

# Olsen's Grain, Storage Building

Chino Valley, Arizona

## Vicinity Map



## Project Information

<b>CLIENT:</b>	Olsen's Grain 344 S. State Rt. 89 Chino Valley, AZ 86323	Contact: Mike Olsen 714-342-8861 molsen@olsensgrain.com
<b>PREPARED BY:</b>	W. Alan Kenson & Assoc., P.C. P.O. Box 11593 Prescott, AZ 86304	Contact: Alan Kenson 928-443-5812 wakaarchitect@gmail.com
<b>CONTRACTOR:</b>	Kenson Construction 6135 Corsair Ave. Prescott, AZ 86301	PH: 928-445-5192 Contact: Alan Kenson wakaarchitect@gmail.com
<b>JOBSITE ADDRESS:</b>	344 S. State Rt. 89 Chino Valley, AZ 86323	
<b>PARCEL NUMBER:</b>	306-29-029C	
<b>ZONING:</b>	CL/AR-5	
<b>CONST. TYPE:</b>	II-B	
<b>OCCUPANCY:</b>	S-1 Storage	
<b>PROPOSED BUILDING:</b>	4,800 S.F.	
<b>LOT ARA:</b>	9.88 Acres	
<b>BUILDING CODES:</b>	2018 International Building Code 2018 International Fire Code 2018 International Plumbing Code 2018 International Mechanical Code 2018 International Fuel Gas Code 2017 National Electrical Code 2018 International Energy Conservation Code	
<b>PARKING REQUIREMENTS:</b>	Parking is existing and adequate	

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## Graphic Standards

EXISTING DOOR	NORTH ARROW INDICATOR
PROPOSED DOOR	DETAIL DESIGNATOR
BUILDING SECTION DESIGNATOR	GRID LINE DESIGNATOR
REVISION DESIGNATOR	ELEVATION DESIGNATOR
DESCRIPTIVE NOTE DESIGNATOR	ROOM NUMBER / FINISH DESIGNATOR
DOOR NUMBER DESIGNATOR	DOOR TYPE DESIGNATOR
WINDOW TYPE DESIGNATOR	WALL TYPE DESIGNATOR

## Project Description

OLSEN'S GRAIN INTENDS TO BUILD 4,800 S.F. STEEL BUILDING TO BE USED FOR STORAGE. THERE WILL BE LIGHTING AND MINOR ELECTRICAL WORK. NO HVAC OR PLUMBING WILL BE REQUIRED. THE BUILDING STRUCTURE SHALL BE CONSTRUCTED OF CUSTOM STEEL BEAMS / COLUMNS AND COLD ROLLED METAL BUILDING COMPONENTS. THE BUILDING WILL REQUIRE A ±4'-6" HIGH CONCRETE RETAINING WALL ON THE NORTH AND WEST SIDES.

### Architect:

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**ARCHITECTURE & PLANNING**



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Olsen's Grain Storage Building  
344 S. State Route 89  
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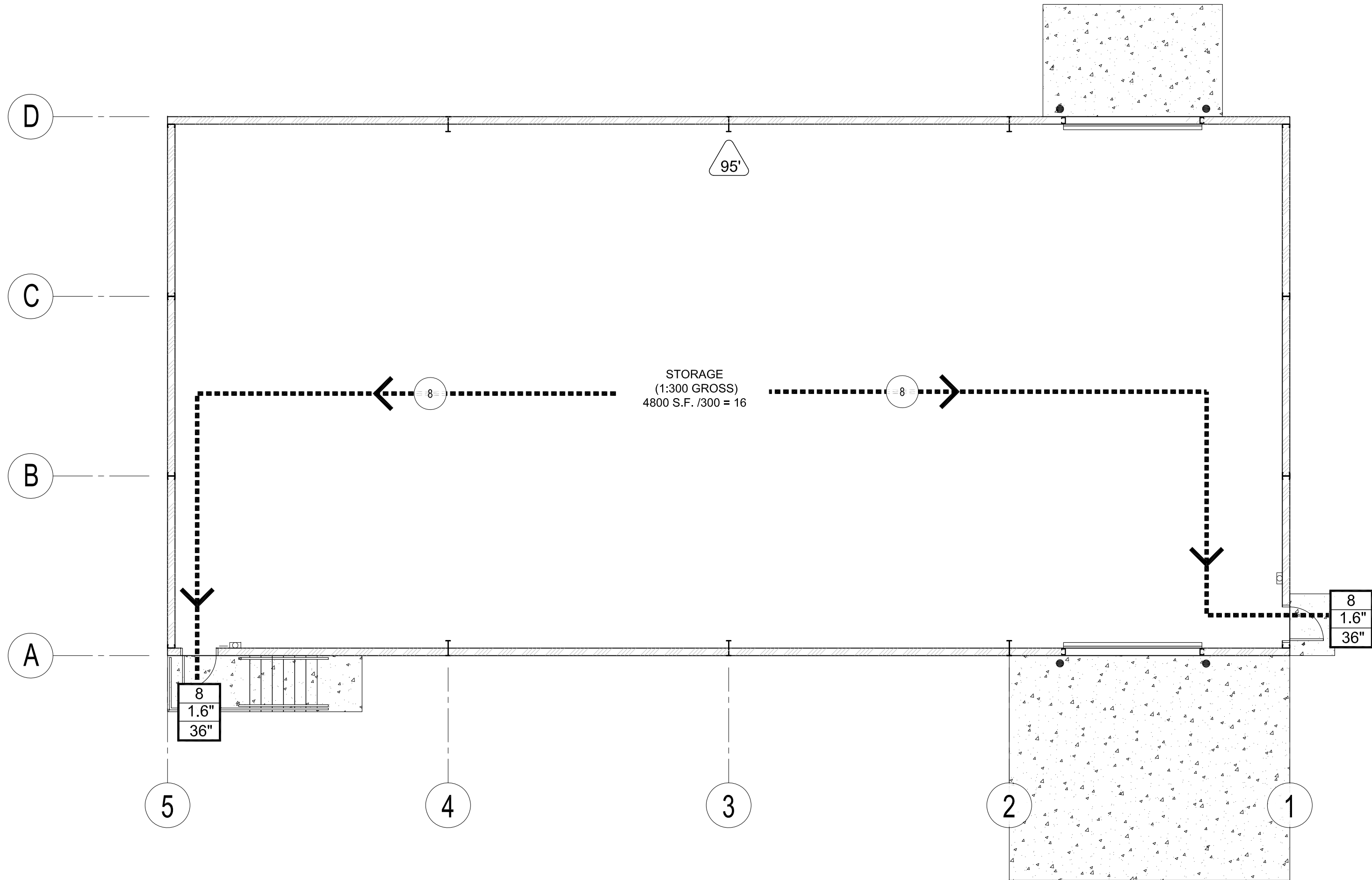
**DRAWING:** Cover Sheet  
**PROJECT:**  
**APN:** 306-29-029C

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CHECKED BY W.A.K.
DATE May 20th, 2022
JOB NO. 785
SHEET

**CS1**

May 24, 2022 - 3:45pm

**A1** Occupancy / Egress Floor Plan



**Egress Legend:**

----->	EXIT ACCESS
(A)	ACCESSORY USE (NO OCCUPANCY)
XX	ROOM OCCUPANCY LOAD
XX	SUBTOTAL OCCUPANCY LOAD
XX XX XX	OCCUPANCY TOTAL REQUIRED EXIT WIDTH (FACTOR = 0.2) PROVIDED EXIT WIDTH
#	WORST CASE TRAVEL DISTANCE
FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
STORAGE	300 GROSS

**Occupant load**

NOTE:  
GROSS SQUARE FOOTAGE LISTED BELOW  
DOES NOT INCLUDE ACCESSORY AREAS.

STORAGE: 4800 SQ. FT. 16 OCCUPANTS

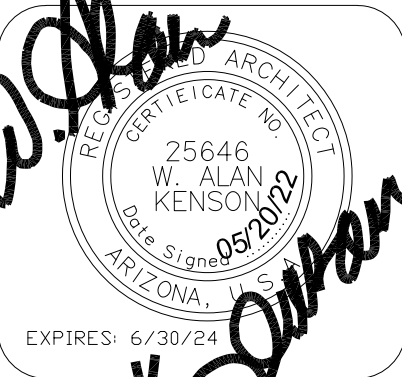
- NOTE:
- PROVIDE A 6"x9" BLUE TACTILE 'EXIT' SIGN AS MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980)' OR EQUAL COMPLYING WITH ICCA117.1 AND IBC 1011.3 ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. SIGN SHALL BE MOUNTED 60" A.F.F. TO THE CENTER OF THE SIGN.

**Accessibility Notes**

- ACCESS TO THESE FACILITIES SHALL BE AT PRIMARY ENTRANCES.
- THE SLOPE OF PUBLIC WALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 2%.
- WALKING SURFACES GREATER THAN 2% SHALL BE SLIP RESISTANT.
- PROVIDE A 44"x60" MINIMUM LANDING ON THE STRIKE SIDE OF THE ENTRANCE DOOR WITH 44" MINIMUM WIDTH IN THE DIRECTION OF TRAVEL.
- WALLS SHALL EXTEND 18" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARDS THE OCCUPANT.
- RAMPS SHALL HAVE A NON-SLIP SURFACE.
- RAMPS SHALL BE A MINIMUM OF 36" WIDE.
- EVERY REQUIRED EXIT DOORWAY SHALL BE SIZED FOR A DOOR NOT LESS THAN 36" WIDE BY NOT LESS THAN 6'-8" HIGH CAPABLE OF OPENING 90 DEGREES AND MOUNTED SO THE CLEAR WIDTH OF THE EXIT WAY IS 32" MINIMUM.
- THRESHOLDS TO BE A MAXIMUM OF 1/4" ABOVE ADJACENT FLOOR FINISH. ONE-HALF INCH THRESHOLD MAY BE USED IF BEVELED PER A.D.A. STANDARDS.
- MAXIMUM EFFORT TO OPERATE A DOOR SHALL NOT EXCEED 5 POUNDS.
- THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE.
- PROVIDE LEVER TYPE HARDWARE, PANIC BARS, PUSH AND PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. (30" TO 44" A.F.F.)

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**ARCHITECTURE & PLANNING**

**DRAWING:** Occupancy / Egress Plans and Code Summary

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**CS2**

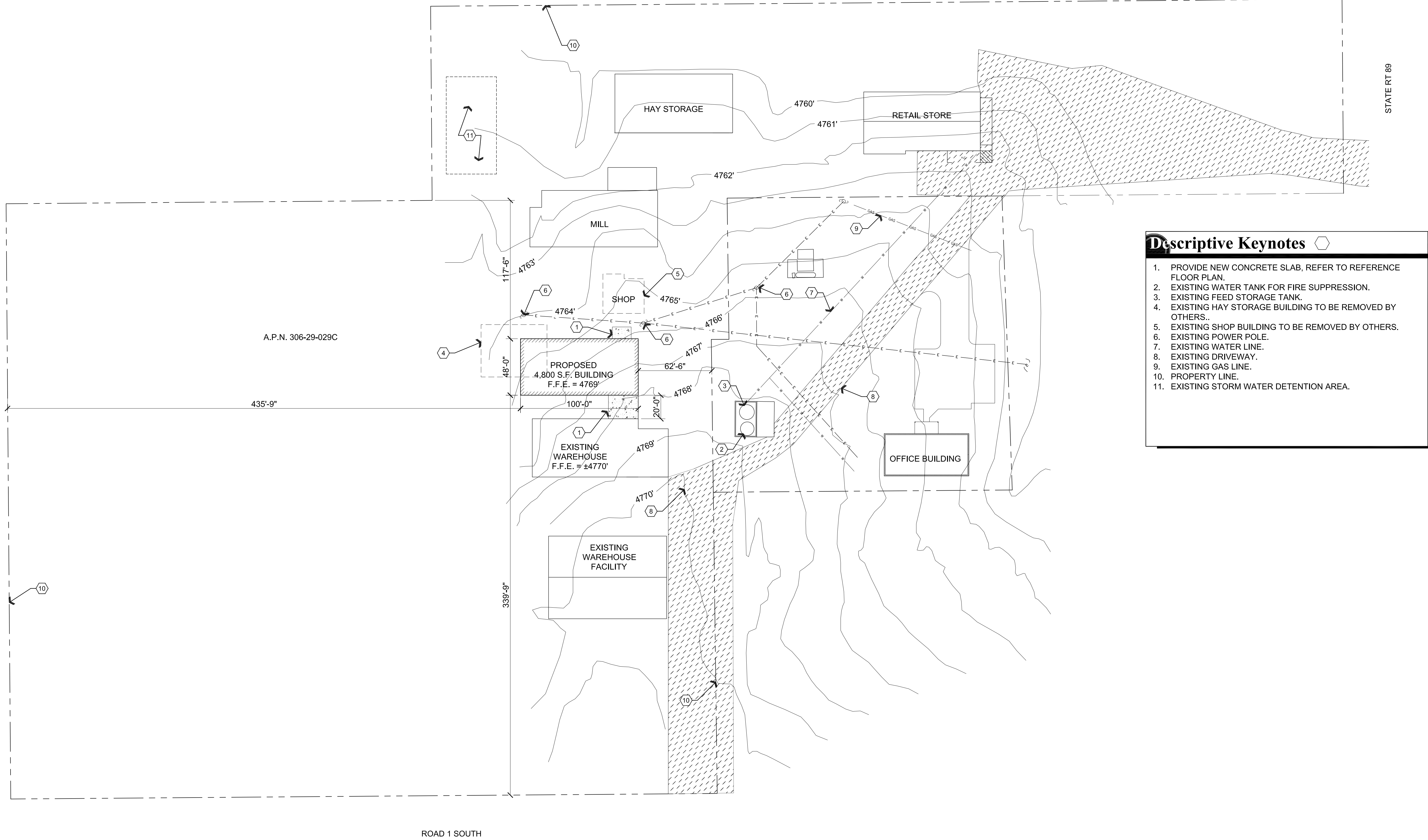
Scale: 1/8"=1'-0"





May 24, 2022 - 3:45pm

**A1** Site Plan



**Descriptive Keynotes**

1. PROVIDE NEW CONCRETE SLAB, REFER TO REFERENCE FLOOR PLAN.

2. EXISTING WATER TANK FOR FIRE SUPPRESSION.

3. EXISTING FEED STORAGE TANK.

4. EXISTING HAY STORAGE BUILDING TO BE REMOVED BY OTHERS..

5. EXISTING SHOP BUILDING TO BE REMOVED BY OTHERS.

6. EXISTING POWER POLE.

7. EXISTING WATER LINE.

8. EXISTING DRIVEWAY.

9. EXISTING GAS LINE.

10. PROPERTY LINE.

11. EXISTING STORM WATER DETENTION AREA.

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**ARCHITECTURE & PLANNING**

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**A1.0**

Scale: 1"=40'-0"

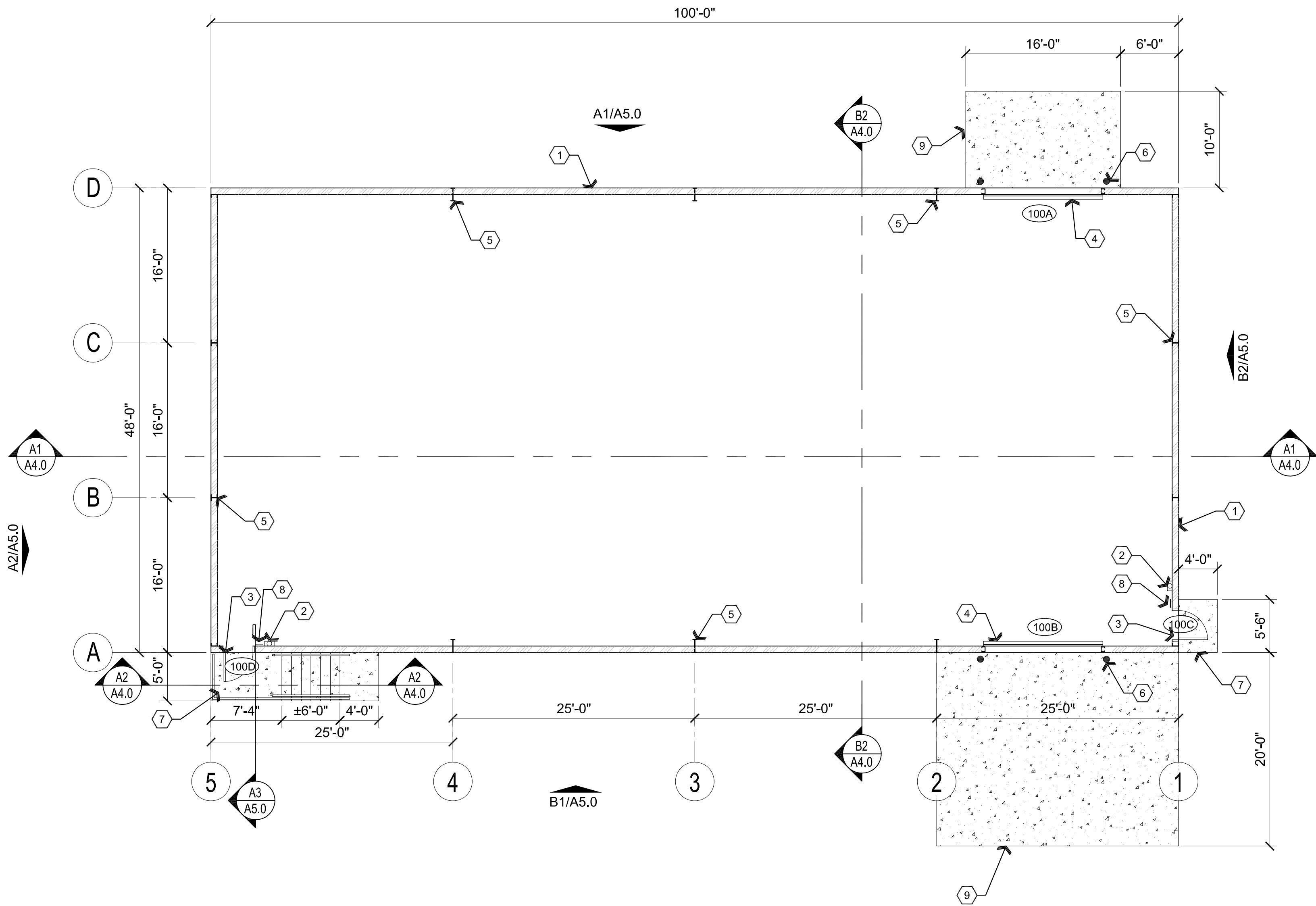


May 24, 2022 - 3:47pm



Reference / Dimension / Wall Types Floor Plan

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



Descriptive Keynotes

1. PROVIDE EXTERIOR WALL, REFER TO WALL TYPES LEGEND FOR TYPE OF CONSTRUCTION.
2. PROVIDE TYPE 2A10BC FIRE EXTINGUISHER, SURFACE MOUNTED.
3. PROVIDE DOOR, REFER TO DOOR SCHEDULE, TYPICAL.
4. PROVIDE ROLL-UP DOOR, REFER TO DOOR SCHEDULE.
5. PROVIDE STEEL COLUMN, REFER TO STRUCTURAL PLANS, TYPICAL.
6. PROVIDE 6'-0" LONG 4" DIAMETER, CONCRETE FILLED, PROTECTIVE STEEL BOLLARDS, EMBEDDED 2'-0" BELOW GRADE INTO CONCRETE FOOTING, TYPICAL AT OVERHEAD DOOR.
7. PROVIDE 4" THICK CONCRETE LANDING OVER 4" COMPACTED ABC.
8. PROVIDE A 6"x9" BLUE TACTILE 'EXIT' SIGN AS MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980)' OR EQUAL COMPLYING WITH ICCA117.1 AND IBC 1011.3 ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. SIGN SHALL BE MOUNTED 60" A.F.F. TO THE CENTER OF THE SIGN.
9. PROVIDE 5" THICK CONCRETE SLAB W/ #4s @ 3'-0" O.C. EACH WAY OVER COMPACTED ABC.
10. 1 1/2" DIAMETER PAINTED SCHEDULE 40 STEEL PIPE HANDRAIL EACH SIDE OF STAIRS, REFER TO DETAIL A2/A4.0.

