Veterans Affairs Medical Center
Correct Main Entrance HVAC
Project Number 636-12-823

4101 Woolworth Avenue
Omaha, Nebraska 68105

GENERAL ARCHITECTURAL NOTES:

1. THE CONTRACTOR SHALL INSPECT THE SITE, STUDY EXISTING CONDITIONS, REVIEW DRAWINGS AND SPECIFICATIONS.
2. CONTRACTOR SHALL ADJUST FOR ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. CONTRACTOR SHALL TAKE ALL MEASUREMENTS FOR THE WORK AND BE RESPONSIBLE FOR SAME. COORDINATE THE WORK AND SHOP DRAWINGS WITH ALL OTHER TRADES AND MAKE ANY NECESSARY OFFSETS TO CONCEAL PIPING AND DUCTWORK AND TO CLEAR EQUIPMENT, STRUCTURAL MEMBERS AND OTHER OBSTRUCTIONS.
4. ALL UTILITIES AND SERVICES SHALL BE KEPT IN CONTINUOUS OPERATION UNLESS WRITTEN PERMISSION IS OTHERWISE GRANTED BY THE OWNER. TEMPORARY ALTERATIONS AND CONNECTIONS REQUIRED BY THIS CONTRACT SHALL BE MADESO THAT ALL BUILDING SERVICES ARE MAINTAINED WITH MINIMUM INTERRUPTION. SCHEDULE ALL ELECTRICAL/MECHANICAL OUTAGES 7 DAYS IN ADVANCE WITH THE OWNER.
5. PROTECT ALL WORK, MATERIALS AND EQUIPMENT. CAP OR PLUG TEMPORARY OPENINGS.
6. ALL OCCUPIED WORK AREAS, BUILDING CORRIDORS AND EXTERIOR AREAS SHALL BE KEPT CLEAR OF DEBRIS. CUTTING AND PATCHING OF EXISTING WALLS, FLOORS OR CEILINGS REQUIRED BY NEW WORK SHALL INCLUDED AS WORKPROVIDED UNDER THIS CONTRACT.
7. CUTTING SHALL BE DONE WITH CARE SO AS NOT TO DAMAGE EXISTING EQUIPMENT, CONNECTIONS, CONTROLS, ETC. DAMAGE CAUSED BY SUCH CUTTING SHALL BE REPLACED OR REPAIRED TO ORIGINAL CONDITION BY CONTRACTOR AT NO COST TO THE OWNER.
8. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, OF THE BEST QUALITY AND FREE FROM DEFECTS.
9. ALL WORK SHALL COMPLY WITH APPLICABLE REGULATIONS, CODES AND ORDINANCES.
10. THE CONTRACTOR SHALL PERFORM ALL TESTS AS SPECIFIED OR AS NECESSARY TO DEMONSTRATE A COMPLETE AND SATISFACTORY INSTALLATION.
11. ALL EXPOSED PENETRATIONS MADE THROUGH EXISTING ROOFS, FLOORS, AND WALLS SHALL BE PATCHED WITH LIKE MATERIALS TO MATCH THE SURROUNDING SURFACES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING MATERIALS RESULTING FROM WORK UNDER THIS CONTRACT AND SHALL RESTORE SUCH TO ITS ORIGINAL CONDITION.
13. INSTALL THE SPECIFIED FIRE STOPPING (SLEEVES, WRAP, CONDUIT, ETC.) AT RATED CONSTRUCTION.
    A. FIRE STOP ALL PENETRATIONS WHERE NEW DEVICES/LINES RELOCATING EXISTING DEVICES/LINES PENETRATING FLOORS, CEILINGS AND OTHER RATED BARRIERS.
    B. FIRE STOP ALL NEWLY CREATED PENETRATIONS WHERE EXISTING DEVICES/LINES PENETRATE FLOOR, CEILINGS AND OTHER RATED BARRIERS.
14. ALL NEW STUD WALLS AND GYPSUM BOARD SHALL EXTEND TO STRUCTURE UNLESS NOTED OTHERWISE.
15. ALL GYPSUM BOARD SHALL BE TYPE 'X' FIRE CODE GYPSUM BOARD OR AS INDICATED ON DRAWINGS.
16. PROVIDE WOOD BLOCKING OR 16 GA. METAL BACKING PLATES IN ALL WALLS TO RECEIVE EQUIPMENT, SHELVING AND ACCESSORIES. DOOR STOPS AND OTHER ITEMS REQUIRING REINFORCEMENT.
17. ALL ITEMS AND DEVICES, SUCH AS COVER PLATES, SWITCH PLATES, CONVENIENCE OUTLETS, DOOR STOPS AND OTHER FINISH HARDWARE, ETC., SHALL BE REMOVED AND REINSTALLED AS PART OF THE REFINISHING OF EXISTING WALLS INDICATED TO REMAIN.
18. THE CONTRACTOR SHALL WORK WITH THE CONDITIONS AS THEY EXIST AT THE SITE. ALL ABOVE CEILING CONDITIONS SHALL BE REVIEWED, AND MODIFICATIONS IDENTIFIED, COORDINATED AND INCORPORATED INTO THE SHOP DRAWING PROCESS. COORDINATE ALL ABOVE CEILING WORK TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM AT NO ADDITIONAL COST TO THE OWNER. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
19. WHEN ALTERING THE BUILDING, IF STRUCTURAL INTEGRITY APPEARS TO BE IN QUESTION CONTRACTOR SHALL NOTIFY OWNER AND ARCHITECT IMMEDIATELY.

HAZARDOUS MATERIAL:

A. SEE OWNER FOR HAZARDOUS MATERIAL REPORT.

B. IF THE CONTRACTOR ENCOUNTERS MATERIAL THAT COULD BE HAZARDOUS, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER IMMEDIATELY FOR DIRECTION.

DESIGN STANDARDS:

VA DESIGN DIRECTIVES AND GUIDELEINES

INTERNATIONAL BUILDING CODE, 2012

NFPA 101, LIFE SAFETY CODE, 2012

NFPA NATIONAL FIRE CODES

NATIONAL ELECTRICAL CODE

NATIONAL STANDARD PLUMBING CODE

ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS (ABAAS) AND VA SUPPLEMENT BARRIER FREE DESIGN GUIDE

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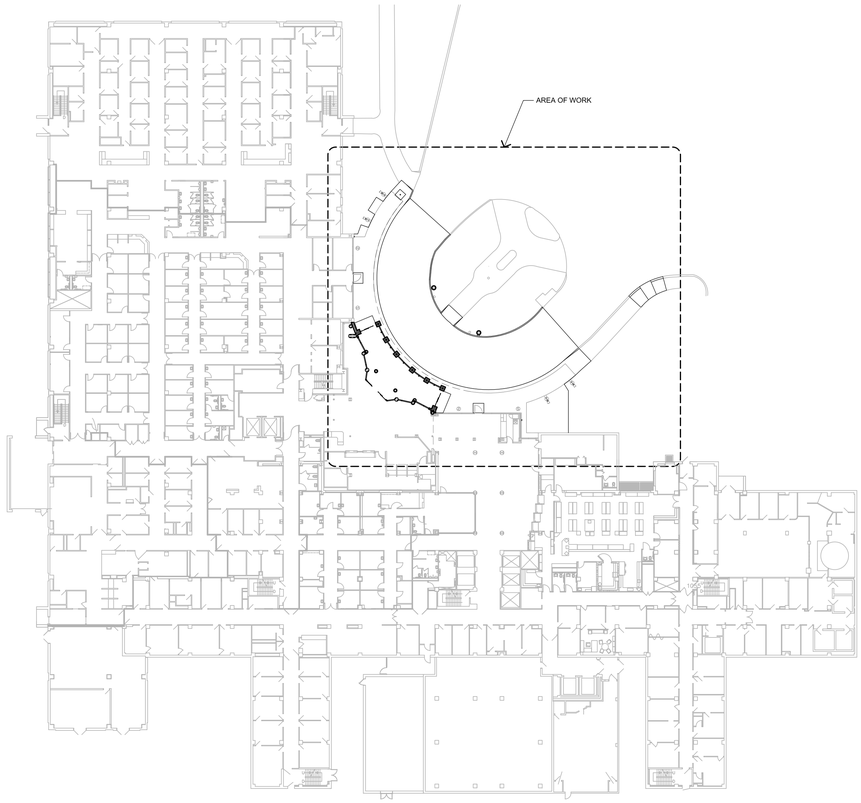

BUILDING #1, 1st FLOOR KEY PLAN

PLAN NORTH

Revisions: Date

REGISTERED PROFESSIONAL ARCHITECT CALVIN L. HINZ A-1793 STATE OF NEBRASKA

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Drawing Title: COVER SHEET	Project Title: CORRECT MAIN ENTRANCE HVAC		Project Number: 636-12-823	Office of Construction and Facilities Management
			Building Number: ONE	
	Location: VAMC Omaha Nebraska		Drawing Number: A0.1	
CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)	Date: MAY 10, 2013	Checked: CLH	Drawn:	Dwg. 1 of 34

Department of Veterans Affairs

VA FORM 08-6231

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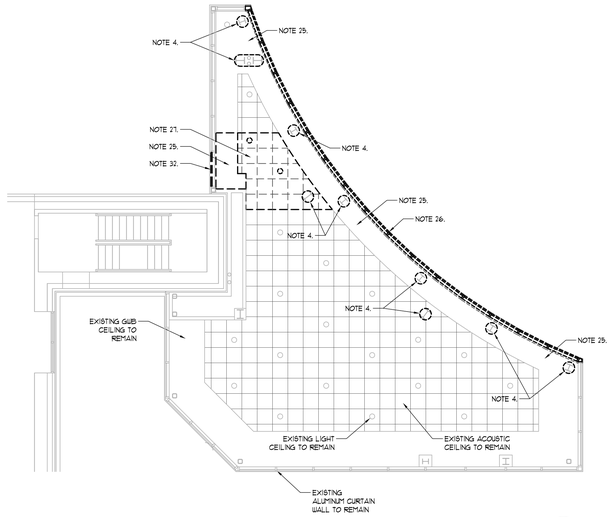


3 A2.1 DEMOLITION CEILING PLAN - CLERESTORY
SCALE: 1/8" = 1'-0"

PLAN NORTH

LEGEND:

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- 1 HOUR RATED CONSTRUCTION PARTITION

INFECTION CONTROL NOTES:

INFECTION CONTROL WORK TO TAKE PLACE PRIOR TO DEMOLITION.

A. PROVIDE NEGATIVE AIR MACHINE WITH HEPA FILTER IN ALL DEMOLITION AREAS.

B. CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF DUST DURING THE ENTIRE CONSTRUCTION SCHEDULE. SEE SPECIFICATIONS FOR ADDITIONAL DUST CONTROL MEASURES.

DEMOLITION GENERAL NOTES:

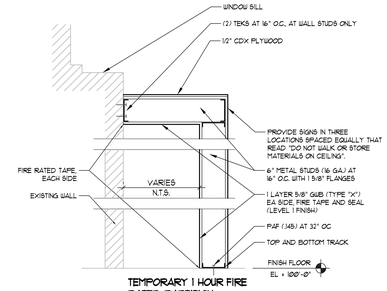
A. DRAWINGS BASED ON LIMITED FIELD VERIFICATION. NOT ALL REMOVALS ARE NOTED. REMOVE EXISTING WORK AS REQUIRED TO COMPLY WITH DESIGN INTENT.

B. SEE STRUCTURAL DWG'S FOR DEPTH OF REMOVALS AT FOUNDATIONS AND FOOTINGS.

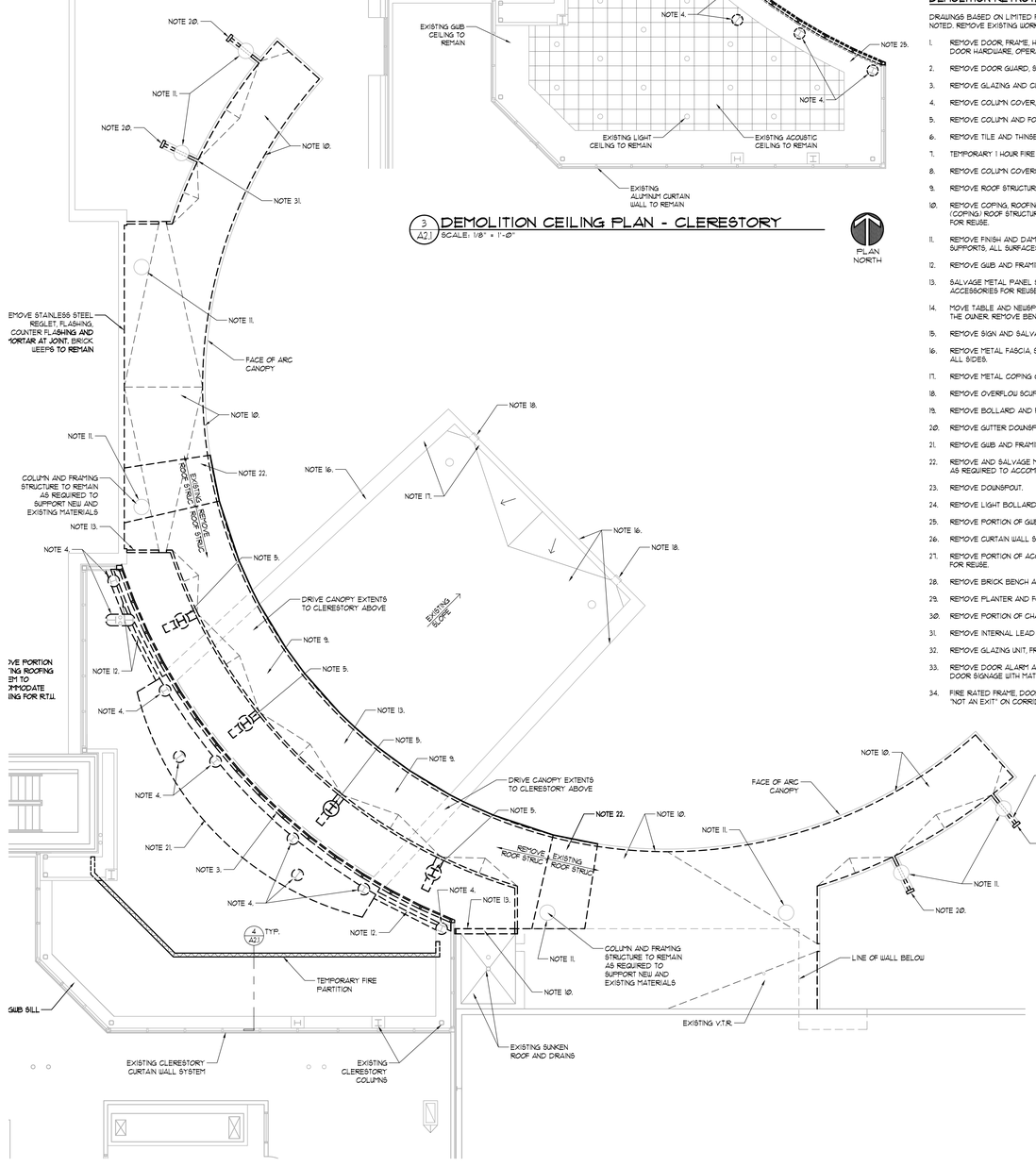
DEMOLITION KEYNOTES:

DRAWINGS BASED ON LIMITED FIELD VERIFICATION. NOT ALL REMOVALS ARE NOTED. REMOVE EXISTING WORK AS REQUIRED TO COMPLY WITH DESIGN INTENT.

1. REMOVE DOOR, FRAME, HARDWARE AND OPERATOR. SALVAGE ALL DOOR HARDWARE, OPERATOR AND RELATED COMPONENTS FOR REUSE.
2. REMOVE DOOR GUARD. SALVAGE FOR REUSE.
3. REMOVE GLAZING AND CURTAIN WALL SYSTEM.
4. REMOVE COLUM'N COVER, COLUMN(S) TO REMAIN.
5. REMOVE COLUM'N AND FOUNDATION.
6. REMOVE TILE AND THINSET. SEE FINISH PLAN FOR EXTENT.
7. TEMPORARY 1 HOUR FIRE RATED CONSTRUCTION WALL. SEE 4/A2.1.
8. REMOVE COLUM'N COVERS AND COLUMNS.
9. REMOVE ROOF STRUCTURE.
10. REMOVE COPING, ROOFING SYSTEM, WOOD CANT AND BLOCKING (COPING) ROOF STRUCTURE. METAL PANELS TO REMAIN. SALVAGE TRIM FOR REUSE.
11. REMOVE FINISH AND DAMAGED SUBSTRATE FROM EXISTING COLUM'N AND SUPPORTS, ALL SURFACES.
12. REMOVE GUB AND FRAMING, BEAM TO REMAIN.
13. SALVAGE METAL PANEL SOFFIT, FASCIA AND OTHER PREFINISHED METAL ACCESSORIES FOR REUSE.
14. MOVE TABLE AND NEWSPAPER DISPENSER TO AN AREA DESIGNATED BY THE OWNER. REMOVE BENCH'ES) AND DISPOSE.
15. REMOVE SIGN AND SALVAGE FOR REUSE.
16. REMOVE METAL FASCIA, SOFFIT PANELS, TRIM, MOLDING AND SUBSTRATE ALL SIDES.
17. REMOVE METAL COPING ON DRIVE CANOPY ROOF.
18. REMOVE OVERFLOW SCUPPER.
19. REMOVE BOLLARD AND FOUNDATION.
20. REMOVE GUTTER DOWNSPOUT AND CORRUGATED PIPING.
21. REMOVE GUB AND FRAMING WALLS AND CEILINGS.
22. REMOVE AND SALVAGE METAL PANELS, FASCIA, TRIM, ETC IN THIS AREA AS REQUIRED TO ACCOMMODATE NEW WORK.
23. REMOVE DOWNSPOUT.
24. REMOVE LIGHT BOLLARDS AND FOUNDATION.
25. REMOVE PORTION OF GUB TO ACCOMMODATE NEW WORK.
26. REMOVE CURTAIN WALL SYSTEM.
27. REMOVE PORTION OF ACOUSTIC GRID AND PADS. SALVAGE PANELS FOR REUSE.
28. REMOVE BRICK BENCH AND FOUNDATION.
29. REMOVE PLANTER AND FOUNDATION.
30. REMOVE PORTION OF CHAIR RAIL AND SALVAGE FOR REUSE.
31. REMOVE INTERNAL LEAD GUTTER AND COPING.
32. REMOVE GLAZING UNIT, FRAME TO REMAIN.
33. REMOVE DOOR ALARM AND SALVAGE FOR REUSE. COVER EXISTING DOOR SIGNAGE WITH MATERIAL THAT WILL NOT DAMAGE SIGNS.
34. FIRE RATED FRAME, DOOR AND HARDWARE. PROVIDE LOCK AND SIGN "NOT AN EXIT" ON CORRIDOR SIDE.

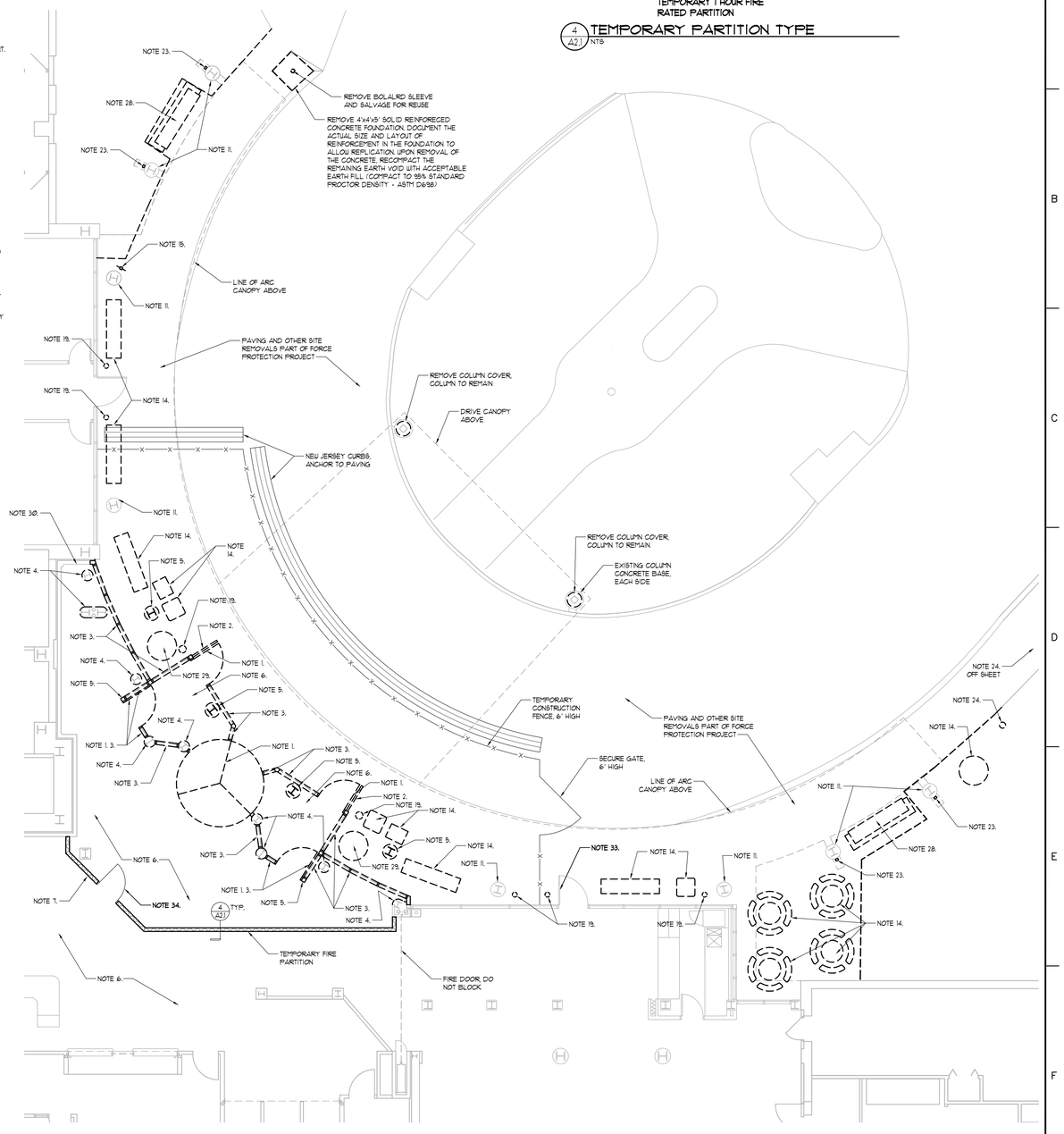


4 A2.1 TEMPORARY PARTITION TYPE
NTS



2 A2.1 DEMOLITION CEILING/ ROOF PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH



1 A2.1 DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH

Revisions:	Date

PROFESSIONAL ARCHITECT REGISTERED CALVIN L. HINZ A-1793 STATE OF NEBRASKA

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Drawing Title: DEMOLITION PLANS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A2.1

Dwg. 2 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

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VA FORM 08-6231

LEGEND:

EXISTING CONSTRUCTION TO REMAIN

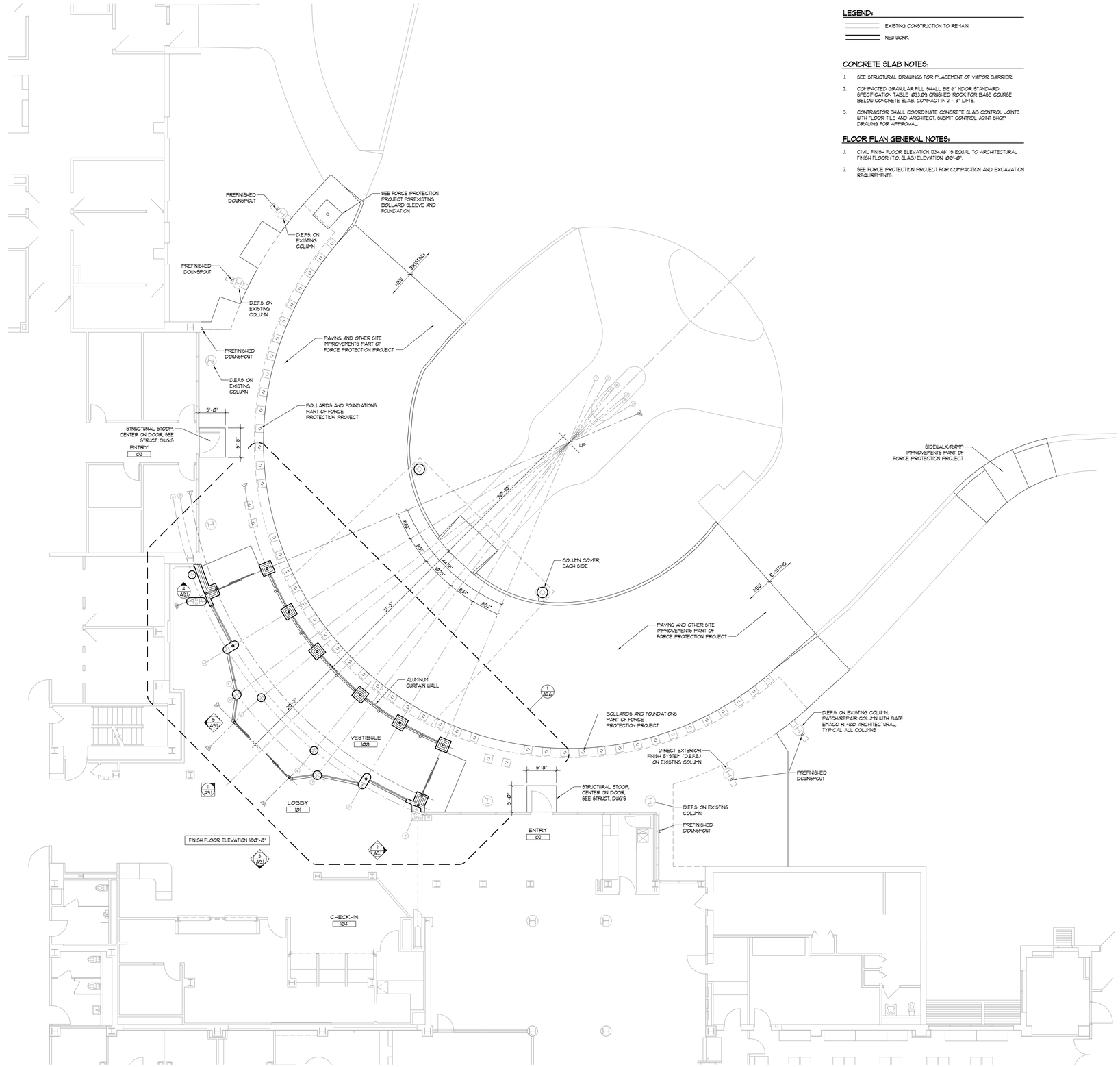
NEW WORK

CONCRETE SLAB NOTES:

1. SEE STRUCTURAL DRAWINGS FOR PLACEMENT OF VAPOR BARRIER.
2. COMPACTED GRANULAR FILL SHALL BE 6" NDOR STANDARD SPECIFICATION TABLE 1033.09 CRUSHED ROCK FOR BASE COURSE BELOW CONCRETE SLAB. COMPACT IN 2 - 3" LIFTS.
3. CONTRACTOR SHALL COORDINATE CONCRETE SLAB CONTROL JOINTS WITH FLOOR TILE AND ARCHITECT. SUBMIT CONTROL JOINT SHOP DRAWING FOR APPROVAL.

FLOOR PLAN GENERAL NOTES:

1. CIVIL FINISH FLOOR ELEVATION 1234.48' IS EQUAL TO ARCHITECTURAL FINISH FLOOR (T.O. SLAB) ELEVATION 100'-0".
2. SEE FORCE PROTECTION PROJECT FOR COMPACTION AND EXCAVATION REQUIREMENTS.



1 A2.3 FLOOR PLAN
SCALE: 1/8" = 1'-0"

FLAN NORTH

Revisions:	Date

ARCHITECT/ENGINEERS:

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Drawing Title	FLOOR PLAN
Project Title	CORRECT MAIN ENTRANCE HVAC
Location	VAMC Omaha Nebraska
Project Number	636-12-823
Building Number	ONE
Drawing Number	A2.3
Dwg. 3 of 34	
Date	MAY 10, 2013
Checked	CLH
Drawn	

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Office of Construction and Facilities Management

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VA FORM 08-6231

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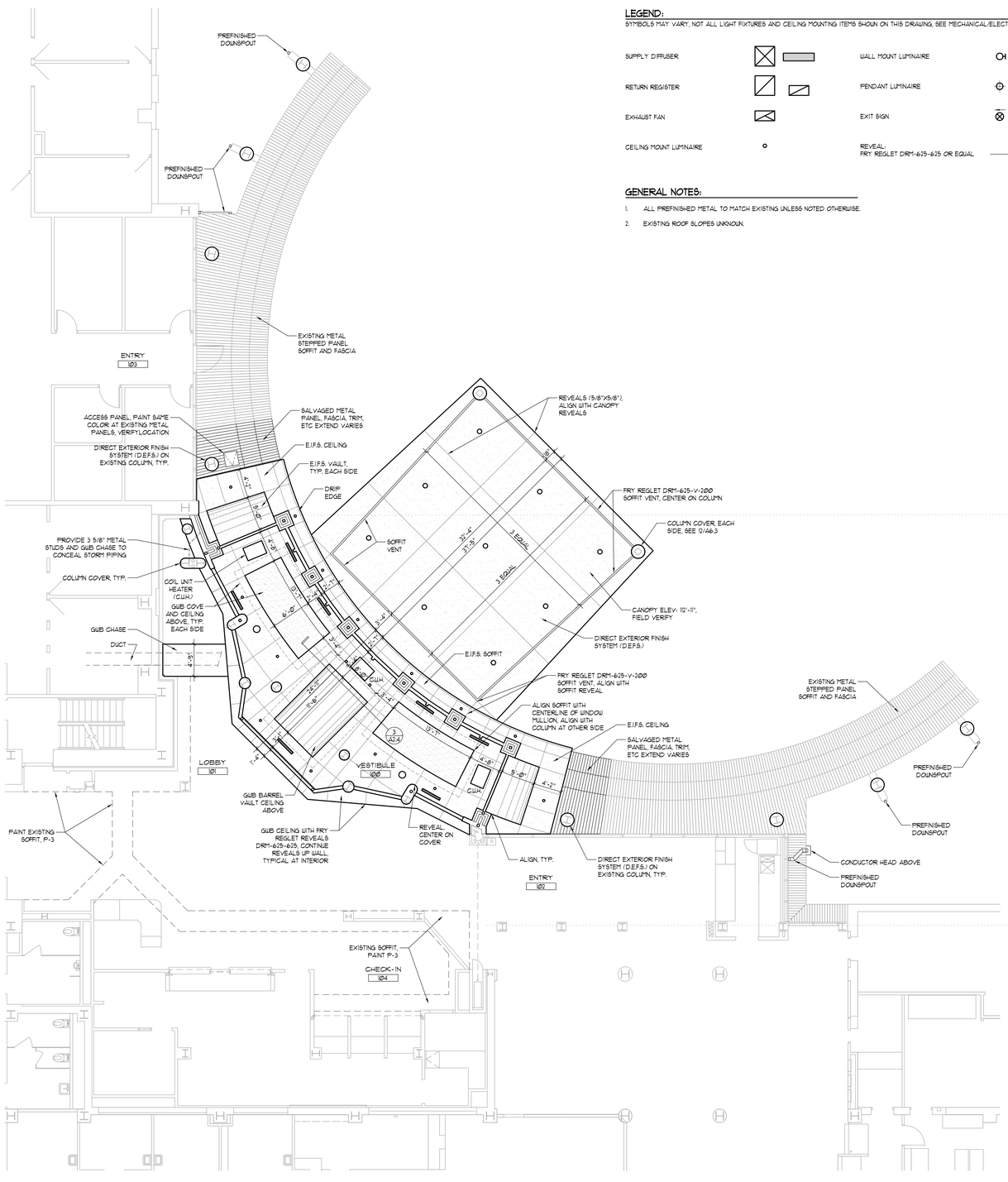
LEGEND:

SYMBOLS MAY VARY, NOT ALL LIGHT FIXTURES AND CEILING MOUNTING ITEMS SHOWN ON THIS DRAWING. SEE MECHANICAL/ELECTRICAL DRAWINGS.

SUPPLY DIFFUSER		WALL MOUNT LUMINAIRE	
RETURN REGISTER		PENDANT LUMINAIRE	
EXHAUST FAN		EXIT SIGN	
CEILING MOUNT LUMINAIRE		REVEAL, FRY REGLET DRM-625-625 OR EQUAL	

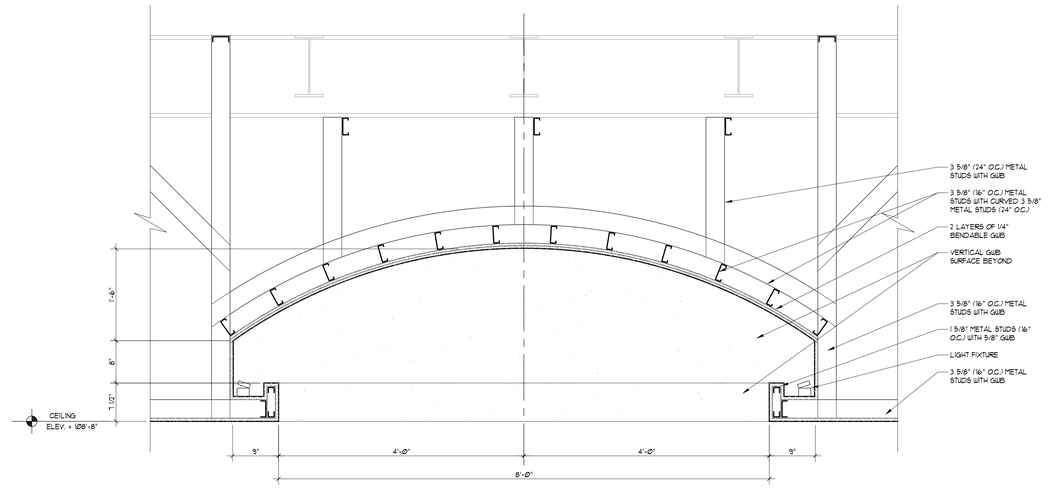
GENERAL NOTES:

1. ALL PREFINISHED METAL TO MATCH EXISTING UNLESS NOTED OTHERWISE.
2. EXISTING ROOF SLOPES UNKNOWN.

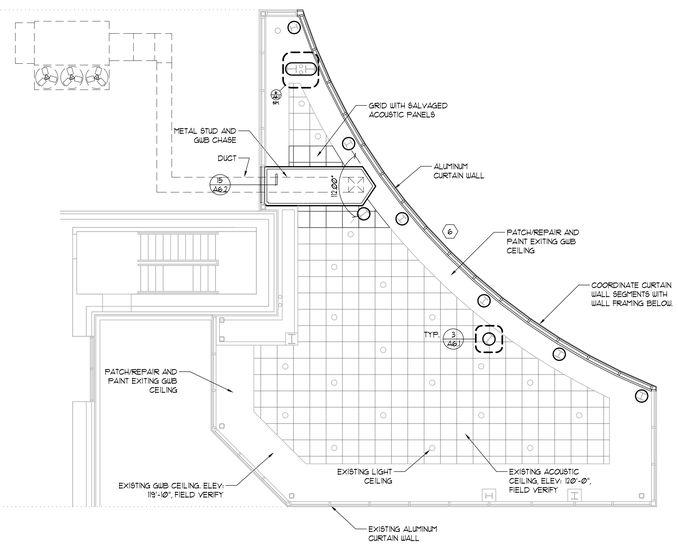


2 A2.4 CEILING PLAN - LOW
SCALE: 1/8" = 1'-0"

PLAN NORTH



3 A2.4 DETAIL
SCALE: 1" = 1'-0"



1 A2.4 CEILING PLAN - CLERESTORY
SCALE: 1/8" = 1'-0"

PLAN NORTH

Revisions:	Date

REGISTERED PROFESSIONAL ARCHITECT CALVIN L. HINZ A-1793 STATE OF NEBRASKA

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Drawing Title: REFLECTED CEILING PLANS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A2.4

Dwg. 4 of 34

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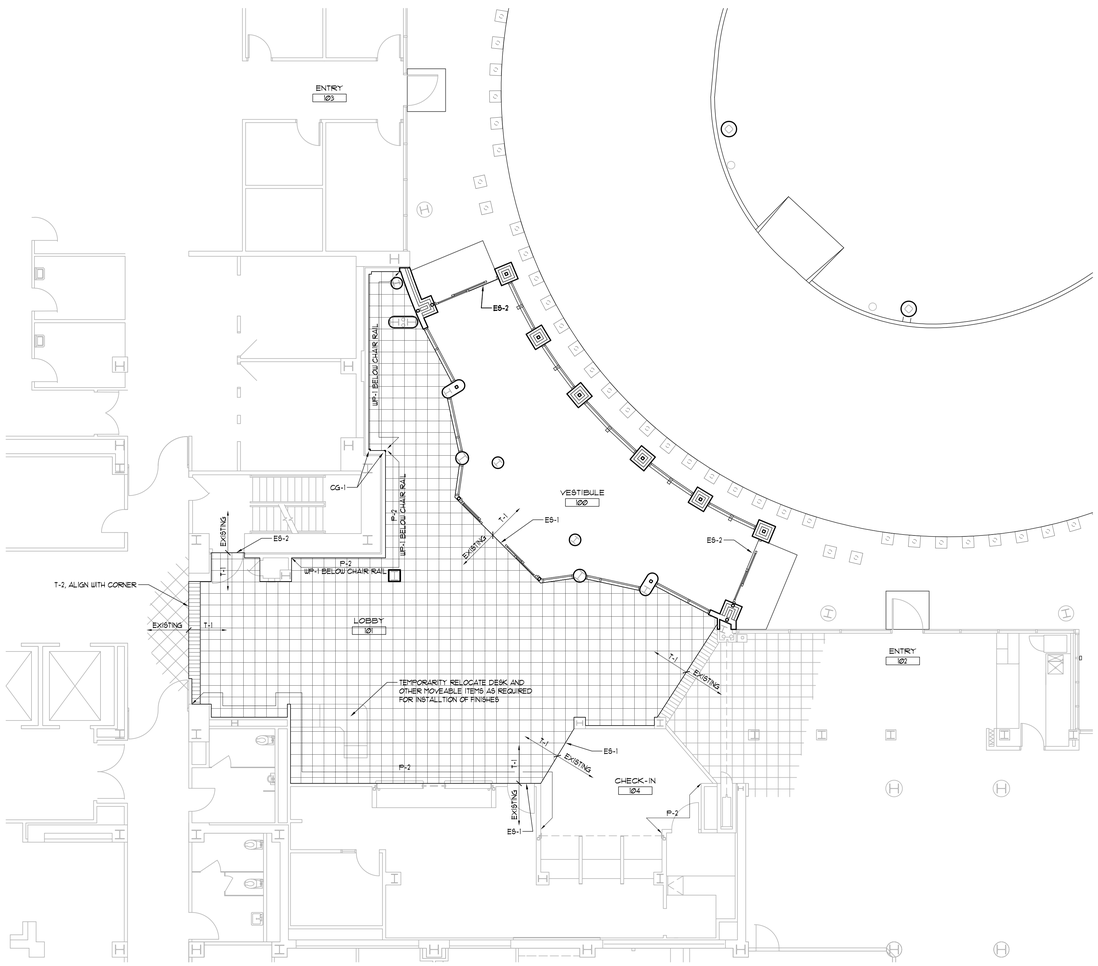
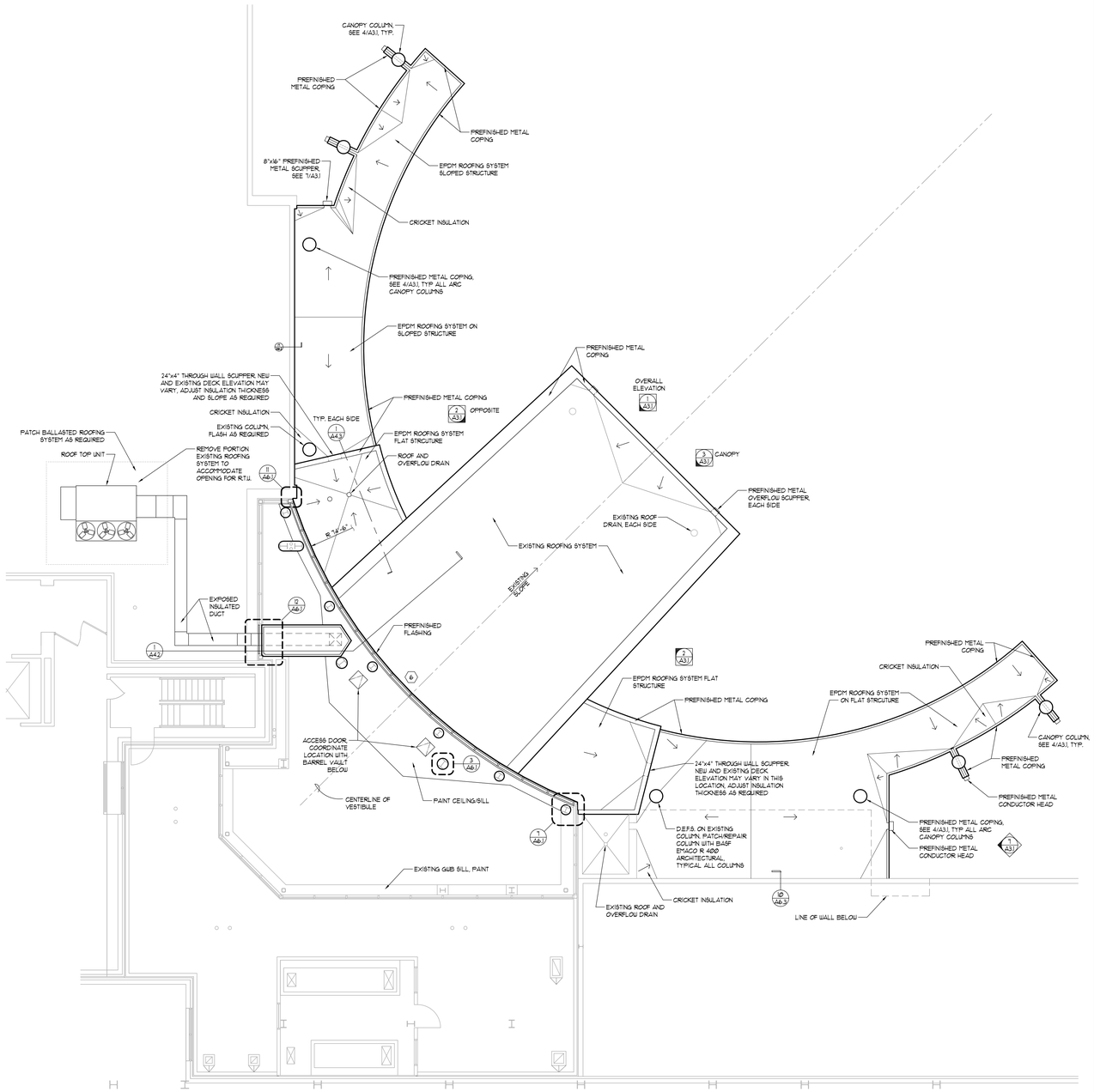
VA FORM 08-6231



