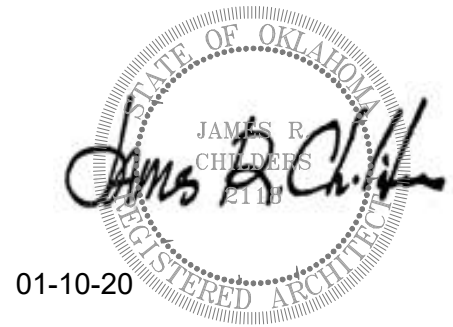


BID PACKAGE 02 – ADDENDUM 01**Date:** January 10, 2020**Re:** Wilma P Mankiller Health Center Expansion**From:** James R Childers Architect, Inc.
45 South 4th Street
Fort Smith, Arkansas 72901

This addendum forms part of the Contract Documents, and modifies the documents as noted below. Acknowledge receipt of this addendum in the space provided on the bid form. Failure to do so may subject the bidder to disqualification.

- Item 01**
- A1.21 – Added door 02-18-00
 - A1.30 – Door 03-19-01 Revised door swing.
 - A2.02 – Project phase and date revised.
 - A2.03 – Project phase and date revised.
 - A5.01 – Project phase and date revised.
 - A5.02 – Project phase and date revised.
 - A5.03 – Project phase and date revised.
 - A6.02 – Project phase and date revised.
 - A6.10 – Added door 02-18-00 / Door hardware for door 03-19-01 had been revised. Project phase and date revised.
 - A6.20 – Project phase and date revised.
 - A7.13 – Flooring changed to exposed sealed concrete in corridor.
 - A7.14 – Flooring changed to exposed sealed concrete in corridor.
 - A8.31 – Project phase and date revised.
 - A9.21 – Lighting fixtures taken out / Ceiling changed to open to structure.
 - A9.22 – Lighting fixtures taken out / Ceiling changed to open to structure.
- Item 02** Please see attached narrative from HP Engineering.



5214 W. Village Parkway, Suite 120, Rogers, AR 72758 | 479-899-6370

CHANGE NARRATIVE LETTER

TO: MATHEW THOMAS- CHILDERS ARCHITECTS
FROM: STEPHEN EDMONDSON, TREY SMITH, BETSY WELLS– HP ENGINEERING, INC.
DATE: 1/10/2020
PROJECT: WPMHC EXPANSION BID PACKAGE 02 ADDENDUM 01

MECHANICAL DESIGN ITEMS

1. M1.02
 - a. Mini Split Air Conditioning Schedule – Revised MCA and MOCP.
 - b. Dental Equipment Louver Schedule – Added schedule to sheet.
 - c. Dental Equipment Exhaust Fan schedule – Add schedule to sheet.
2. M2.03
 - a. Added detail 6 to sheet.
3. M4.02
 - a. Removed ductwork and air devices from corridor.
4. M.503
 - a. Removed ductwork and air devices from corridor.
 - b. Added equipment to dental mechanical room.
5. M5.04
 - a. Removed ductwork and air devices from corridor.
6. M5.05
 - a. Revised hood location.
 - b. Revise air device locations.

7. M6.04
 - a. Removed air devices from corridor.
8. M6.05
 - a. Removed air devices from corridor.
9. M6.06
 - a. Remove air devices from corridor.
10. M8.01
 - a. Revised hydronic pipe routing to miss electrical equipment.
11. M8.02
 - a. Revised hydronic pipe routing to miss electrical equipment.
12. M8.10
 - a. Added E-stop location for boilers.
13. M8.11
 - a. Added detail callouts for boilers.

ELECTRICAL DESIGN ITEMS

1. E1.01
 - a. Notes updated
2. E1.03
 - a. H1 panel relocated.
3. E1.04
 - a. Detail 1 – Revised water fountain receptacle to not be GFI.
 - b. Detail 1 – Added (1) circuit in Closed Opp 02-17-35 for receptacles.
 - c. Detail 1 – Revised circuit number for Circulation 02-17-27 receptacles.
 - d. Detail 1 – Revised note for miele instrument washer receptacles in Soiled 02-17-43 to include NEMA type.

- e. Detail 1 – Added NEMA rating for coffee receptacle in Breakroom/Conf 02-17-04.
 - f. Detail 2 – Revised orientation of detail.
 - g. Detail 2 – Added (1) junction box for x-ray in Closed Opp 02-17-48.
 - h. Detail 2 – Added (1) junction for remoted station in Closed Opp 02-17-48.
 - i. Detail 2 – Added (1) junction for exposure button in Circulation 02-17-07.
 - j. Keynotes – Removed keynote 26.39.
4. E1.05
- a. Detail 1 – Added keynote 26.46 to elevator service GFCI receptacle.
 - b. Keynotes – Added to sheet.
5. E1.06
- a. Circuits have been updated.
6. E1.07
- a. Circuits have been updated.
7. E1.08
- a. Circuits have been updated.
8. E1.09
- a. Circuits have been updated.
9. E1.10
- a. Circuits have been updated.
10. E1.11
- a. Circuits have been updated.
11. E1.13
- a. Key notes have been revised
 - b. Circuits have been updated.
 - c. Detail 1 – Added EF-9 location and equipment tag.
12. E1.14

- a. Detail 1 – Revised VAV-1 and VAV-2 circuitry to be isolated from each other.
- b. Detail 1 – Added note for VAV-1 circuitry.
- c. Detail 1 – Added EF-9 location and equipment tag.

13. E1.15

- a. Detail 1 – Added (2) emergency shunt switches for boiler shunt control in MEP 01-05-01.
- b. Detail 1 – Added equipment tag for VAV-1.23.
- c. Detail 1 – Added junction and 120V circuit for BAS in MEP 01-05-01.
- d. Detail 1 – Added (2) 30A disconnects for CPF-1 and CPF-2 generator annunciator panels in MEP 01-05-01.
- e. Detail 1 – Added (2) junction boxes for CPF-1 and CPF-2 generator estops in MEP 01-05-01.
- f. Detail 1 – Revised location of KH-1 junction box in Kitchen 01-14-04.
- g. Detail 1 – Revised location of VAV-1.09 switch.
- h. Detail 1 – Revised location of VAV-1.15 switch.
- i. Detail 1 – Removed VAV-1.36 switch from detail.
- j. Kitchen Power Notes – Added to sheet.
- k. Keynotes – Added to sheet.

14. E1.16

- a. Detail 1 – Added keynote 26.53 to (4) elevator disconnects.
- b. Detail 1 – Revised (2) elevator control service disconnect notes.
- c. Detail 1 – Removed circuit from EF-7.
- d. Keynotes – Added to sheet.

15. E1.17

- a. Detail 1 – Added keynote 26.53 to (2) elevator disconnects.
- b. Detail 1 – Revised elevator control service disconnect note.
- c. Keynotes – Added to sheet.

16. E1.18

- a. Detail 1 – Revised scale of detail.
- b. Detail 1 - Added note for exhaust fan pre-wired, factory mounted, integral disconnects.
- c. Detail 1 – Added keynote 26.52 and GFI receptacle for MCUs maintenance.
- d. Detail 1 – Removed circuit to AHUs.
- e. Detail 1 – Added equipment tag for EF-10.
- f. Detail 1 – Added note for roof penetrations.
- g. Detail 1 – Added (1) GFI receptacle at AHU-1.
- h. Detail 1 – Added MAC-10 location and equipment tag.
- i. Keynotes – Removed keynote 28.06.
- j. Keynotes – Added keynote 26.52.

17. E1.19

- a. Fire alarm notes have been revised.

18. E1.21

- a. Detail 1 – Added keynote 26.54 to (1) phone/data in Group Room 01-08-10.
- b. Detail 1 – Added keynote 26.54 to (1) phone/data in Play Therapy 01-08-06.
- c. Detail 1 – Removed (1) phone/data from Office Therapist 01-08-15.
- d. Detail 1 – Added keynote 26.54 to (1) phone/data in Exercise Area 01-07-14.
- e. Detail 1 – Added keynote 26.54 to phone/data in Kitchen 01-14-04.
- f. Keynotes – Added to sheet.

19. E1.22

- a. Detail 1 – Added phone/data for chairs and counters in all Open Opp areas.
- b. Detail 1 – Added phone/data for (1) counter and chair in Closed Opp 02-17-35.
- c. Detail 1 – Added phone/data for (2) counters and chair in Closed Opp 02-17-49.
- d. Detail 1 - Added phone/data for (1) counter and chair in Closed Opp 02-17-11.
- e. Detail 1 – Added phone/data for (1) counter and chair in Closed Opp 02-17-10.
- f. Detail 1 – Added phone/data for (2) counters and chair in Closed Opp 02-17-48.

- g. Detail 1 – Removed (1) phone/data from Breakroom/Conf 02-17-04.
 - h. Keynotes – Added to sheet.
- 20. E1.23
 - a. Detail 1 – Added smoke detector to ELEC 02-05-12.
- 21. E2.01
 - a. Lighting zones updated.
 - b. Light fixture L5 added.
- 22. E2.02
 - a. Lighting zones revised.
- 23. E2.03
 - a. Lighting zones revised.
- 24. E2.04
 - a. Circuits have been updated.
- 25. E2.05
 - a. Detail 1 – Revised all wires to be shown as dashed.
- 26. E2.06
 - a. Detail 1 – Revised location of ceiling OS in Stair #2 01-00-10.
 - b. Detail 1 – Revised location of Type X1 fixture in Stair #2 01-00-01.
 - c. Detail 1 – Added light switch for (2) elevators.
 - d. Detail 1 – Added (1) Type X1 fixture to Circulation 01-00-11.
 - e. Detail 1 – Revised location of ceiling OS in Circulation 01-00-11.
 - f. Detail 1 - Added (1) Type X1 fixture to Circulation 01-01-05.
 - g. Detail 1 – Added (1) Type X1 fixture to Circulation 01-00-06.
 - h. Detail 1 – Added (1) Type X1 fixture to Lobby 01-00-01.
 - i. Detail 1 – Added (1) ceiling OS to Vestibule.
 - j. Keynotes – Added to sheet.

27. E2.07

- a. Detail 1 – Revised detail to be detail 1 previously on sheet E2.08.
- b. Detail 1 – Added (2) Type X1 fixtures to Circulation 01-13-01.
- c. Detail 1 – Added (1) Type X1 fixture to Circulation 01-11-00.
- d. Detail 1 – Revised switch to be dimmer switch in Exam Refrac 01-10-03.
- e. Detail 1 – Revised switch to be dimmer switch in Breastfeeding Room 01-11-02.
- f. Detail 1 – Added (1) switch to Reception 01-13-00.
- g. Detail 1 – Revised switch to be dimmer switch in Lactation 01-00-07.

28. E2.08

- a. Detail 1 – Revised detail to be detail 1 previously on sheet E2.07.
- b. Detail 1 – Revised (2) switches to be dimmer switches in Conference Room 01-16-07.
- c. Detail 1 – Revised all lighting in Conference Room 01-16-07 to be bi-level switched.
- d. Detail 1 – Revised (1) Type X1 fixture to be wall mounted in Circulation 01-00-12.
- e. Detail 1 – Added (1) Type X1 fixture to Circulation 01-16-11.
- f. Detail 1 – Added (1) Type X1 fixture to Pharmacy 01-15-14.
- g. Detail 1 – Revised location and quantity of faces for (1) Type X1 fixture in Pharmacy 01-15-14.
- h. Detail 1 – Revised location of (1) ceiling OS in Pharmacy 01-15-14.
- i. Detail 1 – Added (1) Type X1 fixture to Circulation 01-00-12.

29. E2.09

- a. Detail 1 – Added (2) ceiling OS to Circulation 01-00-06.
- b. Detail 1 – Added (1) switch to Circulation 01-00-06.
- c. Detail 1 – Added (1) Type X1 fixture to Circulation 01-00-06.
- d. Detail 1 – Removed (9) Type C1 fixtures from Circulation 01-00-06.
- e. Detail 1 - Added (5) Type L4 fixtures to Circulation 01-00-06.
- f. Detail 1 – Added (4) Type L2 fixtures to Circulation 01-00-06.
- g. Detail 1 – Removed (1) ceiling OS from Restroom Alcove.

- h. Detail 1 – Revised location of (1) ceiling OS in Restroom Alcove.
 - i. Detail 1 – Revised location of (1) ceiling OS in Men’s RR 01-00-04.
 - j. Detail 1 – Revised location of (1) ceiling OS in Women’s RR 01-00-03.
 - k. Detail 1 – Revised location of (2) Type C1 fixtures in Women’s RR 01-00-03.
30. E2.10
- a. Detail 1 - Revised (1) Type G1 fixture to be Type G2 in Stair #3 01-19-06.
 - b. Detail 1 – Removed (1) ceiling OS from Stair #3 01-19-06.
 - c. Detail 1 – Revised (1) Type X1 fixture two be dual faced in Circulation 01-00-13.
 - d. Detail 1 – Removed (1) ceiling OS from Employee Area 01-02-01.
 - e. Detail 1 - Revised location of (1) ceiling OS in Employee Area 01-02-01.
 - f. Detail 1 - Revised circuitry for light fixtures in MEP 01-05-01.
 - g. Detail 1 - Added keynote 26.41 to elevator Type G1 fixture.
 - h. Detail 1 – Added (2) Type X1 fixtures to Exercise Area 01-07-14.
 - i. Detail 1 – Removed (1) Type X1 fixture from Exercise Area 01-07-14.
 - j. Detail 1 – Added (1) Type X1 fixture to Circulation 01-09-01.
 - k. Detail 1 – Removed switch from Office Therapist 01-08-14.
 - l. Detail 1 – Added (1) Type X1 fixture to Circulation 01-07-02.
 - m. Detail 1 – Revised (2) Type G1 fixtures to be Type G2 in Stair #1 01-14-03.
31. E2.11
- a. Detail 1 – Added circuitry note for circuit HE3-1.
 - b. Detail 1 – Added (1) switch to Shell Space 02-19-01.
 - c. Detail 1 – Added (2) switches to Shell Space 02-19-02.
32. E2.12
- a. Detail 1 – Added (11) switches for Open Opp areas.
 - b. Detail 1 – Added (1) Type G1 fixture to Shell Space 02-19-01.
 - c. Detail 1 - Added (1) Type X1 fixture to Circulation 02-17-27.

- d. Detail 1 – Removed wall OS from EVS Closet 02-17-30.
- e. Detail 1 – Added (1) ceiling OS to EVS Closet 02-17-30.
- f. Detail 1 - Added (1) ceiling OS to Storage 02-17-29.
- g. Detail 1 – Removed wall OS from Storage 02-17-38.
- h. Detail 1 – Added (1) ceiling OS to Storage 02-17-38.
- i. Detail 1 – Removed (1) Type X1 fixture from Circulation 02-17-45.
- j. Detail 1 – Revised (1) Type X1 fixture to be wall mounted in Circulation 02-17-07.
- k. Detail 1 – Added (1) Type X1 fixture to Waiting 02-17-00.
- l. Detail 1 – Revised (1) Type X1 fixture to be single faced in Circulation 02-18-00.
- m. Detail 1 – Hallway ceiling has been removed. Hallway fixtures changed to G1 fixture

33. E2.13

- a. Detail 1 – Hallway ceiling has been removed. Hallway fixtures changed to G1 fixture
- b. Detail 1 – Added(1) G2 fixture in stairs #1 and #3

34. E3.01

- a. Fault current schedule revised.
- b. Detail 1 – H1 feeder size changed to 200 amps.

35. E3.02

- a. Circuit HE1-4 wire size changed to #8
- b. Circuit HE1-18 wire size change to #8
- c. Circuit HE3-14,16,18 circuit breaker size changed to 30amp.

36. E3.03

- a. Fault current schedule revised.
- b. Detail 1 – H1 feeder size changed to 200 amps.

37. E3.04

- a. Panel schedule L1A revised.
- b. Circuit L2A-97 added

- c. Panel schedule L3A revised.
- d. Circuit breakers L1B 31,33 and L1B 32,34 changed to 15amps
- e. Circuit breaker L1B-57 added.
- f. Circuit breaker L3B-43 added.

38. E3.05

- a. Panel schedule L4A revised.
- b. Circuit breakers L4B 1,3 and L4B 4,6 changed to 15amps

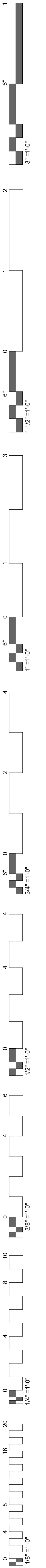
PLUMBING DESIGN ITEMS

- 1. P1.00:
 - a. The booster pump schedule has been fixed to show the BP-1 information.
 - b. SP-1 – Addition electrical information has been added. Trim information has been corrected.

SPEC SECTIONS

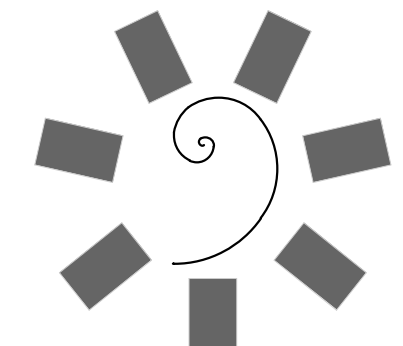
- 1. Division 28 specification added.
 - a. 283111 digital, addressable fire-alarm system spec added.
- 2. Division 21 specifications added.
 - a. 210513 common motor requirements for fire suppression equipment spec added.
 - b. 210517 sleeves and sleeve seals for fire-suppression piping spec added.
 - c. 210518 escutcheons for fire-suppression piping spec added.
 - d. 210523 general-duty valves for water-based fire-suppression piping spec added.
 - e. 210553 identification for fire-suppression piping and equipment spec added.
 - f. 211119 fire-department connections spec added.
 - g. 211313 wet-pipe sprinkler systems spec added.
 - h. 211316 dry-pipe sprinkler systems spec added.

END OF RESPONSES



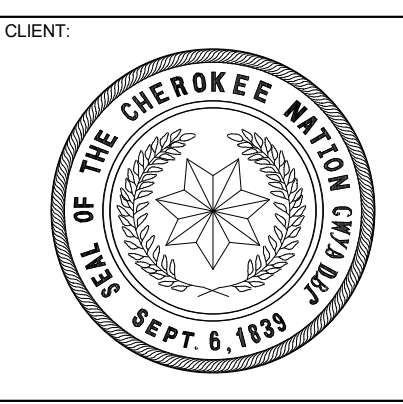
GENERAL NOTES - FLOOR PLAN

1. INTERIOR DIMENSIONS ARE TO THE FACE OF DRYWALL OR FINISH.
2. ALL EXTERIOR DIMENSIONS ARE TO THE FACE OF EXTERIOR SHEATHING, UNLESS OTHERWISE NOTED.
3. REFER TO SHEET A2 FOR SERIES FOR EXTERIOR ELEVATIONS.
4. REFER TO SHEET A6-01 - A6-02 FOR PARTITION TYPES AND FRAMING DETAILS.
5. REFER TO SHEET A8-10 FOR DOOR SCHEDULE.
6. REFER TO SHEET A8-20 SERIES FOR TOILET & ACCESSORY INFORMATION.
7. REFER TO SHEET A8 SERIES FOR MILLWORK AND INTERIOR ELEVATIONS.

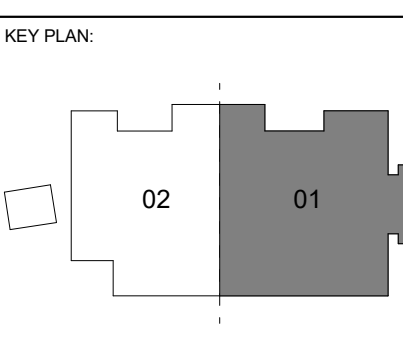


**James R. Childers
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479-783-2450
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**WILMA P. MANKILLER HEALTH CENTER
EXPANSION**
STILWELL, OKLAHOMA



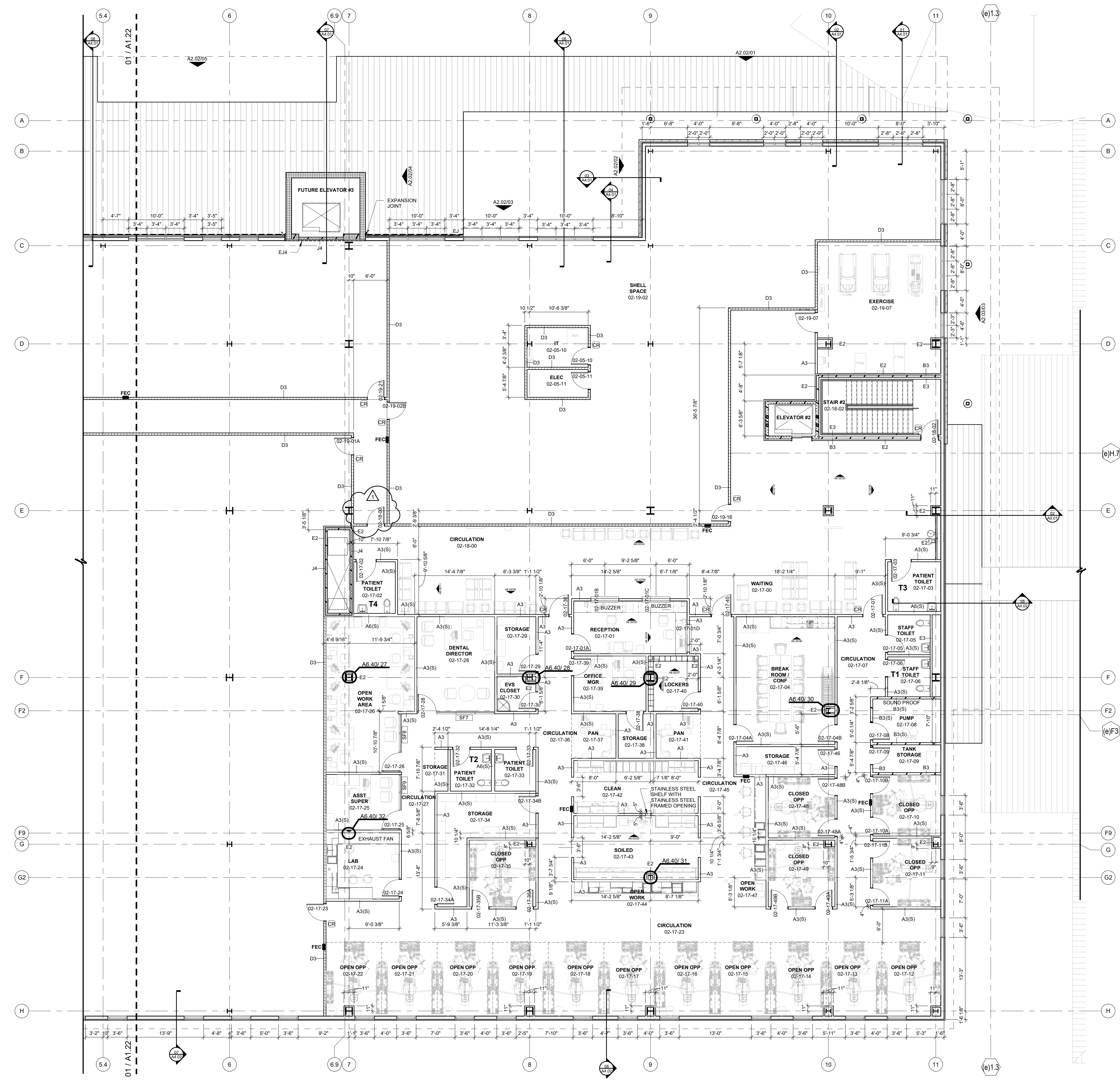
PROJECT PHASE:
BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
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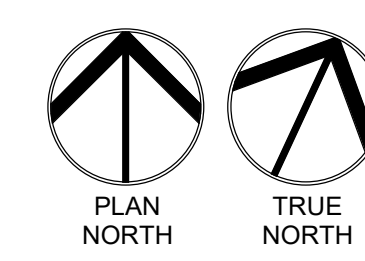
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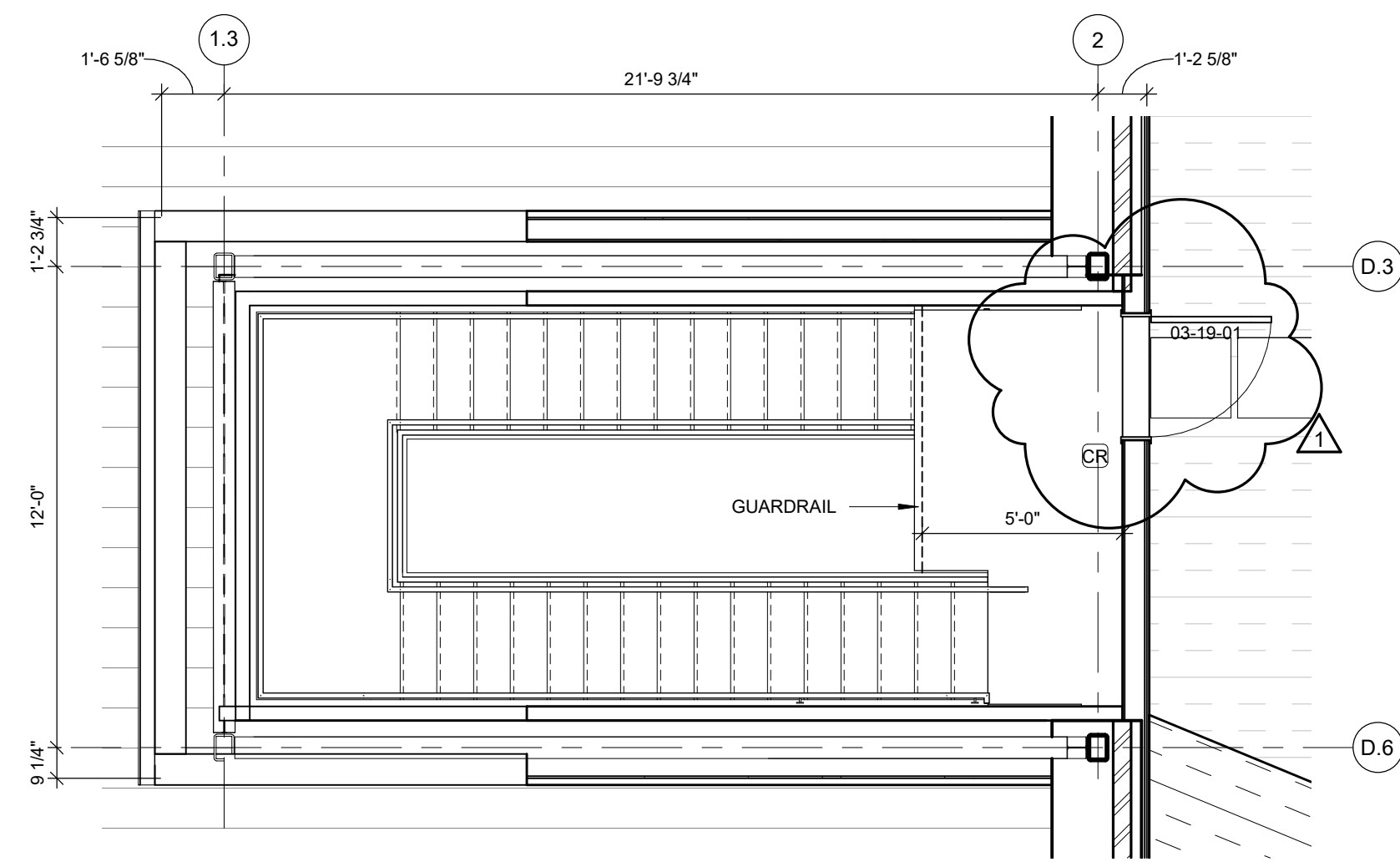
SHEET NUMBER:
A1.21

FLOOR PLAN LEVEL 02
SECTOR 01



01 FLOOR PLAN LEVEL 02 SECTOR 01
1/8" = 1'-0"





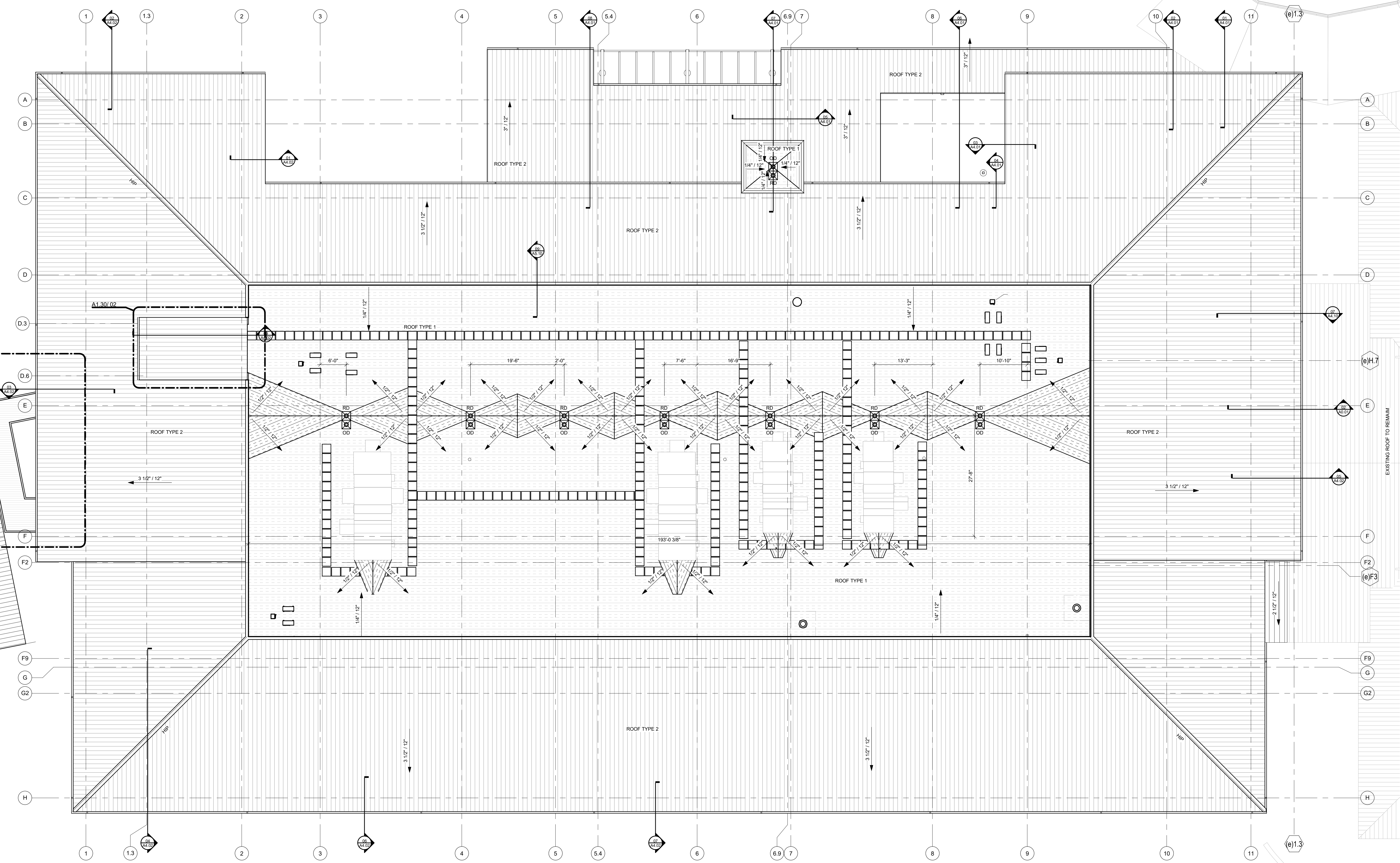
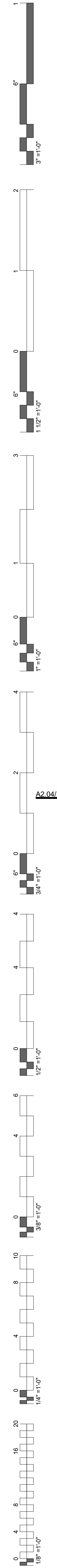
02 STAIR #1 ROOF
1/4" = 1'-0"

ROOF LEGEND

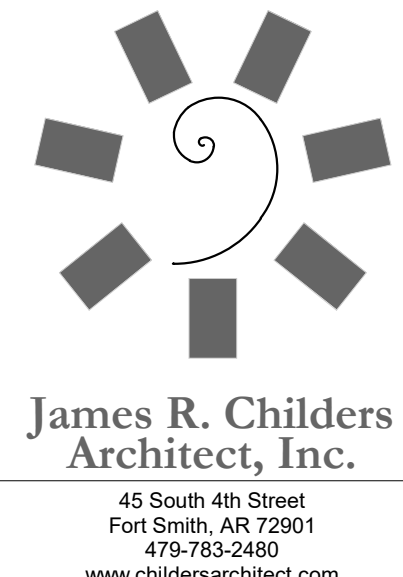
- TAPERED INSULATION
- STANDING SEAM METAL ROOF
- PRE-ENGINEERED CANOPY SYSTEM
- ROOF DRAIN AND OVERFLOW DRAIN
- WALKWAY PROTECTION

ROOF PLAN GENERAL NOTES

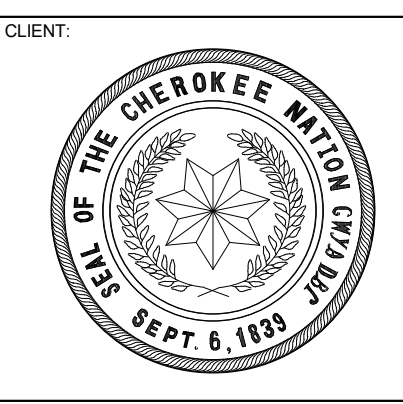
1. ROOF TYPES ARE AS FOLLOWS:
1. ROOF TYPE 1: SINGLE PLY ROOFING
2. ROOF TYPE 2: STANDING SEAM METAL ROOF
3. ROOF TYPE 3: PRE-ENGINEERED ALUMINUM CANOPY
2. ALL ROOFING SURFACES TO SLOPE 1/4" VERTICAL PER 1'-0" HORIZONTAL MINIMUM, UNLESS NOTED OTHERWISE.
3. HATCHING INDICATES AREAS WHERE THE ROOF SLOPE IS ACHIEVED WITH TAPERED INSULATION.
4. TOP OF INSULATION HEIGHTS, HIGH POINTS AND LOW POINTS, ARE INDICATED AS THE TOP OF ROOF SURFACE ABOVE THE ROOF DRAINS, (I.E. +4.5' WHERE HIGH POINT OF ROOF DRAIN SUMP IS +0').
5. ALL ROOF TOP MECHANICAL, ELECTRICAL, AND/OR PLUMBING EQUIPMENT SHOWN FOR INFORMATION ONLY. REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS AND SPECIFICATIONS FOR SPECIFIC DESIGN INFORMATION.
6. PROVIDE WALKWAY PROTECTION TO MAJOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT AS REQUIRED TO PROVIDE SERVICE ACCESS. WALKWAY PROTECTION IS INDICATED AS A GENERAL LAYOUT AND MAY NOT SHOW ALL FINAL LOCATIONS OF ALL EQUIPMENT.
7. EXISTING ROOFS TO REMAIN, UNLESS NOTED OTHERWISE.
8. REFERENCE DEMOLITION PLANS, SECTIONS.
9. PATCH AND REPAIR EXISTING ROOFS DAMAGED DURING CONSTRUCTION.



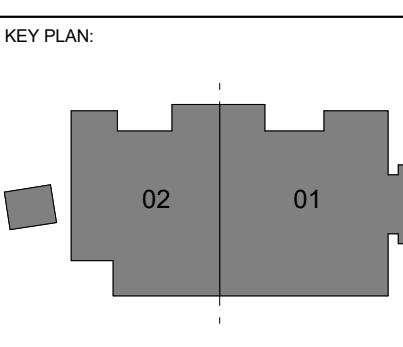
01 OVERALL ROOF PLAN
1" = 10'-0"
PLAN NORTH
TRUE NORTH



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**WILMA P. MANKILLER HEALTH CENTER
EXPANSION**
STILWELL, OKLAHOMA



PROJECT PHASE:
BID PACKAGE 02

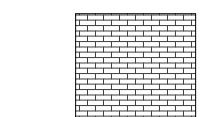
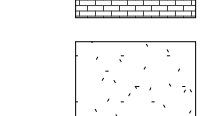
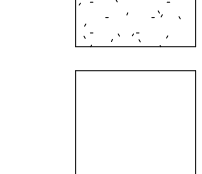
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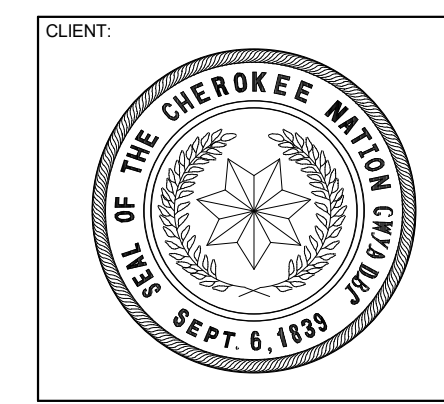
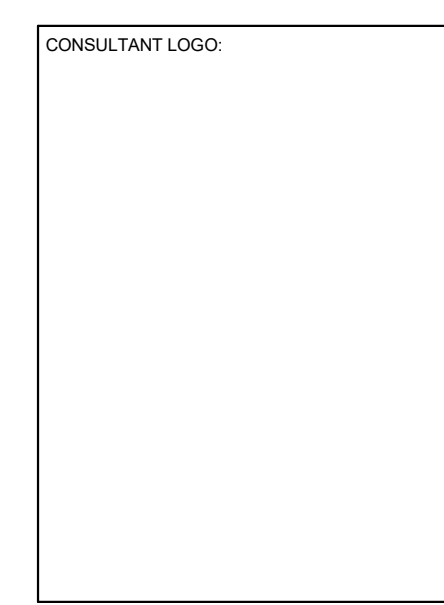
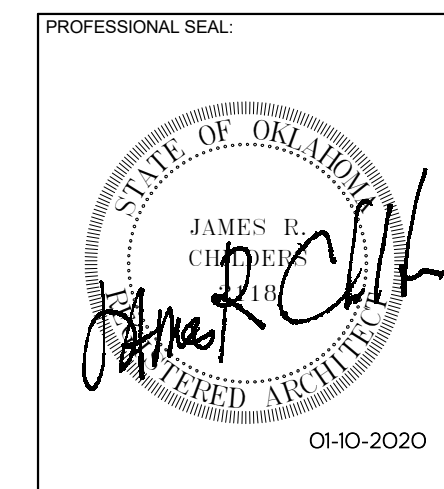
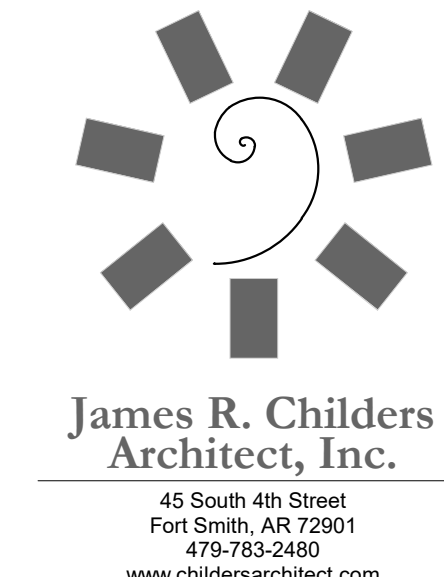
DATE: 12-06-19
JOB NUMBER: 18-01.01

SHEET NUMBER:
A1.30

OVERALL ROOF PLAN

MATERIAL LEGEND

-  BRICK VENEER
-  EIFS SYSTEM
-  TINTED INSULATED GLAZING



WILMA P. MANKILLER HEALTH CENTER
EXPANSION
STILWELL, OKLAHOMA

KEY PLAN

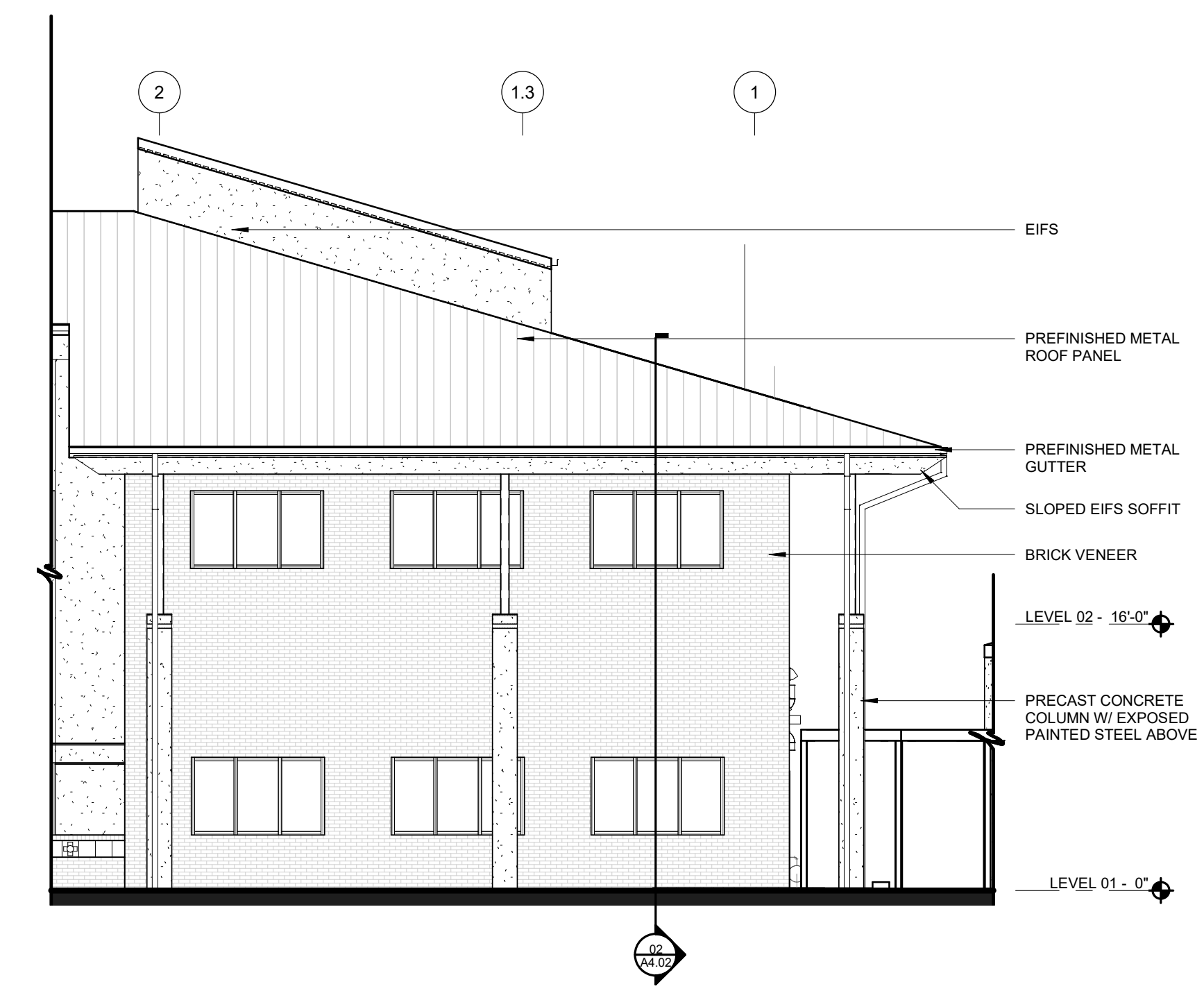
PROJECT PHASE
BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 01	

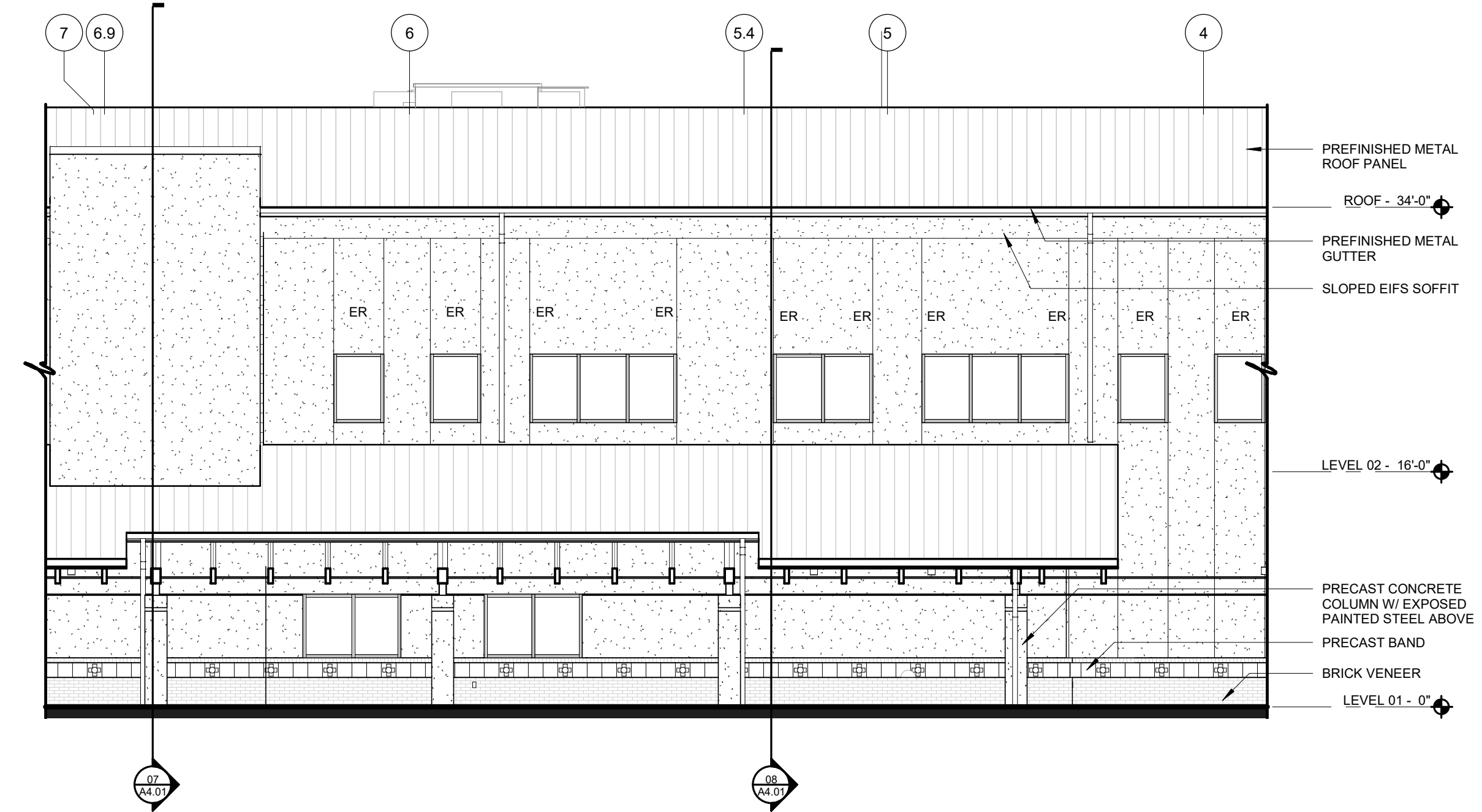
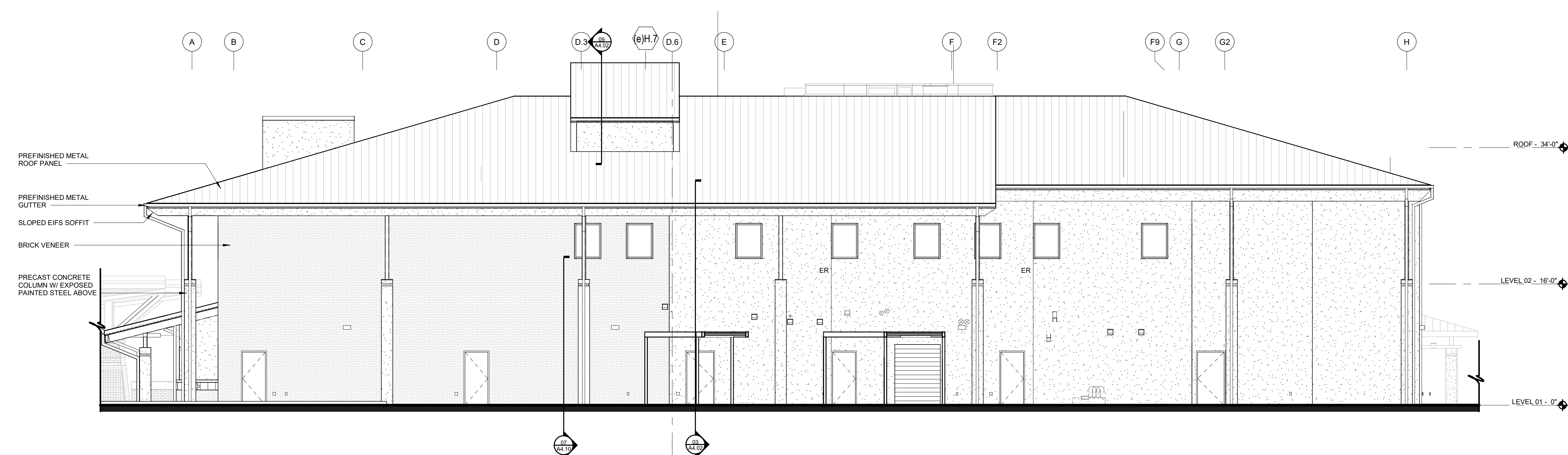
DATE: 12-06-19
JOB NUMBER: 18-01.01

SHEET NUMBER:
A2.02

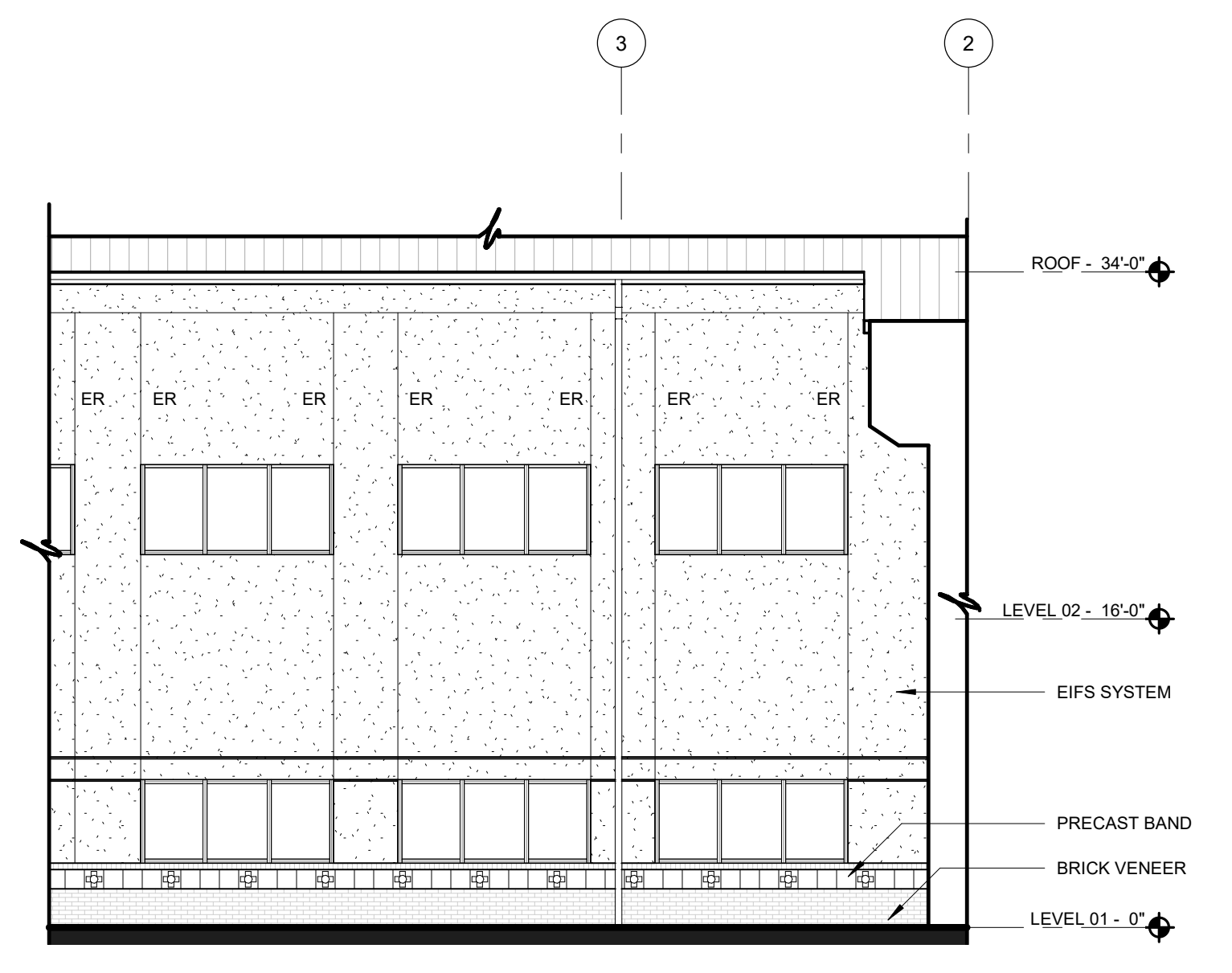
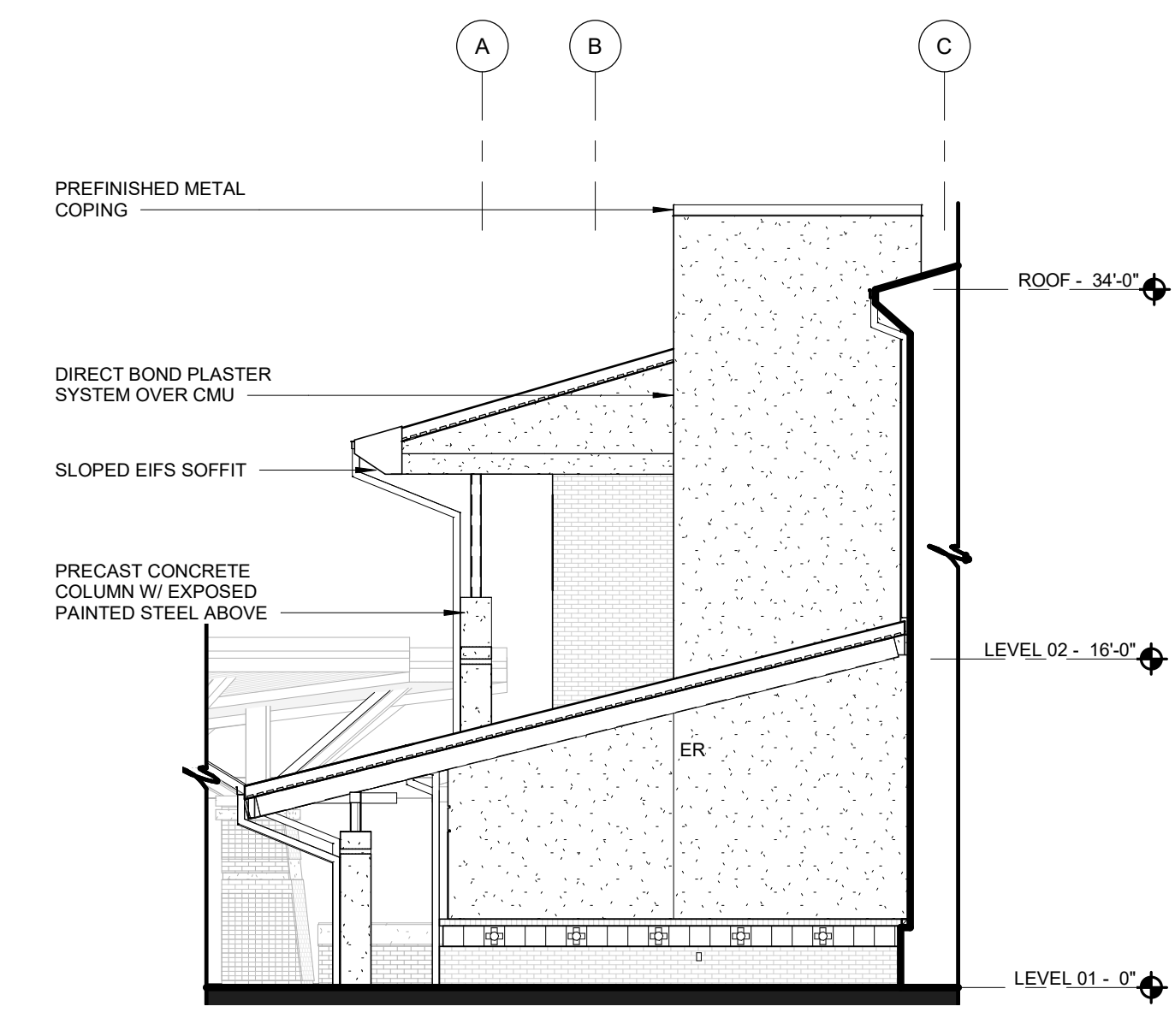
ENLARGED EXTERIOR ELEVATIONS



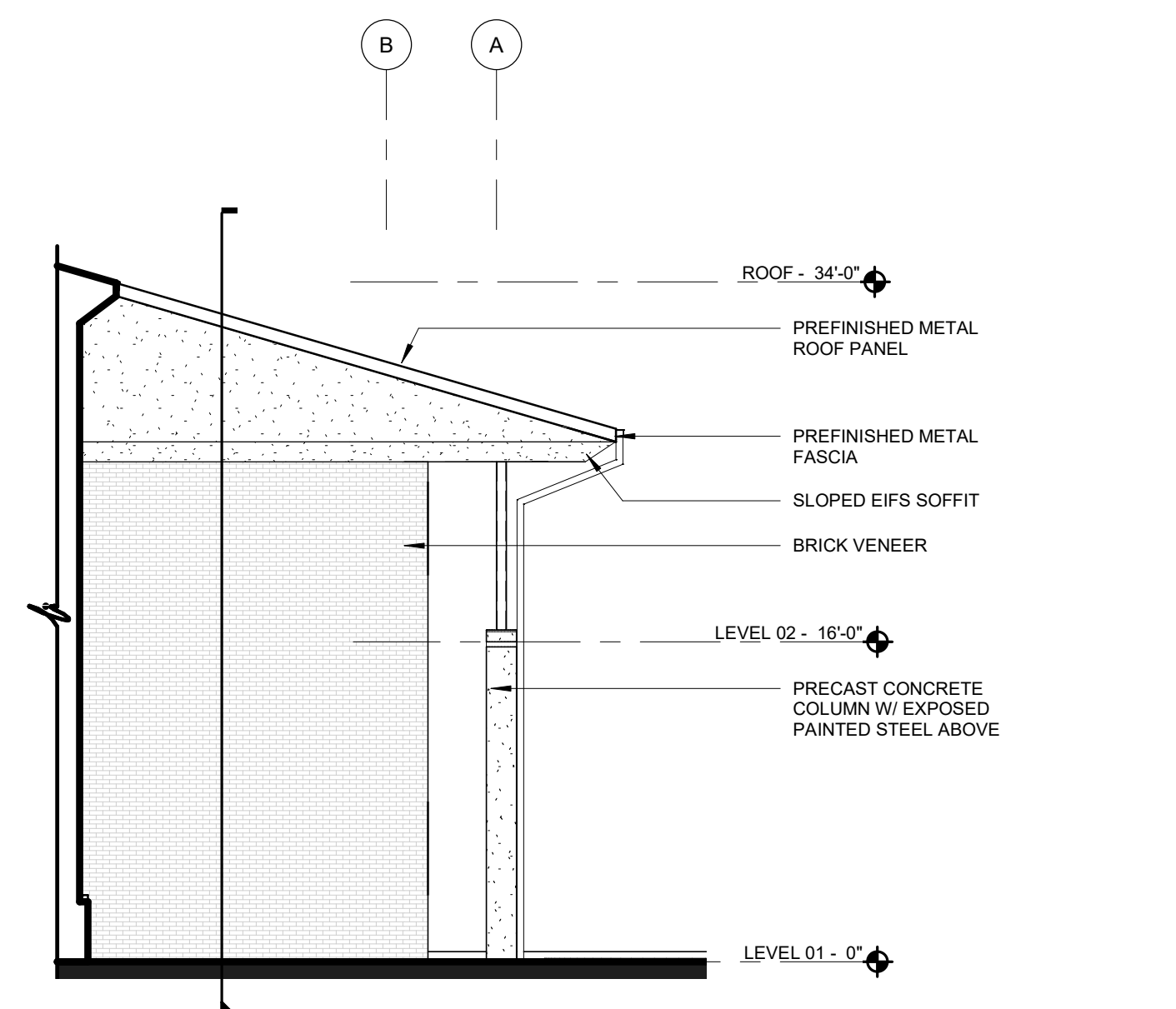
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1/8" = 1'-0"



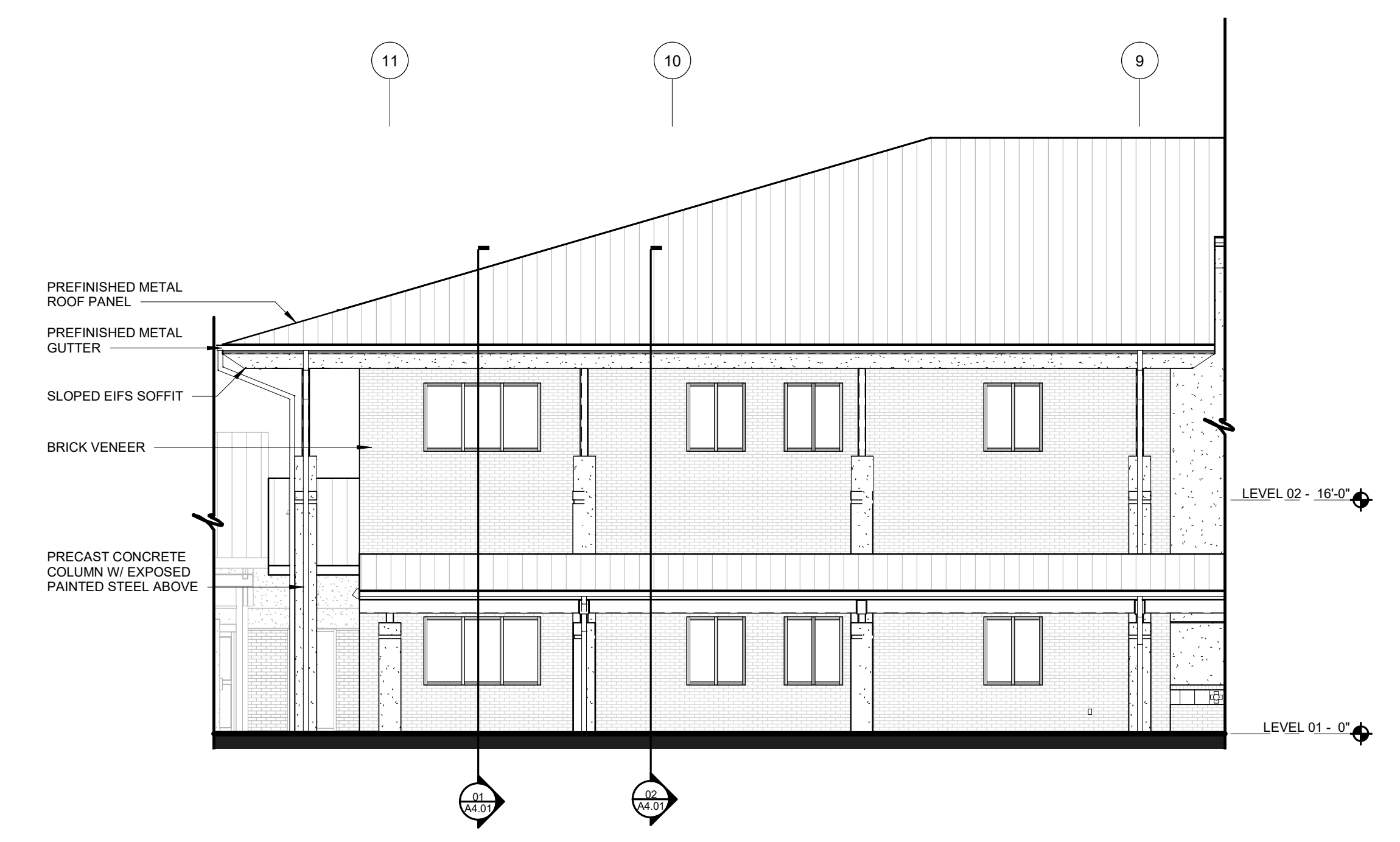
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1/8" = 1'-0"



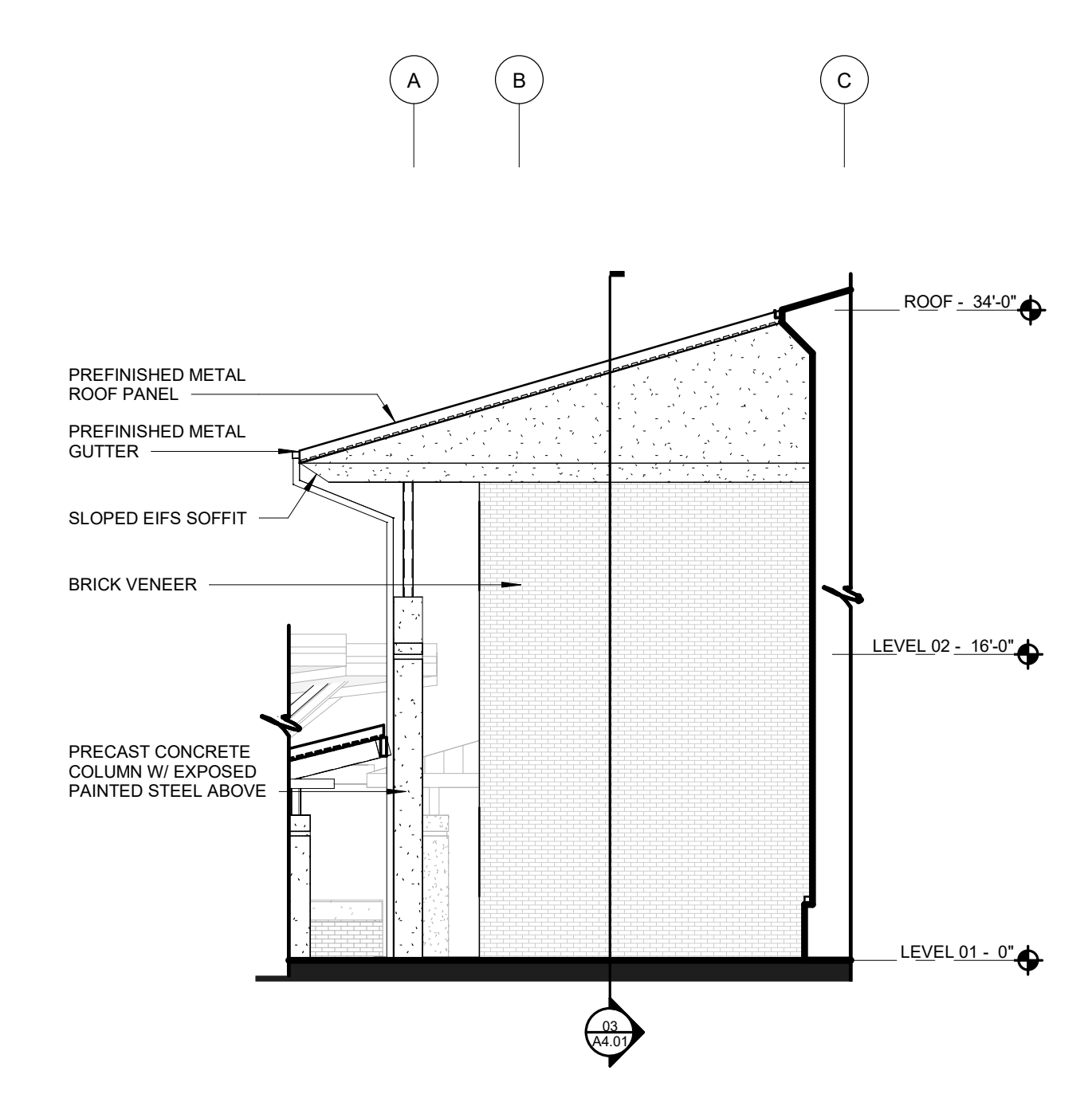
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1/8" = 1'-0"



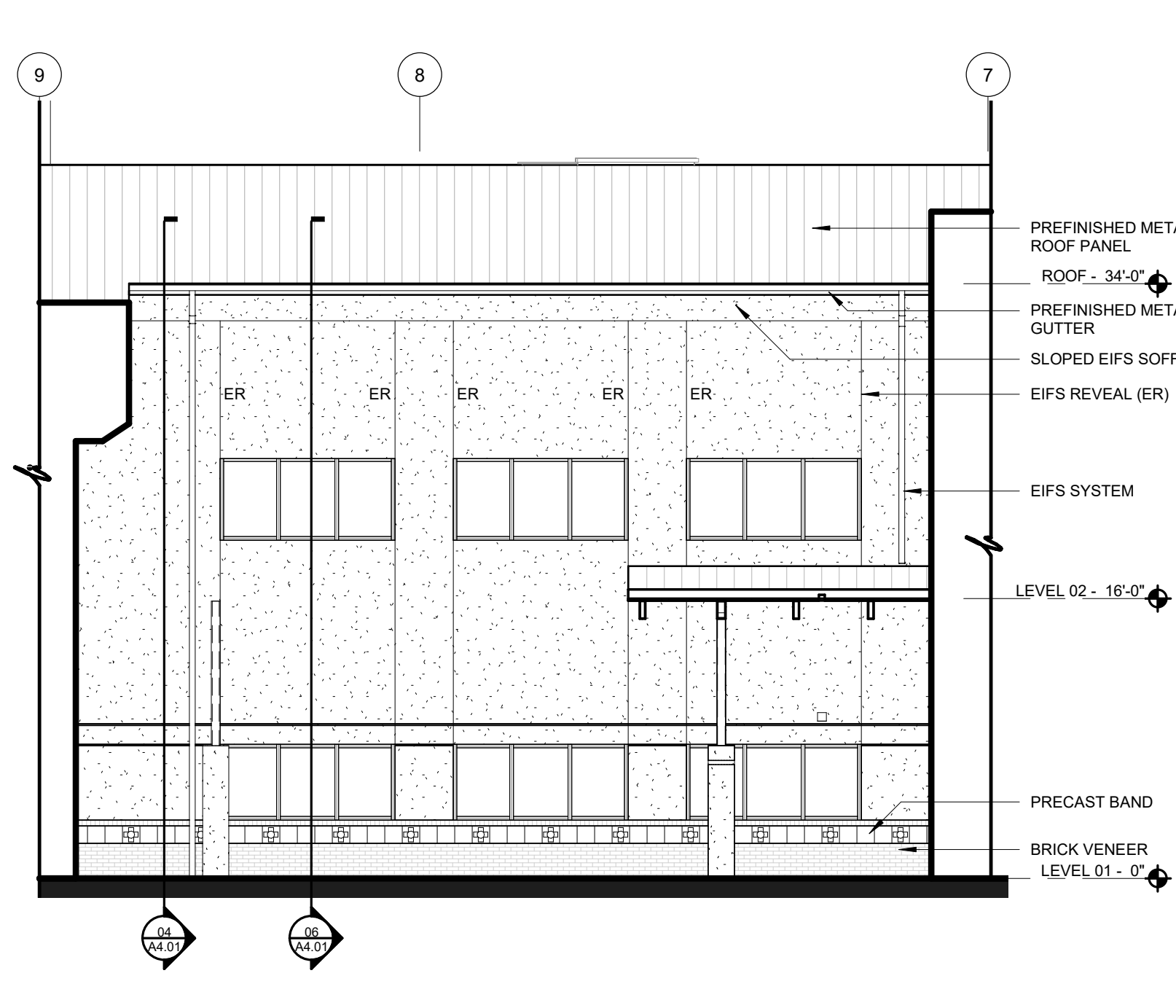
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1/8" = 1'-0"



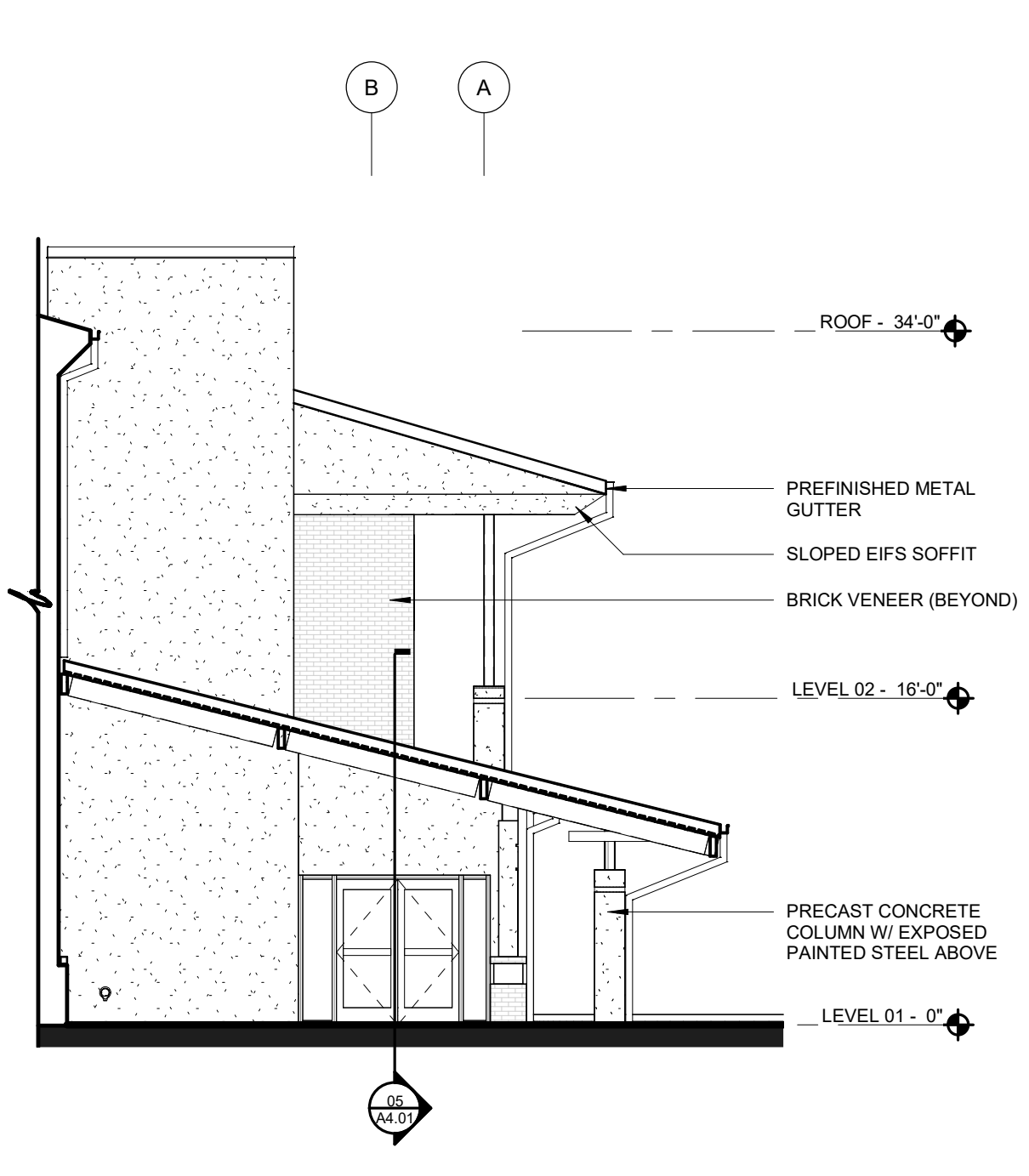
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1/8" = 1'-0"



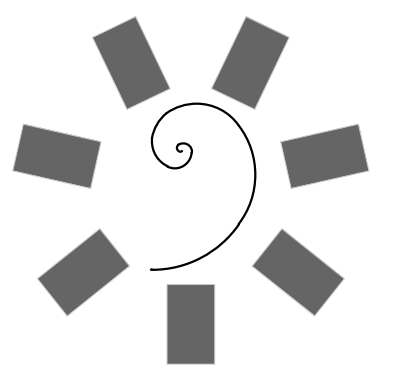
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1/8" = 1'-0"



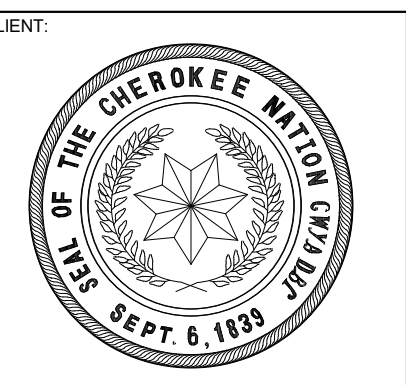
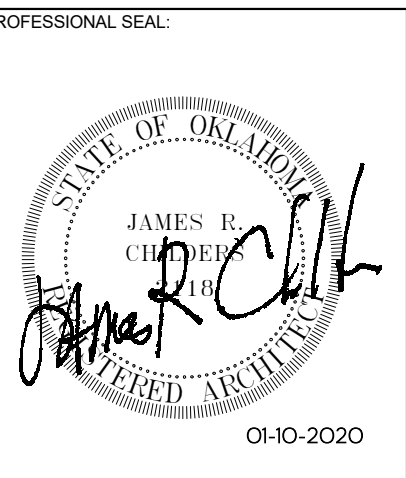
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1/8" = 1'-0"



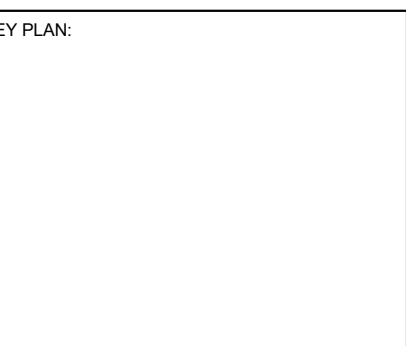
04 ENLARGED ELEVATION
1/8" = 1'-0"



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PROJECT PHASE
BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
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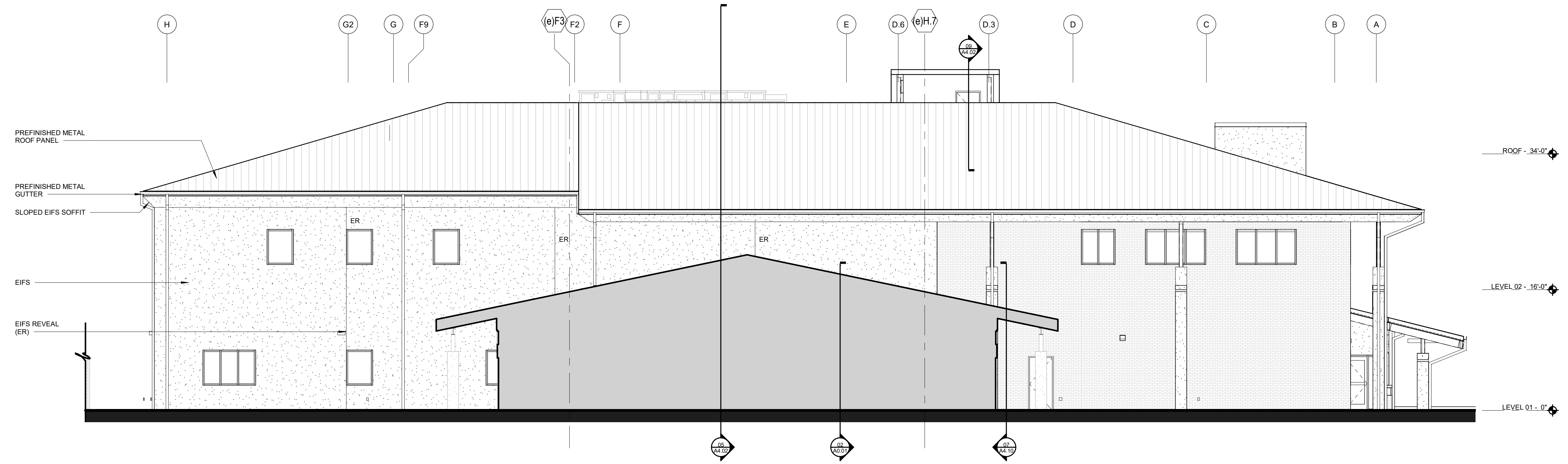
DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER: A2.03

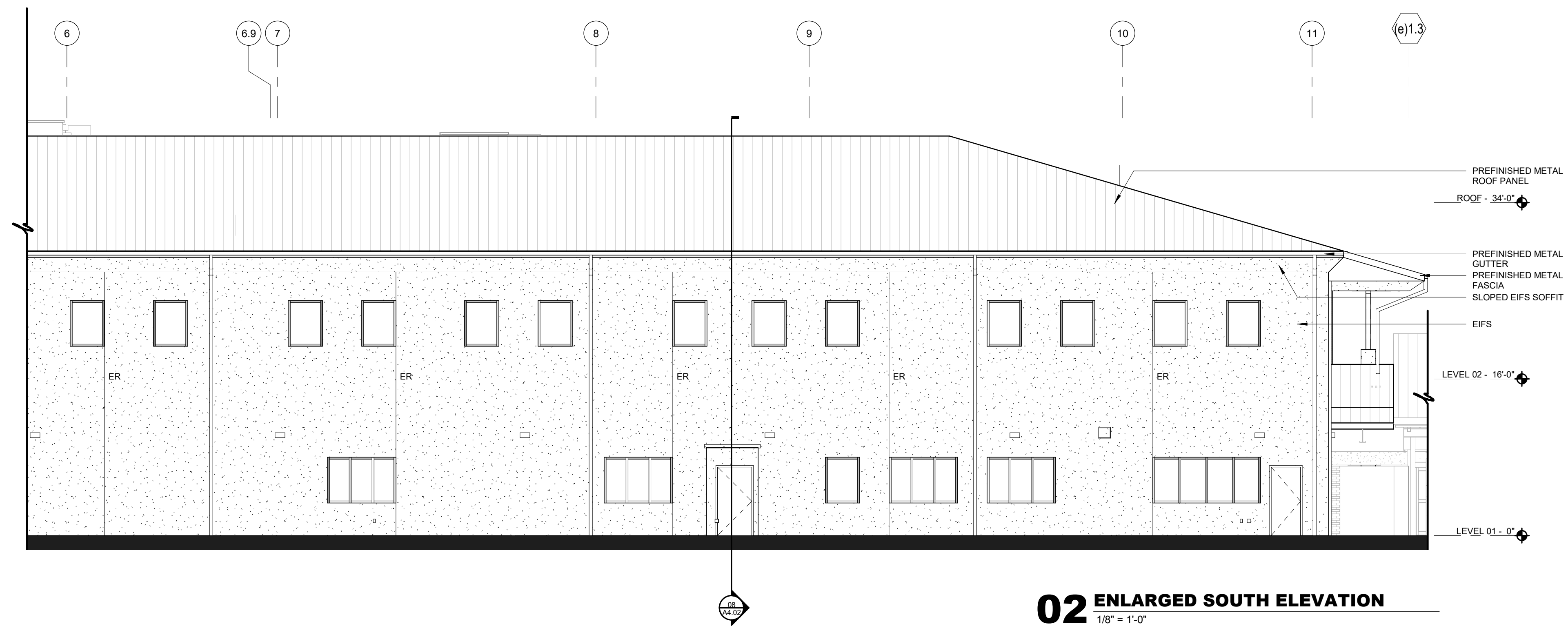
ENLARGED EXTERIOR ELEVATIONS

MATERIAL LEGEND

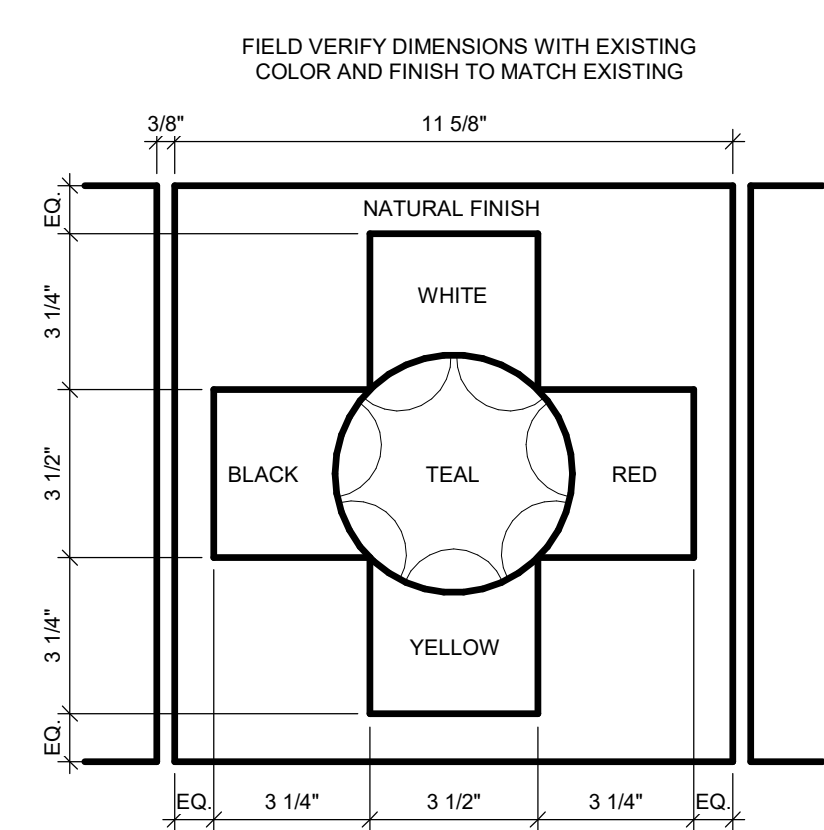
- BRICK VENEER
- EIFS SYSTEM
- TINTED INSULATED GLAZING



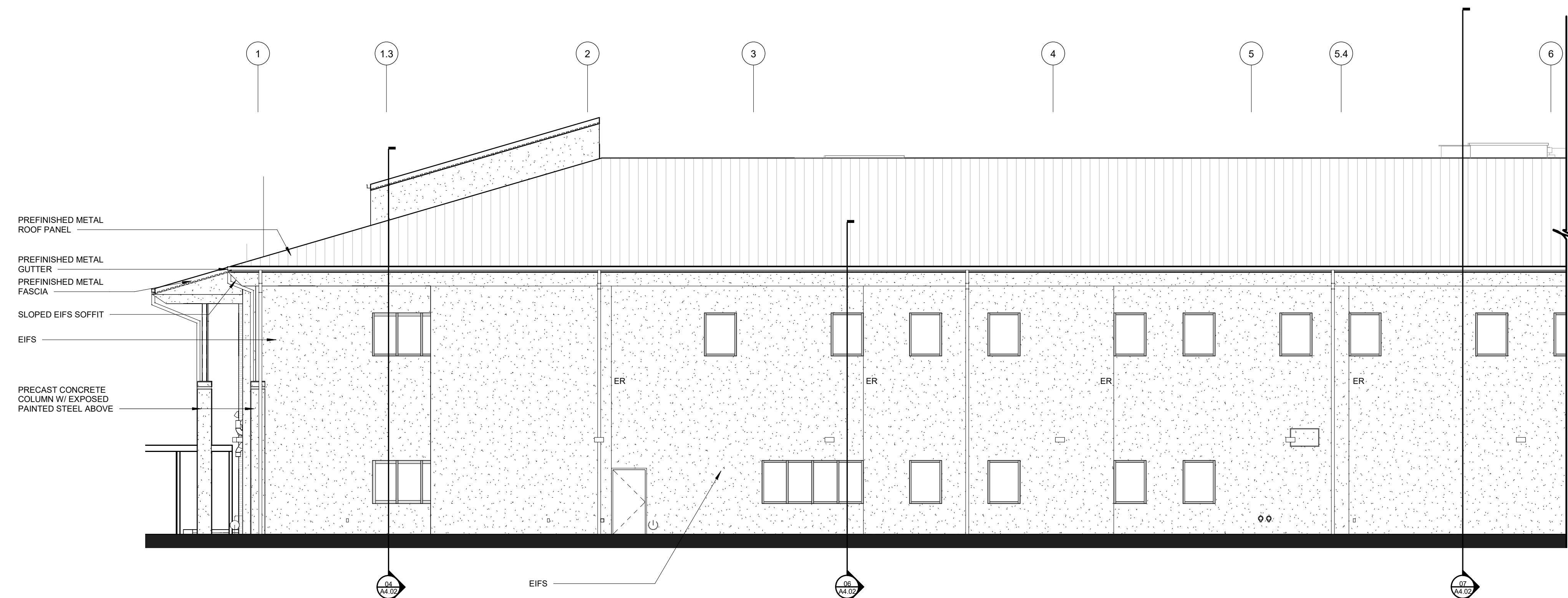
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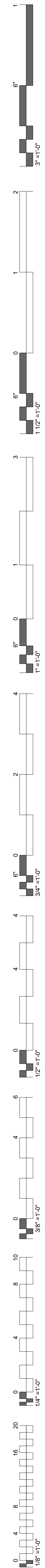
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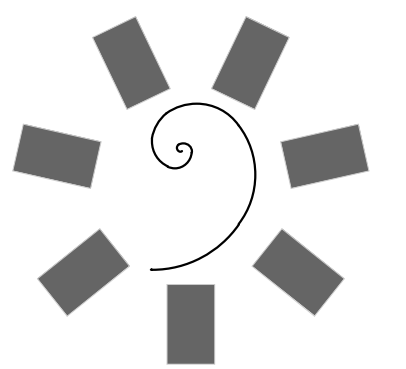


04 PRECAST PANEL DETAIL
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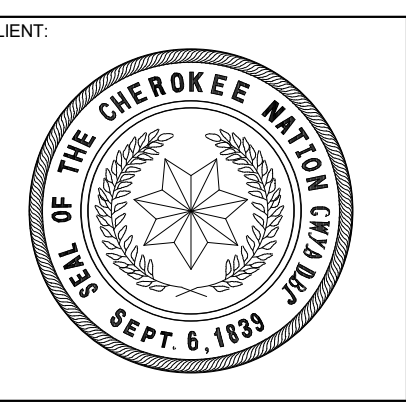
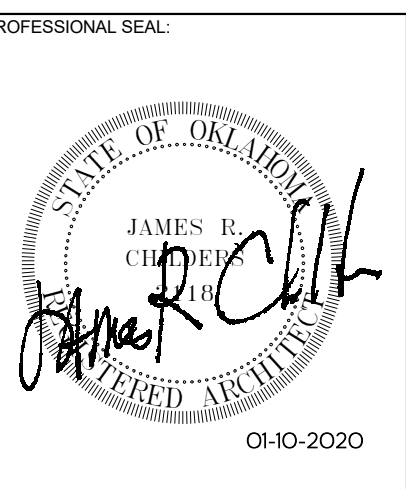


01 ENLARGED SOUTH ELEVATION
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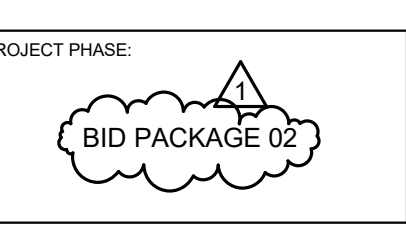
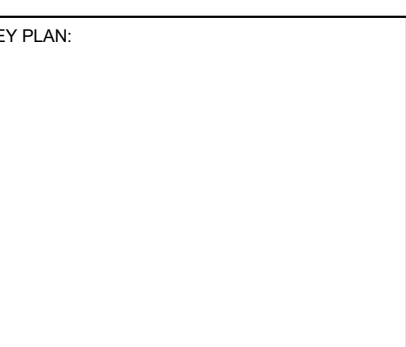