Wall Types Legend

- EXTERIOR METAL BUILDING WALL: PROVIDE EXTERIOR METAL BUILDING SIDING, 26 GAUGE, 'PBR' PANELS OVER 8" HORIZONTAL GIRTS BETWEEN STEEL COLUMNS.

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**ARCHITECTURE & PLANNING**

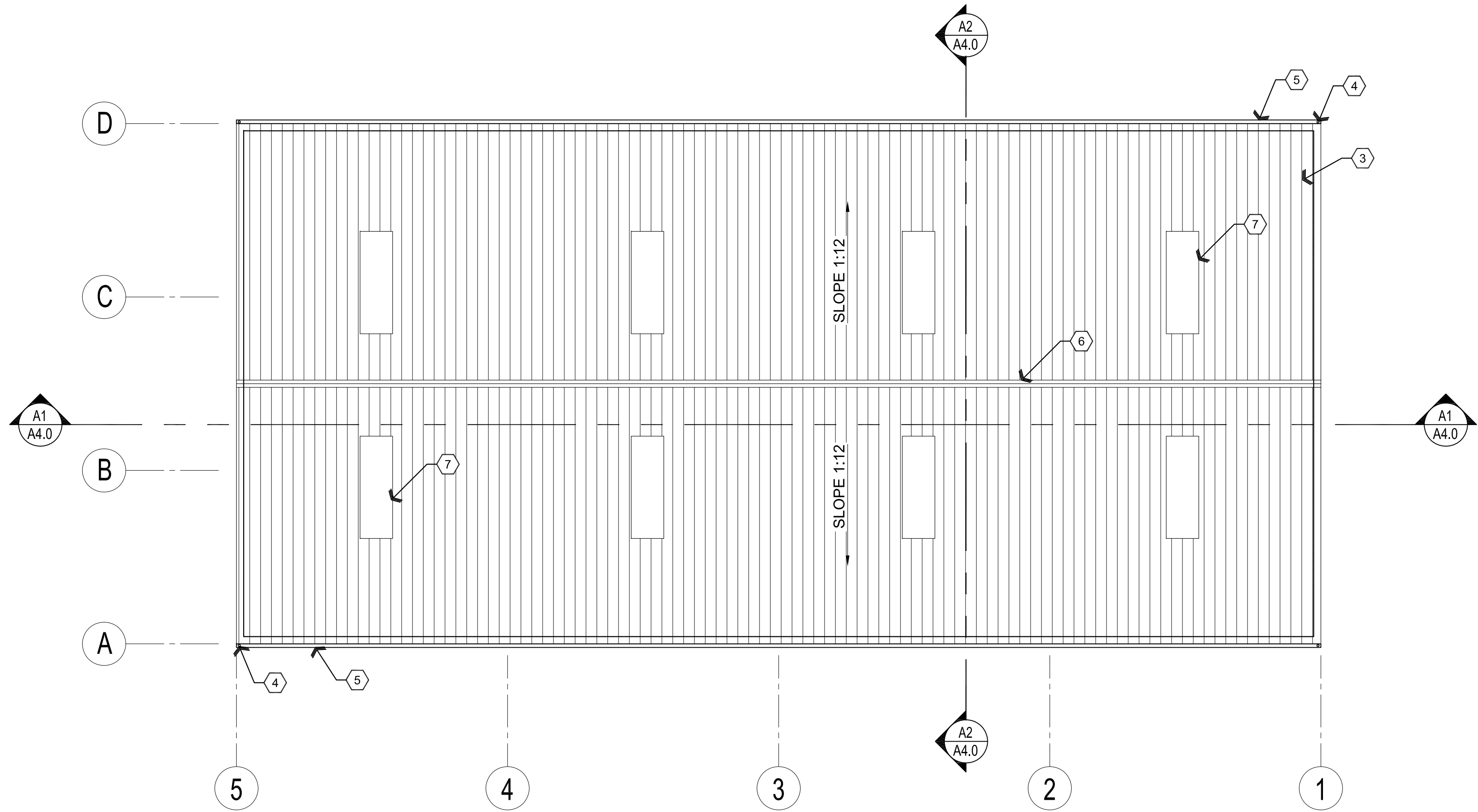
**DRAWING:** Reference / Dimension / Wall Types Floor Plan  
**PROJECT:** Olsen's Grain Storage Building  
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**APN:** 306-29-029C

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**A2.0**

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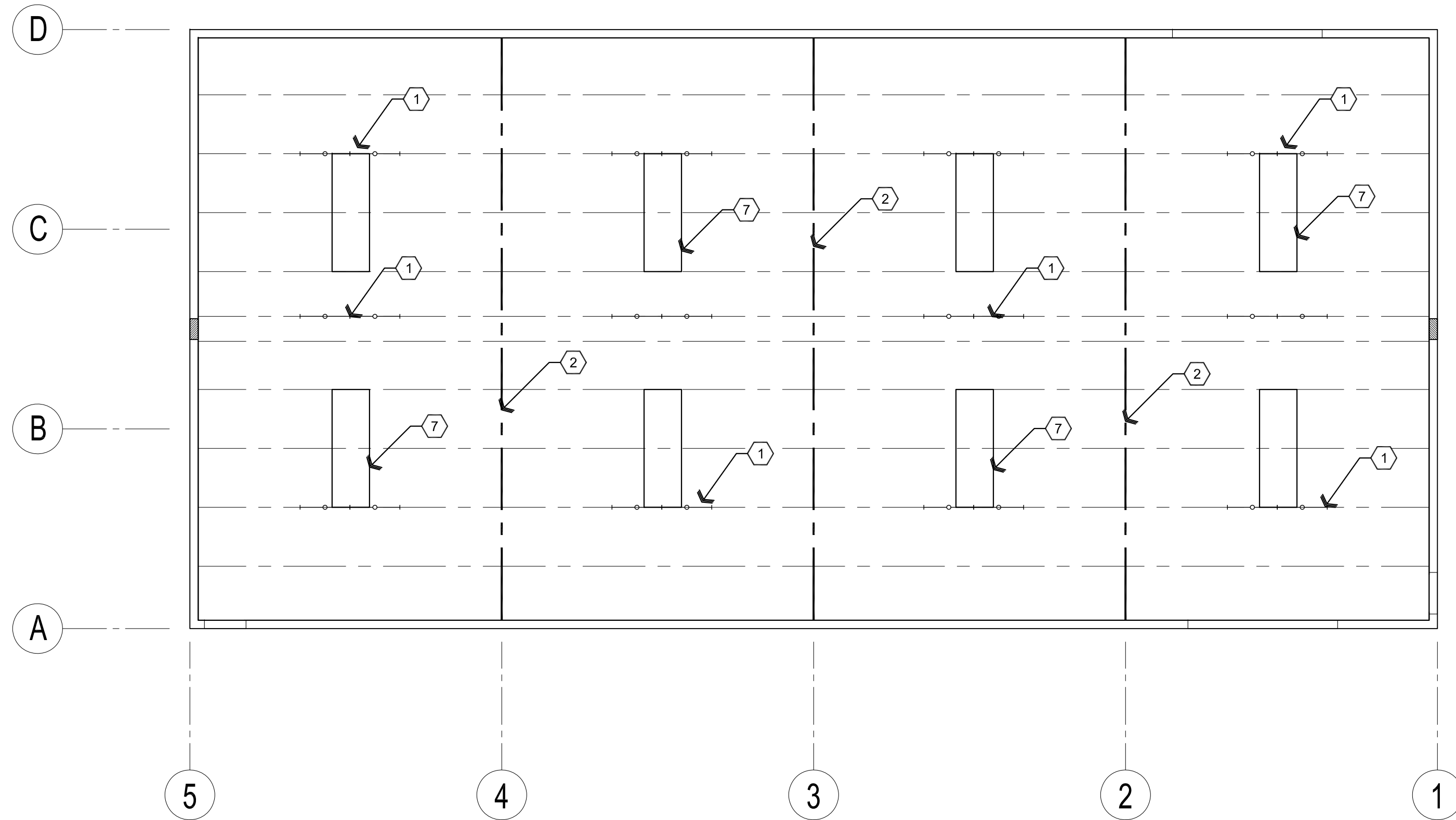
**A2** Roof Plan



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



**A1** Reflected Ceiling Plan



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



### Descriptive Keynotes

1. LIGHT FIXTURE(S) SHOWN FOR QUANTITY AND LOCATION ONLY, TYPICAL. REFER TO ELECTRICAL PLAN.
2. PROVIDE STEEL BEAM, REFER TO STRUCTURAL PLANS.
3. PROVIDE 'PBR' PANEL METAL ROOF, REFER TO MATERIALS SCHEDULE. M-1
4. PROVIDE SHEET METAL DOWNSPOUT, REFER TO MATERIALS SCHEDULE. M-3
5. PROVIDE SHEET METAL GUTTER, REFER TO MATERIALS SCHEDULE. M-2
6. PROVIDE RIDGE CAP, REFER TO MATERIALS SCHEDULE. M-6
7. PROVIDE 3'-0" WIDE SKYLIGHT.

### Legend

—○— 4' LED STRIP LIGHT FIXTURE

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**DRAWING:** Roof Plan and Reflected Ceiling Plan

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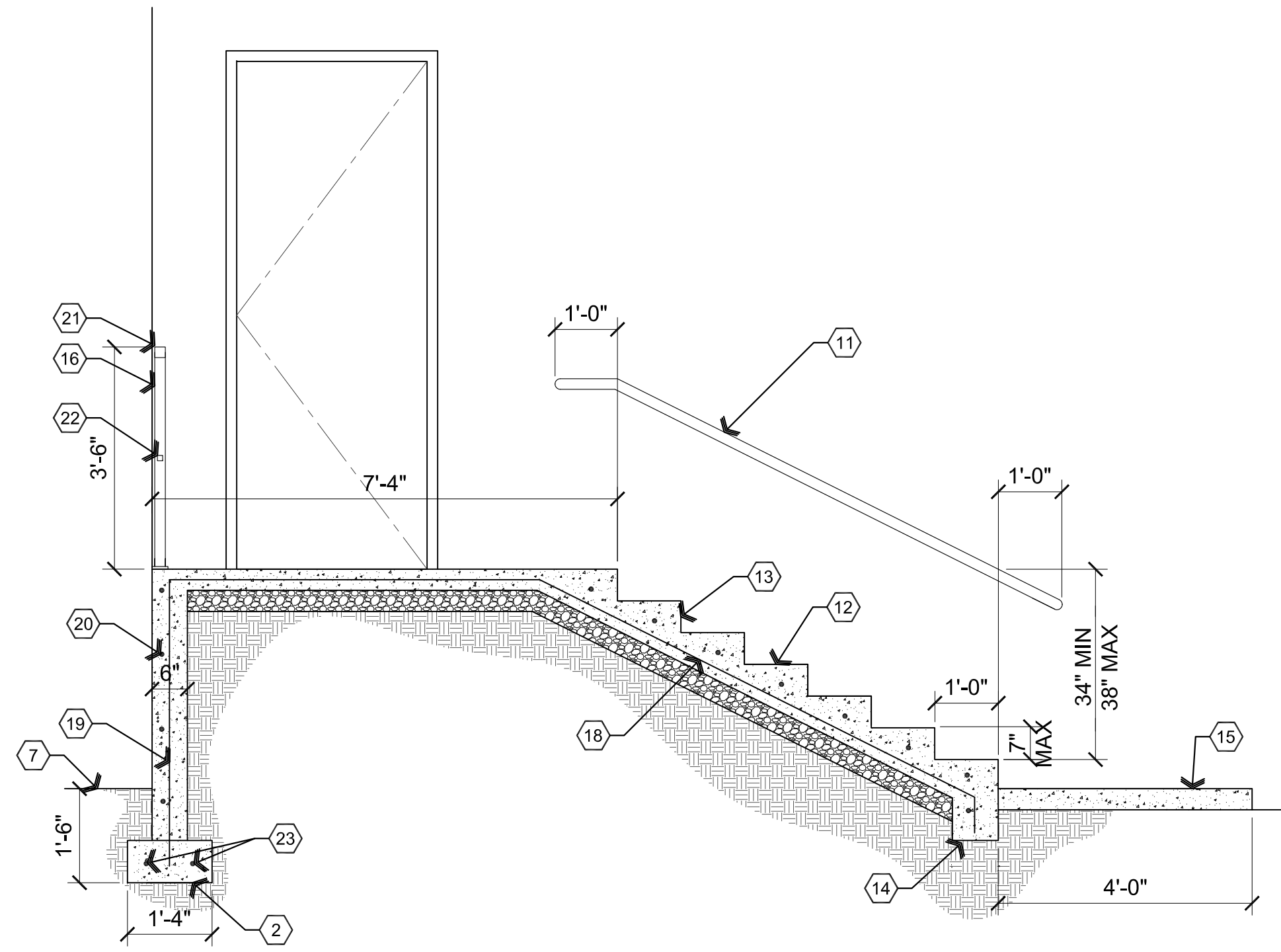
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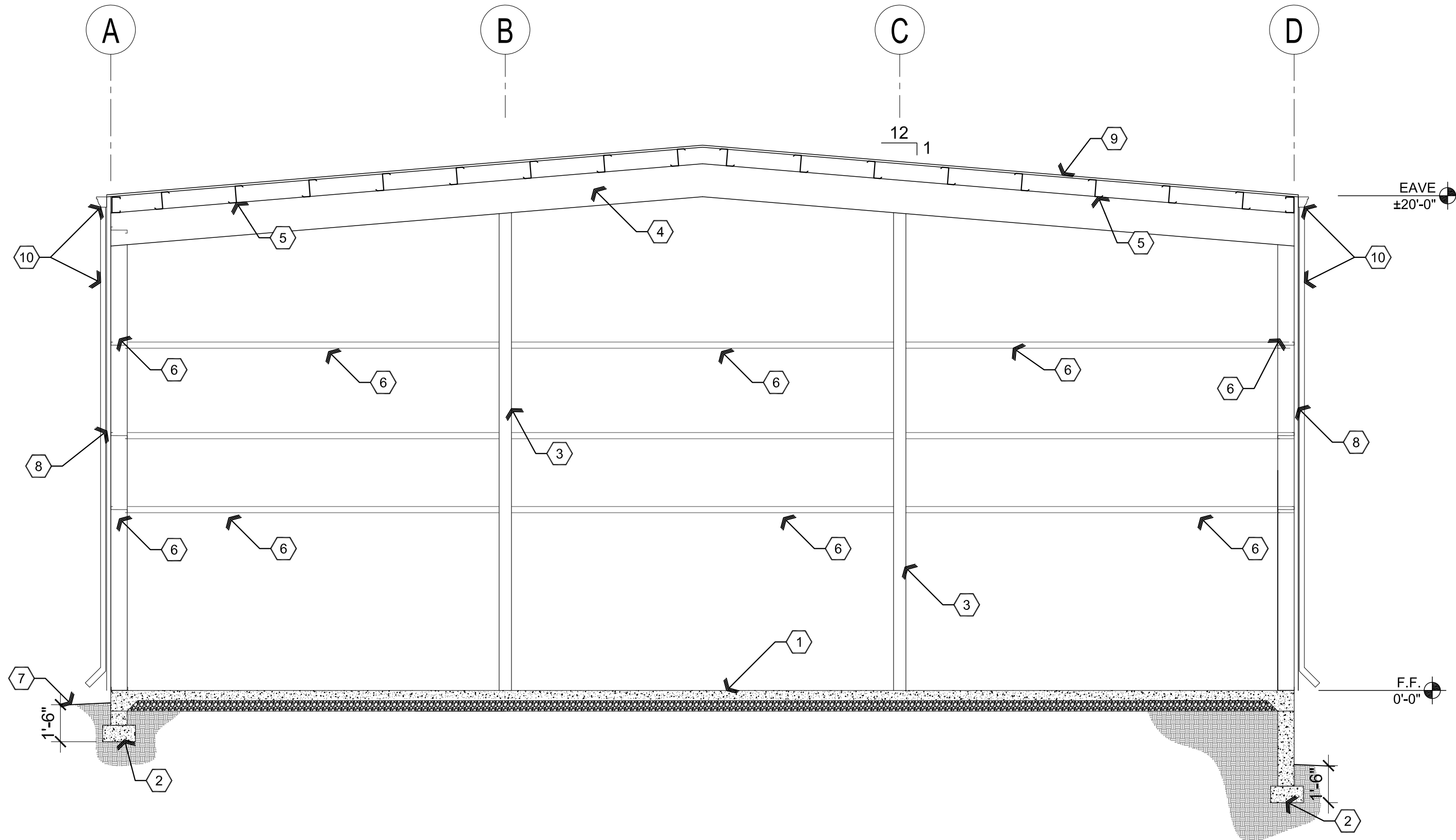
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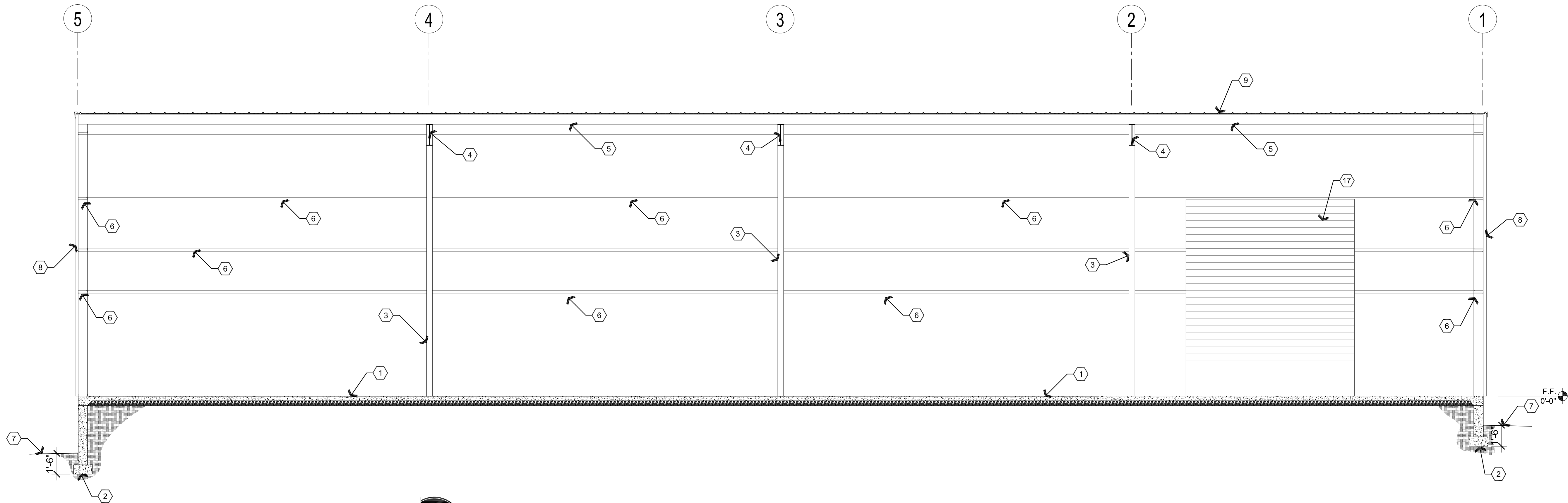
**A2** Stair Section