2 A2.5 FINISH PLAN
SCALE: 1/8" = 1'-0"

FLAN NORTH



1 A2.5 ROOF PLAN
SCALE: 1/8" = 1'-0"

FLAN NORTH

Revisions:	Date

REGISTERED PROFESSIONAL ENGINEER CALVIN L. HINZ A-1793 STATE OF NEBRASKA

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Drawing Title: ROOF AND FINISH PLANS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A2.5

Dwg. 5 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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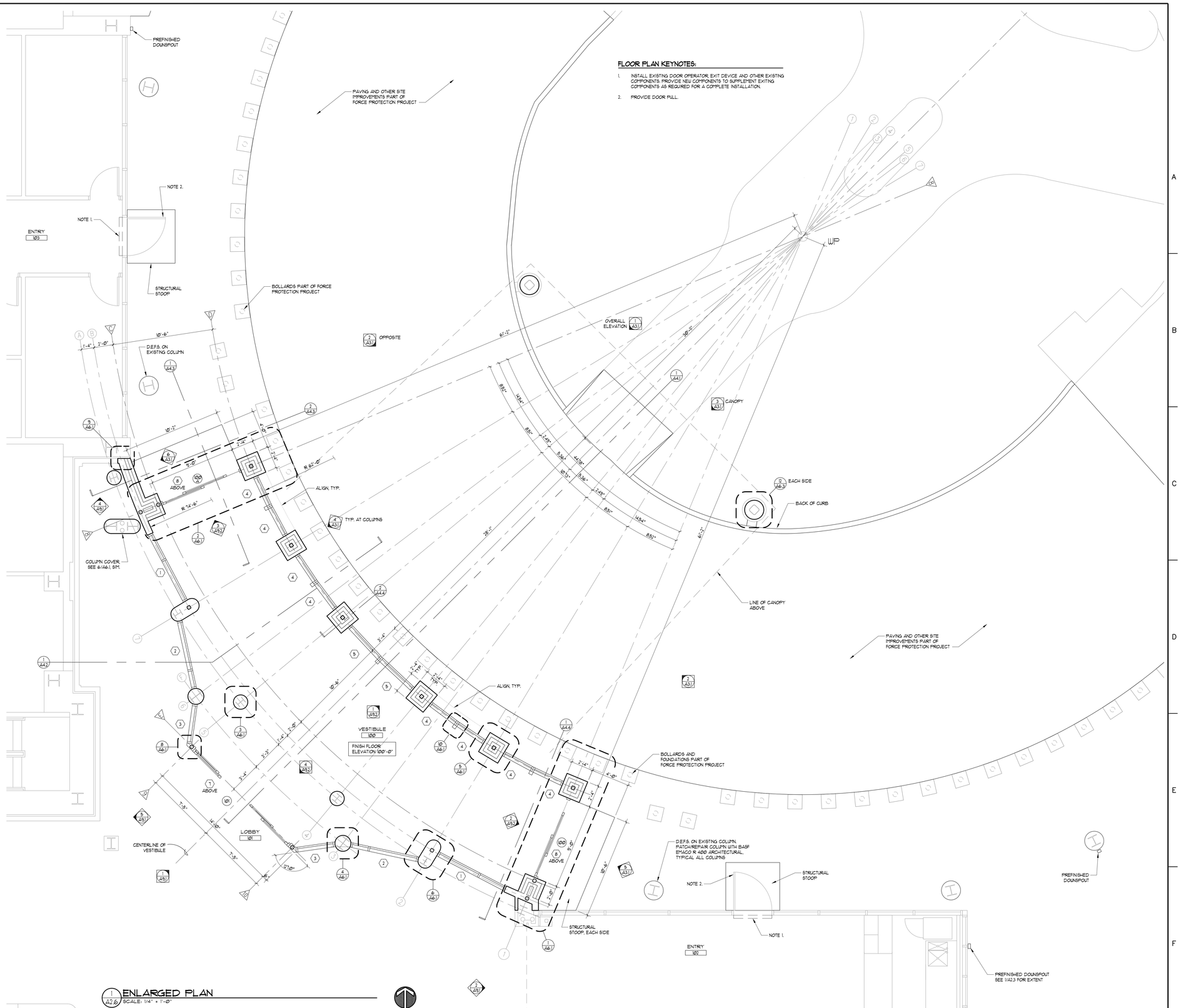
FLOOR PLAN KEYNOTES:

1. INSTALL EXISTING DOOR OPERATOR, EXIT DEVICE AND OTHER EXISTING COMPONENTS. PROVIDE NEW COMPONENTS TO SUPPLEMENT EXITING COMPONENTS AS REQUIRED FOR A COMPLETE INSTALLATION.
2. PROVIDE DOOR PULL.



1/A2.6 ENLARGED PLAN
SCALE: 1/4" = 1'-0"

ARCHITECT/ENGINEERS:

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Revisions: Date

Drawing Title: ENLARGED FLOOR PLAN

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A2.6

Dwg. 6 of 34

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Department of Veterans Affairs

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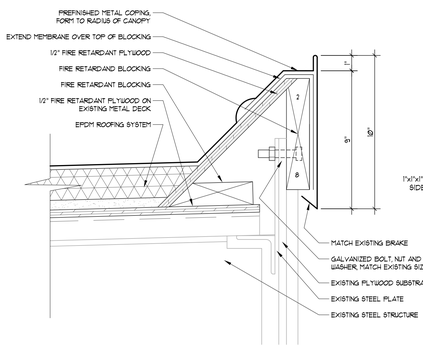
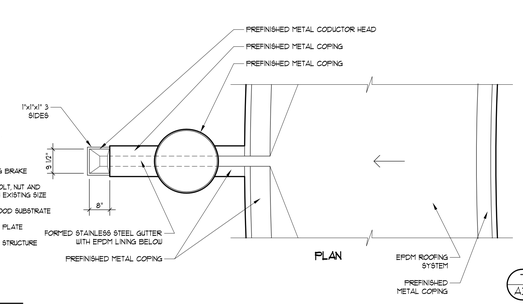
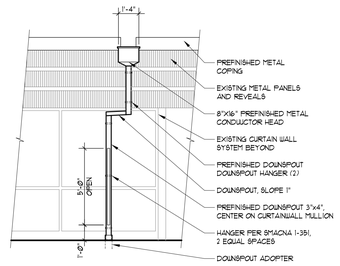
VA FORM 08-6231



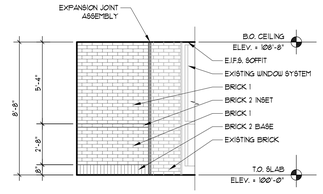
4A A3.1 DETAIL
SCALE: 3" = 1'-0"



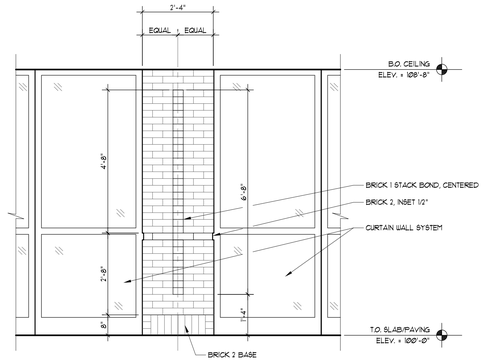
PLAN



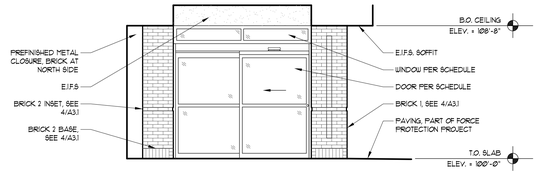
7 A3.1 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



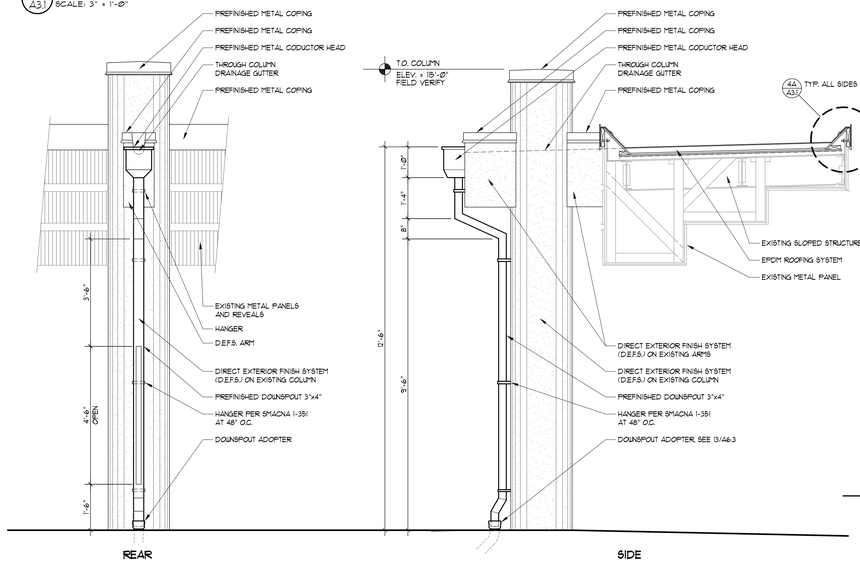
6 A3.1 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



4 A3.1 EXTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



5 A3.1 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



4 A3.1 ELEVATION/SECTION TYPICAL AT ARC CANOPY COLUMNS
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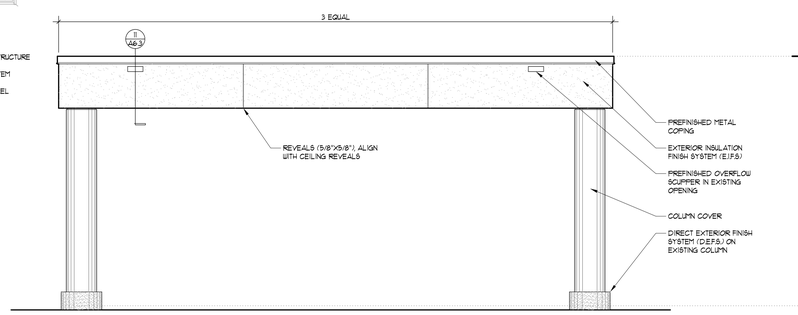
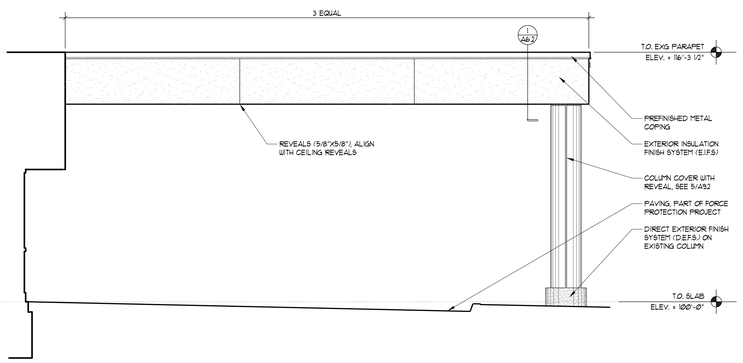
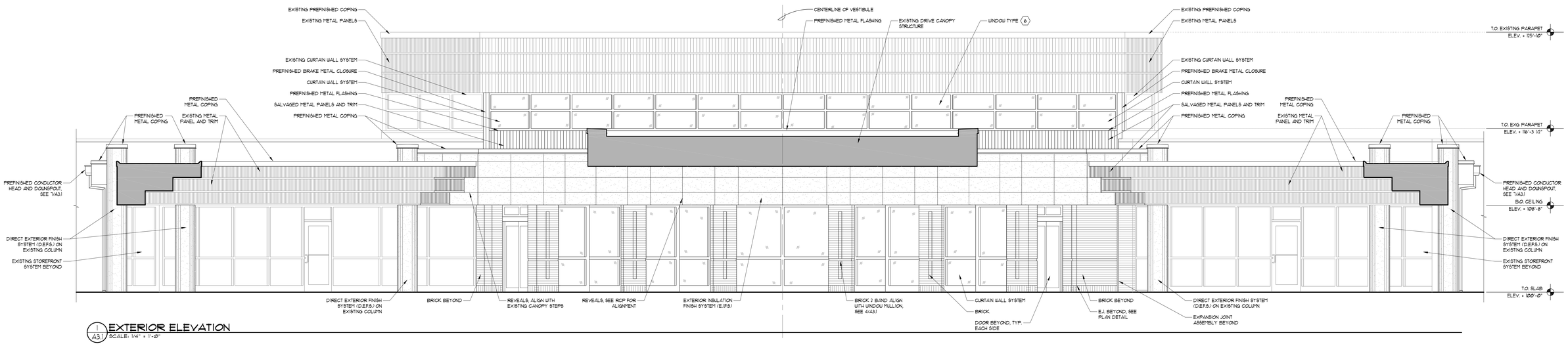


3 A3.1 EXTERIOR ELEVATION - NORTHEAST
SCALE: 1/4" = 1'-0"



2 A3.1 EXTERIOR ELEVATION - NORTHWEST
SCALE: 1/4" = 1'-0"
SOUTHEAST OPPOSITE



1 A3.1 EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

Revisions:	Date

REGISTERED PROFESSIONAL ARCHITECT CALVIN L. HINZ A-1793 STATE OF NEBRASKA

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Drawing Title: EXTERIOR ELEVATIONS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A3.1

Dwg. 7 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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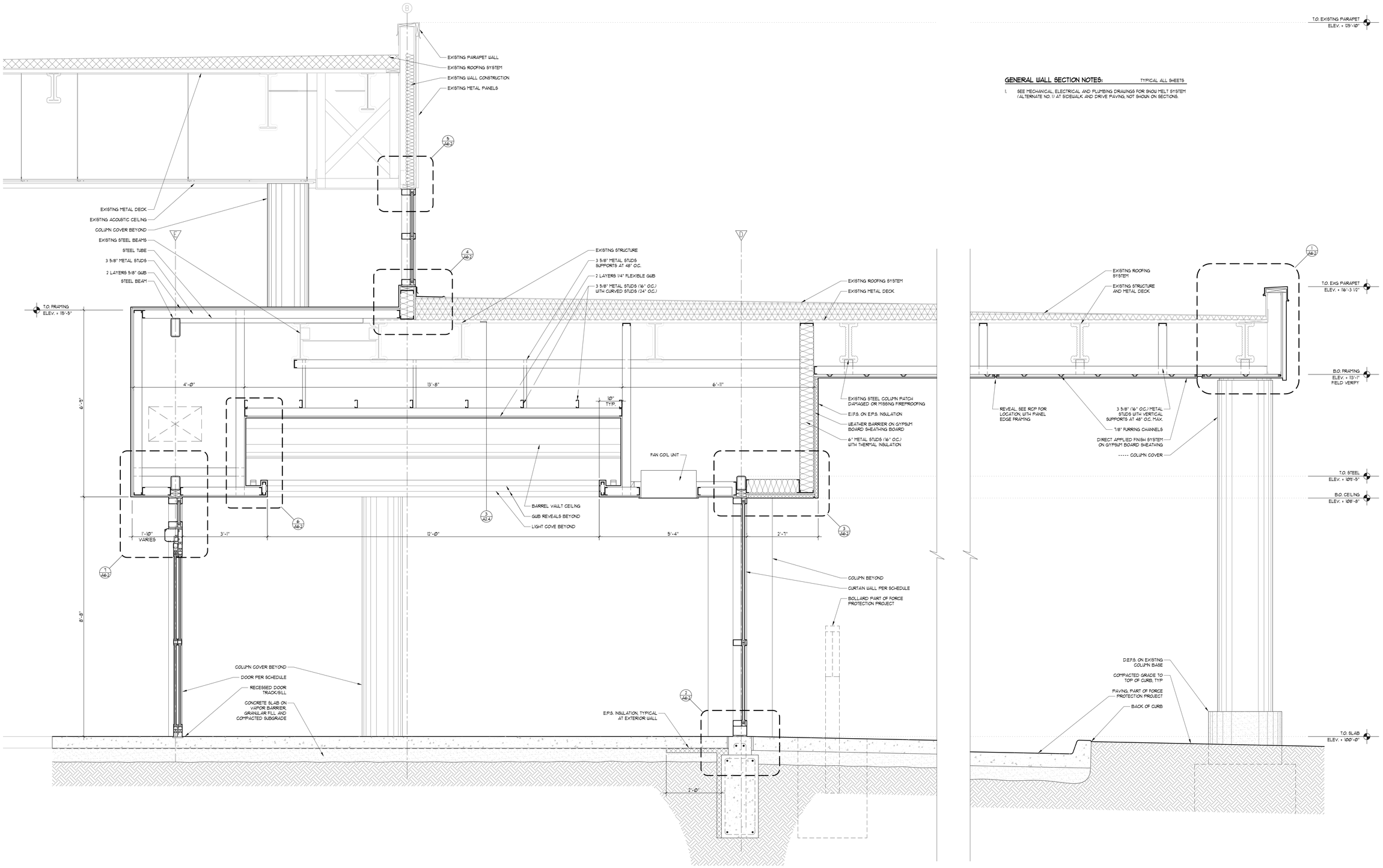

GENERAL WALL SECTION NOTES:

TYPICAL ALL SHEETS

1. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SNOW MELT SYSTEM (ALTERNATE NO. 1) AT SIDEWALK AND DRIVE PAVING, NOT SHOWN ON SECTIONS.

1 / A4.1 WALL SECTION
SCALE: 3/4" = 1'-0"

Revisions:	Date

CALVIN L. HINZ A-1793 REGISTERED PROFESSIONAL ARCHITECT STATE OF NEBRASKA

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Drawing Title: WALL SECTIONS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A4.1

Dwg. 8 of 34

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Department of Veterans Affairs

VA FORM 08-6231

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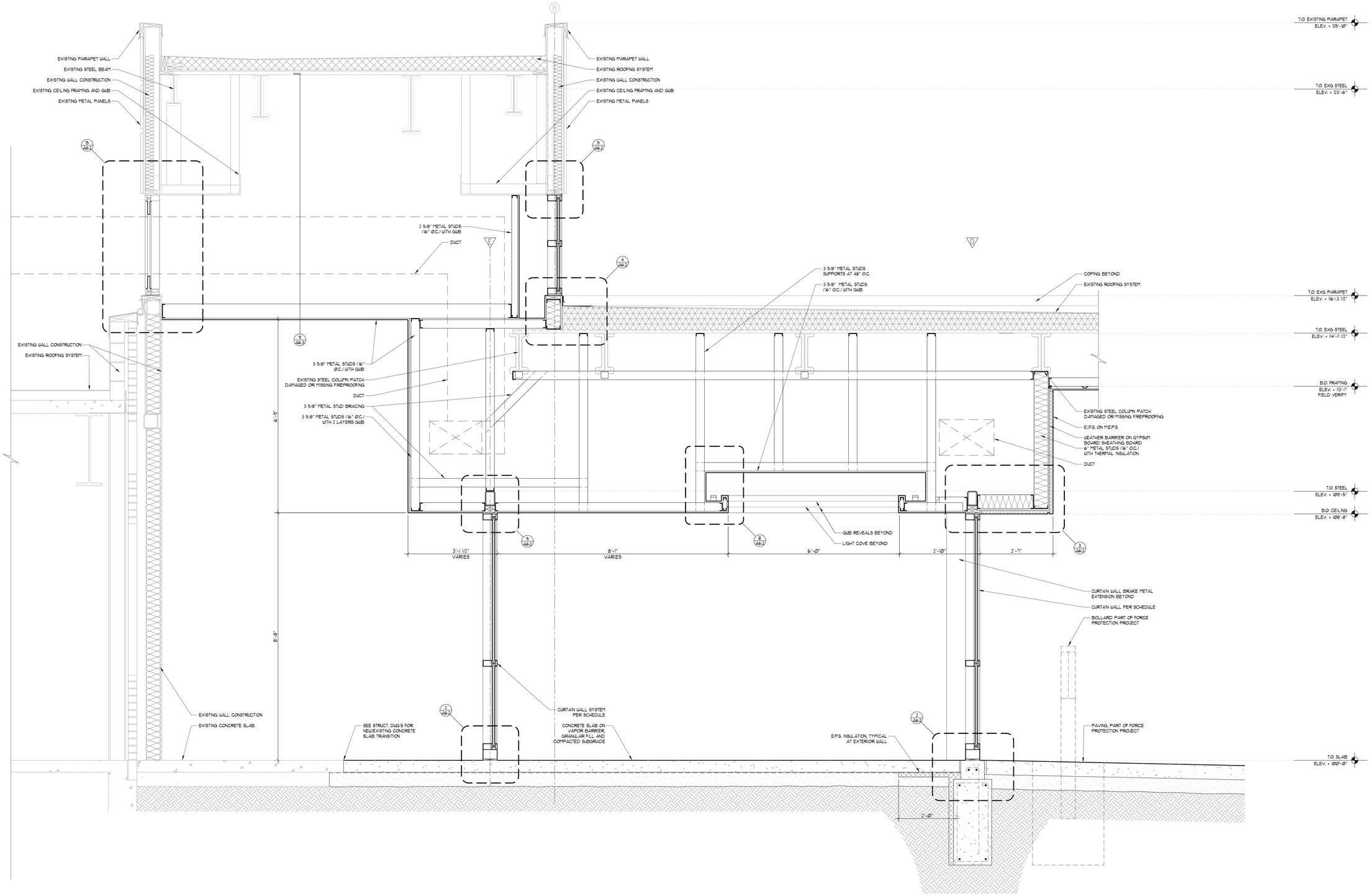

1 A4.2 WALL SECTION
SCALE: 3/4" = 1'-0"

Revisions:	Date

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Drawing Title: WALL SECTIONS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A4.2

Dwg. 9 of 34

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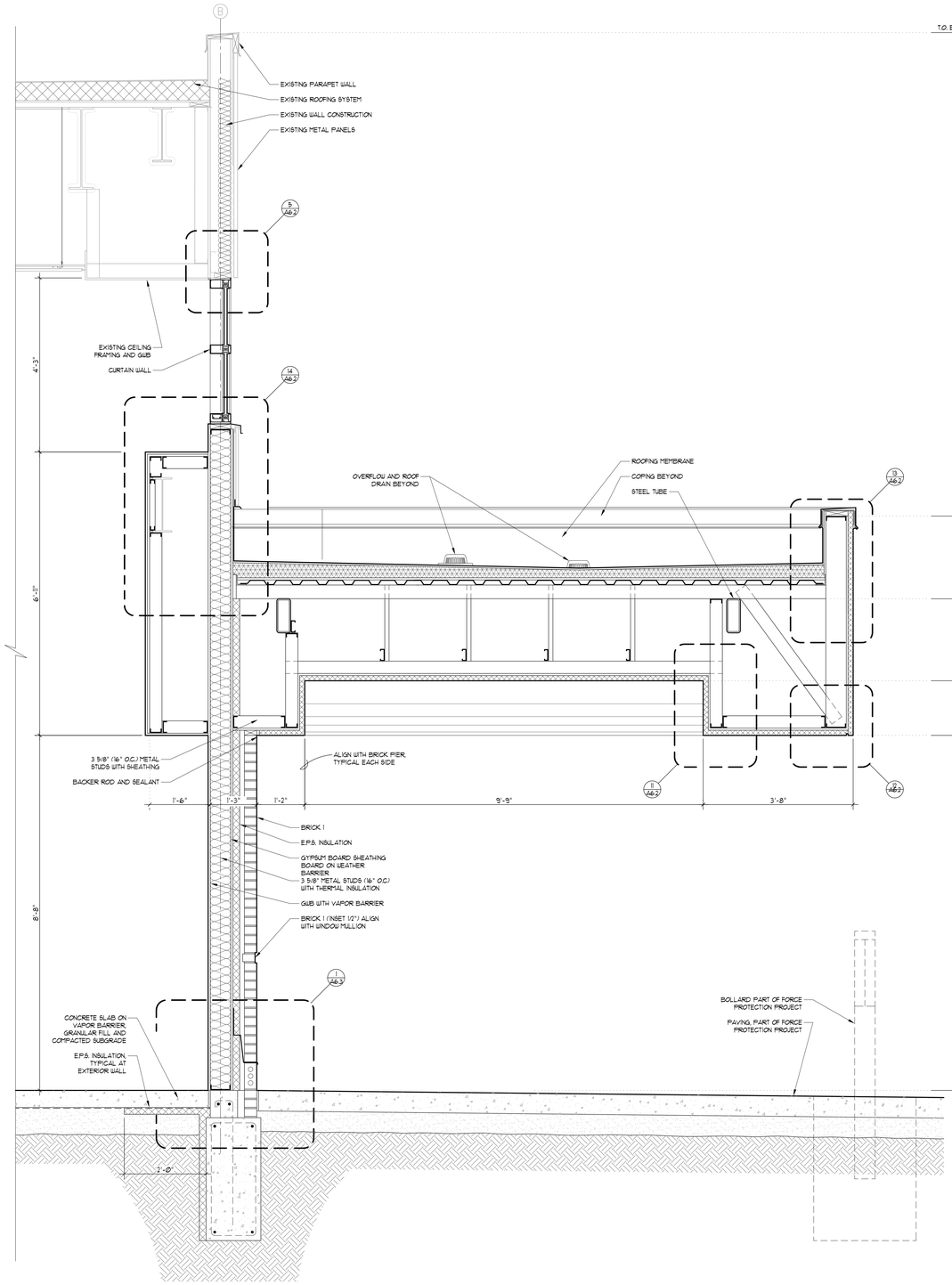

2 A4.3 WALL SECTION
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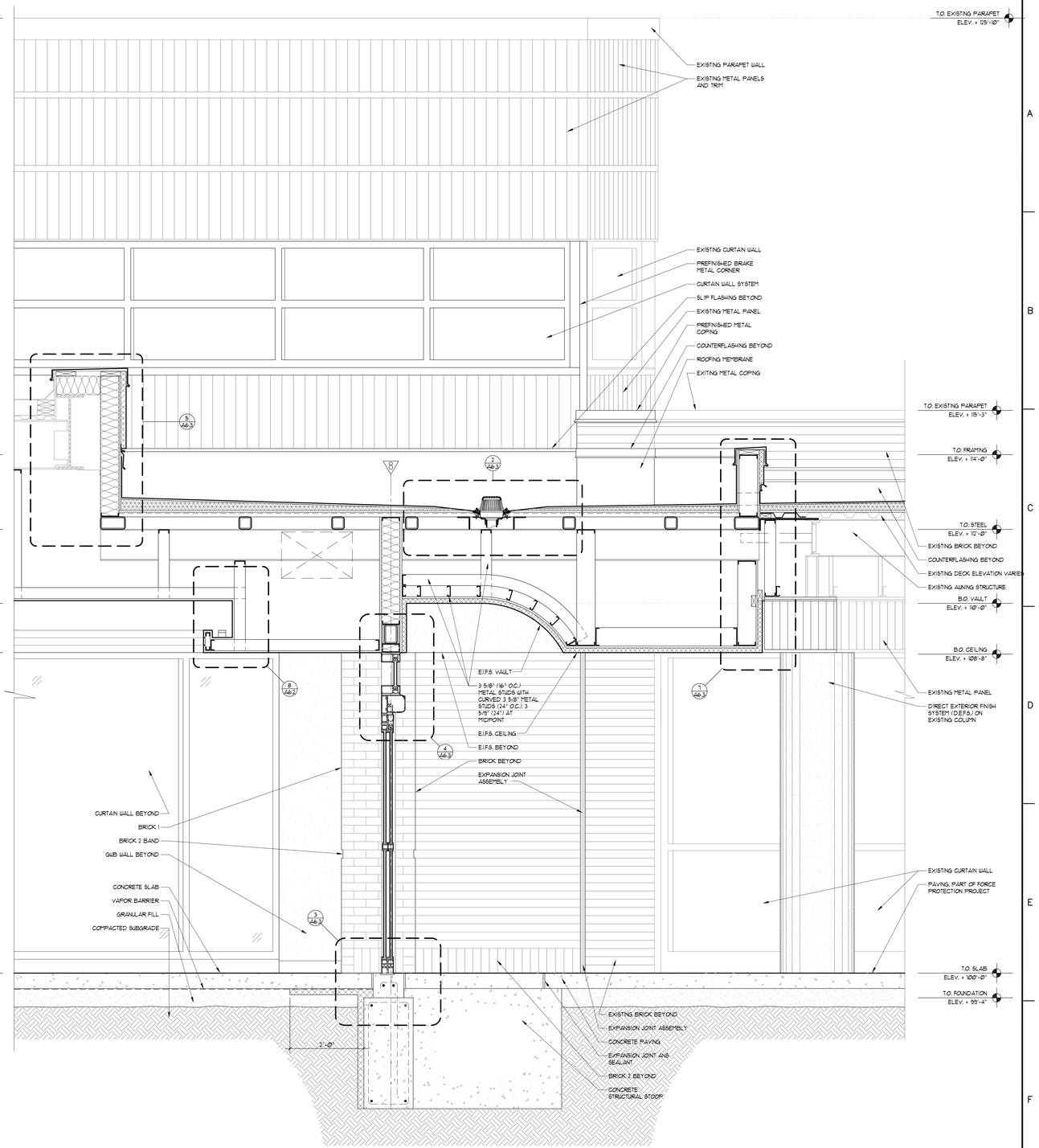

1 A4.3 WALL SECTION
SCALE: 3/4" = 1'-0"

Revisions:	Date

CALVIN L. HINZ A-1793 REGISTERED PROFESSIONAL ARCHITECT STATE OF NEBRASKA

ARCHITECT/ENGINEERS:

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Drawing Title: WALL SECTIONS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A4.3

Dwg. 10 of 34

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Department of Veterans Affairs

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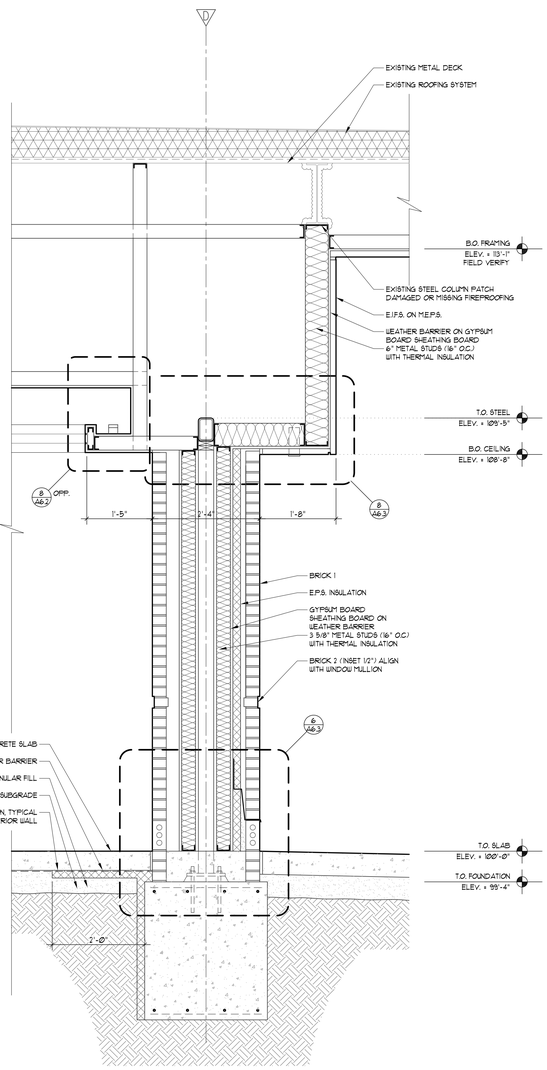

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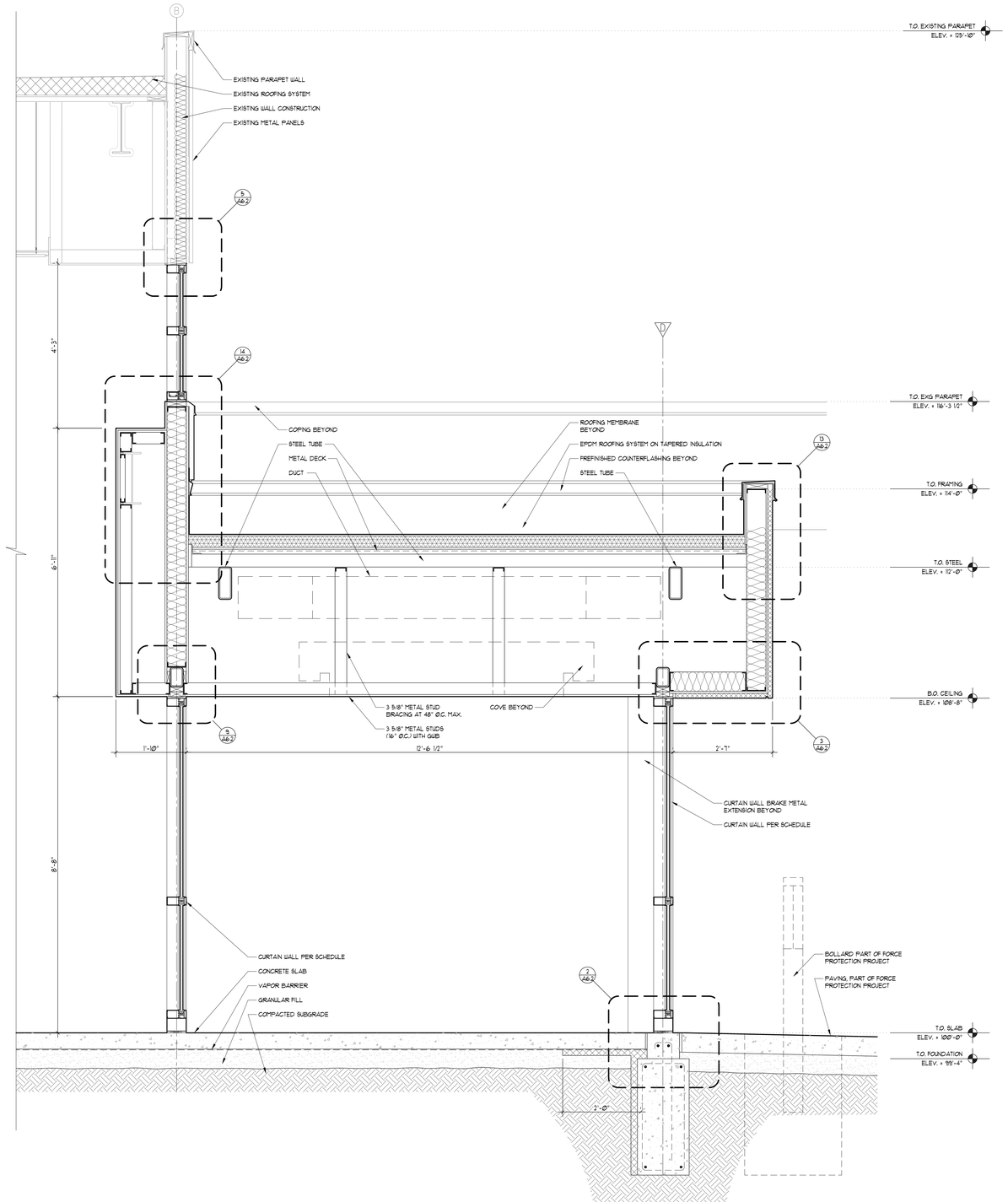

1 A4.4 WALL SECTION
SCALE: 3/4" = 1'-0"

Revisions:	Date

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Drawing Title: WALL SECTIONS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date	Checked	Drawn
MAY 10, 2013	CLH	

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A4.4

Dwg. 11 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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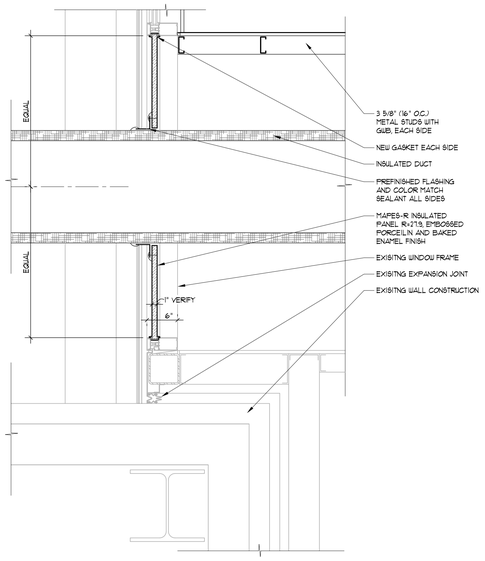

12 A6.1 PLAN DETAIL
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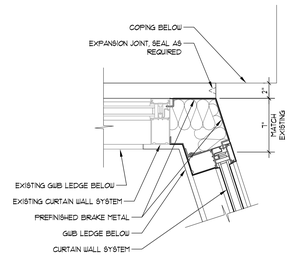

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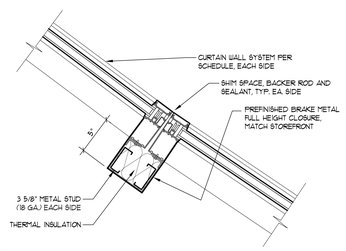

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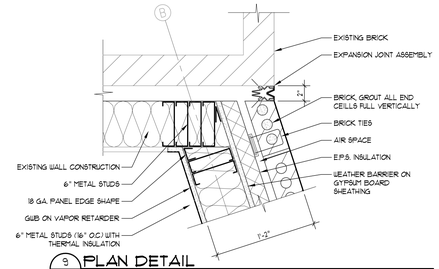

