

NEW COMMERCIAL BUILDING FOR:

HEATWOLE

PRESCOTT , ARIZONA

Area Map



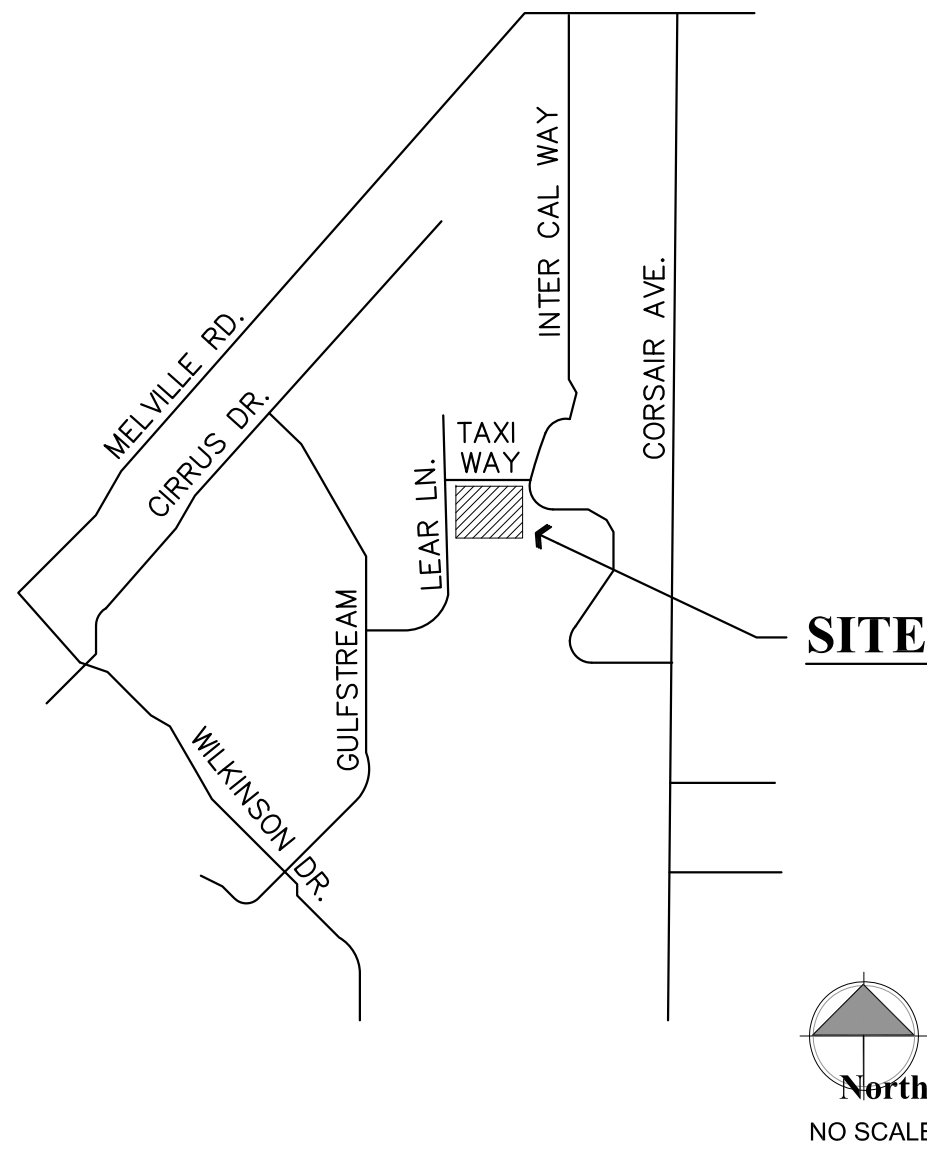
Deferred Submittals

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

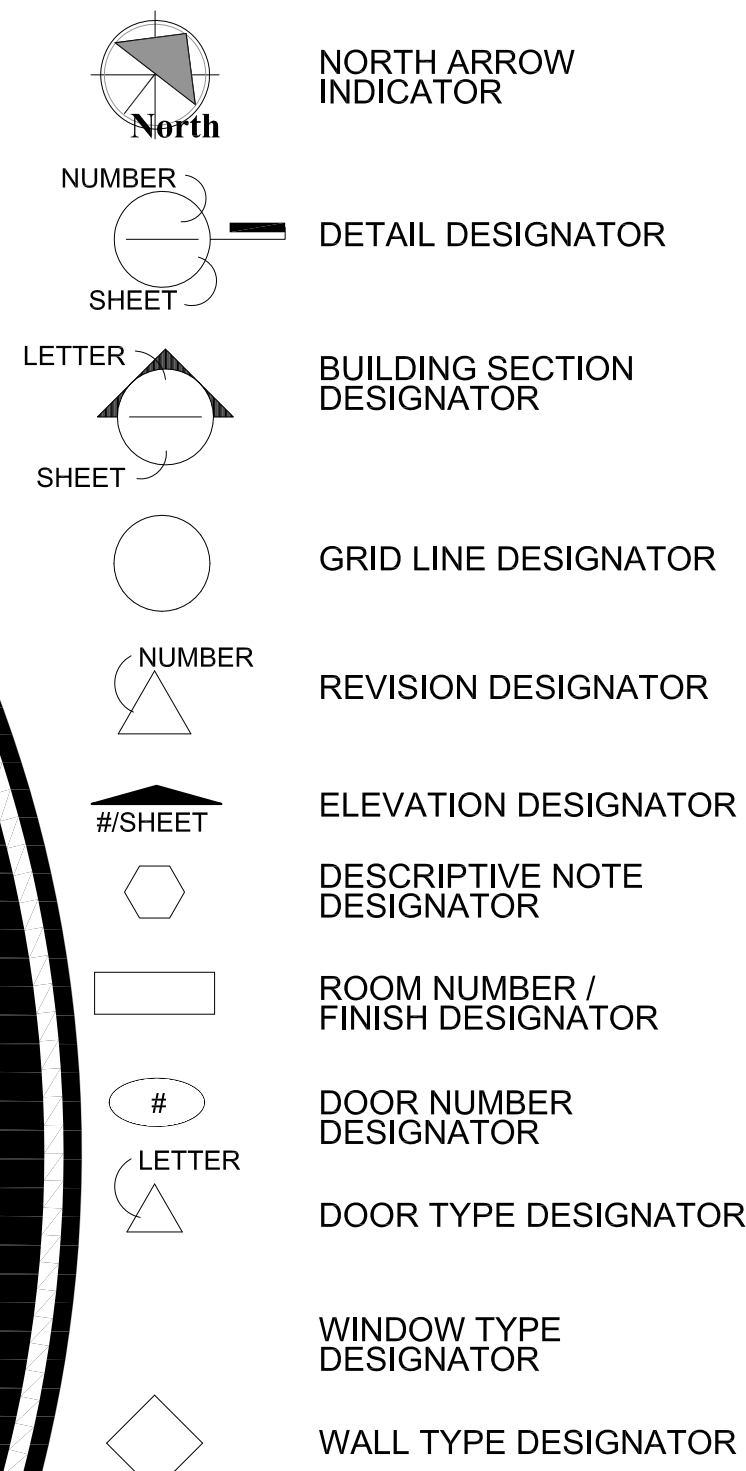
- Automatic Fire Sprinkler System.
- Fire Alarm System.

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

Vicinity Map



Graphic Standards



Project Information

OWNER	Jay and Anne Heatwole 805 N. Lakeview Dr. Prescott, AZ 86301
PREPARED BY:	W. Alan Kenson & Associates, P.C. P.O. Box 11593 Prescott, AZ 86304
CONTRACTOR:	Kenson Construction Company Inc. 6135 Corsair Avenue Prescott, AZ 86301
SCOPE OF WORK:	New Building
PROJECT ADDRESS:	6397 Lear Ln. Prescott, AZ 86301
PARCEL #	102-03-073
ZONE	IL = Industrial Light
OCCUPANCY:	B & S-2
CONSTRUCTION TYPE:	II-B (sprinklered)
ALLOWABLE AREA:	23,000 +200% = 69,000 S.F.
ACTUAL AREA:	9,200 S.F.
EMERGENCY LIGHTING:	Yes
FIRE ALARMS:	Yes
FIRE SPRINKLERS:	Yes
FIRE EXTINGUISHERS:	Yes - 1 per 3,000 square feet
BUILDING CODE:	2012 International Building Code

PARKING REQUIRED	Warehousing & Distribution
PROPOSED BUILDING 'A':	1 per 300 s.f. office area (1183 s.f.) = 3.9 1 per 500 s.f. storage (8016 s.f.) = 16.0 Total spaces required: 20

POTENTIAL FUTURE BUILDING 'B'	
PARKING REQUIREMENTS:	Warehousing & Distribution/Offices 1 per 300 s.f. office area (11,440 s.f.) = 38

Project Description

THE OWNER'S PROPOSED DEVELOPMENT INCLUDES AN APPROXIMATELY 9,200 SQUARE FOOT WAREHOUSE BUILDING OF WHICH APPROXIMATELY 1,000 SQUARE FEET WILL BE OFFICE SPACE. SITE DEVELOPMENT WILL INCLUDE AN ASPHALT PARKING LOT TO ACCOMMODATE THE REQUIRED PARKING PLUS A 100' TURNING RADIUS FOR SEMI-TRUCK DELIVERIES AND REQUIRED LANDSCAPING. THE 9,200 SQUARE FOOT BUILDING WILL BE SEPARATED INTO EIGHT, 1,000 SQUARE FOOT SPACES. EACH SPACE IS INTENDED AS A DRIVER'S STORAGE AREA FOR THEIR GOODS. APPROXIMATELY TWICE A WEEK A SEMI TRUCK WILL DELIVER GOODS TO THE SITE. EACH MORNING DRIVERS WILL LOAD THEIR DELIVERY TRUCKS WITH GOODS FOR DELIVERY THAT DAY. A FUTURE POTENTIAL 11,440 SQUARE FOOT ADJACENT BUILDING IS PLANNED WITH A FUTURE ASPHALT PARKING LOT.

Architect:

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ARCHITECTURE & PLANNING

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DRAWING: COVER SHEET

PROJECT:

Heatwole Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

DRAWN BY
L.O.
CHECKED BY
W.A.K.
DATE
September 29, 2015
SCALE
AS NOTED
JOB NO.
672
SHEET

CS

REVISIONS

BY

1 CITY COMMENTS 11-12-2015 LO

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W. Alan Kenson & Associates, P.C.
25646
W. ALAN KENSON
Architect
Arizona
EXPIRES: 6/30/18

Air Barrier

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

- 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.
- 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.
- 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.



NOTE:

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

Plumbing Calculations

	Occupancy Classification	Occupancy Count	Water Closets	Lavatories	Drinking Fountains
Total Required	Business	7	1	1	1
Fixtures Proposed	Warehouse	15	1	1	1
(2) Single Occupant Toilet Rooms will be provided					

Egress Legend:

----->	EXIT ACCESS
(A)	ACCESSORY USE (NO OCCUPANCY)
XX	ROOM OCCUPANCY LOAD
XX	SUBTOTAL OCCUPANCY LOAD
XX XX XX	OCCUPANCY TOTAL REQUIRED EXIT WIDTH (FACTOR = 0.15) PROVIDED EXIT WIDTH
#	WORST CASE TRAVEL DISTANCE
FUNCTION OF SPACE OCCUPANT LOAD FACTOR	
WAREHOUSE	500 GROSS
OFFICE	100 GROSS

Occupant load

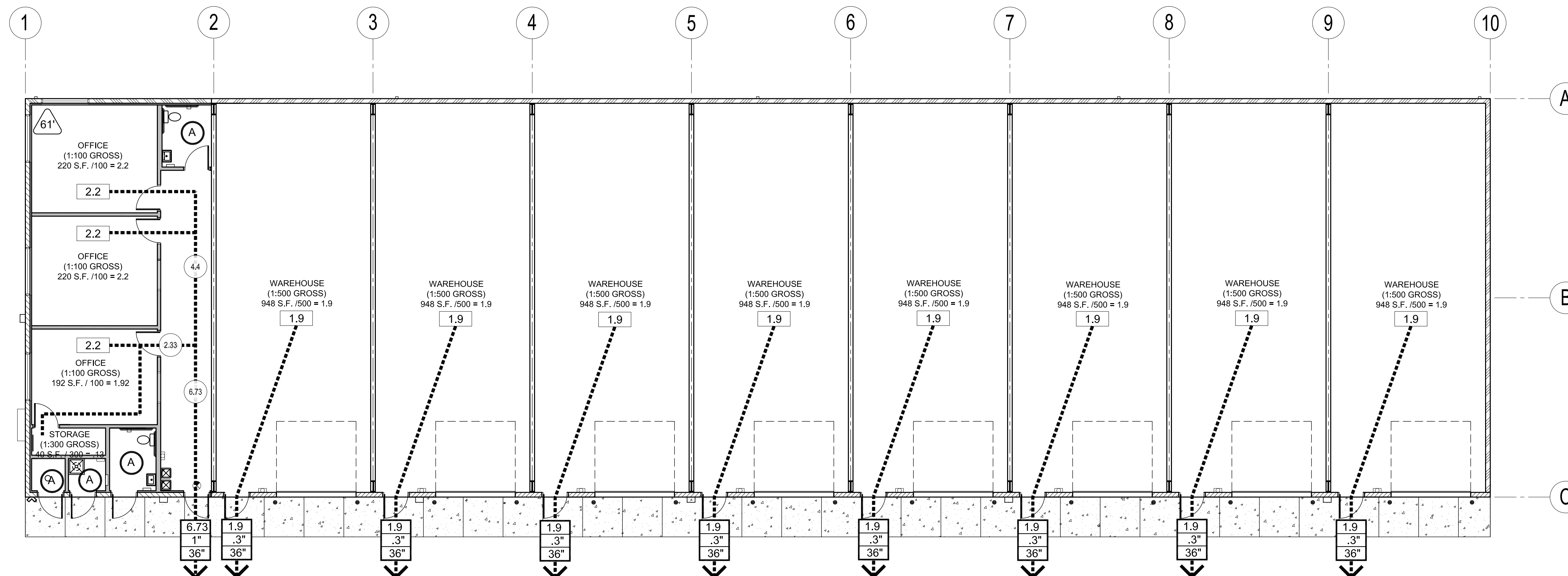
NOTE:

GROSS SQUARE FOOTAGE LISTED BELOW
DOES NOT INCLUDE ACCESSORY AREAS.

OFFICE AREA:	672 SQ. FT.	7 OCCUPANTS
WAREHOUSE:	7,584 SQ. FT.	15 OCCUPANTS
TOTAL:	8,256 SQ. FT.	22 OCCUPANTS

Accessibility Notes

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



AI Occupancy / Egress / Overall Floor Plan

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



REVISIONS	BY
1 CITY COMMENTS 11-12-2015	LO

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ARCHITECTURE & PLANNING

DRAWING: CODE SUMMARY

PROJECT: Heatwale Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE September 29, 2015
SCALE AS NOTED
JOB NO. 672
SHEET

CS2

HEATWOLE COMMERCIAL BUILDING

CIVIL IMPROVEMENT PLANS

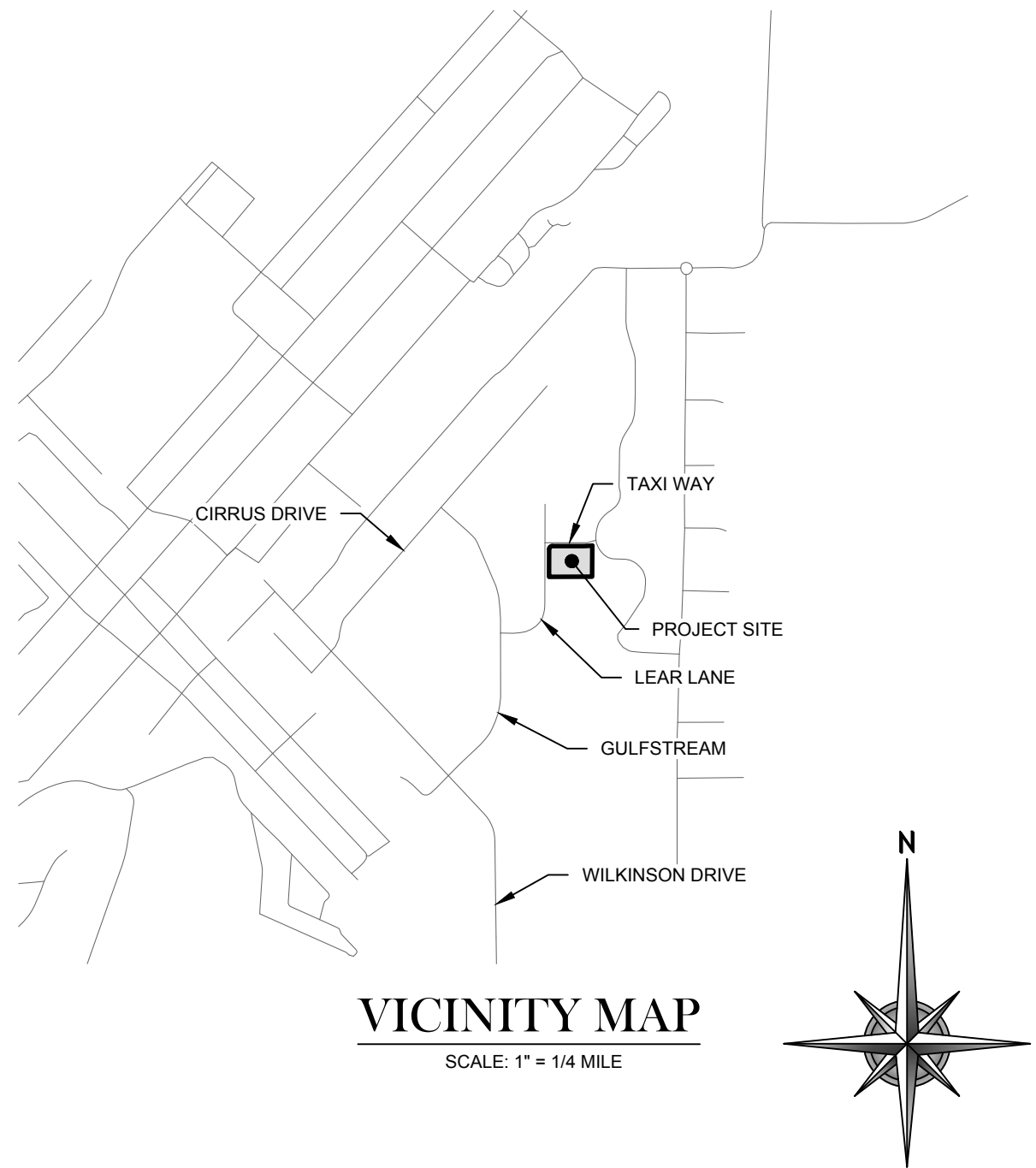
APN: 102-03-073

6397 LEAR LANE, PRESCOTT

LOT 56 OF PRESCOTT REGIONAL AIRPARK & COMMERCE CENTER

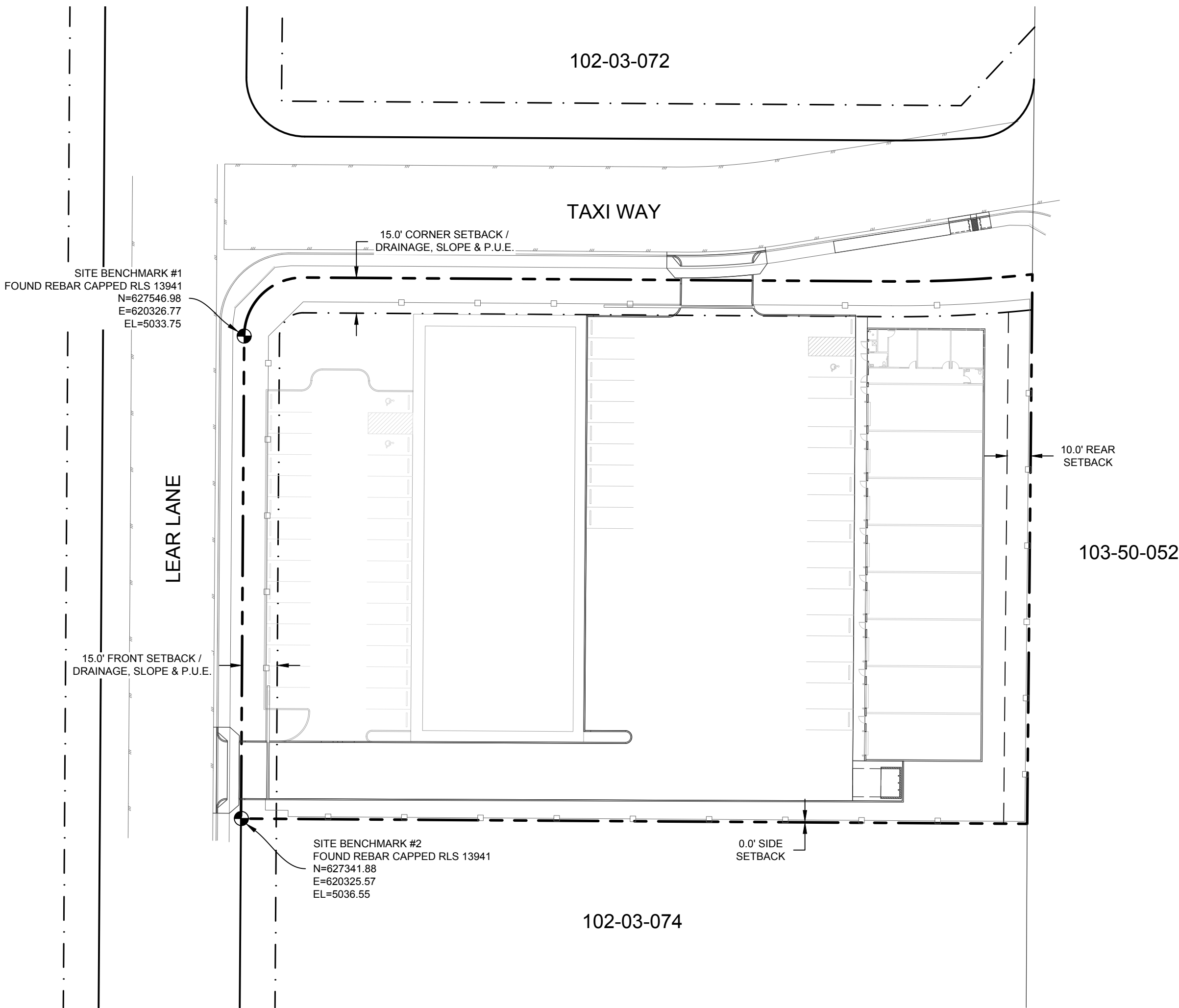
SITUATED IN A PORTION OF SECTION 25, TOWNSHIP 15 NORTH, RANGE 2 WEST

OF THE GILA AND SALT RIVER MERIDIAN, YAVAPAI COUNTY, ARIZONA



BASIS OF BEARINGS & BENCHMARKS			
THE BASIS OF BEARING FOR THIS PROJECT IS N 00° 20' 02" E A DISTANCE OF 205.11 FEET ALONG THE WEST LINE OF THE SUBJECT PARCEL BETWEEN TWO 1/2" REBARS CAPPED RLS 13941			
BENCHMARK POINT	NORTHING	EASTING	ELEVATION(88)
BENCHMARK #1	627546.98	620326.77	5033.75
BENCHMARK #2	627341.88	620325.57	5036.55

UTILITY CONTACT INFORMATION		
UTILITY	CONTACT	PHONE
ARIZONA PUBLIC SERVICE 120 N. MARINA STREET PRESCOTT, AZ 86301	MIKE SHAW	(928)776-3617
CENTURYLINK 1445 MASONRY WAY PRESCOTT, AZ 86301	KAREN PRUTZMAN	(928)776-2513
UNISOURCE 6405 WILKINSON DRIVE PRESCOTT, AZ 86301	VERA VIDOS	(928)771-7227
CABLE ONE 3801 TOWER RD. PRESCOTT, AZ 86301	JOHNNY CEDILLO	(928)443-3300 X 7111
CITY OF PRESCOTT WATER AND SEWER P.O. BOX 2059 , AZ 86301	JOEL BERMAN	(928)777-1130



PROJECT INFORMATION

OWNER:
JAY & ANNE HEATWOLE
805 NORTH LAKEVIEW DRIVE
PRESCOTT, ARIZONA 86301

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

ENGINEER:
GRANITE BASIN ENGINEERING, INC.
1981 COMMERCE CENTER CIRCLE, SUITE B
PRESCOTT, ARIZONA 86301
(928) 717-0171

SURVEYOR:
GRANITE BASIN ENGINEERING, INC.
1981 COMMERCE CENTER CIRCLE, SUITE B
PRESCOTT, ARIZONA 86301
(928) 717-0171

SITE DATA:
ASSESSOR PARCEL NUMBER
102-03-073
6397 LEAR LANE
PRESCOTT, AZ 86301

ZONING NOTE:
CITY OF PRESCOTT ZONING INFORMATION
IL DISTRICT (LIGHT INDUSTRIAL)

FLOODPLAIN NOTE:
THIS PROJECT IS NOT LOCATED WITHIN A FEMA DESIGNATED FLOODPLAIN.

SEWAGE DISPOSAL:
CITY OF PRESCOTT

WATER SUPPLY:
CITY OF PRESCOTT

FIRE DISTRICT:
CITY OF PRESCOTT



APPROVALS

CITY UTILITIES MANAGER: _____
NAME DATE

PROGRAM DEVELOPMENT MANAGER: _____
NAME DATE

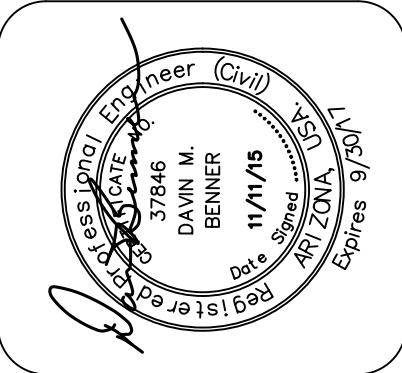
CITY ENGINEER: _____
NAME DATE

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C6	GRADING, DRAINAGE & UTILITY PLAN
C7	EROSION CONTROL PLAN

REVISIONS	BY
REVISIONS PER COP COMMENTS DATED 10/1/15	TD

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PROJECT: Heatwole Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

DRAWN BY TS
CHECKED BY DB
DATE 11-11-15
SCALE AS NOTED
JOB NO. 672
SHEET

C1

1. ALL CONSTRUCTION SHALL CONFORM TO MARICOPA ASSOCIATION OF GOVERNMENTS (MAG), & CITY OF PRESCOTT (COP) CONSTRUCTION STANDARDS & SPECIFICATIONS. LATEST REVISIONS, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER, SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW. THOSE ELEMENTS OF THE GRADING AND DRAINAGE PLAN PERTINENT TO OR REFERENCED ON THE SWPPP SHALL BE CONSIDERED A PART OF THE SWPPP.	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 IS OBTAINED FROM 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.	20. THE CITY OF PRESCOTT MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN ITS JUDGEMENT, THE UNSATISFACTORY WORK UNDOUBTEDLY RESULTS IN UNREASONABLE OR DESTRUCTIVE WORKER CONDITIONS ARE UNSTABLE, OR THERE IS A DANGER TO THE PUBLIC HEALTH AND SAFETY.
3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE PUBLIC WORKS UTILITIES DIRECTOR.	21. ALL OBSTRUCTIONS IN THE RIGHT OF WAY SHALL BE REMOVED BEFORE ANY CONSTRUCTION IS PERMITTED.
4. ACCEPTANCE OF THE COMPLETED WORK WILL NOT BE GIVEN UNTIL 3 MIL WYLAIR & CAD FORMAT DIGITAL AS-BUILT PLANS ON CITY OF PRESCOTT SURVEY DATUM & COORDINATES HAVE BEEN SUBMITTED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.	22. REMOVAL OF STRUCTURES AND OBSTRUCTIONS AS NECESSARY TO COMPLETE THE WORK, OTHER THAN SPECIFICALLY SCHEDULED IN THE BID, IS INCIDENTAL TO THE CONTRACT. NO SEPARATE MEASUREMENT OF OR PAYMENT FOR UNSCHEDULED REMOVAL ITEMS WILL BE MADE.
5. CITY OF PRESCOTT PUBLIC WORKS UTILITIES SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY WORK.	23. CLEARING AND GRUBBING IS CONSIDERED INCIDENTAL TO THE WORK UNLESS SPECIFICALLY IDENTIFIED IN THE BID SCHEDULE. NO SEPARATE MEASUREMENT OF OR PAYMENT FOR CLEARING AND GRUBBING, AND TREE REMOVAL, WILL BE MADE. THE SITE OF ALL EXCAVATION, EMBANKMENTS, AND FILLS SHALL FIRST BE CLEARED OF STUMPS, TRASH, WEEDS, RUBBISH, TOPSOIL, AND LOOSE BOULDERS WHICH SHALL BE REMOVED AND DISPOSED OF. PRIOR TO BIDDING THE CONTRACTOR MUST SATISFY HIMSELF REGARDING THE CHARACTER OF THE SUBSOLS TO INCLUDE THE AMOUNT OF LOAM, CLAY, SAND, QUICKSAND, HARDPAN, GRAVEL, ROCK, WATER, AND ALL OTHER MATERIAL TO BE ENCOUNTERED AND WORK TO BE PERFORMED.
6. ALL WORK & MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.	24. THE CONTRACTOR SHALL GUARD AGAINST DAMAGE DURING CONSTRUCTION TO EXISTING PROPERTIES AND IMPROVEMENTS, ANY ITEMS DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND OR BETTER 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.	25. THE CONTRACTOR SHALL KEEP SUITABLE EQUIPMENT ON HAND AT THE JOBSITE FOR MAINTENANCE DUST CONTROL, AND SHALL CONTROL DUST AS DIRECTED BY THE APPROPRIATE AGENCY.
8. THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEN, EQUIPMENT, & MATERIAL ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO COMPLY WITH SPECIFICATIONS & TO COMPLETE THE WORK.	26. STREET AND TRAFFIC SIGNS SHALL BE RELOCATED BY THE CONTRACTOR IF NECESSARY, AT THE DIRECTION OF THE PUBLIC WORKS DIRECTOR.
9. OP INSPECTION TO BE DONE BY THE CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT OR THEIR REPRESENTATIVE. PRIVATE DEVELOPMENTS SHALL PROVIDE FOR INDEPENDENT AND PARTY INSPECTIONS.	27. BACKFILL COMPACTION SHALL BE TYPE 1 (MAG, SECTION 601) UNLESS OTHERWISE NOTED.
10. CONTRACTOR TO NOTIFY PROJECT ENGINEER 72 HOURS (3 WORKING DAYS) IN ADVANCE OF CONSTRUCTION TO SCHEDULE CONSTRUCTION CONTROL STAKING.	28. AGGREGATE BASE COURSE SHALL NOT BE PLACED ON SUBGRADE UNTIL SUBGRADE REQUIREMENTS HAVE BEEN ACHIEVED.
11. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES, MATERIAL, SIZE & ELEVATIONS BEFORE COMMENCING CONSTRUCTION & ORDERING MATERIAL.	29. NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY PRISM ARE VERIFIED FOR RETAIL CONCERNANCE, COMPLETED AND TESTED TO INCLUDE BUT NOT LIMITED TO:SEWER TESTING LOW AIR TESTING OF MAIN LINE AND SERVICES, TRACE WIRE TESTING, DEFLECTION, AND REPERATION OF MANHOLES CONFORMING TO COP DETAIL 430P, WATER TESTING CHLORINATION/DISINFECTING OF MAIN LINE AND SERVICES, PRESSURE TESTING, TRACE WIRE TESTING AND VERIFICATION OF VALVE BOXES CONFORMING TO COP DETAIL 390P.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND PIPELINES, TELEPHONE & ELECTRICAL CONDUITS & STRUCTURES IN ADVANCE OF ANY CONSTRUCTION & OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO SUCH. THE ENGINEER &/OR OWNER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS, OR THOSE OMITTED FROM SAME.	30. ALL ASPHALT CONCRETE PAYMENT 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.
13. CONTRACTOR SHALL NOTIFY BLUE STAKE AT 1-800-STAKEIT (1-800-782-5348) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.	31. ALL UTILITY FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC. SHALL BE ADJUSTED TO FINISH ASPHALT GRADE AFTER PLACEMENT OF SURFACE COURSE BY THE CONTRACTOR PER COP STANDARD DETAILS.
14. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN & MAKE HIS BID BASED UPON THOSE VERIFICATIONS. IF ANY DISCREPANCY IN QUANTITIES IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SUCH.	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.
15. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS MUST BE COMPLIED WITH.	33. ALL CONCRETE TO BE AT LEAST 3000 PSI CLASS "A" PORTLAND CEMENT CONCRETE, UNLESS OTHERWISE SPECIFIED ON THE PLANS AND SPECIFICATIONS, OR IN STANDARD DETAILS.
16. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS SHALL APPLY WHEN MORE STRINGENT THAN THE MAG OR CITY OF PRESCOTT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, MORE SPECIFICALLY WHERE THEY PERTAIN TO MAXIMUM ALLOWABLE SEWER LINE PRESSURE, SEWER LINE EXFILTRATION-INFLTRATION RATES, ALL PLANS SIGNED BY THE CITY ARE NULL & VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED AND/OR IS NOT ACTIVELY PROGRESSING.	34. EDGES OF CONCRETE STRUCTURES TO HAVE A 3/4" CHAMFER, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
17. PROJECT CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TRAFFIC CONTROL PLANS WHICH SHALL BE MADE A PART OF THE PLAN REVIEW REQUEST TO THE CITY ENGINEER FOR APPROVAL.	35. CONCRETE SURFACES TO HAVE A BROOM FINISH UNLESS OTHERWISE NOTED ON THE PLANS.
18. WATER-SEWER SEPARATION SHALL BE PURSUANT TO AAC R-18-5-502C.	36. ALL EXPANSION JOINTS, PRE-FORMED JOINTS, PRE-FORMED JOINT FILLER AND SEALER, IN ACCORDANCE WITH MAG SECTION 729.
19. ALL FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC., SHALL BE ADJUSTED TO FINISHED ASPHALT GRADE AFTER PLACEMENT OF SURFACE COURSE AND PRIOR TO CHIP SEAL BY THE CONTRACTOR AS PER "AGENCY" STANDARD DETAIL 4-05.	37. DRIVEWAY ENTRANCES WILL BE LOCATED SPECIALLY 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 90% OF STANDARD PROCTOR DENSITY, UNLESS OTHERWISE NOTED.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF ALL UTILITIES, POWER POLES, ETC., THAT MAY BE NECESSARY.	38. ALL DISTURBED FENCES SHALL BE REPLACED IN KIND. CONTRACTOR SHALL EXTEND FENCE REPLACEMENT TO THE CLOSEST UTILITY SUPPORT NECESSARY FOR STABILITY.
21. BASE COURSE WILL NOT BE PLACED ON SUBGRADE UNTIL SUBGRADE REQUIREMENTS HAVE BEEN ACHIEVED.	39. MANHOLES SHALL BE REMOVED AND REINSTALLED AS DIRECTED BY THE U.S. POSTAL SERVICE AND THE CITY OF PRESCOTT. TEMPORARY LOCATIONS SHALL BE IDENTIFIED BY THE CITY.
22. NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY PRISM ARE VERIFIED FOR RETAIL CONCERNANCE, COMPLETED AND TESTED TO INCLUDE BUT NOT LIMITED TO:SEWER TESTING LOW AIR TESTING OF MAIN LINE AND SERVICES, TRACE WIRE TESTING, DEFLECTION, AND REPERATION OF MANHOLES CONFORMING TO COP DETAIL 430P, WATER TESTING CHLORINATION/DISINFECTING OF MAIN LINE AND SERVICES, PRESSURE TESTING, TRACE WIRE TESTING AND VERIFICATION OF VALVE BOXES CONFORMING TO COP DETAIL 390P.	40. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEEPED CLEAN OF ALL DIRT AND DEBRIS.
23. THE CONTRACTOR SHALL GUARD AGAINST DAMAGE DURING CONSTRUCTION TO EXISTING PROPERTIES AND IMPROVEMENTS, ANY ITEMS DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND OR BETTER AT THE CONTRACTOR'S EXPENSE.	41. THE CONTRACTOR SHALL WARRANT ALL WORK FOR A MINIMUM TWO YEAR PERIOD AFTER FINAL ACCEPTANCE OF THE WORK BY THE CITY.