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



**B2** Building Section

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



**A1** Building Section

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

## Descriptive Keynotes

1. PROVIDE 5" CONCRETE SLAB OVER 4" COMPACTED A.B.C., SAWCUT SLAB AT APPROXIMATELY 12'-0" O.C. IN BOTH DIRECTIONS. REFER TO STRUCTURAL PLANS.
2. PROVIDE CONCRETE FOOTING. REFER TO STRUCTURAL PLANS.
3. PROVIDE STEEL COLUMN. REFER TO STRUCTURAL PLANS.
4. PROVIDE STEEL BEAM. REFER TO STRUCTURAL PLANS.
5. PROVIDE ROOF PURLIN, TYPICAL. REFER TO STRUCTURAL PLANS.
6. PROVIDE STEEL GIRT, TYPICAL. REFER TO STRUCTURAL PLANS.
7. EXTERIOR GRADE.
8. PROVIDE 'PBR' METAL SIDING, REFER TO MATERIALS SCHEDULE. M-4
9. PROVIDE 'PBR' ROOF PANELS, REFER TO MATERIALS SCHEDULE. M-1
10. PROVIDE SHEET METAL GUTTER AND DOWNSPOUT, REFER TO MATERIALS SCHEDULE. M-2 M-3
11. PROVIDE 1 1/2" DIAMETER SCHEDULE 40 PAINTED METAL HANDRAIL, ATTACHED TO BUILDING EXTERIOR WALL.
12. PROVIDE 12" TREADS.
13. PROVIDE  $\pm 6$  1/2" RISERS EQUAL HEIGHT.
14. PROVIDE CONCRETE TURNDOWN.
15. PROVIDE 4" THICK CONCRETE SIDEWALK W/ #3 @ 2'-0" O.C. EACH WAY OVER 4" COMPACTED A.B.C. PROVIDE 8" MINIMUM TURNDOWN ON SIDES.
16. 2"x2"x3/16" PAINTED PIPE STEEL TUBE GUARDRAIL. TOP OF GUARDRAIL TO BE 42" ABOVE STAIR NOSING OR F.F. GUARDRAIL SHALL NOT HAVE OPENING WHICH ALLOW PASSAGE OF A SPHERE 21 INCHES IN DIAMETER.
17. PROVIDE ROLL UP DOOR, REFER TO DOOR SCHEDULE AND REFERENCE FLOOR PLAN.
18. #3s @ 1'-6" O.C. EACH WAY.
19. #4 VERTICAL @ 2'-0" O.C.
20. #4 HORIZONTAL @ 1'-0" O.C.
21. 2"x1"x3/16" PAINTED STEEL TUBE TOP RAIL.
22. 1"x1"x1/8" PAINTED STEEL TUBE MID RAIL.
23. 2 - #4s HORIZONTAL.

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**ARCHITECTURE & PLANNING**

**DRAWING:** Building Sections

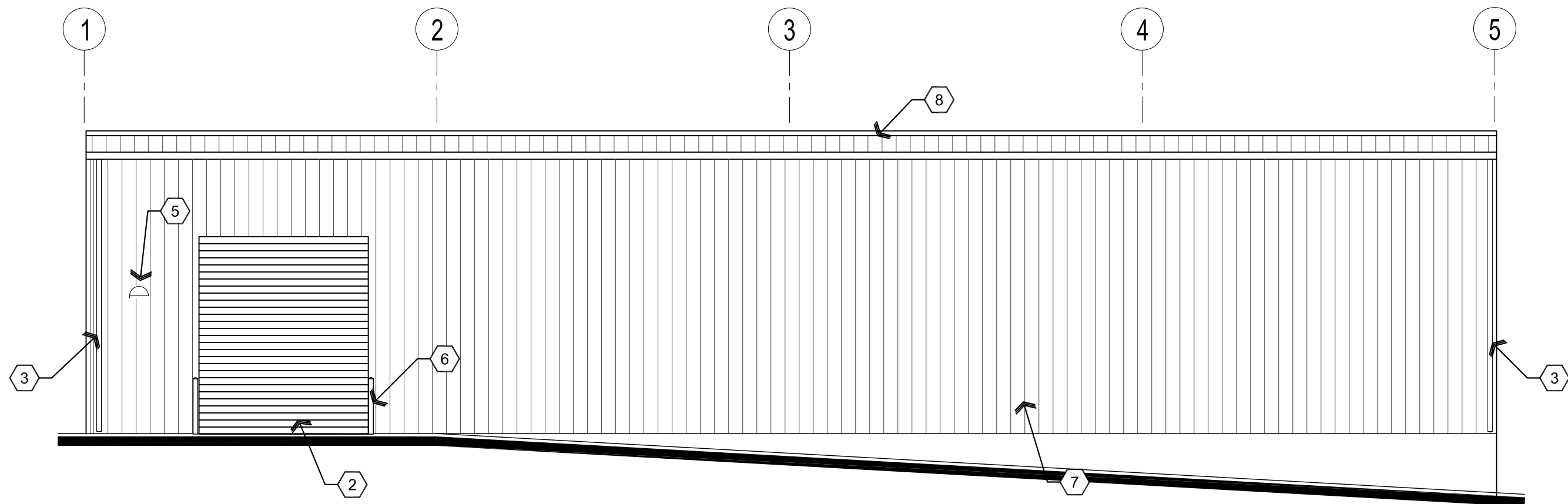
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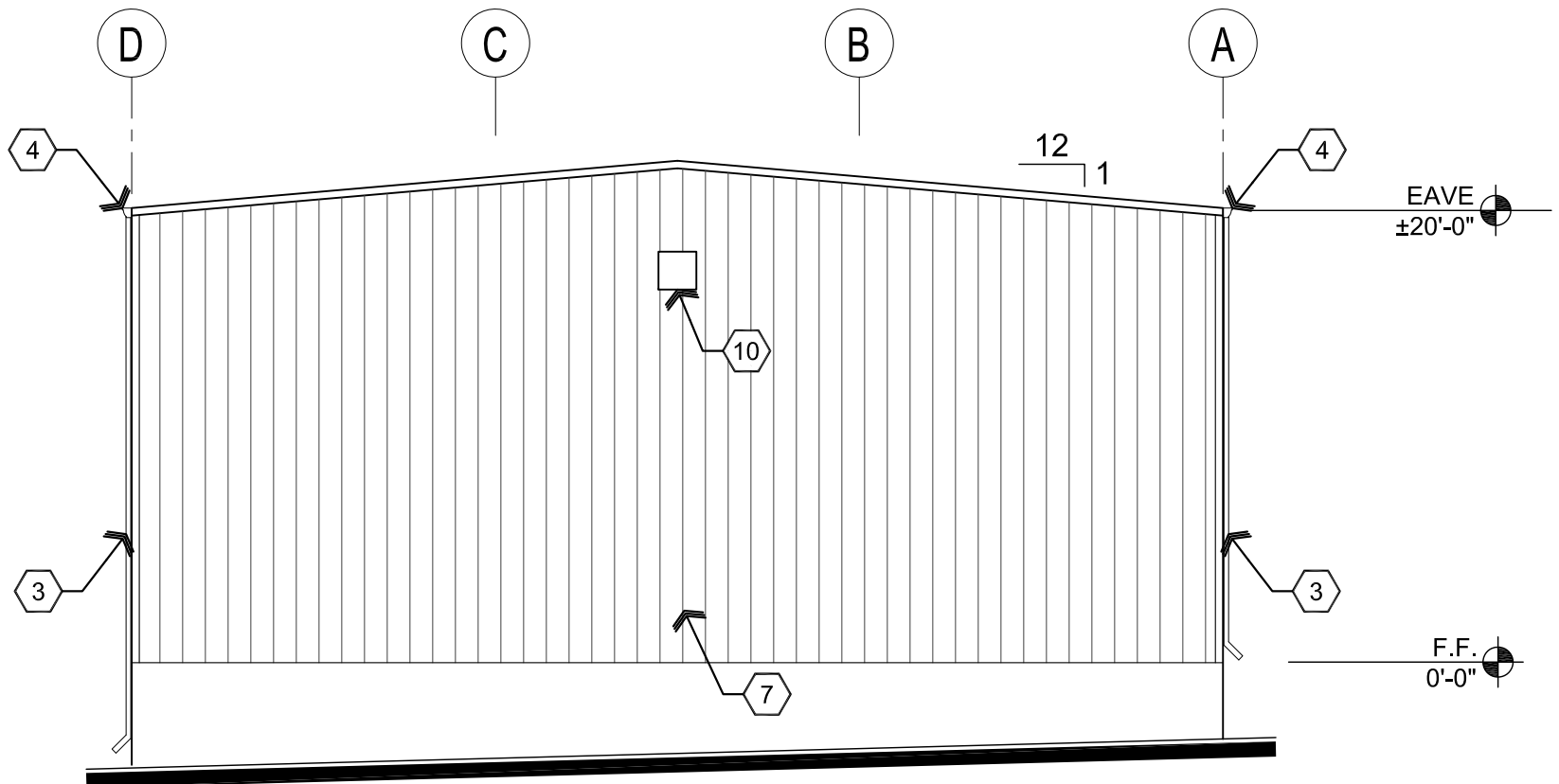
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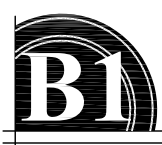
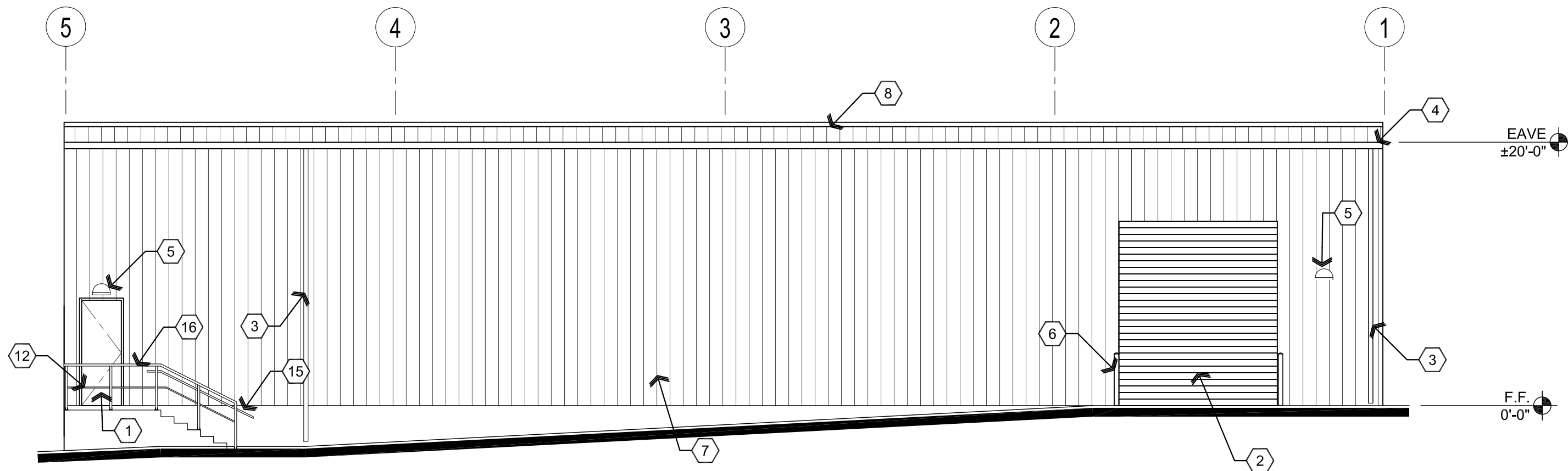
North Elevation