9 A6.1 PLAN DETAIL
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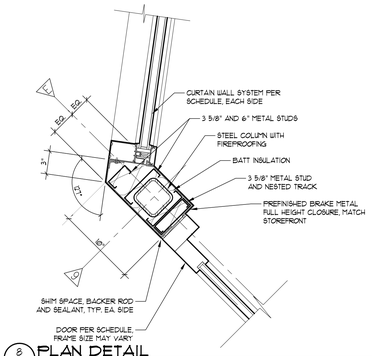

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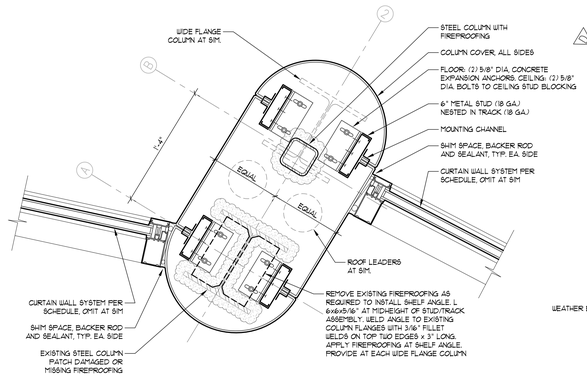

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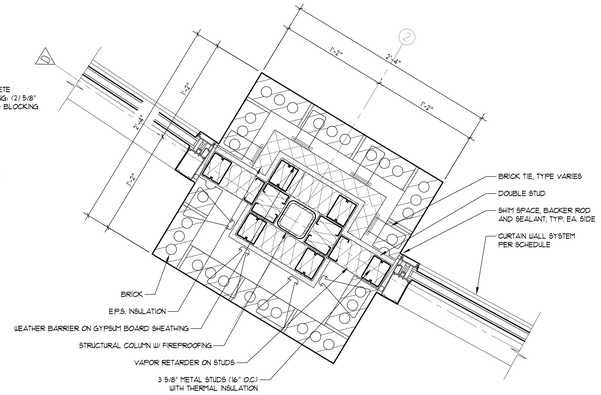

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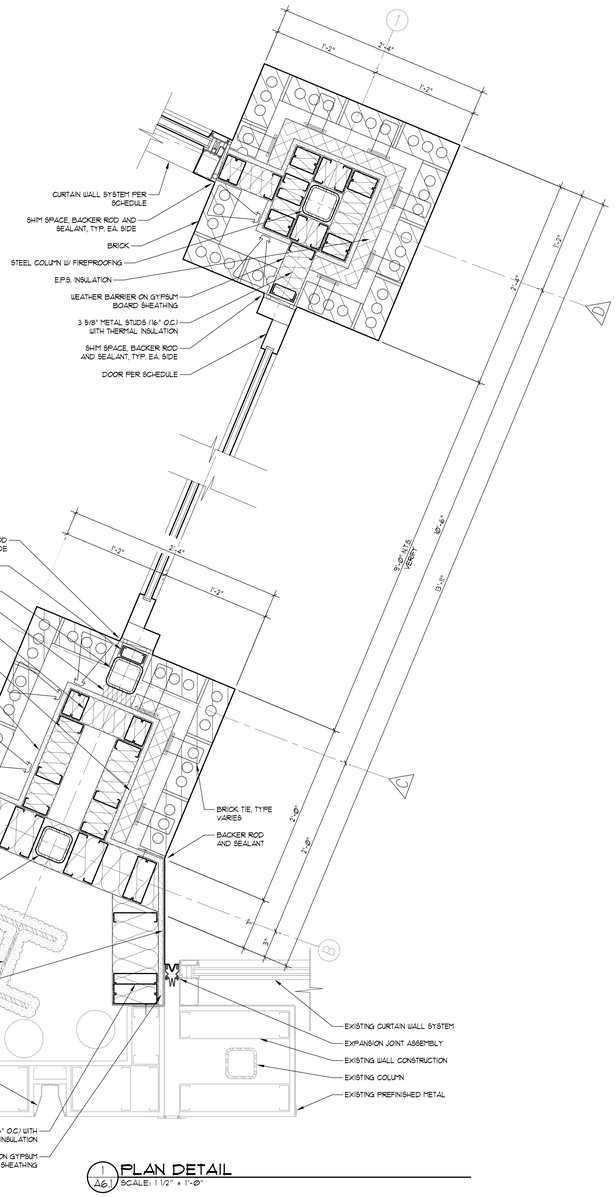

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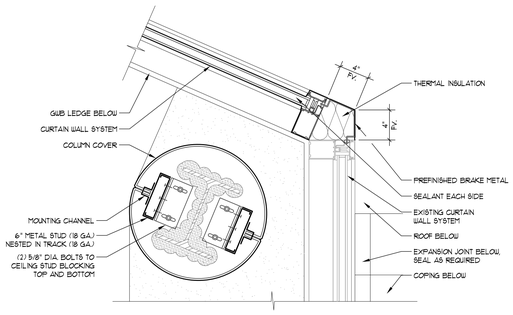

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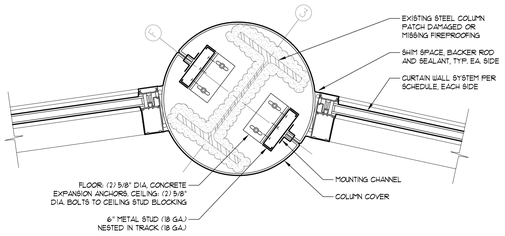

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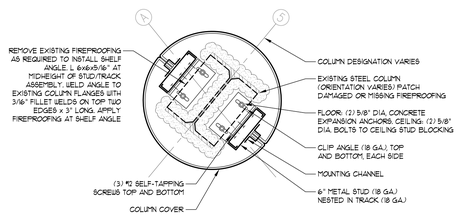

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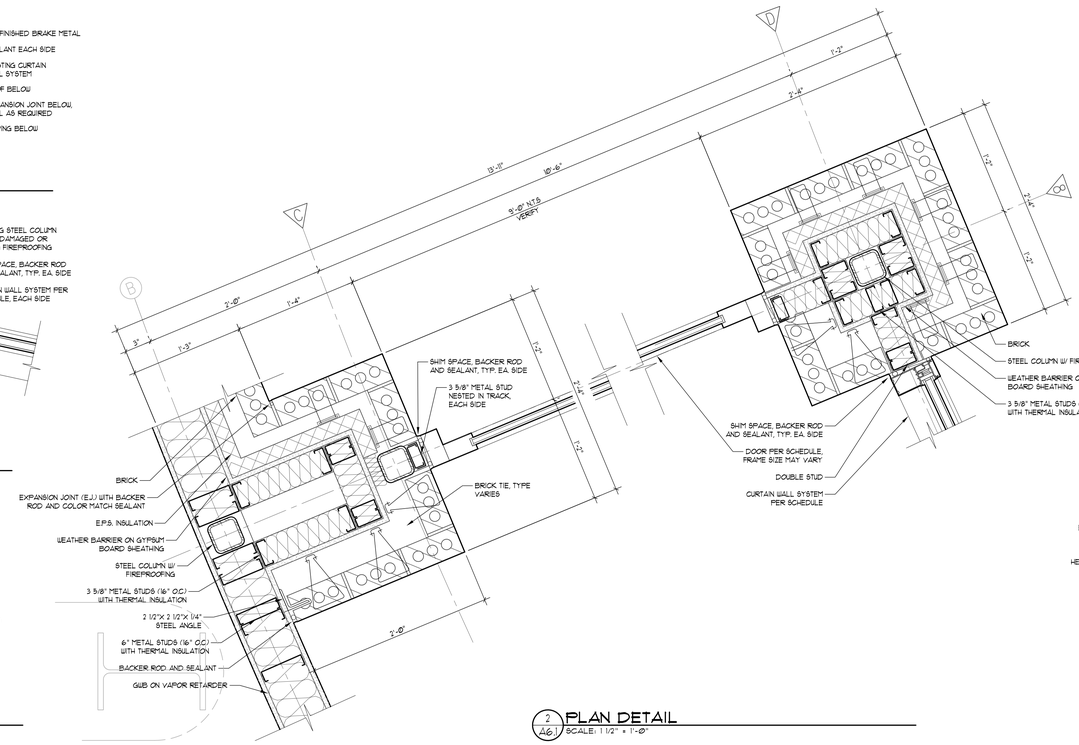

2 A6.1 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

Revisions:	Date

VA FORM 08-6231

CALVIN L. HINZ A-1793 REGISTERED PROFESSIONAL ARCHITECT STATE OF NEBRASKA

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Drawing Title: PLAN DETAILS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A6.1

Dwg. 12 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

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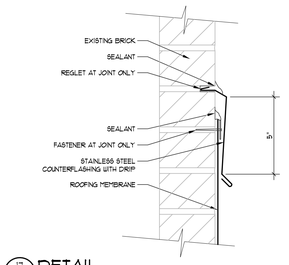

17 A6.2 DETAIL
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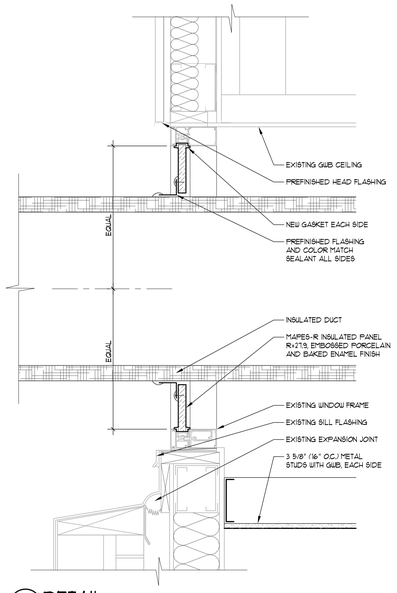

15 A6.2 DETAIL
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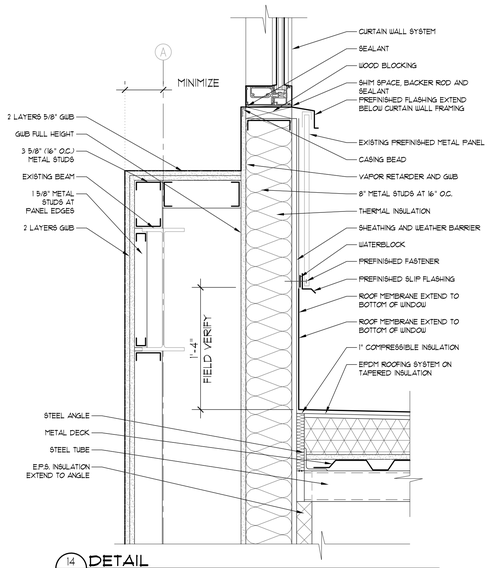

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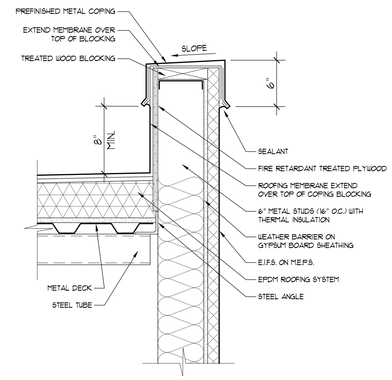

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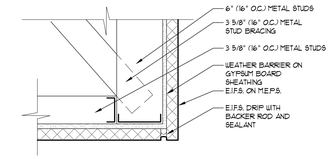

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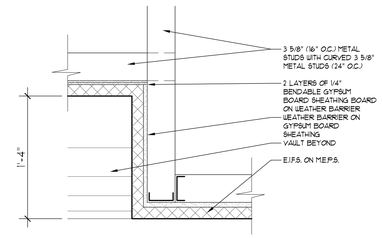

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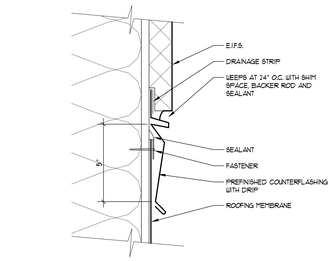

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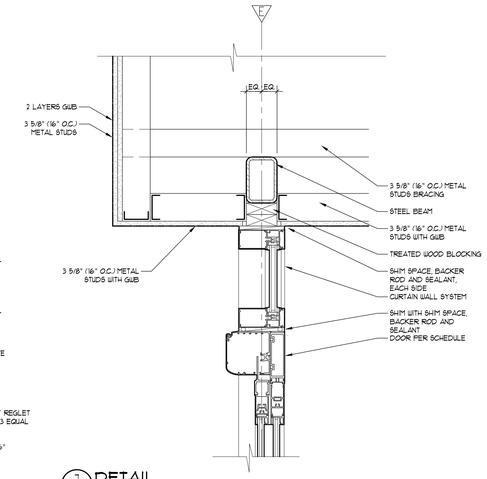

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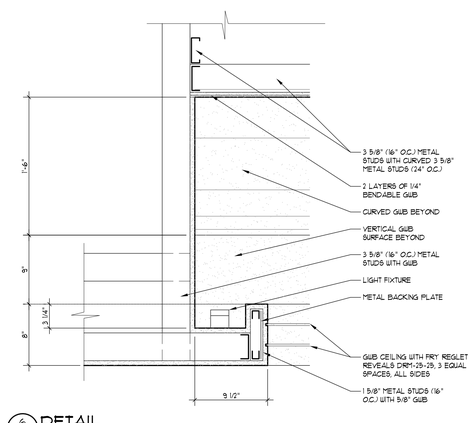

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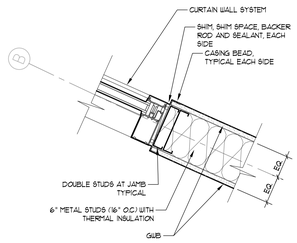

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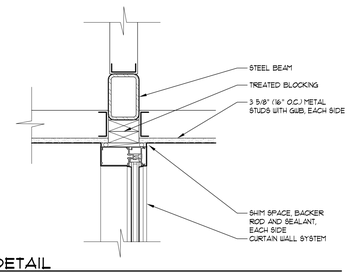

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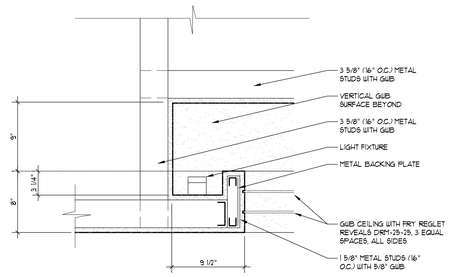

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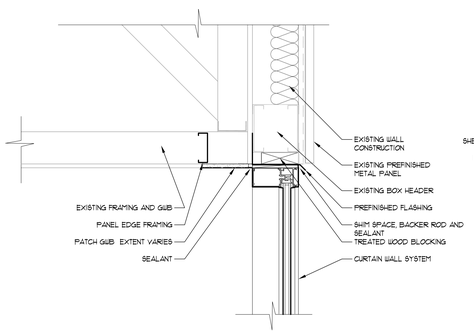

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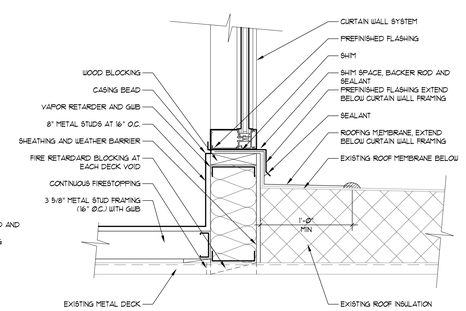

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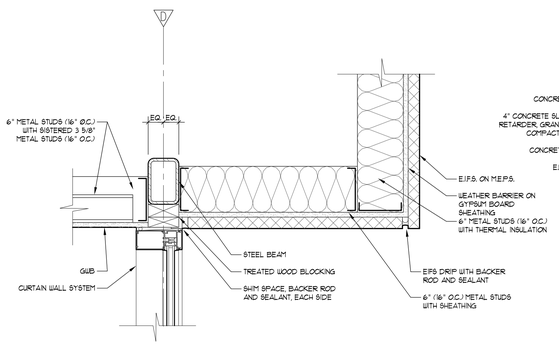

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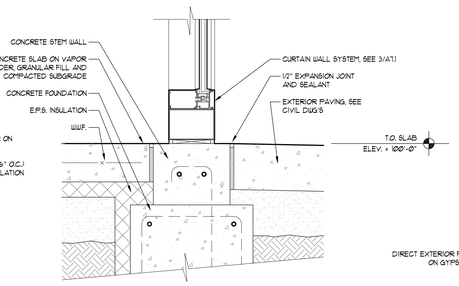

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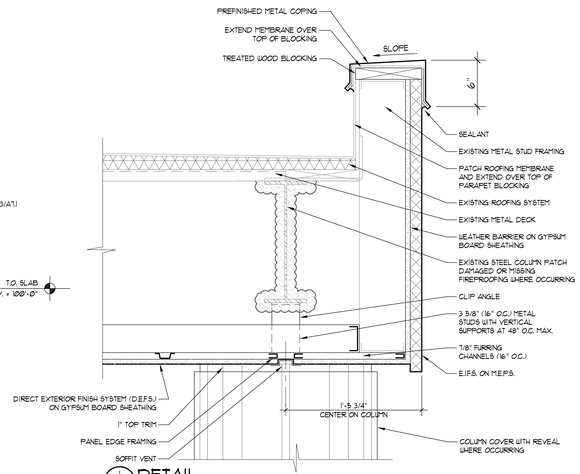

1 A6.2 DETAIL
SCALE: 1 1/2" = 1'-0"

Revisions:	Date

REGISTERED PROFESSIONAL ARCHITECT — CALVIN L. HINZ — A-1793 — STATE OF NEBRASKA

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ENGINEERING CONSULTING GROUP

Drawing Title: DETAILS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A6.2

Dwg. 13 of 34

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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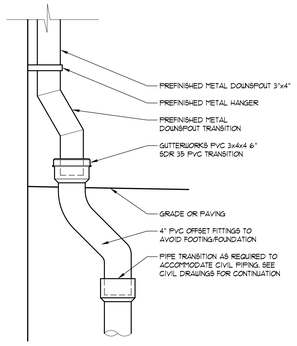

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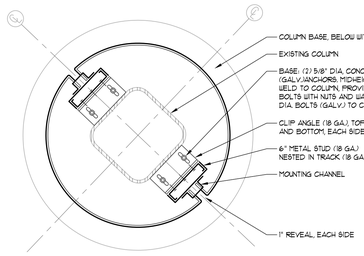

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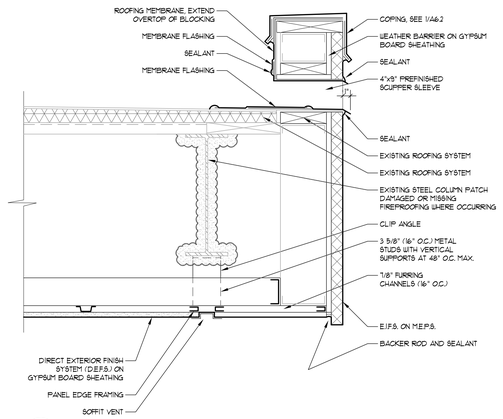

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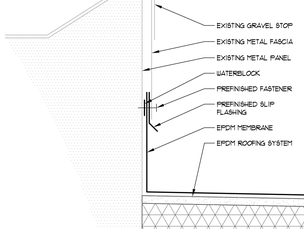

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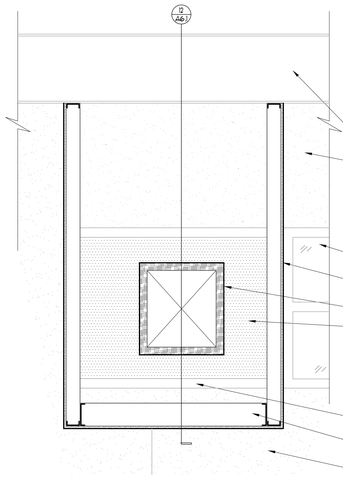

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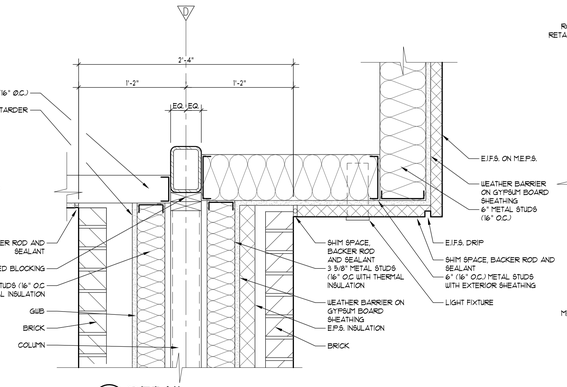

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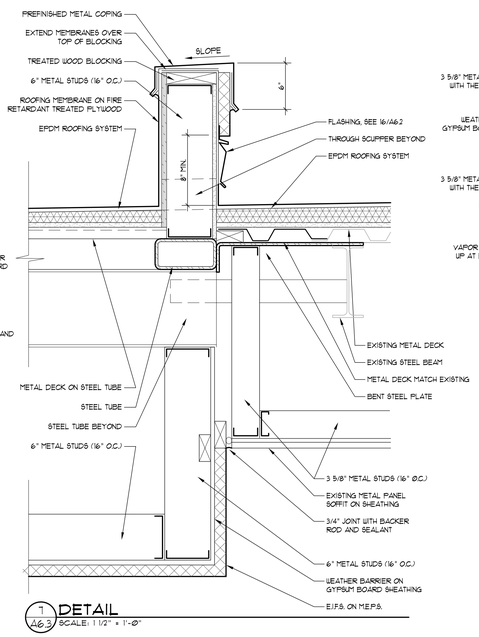

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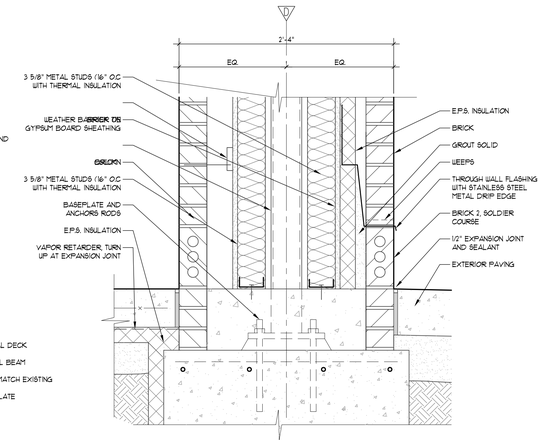

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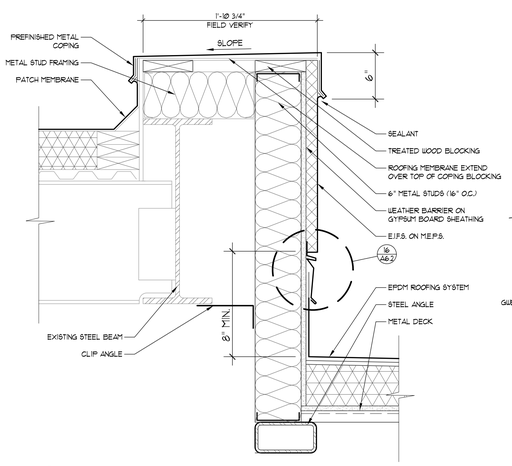

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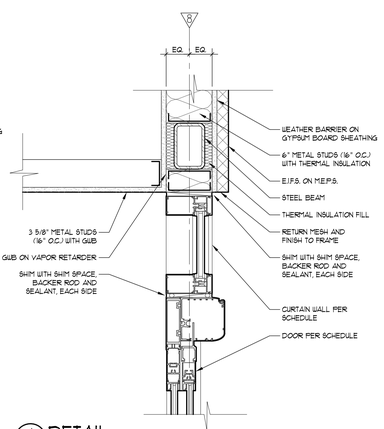

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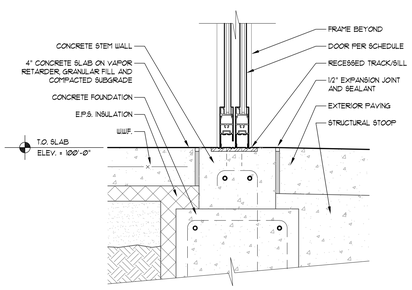

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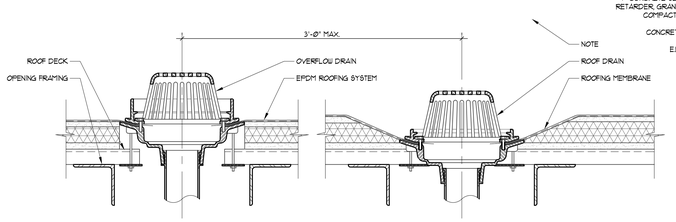

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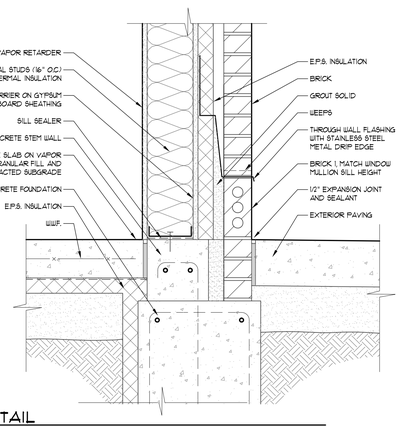

1 A6.3 DETAIL
SCALE: 1 1/2" = 1'-0"

Revisions:	Date

REGISTERED PROFESSIONAL ARCHITECT CALVIN L. HINZ A-1793 STATE OF NEBRASKA

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ENGINEERING CONSULTING GROUP

Drawing Title: DETAILS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A6.3

Dwg. 14 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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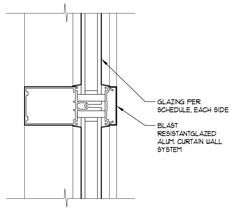

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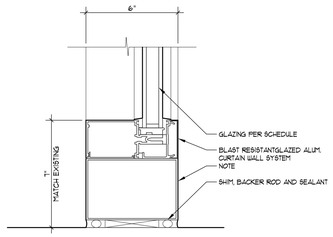

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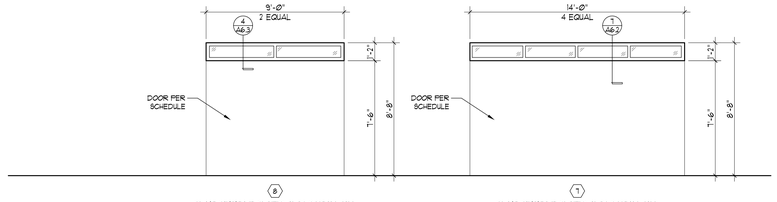
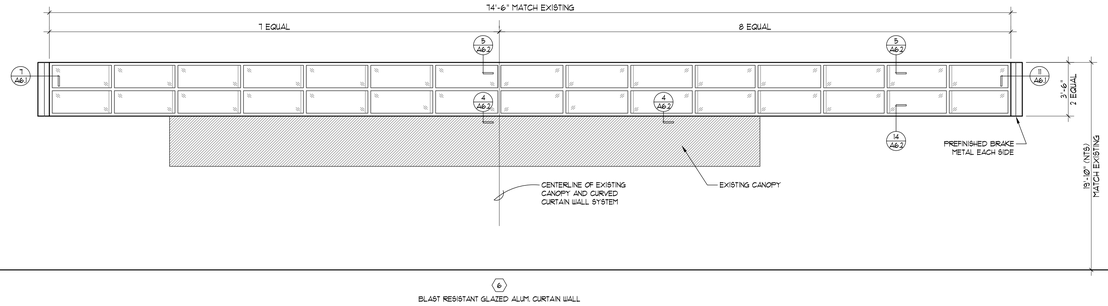


8 BLAST RESISTANT GLAZED ALUM. CURTAIN WALL

7 BLAST RESISTANT GLAZED ALUM. CURTAIN WALL



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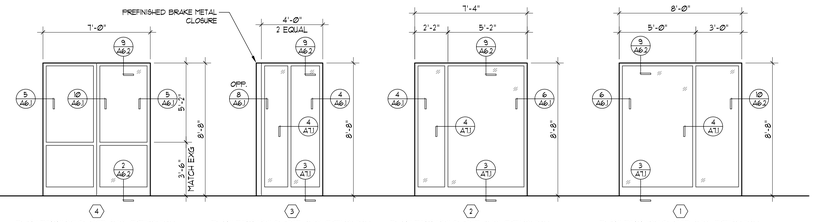

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4 BLAST RESISTANT GLAZED ALUM. CURTAIN WALL

3 BLAST RESISTANT GLAZED ALUM. CURTAIN WALL

2 BLAST RESISTANT GLAZED ALUM. CURTAIN WALL

1 BLAST RESISTANT GLAZED ALUM. CURTAIN WALL

2 A7.1 WINDOW TYPES
SCALE: 1/4" = 1'-0"

INTERIOR COLOR KEY

CODE	MANUFACTURER	MODEL	COLOR/PATTERN
ACOUSTICAL PANEL CEILING AND GRID (APC-X)			
APC-1	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING
CARPET (CPT-X)			
CPT-1	MOHAWK GROUP	STEP IN STYLE GT0866/MM014, 524 WOODLAND BROWN	
CORNER GUARD (CG-X)			
CG-1	ACROVYN 4000	FS-12IN, OYSTER GREY 529	PARTIAL HEIGHT - RECESSED
EDGE STRIPS (ES-X)			
ES-1	SCHLUTER SYSTEMS	SCHIENE	BRUSHED STAINLESS STEEL 304
ES-2	SCHLUTER SYSTEMS	RENO-RAIL	BRUSHED STAINLESS STEEL 304
VERIFY NEW AND EXISTING FLOORING MATERIAL THICKNESS, SHALL COMPLY WITH ADA			
PAINT (P-X)			
P-1	SHERWIN WILLIAMS	NOMADIC DESERT SW 6107	GLOSS LEVEL 4
P-2	SHERWIN WILLIAMS	TATAMI TAN SW 6156	GLOSS LEVEL 4
P-3	ICI/GLIDDEN	WHITE HIGH-HIDING RM, 98TY 72/022, ORDER #A0113.	GLOSS LEVEL 1
P-4		MATCH EXISTING	GLOSS LEVEL 5
TILE (T-X)			
T-1	CROSSVILLE -MAIN STREET	BRISTO BROWN AV213 18"X18"	
T-2	CROSSVILLE - MAIN STREET	BRISTO BROWN AV213 18"x6"	
TILE GROUT	LATICRETE - SPECTRALOCK PRO	#35 MOCHA	
	JOINT SIZE SHALL BE 1/8" OR AS RECOMMENDED BY TILE MFR.		
WALL BASE (WB-X)			
WB-1	JOHNSONITE	47 BROWN, 6" COVE	FILED VERIFY HEIGHT, COLOR AND STYLE
WALL PROTECTION (WP-X)			
WP-1	ACROVYN 4000 WALL COVERING PARTIAL HEIGHT	OYSTER GREY 529, 004"	PROVIDE ALL MOLDINGS AND TRIM FOR A COMPLETE INSTALLTION

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS N	WALLS E	WALLS S	WALLS W	CEILING/SOFFITS HEIGHT	CEILING/SOFFITS FINISH	NOTES
100	VESTIBULE	CPT-1	WB-1					VARIES	P-3	1.
101	LOBBY	T-1	WB-1	P-1/P-2	P-1/P-2	P-1/P-2	P-1/P-2	VARIES	P-3	1, 2, 3.
102	ENTRY	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
103	ENTRY	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
104	CHECK-IN	EXISTING	WB-1	P-1/P-2	P-1/P-2	P-1/P-2	P-1/P-2	EXISTING	P-3	1, 3.

ROOM FINISH SCHEDULE NOTES:

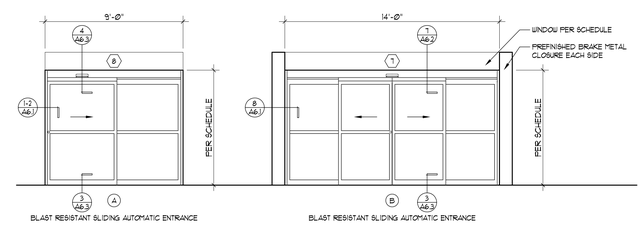
1. SEE FINISH PLAN FOR LOCATION OF TRANSITION STRIP.
2. PAINT ALL WALLS P-1, UNLESS NOTED OTHERWISE, SEE INTERIOR ELEVATIONS.
3. PAINT DOOR FRAME P-4.

DOOR AND FRAME SCHEDULE

DOOR NO.	HDWR SET	SIZE	DOOR TYPE	DOOR MAT'L	DOOR FINISH	FRAME MAT'L	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	NOTES
100	1	9'-0"x 7'-6" (4'-0" DOOR OPENING WIDTH)	A	ALUM	ANOD	ALUM	ANOD	SEE FRAME TYPE		
100A	1	9'-0"x 7'-6" (4'-0" DOOR OPENING WIDTH)	A	ALUM	ANOD	ALUM	ANOD			
101B	2	14'-0"x 7'-6" (6'-0" DOOR OPENING WIDTH)	B	ALUM	ANOD	ALUM	ANOD			

DOOR AND FRAME SCHEDULE NOTES:

1. ...



BLAST RESISTANT SLIDING AUTOMATIC ENTRANCE

BLAST RESISTANT SLIDING AUTOMATIC ENTRANCE

1 A7.1 DOOR TYPES
SCALE: 1/4" = 1'-0"

Revisions: Date

REGISTERED PROFESSIONAL ARCHITECT
CALVIN L. HINZ
A-1793
STATE OF NEBRASKA

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Drawing Title: SCHEDULES

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A7.1

Dwg. 15 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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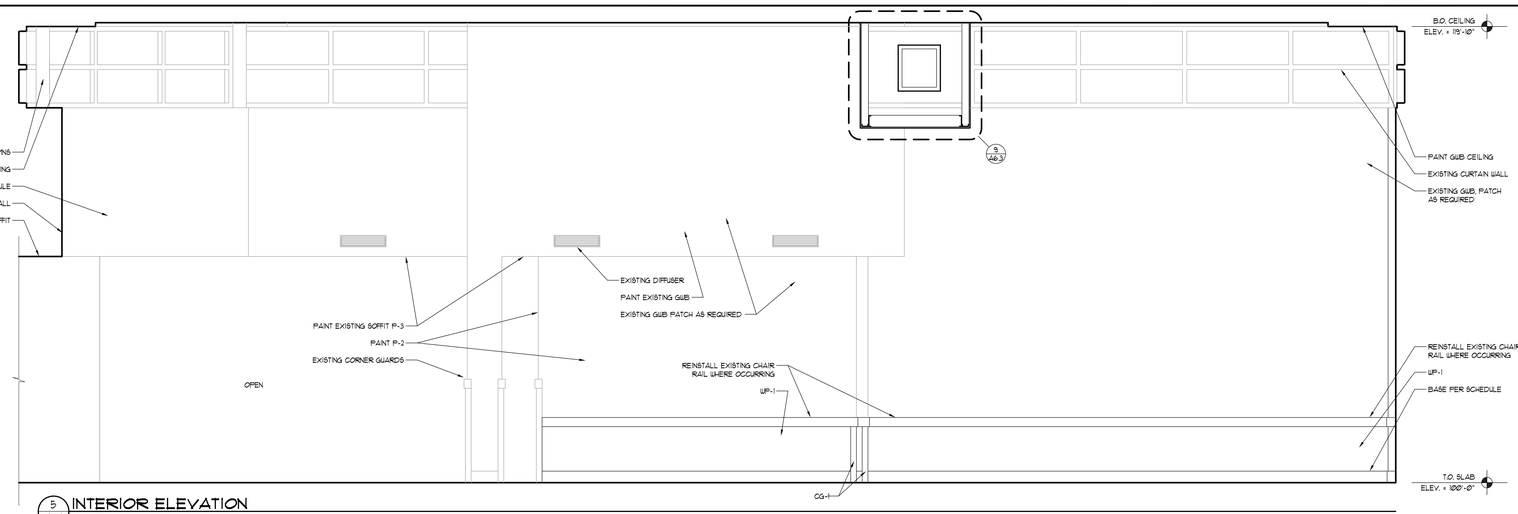
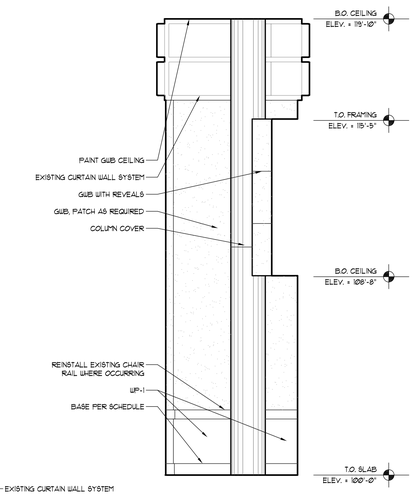


5 A9.1 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



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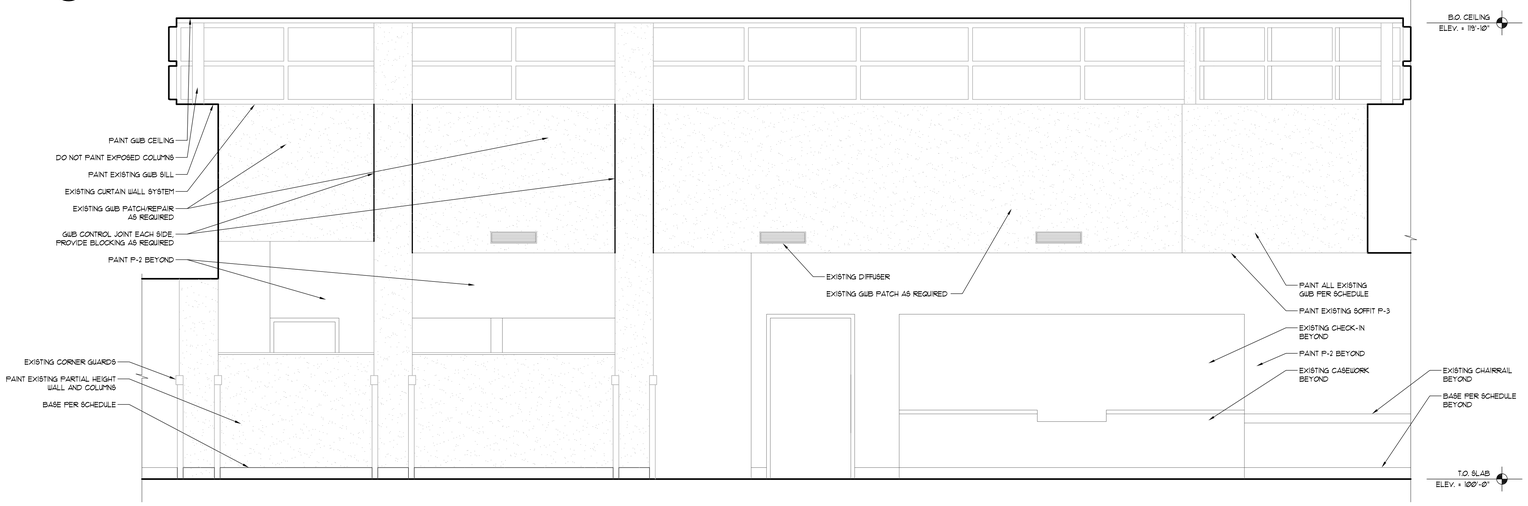

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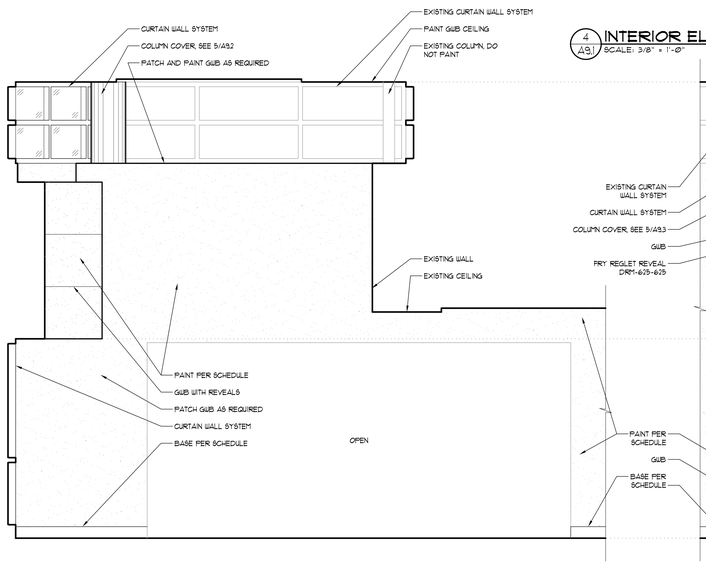

