



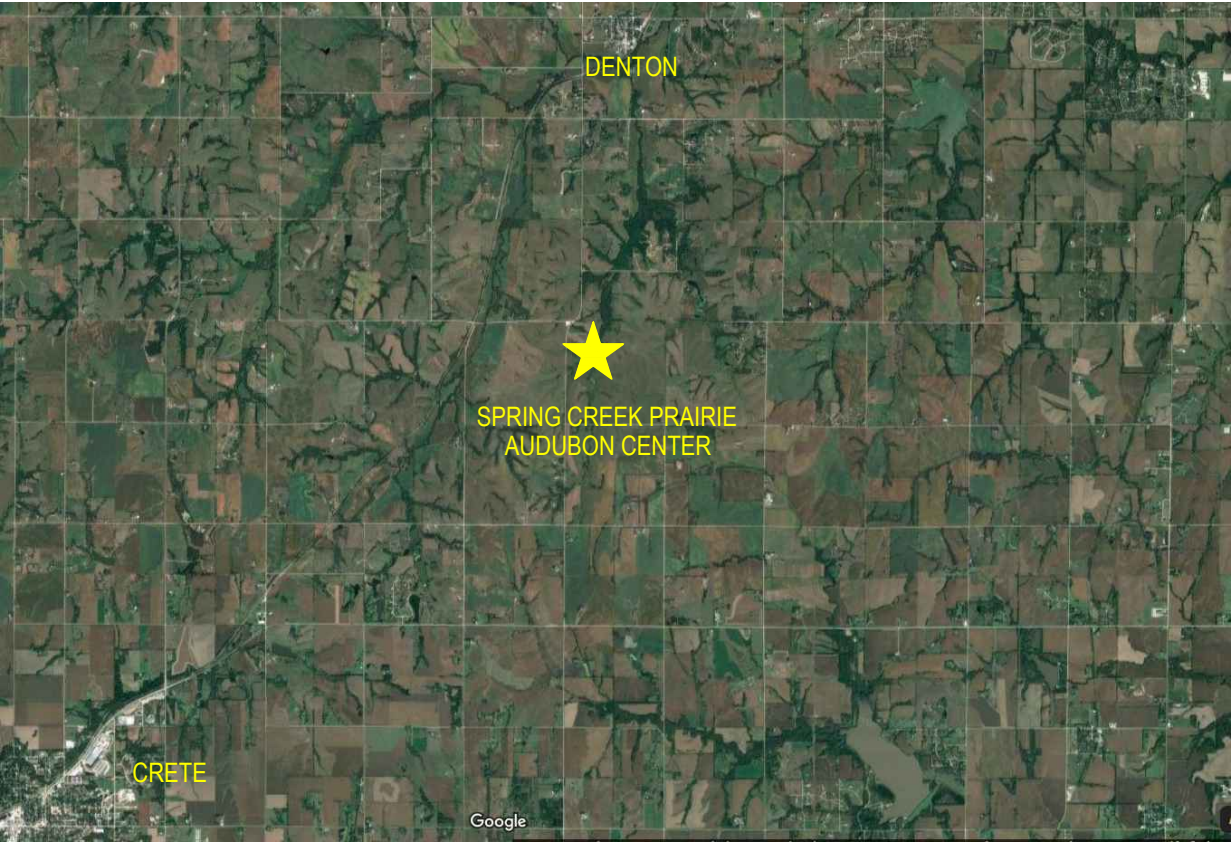
Agri-Services &  
Engineering, Inc.

SPRING CREEK PRAIRIE  
11700 SW 100 ST  
DENTON, NE 68339

Summary of Quantities\*

| Description                      | Unit | Quantity |
|----------------------------------|------|----------|
| Water Trench                     | LF   | 200      |
| Sewer Trench                     | LF   | 140      |
| Communications Trench            | LF   | 390      |
| Electrical Trench                | LF   | 390      |
| Aggregate - Surfacing            | TN   | 67.50    |
| Aggregate - Base Course          | TN   | 98       |
| Seeding                          | AC   | 0.10     |
| Exterior Reinforced Concrete Pad | SF   | 300      |
| Interior Concrete Floor          | SF   | 2196     |
| Thickened Interior Footing       | SF   | 162      |
| Building Foundation Perimeter    | LF   | 197      |
| Mezzanine Floor Space            | SF   | 580      |
| Fire Retardant Stud Wall         | LF   | 42       |
| Standard 2x4 Stud Wall           | LF   | 68       |
| Plumbing Wall                    | LF   | 12       |

\* This list is provided for guidance, but is not all-inclusive. Contractor is responsible to identify and procure all parts necessary to complete the Work as detailed in these drawings and specifications.



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| Seet Number | Sheet Title          | Sheet Number | Sheet Title              |
|-------------|----------------------|--------------|--------------------------|
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Date Printed: 11/4/21

Rev.

Date

Title Sheet

SPRING CREEK PRAIRIE

11700 SW 100 ST

DENTON, NE 68339

15460 NW 48th St.

Raymond, NE 68428

Office: (402) 783-2100

Fax: (402) 783-2104

Web Site: www.settje.com

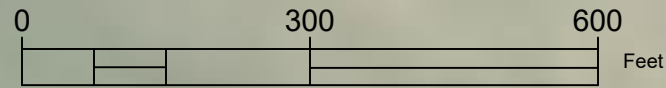


Agri-Services &  
Engineering, Inc.



C0.0





PROJECT CONTROL

VERTICAL DATUM: NAVD 88

COORDINATE SYSTEM: NE83F -  
NEBRASKA STATE PLANE - US FT

BENCHMARK 1  
N 329456.310  
E 2511728.812  
Z 1370.168  
5/8" REBAR W/CAP

BENCHMARK 2  
N 329924.926  
E 2512370.322  
Z 1373.742  
5/8" REBAR W/CAP

SW 100TH STREET

CONSTRUCTION  
ACCESS

PARKING  
LOT

PAD-MOUNTED  
TRANSFORMER

VISITOR  
CENTER

EQUIPMENT  
SHED

POLE-MOUNTED  
FLOOD LIGHT

NEW BUILDING

CARETAKER  
RESIDENCE

POND

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Rev. Date

Survey Control

SPRING CREEK PRAIRIE

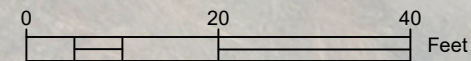
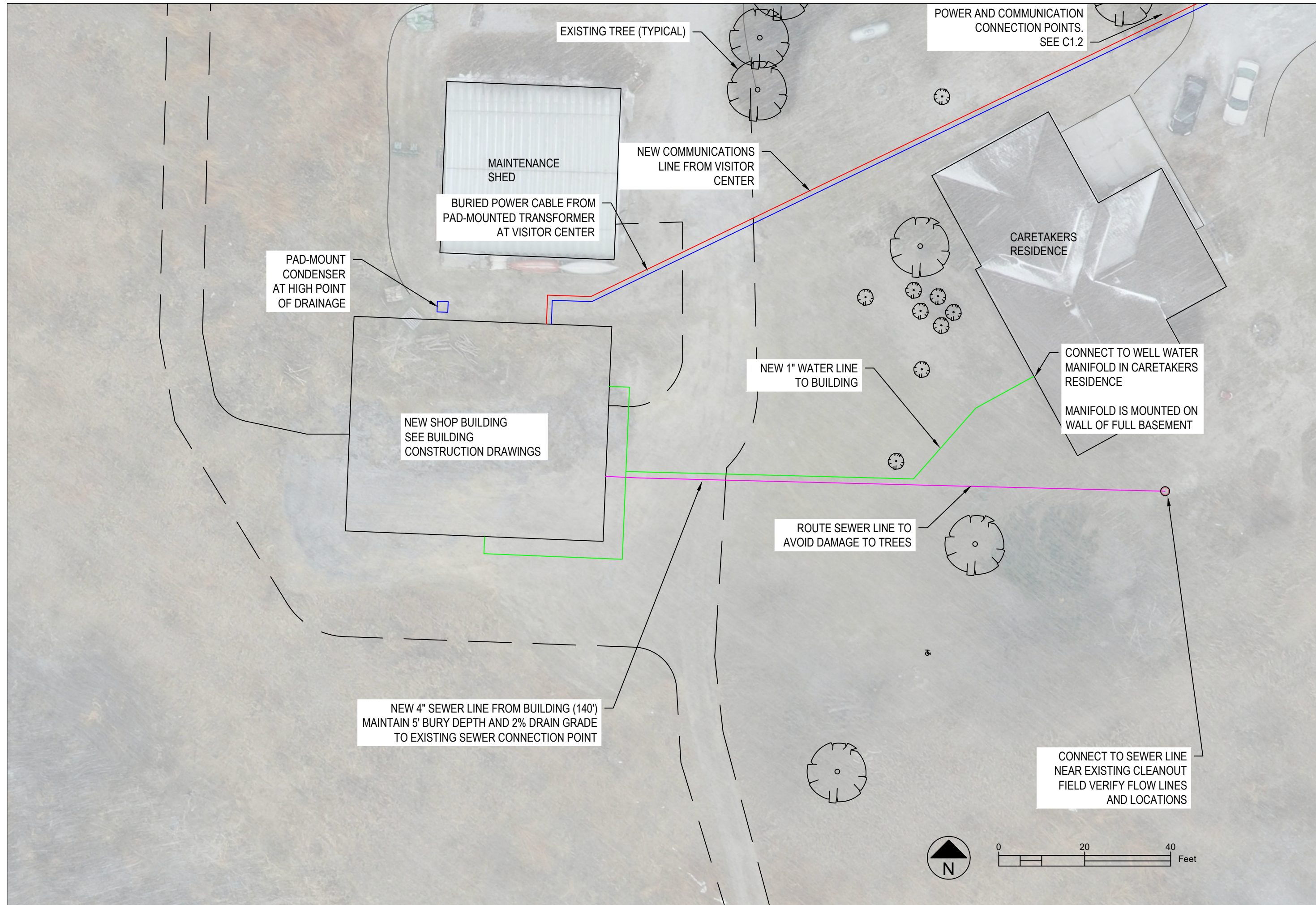
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C1.0





|                       |      |  |  |  |
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|                       | Rev. |  |  |  |

Site Plan West  
New Maintenance Building

**SPRING CREEK PRAIRIE**  
11700 SW 100 ST  
DENTON, NE 68339

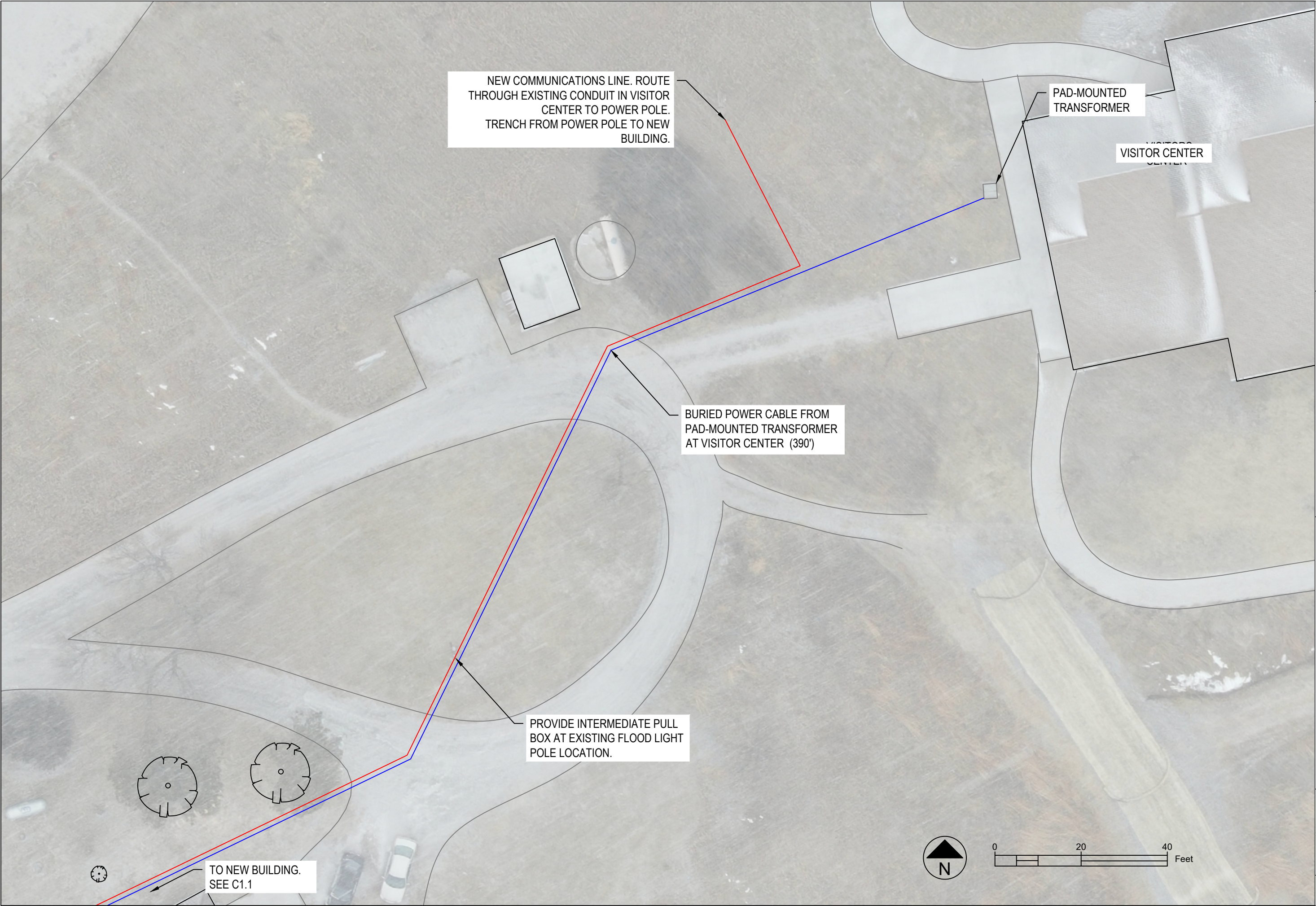
15460 NW 48th St.  
Raymond, NE 68428  
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**C1.1**





|                       |      |      |  |  |
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Site Plan East  
New Maintenance Building

**SPRING CREEK PRAIRIE**  
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DENTON, NE 68339

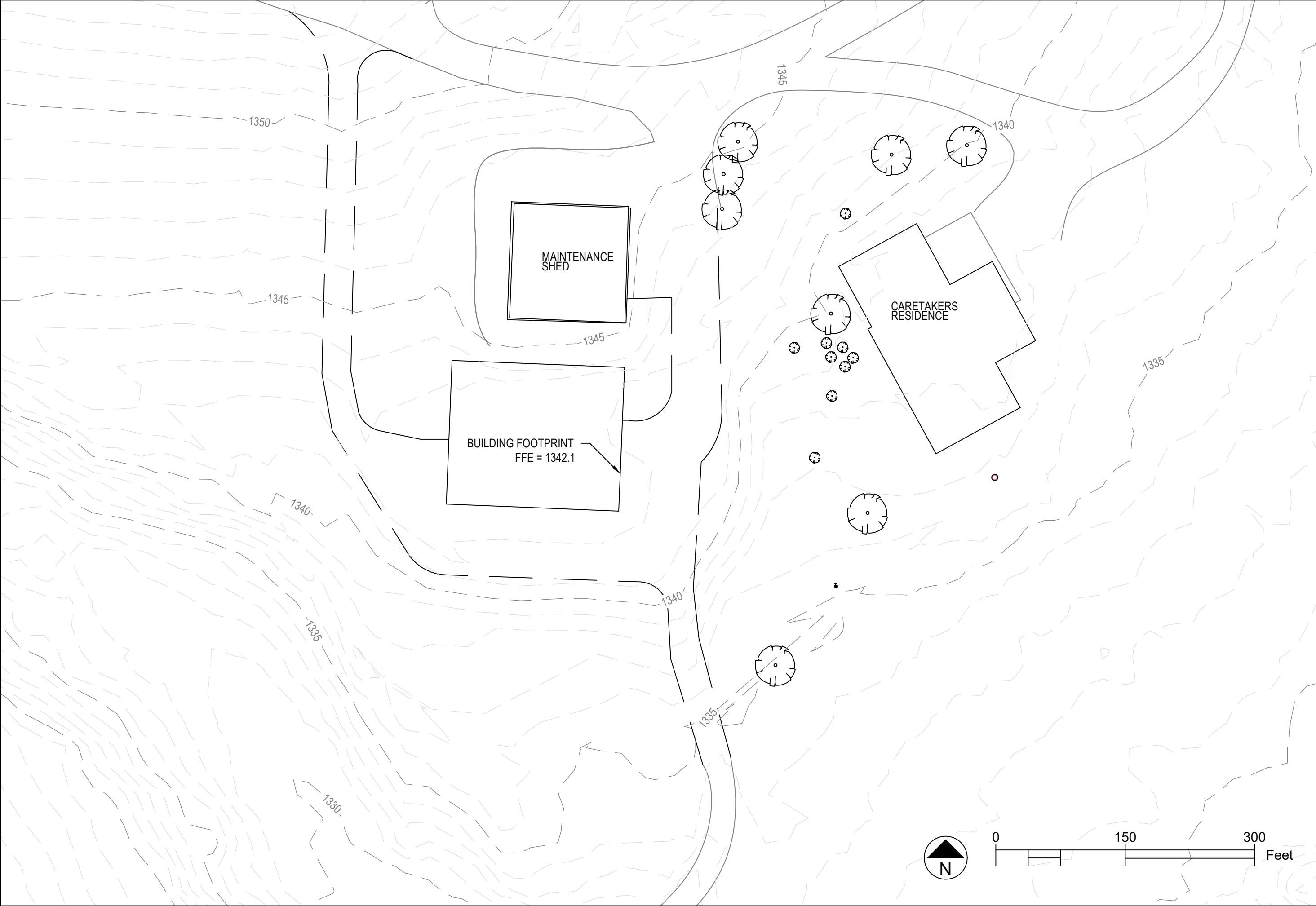
15460 NW 48th St.  
Raymond, NE 68428  
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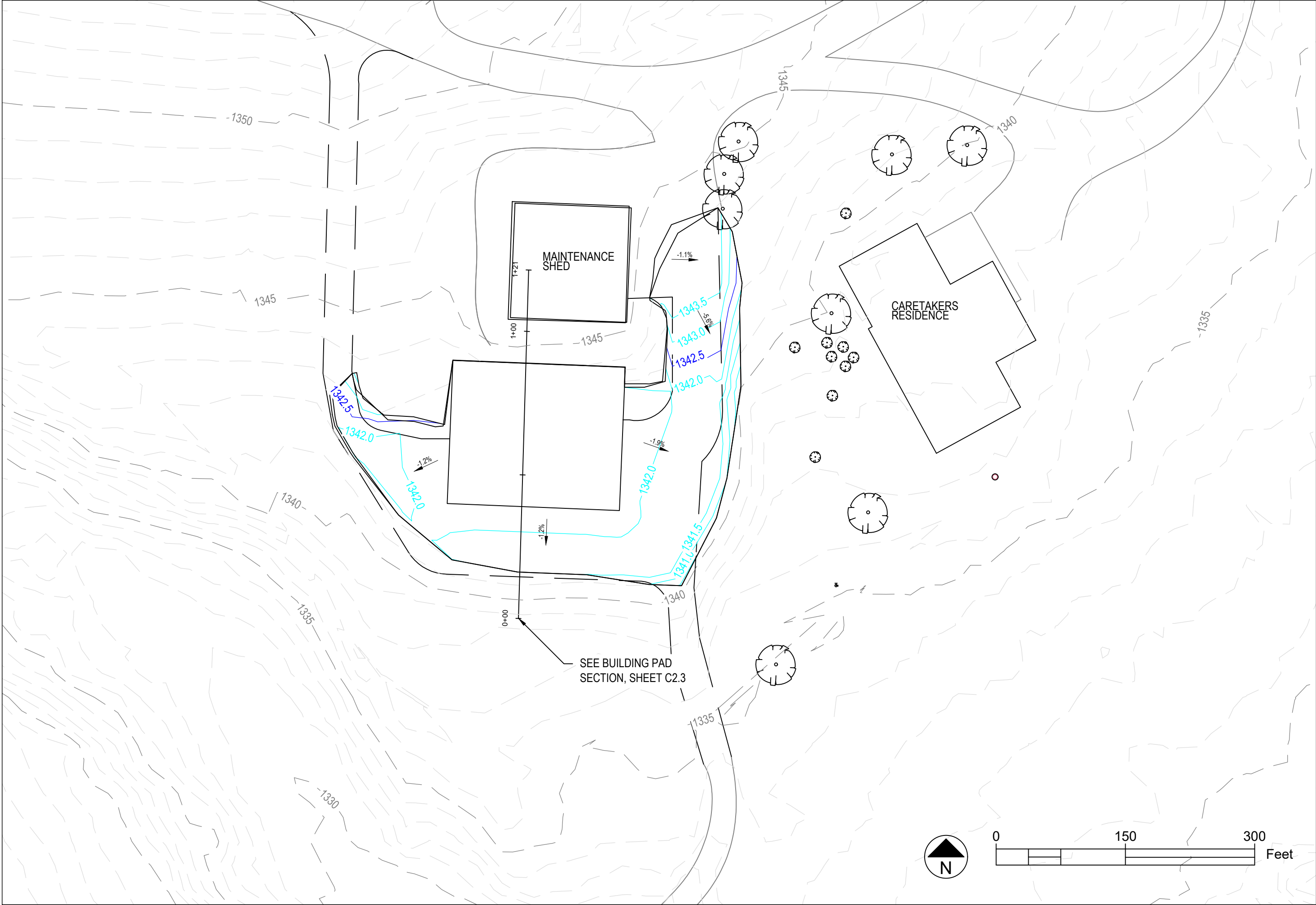
**C1.2**





