JSC Contracting Building 'A'

PRESCOTT, ARIZONA

Deferred Submittals

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

1. Automatic Fire Sprinkler System.
2. Fire Alarm System.

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

Project Description

JSC Contracting intends to build a 12,000 s.f. metal building on their existing property. The owner will build out a suite with offices and a workroom with a potential of six additional suites to be leased out for light industrial use. Two exterior entrance single user restrooms will be provided along with two single user restrooms in the owner's proposed office suite. A future potential 12,000 s.f. adjacent building is planned with a future parking lot.

Vicinity Map

Graphic Standards

Aug 20, 2021 - 8:15am

Project Information

Owner:	JSC Contracting Inc. 230 N. McCormick St. Prescott, AZ 86301	Contact: Jim Simpson (928) 713-5999 jim@jsccontracting.com
Prepared by:	W. Alan Kenson & Associates, P.C. P.O. Box 11593 Prescott, AZ 86304	Contact: Alan Kenson 928-443-5812 waka@cableone.net
Contractor:	JSC Contracting LLC 418 N. Washington Ave. #C Prescott, AZ 86301	Contact: Jim Simpson (928) 713-5999 jim@jsccontracting.com
Jobsite Address:	6601 Inter Cal Way Prescott, AZ	
Parcel Number:	103-50-054B & 103-50-054C	
Lot Area:	3.33 Acres	
Zoning:	IL	
Current Code:	2018 International Building Code	
Proposed Building :	12,000 S.F.	
Occupancy:	F1 Factory Industrial Moderate Hazard	
Construction Type:	Type II-B	

PARKING CALCULATIONS

LIGHT MANUFACTURING 12,000 SF / 500 = 24 PARKING SPACES

TOTAL PARKING SPACES REQUIRED =24
TOTAL PARKING SPACES PROVIDED = 24

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E1.1	Electrical Site Plan
E1.2	Lighting Floor Plan
E1.3	Power Floor Plan

Architect:

W. Alan Kenson & Associates, P.C.

P 928-443-5812 P.O. Box 11593
F 928-443-5815 Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

REVISIONS

		BY
1	City of Prescott Comments 6/24/2021	LO

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REGISTERED ARCHITECT
CERTIFICATE NO.
25646
W. ALAN KENSON
Date Signed 04/27/21
ARIZONA
EXPIRES: 6/30/21

W. Alan Kenson & Associates, P.C.
P 928-443-5812 P.O. Box 11593
F 928-443-5815 Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Cover Sheet
PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301
APN: 103-50-054D

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	April 27th, 2021
JOB NO.	759
SHEET	CS1

Plumbing Calculations

OCCUPANCY CLASSIFICATION	OCCUPANCY COUNT	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK
STORAGE	20	.2	.2	1	1
BUSINESS	10	.4	.25		
TOTAL REQUIRED		.8	.76		
TOTAL PROVIDED		4	4	1	1

EXIT SIGNS:

- PROVIDE A 6"x9" BLUE TACTILE, BRAILLE, 'EXIT' SIGN AS MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980)' OR EQUAL COMPLYING WITH ICC/ANSI A117.1 SECTION 703.1 AND IBC 1013 & SECTION 1111, ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE.

FIRE DEPARTMENT NOTES:

- FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE (IFC) AND NFPA 10.
- HAZARDOUS MATERIAL INVENTORY STATEMENTS (HMIS) MUST BE COMPLETED AND SUBMITTED ALONG WITH THE MATERIAL SAFETY DATA SHEETS (MSDS) PROVIDED BY THE MANUFACTURER OF THE PRODUCTS AND MATERIALS FOR ALL HAZARDOUS MATERIALS ONCE THE OCCUPANTS OF THE SUITES ARE IDENTIFIED. THE HMIS FORM MAY BE FOUND ON THE CITY WEB SITE AT WWW.PRESCOTT-AZ.GOV/DOCUMENTS.
- DOOR HARDWARE TO MEET 2018 IFC AND IBC REQUIREMENTS FOR EGRESS.
- PROVIDE ADDRESS NUMBERS IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET FRONTING THE PROPERTY. THESES NUMBERS SHALL BE A MINIMUM OF 6 INCHES WITH CONTRASTING BACKGROUND.

1

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.)

Egress Legend:

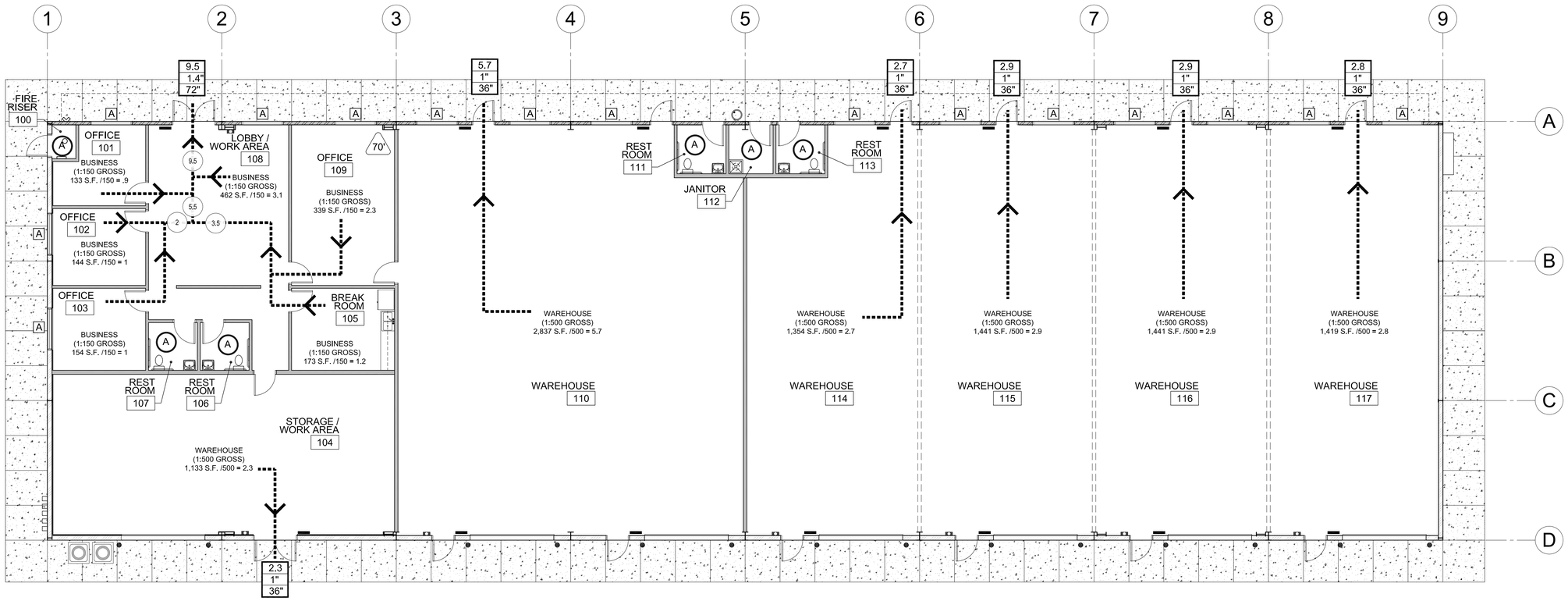
- EXIT ACCESS
- (A) ACCESSORY USE (NO OCCUPANCY)
- [XX] ROOM OCCUPANCY LOAD
- (XX) SUBTOTAL OCCUPANCY LOAD
- [XX] OCCUPANCY TOTAL
- [XX] REQUIRED EXIT WIDTH (FACTOR = 0.15)
- [XX] PROVIDED EXIT WIDTH
- (#) WORST CASE TRAVEL DISTANCE

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
WAREHOUSE	500 GROSS
OFFICE	150 GROSS

Occupant load

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

WAREHOUSE AREA	9,625 SQ. FT.	20 OCCUPANTS
OFFICE AREA	1,405 SQ. FT.	10 OCCUPANTS
TOTAL:	11,030 SQ. FT.	30 OCCUPANTS



A1 **Occupancy / Egress Plan**

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

Plan North

Aug 20, 2021 - 8:16am

REVISIONS	BY
1 City of Prescott Comments 6/24/2021	LO

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P 928-443-5812
F 928-443-5815
P.O. Box 11593
Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

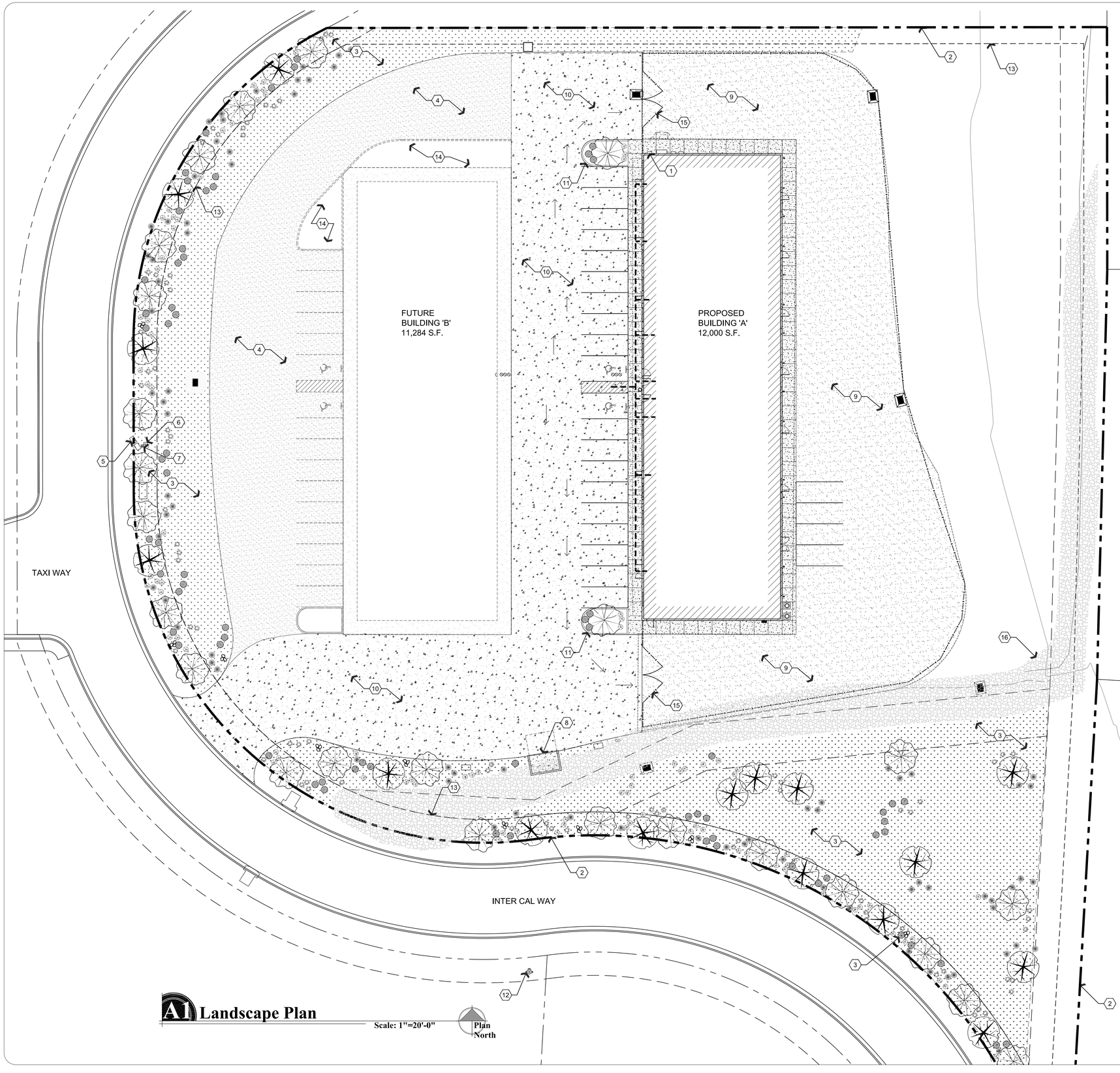
DRAWING: Occupancy / Egress Plan and Code Summary

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D

1

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	April 27th, 2021
JOB NO.	759
SHEET	CS2



Descriptive Keynotes

1. PROVIDE LANDSCAPE TIMER.
2. PROPERTY LINE.
3. LANDSCAPE AREA. PROVIDE GROUND COVER. REFER TO PLANT SCHEDULE NOTES.
4. FUTURE PAVEMENT.
5. DOMESTIC SERVICE WATER METER IN YARD BOX. REFER TO CIVIL PLANS.
6. BACKFLOW PREVENTOR FOR LANDSCAPE IRRIGATION SYSTEM. PROVIDE ASSE 1060 COMPLIANT FREEZE RESISTANT 'FAKE ROCK' COVER BOLTED TO CONCRETE SLAB. PROVIDE 120V DEDICATED ELECTRICAL CIRCUIT WITH WEATHERPROOF GFCI DUPLEX OUTLET WITHIN ENCLOSURE. REFER TO CIVIL AND ELECTRICAL PLANS PLANS.
7. 3/4" VALVED SCHEDULE 40 PVC STUB-OUT IN BELOW GRADE YARD BOX FOR LANDSCAPE IRRIGATION SYSTEM. REFER TO CIVIL PLANS.
8. DUMPSTER LOCATION. REFER TO ARCHITECTURAL SITE PLAN.
9. ABC OVER SUBGRADE. REFER TO CIVIL PLANS.
10. CONCRETE PAVEMENT / SLAB. REFER TO CIVIL PLANS.
11. CONCRETE CURB. REFER TO CIVIL PLANS.
12. EXISTING FIRE HYDRANT.
13. BUILDING SETBACK.
14. FUTURE LANDSCAPE AREA.
15. PROVIDE GATE. REFER TO ARCHITECTURAL PLANS.
16. EXISTING RIP RAP. REFER TO CIVIL PLANS.

Plant Schedule

SYMBOL	SIZE	QUANTITY	COMMON NAME / SCIENTIFIC NAME
	2' - 3'	9	BOULDER CLUSTER
	1 GAL	72	RED YUCCA
	1 GAL	88	PRAIRIE SAGE
	1 GAL	78	GRAY COTONEASTER 1
	1 GAL	70	DEER GRASS
	15 GAL	15	OKLAHOMA REDBUD 1
	15 GAL	26	DEODAR CEDAR

LANDSCAPED AREAS:
750 LINEAR FEET OF STREET FRONTAGE
1 TREE PER 25 LINEAR FEET REQUIRED (30)
TOTAL TREES PROVIDED: 41
37,900 SQ. FT. OF STREET FRONTAGE LANDSCAPED
4 SHRUBS PER 250 SQ. FT. REQUIRED (606)
TOTAL SHRUBS PROVIDED: 308

NOTES:
1. LANDSCAPE PLANTINGS SHALL BE WATERED VIA DRIP IRRIGATION SYSTEM ON LANDSCAPE TIME CLOCK.
2. PROVIDE BACKFLOW PREVENTOR FOR DRIP IRRIGATION SYSTEM.
3. SPRAY ALL GROUND COVER AREAS W/ PRE-EMERGENT FOR WEED CONTROL.
4. PROVIDE WEED BARRIER IN ALL PLANTER AREAS.
5. GROUND COVER IN ALL PLANTER AREAS SHALL BE 3/4" COLORED ROCK. WHERE SLOPES ARE TOO STEEP, PROVIDE 2" - 3" FRACTURED RIP RAP OF MATCHING COLOR.
6. REFER TO CIVIL PLANS FOR GRADING AND DRAINAGE.

Legend

- LANDSCAPE AREA
- ABC OVER SUBGRADE
- CONCRETE
- FUTURE CONCRETE

A1 Landscape Plan
Scale: 1"=20'-0"
Plan North

Aug 20, 2021 - 8:30am

REVISIONS	BY
1 City of Prescott Comments 6/24/2021	LO

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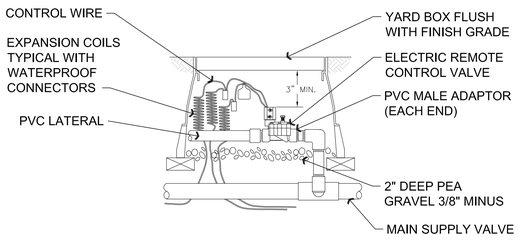
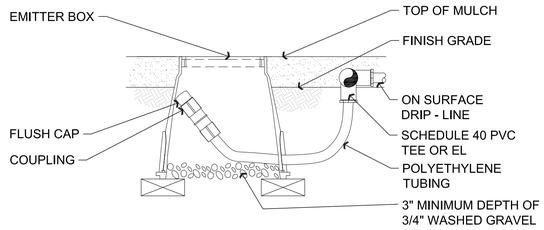
PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301
APN: 103-50-054D 1

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: April 27th, 2021
JOB NO.: 759
SHEET: L1.0



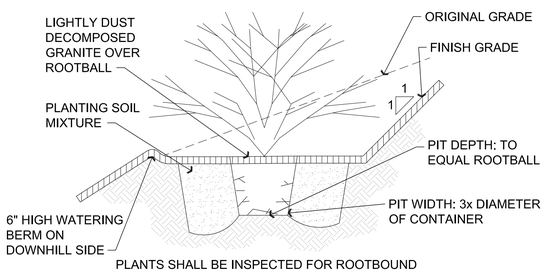
NOTE: SEAL ALL THREADED JOINTS / FITTINGS WITH APPROVED SEALANT PRIOR TO ASSEMBLY

A4 Typical Electric Remote Control Valve



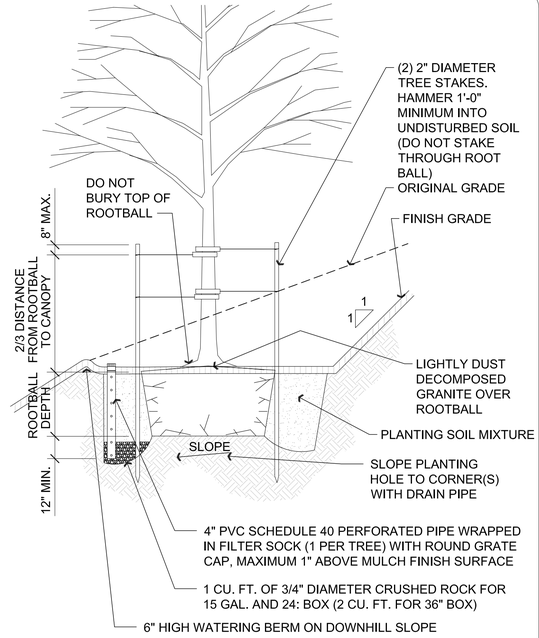
NOTE: ALLOW A MINIMUM 6" OF DRIP - LINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

B4 Typical Drip Line Flush Box



PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

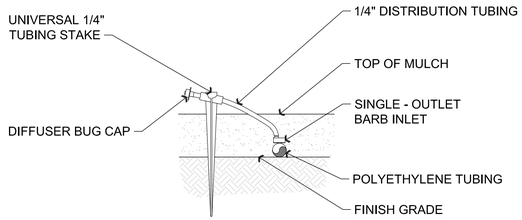
C4 Typical Shrub Planting on Slope



NOTE: STAKE TREE PERPENDICULAR TO DIRECTION OF PREVAILING WIND.

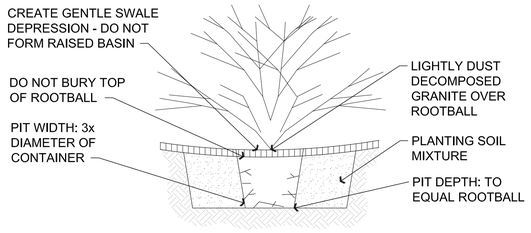
PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

D3 Typical Tree Planting on Slope



NOTE: FOR SLOPED CONDITIONS PLACE DISTRIBUTION POINT AT THE HIGH POINT OF THE PLANTING WELL.

B3 Typical Single - Port Emitter



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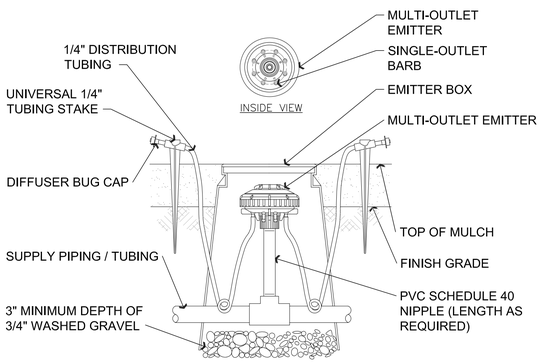
C3 Typical Shrub Planting

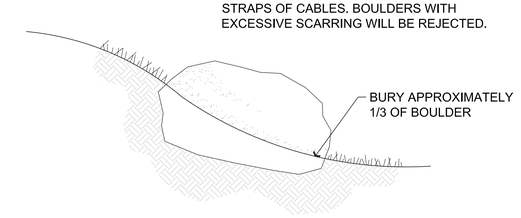


NOTE: COIL ADDITIONAL 9" OF TUBING IN EMITTER BOX TO FACILITATE MAINTENANCE.

INSTALL A MINIMUM OF (1) MULTI-PORT EMITTER PER TREE - EQUALLY SPACED AROUND DRIP LINE OF TREE CANOPY TYPICAL. OPEN ADDITIONAL PORTS AND INSTALL SPAGHETTI DISTRIBUTION TUBING TO PROVIDE ADEQUATE WATER AS TREE MATURES, (TYP.)

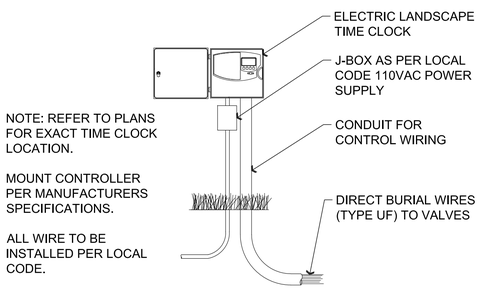
FOR SLOPED CONDITIONS PLACE DISTRIBUTION POINT AT THE HIGH POINT OF PLANTING WELL.

B1 Typical Multi - Port Emitter

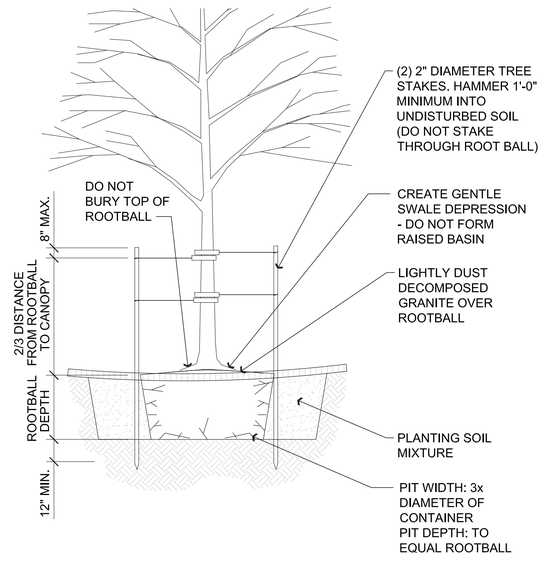


FOR SIZING OF BOULDERS REFER TO LANDSCAPE SCHEDULE

C2 Typical Boulder Detail



C1 Typical Electric Landscape Time Clock



NOTE: STAKE TREE PERPENDICULAR TO DIRECTION OF PREVAILING WIND.

PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

D1 Typical Tree Planting

Aug 20, 2021 - 8:15am

REVISIONS	BY

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P O. Box 11593
P 928-443-5812
F 928-443-5815
Prescott, AZ 86304
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ARCHITECTURE & PLANNING

DRAWING: Landscape Details

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D

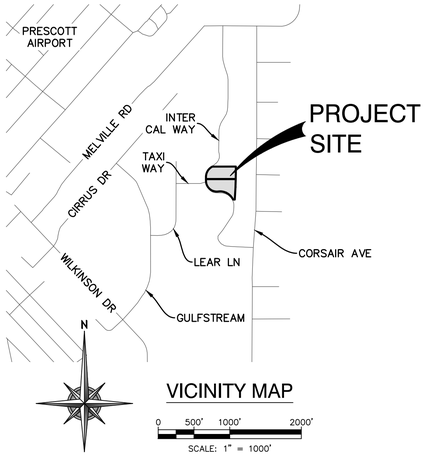
1

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	April 27th, 2021
JOB NO.	759
SHEET	L0.1

JSC CONTRACTING BUILDING 'A'

CIVIL IMPROVEMENT PLANS

APN: 103-50-054B & 103-50-054C, PRESCOTT AIRPARK UNIT 9 REPLAT 1 LOTS 67-68
SITUATED IN A PORTION OF SECTION 30, TOWNSHIP 15 NORTH, RANGE 1 WEST GILA AND SALT RIVER MERIDIAN
CITY OF PRESCOTT, YAVAPAI COUNTY, ARIZONA



VICINITY MAP

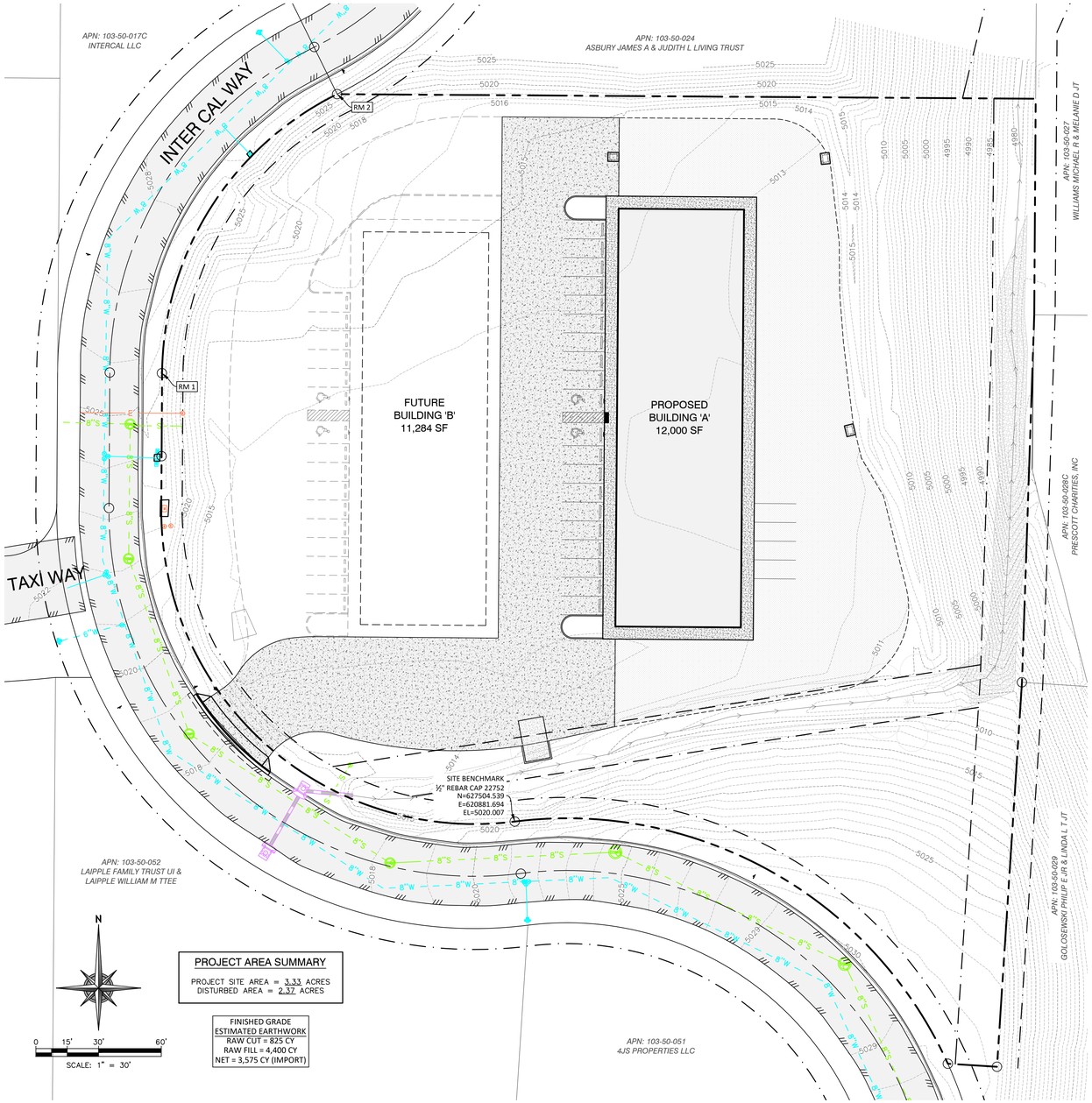
UTILITY CONTACT INFORMATION			
UTILITY	**COMPANY**	**CONTACT**	**PHONE**
ELECTRIC/POWER	ARIZONA PUBLIC SERVICE 6672 CORSAIR AVENUE PRESCOTT, AZ 86301	MONIQUE HOLLIDAY	(928) 443-6612
PHONE/COMMUNICATION	CENTURYLINK 1445 MASONRY WAY PRESCOTT, AZ 86301	DELL HOWARD	(928) 649-9318
NATURAL GAS	UNISOURCE 6405 WILKINSON DRIVE PRESCOTT, AZ 86301	MALI ROSS	(928) 771-7227
CABLE TELEVISION	SPARKLIGHT 3801 TOWER ROAD PRESCOTT, AZ 86305	DOUG HAMILTON	(928) 443-3305
WATER & SEWER	CITY OF PRESCOTT P.O. BOX 2059 PRESCOTT, AZ 86301	ERIC BAY	(928) 777-1130

Call at least two full working days before you begin excavation.
ARIZONA 811 Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

FLOODPLAIN NOTE

THIS PROJECT IS LOCATED ON FEMA FLOOD INSURANCE RATE MAP (FIRM) 040225C1693H, EFFECTIVE MARCH 6, 2018 AND IS NOT IMPACTED BY THE FEMA DELINEATED 100-YR FLOODPLAIN.

PROJECT BASIS OF BEARING			
THE BASIS OF BEARING FOR THIS PROJECT IS N32°06'48"E A DISTANCE OF 157.51 FEET ALONG THE CHORD FOR THE NORTHWESTERLY RIGHT OF WAY CURVE FOR THE FORMER LOT 68 BETWEEN TWO 1/2" REBARS WITH CAP RLS 22752			
REFERENCE MARK	**NORTHING**	**EASTING**	**ELEVATION (88)**
RM 1	627719.156	620712.897	5025.189
RM 2	627852.685	620796.701	5026.217
THE COORDINATES AS DEPICTED HEREON REFLECT THE CITY OF PRESCOTT COORDINATE SYSTEM AS PUBLISHED BY THE CITY OF PRESCOTT AND AVAILABLE ON THEIR WEBSITE.			



PROJECT AREA SUMMARY

PROJECT SITE AREA = 3.33 ACRES
DISTURBED AREA = 2.37 ACRES

FINISHED GRADE ESTIMATED EARTHWORK
RAW CUT = 825 CY
RAW FILL = 4,400 CY
NET = 3,575 CY (IMPORT)

LOCATION MAP

PROJECT OWNER
JSC CONTRACTING, INC.
230 N. McCORMICK STREET
PRESCOTT, ARIZONA 86301

ARCHITECT
W. ALAN KENSON & ASSOCIATES, P.C.
P.O. BOX 11593
PRESCOTT, ARIZONA 86304
(928) 443-5812

CIVIL ENGINEER
GRANITE BASIN ENGINEERING, INC
1981 COMMERCE CENTER CIRCLE, SUITE B
PRESCOTT, ARIZONA 86301
(928) 717-0171
CONTACT: BEN B. HUZA, P.E.
GBE PROJECT #20113

SHEET INDEX		
NUMBER	**SHEET**	**SHEET TITLE**
1	C1	COVER
2	C2	GENERAL NOTES
3	C3	STANDARD DETAILS
4	C4	STANDARD DETAILS
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APPROVED BY

CITY ENGINEER _____ DATE _____

UTILITIES MANAGER _____ DATE _____

NOT YET CONSTRUCTED

AS-BUILT CERTIFICATION

I HEREBY CERTIFY, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS PROJECT HAS BEEN COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND REFERENCED STANDARDS, EXCEPT AS SHOWN HEREON; THAT THESE AS-BUILT PLANS REFLECT THE POSITION OF CONSTRUCTED IMPROVEMENTS BASED ON FIELD MEASUREMENTS; AND THAT THE MATERIALS USED IN CONSTRUCTION ARE AS SHOWN BASED ON FIELD OBSERVATION AND TEST RESULTS.

REVISIONS	BY
1 COP ROUND 1 COMMENTS	BH

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Registered Professional Engineer
CERTIFICATE NO.
45636
BEN B. HUZA
Date Signed 9/28/21
ARIZONA, U.S.A.
Expires 12/31/21

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: CIVIL IMPROVEMENT PLANS
COVER

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY	BH
CHECKED BY	BH
DATE	September 28, 2021
JOB NO.	759
SHEET	C1

Sep 28, 2021 - 4:38pm FILE: Z:\Projects\2020\20113\DWG\CIVIL PLANS\20113-01-COVER.dwg <<C30_Imperial>>

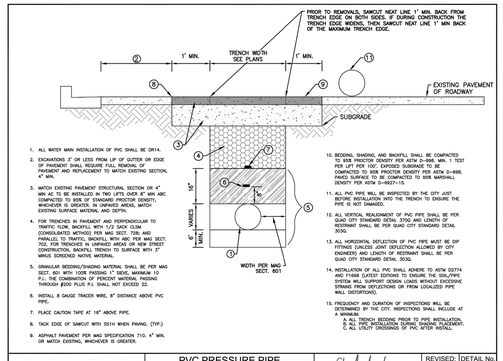
1. ALL CONSTRUCTION SHALL CONFORM TO MARICOPA ASSOCIATION OF GOVERNMENTS (MAG), & CITY OF PRESCOTT (COP) CONSTRUCTION STANDARDS & SPECIFICATIONS, LATEST REVISIONS UNLESS SPECIFICALLY APPROVED IN WRITING OTHERWISE AND NOTED ON THE PLANS, IN CONJUNCTION WITH THE LATEST REVISIONS OF THE MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS (MAG STANDARDS), UNLESS SPECIFICALLY MODIFIED ON THE PLANS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF MAG AND CITY OF PRESCOTT STANDARDS AND SPECIFICATIONS AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS NECESSARY TO COMPLETELY AND ACCURATELY INTERPRET THESE PLANS.
3. ALL PLANS APPROVED BY THE CITY ENGINEER ARE NULL AND VOID ONE YEAR FROM DATE OF APPROVAL IF CONSTRUCTION HAS NOT STARTED. RESUBMITTAL AND REVIEW SHALL BE REQUIRED, AFTER ONE YEAR.
4. ALL QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT VERIFIED BY THE PUBLIC WORKS DIRECTOR, AND ARE FURNISHED SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT SHALL BE BASED ON BID SCHEDULE ITEMS FOR ACTUAL QUANTITIES PROVIDED AND INSTALLED. THE CONTRACTOR SHALL NOT BE RELIEVED OF HIS RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING WORK QUANTITIES PRIOR TO BIDDING.
5. USE OF PRESCOTT PUBLIC WORKS DEPARTMENT PERMIT(S) WILL BE REQUIRED FOR ALL OFF-SITE CONSTRUCTION AND CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AT HIS OWN EXPENSE, SUCH PERMITS AS ARE REQUIRED FROM THE APPROPRIATE AGENCIES.
7. THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION IN THE PUBLIC RIGHT OF WAY.
8. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE AND APPROVAL OF THE PUBLIC WORKS DIRECTOR AND/OR ALL MATERIALS NOT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
9. A THOROUGH ATTEMPT HAS BEEN MADE TO SHOW THE LOCATION OF ALL UNDERGROUND OBSTRUCTIONS AND UTILITY LINES IN THE WORK AREA. THE ENGINEER AND THE CITY OF PRESCOTT DO NOT GUARANTEE THAT ALL SUCH LINES ARE SHOWN, OR THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR MAKING A COMPLETE AND ACCURATE ON-SITE DETERMINATION OF THE LOCATION AND SIZE OF ALL UTILITIES, STRUCTURES, AND FIELD CONDITIONS WHICH MAY AFFECT THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND UTILITIES INCOUNTERED DURING CONSTRUCTION AND SHALL FIELD EXPOSE EXISTING UNDERGROUND UTILITIES PRIOR TO TRENCHING IN THOSE AREAS.
10. THE CONTRACTOR IS REQUIRED TO CONTACT BLUE STAKE (1-800-STAKE(R)) A MINIMUM OF TWO WORKING DAYS (48 HOURS PRIOR) TO COMMENCEMENT OF CONSTRUCTION. THE APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR SUPPORT OF ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, THAT MAY BE NECESSARY.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL TRAFFIC CONTROL PLANS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL DETERMINE AND SUBMIT FOR APPROVAL THE EXACT SIGNING/TRAFFIC CONTROL DEVICES NECESSARY AND MEET ALL TRAFFIC CONTROL WORK SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS THEREOF. NO STREET IS TO BE CLOSED, RESTRICTED, OR CONSTRUCTED UPON UNTIL A TRAFFIC CONTROL PLAN IS PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE PUBLIC WORKS DIRECTOR ONE WEEK IN ADVANCE FOR REVIEW AND APPROVAL.
13. ANY CHANGES OR DEFICIENCY NOTICED SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO ANY SCHEDULED CONSTRUCTION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SURVEYING AND LAYOUT WITH CONTROL PROVIDED BY THE DESIGN ENGINEER OF HIS DESIGNEE.
15. THE CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL MEASURES SUFFICIENT TO PRODUCE MATERIALS AND WORKMANSHIP OF ACCEPTABLE QUALITY, PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT A QUALITY CONTROL PLAN. THE CONTRACTOR AT HIS OWN EXPENSE SHALL PROVIDE AN INDEPENDENT GEOTECHNICAL FIRM TO PERFORM QUALITY CONTROL TESTING SUCH AS SOILS AND CONCRETE TESTING, AND FULL TIME ASPHALTIC CONCRETE LAYDOWN COMPACTION TESTING AND ADEQUATE PLANT CONTROL FOR EACH PAVING DAY. THE CITY, BY CONTRACT, WILL BE RESPONSIBLE FOR QUALITY ASSURANCE TESTING AS IT MAY DEEM NECESSARY.
16. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS OF TESTING AND INSPECTION, INCLUDING THE PRESENCE OF CITY INSPECTORS, REQUIRED AT NIGHT OR ON WEEKENDS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RE-WORK AND/OR REMOVAL AND REPLACEMENT OF ALL MATERIALS REPRESENTED BY FAILING TESTS OR SUBSTANDARD WORKMANSHIP.
18. THE CONTRACTOR SHALL IMPLEMENT BEST-HOUSE-KEEPING MEASURES, AND EROSION AND SEDIMENT CONTROL MEASURES, TO PREVENT THE TRANSPORT OF CONSTRUCTION MATERIALS INTO DRAINAGE INLETS, STORM DRAIN MANHOLES, UTILITY STRUCTURES, OR ONTO ADJACENT STREETS AND PROPERTIES.
19. APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL THE WRITTEN FINAL ACCEPTANCE OF A COMPLETE AND WORKABLE UNIT.
20. THE CITY OF PRESCOTT MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN ITS JUDGEMENT, PROGRESS IS UNSATISFACTORY, WORK BEING DONE IS UNAUTHORIZED OR DEFECTIVE, WEATHER CONDITIONS ARE UNSUITABLE, OR THERE IS A DANGER TO THE PUBLIC HEALTH AND SAFETY.
21. ALL OBSTRUCTIONS IN THE RIGHT OF WAY SHALL BE REMOVED BEFORE ANY CONSTRUCTION IS PERMITTED.
22. READY INSPECTIONS AND OBSTRUCTIONS AS NECESSARY TO COMPLETE THE WORK, OTHER THAN THOSE SPECIFICALLY SCHEDULED IN THE BID SCHEDULE, TO THE CONTRACT OR SEPARATE MEASUREMENT OF OR PAYMENT FOR UNSCHEDULED REMOVAL ITEMS WILL BE MADE.
23. CLEARING AND GRUBBING IS CONSIDERED INCIDENTAL TO THE ITEMS SPECIFICALLY IDENTIFIED IN THE BID SCHEDULE. NO SEPARATE MEASUREMENT OF OR PAYMENT FOR CLEARING AND GRUBBING, AND TREE REMOVAL WILL BE MADE. SHAPING OF ALL EXCAVATION AND EMBANKMENTS, AND FILLS SHALL FIRST BE CLEARED OF STUMPS, TRASH, WEEDS, RUBBISH, SURFACE ROCK, AND LOOSE BOULDERS WHICH SHALL BE REMOVED AND DISPOSED OF. PRIOR TO BIDDING THE CONTRACTOR MUST SATISFY HIMSELF REGARDING THE CHARACTER OF THE SUBSOILS TO BE HANDLED, THE AMOUNT OF LOAM, ROCK, AND OTHER MATERIALS TO BE EXCAVATED, AND ALL OTHER MATERIAL TO BE ENCOUNTERED AND KNOWN TO BE PERFORMED.
24. THE CONTRACTOR SHALL PROTECT AND PRESERVE FROM INJURY OR DAMAGE TO EXISTING PROPERTIES AND IMPROVEMENTS ADJACENT TO THE CONSTRUCTION SITE. ALL ACTIVITIES SHALL BE REPLACED IN KIND OR BETTER AT THE CONTRACTOR'S EXPENSE.
25. THE CONTRACTOR SHALL KEEP EQUIPMENT AND ADJACENT AREAS OBSTATE FOR MAINTENANCE DUST CONTROL, AND SHALL CONTROL DUST AS DIRECTED BY THE APPROPRIATE AGENCY.
26. STREET AND TRAFFIC SIGNS SHALL BE RELOCATED BY THE CONTRACTOR IF NECESSARY, AT THE DIRECTION OF THE PUBLIC WORKS DIRECTOR.
27. BACKFILL COMPACTION SHALL BE TYPE 1 (MAG, SECTION 601) UNLESS OTHERWISE NOTED.
28. UNDERGROUND UTILITIES SHALL BE INSTALLED AND TESTED PRIOR TO PAVING REQUIREMENTS HAVE BEEN AGREED TO.
29. NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY PRISM ARE VERIFIED TO BE IN CONFORMANCE, COMPLETED AND TESTED (TO INCLUDE, BUT NOT LIMITED TO) SEWER TESTING, LOW AIR TESTING OF MAIN LINE AND SERVICES, TRACE WIRE TESTING, DEFLECTION TESTING AND VERIFICATION OF MANHOLES CONFORMING TO DETAIL 420P, WATER TESTING CHLORINATION/DISINFECTING OF MAIN LINE AND SERVICES, PRESSURE TESTING, TRACE WIRE TESTING AND VERIFICATION OF VALVE BOXES CONFORMING TO COP DETAIL 391P.
30. ALL ASPHALT CONCRETE PAVEMENT SHALL BE PER APPLICABLE MAG SPECIFICATIONS AS AMENDED BY THE CITY OF PRESCOTT. ASPHALT CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
31. ALL UTILITY FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC. SHALL BE ADJUSTED TO FINISH ASPHALT GRADE AFTER PAVING OR SURFACE DRESSING BY CONTRACTOR PER COP STANDARD DETAILS.
32. ACCEPTANCE OF THE COMPLETED PAVING STRUCTURES WILL NOT BE GIVEN UNTIL REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE CITY.
33. ALL CONCRETE TO BE AT LEAST 3000 PSI @ 28 DAYS, CONCRETE, UNLESS OTHERWISE NOTED OTHERWISE SPECIFIED ON THE PLANS, SPECIFICATIONS, OR IN STANDARD DETAILS.
34. ALL CURB AND GUTTER, CONCRETE STRUCTURES TO HAVE A 90° CONFLUENCE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
35. CONCRETE SURFACES TO HAVE A BROOM FINISH UNLESS OTHERWISE NOTED ON THE PLANS.
36. ALL EXPANSION JOINTS TO BE FILLED WITH A 1" EXPANSION JOINT, PRE-FORMED JOINT FILLER AND SEALER, IN ACCORDANCE WITH MAG SECTION 729.
37. DRIVEWAY ENTRANCES WILL BE LOCATED AS SPECIFIED ON THE PLANS UNLESS MODIFIED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAY ENTRANCES SHALL BE CONSTRUCTED OVER 6" THICK AGGREGATE BASE COURSE PER MAG SPECIFICATION 702 AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY, UNLESS OTHERWISE NOTED.
38. AS DISTURBED STREET SIGNS SHALL BE REPLACED IN KIND. CONTRACTOR SHALL EXTEND FENCE POSTS AND/OR SIGNPOLES AS NECESSARY TO MAINTAIN STABILITY.
39. MAILBOXES SHALL BE REMOVED AND REINSTALLED AS DIRECTED BY THE U.S. POSTAL SERVICE AND THE CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND COORDINATION.
40. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS.
41. THE CONTRACTOR SHALL WARRANT ALL WORK FOR A MINIMUM TWO YEAR PERIOD AFTER FORMAL ACCEPTANCE OF THE WORK BY THE CITY.