COP STANDARD DETAIL	GENERAL NOTES	CITY ENGINEER	REVISED: 05/15	DETAIL NO. 101P
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COP STANDARD DETAIL	WATER PLAN GENERAL NOTES	CITY ENGINEER	REVISED: 05/15	DETAIL No. 103P
<div><div><div>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.</div><div>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.</div><div>3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE PUBLIC WORKS UTILITIES DIRECTOR.</div><div>4. ACCEPTANCE OF THE COMPLETED WORK WILL NOT BE GIVEN UNTIL 3 MIL WYLAIR & CAD FORMAT DIGITAL AS-BUILT PLANS ON CITY OF PRESCOTT SURVEY DATUM & COORDINATES HAVE BEEN SUBMITTED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.</div><div>5. CITY OF PRESCOTT PUBLIC WORKS UTILITIES SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY WORK.</div><div>6. ALL WORK & MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.</div><div>7. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF THE CITY INSPECTOR OR HIS REPRESENTATIVE IS SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.</div><div>8. THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEN, EQUIPMENT, & MATERIAL ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO COMPLY WITH SPECIFICATIONS & TO COMPLETE THE WORK.</div><div>9. OP INSPECTION TO BE DONE BY THE CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT OR THEIR REPRESENTATIVE. PRIVATE DEVELOPMENTS SHALL PROVIDE FOR INDEPENDENT AND PARTY INSPECTIONS.</div><div>10. CONTRACTOR TO NOTIFY PROJECT ENGINEER 72 HOURS (3 WORKING DAYS) IN ADVANCE OF CONSTRUCTION TO SCHEDULE CONSTRUCTION CONTROL STAKING.</div><div>11. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES, MATERIAL, SIZE & ELEVATIONS BEFORE COMMENCING CONSTRUCTION & ORDERING MATERIAL.</div><div>12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND PIPELINES, TELEPHONE & ELECTRICAL CONDUITS & STRUCTURES IN ADVANCE OF ANY CONSTRUCTION & OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO SUCH. THE ENGINEER &/OR OWNER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS, OR THOSE OMITTED FROM SAME.</div><div>13. CONTRACTOR SHALL NOTIFY BLUE STAKE AT 1-800-STAKEIT (1-800-782-5348) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.</div><div>14. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN & MAKE HIS BID BASED UPON THOSE VERIFICATIONS. IF ANY DISCREPANCY IN QUANTITIES IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SUCH.</div><div>15. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS MUST BE COMPLIED WITH.</div><div>16. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS SHALL APPLY WHEN MORE STRINGENT THAN THE MAG OR CITY OF PRESCOTT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, MORE SPECIFICALLY WHERE THEY PERTAIN TO MAXIMUM ALLOWABLE SEWER LINE PRESSURE, SEWER LINE EXFILTRATION-INFLTRATION RATES, ALL PLANS SIGNED BY THE CITY ARE NULL & VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED AND/OR IS NOT ACTIVELY PROGRESSING.</div><div>17. PROJECT CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TRAFFIC CONTROL PLANS WHICH SHALL BE MADE A PART OF THE PLAN REVIEW REQUEST TO THE CITY ENGINEER FOR APPROVAL.</div><div>18. WATER-SEWER SEPARATION SHALL BE PURSUANT TO AAC R-18-5-502C.</div><div>19. ALL FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC., SHALL BE ADJUSTED TO FINISHED ASPHALT GRADE AFTER PLACEMENT OF SURFACE COURSE AND PRIOR TO CHIP SEAL BY THE CONTRACTOR AS PER "AGENCY" STANDARD DETAIL 4-05.</div><div>20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF ALL UTILITIES, POWER POLES, ETC., THAT MAY BE NECESSARY.</div><div>21. BASE COURSE WILL NOT BE PLACED ON SUBGRADE UNTIL SUBGRADE REQUIREMENTS HAVE BEEN COMPLETED AND ACCEPTED BY THE "AGENCY" ENGINEER.</div><div>22. NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY PRISM ARE COMPLETED.</div><div>23. THE CONTRACTOR IS REQUIRED TO CONTACT BLUE STAKE TWO WORKING DAYS (48 HOURS) PRIOR TO COMMENCEMENT OF CONSTRUCTION (1-800-STAKE IT).</div><div>24. ALL OBSTRUCTIONS IN RIGHT-OF-WAY SHALL BE REMOVED BEFORE ANY CONSTRUCTION IS PERMITTED.</div><div>25. ANY QUANTITIES SHOWN ON THE PLANS ARE NOT VERIFIED BY THE "AGENCY" ENGINEER.</div><div>26. BACKFILL COMPACTION SHALL BE TYPE 1 UNLESS OTHERWISE NOTED (M.A.G. 601).</div><div>27. ALL A.C. SHALL BE C-34" AS PER APPLICABLE M.A.G. SPECIFICATIONS AS AMENDED BY THE "AGENCY". MIX DESIGN SHALL BE SUBMITTED PRIOR TO START OF CONSTRUCTION.</div><div>28. ALL PLANS SIGNED BY THE "AGENCY" ENGINEER IN CHARGE ARE NULL AND VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED.</div><div>29. PROJECT ENGINEER SHALL BE RESPONSIBLE FOR SUBMITTING TO THE "AGENCY" ENGINEER FOR APPROVAL, TRAFFIC CONTROL PLANS WHICH SHALL BE MADE A PART OF THE PLAN REVIEW REQUEST.</div><div>30. ALL CMP CULVERTS SHALL BE 14 GAUGE MIN.</div><div>31. CONTRACTOR SHALL WARRANT ALL WORK FOR A MINIMUM OF A TWO-YEAR PERIOD.</div></div></div>				

<div><div><div>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.</div><div>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.</div><div>3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE PUBLIC WORKS UTILITIES DIRECTOR.</div><div>4. ACCEPTANCE OF THE COMPLETED WORK WILL NOT BE GIVEN UNTIL 3 MIL WYLAIR & CAD FORMAT DIGITAL AS-BUILT PLANS ON CITY OF PRESCOTT SURVEY DATUM & COORDINATES HAVE BEEN SUBMITTED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER AND APPROVED BY THE PUBLIC WORKS DEPARTMENT.</div><div>5. CITY OF PRESCOTT PUBLIC WORKS UTILITIES SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY WORK.</div><div>6. 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THE CONTRACTOR SHALL ENSURE THAT THE DROP IN WATER LEVEL FOLLOWING PRESKIDDING DOES NOT EXCEED .00034 OF THE TOTAL MANHOLE VOLUME PER HOUR.</div><div>24B. NEGATIVE AIR PRESSURE TESTING USING THE "STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY NEGATIVE AIR PRESSURE" (VACUUM) TEST, C1044-(02/04/2002), PUBLISHED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS. THIS MATERIAL IS INCORPORATED BY REFERENCE & DOES NOT INCLUDE ANY LATER AMENDMENTS OR EDITIONS OF THE INCORPORATED MATERIAL & MAY BE VIEWED AT THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY, 1100 W. WASHINGTON, PHOENIX, AZ 85007, OR OBTAINED FROM THE AMERICAN SOCIETY FOR TESTING & MATERIALS INTERNATIONAL, 100 BAR HARBOR DRIVE, WEST CONSHOHOCKEN, PA 19428-2959.</div><div>25. SEWER LINE EXFILTRATION TESTS WITH AN APPROPRIATELY SIZED MANDEL SHALL BE DONE ON 100% OF ALL NON-RIGID PIPE LINES.</div><div>26. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CITY OF PRESCOTT WITH A DIGITAL VIDEO DVD & HARD COPY REPORT OF THE MAIN LINE & SERVICE LATERALS INSPECTION. THE CITY OF PRESCOTT COLLECTION SYSTEM, THE CONTRACTOR SHALL COMPLY WITH THE CITY'S VIDEO INSPECTION PROCEDURE TO PRODUCE THE REPORT.</div><div>27. THE TOTAL LENGTH OF THE SEWER LINE SHALL BE TESTED FOR UNIFORM SLOPE BY REMOTE CAMERA, APPROVED BY THE DEPARTMENT AND THE RESULTS RECORDED.</div><div>28. COVER EACH SEWER LINE WITH AT LEAST 3 FEET OF EARTH COVER MEETING THE REQUIREMENTS "FRENCH EXCAVATION, BACKFILLING, & COMPACTION" (SECTION 601) REVISED 2004, PUBLISHED BY THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY RIGID PIPE BEDDING FOR SANITARY SEWERS" (WMM 104) REVISED JULY 2002, PUBLISHED BY PIMA COUNTY PUBLIC WORKS MANAGEMENT.</div><div>29. PRESSURE SEWER MAINS AND SERVICE LATERALS (LPS) SHALL BE SUBJECT TO A PRESSURE TEST OF 100 PSI FOR 15 MINUTES. ALL RIGID PIPE SHALL BE 150 PSI. PRESSURE SHALL BE A MINIMUM OF 100 PSI, OR 50 PSI OVER WORKING PRESSURE, WHICHEVER IS GREATER. TESTING SHALL BE DONE AFTER BACKFILL TO SUBGRADE.</div></div></div>
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COP STANDARD DETAIL	WASTEWATER PLAN GENERAL NOTES	CITY ENGINEER	REVISED: 05/15	DETAIL NO. 104P
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EROSION CONTROL/SWPPP GENERAL NOTES:

- A COPY OF THE APPROVED GRADING AND DRAINAGE PLAN FOR THIS PROJECT AND THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW. THOSE ELEMENTS OF THE GRADING AND DRAINAGE PLAN PERTINENT TO OR REFERENCED ON THE SWPPP SHALL BE CONSIDERED A PART OF THE SWPPP.
- THE NOTICE OF INTENT (NOI) SHALL BE COMPLETED AND SUBMITTED TO THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) PRIOR TO ANY CONSTRUCTION ACTIVITY (INCLUDING CLEARING & GRUBBING AND GRADING).
- THE SWPPP AND RELATED RECORDS MUST BE MADE AVAILABLE UPON REQUEST TO ADEQ AND THE CITY OF PRESCOTT.
- A THE CONTRACTOR SHALL PERFORM, AT A MINIMUM, A VISUAL INSPECTION OF THE CONSTRUCTION SITE ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF RAINFALL GREATER THAN OR EQUAL TO A HALF AND INCH (1/2 INCH). THE OPERATOR SHALL PREPARE A REPORT DOCUMENTING HIS/HER FINDINGS ON THE CONDITIONS OF THE SWPPP CONTROLS AND NOTE ANY EROSION EVENT AREAS. THE OPERATOR'S REPORT IS TO BE MAINTAINED ON SITE BY THE OPERATOR. FACILITIES SHALL BE MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CONSTRUCTION IS COMPLETED. PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED AS DETERMINED BY THE CITY ENGINEER OR HIS DESIGNEE.
- THE IMPLEMENTATION OF THESE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED AND A NOTICE OF TERMINATION HAS BEEN SUBMITTED.
- THE FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. ADDITIONALLY, THEY MUST BE INSTALLED AND IN OPERATION PRIOR TO ANY GRADING OR LAND CLEARING. WHEREVER POSSIBLE, NATURAL VEGETATION SHOULD BE RETAINED AND MAINTAINED FOR SILT AND EROSION CONTROL.
- THE CONTRACTOR TO WHOM THE "AT-RISK"FINAL GRADING PERMIT WILL BE ISSUED MUST BE INCLUDED ON THE APPROVED NOI ISSUED BY ADEQ.
- THE CONTRACTOR OF THE SITE MUST ALSO MAINTAIN RECORDS WITH THE FOLLOWING INFORMATION:
 - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR IN A PARTICULAR AREA.
 - THE DATES WHEN CONSTRUCTION ACTIVITIES OCCUR IN A PARTICULAR AREA, TEMPORARILY OR PERMANENTLY; AND
 - THE DATES WHEN AN AREA IS STABILIZED, TEMPORARILY OR PERMANENTLY; AND
 - THE DATES WHEN ANY MAINTENANCE/REPLACEMENT OR REMOVAL OF REQUIRED BMP'S.

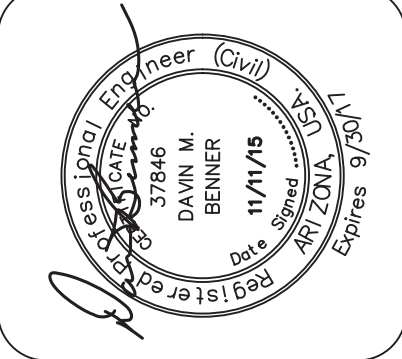
- CONSTRUCTION SITES ARE DYNAMIC IN NATURE. THE SITE OPERATOR IS REQUIRED TO MAINTAIN FULL COMPLIANCE WITH THE GENERAL CONSTRUCTION PERMIT, AS ISSUED BY ADEQ, TO MAINTAIN AN EFFECTIVE SWPPP. AS SUCH, THIS PLAN MUST BE UPDATED TO ACCURATELY REFLECT SITE FEATURES AND OPERATIONS WHICH MAY BECOME EVIDENT DURING CONSTRUCTION, AND/OR DURING OR AFTER RAINFALL EVENTS. THE PLAN MUST ALSO BE AMENDED IF IT IS DETERMINED BY THE DESIGN ENGINEER, OR THE CITY ENGINEER AS NOT EFFECTIVE AT MINIMIZING POLLUTANT DISCHARGES FROM THE SITE.
- THE SCHEMATIC EROSION CONTROL MEASURES SHOWN ARE A MINIMUM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEANS TO PROTECT EXISTING FACILITIES AND ADJACENT PROPERTIES FROM NOISE, DUST, AND STORM WATER RUNOFF THROUGHOUT CONSTRUCTION OF THE PROJECT AND BUILDINGS ON LOTS, AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER THAT STORM WATER WILL BE CONTAINED ON SITE OR CHanneLED INTO A STORM DRAIN SYSTEM, PROVIDED THAT IT IS FREE FROM POLLUTANTS AND DEBRIS.
- THE CONTRACTOR SHALL HYDRO-SEED ALL EXPOSED SLOPES EMPLOYING BEST MANAGEMENT PRACTICES AND/OR RECOMMENDED SOIL PREPARATION TO PROMOTE AND SUSTAIN GROWTH. ALL EROSION CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL EXPOSED SLOPES HAVE BEEN PERMANENTLY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND MAINTAINING HYDRO-SEED UNTIL STABILIZED. ANY DEVIATION SHALL BE APPROVED BY THE ENGINEER.
- ALL SITE REVEGETATION SHALL BE COMPLETED WITHIN 90 DAYS OF COMPLETION OF GRADING WORK, OR PRIOR TO RELEASE OF SUBDIVISION GUARANTEE OR ISSUANCE OF CERTIFICATE OF OCCUPANCY, WHICH EVER OCCURS FIRST. PERMANENT BANK/SLOPE STABILIZATION SHALL BE CERTIFIED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT DOCUMENTING THE BANK/SLOPE STABILIZATION WAS COMPLETED ACCORDING TO PLAN PRIOR TO FINAL SUBDIVISION RELEASE OR CERTIFICATE OF OCCUPANCY.
- THE CONTRACTOR SHALL PROTECT ALL PERMANENT AND EXISTING STORM WATER FACILITIES FROM SEDIMENT/SILT DURING CONSTRUCTION.
- SILT FENCING AND/OR OTHER SEDIMENT CONTROL (I.E. STRAW BAPFLES, HAY BALES, ETC.) SHALL BE USED AT THE TOE OF ANY ERODIBLE SLOPE, FOLLOWING CONTOURS OF SLOPE (DO NOT INSTALL SILT FENCE ACROSS ANY DRAINAGE COURSE).
- ONCE THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS MET THE FINAL STABILIZATION REQUIREMENTS OF THE PERMIT, THE AUTHORIZED SITE REPRESENTATIVE MAY FILE A NOTICE OF TERMINATION (NOTI) WITH ADEQ, WITH A COPY SUBMITTED TO THE CITY OF PRESCOTT ENGINEERING DIVISION TO TERMINATE COVERAGE UNDER THE PERMIT.

PAVING GENERAL NOTES:

- ALL CONSTRUCTION TO CONFORM TO SPECIFICATIONS AND DETAILS. LATEST REVISIONS, UNLESS MODIFIED ON THE PLANS.
- "AGENCY" ENGINEERING DEPARTMENT PERMIT WILL BE REQUIRED FOR ALL OFF-SITE CONSTRUCTION AND CONSTRUCTION WITHIN PUBLIC EASEMENTS.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AT HIS OWN EXPENSE, PERMITS FROM THE APPROPRIATE AGENCY.
- APPROVAL BY THE "AGENCY" ENGINEER MEANS FOR GENERAL LAYOUT IN RIGHT-OF-WAY ONLY.
- THE ENGINEERING DEPARTMENT SHALL BE NOTIFIED 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- WORK PERFORMED WITHOUT THE APPROVAL OF THE "AGENCY" ENGINEER AND/OR ALL WORK MATERIALS NOT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEEP CLEAN OF ALL DIRT AND DEBRIS.
- THE CONTRACTOR SHALL KEEP SUITABLE EQUIPMENT ON HAND AT THE JOB SITE FOR MAINTENANCE DUST CONTROL, AND SHALL CONTROL DUST AS DIRECTED BY THE APPROPRIATE AGENCIES.
- A THOROUGH ATTEMPT HAS BEEN MADE TO SHOW THE LOCATIONS OF ALL UNDERGROUND OBSTRUCTIONS AND UTILITY LINES IN THE WORK AREA; HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OBSTRUCTIONS AND UTILITY LINES ENCOUNTERED DURING CONSTRUCTION, AND SHALL DETERMINE THE EXACT LOCATION OF UTILITIES IN ADVANCE OF TRENCHING. THE ENGINEER WILL NOT GUARANTEE ANY ELEVATIONS OR LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS.
- ALL FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC., SHALL BE ADJUSTED TO FINISHED ASPHALT GRADE AFTER PLACEMENT OF SURFACE COURSE AND PRIOR TO CHIP SEAL BY THE CONTRACTOR AS PER "AGENCY" STANDARD DETAIL 4-05.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF ALL UTILITIES, POWER POLES, ETC., THAT MAY BE NECESSARY.
- BASE COURSE WILL NOT BE PLACED ON SUBGRADE UNTIL SUBGRADE REQUIREMENTS HAVE BEEN COMPLETED AND ACCEPTED BY THE "AGENCY" ENGINEER.
- NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY ARE COMPLETED.
- THE CONTRACTOR IS REQUIRED TO CONTACT BLUE STAKE TWO WORKING DAYS (48 HOURS) PRIOR TO COMMENCEMENT OF CONSTRUCTION (1-800-STAKE IT).
- ALL OBSTRUCTIONS IN RIGHT-OF-WAY SHALL BE REMOVED BEFORE ANY CONSTRUCTION IS PERMITTED.
- ANY QUANTITIES SHOWN ON THE PLANS ARE NOT VERIFIED BY THE "AGENCY" ENGINEER.
- BACKFILL COMPACTION SHALL BE TYPE 1 UNLESS OTHERWISE NOTED (M.A.G. 601).
- ALL A.C. SHALL BE C-34" AS PER APPLICABLE M.A.G. SPECIFICATIONS AS AMENDED BY THE "AGENCY". MIX DESIGN SHALL BE SUBMITTED PRIOR TO START OF CONSTRUCTION.
- ALL PLANS SIGNED BY THE "AGENCY" ENGINEER IN CHARGE ARE NULL AND VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED.
- PROJECT ENGINEER SHALL BE RESPONSIBLE FOR SUBMITTING TO THE "AGENCY" ENGINEER FOR APPROVAL, TRAFFIC CONTROL PLANS WHICH SHALL BE MADE A PART OF THE PLAN REVIEW REQUEST.
- ALL CMP CULVERTS SHALL BE 14 GAUGE MIN.
- CONTRACTOR SHALL WARRANT ALL WORK FOR A MINIMUM OF A TWO-YEAR PERIOD.

REVISIONS	BY
REVISIONS PER COP COMMENTS DATED 10/1/15	TD

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W. Alan Kenson & Associates, P.C.

