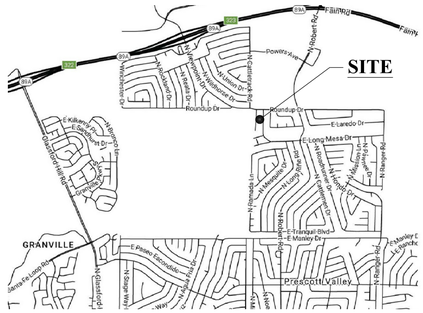
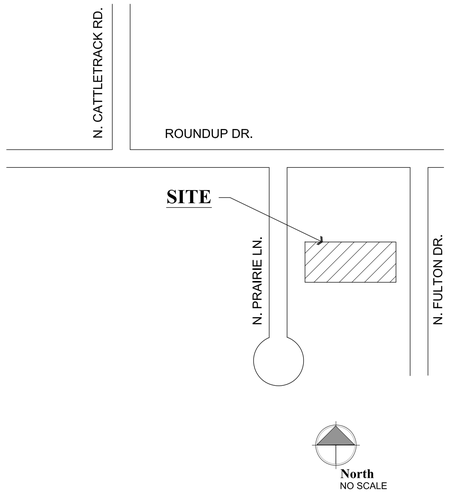
Yavapai Mechanical Commercial Building

PRESCOTT VALLEY, ARIZONA

Area Map



Vicinity Map



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	PH: 928-445-5192 Contact: Alan Kenson WAKA@cableone.net
JOBSITE ADDRESS:	5900 N. Fulton Dr. Prescott Valley, AZ	
PARCEL NUMBER:	103-33-297B	
ZONING:	C3 Commercial	
CONST. TYPE:	II-B	
OCCUPANCY:	F2	
PROPOSED BLDG:	4,400 S.F.	
BUILDING CODES:	2018 International Building Code 2018 International Plumbing Code 2018 International Mechanical Code 2018 International Fuel Gas Code 2018 International Fire Code 2017 National Electric Code 2010 ADA Standards for Accessible Design	
PARKING REQUIREMENTS:	MANUFACTURING & INDUSTRIAL PARKING = 1 PER 2 EMPLOYEES REQUIRED TOTAL EMPLOYEES FOR ALL BUILDINGS COMBINED = 28 PARKING REQUIRED: 14 SPACES	

Sheet Index

Deferred Submittals

Graphic Standards

- EXISTING DOOR
- PROPOSED DOOR
- NORTH ARROW INDICATOR (North)
- DETAIL DESIGNATOR (NUMBER / SHEET)
- BUILDING SECTION DESIGNATOR (LETTER / SHEET)
- GRID LINE DESIGNATOR
- REVISION DESIGNATOR (NUMBER)
- ELEVATION DESIGNATOR (#/SHEET)
- DESCRIPTIVE NOTE DESIGNATOR
- ROOM NUMBER / FINISH DESIGNATOR
- DOOR NUMBER DESIGNATOR (#)
- DOOR TYPE DESIGNATOR (LETTER)
- WINDOW TYPE DESIGNATOR (LETTER)
- WALL TYPE DESIGNATOR

Project Description

YAVAPAI MECHANICAL INTENDS TO DEMOLISH AN EXISTING 1,200 S.F. BUILDING AND CONSTRUCT A NEW BUILDING TO REPLACE IT. THE PROPOSED BUILDING WILL BE A STEEL STRUCTURE WITH 4400 S.F. UNDER ROOF. UNIT HEATERS AND EVAPORATIVE COOLING WILL ALSO BE PROVIDED IN THE BUILDING.

Architect:

W. Alan Kenson & Associates, P.C.

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ARCHITECTURE & PLANNING

Mar 17, 2020 - 8:34am

REVISIONS	BY
	LO

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REGISTERED ARCHITECT CERTIFICATE NO. 25646 W. ALAN KENSON Date Signed 03/03/20 ARIZONA EXPIRES: 6/30/21

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ARCHITECTURE & PLANNING

DRAWING: Cover Sheet

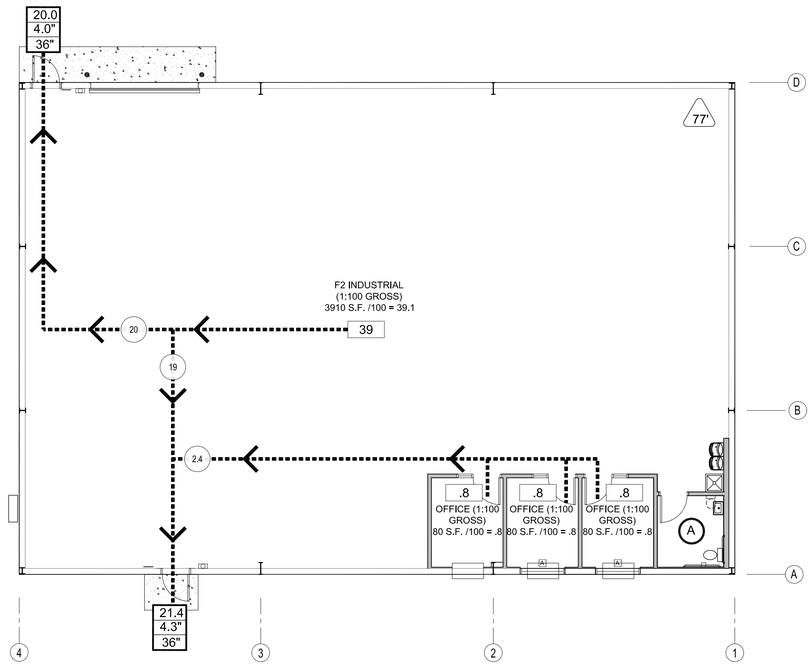
PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	March 3rd, 2020
JOB NO.	746
SHEET	CS1

Plumbing Calculations

	OCCUPANCY CLASSIFICATION	OCCUPANCY COUNT	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK
TOTAL REQUIRED	FACTORY & INDUSTRIAL	41	1	1	1	1
TOTAL PROVIDED			1	1	2	1



Egress Legend:

- EXIT ACCESS
- (A) ACCESSORY USE (NO OCCUPANCY)
- [XX] ROOM OCCUPANCY LOAD
- (XX) SUBTOTAL OCCUPANCY LOAD
- [XX] OCCUPANCY TOTAL
- [XX] REQUIRED EXIT WIDTH (FACTOR = 0.2)
- [XX] PROVIDED EXIT WIDTH
- <#> WORST CASE TRAVEL DISTANCE

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
INDUSTRIAL	100 GROSS
OFFICE	100 GROSS

Occupant load

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

OFFICE AREA:	240 SQ. FT.	2.4 OCCUPANTS
INDUSTRIAL:	3,910 SQ. FT	39 OCCUPANTS
TOTAL:	4,104 SQ. FT.	41.4 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

1. ACCESS TO THESE FACILITIES SHALL BE AT PRIMARY ENTRANCES.
2. THE SLOPE OF PUBLIC WALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 2%.
3. WALKING SURFACES GREATER THAN 2% SHALL BE SLIP RESISTANT.
4. PROVIDE A 44"x60" MINIMUM LANDING ON THE STRIKE SIDE OF THE ENTRANCE DOOR WITH 44" MINIMUM WIDTH IN THE DIRECTION OF TRAVEL.
5. WALLS SHALL EXTEND 18" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARDS THE OCCUPANT.
6. RAMPS SHALL HAVE A NON-SLIP SURFACE.
7. RAMPS SHALL BE A MINIMUM OF 36" WIDE.
8. 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.
9. 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.
10. MAXIMUM EFFORT TO OPERATE A DOOR SHALL NOT EXCEED 5 POUNDS.
11. THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE.
12. 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.)

A1 Occupancy / Egress First Floor Plan

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

Plan North

Mar 03, 2020 - 1:27pm

REVISIONS	BY

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REGISTERED ARCHITECT
CERTIFICATE NO.
25646
W. ALAN KENSON
Date Signed 03/03/20
ARIZONA
EXPIRES: 6/30/21

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F 928-443-5815 Prescott, AZ 86304
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ARCHITECTURE & PLANNING

DRAWING: Occupancy / Egress Plans and Code Summary

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

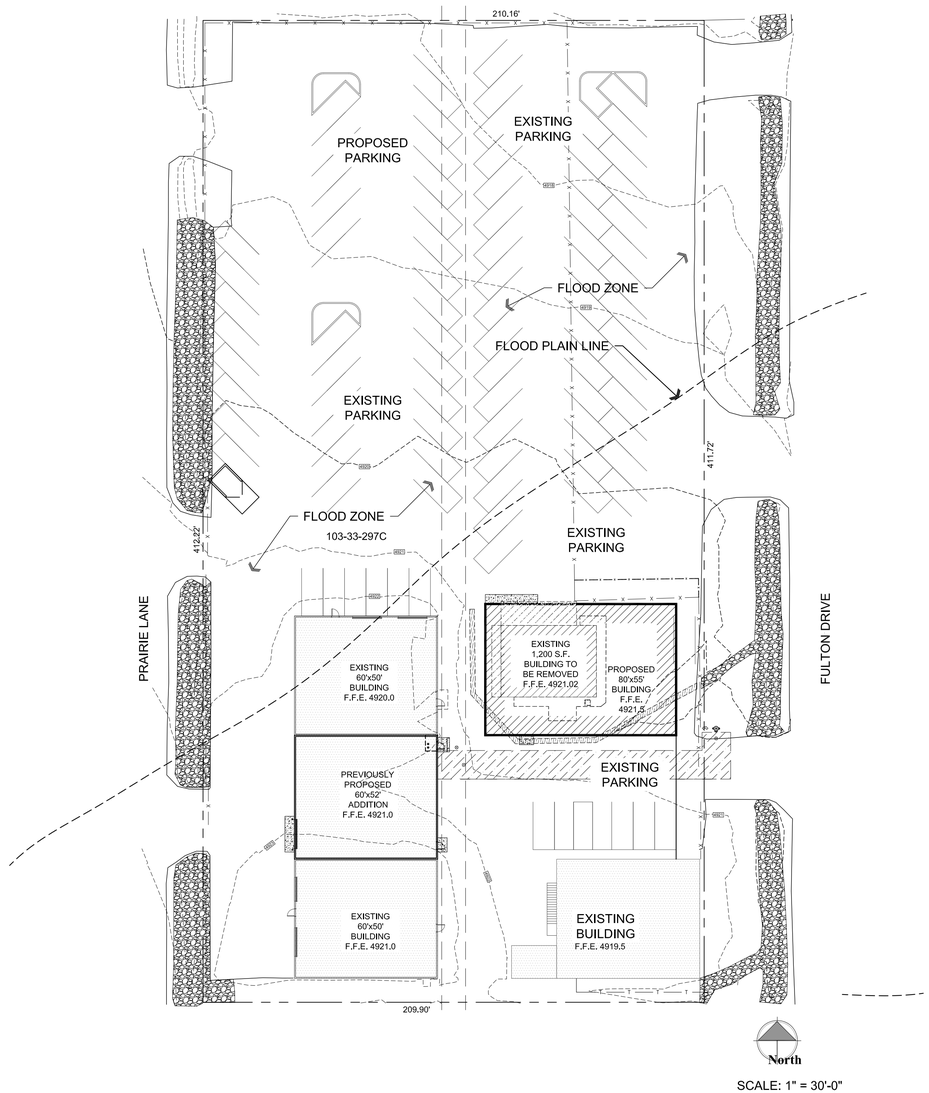
DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: March 3rd, 2020
JOB NO.: 746
SHEET

CS2

Yavapai Mechanical Building Addition

CIVIL COVER SHEET

Site Map



SCALE: 1" = 30'-0"

Project Information

OWNER:	Yavapai Mechanical 5900 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@cableone.net
GEOTECHNICAL:	Engineering & Testing Consultants 417 N. Arizona Street Prescott, AZ 86301	(928-778-9001) Contact: Rick Kelley rick@etcaz.com
PROJECT ADDRESS:	5900 N. Fulton Dr. Prescott Valley, AZ	
PARCEL #:	103-33-297C	
ACREAGE:	1.99 Acres	
OCCUPANCY:	Fabrication and Manufacturing	

Sheet Index

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

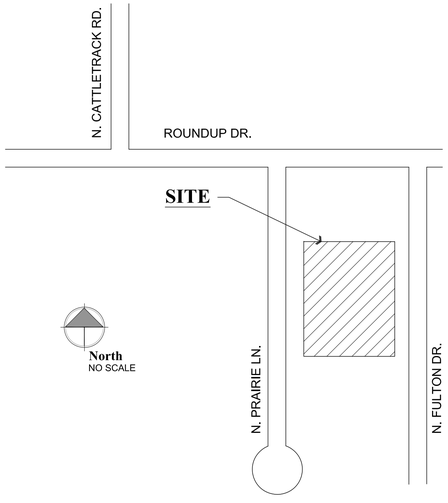
CALL TWO WORKING DAYS BEFORE YOU DIG

1-800-STAKE-IT

1-800-782-5348

(OUTSIDE MARICOPA COUNTY)

Site / Vicinity Map



Approval

Approved By

Town of Prescott Valley Date

Mar 04, 2020 - 8:17am

REVISIONS	BY

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Date Signed 03/03/20
ARIZONA
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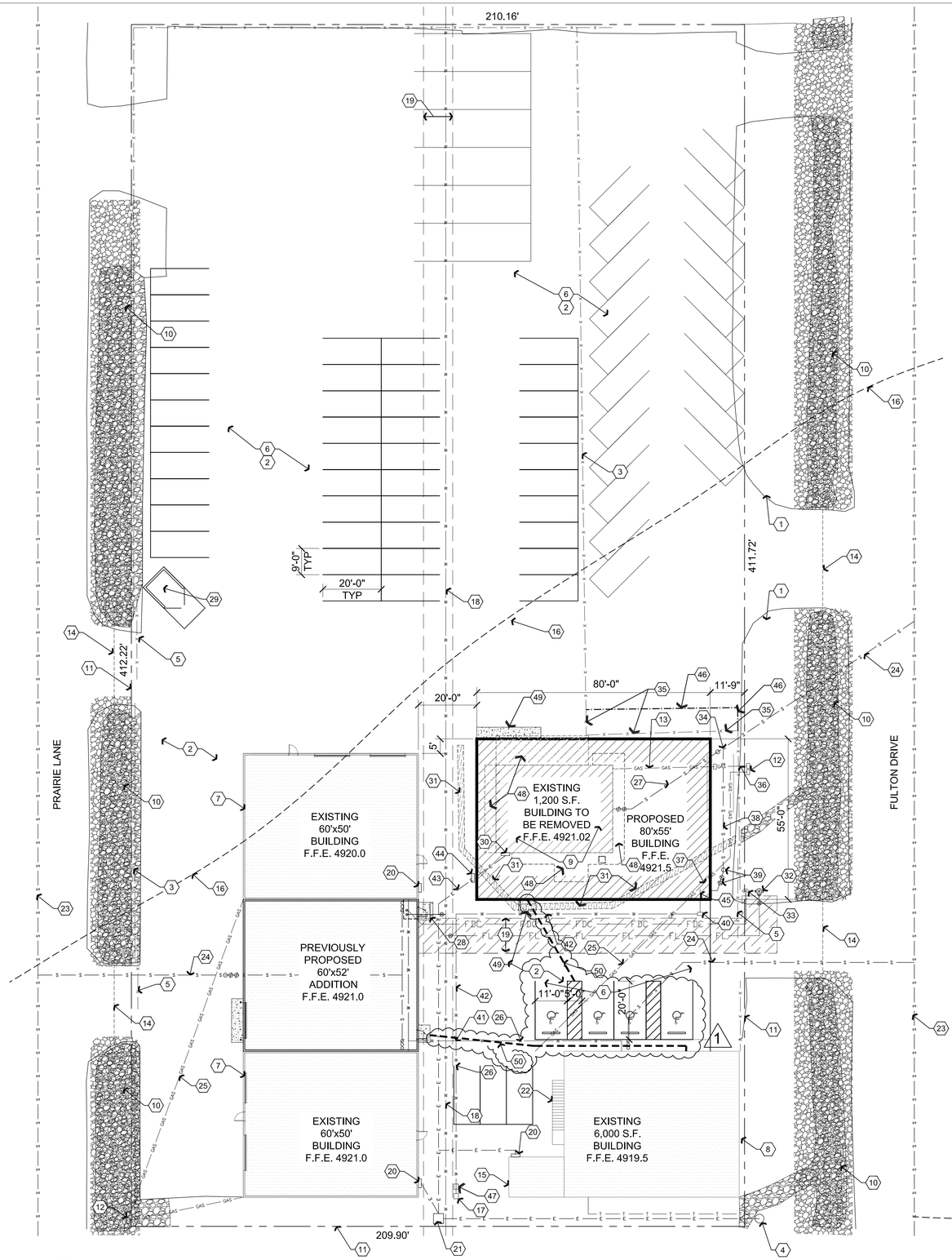
ARCHITECTURE & PLANNING

DRAWING: Civil Cover Sheet

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	March 3rd, 2020
JOB NO.	746
SHEET	C1.0



Parking Calc's

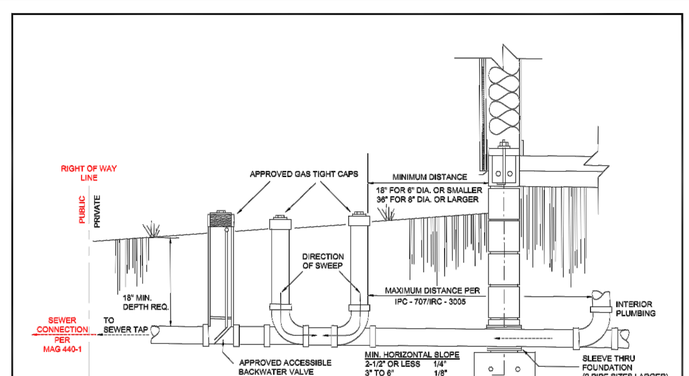
PARKING SPACES REQUIRED: 1 PER 2 EMPLOYEES (MANUFACTURING AND INDUSTRIAL)

EMPLOYEES FOR ENTIRE SITE: 28
PARKING SPACES REQUIRED: 14
PARKING SPACES PROVIDED: 89

Descriptive Keynotes

1. EXISTING LANDSCAPING.
2. EXISTING ASPHALTIC PAVEMENT.
3. EXISTING CHAIN LINK FENCE.
4. ELECTRIC POWER POLE.
5. EXISTING SLIDING GATE.
6. EXISTING PARKING LOT.
7. EXISTING 3,000 S.F 1-STORY BUILDING.
8. EXISTING 6,000 S.F 2-STORY OFFICE BUILDING.
9. EXISTING 1,200 S.F. 1-STORY BUILDING TO BE REMOVED.
10. EXISTING RIP RAP W/ DRAINAGE CHANNEL
11. PROPERTY LINE.
12. EXISTING NATURAL GAS METER.
13. REMOVE PORTION OF EXISTING NATURAL GAS LINE.
14. EXISTING CULVERT.
15. EXISTING MECHANICAL ROOM.
16. APPROXIMATE FLOOD PLAIN BOUNDARY.
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 SEWER LINE.
25. EXISTING NATURAL GAS LINE.
26. EXISTING WATER LINE.
27. ABANDON PORTION OF EXISTING WASTE LINE.
28. BELOW GRADE DUCTILE IRON FIRE LINE.
29. TRASH DUMPSTER.
30. EXISTING SES TO BE RELOCATED TO PROPOSED BUILDING.
31. EXISTING CONCRETE VALLEY GUTTER TO BE REMOVED.
32. EXISTING FIRE HYDRANT.
33. EXISTING FIRE DEPARTMENT CONNECTION.
34. POINT OF CONNECTION FOR SEWER TIE-IN.
35. EXISTING CHAIN LINK FENCE TO BE REMOVED AND RELOCATED BY OWNER, REFER TO KEYNOTE 46.
36. EXISTING NATURAL GAS LINE TO REMAIN.
37. FIELD LOCATE EXISTING NATURAL GAS LINE AND RELOCATE AS REQUIRED AROUND PROPOSED BUILDING FOUNDATION.
38. PROVIDE 3" SDR 35 WASTE LINE.
39. PROVIDE 3" BACKWATER VALVE AND 2-WAY CLEANOUT.
40. BELOW GRADE WATER SHUT OFF VALVE IN CONCRETE YARD BOX.
41. POINT OF CONNECTION FOR WATER TIE-IN.
42. PROVIDE 3/4" SCHEDULE 40 PVC WATERLINE FROM EXISTING WATER METER / WATER YARD LINE.
43. EXISTING BELOW GRADE ELECTRIC LINE.
44. RELOCATED ELECTRICAL SERVICE ENTRANCE SECTION, REFER TO ELECTRICAL PLANS.
45. PROVIDE 3/4" COPPER WATER LINE INTO BUILDING, REFER TO PLUMBING PLANS.
46. RELOCATED CHAIN LINK FENCE BY OWNER.
47. EXISTING REDUCED PRESSURE BACKFLOW PREVENTION DEVICE.
48. EXISTING CONCRETE SLAB / SIDEWALK TO BE REMOVED BY OWNER.
49. PROVIDE CONCRETE SLAB, REFER TO ARCHITECTURAL REFERENCE FLOOR PLAN.
50. ACCESSIBLE ROUTE. (1)

GENERAL NOTE:
OWNER TO SAWCUT AND REMOVE ASPHALTIC PAVEMENT TO APPROXIMATELY 10'-0" AROUND PERIMETER OF PROPOSED BUILDING.