COP STANDARD DETAIL	GENERAL NOTES	CITY ENGINEER	REVISED: 07/16	DETAIL No. 101P

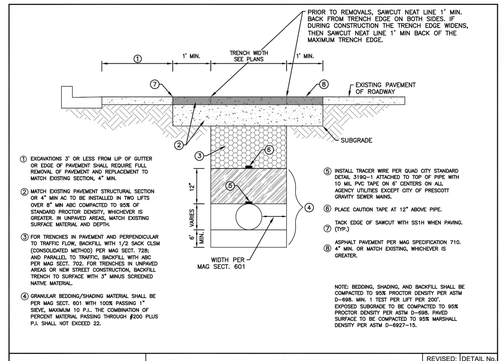
1. ALL WORK SHALL CONFORM TO MARICOPA ASSOCIATION OF GOVERNMENTS (MAG), & CITY OF PRESCOTT (COP) CONSTRUCTION STANDARDS & SPECIFICATIONS, WHICH ARE ON FILE IN THE OFFICE OF THE CITY ENGINEER.
2. ALL EXISTING FRAMES, COVERS, VALVE BOXES, & MANHOLES SHALL BE EITHER REPLACED OR ADJUSTED TO FINISH GRADE DEPENDING ON PLAN CALL OUT UPON COMPLETION OF PAVING, UTILITY, OR RELATED CONSTRUCTION.
3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE PUBLIC WORKS UTILITIES DIRECTOR.
4. ACCEPTANCE OF THE COMPLETED WORK WILL NOT BE GIVEN UNTIL 3 MIL MYLAR & DIGITAL AS-BUILT PLANS IN DWG OR DXF FORMAT ON CITY OF PRESCOTT SURVEY DATUM & COORDINATES HAVE BEEN SUBMITTED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER, AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.
5. CITY OF PRESCOTT PUBLIC WORKS UTILITIES SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY WORK.
6. ALL WORK & MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
7. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF THE CITY INSPECTOR OR HIS REPRESENTATIVE IS SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEN, EQUIPMENT, & MATERIAL ON THE JOB TO ALLOW THE CITY INSPECTOR TO PERFORM HIS DUTIES & INSPECTIONS & TO COMPLETE THE WORK.
9. QC INSPECTION TO BE DONE BY THE CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT OR THEIR REPRESENTATIVE. PRIVATE DEVELOPMENTS SHALL PROVIDE FOR INDEPENDENT INSPECTION BY THEIR ENGINEER.
10. CONTRACTOR TO NOTIFY PROJECT ENGINEER 72 HOURS (3 WORKING DAYS) IN ADVANCE OF CONSTRUCTION TO SCHEDULE CONSTRUCTION CONTROL STAKING.
11. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES, MATERIAL, SIZE & ELEVATIONS BEFORE COMMENCING CONSTRUCTION & ORDERING MATERIALS.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND PIPELINES, TELEPHONE & ELECTRIC LINES & STRUCTURES IN ADVANCE OF ANY EXCAVATION & CONSTRUCTION & OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO THEM. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE DONE TO SUCH LOCATIONS AS SHOWN ON THESE PLANS, OR THOSE OMITTED FROM SAME.
13. CONTRACTOR SHALL NOTIFY BLUE STAKE, INC. (1-800-782-5348) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
14. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN & MAKE HIS BID BASED UPON HIS OWN QUANTITY TAKE-OFF. ANY DISCREPANCY IN QUANTITIES IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SUCH.
15. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS MUST BE COMPLIED WITH.
16. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS SHALL APPLY WHEN MORE STRINGENT THAN THE MAG OR CITY OF PRESCOTT STANDARD SPECIFICATIONS FOR PUBLIC WORKS PROJECTS. THE CONTRACTOR SHALL COMPLY WITH THE MOST RESTRICTIVE MINIMUM ALLOWABLE SEWER LINE/PRESSURE SEWER LINE EXFILTRATION-INFILTRATION RATES.
17. ALL PLANS SIGNED BY THE ENGINEER SHALL BE VALID FOR ONE YEAR FROM DATE OF SIGNATURE. IF CONSTRUCTION HAS NOT STARTED AND/OR IS NOT ACTIVELY PROGRESSING, RESUBMITTAL AND REVIEW SHALL BE REQUIRED.
18. PROJECT RECORD DRAWINGS SHALL BE MADE IN RED LINE ON A SET OF CONSTRUCTION PLANS WHICH SHALL BE MADE A PART OF THE PLAN REVIEW REQUEST TO THE CITY ENGINEER FOR APPROVAL.
19. WATER-SEWER SEPARATION SHALL BE PURSUANT TO AAC R-18-5-502C.
20. ALL TRENCHES & BEDDING SHALL BE PER COP DETAIL 200P & TECHNICAL SPECIFICATIONS.
21. ALL REVISIONS TO ORIGINAL PLANS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO CONSTRUCTION. ANY UNAPPROVED REVISIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
22. ALL MATERIALS & PRODUCTS THAT COME INTO CONTACT WITH DRINKING WATER OR DRINKING WATER TREATMENT CHEMICALS MUST COMPLY WITH NSF STANDARD 61, ANY "OR EQUAL" SUBSTITUTION SHALL ALSO MEET NSF STANDARD 61.
23. ALL TRENCHES & BEDDING SHALL BE PER COP DETAIL 200P & TECHNICAL SPECIFICATIONS.
24. ALL QUANTITIES USED IN THE INSTALLATION OF WATER MAINS SHALL BE PURSUANT TO AAC R-18-5-4 & SHALL BE NSF APPROVED FOR POTABLE WATER.
25. ALL REVISIONS TO ORIGINAL PLANS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO CONSTRUCTION.
26. ALL DUCTILE IRON PIPE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. POLYETHYLENE PROTECTIVE WRAPPING IN ACCORDANCE WITH MAG SECTION 610.5 UNLESS COUNTERINDICATED BY GEOTECHNICAL CORROSIVITY TESTING OF BEDDING AND SHADING MATERIALS & APPROVED BY THE PUBLIC WORKS DIRECTOR.
27. ALL MATERIALS USED IN THE INSTALLATION OF WATER MAINS SHALL BE PURSUANT TO AAC R-18-5-4 & SHALL BE NSF APPROVED FOR POTABLE WATER.
28. ALL REVISIONS TO ORIGINAL PLANS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO CONSTRUCTION. ANY UNAPPROVED REVISIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
29. ALL TRENCHES & BEDDING SHALL BE PER COP DETAIL 200P & TECHNICAL SPECIFICATIONS.
30. ALL REVISIONS TO ORIGINAL PLANS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO CONSTRUCTION. ANY UNAPPROVED REVISIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
31. SEWER LINE TESTING: ALL SEWER LINES SHALL BE TESTED FOR INFILTRATION SUITABLE FOR SANITARY SEWER PRESSURE PIPE AS APPROVED BY THE CITY ENGINEER. SEWER LINES SHALL BE TESTED TO A MINIMUM OF 50 GPD PER INCH DIAMETER PER MILE FOR 24 HOURS IN ACCORDANCE WITH AAC R18-9-E309.
32. SEWER LINE LOW PRESSURE AIR TESTS SHALL BE DONE ON 100% OF ALL LINES AFTER PLACEMENT OF BACKFILL TO PAVEMENT SUBGRADE. TEST EACH SEGMENT OF THE SEWER LINE FOR LEAKAGE USING THE APPLICABLE METHOD BELOW AND RECORD THE RESULTS:
    - 32A. "STANDARD TEST METHOD FOR INSTALLATION OF ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR" (F1417-92(1998)) PUBLISHED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS.
33. SEWER MANHOLES EXFILTRATION TESTS SHALL BE DONE ON 100% OF ALL MANHOLES. VACUUM TESTING IN ACCORDANCE WITH CITY STANDARDS MAY BE USED IN LIEU OF EXFILTRATION TEST. THE CONTRACTOR SHALL VACUUM TEST EACH MANHOLE USING ONE OF THE FOLLOWING TEST PROTOCOLS:
    - 24A. WATER-TIGHTNESS TESTING BY FILLING THE MANHOLE WITH WATER. THE CONTRACTOR SHALL ENSURE THAT THE DROP IN WATER LEVEL FOLLOWING PRESOAKING DOES NOT EXCEED 0.00034 OF THE TOTAL MANHOLE VOLUME PER HOUR.
    - 24B. NEGATIVE AIR PRESSURE TESTING USING THE "STANDARD TEST METHOD FOR LOW-PRESSURE AIR TEST OF MANHOLES" BY ASTM DESIGNATION: C1244-02e1(2002), PUBLISHED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS. THIS METHOD IS INCORPORATED BY REFERENCE & DOES NOT INCLUDE ANY LATER AMENDMENTS OR EDITIONS OF THE INCORPORATED MATERIAL. COPIES MAY BE OBTAINED AT THE FOLLOWING ADDRESS: DEPARTMENT OF ENVIRONMENTAL QUALITY, 1110 W. WASHINGTON, PHOENIX, AZ. 85007, OR INTERNATIONAL 100 BAR HARBOR DRIVE, WEST CONSHOHOCKEN, PA. 19428-2959.
34. SEWER LINE/MANHOLE INFILTRATION: APPROPRIATELY SIZED MANDREL SHALL BE DONE ON 100% OF NON-RIBBED PIPE LINES.
35. THE CONTRACTOR SHALL PERFORM A VIDEO INSPECTION OF ALL SEWER MAINS AND LATERALS INSTALLED WITHIN THE CITY'S COLLECTION SYSTEM UTILIZING A SEWER CCTV SYSTEM AFTER COMPLETE BACKFILL AND COMPACTION HAS BEEN INSTALLED OVER PORTION OF THE PAVEMENT STRUCTURAL SECTION. THE INSPECTION SHALL COMPLY WITH THE CITY'S VIDEO ACCEPTANCE REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE 72 HOURS ADVANCE NOTICE FOR CITY STAFF TO BE PRESENT DURING THE VIDEO OPERATION AND SHALL PROVIDE THE CITY A VIDEO DVD AND HARD COPY OF THE INSPECTION REPORT UPON COMPLETION.
36. PRESSURE SEWER MAINS: MINIMUM 3 FEET OF EARTH COVER MEETING THE REQUIREMENTS FRENCH (1974) AND MAG (2012) STANDARD SPECIFICATIONS 601, REVISED 2004, PUBLISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS, & "RIGID PIPE BEDDING FOR SANITARY SEWERS" (WM 104) 1970, PUBLISHED BY PIMA COUNTY WASTEWATER MANAGEMENT.
37. PRESSURE SEWER MAINS AND SERVICE LATERALS (LPS) SHALL BE SUBJECT TO A PRESSURE & LEAKAGE TEST IN ACCORDANCE WITH AWWA-C-600 STANDARD. TEST PRESSURE SHALL BE A MINIMUM OF 150 PSI FOR A MINIMUM OF 2 HOURS AND, WHICHEVER IS GREATER. TESTING SHALL BE DONE AFTER BACKFILL TO SUBGRADE.

COP STANDARD DETAIL	WATER PLAN GENERAL NOTES	CITY ENGINEER	REVISED: 07/16	DETAIL No. 103P

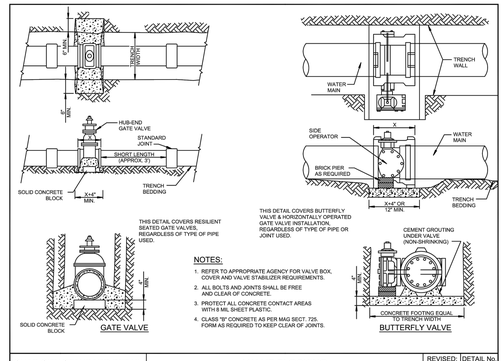
1. ALL WORK SHALL CONFORM TO MARICOPA ASSOCIATION OF GOVERNMENTS (MAG), & CITY OF PRESCOTT (COP) CONSTRUCTION STANDARDS & SPECIFICATIONS, WHICH ARE ON FILE IN THE OFFICE OF THE CITY ENGINEER.
2. ALL EXISTING FRAMES, COVERS, VALVE BOXES, & MANHOLES SHALL BE EITHER REPLACED OR ADJUSTED TO FINISH GRADE DEPENDING ON PLAN CALL OUT UPON COMPLETION OF PAVING, UTILITY, OR RELATED CONSTRUCTION.
3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE PUBLIC WORKS UTILITIES DIRECTOR.
4. ACCEPTANCE OF THE COMPLETED WORK WILL NOT BE GIVEN UNTIL 3 MIL MYLAR & DIGITAL AS-BUILT PLANS IN DWG OR DXF FORMAT ON CITY OF PRESCOTT SURVEY DATUM & COORDINATES HAVE BEEN SUBMITTED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER, AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.
5. CITY OF PRESCOTT PUBLIC WORKS UTILITIES SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY WORK.
6. ALL WORK & MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
7. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF THE CITY INSPECTOR OR HIS REPRESENTATIVE IS SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEN, EQUIPMENT, & MATERIAL ON THE JOB TO ALLOW THE CITY INSPECTOR TO PERFORM HIS DUTIES & INSPECTIONS & TO COMPLETE THE WORK.
9. QC INSPECTION TO BE DONE BY THE CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT OR THEIR REPRESENTATIVE. PRIVATE DEVELOPMENTS SHALL PROVIDE FOR INDEPENDENT INSPECTION BY THEIR ENGINEER.
10. CONTRACTOR TO NOTIFY PROJECT ENGINEER 72 HOURS (3 WORKING DAYS) IN ADVANCE OF CONSTRUCTION TO SCHEDULE CONSTRUCTION CONTROL STAKING.
11. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES, MATERIAL, SIZE & ELEVATIONS BEFORE COMMENCING CONSTRUCTION & ORDERING MATERIALS.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND PIPELINES, TELEPHONE & ELECTRIC LINES & STRUCTURES IN ADVANCE OF ANY EXCAVATION & CONSTRUCTION & OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO THEM. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE DONE TO SUCH LOCATIONS AS SHOWN ON THESE PLANS, OR THOSE OMITTED FROM SAME.
13. CONTRACTOR SHALL NOTIFY BLUE STAKE, INC. (1-800-782-5348) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
14. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN & MAKE HIS BID BASED UPON HIS OWN QUANTITY TAKE-OFF. ANY DISCREPANCY IN QUANTITIES IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SUCH.
15. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS MUST BE COMPLIED WITH.
16. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS SHALL APPLY WHEN MORE STRINGENT THAN THE MAG OR CITY OF PRESCOTT STANDARD SPECIFICATIONS FOR PUBLIC WORKS PROJECTS. THE CONTRACTOR SHALL COMPLY WITH THE MOST RESTRICTIVE MINIMUM ALLOWABLE SEWER LINE/PRESSURE SEWER LINE EXFILTRATION-INFILTRATION RATES.
17. ALL PLANS SIGNED BY THE ENGINEER SHALL BE VALID FOR ONE YEAR FROM DATE OF SIGNATURE. IF CONSTRUCTION HAS NOT STARTED AND/OR IS NOT ACTIVELY PROGRESSING, RESUBMITTAL AND REVIEW SHALL BE REQUIRED.
18. PROJECT RECORD DRAWINGS SHALL BE MADE IN RED LINE ON A SET OF CONSTRUCTION PLANS WHICH SHALL BE MADE A PART OF THE PLAN REVIEW REQUEST TO THE CITY ENGINEER FOR APPROVAL.
19. WATER-SEWER SEPARATION SHALL BE PURSUANT TO AAC R-18-5-502C.
20. ALL TRENCHES & BEDDING SHALL BE PER COP DETAIL 200P & TECHNICAL SPECIFICATIONS.
21. ALL REVISIONS TO ORIGINAL PLANS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO CONSTRUCTION. ANY UNAPPROVED REVISIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
22. SEWER LINE TESTING: ALL SEWER LINES SHALL BE TESTED FOR INFILTRATION SUITABLE FOR SANITARY SEWER PRESSURE PIPE AS APPROVED BY THE CITY ENGINEER. SEWER LINES SHALL BE TESTED TO A MINIMUM OF 50 GPD PER INCH DIAMETER PER MILE FOR 24 HOURS IN ACCORDANCE WITH AAC R18-9-E309.
23. SEWER LINE LOW PRESSURE AIR TESTS SHALL BE DONE ON 100% OF ALL LINES AFTER PLACEMENT OF BACKFILL TO PAVEMENT SUBGRADE. TEST EACH SEGMENT OF THE SEWER LINE FOR LEAKAGE USING THE APPLICABLE METHOD BELOW AND RECORD THE RESULTS:
    - 23A. "STANDARD TEST METHOD FOR INSTALLATION OF ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR" (F1417-92(1998)) PUBLISHED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS.
24. SEWER MANHOLES EXFILTRATION TESTS SHALL BE DONE ON 100% OF ALL MANHOLES. VACUUM TESTING IN ACCORDANCE WITH CITY STANDARDS MAY BE USED IN LIEU OF EXFILTRATION TEST. THE CONTRACTOR SHALL VACUUM TEST EACH MANHOLE USING ONE OF THE FOLLOWING TEST PROTOCOLS:
    - 24A. WATER-TIGHTNESS TESTING BY FILLING THE MANHOLE WITH WATER. THE CONTRACTOR SHALL ENSURE THAT THE DROP IN WATER LEVEL FOLLOWING PRESOAKING DOES NOT EXCEED 0.00034 OF THE TOTAL MANHOLE VOLUME PER HOUR.
    - 24B. NEGATIVE AIR PRESSURE TESTING USING THE "STANDARD TEST METHOD FOR LOW-PRESSURE AIR TEST OF MANHOLES" BY ASTM DESIGNATION: C1244-02e1(2002), PUBLISHED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS. THIS METHOD IS INCORPORATED BY REFERENCE & DOES NOT INCLUDE ANY LATER AMENDMENTS OR EDITIONS OF THE INCORPORATED MATERIAL. COPIES MAY BE OBTAINED AT THE FOLLOWING ADDRESS: DEPARTMENT OF ENVIRONMENTAL QUALITY, 1110 W. WASHINGTON, PHOENIX, AZ. 85007, OR INTERNATIONAL 100 BAR HARBOR DRIVE, WEST CONSHOHOCKEN, PA. 19428-2959.
25. SEWER LINE/MANHOLE INFILTRATION: APPROPRIATELY SIZED MANDREL SHALL BE DONE ON 100% OF NON-RIBBED PIPE LINES.
26. THE CONTRACTOR SHALL PERFORM A VIDEO INSPECTION OF ALL SEWER MAINS AND LATERALS INSTALLED WITHIN THE CITY'S COLLECTION SYSTEM UTILIZING A SEWER CCTV SYSTEM AFTER COMPLETE BACKFILL AND COMPACTION HAS BEEN INSTALLED OVER PORTION OF THE PAVEMENT STRUCTURAL SECTION. THE INSPECTION SHALL COMPLY WITH THE CITY'S VIDEO ACCEPTANCE REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE 72 HOURS ADVANCE NOTICE FOR CITY STAFF TO BE PRESENT DURING THE VIDEO OPERATION AND SHALL PROVIDE THE CITY A VIDEO DVD AND HARD COPY OF THE INSPECTION REPORT UPON COMPLETION.
27. PRESSURE SEWER MAINS: MINIMUM 3 FEET OF EARTH COVER MEETING THE REQUIREMENTS FRENCH (1974) AND MAG (2012)



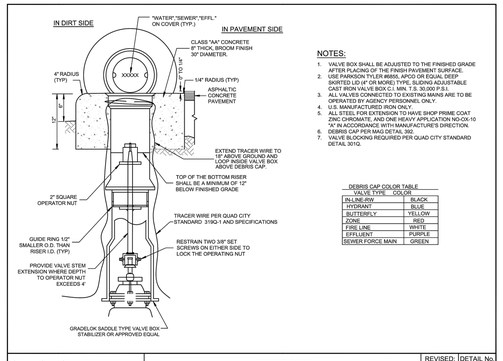
COP STANDARD DETAIL | PVC PRESSURE PIPE INSTALLATION | Charles Anderson CITY ENGINEER | REVISED: 07/16 | DETAIL No. 200P-2



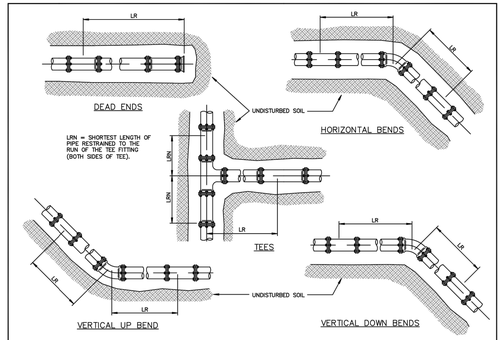
QUAD CITY STANDARD DETAIL | TRENCH BACKFILL AND SURFACE REPLACEMENT | REVISED: 07/16 | DETAIL No. 200Q-1



QUAD CITY STANDARD DETAIL | VALVE BLOCKING | REVISED: 07/16 | DETAIL No. 301Q



QUAD CITY STANDARD DETAIL | VALVE BOX | REVISED: 07/16 | DETAIL No. 391Q



QUAD CITY STANDARD DETAIL | JOINT RESTRAINT FOR DUCTILE IRON AND POLYETHYLENE WRAPPED DUCTILE IRON WATER PIPES | REVISED: 07/16 | DETAIL No. 303Q-1

RESTRAINED LENGTHS, LR, FOR DUCTILE IRON PIPE

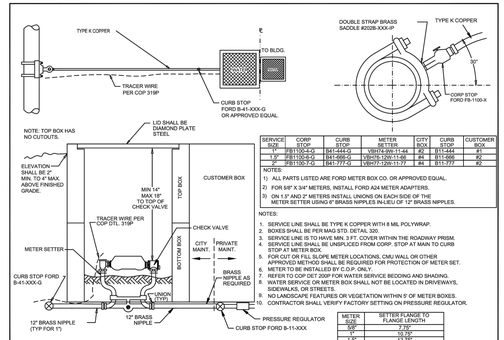
NOMINAL PIPE SIZE INCHES	HORIZONTAL BENDS			TEES		VERTICAL OFFSETS						VALVES & DEAD ENDS
						90° BEND FITTINGS		45° BEND FITTINGS		22-1/2° BEND FITTINGS		
	90°	45°	22-1/2°	LRN=0'	LRN=10'	DOWN BEND	UP BEND	DOWN BEND	UP BEND	DOWN BEND	UP BEND	
4	18	7	4	30	8	31	18	13	7	6	3	31
6	25	10	5	43	20	44	25	18	10	9	5	44
8	32	13	6	56	34	58	32	24	13	11	6	58
10	38	16	8	68	45	69	39	29	16	14	8	69
12	45	19	9	80	57	81	45	34	19	16	9	81
14	51	21	10	91	68	92	51	38	21	18	10	92
16	57	24	11	103	79	104	57	43	24	21	11	104
18	62	26	12	113	90	115	62	48	26	23	12	115
20	68	28	14	125	100	126	68	52	28	25	14	126
24	79	33	16	145	121	147	79	61	33	29	16	147

RESTRAINED LENGTHS, LR, FOR DUCTILE IRON PIPE WITH POLYETHYLENE WRAP OR PVC

NOMINAL PIPE SIZE INCHES	HORIZONTAL BENDS			TEES		VERTICAL OFFSETS						VALVES & DEAD ENDS
						90° BEND FITTINGS		45° BEND FITTINGS		22-1/2° BEND FITTINGS		
	90°	45°	22-1/2°	LRN=0'	LRN=10'	DOWN BEND	UP BEND	DOWN BEND	UP BEND	DOWN BEND	UP BEND	
4	26	11	5	69	18	72	26	30	11	14	5	72
6	36	15	7	99	47	102	36	42	15	20	7	102
8	47	19	9	130	76	133	47	55	19	26	9	133
10	56	23	11	157	103	159	56	66	23	32	11	159
12	65	27	13	185	131	187	65	77	27	37	13	187
14	74	31	15	211	156	214	74	89	31	42	15	214
16	82	34	16	238	183	241	82	100	34	48	16	241
18	90	37	18	263	207	266	90	110	38	53	18	266
20	98	41	20	289	233	292	98	121	41	58	20	292
24	113	47	22	337	280	340	113	141	47	68	22	340

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

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

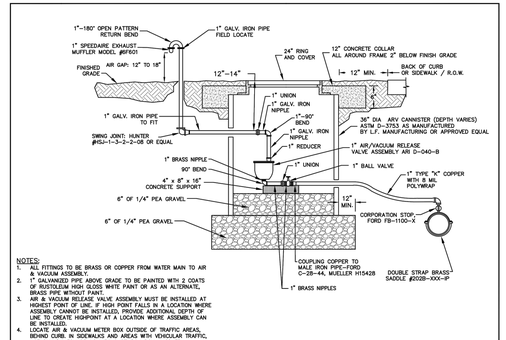


SERVICE SIZE	CORP STOP	CURB STOP	METER SETTER	CITY BOX	CURB BOX	CUSTOMER BOX
1"	FB1100-4-Q	B41-444-Q	VB974-991-11-44	#2	B11-444	#1
1.5"	FB1100-6-Q	B41-666-Q	VB976-1291-11-66	#3	B11-666	#2
2"	FB1100-7-Q	B41-777-Q	VB977-1291-11-77	#4	B11-777	#2

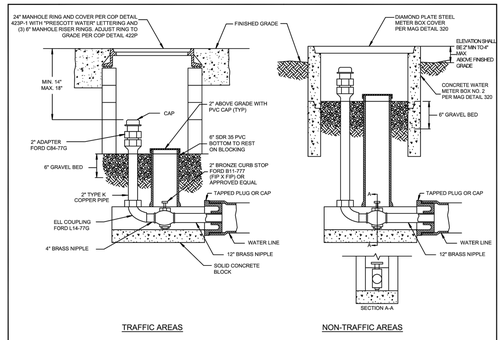
NOTES:
1. SERVICE LINE SHALL BE TYPE K COPPER WITH 8 MIL POLYWRAP.
2. BOXES SHALL BE PER MAG STD. DETAIL 320.
3. SERVICE LINE IS TO HAVE MIN. 3 FT. COVER WITHIN THE ROADWAY PRISM.
4. SERVICE LINE SHALL BE UNSPLICED FROM CORP. STOP AT MAIN TO CURB STOP AT METER BOX.
5. FOR CUT OR FILL SLOPE METER LOCATIONS, CMU WALL OR OTHER APPROVED METHOD SHALL BE REQUIRED FOR PROTECTION OF METER SET.
6. METER TO BE INSTALLED BY C.O.P. ONLY.
7. REFER TO COP DET 200P FOR WATER SERVICE BEDDING AND SHADING.
8. WATER SERVICE OR METER BOX SHALL NOT BE LOCATED IN DRIVEWAYS, SIDEWALKS, OR STREETS.
9. NO LANDSCAPE FEATURES OR VEGETATION WITHIN 5' OF METER BOXES.
10. CONTRACTOR SHALL VERIFY FACTORY SETTING ON PRESSURE REGULATOR.

METER SIZE	SETTER FLANGE TO FLANGE LENGTH
5/8"	7.75"
1"	10.75"
1.5"	12.75"
2"	17.25"

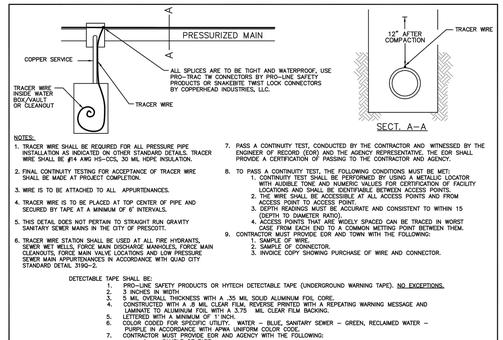
COP STANDARD DETAIL | 1" - 2" WATER SERVICE CONNECTIONS | Charles Anderson CITY ENGINEER | REVISED: 07/16 | DETAIL No. 316P



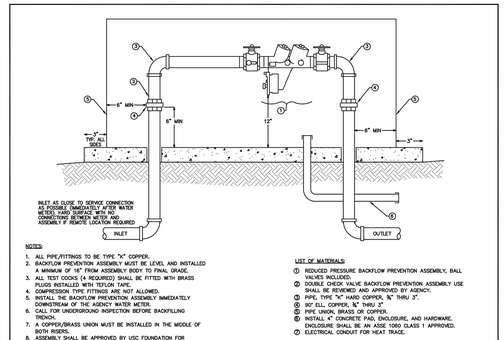
QUAD CITY STANDARD DETAIL | 1" AIR VACUUM RELEASE VALVE ASSEMBLY | REVISED: 07/16 | DETAIL No. 317Q-1



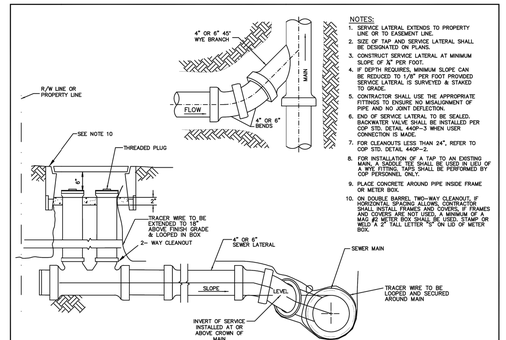
COP STANDARD DETAIL | BLOW OFF | Charles Anderson CITY ENGINEER | REVISED: 07/16 | DETAIL No. 318P



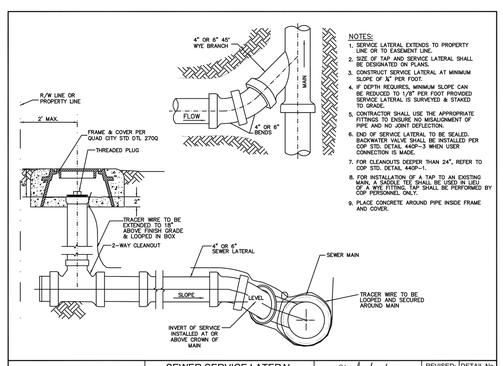
QUAD CITY STANDARD DETAIL | TRACER WIRE | REVISED: 07/16 | DETAIL No. 319Q-1



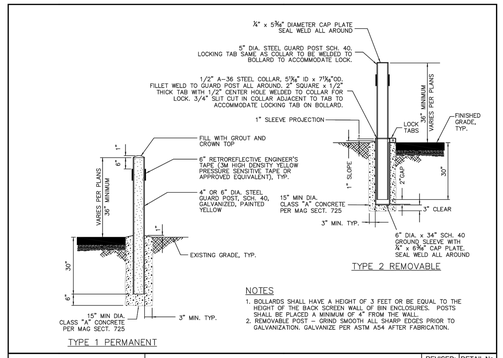
QUAD CITY STANDARD DETAIL | BACKFLOW PREVENTION ASSEMBLY INSTALLATION 3" AND UNDER | REVISED: 07/16 | DETAIL No. 324Q-1



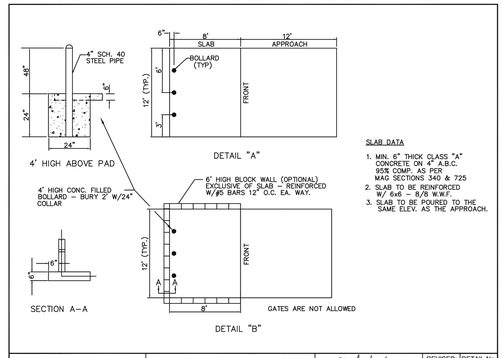
COP STANDARD DETAIL | SEWER SERVICE LATERAL GREATER THAN 2 FEET DEEP | Charles Anderson CITY ENGINEER | REVISED: 07/16 | DETAIL No. 440P-1



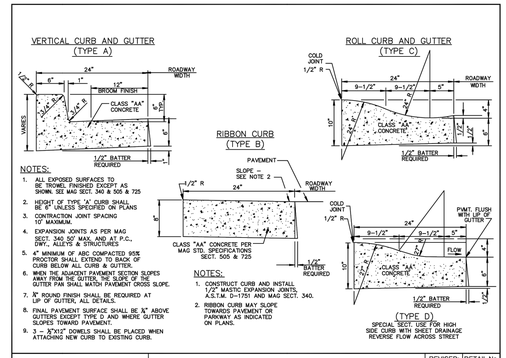
COP STANDARD DETAIL | SEWER SERVICE LATERAL 2 FEET DEEP OR LESS | Charles Anderson CITY ENGINEER | REVISED: 07/16 | DETAIL No. 440P-2



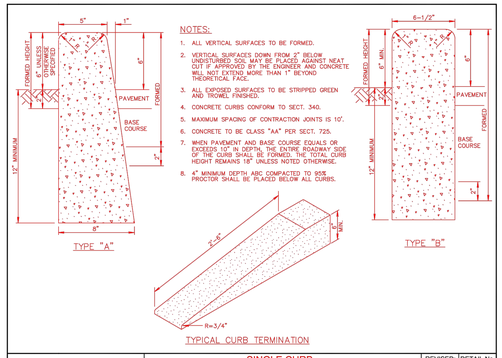
QUAD CITY STANDARD DETAIL	BOLLARD	REVISED: 07/16	DETAIL No. 140Q



COP STANDARD DETAIL	SANITATION DUMPSTER	Charles Jacobson CITY ENGINEER	REVISED: 07/16	DETAIL No. 144P



QUAD CITY STANDARD DETAIL	CURB AND GUTTER TYPES A, B, C AND D	REVISED: 07/16	DETAIL No. 220Q-1



QUAD CITY STANDARD DETAIL	SINGLE CURB - TYPES A, B, AND TERMINATION	REVISED: X/17	DETAIL No. 222Q

QUAD CITY STANDARD DETAIL	SIDEWALKS	REVISED: 07/16	DETAIL No. 230Q

QUAD CITY STANDARD DETAIL	DRIVEWAY ENTRANCE WITH DETACHED SIDEWALKS	REVISED: 07/16	DETAIL No. 250Q-1

DETAIL NO. 150	MARICOPA ASSOCIATION OF GOVERNMENTS	STANDARD DETAIL ENGLISH	PRECAST SAFETY CURB	REVISED 01-01-1998	DETAIL NO. 150

REVISIONS	BY

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Registered Professional Engineer (Civil) CERTIFICATE NO. 45636 BEN B. HUZA Date Signed 9/28/21 ARIZONA, U.S.A. Expires 12/31/22

W. Alan Kenson & Associates, P.C.
P 928-443-5812 P.O. Box 11593
F 928-443-5815 Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: CIVIL IMPROVEMENT PLANS
STANDARD DETAILS

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY BH
CHECKED BY BH
DATE September 28, 2021
JOB NO. 759
SHEET
C4

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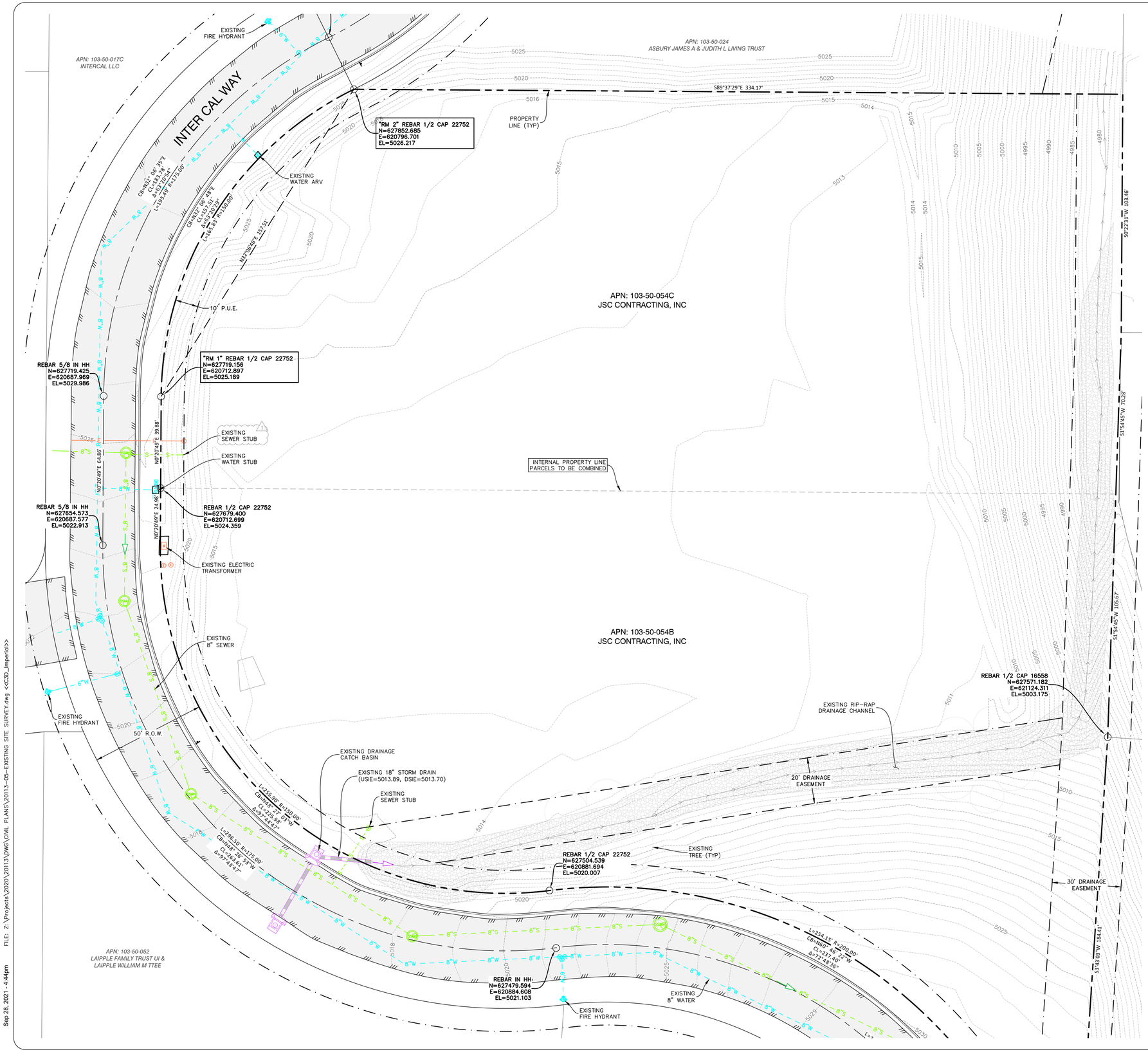

N

0 10' 20' 40'

SCALE: 1" = 20'

LEGEND

- SUBJECT PROPERTY LINE
- ADJACENT PROPERTY LINE
- EASEMENT
- RIGHT-OF-WAY
- 5015 EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING BUILDING
- EXISTING DRAINAGE FLOWLINE
- EXISTING BLOCK WALL
- EXISTING EDGE OF DIRT/GRAVEL ROAD
- EXISTING EDGE OF PAVEMENT
- EXISTING DRAINAGE PIPE
- CATV EXISTING CABLE TV LINE
- EXISTING CABLE TV RISER
- E EXISTING UNDERGROUND ELECTRIC LINE
- OHE EXISTING OVERHEAD ELECTRIC LINE
- EXISTING ELECTRIC TRANSFORMER
- TL EXISTING TELEPHONE/FIBER LINE
- EXISTING TELEPHONE RISER
- G EXISTING NATURAL GAS MAIN
- EXISTING GAS METER
- S EXISTING SEWER MAIN
- EXISTING SEWER MANHOLE
- W EXISTING WATER MAIN
- EXISTING WATER METER BOX
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- EXISTING CONCRETE
- EXISTING ROCK RIP-RAP
- EXISTING ASPHALT PAVEMENT

PROJECT BASIS OF BEARING

THE BASIS OF BEARING FOR THIS PROJECT IS N32°06'48"E A DISTANCE OF 157.51 FEET ALONG THE CHORD FOR THE NORTHWESTERLY RIGHT OF WAY CURVE FOR THE FORMER LOT 68 BETWEEN TWO 1/2" REBARS WITH CAP RLS 22752

REFERENCE MARK	NORTHING	EASTING	ELEVATION (88)
RM 1	627719.156	620712.897	5025.189
RM 2	627852.685	620796.701	5026.217

THE COORDINATES AS DEPICTED HEREON REFLECT THE CITY OF PRESCOTT COORDINATE SYSTEM AS PUBLISHED BY THE CITY OF PRESCOTT AND AVAILABLE ON THEIR WEBSITE.

REVISIONS	BY
1 COP ROUND 1 COMMENTS	BH

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Registered Professional Engineer
CERTIFICATE NO.
45636
BEN B. HUZA
Date Signed 9/28/21
ARIZONA, U.S.A.
Expires 12/31/22

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

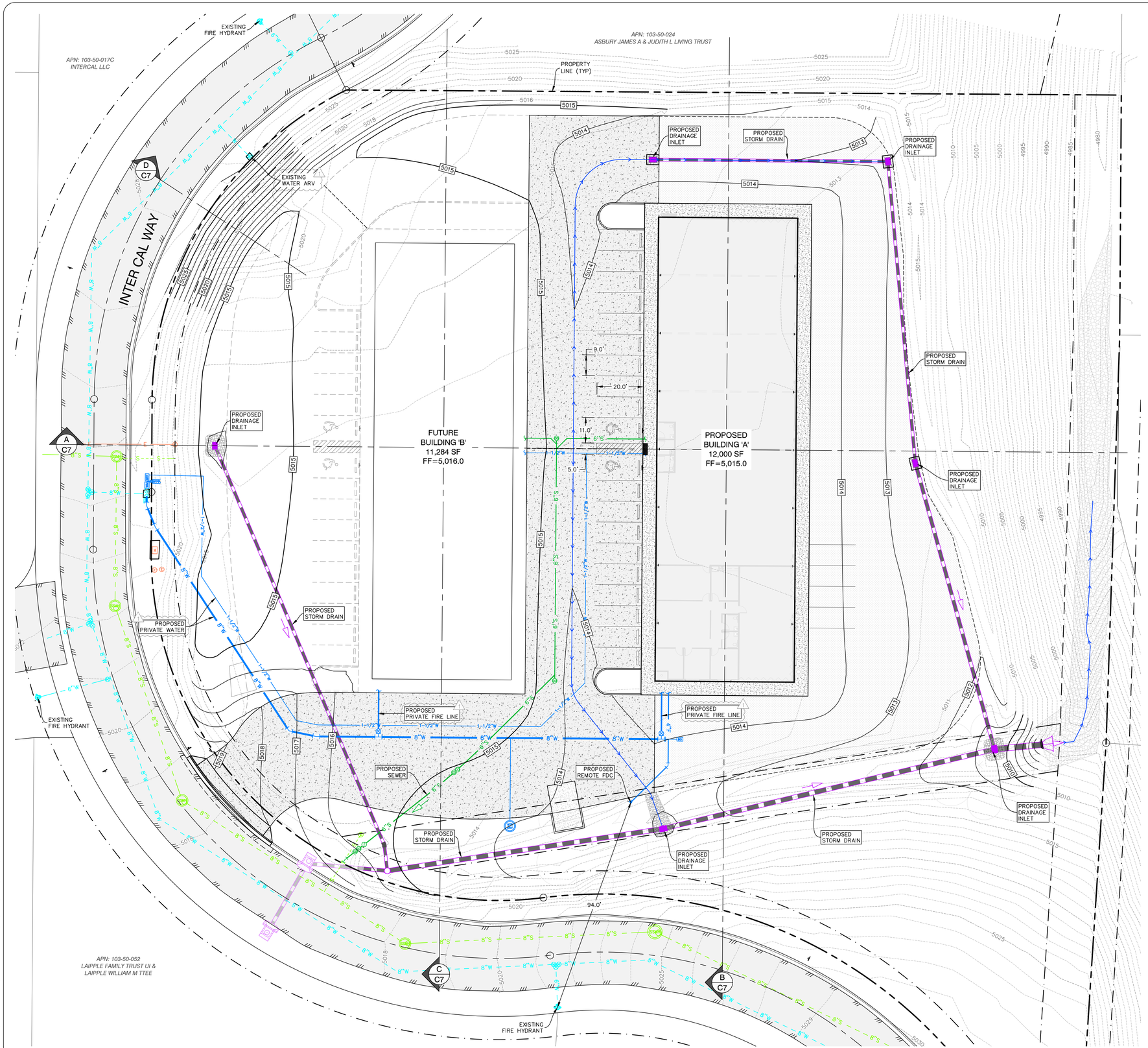
DRAWING: CIVIL IMPROVEMENT PLANS
EXISTING SITE SURVEY MAP

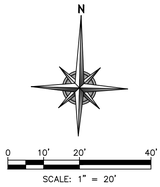
PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY	BH
CHECKED BY	BH
DATE	September 28, 2021
JOB NO.	759
SHEET	C5

Sep 28, 2021 - 4:44pm FILE: Z:\Projects\2020\20113\DWG\CIVIL PLANS\20113-05-EXISTING SITE SURVEY.dwg <<C3D_Imperial>>





PROJECT QUANTITIES

SEWER QUANTITIES

KEY	DESCRIPTION	QTY	UNIT
S5	CONNECT TO EXISTING SEWER LATERAL WITH 22.5° BEND	1	EA
S10	INSTALL 6" Ø DOUBLE CLEANOUT & BACKWATER VALVE PER COP STD DTL 440P-3	1	EA
S15	INSTALL 6" Ø SDR 35 PVC SEWER LATERAL WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1	280	LF
S20	INSTALL 6" Ø SEWER (IN-LINE) CLEANOUT PER COP STD DTL 440P-1 & 2	1	EA
S25	INSTALL 6" Ø SEWER (END-OF-LINE) CLEANOUT PER QCSD 441Q	2	EA

WATER QUANTITIES

KEY	DESCRIPTION	QTY	UNIT
W5	CONNECT TO EXISTING 8" Ø WATER MAIN	1	EA
W10	INSTALL 8" Ø C-900/CL305 DR14 PVC WATERLINE WITH TRENCHING, BEDDING, & BACKFILL PER COP STD DTL 200P-2	280	LF
W15	INSTALL 6" Ø C-600/CL350 DIP FIRE LINE TO FIRE RISER WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1	40	LF
W20	INSTALL 4" Ø C-600/CL350 DIP FIRE LINE TO REMOTE FDC WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1	60	LF
W25	INSTALL 1-1/2" Ø SCH-40 PVC DOMESTIC YARD LINE TO BUILDING WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1	400	LF
W30	INSTALL WATER FITING WITH JOINT RESTRAINT PER QCSDS 303Q-1 & 2	6	EA
W35	INSTALL 1" WATER METER AND SERVICE LINE PER COP STD DTL 316P	1	EA
W40	INSTALL 1" BACKFLOW PREVENTION ASSEMBLY PER QCSD 324Q-1 IN AN ELECTRONICALLY HEATED ASSE 1060 CLASS 1 HOTBOX	1	EA
W41	INSTALL 3/4" BACKFLOW PREVENTION ASSEMBLY FOR LANDSCAPE IRRIGATION PER QCSD 324Q-1 IN AN ELECTRONICALLY HEATED ASSE 1060 CLASS 1 HOTBOX	1	EA
W45	INSTALL REMOTE FIRE DEPARTMENT CONNECTION WITH LOCKING CAPS PER COP FIRE DEPARTMENT REQUIREMENTS	1	EA
W50	INSTALL AIR VACUUM RELEASE VALVE ASSEMBLY PER QCSD 317Q-1	1	EA
W55	INSTALL BLOW OFF FOR TRAFFIC AREAS PER COP STD DTL 318P	1	EA
W60	INSTALL 6" GATE VALVE PER QCSDS 301Q & 391Q	2	EA

DRAINAGE QUANTITIES

KEY	DESCRIPTION	QTY	UNIT
D5	INSTALL 15" Ø SMOOTH BORE HDPE WATER-TIGHT PIPE WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1	425	LF
D10	INSTALL 18" Ø SMOOTH BORE HDPE WATER-TIGHT PIPE WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1	135	LF
D15	INSTALL 24" Ø SMOOTH BORE HDPE WATER-TIGHT PIPE WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1	263	LF
D20	INSTALL 30" Ø SMOOTH BORE HDPE WATER-TIGHT PIPE WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1	20	LF
D25	INSTALL 24" Ø NYLOPLAST DRAIN BASIN WITH 2'X3' STEEL BAR/MAG GRATE & INLET FILTER PER MANUFACTURER'S RECOMMENDATIONS & DETAILS	4	EA
D30	INSTALL 30" Ø NYLOPLAST DRAIN BASIN WITH 2'X3' STEEL BAR/MAG GRATE & INLET FILTER PER MANUFACTURER'S RECOMMENDATIONS & DETAILS	2	EA
D35	INSTALL 30" Ø NYLOPLAST DRAIN BASIN WITH SOLID COVER PER MANUFACTURER'S RECOMMENDATIONS & DETAILS	1	EA
D40	INSTALL 30" Ø ADS FLARED END SECTION	1	EA
D45	INSTALL CUSTOM BEND FITTING PER PLAN	1	EA
D50	INSTALL RIPRAP (D50=6") PLACE 12" THICK OVER HEAVY DUTY FILTER FABRIC	10	CY

PAVING QUANTITIES

KEY	DESCRIPTION	QTY	UNIT
P5	SAWCUT, REMOVE & REPLACE EXISTING PAVEMENT PER QCSD 200Q-1	115	SF
P10	INSTALL 40' WIDE DRIVEWAY ENTRANCE PER QCSD 250Q-1	1	EA
P15	INSTALL 5" OF PCC WITH #4 REBAR @ 24" O.C. BOTH WAYS OVER 4" OF ABC OVER 8" OF PREPARED SUBGRADE	2,353	SY
P20	INSTALL 6" OF ABC OVER 8" PREPARED SUBGRADE	2,084	SY
P25	INSTALL BOLLARD - TYPE 1 PERMANENT PER QCSD 140Q	2	EA
P30	INSTALL DUMPSTER ENCLOSURE PER COP STD DTL 144P	1	EA
P35	INSTALL PRECAST SAFETY CURB PER MAG SD 150	20	LF
P40	INSTALL SINGLE CURB - TYPE 'A' PER QCSD 222Q	90	LF
P45	INSTALL SIDEWALK (WIDTHS PER PLAN) PER QCSD 230Q	1,992	SF
P50	INSTALL SIDEWALK (WIDTHS PER PLAN) PER QCSD 230Q MODIFIED - 5" THICK CONCRETE WITH #4 REBAR @ 24" O.C. BOTH WAYS	1,272	SF
P55	INSTALL PARKING LOT (SINGLE & GORE) STRIPING PER PLAN & COP REQUIREMENTS	1	LS
P60	INSTALL ADA COMPLIANT HANDICAP STRIPING & SIGNAGE PER PLAN & COP REQUIREMENTS	2	EA
P65	INSTALL DETECTABLE WARNING (TRUNCATED DOMES) PER QCSD 233Q-1	1	EA

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8. REMOVALS SHALL BE DONE IN ACCORDANCE WITH MAG SPECIFICATIONS SECTION 350.

REVISIONS	BY
1 COP ROUND 1 COMMENTS	BH

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Registered Professional Engineer (Civil)
CERTIFICATE NO.
45636
BEN B. HUZA
Date Signed 9/28/21
ARIZONA, U.S.A.
Expires 12/31/22

W. Alan Kenson & Associates, P.C.
P 928-443-5812
F 928-443-5815
P.O. Box 11593
Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

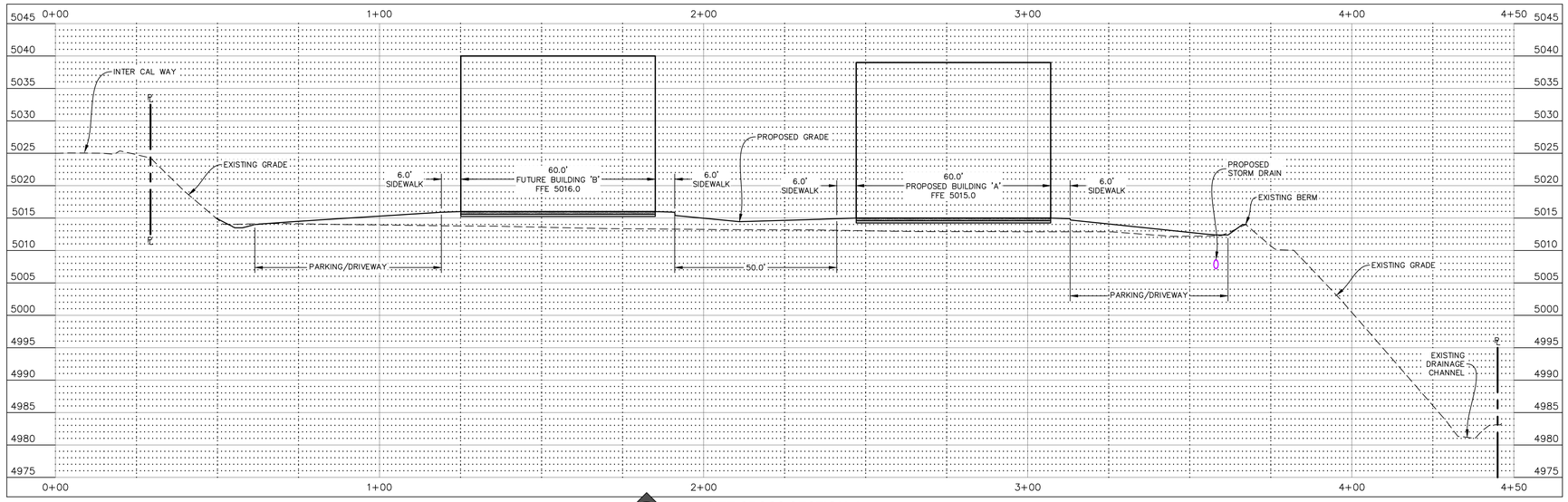
DRAWING: CIVIL IMPROVEMENT PLANS
PROJECT SUMMARY MAP

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

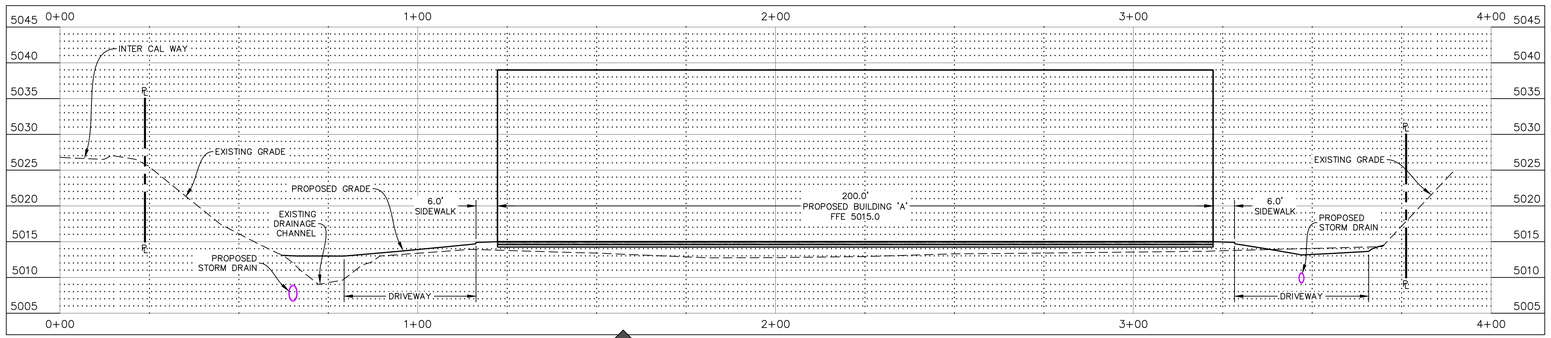
DRAWN BY	BH
CHECKED BY	BH
DATE	September 28, 2021
JOB NO.	759
SHEET	C6

FILE: Z:\Projects\2020\20113\DWG\CIVIL PLANS\20113-06-PROJECT SUMMARY.dwg <<C3D_Imperial>>
Sep 28, 2021 - 4:46pm



A C6 **SITE CROSS SECTION 'A'**

SCALE: 1" = 20' HORIZ.
1" = 10' VERT.