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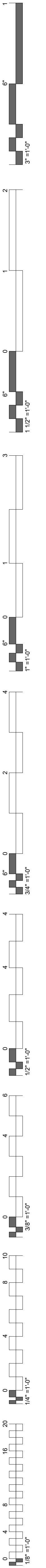
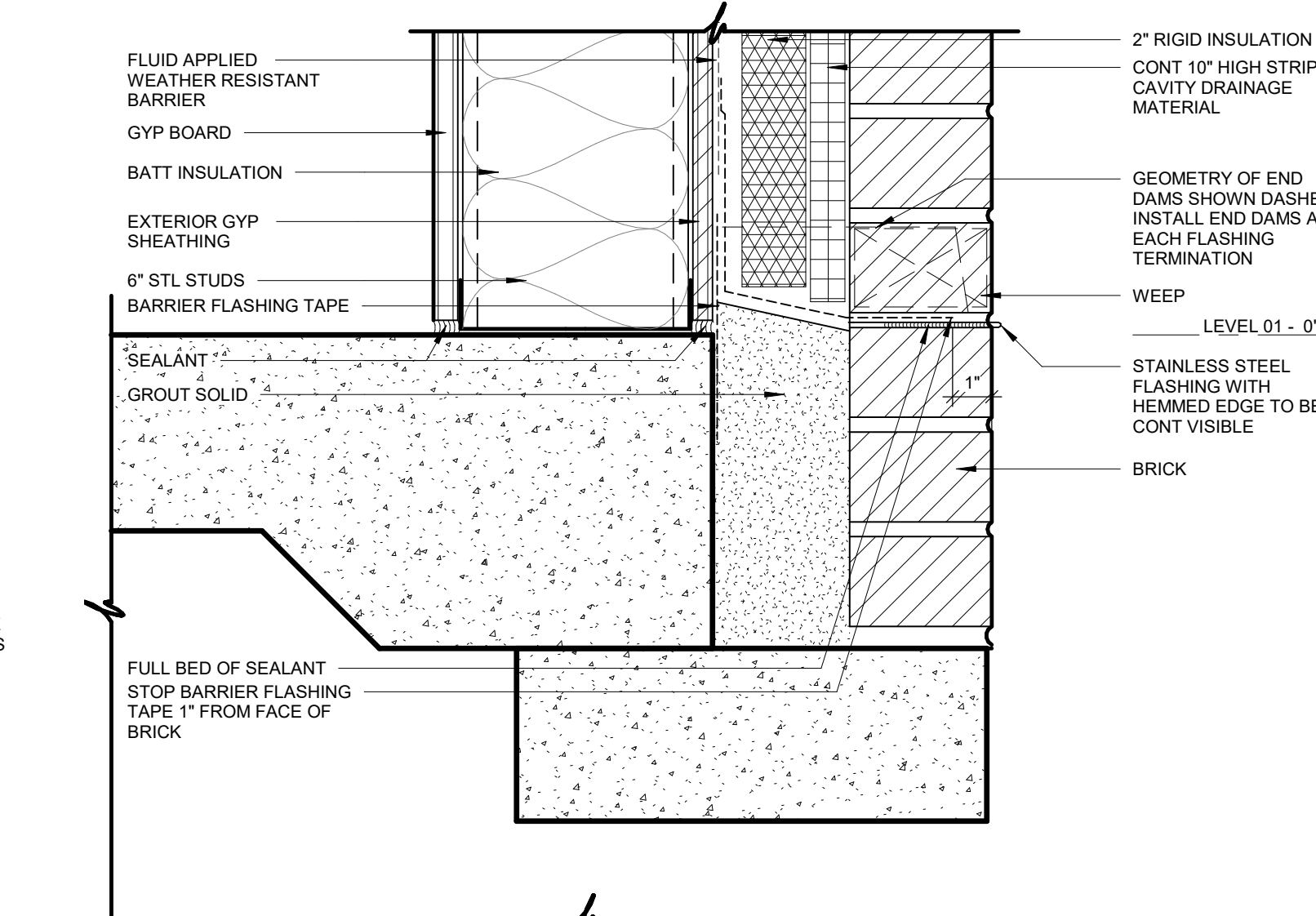
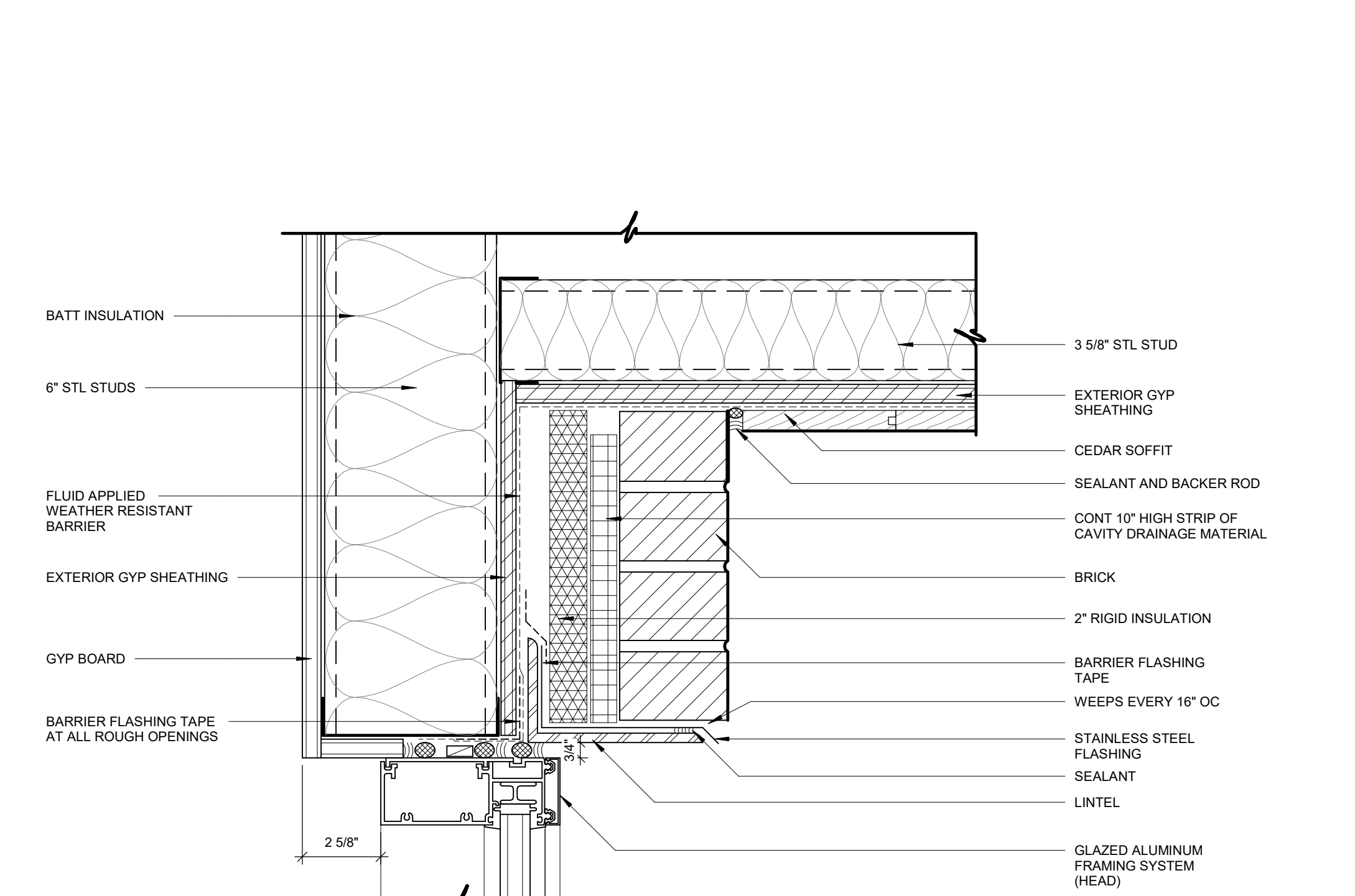
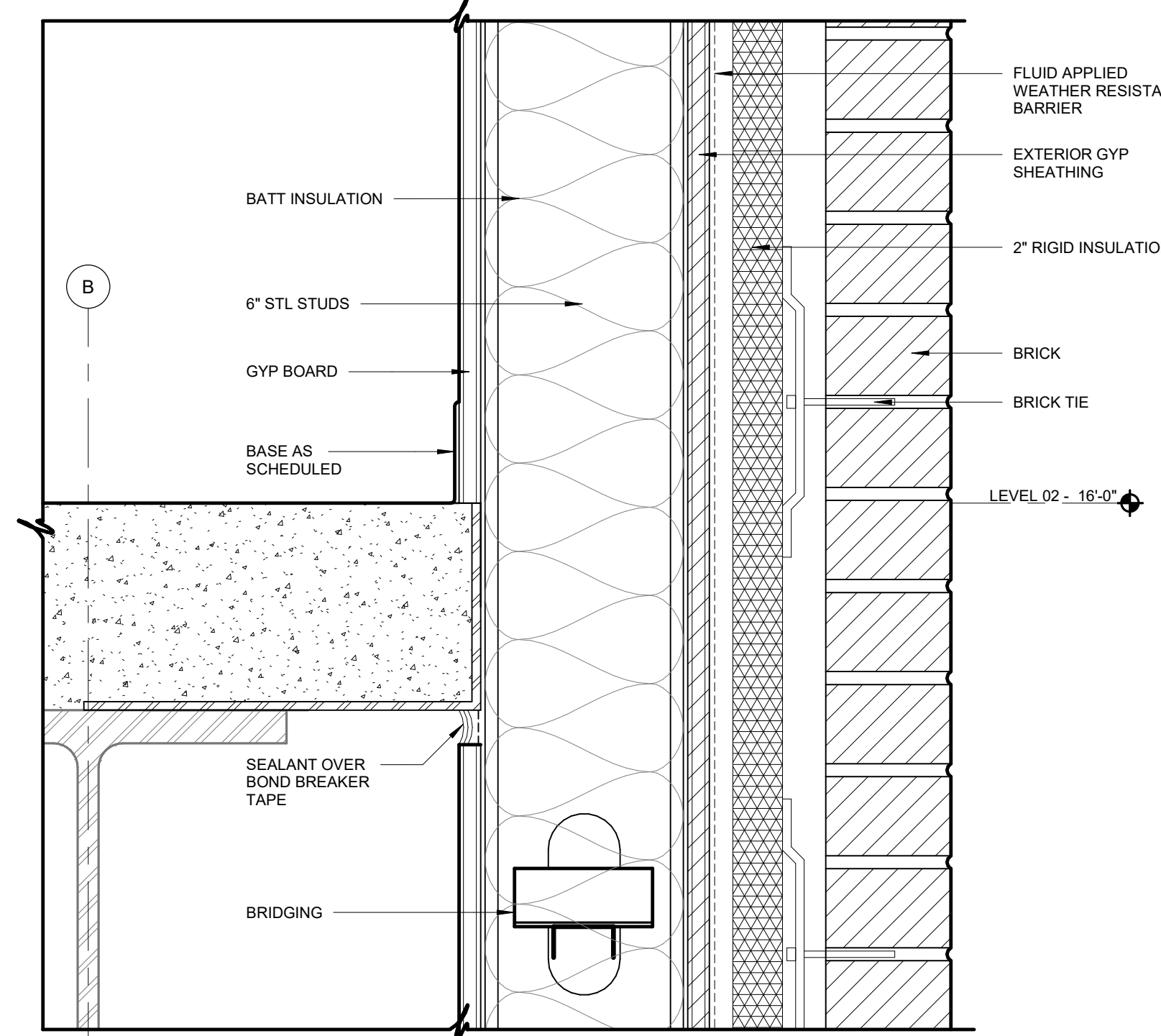
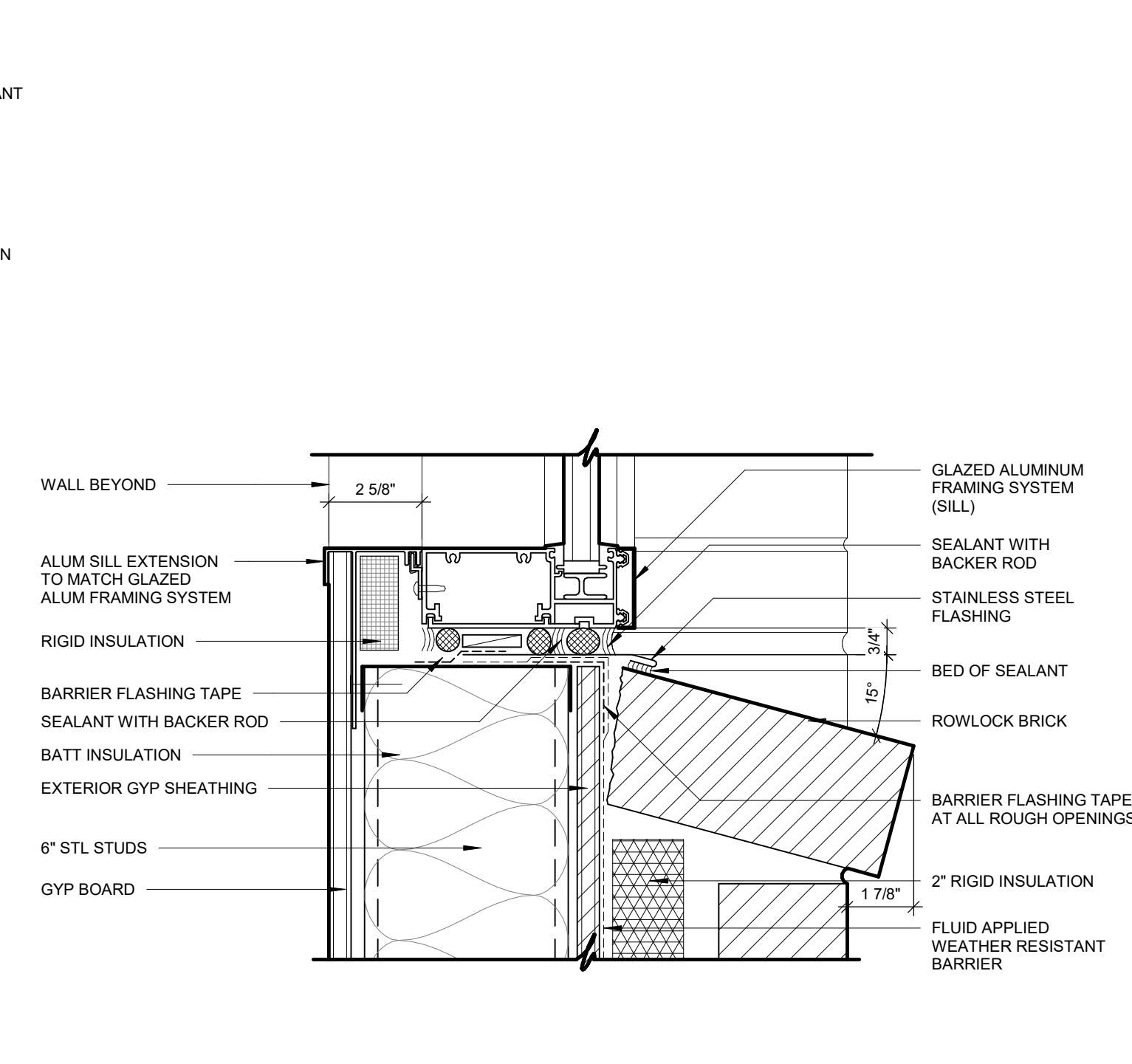
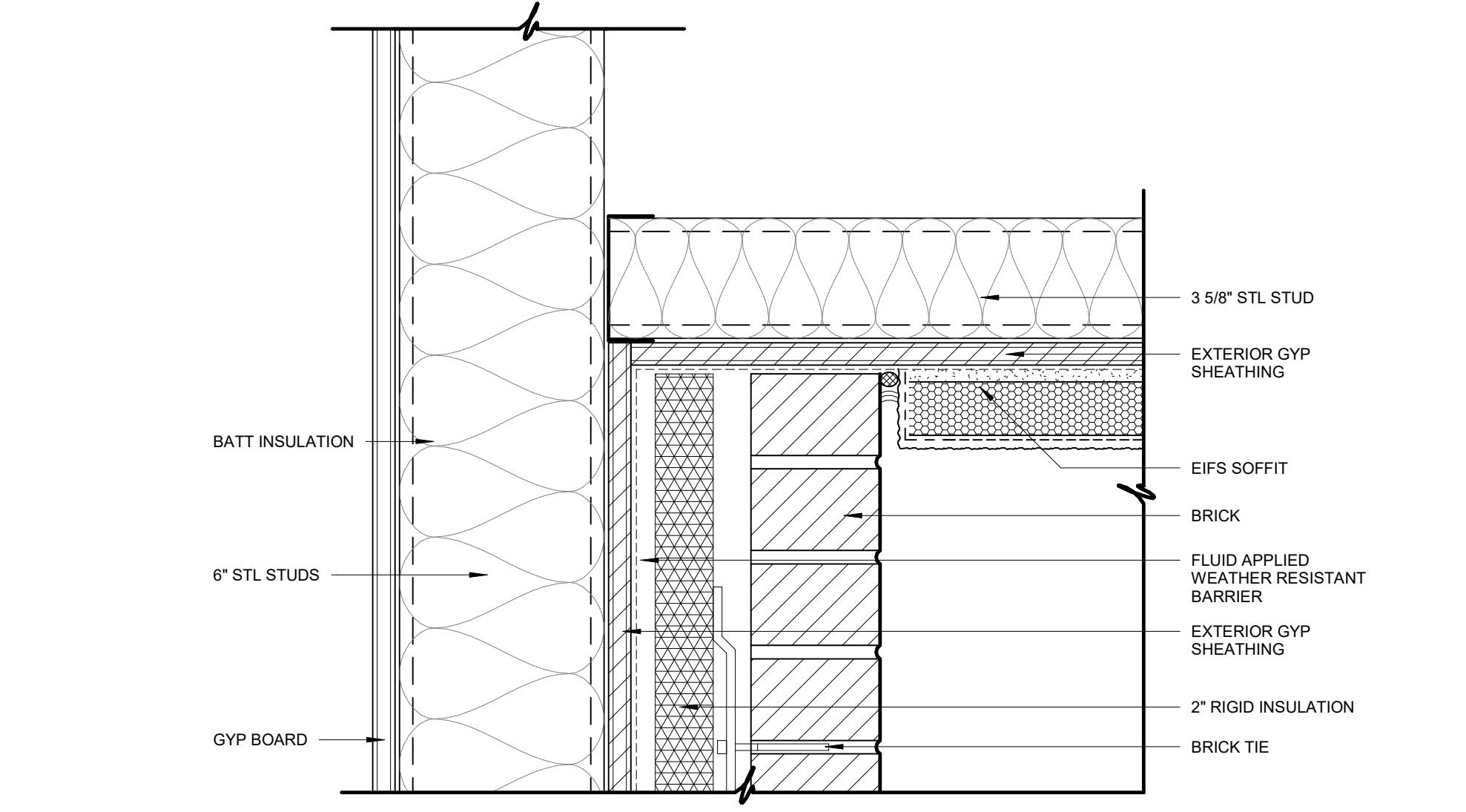
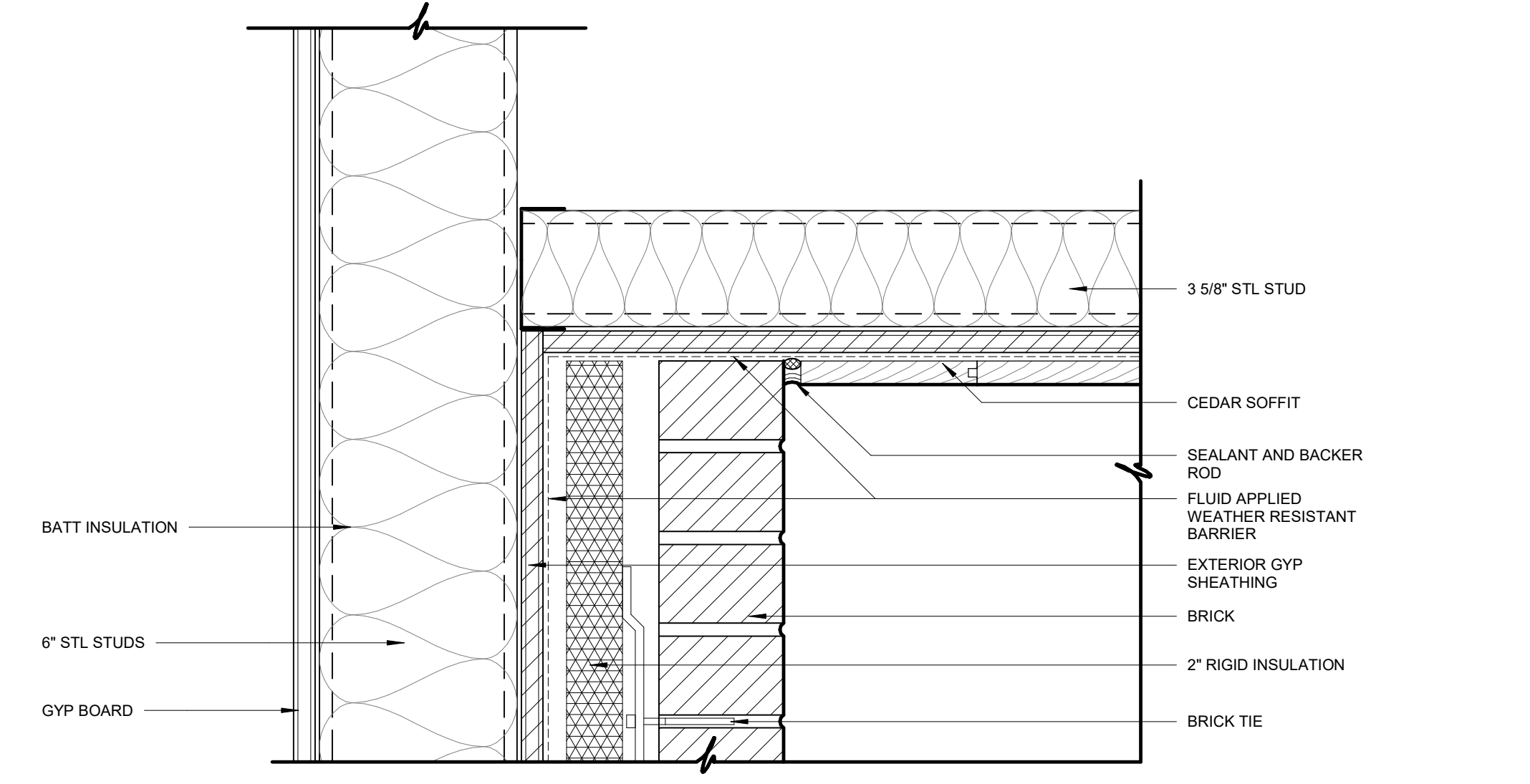
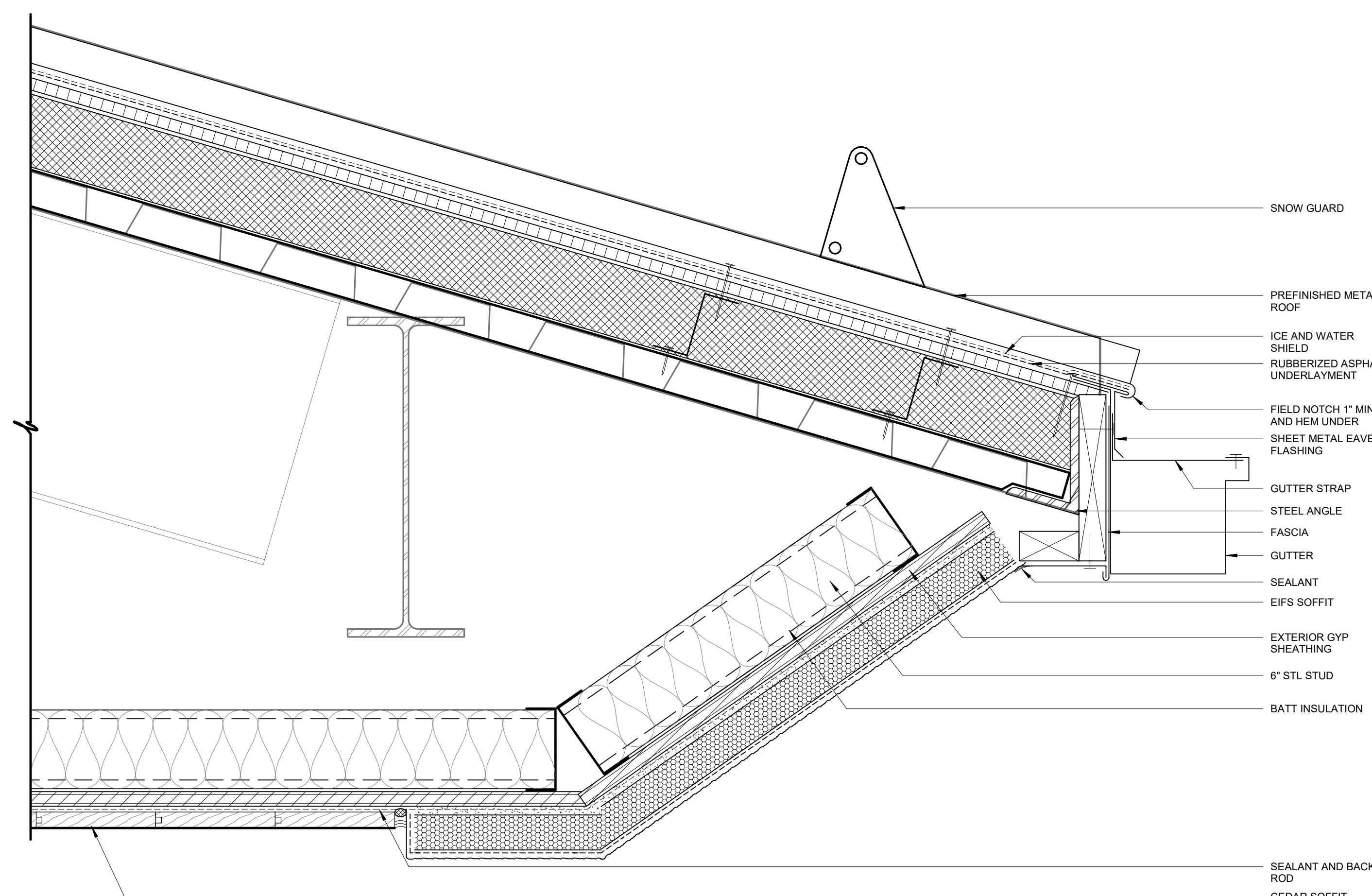
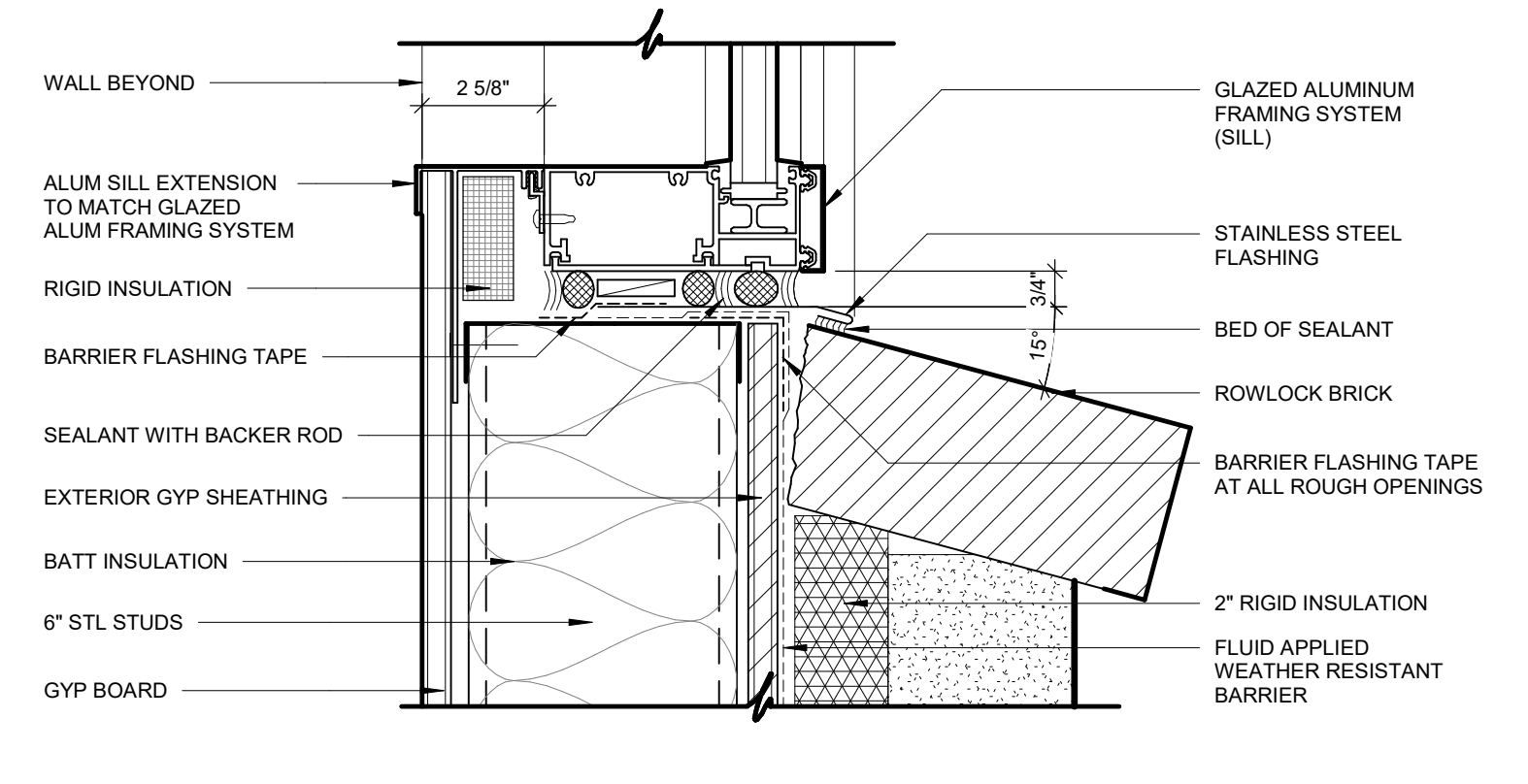
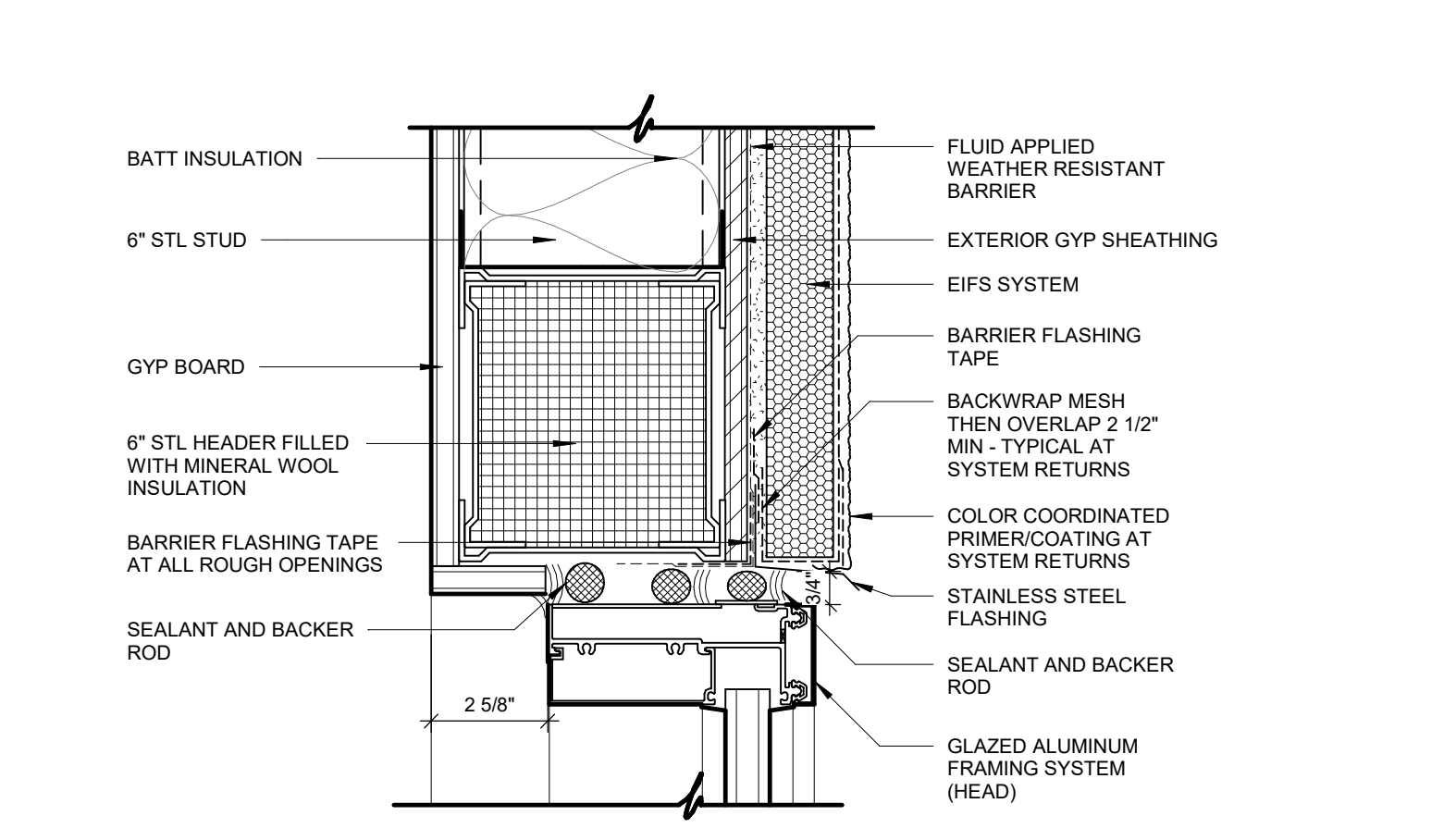
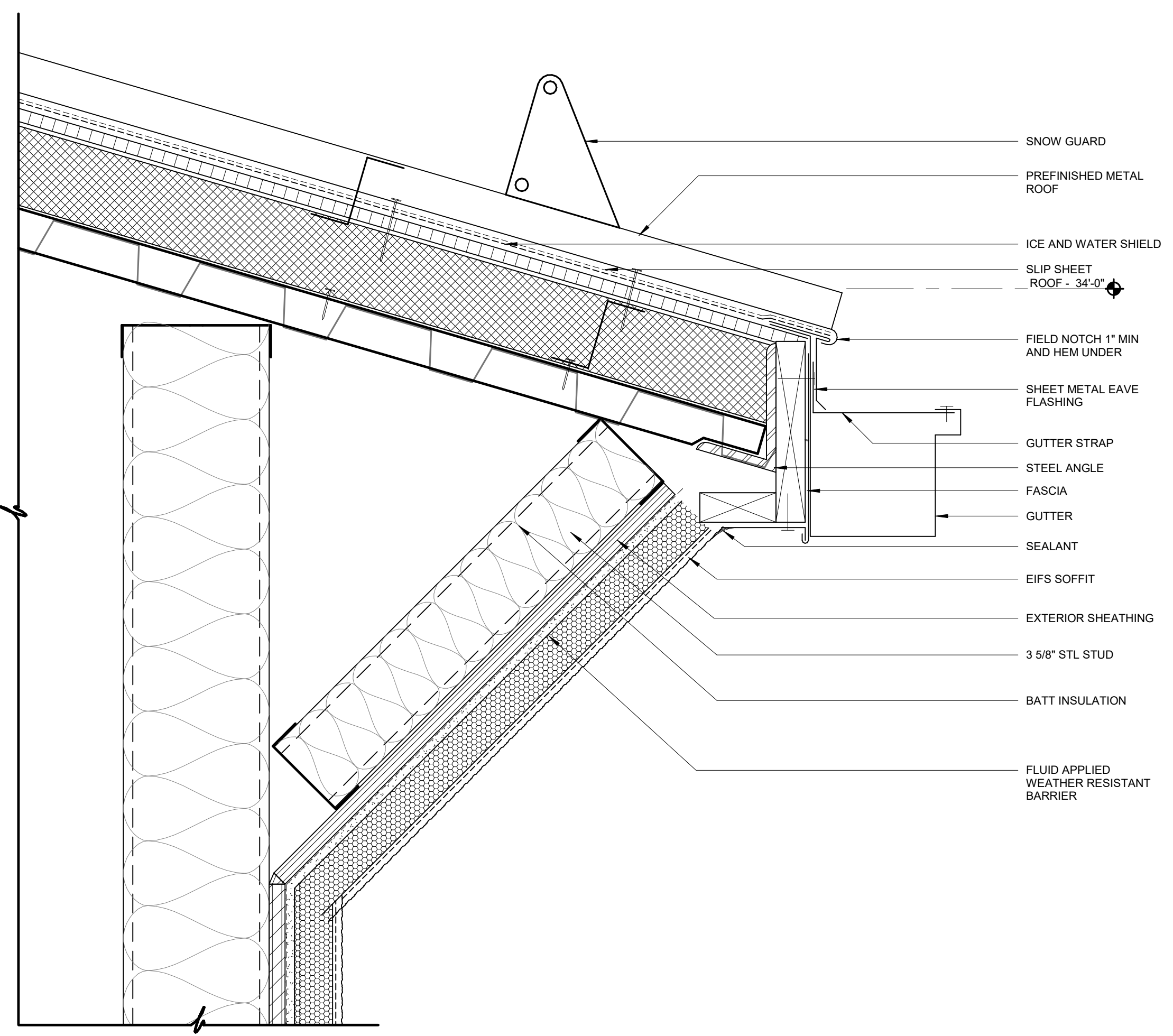
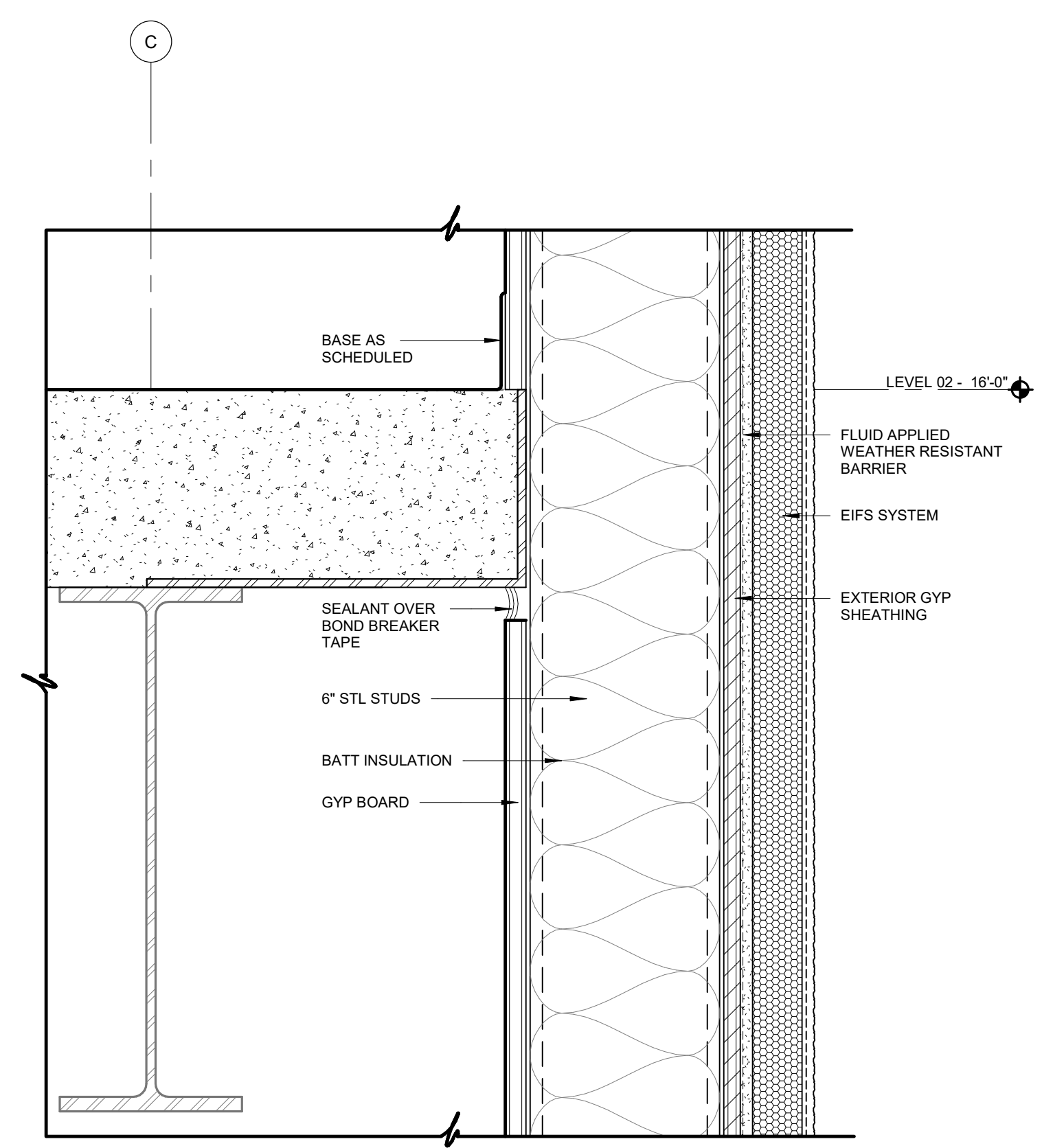
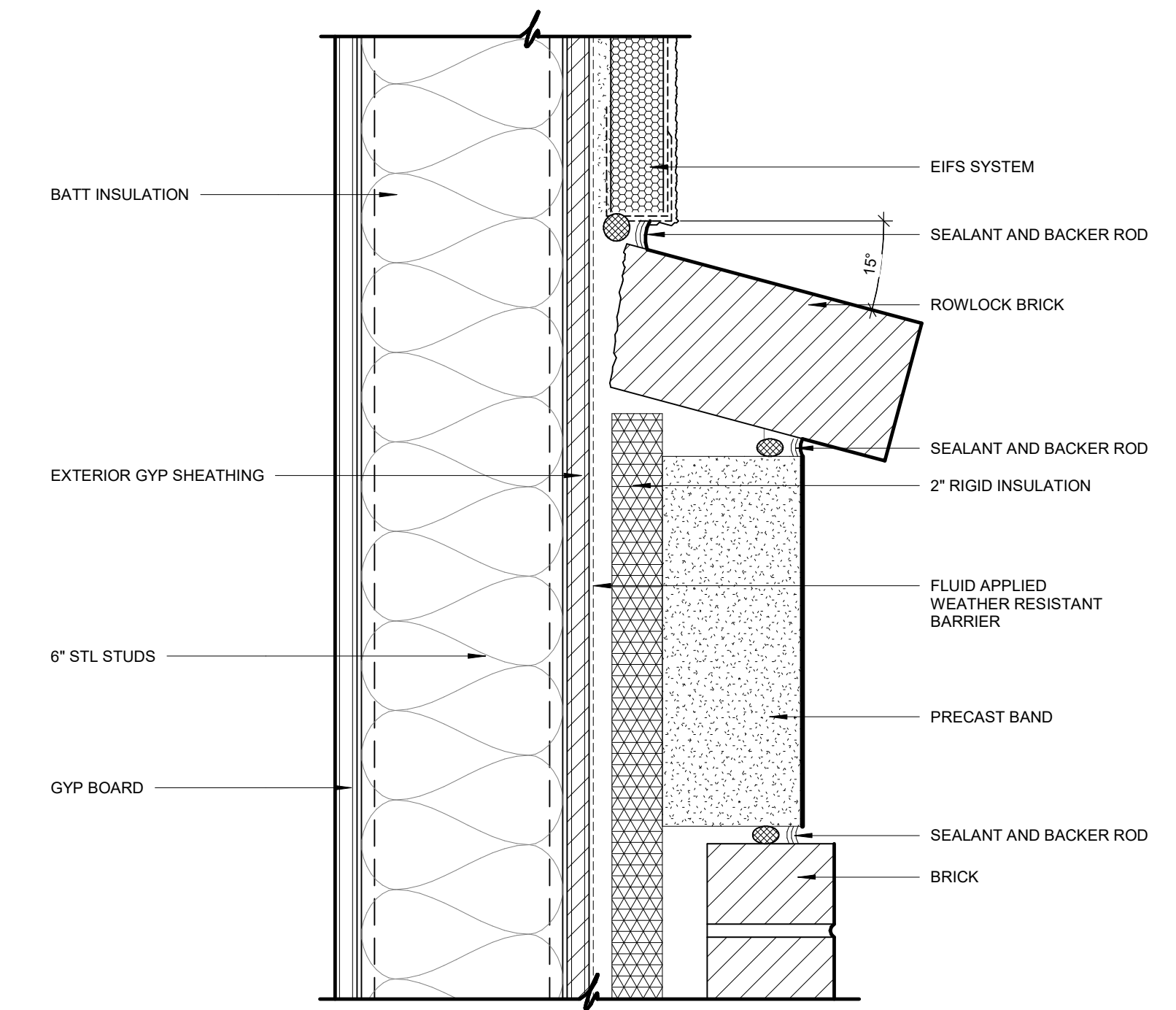


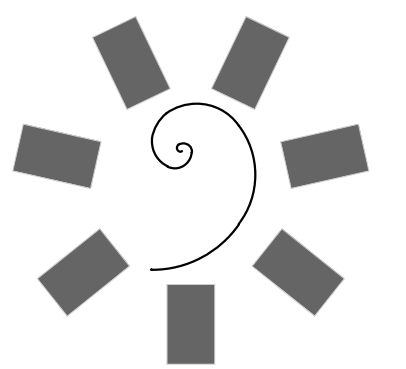
#	DATE	REVISIONS	DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 01	

DATE: 12-06-19 JOB NUMBER: 18-01.01

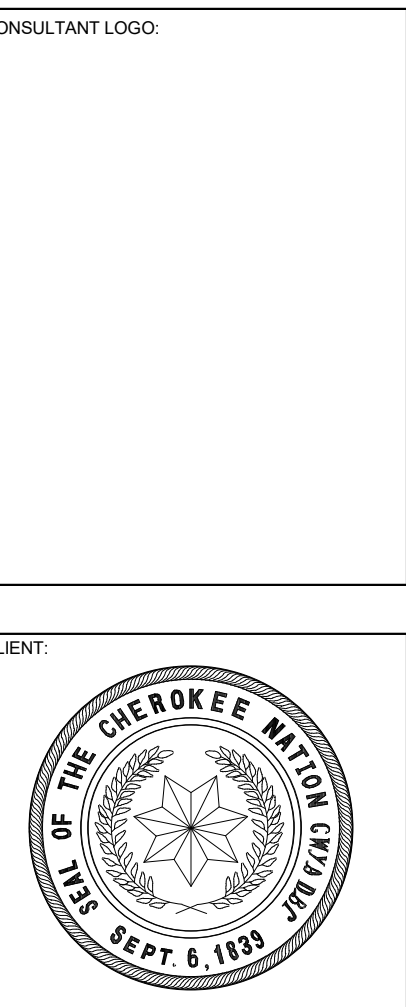
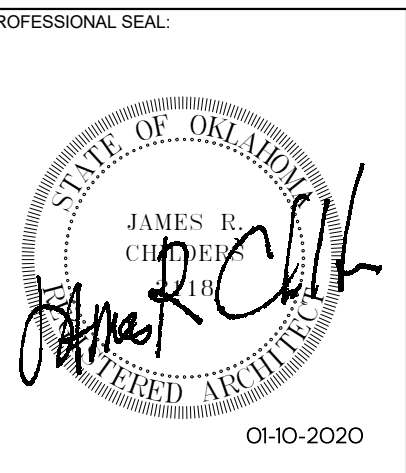
SHEET NUMBER: A5.01

WALL SECTION DETAILS





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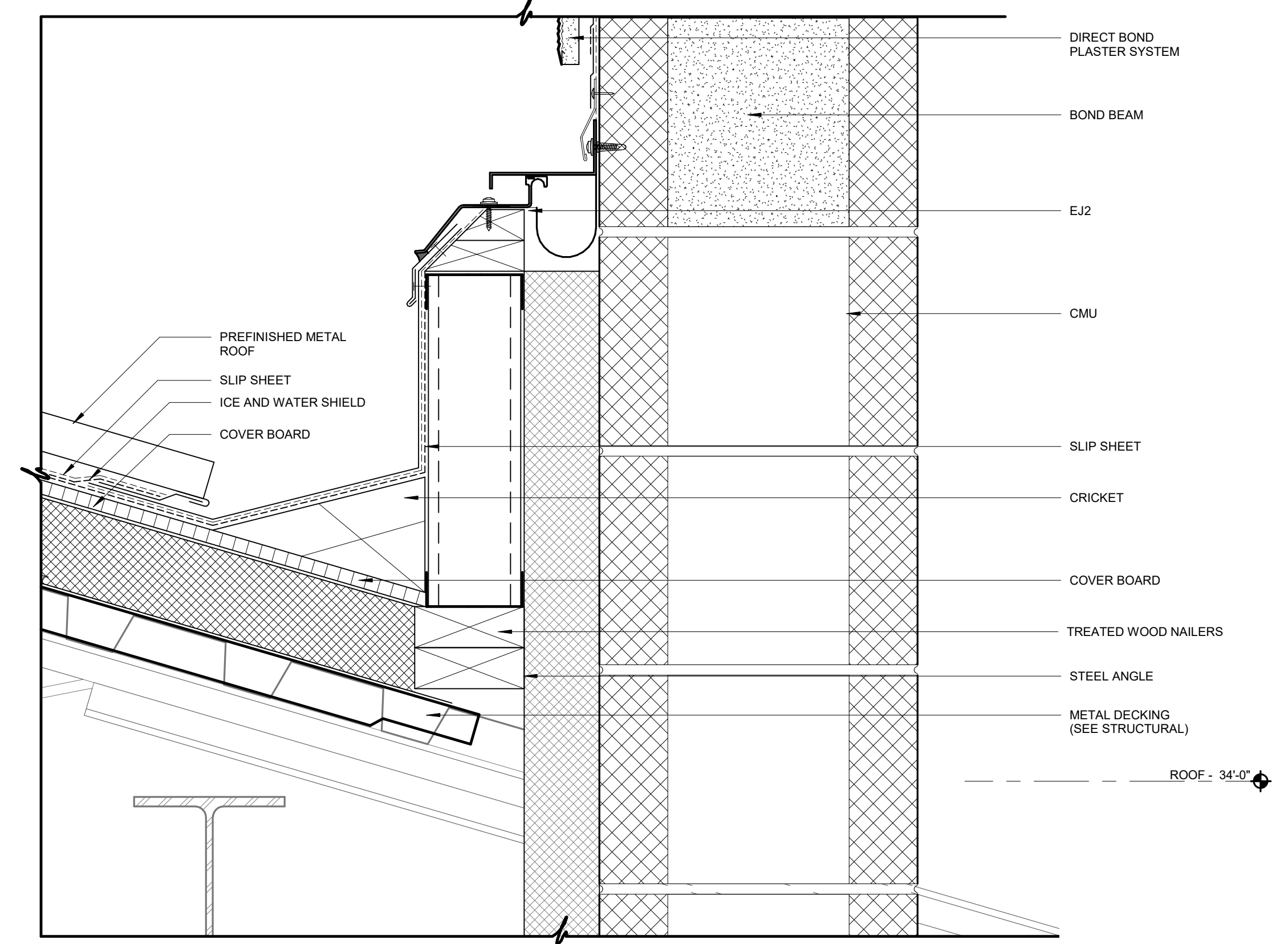
PROJECT PHASE:
BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
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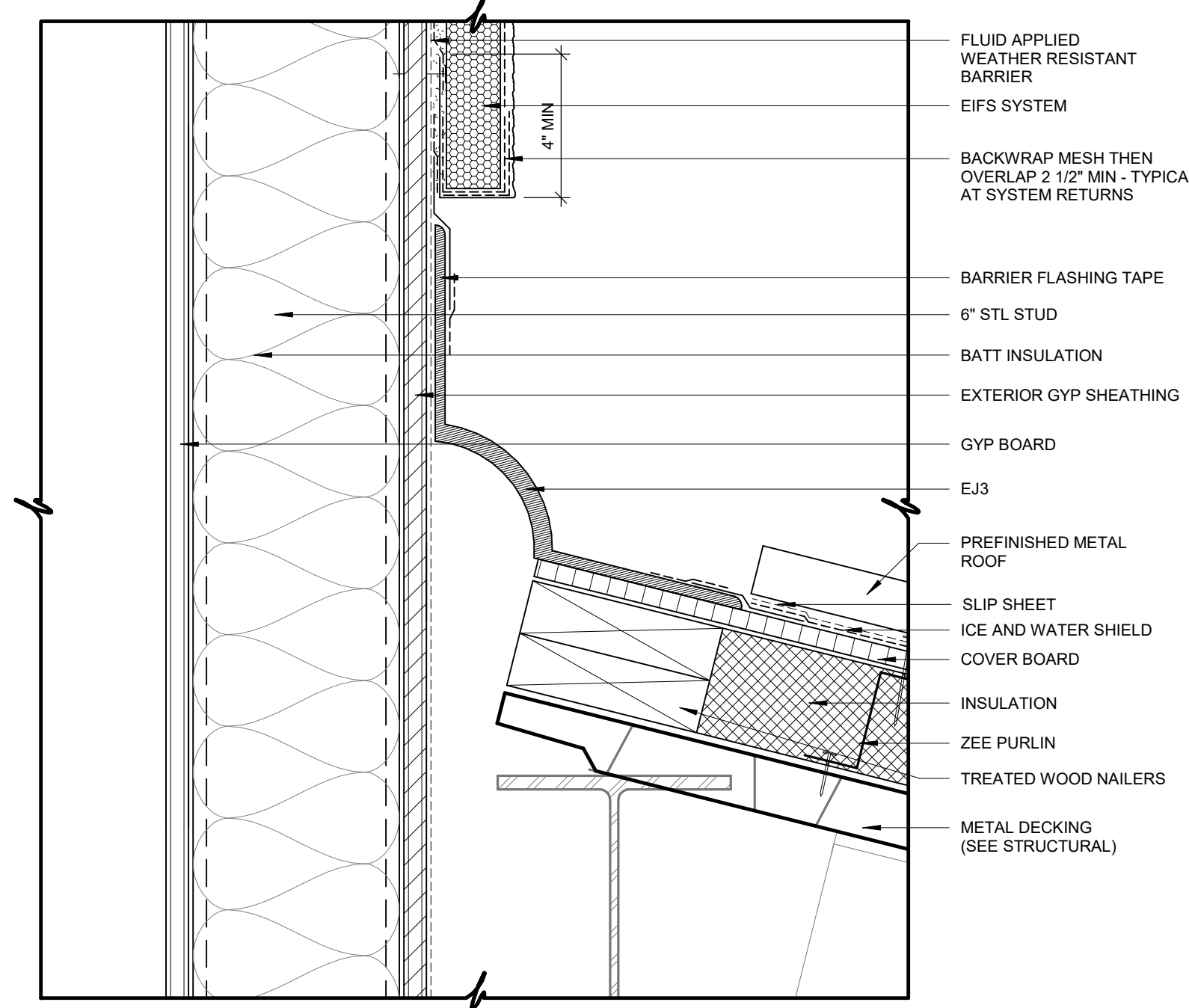
DATE: 12-06-19 JOB NUMBER: 18-01.01

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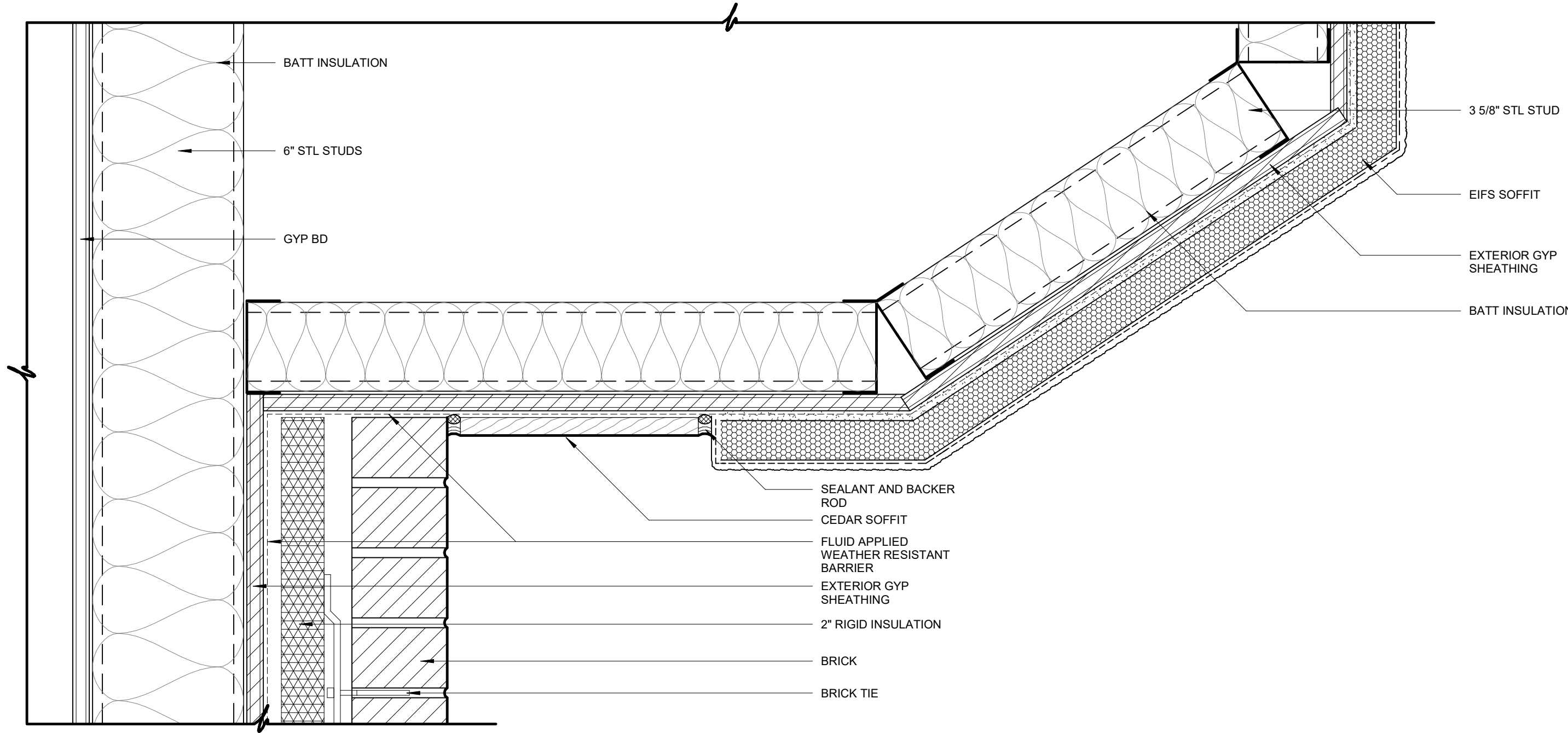
WALL SECTION DETAILS



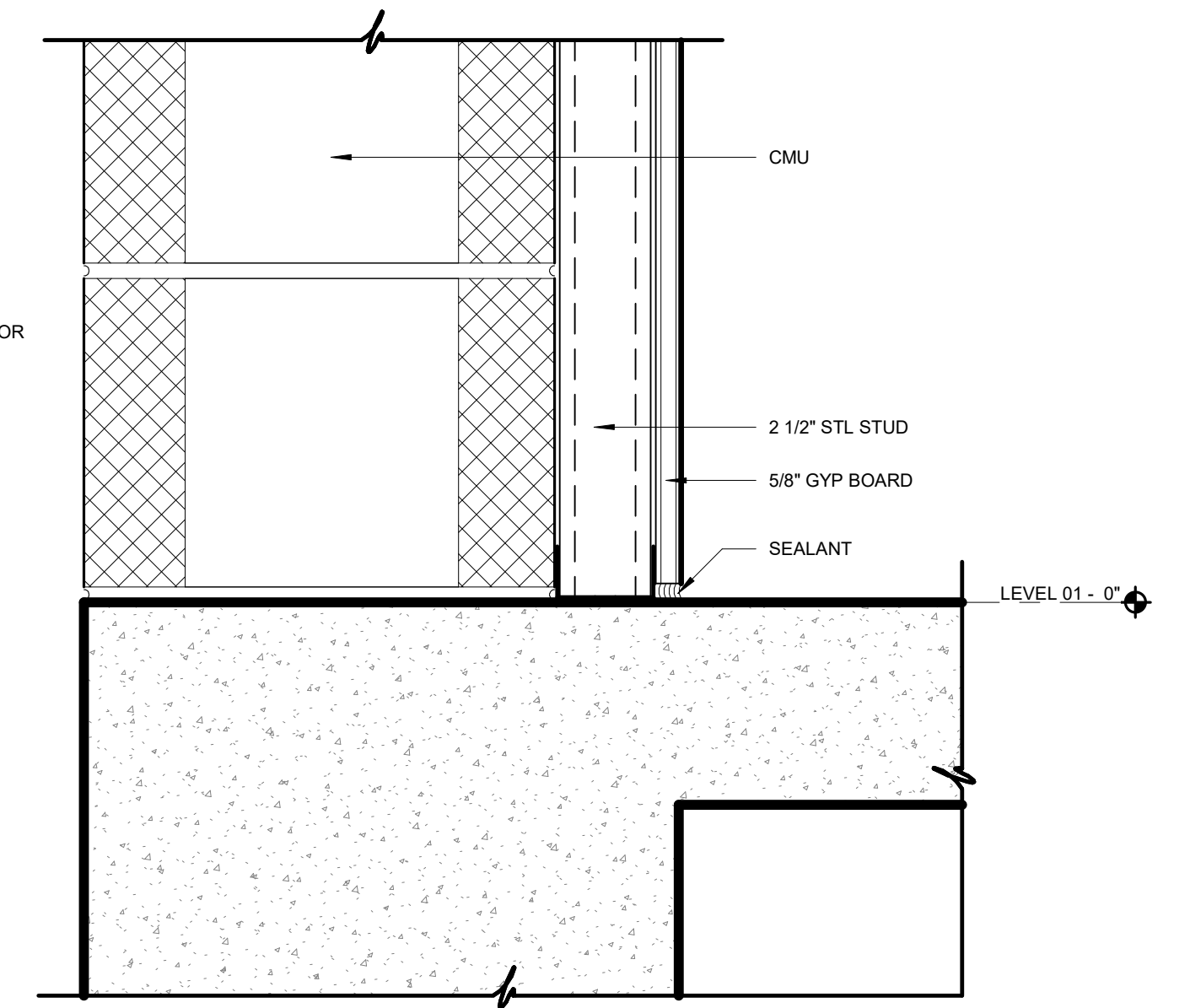
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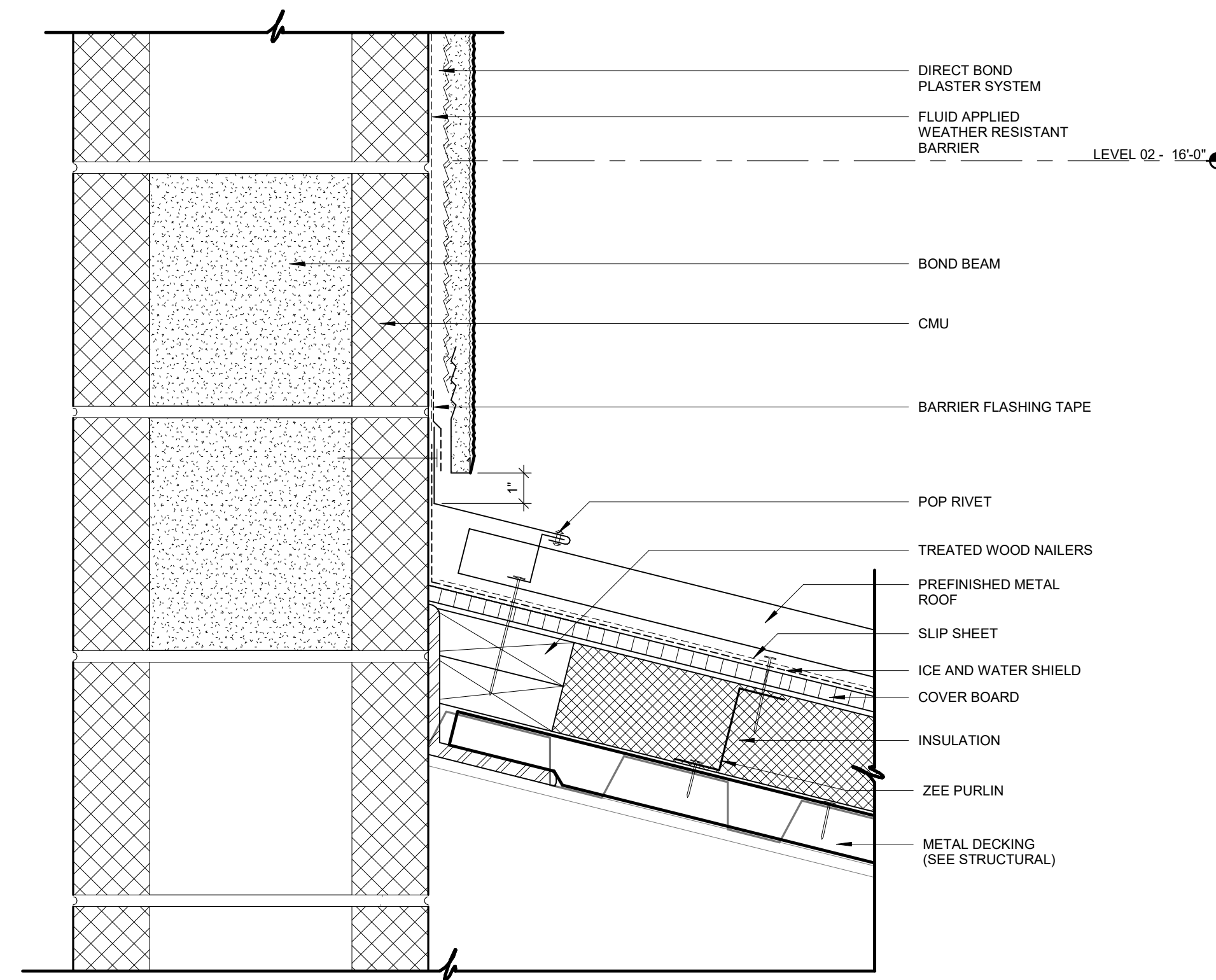
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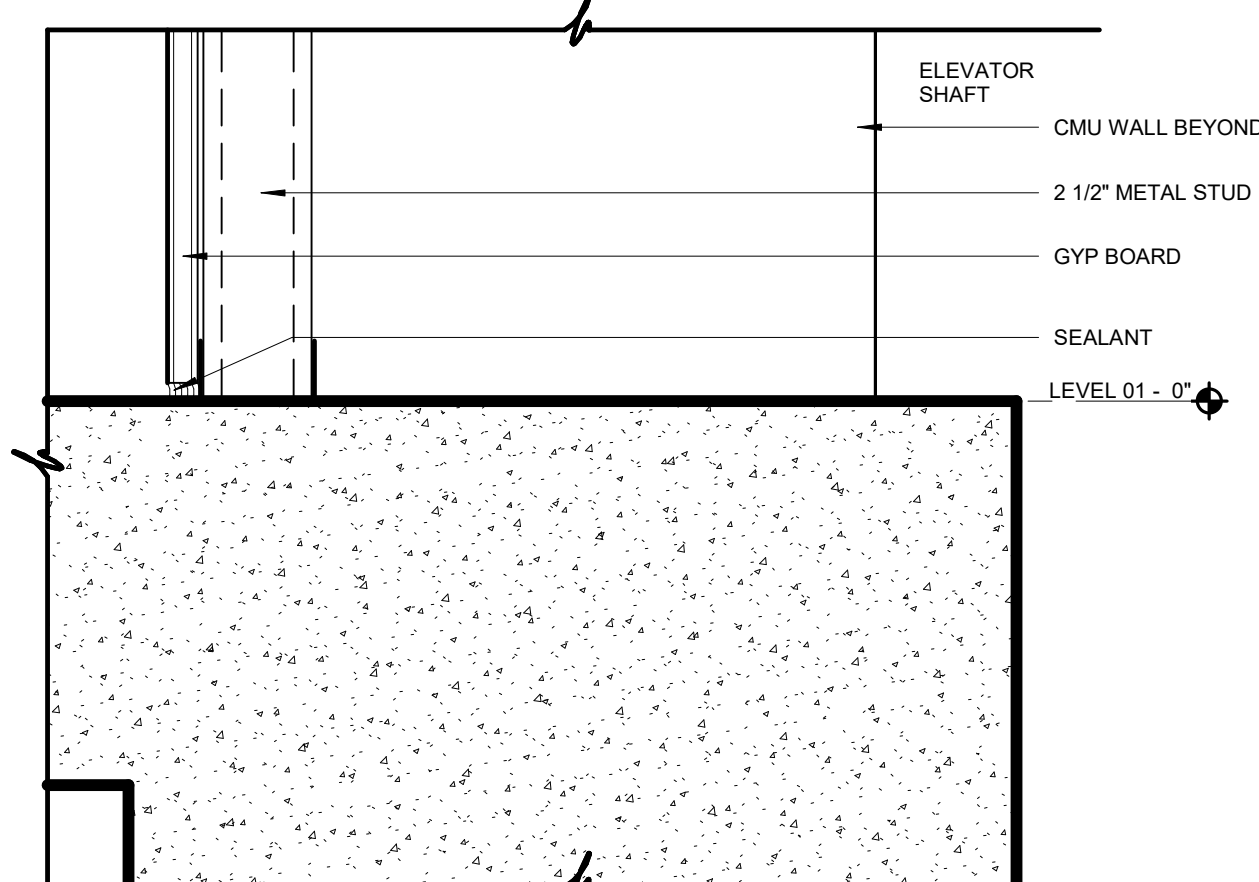
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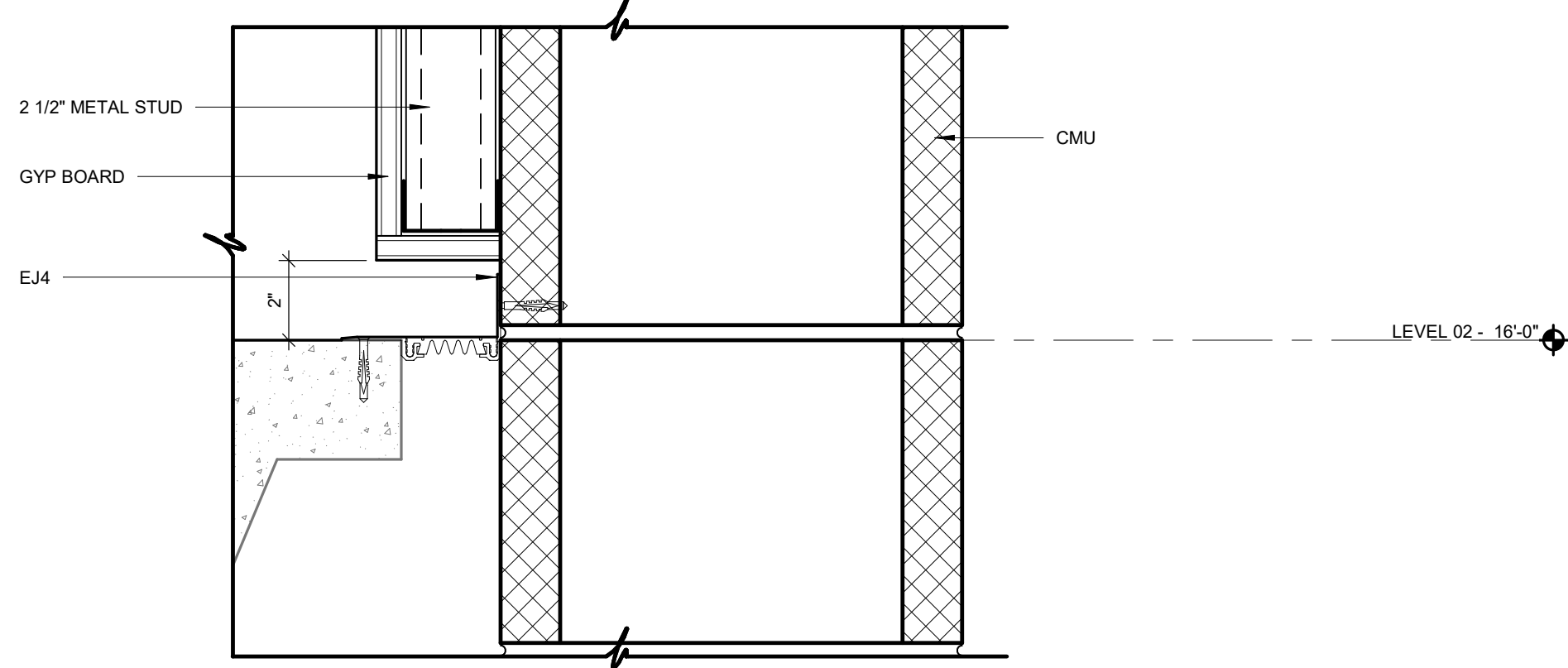
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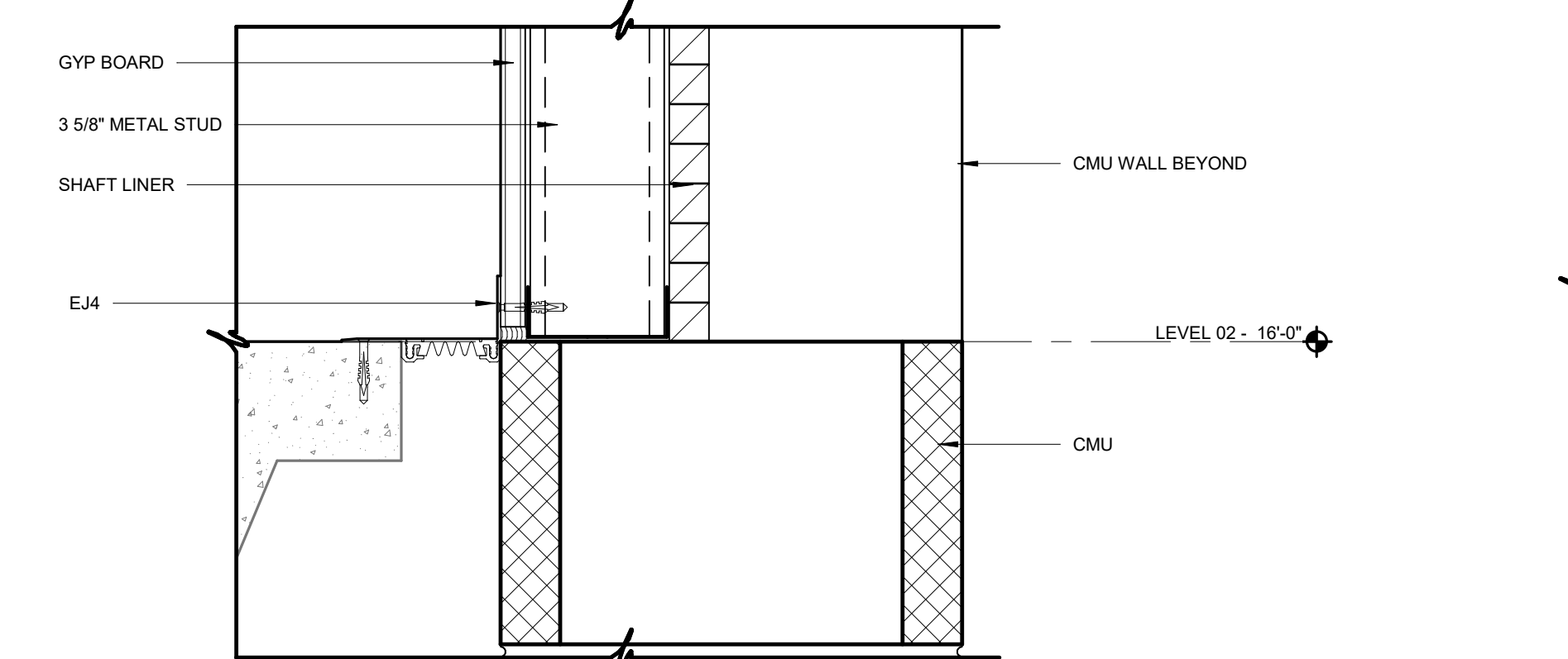
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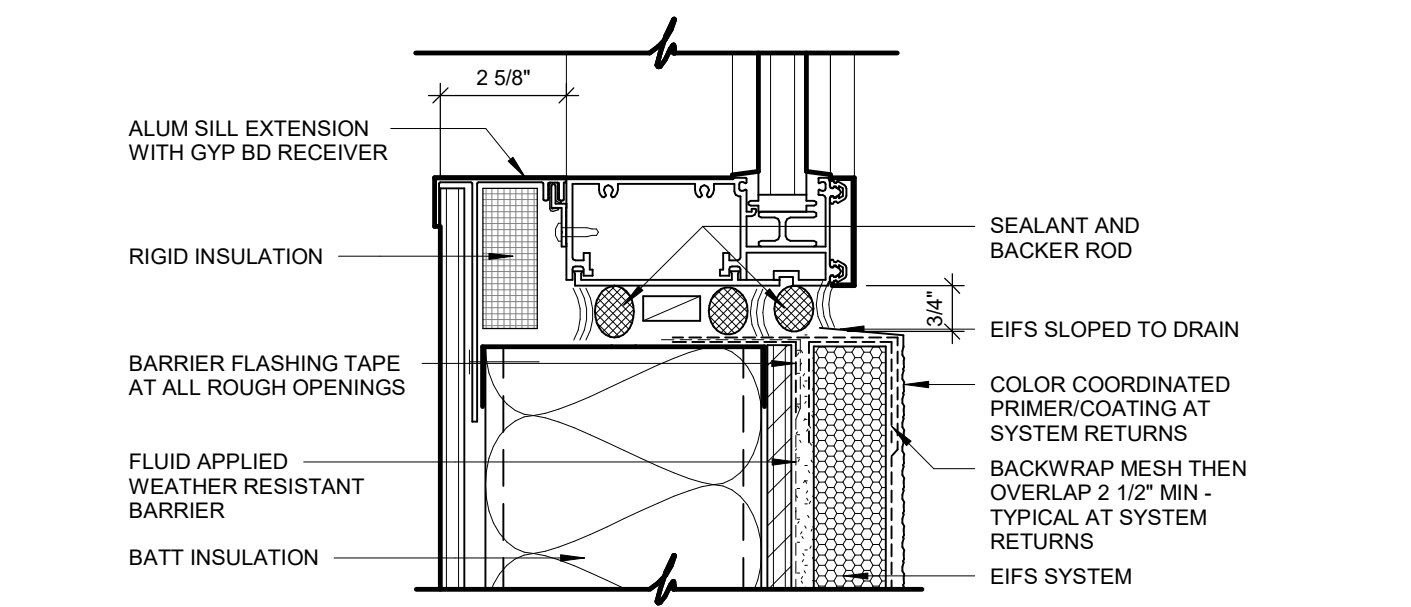
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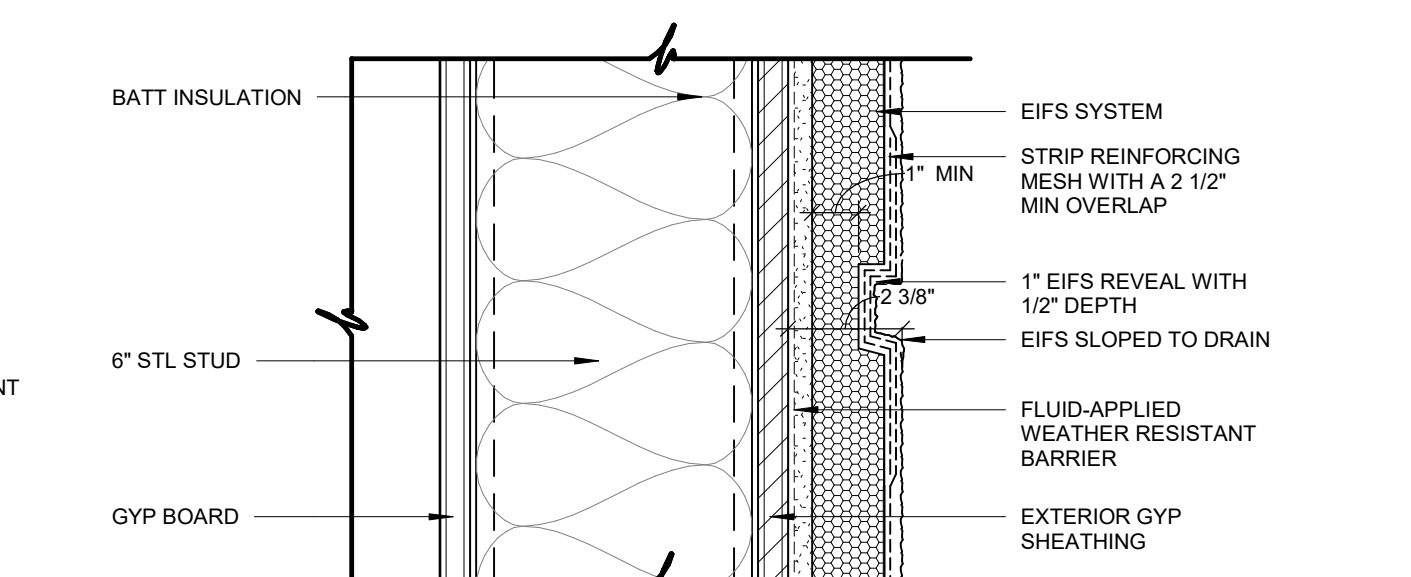
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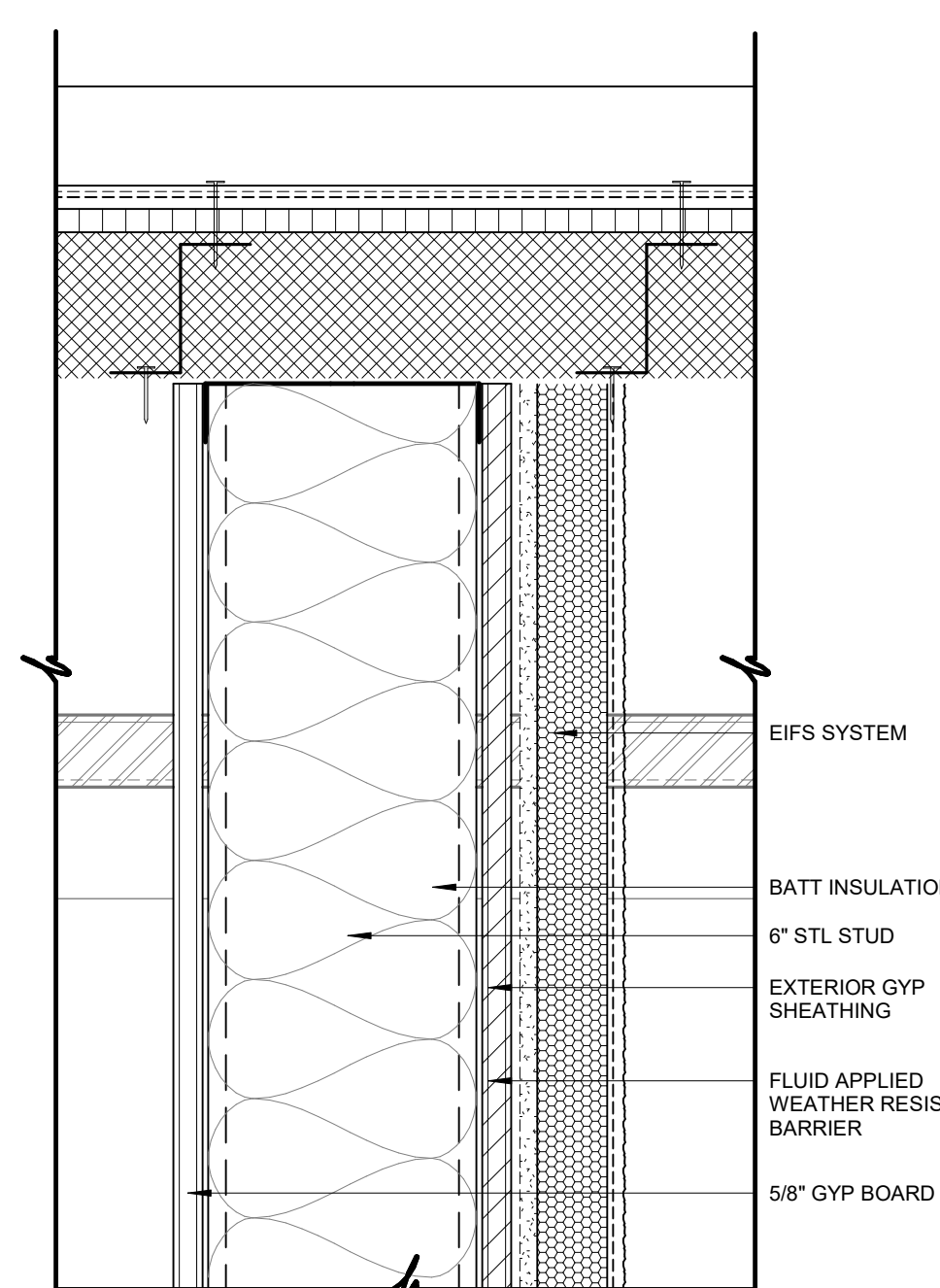
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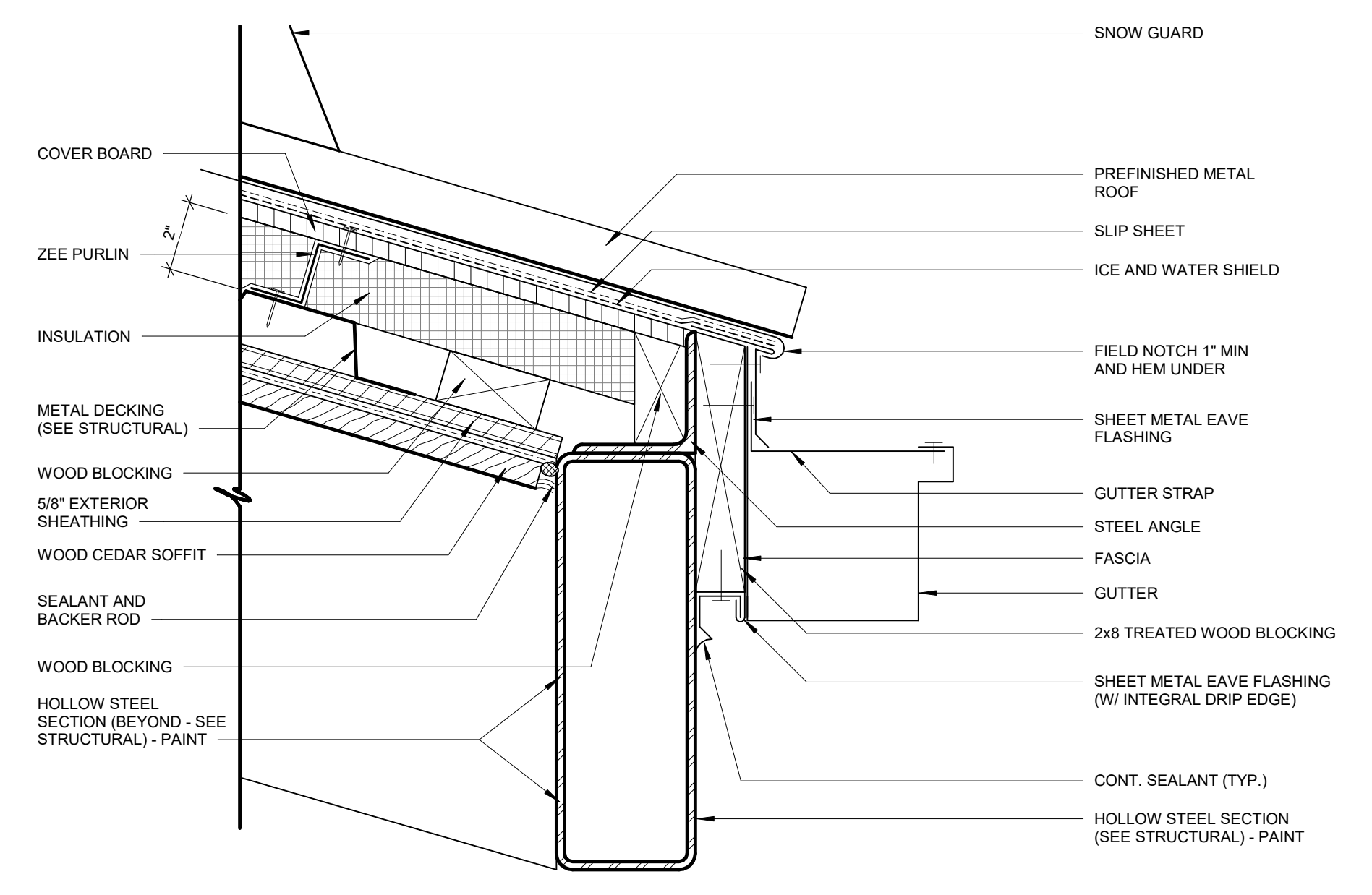
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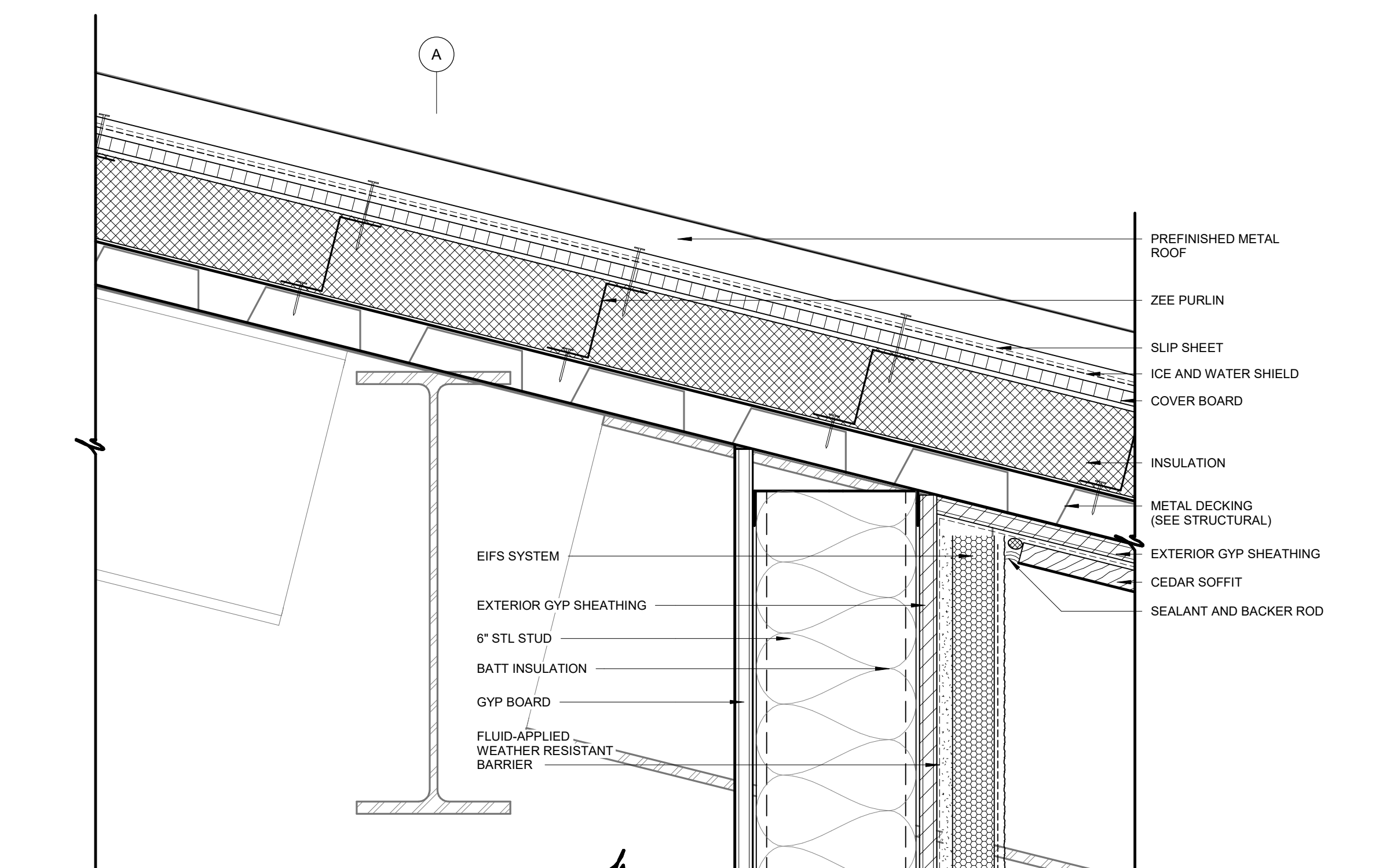
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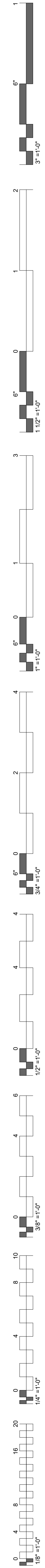
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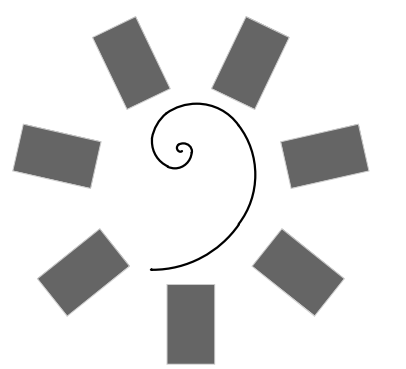


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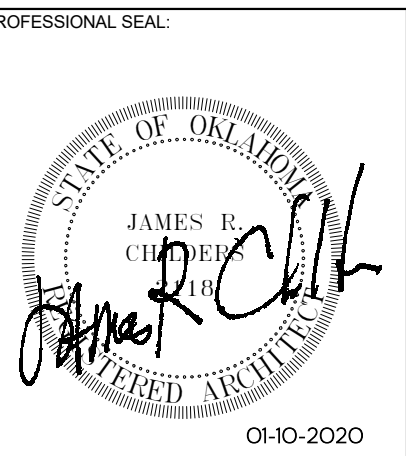


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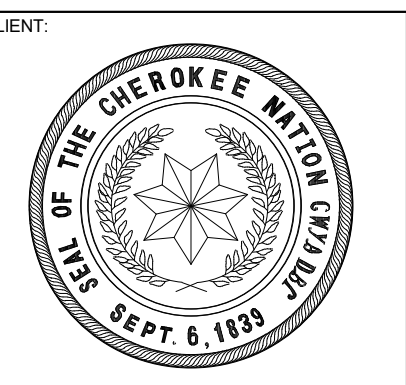




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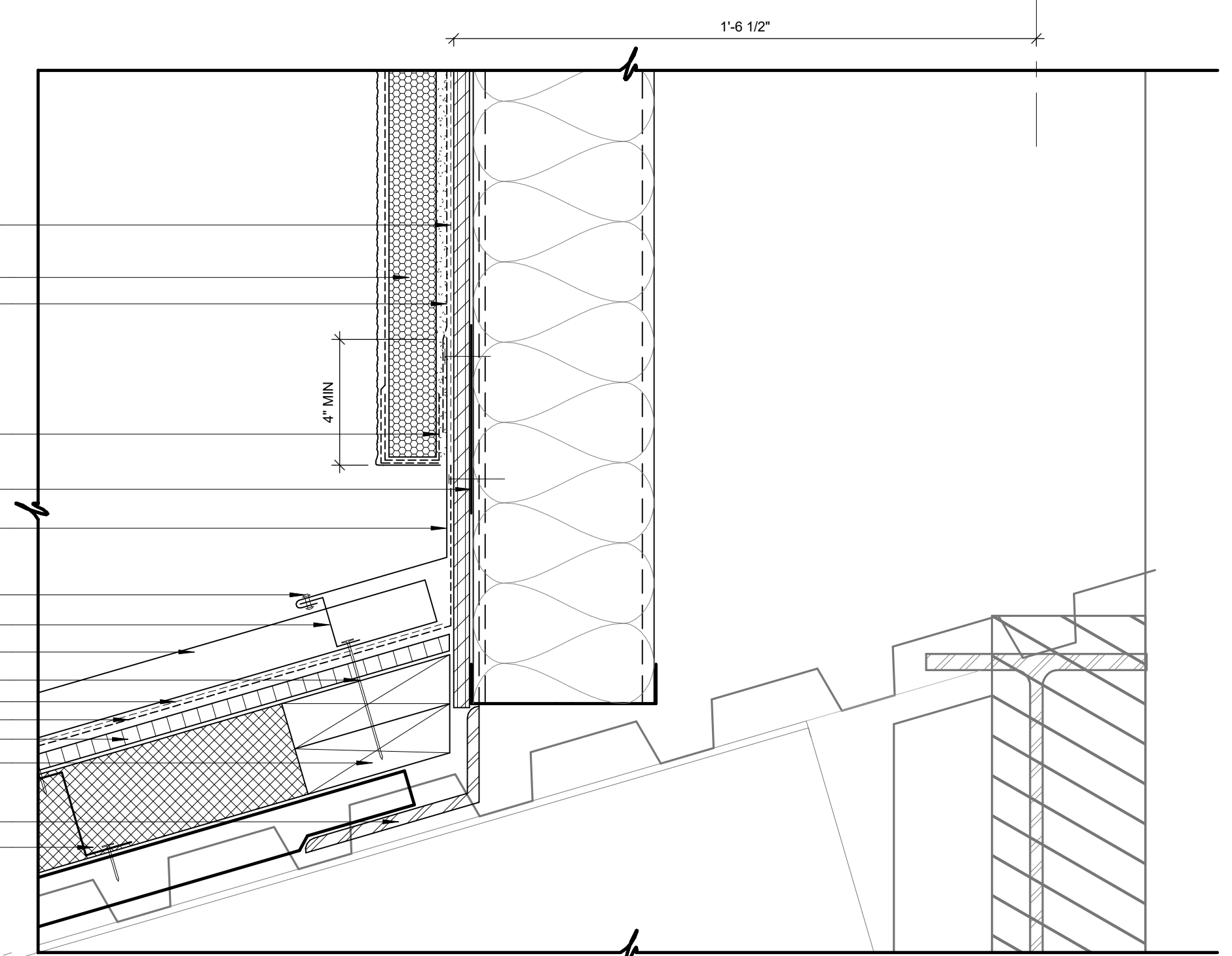
PROJECT PHASE
BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
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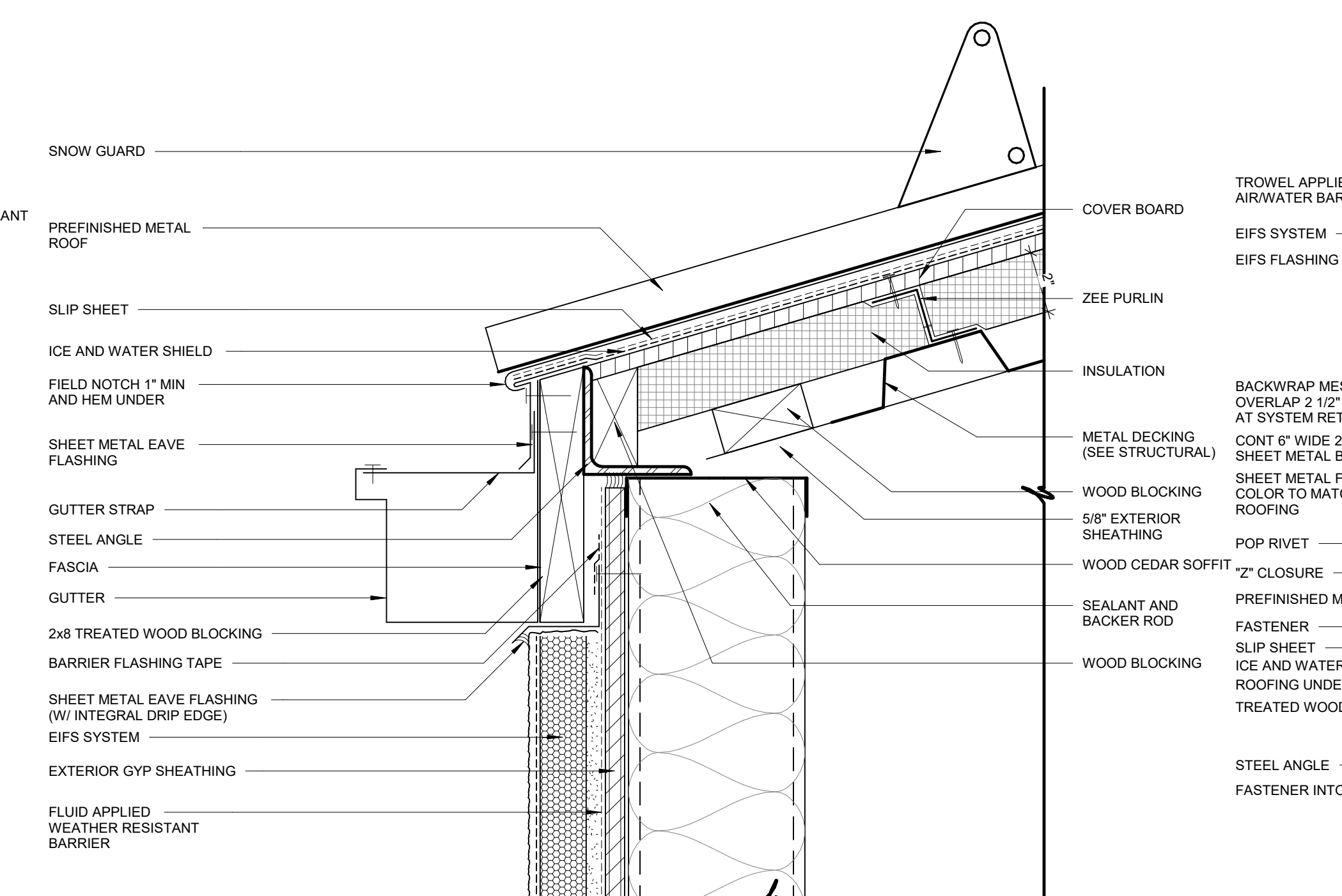
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SHEET NUMBER: A5.03