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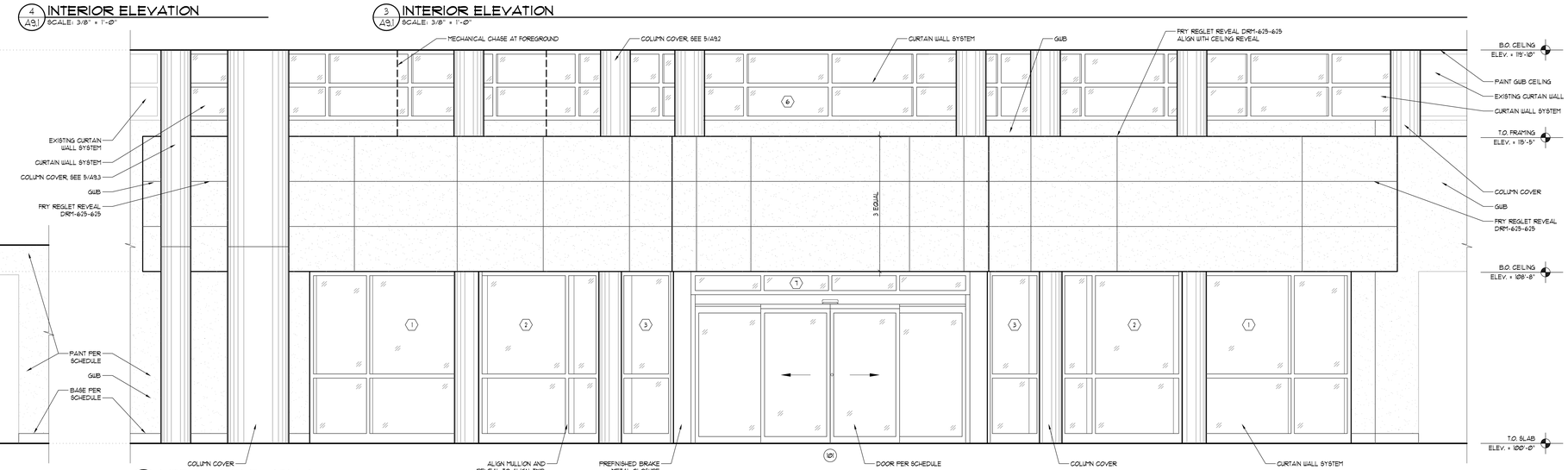

1 A9.1 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

Revisions:	Date

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Drawing Title: INTERIOR ELEVATIONS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A9.1

Dwg. 16 of 34

Office of Construction and Facilities Management

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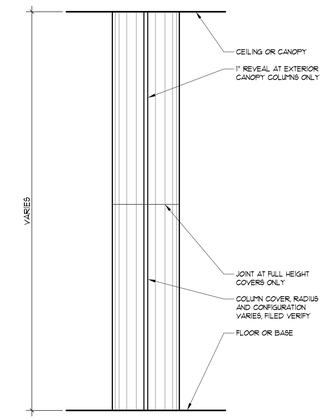

5 A9.2 ELEVATION — TYPICAL COLUMN COVER
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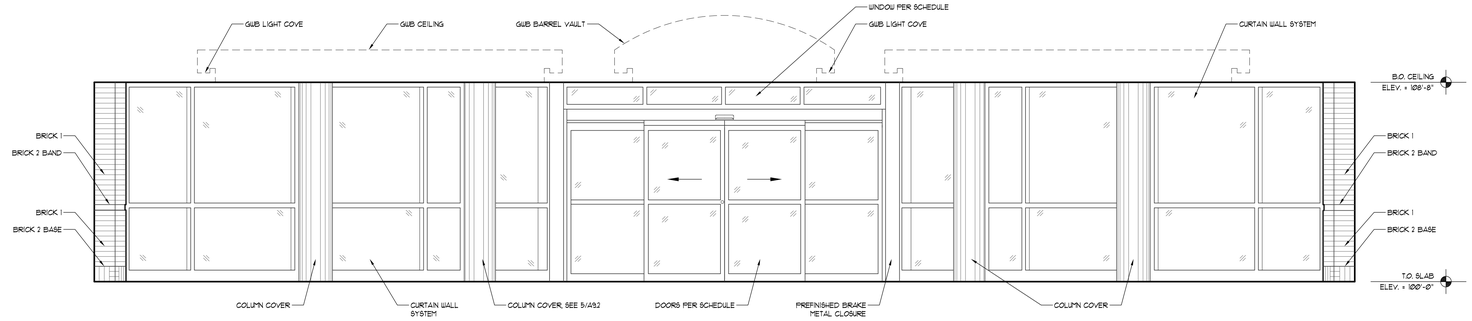
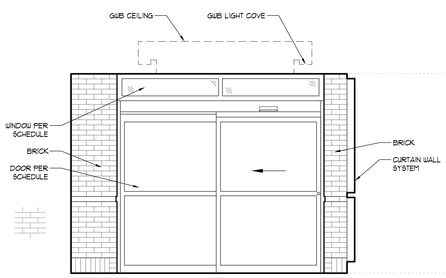
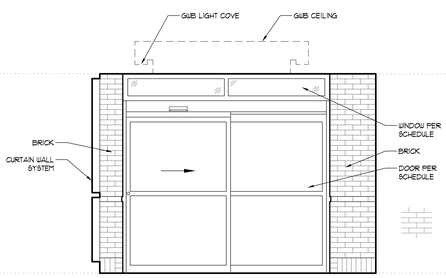


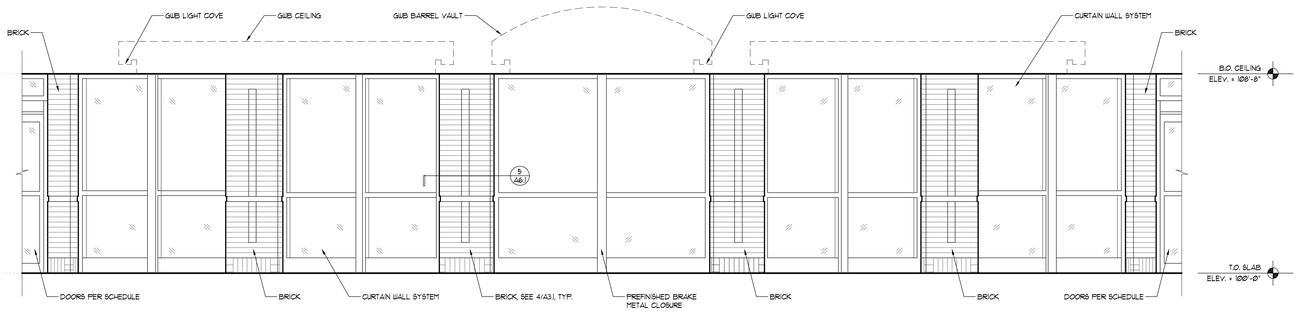
4 A9.2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



3 A9.2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



2 A9.2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



1 A9.2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

Revisions:	Date

VA FORM 08-6231

CALVIN L. HINZ A-1793 REGISTERED PROFESSIONAL ARCHITECT STATE OF NEBRASKA

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InfraStructure, LLC
ENGINEERING CONSULTING GROUP

Drawing Title: INTERIOR ELEVATIONS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: A9.2

Dwg. 17 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

P:\Projects - Active\2011-33 VA Omaha Entry-Correct Main Entrance HVAC\CD3\11-33 A4.1.dwg 5-13-13 07:53:54 AM mkearney

APPLICABLE CODES AND STANDARDS:
2006 INTERNATIONAL BUILDING CODE
ACI 318-05
A.I.S.C. LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (LRFD) MARCH 9, 2005
A.W.S. D1.1

DESIGN LIVE LOADS	PSF
EXIT FACILITIES	100
PUBLIC ROOMS	100
PARTITIONS - (LATERAL LOAD)	5

ROOF LIVE LOAD 20 PSF
ROOF SNOW LOAD (GROUND SNOW Pg=25 PSF) - 20 PSF + DRIFT

WIND LOADS
BASIC WIND SPEED 90 MPH
EXPOSURE CLASSIFICATION B
IMPORTANCE FACTOR 1.15

SEISMIC LOADS
SEISMIC DESIGN CATEGORY - A
IMPORTANCE FACTOR 1.25
SPECTRAL RESPONSE COEFFICIENT SDS = 0.132
SPECTRAL RESPONSE COEFFICIENT SD1 = 0.042
SITE CLASSIFICATION - D

MAXIMUM ALLOWABLE SOIL BEARING CAPACITY 1500 PSF

MATERIAL DATA:

CONCRETE & REINFORCING
CONCRETE STRENGTH (f'c @ 28 DAYS)
FOOTINGS, GRADEBEAMS 3000 PSI
CONCRETE NOT OTHERWISE SPECIFIED 3000 PSI
BOLLARD FOOTING 3000 PSI
GRADE SUPPORTED SLABS 4000 PSI
CEMENT TYPE PORTLAND TYPE I
AGGREGATES REGULAR WT. HARDROCK TYPE - ASTM C33
REINFORCING STEEL ASTM A615, GRADE 60
WELDED WIRE FABRIC ASTM A185
PREFORMED EXPN. JT. (1/2 IN) ASTM D1751

STEEL
STRUCTURAL STEEL (ALL OTHER SHAPES) ASTM A36
STRUCTURAL SQUARE TUBING ASTM A500, GRADE B (Fy = 46 KSI)
ANCHOR RODS ASTM F1554, GRADE 36,
BOLTED CONNECTIONS ASTM A325N
WELDED CONNECTIONS E70XX ELECTRODES
METAL ROOF DECK ASTM A611
LIGHT GAGE STEEL STUDS/JOISTS ASTM A570
12 TO 16 GAGE (PAINTED) ASTM A570 GRADE D (Fy=50 KSI)
18+ GAGE (PAINTED) ASTM A611 GRADE C (Fy=33 KSI)

STRUCTURAL NOTES:

GENERAL:

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE.

THE STRUCTURE ADDITION HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE.
APPLICATION OF ANY LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE.

WHERE CONSTRUCTION MATERIALS OR EQUIPMENT ARE TEMPORARILY STORED ON ROOF, THEY SHALL BE DISTRIBUTED SO THAT THE DESIGN LIVE LOAD IS NOT EXCEEDED.

STEEL LATERAL LOAD RESISTING SYSTEM: ALL LATERAL LOAD RESISTANCE AND STABILITY IN THE COMPLETED STRUCTURE IS PROVIDED BY:
N-S DIRECTION: CONNECTION TO EXISTING STRUCTURE
E-W DIRECTION: CONNECTION TO EXISTING STRUCTURE
ROOF DIAPHRAGM: METAL ROOF DECK

STEEL STABILITY: STRUCTURAL STEEL FRAMING INDICATED IN THESE PLANS REQUIRES INTERACTION WITH NON-STRUCTURAL STEEL ELEMENTS FOR STRENGTH AND/OR STABILITY. SEE PLANS FOR SPECIFIC LOCATIONS OF THESE NON-STRUCTURAL STEEL ELEMENTS WHICH ARE LISTED BELOW:

DETAILS ON THE DRAWINGS INDICATED AS "TYPICAL" APPLY IN ALL AREAS WHERE CONDITIONS SIMILAR TO THE DETAIL OCCUR.

THE STRUCTURAL DRAWINGS ARE NOT INTENDED FOR USE AS SHOP ERECTION DRAWINGS. REPRODUCTION OF THESE DRAWINGS IN LIEU OF PREPARATION OF SHOP ERECTION DRAWINGS SIGNIFIES THE USERS' ACCEPTANCE THAT ALL INFORMATION SHOWN IS CORRECT AND APPROPRIATE FOR SHOP DRAWINGS AND THAT THE USER WILL BE FULLY RESPONSIBLE FOR EXPENSES THAT MAY OCCUR FROM SAID ACCEPTANCE.

UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS MADE FOR FUTURE FLOORS, ROOFS, OR OTHER LOADS.

COORDINATION / VERIFICATION:

CHECK AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH ANY PHASE OF THE WORK.

CROSS REFERENCE STRUCTURAL DRAWINGS WITH MECHANICAL AND ELECTRICAL DRAWINGS, AND WITH ACTUAL EQUIPMENT SUPPLIED TO THE PROJECT, FOR THE LOCATION AND SIZE OF ALL SLAB OPENINGS, SLEEVES, INSERTS, FLOOR DEPRESSIONS, BLOCK-OUTS, CURBS, ANCHORS, BOLTS, ETC. REQUIRED FOR INSTALLATION.

PROVIDE ADEQUATE STRUCTURAL FRAMING AS APPROVED BY THE ENGINEER FOR ALL REQUIRED MECHANICAL OPENINGS THROUGH SLABS, WALLS, FLOOR DECK, ETC., AND SUPPORT OF ALL MECHANICAL EQUIPMENT. OPENINGS SHALL NOT BE PERMITTED THROUGH BEAMS UNLESS SPECIFICALLY DETAILED BY THE ENGINEER.

REFER TO ARCHITECTURAL DRAWINGS FOR ALL SURFACE FINISHES AND DIMENSIONS.

CONCRETE / REINFORCING:

CONCRETE BATCH DESIGN(S) SHALL BE PROPORTIONED AND PRODUCED IN ACCORDANCE WITH A.C.I. 318, IN PARTICULAR CHAPTER 5, AND A.C.I. 301. MIX AND DELIVER IN ACCORDANCE WITH ASTM C94.
SLUMP REQUIREMENTS:
FOUNDATIONS MIN. 1 IN. / MAX. 3 IN.
OTHER CONCRETE MIN. 1 IN. / MAX. 4 IN.
AIR ENTRAINMENT CONCRETE EXPOSED TO WEATHER _ 5% MIN.
ADMIXTURES SUBMIT AS REQUIRED FOR APPROVAL
FLY ASH MAX. 20% OF CEMENT CONTENT

CONSTRUCTION JOINTS MUST HAVE PRIOR REVIEW BY THE ENGINEER. ALL CONTINUOUS REINFORCING SHALL BE CARRIED THROUGH THE JOINT.
LOCATIONS:
FND FOOTINGS MIDWAY BETWEEN COLUMNS

CONCRETE TO CONCRETE COLD JOINTS - PROVIDE 1/4" INTENTIONALLY ROUGHENED SURFACE AT ALL HORIZONTAL JOINTS.

CURING: CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF SEVEN DAYS AFTER ITS PLACEMENT. IF FORMWORK IS REMOVED PRIOR TO SEVEN DAYS, APPLY MOIST CURING TO NEWLY EXPOSED SURFACES. APPROVED CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING.

REINFORCING BAR WELDING: ABSOLUTELY NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED WITHOUT THE SPECIFIC APPROVAL OF THE ENGINEER.

MINIMUM CONCRETE CLEAR COVER:
PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCING (FACE OF CONCRETE TO EDGE OF BAR) UNLESS DETAILED OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST AND
PERMANENTLY EXPOSED TO EARTH 3"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
SLABS, WALLS, JOISTS #11 BAR AND SMALLER 3/4"

BAR SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES
SLAB REINFORCING ON BAR BOLSTERS @ 4 FT. O.C. MAX.
WITH SAND PLATES AS REQUIRED
NO ROCKS, CLAY TILE, OR CLAY BRICK SHALL BE USED TO SUPPORT REINFORCING.

NON-METALLIC, SHRINKAGE-RESISTANT GROUT
PRE-MIXED, NON-METALLIC, NON-CORROSIVE, NON-STAINING
PRODUCT CONTAINING SILICA SANDS, PORTLAND CEMENT,
SHRINKAGE-COMPENSATING AGENTS, PLASTICIZING AND WATER-REDUCING AGENTS (ASTM C-1107).
MINIMUM COMPRESSIVE STRENGTH @ 48 HOURS 2400 PSI
MINIMUM COMPRESSIVE STRENGTH @ 28 DAYS 7000 PSI

REINFORCING SHOP DRAWINGS: REINFORCING SUPPLIER SHALL PROVIDE COMPLETE PLACEMENT AND FABRICATION DRAWINGS FOR ALL REINFORCING INCLUDING THE LOCATION AND SIZE OF ALL ACCESSORIES AND SUPPORTS.

FOUNDATIONS:

FOOTINGS SHALL BE PLACED ON NEAT, CLEAN AND DRY EXCAVATIONS. EXTREME CARE SHALL BE TAKEN WHEN EXCAVATING NEAR THE BEARING SURFACE. FOOT TRAFFIC SHALL BE KEPT TO A MINIMUM NECESSARY TO PLACE THE FOOTING REINFORCEMENT AND CONCRETE.

THE CONTRACTOR SHALL PROVIDE FOR ADEQUATE DRAINAGE OF SURFACE WATER AWAY FROM THE STRUCTURE AND EXCAVATED AREAS DURING CONSTRUCTION. THIS INCLUDES NECESSARY PUMPING, TRENCHING, BACKFILL AND/OR DIKE CONSTRUCTION.

GRADE SUPPORTED SLABS:

REINFORCED CONCRETE SLAB ON GRADE:
SLAB THICKNESS: 5 IN.

REINFORCING:
#4 @ 18" O.C. EACH WAY PLACED THE REQ'D CLEAR DISTANCE FROM TOP OF SLAB OR
6x6-W2.9xW2.9 W.W.F. PLACED THE REQ'D CLEAR DISTANCE FROM TOP OF SLAB

VAPOR BARRIER:
TEN (10) MIL POLYETHYLENE. LAP AND TAPE ALL JOINTS AND HOLES.

GRANULAR SUBBASE UNDER SLAB-ON-GRADE:
MINIMUM THICKNESS: 6 IN.
COMPACTION 95% (± 2%)
GRADATION REQUIREMENTS:
100% PASSING THE 3/4" SIEVE
LESS THAN 15% PASSING THE 100 SIEVE
LESS THAN 2% PASSING THE 200 SIEVE

SELECT FILL, WHERE REQUIRED TO ACHIEVE FINAL GRADE;
CLEAN, INORGANIC, LOW-PLASTICITY SILT OR LEAN CLAY WITH THE FOLLOWING PROPERTIES:
MAXIMUM LIQUID LIMIT (LL) 40
PLASTICITY INDEX (PI) RANGE 5 TO 18
MOISTURE CONTENT (% OF OPTIMUM) +3%, -2%
MAXIMUM LOOSE LIFT 8"
COMPACTION 95% (± 2%)

EXISTING SUBGRADE:
HEAVILY ROOT INFESTED TOPSOIL, PAVING, AND DEBRIS SHOULD BE STRIPPED AND DISCARDED. REMAINING EARTH SHALL BE SCARIFIED TO A DEPTH OF 12" AND RECOMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY

CRACK CONTROL JOINTS (WHETHER CONSTRUCTION JOINTS OR SAWED JOINTS) IN SLABS ON GRADE SHALL OCCUR AS SHOWN AND ACROSS ALL DOOR OPENINGS. LOCATE JOINTS AT RE-ENTRANT CORNERS OF SLABS.
MAXIMUM SPACING OF CONTROL JOINTS:10 FEET

CURING: CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF SEVEN DAYS AFTER ITS PLACEMENT. APPROVED CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING. CURING COMPOUNDS SHALL BE NON-RESIDUAL TYPE AND COMPATIBLE WITH SPECIFIED SEALER

SEAL ALL EXPOSED CONSTRUCTION/CRACK CONTROL JOINTS AND EXPANSION JOINTS WITH POLYURETHANE TYPE SEALANT

STRUCTURAL STEEL:

BEARING CONNECTIONS: UNLESS OTHERWISE NOTED, ALL BEAM CONNECTIONS SHALL BE SIMPLE FRAMED SHEAR BEARING CONNECTIONS IN ACCORDANCE WITH THE AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING A.S.T.M. A325 OR A490 BOLTS."

DESIGN OF CONNECTIONS: BEAM CONNECTIONS SHALL BE AS DETAILED ON THE PLANS. ALTERNATIVE CONNECTIONS, DESIGNED BY A LICENSED ENGINEER FOR THE FABRICATOR, MAY BE UTILIZED PROVIDED THE ALTERNATIVE CONNECTION PROVIDES THE SAME LOAD CARRYING CAPACITY OF THE ORIGINAL DESIGN.

SPLICES: STEEL FABRICATOR SHALL VERIFY WITH ENGINEER ALL BEAM SPLICES OTHER THAN THOSE SHOWN ON THE PLANS. ANY FULL PENETRATION SHOP SPLICES APPROVED BY ENGINEER SHALL BE INSPECTED BY RADIOGRAPHIC METHODS BY A TESTING LABORATORY APPROVED BY THE ENGINEER AND PAID FOR BY THE FABRICATOR.

STEEL PROTECTION: ALL STRUCTURAL STEEL SHALL BE CLEANED PER SSPC SP-2 HAND TOOL CLEANING OR SP-3 POWER TOOL CLEANING AND SHOP PAINTED WITH ONE COAT OF THE FABRICATOR'S STANDARD PRIMER (PAINT TYPE SSPC-PAINT 13 OR 25). TOUCH UP SCARRED AREAS WITH THE SAME PAINT AFTER ERECTION.

STEEL PROTECTION: WHERE STEEL IS INDICATED AS GALVANIZED, PROVIDE HOT-DIPPED GALVANIZED SURFACE PER ASTM A525, CLASS G60. WHERE WELDING OR OTHER CONSTRUCTION OPERATIONS DAMAGE GALVANIZING, PROVIDE ZINC CHROMATE-TYPE TOUCH UP PAINT TO DAMAGED AREA.

WELDING: ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS PER AWS STANDARD QUALIFICATION PROCEDURES.

METAL DECKING

ROOF DECKING TYPE & SIZE: 1-1/2" - 20 GAGE TYPE B (WIDE RIB) ROOF DECK

DECK GOVERNING CRITERIA: THE DESIGN, FABRICATION, AND ERECTION OF METAL DECKING SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE SDI SPECIFICATIONS AND THE SDI DIAPHRAGM DESIGN MANUAL.

DECK ENDS: MAY BE BUTTED OR LAPPED OVER SUPPORTS. LAPS SHALL BE A MINIMUM OF 3".

DECK SPAN: DECKING SHALL BE PLACED TO PROVIDE A MINIMUM TWO-SPAN CONDITION.

ROOF DECK CONNECTIONS: ROOF DECKING SHALL BE CONNECTED TO THE SUPPORTING STRUCTURAL ELEMENTS WITH #12 SELF-TAPPING SCREWS SPACED AT 12" O.C. (36/4 PATTERN). SIDELAPS CONNECTIONS SHALL BE MADE WITH #10 SELF-TAPPING SCREWS AND BE SPACED SUCH THAT 2 FASTENERS ARE PROVIDED WITHIN EVERY DECK SPAN.

DECK PROTECTION: PAINTED DECKING SHALL BE COVERED WITH A WATERPROOF COVERING DURING SHIPPING AND SHALL BE STORED OFF OF THE GROUND AND COVERED WITH A WATERPROOF COVERING WHILE ON SITE.

ANCHORAGE

POST-INSTALLED ADHESIVE ANCHORS: SEE DETAILS
INSTALLATION TO MEET MANUFACTURER'S RECOMMENDATIONS (UNLESS NOTED OTHERWISE)
MIN. EMBEDMENTS, EDGE DISTANCES, SPACING, PROCEDURES, AND CURING TIME PRIOR TO LOADING.
POST-INSTALLED ANCHORS SHALL BE LOCATED PER THE DETAILS.

SPECIAL INSPECTIONS (IBC 2006)

SPECIAL INSPECTIONS SHALL BE PROVIDED FOR THE WORK IN ACCORDANCE WITH IBC CHAPTER 17.
CONTRACTOR SHALL NOTIFY AND ACCOMMODATE THE APPLICABLE INSPECTOR DURING APPROPRIATE PHASES OF THE WORK AS REQUIRED FOR EACH TYPE OF INSPECTION.

STEEL CONSTRUCTION

1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:
   A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. **- PERIODIC**
   B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. **- PERIODIC**
2. INSPECTION OF HIGH-STRENGTH BOLTING:
   A. BEARING-TYPE CONNECTIONS. **- PERIODIC**
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:
   A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.
   B. MANUFACTURERS' CERTIFIED MILL REPORTS.
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:
   A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.
   B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.
1. INSPECTION OF WELDING:
   A. STRUCTURAL STEEL
      A.A. SINGLE-PASS FILLET WELDS ≤ 5/16" **- PERIODIC**

CONCRETE CONSTRUCTION

6. INSPECTION OF REINFORCING STEEL, AND PLACEMENT. **- PERIODIC**
7. VERIFYING USE OF REQUIRED DESIGN MIX. **- PERIODIC**
8. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. **- CONTINUOUS**
9. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. **- CONTINUOUS**
10. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. **- PERIODIC**

INSPECTION OF SOILS

1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. - **PERIODIC**
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. - **PERIODIC**
3. PERFORM CLASSIFICIATION AND TESTING OF CONTROLLED FILL MATERIALS. **- PERIODIC**
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL. **- CONTINUOUS**
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. - **PERIODIC**

1 STRUCTURAL GENERAL NOTES
SCALE: NONE

Revisions:	Date

PROFESSIONAL STRUCTURAL ENGINEER JEFFREY A. EHLER E-7289 STATE OF NEBRASKA 5-13-13

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Drawing Title: GENERAL NOTES
CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)
Project Title: CORRECT MAIN ENTRANCE HVAC
Location: VAMC Omaha Nebraska
Date: MAY 10, 2013 | Checked: CLH | Drawn:
Project Number: 636-12-823
Building Number: ONE
Drawing Number: S1.0
Dwg. 18 of 34
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VA FORM 08-6231

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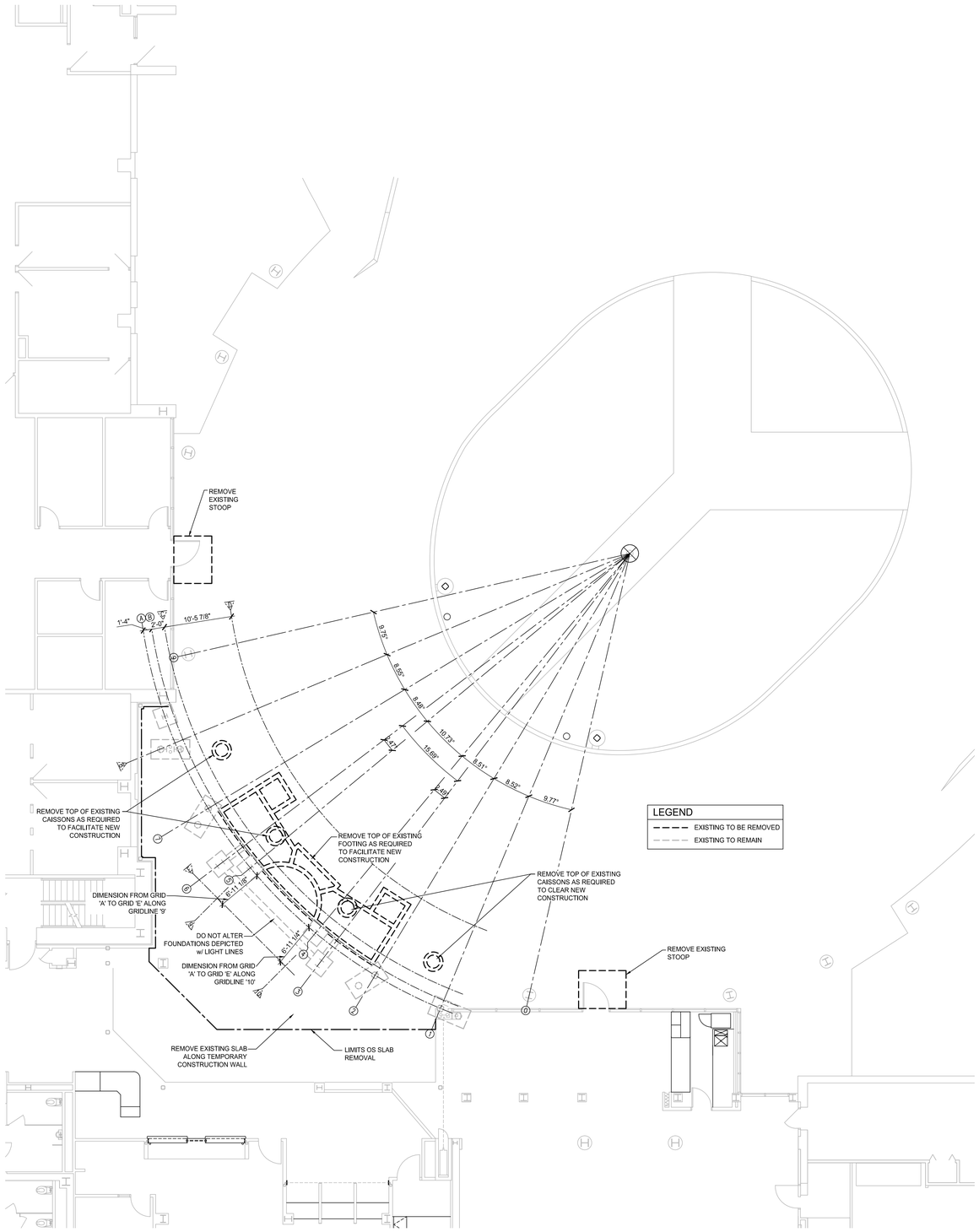
SPREAD FOOTING SCHEDULE

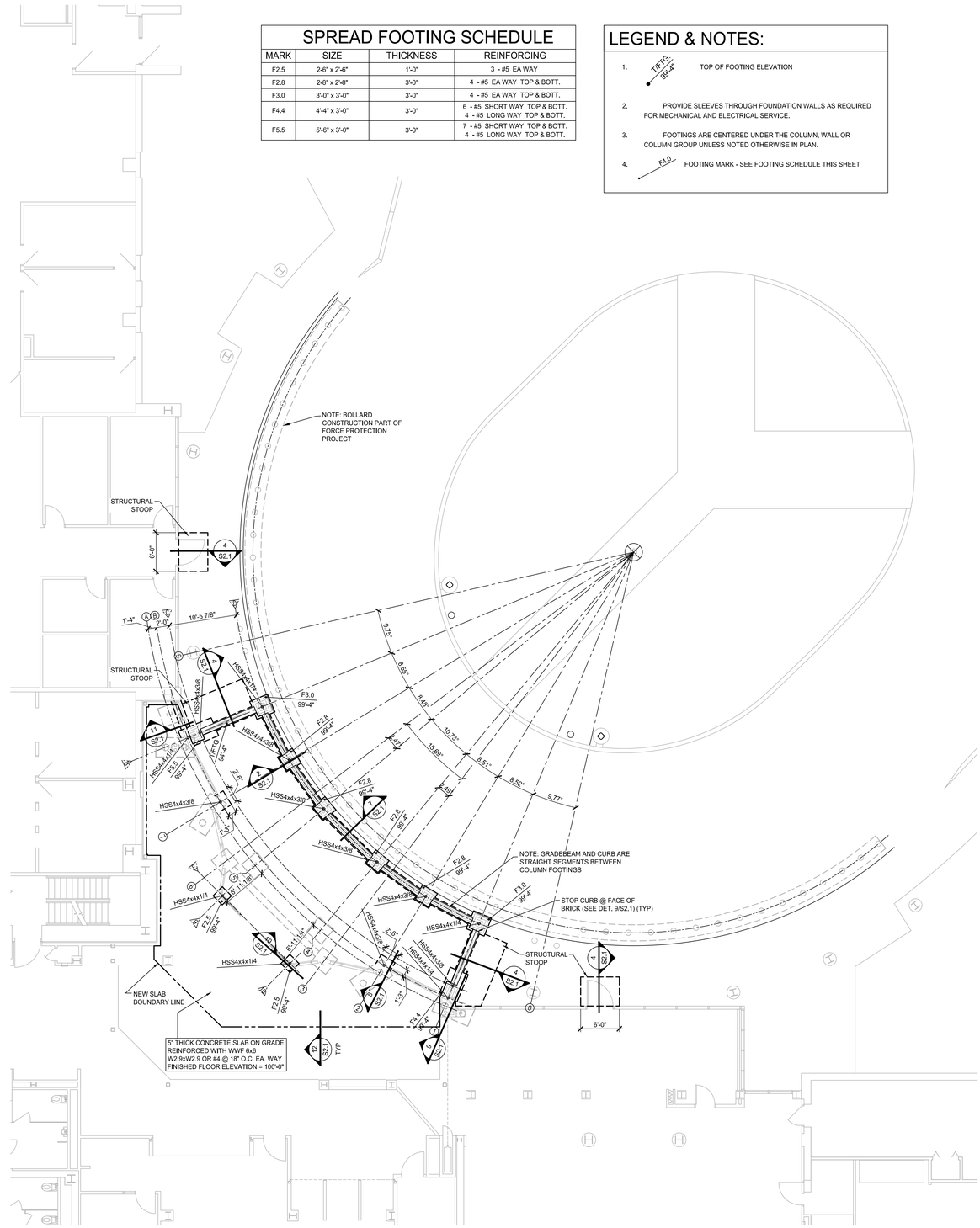
MARK	SIZE	THICKNESS	REINFORCING
F2.5	2'-6" x 2'-6"	1'-0"	3 - #5 EA WAY
F2.8	2'-8" x 2'-8"	3'-0"	4 - #5 EA WAY TOP & BOTT.
F3.0	3'-0" x 3'-0"	3'-0"	4 - #5 EA WAY TOP & BOTT.
F4.4	4'-4" x 3'-0"	3'-0"	6 - #5 SHORT WAY TOP & BOTT. 4 - #5 LONG WAY TOP & BOTT.
F5.5	5'-6" x 3'-0"	3'-0"	7 - #5 SHORT WAY TOP & BOTT. 4 - #5 LONG WAY TOP & BOTT.

LEGEND & NOTES:

1. TFTG 99'-4" — TOP OF FOOTING ELEVATION
2. PROVIDE SLEEVES THROUGH FOUNDATION WALLS AS REQUIRED FOR MECHANICAL AND ELECTRICAL SERVICE.
3. FOOTINGS ARE CENTERED UNDER THE COLUMN, WALL OR COLUMN GROUP UNLESS NOTED OTHERWISE IN PLAN.
4. F4.0 — FOOTING MARK - SEE FOOTING SCHEDULE THIS SHEET



1 EXISTING GRADE BEAM DEMO PLAN
SCALE: 1/8" = 1'-0"



2 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

NORTH

Revisions:	Date

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Drawing Title: FOUNDATION DEMOLITION/ NEW FOUNDATION PLANS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC
Location: VAMC Omaha Nebraska
Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823
Building Number: ONE
Drawing Number: S1.1
Dwg. 19 of 34

Office of Construction and Facilities Management
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VA FORM 08-6231
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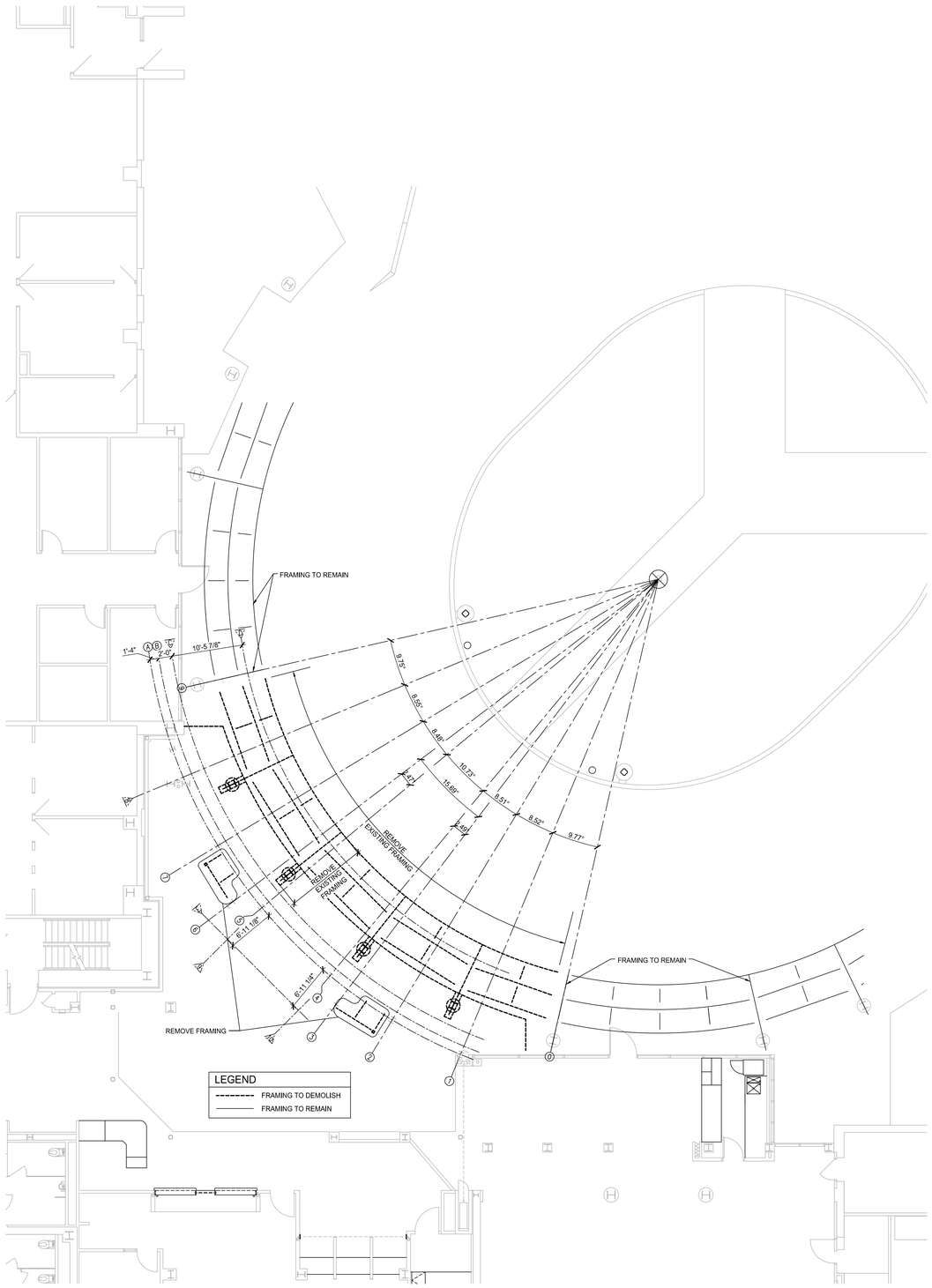
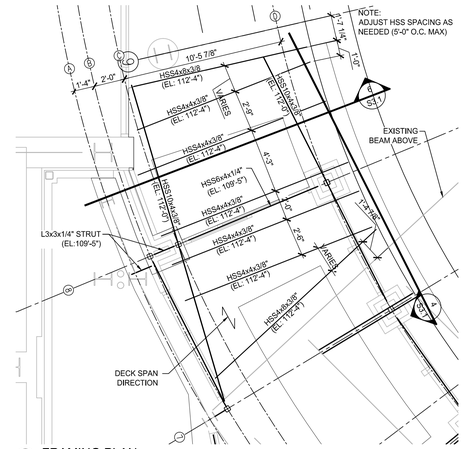
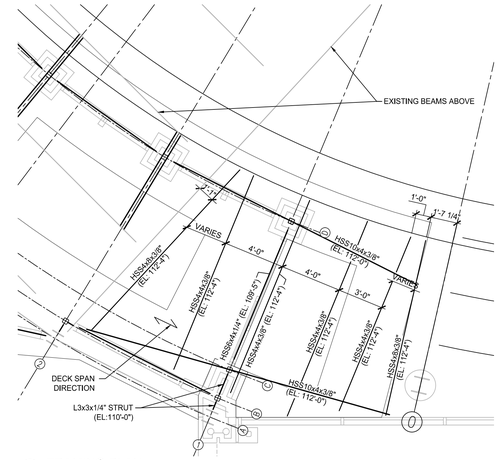