B C6 **SITE CROSS SECTION 'B'**

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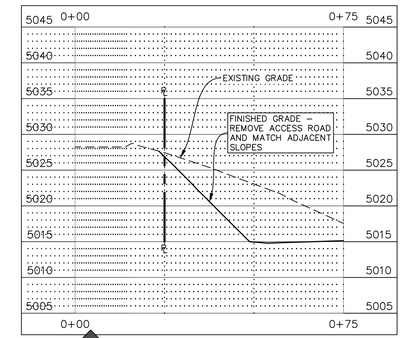
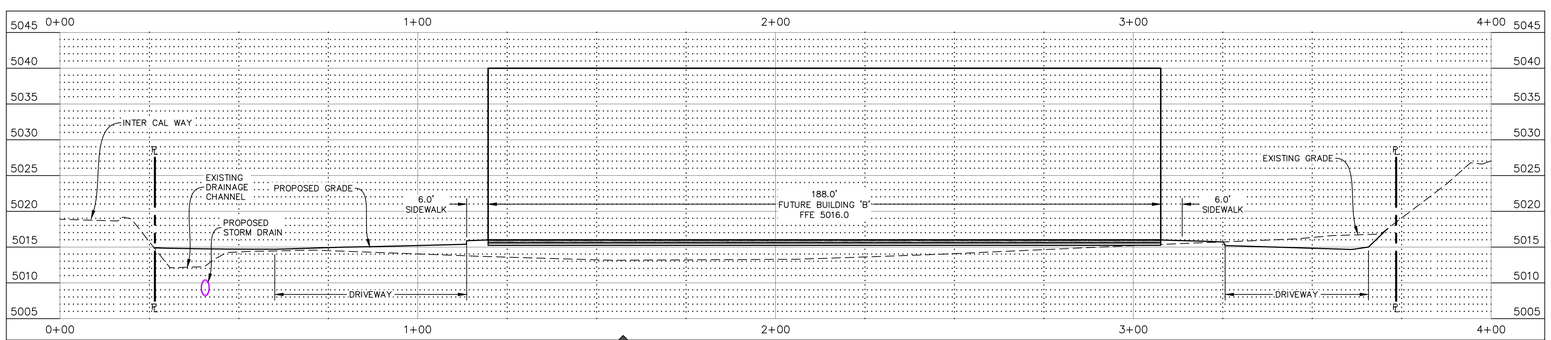
1" = 10' VERT.



D C6 **SITE CROSS SECTION 'D'**

SCALE: 1" = 20' HORIZ.
1" = 10' VERT.



C C6 **SITE CROSS SECTION 'C'**

SCALE: 1" = 20' HORIZ.
1" = 10' VERT.

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BEN B.
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W. Allan Kenson & Associates, P.C.
P 928-443-5812
F 928-443-5815
P.O. Box 11593
Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: CIVIL IMPROVEMENT PLANS
SITE CROSS SECTIONS

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY	BH
CHECKED BY	BH
DATE	September 28, 2021
JOB NO.	759
SHEET	C7

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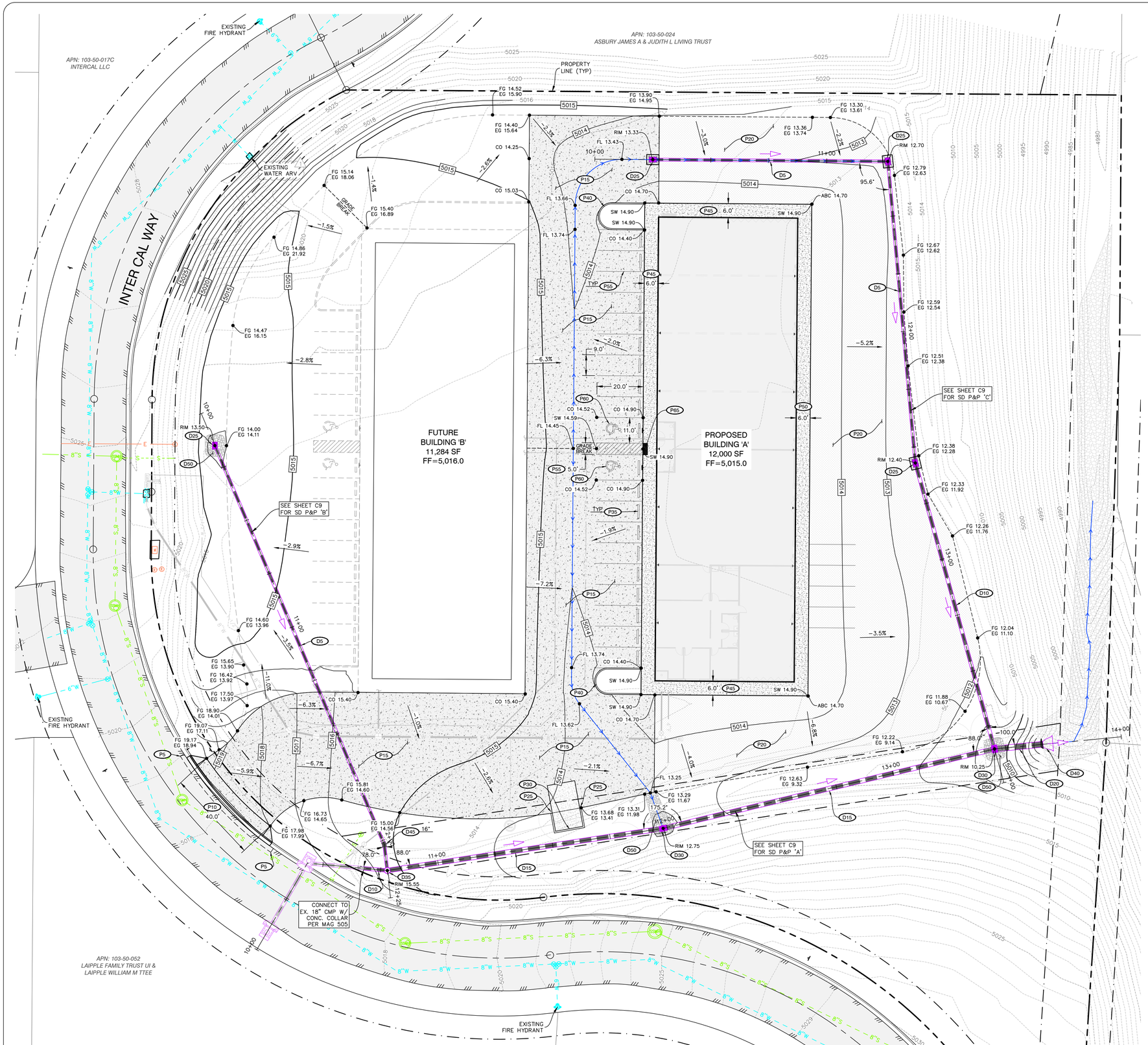

DRAINAGE KEYNOTES	
KEY	DESCRIPTION
D5	INSTALL 15" Ø SMOOTH BORE HDPE WATER-TIGHT PIPE WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1
D10	INSTALL 18" Ø SMOOTH BORE HDPE WATER-TIGHT PIPE WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1
D15	INSTALL 24" Ø SMOOTH BORE HDPE WATER-TIGHT PIPE WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1
D20	INSTALL 30" Ø SMOOTH BORE HDPE WATER-TIGHT PIPE WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1
D25	INSTALL 24" Ø NYLOPLAST DRAIN BASIN WITH 2'X3' STEEL BAR/MAG GRATE & INLET FILTER PER MANUFACTURER'S RECOMMENDATIONS & DETAILS
D30	INSTALL 30" Ø NYLOPLAST DRAIN BASIN WITH 2'X3' STEEL BAR/MAG GRATE & INLET FILTER PER MANUFACTURER'S RECOMMENDATIONS & DETAILS
D35	INSTALL 30" Ø NYLOPLAST DRAIN BASIN WITH SOLID COVER PER MANUFACTURER'S RECOMMENDATIONS & DETAILS
D40	INSTALL 30" Ø ADS FLARED END SECTION
D45	INSTALL CUSTOM BEND FITTING PER PLAN
D50	INSTALL RIPRAP (D50=6") PLACE 12" THICK OVER HEAVY DUTY FILTER FABRIC

PAVING KEYNOTES	
KEY	DESCRIPTION
P5	SAWCUT, REMOVE & REPLACE EXISTING PAVEMENT PER QCSD 200Q-1
P10	INSTALL 40' WIDE DRIVEWAY ENTRANCE PER QCSD 250Q-1
P15	INSTALL 5" OF PCC WITH #4 REBAR @ 24" O.C. BOTH WAYS OVER 4" OF ABC OVER 8" OF PREPARED SUBGRADE
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P25	INSTALL BOLLARD - TYPE 1 PERMANENT PER QCSD 140Q
P30	INSTALL DUMPSTER ENCLOSURE PER COP STD DTL 144P
P35	INSTALL PRECAST SAFETY CURB PER MAG SD 150
P40	INSTALL SINGLE CURB - TYPE 'A' PER QCSD 222Q
P45	INSTALL SIDEWALK (WIDTHS PER PLAN) PER QCSD 230Q
P50	INSTALL SIDEWALK (WIDTHS PER PLAN) PER QCSD 230Q MODIFIED - 5" THICK CONCRETE WITH #4 REBAR @ 24" O.C. BOTH WAYS
P55	INSTALL PARKING LOT (SINGLE & GORE) STRIPING PER PLAN & COP REQUIREMENTS
P60	INSTALL ADA COMPLIANT HANDICAP STRIPING & SIGNAGE PER PLAN & COP REQUIREMENTS
P65	INSTALL DETECTABLE WARNING (TRUNCATED DOMES) PER QCSD 233Q-1

ESTIMATED FINISHED GRADE EARTHWORK QTYS
RAW CUT =825 CY
RAW FILL =4,400 CY
NET = 3,575 CY (IMPORT)

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1 COP ROUND 1 COMMENTS	BH

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Expires 12/31/20

W. Alan Kenson & Associates, P.C.
P 928-443-5812
F 928-443-5815
P.O. Box 11593
Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: CIVIL IMPROVEMENT PLANS
GRADING & DRAINAGE PLAN

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY	BH
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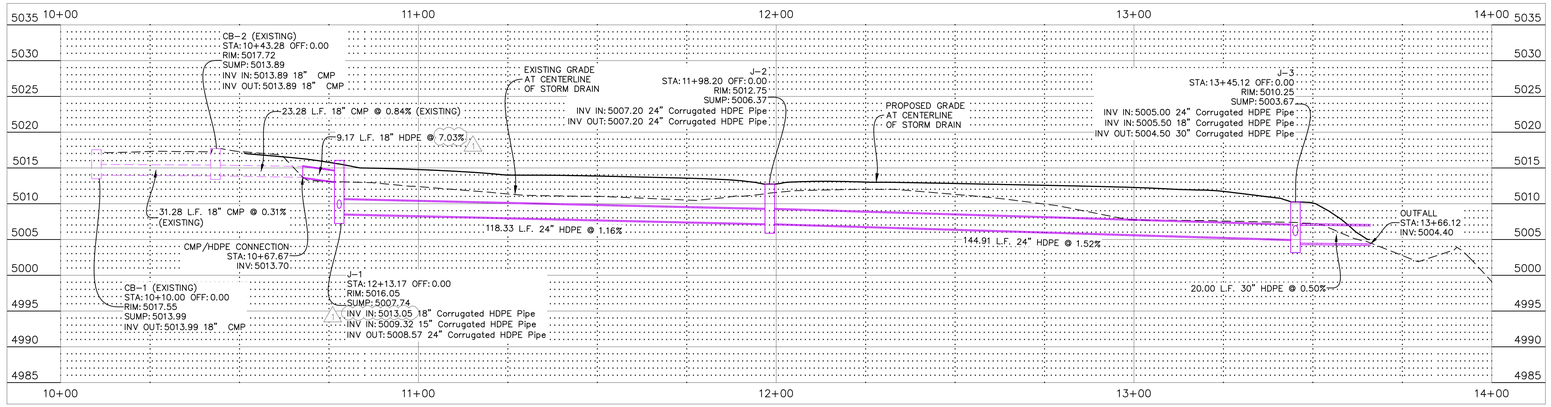
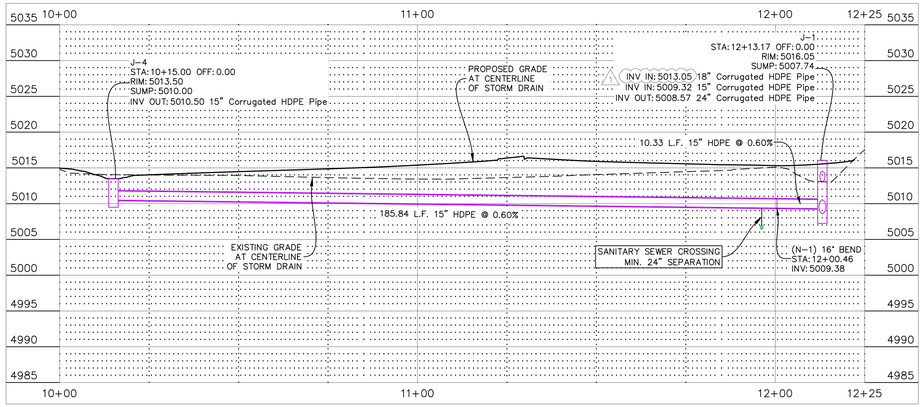
DATE	September 28, 2021
JOB NO.	759
SHEET	C8

Sep 28, 2021 - 4:48pm FILE: Z:\Projects\2020\20113\DWG\CIVIL PLANS\20113--08--GRADING & DRAINAGE.dwg <<C3D_Imperial>>



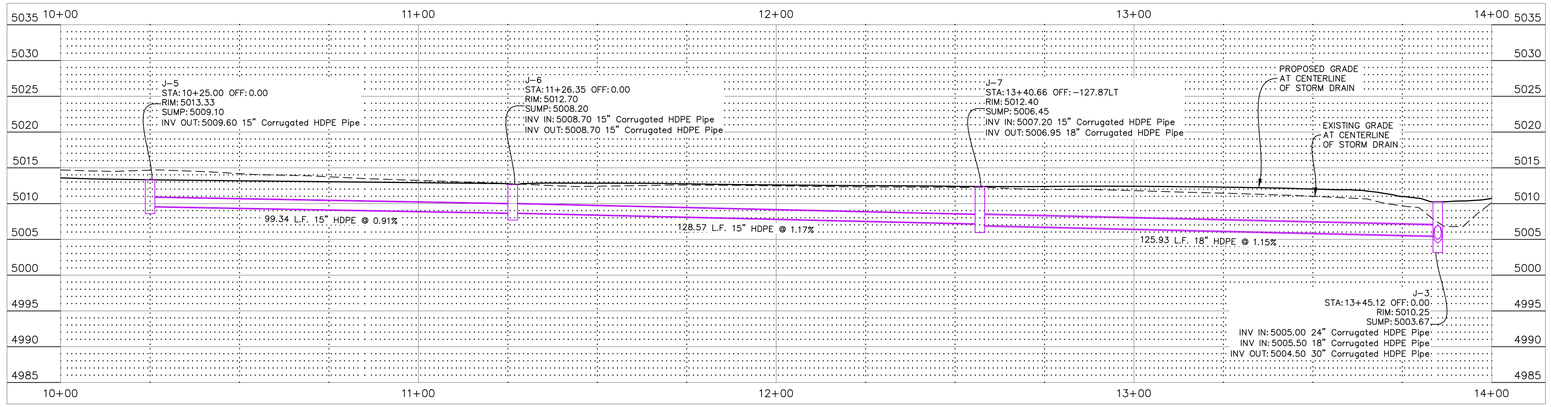
STORM DRAIN PROFILE 'A'

SCALE: 1" = 20' HORIZ.
1" = 10' VERT.



STORM DRAIN PROFILE 'B'

SCALE: 1" = 20' HORIZ.
1" = 10' VERT.



STORM DRAIN PROFILE 'C'

SCALE: 1" = 20' HORIZ.
1" = 10' VERT.

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P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: CIVIL IMPROVEMENT PLANS
STORM DRAIN PROFILES

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

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DATE	September 28, 2021
JOB NO.	759
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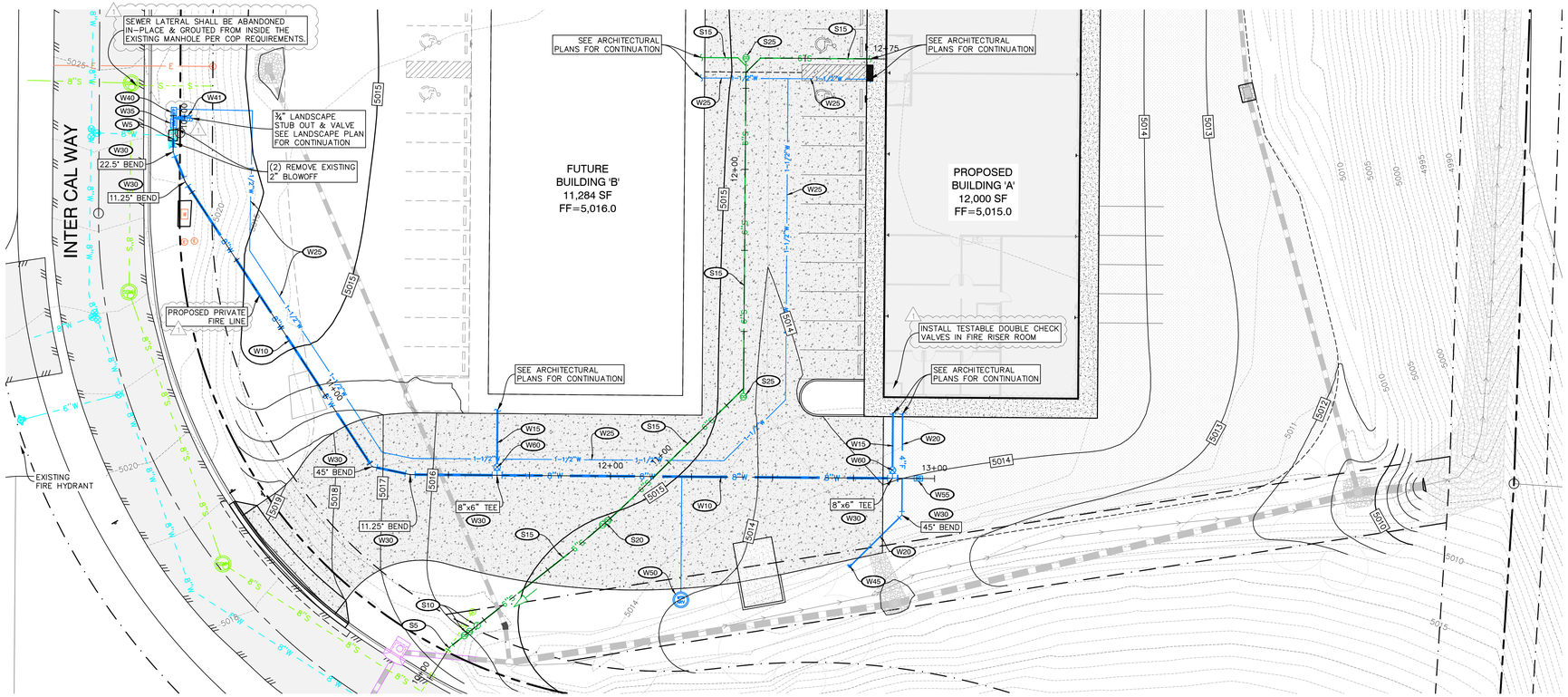
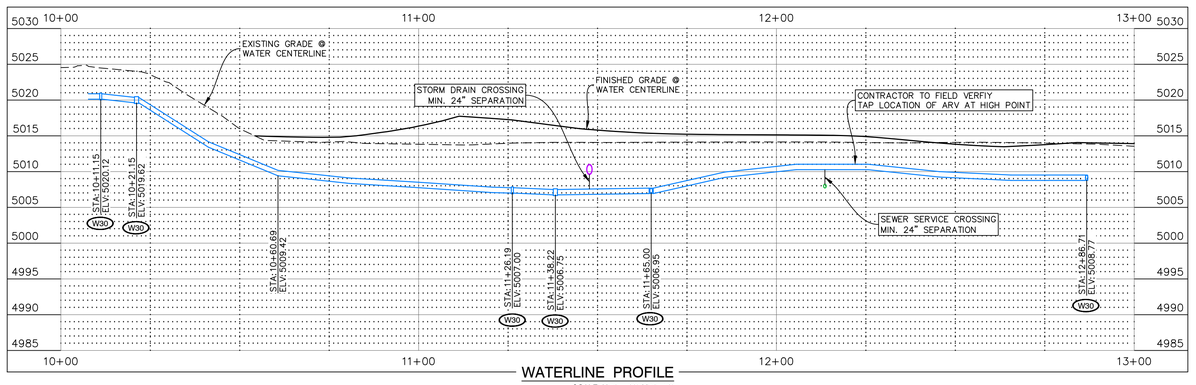
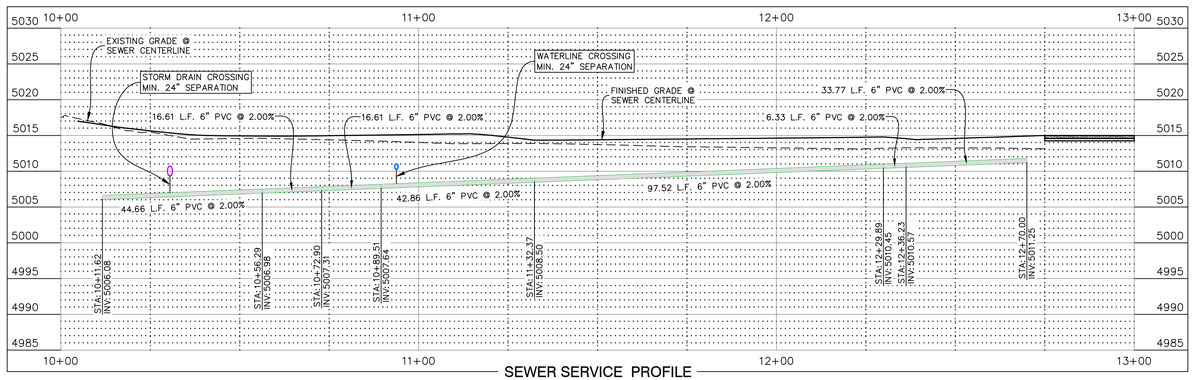
Sep 28, 2021 - 4:49pm FILE: Z:\Projects\2020\20113\DWG\CIVIL PLANS\20113--09--STORM DRAIN PROFILES.dwg <<C3D_Imperial>>





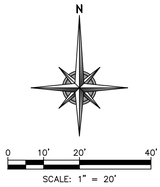
WATERLINE PROFILE

SCALE: H:1" = 20', V:1"=10'



SEWER SERVICE PROFILE

SCALE: H:1" = 20', V:1"=10'



SEWER KEYNOTES

KEY	DESCRIPTION
S5	CONNECT TO EXISTING SEWER LATERAL WITH 22.5° BEND
S10	INSTALL 6" Ø DOUBLE CLEANOUT & BACKWATER VALVE PER COP STD DTL 440P-3
S15	INSTALL 6" Ø SDR 35 PVC SEWER LATERAL WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1
S20	INSTALL 6" Ø SEWER (IN-LINE) CLEANOUT PER COP STD DTL 440P-1 & 2
S25	INSTALL 6" Ø SEWER (END-OF-LINE) CLEANOUT PER QCSD 441Q

WATER KEYNOTES

KEY	DESCRIPTION
W5	CONNECT TO EXISTING 8" Ø WATER MAIN
W10	INSTALL 8" Ø C-900/CL305 DR14 PVC WATERLINE WITH TRENCHING, BEDDING, & BACKFILL PER COP STD DTL 200P-2
W15	INSTALL 6" Ø C-600/CL350 DIP FIRE LINE TO FIRE RISER WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1
W20	INSTALL 4" Ø C-600/CL350 DIP FIRE LINE TO REMOTE FDC WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1
W25	INSTALL 1-1/2" Ø SCH-40 PVC DOMESTIC YARD LINE TO BUILDING WITH TRENCHING, BEDDING, & BACKFILL PER QCSD 200Q-1
W30	INSTALL WATER FITING WITH JOINT RESTRAINT PER QCSDS 303Q-1 & 2
W35	INSTALL 1" WATER METER AND SERVICE LINE PER COP STD DTL 316P
W40	INSTALL 1" BACKFLOW PREVENTION ASSEMBLY PER QCSD 324Q-1 IN AN ELECTRONICALLY HEATED ASSE 1060 CLASS 1 HOTBOX
W41	INSTALL 3/4" BACKFLOW PREVENTION ASSEMBLY FOR LANDSCAPE IRRIGATION PER QCSD 324Q-1 IN AN ELECTRONICALLY HEATED ASSE 1060 CLASS 1 HOTBOX
W45	INSTALL REMOTE FIRE DEPARTMENT CONNECTION WITH LOCKING CAPS PER COP FIRE DEPARTMENT REQUIREMENTS
W50	INSTALL AIR VACUUM RELEASE VALVE ASSEMBLY PER QCSD 317Q-1
W55	INSTALL BLOW OFF FOR TRAFFIC AREAS PER COP STD DTL 318P
W60	INSTALL 6" GATE VALVE PER QCSDS 301Q & 391Q

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APN: 103-50-054B & 103-50-054C

DRAWN BY	BH
CHECKED BY	BH
DATE	September 28, 2021
JOB NO.	759
SHEET	C10

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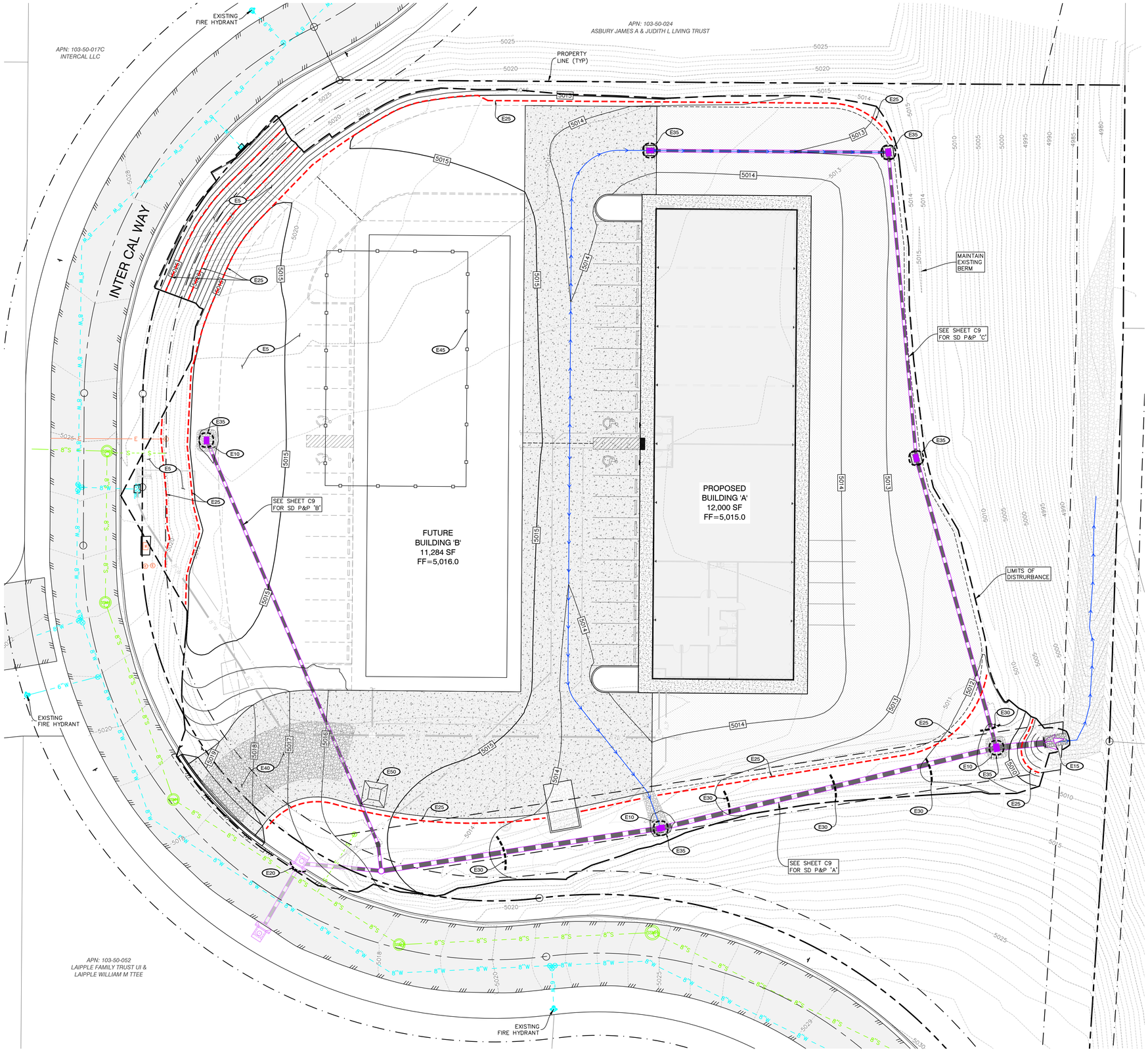

N

0 10' 20' 40'

SCALE: 1" = 20'

EROSION CONTROL QUANTITIES

KEY	DESCRIPTION	QTY	UNIT
E5	HYDROSEED DISTURBED AREAS PER EPCM EC-3 - EC-5	1	LS
E10	APPLY EROSION PROTECTION AT STRUCTURE PER EPCM RC-3	3	EA
E15	INSTALL ROCK OUTLET PROTECTION PER EPCM RC-4	1	EA
E20	INSTALL CURB INLET PROTECTION PER EPCM SC-9	1	EA
E25	INSTALL SEDIMENT WADDLE PER EPCM SC-5	1,075	LF
E30	INSTALL SEDIMENT LOG PER EPCM SC-6	5	EA
E35	APPLY STORM DRAIN INLET PROTECTION PER EPCM SC-8	6	EA
E40	INSTALL STABILIZED CONSTRUCTION ACCESS PER EPCM SC-10	1	EA
E45	MATERIAL DELIVERY & STORAGE AREA PER EPCM GH-5	1	LS
E50	APPLY CONCRETE WASTE MANAGEMENT PER EPCM WM-4	1	EA

EROSION CONTROL NOTES:

1. TOTAL AREA OF DISTURBANCE ≈ 2.37 ACRES WHICH WARRANTS COVERAGE UNDER ADEQ'S CONSTRUCTION GENERAL PERMIT.
2. THE CONTRACTOR IS RESPONSIBLE FOR FILING THE NOTICE OF INTENT (NOI) FOR CONSTRUCTION ACTIVITY DISCHARGES WITH ADEQ PRIOR TO ANY CONSTRUCTION ACTIVITIES.
3. PERMANENT STABILIZATION TO BE SUPPLEMENTED BY LANDSCAPE PLAN AND RIPRAP.
4. ADEQ AUTHORIZATION NOTICE SHALL BE POSTED ON-SITE NEAR CONSTRUCTION ENTRANCE.
5. REFER TO ADOT'S EROSION AND POLLUTION CONTROL MANUAL (EPCM) FOR BMP INSTALLATION INSTRUCTIONS.
6. APPLY CONSTRUCTION SITE PLANNING & MANAGEMENT PER EPCM CP-1 & CP-2.
7. KEEP SITE CLEAN OF DUST AND DEBRIS. LIMIT DUST TO LOWEST PRACTICABLE LEVEL BY SPRINKLING WITH WATER.
8. ALL DISTURBED AREAS SHALL BE HYDRO-SEEDED PER ADOT EPCM BMP EC-4 WITH SEED MIX PER CITY OF PRESCOTT SPECIFICATIONS.
9. ALL STOCKPILED MATERIAL STORED FOR THIS PROJECT FOR MORE THAN SEVEN (7) DAYS SHALL BE SURROUNDED BY SEDIMENT WADDLES PER ADOT EPCM BMP GH-7.
10. VEHICLE FUELING & MAINTENANCE SHALL BE DONE IN ACCORDANCE WITH ADOT EPCM BMPS GH-2 & GH-3.
11. TRASH RECEPTICLE, PORTABLE TOILET, & SPILL RESPONSE KIT SHALL BE LOCATED WITHIN THE DESIGNATED EQUIPMENT/MATERIAL STORAGE AREA.
12. POLLUTANT GENERATING WASH DOWN, FUELING, AND MAINTENANCE ACTIVITIES SHALL BE CONDUCTED WITHIN THE DESIGNATED EQUIPMENT/MATERIAL STORAGE AREA(S).
13. VEHICLES SHALL ONLY ENTER AND EXIT THROUGH THE STABILIZED CONSTRUCTION ENTRANCE(S) SHOWN ON THE EROSION CONTROL PLAN.
14. THIS SITE HAS NO SURFACE WATER BODIES.
15. IN THE EVENT OF A SPILL, THE SWPPP OPERATOR SHALL IMMEDIATELY CONTACT THE FIRE DEPARTMENT, AND THE CITY OF PRESCOTT, AND WITHIN 24 HOURS ADEQ AT (602-771-2330).

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Registered Professional Engineer (Civil) CERTIFICATE NO. 45636 BEN B. HUZA Date Signed 9/28/21 ARIZONA, U.S.A. Expires 12/31/22

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

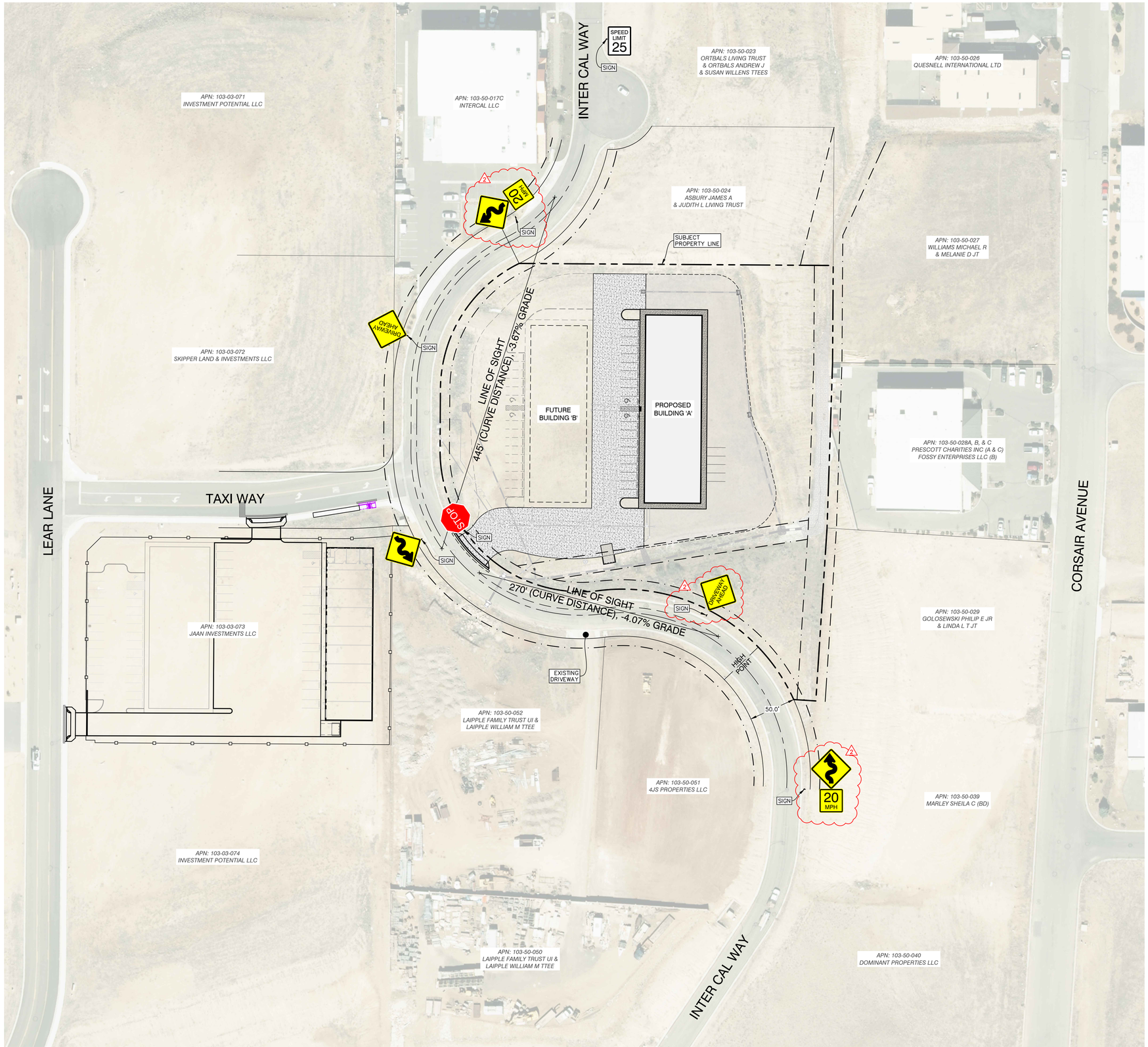
DRAWING: CIVIL IMPROVEMENT PLANS
EROSION CONTROL PLAN

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY	BH
CHECKED BY	BH
DATE	September 28, 2021
JOB NO.	759
SHEET	C11

FILE: Z:\Projects\2020\20113\DWG\CIVIL PLANS\20113-11-EROSION CONTROL.dwg <<C3D_Imperial>>
Sep 28, 2021 - 4:52pm



N

0 25' 50' 100'

SCALE: 1" = 50'

INTER CAL WAY COMMERCIAL/INDUSTRIAL COLLECTOR (DESIGN SPEED 40 MPH)		
DESIGN SPEED	BASE LINE STOP DISTANCE	
40 MPH	STOP NB ADJUSTED WITH GRADE	320'
40 MPH	STOP SB ADJUSTED WITH GRADE	319'
35 MPH	STOP NB ADJUSTED WITH GRADE	262'
35 MPH	STOP SB ADJUSTED WITH GRADE	260'
30 MPH	STOP NB ADJUSTED WITH GRADE	208'
30 MPH	STOP SB ADJUSTED WITH GRADE	207'
25 MPH	STOP NB ADJUSTED WITH GRADE	160'
25 MPH	STOP SB ADJUSTED WITH GRADE	159'

NOTE: PROPOSED TRAFFIC SIGNS SHALL MEET MUTCD & COP REQUIREMENTS WITH SIGN POSTS PER QCSD 131Q.

GENERAL NOTES:

1. THIS MAP DOES NOT REPRESENT THE RESULTS OF A BOUNDARY SURVEY. NO BOUNDARY SURVEY WAS PERFORMED OR IS IMPLIED BY THIS MAP.
2. ALL EASEMENTS OF RECORD MAY NOT BE PLOTTED HEREON.
3. TOPOGRAPHIC SURVEY PROVIDED BY GRANITE BASIN ENGINEERING, INC. (GBE) IN NOVEMBER 2020.
4. SITE AND BUILDING PLAN DEVELOPED BY W. ALAN KENSON & ASSOCIATES, P.C. (WAKA).
5. COOPERATION WITH UTILITIES SHALL BE DONE IN ACCORDANCE WITH SECTION 105.6 OF MAG SPECIFICATIONS.
6. DRY UTILITY PROVIDERS MUST BE CONSULTED WITH FOR RELOCATION OF EXISTING UTILITIES IN CONFLICT WITH PROPOSED IMPROVEMENTS.
7. EXISTING UTILITY INFORMATION IS APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. HORIZONTAL LOCATIONS ARE BASED ON FIELD SURVEY & AS-BUILT DATA. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS & ELEVATIONS PRIOR TO CONSTRUCTION.
8. REMOVALS SHALL BE DONE IN ACCORDANCE WITH MAG SPECIFICATIONS SECTION 350.

REVISIONS	BY
2 COP ROUND 2 COMMENTS	BH

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ARCHITECTURE & PLANNING

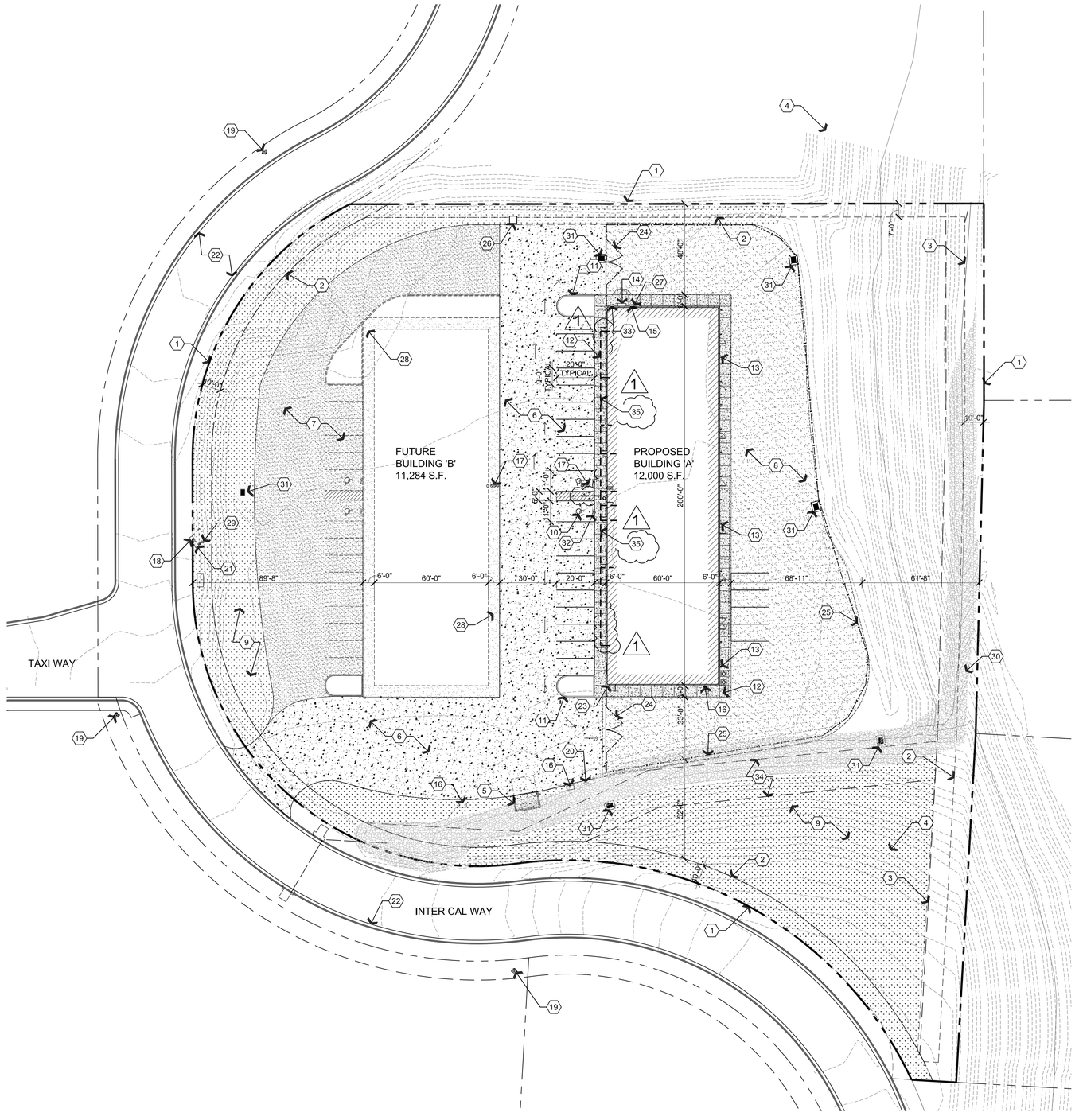
DRAWING: CIVIL IMPROVEMENT PLANS
TRAFFIC SIGN PLAN

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY	BH
CHECKED BY	BH
DATE	September 28, 2021
JOB NO.	759
SHEET	C12

Sep 28, 2021 - 4:53pm FILE: Z:\Projects\2020\20113\DWG\CIVIL PLANS\20113-12-TRAFFIC SIGN PLAN.dwg <<C3D_Imperial>>



A1 Site Plan

Scale: 1"=30'-0"

Plan North

Descriptive Keynotes

1. PROPERTY LINE.
2. BUILDING SETBACK LINE.
3. EASEMENT LINE.
4. EXISTING CONTOUR LINE.
5. 6'-0" HIGH DUMPSTER ENCLOSURE IN ACCORDANCE WITH CITY OF PRESCOTT'S STANDARD DETAIL NO. 4-15P. REFER TO DETAIL A1/A0.1.
6. PROVIDE CONCRETE PAVEMENT OVER COMPACTED A.B.C., REFER TO CIVIL PLANS.
7. FUTURE CONCRETE PAVEMENT / PARKING LOT.
8. AGGREGATE BASE COURSE COMPACTED PER THE CITY OF PRESCOTT'S REQUIREMENTS FOR A 75,000 LB APPARATUS.
9. LANDSCAPE AREA, REFER TO LANDSCAPE PLANS.
10. ADA ACCESSIBLE PARKING, REFER TO DETAIL ON SHEET A0.1.
11. CAST IN PLACE CONCRETE CURB, REFER TO CIVIL PLANS.
12. PROVIDE CONCRETE SIDEWALK OVER COMPACTED A.B.C.
13. 6'-0" LONG, 4" DIAMETER, CONCRETE FILLED, PROTECTIVE STEEL BOLLARDS, EMBEDDED 2'-0" BELOW GRADE INTO CONCRETE FOOTING, TYPICAL AT EACH ROLL-UP DOOR AND AS INDICATED ELSEWHERE.
14. ELECTRICAL SERVICE ENTRANCE SECTION, REFER TO ELECTRICAL PLANS.
15. CABLE TV TERMINAL BOX, REFER TO ELECTRICAL PLANS.
16. NATURAL GAS METER / REGULATOR, REFER TO PLUMBING PLANS.
17. 2-WAY SEWER CLEAN OUT AND BACKWATER VALVE, REFER TO CIVIL / PLUMBING PLANS.
18. WATER METER, REFER TO CIVIL PLANS.
19. EXISTING FIRE HYDRANT.
20. PROPOSED REMOTE FIRE DEPARTMENT CONNECTION WITH LOCKING CAPS, REFER TO CIVIL PLANS.
21. REDUCED PRESSURE BACKFLOW PREVENTION DEVICE IN HOT BOX FOR DOMESTIC WATER, REFER TO CIVIL PLANS.
22. EXISTING CURB / GUTTER.
23. PROVIDE FIRE DEPARTMENT LOCK BOX MOUNTED 6'-0" A.F.F.
24. PAIR OF 6' TALL 12' CHAIN LINK GATES, WITH KNOX BOX, BY OWNER.
25. 6' TALL CHAIN LINK FENCE TOPPED WITH A THREE STRAND 45 DEGREE SECURITY ARM, BY OWNER.
26. PROPOSED ELECTRICAL TRANSFORMER.
27. TELEPHONE TERMINAL BOX, REFER TO ELECTRICAL PLANS.
28. FUTURE CONCRETE SIDEWALK OVER COMPACTED A.B.C.
29. BACKFLOW PREVENTOR IN 'HOT BOX' FOR DRIP IRRIGATION SYSTEM, REFER TO LANDSCAPE / CIVIL PLANS.
30. EXISTING RIP-RAP DRAINAGE CHANNEL, REFER TO CIVIL PLANS.
31. STORM DRAIN INLET, REFER TO CIVIL PLANS.
32. PROVIDE ADA PARKING SIGNAGE PER DETAIL ON SHEET A0.1.
33. PROVIDE LANDSCAPE TIMER.
34. DRAINAGE EASEMENT, REFER TO CIVIL PLANS.
35. ACCESSIBLE ROUTE.