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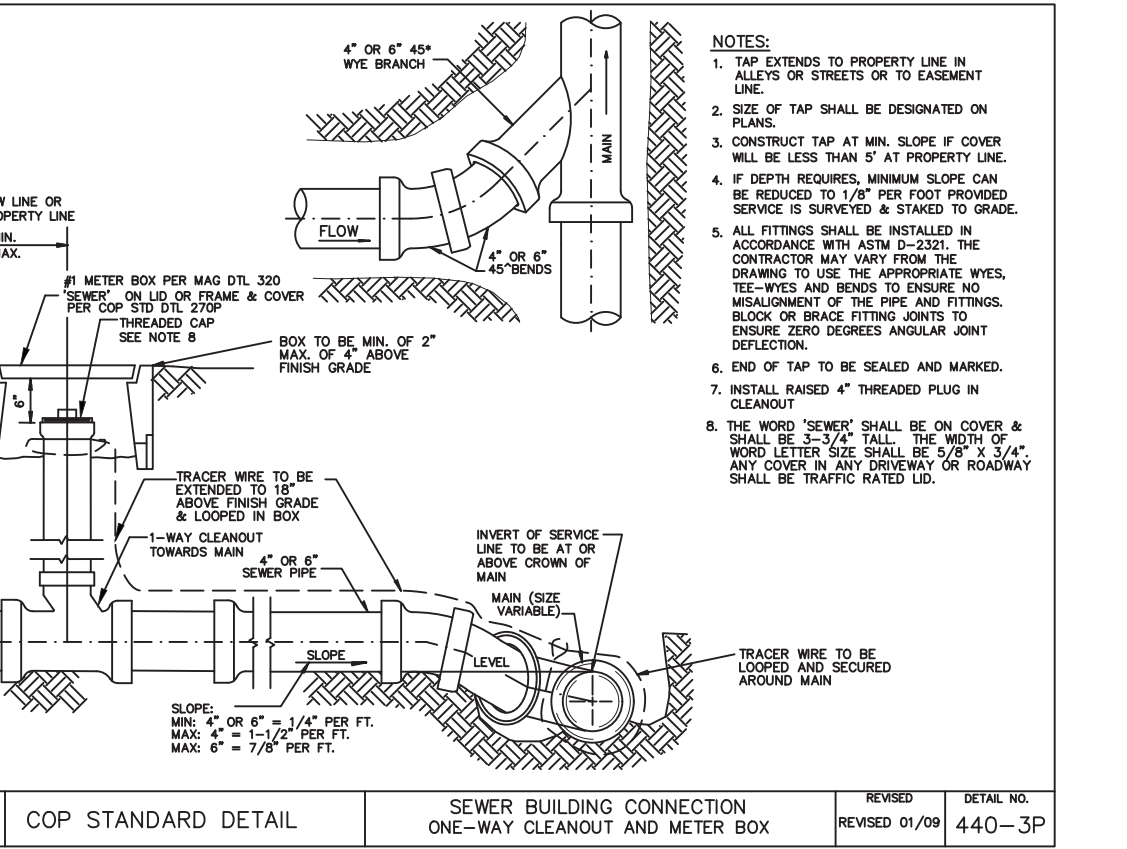
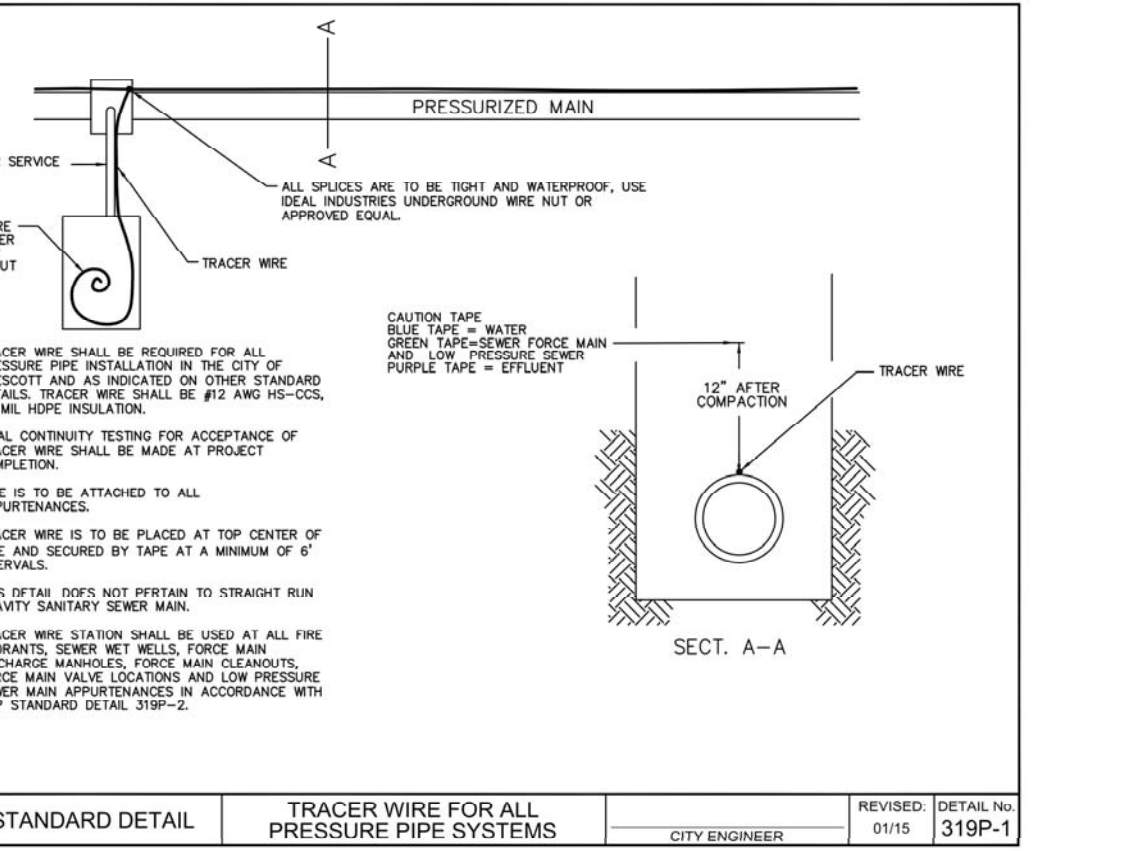
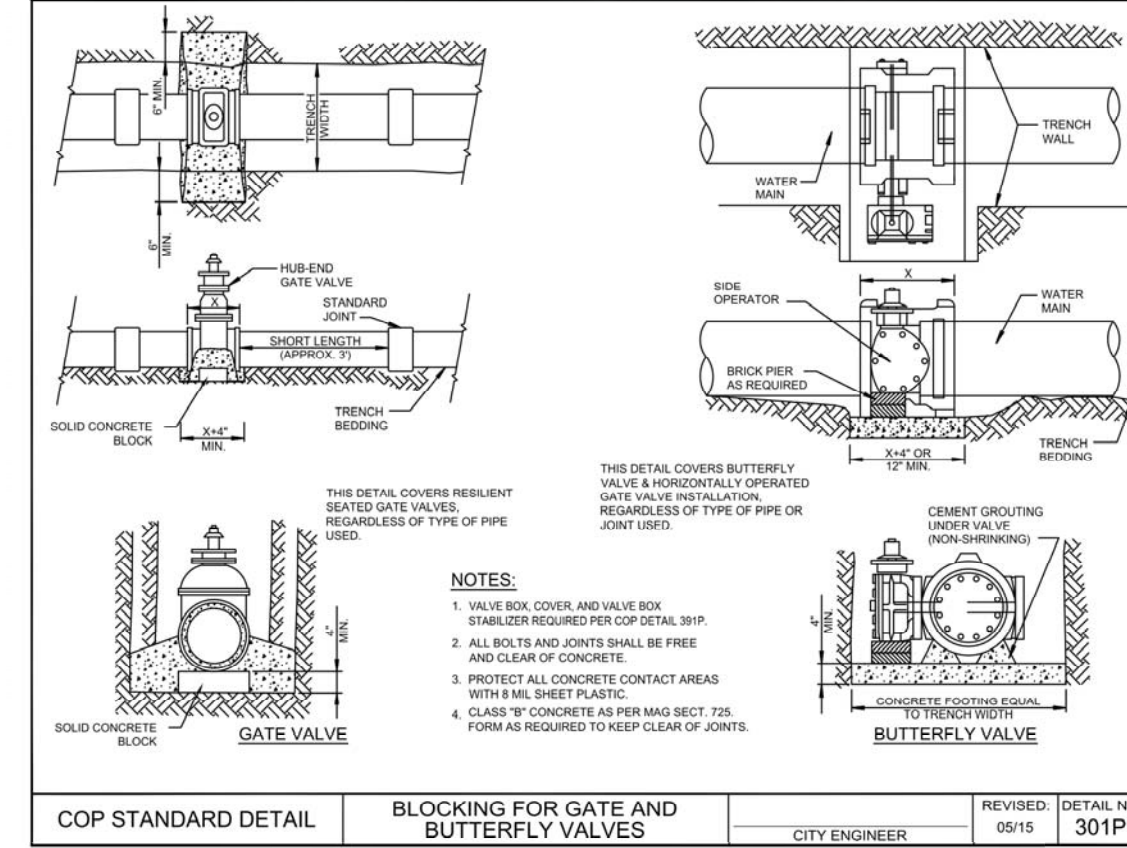
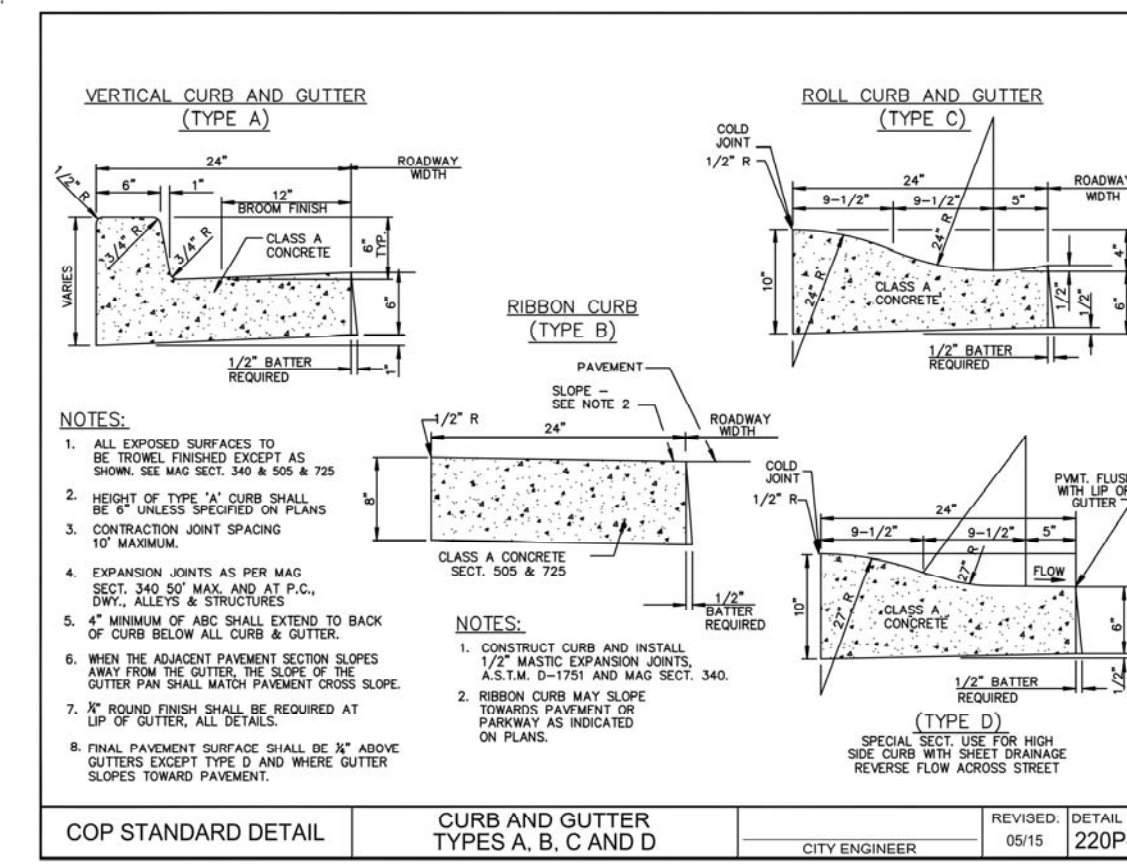
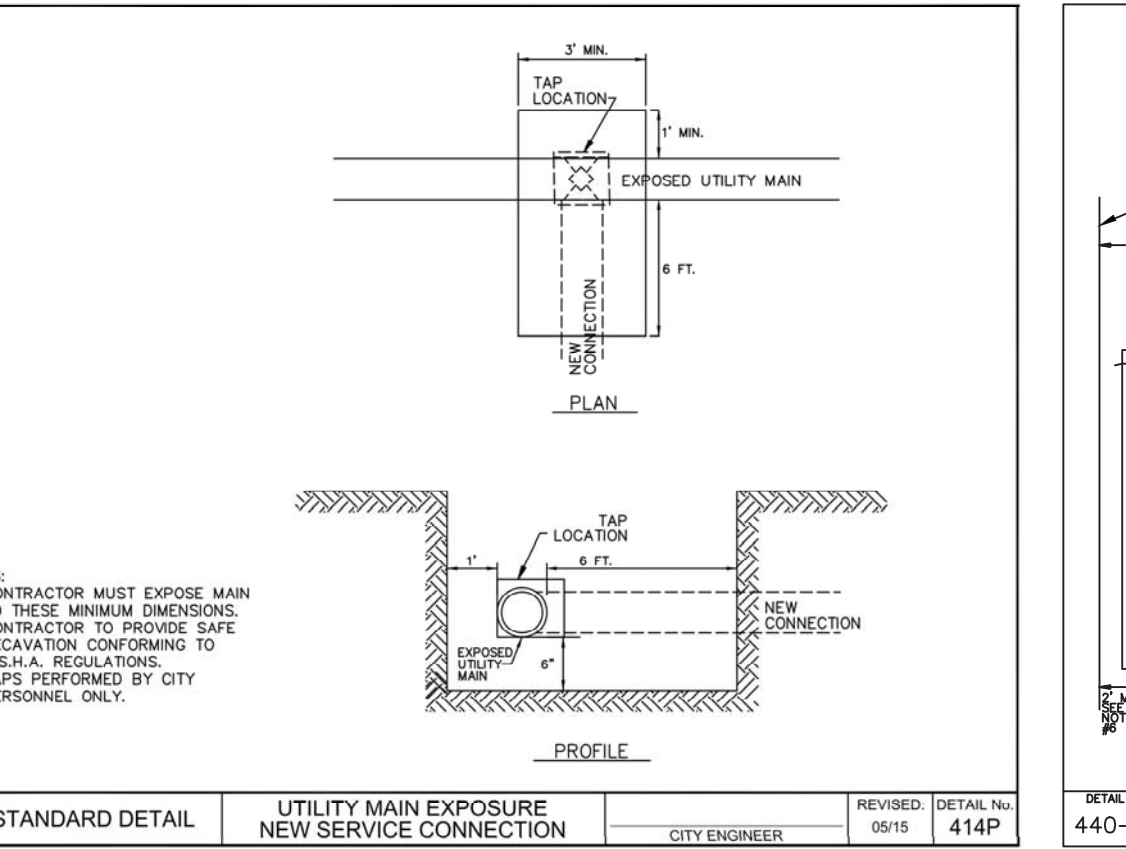
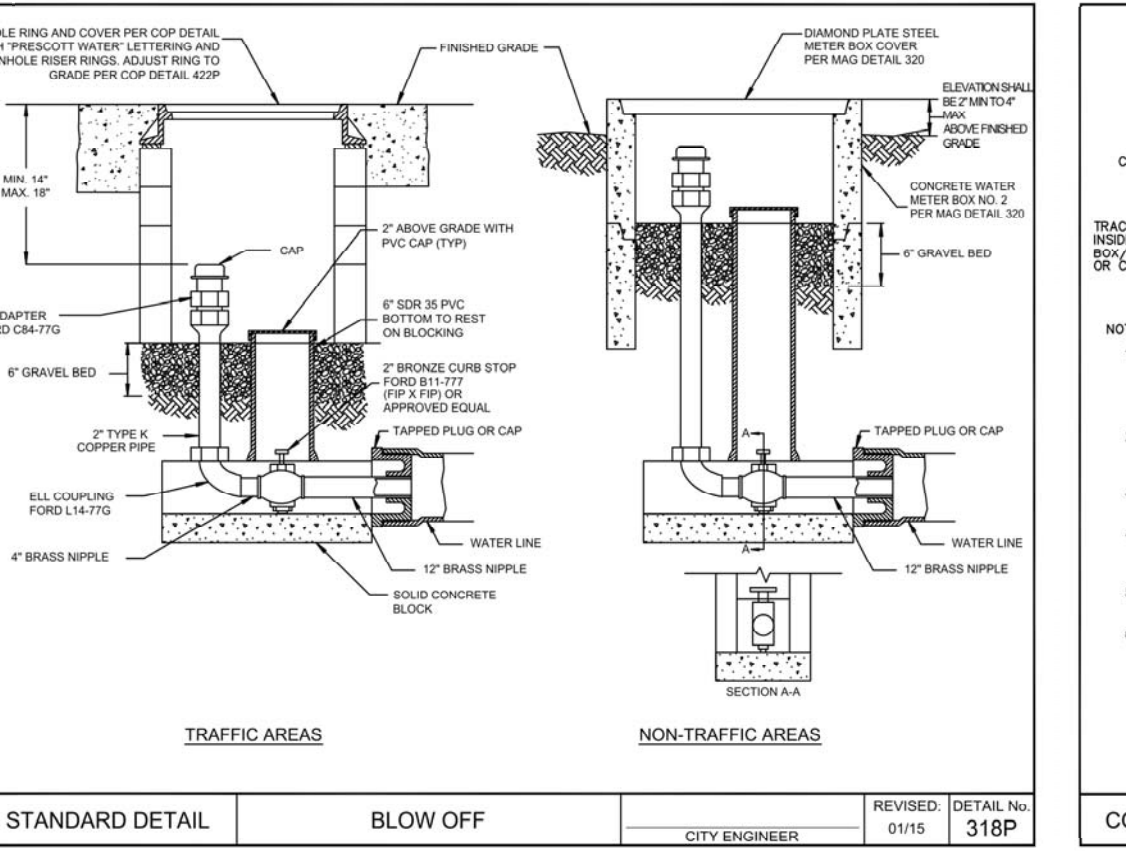
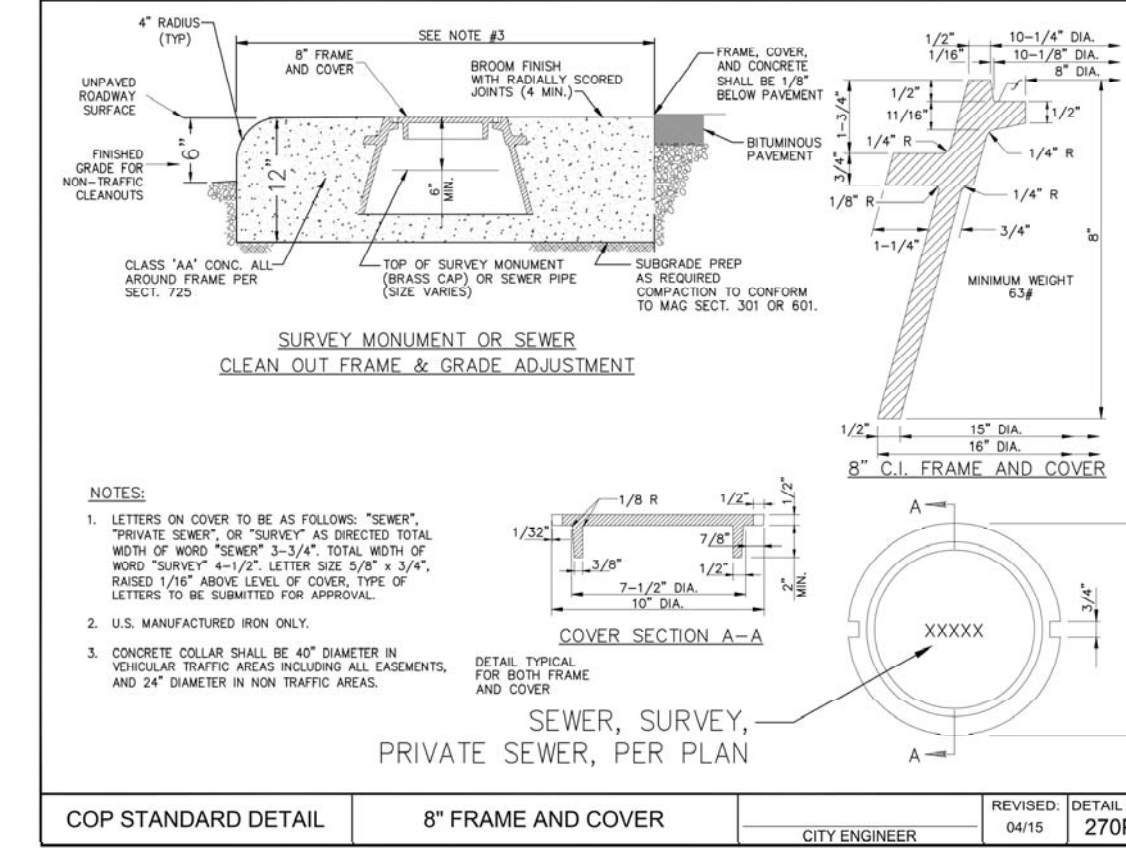
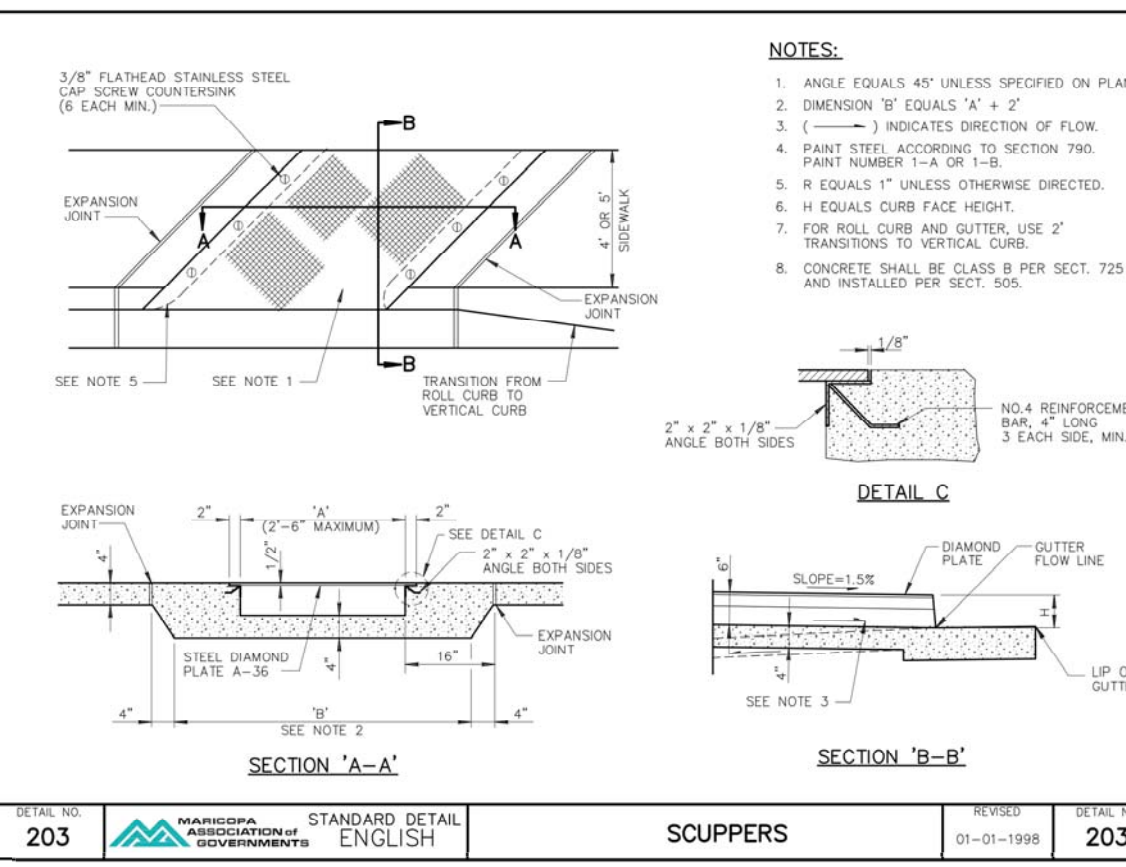
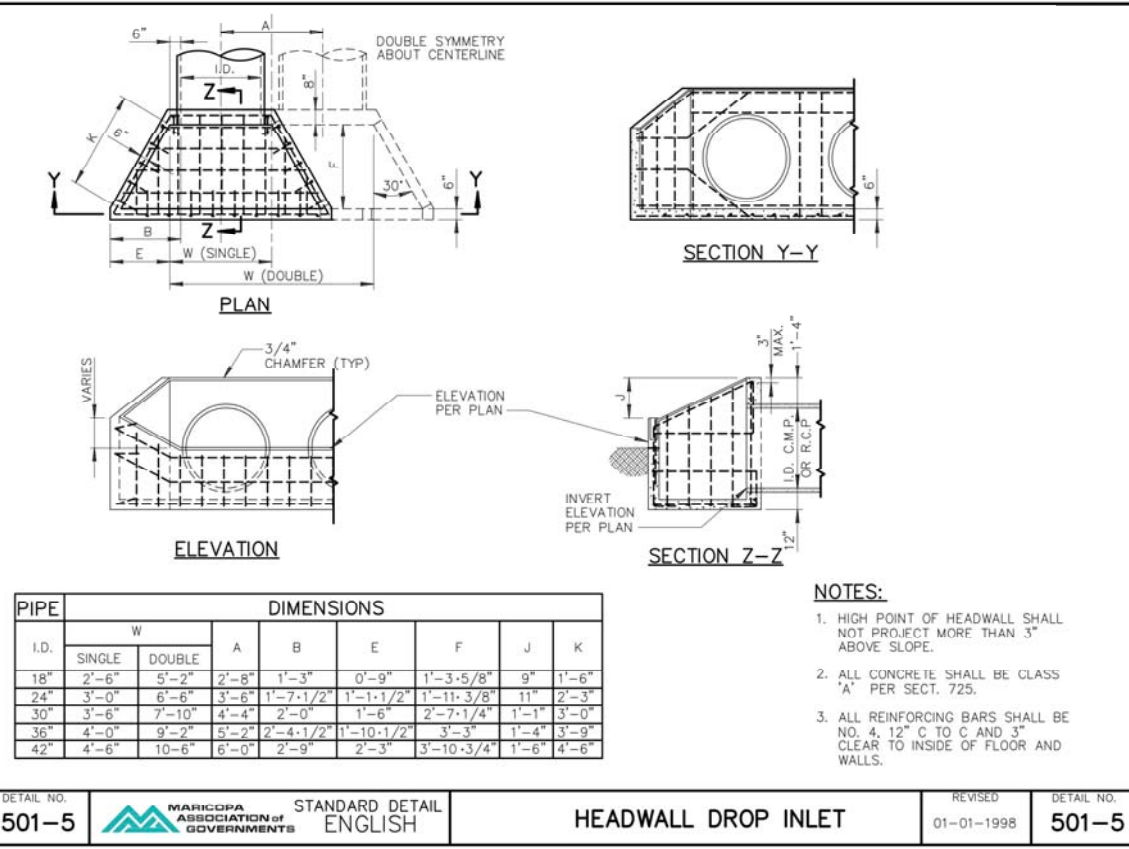
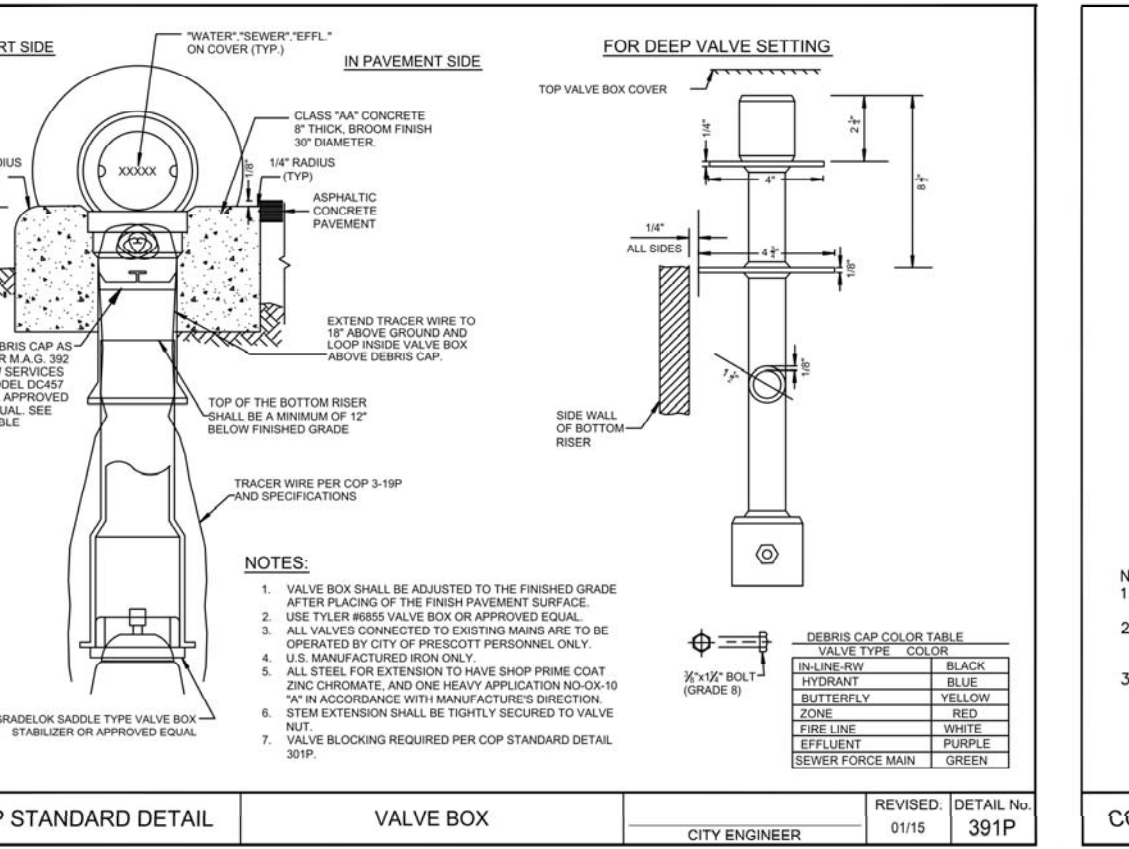
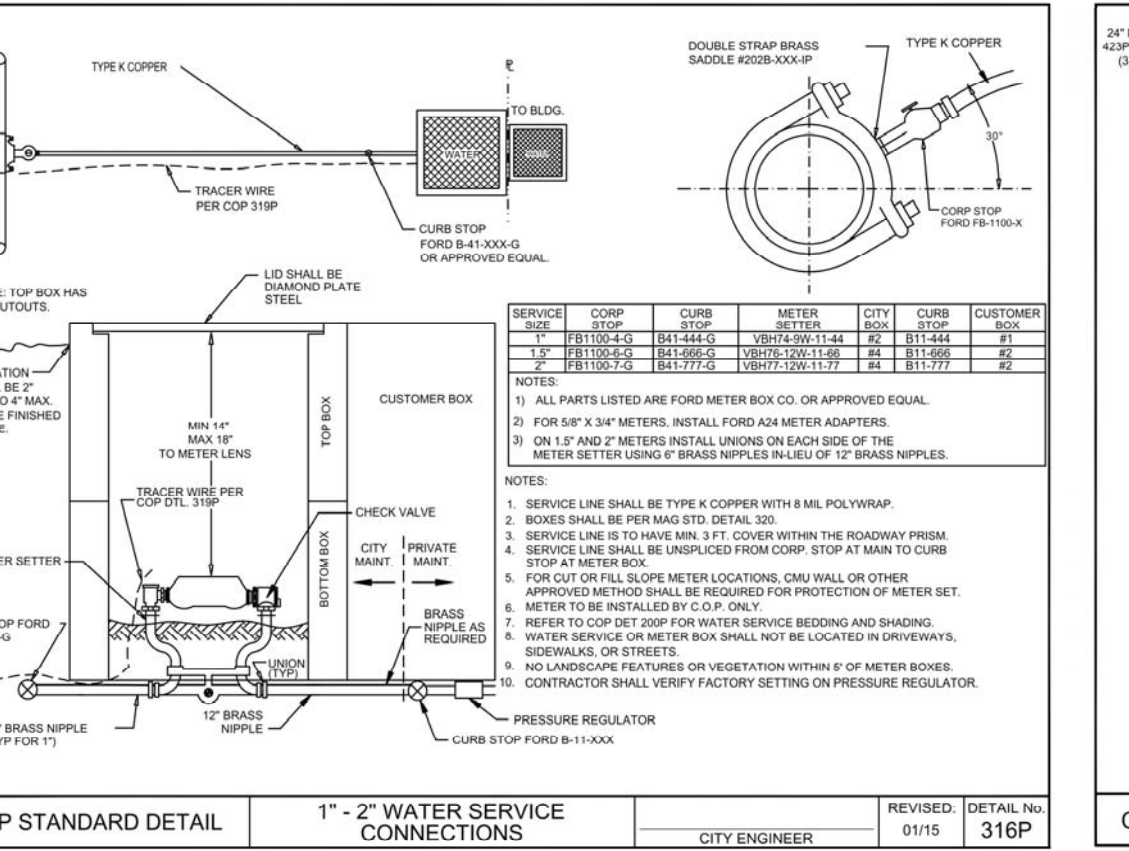
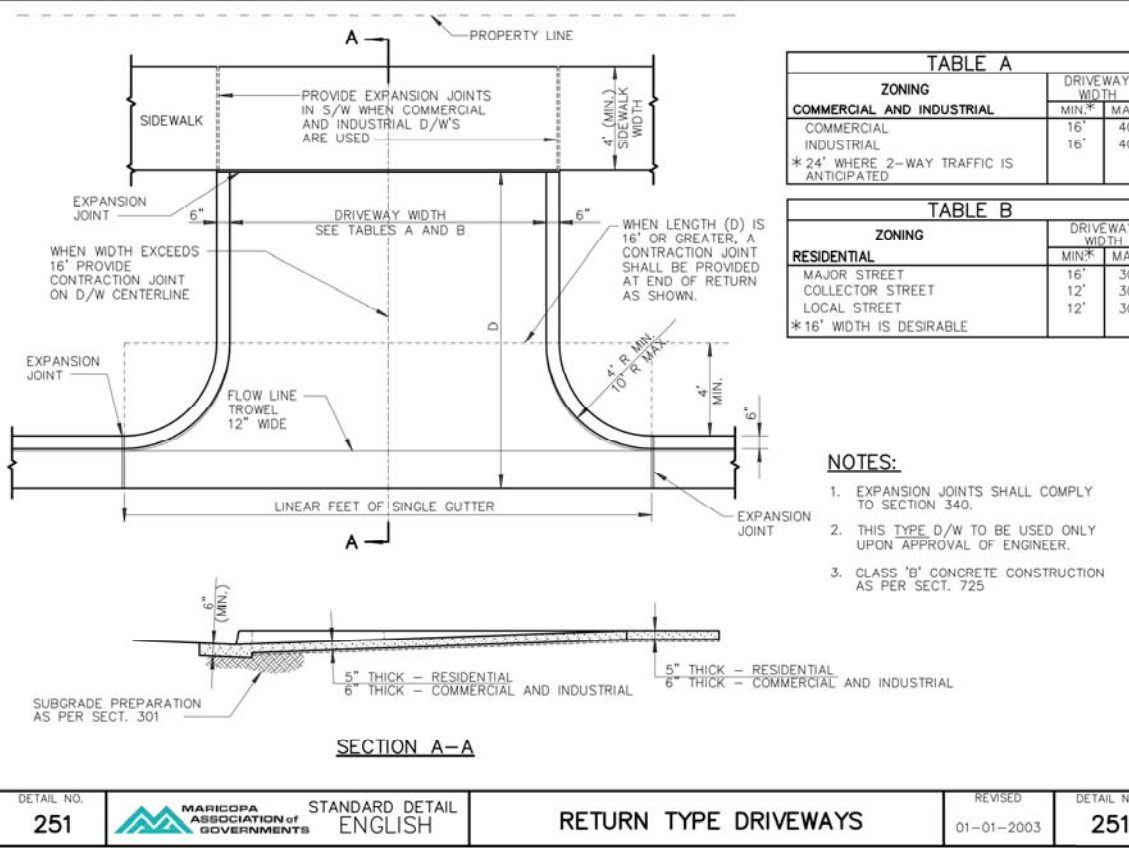