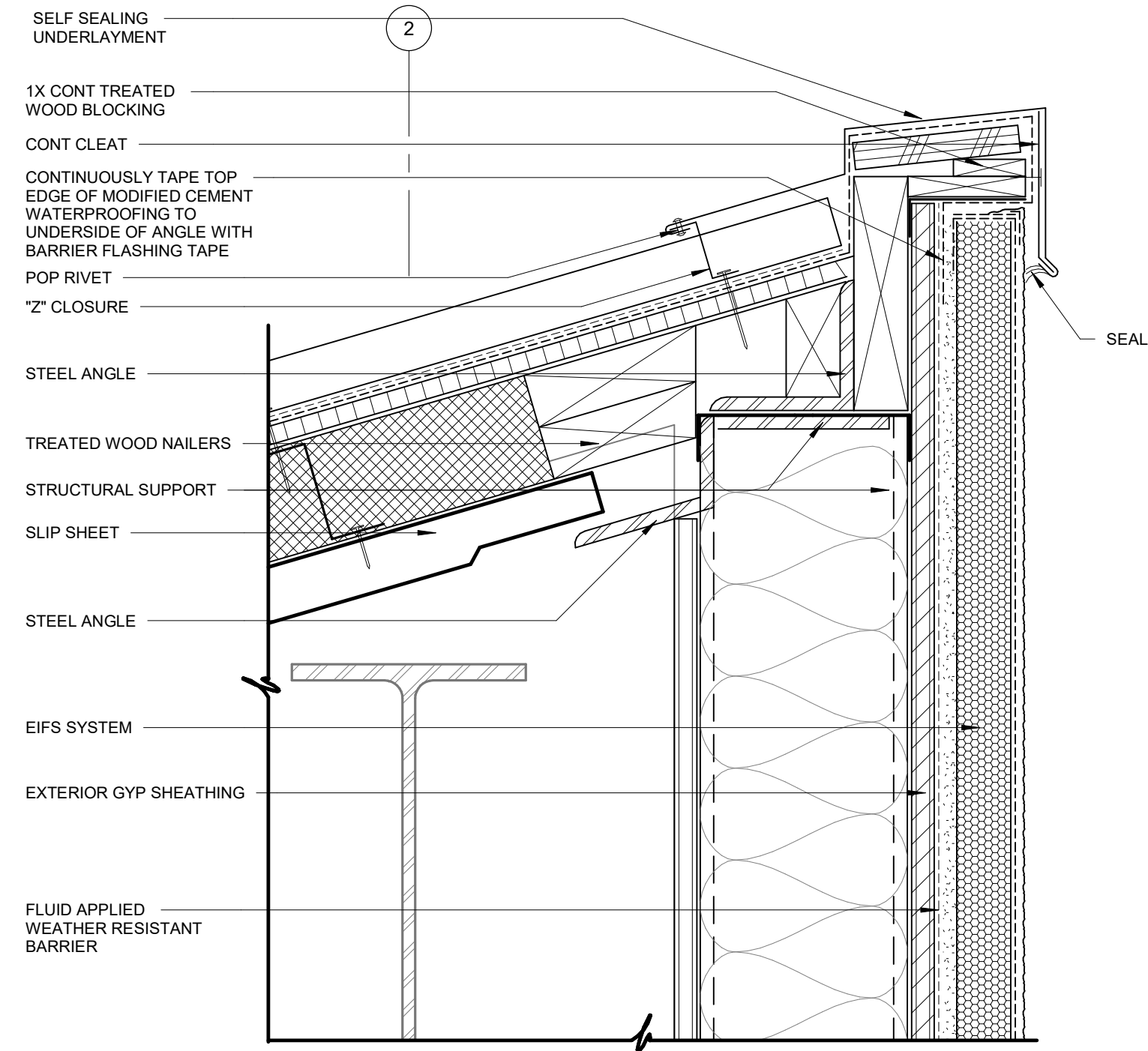
WALL SECTION DETAILS



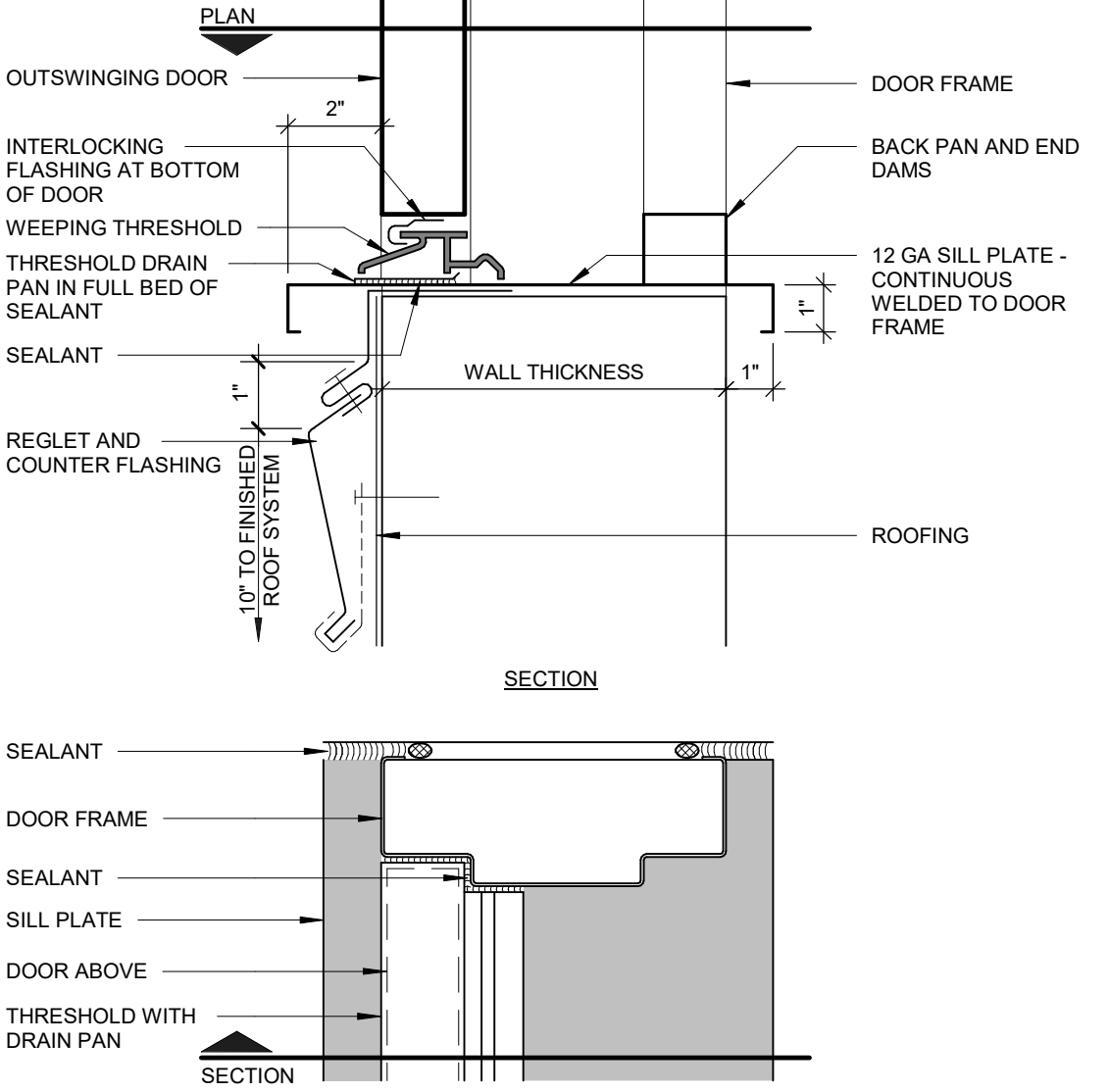
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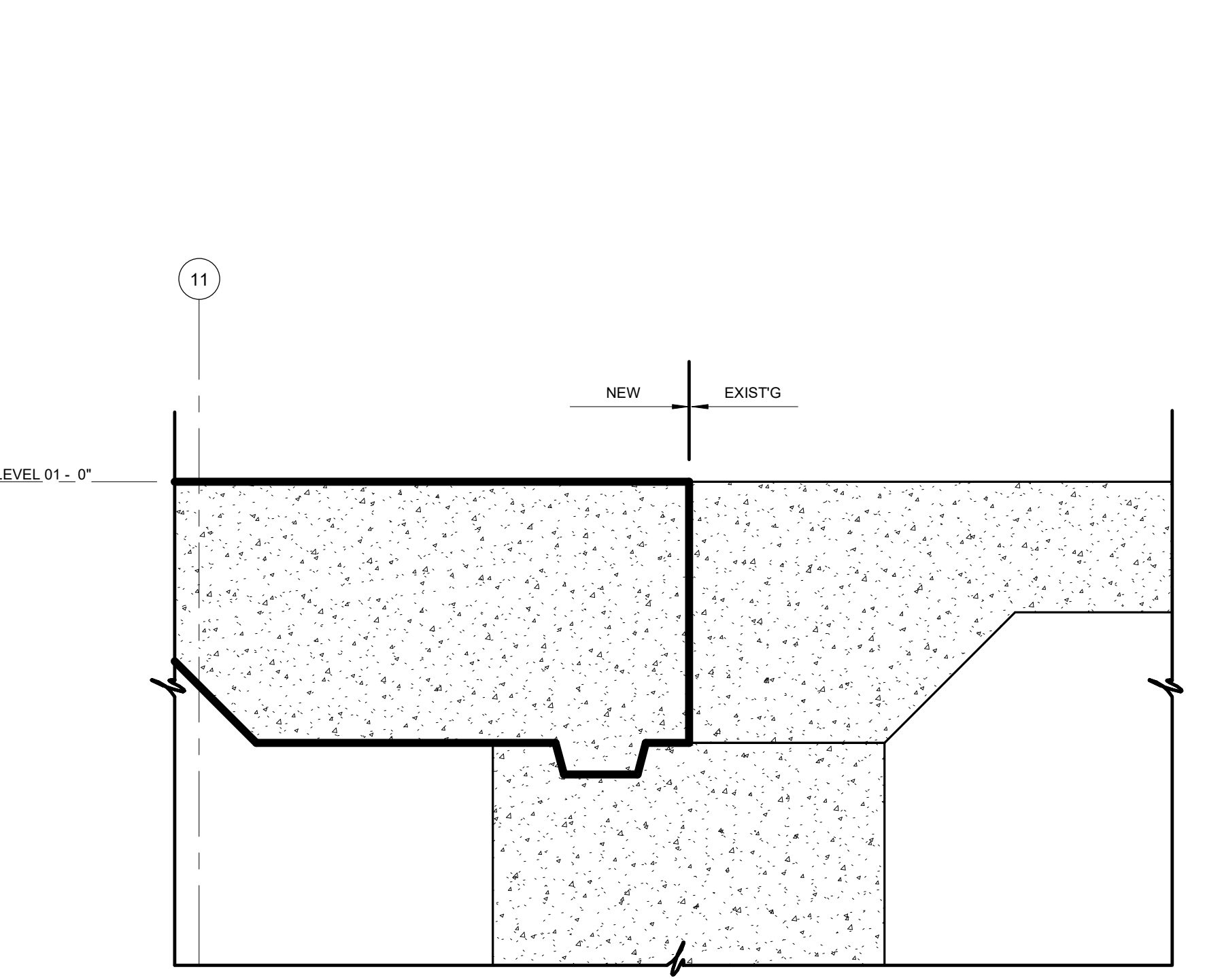
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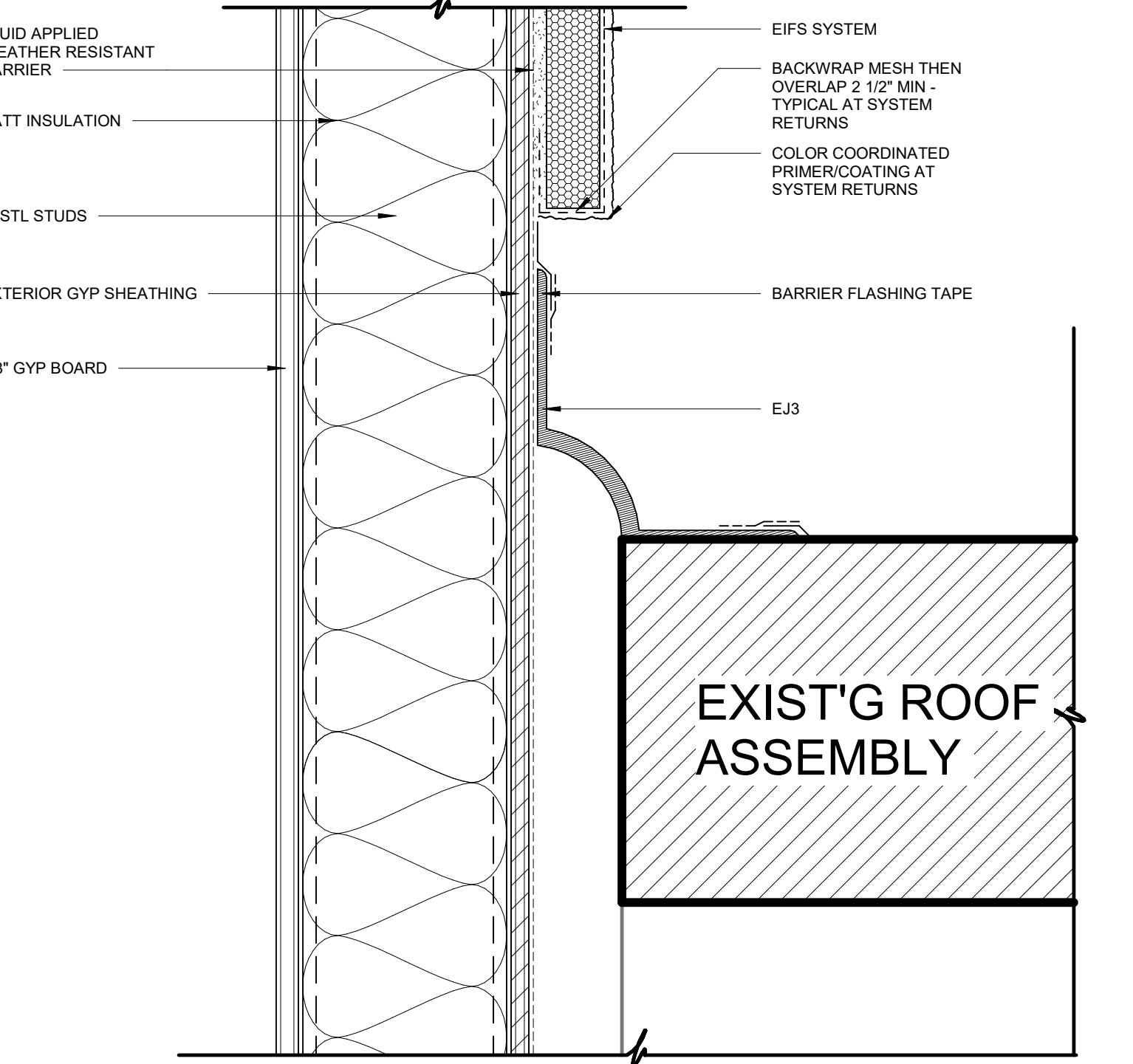
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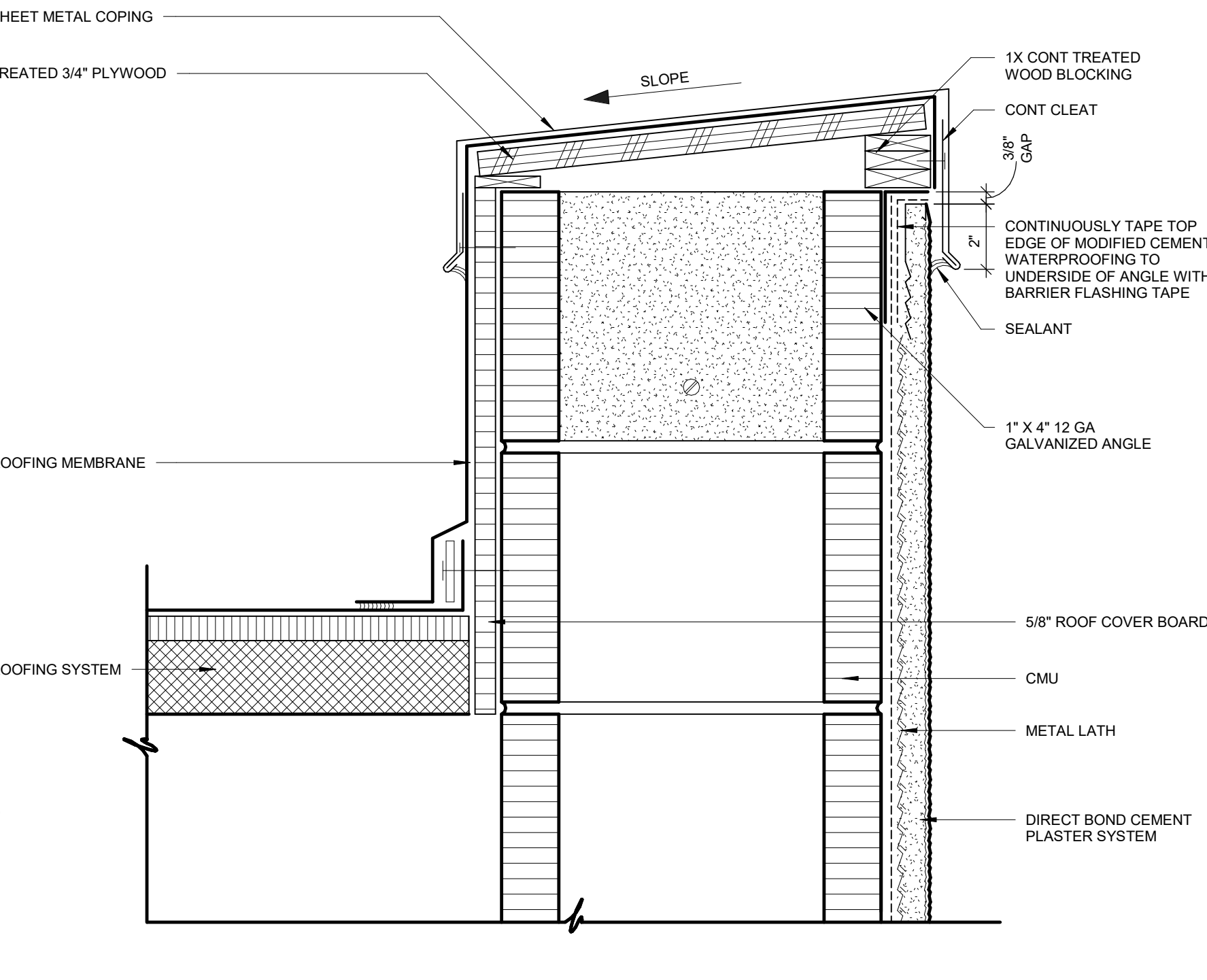
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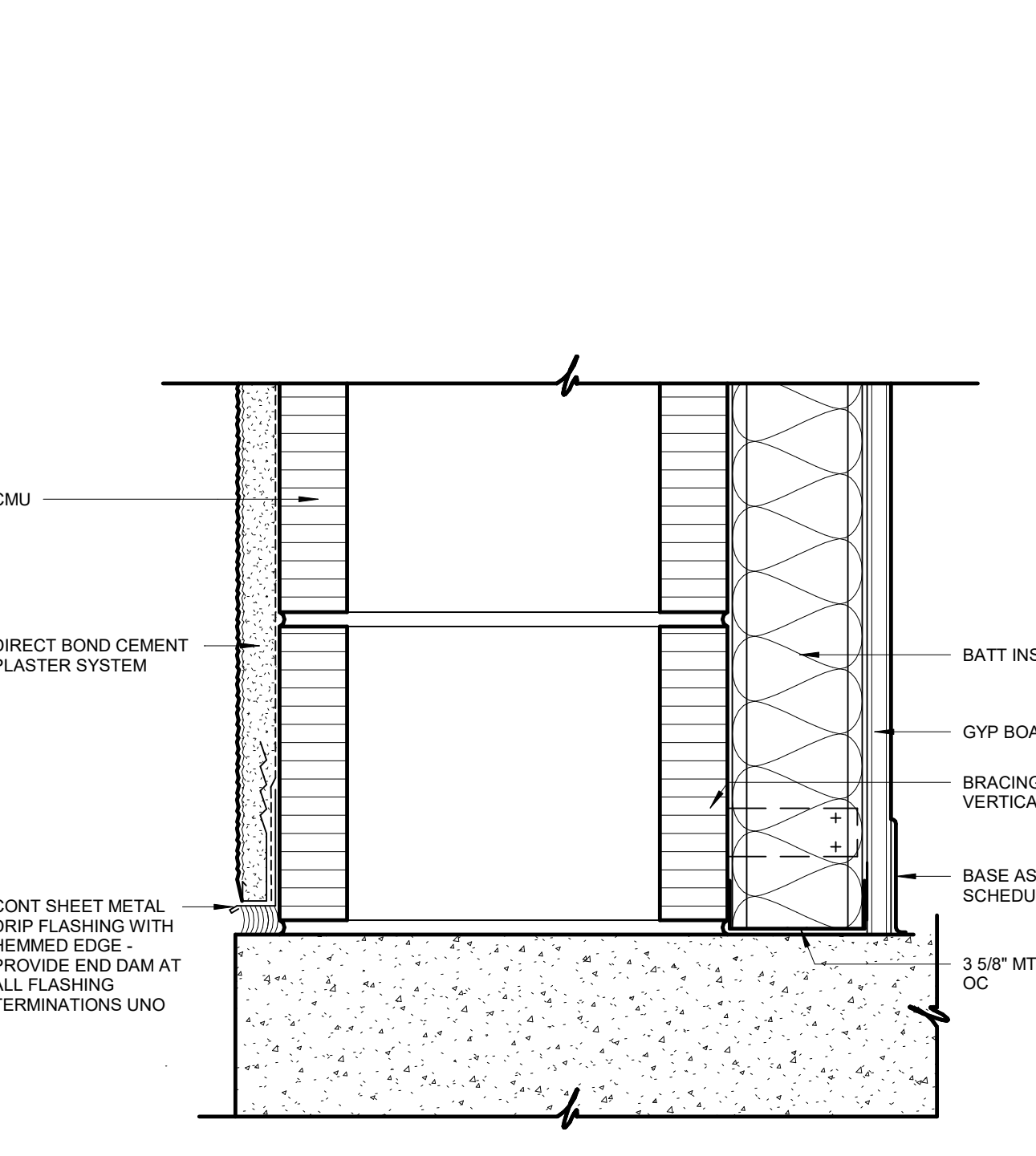
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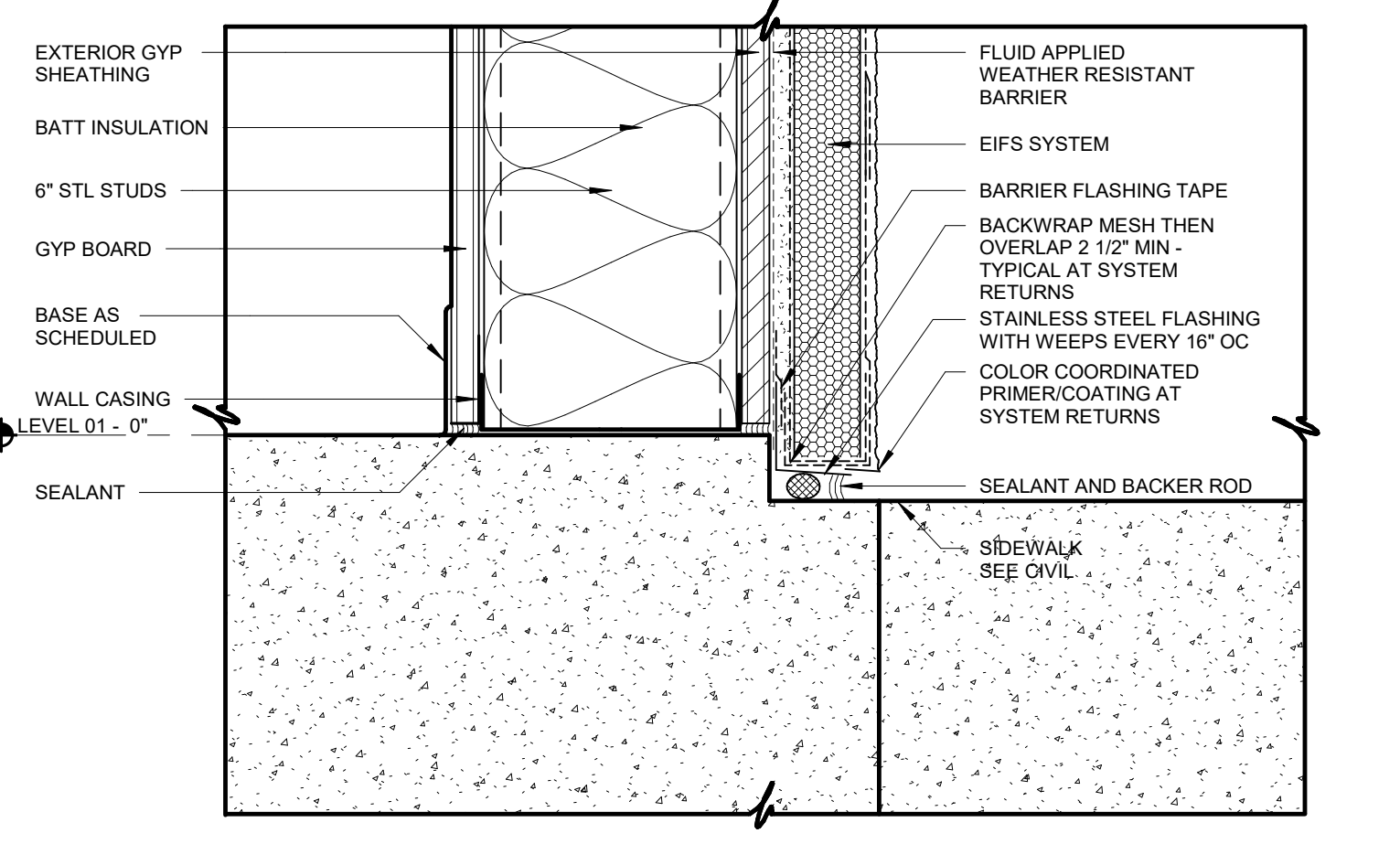
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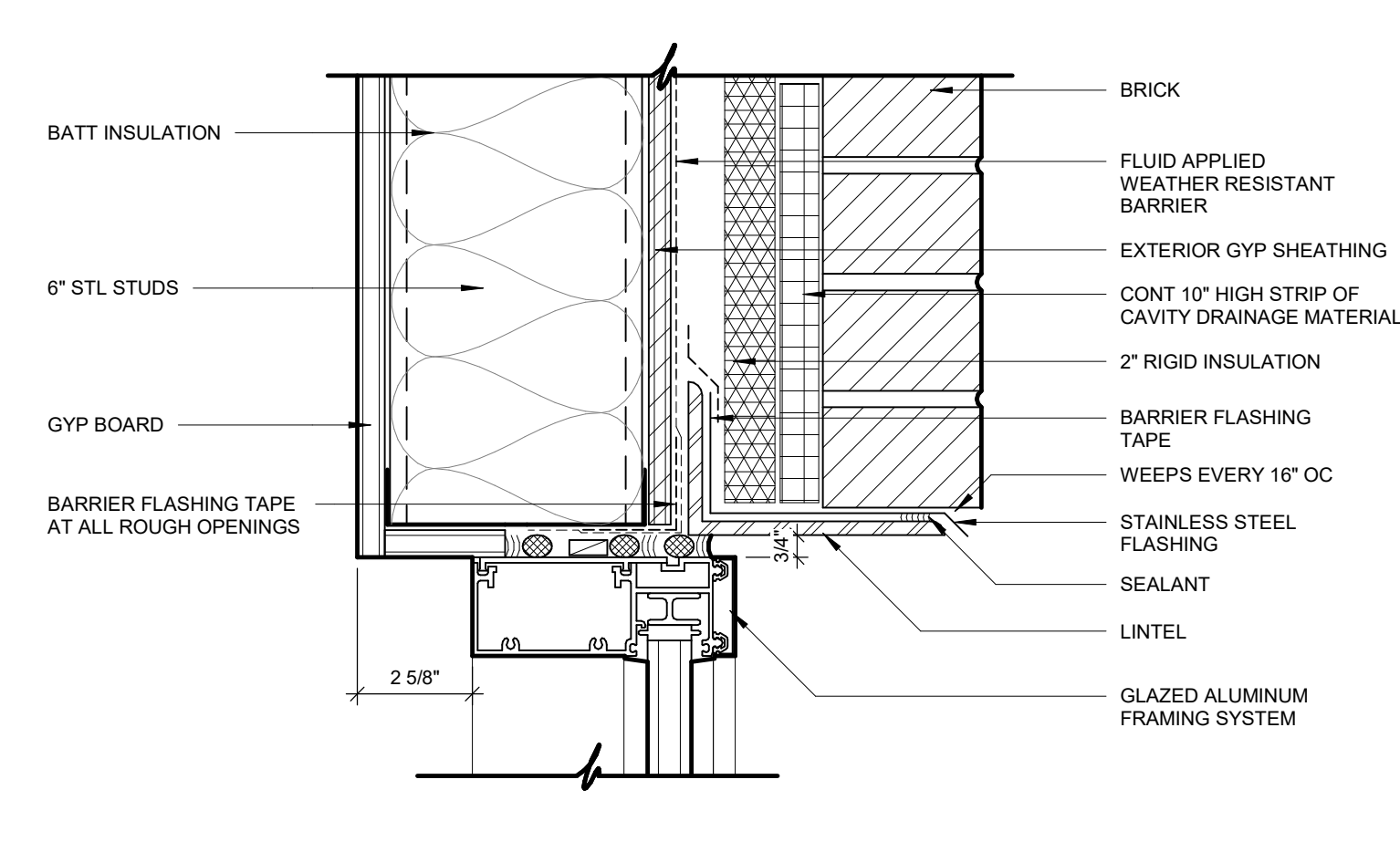
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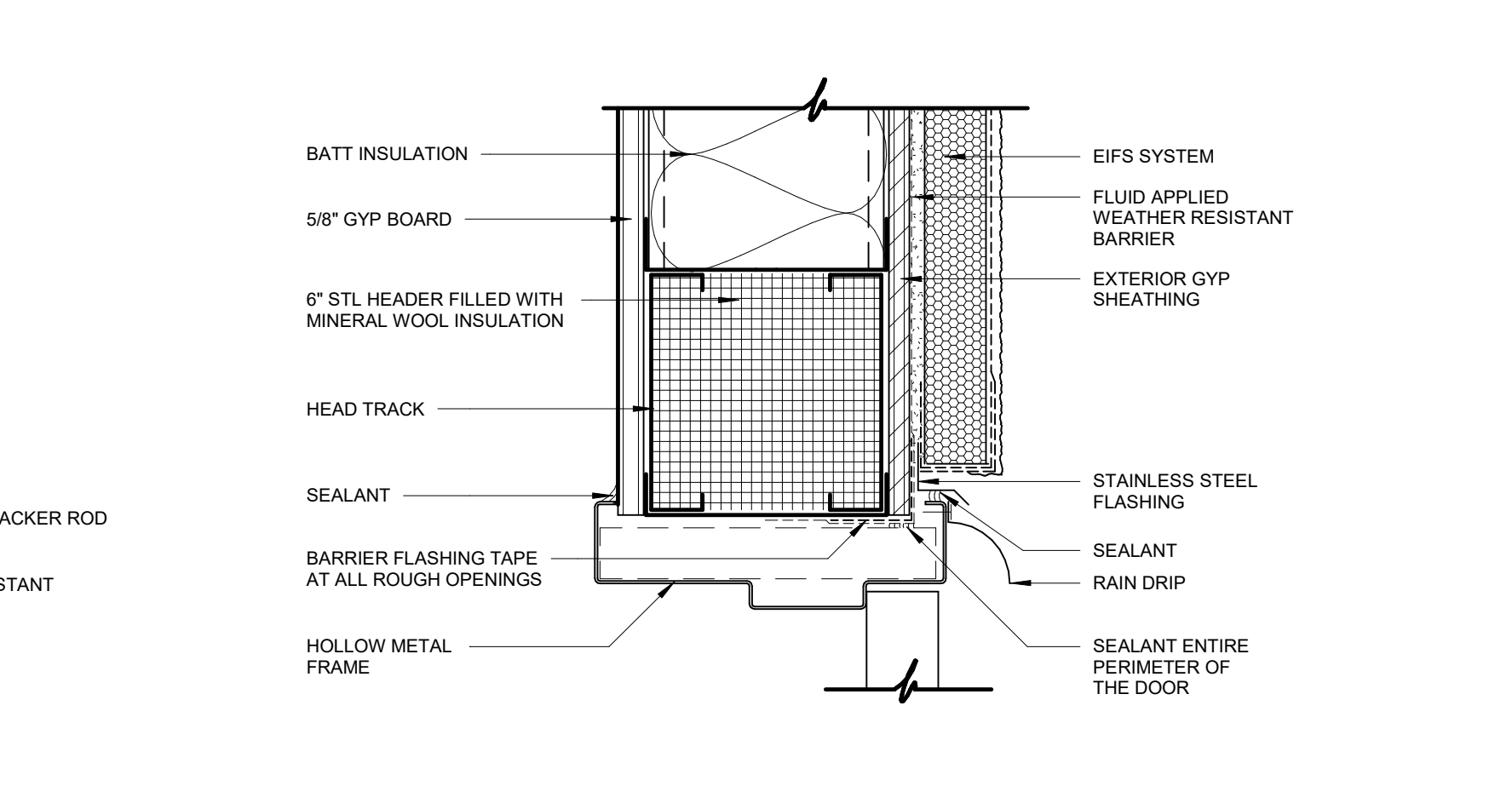
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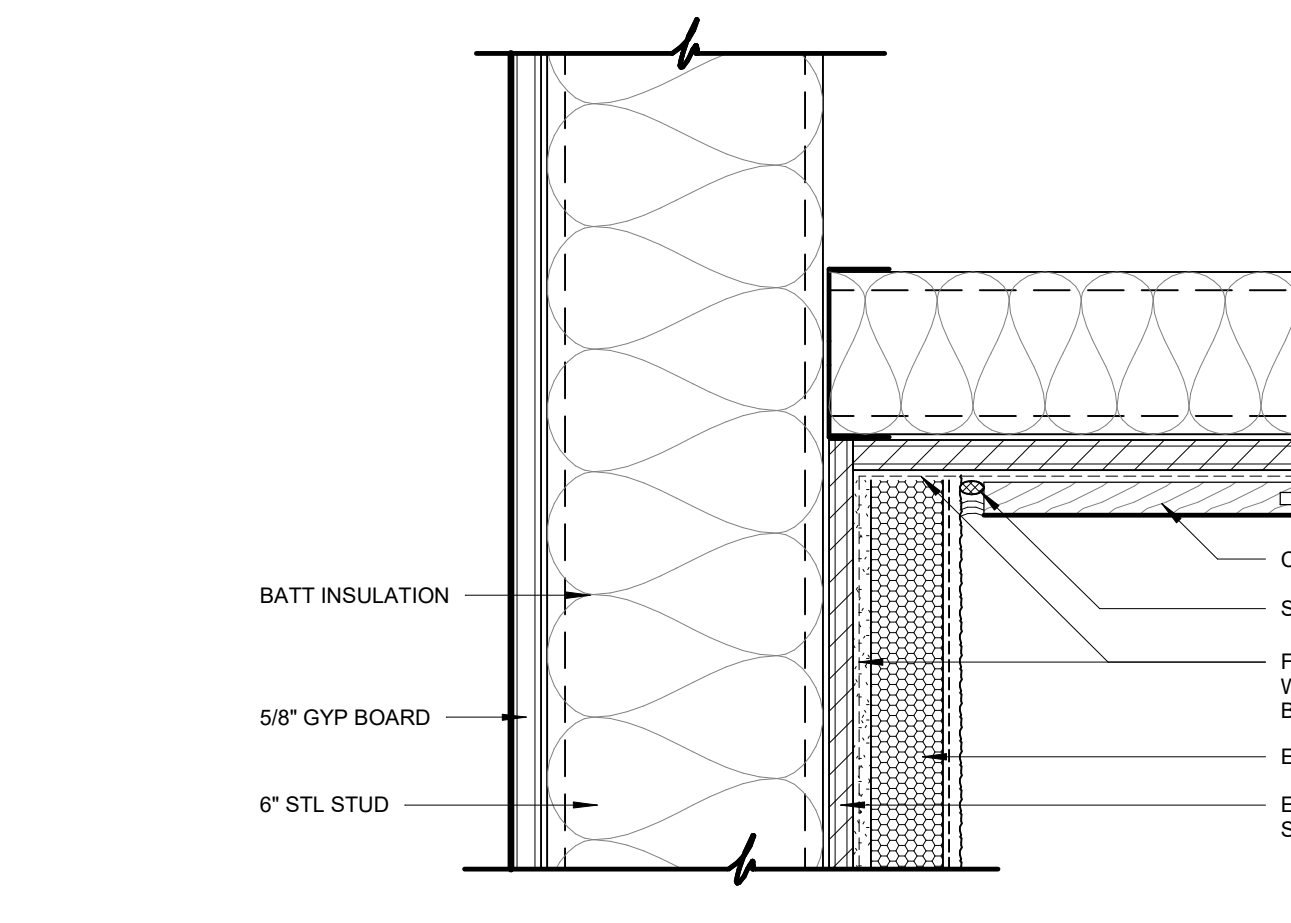
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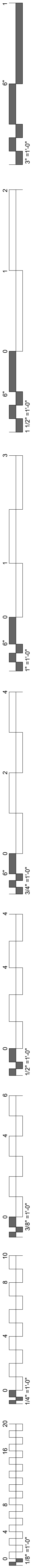
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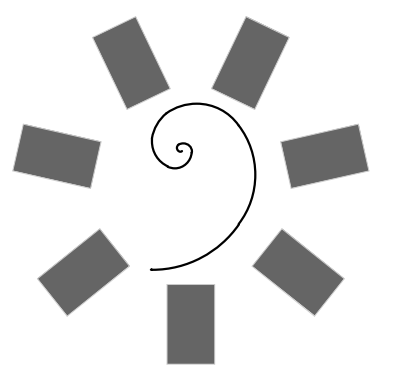


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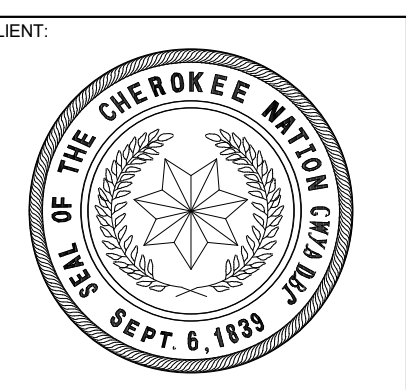


04 WALL SECTION DETAIL
3" = 1'-0"





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KEY PLAN

PROJECT PHASE
BID PACKAGE 02

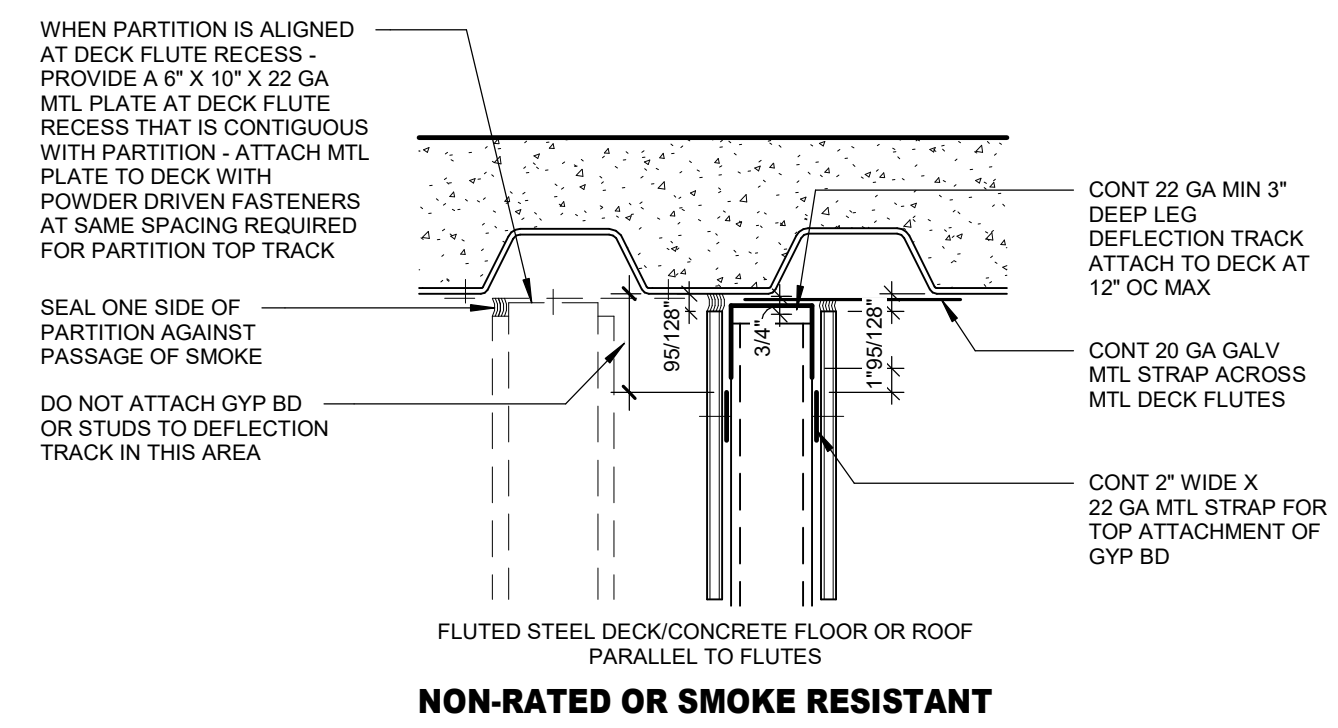
#	DATE	REVISIONS	DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 01	

DATE: 12-06-19
JOB NUMBER: 18-01.01

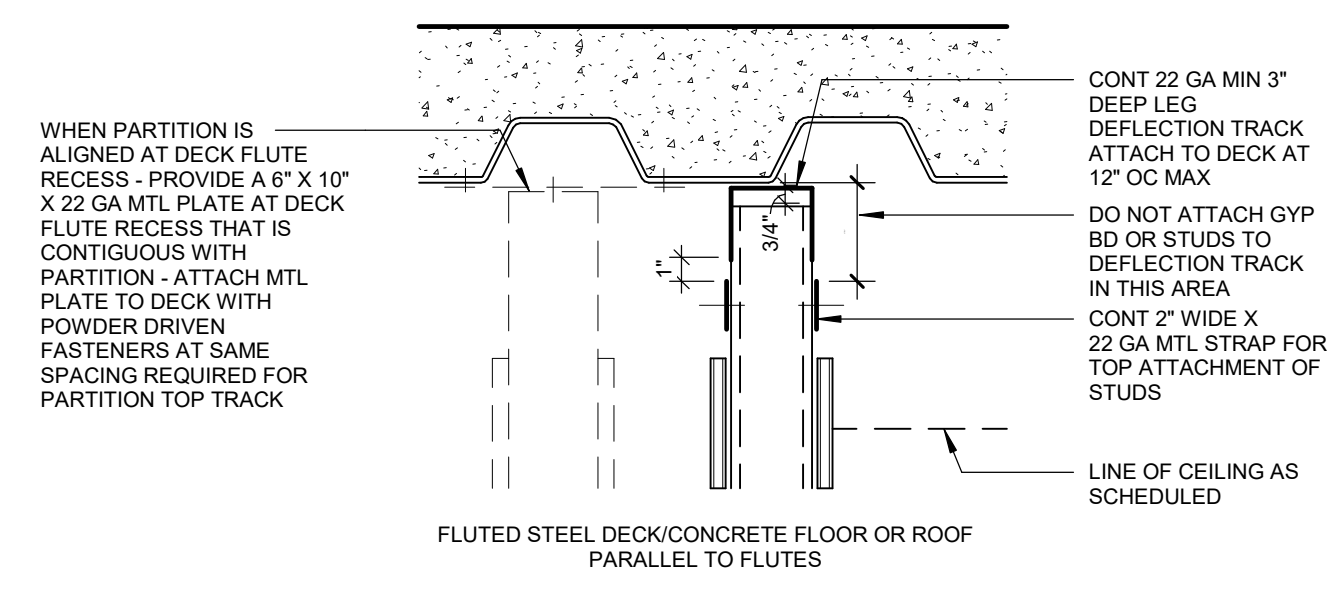
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PARTITION FRAMING / HEAD DETAILS

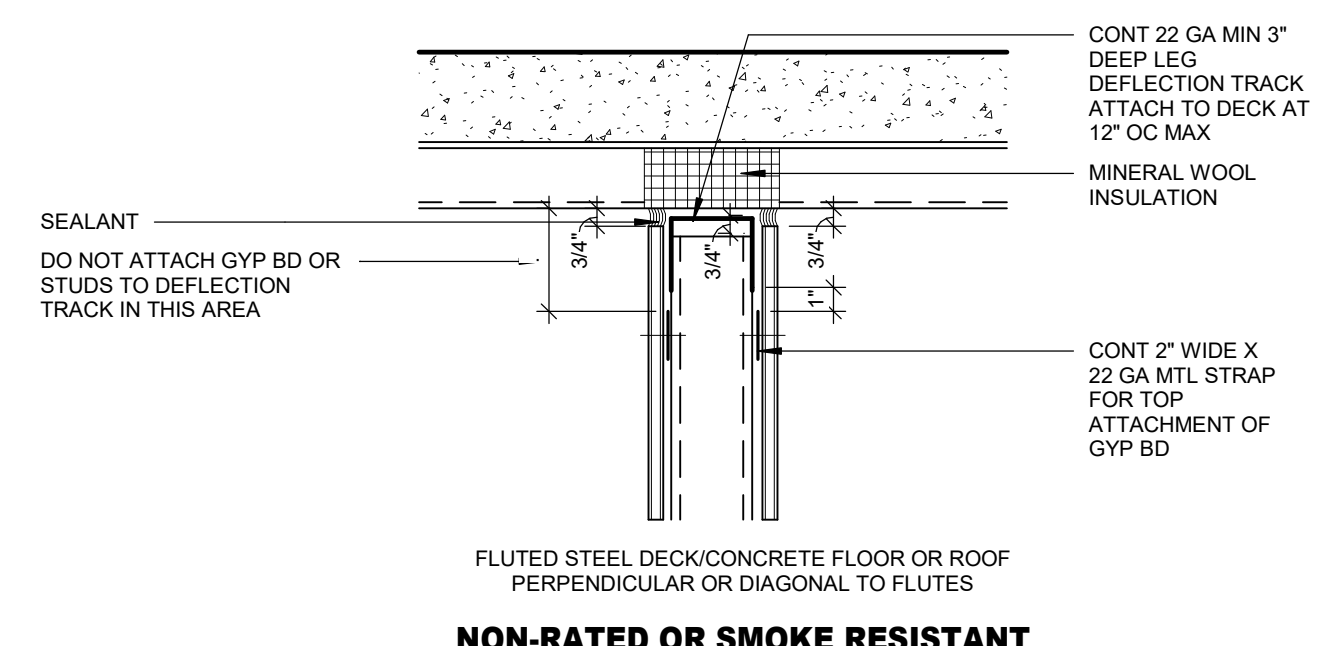
HEAD DETAILS - NON RATED



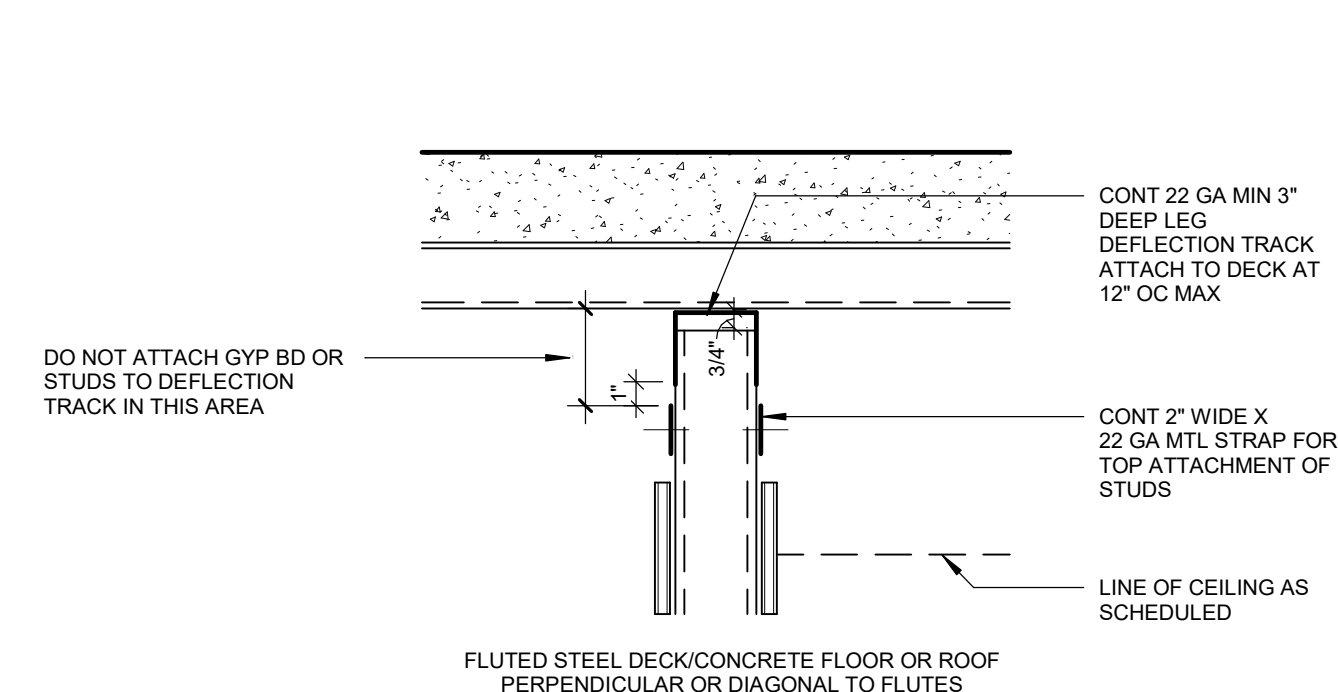
NON-RATED OR SMOKE RESISTANT



NON-RATED



NON-RATED OR SMOKE RESISTANT

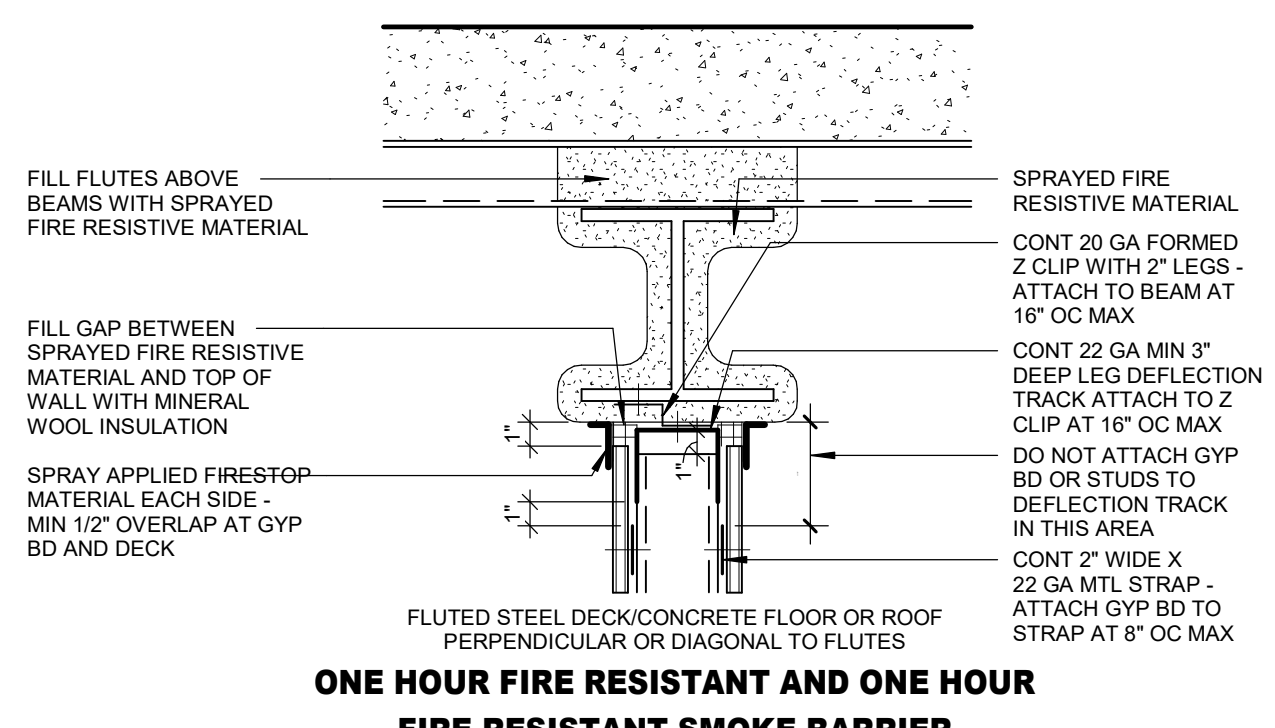


NON-RATED

HEAD OF WALL GENERAL NOTES

- REFER TO SPECIFICATIONS FOR HEAD OF WALL SLOTTED TRACK OPTIONS FOR METAL STUD WALLS. CONT 2\"/>

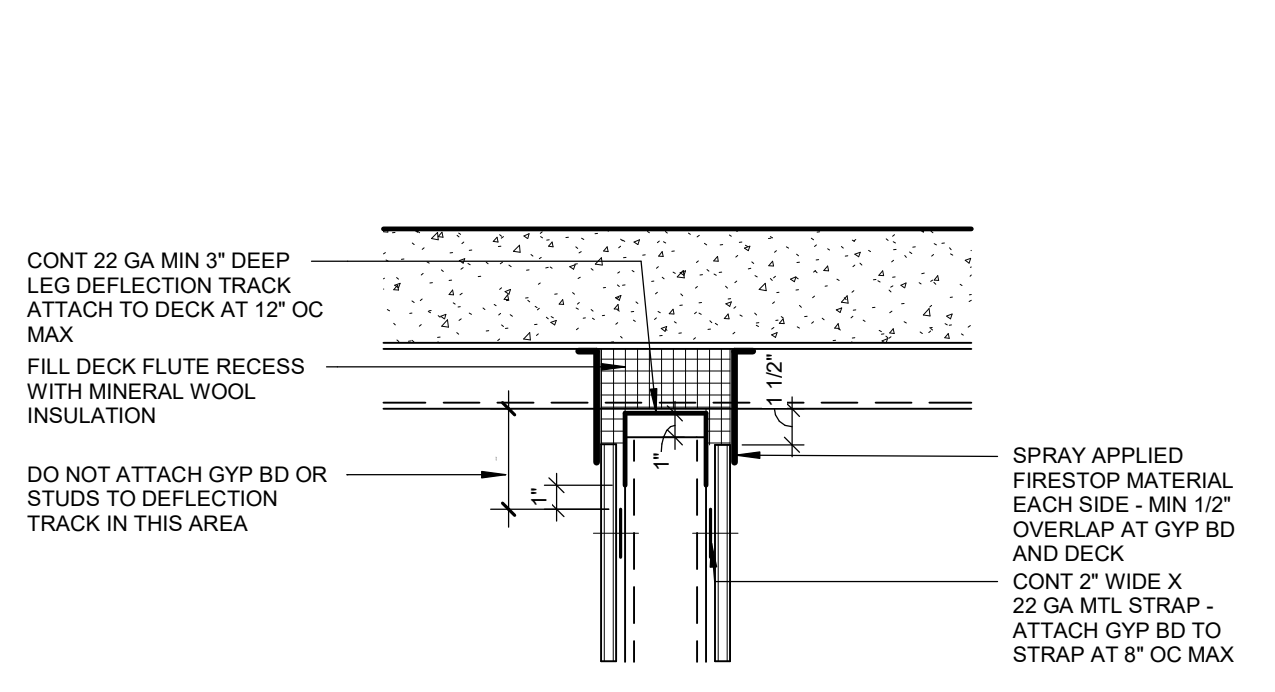
HEAD DETAILS - ONE HOUR RATED



ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0252

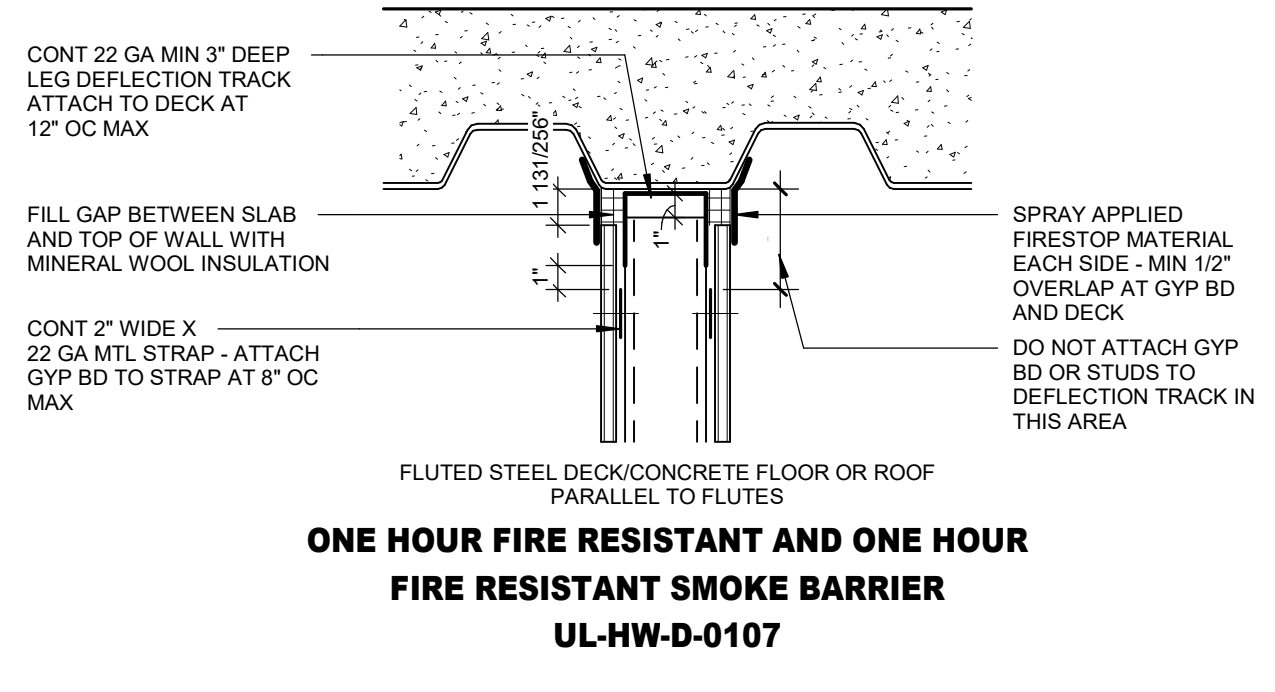
NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS



ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0107

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

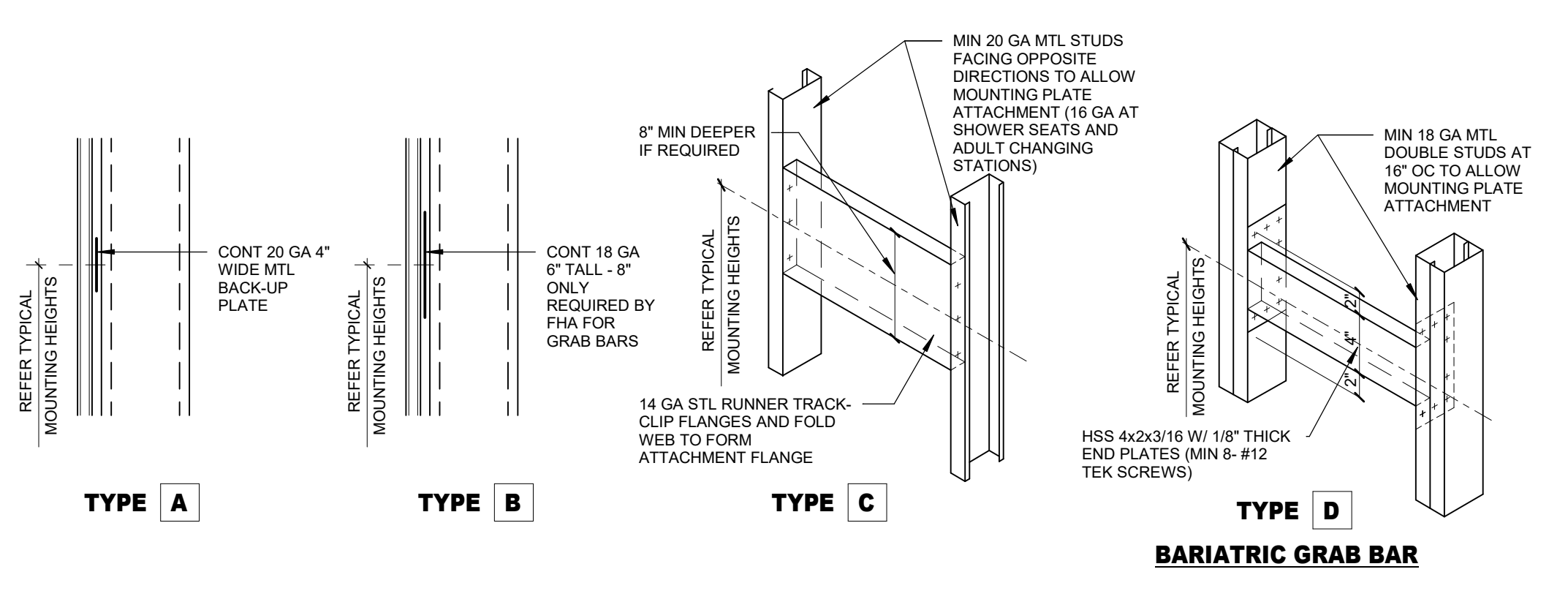


ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

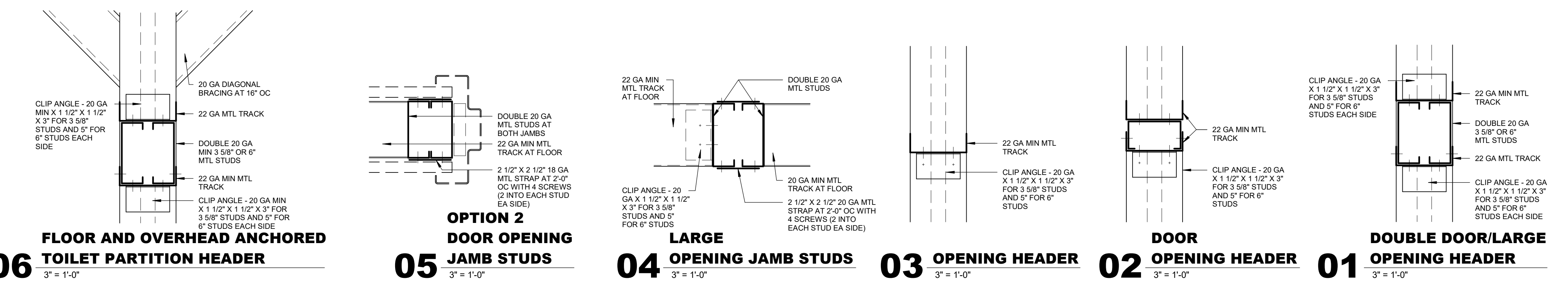
UL-HW-D-0107

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

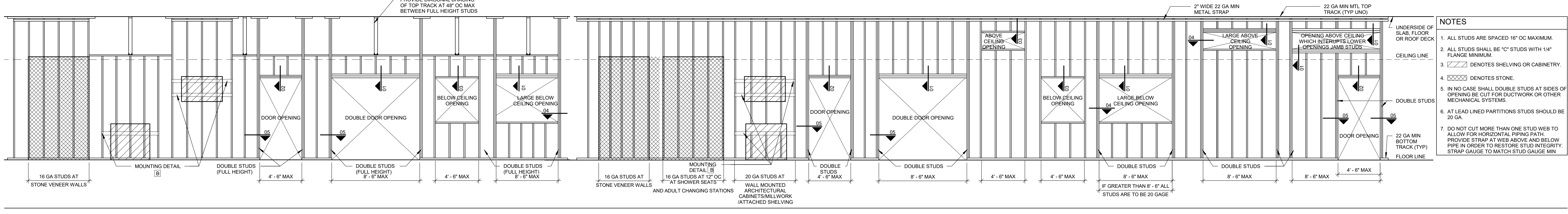
ACCESSORY/EQUIPMENT MOUNTING DETAILS



PARTITION FRAMING DETAILS

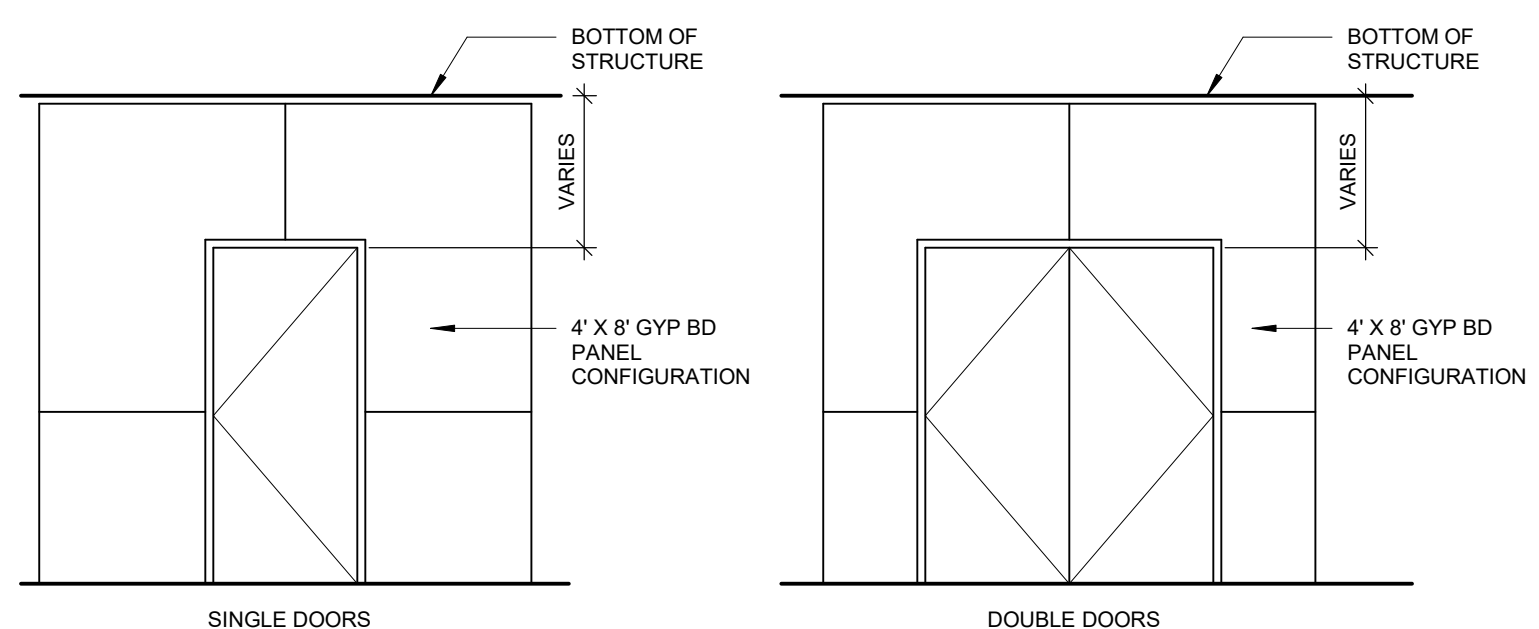


TYPICAL INTERIOR PARTITION FRAMING

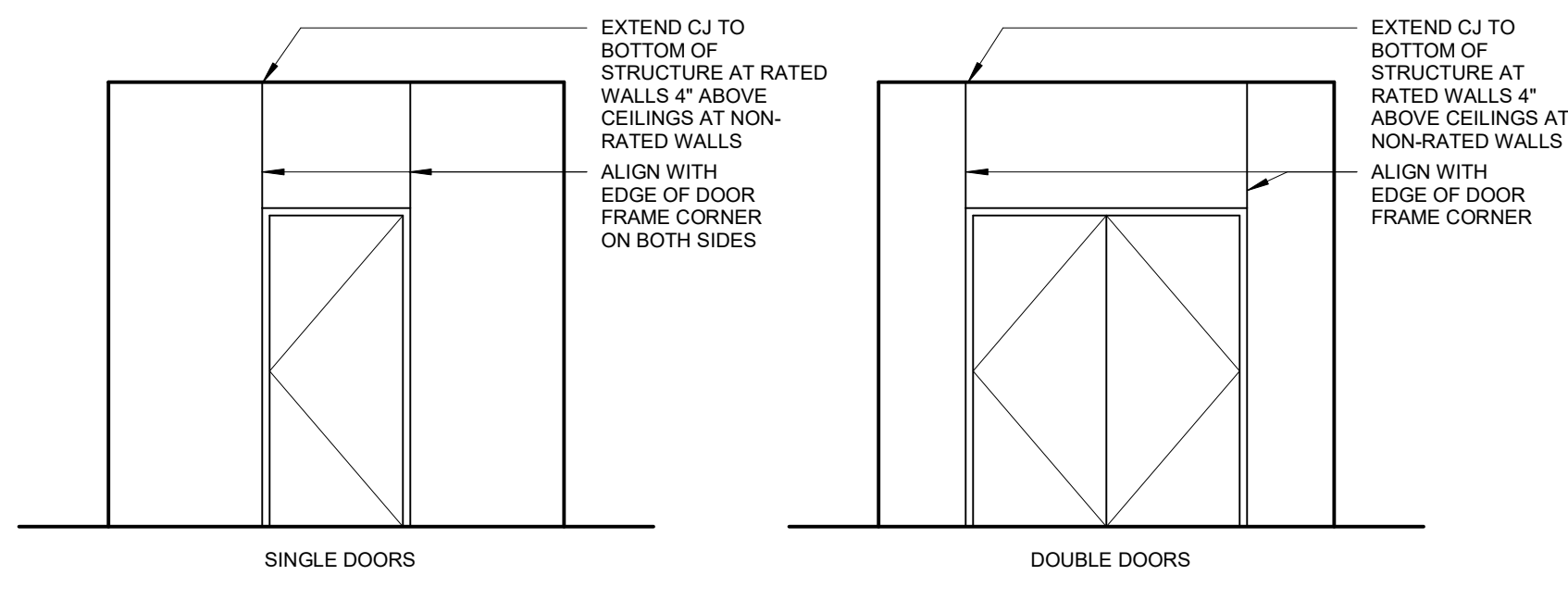


- #### NOTES
- ALL STUDS ARE SPACED 16\"/>
 - ALL STUDS SHALL BE 1\"/>
 - /// DENOTES SHELVING OR CABINETRY.
 - XXXX DENOTES STONE.
 - IN NO CASE SHALL DOUBLE STUDS AT SIDES OF OPENING BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.
 - AT LEAD LINED PARTITIONS STUDS SHOULD BE 20 GA.
 - DO NOT CUT MORE THAN ONE STUD WEB TO ALLOW FOR HORIZONTAL PIPING PATH. PROVIDE STRAP AT WEB ABOVE AND BELOW PIPE IN ORDER TO RESTORE STUD INTEGRITY. STRAP GAUGE TO MATCH STUD GAUGE MIN 20 GA.

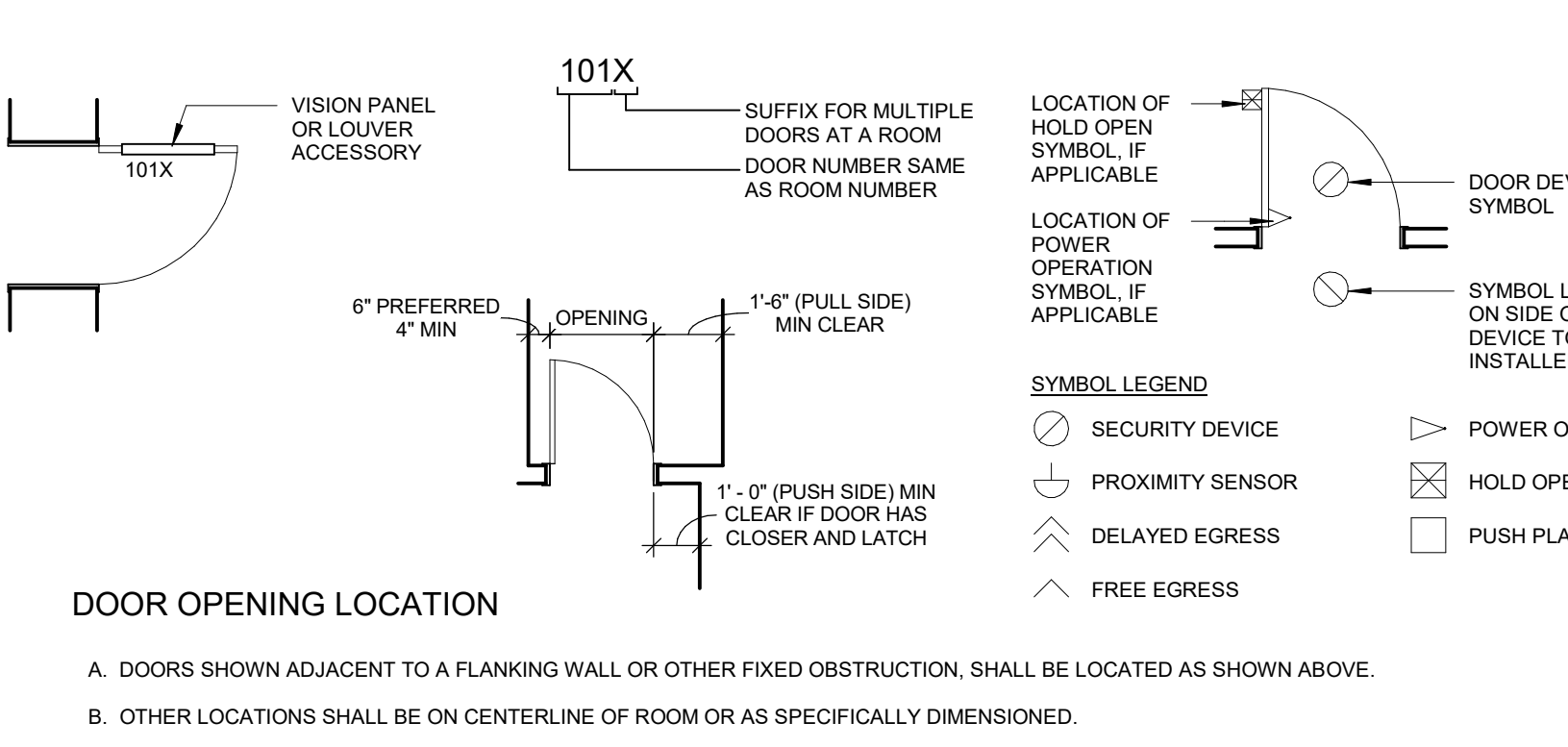
GYPSON BD CONFIGURATION AT DOORS



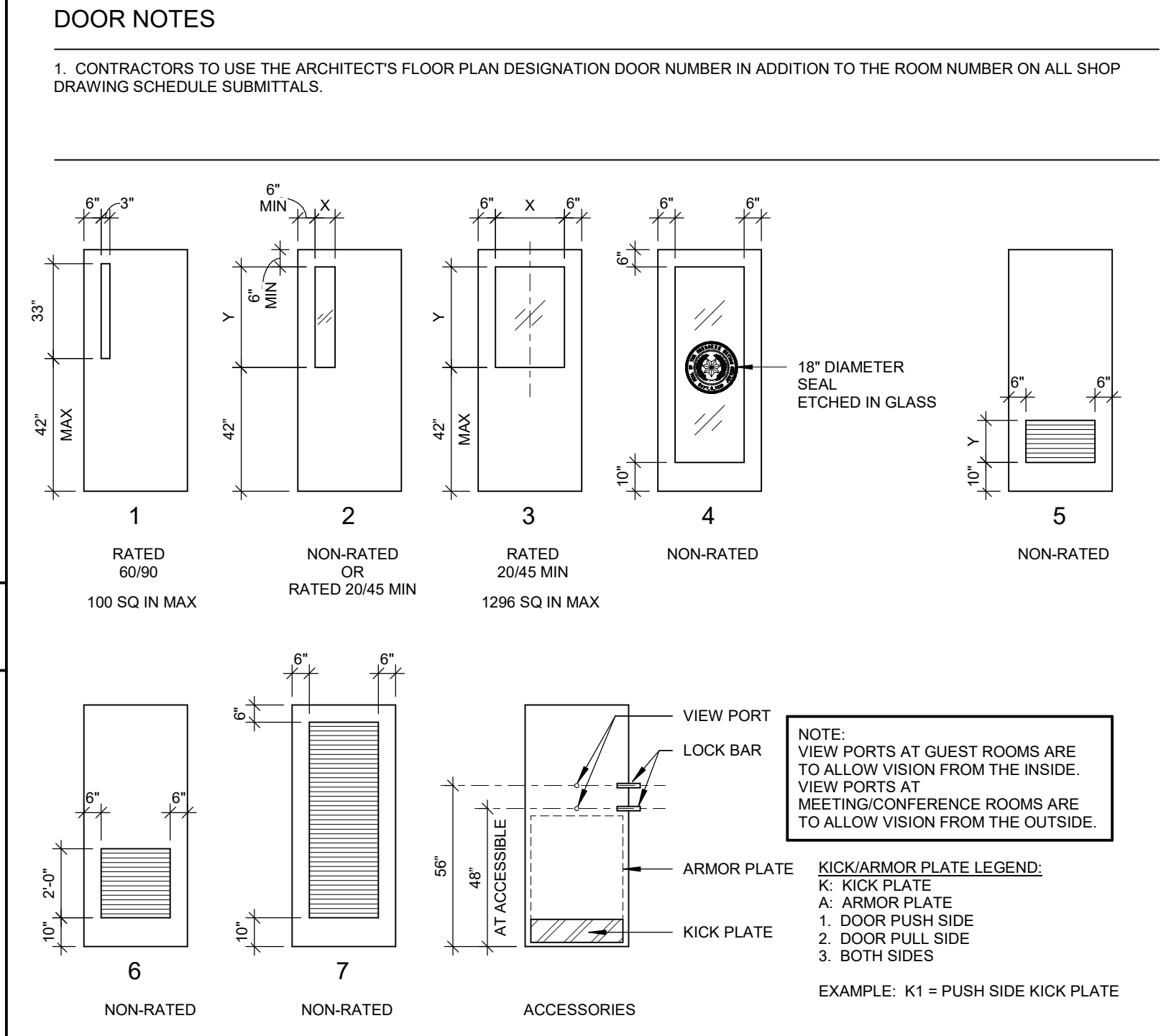
CONTROL JOINT AT DOOR FRAMES



DOOR PLAN DESIGNATION



VISION PANELS / LOUVERS / ACCESSORIES



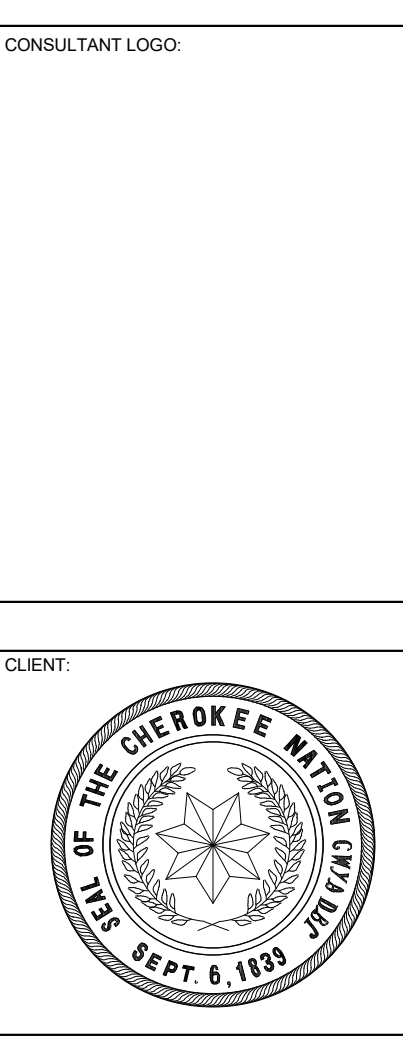
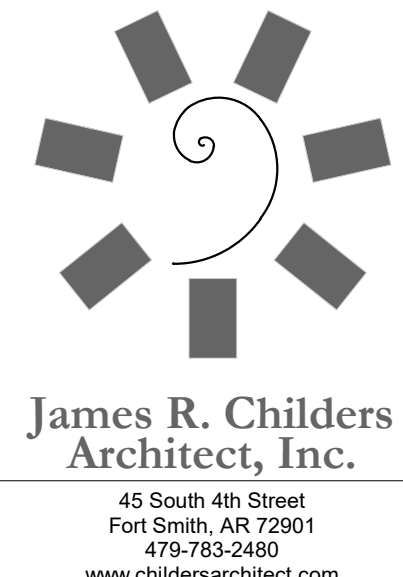
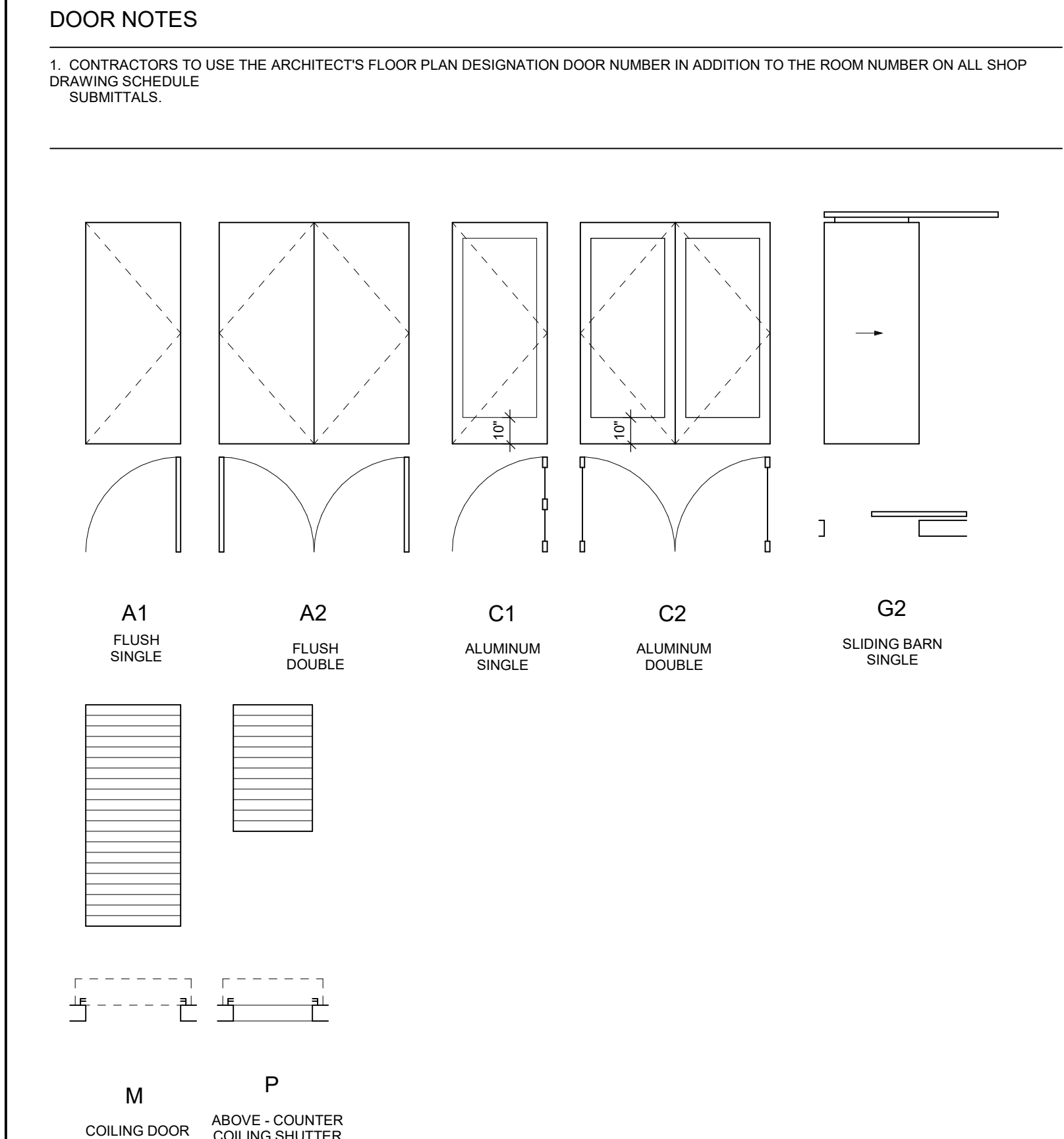
DOOR SCHEDULE

Table with columns for Door Number, Width, Height, Door Type, Frame Type, Materials and Finishes, Controls, Fire Rating, Hardware, and Comments. Includes Level 01 and Level 02 schedules.

Table with columns for Door Number, Width, Height, Door Type, Frame Type, Materials and Finishes, Controls, Fire Rating, Hardware, and Comments. Includes Level 01 and Level 02 schedules.

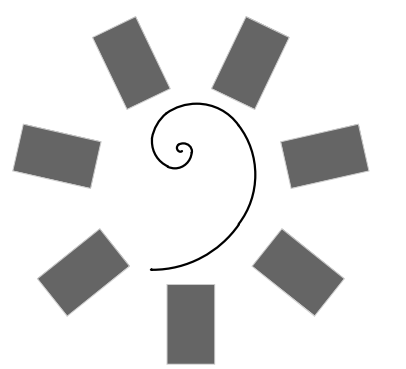
Table with columns for Door Number, Width, Height, Door Type, Frame Type, Materials and Finishes, Controls, Fire Rating, Hardware, and Comments. Includes Level 01 and Level 02 schedules.

DOOR TYPES

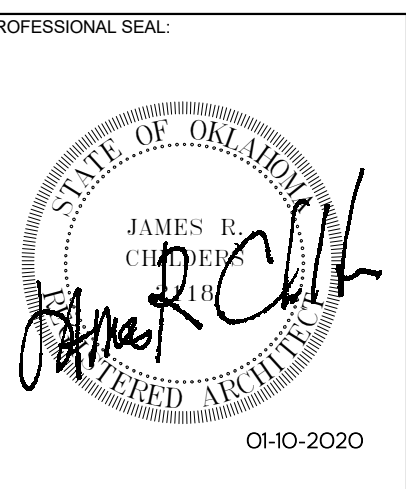


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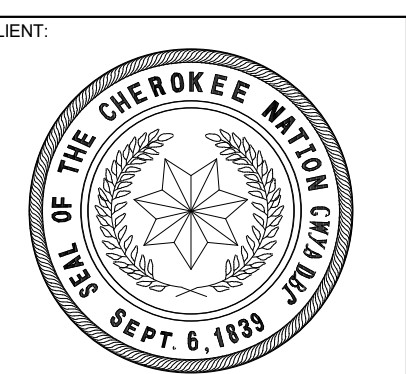
KEY PLAN, PROJECT PHASE (BID PACKAGE 02), REVISIONS table, DATE (12-06-19), JOB NUMBER (18-01.01), SHEET NUMBER (A6.10), and DOOR SCHEDULE / INFORMATION.



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CONSULTANT LOGO



WILMA P. MANKILLER HEALTH CENTER
EXPANSION
STILWELL, OKLAHOMA

KEY PLAN

PROJECT PHASE
BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 01	

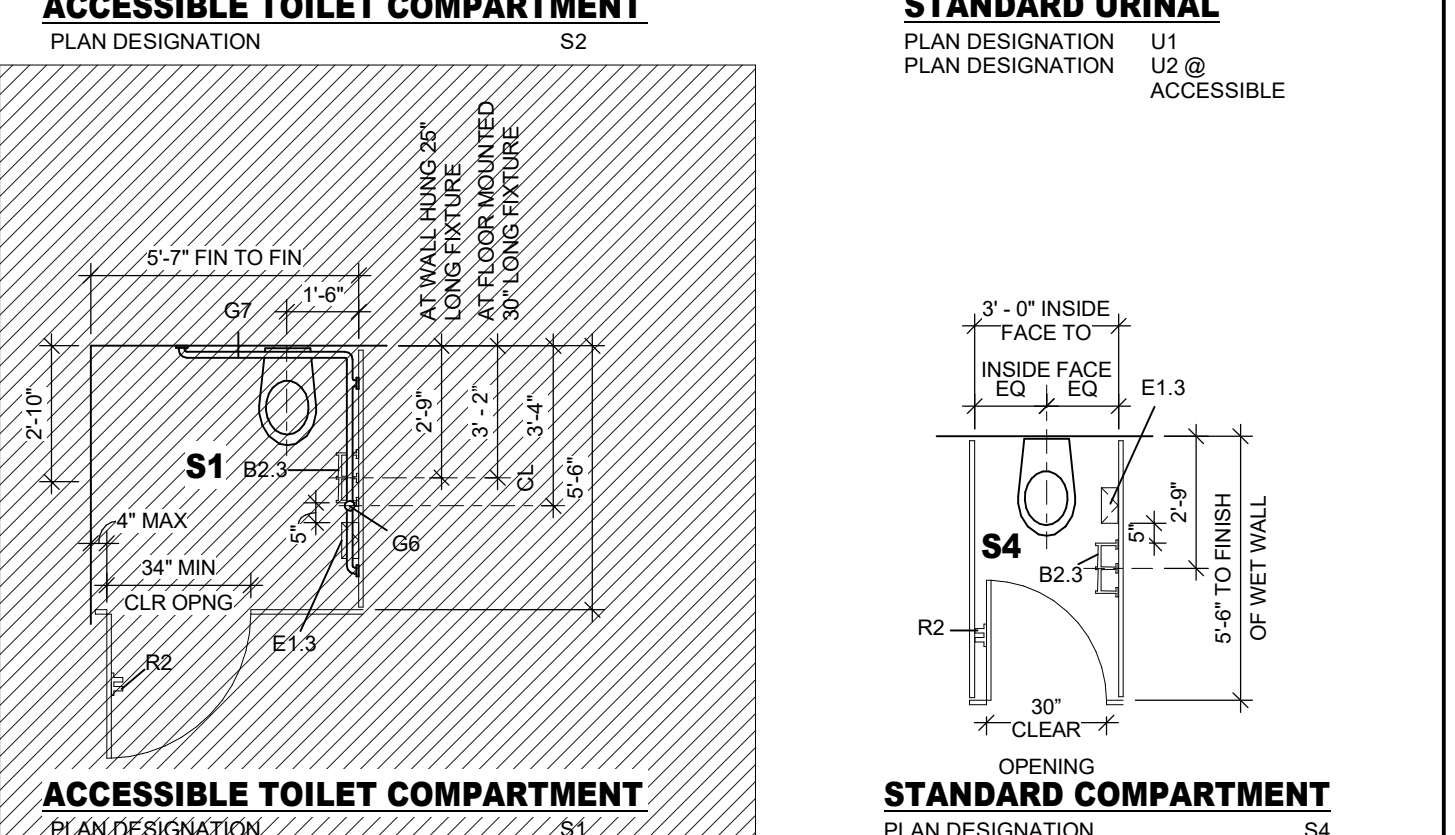
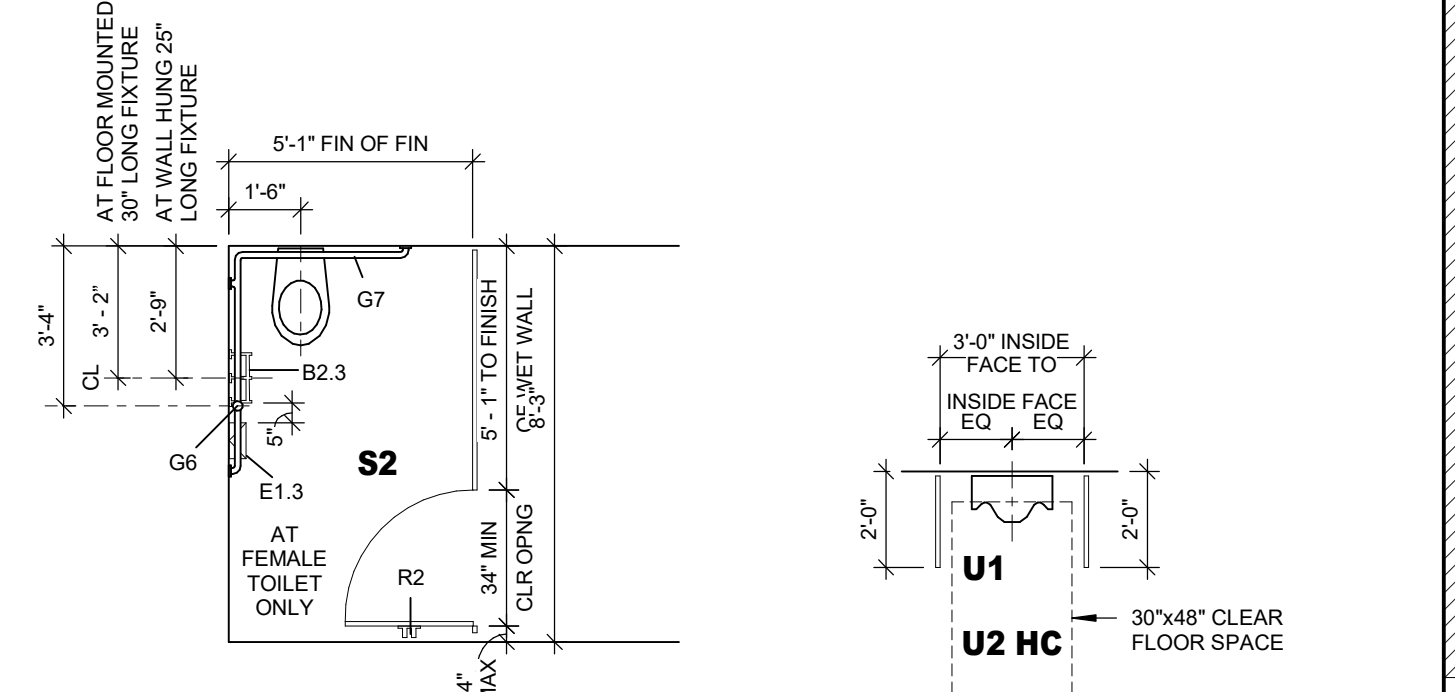
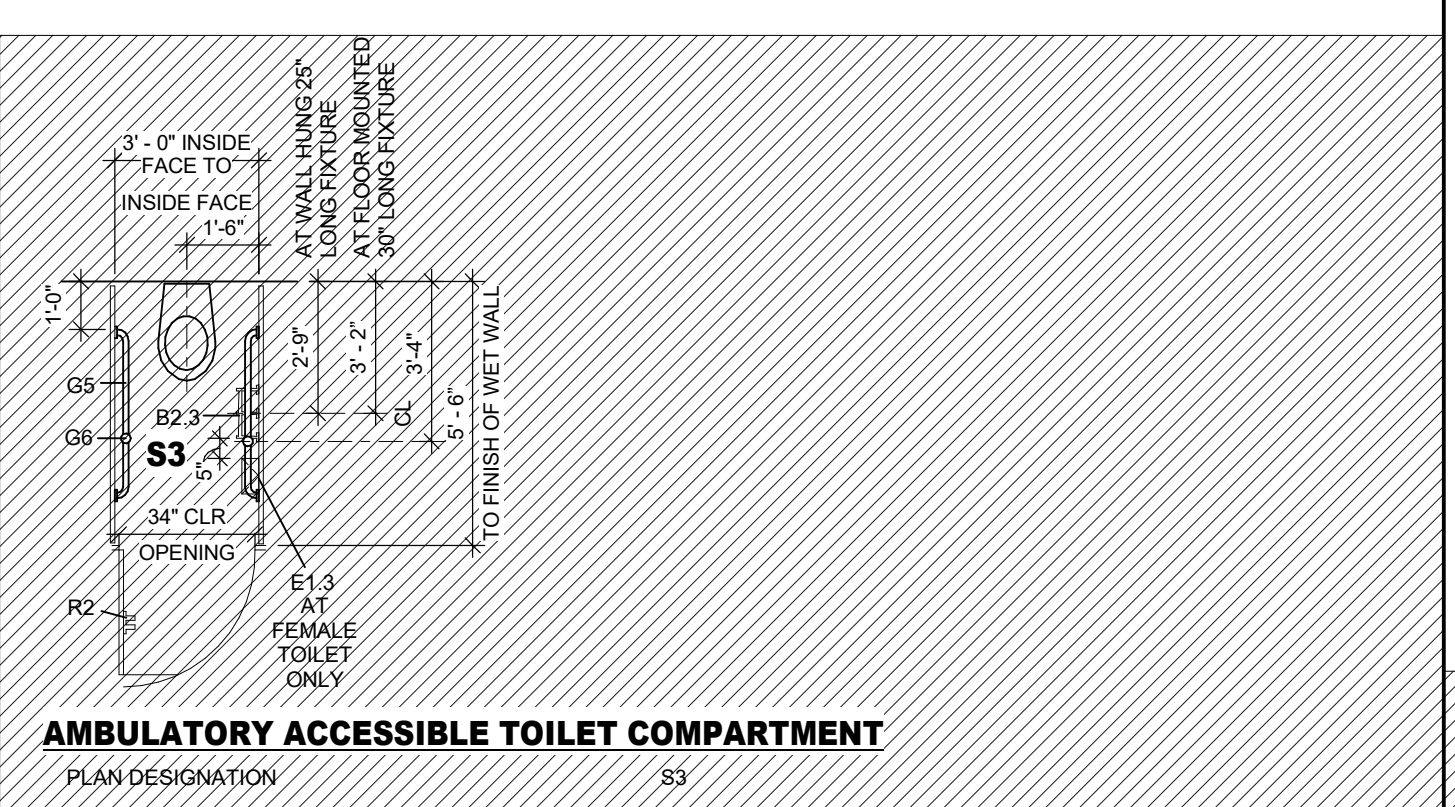
DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER: A6.20

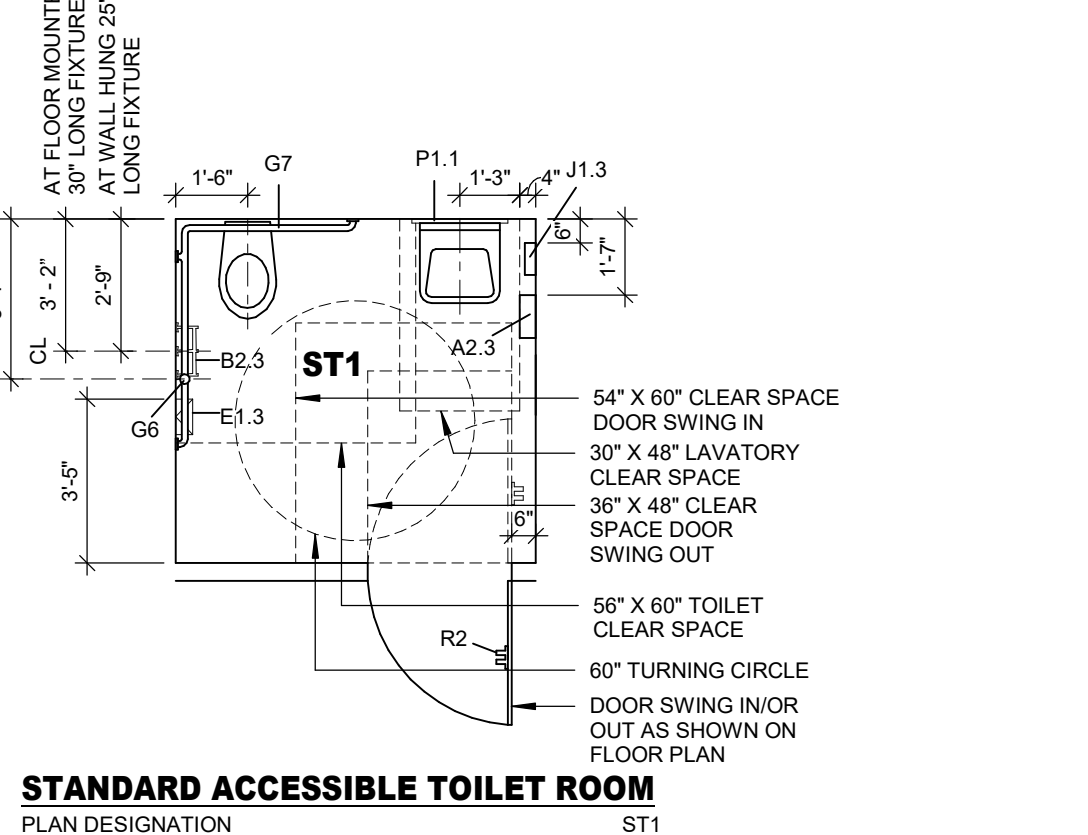
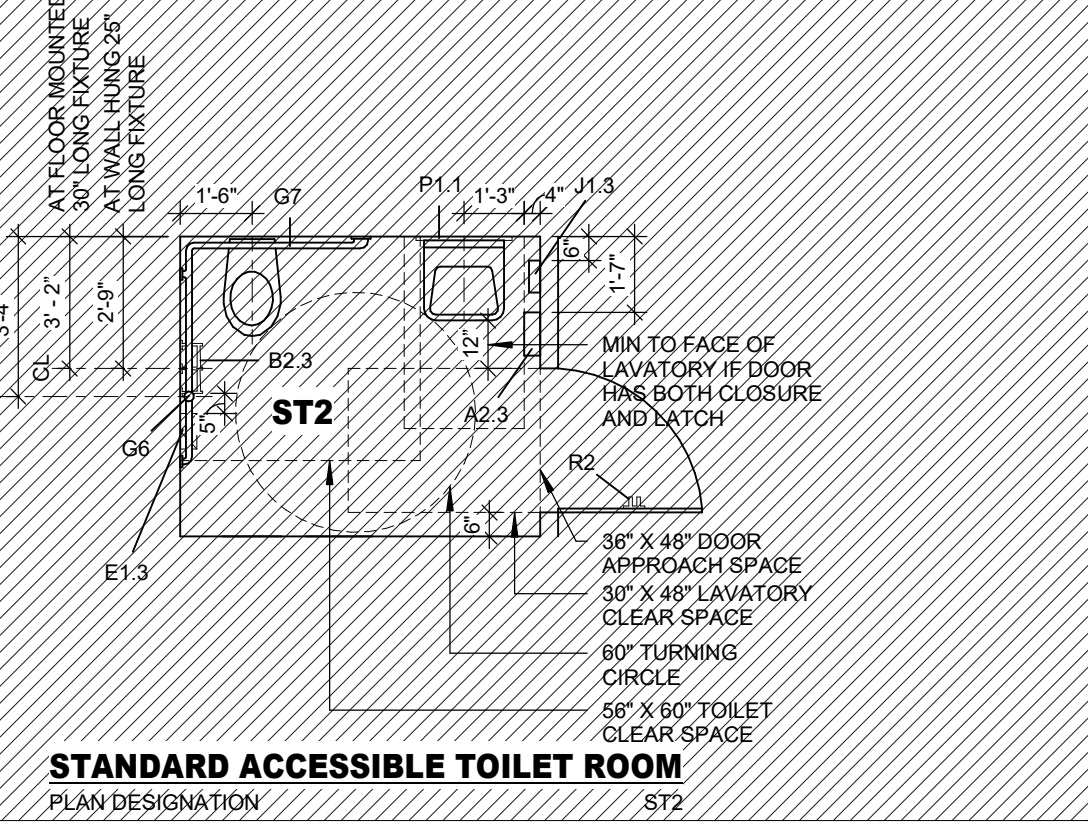
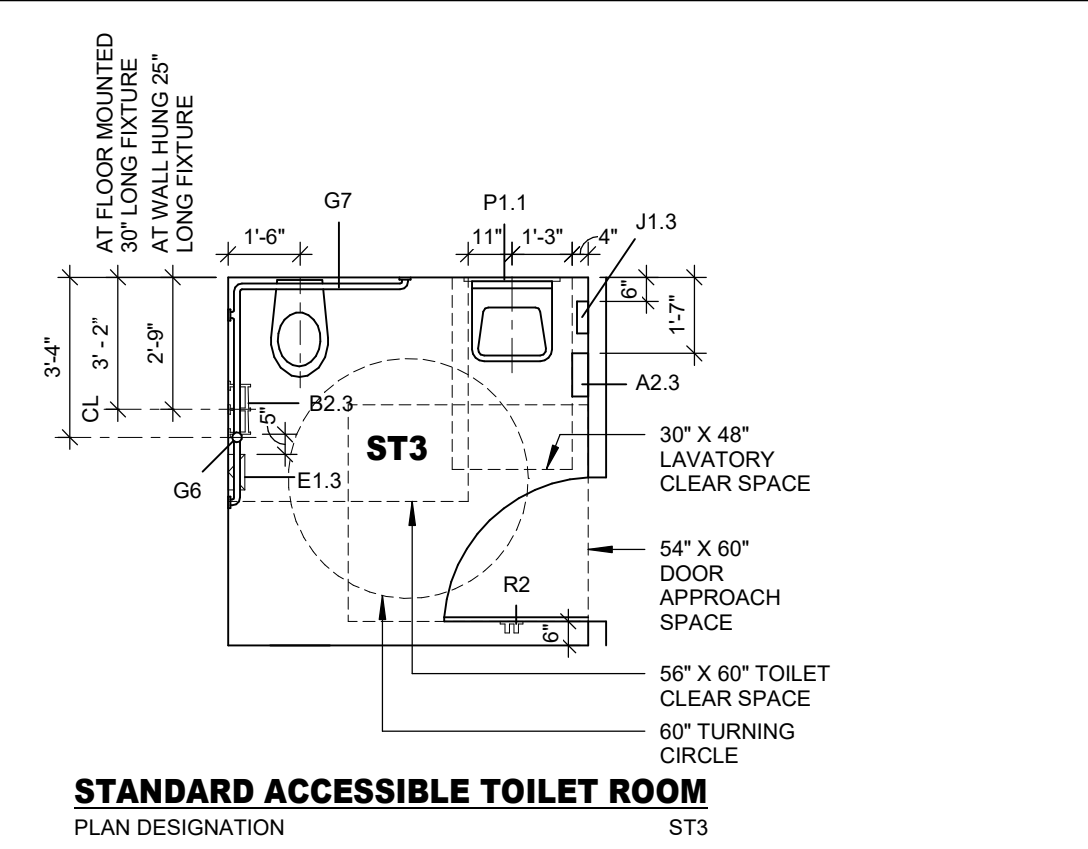
STANDARD TOILET LAYOUT / ACCESSORIES

TOILET STALLS

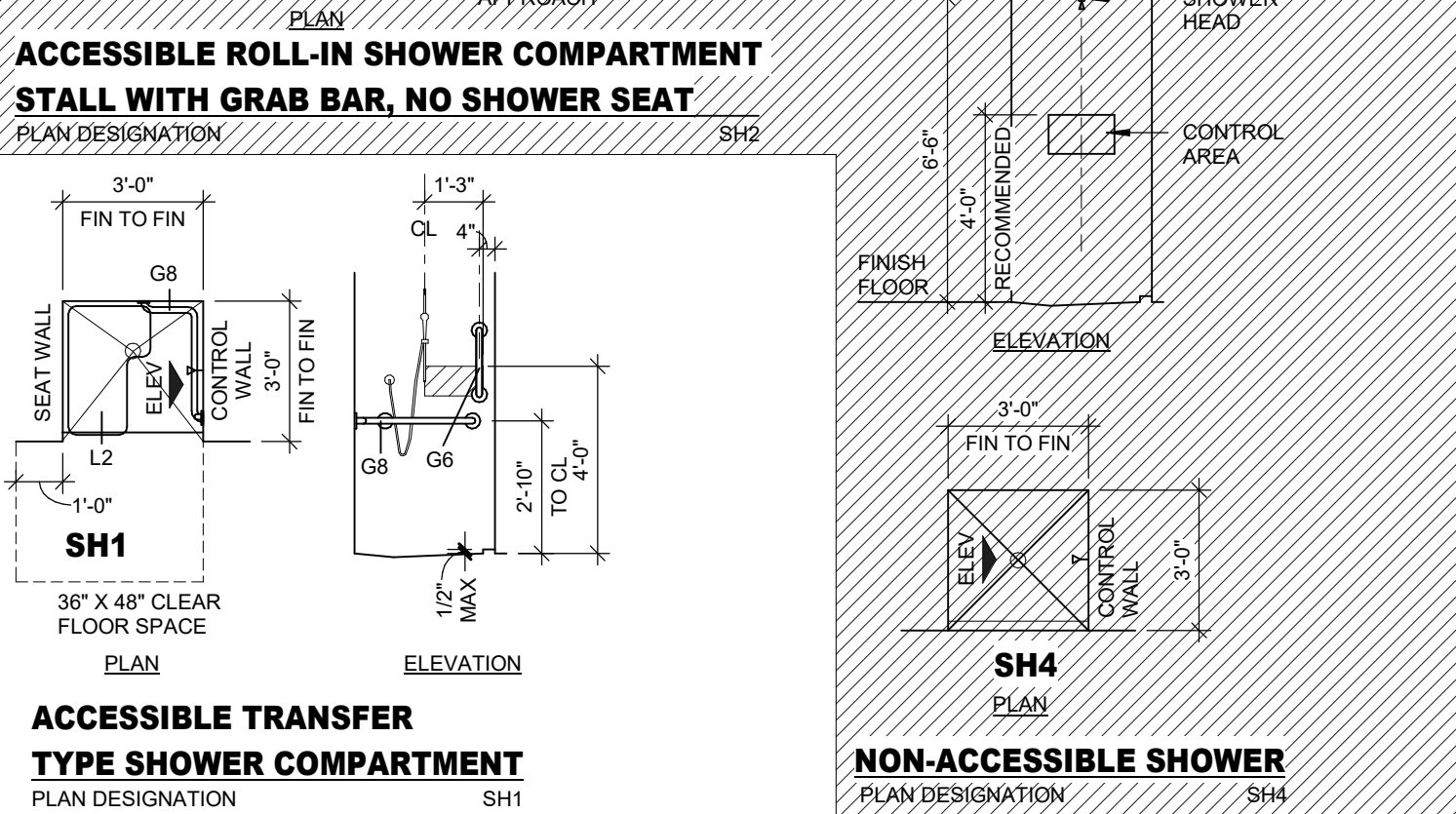
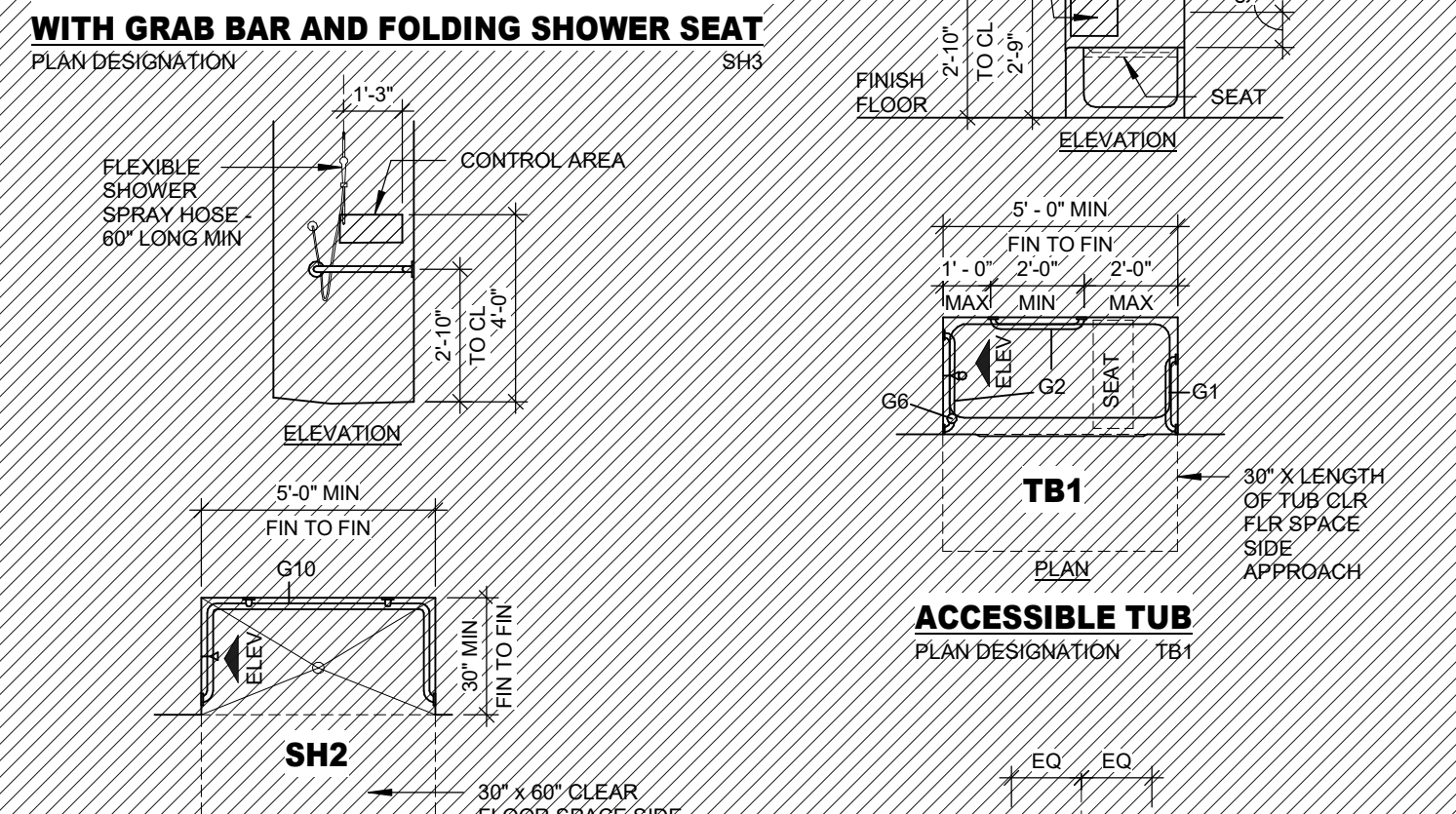
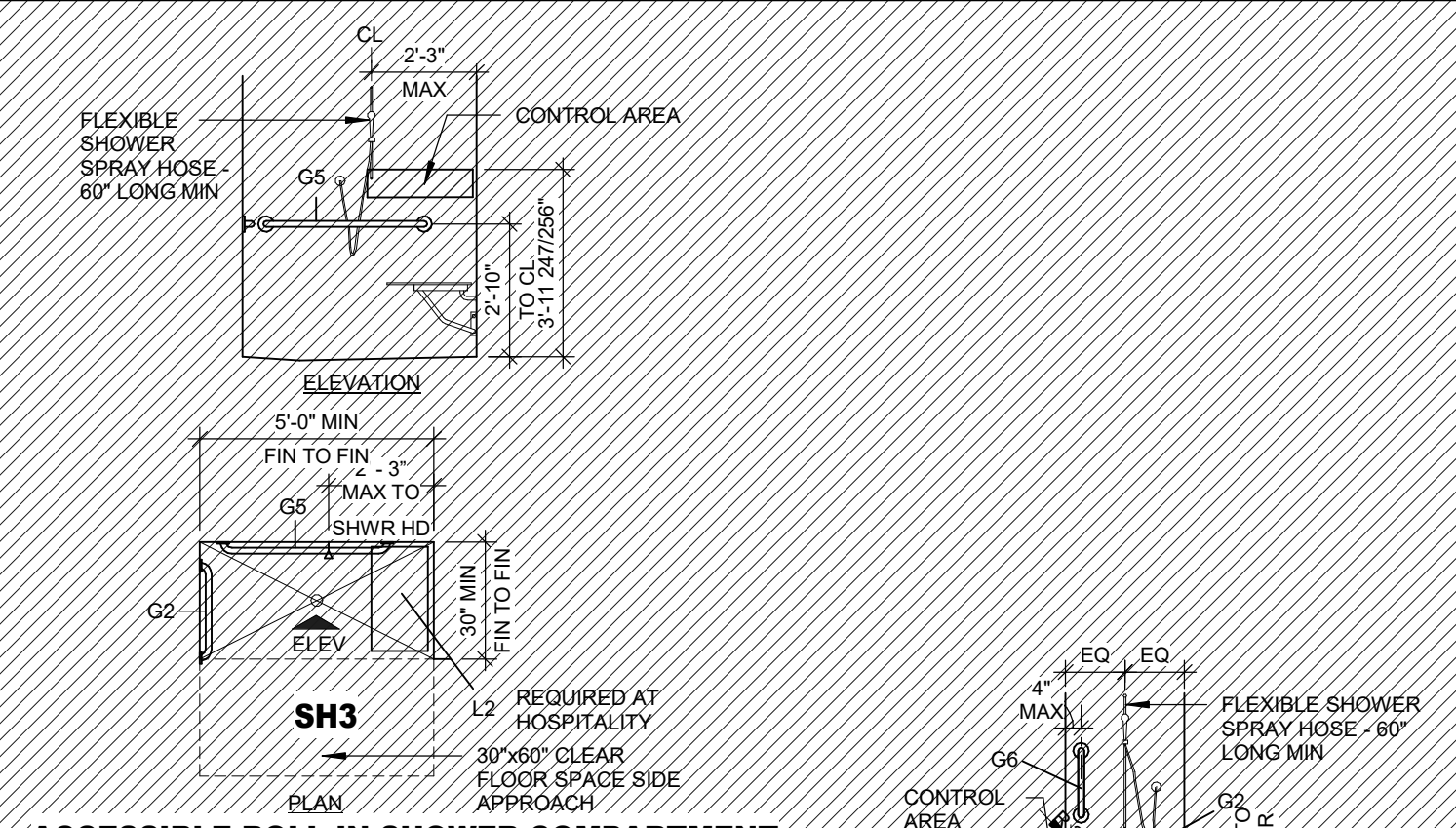
NOTE: LOCATE FLUSH ACTIVATION ON WIDE SIDE AT ALL TOILETS - LOCATE FLUSH VALVE BENEATH ADJACENT GRAB BARS.