SEWER 2-WAY CLEANOUT & BACKFLOW PREVENTION

QUAD CITY STANDARD DETAIL	SEWER CLEANOUT - DOUBLE	REVISED: X/17	DETAIL No. 440PV-2

A1 Architectural / Utilities Site Plan

Scale: 1"=20'-0"

Plan North

Apr 24, 2020 - 9:14am

REVISIONS	BY
1 Town of PV COMMENTS 4/17/2020	LO

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REGISTERED ARCHITECT CERTIFICATE NO. 25646 W. ALAN KENSON Date Signed 04/03/20 ARIZONA EXPIRES: 6/30/21

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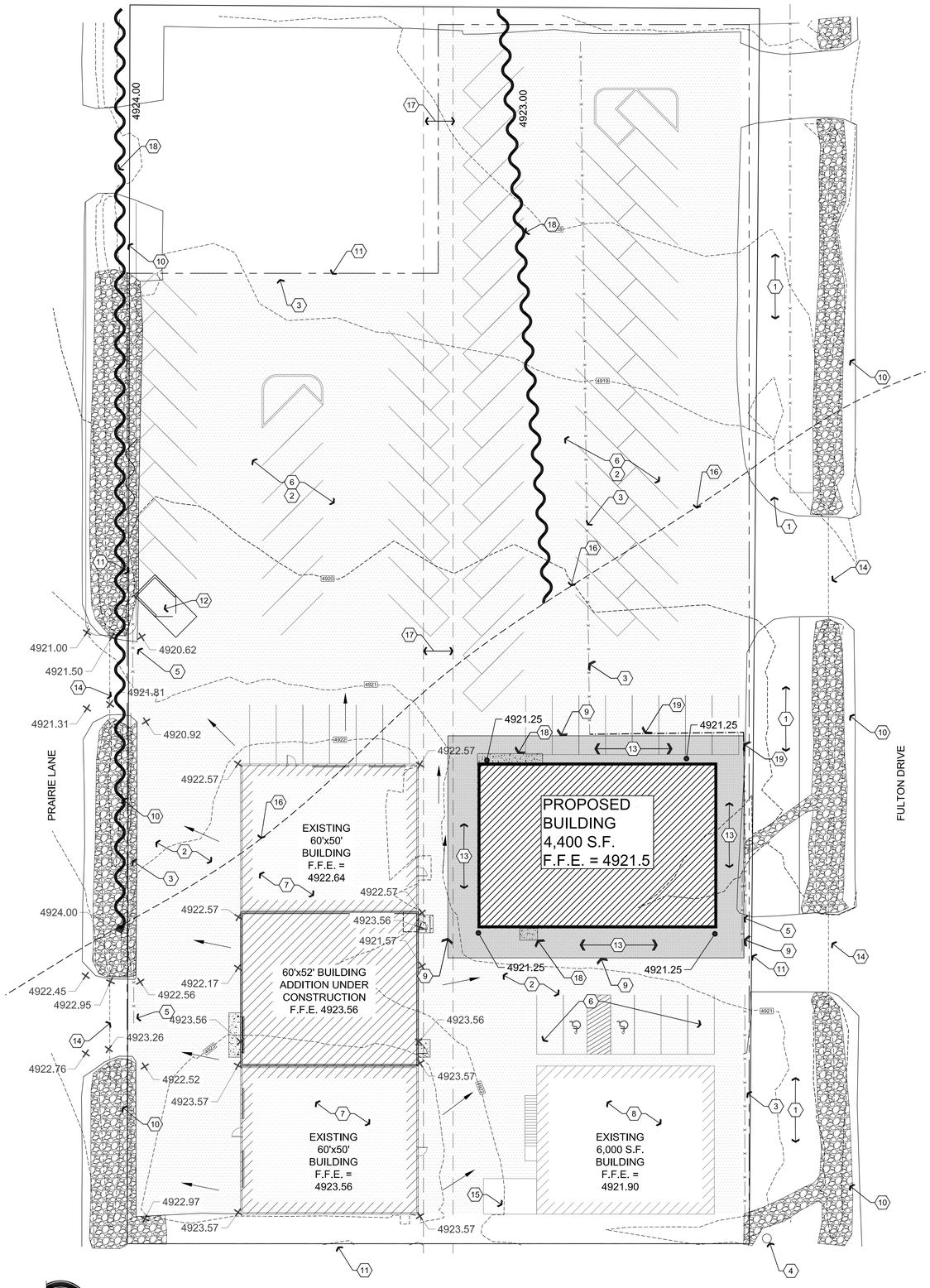
ARCHITECTURE & PLANNING

DRAWING: Architectural / Utilities Site Plan

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	March 3rd, 2020
JOB NO.	746
SHEET	C1.1



Grading and Drainage Plan

Scale: 1"=20'-0"

Plan North

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. APPROXIMATE LOCATION WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
10. EXISTING RIP RAP W/ DRAINAGE CHANNEL
11. PROPERTY LINE.
12. EXISTING TRASH DUMPSTER UNDER CONSTRUCTION.
13. PROVIDE 3" ASPHALTIC PAVEMENT OVER 5" COMPACTED ABC OVER 8" COMPACTED SUBGRADE.
14. EXISTING CULVERT.
15. EXISTING MECHANICAL ROOM.
16. FLOOD PLAIN BOUNDARY.
17. EXISTING UTILITIES EASEMENT.
18. PROVIDE CONCRETE SLAB / SIDEWALK, REFER TO ARCHITECTURAL SITE PLAN.
19. NEW CHAIN LINK FENCE BY OWNER, REFER TO ARCHITECTURAL SITE PLAN.

Legend

- TYPICALLY INDICATES NEW ASPHALTIC PAVEMENT
- 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

NOTE:
- CUT WILL BE 0 CUBIC YARDS
- FILL WILL BE ±45 CUBIC YARDS

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: Grading and Drainage Plan

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5900 N. Fulton Dr.
Prescott Valley, AZ 86314

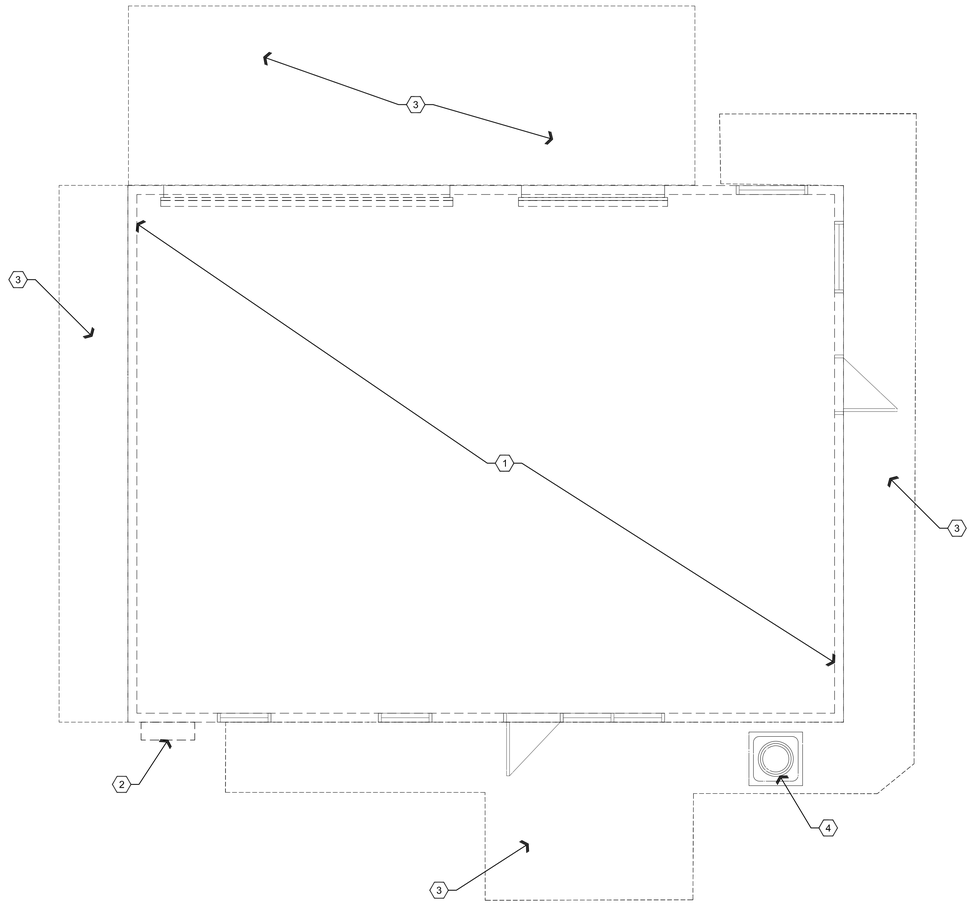
APN: 103-33-297C

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	March 3rd, 2020
JOB NO.	746
SHEET	C1.2

Mar 03, 2020 - 1:28pm

Descriptive Keynotes

1. OWNER TO REMOVE/DEMOLISH EXISTING BUILDING IN ITS ENTIRETY.
2. OWNER TO REMOVE AND RELOCATE EXISTING ELECTRICAL SERVICE ENTRANCE SECTION,
3. OWNER TO REMOVE EXISTING CONCRETE SLAB, TYPICAL.
4. OWNER TO REMOVE EXISTING CONDENSING UNIT.



A1 Existing / Demolition Plan

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

Plan North

Mar 03, 2020 - 1:28pm

REVISIONS	BY

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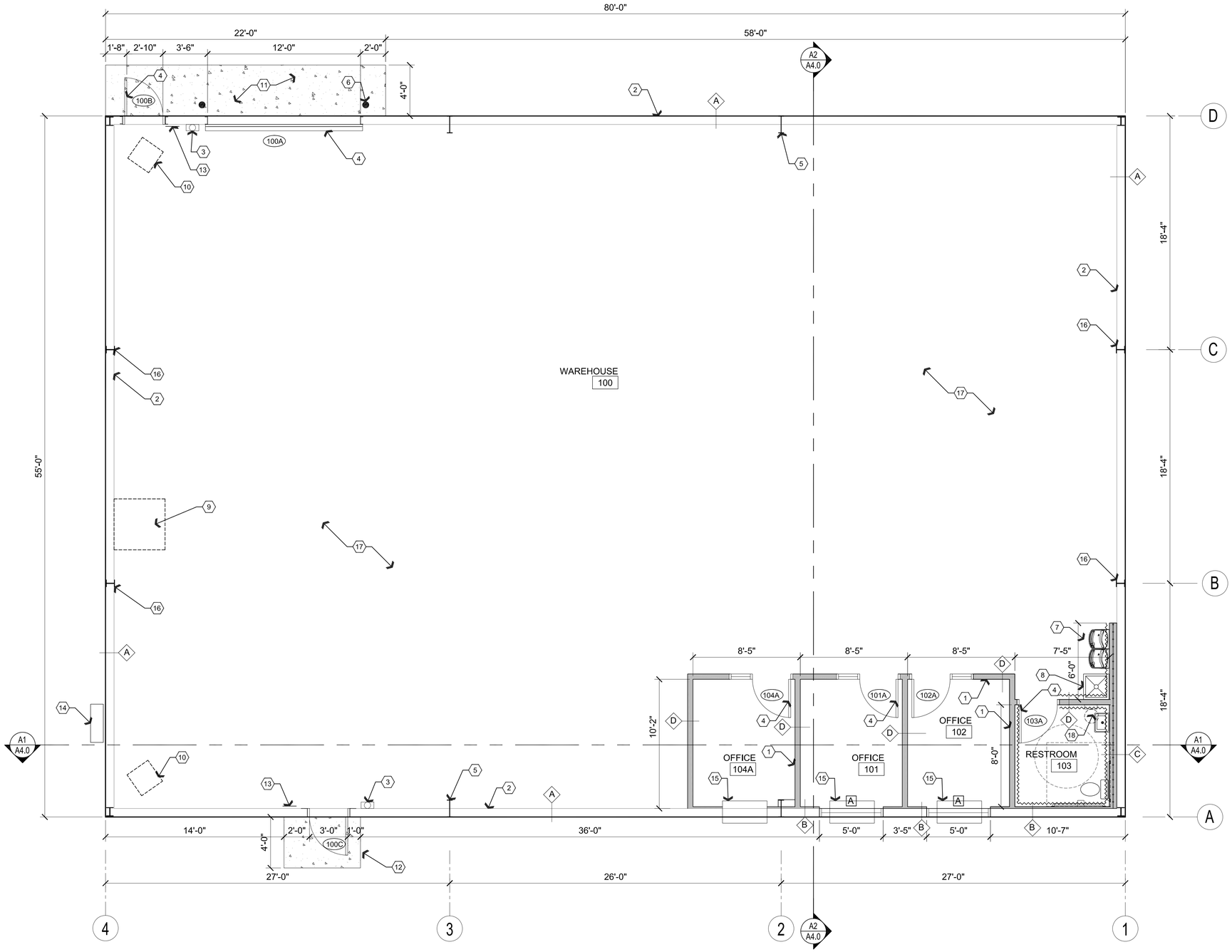

A1 First Floor Reference / Wall Types Plan

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

Plan North

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. PROVIDE STEEL COLUMN, REFER TO STRUCTURAL PLANS, TYPICAL.
6. PROVIDE 6'-0" LONG 4" DIAMETER, CONCRETE FILLED, PROTECTIVE STEEL BOLLARDS, EMBEDDED 2'-0" BELOW GRADE INTO CONCRETE FOOTING, TYPICAL AT OVERHEAD DOOR.
7. PROVIDE ELECTRIC DRINKING FOUNTAIN, REFER TO PLUMBING PLANS.
8. PROVIDE MOP SINK, REFER TO PLUMBING PLANS.
9. PROVIDE SIDEWALL EVAPORATIVE COOLER @ 12'-0" A.F.F., REFER TO MECHANICAL PLANS.
10. PROVIDE UNIT HEATER @ 12'-0" A.F.F., REFER TO MECHANICAL PLANS.
11. PROVIDE 5" THICK CONCRETE APRON W/ #4s @ 3'-0" O.C. EACH WAY OVER 8" COMPACTED A.B.C. PROVIDE 8" TURNDOWN AT PERIMETER.
12. PROVIDE 4" THICK CONCRETE LANDING OVER 8" COMPACTED ABC. PROVIDE 8" TURNDOWN AT PERIMETER.
13. 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.
14. RELOCATED ELECTRICAL SERVICE ENTRANCE SECTION, REFER TO ELECTRICAL PLANS.
15. PTAC HVAC UNIT, REFER TO MECHANICAL PLANS.
16. PROVIDE STEEL COLUMN, REFER TO STRUCTURAL PLANS.
17. PROVIDE 5" THICK CONCRETE SLAB W/ #4s @ 3'-0" O.C. EACH WAY OVER COMPACTED ABC.
18. PROVIDE WATER HEATER ABOVE THE BATHROOM, REFER TO MECHANICAL PLANS AND ELECTRICAL PLANS.

Wall Types Legend

- A — 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.
- B — EXTERIOR METAL BUILDING WALL: PROVIDE EXTERIOR METAL BUILDING SIDING, 26 GAUGE, 'PBR' PANELS OVER 8" HORIZONTAL GIRTS BETWEEN STEEL COLUMNS. PROVIDE 5/8" GPDW ON EXPOSED INTERIOR SIDE OF VERTICAL 1-5/8", 25 GAUGE METAL STUDS AT 2'-0" O.C. PROVIDE R-19 BATT INSULATION.
- C — EXTERIOR METAL BUILDING WALL: PROVIDE EXTERIOR METAL BUILDING SIDING, 26 GAUGE, 'PBR' PANELS OVER 8" HORIZONTAL GIRTS BETWEEN STEEL COLUMNS. PROVIDE 5/8" GPDW ON EXPOSED INTERIOR SIDE OF VERTICAL 6", 25 GAUGE METAL STUDS AT 2'-0" O.C. PROVIDE R-19 BATT INSULATION.
- D — 3-5/8" METAL STUD WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW EACH SIDE.
- 48" HIGH FRP

REVISIONS	BY

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REGISTERED ARCHITECT
CERTIFICATE NO.
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W. ALAN KENSON
Date Signed 03/03/20
ARIZONA
EXPIRES: 6/30/21

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ARCHITECTURE & PLANNING

DRAWING: Reference Floor Plan

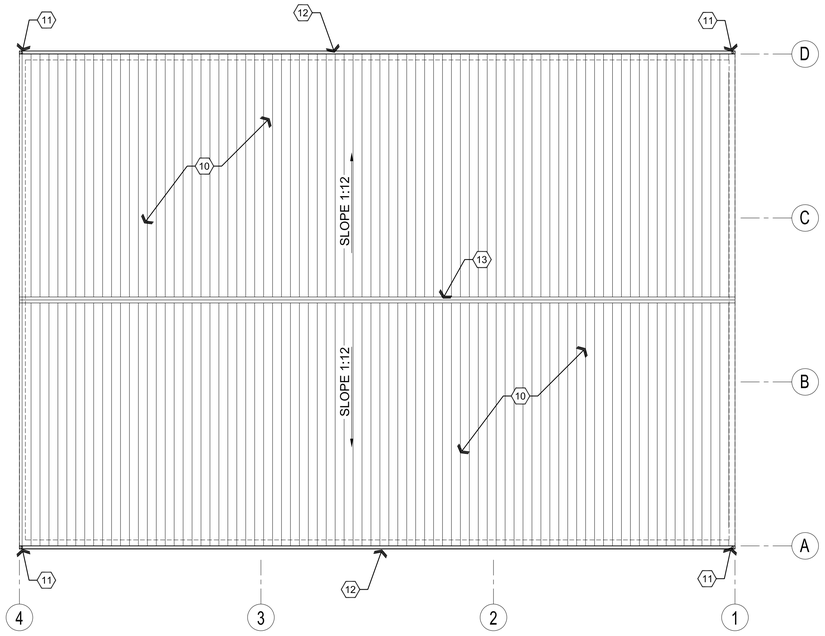
PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: March 3rd, 2020
JOB NO.: 746
SHEET

A2.0

Mar 03, 2020 - 1:29pm



A2 Roof Plan

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

Plan North

Roof Drain Leader Sizes:

ROOF AREA : 2,200 S.F. EACH HALF

4" RAINFALL = 91.52 GPM = 4" STORM DRAIN PIPE SIZE WITH HORIZONTAL DRAIN SLOPING 1/8"

(1) 4" VERTICAL REQUIRED EACH HALF OF ROOF

(2) 3"x4" LEADERS PROVIDED EACH HALF OF ROOF

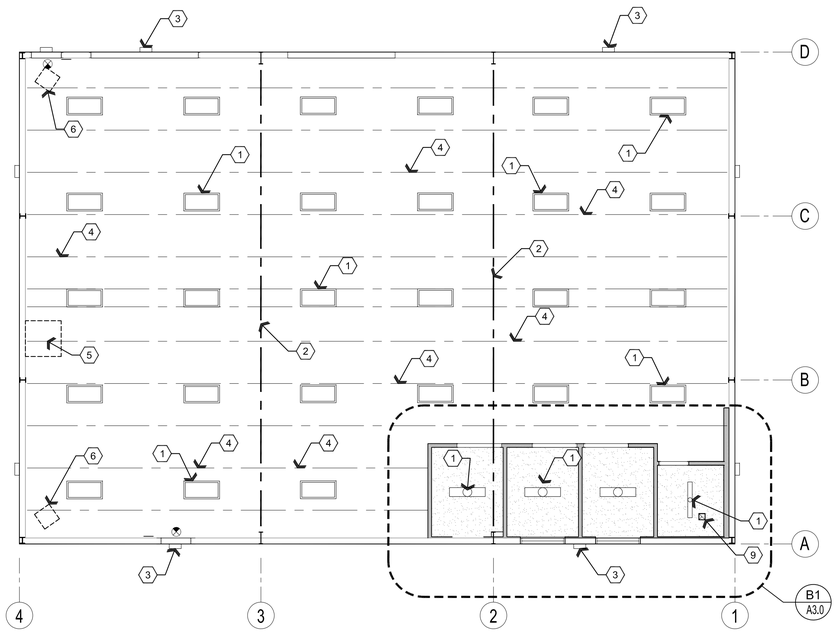
*PER 2018 IPC SECTION 1106 (TABLE 1106.2 &1106.3)

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.
7. NOT USED.
8. NOT USED.
9. EXHAUST FAN, REFER TO MECHANICAL PLANS, TYPICAL.
10. PROVIDE 'PBR' PANEL METAL ROOF, REFER TO MATERIALS SCHEDULE. M-1
11. PROVIDE SHEET METAL DOWNSPOUT, REFER TO MATERIALS SCHEDULE. M-4
12. PROVIDE SHEET METAL GUTTER, REFER TO MATERIALS SCHEDULE. M-3
13. PROVIDE RIDGE CAP, REFER TO MATERIALS SCHEDULE. M-2
14. PROVIDE 6" 20 GAUGE METAL JOISTS 2'-0" O.C.