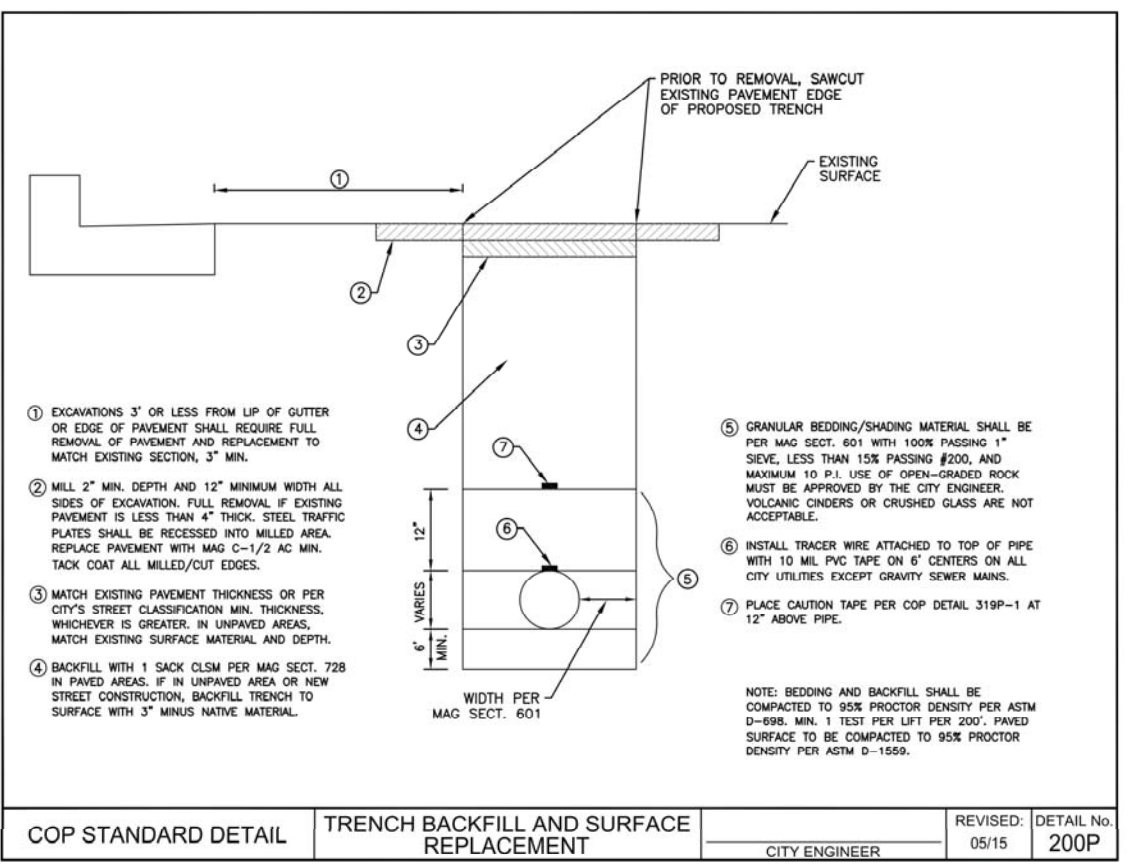
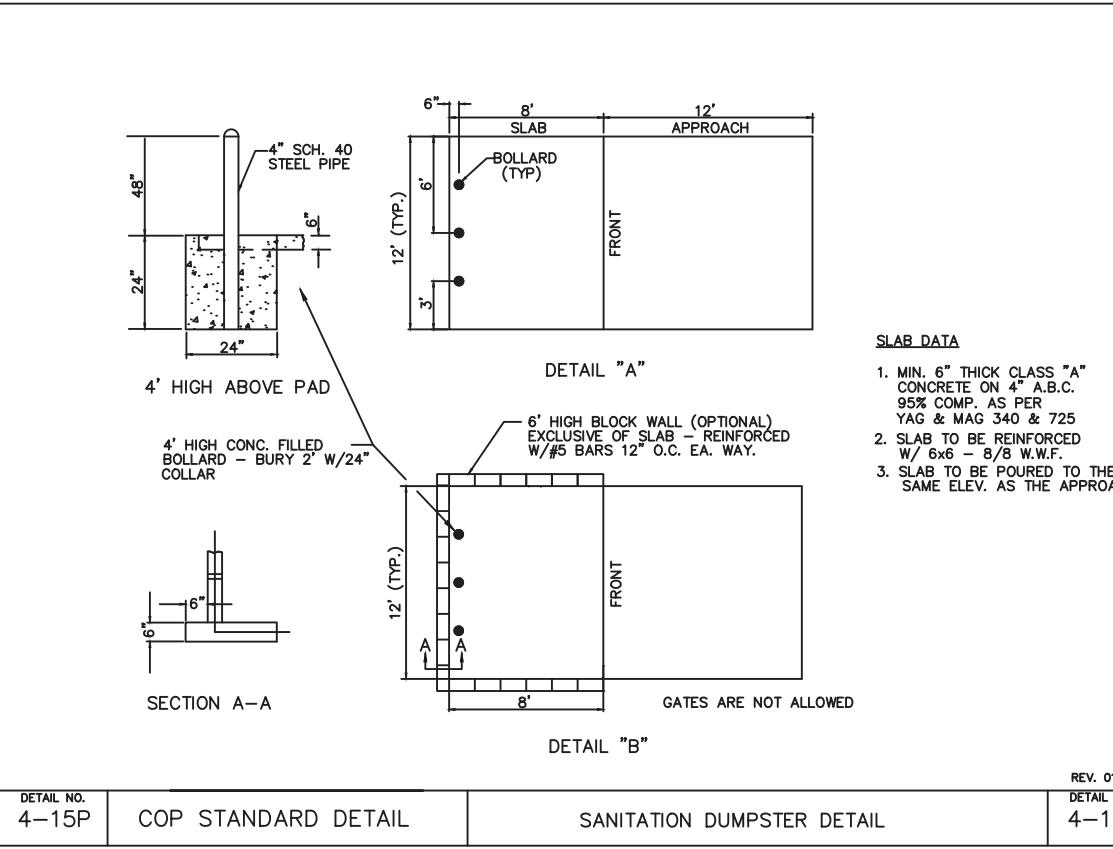
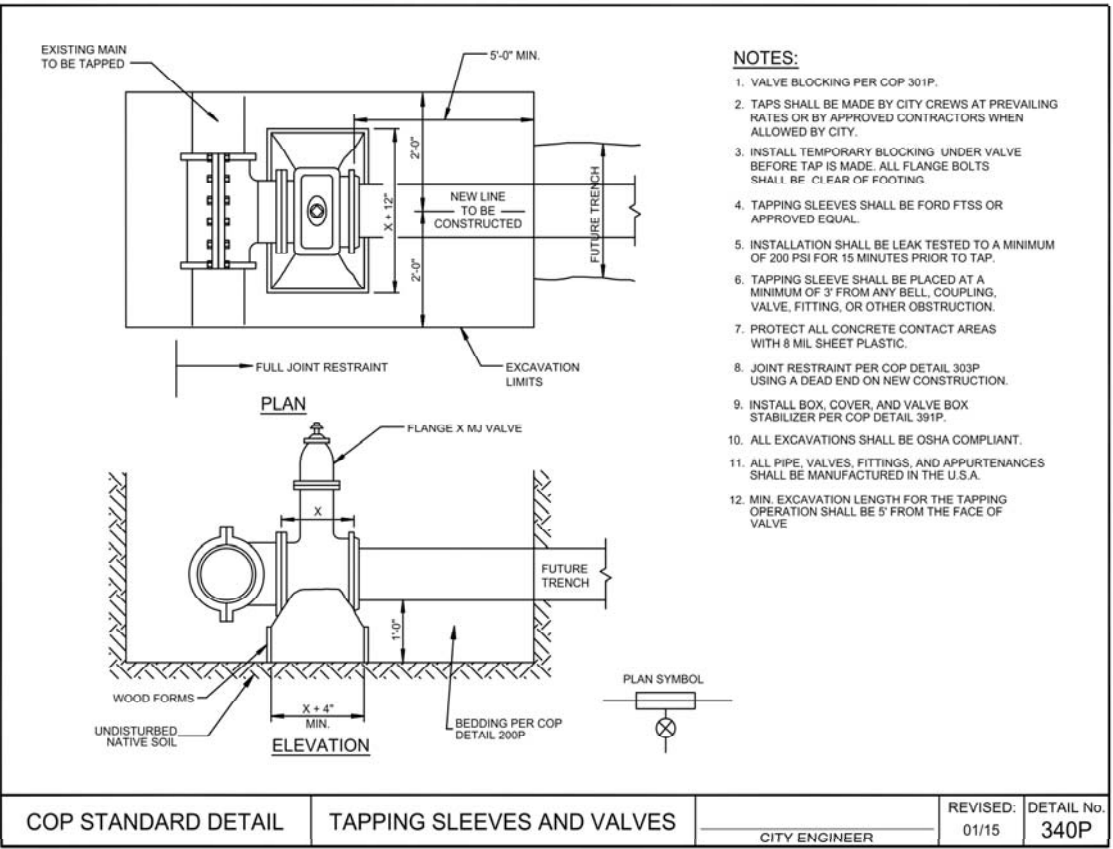
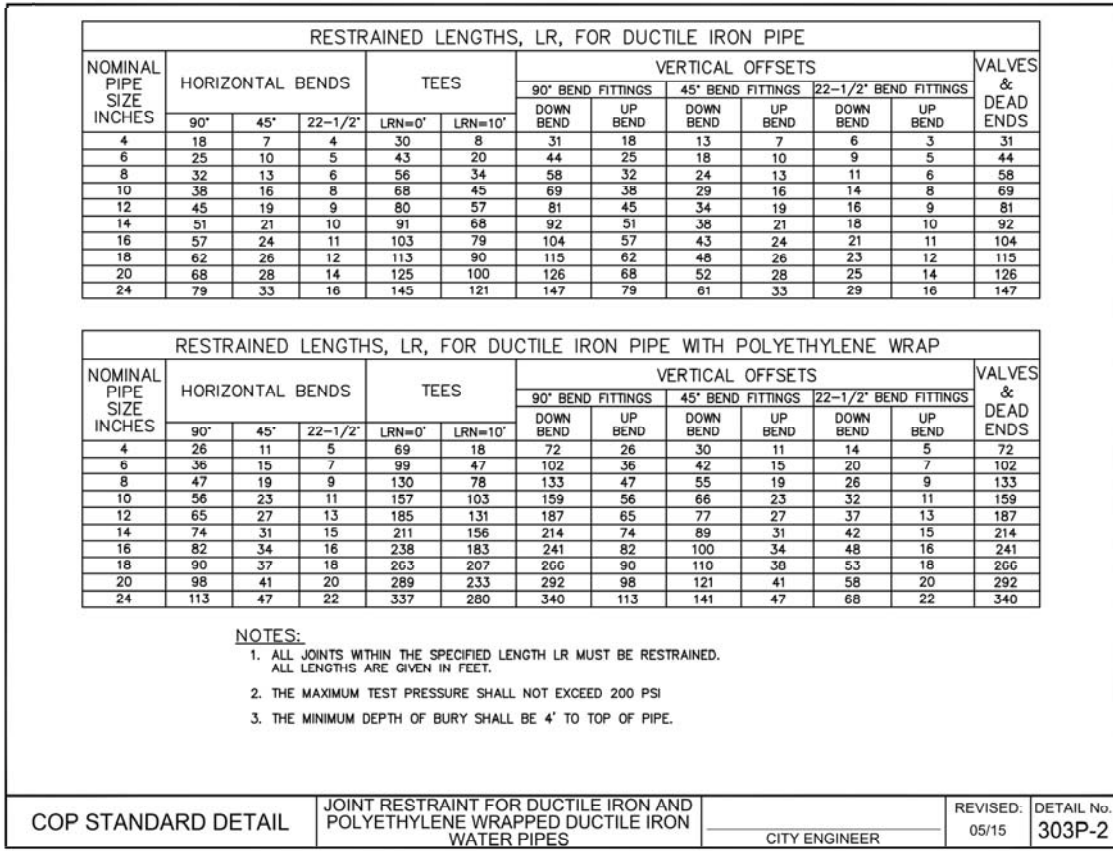
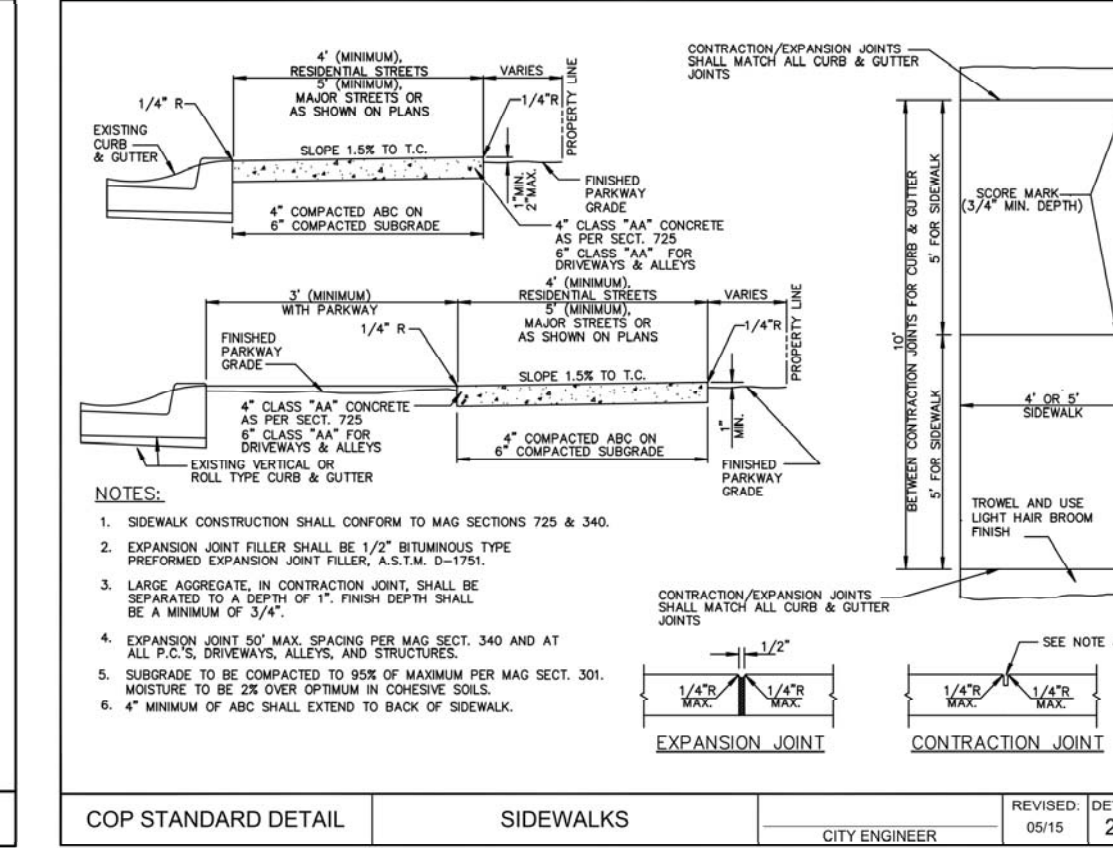
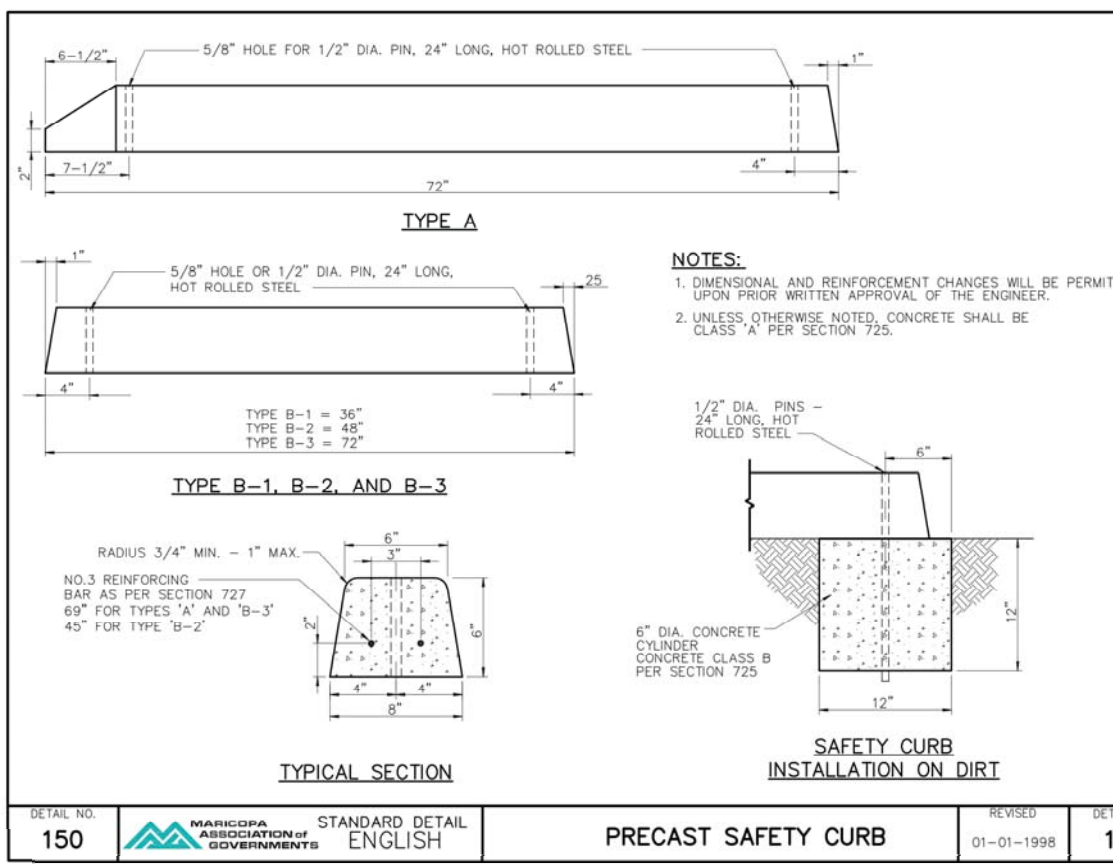
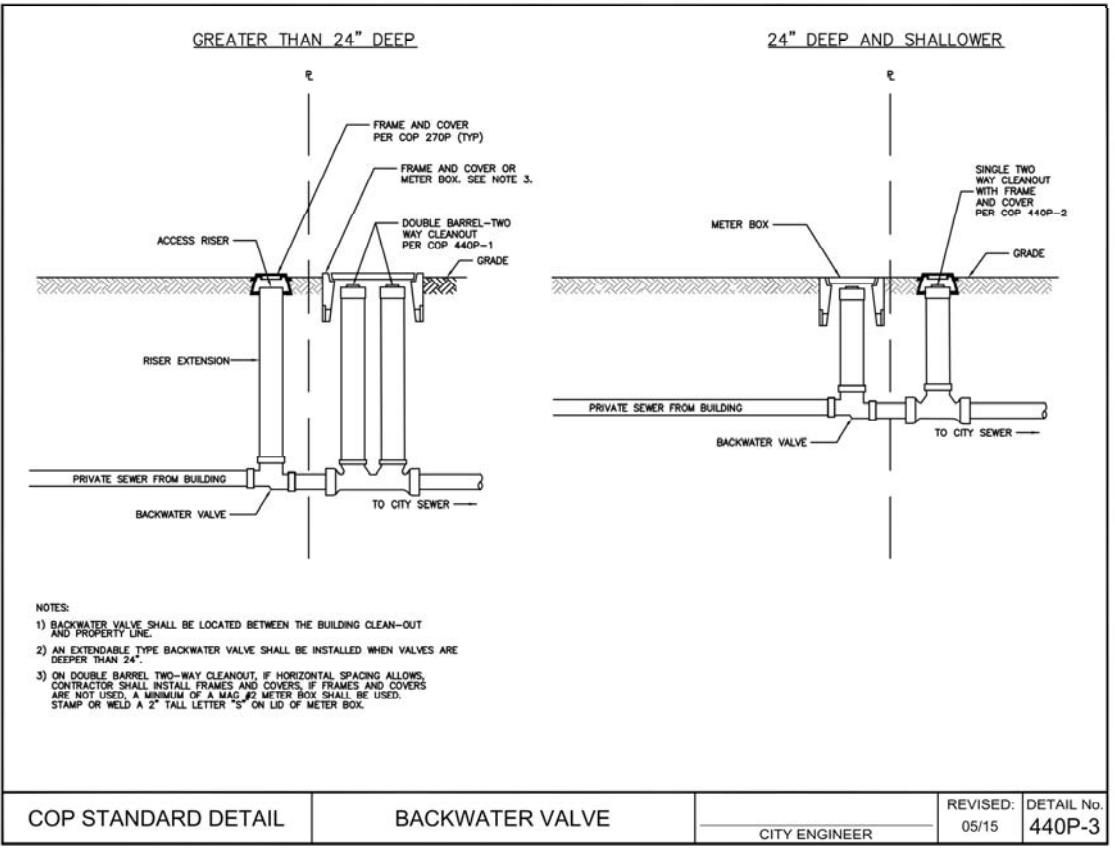
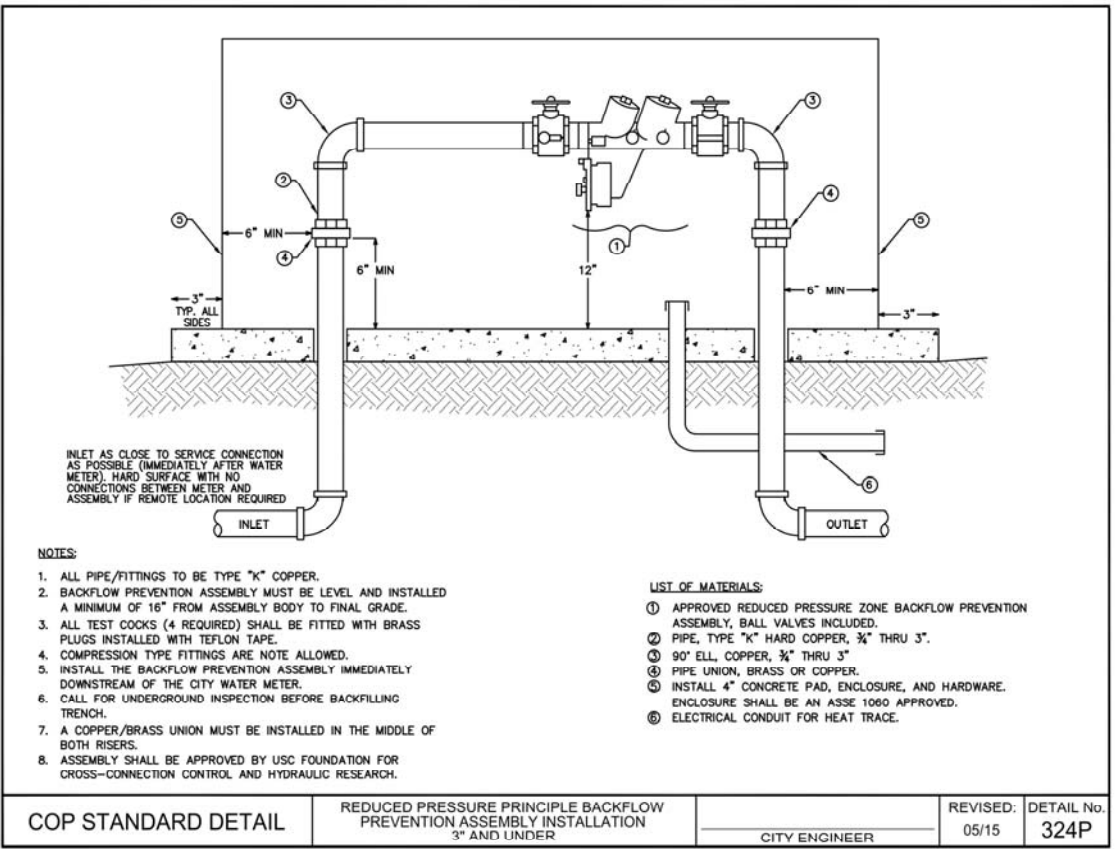
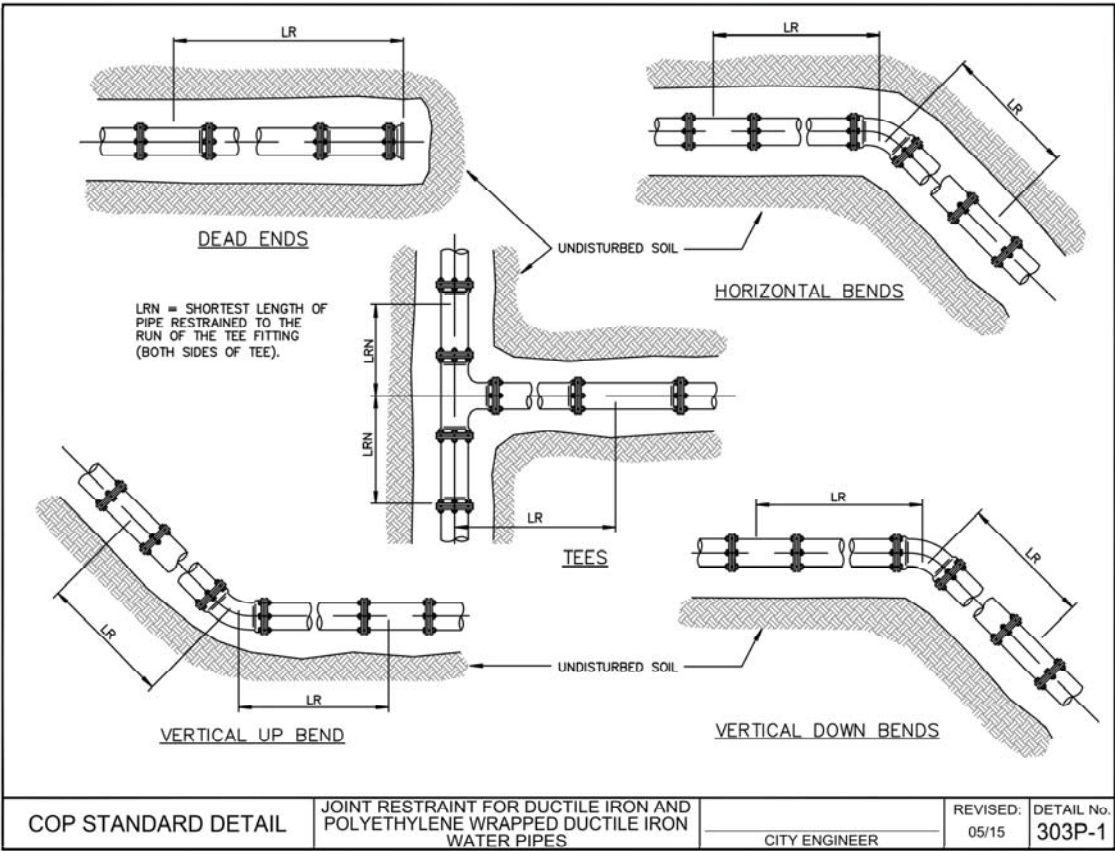
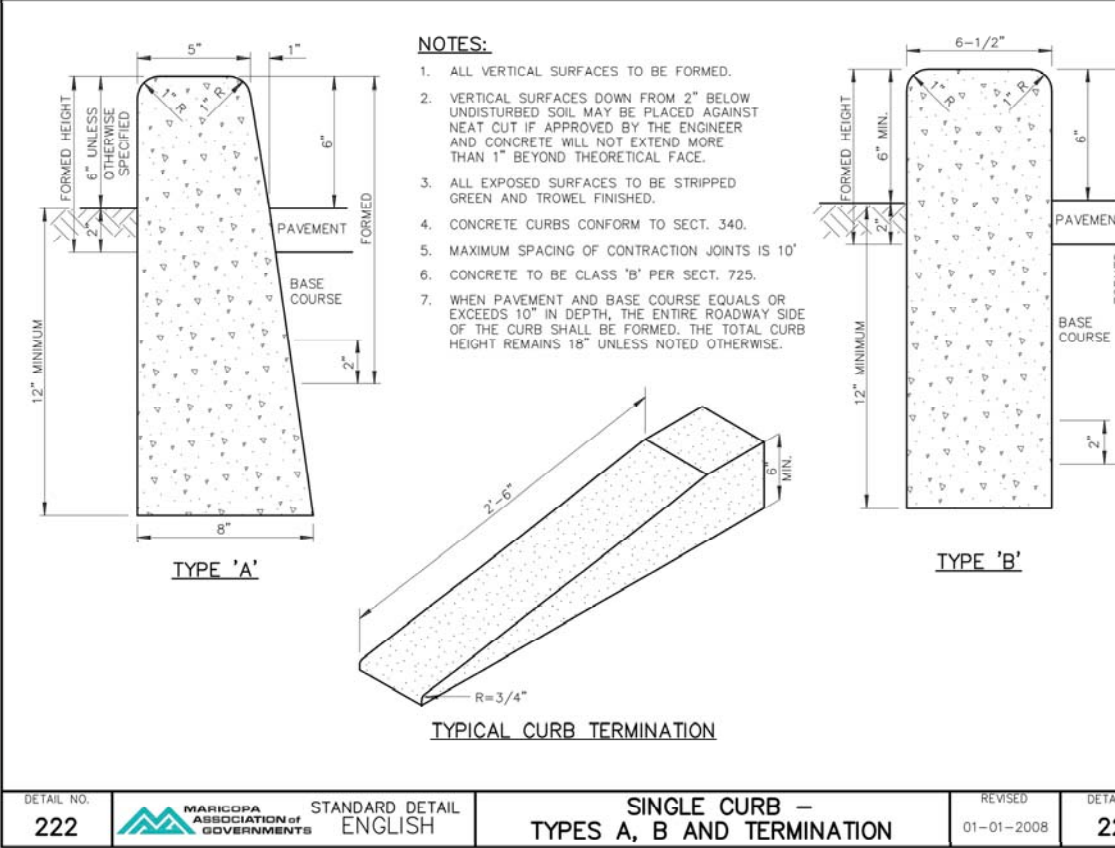
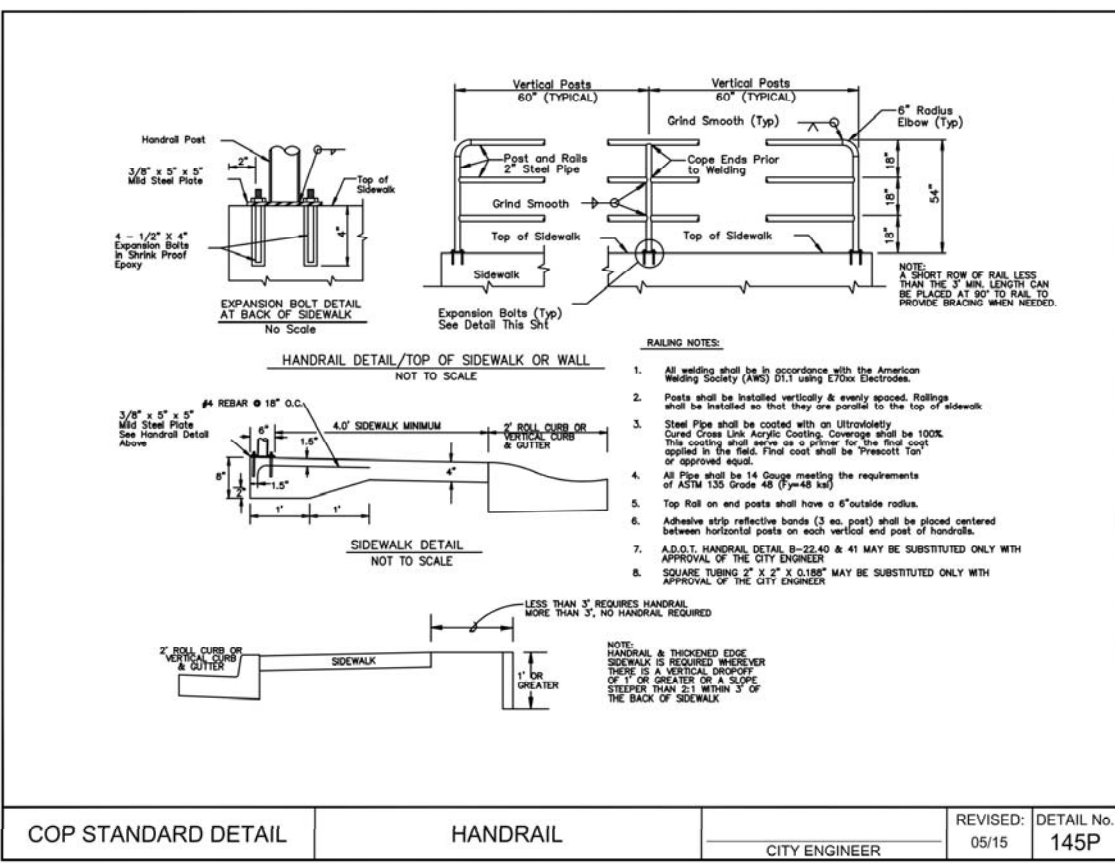
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ARCHITECTURE & PLANNING

