

Yavapai Mechanical Building Addition

PRESCOTT VALLEY, ARIZONA

Area Map



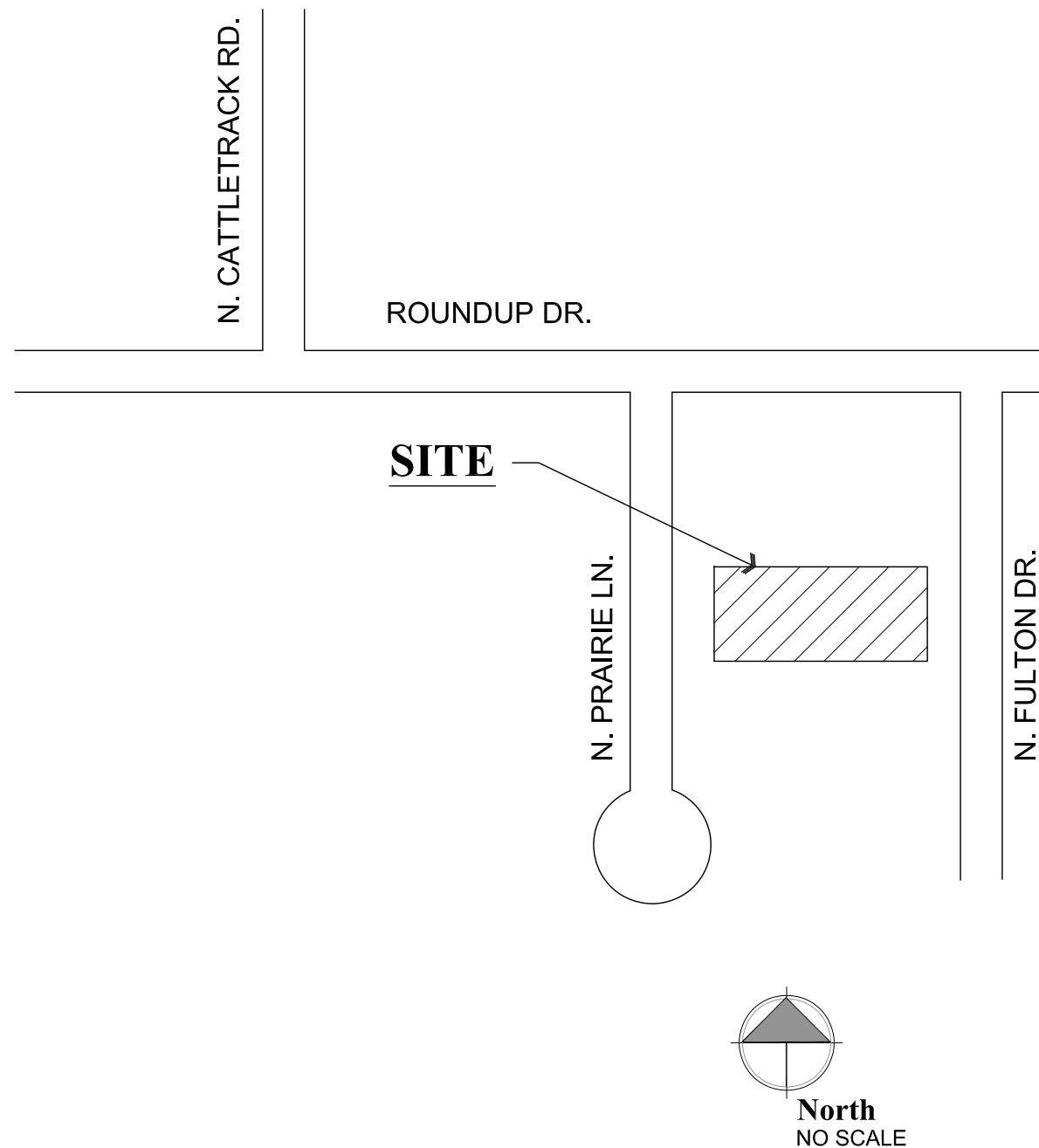
Deferred Submittals

The following items are required and will be provided as a deferred submittal:

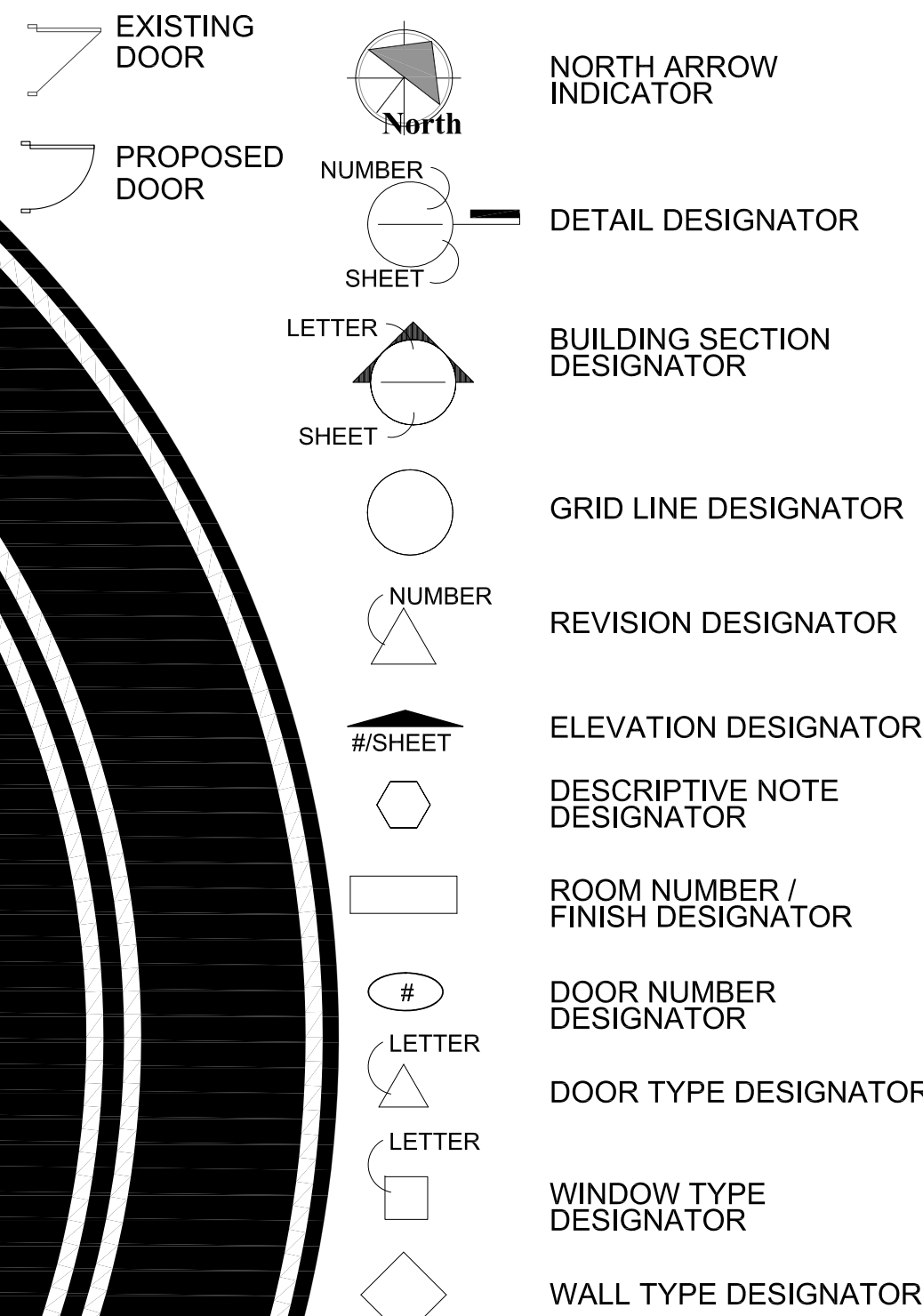
- Automatic Fire Sprinkler System.
- Fire Alarm System.

Automatic Fire Sprinkler System & Fire Alarm System submittal documents for deferred submittal shall be submitted to the local fire district, who shall review them and forward them to the building official, with a notation indicating that the deferred submittal documents have been reviewed and that they have been found to be in general conformance with the design of the building. The deferred submittal items shall "NOT" be installed until their design and submittal documents have been approved by the fire marshal having jurisdiction.

Vicinity Map



Graphic Standards



Project Information

CLIENT: Yavapai Mechanical
5860 N. Fulton Dr.
Prescott Valley, AZ 86314

PH: 928-776-7025
Contact: Jeremy Rushton
jrushton@ypeinc.com

PREPARED BY: W. Alan Kenson & Assoc., P.C.
P.O. Box 11593
Prescott, AZ 86304

PH: 928-443-5812
Contact: Alan Kenson
WAKA@cableone.net

CONTRACTOR: Kenson Construction
6135 Corsair Ave.
Prescott, AZ 86301

JOBSITE ADDRESS: 5914 N. Fulton Dr.
Prescott Valley, AZ

PARCEL NUMBER: 103-33-297B

ZONING: C3 Commercial

CONST. TYPE: II-B

OCCUPANCY: F2

EXISTING BLDG: Existing 3,578 S.F.
EXISTING BLDG: Existing 4,472 S.F.
PROPOSED ADDITION: Proposed 1st Floor: 3,120
2nd Floor: 2,045
TOTAL: Total: 13,215 S.F.

BUILDING CODES: 2012 International Building Code
2012 International Plumbing Code
2012 International Mechanical Code
2012 International Fuel Gas Code
2012 International Fire Code
2011 National Electric Code
2006 International Energy Conservation Code
2010 ADA Standards for Accessible Design

PARKING REQUIREMENTS: Parking is existing and adequate

Sheet Index

ARCHITECTURAL

CS1 Cover Sheet / Project Information
CS2 Occupancy / Egress and Code Summary
C1.0 Civil Cover Sheet
C1.1 Architectural / Utilities Site Plan
C1.2 Site Details
C1.3 Grading and Drainage Plan
A1.0 Demolition Plan
A2.0 Reference Floor Plans and Dimension Plans
A3.0 Reflected Ceiling Plan
A4.0 Roof Plan
A5.0 Building Sections
A5.1 Stair plans, Sections and Details
A5.2 Guardrail Elevation and Detail
A6.0 Exterior Elevations
A7.0 Door Schedule and Materials Schedule

STRUCTURAL

S1 General Structural Notes
S1.1 Typical Details
S2 Foundation Plan
S3 Framing Plans
S3.1 Structural Elevations
S4 Foundation Details
S5 Framing Details

MECHANICAL / PLUMBING

MP-1 Mechanical & Plumbing Plans and Notes

ELECTRICAL

E1.0 Lighting and Power Floor Plan with Notes
E1.1 Electrical Site Plan, One-Line Diagram, Panel Schedule and Notes

Project Description

YAVAPAI MECHANICAL INTENDS TO CONSTRUCT A BUILDING ADDITION BETWEEN TWO EXISTING BUILDINGS. A FIRE RISER WITH FIRE SPRINKLER SYSTEM AND FIRE ALARM SYSTEM WILL BE ADDED. UNIT HEATERS AND EVAPORATIVE COOLING WILL ALSO BE PROVIDED IN THE NEW PORTION OF THE BUILDING. THE ADDITION WILL BE CONSTRUCTED TO MATCH THE EXISTING BUILDINGS USING STEEL CUSTOM STRUCTURE.

Architect:

W. Alan Kenson & Associates, P.C.

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ARCHITECTURE & PLANNING



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ARCHITECTURE & PLANNING

DRAWING: Cover Sheet

PROJECT: Yavapai Mechanical Building Addition
5914 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY
L.O.
CHECKED BY
W.A.K.
DATE
August 1st, 2019
JOB NO.
733
SHEET

CS1

REVISIONS

BY

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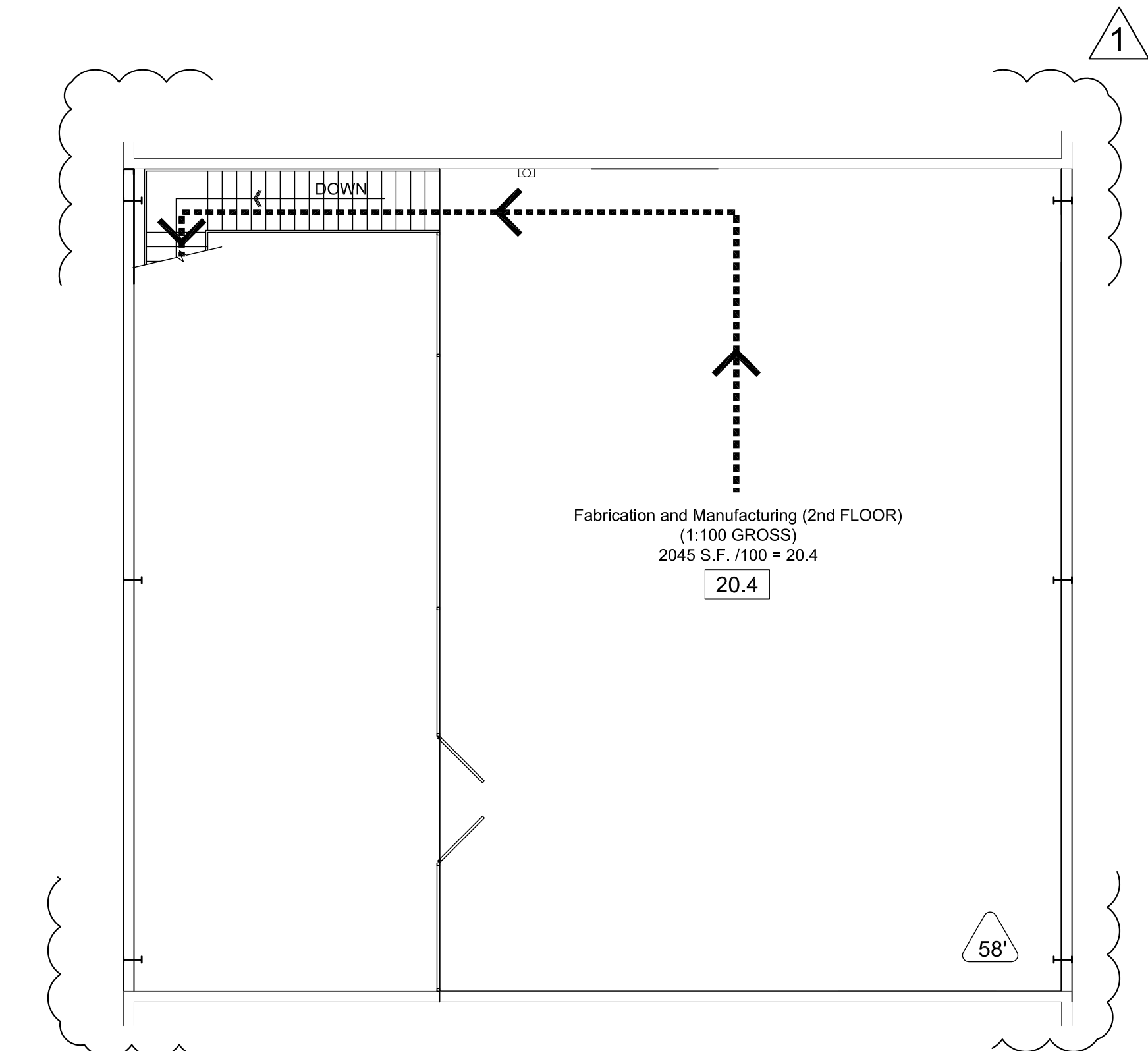
Town of PV COMMENTS
7/25/19, 7/30/19, 8/5/19

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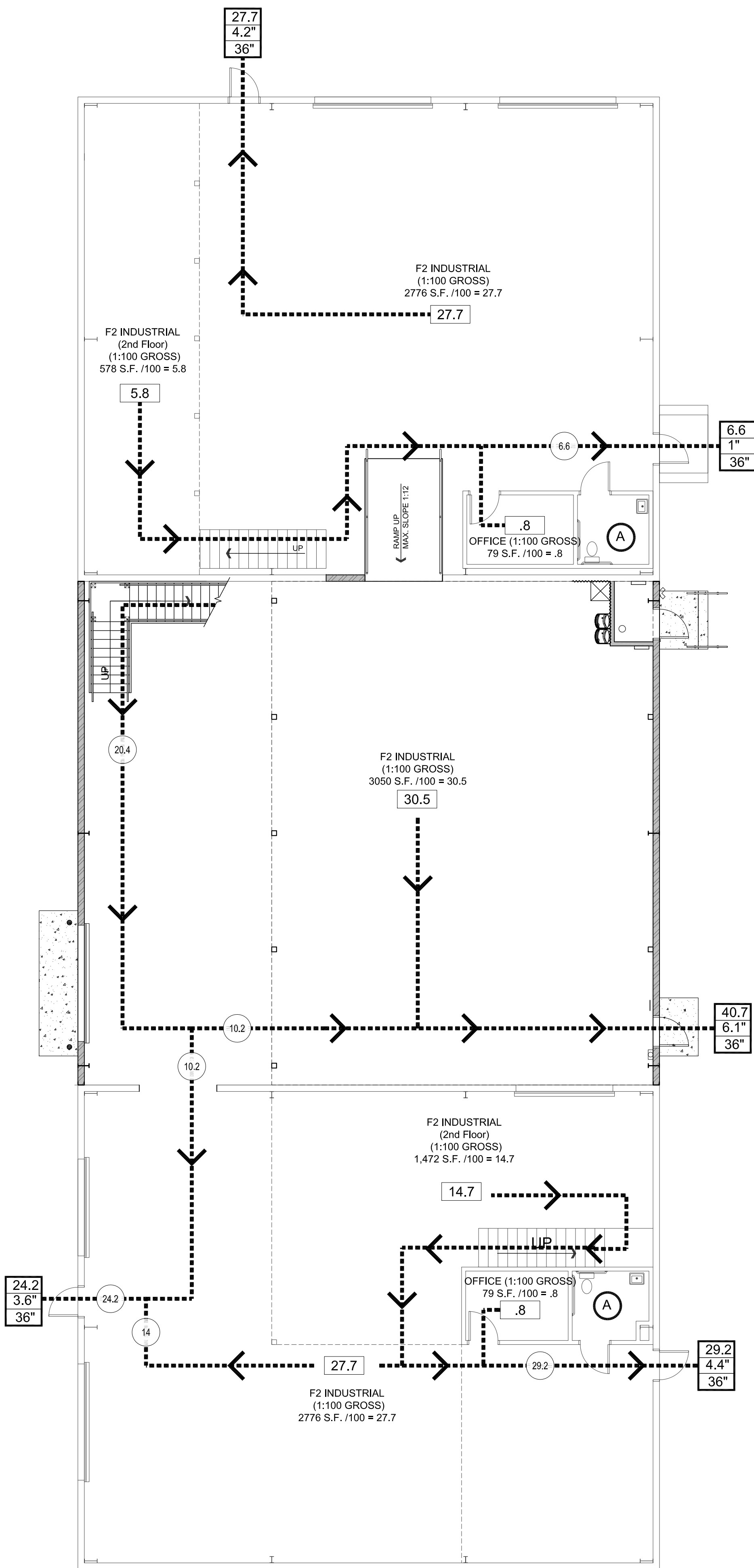
Plumbing Calculations

	OCCUPANCY CLASSIFICATION	OCCUPANCY COUNT	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK
	FACTORY & INDUSTRIAL	129	1.3	1.3	1	1
TOTAL REQUIRED			1.3	1.3	1	1
TOTAL EXISTING			2 (SINGLE USER ACCESSIBLE)	2	2 NEW	1 NEW



A1 Occupancy / Egress Second Floor Plan

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



A2 Occupancy / Egress First Floor Plan

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



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 = 0.15) PROVIDED EXIT WIDTH
#	WORST CASE TRAVEL DISTANCE
FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
F1 INDUSTRIAL OFFICE	100 GROSS 100 GROSS

Occupant load

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

OFFICE AREA:	158 SQ. FT.	1.5 OCCUPANTS
FI INDUSTRIAL:	12,697 SQ. FT	127 OCCUPANTS
TOTAL:	12,855 SQ. FT.	129 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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Town of PV COMMENTS
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25646
W. ALAN
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001-519-0700
ARIZONA
EXPIRES: 6/30/21

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ARCHITECTURE & PLANNING

DRAWING: Occupancy / Egress Plans and Code Summary

PROJECT: Yavapai Mechanical Building Addition
8914 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE August 1st, 2019
JOB NO. 733
SHEET

CS2

1

2

REVISIONS

BY

Town of PV COMMENTS

7/25/19, 7/30/19, 8/5/19

LO

Town of PV COMMENTS

8/30/19

LO

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W. Alan Kenson

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W. ALAN KENSON

07/09/19

ARIZONA

EXPIRES: 6/30/21

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ARCHITECTURE & PLANNING

DRAWING:

Civil Cover Sheet

PROJECT:

Yavapai Mechanical Building Addition

5914 N. Fulton Dr.

Prescott Valley, AZ 86314

103-33-297C

APN:

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DRAWN BY

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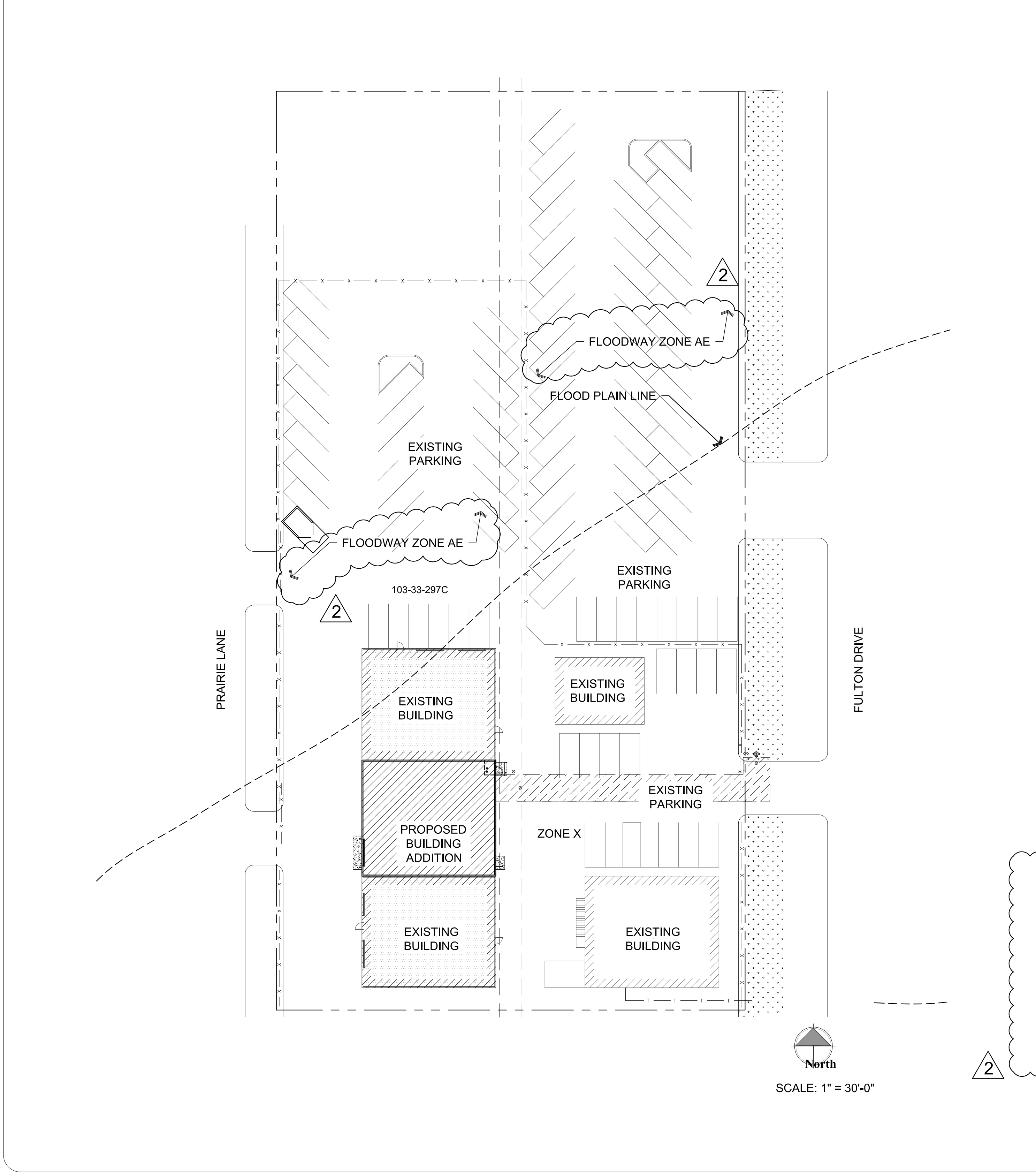
C1.0

1

Yavapai Mechanical Building Addition

CIVIL COVER SHEET

Site Map



Project Information

OWNER:	Yavapai Mechanical 5860 N. Fulton Dr. Prescott Valley, AZ 86314	(928) 776-7025 Contact: Jeremy Rushton jrushton@ypeinc.com
PREPARED BY:	W. Alan Kenson & Associates, P.C. P.O. Box 11593 Prescott, AZ 86304	(928)-443-5812 Contact: Alan Kenson, AIA waka@cablcone.net
GEOTECHNICAL:	Engineering & Testing Consultants 417 N. Arizona Street Prescott, AZ 86301	(928-778-9001) Contact: Rick Kelley rick@etcaz.com
PROJECT ADDRESS:	5860 N. Fulton Dr. Prescott Valley, AZ	
PARCEL #:	103-33-297C	
ACREAGE:	1.99 Acres	
OCCUPANCY:	Fabrication and Manufacturing	

Sheet Index

CIVIL
C1.0 Civil Cover Sheet
C1.1 Architectural / Utilities Site Plan
C1.2 Site Details
C1.3 Grading and Drainage Plan

Utility Contact Info.

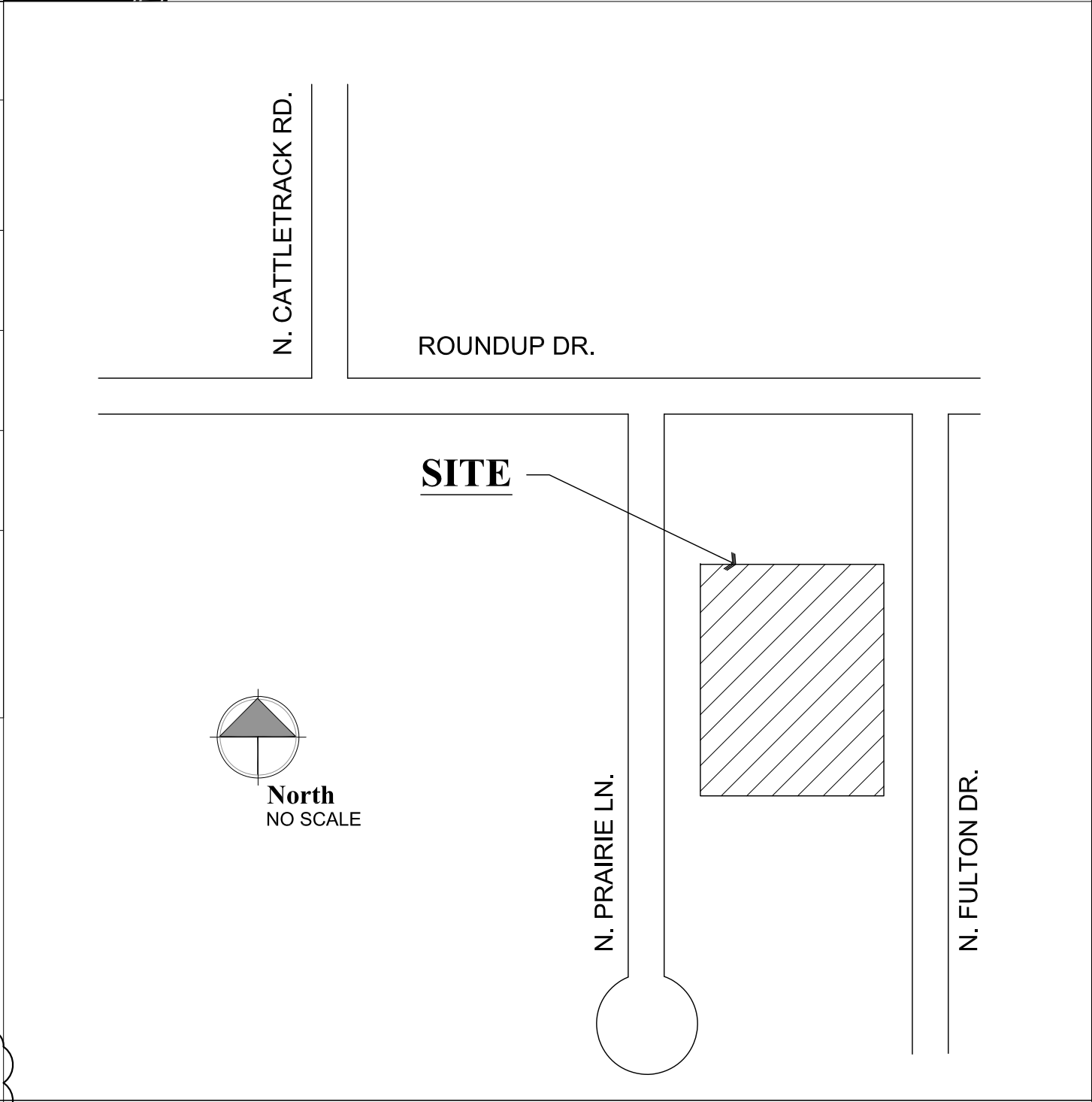
UTILITY	COMPANY	CONTACT	PHONE
ELECTRIC / POWER	ARIZONA PUBLIC SERVICE CO. 6672 CORSAIR AVE. PRESCOTT, AZ 86301	SHERYL McCRACKEN	928-961-6779
PHONE / COMMUNICATION	CENTURY LINK 1445 MASONRY WAY PRESCOTT, AZ 86301	ARMEN McNERLIN	928-821-4609
NATURAL GAS	UNISOURCE 6405 WILKINSON DR. PRESCOTT, AZ 86301	MALI ROSS	928-771-7227
CABLE TELEVISION	CABLEONE 3801 TOWER RD. PRESCOTT, AZ 86301	DOUG HAMILTON	928-443-3305
WATER & SEWER	TOWN OF PRESCOTT VALLEY 7501 EAST CIVIC CIRCLE PRESCOTT VALLEY, AZ 86314	NEIL WADSWORTH	928-759-3078

CALL TWO WORKING DAYS BEFORE YOU DIG
1-800-STAKE-IT
1-800-782-5348
(OUTSIDE MARICOPA COUNTY)

FEMA Information

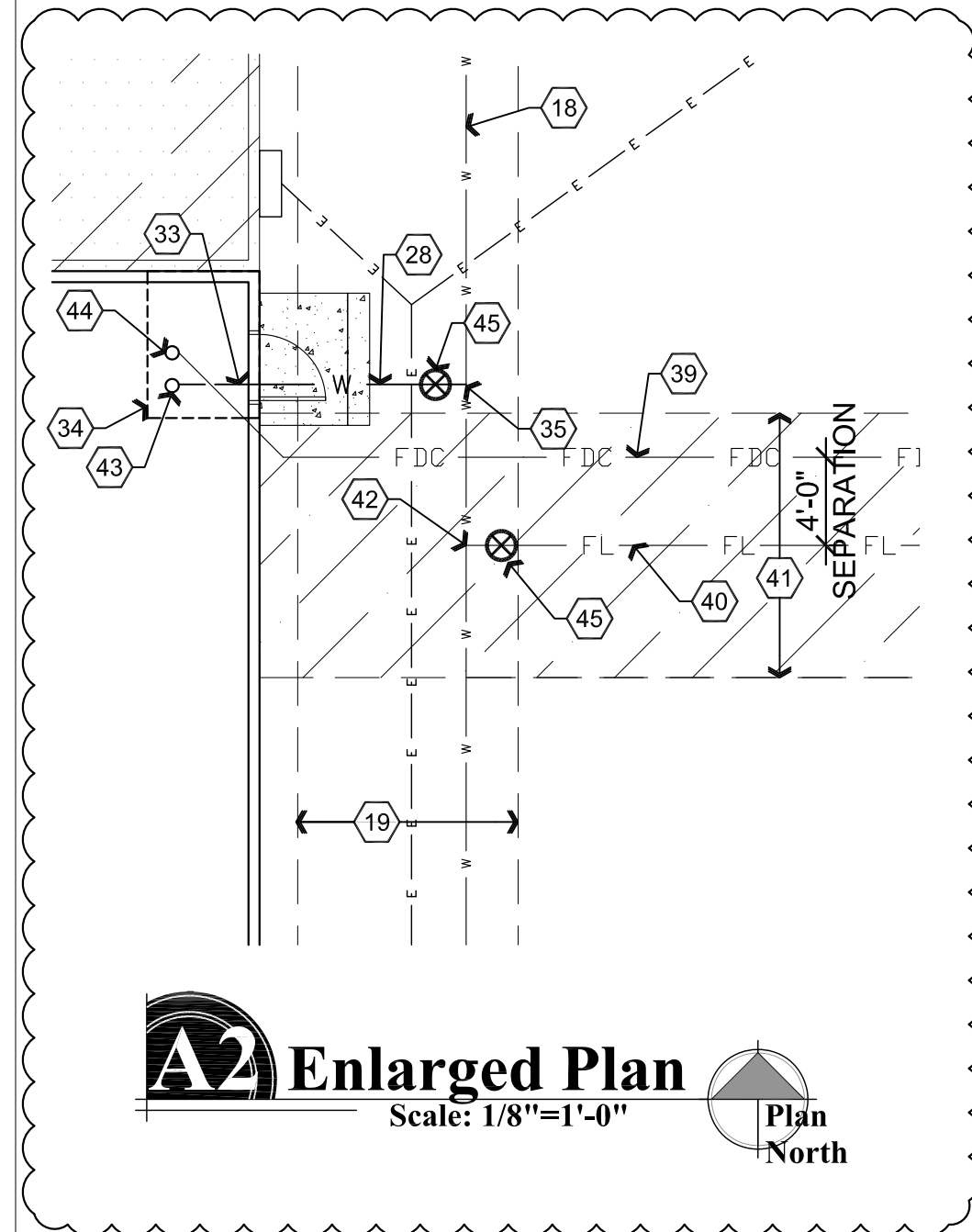
FEMA floodway zone: AE
Map panel: 04025C1714G eff. 9/3/2010

Site / Vicinity Map



Approval

Approved By _____
Town of Prescott Valley
Date _____



A1 Architectural / Utilities Site Plan

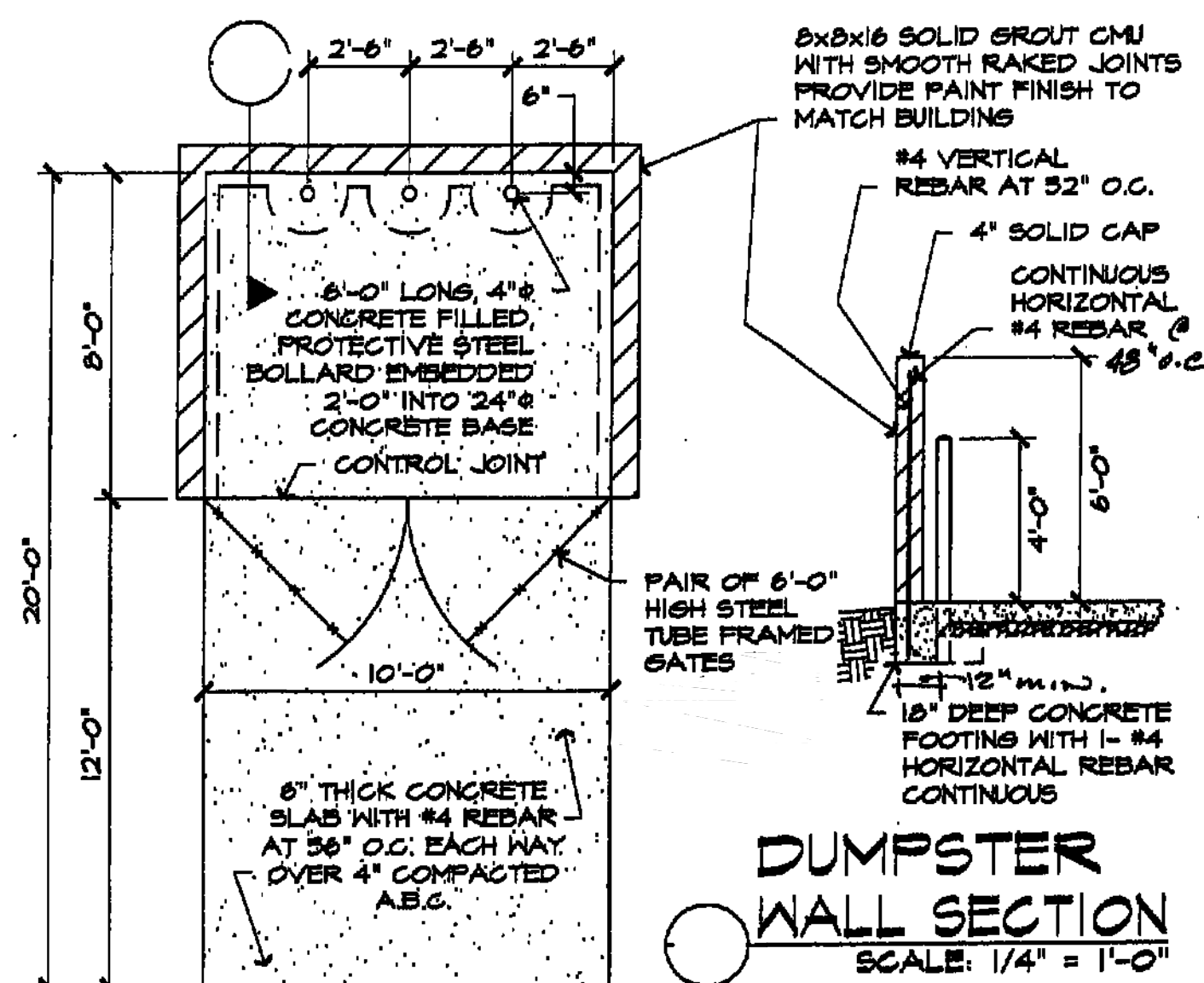
Scale: 1"=20'-0"



Descriptive Keynotes

1. EXISTING LANDSCAPING.
2. EXISTING ASPHALTIC PAVEMENT.
3. EXISTING CHAIN LINK FENCE.
4. EXISTING ELECTRIC POWER POLE.
5. EXISTING SLIDING GATE.
6. EXISTING PARKING LOT.
7. EXISTING 3,000 S.F. 1-STORY BUILDING WITH MEZZANINE.
8. EXISTING 6,000 S.F. 2-STORY OFFICE BUILDING.
9. EXISTING 1,200 S.F. 1-STORY BUILDING.
10. EXISTING RIP RAP W/ DRAINAGE CHANNEL
11. PROPERTY LINE.
12. EXISTING NATURAL GAS METER.
13. EXISTING TRASH DUMPSTER TO BE REMOVED.
14. EXISTING CULVERT.
15. EXISTING MECHANICAL ROOM
16. THE 90 DEGREE FITTINGS FOR THE NEW WATER LINE SERVING THE FIRE HYDRANT AND THE LINE FOR THE FDC ARE TO BE RESTRAINED PER THE QUAD CITY STANDARD DETAILS 303Q-1 AND 303Q-2, OR THRUST BLOCKED PER MAG 380.
17. EXISTING WATER METER.
18. EXISTING 6" WATER MAIN.
19. EXISTING UTILITIES EASEMENT.
20. EXISTING ELECTRICAL SES.
21. EXISTING ELECTRICAL TRANSFORMER.
22. EXISTING STAIRS.
23. EXISTING SEWER MAIN.
24. EXISTING 4" ABS SEWER LINE, REFER TO PLUMBING PLANS.
25. EXISTING NATURAL GAS LINE, REFER TO PLUMBING PLANS.
26. EXISTING WATER LINE, REFER TO PLUMBING PLANS.
27. PARKING SPACES TO BE REMOVED.
28. INSTALL PRIVATE 6" FIRE LINE (C-600/CL350 DIP) WITH TRENCHING & BACKFILL PER QUAD CITY STD DTL 200Q-1 & BLUE TRACER WIRE PER QUAD CITY STD DTL 319Q-1. REFER TO QUAD CITY DETAILS SHEET C1-2.
29. PROVIDE TRASH DUMPSTER ENCLOSURE, REFER TO DETAIL B1/C1.1 THIS SHEET.
30. ACCESSIBLE ROUTE.
31. EXISTING 1" COPPER WATER LINE
32. PROVIDE 4" BACKWATER VALVE AND 2-WAY CLEANOUT, REFER TO DETAIL 440PV-2/C1.2.
33. REFER TO REFERENCE FLOOR PLAN FOR 6" FIRE LINE CONTINUATION INTO BUILDING. INCLUDE A TESTABLE DOUBLE CHECK ASSEMBLY & PRESSURE RELIEF VALVE IN FIRE RISER ROOM. FIRE LINE MUST BE PRESSURE TESTED TO FLOOR FLANGE MODEL COLT 200 AS MANUFACTURED BY AMES. MOUNTED VERTICAL
34. LOCATION OF PROPOSED FIRE RISER ROOM.
35. POINT OF CONNECTION FOR 6" TAPPING SLEEVE FOR PROPOSED FIRE LINE TO FIRE RISER, REFER TO QUAD CITY DETAILS 340Q-1 & 340Q-2 ON SHEET C1.2.
36. EXISTING REDUCED PRESSURE BACKFLOW PREVENTION DEVICE.
37. PROVIDE FIRE HYDRANT, REFER TO DETAILS 360Q AND 362Q ON SHEET C1.2.
38. PROVIDE REMOTE FDC.
39. PROVIDE 4" DUCTILE IRON FDC WATER LINE.
40. PROVIDE 6" DUCTILE IRON FIRE LINE.
41. PROPOSED 12" WATER LINE EASEMENT.
42. POINT OF CONNECTION FOR 6" TAPPING SLEEVE FOR PROPOSED FIRE LINE TO FIRE HYDRANT. REFER TO QUAD CITY DETAILS 340Q-1 & 340Q-2 ON SHEET C1.2.
43. PROPOSED 6" FIRE RISER.
44. PROPOSED STUB OUT LOCATION FOR 4" FDC LINE TO BE ATTACHED TO FIRE RISER ABOVE SLAB.
45. 6" FLANGE x MJ VALVE, REFER TO DETAIL 340Q1 ON SHEET C1.2.
46. 6" FLANGE x MJ VALVE, REFER TO DETAIL 360Q ON SHEET C1.2.