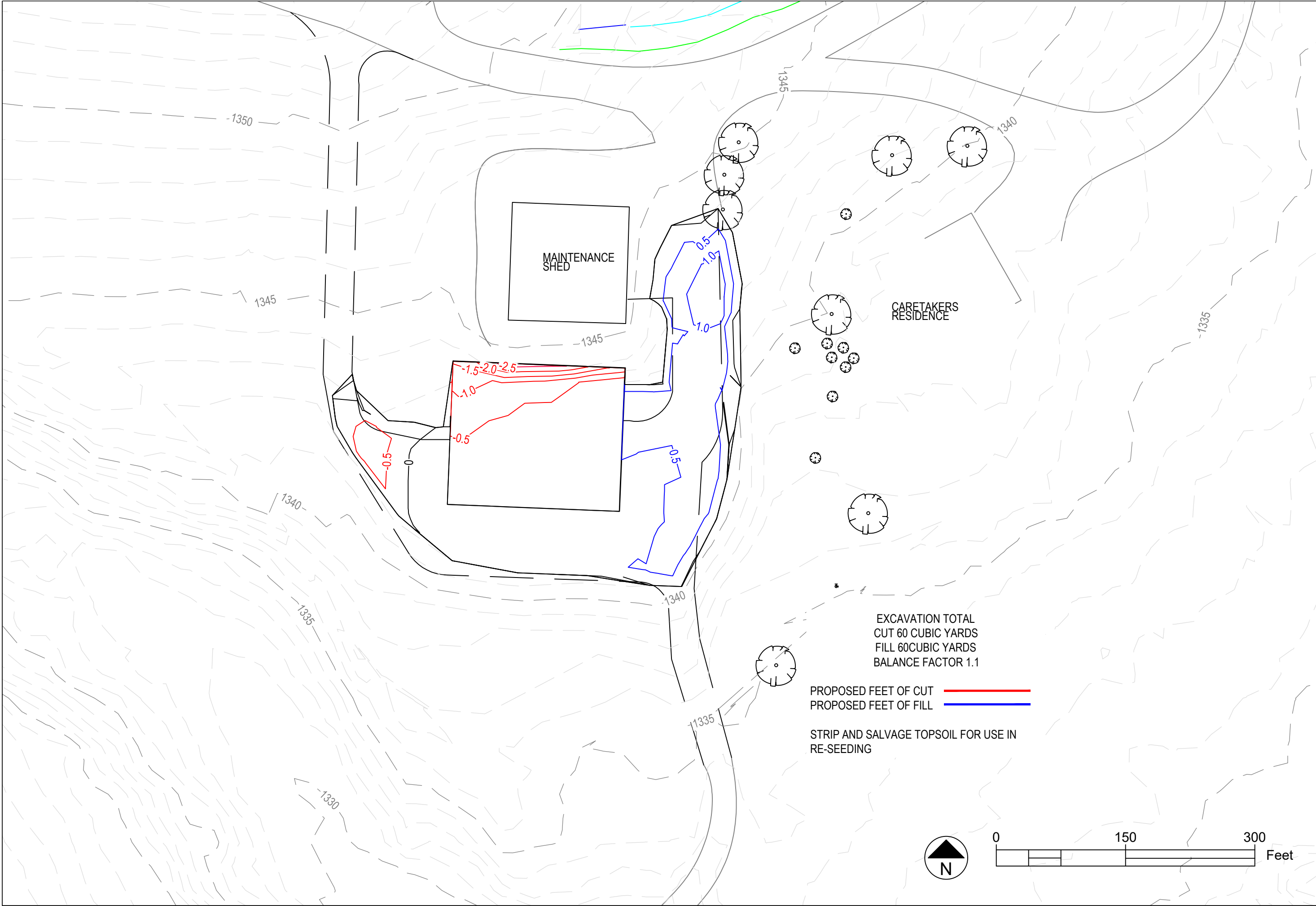
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| Date Printed: 11/4/21                                                                                                                                   | Rev. | Date |  |  |
|                                                                                                                                                         |      |      |  |  |
| Existing Topography<br>New Maintenance Building                                                                                                         |      |      |  |  |
| <b>SPRING CREEK PRAIRIE</b><br>11700 SW 100 ST<br>DENTON, NE 68339                                                                                      |      |      |  |  |
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| <br><b>Agri-Services &amp; Engineering, Inc.</b>                   |      |      |  |  |
|                                                                    |      |      |  |  |
| C2.0                                                                                                                                                    |      |      |  |  |





|                                                                                                                                                         |      |      |  |  |
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| Date Printed: 11/4/21                                                                                                                                   | Rev. | Date |  |  |
|                                                                                                                                                         |      |      |  |  |
| Finished Topography<br>New Maintenance Building                                                                                                         |      |      |  |  |
| SPRING CREEK PRAIRIE<br>11700 SW 100 ST<br>DENTON, NE 68339                                                                                             |      |      |  |  |
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|                                                                    |      |      |  |  |
| C2.1                                                                                                                                                    |      |      |  |  |



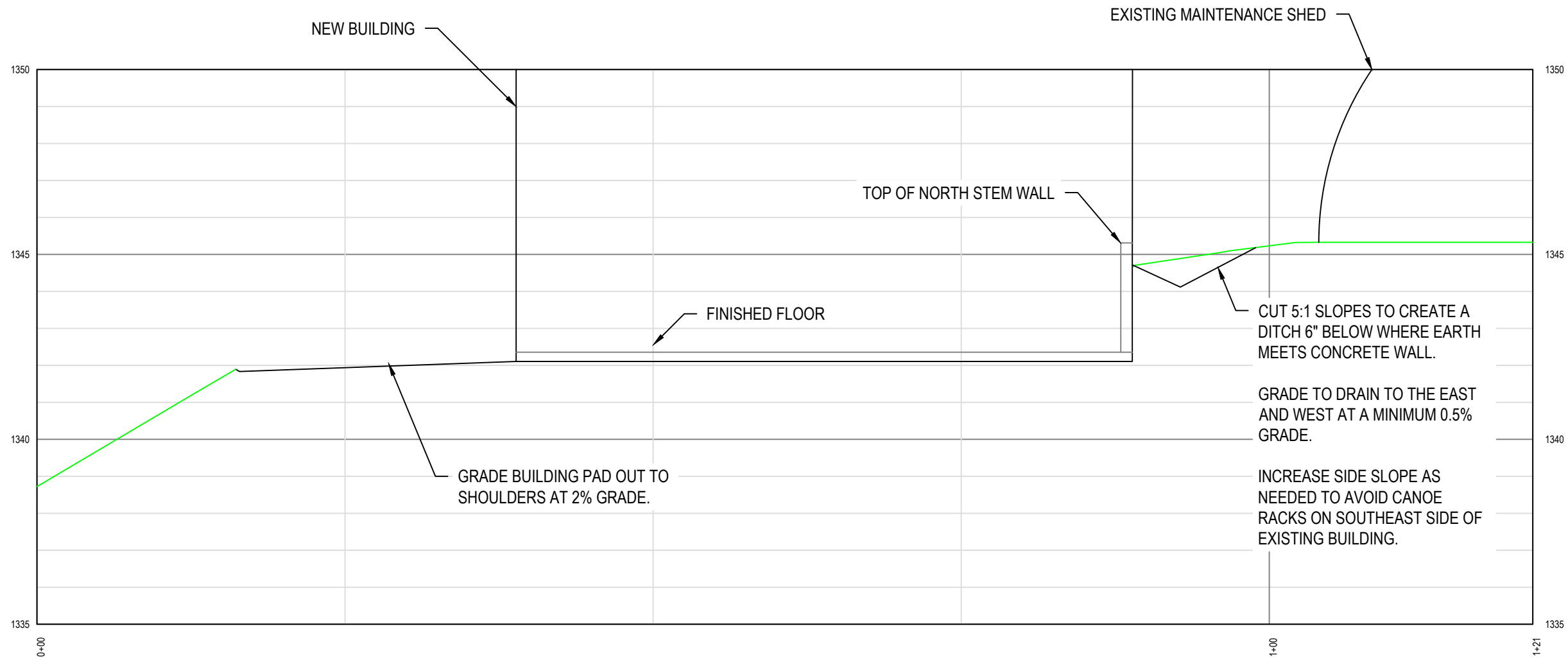


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|                                           |                                                             |                                                                                                                     |                                                                                                                                       |                                                                                       |
|-------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Cut Fill Plan<br>New Maintenance Building | SPRING CREEK PRAIRIE<br>11700 SW 100 ST<br>DENTON, NE 68339 | 15460 NW 48th St.<br>Raymond, NE 68428<br>Office: (402) 783-2100<br>Fax: (402) 783-2104<br>Web Site: www.settje.com | <br><b>Agri-Services &amp; Engineering, Inc.</b> |  |
|                                           |                                                             |                                                                                                                     |                                                                                                                                       |                                                                                       |

C2.2





BUILDING PAD - BUILDING PAD SECTION  
VERTICAL EXAGGERATION = 3:1

|                       |      |      |  |  |
|-----------------------|------|------|--|--|
| Date Printed: 11/4/21 | Rev. | Date |  |  |
|                       |      |      |  |  |
|                       |      |      |  |  |
|                       |      |      |  |  |

Building Pad Section  
New Maintenance Building

**SPRING CREEK PRAIRIE**  
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C2.3





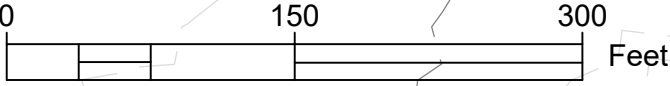
AGGREGATE LAYER THICKNESS:  
- 5" BASE  
- 3" SURFACE  
59 TONS SURFACING. 98 TONS BASE COURSE.  
INCORPORATE BASE COURSE PER  
SPECIFICATIONS

SEED AND MULCH USING  
APPROVED SEED MIX AND  
SALVAGED TOPSOIL  
0.1 ACRES

3" SURFACING AGGREGATE LAYER  
8.5 TONS

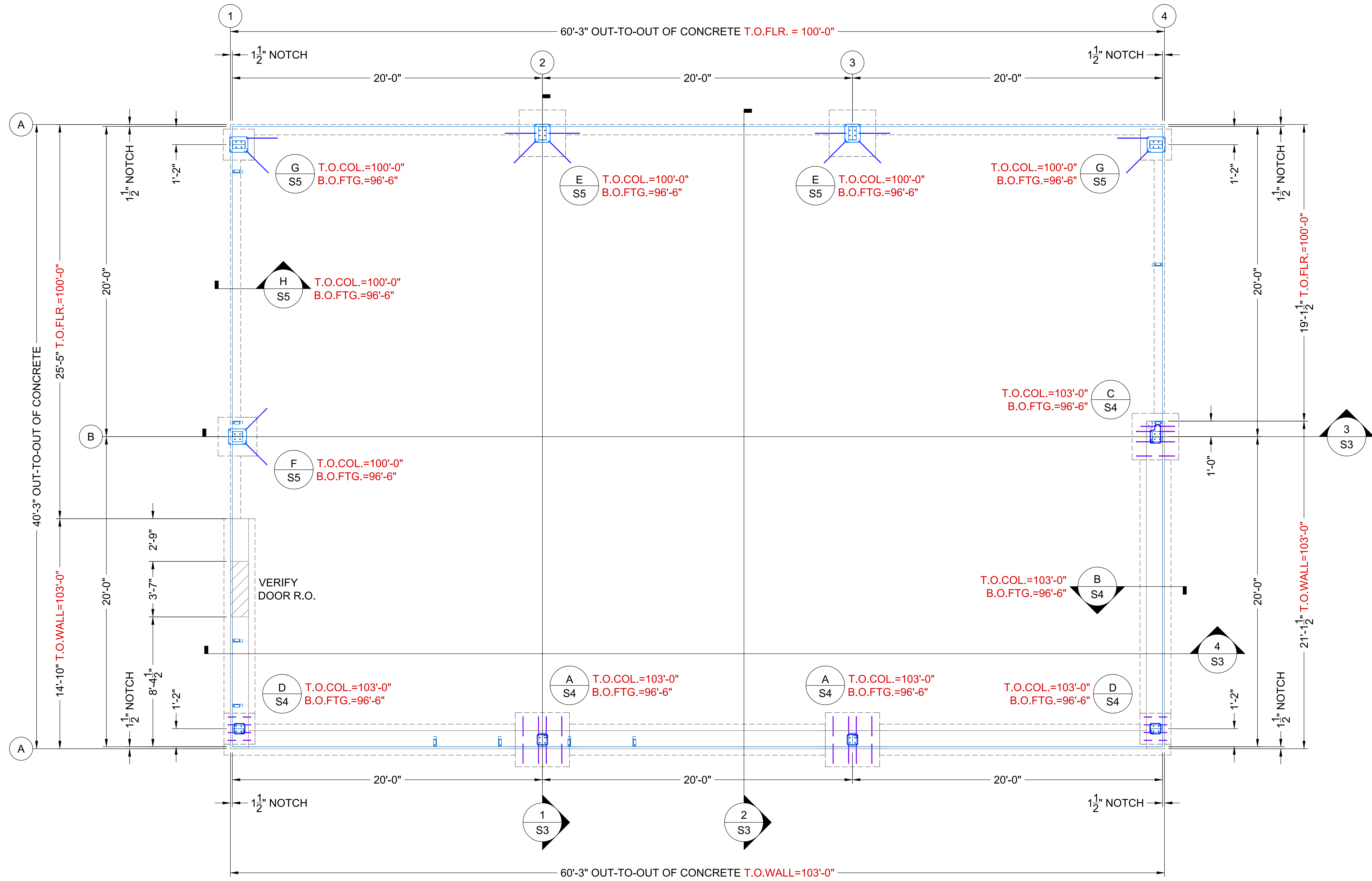
MAINTENANCE  
SHED

CARETAKERS  
RESIDENCE



|                                                                                                                                       |      |      |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|------|------|--|--|
| Date Printed: 11/4/21                                                                                                                 | Rev. | Date |  |  |
|                                                                                                                                       |      |      |  |  |
| Surfacing Plan<br>New Maintenance Building                                                                                            |      |      |  |  |
| SPRING CREEK PRAIRIE<br>11700 SW 100 ST<br>DENTON, NE 68339                                                                           |      |      |  |  |
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| <br><b>Agri-Services &amp; Engineering, Inc.</b> |      |      |  |  |
|                                                  |      |      |  |  |
| C3.0                                                                                                                                  |      |      |  |  |





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

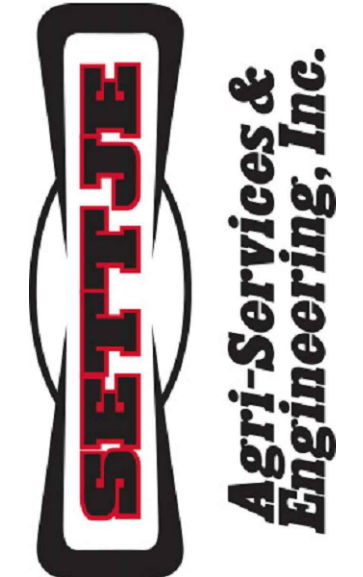


Maintenance Building  
Foundation Plan

Spring Creek Prairie Audubon Center

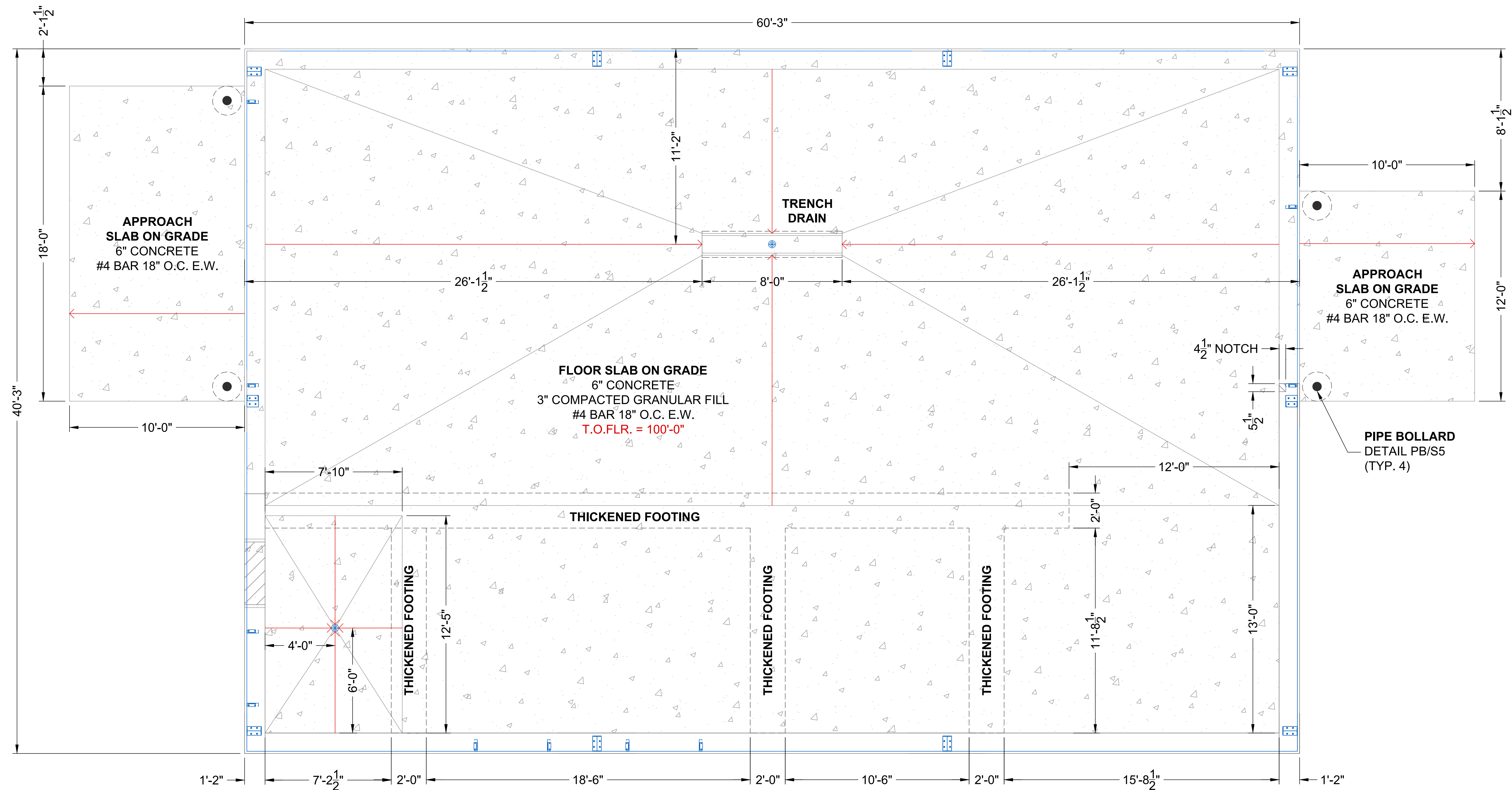
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FLATWORK PLAN  
SCALE: 3/8" = 1'-0"



Maintenance Building  
Flatwork Plan

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PROJECT NOTES

A. GENERAL:

1. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL OF THE PROFESSIONAL OF RECORD.
2. NO CHANGES IN SIZE OR DIMENSION OF STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL OF RECORD.
3. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING & FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS & METHODS OF CONSTRUCTION & ALL JOB SITE SAFETY.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.
6. ASSUMED SOIL BEARING CAPACITY IS 2000 POUNDS PER SQUARE FOOT.

B. FOUNDATION:

1. DO NOT USE EXCESSIVE COMPACTION EFFORTS ADJACENT TO BASEMENT OR RETAINING WALLS. SUCCESSIVE PASSES OF HEAVY COMPACTION EQUIPMENT, SUCH AS ROLLERS, CAN RESULT IN WALL PRESSURE BUILD UP BEYOND THE DESIGN INTENT. HEAVY EQUIPMENT SHOULD BE KEPT A MINIMUM OF 10 FEET FROM THE TOP OF BASEMENT OR RETAINING WALLS.
2. ALL REINFORCING BARS & WWF SHALL BE SET ON CHAIRS & TIED IN PLACE.
3. WALL CRACKS DUE TO IMPROPER CURING METHODS, OR WEATHER PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. PLACING OF CONCRETE SHALL BE DONE IN CONFORMANCE WITH ACI-306 FOR COLD WEATHER & ACI-305 FOR HOT WEATHER.

C. CONCRETE & REINFORCING STEEL:

1. CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301.
2. MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c) & DENSITY FOR CAST-IN-PLACE FOOTINGS & WALLS. 4,000 PSI & 145 PCF, RESPECTIVELY.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
4. LAP SPLICES ARE TO BE 48 BAR DIAMETER WITH A MINIMUM LAP OF 24"
5. STRUCTURAL CONCRETE SHALL BE MECHANICALLY CONSOLIDATED IN ACCORDANCE WITH ACI 309.

| DIA.   | EMBED |
|--------|-------|
| *1/2"  | 14"   |
| 5/8"   | 16"   |
| 3/4"   | 18"   |
| 7/8"   | 22"   |
| 1"     | 24"   |
| 1 1/8" | 24"   |
| 1 1/4" | 24"   |

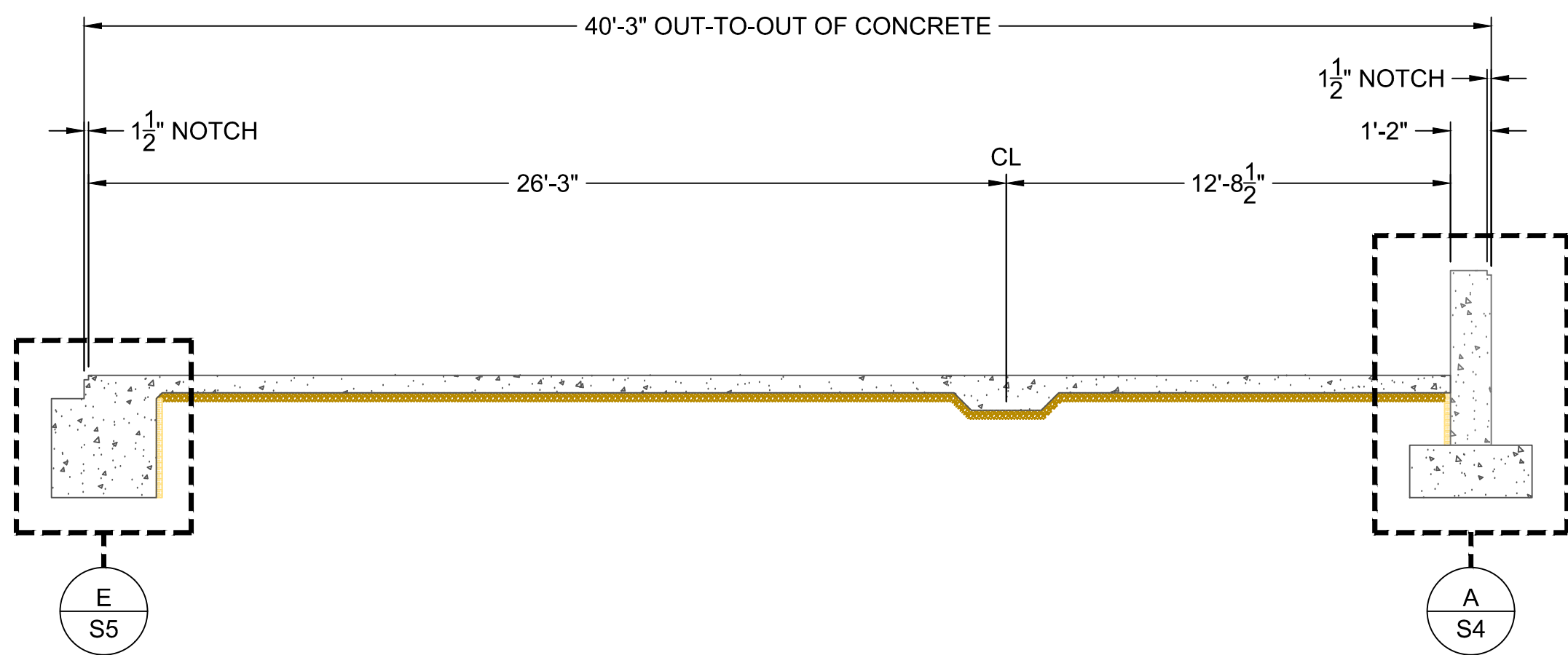
ANCHOR ROD DETAILS

LENGTH  
EMBED  
TOP OF CONCRETE  
PROJECTION PER ANCHOR BOLT PLAN  
TACK WELD

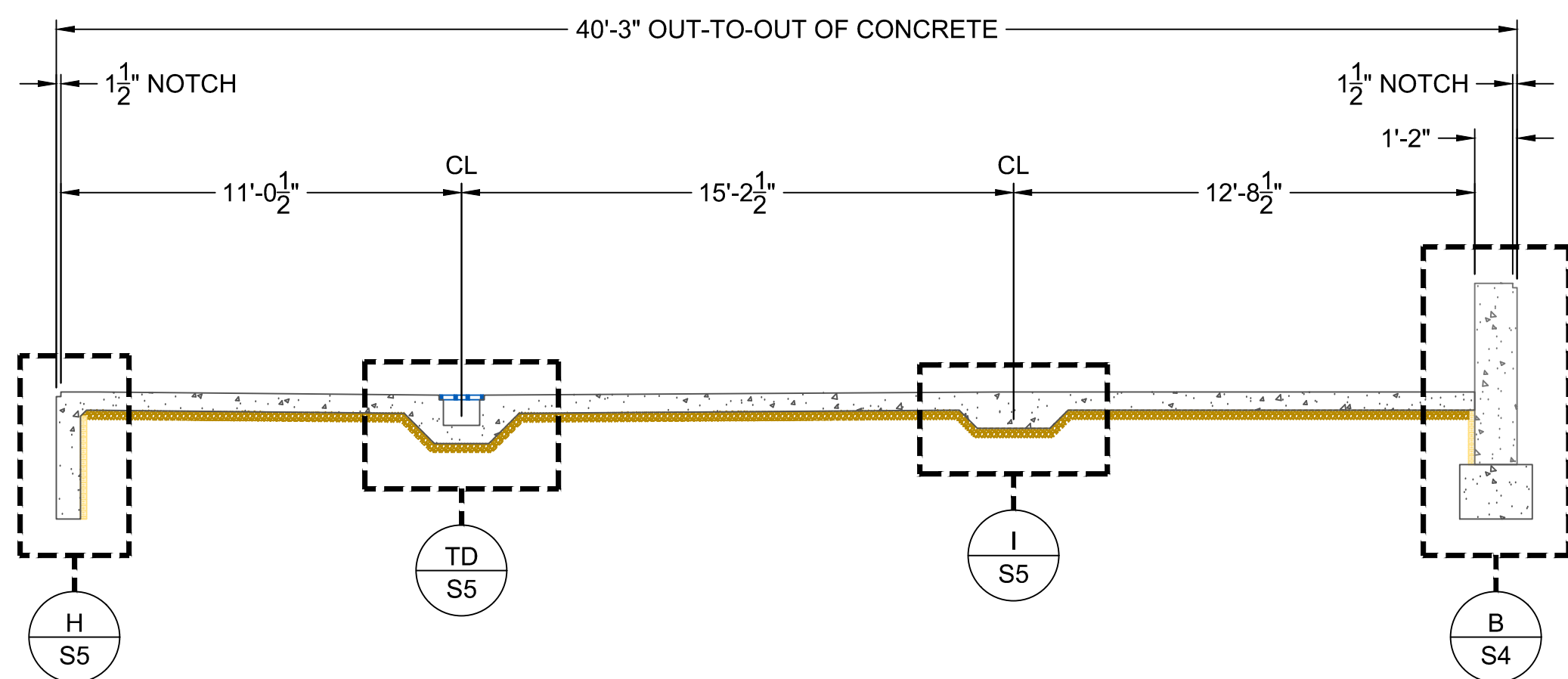
OPTION A: HEADED BOLT  
OPTION B: THREADED ROD W/ NUT

NOTES:

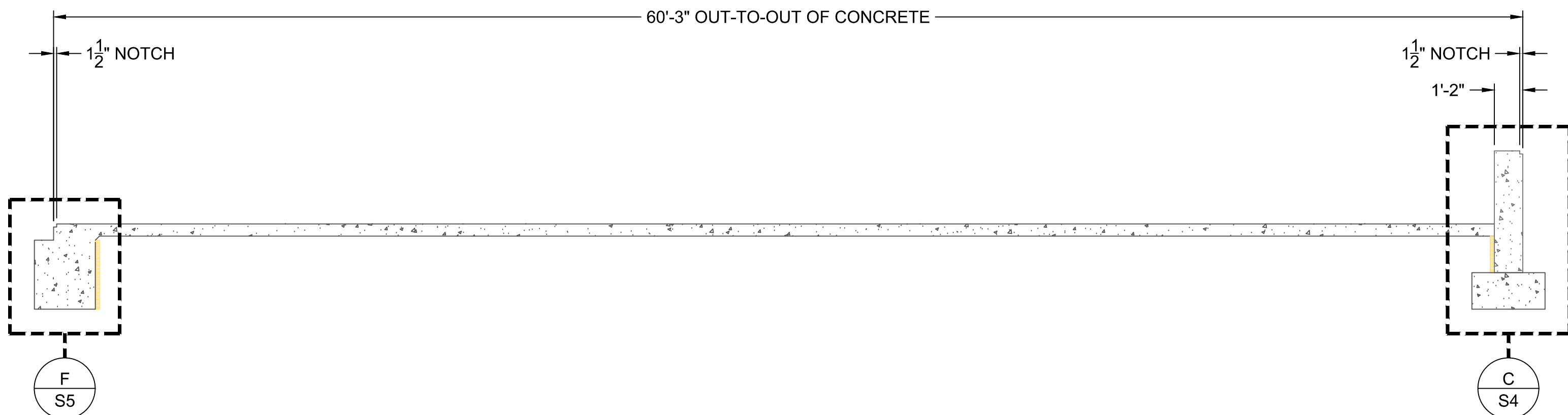
1. AT OPENING JAMBS, 1/2"x6" EXPANSION ANCHORS MAY BE USED IN LIEU OF CAST-IN-PLACE.



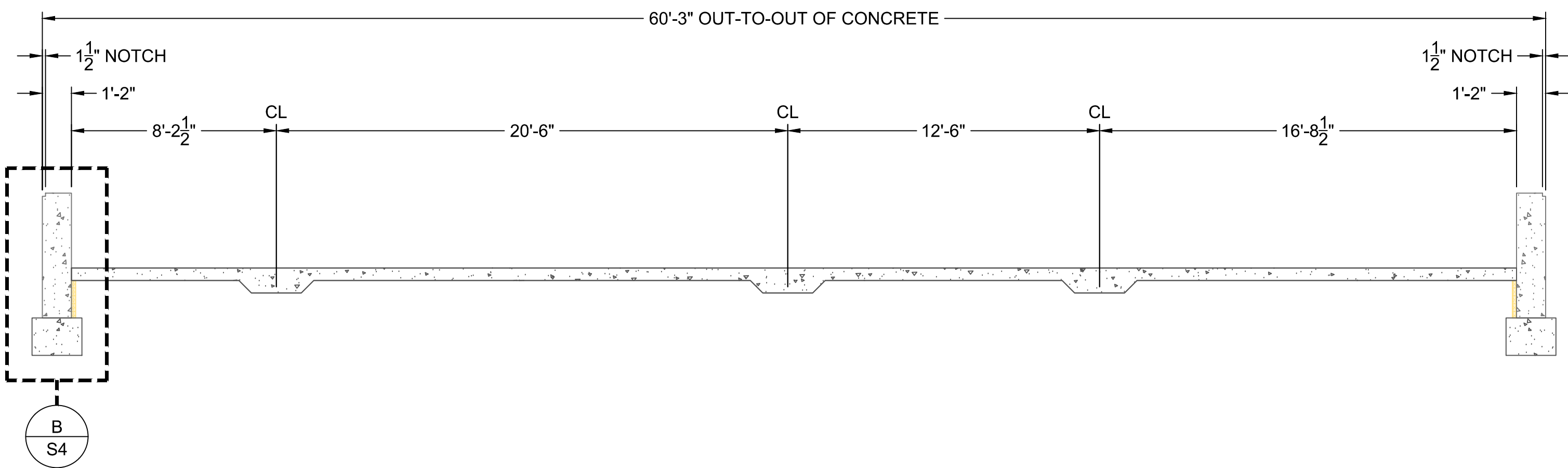
1 FOUNDATION SECTION  
SCALE: 1/4" = 1'-0"



2 FOUNDATION SECTION  
SCALE: 1/4" = 1'-0"



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



4 FOUNDATION SECTION  
SCALE: 1/4" = 1'-0"



Maintenance Building  
Foundation Sections

Spring Creek Prairie Audubon Center

11700 SW 100th St  
Denton, Nebraska 68339

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Raymond, NE 68428  
Office: (402) 783-2100  
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Agri-Services & Engineering, Inc.

Project #: -----



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Maintenance Building  
Foundation Details

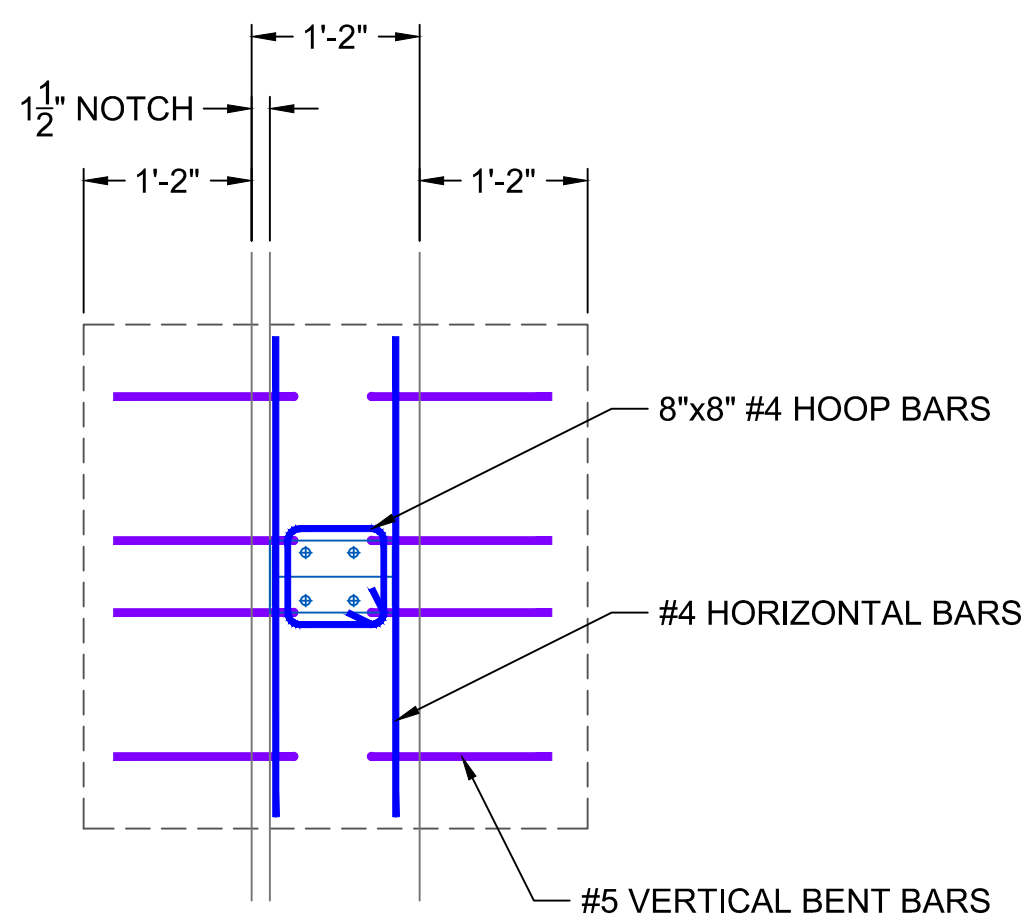
Spring Creek Prairie Audubon Center

11700 SW 100th St  
Denton, Nebraska 68339

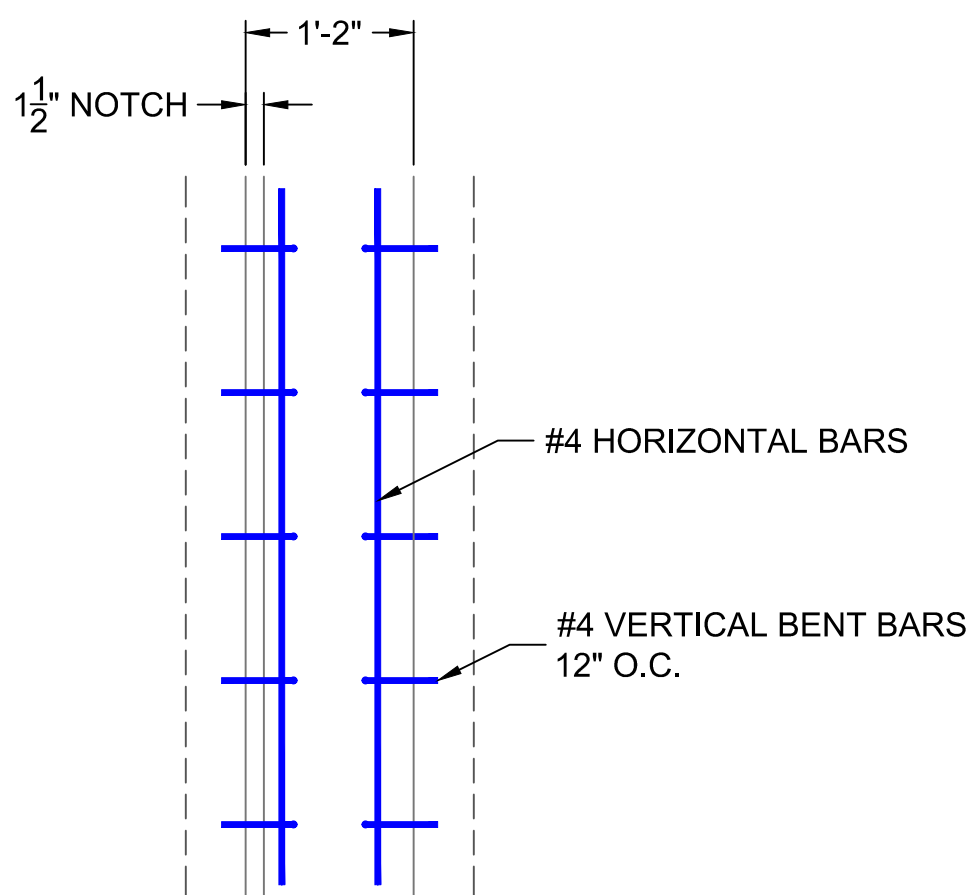
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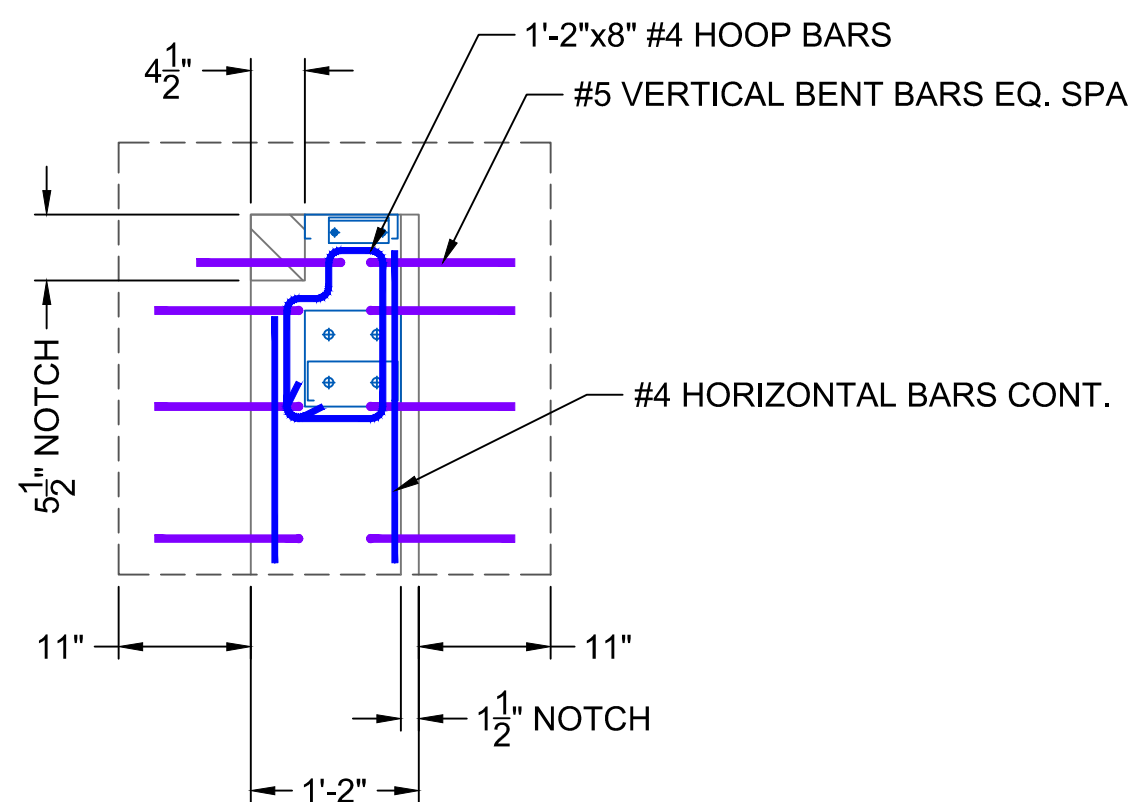
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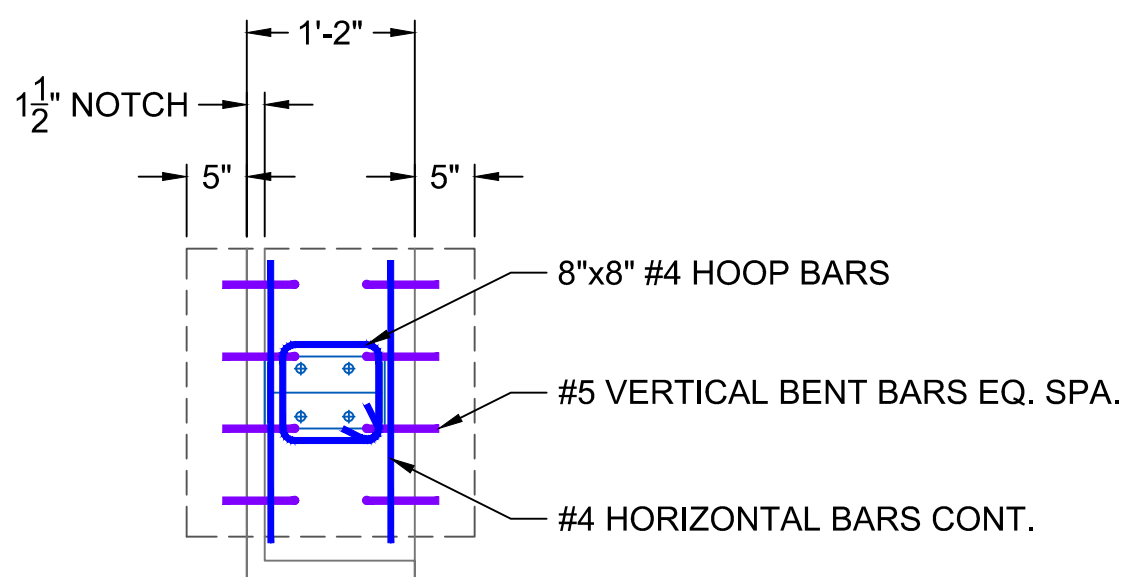
WALL REINFORCEMENT TOP VIEW