PARKING CALCULATIONS

LIGHT MANUFACTURING 12,000 SF / 500 = 24 PARKING SPACES

TOTAL PARKING SPACES REQUIRED =24
TOTAL PARKING SPACES PROVIDED = 24

REVISIONS	BY
1 City of Prescott Comments 6/24/2021	LO

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REGISTERED ARCHITECT
25646
W. ALAN KENSON
Date Signed 04/27/21
ARIZONA
EXPIRES: 6/30/21

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F 928-443-5815
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ARCHITECTURE & PLANNING

DRAWING: Site Plan

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	April 27th, 2021
JOB NO.	759
SHEET	A0.0

Aug 20, 2021 - 8:16am

REVISIONS	BY
1 City of Prescott Comments 6/24/2021	LO

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ARCHITECTURE & PLANNING

DRAWING: Site Details

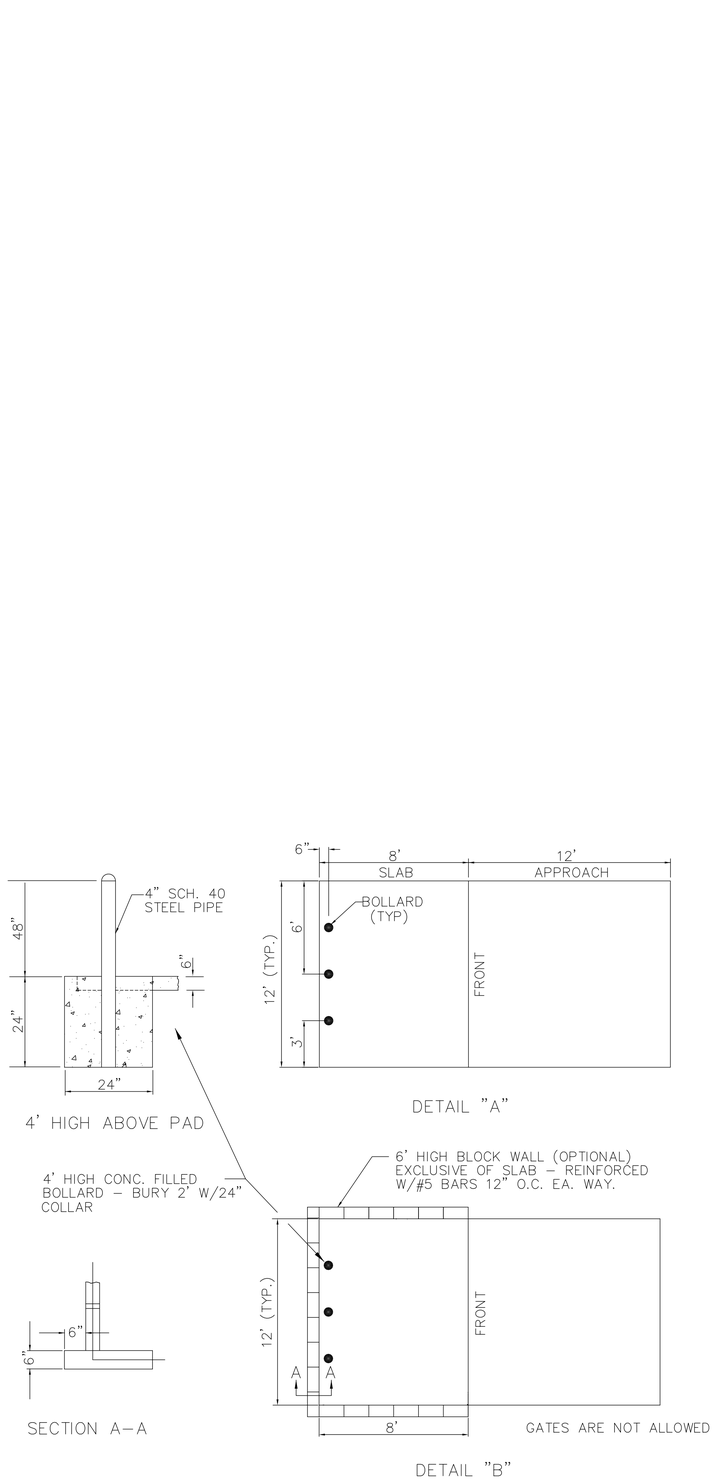
PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D

1

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	April 27th, 2021
JOB NO.	759
SHEET	A0.1

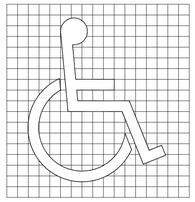
COP STANDARD DETAIL
DETAIL NO.
4-15P



SLAB DATA

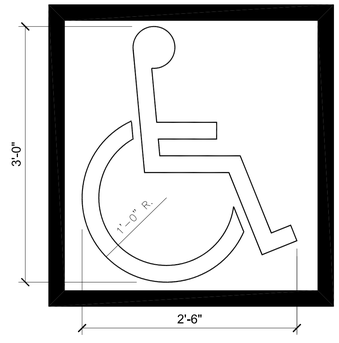
1. MIN. 6" THICK CLASS "A" CONCRETE ON 4" A.B.C. 95% COMP. AS PER YAG & MAG 340 & 725
2. SLAB TO BE REINFORCED W/ 6x6 – 8/8 W.W.F.
3. SLAB TO BE POURED TO THE SAME ELEV. AS THE APPROACH.

A1 Sanitation Dumpster Detail
SCALE: 1/4" = 1'-0"



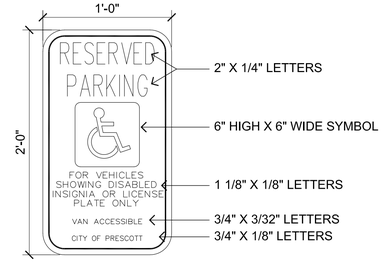
PROPORTIONS

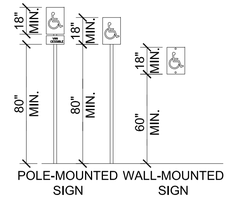
DISPLAY CONDITIONS



SYMBOL @ PARKING SPACE

C1 ADA Symbol of Accessibility
SCALE: N.T.S.





1. THE SIGN PLATE SHALL BE A MINIMUM OF 12"x24" WITH A THICKNESS OF .080 ALUMINUM CONSTRUCTION.
2. THE SIGN FACE SHALL HAVE A WHITE REFLECTIVE BACKGROUND WITH A BLUE LEGEND. (STANDARD 3M SCOTCHLITE SIGN FACE NUMBER R7-32 OR EQUIVALENT, WITH BLUE SCREEN PRINTED LETTER AS SHOWN ABOVE.)
3. ALL ACCESSIBLE PARKING SPACES SHALL BE IDENTIFIED BY A SIGN ON A CITY APPROVED STATIONARY POST OR WALL LOCATION. THESE SIGNS SHALL NOT BE OBSCURED.
4. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED FOR PHYSICALLY DISABLED BY A SIGN SHOWING THE INTERNATIONAL WHEELCHAIR SYMBOL IN COLOR SCHEME ON CONTRASTING BACKGROUND.
5. THE SIGN SHALL HAVE THE MINIMUM VERBIAGE OF "RESERVED PARKING" AND INTERNATIONAL WHEELCHAIR SYMBOL.

D1 Accessible Parking Signage
SCALE: N.T.S.

Aug 20, 2021 - 8:20am

Wall Types Legend

- A — EXTERIOR METAL BUILDING WALL: PROVIDE EXTERIOR METAL BUILDING SIDING 'A' PANELS OVER 8" HORIZONTAL GIRTS. PROVIDE R-11 VINYL BACKED INSULATION ON EXTERIOR SIDE AND 6" R-19 UNFACED INSULATION IN 8" VOID.
- B — EXTERIOR METAL STUD WALL: PROVIDE 6" 18 GA. STEEL STUDS AT 2'-0" O.C. PROVIDE R-19 UNFACED BATT INSULATION. ON EXTERIOR SIDE PROVIDE METAL BUILDING SIDING 'A' PANELS OVER 1/2" HAT CHANNELS AT 48" O.C. RUNNING HORIZONTALLY.
- C — 6" STUD WALL: PROVIDE 6" 20 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDES. PROVIDE R-19 UNFACED BATT INSULATION.
- D — 1-5/8" STUD WALL: PROVIDE 1-5/8", 25 GA. STEEL STUDS @ 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDE.
- E — 6" STUD WALL: PROVIDE 6" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDES. PROVIDE R-19 UNFACED BATT INSULATION.
- F — 3-5/8" STUD WALL: PROVIDE 3-5/8", 25 GA. STEEL STUDS @ 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDES. PROVIDE R-11UNFACED BATT INSULATION.

8'-0" HIGH METAL WALL LINER 'R' PANELS

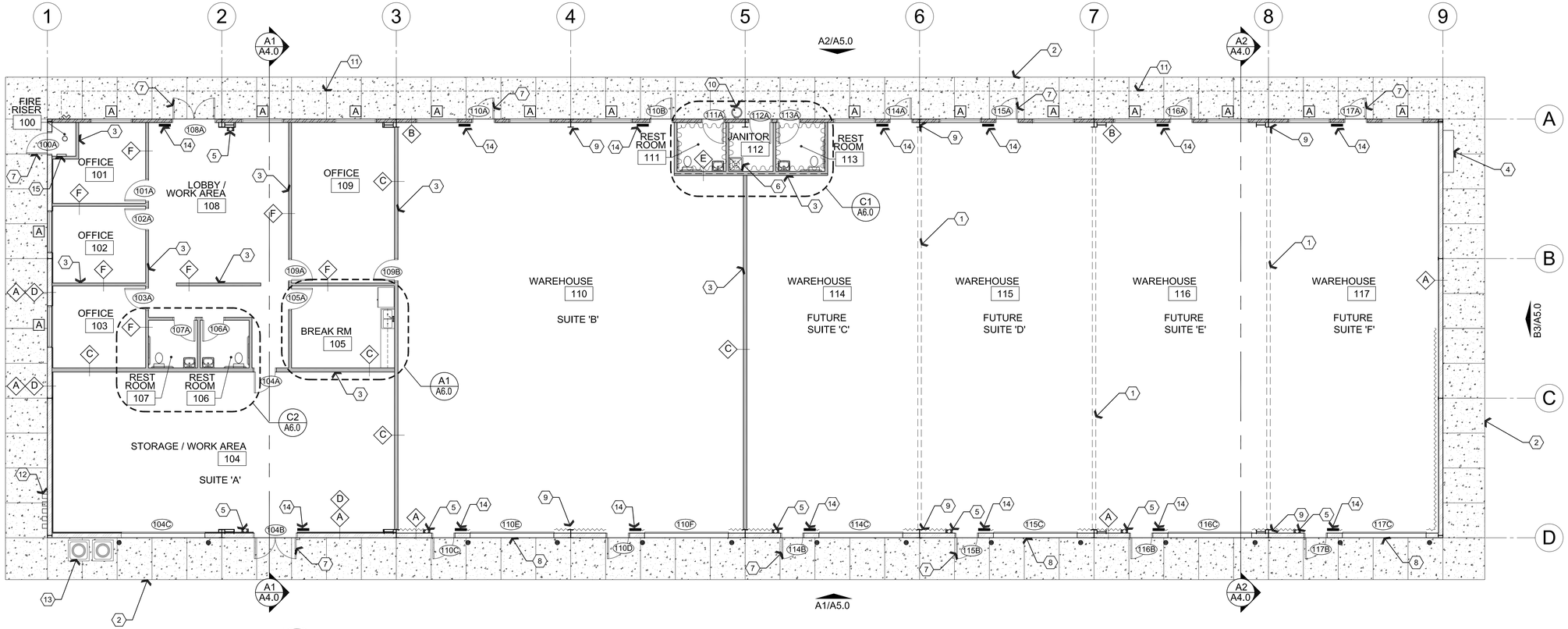
4'-0" HIGH FRP

Descriptive Keynotes

1. PROPOSED POTENTIAL FUTURE LOCATION OF WALLS.
2. PROVIDE 4" CONCRETE SIDEWALK OVER 4" COMPACTED A.B.C., REFER TO SITE PLAN AND CIVIL PLANS.
3. PROVIDE INTERIOR WALL, REFER TO WALL TYPES LEGEND FOR TYPE OF CONSTRUCTION.
4. PROVIDE ELECTRICAL SERVICE ENTRANCE SECTION, REFER TO ELECTRICAL PLANS.
5. PROVIDE TYPE 2A10BC FIRE EXTINGUISHER IN SURFACE MOUNTED WALL CABINET. FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE (IFC) AND NFPA 10.
6. PROVIDE MOP SINK, REFER TO PLUMBING PLANS.
7. PROVIDE DOOR, REFER TO DOOR SCHEDULE. (TYPICAL)
8. PROVIDE SECTIONAL ROLL UP DOOR, REFER TO DOOR SCHEDULE. (TYPICAL)
9. PROVIDE STEEL COLUMN, REFER TO STRUCTURAL PLANS. (TYPICAL)
10. ELECTRIC DRINKING FOUNTAIN, REFER TO PLUMBING PLANS.
11. LINE OF CANOPY ABOVE.
12. GAS METER, REFER TO PLUMBING PLANS.
13. HVAC CONDENSER, REFER TO MECHANICAL PLANS.
14. PROVIDE A 6"x9" BLUE TACTILE, BRAILLE, 'EXIT' SIGN AS MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980)' OR EQUAL COMPLYING WITH ICC/ANSI A117.1 SECTION 703.1 AND IBC 1013 & SECTION 1111, ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE.
15. PROVIDE FIRE ALARM CONTROL PANEL.

EXIT SIGNS:

- PROVIDE A 6"x9" BLUE TACTILE, BRAILLE, 'EXIT' SIGN AS MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980)' OR EQUAL COMPLYING WITH ICC/ANSI A117.1 SECTION 703.1 AND IBC 1013 & SECTION 1111, ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE.



A1 Reference / Wall Types Floor Plan

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

Plan North

Aug 20, 2021 - 8:17am

REVISIONS	BY
1 City of Prescott Comments 6/24/2021	LO

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REGISTERED ARCHITECT — CERTIFICATE NO. 25646 — W. ALAN KENSON — Date Signed 04/27/21 — ARIZONA — EXPIRES: 6/30/21

W. Alan Kenson & Associates, P.C.
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Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

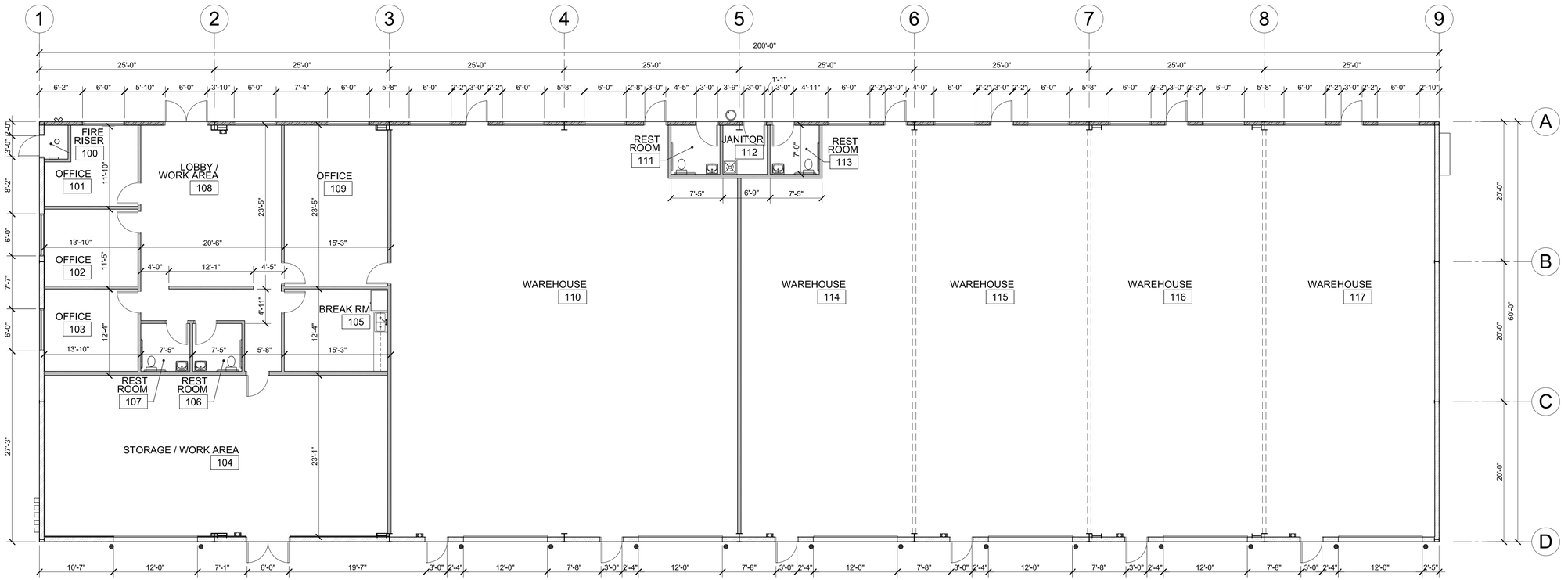
DRAWING: Reference / Wall Types Floor Plan

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D

1

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	April 27th, 2021
JOB NO.	759
SHEET	A1.0



A1 Dimension Floor Plan

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

Plan North

Aug 20, 2021 - 8:21am

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1 City of Prescott Comments 6/24/2021	LO

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ARCHITECTURE & PLANNING

DRAWING: Dimension Floor Plan

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D

1

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: April 27th, 2021
JOB NO.: 759
SHEET:

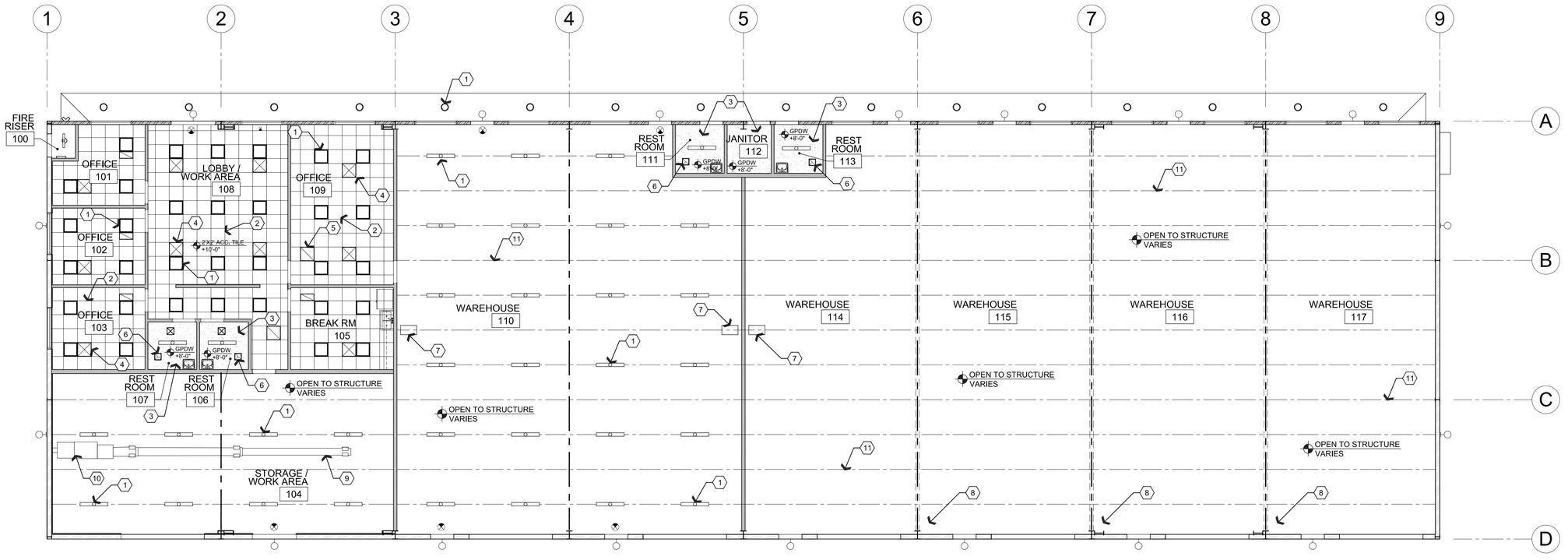
A1.1

Legend

- 2'x2' ACOUSTIC PANEL CEILING
- GPDW CEILING
- 2'X2' LED LIGHT FIXTURE
- LED CAN LIGHT
- EMERGENCY EXIT SIGN WITH BATTERY BACK UP
- STRIP LIGHT FIXTURE
- HVAC SUPPLY DIFFUSER
- HVAC RETURN
- EXHAUST FAN
- WALL MOUNTED LIGHT FIXTURE

Descriptive Keynotes

1. LIGHT FIXTURE(S) SHOWN FOR QUANTITY AND LOCATION ONLY. REFER TO ELECTRICAL PLANS.
2. PROVIDE SUSPENDED ACOUSTIC PANEL CEILING, REFER TO MATERIALS SCHEDULE. ACT-1
3. PROVIDE 5/8" GPDW CEILING ATTACHED TO 3⅝", 25 GAUGE, METAL JOISTS @ 2'-0" O.C.
4. HVAC SUPPLY DIFFUSER, REFER TO MECHANICAL PLANS, TYPICAL.
5. HVAC RETURN GRILLE, REFER TO MECHANICAL PLANS, TYPICAL.
6. EXHAUST FAN, REFER TO MECHANICAL PLANS, TYPICAL.
7. PROVIDE UNIT HEATER, REFER TO MECHANICAL PLANS.
8. GAS STUB OUT FOR FUTURE UNIT HEATER, REFER TO PLUMBING PLANS.
9. EXPOSED SHEET METAL HVAC DUCTWORK, REFER TO MECHANICAL PLANS.
10. HVAC UNIT, REFER TO MECHANICAL PLANS.
11. ROOF PURLIN, REFER TO STRUCTURAL PLANS.



A1 Reflected Ceiling Plan

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

Plan North

Aug 20, 2021 - 8:21am

REVISIONS	BY
1 City of Prescott Comments 6/24/2021	LO

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ARCHITECTURE & PLANNING

DRAWING: Reflected Ceiling Plan

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D

1

DRAWN BY	L.O.
CHECKED BY	W.A.K.
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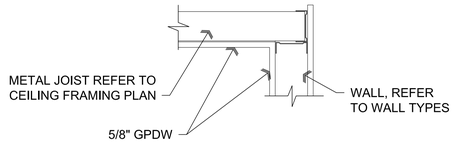
SHEET	A2.0

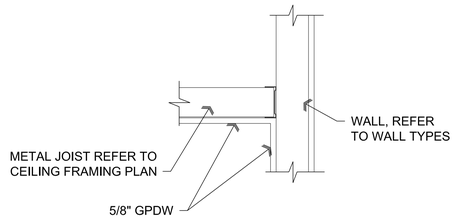
Descriptive Keynotes

1. PROVIDE 3-5/8", 25 GA. METAL JOIST @ 2'-0" O.C.



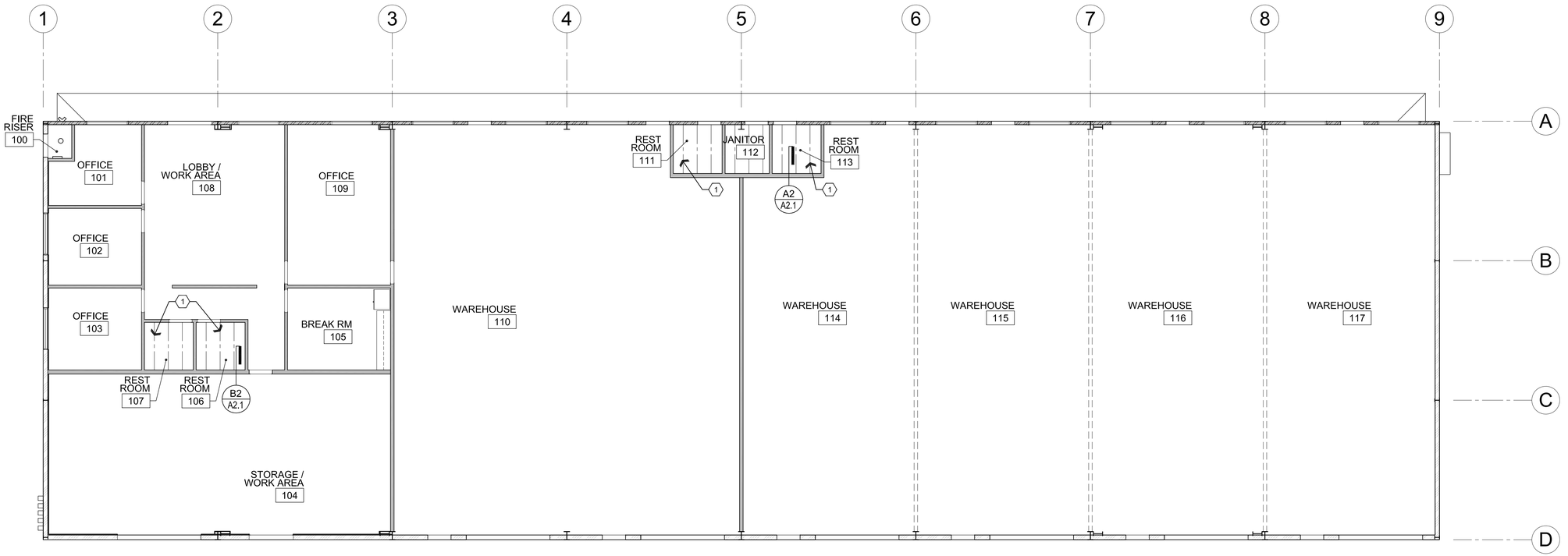
A2 Ceiling Framing Detail

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



B2 Ceiling Framing Detail

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



A1 Ceiling Framing Plan

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

Plan North

REVISIONS	BY
1 City of Prescott Comments 6/24/2021	LO

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ARCHITECTURE & PLANNING

DRAWING: Ceiling Framing Plan

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6601 Inter Cal Way
Prescott, AZ 86301

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DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	April 27th, 2021
JOB NO.	759
SHEET	A2.1

Aug 20, 2021 - 8:22am

Roof Drain Leader Sizes:

ROOF AREA : 11,788

4" RAINFALL = .0416 GPM

.0416 x 11,788 = 490 GPM

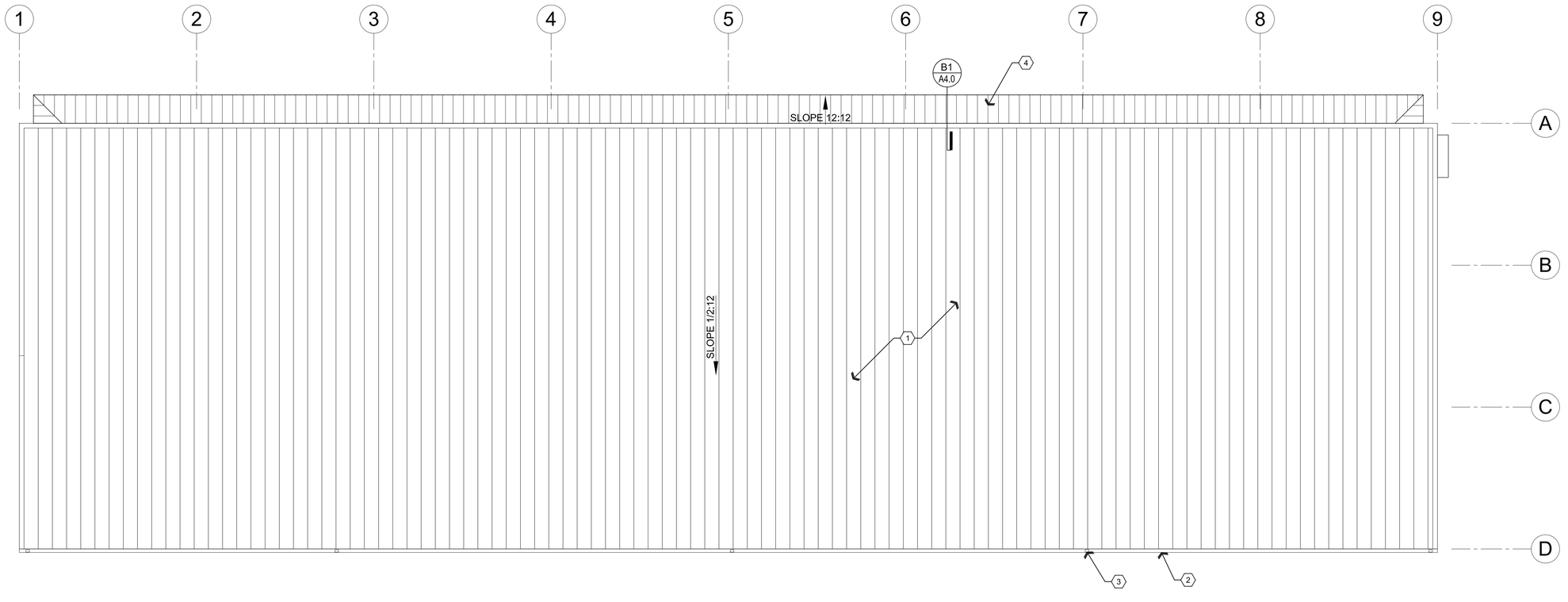
490 / 192 (3-1/2"x4")= 2.55

3-1/2" x 4" DOWNSPOUTS = 3 LEADERS REQUIRED
5 LEADERS PROVIDED

3" x 5" GUTTER REQUIRED WITH 1/2" SLOPE (225 GPM)
*PER 2018 IPC SECTION 1106 (TABLE 1106.3 &1106.6)

Descriptive Keynotes

1. PROVIDE 24 GAUGE GALVALUME STANDING SEAM SHEET METAL ROOF PANELS, REFER TO MATERIALS SCHEDULE. M-2
2. PROVIDE SHEET METAL GUTTER, REFER TO MATERIALS SCHEDULE. M-5
3. PROVIDE DOWNSPOUT, TYPICAL OF 5, REFER TO MATERIALS SCHEDULE. M-4
4. PROVIDE LOKSEAM' METAL AWNING SYSTEM, REFER TO STRUCTURAL PLANS AND MATERIALS SCHEDULE. M-3



A1 Roof Plan

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

Plan North

Aug 20, 2021 - 8:22am

REVISIONS	BY
1 City of Prescott Comments 6/24/2021	LO

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REGISTERED ARCHITECT
CERTIFICATE NO.
25646
W. ALAN KENSON
Date Signed 04/27/21
ARIZONA
EXPIRES: 6/30/21

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Roof Plan

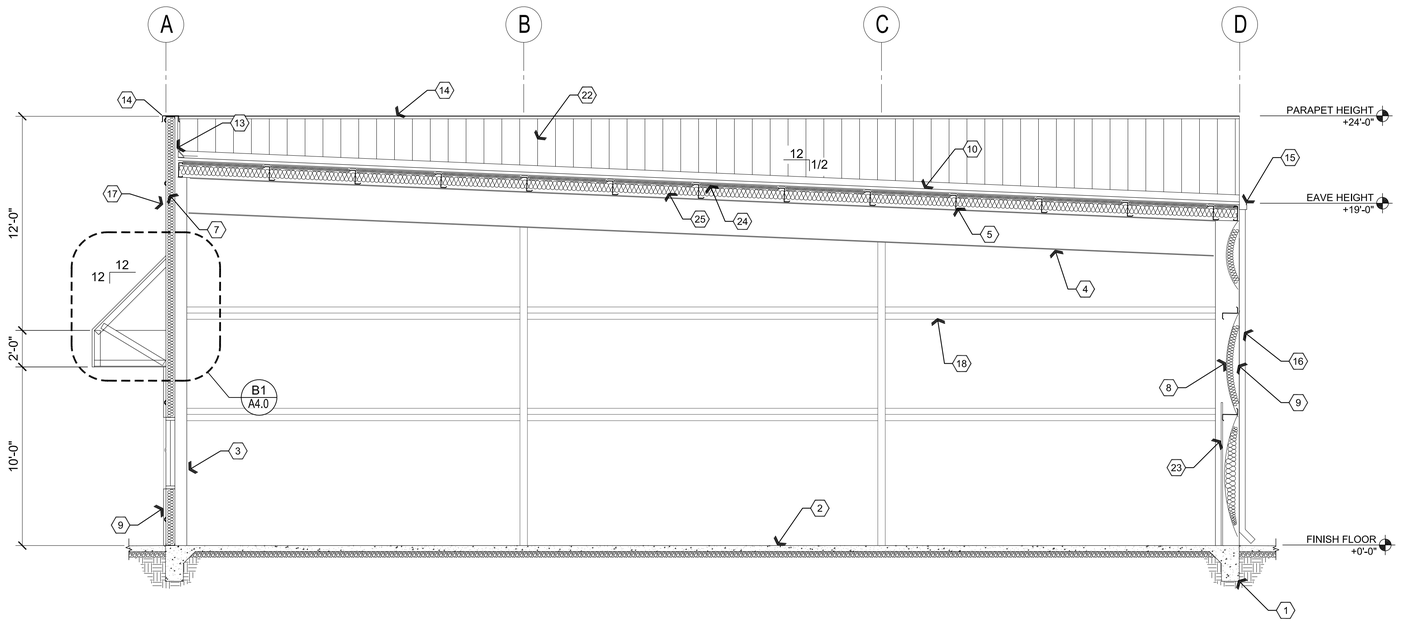
PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D

1

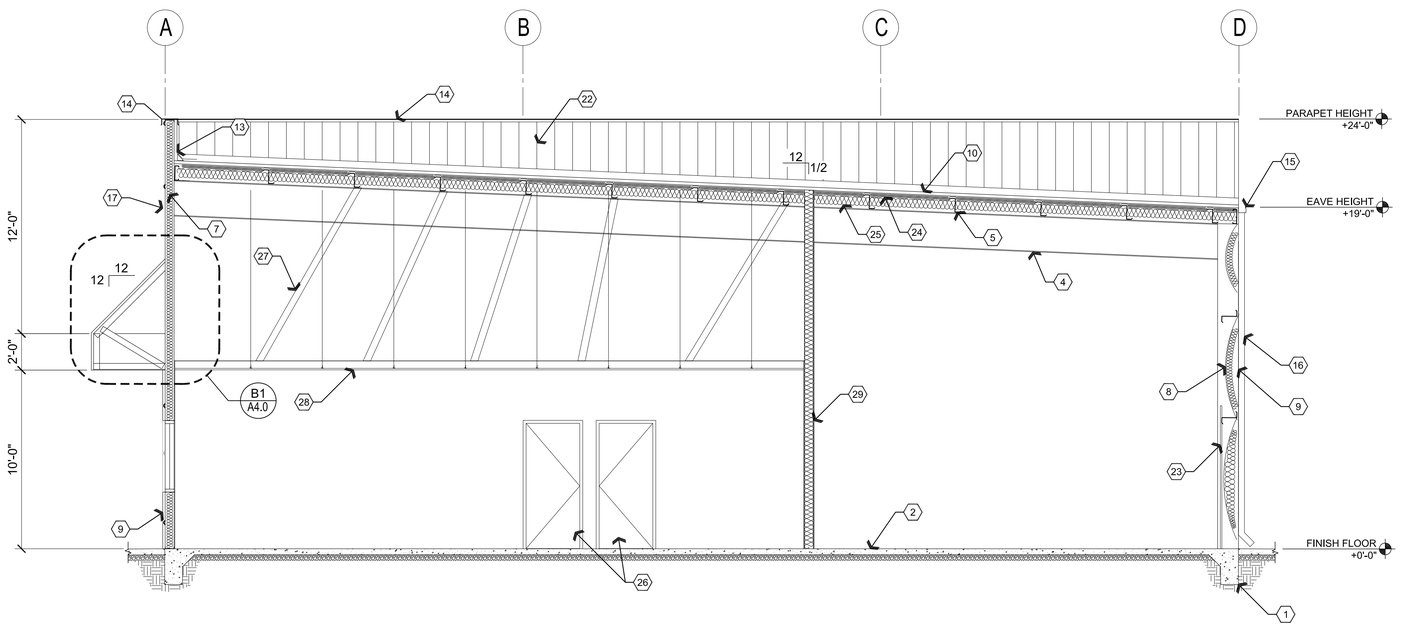
DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: April 27th, 2021
JOB NO.: 759
SHEET

A3.0



A2 Building Section

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



A1 Building Section

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

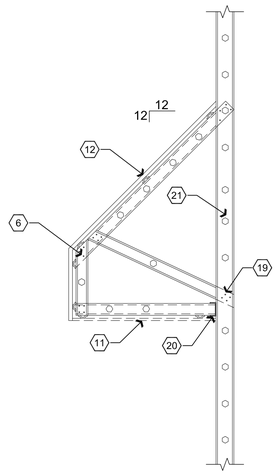
Descriptive Keynotes

1. PROVIDE CONCRETE FOOTING. REFER TO STRUCTURAL PLANS.
2. PROVIDE CONCRETE SLAB, 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 STRUCTURAL FRAMING FOR AWNING SYSTEM. REFER TO STRUCTURAL PLANS.
7. PROVIDE R-19 UNFACED BATT INSULATION.
8. PROVIDE R-11 VINYL FACED BLANKET INSULATION.
9. EXTERIOR WALL, REFER TO WALL TYPES PLAN FOR TYPE OF CONSTRUCTION.
10. PROVIDE 24 GAUGE GALVALUME STANDING SEAM SHEET METAL ROOF PANELS.
11. PROVIDE ARTISAN SERIES PANELS AT METAL SOFFIT SYSTEM, REFER TO MATERIALS SCHEDULE. M-9
12. PROVIDE METAL ROOF PANEL AT METAL AWNING SYSTEM, REFER TO MATERIALS SCHEDULE. M-3
13. PROVIDE SHEET METAL WALL TO ROOF FLASHING.
14. PROVIDE SHEET METAL PARAPET CAP, REFER TO MATERIALS SCHEDULE. M-6
15. PROVIDE SHEET METAL GUTTER, REFER TO MATERIALS SCHEDULE. M-5
16. PROVIDE SHEET METAL DOWNSPOUT, REFER TO MATERIALS SCHEDULE. M-4
17. PROVIDE 26 GAUGE "PBA" METAL BUILDING SIDE PANEL, REFER TO MATERIALS SCHEDULE. M-1
18. PROVIDE STEEL GIRT, TYPICAL. REFER TO STRUCTURAL PLANS.
19. CUT FLANGES AND PLACE BEHIND VERTICAL.
20. CONTINUOUS LIGHT GAUGE STEEL TRACK, REFER TO STRUCTURAL PLANS.
21. STEEL STUD WALL. REFER TO WALL TYPES PLAN.
22. PROVIDE PBR SHEET METAL LINER PANEL ON INSIDE OF PARAPET.
23. PROVIDE 8'-0" TALL PBR SHEET METAL LINER PANEL, REFER TO MATERIALS SCHEDULE. M-8
24. PROVIDE R-13 BLANKET INSULATION OVER PURLINS.
25. PROVIDE R-25 VINYL FACED INSULATION WIRED BETWEEN PURLINS.
26. PROVIDE DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
27. PROVIDE 2x LATERAL SUPPORT AT TOP OF WALL PARTITION @ 6'-0" O.C. MAXIMUM.
28. PROVIDE SUSPENDED CEILING. REFER TO REFLECTED CEILING PLAN AND MATERIALS SCHEDULE. ACT-1
29. INTERIOR WALL, REFER TO REFERENCE FLOOR PLAN / WALL TYPES.

Air Barrier

NOTE:
PROVIDE AN AIR BARRIER PER THE 2012 IECC SECTION C402.4.1

1. AIR LEAKAGE - THE CODE ALLOWS THE USE OF AIRFLOW RETARDERS (HOUSE WRAPS) OR OTHER SOLID MATERIALS AS ACCEPTABLE METHODS TO MEET THIS REQUIREMENT. TO BE EFFECTIVE, THE BUILDING THERMAL SEAL MUST BE:
   - IMPERMEABLE TO AIR FLOW.
   - CONTINUOUS OVER THE ENTIRE BUILDING ENVELOPE.
   - ABLE TO WITHSTAND THE FORCES THAT MAY ACT ON IT DURING AND AFTER CONSTRUCTION.
   - DURABLE OVER THE EXPECTED LIFETIME OF THE BUILDING.
   - ALL SEAMS AND EDGES MUST BE SEALED/TAPED PER MANUFACTURER'S SPECIFICATIONS.
2. BUILDING THERMAL ENVELOPE - THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION. THE FOLLOWING SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL, SUITABLE FILM OR SOLID MATERIAL:
   - ALL JOINTS, SEAMS AND PENETRATIONS.
   - SITE BUILT WINDOWS, DOORS AND SKYLIGHTS.
   - OPENINGS BETWEEN WINDOW AND DOOR ASSEMBLIES AND THEIR RESPECTIVE JAMBS AND FRAMING.
   - UTILITY PENETRATIONS.
   - DROPPED CEILINGS OR CHASES ADJACENT TO THE THERMAL ENVELOPE.
   - KNEE WALLS.
   - WALLS AND CEILINGS SEPARATING A GARAGE FROM CONDITIONED SPACES.
   - BEHIND TUBS AND SHOWERS ON EXTERIOR WALLS.
   - COMMON WALLS BETWEEN DWELLING UNITS.
   - OTHER SOURCES OF INFILTRATION.
3. FENESTRATION AIR LEAKAGE - WINDOW, SKYLIGHT AND SLIDING GLASS DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.3 CFM PER SQUARE FOOT, AND SWINGING DOORS NO MORE THAN 0.5 CFM. SPECIFICATION SHALL BE LISTED ON THE MANUFACTURER LABEL.



B1 Awning at Stud Wall

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

REVISIONS	BY
1 City of Prescott Comments 6/24/2021	LO

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W. ALAN KENSON
Date Signed 04/27/21
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EXPIRES: 6/30/21

W. Alan Kenson & Associates, P.C.
P 928-443-5812
F 928-443-5815
P.O. Box 11593
Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Building Sections

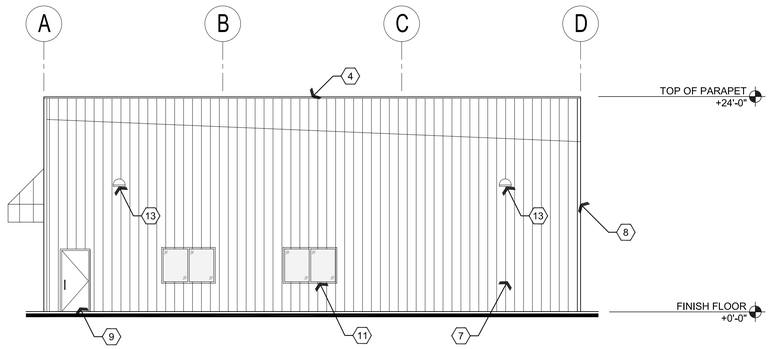
PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D

1

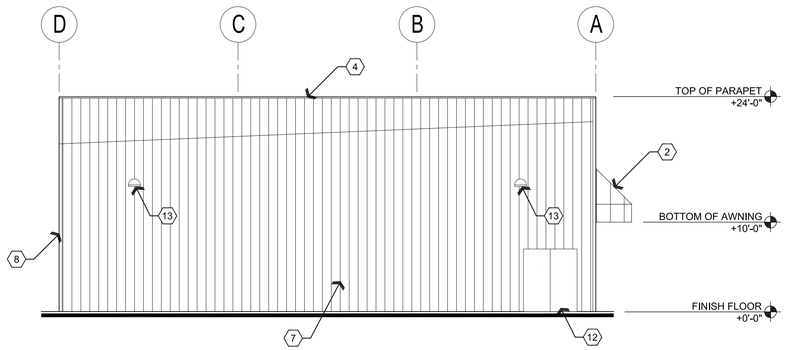
DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	April 27th, 2021
JOB NO.	759
SHEET	A4.0

Aug 20, 2021 - 8:23am



A3 Proposed Elevation

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

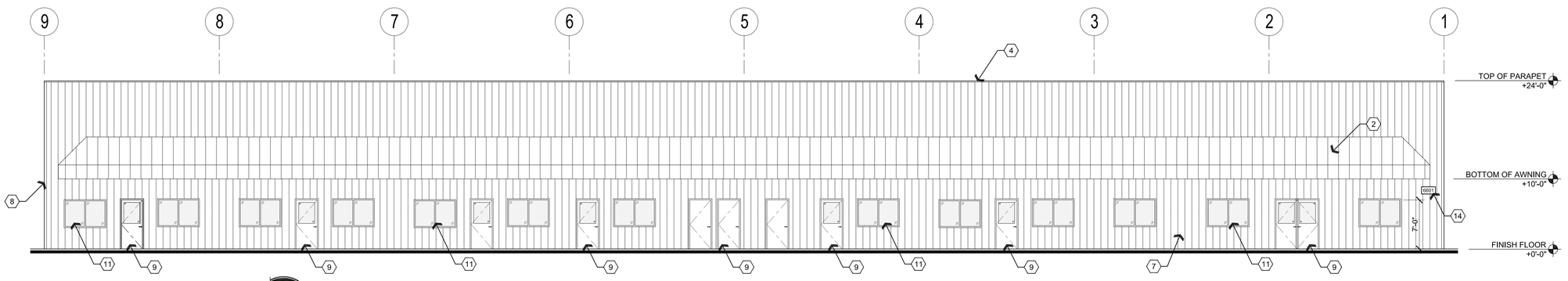


B3 Proposed Elevation

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

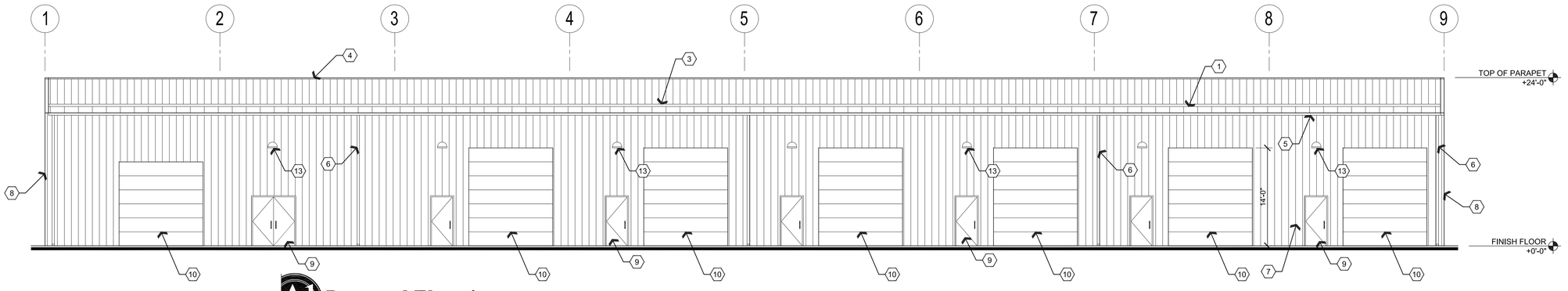
Descriptive Keynotes

1. PROVIDE 24 GAUGE GALVALUME STANDING SEAM SHEET METAL ROOF PANELS, REFER TO MATERIALS SCHEDULE. M-2
2. PROVIDE 24 GAUGE SIGNATURE 200 LOKSEAM 1'-6" METAL ROOF PANEL AT METAL AWNING SYSTEM, REFER TO MATERIALS SCHEDULE. M-3
3. PROVIDE SHEET METAL WALL TO ROOF FLASHING.
4. PROVIDE SHEET METAL PARAPET CAP, REFER TO MATERIALS SCHEDULE. M-6
5. PROVIDE SHEET METAL GUTTER, REFER TO MATERIALS SCHEDULE. M-5
6. PROVIDE SHEET METAL DOWNSPOUT, REFER TO MATERIALS SCHEDULE. M-4
7. PROVIDE 26 GAUGE "PBA" METAL BUILDING SIDING PANEL, REFER TO MATERIALS SCHEDULE. M-1
8. PROVIDE METAL BUILDING TRIM, REFER TO MATERIALS SCHEDULE. M-10
9. PROVIDE DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
10. PROVIDE SECTIONAL ROLL-UP DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
11. PROVIDE WINDOW, REFER TO REFERENCE FLOOR PLAN AND WINDOW TYPES.
12. ELECTRICAL SERVICE ENTRANCE SECTION, REFER TO ELECTRICAL PLANS.
13. EXTERIOR LIGHTING, REFER TO ELECTRICAL PLANS.
14. PROVIDE 6" ADDRESS NUMBERS WITH A CONTRASTING BACKGROUND, TO BE CLEARLY VISIBLE FROM THE STREET.