TOPV STANDARD DETAIL



B1 DUMPSTER ENCLOSURE DETAIL
SCALE: 1/4" = 1'-0"

REVISIONS		BY
1	Town of PV COMMENTS 7/25/19, 7/30/19, 8/5/19	LO
2	Town of PV COMMENTS 9/30/19	LO
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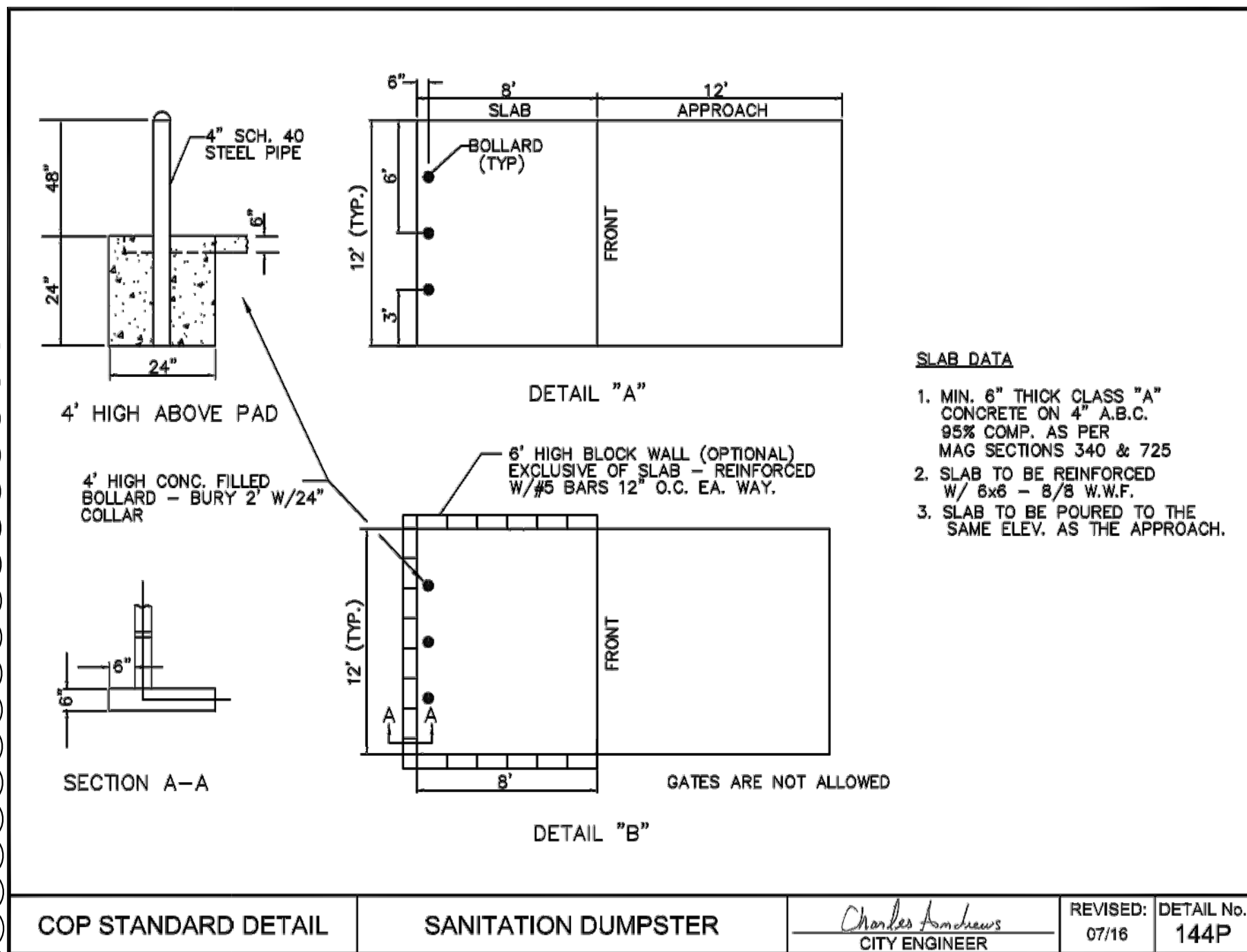
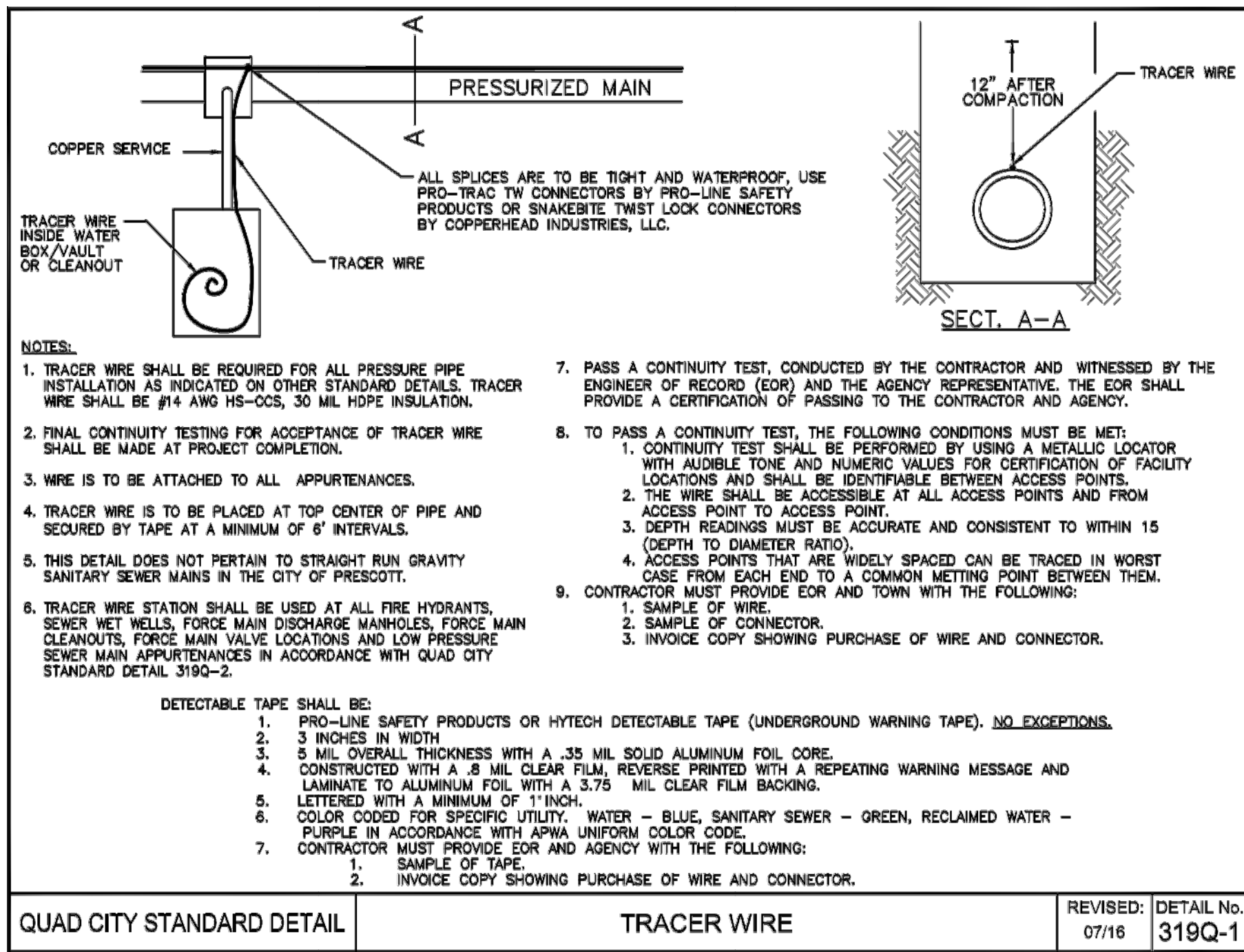
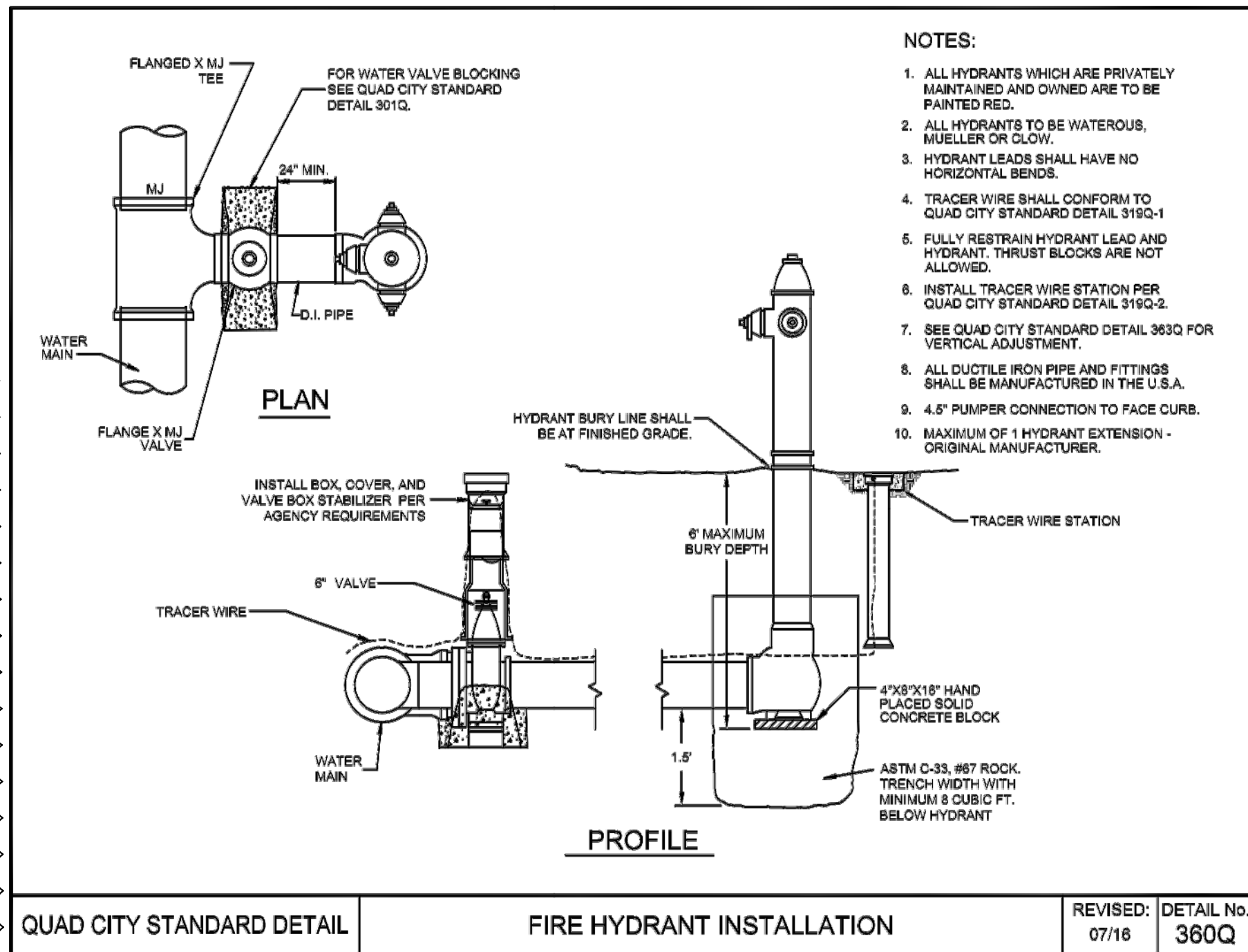
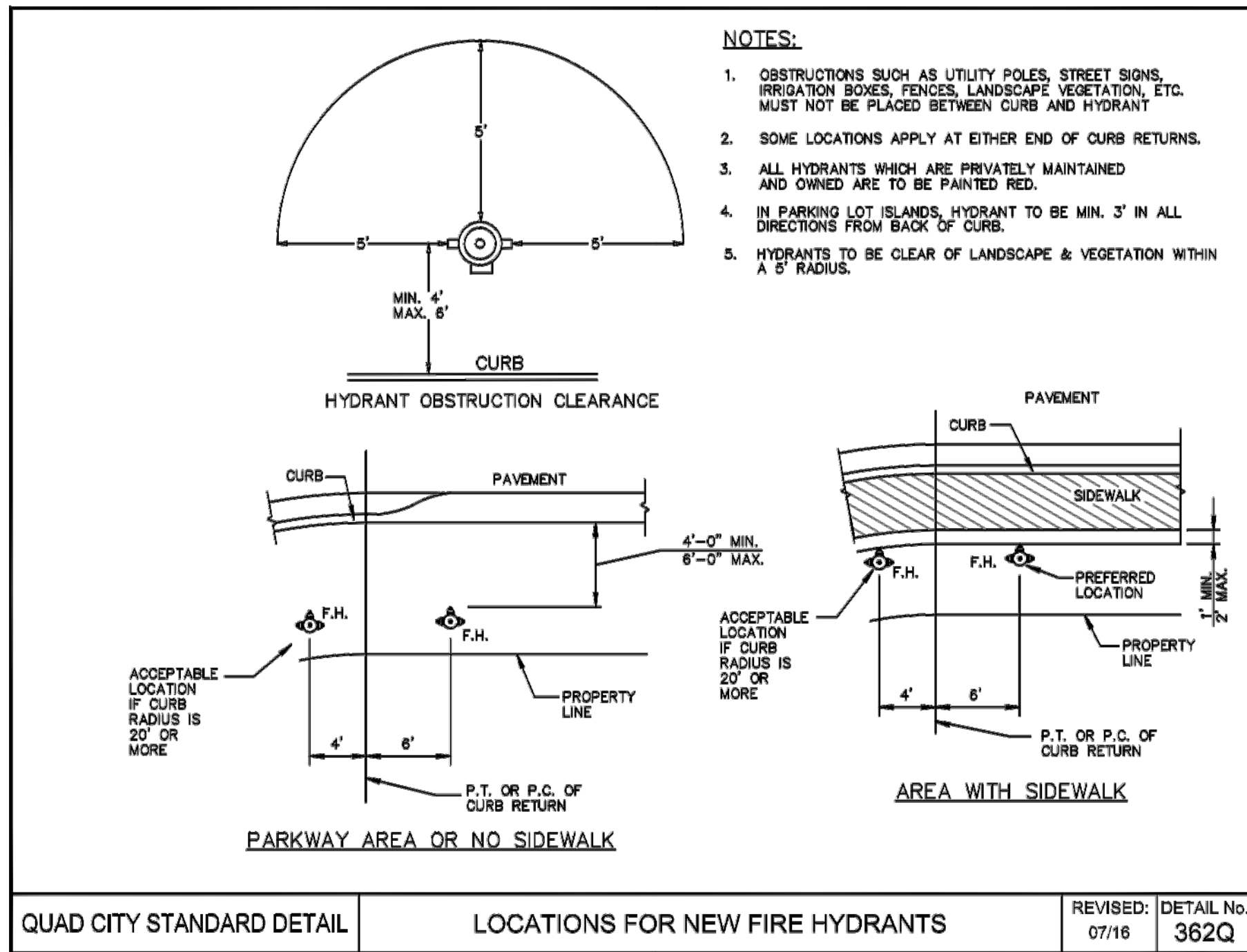
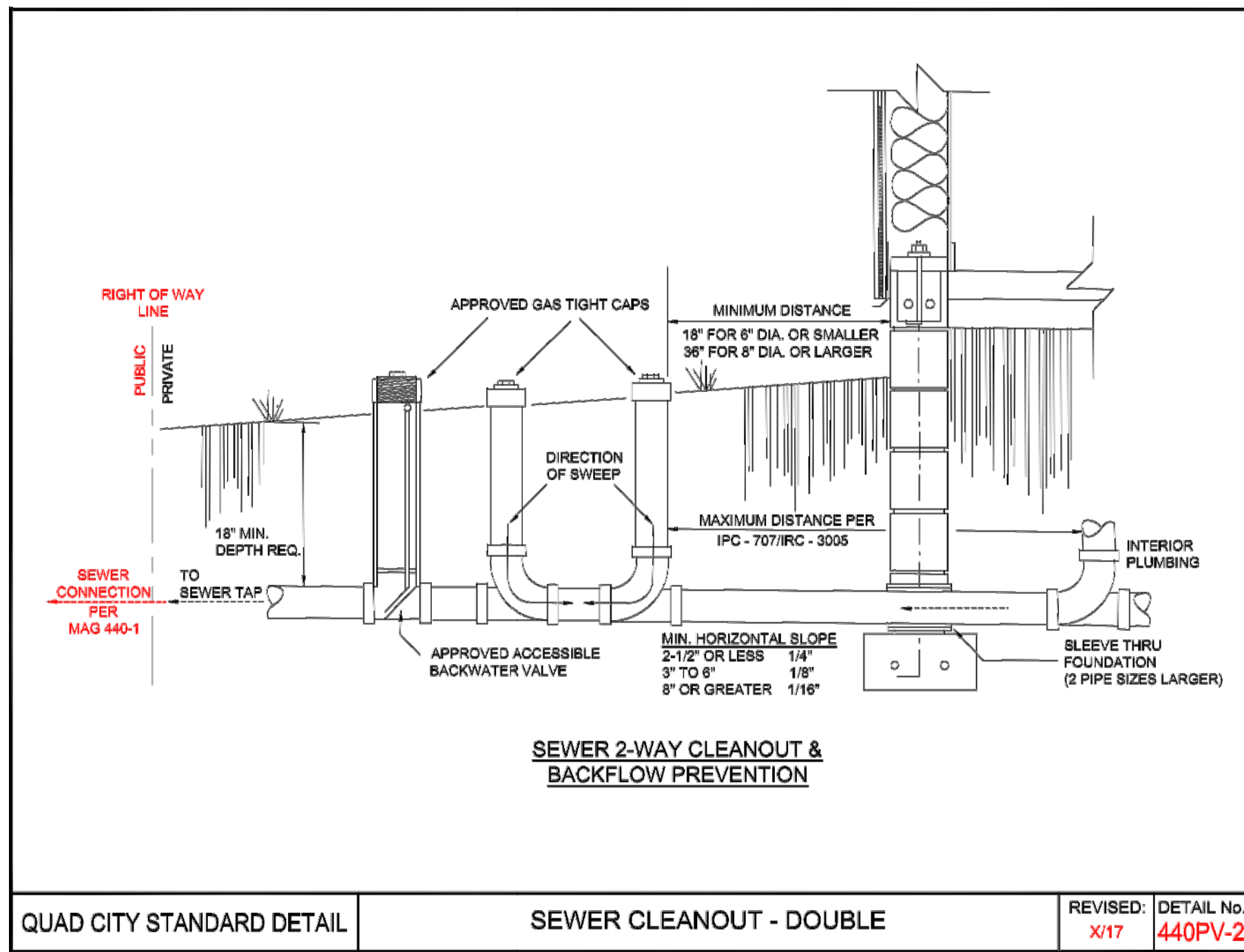
DRAWING: Architectural / Utilities Site Plan

PROJECT: Yavapai Mechanical Building Addition
5914 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY L.O.
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SHEET

C1.1



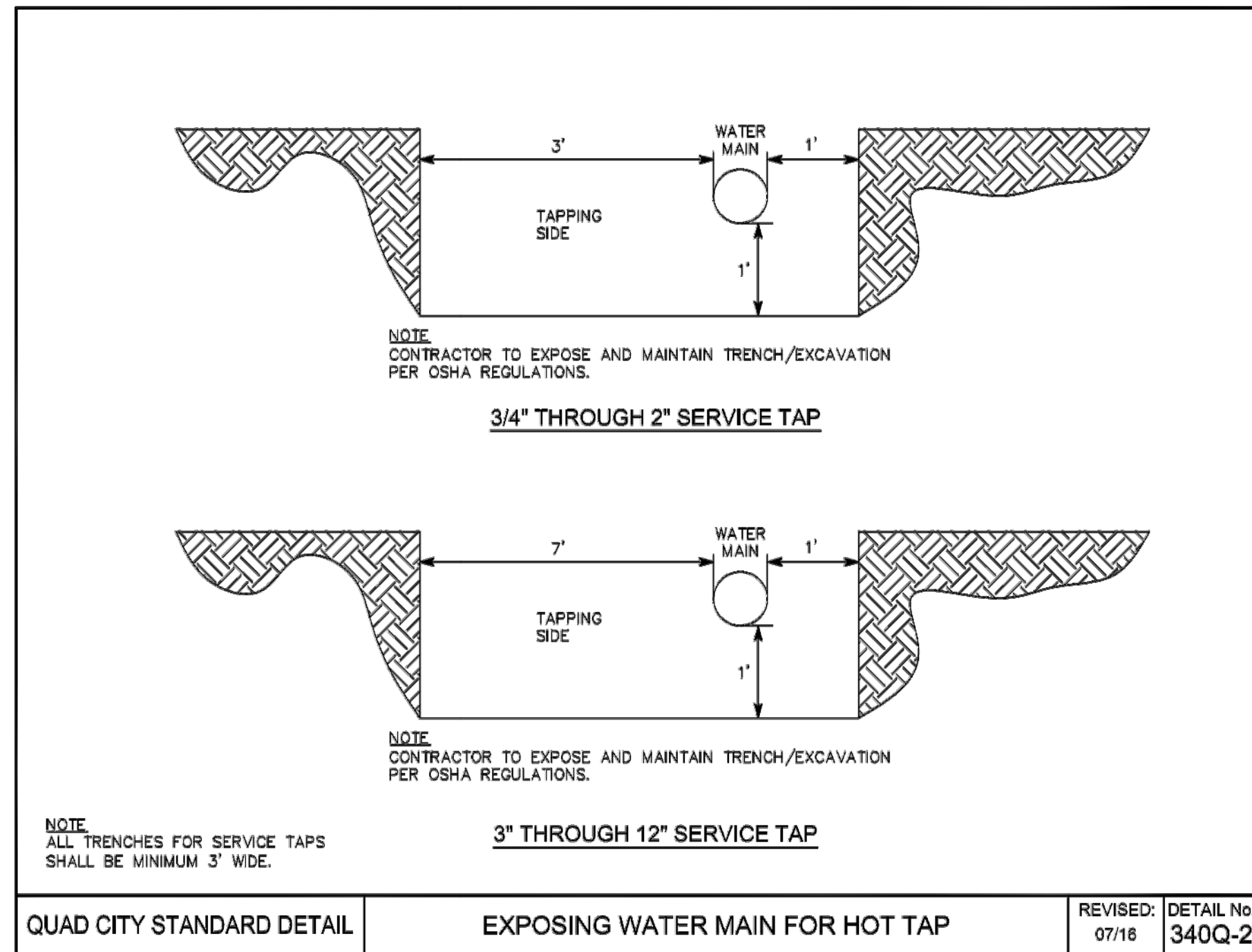
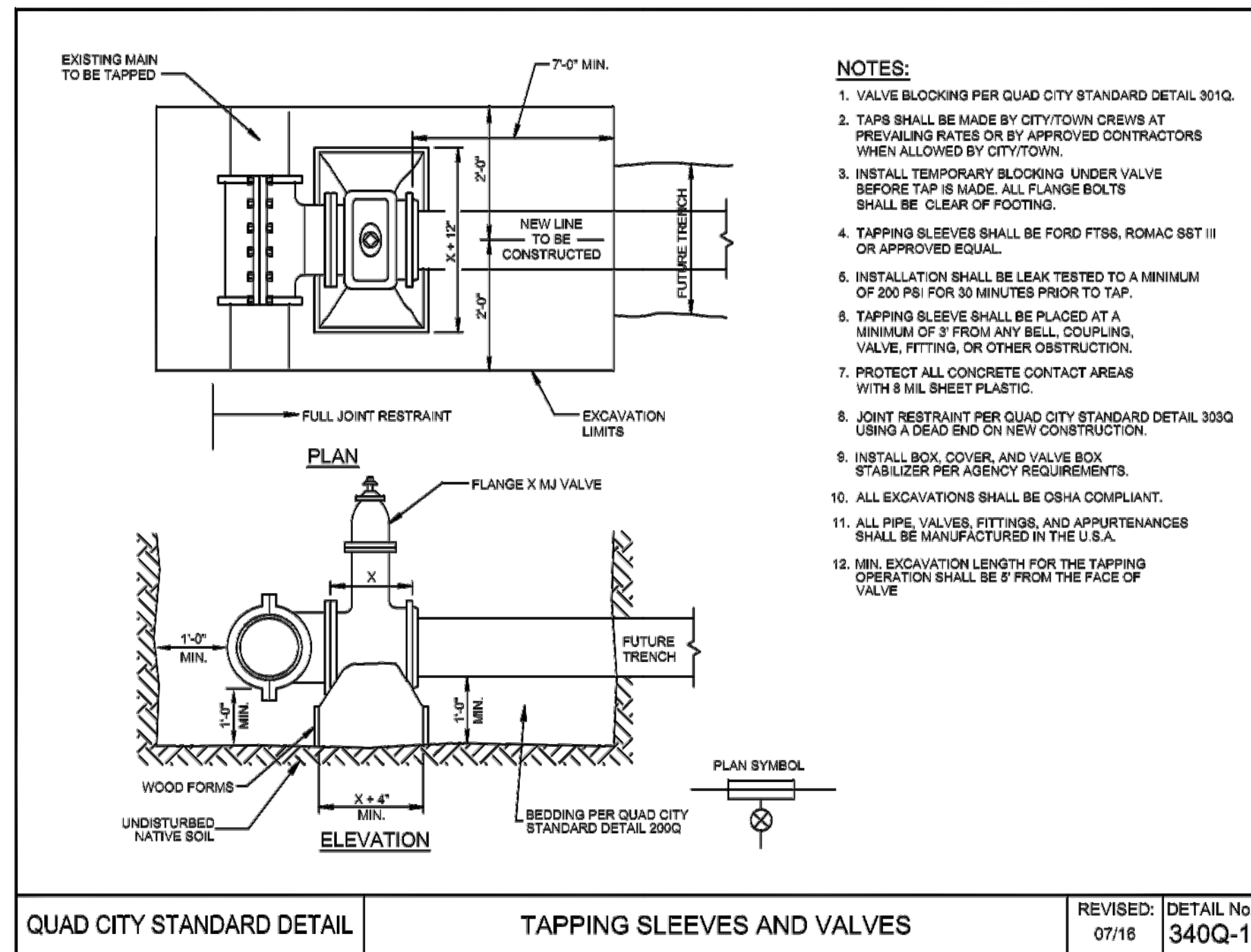
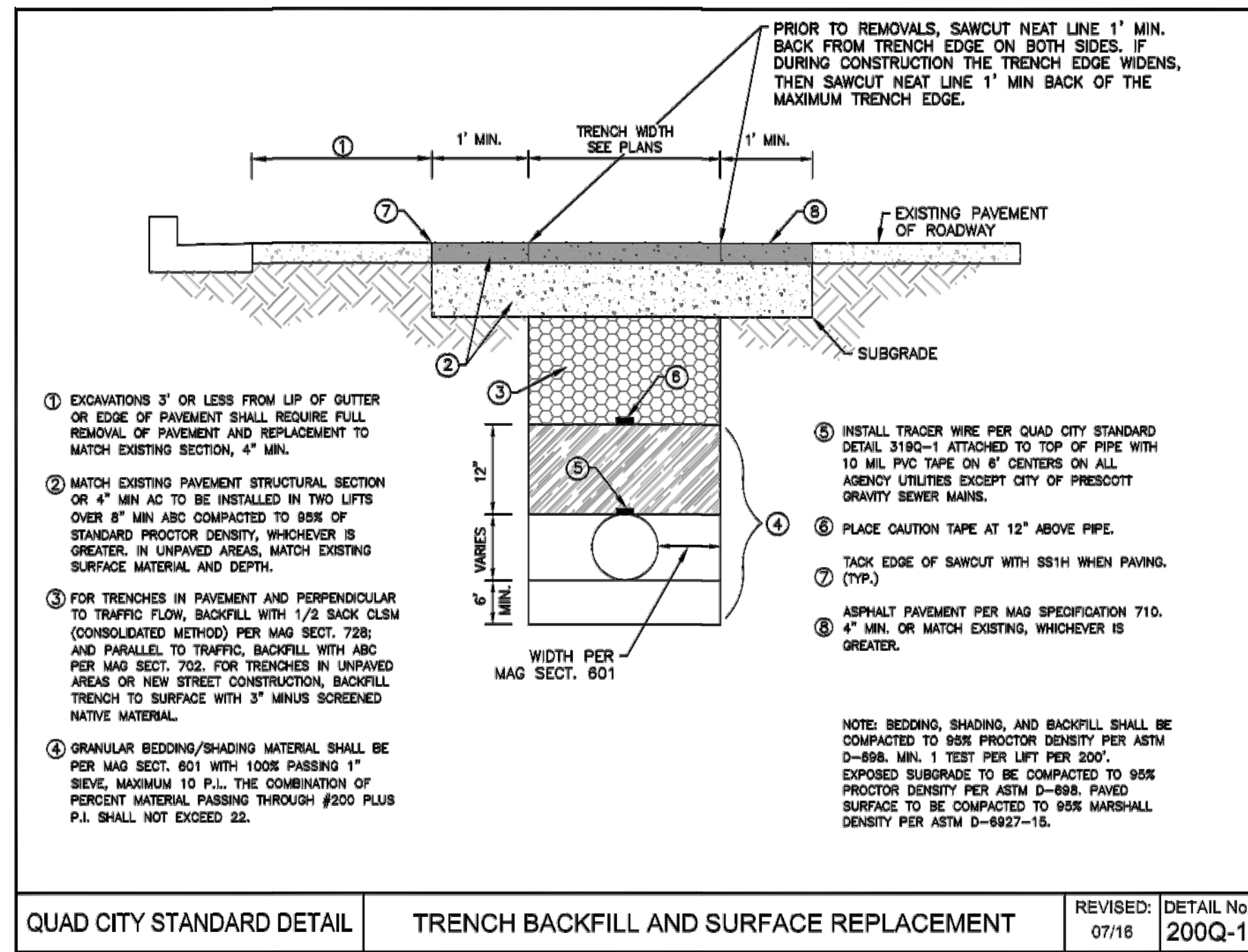
RESTRAINED LENGTHS, LR, FOR DUCTILE IRON PIPE														
NOMINAL PIPE SIZE INCHES	HORIZONTAL BENDS			TEES		VERTICAL OFFSETS								VALVES & DEAD ENDS
						90° BEND FITTINGS		45° BEND FITTINGS		22-1/2° BEND FITTINGS				
	DOWN BEND	UP BEND	DOWN BEND	UP BEND	DOWN BEND	UP BEND	DOWN BEND	UP BEND						
4	18	7	4	30	8	31	18	13	7	6	3	31		
6	25	10	5	43	20	44	25	18	10	9	5	44		
8	32	13	6	56	34	58	32	24	13	11	6	58		
10	38	16	8	68	45	69	38	29	16	14	8	69		
12	45	19	9	80	57	81	45	34	19	16	9	81		
14	51	21	10	91	68	92	51	38	21	18	10	92		
16	57	24	11	103	79	104	57	43	24	21	11	104		
18	62	26	12	113	90	115	62	48	26	23	12	115		
20	68	28	14	125	100	126	68	52	28	25	14	126		
24	79	33	16	145	121	147	79	61	33	29	16	147		

RESTRAINED LENGTHS, LR, FOR DUCTILE IRON PIPE WITH POLYETHYLENE WRAP OR PVC														
NOMINAL PIPE SIZE INCHES	HORIZONTAL BENDS			TEES		VERTICAL OFFSETS								VALVES & DEAD ENDS
						90° BEND FITTINGS		45° BEND FITTINGS		22-1/2° BEND FITTINGS				
	DOWN BEND	UP BEND	DOWN BEND	UP BEND	DOWN BEND	UP BEND	DOWN BEND	UP BEND						
4	26	11	5	69	18	72	26	30	11	14	5	72		
6	36	15	7	99	47	102	36	42	15	20	7	102		
8	47	19	9	130	78	133	47	55	19	26	9	133		
10	56	23	11	157	103	159	56	66	23	32	11	159		
12	65	27	13	185	131	187	65	77	27	37	13	187		
14	74	31	15	211	156	214	74	89	31	42	15	214		
16	82	34	16	238	183	241	82	100	34	48	16	241		
18	90	37	18	263	207	266	90	110	38	53	18	266		
20	98	41	20	289	233	292	98	121	41	58	20	292		
24	113	47	22	337	280	340	113	141	47	68	22	340		

NOTES:

- ALL JOINTS WITHIN THE SPECIFIED LENGTH LR MUST BE RESTRAINED.
ALL LENGTHS ARE GIVEN IN FEET.
- THE MAXIMUM TEST PRESSURE SHALL NOT EXCEED 200 PSI
- THE MINIMUM DEPTH OF BURY SHALL BE 4' TO TOP OF PIPE.

QUAD CITY STANDARD DETAIL	JOINT RESTRAINT FOR DUCTILE IRON AND POLYETHYLENE WRAPPED DUCTILE IRON WATER PIPES	REVISED: 07/16	DETAIL No. 303Q-2
---------------------------	---	-------------------	----------------------



REVISIONS

BY

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Town of PV COMMENTS
7/25/19, 7/30/19, 8/5/19

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W. Alan Kenson & Associates, P.C.

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P.C.
SINCE 07/19/19
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EXPIRES: 6/30/21

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email: waka@cablone.net
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ARCHITECTURE & PLANNING

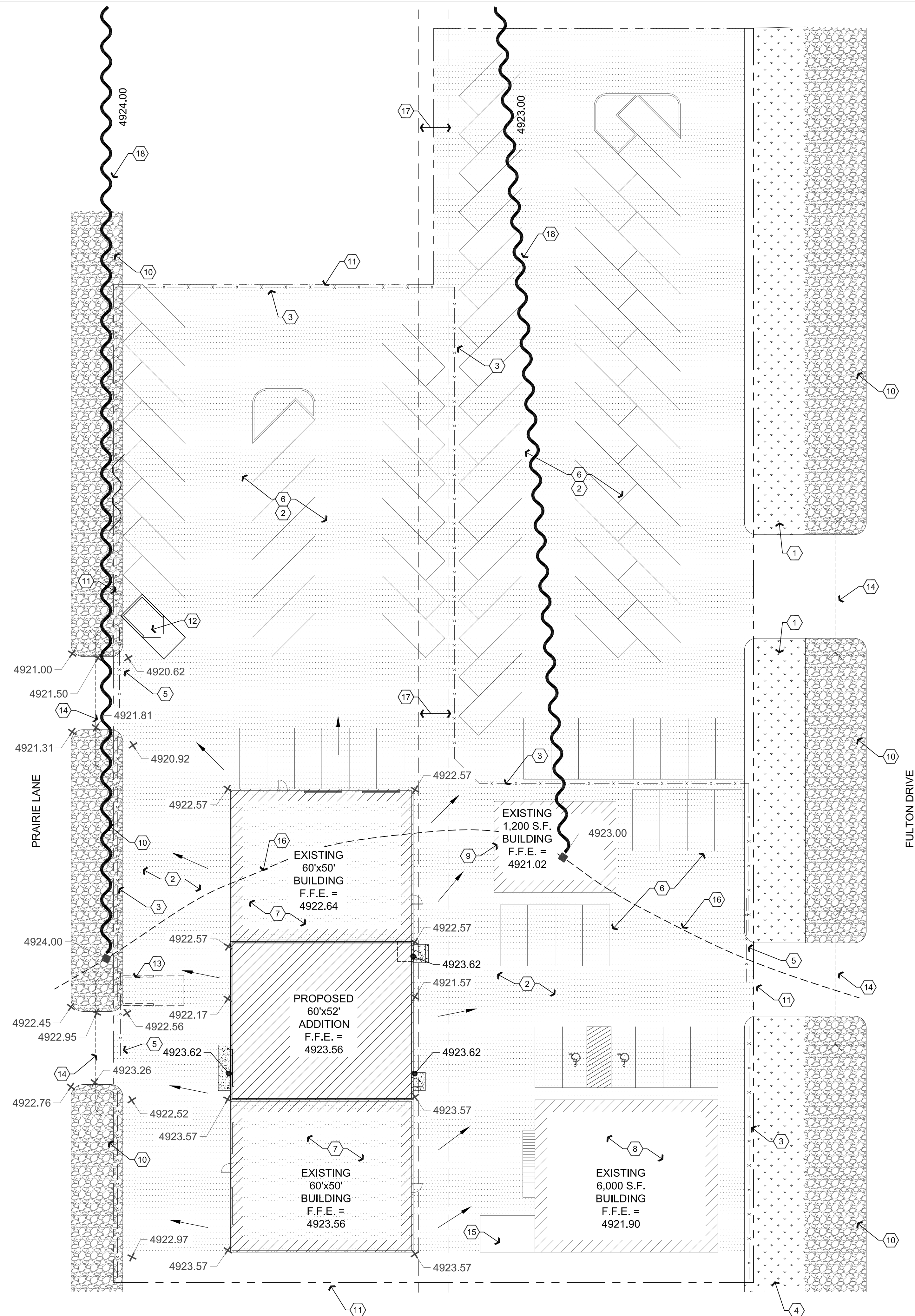
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6914 N. Fulton Dr.
Prescott Valley, AZ 86314
103-33-297C

APN:

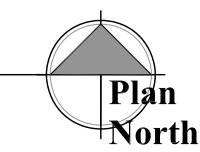
DRAWN BY
L.O.
CHECKED BY
W.A.K.
DATE
August 1st, 2019
JOB NO.
733
SHEET

C1.2



A1 Grading and Drainage Plan

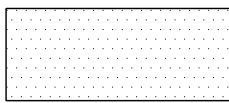
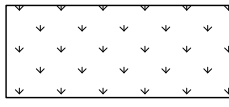
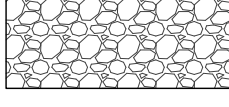



Scale: 1"=20'-0"



Descriptive Keynotes

1. EXISTING LANDSCAPING.
2. EXISTING ASPHALTIC PAVEMENT.
3. EXISTING CHAIN LINK FENCE.
4. EXISTING ELECTRIC POWER POLE.
5. EXISTING SLIDING GATE.
6. EXISTING PARKING LOT.
7. EXISTING 3,000 S.F 1-STORY BUILDING WITH MEZZANINE.
8. EXISTING 6,000 S.F 2-STORY OFFICE BUILDING.
9. EXISTING 1,200 S.F. 1-STORY BUILDING.
10. EXISTING RIP RAP W/ DRAINAGE CHANNEL
11. PROPERTY LINE.
12. PROPOSED LOCATION FOR TRASH DUMPSTER.
13. EXISTING TRASH DUMPSTER TO BE REMOVED.
14. EXISTING CULVERT.
15. EXISTING MECHANICAL ROOM.
16. FLOOD PLAIN BOUNDARY.
17. EXISTING UTILITIES EASEMENT.
18. EXISTING FLOODWAY ELEVATION LINE.

Legend

- | | |
|---|---|
|  | TYPICALLY INDICATES EXISTING ASPHALTIC PAVEMENT |
|  | TYPICALLY INDICATES EXISTING LANDSCAPED AREA |
|  | TYPICALLY INDICATES EXISTING RIP RAP |
|  4924.00 | TYPICALLY INDICATES EXISTING SPOT ELEVATION |
|  4924.00 | TYPICALLY INDICATES PROPOSED SPOT ELEVATION |
|  4923.00 | TYPICALLY INDICATES EXISTING FLOODWAY ELEVATION |

NOTE:

- CUT WILL BE ±33 CUBIC YARDS
- FILL WILL BE ±66 CUBIC YARDS

REVISIONS	BY
Town of PV COMMENTS 7/25/19, 7/30/19, 8/5/19	LO

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ARCHITECTURE & PLANNING
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DRAWING: Grading and Drainage Plan

PROJECT:

APN:

1
Yavapai Mechanical Building Addition
5914 N. Fulton Dr.
Prescott Valley, AZ 86314
103-33-297C

103-33-297C

DRAWN BY
L.O.

CHECKED BY
W.A.K.

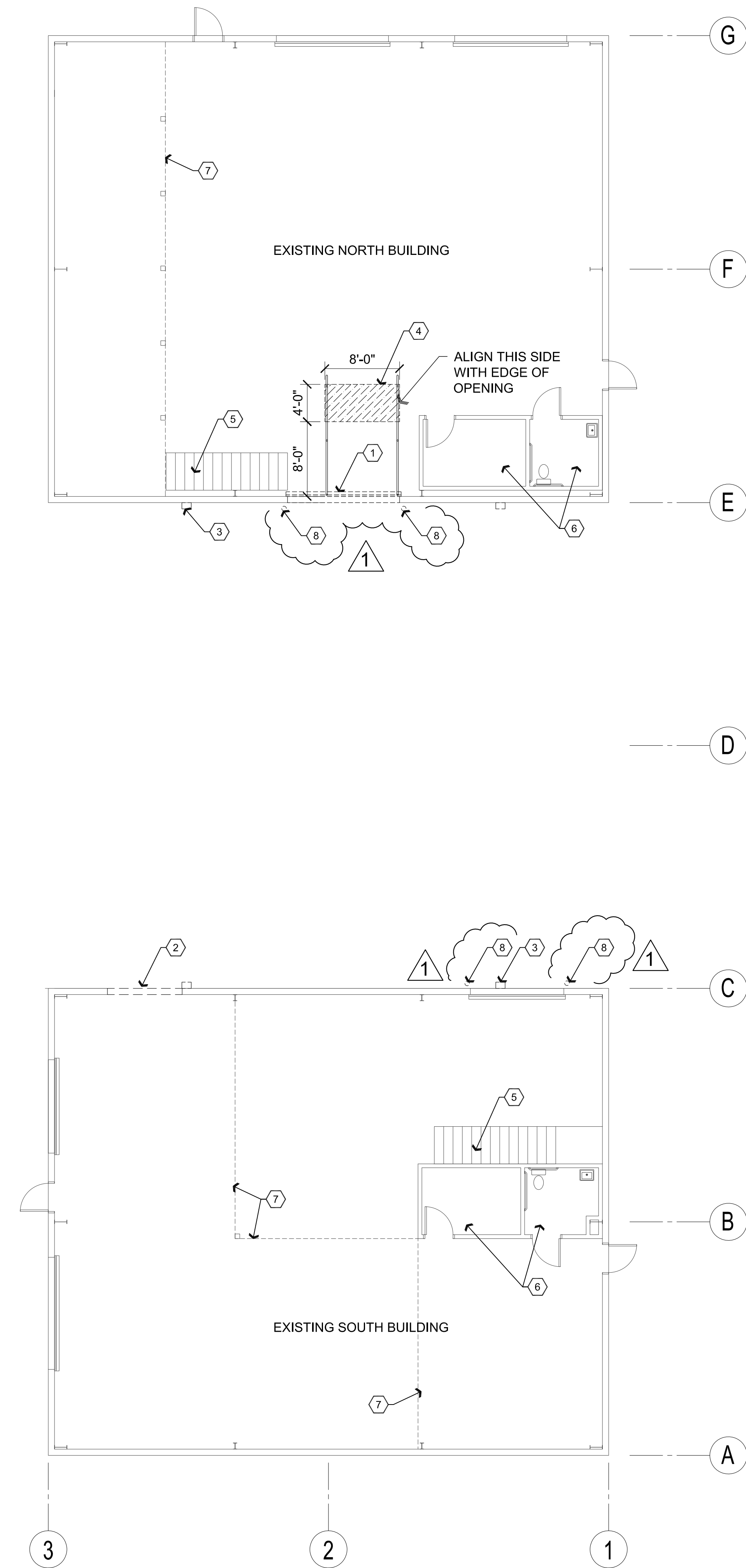
DATE
August 1st, 2019

JOB NO.
733

SHEET

C1.3

Aug 20, 2019 - 3:45pm



Descriptive Keynotes

1. REMOVE AND RELOCATE EXISTING DOOR, REFER TO REFERENCE FLOOR PLAN.
2. REMOVE PORTION OF STEEL BUILDING WALL TO CREATE OPENING BETWEEN THE EXISTING BUILDING AND THE PROPOSED ADDITION.
3. REMOVE AND RELOCATE EXISTING LIGHT, REFER TO ELECTRICAL PLANS.
4. REMOVE PORTION OF EXISTING CONCRETE SLAB FOR INSTALLATION OF NEW RAMP, REFER TO DETAIL A1/A5.1.
5. EXISTING STAIRS.
6. EXISTING INTERIOR ROOMS.
7. EXISTING LOCATION OF UPPER LEVEL.
8. REMOVE EXISTING BOLLARDS AND OTHER PROTECTIVE DEVICES BETWEEN THE BUILDINGS, TYPICAL.

REVISIONS	BY
1 Town of PV COMMENTS 7/25/19, 7/30/19, 8/5/19	LO

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ARCHITECT
ARIZONA
EXPIRES: 6/30/21

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ARCHITECTURE & PLANNING

DRAWING: Demolition Floor Plans

PROJECT: Yavapai Mechanical Building Addition
5914 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

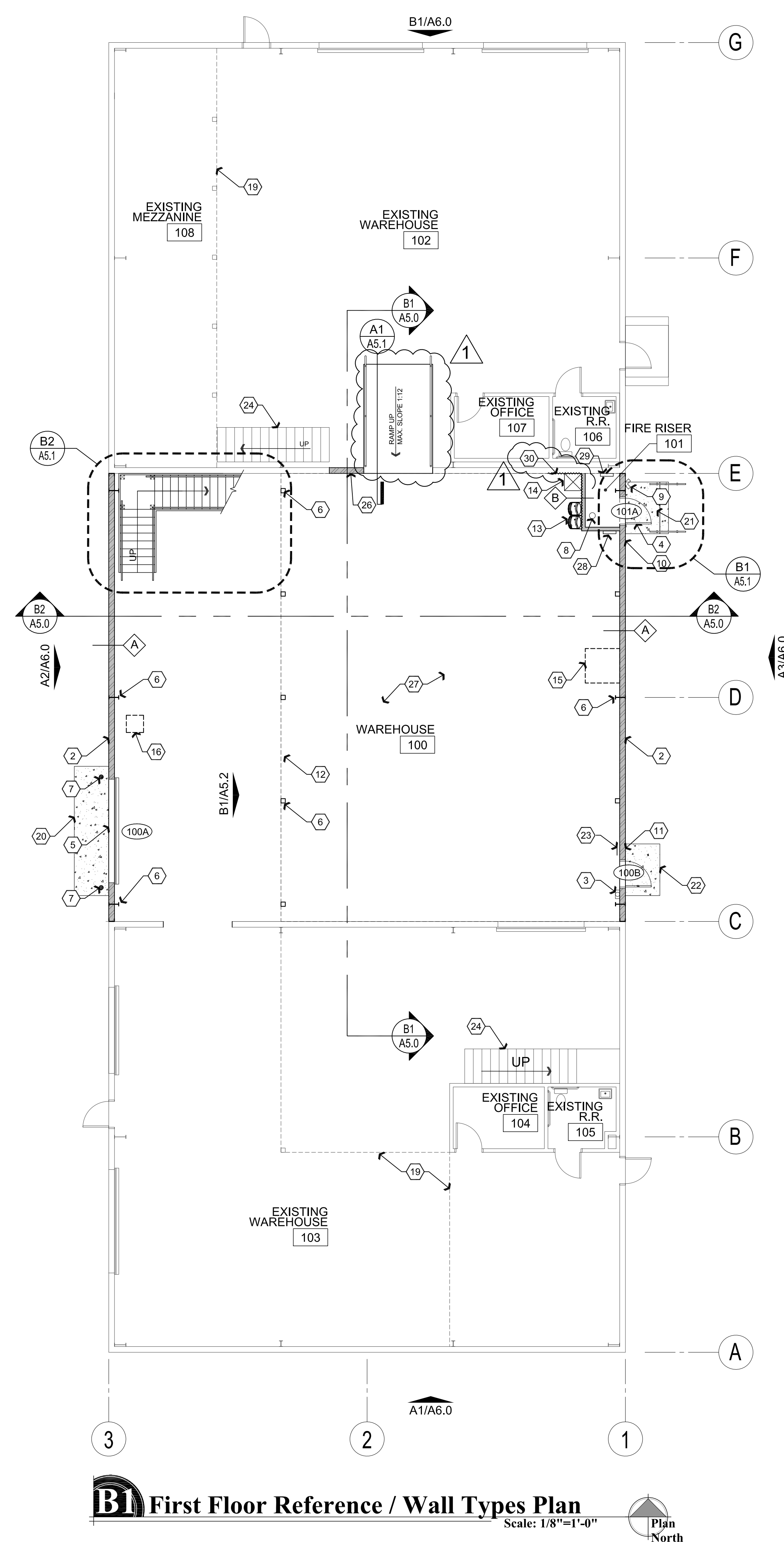
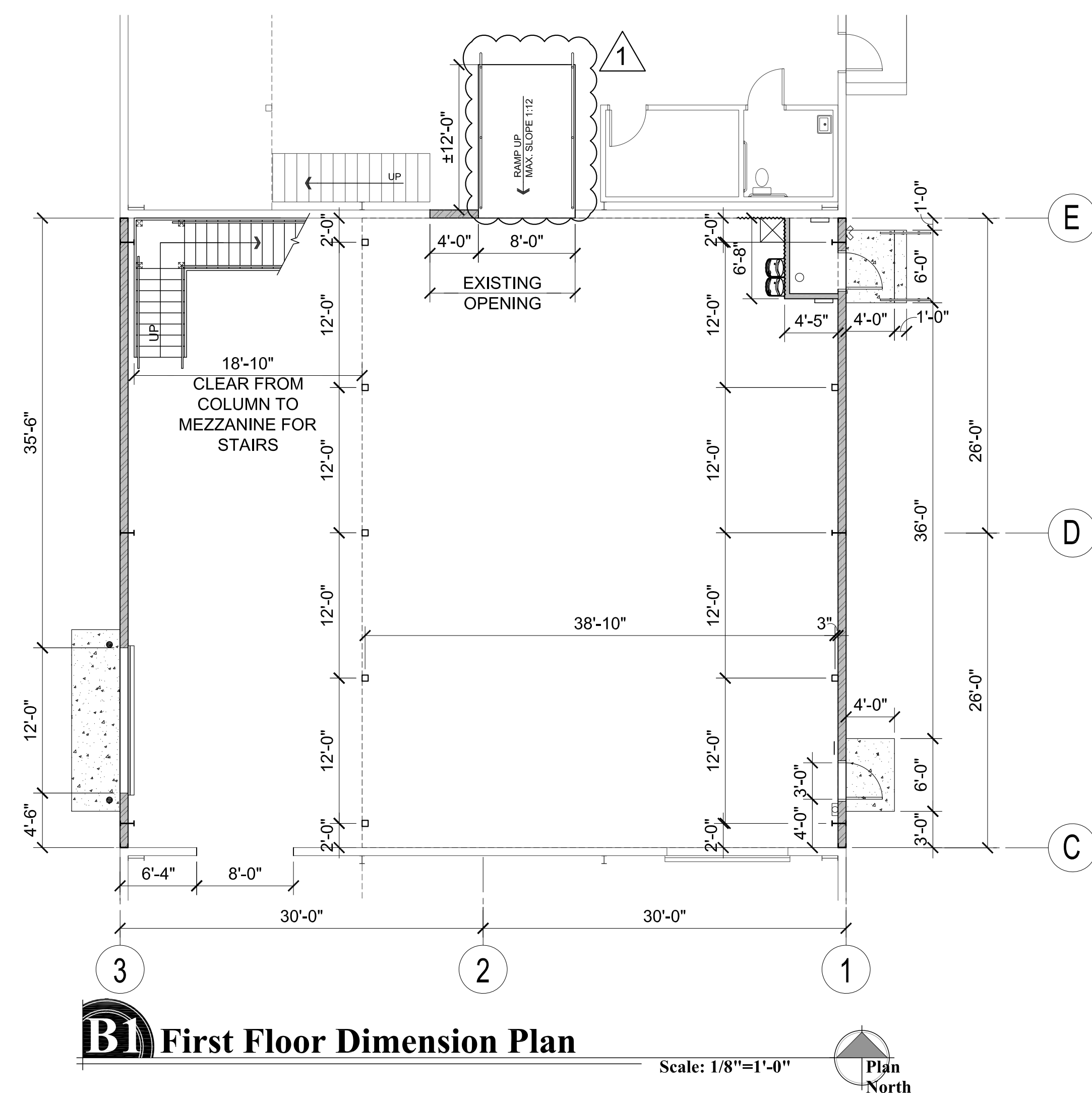
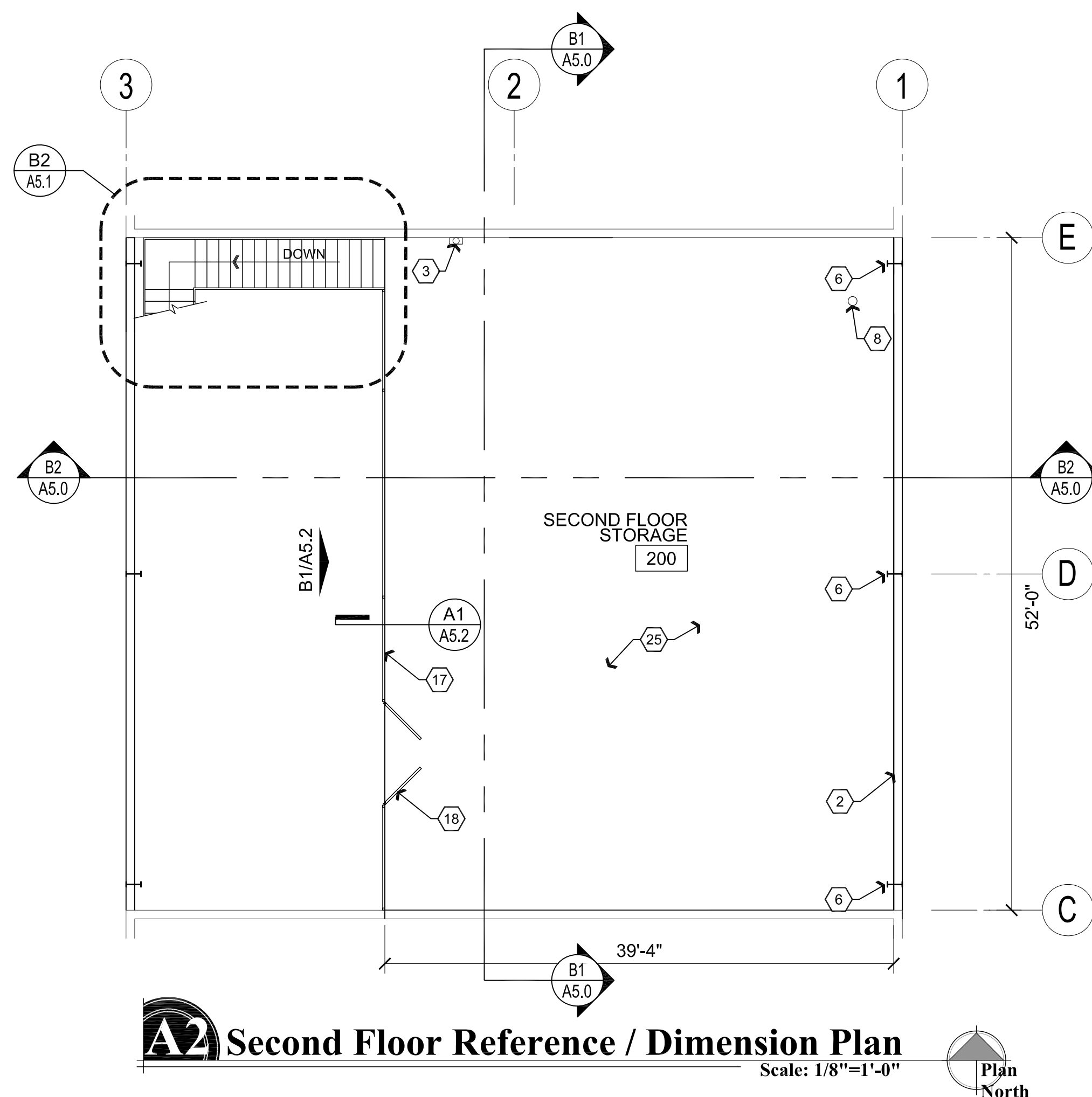
DRAWN BY
L.O.
CHECKED BY
W.A.K.
DATE
August 1st, 2019
JOB NO.
733
SHEET