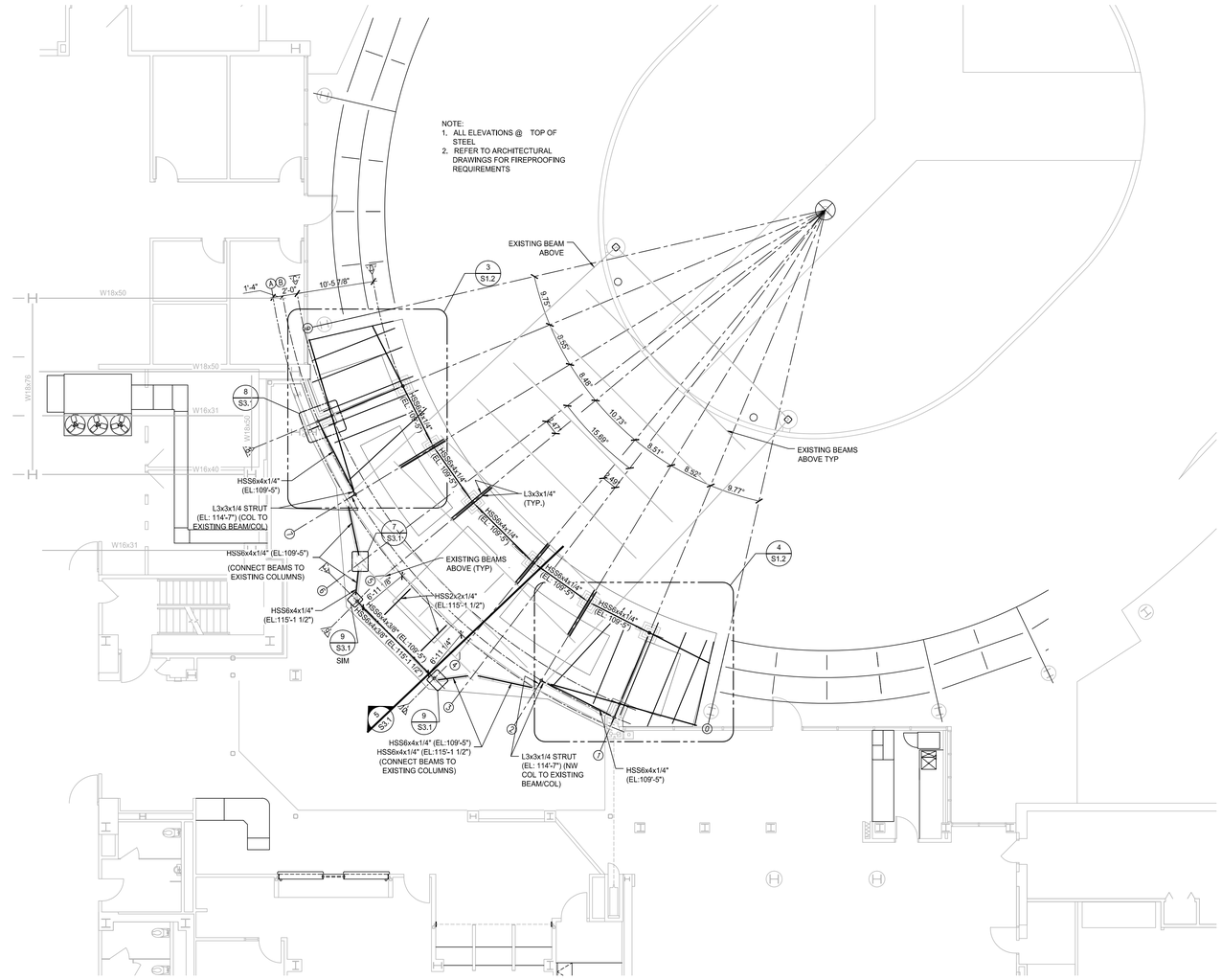
1 EXISTING FRAMING DEMO PLAN
SCALE: 1/8" = 1'-0"



3 FRAMING PLAN
SCALE: 1/4" = 1'-0"



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



2 FRAMING PLAN
SCALE: 1/8" = 1'-0"

NORTH

Revisions:	Date

PROFESSIONAL STRUCTURAL ENGINEER JEFFREY A. EHLER E-7285 STATE OF NEBRASKA 5-13-13

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Drawing Title: FRAMING DEMOLITION/ NEW FRAMING PLANS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: S1.2

Dwg. 20 of 34

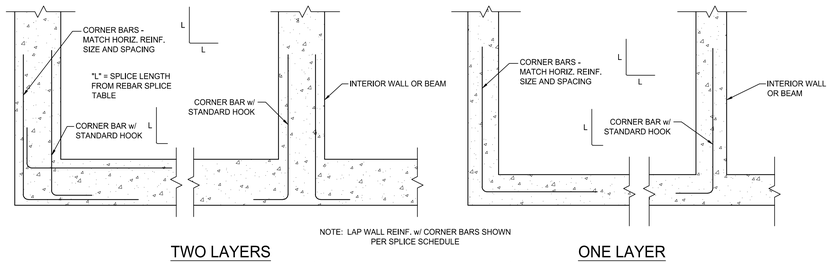
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

one eighth inch = one foot | one quarter inch = one foot | three eighths inch = one foot | one half inch = one foot | three quarters inch = one foot | one inch = one foot | one and one half inches = one foot | three inches = one foot

\Projects\NE128\12P02\Dwgs\S1 SHEETS.dwg 5-13-13 08:51:15 AM jzach



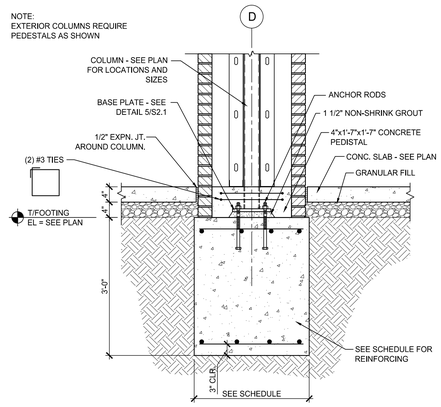
NOTE: LAP WALL REINF. w/ CORNER BARS SHOWN PER SPLICE SCHEDULE

TWO LAYERS

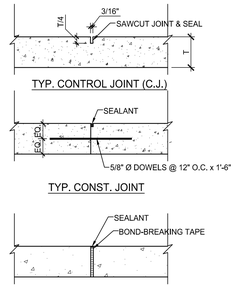
ONE LAYER

THIS DETAIL APPLICABLE TO
1. ALL PERIMETER FOUNDATION GRADEWALLS
2. ALL CONCRETE WALLS

1 GRADE BEAM CORNER REINFORCEMENT
SCALE: 3/4" = 1'-0"

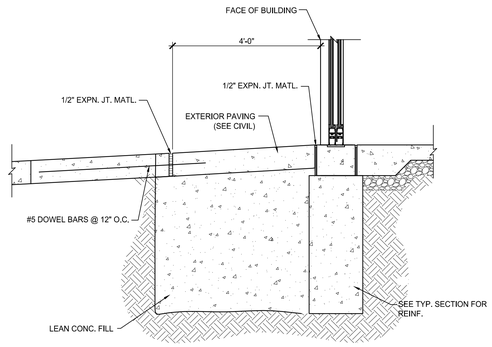


2 TYPICAL SPREAD FOOTING DETAIL
SCALE: 3/4" = 1'-0"

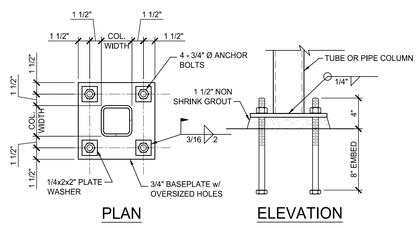


NOTES:
1. ALL FLOOR SLABS SHALL BE PLACED IN PAVING LANE PATTERN. A MAXIMUM JOINT SPACING OF 10 FT AND A MAXIMUM SLAB PANEL ASPECT RATIO (LENGTH/WIDTH) OF 1.5 SHALL BE OBSERVED.
2. ALL JOINTS TERMINATING A POUR SHALL BE FORMED CONSTRUCTION JOINTS.
3. TIME SAW CUTTING OPERATION TO PRECLUDE SHRINKAGE, CRACKING AND DISLODGING OF AGGREGATE.

3 TYPICAL CONCRETE JOINT DETAIL
SCALE: 1" = 1'-0"



4 TYPICAL STOOP DETAIL
SCALE: 3/4" = 1'-0"

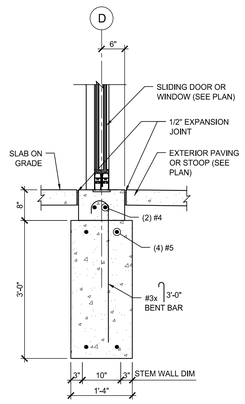


5 BASE PLATE DETAIL
SCALE: 1 1/2" = 1'-0"

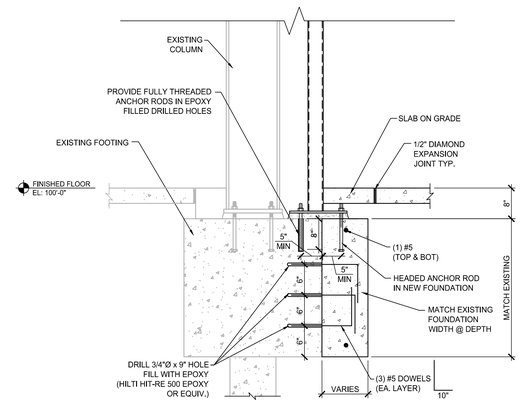
REBAR SPLICE SCHEDULE

BAR SIZE	SPLICE IN CONCRETE HORIZ. BAR	SPLICE IN CONCRETE VERT. BAR	SPLICE IN MASONRY
#3	28"	21"	16"
#4	36"	28"	20"
#5	46"	36"	26"
#6	48"	38"	40"
#7	70"	54"	
#8	80"	62"	
#9	90"	70"	

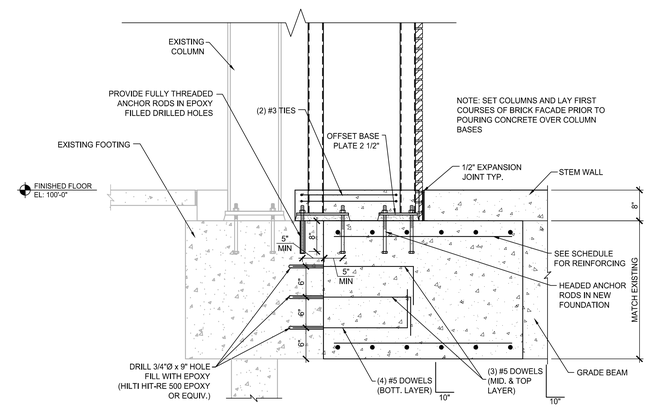
6 SPLICE SCHEDULE
SCALE: NO SCALE



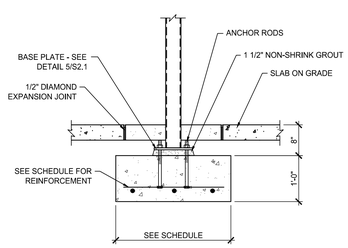
7 GRADE BEAM SECTION
SCALE: 3/4" = 1'-0"



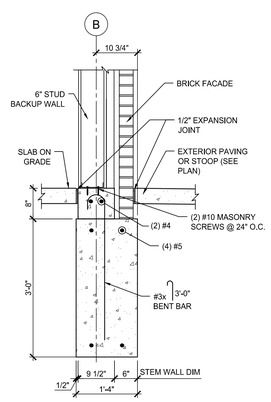
8 EXISTING/NEW FOOTING SECTION
SCALE: 3/4" = 1'-0"



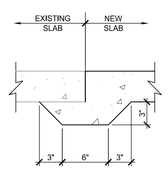
9 EXISTING/NEW FOOTING SECTION
SCALE: 3/4" = 1'-0"



10 FOOTING SECTION
SCALE: 3/4" = 1'-0"



11 FOOTING SECTION
SCALE: 3/4" = 1'-0"



12 EXISTING/NEW SLAB INTERFACE
SCALE: 1-1/2" = 1'-0"

Revisions: Date

PROFESSIONAL STRUCTURAL ENGINEER JEFFREY A. EHLER E-17293 STATE OF NEBRASKA 5-13-13

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InfraStructure, LLC
ENGINEERING CONSULTING GROUP

Drawing Title: FOUNDATION SECTIONS AND DETAILS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: CLH | Drawn:

Project Number: 636-12-823

Building Number: ONE

Drawing Number: S2.1

Dwg. 21 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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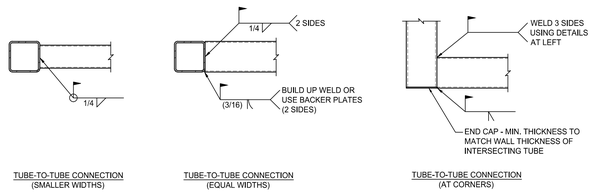
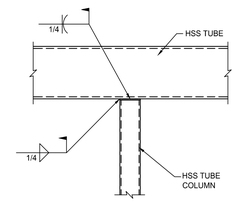
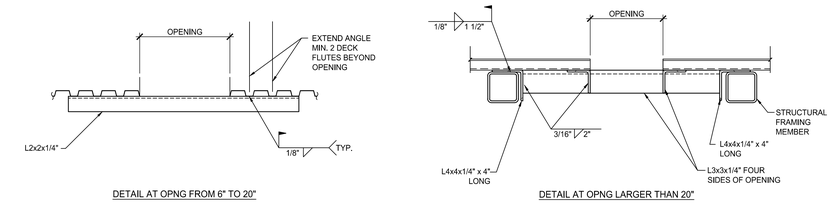


1 TYPICAL HSS WELD CONNECTION
SCALE: 3/4" = 1'-0"



2 TYPICAL BEAM BEARING ON COLUMN CONN.
SCALE: 1" = 1'-0"

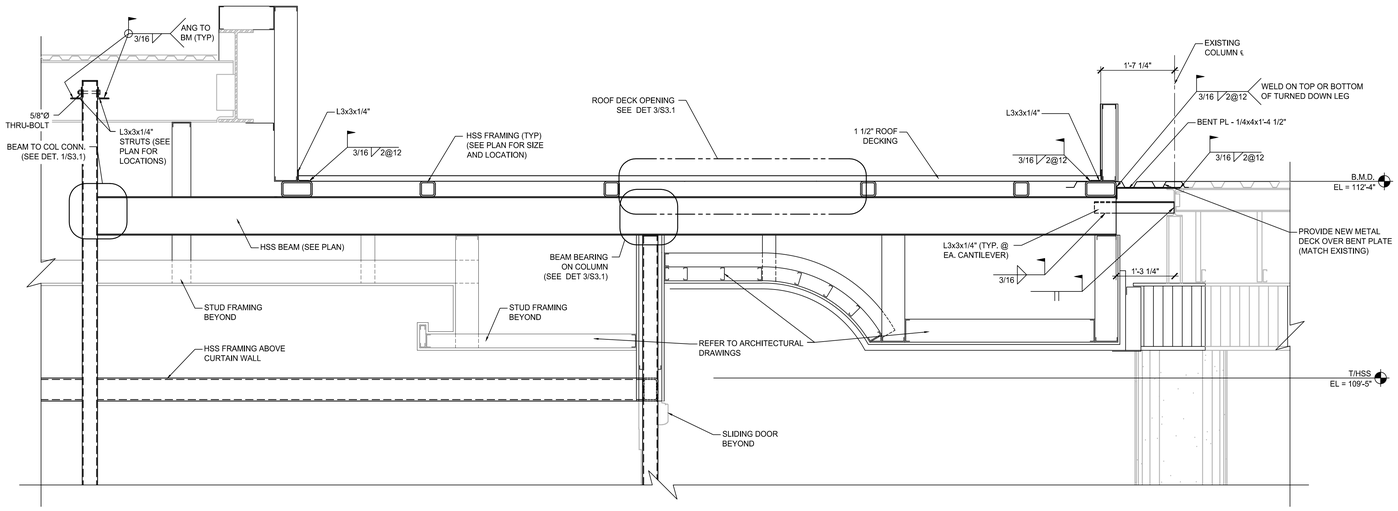


NOTES:

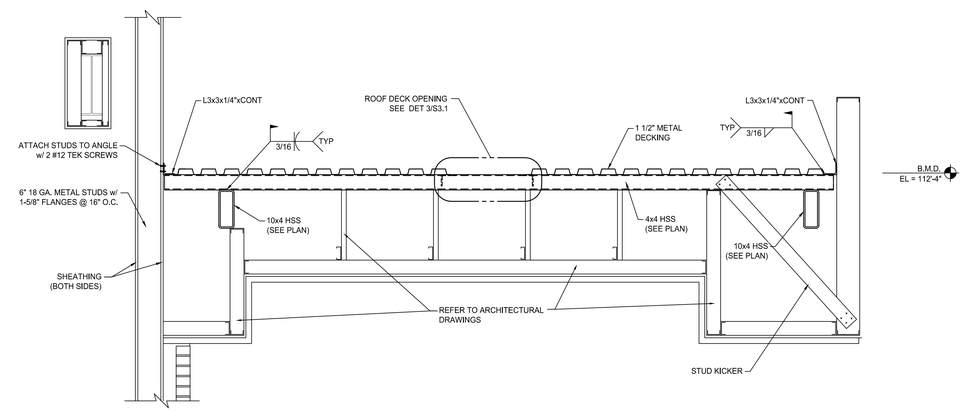
1. OPENING DIMENSION SHALL BE TAKEN TO THE LARGEST DIMENSION IN ANY DIRECTION.

2. FOR OPENING WITH DIMENSION PARALLEL TO STRUCTURAL FRAMING MEMBERS GREATER THAN 4'-0", NOTIFY ENGINEER.

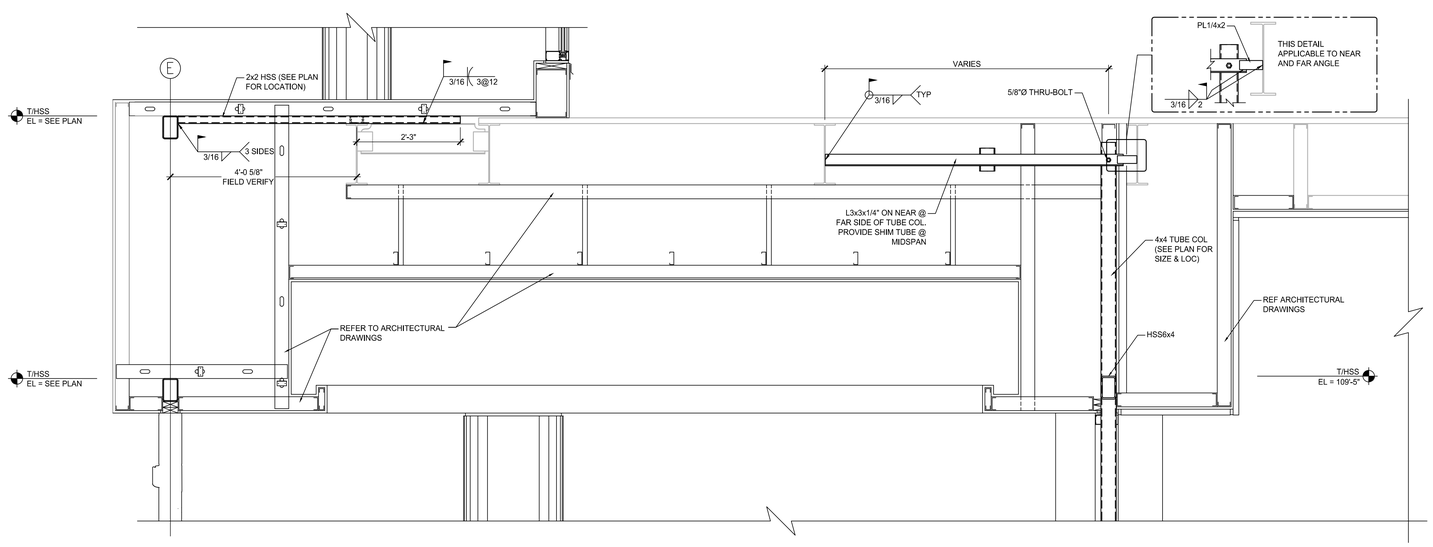
3 ROOF DECK OPENING FRAMING
SCALE: 1 1/2" = 1'-0"



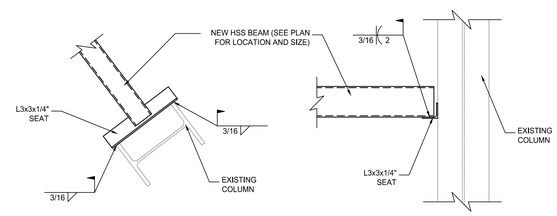
4 BUILDING SECTION
SCALE: 3/4" = 1'-0"



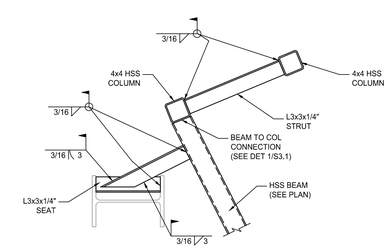
6 BUILDING SECTION
SCALE: 3/4" = 1'-0"



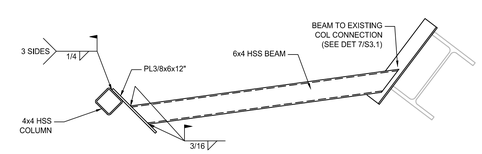
5 BUILDING SECTION
SCALE: 3/4" = 1'-0"



7 HSS TO EXISTING COLUMN CONNECTION
SCALE: 1" = 1'-0"



8 HSS TO EXISTING COLUMN CONNECTION
SCALE: 1" = 1'-0"



9 OFFSET HSS TO COLUMN CONNECTION
SCALE: 1" = 1'-0"

Revisions:	Date

PROFESSIONAL STRUCTURAL ENGINEER
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STATE OF NEBRASKA
5-13-13

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Dwg. 22 of 34

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Department of Veterans Affairs

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three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
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MECHANICAL SYMBOLS LEGEND
(AS APPLICABLE)

PIPING AND SPECIALTIES

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
RD	REFRIGERANT DISCHARGE	PGR	PROPYLENE GLYCOL RETURN		INLINE PUMP
RL	REFRIGERANT LIQUID	PGS	PROPYLENE GLYCOL SUPPLY	MV	AIR VENT - MANUAL
RS	REFRIGERANT SUCTION	FOR	FUEL OIL RETURN		
CD	COIL CONDENSATE DRAIN	FOS	FUEL OIL SUPPLY	A	AIR VENT - AUTOMATIC
LPS (XX)	LOW PRESSURE STEAM (PRESSURE)	FOV	FUEL OIL VENT	FS	FLOW SWITCH
MPS (XX)	MEDIUM PRESSURE STEAM (PRESSURE)	CR	CONDENSER WATER RETURN		
HPS (XX)	HIGH PRESSURE STEAM (PRESSURE)	CS	CONDENSER WATER SUPPLY	PS	PRESSURE SWITCH
LPC	LOW PRESSURE CONDENSATE	HPWR	HEAT PUMP WATER RETURN	AS	AIR SEPARATOR
MPC	MEDIUM PRESSURE CONDENSATE	HPWS	HEAT PUMP WATER SUPPLY		
HPC	HIGH PRESSURE CONDENSATE	D	PITCH OF PIPE, RISE (R) OR DROP (D)		THERMOMETER
PC	PUMPED CONDENSATE	R		TW	THERMOMETER WELL
MU	MAKE-UP WATER		PIPE ANCHOR - MAIN		
HCR	HOT/CHILLED WATER RETURN		PIPE ANCHOR - INTERMEDIATE		BALL JOINT
HCS	HOT/CHILLED WATER SUPPLY	H	HANGER - ROD	PUSO	PUMP SUCTION DIFFUSER
HWR	HEATING WATER RETURN	H	HANGER - SPRING		FLOAT THERMOSTATIC TRAP
HWS	HEATING WATER SUPPLY				FLOWMETER - ORIFICE
CWR	CHILLED WATER RETURN		ALIGNMENT GUIDE		FLOWMETER - VENTURI
CWS	CHILLED WATER SUPPLY		FLEX CONNECTOR		DUPLEX STRAINER
EGR	ETHYLENE GLYCOL RETURN		EXPANSION - LOOP		
EGS	ETHYLENE GLYCOL SUPPLY		EXPANSION - JOINT		

DUCTWORK

	SUPPLY, OUTSIDE OR MIXED AIR DUCT (UP)	10/6	RECTANGLE DUCT (WIDTH/HEIGHT)		OPPOSED BLADE DAMPER
	SUPPLY, OUTSIDE OR MIXED AIR DUCT (DOWN)	10Ø	ROUND DUCT (DIAMETER)		PARALLEL BLADE DAMPER
	SUPPLY, OUTSIDE OR MIXED AIR DUCT (SECTION)	10/6Ø	FLAT OVAL DUCT (WIDTH/HEIGHT)	FD	FIRE DAMPER (IN HORIZONTAL DUCT)
	RETURN AIR DUCT (UP)		FLEXIBLE DUCTWORK TO EQUIPMENT	SD	SMOKE DAMPER (IN HORIZONTAL DUCT)
	RETURN AIR DUCT (DOWN)		INSULATED FLEXIBLE DUCTWORK	FD	FIRE DAMPER (IN VERTICAL DUCT)
	RETURN AIR DUCT (SECTION)	R	ELEVATION CHANGE (RISE OR DROP)	SD	SMOKE DAMPER (IN VERTICAL DUCT)
	RELIEF OR EXHAUST AIR DUCT (UP)		HIGH EFF. TAKE OFF FITTING WITH VOLUME DAMPER	FSD	FIRE/SMOKE DAMPER (IN HORIZONTAL DUCT)
	RELIEF OR EXHAUST AIR DUCT (DOWN)	BD	BACKDRAFT DAMPER	FSD	FIRE/SMOKE DAMPER (IN VERTICAL DUCT)
	RELIEF OR EXHAUST AIR DUCT (SECTION)		TURNING VANES	AD	DUCT ACCESS PANEL
	ROUND DUCT (UP)	VD	VOLUME CONTROL DAMPER	RP	RELIEF PANEL
	ROUND DUCT (DOWN)		VOLUME CONTROL DAMPER		
	ROUND DUCT (SECTION)	CAP	DUCT END CAP		

H.V.A.C.

	SUPPLY DIFFUSER		VAV TERMINAL UNIT	T	THERMOSTAT
	SUPPLY REGISTER		FAN POWERED VAV TERMINAL UNIT	T G	THERMOSTAT WITH GUARD
	SUPPLY SLOT DIFFUSER		SIDE WALL DIFFUSER	XX-X	TEMPERATURE SENSOR - XX-X DENOTES SERVED
	RETURN REGISTER		ROUND DIFFUSER	CO	CARBON MONOXIDE SENSOR
	RETURN GRILLE		EXTERIOR LOUVER	CO_2	CARBON DIOXIDE SENSOR
	EXHAUST REGISTER		SUPPLY IDENTIFICATION TAG X DENOTES TYPE	NOX	NITROGEN DIOXIDE SENSOR
	EXHAUST GRILLE	X CFM	RETURN/ EXHAUST/LOUVER IDENTIFICATION TAG X DENOTES TYPE	H	HUMIDITY SENSOR
	DUAL DUCT TERMINAL UNIT		MOTORIZED ACTUATOR	P	PRESSURE SENSOR
			PNEUMATIC ACTUATOR	G	TEMPERATURE SENSOR WITH GUARD
				H	HUMIDISTAT
					EMERGENCY SHUTDOWN SWITCH

PLUMBING

	DOMESTIC COLD WATER PIPING	AW	ACID WASTE BELOW FLOOR OR GRADE	PA	PROCESSED AIR
	DOMESTIC HOT WATER SUPPLY	AW	EXIST ACID WASTE BELOW FLOOR/GRADE	IR	IRRIGATION PIPING
	DOMESTIC HOT WATER RECIRC.	AW	ACID WASTE ABOVE FLOOR OR GRADE	P	TRAP PRIMER
	PIPE REMOVAL	GW	GREASE WASTE BELOW FLOOR OR GRADE	G (XX)	NATURAL GAS PIPING (PSIG)
SAN	SANITARY BELOW FLOOR OR GRADE	GW	EXIST GREASE WASTE BELOW FLOOR/GRADE	HB	HOSE BIBB
SAN	EXISTING SANITARY BELOW FLOOR/GRADE	GW	GREASE WASTE ABOVE FLOOR OR GRADE	WH	WALL HYDRANT
SAN	SANITARY ABOVE FLOOR OR GRADE	SW	OIL/SAND BELOW FLOOR OR GRADE	CO	CLEAN OUT
ST	STORM BELOW FLOOR OR GRADE	SW	EXISTING OIL/SAND BELOW FLOOR/GRADE	FCO	FLOOR CLEAN OUT
ST	EXISTING STORM BELOW FLOOR/GRADE	SW	OIL/SAND ABOVE FLOOR OR GRADE		FLOOR DRAIN
ST	STORM ABOVE FLOOR OR GRADE	SCW	SOFTENED COLD WATER PIPING	VTR	VENT THRU ROOF (X DENOTES IDENTIFICATION)
SO	STORM OVERFLOW BELOW FLOOR/GRADE	PD	PUMPED DISCHARGE	RD	ROOF DRAIN
SO	EXIST. STORM OVERFLOW BELOW FLOOR/GRADE	V	VENT PIPING	ORD	OVERFLOW ROOF DRAIN
SO	STORM OVERFLOW ABOVE FLOOR/GRADE	AV	ACID VENT PIPING	DSN	DOWNSPOUT NOZZLE
		CA	COMPRESSED AIR		

VALVES

	GATE VALVE		STOP/CHECK GATE VALVE (ARROW IND. FLOW)		MULTIPURPOSE VALVE
	ANGLE GATE VALVE		SPRING GATE CHECK VALVE (ARROW IND. FLOW)	PRV	PRESSURE REDUCING VALVE
	BALL VALVE		SWING GATE CHECK VALVE (ARROW IND. FLOW)	PRV	PRESSURE REDUCING PILOT VALVE
	LOCKABLE BALL VALVE		ANGLE STOP/CHECK VALVE	BFP	REDUCED PRESS. BACKFLOW ASSY.
	BUTTERFLY VALVE		2-WAY ELECTROMOTOR VALVE	DC	DOUBLE CHK VALVE BACKFLOW ASSY.
	GLOBE VALVE		2-WAY AIRMOTOR VALVE		
	ANGLE GLOBE VALVE		2-WAY MANUAL VALVE	DDC	DOUBLE DETECTOR CHECK VALVE
	PLUG VALVE		3-WAY ELECTROMOTOR VALVE		OUTSIDE STEM & YOKE VALVE
	DIAPHRAGM VALVE		3-WAY AIRMOTOR VALVE		QUICK CLOSING FUSIBLE LINK VALVE
	DIAPHRAGM ACTUATED VALVE		3-WAY MANUAL VALVE		QUICK OPENING VALVE
	VALVE IN VERTICAL LINE		SAFETY PRESSURE RELIEF VALVE		PRESSURE GAUGE & BALL VALVE
	HOSE GATE VALVE		PRESSURE RELIEF VALVE		GATE VALVE WITH GLOBE VALVE BY-PASS
	HOSE GLOBE VALVE		TEMPERATURE MIXING VALVE		GLOBE VALVE WITH GLOBE VALVE BY-PASS
	HOSE ANGLE VALVE		AUTO FLOW VALVE		SPRINKLER - CONCEALED
	SOLENOID VALVE		FLOAT VALVE		SPRINKLER - RECESSED
			LOCK SHIELD		SPRINKLER - SIDEWALL
PIV	POST INDICATOR VALVE		CIRCUIT SETTER		SPRINKLER - UPRIGHT
					SPRINKLER - ZONE CONTROL

FITTINGS

	ELBOW		ELBOW - DOUBLE BRANCH		REDUCER - CONCENTRIC
	LONG RADIUS ELBOW		ELBOW - SIDE OUTLET UP		REDUCER - ECCENTRIC STRAIGHT INVERT
SR	SHORT RADIUS ELBOW		ELBOW - SIDE OUTLET DOWN		REDUCER - ECCENTRIC STRAIGHT CROWN
	45° ELBOW		ELBOW - OUTLET DOWN		CAPPED CONNECTION
	TEE		ELBOW - OUTLET UP		THREADED CONNECTION
	CROSS		TEE - OUTLET DOWN		FLANGED CONNECTION
	LATERAL		TEE - OUTLET UP		STRAINER
			TEE - SIDE OUTLET DOWN		STRAINER WITH BALL VALVE DRAIN
	TEE - SINGLE SWEEP		TEE - SIDE OUTLET UP		STRAINER WITH COUPLER
			SIAMESE CONNECTION		BUSHING
					FLOW DIRECTION

MISCELLANEOUS

XX YY	EQUIPMENT IDENTIFICATION TAG (ELECTRICAL CONNECTION REQUIRED)		NEW CONNECTION POINT	WC	WATER CLOSET
X XX	DETAIL REFERENCE SHEET REFERENCE		POINT OF DISCONNECT	UR	URINAL
		OA	OUTSIDE AIR	L	LAVATORY
X XX X XX	SECTION CUT REFERENCE SHEET REFERENCE	VA	VENTILATION AIR	S	SINK
		EA	EXHAUST AIR	DF	DRINKING FOUNTAIN
	ELECTRICAL PANEL - SHOWN FOR COORDINATION PURPOSES ONLY	RA	RELIEF OR RETURN AIR	EWC	ELECTRIC WATER COOLER
	ELECTRICAL PANEL - SHOWN FOR COORDINATION PURPOSES ONLY	SA	SUPPLY AIR	SS	SERVICE SINK
	ELECTRICAL PANEL - SHOWN FOR COORDINATION PURPOSES ONLY	MA	MIXED AIR	SH	SHOWER
T	ELECTRICAL TRANSFORMER - SHOWN FOR COORDINATION PURPOSES ONLY	RF	RELIEF OR RETURN FAN	DWH	DOMESTIC WATER HEATER
		EF	EXHAUST FAN	MSB	MOP SINK BASIN
		TYP	TYPICAL		LIGHT LINEWORK = EXISTING OR DEMOLITION
					DARK LINEWORK = NEW

GENERAL MECHANICAL DEMOLITION NOTES

A. CROSSHATCHING INDICATES EXISTING ITEMS AND ASSOCIATED MATERIALS SHALL BE REMOVED.

B. DRAWINGS INDICATE APPROXIMATE ROUTING OF PIPING, DUCTWORK AND MAJOR COMPONENTS AND DO NOT INCLUDE ALL OFFSETS, FITTINGS, VALVES, ETC. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE AND ROUTING PRIOR TO REMOVAL OR RELOCATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL OF MISCELLANEOUS MECHANICAL ITEMS LOCATED ON OR IN ANY WALLS TO BE REMOVED.

C. EXISTING INSULATION DAMAGED DURING DEMOLITION / CONSTRUCTION ACTIVITIES SHALL BE REPAIRED WITH SIMILAR MATERIALS.

D. ALL OPENINGS THROUGH WALLS AND FLOOR SLABS NOT BEING REUSED SHALL BE PATCHED WITH LIKE MATERIALS AND FINISHED AND PAINTED TO MATCH EXISTING.

E. CONTRACTOR SHALL REMOVE ALL MATERIALS AS REQUIRED AND SHALL GIVE THE OWNER THE OPPORTUNITY TO INSPECT SUCH MATERIALS FOR POTENTIAL SALVAGE. CONTRACTOR SHALL REMOVE FROM THE SITE ALL MATERIALS DEEMED "NON-SALVAGEABLE" BY THE OWNER. CONTRACTOR SHALL TURN OVER TO OWNER ALL MATERIALS DEEMED "SALVAGEABLE" BY THE OWNER.

GENERAL PLUMBING NOTES

A. LIGHT LINE WEIGHT INDICATES EXISTING ITEMS AND ASSOCIATED MATERIALS TO REMAIN. BOLD LINE WEIGHT INDICATES NEW WORK TO BE INSTALLED UNDER THIS CONTRACT.

B. ROUTING INDICATED ON DRAWINGS IS APPROXIMATE AND DOES NOT INCLUDE ALL OFFSETS, FITTINGS, VALVES, ETC. CONTRACTOR TO FIELD VERIFY PIPE SIZE AND SERVICE PRIOR TO FINAL CONNECTION. COORDINATE LOCATION OF PLUMBING PIPING WORK WITH LIGHTING, STRUCTURAL MEMBERS, HVAC, PIPING SYSTEMS, ETC. PROVIDE OFFSETS AND CLEARANCES OR RELOCATE PLUMBING WORK AS REQUIRED TO AVOID CONFLICTS WITH WORK OF ALL OTHER TRADES.

C. SUPPORT ALL PLUMBING PIPING, EQUIPMENT, ETC. FROM BUILDING STRUCTURE. HOLD PIPING TIGHT TO BOTTOM OF STRUCTURAL MEMBERS OR RUN THROUGH JOIST WEBS IF POSSIBLE. DO NOT USE WIRE OR PERFORATED METAL TO SUPPORT PIPING. DO NOT SUPPORT PIPING FROM OTHER PIPING, DUCTWORK AND/OR ELECTRICAL CONDUITS. DO NOT SUPPORT FROM BOTTOM OF CHORD OF BAR JOIST OR FROM METAL ROOF DECK.

D. ROUTE ABOVE GRADE DRAINAGE PIPING AS HIGH AS POSSIBLE AND COORDINATE WITH OTHER TRADES.

E. INSTALL ESCUTCHEON PLATES ON ALL WALL AND FLOOR PENETRATIONS SERVING EXPOSED PLUMBING PIPING WALL PENETRATIONS.

F. ALL OPENINGS IN WALLS AND FLOORS FOR PIPING SHALL BE CORE DRILLED OR SAW CUT, UNLESS OTHERWISE NOTED.

G. SEAL ALL PLUMBING PIPING PENETRATIONS. SEAL PENETRATIONS THROUGH RATED WALLS, FLOORS OR CEILINGS WITH MATERIALS APPROPRIATE FOR RATING.

H. COORDINATE EXACT STORM PIPE CONNECTIONS WITH STORM DRAIN LOCATIONS SHOWN ON ARCHITECTURAL ROOF PLAN.

I. REMOVE, REPAIR AND REPLACE WALLS, FLOORS, ROOFS AND CEILINGS TO MATCH EXISTING, WHERE NECESSARY FOR PIPING AND FIXTURE REMOVAL & INSTALLATION.

J. PLUMBING CONTRACTOR SHALL INSTALL ROOF DRAINAGE PIPING AS HIGH AS POSSIBLE IN THE JOIST SPACES TO AVOID ANY DUCTWORK LOCATED BELOW BAR JOISTS. COORDINATE ROUTING WITH SHEET METAL CONTRACTOR BEFORE INSTALLATION.

GENERAL MECHANICAL NOTES

A. LIGHT LINE WEIGHT INDICATES EXISTING ITEMS AND ASSOCIATED MATERIALS TO REMAIN. BOLD LINE WEIGHT INDICATES NEW WORK TO BE INSTALLED UNDER THIS CONTRACT.

B. ROUTING INDICATED ON DRAWINGS IS APPROXIMATE AND DOES NOT INCLUDE ALL OFFSETS, FITTINGS, VALVES, ETC. CONTRACTOR TO FIELD VERIFY DUCT SIZE AND SERVICE PRIOR TO FINAL CONNECTION. COORDINATE LOCATION OF HVAC WORK WITH LIGHTING, STRUCTURAL MEMBERS, PIPING SYSTEMS, ETC. PROVIDE OFFSETS AND CLEARANCES OR RELOCATE HVAC WORK AS REQUIRED TO AVOID CONFLICTS WITH WORK OF ALL OTHER TRADES.

C. HVAC WORK SHALL NOT BE LOCATED OVER ELECTRICAL, DATA, OR COMMUNICATION EQUIPMENT ROOMS. HVAC WORK SHALL NOT BE LOCATED ABOVE ELECTRICAL / DATA / COMMUNICATION EQUIPMENT OR PANELS.

D. SUPPORT ALL DUCTWORK, PIPING, EQUIPMENT, ETC. FROM BUILDING STRUCTURE. HOLD PIPING TIGHT TO BOTTOM OF STRUCTURAL MEMBERS OR RUN THROUGH JOIST WEBS IF POSSIBLE. DO NOT USE WIRE OR PERFORATED METAL TO SUPPORT PIPING. DO NOT SUPPORT PIPING FROM OTHER PIPING, DUCTWORK AND/OR ELECTRICAL CONDUITS. DO NOT SUPPORT FROM BOTTOM OF CHORD OF BAR JOIST OR FROM METAL ROOF DECK.