Legend

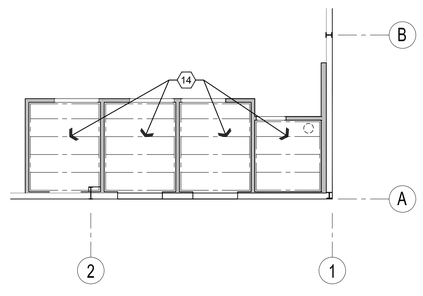
- GPDW CEILING
- 2'X4' LED LIGHT FIXTURE
- EMERGENCY EXIT SIGN WITH BATTERY BACK UP
- SURFACE MOUNTED LIGHT FIXTURE
- EXHAUST FAN



A1 Reflected Ceiling Plan

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

Plan North



B1 Ceiling Framing Plan

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

Plan North

REVISIONS	BY

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ARCHITECTURE & PLANNING

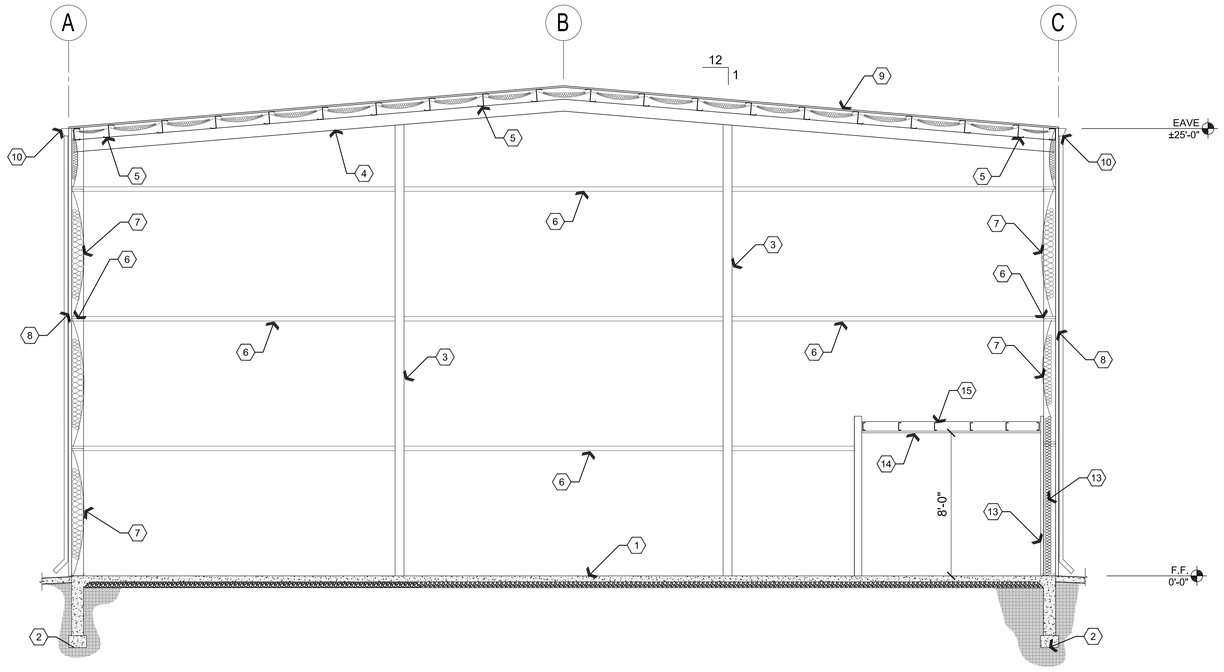
DRAWING: Reflected Ceiling Plan, Roof Plan and Ceiling Framing Plan

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

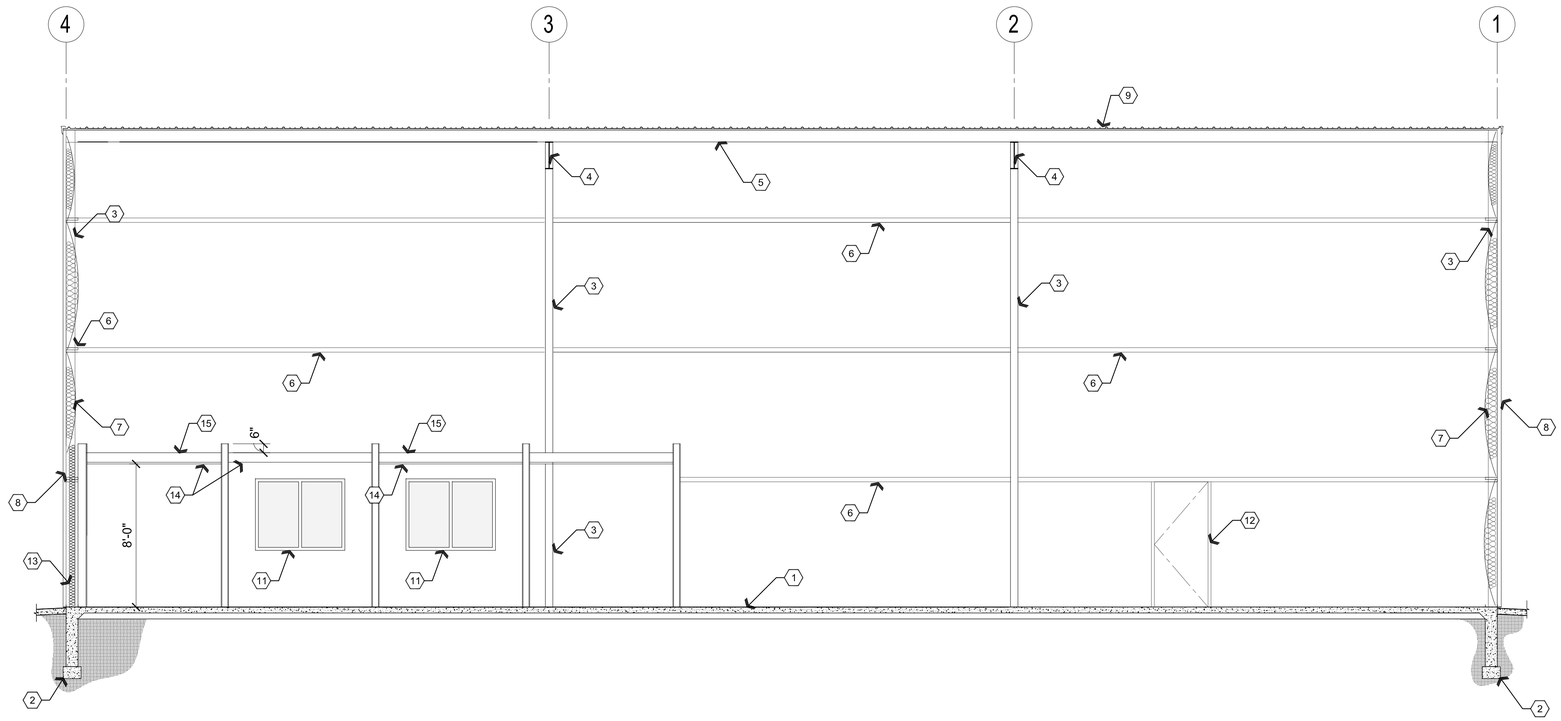
DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	March 3rd, 2020
JOB NO.	746
SHEET	A3.0

Mar 03, 2020 - 1:29pm



A2 Building Section

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



A1 Building Section

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

Descriptive Keynotes

1. PROVIDE 5" CONCRETE SLAB OVER 4" COMPACTED A.B.C., SAWCUT SLAB AT APPROXIMATELY 12'-0" O.C. IN BOTH DIRECTIONS. REFER TO STRUCTURAL PLANS.
2. PROVIDE CONCRETE FOOTING. REFER TO STRUCTURAL PLANS.
3. PROVIDE STEEL COLUMN. REFER TO STRUCTURAL PLANS.
4. PROVIDE STEEL BEAM. REFER TO STRUCTURAL PLANS.
5. PROVIDE ROOF PURLIN, TYPICAL. REFER TO STRUCTURAL PLANS.
6. PROVIDE STEEL GIRT, TYPICAL. REFER TO STRUCTURAL PLANS.
7. 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. PROVIDE WINDOW, REFER TO REFERENCE FLOOR PLAN AND DOOR AND WINDOW TYPES.
12. PROVIDE DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
13. PROVIDE R-19 BATT INSULATION.
14. PROVIDE 5/8" GPDW CEILING. REFER TO REFLECTED CEILING PLAN.
15. METAL CEILING FRAMING, REFER TO CEILING FRAMING PLAN.

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: Building Sections

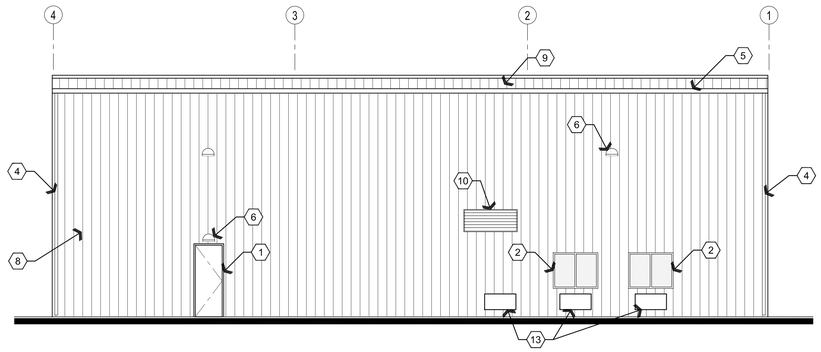
PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: March 3rd, 2020
JOB NO.: 746
SHEET:

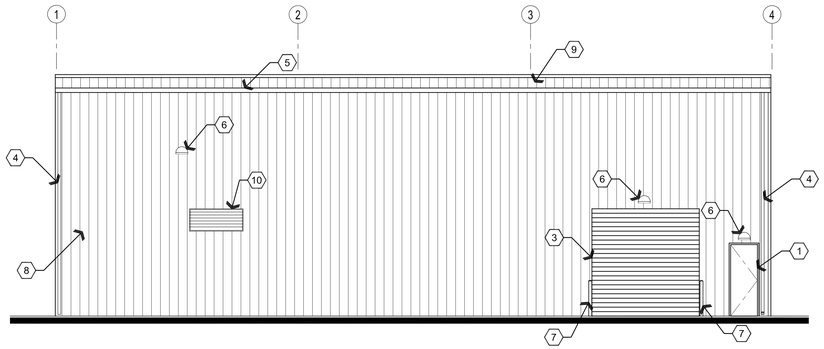
A4.0

Mar 03, 2020 - 1:29pm



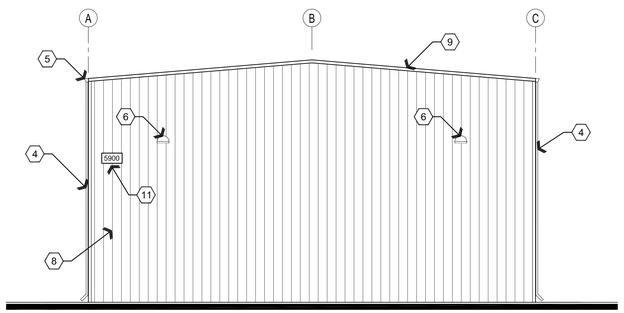
A3 South Elevation

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



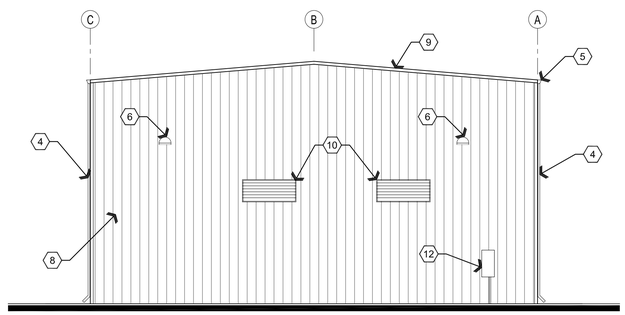
A2 North Elevation

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



A1 East Elevation

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



B1 West Elevation

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

Descriptive Keynotes

1. PROVIDE DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
2. PROVIDE WINDOW, REFER TO REFERENCE FLOOR PLAN AND WINDOW TYPES.
3. PROVIDE ROLL-UP DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
4. PROVIDE SHEET METAL DOWNSPOUT, REFER TO MATERIALS SCHEDULE. M-4
5. PROVIDE SHEET METAL GUTTER, REFER TO MATERIALS SCHEDULE. M-3
6. PROVIDE LIGHT FIXTURE, REFER TO ELECTRICAL PLANS.
7. 4" STEEL CONCRETE FILLED BOLLARDS, 4'-0" ABOVE CONCRETE WITH 2'-0" EMBEDDED INTO CONCRETE FOOTING BELOW, TYPICAL.
8. PROVIDE METAL WALL PANEL. REFER TO , WALL TYPES PLAN AND MATERIALS SCHEDULE. M-5
9. PROVIDE METAL ROOF PANELS, REFER TO MATERIALS SCHEDULE. M-1
10. PROPOSED EVAPORATIVE COOLER LOUVER, REFER TO MECHANICAL PLANS.
11. PROVIDE ADDRESS NUMBERS.
12. RELOCATED ELECTRICAL SERVICE ENTRANCE SECTION.
13. PROVIDE PTAC UNIT, REFER TO MECHANICAL PLANS.

REVISIONS	BY

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ARCHITECTURE & PLANNING

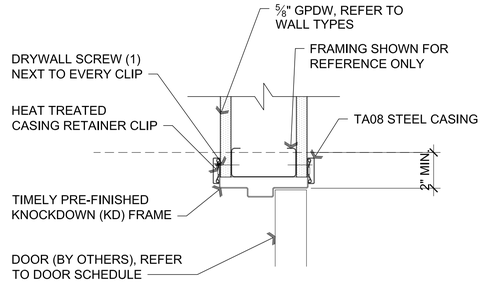
DRAWING: Exterior Elevations

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

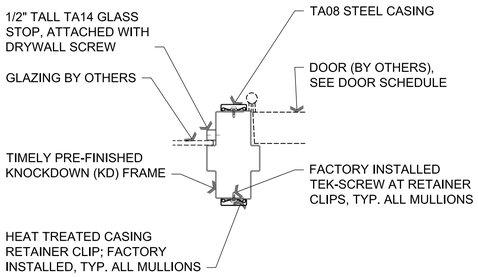
DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	March 3rd, 2020
JOB NO.	746
SHEET	A5.0

Mar 03, 2020 - 1:29pm



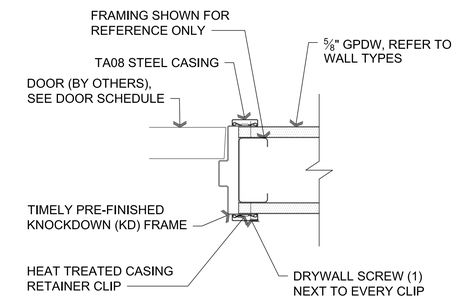
A4 Typical Header

SCALE: 3" = 1'-0"



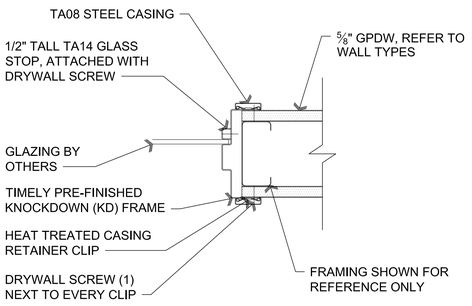
A3 Typical Mullion Hinge Side

SCALE: 3" = 1'-0"



A2 Typical Jamb -Strike

SCALE: 3" = 1'-0"



A1 Typical Jamb W/ Glazing

SCALE: 3" = 1'-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 BUILDINGS
M-2	RIDGE CAP	ROOF	MBCI	SIGNATURE 200, TO MATCH EXISTING BUILDINGS
M-3	METAL RAIN GUTTER	EXTERIOR	MBCI	26 GAUGE, SIGNATURE 200 PRE-PAINTED TO MATCH EXISTING BUILDINGS
M-4	3"x4" METAL DOWNSPOUT	EXTERIOR	MBCI	26 GAUGE, SIGNATURE 200 PRE-PAINTED TO MATCH EXISTING BUILDINGS
M-5	EXTERIOR METAL WALL PANEL	EXTERIOR WALLS	MBCI	PBR PANEL 26 GAUGE, SIGNATURE 200 PRE-PAINTED TO MATCH EXISTING BUILDINGS

Door Schedule

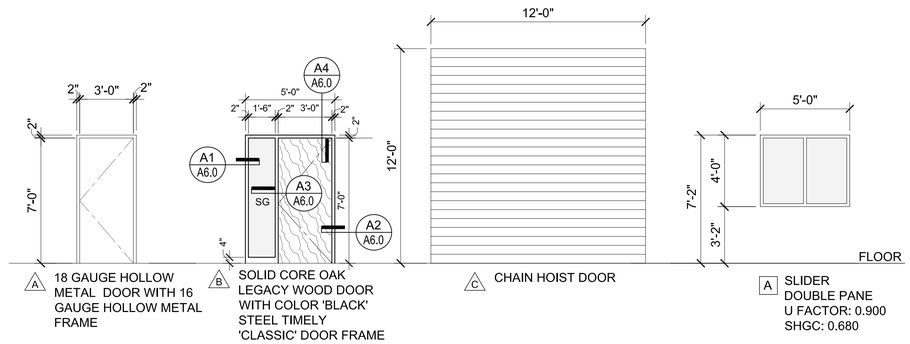
NO.	ROOM NAME	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE TYPE
100A	WAREHOUSE	12'-0"x12'-0"	C	STEEL	PAINT	STEEL	PAINT	03
100B	WAREHOUSE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
100C	WAREHOUSE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
101A	OFFICE	3'-0"x7'-0"	B	SCWD	STAIN	STEEL	PAINT	02
102A	OFFICE	3'-0"x7'-0"	B	SCWD	STAIN	STEEL	PAINT	02
103A	RESTROOM	3'-0"x7'-0"	B	SCWD	STAIN	STEEL	PAINT	04
104A	OFFICE	3'-0"x7'-0"	B	SCWD	STAIN	STEEL	PAINT	02

NOTES:

1. ALL EXIT DOORS & HARDWARE SHALL COMPLY WITH THE 2012 I.B.C.
2. DOOR THRESHOLDS SHALL HAVE A MAX HEIGHT OF 1/2" FOR H.C. ACCESSIBILITY. THRESHOLD SHALL HAVE A MAXIMUM RISE OF 1/4" AND 1/2" RISE WHEN BEVELED WITH MAXIMUM 1:2 SLOPE.
3. ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING.
4. ALL INTERIOR DOORS SHALL BE OPERABLE FOR EMERGENCY EXITING PURPOSES WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE NOR EFFORT.
5. ALL GLAZING WITHIN 24" OF OPENINGS SHALL BE SAFETY GLASS.
6. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
7. DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. HARDWARE REQUIRED FOR DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISH FLOOR.
8. DOOR OPENING FORCE SHALL BE: 5lbf MAX INTERIOR HINGED, SLIDING OR FOLDING DOORS; FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.