DRAWING: STANDARD DETAILS

PROJECT: Heatwave Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

REVISIONS

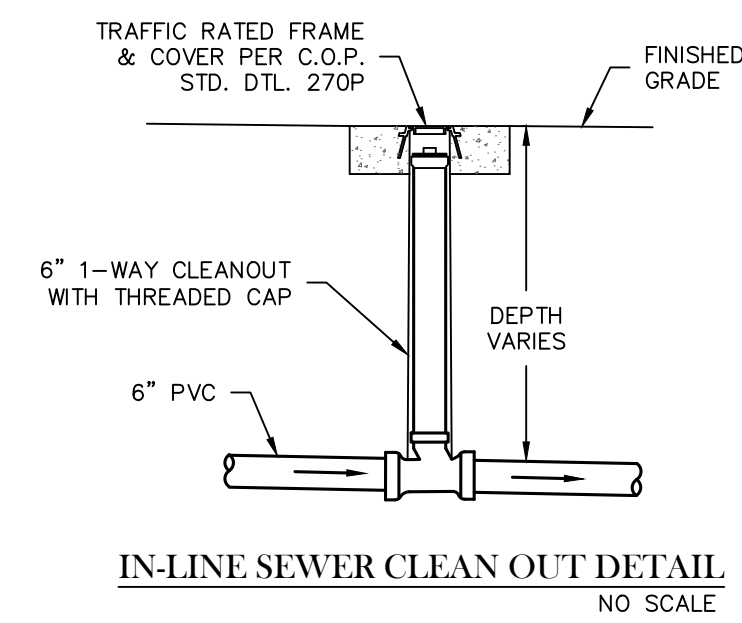
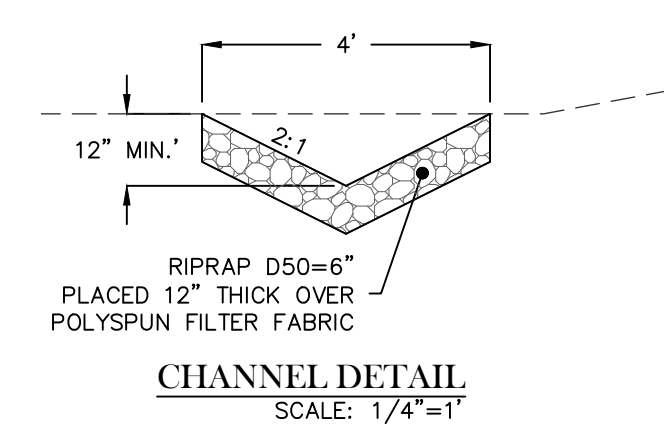
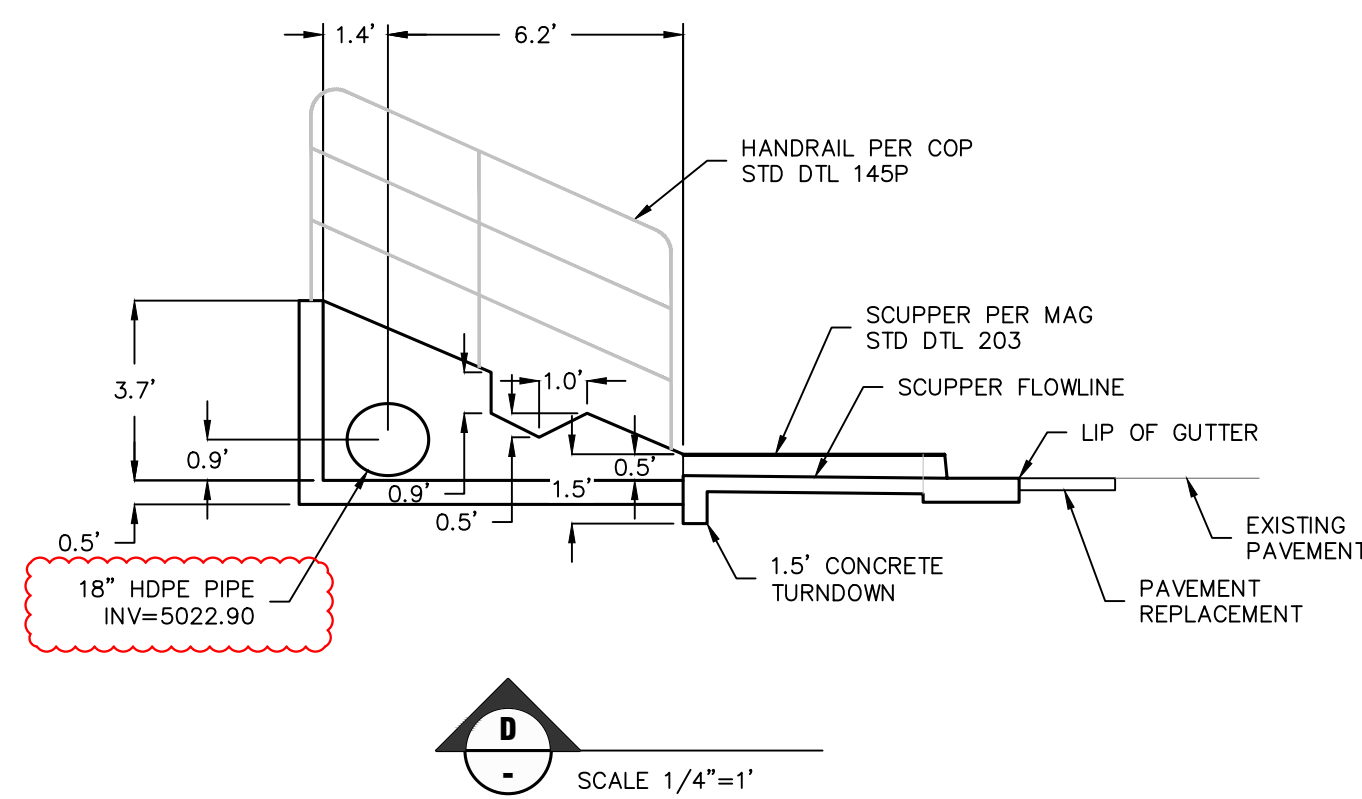
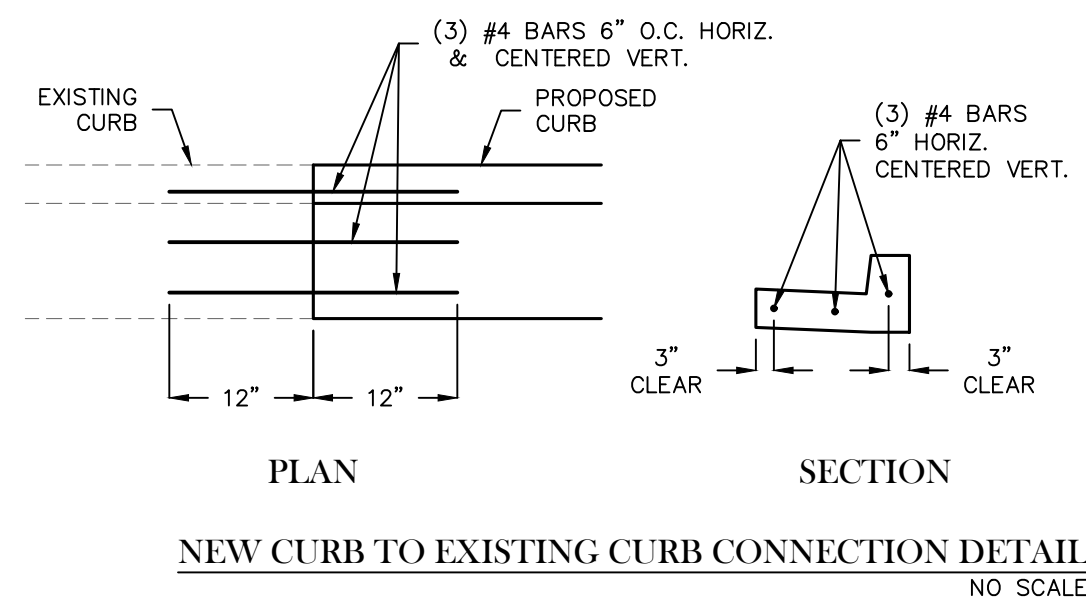
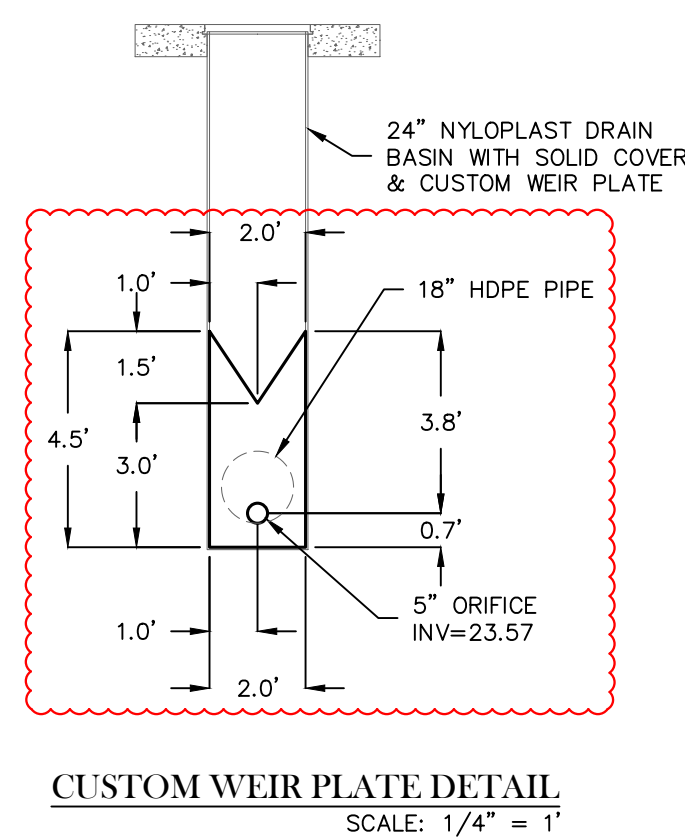
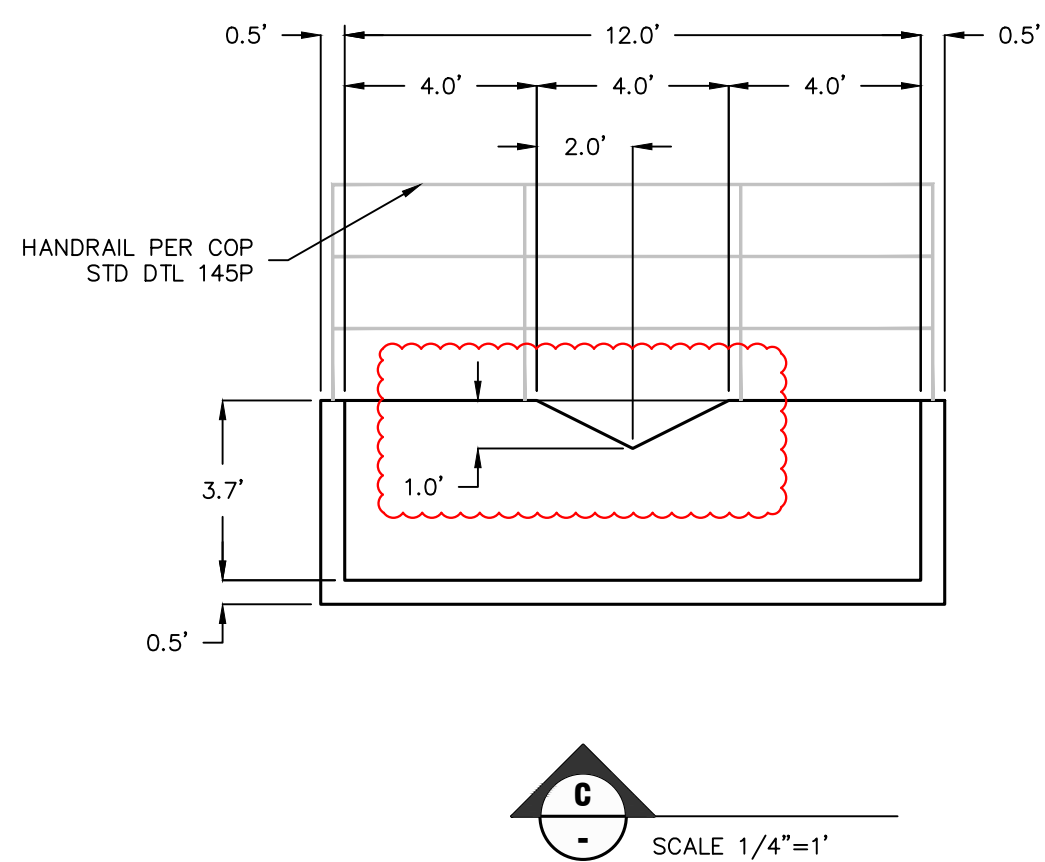
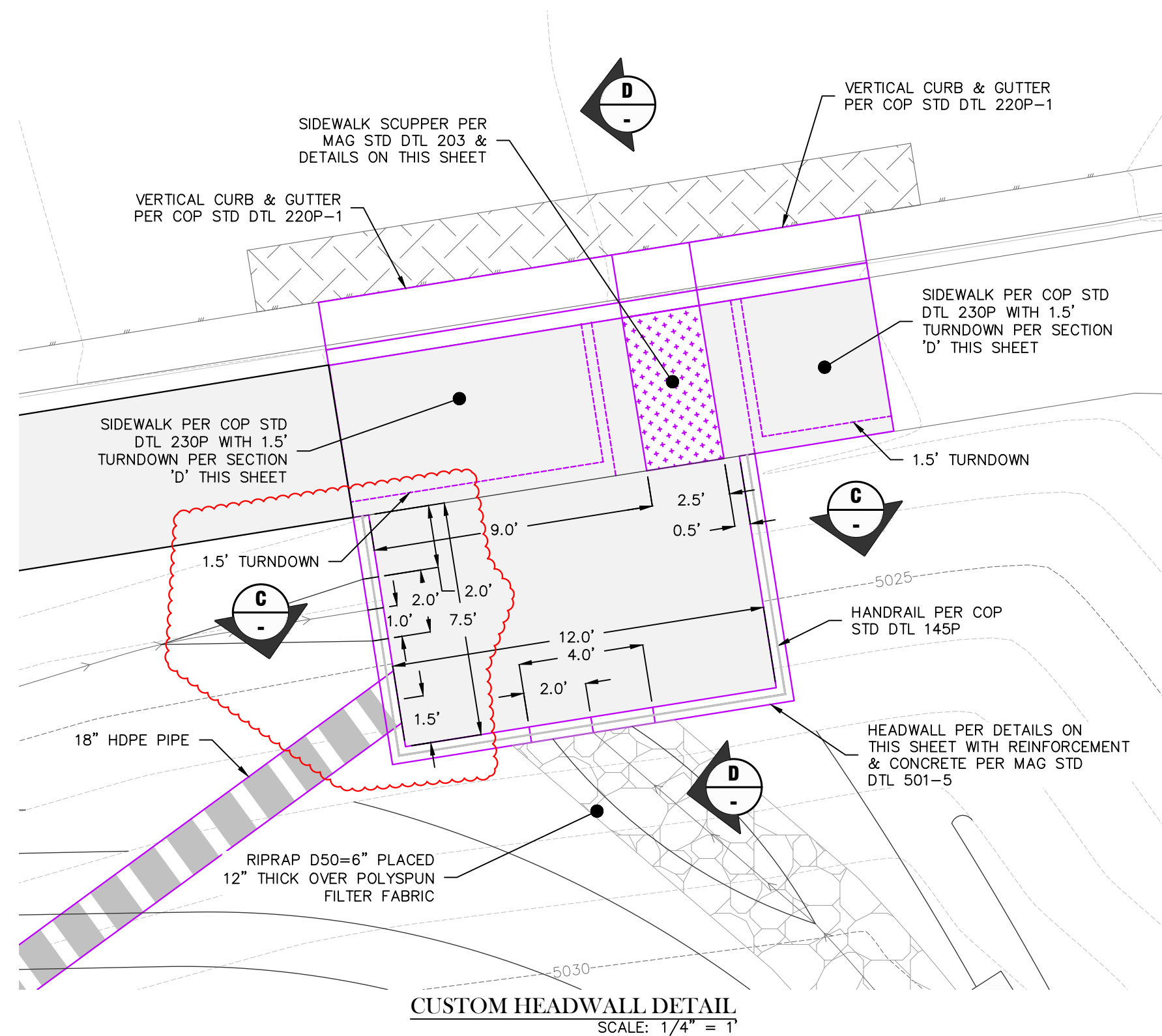
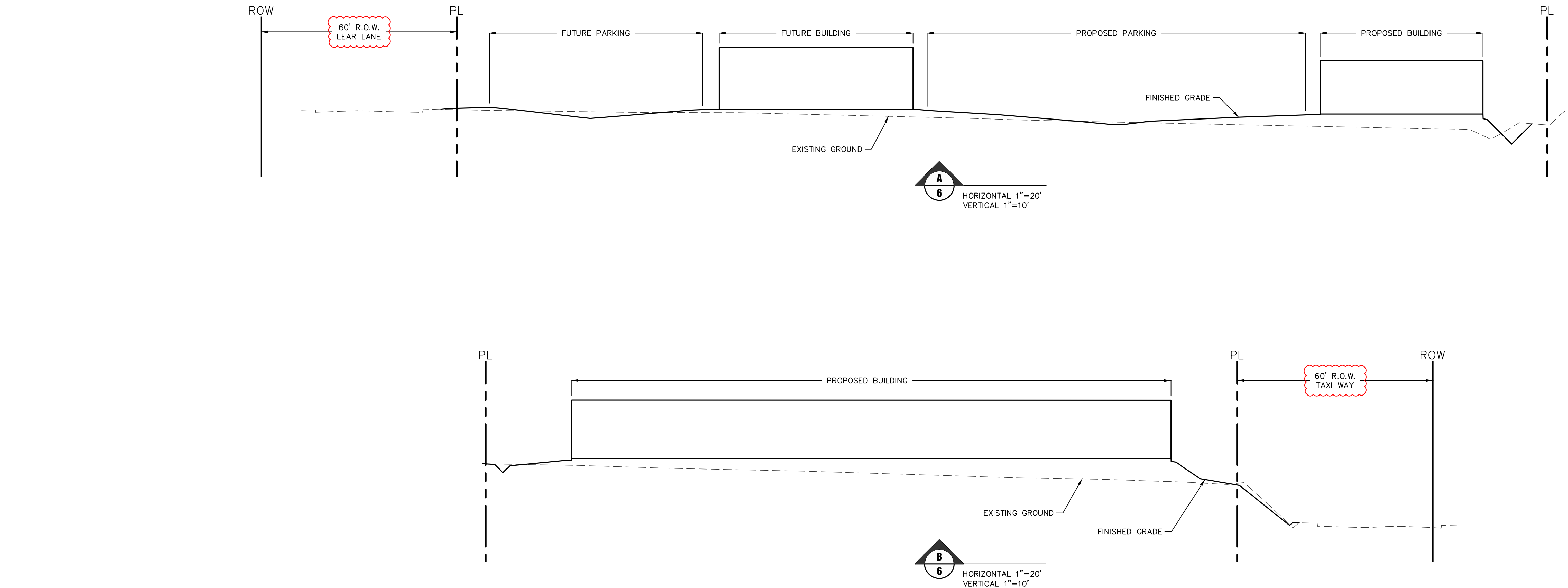
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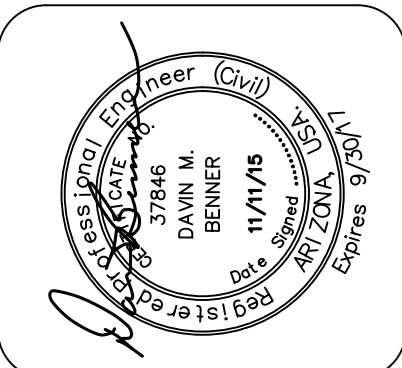
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CHECKED BY DB
DATE 11-11-15
SCALE AS NOTED
JOB NO. 672
SHEET C3



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ARCHITECTURE & PLANNING

DRAWING: SITE SECTIONS & CUSTOM DETAILS

PROJECT: Heatwave Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

DRAWN BY TS
CHECKED BY DB
DATE 11-11-15
SCALE AS NOTED
JOB NO. 672
SHEET C4

Nov 12, 2015 - 9:57am

EXISTING LEGEND

	SUBJECT PARCEL BOUNDARY
	RIGHT-OF-WAY BOUNDARY
	ADJACENT PARCEL BOUNDARY
	EXISTING SETBACK
	EXISTING SLOPE, DRAINAGE & PUBLIC UTILITY EASEMENT
	EXISTING INDEX ELEVATION CONTOUR
	EXISTING INTERMEDIATE ELEVATION CONTOUR
	EXISTING EDGE OF PAVEMENT
	EXISTING DRAINAGE FLOWLINE
	EXISTING ELECTRIC LINE
	EXISTING 6" SEWER LINE
	EXISTING 8" SEWER LINE
	EXISTING WATER LINE
	EXISTING 6" WATER LINE
	EXISTING 8" WATER LINE
	EXISTING 12" WATER LINE
	EXISTING WATER VALVE
	EXISTING WATER AIR RELEASE VALVE
	EXISTING WATER RISER
	EXISTING FIRE HYDRANT
	EXISTING SANITARY SEWER MANHOLE
	EXISTING ELECTRIC RISER
	EXISTING SIGN
	SURVEY HAND HOLE

PROPOSED LEGEND

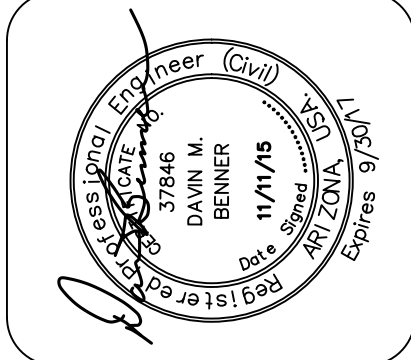
	PROPOSED DRAINAGE FLOWLINE
	PROPOSED ELEVATION CONTOUR
	PROPOSED BLOCK SCREEN WALL (BY OTHERS)
	PROPOSED UNDERGROUND DRY UTILITY LINES (BY OTHERS)
	PROPOSED 8" WATER LINE
	PROPOSED 6" FIRE LINE
	PROPOSED WATER SERVICE LINE
	PROPOSED 6" SEWER LINE
	PROPOSED WATER METER
	PROPOSED REDUCED PRESSURE ZONE ASSEMBLY
	PROPOSED BACKFLOW PREVENTER
	PROPOSED BLOW OFF VALVE
	PROPOSED TEE FITTING
	PROPOSED BEND FITTING
	PROPOSED GATE VALVE
	PROPOSED REMOTE FDC WITH BOLLARDS
	PROPOSED SEWER CLEANOUT
	PROPOSED SEWER BUILDING CONNECTION
	PROPOSED STORM DRAIN PIPE
	PROPOSED DRAIN BASIN
	PROPOSED MANWAY RISER
	PROPOSED STORM DRAIN INLET
	PROPOSED 12" DRAIN BASIN
	PROPOSED PAVEMENT REMOVAL & REPLACEMENT
	PROPOSED ASPHALTIC CONCRETE PAVING
	PROPOSED CONCRETE FLATWORK
	PROPOSED 6" RIPRAP
	PROPOSED CONCRETE TIRE STOP
	PROPOSED CONCRETE SPOT ELEVATION
	PROPOSED PAVEMENT SPOT ELEVATION
	PROPOSED DIRT SPOT ELEVATION

PROJECT QUANTITIES

GENERAL ITEMS		QTY	UNIT
1	MOBILIZATION	1	LS
2	WATER & DUST CONTROL	1	LS
3	CLEARING & GRUBBING	2	ACRE
4	RAW EARTHWORK (CUT) PER GEOTECHNICAL REPORT	1,700	CY
5	RAW EARTHWORK (FILL) PER GEOTECHNICAL REPORT	1,210	CY
EROSION CONTROL PLAN CONSTRUCTION NOTES		QTY	UNIT
1	APPLY TEMPORARY CONSTRUCTION SITE PLANNING & MANAGEMENT WITH CONSTRUCTION & SEQUENCING & BMP INSPECTION & MAINTENANCE PER ADOT BMPS CP-1 & CP-2	1	LS
2	APPLY PERMANENT EROSION CONTROL TO DISTURBED SLOPES PER ADOT BMPS EC-1 THROUGH EC-6 REFER TO LANDSCAPING PLANS FOR SUPPLEMENTAL PERMANENT LANDSCAPING	1	LS
3	APPLY PERMANENT RUNOFF CONTROL WITH DRAINAGE SWALE PER ADOT BMP RC-1	560	LF
4	APPLY TEMPORARY RUNOFF CONTROL WITH CHECK DAM PER ADOT BMP RC-6	3	EA
5	APPLY TEMPORARY SEDIMENT CONTROL WITH SILT FENCE PER ADOT BMP SC-2	785	LF
6	APPLY TEMPORARY SEDIMENT CONTROL WITH SEDIMENT BASIN PER ADOT BMP SC-3	1	EA
7	APPLY TEMPORARY SEDIMENT CONTROL WITH STORM DRAIN INLET PROTECTION PER ADOT BMP SC-8	2	EA
8	APPLY TEMPORARY SEDIMENT CONTROL WITH STABILIZED CONSTRUCTION ENTRANCE/EXIT PER ADOT BMP SC-10	1	EA
9	APPLY TEMPORARY GOOD HOUSEKEEPING WITH MATERIAL DELIVERY & STORAGE AREA PER ADOT BMP GH-5	1	LS
10	APPLY TEMPORARY WASTE MANAGEMENT WITH CONCRETE WASTE MANAGEMENT PER ADOT BMP WM-4	1	EA
SEWER CONSTRUCTION NOTES		QTY	UNIT
1	CONNECT TO EXISTING 6" SEWER SERVICE STUB & INSTALL CLEANOUT IN ROW PER COP STD DTL 440-3P	1	EA
2	INSTALL 6" SEWER SERVICE LATERAL	275	LF
3	INSTALL 6" WYE FITTING	3	EA
4	INSTALL 6" INLINE SEWER CLEAN-OUT PER DETAIL ON SHEET C4	3	EA
5	INSTALL 6" BACKWATER VALVE & 2-WAY BUILDING CLEANOUT PER COP STD DTL 440P-3	2	EA
DRAINAGE CONSTRUCTION NOTES		QTY	UNIT
1	INSTALL 8" SMOOTH BORE HDPE STORMWATER CONVEYANCE PIPE	300	LF
2	INSTALL 18" SMOOTH BORE HDPE STORMWATER CONVEYANCE PIPE	400	LF
3	INSTALL 48" HDPE STORMWATER DETENTION PIPE WITH PRE-FABRICATED END CAPS & 10" MANHOLE ASSEMBLY AS SHOWN	500	LF
4A	INSTALL 4" ADS INSERT-A-TEE FITTING WITH 4" ADS BEND-A-DRAIN EXPANDABLE PIPE & DOWNSPOUT ADAPTER	4	EA
4B	INSTALL 4" ADS BEND-A-DRAIN EXPANDABLE PIPE & DOWNSPOUT ADAPTER & CONNECT TO DRAIN BASIN	1	EA
5	INSTALL 12" NYLOPLAST DRAIN BASIN WITH SOLID COVER	2	EA
6	INSTALL 18" NYLOPLAST INLINE DRAIN WITH 2X3 GRATE & FLEXSTORM INLET FILTER PER MANUFACTURER'S RECOMMENDATIONS	2	EA
7	INSTALL 24" NYLOPLAST DRAIN BASIN WITH SOLID COVER	2	EA
8	INSTALL 24" MANWAY RISER WITH SOLID COVER	5	EA
9	INSTALL 24" NYLOPLAST DRAIN BASIN WITH SOLID COVER & WEIR STRUCTURE PER DETAIL ON SHEET 4	1	EA
10	INSTALL CONCRETE HEADWALL PER DETAILS ON SHEET 4 WITH CONCRETE & REINFORCEMENT SCHEDULE PER MAG STD DTL 501-5 & HANDRAIL PER COP STD DTL 145P	1	EA
11	DRAINAGE CHANNEL PER TYPICAL SECTION ON SHEET C4	84	CY
WATER CONSTRUCTION NOTES		QTY	UNIT
1	INSTALL 12"x6" TAPPING SLEEVE & VALVE PER COP STD DTL 340P	1	EA
2	INSTALL 8" WATER LINE (C-600/CL350 DIP) WITH TRENCHING & BACKFILL PER COP STD DTL 200P & BLUE TRACER WIRE PER COP STD DTL 319P-1	50	LF
3	INSTALL 6" FIRE LINE (C-600/CL350 DIP) WITH TRENCHING & BACKFILL PER COP STD DTL 200P & BLUE TRACER WIRE PER COP STD DTL 319P-1 (TESTABLE DOUBLE CHECK VALVES & PRESSURE RELIEF VALVES TO BE INSTALLED IN FIRE RISER ROOM REFER TO FIRE SPRINKLER PLANS)	185	LF
4A	INSTALL 6" GATE VALVE WITH BLOCKING PER COP STD DTL 301P & VALVE BOX PER COP STD DTL 391P	2	EA
4B	INSTALL 8" GATE VALVE WITH BLOCKING PER COP STD DTL 301P & VALVE BOX PER COP STD DTL 391P	1	EA
5A	INSTALL 8"x6"x6" TEE FITTING FULLY RESTRAINED PER COP STD DTLS 303P-1 & 303P-2	1	EA
5B	INSTALL 6" BEND FITTING FULLY RESTRAINED PER COP STD DTLS 303P-1 & 303P-2	1	EA
6A	INSTALL 1" WATER SERVICE CONNECTION PER COP STD DTL 316P WITH 3/4" WATER METER, 1-1/4" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY PER COP STD DTL 324P & 1-1/4" PRIVATE SERVICE LINE	1	EA
6B	INSTALL 1" WATER SERVICE CONNECTION PER COP STD DTL 316P WITH YOKE & BOX ONLY FOR SERVICE TO FUTURE BUILDING	1	EA
7	INSTALL REMOTE FIRE DEPARTMENT CONNECTION (FDC) WITH BOLLARDS AS SHOWN PER PRESCOTT FIRE DEPARTMENT REQUIREMENTS	1	EA
8	INSTALL 3/4" STUB FOR LANDSCAPE IRRIGATION WITH BACKFLOW PREVENTER REFER TO LANDSCAPING PLANS FOR DETAILS	1	EA
9	INSTALL BLOW-OFF PER COP STD DTL 318P	1	EA
10	INSTALL THREADED CAP ON FIRE LINE STUB & INSTALL TEMPORARY BLOW-OFF PER COP STD DTL 318P	1	EA
PAVING & FLATWORK CONSTRUCTION NOTES		QTY	UNIT
1	SAWCUT, REMOVE & REPLACE EXISTING PAVEMENT PER COP STD DTL 200P	310	SF
2	REMOVE EXISTING VC&G & SIDEWALK & INSTALL SIDEWALK SCUPPER PER MAG STD DTL 203 & SIDEWALK PER COP STD DTL 230P & DETAILS ON SHEET C4 & VC&G PER COP STD DTL 220P-1 (CONNECT TO EXISTING CURB WITH 24" REBARS AS SHOWN ON DETAIL ON SHEET C4)	1	EA
3	REMOVE EXISTING VC&G & SIDEWALK AND INSTALL DRIVEWAY ENTRANCE PER MAG STD DTL 251 (CONNECT TO EXISTING CURB WITH 24" REBARS AS SHOWN ON DETAIL SHEET C4)	2	EA
4	INSTALL TYPE B SINGLE CURB & TERMINATIONS PER MAG STD DTL 222	780	LF
5	REMOVE & REPLACE CONCRETE SIDEWALK PER COP STD DTL 230P	245	SF
6	INSTALL SANITATION DUMPSTER PER COP STD DTL 4-15P	1	EA
7	INSTALL 4" ASPHALT CONCRETE (AC) OVER 6" AGGREGATE BASE (AB) OVER 8" PREPARED SUBGRADE PER GEOTECHNICAL REPORT	3,050	SY
8	INSTALL CONCRETE SLAB REFER TO ARCHITECTURAL SITE PLAN FOR STRUCTURAL DETAILS	145	SY
9	INSTALL PRECAST CONCRETE TIRE STOPS PER MAG STD DTL 150	20	EA
10	APPLY WHITE PAINT PARKING STALL STRIPING	1	LS
11	APPLY WHITE PAINT GORE STRIPING	1	LS
12	APPLY WHITE PAINT HANDICAP SYMBOL	1	EA

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ARCHITECTURE & PLANNING

DRAWING: QUANTITIES & LEGEND

PROJECT: Heatwale Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

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TS

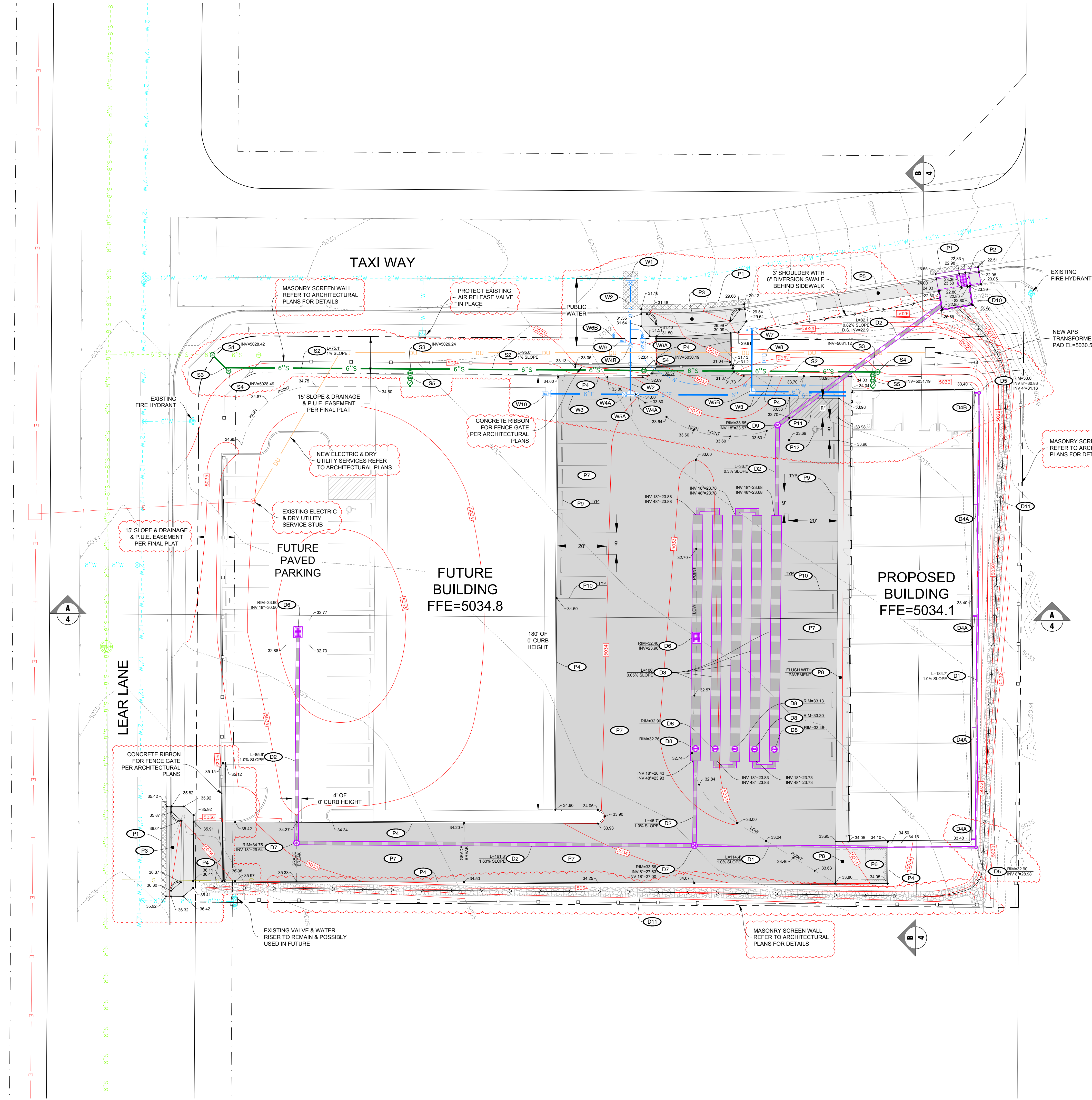
CHECKED BY
DB

DATE
11-11-15

SCALE
AS NOTED

JOB NO.
672

SHEET
C5



SEWER CONSTRUCTION NOTES	
1	CONNECT TO EXISTING 6" SEWER SERVICE STUB & INSTALL CLEANOUT IN ROW PER COP STD DTL 440-3P
2	INSTALL 6" SEWER SERVICE LATERAL
3	INSTALL 6" WYE FITTING
4	INSTALL 6" INLINE SEWER CLEAN-OUT PER DETAIL ON SHEET C4
5	INSTALL 6" BACKWATER VALVE & 2-WAY BUILDING CLEANOUT PER COP STD DTL 440P-3
DRAINAGE CONSTRUCTION NOTES	
1	INSTALL 8" SMOOTH BORE HDPE STORMWATER CONVEYANCE PIPE
2	INSTALL 18" SMOOTH BORE HDPE STORMWATER CONVEYANCE PIPE
3	INSTALL 48" HDPE STORMWATER DETENTION PIPE WITH PRE-FABRICATED END CAPS & 18" MANIFOLD ASSEMBLIES AS SHOWN
4A	INSTALL 4"x8" ADS INSERT-A-TEE FITTING WITH 4" ADS BEND-A-DRAIN EXPANDABLE PIPE & DOWNSPOUT ADAPTER
4B	INSTALL 4" ADS BEND-A-DRAIN EXPANDABLE PIPE & DOWNSPOUT ADAPTER & CONNECT TO DRAIN BASIN
5	INSTALL 12" NYLOPLAST DRAIN BASIN WITH SOLID COVER
6	INSTALL 18" NYLOPLAST INLINE DRAIN WITH 2'X3' GRATE & FLEXSTORM INLET FILTER PER MANUFACTURER'S RECOMMENDATIONS
7	INSTALL 24" NYLOPLAST DRAIN BASIN WITH SOLID COVER
8	INSTALL 24" MANWAY RISER WITH SOLID COVER
9	INSTALL 24" NYLOPLAST DRAIN BASIN WITH SOLID COVER & WEIR STRUCTURE PER DETAIL ON SHEET 4
10	INSTALL CONCRETE HEADWALL PER DETAILS ON SHEET 4 WITH CONCRETE & REINFORCEMENT SCHEDULE PER MAG STD DTL 501-S & HANDRAIL PER COP STD DTL 146P
11	DRAINAGE CHANNEL PER TYPICAL SECTION ON SHEET C4
WATER CONSTRUCTION NOTES	
1	INSTALL 12"x8" TAPPING SLEEVE & VALVE PER COP STD DTL 340P
2	INSTALL 8" WATER LINE (C-600/CL350 DIP) WITH TRENCHING & BACKFILL PER COP STD DTL 200P & BLUE TRACER WIRE PER COP STD DTL 319P-1
3	INSTALL 6" FIRE LINE (C-600/CL350 DIP) WITH TRENCHING & BACKFILL PER COP STD DTL 200P & BLUE TRACER WIRE PER COP STD DTL 319P-1 (TESTABLE DOUBLE CHECK VALVES & PRESSURE RELIEF VALVES TO BE INSTALLED IN FIRE RISER ROOM REFER TO FIRE SPRINKLER PLANS)
4A	INSTALL 8" GATE VALVE WITH BLOCKING PER COP STD DTL 301P & VALVE BOX PER COP STD DTL 391P
4B	INSTALL 8" GATE VALVE WITH BLOCKING PER COP STD DTL 301P & VALVE BOX PER COP STD DTL 391P
5A	INSTALL 8"x6"x6" TEE FITTING FULLY RESTRAINED PER COP STD DTL 303P-1 & 303P-2
5B	INSTALL 6" BEND FITTING FULLY RESTRAINED PER COP STD DTL 303P-1 & 303P-2
6A	INSTALL 1" WATER SERVICE CONNECTION PER COP STD DTL 318P WITH 3/4" WATER METER 1-1/4" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY PER COP STD DTL 324P & 1-1/4" PRIVATE SERVICE LINE
6B	INSTALL 1" WATER SERVICE CONNECTION PER COP STD DTL 318P WITH YOKE & BOX ONLY FOR SERVICE TO FUTURE BUILDING
7	INSTALL REMOTE FIRE DEPARTMENT CONNECTION (FDC) WITH BOLLARDS AS SHOWN PER PRESCOTT FIRE DEPARTMENT REQUIREMENTS
8	INSTALL 3/4" STUB FOR LANDSCAPE IRRIGATION WITH BACKFLOW PREVENTER REFER TO LANDSCAPING PLANS FOR DETAILS
9	INSTALL BLOW-OFF PER COP STD DTL 318P
10	INSTALL THREADED CAP ON FIRE LINE STUB & INSTALL TEMPORARY BLOW-OFF PER COP STD DTL 318P
PAVING & FLATWORK CONSTRUCTION NOTES	
1	SAWCUT, REMOVE & REPLACE EXISTING PAVEMENT PER COP STD DTL 200P
2	REMOVE EXISTING VC&G & SIDEWALK & INSTALL SIDEWALK SCUPPER PER MAG STD DTL 203 & SIDEWALK PER COP STD DTL 230P & DETAILS ON SHEET C4 & VC&G PER COP STD DTL 220P-1 (CONNECT TO EXISTING CURB WITH 24" REBARS AS SHOWN ON DETAIL ON SHEET C4)
3	REMOVE EXISTING VC&G & SIDEWALK AND INSTALL DRIVEWAY ENTRANCE PER MAG STD DTL 251 (CONNECT TO EXISTING CURB WITH 24" REBARS AS SHOWN ON DETAIL SHEET C4)
4	INSTALL TYPE 'B' SINGLE CURB & TERMINATIONS PER MAG STD DTL 222
5	REMOVE & REPLACE CONCRETE SIDEWALK PER COP STD DTL 230P
6	INSTALL SANITATION DUMPSTER PER COP STD DTL 4-15P
7	INSTALL 4" ASPHALT CONCRETE (AC) OVER 6" AGGREGATE BASE (AB) OVER 8" PREPARED SUBGRADE PER GEOTECHNICAL REPORT
8	INSTALL CONCRETE SLAB REFER TO ARCHITECTURAL SITE PLAN FOR STRUCTURAL DETAILS
9	INSTALL PRECAST CONCRETE TIRE STOPS PER MAG STD DTL 150
10	APPLY WHITE PAINT PARKING STALL STRIPING
11	APPLY WHITE PAINT GORE STRIPING
12	APPLY WHITE PAINT HANDICAP SYMBOL

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DRAWING: GRADING, DRAINAGE & UTILITY PLAN

PROJECT: Heatwave Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

ARCHITECTURE & PLANNING

W. Alan Kenson & Associates, P.C.

DRAWN BY

TS

CHECKED BY

DB

DATE

11-11-15

SCALE

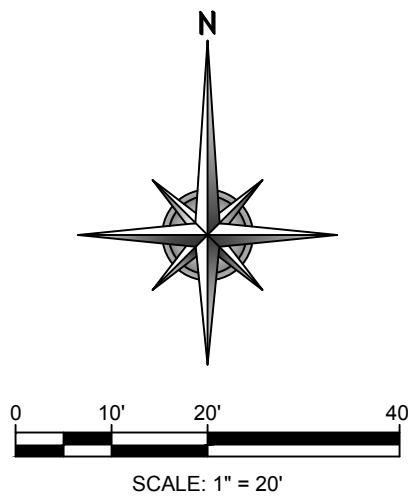
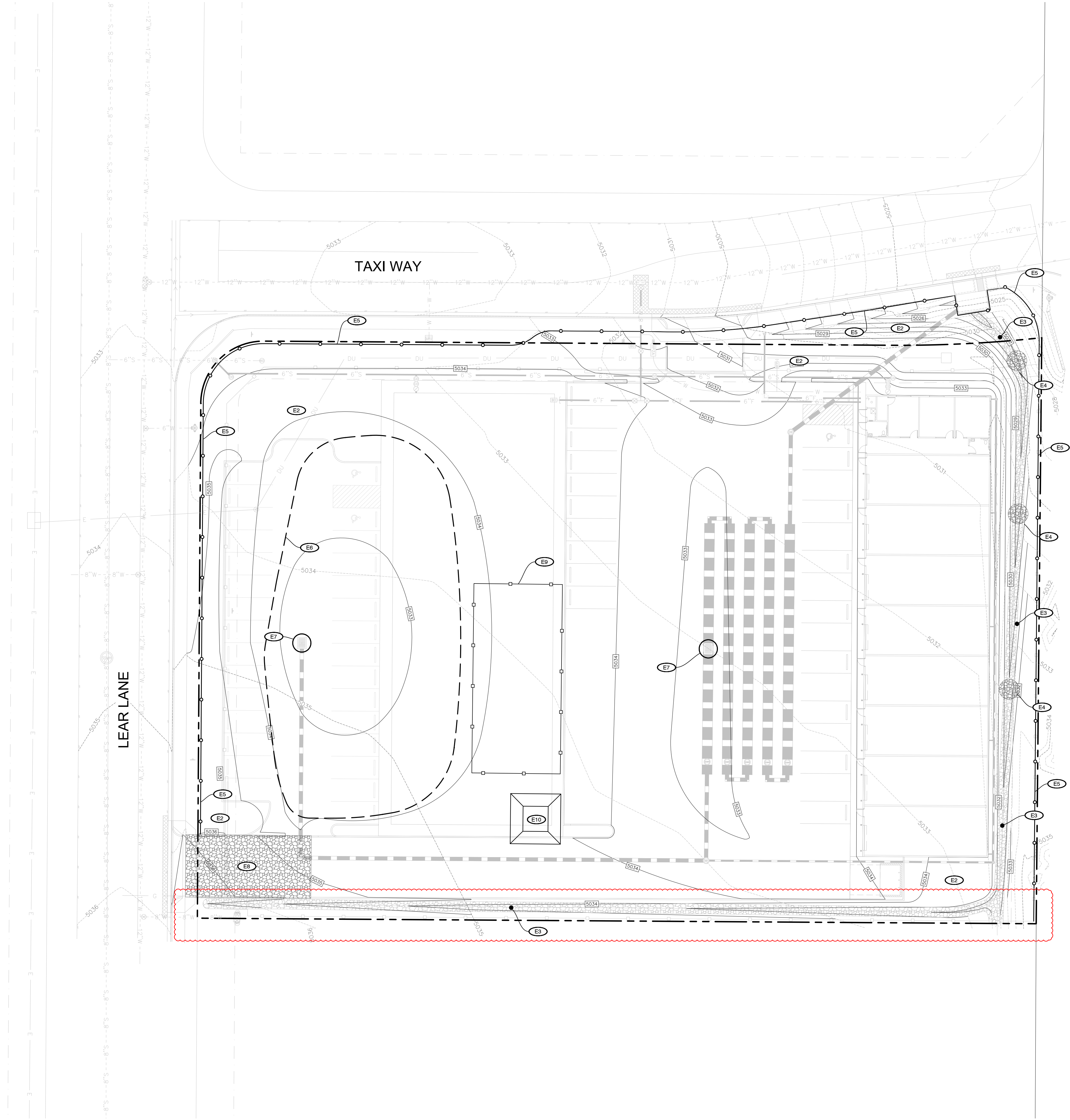
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JOB NO.