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



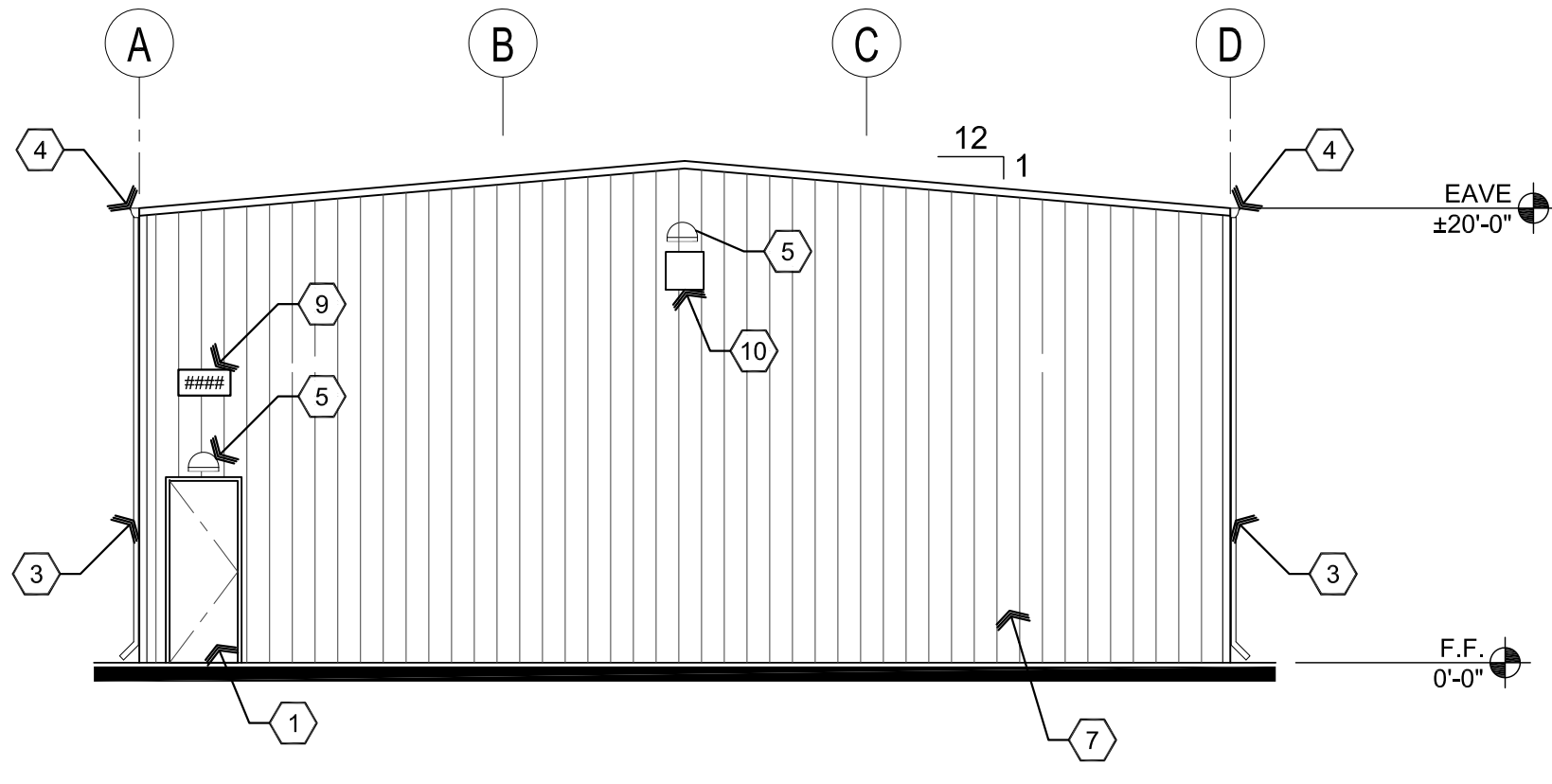
West Elevation

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



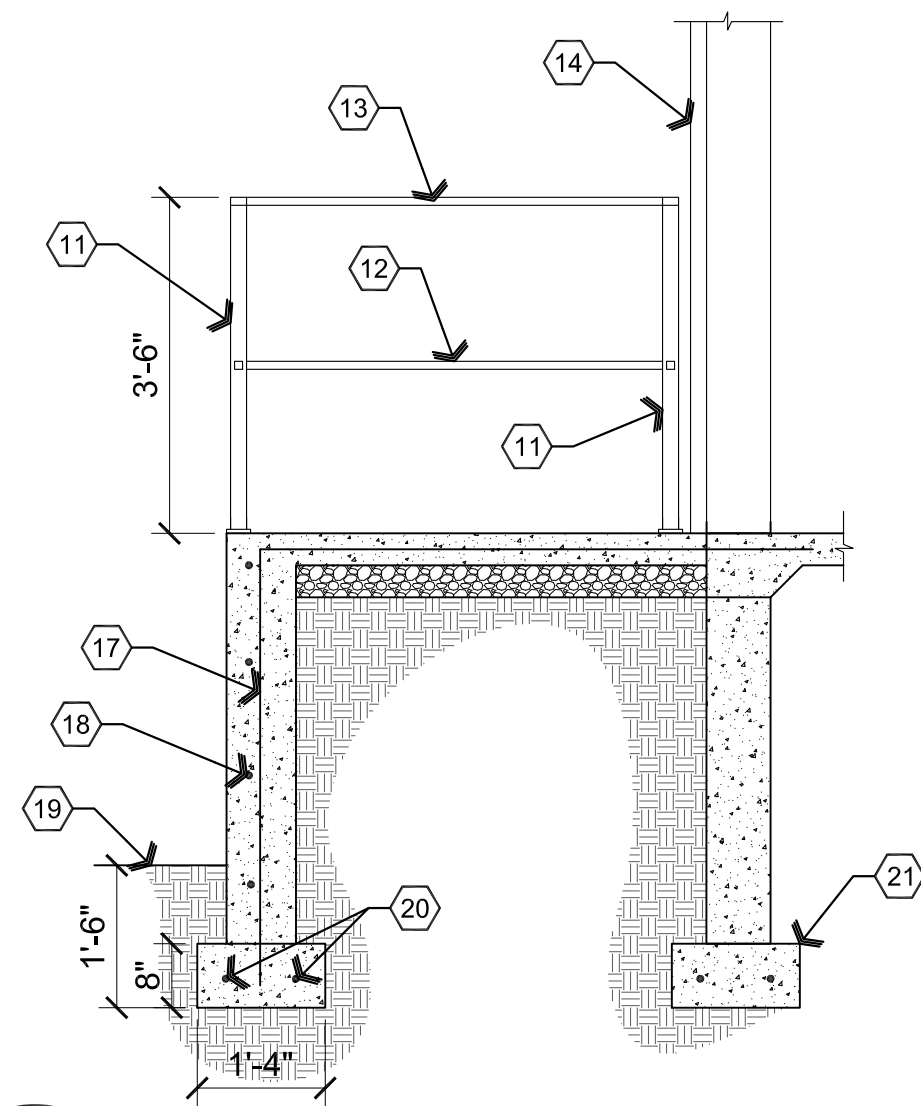
South Elevation

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



East Elevation

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



Stair Section

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

## Descriptive Keynotes

1. PROVIDE DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
2. PROVIDE ROLL-UP DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
3. PROVIDE SHEET METAL DOWNSPOUT, REFER TO MATERIALS SCHEDULE. M-3
4. PROVIDE SHEET METAL GUTTER, REFER TO MATERIALS SCHEDULE. M-2
5. PROVIDE LIGHT FIXTURE, REFER TO ELECTRICAL PLANS.
6. 4" STEEL CONCRETE FILLED BOLLARDS, 4'-0" ABOVE CONCRETE WITH 2'-0" EMBEDDED INTO CONCRETE FOOTING BELOW, TYPICAL.
7. PROVIDE METAL WALL PANEL. REFER TO , WALL TYPES PLAN AND MATERIALS SCHEDULE. M-4
8. PROVIDE METAL ROOF PANELS, REFER TO MATERIALS SCHEDULE. M-1
9. PROVIDE 12" TALL ADDRESS NUMBERS.
10. PROVIDE EXHAUST FAN AS MANUFACTURED BY AIRMASTER. MODEL #LPSF20.
11. 2"x2"x3/16" PAINTED STEEL TUBE GUARDRAIL POST. TOP OF GUARDRAIL TO BE 42" ABOVE STAIR NOSING OR F.F. GUARDS SHALL NOT HAVE OPENING WHICH ALLOW PASSAGE OF A SPHERE 21 INCHES IN DIAMETER.
12. 1"x1"x1/8" PAINTED STEEL TUBE INTERMEDIATE RAIL.
13. 2"x1"x3/16" PAINTED STEEL TUBE TOP RAIL.
14. EXTERIOR BUILDING WALL.
15. 1-1/2" SCHEDULE 40 PAINTED PIPE STEEL HANDRAIL @ 36" ABOVE STAIR NOSING. ATTACH TO GUARDRAIL / STAIR STRINGER.
16. 2"x2"x3/16" PAINTED PIPE STEEL GUARDRAIL. TOP OF GUARDRAIL TO BE 42" ABOVE STAIR NOSING. GUARDS SHALL NOT HAVE OPENING WHICH ALLOW PASSAGE OF A SPHERE 21 INCHES IN DIAMETER.
17. #4 VERTICAL @ 2'-0" O.C.
18. #4 HORIZONTAL @ 1'-0" O.C.
19. EXTERIOR GRADE.
20. 2 - #4s HORIZONTAL.
21. CONCRETE FOOTING, REFER TO STRUCTURAL PLANS.

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ARCHITECTURE & PLANNING

EXTERIOR ELEVATIONS

DRAWING:

PROJECT:

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## Materials schedule

XX- #

CODE	MATERIAL	LOCATION	MANUFACTURER	SPECIFICATION
M-1	METAL ROOF PANEL	ROOF	MBCI	PBR PANEL, 26 GAUGE PRE-PAINTED TO MATCH EXISTING BUILDINGS
M-2	METAL RAIN GUTTER	EXTERIOR	MBCI	26 GAUGE, SIGNATURE 200 PRE-PAINTED TO MATCH EXISTING BUILDINGS
M-3	3"x4" METAL DOWNSPOUT	EXTERIOR	MBCI	26 GAUGE, SIGNATURE 200 PRE-PAINTED TO MATCH EXISTING BUILDINGS
M-4	EXTERIOR METAL WALL PANEL	EXTERIOR WALLS	MBCI	'PBR' PANEL 26 GAUGE, SIGNATURE 200 PRE-PAINTED TO MATCH EXISTING BUILDINGS
M-5	METAL TRIM	EXTERIOR	MBCI	26 GAUGE SIGNATURE 200 PRE-PAINTED TO MATCH EXISTING BUILDINGS
M-6	METAL RIDGE CAP	ROOF	MBCI	SIGNATURE 200 TO MATCH EXISTING BUILDINGS

## Door Schedule

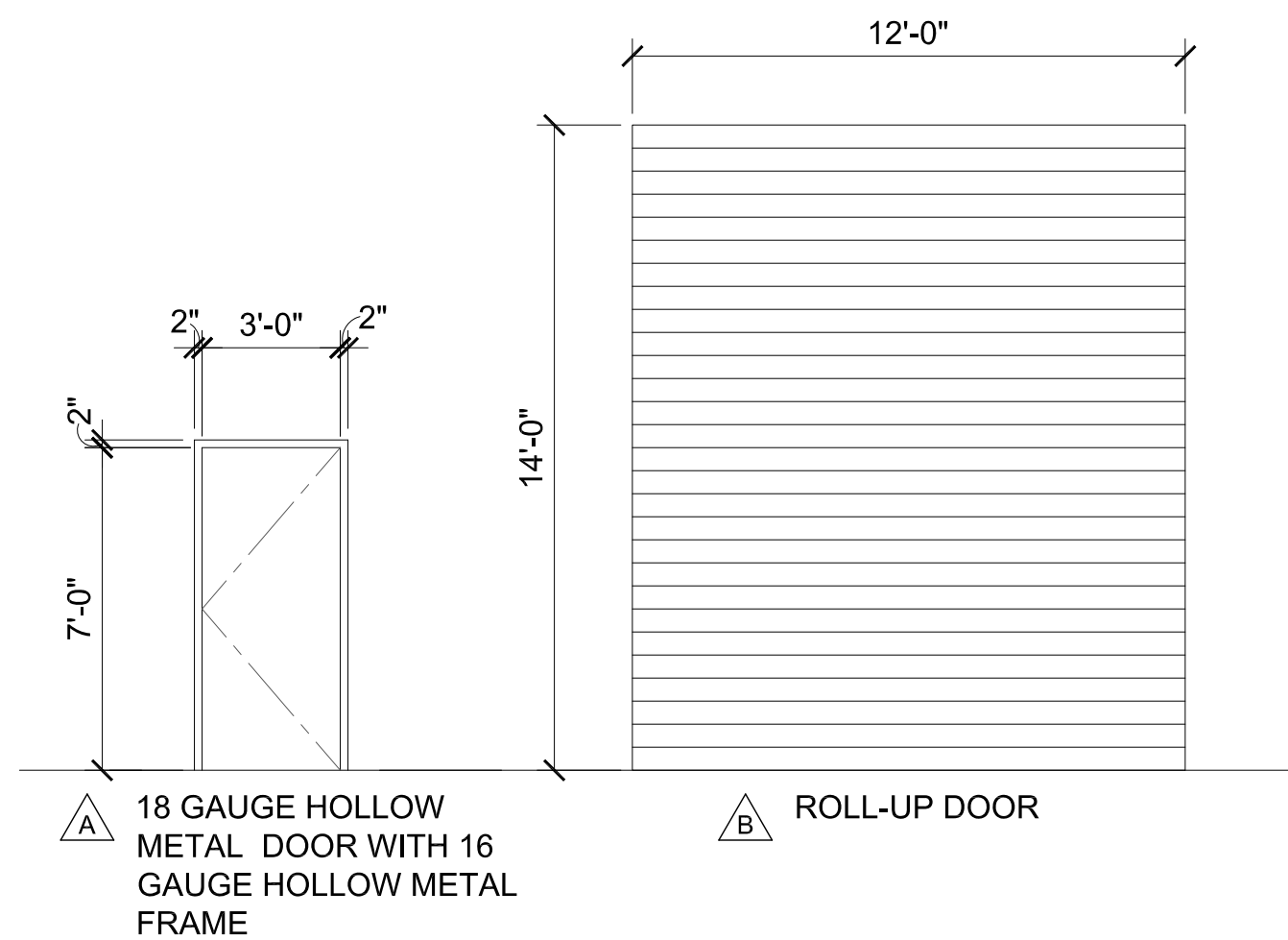
NO.	ROOM NAME	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE TYPE
100A	STORAGE	12'-0"x14'-0"	B	STEEL	PAINT	STEEL	PAINT	02
100B	STORAGE	12'-0"x14'-0"	B	STEEL	PAINT	STEEL	PAINT	02
100C	STORAGE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
100D	STORAGE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01

**NOTES:**

1. ALL EXIT DOORS & HARDWARE SHALL COMPLY WITH THE 2018 I.B.C.
2. DOOR THRESHOLDS SHALL HAVE A MAX HEIGHT OF 1/2" FOR H.C. ACCESSIBILITY. THRESHOLD SHALL HAVE A MAXIMUM RISE OF 1/4" AND 1/2" RISE WHEN BEVELED WITH MAXIMUM 1:2 SLOPE.
3. ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING.
4. ALL INTERIOR DOORS SHALL BE OPERABLE FOR EMERGENCY EXITING PURPOSES WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE NOR EFFORT.
5. ALL GLAZING WITHIN 24" OF OPENINGS SHALL BE SAFETY GLASS.
6. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
7. DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. HARDWARE REQUIRED FOR DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISH FLOOR.
8. DOOR OPENING FORCE SHALL BE: 5lbf MAX INTERIOR HINGED, SLIDING OR FOLDING DOORS; FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.

## Hardware Schedule

<b><u>HW-01</u></b>	LEVER ENTRY LOCK, CHAIN STOP, WEATHER STRIP, THRESHOLD, DOOR BOTTOM, HINGES
<b><u>HW-02</u></b>	CHAIN HOISTED ROLL-UP DOOR



REVISIONS	BY

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# ARCHITECTURE & PLANNING

**DRAWING:** Door and Material Schedules

**PROJECT:** Olsen's Grain Storage Building  
344 S. State Route 89  
Chino Valley, AZ 86323

**APN:**

DRAWN BY  
L.O.

CHECKED BY \_\_\_\_\_

DATE  
May 20th, 2022

JOB NO  
785

SHEET

# A6.0



May 20, 2022 - 8:47am

## GENERAL STRUCTURAL NOTES

... APPLY UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS

CODE: Comply with 2018 IBC

SEISMIC: Soils Site Class D  
Seismic Design Category C  
Seismic Use Group 1

WIND: Basic wind speed 115 m.p.h., exposure C.

SUPERIMPOSED LOADS

LIVE LOADS: 30 psf (SNOW)

METAL ROOF: 0.9 psf

PURLINS: 1.0 psf

MISC: 3.1 psf

TOTAL: 5.0 psf

FOUNDATIONS:

Bear at 1'-6" below finished grade on undisturbed or prepared soil as described in soils report. Allowable bearing pressure = 2500 psf. See soils report for further info.

Soils report by Red Butte Engineering, LLC  
Dated: Feb. 26, 2019 w/ supplement  
Dated: Mar 30, 2022

SPECIAL INSPECTION:

- 1) Verify Safe Soil Bearing Capacity
- 2) Not Required for Concrete (2500 PSI Used in Design)
- 3) Field Welding (if present)
- 4) Not Required for High Strength Bolts (No Slip Critical Connections)

CONCRETE

Shall meet all the requirements of ACI 301-16 with Type II cement. Minimum 28 day strength 3,000 p.s.i., (2500 used in design, no Special inspection required).

No admixtures without approval. Admixtures containing chlorides shall not be used. Concrete shall not be in contact with aluminum.

Mechanically vibrate all concrete when placed, except that slabs on grade need be vibrated only around embedded items. Slump 4 inches for slabs not on grade and 5 inches for other concrete. Do not add water to concrete at site.

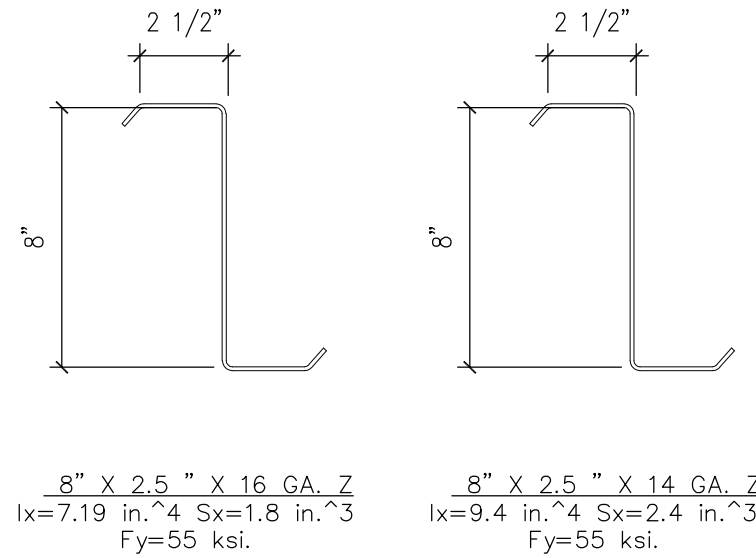
All reinforcing, including dowels and anchor bolts, shall be securely tied in location before placing concrete or grout. Dowels will not be allowed to be "stabbed" in.

REINFORCING:

ASTM A-615 Grade 60 except as follows:

#2 bars..... Grade 40

Welded anchors..... Grade 40, chemical analysis limited per AWS spec for weld without preheat. Also see "Welding" below.



PURLIN & GIRTS

COLD-FORMED STEEL STUDS AND JOISTS:

Steel stud system shall be designed by stud manufacturer, to the minimum criteria noted below and shown on plans. Submit for review prior to proceeding with work. All 16 gage and heavier cee, zee, eaves strut, tracks and straps shall be AISI Specifications with 57,000 p.s.i. yield stress. All other stud material shall be 33,000 p.s.i. steel of standard commercial quality. Web stiffeners shall be provided at reaction points and/or at points of concentrated loads.

Joist bridging shall be provided as required by manufacturer. Additional joists shall be provided around all floor and roof openings which interrupt one or more spanning members, unless otherwise noted.

End blocking shall be provided where joist ends are not otherwise restrained from rotation.

SECTION PROPERTIES FOR LIGHT GAGE MATERIALS:

All section properties must comply with the "Metal Stud Manufacturer's Association" (ICBO ER#4943).

The structural properties included here have been computed based on the American Iron and Steel Institute "Specification for the Design of Cold-Formed Structural Members".

Thickness - Steel Components  
Gauge Design Thickness (in) Minimum Thickness (in)

16	.0566	.0538
14	.0713	.0677
12	.1017	.0966

STRUCTURAL STEEL:

ASTM A-992 50 ksi

Bolts ASTM A-325.

Bolts embedded in concrete ASTM A-307.

See "Welding" section for special requirements.

26 GAGE "R" PANEL, METAL ROOF DECK:

Steel Deck Institute specifications and recommendations apply, except as noted otherwise.

Deck shall be painted, minimum 26 gage, MCB1 36" width, with minimum  $S_x(t) = 0.039$  &  $S_x(b) = 0.0437$  inch cubed per foot of width ICBO #ER-S409P). Deck units shall be continuous over three spans, except that simple spans are required where deck warps to meet roof slopes. Use next heavier gage for simple or two span continuous conditions.

WELDING:

All construction and testing per American Welding Society codes and recommendations. All welding shall be by welders holding current valid certificates and having current experience in type of weld called for.

Welding rods to be low hydrogen type, E70 Series, per AWS D1.1 typically except E-6010 Series for steel sheet metal per AWS D1.3 and reinforcing weldments per AWS D1.4. Use E90 Series welding rods for A706 rebar.

All full-penetration groove or butt welded splices in material thicker than 5/16" shall be inspected by an independent testing laboratory, which shall test ultrasonically a sufficient number of welds but not less than 25 percent of total per welder, to certify all splices as meeting or exceeding strength of material spliced. Two copies of all test reports and a letter of such certification shall be submitted to the Architect.

Shop indicated welds may be done in field.



SUPPLEMENTARY NOTES:

Provide all temporary bracing, shoring, guying or other means to avoid excessive stresses and to hold structural elements in place during construction. Any members required to support equipment from the framing shown shall be designed and provided by the equipment Contractor. For connections, see details. If not shown or noted, minimum connections to be included in cost shall be two 3/4" diameter bolts or 3/16" fillet weld 4" long using 1/4" connection material and detailed to minimize bending in connection. Proceed after clarification through shop drawing submittal.

Options and approved substitutions are for Contractor's convenience. He shall be responsible for all changes and additional costs necessary and he shall coordinate all details.

Any engineering design provided by others and submitted for review shall be by an insured Structural Engineer with continuous five years of experience in the type of design submitted.

Unless noted otherwise, details on Structural Drawings are typical as indicated by cuts, references, or titles.

In case of conflicts, more costly requirements govern for bidding. Submit clarification request prior to proceeding with work.

Verify all dimensions with Architectural Drawings.

Contractor shall establish and verify in field all existing conditions affecting new construction. Contact Architect immediately if existing conditions are not as depicted in drawings.

All construction meeting or crossing expansion or shrinkage control joints in framed floors or roofs must have provisions to accommodate the movement or must be delayed until the joint is closed.