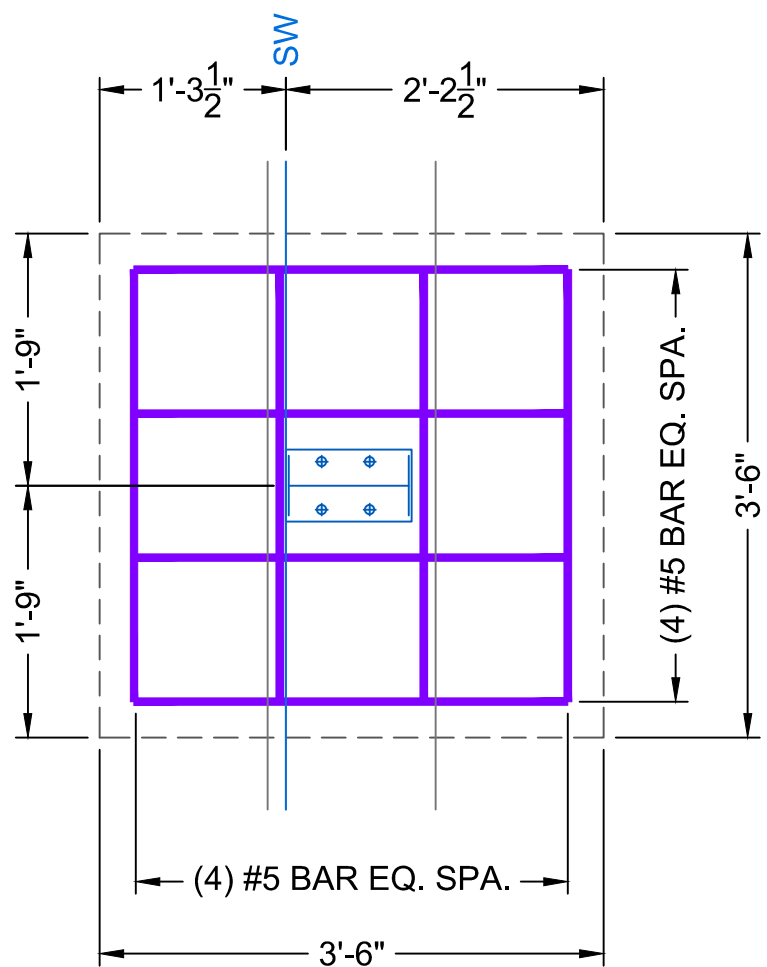
WALL REINFORCEMENT TOP VIEW



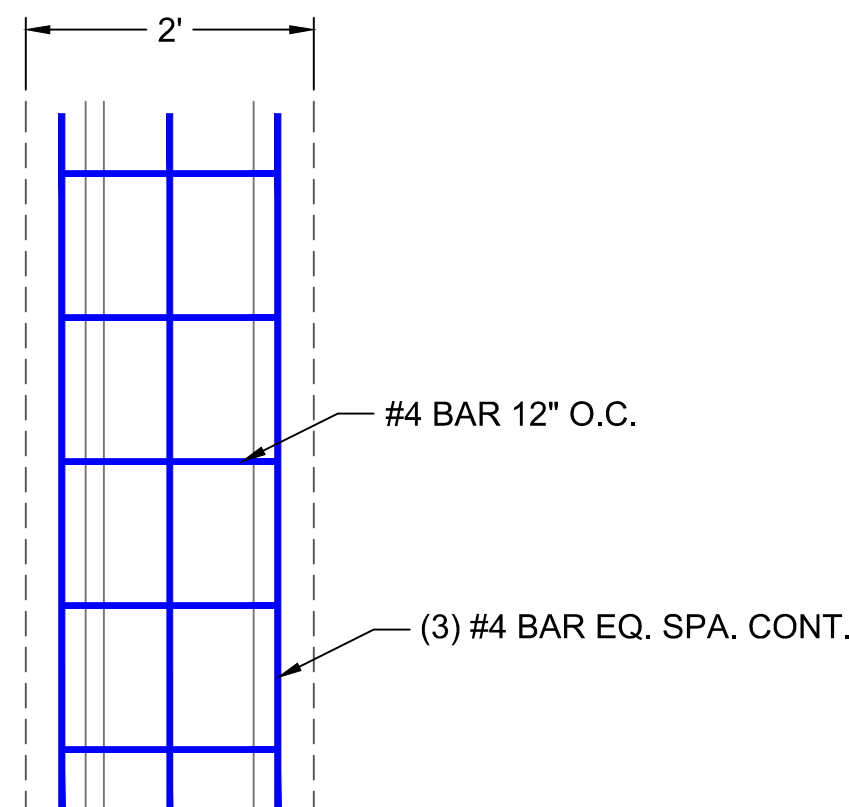
WALL REINFORCEMENT TOP VIEW



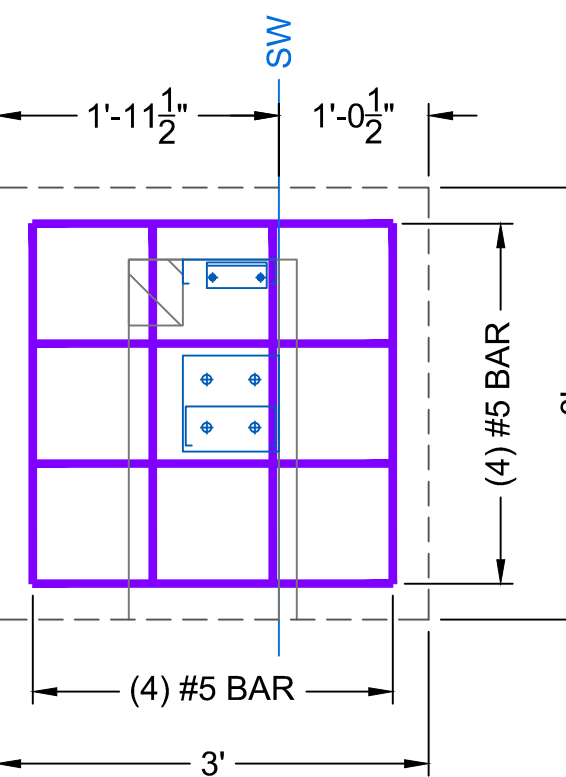
WALL REINFORCEMENT TOP VIEW



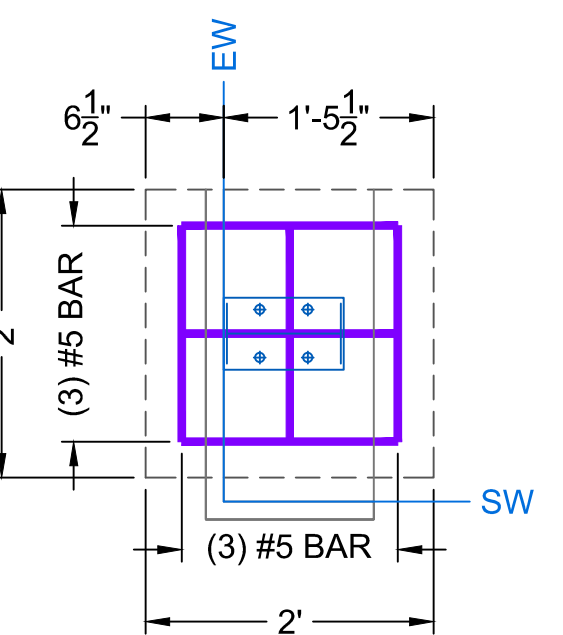
FOOTING REINFORCEMENT TOP VIEW



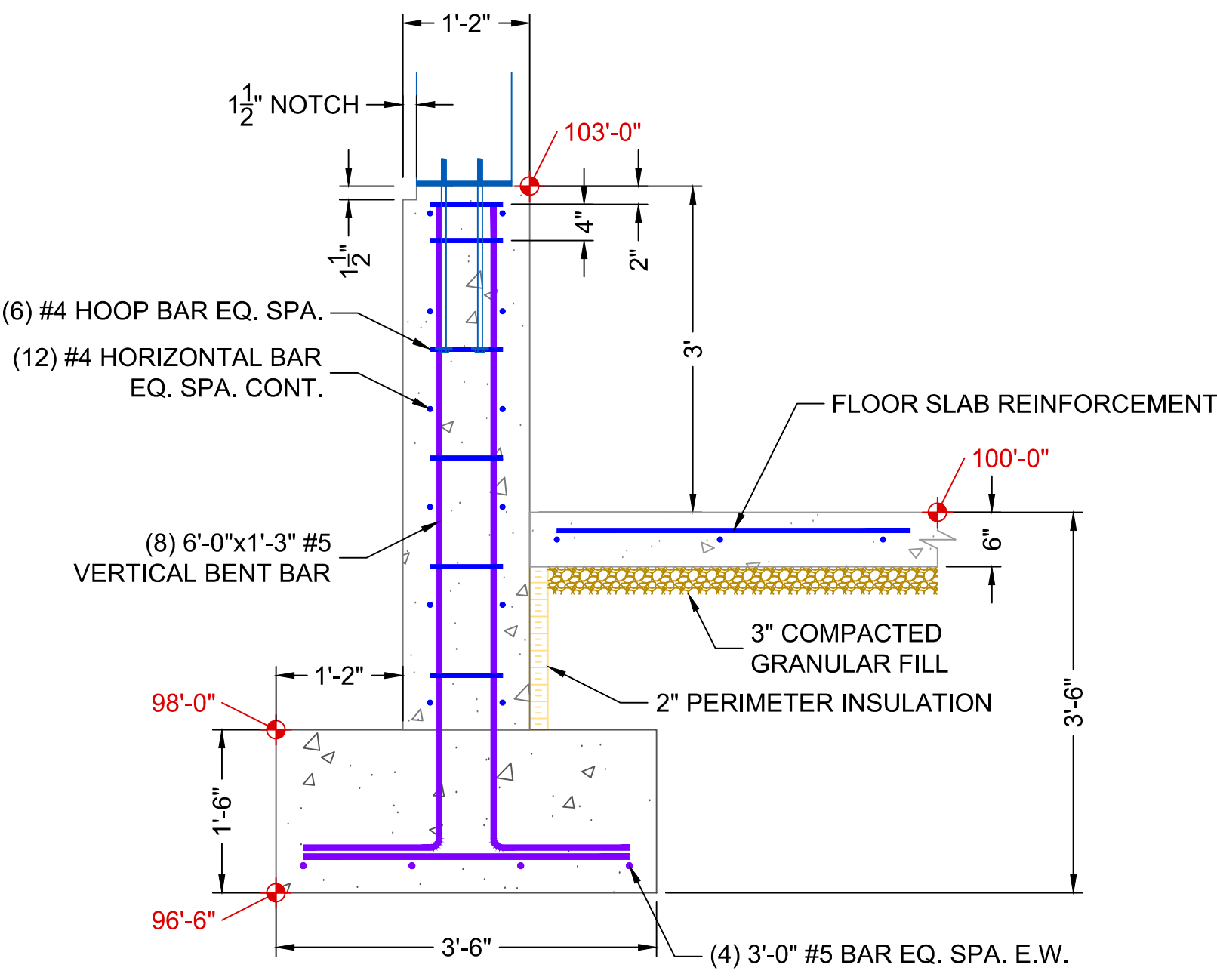
FOOTING REINFORCEMENT TOP VIEW



FOOTING REINFORCEMENT TOP VIEW

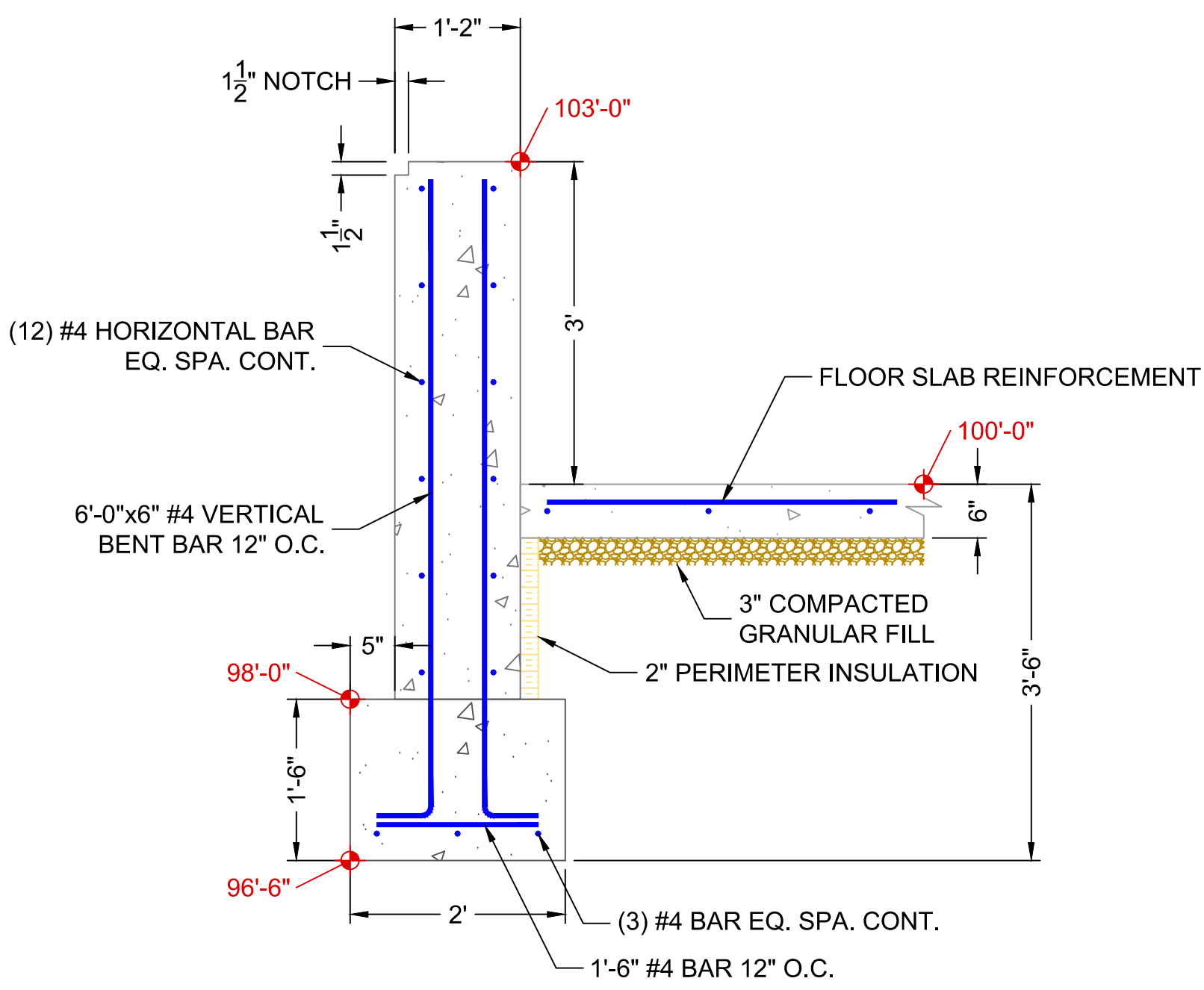


FOOTING REINFORCEMENT TOP VIEW



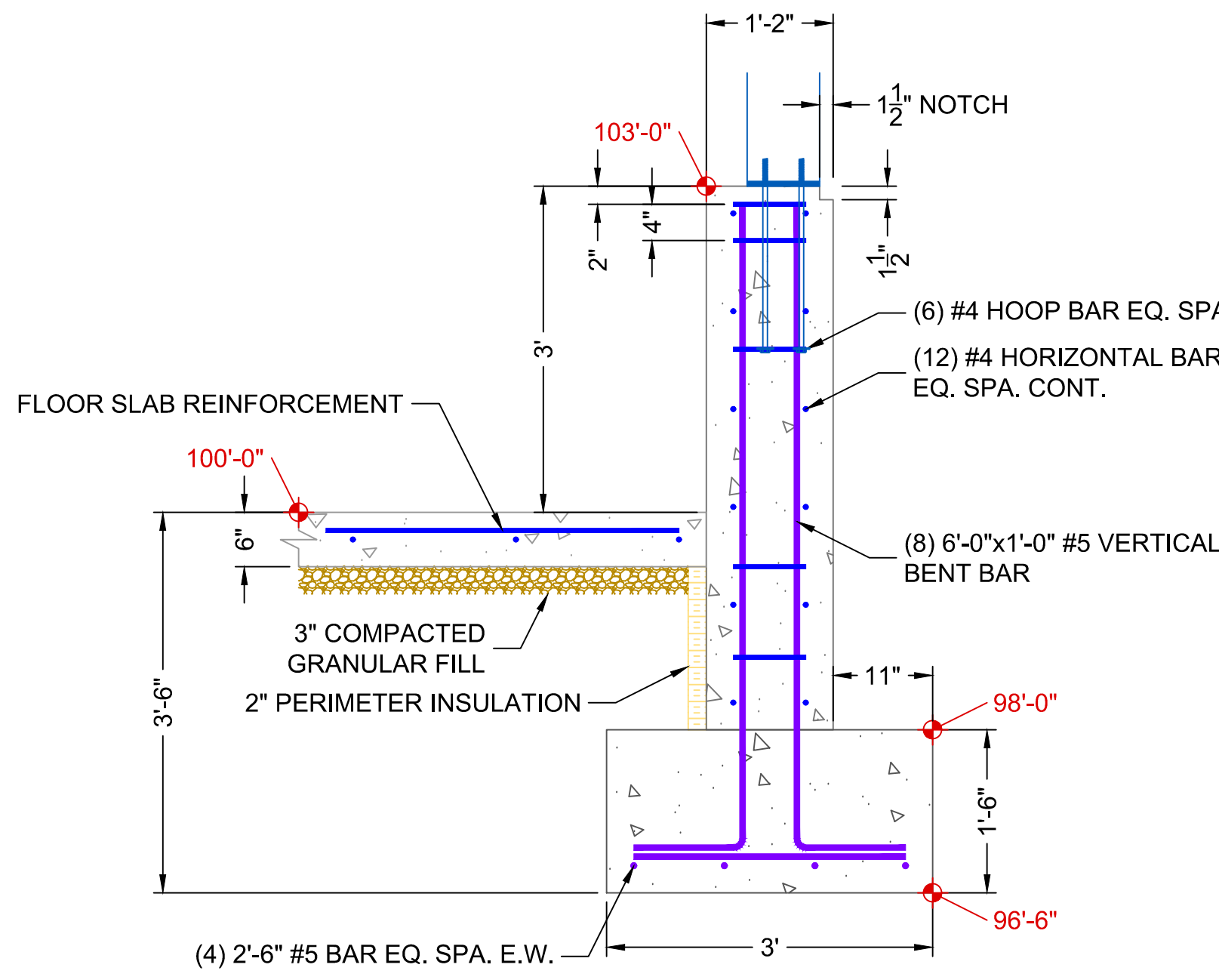
SIDE VIEW

A 3'H SIDE WALL FOOTING  
SCALE: 3/4" = 1'-0"



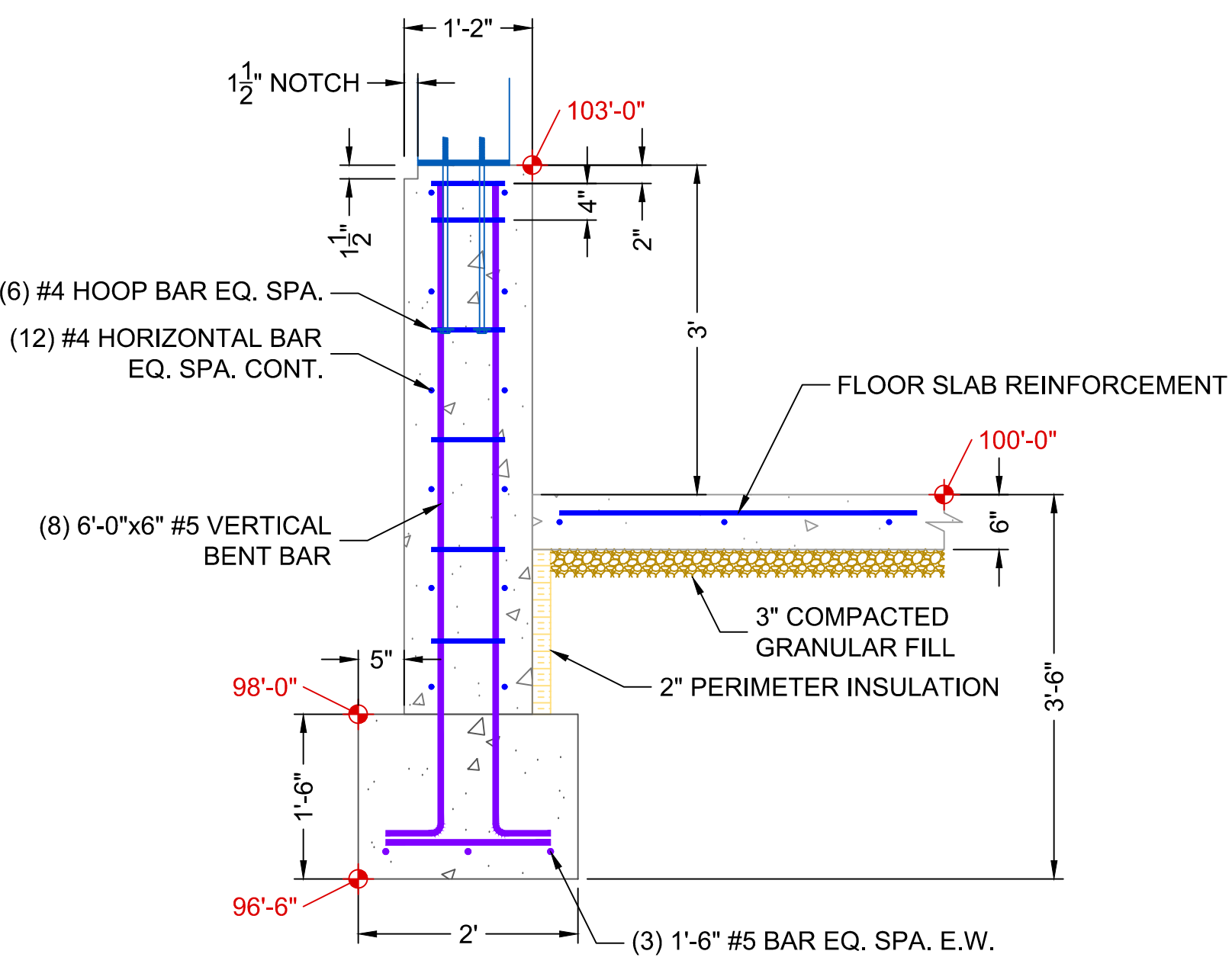
SIDE VIEW

B 3'H FOOTING BETWEEN COLUMNS  
SCALE: 3/4" = 1'-0"



SIDE VIEW

C 3'H END WALL FOOTING  
SCALE: 3/4" = 1'-0"



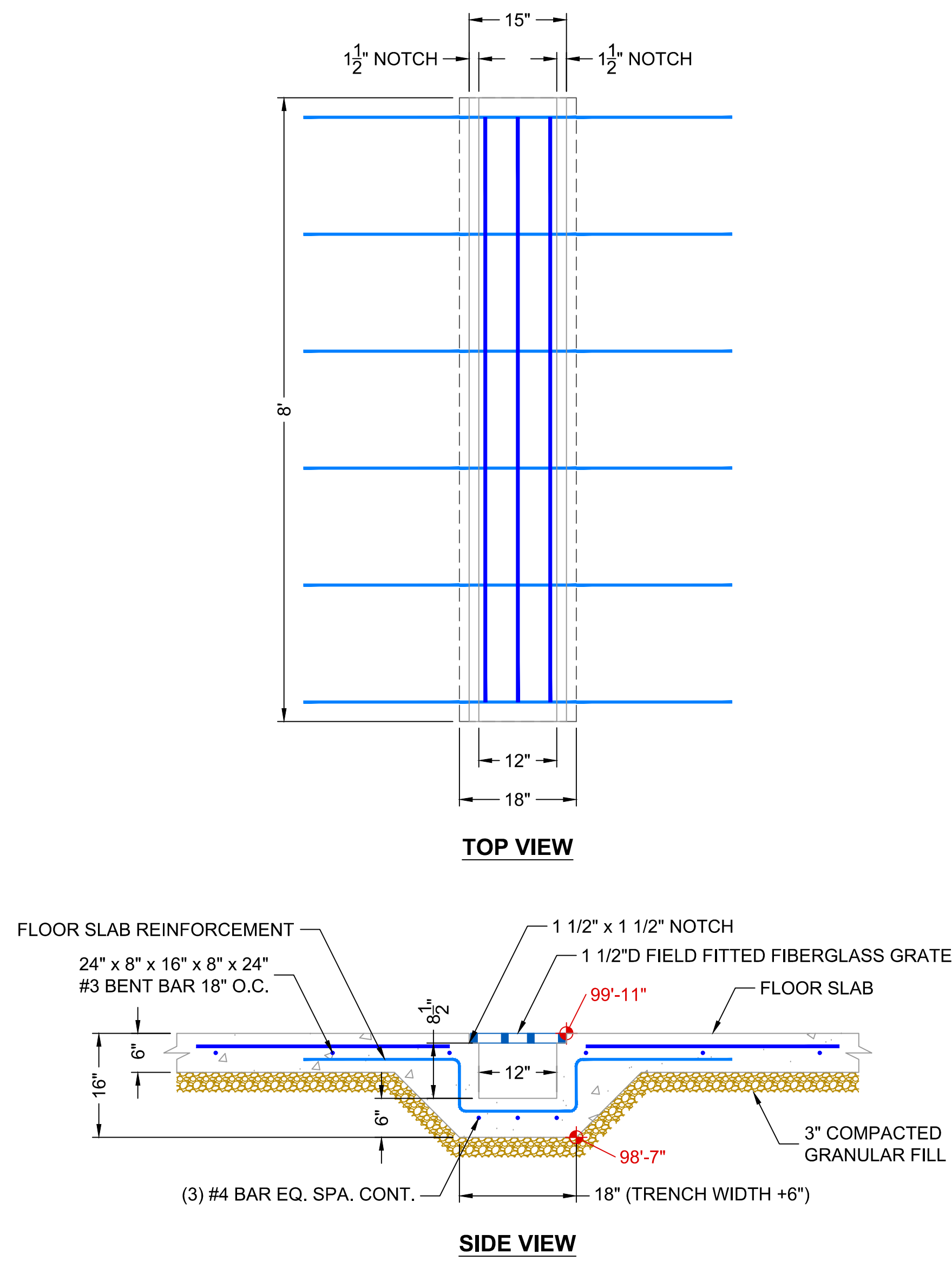
SIDE VIEW

D 3'H END WALL FOOTING AT CORNER  
SCALE: 3/4" = 1'-0"