672

SHEET

C6

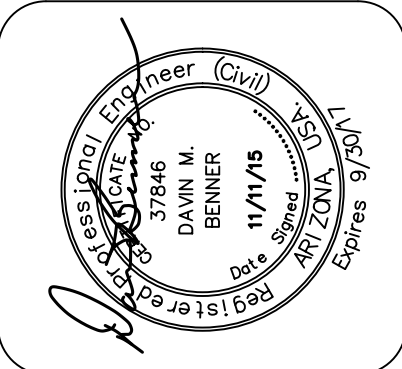


E EROSION CONTROL PLAN CONSTRUCTION NOTES	
1	APPLY TEMPORARY CONSTRUCTION SITE PLANNING & MANAGEMENT WITH CONSTRUCTION & SEQUENCING & BMP INSPECTION & MAINTENANCE PER ADOT BMPs CP-1 & CP-2
2	APPLY PERMANENT EROSION CONTROL TO DISTURBED SLOPES PER ADOT BMPs EC-1 THROUGH EC-6 REFER TO LANDSCAPING PLANS FOR SUPPLEMENTAL PERMANENT LANDSCAPING
3	APPLY PERMANENT RUNOFF CONTROL WITH DRAINAGE SWALE PER ADOT BMP RC-1
4	APPLY TEMPORARY RUNOFF CONTROL WITH CHECK DAM PER ADOT BMP RC-6
5	APPLY TEMPORARY SEDIMENT CONTROL WITH SILT FENCE PER ADOT BMP SC-2
6	APPLY TEMPORARY SEDIMENT CONTROL WITH SEDIMENT BASIN PER ADOT BMP SC-3
7	APPLY TEMPORARY SEDIMENT CONTROL WITH STORM DRAIN INLET PROTECTION PER ADOT BMP SC-8
8	APPLY TEMPORARY SEDIMENT CONTROL WITH STABILIZED CONSTRUCTION ENTRANCE/EXIT PER ADOT BMP SC-10
9	APPLY TEMPORARY GOOD HOUSEKEEPING WITH MATERIAL DELIVERY & STORAGE AREA PER ADOT BMP GH-5
10	APPLY TEMPORARY WASTE MANAGEMENT WITH CONCRETE WASTE MANAGEMENT PER ADOT BMP WM-4

- EROSION CONTROL PLAN NOTES
- A. TOTAL SITE AREA = 1.77 ACRES.
- B. TOTAL AREA OF DISTURBANCE = 1.77 ACRES.
- C. KEEP SITE CLEAN OF DUST AND DEBRIS. LIMIT DUST TO LOWEST PRACTICABLE LEVEL BY SPRINKLING WITH WATER.
- D. CONSTRUCTION ACTIVITIES AND CONSTRUCTION SUPPORTED ACTIVITIES AND GRADING SHALL BE CONTAINED WITHIN THE PROPERTY BOUNDARY AND EASEMENTS.
- E. POLLUTANT GENERATING WASH DOWN, FUELING, AND MAINTENANCE ACTIVITIES SHALL BE CONDUCTED WITHIN THE DESIGNATED EQUIPMENT/MATERIAL STORAGE AREA.
- F. VEHICLES SHALL ONLY ENTER AND EXIT THROUGH THE STABILIZED CONSTRUCTION ENTRANCE.
- G. THIS SITE HAS NO SURFACE WATER BODIES.
- H. NO DRY WELLS ARE PROPOSED FOR THE SUBJECT PROPERTY.
- I. IN THE EVENT OF A SPILL, THE OPERATOR SHALL IMMEDIATELY CONTACT THE FIRE DEPARTMENT, AND THE CITY OF PRESCOTT, AND WITHIN 24 HOURS A.D.E.Q. AT (602-771-2330). REFER TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR FURTHER INSTRUCTIONS.
- J. AN INSPECTION OF THE SITE AND AN INSPECTION REPORT WILL BE COMPLETED EVERY 14 DAYS AND/OR AFTER EVERY RAIN EVENT AND/OR AS INSTRUCTED WITHIN THE S.W.P.P.P.
- K. S.W.P.P.P. DEFICIENCIES THAT OCCUR ON THE SITE SHALL BE REPAIRED OR CORRECTED WITHIN 7 DAYS OF THE INSPECTION DATE.

REVISIONS	BY
REVISIONS PER COP COMMENTS DATED 10/1/15	TD

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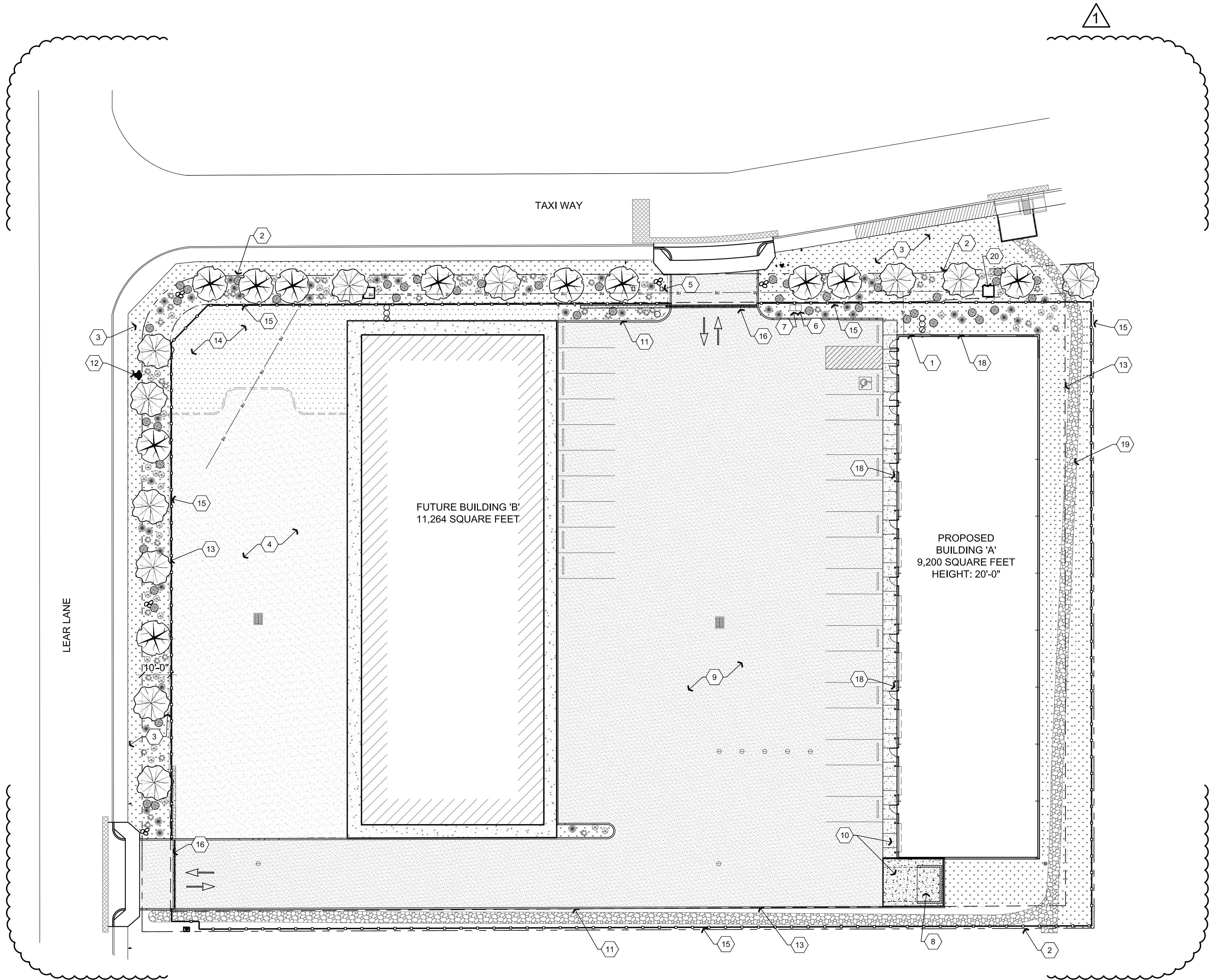
DRAWING: EROSION CONTROL PLAN

PROJECT: Heatwole Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

DRAWN BY TS
CHECKED BY DB
DATE 11-11-15
SCALE AS NOTED
JOB NO. 672
SHEET

Nov 12, 2015 - 11:58am

A1 Landscape Plan



Descriptive Keynotes

1. PROVIDE LANDSCAPE TIMER.
2. PROPERTY LINE.
3. LANDSCAPE AREA. PROVIDE GROUND COVER. REFER TO PLANT SCHEDULE NOTES.
4. FUTURE ASPHALTIC 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. ASPHALTIC PAVEMENT. REFER TO CIVIL PLANS.
10. CONCRETE PAVEMENT / SLAB, REFER TO ARCHITECTURAL SITE PLAN.
11. CONCRETE CURB. REFER TO CIVIL PLANS.
12. EXISTING FIRE HYDRANT.
13. BUILDING SETBACK.
14. FUTURE LANDSCAPE AREA.
15. PROVIDE 6' TALL 4"x8"x16" CMU BLOCK WALL. REFER TO SHEET A1.1 AND A1.2
16. PROVIDE ROLLING METAL GATE. REFER TO SHEET A1.1 AND A1.2
17. NOT USED.
18. PROVIDE WALL PACK LIGHTING.
19. RIP RAP. REFER TO CIVIL PLANS.
20. ELECTRICAL TRANSFORMER BY UTILITY COMPANY.

Plant Schedule

SYMBOL	SIZE	QUANTITY	COMMON NAME / SCIENTIFIC NAME
	2' - 3'	6	BOULDER CLUSTER
	1 GAL	44	SPANISH DAGGER / YUCCA GLORIOSA
	1 GAL	40	TEXAS SAGE
	1 GAL	46	BLUE PFITZER JUNIPER
	1 GAL	43	DEER GRASS
	15 GAL	11	MONDELL PINE
	15 GAL	11	LEYLAND CYPRESS

LANDSCAPED AREAS:
554 LINEAR FEET OF STREET FRONTAGE
1 TREE PER 25 LINEAR FEET REQUIRED (22)
TOTAL TREES PROVIDED: 22
9800 SQ. FT. OF STREET FRONTAGE LANDSCAPED
4 SHRUBS PER 250 SQ. FT. REQUIRED (157)
TOTAL SHRUBS PROVIDED: 160

- 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
	ASPHALT
	CONCRETE
	FUTURE ASPHALT
	FUTURE LANDSCAPE AREA

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1 CITY COMMENTS 11-12-2015	LO

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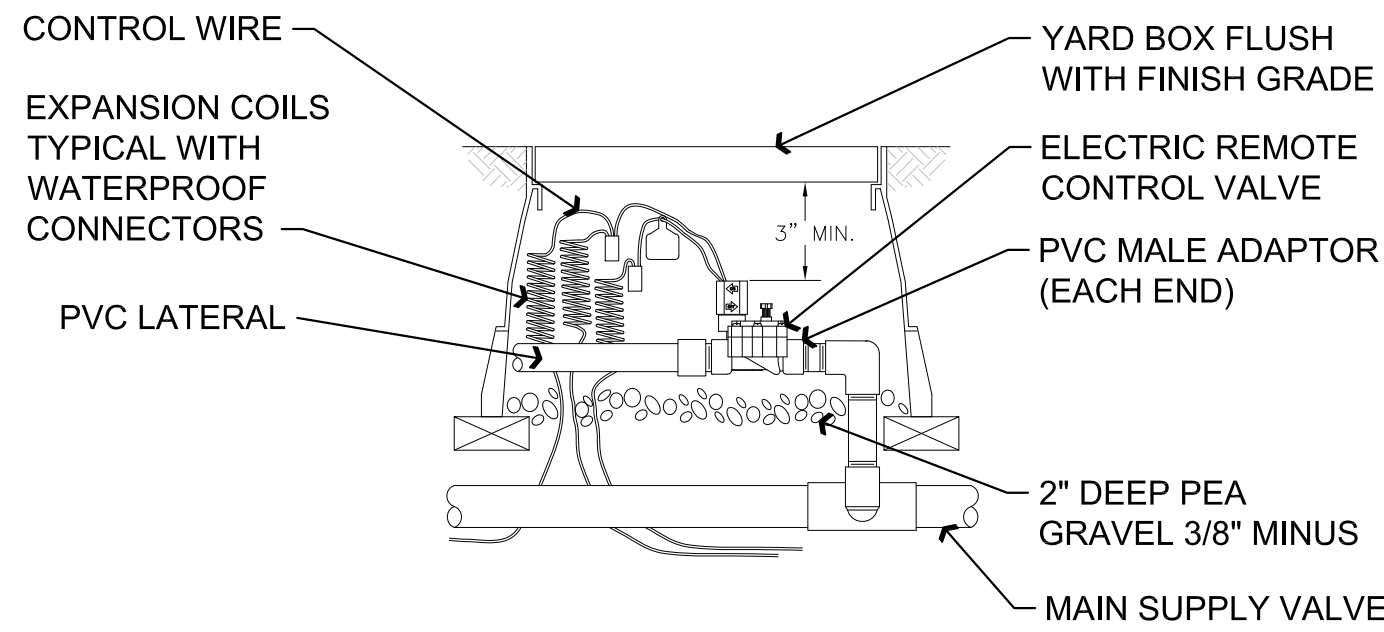
DRAWING: LANDSCAPE PLAN

PROJECT: Heatwole Commercial Building
6397 Lear Ln,
Prescott, AZ 86301

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE September 29, 2015
SCALE AS NOTED
JOB NO. 672
SHEET

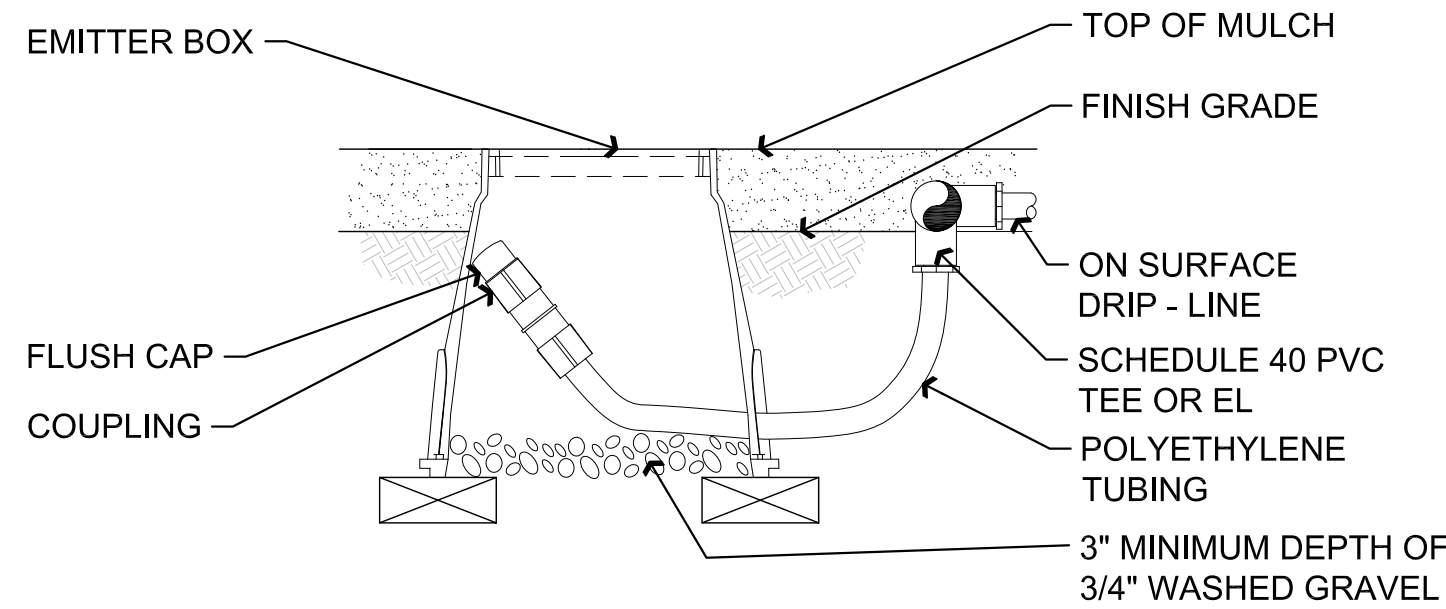
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Nov 12, 2015 - 11:58am



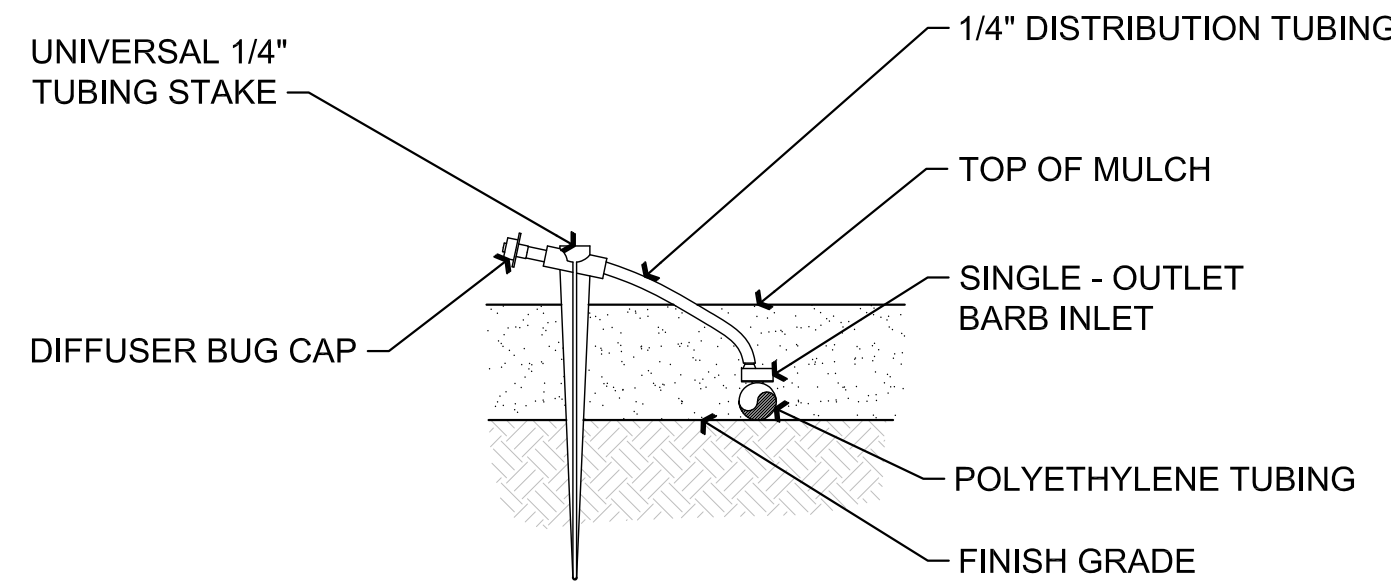
NOTE: SEAL ALL THREADED JOINTS / FITTINGS WITH APPROVED SEALANT PRIOR TO ASSEMBLY

A4 Typical Electric Remote Control Valve



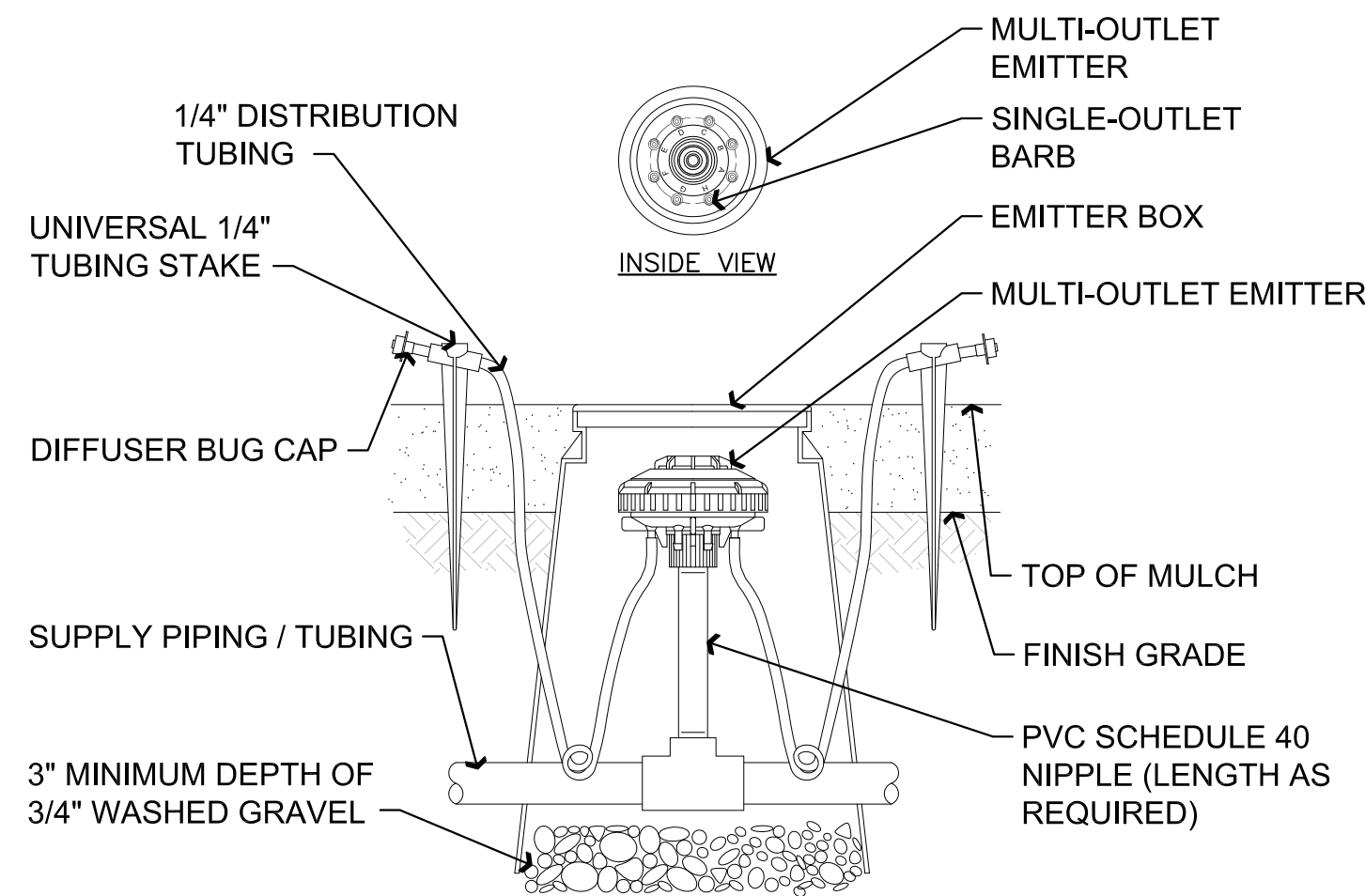
NOTE: ALLOW A MINIMUM 6" OF DRIP - LINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

B4 Typical Drip Line Flush Box



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

B3 Typical Single - Port Emitter

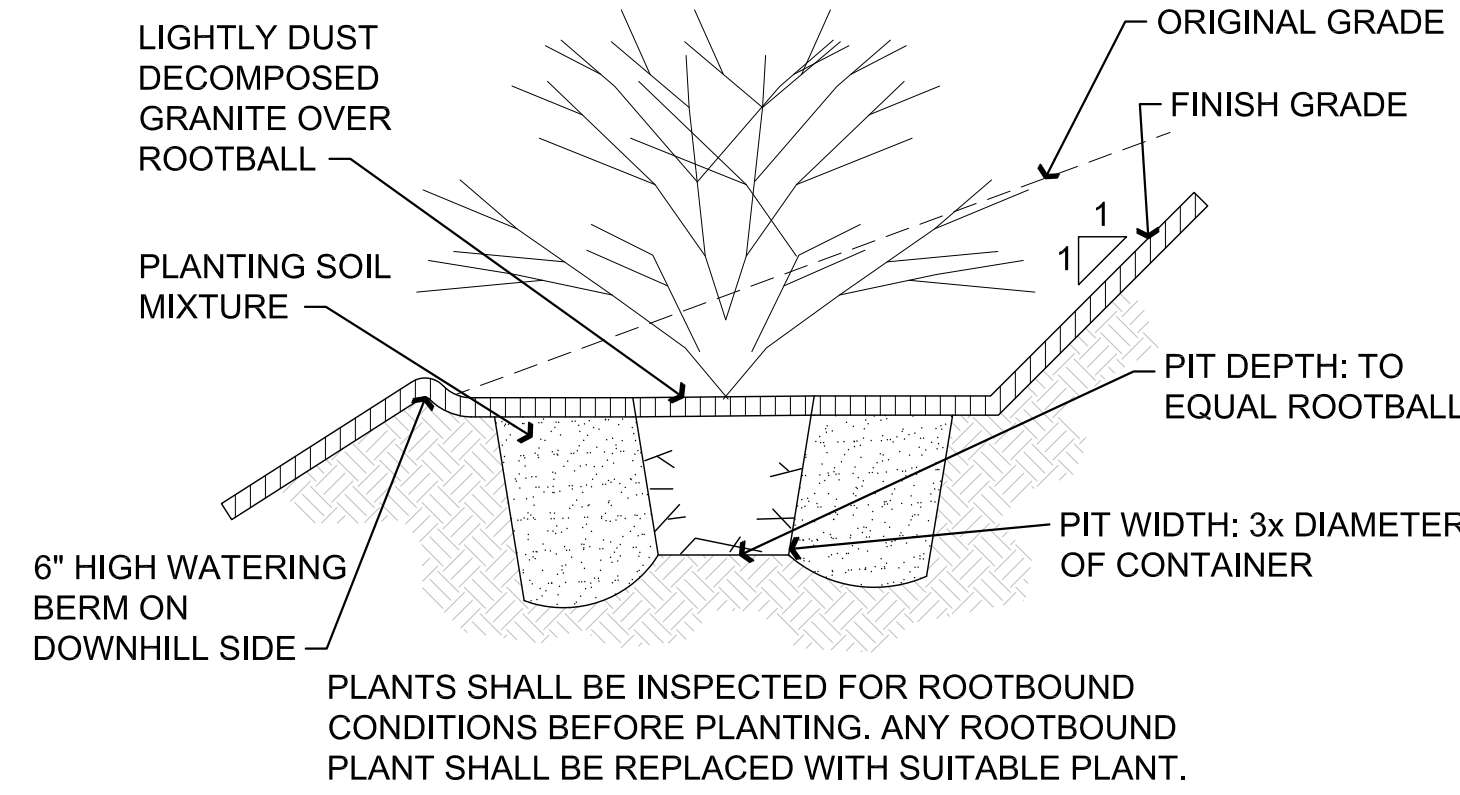


NOTE: COIL ADDITIONAL 9" OF TUBING IN EMITTER BOX TO FACILITATE MAINTENANCE.

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.)

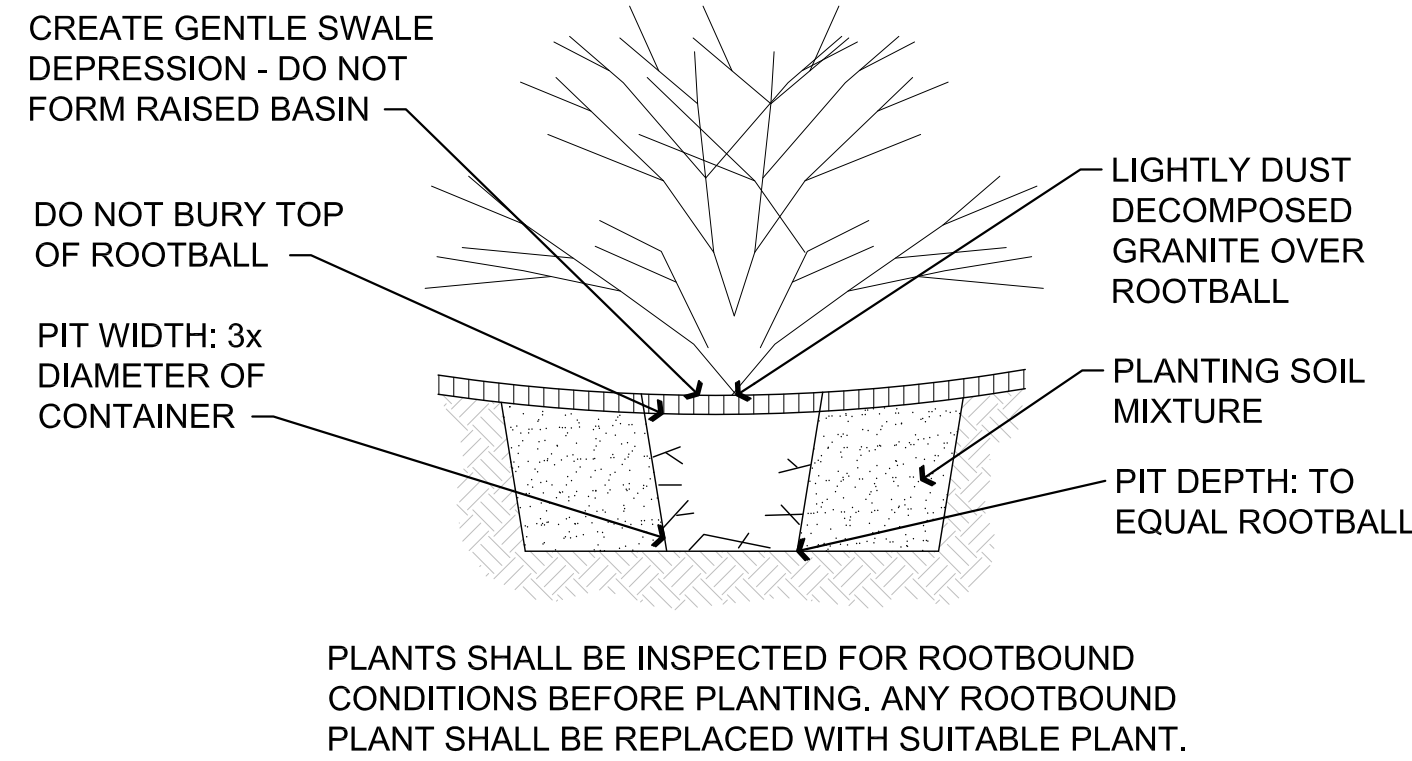
FOR SLOPED CONDITIONS PLACE DISTRIBUTION POINT AT THE HIGH POINT OF PLANTING WELL.