A1.0

A1 Existing / Demolition Floor Plans

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







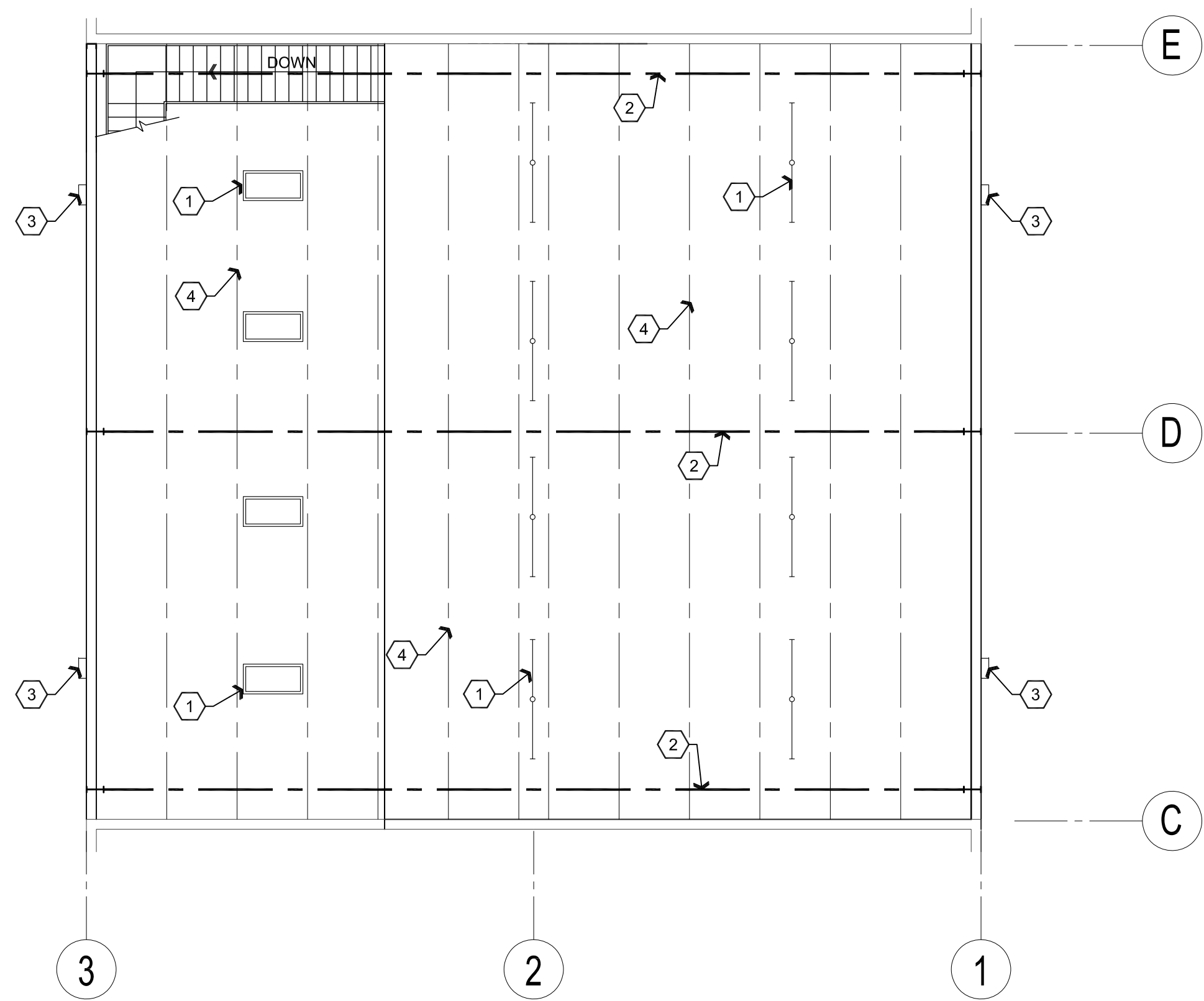
Descriptive Keynotes

1. PROVIDE INTERIOR WALL, REFER TO WALL TYPES LEGEND FOR TYPE OF CONSTRUCTION.
2. PROVIDE EXTERIOR WALL, REFER TO WALL TYPES LEGEND FOR TYPE OF CONSTRUCTION.
3. PROVIDE TYPE 2A10BC FIRE EXTINGUISHER, SURFACE MOUNTED.
4. PROVIDE DOOR, REFER TO DOOR SCHEDULE, TYPICAL.
5. RELOCATED SECTIONAL ROLL UP DOOR, REFER TO DOOR SCHEDULE.
6. PROVIDE STEEL COLUMN, REFER TO STRUCTURAL PLANS, TYPICAL.
7. PROVIDE 6'-0" LONG 4" DIAMETER, CONCRETE FILLED, PROTECTIVE STEEL BOLLARDS, EMBEDDED 2'-0" BELOW GRADE INTO CONCRETE FOOTING, TYPICAL AT EACH NEW OVERHEAD DOOR.
8. PROVIDE AUTOMATIC FIRE SPRINKLER SYSTEM RISER, REFER TO FIRE SPRINKLER PLANS / SITE UTILITY PLAN.
9. PROVIDE FIRE DEPARTMENT CONNECTION WITH LOCKING CAPS. REFER TO FIRE SPRINKLER PLANS.
10. PROVIDE FIRE ALARM GONG. REFER TO FIRE SPRINKLER PLANS.
11. PROVIDE FIRE DEPARTMENT LOCK BOX MOUNTED 6'-0" A.F.F.
12. EDGE OF PROPOSED SECOND FLOOR ABOVE.
13. PROVIDE ELECTRIC DRINKING FOUNTAIN, REFER TO PLUMBING PLANS.
14. PROVIDE MOP SINK, REFER TO PLUMBING PLANS.
15. PROVIDE SIDEWALL EVAPORATIVE COOLER @ 12'-0" A.F.F., REFER TO MECHANICAL PLANS.
16. PROVIDE UNIT HEATER @ 12'-0" A.F.F., REFER TO MECHANICAL PLANS.
17. PROVIDE 2"x1" STEEL TUBE GUARDRAIL PLACED AT 3'-6" ABOVE UPPER LEVEL FLOOR WITH INTERMEDIATE 1"x1" STEEL TUBE RAILS NOT TO EXCEED 12" O.C. PROVIDE 2"x2" STEEL POSTS SPACED AT 8'-0" O.C.
18. PROVIDE PAIR OF 4'-0" WIDE SWINGING STEEL GATES CONSTRUCTED SIMILAR TO GUARDRAIL CONSTRUCTION, REFER TO DESCRIPTIVE KEYNOTE #17.
19. EXISTING MEZZANINE.
20. PROVIDE 5" THICK CONCRETE APRON W/ #4s @ 3'-0" O.C. EACH WAY OVER 4" COMPACTED A.B.C. PROVIDE 8" TURNDOWN AT PERIMETER.
21. PROVIDE CONCRETE STAIRS.
22. PROVIDE CONCRETE LANDING.
23. 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.
24. EXISTING STAIRS.
25. PROVIDE 3/4" OSB SHEATHING, REFER TO STRUCTURAL PLANS.
26. INFILL EXISTING OPENING TO MATCH EXISTING CONSTRUCTION.
27. PROVIDE 5" THICK CONCRETE SLAB W/ #4s @ 3'-0" O.C. EACH WAY OVER 4" COMPACTED A.B.C., REFER TO STRUCTURAL PLANS.
28. PROVIDE ELECTRICAL PANEL, REFER TO ELECTRICAL PLANS.
29. FIRE ALARM PANEL, REFER TO FIRE ALARM PLANS.
30. PROVIDE 48" HIGH FRP MINIMUM 24" BEYOND MOP SINK.

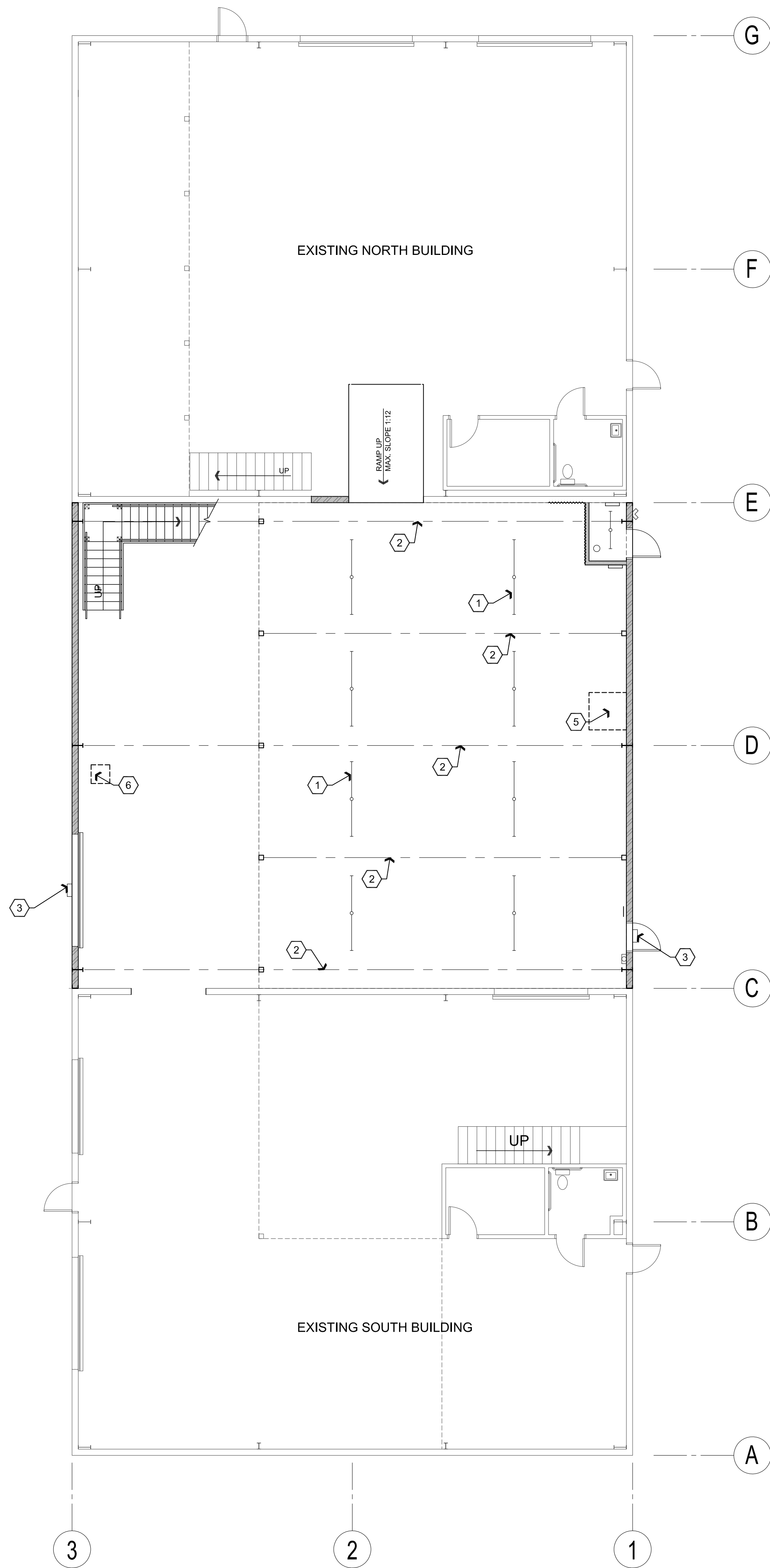
Wall Types Legend

-   EXTERIOR METAL BUILDING WALL: PROVIDE EXTERIOR METAL BUILDING SIDING, 26 GAUGE, 'PBR' PANELS OVER 8" HORIZONTAL GIRTS BETWEEN STEEL COLUMNS. PROVIDE R-11 VINYL BACKED, METAL BUILDING INSULATION AT INTERIOR.

Aug 20, 2019 - 3:47pm



A1 Second Floor Reflected Ceiling Plan
Scale: 1/8"=1'-0"
Plan North



B1 First Floor Reflected Ceiling Plan
Scale: 1/8"=1'-0"
Plan North

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. EXTERIOR LIGHT FIXTURE. REFER TO ELECTRICAL PLANS.
4. ROOF PURLIN, REFER TO STRUCTURAL PLANS.
5. PROVIDE SIDEWALL EVAPORATIVE COOLER @ 12'-0" A.F.F., REFER TO MECHANICAL PLANS.
6. PROVIDE UNIT HEATER @ 12'-0" A.F.F., REFER TO MECHANICAL PLANS.

REVISIONS	BY
1 Town of PV COMMENTS 7/25/19, 7/30/19, 8/5/19	LO

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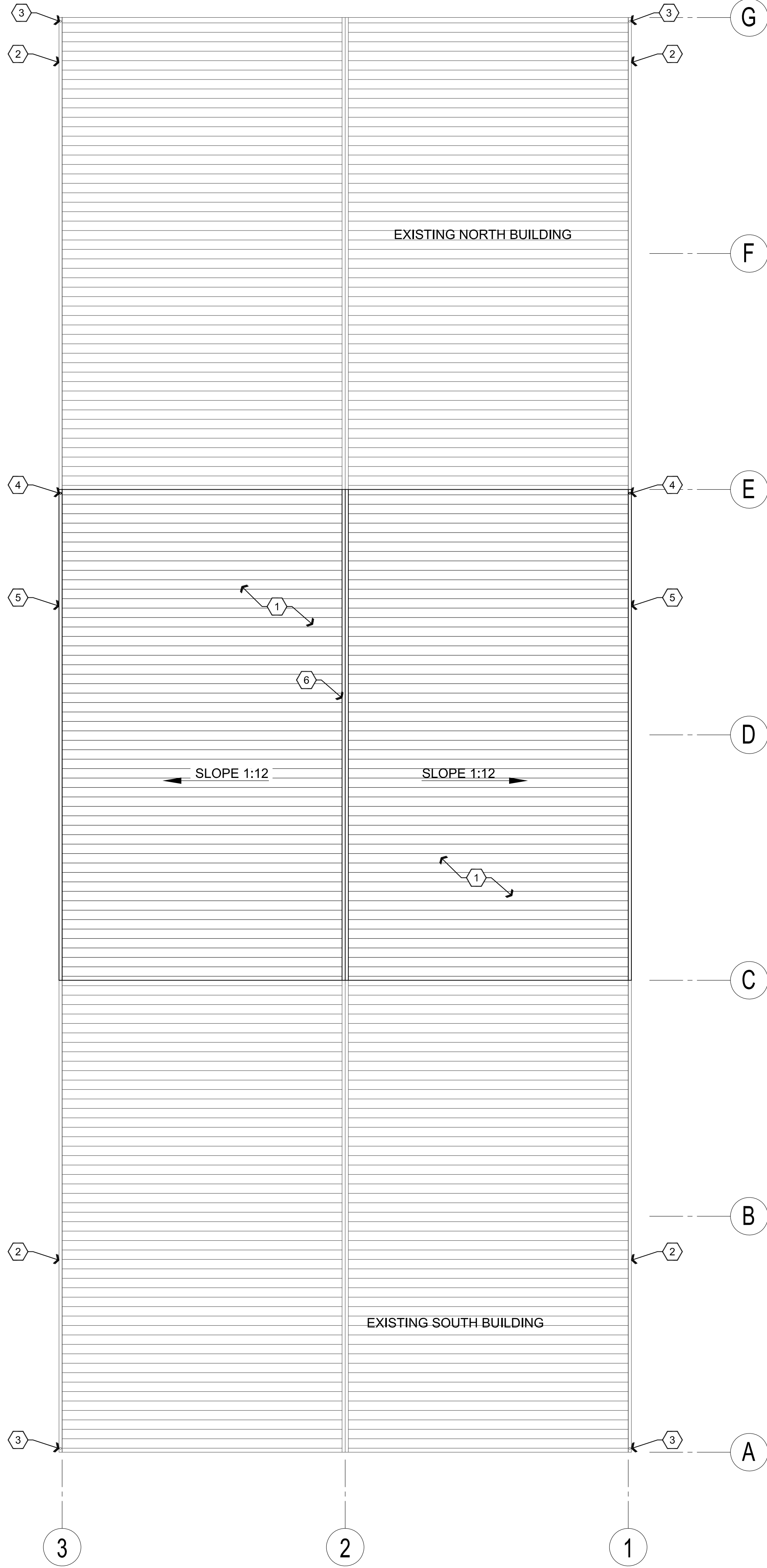
DRAWING: Reflected Ceiling Plan

PROJECT: Yavapai Mechanical Building Addition
5914 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE August 1st, 2019
JOB NO. 733
SHEET

A3.0



Descriptive Keynotes

1. PROVIDE 'PBR' PANEL METAL ROOF, REFER TO MATERIALS SCHEDULE. [M-1]
2. EXISTING SHEET METAL GUTTER.
3. EXISTING SHEET METAL DOWNSPOUT.
4. PROVIDE SHEET METAL DOWNSPOUT, REFER TO MATERIALS SCHEDULE. [M-4]
5. PROVIDE SHEET METAL GUTTER, REFER TO MATERIALS SCHEDULE. [M-3]
6. PROVIDE RIDGE CAP, REFER TO MATERIALS SCHEDULE. [M-2]

Roof Drain Leader Sizes:

ROOF AREA : 3,120 S.F.

3,120 S.F. x 3" RAINFALL P.H. =

- (1) 3"x4" LEADERS REQUIRED *
- (2) 3"x4" LEADERS PROVIDED

*PER 2012 IPC SECTION 1106 (TABLE 1106.2)



1

REVISIONS

BY

Town of PV COMMENTS
7/25/19, 7/30/19, 8/5/19

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ARCHITECTURE & PLANNING

DRAWING: Roof Plan

PROJECT: Yavapai Mechanical Building Addition
5914 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY
L.O.

CHECKED BY
W.A.K.

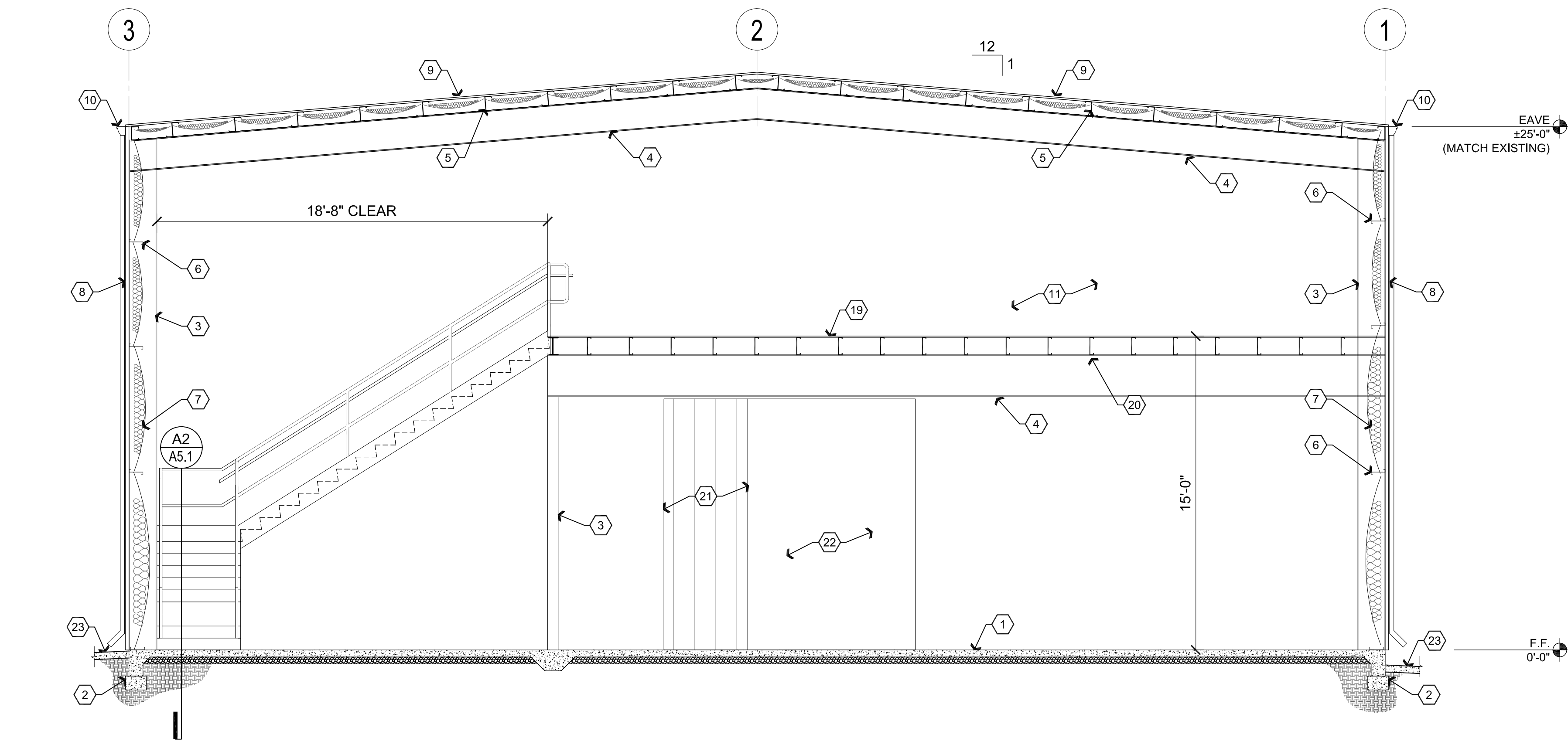
DATE
August 1st, 2019

JOB NO.
733

SHEET

A4.0

Aug 20, 2019 - 3:47pm

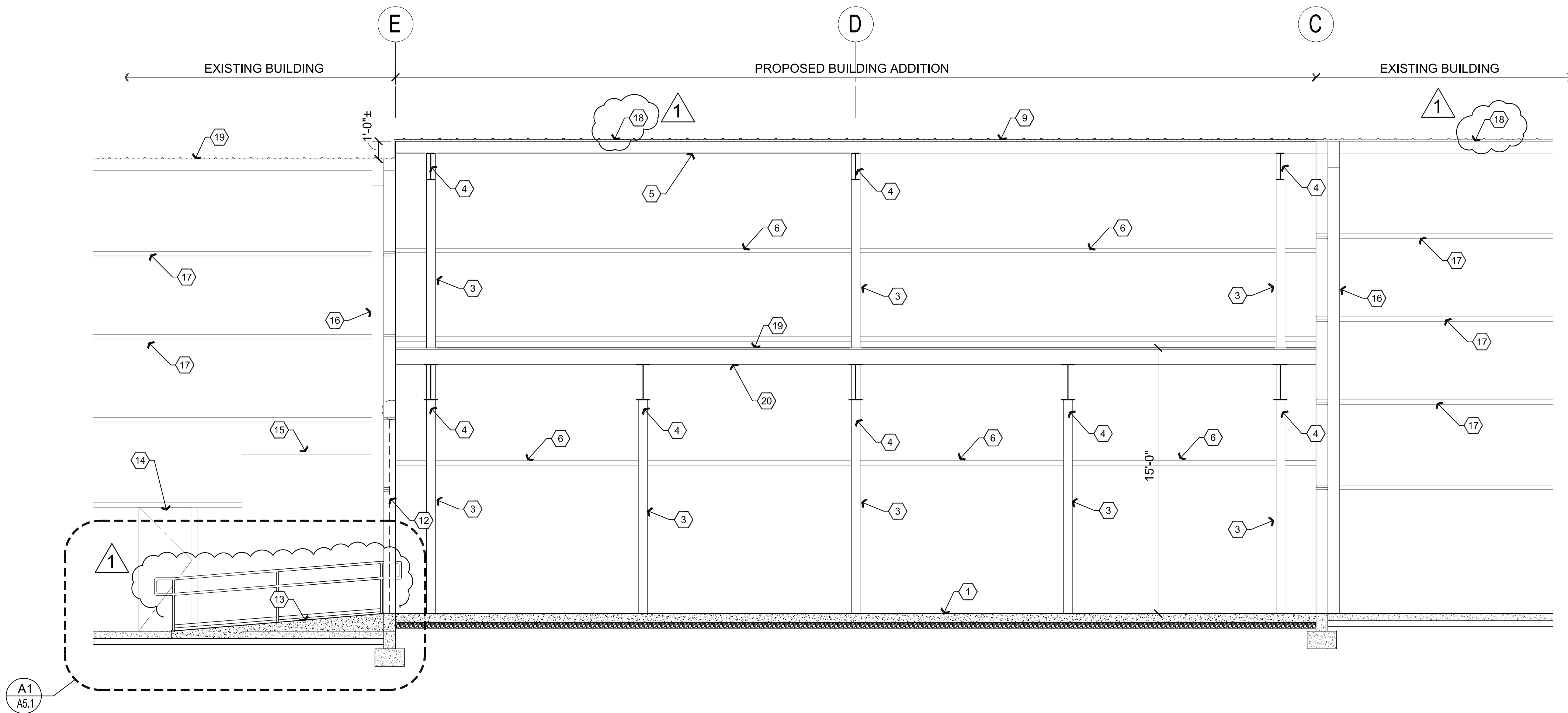


B2 Preliminary Building Section

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. PROVIDE R-11 VINYL FACED BLANKET INSULATION.
8. PROVIDE 'PBR' METAL SIDING, REFER TO MATERIALS SCHEDULE. ☐ M-5
9. PROVIDE 'PBR' ROOF PANELS, REFER TO MATERIALS SCHEDULE. ☐ M-1
10. PROVIDE SHEET METAL GUTTER AND DOWNSPOUT, REFER TO MATERIALS SCHEDULE. ☐ M-3 ☐ M-4
11. SECOND FLOOR STORAGE AREA.
12. REMOVE EXISTING ROLL-UP DOOR, TO BE RELOCATED, REFER TO REFERENCE FLOOR PLAN.
13. PROVIDE RAMP, REFER TO A1/A5.1.
14. EXISTING DOOR.
15. EXISTING OFFICE.
16. EXISTING COLUMN.
17. EXISTING STEEL GIRT.
18. EXISTING ROOF.
19. 3/4" OSB SHEATHING, REFER TO STRUCTURAL PLANS.
20. PROVIDE FLOOR JOIST, REFER TO STRUCTURAL PLANS.
21. INFILL PORTION OF OPENING TO MATCH EXISTING.
22. OPENING INTO EXISTING BUILDING WHERE ROLL-UP DOOR WAS REMOVED.
23. EXISTING ASPHALT PAVEMENT.

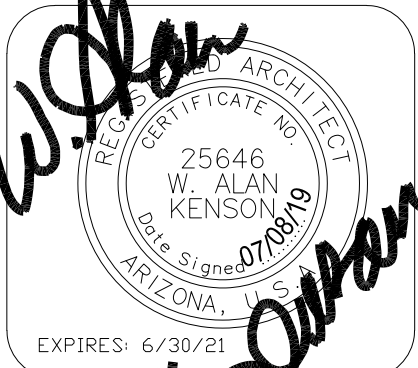


B1 Building Section

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

REVISIONS	BY
1 Town of PV COMMENTS 7/25/19, 7/30/19, 8/5/19	LO

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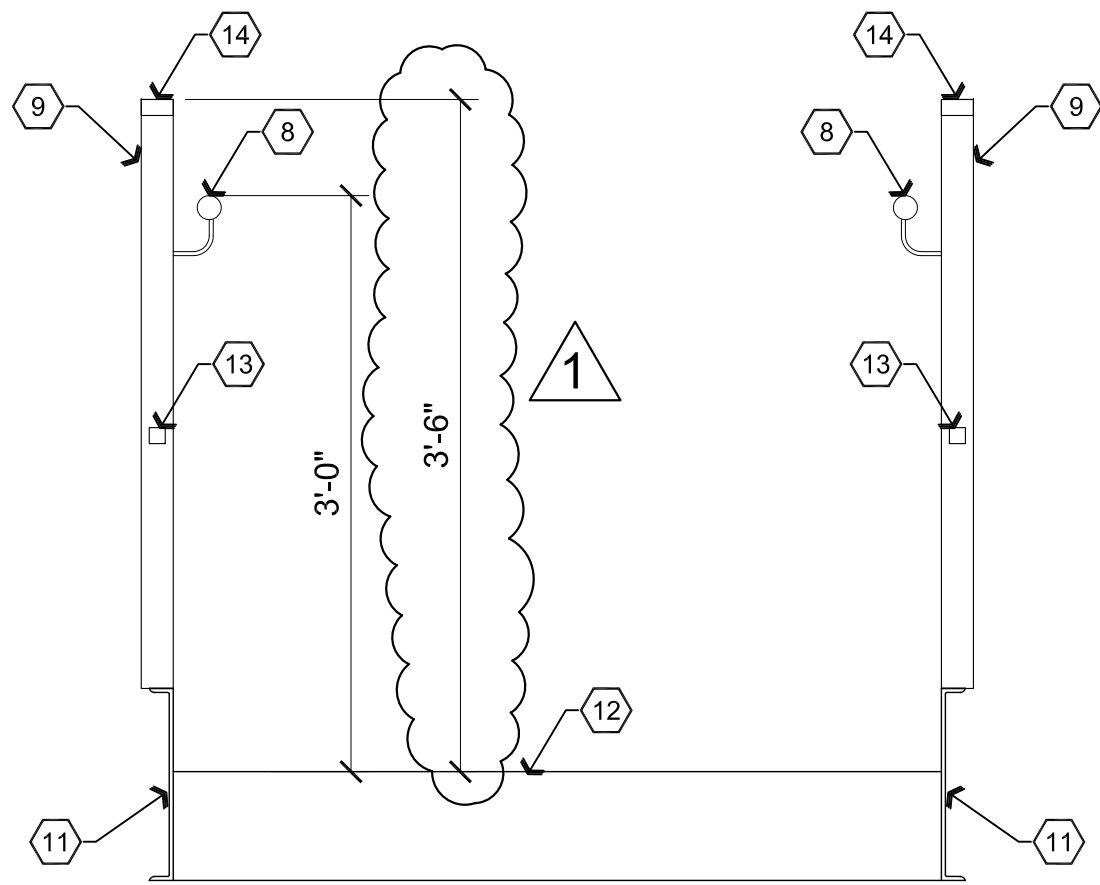
DRAWING: Building Sections

PROJECT: Yavapai Mechanical Building Addition
6914 N. Fulton Dr.
Prescott Valley, AZ 86314

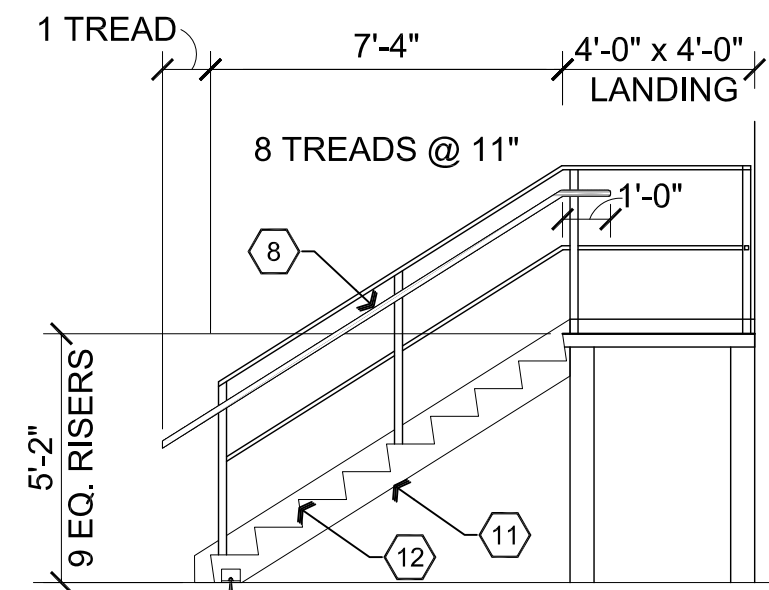
APN: 103-33-297C

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DATE August 1st, 2019
JOB NO. 733
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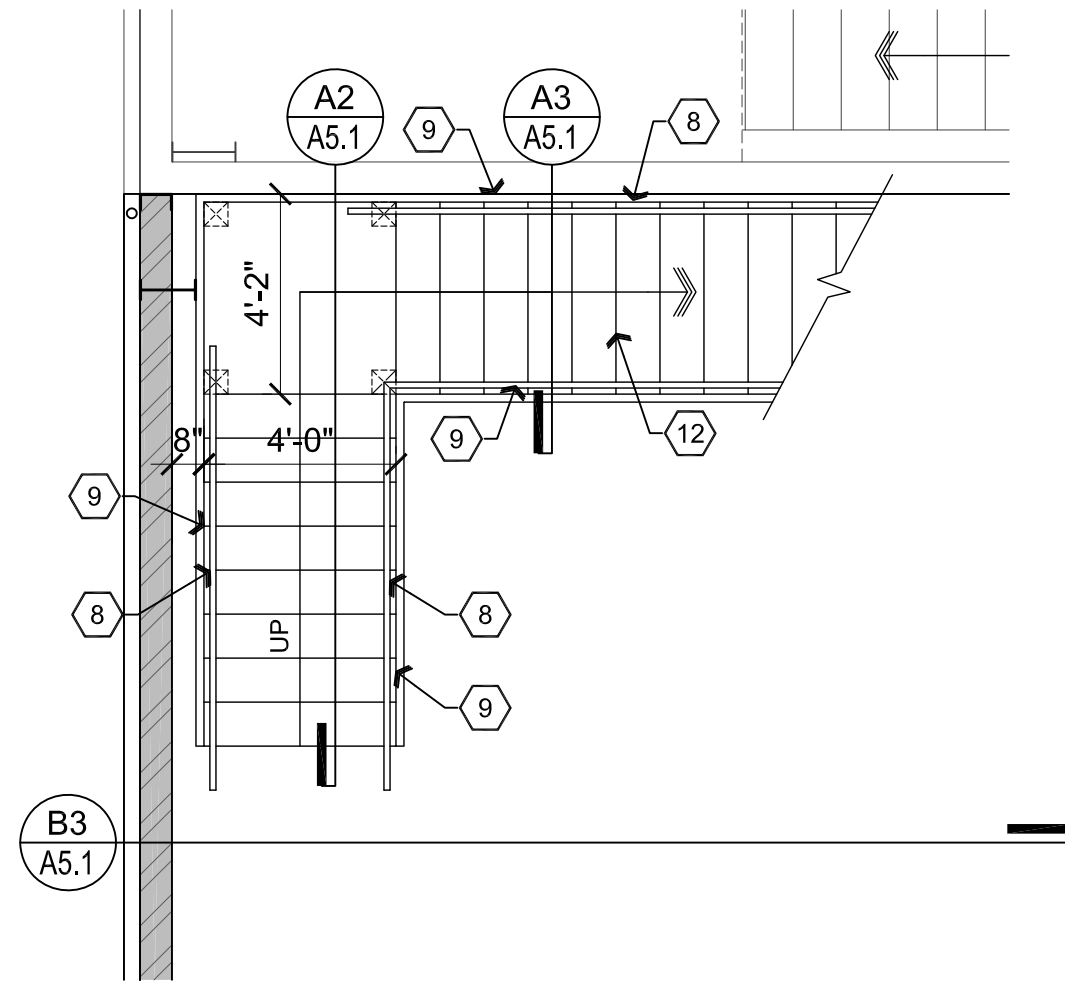
A5.0



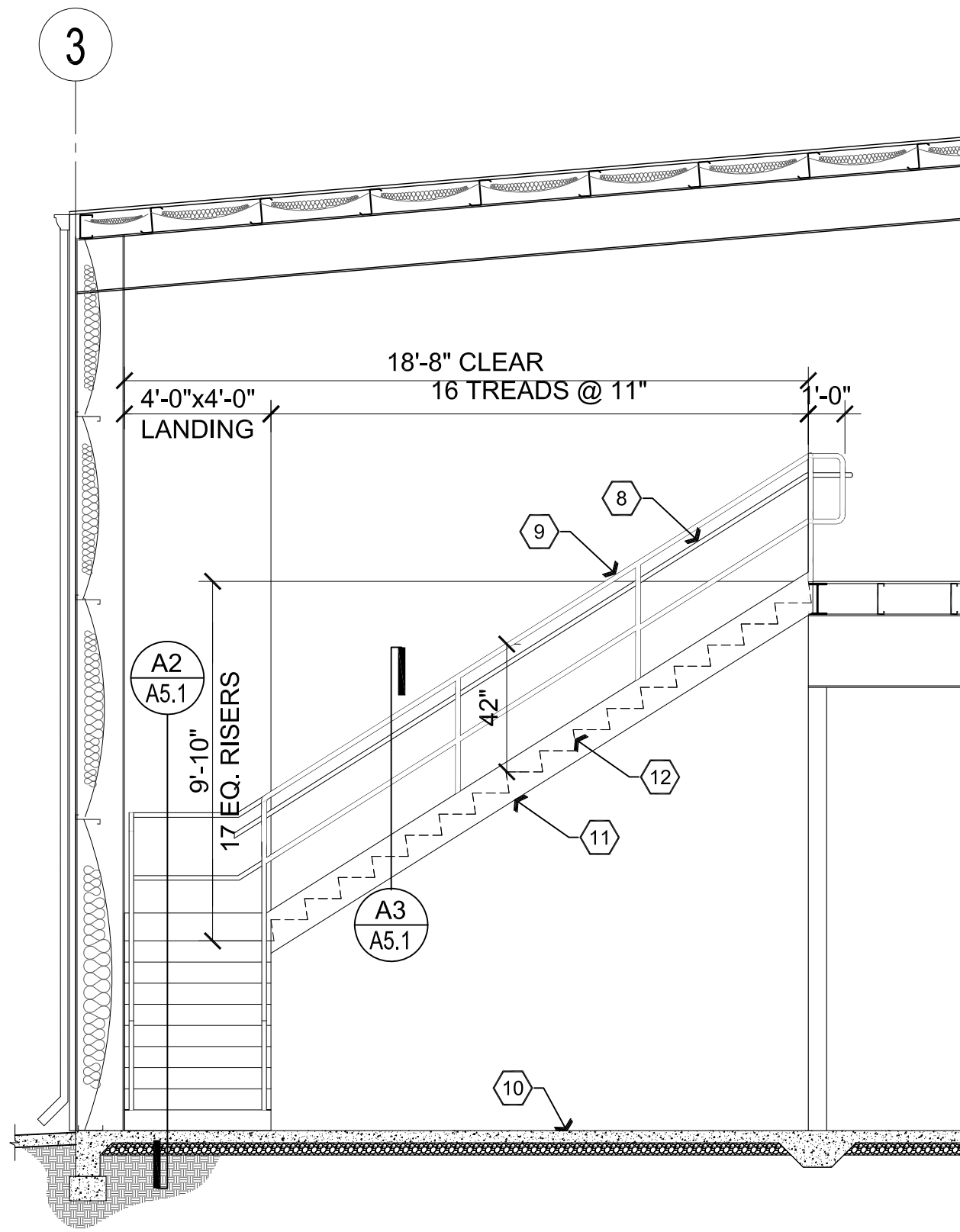
A3 Stair Section
Scale: 1"=1'-0"



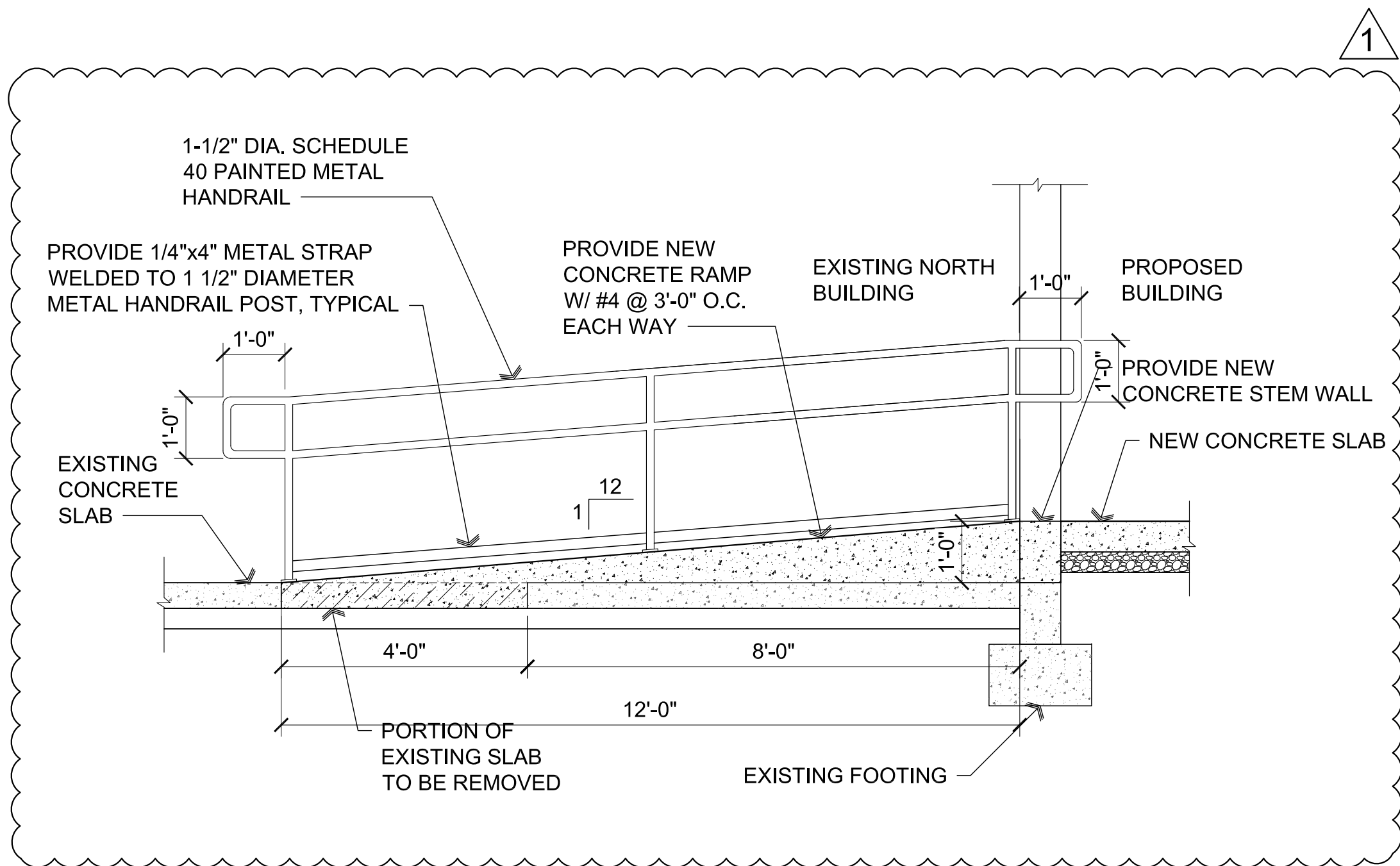
A2 Stair Section
Scale: 1/2"=1'-0"



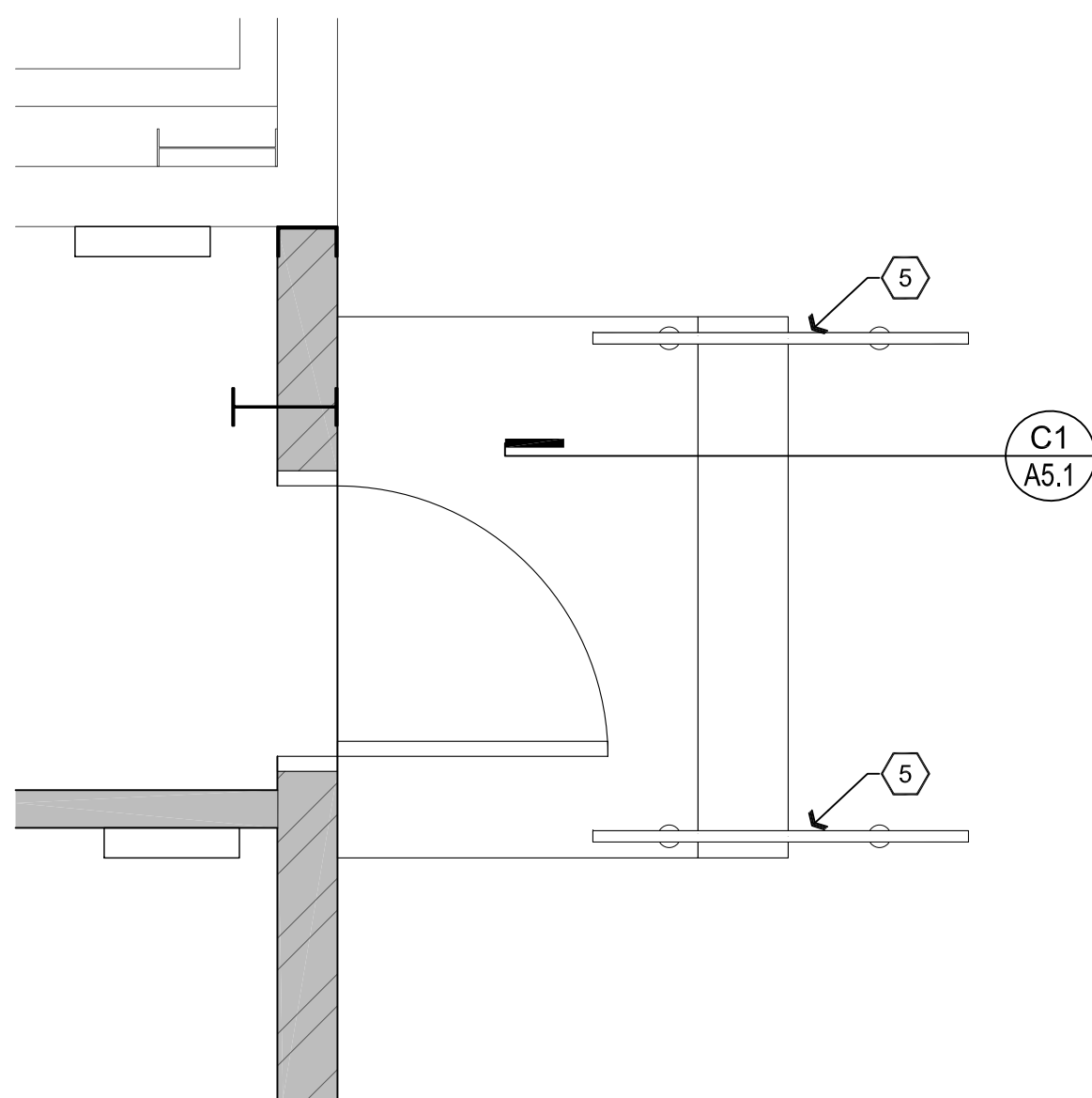
B2 Stair Plan
Scale: 1/4"=1'-0"



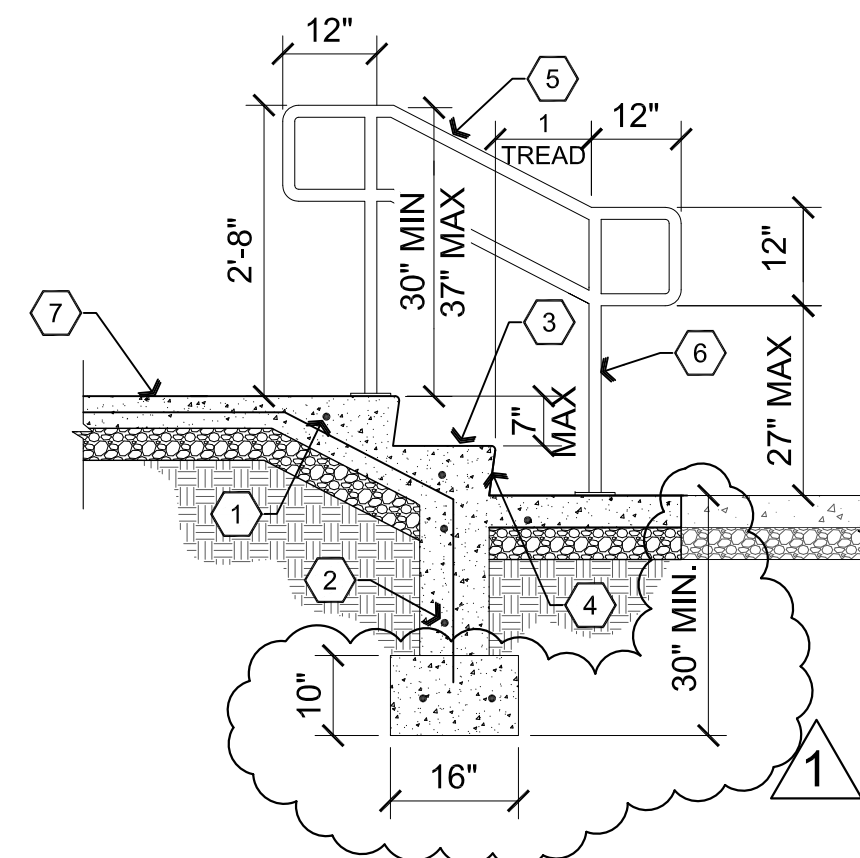
B3 Stair Section
Scale: 1/4"=1'-0"



A1 Ramp Section
Scale: 1/2"=1'-0"



B1 Stair Section
Scale: 1/2"=1'-0"



C1 Stair Section
Scale: 1/2"=1'-0"

Descriptive Keynotes

- #3 AT 12" O.C. EACH WAY.
- (1) #4 TOP AND BOTTOM.
- (1) 12" TREADS.
- (2) 7" MAX RISERS EQUAL HEIGHT. VERIFY IN FIELD.
- 1 1/2" DIAMETER SCHEDULE 40 PAINTED METAL HANDRAIL.
- 1 1/2" DIAMETER SCHEDULE 40 PAINTED METAL BALUSTER, TYPICAL.
- 4" THICK CONCRETE SIDEWALK W/ #3 @ 3'-0" O.C. EACH WAY OVER 4" COMPACTED A.B.C. PROVIDE 8" MINIMUM TURNDOWN ON SIDES.
- 1-1/2" SCHEDULE 40 PAINTED PIPE STEEL HANDRAIL @ 36" ABOVE STAIR NOSING. ATTACH TO GUARDRAIL / STAIR STRINGER.
- 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. CONCRETE SLAB - REFER TO STRUCTURAL PLANS.
- STEEL STRINGER - REFER TO STRUCTURAL PLANS.
- PRE-BENT 12 GAUGE DIAMOND PLATE, IBC COMPLIANT TREAD / RISERS - REFER TO STRUCTURAL PLANS.
- 1"x1"x1/8" PAINTED PIPE INTERMEDIATE RAIL.
- 2"x1"x3/16" PAINTED PIPE TOP RAIL.