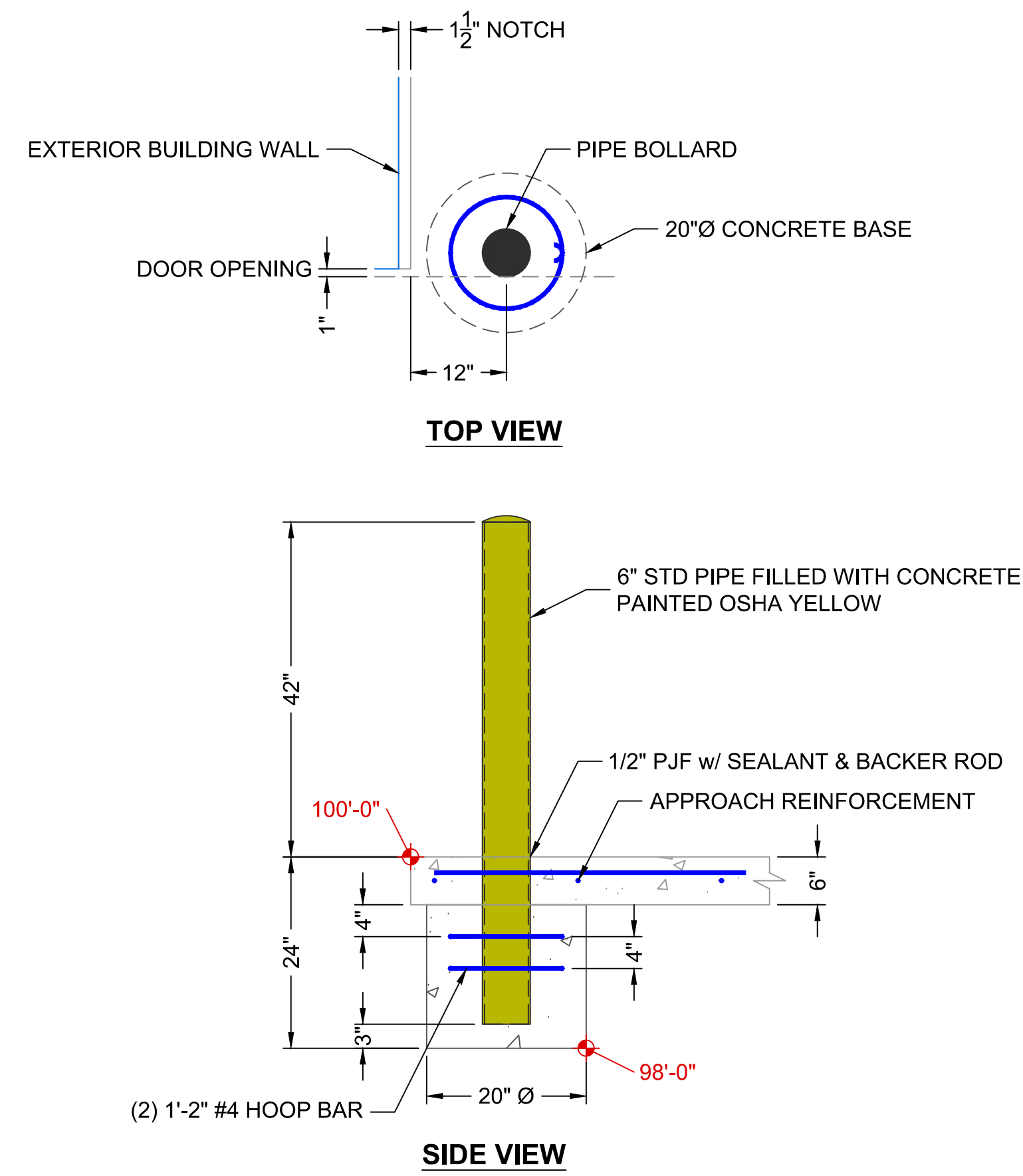




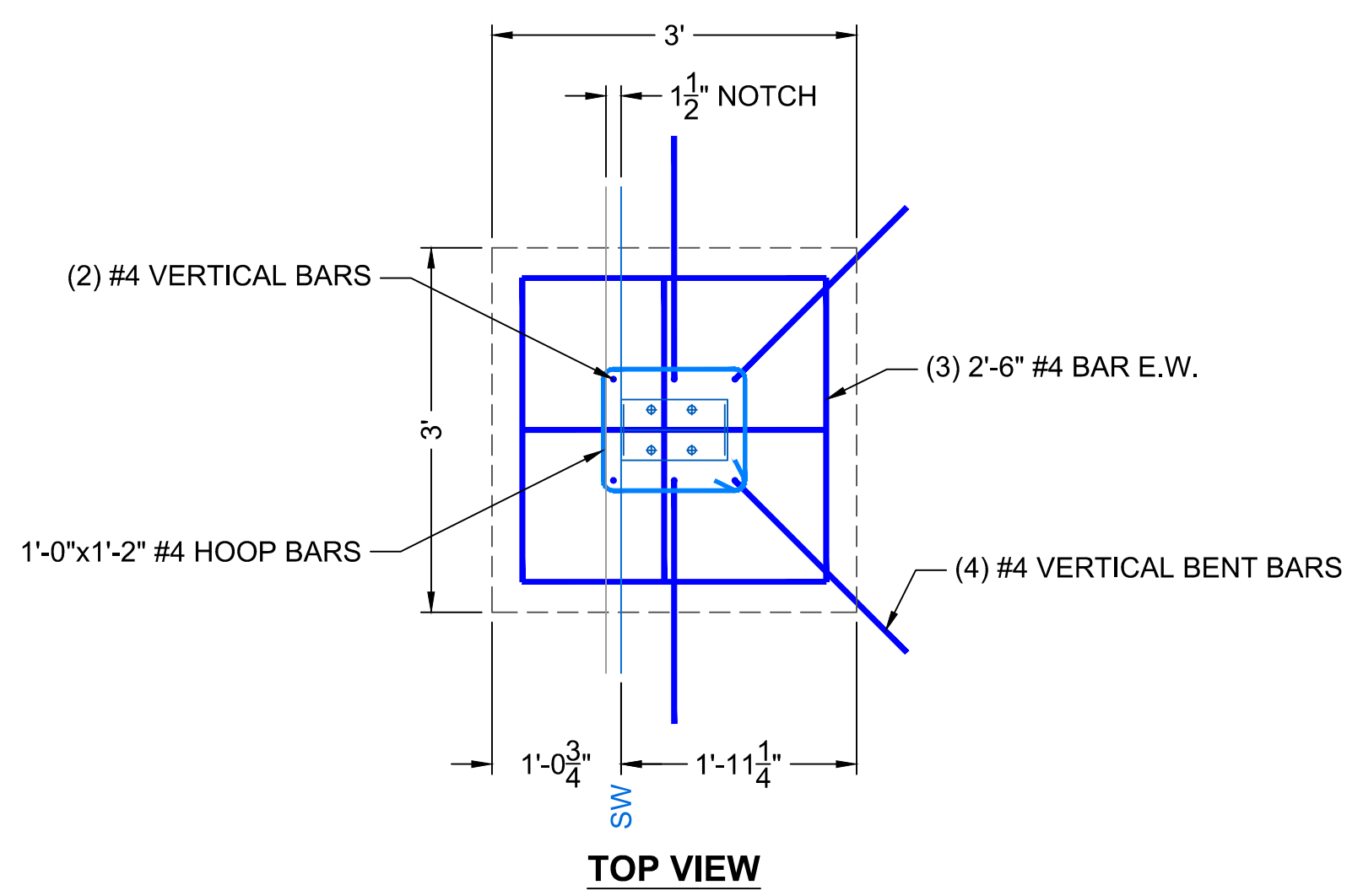
**I THICKENED FOOTING AT FRAMED WALL**  
NOT TO SCALE



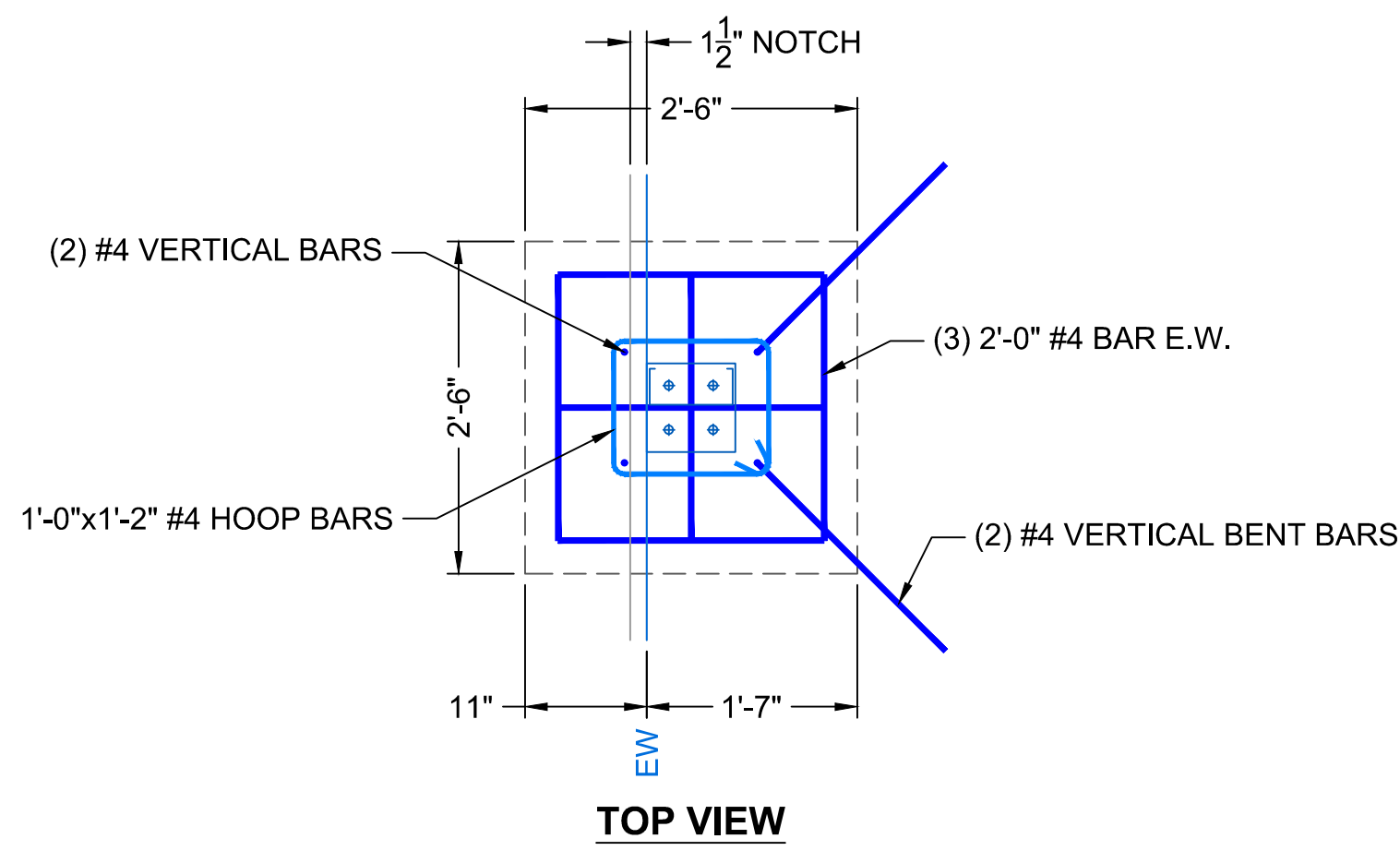
**TD TRENCH DRAIN**  
SCALE: 3/4" = 1'-0"



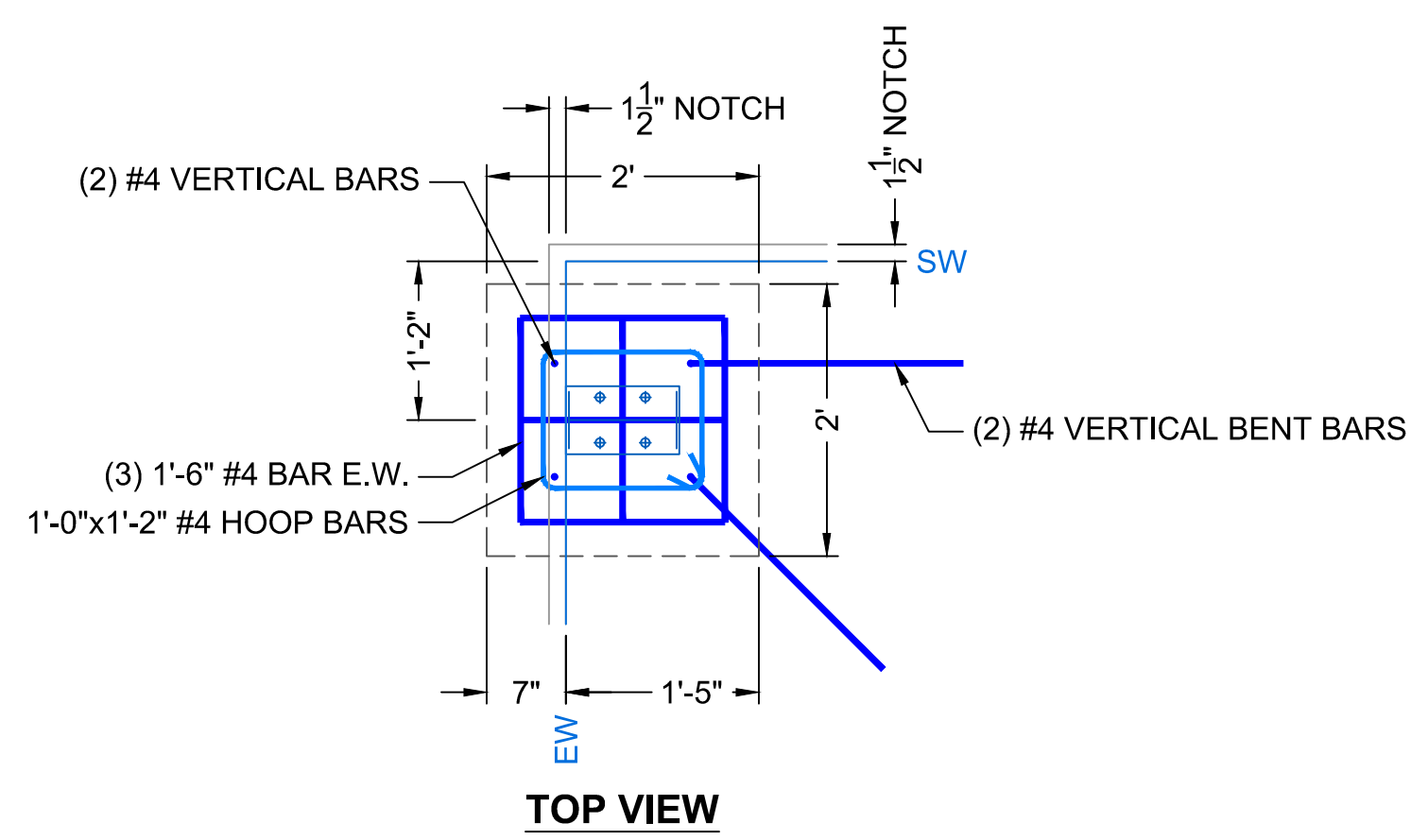
**PB PIPE BOLLARD**  
SCALE: 3/4" = 1'-0"



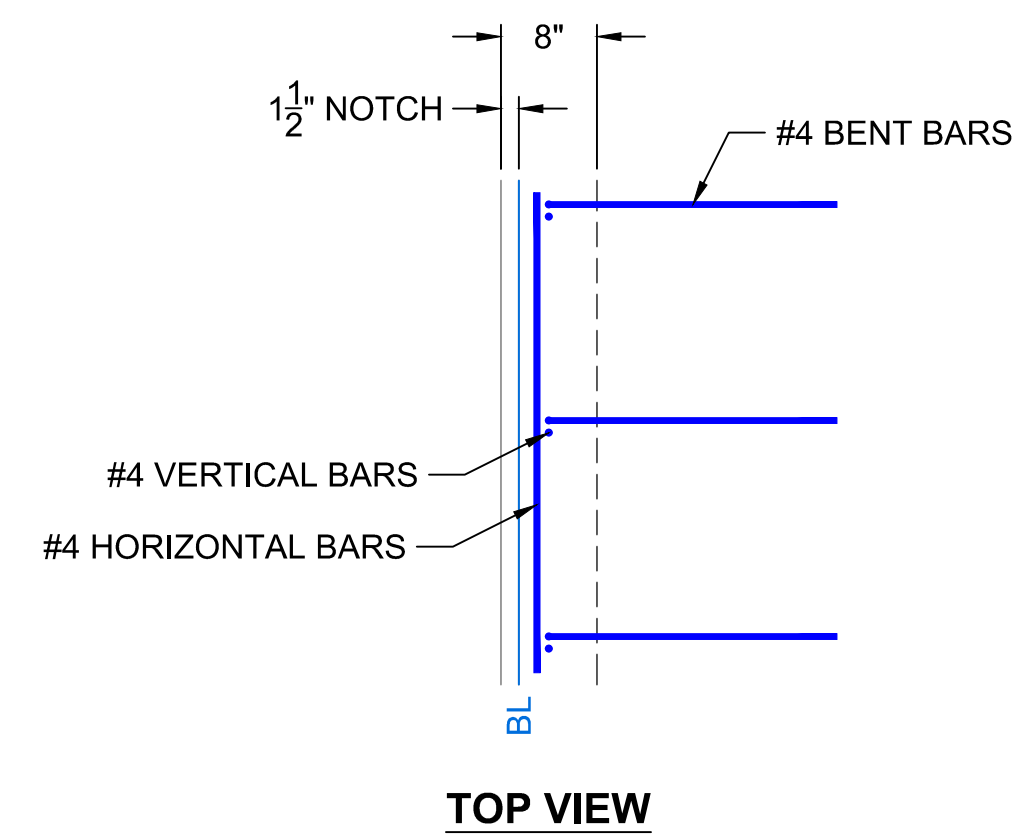
**E BLOCK COLUMN FOOTING**  
SCALE: 3/4" = 1'-0"



**F BLOCK COLUMN FOOTING**  
SCALE: 3/4" = 1'-0"



**G BLOCK COLUMN FOOTING**  
SCALE: 3/4" = 1'-0"



**H PERIMETER FOOTING**  
NOT TO SCALE



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Project #: -----



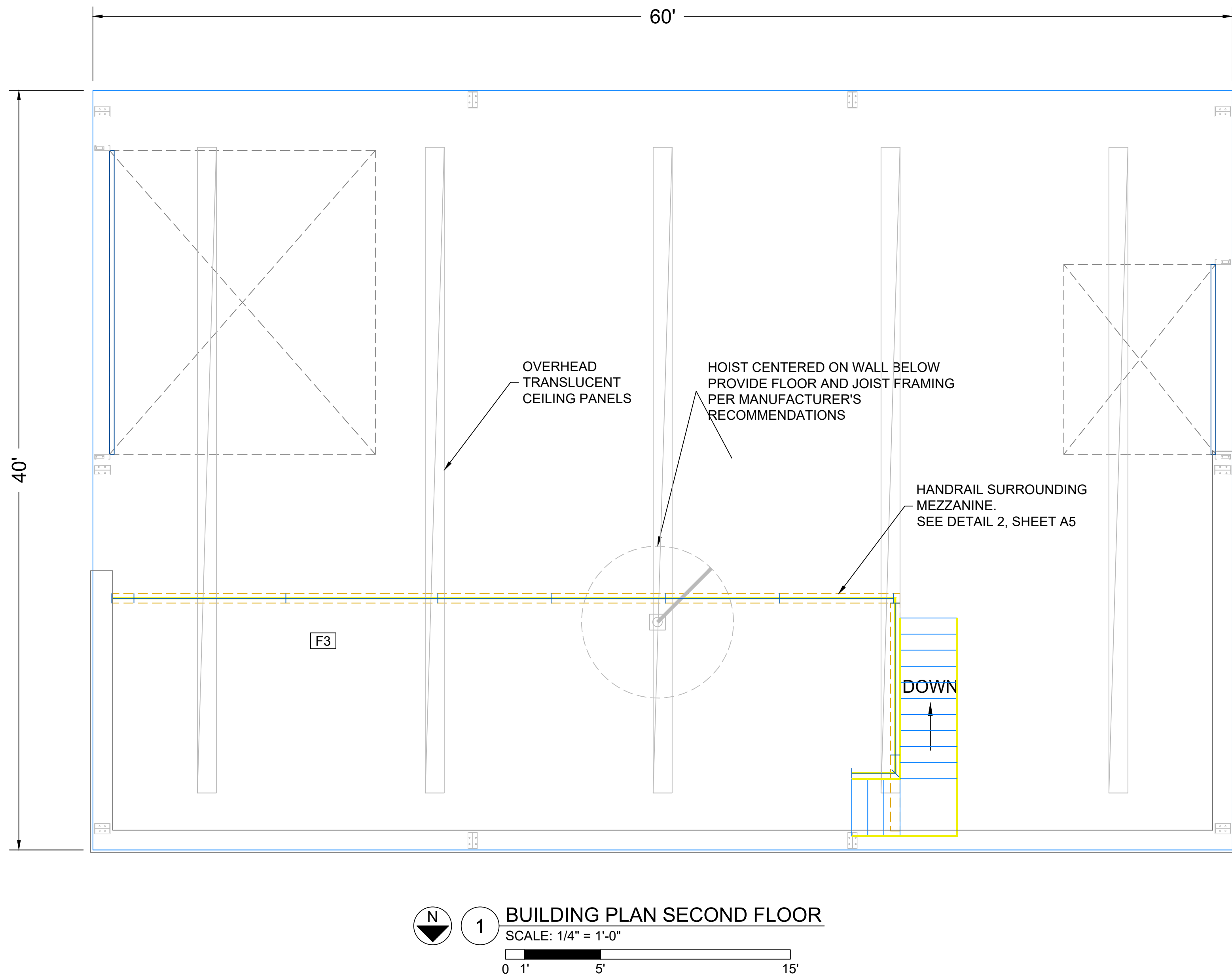
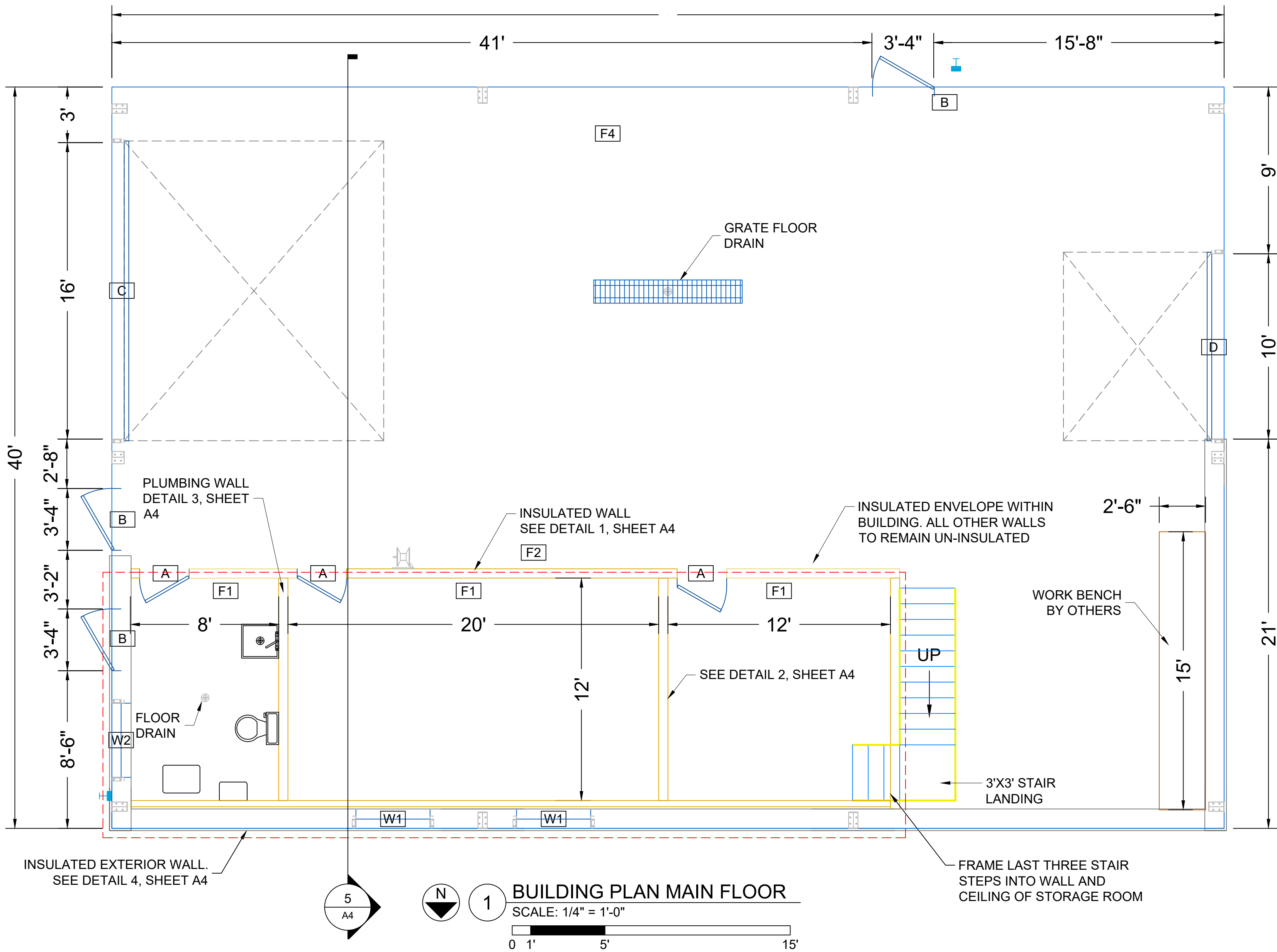
GENERAL NOTES:

1. LARGE OVERHEAD DOOR SHALL BE POWERED
2. SMALL OVERHEAD DOOR SHALL BE CHAIN OPERATED.
3. 17'-0" CLEARANCE TO CEILING.
4. STEEL FRAME GABLE BUILDING

| WINDOW SCHEDULE |                                          |
|-----------------|------------------------------------------|
| SYMBOL          | DESCRIPTION                              |
| W1              | 4'-0" X 3'-0" WINDOW                     |
| W2              | 4'-0" X 2'-0" WINDOW<br>OBSCURED GLAZING |

| DOOR SCHEDULE |                                                          |
|---------------|----------------------------------------------------------|
| SYMBOL        | DESCRIPTION                                              |
| A             | 2'-8" INSULATED DOOR METAL<br>WITH HYDRAULIC DOOR CLOSER |
| B             | 3'-0" EXTERIOR DOOR STEEL<br>WITH HYDRAULIC DOOR CLOSER  |
| C             | 16'-0" X 14'-0" OVERHEAD DOOR<br>W/ WINDOWS              |
| D             | 10'-0" X 8'-0" OVERHEAD DOOR<br>W/ WINDOWS               |

| FINISH SCHEDULE |                                                                                                                                      |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|
| SYMBOL          | DESCRIPTION                                                                                                                          |
| F1              | WALLS: DRYWALL: TAPE, MUD, PAINT, RUBBER BASE COVE TRIM<br>CEILING: MUD, TAPE, PAINT<br>FLOOR: SMOOTH TROWEL FINISH STAINED CONCRETE |
| F2              | WALLS: WHITE FIBERGLASS PANEL OVER SURFACED DRYWALL<br>CEILING: UNFINISHED<br>FLOOR: TROWEL FINISH CONCRETE                          |
| F3              | WALLS: UNFINISHED<br>CEILING: UNFINISHED<br>FLOOR: UN-FINISHED PLYWOOD                                                               |
| F4              | WALLS: UNFINISEHD<br>CEILING: UNFINISHED<br>FLOOR: TROWEL FINISH CONCRETE                                                            |



Maintenance Building  
Building Plan

Spring Creek Prairie Audubon Center

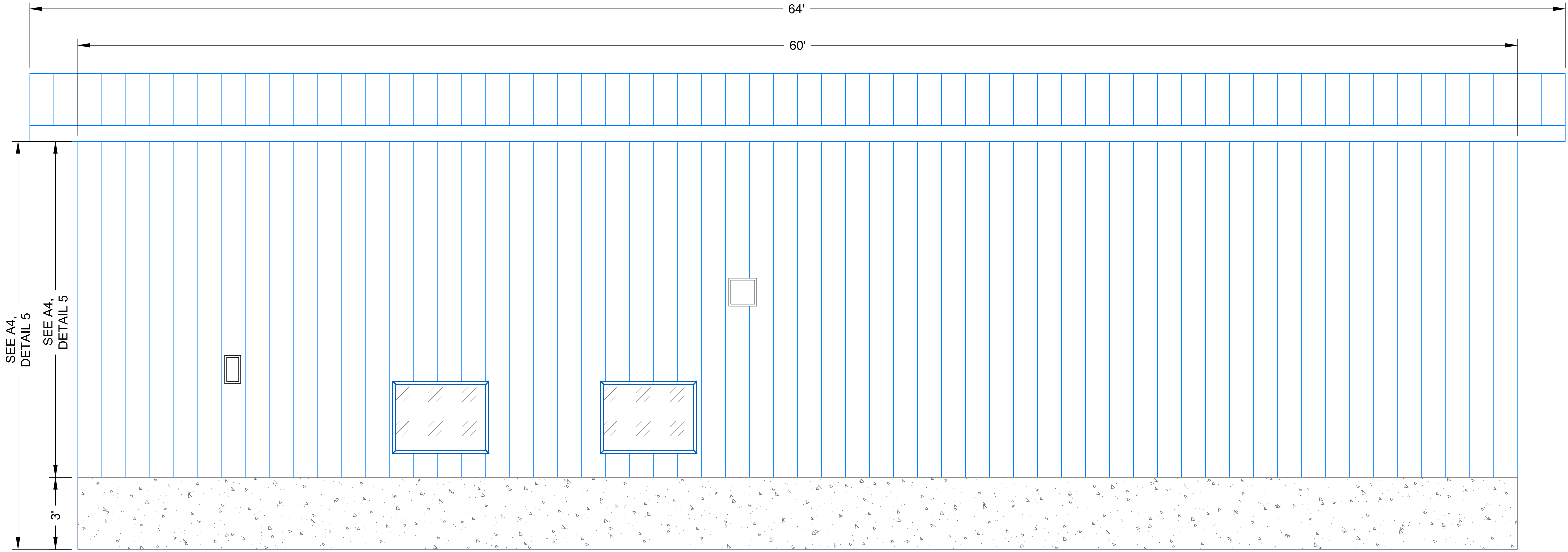
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15460 NW 48th St.  
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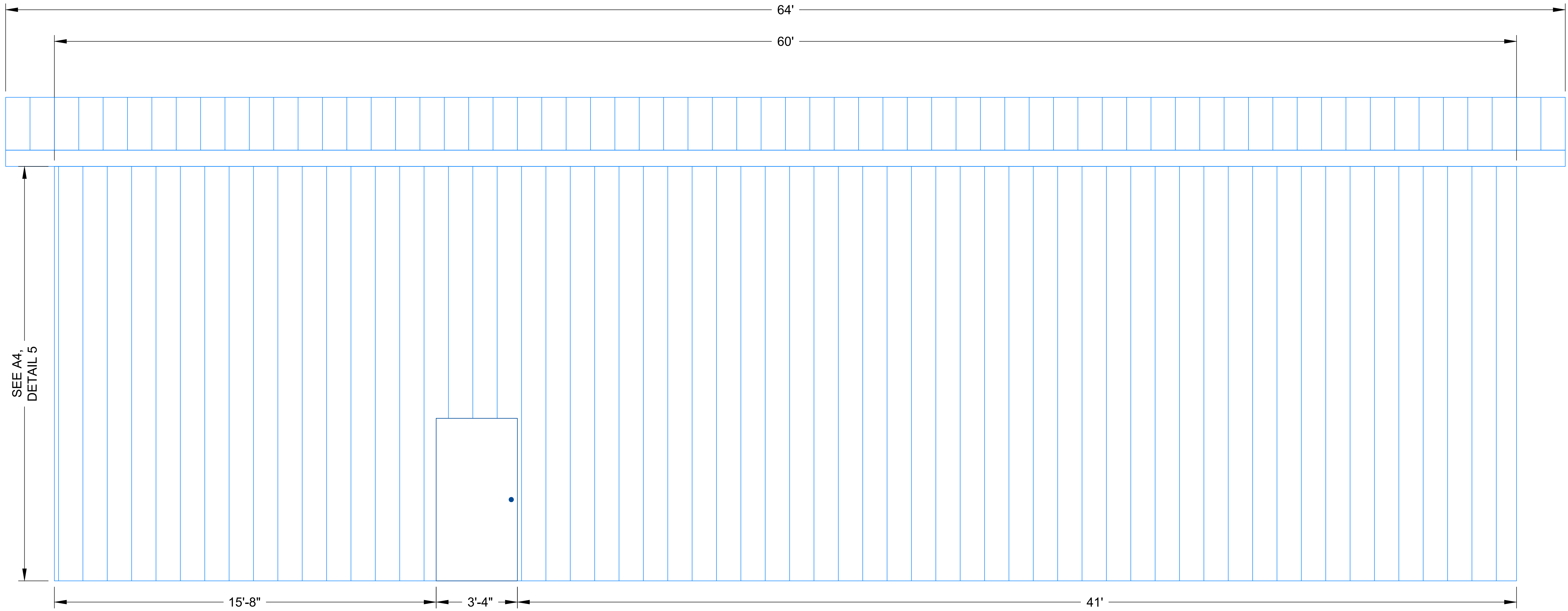


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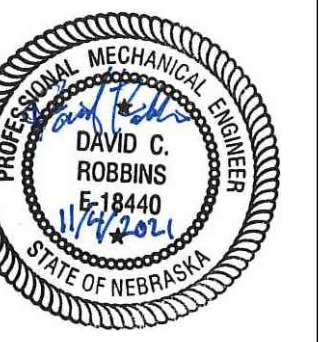




3 NORTH EXTERIOR ELEVATION



4 SOUTH EXTERIOR ELEVATION



Maintenance Building  
Exterior Elevations

Spring Creek Prairie Audubon Center

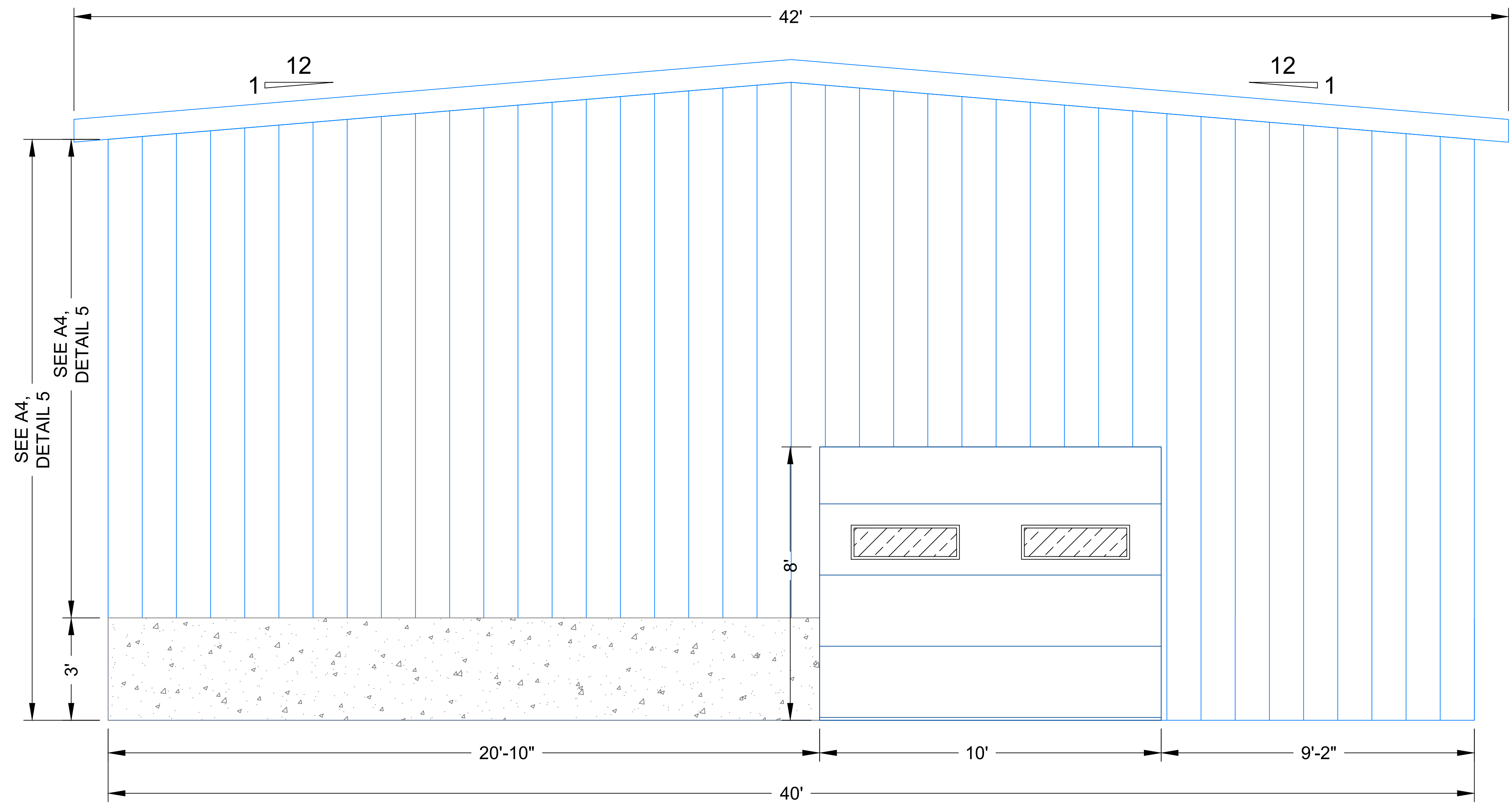
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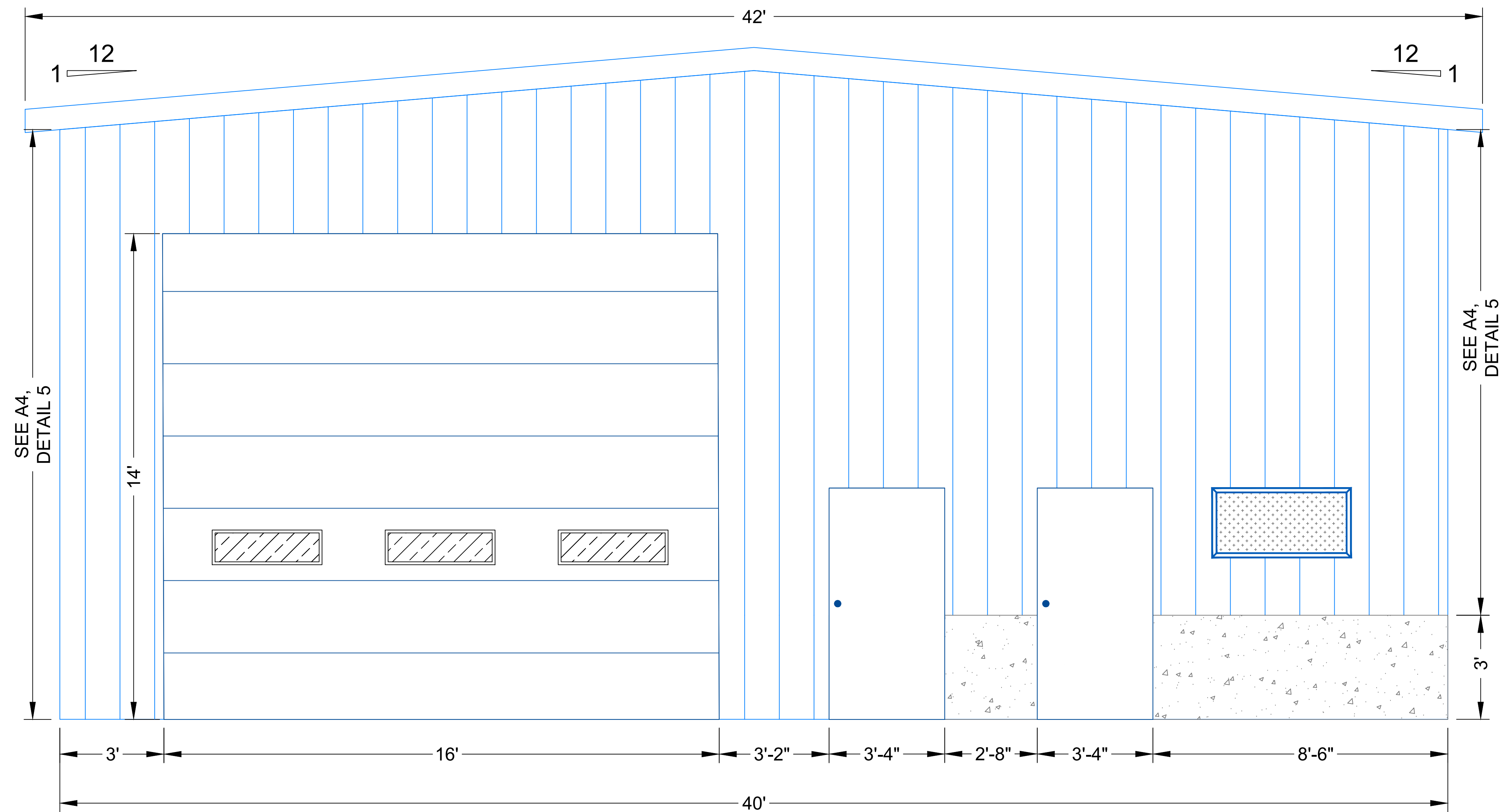


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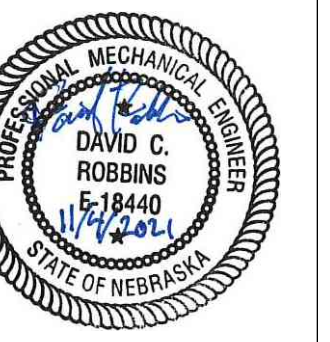