A2 Proposed Elevation

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



A1 Proposed Elevation

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

Aug 20, 2021 - 8:23am

REVISIONS	BY
1 City of Prescott Comments 6/24/2021	LO

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W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Exterior Elevations

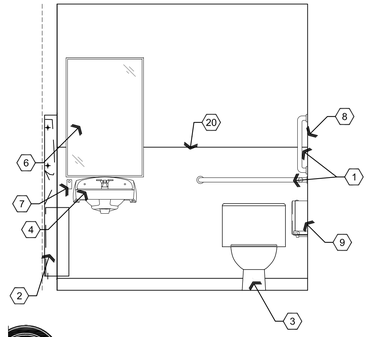
PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D

1

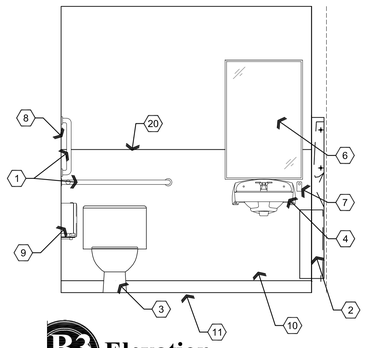
DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: April 27th, 2021
JOB NO.: 759
SHEET:

A5.0



A3 Elevation

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



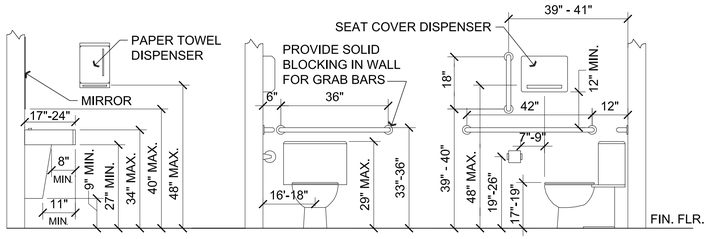
B3 Elevation

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

Toilet Accessory Schedule

##-#

CODE	FIXTURE	DESCRIPTION	MANUFACTURER	MODEL	COLOR
TA-1	HAND SOAP DISPENSER	COUNTER MOUNTED	BOBRICK	B8221	BRIGHT POLISHED
TA-2	PAPER TOWEL DISPENSER	RECESSED W/ TRASH	BOBRICK	B-3944	STAINLESS STEEL
TA-3	GRAB BARS 42", 36", 18"	1 1/4" DIAMETER	BOBRICK	B-5806	STAINLESS STEEL
TA-4	TOILET SEAT COVER DISPENSER	HALF FOLD	BOBRICK	B-221	STAINLESS STEEL
TA-5	TOILET PAPER DISPENSER (SINGLE USER RR)	SINGLE 10" JUMBO	BOBRICK	B-2890	STAINLESS STEEL

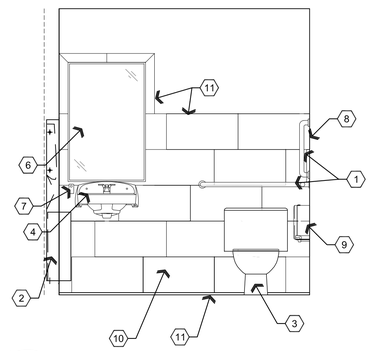


C3 Typical Fixture Mounting Heights

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

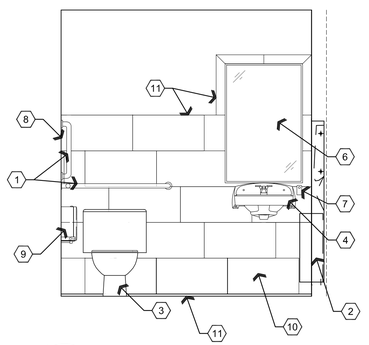
Descriptive Keynotes

1. PROVIDE 1-1/2" DIAMETER GRAB BARS PER A.D.A. REQUIREMENTS, 42" LONG AT SIDE OF WATER CLOSET / 36" LONG AT REAR OF WATER CLOSET / 18" VERTICAL GRAB BAR, PROVIDE SOLID BLOCKING, REFER TO TOILET ACCESSORY SCHEDULE. TA-3
2. PROVIDE PAPER TOWEL DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-2
3. PROVIDE FLOOR MOUNTED WATER CLOSET, REFER TO PLUMBING DRAWINGS.
4. PROVIDE WALL HUNG LAVATORY, INSULATE PIPES, REFER TO PLUMBING DRAWINGS.
5. PROVIDE ACCESSIBILITY SIGNAGE MOUNTED PER A.D.A. REQUIREMENTS.
6. PROVIDE 1/4" PLATE MIRROR.
7. PROVIDE SURFACE MOUNTED HAND SOAP DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-1
8. PROVIDE SURFACE MOUNTED TOILET SEAT COVER DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-4
9. PROVIDE TOILET PAPER DISPENSER, REFER TO TOILET ACCESSORY SCHEDULE. TA-5
10. PROVIDE CERAMIC TILE, REFER TO MATERIALS SCHEDULE. CT-2
11. PROVIDE SCHLUTER TRIM.
12. PROVIDE A.D.A ACCESSIBLE ELECTRIC DRINKING FOUNTAIN, MAXIMUM HEIGHT OF SPOUT OUTLET TO BE 36" FROM FLOOR. REFER TO PLUMBING PLAN.
13. PROVIDE PLASTIC LAMINATE LOWER CABINETS. PL-1
14. PROVIDE SOLID SURFACE COUNTERTOP WITH 4" BACKSPLASH. SS-1
15. PROVIDE PLASTIC LAMINATE UPPER CABINET. PL-1
16. REFRIGERATOR BY OWNER.
17. MICROWAVE BY OWNER.
18. PROVIDE SINK AND FAUCET, REFER TO PLUMBING PLANS.
19. MOP SINK, REFER TO PLUMBING PLANS.
20. FRP WAINSCOT, 4' HIGH. FRP-1



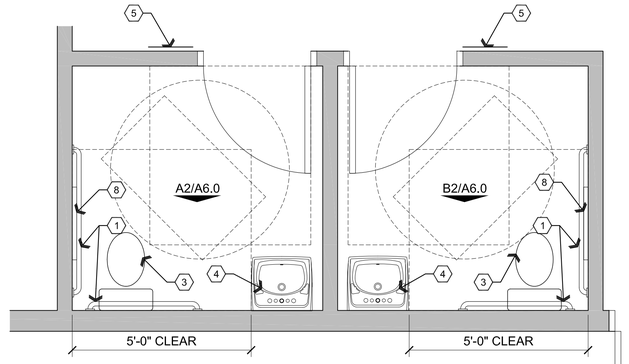
A2 Elevation

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



B2 Elevation

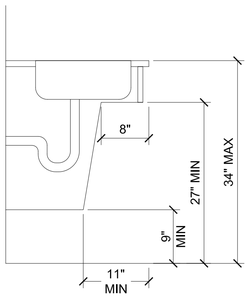
Scale: 1/2"=1'-0"



C2 Enlarged Plan

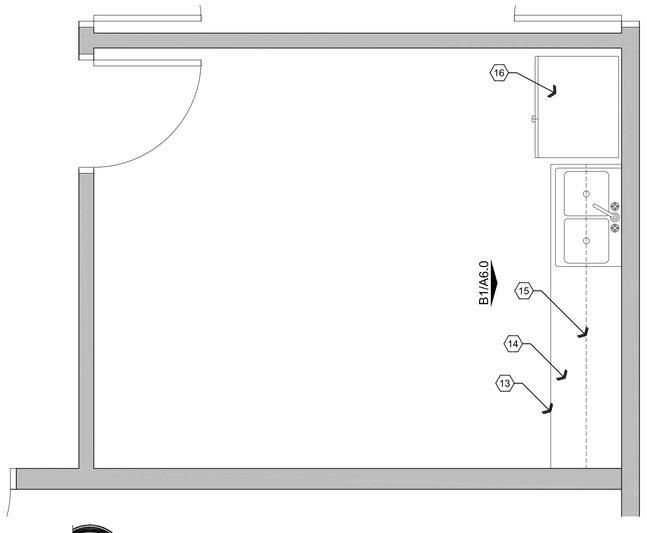
Scale: 1/2"=1'-0"

Plan North



D2 ADA Sink Cabinet Detail

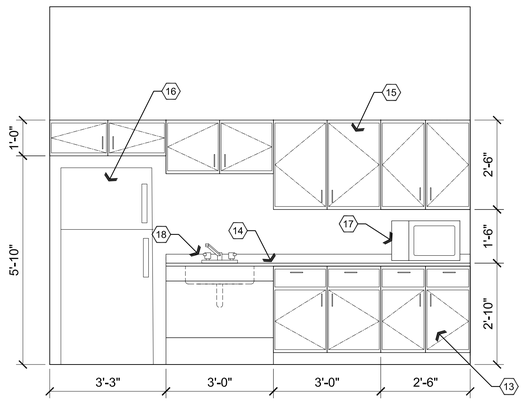
Scale: 1"=1'-0"



A1 Enlarged Plan

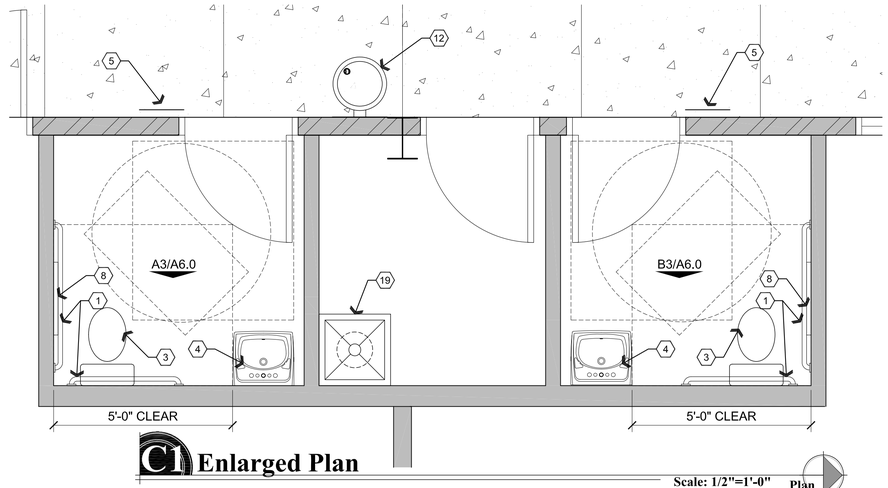
Scale: 1/2"=1'-0"

Plan North



B1 Elevation

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



C1 Enlarged Plan

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

Plan North

Aug 20, 2021 - 8:24am

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1 City of Prescott Comments 6/24/2021	LO

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P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Enlarged Plans and Interior Elevations

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D

1

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	April 27th, 2021
JOB NO.	759
SHEET	A6.0

A1 Materials schedule XX-

CODE	MATERIAL	LOCATION	MANUFACTURER	SPECIFICATION
ACT-1	ACOUSTICAL CEILING TILE	REFER TO REFLECTED CEILING PLAN	ARMSTRONG	ASTM C 36; 2'x2' #770 NON DIRECTIONAL SQUARE LAY-IN TILE, WHITE SUSPENDED GRIDS; 15/16" METAL WHITE
CPT-1	24"x24" CARPET TILE	OFFICES	SHAW	COLLECTION: KINDRED STYLE: MEMORY TILE 5T263 COLOR: NESTLE 48760
CT-1	PORCELAIN TILE	OFFICE RESTROOMS, BREAK ROOM FLOORS	DALTILE	EMERSON WOOD 8x48 COLOR: BALSAM FIR EP04
CT-2	PORCELAIN TILE	RESTROOM WALLS	DALTILE	ARCHAIA COLOR: PROVINCE GREY AR42
FRP-1	FIBERGLASS REINFORCED PLASTIC	JANITOR & EXTERIOR ENTRANCE RESTROOMS		GRAY, 4' TALL WAINSCOT
M-1	METAL SIDING PANEL	EXTERIOR	MBCI	PBA PANEL 26 GAUGE, PRE PAINTED, KOKO BROWN (SIGNATURE 200)
M-2	METAL ROOF PANEL	MAIN ROOF	MBCI	24" ULTRADEK, 24 GAUGE, STANDING SEAM, GALVALUME
M-3	METAL ROOF PANEL	AWNING ROOF	MBCI	26 GAUGE LOKSEAM 12" STANDING SEAM, SLATE GRAY (SIGNATURE 300)
M-4	SHEET METAL DOWNSPOUT	EAST EXTERIOR	MBCI	3-1/2" x4" BOX DOWNSPOUT, 26 GAUGE, PRE-PAINTED, KOKO BROWN (SIGNATURE 200)
M-5	SHEET METAL GUTTER	EAST EXTERIOR	MBCI	3"x5" BOX GUTTER, 26 GAUGE, PRE-PAINTED KOKO BROWN (SIGNATURE 200)
M-6	METAL PARAPET CAP	NORTH, SOUTH AND WEST EXTERIOR	MBCI	26 GAUGE, PRE-PAINTED, KOKO BROWN (SIGNATURE 200)
M-7	EXTERIOR METAL PANEL LINER	INTERIOR OF PARAPETS	MBCI	PBR PANEL 26 GAUGE PRE-PAINTED, KOKO BROWN (SIGNATURE 200)
M-8	INTERIOR METAL LINER PANEL	INTERIOR AS SHOWN ON PLAN UP TO 8'-0" A.F.F.	MBCI	PBR PANEL 26 GAUGE, PRE-PAINTED, POLAR WHITE (SIGNATURE 200)
M-9	METAL SOFFIT SYSTEM	AWNING SOFFIT	MBCI	ARTISAN SERIES 12" WIDE 26 GAUGE SLATE GRAY(SIGNATURE 300)
M-10	METAL TRIM	EXTERIOR	MBCI	26 GAUGE PRE-PAINTED KOKO BROWN (SIGNATURE 200)
OD-1	OVERHEAD DOOR	WAREHOUSE BAYS	C.H.I.	INSULATED RIBBED STEEL OVERHEAD DOOR WITH CHAIN HOIST MODEL # 3241
PL-1	PLASTIC LAMINATE	BREAK ROOM CABINETS	WILSONART	CARBON MESH 4880
PT-1	PAINT	GPDW WALLS AND CEILINGS	SHERWIN WILLIAMS	PASSIVE SW7064
RB-1	RUBBER BASE	CARPETED AREAS	ROPPE	BLACK / BROWN
SS-1	SOLID SURFACE COUNTERTOP	BREAKROOM	WILSONART	ORION'S BELT 9213CM

A2 Door Schedule

NO.	ROOM NAME	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE TYPE
100A	FIRE RISER	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	A
101A	OFFICE	3'-0"x7'-0"	B	SCWD	STAIN	HM	PAINT	B
102A	OFFICE	3'-0"x7'-0"	B	SCWD	STAIN	HM	PAINT	B
103A	OFFICE	3'-0"x7'-0"	B	SCWD	STAIN	HM	PAINT	B
104A	STORAGE/WORK	3'-0"x7'-0"	B	SCWD	STAIN	HM	PAINT	G
104B	STORAGE/WORK	(2) 3'-0"x7'-0"	E	HM	PAINT	HM	PAINT	E
104C	STORAGE/WORK	12'-0"x14'-0"	F	STEEL	PAINT	STEEL	PAINT	-
105A	BREAK RM	3'-0"x7'-0"	B	SCWD	STAIN	HM	PAINT	G
106A	RESTROOM	3'-0"x7'-0"	B	SCWD	STAIN	HM	PAINT	F
107A	RESTROOM	3'-0"x7'-0"	B	SCWD	STAIN	HM	PAINT	F
108A	LOBBY	(2) 3'-0"x7'-0"	C	HM / GLASS	PAINT	HM	PAINT	C
109A	OFFICE	3'-0"x7'-0"	B	SCWD	STAIN	HM	PAINT	B
109B	OFFICE	3'-0"x7'-0"	B	SCWD	STAIN	HM	PAINT	B
110A	WAREHOUSE	3'-0"x7'-0"	D	HM / GLASS	PAINT	HM	PAINT	D
110B	WAREHOUSE	3'-0"x7'-0"	D	HM / GLASS	PAINT	HM	PAINT	D
110C	WAREHOUSE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	D
110D	WAREHOUSE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	D
110E	WAREHOUSE	12'-0"x14'-0"	F	STEEL	PAINT	STEEL	PAINT	-
110F	WAREHOUSE	12'-0"x14'-0"	F	STEEL	PAINT	STEEL	PAINT	-
111A	RESTROOM	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	H
112A	JANITOR	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	A
113A	RESTROOM	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	H
114A	WAREHOUSE	3'-0"x7'-0"	D	HM / GLASS	PAINT	HM	PAINT	D
114B	WAREHOUSE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	D
114C	WAREHOUSE	12'-0"x14'-0"	F	STEEL	PAINT	STEEL	PAINT	-
115A	WAREHOUSE	3'-0"x7'-0"	D	HM / GLASS	PAINT	HM	PAINT	D
115B	WAREHOUSE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	D
115C	WAREHOUSE	12'-0"x14'-0"	F	STEEL	PAINT	STEEL	PAINT	-
116A	WAREHOUSE	3'-0"x7'-0"	D	HM / GLASS	PAINT	HM	PAINT	D
116B	WAREHOUSE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	D
116C	WAREHOUSE	12'-0"x14'-0"	F	STEEL	PAINT	STEEL	PAINT	-
117A	WAREHOUSE	3'-0"x7'-0"	D	HM / GLASS	PAINT	HM	PAINT	D
117B	WAREHOUSE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	D
117C	WAREHOUSE	12'-0"x14'-0"	F	STEEL	PAINT	STEEL	PAINT	-

NOTES:

1. ALL EXIT DOORS & HARDWARE SHALL COMPLY WITH THE 2018 I.B.C. AND I.F.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.

A3 Door Hardware Schedule

HARDWARE SET A:
STOREROOM

HARDWARE SET B:
ENTRANCE / OFFICE

HARDWARE SET C:
ENTRANCE W/ REMOVABLE MULLION.

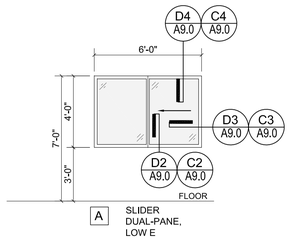
HARDWARE SET D:
ENTRANCE

HARDWARE SET E:
ENTRANCE / FLUSH BOLT

HARDWARE SET F:
PRIVACY

HARDWARE SET G:
PASSAGE

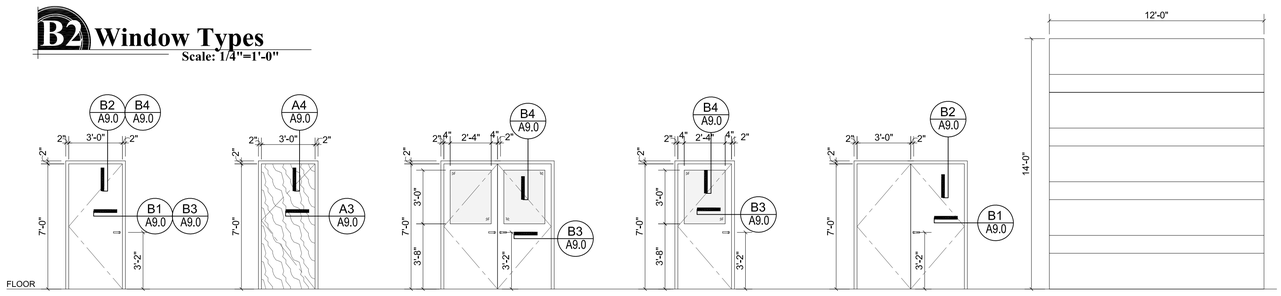
HARDWARE SET H:
ENTRANCE / PRIVACY



A SLIDER DUAL-PANE, LOW E

B2 Window Types

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



A 18 GAUGE HOLLOW METAL DOOR WITH 16 GAUGE HOLLOW METAL FRAME

B VT INDUSTRIES 5502H SOLID CORE VENEER FINISH PROFILE: NATURAL BIRCH CLEAR CL-18 IN 16 GAUGE HOLLOW METAL FRAME

C 18 GAUGE HOLLOW METAL DOOR WITH 16 GAUGE HOLLOW METAL FRAME WITH CLEAR SAFETY GLASS

D 18 GAUGE HOLLOW METAL DOOR WITH 16 GAUGE HOLLOW METAL FRAME WITH CLEAR SAFETY GLASS

E 18 GAUGE HOLLOW METAL DOOR WITH 16 GAUGE HOLLOW METAL FRAME

F INSULATED CHAIN HOISTED OVERHEAD DOOR

B1 Door Types

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

Aug 20, 2021 - 8:19am

REVISIONS | BY
1 City of Prescott Comments 6/24/2021 | LO

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REGISTERED ARCHITECT
CERTIFICATE NO.
25646
W. ALAN KENSON
Date Signed 04/27/21
ARIZONA
EXPIRES: 6/30/21

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Door Schedule and Door & Window Types

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D (1)

DRAWN BY: L.O.
CHECKED BY: W.A.K.
DATE: April 27th, 2021
JOB NO.: 759
SHEET: A7.0

Room Finish Schedule

NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	HEIGHT
100	FIRE RISER	F1	B1	W1/W2	C1	VARIES
101	OFFICE	F2	B2	W2	C2	10'-0"
102	OFFICE	F2	B2	W2	C2	10'-0"
103	OFFICE	F2	B2	W2	C2	10'-0"
104	STORAGE/WORK	F1	B1/B2	W1/W2	C1	VARIES
105	BREAKROOM	F3	B3	W2	C2	10'-0"
106	RESTROOM	F3	B3	W2/W4	C3	8'-0"
107	RESTROOM	F3	B3	W2/W4	C3	8'-0"
108	LOBBY/WORK AREA	F3	B3	W2	C2	10'-0"
109	OFFICE	F2	B2	W2	C2	10'-0"
110	WAREHOUSE	F1	B1	W1/W2	C1	VARIES
111	RESTROOM	F1	B3	W2/W3	C3	8'-0"
112	JANITOR	F1	B1	W2/W3	C3	8'-0"
113	RESTROOM	F1	B3	W2/W3	C3	8'-0"
114	WAREHOUSE	F1	B1/B2	W1/W2	C1	VARIES
115	WAREHOUSE	F1	B1/B2	W1/W2	C1	VARIES
116	WAREHOUSE	F1	B1/B2	W1/W2	C1	VARIES
117	WAREHOUSE	F1	B1/B2	W1/W2	C1	VARIES

FLOOR:
F1 CONCRETE
F2 CARPET [CPT-1]
F3 PORCELAIN TILE [CT-1]

BASE:
B1 NONE
B2 RUBBER BASE [RB-1]
B3 PORCELAIN TILE [CT-1] [CT-2]

WALLS:
W1 OPEN TO STRUCTURE / METAL LINER PANELS
W2 PAINTED GPDW [PT-1]
W3 FRP WAINSCOT [FRP-1]
W4 CERAMIC TILE [CT-2]

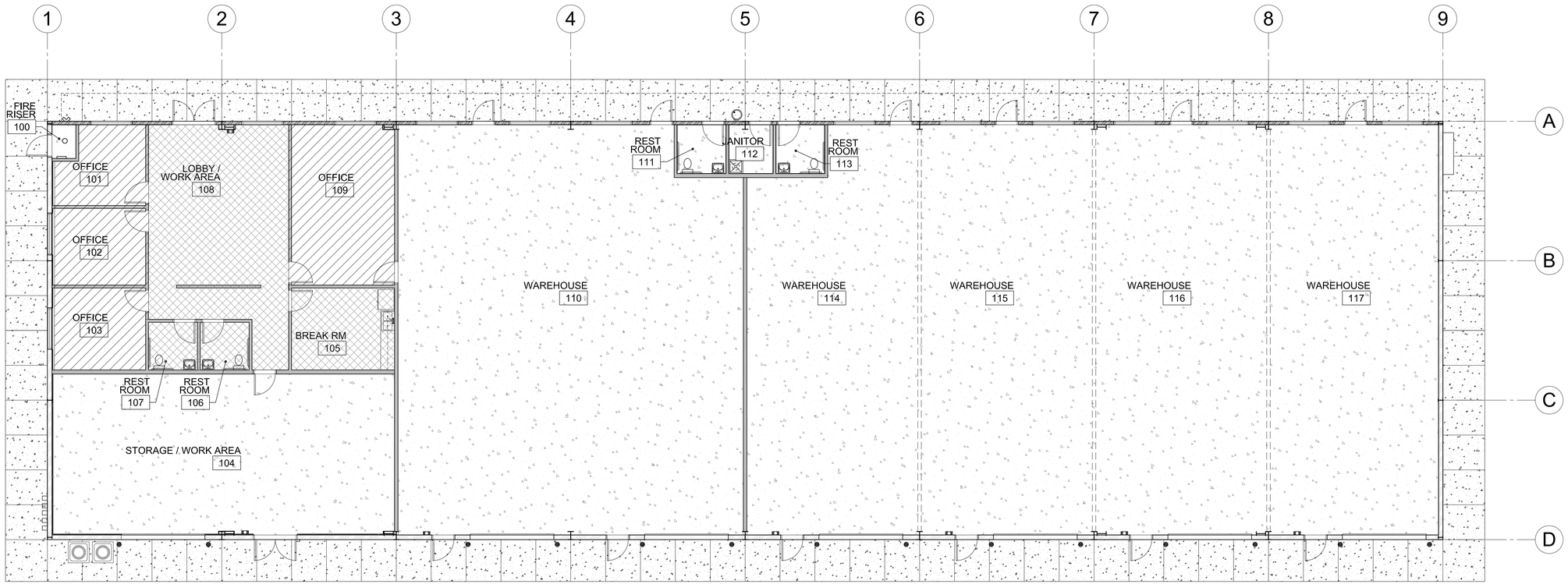
CEILING:
C1 OPEN TO STRUCTURE
C2 2x2 SUSPENDED ACOUSTICAL PANELS [ACT-1]
C3 PAINTED GPDW [PT-1]

Legend

PORCELAIN TILE [PT-1]

CONCRETE

CARPET SQUARES [CPT-1]



A1 Room Finish Plan

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

Plan North

Aug 20, 2021 - 8:24am

REVISIONS	BY
1 City of Prescott Comments 6/24/2021	LO

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REGISTERED ARCHITECT
REGISTRATE NO.
25646
W. ALAN KENSON
Date Signed 04/27/21
ARIZONA
EXPIRES: 6/30/21

W. Alan Kenson & Associates, P.C.
P 928-443-5812
F 928-443-5815
P.O. Box 11593
Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

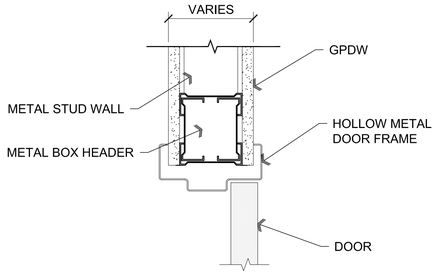
DRAWING: Room Finish Plan

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D

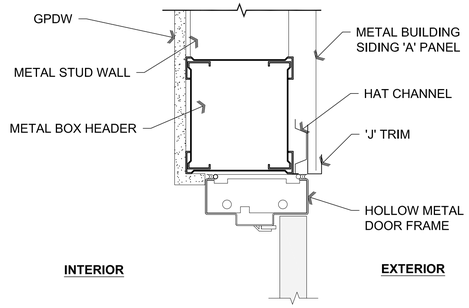
1

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	April 27th, 2021
JOB NO.	759
SHEET	A8.0



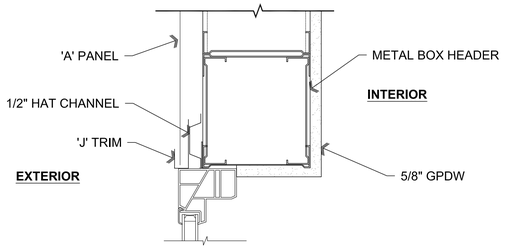
A4 Door Head

SCALE: 3" = 1'-0"



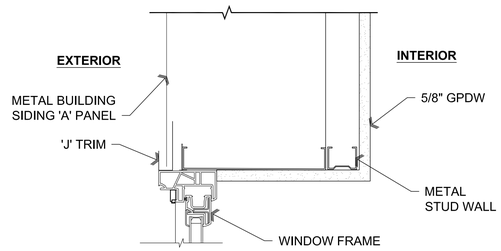
B4 Door Head

SCALE: 3" = 1'-0"



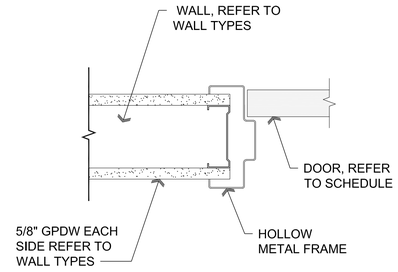
C4 Window Head

SCALE: 3" = 1'-0"



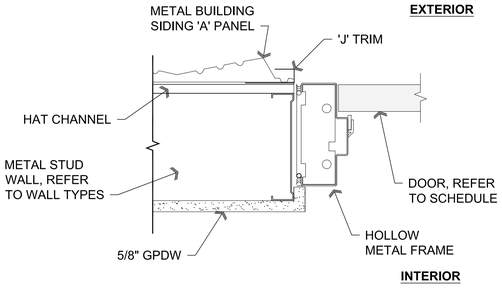
D4 Window Head

SCALE: 3" = 1'-0"



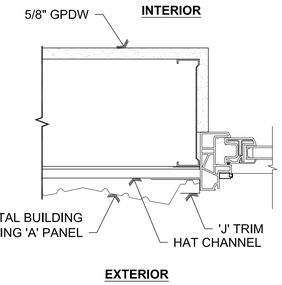
A3 Door Jamb

SCALE: 3" = 1'-0"



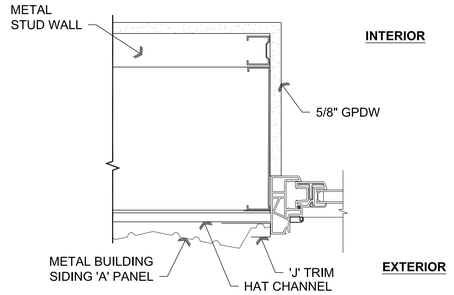
B3 Door Jamb

SCALE: 3" = 1'-0"



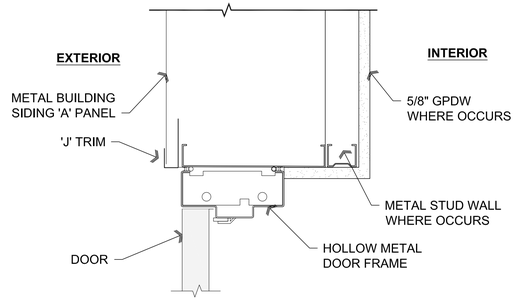
C3 Window Jamb

SCALE: 3" = 1'-0"



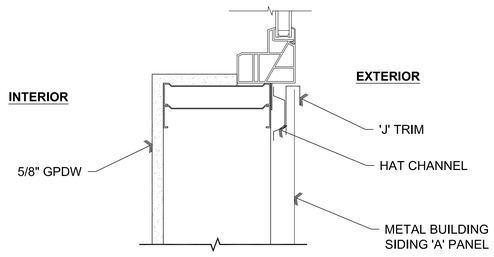
D3 Window Jamb

SCALE: 3" = 1'-0"



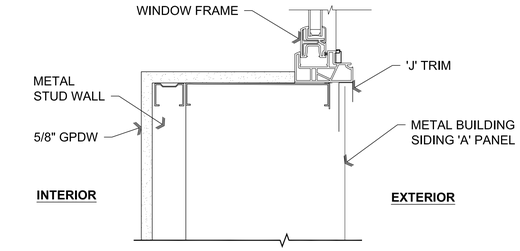
B2 Door Head

SCALE: 3" = 1'-0"



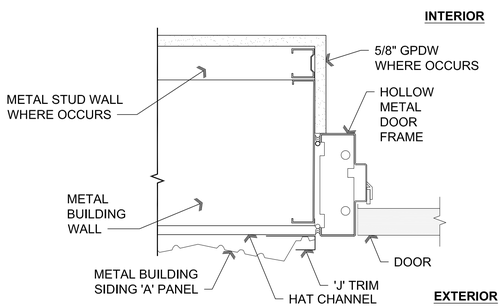
C2 Window Sill

SCALE: 3" = 1'-0"



D2 Window Sill

SCALE: 3" = 1'-0"



B1 Door Jamb

SCALE: 3" = 1'-0"

Aug 20, 2021 - 8:24am

1	REVISIONS	BY
	City of Prescott Comments 6/24/2021	LO

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P 928-443-5812
F 928-443-5815
P.O. Box 11593
Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Details

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054D

DRAWN BY	L.O.
CHECKED BY	W.A.K.
DATE	April 27th, 2021
JOB NO.	759
SHEET	A9.0

GENERAL STRUCTURAL NOTES

(APPLY UNLESS NOTED OTHERWISE ON PLANS/DETAILS)

GENERAL REQUIREMENTS:

1. 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.
2. 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, AT NO ADDITIONAL COST TO OWNER.
3. 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.
4. 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.
5. 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.
6. 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 STRUCTURAL 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	15 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 = 0.532, Sm1 = 0.251
SPECTRAL RESPONSE COEFFICIENTS	Sds = 0.355, Sd1 = 0.167
HORIZONTAL SHEAR TRANSFER ELEMENTS:	
STEEL X-BRACE (S)	R = 3.25 Cs=0.109
VERTICAL SHEAR TRANSFER ELEMENTS:	
INTERMEDIATE STEEL MOMENT FRAMES(S)	R = 4.5 Cs=0.079
STEEL X-BRACE (S)	R = 3.25 Cs=0.109

4. WIND DESIGN PARAMETERS (STRENGTH):

ULTIMATE WIND SPEED	101 MPH (3 SECOND GUST)
WIND EXPOSURE	C
IMPORTANCE FACTOR	Iw = 1.00
INTERNAL PRESSURE COEFFICIENT	+/-0.18
COMPONENT AND CLADDING PRESSURE	COMPONENT AND CLADDING PRESSURE VARIES BY COMPONENT AREA AND LOCATION SEE STRUCTURAL CALCULATIONS

FOUNDATION NOTES:

1. FOUNDATIONS DESIGNED IN CONFORMANCE WITH RECOMMENDATIONS BY: **ENGINEERING TESTING CONSULTANTS, INC. REPORT NO. 6270 DATED FEBRUARY 5, 2007**
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	2000 PSF
ALLOWABLE LATERAL PASSIVE PRESSURE	400 PSF/FT
ALLOWABLE LATERAL SLIDING COEFFICIENT	0.45
LATERAL BACKFILL PRESSURE (UNRESTRAINED)	35 PSF/FT
LATERAL BACKFILL PRESSURE (RESTRAINED)	55 PSF/FT
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
18" BELOW FINISHED GRADE

4. ALL FOUNDATIONS SHALL BEAR ON UNDISTURBED NATURAL SOIL OR COMPACTED ENGINEERED FILL 18 INCHES MINIMUM BELOW FINISH GRADE PER TABLE ABOVE. 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. CONCRETE SLABS ON GRADE SHALL BE SUPPORTED ON A 14 INCH LAYER OF SELECT FILL MATERIAL ACCORDING TO THE SPECIFICATIONS OF THE SOIL REPORT. FILL MATERIAL SHOULD BE MOISTENED, BUT NOT SATURATED JUST PRIOR TO PLACING CONCRETE.

CONCRETE:

1. MINIMUM 28 DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS:

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

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

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

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

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 614.4, 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. 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.
10. 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 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 STUDS AND WOOD TO STEEL BOLTS 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.

COLD FORMED STEEL (ICBO ER 4943P):

1. MATERIALS: STANDARD COLD-FORMED STEEL JOISTS, TRACK, BRIDGING AND STRAPS SHALL CONFORM TO AISI NAS-01 WITH 2004 SUPPLEMENT (FY = 33 KSI). STEEL FOR PURLINS AND GIRTS SHALL CONFORM TO (FY = 55 KSI). STEEL SHALL BE GALVANIZED AT EXTERIOR WALLS AND FRAMING.
2. FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE(AISI).
3. ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS, BEAM BEARINGS AND JOIST BEARINGS.
4. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAGE STRUCTURAL STEEL FRAMING WORK. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM EFFECTIVE PROPERTIES PER STEEL STUD MANUFACTURERS ASSOCIATION(SSMA):

TYPE/STYLE	MEMBER	MILS(GA)	FY
3⅝"X20GA. STUD	362S162-33	33(20)	33KSI
3⅝"X20GA. TRACK	362T162-33	33(20)	33KSI
6"X18GA. STUD	600S162-43	43(18)	33KSI
6"X18GA. TRACK	600T162-43	43(18)	33KSI

GYPSUM BOARD SHEATHING:

1. ALL GYPSUM BOARD SHEATHING MATERIALS SHALL CONFORM TO ASTM C79 AND SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C1280. FOUR-FOOT WIDE PIECES OF GYPSUM SHEATHING SHALL BE APPLIED PARALLEL OR PERPENDICULAR TO THE STUDS. TWO-FOOT WIDE PIECES OF GYPSUM SHEATHING SHALL BE APPLIED PERPENDICULAR TO THE STUDS. END JOINTS OF ADJACENT COURSES OF GYPSUM BOARD SHALL BE STAGGERED.
2. FOR FIRE RATED WALLS WITH GYPSUM SHEATHING EACH SIDE, GYPSUM SHEATHING SHALL BE INSTALLED SO THAT ALL EDGES ARE SUPPORTED EXCEPT ⅝" TYPE-X GYPSUM SHEATHING SHALL BE PERMITTED TO BE INSTALLED HORIZONTALLY WITH THE HORIZONTAL JOINTS STAGGERED 24" FROM THE OPPOSITE SIDE, BUT JOINTS ARE UNSUPPORTED AND FINISHED.

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 ENGINEER
CONCRETE SLAB ON GRADE	NO	DESIGN BASED ON f'c=2500 PSI
CONCRETE FOUNDATIONS	NO	DESIGN BASED ON f'c=2500 PSI
REINFORCING STEEL FOR ALL CONCRETE / MASONRY THAT REQUIRES INSPECTION	YES	PRIOR TO PLACEMENT OF CONCRETE OR GROUT
BOLTS, ANCHORS CAST IN CONCRETE	YES	DURING PLACEMENT OF CONCRETE
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 A GEOTECHNICAL ENGINEER OR 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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S1.2	TYPICAL DETAILS	T-SERIES
S2	FOUNDATION PLAN	---
S3	ROOF FRAMING PLAN	---
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S4	FOUNDATION DETAILS	100-SERIES
S5	FRAMING DETAILS	200-SERIES

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JOB NO.: 2020-186	PROJECT MANAGER: PJC	CAD OPERATOR: MJS

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

File name: S1.dwg

REVISIONS	BY

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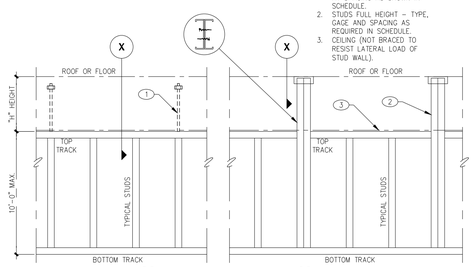
Registered Professional Engineer (Structural) 27341 RICHARD K. FROST Arizona U.S.A. 9/30/2023 EXPIRES 9/30/2023

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

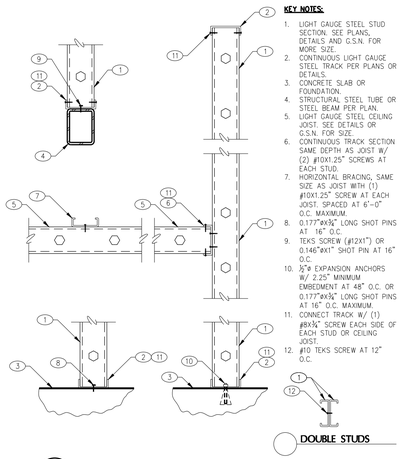
DRAWING: GENERAL STRUCTURAL NOTES

PROJECT: JSC CONTRACTING BUILDING A
6601 INter Cal Way
PRESCOTT, AZ 86301
103-50-054B & 103-50-054C

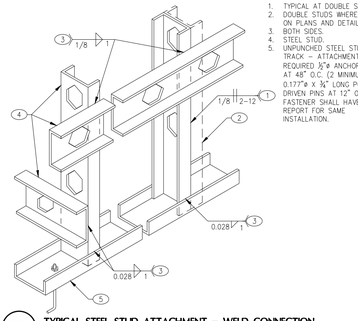
DRAWN BY	MJS
CHECKED BY	PJC
PLOT DATE	4/27/21
JOB NO.	2020-186
SHEET	S1



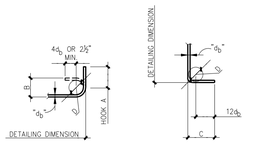
T15 ELEVATION – NON-BEARING CEILING HEIGHT INTERIOR WALL BRACING TO FLOOR/ROOF
02-LGS0703 NO SCALE



T12 TYPICAL LIGHT GAUGE STEEL CONNECTIONS
02-LGS0101 NO SCALE

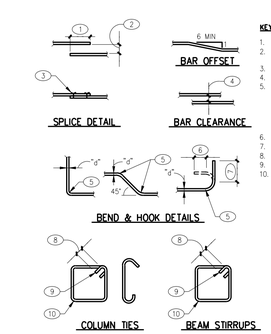


T8 TYPICAL STEEL STUD ATTACHMENT – WELD CONNECTION
02-LGS02 NO SCALE

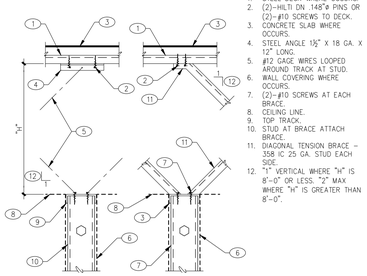


REBAR SIZE	END HOOKS ALL GRADES			
	180 HOOKS		90 HOOKS	BEND
	A	B	C	D
#3	5"	3"	6"	2.25"
#4	6"	4"	8"	3"
#5	7"	5"	10"	3.75"
#6	8"	6"	12"	4.5"
#7	10"	7"	14"	5.25"
#8	11"	8"	16"	6"

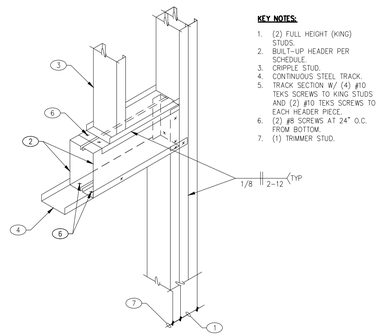
T4 TYPICAL STEEL REINFORCING HOOK SCHEDULE
02-C0102 NO SCALE



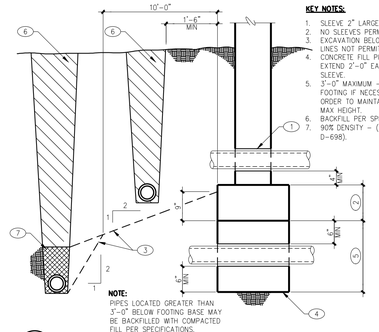
T1 TYPICAL REINFORCING DETAILS
02-C01 NO SCALE



T16 NON-BEARING TOP TRACK SUPPORT DETAIL – TOP CONNECTION
02-LGS0704 NO SCALE



T9 LIGHT GUAGE STEEL BOX-BEAM HEADER
02-LGS03.1 NO SCALE



T5 PIPES AND TRENCHES AT CONCRETE FOOTING
02-F03 NO SCALE

REBAR SIZE (METRIC)	CLASS B TENSION SPLICE LENGTHS						COMP. BARS	
	f'c=3,000 PSI		f'c=4,000 PSI		f'c=5,000 PSI		f'c= ≥ 3,000	
	REGULAR	TOP	REGULAR	TOP	REGULAR	TOP	STD. LAP	ENCLOSED W/ SPIRAL TIES
#3	24"	31"	19"	24"	17"	22"	12"	12"
#4 (13)	32"	41"	25"	32"	22"	29"	15"	12"
#5 (16)	39"	51"	31"	40"	28"	36"	19"	14"
#6 (19)	47"	61"	37"	48"	33"	43"	23"	17"
#7 (22)	69"	89"	54"	70"	49"	63"	26"	20"
#8 (25)	78"	102"	62"	80"	55"	72"	30"	23"
#9	88"	115"	70"	91"	63"	81"	34"	25"
#10	99"	129"	79"	102"	70"	91"	38"	28"
#11	110"	143"	87"	113"	78"	101"	42"	31"

NOTES:
1. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
2. UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, SLABS AND WALLS SHALL BE CLASS "B" TENSION LAP SPLICES AND LAP SPLICES IN CONCRETE COLUMNS SHALL BE 20db.

T2 CONCRETE LAP SPLICES FOR STEEL REINFORCING
02-C02 NO SCALE

GENERAL STRUCTURAL NOTES:

1. ALL COLD-FORMED STEEL FRAMING SHALL BE FABRICATED AND 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 AND METAL STUD MANUFACTURER'S ASSOCIATION – ICBO #4943.
2. STEEL FOR ALL STUDS AND FOR ALL GAGES OF TRACK, ACCESSORIES AND BRIDGING SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI.
3. ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, AND INTERSECTIONS. BRIDGING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AT MID HEIGHT OF WALL FOR WALLS LESS THAN 10'–0" HIGH, AND AT 5'–0" FOR WALLS GREATER THAN 10'–0" HIGH.

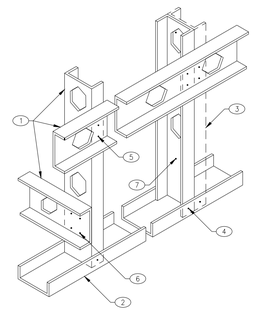
ALLOWABLE WALL HEIGHTS FOR FULL HEIGHT INTERIOR WALL PARTITIONS				BRACE SPACING WHERE OCCURS
STUD SIZE	TRACK SIZE	STUD SPACING		
		16" O.C.	24" O.C.	
600 XC 20GA	600 MT 20GA	32'–3" A.F.F.	28'–4" A.F.F.	10'–0" O.C.
358 XC 20GA	358 MT 20GA	21'–11" A.F.F.	19'–2" A.F.F.	10'–0" O.C.
358 XC 20GA	358 MT 20GA	14'–3" A.F.F.	11'–7" A.F.F.	8'–0" O.C.
250 XC 20GA	250 MT 20GA	16'–6" A.F.F.	14'–5" A.F.F.	8'–0" O.C.
250 XC 20GA	250 MT 20GA	11'–6" A.F.F.	9'–6" A.F.F.	8'–0" O.C.

VALUES BASED ON NO AXIAL LOAD, 5 PSF LATERAL LOAD, AND A DEFLECTION LIMIT OF H/120 (VERIFY WITH ARCHITECTURAL SPECIFICATIONS FOR SPECIAL REQUIREMENT). BRACING DESIGN BASED ON MAXIMUM HEIGHT (TO CEILING) OF 10'–0".

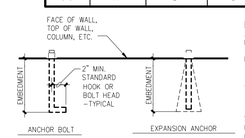
INSTALLATION OPTIONS:

1. STEEL STUDS WALLS THAT SPAN FULL HEIGHT TO UNDERSIDE OF STRUCTURE MAY BE INSTALLED UN-BRACED PER SCHEDULE ABOVE.
2. STEEL STUD WALLS PER SCHEDULE ABOVE MAT BE INSTALLED WHEN BRACED PER DETAIL S4 OR S5.
3. PLANS AND DETAILS OF OPTIONAL METHODS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
4. FOR ADDITIONAL INFORMATION, SEE DETAILS T9 THRU T16.
5. BOTTOM TRACK SHALL BE ATTACHED TO CONCRETE FLOORS USING 3/8"ø EXPANSION ANCHORS AT 48" O.C. (2 MIN. PER TRACK) WITH 4" EMBEDMENT.

T13 NON-BEARING INTERIOR STEEL STUD WALL SCHEDULE
02-LGS0701 NO SCALE



T10 TYPICAL STEEL STUD ATTACHMENT – SCREW CONNECTION
02-LGS01 NO SCALE



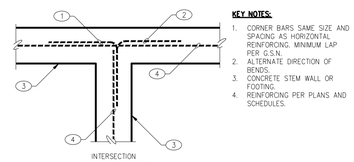
KEY NOTES:
ANCHOR OR BOLT DIAMETERS SPECIFIED IN DETAILS OR ON PLANS SHALL MEET THESE MINIMUM REQUIREMENTS FOR EMBEDMENT.

THICKNESS OF DRYPACK DOES NOT APPLY TOWARDS EMBEDMENT.

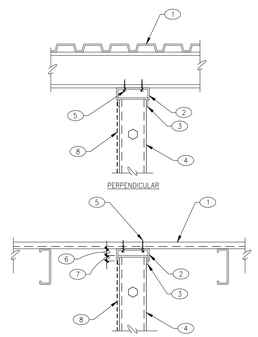
EXPANSION ANCHOR APPROVALS:
SIMPSON WEDGE-ALL (ESR-1396)
HILTI ANCHORS KWK-BOLT (ESR-1917).
POWERS POWER-STUD (ESR-2818)

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"

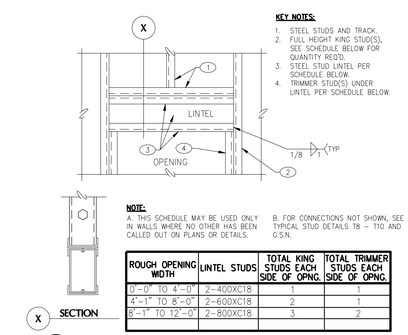
T6 TYPICAL ANCHOR BOLT, AND EXPANSION BOLT SCHEDULE
02-S0101 NO SCALE



T3 PLAN – CORNER REINFORCING IN CONCRETE FOOTINGS AND/OR CONCRETE STEM WALLS
02-F02 NO SCALE



T14 NON-BEARING STEEL STUD TOP TRACK CONNECTION
02-LGS0702 NO SCALE

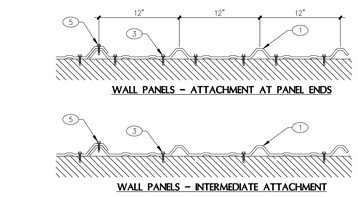


NOTE:
A. THIS SCHEDULE MAY BE USED ONLY IN WALLS WHERE NO OTHER HAS BEEN CALLED OUT ON PLANS OR DETAILS.

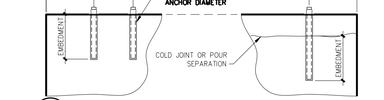
B. FOR CONNECTIONS NOT SHOWN, SEE TYPICAL STUD DETAILS T8 – T10 AND G.S.N.

ROUGH OPENING WIDTH	LINTEL STUDS	TOTAL KING STUDS EACH SIDE OF OPNG.	TOTAL TRIMMER STUDS EACH SIDE OF OPNG.
0'–0" TO 4'–0"	2-400XC18	1	1
4'–1" TO 8'–0"	2-600XC18	2	1
8'–1" TO 12'–0"	2-800XC18	3	2

T11 TYPICAL LINTELS IN STEEL STUD WALL
02-LGS0301 NO SCALE



T17 TYPICAL "PBR" PANEL ROOFING/SIDING ATTACHMENT
02-SD05 NO SCALE



T7 TYPICAL EPOXY ANCHOR INSTALLATION
02-S0102 NO SCALE

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

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

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JOB NO.: 2020-186 | PROJECT MANAGER: PJC | CAD OPERATOR: MJS

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

file name: S1.1.dwg

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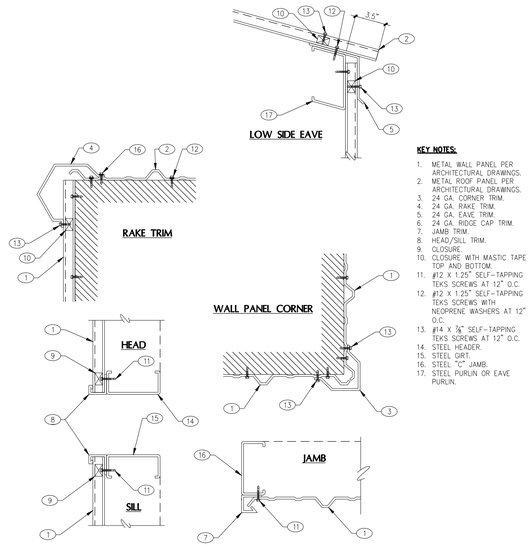
Registered Professional Engineer (Structural) CERTIFICATE NO. 27341 RICHARD K. FROST ARIZONA U.S.A. EXPIRES 9/30/2023

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: TYPICAL DETAILS T-SERIES

PROJECT: JSC CONTRACTING BUILDING A
6601 INter Cal Way
PRESCOTT, AZ 86301
103-50-054B & 103-50-054C

DRAWN BY: MJS
CHECKED BY: PJC
PLOT DATE: 4/27/21
JOB NO.: 2020-186
SHEET: S1.1



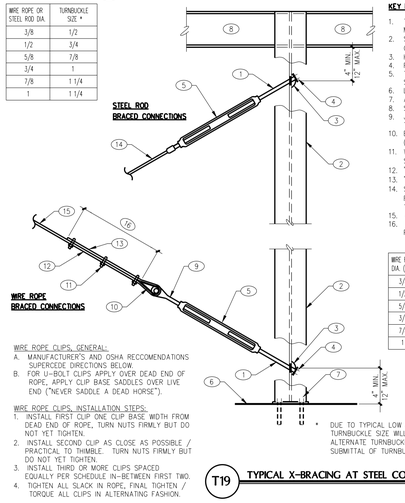
KEY NOTES:

1. METAL WALL PANEL PER ARCHITECTURAL DRAWINGS.
2. METAL ROOF PANEL 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.