Hardware Schedule

HW-01:	LEVER ENTRY LOCK, CHAIN STOP, WEATHER STRIP, THRESHOLD, DOOR BOTTOM, HINGES
HW-02	LEVER PRIVACY LOCK, WALL STOP, HINGES
HW-03	(CHAIN HOISTED ROLL-UP DOOR)



B1 Door and Window Types

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

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REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: Schedules

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	March 3rd, 2020
JOB NO.	746
SHEET	A6.0

GENERAL STRUCTURAL NOTES

(APPLY UNLESS NOTED OTHERWISE ON PLANS/DETAILS)

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 (5) 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: 2018 EDITION OF THE IBC WITH CITY/COUNTY AMENDMENTS.

   RISK CATEGORY = II

2. VERTICAL LOADS:

LOCATION	LIVE / SNOW LOAD	DEAD LOAD
ROOF	30 PSF	9 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
VERTICAL SHEAR TRANSFER ELEMENTS:	
X-BRACE(S)	R = 3.0
RIGID STEEL FRAME(S)	R = 3.0

4. WIND DESIGN PARAMETERS (STRENGTH):

WIND SPEED	MPH (3 SECOND GUST)
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	+/-0.18
COMPONENT AND CLADDING PRESSURE	19 PSF
NET UPLIFT ON ROOF	25 PSF

FOUNDATION NOTES:

1. FOUNDATIONS DESIGNED IN CONFORMANCE WITH RECOMMENDATIONS BY: **ENGINEERING TESTING CONSULTANTS, INC. REPORT NO. 3047 DATED FEBRUARY 28, 2002; AND REVISED FEBRUARY 13TH, 2020.**

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
48" BELOW FINISHED GRADE

4. ALL FOUNDATIONS SHALL BEAR ON UNDISTURBED NATURAL SOIL 48 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 16 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"

   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"	± ⅜"
SLABS ON GRADE	1½"	± ¼"
EXPOSED TO EARTH OR WEATHER - #5 AND SMALLER	1½"	± ⅜"
EXPOSED TO EARTH OR WEATHER - #6 AND LARGER	2"	± ⅜"

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.

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.

STEEL DECKING (ICBO #2078):

1. PER ARCHITECTURAL DRAWINGS.

2. ROOF DECK ATTACHMENT: PER TYPICAL DETAILS.

3. WALL SHEETING (PBR 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 GRTS 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 FOLLOWNG MINIMUM EFFECTIVE PROPERTIES PER STEEL STUD MANUFACTURERS ASSOCIATION(SSMA):

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
WELDING	YES	AFTER WORK IS COMPLETE
FULL PENETRATION WELDS	YES	CONTINUOUS INSPECTION
STEEL TO STEEL BOLTED CONNECTIONS	YES	AFTER WORK IS COMPLETE

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.

DRAWING INDEX

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JOB NO.: 2019-0236 | PROJECT MANAGER: ANDY K. | CAD OPERATOR: MJS

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REVISIONS	BY
PLAN CHECK COMMENTS 1 DATED 4/17/2020	AGK

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Registered Professional Engineer Certificate No. 27341 RICHARD K. FROST Date Signed 4.23.20 State of Arizona U.S.A.

EXPIRES 9/30/2020

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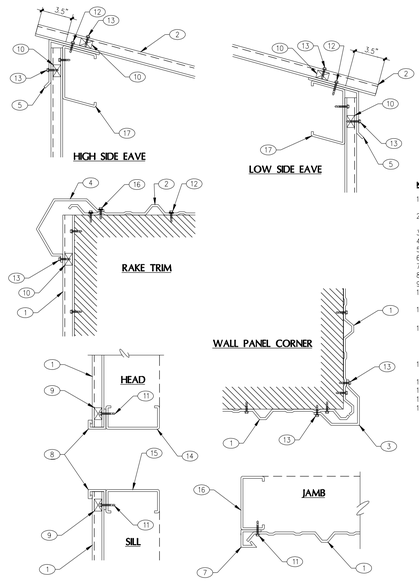
ARCHITECTURE & PLANNING

DRAWING: GENERAL STRUCTURAL NOTES

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

PROJECT: 103-33-297C

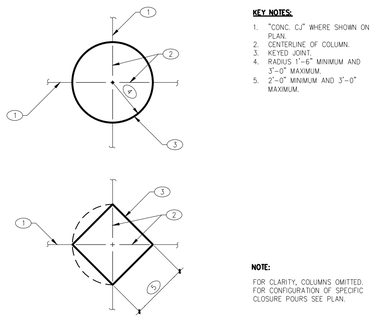
DRAWN BY	MJS
CHECKED BY	ANDY K.
DATE	4/23/20
SCALE	AS NOTED
JOB NO.	2019-0236
SHEET	S1



KEY NOTES:

1. METAL WALL PANEL PER ARCHITECTURAL DRAWINGS.
2. ROOF PANELS PER ARCHITECTURAL DRAWINGS.
3. 24 GA. CORNER TRIM.
4. 24 GA. RAKE TRIM.
5. 24 GA. EAVE TRIM.
6. 24 GA. RIDGE CAP TRIM.
7. JAMB TRIM.
8. HEAD/SILL TRIM.
9. CLOSURE.
10. CLOSURE WITH MASTIC TAPE TOP AND BOTTOM.
11. #12 X 1.25" SELF-TAPPING TEKS SCREWS AT 12" O.C.
12. #12 X 1.25" SELF-TAPPING TEKS SCREWS WITH NEOPRENE WASHERS AT 12" O.C.
13. #14 X ¾" SELF-TAPPING TEKS SCREWS AT 12" O.C.
14. STEEL HEADER.
15. STEEL GIRT.
16. STEEL "C" JAMB.
17. STEEL PURLIN OR EAVE PURLIN.

T6 TYPICAL METAL ROOFING/SIDING TRIM ATTACHMENT
SD06

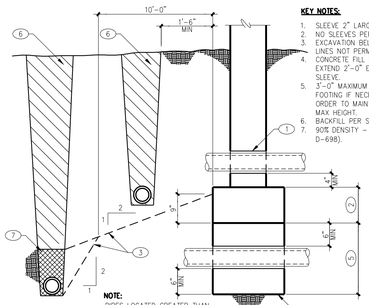


KEY NOTES:

1. "CONC. CJ" WHERE SHOWN ON PLAN.
2. CENTERLINE OF COLUMN.
3. KEYED JOINT.
4. RADIUS 1'-6" MINIMUM AND 3'-0" MAXIMUM.
5. 2'-0" MINIMUM AND 3'-0" MAXIMUM.

NOTE:
FOR CLARITY, COLUMNS OMITTED. FOR CONFIGURATION OF SPECIFIC CLOSURE POURS SEE PLAN.

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



KEY NOTES:

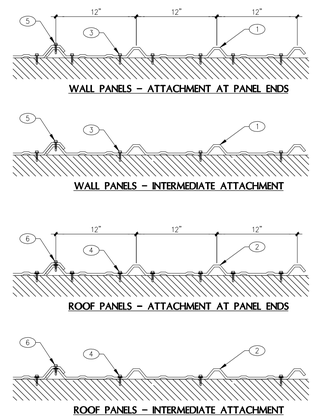
1. SLEEVE 2" LARGER THAN PIPE.
2. NO SLEEVES PERMITTED.
3. EXCAVATION BELOW THESE LINES NOT PERMITTED.
4. CONCRETE FILL PIPE TRENCH – EXTEND 2'-0" EACH SIDE OF SLEEVE.
5. 3'-0" MAXIMUM – STEP FOOTING IF NECESSARY IN ORDER TO MAINTAIN 3'-0" MAX HEIGHT.
6. BACKFILL PER SPECS.
7. 90% DENSITY – (ASTM D-698).

NOTE:
PIPES LOCATED GREATER THAN 3'-0" BELOW FOOTING BASE MAY BE BACKFILLED WITH COMPACTED FILL PER SPECIFICATIONS.

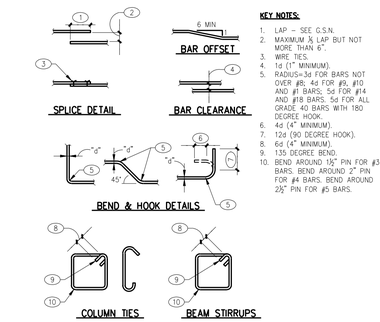
T4 PIPES AND TRENCHES AT CONCRETE FOOTING
02-F03 NO SCALE

KEY NOTES:

1. METAL WALL PANEL PER ARCHITECTURAL DRAWINGS.
2. ROOF PANELS PER ARCHITECTURAL DRAWINGS.
3. #12 X 1.25" SELF-TAPPING TEKS SCREWS AT 12" O.C.
4. #12 X 1.25" SELF-TAPPING TEKS SCREWS WITH NEOPRENE WASHERS AT 12" O.C.
5. WALL PANEL STITCH SCREW: #14 X ¾" SELF-TAPPING TEKS SCREWS AT 18" O.C.
6. ROOF PANEL STITCH SCREW: #14 X ¾" SELF-TAPPING TEKS SCREWS AT 18" O.C. WITH CONTINUOUS MASTIC TAPE.



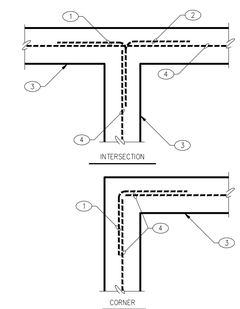
T5 TYPICAL "PBR" PANEL ROOFING/SIDING ATTACHMENT
SD05



KEY NOTES:

1. LAP – SEE G.S.N.
2. MAXIMUM ⅛ LAP BUT NOT MORE THAN 6".
3. WIRE TIES.
4. 1d (1" MINIMUM).
5. RADIUS=3d FOR BARS NOT OVER #8; 4d FOR #9, #10 AND #11 BARS; 5d FOR #14 AND #18 BARS. 5d FOR ALL GRADE 40 BARS WITH 180 DEGREE HOOK.
6. 4d (4" MINIMUM).
7. 12d (90 DEGREE HOOK).
8. 6d (4" MINIMUM).
9. 135 DEGREE BEND.
10. BEND AROUND 1½" PIN FOR #3 BARS. BEND AROUND 2" PIN FOR #4 BARS. BEND AROUND 2½" PIN FOR #5 BARS.

T1 TYPICAL REINFORCING DETAILS
C01 NO SCALE

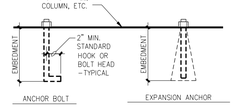


KEY NOTES:

1. CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCING. MINIMUM LAP PER G.S.N.
2. ALTERNATE DIRECTION OF BENDS.
3. CONCRETE STEM WALL OR FOOTING.
4. REINFORCING PER PLANS AND SCHEDULES.

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

BOLT SIZE	CAST IN PLACE EMBEDMENT(MINIMUM)		EXPANSION ANCHOR EMBEDMENT(MINIMUM)	
	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL
1/4"ø	4"	4"	2"	1.125"
3/8"ø	5"	4"	3"	1.5"
1/2"ø	7"	4"	4"	2"
5/8"ø	8"	5"	5"	2.5"
3/4"ø	9"	6"	6"	3"
7/8"ø	10"	7"	7"	3.5"
1"ø	11"	8"	9"	4"



KEY NOTES:
ANCHOR OR BOLT DIAMETERS SPECIFIED IN DETAILS OR ON PLANS SHALL MEET THESE MINIMUM REQUIREMENTS FOR EMBEDMENT.

THICKNESS OF DRYPACK DOES NOT APPLY TOWARDS EMBEDMENT.

EXPANSION ANCHOR APPROVALS:
SIMPSON WEDGE-ALL (ESR-1396)
HILTI ANCHORS KWIK-BOLT (ESR-1917).
POWERS POWER-STUD (ESR-2818)

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

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JOB NO.: 2019-0236	PROJECT MANAGER: ANDY K.	CAD OPERATOR: MJS

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REVISIONS	BY

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Registered Professional Engineer
CERTIFICATE NO.
27341
RICHARD K. FROST
4-23-20
DATE SIGNED
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EXPIRES 9/30/2020

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ARCHITECTURE & PLANNING

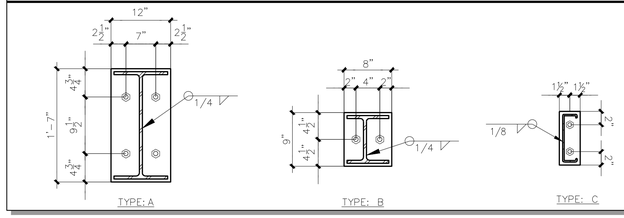
DRAWING: TYPICAL DETAILS

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

PROJECT: 103-33-297C

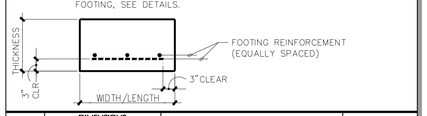
DRAWN BY	MJS
CHECKED BY	ANDY K.
DATE	4/23/20
SCALE	AS NOTED
JOB NO.	2019-0236
SHEET	S1.1

STEEL COLUMN (SC) SCHEDULE



MARK	SIZE	BASE CONNECTION	BASE CONNECTION TYPE	REMARKS
SC1	W18X76	19"X12"X⅝" THK STEEL PLATE W/ (4) 1"ø X 12" ASTM F1554 HEAVY HEX HEAD AB	TYPE A	STARTS AT TOP OF SLAB
SC2	W8X28	9"X8"X⅜" THK STEEL PLATE W/ (2) ⅝"øX12" ASTM F1554 HEAVY HEX HEAD AB	TYPE B	STARTS AT TOP OF SLAB
SC3	W8X28	9"X8"X⅜" THK STEEL PLATE W/ (2) ⅝"øX12" ASTM F1554 HEAVY HEX HEAD AB	TYPE B	STARTS AT TOP OF SLAB
SC4	8"X2.5"X14GA. 'C' JAMB AT OPENINGS	8½"X3"X¼" THK STEEL PLATE W/ (2) ½"øX10" J-BOLTS	TYPE C	STARTS AT TOP OF SLAB

CONCRETE FOOTING (F) SCHEDULE



MARK	DIMENSIONS LENGTH	DIMENSIONS WIDTH	DIMENSIONS THICKNESS	FOOTING REINFORCING	REMARKS
F1	60"	60"	12"	(6) #5 EACH WAY	---
F2	24"	24"	12"	(5) #4 EACH WAY	---
F3	36"	36"	12"	(4) #5 EACH WAY	---

WALL SCHEDULE

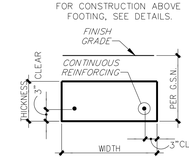
-HATCHING INDICATES STRUCTURAL ELEMENT CONTINUES TO THE NEXT LEVEL (VERIFY WITH ARCHITECTURAL DRAWINGS).
-SEE PLAN SCHEDULES, DETAILS, AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

AS SEEN ON PLANS	INDICATES-
	8"X3.5"X14GA. HORIZONTAL WIND GIRT AT 7'-0" O.C. MAX. SEE STRUCTURAL ELEVATIONS AND WND GIRT SCHEDULE.

FOUNDATION PLAN NOTES

1. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
2. FOR LOCATION OF DETAILS SEE SHEET INDEX ON SHEET S1.
3. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
4. THE DEPTH OF FOOTING DIMENSION INDICATED IN THE G.S.N. IS A MINIMUM. FOUNDATION CONTRACTOR SHALL COORDINATE WITH THE SOILS REPORT AND OTHER TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
5. WF1, WF2, ETC. – AS SHOWN ON PLAN INDICATES A CONTINUOUS WALL FOOTING. SEE WALL FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
6. F1, F2, ETC. – AS SHOWN ON PLAN INDICATES A CONCRETE FOOTING. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
7. SC1, SC2, ETC. – AS SHOWN ON PLAN INDICATES A STEEL COLUMN. SEE STEEL COLUMN SCHEDULE FOR ADDITIONAL INFORMATION. COLUMNS START AT THE LEVEL THEY ARE CALLED OUT ON.
8. CCJ – AS SHOWN ON PLAN INDICATES LOCATION OF EITHER A KEYED OR A SAW CUT CONTROL JOINT IN THE SLAB ON GRADE AT CONTRACTOR'S OPTION. SEE GENERAL STRUCTURAL NOTES AND DETAIL 101.
9. VERIFY EXACT SIZE AND LOCATION OF DEPRESSED AND/OR RAISED SLABS WITH ARCHITECTURAL DRAWINGS.
10. FOR SIDEWALK AND LANDING LOCATIONS, SEE ARCHITECTURAL DRAWINGS.

CONCRETE WALL FOOTING (WF) SCHEDULE

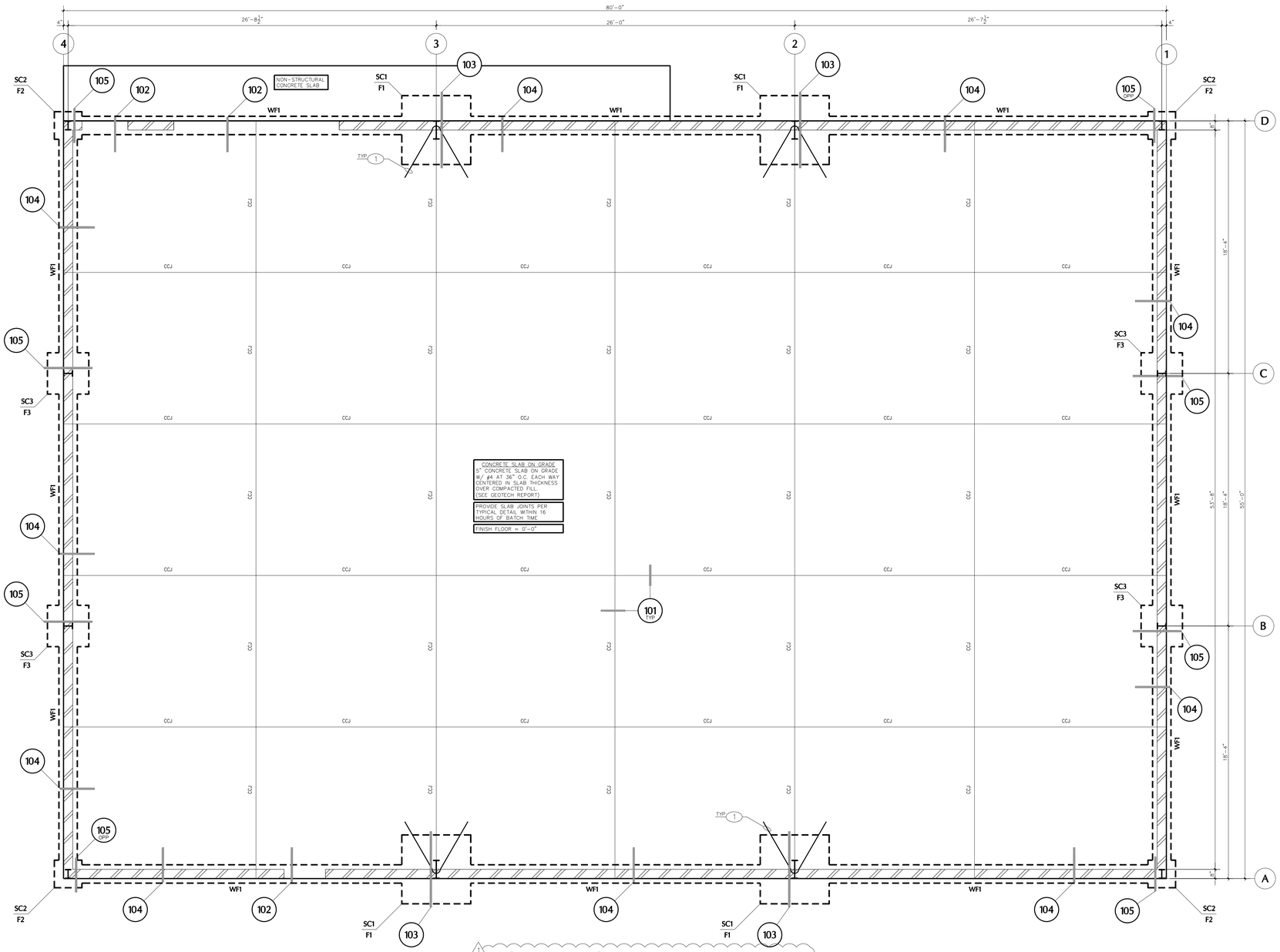


STRIP FOOTING

MARK	DIMENSIONS WIDTH	DIMENSIONS THICKNESS	FOOTING REINFORCING	FOOTING TYPE
WF1	16"	10"	(2) #4 CONTINUOUS	STRIP

PLAN KEYNOTES

(1) #5 HAIRPIN W/ 4'-0" LEGS.