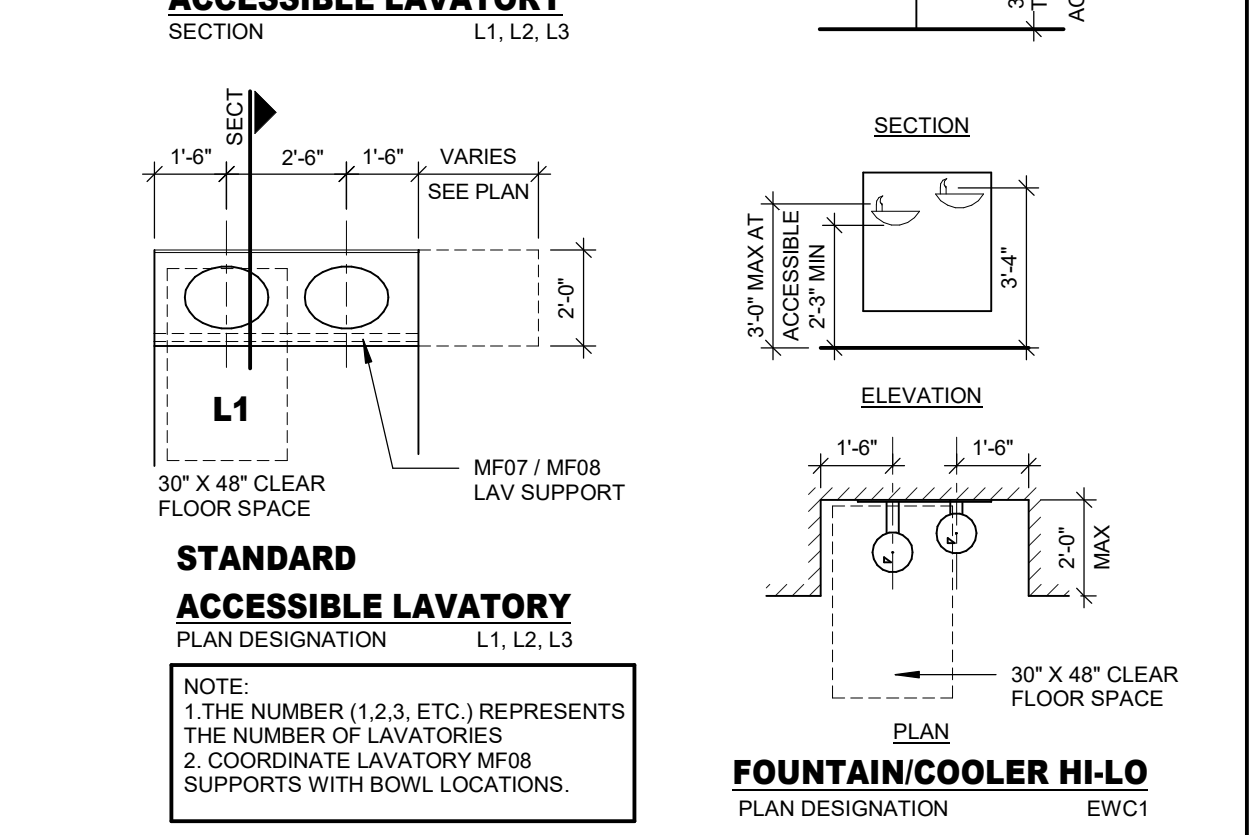
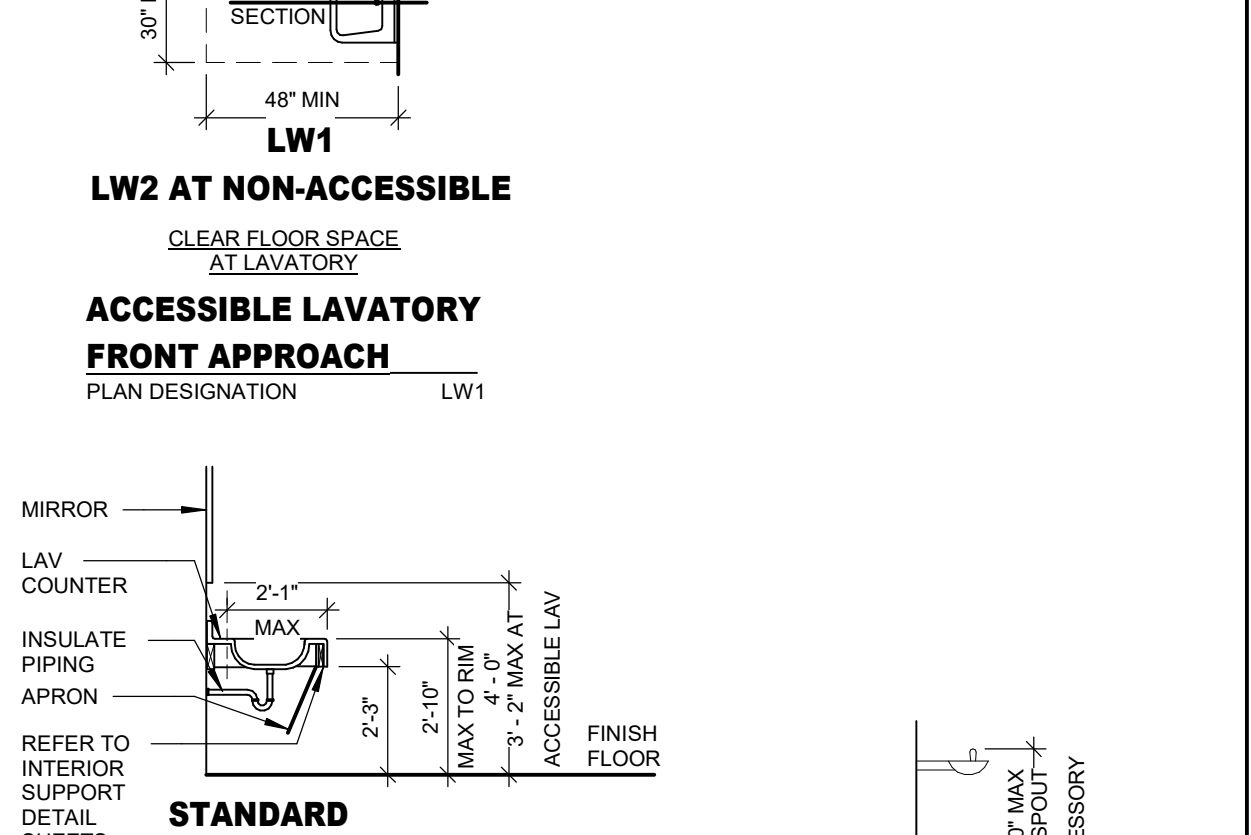
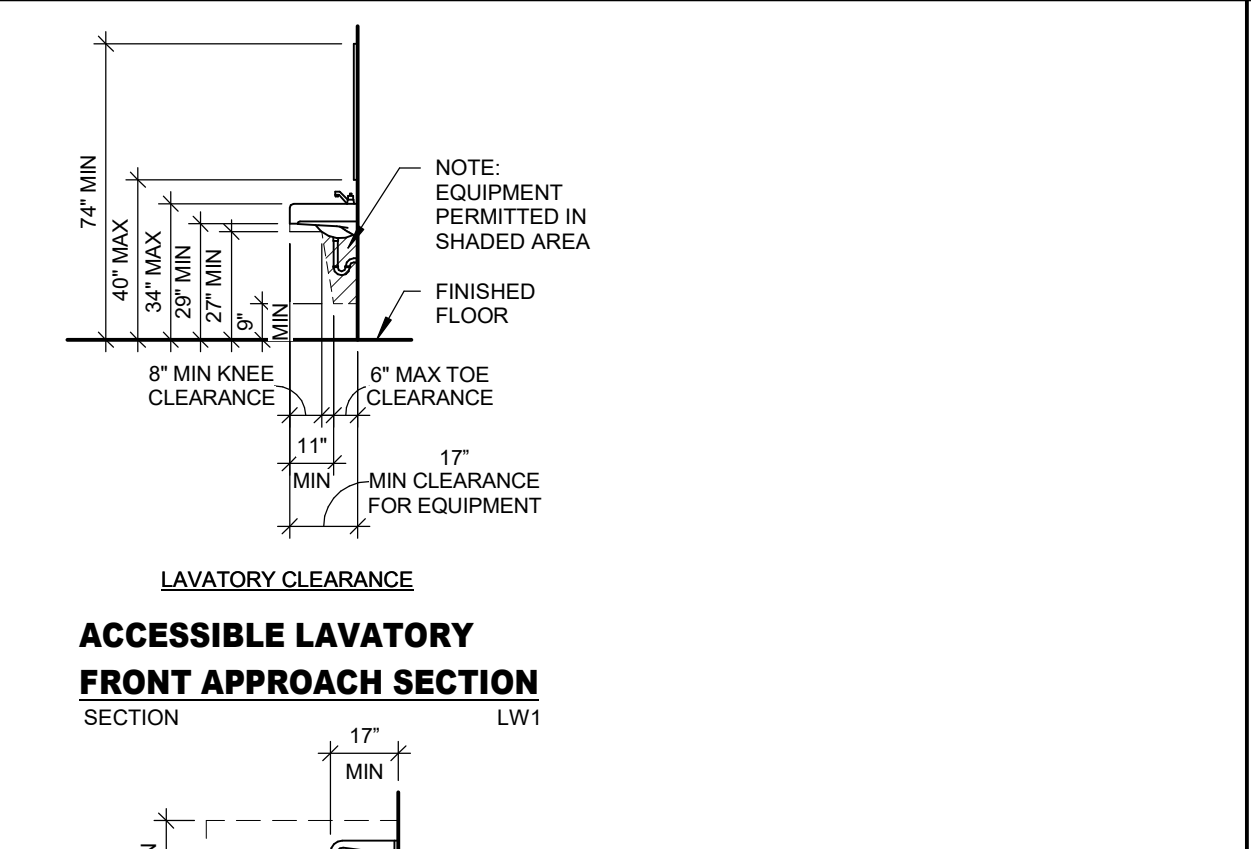
STANDARD TOILET LAYOUTS



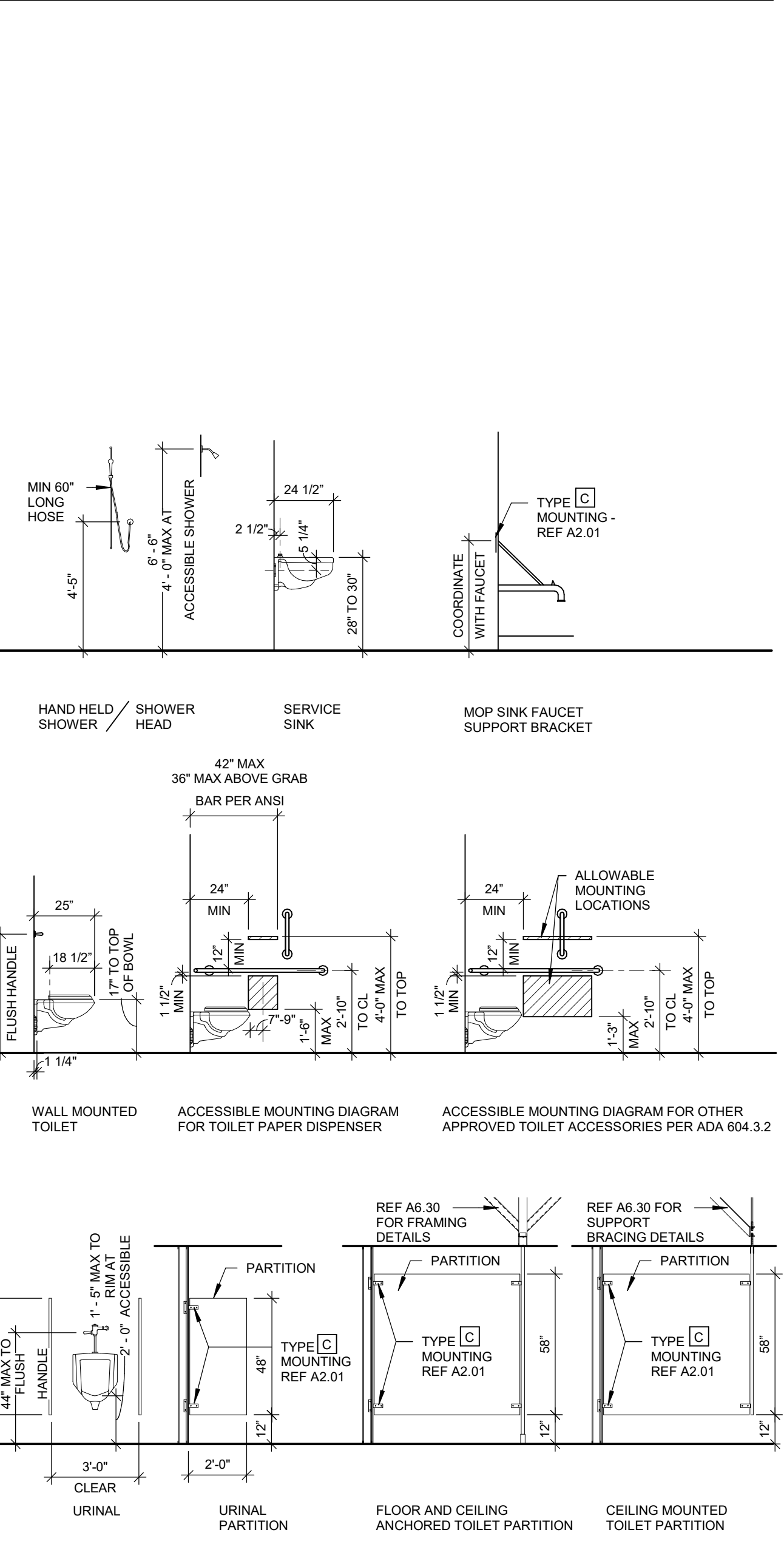
SHOWER / TUB LAYOUTS



ACCESSIBLE LAVATORIES / EWC



FIXTURE MOUNTING DIAGRAM

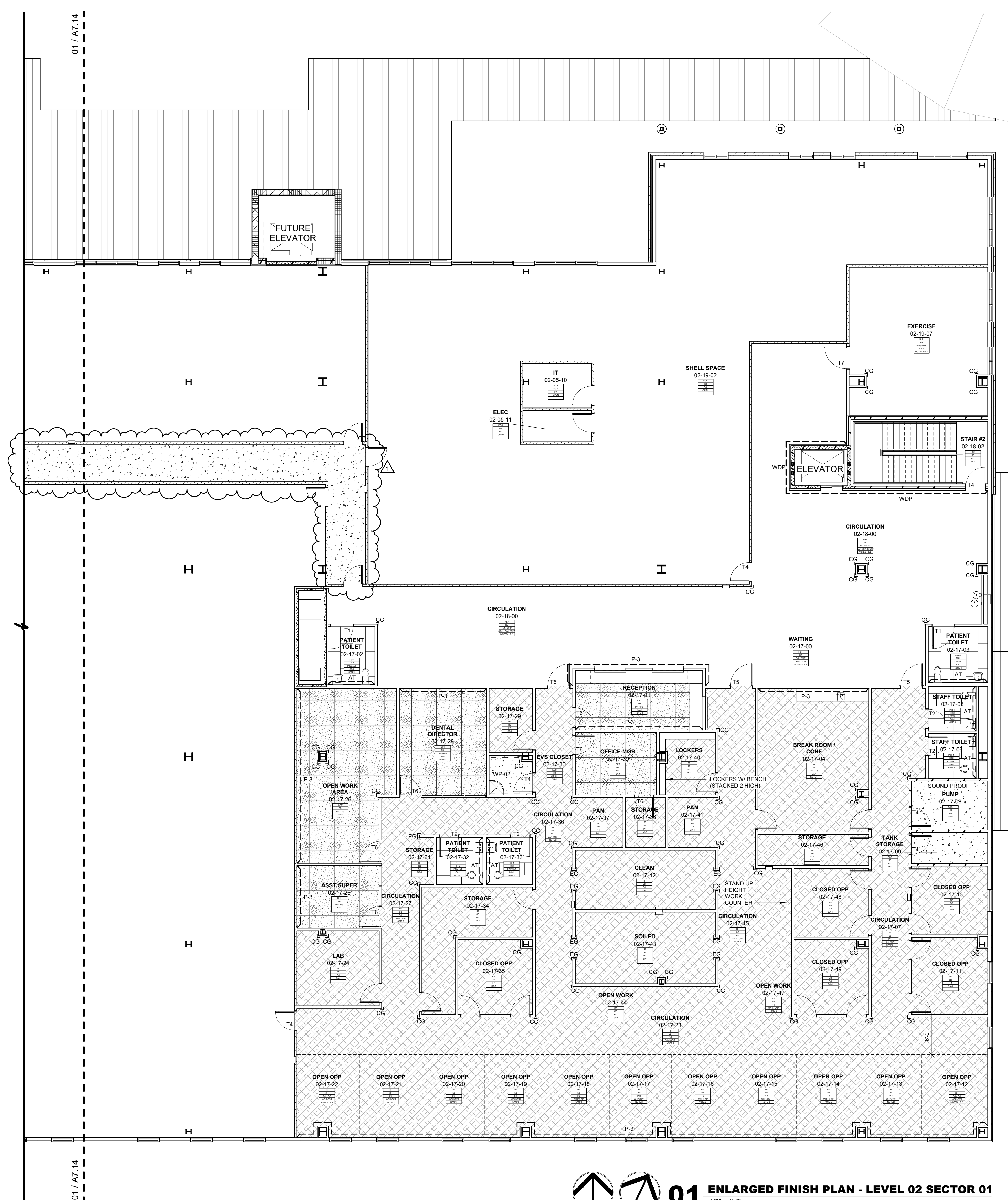
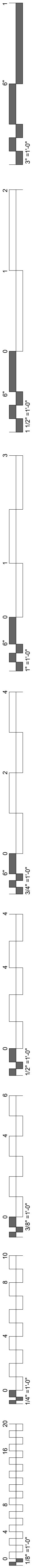


TOILET ACCESSORY MOUNTING DIAGRAM

TOILET ACCESSORY ITEM	ITEM [A] - PAPER TOWEL DISPENSER	ITEM [B] - TOILET TISSUE DISPENSER	ITEM [C] - FACIAL TISSUE DISPENSER	ITEM [D] - WASTE RECEPTACLE	ITEM [E] - SANITARY NAPKIN DISPOSAL	ITEM [F] - SANITARY NAPKIN VENDOR	ITEM [G] - GRAB BARS	ITEM [H] - PAPER TOWEL DISPENSER & WASTE RECEPTACLE				
FINISH FLOOR												
TYPES	[1] SURFACE - MANUAL [2] SURFACE - AUTOMATIC [3] RECESSED - MANUAL	[1] SURFACE - SINGLE ROLL [2] SURFACE - DOUBLE ROLL [3] SURFACE - MULTI-ROLL [4] PARTITION-MOUNTED	[1] SURFACE [2] RECESSED	[1] SURFACE [2] RECESSED [3] SEMI-RECESSED [4] UNDER-COUNTER	[1] SURFACE [2] RECESSED [3] PARTITION-MOUNTED	[1] SURFACE [2] RECESSED	[1] HORIZONTAL - 18 INCHES [2] HORIZONTAL - 24 INCHES [3] HORIZONTAL - 30 INCHES [4] HORIZONTAL - 36 INCHES [5] HORIZONTAL - 42 INCHES [6] VERTICAL - 18 INCHES [7] L-SHAPED, HORIZONTAL - 42"x54" [8] L-SHAPED, HORIZONTAL - 16"x30"	[1] SEMI-RECESSED - 12 GAL. [2] SEMI-RECESSED - 18 GAL. [3] RECESSED - 12 GAL.				
DRAWING DESIGNATION	A1.1 - SURFACE - MANUAL (C) - (C) A1.2 - SURFACE - AUTOMATIC (C) - (C) A1.3 - SURFACE - MANUAL (O) - (V)	B1.1 - SURFACE - SINGLE ROLL (C) - (C) B1.2 - SURFACE - DOUBLE ROLL (O) - (C) B1.3 - SURFACE - SINGLE ROLL (O) - (V)	B5.1 - RECESSED - SINGLE ROLL (C) - (C) B5.2 - RECESSED - SINGLE ROLL (O) - (C) B5.3 - RECESSED - SINGLE ROLL (O) - (V)	C1.1 - SURFACE (C) - (C) C1.2 - SURFACE (O) - (C) C1.3 - SURFACE (O) - (V)	D1.1 - SURFACE (C) - (C) D1.2 - SURFACE (O) - (C) D1.3 - SURFACE (O) - (V)	E1.1 - SURFACE (C) - (C) E1.2 - SURFACE (O) - (C) E1.3 - SURFACE (O) - (V)	F1.1 - SURFACE (C) - (C) F1.2 - SURFACE (O) - (C) F1.3 - SURFACE (O) - (V)	G1 - HORIZONTAL - 18 INCHES G2 - HORIZONTAL - 24 INCHES G3 - HORIZONTAL - 30 INCHES G4 - HORIZONTAL - 36 INCHES G5 - HORIZONTAL - 42 INCHES G6 - VERTICAL - 18 INCHES G7 - L-SHAPED, HORIZONTAL - 42"x54" G8 - L-SHAPED, HORIZONTAL - 16"x30"	H1.1 - SEMI-RECESSED - 12 GAL. (C) - (C) H1.2 - SEMI-RECESSED - 12 GAL. (O) - (C) H1.3 - SEMI-RECESSED - 12 GAL. (O) - (V) H2.1 - SEMI-RECESSED - 18 GAL. (C) - (C) H2.2 - SEMI-RECESSED - 18 GAL. (O) - (C) H2.3 - SEMI-RECESSED - 18 GAL. (O) - (V) H3.1 - RECESSED - 12 GAL. (C) - (C) H3.2 - RECESSED - 12 GAL. (O) - (C) H3.3 - RECESSED - 12 GAL. (O) - (V)			
TOILET ACCESSORY ITEM	ITEM [J] - SOAP DISPENSER	ITEM [K] - SOAP DISH	ITEM [L] - FOLDING SHOWER SEAT	ITEM [M] - CHANGING STATION	ITEM [N] - SHELF	ITEM [P] - MIRROR	ITEM [Q] - HAND DRYER	ITEM [R] - ROBE HOOK	ITEM [S] - TOWEL BAR	ITEM [T] - SANITIZER DISPENSER	ITEM [U] - MOP & BROOM HOLDER	ITEM [V] - ROD, HOOKS AND CURTAIN
FINISH FLOOR												
TYPES	[1] SURFACE - MANUAL [2] SURFACE - AUTOMATIC [3] RECESSED - MANUAL	[1] SURFACE [2] RECESSED [3] RECESSED - CERAMIC	[1] WALL MOUNTED - PADDED [2] WALL MOUNTED - COMPOSITE	[1] SURFACE - HDPE [2] SURFACE - STAINLESS STEEL [3] RECESSED - HDPE [4] RECESSED - STAINLESS STEEL	[1] STAINLESS STEEL - 18 INCH [2] SURFACE TOWEL SHELF - 24 INCH [3] FOLDING UTILITY	[1] STAINLESS STEEL FRAME (S.S.F.) [2] S.S.F. W/ SHELF [3] TILT S.S.F.	[1] AUTOMATIC - HIGH SPEED [2] AUTOMATIC SENSOR [3] PUSH BUTTON	[1] SINGLE [2] DOUBLE	[1] 18 INCH [2] 24 INCH	[1] SURFACE - MANUAL [2] SURFACE - AUTOMATIC	[1] WITH SHELF [2] WITHOUT SHELF	[1] STRAIGHT ROD [2] CURVED ROD
DRAWING DESIGNATION	J1.1 - SURFACE - MANUAL (C) - (C) J1.2 - SURFACE - MANUAL (O) - (C) J1.3 - SURFACE - MANUAL (O) - (V)	K1 - SURFACE K2 - RECESSED K3 - RECESSED - CERAMIC	L1 - WALL - PADDED L2 - WALL - COMPOSITE	M1 - SURFACE - HDPE M2 - SURFACE - STAINLESS STEEL M3 - RECESSED - HDPE M4 - RECESSED - STAINLESS STEEL	N1 - STAINLESS STEEL - 18 INCH N2 - SURFACE TOWEL SHELF - 24 INCH N3 - FOLDING UTILITY	P1.1 - STAINLESS STEEL FRAME (S.S.F.) P1.2 - STAINLESS STEEL FRAME P2.1 - STAINLESS STEEL FRAME W/ SHELF P3.1 - TILT STAINLESS STEEL FRAME	Q1 - AUTOMATIC - HIGH SPEED Q2 - AUTOMATIC SENSOR Q3 - PUSH BUTTON	R1 - SINGLE R2 - DOUBLE	S1 - 18 INCH S2 - 24 INCH	T1.1 - SURFACE - MANUAL T1.2 - SURFACE - MANUAL T1.3 - SURFACE - MANUAL T2.1 - SURFACE - AUTOMATIC T2.2 - SURFACE - AUTOMATIC T2.3 - SURFACE - AUTOMATIC	U1 - WITH SHELF U2 - WITHOUT SHELF	V1 - STRAIGHT ROD V2 - CURVED ROD
TOILET ACCESSORY ITEM	ITEM [W] - WASH CLOTH BATH AND HAND TOWEL HOLDER	ITEM [X] - GLOVE DISPENSER	ITEM [Y] - SPECIMEN PASS THRU									
FINISH FLOOR												
TYPES	[1] TOWEL HOLDER	[1] STAINLESS STEEL - DOUBLE [2] STAINLESS STEEL - TRIPLE [3] STAINLESS STEEL - QUAD	[1] RECESSED - STAINLESS STEEL [2] RECESSED - STAINLESS STEEL (HEAVY DUTY)									
DRAWING DESIGNATION	W1 - TOWEL HOLDER	X1 - STAINLESS STEEL - DOUBLE X2 - STAINLESS STEEL - TRIPLE X3 - STAINLESS STEEL - QUAD	Y1 - RECESSED STAINLESS STEEL Y2 - RECESSED STAINLESS STEEL (HEAVY DUTY)									

NOTE:
1. ACCESSORIES CAN APPEAR ON FLOOR PLANS OR INTERIOR ELEVATIONS.
2. THE SHADED PORTIONS ARE NOT INCLUDED IN THE SCOPE OF THE WORK.
3. THE UN-SHADED PORTIONS ARE INTENDED TO BE IN THE SCOPE OF THE WORK.

HATCHING: INCLUDED IN SCOPE OF WORK NOT INCLUDED IN SCOPE OF WORK



FINISH TAG LEGEND

ROOM NAME	ROOM
ROOM NUMBER	100
FLOOR FINISH	CPTX
BASE FINISH	REX
TYP WALL FINISH	PRX
CEILING	ACT
REMARKS	1

REFER TO INTERIOR FINISH LEGEND FOR DEFINITION OF MATERIAL DESIGNATIONS

- FINISH TAG REMARKS**
- SEE FINISH PLANS & ENLARGED FLOOR PATTERN DETAILS FOR FINISH LOCATIONS.
 - SEE REFLECTED CEILING PLANS FOR FINISH LOCATIONS & HEIGHTS.
 - SEE TOILET ELEVATIONS & FINISH PLANS FOR WALL FINISH LOCATIONS.
 - SEE FINISH LEGEND FOR ELEVATOR FINISH LOCATIONS.

- GENERAL NOTES - FINISH PLAN**
- ALL GYPSUM BOARD WALLS TO BE PAINTED P-1 U N O.
 - ALL GYPSUM BOARD CEILINGS TO BE PAINTED P-4 U N O.
 - SEE SHEETS A1.40, A8.20-21, A8.20 TOILET & SHOWER PLANS / ELEVATIONS / ACCESSORIES.
 - SEE INTERIOR FINISH LEGEND FOR THRESHOLD & TRANSITION DETAILS.
 - SEE INTERIOR ELEVATIONS & MILLWORK ELEVATIONS FOR MILLWORK FINISH TYPES & LOCATIONS.
 - SEE INTERIOR ELEVATIONS & WALL PROTECTION ELEVATIONS FOR WALL PROTECTION FINISH TYPES & LOCATIONS.
 - COORDINATE ALL FLOOR DRAINS, SINKS & CLEAN OUTS W/ PLUMBING - IF DISCREPANCIES OCCUR NOTIFY ARCHITECT.
 - WELDING ROD AT WELDED SEAMS SHALL MATCH THE DARKER OF THE COLORS AT SEAMS THAT DIVIDE TWO COLORS U.N.D.
 - ALL RUBBER BASE TO EXTEND TO WALL BEHIND EQUIPMENT REGARDLESS OF EQUIPMENT ELEVATION & ROTATION.
 - ALL FLOOR FINISHES TO EXTEND UNDERNEATH MILLWORK.
 - MANUAL WINDOW SHADES TO BE PROVIDED AT ALL EXTERIOR WINDOW LOCATIONS U.N.O.
 - COORDINATE ALL FLOOR RECEPTACLES W/ ELECTRICAL - IF DISCREPANCIES OCCUR NOTIFY ARCHITECT.

FINISH MATERIALS LEGEND

AT	ACCENT TILE	PL	PLASTIC LAMINATE
CG	CORNER GUARD	PTF	PORCELAIN FLOOR TILE
CH	CHAIR RAIL	PTW	PORCELAIN WALL TILE
CPT	CARPET	RB	RUBBER BASE
DH	DOOR HARDWARE	RF	RUBBER FLOOR
ECS	EXPOSED CONCRETE - SEALED	RSF	RUBBER SPORTS FLOORING
EG	END GUARD	SA	SUSPENDED ACCOUSTIC
EM	ENTRY MAT	SB	SANITARY BASE
G	GROUT	SS	SOLID SURFACE
GYP	GYPSUM BOARD	T	TRANSITIONS
HWC	HIGH IMPACT WALL COVERING	TH	THRESHOLDS
HM	HOLLOW METAL	TP	TOILET PARTITIONS
HSF	HETEROGENEOUS SHEET FLOORING	TR	TRIM
IB	INTEGRAL BASE	WD	WOOD DOOR
MB	METAL BASE	WDP	WOOD PANELING
P	PAINT	WS	WINDOW SHADES

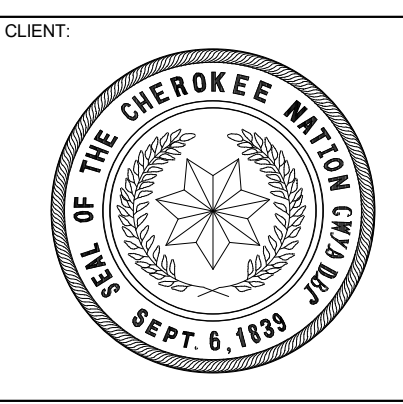
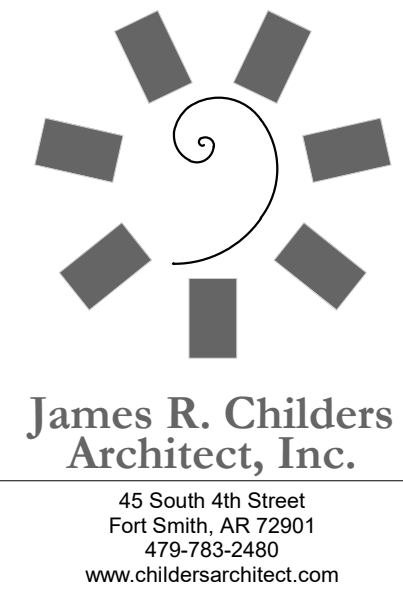
FLOOR PATTERN LEGEND

HSF	HETEROGENEOUS SHEET FLOORING
RF	RUBBER FLOORING
CPT	CARPET TILE
EM	ENTRY MAT
RSF	RUBBER SPORTS FLOOR
ECS	EXPOSED CONCRETE - SEALED
PTF-1	PORCELAIN FLOOR TILE
PTF-2	PORCELAIN FLOOR TILE

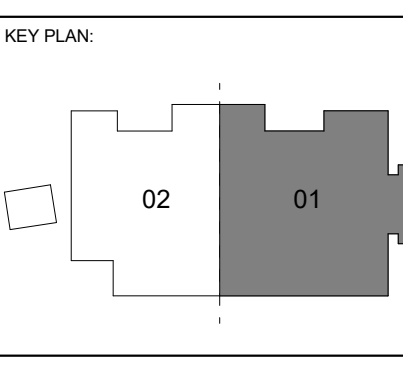
THRESHOLD & TRANSITION LEGEND

TH1	METAL THRESHOLD
TH2	MARBLE THRESHOLD
T1	METAL TRANSITION
T2	METAL TRANSITION
T3	METAL TRANSITION
T4	METAL TRANSITION
T5	METAL TRANSITION
T6	METAL TRANSITION
T7	METAL TRANSITION
T8	METAL TRANSITION

01 ENLARGED FINISH PLAN - LEVEL 02 SECTOR 01
1/8" = 1'-0"



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EXPANSION**
STILWELL, OKLAHOMA



PROJECT PHASE:
BID PACKAGE 02

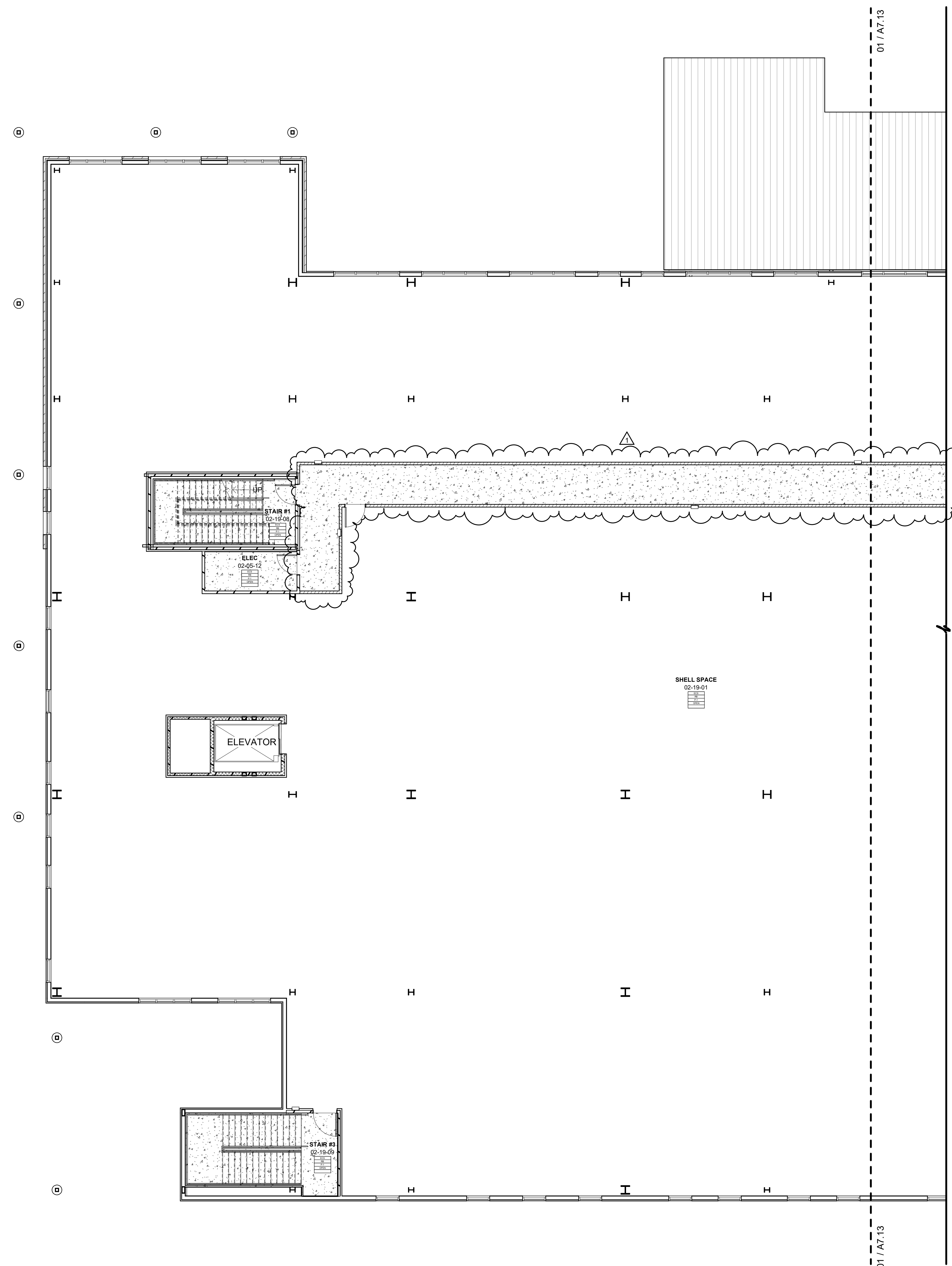
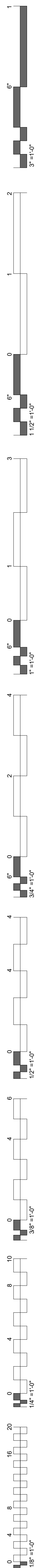
REVISIONS

#	DATE	DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 01

DATE: 12-06-19
JOB NUMBER: 18-01.01

SHEET NUMBER:
A7.13

FINISH PLAN LEVEL 02
SECTOR 01



FINISH TAG LEGEND

ROOM NAME	ROOM
ROOM NUMBER	100
FLOOR FINISH	CPTX
BASE FINISH	RBX
TYP WALL FINISH	FXK
CEILING	ACT
REMARKS	1

REFER TO INTERIOR FINISH LEGEND FOR DEFINITION OF MATERIAL DESIGNATIONS

- FINISH TAG REMARKS**
- SEE FINISH PLANS & ENLARGED FLOOR PATTERN DETAILS FOR FINISH LOCATIONS.
 - SEE REFLECTED CEILING PLANS FOR FINISH LOCATIONS & HEIGHTS
 - SEE TOILET ELEVATIONS & FINISH PLANS FOR WALL FINISH LOCATIONS.
 - SEE FINISH LEGEND FOR ELEVATOR FINISH LOCATIONS.

- GENERAL NOTES - FINISH PLAN**
- ALL GYPSUM BOARD WALLS TO BE PAINTED P-1 U.N.O.
 - ALL GYPSUM BOARD CEILINGS TO BE PAINTED P-4 U.N.O.
 - SEE SHEETS A1-40, A2-20/21, A2-20 TOILET & SHOWER PLANS / ELEVATIONS / ACCESSORIES
 - SEE INTERIOR FINISH LEGEND FOR THRESHOLD & TRANSITION DETAILS.
 - SEE INTERIOR ELEVATIONS & MILLWORK ELEVATIONS FOR MILLWORK FINISH TYPES & LOCATIONS.
 - SEE INTERIOR ELEVATIONS & WALL PROTECTION ELEVATIONS FOR WALL PROTECTION FINISH TYPES & LOCATIONS.
 - COORDINATE ALL FLOOR DRAINS, SINKS & CLEAN OUTS W/ PLUMBING - IF DISCREPANCIES OCCUR NOTIFY ARCHITECT.
 - WELDING ROD AT WELDED SEAMS SHALL MATCH THE DARKER OF THE COLORS AT SEAMS THAT DIVIDE TWO COLORS U.N.O.
 - ALL RUBBER BASES TO EXTEND TO WALL BEHIND EQUIPMENT REGARDLESS OF EQUIPMENT ELEVATION & ROTATION.
 - ALL FLOOR FINISHES TO EXTEND UNDERNEATH MILLWORK.
 - MANUAL WINDOW SHADES TO BE PROVIDED AT ALL EXTERIOR WINDOW LOCATIONS U.N.O.
 - COORDINATE ALL FLOOR RECEPTACLES W/ ELECTRICAL - IF DISCREPANCIES OCCUR NOTIFY ARCHITECT.

FINISH MATERIALS LEGEND

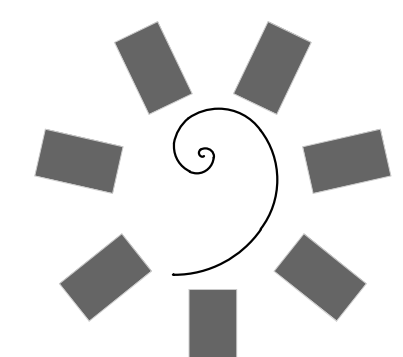
AT	ACCENT TILE	PL	PLASTIC LAMINATE
CG	CORNER GUARD	PTF	PORCELAIN FLOOR TILE
CH	CHAIR RAIL	PTW	PORCELAIN WALL TILE
CPT	CARPET	RB	RUBBER BASE
DH	DOOR HARDWARE	RF	RUBBER FLOOR
ECS	EXPOSED CONCRETE - SEALED	RSF	RUBBER SPORTS FLOORING
EG	END GUARD	SA	SUSPENDED ACCOUSTIC
EM	ENTRY MAT	SB	SANITARY BASE
G	GROUT	SS	SOLID SURFACE
GYP	GYPSUM BOARD	T	TRANSITIONS
HWC	HIGH IMPACT WALL COVERING	TH	THRESHOLDS
HM	HOLLOW METAL	TP	TOILET PARTITIONS
HSF	HETEROGENEOUS SHEET FLOORING	TR	TRIM
IB	INTEGRAL BASE	WD	WOOD DOOR
MB	METAL BASE	WDP	WOOD PANELING
P	PAINT	WS	WINDOW SHADES

FLOOR PATTERN LEGEND

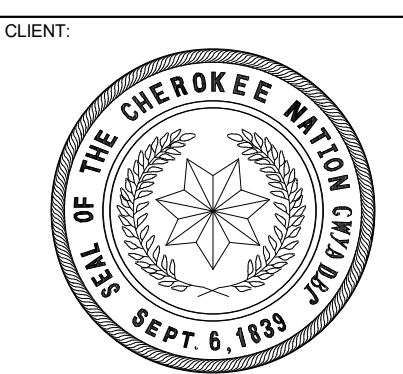
HSF	HETEROGENEOUS SHEET FLOORING
RF	RUBBER FLOORING
CPT	CARPET TILE
EM	ENTRY MAT
RSF	RUBBER SPORTS FLOOR
ECS	EXPOSED CONCRETE - SEALED
PTF-1	PORCELAIN FLOOR TILE
PTF-2	PORCELAIN FLOOR TILE

THRESHOLD & TRANSITION LEGEND

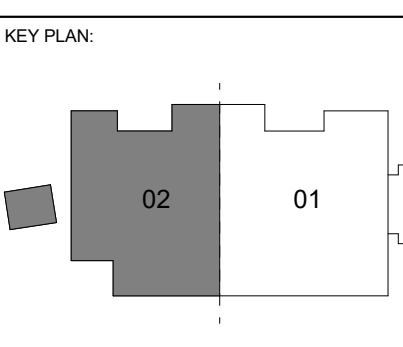
TH1	METAL THRESHOLD
TH2	MARBLE THRESHOLD
T1	METAL TRANSITION
T2	METAL TRANSITION
T3	METAL TRANSITION
T4	METAL TRANSITION
T5	METAL TRANSITION
T6	METAL TRANSITION
T7	METAL TRANSITION
T8	METAL TRANSITION



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**WILMA P. MANKILLER HEALTH CENTER
 EXPANSION**
 STILWELL, OKLAHOMA



PROJECT PHASE
BID PACKAGE 02

REVISIONS

#	DATE	DESCRIPTION
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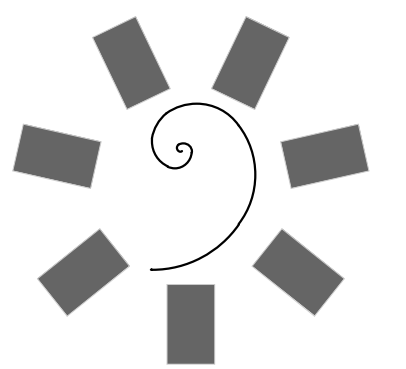
DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
A7.14

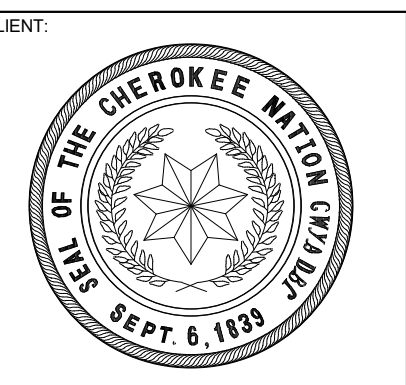
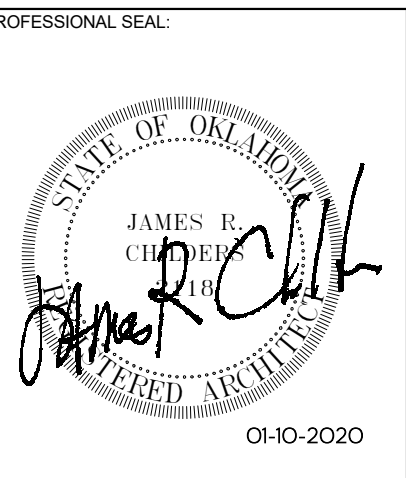
FINISH PLAN LEVEL 02
 SECTOR 02

01 ENLARGED FINISH PLAN - LEVEL 02 SECTOR 02
 1/8" = 1'-0"

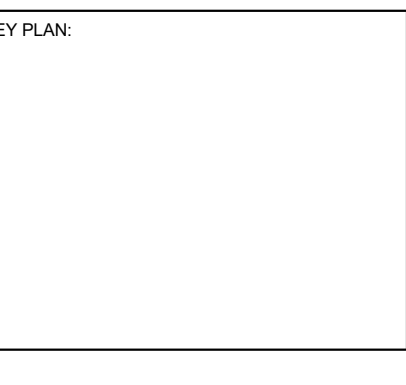
PLAN NORTH TRUE NORTH



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WILMA P. MANKILLER HEALTH CENTER
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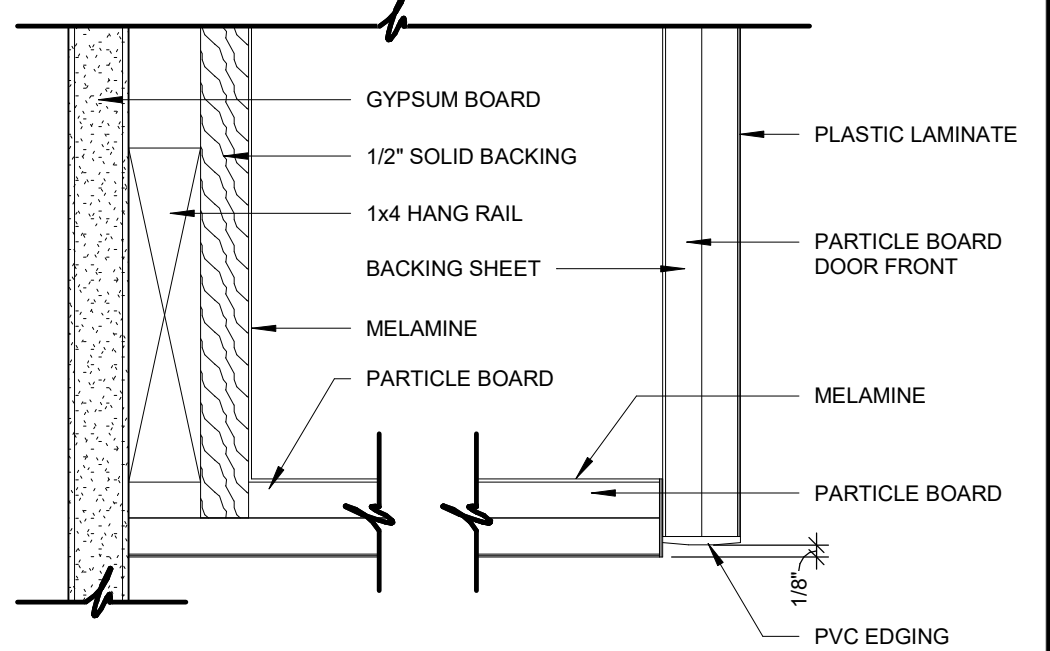


PROJECT PHASE:
BID PACKAGE 02

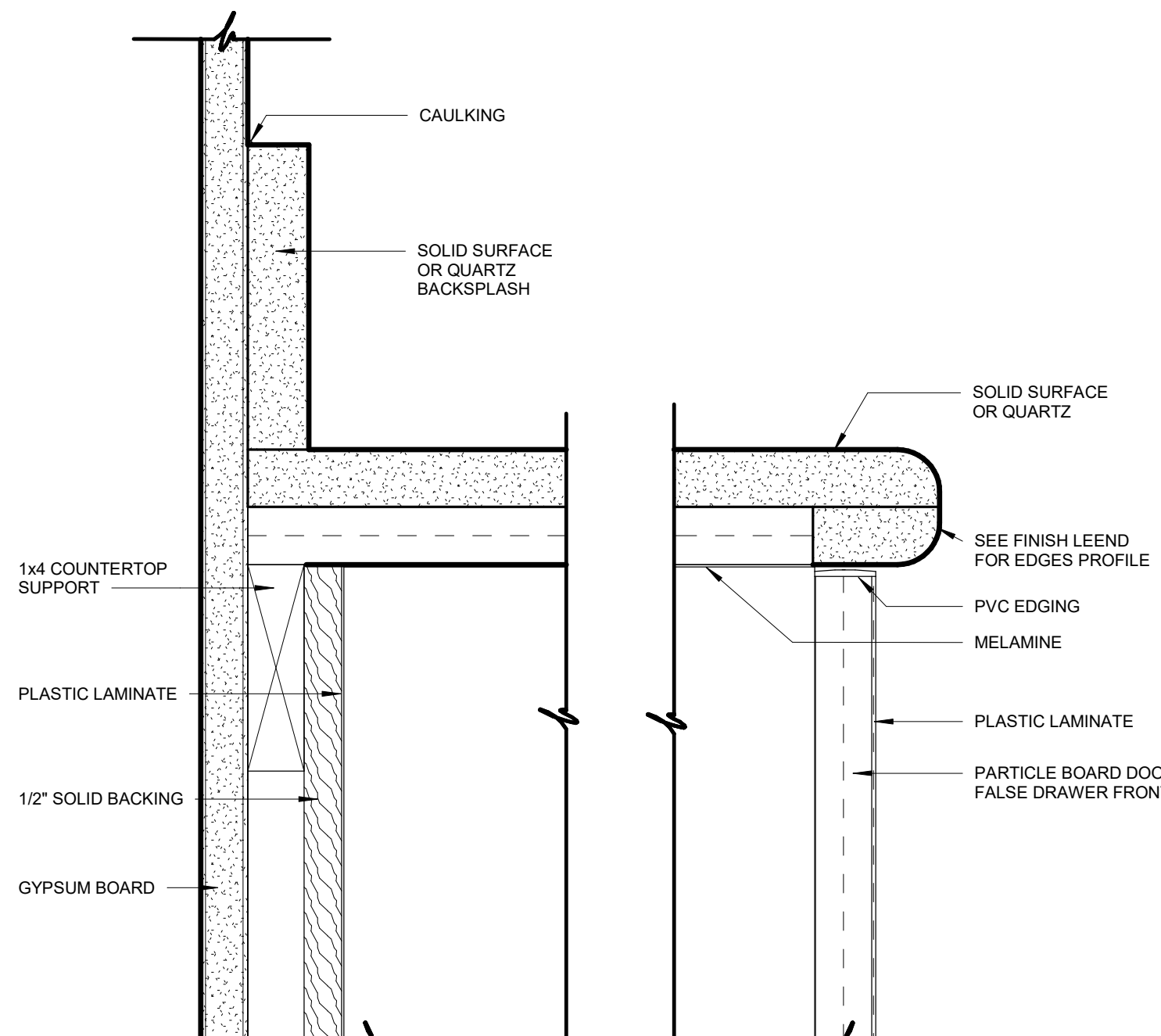
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1	1/19/20	BID PACKAGE 02 - ADD 91	

JOB NUMBER:
12-06-19 18-01.01

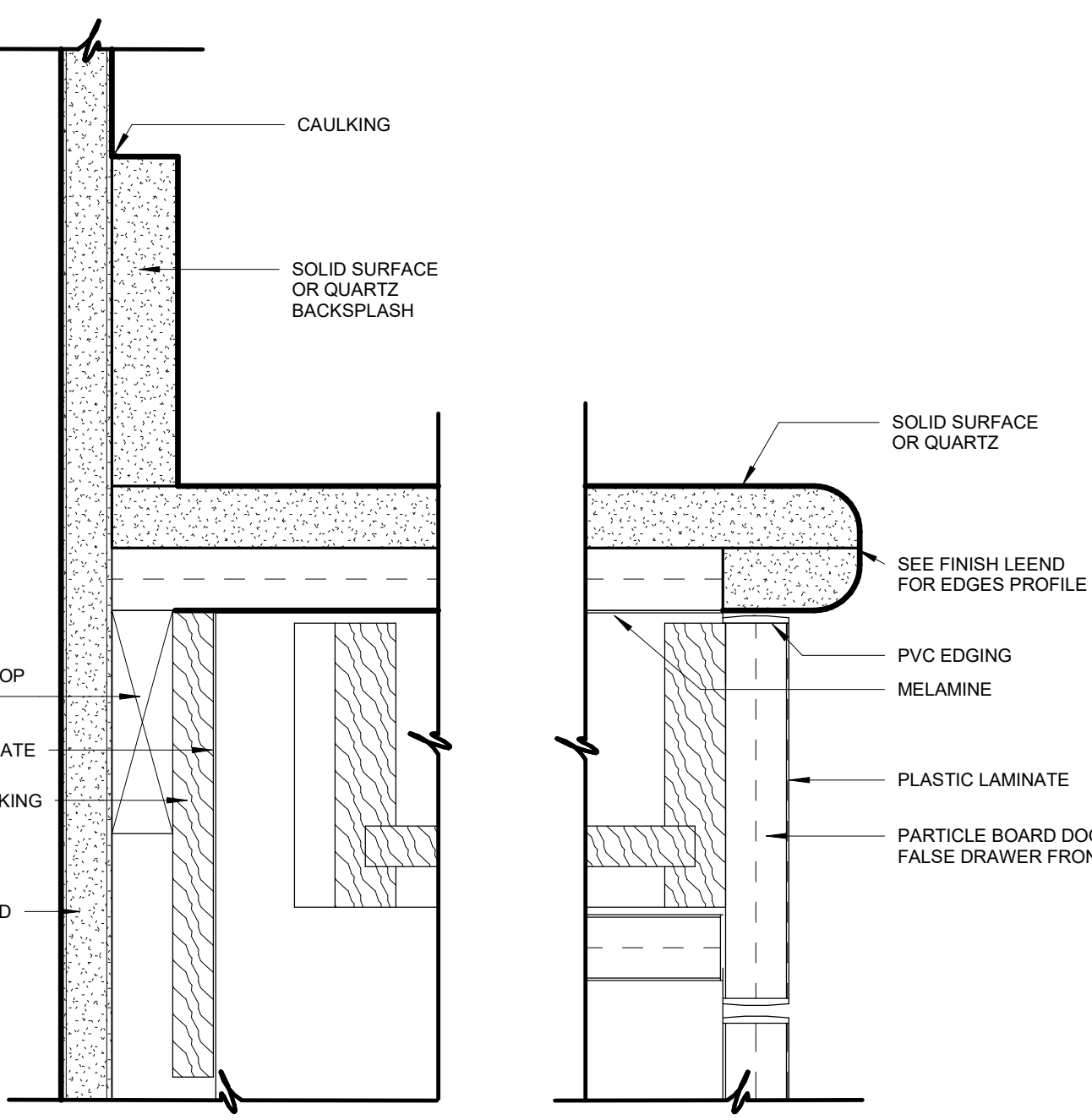
SHEET NUMBER:
A8.31
MILLWORK DETAILS



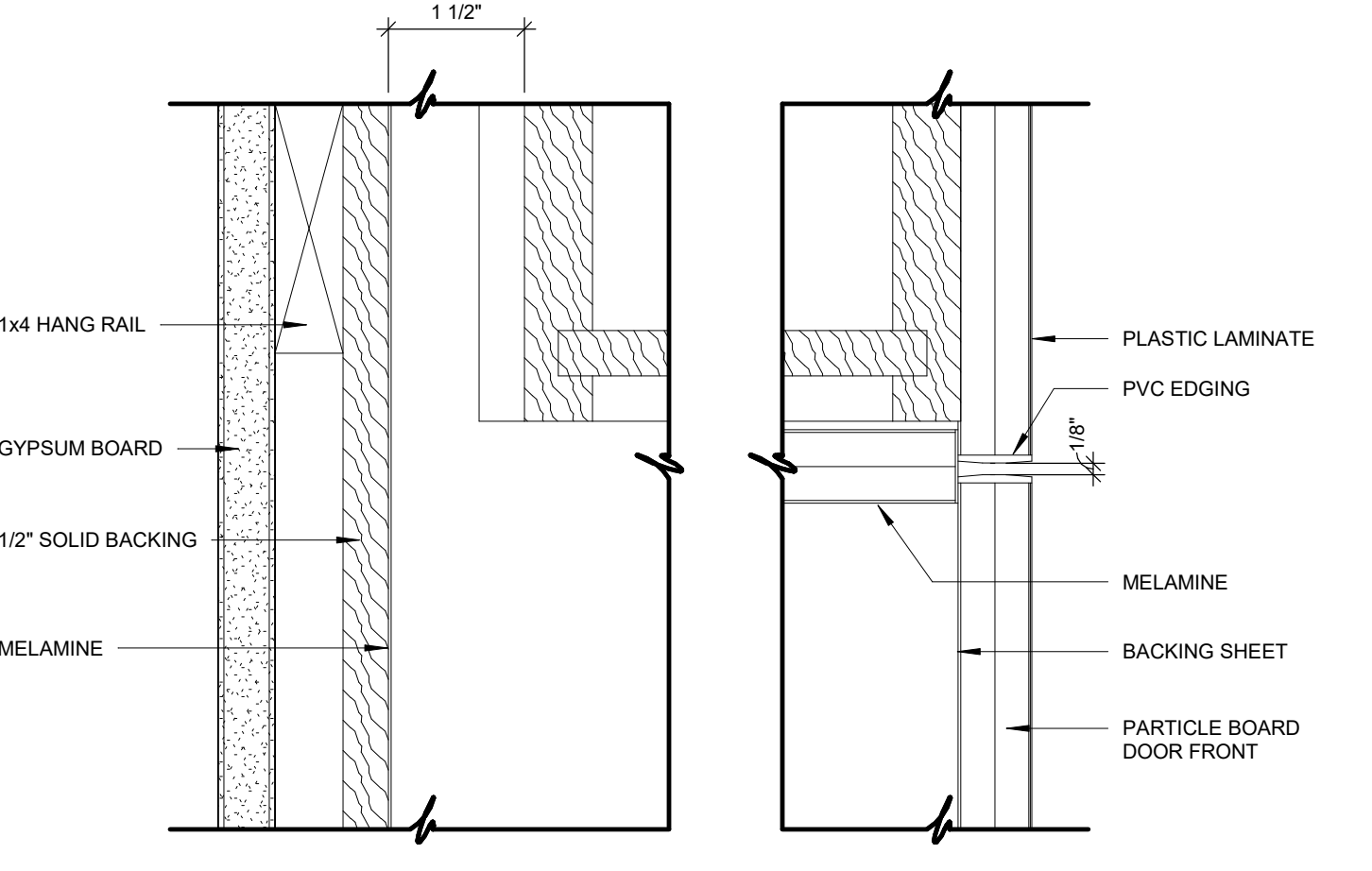
17 WALL CABINET AT BOTTOM
6" = 1'-0"



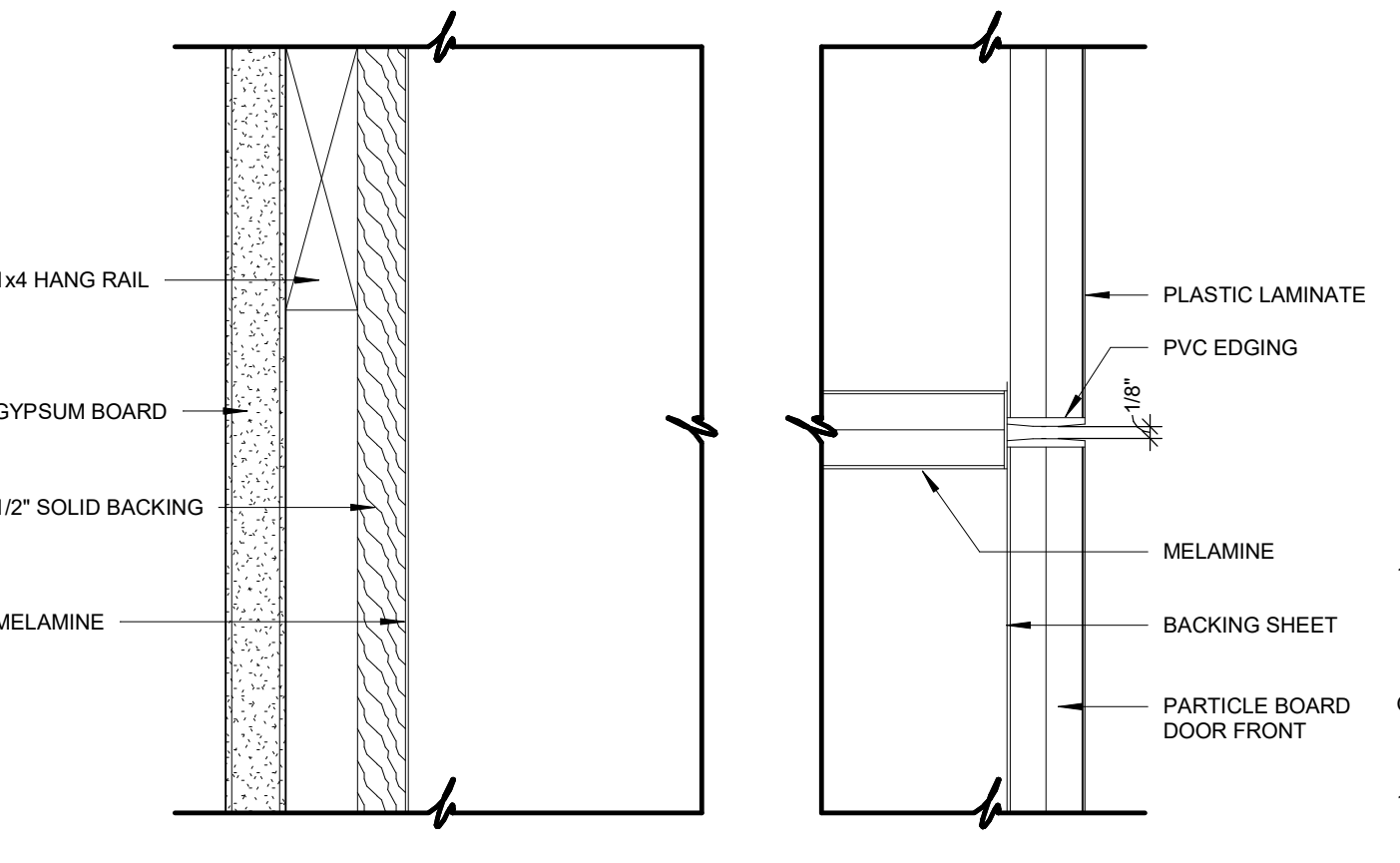
18 COUNTERTOP AT DOOR
6" = 1'-0"



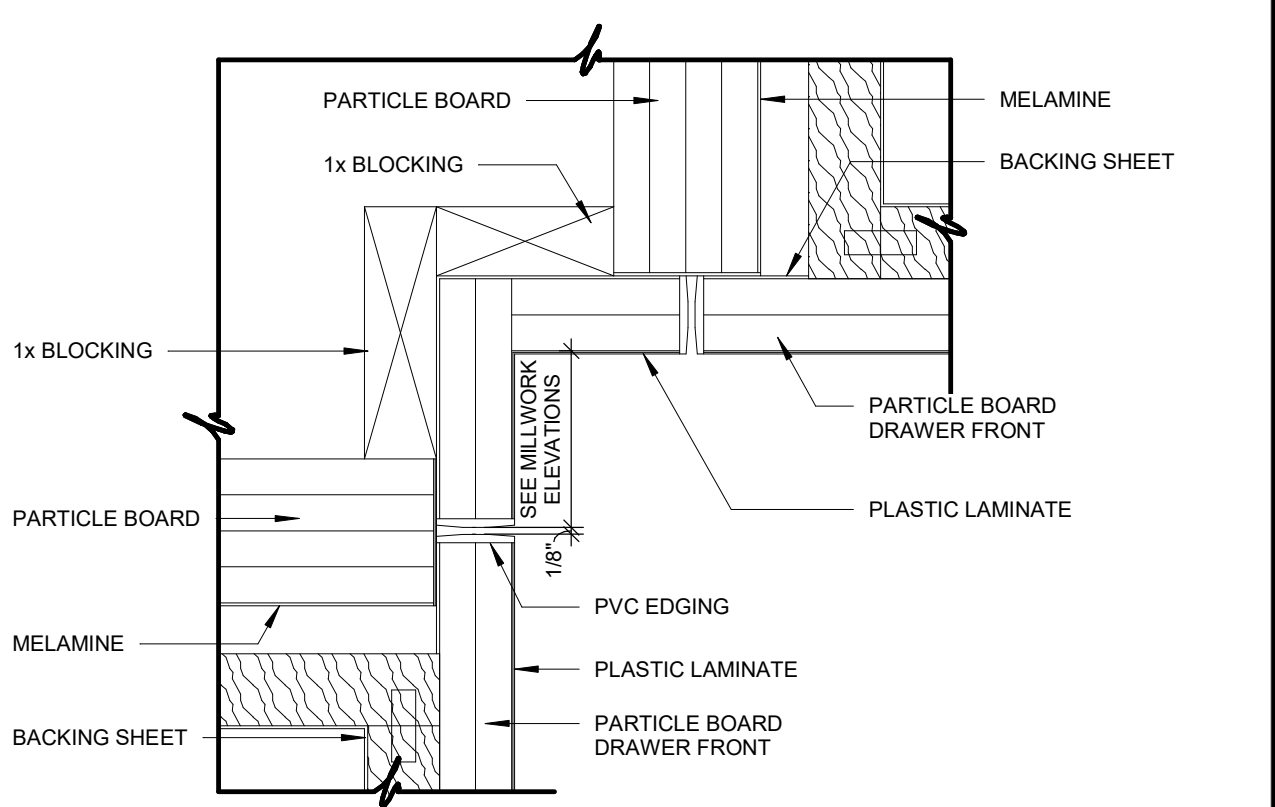
19 COUNTERTOP AT DRAWER
6" = 1'-0"



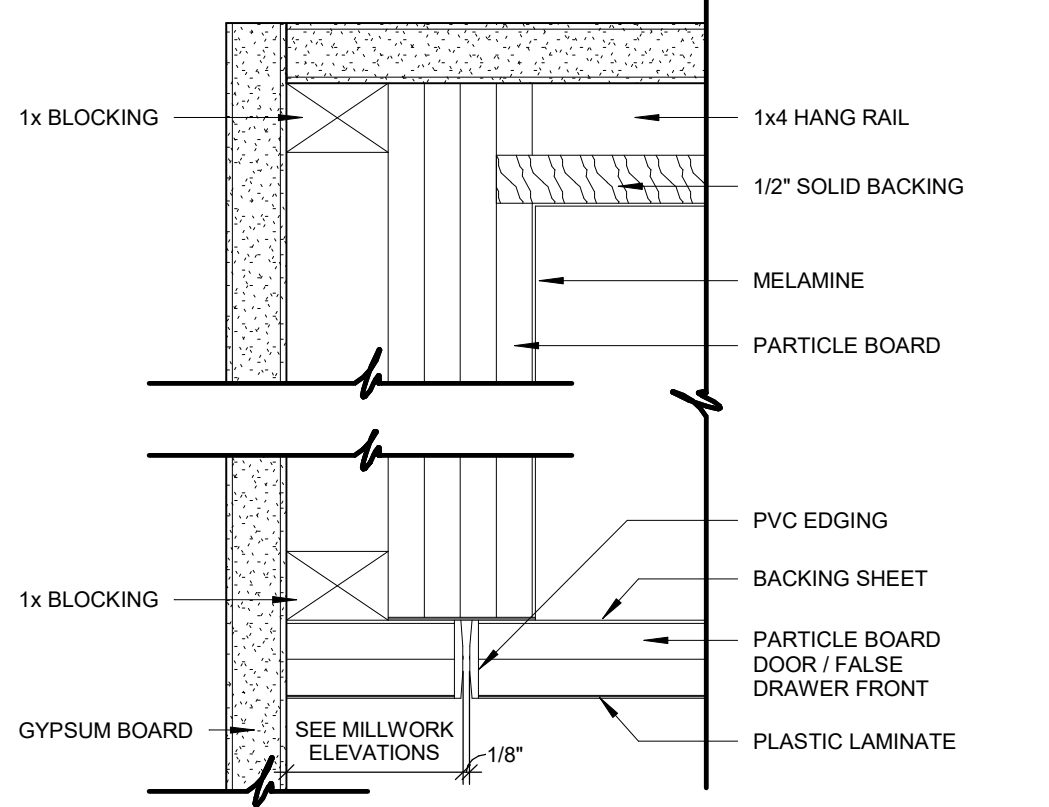
20 DRAWER TO DOOR SECTION
6" = 1'-0"



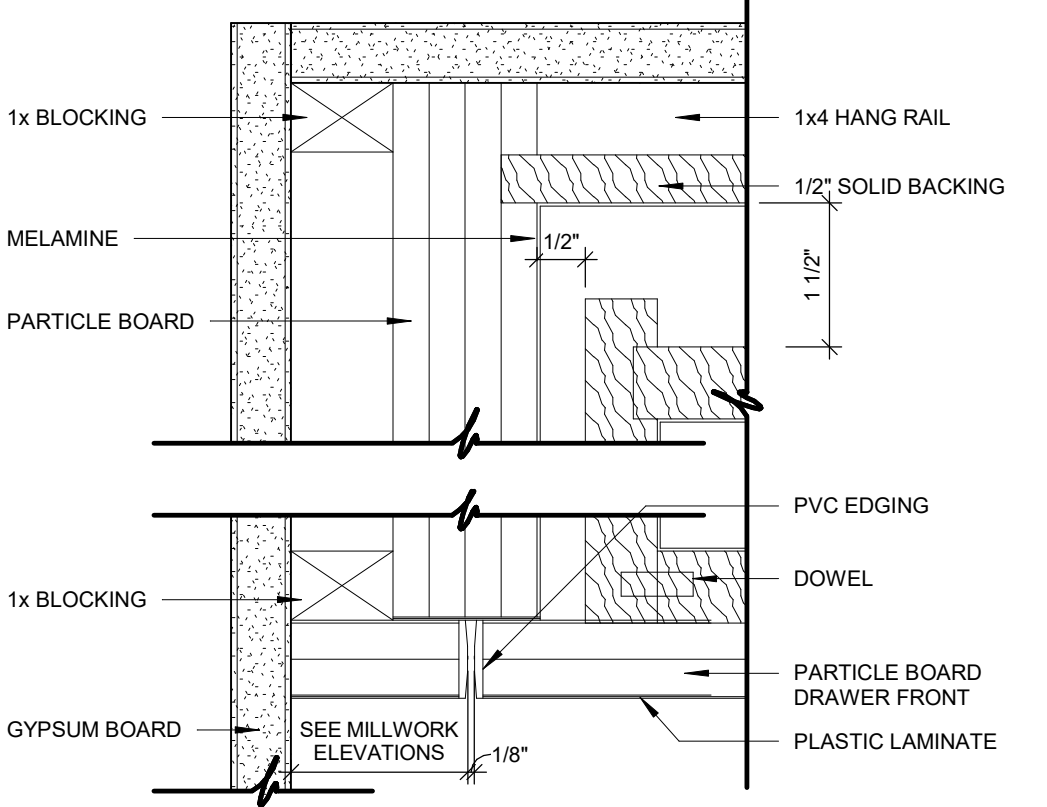
21 FALSE DRAWER TO DOOR SECTION
6" = 1'-0"



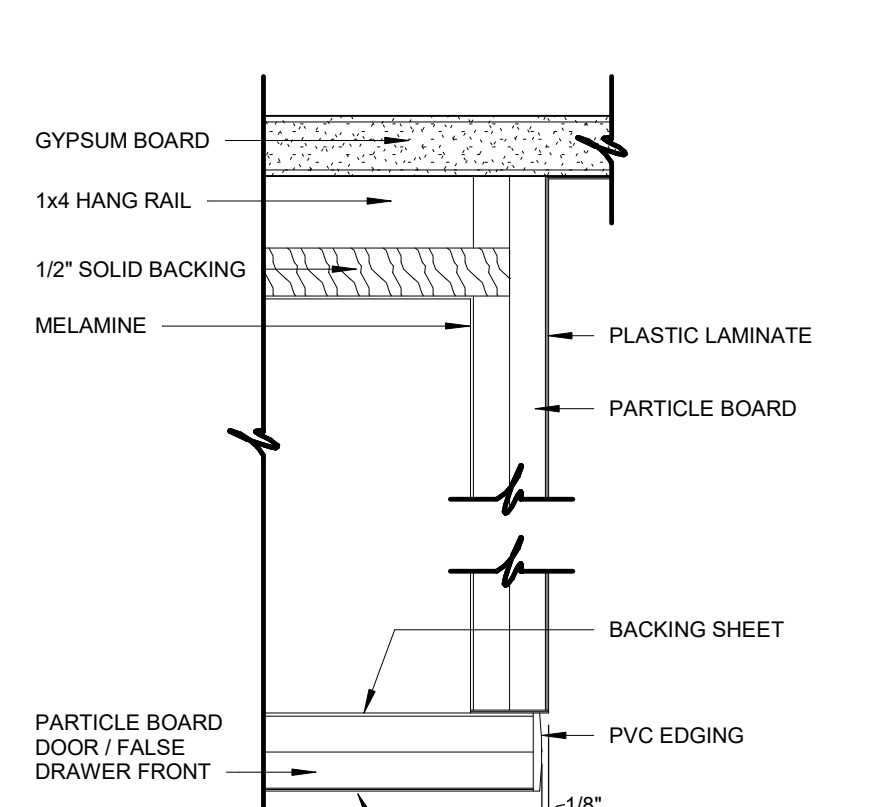
11 DRAWER SECTIONS AT CORNER
6" = 1'-0"



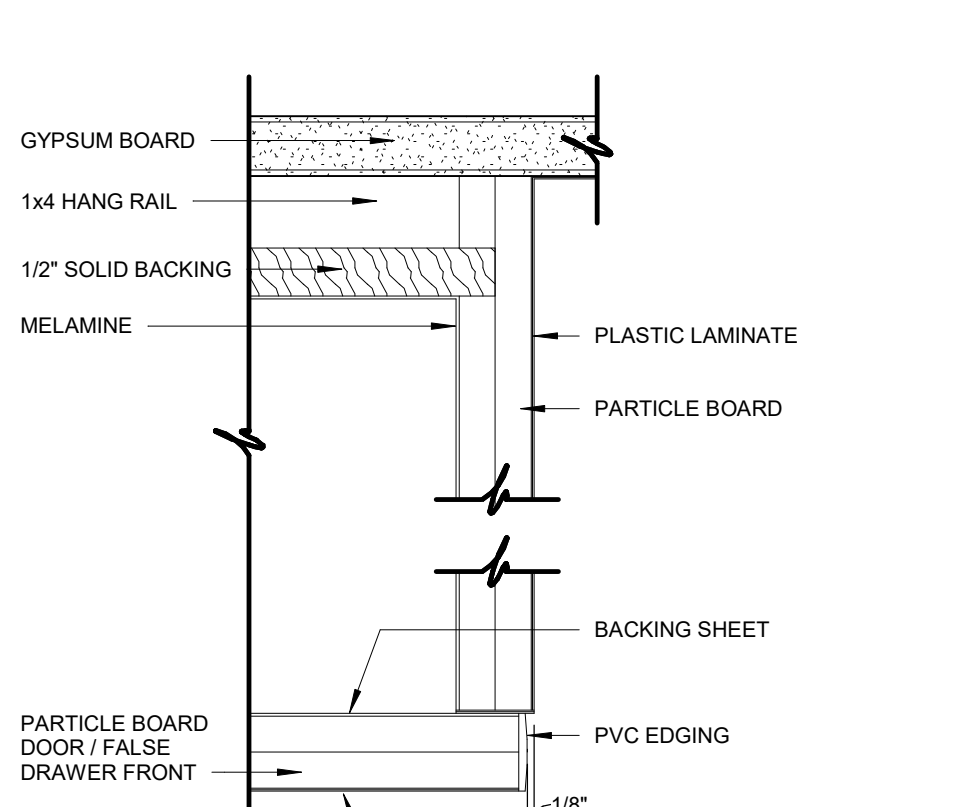
12 DOOR SECTION
6" = 1'-0"



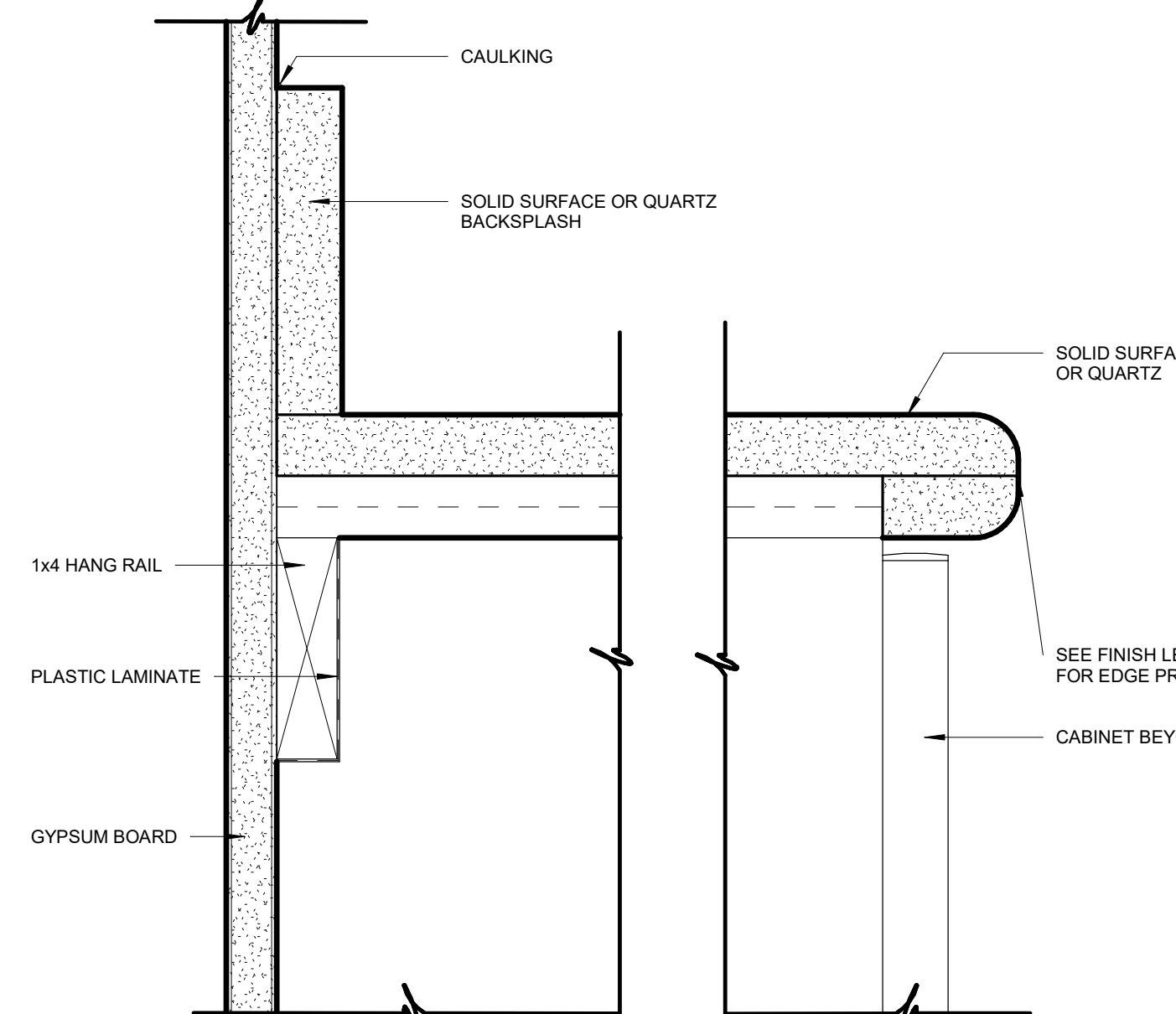
13 DRAWER SECTION
6" = 1'-0"



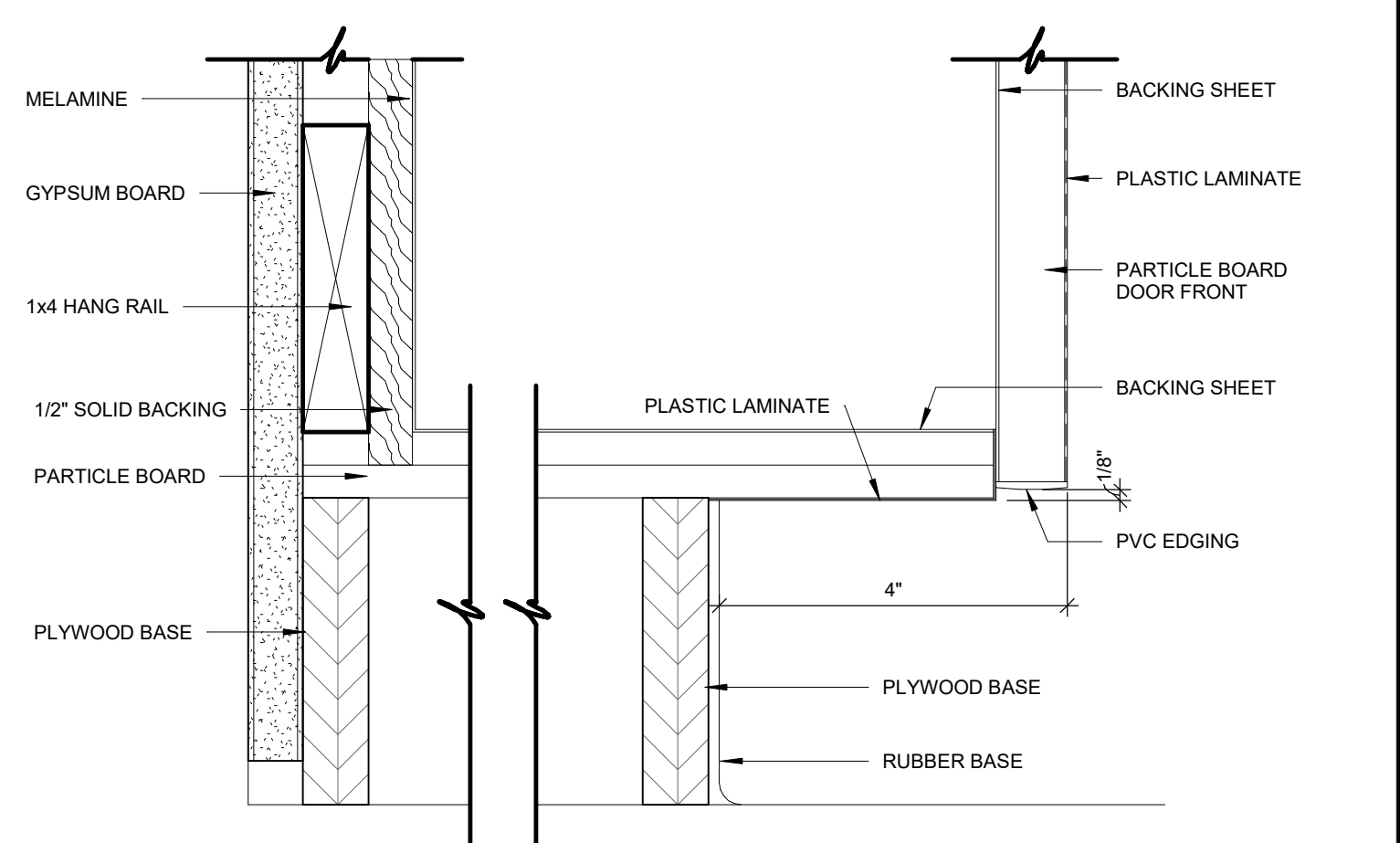
14 DOOR AT FINISHED END SECTION
6" = 1'-0"



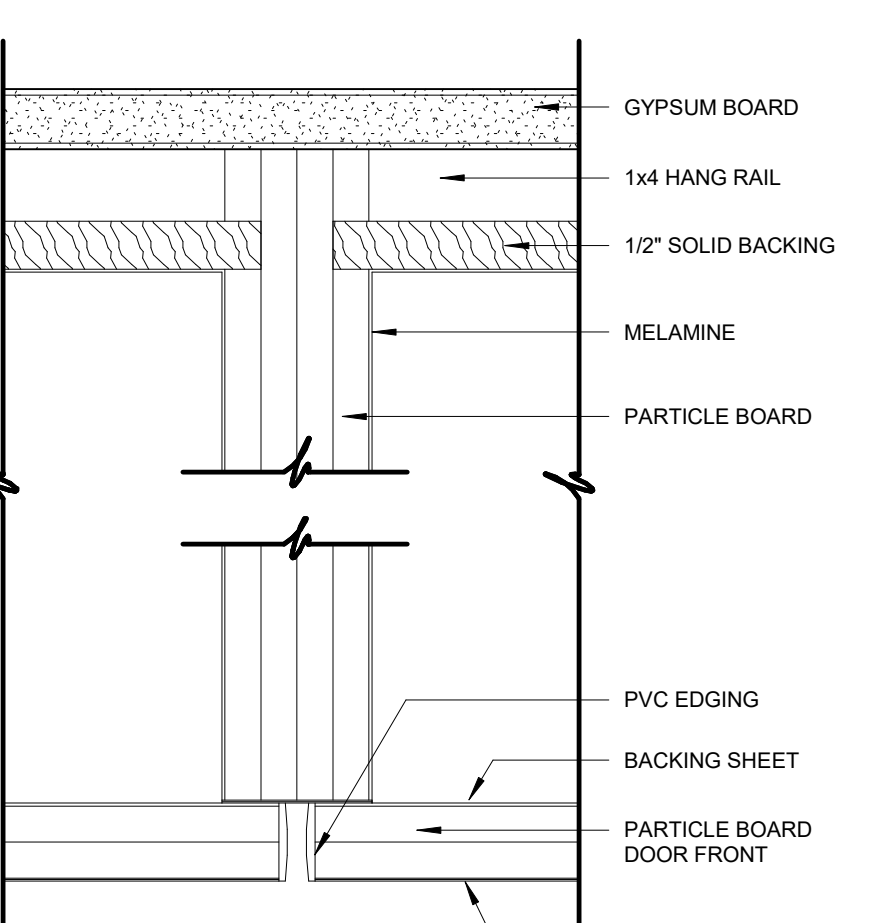
15 DRAWER AT FINISHED END SECTION
6" = 1'-0"



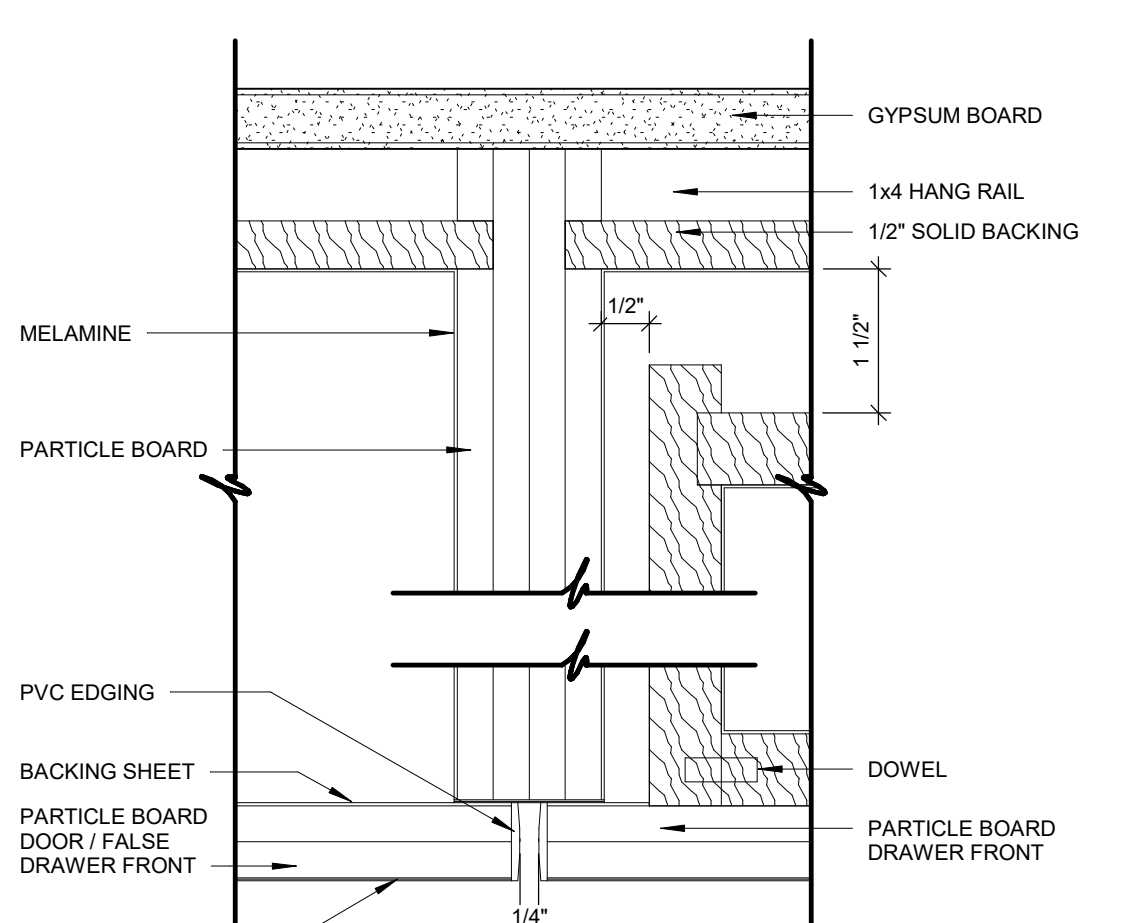
16 COUNTERTOP AT KNEESPACE
6" = 1'-0"



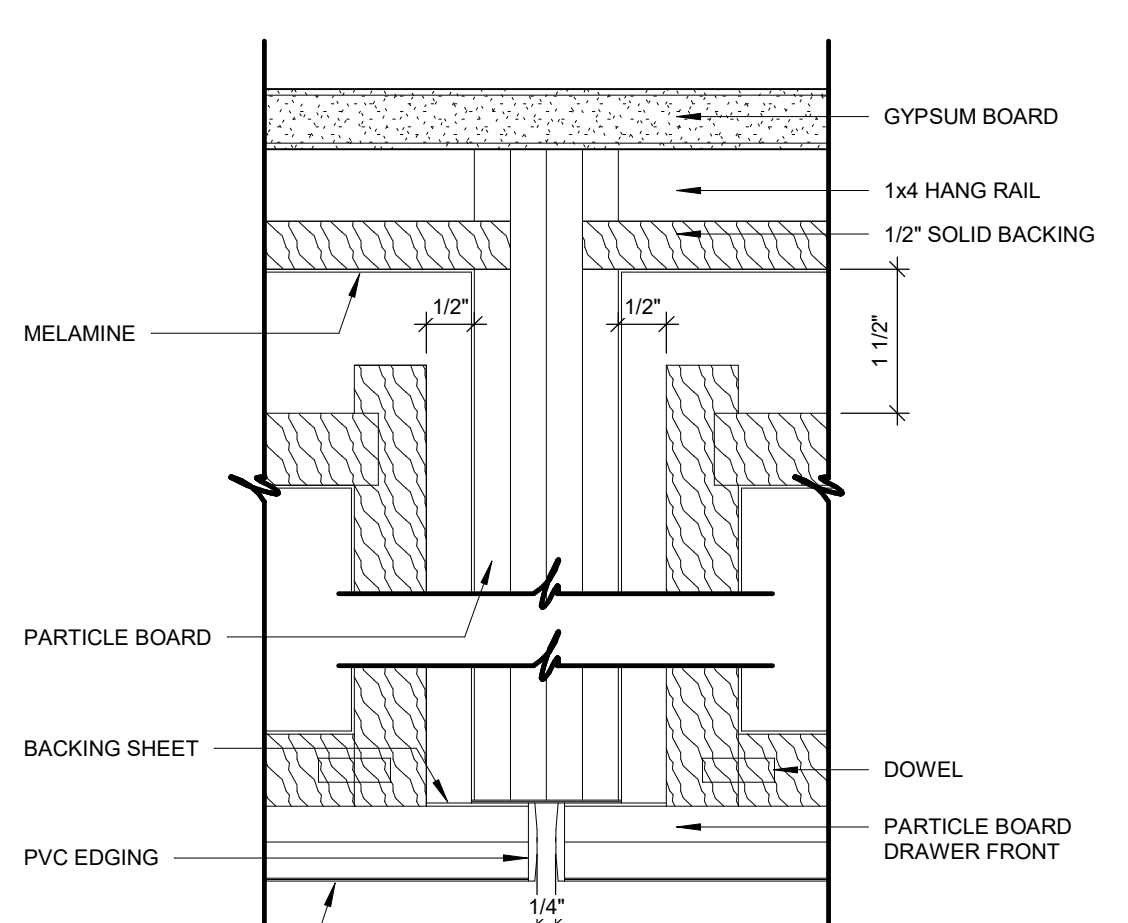
06 BASE CABINET AT FLOOR
6" = 1'-0"



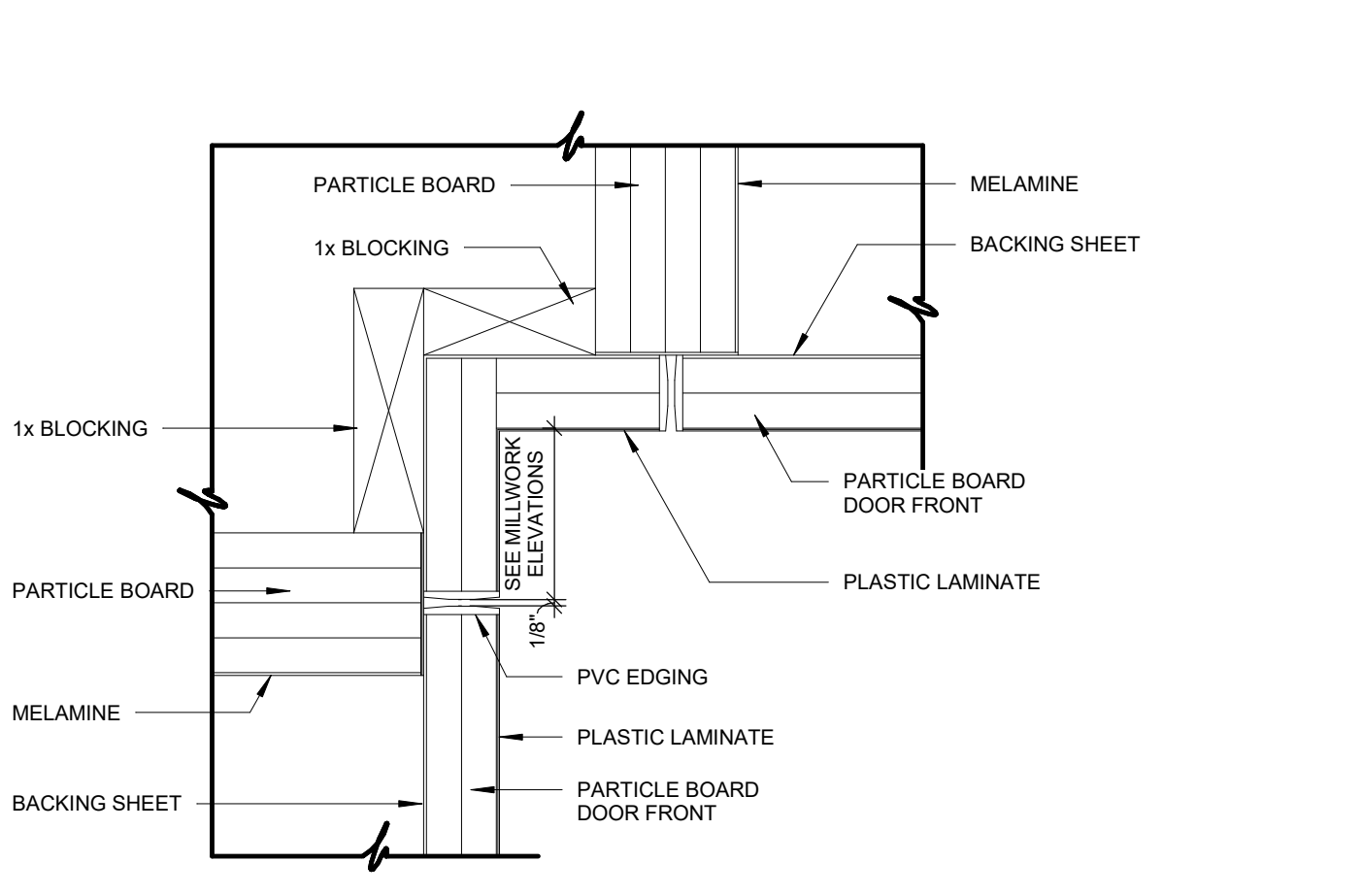
07 CABINET TO CABINET SECTION
6" = 1'-0"



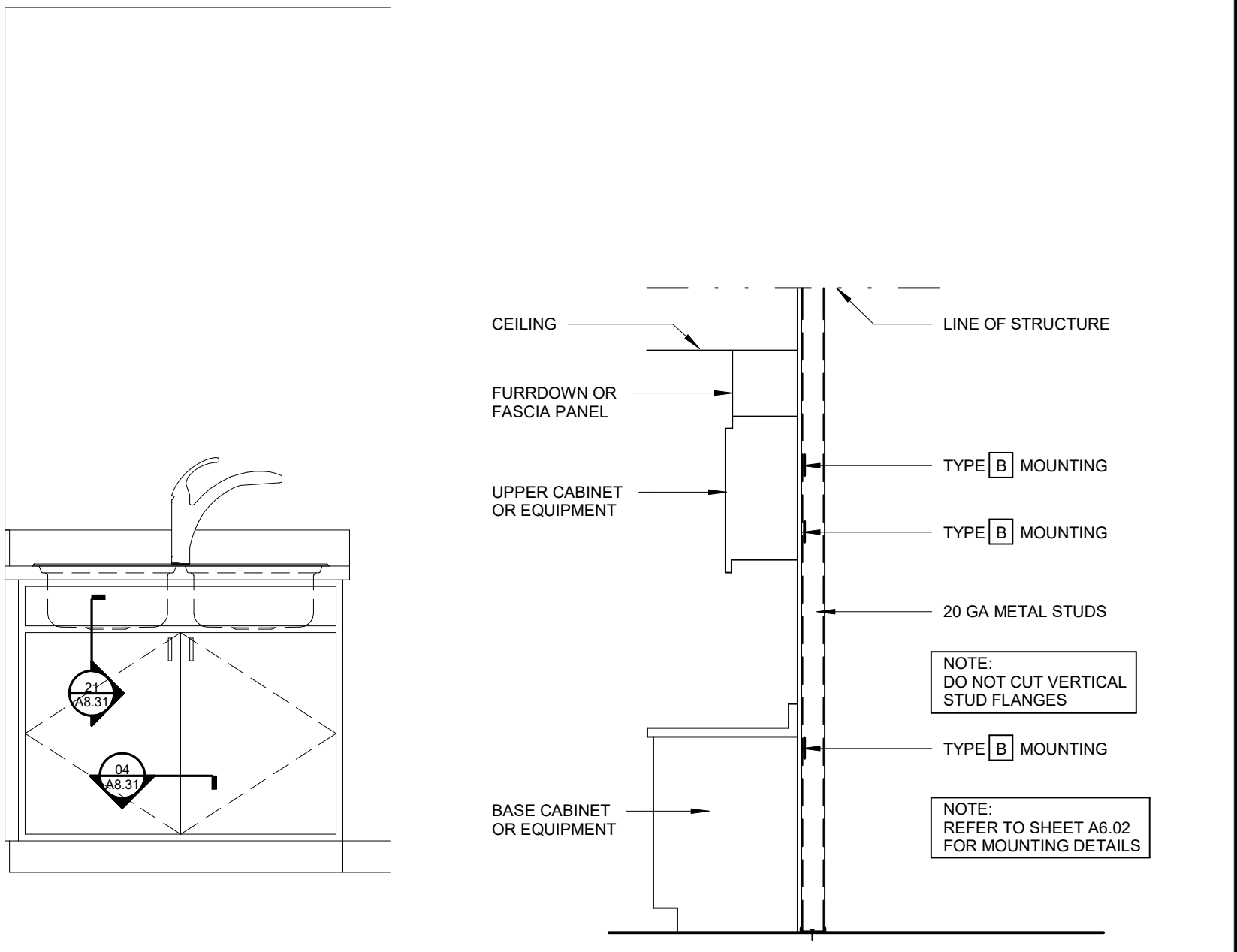
08 CABINET TO CABINET SECTION
6" = 1'-0"



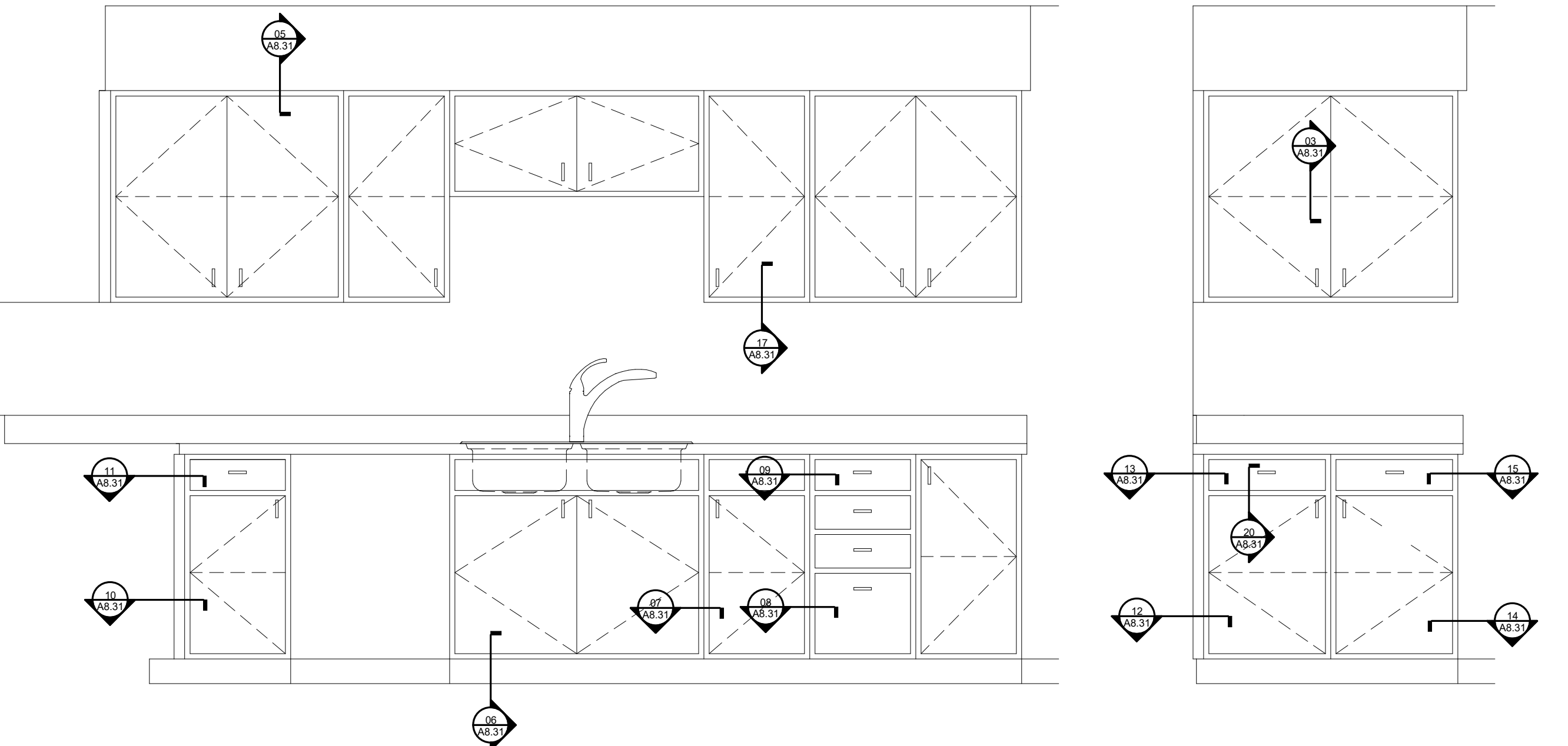
09 CABINET TO CABINET SECTION
6" = 1'-0"



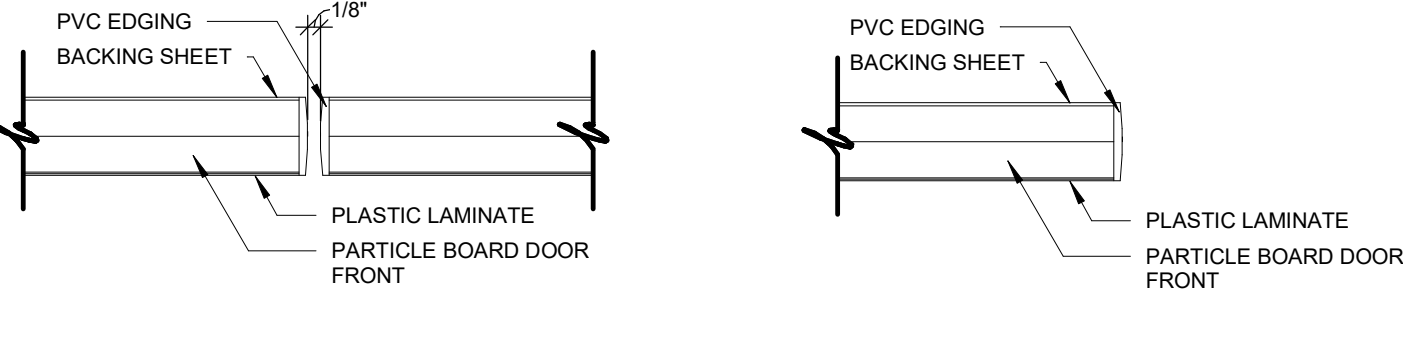
10 DOOR SECTIONS AT CORNER
6" = 1'-0"



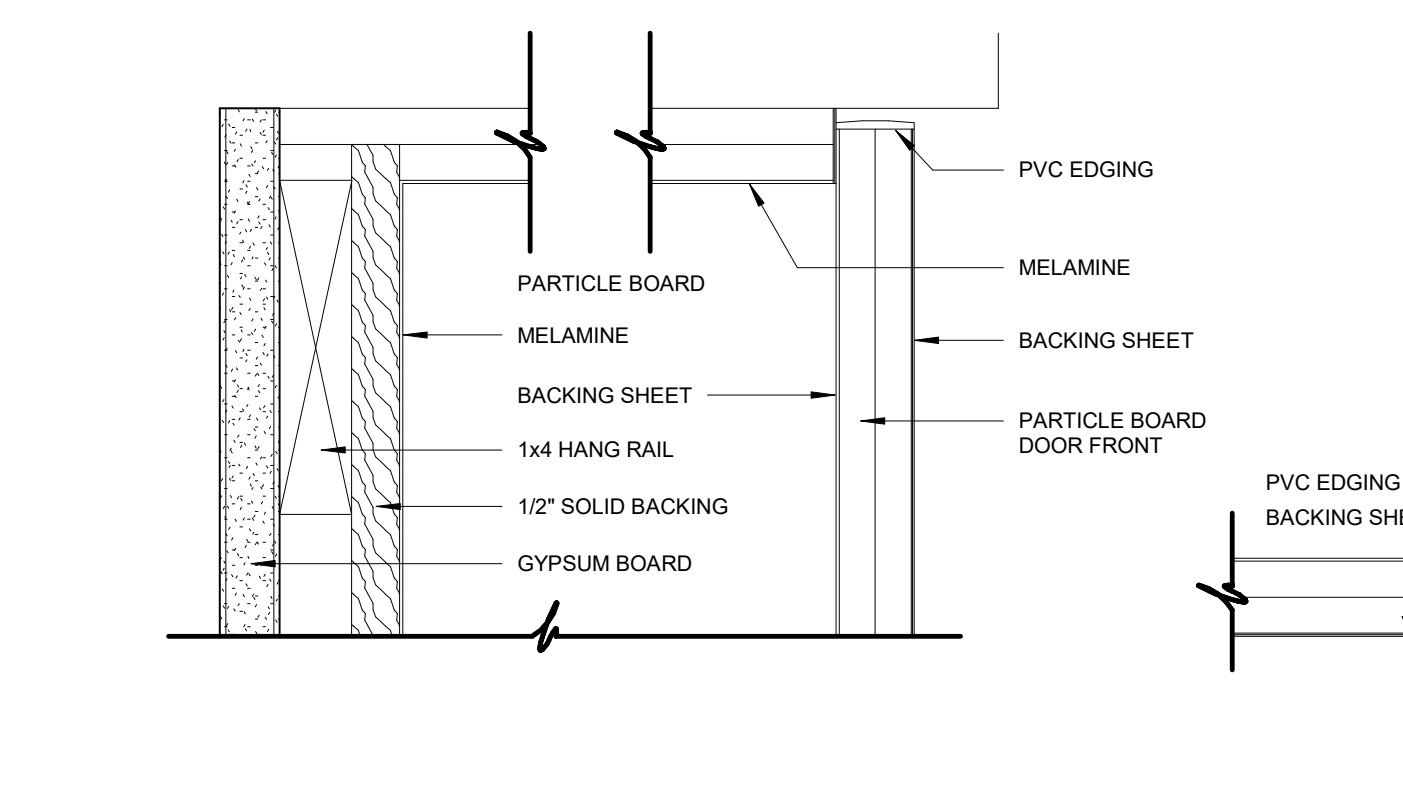
01 TYPICAL STUD WALL SUPPORTING EQUIPMENT AND CABINETRY
1/4" = 1'-0"



02 MILLWORK DETAIL KEY (GENERIC ELEVATIONS)
3/4" = 1'-0"



03 SHELF SECTION
6" = 1'-0"



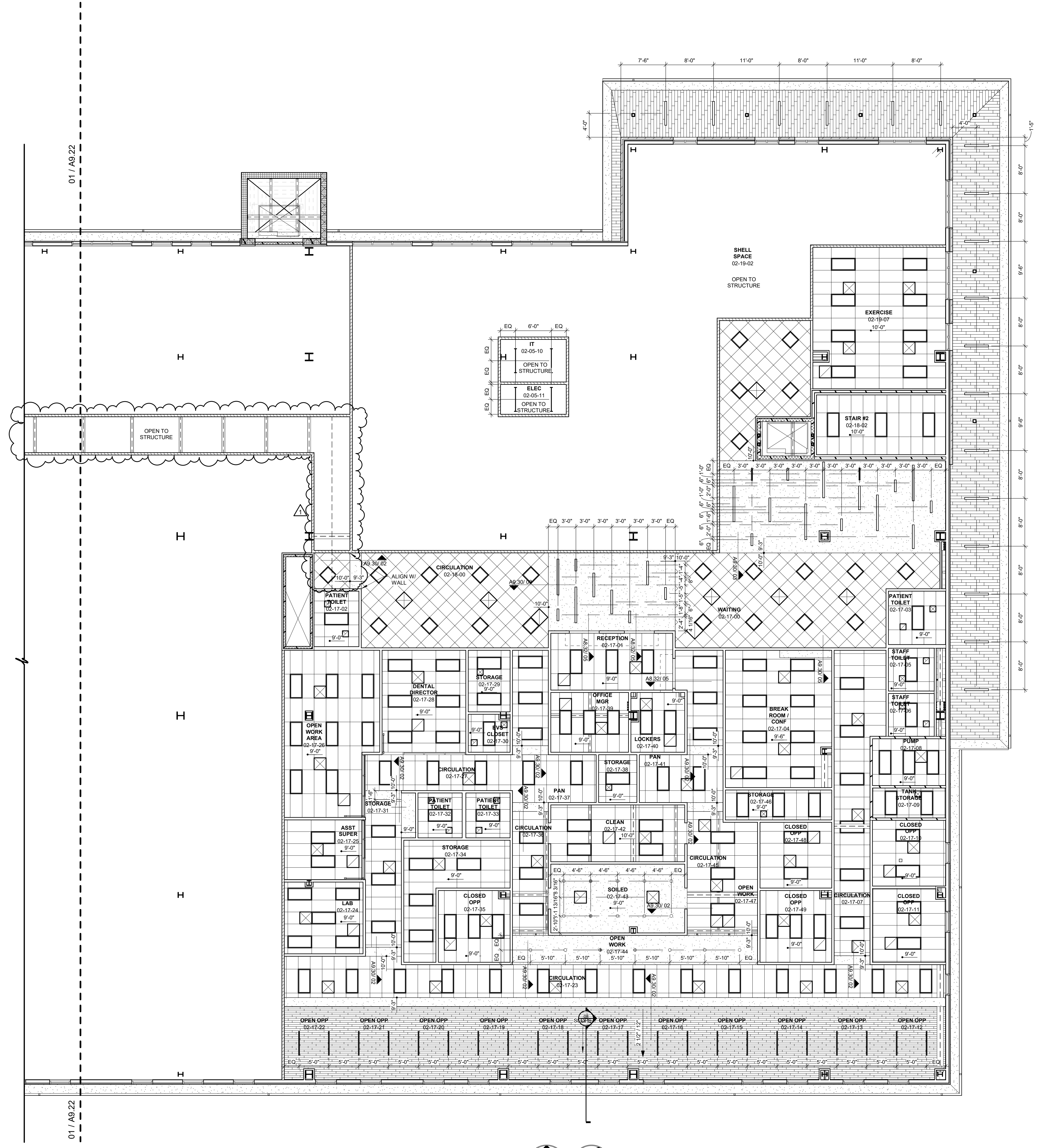
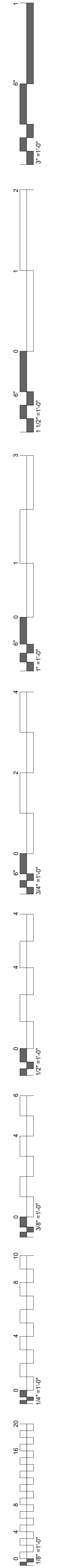
04 DOOR TO DOOR SECTION
6" = 1'-0"



05 WALL CABINET AT FURR DOWN
6" = 1'-0"

NOTE: 1" PARTICLE BOARD SHELF AT SPANS GREATER THAN 5'-0"

NOTE: REFER TO SHEET A8.02 FOR MOUNTING DETAILS



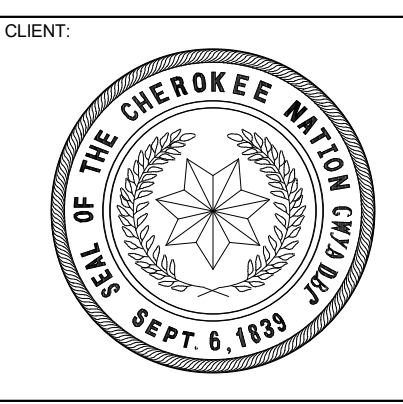
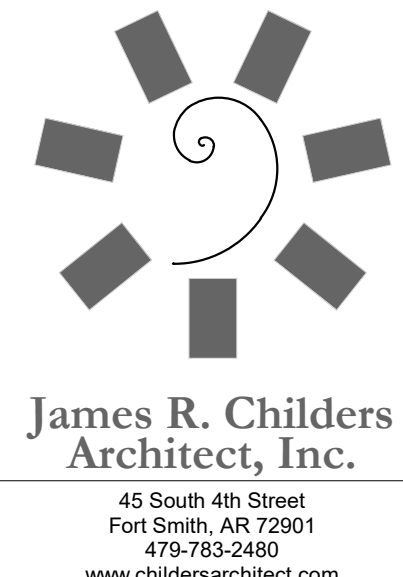
CEILING SYMBOLS

	GYPSUM BOARD CEILING		SUSPENDED LED LIGHT
	WOOD CEILING		CONTROL JOINT
	2 x 2 LAY-IN		LED TROFFER
	2 x 4 LAY-IN		RECESSED LIGHT
	OPEN TO STRUCTURE CEILING		LINEAR DIFFUSERS
	SUPPLY AIR		RECESSED CAN
	RETURN AIR		
	EXHAUST AIR		
	ACCESS PANEL		

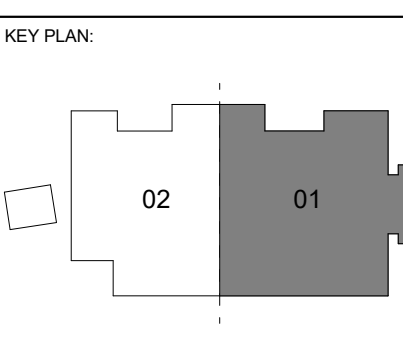
- GENERAL NOTES**
- ALL CEILING SHALL BE 9'-0" ABOVE FINISHED FLOOR, U.N.O. (COORDINATE W/ OWNER-FURNISHED VENDOR DRAWINGS & EQUIPMENT)
 - IN THE CASE OF MINOR DISCREPANCIES BETWEEN MEP & ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK.
 - REFERENCE MECHANICAL & ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OF INDICATED.
 - LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, STROBES & MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, U.N.O.
 - ALL CORRIDOR SPRINKLER HEADS SHALL BE ALIGNED IN THE SAME LOCATION PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION. ARCHITECTURALLY SIGNIFICANT SPRINKLER HEAD LOCATIONS MAY BE SHOWN ON REFLECTED CEILING PLAN FOR DESIGN INTENT ONLY.
 - ACCESS DOOR LOCATIONS IN GYPSUM BOARD CEILING ARE INDICATED ON RCP'S ONLY WHERE ARCHITECTURALLY SIGNIFICANT. REFERENCE SPECIFICATIONS & MEP DRAWINGS FOR OTHER ACCESS DOOR LOCATIONS.
 - EXIT SIGNS ARE SHOWN ON REFLECTED CEILING PLAN ONLY WHERE LOCATION IS ARCHITECTURALLY SIGNIFICANT.
 - ALL GYPSUM BOARD CEILING TO BE PAINTED P-4 U.N.O.
 - DIMENSIONS AT CUBICLE CURTAIN TRACKS ARE TO CENTER OF TRACK, TYP.
 - ALL CUBICLE CURTAIN TRACKS MUST CLEAR DOOR SWINGS BY 3" MINIMUM.