REVISIONS	BY

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REGISTERED PROFESSIONAL ENGINEER  
STATE OF ARIZONA  
GARY HANCOCK  
26025

REGISTERED PROFESSIONAL ARCHITECT  
STATE OF ARIZONA  
W. ALAN KENSON  
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ARCHITECTURE & PLANNING

DRAWING: General Structural Notes

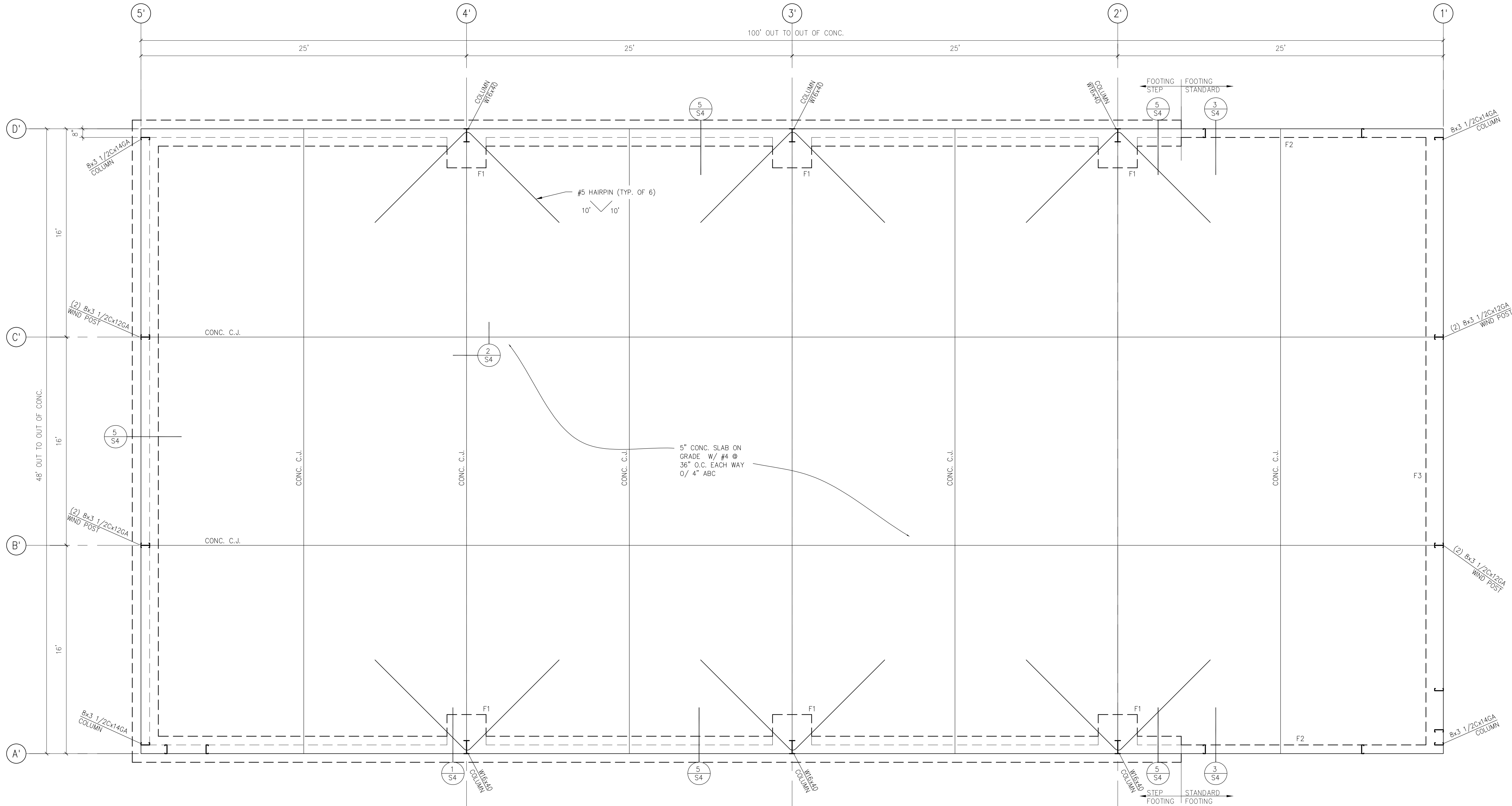
PROJECT: Olsen's Grain Storage Building  
344 S. State Route 89  
Chino Valley, AZ 86323

APN: 306-29-029C

DRAWN BY
CHECKED BY
DATE MAY 13th, 2022
JOB NO. 085-22
SHEET

So

May 20, 2022 - 8:47am



FOUNDATION PLAN


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

FOOTING SCHEDULE:	
F1	4'-0"SQ x 30" DEEP W/ (5) #5 EACH WAY, BOTT.
F2	8"W x 30" DEEP W/ (1) #5 TOP & BOTT. CONT.
F3	16"W x 30" DEEP W/ (2) #5 TOP & BOTT. CONT.

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**ARCHITECTURE & PLANNING**

**DRAWING:** Foundation Plan

**PROJECT:** Olsen's Grain Storage Building  
344 S. State Route 89  
Chino Valley, AZ 86323

**APN:** 306-29-029C

DRAWN BY
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DATE MAY 13th, 2022
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S1



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**TECTURE & PL**

# ARCHITECTURE & PLANNING

## DRAWING: Framing plan

**PROJECT:**

APN:

Olson's Grain Storage Building  
344 S. State Route 89  
Chino Valley, AZ 86323  
306-29-029C

306-29-029C

DRAWN BY

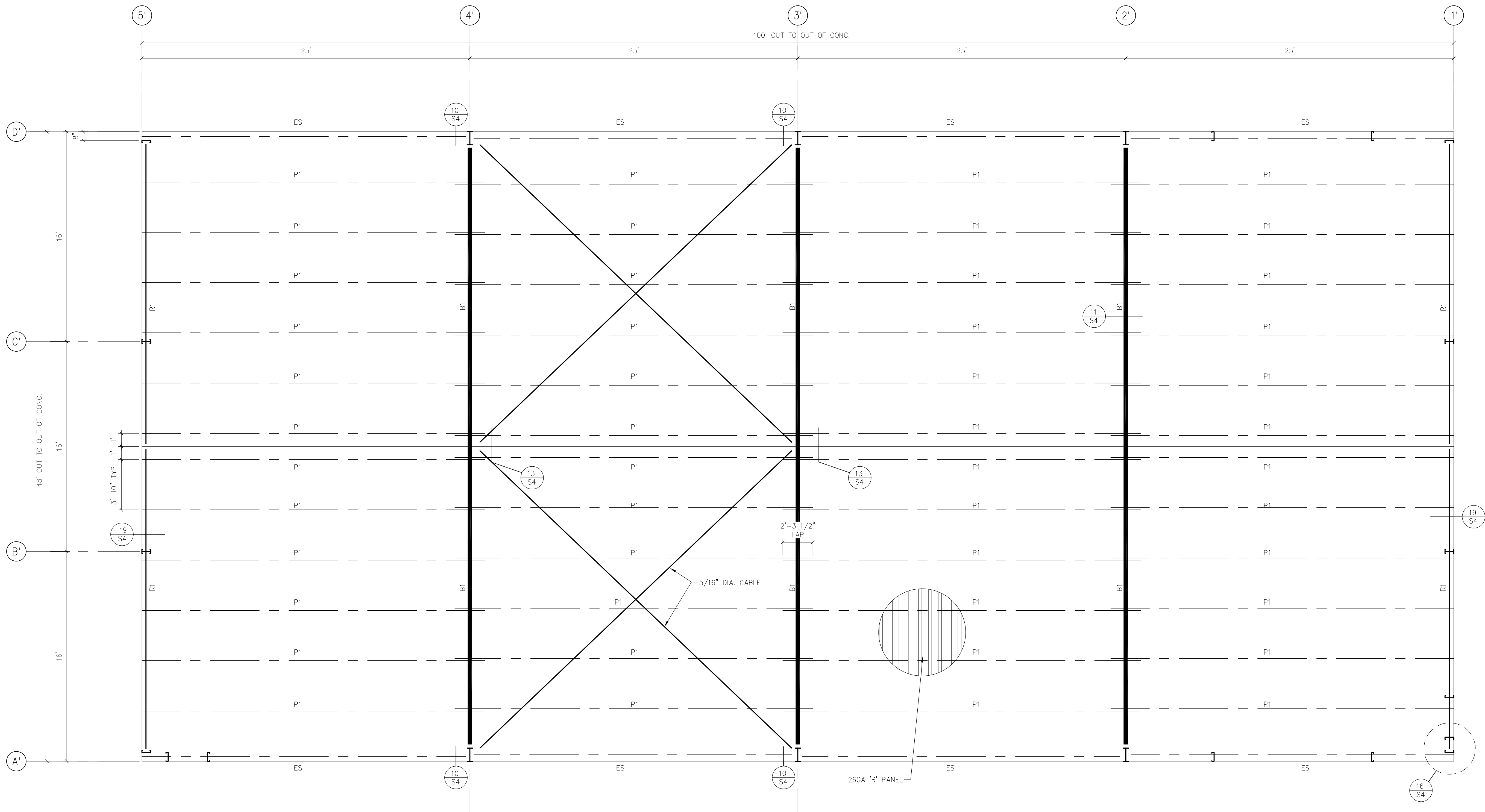
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DATE  
MAY 13th, 2022

OB NO.

SHEET

S2



FRAMING MEMBERS:

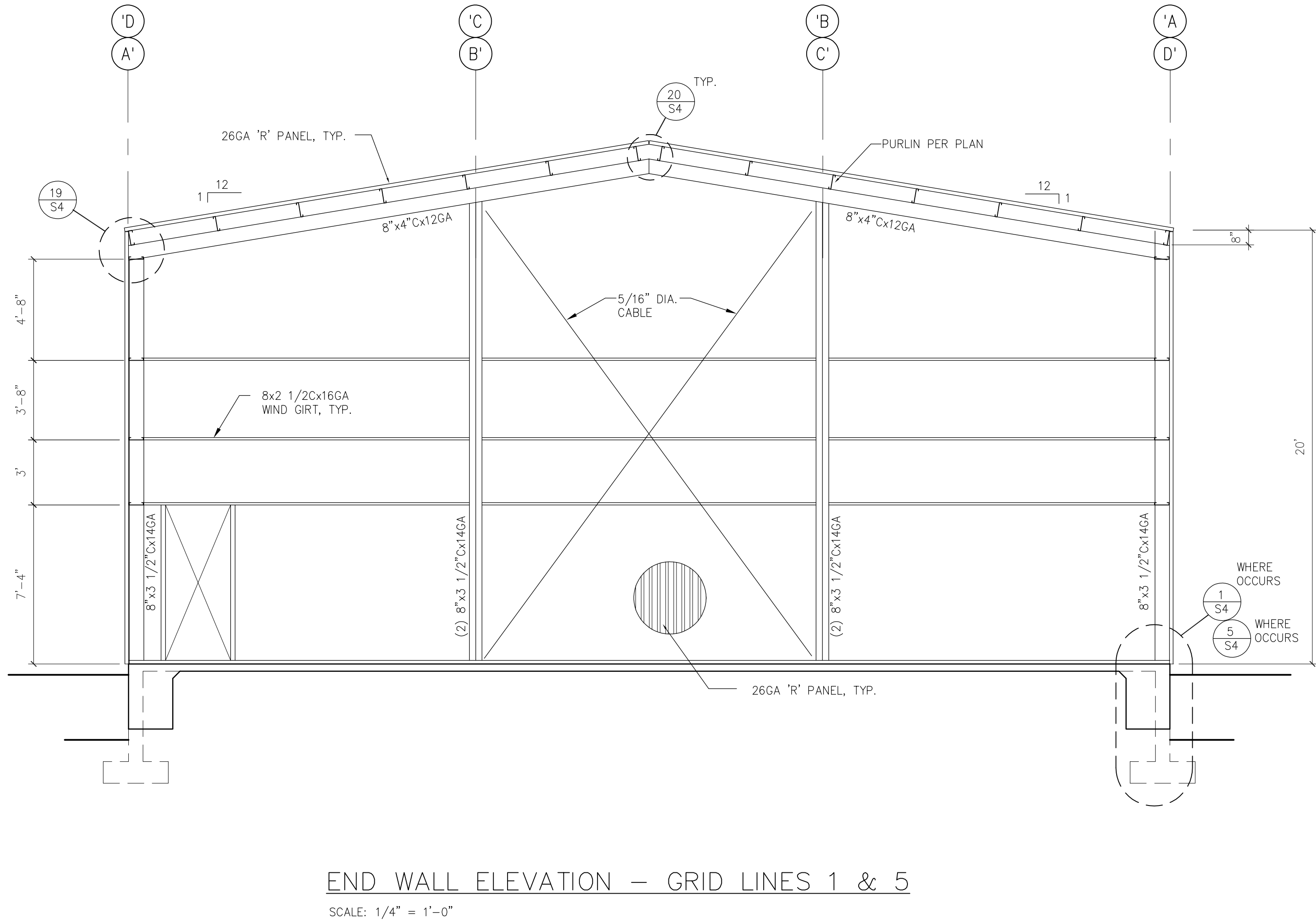
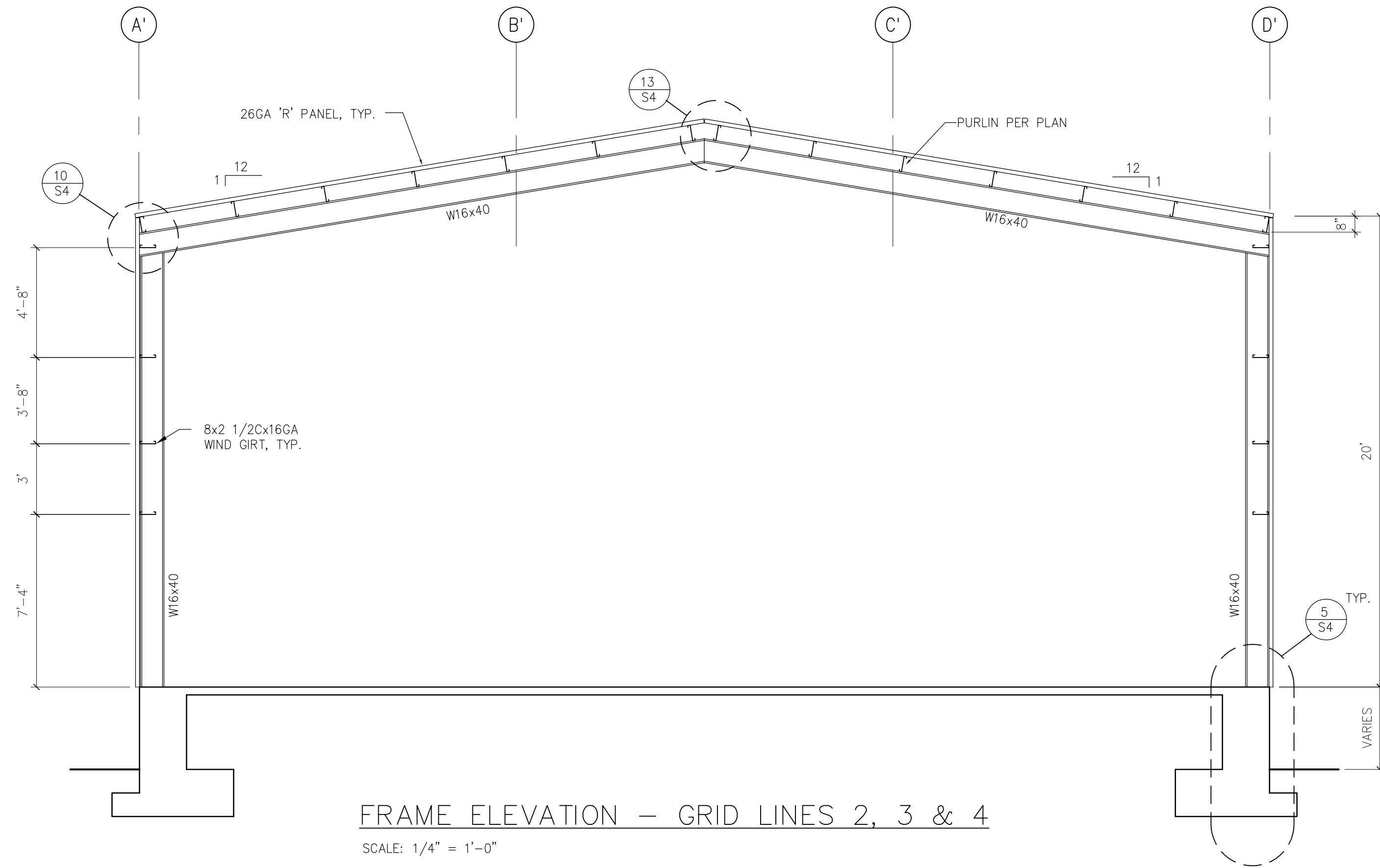
B1	W16x40 (SEE RISA) BEAM
R1	8"x4"CEE12GA RAKE
P1	8"x2 1/2" Z x14GA PURLIN
ES	8"x4"x4"x1"x14GA EAVE