T18 TYPICAL METAL ROOFING/SIDING TRIM ATTACHMENT

02-SD06

WIRE ROPE OR STEEL ROD DIA	TURNBUCKLE SIZE *
3/8	1/2
1/2	3/4
5/8	7/8
3/4	1
7/8	1 1/4
1	1 1/4



KEY NOTES:

1. THREADED STEEL ROD FITTING, SIZED TO MATCH TURNBUCKLE.
2. STEEL COLUMN (FLANGE AT BRACE CONNECTION SHOWN CUT AWAY FOR CLARITY).
3. HILLSIDE WASHER.
4. FLAT WASHER AND NUT.
5. TURNBUCKLE AT ONE END OF TENSION BRACE, SEE SCHEDULE BELOW FOR SIZE.
6. LINE OF FLOOR OR FOUNDATION AS OCCURS.
7. A.B.'s PER PLAN AT FOUNDATION.
8. STEEL BEAM OR OTHER FRAMING MEMBER.
9. JAW END TYPE FITTING, SIZED TO MATCH TURNBUCKLE.
10. EXTRA HEAVY DUTY WIRE ROPE THIMBLE (CROSBY G-414 OR SIMILAR)
11. WIRE ROPE CLIPS (CROSBY G-450, G-429 OR SIMILAR) PER SCHEDULE BELOW.
12. "LIVE" END OF WIRE ROPE.
13. "DEAD" END OF WIRE ROPE.
14. STEEL ROD BRACE w/ THREADED END, USE REDUCER COULPLING AS REQ'D TO FIT TURNBUCKLE.
15. ASTM A603 TYPE 6x19 WIRE ROPE.
16. LENGTH OF WIRE ROPE TO BE TURNED BACK PER SCHEDULE.

WIRE ROPE DIA (IN.)	CLIP SIZE (IN.)	MIN. # OF CLIPS	INCHES OF ROPE TO TURN BACK	TORQUE (FT. LBS.)
3/8	3/8	2	6 1/2	45
1/2	1/2	3	11 1/2	65
5/8	5/8	3	12	95
3/4	3/4	4	18	130
7/8	7/8	4	19	225
1	1	5	26	225

WIRE ROPE CLIPS, GENERAL:

A. MANUFACTURER'S AND OSHA RECCOMENDATIONS SUPERCEDE DIRECTIONS BELOW.
B. FOR U-BOLT CLIPS APPLY OVER DEAD END OF ROPE, APPLY CLIP BASE SADDLES OVER LIVE END ("NEVER SADDLE A DEAD HORSE").

WIRE ROPE CLIPS, INSTALLATION STEPS:

1. INSTALL FIRST CLIP ONE CLIP BASE WIDTH FROM DEAD END OF ROPE, TURN NUTS FIRMLY BUT DO NOT YET TIGHTEN.
2. INSTALL SECOND CLIP AS CLOSE AS POSSIBLE / PRACTICAL TO THIMBLE. TURN NUTS FIRMLY BUT DO NOT YET TIGHTEN.
3. INSTALL THIRD OR MORE CLIPS SPACED EQUALLY PER SCHEDULE IN-BETWEEN FIRST TWO.
4. TIGHTEN ALL SLACK IN ROPE, FINAL TIGHTEN / TORQUE ALL CLIPS IN ALTERNATING FASHION.

* DUE TO TYPICAL LOW WORKING LOAD LIMITS OF TURNBUCKLES, TURNBUCKLE SIZE WILL BE BIGGER THAN WIRE ROPE OR ROD SIZE. ALTERNATE TURNBUCKLE SIZES ACCEPTED PER DEMONSTRATION / SUBMITTAL OF TURNBUCKLES WITH ACCEPTABLE WORKING LOADS.

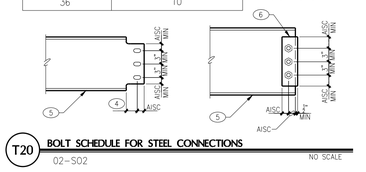
T19 TYPICAL X-BRACING AT STEEL COLUMN (W-SHAPE)

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 ½" 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.



T20 BOLT SCHEDULE FOR STEEL CONNECTIONS

02-S02

NO SCALE

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JOB NO.: 2020-186 | PROJECT MANAGER: PJC | CAD OPERATOR: MJS

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

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W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

REGISTERED ARCHITECT WAKA

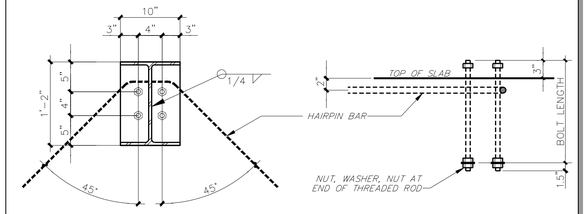
DRAWING: MORE TYPICAL DETAILS T-SERIES

PROJECT: JSC CONTRACTING BUILDING A
6601 INter Cal Way
PRESCOTT, AZ 86301
103-50-054B & 103-50-054C

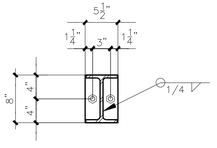
DRAWN BY: MJS
CHECKED BY: PJC
PLOT DATE: 4/27/21
JOB NO.: 2020-186
SHEET: **S1.2**

STEEL COLUMN (SC) SCHEDULE

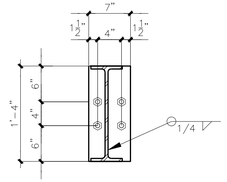
MARK	SIZE	BASE CONNECTION	BASE CONNECTION TYPE	HAIRPIN	REMARKS
SC1	W14X61	¾" THK STEEL PLATE W/ (4) ¾"ø15" ASTM F1554 ANCHOR RODS	TYPE A	#5 HAIRPIN W/ 62" LEGS	STARTS AT TOP OF SLAB
SC2	W8X18	½" THICK STEEL PLATE W/ (2) ¾"ø12" LONG ASTM F1554 ANCHOR RODS	TYPE B	NONE	STARTS AT TOP OF SLAB
SC3	W16X40	½" THICK STEEL PLATE W/ (2) ¾"ø12" LONG ASTM F1554 ANCHOR RODS	TYPE C	NONE	STARTS AT TOP OF SLAB



TYPE: A

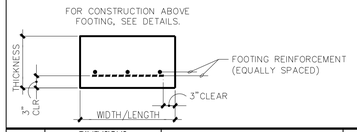


TYPE: B



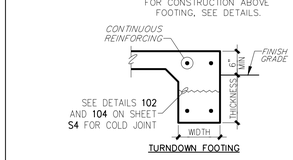
TYPE: C

CONCRETE FOOTING (F) SCHEDULE



MARK	DIMENSIONS LENGTH	DIMENSIONS WIDTH	DIMENSIONS THICKNESS	FOOTING REINFORCING	REMARKS
F1	5'-0"	5'-0"	12"	(6) #5 EACH WAY	---
F2	3'-0"	3'-0"	12"	(4) #4 EACH WAY	---

CONCRETE WALL FOOTING (WF) SCHEDULE



MARK	DIMENSIONS WIDTH	DIMENSIONS THICKNESS	FOOTING REINFORCING	FOOTING TYPE
WF1	12"	18"	(2) #3 CONTINUOUS TOP AND BOTTOM	TURNDOWN

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.

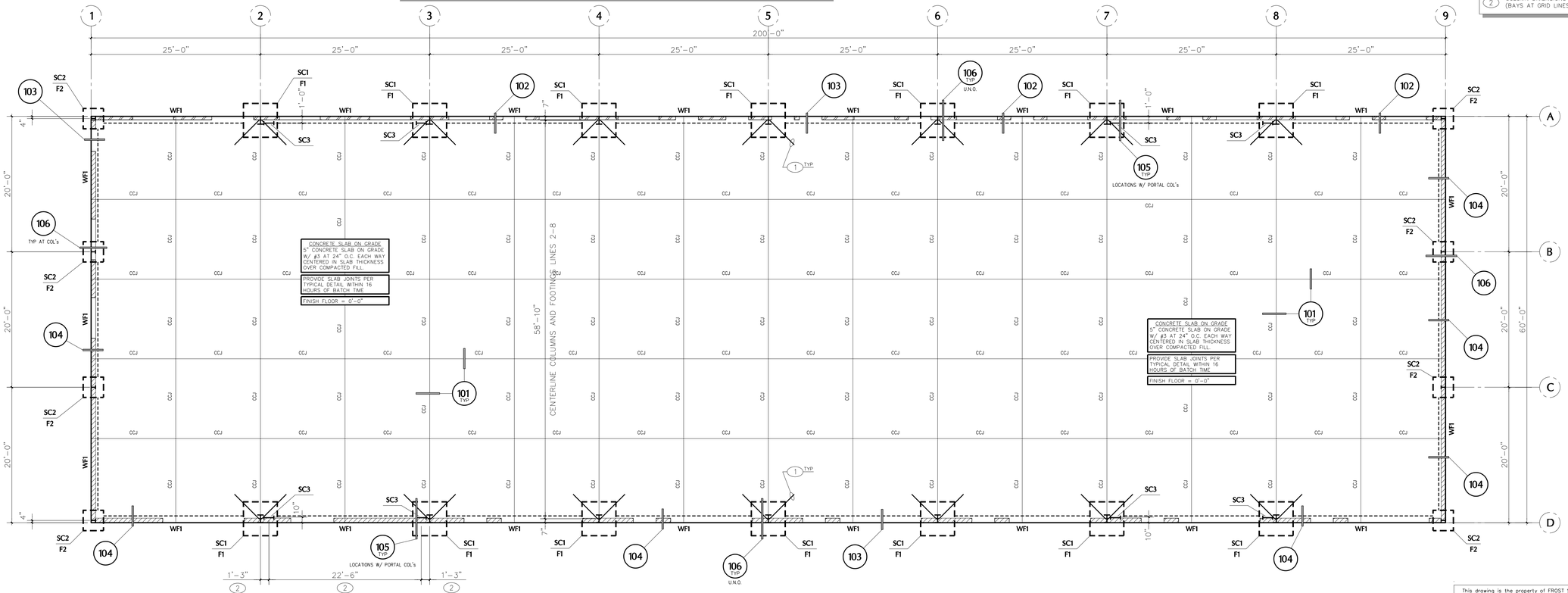
AS SEEN ON PLANS	INDICATES-
	6" STEEL C STUD WALL STUDS: 600S165-43 MILS (18GA), 33 KSI AT 24" O.C. (1) TRIMMER STUD AT EACH JAMB/(1) KING STUD AT EACH JAMB FOR OPENINGS UP TO 4'-0" WIDE/(2) KING STUDS AT EACH JAMB FOR OPENINGS UP TO 4'-0" WIDE/ SEE ALSO DETAIL 111
	METAL BUILDING WALL FRAMING W/ HORIZONTAL GIRTS PER FRAMING ELEVATIONS.

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.

PLAN KEYNOTES

1. HAIRPIN BAR PER STEEL COLUMN SCHEDULE.
2. COLUMN DIMENSIONS TYPICAL AT PORTAL COLUMNS (BAYS AT GRID LINES 2–3, 7–8)



FOUNDATION PLAN

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

PROJECT NORTH

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

File name: S2.dwg

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W. Alan Kenson & Associates, P.C.
P 928-443-5812 P.O. Box 11593
F 928-443-5815 Prescott, AZ 86304
email: waka@cableone.net
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6601 INter Cal Way
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103-50-054B & 103-50-054C

DRAWN BY	MJS
CHECKED BY	PJC
PLOT DATE	4/27/21
JOB NO.	2020-186
SHEET	S2

STEEL BEAM (B) SCHEDULE		
MARK	SIZE	CAMBER
B1	W24X62	STANDARD
B2	W8X18	STANDARD
B3	W12X19	STANDARD
B4	W16X40	---

STEEL PURLIN (SP) SCHEDULE		
MARK	SIZE	REMARKS
SP1	8"X2.5"X12GA. 'Z' PURLIN AT 5'-0" O.C.	---

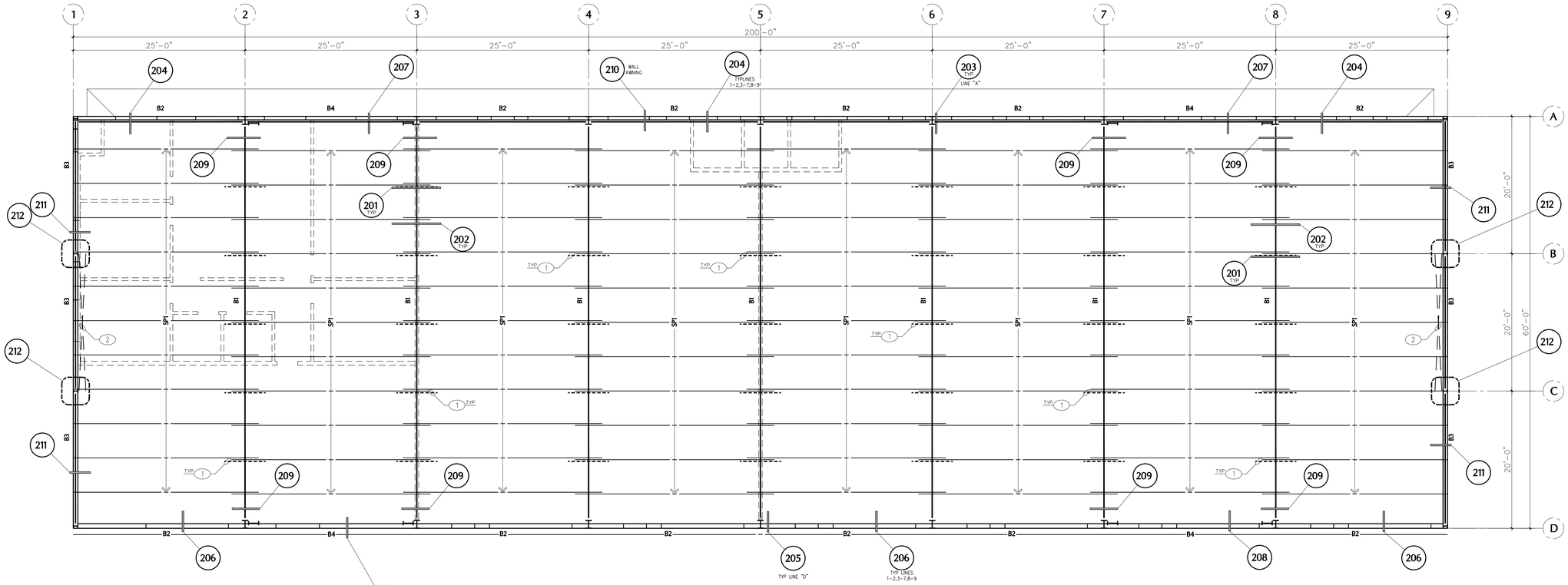
WALL SCHEDULE	
NOTE:	SEE PLAN SCHEDULES, DETAILS AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
AS SEEN ON PLANS	INDICATES-
	STRUCTURAL WALL BELOW (BEARING WALL, SHEARWALL, OR EXTERIOR WALL).
	NON-STRUCTURAL WALL BELOW.
	PARAPET WALL.

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 STEEL PURLINS. SEE STEEL PURLIN SCHEDULE FOR ADDITIONAL INFORMATION.
6. H1, H2, ETC. – AS SHOWN ON PLAN INDICATES A HEADER. SEE HEADER SCHEDULE FOR ADDITIONAL INFORMATION.
7. L1, L2, ETC. – AS SHOWN ON PLAN INDICATES A LEDGER. SEE LEDGER SCHEDULE FOR ADDITIONAL INFORMATION.
8. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
9. 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.
10. VERIFY EXACT SIZE AND WEIGHT OF EQUIPMENT ON ROOF WITH MECHANICAL CONTRACTOR.

PLAN KEYNOTES

1. L2½x2½x¼ BRACES AT EVERY OTHER PURLIN AS SHOWN SEE DETAIL **201**.
2. X-BRACING, SEE SHEET **S3.1**.



ROOF FRAMING PLAN

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

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JOB NO.: 2020-186	PROJECT MANAGER: PJC	CAD OPERATOR: MJS

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

File name: S3.dwg

REVISIONS	BY

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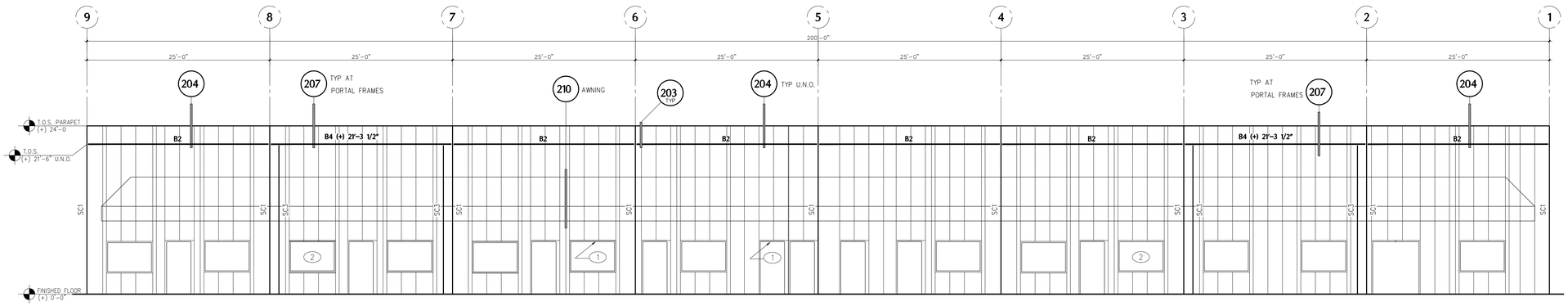
Registered Professional Engineer (Structural) CERTIFICATE NO. 27341 RICHARD K. FROST Expires 9/30/2023 ARIZONA U.S.A.

W. Alan Kenson & Associates, P.C.
P 928-443-5812 P.O. Box 11593
F 928-443-5815 Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: ROOF FRAMING PLAN

PROJECT: JSC CONTRACTING BUILDING A
6601 INter Cal Way
PRESCOTT, AZ 86301
103-50-054B & 103-50-054C

DRAWN BY	MJS
CHECKED BY	PJC
PLOT DATE	4/27/21
JOB NO	2020-186
SHEET	S3



A–A WEST – STRUCTURAL FRAMING ELEVATION

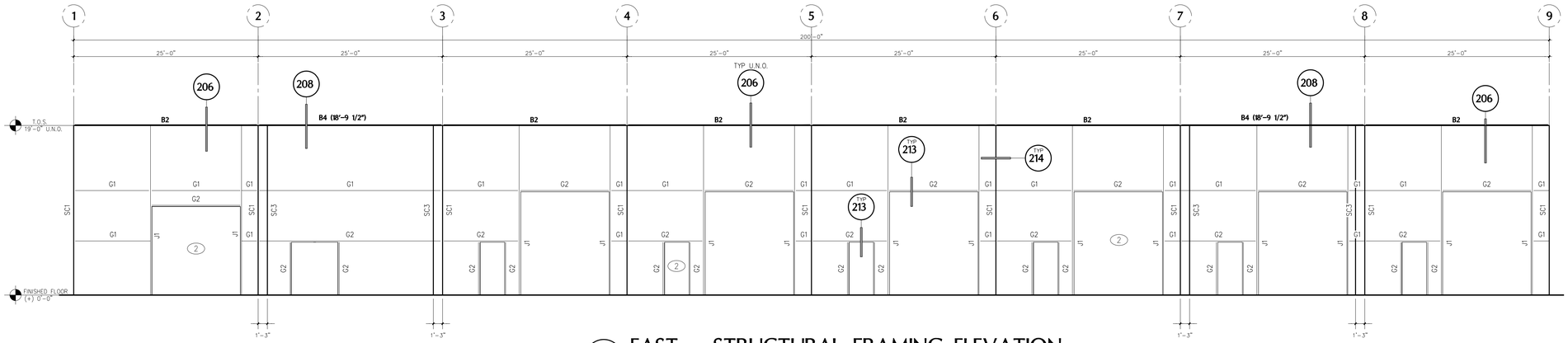
SCALE: 1/8" = 1'-0"

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 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. RJ1, RJ2, ETC. – AS SHOWN ON PLAN INDICATES ROOF JOISTS. SEE ROOF JOIST SCHEDULE FOR ADDITIONAL INFORMATION.
6. H1, H2, ETC. – AS SHOWN ON PLAN INDICATES A HEADER. SEE HEADER SCHEDULE FOR ADDITIONAL INFORMATION.
7. L1, L2, ETC. – AS SHOWN ON PLAN INDICATES A LEDGER. SEE LEDGER SCHEDULE FOR ADDITIONAL INFORMATION.
8. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
9. 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.
10. ⌐ ¬ / └ ┘ – AS SHOWN ON PLAN INDICATES HVAC EQUIPMENT ON ROOF OR IN ATTIC SPACE. SEE TYPICAL DETAILS FOR FRAMING INFORMATION.
11. VERIFY EXACT SIZE AND WEIGHT OF EQUIPMENT ON ROOF WITH MECHANICAL CONTRACTOR.

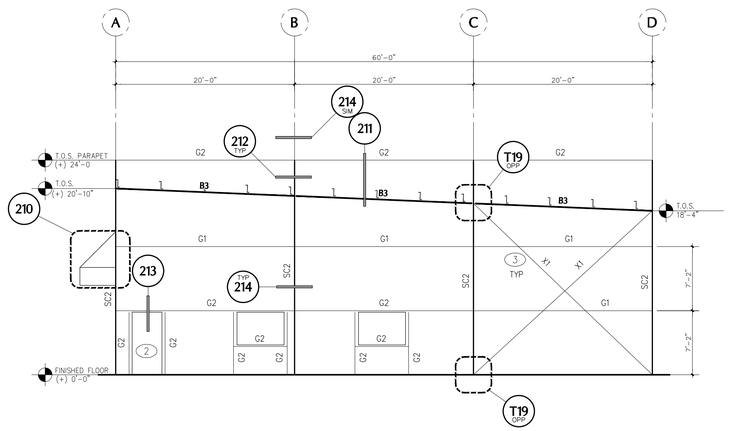
PLAN KEYNOTES

1. SEE TYPICAL DETAIL T11 FOR LIGHT GAGE STEEL WINDOW AND DOOR HEADERS
2. SEE ARCHITECTURAL DRAWINGS FOR SPECIFIC OPENING DIMENSIONS AND LOCATIONS
3. SLOT WALL GIRTS AT X-BRACING PER DETAIL 215.



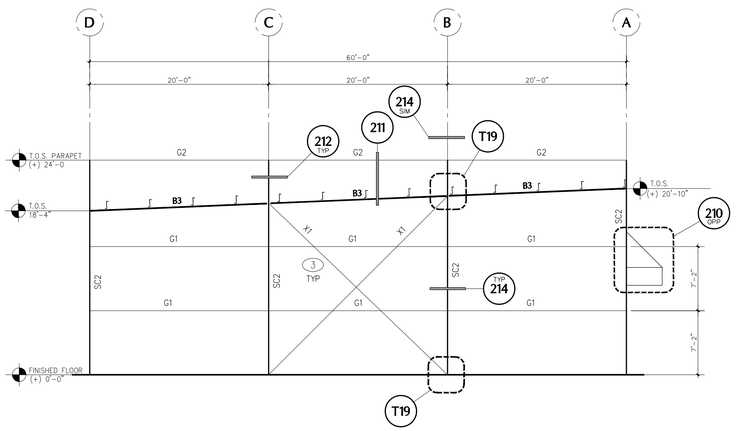
B–B EAST – STRUCTURAL FRAMING ELEVATION

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



D–D SOUTH – STRUCTURAL FRAMING ELEVATION

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



C–C NORTH – STRUCTURAL FRAMING ELEVATION

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

X–BRACE (X) SCHEDULE

MARK	SIZE
X1	5/8"DIA. A307 ROD, OR 5/8" DIA. WIRE ROPE. SEE DETAIL T19.

OVERHEAD DOOR JAMBS (J) SCHEDULE

MARK	SIZE
J1	8"X2.5"X12 GA "C"

WIND GIRT (G) SCHEDULE

MARK	SIZE
G1	8"X2.5"X14 GA. "Z"
G2	8" X 2.5" X 14 GA. "C"

STEEL BEAM (B) SCHEDULE

MARK	SIZE	CAMBER
B1	W24X62	STANDARD
B2	W8X18	STANDARD
B3	W12X19	STANDARD
B4	W16X40	---

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JOB NO.: 2020-186 | PROJECT MANAGER: PJC | CAD OPERATOR: MJS

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

file name: S3.1.dwg

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Registered Professional Engineer (Structural) CERTIFICATE NO. 27341 RICHARD K. FROST Date Signed 9-30-21 ARIZONA U.S.A. EXPIRES 9/30/2023

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

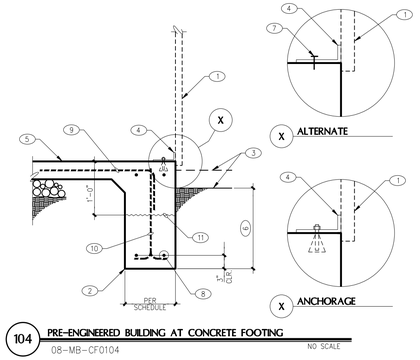
DRAWING: STRUCTURAL FRAMING ELEVATIONS

PROJECT: JSC CONTRACTING BUILDING A
6601 INter Cal Way
PRESCOTT, AZ 86301
103-50-0548 & 103-50-054C

DRAWN BY	MJS
CHECKED BY	PJC
PLOT DATE	4/28/21
JOB NO.	2020-186
SHEET	S3.1

KEY NOTES:

1. WALL PANEL/SIDING PER ARCHITECTURAL DRAWINGS.
2. CONTINUOUS CONCRETE TURN-DOWN FOOTING.
3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCHITECTURAL DRAWINGS.
4. CONTINUOUS BASE ANGLE PER MANUFACTURER 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 KWK-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. #3 L-SHAPED BENT BAR; 16"H., 9"V. AT 48" O.C. (LAP W/ #5 VERTICALS).
10. #5 HOOKED BAR AT 48" O.C. (ALTERNATE BENDS).
11. OPTIONAL COLD JOINT.



104 PRE-ENGINEERED BUILDING AT CONCRETE FOOTING
08-MB-CF0104 NO SCALE

NOTE:

WALL SIDING AND/OR METAL STUD FRAMING AS OCCURS NOT SHOWN FOR CLARITY. SEE DETAILS **102.** **104** AND ARCHITECTURAL DRAWINGS.

KEY NOTES:

1. STEEL COLUMN.
2. CONCRETE FOOTING.
3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCHITECTURAL DRAWINGS.
4. CONTINUOUS CONCRETE FOOTING – REINFORCING CONTINUOUS FROM BEYOND.
5. ANCHOR BOLTS WITH DOUBLE NUT AT BOTTOM.
6. CENTERLINE OF STEEL COLUMN AND FOOTING.
7. HAIRPIN BAR AS OCCURS.
8. CONCRETE SLAB ON GRADE.
9. MINIMUM FOOTING DEPTH PER G.S.N.
10. OPTIONAL COLD JOINT.
11. (2) #5 BARS @ AT 16" (D-5") 2
USE WHEN OPTIONAL COLD JOINT IS USED.
12. PORTAL FRAME STEEL COLUMN.

105 STEEL COLUMN AND PORTAL FRAME COLUMN AT CONCRETE FOOTING
08-MB-CF0201 NO SCALE

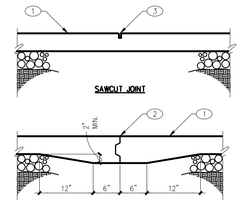
NOTE:

WALL SIDING AND/OR METAL STUD FRAMING AS OCCURS NOT SHOWN FOR CLARITY. SEE DETAILS **102.** **104** AND ARCHITECTURAL DRAWINGS.

KEY NOTES:

1. STEEL COLUMN.
2. CONCRETE FOOTING.
3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCHITECTURAL DRAWINGS.
4. CONTINUOUS CONCRETE FOOTING – REINFORCING CONTINUOUS FROM BEYOND.
5. ANCHOR BOLTS WITH DOUBLE NUT AT BOTTOM.
6. CENTERLINE OF STEEL COLUMN AND FOOTING.
7. HAIRPIN BAR AS OCCURS.
8. CONCRETE SLAB ON GRADE.
9. MINIMUM FOOTING DEPTH PER G.S.N.
10. OPTIONAL COLD JOINT.
11. (2) #5 BARS @ AT 16" (D-5") 2
USE WHEN OPTIONAL COLD JOINT IS USED.

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



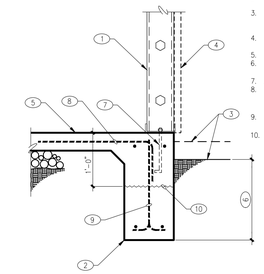
KEY NOTES:

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.

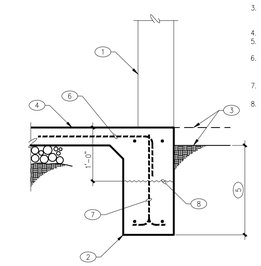
101 CONTROL JOINTS IN CONCRETE SLAB ON GRADE
03-CS0101 NO SCALE



KEY NOTES:

1. STEEL STUD WALL.
2. CONTINUOUS CONCRETE TURN-DOWN FOOTING.
3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCHITECTURAL DRAWINGS.
4. FINISH SYSTEM PER ARCHITECTURAL DRAWINGS.
5. CONCRETE SLAB ON GRADE.
6. MINIMUM FOOTING DEPTH PER G.S.N.
7. ⅝"ø ANCHOR BOLT AT 32" O.C.
8. #3 L-SHAPED BENT BAR; 16"H., 9"V. AT 48" O.C. (LAP W/ #5 VERTICALS).
9. #5 HOOKED BAR AT 48" O.C. (ALTERNATE BENDS).
10. OPTIONAL COLD JOINT.

102 PRE-ENGINEERED BUILDING AT CONCRETE FOOTING
08-MB-CF0106 NO SCALE



KEY NOTES:

1. STEEL BUILDING WALL BEYOND.
2. CONTINUOUS CONCRETE TURN-DOWN FOOTING.
3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCHITECTURAL DRAWINGS.
4. CONCRETE SLAB ON GRADE.
5. MINIMUM FOOTING DEPTH PER G.S.N.
6. #3 L-SHAPED BENT BAR; 16"H., 9"V. AT 48" O.C. (LAP W/ #5 VERTICALS).
7. #5 HOOKED BAR AT 48" O.C. (ALTERNATE BENDS).
8. OPTIONAL COLD JOINT.

103 STEEL BUILDING WALL AT CONCRETE FOOTING AT OPENING
08-MB-CF0403 NO SCALE

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info@frost-structural.com
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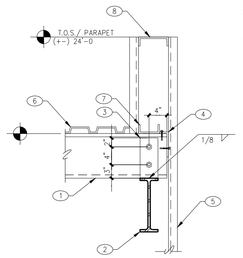
W. Alan Kenson & Associates, P.C.
P 928-443-5812
F 928-443-5815
P.O. Box 11593
Prescott, AZ 86304
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: FOUNDATION DETAILS 100-SERIES

PROJECT: JSC CONTRACTING BUILDING A
6601 INter Cal Way
PRESCOTT, AZ 86301
103-50-054B & 103-50-054C

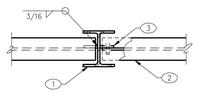
DRAWN BY	MJS
CHECKED BY	PJC
PLOT DATE	4/27/21
JOB NO.	2020-186
SHEET	S4



KEY NOTES:

1. STEEL PURLIN.
2. STEEL BEAM.
3. ¾" THICK STEEL PLATE W/ (2)-⅞"ø A307 BOLTS.
4. CONTINUOUS 8"X3 1/2"X14 GA. TRACK W/ (1)-#12 TEKS SCREW AT EACH PURLIN.
5. SIDING PER ARCHITECTURAL DRAWINGS.
6. METAL ROOFING PER ARCHITECTURAL DRAWINGS.
7. 3⅝" METAL STUD TRACK.
8. STEEL GIRT.

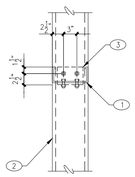
211 **STEEL PURLIN AT STEEL BEAM**
05-SP-SB0401-2
NO SCALE



KEY NOTES:

1. STEEL COLUMN.
2. STEEL BEAM. FLANGE SHOWN CUT AWAY FOR CLARITY.
3. ⅜"X4X9" SHEAR PLATE WITH BOLTING PER TYPICAL DETAIL T20.

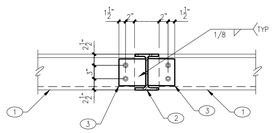
212 **STEEL COLUMN AT STEEL BEAM**
NO SCALE



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.

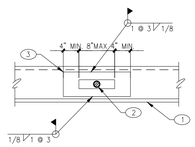
213 **STEEL CEE GIRT AT STEEL CEE JAMB**
05-SCG-SCJ0101
NO SCALE



KEY NOTES:

1. STEEL GIRT.
2. STEEL COLUMN.
3. 6"x6"x⅜" THICK STEEL PLATE W/ (2) ⅝"ø A307 BOLTS.

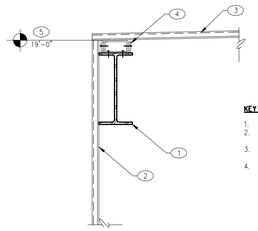
214 **STEEL GIRT AT STEEL COLUMN**
NO SCALE



KEY NOTES:

1. WALL GIRT.
2. X-BRACE STEEL ROD OR WIRE ROPE.
3. SLOT GIRT IN FIELD AS REQUIRED. REINFORCE SLOT WITH ⅜"X6" PLATE.

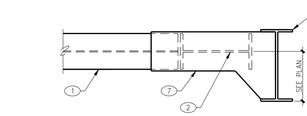
215 **X-BRACING AT WALL GIRT**
NO SCALE



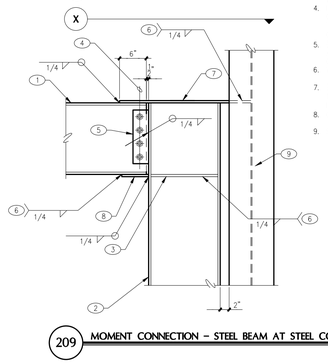
KEY NOTES:

1. STEEL PORTAL BEAM.
2. METAL SIDING PER ARCHITECTURAL DRAWINGS.
3. METAL ROOFING PER ARCHITECTURAL DRAWINGS.
4. (2) 6" TRACK STUDS SCREWED TOGETHER AT FLANGES (6" O.C.) TO FORM BOX MEMBER. FIRST SCREW LOWER TRACK STUD TO SUPPORTING WIDE FLANGE BEAM W/ #10 TEK SCREWS AT 12" O.C. (STAGGERED).
5. ROOF DECK BEARING.

208 **STEEL PORTAL BEAM**
NO SCALE



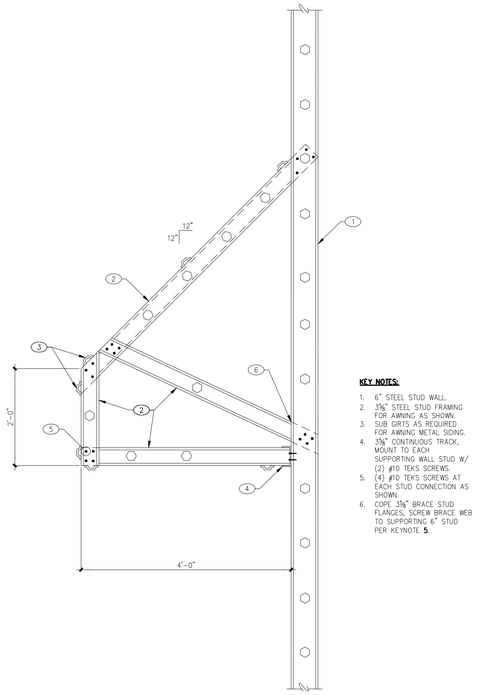
X **PLAN**



KEY NOTES:

1. PORTAL FRAME STEEL BEAM.
2. PORTAL FRAME STEEL COLUMN.
3. ⅜" THICK FITTED STIFFENER PLATE EACH SIDE OF COLUMN WEB.
4. FOR TYPE, SIZE AND NUMBER OF BOLTS, SEE DETAIL **T20** "BOLT SCHEDULE FOR STEEL CONNECTIONS".
5. ⅜" STEEL SHEAR PLATE OR ALT. DOUBLE CLIP ANGLE CONNECTION.
6. WELD 3 SIDES OF PLATE, TYPICAL.
7. ⅜" THICK STEEL CAP PLATE, 1" WIDER THAN COLUMN OR BEAM.
8. 6" LONG X 8" WIDE X ½" THICK STEEL PLATE.
9. STEEL COLUMN.

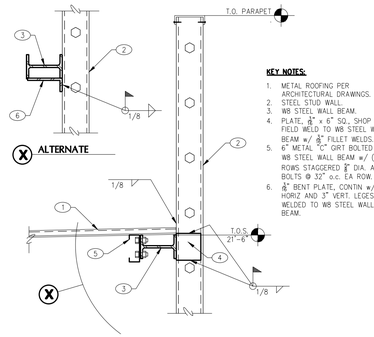
209 **MOMENT CONNECTION – STEEL BEAM AT STEEL COLUMN**
NO SCALE



KEY NOTES:

1. 6" STEEL STUD WALL.
2. 3⅝" STEEL STUD FRAMING FOR AWNING AS SHOWN.
3. SUB GIRTS AS REQUIRED FOR AWNING METAL SIDING.
4. 3⅝" CONTINUOUS TRACK, MOUNT TO EACH SUPPORTING WALL STUD W/ (2) #10 TEKS SCREWS.
5. (4) #10 TEKS SCREWS AT EACH STUD CONNECTION AS SHOWN.
6. COPE 3⅝" BRACE STUD FLANGES, SCREW BRACE WEB TO SUPPORTING 6" STUD PER KEYNOTE **5**.

210 **AWNING DETAIL**
NO SCALE



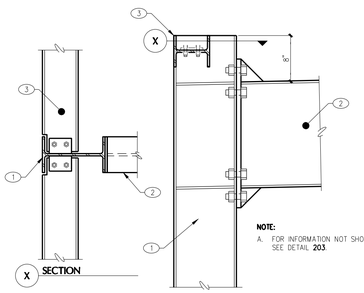
KEY NOTES:

1. METAL ROOFING PER ARCHITECTURAL DRAWINGS.
2. STEEL STUD WALL.
3. W8 STEEL WALL BEAM.
4. PLATE, ¾" x 6" SQ., SHOP OR FIELD WELD TO W8 STEEL WALL BEAM w/ ⅜" FILLET WELDS.
5. 6" METAL "C" GIRT BOLTED TO W8 STEEL WALL BEAM w/ (2) ROWS STAGGERED ⅞" DIA. A307 BOLTS @ 32" o.c. EA ROW.
6. ⅜" BENT PLATE, CONTIN w/ 7 ¾" HORIZ AND 3" VERT. LEGES SHOP WELDED TO W8 STEEL WALL BEAM.

204 **STEEL BEAM AT STEEL STUD WALL**
NO SCALE

KEY NOTES:

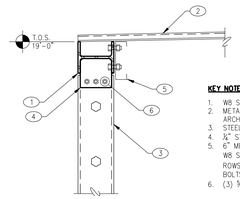
1. STEEL COLUMN.
2. STEEL ROOF FRAME BEAM.
3. STEEL WALL BEAM.



NOTE:

A. FOR INFORMATION NOT SHOWN SEE DETAIL **203**.

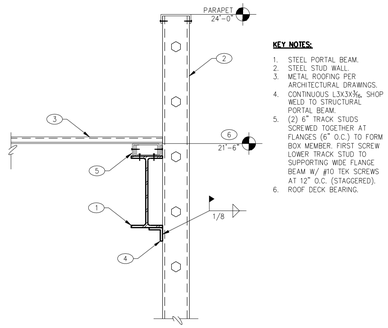
205 **STEEL PURLIN AT STEEL COLUMN**
NO SCALE



KEY NOTES:

1. W8 STEEL WALL BEAM.
2. METAL ROOFING PER ARCHITECTURAL DRAWINGS.
3. STEEL STUD WALL.
4. ½" STEEL PLATE.
5. 6" METAL "C" GIRT BOLTED TO W8 STEEL WALL BEAM w/ (2) ROWS STAGGERED ⅞" DIA A307 BOLTS @ 32" o.c. EA ROW.
6. (3) ⅜"ø A307 BOLTS.

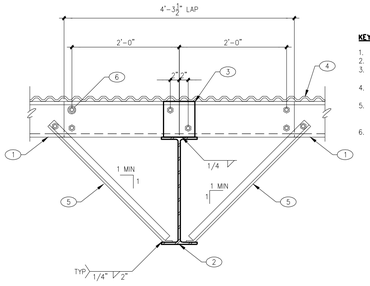
206 **EAST EAVE**
NO SCALE



KEY NOTES:

1. STEEL PORTAL BEAM.
2. STEEL STUD WALL.
3. METAL ROOFING PER ARCHITECTURAL DRAWINGS.
4. CONTINUOUS L3X3X¼ SHOP WELD TO STRUCTURAL PORTAL BEAM.
5. (2) 6" TRACK STUDS SCREWED TOGETHER AT FLANGES (6" O.C.) TO FORM BOX MEMBER. FIRST SCREW LOWER TRACK STUD TO SUPPORTING WIDE FLANGE BEAM W/ #10 TEK SCREWS AT 12" O.C. (STAGGERED).
6. ROOF DECK BEARING.

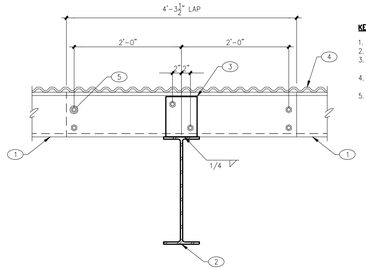
207 **STEEL PORTAL BEAM**
NO SCALE



KEY NOTES:

1. STEEL PURLIN.
2. STEEL BEAM.
3. 7"X9"X5/16" THICK PLATE WITH (2) ⅝"ø A307 BOLTS.
4. METAL ROOFING PER ARCHITECTURAL DRAWINGS.
5. STEEL BRACE L2X2X¼ WITH (1) ⅝"ø A307 BOLT – SEE PLAN FOR LOCATIONS.
6. (4) ⅝"ø A307 BOLTS AS SHOWN – BOLT GAGES PER PURLIN MANUFACTURER.

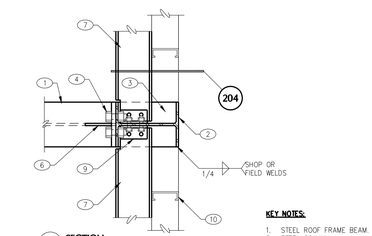
201 **STEEL PURLIN AT STEEL BEAM W/ BRACES**
NO SCALE



KEY NOTES:

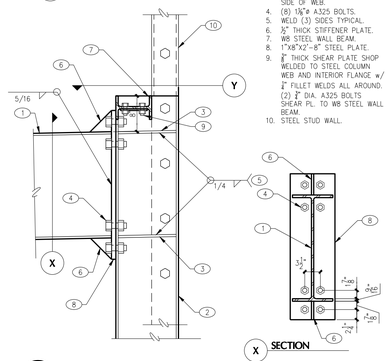
1. STEEL PURLIN.
2. STEEL BEAM.
3. 7"X9"X5/16" THICK PLATE WITH (2) ⅝"ø A307 BOLTS.
4. METAL ROOFING PER ARCHITECTURAL DRAWINGS.
5. (4) ⅝"ø A307 BOLTS AS SHOWN – BOLT GAGES PER PURLIN MANUFACTURER.

202 **STEEL PURLIN AT STEEL BEAM**
NO SCALE



KEY NOTES:

1. STEEL ROOF FRAME BEAM.
2. STEEL COLUMN.
3. ½" STIFFENER PLATE EACH SIDE OF WEB.
4. (8) 1⅛"ø A325 BOLTS.
5. WELD (3) SIDES TYPICAL.
6. ½" THICK STIFFENER PLATE.
7. W8 STEEL WALL BEAM.
8. 1"X8"X2'-8" STEEL PLATE.
9. ⅜" THICK SHEAR PLATE SHOP WELDED TO STEEL COLUMN WEB AND INTERIOR FLANGE w/ ¼" FILLET WELDS ALL AROUND. (2) ⅞" DIA. A325 BOLTS SHEAR PL. TO W8 STEEL WALL BEAM.
10. STEEL STUD WALL.



203 **MOMENT CONNECTION – STEEL BEAM AT STEEL COLUMN**
05-SB-SC0302-4
NO SCALE

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JOB NO.: 2020-186	PROJECT MANAGER: PJC	CAD OPERATOR: MJS

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

file name: S5.dwg

REVISIONS	BY

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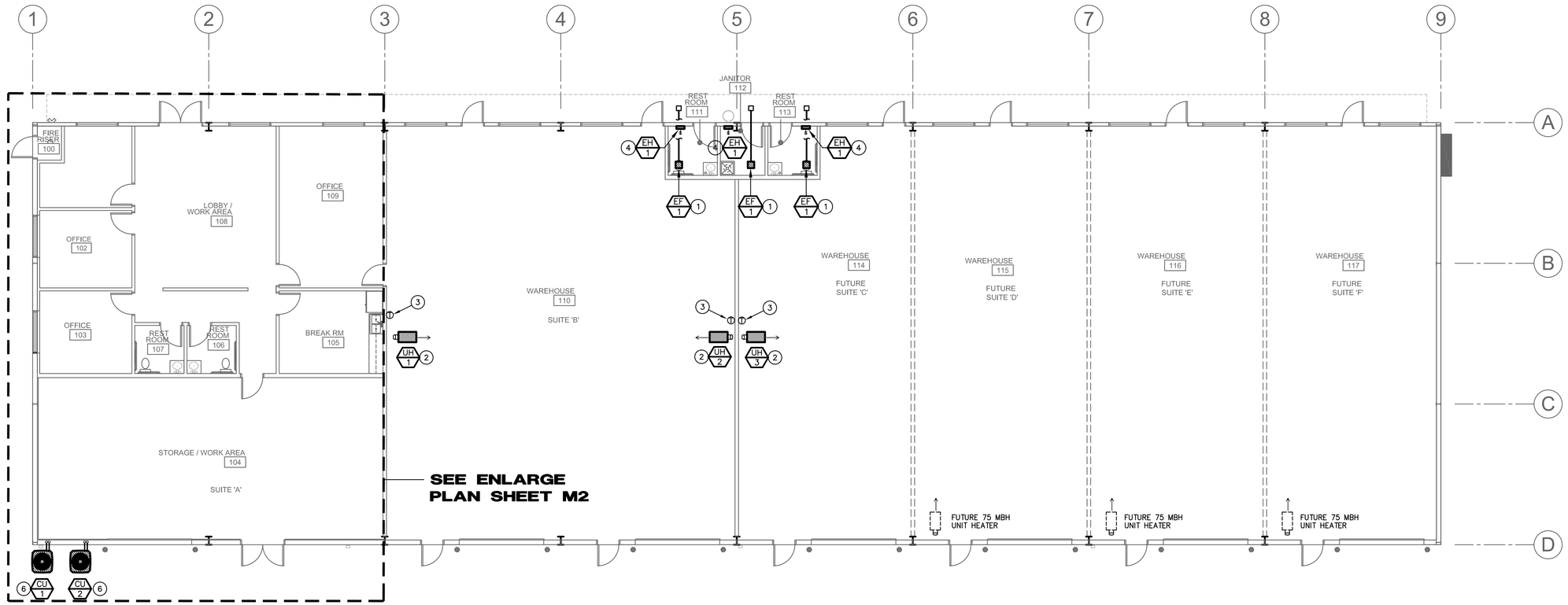
Registered Professional Engineer (Structural) CERTIFICATE NO. 27341 RICHARD K. FROST ARIZONA U.S.A. EXPIRES 9/30/2023

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: FRAMING DETAILS 200-SERIES

PROJECT: JSC CONTRACTING BUILDING A
6601 INter Cal Way
PRESCOTT, AZ 86301
103-50-054B & 103-50-054C

DRAWN BY	MJS
CHECKED BY	PJC
PLOT DATE	4/27/21
JOB NO.	2020-186
SHEET	S5



M1 Mechanical Plan

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

Plan North

KEYNOTES

1. CEILING MOUNTED EXHAUST FAN WITH BACKDRAFT DAMPER. TRANSITION EXHAUST DUCT FROM UNIT DISCHARGE AND ROUTE TO MANUFACTURER'S SOFFIT DISCHARGE. MAINTAIN A MINIMUM 10' CLEARANCE FROM ALL OUTSIDE AIR INTAKES.
2. GAS-FIRED UNIT HEATER SUPPORTED FROM STRUCTURE, WITH TYPE "B" FLUE UP THROUGH ROOF. COORDINATE UNIT HEATER MOUNTING HEIGHT.
3. PROVIDE UNIT HEATER WITH LOW VOLTAGE THERMOSTAT WITH INSULATED SUB-BASE.
4. ELECTRIC HEATER WITH INTEGRAL THERMOSTAT.

OSE Design Group, LLC
Consulting Engineers
611 West Delano Ave
Prescott, AZ 86301
(602) 499.0001
Project #20083
10922 N. 153rd Ln.
Surprise, AZ 85379
(623) 444-6143

REVISIONS	BY

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Registered Professional Engineer
33491
WILLIAM MARK ODELL
Date Signed 09/27/21
ARIZONA U. S. A.