01 REFLECTED CEILING PLAN - LEVEL 02 SECTOR 01
1/8" = 1'-0"

PLAN NORTH TRUE NORTH



WILMA P. MANKILLER HEALTH CENTER
EXPANSION
STILWELL, OKLAHOMA



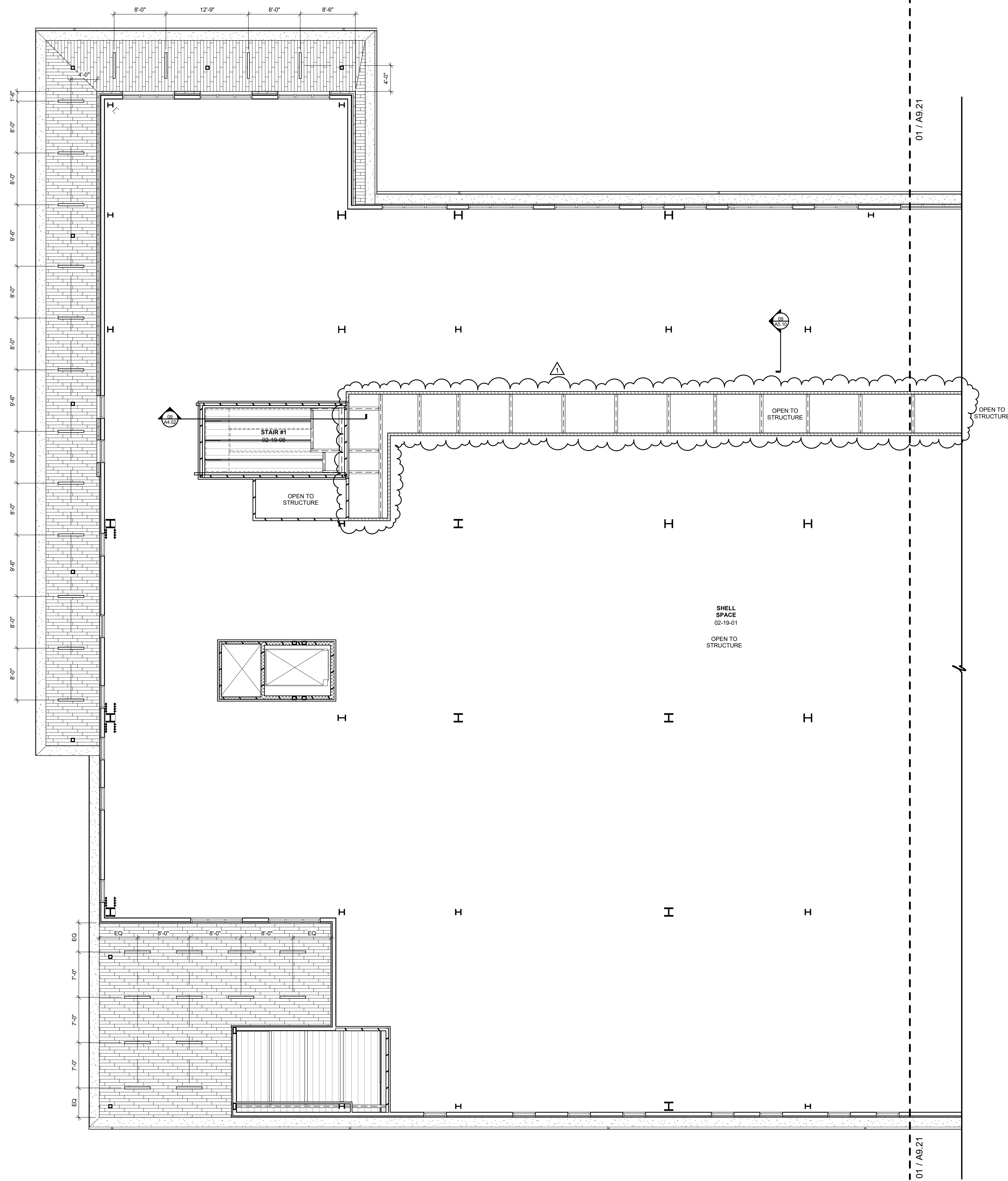
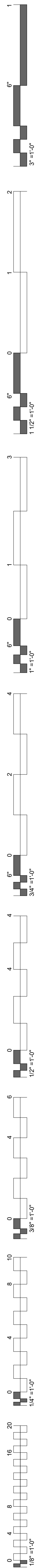
PROJECT PHASE:
BID PACKAGE 02

#	DATE	REVISIONS / DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 01

DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
A9.21

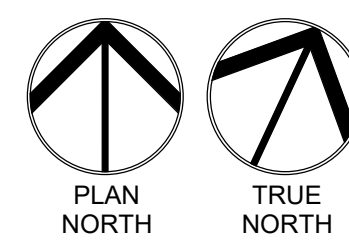
CEILING PLAN LEVEL 02 SECTOR 01



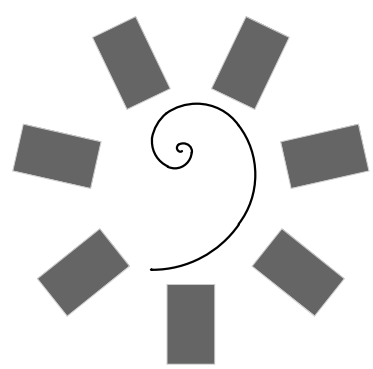
CEILING SYMBOLS

	GYPSON BOARD CEILING		SUSPENDED LED LIGHT
	WOOD CEILING		CONTROL JOINT
	2 x 2 LAY-IN		LED TROFFER
	2 x 4 LAY-IN		RECESSED LIGHT
	OPEN TO STRUCTURE CEILING		LINEAR DIFFUSERS
	SUPPLY AIR		RECESSED CAN
	RETURN AIR		
	EXHAUST AIR		
	ACCESS PANEL		

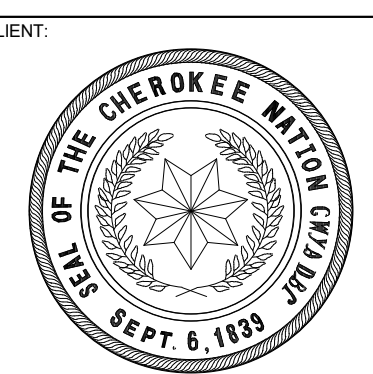
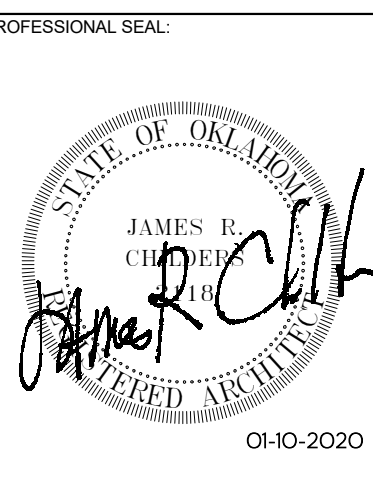
- GENERAL NOTES**
- ALL CEILINGS SHALL BE 9' - 0" ABOVE FINISHED FLOOR, U.N.O. (COORDINATE W/ OWNER-FURNISHED VENDOR DRAWINGS & EQUIPMENT)
 - IN THE CASE OF MINOR DISCREPANCIES BETWEEN MEP & ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK.
 - REFERENCE MECHANICAL & ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OF INDICATED.
 - LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, STROBES & MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, U.N.O.
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 - EXIT SIGNS ARE SHOWN ON REFLECTED CEILING PLAN ONLY WHERE LOCATION IS ARCHITECTURALLY SIGNIFICANT.
 - ALL GYPSON BOARD CEILINGS TO BE PAINTED P-4 U.N.O.
 - DIMENSIONS AT CUBICLE CURTAIN TRACKS ARE TO CENTER OF TRACK, TYP.
 - ALL CUBICLE CURTAIN TRACKS MUST CLEAR DOOR SWINGS BY 3" MINIMUM.



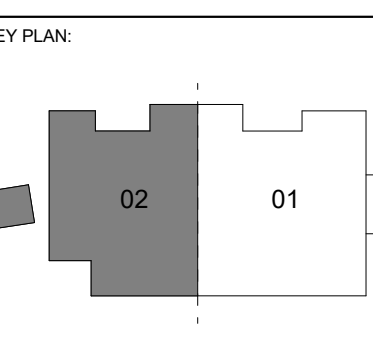
01 REFLECTED CEILING PLAN - LEVEL 02 SECTOR 02
1/8" = 1'-0"



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**WILMA P. MANKILLER HEALTH CENTER
EXPANSION**
STILWELL, OKLAHOMA



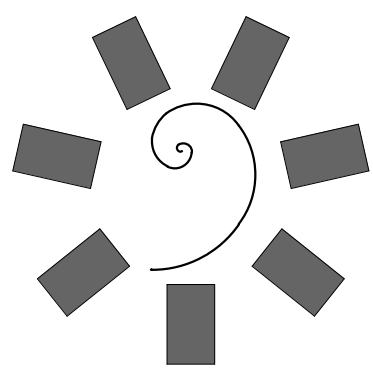
PROJECT PHASE:
BID PACKAGE 02

#	DATE	REVISIONS DESCRIPTION
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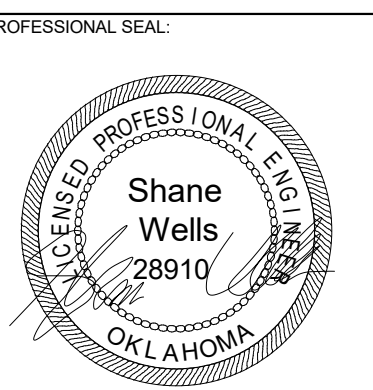
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SHEET NUMBER:
A9.22

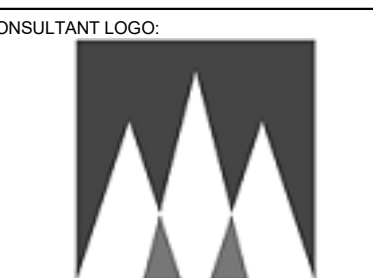
CEILING PLAN LEVEL 02 SECTOR 02



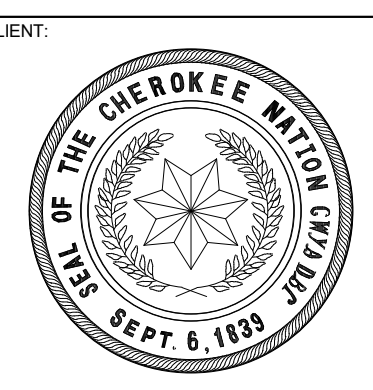
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01/10/2020



HP ENGINEERING PROJECT NO. 18068R 100% COMPLETE



WILMA P. MANKILLER HEALTH CENTER EXPANSION

WILMA P. MANKILLER HEALTH CENTER EXPANSION STILLWELL, OKLAHOMA

KEY PLAN

PROJECT PHASE

BID PACKAGE 02

Table with columns: #, DATE, REVISIONS, DESCRIPTION

DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER

P1.00

PLUMBING LGD, NOTES & SCHS.

GAS LOAD CALCULATION

GAS LOAD CALCULATION NOTES: GAS LINES HAVE BEEN SIZED AS PER TABLE 402.4(2) OF THE 2006 INTERNATIONAL FLUID GAS CODE FOR PRESSURES OF LESS THAN 2PSI AND A PRESSURE DROP OF 0.5" WATER COLUMN AND 0.6 SPECIFIC GRAVITY. USING A DISTANCE OF 125 FEET.

Table with columns: EQUIPMENT, MBH INPUT (EACH), QTY, TOTAL MBH INPUT

PLUMBING PIPE LEGEND

Table with columns: DESCRIPTION, TAG, LINETYPE

PLUMBING SYMBOL LEGEND

Table with columns: SYMBOL, DESCRIPTION

GENERAL PLUMBING NOTES

- 1 THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL CODE REGULATIONS AND LOCAL PLUMBING INSPECTOR. 2 THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMMATIC. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, BENDS, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.

GENERAL PLUMBING SEISMIC NOTES

- 1 PROVIDE VIBRATION AND SEISMIC CONTROLS FOR FIRE-SUPPRESSION PIPING AND EQUIPMENT FOR DEVICES FOR FIRE-SUPPRESSION EQUIPMENT AND SYSTEMS. 2 PROVIDE VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT. 3 COORDINATE ALL VIBRATION ISOLATION DEVICE INSTALLATION AND SEISMIC BRACING FOR PLUMBING PIPING AND EQUIPMENT WITH OTHER SYSTEMS AND EQUIPMENT IN THE VICINITY, INCLUDING OTHER SUPPORTS AND RESTRAINTS, IF ANY.

P-WATER HEATER SCHEDULE

Table with columns: TAG NUMBER, SERVICE, MFR, MODEL NUMBER, TYPE, GPM AT 70F RISE, POWER SUPPLY, NOTES

P-BOOSTER PUMP SCHEDULE

Table with columns: TAG NUMBER, SERVICE, MFR, MODEL, TYPE, TOTAL SYSTEM US GPM, TDH FT, HP, POWER SUPPLY, NOTES

PLUMBING PIPING INSULATION SCHEDULE

Table with columns: DESCRIPTION, INSULATION TYPE, INSULATION THICKNESS NOMINAL PIPE SIZE

PIPING MATERIAL SCHEDULE

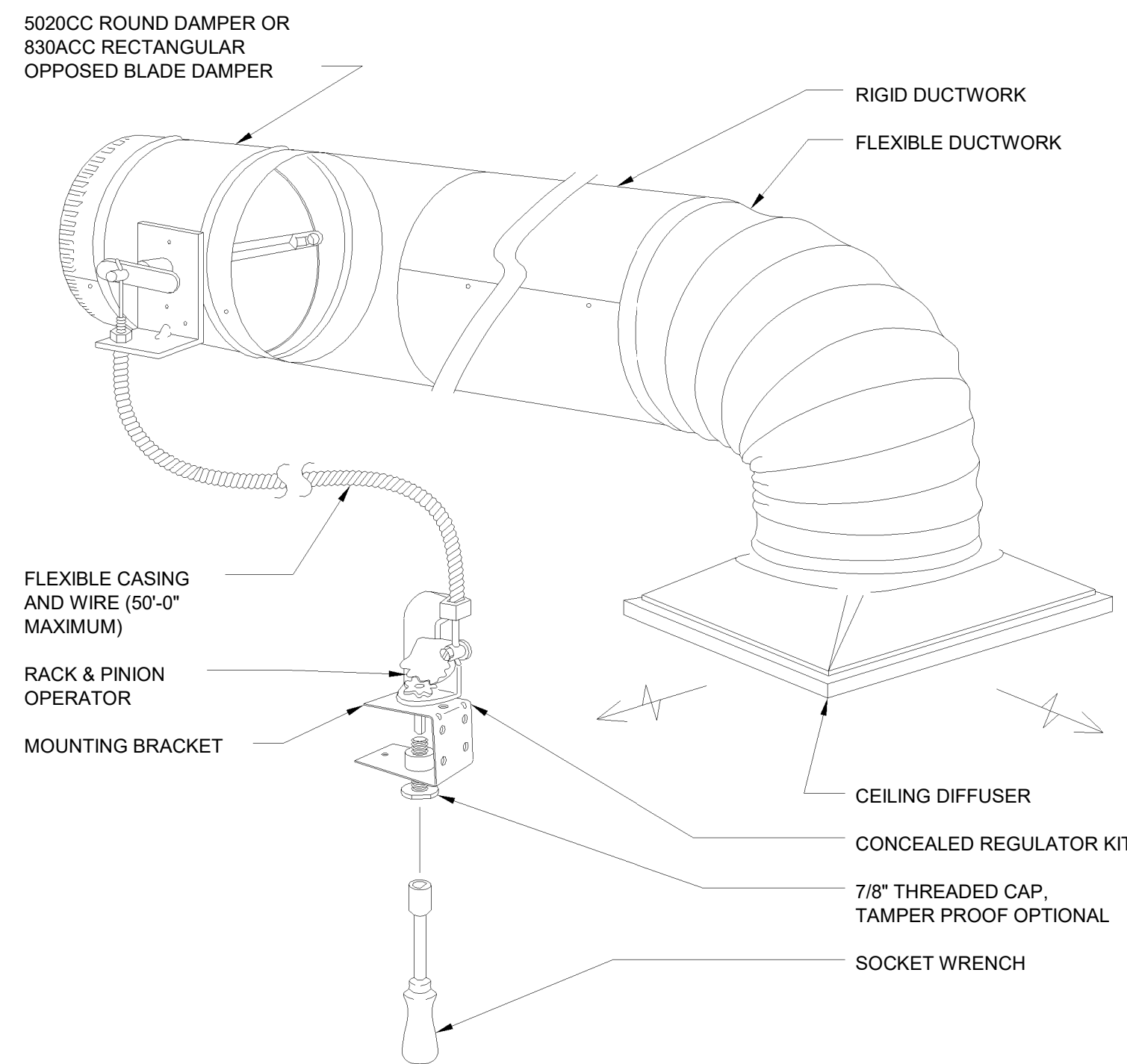
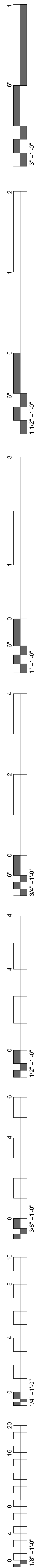
Table with columns: DESCRIPTION, MATERIAL

ROUGH-IN AND MOUNTING HEIGHT SCHEDULE

Table with columns: FIXTURE, WASTE, VENT, COLD WATER, HOT WATER, HEIGHT OF INSTALLATION

PLUMBING EQUIPMENT SCHEDULE

Table with columns: FIXTURE TAG, DESCRIPTION, MANUFACTURER, TRIM, ELECTRICAL REQUIREMENTS



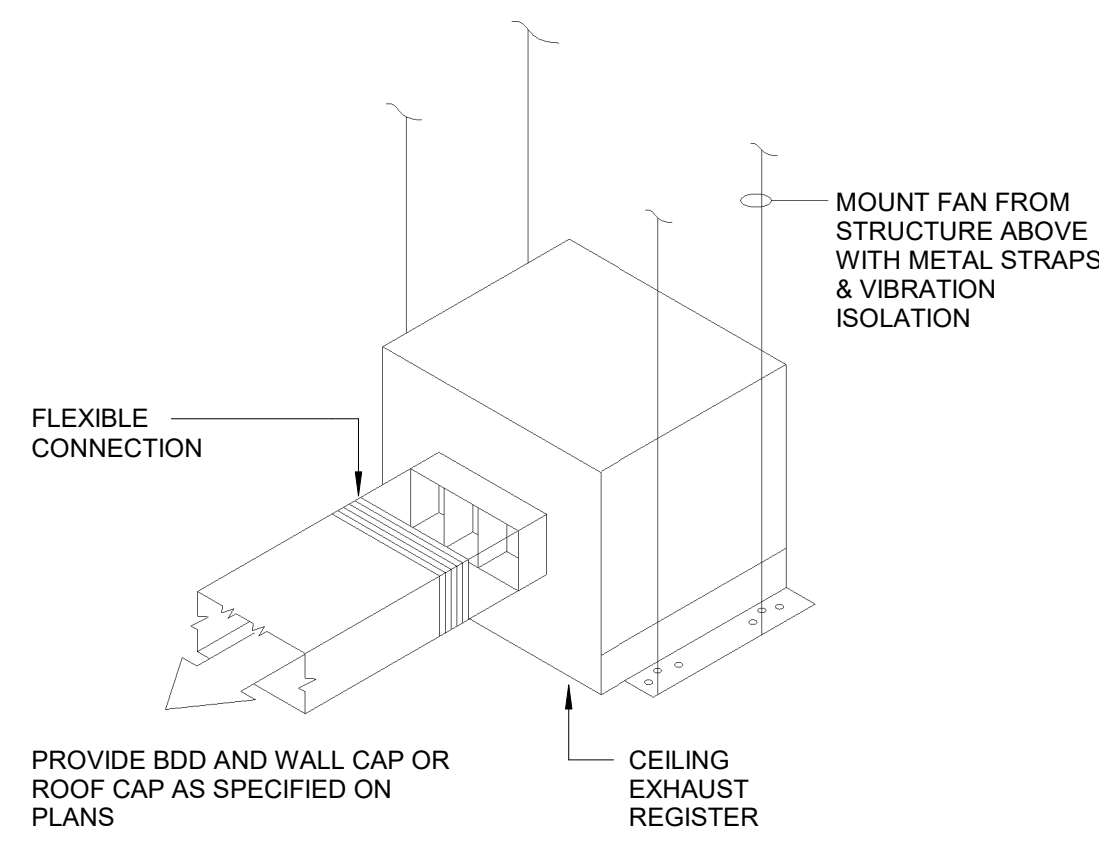
270-896 BOWDEN CABLE CONTROL SYSTEM

NO SCALE

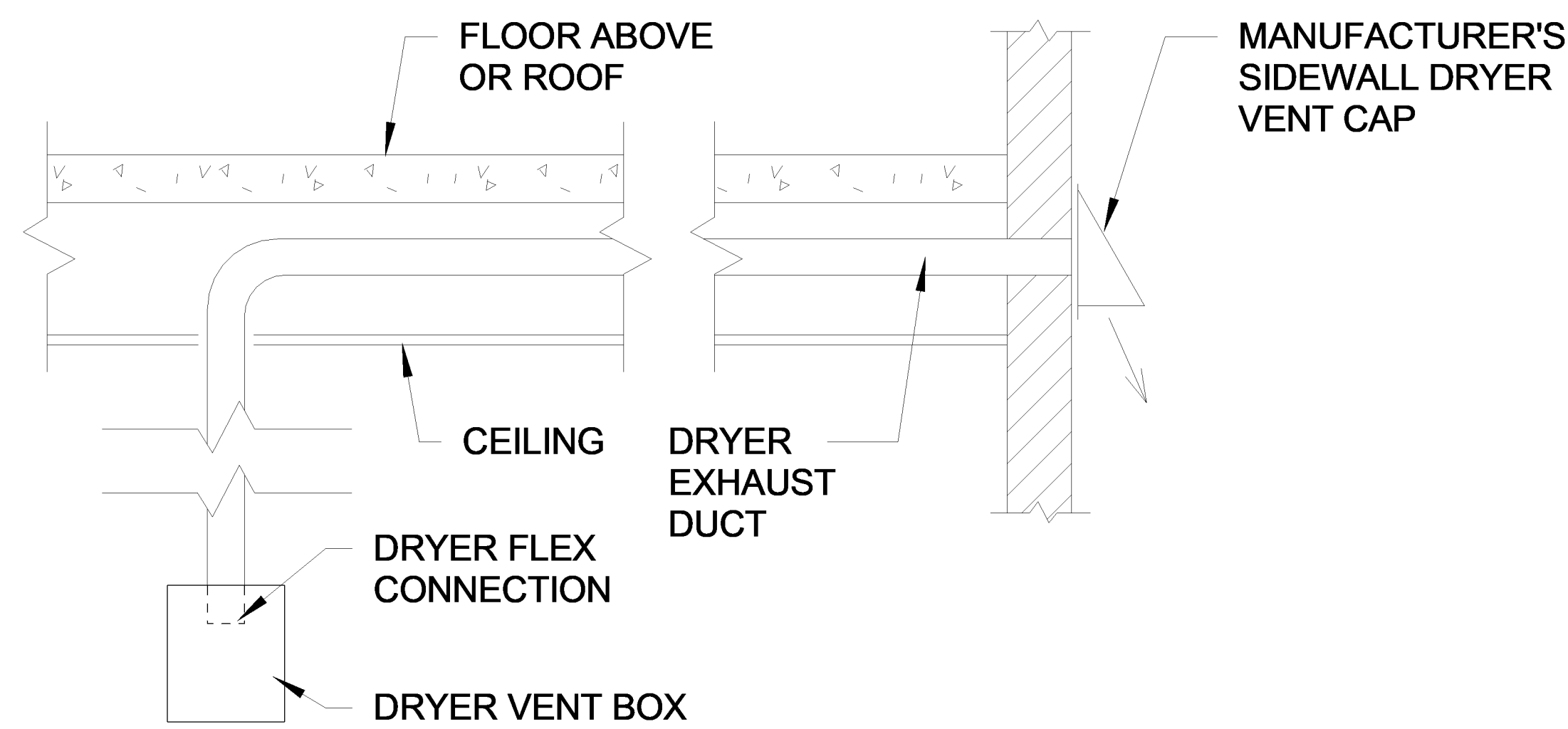
NOTE:

- 1) CABLE SHALL CONSIST OF 0.054" STAINLESS STEEL CONTROL WIRE ENCAPSULATED IN 1/16" FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH.
- 2) LOCKING RACK AND PINION GEAR DRIVE SHALL BE CONSTRUCTED OF 14 GAUGE STEEL AND SHALL BE USED TO CONVERT ROTARY MOTION INTO PUSH-PULL MOTION.
- 3) CONTROL SHAFT SHALL BE "D"-STYLE FLATTENED 1/4" DIAMETER WITH 265° ROTATION PROVIDING 1-1/2" LINEAR TRAVEL CAPABILITY.

7 REMOTE DAMPER OPERATOR DETAIL
SCALE: N.T.S.

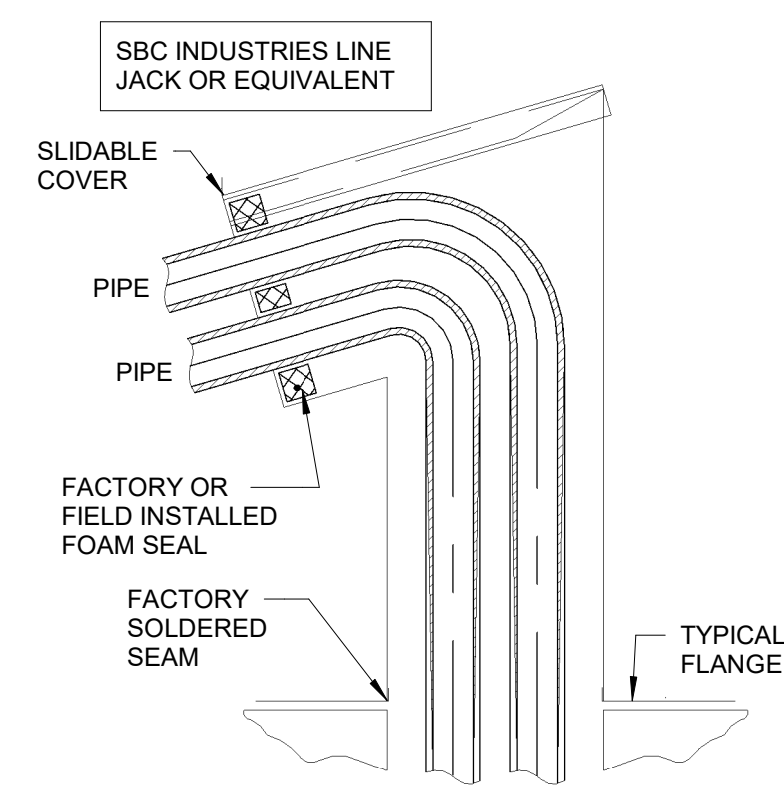


5 CEILING EXHAUST FAN DETAIL
SCALE: N.T.S.

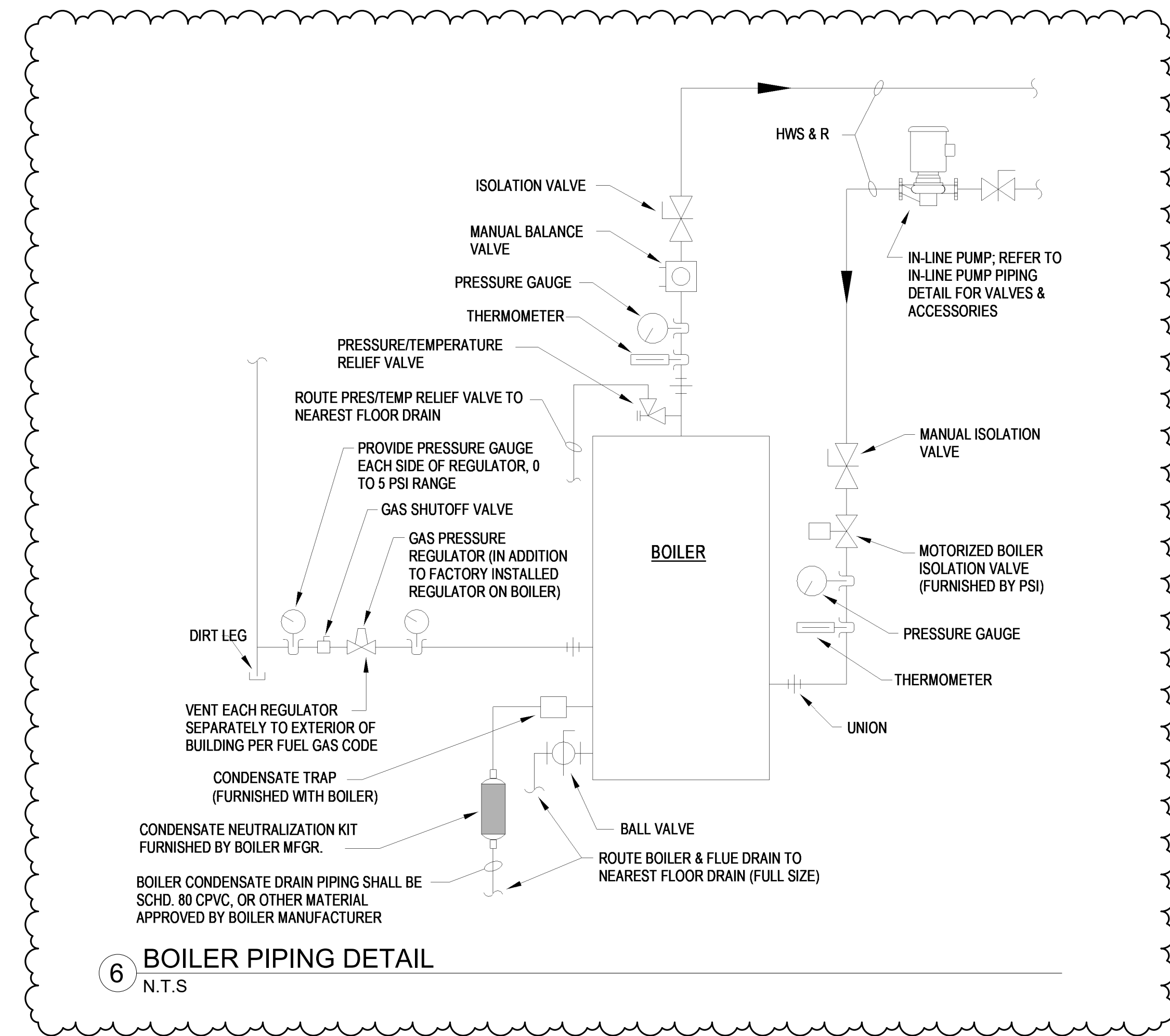


NOTE: VENT ROUTING TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS

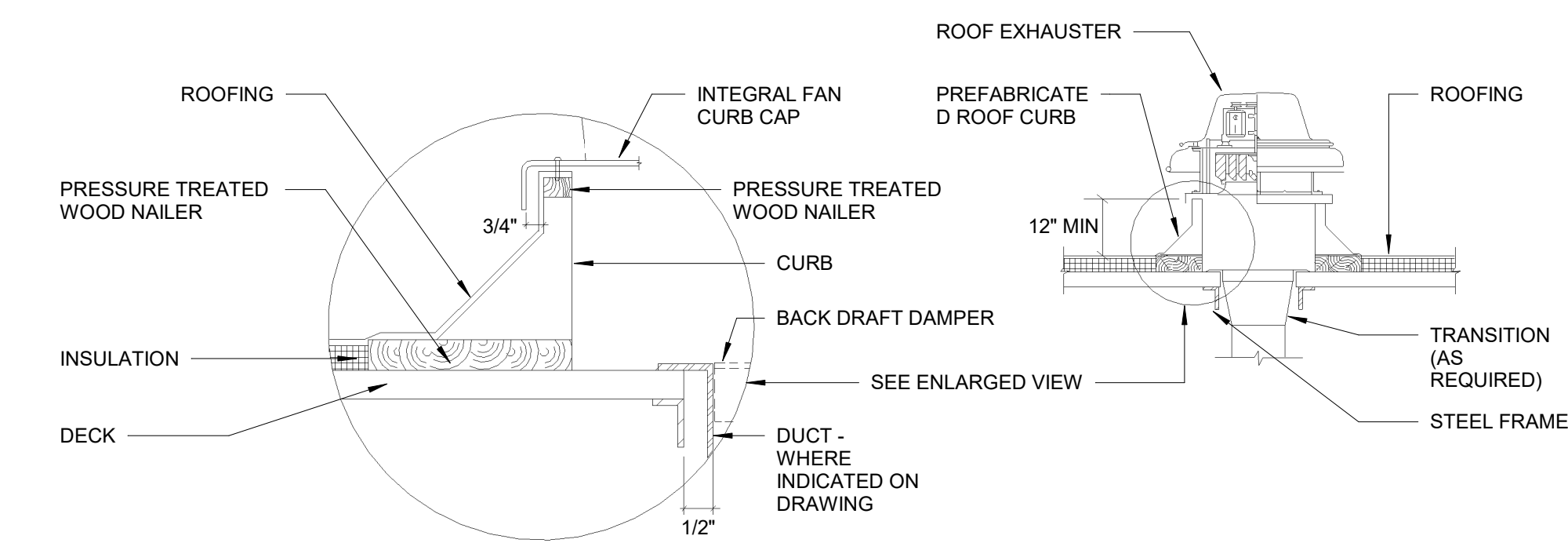
3 DRYER EXHAUST VENT THRU SIDEWALL DETAIL
SCALE: N.T.S.



2 ROOF REFRIGERANT PIPING PENETRATION - GOOSENECK
N.T.S.

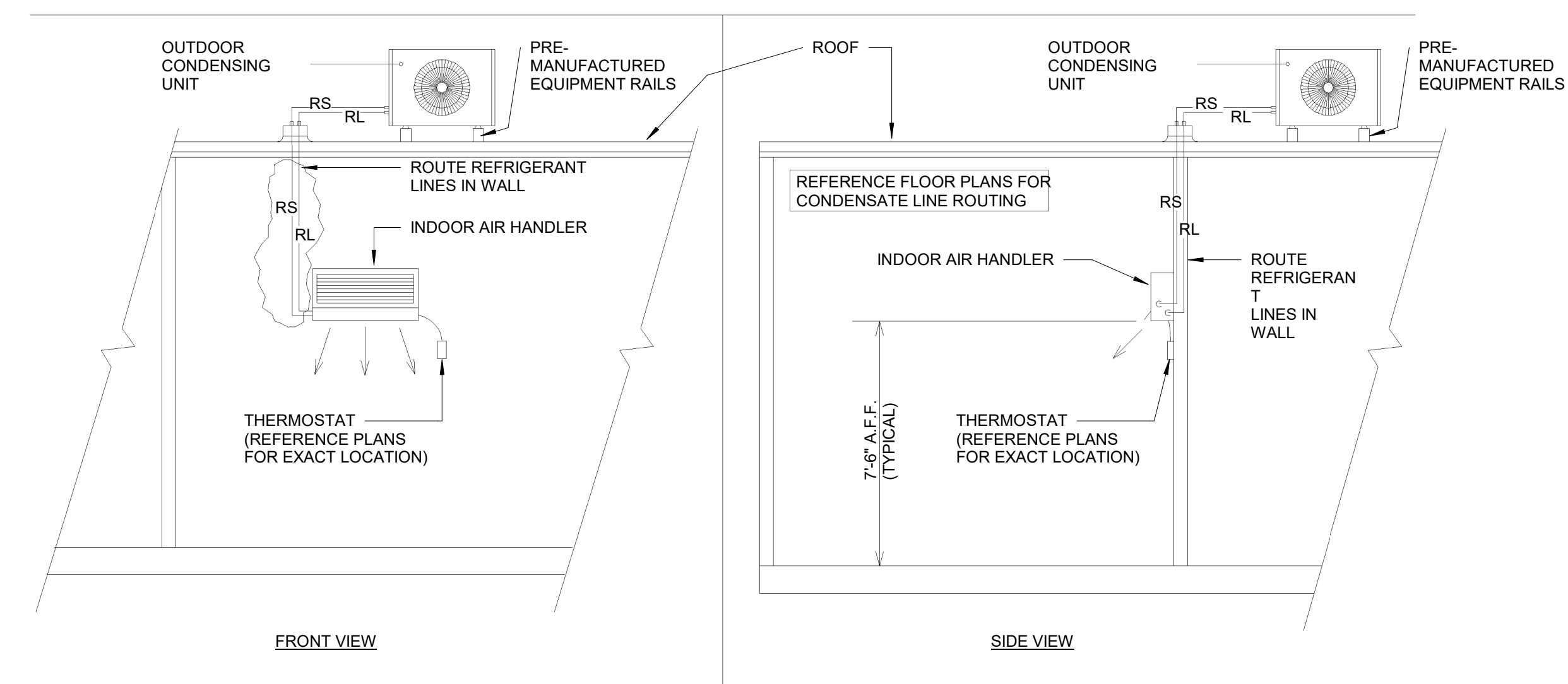


6 BOILER PIPING DETAIL
N.T.S.

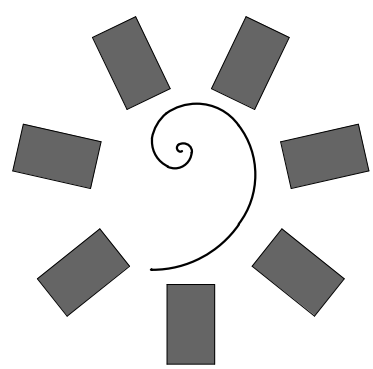


- NOTES:
1. WHERE NO DUCT IS INDICATED, BACKDRAFT DAMPER SHALL BE FULL SIZE OF OPENING IN ROOF DECK.
 2. ROOF MOUNTED EXHAUST FANS SHALL NOT BE MOUNTED ON A SLOPE OF GREATER THAN 6:12.

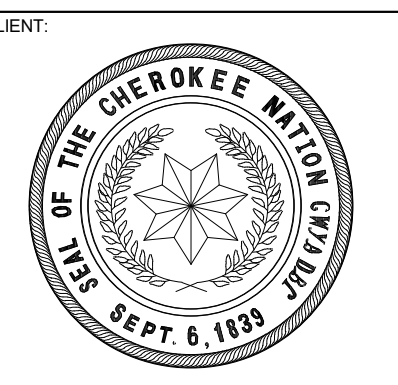
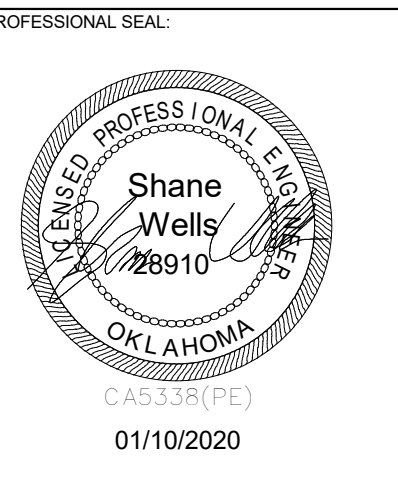
4 ROOF MOUNTED EXHAUST FAN DETAIL
SCALE: N.T.S.



1 DUCTLESS SPLIT SYSTEM WITH ROOF-MOUNTED CONDENSING UNIT
SCALE: N.T.S.



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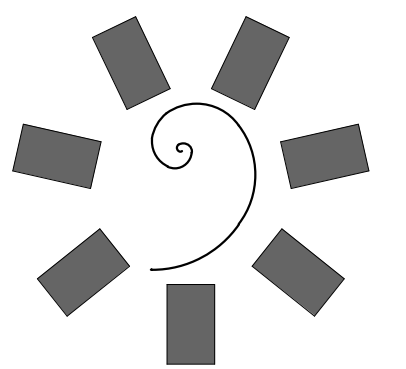
KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

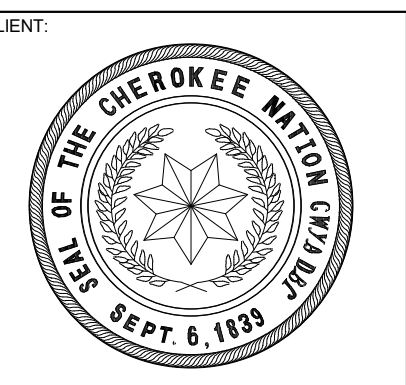
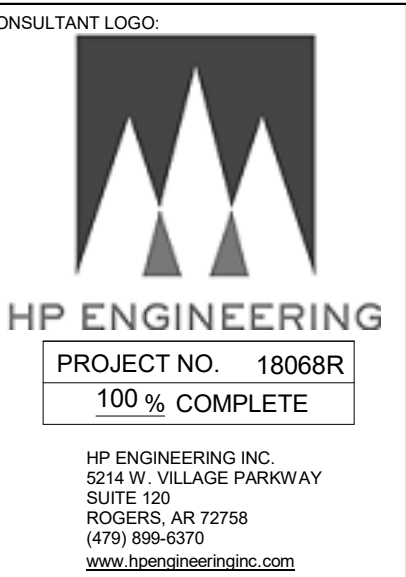
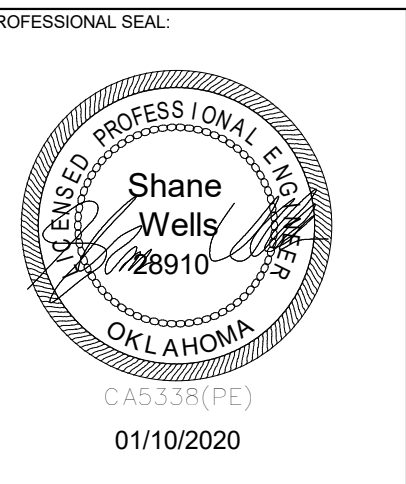
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DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER:

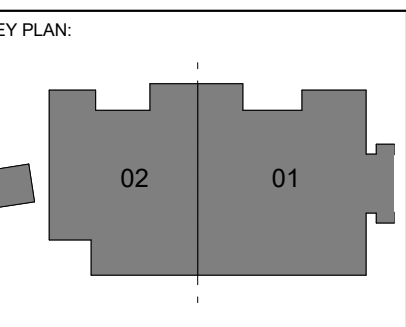
M2.03
MECHANICAL
DETAILS



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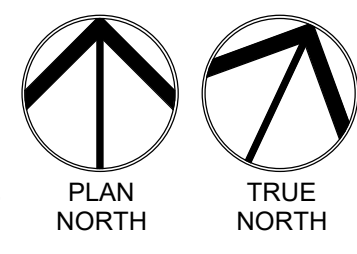
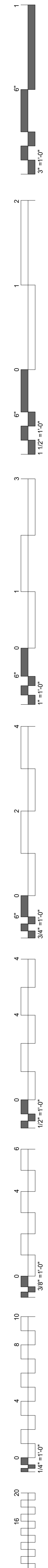
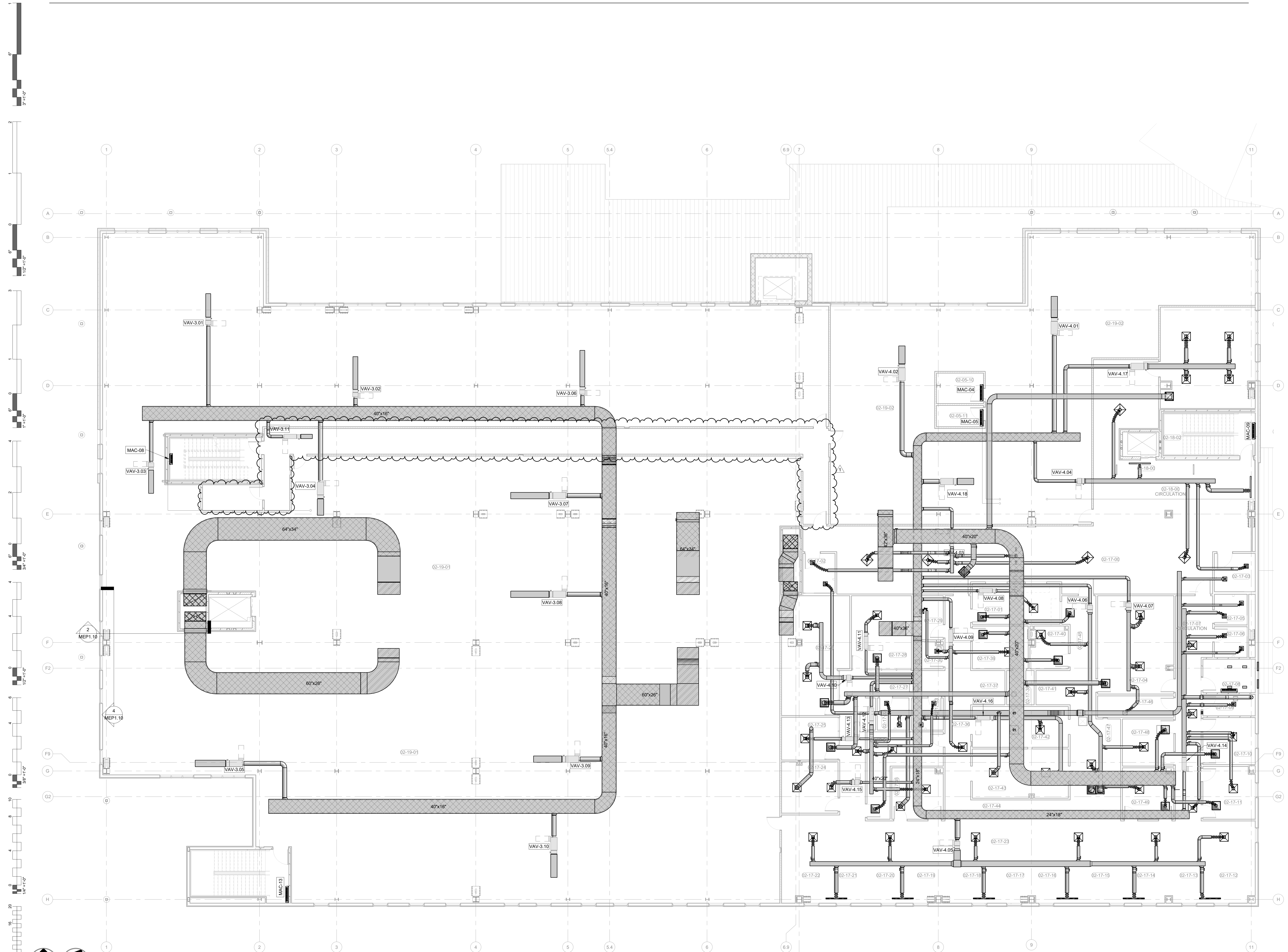
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BID PACKAGE 02

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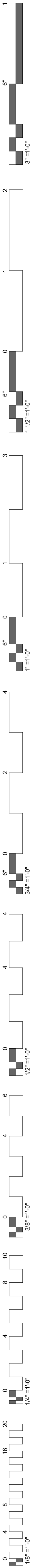
DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
M4.02

**OVERALL MECH
PLAN LEVEL 02**

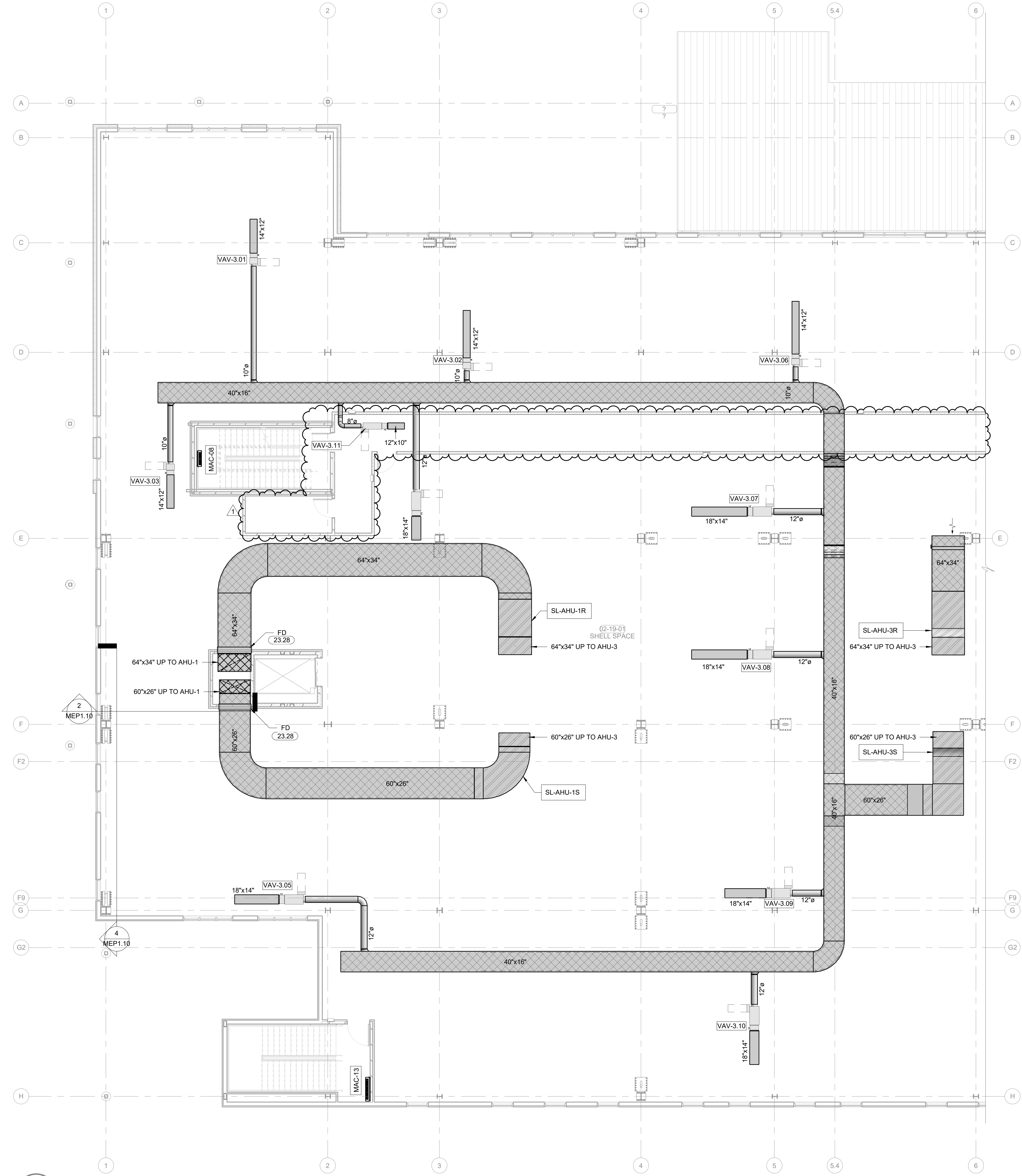


02 OVERALL MECHANICAL PLAN LEVEL 02
1/8" = 1'-0"



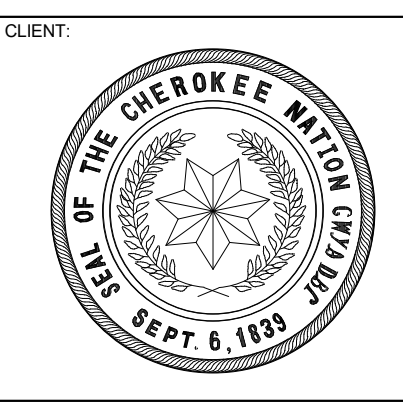
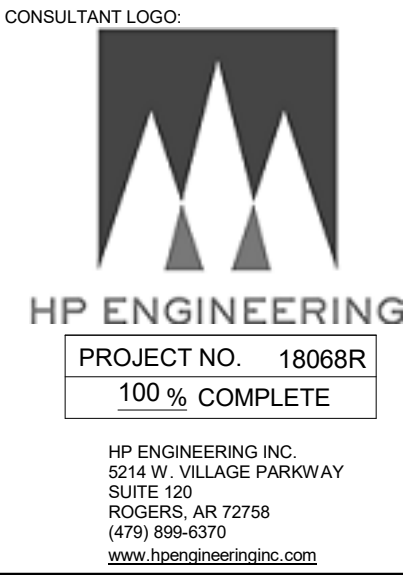
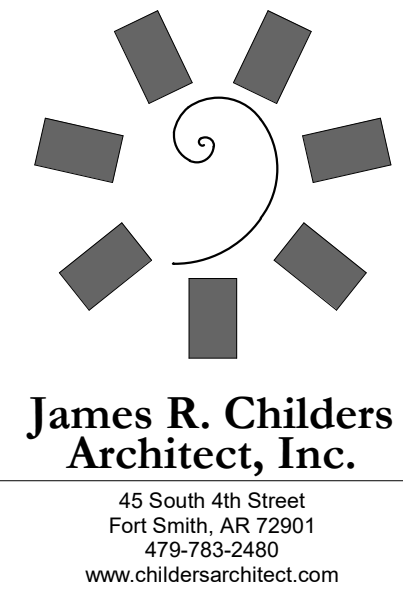
KEYNOTES

23.28 PROVIDE MULTI-SECTION FIRE AND SMOKE DAMPER S, RUSHN FSD40 OR EQUIVALENT, WHERE INDICATED AT SHAFT WALL PENETRATIONS TO MAINTAIN 1-2 HOUR RATING OF SHAFT WALL. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ON BOTH SIDES OF DUCTS TO ACCOMMODATE FSD ACTUATORS. ACTUATORS SHALL BE TANDEM-MOUNTED (ON SAME SIDE OF DUCT) ONLY WHERE SPACE CONSTRAINTS DO NOT ALLOW ACTUATORS TO BE MOUNTED ON BOTH SIDES OF DUCT.

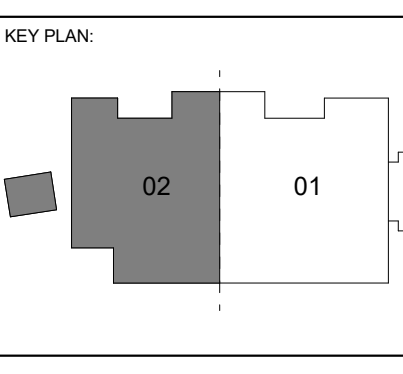




2 ENLARGED MECHANICAL PLAN LEVEL 02 SECTOR 02
 1/8" = 1'-0"



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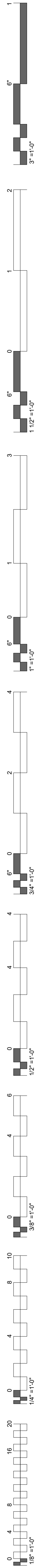


PROJECT PHASE:
BID PACKAGE 02

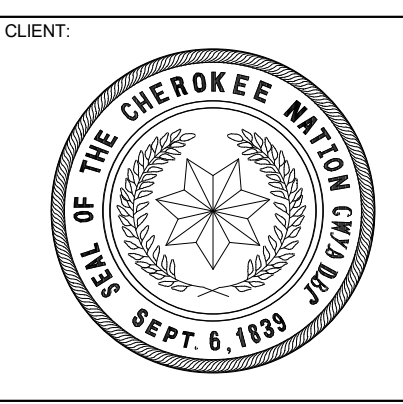
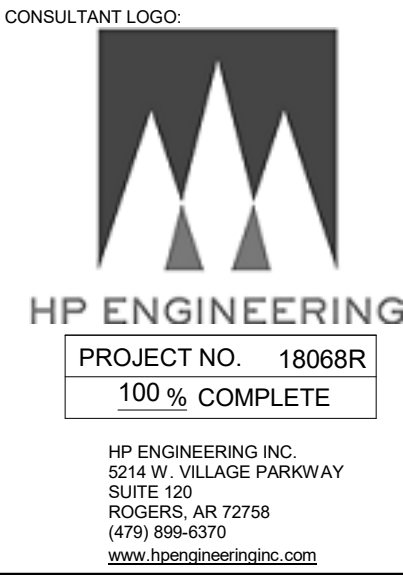
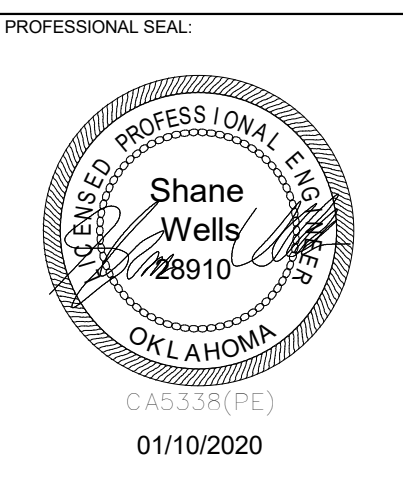
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1	1/19/20	BID PACKAGE 02 - ADD 01	

DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
M5.04
MECH PLAN
LEVEL 02
SECTION 02



KEYNOTES	
23.12	KITCHEN HOOD EQUAL TO BLUE STAR MODEL BS-PL3024 TS WITH 600 CFM BLOWER (BY OTHERS) PROVIDE WITH FIRE SUPPRESSION SYSTEM EQUAL TO GUARDIAN III
23.13	ROUTE WATER HEATER INTAKE AND EXHAUST THROUGH SIDEWALL AS SHOWN. PROVIDE MFR INTAKE/EXHAUST SIDEWALL KIT. INSTALL AND SIZE PIPE PER MFR INSTRUCTIONS.
23.14	12 x24 LOUVER RUSKIN ESC-435 WITH DUCT PLENUM
23.15	17" BOILERS EXHAUST FLEES. INSTALL AT LEAST 10'-0" FROM AIR INTAKES AND AT LEAST 3'-0" ABOVE THEM. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. USE RECOMMENDED WALL TERMINATION/PENETRATION AS SHOWN IN DETAIL 11/MZ.01.



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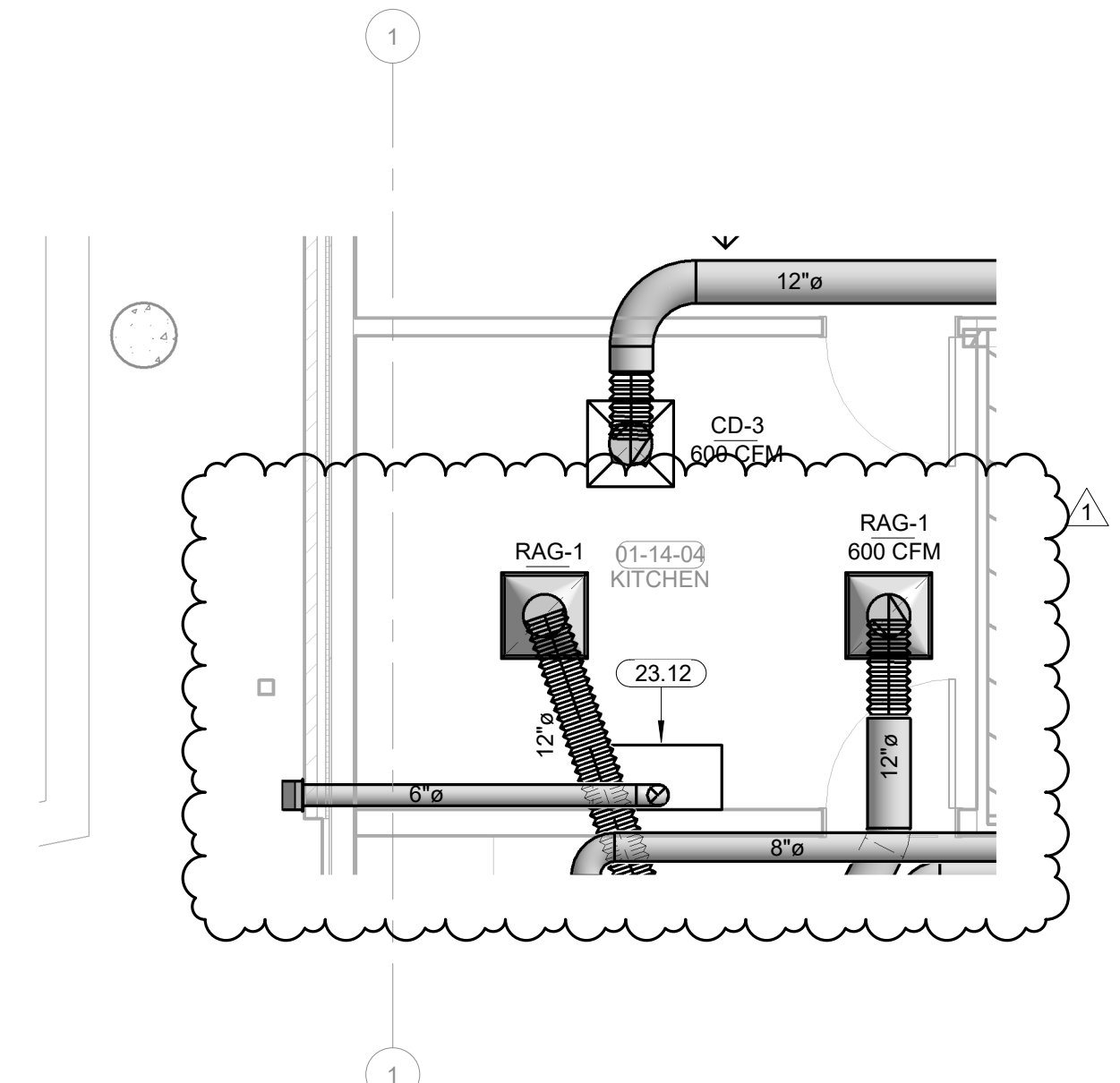
KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

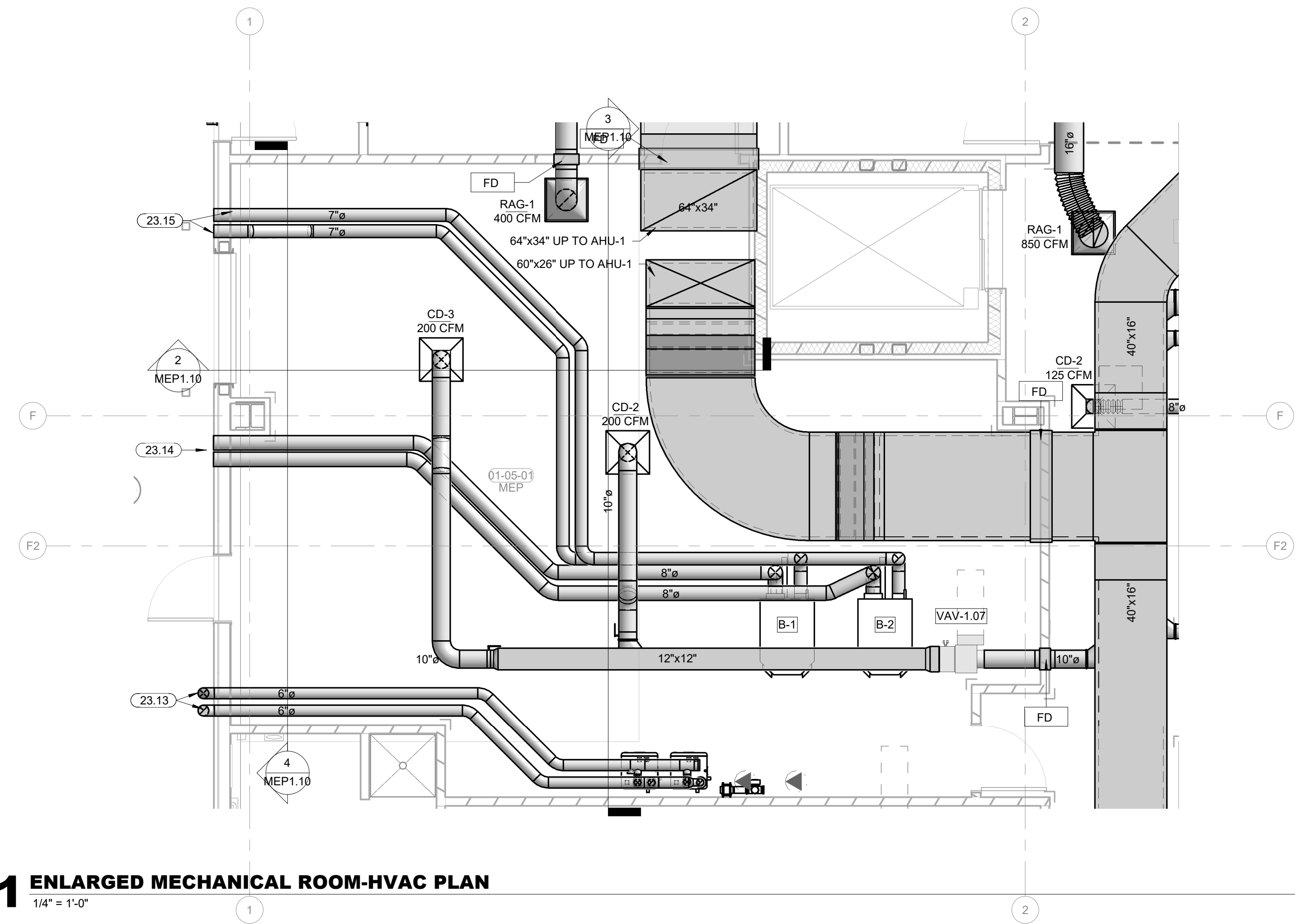
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DATE: 12-06-19 JOB NUMBER: 18-01.01

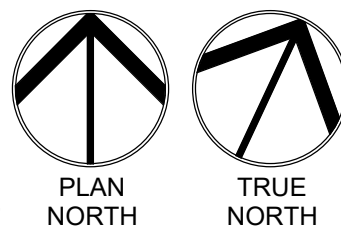
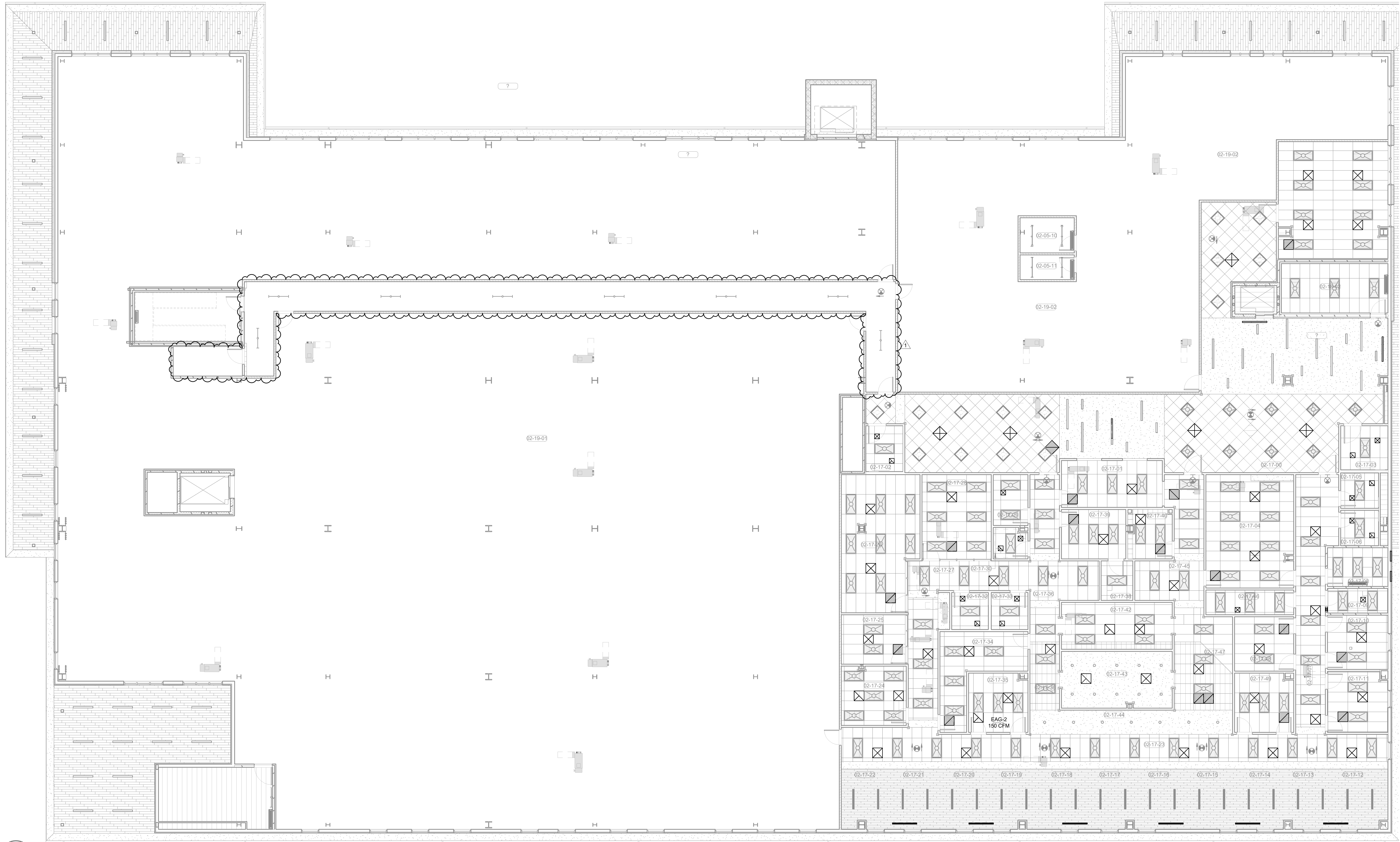
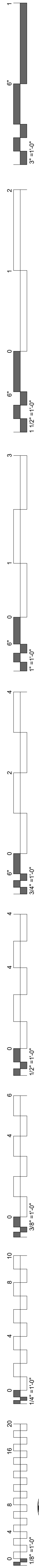
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ENLARGED MECH. ROOM HVAC PLAN



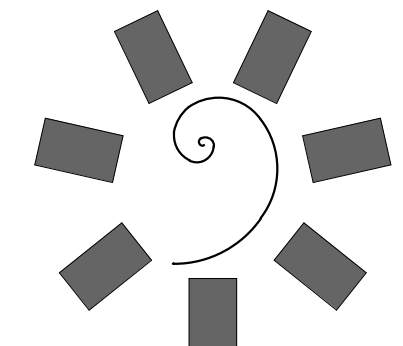
2 KITCHEN ENLARGED MECHANICAL PLAN
1/4" = 1'-0"
PLAN NORTH TRUE NORTH



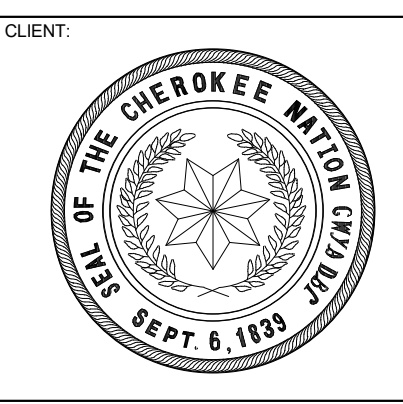
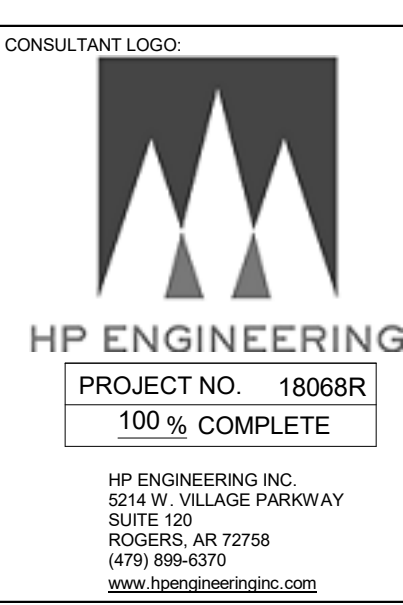
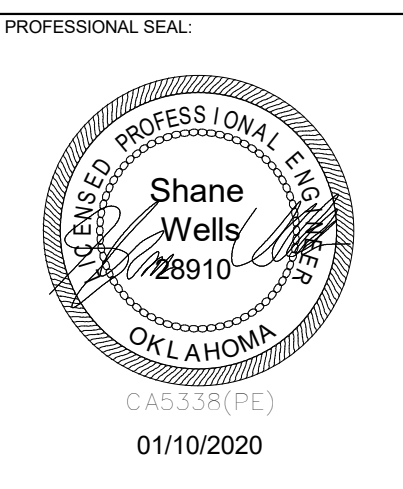
1 ENLARGED MECHANICAL ROOM-HVAC PLAN
1/4" = 1'-0"
PLAN NORTH TRUE NORTH



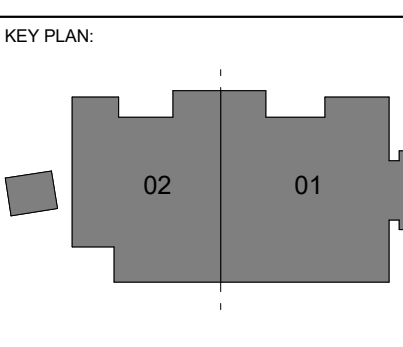
1 OVERALL MECHANICAL CEILING PLAN LEVEL 02
1/8" = 1'-0"



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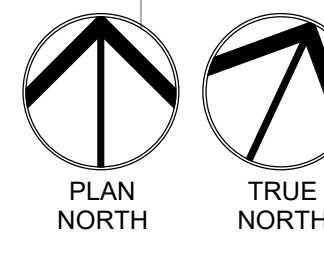
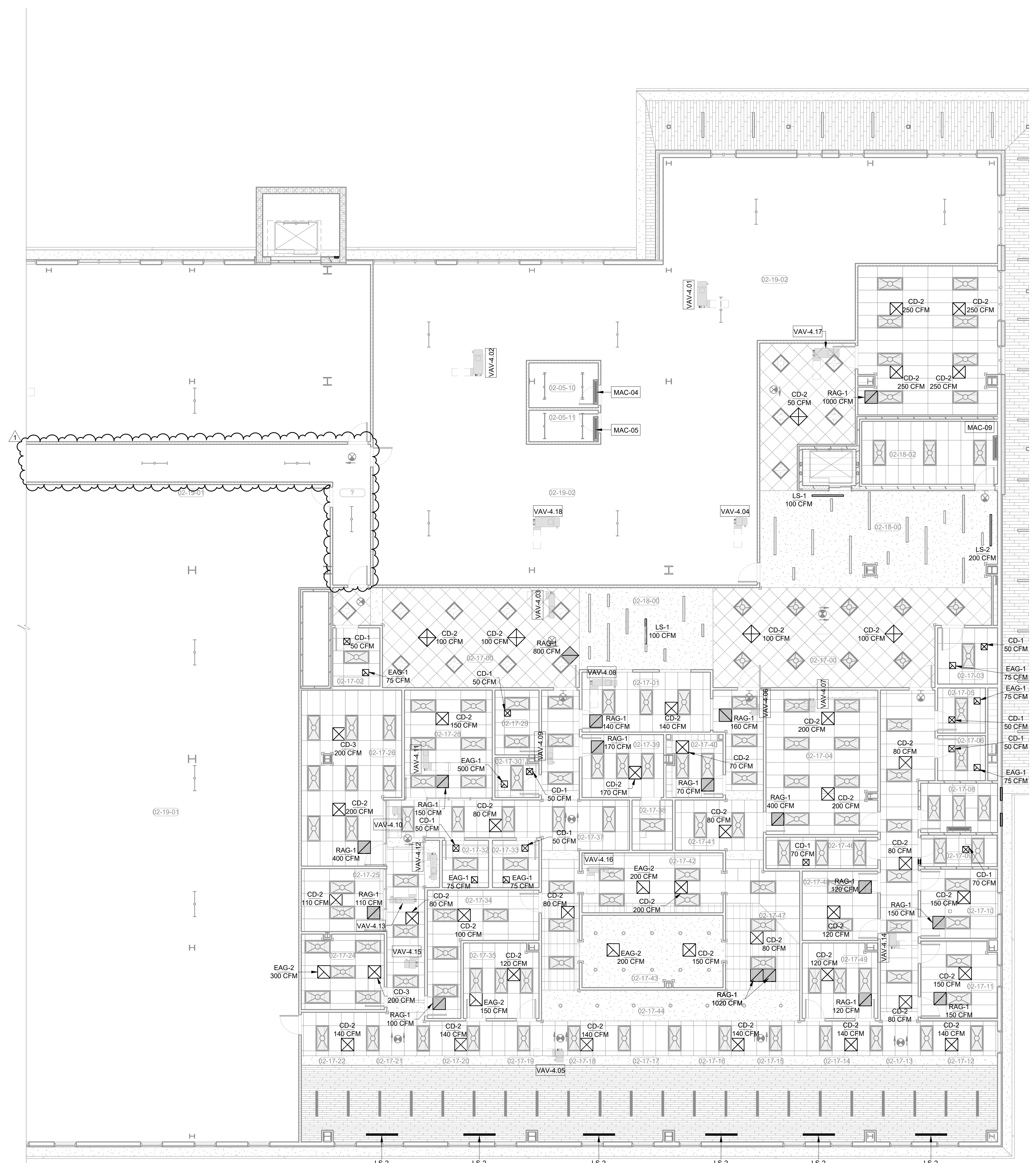
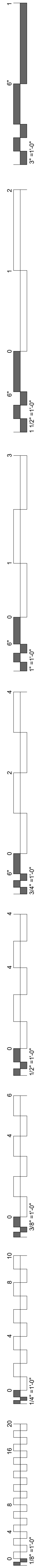
PROJECT PHASE:
BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
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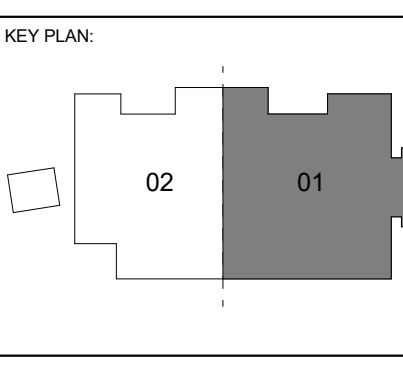
DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
M6.04

**OVERALL MECH
CEILING PLAN
LEVEL 02**



1 ENLARGED MECHANICAL CEILING PLAN LEVEL 02 SECTOR 01
1/8" = 1'-0"



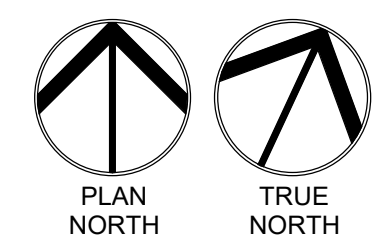
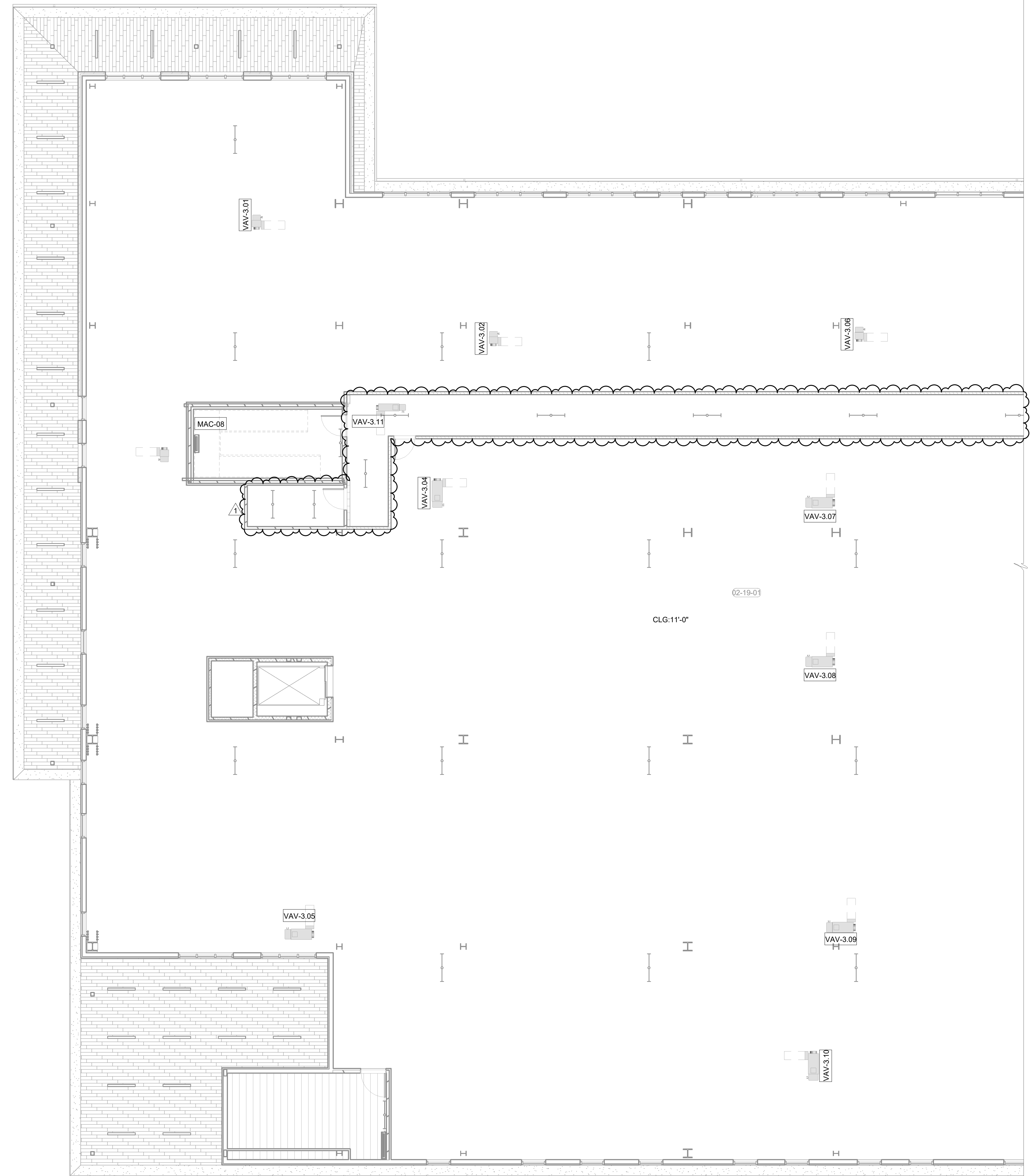
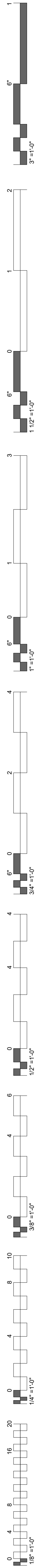
PROJECT PHASE:
 BID PACKAGE 02

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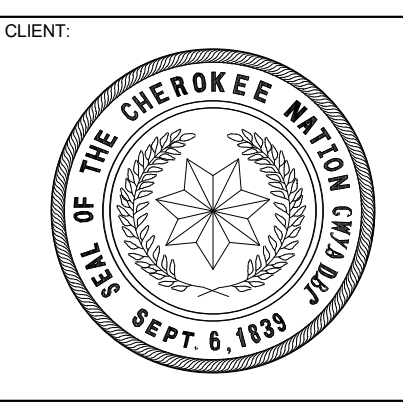
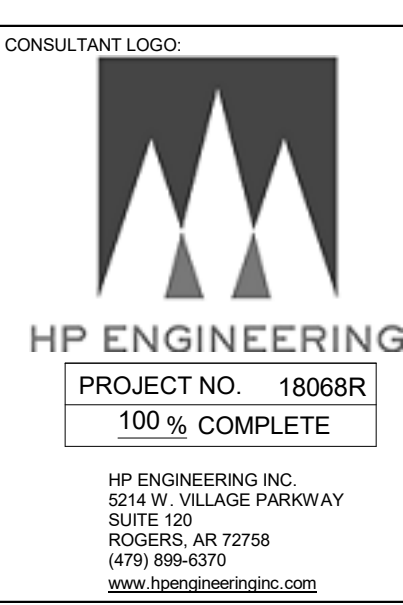
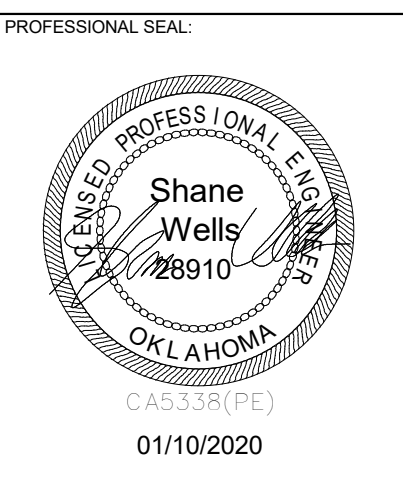
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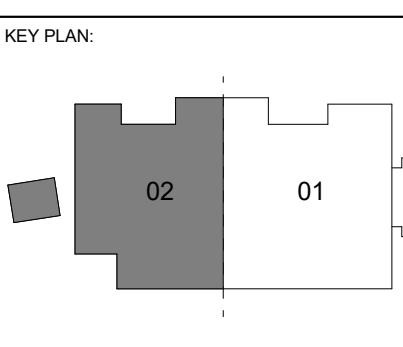
**MECH CEILING
PLAN LEVEL 02
SECTOR 01**



1 ENLARGED MECHANICAL CEILING PLAN LEVEL 02 SECTOR 02
1/8" = 1'-0"



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STILWELL, OKLAHOMA



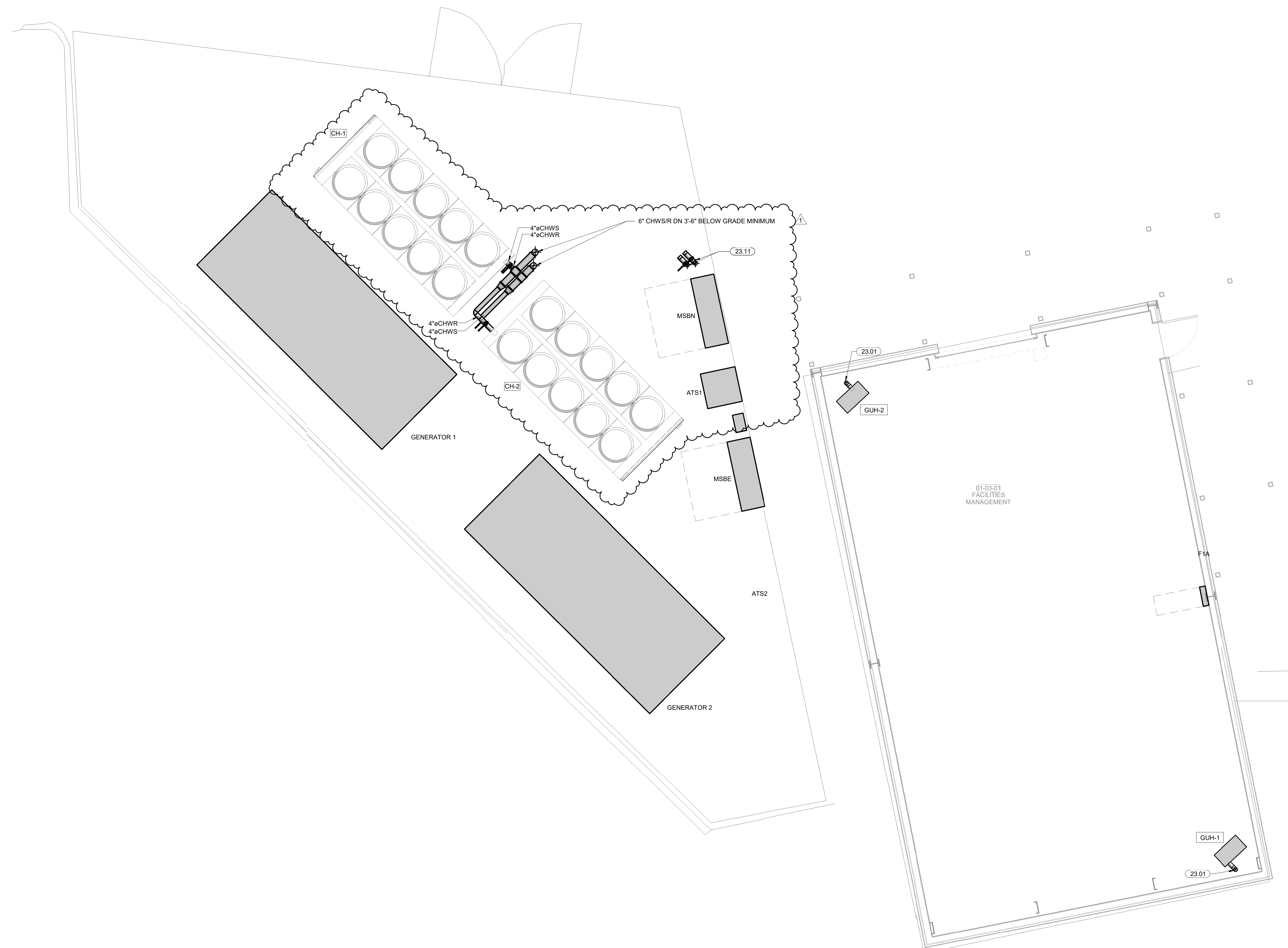
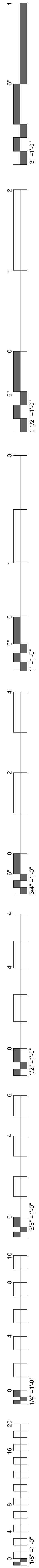
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#	DATE	REVISIONS DESCRIPTION
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DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
M6.06

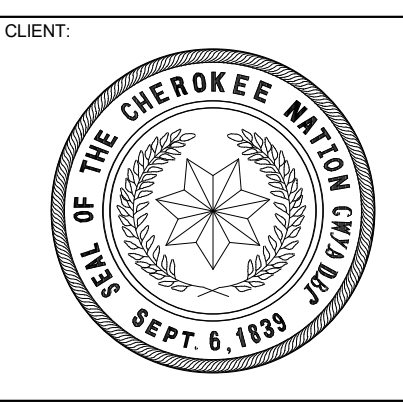
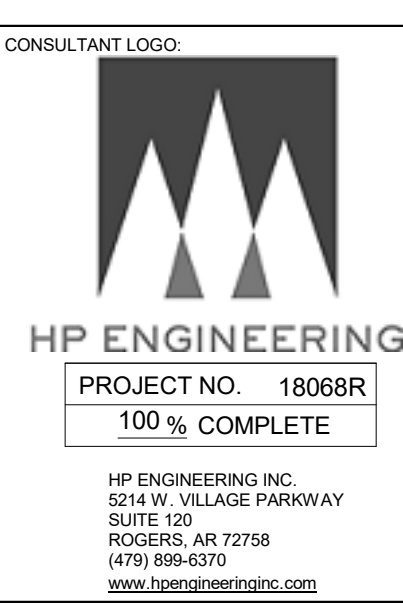
**MECH CEILING
PLAN LEVEL 02
SECTION 02**



KEYNOTES	
23.01	MOUNT GAS UNIT HEATER AT 10'-0" AFF TO BOTTOM OF HEATER. INSTALL MFR CONCENTRIC VENT KIT THRU ROOF. SIZE AND INSTALL PER MFR INSTALLATION INSTRUCTIONS.
23.11	4" CHWR/CHWS STUP UP WITH CAP AND VALVE FOR POSSIBLE FUTURE CHILLER.

PLAN NORTH TRUE NORTH

1 MECHANICAL YARD HYDRONIC PLAN
 1/4" = 1'-0"



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 STILWELL, OKLAHOMA

KEY PLAN:

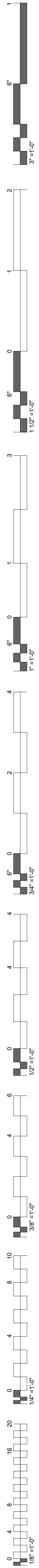
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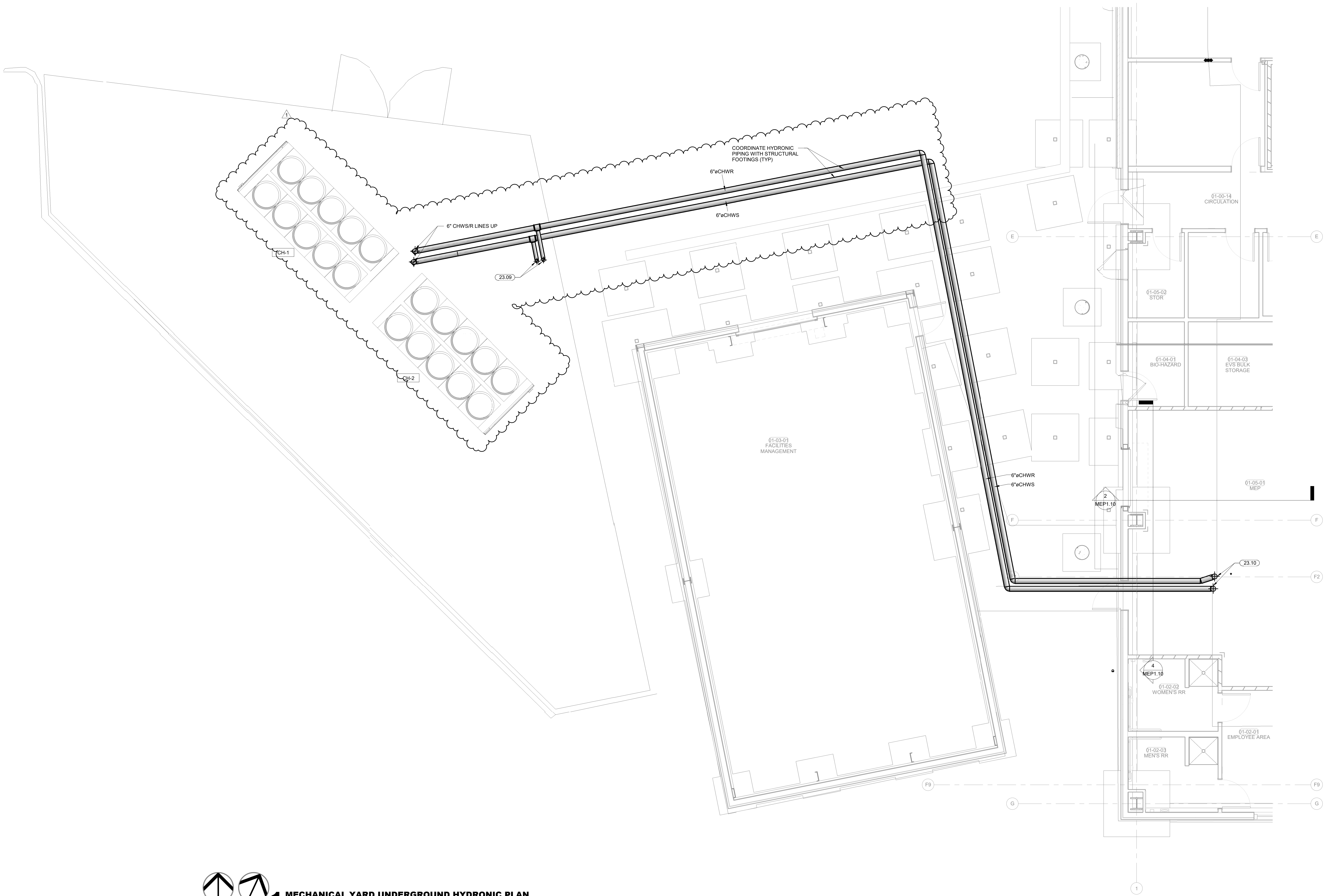
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SHEET NUMBER:
 M8.01

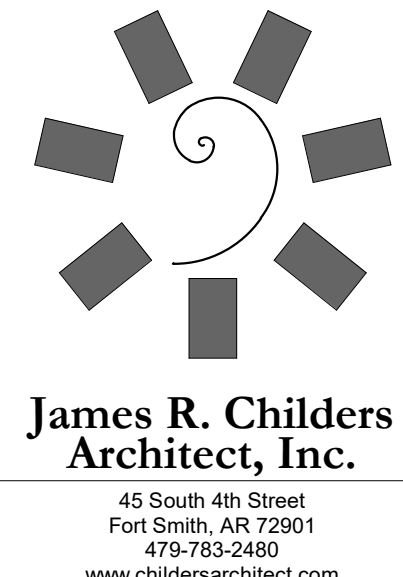
MECH YARD
 HYD PLAN



KEYNOTES
 23.09 14" CHWS/R LINES TO STUB UP FOR POSSIBLE FUTURE CHILLER.
 23.10 6" CHWS/R LINES UP THROUGH SLAB.