REVISIONS	BY
1	LO

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ARCHITECTURE & PLANNING

DRAWING: Stair plans, Sections and Details

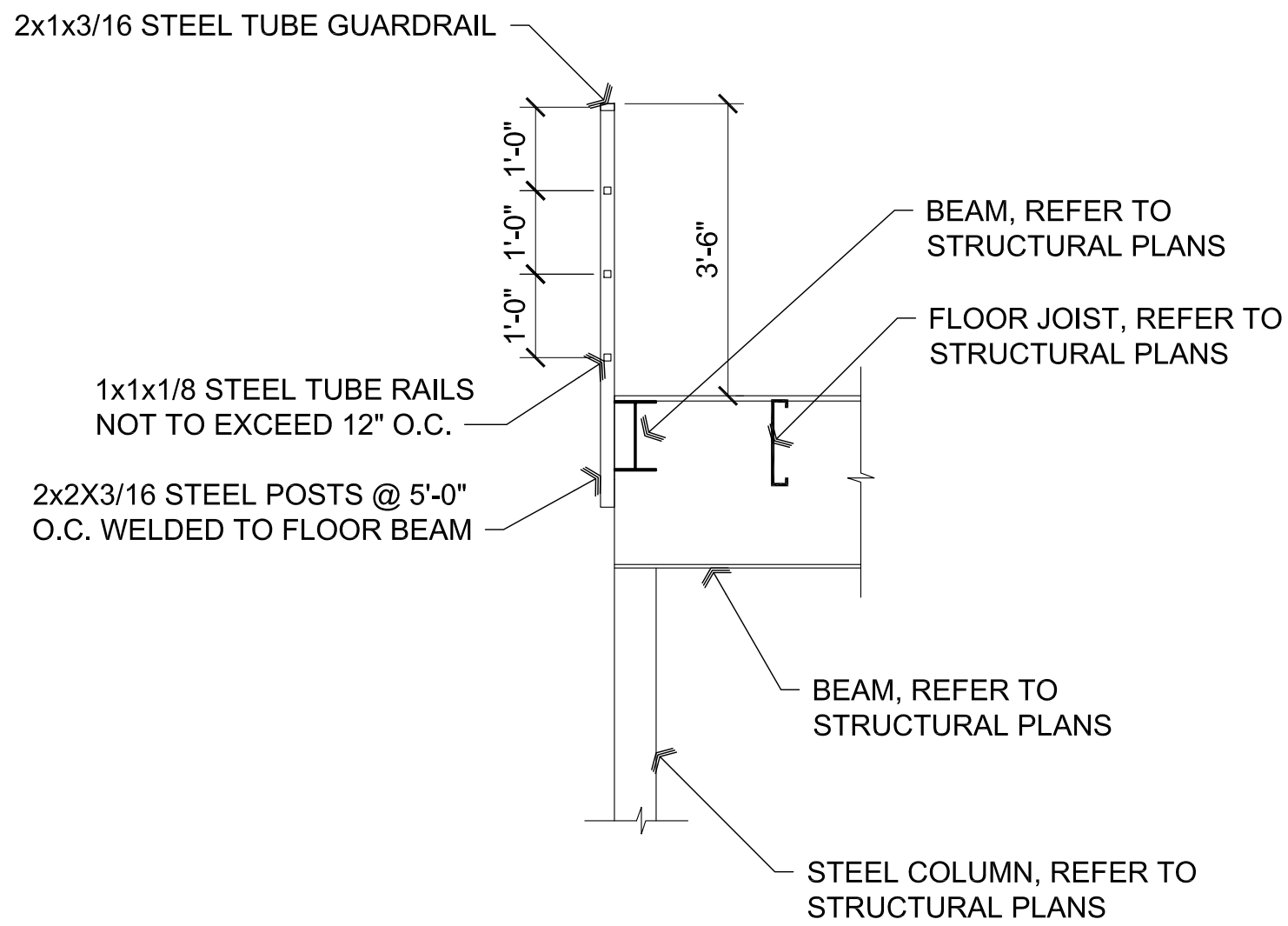
PROJECT: Yavapai Mechanical Building Addition
5914 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY
L.O.
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W.A.K.
DATE
August 1st, 2019
JOB NO.
733
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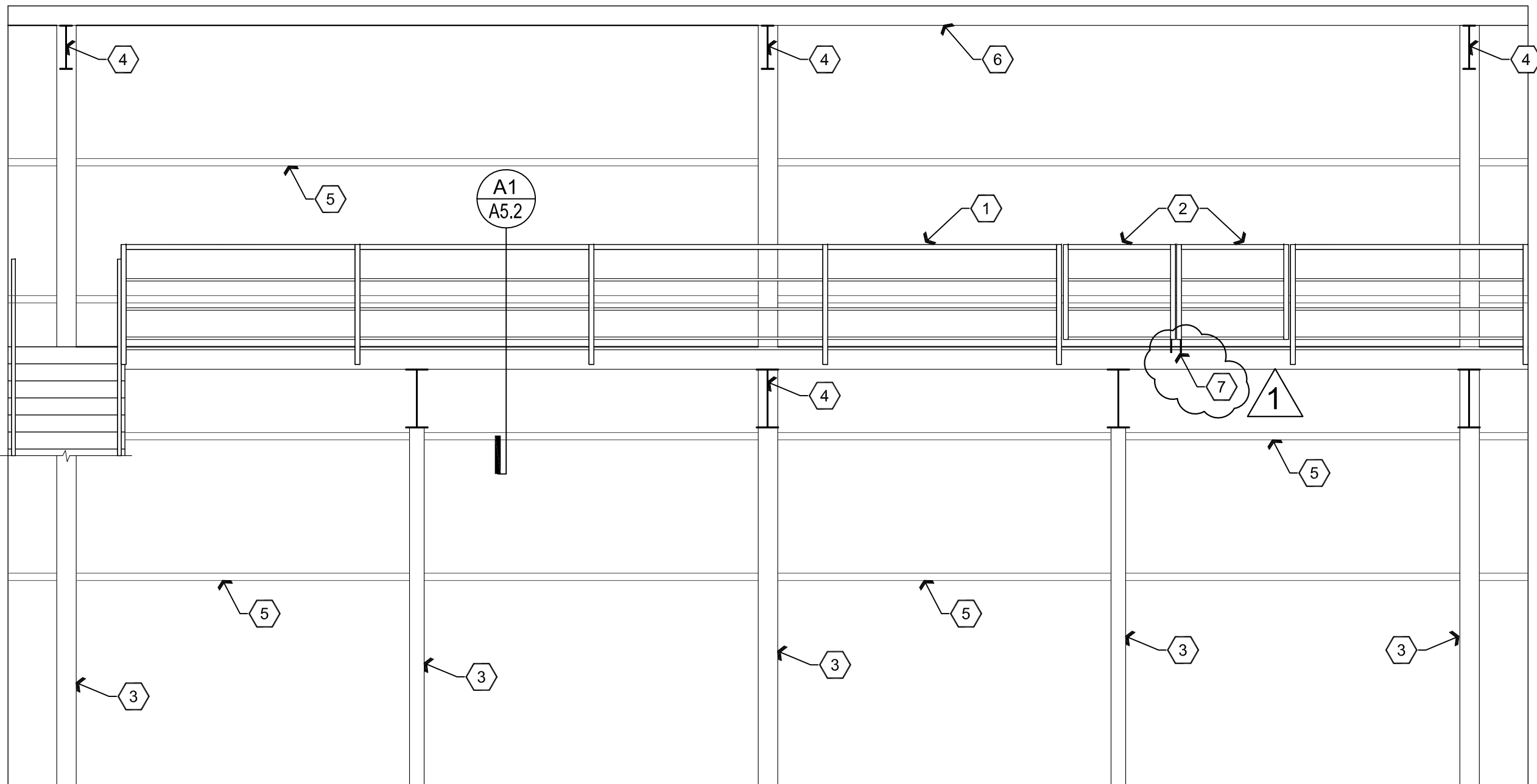
A5.1

Aug 20, 2019 - 3:48pm



A1 Guardrail Detail

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



B1 East Interior Elevation

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

Descriptive Keynotes

1. PROVIDE 2"x1"x3/16" STEEL TUBE GUARDRAIL PLACED AT 3'-6" ABOVE UPPER LEVEL FLOOR WITH INTERMEDIATE 1"x1"x1/8" STEEL TUBE RAILS NOT TO EXCEED 12" O.C. PROVIDE 2"x2"x3/16" STEEL POSTS SPACED AT 8'-0" O.C.
2. PROVIDE PAIR OF 4'-0" WIDE SWINGING STEEL GATES CONSTRUCTED SIMILAR TO GUARDRAIL CONSTRUCTION, REFER TO DESCRIPTIVE KEYNOTE #1.
3. PROVIDE STEEL COLUMN. REFER TO STRUCTURAL PLANS.
4. PROVIDE STEEL BEAM. REFER TO STRUCTURAL PLANS.
5. PROVIDE STEEL GIRT, TYPICAL. REFER TO STRUCTURAL PLANS.
6. PROVIDE STEEL PURLIN, REFER TO STRUCTURAL PLANS.
7. PROVIDE A DROP BOLT ON EACH SIDE TO SECURE GATE.

REVISIONS		BY
1	Town of PV COMMENTS 7/25/19, 7/30/19, 8/5/19	LO

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W. Alan Kenson

25646
W. ALAN
KENSION
Architect
Arizona
Expires: 6/30/21

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ARCHITECTURE & PLANNING

DRAWING: Guardrail Elevation and Detail

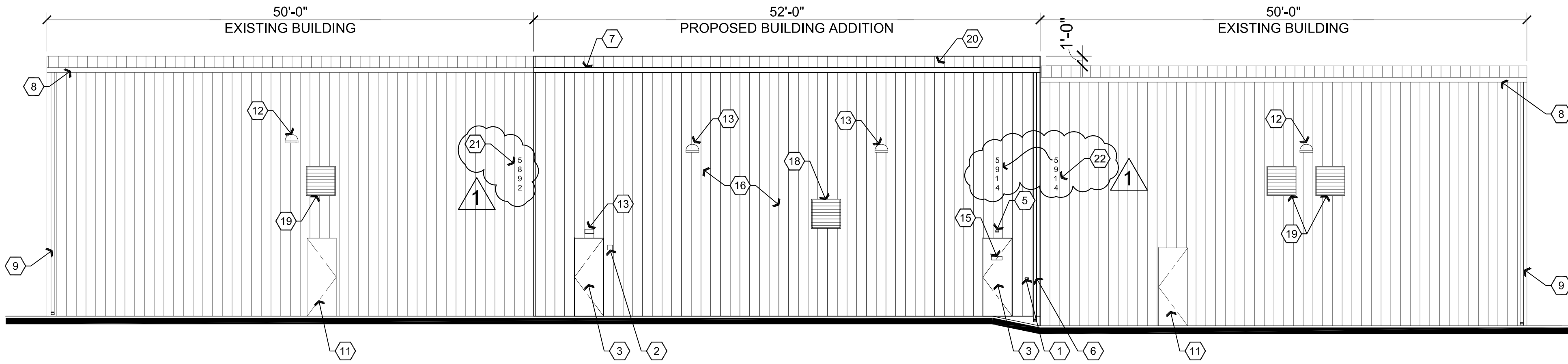
PROJECT: Yavapai Mechanical Building Addition
5914 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE August 1st, 2019
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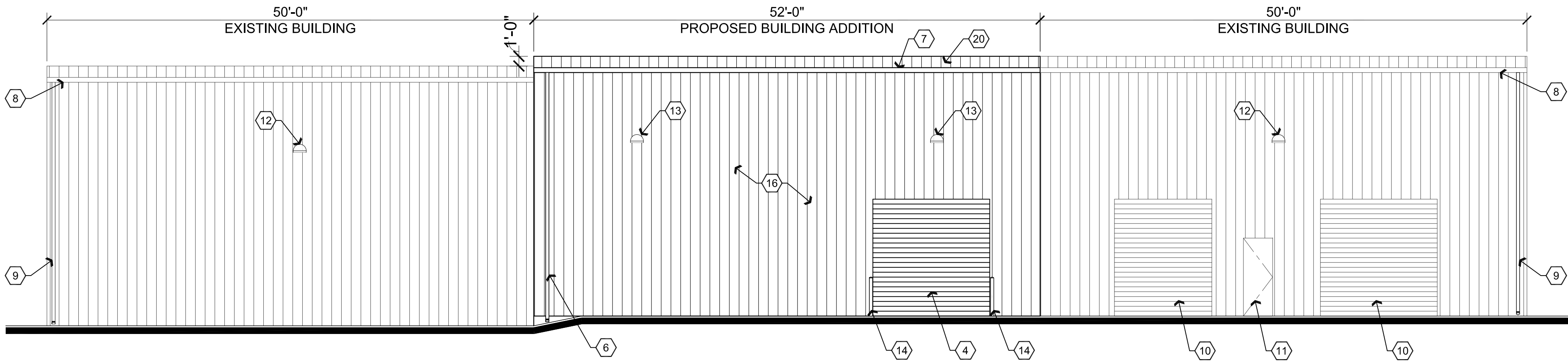
A5.2

Aug 20, 2019 - 3:45pm



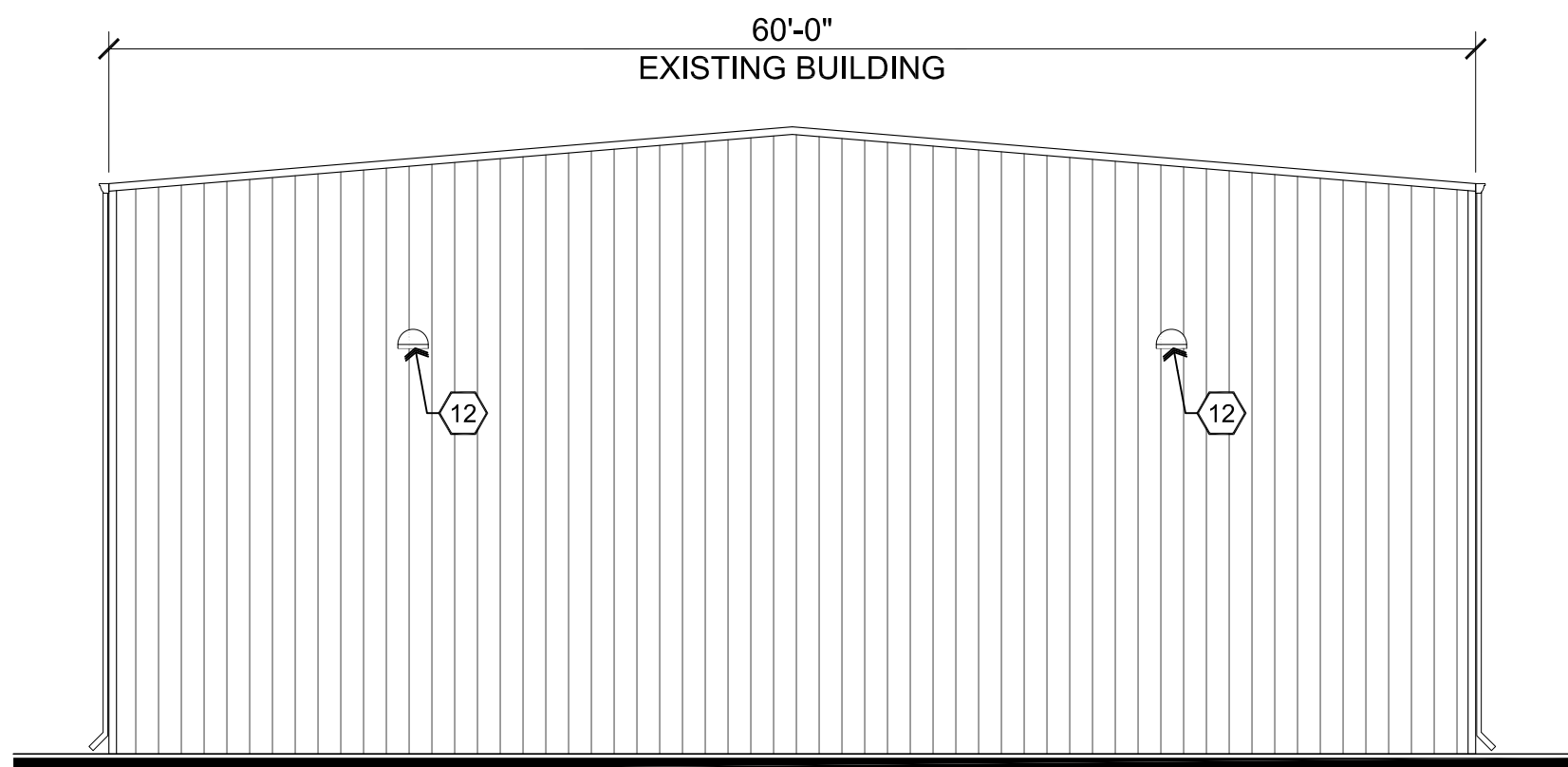
A3 East Elevation

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



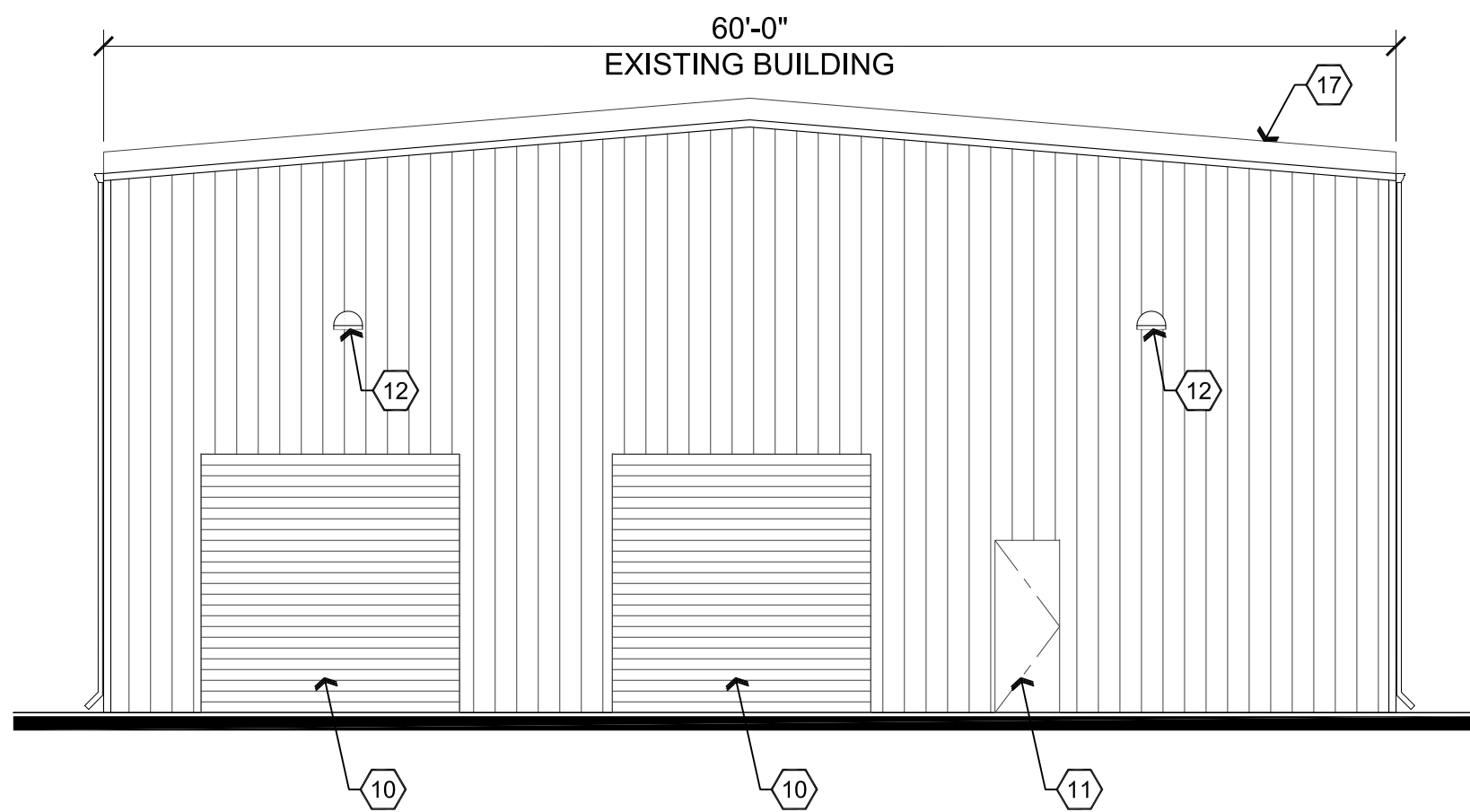
A2 West Elevation

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



A1 Existing South Elevation

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



B1 Existing North Elevation

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

Descriptive Keynotes

1. PROVIDE FIRE DEPARTMENT CONNECTION WITH LOCKING CAPS, REFER TO FIRE SPRINKLER PLANS.
2. PROVIDE FIRE DEPARTMENT LOCK BOX MOUNTED 6'-0" A.F.F.
3. PROVIDE DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
4. PROVIDE ROLL-UP DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
5. PROVIDE FIRE ALARM GONG, REFER TO AUTOMATIC FIRE SPRINKLER PLANS.
6. PROVIDE SHEET METAL DOWNSPOUT, REFER TO MATERIALS SCHEDULE. M-4
7. PROVIDE SHEET METAL GUTTER, REFER TO MATERIALS SCHEDULE. M-3
8. EXISTING GUTTER.
9. EXISTING DOWNSPOUT.
10. EXISTING ROLL-UP DOOR.
11. EXISTING DOOR.
12. EXISTING LIGHT FIXTURE.
13. PROVIDE NEW LIGHT FIXTURE, REFER TO ELECTRICAL PLANS.
14. 4" STEEL CONCRETE FILLED BOLLARDS, 4'-0" ABOVE CONCRETE WITH 2'-0" EMBEDDED INTO CONCRETE FOOTING BELOW, TYPICAL.
15. PROVIDE SIGN STATING "FIRE RISER INSIDE". LETTERS SHALL BE MINIMUM OF 1" TALL, RED IN COLOR ON WHITE BACKGROUND.
16. PROVIDE METAL WALL PANEL. REFER TO , WALL TYPES PLAN AND MATERIALS SCHEDULE. M-5
17. PROPOSED BUILDING ADDITION BEYOND.
18. PROPOSED EVAPORATIVE COOLER LOUVER.
19. EXISTING EVAPORATIVE COOLER LOUVER.
20. PROVIDE METAL ROOF PANELS, REFER TO MATERIALS SCHEDULE. M-1
21. REMOVE EXISTING ADDRESS NUMBERS FROM EXISTING SOUTH BUILDING.
22. EXISTING ADDRESS NUMBERS TO BE RELOCATED TO ABOVE FIRE RISER ROOM DOOR.

1

REVISIONS

BY

1

Town of PV COMMENTS
7/25/19, 7/30/19, 8/5/19

LO

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ARCHITECTURE & PLANNING

DRAWING: Exterior Elevations

PROJECT: Yavapai Mechanical Building Addition
5914 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

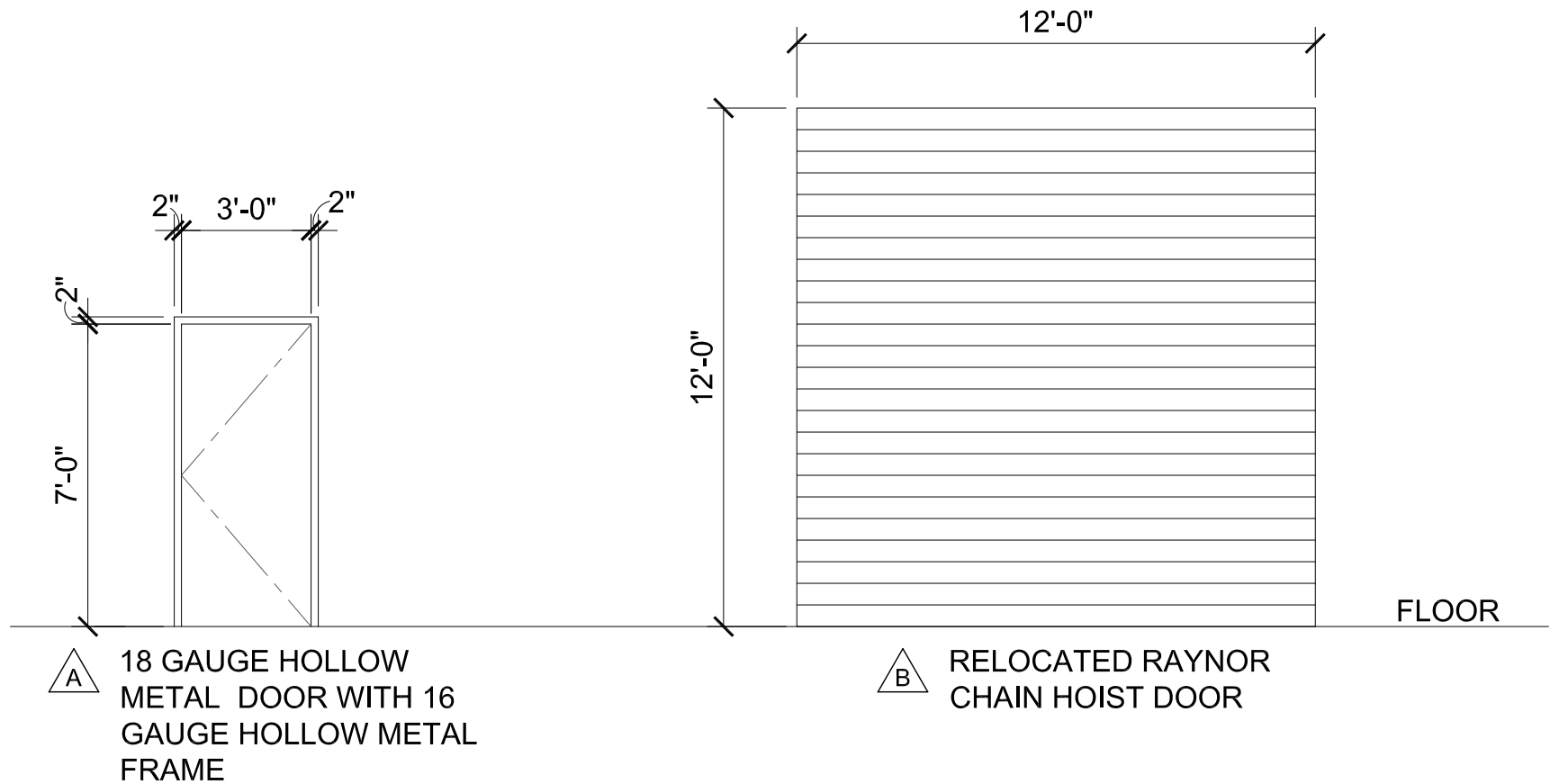
DRAWN BY
L.O.
CHECKED BY
W.A.K.
DATE
August 1st, 2019
JOB NO.
733
SHEET

A6.0

Materials schedule				
XX- #				
CODE	MATERIAL	LOCATION	MANUFACTURER	SPECIFICATION
M-1	METAL ROOF PANEL	ROOF	MBCI	PBR PANEL, 26 GAUGE, PRE-PAINTED TO MATCH EXISTING
M-2	RIDGE CAP	ROOF	MBCI	SIGNATURE 200, TO MATCH EXISTING
M-3	METAL RAIN GUTTER	EXTERIOR	MBCI	26 GAUGE, SIGNATURE 200 PRE-PAINTED TO MATCH EXISTING
M-4	METAL DOWNSPOUT	EXTERIOR	MBCI	26 GAUGE, SIGNATURE 200 PRE-PAINTED TO MATCH EXISTING
M-5	EXTERIOR METAL WALL PANEL	EXTERIOR WALLS	MBCI	PBR PANEL 26 GAUGE, SIGNATURE 200 PRE-PAINTED TO MATCH EXISTING

Door Schedule								
NO.	ROOM NAME	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE TYPE
100A	WAREHOUSE	12'-0"x12'-0" RELOCATED	B	STEEL	PAINT	STEEL	PAINT	RELOCATED
100B	WAREHOUSE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	1
100C	FIRE RISER	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	1
<div>NOTES:</div> <div><div>1.</div><div>ALL EXIT DOORS & HARDWARE SHALL COMPLY WITH THE 2012 I.B.C.</div></div> <div><div>2.</div><div>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.</div></div> <div><div>3.</div><div>ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING.</div></div> <div><div>4.</div><div>ALL INTERIOR DOORS SHALL BE OPERABLE FOR EMERGENCY EXITING PURPOSES WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE NOR EFFORT.</div></div> <div><div>5.</div><div>ALL GLAZING WITHIN 24" OF OPENINGS SHALL BE SAFETY GLASS.</div></div> <div><div>6.</div><div>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.</div></div> <div><div>7.</div><div>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.</div></div> <div><div>8.</div><div>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.</div></div>								

Hardware Schedule	
HW-01:	LEVER ENTRY LOCK, CHAIN STOP, WEATHER STRIP, THRESHOLD, DOOR BOTTOM



1

REVISIONS

BY

Town of PV COMMENTS
7/25/19, 7/30/19, 8/5/19

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ARCHITECTURE & PLANNING

DRAWING: Schedules

PROJECT: Yavapai Mechanical Building Addition
5914 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

1

Yavapai Mechanical Building Addition
5914 N. Fulton Dr.
Prescott Valley, AZ 86314
103-33-297C

DRAWN BY
L.O.

CHECKED BY
W.A.K.

DATE
August 1st, 2019

JOB NO.
733

SHEET

A7.0

GENERAL REQUIREMENTS:

1.

THE STRUCTURAL SYSTEMS AND MEMBERS DEPICTED HEREIN HAVE BEEN DESIGNED PRIMARILY TO SAFEGUARD AGAINST MAJOR STRUCTURAL DAMAGE AND LOSS OF LIFE, NOT TO LIMIT DAMAGE OR MAINTAIN FUNCTION (IBC SECTION 101.3).
2.

THESE DRAWINGS, AND THEIR ASSOCIATED STRUCTURAL CALCULATIONS, HAVE BEEN PERFORMED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEER'S IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWLEDGE OF THE INTERNATIONAL BUILDING CODE CONVENTIONAL FRAMING REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR FRAMING ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3.

THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, AND SHALL COORDINATE ALL DETAILS.
4.

WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. TYPICAL DETAILS AND NOTES ARE NOT NECESSARILY INDICATED ON THE PLANS, BUT SHALL APPLY NONE-THE-LESS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.
5.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL, WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
6.

ANY INSPECTIONS, SPECIAL (IBC CHAPTER 17) OR OTHERWISE THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR BY THESE PLANS SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY OR THE BUILDING DEPARTMENT. SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.
7.

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DRAWINGS SHALL BE FLAGGED UPON HIS REVIEW. VERIFY ALL DIMENSIONS WITH ARCHITECT. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER THE STRUCTURAL ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A STRUCTURAL ENGINEER REGISTERED IN THE APPROPRIATE STATE. THE SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER ARE NOT TO BE CONSIDERED CHANGES TO ORIGINAL DRAWINGS. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY THE OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ALLOW (S) WORKING DAYS FOR THE STRUCTURAL ENGINEER'S REVIEW. ONE COPY OF EACH SUBMITTAL WILL BE RETAINED FOR THE STRUCTURAL ENGINEER'S RECORDS.

BASIS FOR DESIGN:

1.

BUILDING CODE: 2012 EDITION OF THE IBC WITH CITY/COUNTY AMENDMENTS.

RISK CATEGORY = II
2.

VERTICAL LOADS:

LOCATION	LIVE / SNOW LOAD	DEAD LOAD
ROOF	30 PSF	10 PSF
FLOOR	125 PSF	10 PSF
STAIRS	100 PSF	25 PSF

3. SEISMIC DESIGN PARAMETERS:	
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
IMPORTANCE FACTOR	Ie = 1.00
SITE CLASS	D
SEISMIC DESIGN CATEGORY	C
SPECTRAL RESPONSE ACCELERATIONS	Sms = 0.480, Sm1 = 0.216
SPECTRAL RESPONSE COEFFICIENTS	Sds = 0.320, Sd1 = 0.144
HORIZONTAL SHEAR TRANSFER ELEMENTS:	
X-BRACE(S)	R = 3.0
PLYWOOD-FLEXIBLE DIAPHRAM(S)	R = 6.5
VERTICAL SHEAR TRANSFER ELEMENTS:	
X-BRACE(S)	R = 3.0
RIGID STEEL FRAME(S)	R = 3.0

4. WIND DESIGN PARAMETERS (STRENGTH):	
WIND SPEED	115 MPH (3 SECOND GUST)
WIND EXPOSURE	C
IMPORTANCE FACTOR	Iw = 1.00
INTERNAL PRESSURE COEFFICIENT	+/-0.18
COMPONENT AND CLADDING PRESSURE	33.5 PSF
NET UPLIFT ON ROOF	27.6 PSF

FOUNDATION NOTES:

1.

FOUNDATIONS DESIGNED IN CONFORMANCE WITH RECOMMENDATIONS BY: **ENGINEERING TESTING CONSULTANTS, INC. REPORT NO. 3047 DATED FEBRUARY 28, 2002.**
2.

SITE PREPARATION AND GRADING REQUIREMENTS OF THE SOIL REPORT AND ANY ADDENDUM'S SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF FOUNDATIONS. ANY TESTS OR INSPECTIONS REQUIRED BY THE SOIL REPORT SHALL BE PERFORMED PRIOR TO PLACEMENT OF FOUNDATION REINFORCING STEEL OR CONCRETE. ALTERATIONS TO SITE PREPARATION OR GRADING SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.

THE SOIL DESIGN VALUES FOR THE FOUNDATION ARE:

ALLOWABLE BEARING PRESSURE	1500 PSF
SITE CLASS	D

3. A ONE-THIRD INCREASE IN BEARING PRESSURES IS ALLOWED WITH SEISMIC OR WIND LOAD COMBINATIONS. LATERAL BEARING AND LATERAL SLIDING RESISTANCE MAY BE COMBINED.	
---	--

FOUNDATION BEARING DEPTH	
30" BELOW FINISHED GRADE	

4.

ALL FOUNDATIONS SHALL BEAR ON UNDISTURBED NATURAL SOIL OR LEAN CONCRETE. SLURRY 30 INCHES MINIMUM BELOW FINISH GRADE. GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5 FEET OF THE BUILDING FOR PERIMETER FOOTINGS. WHERE EXTERIOR PAVING OR CONCRETE IS DIRECTLY ADJACENT TO BUILDING, GRADE IS DEFINED AS TOP OF EXTERIOR PAVING AT LEAST 5 FEET FROM BUILDING. CONCRETE FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE OF LOOSE DEBRIS OR UN-COMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT.
5.

INTERIOR CONCRETE SLABS ON GRADE SHALL BE SUPPORTED ON A 12 INCH LAYER OF SELECT FILL MATERIAL ACCORDING TO THE SPECIFICATIONS OF THE SOIL REPORT.
EXTERIOR CONCRETE SLABS ON GRADE SHALL BE SUPPORTED ON A 8 INCH LAYER OF SELECT FILL MATERIAL ACCORDING TO THE SPECIFICATIONS OF THE SOIL REPORT.
FILL MATERIAL SHOULD BE MOISTENED, BUT NOT SATURATED JUST PRIOR TO PLACING CONCRETE.

CONCRETE:

1.

MINIMUM 28 DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS:

USE:	CONCRETE STRENGTH:	REMARKS:
FOUNDATIONS	3000 PSI	DESIGNED FOR 2500 PSI
CONCRETE SLABS ON GRADE	3000 PSI	W/O INSPECTION

2.

ALL NORMAL WEIGHT CONCRETE SHALL BE REGULAR WEIGHT OF 150 POUNDS PER CUBIC FOOT USING HARD-ROCK AGGREGATES. AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C67 FOR ¾", ASTM C57 FOR 1" AND ASTM C467 FOR 1½" AGGREGATE.
3.

TENSION LAP SPLICES OF REINFORCING STEEL IN CONCRETE SHALL BE AS FOLLOW:

REBAR SIZE	STANDARD LAP
#3	20"
#4	32"
#5	39"
#6	47"

LAP SPLICES FOR BEAMS AND FLOOR SLABS SHALL BE ACCORDING TO CHAPTER 12 OF ACI 318 OR LAP SCHEDULE ON THESE DRAWINGS.

STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES.

4.

ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. MINIMUM COVER FOR NON-PRESTRESSED CONCRETE REINFORCING SHALL BE AS FOLLOWS:

LOCATION:	MINIMUM COVER	TOLERANCE
CAST AGAINST EARTH (FOOTINGS)	3"	± ¾"
SLABS ON GRADE	1½"	± ¾"
EXPOSED TO EARTH OR WEATHER - #5 AND SMALLER	1½"	± ¾"
EXPOSED TO EARTH OR WEATHER - #6 AND LARGER	2"	± ¾"

5.

MAXIMUM SLUMP FOR ALL CONCRETE SHALL BE 4". SLUMP FOR EXTERIOR SLABS SHALL BE 6". PORTLAND CEMENT SHALL CONFORM TO ASTM C150. TYPE V CEMENT SHALL BE USED FOR CONCRETE IN CONTACT WITH ALKALINE SOIL, AND TYPE II ELSEWHERE.
6.

NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY THE TESTING AGENCY.
7.

CONCRETE PLACEMENT AND QUALITY SHALL BE PER RECOMMENDATIONS IN ACI 614, ACI 301 AND ACI 318. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND AND UNDER FLOOR DUCTS, ETC. CAST CLOSURE POUR, WHERE SHOWN ON PLANS AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.

ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.

8.

ALL CONCRETE SLABS ON GRADE SHALL BE DIVIDED INTO AREAS BY CONTROL JOINTS (KEYED OR SAW CUT) SUCH THAT ONE SLAB AREA DOES NOT EXCEED 250 SQUARE FEET, OR BE MORE THAN TWO TIMES LONGER THAN THE SLAB AREA WIDTH. THE FOUNDATION PLAN SHOWS A SUGGESTED METHOD OF CONTROL JOINT LAYOUT. IT IS RECOMMENDED THAT SAW CUTS BE MADE WITHIN 16 HOURS OF CONCRETE BATCHING.

KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAW CUT.

9.

HORIZONTAL PIPES AND ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE AND SLABS ON GRADE EXCEPT WHERE SPECIFICALLY APPROVED OR NOTED BY THE STRUCTURAL ENGINEER. PIPES AND CONDUITS SHALL NOT IMPAIR THE STRENGTH OF THE WORK.

10.

FLY ASH MAY BE USED ONLY IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS AND SHALL BE LIMITED TO 18 PERCENT OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.

11.

COLD/HOT WEATHER CONCRETE CONSTRUCTION: PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH IN COMPLIANCE WITH ACI 305 AND 306.

GENERAL STRUCTURAL NOTES

(APPLY UNLESS NOTED OTHERWISE ON PLANS/DETAILS)

REINFORCING STEEL:

1.

ASTM A615 GRADE 60 (FY = 60 KSI) DEFORMED BARS FOR ALL BARS #5 AND LARGER. ASTM A615 GRADE 40 (FY = 40 KSI) DEFORMED BARS FOR ALL BARS #4 AND SMALLER. GRADE 60 DEFORMED BARS SHALL BE USED FOR CONCRETE WALLS, BEAMS, ELEVATED SLABS AND COLUMN REINFORCING.
2.

WELDING OF REINFORCING BARS SHALL BE MADE ONLY TO ASTM A706 GRADE 60 BARS AND ONLY USING E90 SERIES RODS. WELDING OF REINFORCING BARS SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS.
3.

REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

STEEL:

1.

MATERIALS: ROLLED W SHAPES, SHALL CONFORM TO ASTM A992 (FY=50 KSI). ALL OTHER STRUCTURAL STEEL SHAPES, ROLLED SECTIONS, BARS AND PLATES SHALL CONFORM TO ASTM A36 (FY = 36 KSI). ALL PIPE STEEL SHALL BE ASTM A501 (FY = 36 KSI) OR ASTM A53, TYPE E OR S, GRADE B (FY = 35 KSI). ALL TUBULAR STEEL SHALL BE ASTM A500 (FY = 46 KSI).
2.

ALL BOLTS AND STUDS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE. ALL EXPANSION BOLTS TO HAVE CURRENT ICBO RATING FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE. HEADED STUDS SHALL CONFORM TO ALL REQUIREMENTS OF THE LATEST EDITION OF THE "RECOMMENDED PRACTICES FOR STUD WELDING" AND THE "STRUCTURAL WELDING CODE" PUBLISHED BY AWS. ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC. SHALL BE INSTALLED WITH STEEL WASHERS AT FACE OF WOOD OR AT SLOTTED HOLES IN STEEL SECTIONS.
3.

ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.
4.

WELDING SHALL BE BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. ALL WELDING SHALL USE E70 SERIES LOW-HYDROGEN RODS UNLESS NOTED OTHERWISE. ALL WELDING PER LATEST AMERICAN WELDING SOCIETY STANDARDS. ALL WELDS ON DRAWINGS ARE SHOWN AS SHOP WELDS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT HIS DISCRETION. ALL FULL PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.
5.

STEEL TO STEEL BOLTED CONNECTIONS: HIGH STRENGTH BOLTS SHALL BE ASTM A325N AND SHALL BE INSTALLED AS BEARING-TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE (TYPE "N" CONNECTION). BOLTS MAY BE TIGHTENED USING ANY AISC APPROVED METHOD.
6.

DRYPACK SHALL BE 5,000 PSI FIVE STAR NON-SHRINK GROUT OR EQUIVALENT. INSTALL DRYPACK UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL DRYPACK UNDER BASE PLATES AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO FLOOR OR ROOF INSTALLATION.

WOOD:

1.

PLYWOOD: ALL PLYWOOD SHALL BE C-D OR C-C SHEATHING CONFORMING TO STANDARD PS 1-09. LAY UP PLYWOOD WITH FACE GRAIN IN PERPENDICULAR TO SUPPORTS (ON ROOFS WHERE PLYWOOD IS LAID UP WITH FACE GRAIN PARALLEL TO SUPPORTS, USE A MINIMUM OF 5-PLY PLYWOOD, STAGGER JOINTS). ALL NAILING, COMMON NAILS. BLOCKING AT PANEL EDGES WHERE INDICATED ON PLANS. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS, SPAN/INDEX RATING AND SHALL BE NAILED AS FOLLOWS UNLESS NOTED OTHERWISE ON THE PLANS:

LOCATION:	NOMINAL THICKNESS:	SPAN INDEX RATING:	EDGE ATTACHMENT:	FBD ATTACHMENT:
FLOOR	¾" T&G	4½/4	#8 SCREWS AT 6" O.C.	#8 SCREWS AT 12" O.C.

PLYWOOD ALTERNATE: AMERICAN PLYWOOD ASSOCIATION PERFORMANCE RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFER. IT MAY NOT BE USED ON ROOFS WHERE BUILT-UP ROOF SYSTEM IS TO BE GUARANTEED BY ROOFER. RATED SHEATHING SHALL COMPLY WITH DOC PS 2-10. EXPOSURE 1, AND SHALL HAVE A SPAN RATING EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN ½") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

STEEL DECKING (ICBO #2078):

1.

PER ARCHITECTURAL DRAWINGS.
2.

ROOF DECK ATTACHMENT: PER TYPICAL DETAILS.
3.

WALL SHEETING (PER PANEL): DECK SHALL BE 1.25" DEEP, 36" WIDE, 26 GAUGE PRE-FINISHED STEEL, WITH MINIMUM YIELD STRESS OF 80 KSI, WITH MINIMUM S = 0.0381 IN"3 AND I = 0.0309 IN"4 PER FOOT OF WIDTH.
4.

SHEETING ATTACHMENT: PER TYPICAL DETAILS.

COLD FORMED STEEL (ICBO ER 4943P):

1.

MATERIALS: STANDARD COLD-FORMED STEEL STUDS, JOISTS, TRACK, BRIDGING AND STRAPS SHALL CONFORM TO AISI NAS-01 WITH 2004 SUPPLEMENT (FY = 33 KSI). STEEL FOR PURLINS AND GIRTS SHALL CONFORM TO (FY = 55 KSI). STEEL SHALL BE GALVANIZED AT EXTERIOR WALLS AND FRAMING.
2.

FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE(AISI).
3.

ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAGE STRUCTURAL STEEL FRAMING WORK. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM EFFECTIVE PROPERTIES PER STEEL STUD MANUFACTURERS ASSOCIATION(SSMA):

DEFERRED SUBMITTAL ITEMS:

STEEL ERECTION SHOP DRAWINGS

SPECIAL INSPECTION ITEMS:

1.

THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION OF CERTAIN TYPES OF WORK. PER IBC SECTION 1704 AND THE STRUCTURAL ENGINEER OF RECORD, SPECIAL INSPECTION IS (IS NOT) REQUIRED AS FOLLOWS:

TYPE OF WORK:	REQUIRED:	REMARKS:
SOIL BEARING SUBGRADE	YES	PER GEOTECHNICAL REPORT
CONCRETE SLAB ON GRADE	NO	DESIGN BASED ON f'c=2500 PSI
CONCRETE FOUNDATIONS	NO	DESIGN BASED ON f'c=2500 PSI
FIELD WELDING	YES	AFTER WORK IS COMPLETE
STEEL TO STEEL BOLTED CONNECTIONS	YES	AFTER WORK IS COMPLETE
EPOXY ANCHORS	YES	DURING INSTALLATION.

SPECIAL INSPECTIONS NOT LISTED ABOVE ARE NOT REQUIRED BY FSE. HOWEVER, ADDITIONAL SPECIAL INSPECTIONS MAY BE REQUIRED BY THE BUILDING OFFICIAL.

2.

DESIGNATION OF SPECIAL INSPECTOR:A SPECIAL INSPECTION CERTIFICATE-CORRESPONDING TO THE REQUIREMENTS IN THE TABLE ABOVE HAS BEEN PROVIDED WITH THESE DRAWINGS BY FSE FOR PERMITTING PURPOSES.

A. ACCORDING TO THE SI CERTIFICATE, THE SPECIAL INSPECTOR SHALL BE, OR WORK UNDER THE DIRECT SUPERVISION OF THE STRUCTURAL ENGINEER OF RECORD - FROST STRUCTURAL ENGINEERING (FSE) (928) 776-4757. FSE IS NOT RESPONSIBLE FOR SPECIAL INSPECTIONS IF WE ARE NOT CONTACTED OR CONTRACTED TO DO SO.

B. TO SCHEDULE ANY SPECIAL INSPECTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SPECIAL INSPECTOR AT LEAST ONE DAY IN ADVANCE.