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

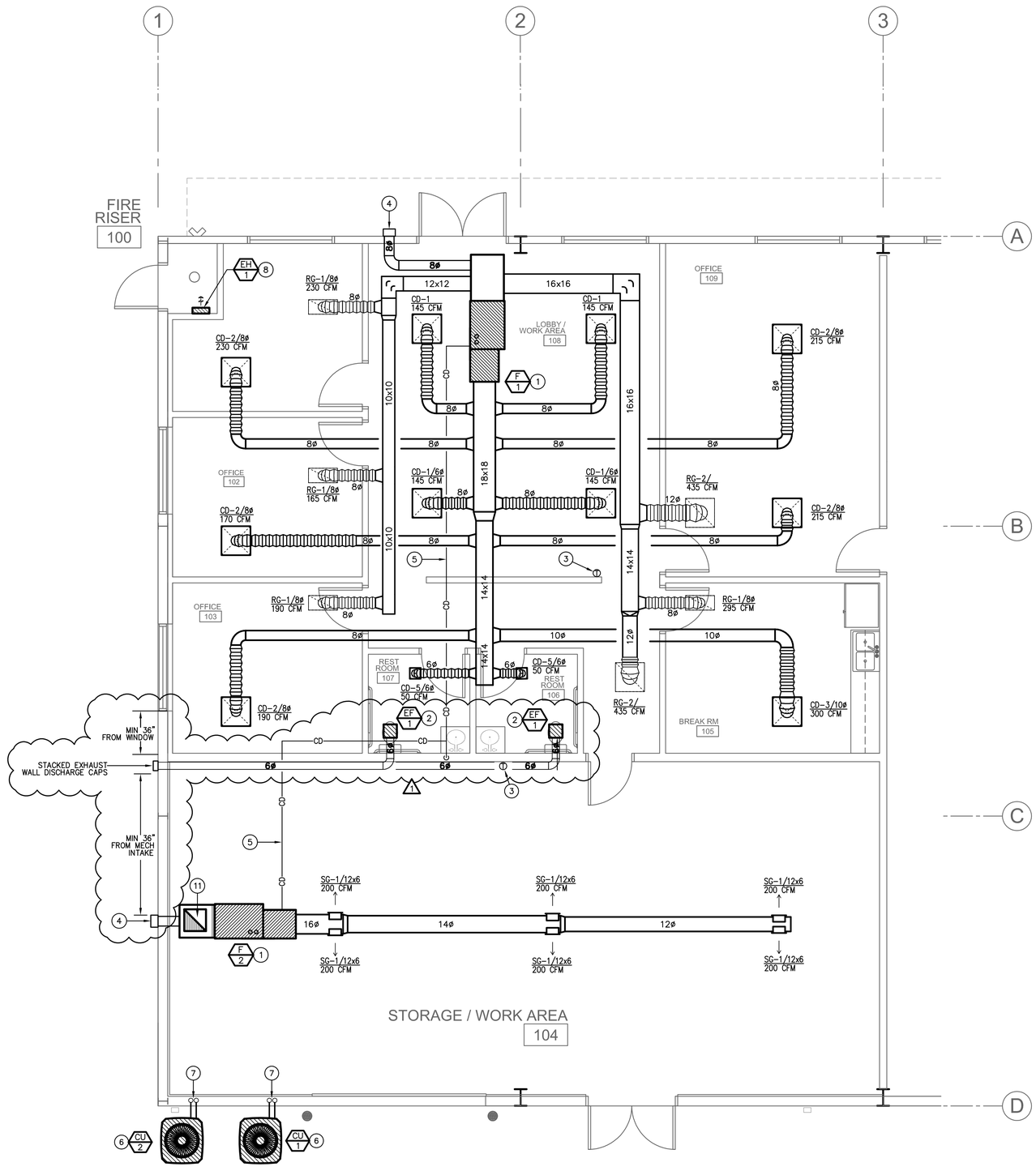
DRAWING: Mechanical Floor Plan

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY
CHECKED BY
DATE October 22nd, 2020
JOB NO. 759
SHEET
M1.0

Oct 22, 2020 - 2:26pm



KEYNOTES

1. NEW HORIZONTAL, SEALED COMBUSTION, NATURAL GAS FURNACE ABOVE LAY-IN CEILING. MAINTAIN ALL NECESSARY CLEARANCES AND MAINTENANCE ACCESS REQUIREMENTS. ROUTE AND CONNECT REFRIGERANT LINES FROM CONDENSING UNIT. ROUTE PVC COMBUSTION AIR INTAKE AND VENT PIPING TO CONCENTRIC ROOF TERMINATION PER MANUFACTURER. INSTALLATION SHALL BE IN ACCORDANCE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE INSTALLED LENGTH AND FITTINGS.
2. CEILING MOUNTED EXHAUST FAN WITH BACKDRAFT DAMPER. TRANSITION EXHAUST DUCT FROM UNIT DISCHARGE AND ROUTE TO MANUFACTURER'S WALL DISCHARGE. MAINTAIN A MINIMUM 10' CLEARANCE FROM ALL OUTSIDE AIR INTAKES.
3. PROVIDE HEATING/COOLING PROGRAMMABLE THERMOSTAT ON WALL AT 48" ABOVE FINISHED FLOOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER.
4. EXTEND 8ø OUTSIDE AIR DUCT (WITH BALANCE DAMPER) FROM RETURN PLENUM TO "FAMCO" #SMVBA WALL INTAKE HOOD. BALANCE OUTSIDE AIR AS SHOWN ON SCHEDULE.
5. EXTEND NEW 3/4" TYPE 'M' COPPER CONDENSATE DRAIN PIPING FROM UNIT CONNECTION AND ROUTE TO LAVATORY TAILPIECE OR JANITORS SINK. SLOPE ALL DRAIN PIPING AT A MINIMUM 1/8" PER FOOT TOWARD DISCHARGE LOCATION.
6. OUTDOOR CONDENSING UNIT CONCRETE PAD. PROVIDE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.
7. SLEEVE REFRIGERANT PIPING THROUGH WALLS AND ROUTE TO CORRESPONDING COIL. SIZE, INSULATE AND INSTALL PIPING PER MANUFACTURER'S RECOMMENDATIONS. FOLLOW MANUFACTURER'S PIPING GUIDE FOR ANY PIPING LENGTHS OVER 50 FEET. INSULATE REFRIGERANT PIPING PER SPECIFICATIONS.
8. ELECTRIC HEATER WITH INTEGRAL THERMOSTAT.

ASHRAE 62.1 OUTSIDE AIR VENTILATION CALC

Outside Air for Unit F-1

Space	Area	Occ Density	Rp	Pz	Ra	Az	Vbz
Storage	95	0	5	0	0.12	95	11.4
Offices	1232	5	5	6.16	0.06	1232	104.7
Break Room	173	25	5	4.325	0.06	173	32.0
Corridors	132	0	0	0	0.06	132	7.9
Balance F-1 to 156 CFM				Total Net OSA Required			156

Outside Air for Unit F-2

Space	Area	Occ Density	Rp	Pz	Ra	Az	Vbz
Workroom	1,150	5	5	5.75	0.06	1150	97.8
Balance F-2 to 98 CFM				Total Net OSA Required			98

6.2.2.1 Breathing Zone Outdoor Airflow. The design outdoor airflow required in the *breathing zone* of the occupiable space or spaces in a *zone, i.e., the breathing zone outdoor airflow* (V_{bz}), shall be determined in accordance with Equation 6-1.

$$V_{bz} = R_p \cdot P_z + R_a \cdot A_z \qquad (6\text{-}1)$$

where

A_z = *zone floor area*: the net occupiable floor area of the *zone* m^2 (ft^2)

P_z = *zone population*: the largest number of people expected to occupy the zone during typical usage. If the number of people expected to occupy the zone fluctuates, P_z may be estimated based on averaging approaches described in Section 6.2.6.2

Note: If P_z cannot be accurately predicted during design, it shall be an estimated value based on the zone floor area and the default occupant density listed in Table 6-1.

R_p = outdoor airflow rate required per person as determined from Table 6-1

Note: These values are based on adapted occupants.

R_a = outdoor airflow rate required per unit area as determined from Table 6-1

M1 Enlarged Mechanical Plan

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

Plan North

Oct 22, 2020 - 2:26pm

REVISIONS	BY
1 CITY COMMENTS 06/25/21	WMO

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Registered Professional Engineer
33491
WILLIAM MARK ODELL
Date Signed 06/25/21
ARIZONA U.S.A.

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Enlarged Mechanical Floor Plan

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY

CHECKED BY

DATE
October 22nd, 2020

JOB NO.
759

SHEET
M2.0

OSE Design Group, LLC
Consulting Engineers
611 West Delano Ave
Prescott, AZ 86301
(602) 499.0001
Project #20083
10922 N. 153rd Ln.
Surprise, AZ 85379
(623) 444-6143

MECHANICAL SPECIFICATIONS

GENERAL REQUIREMENTS
GENERAL PROVISIONS WHICH MAKE SPECIFIC REFERENCE TO ELECTRICAL DIVISION ONLY ARE INCLUDED HEREIN FOR CLARITY AND SIMPLIFICATION OF SPECIFICATIONS WRITING AND ARE NOT PART OF THE MECHANICAL WORK. THE WORK OF DIVISION 15, MECHANICAL, IS SUBJECT TO THE CONDITIONS OF THE CONDITIONS OF THE CONTRACT, DIVISION 1, GENERAL REQUIREMENTS, AND APPLICABLE REQUIREMENTS OF OTHER PORTIONS OF THE CONTRACT DOCUMENTS. EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS AND COORDINATE THE MECHANICAL WORK ACCORDINGLY.

INTENT
IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON THE DRAWINGS, BUT MENTIONED IN THE SPECIFICATIONS OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. SHALL THERE APPEAR TO BE DISCREPANCIES OR QUESTIONS OF INTENT IN THE CONTRACT. DOCUMENTS, REFER THE MATTER TO THE ARCHITECT FOR HIS DECISION BEFORE ORDERING ANY MATERIALS OR EQUIPMENT OR BEFORE THE START OF ANY RELATED WORK. THE DECISION OF THE ARCHITECT SHALL BE FINAL, CONCLUSIVE AND BINDING.

DRAWINGS AND DATA
DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE OF WORK AND TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTS, CONDUITS, PIPING AND FIXTURES. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTINGS OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT PROJECT AND SHALL HAVE APPROVAL OF ARCHITECT BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS. IF SO DIRECTED BY ARCHITECT, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF WORK. INCLUDE MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION OF A SYSTEM OR PIECE OF EQUIPMENT IN BID PRICE.

CODES
INCLUDE IN WORK, WITHOUT EXTRA COST TO OWNER, LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS) REQUIRED TO COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS. DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, ORDINANCES, STANDARDS AND STATUTES. CODES, ORDINANCES, STANDARDS AND STATUES TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH DRAWINGS OR SPECIFICATIONS. FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS:

A. APPLICABLE CITY, COUNTY, AND STATE MECHANICAL, ELECTRICAL, GAS, PLUMBING, HEALTH AND SANITARY CODES, LAWS AND ORDINANCES.
B. CITY OR OTHER APPLICABLE BUILDING CODES.
C. 2018 INTERNATIONAL MECHANICAL CODE WITH LOCAL AMENDMENTS.
D. REGULATIONS, PERMITS, INSPECTIONS: COMPLY WITH ALL APPLICABLE CODED, RULES AND REGULATIONS. ALL MATERIALS, EQUIPMENT AND WORK MUST CONFORM TO THE INTERNATIONAL MECHANICAL CODE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

GENERAL
MATERIALS AND EQUIPMENT STANDARD PRODUCTS OF A REPUTABLE MANUFACTURER REGULARLY ENGAGED IN MANUFACTURE OF THE SPECIFIED ITEMS. WHERE MORE THAN ONE UNIT IS REQUIRED OF ANY ITEM, FURNISHED BY THE SAME MANUFACTURER, EXCEPT WHERE SPECIFIED OTHERWISE. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SHOULD VARIANCE BETWEEN PLANS AND SPECIFICATIONS OCCUR WITH THESE, CONTACT ARCHITECT IMMEDIATELY SO THAT VARIATIONS IN INSTALLATION CAN BE KNOWN BY ALL PARTIES CONCERNED. PROVIDE EQUIPMENT FROM MANUFACTURER WHOSE PRODUCTS HAVE LOCAL REPRESENTATION.

EXECUTION
PROTECT EXISTING ACTIVE SERVICES (WATER, GAS, SEWER, ELECTRIC) WHEN ENCOUNTERED, AGAINST DAMAGE FROM CONSTRUCTION WORK. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES WHICH ARE TO REMAIN. IF WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVOIDABLE, CONSULT WITH OWNER AS TO DATES, PROCEDURES, AND ESTIMATED DURATION OF AT LEAST TO WORKING DAYS IN ADVANCE OF DATE WHEN WORK IS TO BE PERFORMED. ARRANGE WORK FOR CONTINUOUS PERFORMANCE TO ASSURE THAT EXISTING OPERATING SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME REQUIRED TO MAKE NECESSARY CONNECTIONS. IF A SYSTEM CANNOT SHUT DOWN, INSTALL TEMPORARY BYPASSES OR JUMPERS UNTIL CONNECTIONS ARE COMPLETE. CONTRACTOR RESPONSIBLE FOR ALL COSTS INCURRED BY ABOVE SHUTDOWNS, INCLUDING BYPASS OR JUMPER INSTALLATIONS, FOR WORK PERFORMED UNDER THIS SECTION. IF EXISTING ACTIVE UTILITY SERVICES ARE ENCOUNTERED WHICH REQUIRE RELOCATION, MAKE REQUEST TO PROPER AUTHORITIES FOR DETERMINATION OF PROCEDURES. PROPERLY TERMINATE EXISTING SERVICES TO BE ABANDONED IN CONFORMANCE WITH REQUIREMENTS OF AUTHORITIES. WHERE CONNECTIONS OR DISRUPTIONS ARE MADE TO EXISTING SYSTEMS, REACTIVATE, REFILL, AND RECHARGE ALL COMPONENTS AND RESTORE SYSTEMS TO OPERATING CONDITIONS AT TIME OF DISRUPTION.

GUARANTEE
EACH COMPLETE SYSTEM GUARANTEED BY CONTRACTOR FOR A PERIOD OF ONE YEAR, FROM DATE OF ACCEPTANCE OF WORK BY OWNER IN WRITING, TO BE FREE OF DEFECTS OF MATERIALS AND WORKMANSHIP, AND TO PERFORM SATISFACTORILY UNDER ALL CONDITIONS OF LOAD OR SERVICE. THE GUARANTEES PROVIDE THAT ANY ADDITIONAL CONTROLS, PROTECTIVE DEVICES, OR EQUIPMENT BE PROVIDED AS NECESSARY TO MAKE THE SYSTEM OF EQUIPMENT OPERATE SATISFACTORILY, AND THAT ANY FAULTY MATERIALS OR WORKMANSHIP BE REPLACED OR REPAIRED. ON FAILURE OF GUARANTOR TO DO THE ABOVE AFTER WRITTEN NOTICE FROM OWNER, THE OWNER MAY HAVE THE WORK DOWN AT THE COST OF GUARANTOR. LOSS OF REFRIGERANT IS CONSIDERED A DEFECT IN WORKMANSHIP AND/OR EQUIPMENT, TO BE CORRECTED AS REQUIRED AT NO EXTRA COST TO THE OWNER. PROVIDE EXTENDED FIVE (5) YEAR FACTORY PARTS & LABOR WARRANTY ON ALL AIR CONDITIONING COMPRESSORS.

AIR CONDITIONING, HEATING AND VENTILATING

SCOPE
WORK UNDER THIS SECTION INCLUDES FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE REMODELING, INSTALLATION AND PLACING INTO OPERATION THE HEATING, VENTILATING AND AIR CONDITIONING WORK AS SPECIFIED HEREIN AND INDICATED ON THE DRAWINGS.

VERIFICATION OF DIMENSIONS:
SCALED AND FIGURED DIMENSIONS ARE APPROXIMATE ONLY. BEFORE PROCEEDING WITH WORK, CAREFULLY CHECK AND VERIFY AT THE SITE, AND RESPONSIBLE FOR PROPERLY FITTING EQUIPMENT AND MATERIALS TOGETHER AND TO THE STRUCTURE IN SPACES PROVIDED. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND MANY OFFSETS, BENDS, SPECIAL FITTINGS AND EXACT LOCATIONS ARE NOT INDICATED. CAREFULLY STUDY DRAWINGS AND PREMISES I ORDER TO DETERMINE BEST METHODS, EXACT LOCATIONS, ROUTES AND BUILDING OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.

CUTTING AND PATCHING:
CUT EXISTING WORK AND PATCH AS NECESSARY TO PROPERLY INSTALL THE NEW WORK. AS THE WORK PROGRESSES, LEAVE NECESSARY OPENINGS, HOLES AND CHASES, ETC., IN THEIR CORRECT LOCATIONS. IF THE REQUIRED OPENINGS, HOLES AND CHASES ETC., ARE NOT IN THEIR CORRECT LOCATIONS, MAKE THE NECESSARY CORRECTIONS AT NO COST TO THE OWNER. AVOID EXCESSIVE CUTTING AND DO NOT CUT STRUCTURAL MEMBERS WITHOUT CONSENT OF ARCHITECT.

REGULATIONS, PERMITS & INSPECTIONS
COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. ALL MATERIALS, EQUIPMENT AND WORK MUST CONFORM TO THE INTERNATIONAL MECHANICAL CODE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

DUCTWORK
ALL DUCTWORK FABRICATED AS PER LATEST INTERNATIONAL MECHANICAL CODE REQUIREMENTS AND SMACNA MANUAL. EXTENSION OF EXISTING DUCTWORK SHALL BE MADE WITH SOME MATERIAL. DUCTWORK SHALL BE CONSTRUCTED OF NEW HOT-DIPPED GALVANIZED SHEET METAL ASTM A-120 FOR EACH SIDE. TAPE ALL CROSS-JOINTS IN SHEET METAL DUCT WITH HARDCAST. TAKE-OFF FITTINGS SHALL BE CONICAL SPIN-IN WITH QUADRANT DAMPER. TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.

FLEXIBLE DUCT
FLEXIBLE DUCT MAY BE USED WHEN CONCEALED FOR FINAL CONNECTION TO AIR DISTRIBUTION DEVICES, BUT SHALL NOT EXCEED 8 FEET IN LENGTH. FLEXIBLE DUCT SHALL HAVE A MINIMUM R-6 INSULATION VALUE.

DUCT INSULATION
DUCT SIZES ON DRAWINGS ARE "CLEAR INSIDE." INCREASE SHEET METAL SIZES ACCORDINGLY FOR LINED DUCTWORK. ADHESIVE AND INSULATING MATERIALS SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS MAXIMUM 25 FOR FLAME SPREAD AND 50 FOR SMOKE DEVELOPED. ADHESIVES SHALL BE WATERPROOF.

DUCT INSULATION SCHEDULE:

CONCEALED RECTANGULAR	LINED OR WRAPPED
CONCEALED ROUND	LINED OR WRAPPED

DUCTS IN CONDITIONED SPACE:
RECTANGULAR LINED DUCTWORK – SEMI-RIGID GLASS FIBER INSULATION, 1 1/2 PCF,
1 1/2" THICK, THERMAL CONDUCTIVITY AT 75°. MAXIMUM 0.17 BTU/IN./SQ. FT./DEG./HR. MINIMUM "R-VALUE" SHALL BE 6.0.

DUCTS IN CEILINGS OR OTHER UNCONDITIONED SPACE:
LINED DUCTWORK – SEMI-RIGID GLASS FIBER INSULATION, 1 1/2 PCF, 2" THICK, THERMAL CONDUCTIVITY AT 75°. MAXIMUM 0.13 BTU/IN./SQ. FT./DEG./HR. MINIMUM "R-VALUE" SHALL BE 8.0.

WRAPPED DUCTWORK – FIBER GLASS BLANKET WITH FRK VAPOR RETARDING FACING. 0.75 PCF, 3" THICK, WITH A MINIMUM INSTALLED "R-VALUE" OF 8.0. (ASSUMES 25% COMPRESSION)

HVAC EQUIPMENT CONDENSATE DRAINS
USE TYPE M COPPER TUBING AND WROUGHT COPPER MECHANICAL FITTINGS. EXTEND DRAINS TO NEAREST ROOF DRAIN OR LAVATORY TAIL-PIECE (FURNISHED BY PLUMBER). SLOPE DRAIN AT A MINIMUM OF 1/8" PER FOOT.

AIR SYSTEM BALANCING
AIR SYSTEMS AND AIR DISTRIBUTION TEST AND BALANCE: THE CONTRACTOR SHALL ADJUST AND BALANCE AIR MOVING EQUIPMENT AND AIR DISTRIBUTING OR EXHAUSTING SYSTEMS AS HEREIN SPECIFIED AND UPON REQUEST PROVIDE REPORT OF TEST AND BALANCING TO ARCHITECT/ENGINEER FOR REVIEW.

CU – CONDENSING UNIT SCHEDULE

MARK	NOMINAL TONS	MFG'R	MODEL #	COOLING CAPACITY TOTAL	COOLING CAPACITY SENS.	DESIGN COND. DB/WB	INDOOR COIL MODEL #	COIL ENT. AIR DB/WB	ELECTRICAL DATA MCA	ELECTRICAL DATA FUSE	ELECTRICAL DATA V / Ø	MINIMUM SEER	REFRIGERANT	WEIGHT (LBS)	NOTES
CU-1	5	TRANE	4TTR6060	52.5	45.5	95/63	SELECTED BY MFG.	80°/63°	32	50	208-230/1/60	16	R-410A	277	1 2 3 4 5 6
CU-2	3	TRANE	4TTR6036	31.9	29.6	95/63	SELECTED BY MFG.	80°/63°	18	30	208-230/1/60	16	R-410A	212	1 2 3 4 5 6

1. INSTALL UNIT PER MANUFACTURER'S WRITTEN DIRECTIONS. SLEEVE PIPING PENETRATIONS THROUGH EXTERIOR WALL, SEAL WATERTIGHT AND PROVIDE ESCUTCHEONS.
2. UNIT SHALL BE PROVIDED WITH PROGRAMMABLE THERMOSTATS.
3. PROVIDE 10-YEAR COMPRESSOR WARRANTY AND 5-YEAR FOR OTHER COMPONENTS.
4. PROVIDE UNIT COMPLETE WITH ALL NECESSARY DISCONNECTS, OVERLOADS AND CONTROL COMPONENTS.
5. SIZE AND INSTALL ALL REFRIGERANT PIPING PER MFG'RS. INSTRUCTIONS.
6. PROVIDE LOW AMBIENT CONTROL KIT FOR OPERATION DOWN TO 30°F.

F – FURNACE SCHEDULE

MARK	NOMINAL TONS	MFG'R	MODEL #	ORIENTATION	CFM	OSA	E.S.P. ("W.G.)	HEATING CAPACITY INPUT	HEATING CAPACITY OUTPUT	VENT SIZE	VENTING TYPE	FUEL	Min. A.F.U.E.	ELECTRICAL DATA H.P.	ELECTRICAL DATA V/Ø/Hz	FILTER TYPE	WEIGHT W/O COIL	NOTES
F-1	5	TRANE	TUC1D100	HORIZONTAL	2000	156	0.50	100,000	93,000	2"	2-PIPE SEALED	NAT. GAS	92.1%	3/4	115/1/60	DISPOSABLE	193	1 2 3
F-2	3	TRANE	TUC1B080	HORIZONTAL	1200	98	0.50	80,000	74,000	2"	2-PIPE SEALED	NAT. GAS	92.1%	1/3	115/1/60	DISPOSABLE	148	1 2 3

1. INSTALL WITH CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.
2. SIZE AND INSTALL 2 PIPE VENT PIPING PER MANUFACTURER'S INSTRUCTIONS FOR ACTUAL INSTALLED LENGTHS. PROVIDE CONCENTRIC ROOF TERMINATION AND MAINTAIN MINIMUM 12" CLEARENCE ABOVE ANTICIPATED SNOW LEVEL.
3. PROVIDE LEFT OR RIGHT CONNECTIONS AS REQUIRED FOR ACCESS IN MECHANICAL ROOMS.

UH – UNIT HEATER SCHEDULE

EQUIP. NO.	MANUFACTURER	MODEL NO.	SERVICE/ LOCATION	BLOWER CFM	BLOWER ESP	BLOWER MIN. THROW	MOTOR HP	MOTOR VOLTS/ PHASE	HEATER FUEL	HEATER MAX. INPUT MBH	HEATER MIN. OUTPUT MBH	FLUE (DIA.)	WT. (LBS)	REMARKS
1	REZNOR	F-100	SUITE B	1250	0	48'	1/30	120/1	NAT. GAS	100,000	80,000	6" OVAL	97	1 2 3
2	REZNOR	F-100	SUITE B	1250	0	48'	1/30	120/1	NAT. GAS	100,000	80,000	6" OVAL	97	1 2 3
3	REZNOR	F-100	FUTURE SUITES	1250	0	48'	1/30	120/1	NAT. GAS	100,000	80,000	6" OVAL	97	1 2 3

1. PROVIDE UNIT HEATER WITH LOW VOLTAGE THERMOSTAT WITH INSULATED SUB-BASE, W/ LOCKING COVER.
2. PROVIDE UNIT WITH ELECTRONIC SPARK IGNITION.
3. PROVIDE UNIT WITH 2-POINT SUSPENSION KIT.

EF – EXHAUST FAN SCHEDULE

MARK	SERVES	MANUF.	MODEL	CFM	E.S.P. (in. wg)	MOTOR HP OR WATTS	MOTOR V/PH	DRIVE	SONES	WEIGHT LBS	REMARKS
1	RESTROOM	GREENHECK	SP-B90	75	.125	54 WATTS	120/1	DIRECT	2.0	10	1 2

1. UNIT TO OPERATE VIA WALL SWITCH.
2. PROVIDE #WC-6 WALL DISCHARGE (OFFICE) OR #EL-10x3 SOFFIT DISCHARGE (COMMON RR) PER PLANS

EH – ELECTRIC HEATER SCHEDULE

EQUIP. NO.	MANUFACTURER	MODEL NO.	TYPE	SERVICE/ LOCATION	BLOWER CFM	HEATER KW	VOLTS/ PHASE	AMPS	REMARKS
1	QMARK	QFG15122M	RECESSED WALL HEATER	RISER ROOM	150	1.5	120/1	12.5	1

1. INTEGRAL THERMOSTAT.

GRILLES/REGISTERS/DIFFUSERS SCHEDULE

MARK	DESCRIPTION	MODULE SIZE	TYPE	OBD	FRAME	MATERIAL	FINISH	MANUF.	MODEL	REMARKS
CD-1	SUPPLY DIFFUSER	24x24	SQUARE CEILING	NO	T-BAR	STEEL	WHITE	TITUS	TMS	6ø NECK
CD-2	SUPPLY DIFFUSER	24x24	SQUARE CEILING	NO	T-BAR	STEEL	WHITE	TITUS	TMS	8ø NECK
CD-3	SUPPLY DIFFUSER	24x24	SQUARE CEILING	NO	T-BAR	STEEL	WHITE	TITUS	TMS	10ø NECK
CD-4	SUPPLY DIFFUSER	9x9	SQUARE LOUVERED	NO	SURFACE	STEEL	WHITE	TITUS	TDC	6ø NECK
EG-1	RETURN GRILLE	8x8	SINGLE DFL	NO	SURFACE	ALUMINUM	WHITE	TITUS	350FL	NECK SIZE PER PLAN
RG-1	RETURN GRILLE	22x10	SINGLE DFL	NO	T-BAR	STEEL	WHITE	TITUS	350RL	NECK SIZE PER PLAN
RG-2	RETURN GRILLE	22x22	SINGLE DFL	NO	T-BAR	STEEL	WHITE	TITUS	350RL	NECK SIZE PER PLAN
SG-1	SIDEWALL SUPPLY GRILLE	12x6	DOUBLE DFLCT.	NO	SURFACE	STEEL	WHITE	TITUS	300RL	NECK SIZE PER PLAN

NOTES:
1. NECK SIZE SHOWN ON PLANS AND CORRESPONDS TO DUCT CONNECTION SIZE.
2. CONTRACTOR SHALL PROVIDE SQUARE TO ROUND ADAPTERS AS REQUIRED FOR INSTALLATION.
3. MOUNTING HEIGHT OF GRILLES AND EXACT LOCATION OF ALL DIFFUSERS TO FIELD COORDINATED AND APPROVED BY OWNER.
4. VERIFY MAKE, MODEL AND COLOR OF ALL DEVICES WITH OWNER.

REVISIONS	BY

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Registered Professional Engineer
33491
WILLIAM MARK ODELL
Date Signed 09/27/21
ARIZONA U.S.A.

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Mechanical Schedules
PROJECT: JSC Contracting Building A, 6601 Inter Cal Way, Prescott, AZ 86301
APN: 103-50-054B & 103-50-054C

DRAWN BY
CHECKED BY
DATE October 22nd, 2020
JOB NO. 759
SHEET
M3.0

OSE Design Group, LLC Consulting Engineers
611 West Delano Ave, Prescott, AZ 86301, (602) 499.0001
Project #20083
10922 N. 153rd Ln., Surprise, AZ 85379, (623) 444-5143

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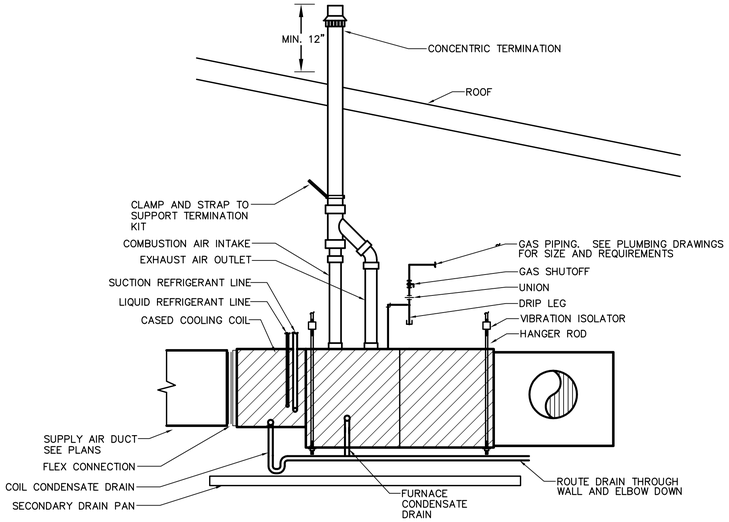
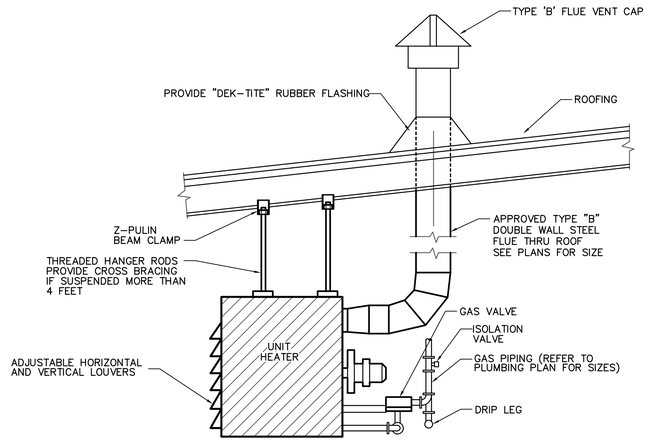


HORIZONTAL FAN COIL DETAIL

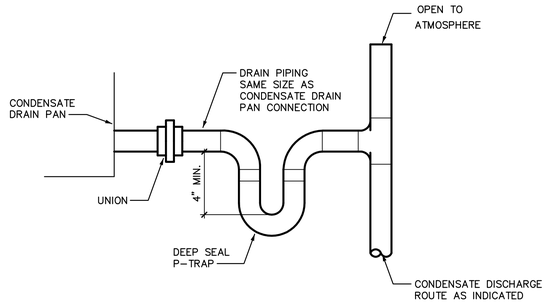
NOT TO SCALE

6 / M4.0



GAS FIRED UNIT HEATER

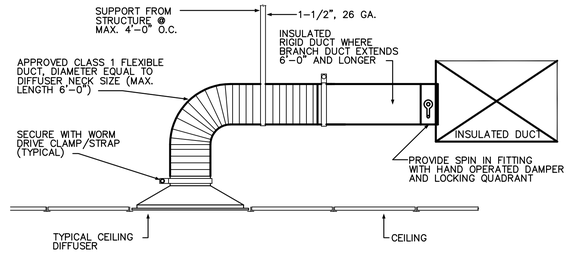
4 / M4.0



CONDENSATE PIPING AT UNIT DETAIL

NOT TO SCALE

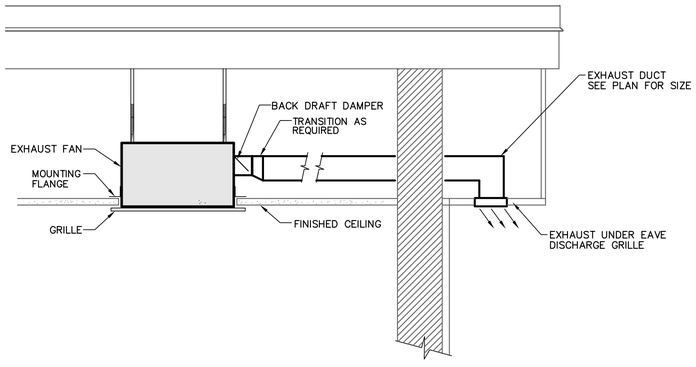
1 / M4.0



BRANCH DUCT TAKE-OFF DETAIL

NOT TO SCALE

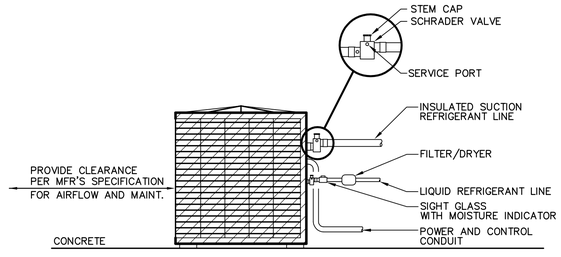
2 / M4.0



CEILING EXHAUST FAN DETAIL

NOT TO SCALE

5 / M4.0



CONDENSING UNIT DETAIL

NOT TO SCALE

3 / M4.0

OSE Design Group, LLC Consulting Engineers
611 West Delano Ave Prescott, AZ 86301 (602) 499.0001
Project #20083
10922 N. 153rd Ln. Surprise, AZ 85379 (623) 444-8143

REVISIONS	BY

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W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Mechanical Details

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY	
CHECKED BY	
DATE	October 22nd, 2020
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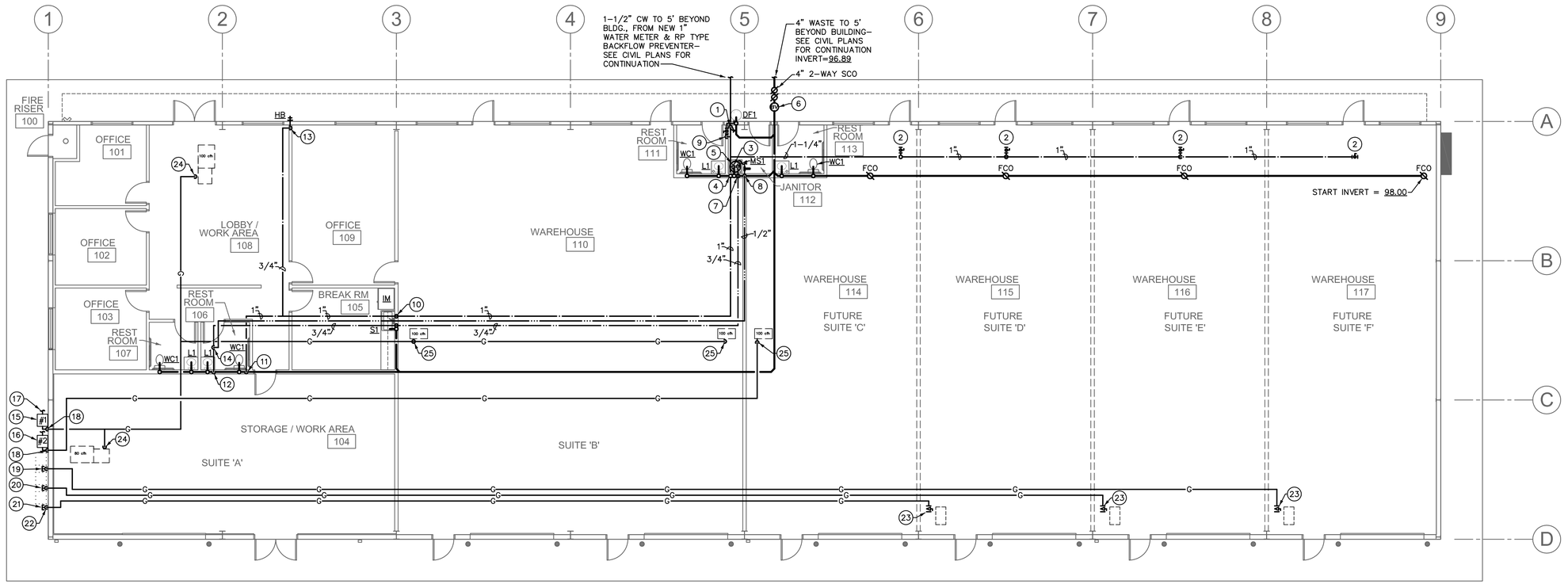


A1 Plumbing Plan

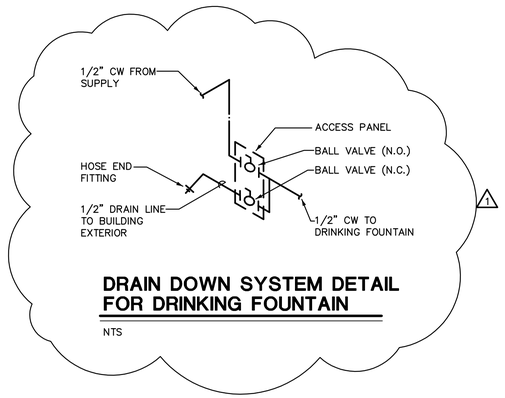
Scale: 1/8"=1'-0" Plan North

KEYNOTES:

1. 1-1/2" CW RISE FROM BELOW GRADE TO ROUTE AT CEILING. PROVIDE BALL VALVE (BUILDING SHUTOFF) ON RISER AT +6" A.F.F.; PROVIDE PRESSURE REDUCING VALVE (PRV) SET AT 80 PSI ON RISER AT +12" A.F.F.
2. PROVIDE 1" CAPPED CW STUBOUT AT CEILING FOR FUTURE TENANT IMPROVEMENT.
3. 3/4" H & CW DOWN TO WATER HEATER.
4. 1" CW DOWN TO 1" HEADER, WITH 1/2" TO MOP SINK, 1/2" TO EACH LAV & 1/2" TO EACH WC.
5. ELECTRIC WATER HEATER MOUNTED ON SHELF ABOVE MOP SINK- SEE DETAIL & SCHEDULE, SHEET P2.1. PROVIDE FULL SIZE P & T RELIEF DRAIN LINE, TERMINATE AT +2" ABOVE MOP SINK RIM WITH 90° ELBOW DOWN.
6. PROVIDE BACKWATER VALVE TO COMPLY WITH CITY OF PRESCOTT REQUIREMENTS. PROVIDE TRAFFIC RATED COVER.
7. 3/4" CW DOWN TO 3/4" HEADER, WITH 1/2" TO MOP SINK & 1/2" TO EACH LAV.
8. 1/2" HWR DOWN TO RECIRC. PUMP, SEE WATER HEATER DETAIL FOR PUMP SPEC. & FOR CONTINUATION OF HWR LINE.
9. 1/2" CW DOWN TO DRAIN-DOWN SYSTEM IN WALL WITH ACCESS PANEL, WITH 1/2" CW OUT OF DRAIN-DOWN TO DRINKING FOUNTAIN. SEE DETAIL, THIS SHEET.
10. 1/2" H & CW DOWN TO SINK. TEE OFF CW RISER WITH 1/2" TO ICE MAKER BOX.
11. 1" CW DOWN TO 1" HEADER, WITH 1/2" TO EACH WC & 1/2" TO EACH LAV.
12. 3/4" CW DOWN TO 3/4" HEADER, WITH 1/2" TO EACH LAV.
13. 3/4" CW DOWN TO NON FREEZE HOSE BIBB.
14. 1/2" HWR OFF TOP OF HW LINE, ROUTE ABOVE CEILING BACK TO RECIRC. PUMP AT WATER HEATER.
15. GAS METER #1 BY GAS COMPANY (372 CFH, 142' TOTAL DEV. LENGTH), SERVES SUITES A-B.
16. GAS METER #2 BY GAS COMPANY (100 CFH, 144' TOTAL DEV. LENGTH), SERVES SUITE C.
17. GAS SERVICE TO METER BY GAS COMPANY (TYPICAL OF 2).
18. GAS OUT OF METER, RISE ALONG EXT. WALL TO ENTER BLDG. AT CEILING.
19. PROVIDE 1" CAPPED GAS LINE AT LOCATION OF FUTURE METER FOR SUITE F (FUTURE GAS LOAD OF 75 MBH @ 200' TOTAL DEV/ LENGTH).
20. PROVIDE 1" CAPPED GAS LINE AT LOCATION OF FUTURE METER FOR SUITE E (FUTURE GAS LOAD OF 75 MBH @ 175' TOTAL DEV/ LENGTH).
21. PROVIDE 1" CAPPED GAS LINE AT LOCATION OF FUTURE METER FOR SUITE D (FUTURE GAS LOAD OF 75 MBH @ 148' TOTAL DEV/ LENGTH).
22. RISE WITH 1" GAS LINE FROM STUBOUT, ALONG EXTERIOR WALL TO ENTER BLDG. AT CEILING (TYPICAL OF 3).
23. PROVIDE 1" VALVED STUBOUT AT CEILING FOR FUTURE UNIT HEATER.
24. VALVED GAS CONNECTION TO FURNACE.
25. VALVED GAS CONNECTION TO UNIT HEATER.

NOTE:
SEE WASTE & VENT SCHEMATICS, SHEET P3.0 FOR COMPLETE WASTE & VENT PIPE SIZING.

SEE GAS PIPING DIAGRAMS, SHEET P3.0 FOR COMPLETE GAS PIPE SIZING.



DRAIN DOWN SYSTEM DETAIL FOR DRINKING FOUNTAIN

NTS

NOTE:
SLOPE ALL HORIZONTAL WASTE PIPING AS FOLLOWS:

FOR PIPE SIZES UP THROUGH 3", SLOPE AT 1/4" PER FT.

FOR PIPE SIZES 4" & ABOVE, SLOPE AT 1/8" PER FT.

PLUMBING NOTES:

1. WATER PIPING LOCATED IN EXTERIOR WALLS SHALL BE INSTALLED ON THE BUILDING INTERIOR SIDE OF THE BLDG. INSULATION.
2. EXTERIOR WATER PIPING SHALL BE INSTALLED BELOW FROST LINE.

PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
	W	DRAIN OR WASTE PIPING
	V	VENT PIPING
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
G	G	NATURAL GAS PIPING
	BV	BALL VALVE
Ø	FCO	FLOOR CLEANOUT
Ø	SCO	SURFACE CLEANOUT
	WCO	WALL CLEANOUT
	VTR	VENT THRU ROOF

OSE Design Group, LLC Consulting Engineers
611 West Delano Ave Prescott, AZ 86301 (602) 499.0001
Project #20083
10922 N. 153rd Ln. Surprise, AZ 85379 (623) 444-6143

REVISIONS	BY
06-25-21 CITY COMMENTS	JWS

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Registered Professional Engineer
33491
WILLIAM MARK ODELL
Date Signed 06/30/21
ARIZONA U.S.A.

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Plumbing Floor Plan

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY	
CHECKED BY	
DATE	October 22nd, 2020
JOB NO.	759
SHEET	P1.0

Oct 22, 2020 - 2:26pm

PLUMBING SPECIFICATIONS:

1. GENERAL

1..1 Scope: Work under this section includes coordinating and furnishing all labor and material necessary to install a complete plumbing system as shown and specified and in accordance with the codes. Contractor shall pay for all permits, meters, fees, city inspections, legal notices, etc., as required.

1..2 Submittals: Within 15 days after award of contract, submit 8 copies of all items.

1..3 Record Drawings: Provide a set to the Architect at completion of project.

1..4 Instructions: Provide maintenance manual and instruct Owner in the proper operation and maintenance of the equipment.

1..5 Guarantee: One year on labor, material and equipment.

2. PRODUCTS

2..1 Piping:

2..1.1 Water Lines:

2..1.1.1 Copper: Type "L" hard drawn, conforming to ASTM B88, for all water pipe not set under concrete or in the ground.

2..1.1.2 Copper: Type "K" soft drawn, conforming to ASTM B88, for water pipe set in or under concrete or in the ground. Wrap lines below concrete floors with 20 mils of polykon tape.

2..1.1.3 Fittings: Wrought copper conforming to ANSI B16.22.

2..1.1.4 Plastic: If permitted by Administrative Authority, IAPMO approved, NSF-61 listed, crosslinked polyethylene (PEX) tubing, equal to Wirsbo "AQUAPEX" system is acceptable for potable water piping.

2..1.2 Sanitary Waste and Vent Lines:

2..1.2.1 Cast Iron conforming to CISPI Standard 301-95 and ASTM A-888 for all no-hub pipe and fittings installed above and below grade.

2..1.2.2 Galvanized Iron: Standard weight, Schedule 40 galvanized iron conforming to ASTM A-120 for all vent lines 2-1/2" or smaller.

2..1.2.3 Fittings (Waste and Vent System, no-hub cast iron): No-hub cast iron drainage pattern fittings conforming to CISPI #301-95.

2..1.2.4 Fittings (Waste and Vent, galvanized steel): Threaded cast iron fittings conforming to ANSI B16.4.

2..1.2.5 Couplings (Waste and Vent, above and below grade): Double band, stainless steel couplings conforming to CISPI 310-95, with neoprene gasket conforming to ASTM Standard C564 (NOTE: Screened stainless shield is not approved).

2..1.2.6 Plastic: Subject to Owner approval, PVC piping conforming to ASTM D-2665-88 is acceptable for sanitary waste piping installed below grade or slab. Fittings: Drainage fittings to match pipe.

2..1.3 Gas Piping:

2..1.3.1 Gas Piping, interior above slab: Schedule 40 black steel conforming to ASTM A53. Fittings shall conform to the following:

2..1.3.1.1 Pipe 1-1/2" and Smaller: 150 psi, black malleable iron, conforming to ANSI B16.3, 150 psi SWP.

2..1.3.1.2 Pipe 2" and Larger: Black steel seamless welding fittings conforming to ANSI B16.9 and USAS B16.25, 150 psi SWP.

2..1.3.1.3 Unions: Black malleable iron screwed connections, ground iron-to-bronze seat, conforming to ASTM A47, 250 psi SWP.

2..1.3.1.4 Flanges: Black forged steel with weld neck flanges conforming to ANSI B16.5, 150 psi SWP.

2..1.3.2 Gas Piping, above grade or slab, exterior: Schedule 40 galvanized steel, conforming to ASTM A53. Fittings: 150# galvanized steel screwed fittings.

2..2 Pipe Hangers and Supports: Fee & Mason Figure 103 clevis hanger for insulated pipe and Figure 104 clevis hanger for cast iron pipe. Install #500 Trisolators on uninsulated copper lines at all hangers and wall penetrations.

2..3 Pipe Insulation: Use fiberglass premolded insulation with all-service jacket, minimum density of 3.5 pcf. Provide an additional 8-ounce canvas jacket with Arabol finish around all exposed pipe insulation. Cover fittings and valves (except unions) with insulation cement worked on in two applications to a smooth, hard surface, flush with pipe covering. Provide 8" long, 20 gauge, galvanized iron metal insulation guards at locations of hanger rods and supports. Provide 12" long rigid insulation blocks on bottom half of pipe 1" and larger at hangers. Insulation wall thickness shall conform to the following schedule:

Domestic Hot Water and Hot Water Recirculating Lines:

Mains and horizontal branches – 1" thickness.
Drops in walls and partitions – 1/2" thickness.

2..4 Valves:

2..4.1 Gate Valves: Milwaukee 115, 125#, bronze body, solder type gate valve with nonrising stem for all lines up through 3" size.

2..4.2 Check Valves: Milwaukee #1509, 125#, bronze body, solder joint check valve with horizontal bronze disc for all valves up to 2" size. Milwaukee #F2974, 125#, iron body, bronze trimmed, flanged horizontal check valve for all valves larger than 2" size.

2..4.3 Shutoff Valve: Milwaukee BB1-350 bronze body, solder joint valve for all lines up through

2..4.4 Gas Valves, 3/4" and Smaller: Milwaukee BB-1-102.

2..4.5 Gas Valves, 1" to 1-1/2": Rockwell-Nordstrom #142 with #555 lubricant for natural gas service.

2..4.6 Gas Valves, 2" and Larger: Rockwell-Nordstrom #143 with #555 lubricant for natural gas service.

2..5 Cleanouts:

2..5.1 Concrete and Tile Floors: J.R. Smith 4023, with scoriated nickel-bronze top.

2..5.2 Cleanouts (exposed vertical piping): J.R. Smith 4512 cast iron branch cleanout tee with bronze plug.

2..5.3 Interior Finished Walls: J.R. Smith 4532.

2..5.4 Exterior Surface Cleanouts: J.R. Smith 4253. Provide 18" x 18" x 6" concrete pad at landscape areas; provide concrete ring below grade at asphalt areas.

2..5.5 Provide all cleanouts with heavy threaded bronze plugs.

2..6 Acceptable Manufacturers: The following is a list of manufacturers whose equipment is acceptable as to manufacturer, subject to conformance with all drawings, specifications and addenda items:

Plumbing Fixtures: American Standard, Kohler, Eljer.

Stainless Steel Sinks: Just, Elkay, Moen.

Mop Sinks: Fiat, Swan, Mustee.

Electric Water Heaters: Rheem, A.O. Smith, American Mor-Flo.

Valves: Crane, Kennedy, Stockham, Grinnell, Milwaukee, Wolverine.

Hose Bibbs: Acorn, Chicago, Woodford.

P-Traps: Crane. Kohler, Eljer, Frost, McGuire.

Supply Fittings: Chicago, American Standard, Eljer, Speakman, Kohler.

Supply Stops: Eastman, Kohler, Eljer, Brasscraft, McGuire.

Closet Seats: Sperzel, Olsonite, Beneke, Bemis.