FRAMING PLAN

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



May 20, 2022 - 8:48am



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**ARCHITECTURE & PLANNING**

**DRAWING:** Elevation & Frame Elevation

**PROJECT:** Olsen's Grain Storage Building  
344 S. State Route 89  
Chino Valley, AZ 86323

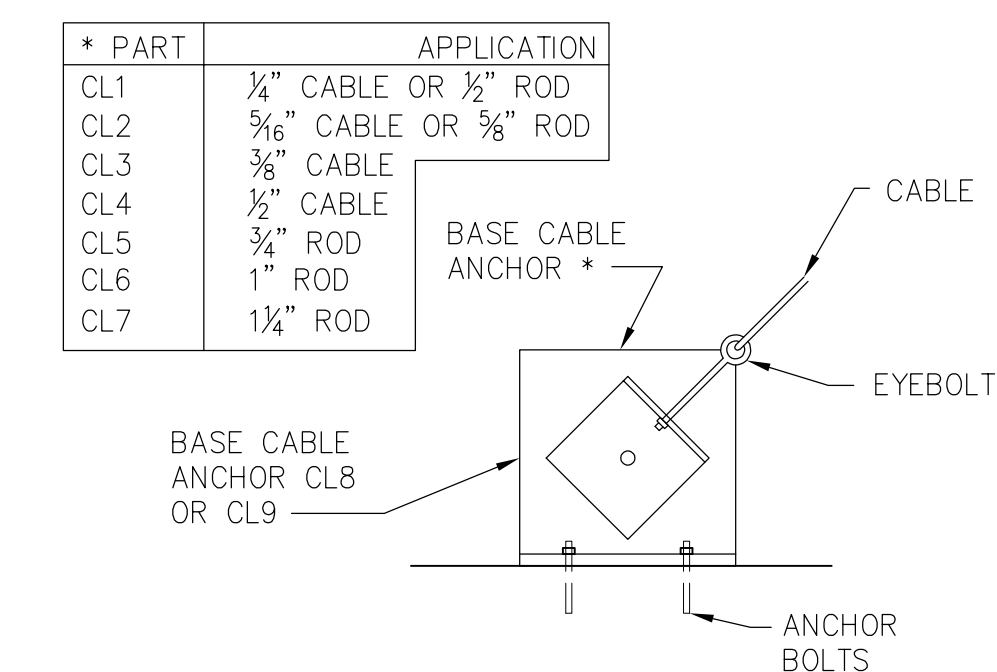
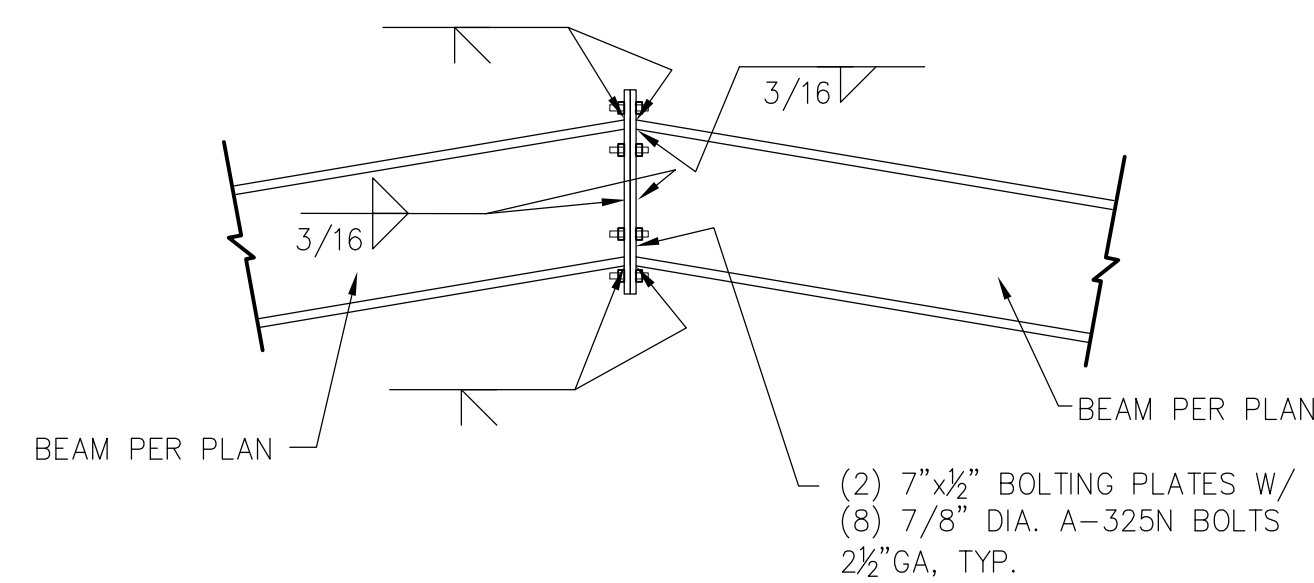
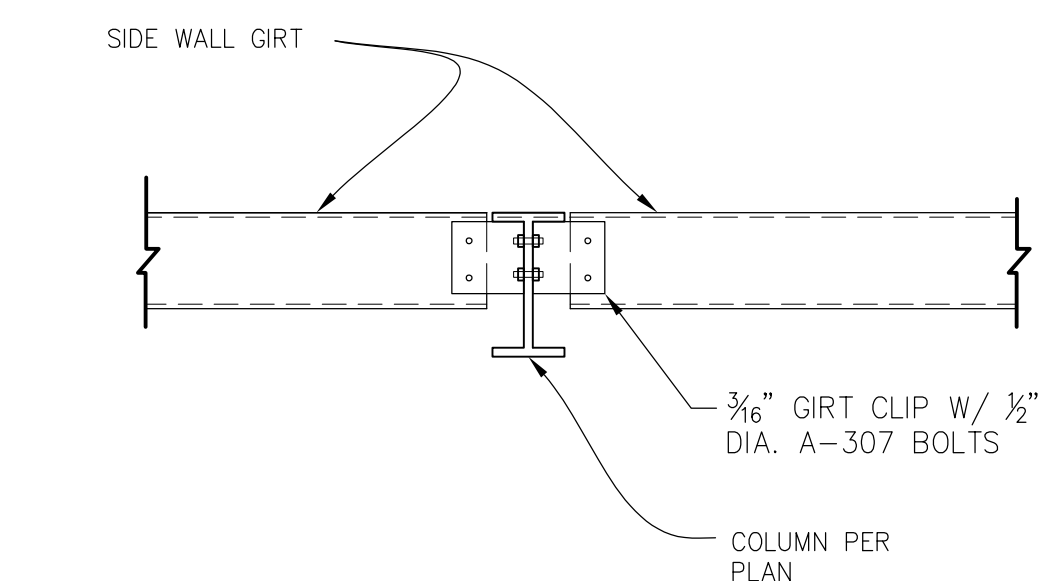
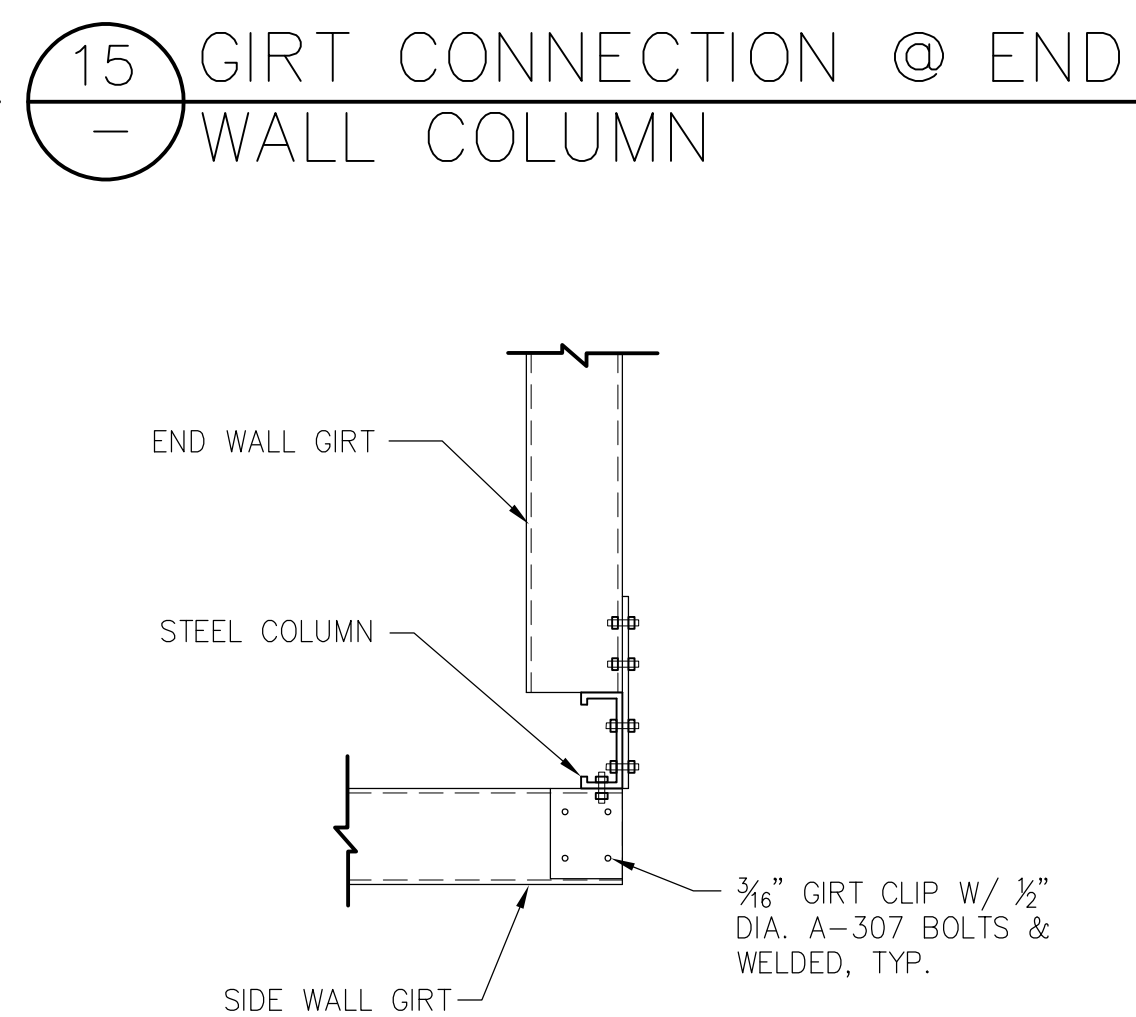