FOUNDATION PLAN

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

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JOB NO.: 2019-0236 | PROJECT MANAGER: ANDY K. | CAD OPERATOR: MJS

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REVISIONS	BY
PLAN CHECK COMMENTS DATED 4/17/2020	AGK

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Registered Professional Engineering Consultants CERTIFICATE NO. 27341 RICHARD K. FROST 4-23-20 REGISTERED ARIZONA U.S.A.

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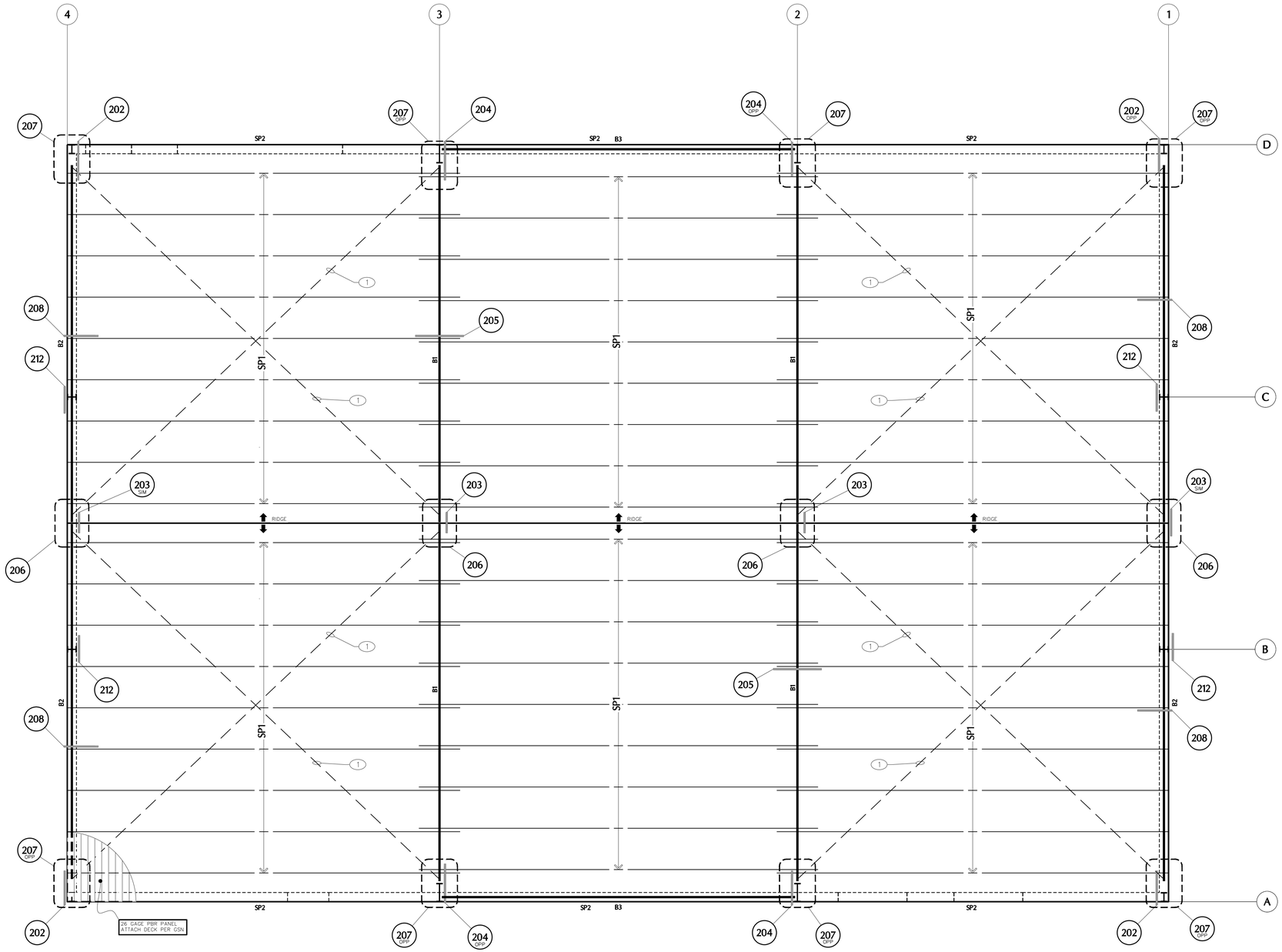
ARCHITECTURE & PLANNING

DRAWING: FOUNDATION PLAN

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

PROJECT: 103-33-297C

DRAWN BY	MJS
CHECKED BY	ANDY K.
DATE	4/23/20
SCALE	AS NOTED
JOB NO.	2019-0236
SHEET	S2



ROOF FRAMING PLAN

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

WALL SCHEDULE

NOTE:	SEE PLAN SCHEDULES, DETAILS AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
AS SEEN ON PLANS	INDICATES–
- - - - - -	8"X3.5"X14GA. HORIZONTAL WIND GIRT BELOW AT 7'–0" O.C. MAX. SEE STRUCTURAL ELEVATIONS AND WIND GIRT SCHEDULE.

ROOF FRAMING PLAN NOTES

1. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
2. FOR LOCATION OF DETAILS SEE SHEET INDEX ON SHEET S1.
3. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
4. B1, B2, ETC. – AS SHOWN ON PLAN INDICATES A STEEL BEAM. SEE STEEL BEAM SCHEDULE FOR ADDITIONAL INFORMATION.
5. SP1, SP2, ETC. – AS SHOWN ON PLAN INDICATES A STEEL PURLIN. SEE STEEL PURLIN SCHEDULE FOR ADDITIONAL INFORMATION.
6. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
7. FOR CLARITY, ALL ROOF OPENINGS MAY NOT BE SHOWN ON THE ROOF FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.

1

PLAN KEYNOTES

(1) ⅝"ø STEEL ROD HORIZONTAL X-BRACE.

STEEL PURLIN (SP) SCHEDULE

MARK	PURLIN	REMARKS
SP1	10"X2.5"X14GA. "Z" PURLINS AT 3'–0" O.C.	---
SP2	10"X2.5"X14GA. "C" PURLIN	---

BEAM (B) SCHEDULE

MARK	SIZE	CAMBER
B1	W24X94	---
B2	W12X40	---
B3	W8X28	---

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PLAN CHECK COMMENTS 1 DATED 4/17/2020	AGK

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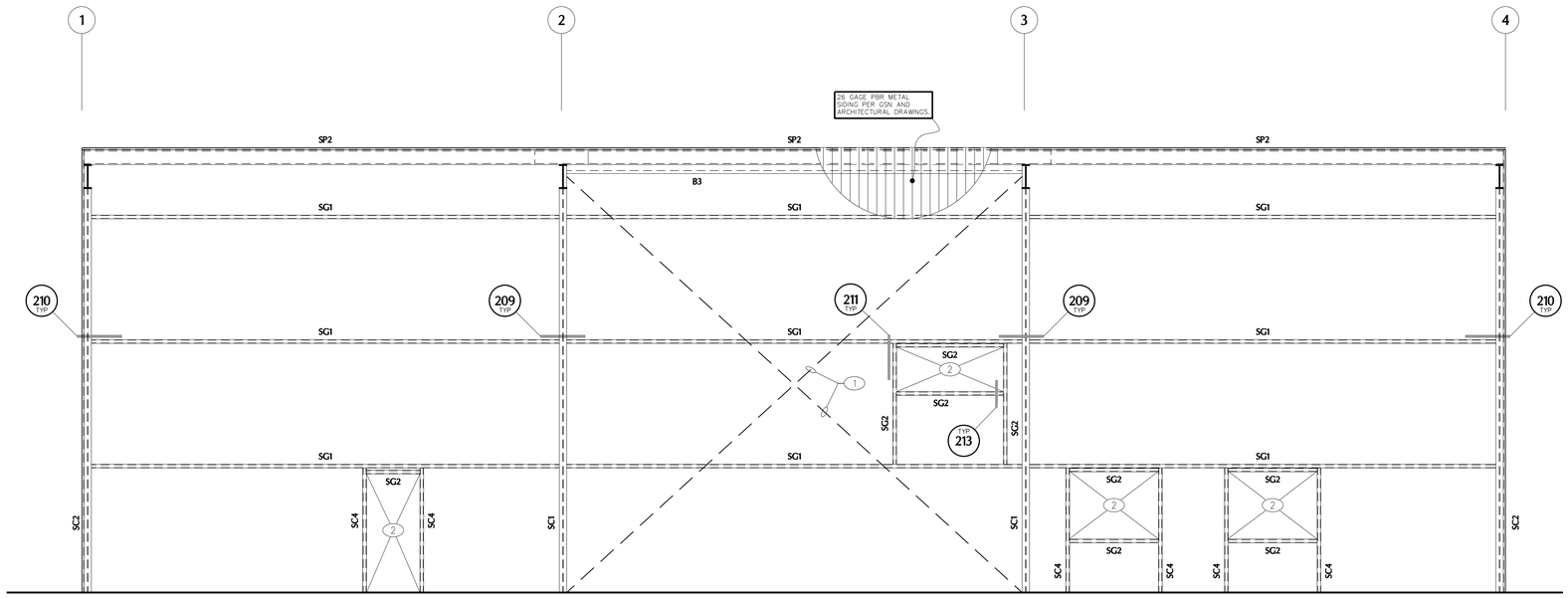
ARCHITECTURE & PLANNING

DRAWING: ROOF FRAMING PLAN

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

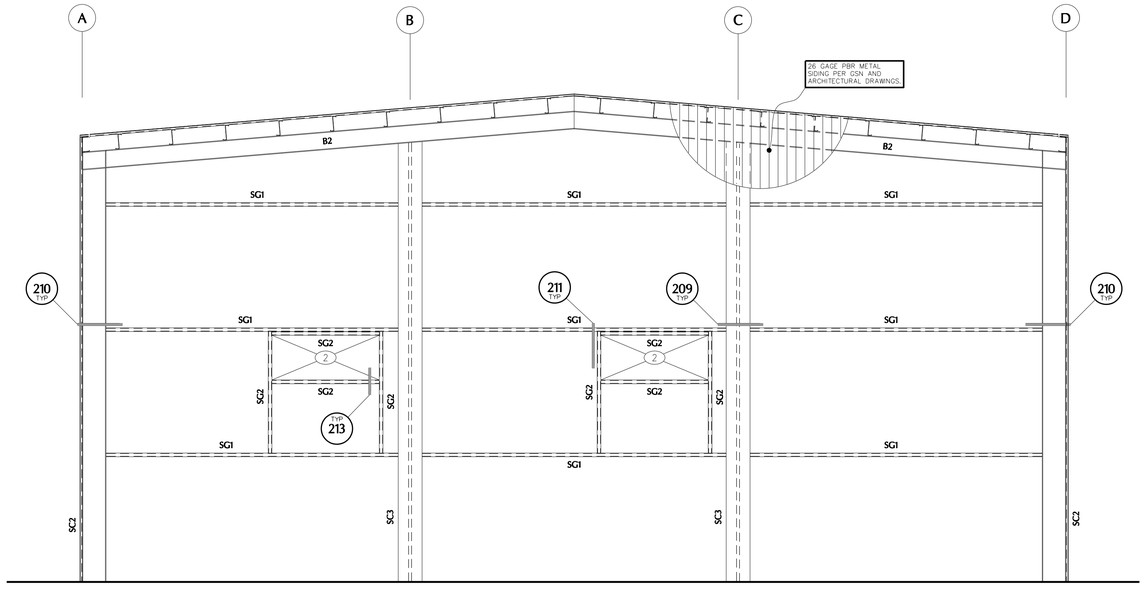
PROJECT: 103-33-297C

DRAWN BY	MJS
CHECKED BY	ANDY K.
DATE	4/23/20
SCALE	AS NOTED
JOB NO.	2019-0236
SHEET	S3



1 SOUTH – STRUCTURAL ELEVATION

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



1 WEST – STRUCTURAL ELEVATION

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

STRUCTURAL ELEVATION NOTES

1. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
2. FOR LOCATION OF DETAILS SEE SHEET INDEX ON SHEET S1.
3. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS SHEET. SCHEDULES ARE TYPICAL TO THIS PROJECT.
4. B1, B2, ETC. – AS SHOWN INDICATES A BEAM. SEE BEAM SCHEDULE FOR ADDITIONAL INFORMATION.
5. SP1, SP2, ETC. – AS SHOWN INDICATES STEEL PURLINS. SEE STEEL PURLIN SCHEDULE FOR ADDITIONAL INFORMATION.
6. SG1, SG2, ETC. – AS SHOWN INDICATES STEEL WIND GIRTER. SEE STEEL WIND GIRTER SCHEDULE FOR ADDITIONAL INFORMATION.
7. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.

1

STRUCTURAL ELEVATION KEYNOTES

1. ⅜"ø STEEL ROD X-BRACE. SEE TYPICAL DETAILS FOR CONNECTIONS (TURNBUCKLE/JAW END(S) W/ 6,000LB. MINIMUM WLL AS REQUIRED.
2. OPENING – SEE ARCHITECTURAL DRAWINGS.

STEEL PURLIN (SP) SCHEDULE

MARK	PURLIN	REMARKS
SP1	10"X2.5"X14GA. 'Z' PURLINS AT 3'-0" O.C.	---
SP2	10"X2.5"X14GA. 'C' PURLIN	---

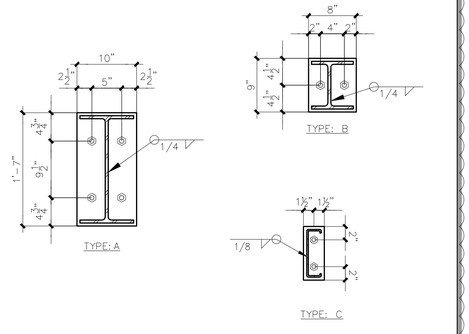
STEEL GIRT (SG) SCHEDULE

MARK	GIRT	REMARKS
SG1	8"X2.5"X14GA. 'Z' GIRT	---
SG2	8"X2.5"X14GA. 'C' GIRT	---

STEEL COLUMN (SC) SCHEDULE

MARK	SIZE	BASE CONNECTION	BASE CONNECTION TYPE	REMARKS
SC1	W18X76	19"X12"X⅝" THK STEEL PLATE W/ (4) 1"ø X 12" ASTM F1554 HEAVY HEX HEAD AB	TYPE A	STARTS AT TOP OF SLAB
SC2	W8X28	9"X8"X⅜" THK STEEL PLATE W/ (2) ⅝"øX12" ASTM F1554 HEAVY HEX HEAD AB	TYPE B	STARTS AT TOP OF SLAB
SC3	W8X28	9"X8"X⅜" THK STEEL PLATE W/ (2) ⅝"øX12" ASTM F1554 HEAVY HEX HEAD AB	TYPE B	STARTS AT TOP OF SLAB
SC4	8"X2.5"X14GA. 'C' JAMB AT OPENINGS	8½"X3"X¼" THK STEEL PLATE W/ (2) ½"øX10" J-BOLTS	TYPE C	STARTS AT TOP OF SLAB

1



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JOB NO.: 2019-0236 | PROJECT MANAGER: ANDY K. | CAD OPERATOR: MJS

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REVISIONS	BY
PLAN CHECK COMMENTS 1 DATED 4/17/2020	AGK

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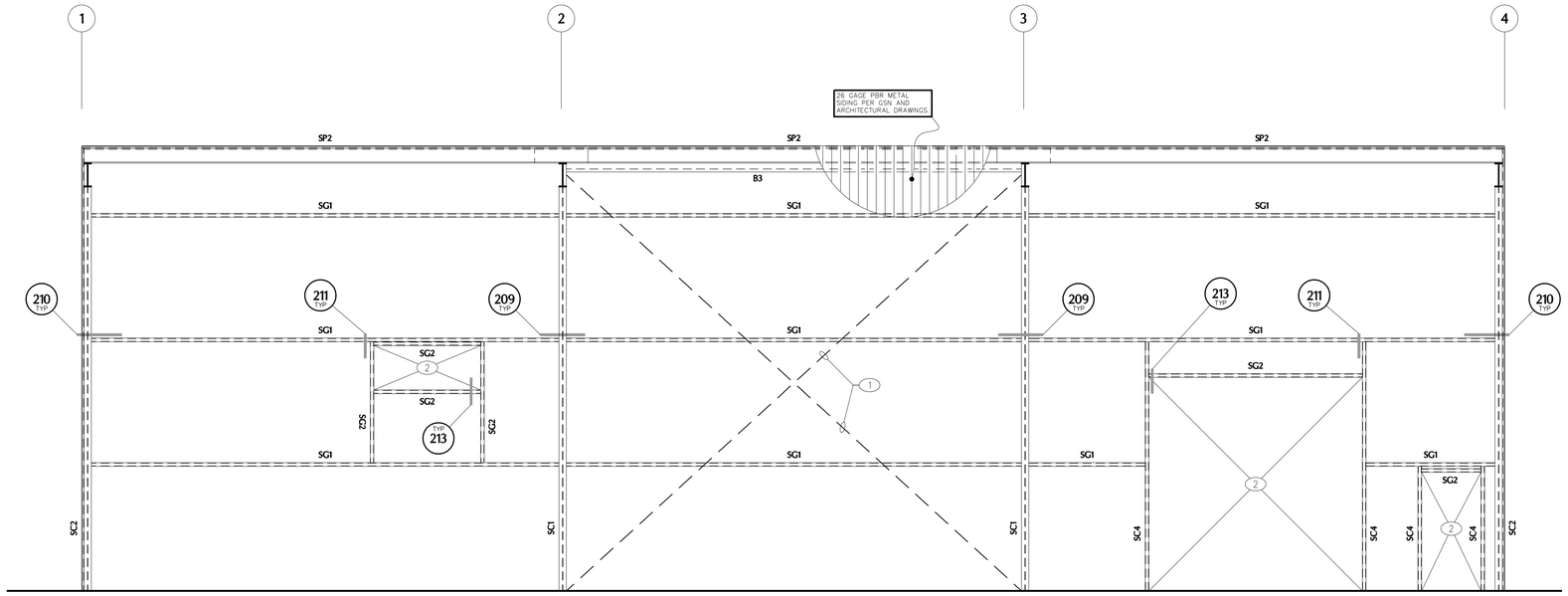
ARCHITECTURE & PLANNING