B1 Typical Multi - Port Emitter



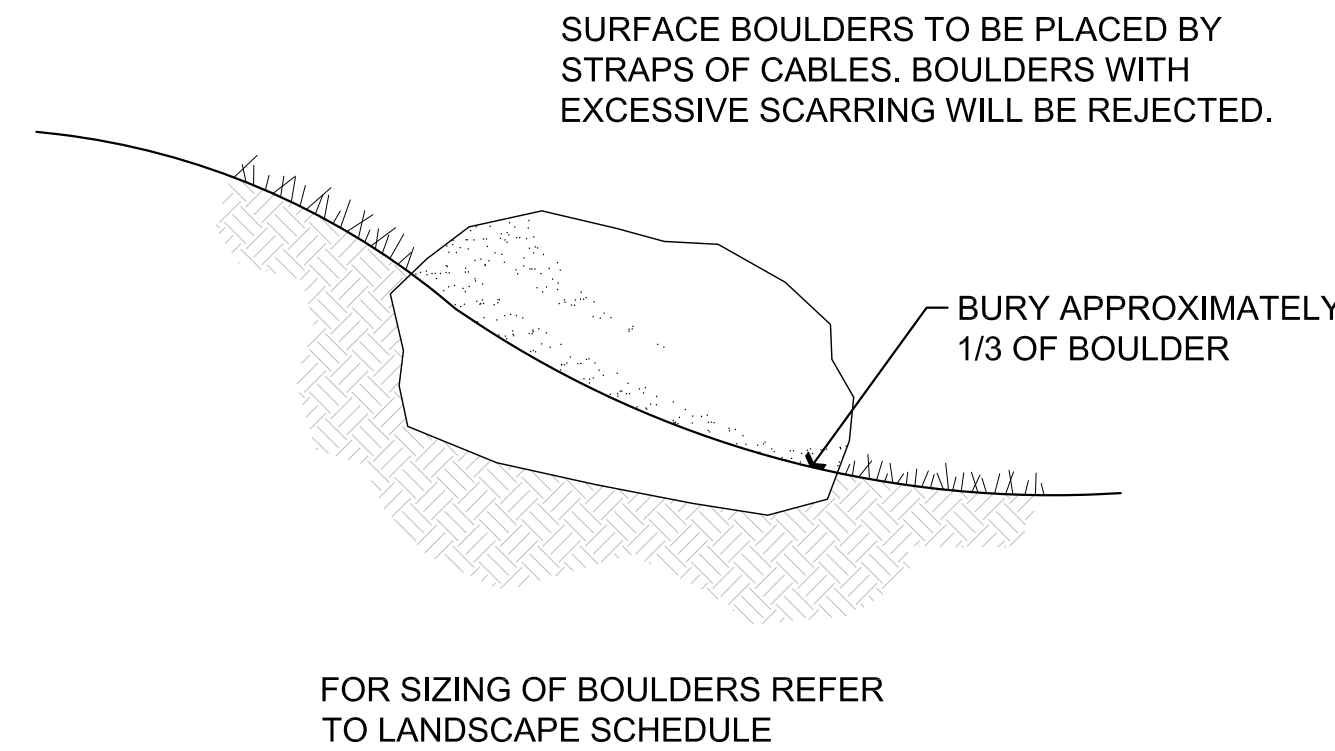
PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

C4 Typical Shrub Planting on Slope



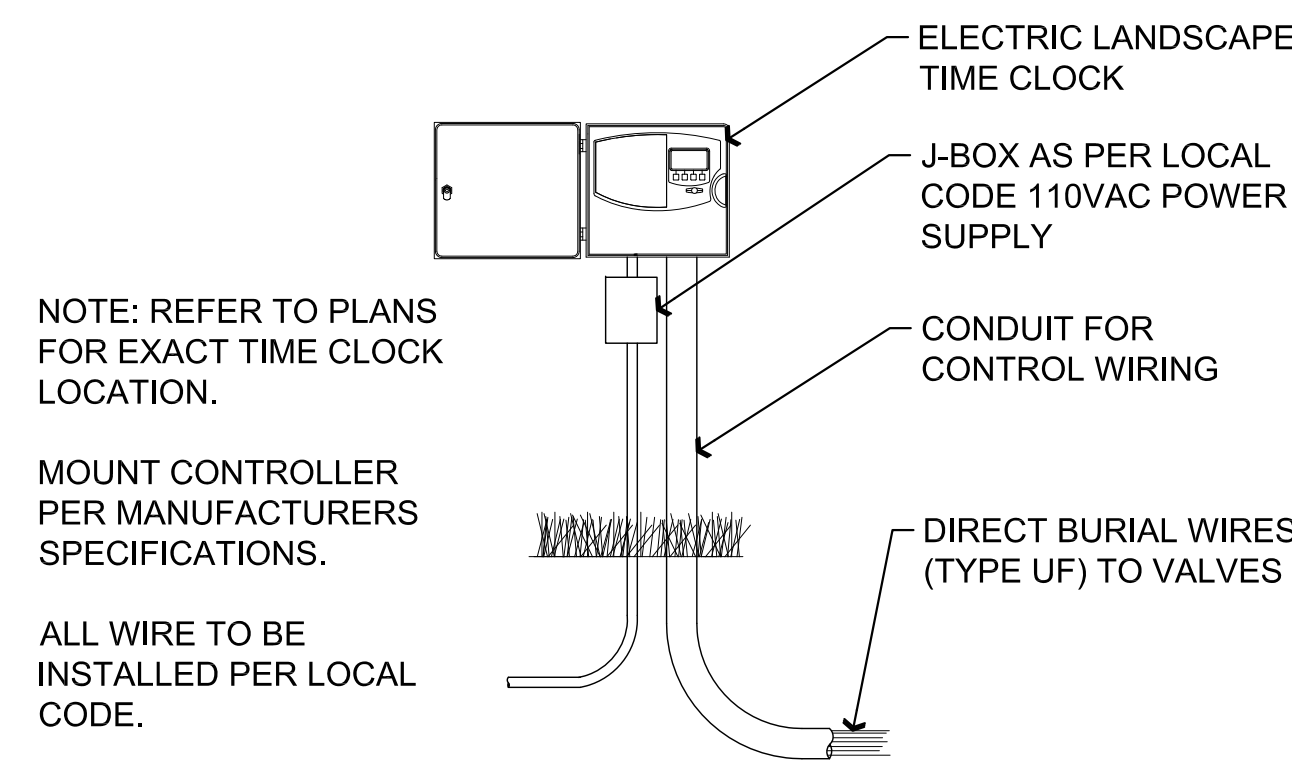
PLANTS SHALL BE INSPECTED FOR ROOTBOUND CONDITIONS BEFORE PLANTING. ANY ROOTBOUND PLANT SHALL BE REPLACED WITH SUITABLE PLANT.

C3 Typical Shrub Planting



FOR SIZING OF BOULDERS REFER TO LANDSCAPE SCHEDULE

C2 Typical Boulder Detail

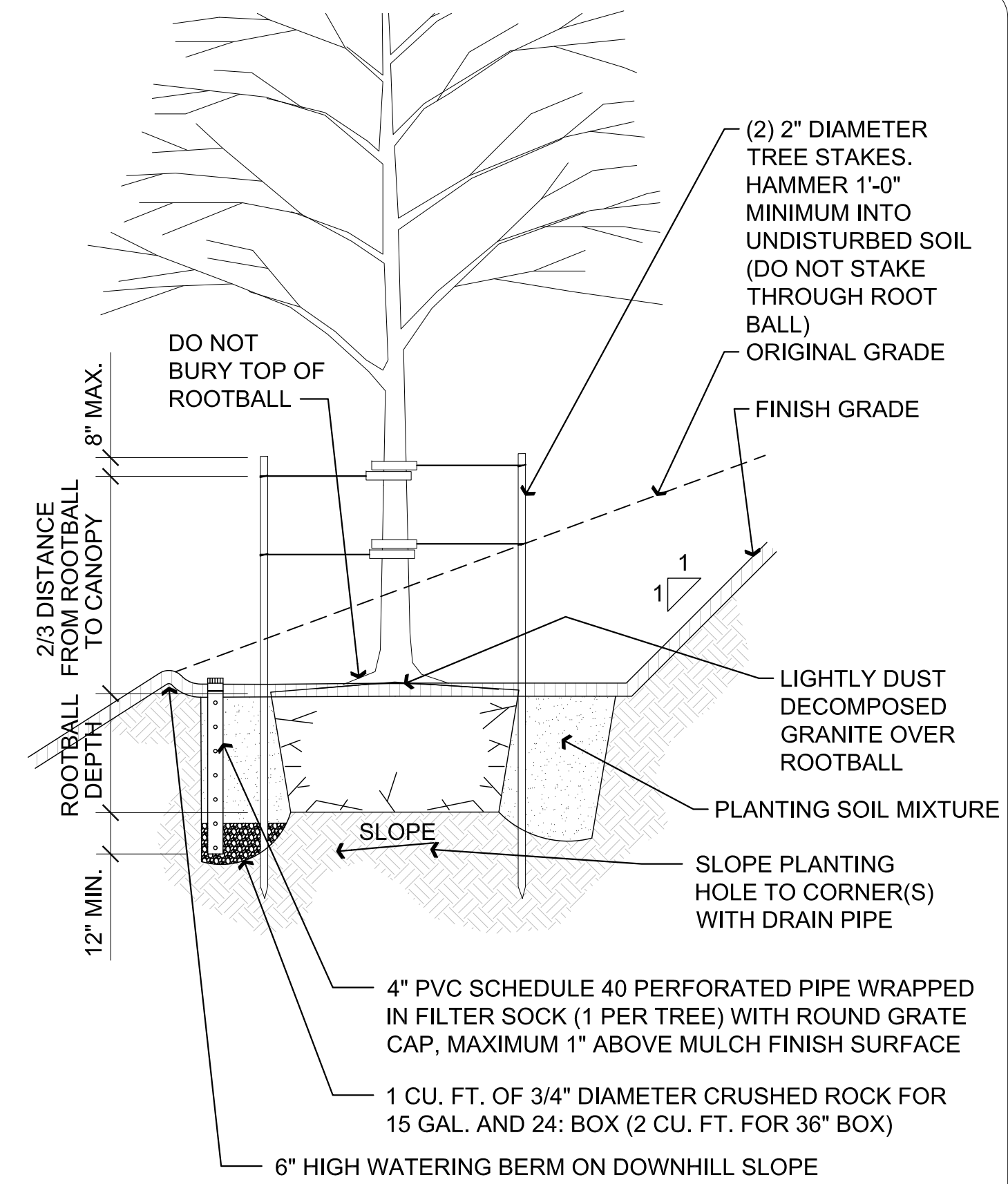


NOTE: REFER TO PLANS FOR EXACT TIME CLOCK LOCATION.

MOUNT CONTROLLER PER MANUFACTURERS SPECIFICATIONS.

ALL WIRE TO BE INSTALLED PER LOCAL CODE.

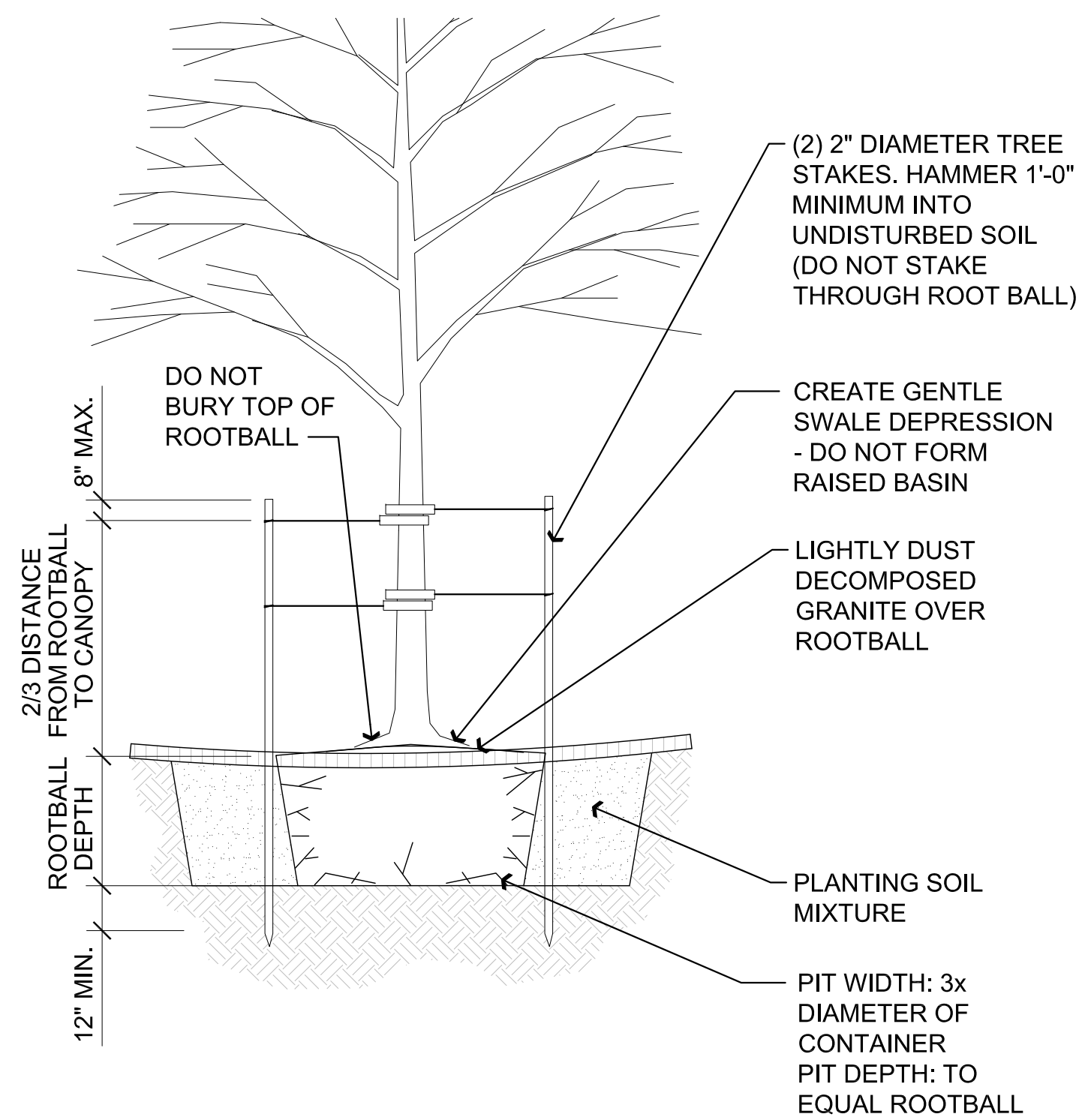
C1 Typical Electric Landscape Time Clock



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.

D3 Typical Tree 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.

D1 Typical Tree Planting

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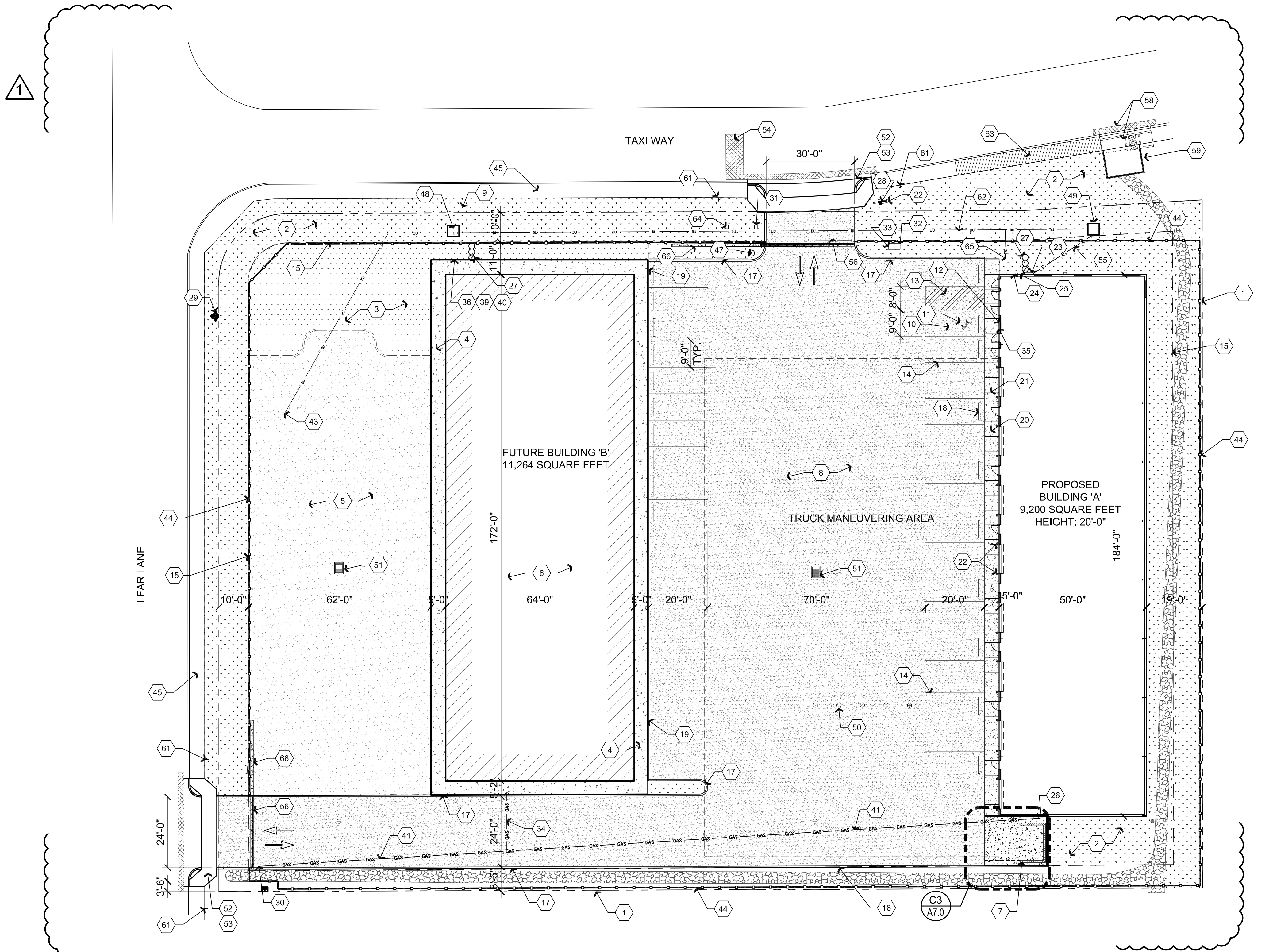
DRAWING: LANDSCAPE DETAILS

PROJECT: Heatwole Commercial Building
6397 Lear Ln,
Prescott, AZ 86301

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DATE September 29, 2015
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Architectural Partial Utilities / Site Plan

Descriptive Keynotes

1. PROPERTY LINE.
2. LANDSCAPE AREA. REFER TO LANDSCAPE PLANS.
3. FUTURE LANDSCAPE AREA. NOT INCLUDED IN THIS PROJECT.
4. FUTURE SIDEWALK. NOT INCLUDED IN THIS PROJECT.
5. FUTURE ASPHALT PARKING LOT. NOT INCLUDED IN THIS PROJECT
6. FUTURE BUILDING. NOT INCLUDED IN THIS PROJECT.
7. 6'-0" HIGH DUMPSTER ENCLOSURE IN ACCORDANCE WITH CITY OF PRESCOTT'S STANDARD DETAIL NO. 4-15P.
8. PROVIDE ASPHALTIC PAVEMENT OVER COMPACTED A.B.C.
9. EXISTING AIR RELEASE VALVE.

Descriptive Keynotes

10. THE MAXIMUM SLOPE OF THE A.D.A. ACCESSIBLE PARKING AREA SHALL NOT EXCEED 2% AND THE SLOPE OF THE DOORWAY LANDING AND ACCESSIBLE ROUTE TO PUBLIC ACCESS SHALL NOT EXCEED 2%.
11. PROVIDE A.D.A. APPROVED SYMBOL OF ACCESSIBILITY PAVEMENT MARKING.
12. PROVIDE PARKING SIGNAGE IN ACCORDANCE WITH A.D.A. REQUIREMENTS FOR VAN ACCESSIBLE PARKING.
13. PROVIDE 4" WIDE WHITE PAINTED STRIPING AT UNLOADING AREA IN ACCORDANCE WITH A.D.A. REQUIREMENTS FOR VAN ACCESSIBLE PARKING.
14. PROVIDE 4" WIDE WHITE PAINTED PARKING STRIPE, TYPICAL.
15. 10' BUILDING SETBACK.

Descriptive Keynotes

16. 7' BUILDING SETBACK.
17. PROVIDE CAST IN PLACE CONCRETE CURB. REFER TO CIVIL PLANS.
18. PROVIDE PRE-MANUFACTURED CONCRETE TYPE WHEEL STOP.
19. PROVIDE CAST IN PLACE FLUSH CURB. REFER TO CIVIL PLANS.
20. PROVIDE 5" CONCRETE SIDEWALK WITH #4 @ 2'-0" O.C. EACH WAY OVER 8" COMPACTED A.B.C.
21. TYPICALLY INDICATES TOOLED CONCRETE CONTROL JOINT.
22. PROVIDE 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.
23. PROVIDE ELECTRICAL SERVICE ENTRANCE SECTION. REFER TO ELECTRICAL PLANS.
24. PROVIDE LANDSCAPE TIMER, REFER TO LANDSCAPE PLAN.
25. PROVIDE CABLE TV TERMINAL BOX.
26. PROVIDE NATURAL GAS METER / REGULATOR.
27. PROVIDE 2-WAY SEWER CLEAN OUT AND BACKWATER VALVE. REFER TO PLUMBING PLANS.
28. PROVIDE REMOTE FIRE DEPARTMENT CONNECTION WITH LOCKING CAPS.
29. EXISTING FIRE HYDRANT.
30. EXISTING NATURAL GAS STUB-OUT.
31. PROVIDE DOMESTIC SERVICE WATER CONNECTION AND REDUCED PRESSURE BACKFLOW PREVENTION DEVICE WITH ASSE 1060 COMPLIANT FREEZE RESISTANT COVER BOLTED TO CONCRETE SLAB. REFER TO CIVIL PLANS.
32. PROVIDE BACKFLOW PREVENTOR FOR LANDSCAPE IRRIGATION SYSTEM. PROVIDE ASSE 1060 COMPLIANT FREEZE RESISTANT COVER BOLTED TO CONCRETE SLAB. REFER TO LANDSCAPE PLANS.
33. PROVIDE 3/4" VALVED SCHEDULE 40 PVC STUB - OUT IN BELOW GRADE YARD BOX FOR LANDSCAPE IRRIGATION SYSTEM. REFER TO CIVIL PLANS.
34. PROVIDE NATURAL GAS LINE FOR FUTURE BUILDING.
35. PROVIDE FIRE DEPARTMENT LOCK BOX MOUNTED 6'-0" A.F.F.
36. STUB-OUT FOR FUTURE ELECTRICAL SERVICE ENTRANCE SECTION.
37. NOT USED.
38. NOT USED.
39. STUB-OUT FOR FUTURE CATV.
40. STUB-OUT FOR FUTURE TELEPHONE.
41. PROVIDE BELOW GRADE NATURAL GAS LINE.
42. NOT USED.
43. EXISTING BELOW GRADE ELECTRICAL, TELEPHONE AND CATV STUB OUT.
44. PROVIDE 6' TALL 4"x8"x16" CMU FENCE. REFER TO SHEETS A1.1 AND A1.2.
45. EXISTING SIDEWALK.
46. NOT USED.
47. PROVIDE 6" INLINE SEWER CLEANOUT. REFER TO CIVIL PLANS.
48. PROPOSED FUTURE ELECTRICAL TRANSFORMER BY UTILITY COMPANY.
49. ELECTRICAL TRANSFORMER BY UTILITY COMPANY.
50. MANWAY RISER WITH COVER, TYPICAL. REFER TO CIVIL PLANS.
51. DRAIN WITH GRATE. REFER TO CIVIL PLANS.
52. REMOVE EXISTING CONCRETE SIDEWALK AND CURB. REFER TO CIVIL PLANS.
53. PROVIDE NEW CONCRETE DRIVEWAY ENTRANCE / SIDEWALK. REFER TO CIVIL PLANS.
54. REMOVE AND REPLACE ASPHALT PAVING FOR WATER LINE. REFER TO CIVIL PLANS.
55. PROVIDE (1) - 4" DB 120 ELECTRIC CONDUIT.
56. PROVIDE ROLLING GATE. REFER TO SHEETS A1.1 AND A1.2.
57. NOT USED.
58. PROVIDE NEW SIDEWALK AND SCUPPER. REFER TO CIVIL PLANS.
59. PROVIDE CONCRETE HEADWALL WITH PROTECTIVE GUARD RAIL. REFER TO CIVIL PLANS.
60. NOT USED.
61. PROVIDE NO PARKING SIGN PER FIRE DEPARTMENT DETAIL.
62. DRY UTILITIES CONSISTING OF 3" DB 120 TELEPHONE CONDUIT, 2" DB 120 CATV CONDUIT, (3) - 2" DB 120 ELECTRICAL CONDUITS PER APS REQUIREMENTS AND (1) - 4" DB 120 ELECTRICAL CONDUIT TO FEED FUTURE ELECTRICAL TRANSFORMER.
63. REMOVE AND REPLACE DAMAGED SIDEWALK. REFER TO CIVIL PLANS.
64. PROVIDE WATER METER YOKE IN CONCRETE VALVE BOX FOR FUTURE WATER METER, REFER TO CIVIL PLANS.
65. 3" DB 120 TELEPHONE CONDUIT AND 2" DB 120 CATV CONDUIT.
66. CONCRETE RIBBON SLAB FOR ROLLING GATE.

REVISIONS

BY

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CITY COMMENTS

11-12-2015

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ARCHITECTURE & PLANNING

DRAWING:

ARCHITECTURAL PARTIAL UTILITIES / SITE PLAN

PROJECT:

Heatwave Commercial Building
6397 Lear Ln,
Prescott, AZ 86301

DRAWN BY

L.O.

CHECKED BY

W.A.K.

DATE

September 29, 2015

SCALE

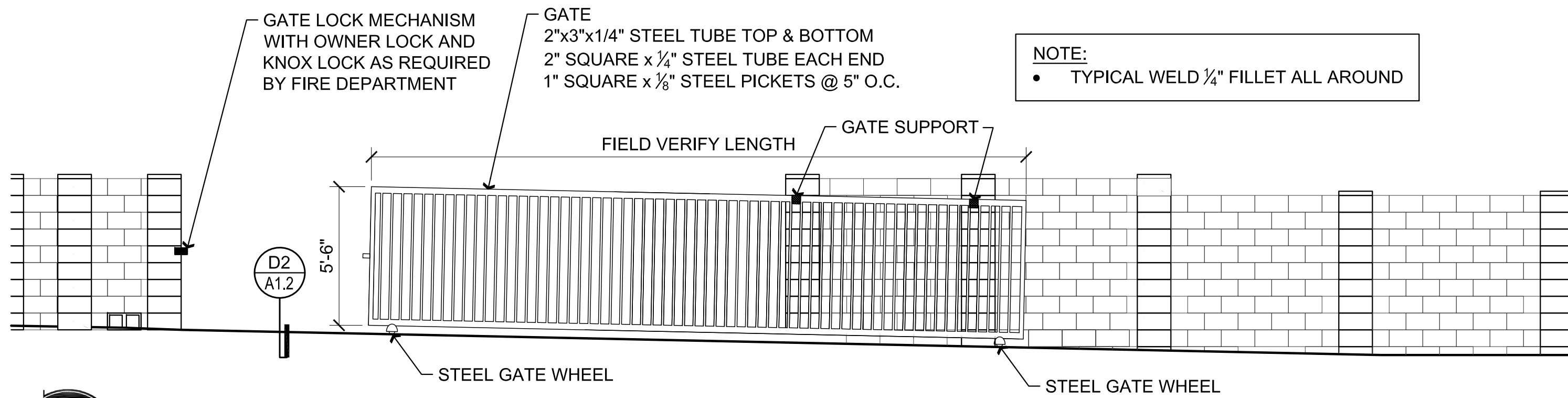
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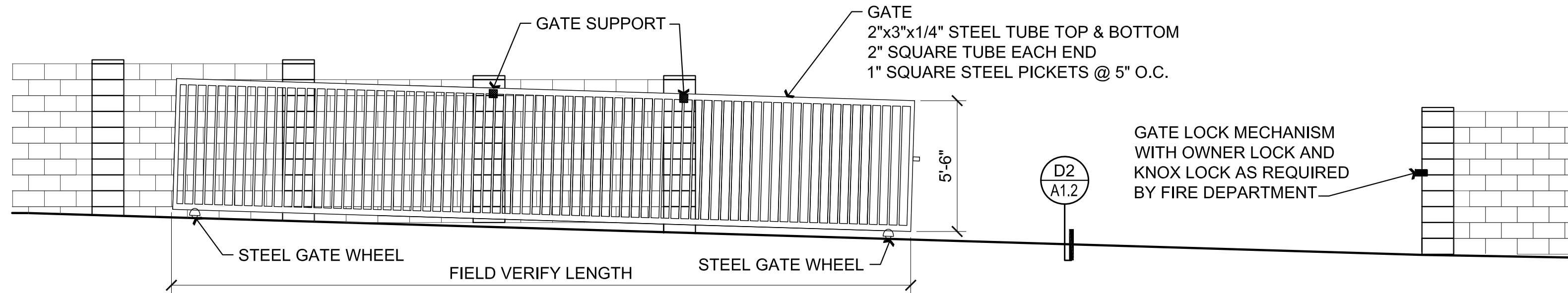
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A1.0



A8 West Gate Elevation

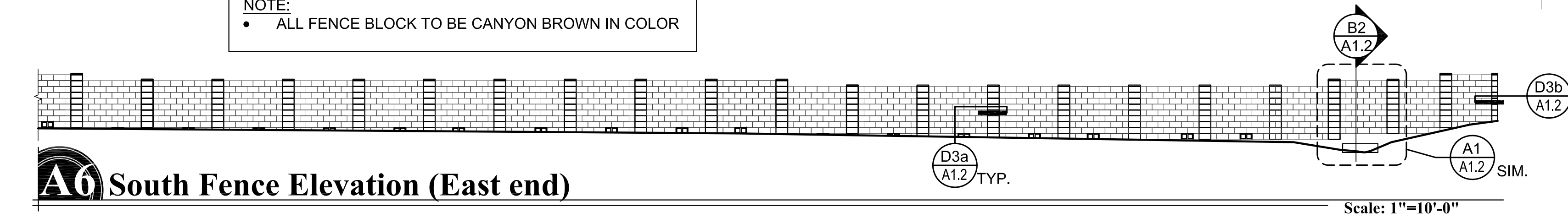
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A7 North Gate Elevation

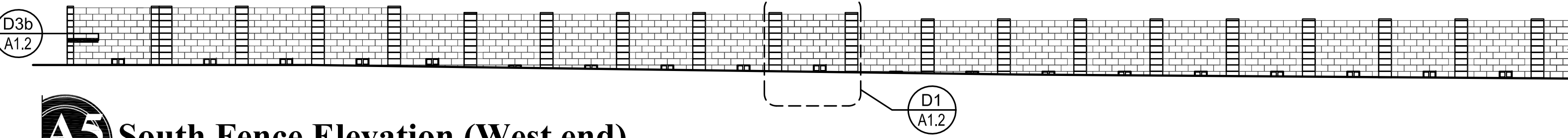
Scale: 1/4"=1'-0"

NOTE:
• ALL FENCE BLOCK TO BE CANYON BROWN IN COLOR



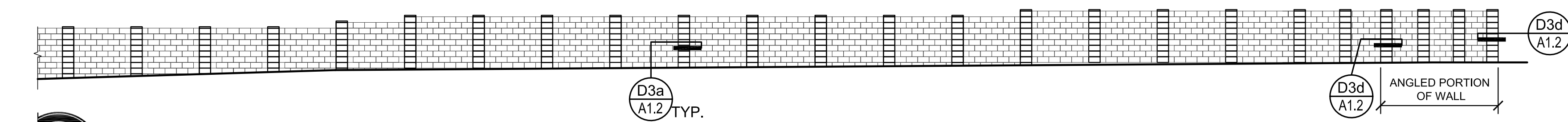
A6 South Fence Elevation (East end)

Scale: 1"=10'-0"



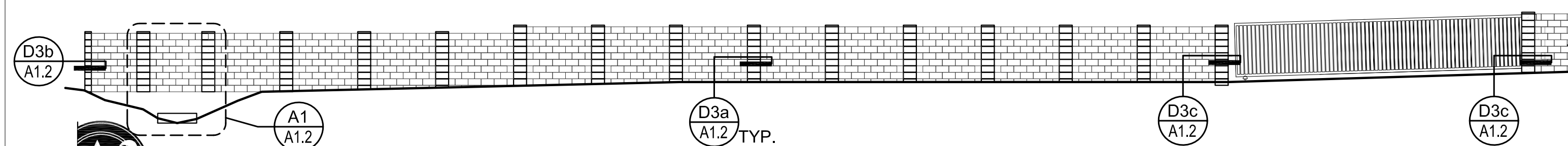
A5 South Fence Elevation (West end)

Scale: 1"=10'-0"



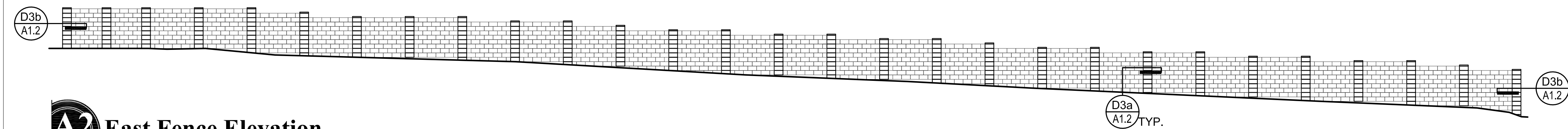
A4 North Fence Elevation (West End)

Scale: 1"=10'-0"



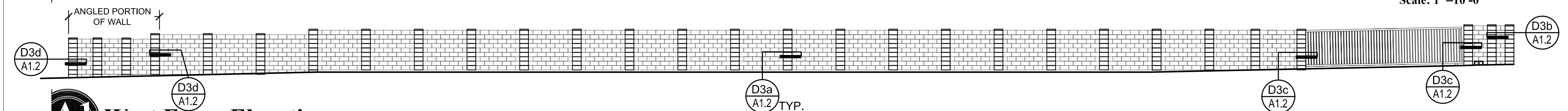
A3 North Fence Elevation (East end)

Scale: 1"=10'-0"



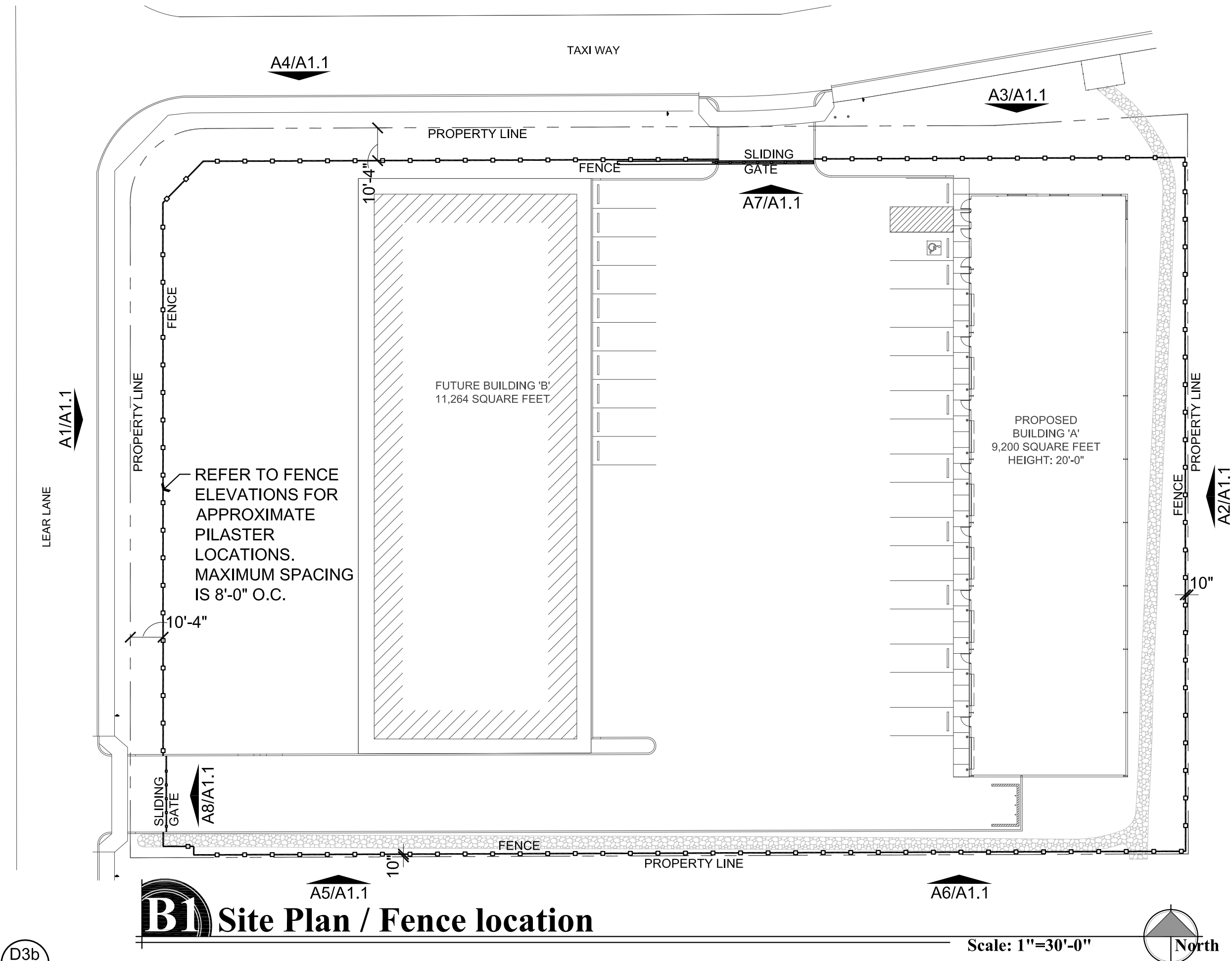
A2 East Fence Elevation

Scale: 1"=10'-0"



A1 West Fence Elevation

Scale: 1"=10'-0"



B1 Site Plan / Fence location

Scale: 1"=30'-0"

NOTE:
• OWNER UNDERSTANDS AND ACCEPTS RESPONSIBILITY FOR CMU WALL BEING PLACED IN PUBLIC UTILITY EASEMENT. OWNER AGREES TO REMOVE AND REPLACE CMU WALL IF NECESSARY TO ACCOMMODATE FUTURE UTILITIES.