1 WEST ENDWALL EXTERIOR ELEVATION



2 EAST ENDWALL EXTERIOR ELEVATION



Maintenance Building  
Exterior Elevations

Spring Creek Prairie Audubon Center  
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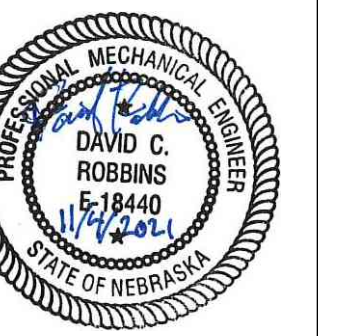
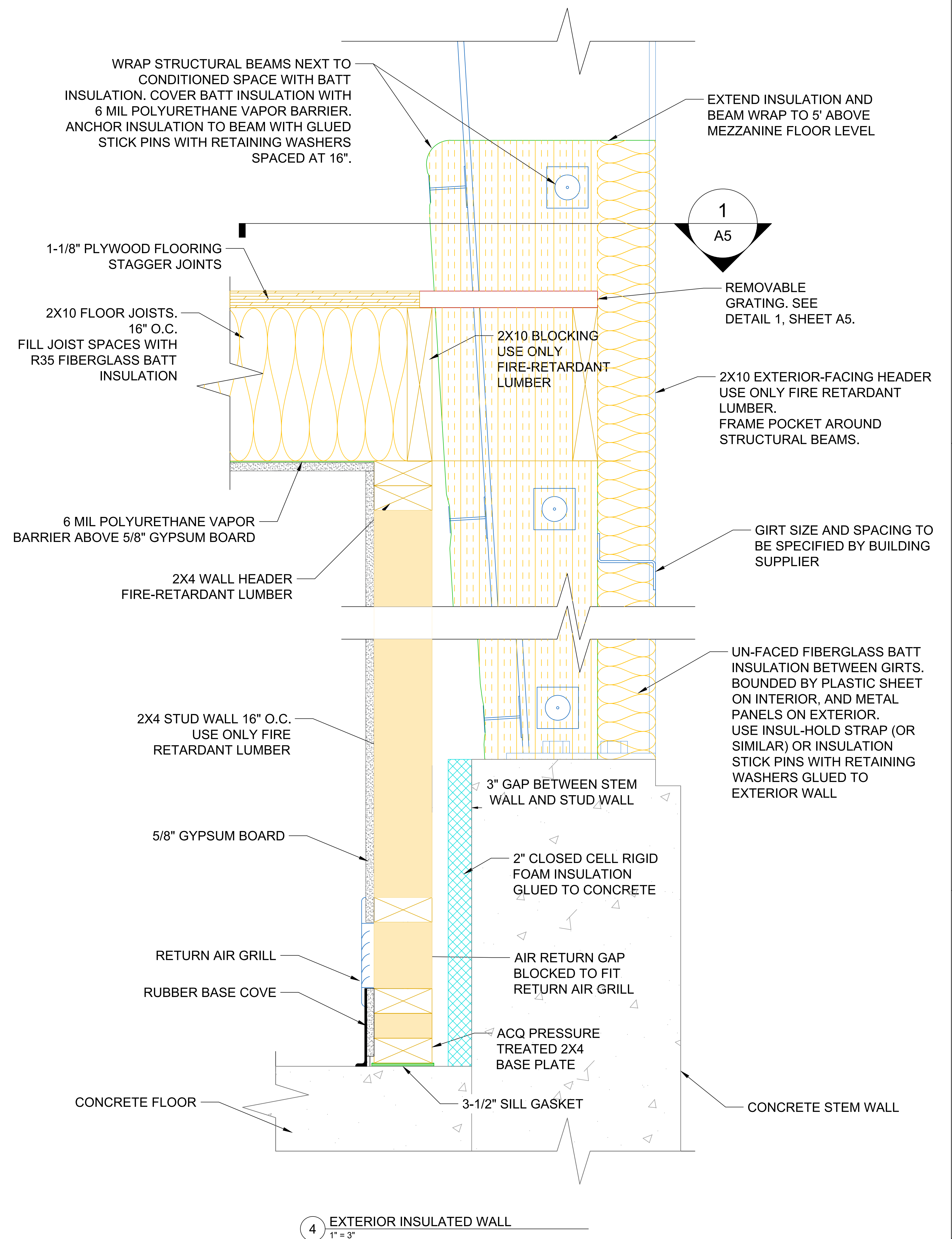
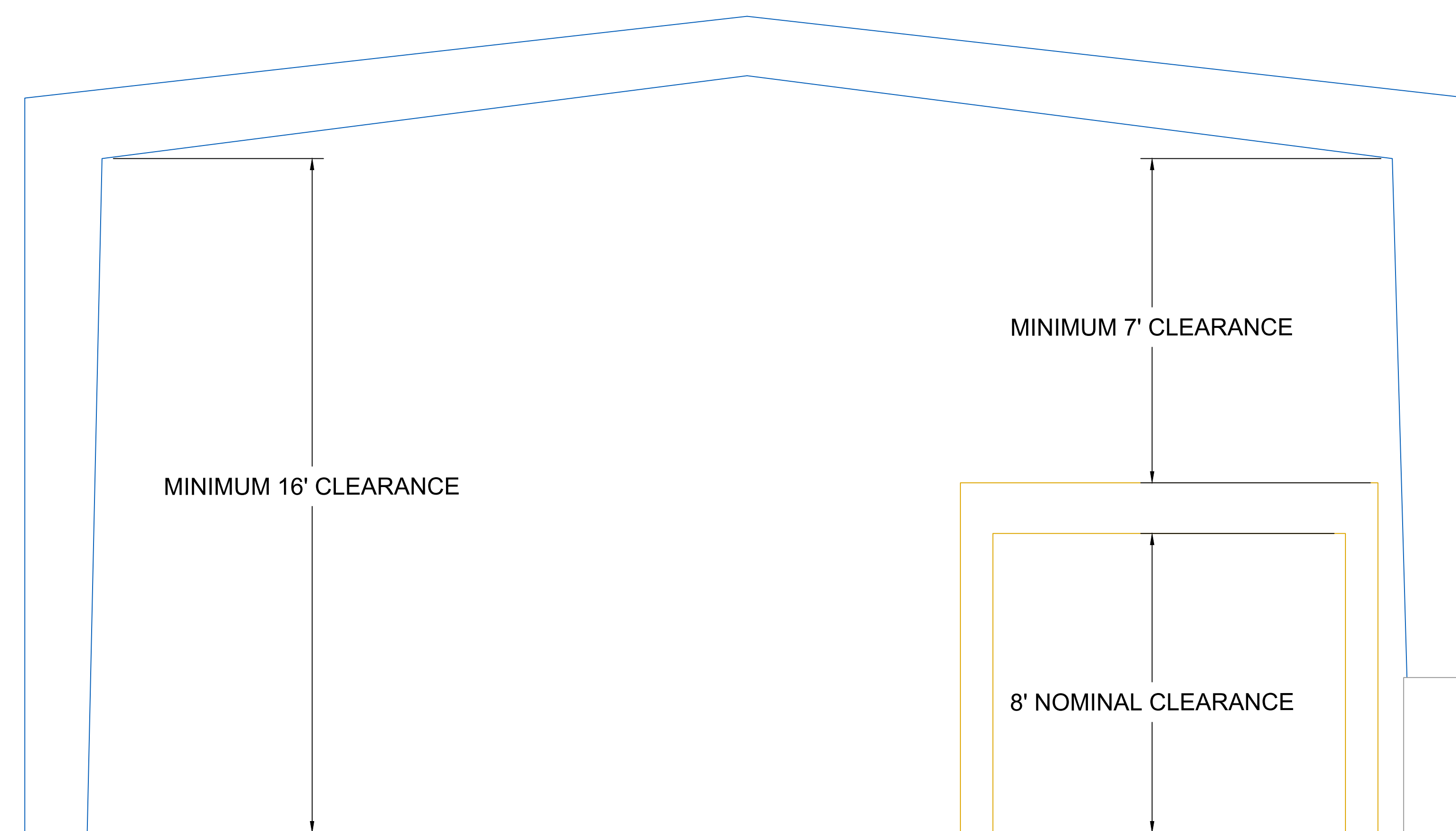
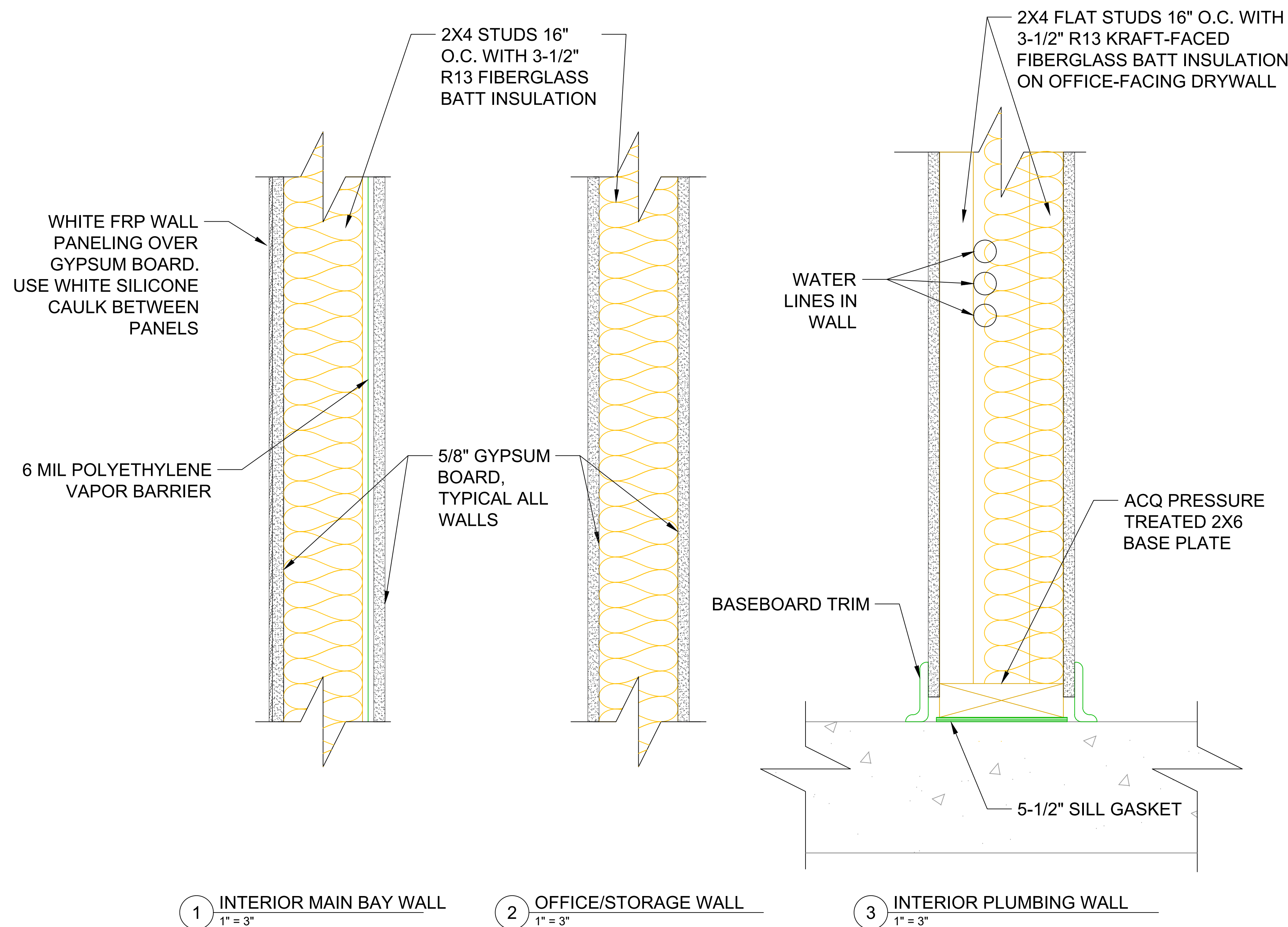
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A3





Maintenance Building  
Framing and Wall Details

Spring Creek Prairie Audubon Center

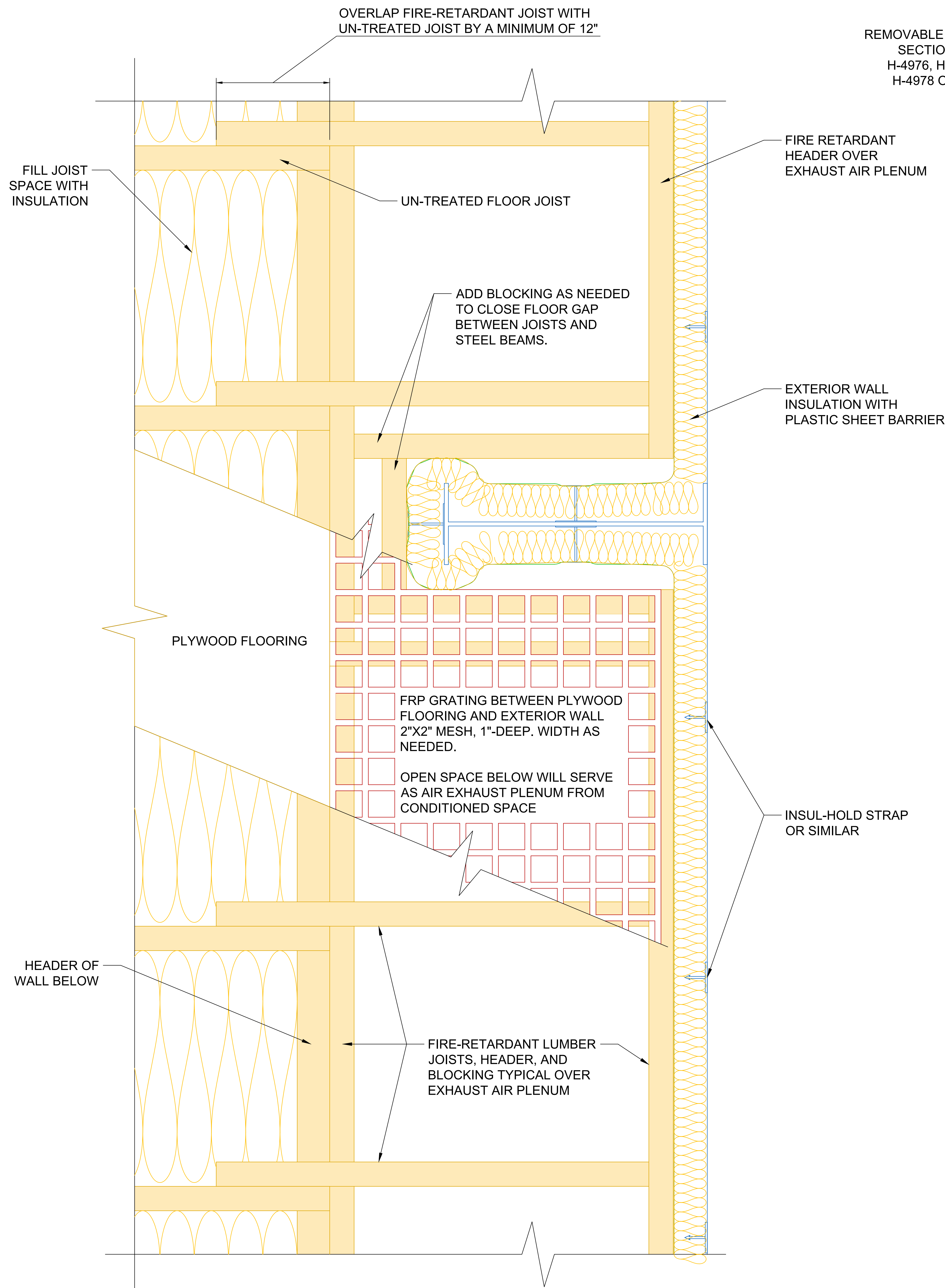
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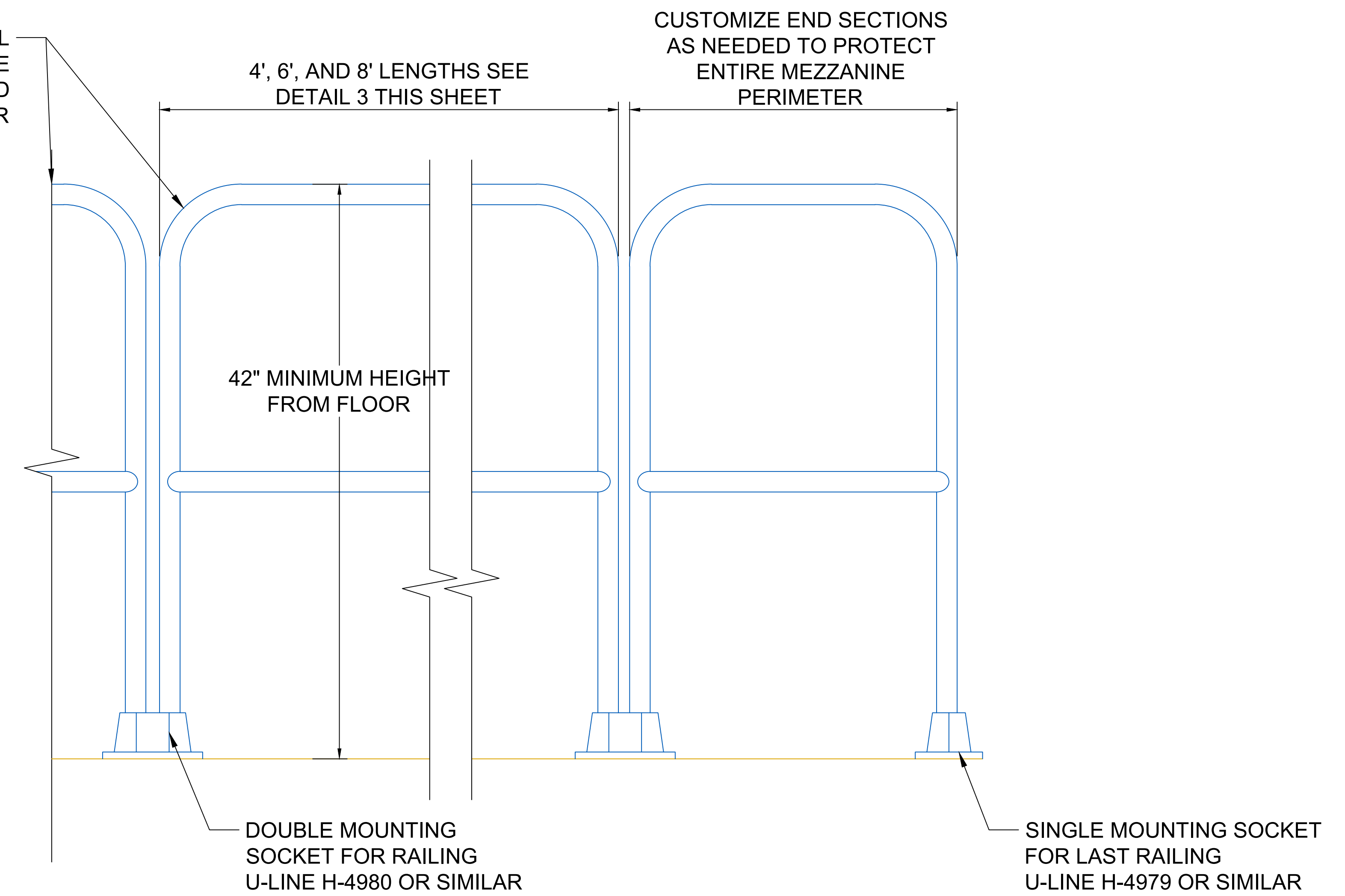
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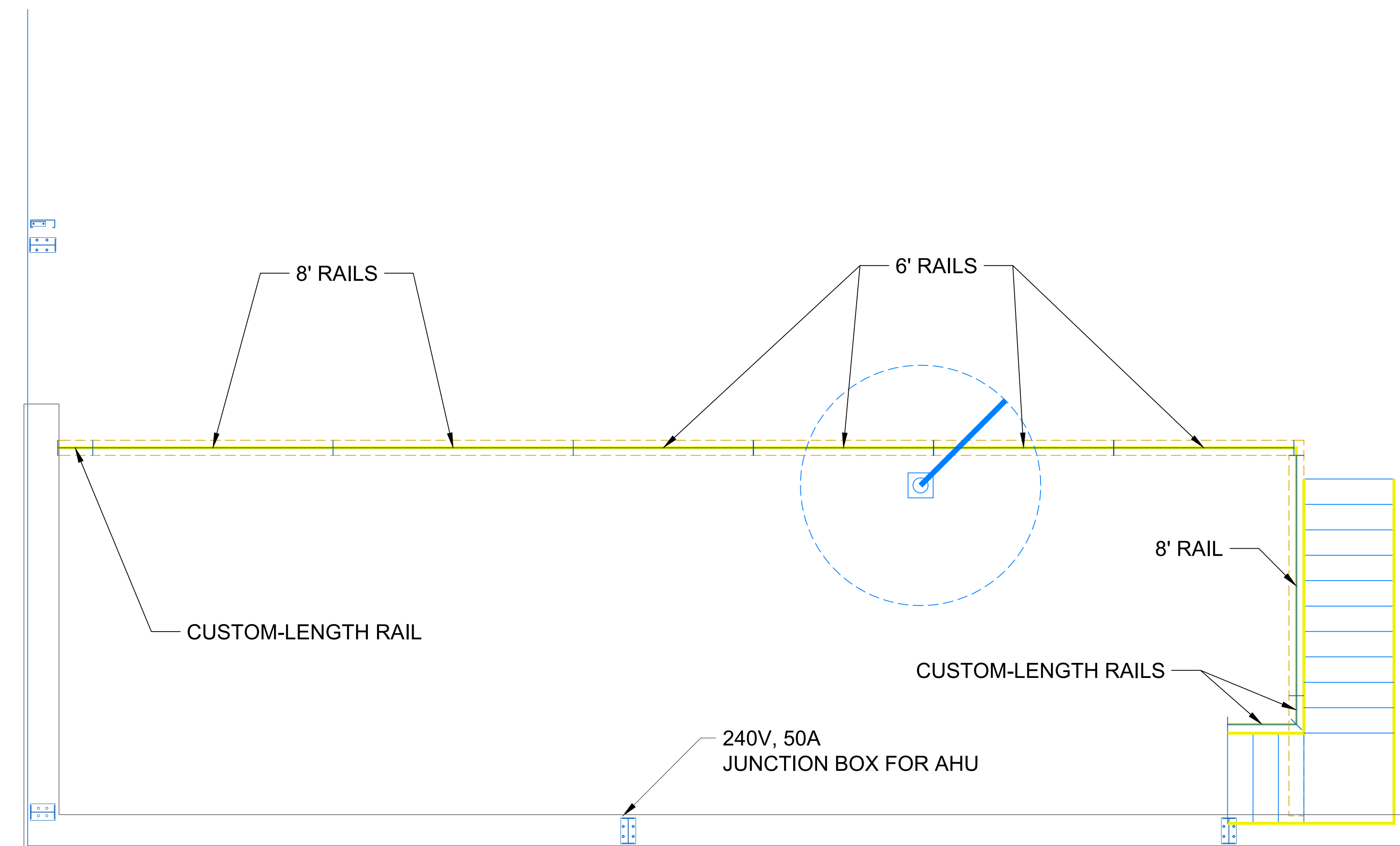


1 JOIST FRAMING AND FLOORING OVER EXHAUST AIR PLENUM  
1" = 4"

REMOVABLE HANDRAIL SECTIONS. U-LINE H-4976, H-4977, AND H-4978 OR SIMILAR



2 MEZZANINE HAND RAIL COMPONENTS  
2" = 1'

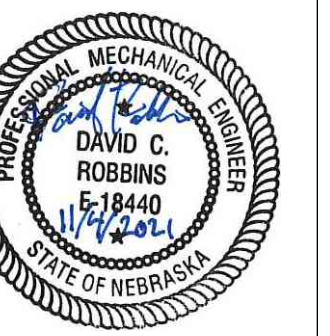


3 MEZZANINE HAND RAIL PLAN  
N.T.S.

Date Printed: 11/4/21

Rev.

Date



Maintenance Building  
Framing Details

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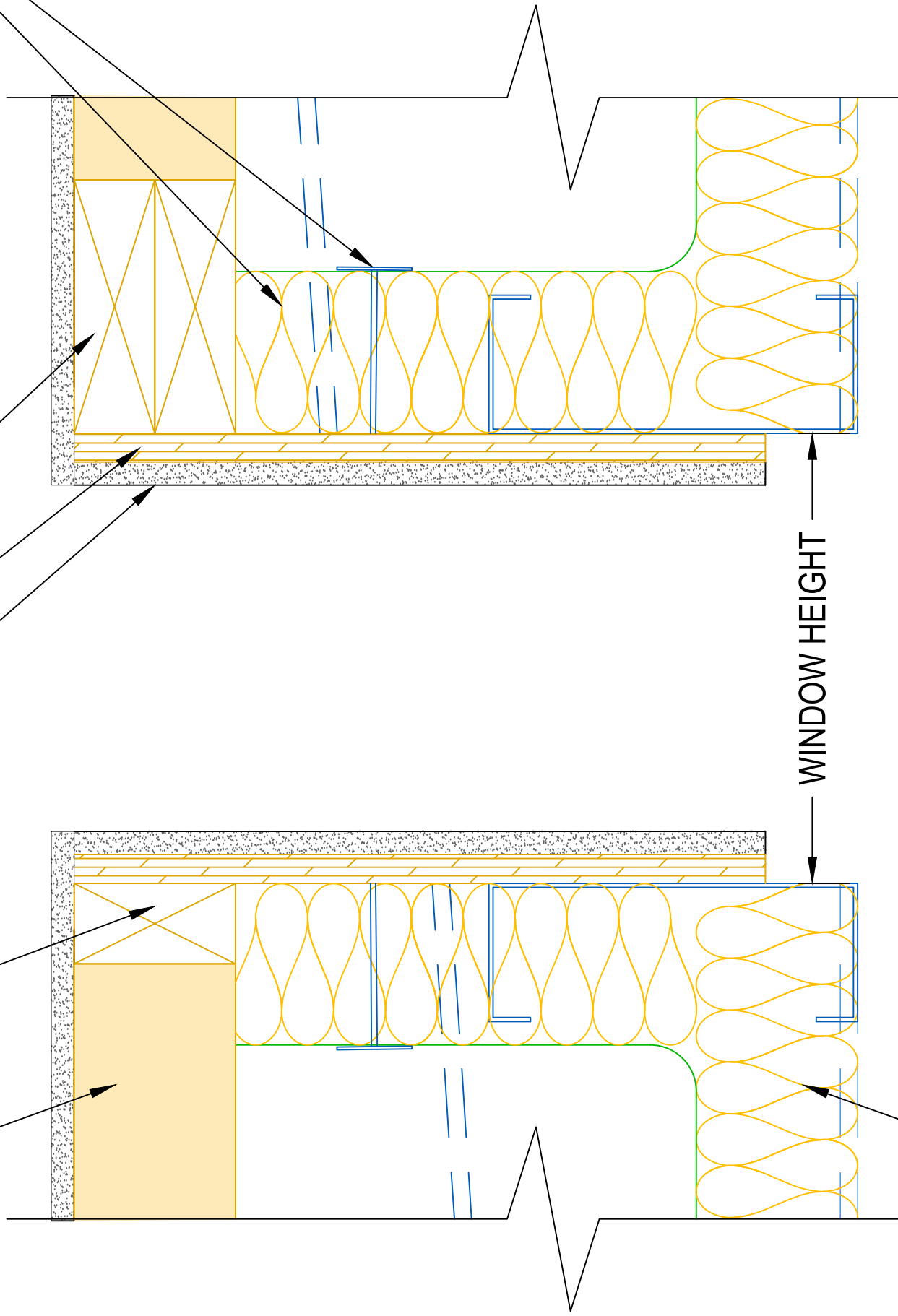
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WRAP WINDOW COMPARTMENT NEXT TO  
CONDITIONED SPACE WITH BATT  
INSULATION. COVER BATT INSULATION WITH  
6 MIL POLYURETHANE VAPOR BARRIER.  
ANCHOR INSULATION TO OSB WITH GLUED  
STICK PINS WITH RETAINING WASHERS  
SPACED AT 16".

2X6 WINDOW HEADER  
FIRE-RETARDANT LUMBER  
5/8" OSB (TYP.)  
5/8" GYPSUM BOARD (TYP.)

2X4 WINDOW SILL  
FIRE-RETARDANT LUMBER  
JACK BEAM  
FIRE-RETARDANT  
LUMBER (TYP.)