DRAWING: ROOF FRAMING PLAN

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

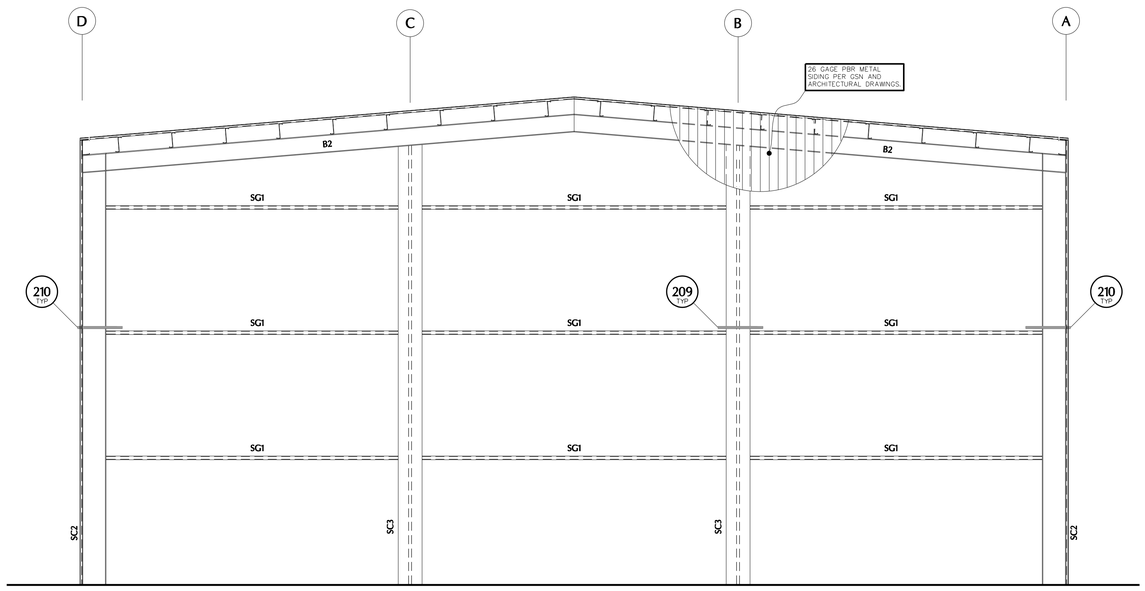
PROJECT: 103-33-297C

DRAWN BY: MJS
CHECKED BY: ANDY K.
DATE: 4/23/20
SCALE: AS NOTED
JOB NO.: 2019-0236
SHEET: **S3.1**



NORTH – STRUCTURAL ELEVATION

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



EAST – STRUCTURAL ELEVATION

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

STRUCTURAL ELEVATION NOTES

1. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
2. FOR LOCATION OF DETAILS SEE SHEET INDEX ON SHEET S1.
3. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS SHEET. SCHEDULES ARE TYPICAL TO THIS PROJECT.
4. B1, B2, ETC. – AS SHOWN INDICATES A BEAM. SEE BEAM SCHEDULE FOR ADDITIONAL INFORMATION.
5. SP1, SP2, ETC. – AS SHOWN INDICATES STEEL PURLINS. SEE STEEL PURLIN SCHEDULE FOR ADDITIONAL INFORMATION.
6. SG1, SG2, ETC. – AS SHOWN INDICATES A STEEL WIND GIRTER. SEE STEEL WIND GIRTER SCHEDULE FOR ADDITIONAL INFORMATION.
7. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.

STRUCTURAL ELEVATION KEYNOTES

1. ⅝"ø STEEL ROD X-BRACE. SEE TYPICAL DETAILS FOR CONNECTIONS (TURNBUCKLE/JAW END(S) W/ 6,000LB. MINIMUM WLL AS REQUIRED.
2. OPENING – SEE ARCHITECTURAL DRAWINGS.

STEEL PURLIN (SP) SCHEDULE

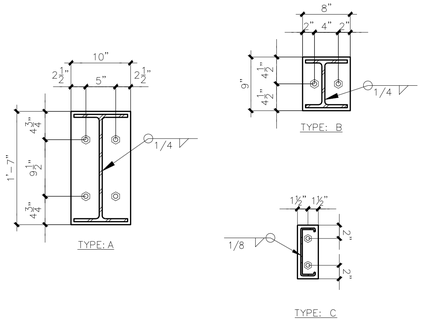
MARK	PURLIN	REMARKS
SP1	10"X2.5"X14GA. "Z" PURLINS AT 3'-0" O.C.	---
SP2	10"X2.5"X14GA. "C" PURLIN	---

STEEL GIRT (SG) SCHEDULE

MARK	GIRT	REMARKS
SG1	8"X2.5"X14GA. "Z" GIRT	---
SG2	8"X2.5"X14GA. "C" GIRT	---

STEEL COLUMN (SC) SCHEDULE

MARK	SIZE	BASE CONNECTION	BASE CONNECTION TYPE	REMARKS
SC1	W18X76	19"X12"X⅝" THK STEEL PLATE W/ (4) 1"ø X 12" ASTM F1554 HEAVY HEX HEAD AB	TYPE A	STARTS AT TOP OF SLAB
SC2	W8X28	9"X8"X⅜" THK STEEL PLATE W/ (2) ⅝"øX12" ASTM F1554 HEAVY HEX HEAD AB	TYPE B	STARTS AT TOP OF SLAB
SC3	W8X28	9"X8"X⅜" THK STEEL PLATE W/ (2) ⅝"øX12" ASTM F1554 HEAVY HEX HEAD AB	TYPE B	STARTS AT TOP OF SLAB
SC4	8"X2.5"X14GA. 'C' JAMB AT OPENINGS	8½"X3"X¼" THK STEEL PLATE W/ (2) ½"øX10" J-BOLTS	TYPE C	STARTS AT TOP OF SLAB



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JOB NO.: 2019-0236 | PROJECT MANAGER: ANDY K. | CAD OPERATOR: MJS

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REVISIONS	BY
1 PLAN CHECK COMMENTS DATED 4/17/2020	AGK

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ARCHITECTURE & PLANNING

DRAWING: ROOF FRAMING PLAN

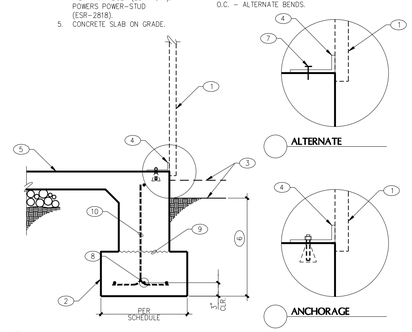
PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

PROJECT: 103-33-297C

DRAWN BY	MJS
CHECKED BY	ANDY K.
DATE	4/23/20
SCALE	AS NOTED
JOB NO.	2019-0236
SHEET	S3.2

KEY NOTES:

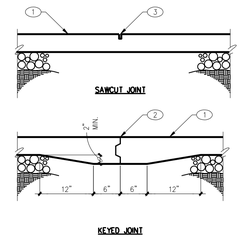
1. METAL WALL SHEATHING.
2. CONTINUOUS CONCRETE FOOTING.
3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCHITECTURAL DRAWINGS.
4. CONTINUOUS 4"x2"X14 GAUGE BASE ANGLE W/ ⅜"ø x2" (MIN.) EXPANSION ANCHOR AT 48" O.C. AND WITH-IN 6" O.C. OF ENDS.
   ACCEPTABLE ANCHORS:
   SIMPSON WEDGE-ALL (ESR-1396).
   HILTI KWIK-BOLT (ESR-1917).
   POWERS POWER-STUD (ESR-2818).
5. CONCRETE SLAB ON GRADE.
6. MINIMUM FOOTING DEPTH PER G.S.N.
7. ALTERNATE ANCHORAGE:
   0.106"ø x1" SHOT PINS AT 24" O.C.
   ACCEPTABLE ANCHORS:
   HILTI X-DNI (ESR-1663).
   SIMPSON GDP-100KT (ESR-2811).
8. FOOTING REINFORCING. SEE SCHEDULE FOR ACTUAL NUMBER OF REBAR AND POSITION.
9. COLD JOINT.
10. #4 VERTICAL DOWELS AT 24" O.C. – ALTERNATE BENDS.



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

KEY NOTES:

1. CONCRETE SLAB ON GRADE.
2. CONTINUOUS KEYED JOINT.
3. SAWCUT: ⅜" WIDE X ¼" SLAB THICKNESS IN DEPTH. CUT SHALL BE MADE SOON ENOUGH TO PREVENT SHRINKAGE CRACKING, BUT NOT SO SOON AS TO CAUSE SPALLING OF THE CONCRETE WHILE SAWING. WORK MUST BE COMPLETE WITHIN 16 HOURS OF CONCRETE PLACEMENT.



NOTE:
KEYED JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING PLACEMENT UNLESS SPECIFICALLY NOTED ON THE PLANS. "TOOL WET JOINT", "ZIP STRIP", ETC. SHALL MATCH SAWCUT REQUIREMENTS.

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

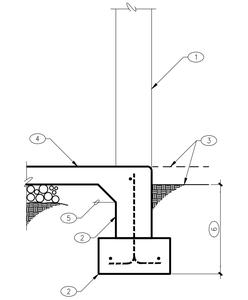
KEY NOTES:

1. STEEL COLUMN.
2. CONCRETE FOOTING.
3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCHITECTURAL DRAWINGS.
4. CONCRETE FOOTING – REINFORCING CONTINUOUS FROM BEYOND.
5. ANCHOR BOLTS PER STEEL COLUMN SCHEDULE.
6. CENTERLINE OF STEEL COLUMN AND FOOTING.
7. CONCRETE SLAB ON GRADE.
8. MINIMUM FOOTING DEPTH PER G.S.N.
9. COLD JOINT.
10. (4) #5 BARS ℄ AT 16" O.C.

105 PRE-ENGINEERED COLUMN AT CONCRETE FOOTING
08-MB-CF0201 NO SCALE

KEY NOTES:

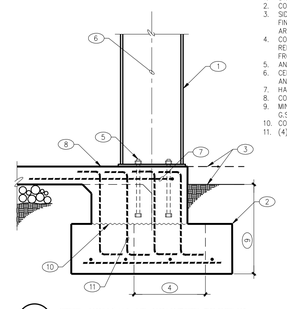
1. STEEL BUILDING WALL BEYOND.
2. 8" THICK CONCRETE STEM WALL AND CONCRETE FOOTING WITH REINFORCING CONTINUOUS FROM BEYOND.
3. SIDEWALK, PAVEMENT OR FINISH GRADE PER ARCHITECTURAL DRAWINGS.
4. CONCRETE SLAB ON GRADE. TOOLED EDGE AT OPENING.
5. DEPRESS STEM WALL 8" MINIMUM.
6. MINIMUM FOOTING DEPTH PER G.S.N.



102 DOOR OPENING AT CONCRETE FOOTING
MW-CF1003 NO SCALE

KEY NOTES:

1. STEEL COLUMN.
2. CONCRETE FOOTING.
3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCHITECTURAL DRAWINGS.
4. CONCRETE FOOTING – REINFORCING CONTINUOUS FROM BEYOND.
5. ANCHOR BOLTS PER SCHEDULE.
6. CENTERLINE OF STEEL COLUMN AND FOOTING.
7. HAIRPIN BAR.
8. CONCRETE SLAB ON GRADE.
9. MINIMUM FOOTING DEPTH PER G.S.N.
10. COLD JOINT.
11. (4) #5 BARS ℄ AT 16" O.C.



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

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JOB NO.: 2019-0236 | PROJECT MANAGER: ANDY K. | CAD OPERATOR: MJS

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REVISIONS	BY
PLAN CHECK COMMENTS: ⚠1 DATED 4/17/2020	AGK

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Registered Professional Engineering Consultant CERTIFICATE NO. 27341 RICHARD K. FROST 4-23-20 DATE SIGNED ARIZONA U.S.A.

EXPIRES 9/30/2020

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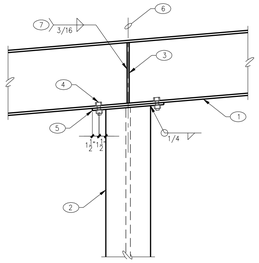
ARCHITECTURE & PLANNING

DRAWING: FOUNDATION DETAILS 100-SERIES

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

PROJECT: 103-33-297C

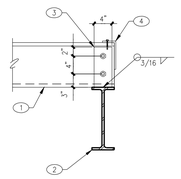
DRAWN BY: MJS
CHECKED BY: ANDY K.
DATE: 4/23/20
SCALE: AS NOTED
JOB NO.: 2019-0236
SHEET: ⚠1 **S4**



KEY NOTES:

1. STEEL BEAM.
2. STEEL COLUMN.
3. ⅜" STIFFENER PLATE EACH SIDE OF BEAM.
4. (4) ⅞"ø BOLTS ON BEAM GAUGE.
5. ½" CAP PLATE.
6. CENTERLINE OF COLUMN.
7. WELD (3) SIDES – TYPICAL.

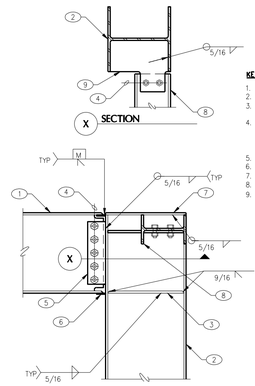
212 STEEL BEAM AT STEEL COLUMN
NO SCALE



KEY NOTES:

1. STEEL PURLIN.
2. STEEL BEAM.
3. ⅜" THICK STEEL PLATE W/ (2) ⅞"ø A307 BOLTS.
4. CONTINUOUS L6"x4"x14 GA. (LLV) STEEL RAKE ANGLE W/ (1) #12 TEKS SCREW AT EACH PURLIN.

208 STEEL PURLIN AT STEEL BEAM
05-SP-SB0401-2
NO SCALE



KEY NOTES:

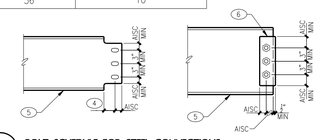
1. STEEL BEAM.
2. STEEL COLUMN.
3. ⅜" STEEL PLATE EACH SIDE OF WEB.
4. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL 201 "BOLT SCHEDULE FOR STEEL CONNECTIONS".
5. SHEAR PLATE PER TYPICAL.
6. STEEL BACKER PLATE.
7. ⅜" THICK CAP PLATE.
8. STEEL BEAM/WIND GIRT.
9. ⅜" STEEL PLATE.

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

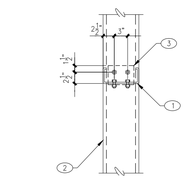
NOMINAL BEAM DEPTH "D"	NUMBER OF ¾"ø ASTM, A325N BOLTS
UP TO 7"	2
8" – 11"	2
12" – 14"	3
15" – 17"	4
18" – 20"	5
21" – 23"	6
24" – 29"	7
30" – 32"	8
33" – 35"	9
36"	10

KEY NOTES:

1. THE TYPICAL STEEL BEAM TO STEEL COLUMN OR STEEL BEAM TO STEEL BEAM CONNECTION CONSISTS OF ⅜" THICK SINGLE SHEAR PLATES WITH ¾"ø ASTM A325N BOLTS. USE ⅜" SHEAR PLATES WHERE "D" =27" 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 1.16.4 AND 1.16.5. AND AS SHOWN BELOW.
4. CLIP FLANGE FOR ½" CLR.
5. STEEL BEAM.
6. SHEAR PLATE.



201 BOLT SCHEDULE FOR STEEL CONNECTIONS
02-S02
NO SCALE



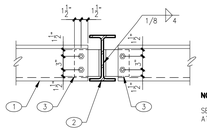
KEY NOTES:

1. STEEL GIRT "C" PER STRUCTURAL ELEVATIONS.
2. STEEL JAMB "C" PER STRUCTURAL ELEVATIONS.
3. L4"x4"x⅜" x 6" LONG W/ (2) ⅞"ø A307 BOLTS TO GIRT AND JAMB.

NOTE:

SEE TYPICAL DETAILS FOR ATTCHMENT OF METAL SIDING.

213 STEEL CEE GIRT AT STEEL CEE JAMB
05-SCG-SCJ0101
NO SCALE



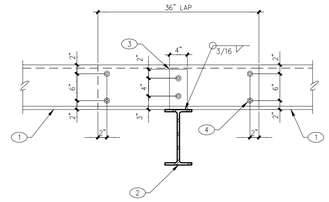
KEY NOTES:

1. STEEL GIRT PER STRUCTURAL ELEVATIONS.
2. STEEL COLUMN PER PLAN/ SCHEDULES.
3. L3X6X⅜ X 0'-6" LONG BENT PLATE W/ (2) ⅞"ø A307 BOLTS.

NOTE:

SEE TYPICAL DETAILS FOR ATTCHMENT OF METAL SIDING.

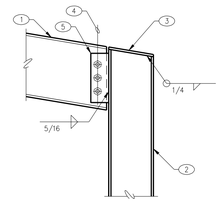
209 PLAN VIEW – STEEL GIRT AT STEEL COLUMN
05-SP-SC0201
NO SCALE



KEY NOTES:

1. STEEL PURLIN.
2. STEEL BEAM.
3. ⅜" THICK STEEL PLATE W/ (2) ⅞"ø A307 BOLTS.
4. (4) ⅞"ø A307"ø BOLTS AT SPLICE.

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



KEY NOTES:

1. STEEL BEAM.
2. STEEL COLUMN.
3. ½" CAP PLATE.
4. FOR TYPE, SIZE, AND NUMBER OF BOLTS, SEE DETAIL **201** "BOLT SCHEDULE FOR STEEL CONNECTIONS".
5. ⅜" STEEL SHEAR PLATE.

202 STEEL BEAM AT STEEL COLUMN
05-SB-SC0304-3
NO SCALE

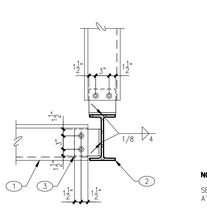
KEY NOTES:

1. STEEL GIRT "Z" PER STRUCTURAL ELEVATIONS.
2. STEEL JAMB "C" PER STRUCTURAL ELEVATIONS.
3. L4X4X¼ X 0'-6" LONG W/ (2) ⅞"ø A307 BOLTS TO GIRT AND JAMB.

NOTE:

SEE TYPICAL DETAILS FOR ATTCHMENT OF METAL SIDING.

211 STEEL JAMB AT STEEL GIRT
05-SCG-SCJ0101
NO SCALE



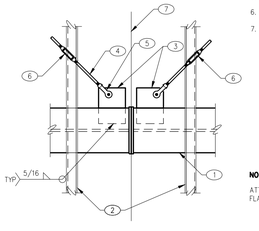
KEY NOTES:

1. STEEL GIRT PER STRUCTURAL ELEVATIONS.
2. STEEL COLUMN PER PLAN/ SCHEDULES.
3. L3X6X⅜ X 0'-6" LONG BENT PLATE W/ (2) ⅞"ø A307 BOLTS.

NOTE:

SEE TYPICAL DETAILS FOR ATTCHMENT OF METAL SIDING.

210 PLAN VIEW – STEEL GIRT AT STEEL COLUMN
05-SP-SC0201
NO SCALE



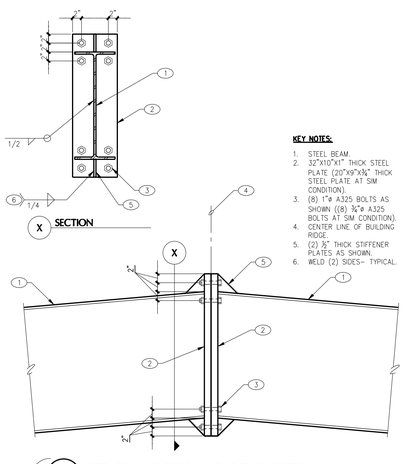
KEY NOTES:

1. STEEL BEAM.
2. STEEL ROOF PURLIN SEE DETAIL 208
3. 8"X12"X⅝" 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.

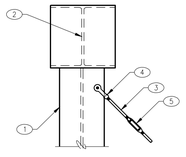
206 PLAN – STEEL ROD BRACE AT STEEL BEAM
NO SCALE



KEY NOTES:

1. STEEL BEAM.
2. 32"X10"X1" THICK STEEL PLATE (20"x9"x⅝" THICK STEEL PLATE AT SIM CONDITION).
3. (8) 1"ø A325 BOLTS AS SHOWN ((8) ¾"ø A325 BOLTS AT SIM CONDITION).
4. CENTER LINE OF BUILDING RIDGE.
5. (2) ½" THICK STIFFENER PLATES AS SHOWN.
6. WELD (2) SIDES– TYPICAL.