C. AN ALTERNATE SPECIAL INSPECTOR MAY BE USED BY OBTAINING A NEW SI CERTIFICATE, AND MAKE THE NECESSARY NOTIFICATIONS TO ALL PARTIES INVOLVED. THE ALTERNATE SPECIAL INSPECTOR SHALL BE AN ARIZONA LICENSED CIVIL OR STRUCTURAL ENGINEER OR AN ICC CERTIFIED SPECIAL INSPECTOR.

D. FOR GEOTECHNICAL ITEMS LISTED ABOVE, THE SPECIAL INSPECTOR SHALL BE, OR WORK UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OF THE BUILDING OFFICIAL.
3.

QUALITY ASSURANCE PROGRAM:

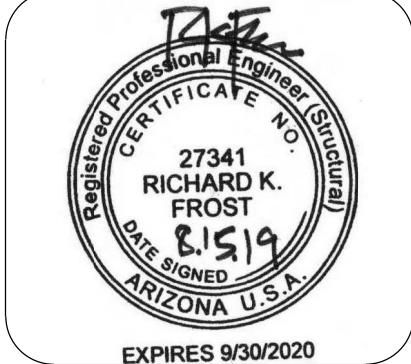
A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE STRUCTURAL ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.

C. UPON COMPLETION OF THE ASSIGNED WORK THE STRUCTURAL ENGINEER SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.

REVISIONS	BY

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W. Alan Kenson & Associates, P.C.

REGISTERED PROFESSIONAL ARCHITECT

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100-33-297B

100-33-297B

DRAWING: S1 GENERAL STRUCTURAL NOTES - S1
GENERAL STRUCTURAL NOTES

PROJECT: Yavapai Mechanical Building Addition
5860 N. Fulton Drive
Prescott Valley, AZ. 86314

PROJECT: 100-33-297B

DRAWN BY	GU
CHECKED BY	AGK
DATE	6/28/19
SCALE	AS NOTED
JOB NO.	2019-0064
SHEET	S1

DRAWING INDEX		
DETAILS	SHEET	DESCRIPTION
---	S1	GENERAL STRUCTURAL NOTES
T1-T11	S11	TYPICAL DETAILS
---	S2	FOUNDATION PLAN
---	S3	FRAMING PLAN
220-225	S31	STRUCTURAL ELEVATIONS
101-110	S4	FOUNDATION DETAILS
201-219	S5	FRAMING DETAILS

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JOB NO.: 2019-0064

PROJECT MANAGER: ANDY K

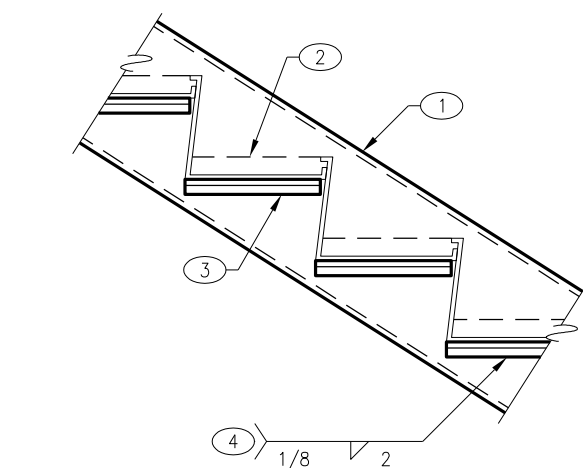
CAD OPERATOR: GU

FROST STRUCTURAL ENGINEERING

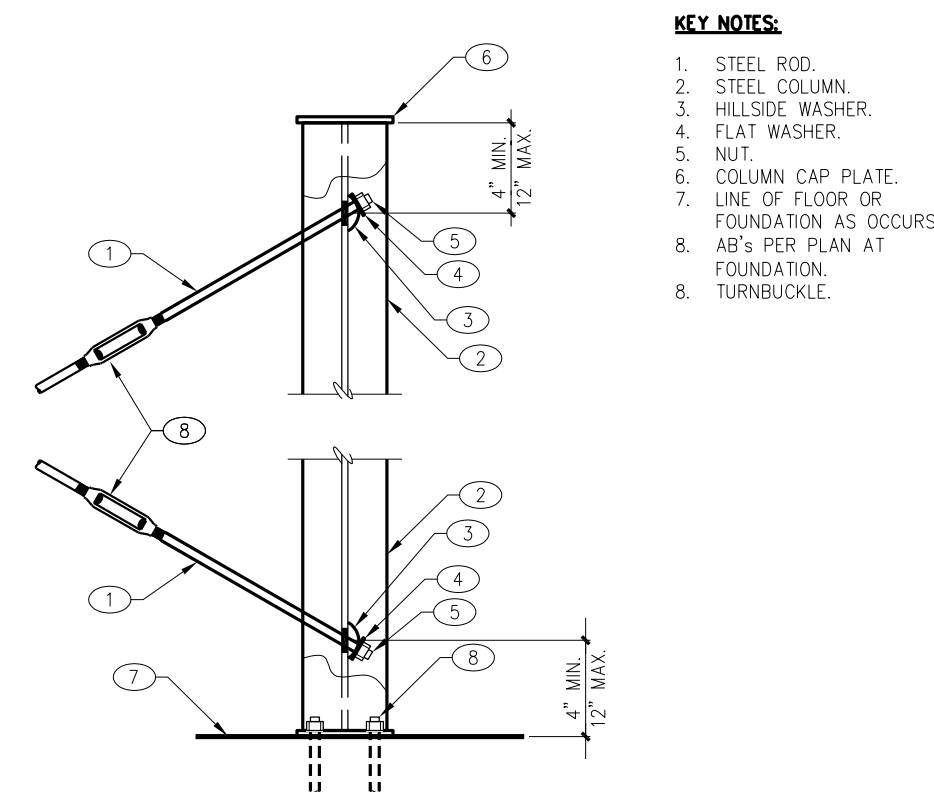
1678 Oaklawn Drive, Suite C
Prescott, Arizona 86305
Info@frost-structural.com

phone: 928.776.4757
fax: 928.776.4931

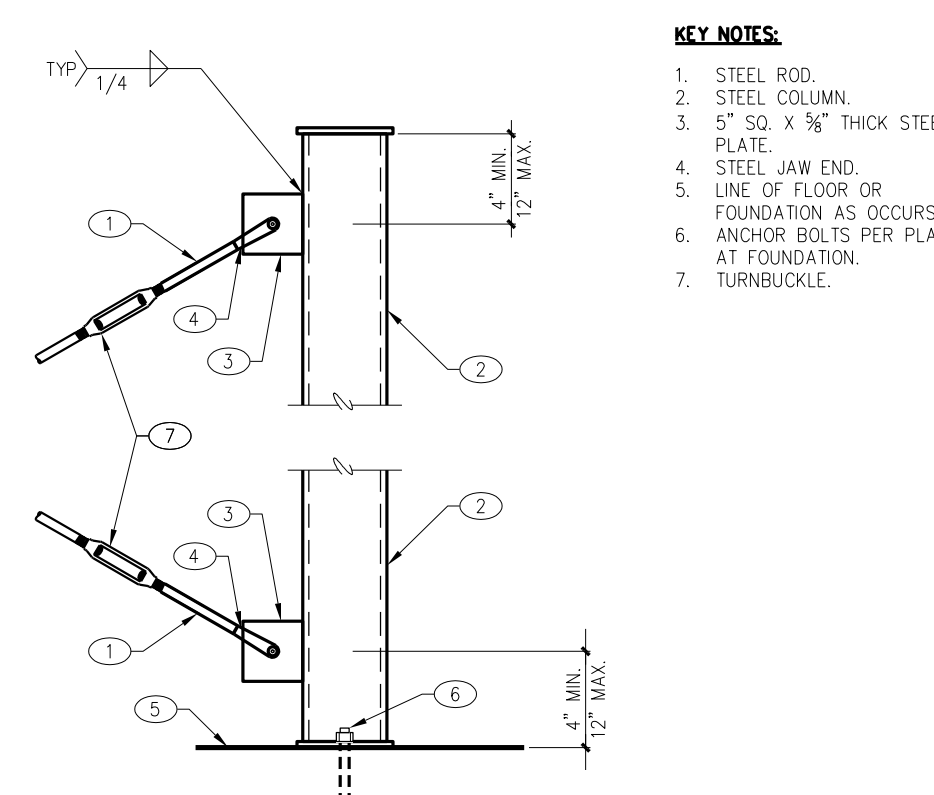
- KEY NOTES:**
1. STEEL STAIR BEAM.
 2. CONCRETE TOPPING OVER 12 GAUGE STEEL PAN.
 3. ANGLE 18"X18"X $\frac{3}{4}$ "-TYPICAL.
 4. WELD EACH END OF EACH ANGLE-TYPICAL.



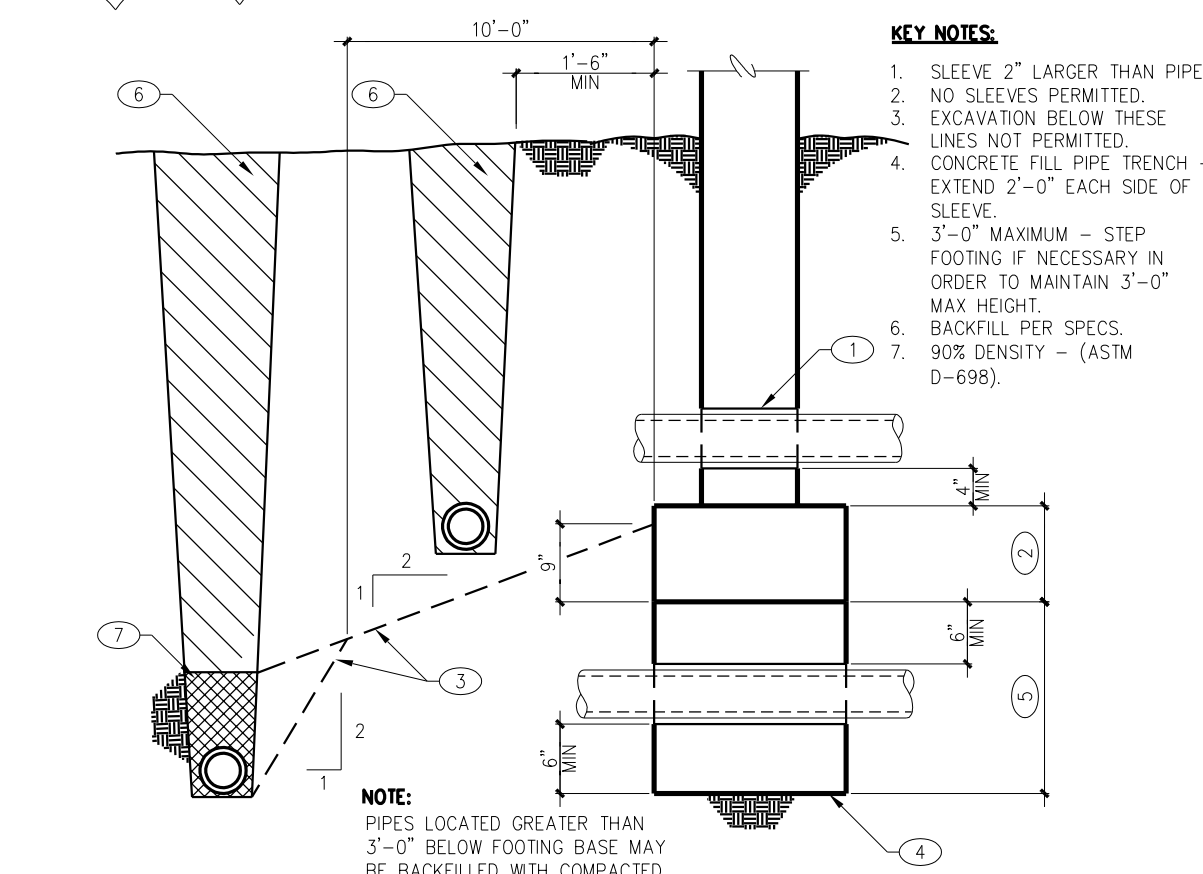
T9 TYPICAL STEEL PANS TO STEEL BEAM
STR0115 NO SCALE



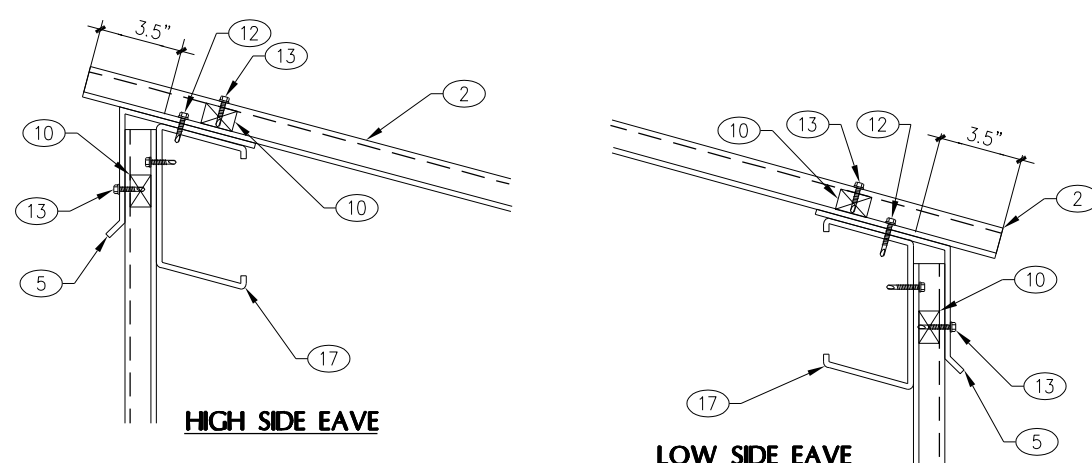
T10 TYPICAL X-BRACING AT STEEL COLUMN (W-SHAPE)
SD06 NO SCALE



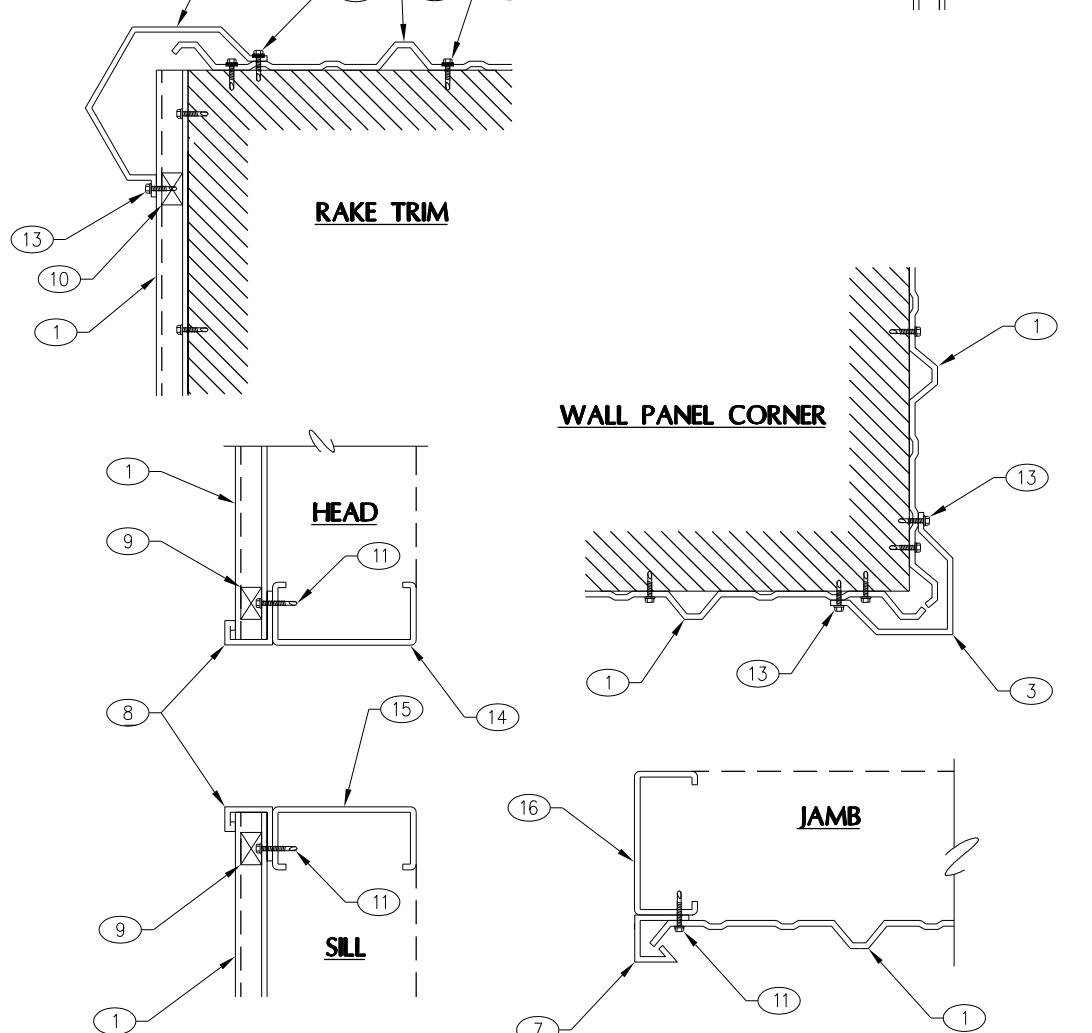
T11 TYPICAL X-BRACING AT STEEL COLUMN (HSS-SHAPE)
NO SCALE



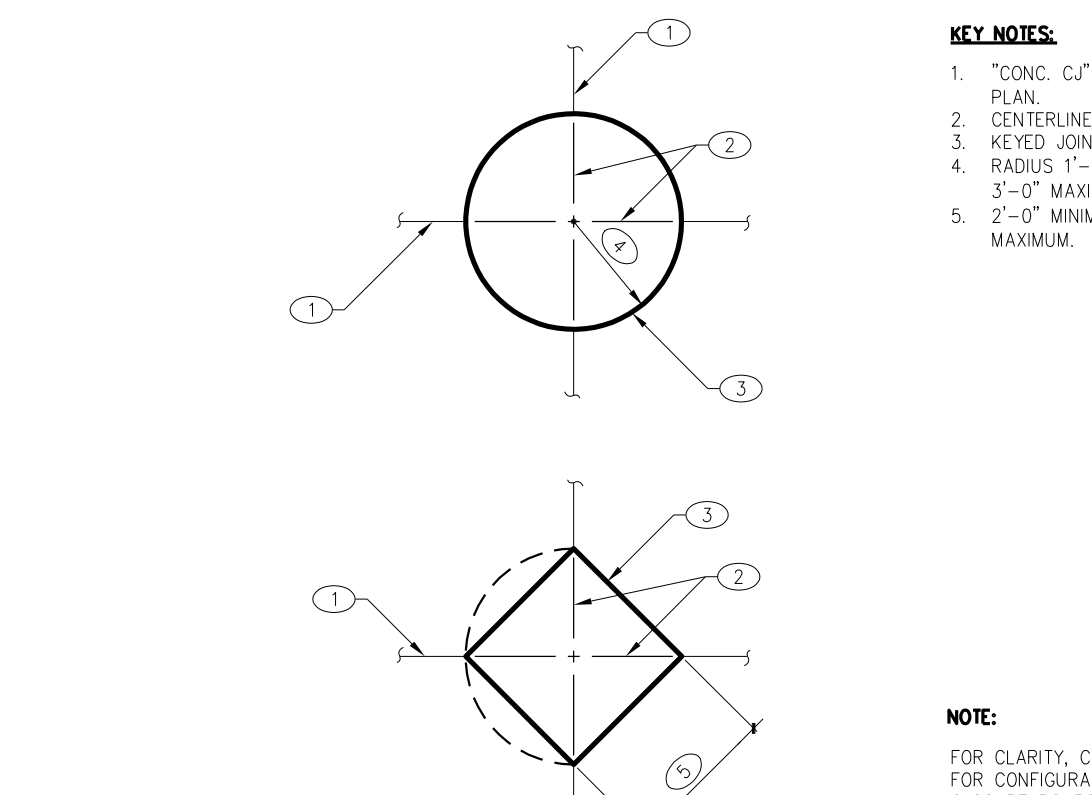
T12 PIPES AND TRENCHES AT CONCRETE FOOTING
02-F03 NO SCALE



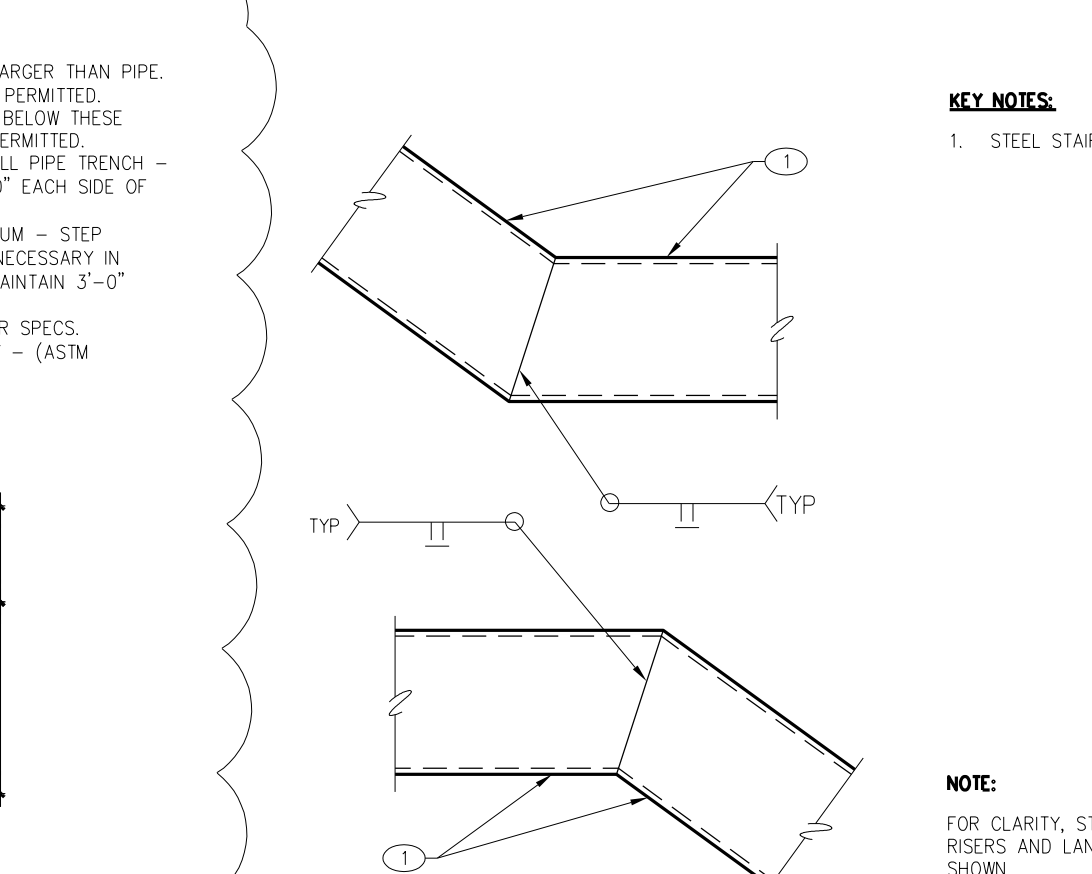
T5 TYPICAL "PBR" PANEL ROOFING/SIDING ATTACHMENT
SD05 NO SCALE



T6 TYPICAL METAL ROOFING/SIDING TRIM ATTACHMENT
SD06 NO SCALE



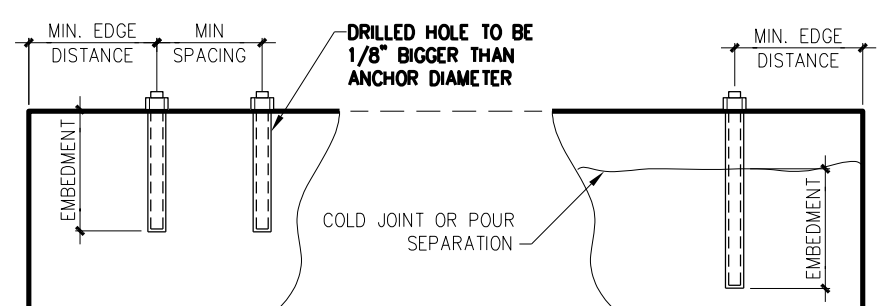
T7 PLAN - COLUMN CLOSURE POUR AT CONCRETE SLAB
03-CS0601 NO SCALE



T8 TYPICAL SPLICE AT STEEL STAIR BEAM
STR0102 NO SCALE

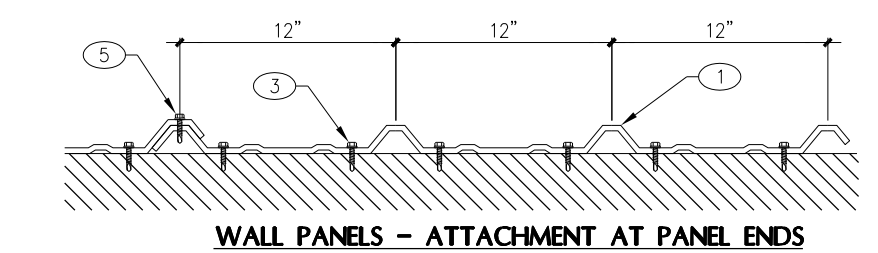
ALL THREAD SIZE	REBAR SIZE	SPACING OR EDGE DISTANCE	EMBEDMENT DEPTH	SPACING OR EDGE DISTANCE	EMBEDMENT DEPTH
3/8"	#3	2" TO 6"	8"	6" MIN.	6"
1/2"	#4	2" TO 6"	11"	6" MIN.	6"
5/8"	#5	2" TO 7.5"	12"	7.5" MIN.	7"
3/4"	#6	2" TO 9"	14"	9" MIN.	9"
7/8"	#7	3" TO 10.5"	16"	10.5" MIN.	11"
1"	#8	3" TO 12"	20"	12" MIN.	14"

1. CONCRETE: USE MILT HIT-RE 500-SD ADHESIVE (ESR-2322) OR SIMPSON SET-XP (ESR-2508). MASONRY: USE SIMPSON "SET" ADHESIVE (ESR-1772).
2. INSTALL ALL SYSTEMS ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
3. DO NOT PLACE ALL-THREAD ROD WITHIN MINIMUM EDGE DISTANCE TO FREE EDGE OF CONCRETE OR ADJACENT BOLTS.

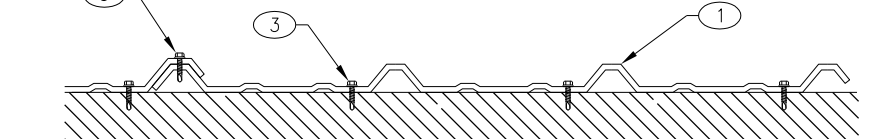


T4 TYPICAL EPOXY ANCHOR INSTALLATION
S0102 NO SCALE

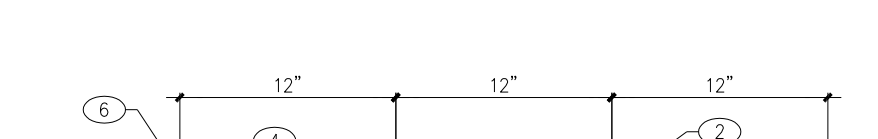
- KEY NOTES:**
1. METAL WALL PANEL PER ARCHITECTURAL DRAWINGS.
 2. ROOF PANELS PER ARCHITECTURAL DRAWINGS.
 3. #12 X 1.25" SELF-TAPPING TEK'S SCREWS AT 12" O.C.
 4. #12 X 1.25" SELF-TAPPING TEK'S SCREWS WITH NEOPRENE WASHERS AT 12" O.C.
 5. WALL PANEL STITCH SCREW #14 X 3/8" SELF-TAPPING TEK'S SCREWS AT 18" O.C.
 6. ROOF PANEL STITCH SCREW #14 X 3/8" SELF-TAPPING TEK'S SCREWS AT 18" O.C. WITH CONTINUOUS MASTIC TAPE.



T2 PLAN - CORNER REINFORCING IN CONCRETE FOOTINGS AND/OR CONCRETE STEM WALLS
F02 NO SCALE



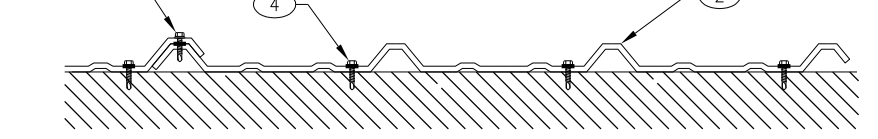
T3 TYPICAL ANCHOR BOLT, AND EXPANSION BOLT SCHEDULE
S0101 NO SCALE



T4 TYPICAL EPOXY ANCHOR INSTALLATION
S0102 NO SCALE



T5 TYPICAL "PBR" PANEL ROOFING/SIDING ATTACHMENT
SD05 NO SCALE



T6 TYPICAL METAL ROOFING/SIDING TRIM ATTACHMENT
SD06 NO SCALE



T7 PLAN - COLUMN CLOSURE POUR AT CONCRETE SLAB
03-CS0601 NO SCALE



T8 TYPICAL SPLICE AT STEEL STAIR BEAM
STR0102 NO SCALE



T9 TYPICAL STEEL PANS TO STEEL BEAM
STR0115 NO SCALE



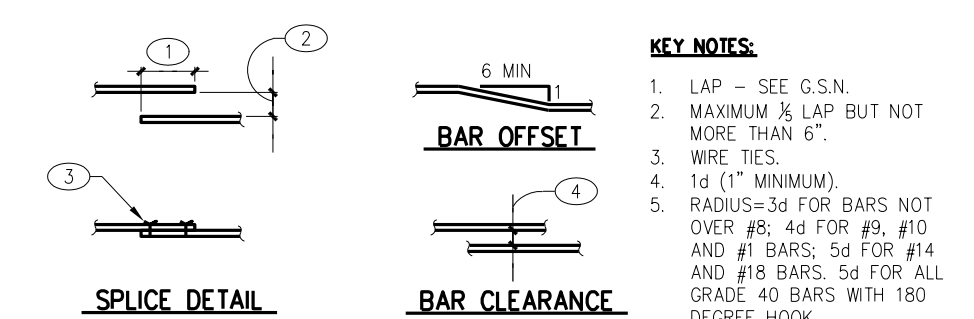
T10 TYPICAL X-BRACING AT STEEL COLUMN (W-SHAPE)
SD06 NO SCALE



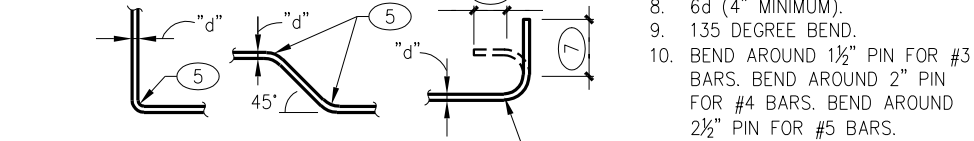
T11 TYPICAL X-BRACING AT STEEL COLUMN (HSS-SHAPE)
NO SCALE



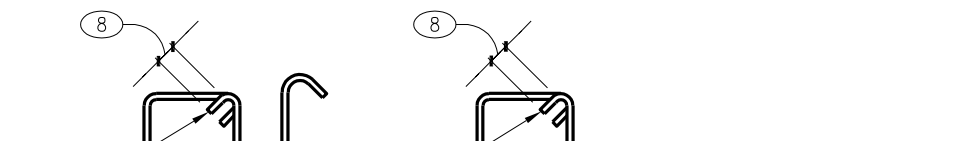
T12 PIPES AND TRENCHES AT CONCRETE FOOTING
02-F03 NO SCALE



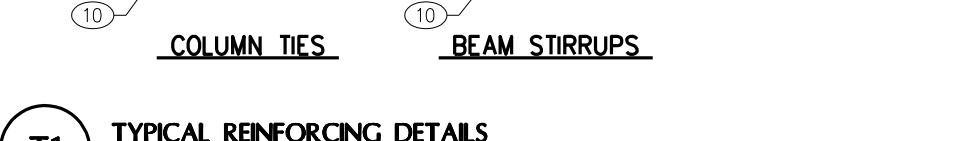
T1 TYPICAL REINFORCING DETAILS
C01 NO SCALE



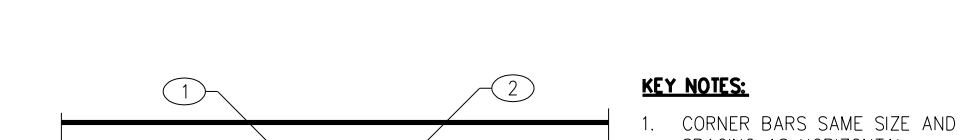
T2 PLAN - CORNER REINFORCING IN CONCRETE FOOTINGS AND/OR CONCRETE STEM WALLS
F02 NO SCALE



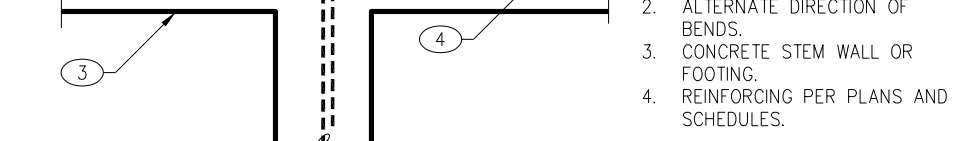
T3 TYPICAL ANCHOR BOLT, AND EXPANSION BOLT SCHEDULE
S0101 NO SCALE



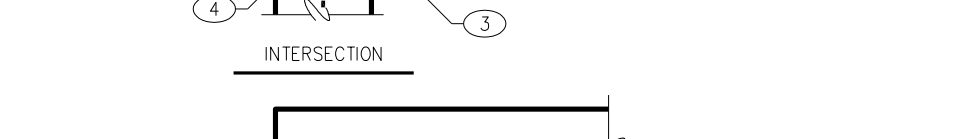
T4 TYPICAL EPOXY ANCHOR INSTALLATION
S0102 NO SCALE



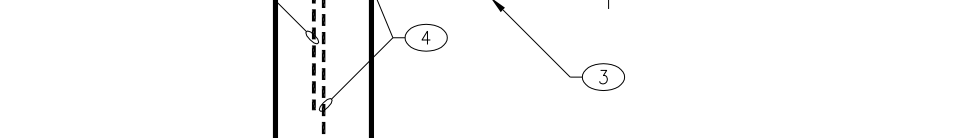
T5 TYPICAL "PBR" PANEL ROOFING/SIDING ATTACHMENT
SD05 NO SCALE



T6 TYPICAL METAL ROOFING/SIDING TRIM ATTACHMENT
SD06 NO SCALE



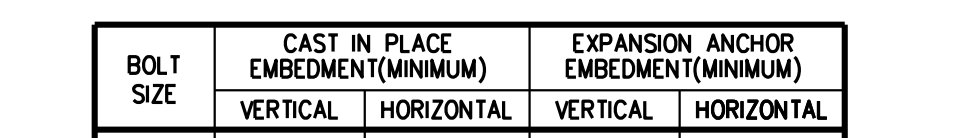
T7 PLAN - COLUMN CLOSURE POUR AT CONCRETE SLAB
03-CS0601 NO SCALE



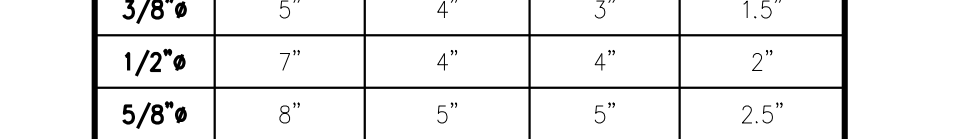
T8 TYPICAL SPLICE AT STEEL STAIR BEAM
STR0102 NO SCALE



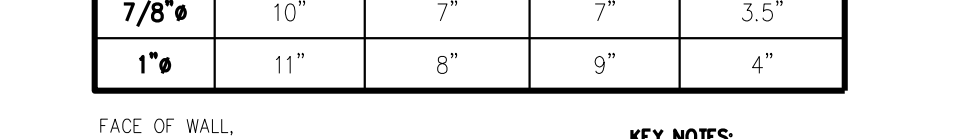
T9 TYPICAL STEEL PANS TO STEEL BEAM
STR0115 NO SCALE



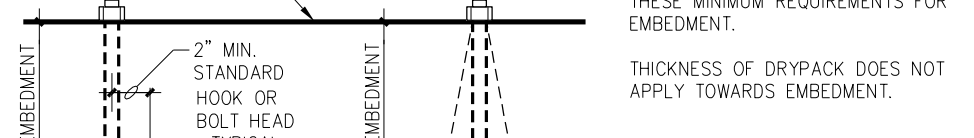
T10 TYPICAL X-BRACING AT STEEL COLUMN (W-SHAPE)
SD06 NO SCALE



T11 TYPICAL X-BRACING AT STEEL COLUMN (HSS-SHAPE)
NO SCALE



T12 PIPES AND TRENCHES AT CONCRETE FOOTING
02-F03 NO SCALE



T13 TYPICAL ANCHOR BOLT, AND EXPANSION BOLT SCHEDULE
S0101 NO SCALE



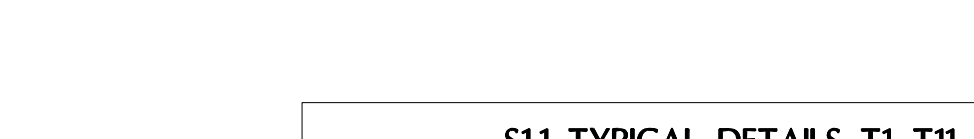
T14 TYPICAL EPOXY ANCHOR INSTALLATION
S0102 NO SCALE



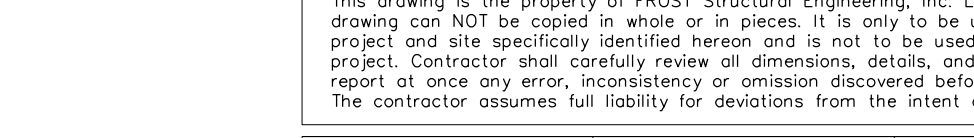
T15 TYPICAL "PBR" PANEL ROOFING/SIDING ATTACHMENT
SD05 NO SCALE



T16 TYPICAL METAL ROOFING/SIDING TRIM ATTACHMENT
SD06 NO SCALE



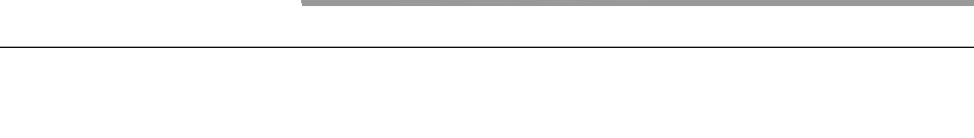
T17 PLAN - COLUMN CLOSURE POUR AT CONCRETE SLAB
03-CS0601 NO SCALE



T18 TYPICAL SPLICE AT STEEL STAIR BEAM
STR0102 NO SCALE



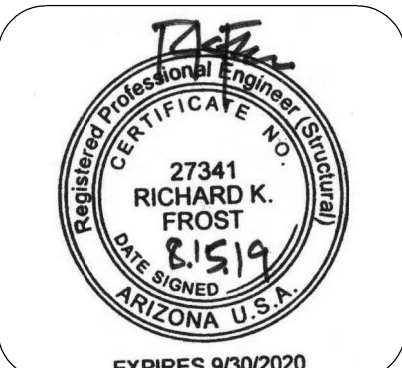
T19 TYPICAL STEEL PANS TO STEEL BEAM
STR0115 NO SCALE



T20 TYPICAL X-BRACING AT STEEL COLUMN (W-SHAPE)
SD06 NO SCALE

REVISIONS	BY
△ PLAN CHECK COMMENTS	
DATED: 8.05.2019	

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P.O. Box 11593
Prescott, AZ 86304

ARCHITECTURE & PLANNING

DRAWING: TYPICAL DETAILS

PROJECT: Yavapai Mechanical Building Addition
5880 N. Fulton Drive
Prescott Valley, AZ. 86314

PROJECT: 103-33-297B

DRAWN BY	GU
CHECKED BY	AGK
DATE	8/12/19
SCALE	AS NOTED
JOB NO.	2019-0064
SHEET	

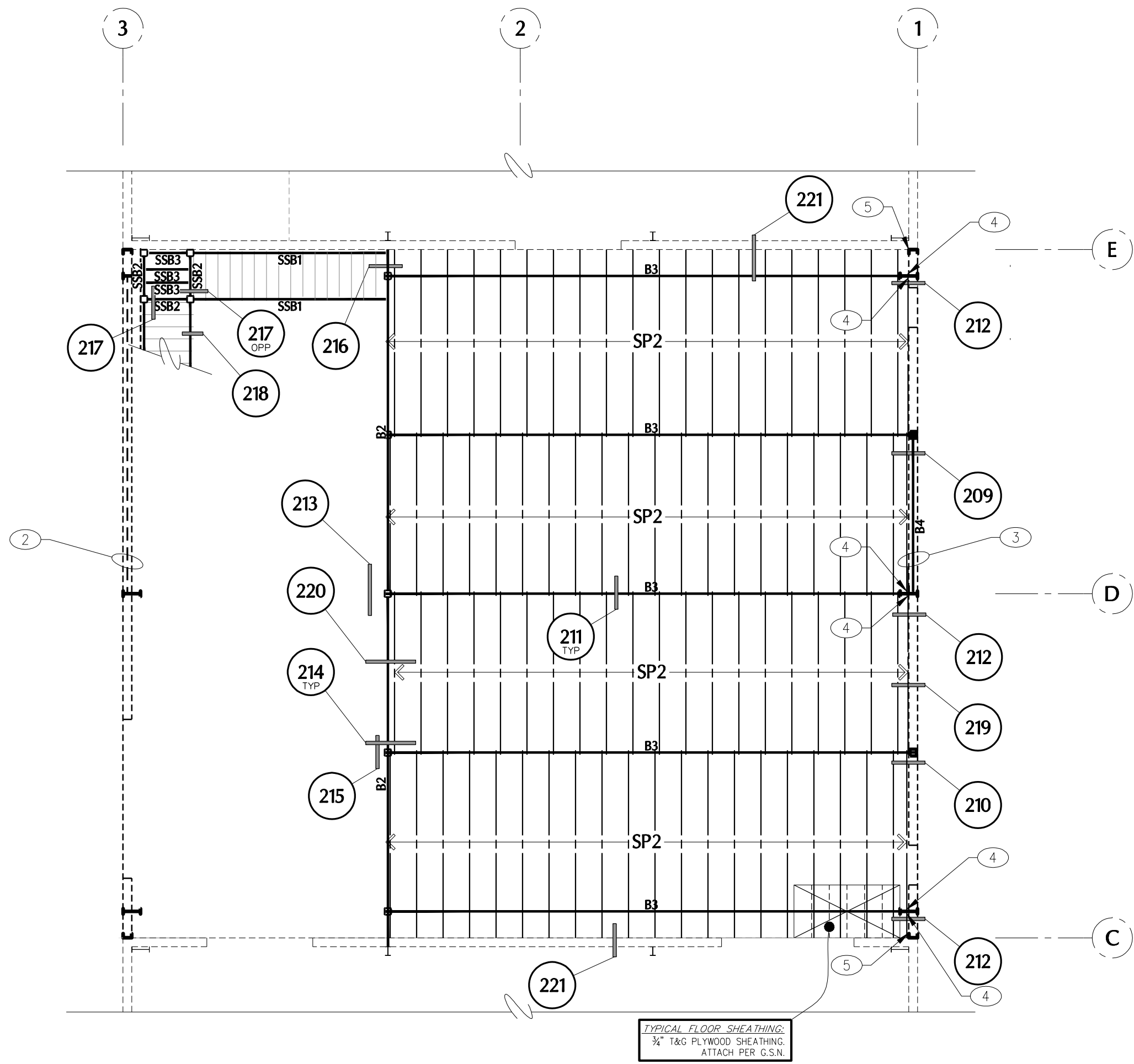
S1.1

S1.1 TYPICAL DETAILS T1-T11

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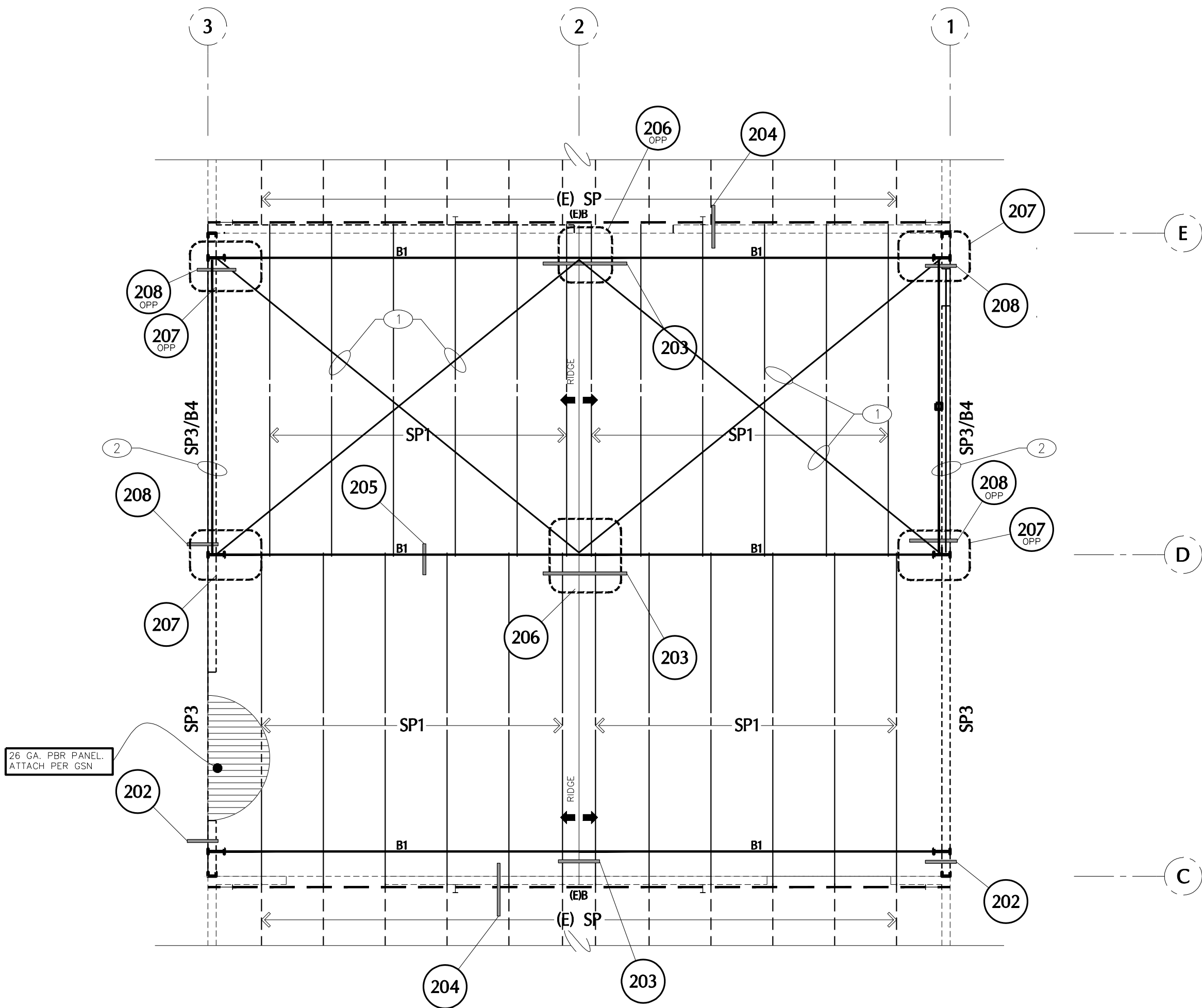
JOB NO.: 2019-0064 PROJECT MANAGER: ANDY K CAD OPERATOR: GU

FROST STRUCTURAL ENGINEERING
1678 Oaklawn Drive, Suite C
Prescott, Arizona 86305
phone: 928.776.4757
fax: 928.776.4931
info@frost-structural.com



FLOOR FRAMING PLAN

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



ROOF FRAMING PLAN

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

STEEL PURLIN (SP) SCHEDULE		
MARK	SIZE	REMARKS
SP1	10"x2.5"x14GA, '2' PURLIN AT 3'-0"	---
SP2	10"x2.5"x16 GA, 'C' PURLIN AT 2'-0" O.C.	---
SP3	10"x2.5"x14 GA, 'C' PURLIN	EAVE PURLIN

STEEL BEAM (B, SSB) SCHEDULE		
MARK	SIZE	REMARKS
B1	W24XB4	---
B2	W10X22	---
B3	W24XB4	---
B4	WBX24	FLAT
SSB1	MC12X10.6	---
SSB2	C8X11.5	---
SSB3	L3.5X3.5X¼	SPACE AT 16" O.C. MAX.