E. PROVIDE DRAW BANDS AND SEAL END OF DUCT INSULATION ON ALL FLEXIBLE CONNECTIONS. MAXIMUM LENGTH OF FLEXIBLE DUCTS SHALL BE THREE FEET.

F. COORDINATE ALL GRILLE, REGISTER AND DIFFUSER LOCATIONS WITH REFLECTED CEILING PLAN, LIGHT FIXTURES, SPRINKLERS, COMMUNICATION/SOUND DEVICES AND FIRE ALARM DEVICES.

G. INSTALL WALL ANGLE FOR ALL RECTANGULAR DUCT PENETRATIONS THROUGH WALLS.

H. VOLUME DAMPERS ABOVE INACCESSIBLE CEILINGS SHALL HAVE EXTENSION RODS AND ESCUTCHEON PLATES.

I. LOCATE AND INSTALL EQUIPMENT TO PROVIDE ALL CODE AND MANUFACTURER'S RECOMMENDED CLEARANCES. KEEP HVAC PIPING, DUCTWORK, ETC. OUT OF CLEARANCE AREAS.

J. ALL OPENINGS IN WALLS AND FLOORS FOR PIPING SHALL BE CORE DRILLED OR SAW CUT, UNLESS OTHERWISE NOTED.

K. ALL HVAC PIPING WORK SHALL BE LOCATED ABOVE CEILINGS, IN A PIPE CHASE, OR OTHER CONCEALED LOCATIONS, UNLESS OTHERWISE NOTED. LOCATE AND ARRANGE VALVES, DRAIN FITTINGS, ETC. TO BE ACCESSIBLE THROUGH LAY-IN CEILINGS, ACCESS PANELS OR ACCESS DOORS. PROVIDE ACCESS PANEL OR ACCESS DOOR FOR ALL VALVES, DRAIN FITTINGS, ETC. AT NON-ACCESSIBLE LOCATIONS.

L. SLOPE HVAC PIPING TO DRAIN VALVES. PROVIDE MANUAL AIR VENTS AT HIGH POINTS AND AT TOP OF RISERS.

Revisions:	Date

VA FORM 08-6231

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InfraStructure, LLC
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Drawing Title: MECHANICAL SYMBOLS LEGEND AND GENERAL NOTES

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: MKL | Drawn: LMB

Project Number: 636-12-823

Building Number: ONE

Drawing Number: M0.1

Dwg. 23 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

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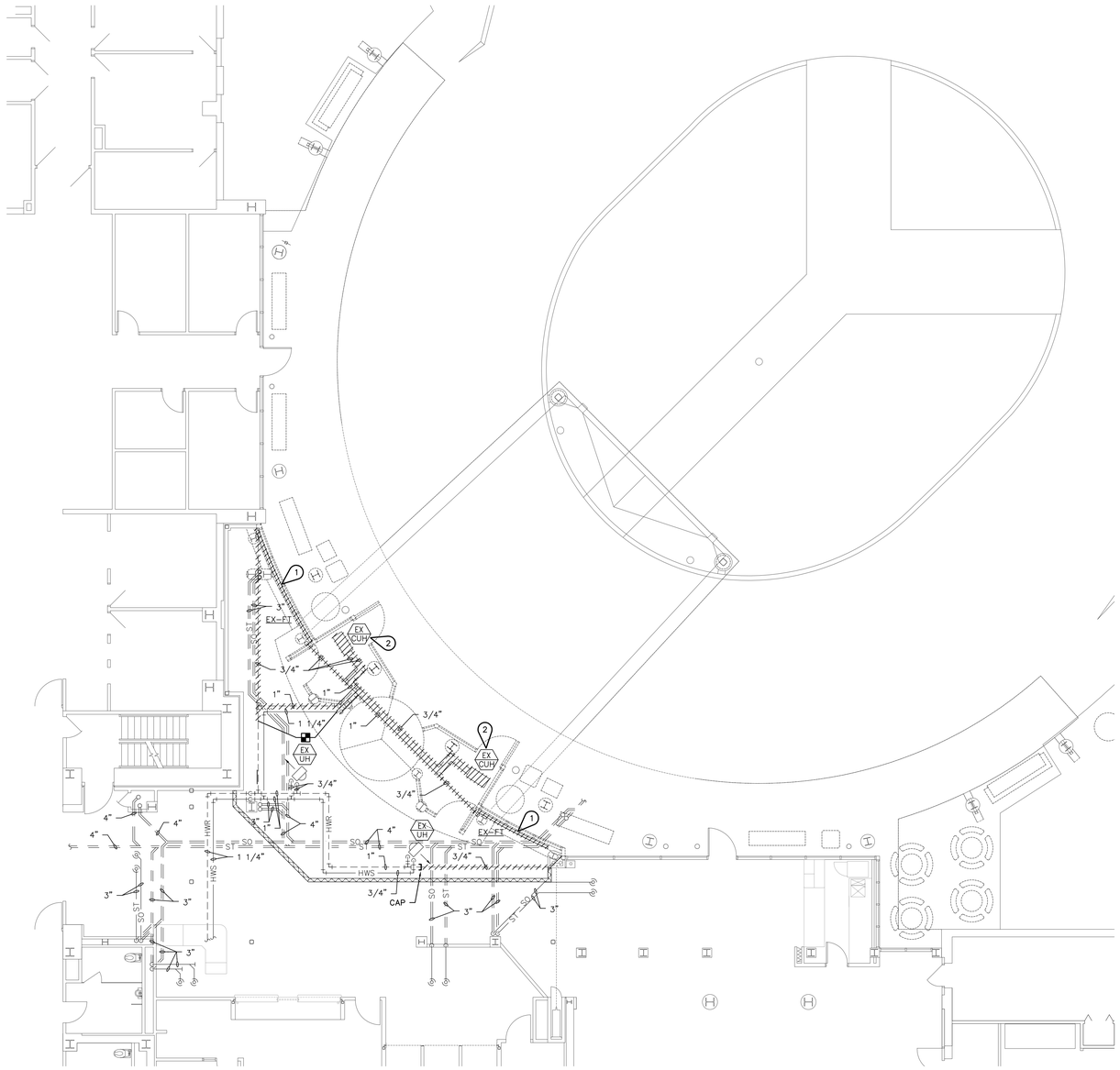
MECHANICAL KEYNOTES: (◇)

1. REMOVE EXISTING FINTUBE AND ALL ASSOCIATED PIPING AND CONTROLS.
2. REMOVE EXISTING CABINET UNIT HEATER AND ALL ASSOCIATED PIPING AND CONTROLS.



1 / M1.1 MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

Revisions:	Date

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Drawing Title: MECHANICAL DEMOLITION PLAN

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

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Project Number: 636-12-823

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Drawing Number: M1.1

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Department of Veterans Affairs

VA FORM 08-6231

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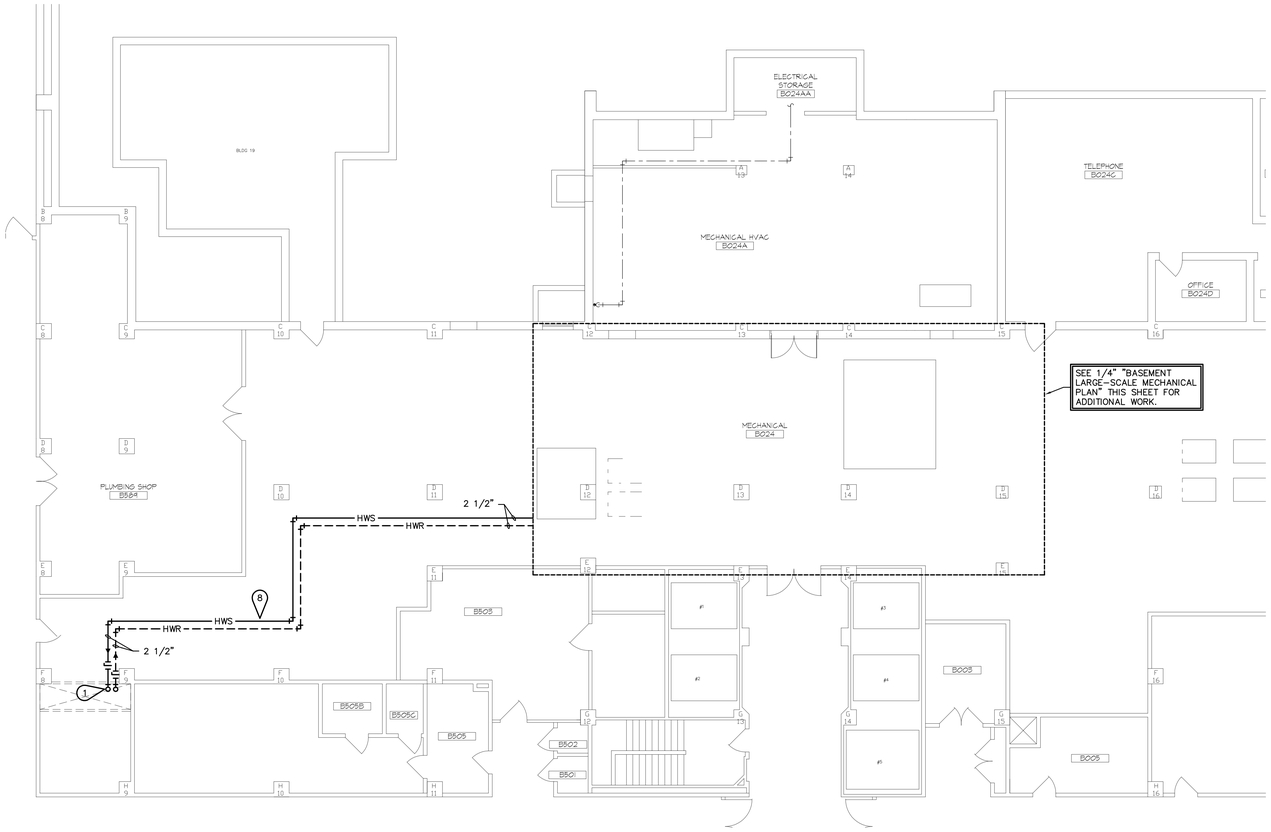
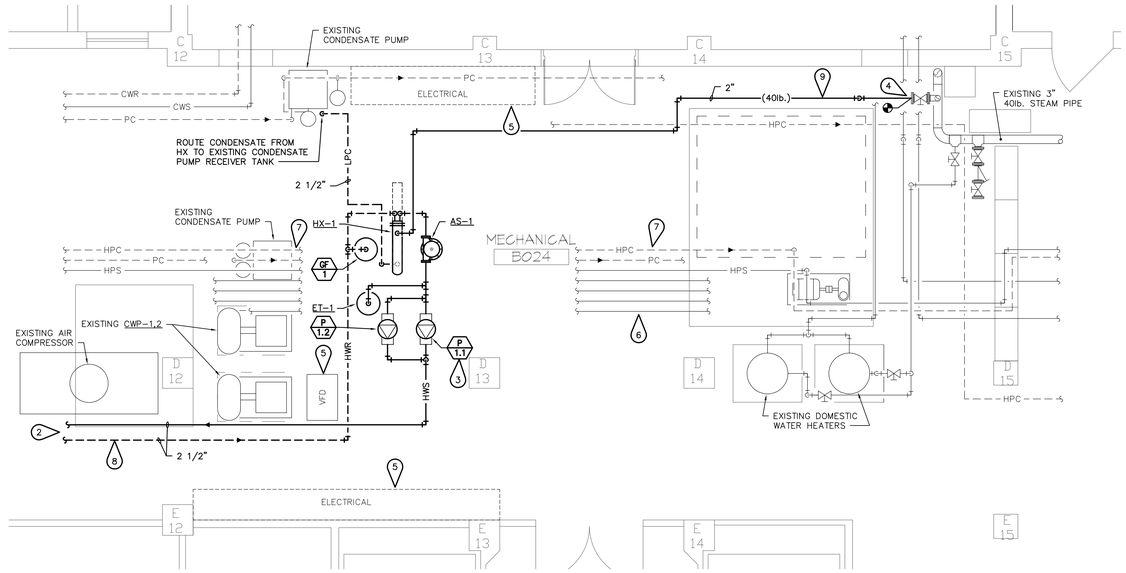
MECHANICAL KEYNOTES: (◇)

1. HWS/HWR UP TO SECOND FLOOR. REFER TO SHEET M2.3 FOR CONTINUATION OF PIPING.
2. REFER TO BASEMENT MECHANICAL PLAN, THIS SHEET, FOR CONTINUATION OF PIPING.
3. PUMPS P1.1, P1.2, HX-1, AS-1, ET-1, GF-1 AND ALL ASSOCIATED CONNECTED PIPING, VALVES, ETC. SHALL BE FACTORY ASSEMBLED ON A PRE-PACKAGED STEEL SKID. INSTALL SKID ON 4" THICK CONCRETE EQUIPMENT PAD. REFER TO **DETAIL 1/M3.1**.
4. CONNECT NEW 2" 40lb. STEAM SUPPLY PIPE TO EXISTING VALVED AND CAPPED PIPE BRANCH.
5. MAINTAIN REQUIRED CLEARANCES IN FRONT OF ALL ELECTRICAL EQUIPMENT.
6. EXISTING OVERHEAD ELECTRICAL CONDUITS AT +6'-10" A.F.F.
7. EXISTING OVERHEAD STEAM AND CONDENSATE PIPING AT +6'-2" A.F.F.
8. MAINTAIN CLEARANCE OF +6'-2" A.F.F. (MIN.) ON ALL NEW PIPING INSTALLATIONS ABOVE WALKWAY AREAS IN THIS ROOM.
9. CONTRACTOR SHALL COORDINATE BEST ROUTING OF NEW PIPING IN THIS AREA WITH EXISTING CONDITIONS.



1 M2.1 BASEMENT MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH



2 M2.1 BASEMENT LARGE-SCALE MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

PLAN NORTH

Revisions:	Date

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Drawing Title: BASEMENT MECHANICAL PLANS

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Drawing Number: M2.1

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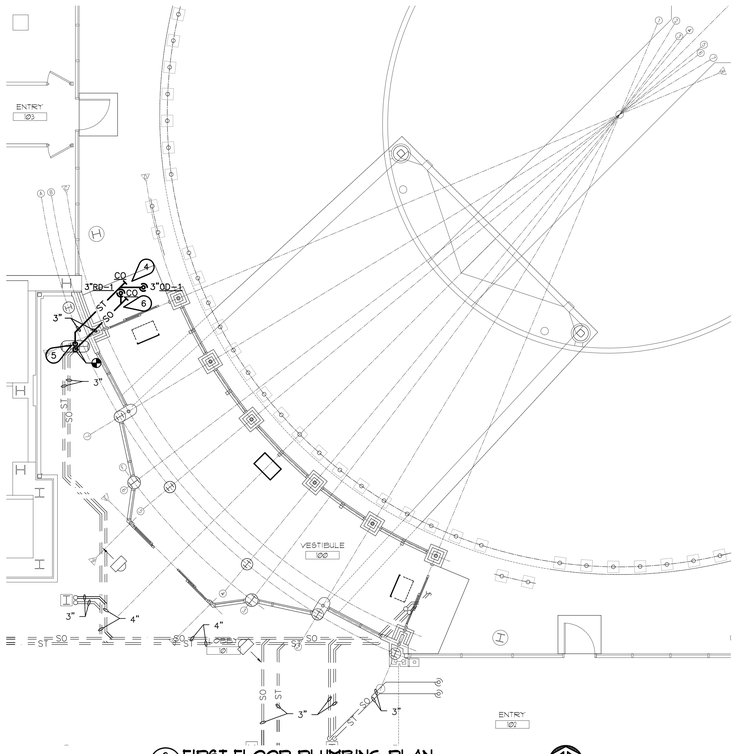
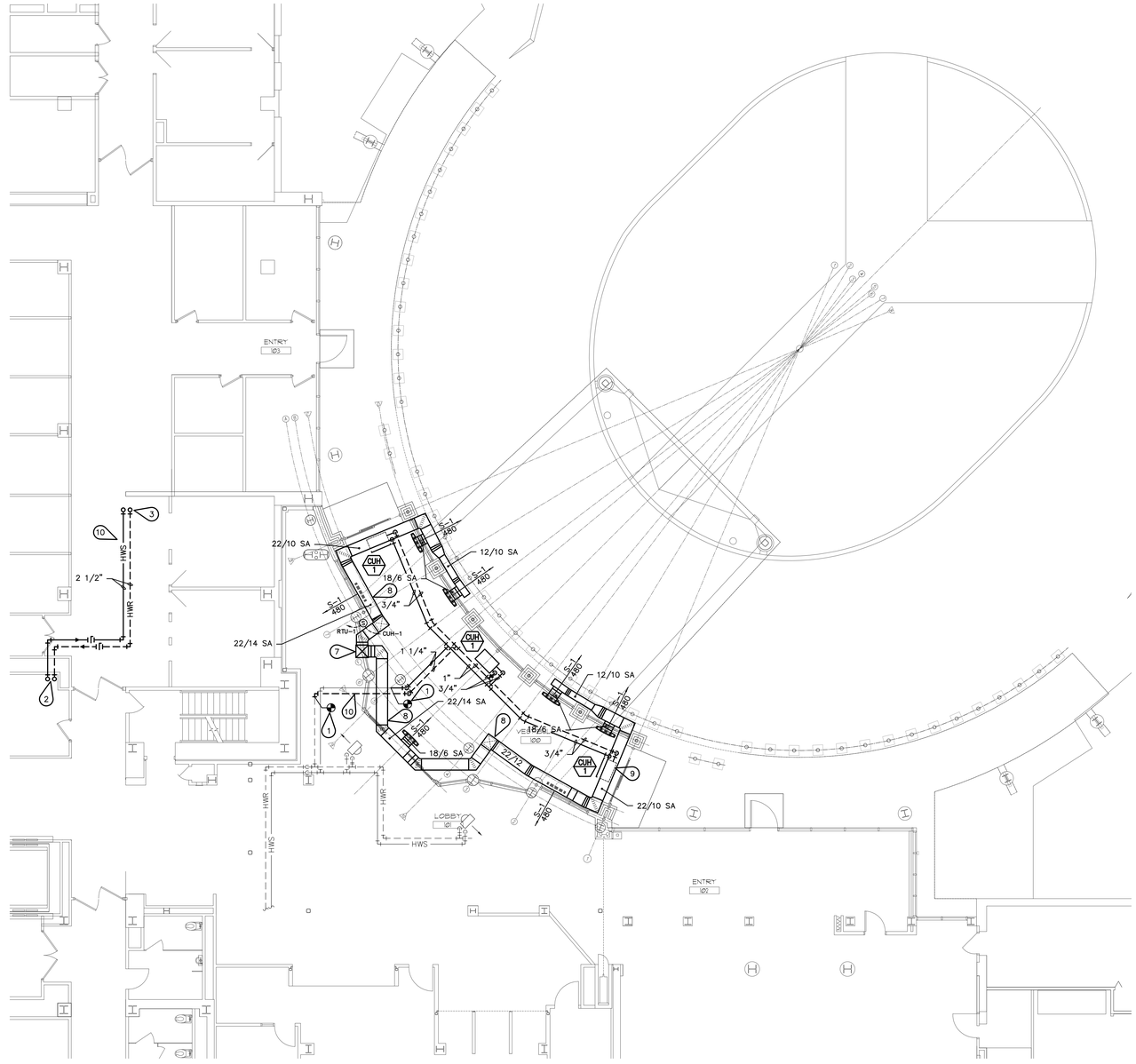


2 M2.2 FIRST FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH



1 M2.2 FIRST FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH

MECHANICAL KEYNOTES: (◇)

1. CONNECT NEW 1 1/4" HWS/HWR TO EXISTING 1 1/4" HWS/HWR.
2. HWS/HWR UP TO SECOND FLOOR. REFER TO SHEET M2.3 FOR CONTINUATION OF PIPING.
3. HWS/HWR UP TO RTU-1. SEE SHEET M2.3.
4. INSTALL STAINLESS STEEL ACCESS PANEL IN BOTTOM OF SIDEWALK CANOPY IN THIS LOCATION TO ALLOW FOR PROPER ACCESS TO STORM PIPING CLEANOUTS. LOCATE ACCESS PANEL OUTSIDE OF VAULTED AREA OF CANOPY.
5. CONNECT NEW 3" STORM AND 3" STORM OVERFLOW PIPING TO EXISTING 3" STORM AND 3" STORM OVERFLOW AND ROUTE DOWN IN COLUMN CHASE TO BELOW GRADE.
6. COORDINATE EXACT STORM AND STORM OVERFLOW PIPING WITH ALL OTHER DISCIPLINES IN THIS AREA TO ALLOW FOR PROPER SLOPE IN CEILING SPACE. ROUTE AS HIGH AS POSSIBLE IN CEILING SPACE. ALL STORM PIPING INSTALLED ABOVE UNCONDITIONED SPACE SHALL BE HEAT TRACED WITH 3W/LF THERMON SELF-REGULATING ELECTRIC HEAT TRACING TAPE. FURNISH WITH SET POINT TEMPERATURE REGULATOR. INSULATE PIPING WITH 1-1/2" FIBERGLASS PIPE INSULATION WITH CEEL-CO 300 PVC JACKETING. COORDINATE WITH ELECTRICAL.
7. 22/22 SA UP. SEE SHEET M2.3 FOR CONTINUATION.
8. ALL DUCTWORK IN VESTIBULE 100 SHALL BE ROUTED IN CEILING SOFFITS. SEE ARCHITECTURAL AND STRUCTURAL CEILING PLANS AND SECTIONS FOR COORDINATION.
9. CUH, INSTALL IN CEILING SOFFIT AND BELOW DUCTWORK. REFER TO **DETAIL 2/M3.1** (TYPICAL).
10. REMOVE AND REPLACE EXISTING CEILING TILES ALONG NEW PIPE ROUTING AS REQUIRED FOR INSTALLATION OF PIPING.

GENERAL FIRE PROTECTION NOTES:

1. EXISTING FIRE PROTECTION SPRINKLER SYSTEM SHALL BE EXTENDED INTO NEW VESTIBULE 100 TO PROVIDE LIGHT HAZARD FIRE PROTECTION TO THIS AREA.
2. NEW SPRINKLERS SHALL MATCH EXISTING SPRINKLER STYLE.
3. COORDINATE CEILINGS IN VESTIBULE 100 WITH ARCHITECTURAL PLANS.
4. REMOVE AND REPLACE EXISTING CEILING TILES IN EXISTING LOBBY AND OTHER AREAS AS REQUIRED TO EXTEND NEW SPRINKLER PIPING FROM EXISTING SYSTEM.

TEMPERATURE CONTROL – SEQUENCE OF OPERATION:

1. GENERAL: EXISTING CONTROL SYSTEM IS AN ANDOVER SYSTEM MAINTAINED BY CSI OF OMAHA. ALL NEW EQUIPMENT SHALL INTERFACE WITH THE EXISTING BMS PER THE FOLLOWING SEQUENCES.
2. RTU-1: ROOFTOP UNIT IS A 100% OUTSIDE AIR SYSTEM. ROOFTOP UNIT INTERNAL CONTROLS SHALL OPERATE UNIT. BMS SHALL CONTROL ON/OFF AND SHALL MONITOR STATUS AND ALARMS. UNIT SUPPLY FAN, COOLING AND HEATING SHALL OPERATE CONTINUOUSLY DURING OCCUPIED OPERATION TO MAINTAIN A POSITIVE DIFFERENTIAL PRESSURE BETWEEN THE NEW VESTIBULE AND THE EXISTING ENTRY LOBBY AND THE OUTDOORS. UNIT SUPPLY FAN, COOLING AND HEATING SHALL MODULATE DURING UNOCCUPIED OPERATION TO MAINTAIN A POSITIVE DIFFERENTIAL PRESSURE BETWEEN THE NEW VESTIBULE AND THE EXISTING ENTRY LOBBY AND THE OUTDOORS. SAME ROOM TEMPERATURE SENSOR THAT CONTROLS CUH-1 SHALL PROVIDE SPACE TEMPERATURE INPUT TO RTU-1 CONTROLS FOR SUPPLY AIR TEMPERATURE RESET.
3. PUMPS P-1.1, P-1.2 AND HX-1: PUMPS SHALL OPERATE AS LEAD/LAG PUMPING SYSTEM ON A CALL FOR HEATING FROM ROOFTOP UNIT RTU-1, HX-1 STEAM CONTROL VALVE SHALL MODULATE TO MAINTAIN THE REQUIRED HEATING WATER SUPPLY TEMPERATURE. BMS SHALL CONTROL PUMP ON/OFF, MONITOR STATUS AND CONTROL STEAM VALVE.
4. CUH-1: ROOM TEMPERATURE SENSOR SHALL CONTROL UNITS THROUGH THE BMS TO MAINTAIN HEATING SETPOINT IN NEW VESTIBULE.
5. GLYCOL FEEDER GF-1: BMS SHALL MONITOR STATUS AND LOW LEVEL ALARM.

Revisions:	Date

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InfraStructure, LLC
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Drawing Title: FIRST FLOOR MECHANICAL AND PLUMBING PLANS

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

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Project Number: 636-12-823

Building Number: ONE

Drawing Number: M2.2

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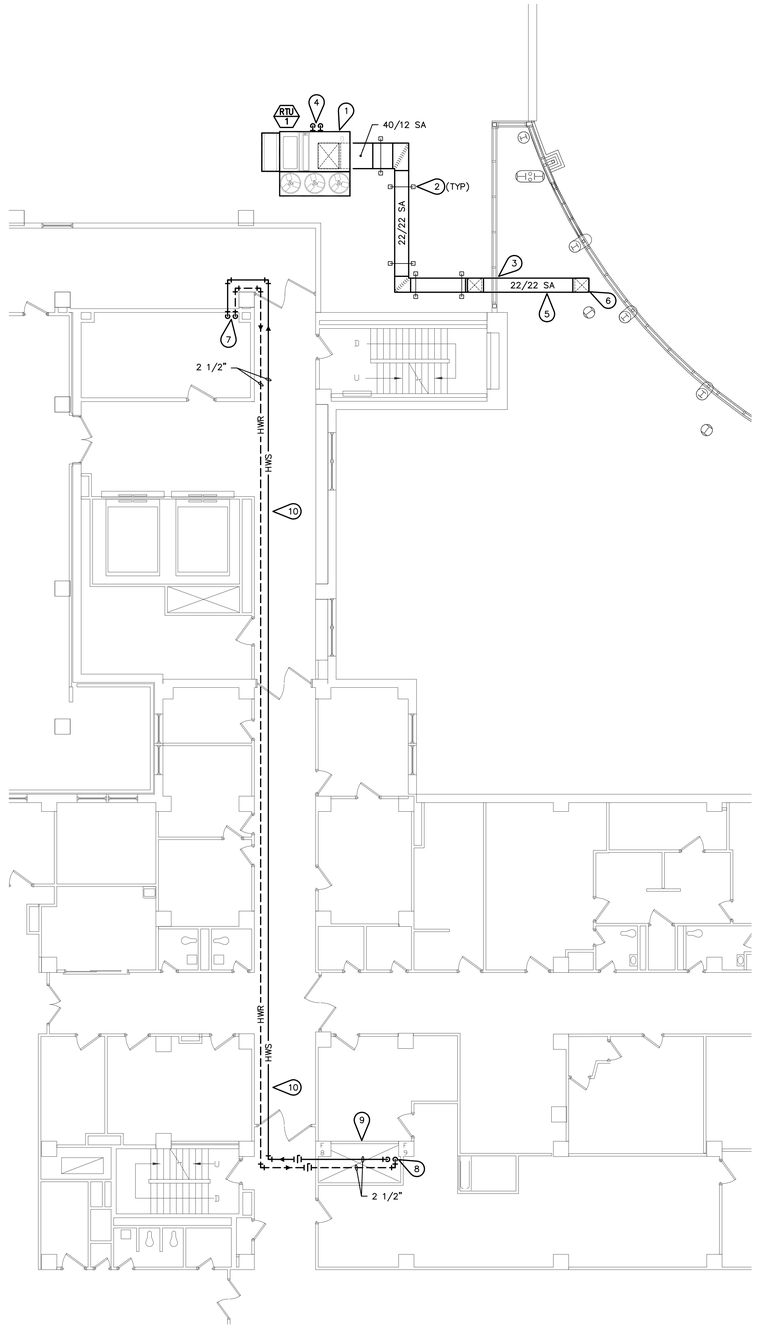

1 M2.3 SECOND FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH

MECHANICAL KEYNOTES: (◇)

1. INSTALL RTU ON FIRST FLOOR ROOF WITH 30-INCH HIGH INSULATED ROOF CURB WITH SUPPLY DUCT PENETRATION THROUGH SIDE OF CURB.
2. PROVIDE GALVANIZED STEEL ANGLE DUCT SUPPORTS FROM ROOF AT 10'-0" INCREMENTS AND AT ELBOWS FOR DUCTWORK INSTALLED ON FIRST FLOOR ROOF.
3. REFER TO ARCHITECTURAL DETAILS AND SECTIONS FOR DUCT PENETRATION THROUGH EXISTING WALL. DUCT PENETRATION THROUGH WALL SHALL BE SEALED WATER-TIGHT.
4. HWS/HWR PIPING UP TO RTU HEATING COIL. REFER TO **DETAIL 3/M3.1**. PIPING SHALL PENETRATE ROOF INSIDE OF ROOF CURB.
5. INSTALL DUCTWORK WITHIN NEW CEILING BULKHEAD, SEE ARCHITECTURAL PLANS AND SECTIONS.
6. 22/22 SA DOWN. SEE SHEET M2.2 FOR CONTINUATION.
7. 2 1/2" HWS/HWR PIPING DOWN TO FIRST FLOOR. SEE SHEET M2.2 FOR CONTINUATION. COORDINATE EXACT LOCATION AND NEW PIPE CHASE ENCLOSURE WITH ARCHITECT.
8. 2 1/2" HWS/HWR PIPING DOWN TO BASEMENT. SEE SHEET M2.1 FOR CONTINUATION.
9. WORK IN THIS CHASE SHALL BE CONSIDERED "CONFINED SPACE" WORK AND SHALL BE ACCOMMODATED AS SUCH BY CONTRACTOR.
10. REMOVE AND REPLACE EXISTING CEILING TILES ALONG NEW PIPE ROUTING AS REQUIRED FOR INSTALLATION OF PIPING. CONTRACTOR SHALL DETERMINE BEST ROUTING OF NEW PIPING THROUGH THIS AREA.

Revisions:	Date

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Drawing Title: SECOND FLOOR MECHANICAL PLAN

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

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MECHANICAL / ELECTRICAL COORDINATION SCHEDULE

ABBREVIATION:

E	ELECTRICAL CONTRACTOR	HP	HORSEPOWER	4X	NEMA 4X	V	VOLTAGE
M	MECHANICAL CONTRACTOR	KW	KILOWATTS	PH	PHASE	VFD	VARIABLE FREQUENCY DRIVE
I	INTEGRAL WITH EQUIPMENT	MR	PER MANUFACTURER'S RECOMMENDATION	RE	REVERSING		
C	COMBINATION STARTER AND SAFETY SWITCH	NF	NON-FUSED	RV	REDUCED VOLTAGE	2S	TWO SPEED
CB	CIRCUIT BREAKER	NR	NON-REVERSING	SF	FUSE HOLDER WITH SWITCH	3S	THREE SPEED
FV	FULL VOLTAGE	N1	NEMA 1	SS	SAFETY SWITCH		
FLA	FULL LOAD AMPS	3R	NEMA 3R	SH	HP RATED SWITCH		
				ST	THERMAL ELEM. SWITCH		

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

MARK	DESCRIPTION	RATING			DISCONNECT					MOTOR STARTER			NAMEPLATE	REMARKS
		LOAD	V	PH	FURNISH/ INSTALL BY	TYPE	RATING (AMPS)	FUSE SIZE	ENCL.	FURNISH/ INSTALL BY	TYPE/ NEMA SIZE	ENCL.	MINIMUM SCCR (AMPS)	
RTU-1	ROOFTOP UNIT	42 FLA	480	3	M/M	I	-	-	-	M/M	-	-		1
CUH-1	CABINET UNIT HEATER	1/4 HP	120	1	E/E	SH	20	MR	N1	M/M	-	-		
P-1.1	HEATING WATER PUMP	2 HP	208	3	E/E	C	30	MR	N1	E/E	FVNR #0	N1	-	
P-1.2	HEATING WATER PUMP	2 HP	208	3	E/E	C	30	MR	N1	E/E	FVNR #0	N1		
GF-1	HEATING WATER GLYCOL FEEDER	1/3 HP	120	1	E/E	SH	20	MR	N1	M/M	-	N1		

GENERAL NOTES:

A. VERIFY/COORDINATE ALL RATINGS FOR EQUIPMENT. WHERE SUCH RATINGS ARE OTHER THAN THAT INDICATED ON MECHANICAL/ELECTRICAL COORDINATION SCHEDULE, PROVIDE DISCONNECTS, MOTOR STARTERS, OVERCURRENT DEVICES AND RELATED REVISIONS ACCORDINGLY. WHERE EQUIPMENT IS PROVIDED WITH RATINGS OTHER THAN THAT INDICATED, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND ASSOCIATED COSTS FOR REVISIONS.

B. PROVIDE FRACTIONAL HORSEPOWER MOTORS WITH INTEGRAL OVERLOAD PROTECTION.

C. EQUIPMENT LISTED IN SCHEDULE MAY APPEAR IN NUMEROUS LOCATIONS. EQUIPMENT MARKS ARE DESIGNATED BY UNIQUE IDENTIFIERS ON THE PLANS; I.E., HP-1.1, HP-1.2. IN THESE INSTANCES, THE ELECTRICAL REQUIREMENTS DO NOT CHANGE FROM ONE MARK TO THE NEXT, ONLY THE UNIQUE IDENTIFIER CHANGES.

D. HORSEPOWER RATED SWITCHES (SH): FOR 120 V MOTORS LESS THAN 1/2 HP, PROVIDE FUSEHOLDER WITH SWITCH, FUSED PER MANUFACTURER'S RECOMMENDATION AND NEC REQUIREMENTS. FOR 120 V MOTORS RATED 1/2 HP OR 3/4 HP, PROVIDE HP RATED TOGGLE SWITCH (WHERE BRANCH CIRCUIT OVERCURRENT DEVICE MEETS NEC REQUIREMENTS FOR SHORT-CIRCUIT PROTECTION) OR FUSED SAFETY SWITCH.

E. INDUSTRIAL CONTROL PANELS AS DEFINED BY NEC ARTICLE 409, MOTOR CONTROLLERS, HERMETIC REFRIGERANT MOTOR COMPRESSORS AND EQUIPMENT SHALL BE MARKED WITH INFORMATION AS REQUIRED BY THE NATIONAL ELECTRICAL CODE (NEC). MARK IN ACCORDANCE WITH NEC ARTICLE 409.110 FOR INDUSTRIAL CONTROL PANELS, NEC ARTICLE 430.8 FOR CONTROLLERS AND NEC ARTICLE 440.4(B) FOR HERMETIC REFRIGERANT MOTOR COMPRESSORS AND EQUIPMENT. THE MARKED SHORT CIRCUIT CURRENT RATING (SCCR) SHALL BE NO LESS THAN THE VALUE INDICATED ABOVE.

REMARKS:

1. PROVIDE INTEGRAL DISCONNECT.

CABINET AND UNIT HEATER SCHEDULE (HOT WATER)

MARK	TYPE	ARRANGEMENT	CFM	HEATING CAP. MBH	GPM	P.D. FT.	EXT. S.P.	FAN RPM	MANUFACTURER & MODEL NO.	REMARKS
CUH-1	CEILING RECESSED	HORIZONTAL	500	32.0	2.1	1.00	0.00"	---	IEC MODEL CPY06	1, 2

REMARKS:

1. SEE MECHANICAL/ELECTRICAL COORDINATION SCHEDULE FOR ELECTRICAL DATA.
2. PROVIDE CEILING RECESSED UNIT WITH BOTTOM SUPPLY AND RETURN GRILLES.

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	SERVES	TOTAL CFM	OA CFM	EXT. SP (IN. WC)	DX COOLING CAP. (MBH)		HEATING COIL			MANUFACTURER & MODEL NO.	REMARKS
					TOTAL	SENSIBLE	CAP. (MBH)	GPM	PRESS. DROP (FT. WC)		
RTU-1	MAIN ENTRANCE	3400	3400	1.5	227	141	356	66	13	AAON RN-20	1 THRU 11

REMARKS:

1. SEE MECHANICAL/ELECTRICAL COORDINATION SCHEDULE FOR ELECTRICAL DATA.
2. COOLING CAPACITY BASED ON 95/75 DEGREES DB/WB EAT. HEATING CAPACITY BASED ON -10 DEGREES EAT.
3. UNIT SHALL BE COMPLETELY FACTORY ASSEMBLED, WIRED, TESTED, AND PROVIDED WITH SINGLE POINT POWER SUPPLY.
4. PROVIDE 2-INCH INSULATED DOUBLE-WALL CONSTRUCTION WITH R-13 INSULATION, SOLID SHEET METAL INNER LINER AND STAINLESS STEEL CONDENSATE DRAIN PAN.
5. PROVIDE DIRECT DRIVE CENTRIFUGAL PLENUM SUPPLY FAN WITH INTEGRAL VFD.
6. UNIT SHALL PROVIDE 100% OUTSIDE AIR WITH 2-POSITION, LOW LEAK AIRFOIL BLADE OUTSIDE AIR DAMPERS.
7. UNIT SHALL PROVIDE PACKAGED DX COOLING WITH DIGITAL VARIABLE CAPACITY COMPRESSOR ON FIRST CIRCUIT, ON-OFF SCROLL COMPRESSOR WITH HOT GAS BYPASS ON SECOND CIRCUIT AND MODULATING HOT GAS REHEAT.
8. PROVIDE UNIT WITH HOT WATER HEATING COIL.
9. PROVIDE 2-INCH PLEATED MERV 8 FILTERS.
10. PROVIDE FACTORY FURNISHED INSULATED SOLID BOTTOM 30-INCH HIGH PLENUM CURB.
11. PROVIDE PROGRAMMABLE MAKE-UP AIR CONTROLS WITH SUPPLY TEMPERATURE RESET BASED ON SPACE DEMAND.

PUMP SCHEDULE

MARK	SERVES	TYPE	GPM	HEAD FT.	RPM	MANUFACTURER & MODEL NO.	REMARKS
P-1.1	RTU HEATING	VERTICAL INLINE	70	35	1,750	PATTERSON MODEL V2C7A-CC	1, 2, 3, 4
P-1.2	RTU HEATING	VERTICAL INLINE	70	35	1,750	PATTERSON MODEL V2C7A-CC	1, 2, 3, 4

REMARKS:

1. SEE MECHANICAL/ELECTRICAL COORDINATION SCHEDULE FOR ELECTRICAL DATA.
2. PROVIDE WITH PREMIUM EFFICIENCY INVERTER-DUTY MOTOR.
3. PUMP SHALL BE MOUNTED ON FACTORY ASSEMBLED AND PACKAGED SKID BY TIGERFLOW OR APPROVED EQUAL.
4. PUMP WORKING FLUID SHALL BE 50% PROPYLENE GLYCOL.

SHELL AND TUBE HEAT EXCHANGER SCHEDULE

MARK	SERVES	TYPE	WATER SIDE (TUBES)				STEAM SIDE (SHELL)		MANUFACTURER & MODEL NO.	REMARKS
			GPM	E.W.T.	L.W.T.	P.D. (FT.)	PSIG	LB/HR		
HX-1	HEATING HOT WATER SYSTEM	STEAM TO HOT WATER	70	140° F	155° F	2.0	40	490	TRUSH MODEL S6-24-2A	1, 2

REMARKS:

1. TUBESIDE WORKING FLUID SHALL BE 50% PROPYLENE GLYCOL.
2. HEAT EXCHANGER SHALL BE MOUNTED ON FACTORY ASSEMBLED AND PACKAGED SKID BY TIGERFLOW OR APPROVED EQUAL.