Drains and Cleanouts: J. R. Smith, Zurn, Josam, Wade, Western.

Hangers: Grinnell, Fee & Mason, Elcen, Kin-Line, F & S, B-Line, Michigan.

2.7 Plumbing Fixtures: Use polished chrome-plated, adjustable brass P-traps with wall escutcheons at all exposed locations. Use polished chrome-plated faucets with removable trim, brass body and brass handles. Fixtures and supply fitting shall be of one manufacturer. Provide diaphragm type, polished chrome-plated flush valves with integral vacuum breakers and screwdriver stops. Provide fixture stops or valves ahead of all equipment or fixtures. After fixtures are set in place and secured to walls, caulk all around between fixtures and wall with either Dow Corning #780 or G.E. Construction Sealant white silicone caulking compound. See Plumbing Fixture Specification Schedule for complete fixture specifications.

3. EXECUTION

3..1 Tests and Inspections:

3..1.1 All work to be tested and approved before covering as directed by Architect. Remake all leaking joints.

3..1.2 Water System: 125 psi hydrostatic pressure held for four hours.

3..1.3 Sanitary Waste and Vent System: Fill with water to highest point in the system and let stand without loss for two hours.

3..1.4 Gas System: Hold at 50 psi pneumatic for four hours with no pressure loss.

3..1.5 Sterilization (Domestic Water System): After tests have been completed, the entire domestic water distribution system shall be thoroughly flushed with water until all entrained dirt and mud have been removed, and shall be sterilized with solutions of either liquid chlorine conforming to Federal Specification BB-B-120 or hypochlorite conforming to Fed. Spec. O-C-114, Type II, Grade G, or Fed. Spec. O-S-602, Grade A or B. The chlorinating material shall provide a dosage of not less than 50 parts per million and shall be introduced into the system in an approved manner, and retained in the system for 8 hours before flushing.

3..2 Flashing, Sleeves and Escutcheon Plates:

3..2.1 Flashing: Supply flashing for all vent pipe and other types of piping through roof to be installed with roofing. Flash vents with Stoneman S1300-4 or with sheet lead weighing not less than 4 pounds per square foot or equal. Extend flashing into roofing at least 10" from vent and turn flashing over and down into vent opening.

3..2.2 Sleeves: Use 20 gauge galvanized steel sleeves around pipes passing through masonry walls and concrete slabs.

3..2.3 Escutcheon Plates: Install cast brass split ring with setscrew at all locations where exposed pipes pass through walls, floors and/or ceilings. Provide polished chrome-plated escutcheons in finished rooms, all others polished brass.

3..3 Electrical: Wiring by Electrical Contractor.

PLUMBING FIXTURE SPECIFICATIONS

	DESCRIPTION
WC1	WATER CLOSET (ADA COMPLIANT): FIXTURE: AMERICAN STANDARD 2386.012, 1.6 GALLONS PER FLUSH, 16-1/2" HIGH RIM, FLOOR MOUNT, VITREOUS CHINA, ELONGATED BOWL. SEAT: CHURCH 9500 WHITE OPEN FRONT SEAT WITH CONCEALED CHECK HINGE & WITHOUT COVER. SUPPLIES: EASTMAN C5CR-20-LK, 1/2" x 3/8" ANGLE STOP WITH FLEXIBLE TUBE RISER.
L1	LAVATORY (WALL HUNG- ADA COMPLIANT): FIXTURE: AMERICAN STANDARD, MODEL No. 0355.012, WALL HUNG, 20" x 18" VITREOUS CHINA, FRONT OVERFLOW. PROVIDE CAST-IRON WALL HANGER BOLTED TO WALL. FAUCET: MOEN 8400 SINGLE LEVER DECK MOUNTED FAUCET WITH BLADE TYPE ADA HANDLE. SUPPLIES: EASTMAN C5RC-15-LK, ANGLE STOPS WITH FLEXIBLE TUBE RISERS. WASTE: McGUIRE 155WC OFFSET WHEELCHAIR LAVATORY STRAINER WITH GRID DRAIN, CAST BRASS ELBOW AND OFFSET TAILPIECE. TRAP: McGUIRE 8902, 1-1/4" x 1-1/2" CAST BRASS P TRAP. INSULATE EXPOSED WATER AND WASTE PIPING WITH TRUEBRO LAV-GUARD INSULATION KIT, MODEL 102, WITH ACCESSORY #105.
MS1	MOP SINK: FIXTURE: FIAT MODEL MSB-2424, 24" x 24" x 10", FLOOR MOUNTED, MOLDED STONE WITH INTEGRAL STAINLESS STEEL STRAINER EXTENSION. FAUCET: CHICAGO FAUCET 897 CHROME-PLATED SUPPLY FITTING WITH INTEGRAL STOPS, VACUUM BREAKER, 3/4" HOSE THREAD, FLEXIBLE 3/4" RUBBER HOSE AND HOSE BRACKET; MOP HANGER; SILICONE SEALANT INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. TRAP: PROVIDE 2" TRAP.
S-1	SINK ADA COMPLIANT): FIXTURE: JUST MODEL No. SL-ADA-2125-A-GR, 21" x 25" x 5-1/2" DEEP, 18 GAUGE TYPE 304 STAINLESS STEEL, ADA COMPLIANT SELF RIMMING SINGLE COMPARTMENT SINK WITH 3-HOLE PUNCH. FAUCET: AMERICAN STANDARD "RELIANT+" MODEL 4205.000.F15, POLISHED CHROME PLATED DECK MOUNT SINGLE LEVER FAUCET WITH SWING SPOUT, INTEGRAL HOT LIMIT SAFETY STOP. SUPPLIES: EASTMAN C5RC-20-LK, 1/2" x 3/8" ANGLE STOPS WITH FLEXIBLE TUBE RISERS. STRAINER: JUST J-35 BASKET STRAINER WITH 1-1/2" C.P. TAILPIECE. TRAP: McGUIRE 8912, 1-1/2" x 1-1/2" CAST BRASS P-TRAP WITH CLEANOUT PLUG AND ESCUTCHEON. INSULATE ALL EXPOSED UNDERCOUNTER WATER AND WASTE PIPING WITH PLUMBEREX 2003W "HANDY-SHIELD MAXX" INSULATION COMPLYING WITH ASTM E 84-07/UL 723 CLASS A AND BE LISTED WITH AND MEET UPC/IAPMO. INSULATION MATERIAL SHALL BE U/V INHIBITED WITH ANTIMICROBIAL AND ANTIFUGAL PROPERTIES.
HB	HOSE BIBB (FREEZE PROOF): WOODFORD MODEL No. MB65, CHROME PLATED FINISH, 3/4" HOSE CONNECTION WITH INTEGRAL VACUUM BREAKER, SELF-DRAINING, LOOSE TEE OPERATOR, ENCLOSED IN A FLUSH MOUNTED 14 GAUGE STAINLESS STEEL WALL BOX WITH LOCKABLE COVER.
WH-1	ELECTRIC WATER HEATER: PPROVIDE UL LISTED ELECTRIC WATER HEATER OF SIZE, CAPACITY AND MAKE AS SCHEDULED. HEATER SHALL BE WARRANTED FOR A MINIMUM OF 5 FULL YEARS AFTER FINAL ACCEPTANCE OF THE BUILDING. FURNISH HEATER WITH THE FOLLOWING ACCESSORIES: 1. ASME COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE RATED IN EXCESS OF HEATER INPUT. RUN FULL SIZE DRAIN TO TERMINATE AS SHOWN ON DRAWINGS. 2. AUTOMATIC THERMOSTAT ACTUATED CONTROLS WITH 100% SHUTOFF. 3. HIGH-LIMIT CONTROLS. 4. TANK DRAIN. 5. BRASS NIPPLES FOR PIPE CONNECTIONS. 6. HEATER SHALL BE FACTORY INSULATED AND SHEET METAL JACKETED.
IM	ICE MAKER BOX: SPECIALTY PRODUCTS MODEL P4129, WITH ADJUSTABLE FRAME AND VALVE.

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFAC.	MODEL	STORAGE CAPACITY IN GALS.	KW INPUT	VOLTAGE/ PHASE	GALLON PER HR. REC. AT 100° F T.R.	WATER OUTLET TEMP °F	REMARKS
WH-1	RHEEM	EGSP15	15	1.5	120/1	6.2	140	

FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	TRAP SIZE	WASTE	VENT	COLD WATER	HOT WATER	REMARKS
WC-1	WATER CLOSET (ADA)	INT.	3"	2"	1/2"	–	FLUSH TANK, 1.6 GPF, FLOOR MTD.
L-1	LAVATORY (ADA)	1-1/4" x 1-1/2"	2"	1-1/2"	1/2"	1/2"	WALL MOUNTED
S-1	SINK (ADA)	2"	2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT
MS-1	MOP SINK	2"	2"	1-1/2"	1/2"	1/2"	FLOOR TYPE
HB-1	HOSE BIBB	–	–	–	3/4"	–	NON-FREEZE TYPE W/ VACUUM BREAKER

WATER CALCULATION:

FIXTURE UNITS = 35 FU / 23 GPM

PIPE LENGTH TAP TO METER	10 FT.
PIPE LENGTH METER TO LAST FIXTURE	242 FT.
VERTICAL PIPE LENGTH TO HIGHEST FIXTURE	5 FT.
TOTAL PIPE LENGTH	257 FT.
FITTING LOSS (10%)	26 FT.
TOTAL DEVELOPED LENGTH	283 FT.

WATER PIPE SIZING CRITERIA

STREET PRESSURE	65.00 PSI*
WATER METER LOSS (1")	8.50 PSI
BACKFLOW PREVENTER LOSS (1")	12.00 PSI
STATIC LOSS (5' x 0.43)	2.20 PSI
FIXTURE LOSS	20.00 PSI
PRESSURE AVAILABLE FOR PIPING	22.30 PSI

22.30 PSI / 283 FEET x 100 = 7.8 PSI MAXIMUM ALLOWABLE DROP PER 100 FEET PIPE LENGTH

*ASSUMED WATER PRESSURE- CONTRACTOR SHALL VERIFY ACTUAL WATER PRESSURE PRIOR TO CONSTRUCTION. IF PRESSURE IS LESS THAN 65 PSI, CONTRACTOR SHALL CONTACT ENGINEER FOR PIPE SIZING EVALUATION. IF PRESSURE EXCEEDS 80 PSI, A PRESSURE REDUCING VALVE SHALL BE PROVIDED. PIPING VELOCITY NOT TO EXCEED 8 FEET PER SECOND.

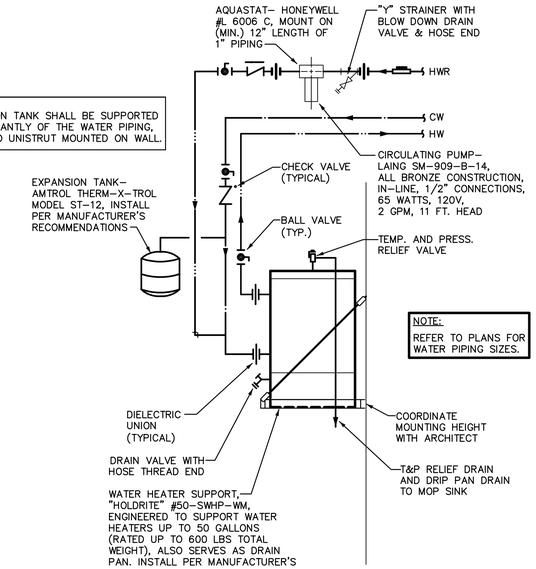
BRANCH PIPE SIZING CHART FOR 7.8 PSI LOSS

PIPE SIZE	G.P.M.	F.U.(TANK)
1/2"	3	3
3/4"	8	11
1"	17	25
1-1/4"	30	54

FIXTURE UNIT CALCULATIONS

DESCRIPTION	QTY	F.U. EACH		TOTAL F.U.	
		WASTE	WATER	WASTE	WATER
WATER CLOSET (F.T.)	4	4	5	16	20
LAVATORY	4	1	2	4	8
MOP SINK	1	2	3	2	3
SINK	1	3	4	3	4
					35

NOTE:
EXPANSION TANK SHALL BE SUPPORTED INDEPENDANTLY OF THE WATER PIPING, STRAP TO UNISTRUT MOUNTED ON WALL.



WATER HEATER DETAIL

NTS

OSE Design Group, LLC
Consulting Engineers

611 West Datano Ave
Prescott, AZ 86301
(602) 499.0001

Project #20083

10922 N. 153rd Ln.
Surprise, AZ 85379
(623) 444-5143

Oct 22, 2020 - 2:26pm

REVISIONS	BY

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Registered Professional Engineer
33491
WILLIAM MARK ODELL
Date Signed 12/10/20
ARIZONA U.S.A.

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Plumbing Schedules

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY

CHECKED BY

DATE
October 22nd, 2020

JOB NO.
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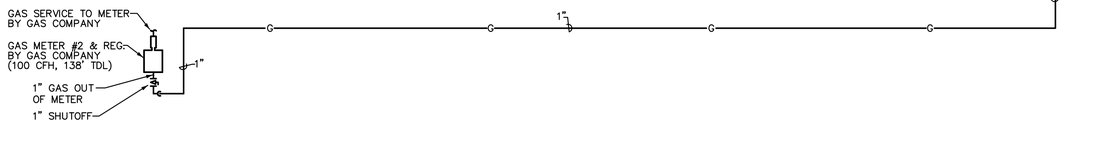
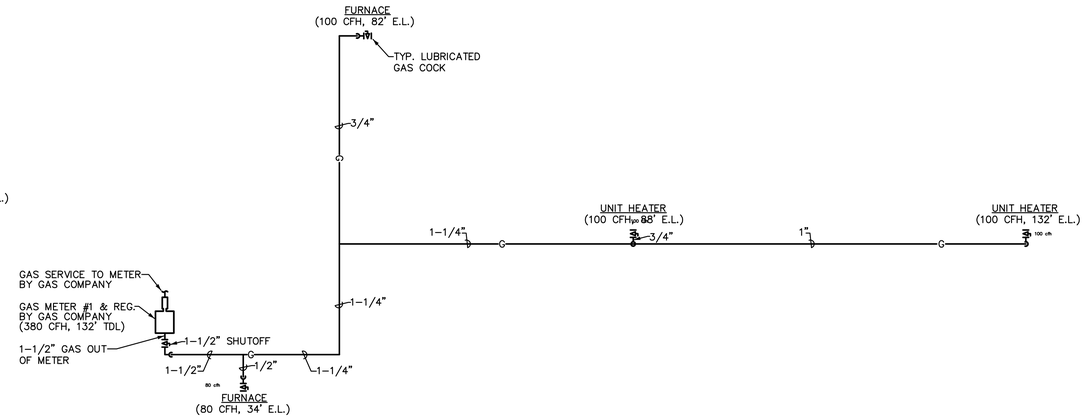


GAS PIPING DIAGRAM

NTS (METER #2 – SUITE B)

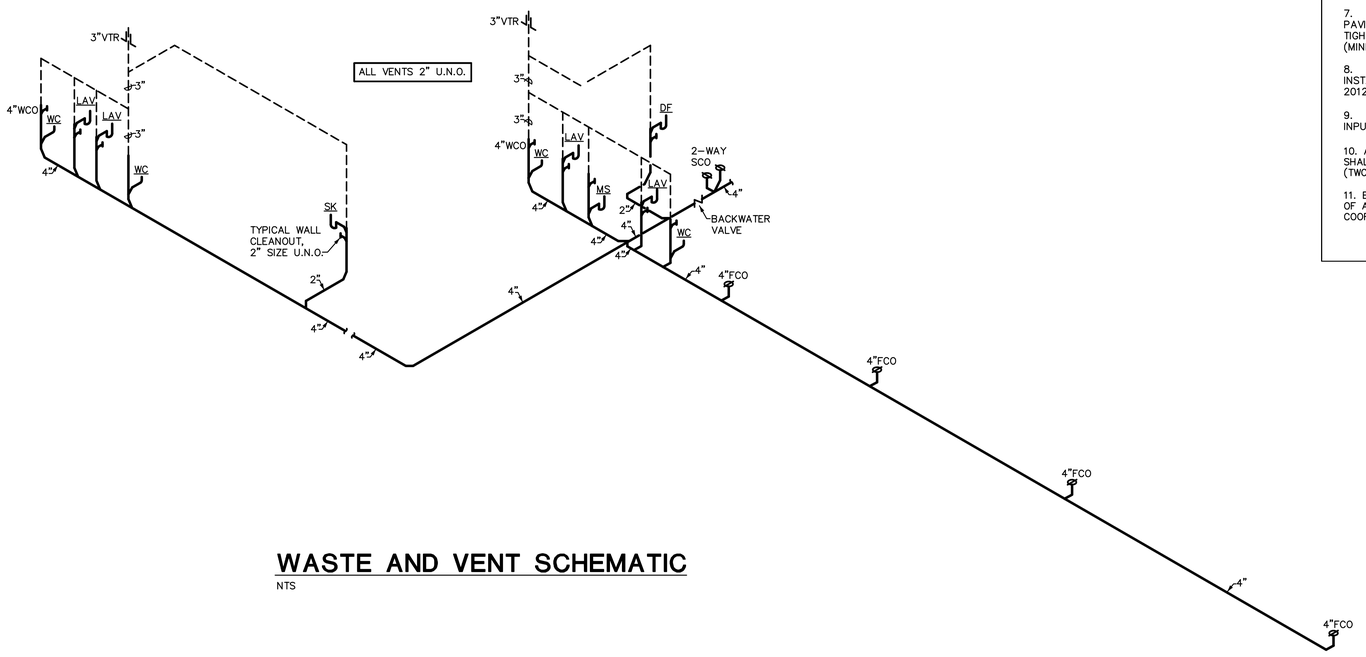


GAS PIPING DIAGRAM

NTS (METER #1 – SUITE A)

GAS PIPING NOTES:

1. MINIMUM DEPTH OF GAS PIPING TO BE 18" BELOW GRADE.
2. GAS PIPING SHALL NOT BE INSTALLED IN OR ON THE GROUND UNDER ANY BUILDING.
3. GAS PIPING SHALL NOT RUN IN HOLLOW CORE OF BLOCK.
4. PROVIDE SHUT–OFF COCK, UNION AND 6" LONG DIRT LEG WITH CAP AT EACH GAS LINE DROP TO APPLIANCE. DIRT LEG SHALL BE LOCATED DOWNSTREAM OF THE THE SHUT–OFF COCK.
5. ALL GAS USING EQUIPMENT TO BE NATURAL FUEL.
6. DO NOT USE FLEXIBLE PIPE CONNECTIONS TO EQUIPMENT.
7. ALL GAS PIPING UNDER ASPHALT OR CONCRETE PAVING ADJOINING BUILDING MUST BE SLEEVED IN GAS TIGHT PIPE (SCHEDULE 40 PVC PIPE), SLEEVE SIZE SHALL (MINIMUM) 2 PIPE SIZES LARGER THAN THE GAS PIPE.
8. ALL GAS PIPING, MATERIALS, VALVES, FITTINGS, INSTALLATION AND TESTING SHALL COMPLY WITH CHAP. 4, 2012 INTERNATIONAL FUEL GAS CODE.
9. VERIFY ALL GAS BTU/H INPUTS WITH ACTUAL BTU/H INPUT OF APPLIANCE SUPPLIED.
10. ALL GAS LINES INSTALLED THROUGH CMU WALLS, ETC., SHALL BE SLEEVED WITH STEEL PIPE A MINIMUM OF (2) (TWO) PIPE SIZES LARGER THAN THE GAS PIPE.
11. EXTERIOR GAS PIPING SHALL RECEIVE ONE COAT EACH OF A RUST AND WEATHER RESISTANT PRIMER AND TOP COAT. COORDINATE WITH ARCHITECT FOR COLOR.



WASTE AND VENT SCHEMATIC

NTS

OSE Design Group, LLC Consulting Engineers
611 West Delano Ave Prescott, AZ 86301 (602) 499.0001
Project #20083
10922 N. 153rd Ln. Surprise, AZ 85379 (623) 444-6143

REVISIONS	BY

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33491 WILLIAM MARK ODELL — Registered Professional Engineer — 12/31/2021 — ARIZONA U.S.A.

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Plumbing Schematics

PROJECT: JSC Contracting Building A, 6601 Inter Cal Way, Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

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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
- 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
- S_M — 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

Jul 01, 2021 - 11:51am

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

NOTE:

1.) ALL SUB–PANELS, SERVICE EQUIPMENT, AND EQUIPMENT DISCONNECTS SHALL BE PROVIDED WITH THE WORKING CLEARENCES REQUIRED BY THE LATEST ADOPTED NEC.

FAULT POINT PANEL 'LA'

$$f = \frac{1.732 \times 260' \times 53{,}011\ A}{12{,}843 \times 208V} = 8.93$$

$$M = \frac{1}{1 + 8.93} = .100$$

I_{sc} = 53,011A x .100 = 5,301 AMPS

1

SITE RELATED WORK

PRIOR TO COMMENSING WORK AND/OR SUBMITTING BASE BID, THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY HIMSELF TO EXISTING WORK RELATED CONDITIONS WITH REGARDS TO THE FOLLOWING:

1 TRENCH AND BACKFILL FOR CONDUITS PER UTILITY CO. REQUIREMENTS. (FIELD VERIFY)

2 TRANSFORMER MOUNTING PAD PER UTILITY CO. REQUIREMENTS.

3 PROVIDE SECONDARY AND/OR PRIMARY CONDUITS. (SEE ONE LINE DIAGRAM).

4 SERVICE ENTRANCE SECTION (S.E.S.). VERIFY PROPOSED EQUIPMENT WILL FIT THE SPACE ALLOTED PRIOR TO ORDERING AND/OR CONSTRUCTION.

5 P.V.C. TELEPHONE CONDUIT WITH PULL WIRE AND RIGID FACTORY STEEL BENDS PER TELEPHONE CO. REQUIREMENTS. (SIZE AS NOTED OR REQUIRED BY UTILITY VERIFY PRIOR TO INSTALLATION).

6 THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND COMPLIANCE WITH ALL UTILITY COMPANIES REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO ANY AND ALL ADDITIONAL COSTS FOR MATERIAL AND LABOR FOR WORK WHETHER SHOWN ON THE PLANS OR NOT. ACTUAL ROUTING, CONDUIT, TRENCH AND PAD REQUIREMENTS SHALL BE AS SPECIFIED BY UTILITY COMPANIES. VERIFY REQUIRMENTS WITH UTILITIES PRIOR TO INSTALLATION.

7 WHERE APPLICABLE, PROVIDE EQUIPMENT GROUNDING (BOND) CONDUCTOR FOR METALLIC PROCESSING AND FIRE SPRINKLER PIPING PER NEC 250–80 AND SIZED PER NEC 250–95 TABLE.

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 MIN.

OUTLET MOUNTING HEIGHTS PER AMERICAN DISABILITY ACT

ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE 2010 ADA SAD REQUIREMENTS FOR ALL SWITCHES. RECEPTACLES, TELE./DATA AND SIDE REACH CONTROL SWITCHES. ALL WALL CONTROLS, SWITCHES AND THERMOSTATS TO BE MOUNTED WITH TOP OF J–BOX AT 48" A.F.F. ALL ABOVE COUNTER CONTROLS, SWITCHES & OUTLETS TO BE MOUNTED WITH HORIZONTAL ORIENTATION WITH TOP OF J–BOX AT 44" A.F.F.. ALL WALL OUTLETS TO BE MOUNTED AT 15" A.F.F. TO BOTTOM OF J–BOX.

SPECIAL REQUIREMENTS PER: THE FAIR HOUSING ACT.

ALL RECEPTACLES AT RESTROOM LAVATORIES TO BE GFCI TYPE. ALL WALL CONTROLS, SWITCHES AND THERMOSTATS TO BE MOUNTED WITH TOP OF J–BOX AT 48" A.F.F. ALL ABOVE COUNTER CONTROLS, SWITCHES & OUTLETS TO BE MOUNTED WITH HORIZONTAL ORIENTATION WITH TOP OF J–BOX AT 44" A.F.F. ALL WALL OUTLETS TO BE MOUNTED AT 15" A.F.F. TO BOTTOM OF J–BOX.

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.

FIRE ALARM SYSTEM SPECIFICATION

A COMPLETE OPERATIONAL MANUAL/AUTOMATIC FIRE ALARM SYSTEM TO BE MONITORED AS DIRECTED BY OWNER SHALL BE FURNISHED AND INSTALLED, AS REQUIRED FOR THIS TYPE OF BUILDING IN ACCORDANCE WITH STATE AND/OR LOCAL CODE AND AS APPROVED BY THE CODE ENFORCING AUTHORITY HAVING JURISDICTION. THE FIRE ALARM CONTROL PANEL SHALL BE LOCATED AS DIRECTED BY THE ENFORCING AUTHORITY. (CONNECT TO CIRCUIT LA–15). FIRE ALARM CONTRACTOR SHALL PROVIDE SPEC'S., DRAWINGS OF DEVICE LOCATIONS AND CUT SHEETS OF DEVICES TO FIRE MARSHALL FOR APPROVAL PRIOR TO INSTALLATION.

ONE LINE GENERAL NOTES:

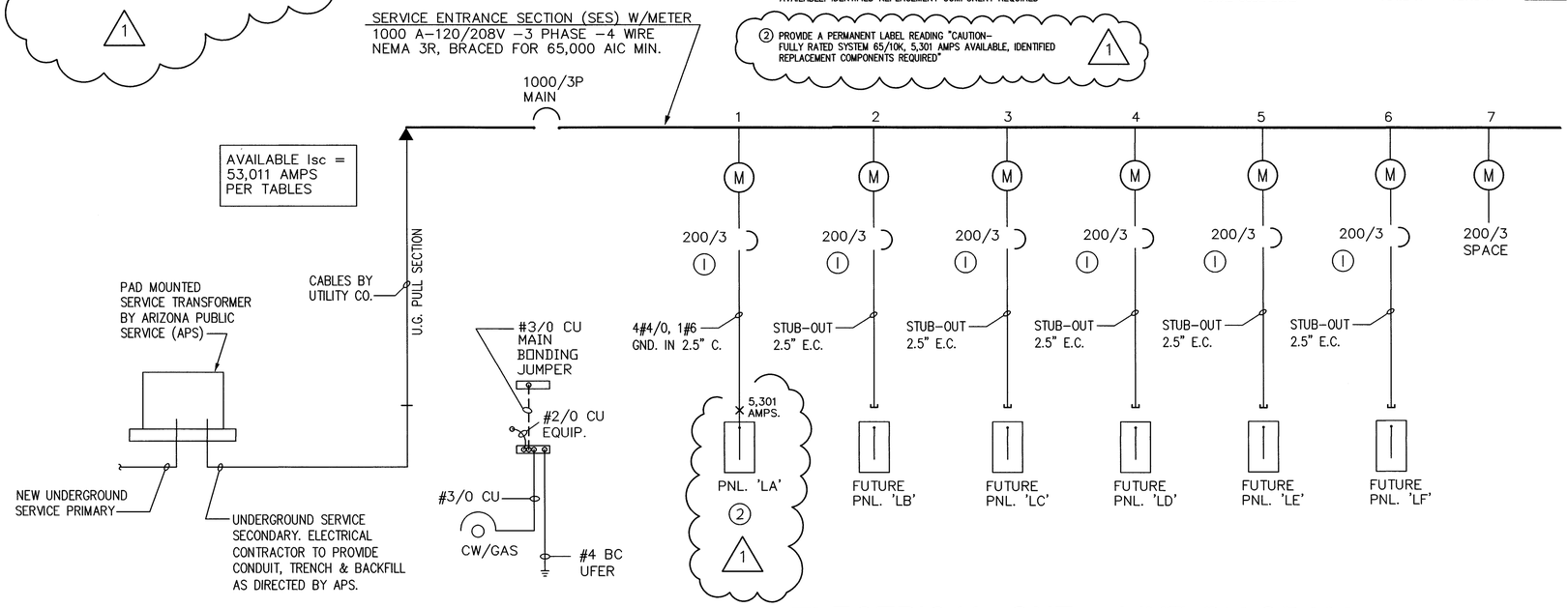
1. SYSTEM SHOWN IS A TWO TIER SERIES RATED SYSTEM 65/10K. MANUFACTURER SHALL PROVIDE A UL LISTED SYSTEM TO MATCH THIS RATING.
2. MOTOR SHORT CIRCUIT CONTRIBUTION IS LESS THAN 1% OF SYSTEM SHORT CIRCUIT AMPS.
3. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR

ONE LINE KEYNOTES:

1. PROVIDE A PERMANENT LABEL READING "THIS CIRCUIT FUSE IS PART OF A SERIES RATED SYSTEM WITH DOWNSTREAM PANELS 65/10K. 65,000 AMPS AVAILABLE. IDENTIFIED REPLACEMENT COMPONENT REQUIRED"
2. PROVIDE A PERMANENT LABEL READING "CAUTION– FULLY RATED SYSTEM 65/10K, 5,301 AMPS AVAILABLE, IDENTIFIED REPLACEMENT COMPONENTS REQUIRED"

ELEC. LOAD CALCULATIONS

		øA	øB	øC
PANEL 'LA'		79.2 A	102.3 A	116.0 A
PANEL 'LB'	(ESTIMATED)	125.0 A	125.0 A	125.0 A
PANEL 'LC'		125.0 A	125.0 A	125.0 A
PANEL 'LD'		125.0 A	125.0 A	125.0 A
PANEL 'LC'		125.0 A	125.0 A	125.0 A
PANEL 'LD'		125.0 A	125.0 A	125.0 A
TOTAL CODE LOAD =		704.2 A	727.3 A	741.0 A



ELECTRICAL ONE - LINE DIAGRAM

N.T.S.

ELECTRICAL DESIGN & CADD SERVICES INC.
1600 LAMB LANE
PRESCOTT, AZ. 86305
PH. (928) 778–4900
FAX (928) 778–7800
E–MAIL: EES@CABLEONE.NET
JOB# 20–54

REVISIONS	BY
1 CITY COMMENTS 7–1–2021	A.O.

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REGISTERED ARCHITECT — CERTIFICATE NO. 7450 — ANGELO OSSANNA — Date Signed 7/11/21 — ARIZONA, U.S.A. — EXPIRES 12/30/2021

W. Alan Kenson & Associates, P.C.
P.O. Box 11593
Prescott, AZ 86304
P 928-443-5812
F 928-443-5815
email: waka@cableone.net
www.kenson-associates.com
ARCHITECTURE & PLANNING

DRAWING: Electrical Symbols, Specifications, One-Line Diagram & Notes

PROJECT: JSC Contracting Building A, 6601 Inter Cal Way, Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY	R.A.
CHECKED BY	A.O.
DATE	October 22nd, 2020
JOB NO.	759
SHEET	E1.0

ELECTRICAL DESIGN & CADD SERVICES INC.
1600 LAMB LANE
PRESCOTT, AZ. 86305
PH. (928) 776-4900
FAX (928) 776-7800
E-MAIL: EES@CABLEONE.NET
JOB# 20-54

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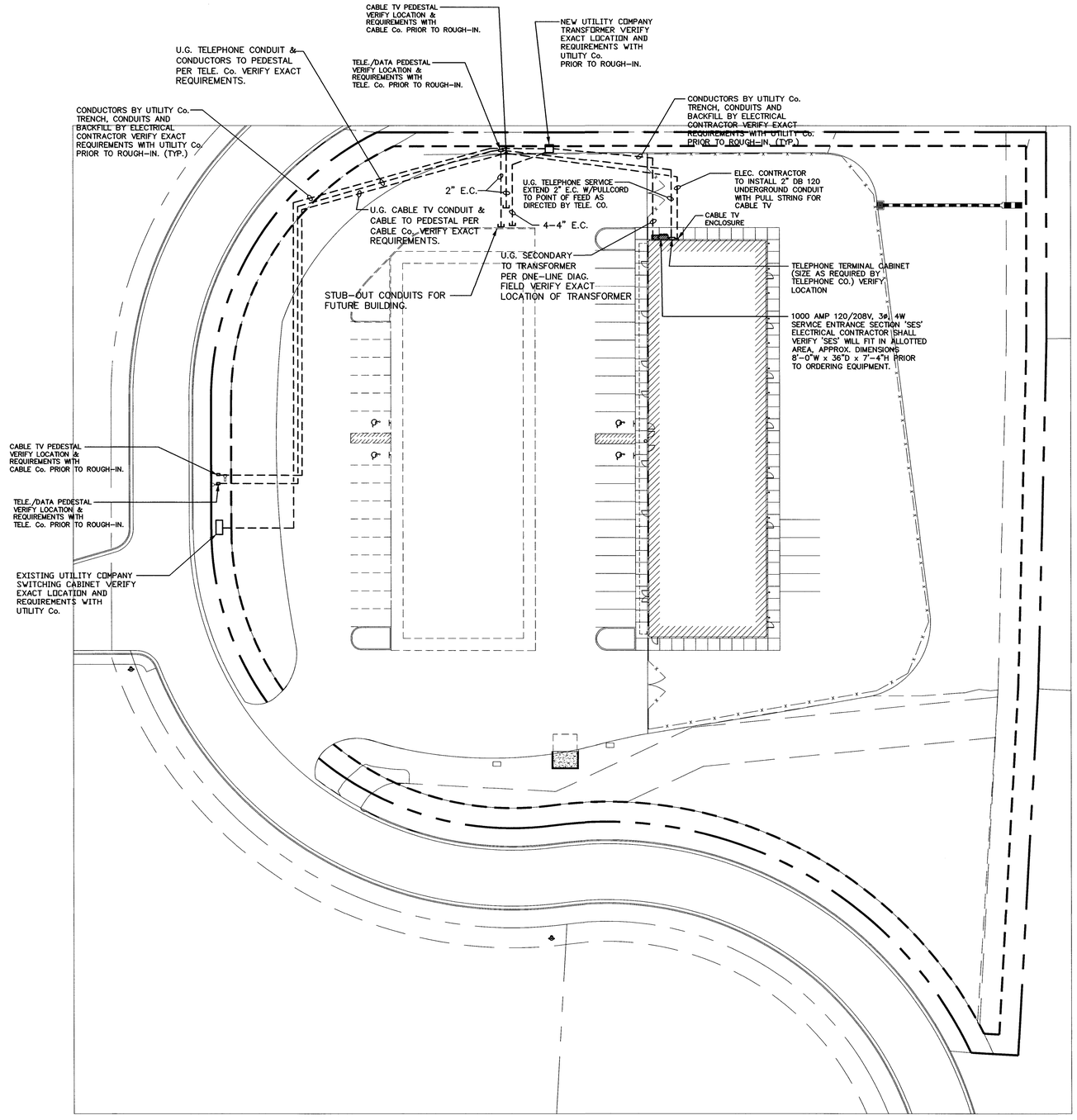
NOTE:
TIME CLOCK SHALL BE SEVEN DAY, PROGRAMMABLE, 8-CIRCUIT MIN. W/BATTERY BACK-UP. SET EACH INDIVIDUAL CIRCUIT AS DIRECTED BY ARCHITECT/OWNER.



Electrical Site Plan

Scale: 1"=30'-0"

Plan North

W. Alan Kenson & Associates, P.C.
P 928-443-5812
F 928-443-5815
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ARCHITECTURE & PLANNING

DRAWING: Electrical Site Plan

PROJECT: JSC Contracting Building A
8601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY	R.A.
CHECKED BY	A.O.
DATE	October 22nd, 2020
JOB NO.	759
SHEET	E1.1

Dec 17, 2020 - 12:50pm

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1600 LAMB LANE
PRESCOTT, AZ. 86305
PH. (928) 776-4900
FAX (928) 776-7800
E-MAIL: EES@CABLEONE.NET
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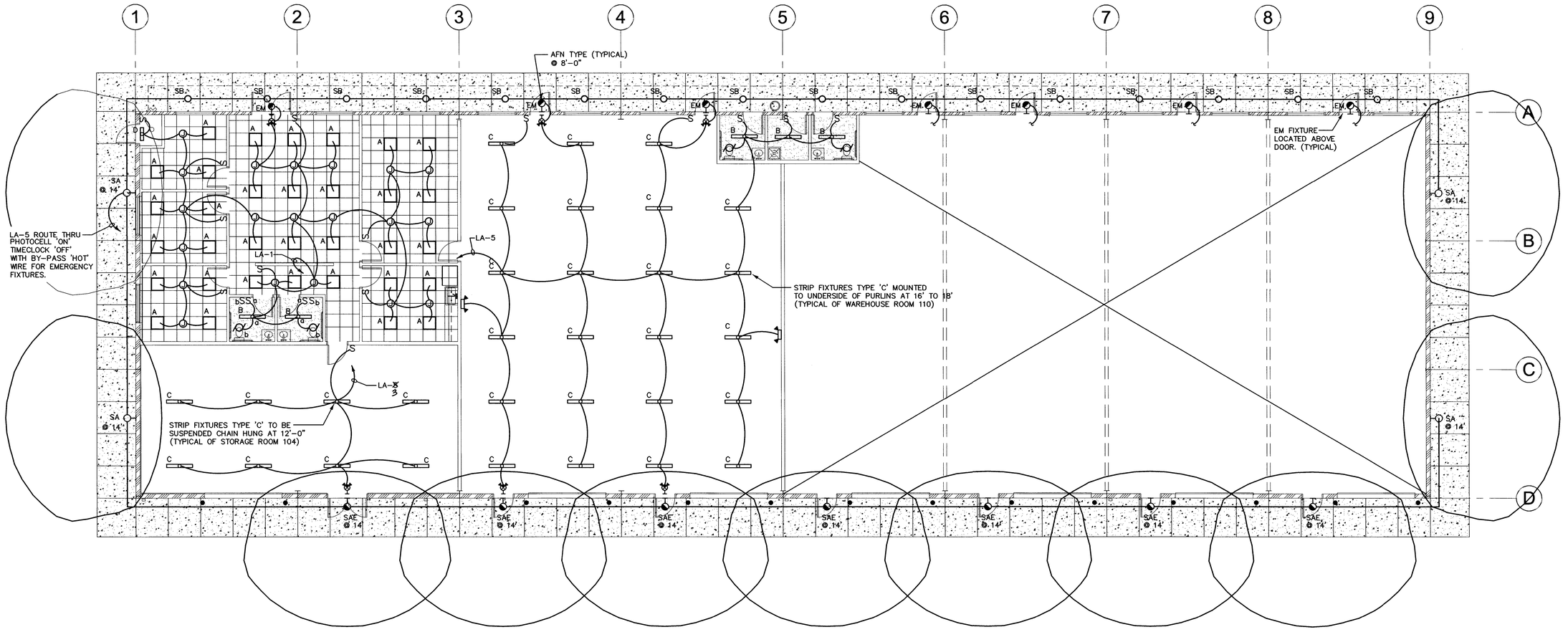
GENERAL LIGHTING NOTES:

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.



Lighting Floor Plan

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

Plan North

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

Schedule								
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Lumens Per Lamp	Light Loss Factor	Wattage
	A	33	Lithonia Lighting	EPANL 2x2 2000LM 80CRI 35K MIN10 ZT MVOLT	EPANL 2x2, 2000 Nominal Lumens, 80 CRI, 4000K CCT	LED - 3500K COLOR TEMP	2030	0.91	17.34
	B	5	Lithonia Lighting	CLX L48 3000LM SEF FDL MVOLT GZ10 35K 80CRI WH	CLX LED Linear 48" 3,000 lumens, Standard Efficiency, Less louver, Flat diffuse lens, General distribution, MVOLT, 0-10V dimming, 3500 CCT, 80 CRI	LED - 3500K COLOR TEMP	2738	0.91	20.32
	C	31	Lithonia Lighting	CLX L48 7000LM SEF FDL MVOLT GZ10 35K 80CRI WH	CLX LED Linear 48" 7,000 lumens, Standard Efficiency, Less louver, Flat diffuse lens, General distribution, MVOLT, 0-10V dimming, 3500 CCT, 80 CRI	LED - 3500K COLOR TEMP	6628	0.91	49.05
	D	1	Lithonia Lighting	CLX L24 3000LM SEF FDL MVOLT GZ10 35K 80CRI WH	CLX LED Linear 24" 1,500 lumens, Standard Efficiency, Less louver, Flat diffuse lens, General distribution, MVOLT, 0-10V dimming, 3500 CCT, 80 CRI	LED - 3500K COLOR TEMP	1500	0.91	10.32
	EM	7	Lithonia Lighting	AFF OEL (HOUSING) UVOLT LTP SDRT FCT	AFF premium FCT (Forward Throw)	LED, Forward throw	451	0	5.48
	SA	4	Lithonia Lighting	WDGE1 LED P1 30K 80CRI VW MVOLT SRM (FINISH)	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT WIDE OPTIC	LED - 3000K	1163	0.91	10.0002
	SAE	7	Lithonia Lighting	WDGE1 LED P1 30K 80CRI VW MVOLT SRM E4WH (FINISH)	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT WIDE OPTIC	LED - 3000K	1163	0.91	10.0002
	SB	16	Lithonia Lighting	LDN6 30/07 L06AR LSS MVOLT GZ10	6IN LDN, 3000K, 750LM, CLEAR, SEMI-SPECULAR REFLECTOR, CRI80	LED - 3000K	748	0.91	8.91

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
BREAK ROOM	+	28 fc	35 fc	22 fc	1.6:1	1.3:1
JANITOR	+	23 fc	23 fc	22 fc	1.0:1	1.0:1
LOBBY/WORK AREA	+	28 fc	37 fc	6 fc	6.2:1	4.7:1
NORTH RR	+	22 fc	25 fc	19 fc	1.3:1	1.2:1
OFFICE 101	+	23 fc	28 fc	18 fc	1.6:1	1.3:1
OFFICE 102	+	30 fc	33 fc	28 fc	1.2:1	1.1:1
OFFICE 103	+	29 fc	32 fc	28 fc	1.1:1	1.0:1
OFFICE 109	+	24 fc	32 fc	16 fc	2.0:1	1.5:1
RR	+	22 fc	25 fc	19 fc	1.3:1	1.2:1
SITE	+	1.7 fc	7.2 fc	0.1 fc	72.0:1	17.0:1
SUITE A	+	28 fc	36 fc	16 fc	2.3:1	1.8:1
SUITE B	+	39 fc	47 fc	19 fc	2.5:1	2.1:1

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: Lighting Floor Plan

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY: R.A.
CHECKED BY: A.O.
DATE: October 22nd, 2020
JOB NO.: 759
SHEET: E1.2

Dec 17, 2020 - 12:52pm

ELECTRICAL DESIGN & CADD SERVICES INC.
1600 LAMB LANE
PRESCOTT, AZ. 86305
PH. (928) 776-4900
FAX (928) 776-7800
E-MAIL: EES@CABLEONE.NET

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REVISIONS	BY
1 CITY COMMENTS 7-1-2021	A.O.

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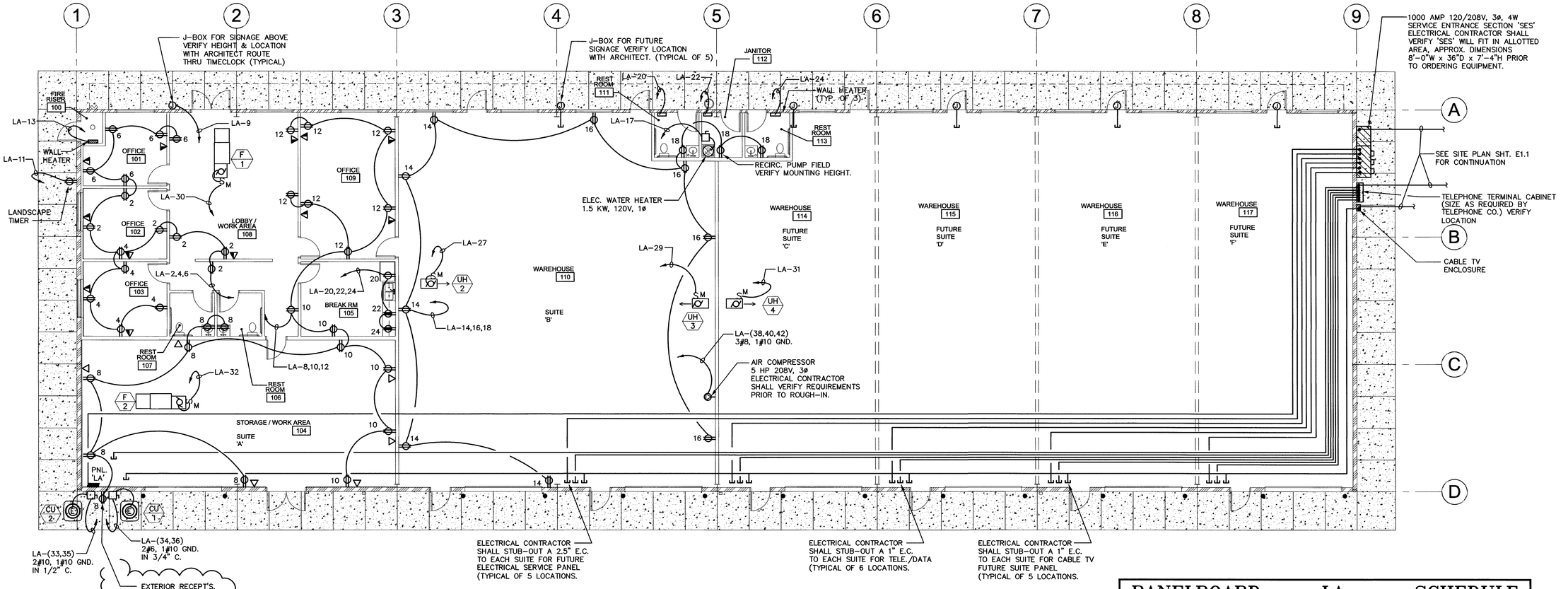
CERTIFICATE NO. 7450 ANGELO OSSANNA
EXPIRES 12/30/2021



Power Floor Plan

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

Plan North

GENERAL POWER NOTES:

1. ELECTRICAL CONTRACTOR SHALL VERIFY MOUNTING HEIGHT OR LOCATION OF ANY ELECTRICAL EQUIPMENT AND OR DEVICES HE IS TO VERIFY ITEMS WITH ELECTRICAL ENGINEER, ARCHITECT OR OWNER PRIOR TO ROUGH-IN.
2. ALL RECEPTACLES AT RESTROOM LAVATORIES TO BE GFCI TYPE INSTALLED AT +42" A.F.F.
3. ALL RECEPTACLES IN AREAS WITHIN 6'-0" OF A SINK SHALL BE GFCI TYPE PER NEC
4. EXTERIOR & ROOF MOUNTED MAINT. RECEPT'S. SHALL BE WP, GFCI TYPE PER NEC
5. VERIFY THE EXACT LOCATIONS OF ALL TELEPHONE OUTLETS, DATA OUTLETS AND SPECIAL SYSTEMS OUTLETS WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
6. ELECTRICAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT REQUIREMENTS BREAKER, DISC. & WIRE SIZE WITH MANUFACTURER PRIOR TO ROUGH-IN.
8. ELECTRICAL CONTRACTOR IS APPROVED TO USE SURFACE MOUNTED RECEPTACLES & CONDUIT IN WAREHOUSE VERIFY PRIOR TO ROUGH-IN.
9. ALL RECEPTACLES IN THE WAREHOUSE TO BE INSTALLED AT +48" A.F.F. GFCI TYPE.

PANELBOARD SYMBOLS

- ✱ CONTINUOUS DUTY/LARGEST MOTOR @ 125%
- ● PROVIDE BREAKER W/ HANDLE "LOCK-ON" DEVICE
- ◆ CIRCUIT VIA TIMECLOCK
- ▲ CIRCUIT VIA PHOTOCELL
- □ SHUNT TRIP CIRCUIT BREAKER
- ⬡ KITCHEN EQUIPMENT @ 65% per nec 220-20
- ○ EXISTING BREAKER W/ NEW LOAD
- △ NEW BREAKER W/ NEW LOAD

PANELBOARD LA SCHEDULE

MAINS: 200A MLO
VOLTAGE: 120/208, 3, 4W
TYPE: GE, SQ D OR EQUAL

LOCATION: SEE PLAN
MOUNTING: SURFACE
MIN. A.I.C.: 65/10K SERIES RATED

CIRCUIT DESCRIPTION	BKR.	CIR. NO.	ØA	ØB	ØC	CIR. NO.	BKR.	CIRCUIT DESCRIPTION
LIGHTS	20/1	1	1500			2	20/1	RECEPT'S. –
			1080					
– WAREHOUSE		3		650		4		
		5		900		6		
					1000			
– EXTERIOR		7	1100		900	8		
			1260					
SIGNAGE		9		1500		10		
				1080				
LANDSCAPE TIMER		11			200	12		
					1080			
WALL HEATER – FIRE RISER ROOM		13	1500			14		
			900					
FIRE ALARM PANEL		15		200		16		
				720				
ELEC. WATER HEATER		17			1500	18		
					540			
SPARE		19				20		– REFRIGERATOR
			1500					
SPARE		21				22		– COUNTER
				1500				
SPARE		23				24		– COUNTER
					1500			
SPARE		25				26		SPARE
UNIT HEATER UH-2		27		200		28		SPARE
UNIT HEATER UH-3		29			200	30		FURNACE F-1
					1650			
UNIT HEATER UH-4		31	200			32		FURNACE F-2
			800					
CONDENSING UNIT CU-2	30/2	33		1872		34	50/2	CONDENSING UNIT CU-1
18 MCA, 208V, 1ø		35		3840		36		32 MCA, 208V, 1ø
					1872			
SPACE		37			3840	38	40/3	AIR COMPRESSOR
			2500					
		39				40		5 HP (VERIFY AMPS & PHASE)
				2500				
		41				42		
					2500			
TOTAL LOAD PER PHASE:			9500	12280	13922	HI@ 13922 / 120 = 116.0 AMPS		

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ARCHITECTURE & PLANNING

DRAWING: Power Floor Plan

PROJECT: JSC Contracting Building A
6601 Inter Cal Way
Prescott, AZ 86301

APN: 103-50-054B & 103-50-054C

DRAWN BY R.A.
CHECKED BY A.O.
DATE October 22nd, 2020
JOB NO. 759
SHEET

E1.3

Jul 01, 2021 - 11:53am