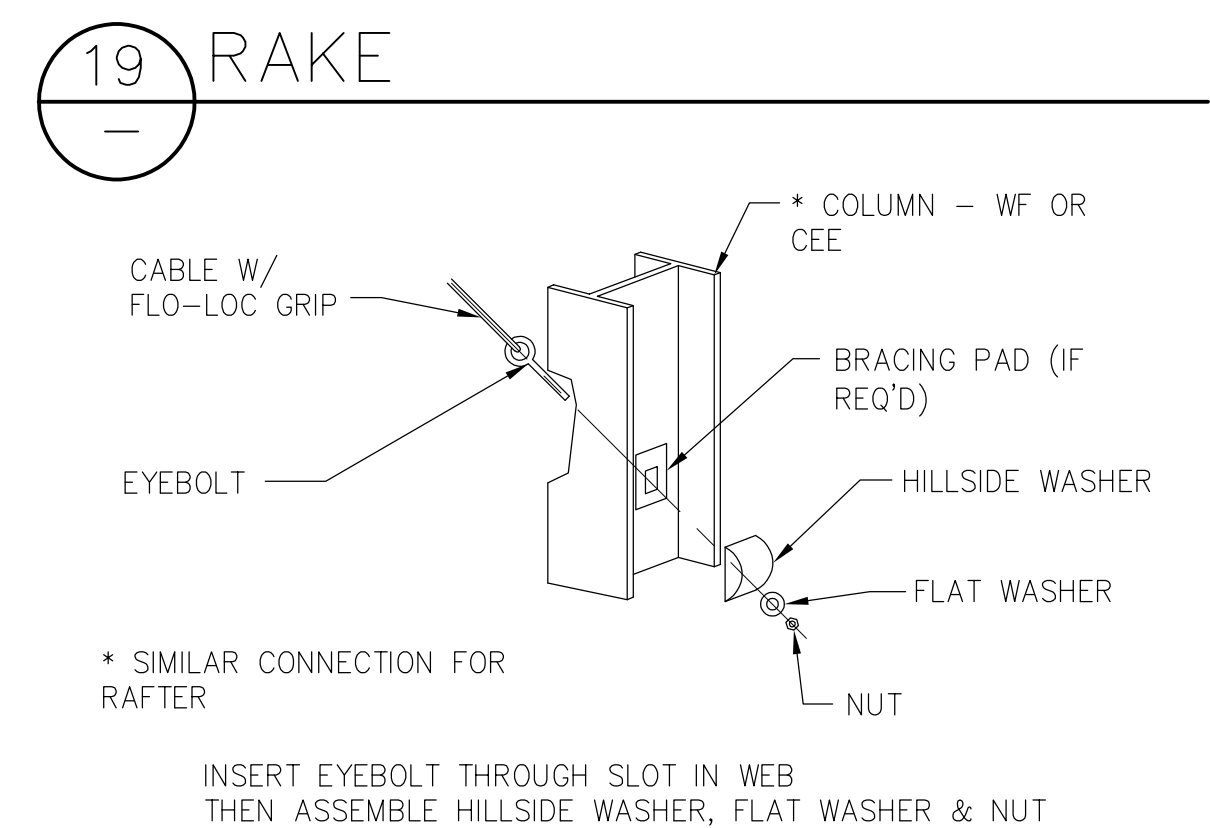
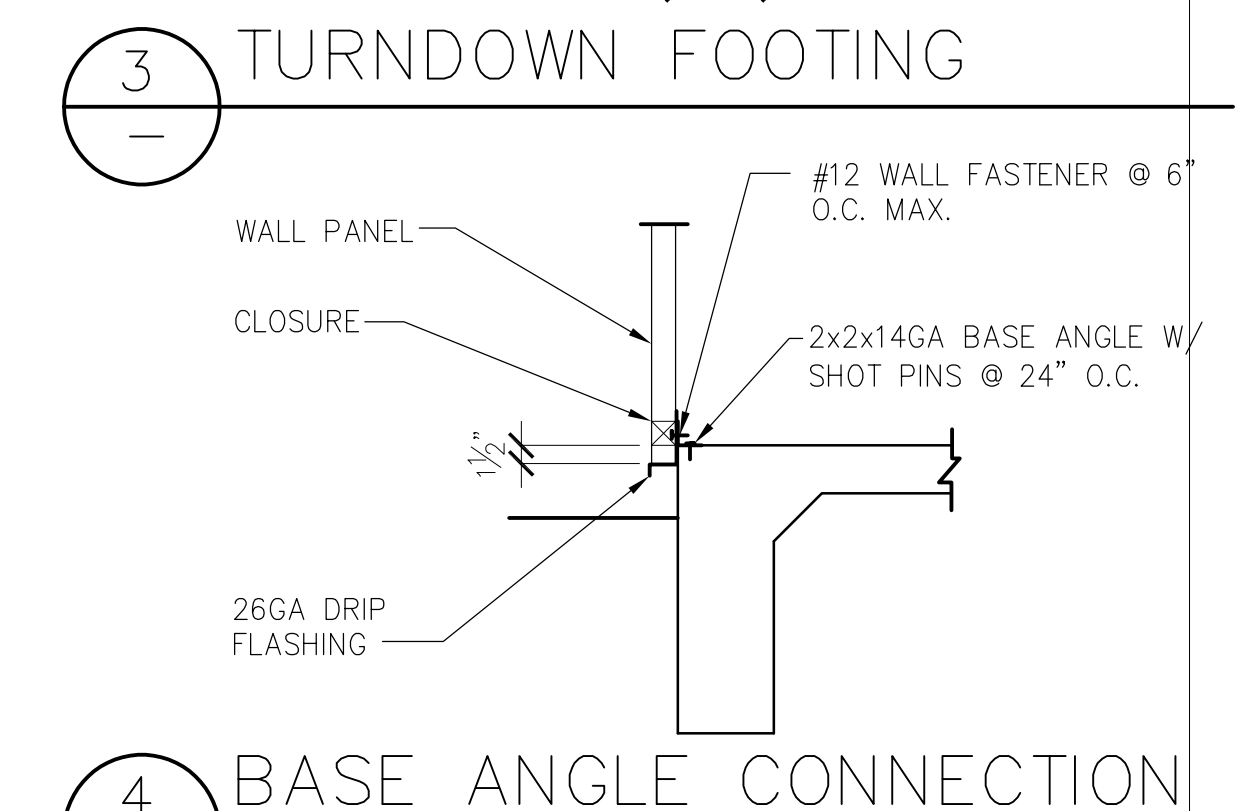
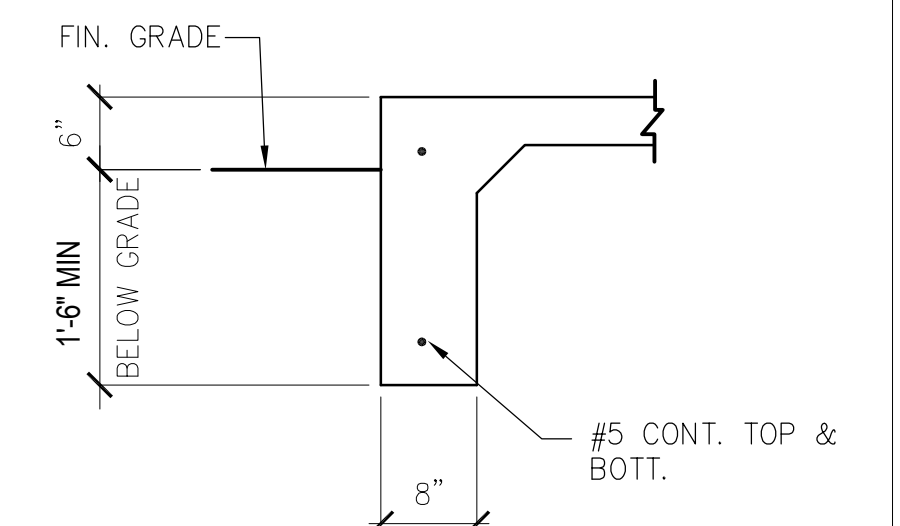
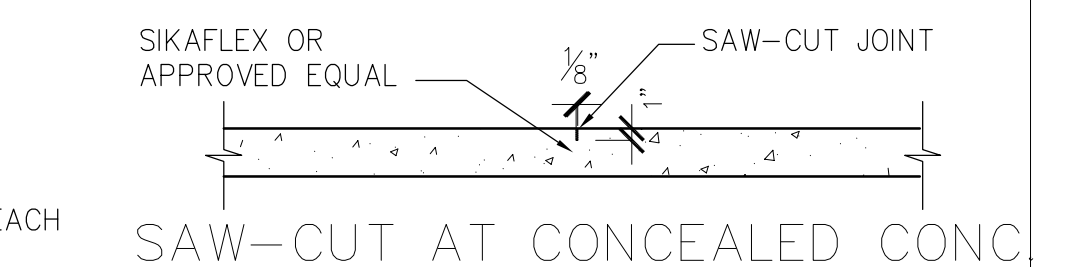
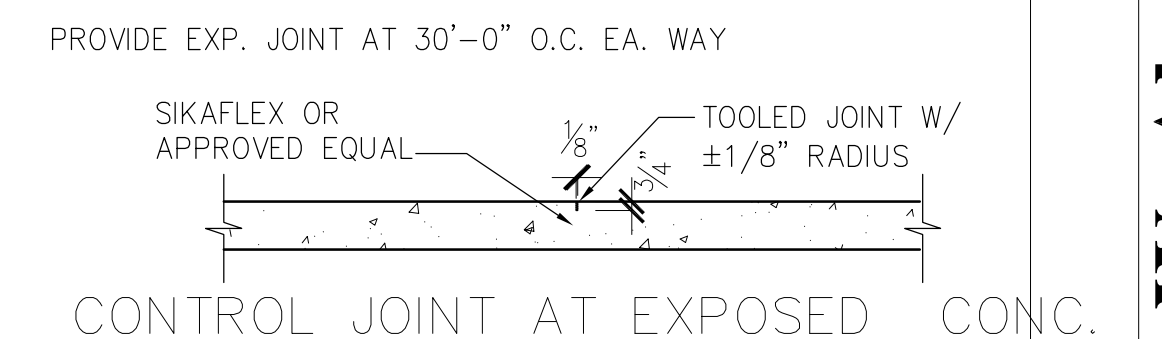
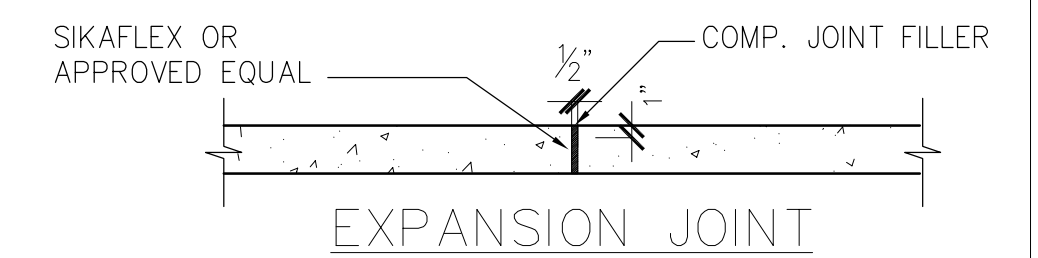
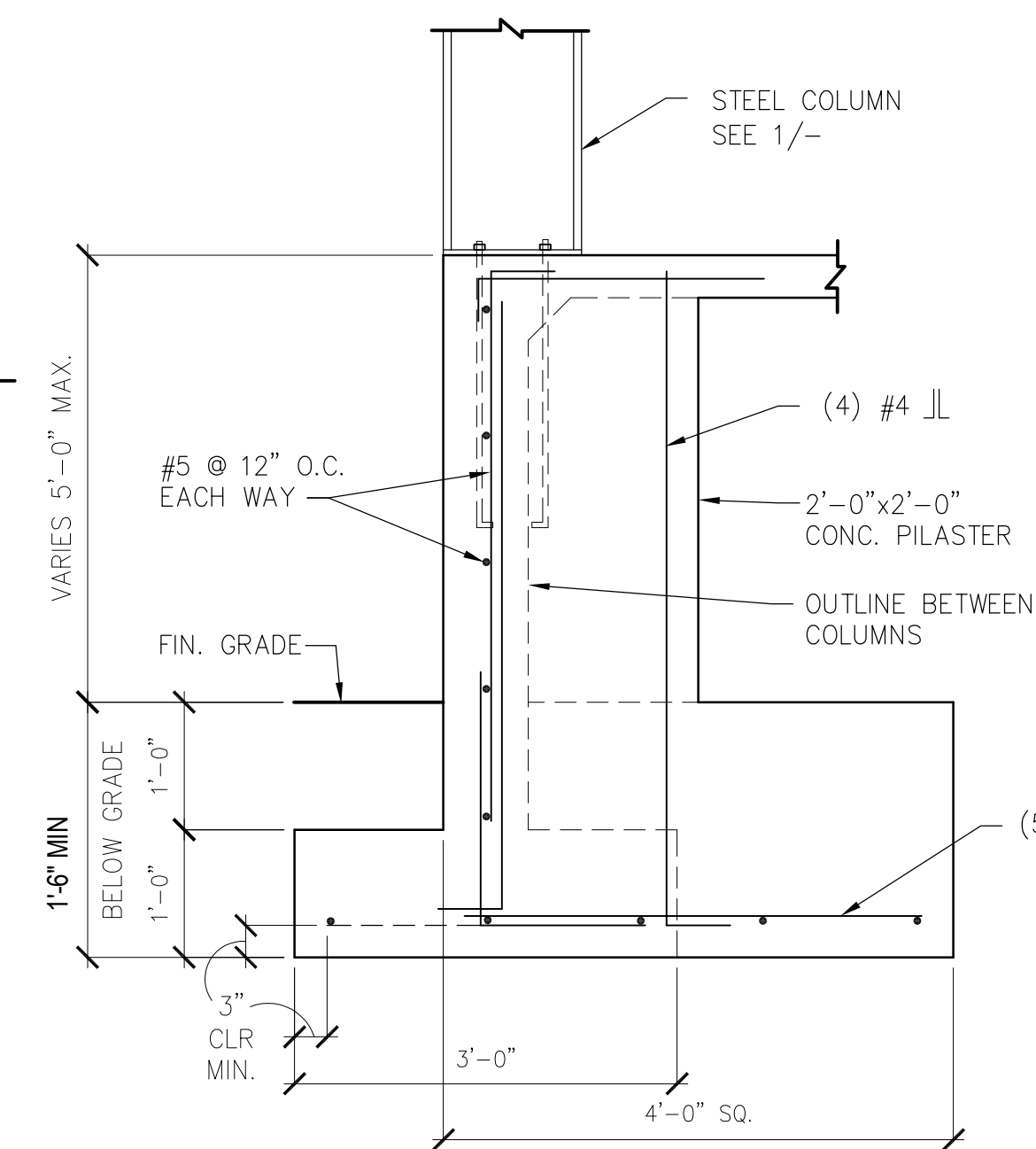
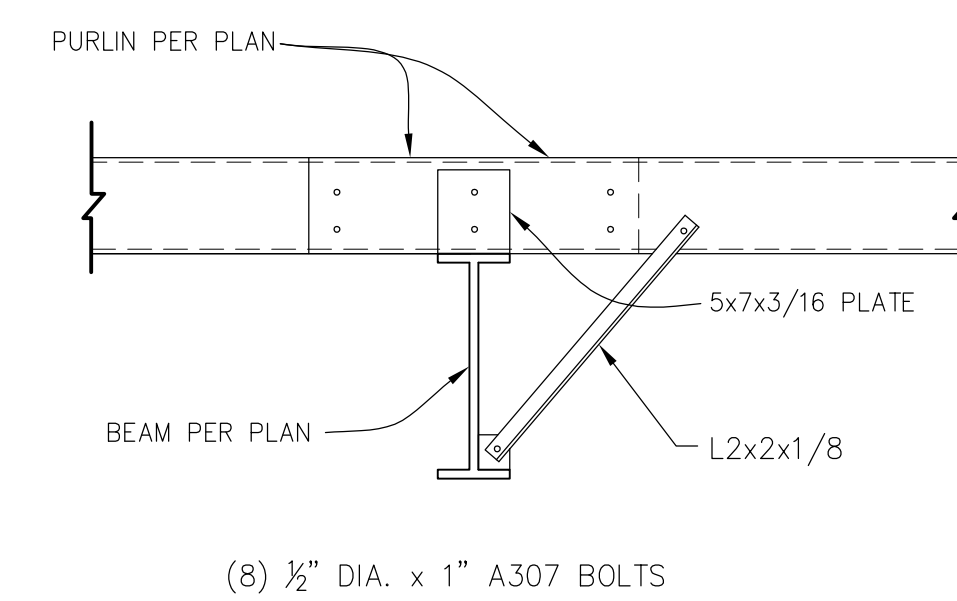
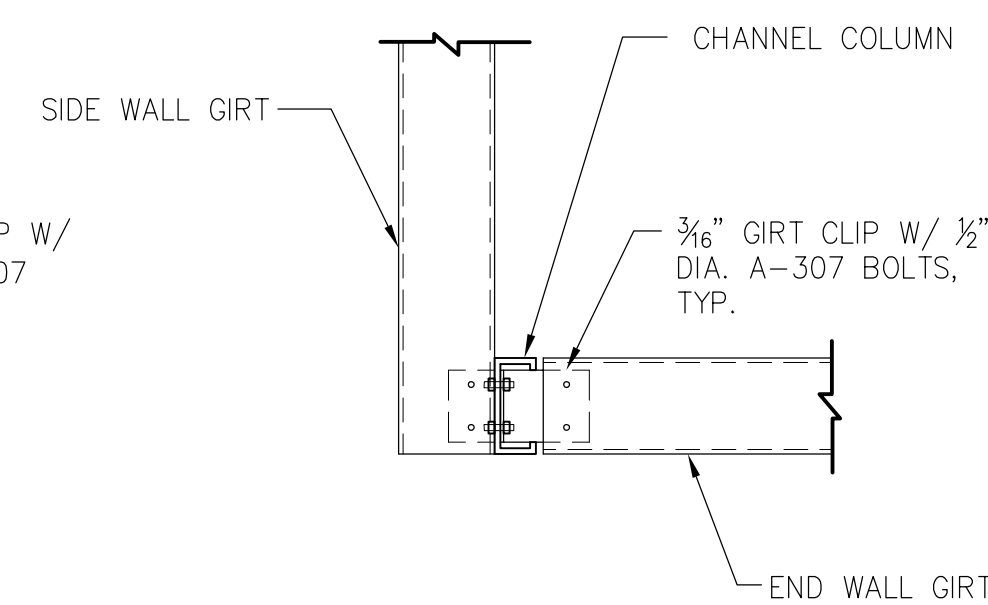
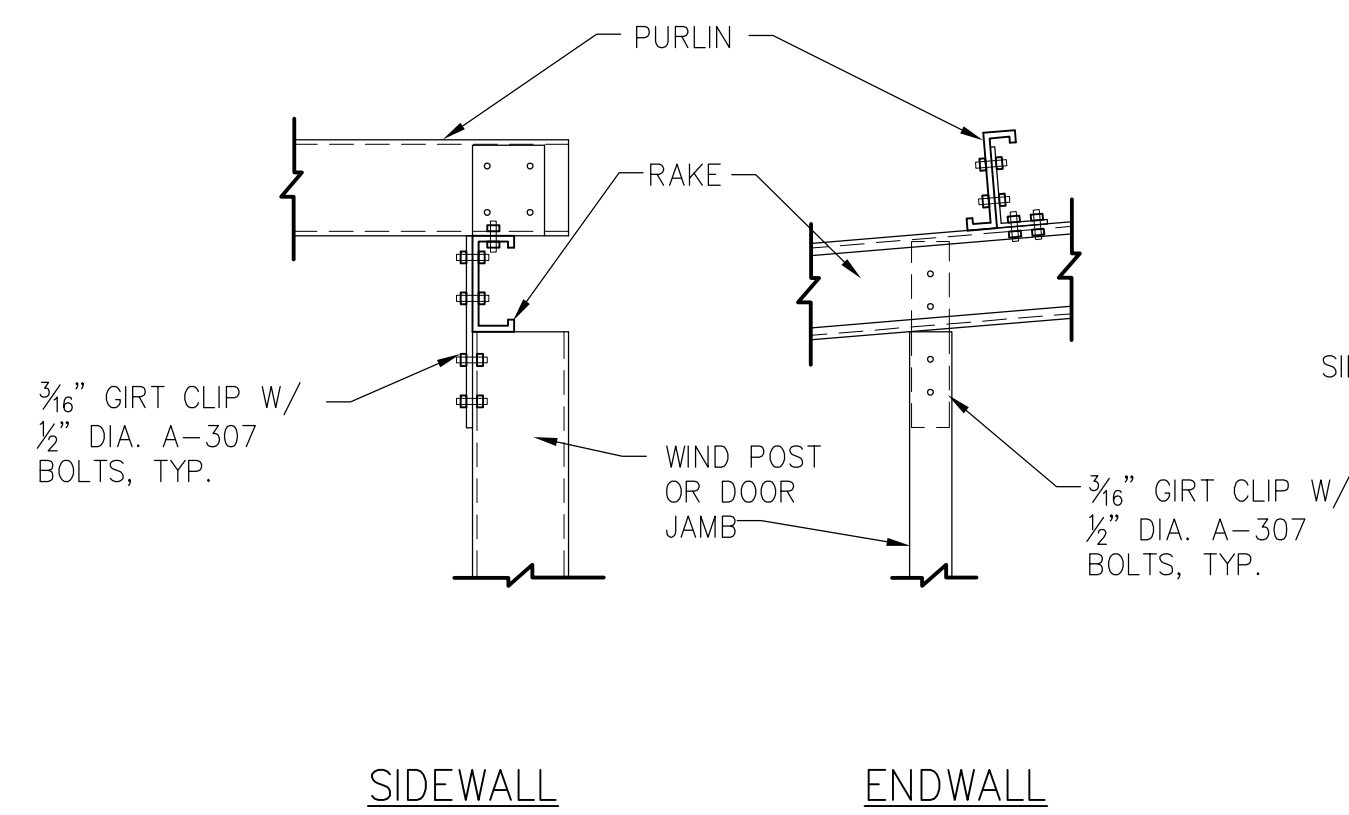
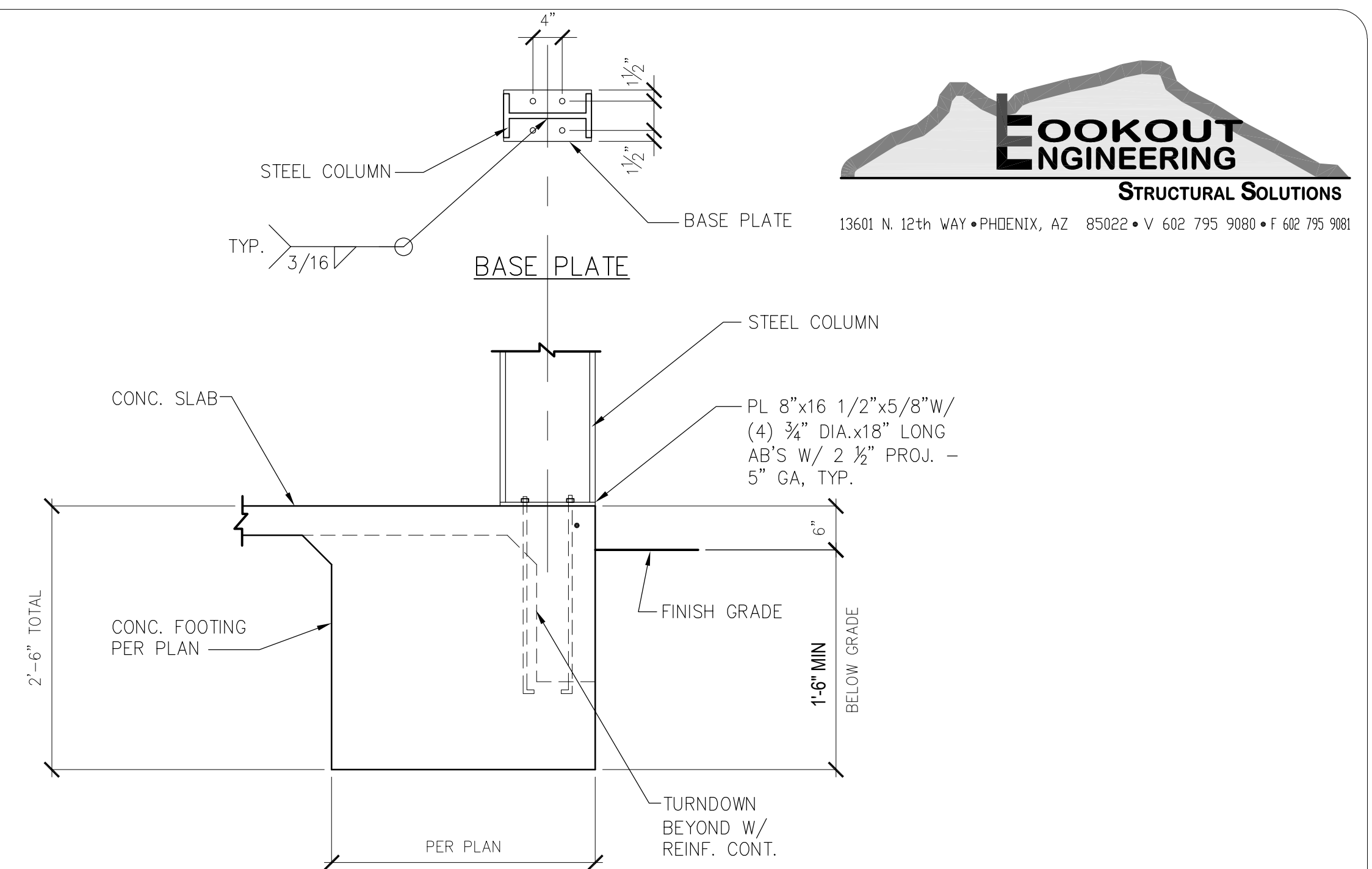
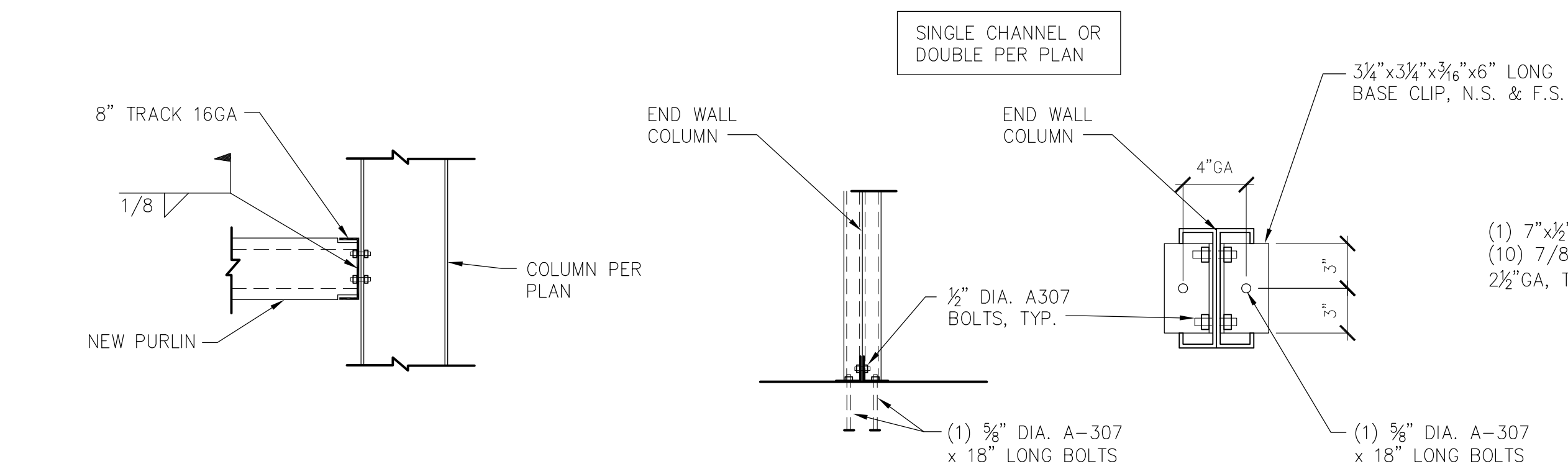
**APN:** 306-29-029C