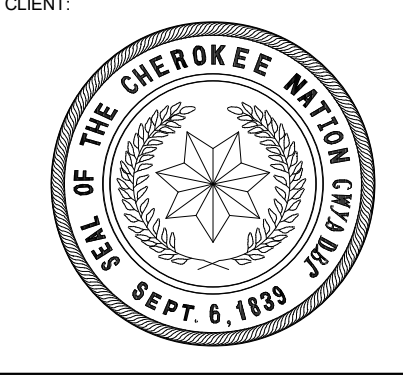


MECHANICAL YARD UNDERGROUND HYDRONIC PLAN
 1/4" = 1'-0"
 PLAN NORTH
 TRUE NORTH



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KEY PLAN:
 (Blank area for key plan)

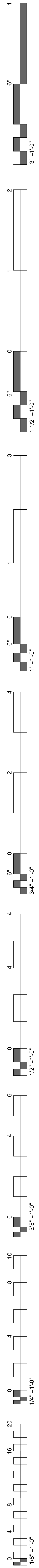
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#	DATE	REVISIONS	DESCRIPTION
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DATE: 12-06-19
 JOB NUMBER: 18-01.01

SHEET NUMBER:
 M8.02

MECH YARD UG
 HYD PLAN



KEYNOTES	
Key Value	Keynote Text
23.32	BOILER EMERGENCY STOP SWITCH INSTALLED BY DIVISION 26 CONTRACTOR (TYP 2). INSTALL SEPARATE FEED TO EACH BOILER. DO NOT DAISY CHAIN BETWEEN BOILERS. REFER TO SHEET ET.14.

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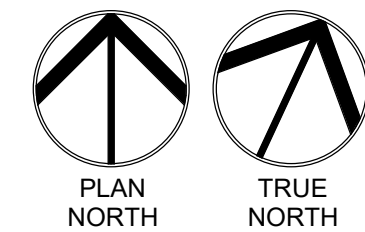
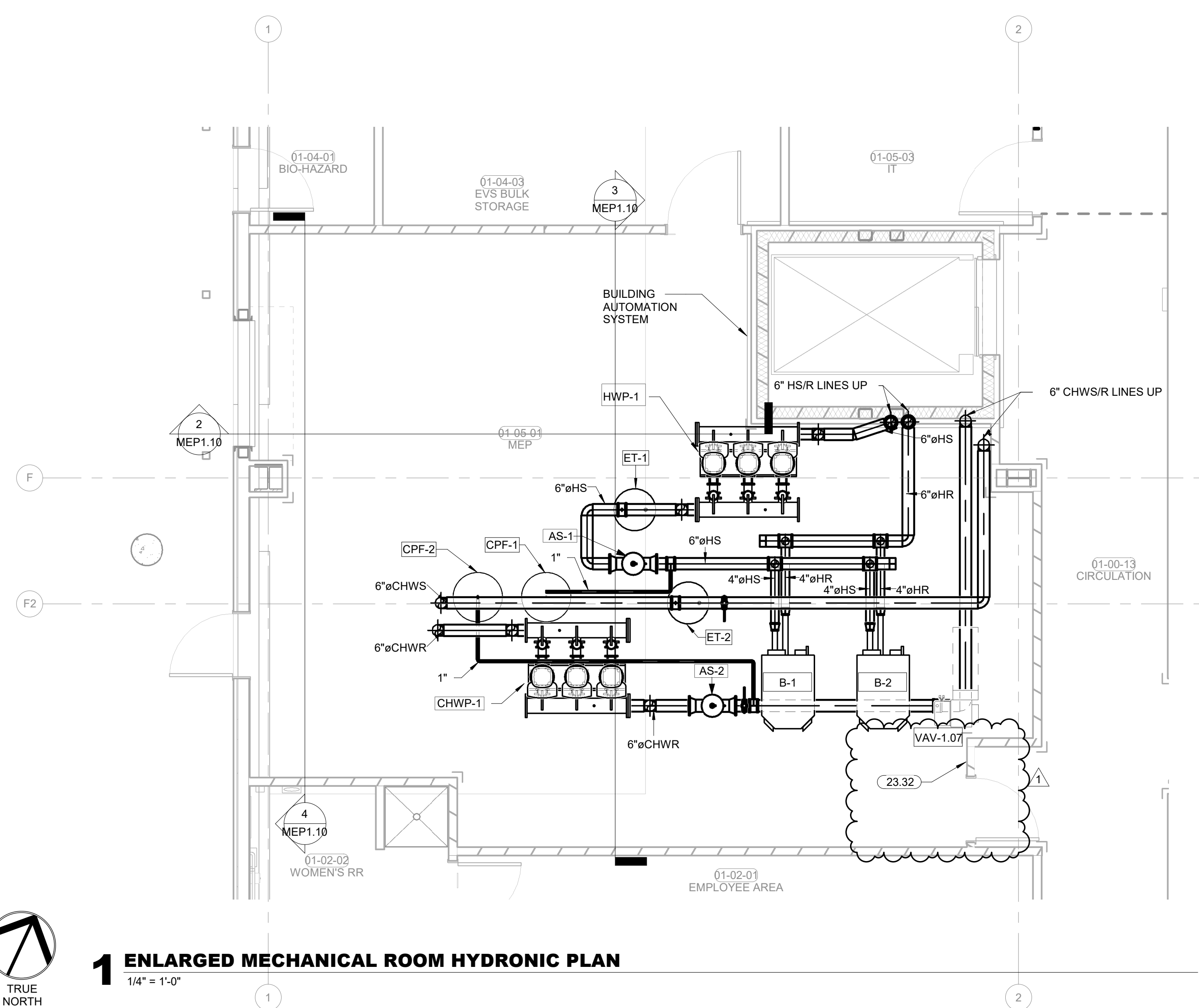
KEY PLAN

PROJECT PHASE
BID PACKAGE 02

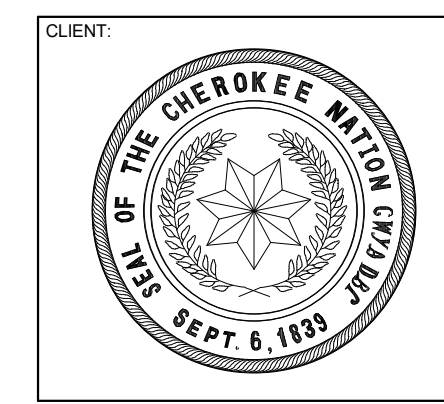
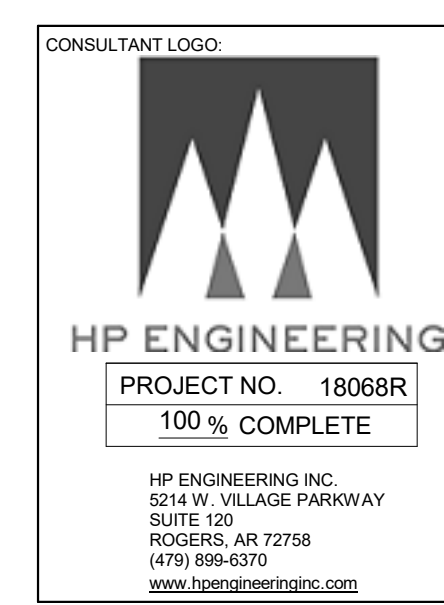
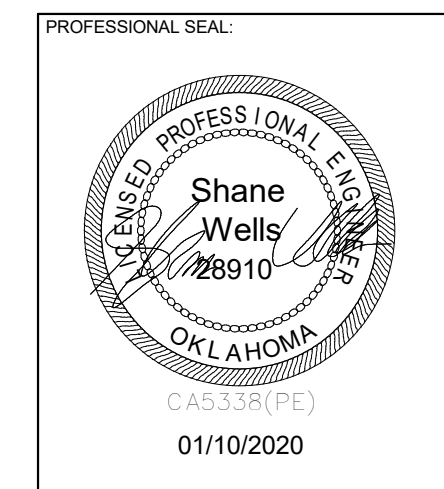
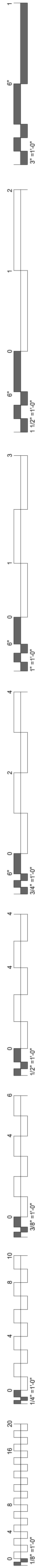
#	DATE	REVISIONS	DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 01	

DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
M8.10
ENLARGED MECH. ROOM HYDRONIC PLAN



1 ENLARGED MECHANICAL ROOM HYDRONIC PLAN
1/4" = 1'-0"



**WILMA P. MANKILLER HEALTH CENTER
EXPANSION**
 STILLWELL, OKLAHOMA

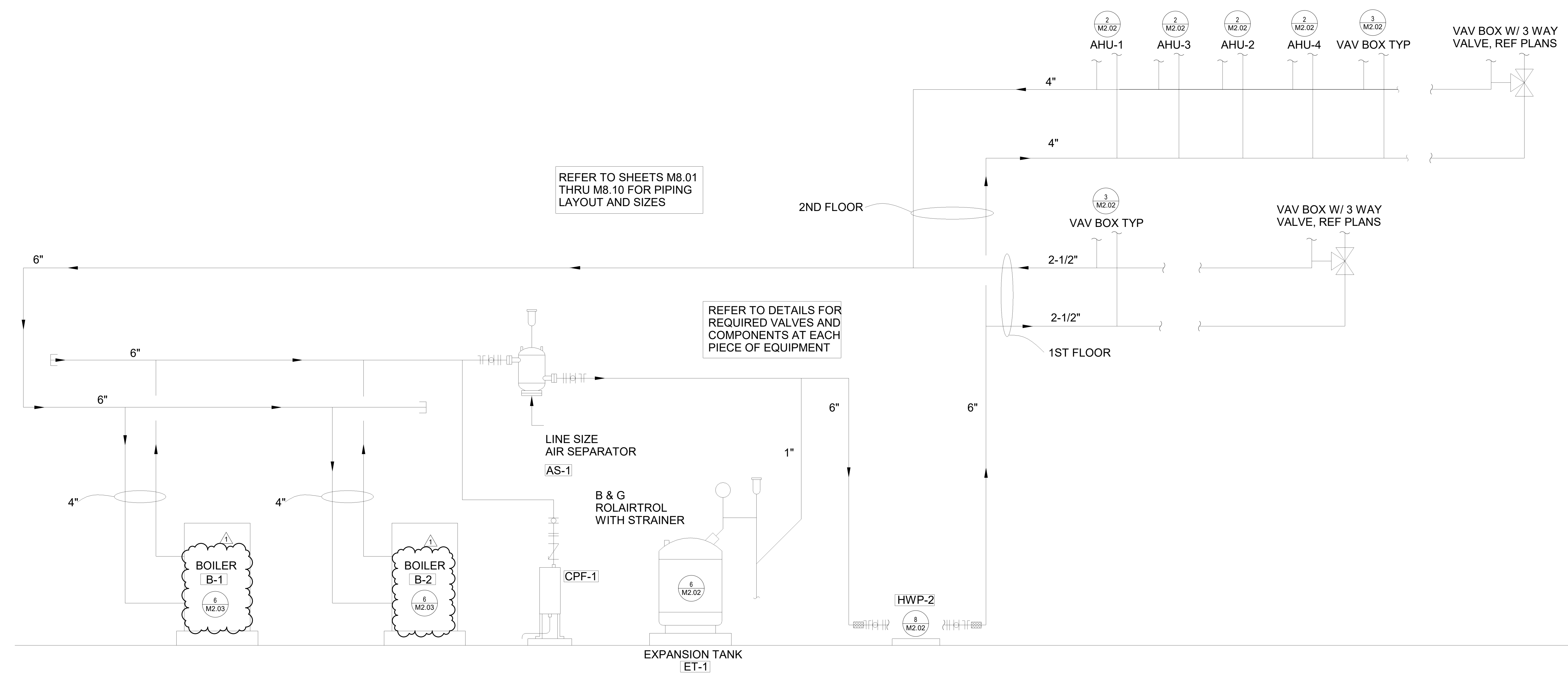
KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

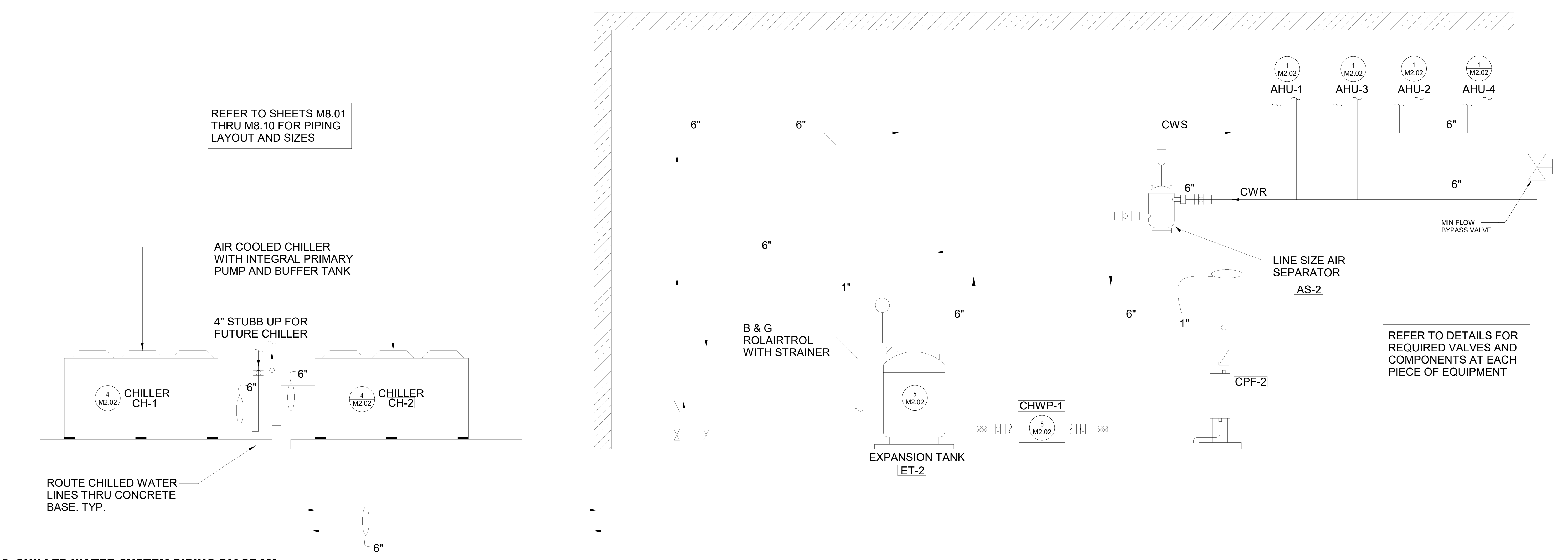
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DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
M8.11
HYDRONIC
PIPING
DIAGRAMS



2 HEATING WATER SYSTEM PIPING DIAGRAM
N.T.S.



1 CHILLED WATER SYSTEM PIPING DIAGRAM
N.T.S.

ROUTE CHILLED WATER
LINES THRU CONCRETE
BASE. TYP.

GENERAL POWER NOTES

- ALL RECEPTACLES SHALL BE GROUNDING TYPE.
- ALL RECEPTACLES INSTALLED IN BATHROOMS, OUTDOORS AND KITCHENS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- COORDINATE MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE FEEDERS, DISCONNECTS AND MAINTENANCE RECEPTACLES SO THAT THEY WILL NOT INTERFERE WITH OPERATION OR MAINTENANCE OF MECHANICAL EQUIPMENT.
- PROVIDE POWER TO MECHANICAL, PLUMBING, AND ALL OTHER EQUIPMENT AS REQUIRED FOR PROPER OPERATION. COORDINATE AND VERIFY EACH PIECE OF EQUIPMENT'S POWER/CONTROL REQUIREMENTS PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT. REFER TO RELATED MECHANICAL, PLUMBING, AND OTHER RELATED DOCUMENTS FOR LOCATIONS OF EQUIPMENT AND REQUIRED CLEARANCES AROUND EQUIPMENT.
- COORDINATE EXACT MOUNTING HEIGHT OF EACH ABOVE COUNTER RECEPTACLE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- ALL OUTLETS LOCATED IN AREAS REQUIRING GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION PER NEC-210 SHALL CONSIST OF A GFCI PROTECTED DEVICE, EVEN IF NOT SPECIFICALLY INDICATED IN THE DRAWINGS. THE GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AS DEFINED IN THE NEC. ALL RECEPTACLES SUPPLIED THROUGH A GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE MAINTAINED UNPROTECTED.
- COORDINATE EXACT LOCATION OF ALL FLOOR BOXES WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. VERIFY EACH TYPE OF FLOOR BOX WITH INTENDED USE AND INSTALLATION. COORDINATE THIS WITH THE CONSTRUCTION OF FLOOR TYPE TO BE INSTALLED IN PRIOR TO ROUGH-IN SO AS TO ENSURE A CLEAN AND PROPER INSTALLATION. FOR INSTALLATIONS IN CONCRETE SLAB WITH OVERLAY OF CARPET, WOOD, AND/OR OTHER SIMILAR MATERIALS, LEAVE A 48"x48" BLOCK OUT WHEN FLOOR IS POURED SO THAT FINAL LOCATION OF FLOOR BOX MAY BE DETERMINED IN THE FIELD.

GENERAL LIGHTING NOTES

- WHERE RECESSED LIGHTING FIXTURES ARE INDICATED IN A FIRE RATED CEILING, PROVIDE A ONE-HOUR RATED "TENT" FOR FIXTURE.
- PROVIDE ALL MOUNTING AND SUPPORT HARDWARE FOR LIGHT FIXTURES TO MEET SPECIFIED MOUNTING HEIGHTS. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF FIXTURES.
- CONNECT "UN-SWITCHED" HOT CONDUCTOR FROM CIRCUIT SERVING SPACE LIGHTING TO EACH EXIT SIGN, EMERGENCY LIGHT, AND ANY FIXTURE DESIGNATED AS NIGHT LIGHT SERVING THE SPACE.
- COORDINATE ALL DEVICES AND WALL-MOUNTED LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL WALL FINISHES AND ELEVATIONS. SPECIAL ATTENTION AND COORDINATION OF WALL TYPES AND FINISHES IS REQUIRED PRIOR TO ROUGH-IN. EXACT LOCATION OF DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN TO AVOID INSTALLATION ON SPECIAL ARCHITECTURAL WALL FINISHES. DEVICES NOT PROPERLY COORDINATED WITH THE SPECIAL WALL FINISHES INDICATED IN THE CONSTRUCTION DOCUMENTS PRIOR TO ROUGH-IN SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.
- ELECTRICAL CONTRACTOR SHALL VERIFY CHEVRON DIRECTIONS OF ALL EXIT SIGNS PRIOR TO ORDERING.
- COORDINATE AND PROVIDE DIMMER SWITCHES RATED FOR AND COMPATIBLE WITH INTENDED LIGHT FIXTURE(S) TO BE CONTROLLED. CIRCUITS CONTROLLED WITH LINE-VOLTAGE DIMMER SWITCHES SHALL NOT SHARE NEUTRAL CONDUCTORS.
- FOR GENERATOR FED EXIT AND EMERGENCY LIGHTS, CIRCUITS SHALL HAVE RELAY FUNCTION CAPABILITY TO BE CONTROLLED BY THE GENERATOR.
- WHERE SHOWER LIGHT SWITCHES ARE ACCESSIBLE FROM SHOWER, EC SHALL USE NYLON SCREWS IN FACEPLATE.

GENERAL LOW VOLTAGE NOTES

- PROVIDE BACK BOX AND CONDUIT TO ABOVE THE ACCESSIBLE CEILING AS REQUIRED FOR THE HVAC BUILDING AUTOMATION SYSTEM DEVICES. COORDINATE EXACT LOCATIONS AND OTHER REQUIREMENTS WITH RELATIVE MEP DRAWINGS AND THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. THERMOSTATS, TEMPERATURE SENSORS, STATIC PRESSURE SENSORS, HUMIDITY, ETC. SHALL BE INSTALLED AT THE SAME ELEVATION AS THE LIGHT SWITCHES UNLESS REQUIRED OTHERWISE.
- PROVIDE (1) 1/2" CONDUIT, AND 4" SQUARE BOX WITH SINGLE GANG DEVICE RING FOR ALL THERMOSTAT LOCATIONS INDICATED ON THE MECHANICAL DRAWINGS. ROUTE CONDUIT FROM BOX TO ACCESSIBLE CEILING CAVITY. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT SYSTEMS. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE CABLE TRAY ABOVE CEILING IN ALL CORRIDORS FOR ROUTING OF LOW VOLTAGE CABLES.
- PROVIDE 4" WIDE X 4" TALL X 3/4" FIRE RATED, PAINTED CDX PLYWOOD BACKBOARD WHERE SHOWN ON DRAWINGS OR AS REQUIRED FOR TELEPHONE, CATV, ALARM SYSTEM EQUIPMENT, ETC. COORDINATE EXACT LOCATIONS WITH RESPONSIBLE CONTRACTOR(S).
- FURNISH AND INSTALL A TELEPHONE SERVICE CONDUIT(S) PER TELEPHONE SERVICE PROVIDER SPECIFICATIONS. STUB UP AT DESIGNATED EQUIPMENT BOARD.
- FURNISH AND INSTALL ONE #6 COPPER INSULATED GROUND WIRE FROM THE ELECTRICAL SERVICE GROUND TO THE TELEPHONE EQUIPMENT BOARD. LEAVE 36" EXTRA WIRE AT FREE END.
- FURNISH AND INSTALL A CABLE TV SERVICE CONDUIT(S) PER CABLE TV PROVIDER SPECIFICATIONS. STUB UP AT SERVICE POINT.
- REFER TO SITE UTILITIES PLAN AND COORDINATE ENTIRE INSTALLATION WITH CABLE TV SERVICE PROVIDER.
- PROVIDE ROUGH-IN OF ALL BACK BOXES, CONDUITS (WITH BUSHINGS AND PULL STRINGS) AND OTHER WIRE WAYS AS REQUIRED FOR LOW VOLTAGE SYSTEMS. COORDINATE ALL REQUIRED LOCATIONS WITH OWNER AND RESPONSIBLE CONTRACTOR(S).
- ALL CABLES PULLED IN CONDUIT ROUTED UNDERGROUND SHALL BE WET RATED.
- REFER TO SITE UTILITIES PLAN AND COORDINATE ENTIRE INSTALLATION WITH PHONE SERVICE PROVIDER.

GENERAL ELECTRICAL NOTES

- SPECIAL ATTENTION SHALL BE GIVEN TO ALL RACEWAYS WITHIN FINISHED AREAS WITHOUT CEILING AND EXPOSED TO STRUCTURE. IN GENERAL, ALL RACEWAYS SHALL BE CONCEALED WITHIN WALLS, ABOVE STRUCTURE FINISH, OR BELOW FLOOR SLABS WHEN SPECIFIED. WHERE EXPOSED CONDITIONS ARE NECESSARY OR UNAVOIDABLE DUE TO OTHER CONDITIONS, THE BID SHALL INCLUDE ANY REASONABLE MEANS TO MINIMIZE THE AMOUNT OF SURFACE MOUNTED EQUIPMENT. PRIOR TO ROUGH-IN, COORDINATE ALL EXPOSED RACEWAY AND BOX CONDITIONS WITH ARCHITECT PRIOR TO CONSTRUCTION OF WALLS, ROOF DECK, OR FLOOR SLABS. ATTACHMENT TO ROOF DECK OR JOIST WEEBINGS IS NOT ALLOWED. MAINTAIN A MINIMUM SPACING OF 1-1/2" FROM CONDUIT TO ROOF DECK. IN AREAS WHERE EXPOSED RACEWAYS ARE REQUIRED, INSTALL SYSTEMS SQUARE AND TIGHT TO STRUCTURE AND PAINT TO MATCH THE STRUCTURE PER ARCHITECT AND/OR OWNER SPECIFICATIONS. FAILURE TO PROPERLY COORDINATE THE ROUTING OF EXPOSED RACEWAYS MAY RESULT IN RELOCATION OF SUCH RACEWAYS AT NO ADDITIONAL COST TO THE OWNER.
- OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RESISTANT RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRED STOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING. PROVIDE PENETRATION FIRE STOPPING WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479. FIRE STOPPING SHALL NOT BE LESS THAN FIRE RESISTANCE RATING OF CONSTRUCTED PENETRATIONS.
- FIELD VERIFY LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, INCLUDING POWER POLES, TELEPHONE PEDESTALS, OVERHEAD AND UNDERGROUND FEEDERS, METERS, PANELS, DEVICES, ETC. PROVIDE FOR COORDINATION WITH EXISTING EQUIPMENT.
- CONDUCTORS FOR BRANCH CIRCUITS AS DEFINED IN ARTICLE 100, SHALL BE SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST LOAD, AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST LOAD DOES NOT EXCEED 5%.
- ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, STATE LAWS, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIAL, AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT.
- ALL ELECTRIC MATERIALS AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. OR EQUALLY LISTED.
- SUBMIT TO THE OWNER CERTIFICATES OF INSPECTIONS IN DUPLICATE FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION.
- THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED.
- THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND QUALIFIED PERSONNEL OR FIRM TO PERFORM ALL REQUIRED TESTS.
- NO EQUIPMENT SHALL BE ENERGIZED UNTIL ALL TEST AND ADJUSTMENTS HAVE BEEN MADE. THREE COPIES OF ALL TEST RESULTS SHALL BE DELIVERED TO THE OWNER.
- JUNCTION BOXES LOCATED ABOVE GRID CEILING SHALL BE LOCATED NO GREATER THAN 4 FEET ABOVE THE CEILING IN A LOCATION ACCESSIBLE VIA A LADDER FROM THE ROOM BELOW.
- ALL WIRING DEVICE COVERPLATES SHALL INDICATE PANELBOARD AND CIRCUIT SERVING THE DEVICE. UTILIZE CLEAR VINYL (BLACK LETTERING) IDENTIFICATION LABELS MANUFACTURED BY 3M COMPANY (OR APPROVED EQUIVALENT).
- THE TYPE OF CONDUIT SHALL BE AS FOLLOWS FOR ALL FEEDERS AND DISTRIBUTION CIRCUITS, UNLESS OTHERWISE SPECIFIED. APPLICATION - TYPE OF CONDUIT BURIED IN CONCRETE OR OUTDOORS - PVC WITH RIGID GALVANIZED STEEL ELBOW/SERVICE ENTRANCE - GALVANIZED RIGID STEEL OR SERVICE UTILITY SPECIFICATIONS.
- SEISMIC PROTECTION FOR SEISMIC CONCERNS OF ALL BUILDING SYSTEMS INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING, AND ELECTRICAL, MUST MEET MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES FOR BUILDINGS' CLASSIFIED SEISMIC USE GROUP AND SEISMIC DESIGN CATEGORY. ANY REQUIREMENTS FOR SEISMIC PROTECTION MEASURES TO BE APPLIED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND/OR FEDERAL CODES AND WITH MANUFACTURER'S REQUIREMENTS, THE MOST STRINGENT SHALL APPLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE TYPE AND LOCATION OF SEISMIC RESTRAINTS REQUIRED FOR THE VARIOUS SYSTEM'S ELEMENTS CONTAINED IN THE CONSTRUCTION DOCUMENTS BASED ON THE RELATED SEISMIC CODE CRITERIA, THE SIZE AND WEIGHT OF THE SUPPORTED ELEMENT AND THE DISTANCE FROM STRUCTURE THAT THE ELEMENT WILL BE INSTALLED. IF REQUIRED BY LOCAL, STATE, FEDERAL CODES AND/OR OTHER AUTHORITY HAVING JURISDICTION (AHJ) THE CONTRACTOR SHALL SUBMIT DESCRIPTIVE CATALOG DATA OF SEISMIC RESTRAINTS, SHOP DRAWINGS SHOWING THE TYPES, LOCATIONS AND INSTALLATION DETAILS OF SEISMIC RESTRAINTS AND CALCULATIONS SHOWING THAT THE SEISMIC RESTRAINTS MEET THE SEISMIC REQUIREMENTS TO THE LOCAL AHJ FOR REVIEW AND APPROVAL. CALCULATIONS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE PROJECT LOCATION AND EMPLOYED BY THE MANUFACTURER OF THE SEISMIC RESTRAINT PRODUCTS. CALCULATIONS SHALL INCLUDE DEAD LOADS, STATIC SEISMIC LOADS AND CAPACITY OF MATERIALS UTILIZED FOR CONNECTIONS TO EQUIPMENT AND STRUCTURE.
- UNLESS NOTED OTHERWISE PROVIDE MINIMUM #8 AWG CONDUCTORS IN 1" CONDUIT(S) FOR ALL UNDERGROUND SITE POWER AND LIGHTING CIRCUITS. INCREASE CONDUCTOR AND RELATED CONDUIT SIZE AS NOTED OR OTHERWISE REQUIRED TO LIMIT VOLTAGE DROP TO LESS THAN 5% FOR THE ENTIRE LENGTH OF SYSTEM.
- UNDERGROUND UTILITIES/FEEDERS/BRANCH CIRCUITS/ETC. SHALL NOT BE ROUTED THROUGH OR WITHIN 25 FEET OF ANY AREAS DEDICATED FOR FUTURE BUILDING ADDITION.
- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW ALL GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS.
- INSTALL EQUIPMENT IN A MANNER TO REMAIN ACCESSIBLE WITH REASONABLE MEANS BY THE OWNER FOLLOWING COMPLETION OF WORK. SPECIAL ATTENTION AND ADDITIONAL COORDINATION IS EXPECTED IN AREAS OF THE BUILDING WHERE THE CEILING AND STRUCTURE HEIGHTS HAVE SIGNIFICANT DIFFERENT ELEVATIONS. EQUIPMENT REQUIRING POSSIBLE FUTURE ACCESS SHALL BE INSTALLED SUCH THAT IT MAY BE SAFELY ACCESSED FROM A STANDARD STEP LADDER OR PERSONNEL LIFT SUITABLE FOR THE LOCATION AND CEILING HEIGHT, WITHOUT REMOVING OR DAMAGING THE CEILING GRID STRUCTURE.
- COORDINATE ALL CEILING MOUNTED ELECTRICAL ITEMS WITH OTHER DISCIPLINES, WITH CEILING, AND STRUCTURE. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
- ROOM NAMES/NUMBERS SHOWN IN PANELBOARD SCHEDULES ARE PER ARCHITECTURAL FLOOR PLANS. CONTRACTOR SHALL PROVIDE FINALIZED PANELBOARD SCHEDULES AT COMPLETION OF PROJECT WITH OWNER PROVIDED ROOM NAMES/NUMBERS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING SYSTEMS (AS REQUIRED) IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE MECHANICAL WORK AS CALLED FOR IN MECHANICAL SPECIFICATIONS AND PLANS.
- PROVIDE A MINIMUM OF (3) SPARE 1" CONDUITS FROM RECESSED PANELBOARD, UP TO ACCESSIBLE CEILING SPACE.
- FIELD MOUNTED DEVICES SUCH AS SWITCHES, MOTOR STARTERS, RECEPTACLES, ETC., ARE SHOWN IN THEIR APPROXIMATE LOCATION. SWITCH MOUNTING HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR AND RECEPTACLE MOUNTING HEIGHT SHALL BE 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- PROVIDE EMT WITH PROPERLY INSTALLED COMPRESSION OR SET-SCREW TYPE FITTINGS AND NON INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL RACEWAYS SERVING EXHAUST FANS AND OTHER FAN ROOMS TO COMPATIBLE WITH LOCAL AND STATE VOLTAGE DESIGNATED SPARE CIRCUIT BREAKERS SHALL BE PLACED IN THE OFF POSITION.
- PROVIDE SPD AS REQUIRED FOR OWNER PROVIDED EQUIPMENT, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ACCESS CONTROL SYSTEM, COMMUNICATION SYSTEM, DATA SYSTEM, SECURITY SYSTEM.

ABBREVIATIONS

AC	ABOVE COUNTER	IG	ISOLATED GROUND
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
E	EXISTING	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
EC	ELECTRICAL CONTRACTOR	NIC	NOT IN CONTRACT
EP	EXPOSITION PROOF	NL	NIGHT LIGHT
GFI	GROUND FAULT CIRCUIT INTERRUPTER	UG	UNDERGROUND
GR	GROUND FLOOR	UN	UNLESS OTHERWISE NOTED
HP	HORSE POWER	WP	WEATHERPROOF
		WR	WEATHER RESISTANT

WIRING

WIRING CONCEALED IN CEILING OR WALLS UNLESS OTHERWISE NOTED. ALL WIRE IS NUMBER #12 AWG MINIMUM.
 EXPOSED RACEWAY.
 UNDERGROUND RACEWAY. TYPE, SIZE, CONDUCTORS, AND ARRANGEMENT BY NOTATION OR SCHEDULE.

SWITCHES

S* SWITCH MOUNTED AT +48" SINGLE POLE UNLESS OTHERWISE NOTED. REFERENCE SCHEDULE ON SHEET E2.01 FOR ALL LIGHTING DEVICES TYPES. LOWER CASE LETTER, WHEN PRESENT, INDICATES FIXTURES CONTROLLED.
 *ABBREVIATIONS FOR SWITCH:
 2 DOUBLE POLE SWITCH
 3 3-WAY SWITCH
 4 4-WAY SWITCH
 D DIMMER SWITCH (SHALL BE COMPATIBLE WITH FIXTURE BEING DIMMED)
 FAN SWITCH (DUAL OPERATION WITH DIMMER)
 K KEYSWITCH
 M MOTOR RATED SWITCH
 OS DUAL TECHNOLOGY OCCUPANCY SENSOR
 V VOLUME CONTROL SWITCH
 OS CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.

RECEPTACLES

DUPLEX RECEPTACLE (NEMA 5-20R)
 DUPLEX RECEPTACLE (NEMA 5-20R); MOUNTED 8" ABOVE COUNTERTOP.
 (ALL RECEPTACLE TYPES) WITH USB CHARGING PORTS
 GFI DUPLEX RECEPTACLE (NEMA 5-20R); SELF-TEST TYPE
 GFI DUPLEX RECEPTACLE (NEMA 5-20R); SELF-TEST TYPE; MOUNTED 8" ABOVE COUNTERTOP.
 QUADRUPLEX RECEPTACLE (TWO NEMA 5-20R)
 SPECIAL RECEPTACLE; VERIFY NEMA TYPE WITH MANUFACTURER

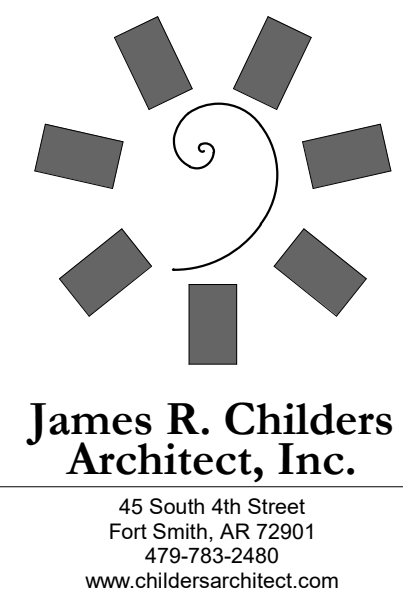
FLOOR BOX WITH DATA; LEGRAND WIREMOLD SERIES RFB46-OG OR RFB66-OG WITH EVOLUTION COVER. ROUTE (2) 1" FOR DATA FROM FLOOR BOX TO NEAREST ACCESSIBLE CEILING SPACE. ON FLOOR LEVELS WITH ACCESSIBLE SPACE BELOW, USE POKE-THRU STYLE FLOOR BOXES; LEGRAND 6A SERIES. SEE ARCHITECTURAL PLANS FOR LOCATION UNLESS NOTED OTHERWISE.
 TELEVISION; PROVIDE HUBBELL NSAV62M JUNCTION BOX (OR EQUAL) WITH 1/2" CONDUIT FOR POWER AND 1" CONDUIT (WITH PULL STRINGS) FOR AV ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE CONNECTIONS FOR POWER, DATA, COAX, AND HDMI MOUNT AT +60" AFF UNLESS OTHERWISE NOTED. CONFIRM HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.

SINGLE RECEPTACLE (NEMA 5-20R)
 SPLIT WIRED DUPLEX RECEPTACLE (NEMA 5-20R)
 DIRECT EQUIPMENT CONNECTION; VERIFY CONNECTION DETAILS WITH MANUFACTURER

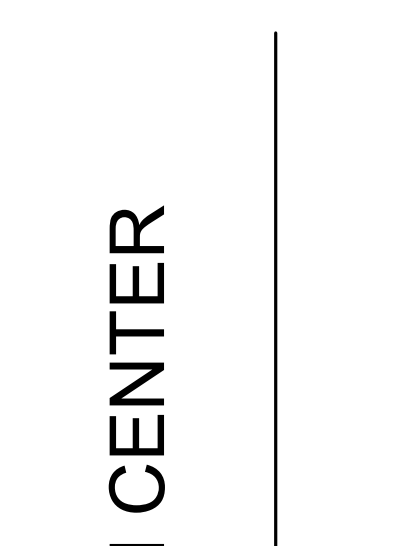
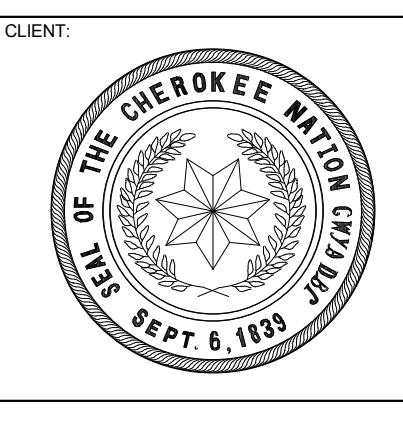
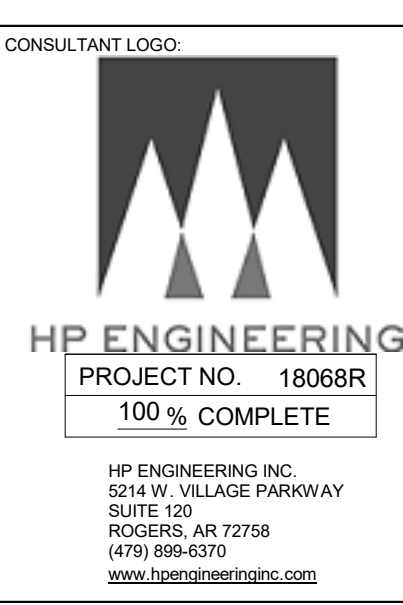
FLOOR BOX; HUBBELL 3SF65 WITH 3SFR6 COVER. EC SHALL ROUTE A 1" FOR FLOOR BOX TO NEAREST ACCESSIBLE CEILING SPACE. ON FLOOR LEVELS WITH ACCESSIBLE SPACE BELOW, USE POKE-THRU STYLE FLOOR BOXES; HUBBELL P20X2 SERIES. SEE ARCHITECTURAL PLANS FOR LOCATION UNLESS OTHERWISE NOTED.
 CEILING MOUNTED RECEPTACLE (NEMA 5-20R)

PANELS AND MISC.

LIGHT OR POWER PANEL
 4x4 JUNCTION BOX.
 EQUIPMENT DISCONNECT; INTERIOR DISCONNECTS SHALL BE NEMA 1 TYPE. EXTERIOR DISCONNECTS SHALL BE NEMA 3R TYPE. SIZE AS INDICATED IN THE PLANS AND PER NAMEPLATE RATING.
 PHONE/DATA; PROVIDE 4"x4", 30-1/4 CUBIC INCH OUTLET BOX AT 8" ABOVE COUNTER (UNLESS OTHERWISE NOTED) WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. REFER TO THE SYSTEMS PLANS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS. VERIFY NUMBER OF DROPS WITH OWNER.
 PHONE/DATA; PROVIDE 4"x4", 30-1/4 CUBIC INCH OUTLET BOX AT +18" (UNLESS OTHERWISE NOTED) WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. REFER TO THE SYSTEMS PLANS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS. VERIFY NUMBER OF DROPS WITH OWNER.
 PHONE/DATA; PROVIDE 4"x4", 30-1/4 CUBIC INCH OUTLET BOX IN CEILING. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. REFER TO THE SYSTEMS PLANS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS. VERIFY NUMBER OF DROPS WITH OWNER.
 TELEVISION; PROVIDE 4"x4" JUNCTION BOX WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. CONFIRM HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO THE SYSTEMS PLANS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS. VERIFY NUMBER OF DROPS WITH OWNER.
 CEILING MOUNTED SPEAKER
 CARD READER; REFER TO SYSTEM PLANS AND SPECIFICATIONS. AT EACH DOOR WITH A CARD READER PROVIDE ALL ELECTRICAL CONNECTIONS FOR DOOR HARDWARE SYSTEMS AS REQUIRED TO MAKE A COMPLETE OPERATIONAL SYSTEM. WHERE REQUIRED, BACK TO BACK 2X4" BOXES ARE ALLOWED FOR CARD READER AND PUSH TO EXIT SWITCH. PROVIDE POWER TO THE LOCK SYSTEM IN THE I.T. ROOM WHERE NEEDED BY CONTRACTOR INSTALLING SYSTEM.



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WILMA P. MANKILLER HEALTH CENTER EXPANSION
 STILLWELL, OKLAHOMA

KEY PLAN

PROJECT PHASE

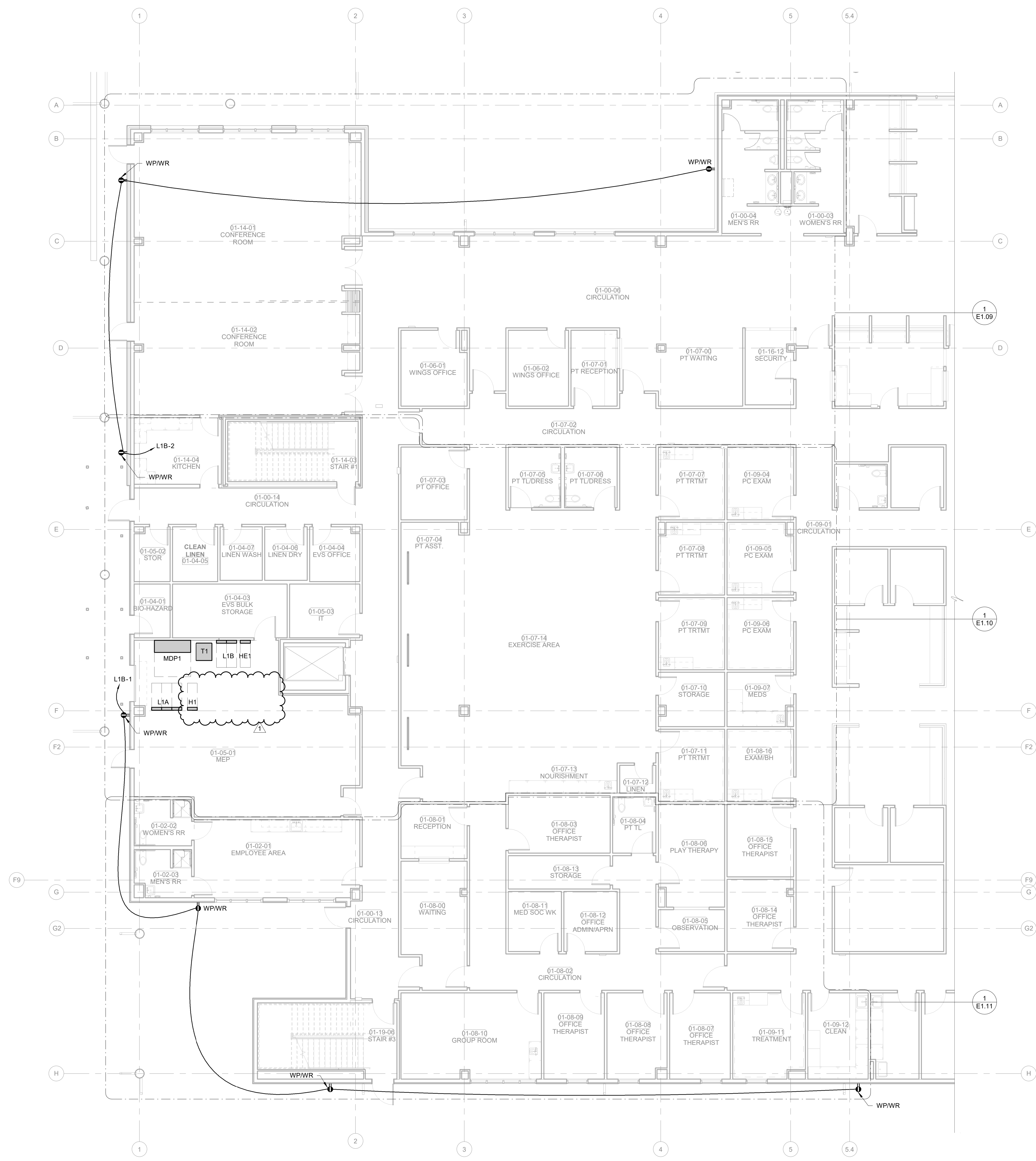
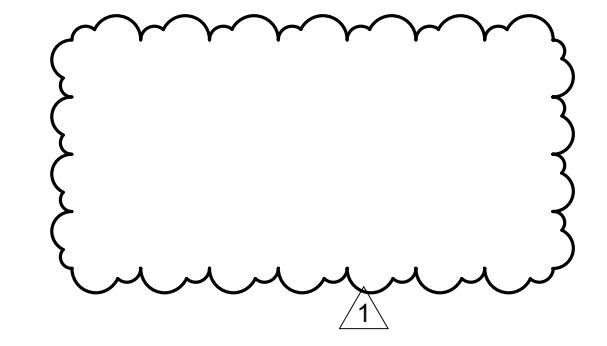
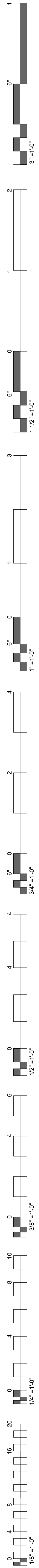
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DATE: 12-06-19 JOB NUMBER: 18-01.01

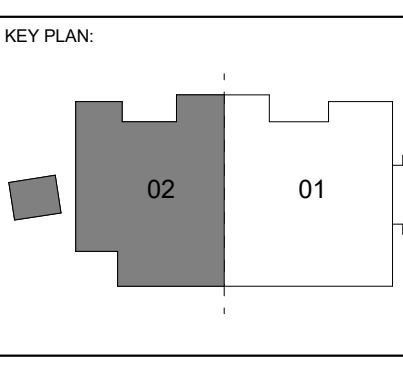
SHEET NUMBER: E1.01

ELECTRICAL NOTES AND LEGEND



1 POWER PLAN LEVEL 01 SECTOR 02
 1/8" = 1'-0"

**WILMA P. MANKILLER HEALTH CENTER
 EXPANSION**
 STILLWELL, OKLAHOMA



PROJECT PHASE

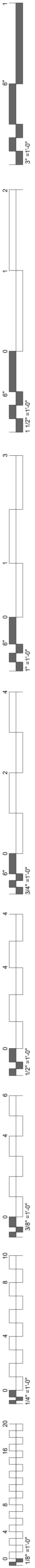
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#	DATE	REVISION DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 01

DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER: **E1.03**

**POWER PLAN
LEVEL 01
SECTOR 02**



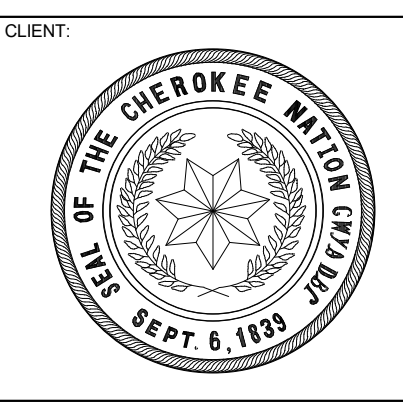
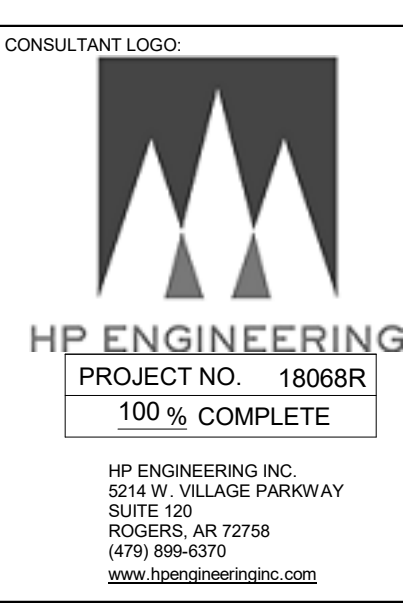
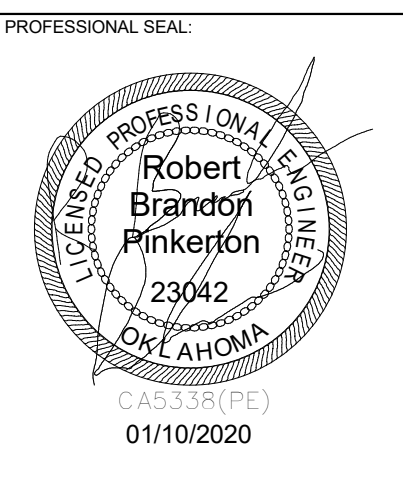
- ### KEYNOTES
- 26.26 *43 1/2" XRAY
 - 26.27 *48" EXPOSURE BUTTON, PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE.
 - 26.28 *43 1/2" REMOTE STATION, PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE.
 - 26.29 REFER TO DETAIL 4 ON SHEET Q3.2 FOR INSTALLATION HEIGHTS AND COORDINATION.
 - 26.30 REFER TO DETAIL 5 ON SHEET Q3.2 FOR INSTALLATION HEIGHTS AND COORDINATION.
 - 26.31 EXPOSURE BUTTON, COORDINATE MOUNTING HEIGHT WITH DENTAL EQUIPMENT PROVIDER.
 - 26.32 REMOTE STATION AND XRAY, COORDINATE MOUNTING HEIGHT WITH DETAL EQUIPMENT PROVIDER.
 - 26.33 REFER TO DETAIL 1 SHEET Q3.2 FOR INSTALLATION HEIGHTS AND COORDINATION.
 - 26.35 HOSPITAL GRADE RECEPTACLE
 - 26.36 REFER TO DETAIL 6 SHEET Q3.2 FOR INSTALLATION HEIGHTS AND COORDINATION.
 - 26.37 REFER TO DETAIL 3 SHEET Q3.2 FOR INSTALLATION HEIGHTS AND COORDINATION.
 - 26.42 MED GAS ALARM, COORDINATE POWER REQUIREMENTS WITH BENCO PLANS. PROVIDE ALL NECESSARY CABLE AND CIRCUITS FOR PROPER OPERATION.
 - 26.46 LOCATE ELEVATOR SERVICE GFCI INSIDE OF ELEVATOR CONTROL CABINET COORDINATE LOCATION WITH ELEVATOR INSTALLER PRIOR TO ROUGH IN.
 - 26.56 COORDINATE BENCO ABOVE CEILING EXHAUST FAN CONTROLS AND LOCATION WITH BENCO INSTALLER PRIOR TO ROUGH IN.

POWER PLAN NOTES

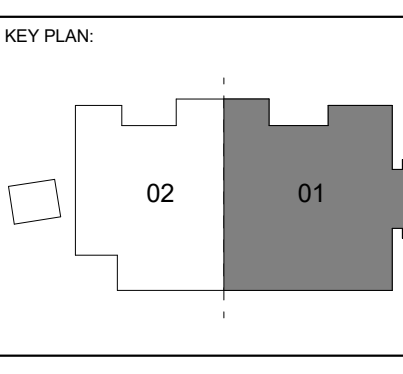
COORDINATE MOUNTING HEIGHTS FOR POWER ASSOCIATED WITH TV OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.
 E.G. SHALL COORDINATE ALL EQUIPMENT WITH THE I/O DESIGN DRAWINGS TO ENSURE PLACEMENT OF EQUIPMENT WORKS AS DESIGNED.
 GROUNDING OF RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN PATIENT CARE SPACES SHALL COMPLY WITH NEC 517.13.

DENTAL EQUIPMENT NOTES

VERIFY LOCATION AND ELECTRICAL REQUIREMENTS OF ALL DENTAL EQUIPMENT WITH DENTAL EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
 SEE Q SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.



**WILMA P. MANKILLER HEALTH CENTER
 EXPANSION**
 STILLWELL, OKLAHOMA

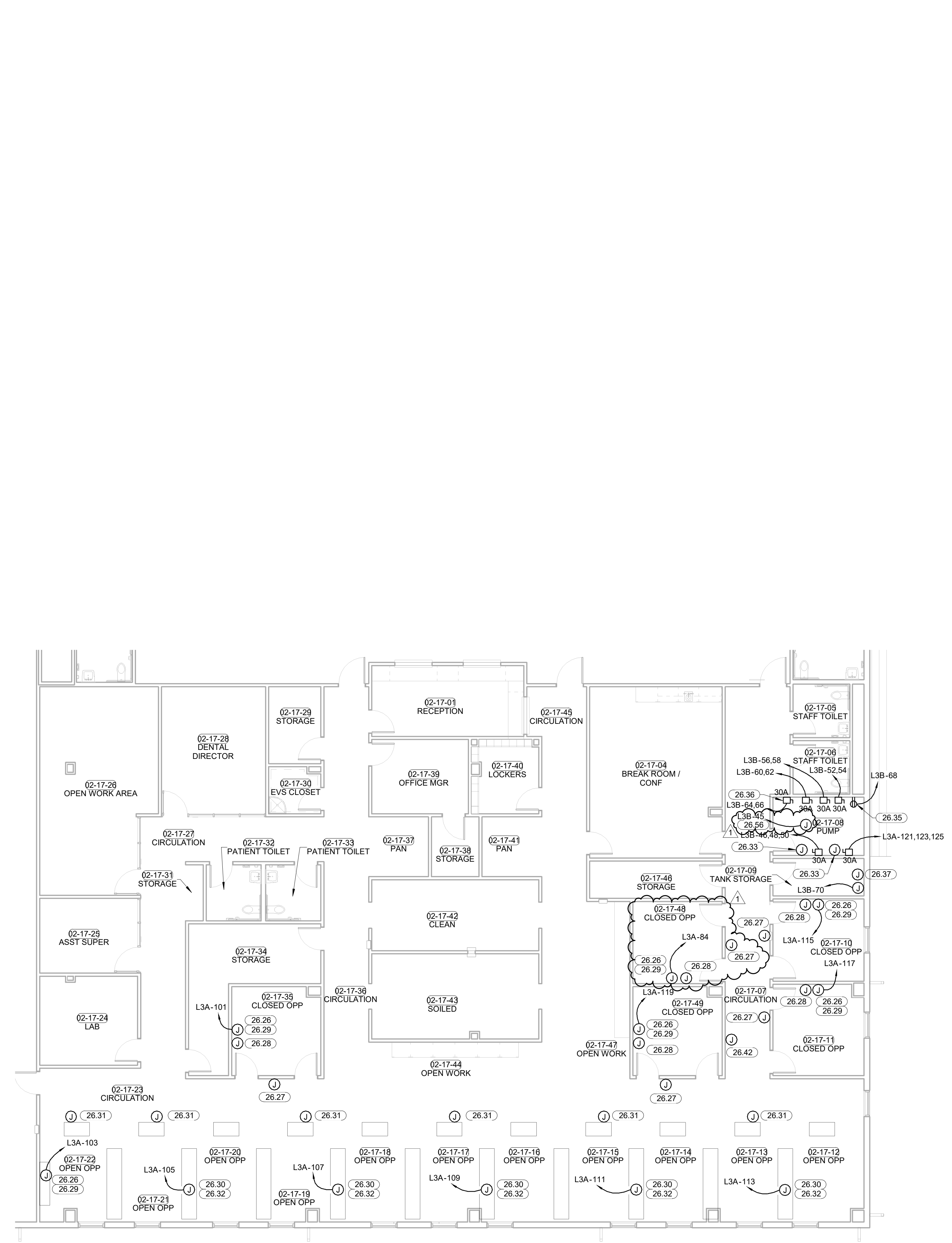


PROJECT PHASE
 BID PACKAGE 02

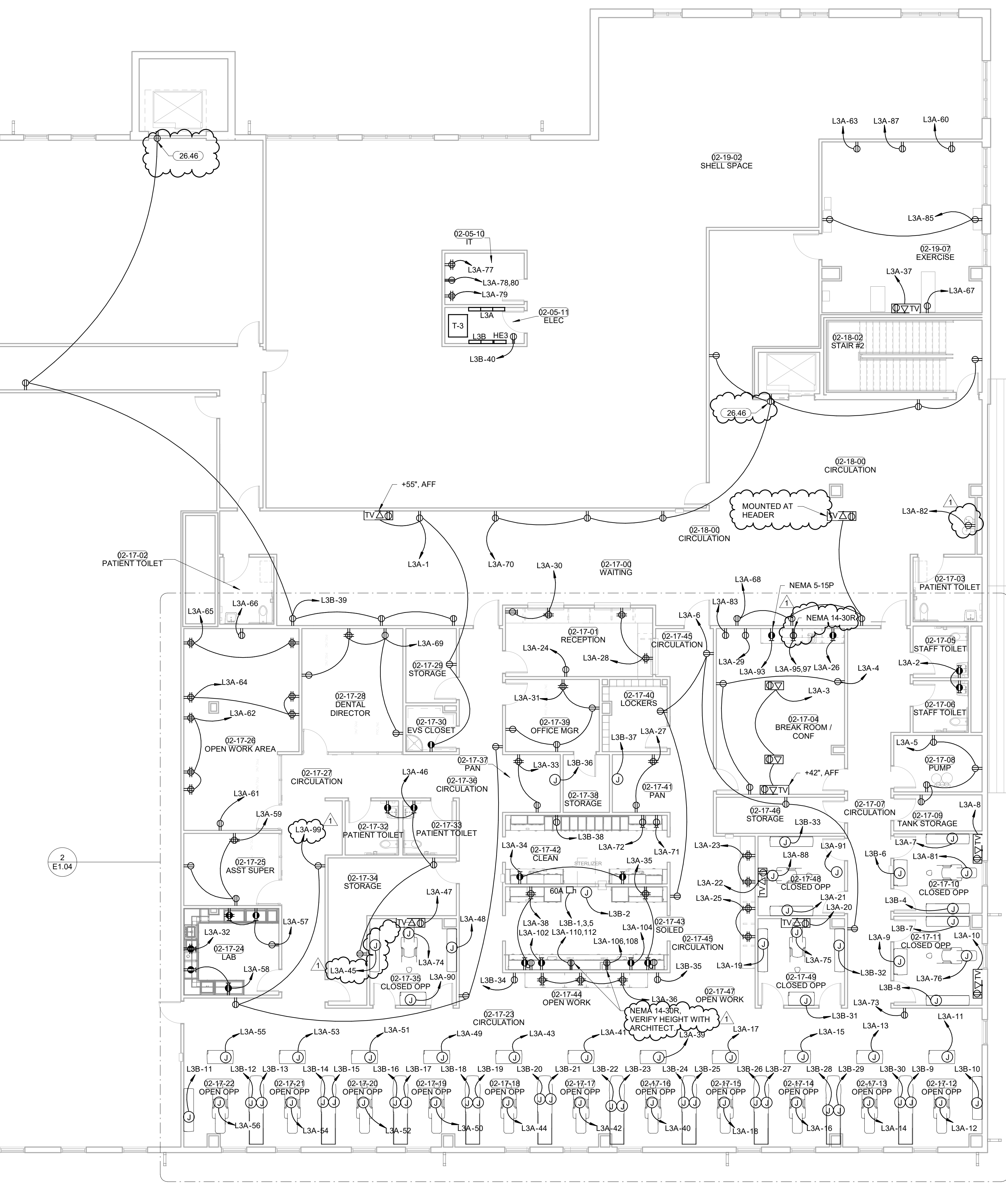
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DATE: 12-06-19 JOB NUMBER: 18-01.01

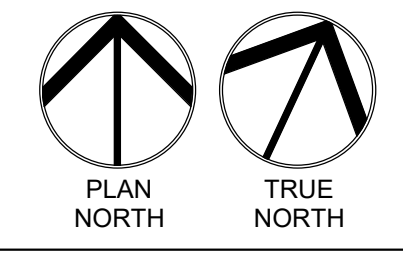
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E1.04
POWER PLAN LEVEL 02 SECTOR 01



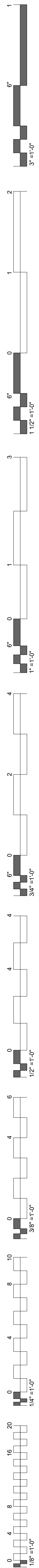
2 POWER PLAN LEVEL 02 SECTOR 01 - BENCO DENTAL POWER
 1/8" = 1'-0"



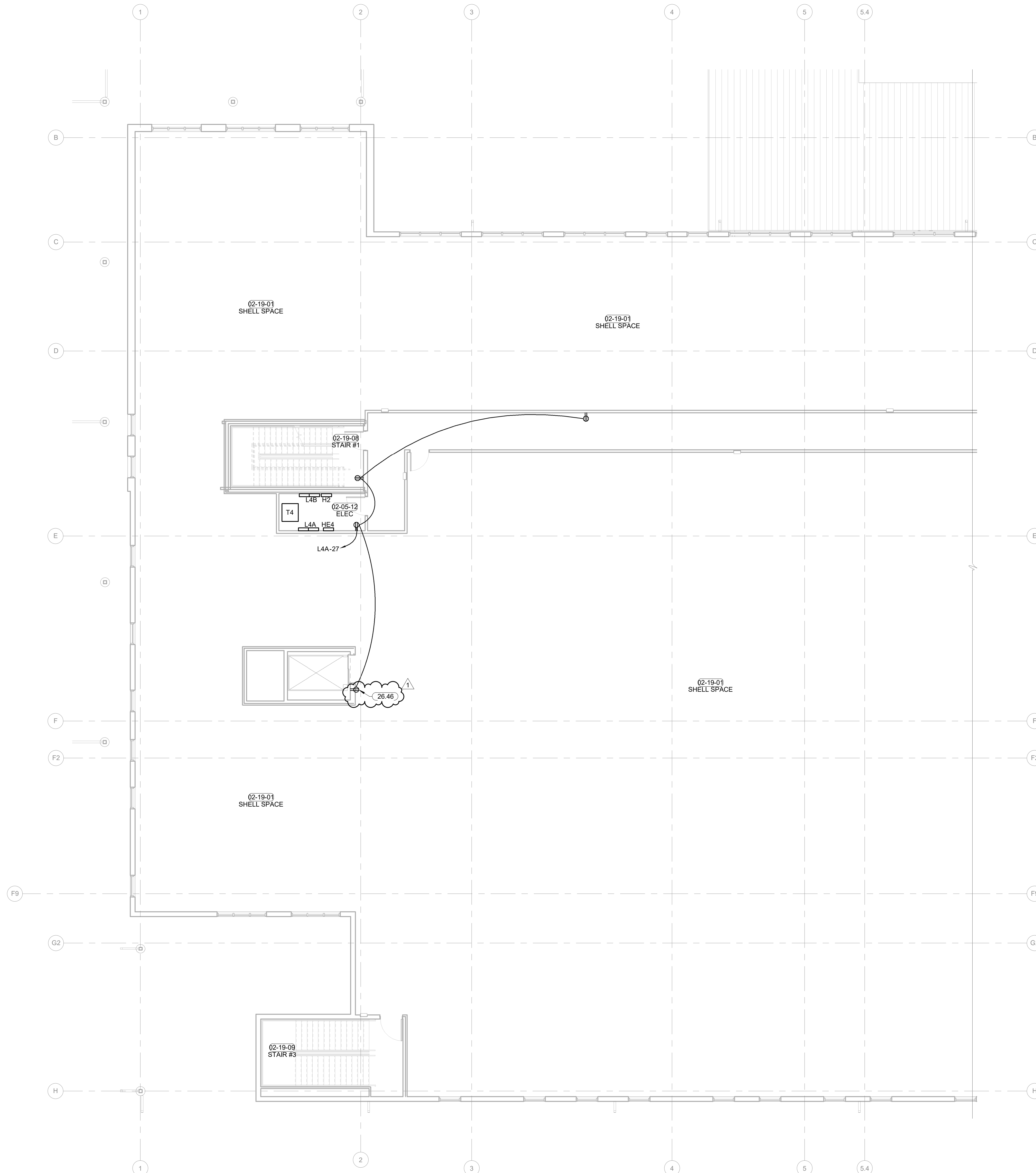
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 E1.04



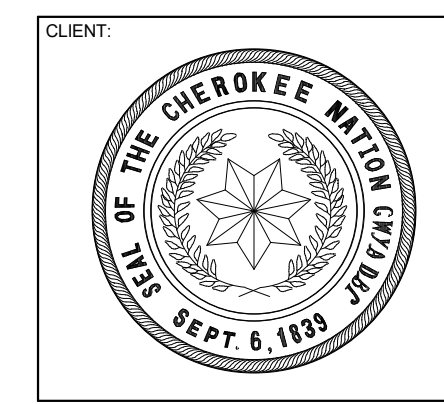
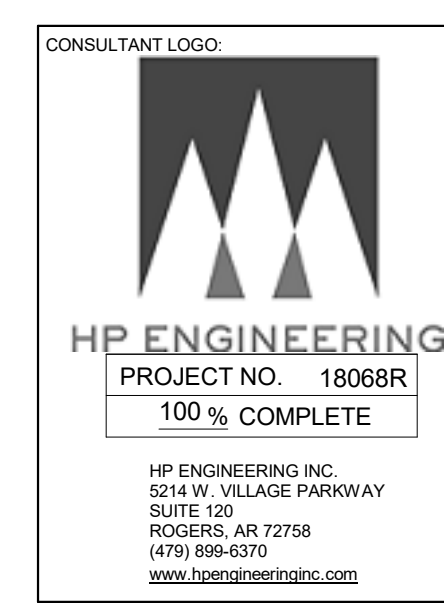
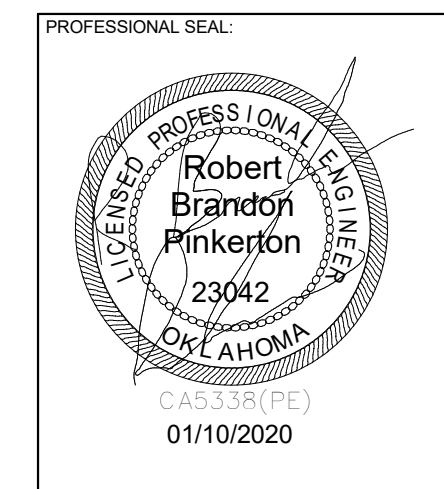
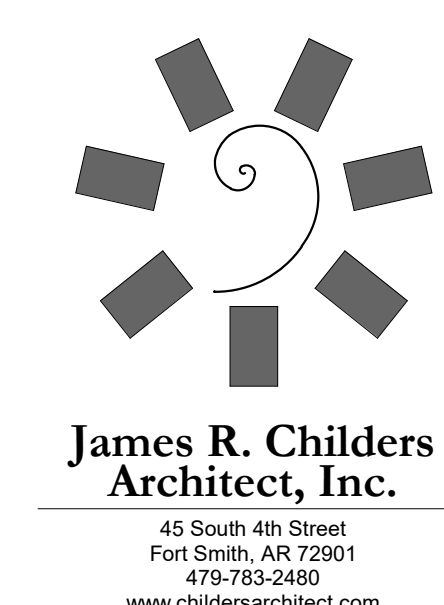
1 POWER PLAN LEVEL 02 SECTOR 01
 1/8" = 1'-0"



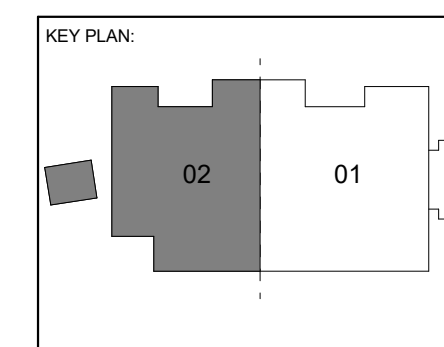
KEYNOTES	
Key Value	Keynote Text
26.46	LOCATE ELEVATOR SERVICE SFGI INSIDE OF ELEVATOR CONTROL CABINET COORDINATE LOCATION WITH ELEVATOR INSTALLER PRIOR TO ROUGH IN.



1 POWER PLAN LEVEL 02 SECTOR 02
 1/8" = 1'-0"



WILMA P. MANKILLER HEALTH CENTER
EXPANSION
 STILLWELL, OKLAHOMA

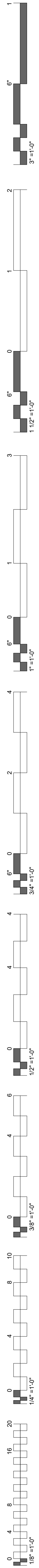


PROJECT PHASE:
BID PACKAGE 02

#	DATE	REVISIONS DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 01

DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
E1.05
POWER PLAN
LEVEL 02
SECTOR 02



KEYNOTES

26.24 MAKE CONNECTIONS TO AUTOMATIC FLUSH TOILETS/URINAL AND AUTOMATIC SINKS PER MANUFACTURER SPECIFICATIONS.

26.55 COORDINATE SUMP PUMP ALARM LOCATION WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.

POWER PLAN NOTES

COORDINATE MOUNTING HEIGHTS FOR POWER ASSOCIATED WITH TV OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.

E.C. SHALL COORDINATE ALL EQUIPMENT WITH THE ILO DESIGN DRAWINGS TO ENSURE PLACEMENT OF EQUIPMENT WORKS AS DESIGNED.

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**James R. Childers
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479-783-2450
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PROFESSIONAL SEAL

Robert
Pinkerton
23042
Oklahoma
01/10/2020

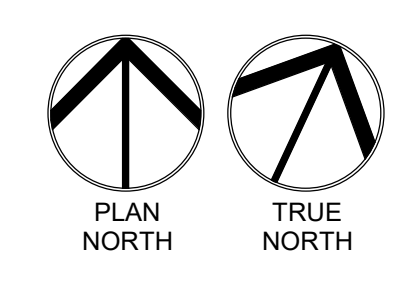
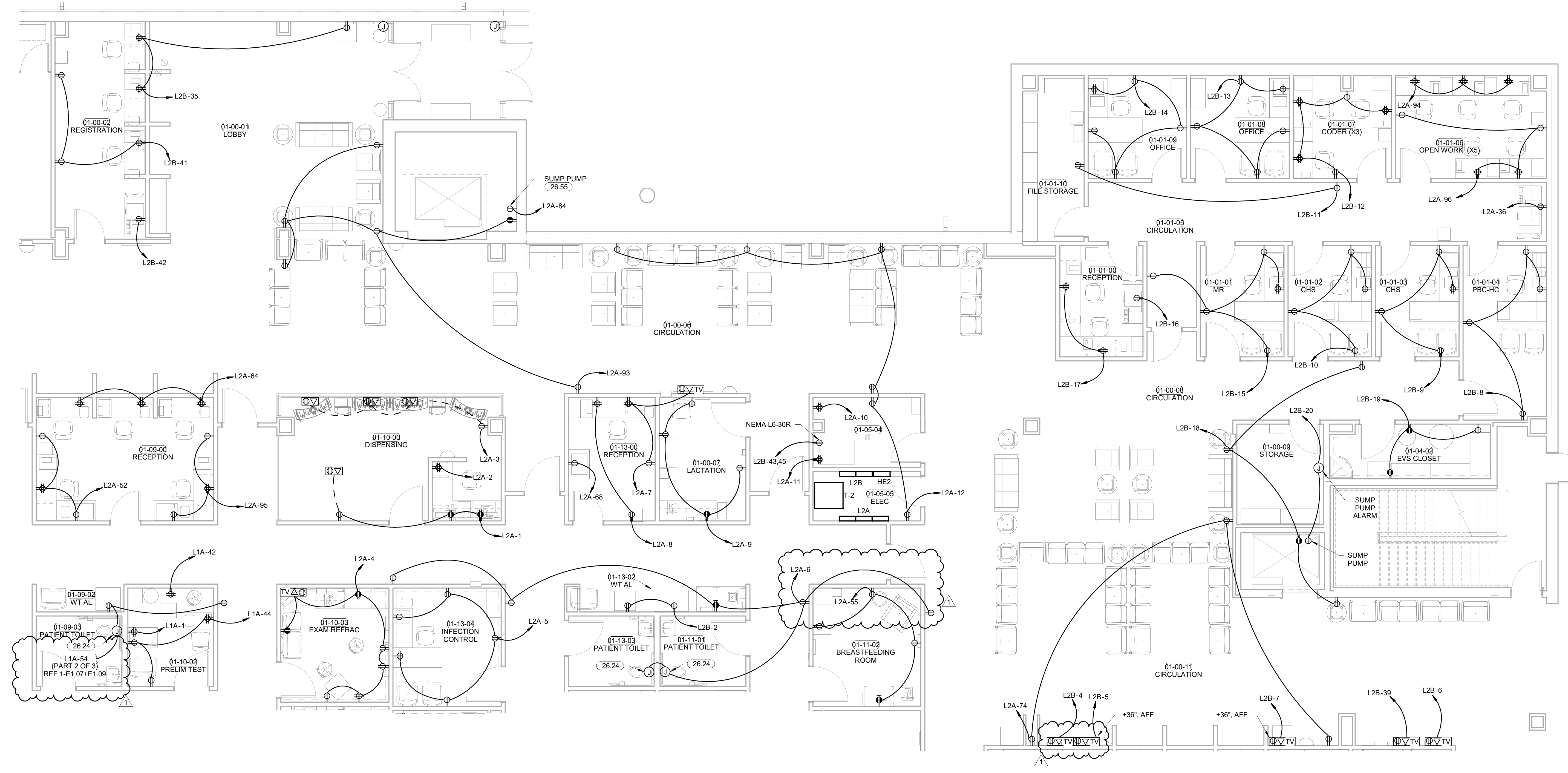
CONSULTANT LOGO

HP ENGINEERING
PROJECT NO. 18068R
100% COMPLETE

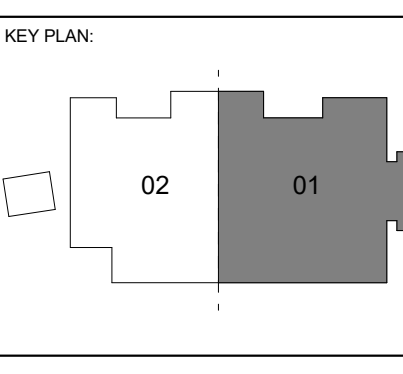
HP ENGINEERING INC.
521 W. RELEASE PARKWAY
SUITE 100
ROCKERS, AR 72768
(479) 899-8370
www.hpengineering.com

CLIENT

**WILMA P. MANKILLER HEALTH CENTER
EXPANSION**
STILWELL, OKLAHOMA



1 POWER PLAN LEVEL 01 SECTOR 01 NORTH
3/16" = 1'-0"



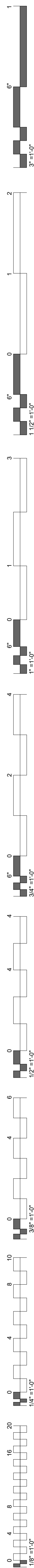
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#	DATE	REVISIONS	DESCRIPTION
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DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:

E1.06
**POWER PLAN
LEVEL 01
SECTOR 01 N**



KEYNOTES

26.06 COORDINATE POWER REQUIREMENT WITH SP 200 FROM SCRIPTPRO.

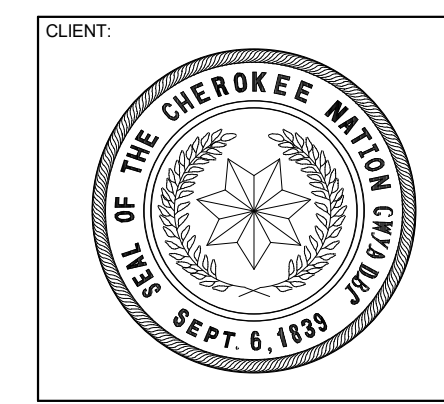
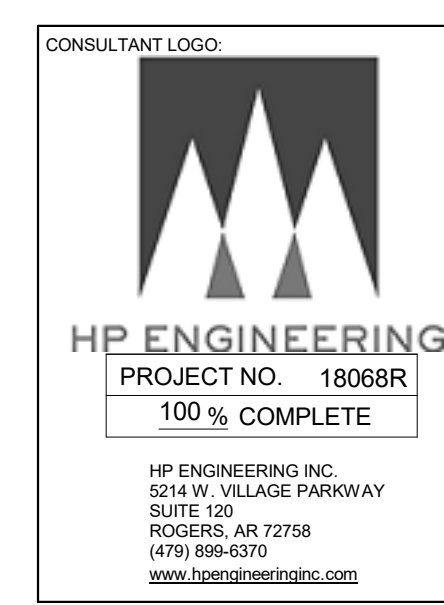
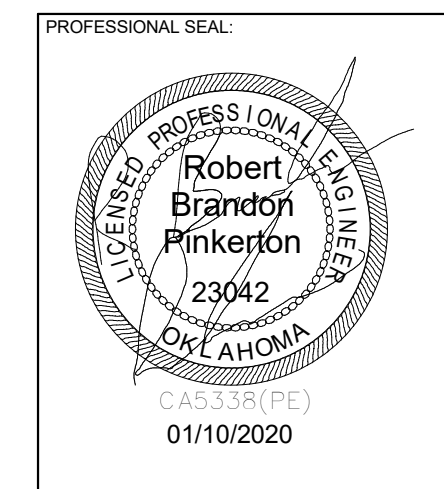
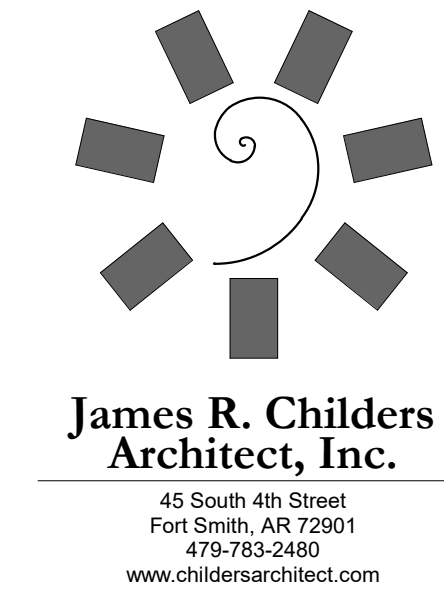
26.24 MAKE CONNECTIONS TO AUTOMATIC FLUSH TOILETS/URINAL AND AUTOMATIC SINKS PER MANUFACTURER SPECIFICATIONS.

POWER PLAN NOTES

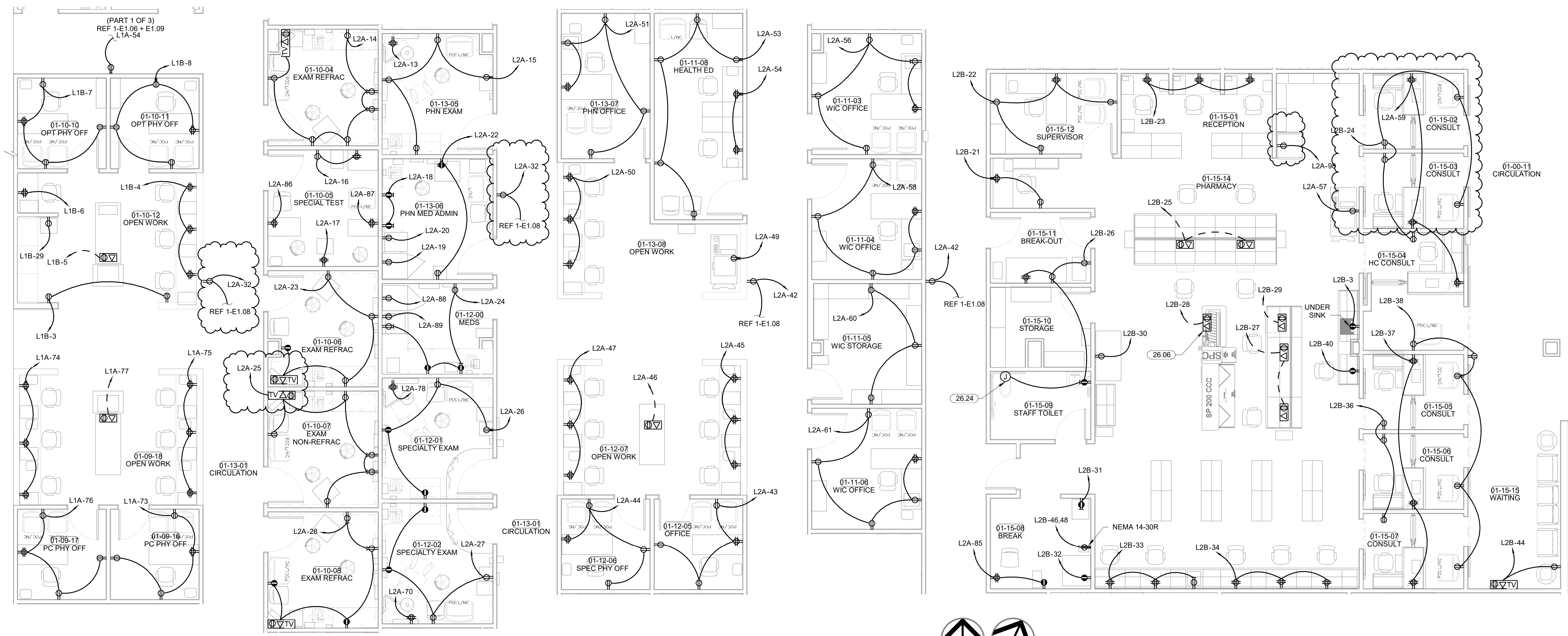
COORDINATE MOUNTING HEIGHTS FOR POWER ASSOCIATED WITH TV OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.

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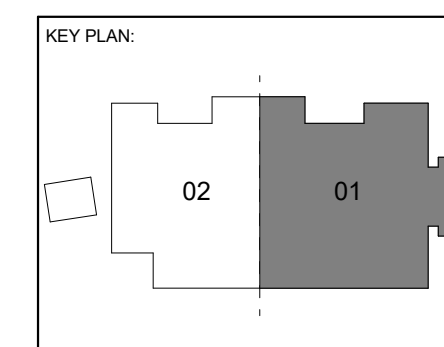


**WILMA P. MANKILLER HEALTH CENTER
 EXPANSION**
 STILWELL, OKLAHOMA



1 POWER PLAN LEVEL 01 SECTOR 01 - CENTER
 3/16" = 1'-0"

PLAN NORTH
 TRUE NORTH

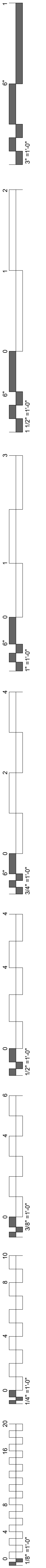


PROJECT PHASE
 BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
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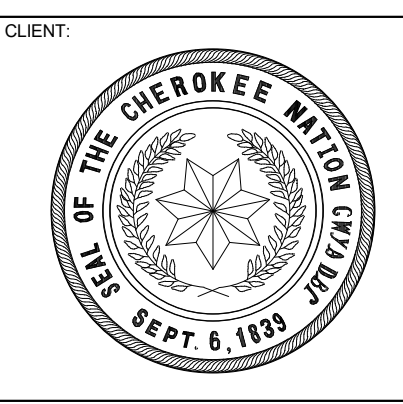
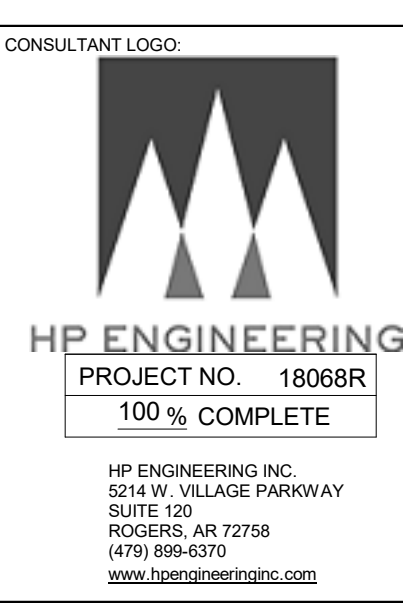
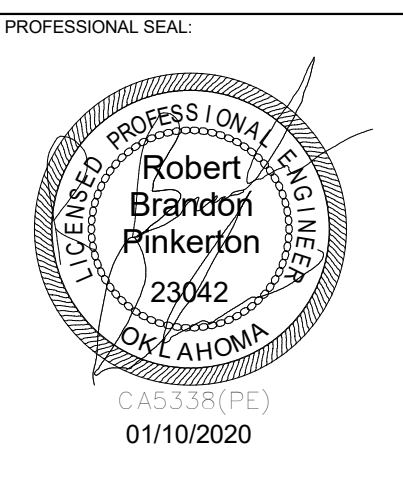
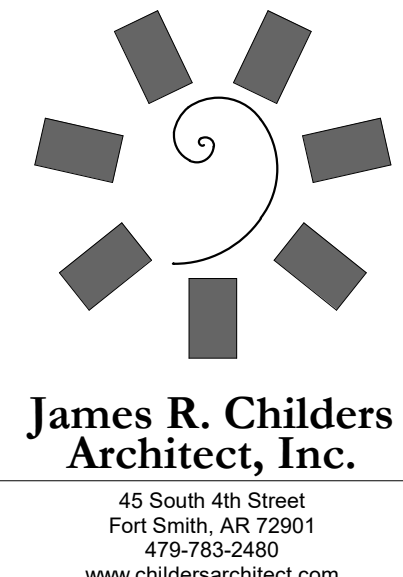
DATE: 12-06-19
 JOB NUMBER: 18-01.01

SHEET NUMBER:
E1.07
 POWER PLAN
 LEVEL 01
 SECTOR 01 CTR

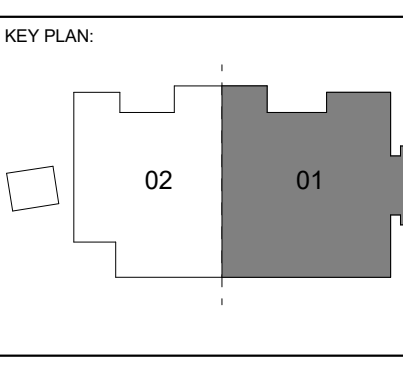
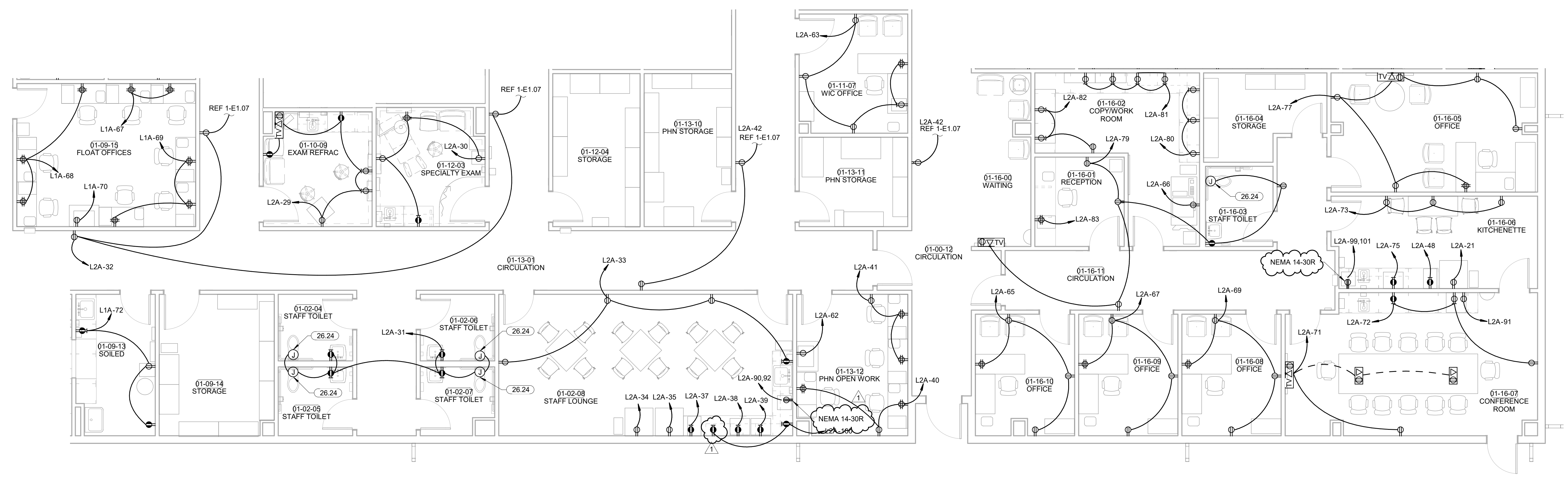


KEYNOTES
 26.24 MAKE CONNECTIONS TO AUTOMATIC FLUSH TOILETS/URINAL AND AUTOMATIC SINKS PER MANUFACTURER SPECIFICATIONS.

POWER PLAN NOTES
 COORDINATE MOUNTING HEIGHTS FOR POWER ASSOCIATED WITH TV OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.
 E. G. SHALL COORDINATE ALL EQUIPMENT WITH THE ILO DESIGN DRAWINGS TO ENSURE PLACEMENT OF EQUIPMENT WORKS AS DESIGNED.
 GROUNDING OF RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN PATIENT CARE SPACES SHALL COMPLY WITH NEC §17.13.



**WILMA P. MANKILLER HEALTH CENTER
 EXPANSION**
 STILLWELL, OKLAHOMA



PROJECT PHASE
 BID PACKAGE 02

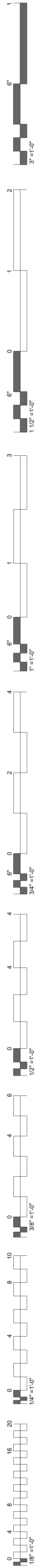
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1	1/19/20	BID PACKAGE 02 - ADD 01	

DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
E1.08

**POWER PLAN
 LEVEL 01
 SECTOR 01 S**

PLAN NORTH TRUE NORTH
1 POWER PLAN LEVEL 01 SECTOR 01 - SOUTH
 3/16" = 1'-0"



KEYNOTES

26.02 POWER FOR PROJECTOR OR PROJECTOR SCREEN. COORDINATE LOCATION WITH ARCHITECTURE PRIOR TO INSTALLING.

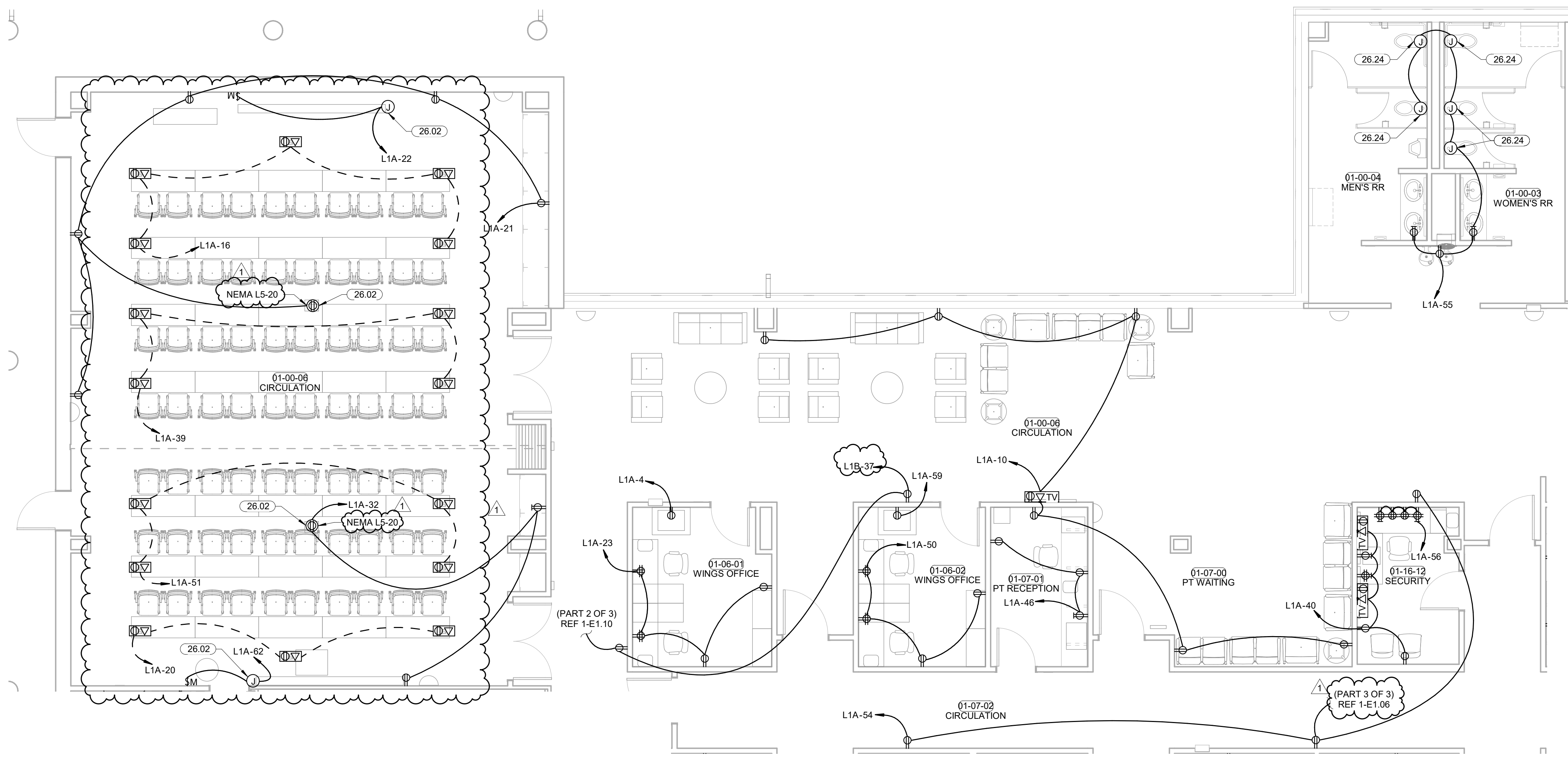
26.24 MAKE CONNECTIONS TO AUTOMATIC FLUSH TOILETS/URINAL AND AUTOMATIC SINKS PER MANUFACTURER SPECIFICATIONS.

POWER PLAN NOTES

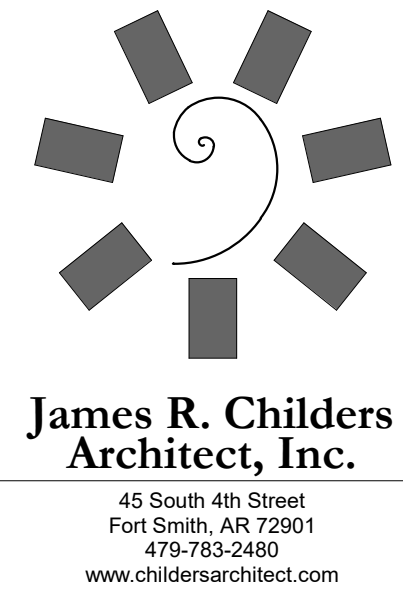
COORDINATE MOUNTING HEIGHTS FOR POWER ASSOCIATED WITH TV OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.

E.C. SHALL COORDINATE ALL EQUIPMENT WITH THE I/O DESIGN DRAWINGS TO ENSURE PLACEMENT OF EQUIPMENT WORKS AS DESIGNED.

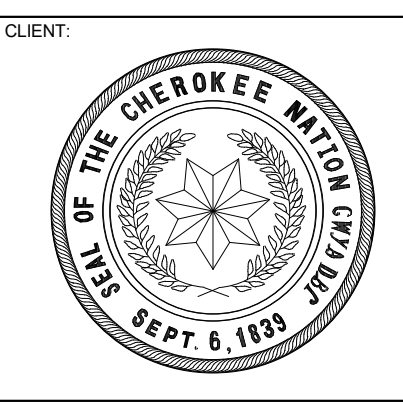
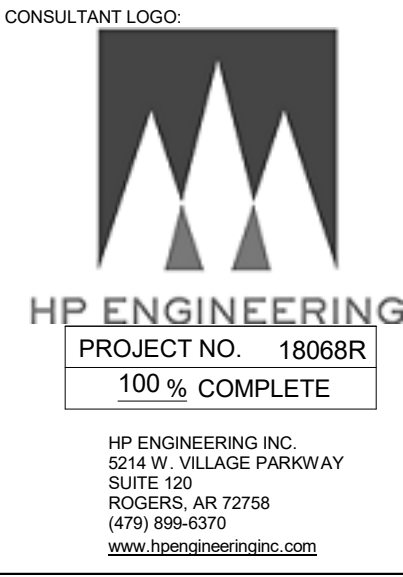
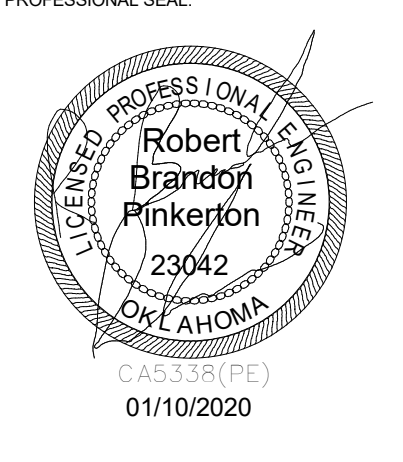
GROUNDING OF RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN PATIENT CARE SPACES SHALL COMPLY WITH NEC 517.13.



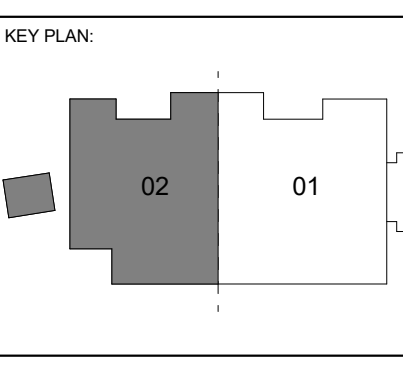
1 POWER PLAN LEVEL 01 SECTOR 02 - NORTH
 3/16" = 1'-0"
 PLAN NORTH
 TRUE NORTH



**James R. Childers
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**WILMA P. MANKILLER HEALTH CENTER
EXPANSION**
 STILLWELL, OKLAHOMA

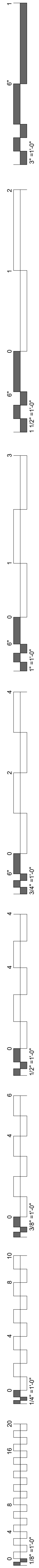


PROJECT PHASE:
BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
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DATE: 12-06-19
 JOB NUMBER: 18-01.01

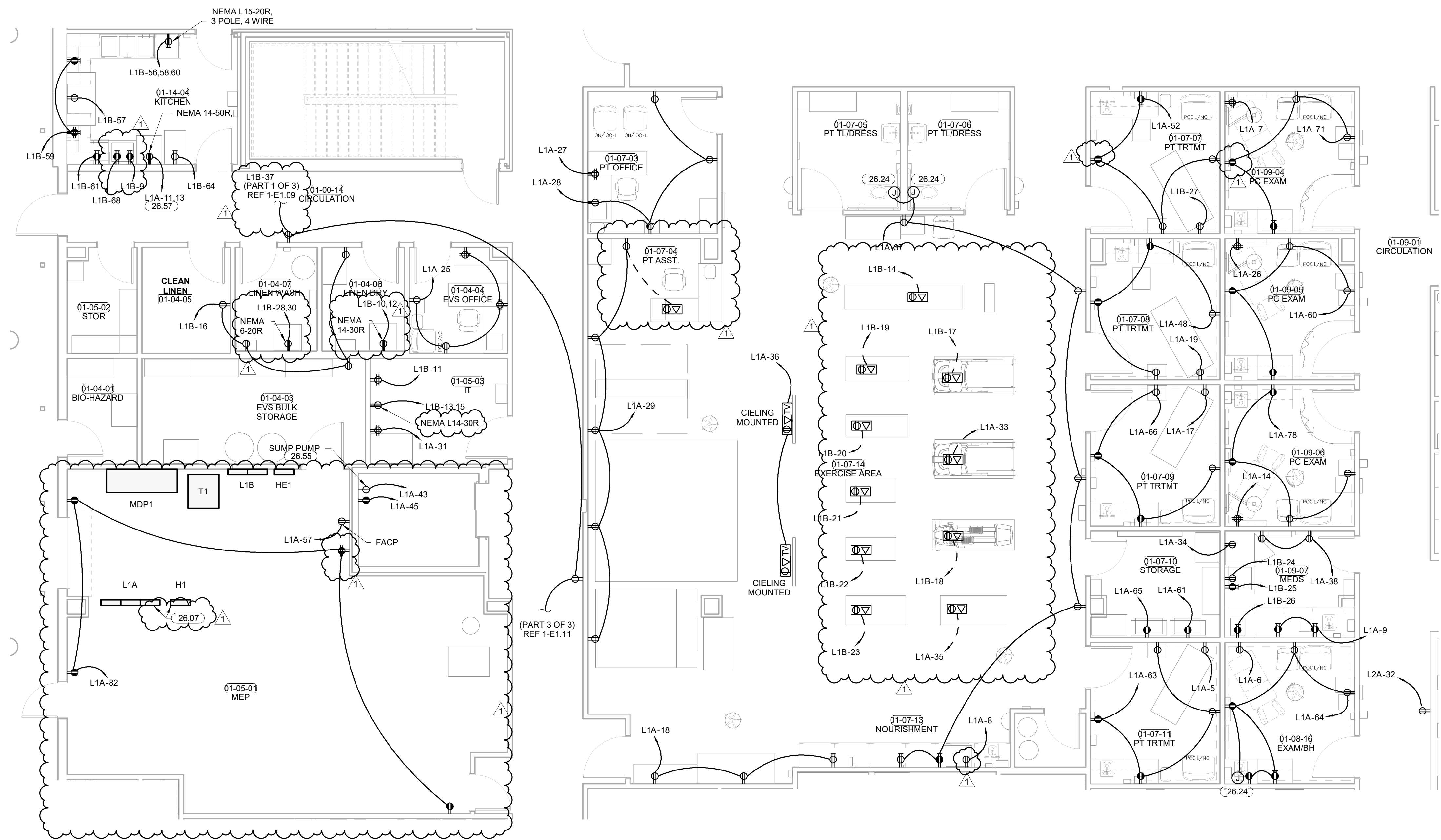
SHEET NUMBER:
E1.09
**POWER PLAN
LEVEL 01
SECTOR 02 N**



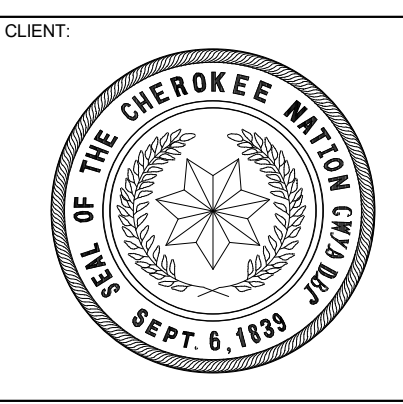
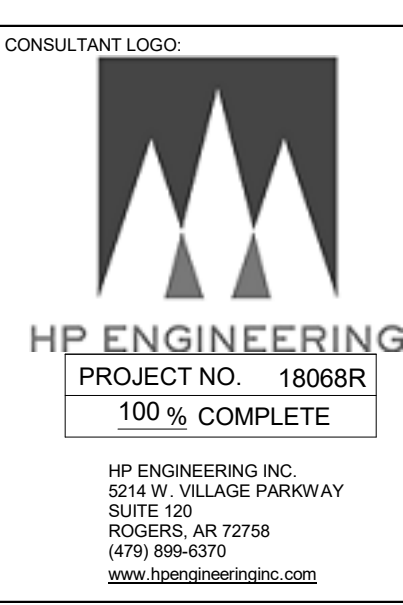
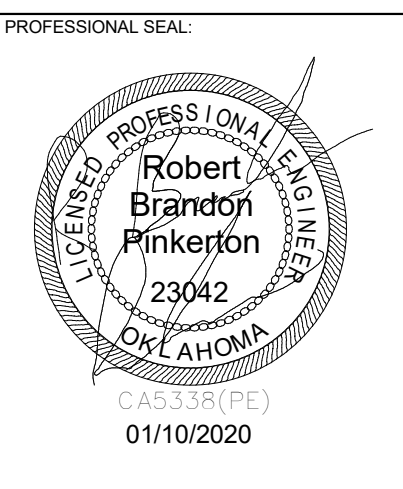
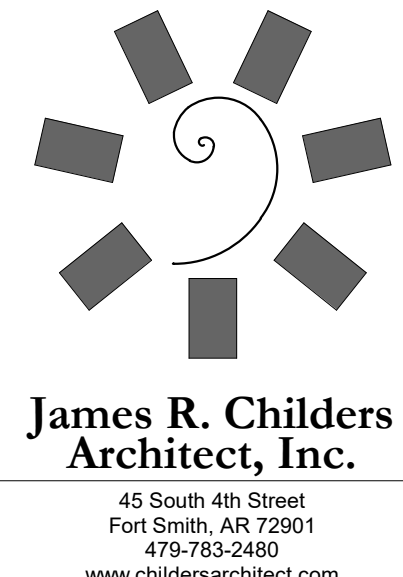
KEYNOTES	
26.07	MOUNT PANELS AND DISCONNECTS ON UNISTRUT, E.G. TO FABRICATE IN FIELD. COORDINATE EXACT LOCATION AND CLEARANCES WITH PLUMBING AND MECHANICAL CONTRACTORS PRIOR TO ROUGH-IN.
26.24	MAKE CONNECTIONS TO AUTOMATIC FLUSH TOILETS/URINAL AND AUTOMATIC SINKS PER MANUFACTURER SPECIFICATIONS.
26.55	COORDINATE SUMP PUMP ALARM LOCATION WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
26.57	REFER TO SHEET E.05 DETAIL 4 FOR SHUT TRIP CONTROL DIAGRAM.