WALL SCHEDULE	
NOTE --SEE PLAN SCHEDULES, DETAILS AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.	
AS SEEN ON PLANS	INDICATES--
	STRUCTURAL WALL BELOW (BEARING WALL, SHEARWALL, OR EXTERIOR WALL)
	NON-STRUCTURAL WALL BELOW.
ROOF FRAMING PLAN NOTES	
1. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.	
2. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.	
3. B1, B2, ETC. -- AS SHOWN ON PLAN INDICATES A BEAM. SEE BEAM SCHEDULE FOR ADDITIONAL INFORMATION.	
4. SP1, SP2, ETC. -- AS SHOWN ON PLAN INDICATES A STEEL PURLIN. SEE STEEL PURLIN SCHEDULE FOR ADDITIONAL INFORMATION.	
5. SSB1, SSB2, ETC. -- AS SHOWN ON PLAN INDICATES A STEEL STAIR BEAM. SEE BEAM SCHEDULE FOR MORE INFORMATION..	
6. (E)B -- AS SHOWN ON PLAN. INDICATES AN EXISTING BEAM.	
7. (E)SP -- AS SHOWN ON PLAN INDICATES AN EXISTING STEEL PURLIN.	
8. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.	

PLAN KEYNOTES
1. 1/2"Ø STEEL ROD HORIZONTAL X-BRACE.
2. 1/2"Ø STEEL ROD VERTICAL X-BRACE, SEE WALL ELEVATIONS ON S3.1.
3. 7/8" DIA. STEEL ROD X-BRACE, SEE ELEVATIONS ON S3.1.
4. 8" SQ. X ¼" THICK SHEAR PLATE WELDED TO WEB OF STEEL COLUMN WITH ¼" FILLET WELD EACH SIDE AND (2)¾" DIA. A307 THRU BOLTS TO STEEL PURLIN.
5. (2)¾" DIAMETER A307 THRU BOLTS STEEL PURLIN WEB TO STEEL COLUMN FLANGE.

LOCATION OF DETAILS		
DETAILS	SHEET	DESCRIPTION
---	S1	GENERAL STRUCTURAL NOTES
T1-T11	S11	TYPICAL DETAILS
220-225	S31	STRUCTURAL ELEVATIONS
101-109	S4	FOUNDATION DETAILS
201-219	S5	FRAMING DETAILS
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JOB NO.: 2019-0064 PROJECT MANAGER: ANDY K. CAD OPERATOR: GU		
FROST STRUCTURAL ENGINEERING		
1678 Oaklawn Drive, Suite C Prescott, Arizona 86305 phone: 928.776.4757 fax: 928.776.4931 info@frost-structural.com		

REVISIONS	BY

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email: waka@cableone.net
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ARCHITECTURE & PLANNING

DRAWING: S3 FRAMING PLANS - S3 ROOF FRAMING PLAN

PROJECT: Yavapai Mechanical Building Addition
5860 N. Fulton Drive
Prescott Valley, AZ 86314

PROJECT: 103-39-297B

DRAWN BY
GU

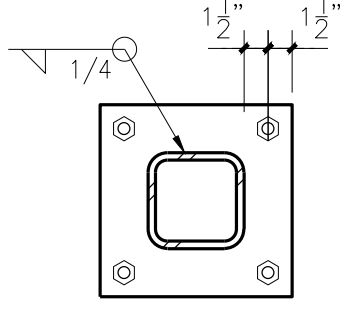
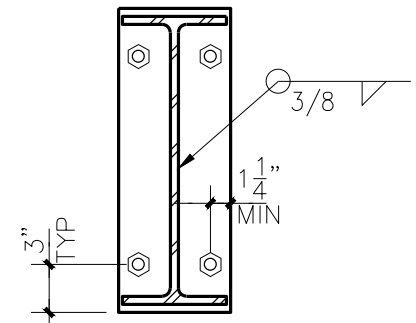
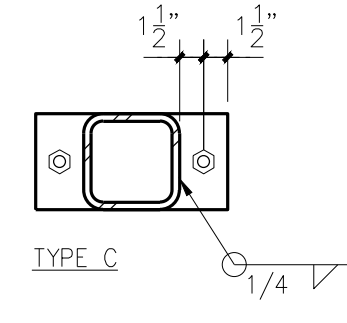
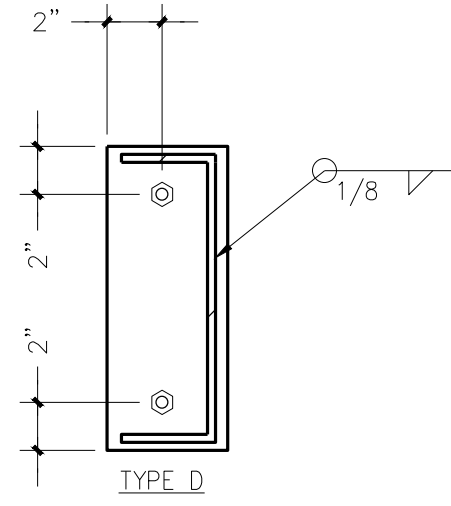
CHECKED BY
AGK

DATE
5/23/19

SCALE
AS NOTED

JOB NO.
2019-0064

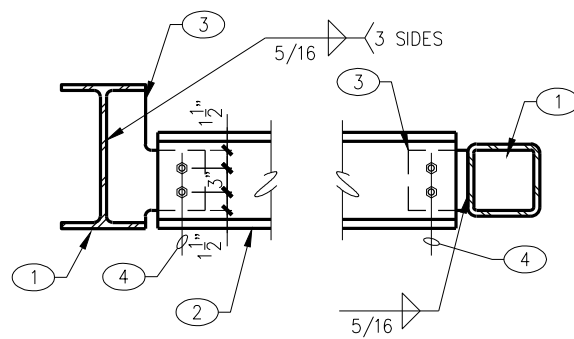
SHEET
S3

STEEL COLUMN (SC) SCHEDULE				
MARK	SIZE	BASE CONNECTION	BASE CONNECTION TYPE	REMARKS
C1	HSS4X4X $\frac{3}{16}$	10" SQ. X $\frac{3}{8}$ " THICK STEEL PLATE W/ (4) $\frac{3}{8}$ " ϕ X 4" EXPANSION ANCHORS	TYPE A	---
C2	HSS6X6X $\frac{1}{4}$	12" SQ X $\frac{3}{8}$ " THICK STEEL PLATE W/ (4) $\frac{3}{4}$ " ϕ X 10" J-BOLTS	TYPE A	---
C3	W14X61	15" x 11" x $\frac{3}{8}$ " THICK STEEL PLATE W/ (4) $\frac{3}{4}$ " ϕ X 12" LONG ASTM F 1554 GR36 HEADED ANCHORS	TYPE B	SEE ANCHOR BOLT HAIRPIN SCHEDULE
C4	HSS 6X6X $\frac{1}{4}$	12" X 6.5" X $\frac{3}{8}$ " THICK STEEL PLATE W/ (2) $\frac{3}{4}$ " ϕ X 10" J-BOLTS.	TYPE C	---
C5	8"X3.5"X14 GA. 'C' COLUMN	8.5" X 4" X $\frac{3}{4}$ " THICK STEEL PLATE W/ (2) $\frac{3}{8}$ " DIAMETER X 6" J-BOLT ANCHORS OR (2) $\frac{3}{8}$ " DIAMETER X 6" EXPANSION ANCHORS	TYPE D	---
<div><div><p>TYPE A</p></div><div><p>TYPE B</p></div><div><p>TYPE C</p></div><div><p>TYPE D</p></div></div>				

WIND GIRT (G) SCHEDULE	
MARK	SIZE
G1	8"X3.5"X14 GA. 'Z'
G2	8" X 3.5" X 14 GA. 'C'

STEEL BEAM (B, SSB) SCHEDULE		
MARK	SIZE	REMARKS
B1	W24X84	---
B2	W10X22	---
B3	W24X84	---
B4	W8X24	FLAT
SSB1	MC12X10.6	---
SSB2	C8X11.5	---
SSB3	L3.5X3.5X $\frac{1}{4}$	SPACE AT 16" O.C. MAX.

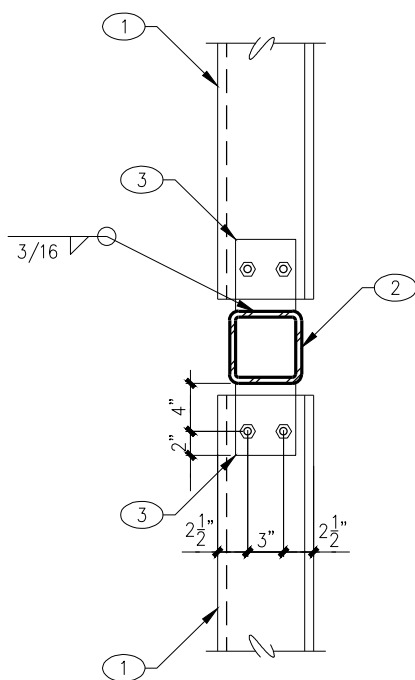
STEEL PURLIN (SP) SCHEDULE		
MARK	SIZE	REMARKS
SP1	10"X2.5"X14GA. 'Z' PURLIN AT 3'-0"	---
SP2	10"X2.5"X16 GA. 'C' PURLIN AT 2'-0" O.C.	---
SP3	10"X2.5"X14 GA. 'C' PURLIN	EAVE PURLIN



KEY NOTES:

- STEEL COLUMN.
- STEEL BEAM.
- $\frac{3}{8}$ " THICK STEEL PLATE.
- FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL 201 "BOLT SCHEDULE FOR STEEL CONNECTIONS".

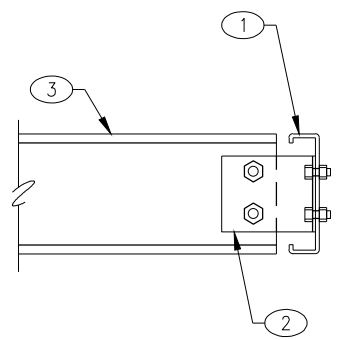
225 PLAN - STEEL BEAM AT STEEL COLUMN
NO SCALE



KEY NOTES:

- STEEL WIND GIRT.
- HSS STEEL COLUMN.
- $\frac{3}{8}$ " THICK STEEL PLATE W/ (2) $\frac{1}{2}$ " ϕ A307 BOLTS.

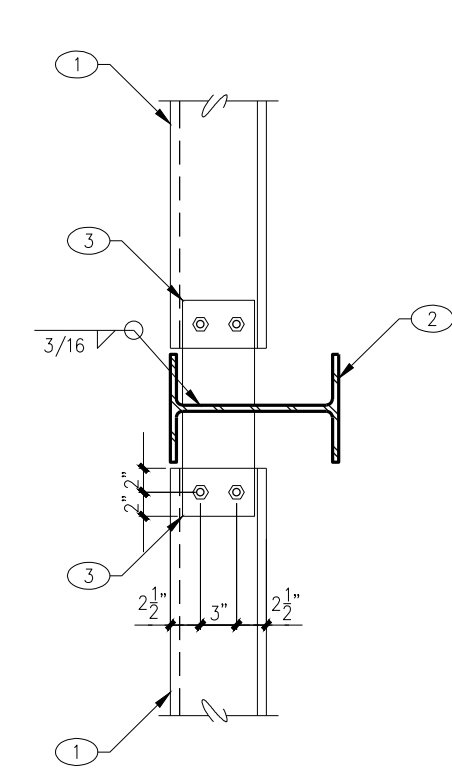
224 PLAN - STEEL WIND GIRT AT STEEL COLUMN
NO SCALE



KEY NOTES:

- STEEL "C" COLUMN PER PLAN.
- STEEL BENT PLATE (6" LONG L6X6X $\frac{3}{8}$) W/ (2) $\frac{1}{2}$ " ϕ BOLTS TO WIND GIRT AND (2) $\frac{1}{2}$ " ϕ BOLTS TO "C" COLUMN.
- STEEL WIND GIRT PER PLAN.

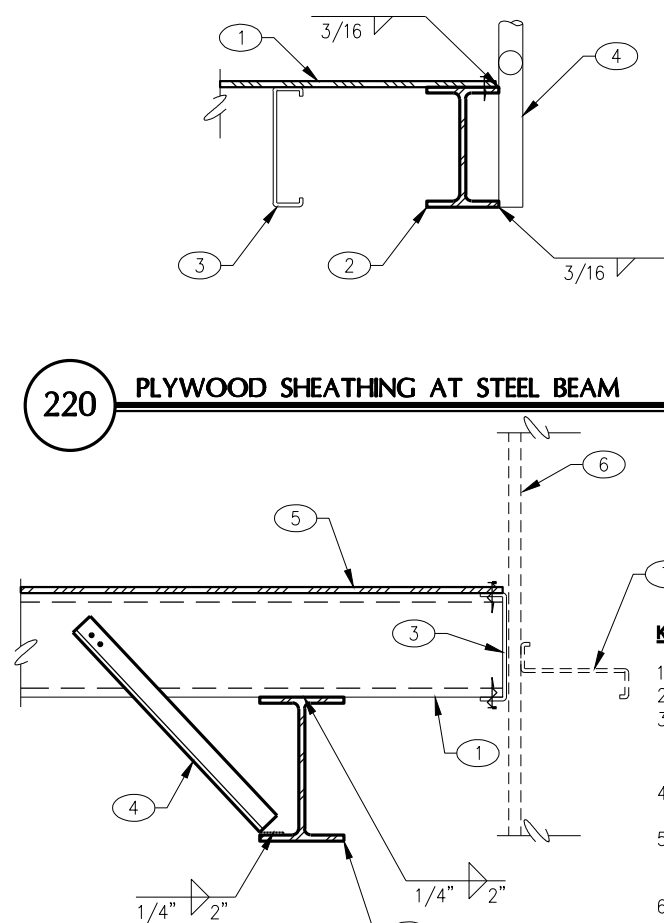
223 PLAN - STEEL WIND GIRT AT STEEL "C" COLUMN / JAMB
NO SCALE



KEY NOTES:

- STEEL WIND GIRT.
- STEEL COLUMN.
- $\frac{3}{8}$ " THICK STEEL PLATE W/ (2) $\frac{1}{2}$ " ϕ A307 BOLTS.

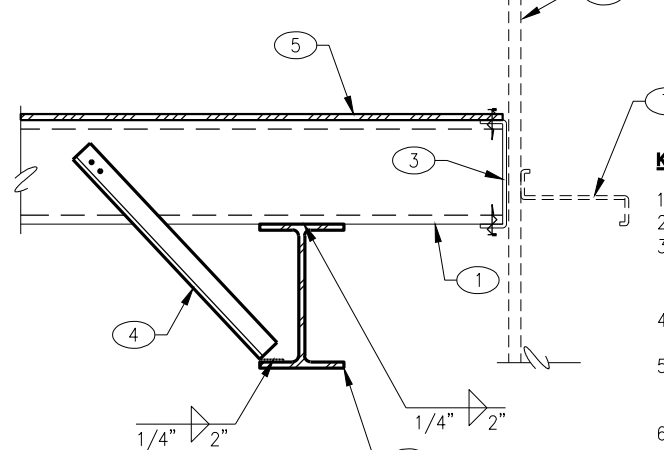
222 PLAN - STEEL WIND GIRT AT STEEL COLUMN
NO SCALE



KEY NOTES:

- PLYWOOD SHEATHING - ATTACH PER GENERAL STRUCTURAL NOTES.
- STEEL BEAM.
- STEEL FLOOR PURLIN.
- RAILING POST PER ARCHITECTURAL DRAWINGS.

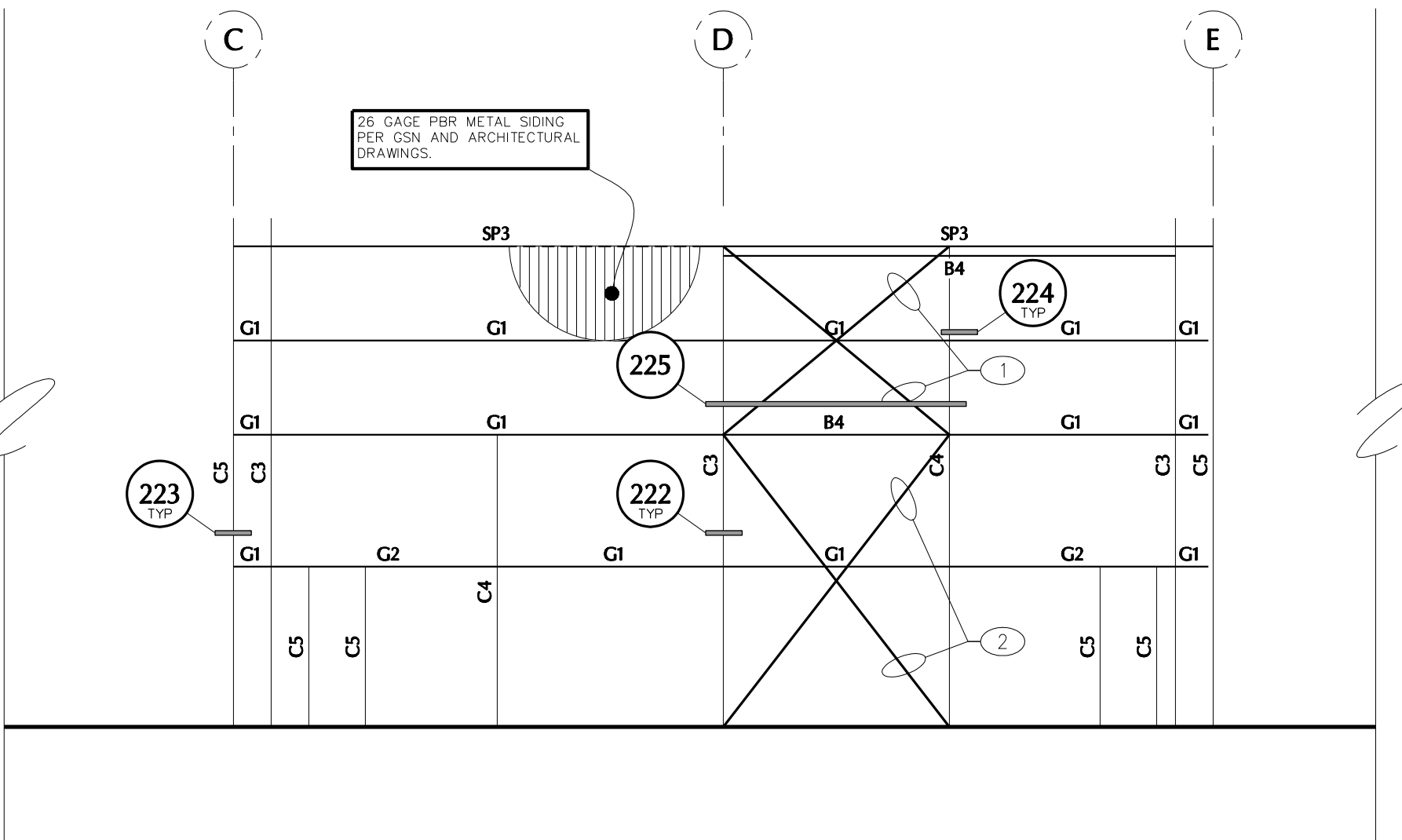
220 PLYWOOD SHEATHING AT STEEL BEAM
NO SCALE



KEY NOTES:

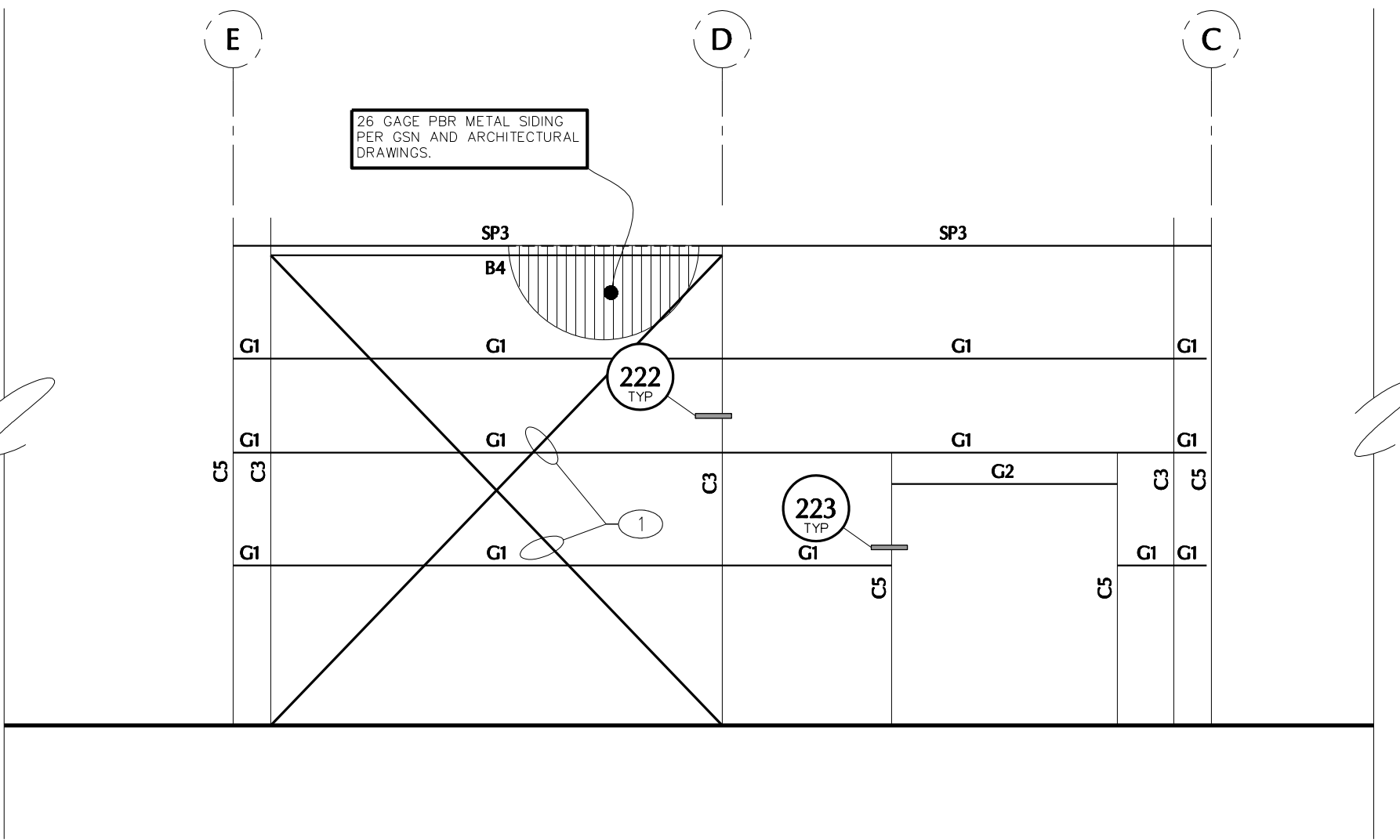
- STEEL FLOOR PURLINS.
- STEEL BEAM.
- CONTINUOUS 16 GA. 'C' WITH (2) #10 TEKs TO EACH PURLIN.
- STEEL BRACE L2X2X $\frac{1}{2}$ WITH (2) 5/8" BOLTS.
- PLYWOOD SHEATHING - ATTACHED PER GENERAL STRUCTURAL NOTES.
- EXISTING METAL WALL PANEL.
- EXISTING STEEL WIND GIRT.

221 STEEL FLOOR PURLIN AT STEEL BEAM
NO SCALE



EAST - STRUCTURAL ELEVATION

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



WEST - STRUCTURAL ELEVATION

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

STRUCTURAL ELEVATION KEYNOTES	
1	$\frac{3}{8}$ " ϕ STEEL ROD X-BRACE, SEE DETAILS T10 AND T11 FOR CONNECTIONS (TURNBUCKLE/JAW END(S) W/ 5000# MIN. WLL AS REQUIRED).
2	$\frac{3}{8}$ " ϕ STEEL ROD X-BRACE, SEE DETAILS T10 AND T11 FOR CONNECTIONS (TURNBUCKLE/JAW END(S) W/ 10,000# MIN. WLL AS REQUIRED).

LOCATION OF DETAILS		
DETAILS	SHEET	DESCRIPTION
---	S1	GENERAL STRUCTURAL NOTES
T1-T11	S11	TYPICAL DETAILS
220-225	S31	STRUCTURAL ELEVATIONS
101-109	S4	FOUNDATION DETAILS
201-219	S5	FRAMING DETAILS

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JOB NO.: 2019-0064	PROJECT MANAGER: ANDY K.	CAD OPERATOR: GU
FROST STRUCTURAL ENGINEERING		
1678 Oaklawn Drive, Suite C Prescott, Arizona 86305		phone: 928.776.4757 fax: 928.776.4931 info@frost-structural.com

REVISIONS	BY

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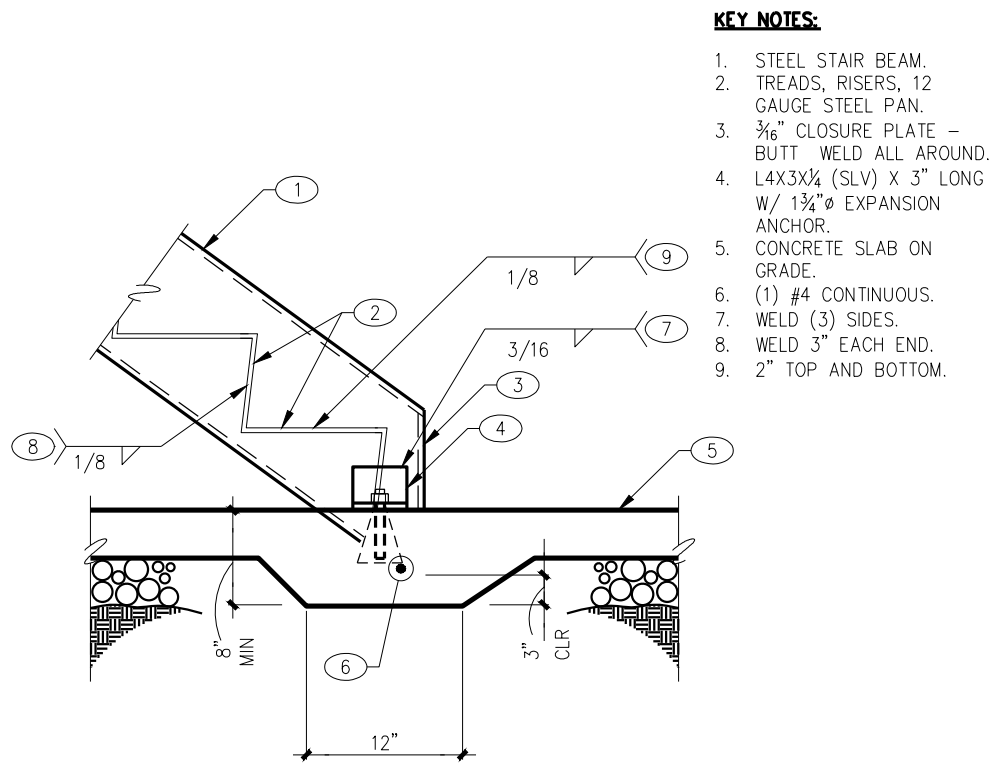
ARCHITECTURE & PLANNING

DRAWING: EXTERIOR STRUCTURAL ELEVATIONS

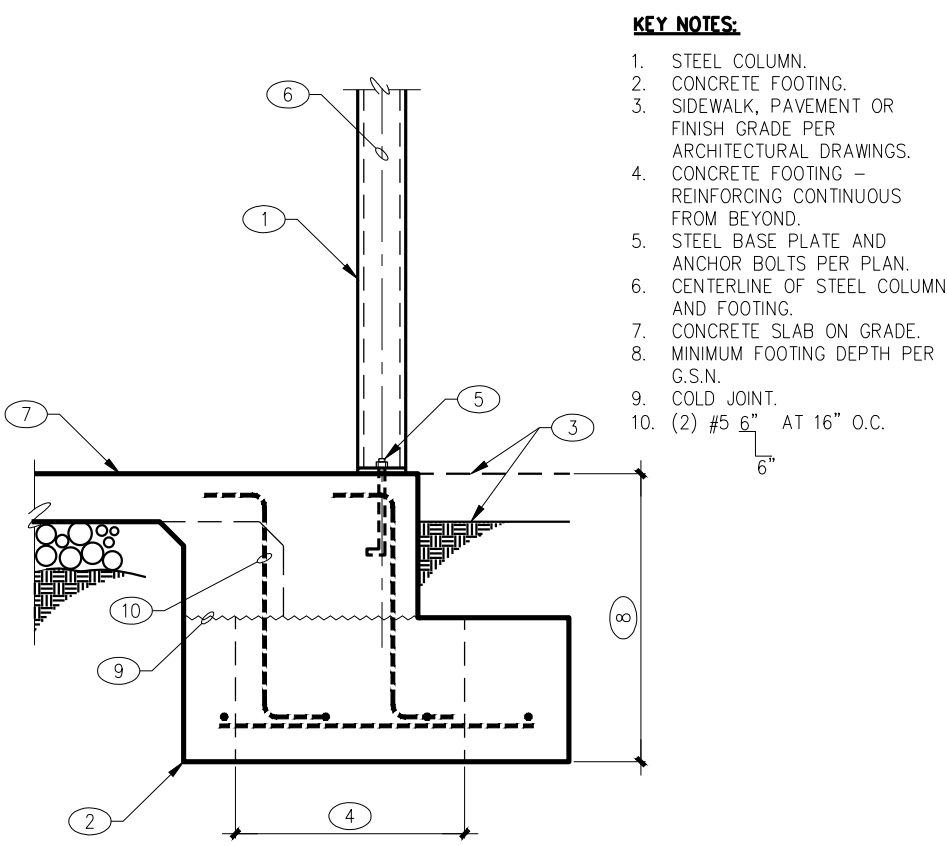
PROJECT: Yavapai Mechanical Building Addition
5860 N. Fulton Drive
Prescott Valley, AZ. 86314

DRAWN BY GU
CHECKED BY AGK
DATE 6/28/19
SCALE AS NOTED
JOB NO. 2019-0064
SHEET

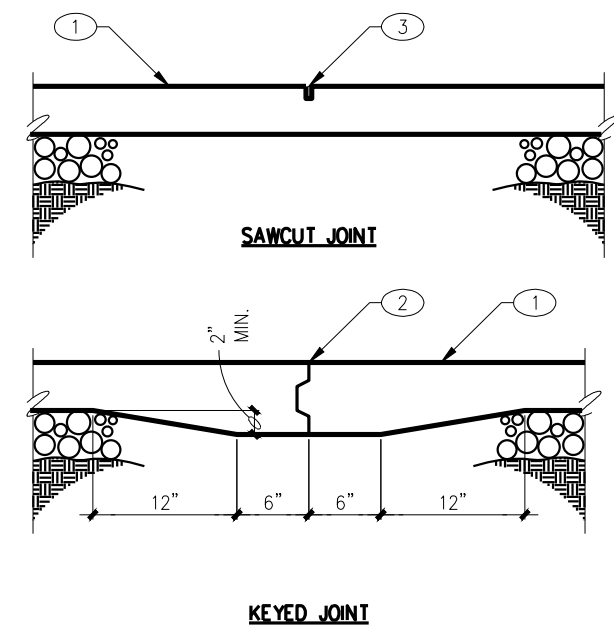
S3.1



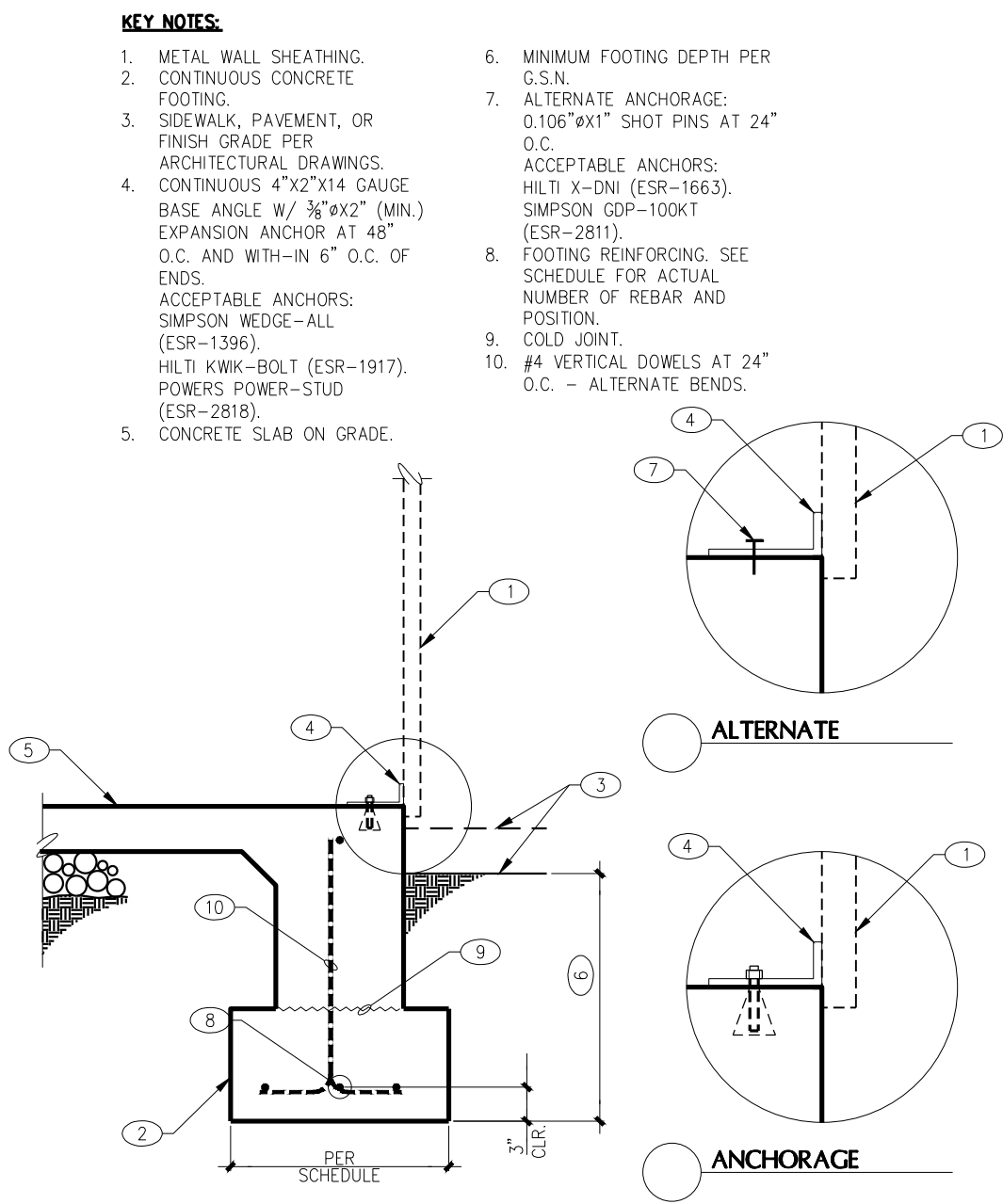
108 STEEL PAN STAIRS AT SLAB ON GRADE
STR01131 NO SCALE



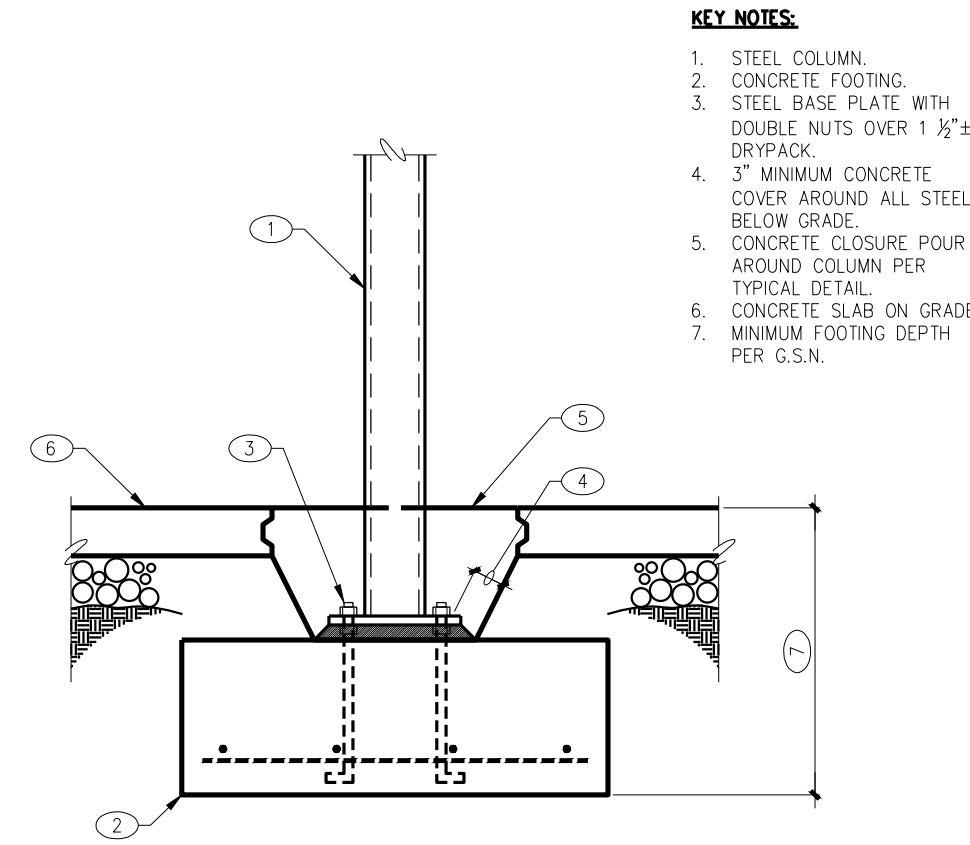
104 STEEL COLUMN AT CONCRETE FOOTING
03-SC-CF0401 NO SCALE



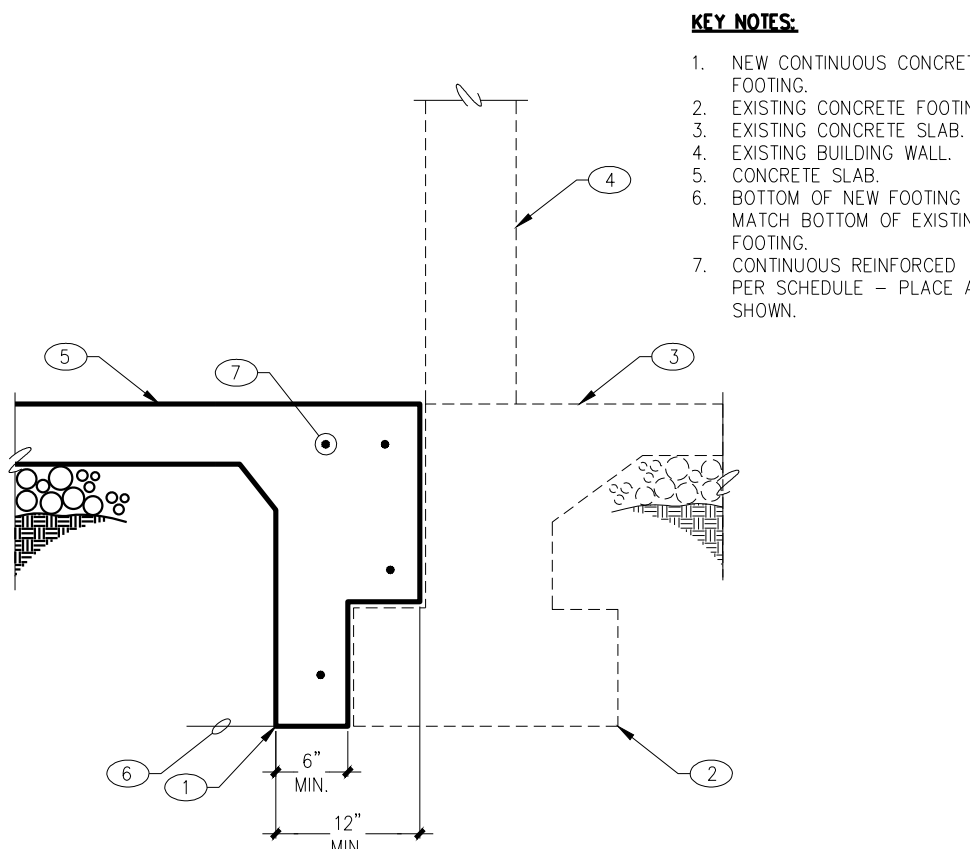
101 CONTROL JOINTS IN CONCRETE SLAB ON GRADE
03-CS0101 NO SCALE



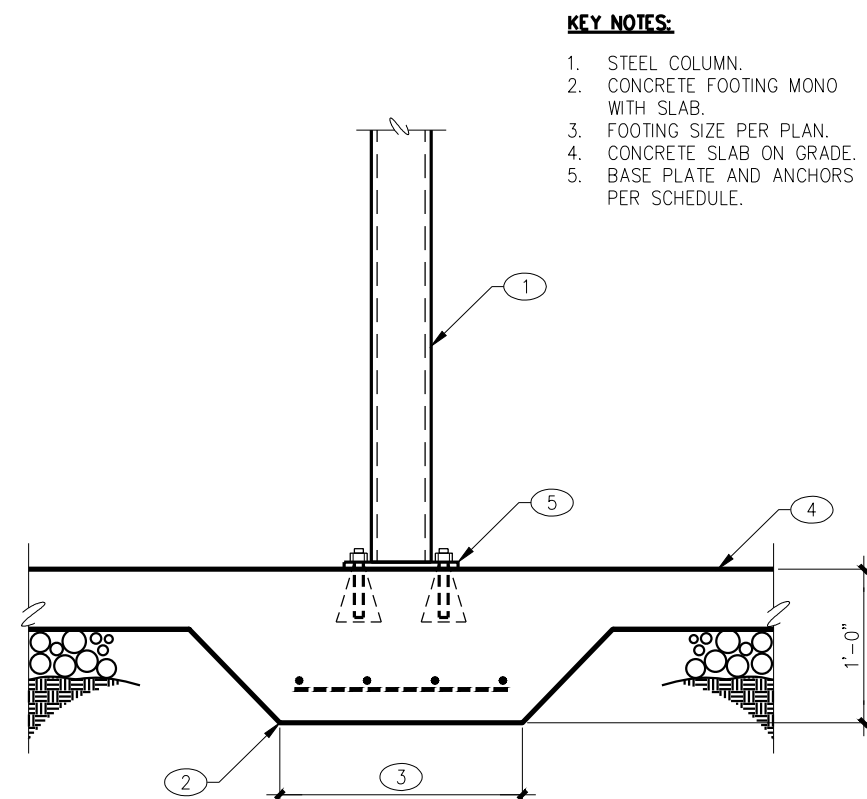
109 METAL BUILDING SIDING AT CONCRETE FOOTING
08-MB-CF0104 NO SCALE



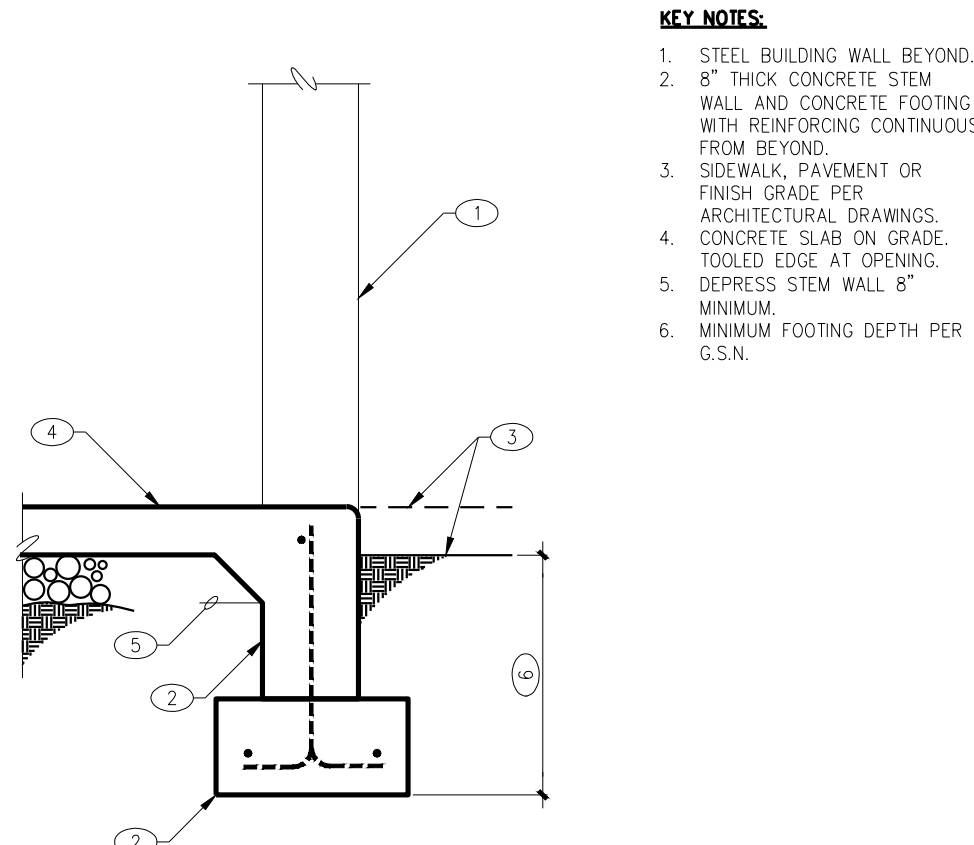
105 STEEL COLUMN AT CONCRETE FOOTING
SC-CF0101 NO SCALE



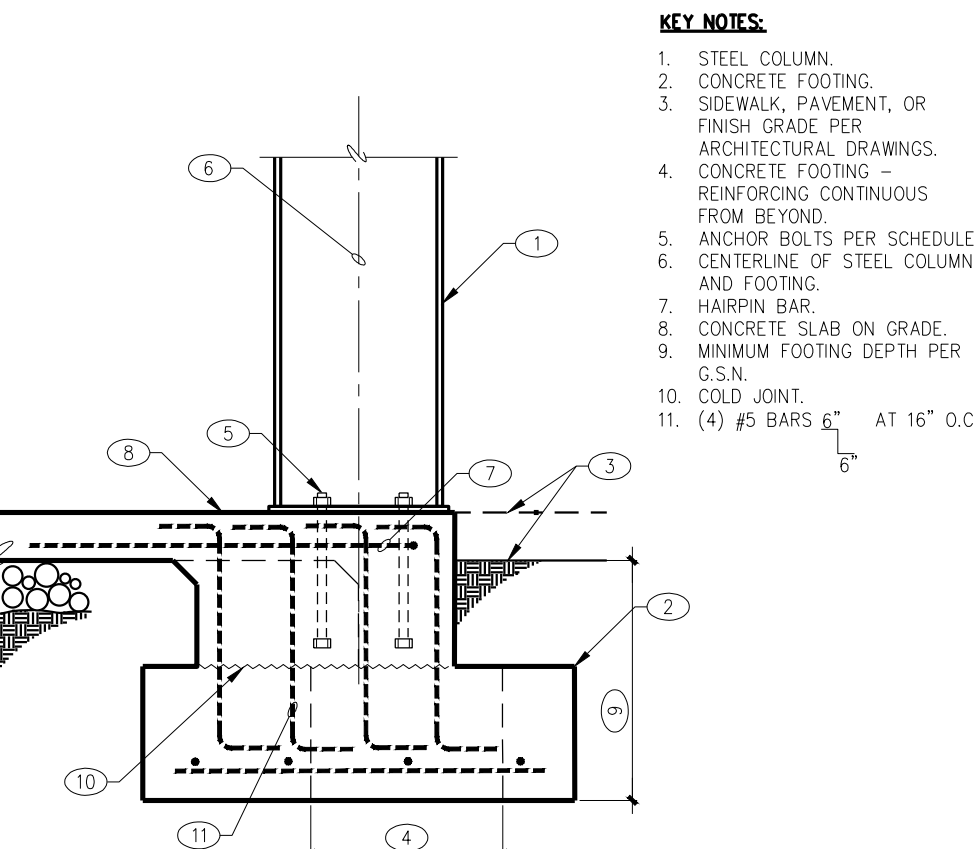
106 NEW CONCRETE FOOTING AT EXISTING CONCRETE FOOTING
NO SCALE



107 STEEL COLUMN AT CONCRETE FOOTING
03-SC-CF0402 NO SCALE



102 DOOR OPENING AT CONCRETE FOOTING
MW-CF1003 NO SCALE



103 STEEL COLUMN AT CONCRETE FOOTING
08-MB-CF0201 NO SCALE

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DRAWING: S4 FOUNDATION DETAILS - S4 FOUNDATION DETAILS 101-119

PROJECT: Yavapai Mechanical Building Addition
5860 N. Fulton Drive
Prescott Valley, AZ. 86314

PROJECT: 103-33-297B

DRAWN BY	GU
CHECKED BY	AGK
DATE	6/28/19
SCALE	AS NOTED
JOB NO.	2019-0064
SHEET	

S4

FOUNDATION DETAILS

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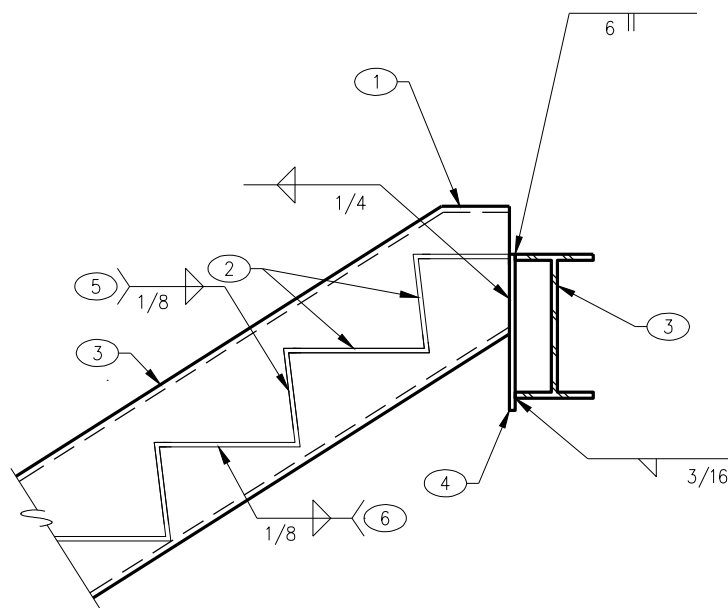
JOB NO.: 2019-0064 PROJECT MANAGER: ANDY K CAD OPERATOR: GU

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Prescott, Arizona 86305
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KEY NOTES:

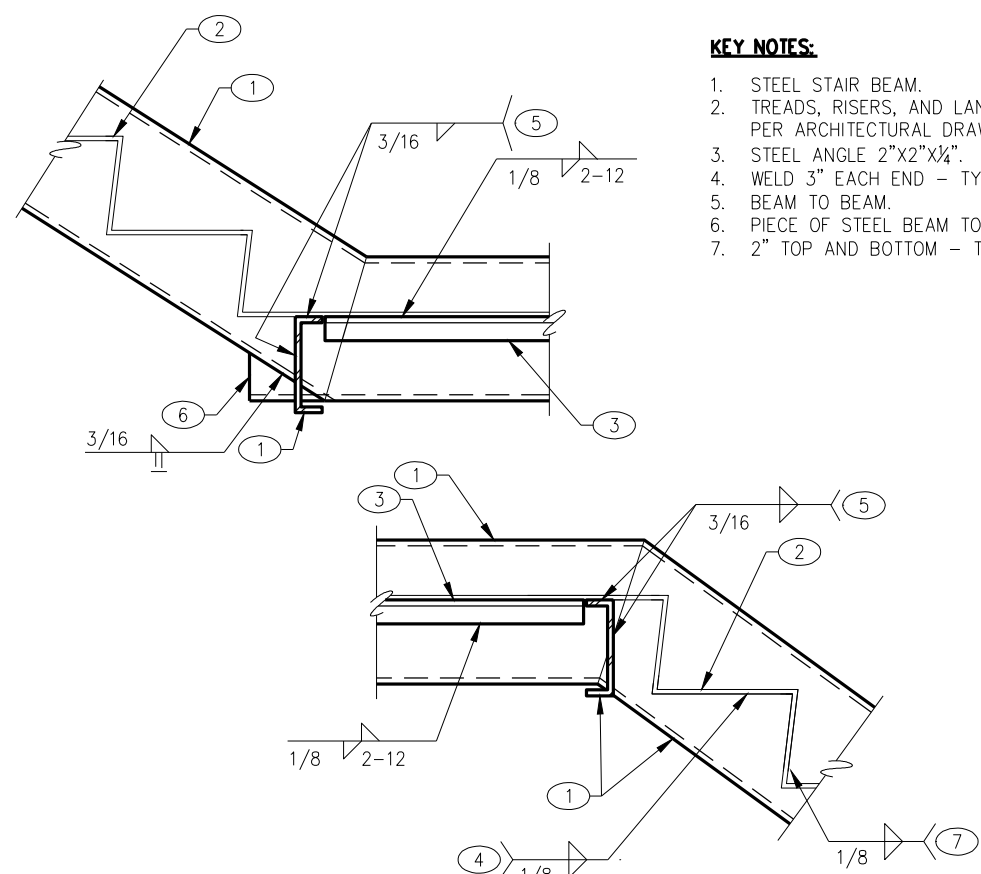
1. $\frac{3}{4}$ " END PLATES - BUTT WELD ALL AROUND.
2. FOR TREADS AND RISERS, SEE ARCHITECTURAL DRAWINGS.
3. STEEL BEAM.
4. PLATE $\frac{3}{4}$ " X 6".
5. 2" TOP AND BOTTOM - TYPICAL.
6. WELD 3" EACH END - TYPICAL.