HYDRONIC SYSTEM SPECIALTIES SCHEDULE

MARK	SERVES	TYPE	GPM	HEAD (FT)	GAL.	CONNECTION (IN)	MANUFACTURER & MODEL NO.	REMARKS
ET-1	HEATING SYSTEM	BLADDER TYPE EXPANSION TANK	---	---	23.0	1	PATTERSON MODEL NLA-85	1, 2
AS-1	HEATING SYSTEM	COELESCING AIR SEPARATOR	70	---	---	2	THRUSH MODEL HVR-2	1
GF-1	HEATING SYSTEM	GLYCOL FEED SYSTEM	---	---	15	---	GENERAL TREATMENT PRODUCTS GP15-E4-1	1

REMARKS:

1. ALL EQUIPMENT SHALL BE MOUNTED ON A FACTORY PRE-ASSEMBLED SKID MANUFACTURED BY TIGERFLOW OR APPROVED EQUAL.
2. FULL ACCEPTANCE VOLUME INDICATED. ASME CERTIFIED TANK.

REGISTER - GRILLE - DIFFUSER SCHEDULE

MARK	FUNCTION	TYPE	CFM RANGE	MAX N.C.	SIZE (INCHES)	BORDER OR FRAME	MATERIAL		FINISH	ACCESS.	MANUFACTURER & MODEL NO.	REMARKS
							ALUM.	STEEL				
S-1	SUPPLY	LINEAR SLOT	480	25	4' LONG X (5) 1-INCH SLOTS	SURFACE MOUNT	X		STND. WHITE	-	KRUEGER SERIES 1900	1, 2, 3

REMARKS:

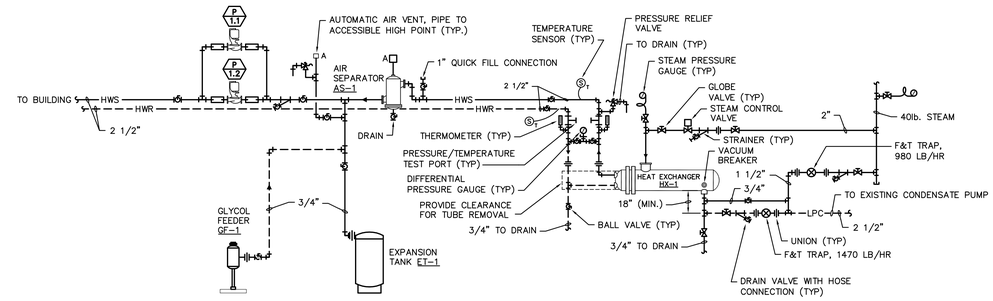
1. PROVIDE SPECIFIC NOISE CRITERIA (NC) DATA FOR EACH LINE ITEM WITH SHOP DRAWINGS.
2. COORDINATE BORDER OR FRAME TYPE WITH CEILING TYPE. SEE ARCHITECTURAL CEILING PLANS.
3. COORDINATE FINISH WITH ARCHITECT.

DUCTWORK INSULATION SCHEDULE

DUCTWORK SYSTEM	ACOUSTICAL LINER	FLEXIBLE FIBERGLASS	RIGID FIBERGLASS	THICKNESS (INCHES)	REMARKS
INDOOR SUPPLY DUCTWORK FROM RTU	---	X	---	2"	---
OUTDOOR SUPPLY DUCTWORK FROM RTU		---	X	2"	1

REMARKS:

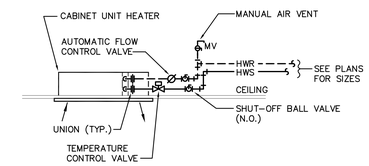
1. PROVIDE FIBERGLASS RIGID BOARD INSULATION AND ALUMINUM WEATHER-TIGHT JACKET.



NOTE: ALL EQUIPMENT, CONNECTING PIPING, VALVES AND FITTINGS SHOWN SHALL BE FACTORY ASSEMBLED ON PRE-PACKAGED SKID.

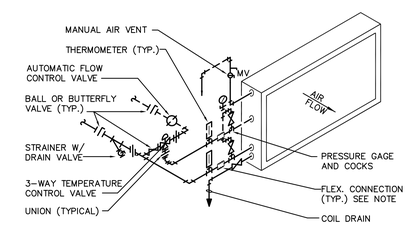
HEATING HOT WATER SYSTEM PIPING SCHEMATIC (1)

NO SCALE



HW CABINET UNIT HEATER PIPING DETAIL (2)

NO SCALE



NOTE: ROUTE ALL PIPING FOR EASY REMOVAL OF THE COIL. DELETE FLEXIBLE CONNECTION IF FAN IS INTERNALLY ISOLATED.

HOT WATER HEATING COIL DETAIL (3-WAY VALVE) (3)

NO SCALE

ROOF DRAIN: RD-1

FIXTURE
CAST IRON ROOF DRAIN WITH DUCO CAST IRON BODY, COMBINED FLASHING CLAMP RING WITH INTEGRAL GRAVEL STOP, LARGE SUMP RECEIVER WITH WIDE ROOF FLANGE, BOTTOM OUTLET, DECK CLAMP ASSEMBLY AND LARGE LOW PROFILE CAST IRON DOME.
J.R. SMITH 1010-CID-R-C.

OVERFLOW DRAIN: OD-1

FIXTURE
OVERFLOW, CAST IRON ROOF DRAIN WITH DUCO CAST IRON BODY, COMBINED FLASHING CLAMP RING WITH INTEGRAL GRAVEL STOP, P.V.C. STANDPIPE (2" WATER DEPTH), LARGE SUMP RECEIVER WITH WIDE ROOF FLANGE, BOTTOM OUTLET, DECK CLAMP ASSEMBLY AND LARGE LOW PROFILE CAST IRON DOME. CONTRACTOR TO MODIFY P.V.C. STANDPIPE TO MEET LOCAL CODE REQUIREMENTS.
J.R. SMITH 1070-CID-R-C.

Revisions:	Date

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InfraStructure, LLC
ENGINEERING CONSULTING GROUP

Drawing Title: MECHANICAL DETAILS AND SCHEDULES

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: MKL | Drawn: LMB

Project Number: 636-12-823

Building Number: ONE

Drawing Number: M3.1

Dwg. 28 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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ELECTRICAL SYMBOLS LEGEND

(AS APPLICABLE)

SWITCHING

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
$a	SINGLE POLE SWITCH - LETTER INDICATES SWITCH LEG	$M	MOMENTARY CONTACT SWITCH
$2	DOUBLE POLE SWITCH	$K	KEY OPERATED SWITCH
$3	THREE-WAY SWITCH	$P	PILOT LIGHT SWITCH
$4	FOUR-WAY SWITCH	$T	TIMER SWITCH
$D	DIMMER SWITCH	$OS	OCCUPANCY SENSOR - WALL SWITCH
$H	HORSEPOWER RATED SWITCH	OS	OCCUPANCY SENSOR - CEILING MOUNTED } DASHED LINE INDICATES GROUPS OF LUMINAIRES TO BE CONTROLLED BY OCCUPANCY SENSOR(S).
$F	FUSED SWITCH	OS	OCCUPANCY SENSOR - WALL MOUNTED }
$TE	THERMAL ELEMENT		
(T)	LOW VOLTAGE SWITCH - NUMBER INDICATES TYPE		

LIGHTING

	FLUORESCENT LUMINAIRE		WALL MOUNTED LUMINAIRE
	FLUORESCENT LUMINAIRE - LAMPS SWITCHED SEPARATE		WALL MOUNTED LUMINAIRE - NIGHT LIGHT
	FLUORESCENT LUMINAIRE WITH AUXILIARY LIGHT		WALL MOUNTED LUMINAIRE - EMERGENCY
	FLUORESCENT LUMINAIRE - EMERGENCY		EXIT SIGN
	FLUORESCENT LUMINAIRE - NIGHT LIGHT		PHOTOCELL, DAYLIGHT SENSOR
	FLUORESCENT WALL MOUNTED LUMINAIRE		EXTERIOR LUMINAIRE - POLE MOUNTED
	FLUORESCENT WALL MOUNTED LUMINAIRE - EMERGENCY		EXTERIOR LUMINAIRE - POLE MOUNTED
	FLUORESCENT WALL MOUNTED LUMINAIRE - NIGHT LIGHT		EXTERIOR LUMINAIRE - POLE MOUNTED
	FLUORESCENT STRIP LUMINAIRE		EXTERIOR LUMINAIRE - POLE MOUNTED
	FLUORESCENT STRIP LUMINAIRE - EMERGENCY		FLOOD LIGHT LUMINAIRE
	FLUORESCENT STRIP LUMINAIRE - NIGHT LIGHT		EMERGENCY BATTERY PACK
	LUMINAIRE		EMERGENCY LUMINAIRE REMOTE HEADS
	LUMINAIRE - NIGHT LIGHT		COMBINATION EXIT SIGN/EMERGENCY LIGHTING UNIT
	LUMINAIRE - EMERGENCY		TRACK LUMINAIRE

POWER DEVICES

	SINGLE RECEPTACLE		LIGHTING & APPLIANCE PANELBOARD
	DUPLEX RECEPTACLE		POWER DISTRIBUTION EQUIPMENT
	FOUR-PLEX RECEPTACLE - TWO DUPLEX RECEPTACLES	T	TRANSFORMER
	RANGE RECEPTACLE		ENCLOSED CIRCUIT BREAKER
	SPECIAL RECEPTACLE		CABINET (TYPE INDICATED)
G	DUPLEX RECEPTACLE - GROUND-FAULT CIRCUIT-INTERRUPTER		MOTOR STARTER, LIGHTING CONTACTOR
IG	DUPLEX RECEPTACLE - ISOLATED GROUND		SAFETY SWITCH
WR	DUPLEX RECEPTACLE - WEATHER-RESISTANT GROUND-FAULT CIRCUIT-INTERRUPTER		COMBINATION MOTOR STARTER & SAFETY SWITCH
A	DUPLEX RECEPTACLE - ON APPLIANCE CIRCUIT		MOTOR
T	DUPLEX RECEPTACLE - TAMPER-RESISTANT	J	CORD DROP (J-BOX AT CEILING)
F	DUPLEX RECEPTACLE - ARC-FAULT RATED		CORD DROP (SPECIAL RECEPTACLE AT CEILING)
M	DUPLEX RECEPTACLE - MOUNTED IN MILLWORK		MULTI-OUTLET ASSEMBLY
B	DUPLEX RECEPTACLE - MOUNTED BELOW COUNTER		FLUSH FLOOR BOX
	DUPLEX RECEPTACLE - CEILING MOUNTED		FLUSH POKE-THRU
	DUPLEX RECEPTACLE - BOTTOM HALF SWITCHED		DAMPER
	SPLIT-WIRE RECEPTACLE	S	SOLENOID
J	JUNCTION BOX		

RACEWAYS

	HOME RUN TO PANEL	T	TELEPHONE CONDUIT
	UNSWITCHED LIGHTING CIRCUIT		CONDUIT UP
	MASTER SATELLITE FIXTURE CONNECTION		CONDUIT DOWN
E	EMERGENCY CIRCUIT		CONDUIT SEAL
NL	NIGHT LIGHTING CIRCUIT		CABLE TRAY
S	SOUND SYSTEM RACEWAY	#	CONDUIT SLEEVE (NUMBER INDICATES SIZE)

MISCELLANEOUS

X/Y Z	EQUIPMENT IDENTIFICATION TAG	NF	NON-FUSED
XXX	DETAIL REFERENCE / SHEET REFERENCE	WP	WEATHER-PROOF
FACP	FIRE ALARM CONTROL PANEL	WG	WIRE GUARD
FAAP	FIRE ALARM ANNUNCIATOR PANEL	XP	EXPLOSION PROOF
H/O/A	HAND-OFF-AUTO	30/3/10/3R	RATED AMPACITY/NO. POLES/FUSING REQ'D/NEMA ENCL. NO.
CCT.	CIRCUIT	X	PROJECTOR INPUT STATION - LETTER INDICATES TYPE
PART. CCT.	PARTIAL CIRCUIT		PROJECTOR CONTROL STATION
			LIGHT LINEWORK = EXISTING OR DEMOLITION
			DARK LINEWORK = NEW

COMMUNICATIONS

	TELEPHONE CABINET	C	CLOCK HANGER OUTLET
W	TELEPHONE OUTLET - WALL MOUNTED	C	CLOCK - WALL MOUNTED
#	TELEPHONE OUTLET BOX } NUMBER BY SYMBOL INDICATES QUANTITY OF JACKS. ZERO INDICATES EMPTY OUTLET BOX, BLANK PLATE AND CONDUIT.	C 2	CLOCK - CEILING MOUNTED (DOUBLE FACE)
#	DATA OUTLET BOX }	CS	CLASSROOM CLOCK & SPEAKER
#	PHONE OUTLET BOX - CEILING MOUNTED }	P	PROGRAM BELL
#	DATA OUTLET BOX - CEILING MOUNTED }		INTERCOM CALL SWITCH
	COMBINATION TELEPHONE/DATA OUTLET BOX - ONE JACK EACH	X	INTERCOM ADMINISTRATION STATION (LETTER INDICATES TYPE)
	DATA OUTLET BOX - BLANK PLATE, 1" CONDUIT	X	INTERCOM CLASSROOM/STAFF STATION (LETTER INDICATES TYPE)
M #	MICROPHONE OUTLET (NUMBER INDICATES QUANTITY)	X	AUDIO/VISUAL AUXILIARY OUTLET (LETTER INDICATES TYPE)
M #	MICROPHONE OUTLET - WALL MOUNTED (NUMBER INDICATES QUANTITY)	A	T.V. ANTENNA OUTLET
L #	LINE INPUT OUTLET (NUMBER INDICATES QUANTITY)	V	INTERCOM/PAGING VOLUME CONTROL
L #	LINE INPUT OUTLET - WALL MOUNTED (NUMBER INDICATES QUANTITY)	V	SOUND SYSTEM VOLUME CONTROL
S	INTERCOM/PAGING SPEAKER - CEILING MOUNTED		GROUND BAR
S	INTERCOM/PAGING SPEAKER - WALL MOUNTED		NOTE: SYMBOLS SHOWN "STACKED" ON THE FLOOR PLANS INDICATE THAT THE DEVICES ARE TO BE LOCATED IN THE SAME OUTLET BOX AND FACEPLATE. (I.E. 1 2)
S	INTERCOM/PAGING SPEAKER HORN - WALL MOUNTED		
S	SOUND SYSTEM SPEAKER - CEILING MOUNTED		
S	SOUND SYSTEM SPEAKER - WALL MOUNTED		

FIRE ALARM

H R/T	HEAT DETECTOR - COMBINATION		FIRE ALARM COMBINATION SPEAKER/VISUAL - WALL MOUNTED
H F	HEAT DETECTOR - FIXED TEMPERATURE	F	FIRE ALARM BELL - WALL MOUNTED
H EV	HEAT DETECTOR - FIXED TEMPERATURE (CONNECTED TO ELEVATOR RECALL)	F	FIRE ALARM HORN - CEILING MOUNTED
S	SMOKE DETECTOR		FIRE ALARM VISUAL SIGNAL - CEILING MOUNTED
S DM	SMOKE DETECTOR - DUCT MOUNTED		FIRE ALARM COMBINATION HORN/VISUAL - CEILING MOUNTED
S EV	SMOKE DETECTOR (CONNECTED TO ELEVATOR RECALL)	F	FIRE ALARM SPEAKER - CEILING MOUNTED
F	FIRE ALARM MANUAL STATION		FIRE ALARM COMBINATION SPEAKER/VISUAL - CEILING MOUNTED
F	FIRE ALARM HORN - WALL MOUNTED		FLOW SWITCH
	FIRE ALARM VISUAL SIGNAL - WALL MOUNTED		TAMPER SWITCH
	FIRE ALARM COMBINATION HORN/VISUAL - WALL MOUNTED		DUCT DETECTOR REMOTE ALARM INDICATOR
F	FIRE ALARM SPEAKER - WALL MOUNTED	R	FAN SHUT-DOWN RELAY
			MAGNETIC DOOR HOLDER

SECURITY

	PUSHBUTTON STATION		MOTION DETECTOR
	PUSHBUTTON STATION, 'P' INDICATES PILOT	KP	KEYPAD
	DOOR MONITOR SWITCH	ES	ELECTRIC STRIKE
	DOOR SWITCH	CR	CARD READER
	DOOR BELL CHIME/BUZZER	PS	POWER SUPPLY
	DOOR CONTACT		SECURITY CAMERA

GENERAL ELECTRICAL DEMOLITION NOTES

A. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL ELECTRICAL WIRING, CONDUIT, SWITCHES, DISCONNECTS, LIGHTING FIXTURES AND OTHER ASSOCIATED ITEMS AS SHOWN. THE ITEMS INDICATED SPECIFICALLY ON THE DRAWINGS TO BE REMOVED ARE ONLY TO INDICATE IN GENERAL TO THE CONTRACTOR THE AMOUNT OF DEMOLITION WORK INVOLVED. A SITE INVESTIGATION BY THE CONTRACTOR SHOULD BE PERFORMED TO AID IN DETERMINING THE COMPLETE EXTENT OF WORK INVOLVED.

B. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL NECESSARY POWER OUTAGES WITH THE OWNERS REPRESENTATIVE PRIOR TO PROCEEDING WITH SUCH WORK TO INSURE THAT OPERATIONS IN ADJACENT OCCUPIED PORTIONS OF THE BUILDING ARE NOT INTERRUPTED OR RESTRICTED WITHOUT PRIOR APPROVAL.

C. ALL EXISTING BRANCH CIRCUITS BEING REMOVED SHALL BE REMOVED AS COMPLETELY AS POSSIBLE. EXISTING CONDUCTORS SHALL BE REMOVED COMPLETELY FROM THEIR RACEWAYS, DISPOSED OF AS SCRAP, REMOVED FROM SITE AND NOT REUSED EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. WHERE AN EXISTING DEVICE IS SHOWN REMOVED FROM AN EXISTING CIRCUIT, NEW WIRING SHALL BE PROVIDED AS REQUIRED TO ENSURE CONTINUITY OF EXISTING CIRCUIT. ELECTRICAL RACEWAYS WHERE STUBBED FROM A CONCRETE FLOOR OR WALL SHALL BE CHISELED 2 INCHES BELOW SURFACE, GROUTED AND SCREED.

D. ALL EXISTING LIGHT FIXTURES, LAMPS, AND ELECTRICAL EQUIPMENT SHOWN TO BE REMOVED SHALL BE REMOVED BY THE CONTRACTOR. EXISTING FIXTURES AND EQUIPMENT CONSIDERED SALVAGEABLE BY THE OWNER AND NOT SHOWN TO BE REUSED SHALL BE TURNED OVER TO THE OWNER OR REMOVED FROM SITE AS DIRECTED BY OWNER. LAMPS AND BALLASTS THAT ARE CONSIDERED AS HAZARDOUS WASTE SHALL BE DISPOSED OF PROPERLY.

E. ALL EXISTING SURFACE MOUNTED BACKBOXES, CONDUIT, WIREWAY, JUNCTION BOXES, ETC. SHOWN REMOVED SHALL BE REMOVED IN THEIR ENTIRETY. ALL RECESSED BACKBOXES, JUNCTION BOXES SHOWN REMOVED SHALL BE ABANDONED IN PLACE AND COVERED WITH STAINLESS STEEL COVER PLATES. ALL RECESSED CONDUIT SHALL BE ABANDONED IN PLACE AND CAPPED OFF IN A SUITABLE MANNER PER LOCAL INSPECTORS REQUIREMENTS.

F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING OR REPLACEMENT OF ALL WALL, CEILING, OR OTHER BUILDING ELEMENTS WHICH ARE DISTURBED AS PART OF THE DEMOLITION OR INSTALLATION OF ELECTRICAL WORK.

G. REMOVE ELECTRICAL CONNECTIONS TO ALL MECHANICAL EQUIPMENT BEING REMOVED BY DIVISION 23. COORDINATE EQUIPMENT REMOVAL LOCATIONS WITH MECHANICAL DRAWINGS.

H. COORDINATE EXISTING BOXES AND CONDUIT WHICH ARE TO BE REUSED WITH NEW WORK AS INDICATED ON LIGHTING AND POWER DRAWINGS.

GENERAL ELECTRICAL NOTES

A. ALL WIRING SHALL BE INSTALLED IN CONTINUOUS RACEWAY.

B. ALL CONDUITS IN NEW WALLS, EXISTING STUD WALLS, OR IN AREAS WITH SUSPENDED CEILINGS SHALL BE INSTALLED CONCEALED.

C. BRANCH CIRCUIT AND SPECIAL SYSTEMS WIRING FOR DEVICES ON EXISTING WALLS OR EXPOSED CEILINGS WHERE RACEWAY CANNOT BE CONCEALED SHALL BE INSTALLED IN SURFACE METAL RACEWAY.

D. ALL EXPOSED RACEWAY IN ROOMS TO BE PAINTED SHALL BE PAINTED TO MATCH SURROUNDING SURFACE. COORDINATE FINISHES WITH ARCHITECT. ALL EXPOSED RACEWAY AND FITTINGS IN ROOMS WHICH ARE NOT TO BE PAINTED SHALL BE WIREMOLD #V500 OR #V700 SERIES WITH FACTORY IVORY FINISH.

E. SURFACE RACEWAY FOR TELECOMMUNICATION CABLE SHALL NOT BE SMALLER THAN WIREMOLD #V2400. ALL FITTINGS FOR TELECOMMUNICATION RACEWAYS SHALL COMPLY WITH EIA STANDARDS FOR BEND RADIUS.

F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING OR REPLACEMENT OF ALL WALLS, CEILINGS, OR OTHER BUILDING ELEMENTS WHICH ARE DISTURBED AS PART OF THE DEMOLITION OR INSTALLATION OF ELECTRICAL WORK.

G. REFER TO MECHANICAL/ELECTRICAL COORDINATION SCHEDULE SHEET M3.1 FOR ADDITIONAL REQUIREMENTS FOR DISCONNECTS, MOTOR STARTERS, ETC.

H. LABELING FOR PANELBOARD DIRECTORIES, FIRE ALARM PANEL PROGRAMMING, ETC. SHALL USE ROOM NUMBERS ASSIGNED BY OWNER AND NOT ROOM NUMBERS LISTED ON DRAWINGS. LABELS ON PANELBOARD DIRECTORY SHALL INCLUDE A DESCRIPTION OF LOAD SUCH AS LIGHTS, RECEPTACLES, MECH. UNIT LOCATIONS, ETC.

I. MULTIWIRE BRANCH CIRCUITS AS DEFINED BY THE NATIONAL ELECTRICAL CODE (CIRCUITS WITH COMMON NEUTRAL) SHALL NOT BE USED. EXCEPTION: WHERE AN EQUIPMENT MANUFACTURER REQUIRES A MULTIWIRE BRANCH CIRCUIT FOR ONLY ONE UTILIZATION EQUIPMENT AND WHERE ALL UNGROUNDED CONDUCTORS OF THAT CIRCUIT ARE OPENED SIMULTANEOUSLY BY THE BRANCH CIRCUIT OVERCURRENT DEVICE.

J. A CABLE OR RACEWAY TYPE WIRING METHOD, INSTALLED IN EXPOSED OR CONCEALED LOCATIONS NEAR METAL-CORRUGATED SHEET ROOF DECKING, SHALL BE INSTALLED AND SUPPORTED SO THE NEAREST OUTER SURFACE OF THE CABLE OR RACEWAY IS NOT LESS THAN 6 INCHES FROM THE NEAREST SURFACE OF THE ROOF DECKING. EXCEPTION: RIGID METAL CONDUIT AND INTERMEDIATE METAL CONDUIT SHALL NOT BE REQUIRED TO MAINTAIN THIS CLEARANCE.

Revisions:	Date

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Drawing Title: ELECTRICAL SYMBOLS AND GENERAL NOTES

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: RJH | Drawn: DMM

Project Number: 636-12-823

Building Number: ONE

Drawing Number: E0.1

Dwg. 29 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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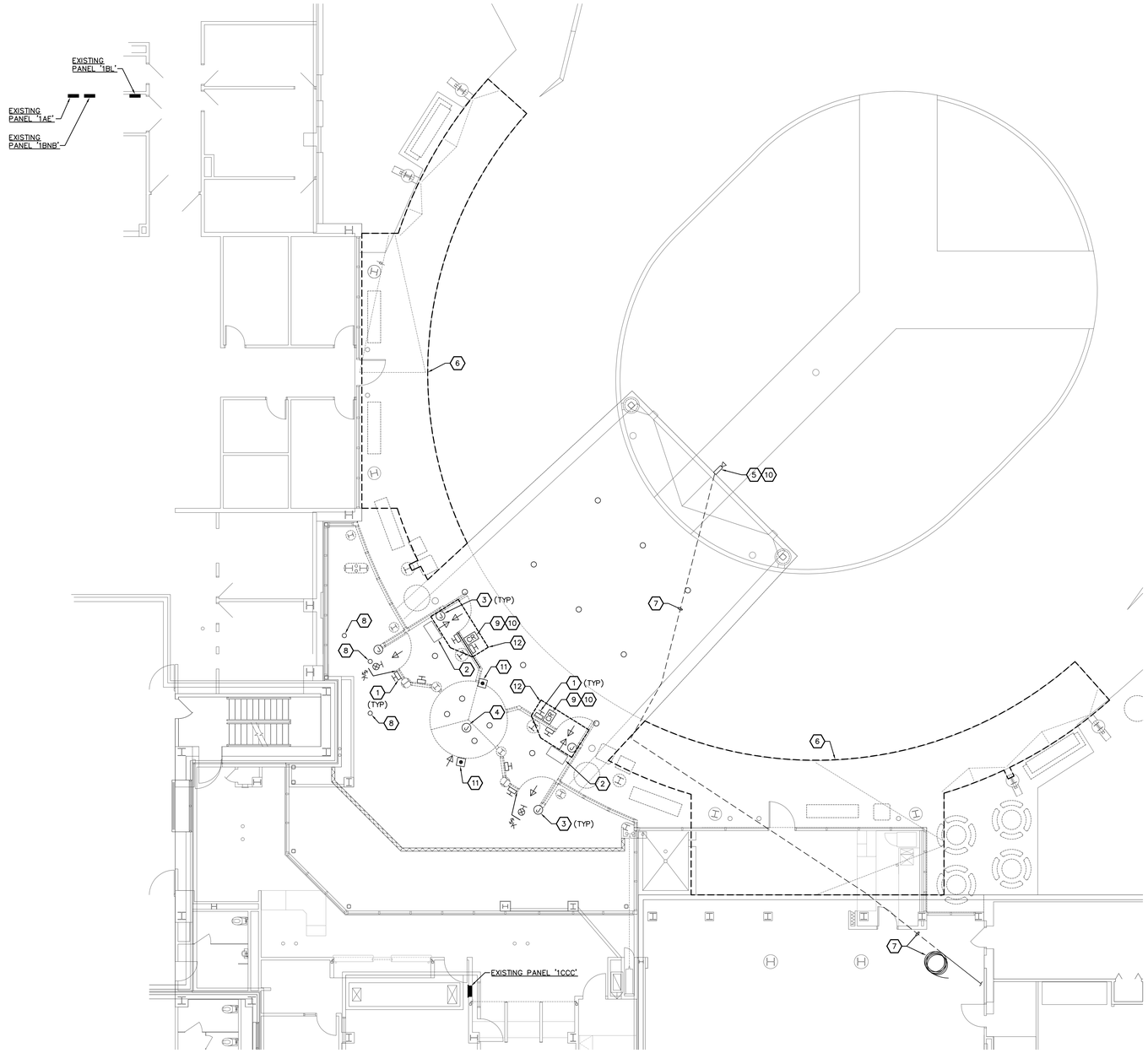
SEE 'GENERAL ELECTRICAL DEMOLITION NOTES', SHEET E0.1, FOR ADDITIONAL ELECTRICAL REQUIREMENTS



1 E1.1 PARTIAL FIRST FLOOR ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH

ELECTRICAL DEMOLITION KEYNOTES: (⬡)

1. DISCONNECT AND REMOVE DOOR ACTUATOR FROM DOOR OR WINDOW MULLION UNLESS NOTED OTHERWISE (SEE KEYNOTE 12).
2. REMOVE ELECTRICAL CONNECTION TO HVAC EQUIPMENT.
3. REMOVE ELECTRICAL CONNECTION TO DOOR OPERATOR. RETAIN EXISTING CIRCUITING IN SPACE FOR EXTENSION AND CONNECTION TO TEMPORARY 'MAIN' ENTRY AND PERMANENT NEW ENTRY DOOR OPERATOR. EXISTING CIRCUIT ORIGINATES OUT OF PANEL '1CCB'. SEE SHEET E3.2 FOR EXISTING PANEL '1CCB' LOCATION.
4. REMOVE 208 VOLT, SINGLE PHASE ELECTRICAL CONNECTION TO REVOLVING DOOR. RETAIN EXISTING CIRCUITING IN SPACE FOR EXTENSION AND CONNECTION TO NEW DOOR OPERATOR. EXISTING CIRCUIT ORIGINATES OUT OF PANEL '1CCB'. SEE SHEET E3.2 FOR EXISTING PANEL '1CCB' LOCATION.
5. DISCONNECT AND CAREFULLY REMOVE SECURITY CAMERA AND MOUNTING BRACKET. SALVAGE AND PROTECT SECURITY CAMERA AND MOUNTING BRACKET FOR REINSTALLATION UPON COMPLETION OF CANOPY WORK.
6. REMOVE LIGHTNING PROTECTION SYSTEM (AIR TERMINALS, LOOP CONDUCTOR, BONDS, CABLE HOLDERS, ETC.) IN ITS ENTIRETY AT ROOF LEVEL WITHIN OUTLINED AREA. MAINTAIN DOWNLEAD CONNECTION(S) AT EXISTING STRUCTURAL STEEL AND CONNECTION(S) BETWEEN ADJACENT ROOF SYSTEMS AS APPLICABLE FOR RECONNECTION TO NEW LIGHTNING PROTECTION SYSTEM.
7. APPROXIMATE ROUTING OF SECURITY CAMERA CABLING IN LIQUIDTIGHT, FLEXIBLE METAL CONDUIT LAID ACROSS THE TOP OF EXISTING MULTIPLE ROOF LEVELS. DISCONNECT CAMERA (KEYNOTE 5), PULL BACK RACEWAY, WITH CABLING, FROM ACROSS ROOFS AND COIL AT APPROXIMATE LOCATION INDICATED TO ALLOW FOR ROOF WORK IN REMODELED AREA(S). SALVAGE AND PROTECT EXISTING SECURITY CAMERA CABLING AND RACEWAY THROUGHOUT PROJECT FOR RECONNECTION TO RELOCATED CAMERA.
8. DISCONNECT AND REMOVE EXISTING DOWNLIGHT INSTALLED AT CLERESTORY CEILING TO MISS CONSTRUCTION OF HORIZONTAL DUCTWORK CHASE. SALVAGE, STORE AND PROTECT LUMINAIRE FOR REINSTALLATION IN EXISTING CEILING. RETAIN EXISTING, SWITCHED LIGHTING CIRCUIT IN EXISTING SPACE FOR RECONNECTION TO RELOCATED LUMINAIRE. REFER TO SHEET E2.1, KEYNOTE 7, FOR ADDITIONAL INFORMATION.
9. DISCONNECT AND CAREFULLY REMOVE SECURITY SYSTEM KEY PACS CARD READER INSTALLED TO WINDOW MULLION. RETAIN EXISTING SECURITY SYSTEM WIRING IN SPACE FOR EXTENSION AND RECONNECTION TO RELOCATED CARD READER. SALVAGE AND PROTECT KEY PACS CARD READER AND SYSTEM WIRING FOR REINSTALLATION AT TEMPORARY 'MAIN' (EXISTING) ENTRY AND PERMANENT NEW ENTRY DOOR(S) OPENING SYSTEM.
10. COORDINATE DISCONNECTION OF SECURITY SYSTEM DEVICE WITH VAMC SECURITY PERSONNEL.
11. REMOVE EXTERNAL ELECTRICAL CONNECTIONS TO REVOLVING DOOR EMERGENCY STOP PUSHBUTTONS, AS APPLICABLE, TO ALLOW FOR THE REMOVAL OF DOOR.
12. EXISTING DOOR AND ASSOCIATED OPERATOR, ACTUATORS, SENSORS, SECURITY DEVICES AND CONNECTIONS, AND INTERCONNECTING CIRCUITING (WITHIN OUTLINE) WILL BE RELOCATED TO A TEMPORARY 'MAIN' ENTRANCE DURING ENTRY REMODEL. DISCONNECT ALL EXTERNAL ELECTRICAL CONNECTIONS AS NECESSARY TO ALLOW DOOR TO BE REMOVED AND RELOCATED. RETAIN ALL EXTERNAL ELECTRICAL CONNECTIONS FOR RECONNECTION TO RELOCATED DOOR (ALSO SEE KEYNOTES 3 AND 9 THIS SHEET).

Revisions:	Date

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InfraStructure, LLC
ENGINEERING CONSULTING GROUP

Drawing Title: PARTIAL FIRST FLOOR ELECTRICAL DEMOLITION PLAN

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: RJH | Drawn: DMM

Project Number: 636-12-823

Building Number: ONE

Drawing Number: E1.1

Dwg. 30 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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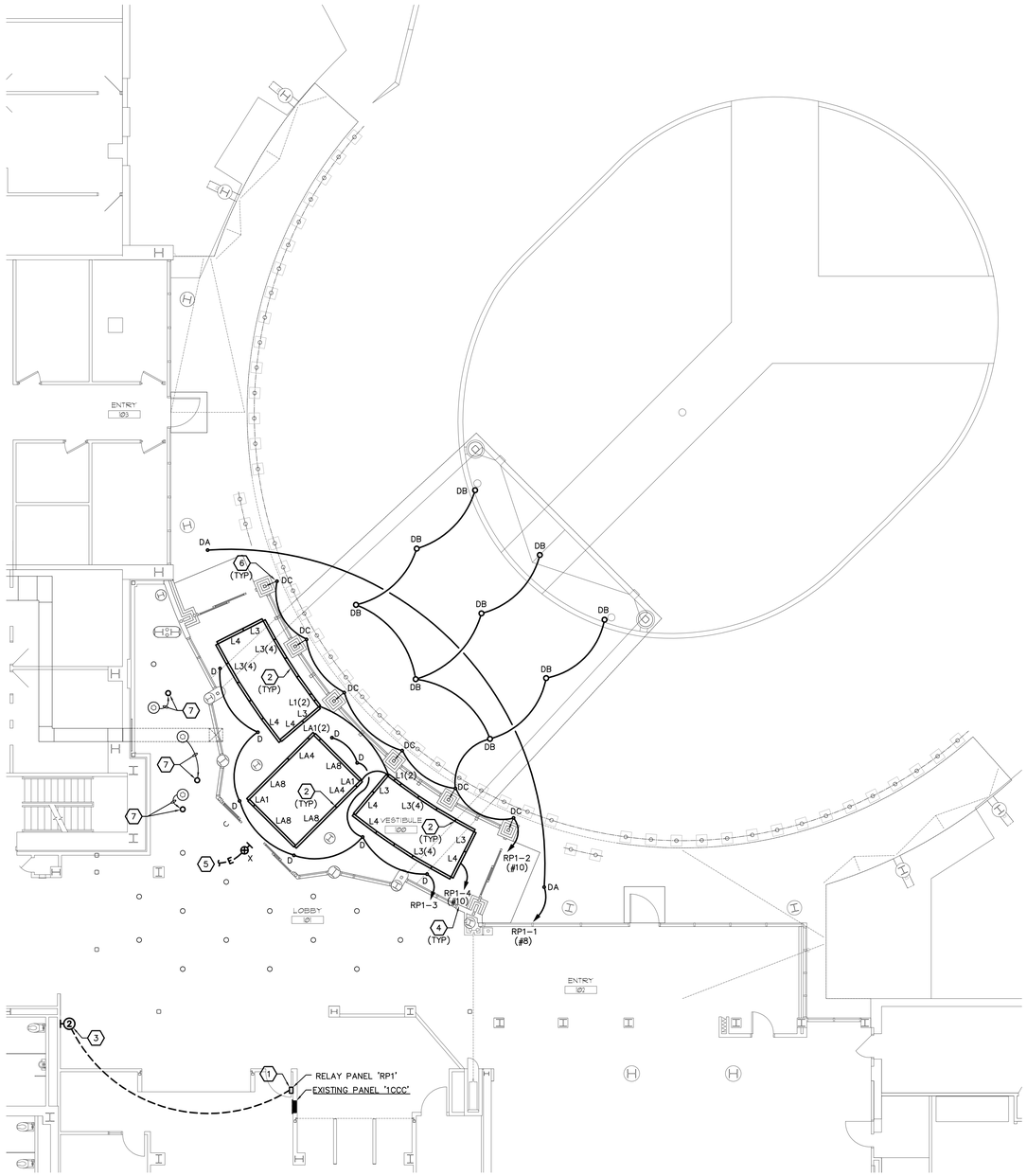
SEE 'GENERAL ELECTRICAL NOTES', SHEET E0.1, FOR ADDITIONAL ELECTRICAL REQUIREMENTS



1 E2.1 PARTIAL FIRST FLOOR LIGHTING PLAN

SCALE: 1/8" = 1 FOOT

NORTH

RELAY PANEL SCHEDULE "RP1"

RELAY NO.	LOAD DESCRIPTION	PANEL	LOAD (VA)	VOLTAGE	EMERGENCY	CONTROL CAPABILITIES				
						CONTROL STATION	DIM	OCC. SENSOR	TIME CLOCK	PHOTO CELL
1	EXTERIOR DOWNLIGHTS AND FORCE PROT. BOLLARDS	REMARK 1	1400	120	YES	NO	NO	NO	YES	NO
2	EXTERIOR DOWNLIGHTS	REMARK 2	575	120	NO	NO	NO	NO	YES	NO
3	INTERIOR DOWNLIGHTS	REMARK 2	200	120	NO	YES	NO	NO	YES	NO
4	INTERIOR COVES	REMARK 1	1100	120	YES	YES	NO	NO	YES	NO

SEQUENCE OF OPERATIONS:

RELAY NO. 1 WILL TURN ON (1) HOUR BEFORE SUNSET AND TURN OFF (1) HOUR AFTER SUNRISE.

RELAY NO. 2 WILL TURN ON (1) HOUR BEFORE SUNSET AND TURN OFF (1) HOUR AFTER SUNRISE.

RELAY NO. 3 WILL TURN ON (1) HOUR PRIOR AND TURN OFF (1) HOUR AFTER OWNER-SPECIFIED HOURS OF OPERATION, UNLESS MANUALLY OVERRIDDEN AT CONTROL STATION.

RELAY NO. 4 WILL TURN ON (1) HOUR PRIOR AND TURN OFF (1) HOUR AFTER OWNER-SPECIFIED HOURS OF OPERATION, UNLESS MANUALLY OVERRIDDEN AT CONTROL STATION.

REMARKS:

1. PROVIDE NEW 20 AMP, 1 POLE CIRCUIT BREAKERS COMPATIBLE WITH EXISTING PANEL '1CL' (WESTINGHOUSE) AND INSTALL IN AVAILABLE SPACE. CONNECT EACH INDICATED RELAY TO NEW DEDICATED CIRCUIT BREAKER. SEE SHEET E3.2 FOR LOCATION OF PANEL '1CL'.
2. CONNECT BOTH RELAYS TO A SPARE 20A/1P CIRCUIT IN EXISTING PANEL '1CCC'.