PRE-ASSEMBLED WINDOW  
WITH DOUBLE PANE GLASS

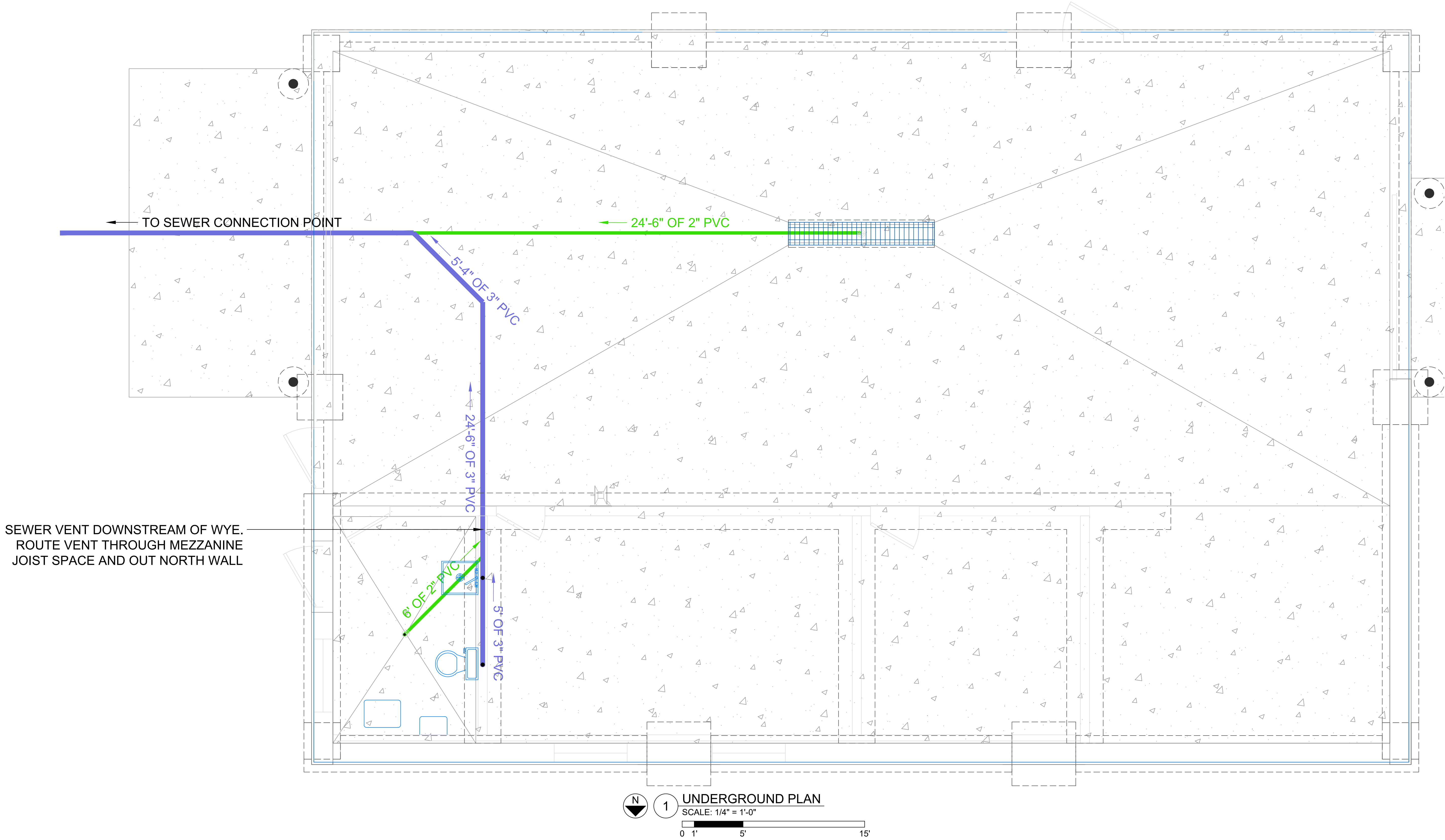
UN-FACED FIBERGLASS BATT  
INSULATION BETWEEN GIRTS.  
BOUNDED BY PLASTIC SHEET  
ON INTERIOR, AND METAL  
PANELS ON EXTERIOR.  
USE INSUL-HOLD STRAP (OR  
SIMILAR) OR INSULATION  
STICK PINS WITH RETAINING  
WASHERS GLUED TO  
EXTERIOR WALL





| LEGEND                                                                              |             |
|-------------------------------------------------------------------------------------|-------------|
| SYMBOL                                                                              | DESCRIPTION |
|  | 2" PVC PIPE |
|  | 3" PVC PIPE |

• = APPROX. FLOOR DRAIN LOCATION



Maintenance Building  
Underground Plan

Spring Creek Prairie Audubon Center

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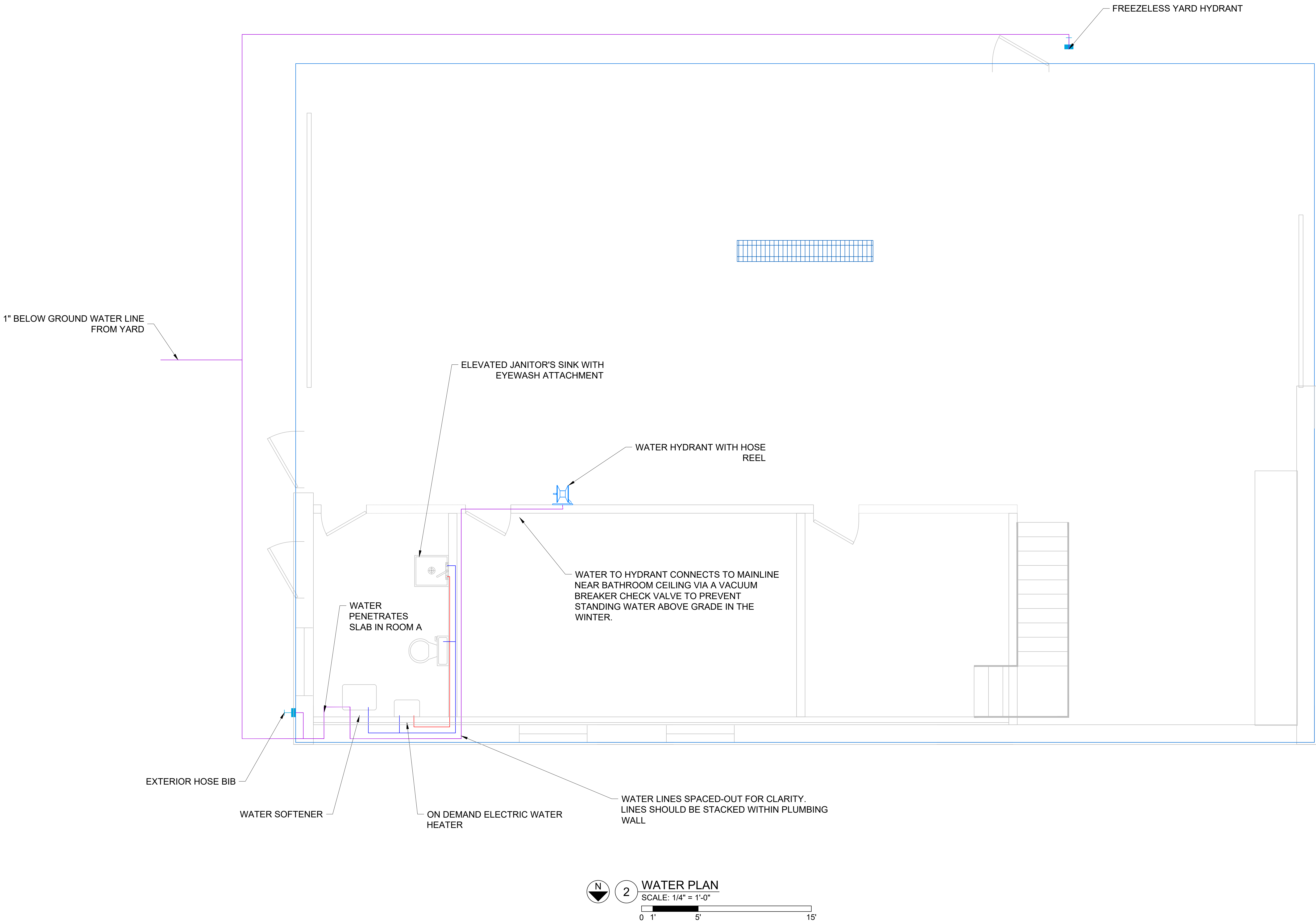


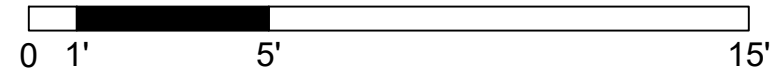
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|                        |      |
|------------------------|------|
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| Rev.                   | Date |
|                        |      |
|                        |      |



| WATER SCHEDULE                                                                      |                           |
|-------------------------------------------------------------------------------------|---------------------------|
| SYMBOL                                                                              | DESCRIPTION               |
|  | 1" WATER LINE FROM WELL   |
|  | WASH-DOWN HYDRANT         |
|  | HOSE BIB                  |
|  | 3/4" COLD HARD WATER LINE |
|  | 3/4" SOFT COLD WATER LINE |
|  | 3/4" SOFT HARD WATER LINE |
|                                                                                     |                           |
|                                                                                     |                           |





2

WATER PLAN

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



Maintenance Building  
Water Plan

Spring Creek Prairie Audubon Center  
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Agri-Services & Engineering, Inc.

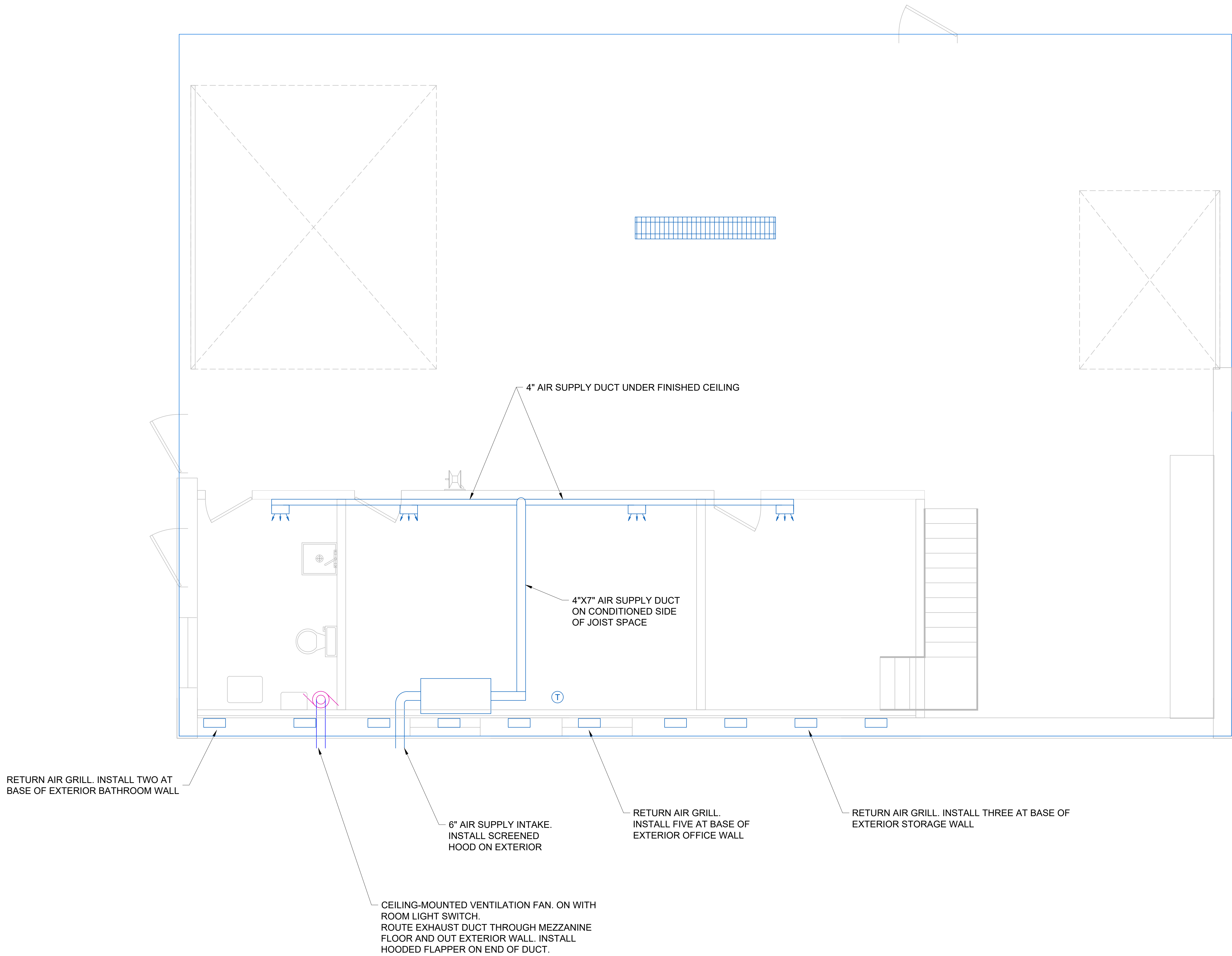
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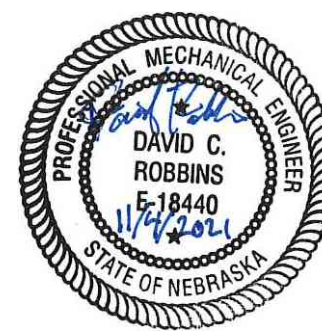


| MECHANICAL SCHEDULE                                                                 |                                                                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| SYMBOL                                                                              | DESCRIPTION                                                                                                                         |
|  | AIR SUPPLY DIFFUSER WITH ADJUSTABLE DAMPER                                                                                          |
|  | EXHAUST FAN                                                                                                                         |
|  | THERMOSTAT                                                                                                                          |
| AHU                                                                                 | AIR HANDLING UNIT WITH: <ul style="list-style-type: none"><li>- 1.5 TON COOLING COIL</li><li>- 3 KW ELECTRIC HEATING COIL</li></ul> |



1

MECHANICAL PLAN



Maintenance Building  
Mechanical Plan

Spring Creek Prairie Audubon Center

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M1

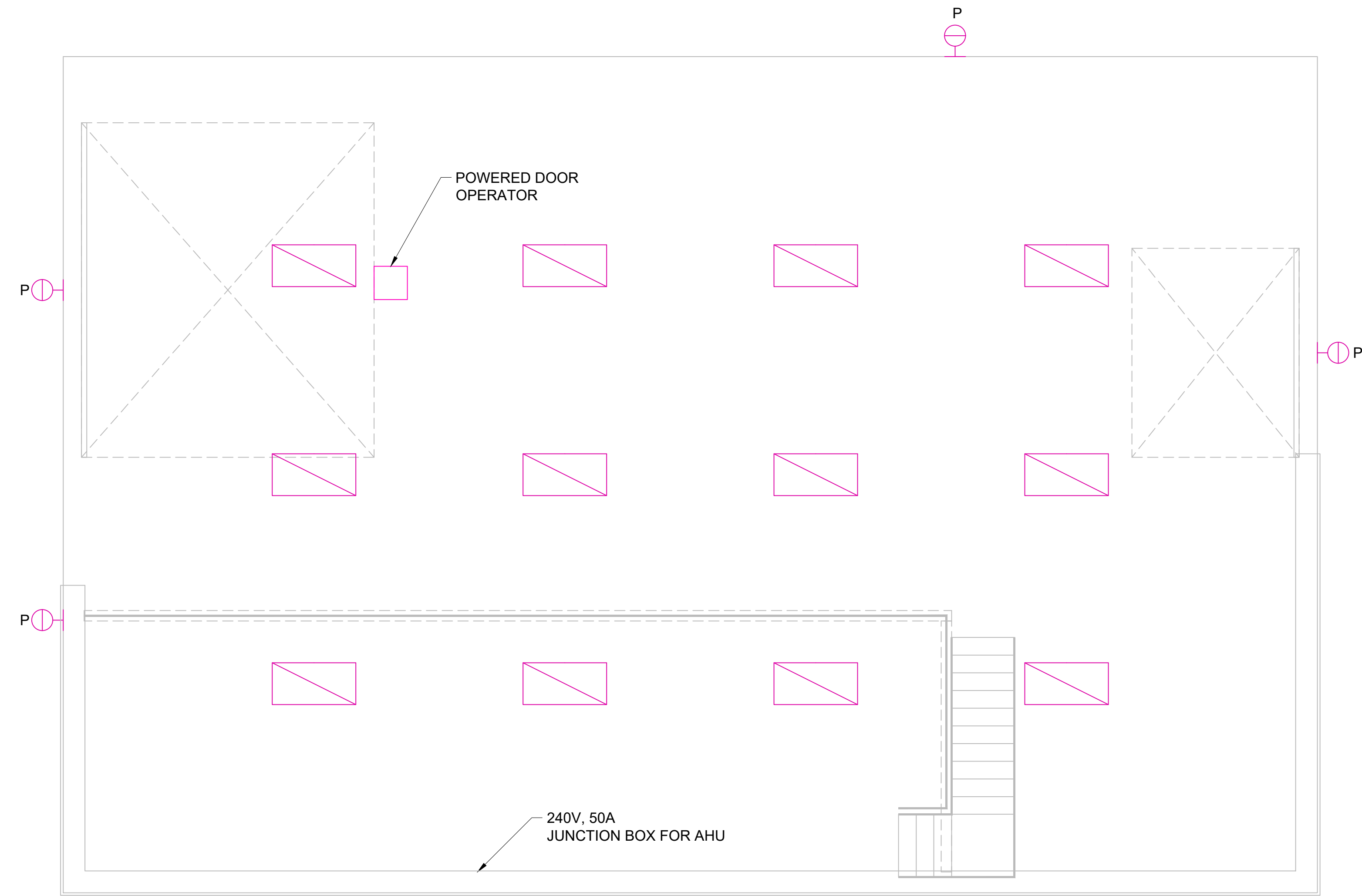
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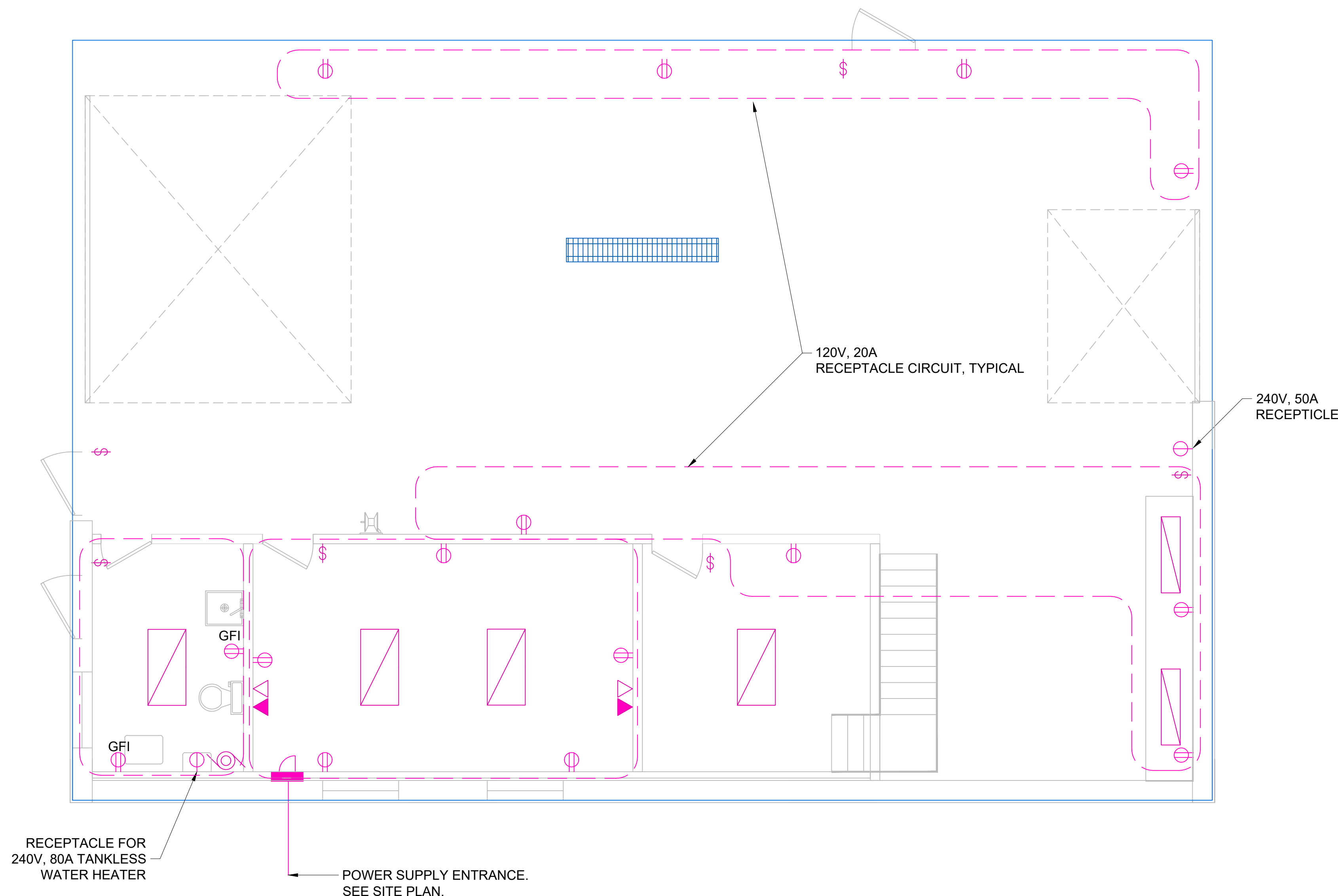
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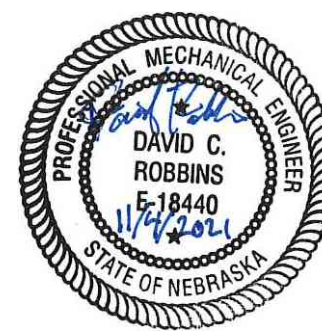
|                                                                                     | ELECTRICAL SCHEDULE                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------|
| SYMBOL                                                                              | DESCRIPTION                                            |
|  | SURFACE MOUNT BRANCH CIRCUIT PANELBOARD                |
|  | LIGHT SWITCH                                           |
|  | TELEPHONE JACK                                         |
|  | LAN PORT                                               |
|  | LED WRAPAROUND LIGHT                                   |
|  | LED HIGH BAY LIGHT                                     |
|  | PHOTOCELL-OPERATED LED WALL PACK                       |
|  | EXHAUST FAN                                            |
|  | DUPLEX RECEPTACLE<br>20A, 125V, UNLESS NOTED OTHERWISE |
|  | SPECIALIZED EQUIPMENT OUTLET<br>240V, 1-PHASE          |
|  | WEATHERPROOF                                           |
|  | GROUND FAULT CIRCUIT INTERRUPTER                       |



1 ELECTRICAL PLAN SECOND FLOOR  
SCALE: 1/4" = 1'-0"  
0 1' 5' 15'



1 ELECTRICAL PLAN MAIN FLOOR  
SCALE: 1/4" = 1'-0"  
0 1' 5' 15'



Maintenance Building  
Electrical Plan

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