216 STEEL STAIR BEAM AT STEEL BEAM
STR0104 NO SCALE

KEY NOTES:

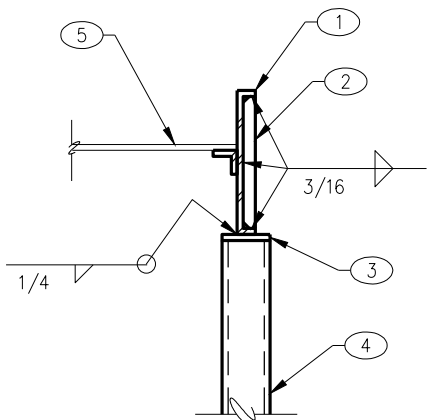
1. STEEL STAIR BEAM.
2. TREADS, RISERS, AND LANDING - PER ARCHITECTURAL DRAWINGS.
3. STEEL ANGLE 2"x2"x1/2".
4. WELD 3" EACH END - TYPICAL.
5. BEAM TO BEAM.
6. PIECE OF STEEL BEAM TO MATCH.
7. 2" TOP AND BOTTOM - TYPICAL.



217 STEEL STAIR BEAM CONNECTION AT LANDING
STR0105 NO SCALE

KEY NOTES:

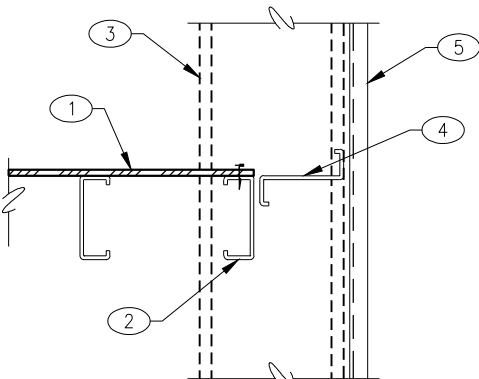
1. STEEL STAIR BEAM.
2. $\frac{1}{4}$ " STEEL STIFFENER.
3. $\frac{1}{4}$ " CAP PLATE (BUTT WELD).
4. STEEL COLUMN.
5. TREAD, RISERS, LANDINGS PER ARCHITECTURAL DRAWINGS.



218 STEEL STAIR BEAM AT STEEL COLUMN
STR0110 NO SCALE

KEY NOTES:

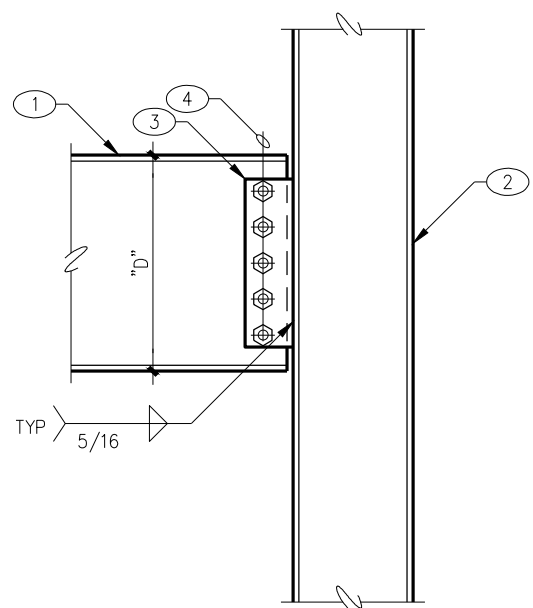
1. PLYWOOD SHEATHING-ATTACH PER GENERAL STRUCTURAL NOTES.
2. STEEL FLOOR PURLIN.
3. STEEL COLUMN BEYOND.
4. STEEL WIND GIRT.
5. METAL WALL PANEL.



219 PLYWOOD SHEATHING AT STEEL FLOOR PURLIN
NO SCALE

KEY NOTES:

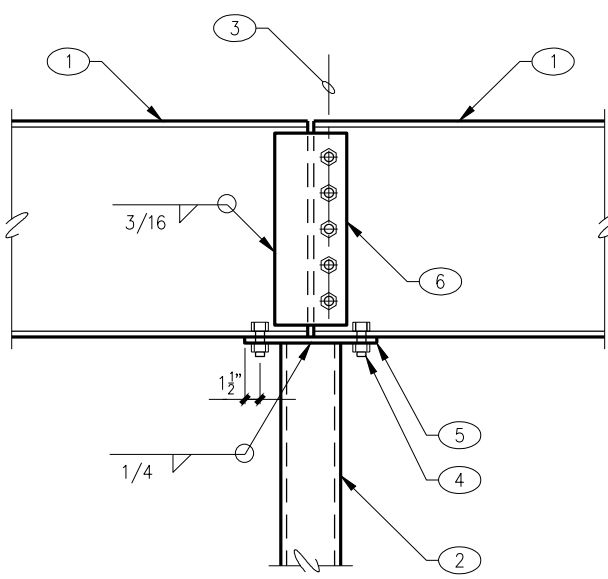
1. STEEL BEAM.
2. STEEL COLUMN.
3. $\frac{3}{4}$ " STEEL SHEAR PLATE.
4. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL (20) "BOLT SCHEDULE FOR STEEL CONNECTIONS".



212 STEEL BEAM AT STEEL COLUMN
05-SB-SC0301 NO SCALE

KEY NOTES:

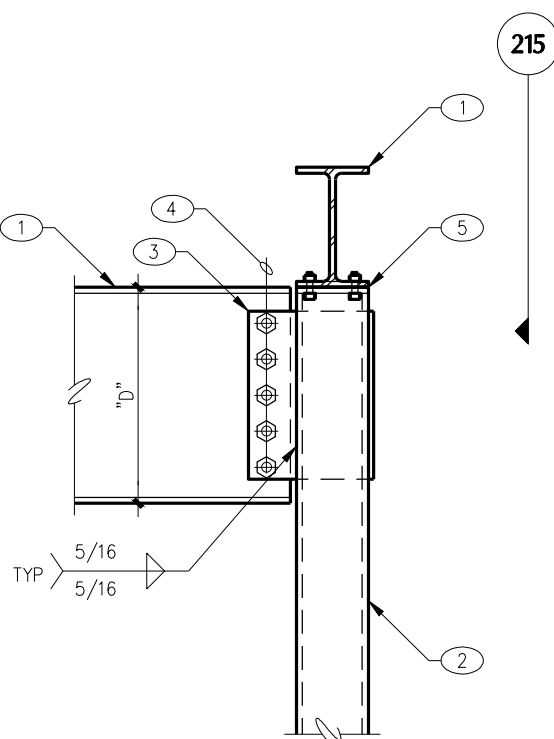
1. STEEL BEAM.
2. STEEL COLUMN.
3. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL (20) "BOLT SCHEDULE FOR STEEL CONNECTIONS".
4. (4) $\frac{3}{4}$ " BOLTS ON BEAM GAGE.
5. $\frac{1}{2}$ " CAP PLATE, PLATE WIDTH EQUALS BEAM WIDTH.
6. $\frac{3}{4}$ " X 7" STEEL PLATE.



213 STEEL BEAMS TO STEEL COLUMN CONNECTION
05-SB-SC0104 NO SCALE

KEY NOTES:

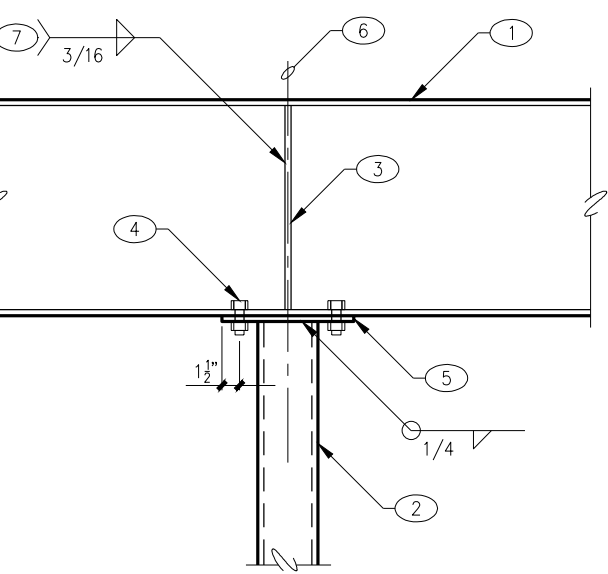
1. STEEL BEAM.
2. STEEL COLUMN.
3. $\frac{3}{4}$ " STEEL KNIFE PLATE.
4. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL (20) "BOLT SCHEDULE FOR STEEL CONNECTIONS".
5. $\frac{1}{2}$ " CAP PLATE.



214 STEEL BEAM AT STEEL COLUMN
05-SB-SC0204 NO SCALE

KEY NOTES:

1. STEEL BEAM.
2. STEEL COLUMN.
3. $\frac{3}{4}$ " STIFFENER PLATE EACH SIDE OF BEAM.
4. (4) $\frac{3}{4}$ " BOLTS ON BEAM GAGE.
5. $\frac{1}{2}$ " CAP PLATE, PLATE WIDTH EQUALS BEAM WIDTH.
6. CENTERLINE OF COLUMN.
7. WELD (3) SIDES-TYPICAL.

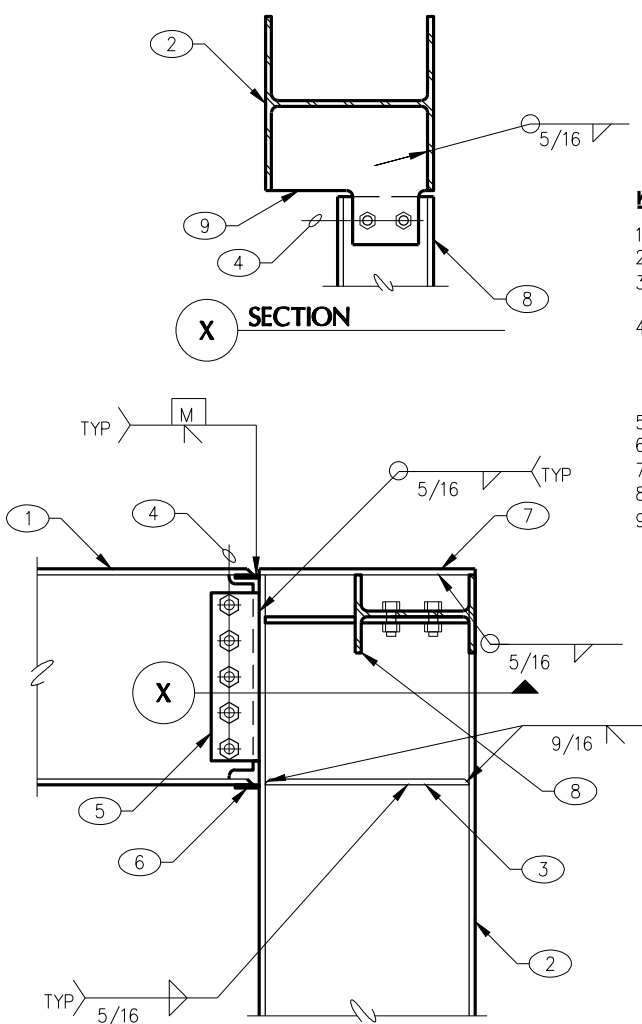


NOTE:
STUDS WELDED TO BOTTOM OF FLANGE, MAY BE USED IN LIEU OF BOLTS.

215 STEEL BEAM AT STEEL COLUMN
05-SB-SC0102 NO SCALE

KEY NOTES:

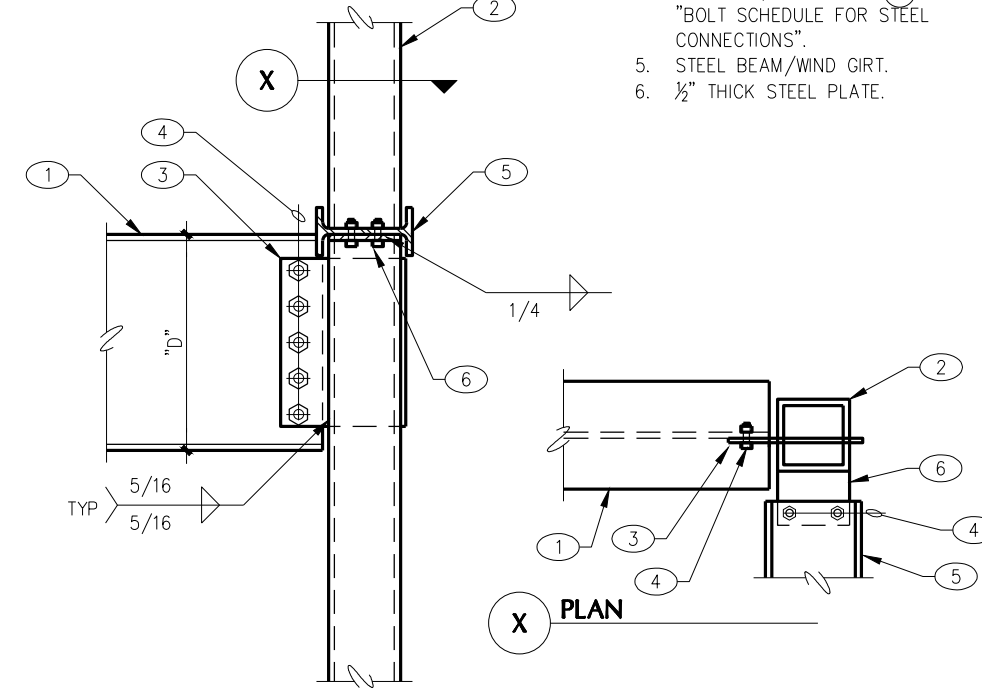
1. STEEL BEAM.
2. STEEL COLUMN.
3. $\frac{3}{4}$ " STEEL PLATE EACH SIDE OF WEB.
4. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL (20) "BOLT SCHEDULE FOR STEEL CONNECTIONS".
5. SHEAR PLATE PER TYPICAL.
6. STEEL BACKER PLATE.
7. $\frac{1}{2}$ " THICK CAP PLATE.
8. STEEL BEAM/WIND GIRT.
9. $\frac{3}{4}$ " STEEL PLATE.



208 MOMENT CONNECTION - STEEL BEAM AT STEEL COLUMN
SB-SC0302-3 NO SCALE

KEY NOTES:

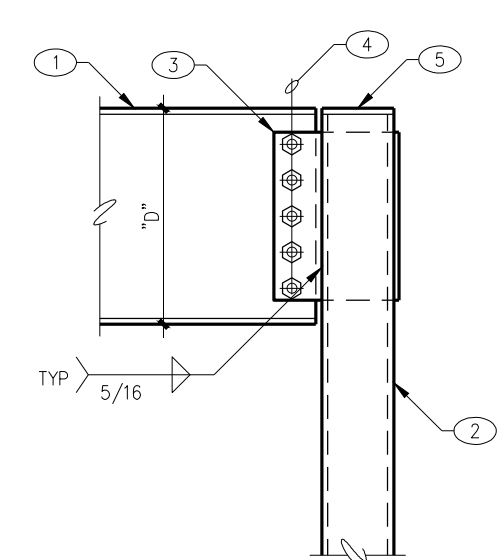
1. STEEL BEAM.
2. STEEL COLUMN.
3. $\frac{3}{4}$ " STEEL KNIFE PLATE.
4. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL (20) "BOLT SCHEDULE FOR STEEL CONNECTIONS".
5. STEEL BEAM/WIND GIRT.
6. $\frac{1}{2}$ " THICK STEEL PLATE.



209 STEEL BEAM AT STEEL COLUMN
05-SB-SC0201 NO SCALE

KEY NOTES:

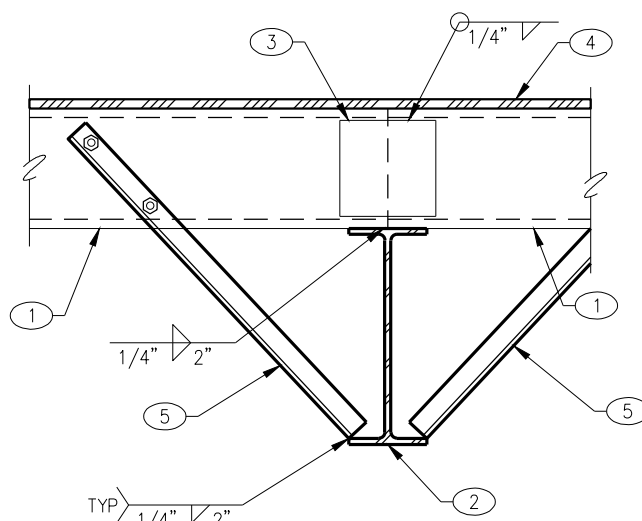
1. STEEL BEAM.
2. STEEL COLUMN.
3. $\frac{3}{4}$ " STEEL KNIFE PLATE.
4. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL (20) "BOLT SCHEDULE FOR STEEL CONNECTIONS".
5. $\frac{1}{2}$ " CAP PLATE.



210 STEEL BEAM AT STEEL COLUMN
SB-SC0204 NO SCALE

KEY NOTES:

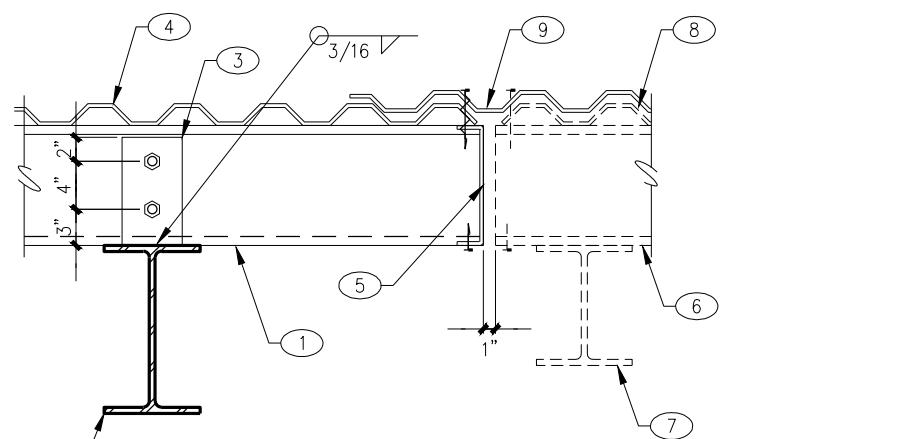
1. STEEL PURLIN.
2. STEEL BEAM.
3. 8" SQ. X $\frac{1}{4}$ " STEEL SPLICE PLATE.
4. PLYWOOD FLOOR SHEATHING PER G.S.N.
5. STEEL BRACE (2X2X1/2" W/ (2)- $\frac{3}{8}$ " BOLTS.



211 STEEL PURLIN AT STEEL BEAM
SP-SB0101 NO SCALE

KEY NOTES:

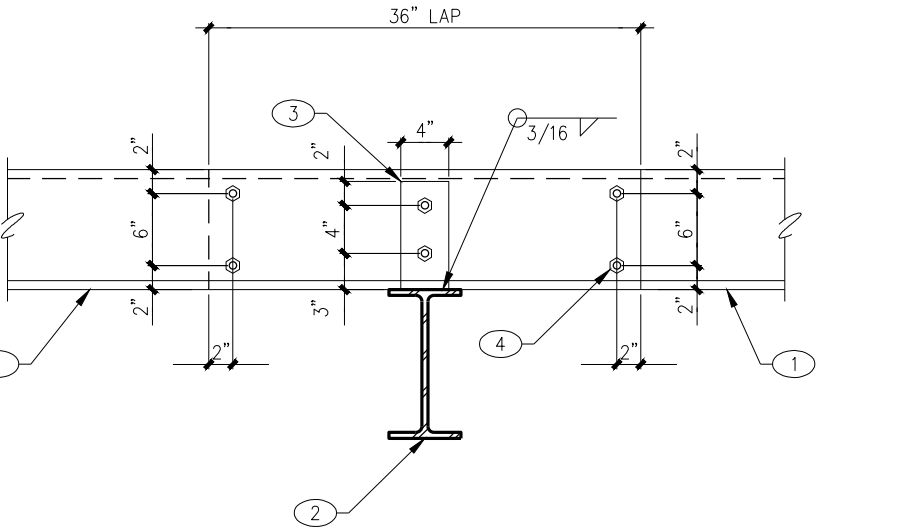
1. STEEL PURLIN.
2. STEEL BEAM.
3. $\frac{1}{2}$ " THICK STEEL PLATE W/ (2) $\frac{1}{2}$ " A307 BOLTS.
4. METAL PANEL PER PLAN.
5. CONTINUOUS 16 GA. 12" WITH (2) #10 TEK SCREWS TO EACH PURLIN.
6. EXISTING STEEL PURLIN.
7. EXISTING STEEL BEAM.
8. EXISTING METAL PANEL.
9. NEW METAL PANEL TO LAP NEW & EXISTING FOR CLOSURE - WHERE OCCURS.



204 STEEL PURLIN AT STEEL BEAM
NO SCALE

KEY NOTES:

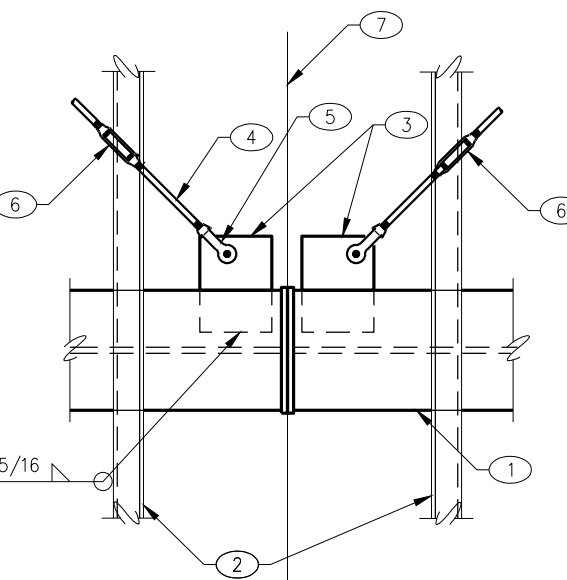
1. STEEL PURLIN.
2. STEEL BEAM.
3. $\frac{1}{2}$ " THICK STEEL PLATE W/ (2) $\frac{1}{2}$ " A307 BOLTS.
4. (4) $\frac{1}{2}$ " A307" BOLTS AT SPLICE.



205 STEEL PURLIN AT STEEL BEAM
SP-SB0101-2 NO SCALE

KEY NOTES:

1. STEEL BEAM.
2. STEEL ROOF PURLIN SEE DETAIL (20).
3. 8"x12"x1/2" THICK STEEL PLATE.
4. STEEL ROD BRACE PER PLAN.
5. STEEL JAW END WITH 5,000# MINIMUM WLL.
6. STEEL TURNBUCKLE WITH 5,000# MINIMUM WLL.
7. ROOF RIDGE LINE.

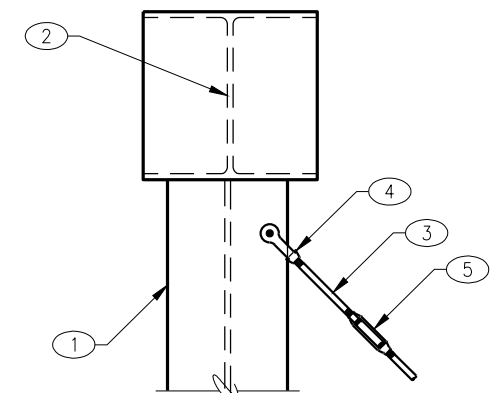


NOTE:
ATTACH BRACE TO BOTTOM FLANGE OF BEAM.

206 PLAN - STEEL ROD BRACE AT STEEL BEAM
NO SCALE

KEY NOTES:

1. STEEL BEAM.
2. STEEL COLUMN.
3. STEEL ROD BRACE PER PLAN.
4. STEEL JAW END WITH 5,000# MINIMUM WLL.
5. STEEL TURNBUCKLE WITH 5,000# MINIMUM WLL.



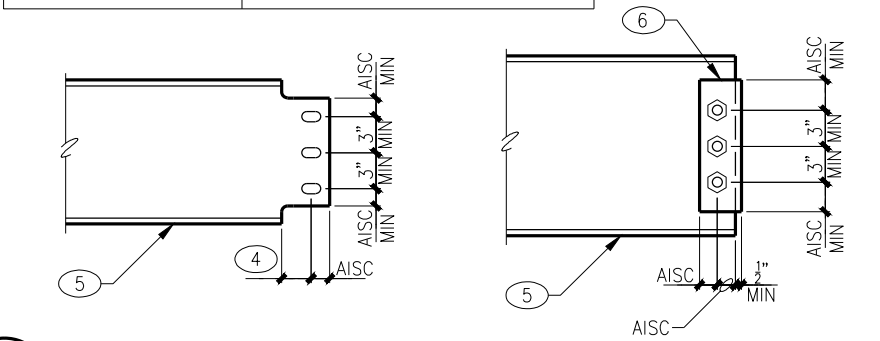
NOTE:
ATTACH BRACE TO BOTTOM FLANGE OF BEAM.

207 PLAN - STEEL ROD BRACE AT STEEL BEAM
NO SCALE

NOMINAL BEAM DEPTH "D"	NUMBER OF $\frac{3}{4}$ " ASTM A325N BOLTS
UP TO 7"	2
8" - 11"	2
12" - 14"	3
15" - 17"	4
18" - 20"	5
21" - 23"	6
24" - 29"	7
30" - 32"	8
33" - 35"	9
36"	10

KEY NOTES:

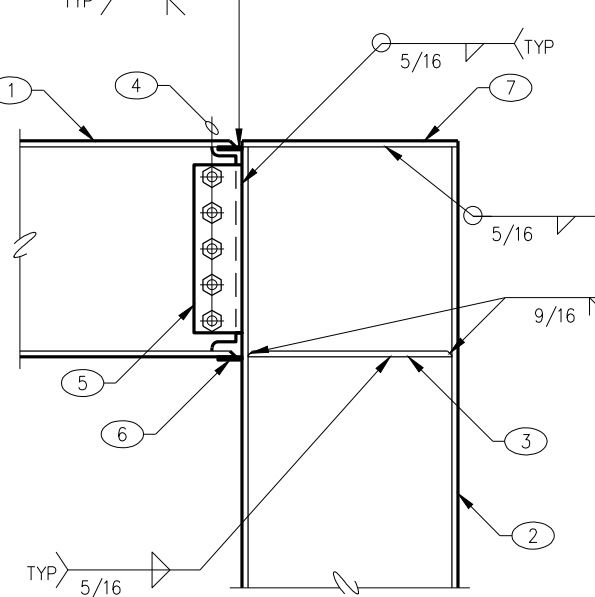
1. THE TYPICAL STEEL BEAM TO STEEL COLUMN OR STEEL BEAM TO STEEL BEAM CONNECTION CONSISTS OF $\frac{3}{4}$ " THICK SINGLE SHEAR PLATES WITH $\frac{3}{4}$ " ASTM A325N BOLTS. USE $\frac{3}{4}$ " SHEAR PLATES WHERE 10" - 22" OR GREATER.
2. ALL BOLTS SHALL BE INSTALLED USING SHORT SLOTTED HOLES IN EITHER THE BEAM WEB OR THE SHEAR PLATE PER LATEST AISC SPECIFICATIONS.
3. MAINTAIN MINIMUM BOLT SPACING AND EDGE DISTANCES PER AISC SPECIFICATIONS 116.4 AND 116.5. AND AS SHOWN BELOW.
4. CLIP FLANGE FOR $\frac{1}{2}$ " CLR.
5. STEEL BEAM.
6. SHEAR PLATE.



201 BOLT SCHEDULE FOR STEEL CONNECTIONS
02-S02 NO SCALE

KEY NOTES:

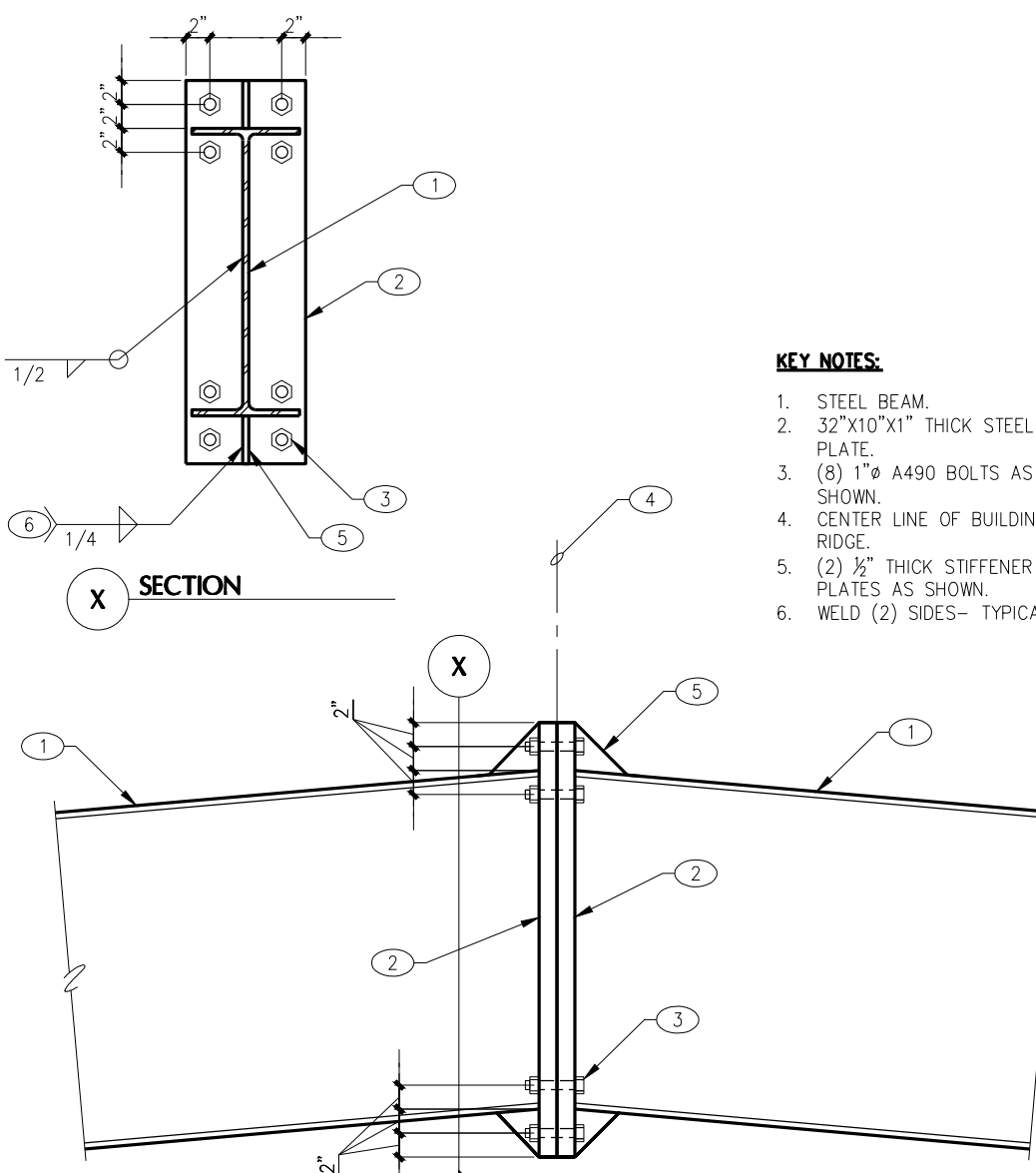
1. STEEL BEAM.
2. STEEL COLUMN.
3. $\frac{3}{4}$ " STEEL PLATE EACH SIDE OF WEB.
4. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL (20) "BOLT SCHEDULE FOR STEEL CONNECTIONS".
5. SHEAR PLATE, PER TYPICAL.
6. STEEL BACKER PLATE.
7. $\frac{1}{2}$ " THICK CAP PLATE.



202 MOMENT CONNECTION - STEEL BEAM AT STEEL COLUMN
SB-SC0302-3 NO SCALE

KEY NOTES:

1. STEEL BEAM.
2. 32"x10"x1" THICK STEEL PLATE.
3. (8) 1" A490 BOLTS AS SHOWN.
4. CENTER LINE OF BUILDING RIDGE.
5. (2) $\frac{1}{2}$ " THICK STIFFENER PLATES, AS SHOWN.
6. WELD (2) SIDES- TYPICAL.



203 STEEL BEAM AT RIDGE - MOMENT CONNECTION
NO SCALE

FRAMING DETAILS

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JOB NO.: 2019-0064 PROJECT MANAGER: ANDY K. CAD OPERATOR: GU

FROST STRUCTURAL ENGINEERING

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REVISIONS

BY

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ARCHITECTURE & PLANNING

DRAWING: S5 FRAMING DETAILS 201-219 - S5 FRAMING DETAILS 201-219

PROJECT: Yavapai Mechanical Building Addition
5860 N. Fulton Drive
Prescott Valley, AZ. 86314

PROJECT: 100-33-297B

DRAWN BY

GU

CHECKED BY

DATE

6/28/19

SCALE

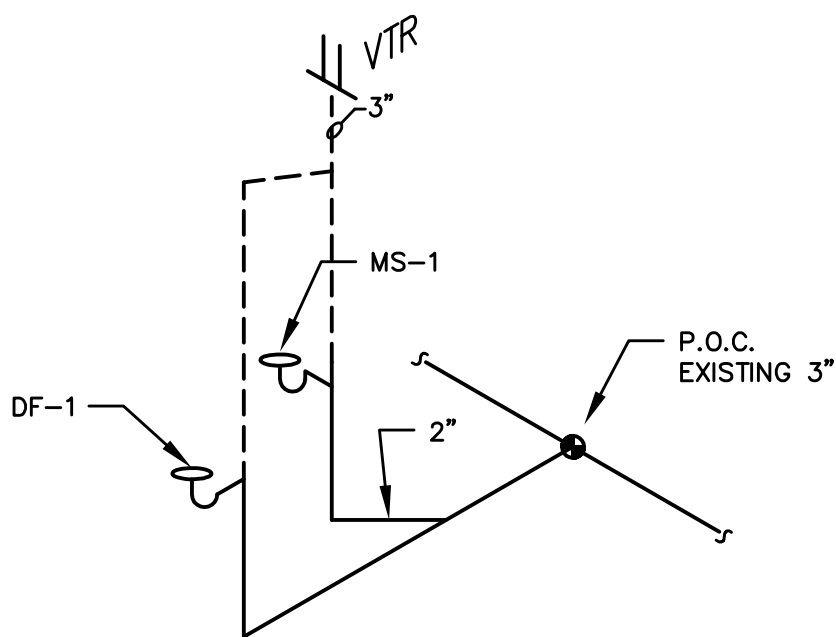
AS NOTED

JOB NO.

2019-0064

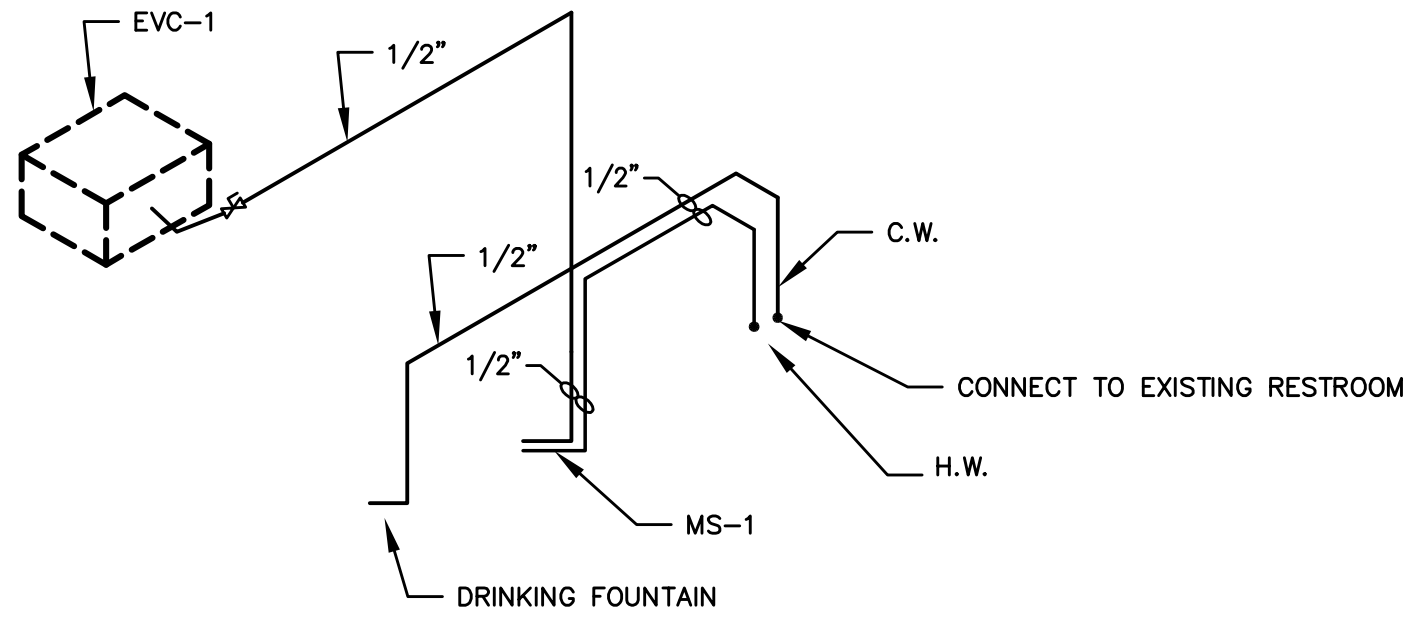
SHEET

S5



WASTE & VENT SCHEMATIC

SCALE: N.T.S.



DOMESTIC WATER SCHEMATIC

SCALE: N.T.S.