203 STEEL BEAM AT RIDGE – MOMENT CONNECTION
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

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JOB NO.: 2019-0236 | PROJECT MANAGER: ANDY K. | CAD OPERATOR: MJS

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REVISIONS	BY
PLAN CHECK COMMENTS DATED 4/17/2020	AGK

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Registered Professional Engineer — CERTIFICATE NO. 27341 — RICHARD K. FROST — 4.23.20 — DATE SIGNED — ARIZONA, U.S.A.

EXPIRES 9/30/2020

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ARCHITECTURE & PLANNING

DRAWING: FRAMING DETAILS 200-SERIES

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

PROJECT: 103-33-297C

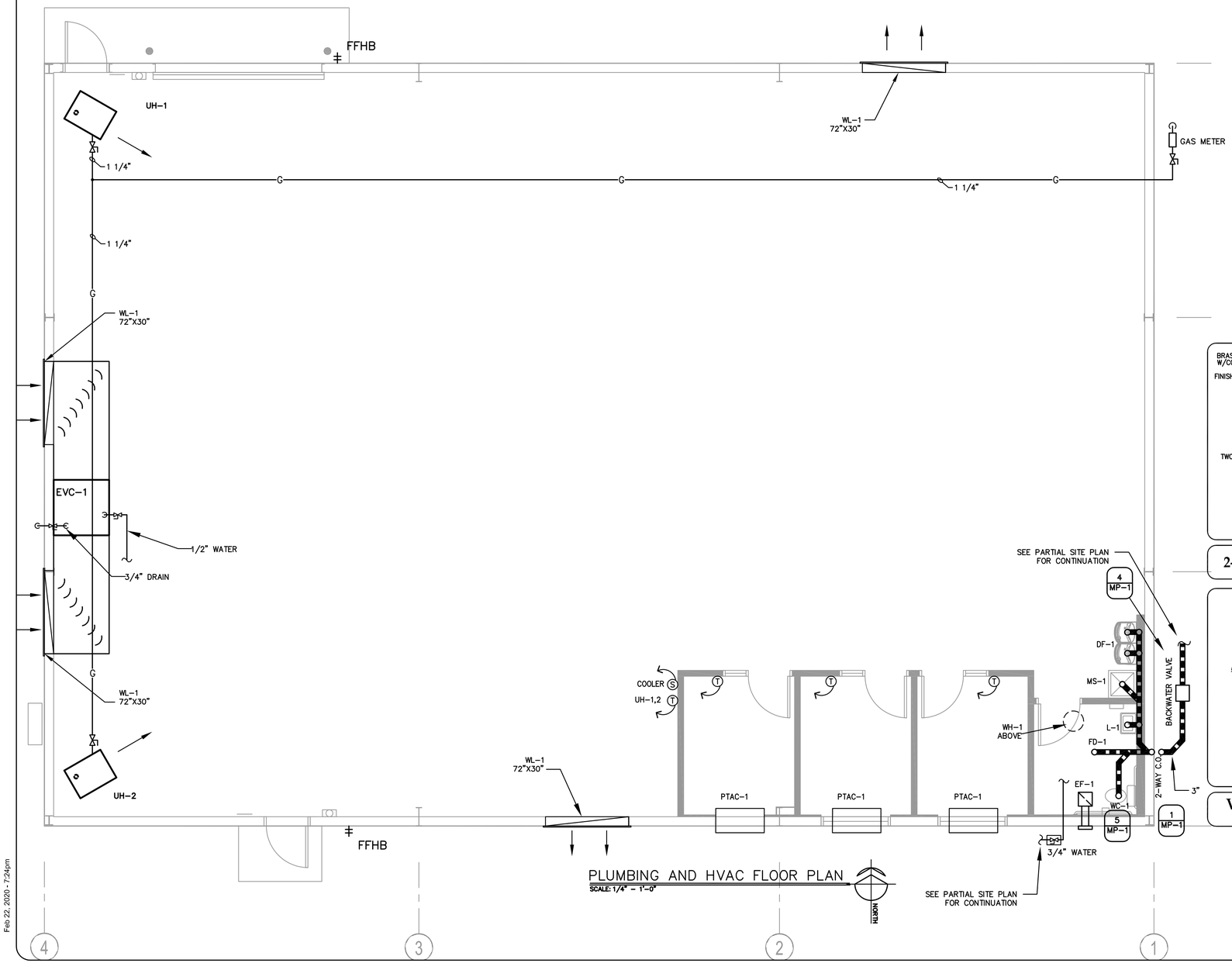
DRAWN BY: MJS
CHECKED BY: ANDY K.
DATE: 4/23/20
SCALE: AS NOTED
JOB NO.: 2019-0236
SHEET: 1 **S5**

MECHANICAL GENERAL NOTES

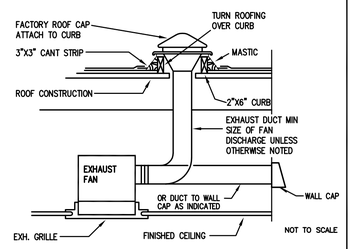
1. FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, FEES, PERMITS, CERTIFICATE OF INSPECTION, ETC. NECESSARY OR REASONABLE REQUIRED FOR THE COMPLETE INSTALLATION OF ALL AIR-CONDITIONING WORK, THE WORK SHALL BE IN STRICT ACCORDANCE WITH ASHRAE GUIDELINES, AND ALL LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS.
2. MECHANICAL EQUIPMENT LOCATIONS TO COMPLY WITH ALL APPLICABLE CODES.
3. COORDINATE EXACT DIFFUSER AND GRILLE LOCATIONS WITH OTHER TRADES.
4. – NOT USED –
5. 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.
6. FLEX DUCTS TO BE THERMAFLEX TYPE GKM OR APPROVED EQUAL, 8FT. MAX. LENGTH
7. OUTSIDE AIR INTAKES SHALL BE MINIMUM 10 FEET FROM ANY EXHAUST OR PLUMBING VENTS.
8. 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.
9. SET A/C UNIT OSA TO CFM AS SPECIFIED ON DRAWING.
10. 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.
11. NEW DUCTWORK TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE W/ "ASHRAE GUIDE AND SMACNA STANDARDS".
12. MECHANICAL CONTRACTOR TO VERIFY THAT ALL DUCTWORK WILL FIT WHERE INDICATED W/O INTERFERENCE WITH STRUCTURAL MEMBERS OR OTHER MATERIALS OR EQUIPMENT.
13. CONTRACTOR AND ARCHITECT TO VERIFY T-STAT LOCATIONS WITH OWNER PRIOR TO INSTALLING THERMOSTATS, CONTRACTOR SHALL PROVIDE ALL NECESSARY WIRING AND CONDUIT.
14. COORDINATE ALL MECHANICAL WORK, INCLUDING EQUIPMENT, DUCTWORK AND PIPING, W/ ARCHITECT AND OTHER TRADES PRIOR TO COMMENCING WORK.
15. 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.
16. 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.
17. 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.
18. 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

19. DUCTWORK SHALL BE INSTALLED PER THE LATEST SMACNA MANUAL FOR LOW PRESSURE DESIGN.
20. DUCTWORK TO CONFORM TO CURRENT APPLICABLE CODES
21. 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.
22. THE EXHAUST DUCTS MUST TERMINATE 10 FEET HORIZONTALLY FROM OR 3 FT. ABOVE ALL AIR INTAKES.
23. SEAL ALL JOINTS IN DUCTWORK WITH DUCT SEALER.
24. PROVIDE RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES & EXTRACTORS WHERE APPLICABLE.
25. DUCT SIZES SHOWN ARE "CLEAR INSIDE" DIMENSIONS.
26. MECHANICAL CONTRACTOR TO VERIFY AND COORDINATE AVAILABLE VOLTAGE, PHASE & MCA LOADS WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING ELECTRICAL & MECHANICAL EQUIPMENT.
27. MECHANICAL CONTRACTOR TO VERIFY THAT ALL SPECIFIED EQUIPMENT IS COMPATIBLE WITH DUCTWORK, STRUCTURE & OTHER PHYSICAL FACTORS BEFORE ORDERING
28. LOCATE ALL DIFFUSERS, GRILLES & REGISTERS ACCORDING TO ARCHITECTURAL REFLECTED CEILING PLAN.
29. 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.
30. SYSTEMS SHALL NOT BE USED FOR TEMPORARY HEATING OR COOLING DURING CONSTRUCTION.
31. PROVIDE CEILING ACCESS PANELS FOR ALL VOLUME DAMPERS AND ALL VALVES ABOVE GYP. BOARD CEILINGS.
32. 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.
33. ALL MECHANICAL EQUIPMENT AND MATERIALS SHALL BE INSTALLED AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.



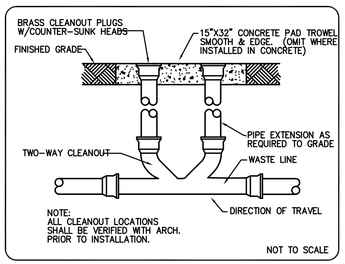
PLUMBING AND HVAC FLOOR PLAN
SCALE: 1/4" = 1'-0"



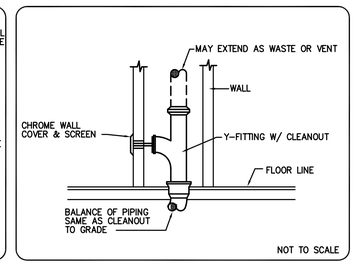
CEILING EXHAUST FAN — 5 / MP-1

GENERAL PLUMBING NOTES

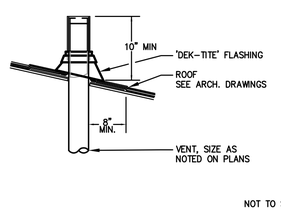
1. COMPLY WITH ALL LOCAL, COUNTY, STATE AND FEDERAL CODES, ORDINANCES, RULES AND REGULATIONS.
2. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
3. USE 95-5 TIN-ANTIMONY SOLDER ON ALL SOLDERED JOINTS 1/2" THROUGH 2" . PREPARE JOINTS WITH SOLVENT AND EMERY CLOTH.
4. CONTRACTOR TO EXTEND WATER PIPING TO ALL FIXTURES, OUTLETS, AND EQUIPMENT. PROVIDE SHUT-OFF VALVES OR FIXTURE STOPS, AS REQUIRED FOR PROPER SERVICE.
5. SIZE ALL HANGERS ON INSULATED LINES TO FIT AROUND OUTSIDE DIAMETER OF INSULATION SPECIFIED WITH ALLOWANCES FOR GALVANIZED SHEET METAL SHIELD.
6. INSTALL DIELECTRIC FITTING BETWEEN FERROUS AND NON-FERROUS MATERIALS.
7. PIPE RELIEF DRAIN FOR WATER HEATER TO OUTSIDE OR APPROVED RECEPTACLE.
8. SOIL AND WASTE PIPING SHALL BE SCHEDULE 40 ABS OR PVC PIPE.
9. 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 DRAWINGS.
10. EACH VENT 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.
11. 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.
12. GAS PIPING JOINTS SHALL BE THREADED, EXCEPT PIPING 2 1/2" AND LARGER SHALL BE WELDED.
13. 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.
14. ADEQUATELY SUPPORT ALL PIPE AGAINST SAGGING, POCKETING, SWAYING AND DISPLACEMENT. PROPERLY SPACE AND APPLY HANGERS PER CODE.
15. 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.
16. 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.
17. WATER PIPING SHALL BE WIRSBO AQUAPEX OR EQUAL ABOVE SLAB IN WALLS AND BELOW SLAB.
18. INSTALL 4" BACK WATER VALVE ON SEWER LINE IF REQUIRED.
19. EVAP COOLER DRAIN PIPING TO BE TYPE "M" HARD DRAWN COPPER.
20. OUTSIDE CONDENSATE DRAINS TO BE TYPE "M" HARD DRAWN COPPER.
21. DOMESTIC HOT WATER PIPE & RECIRC LOOP TO BE INSULATED WITH 1/2" WALL ARMORFLEX INSULATION.
22. PROVIDE ACCESS PANELS FOR ALL VALVES IN WALLS & ABOVE GYP. BOARD CEILINGS.
23. ALL PLUMBING EQUIPMENT, VALVES, PUMPS, FIXTURES, ETC. SHALL BE INSTALLED AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.



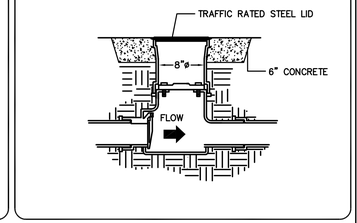
2-WAY SURFACE CLEANOUT — 1 / MP-1



WALL CLEANOUT — 2 / MP-1



VENT THRU ROOF DETAIL — 3 / MP-1



TRAFFIC RATED WASTE/BACKWATER VALVE — 4 / MP-1

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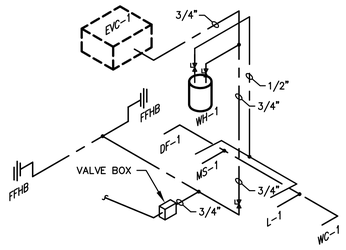
ARCHITECTURE & PLANNING

DRAWING:
PROJECT: Yavapai Mechanical Proposed Building, 5900 N. Fulton Dr., Prescott Valley, AZ 86314
APN: 103-33-297C

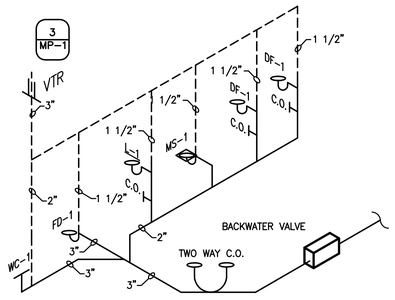
DRAWN BY	
CHECKED BY	
DATE	November 13th, 2019
JOB NO.	746
SHEET	MP-1

Feb 22, 2020 - 7:24pm



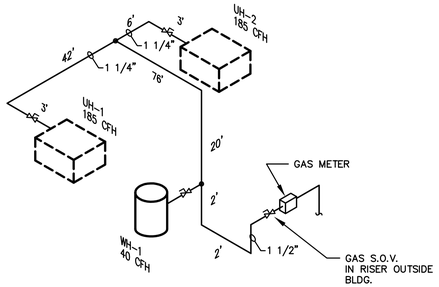
DOMESTIC WATER SCHEMATIC

SCALE: N.T.S.



WASTE & VENT SCHEMATIC DIAGRAM

SCALE: N.T.S.



NATURAL GAS SCHEMATIC

SCALE: N.T.S.

NATURAL GAS PIPE
SIZING METHODOLOGY

1. BASED UPON CURRENT IFGC, CHAPTER 4 & TABLE 402.4(2)
2. TDL – 145'
3. TOTAL LOAD – 380–MBH

(BASED UPON SINGLE LONGEST RUN & TOTAL CFH)

THRU-WALL MOUNTED HEAT PUMP

MARK	MANUFACTURER	MODEL	COOLING CAPACITY BTUH	HEATING CAPACITY BTUH	ENTERING AIR DB	ENTERING AIR WB	CFM	VOLTAGE/PHASE	REMARKS
PTAC–1	LG	LP093HDUC1	9,000	9,000	80	67	380	230/1 3.7A	

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	RPM	ESP	HP/WATTS	VOLTS/PH	MAX. SONES	WT. LBS.	AREA SERVED	REMARKS
EF–1	GREENHECK	SP–7	98	950	.250"	80 W	115/1		10	TOILET	①② CEILING EXHAUST FAN

① PROVIDE W/ BACK DRAFT DAMPER ② PROVIDE W/ MANUAL SWITCH ③ PROVIDE FACTORY ROOF CURB

GRILLES / REGISTERS / DIFFUSERS SCHEDULE

MARK	MANUFACTURER	DESCRIPTION	MODEL	FRAME	MODULE	O.B.D.	FINISH	REMARKS
D–1	KRUEGER	CEILING DIFFUSER	–	LAY–IN/ DRYWALL	20X20/ 12X12	NO	OFF WHITE	STEEL CONSTRUCTION
WL–1	RUSKIN	WALL LOUVER	L330	– –	–	–	GALV.	4" DEEP BLADES @ 30° ANGLE, 1/4" GALV. SCREEN
R–1	KRUEGER	RETURN	–	GYP. BOARD/ LAY–IN	20X20	YES	OFF WHITE	0° DEFLECTION

GAS UNIT HEATER SCHEDULE

MARK	MODEL	BTUH – INPUT	CFM	FAN TYPE	HP	VOLTAGE/PHASE	REMARKS
UH–1,2	RENZOR B–165	165,000	2715	CENT. BLOWER	1/2	115/1	SPARK IGNITION, REMOTE T'STAT, 120/24 VOLT CONTROL POWER TRANSFORMER

EVAPORATIVE COOLER SCHEDULE

MARK	MANUFACTURER	MODEL	TOTAL CFM	E.S.P.	ELECTRICAL FAN HP	ELECTRICAL V/PH	REMARKS
EVC–1	PHOENIX	AERO COOL	25,000	.2	5	208/3	PROVIDE CUSTOM CURB CONTROL WITH 6–POSITION SWITCH

SPECIAL NOTE:
ALL EQUIPMENT, BOTH HVAC AND PLUMBING SHALL BE SELECTED OR APPROVED BY THE OWNER

OUTSIDE AIR REQUIRED

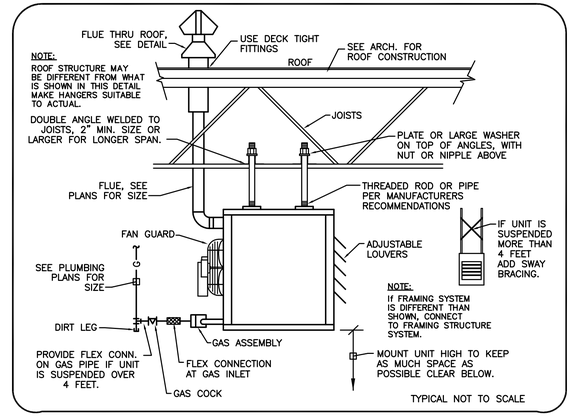
	OCCUPANCY	REQUIRED AIR
OFFICE SPACE 80 SQ. FT.	2	15 CFM
WAREHOUSE 4290 SQ. FT.	3	300 CFM

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER	FITTING	ACCESSORIES/ REMARKS	COLD WATER	HOT WATER	WASTE	VENT	QUANTITY OF FIXTURES	WATER F.U. EACH	WATER F.U. TOTAL	WASTE F.U. EACH	WASTE F.U. TOTAL
WC–1	WATER CLOSET (HANDICAPPED)	MANSFIELD 137–160, 18" HIGH	FLUSH HANDLE ON WIDE SIDE OF ROOM	FLOOR MOUNTED, ELONGATED BOWL, FLUSH TANK, 1.6 GPF OPEN–FRONT TOILET SEATS A.D.A. COMPLIANT	1/2"	–	3"	2"	1	5	5	6	6
L–1	LAVATORY (HANDICAPPED)	MANSFIELD 2018HB	DELTA 2593 A.D.A.	20"X18" WALL–HUNG, A.D.A. COMPLIANT INSULATE TRAP & WATER SUPPLIES	1/2"	1/2"	1–1/2"	1–1/2"	1	2	2	2	2
DF–1	DRINKING FOUNTAIN	ELKAY LZSTL8C	–	A.D.A. COMPLIANT, 1/5 H.P. COMP. 120 VOLT, 8.0 GPH	1/2"	–	2"	1–1/2"	1	2	2	2	2
MS–1	MOP SINK	FIAT MSB–2424	FIAT 830AA	24"X24"X 10"DEEP,	1/2"	1/2"	3"	2"	1	4	4	2	2
FFHB	FROST FREE HOSE BIBB	WOODFORD B–65	–	INTEGRAL ANTI–SIPHON VACUUM BREAKER	3/4"	–	–	–	2	5	10	–	–
WH–1	WATER HEATER	RHEEM 6UT09	EXPANSION TANK	6GAL. 3,000 KW 12.5A 240/1	3/4"	3/4"	–	–	1	–	–	–	–
FD–1	FLOOR DRAIN	WADE 1102STD5 WADE 1103STD6	–	TRAP W/TRAP SEAL DEVICE MI–GARD–2 MI–GARD–3	–	–	2" 3"	1–1/2" 1–1/2"	1	–	–	2	2
TOTAL	*FFHB NOT INCLUDED										13	–	14