POWER PLAN NOTES	
COORDINATE MOUNTING HEIGHTS FOR POWER ASSOCIATED WITH TV OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.	
E.G. SHALL COORDINATE ALL EQUIPMENT WITH THE ILO DESIGN DRAWINGS TO ENSURE PLACEMENT OF EQUIPMENT WORKS AS DESIGNED.	
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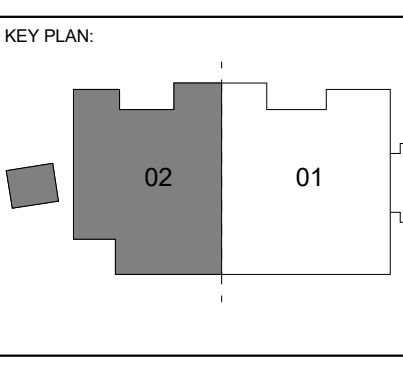
KITCHEN POWER NOTES	
INTERLOCK DEVICES LOCATED UNDER KITCHEN HOOD WITH FIRE SUPPRESSION SYSTEM. DEVICES AND GAS CONNECTIONS SHALL BE AUTOMATICALLY SHUTOFF IN THE EVENT OF FIRE SUPPRESSION SYSTEM ACTIVATION. PROVIDE SHUNT-TRIP CAPABILITY FOR DEVICES LOCATED UNDER HOOD, EVEN IF NOT SPECIFICALLY INDICATED IN THE DRAWINGS.	
INTERLOCK HOOD EXHAUST FAN, SUPPLY FAN AND LIGHTS WITH FIRE SUPPRESSION SYSTEM. DEVICES SHALL BE AUTOMATICALLY SHUTOFF IF FIRE SUPPRESSION SYSTEM IS ACTIVATED.	



1 POWER PLAN LEVEL 01 SECTOR 02 - CENTER
 3/16" = 1'-0"



WILMA P. MANKILLER HEALTH CENTER
EXPANSION
 STILWELL, OKLAHOMA

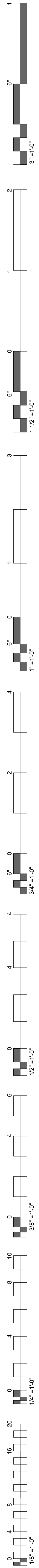


PROJECT PHASE
 BID PACKAGE 02

#	DATE	REVISION DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 01

DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
E1.10
POWER PLAN
LEVEL 01
SECTOR 02 CTR

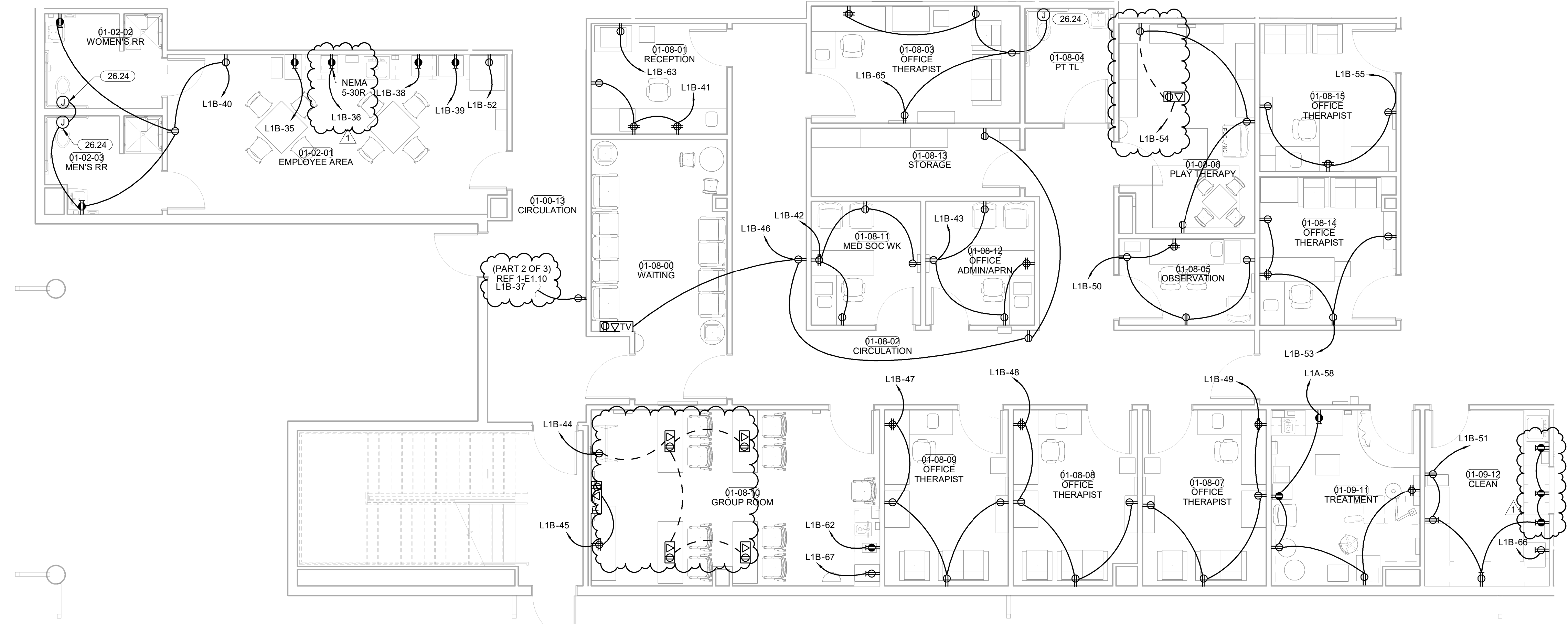


KEYNOTES

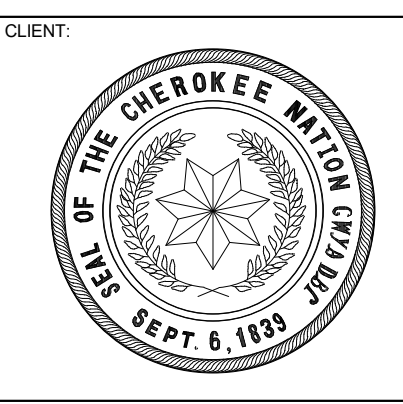
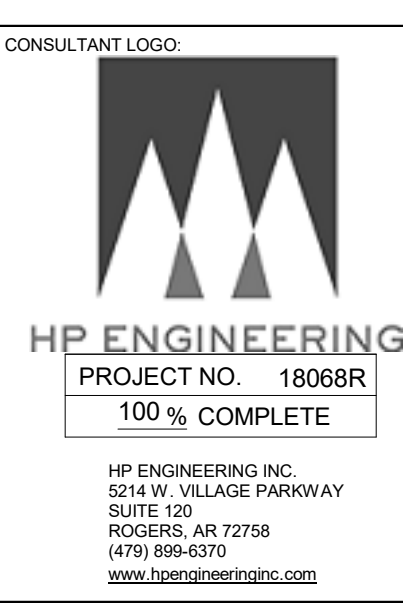
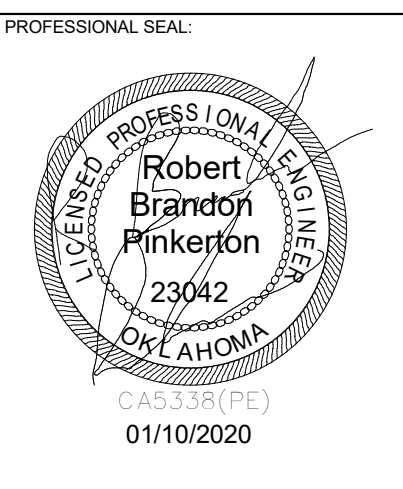
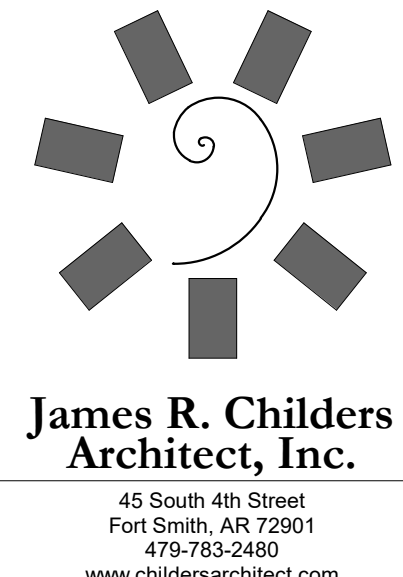
26.24 MAKE CONNECTIONS TO AUTOMATIC FLUSH TOILETS/URINAL AND AUTOMATIC SINKS PER MANUFACTURER SPECIFICATIONS.

POWER PLAN NOTES

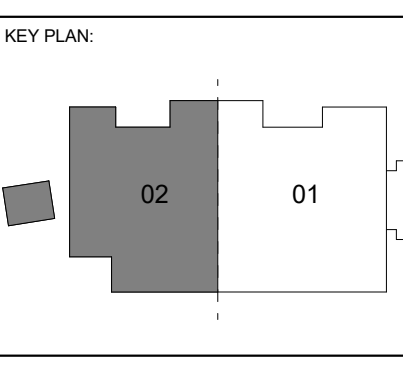
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1 POWER PLAN LEVEL 01 SECTOR 02 - SOUTH
 3/16" = 1'-0"



**WILMA P. MANKILLER HEALTH CENTER
EXPANSION
STILWELL, OKLAHOMA**

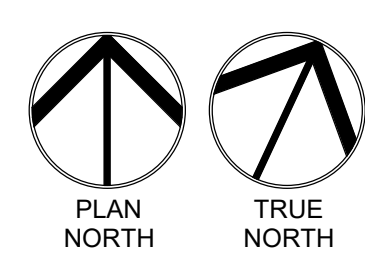
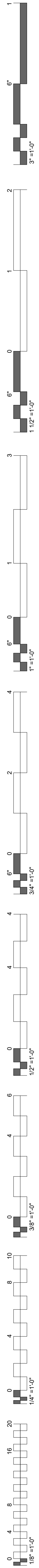


PROJECT PHASE
 BID PACKAGE 02

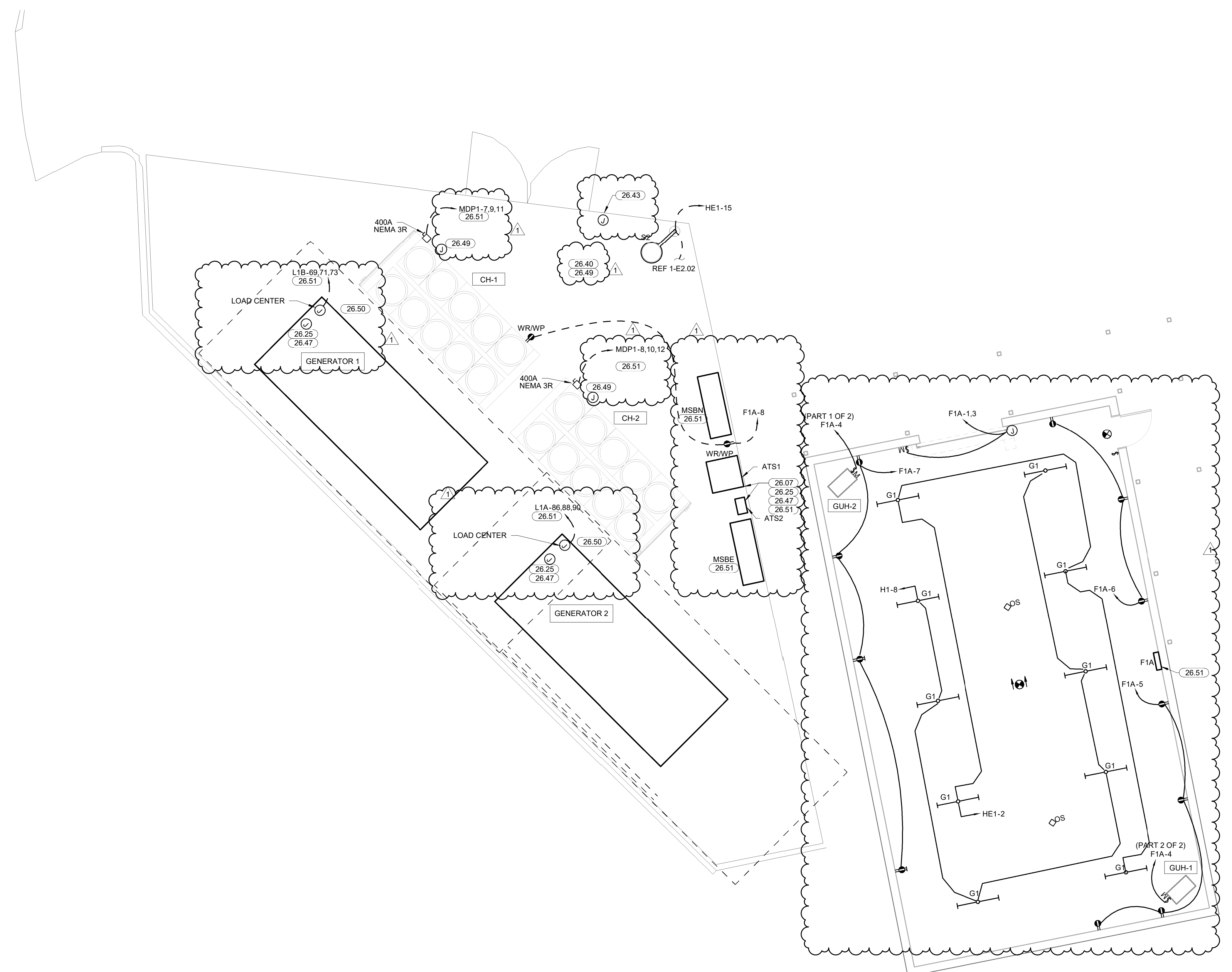
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DATE: 12-06-19 JOB NUMBER: 18-01.01

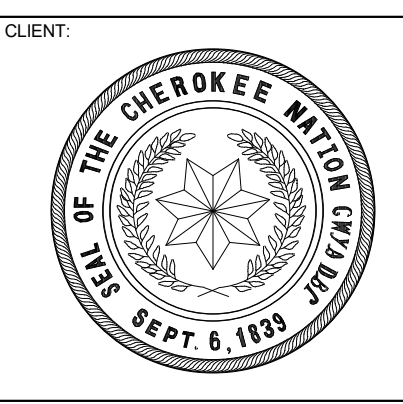
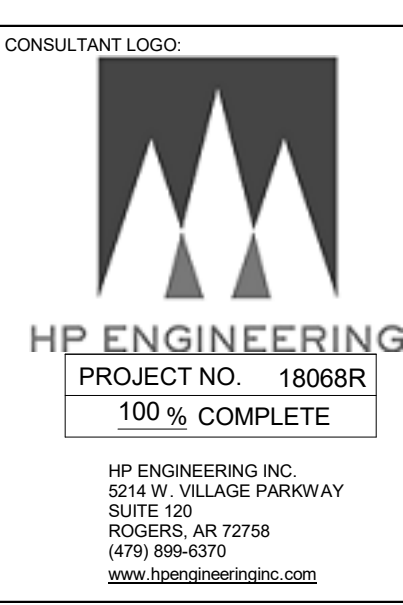
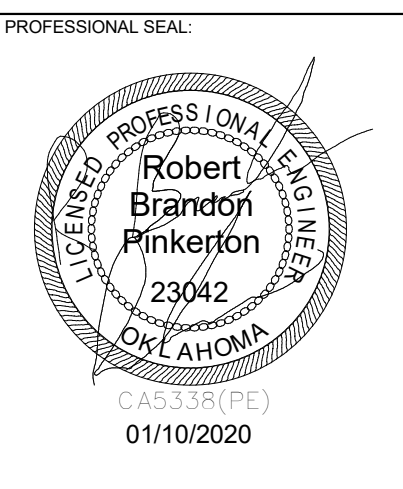
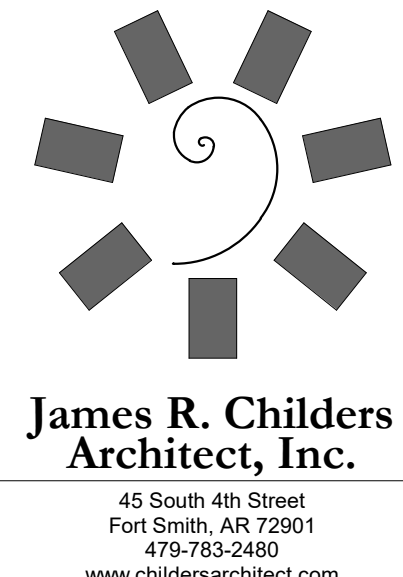
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**POWER PLAN
LEVEL 01
SECTOR 02 S**



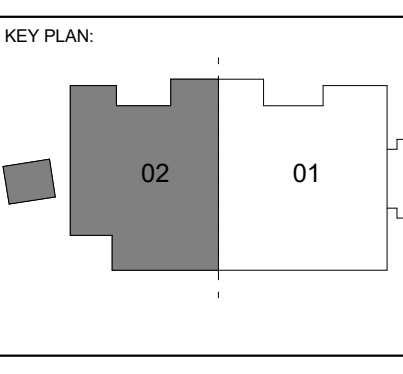
1 MAINTENANCE/ MECHANICAL YARD POWER
3/16" = 1'-0"



- KEYNOTES**
- 26.07 MOUNT PANELS AND DISCONNECTS ON UNISTRUT, E.C. TO FABRICATE IN FIELD. COORDINATE EXACT LOCATION AND CLEARANCES WITH PLUMBING AND MECHANICAL CONTRACTORS PRIOR TO ROUGH-IN.
 - 26.25 PROVIDE 1" UNDERGROUND CONDUIT TO ACCESSIBLE CEILING SPACE IN MAIN BUILDING FOR GENERATOR CONTROLS.
 - 26.40 PROVIDE 2" CONDUITS AND ASSOCIATED CONTROL CONDUITS FOR FUTURE CHILLER. COORDINATE STUB USE LOCATION WITH HYDROLOGIC PIPE LOCATIONS.
 - 26.43 GENERATOR ESTOP LOCATION, CONDUITS AND CONDUCTORS SHALL BE ROUTED FROM GENERATORS TO THIS LOCATION. CONFIRM ALL REQUIREMENTS WITH GENERATOR MANUFACTURER PRIOR TO ROUGH IN.
 - 26.47 PROVIDE CONDUIT AND CONTROL WIRES BETWEEN GENERATOR, ATS, AND ANNUNCIATOR LOCATIONS. ALL CONTROLS AND REQUIREMENTS SHALL BE COORDINATED WITH GENERATOR MANUFACTURER PRIOR TO INSTALLATION.
 - 26.49 PROVIDE ALL CONDUITS REQUIRED FOR CONTROL, WIRING, COORDINATE SIZE AND QUANTITY WITH MECHANICAL CONTROLS CONTRACTOR PRIOR TO ROUGH IN. COORDINATE STUB UP LOCATIONS WITH MECHANICAL CONTROLS CONTRACTOR PRIOR TO ROUGH IN. PROVIDE A PULL STRING IN ALL CONDUITS AND CAP ALL CONDUITS FOR FUTURE USE.
 - 26.50 PROVIDE PERMEANT STEEL ACCESS STAIRS FOR GENERATORS. CONFIRM LOCATION AND REQUIREMENTS WITH GENERATOR PROVIDER AND ARCHITECT PRIOR TO BID AND PURCHASE.
 - 26.51 COORDINATE ALL UNDERGROUND CONDUITS AND FEEDERS WITH FOOTINGS PRIOR TO ROUGH IN.



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PROJECT PHASE
BID PACKAGE 02

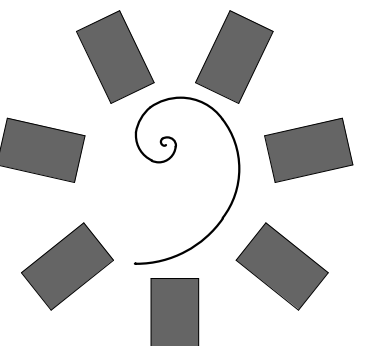
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DATE: 12-06-19 JOB NUMBER: 18-01.01

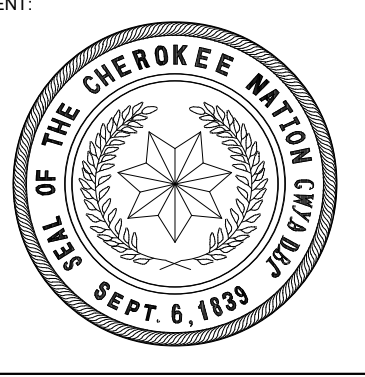
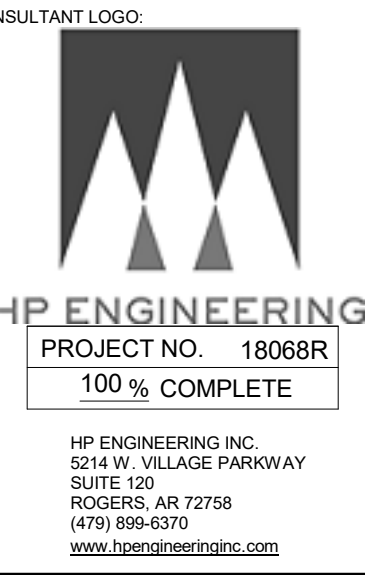
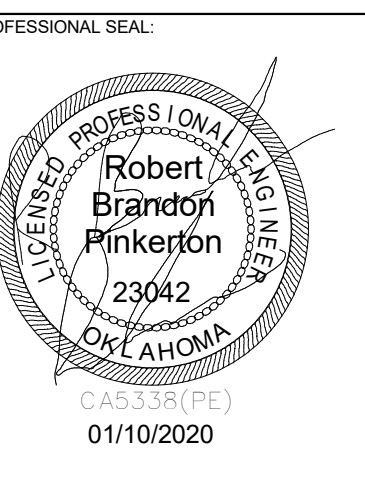
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E1.13
MAINTENANCE/
MECH YARD
POWER/LIGHTING

MECHANICAL POWER PLAN NOTES

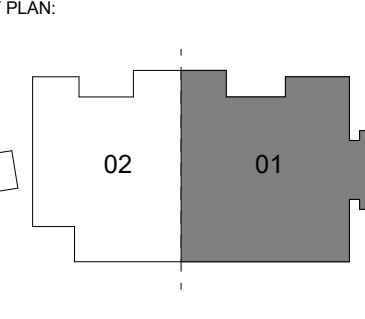
E.C. SHALL MAKE CONNECTIONS BETWEEN THE OUTDOOR AND INDOOR UNITS OF THE MINI-SPLIT SYSTEM.
 EXHAUST FANS SHALL BE CIRCUITED WITH LIGHTS UNLESS SHOWN OTHERWISE. REFER TO MECHANICAL PLANS FOR CONTROLS OF EXHAUST FANS.
 VAV DISCONNECTS ARE FACTORY INSTALLED.



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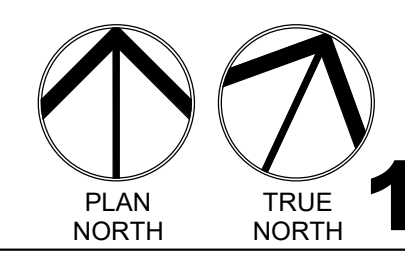


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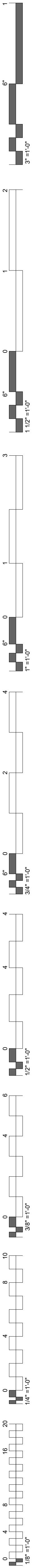
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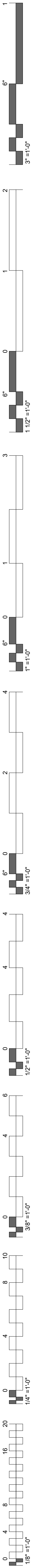
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SHEET NUMBER:
E1.14
MECH POWER PLAN LEVEL 01 SECTOR 01



1 MECHANICAL POWER PLAN LEVEL 01 SECTOR 01
 1/8" = 1'-0"





MECHANICAL POWER PLAN NOTES

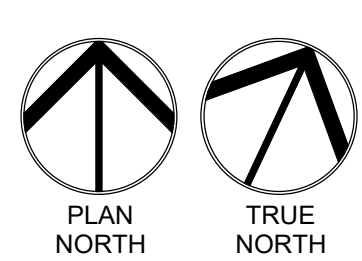
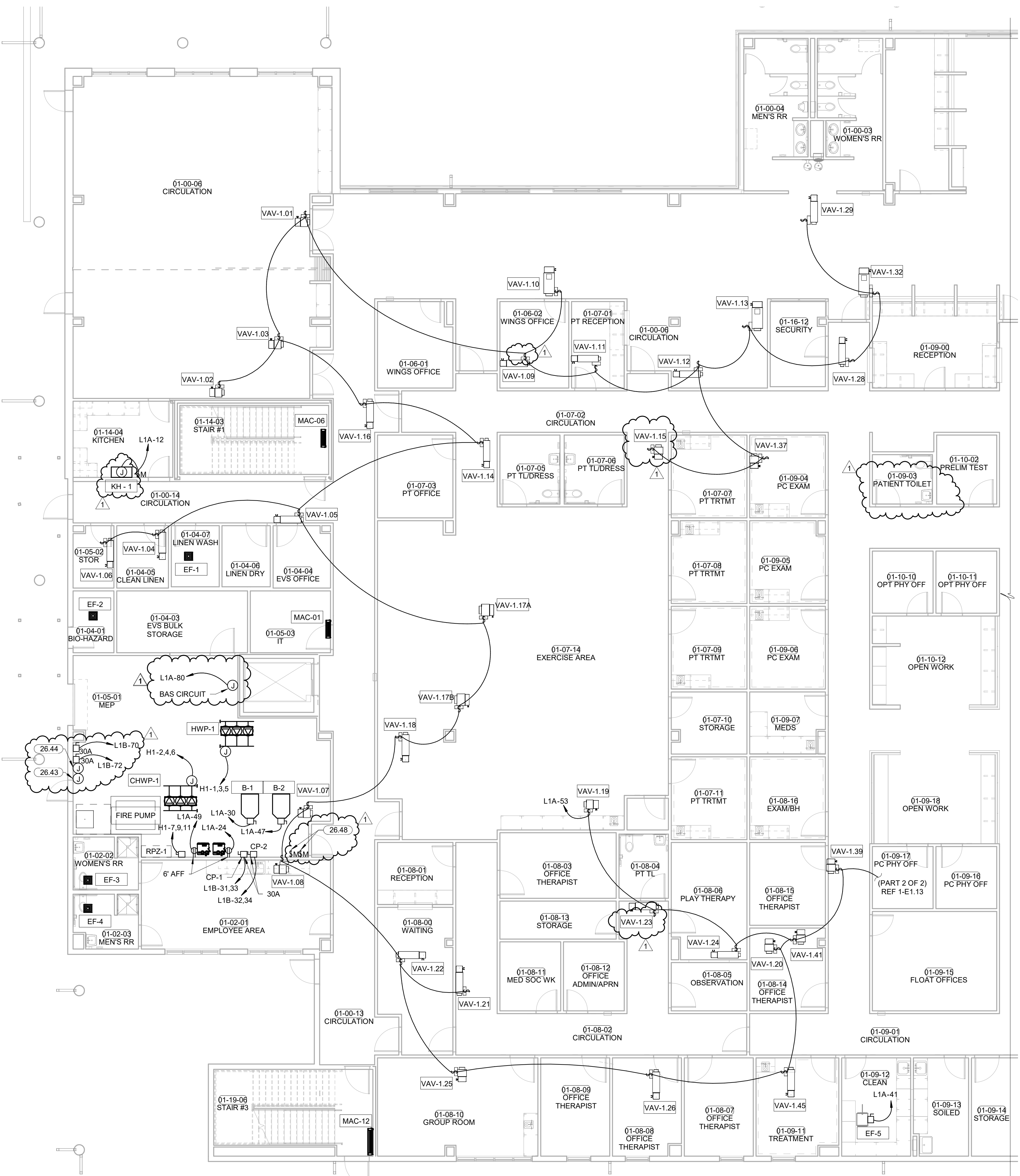
E.C. SHALL MAKE CONNECTIONS BETWEEN THE OUTDOOR AND INDOOR UNITS OF THE MINI-SPLIT SYSTEM.
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 VAV DISCONNECTS ARE FACTORY INSTALLED.

KITCHEN POWER NOTES

INTERLOCK DEVICES LOCATED UNDER KITCHEN HOOD WITH FIRE SUPPRESSION SYSTEM. DEVICES AND GAS CONNECTIONS SHALL BE AUTOMATICALLY SHUTOFF IN THE EVENT OF FIRE SUPPRESSION SYSTEM ACTIVATION. PROVIDE SHUNT-TRIP CAPABILITY FOR DEVICES LOCATED UNDER HOOD, EVEN IF NOT SPECIFICALLY INDICATED IN THE DRAWINGS.
 INTERLOCK HOOD EXHAUST FAN, SUPPLY FAN AND LIGHTS WITH FIRE SUPPRESSION SYSTEM. DEVICES SHALL BE AUTOMATICALLY SHUTOFF IF FIRE SUPPRESSION SYSTEM IS ACTIVATED.

KEYNOTES

26.43 GENERATOR ESTOP LOCATION. CONDUITS AND CONDUCTORS SHALL BE ROUTED FROM GENERATORS TO THIS LOCATION. CONFIRM ALL REQUIREMENTS WITH GENERATOR MANUFACTURER PRIOR TO ROUGH IN.
 26.44 GENERATOR ANNUNCIATOR PANEL LOCATION ALL CONDUITS AND CONDUCTORS SHALL BE ROUTED FROM GENERATORS TO THIS LOCATION. CONFIRM ALL REQUIREMENTS WITH GENERATOR MANUFACTURER PRIOR TO ROUGH IN.
 26.48 E.C. SHALL PROVIDE INDEPENDENT EMERGENCY SHUNT SWITCHES FOR BOILER SHUNT CONTROL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.



1 MECHANICAL POWER PLAN LEVEL 01 SECTOR 02
 1/8" = 1'-0"

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PROFESSIONAL SEAL

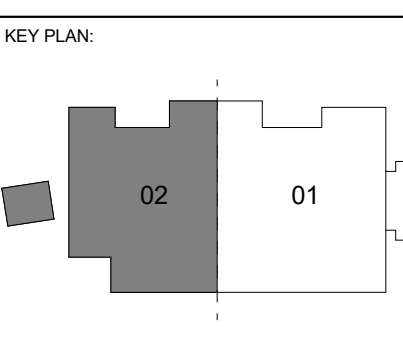
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CONSULTANT LOGO

HP ENGINEERING
 PROJECT NO. 18068R
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 HP ENGINEERING INC.
 5214 W. BELLEFAY PARKWAY
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 (479) 899-8370
 www.hpengineering.com

CLIENT

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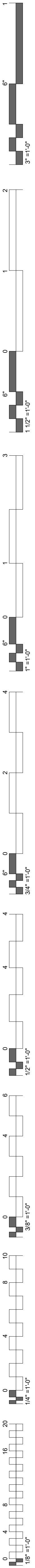


PROJECT PHASE
 BID PACKAGE 02

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DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
E1.15
 MECH POWER PLAN LEVEL 01 SECTOR 02

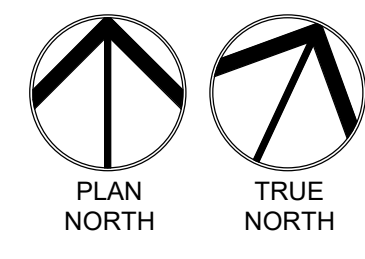
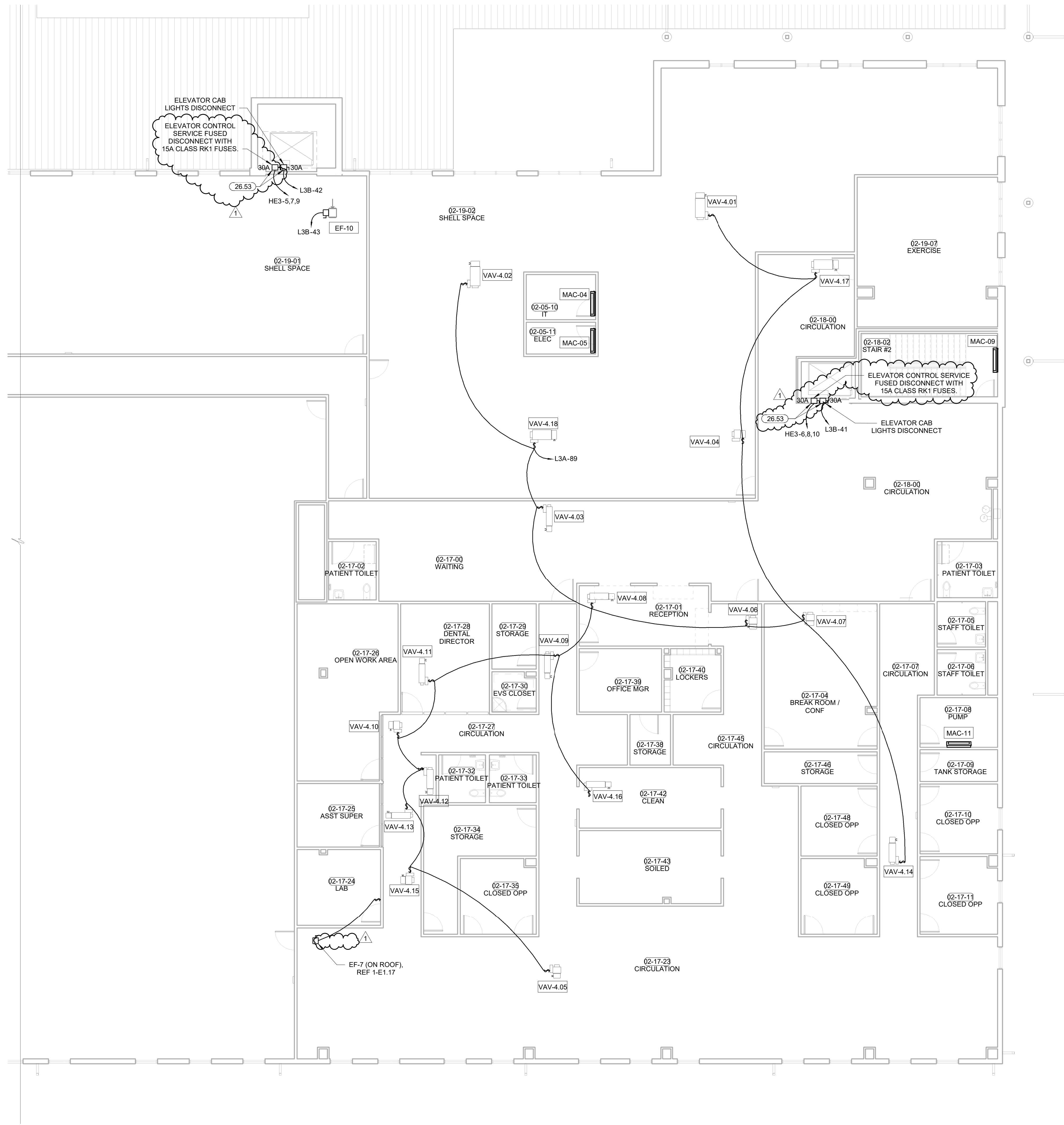


MECHANICAL POWER PLAN NOTES

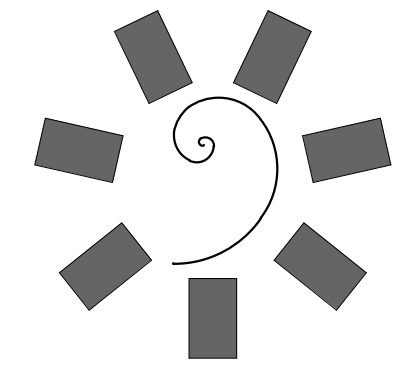
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KEYNOTES

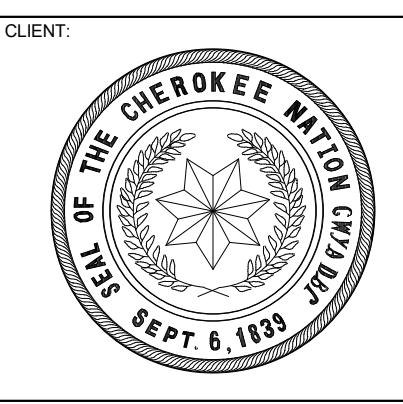
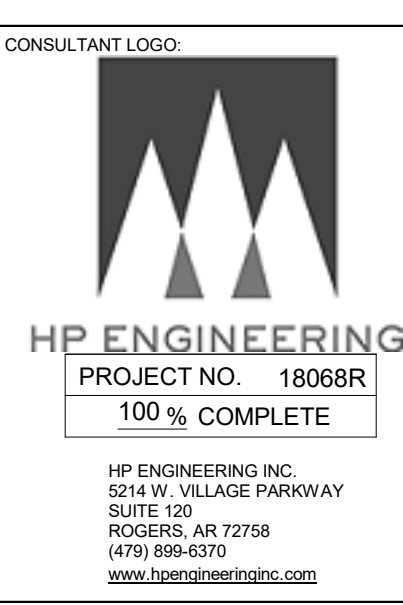
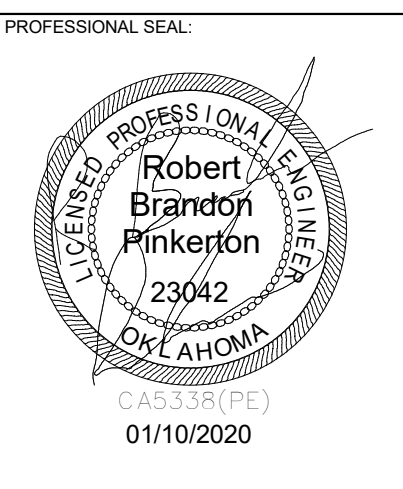
26.53 LOCATE ELEVATOR FUSED DISCONNECT INSIDE OF ELEVATOR CONTROL CABINET COORDINATE LOCATION WITH ELEVATOR INSTALLER PRIOR TO ROUGH IN.



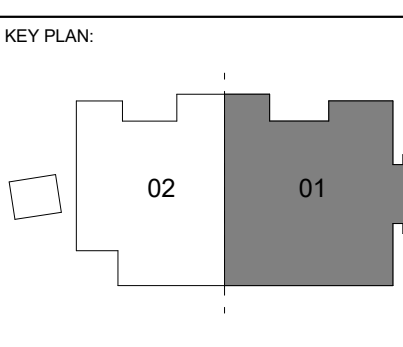
1 MECHANICAL POWER PLAN LEVEL 02 SECTOR 01
 1/8" = 1'-0"



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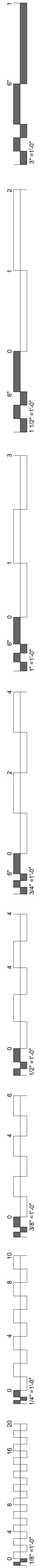


PROJECT PHASE:
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DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
E1.16
 MECH POWER PLAN LEVEL 02 SECTOR 01

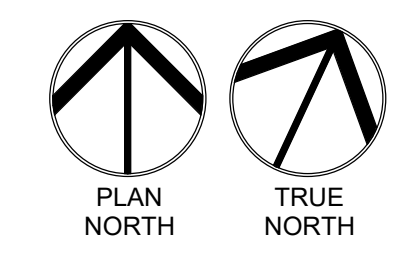
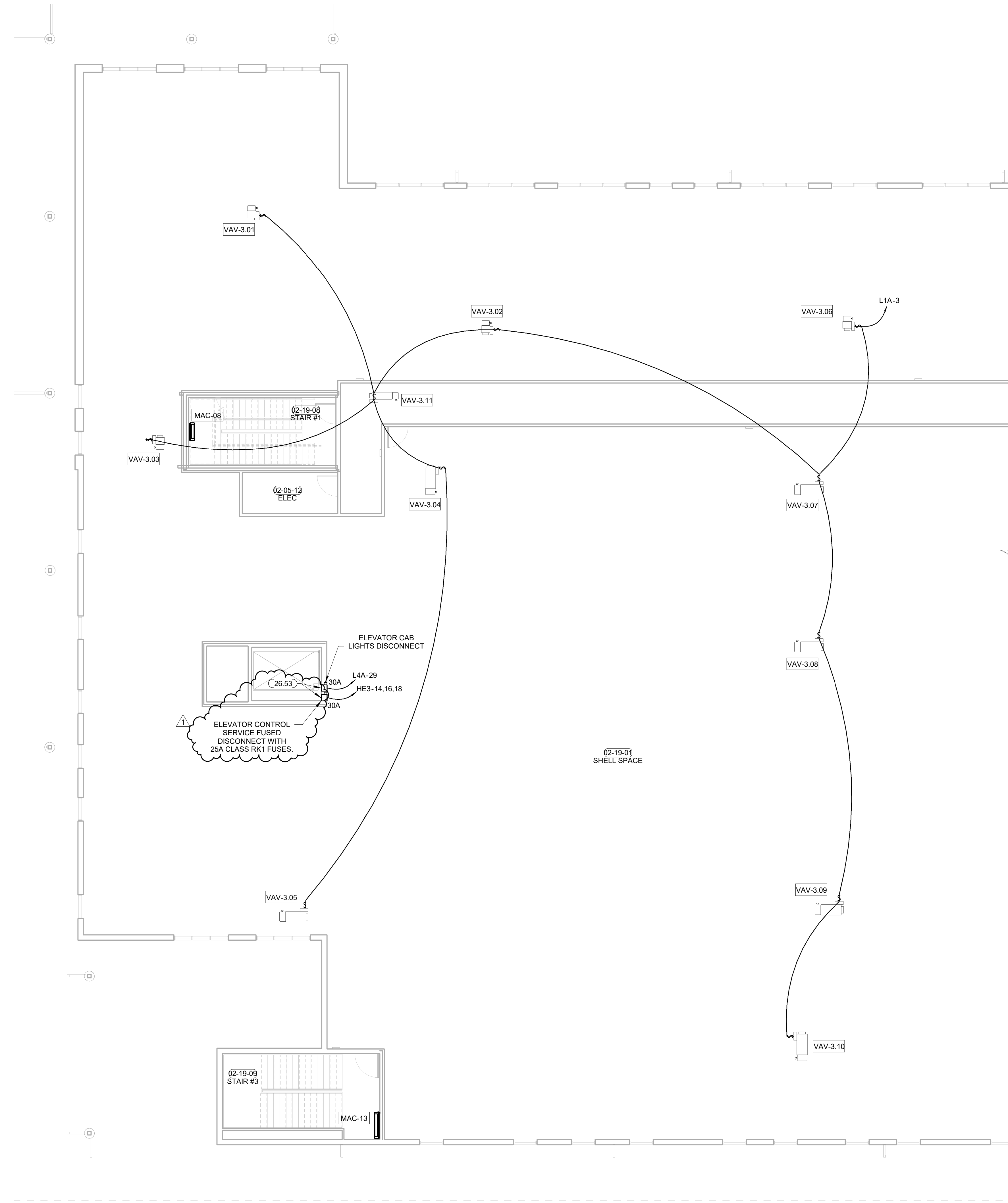


MECHANICAL POWER PLAN NOTES

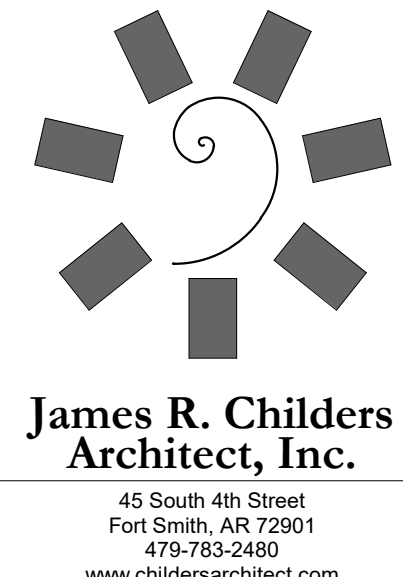
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 VAV DISCONNECTS ARE FACTORY INSTALLED.

KEYNOTES

26.53 LOCATE ELEVATOR FUSED DISCONNECT INSIDE OF ELEVATOR CONTROL CABINET COORDINATE LOCATION WITH ELEVATOR INSTALLER PRIOR TO ROUGH IN.



1 MECHANICAL POWER PLAN LEVEL 02 SECTOR 02
 1/8" = 1'-0"



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 Robert Pinkerton
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 State of Oklahoma

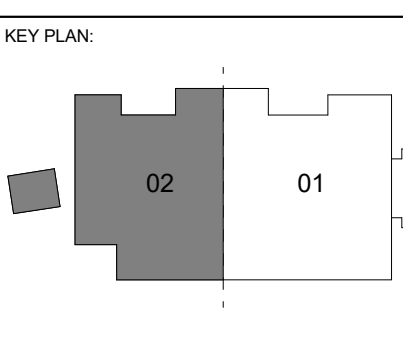
CONSULTANT LOGO:

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 PROJECT NO. 18068R
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 CHEROKEE NATION
 SEPT. 6, 1839

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 STILLWELL, OKLAHOMA

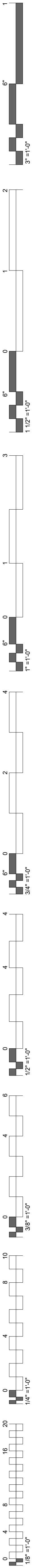


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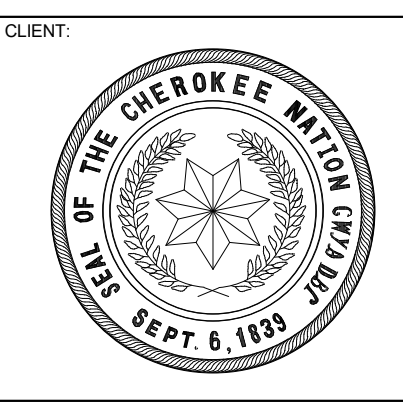
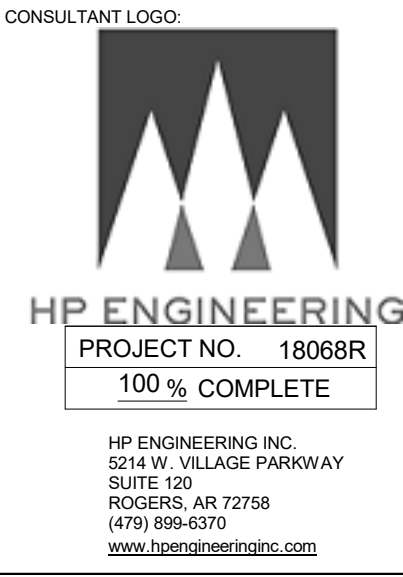
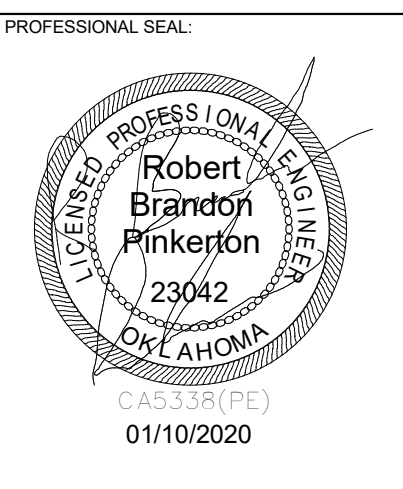
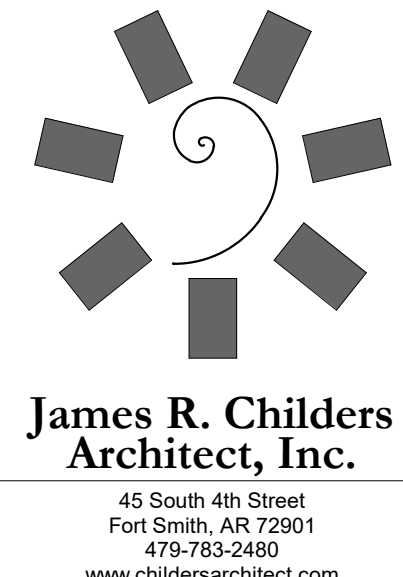
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DATE: 12-06-19
 JOB NUMBER: 18-01.01

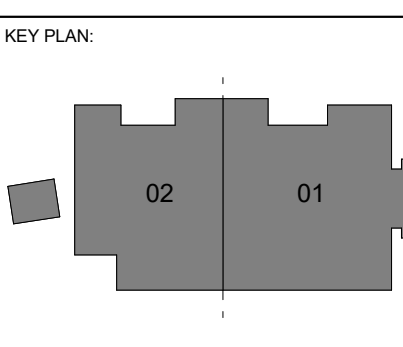
SHEET NUMBER:
E1.17
 MECH POWER PLAN LEVEL 02 SECTOR 02



KEYNOTES
 26.52 PROVIDE WEATHERPROOF BOX, METALLIC IN USE COVER, AND ALL REQUIRED MATERIALS FOR INSTALLATION OF GFI MAINTENANCE RECEPTACLE TO BE MOUNTED ON LINESTRUT WITH DISCONNECT.



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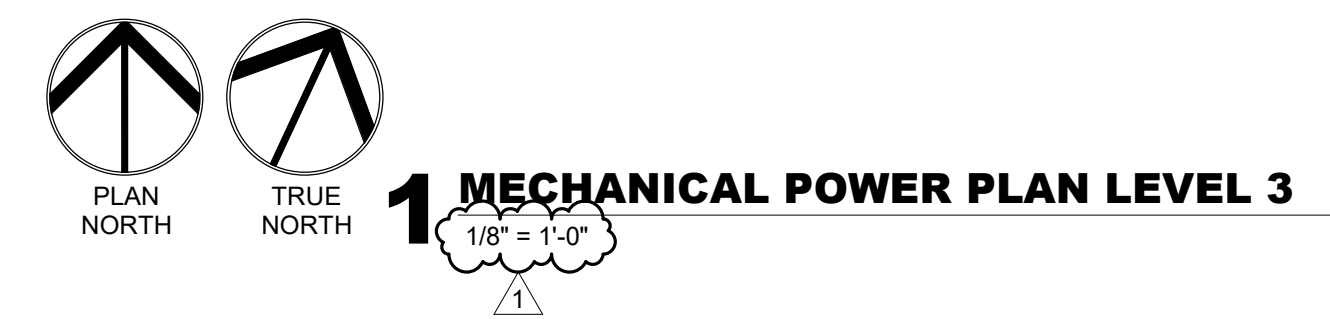
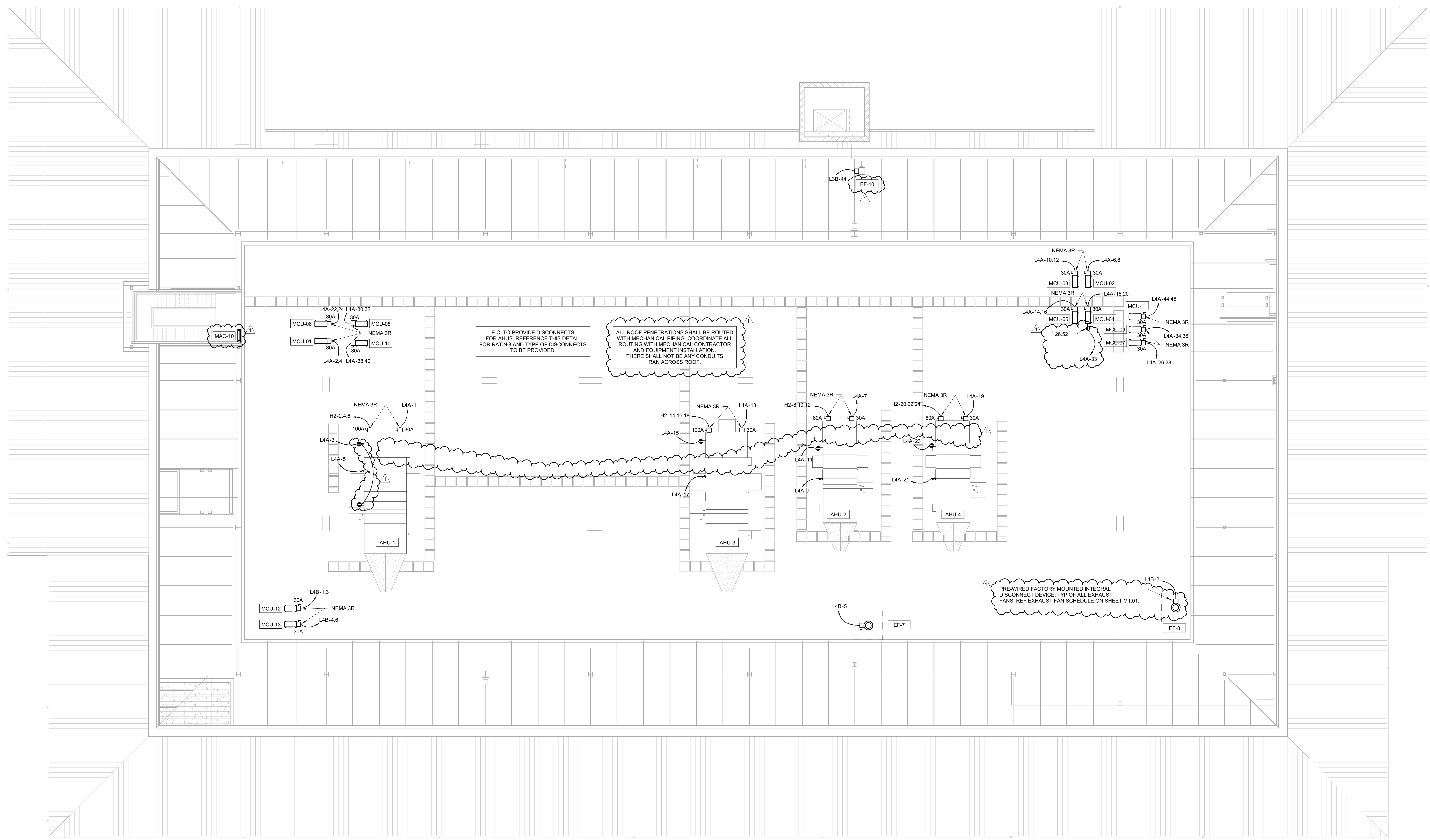


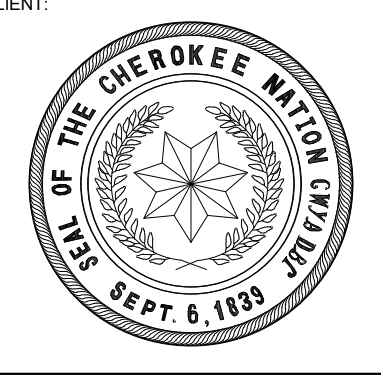
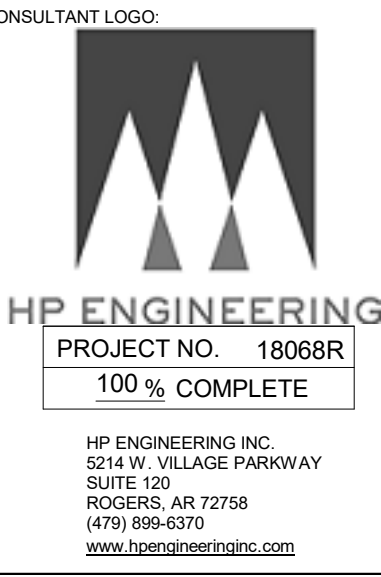
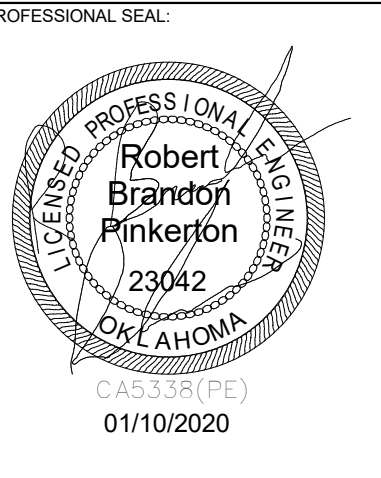
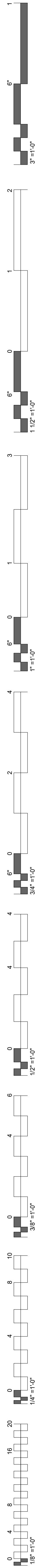
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DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
E1.18
 MECH POWER PLAN ROOF





FIRE ALARM GENERAL NOTES

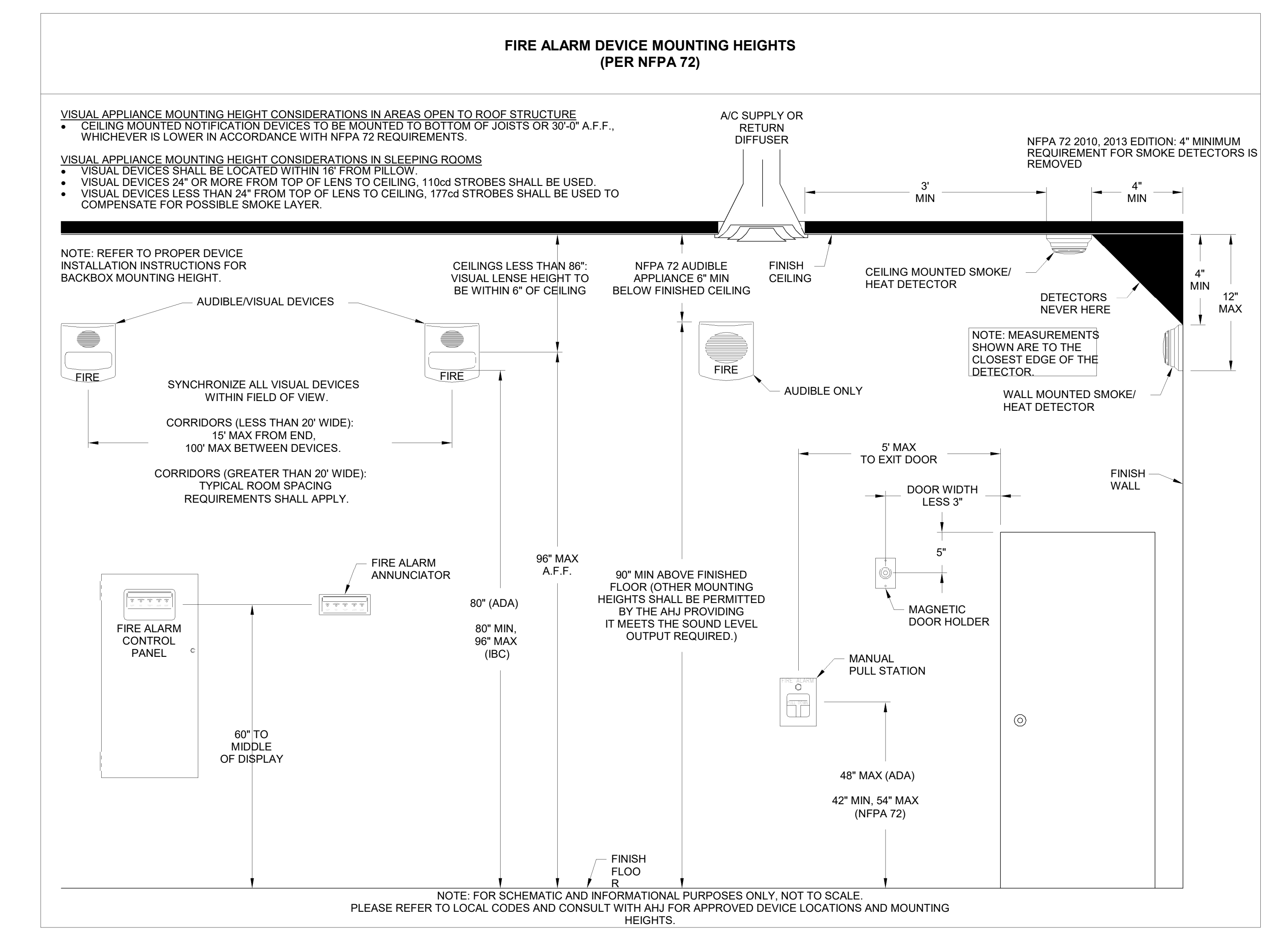
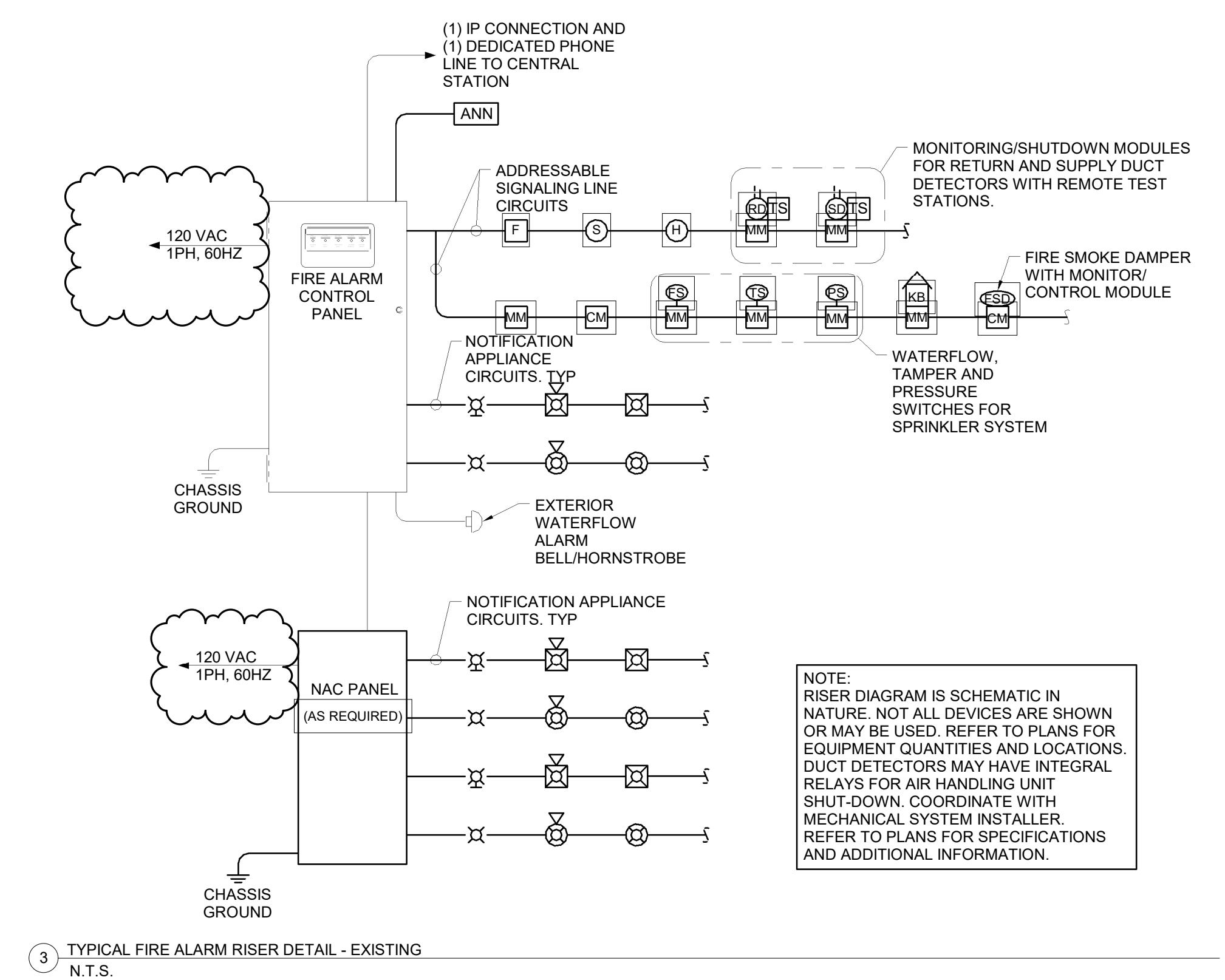
- FIRE ALARM SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 70 AND NFPA 72. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.
- INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. PERFORM REQUIRED CALCULATIONS AND COORDINATE WITH OTHER TRADES. DEVIATIONS FROM ENGINEERS LAYOUT WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED.
- PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM.
- AUDIBLE NOTIFICATION DEVICES SHALL SOUND UNTIL SILENCED AT THE CONTROL PANEL OR REMOTE ANNUNCIATOR AS REQUIRED. VISUAL ALARM IS DISPLAYED UNTIL DEVICE IS RETURNED TO ITS NORMAL POSITION OR SUPERVISORY CONDITION IS CLEARED.
- FORWARD COMPLETED FIRE ALARM CERTIFICATE OF COMPLETION TO THE OWNER.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE CONNECTION TO EXTERIOR WATERFLOW ALARM BELL AS REQUIRED.
- PROVIDE NOTIFICATION, INITIATING AND MONITORING DEVICES AS INDICATED ON THE DRAWINGS. FIRE ALARM DEVICES SHALL BE OF ONE MANUFACTURER AND SHALL BE LISTED FOR USE WITH THE FIRE ALARM CONTROL PANEL.
- PROVIDE NOTIFICATION APPLIANCE CIRCUIT PANEL(S) TO POWER NOTIFICATION DEVICES AS REQUIRED. CONNECT TO FIRE ALARM SYSTEM.
- THE FIRE ALARM CONTROL PANEL AND REMOTE ANNUNCIATOR LOCATIONS SHOWN SHALL BE COORDINATED WITH THE FIRE DEPARTMENT AND AHJ PRIOR TO INSTALLATION.
- PROVIDE DEDICATED CONNECTION OF THE FIRE ALARM SYSTEM TO A UL LISTED CENTRAL STATION.
- PROVIDE KNOX BOX FOR FIRE DEPARTMENT ACCESS. CONNECT TAMPER SWITCH TO FIRE ALARM SYSTEM AS REQUIRED.
- AIR HANDLING SYSTEMS THAT ARE MONITORED SHALL SHUTDOWN AND REMAIN DOWN UNTIL MANUALLY RESET.
- ROOF TOP AIR DISTRIBUTION SYSTEMS EXCEEDING 2,000 CFM: PROVIDE DUCT MOUNTED SMOKE DETECTORS FOR AIR HANDLING UNIT SHUTDOWN AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MONITOR MODULE FOR SUPPLY AIR DUCT DETECTOR AND RELAY/MONITOR MODULE FOR RETURN AIR DUCT DETECTOR. REFER TO MECHANICAL SHEETS FOR AIR HANDLING UNIT AND DUCTWORK LAYOUT AND DETAILS.
- DUCT SMOKE DETECTION SHALL TRANSMIT A SUPERVISORY SIGNAL TO THE FACP.

FIRE ALARM INSTALLATION NOTES

- SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 72 AND LOCAL CODES AND REGULATIONS. ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- INTERFACE WITH AND MONITOR ALL FIRE SUPPRESSION SYSTEM DEVICES INCLUDING (BUT NOT LIMITED TO) SPRINKLER FLOW AND TAMPER SWITCHES.
- WIRE AND CABLE SHALL BE UL LISTED AND LABELED AS COMPLYING WITH NFPA 70, ARTICLE 760. SIGNALING LINE CIRCUITS TO BE TWISTED, SHIELDED PAIR, SIZED AS RECOMMENDED BY SYSTEM MANUFACTURER. NON-POWER-LIMITED CIRCUITS TO BE SOLID-COPPER CONDUCTORS WITH 600-V RATED, 75 DEG C, COLOR-CODED INSULATION.
9.1 LOW-VOLTAGE CIRCUITS: NO. 16 AWG, MINIMUM
9.2 LINE-VOLTAGE CIRCUITS: NO. 12 AWG, MINIMUM
- INSTALL AND TEST SYSTEMS ACCORDING TO NFPA 72. COMPLY WITH NECA 1.
- TEST ALL SYSTEM DEVICES FOR PROPER OPERATION IN THE PRESENCE OF THE AHJ AND OTHER OFFICIALS INSPECTING THE FIRE ALARM SYSTEM.
- IF REQUIRED BY THE LOCAL AHJ, EQUIPMENT DATA SHEETS AND BATTERY CALCULATIONS IN ACCEPTANCE WITH NFPA 72 SHALL BE PERFORMED BY THE FIRE ALARM SYSTEM MANUFACTURER/INSTALLER TO MATCH EQUIPMENT TO BE INSTALLED.
- SYSTEM INSTALLER SHALL BE A LICENSED FIRE ALARM CONTRACTOR IN THE RESPECTIVE STATE OF THIS PROJECT.
- FIRE ALARM CONTROL PANEL SHALL BE MODULAR, POWER-LIMITED DESIGN WITH ELECTRONIC MODULES, UL 864 LISTED, AND DESIGNED TO TRANSMIT ALARM, TROUBLE, AND SUPERVISORY SIGNALS TO A UL LISTED CENTRAL STATION THROUGH A DIGITAL ALARM COMMUNICATOR TRANSMITTER WITH (1) ETHERNET PORT CONNECTION AND (1) DEDICATED TELEPHONE LINE.
- PROVIDE 120VAC POWER THROUGH DEDICATED LOCKING BREAKER AT POWER PANEL.
- GROUND THE FACP AND ALL ASSOCIATED CIRCUITS.
- INSTALL A #6 AWG GROUND WIRE FROM THE TELE-COMMUNICATIONS EQUIPMENT GROUNDING POINT TO THE FACP.
- SYSTEM SHALL INCLUDE 24V DC POWER SYSTEM WITH SEALED LEAD CALCIUM BATTERIES AND AUTOMATIC BATTERY CHARGER IN ACCORDANCE WITH NFPA 72.
- PROVIDE (1) IP CONNECTION TO CUSTOMERS INTERNET NETWORK AND (1) DEDICATED TELEPHONE LINE TERMINATED WITH (1) RJ-31X MODULAR OUTLET AT DACT LOCATION.

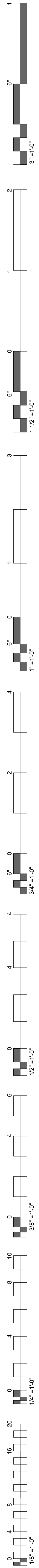
FIRE ALARM LEGEND

	SMOKE DETECTOR
	HEAT DETECTOR
	DUCT DETECTOR
	WALL MOUNT HORN STROBE
	CEILING MOUNT HORN STROBE
	WALL MOUNT STROBE
	CEILING MOUNT STROBE
	PULL STATION
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	FIRE ALARM MONITOR MODULE
	FIRE ALARM CONTROL MODULE

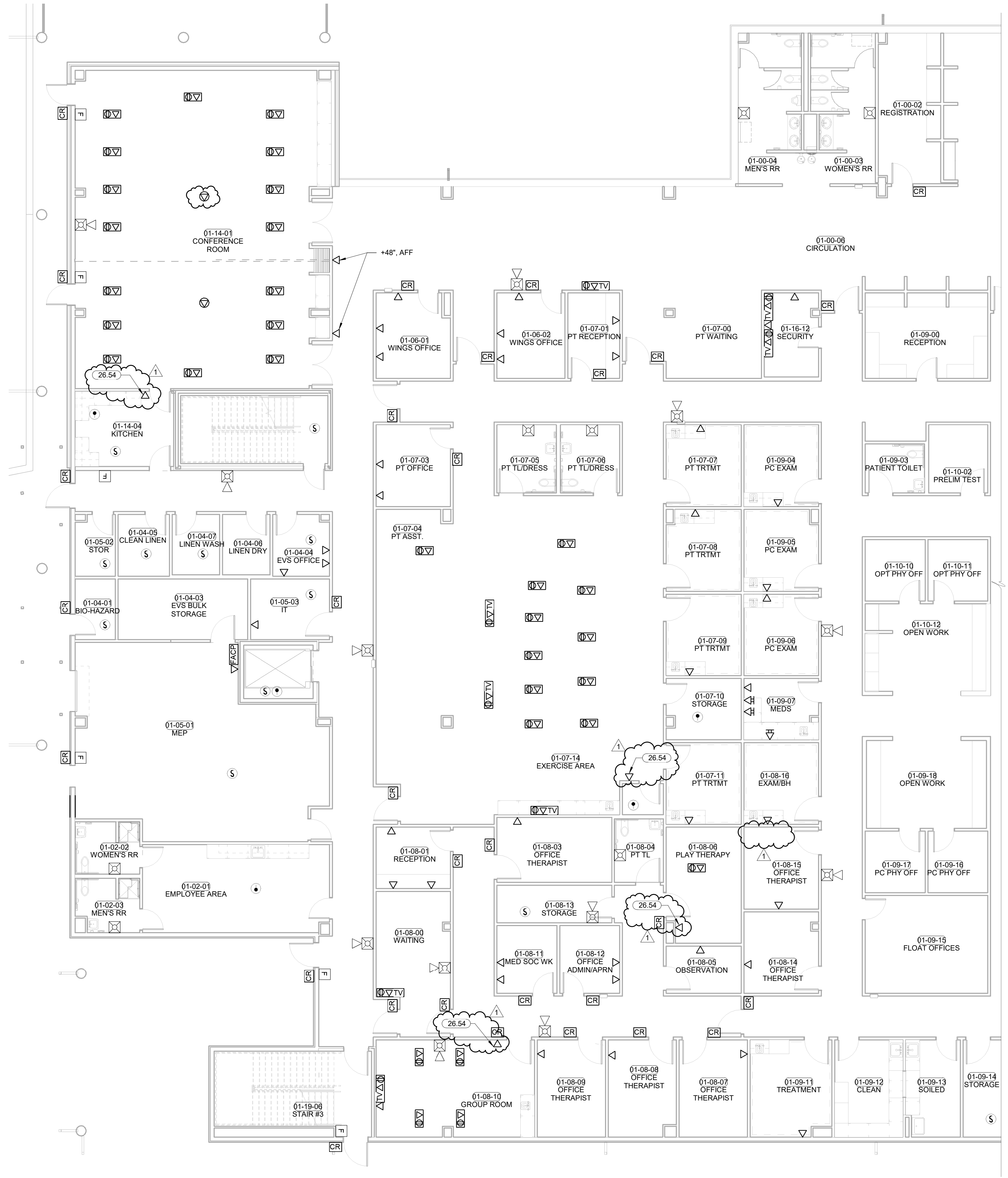


2 FIRE ALARM MOUNTING HEIGHTS
N.T.S.

3 TYPICAL FIRE ALARM RISER DETAIL - EXISTING
N.T.S.

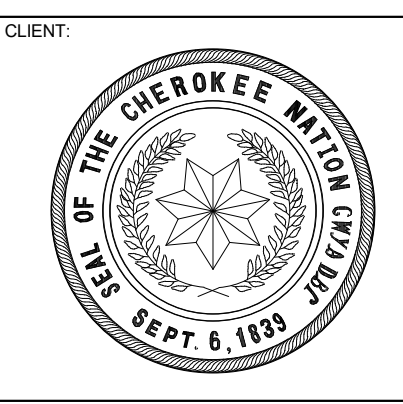
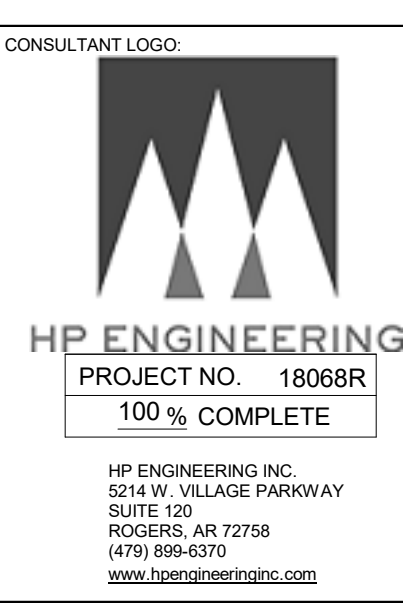
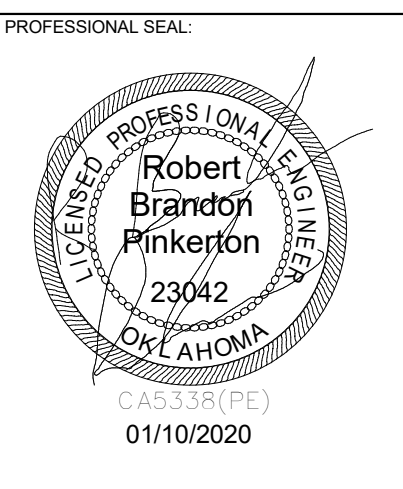


KEYNOTES
 26.54 WALL-MOUNTED TELEPHONE TO BE SPECIFIED BY OWNER.
 MOUNT AT +48" UNLESS DIRECTED OTHERWISE BY OWNER.

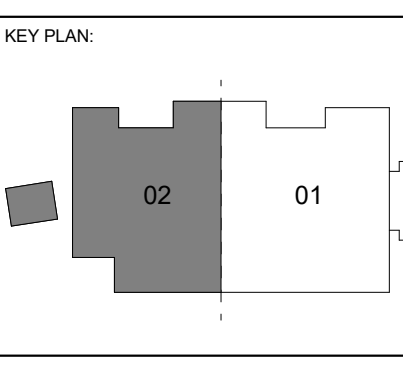


PLAN NORTH TRUE NORTH
1 SYSTEMS PLAN LEVEL 01 SECTOR 02
 1/8" = 1'-0"

James R. Childers Architect, Inc.
 45 South 4th Street
 Fort Smith, AR 72901
 479-783-2450
 www.childersarchitect.com



**WILMA P. MANKILLER HEALTH CENTER
 EXPANSION**
 STILLWELL, OKLAHOMA

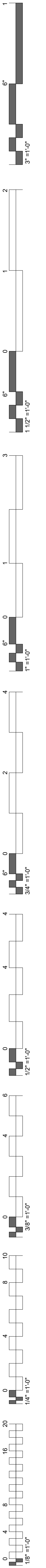


PROJECT PHASE:
BID PACKAGE 02

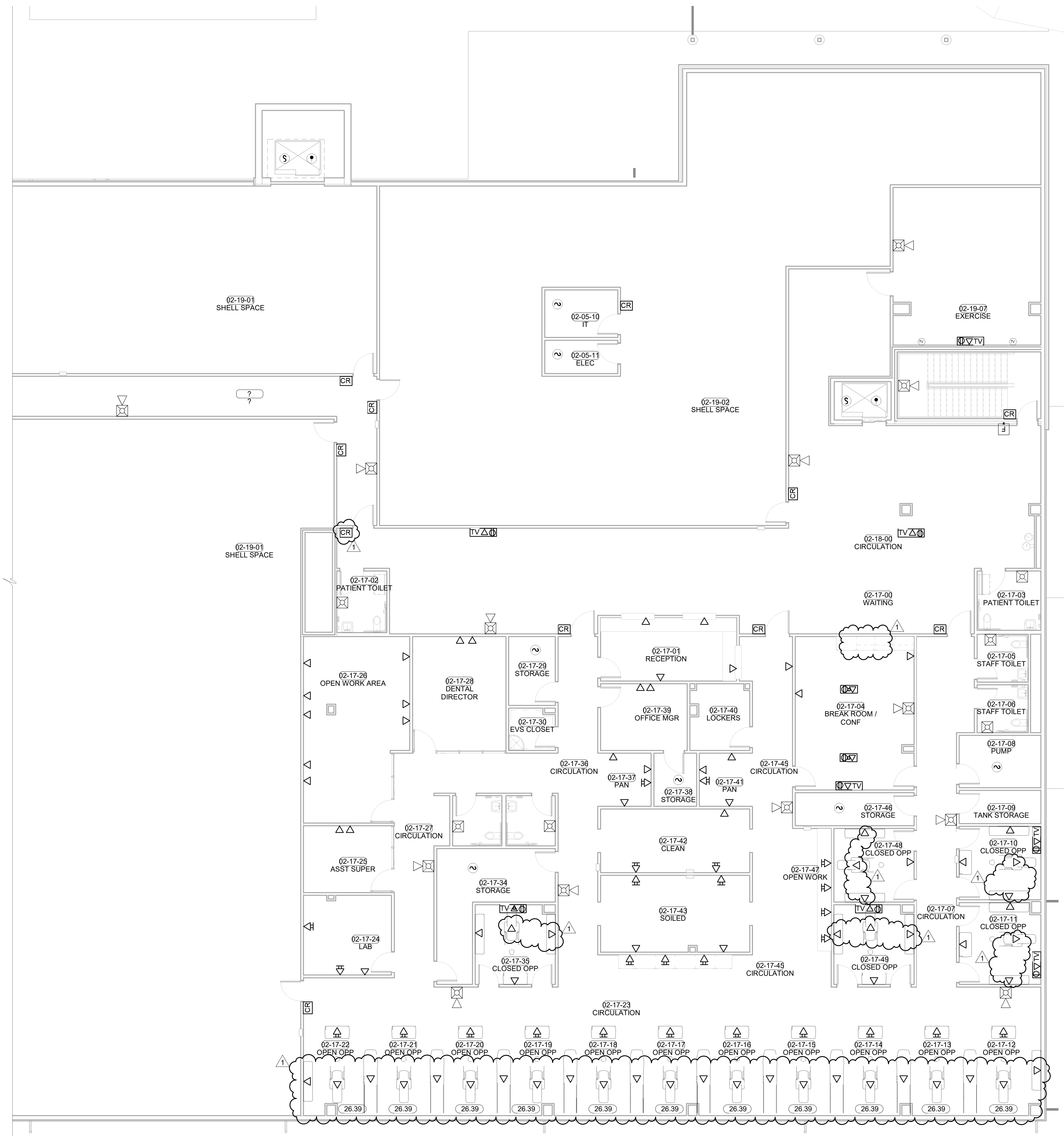
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1	1/19/20	BID PACKAGE 02 - ADD 01

DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
E1.21
SYSTEMS PLAN LEVEL 01 SECTOR 02



KEYNOTES
 26.39 REFER TO ADEC DRAWINGS AND PROVIDE A CONTINUOUS CONDUIT PATH AS DRAWN IN THE ADEC PLAN.

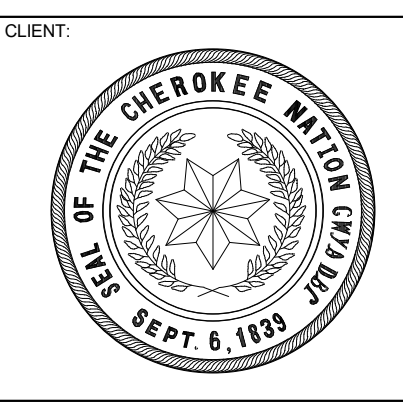


PLAN NORTH TRUE NORTH
1 SYSTEMS PLAN LEVEL 02 SECTOR 01
 1/8" = 1'-0"

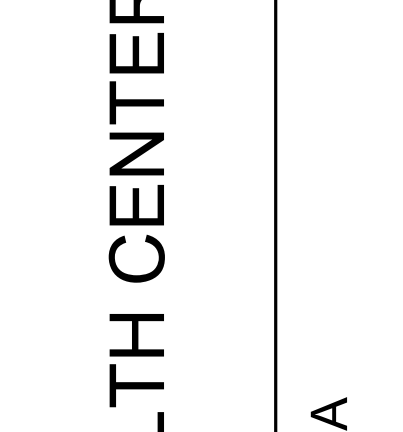


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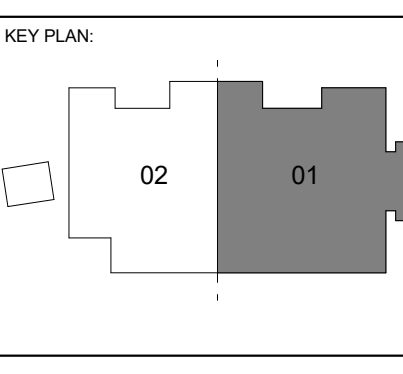
PROFESSIONAL SEAL
Robert Pinkerton
 23042
 CIVIL ENGINEER
 STATE OF OKLAHOMA
 01/10/2020



HP ENGINEERING
 PROJECT NO. 1806BR
 100% COMPLETE



**WILMA P. MANKILLER HEALTH CENTER
 EXPANSION**
 STILLWELL, OKLAHOMA



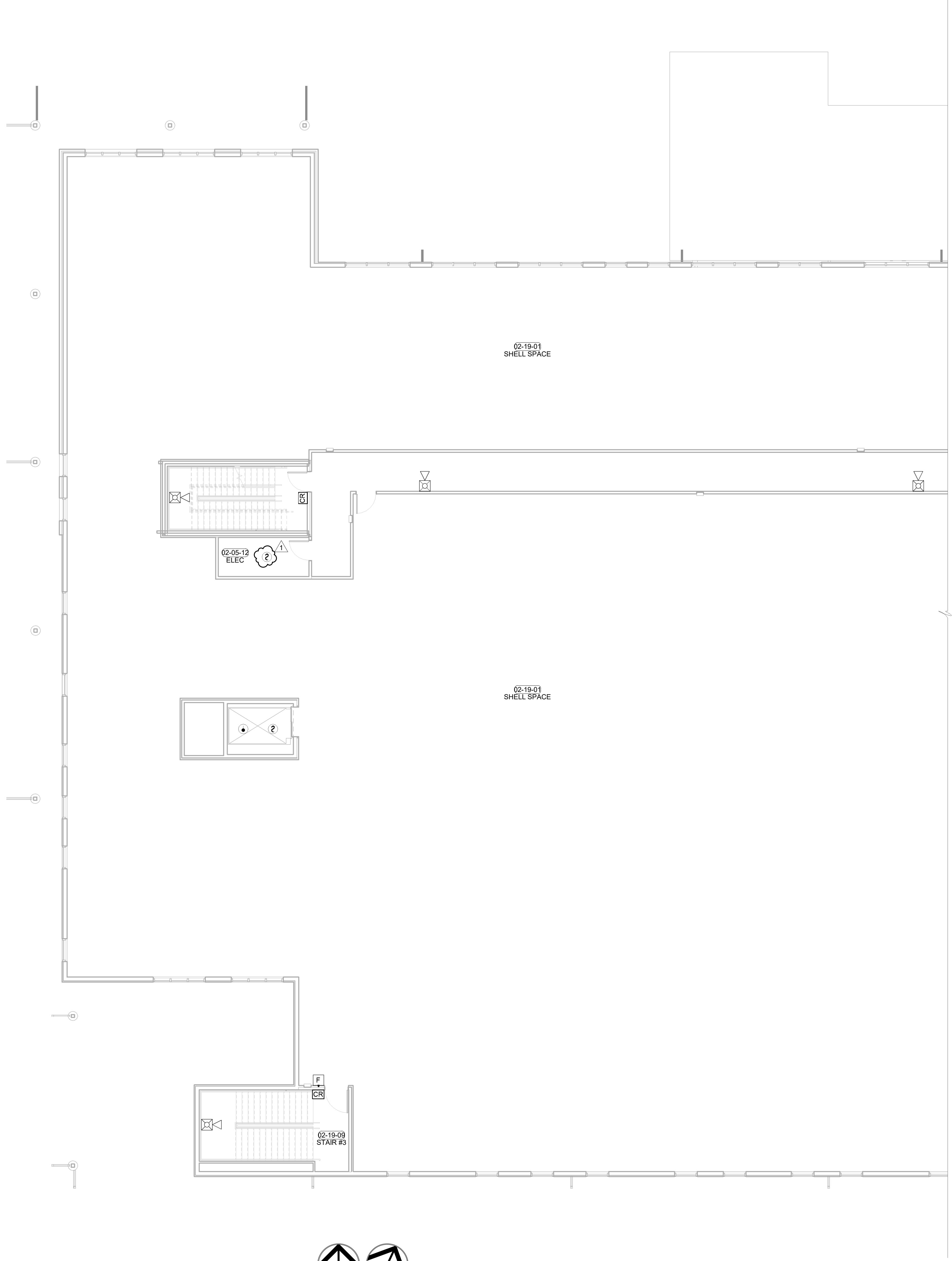
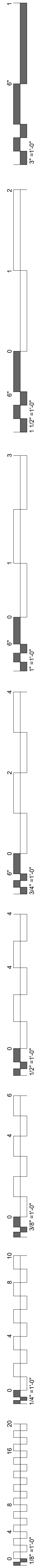
PROJECT PHASE
 BID PACKAGE 02

#	DATE	REVISION DESCRIPTION
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DATE: 12-06-19 JOB NUMBER: 18-01.01

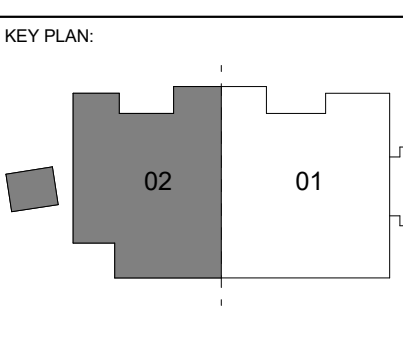
SHEET NUMBER: E1.22

**SYSTEMS PLAN
 LEVEL 02
 SECTOR 01**



1 SYSTEMS PLAN LEVEL 02 SECTOR 02
 1/8" = 1'-0"

**WILMA P. MANKILLER HEALTH CENTER
 EXPANSION**
 STILLWELL, OKLAHOMA



PROJECT PHASE
 BID PACKAGE 02

#	DATE	REVISIONS DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 01

DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
E1.23

**SYSTEMS PLAN
 LEVEL 02
 SECTOR 02**

LUMINAIRE SCHEDULE

- NOTES:
 1. EC SHALL PROVIDE A SUBMITTAL PACKAGE INCLUDING CUTSHEETS FOR EACH FIXTURE.
 2. EC SHALL PROVIDE ALL ACCESSORIES FOR A COMPLETE ASSEMBLY INCLUDING MOUNTING HARDWARE.
 3. THE MOUNTING TYPE OF EACH FIXTURE SHALL BE COMPATIBLE WITH INSTALLATION SURFACE OF EACH FIXTURE.
 4. ALL FINISHES SHALL BE COORDINATED WITH ARCHITECT AND DOCUMENTED ON SUBMITTALS.

TYPE	LAMP	BALLAST / DRIVER	VOLTS	WATTS	DESCRIPTION	MANUFACTURER
A1	LED, 3500K	10-100%	120/277	32 W	2X4, TROFFER, CENTER BASKET TROFFER, 4000LM, 80CRI	VISIONEERING - LRTF
A2	LED, 3500K	10-100%	120/277	32 W	2X4, TROFFER, CENTER BASKET TROFFER, 3800LM, 80CRI	VISIONEERING - LRTF
C1	LED, 3500K	10-100%	120/277	12 W	6", RECESSED, DOWNLIGHT, 1300LM, 80CRI	VANTAGE - VECR
E1	(2) LED	BATTERY	120/277	2 W	EMERGENCY LIGHT, SELF DIAGNOSTIC	MULE LIGHTING INC - SQ-LED
G1	LED, 3500K	10-100%	120/277	35 W	4" SURFACE STRIP, 4000LM, 80CRI	VISIONEERING - L-COMN
G2	LED, 3500K	10-100%	120/277	40 W	4" LED STAIRWELL FIXTURE, 4767LM, 80CRI	ILP-CV
G3	LED, 3500K	10-100%	120/277	35 W	4" LED SEALED VAPOR B, 4000LM, 80CRI	VISIONEERING - LSVB
L2	LED, 3500K	10-100%	120/277	36 W	4"X2" LINEAR RECESSED FLUSH MOUNT FIXTURE 500LM/FT, 80CRI	LUX - EOS
L3	LED, 4000K	10-100%	120/277	38 W	4"X4" LINEAR RECESSED FLUSH MOUNT FIXTURE 650LM/FT, 80CRI	FORUM AQR-F SERIES
A2	LED, 3500K	10-100%	120/277	32 W	2X4, TROFFER, CENTER BASKET TROFFER, 4000LM, 80CRI	VISIONEERING - LRTF
S2	LED, 4000K	STANDARD	120/277	494 W	25' POLE LIGHT, FORWARD THROW, 30000LM	LSI - MRM
S3	LED, 4000K	STANDARD	120/277	500 W	25' POLE LIGHT, FORWARD THROW, 30000LM	LSI - MRM
S4	LED, 3500K	10-100% BATTERY	120/277	14 W	7" 2" WEATHER PROOF AREA LIGHT	IN-LIGHTING KHA SLIM
W1	LED, 4000K	STANDARD	120/277	45 W	WALL PACK, TRAPEZOID, 6000LM, 70CRI	LSI-XWM
X	LED	N/A	120/277	5 W	EXIT SIGN, SELF DIAGNOSTIC, RED LETTERS, WHITE	SURE LITES - UNH
X1	LED	BATTERY	120/277	5 W	EXIT SIGN, EDGE LIT, AC ONLY	MULE LIGHTING INC

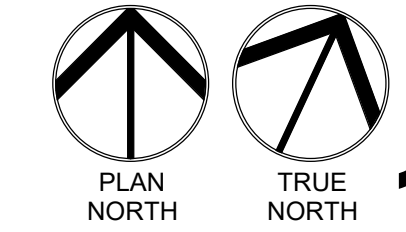
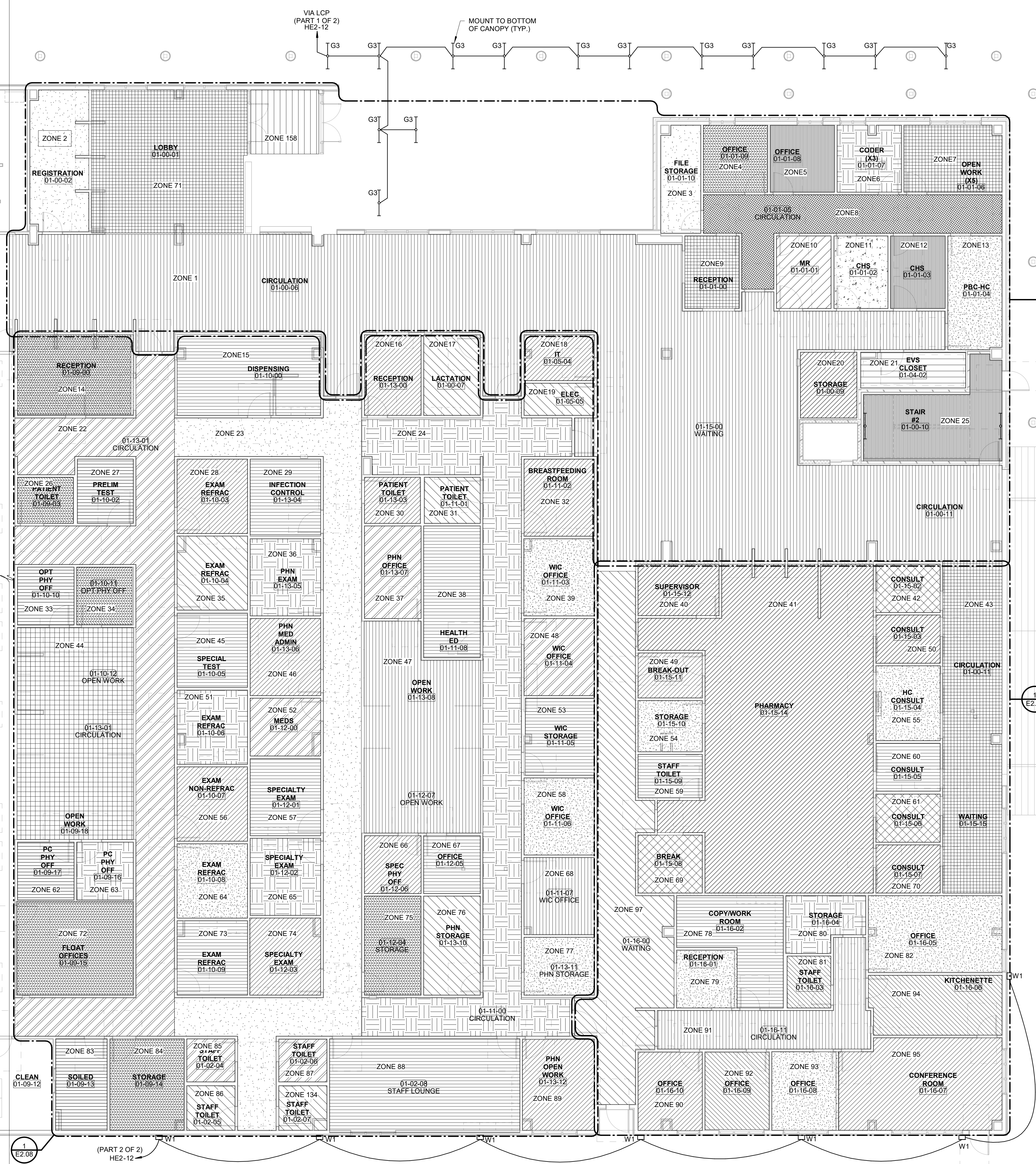
CRESTRON PART NUMBER	SCHEDULE NUMBER
GLPP15W-105-0CC	1
GLPP15W-105-0CC	2
GLPP15W-105-0CC	3
GLPP15W-105-0CC	4
GLPP15W-KIP	5
CORRIDOR	6
STAIRWELL	7
GLPP15W-2QUAD-0CC	8
GLPP25W-KIP-KIP-105-0CC	9
GLPP15W-205-0CC	10
GLPAC4-AKP-AKP-205-0CC-1PART	11
GLPP15W-405-0CC	12
GLPP15W-KIP-KIP	13
SHELL SPACE	14

KEYNOTES

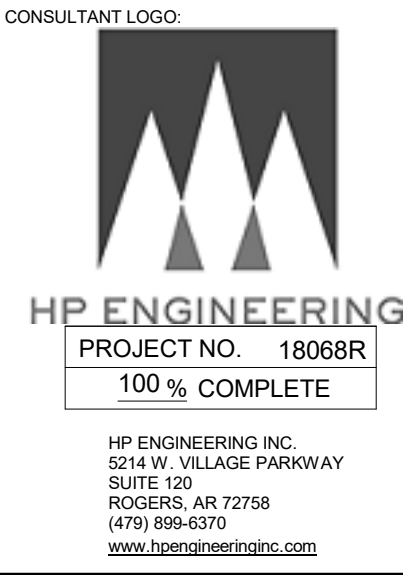
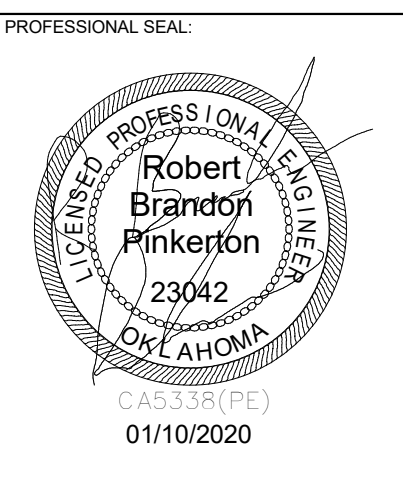
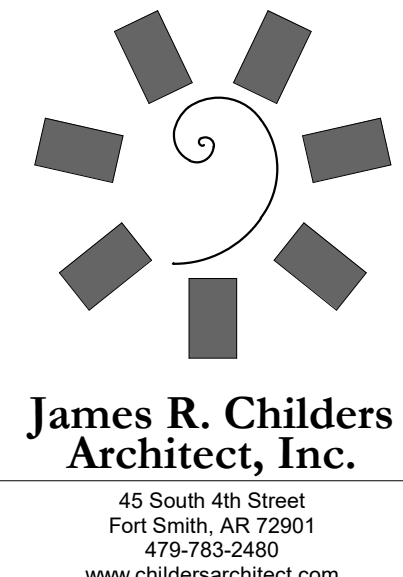
KITCHEN POWER NOTES

INTERLOCK DEVICES LOCATED UNDER KITCHEN HOOD WITH FIRE SUPPRESSION SYSTEM. DEVICES AND GAS CONNECTIONS SHALL BE AUTOMATICALLY SHUTOFF IN THE EVENT OF FIRE SUPPRESSION SYSTEM ACTIVATION. PROVIDE SHUNT-TRIP CAPABILITY FOR DEVICES LOCATED UNDER HOOD, EVEN IF NOT SPECIFICALLY INDICATED IN THE DRAWINGS.
 INTERLOCK HOOD EXHAUST FAN, SUPPLY FAN AND LIGHTS WITH FIRE SUPPRESSION SYSTEM. DEVICES SHALL BE AUTOMATICALLY SHUTOFF IF FIRE SUPPRESSION SYSTEM IS ACTIVATED.