MECHANICAL GENERAL NOTES

- FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, FEES, PERMITS, CERTIFICATE OF INSPECTION, ETC. NECESSARY OR REASONABLE REQUIRED FOR THE COMPLETE INSTALLATION OF ALL AIR-CONDITIONING WORK. THE WORK SHALL BE IN STRICT ACCORDANCE WITH ASHRAE GUIDELINES, AND ALL LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS.
- MECHANICAL EQUIPMENT LOCATIONS TO COMPLY WITH ALL APPLICABLE CODES.
- COORDINATE EXACT DIFFUSER AND GRILLE LOCATIONS WITH OTHER TRADES.
- NOT USED -
- PROVIDE 1 1/2" DUCT LINER IN ALL SUPPLY & RETURN DUCTS WITHIN 20 FT. OF AIR HANDLER/AC UNIT DUCT CONNECTIONS AND WHERE SHOWN ON DRAWINGS. INCREASE SHEETMETAL DIMENSIONS ACCORDINGLY. ALL SUPPLY AND RETURN DUCTS TO BE SHEET METAL WITH 1 1/2" EXTERIOR INSULATION WITH FOIL FACE, EXCEPT FOR LINED DUCT. SUPPLY AND RETURN DUCTS EXPOSED TO WEATHER SHALL BE LINED WITH 2" DUCT LINER.
- FLEX DUCTS TO BE THERMAFLEX TYPE GKM OR APPROVED EQUAL, 8FT. MAX. LENGTH
- OUTSIDE AIR INTAKES SHALL BE MINIMUM 10 FEET FROM ANY EXHAUST OR PLUMBING VENTS.
- EXTEND 3/4" CONDENSATE DRAIN AS SHOWN ON DRAWING, OR TO NEAREST PLUMBING TAIL PIECE. INTERIOR CONDENSATE DRAINS TO BE SCHED. 40 PVC, OUTSIDE CONDENSATE DRAINS TO BE TYPE "M" COPPER.
- NEW DUCTWORK TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE W/ "ASHRAE GUIDE AND SMACNA STANDARDS".
- TEST & BALANCE SYSTEM, MAY BE DONE BY INSTALLATION CONTRACTOR. (LOCAL GOVERNING AUTHORITIES MAY ALSO REQUIRE A CERTIFIED REPORT) SUBMIT CERTIFIED REPORT TO ENGINEER WITH 10 DAYS OF COMPLETING TEST AND BALANCE.
- MECHANICAL CONTRACTOR TO VERIFY THAT ALL DUCTWORK WILL FIT WHERE INDICATED W/O INTERFERENCE WITH STRUCTURAL MEMBERS OR OTHER MATERIALS OR EQUIPMENT.
- CONTRACTOR AND ARCHITECT TO VERIFY T-STAT LOCATIONS WITH OWNER PRIOR TO INSTALLING THERMOSTATS. CONTRACTOR SHALL PROVIDE ALL NECESSARY WIRING AND COORDINATE ALL MECHANICAL WORK, INCLUDING EQUIPMENT, DUCTWORK AND PIPING, W/ ARCHITECT AND OTHER TRADES PRIOR TO COMMENCING WORK.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR REGARDING SPACE AVAILABILITY FOR RECESSED LIGHTING AND DUCTWORK TO AVOID RELOCATION OF DUCTWORK AT THE MECHANICAL CONTRACTOR'S EXPENSE.
- THERMOSTATS SHALL BE 7 DAY PROGRAMMABLE WITH AUTOMATIC CHANGE-OVER LOCKING COVER AND FAN ON CONTINUOUSLY (NO EXCEPTIONS). HONEYWELL OR EQUAL T-7300 W/COMMERCIAL SUBBASE.
- DUCTS SHALL CONFORM TO DIMENSIONS ON THE DRAWING UNLESS LOCATION OF STRUCTURAL MEMBERS PROHIBITS. IN CASE OF A CHANGE IN DIMENSIONS, CROSS SECTIONAL AREAS SHALL BE MAINTAINED.
- DUCTS SHALL BE SUBSTANTIALLY SUPPORTED WITH HANGERS TO THE STRUCTURE. PLACING SUPPORTS NOT OVER 8 FEET APART ALONG THE LENGTH OF THE DUCT. SHEET METAL SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
UP TO 12" WIDTH 26 GAUGE STEEL
13" TO 30" WIDTH 24 GAUGE STEEL
31" TO 60" WIDTH 22 GAUGE STEEL
- DUCTWORK SHALL BE INSTALLED PER THE LATEST SMACNA MANUAL FOR LOW PRESSURE DESIGN.
- DUCTWORK TO CONFORM TO CURRENT APPLICABLE CODES
- INSULATION, MATERIAL, CONVERINGS, ADHESIVES, VAPOR-BARRIERS & TAPES SHALL CONFORM TO NFPA '90A, FLAME SPREAD CLASSIFICATION NOT TO EXCEED 25 AND SMOKE DEVELOPMENT NOT TO EXCEED 50.
- THE EXHAUST DUCTS MUST TERMINATE 10 FEET HORIZONTALLY FROM OR 3 FT. ABOVE ALL AIR INTAKES.
- SEAL ALL JOINTS IN DUCTWORK WITH DUCT SEALER.
- PROVIDE RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES & EXTRACTORS WHERE APPLICABLE.
- DUCT SIZES SHOWN ARE "CLEAR INSIDE" DIMENSIONS.
- MECHANICAL CONTRACTOR TO VERIFY AND COORDINATE AVAILABLE VOLTAGE, PHASE & MCA LOADS WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING ELECTRICAL & MECHANICAL EQUIPMENT.
- MECHANICAL CONTRACTOR TO VERIFY THAT ALL SPECIFIED EQUIPMENT IS COMPATIBLE WITH DUCTWORK, STRUCTURE & OTHER PHYSICAL FACTORS BEFORE ORDERING
- LOCATE ALL DIFFUSERS, GRILLES & REGISTERS ACCORDING TO ARCHITECTURAL REFLECTED CEILING PLAN.
- ANY PROBLEMS THAT DEVELOP WITH THE MECHANICAL SYSTEMS AS A RESULT OF "VALUE ENGINEERING" OR OTHER CHANGES BY OWNER/CONTRACTOR (WITHOUT APPROVAL OF ENGINEER) SHALL BE THE RESPONSIBILITY OF OWNER/CONTRACTOR.
- SYSTEMS SHALL NOT BE USED FOR TEMPORARY HEATING OR COOLING DURING CONSTRUCTION.
- PROVIDE CEILING ACCESS PANELS FOR ALL VOLUME DAMPERS AND ALL VALVES ABOVE GYP. BOARD CEILINGS.
- SUBMITTAL: WITHIN 30 DAYS AFTER AWARD OF CONTRACT FOR THIS WORK. SEVEN COPIES OF PRODUCT BROCHURES, ONE COMPLETE BINDER FOR HVAC ITEMS INDEXED AND SEPARATED BY DIVIDERS, ONE BINDER FOR ALL PLUMBING ITEMS.
- ALL MECHANICAL EQUIPMENT AND MATERIALS SHALL BE INSTALLED AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

GENERAL PLUMBING NOTES

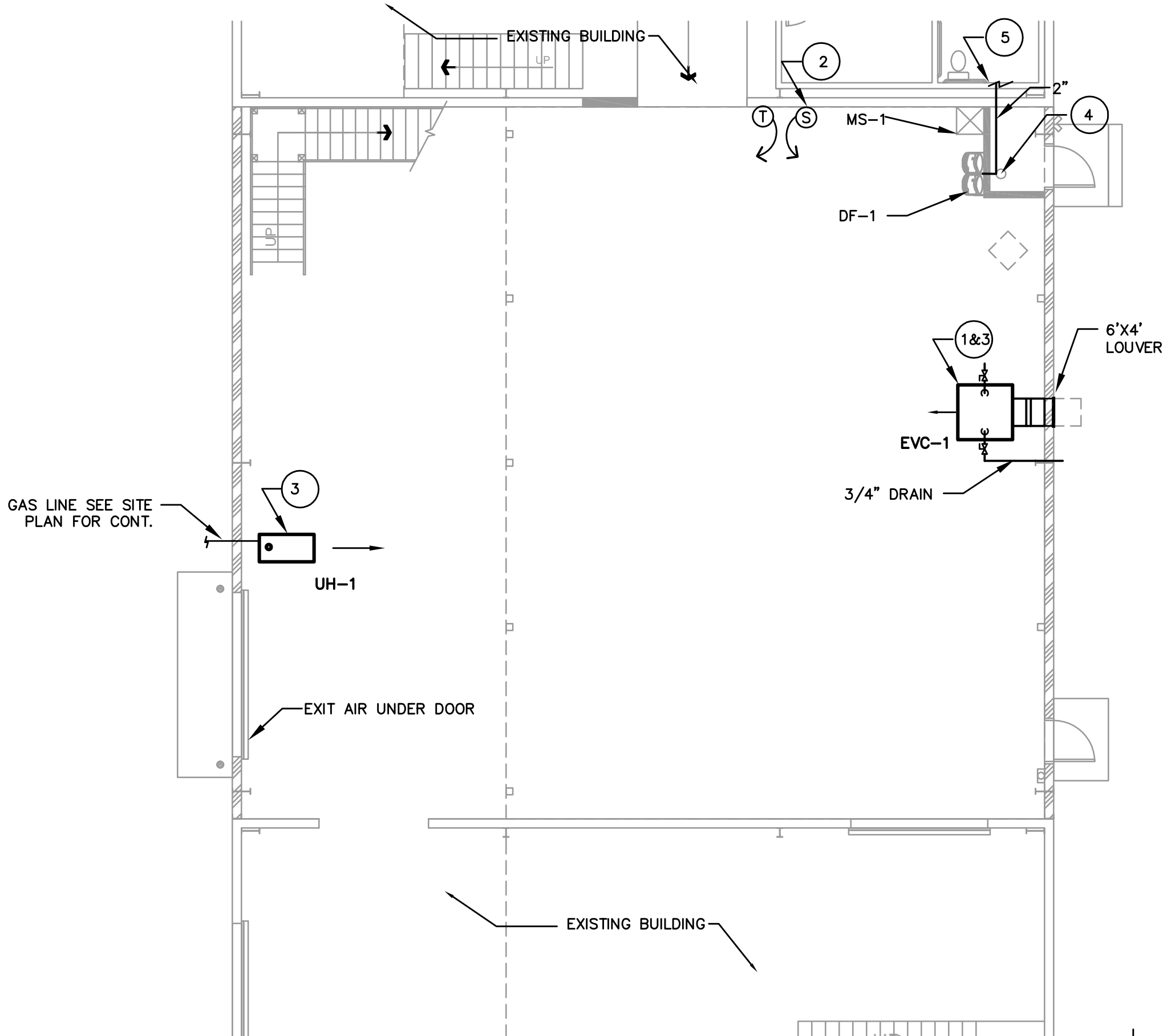
- COMPLY WITH ALL LOCAL, COUNTY, STATE AND FEDERAL CODES, ORDINANCES, RULES AND REGULATIONS.
- EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- USE 95-5 TIN-ANTIMONY SOLDER ON ALL SOLDERED JOINTS 1/2" THROUGH 2" . PREPARE JOINTS WITH SOLVENT AND EMERY CLOTH.
- CONTRACTOR TO EXTEND WATER PIPING TO ALL FIXTURES, OUTLETS, AND EQUIPMENT. PROVIDE SHUT-OFF VALVES OR FIXTURE STOPS, AS REQUIRED FOR PROPER SERVICE.
- SIZE ALL HANGERS ON INSULATED LINES TO FIT AROUND OUTSIDE DIAMETER OF INSULATION SPECIFIED WITH ALLOWANCES FOR GALVANIZED SHEET METAL SHIELD.
- INSTALL DIELECTRIC FITTING BETWEEN FERROUS AND NON-FERROUS MATERIALS.
- PIPE RELIEF DRAIN FOR WATER HEATER TO OUTSIDE OR APPROVED RECEPTACLE.
- SOIL AND WASTE PIPING SHALL BE SCHEDULE 40 ABS OR PVC PIPE.
- SLOPE SOIL/WASTE/DRAIN PIPING 3" AND SMALLER AT A GRADIENT SLOPE OF NOT LESS THAN 1/4" P.L.F. UNLESS SPECIFICALLY NOTED ON THE DRAWING.
- VENT PIPING SHALL TERMINATE NOT LESS THAN SIX (6) INCHES ABOVE ROOF NOR LESS THAN ONE (1) FOOT FROM ANY VERTICAL SURFACE AND NOT LESS THAN TEN (10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT. VENT RISERS AS REQUIRED TO MEET THESE MINIMUM CLEARANCES.
- GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE W/ MALLEABLE IRON FITTINGS. GAS PIPING BELOW GRADE SHALL ALSO HAVE 'SCOTCH-GUARD' PLASTIC COATING OR APPROVED PLASTIC PIPE.
- GAS PIPING JOINTS SHALL BE THREADED, EXCEPT PIPING 2 1/2" AND LARGER SHALL BE WELDED.
- GAS LINE FLEXIBLE PIPE CONNECTORS SHALL BE CONSTRUCTED OF A ONE PIECE DESIGN AND SHALL BE U.L. AND OR AGA APPROVED AS REQUIRED BY LOCAL AUTHORITIES.
- ADEQUATELY SUPPORT ALL PIPE AGAINST SAGGING, POCKETING, SWAYING AND DISPLACEMENT. PROPERLY SPACE AND APPLY HANGERS PER CODE.
- CONTRACTOR SHALL ROUGH-IN ALL WASTES AND WATER SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL WATER SUPPLIES SHALL BE VALVED.
- GENERAL, MECHANICAL, ELECTRICAL AND PLUMBING CONTRACTORS AND SUBCONTRACTORS SHALL COORDINATE THEIR WORK PRIOR TO INSTALLATION TO PROVIDE FOR PROPER CLEARANCES BETWEEN EQUIPMENT, DUCTWORK, PIPING, JOISTS, CEILINGS, ETC.
- WATER PIPING SHALL BE WRSBO AQUAPEX OR EQUAL ABOVE SLAB IN WALLS AND BELOW SLAB.
- INSTALL 4" BACK WATER VALVE ON SEWER LINE IF REQUIRED.
- EVAP COOLER DRAIN PIPING TO BE TYPE "M" HARD DRAWN COPPER.
- OUTSIDE CONDENSATE DRAINS TO BE TYPE "M" HARD DRAWN COPPER.
- DOMESTIC HOT WATER PIPE & RECIRC LOOP TO BE INSULATED WITH 1/2" WALL ARMORFLEX INSULATION.
- PROVIDE ACCESS PANELS FOR ALL VALVES IN WALLS & ABOVE GYP. BOARD CEILINGS.
- ALL PLUMBING EQUIPMENT, VALVES, PUMPS, FIXTURES, ETC. SHALL BE INSTALLED AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

KEYED NOTES

- EVC-1 IS LOCATED ON THE FIRST FLOOR.
- EVC-1 SWITCH.
- MOUNT UH-1 & EVC-1 10 FT ABOVE FLOOR
- SPRINKLER RISER
- CONNECT TO EXISTING WASTELINE.
- ALL EQUIPMENT SELECTED BY OWNER.

PLUMBING AND HVAC FLOOR PLAN

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

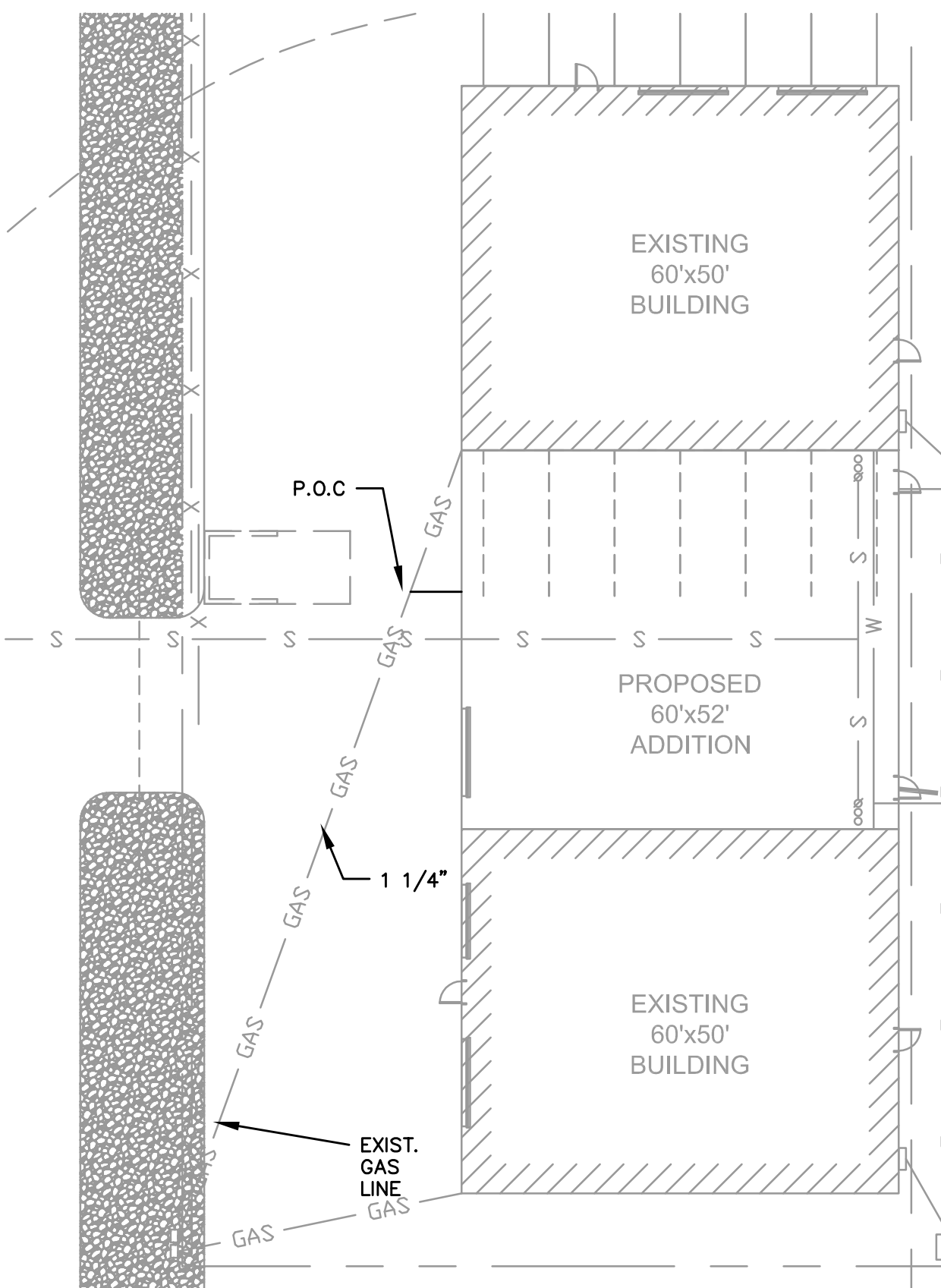


- ⑥ PLUMBING EQUIPMENT
MS-1 - MOSTEE 24"x24"
DF-1 -ELKAY EZ5TLBLC

- ⑥ MECHANICAL EQUIPMENT
EVC-1- AREO COOL 10,000 CFM, 2HP
1ø, 8" FILTER
UH-1- REZNOR UDAS 125,000 BTUH

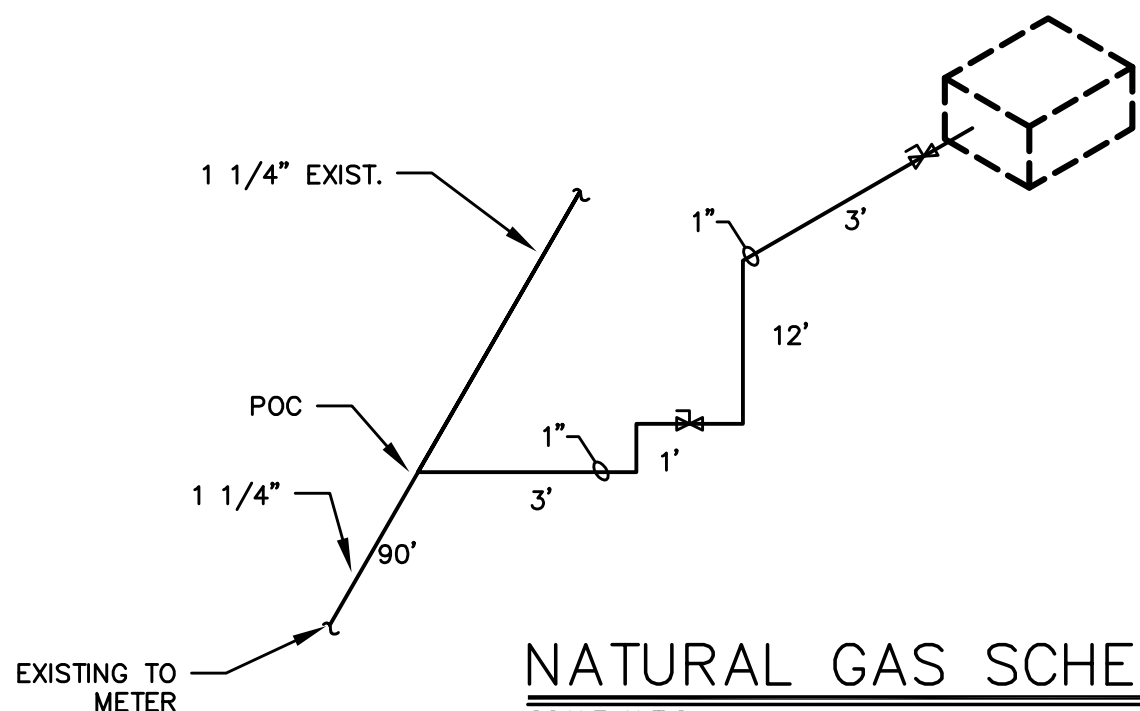
PLUMBIN LOAD CALC.

	WATER	WASTE
DF-1	- 0.75 GPM	- 2 FU
MS-1	- 3 GPM	- 2 FU
EVC-1	- 1 GPM	- 0
	4.75 GPM	4 FU



SITE PLAN

SCALE: 1" - 20'-0"



NATURAL GAS SCHEMATIC

SCALE: N.T.S.

EXISTING UH-1 = 200 MBH
UH-1 = 125 MBH
TOTAL = 325 MBH

TOT. DEVELOPED LENGTH TO UH-1 IS 110 FT

TOT. DEVELOPED LENHTH TO EXISTING UNIT HEATER IS 200 FT



DESIGN ENGINEERING OPERATIONS

2929 E. MAIN ST. #426 MESA, AZ 85213 928-713-4953 whrbe@msn.com

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: Yavapai Mechanical Building Addition
5880 N. Fulton Dr.
Prescott Valley, AZ 86314
103-33-297B

PROJECT:

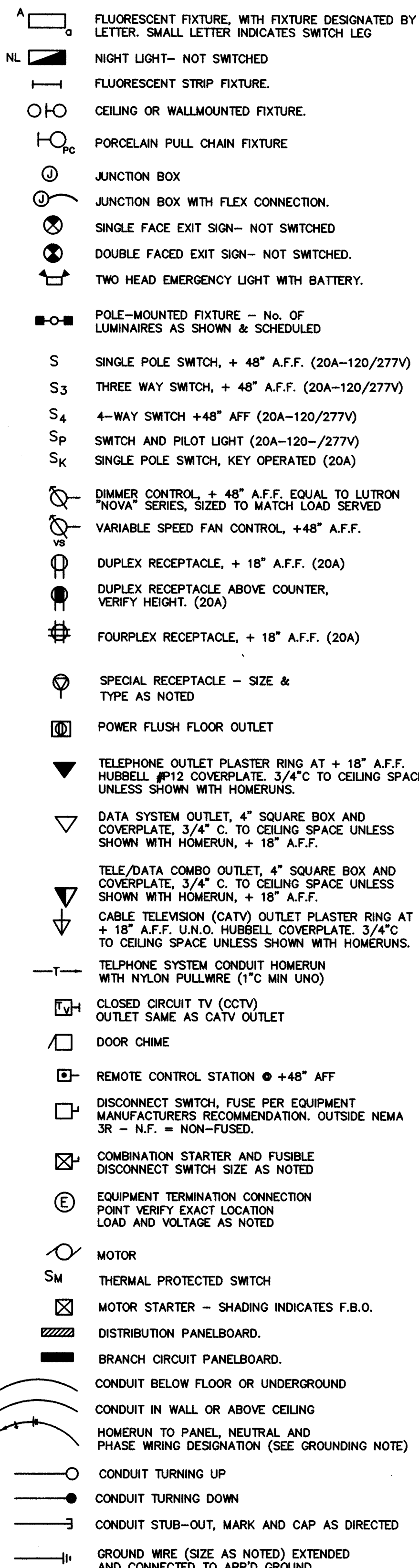
APN:

DRAWN BY WTW
CHECKED BY CMW
DATE March 25th, 2019
JOB NO. 733
SHEET

MP-1

ELECTRICAL SYMBOLS

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT



ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR (⌀ OF OUTLET)
A.F.G.	ABOVE FINISHED GRADE (⌀ OF OUTLET)
E.C.	EMPTY CONDUIT
G.F.I.	GROUND FAULT INTERRUPTER
WP	WEATHERPROOF
UNO	UNLESS OTHERWISE NOTED
NL	NIGHT LIGHT
TYP	TYPICAL
EDF	ELECTRIC DRINKING FOUNTAIN
TMB	TELEPHONE MOUNTING BOARD

OUTLET MOUNTING HEIGHTS PER AMERICAN DISABILITY ACT

SWITCHES	+48" (MAX)
RECEPTACLES	+18" (MAX)
TELEPHONE	+18" (MAX)
SIDE REACH	+54" (MAX)

ALL WIRING #6 AWG AND LARGER SHALL BE XHHW COPPER, #8 AWG AND SMALLER SHALL BE THHN/THWN COPPER

OUTLETS INSTALLED IN FIREWALLS

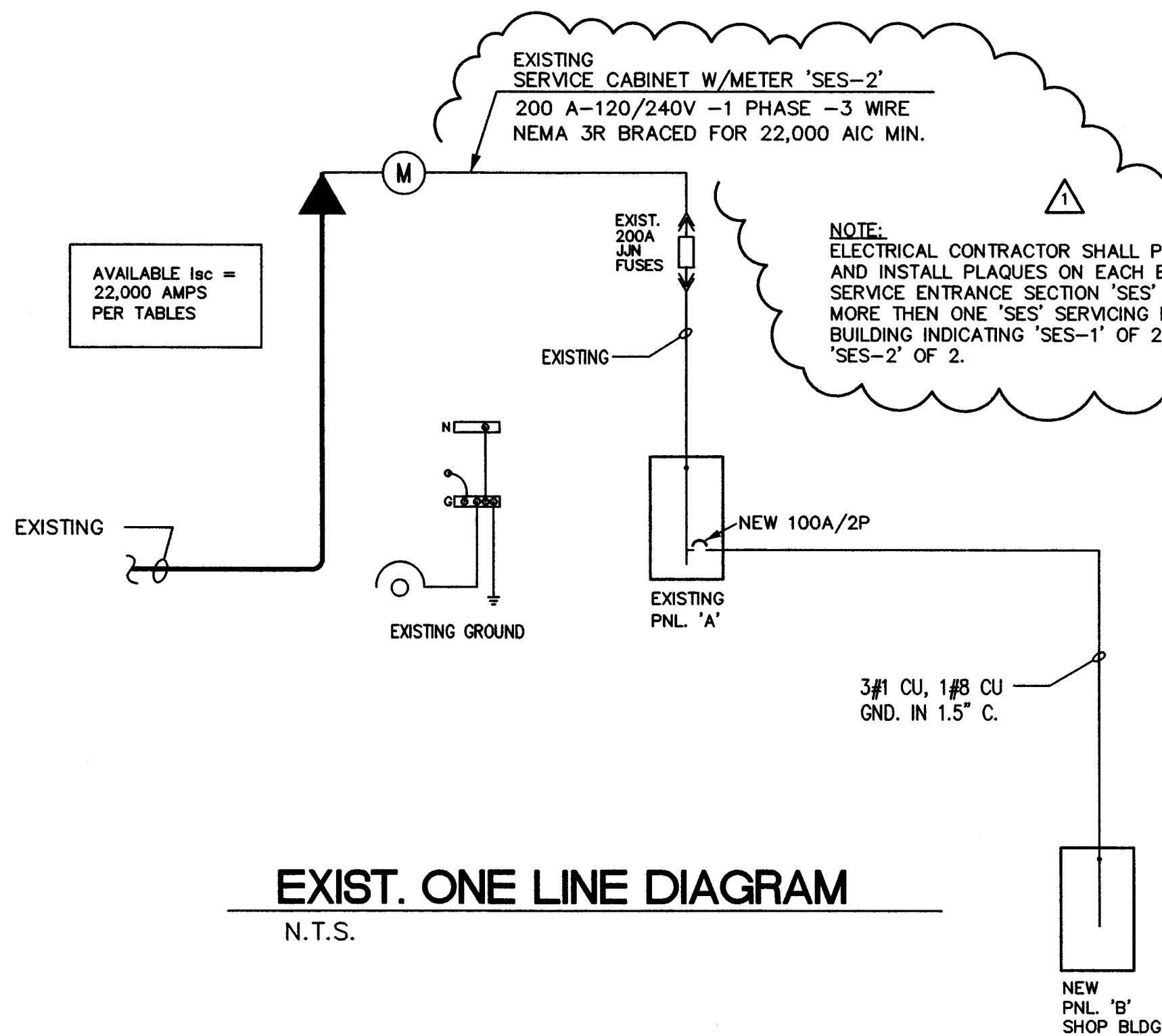
OUTLETS (SWITCHES, RECEPTACLES, ETC.) MOUNTED IN FIRE RATED WALLS SHALL NOT OCCUPY THE SAME WALL CAVITY WITH OTHER OUTLETS WHETHER ON SAME SIDE OR BACK-TO-BACK. RECOMMENDED SPACING IS 24 INCHES HORIZONTAL (MIN).

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 WATERIGHT 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, OR NM CABLES.
- 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

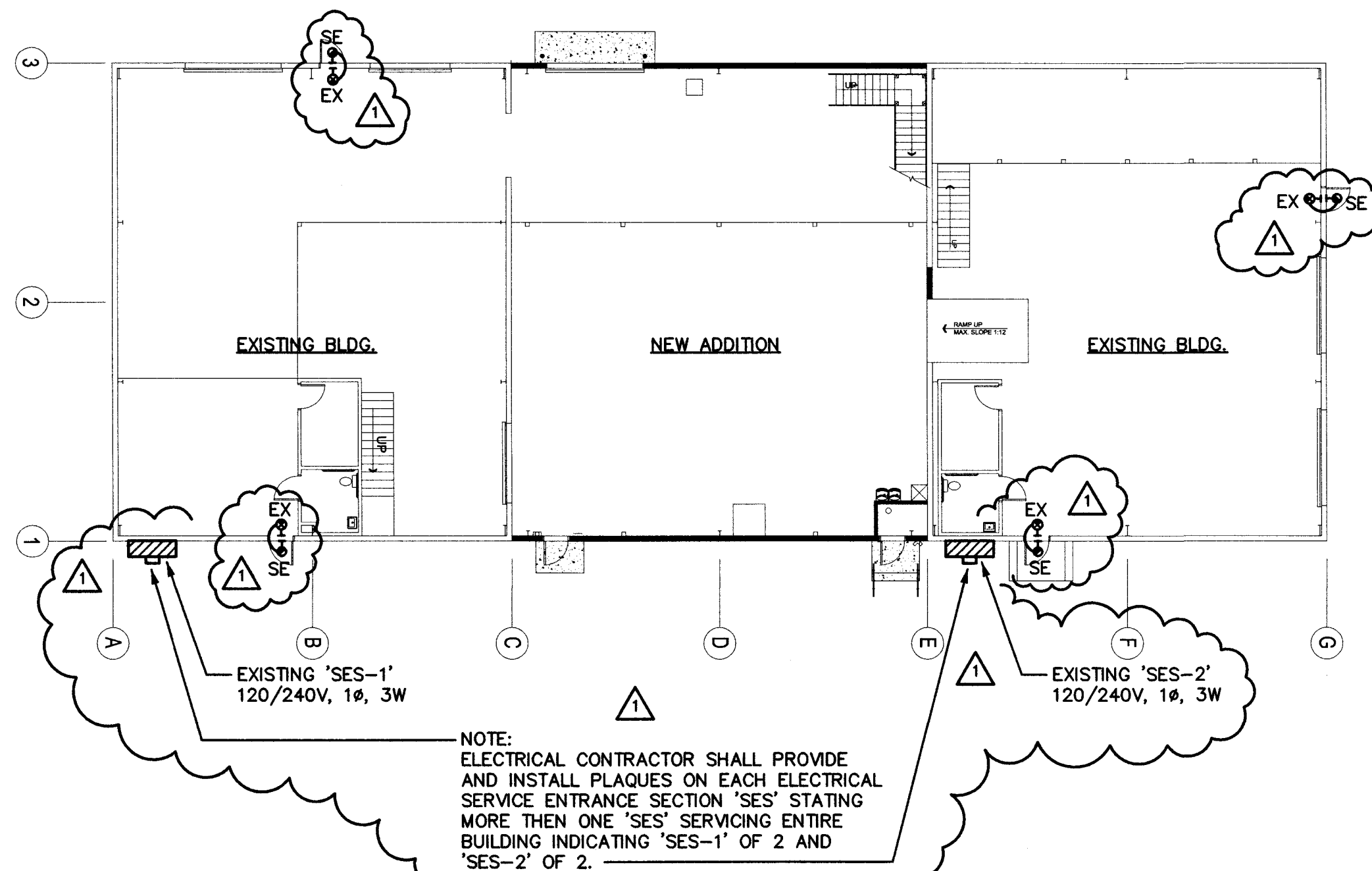
FIRE WALL/FLOOR PENETRATION

ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAIL THAT CONFORM TO UNDERWRITERS LABORATORY'S LISTINGS FOR THROUGH PENETRATION FIRESTOP SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS WHICH SHOW COMPLETE CONFORMANCE WITH THE LISTING TO THE ARCHITECT AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE LOCAL GOVERNING INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.



EXIST. ONE LINE DIAGRAM

N.T.S.



First Floor Emergency Lighting Plan

Scale: 1/16"=1'-0"



Schedule							
Symbol	Label	Manufacturer	Catalog Number	Description	Lamp	Lumens Per Lamp	Light Loss Factor
	A	Lithonia Lighting	CLX L96 3000LM SEF FDL MVOLT GZ10 40K 80CRI (FINISH) (MOUNTING)	8' LED STRIP LIGHT	LED	2813	0.91
	B	Lithonia Lighting	CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI (FINISH) (MOUNTING)	4' LED STRIP LIGHT	LED	2813	0.91
	C	Lithonia Lighting	IBG 2ft 15000LM SEF GND ACL 35K 80CRI	IBG 2ft 15000LM SEF GND ACL 35K 80CRI	LED	11782	0.91
	SE	Lithonia Lighting	AFN (FINISH) PREM WL	DIE-CAST ARCHITECTURAL EMERGENCY LIGHT WITH CAST ALUMINUM HOUSING. TWO LAMPS, POLYCARBONATE PRISMATIC LENS, AND STANDARD WIDE-THROW OPTICS	TWO 6-WATT FROSTED T3-1/4 WEDGE BASE XENON	104	0
		Lithonia Lighting	LHQM LED R HO	QUANTUM LED EMERGENCY COMBO	LED		
		Lithonia Lighting	ELMLT W LP06VS LTP	QUANTUM LED EMERGENCY TWIN-HEAD UNIT WALL MOUNT			

PANELBOARD SYMBOLS

- * CONTINUOUS DUTY/LARGEST MOTOR • 125%
- PROVIDE BREAKER W/ HANDLE "LOCK-ON" DEVICE
- ◆ CIRCUIT VIA TIMECLOCK
- ▲ CIRCUIT VIA PHOTOCELL
- HACR TYPE CIRCUIT BREAKER

PANELBOARD

A

SCHEDULE

MAINS: 200A MCB		LOAD-VA		LOCATION: SEE PLAN	
VOLTAGE: 120/240V, 1ϕ, 3W		MOUNTING: SURFACE (FIELD VERIFY WITH OWNER)		MIN. A.I.C.: 10,000	
TYPE: EXISTING		CIRCUIT DESCRIPTION		CIRCUIT DESCRIPTION	
EXISTING EQUIPMENT		EXISTING EQUIPMENT		EXISTING EQUIPMENT	
SPARE		SPARE		SUB-PANEL 'B'	
TOTAL LOAD PER PHASE: EXISTING ESTIMATED LOAD:		13500	13500	HI# 13500 / 120V = 112.5 AMPS	
NEW ADDED LOAD:		5022	5112	HI# 5112 / 120V = 42.6 AMPS	
TOTAL LOAD:		18522	18612	HI# 19590 / 120V = 155.1 AMPS	

PANELBOARD

B

SCHEDULE

MAINS: 100A MCB		LOAD-VA		LOCATION: SEE PLAN	
VOLTAGE: 120/240V, 1ϕ, 3W		MOUNTING: SURFACE (FIELD VERIFY WITH OWNER)		MIN. A.I.C.: 10,000	
TYPE: EATON, SQ. D OR EQUAL		CIRCUIT DESCRIPTION		CIRCUIT DESCRIPTION	
LIGHTS		RECEPT'S.		EVAP COOLER	
LIGHTS - EXTERIOR		SPACE		SPACE	
WALL HEATER		SPACE		SPACE	
FIRE ALARM PANEL		SPACE		SPACE	
SPARE		SPACE		SPACE	
TOTAL LOAD PER PHASE:		5022	5112	HI# 5112 / 120V = 42.6 AMPS	

ELECTRICAL DESIGN & CADD SERVICES INC.
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REVISIONS	BY
ELEC. CHANGES 8-19-2019	A.O.

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ARCHITECTURE & PLANNING

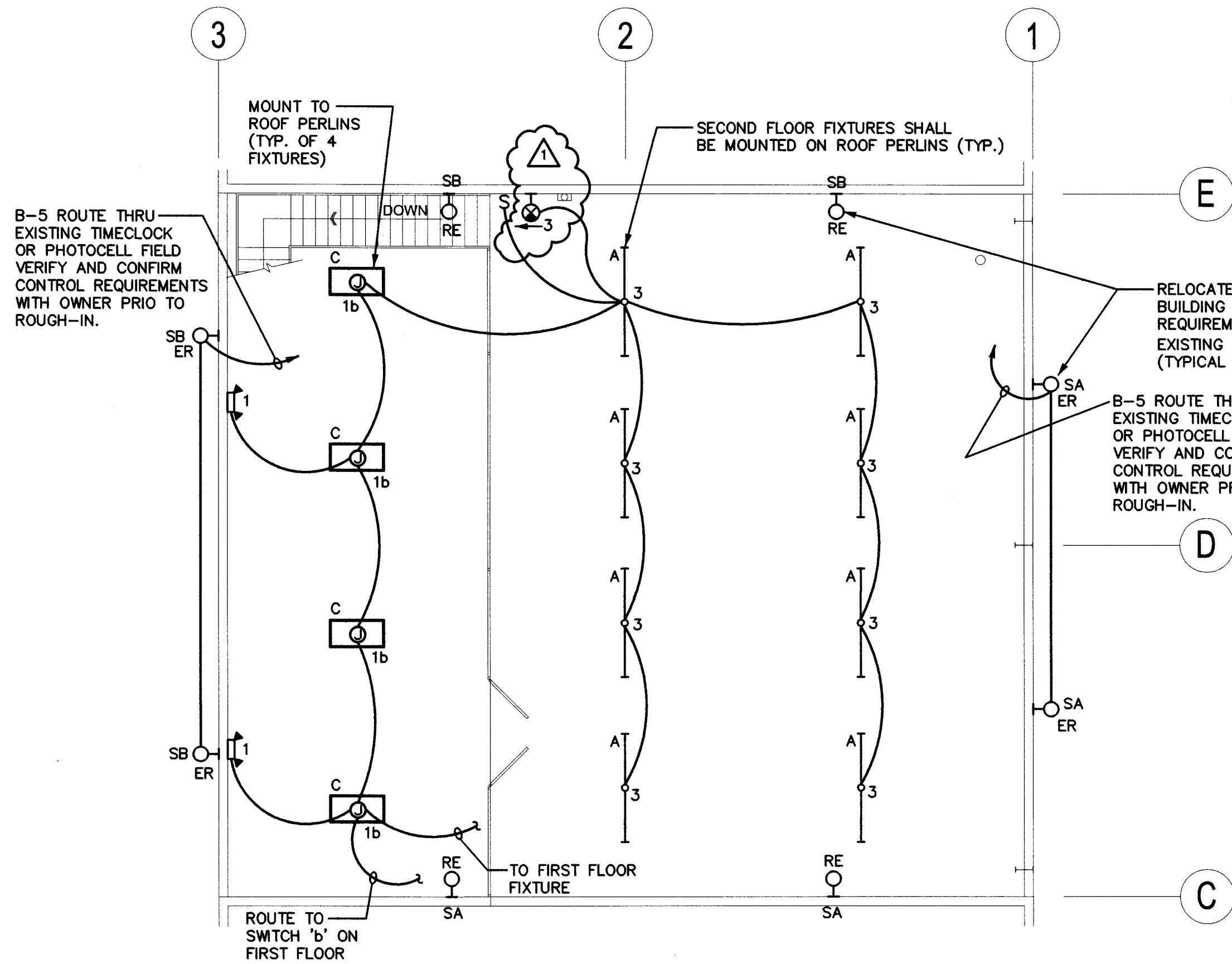
DRAWING: ELECTRICAL SITE PLAN, ONE-LINE DIAGRAM,
PANEL SCHEDULE & NOTES

PROJECT: Yavapai Mechanical Building Addition
5860 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297B

DRAWN BY R.A.
CHECKED BY A.O.
DATE June 23rd, 2019
JOB NO. 733
SHEET

E1.0



Second Floor Lighting Plan

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



GENERAL POWER NOTES:

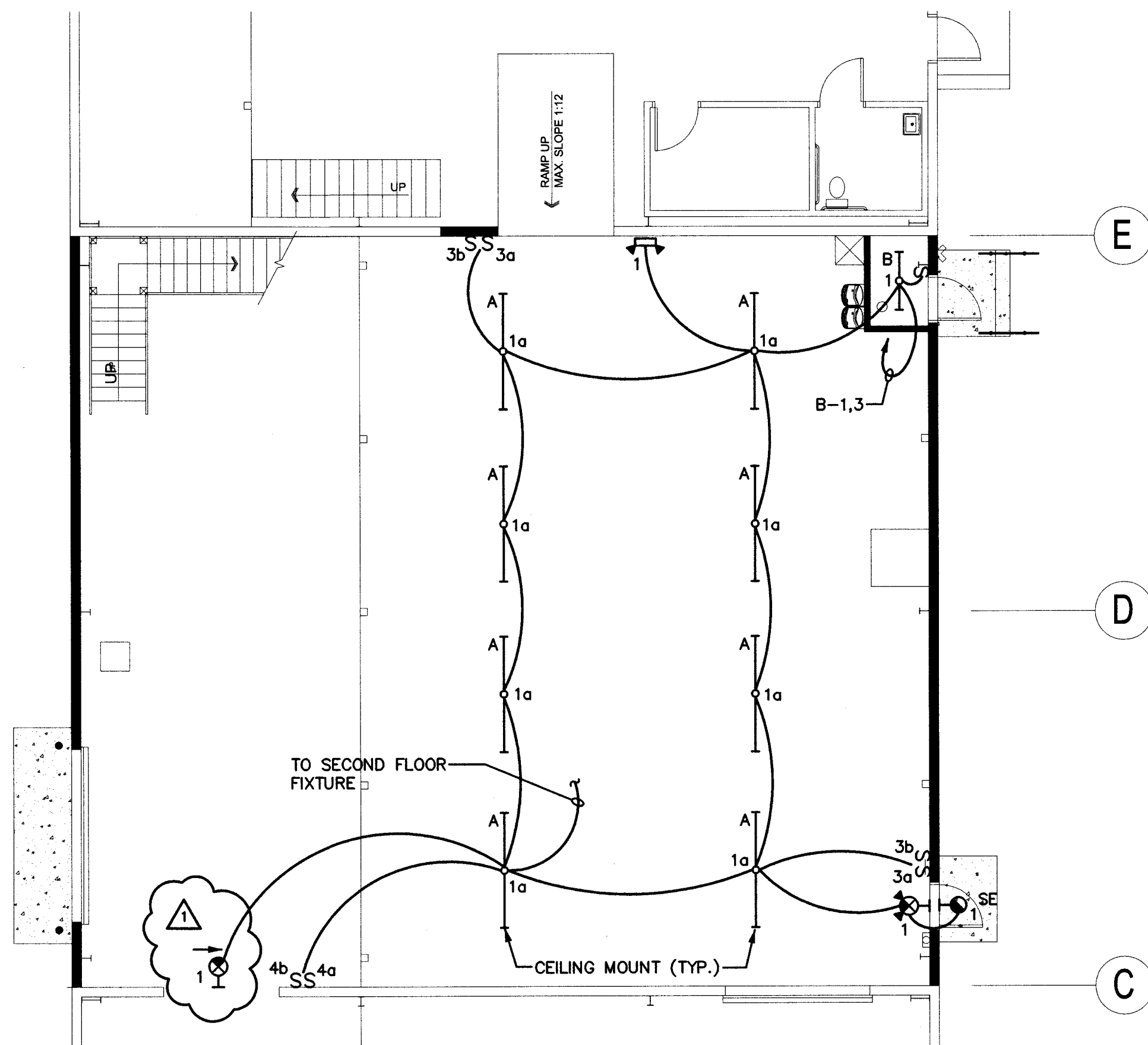
1. IF ELECTRICAL CONTRACTOR IS NOT CERTAIN OF MOUNTING HEIGHT OR LOCATION OF ANY ELECTRICAL EQUIPMENT AND OR DEVICES HE IS TO VERIFY ITEMS WITH ELECTRICAL ENGINEER, ARCHITECT OR OWNER PRIOR TO ROUGH-IN.
2. ALL RECEPTACLES AT RESTROOM LAVATORIES TO BE GFCI TYPE INSTALLED AT +48" A.F.F.
3. ALL RECEPTACLES IN WAREHOUSE AREA TO BE INSTALLED AT +48" A.F.F. GFCI TYPE.
4. EXTERIOR RECEPTS. TO BE WP, GFCI TYPE.
5. MC CABLE SHALL BE ALLOWED PER APPROVAL BY THE CITY PLAN CHECKER & INSPECTORS ROMAX IS NOT ALLOWED.

GENERAL LIGHTING NOTES:

1. 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.
2. NIGHT LIGHTS (NL), EMERGENCY & EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT.
3. MC CABLE SHALL BE ALLOWED PER APPROVAL BY THE CITY PLAN CHECKER & INSPECTORS ROMAX IS NOT ALLOWED.

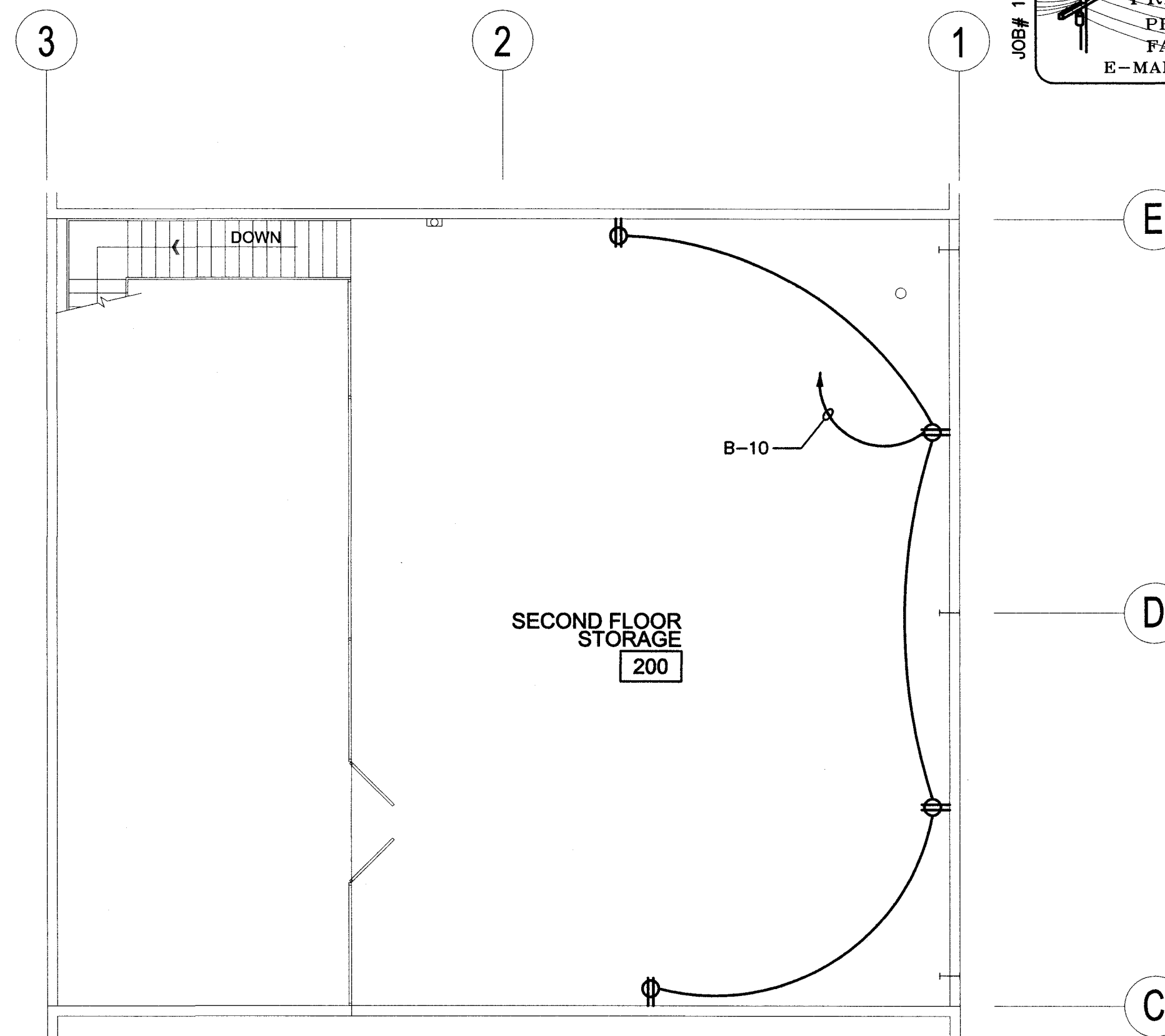
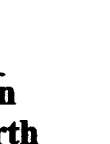
ABBREVIATIONS

- EX EXISTING LIGHT OR DEVICE TO REMAIN
RE EXISTING LIGHT OR DEVICE TO BE REPLACED OR RELOCATED EXTEND CIRCUITING AS REQUIRED IF NOT SHOWN.
ER REPLACED OR RELOCATED LIGHT OR DEVICE
RM REMOVED LIGHT OR DEVICE
A.F.F. ABOVE FINISHED FLOOR (ϕ OF OUTLET)
A.F.G. ABOVE FINISHED GRADE (ϕ OF OUTLET)
E.C. EMPTY CONDUIT
UNO UNLESS OTHERWISE NOTED
FBO FURNISHED BY OTHERS
NL NIGHT LIGHT
TYP TYPICAL



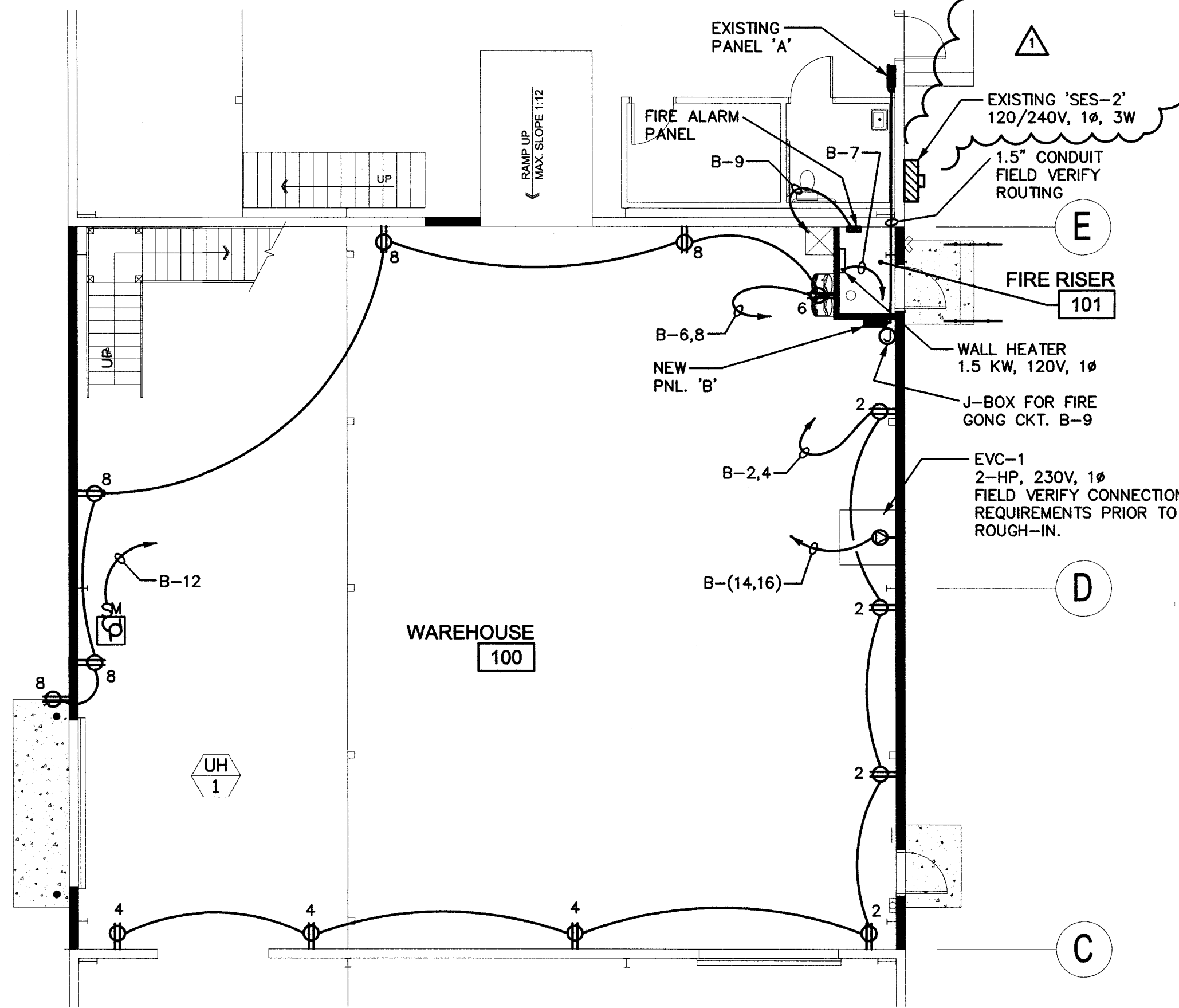
First Floor Lighting Plan

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



Second Floor Power Plan

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



First Floor Power Plan

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



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REVISIONS	BY
ELEC. CHANGES 8-19-2019	A.O.

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ANGLO OSSANNA
EXPIRES 12/30/2021

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ARCHITECTURE & PLANNING

DRAWING: Lighting & Power Floor Plan With Notes

PROJECT: Yavapai Mechanical Building Addition
5860 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297B

DRAWN BY	R.A.
CHECKED BY	A.O.
DATE	June 23rd, 2019
JOB NO.	733
SHEET	

E1.1