ELECTRICAL KEYNOTES: (⟨⟩)

1. PROVIDE LC&D DIGITAL MICROPANEL WITH 2N/2E RELAYS IN AN AIR PLENUM RATED ENCLOSURE. PROVIDE SEPARATE ENCLOSURE OR VOLTAGE BARRIER IN PANEL FOR EMERGENCY RELAYS. PROVIDE CAT 5 CABLE BETWEEN ENCLOSURES. PROVIDE TIMECLOCK WITH PROGRAMMING AS INDICATED IN RELAY PANEL SCHEDULE. REFER TO PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS. WALL–MOUNT MICROPANEL ABOVE ACCESSIBLE CEILING. APPROVED EQUALS ARE WATTSTOPPER, COOPER, CRESTRON, HUBBELL, OR LUTRON.
2. LUMINAIRE TO BE MOUNTED IN ARCHITECTURAL COVE. REFER TO ARCHITECTURAL DETAILS FOR MOUNTING CONDITIONS. CONTRACTOR TO VERIFY QUANTITY/LENGTHS PRIOR TO ORDERING. FILL ENTIRE COVE LENGTH WITH NO MORE THAN 6" UNLIT AT EITHER END. PROVIDE SHIM TO ALIGN TOP OF LUMINAIRE WITH TOP LIP OF COVE AS NECESSARY TO ELIMINATE ANY SHADOWING ON CEILING WHILE ENSURING LUMINAIRES ARE NOT VISIBLE FROM BELOW.
3. PROVIDE LC&D 2–BUTTON CHELSEA DIGITAL CONTROL STATION FOR ON/OFF OVERRIDE OF VESTIBULE LIGHTING CONTROL. CONNECT TO LC&D DIGITAL MICROPANEL. COORDINATE EXACT LOCATION OF CONTROL STATION WITH PROJECT ARCHITECT.
4. NUMBER INDICATES THE MINIMUM WIRE SIZE FOR ENTIRE, INCLUDING WIRING FROM RELAY TO CIRCUIT BREAKER.
5. CONNECT TO NEARBY EXISTING 120V EMERGENCY CIRCUIT.
6. LUMINAIRE TO BE LOCATED 0'–6" FROM FACE OF COLUMN TO CENTER OF LUMINAIRE. CENTER LUMINAIRE WITH COLUMN.
7. RELOCATED, EXISTING DOWNLIGHT INSTALLED AT CLERESTORY CEILING. CONNECT TO EXISTING SWITCHED LIGHTING CIRCUIT. REFER TO SHEET E1.1, KEYNOTE 12, FOR DEMOLITION WORK.

LUMINAIRE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	SERIES	CATALOG NO.	LAMP		FINISH	MOUNTING	INPUT WATTS	VOLTS	ACCEPTABLE MANUFACTURERS	REMARKS
					QTY	TYPE						
D	2" APERTURE LED DOWNLIGHT. RATED FOR USE IN DAMP LOCATIONS.	PRESCOLITE	D2LED	D2LED-2D9LED-40K-8-WFL45-MFC D2FRM MOUNTING FRAME	-	LED 4000K CCT 1000 LM	CLEAR ALZAK MATTE DIFFUSE	RECESSED	20 W	120 V	LUCIFER USAI	-
DA	4" APERTURE LED DOWNLIGHT. RATED FOR USE IN WET LOCATIONS.	GOTHAM	EVO 4" OPEN	EVO-30/14-4AR-WD-LD-120 RFD - CEILING THICKNESS	-	LED 3000K CCT 1400 LM	CLEAR ALZAK MATTE DIFFUSE	RECESSED	26 W	120 V	LUCIFER USAI	1
DB	8" APERTURE OPEN LED DOWNLIGHT. RATED FOR USE IN WET LOCATIONS.	GOTHAM	EVO 8" OPEN	EVO-30/29-8AR-WD-LD-120	-	LED 3000K CCT 2900 LM	CLEAR ALZAK MATTE DIFFUSE	RECESSED	49 W	120 V	PRESCOLITE PATHWAY OMEGA	-
DC	2" APERTURE LED DOWNLIGHT. RATED FOR USE IN DAMP LOCATIONS.	PRESCOLITE	D2LED	D2LED-2D9LED-30K-8-MD25-MFC MODIFIED - CEILING THICKNESS	-	LED 3000K 1000 LM	CLEAR ALZAK MATTE DIFFUSE	RECESSED	20 W	120 V	LUCIFER	1, 2
L1	1' LENGTH LINEAR LED LUMINAIRE WITH 120° LIGHT DISTRIBUTION, ±90 DEGREE ADJUSTABILITY, END-TO-END CONNECTORS, AND INTEGRAL DRIVER	LUMENPULSE	LUMENCOVE RO	LCS RO-120-12-40K-CL-FT-WH-NO	-	LED 4000K CCT 400 LM/FT	WHITE	COVE	6 W	120 V	COLOR KINETICS TRAXON	-
L3	3' LENGTH LINEAR LED LUMINAIRE WITH 120° LIGHT DISTRIBUTION, ±90 DEGREE ADJUSTABILITY, END-TO-END CONNECTORS, AND INTEGRAL DRIVER.	LUMENPULSE	LUMENCOVE RO	LCS RO-120-36-40K-CL-FT-WH-NO	-	LED 4000K CCT 400 LM/FT	WHITE	COVE	18 W	120 V	COLOR KINETICS TRAXON	-
L4	4' LENGTH LINEAR LED LUMINAIRE WITH 120° LIGHT DISTRIBUTION, ±90 DEGREE ADJUSTABILITY, END-TO-END CONNECTORS, AND INTEGRAL DRIVER.	LUMENPULSE	LUMENCOVE RO	LCS RO-120-48-40K-CL-FT-WH-NO	-	LED 4000K CCT 400 LM/FT	WHITE	COVE	24 W	120 V	COLOR KINETICS TRAXON	-
LA1	1' LENGTH LINEAR LED LUMINAIRE WITH 120° LIGHT DISTRIBUTION, ±90 DEGREE ADJUSTABILITY, END-TO-END CONNECTORS, AND INTEGRAL DRIVER.	LUMENPULSE	LUMENCOVE HO	LCS HO-120-12-40K-CL-FT-WH-NO	-	LED 4000K CCT 750 LM/FT	WHITE	COVE	12 W	120 V	COLOR KINETICS TRAXON	-
LA4	4' LENGTH LINEAR LED LUMINAIRE WITH 120° LIGHT DISTRIBUTION, ±90 DEGREE ADJUSTABILITY, END-TO-END CONNECTORS, AND INTEGRAL DRIVER.	LUMENPULSE	LUMENCOVE HO	LCS HO-120-48-40K-CL-FT-WH-NO	-	LED 4000K CCT 750 LM/FT	WHITE	COVE	48 W	120 V	COLOR KINETICS TRAXON	-
LA8	8' LENGTH LINEAR LED LUMINAIRE WITH 120° LIGHT DISTRIBUTION, ±90 DEGREE ADJUSTABILITY, END-TO-END CONNECTORS, AND INTEGRAL DRIVER.	LUMENPULSE	LUMENCOVE HO	LCS HO-120-96-40K-CL-FT-WH-NO	-	LED 4000K CCT 750 LM/FT	WHITE	COVE	96 W	120 V	COLOR KINETICS TRAXON	-
X	LED EXIT SIGN - SINGLE FACE WITH RED LETTERS	LITHONIA	QUANTUM	LQC-1-R	-	LED	MATTE BLACK / ALUMINUM FACE	SURFACE	1 W	120 V	SURE-LITES DUAL-LITE HUBBELL	3

LUMINAIRE SCHEDULE REQUIREMENTS:

A. SUBMIT SHOP DRAWINGS FOR EACH LUMINAIRE, BALLAST, AND LAMP TYPE USED ON PROJECT.

B. CONTRACTOR SHALL FIELD VERIFY VOLTAGE OF ALL LUMINAIRES PRIOR TO ORDERING.

C. LED LUMINAIRE TO HAVE FIELD-REPLACABLE MODULE AND COMPONENTS (POWER SUPPLY, DRIVER, ETC), SERVICEABLE FROM BELOW CEILING.

D. DOWNLIGHTS SHALL HAVE ALZAK FINISH SELF-TRIMMING REFLECTORS, UNLESS SPECIFIED OTHERWISE. DOWNLIGHTS SHALL HAVE HARDWARE MOUNTING FOR REFLECTOR; SPRING CLIPS ARE NOT ACCEPTABLE.

E. PROVIDE FACTORY INSTALLED INTEGRAL DISCONNECTING MEANS FOR FLUORESCENT LIGHT LUMINAIRES PER 2011 NEC ARTICLE 410.130.(G). NOTE THAT EXCEPTION NO. 4 AND EXCEPTION NO. 5 WILL NOT BE ACCEPTED.

LUMINAIRE SCHEDULE REMARKS:

1. LUMINAIRE SHALL BE CAPABLE OF BEING MOUNTED IN 2-1/8" THICK CEILING.
2. LUMINAIRE UTILIZES COMPACT REMODEL-STYLE HOUSING.
3. REFER TO DRAWINGS FOR MOUNTING REQUIREMENTS SUCH AS WALL MOUNT, END MOUNT, CEILING MOUNT AND PROVIDE LUMINAIRES ACCORDINGLY. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS.

Revisions: Date

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InfraStructure, LLC
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Drawing Title: PARTIAL FIRST FLOOR LIGHTING PLAN

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: RJH | Drawn: SPG

Project Number: 636-12-823

Building Number: ONE

Drawing Number: E2.1

Dwg. 31 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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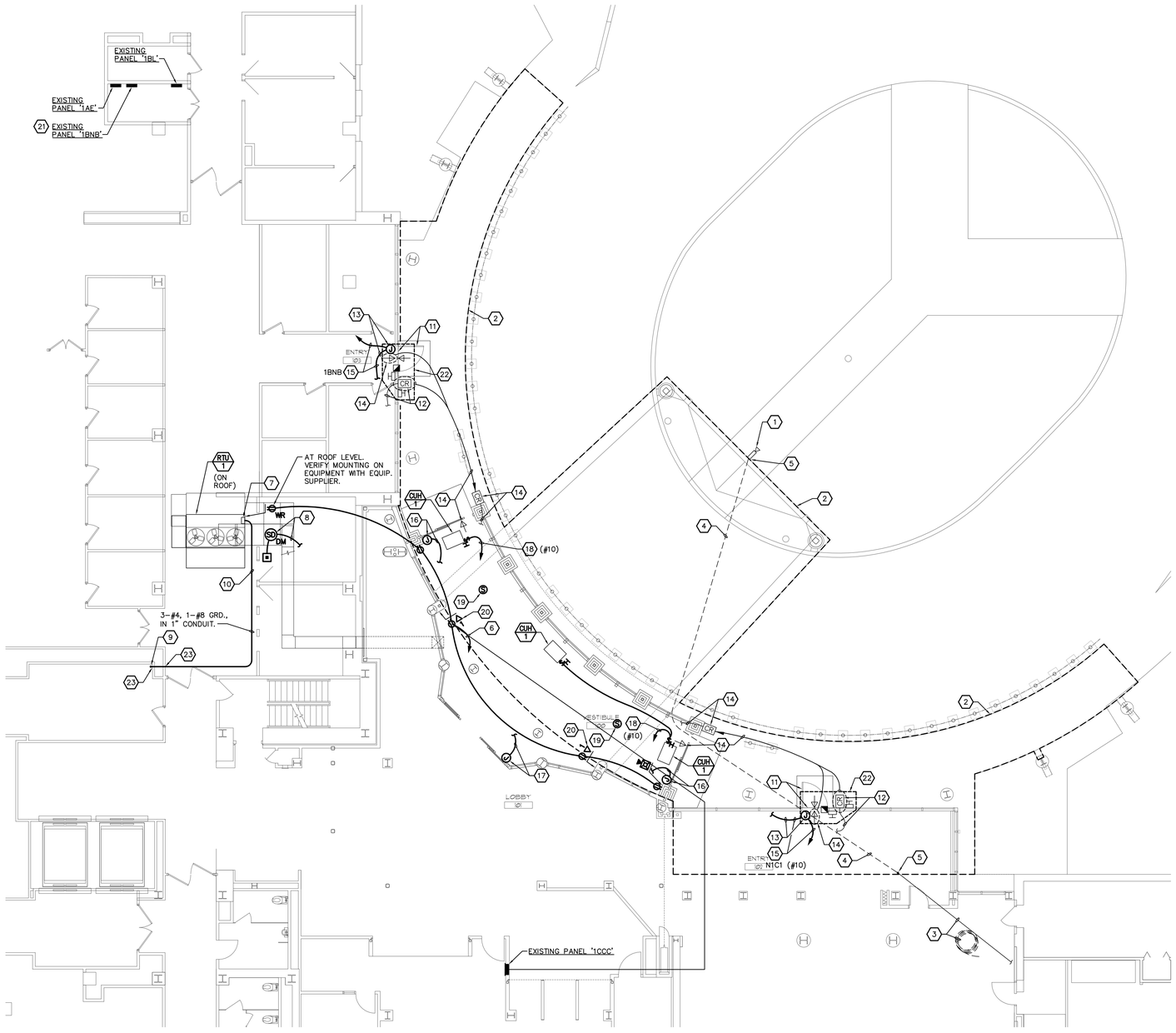
SEE 'GENERAL ELECTRICAL NOTES', SHEET E0.1, FOR ADDITIONAL ELECTRICAL REQUIREMENTS



1 / E3.1 PARTIAL FIRST FLOOR POWER & SPECIAL SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

ELECTRICAL KEYNOTES: (⬡)

1. REINSTALL EXISTING SALVAGED SECURITY CAMERA AND MOUNTING BRACKET AFTER COMPLETION OF CANOPY FASCIA, SOFFIT, TRIM, ETC. WORK. INSTALL DEVICES SECURELY TO CANOPY FASCIA AS PREVIOUS INSTALLATION.
2. PROVIDE NEW LIGHTNING PROTECTION SYSTEM TO OUTLINED PORTION OF STRUCTURE AFTER NEW ROOF WORK IS COMPLETE ON ALL ROOF SECTIONS INDICATED. PROVIDE CONNECTION FOR NEW SYSTEM TO EXISTING DOWNLEAD AND ADJACENT ROOF SYSTEMS CONNECTION(S) AS APPLICABLE. SEE KEYNOTE 6, SHEET E1.1.
3. EXISTING SALVAGED SECURITY SYSTEM CABLING IN LIQUID TIGHT, FLEXIBLE, METAL CONDUIT (KEYNOTE 7, SHEET E1.1). EXTEND RACEWAY CONTAINING CABLING TO CAMERA LOCATION, KEYNOTE 1, AND CONNECT. SECURE RACEWAY TO BUILDING STRUCTURE AT INTERVALS NOT TO EXCEED THOSE PER THE N.E.C.
4. COORDINATE INSTALLATION OF THIS PORTION OF EXISTING SECURITY SYSTEM RACEWAY (DASHED) CONCEALED WITHIN STRUCTURAL FRAMEWORK OF WALKWAY AND DRIVEWAY CANOPIES WHEN THESE STRUCTURES ARE EXPOSED FOR REMODEL WORK. FIELD VERIFY EXACT ROUTING OF EXISTING RACEWAY AS HORIZONTAL AND LEVEL AS POSSIBLE TO MAXIMIZE AVAILABLE EXISTING LENGTH TO ALLOW FOR CAMERA CONNECTION. SECURE RACEWAY TO BUILDING STRUCTURE AT INTERVALS NO TO EXCEED THOSE PER THE N.E.C.
5. SEAL RACEWAY PENETRATION THROUGH VERTICAL FASCIA AND ROOFING SYSTEMS TO MAKE WEATHER TIGHT.
6. CONNECT TO SPARE 20 AMP, SINGLE POLE CIRCUIT BREAKER IN EXISTING PANEL '1CCC'.
7. CONNECT UNIT DISCONNECT FURNISHED INTEGRAL TO RTU-1.
8. IN SUPPLY AIR DUCTWORK ABOVE FIRST FLOOR CEILING. PROVIDE CONNECTION TO ALARM CIRCUIT OF EXISTING FIRE ALARM SYSTEM AT FIRST FLOOR LEVEL. FIELD VERIFY EXACT FLUSH MOUNTING LOCATION OF REMOTE ALARM INDICATOR IN FIRST FLOOR CEILING. PROVIDE CONNECTION TO SHUT DOWN RTU-1 UPON ACTIVATION OF DETECTOR. DUCT DETECTOR SHALL BE MANUFACTURED BY SIMPLEX TO BE COMPATIBLE WITH EXISTING SYSTEM.
9. DOWN FROM SECOND FLOOR INTO FIRST FLOOR CEILING SPACE. SEE 'PARTIAL SECOND FLOOR ELECTRICAL PLAN', SHEET E3.3, FOR CONTINUATION FROM SECOND FLOOR CEILING SPACE.
10. ROUTE NEW FEEDER ABOVE CEILING WITH MECHANICAL PIPING AS MUCH AS PRACTICAL PRIOR TO CONNECTION TO RTU-1.
11. THIS EXISTING DOOR BECOMES A TEMPORARY 'MAIN' ENTRANCE DURING REMODEL/CONSTRUCTION OF NEW MAIN ENTRANCE.
12. INSTALL EXISTING SALVAGED, SECURITY SYSTEM KEY PACS CARD READER TO OPERATE AT EXISTING DOOR LOCATION SIMILAR TO OPERATION AT PREVIOUS LOCATION. PROVIDE NEW CIRCUITING TO MATCH EXISTING, AND EXTEND AND CONNECT TO EXISTING SECURITY SYSTEM WIRING SALVAGED FROM PREVIOUS INSTALLATION. SEE ELECTRICAL DEMOLITION KEYNOTE 9 AND 12, SHEET E1.1, FOR ADDITIONAL INFORMATION.
13. PROVIDE NEW CIRCUITING TO EXTEND EXISTING 120 VOLT DOOR OPERATOR CIRCUIT (1CCB-10 OR 12, EMERGENCY POWER) RETAINED IN SPACE AND CONNECT DOOR OPERATOR AT TEMPORARY 'MAIN' ENTRANCE. SEE ELECTRICAL DEMOLITION KEYNOTE 3 AND 12, SHEET E1.1, FOR ADDITIONAL INFORMATION.
14. RELOCATE EXISTING SALVAGED, SECURITY SYSTEM KEY PACS CARD READER AND MOTION DETECTOR INDICATED FROM TEMPORARY 'MAIN' ENTRANCE DOOR LOCATION TO NEW DOOR TO OPERATE AT PERMANENT DOOR LOCATION SIMILAR TO OPERATION AT ORIGINAL (PRE-PROJECT DEMOLITION) LOCATION. PROVIDE NEW CIRCUITING TO MATCH EXISTING, AND EXTEND AND CONNECT TO EXISTING SECURITY SYSTEM WIRING SALVAGED FROM ORIGINAL INSTALLATION. SEE KEYNOTE 11, THIS SHEET, FOR TEMPORARY 'MAIN' ENTRANCE LOCATION.
15. WHEN NEW ENTRY DOOR INSTALLATION IS COMPLETE AT PERMANENT LOCATION THE EMERGENCY CIRCUIT SHALL BE REMOVED AND SALVAGED FOR CONNECTION TO NEW DOOR OPERATOR (SEE KEYNOTE 16 THIS SHEET). EXTEND NEW NORMAL POWER CIRCUIT, USING CONDUCTOR SIZE INDICATED (AS APPLICABLE), TO EXISTING PANEL INDICATED AND CONNECT 20 AMP, SINGLE POLE CIRCUIT BREAKER INSTALLED IN PANEL BY ANOTHER KEYNOTE ('1BNB', KEYNOTE 21, THIS SHEET OR 'N1C1', KEYNOTE 11, SHEET E3.2). SEE 'PARTIAL FIRST FLOOR ELECTRICAL PLAN', SHEET E3.2, FOR EXISTING PANEL 'N1C1' LOCATION. CONNECT EXISTING DOOR OPERATOR TO NEW NORMAL CIRCUIT.
16. PROVIDE NEW CIRCUITING TO EXTEND EXISTING 120 VOLT DOOR OPERATOR CIRCUIT (1CCB-10 OR 12, EMERGENCY POWER) RETAINED IN SPACE AND CONNECT PERMANENT LOCATION DOOR OPERATOR.
17. THE RETAINED, EXISTING 208 VOLT, SINGLE PHASE REVOLVING DOOR OPERATOR CIRCUIT (1CCB-14) SHALL BE MODIFIED AND REUSED TO CONNECT NEW DOOR OPERATOR. REMOVE ONE OF THE PHASE CONDUCTORS FROM THE EXISTING CIRCUIT AND REPLACE WITH A GROUNDED (NEUTRAL) CONDUCTOR AS INDICATED BY KEYNOTE 10, SHEET E3.2. PROVIDE NEW CIRCUITING TO MATCH EXISTING AND EXTEND TO CONNECT NEW DOOR OPERATOR.
18. CONNECT TO SPARE 20 AMP, SINGLE POLE CIRCUIT BREAKER IN EXISTING PANEL 'N1C1' USING CONDUCTOR SIZE INDICATED. SEE 'PARTIAL FIRST FLOOR ELECTRICAL PLAN', SHEET E3.2, FOR EXISTING PANEL LOCATION.
19. CONNECT PAGING SPEAKER TO EXISTING SPEAKER CIRCUIT IN LOBBY. FLUSH MOUNT SPEAKER WITH WHITE CIRCULAR GRILL. SPEAKER SPECIFICATIONS SHALL MATCH EXISTING PAGING SPEAKERS.
20. PROVIDE DATA CABLE PER SPECIFICATIONS TO EXISTING DATA RACK IN TELECOM ROOM 1206A. SEE 'PARTIAL FIRST FLOOR ELECTRICAL PLAN', SHEET E3.2, FOR TELECOM ROOM 1206A LOCATION.
21. PROVIDE 1-20 AMP, SINGLE POLE CIRCUIT BREAKER COMPATIBLE WITH EXISTING PANEL (WESTINGHOUSE) AND INSTALL IN AVAILABLE SPACE IN EXISTING PANEL '1BNB'. NEW CIRCUIT BREAKER AIC RATING SHALL MATCH EXISTING.
22. PROVIDE CONNECTIONS FOR RELOCATED DOOR HARDWARE TO ALL EXISTING EXTERNAL ELECTRICAL CONNECTIONS INCLUDING THOSE INDICATED BY KEYNOTE 12 AND 13 (THIS SHEET). PROVIDE NEW CIRCUITING TO MATCH EXISTING, AND EXTEND AND CONNECT EXISTING CIRCUITS.
23. PROVIDE FIRE RESISTANT SEALING MATERIAL AT CONDUIT PENETRATION THROUGH EXISTING WALL.

Revisions:	Date

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InfraStructure, LLC
ENGINEERING CONSULTING GROUP

Drawing Title: PARTIAL FIRST FLOOR POWER AND SPECIAL SYSTEMS PLAN

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

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Project Number: 636-12-823

Building Number: ONE

Drawing Number: E3.1

Dwg. 32 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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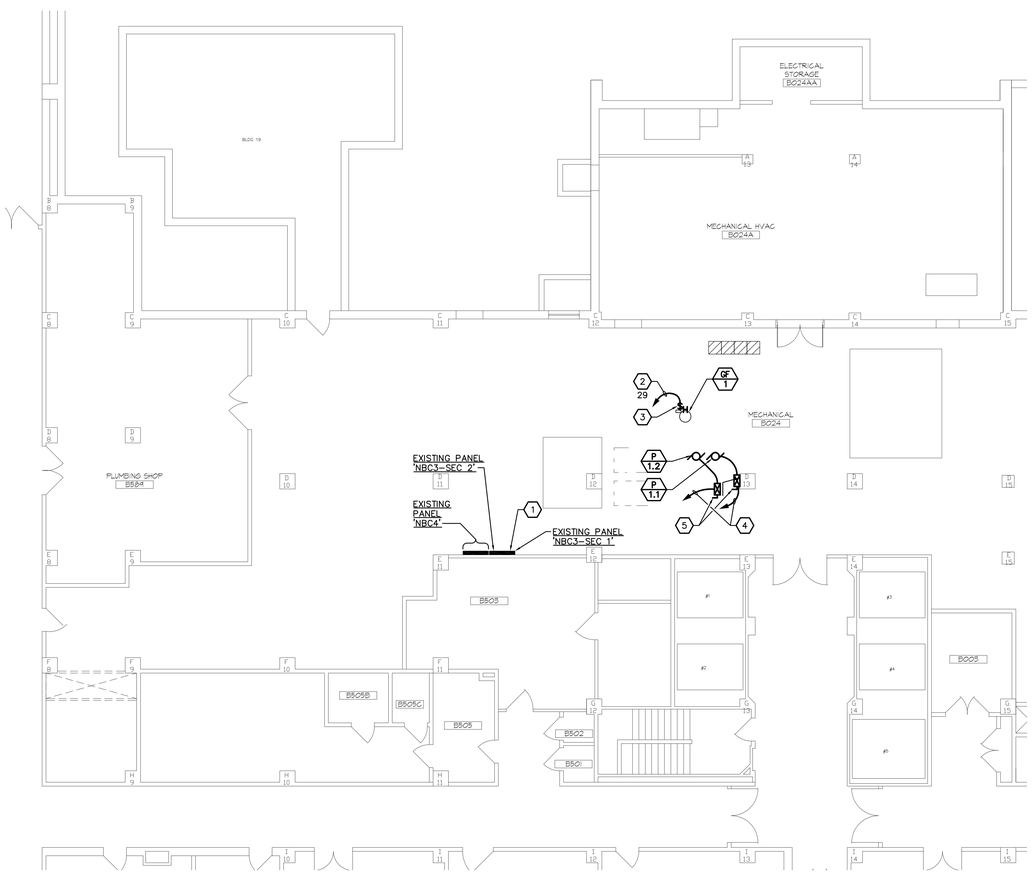
ELECTRICAL KEYNOTES: (⟨⟩)

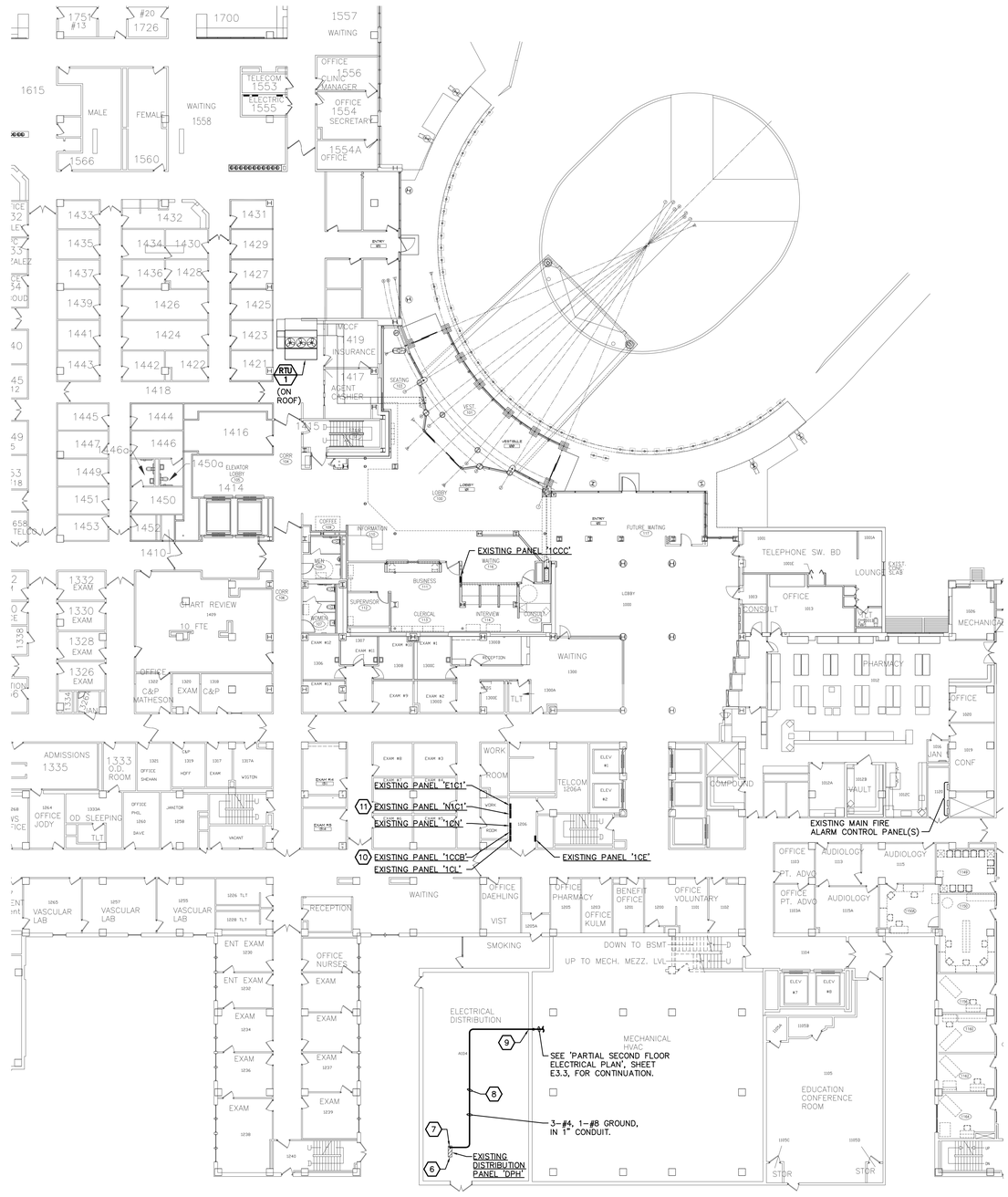
1. REMOVE TWO EXISTING 35 AMP, 3 POLE SPARE CIRCUIT BREAKERS IN EXISTING PANEL 'NBC3–SEC 1' (CIRCUIT POSITIONS 31 AND 37). RETURN BREAKERS TO OWNER. PROVIDE AND INSTALL IN MADE SPACE 2–20 AMP, 3 POLE CIRCUIT BREAKERS COMPATIBLE WITH EXISTING PANEL (GE). NEW CIRCUIT BREAKER AIC RATING SHALL MATCH EXISTING.
2. EXTEND NEW CIRCUIT TO EXISTING PANEL 'NBC3–SEC 2' AND CONNECT TO EXISTING SPARE 20 AMP, SINGLE POLE CIRCUIT BREAKER AT CIRCUIT POSITION INDICATED.
3. MOUNT SWITCH TO STRUCTURAL FRAME OF GLYCOL FEED SYSTEM EQUIPMENT. CONNECT EQUIPMENT CONTROL PANEL. PROVIDE CONNECTION FROM CONTROL PANEL TO PUMP MOTOR PER MANUFACTURERS RECOMMENDATIONS.
4. EXTEND NEW CIRCUIT TO EXISTING PANEL 'NBC3–SEC 1' AND CONNECT TO ONE OF TWO NEW 20 AMP, 3 POLE CIRCUIT BREAKERS INSTALLED AS PART OF KEYNOTE 1.
5. MOUNT COMBINATION MOTOR STARTER AND SAFETY SWITCH TO COLUMN, ONE ABOVE ANOTHER, WITH TOP OF UPPER STARTER/SWITCH NO HIGHER THAN 6'–0" ABOVE FINISHED FLOOR.
6. PROVIDE NEW 60 AMP, 3 POLE CIRCUIT BREAKER COMPATIBLE WITH EXISTING DISTRIBUTION PANEL (SIEMENS) AND INSTALL IN AVAILABLE SPACE. NEW CIRCUIT BREAKER AIC RATING SHALL MATCH EXISTING.
7. EXTEND NEW FEEDER INDICATED FROM CIRCUIT BREAKER (INSTALLED BY KEYNOTE 6) THROUGH TOP OF EXISTING 'DPH' TO STRUCTURAL CEILING OF ELECTRICAL DISTRIBUTION ROOM.
8. SUGGESTED CONDUIT ROUTING IS SHOWN. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING TO MISS EXISTING FIXED ARCHITECTURAL AND STRUCTURAL BUILDING ELEMENTS, AND MECHANICAL, PLUMBING AND/OR ELECTRICAL EQUIPMENT, DUCTWORK, PIPING AND CONDUIT. PROVIDE NECESSARY CONDUIT FITTINGS, PULL AND JUNCTION BOXES, ETC. FOR ROUTING CHOSEN.
9. PROVIDE FIRE RESISTANT SEALING MATERIAL AT CONDUIT PENETRATION THROUGH EXISTING WALL.
10. REMOVE CONNECTION TO 20 AMP, 2 POLE CIRCUIT BREAKER IN EXISTING PANEL SERVING REMOVED REVOLVING DOOR. REMOVE ONE OF THE PHASE CONDUCTORS COMPLETELY FROM PANEL TO PREVIOUS REVOLVING DOOR CONNECTION POINT. INSTALL ONE GROUNDED (NEUTRAL) CONDUCTOR TO REPLACE PHASE CONDUCTOR OF SIZE TO MATCH PHASE CONDUCTOR. PROVIDE NEW 20 AMP, SINGLE POLE CIRCUIT BREAKER COMPATIBLE WITH EXISTING PANEL (WESTINGHOUSE) AND INSTALL IN AVAILABLE SPACE. CONNECT RECONFIGURED CIRCUIT FOR NEW DOOR OPERATOR TO NEW CIRCUIT BREAKER.
11. PROVIDE 1–20 AMP, SINGLE POLE CIRCUIT BREAKER COMPATIBLE WITH EXISTING PANEL (GE) AND INSTALL IN AVAILABLE SPACE IN EXISTING PANEL 'N1C1'. NEW CIRCUIT BREAKER AIC RATING SHALL MATCH EXISTING.

SEE 'GENERAL ELECTRICAL NOTES', SHEET E0.1, FOR ADDITIONAL ELECTRICAL REQUIREMENTS



2 E3.2 PARTIAL BASEMENT ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH



1 E3.2 PARTIAL FIRST FLOOR ELECTRICAL PLAN
SCALE: 1/16" = 1'-0"

PLAN NORTH

Revisions: Date

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InfraStructure, LLC
ENGINEERING CONSULTING GROUP

Drawing Title: PARTIAL FIRST FLOOR PLAN AND PARTIAL BASEMENT FLOOR ELECTRICAL PLAN

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: RJH | Drawn: DMM

Project Number: 636-12-823

Building Number: ONE

Drawing Number: E3.2

Dwg. 33 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08–6231

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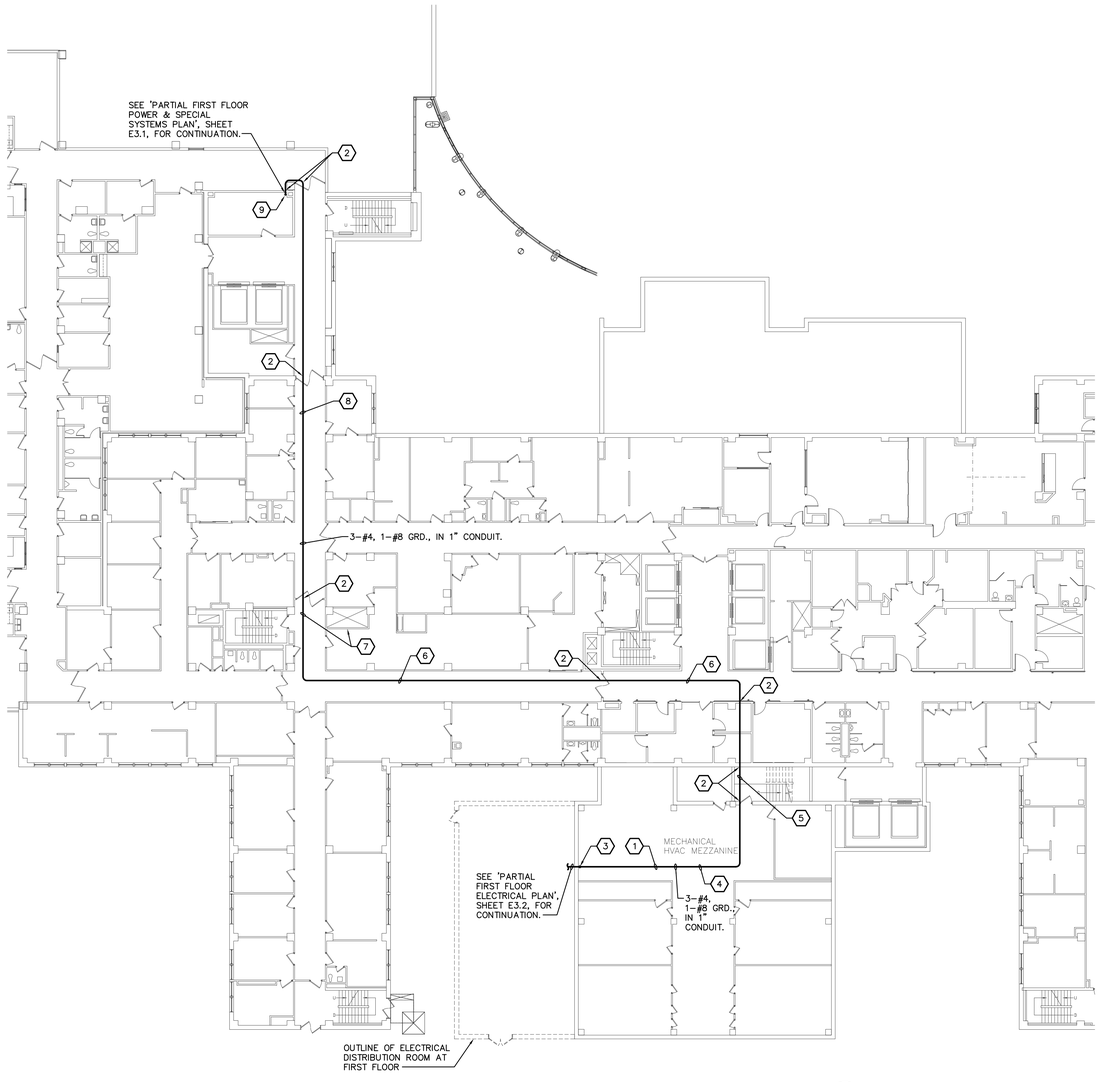
ELECTRICAL KEYNOTES: (⬡)

1. SUGGESTED CONDUIT ROUTING IS SHOWN. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING TO MISS EXISTING FIXED ARCHITECTURAL AND STRUCTURAL BUILDING ELEMENTS, AND MECHANICAL, PLUMBING AND/OR ELECTRICAL EQUIPMENT, DUCTWORK, PIPING AND CONDUIT. PROVIDE NECESSARY CONDUIT FITTINGS, PULL AND JUNCTION BOXES, ETC., FOR ROUTING CHOSEN.
2. PROVIDE FIRE RESISTANT SEALING MATERIAL AT CONDUIT PENETRATION THROUGH EXISTING WALL.
3. RISE UP ON WALL TO STRUCTURAL CEILING OF MECHANICAL MEZZANINE.
4. ROUTE NEW FEEDER TIGHT TO STRUCTURAL CEILING OF MECHANICAL MEZZANINE. FASTEN SECURELY TO STRUCTURE AT INTERVALS NOT TO EXCEED THE N.E.C.
5. ROUTE NEW FEEDER TIGHT TO STRUCTURAL CEILING OF STAIRS. FASTEN SECURELY TO STRUCTURE AT INTERVALS NOT TO EXCEED THE N.E.C.
6. ROUTE NEW FEEDER ABOVE SECOND FLOOR ACOUSTICAL TILE CEILING. FASTEN SECURELY FROM STRUCTURE AT INTERVALS NOT TO EXCEED THE N.E.C. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING ABOVE CEILING.
7. AT THIS APPROXIMATE LOCATION ROUTE NEW FEEDER ABOVE CEILING WITH MECHANICAL PIPING EXITING FROM EXISTING CHASE.
8. ROUTE NEW FEEDER ABOVE SECOND FLOOR ACOUSTICAL TILE CEILING WITH MECHANICAL PIPING. FASTEN SECURELY FROM STRUCTURE AT INTERVALS NOT TO EXCEED THE N.E.C. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING ABOVE CEILING.
9. DROP NEW FEEDER DOWN WITH MECHANICAL PIPING FROM ABOVE SECOND FLOOR CEILING TO ABOVE THE CEILING SPACE OF THE FIRST FLOOR.

SEE 'GENERAL ELECTRICAL NOTES', SHEET E0.1, FOR ADDITIONAL ELECTRICAL REQUIREMENTS



1 E3.3 PARTIAL SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/16" = 1'-0"

PLAN NORTH

Revisions:	Date

ARCHITECT/ENGINEERS:

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InfraStructure, LLC
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Drawing Title: PARTIAL SECOND FLOOR ELECTRICAL FLOOR PLAN

CONTRACT DOCUMENTS (CD-3) FINAL SUBMITTAL (100%)

Project Title: CORRECT MAIN ENTRANCE HVAC

Location: VAMC Omaha Nebraska

Date: MAY 10, 2013 | Checked: RJH | Drawn: DMM

Project Number: 636-12-823

Building Number: ONE

Drawing Number: E3.3

Dwg. 34 of 34

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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