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**S3**







* PART	APPLICATION
CL1	1/4" CABLE OR 1/2" ROD
CL2	5/16" CABLE OR 5/8" ROD
CL3	3/8" CABLE
CL4	1/2" CABLE
CL5	3/4" ROD
CL6	1" ROD
CL7	1 1/4" ROD

BASE CABLE ANCHOR \*

BASE CABLE  
ANCHOR CL8  
OR CL9



May 09, 2022 - 6:33pm

JOB# 22-24

ELECTRICAL DESIGN & CADD SERVICES INC.

1600 LAMB LANE

PRESCOTT, AZ. 86305

PH: (928) 776-4900

CELL: (928) 420-1200

E-MAIL: [archie@elecdesign.net](mailto:archie@elecdesign.net)

REVISIONS

BY

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ANGELLO OSSANNA

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EXPIRES 12/30/2024

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ARCHITECTURE & PLANNING

P.O. Box 11593

Prescott, AZ 86304

DRAWING: Electrical Site Plan

PROJECT:

Olsen's Grain Storage Building

344 S. State Route 89

Chino Valley, AZ 86323

APN:

306-29-029C

DRAWN BY

R.A.

CHECKED BY

A.O.

DATE

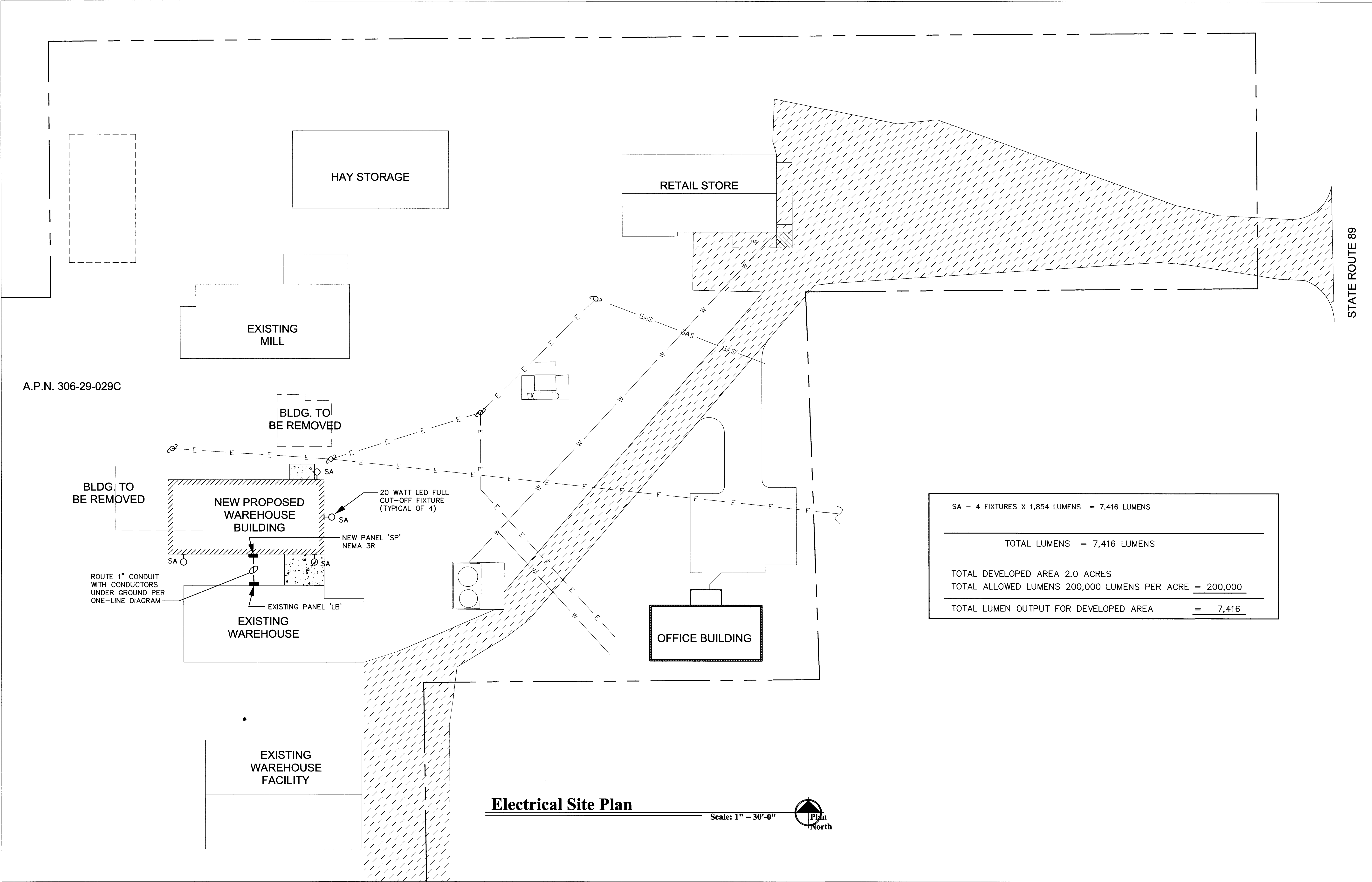
April 8th, 2022

JOB NO.

785

SHEET

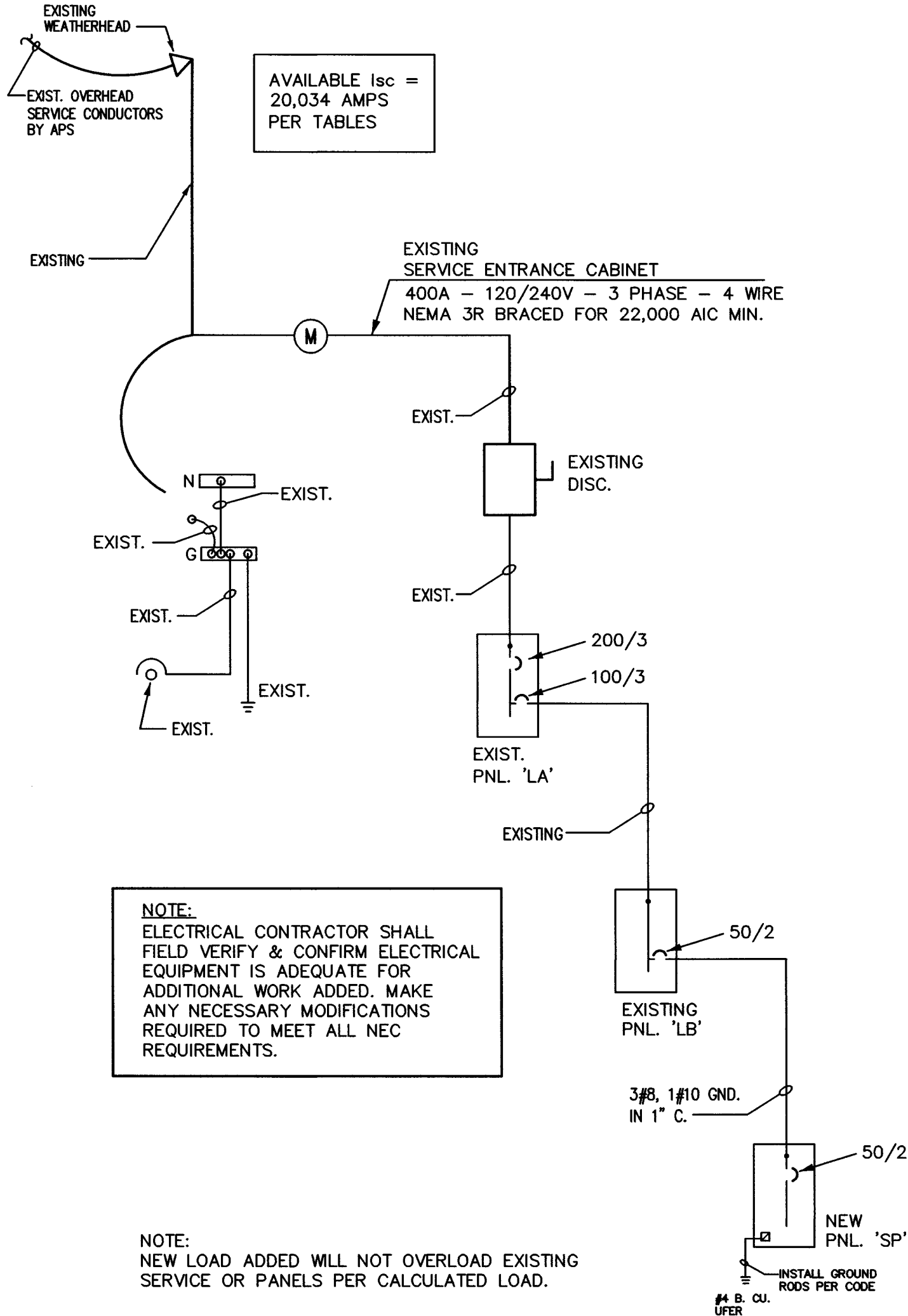
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Electrical Site Plan

Scale: 1" = 30'-0"

North



## EXISTING ONE LINE DIAGRAM

N.T.S.

### PANELBOARD SYMBOLS

- \* CONTINUOUS DUTY/LARGEST MOTOR @ 125%
- EXISTING BREAKER W/ EXISTING LOAD
- △ NEW BREAKER W/ NEW LOAD

### EXISTING PANEL

PANELBOARD				LB		SCHEDULE			
MAINS: 100A MLO				LOAD-VA		LOCATION: SEE SITE PLAN			
VOLTAGE: 120 /240V, 3ø, 4W						MOUNTING: SURFACE (NEMA 3R)			
TYPE: GE (EXISTING)						MIN. A.I.C.: 10,000			
CIRCUIT DESCRIPTION		BKR.	CIR. NO.	øA	øB	øC	CIR. NO.	BKR.	CIRCUIT DESCRIPTION
NEW SUB-PANEL 'SP'		50	1				2	70	EXISTING EQUIP.
				1900					
50A C/B 2-POLE		2	3				4		
					450				
SPACE			5				6	3	
EXISTING EQUIP.		20	7				20	1	EXIST. WAREHOUSE LIGHTS
			9				8		
			11				10		
		3					20	1	EXIST. WAREHOUSE RECEPTS.
			13				12		
			15				14		
			17				16		
			19				18		
			21				20		
			23				22		
							24		
TOTAL LOAD PER PHASE: EXISTING ESTIMATED LOAD:				7800	7800	7800	H# 7800 / 120 = 65.0 AMPS		
NEW ADDED LOAD:				1900	450		H# 1900 / 120V = 15.8 AMPS		
TOTAL LOAD:				9700	8250	7800	H# 9700 / 120V = 80.8 AMPS		

### GENERAL POWER NOTES:

- ELECTRICAL CONTRACTOR SHALL VERIFY MOUNTING HEIGHT OR LOCATION OF ANY ELECTRICAL EQUIPMENT AND OR DEVICES HE IS TO VERIFY ITEMS WITH ELECTRICAL ENGINEER, ARCHITECT OR OWNER PRIOR TO ROUGH-IN.
- ALL RECEPTACLES IN AREAS WITHIN 6'-0" OF A SINK SHALL BE GFCI TYPE PER NEC
- EXTERIOR & ROOF MOUNTED MAINT. RECEPT'S. SHALL BE WP, GFCI TYPE PER NEC
- ELECTRICAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT REQUIREMENTS BREAKER, DISC. & WIRE SIZE WITH MANUFACTURER PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR IS APPROVED TO USE SURFACE MOUNTED RECEPTACLES & CONDUIT IN WAREHOUSE VERIFY PRIOR TO ROUGH-IN.
- ALL RECEPTACLES IN WAREHOUSE AREA TO BE INSTALLED AT +48" A.F.F. GFCI TYPE.

### ELECTRICAL SYMBOLS

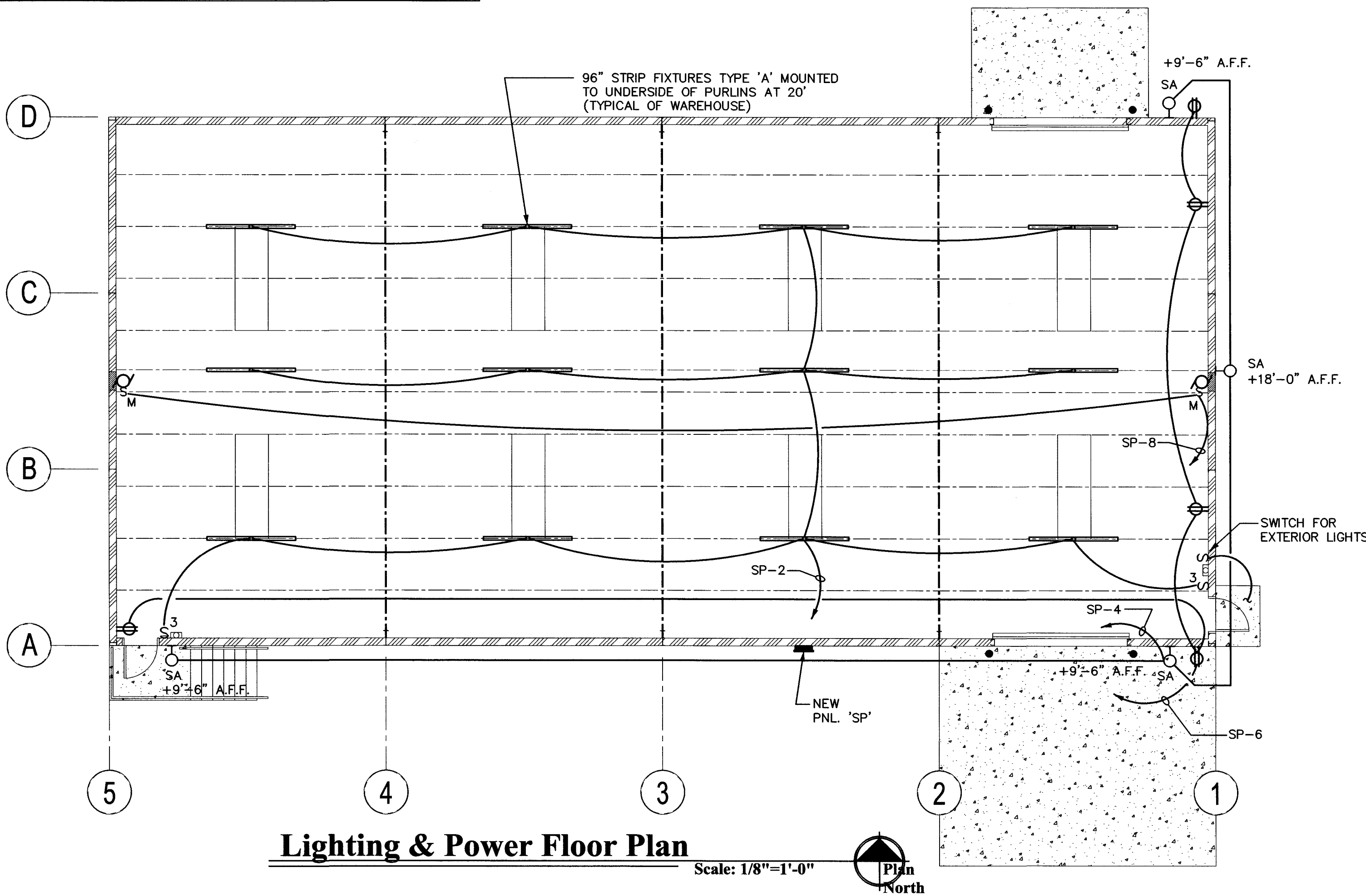
NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT

- FLUORESCENT STRIP FIXTURE.
- CEILING OR WALLMOUNTED FIXTURE.
- JUNCTION BOX
- S SINGLE POLE SWITCH, + 48" A.F.F. (20A-120/277V)
- S<sub>3</sub> THREE WAY SWITCH, + 48" A.F.F. (20A-120/277V)
- D DUPLEX RECEPTACLE, + 18" A.F.F. (20A)  
D-INDICATES DEDICATED RECEPTACLE
- DISCONNECT SWITCH, FUSE PER EQUIPMENT MANUFACTURER'S RECOMMENDATION. OUTSIDE NEMA 3R - N.F. = NON-FUSED.
- E EQUIPMENT TERMINATION CONNECTION POINT VERIFY EXACT LOCATION LOAD AND VOLTAGE AS NOTED
- MOTOR
- SM THERMAL PROTECTED SWITCH
- DISTRIBUTION PANELBOARD.
- BRANCH CIRCUIT PANELBOARD.
- CONDUIT BELOW FLOOR OR UNDERGROUND
- CONDUIT IN WALL OR ABOVE CEILING
- HOMERUN TO PANEL

Schedule									
Symbol	Label	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	Lumen Multiplier	LLF
	A	Lithonia Lighting	CLX196 14000LM SEF WDL MVOLT GZ10 40K 80CRI WH	CLX LED Linear 96" 14,000 lumens, Standard Efficiency, Less lower, Flat diffuse lens, General distribution, MVOLT, 0-10V dimming, 4000 CCT, 80 CRI	4000K LED	1	14,000	1	85.32
	SA	Lithonia Lighting	OLWX1 LED 20W 40K 80CRI VW MVOLT SRM (FINISH)	LED FULL CUT-OFF WALL LUMINAIRE	3000K LED	1	1854	1	0.91

### GENERAL LIGHTING NOTES:

- IF ELECTRICAL CONTRACTOR IS NOT CERTAIN OF MOUNTING HEIGHT OR LOCATION OF ANY LIGHTING FIXTURES OR SWITCHES HE IS TO VERIFY ITEMS WITH ELECTRICAL ENG., ARCHITECT OR OWNER PRIOR TO ROUGH-IN.



## Lighting & Power Floor Plan

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



## SPECIFICATIONS

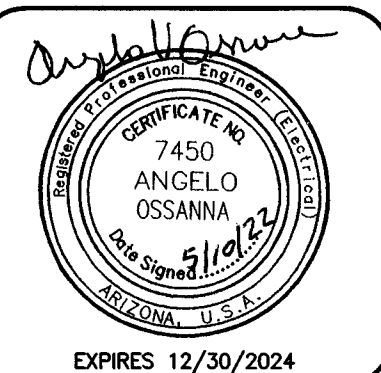
- PRIOR TO SUBMITTING BID, SUBCONTRACTORS SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH IN ANY WAY AFFECTS THE WORK UNDER HIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
- THE SUBCONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND /OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THE CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND BUILDING DETAILS. VERIFY LOCATION OF ALL OUTLETS, SWITCHES, AND WALL MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND ACTUAL CONDITIONS. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES.
- PRIOR TO ROUGH-IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT.
- GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.
- BRANCH CIRCUIT WIRING SHALL BE THHN/THWN INSULATION. PANEL FEEDERS SHALL BE TYPE XHHW. ALL WIRE SHALL BE COPPER. MINIMUM WIRE SIZE SHALL BE #12.
- ALL WIRING TO BE INSTALLED IN RACEWAYS. TYPE OF RACEWAY SHALL BE AS REQUIRED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
- PROVIDE CODE SIZED BOND WIRE IN ALL EMT, FLEXIBLE CONDUIT
- ALL ELECTRICAL EQUIPMENT SHALL BE NEW, U.L. APPROVED AND COMMERCIAL GRADE.
- WIRE RATED FOR 150° CENTIGRADE SHALL BE USED FOR ALL INCANDESCENT LIGHTING FIXTURES.
- ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL CODE, (N.E.C.), AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- PROVIDE TYPEWRITTEN DESCRIPTIVE PANEL DIRECTORIES

**ELECTRICAL DESIGN & CADD SERVICES INC.**  
1600 LAMB LANE  
PRESCOTT, AZ. 86305  
PH: (928) 778-4900  
CELL (928) 420-1200  
E-MAIL: archie@elecdesign.net

JOB# 22-24

REVISIONS	BY

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**ARCHITECTURE & PLANNING**

**DRAWING:** Lighting & Power Floor Plan With Panel Schedules & One-Line Diagram

**PROJECT:** Olsen's Grain Storage Building  
344 S. State Route 89  
Chino Valley, AZ 86323

**APN:** 306-29-029C

DRAWN BY R.A.
CHECKED BY A.O.
DATE April 8th, 2022
JOB NO. 785
SHEET

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