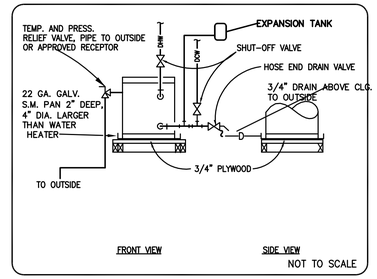
PLUMBING PIPING LEGEND

	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATION
	WASTE LINE
D	CONDENSATE DRAIN
AUX D.	AUXILIARY DRAIN
G	GAS LINE
	WIRSBO



UNIT HEATER (GAS FIRED) — 1 / MP-2

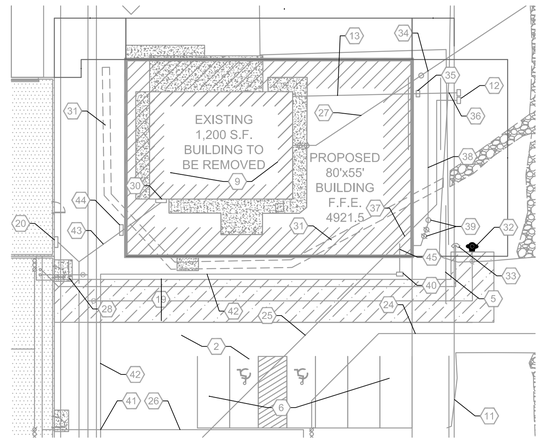
NOT USED — 2 / MP-2



WATER HEATER DETAIL — 3 / MP-2

PARTIAL SITE PLAN NOTES

23. EXISTING SEWER MAIN.
24. EXISTING SEWER LINE.
25. EXISTING NATURAL GAS LINE.
26. EXISTING WATER LINE.
27. ABANDON PORTION OF EXISTING WASTE LINE.
28. BELOW GRADE DUCTILE IRON FIRE LINE.
29. TRASH DUMPSTER.
30. EXISTING SES TO BE RELOCATED TO PROPOSED BUILDING.
31. EXISTING CONCRETE VALLEY GUTTER TO BE REMOVED.
32. FIRE HYDRANT.
33. FIRE DEPARTMENT CONNECTION.
34. POINT OF CONNECTION FOR SEWER TIE-IN.
35. PROVIDE NATURAL GAS METER SHUT OFF VALVE, REFER TO PLUMBING PLANS.
36. EXISTING NATURAL GAS LINE TO REMAIN.
37. FIELD LOCATE EXISTING NATURAL GAS LINE AND RELOCATE AS REQUIRED.
38. PROVIDE 3" SDR 35 WASTE LINE.
39. PROVIDE 3" BACKWATER VALVE AND 2-WAY CLEANOUT.
40. BELOW GRADE WATER SHUT OFF VALVE IN CONCRETE YARD BOX.
41. POINT OF CONNECTION FOR WATER TIE-IN.
42. PROVIDE 3/4" SCHEDULE 40 PVC WATERLINE FROM EXISTING WATER METER / WATER YARD LINE.
43. EXISTING BELOW GRADE ELECTRIC LINE.
44. RELOCATED ELECTRICAL SERVICE ENTRANCE SECTION.
45. PROVIDE 3/4" COPPER WATER LINE INTO BUILDING, REFER TO PLUMBING PLANS.



PARTIAL SITE PLAN

SCALE: 1"=20'-0"

DESIGN ENGINEERING OPERATIONS
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Feb 03, 2020 - 9:26am

REVISIONS	BY
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ARCHITECTURE & PLANNING

DRAWING: MECHANICAL AND PLUMBING

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY	WR/CW
CHECKED BY	SR
DATE	November 13th, 2019
JOB NO.	746
SHEET	MP-2

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Angelo V. Ossanna
REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO. 7450
ANGELO OSSANNA
Date signed 9/3/20
ARIZONA, U.S.A.
EXPIRES 12/30/2021

ELECTRICAL SYMBOLS

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT

- A/a — FLUORESCENT FIXTURE, WITH FIXTURE DESIGNATED BY LETTER. SMALL LETTER INDICATES SWITCH LEG
- NL — NIGHT LIGHT– NOT SWITCHED
- FLUORESCENT STRIP FIXTURE.
- CEILING OR WALLMOUNTED FIXTURE.
- PC — PORCELAIN PULL CHAIN FIXTURE
- J — JUNCTION BOX
- J — JUNCTION BOX WITH FLEX CONNECTION.
- SINGLE FACE EXIT SIGN– NOT SWITCHED
- DOUBLE FACED EXIT SIGN– NOT SWITCHED.
- TWO HEAD EMERGENCY LIGHT WITH BATTERY.
- POLE–MOUNTED FIXTURE – No. OF LUMINAIRES AS SHOWN & SCHEDULED
- S — SINGLE POLE SWITCH, + 48" A.F.F. (20A–120/277V)
- S_3 — THREE WAY SWITCH, + 48" A.F.F. (20A–120/277V)
- S_4 — 4–WAY SWITCH +48" AFF (20A–120/277V)
- S_P — SWITCH AND PILOT LIGHT (20A–120–/277V)
- S_K — SINGLE POLE SWITCH, KEY OPERATED (20A)
- DIMMER CONTROL, + 48" A.F.F. EQUAL TO LUTRON "NOVA" SERIES, SIZED TO MATCH LOAD SERVED
- VS — VARIABLE SPEED FAN CONTROL, +48" A.F.F.
- DUPLEX RECEPTACLE, + 18" A.F.F. (20A)
- DUPLEX RECEPTACLE ABOVE COUNTER, VERIFY HEIGHT. (20A)
- FOURPLEX RECEPTACLE, + 18" A.F.F. (20A)
- SPECIAL RECEPTACLE – SIZE & TYPE AS NOTED
- POWER FLUSH FLOOR OUTLET
- TELEPHONE OUTLET PLASTER RING AT + 18" A.F.F. HUBBELL #P12 COVERPLATE. 3/4"C TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
- DATA SYSTEM OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, + 18" A.F.F.
- TELE/DATA COMBO OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, + 18" A.F.F.
- CABLE TELEVISION (CATV) OUTLET PLASTER RING AT + 18" A.F.F. U.N.O. HUBBELL COVERPLATE. 3/4"C TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
- T — TELPHONE SYSTEM CONDUIT HOMERUN WITH NYLON PULLWIRE (1"C MIN UNO)
- TV — CLOSED CIRCUIT TV (CCTV) OUTLET SAME AS CATV OUTLET
- DOOR CHIME
- REMOTE CONTROL STATION @ +48" AFF
- DISCONNECT SWITCH, FUSE PER EQUIPMENT MANUFACTURERS RECOMMENDATION. OUTSIDE NEMA 3R – N.F. = NON–FUSED.
- COMBINATION STARTER AND FUSIBLE DISCONNECT SWITCH SIZE AS NOTED
- E — EQUIPMENT TERMINATION CONNECTION POINT VERIFY EXACT LOCATION LOAD AND VOLTAGE AS NOTED
- MOTOR
- SM — THERMAL PROTECTED SWITCH
- MOTOR STARTER – SHADING INDICATES F.B.O.
- DISTRIBUTION PANELBOARD.
- BRANCH CIRCUIT PANELBOARD.
- CONDUIT BELOW FLOOR OR UNDERGROUND
- CONDUIT IN WALL OR ABOVE CEILING
- HOMERUN TO PANEL, NEUTRAL AND PHASE WIRING DESIGNATION (SEE GROUNDING NOTE)
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT STUB–OUT, MARK AND CAP AS DIRECTED
- GROUND WIRE (SIZE AS NOTED) EXTENDED AND CONNECTED TO APP'D GROUND

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

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

OUTLET MOUNTING HEIGHTS PER AMERICAN DISABILITY ACT

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

OUTLETS INSTALLED IN FIREWALLS

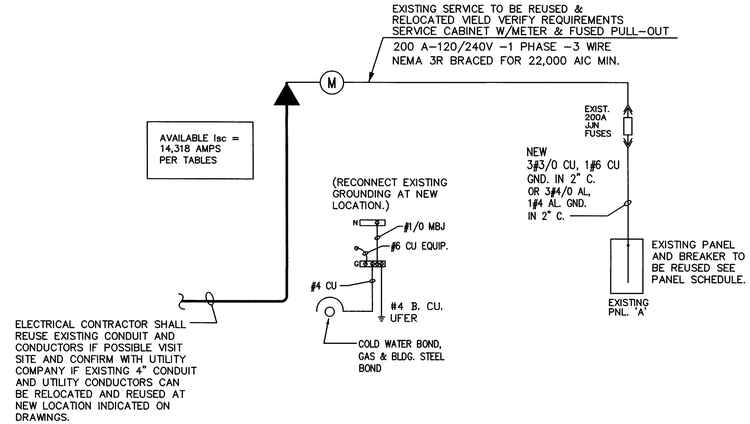
OUTLETS, (SWITCHES, RECEPTACLES, ETC), MOUNTED IN FIRE RATED WALLS SHALL NOT OCCUPY THE SAME WALL CAVITY WITH OTHER OUTLES WHETHER ON SAME SIDE OR BACK-TO-BACK. RECOMMENDED SPACING IS 24 INCHES HORIZONTAL O/C.

SPECIFICATIONS

1. 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.
2. 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.
3. 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.
4. PRIOR TO ROUGH–IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT.
5. GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.
6. 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.
7. ALL WIRING TO BE INSTALLED IN RACEWAYS. TYPE OF RACEWAY SHALL BE AS REQUIRED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
8. PROVIDE CODE SIZED BOND WIRE IN ALL EMT, FLEXIBLE CONDUIT, OR NM CABLES.
9. ALL ELECTRICAL EQUIPMENT SHALL BE NEW , U.L. APPROVED AND COMMERCIAL GRADE.
10. WIRE RATED FOR 150° CENTIGRADE SHALL BE USED FOR ALL INCANDESCENT LIGHTING FIXTURES.
11. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL CODE, (N.E.C.), AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
12. PROVIDE TYPEWRITTEN DESCRIPTIVE PANEL DIRECTORIES

FIRE WALL/FLOOR PENETRATION

ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALL–ATION DETAIL THAT CONFORM TO UNDERWRITERS LABOR–ATORY'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.

PANELBOARD A SCHEDULE

MAINS: 200A MLO
VOLTAGE: 120/240V, 1Ø, 3W
TYPE: EXISTING GE
LOAD–VA
LOCATION: SEE PLAN
MOUNTING: FLUSH
MIN. A.I.C.: 10,000

CIRCUIT DESCRIPTION	BKR.	CIR. NO.	ØA	ØB	CIR. NO.	BKR.	CIRCUIT DESCRIPTION
LIGHTS.	20/1	1	1250		2	20/1	RECEPT'S.
		3	1080	1250	4		
		5	1250	1260	6		
		7	720	350	8		
– EXTERIOR		9		720	10		
SPARE		11	900		12		
SPARE		13	200	1080	14		SPARE
UNIT HEATER		15		200	16		
UNIT HEATER		17	200		18		
FIRE ALARM SYSTEM		19		1250	20		
ELECTRIC WATER HEATER	20/2	21	1250		22	60/2	EVAP COOLER BY OWNER
2.5KW, 240V, 1Ø		23	3360	1200	24	2	VERIFY SIZE & ELEC. REQUIREMENTS
PTAC A/C WALL UNIT	20/2	25	1200	3360	26	50/2	SPARE
VERIFY SIZE & REQUIREMENTS		27		1200	28		
PTAC A/C WALL UNIT	20/2	29	1200		30		SPACE
VERIFY SIZE & REQUIREMENTS		31		1200	32		
PTAC A/C WALL UNIT	20/2	33	1200		34		
SPACE		35			36		
		37			38		
		39			40		
		41			42		
TOTAL LOAD PER PHASE:			13810	12850	HI@ 12610 / 120V = 105.1 AMPS		

PANELBOARD SYMBOLS

- ✱ CONTINUOUS DUTY/LARGEST MOTOR @ 125%
- ● PROVIDE BREAKER W/ HANDLE "LOCK–ON" DEVICE
- ◆ CIRCUIT VIA TIMECLOCK
- ▲ CIRCUIT VIA PHOTOCELL
- □ HACR TYPE CIRCUIT BREAKER
- ⬡ EXISTING BREAKER W/ NEW LOAD
- ○ EXISTING BREAKER W/ EXISTING LOAD
- △ NEW BREAKER W/ NEW LOAD

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ARCHITECTURE & PLANNING

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

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY
CHECKED BY
DATE: November 13th, 2019
JOB NO.: 746
SHEET: E1.0

Mar 03, 2020 - 12:56pm

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REVISIONS	BY
1 Town Comments 4-18-2020	RA/AO

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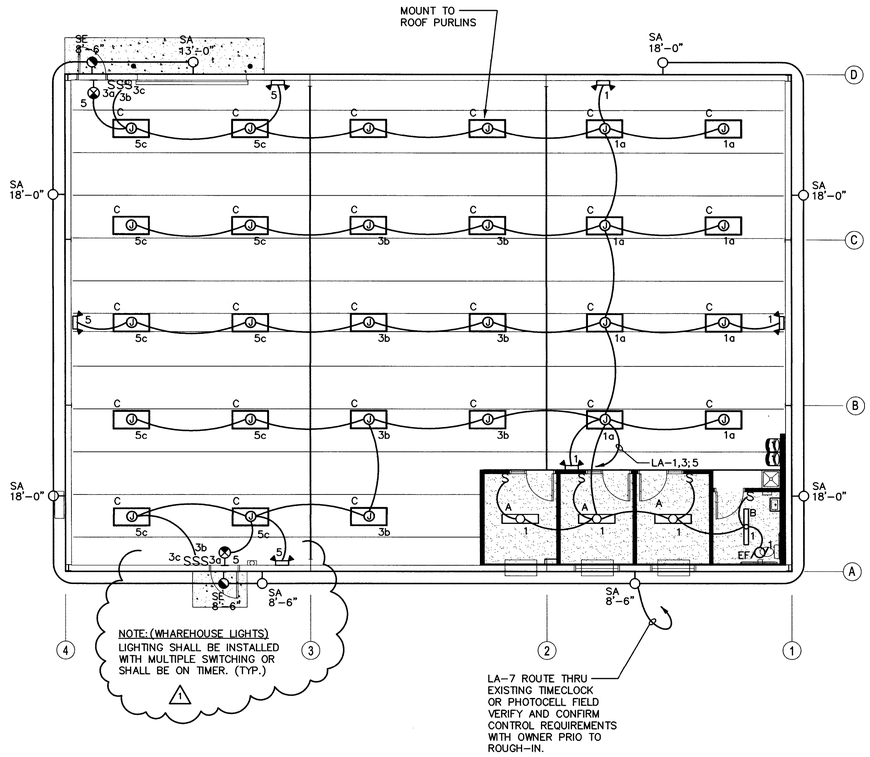
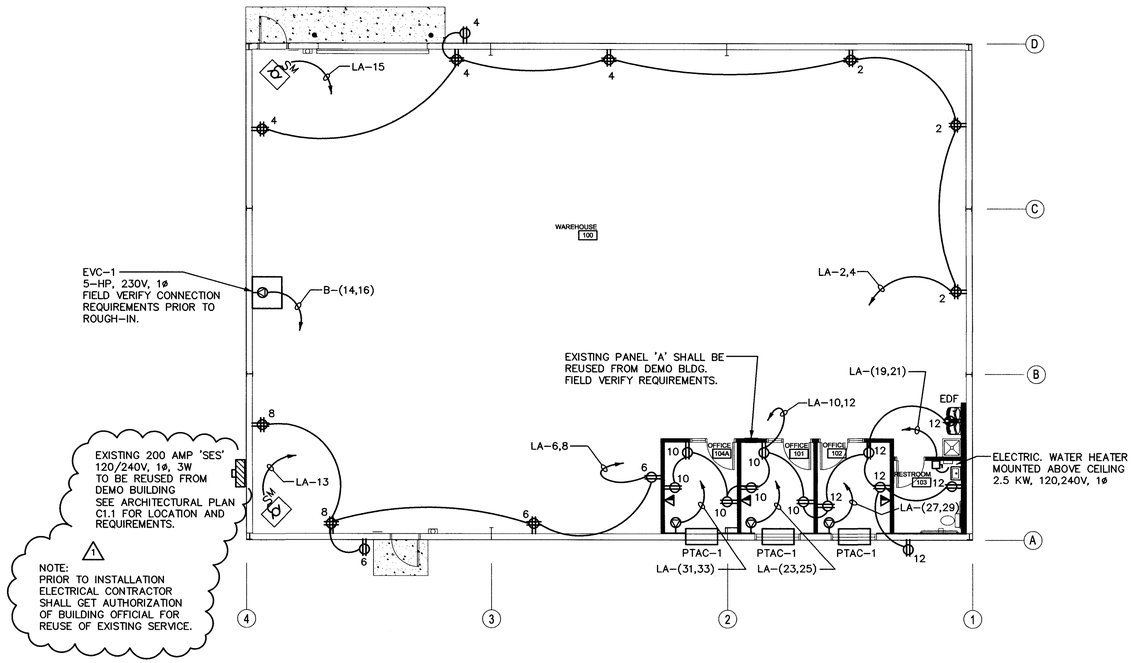


First Floor Lighting Plan

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

Plan North



First Floor Power Plan

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

Plan North

GENERAL LIGHTING NOTES:

1. IF ELECTRICAL CONTRACTOR IS NOT CERTAIN OF MOUNTING HIEGHT OR LOCATION OF ANY LIGHTING FIXTURES OR SWITCHES HE IS TO VERIFY ITEMS WITH ELCTRICAL 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.

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.

EXIT / EMERGENCY SCHEDULE

Symbol	Manufacturer	Catalog Number	Description	Lamp	Wattage
	Lithonia Lighting	LHQM LED R HO	QUANTUM LED EMERGENCY FIXTURE	LED	3
	Lithonia Lighting	ELMLT W LP06VS LTP	QUANTUM LED EMERGENCY TWIN-HEAD UNIT WALL MOUNT	LED	10.8

Schedule

Symbol	Label	Manufacturer	Catalog Number	Description	Lamp	Lumens Per Lamp	Light Loss Factor	Wattage
	A	Lithonia Lighting	BLWP4 40L ADSM GZ1 LP835	LINEAR LED SURFACE MOUNT WRAP -	LED	4040		34
	B	Lithonia Lighting	CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI (FINISH) (MOUNTING)	4' LED STRIP LIGHT	LED	2813	0.91	20.32
	C	Lithonia Lighting	IBG 2ft 15000LM SEF GND ACL 35K 80CRI	IBG 2ft 15000LM SEF GND ACL 35K 80CRI	LED	IBG_2ft_12000LM_SEF_GND_ACL_35K_80CRI.ies	11782	90.28
	SA	Lithonia Lighting	WST LED P1 30K VF MVOLT DDBXD	FULL CUT-OFF LED WALL MOUNT - AS NOTED	LED			25
	SE	Lithonia Lighting	WST LED P1 30K VF MVOLT E7WH DDBXD	FULL CUT-OFF LED WALL MOUNT - AS NOTED - WITH BATTERY BACK-UP	LED			25

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ARCHITECTURE & PLANNING

DRAWING: Lighting & Power Floor Plan With Notes

PROJECT: Yavapai Mechanical Proposed Building
5900 N. Fulton Dr.
Prescott Valley, AZ 86314

APN: 103-33-297C

DRAWN BY

CHECKED BY

DATE: November 13th, 2019

JOB NO. 746

SHEET

E1.1

Apr 18, 2020 - 5:49pm