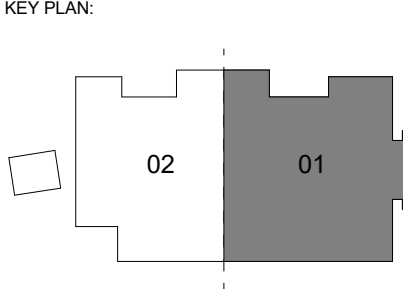
ZONE	EGRESS	OCCUPANCY SENSOR TYPE	SWITCH TYPE	CRESTRON PART NUMBER	ZONE	EGRESS	OCCUPANCY SENSOR TYPE	SWITCH TYPE	CRESTRON PART NUMBER
1	YES	CEILING	NA	6	79	NO	CEILING	NA	1
2	YES	CEILING	KEYPAD	2	80	NO	CEILING	NA	1
3	NO	CEILING	NA	1	81	YES	CEILING	NA	1
4	NO	CEILING	KEYPAD	2	82	YES	CEILING	KEYPAD	2
5	NO	CEILING	KEYPAD	2	83	NO	CEILING	NA	1
6	NO	CEILING	KEYPAD	2	84	NO	CEILING	KEYPAD	2
7	YES	CEILING	KEYPAD	2	85	YES	CEILING	NA	1
8	YES	CEILING	NA	6	86	YES	CEILING	NA	1
9	YES	CEILING	KEYPAD	2	87	YES	CEILING	NA	1
10	YES	CEILING	KEYPAD	2	88	YES	CEILING	NA	10
11	YES	CEILING	KEYPAD	2	89	YES	CEILING	KEYPAD	2
12	YES	CEILING	KEYPAD	2	90	NO	CEILING	KEYPAD	2
13	YES	CEILING	KEYPAD	4	91	YES	CEILING	NA	6
14	YES	CEILING	KEYPAD	2	92	NO	CEILING	NA	2
15	YES	CEILING	KEYPAD	2	93	NO	CEILING	NA	2
16	YES	CEILING	KEYPAD	2	94	YES	CEILING	NA	1
17	YES	CEILING	KEYPAD	3	95	YES	CEILING	KEYPAD	9
18	YES	NA	KEYPAD	5	96	YES	CEILING	KEYPAD	11
19	NA	NA	MANUAL	NA	98	YES	CEILING	NA	6
20	NO	CEILING	NA	1	99	YES	CEILING	NA	10
21	NO	CEILING	NA	1	100	YES	CEILING	NA	10
22	YES	CEILING	NA	6	101	YES	CEILING	NA	1
23	YES	CEILING	NA	6	102	NO	CEILING	KEYPAD	2
24	YES	CEILING	NA	6	103	NO	CEILING	KEYPAD	2
25	YES	CEILING	NA	7	104	YES	CEILING	KEYPAD	2
26	YES	CEILING	NA	1	105	YES	CEILING	KEYPAD	2
27	YES	CEILING	KEYPAD	2	106	YES	CEILING	KEYPAD	4
28	YES	CEILING	KEYPAD	3	107	YES	CEILING	NA	7
29	YES	CEILING	KEYPAD	2	108	YES	CEILING	NA	6
30	YES	CEILING	NA	1	109	YES	CEILING	NA	6
31	YES	CEILING	NA	1	110	YES	CEILING	KEYPAD	2
32	YES	CEILING	KEYPAD	3	111	YES	CEILING	NA	1
33	NO	CEILING	KEYPAD	2	112	YES	CEILING	NA	1
34	NO	CEILING	KEYPAD	2	113	YES	CEILING	NA	1
35	YES	CEILING	KEYPAD	3	114	YES	CEILING	NA	1
36	YES	CEILING	KEYPAD	2	115	NO	CEILING	NA	1
37	YES	CEILING	KEYPAD	2	116	NO	CEILING	NA	1
38	YES	CEILING	NA	1	117	NO	CEILING	NA	1
39	NO	CEILING	KEYPAD	2	118	NO	CEILING	NA	1
40	NO	CEILING	KEYPAD	2	119	NO	CEILING	KEYPAD	2
41	YES	CEILING	NA	10	120	YES	CEILING	NA	12
42	YES	CEILING	NA	1	121	YES	CEILING	NA	1
43	YES	CEILING	NA	6	122	YES	CEILING	NA	1
44	YES	CEILING	NA	1	123	NO	CEILING	NA	1
45	YES	CEILING	KEYPAD	3	124	NO	CEILING	NA	1
46	NO	CEILING	KEYPAD	2	125	YES	NA	KEYPAD	5
47	YES	CEILING	NA	10	126	YES	CEILING	NA	1
48	NO	CEILING	KEYPAD	2	127	YES	CEILING	NA	1
49	YES	CEILING	NA	1	128	NA	NA	MANUAL	NA
50	YES	CEILING	NA	1	129	YES	CEILING	NA	1
51	YES	CEILING	KEYPAD	3	130	YES	CEILING	NA	1
52	YES	CEILING	KEYPAD	2	131	YES	CEILING	NA	1
53	NO	CEILING	NA	1	132	YES	CEILING	NA	1
54	NO	CEILING	NA	1	133	MP	SWITCH	NA	1
55	YES	CEILING	NA	1	134	YES	CEILING	NA	1
56	YES	CEILING	KEYPAD	3	135	YES	CEILING	NA	1
57	YES	CEILING	KEYPAD	2	136	YES	CEILING	NA	1
58	NO	CEILING	KEYPAD	2	137	YES	CEILING	NA	10
59	YES	CEILING	NA	1	138	YES	CEILING	KEYPAD	2
60	YES	CEILING	NA	1	139	YES	CEILING	NA	1
61	YES	CEILING	NA	1	140	YES	CEILING	NA	1
62	NO	CEILING	KEYPAD	2	141	YES	CEILING	KEYPAD	2
63	NO	CEILING	KEYPAD	2	142	YES	CEILING	NA	1
64	YES	CEILING	KEYPAD	3	143	YES	CEILING	NA	1
65	YES	CEILING	KEYPAD	2	144	YES	CEILING	NA	6
66	NO	CEILING	KEYPAD	2	145	NO	CEILING	NA	1
67	NO	CEILING	KEYPAD	2	147	YES	CEILING	KEYPAD	2
68	NO	CEILING	KEYPAD	2	148	YES	CEILING	KEYPAD	2
69	YES	CEILING	NA	1	149	YES	CEILING	KEYPAD	2
70	YES	CEILING	NA	1	150	YES	CEILING	NA	1
71	YES	CEILING	NA	6	151	YES	CEILING	KEYPAD	2
72	YES	CEILING	KEYPAD	2	152	YES	CEILING	KEYPAD	2
73	YES	CEILING	KEYPAD	3	153	YES	CEILING	KEYPAD	2
74	YES	CEILING	KEYPAD	2	154	YES	CEILING	KEYPAD	2
75	NO	CEILING	NA	1	155	YES	CEILING	KEYPAD	2
76	NO	CEILING	NA	1	156	NO	CEILING	NA	1
77	NO	CEILING	NA	1	157	YES	CEILING	NA	7
78	YES	CEILING	NA	1	158	YES	CEILING	NA	6



1 LIGHTING PLAN LEVEL 01 SECTOR 01
 1/8" = 1'-0"



WILMA P. MANKILLER HEALTH CENTER
 EXPANSION
 STILLWELL, OKLAHOMA

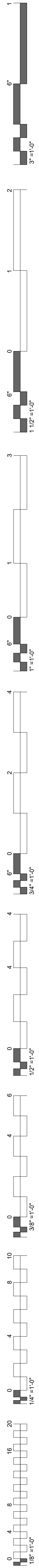


PROJECT PHASE:
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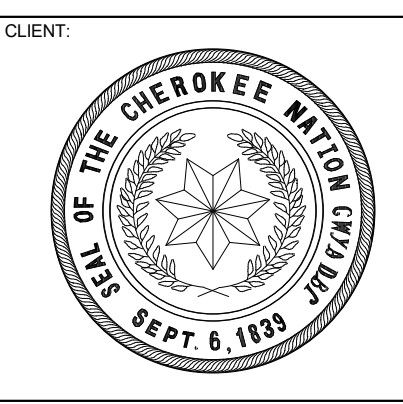
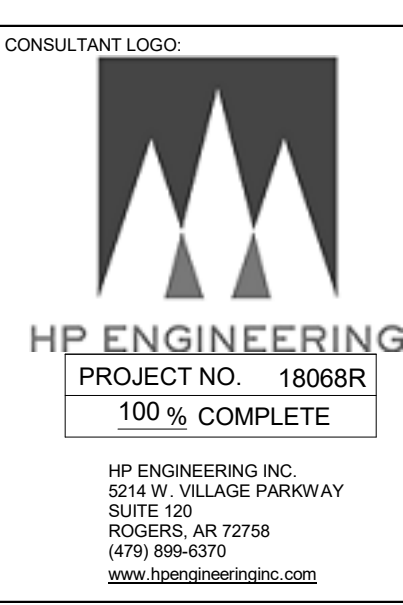
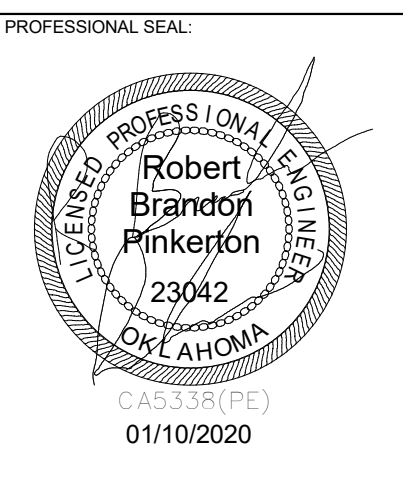
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DATE: 12-06-19
 JOB NUMBER: 18-01-01

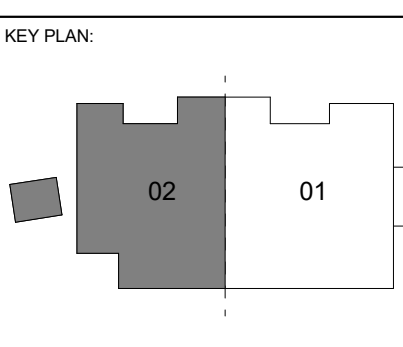
SHEET NUMBER:
 E2.01
 ZONING PLAN
 LEVEL 01
 SECTOR 01



PLAN NORTH TRUE NORTH
1 LIGHTING PLAN LEVEL 01 SECTOR 02
 1/8" = 1'-0"



**WILMA P. MANKILLER HEALTH CENTER
 EXPANSION**
 STILLWELL, OKLAHOMA



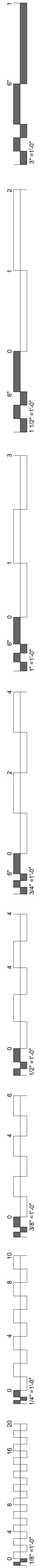
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BID PACKAGE 02

#	DATE	REVISION DESCRIPTION
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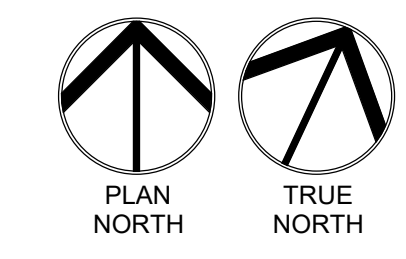
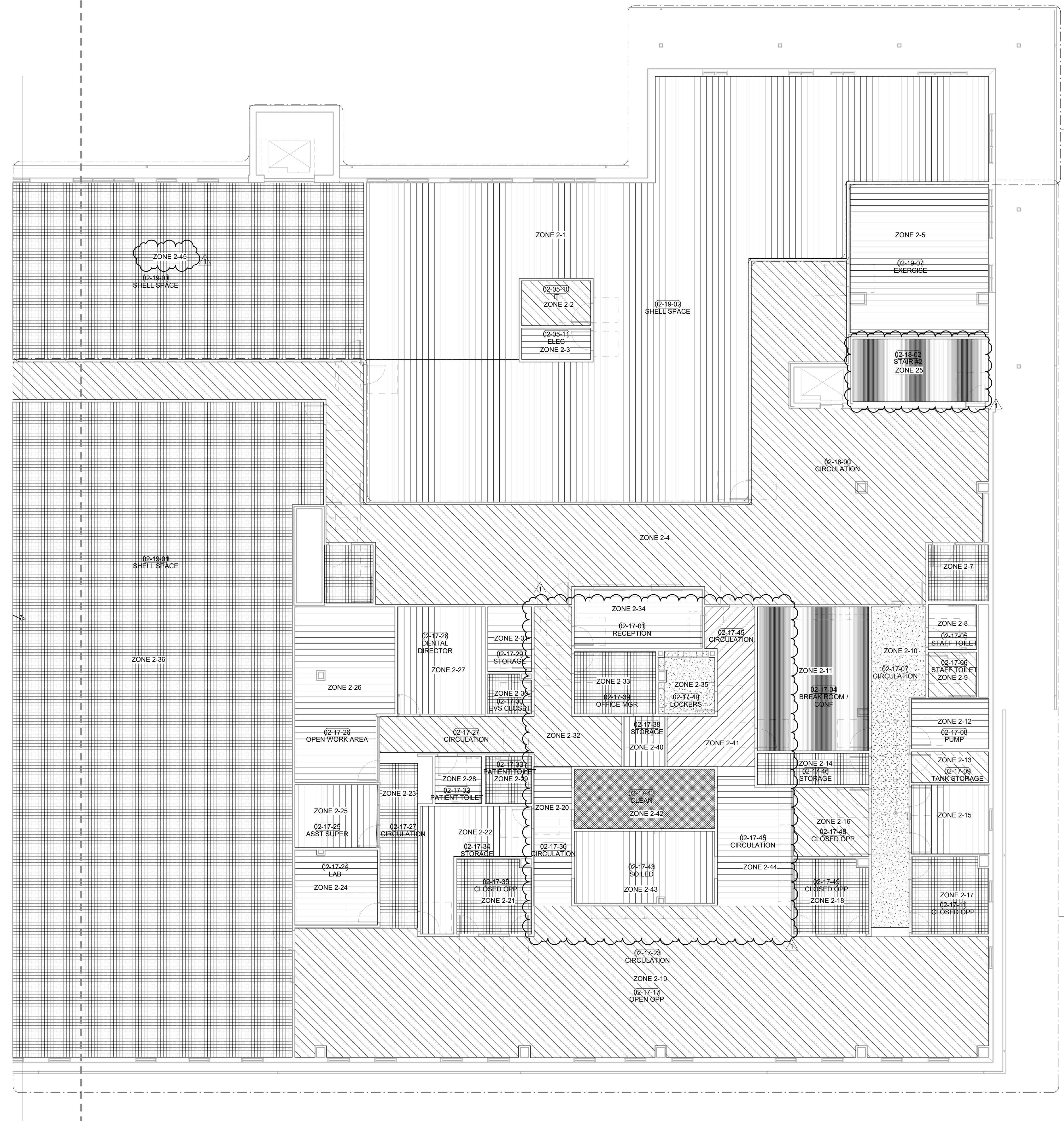
DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
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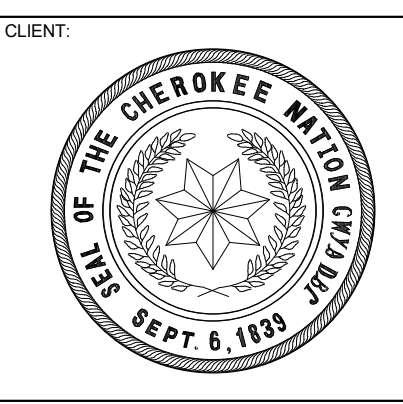
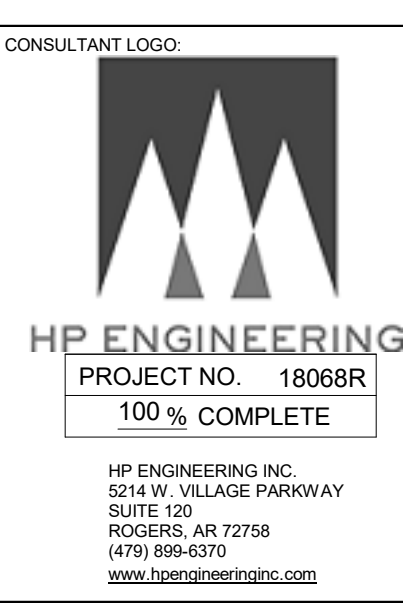
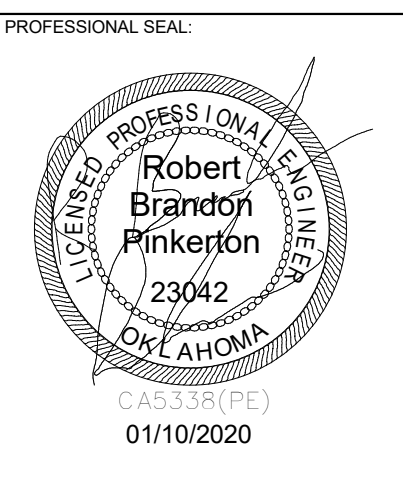
**ZONING PLAN
 LEVEL 01
 SECTOR 02**



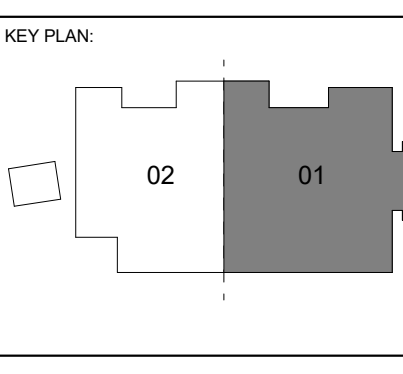
ZONE	EGRESS	OCCUPANCY SENSOR TYPE	SWITCH TYPE	CRESTRON PART NUMBER
2-1	NO	NA	KEYPAD	14
2-2	YES	NA	KEYPAD	5
2-3	NA	NA	MANUAL	NA
2-4	YES	CEILING	NA	6
2-5	YES	CEILING	KEYPAD	2
2-6	YES	CEILING	NA	7
2-7	YES	CEILING	NA	1
2-8	YES	CEILING	NA	1
2-9	YES	CEILING	NA	1
2-10	YES	CEILING	NA	6
2-11	YES	CEILING	KEYPAD	4
2-12	YES	CEILING	KEYPAD	2
2-13	YES	CEILING	KEYPAD	2
2-14	NO	CEILING	NA	1
2-15	YES	CEILING	KEYPAD	4
2-16	YES	CEILING	KEYPAD	4
2-17	YES	CEILING	KEYPAD	4
2-18	YES	CEILING	KEYPAD	4
2-19	YES	CEILING	NA	6
2-20	YES	CEILING	NA	6
2-21	YES	CEILING	KEYPAD	4
2-22	NO	CEILING	NA	1
2-23	YES	CEILING	NA	6
2-24	YES	CEILING	KEYPAD	2
2-25	NO	CEILING	KEYPAD	2
2-26	YES	CEILING	NA	1
2-27	NO	CEILING	KEYPAD	2
2-28	YES	CEILING	NA	1
2-29	YES	CEILING	NA	1
2-30	YES	CEILING	NA	1
2-31	NO	CEILING	NA	1
2-32	YES	CEILING	NA	6
2-33	YES	CEILING	KEYPAD	2
2-34	YES	CEILING	KEYPAD	2
2-35	YES	CEILING	KEYPAD	2
2-36	NO	NA	KEYPAD	14
2-37	NO	CEILING	MANUAL	NA
2-38	YES	CEILING	NA	7
2-39	YES	CEILING	NA	7
2-40	NO	CEILING	NA	2
2-41	YES	CEILING	NA	6
2-42	YES	CEILING	NA	6
2-43	YES	CEILING	NA	6
2-44	YES	CEILING	NA	6
2-45	NO	NA	KEYPAD	14



LIGHTING PLAN LEVEL 02 SECTOR 01
1/8" = 1'-0"



WILMA P. MANKILLER HEALTH CENTER
EXPANSION
STILWELL, OKLAHOMA



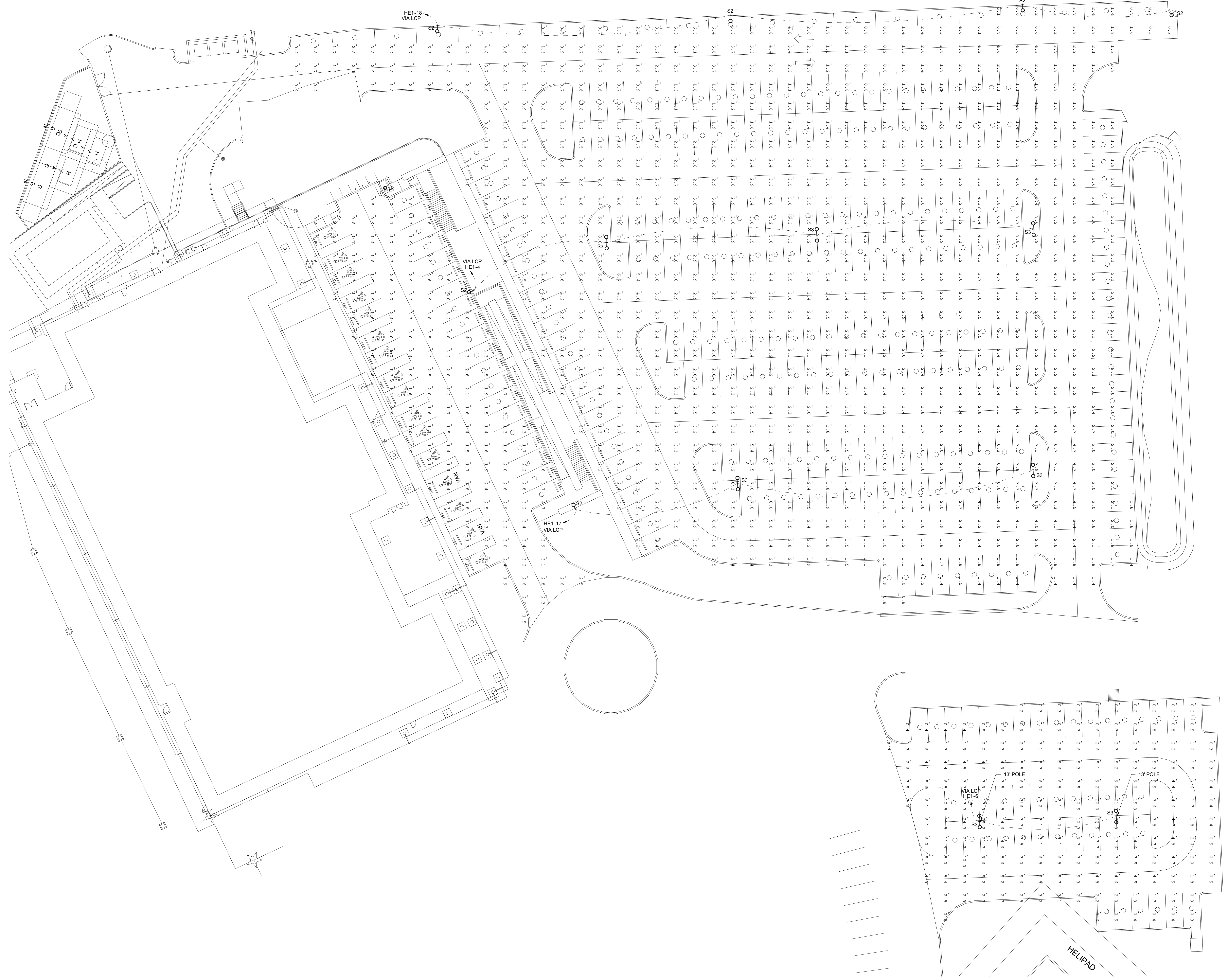
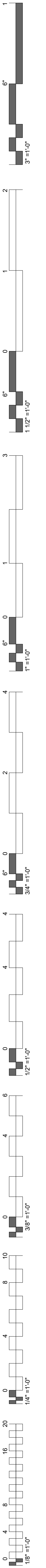
PROJECT PHASE
BID PACKAGE 02



#	DATE	REVISION DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 01

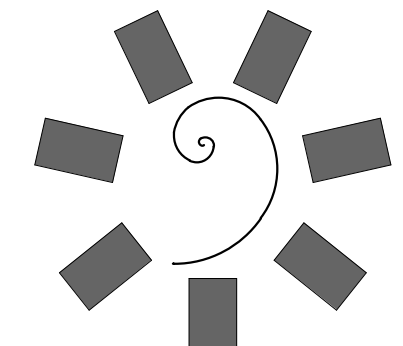
DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER: E2.03

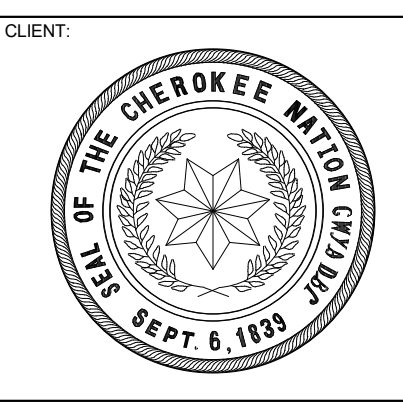
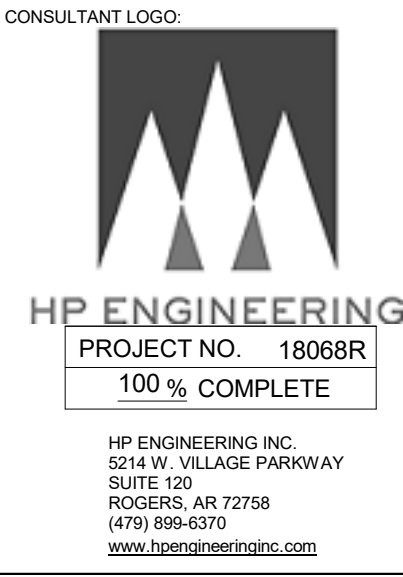
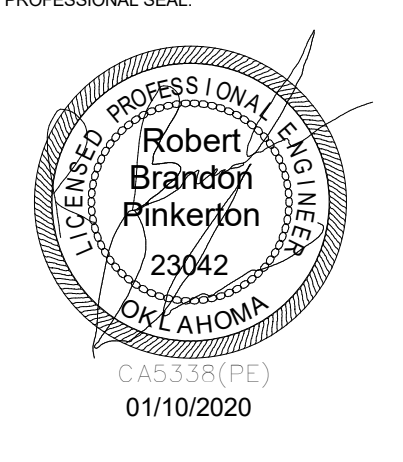
ZONING PLAN
LEVEL 02
SECTOR 01





SITE LIGHTING PLAN
 1" = 20'-0"



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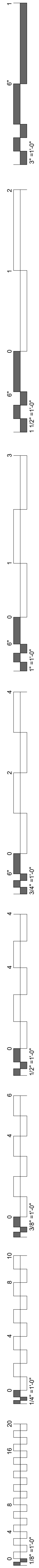
KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

#	DATE	REVISIONS / DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 01

DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
E2.05
SITE LIGHTING PLAN



KEYNOTES	
Key Value	Keynote Text
26.41	COORDINATE ELEVATOR SERVICE LIGHT WITH ELEVATOR INSTALLER SO NOT TO INTERFERE WITH ELEVATOR CLEARANCES OR OPERATION.

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Professional Engineer
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01/10/2020

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SEPT. 6, 1839

**WILMA P. MANKILLER HEALTH CENTER
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STILWELL, OKLAHOMA

KEY PLAN

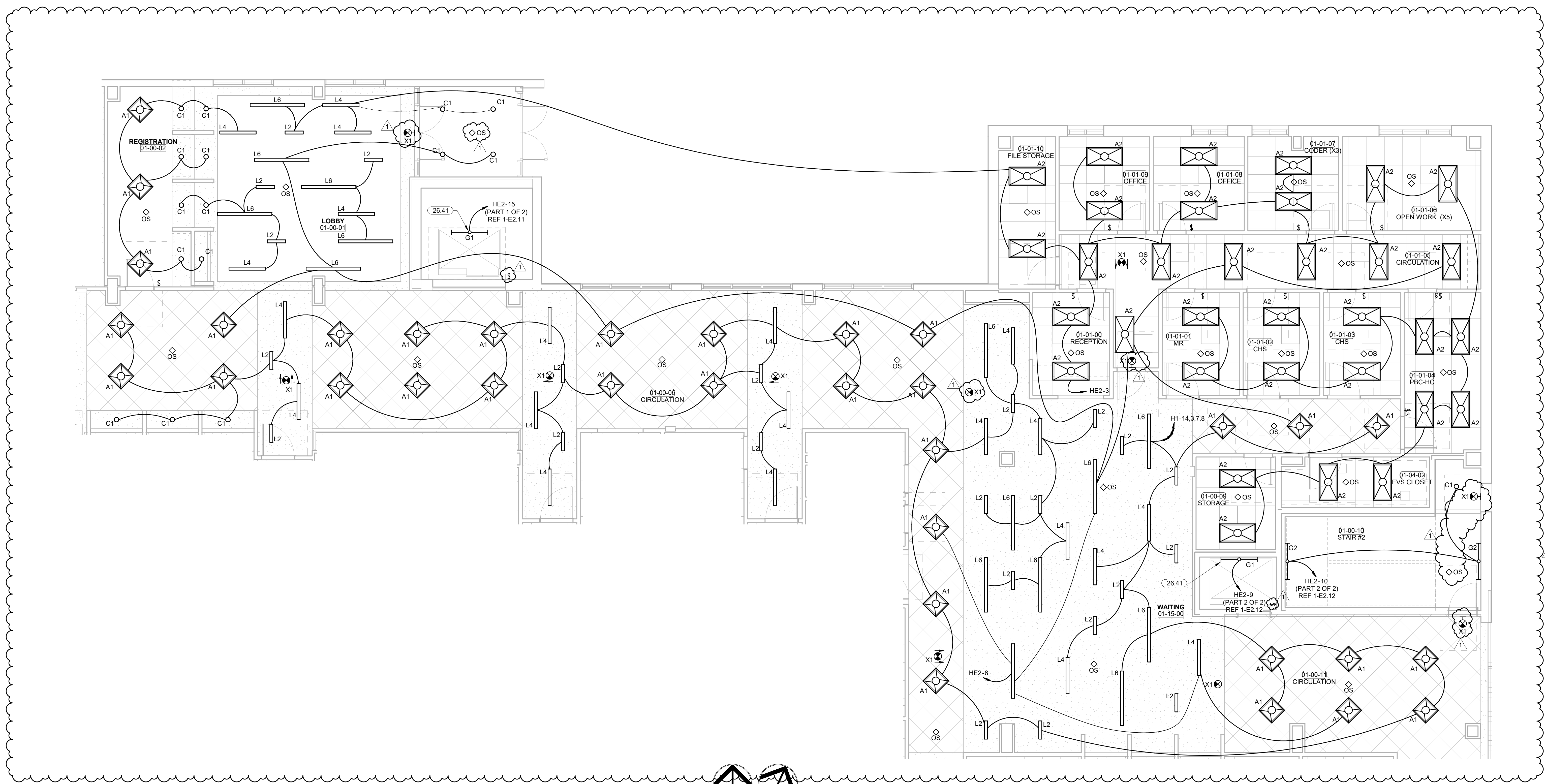
PROJECT PHASE
BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
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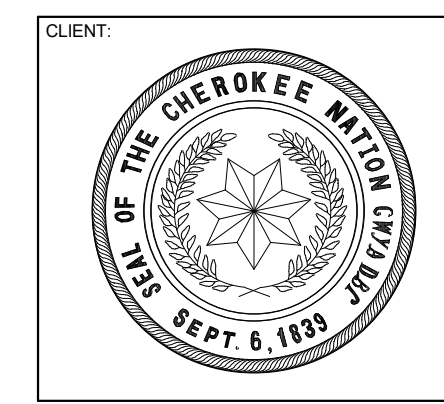
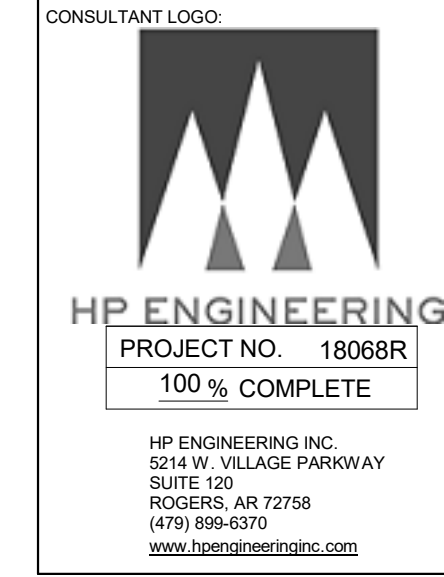
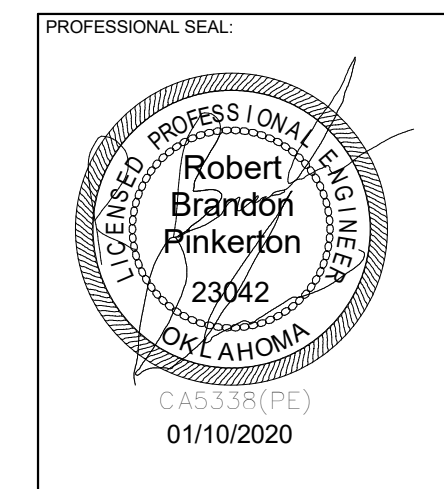
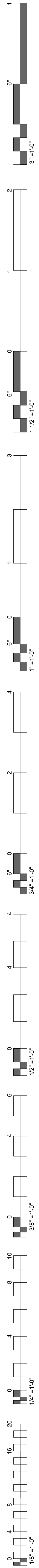
DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
E2.06

NORTH SECTOR 1 ENLARGED LIGHTING PLAN



PLAN NORTH
TRUE NORTH
1 NORTH SECTOR 1 ENLARGED LIGHTING
3/16" = 1'-0"



**WILMA P. MANKILLER HEALTH CENTER
EXPANSION**
STILWELL, OKLAHOMA

KEY PLAN

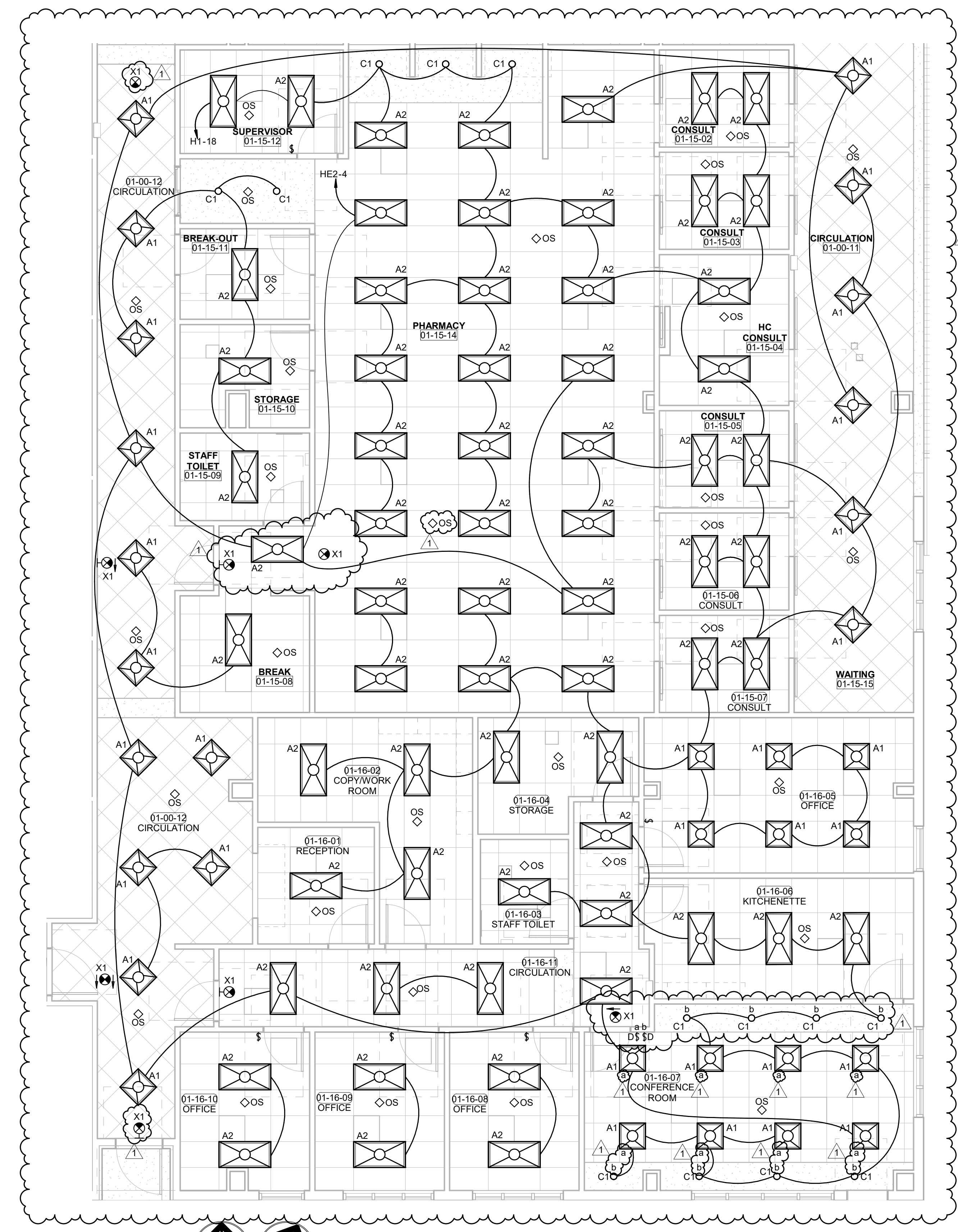
PROJECT PHASE
BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
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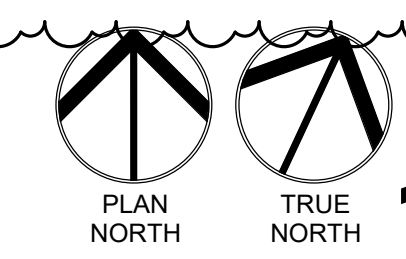
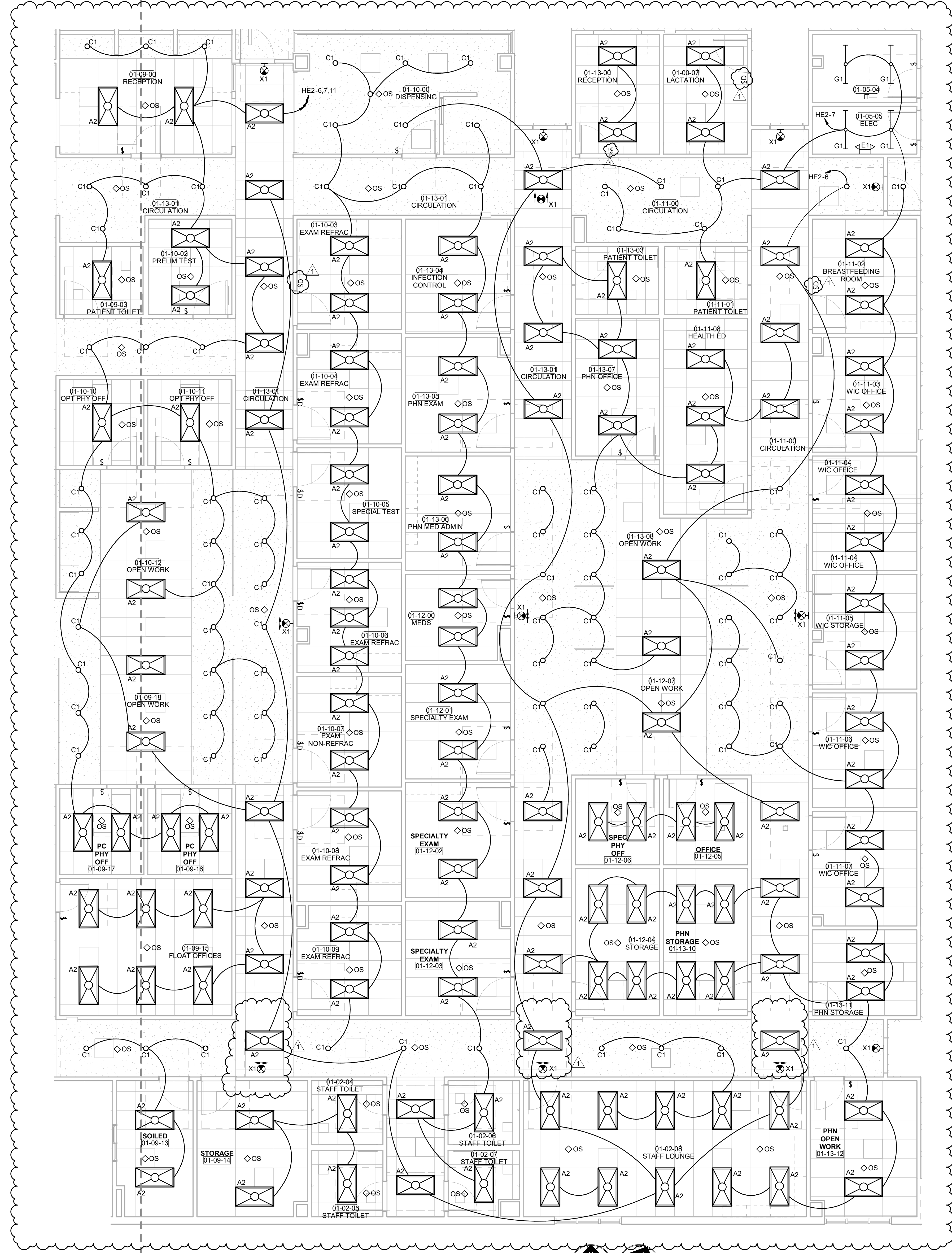
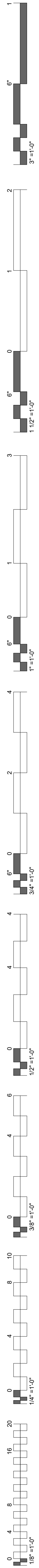
DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:

E2.07
CENTER
SECTOR 1
ENLARGED
LIGHTING PLAN



PLAN NORTH TRUE NORTH
1 SOUTH SECTOR 1 ENLARGED LIGHTING
3/16" = 1'-0"



1 CENTER SECTOR 1 ENLARGED LIGHTING
3/16" = 1'-0"

**WILMA P. MANKILLER HEALTH CENTER
EXPANSION**
STILWELL, OKLAHOMA

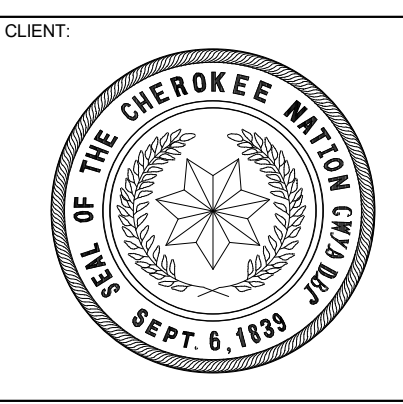
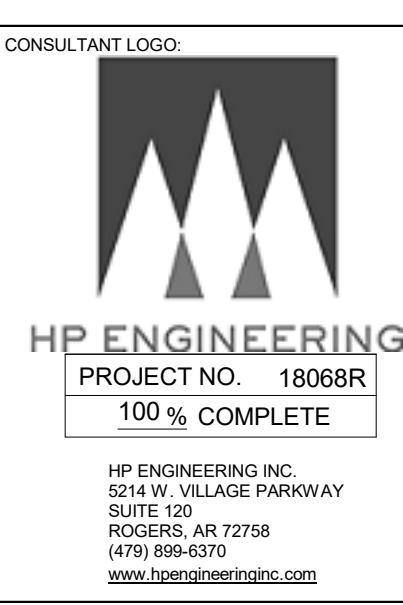
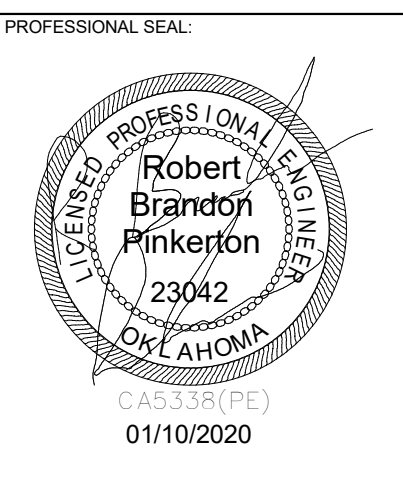
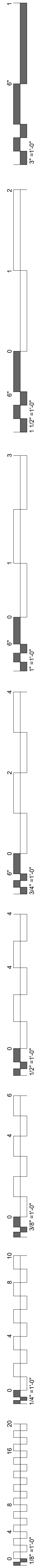
KEY PLAN

PROJECT PHASE

BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
1	11/19/20	BID PACKAGE 02 - ADD 01	

DATE:	12-06-19	JOB NUMBER:	18-01.01
SHEET NUMBER:			



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EXPANSION**
STILWELL, OKLAHOMA

KEY PLAN:

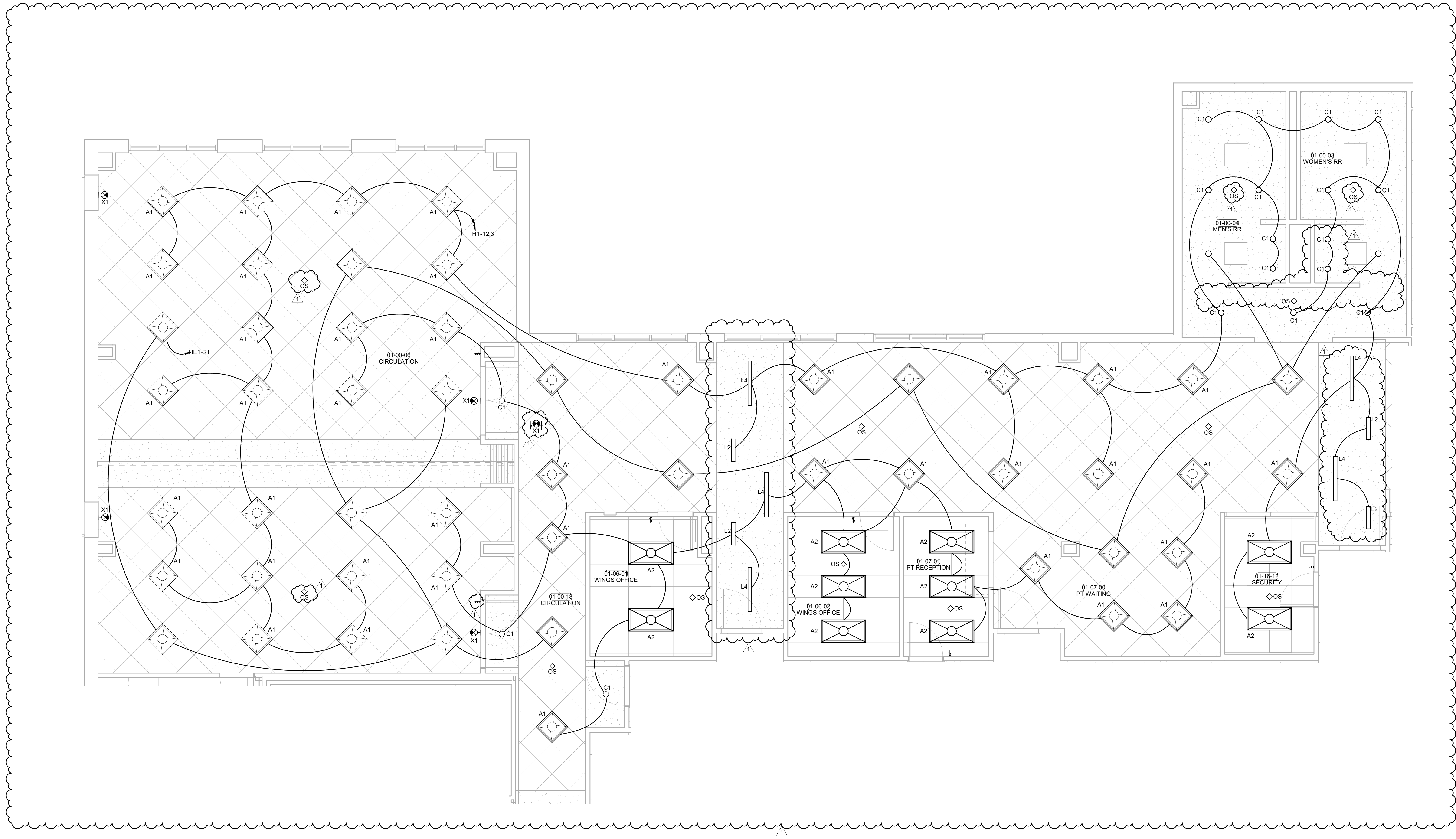
PROJECT PHASE:
BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
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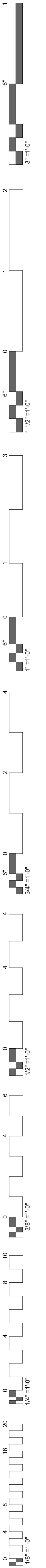
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SHEET NUMBER:
E2.09

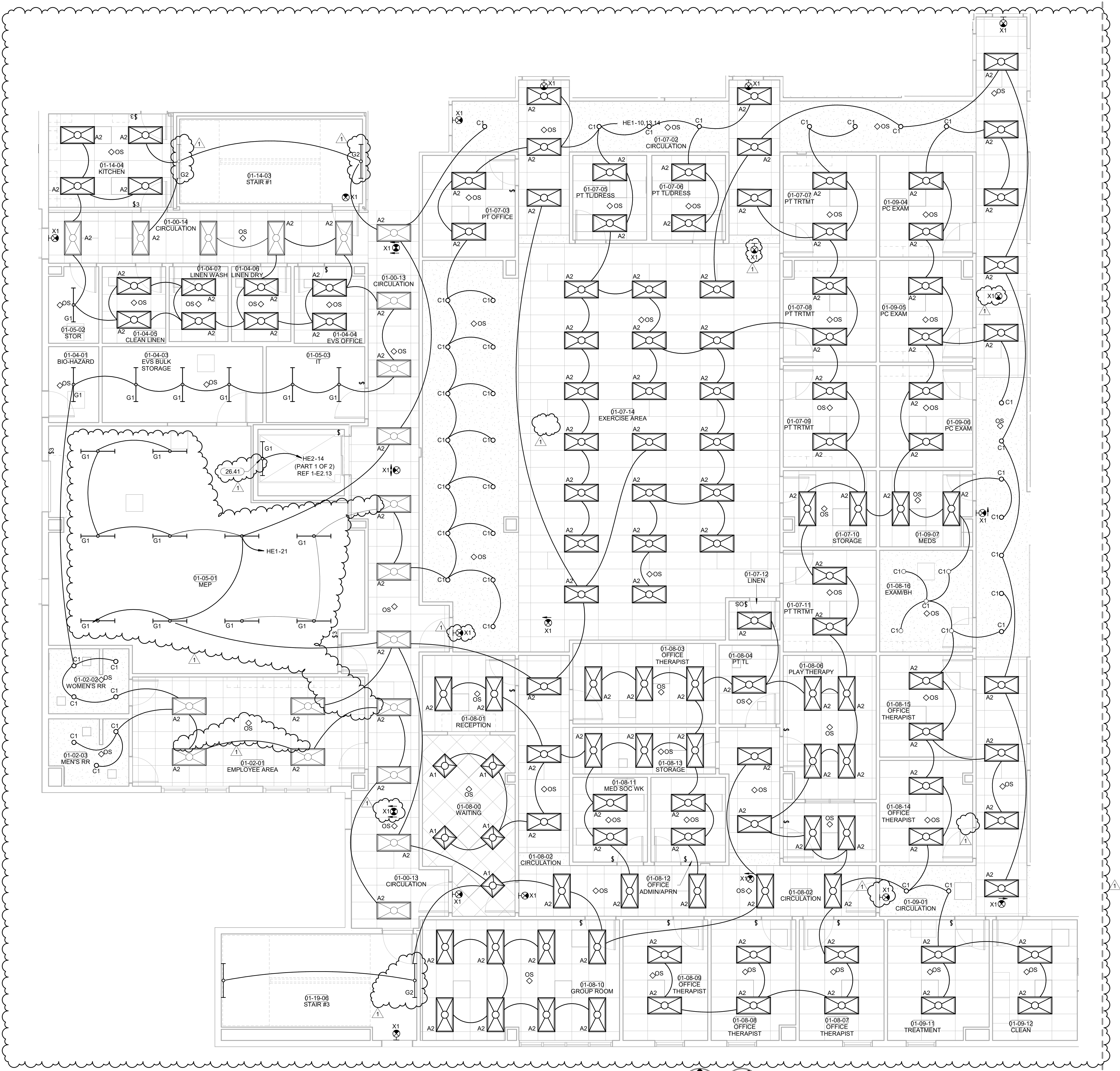
**NORTH SECTOR
2 ENLARGED
LIGHTING PLAN**



PLAN NORTH TRUE NORTH **1** NORTH SECTOR 2 ENLARGED LIGHTING
1/4" = 1'-0"



KEYNOTES
 26.41 COORDINATE ELEVATOR SERVICE LIGHT WITH ELEVATOR
 INSTALLER SO NOT TO INTERFERE WITH ELEVATOR
 CLEARANCES OR OPERATION.



PLAN NORTH
 TRUE NORTH
1 CENTER SECTOR 2 ENLARGED LIGHTING
 3/16" = 1'-0"

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 01/10/2020

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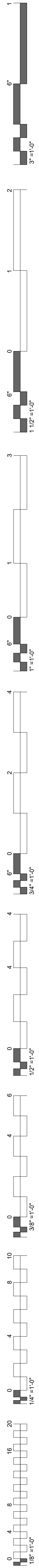
KEY PLAN

PROJECT PHASE
 BID PACKAGE 02

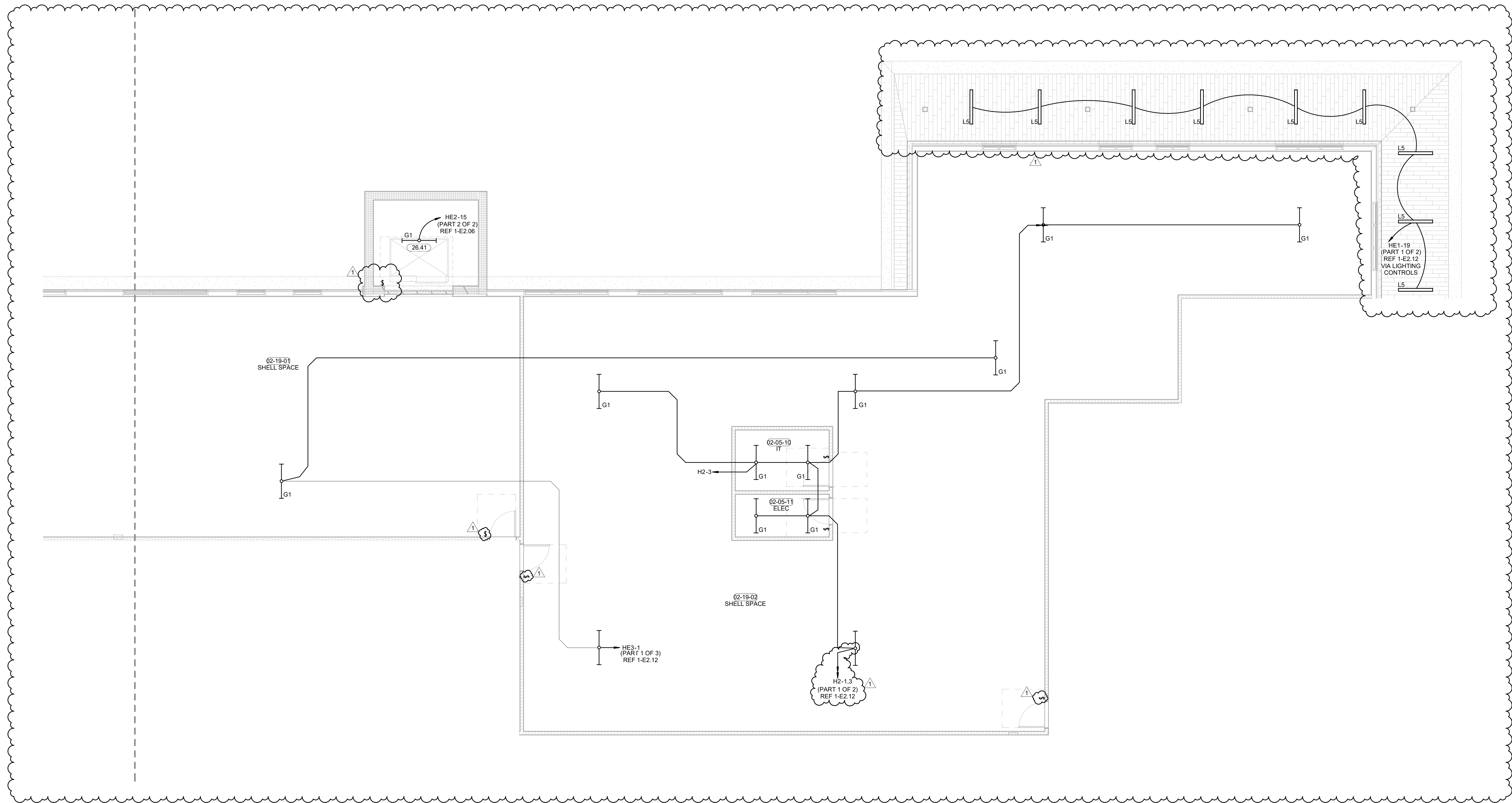
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DATE: 12-06-19
 JOB NUMBER: 18-01.01
 SHEET NUMBER:

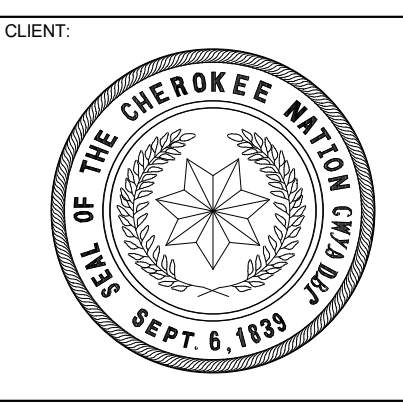
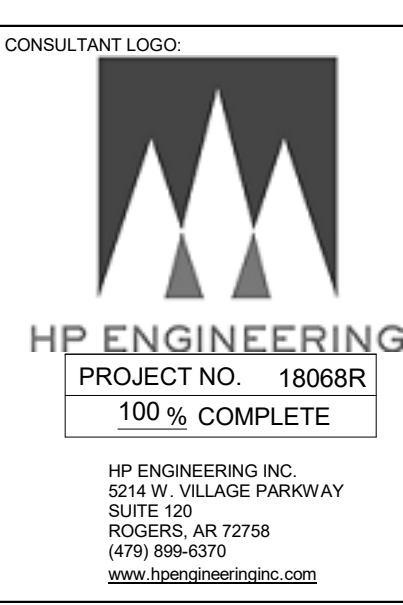
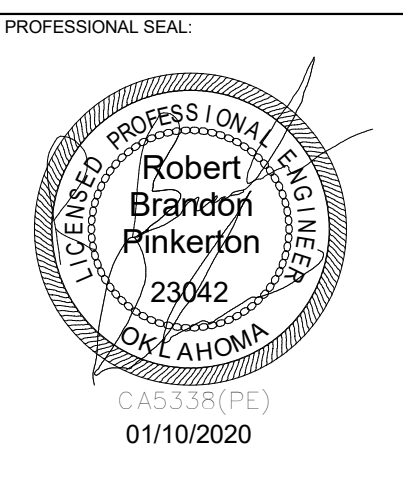
E2.10
 CENTER SECTOR 2 ENLARGED LIGHTING PLAN



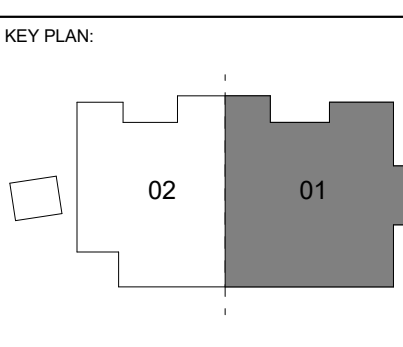
Key Value	Keynote Text
26.41	COORDINATE ELEVATOR SERVICE LIGHT WITH ELEVATOR INSTALLER SO NOT TO INTERFERE WITH ELEVATOR CLEARANCES OR OPERATION.



1 NORTH SECTOR 1 LEVEL 02 LIGHTING PLAN
 3/16" = 1'-0"



WILMA P. MANKILLER HEALTH CENTER
EXPANSION
 STILLWELL, OKLAHOMA

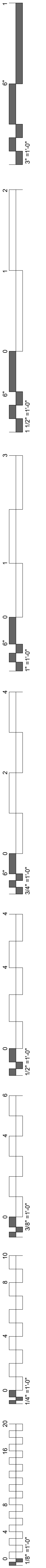


PROJECT PHASE:
 BID PACKAGE 02

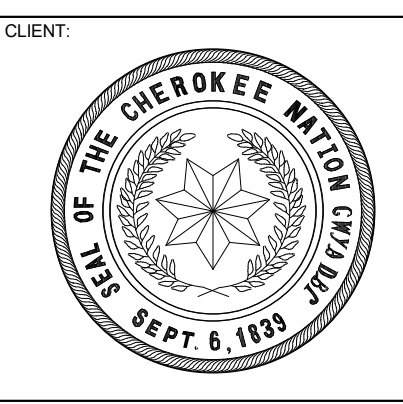
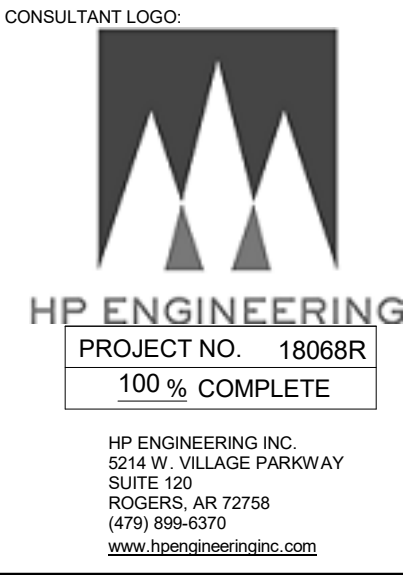
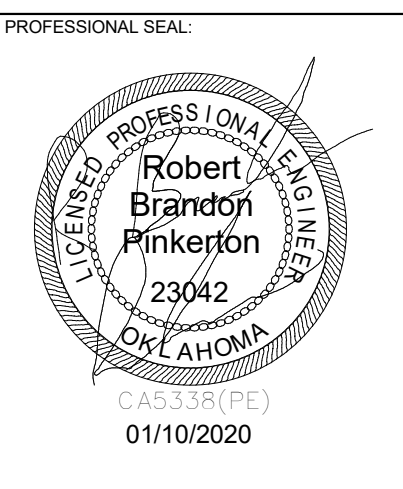
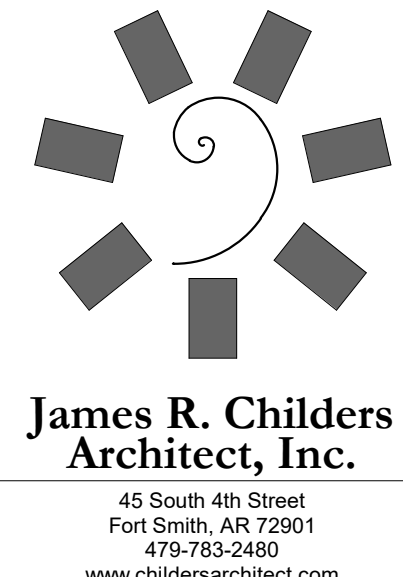
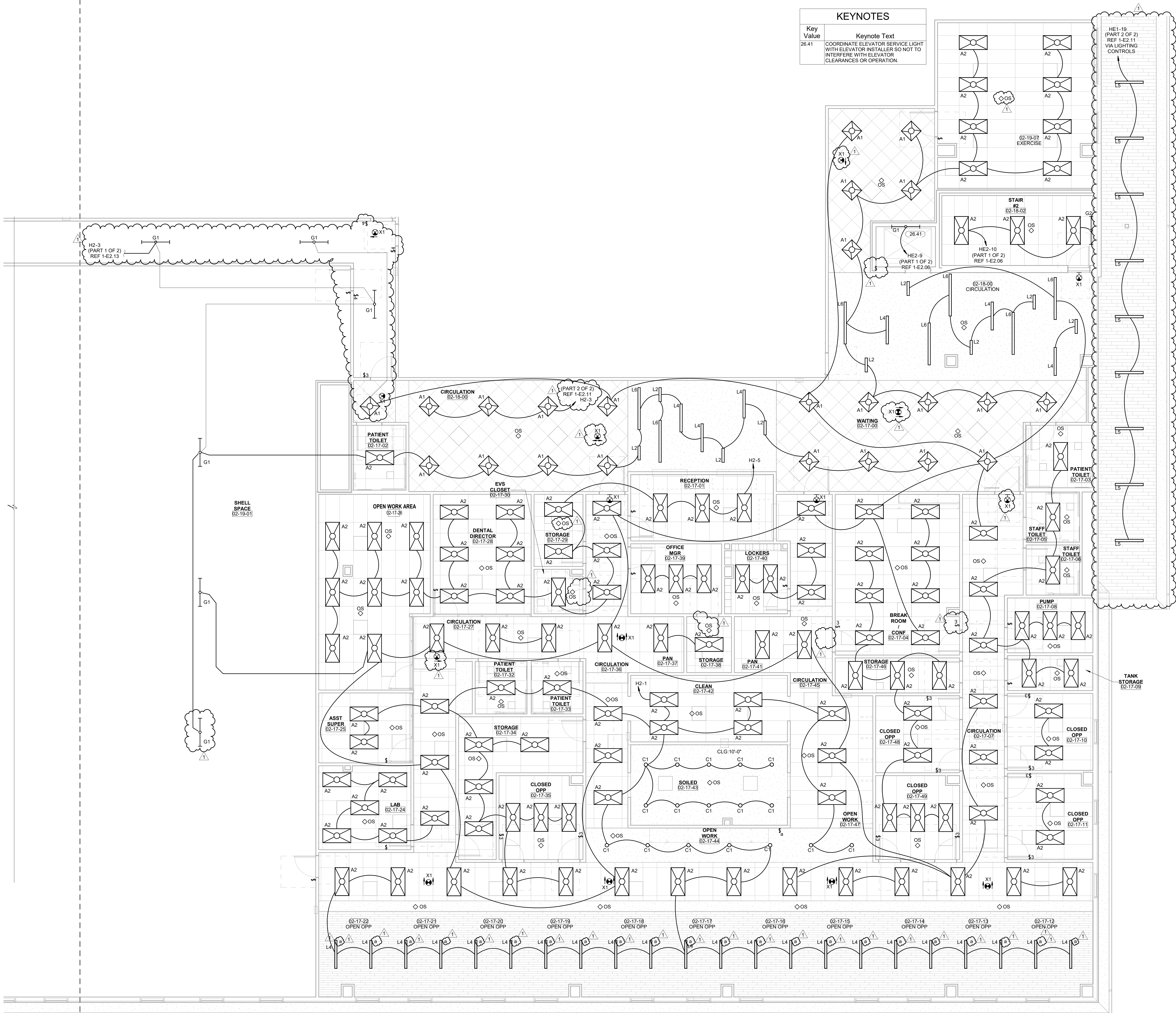
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DATE: 12-06-19
 JOB NUMBER: 18-01.01

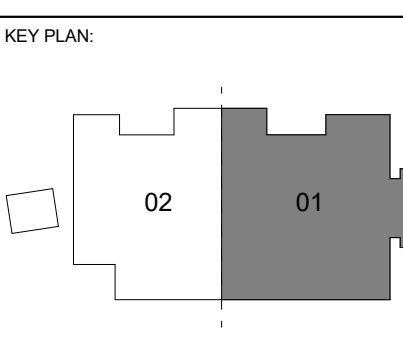
SHEET NUMBER:
E2.11
NORTH SECTOR 1 LEVEL 02 ENLARGED LIGHTING PLAN



KEYNOTES	
Key Value	Keynote Text
26.41	COORDINATE ELEVATOR SERVICE LIGHT WITH ELEVATOR INSTALLER SO NOT TO INTERFERE WITH ELEVATOR CLEARANCES OR OPERATION.



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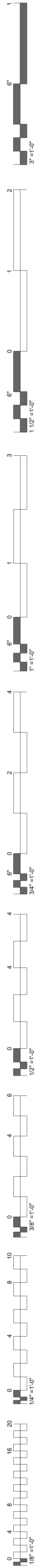
PROJECT PHASE
BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
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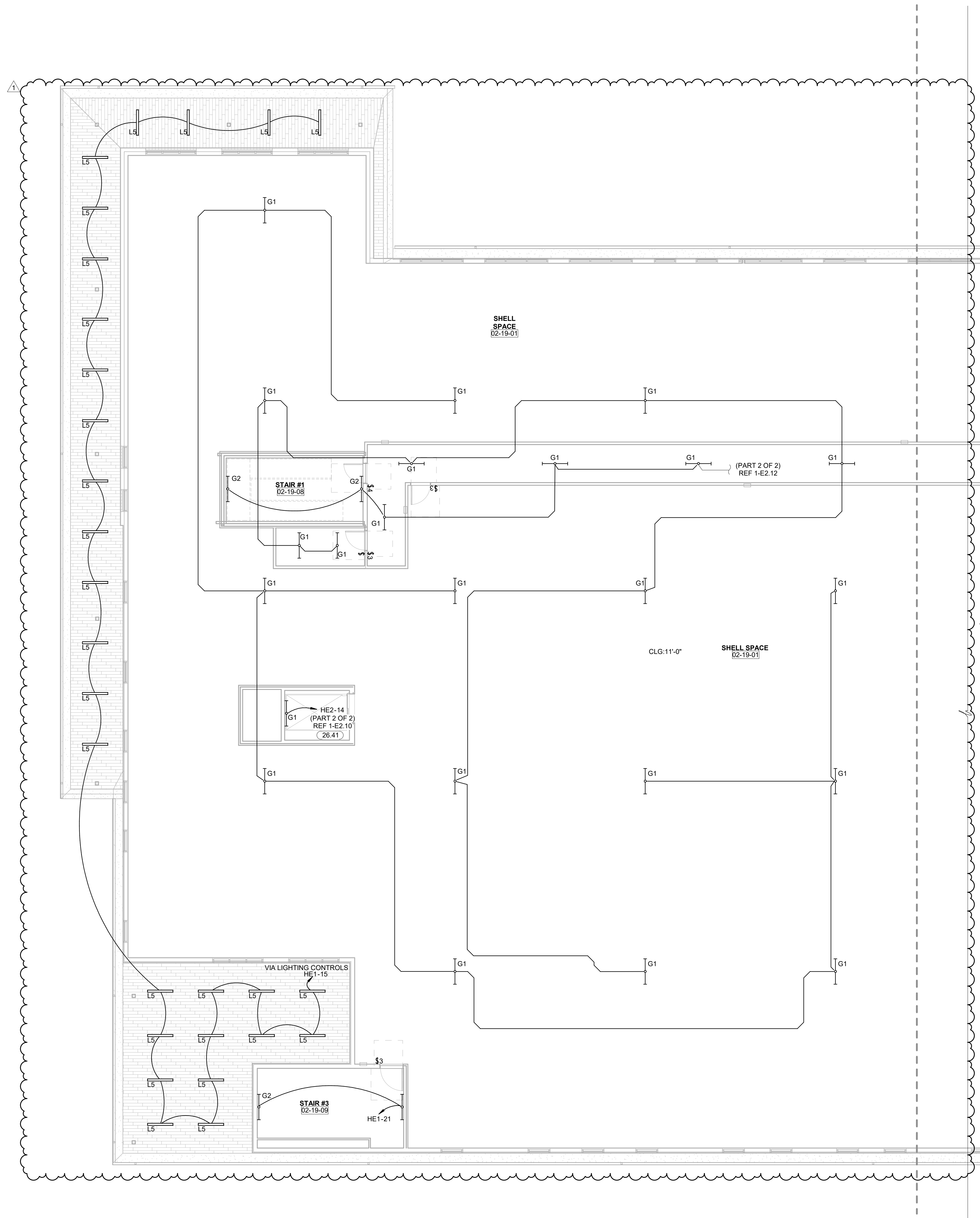
DATE: 12-06-19
JOB NUMBER: 18-01.01

SHEET NUMBER:
E2.12
SOUTH SECTOR
1 LEVEL 02
ENLARGED
LIGHTING PLAN





KEYNOTES	
Key Value	Keynote Text
26.41	COORDINATE ELEVATOR SERVICE LIGHT WITH ELEVATOR INSTALLER SO NOT TO INTERFERE WITH ELEVATOR CLEARANCES OR OPERATION.



1 LIGHTING PLAN LEVEL 02 SECTOR 02
 1/8" = 1'-0"

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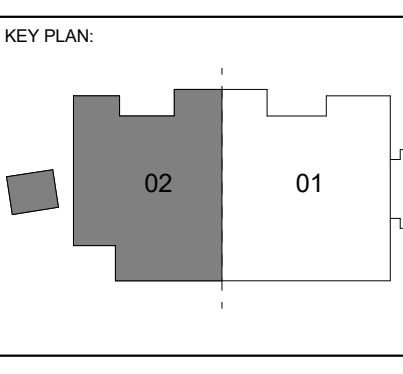
Robert Pinkerton
 23042
 OKLAHOMA
 01/10/2020

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 STILLWELL, OKLAHOMA



PROJECT PHASE

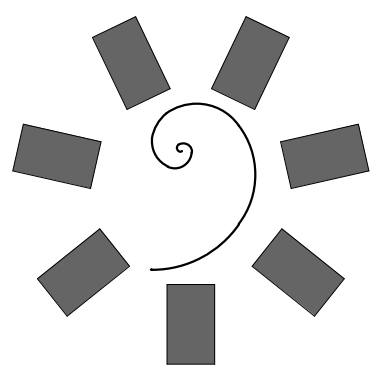
BID PACKAGE 02

#	DATE	REVISIONS DESCRIPTION
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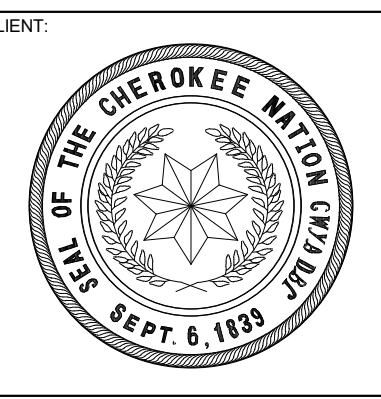
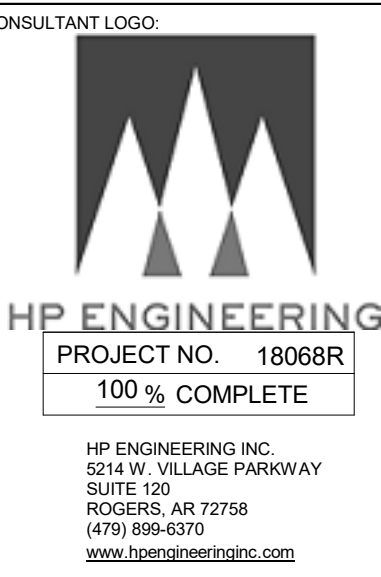
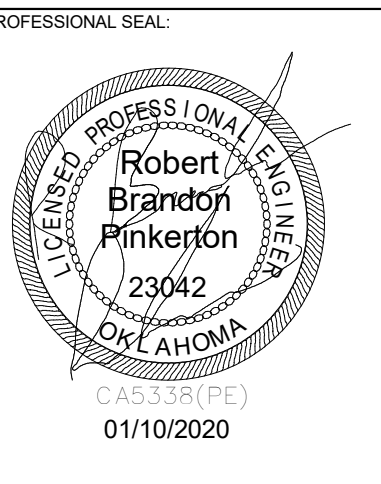
DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER: E2.13

LIGHTING PLAN
LEVEL 02
SECTOR 02



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STILWELL, OKLAHOMA

KEY PLAN

PROJECT PHASE
BID PACKAGE 02

#	DATE	REVISIONS	DESCRIPTION
1	1/19/20	BID PACKAGE 02 - ADD 91	

DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:

E3.01

ELECTRICAL SCHEDULES AND RISER

- ### ELECTRICAL SERVICE NOTES
- THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL SERVICE AND METERING REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO BID AND SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIALS AS REQUIRED BY THE SERVING UTILITY AS WELL AS COST INCURRED BY SERVING UTILITY.
 - THE ELECTRICAL CONTRACTOR SHALL VERIFY THE FAULT CURRENT AT THE SECONDARY OF THE TRANSFORMER WITH THE UTILITY COMPANY AND ADJUST THE ELECTRICAL PANEL AIC RATINGS TO THE NEXT HIGHER STANDARD RATING.
 - ALUMINUM SERVICE CONDUCTORS ARE NOT RECOMMENDED AND SHOULD ONLY BE USED WHERE ABSOLUTELY NECESSARY OR REQUIRED BY THE OWNER. CONTRACTOR TO CONTACT ENGINEER FOR SIZING. WHERE ALUMINUM CONDUCTORS ARE USED, THE OWNER SHALL PROVIDE ANNUAL MAINTENANCE OF ALL TERMINATIONS TO ENSURE SECURE CONNECTIONS. ALUMINUM WIRE WILL EXPAND AND CONTRACT AND OVER TIME MAY BECOME BRITTLE. THE OWNER SHALL ASSUME RESPONSIBILITY FOR USING ALUMINUM CONDUCTORS WITHOUT PROPER INSTALLATION, CARE, AND MAINTENANCE.
 - COORDINATE ALL SERVICE AND METERING DETAILS INCLUDING ANY RELOCATION OF EXISTING UTILITY LINES WITH POWER COMPANY.
 - CONTRACTOR TO CONFIRM EXACT LOCATION OF METERS WITH ELECTRIC UTILITY.
 - PAY ANY POWER COMPANY FEES CHARGED TO OWNER FOR SERVICE AND UTILITY LINE WORK ASSOCIATED WITH THIS PROJECT. THESE COSTS SHALL BE INCLUDED IN BIDS.
 - FURNISH AND INSTALL MATERIALS FOR A TEMPORARY CONSTRUCTION SERVICE AS REQUIRED.
 - FURNISH AND/OR INSTALL ALL REQUIRED MATERIAL AND LABOR IN COMPLIANCE WITH POWER COMPANY REQUIREMENTS TO PROVIDE A COMPLETE ELECTRICAL SERVICE, INCLUDING TRENCHING AND BACK FILLING, PRIMARY CONDUIT, CONCRETE TRANSFORMER PAD, SECONDARY CONDUITS AND CABLES, C.T. CABINET, METERING AND GROUNDING SYSTEM.

SWITCHGEAR LABEL
THE MAIN SWITCHBOARD SHALL HAVE A LABEL APPLIED TO WARN OF POTENTIAL SHOCK HAZARDS

EQUIPMENT LABELS
ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A LABEL APPLIED TO WARN OF POTENTIAL ARC FLASH HAZARDS

WARNING
SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED.

NOTES:
A. THE MAIN SWITCHBOARD SHALL HAVE A COMMERCIALY PRODUCED PERMANENT LABEL APPLIED, SIMILAR TO THE ABOVE, TO WARN OF POTENTIAL SHOCK HAZARDS, IN ACCORDANCE WITH NEC 702.7 AND NFPA 70E.
B. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

WARNING
ARC FLASH AND SHOCK HAZARD. APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED.

NOTES:
A. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALY PRODUCED PERMANENT LABEL APPLIED, SIMILAR TO THE ABOVE, TO WARN OF POTENTIAL ARC FLASH HAZARDS, IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E.
B. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

FAULT CURRENT

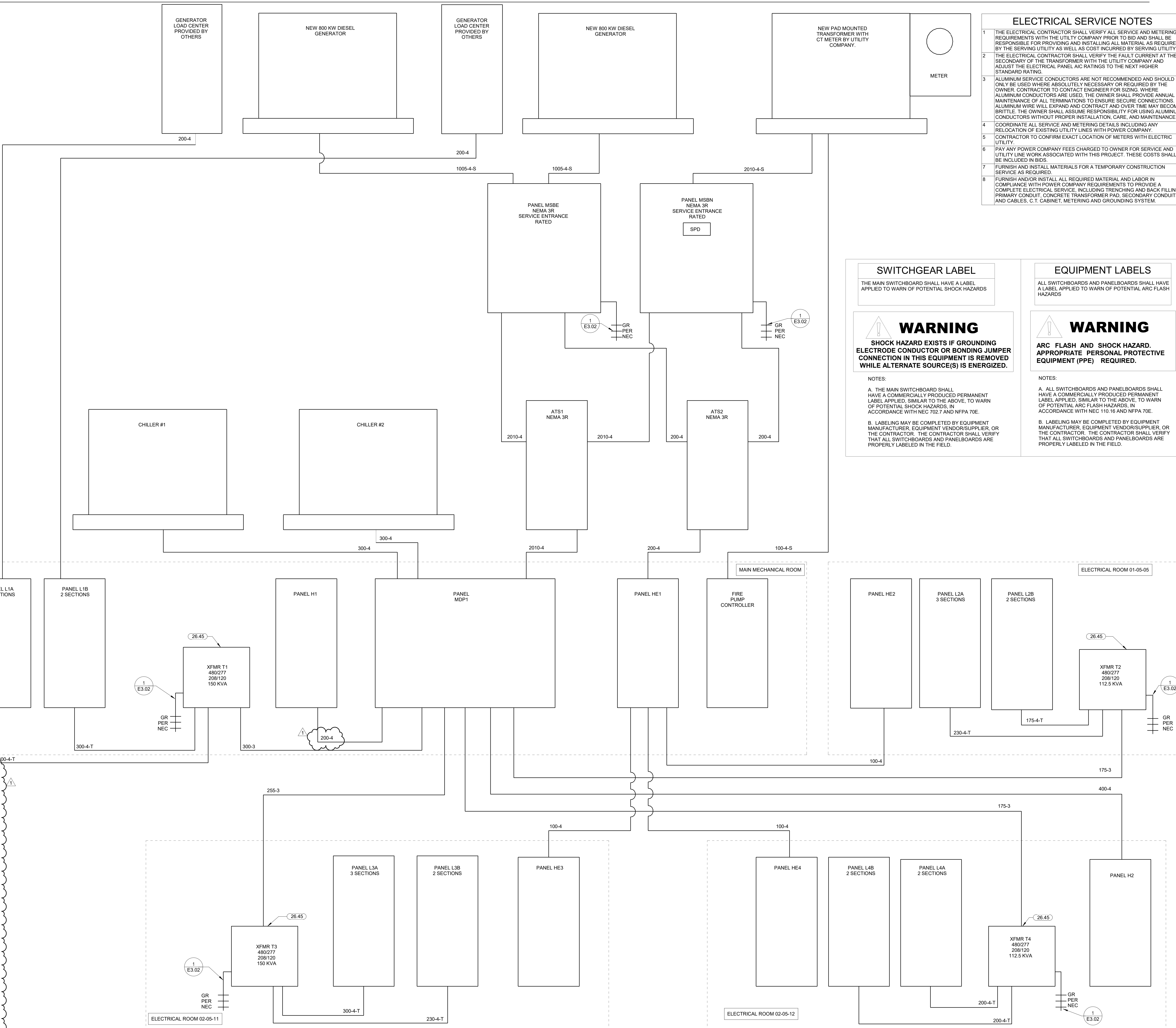
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MSBN	50055
MSBE	50055
ATS1	48551
ATS2	37797
MDP1	44784
H1	35780
H2	34068
T1	39429
T2	4990
T3	12977
T4	25572
L1A	10960
L1B	10960
F1A	2737
L2A	3259
L2B	3236
L3A	6453
L3B	6417
L4A	6828
L4B	6828
FIRE PUMP	50055
HE1	211921
HE2	4235
HE3	4103
HE4	11767
CHILLER 1	26440
CHILLER 2	26440
AHU-1	16444
AHU-2	5400
AHU-3	9117
AHU-4	4087

KEYNOTES

Key Value	Keynote Text
26.45	SUPPLY TRANSFORMER WITH A PERMANENT PLACARD INDICATING SUPPLY CIRCUIT AND LOCATION OF DISCONNECTING MEANS.

ELECTRICAL FEEDER KEYNOTES

65-4	1" C. 4#6, 1#10 GR
100-4	1 - 1 1/4" C. 4#5, 1#8 GR
100-4-S	1 - 1 1/4" C. 4#3
175-3	1 - 1 1/2" C. 3#2/0, 1#6 GR
175-4SC	2" CONDUIT
175-4-T	2" C. 4#2/0, 1#4 GR
200-4	2" C. 4#3/0, 1#6 GR
200-4C	2" CONDUIT
200-4-T	2" C. 4#3/0, 1#4 GR
230-4C	1 - 2 1/2" CONDUIT
230-4-T	1 - 2 1/2" C. 4#4/0, 1#2 GR
255-3	2" C. 3-250KCMIL, 1#4 GR
300-3	2 - 1 1/2" C. 3#1/0, 1#4 GR EACH
300-4	2 - 2" C. 4#1/0, 1#4 GR EACH
300-4C	2 - 2" CONDUITS
300-4-T	2 - 2" C. 4#1/0, 1#2 GR EACH
400-4	2 - 2" C. 4#3/0, 1#3 GR EACH
400-4C	2 - 2" CONDUITS
620-4C	2 - 2 1/2" CONDUITS
1005-4C	3 - 4" CONDUIT
1005-4-S	3 - 3" C. 4-400KCMIL EACH
1240-4C	4 - 3" CONDUITS
2010-4	6 - 3" C. 4-400KCMIL, 1-250KCMIL EACH
2010-4-S	6 - 3" C. 4-400KCMIL EACH
2010-4-SC	6 - 3" CONDUITS



Branch Panel: L1A

NEW

Location: MEP 01-05-01
Supply From: T1
Mounting: SURFACE
Enclosure: NEMA 1

Table with columns: CKT, Load Name, CB, P, Wire, A, B, C, Wire, P, CB, Load Name, CKT. Includes various equipment like outdoor service receptacles, kitchen equipment, and medical equipment.

Summary table for Branch Panel L1A showing Load Classification, Connected Load, Demand Factor, Estimated Demand, and Panel Totals.

Branch Panel: L2A

NEW

Location: ELEC 01-05-05
Supply From: T-2
Mounting: SURFACE
Enclosure: NEMA 1

Table with columns: CKT, Load Name, CB, P, Wire, A, B, C, Wire, P, CB, Load Name, CKT. Includes dispensing receptacles, kitchen equipment, and medical equipment.

Summary table for Branch Panel L2A showing Load Classification, Connected Load, Demand Factor, Estimated Demand, and Panel Totals.

Branch Panel: L3A

NEW

Location: ELEC 02-05-11
Supply From: T-3
Mounting: SURFACE
Enclosure: NEMA 1

Table with columns: CKT, Load Name, CB, P, Wire, A, B, C, Wire, P, CB, Load Name, CKT. Includes circulation receptacles, kitchen equipment, and medical equipment.

Summary table for Branch Panel L3A showing Load Classification, Connected Load, Demand Factor, Estimated Demand, and Panel Totals.

Branch Panel: L1B

NEW

Location: MEP 01-05-01
Supply From: T1
Mounting: SURFACE
Enclosure: NEMA 1

Table with columns: CKT, Load Name, CB, P, Wire, A, B, C, Wire, P, CB, Load Name, CKT. Includes outdoor service receptacles, kitchen equipment, and medical equipment.

Summary table for Branch Panel L1B showing Load Classification, Connected Load, Demand Factor, Estimated Demand, and Panel Totals.

Branch Panel: L2B

NEW

Location: ELEC 01-05-05
Supply From: T-2
Mounting: SURFACE
Enclosure: NEMA 1

Table with columns: CKT, Load Name, CB, P, Wire, A, B, C, Wire, P, CB, Load Name, CKT. Includes sector 2 service gfci's, kitchen equipment, and medical equipment.

Summary table for Branch Panel L2B showing Load Classification, Connected Load, Demand Factor, Estimated Demand, and Panel Totals.

Branch Panel: L3B

NEW

Location: ELEC 02-05-11
Supply From: T-3
Mounting: SURFACE
Enclosure: NEMA 1

Table with columns: CKT, Load Name, CB, P, Wire, A, B, C, Wire, P, CB, Load Name, CKT. Includes dental equipment, kitchen equipment, and medical equipment.

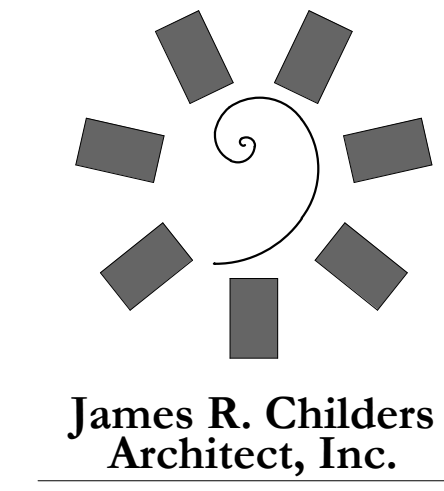
Summary table for Branch Panel L3B showing Load Classification, Connected Load, Demand Factor, Estimated Demand, and Panel Totals.

PANELBOARD NOTES (#)

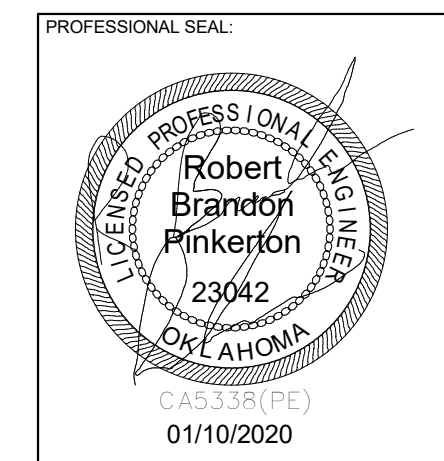
- 1. TERMINATE GROUND ON ISOLATED GROUND BUS.
2. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE).
3. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).
4. GFI BREAKER FOR PERSONNEL PROTECTION (5mA).
5. GFI BREAKER FOR EQUIPMENT PROTECTION (30mA).
6. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUND PROPORTIONALLY PER NEC. REFERENCE GROUND WIRE SIZING CHART.
7. REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.
8. REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
9. FACTORY WIRE TO LOAD.
10. CIRCUIT CONTROLLER. REFER TO LIGHTING CONTROLLER DETAIL.
11. ADD CIRCUIT BREAKER TO EXISTING PANEL.

EQUIPMENT GROUNDING CONDUCTOR SIZING CHART

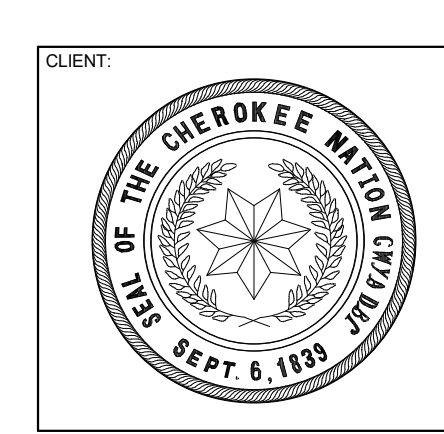
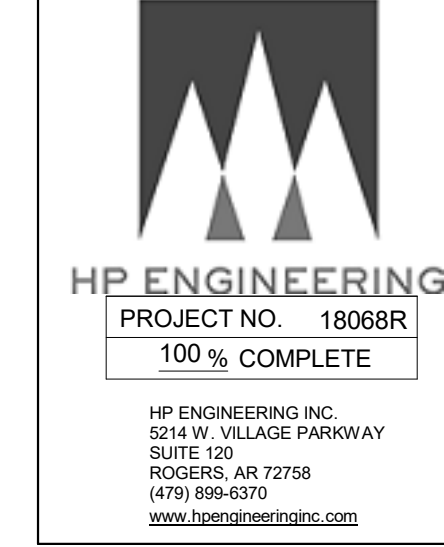
Table showing equipment grounding conductor sizing based on BRKR AMPS and WIRE SIZE. Columns include BRKR AMPS, PHASE, and WIRE SIZE (12, 10, 8, 6, 4, 3).



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STILWELL, OKLAHOMA

PROJECT PHASE: BID PACKAGE 02

REVISIONS: # DATE DESCRIPTION

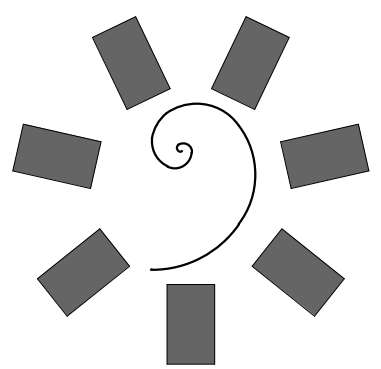
1 1/19/20 BID PACKAGE 02 - ADD 91

DATE: 12-06-19 JOB NUMBER: 18-01-01

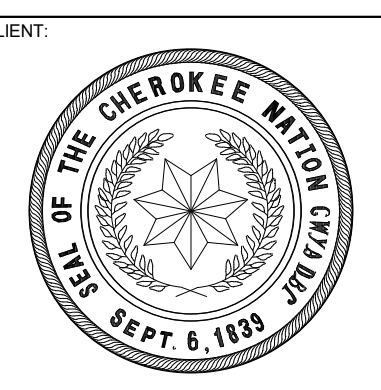
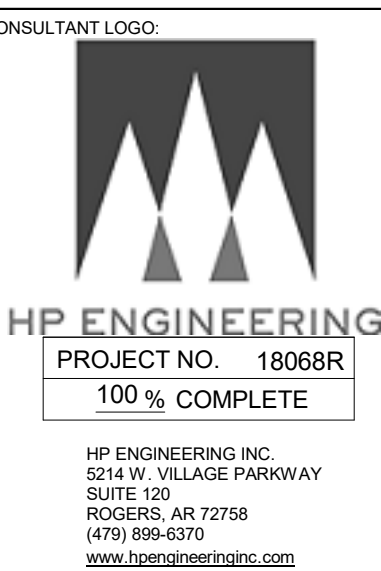
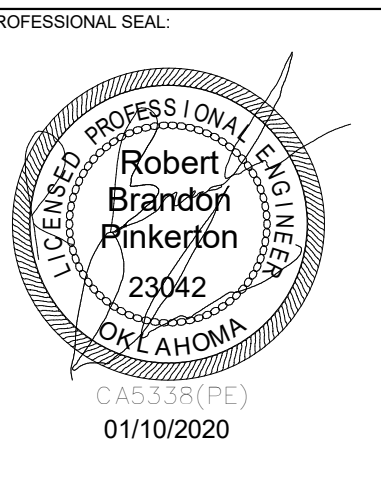
SHEET NUMBER:

E3.03

PANEL SCHEDULES



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KEY PLAN

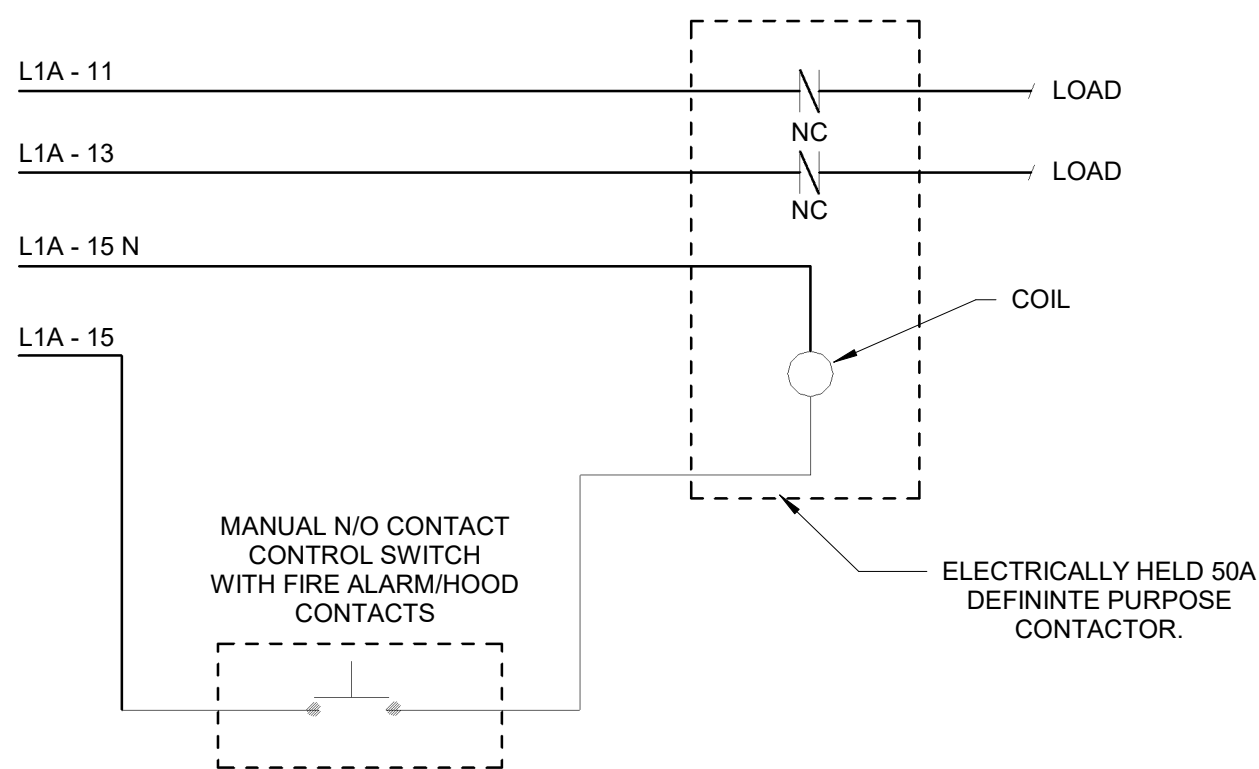
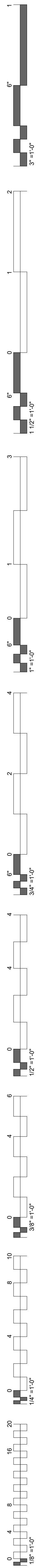
PROJECT PHASE
BID PACKAGE 02

#	DATE	REVISIONS DESCRIPTION

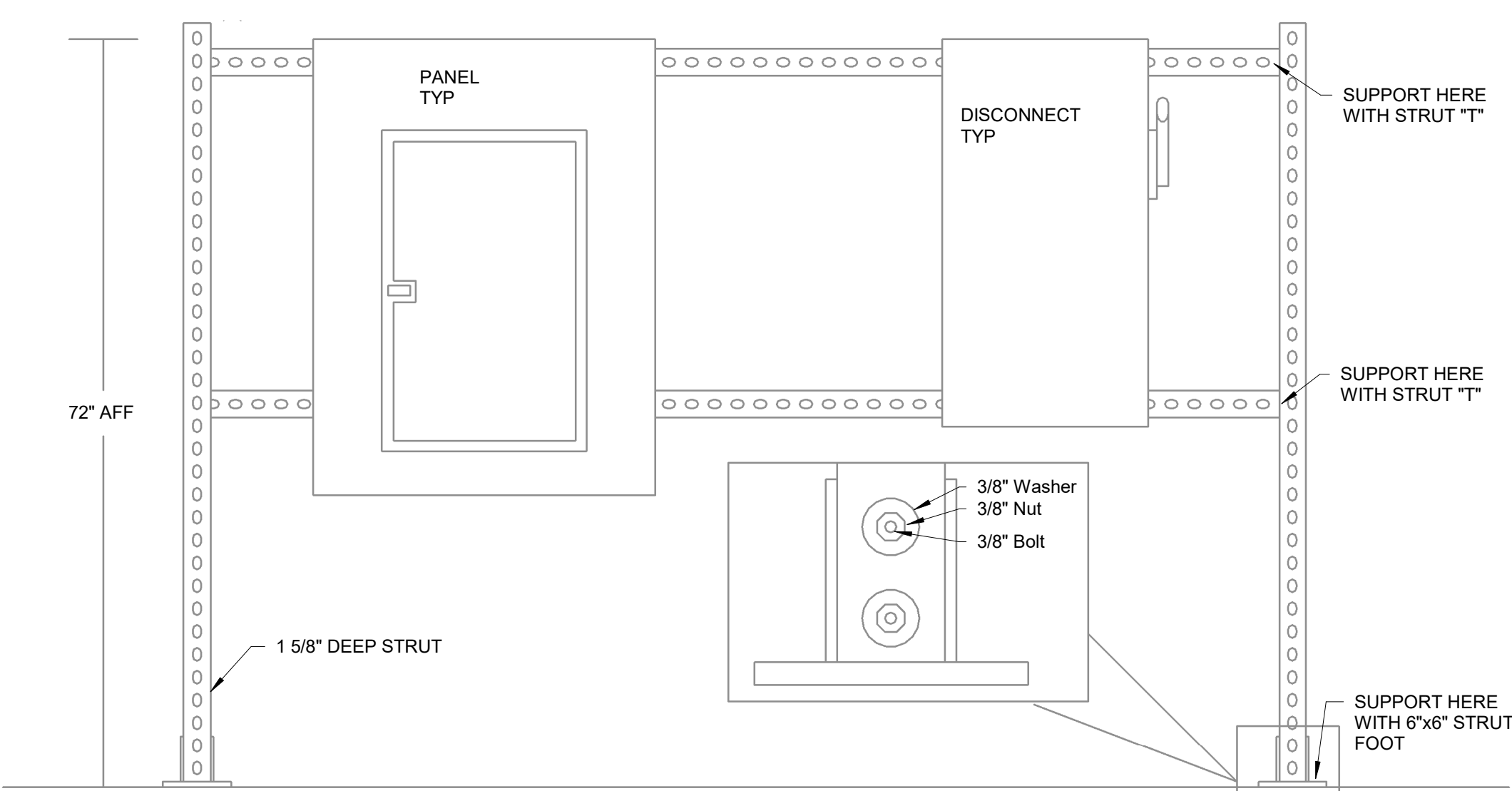
DATE: 12-06-19 JOB NUMBER: 18-01.01

SHEET NUMBER:
E3.05

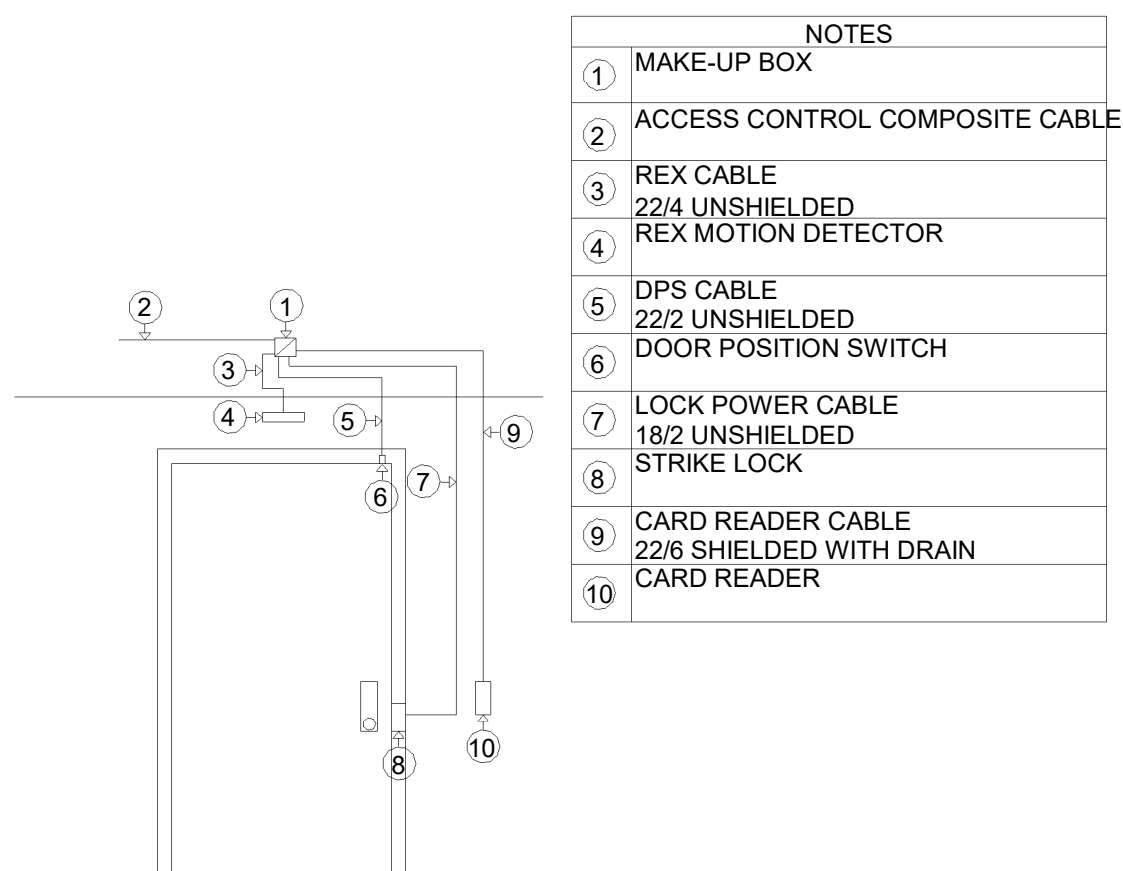
ELECTRICAL
DETAILS



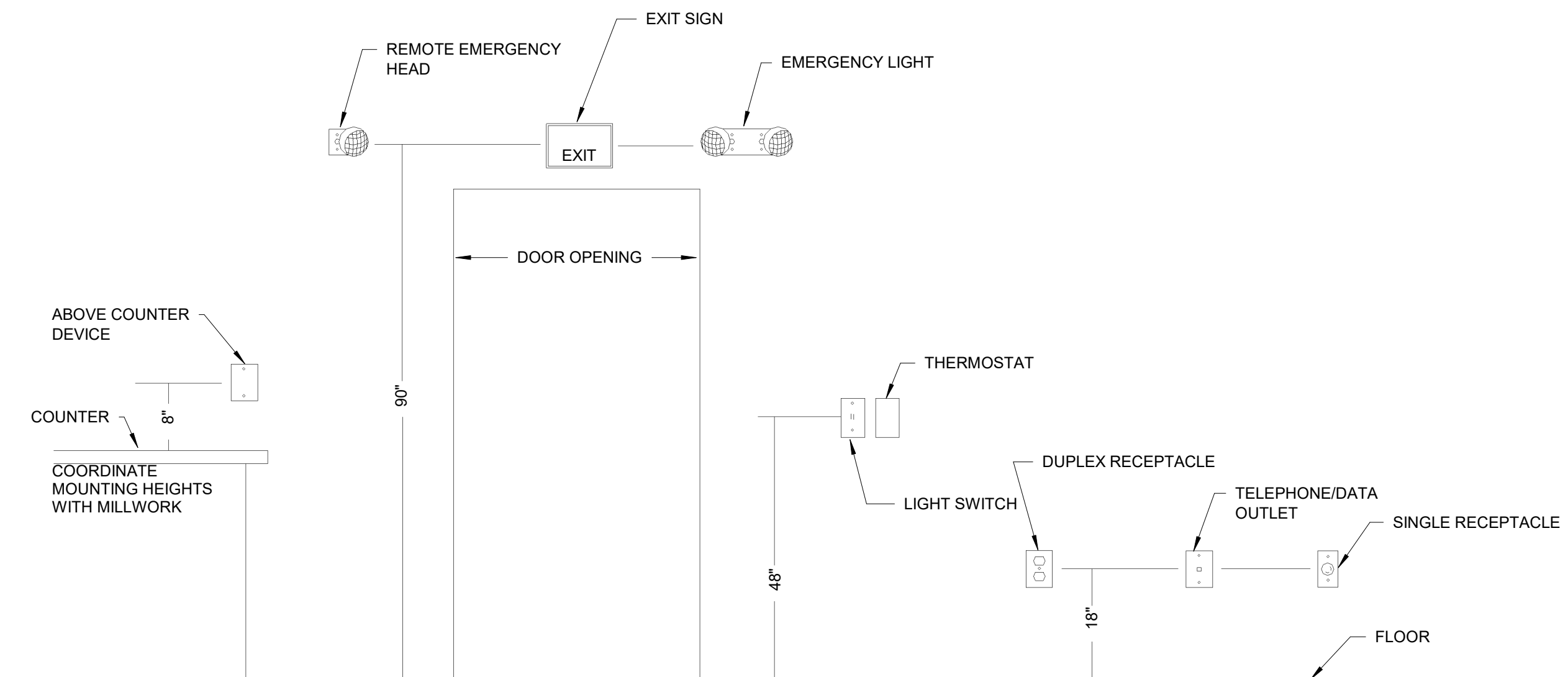
4 KITCHEN SHUNT CONTACTOR DETAIL
NTS



3 TYP STRUT INSTALLATION
1" = 1'-0"



2 DOOR TYPICAL- SINGLE DOOR WITH STRIKE LOCK
NTS



1 TYPICAL MOUNTING HEIGHT
12" = 1'-0"