REVISIONS	BY
1	LO
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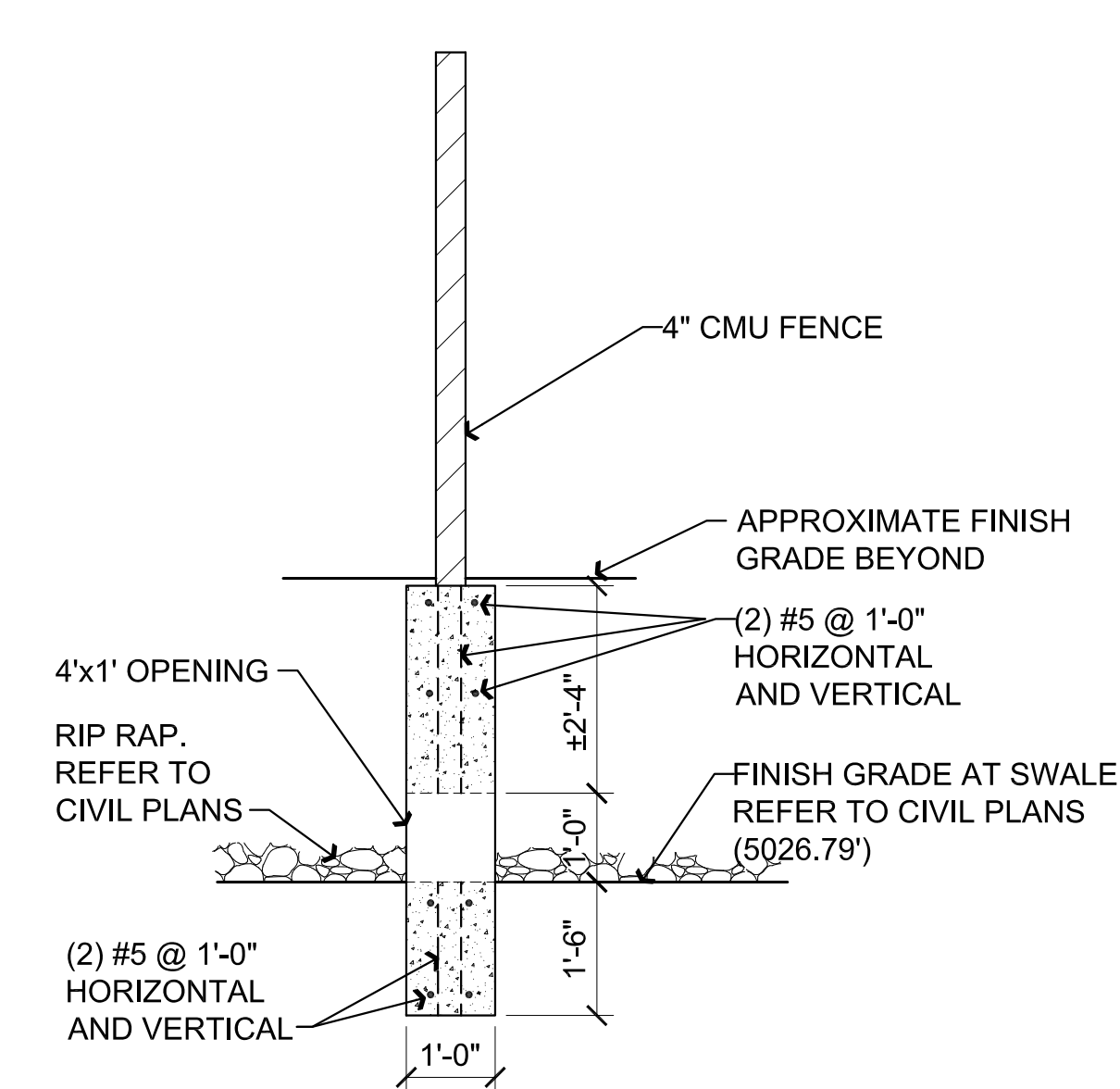
DRAWING: CMU FENCE ELEVATIONS AND PLAN

PROJECT: Heatwale Commercial Building
6397 Lear Ln,
Prescott, AZ 86301

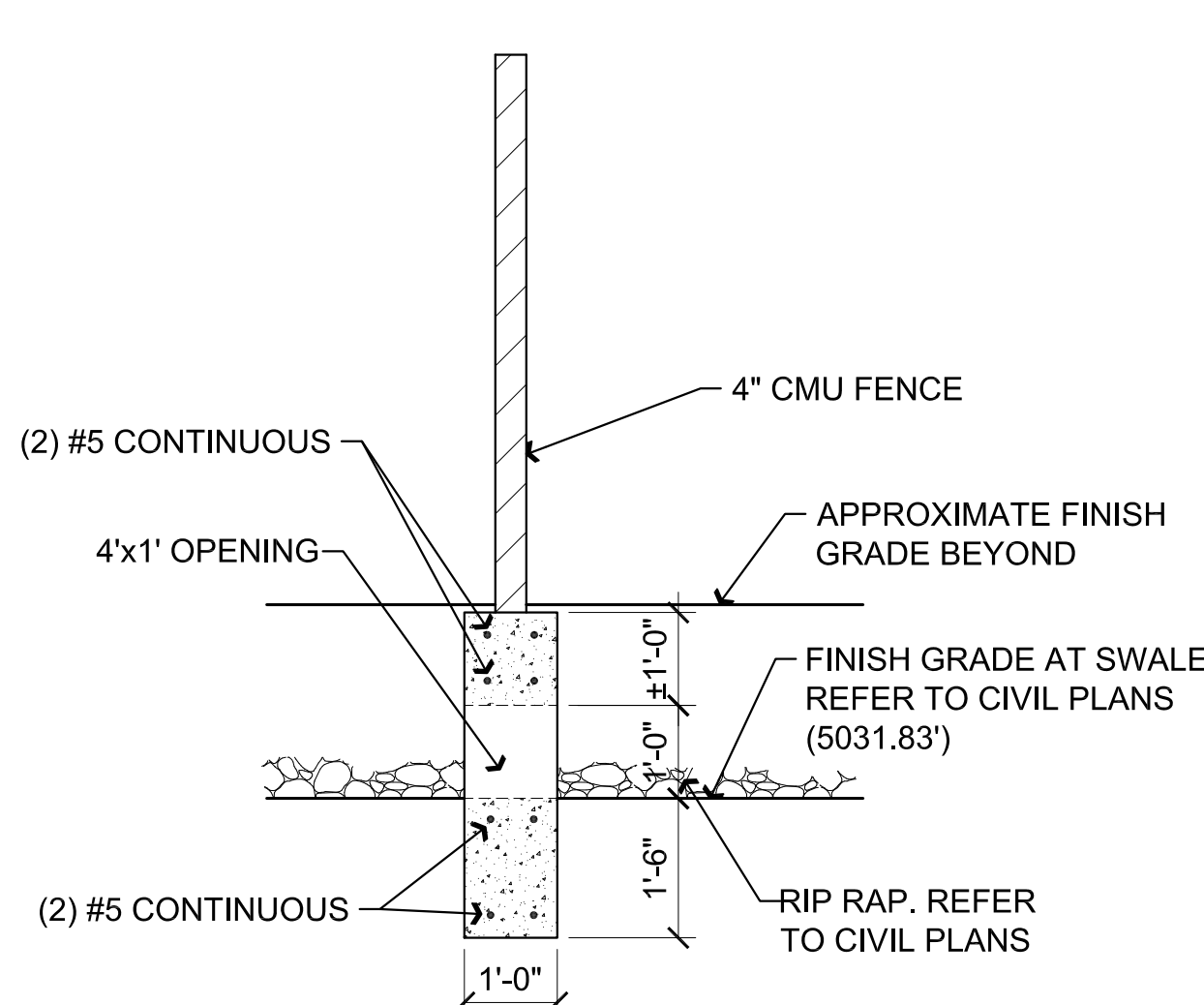
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L.O.
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W.A.K.
DATE
September 29, 2015
SCALE
AS NOTED
JOB NO.
672
SHEET

A1.1

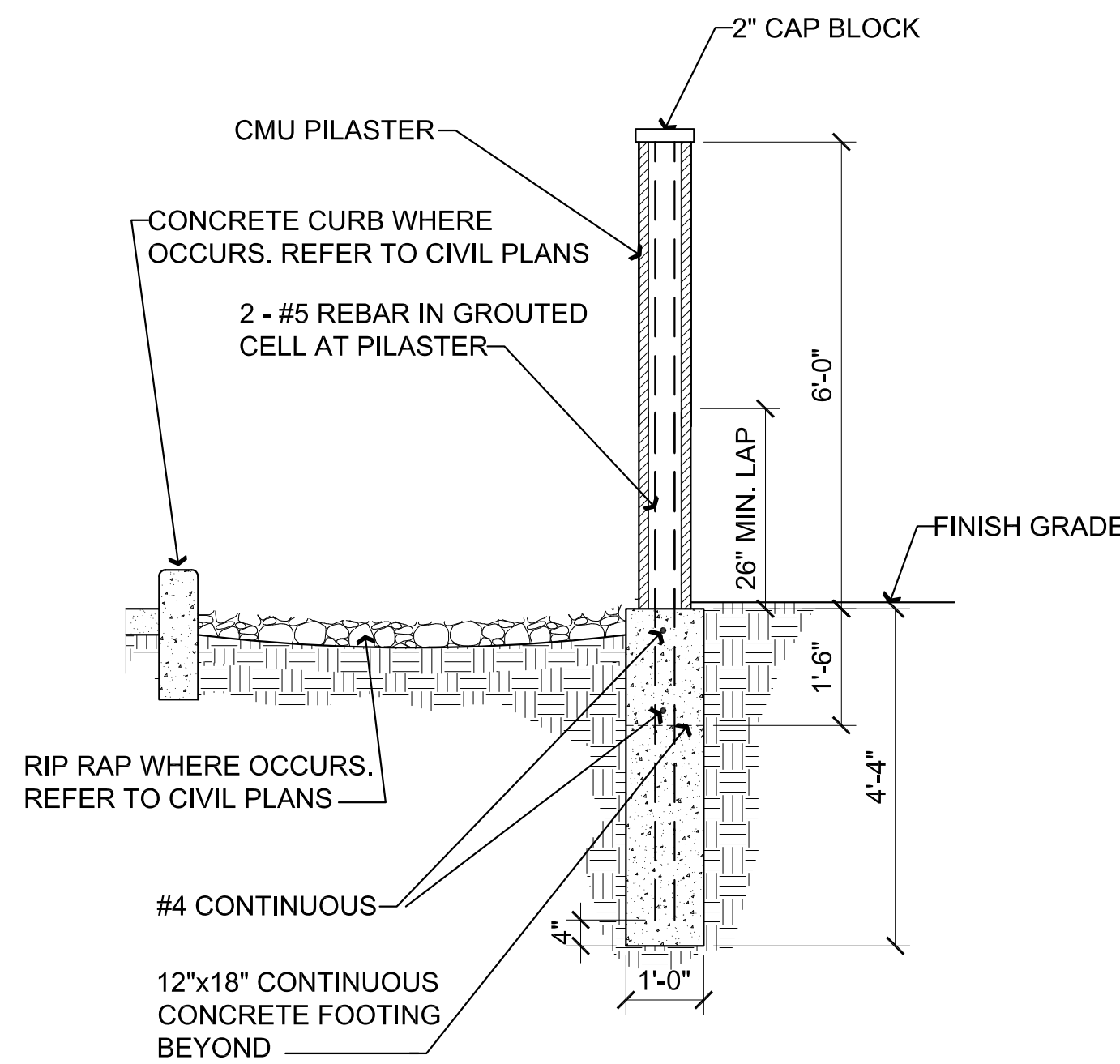
Nov 12, 2015 - 11:58am



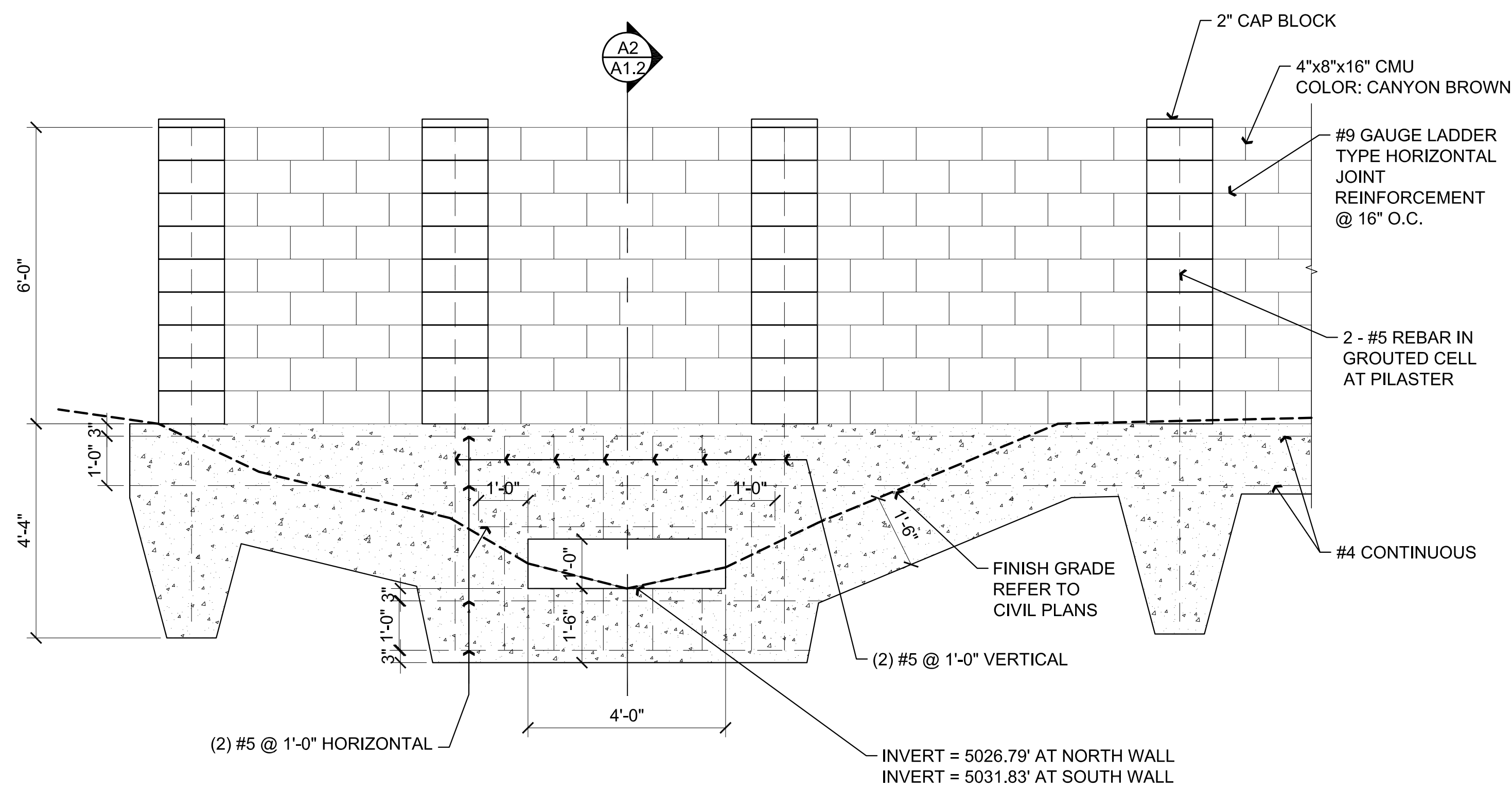
A2 Section at Drainage
SCALE: 1/2" = 1'-0"



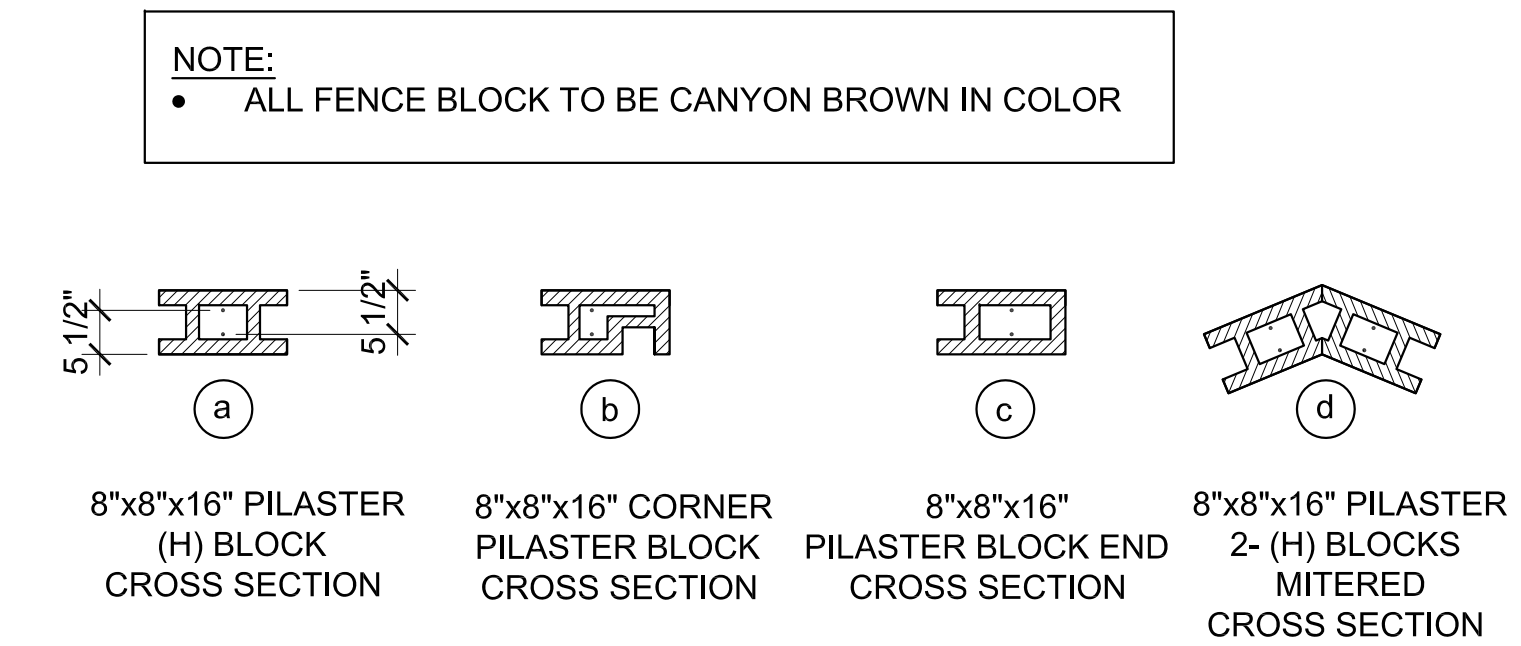
B2 Section at Drainage
SCALE: 1/2" = 1'-0"



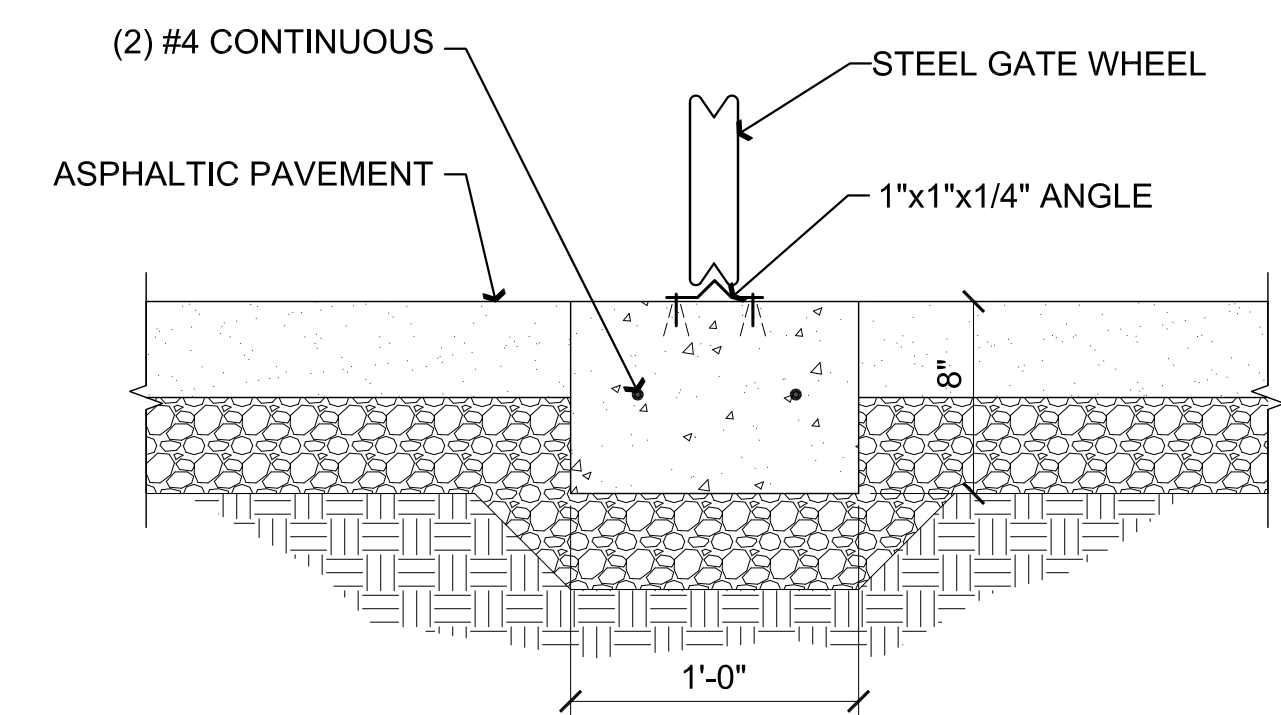
C2 Section at Pilaster
SCALE: 1/2" = 1'-0"



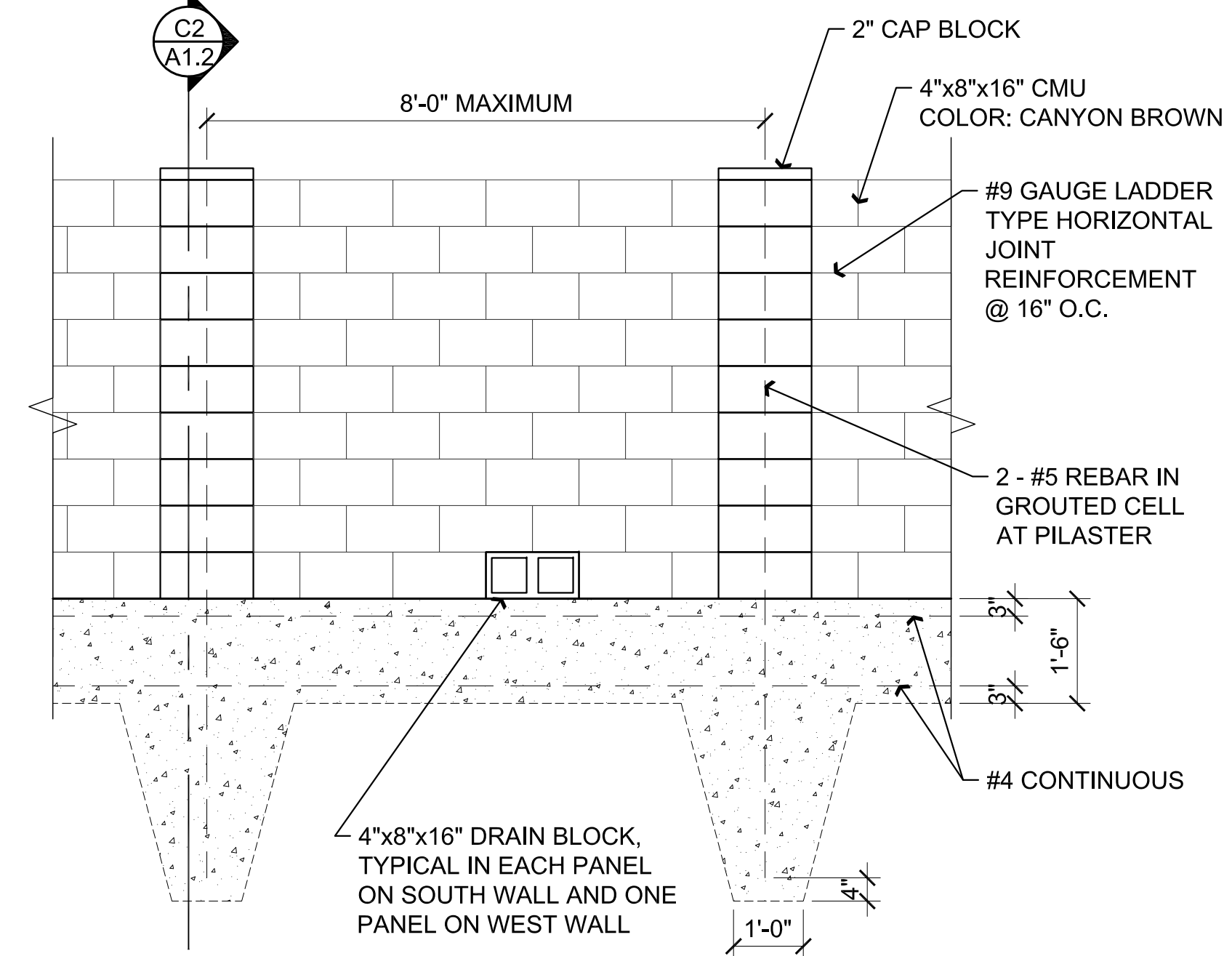
A1 Enlarged Fence Elevation/Section
Scale: 1/2"=1'-0"



D3 Pilaster Block Types
SCALE: 1/2" = 1'-0"



D2 Rolling Gate V-Track
SCALE: 1 1/2" = 1'-0"



D1 Enlarged Fence Elevation/Section
Scale: 1/2"=1'-0"

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1	LO
CITY COMMENTS	
11-12-2015	

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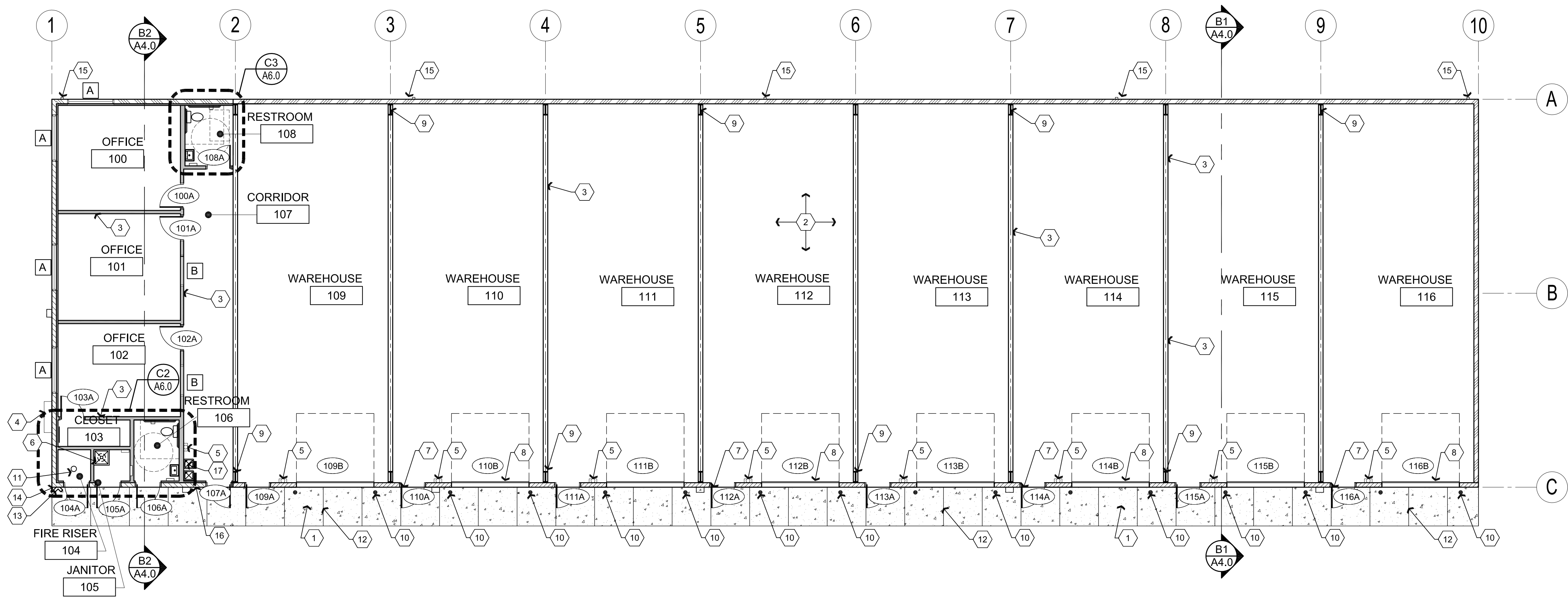
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ARCHITECTURE & PLANNING

DRAWING: CMU FENCE DETAILS
PROJECT: Heatwale Commercial Building
6397 Lear Ln,
Prescott, AZ 86301

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE September 29, 2015
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A1.2

Nov 12, 2015 - 11:59am



A1 Reference Floor Plan

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



Descriptive Keynotes

1. PROVIDE CONCRETE SIDEWALK OVER COMPACTED A.B.C., REFER TO SITE PLAN AND CIVIL PLANS.
2. PROVIDE 5" CONCRETE SLAB WITH FIBERMESH AND #4 REBAR @ 3'-0" O.C. EACH WAY OVER COMPACTED A.B.C. REFER TO STRUCTURAL 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.
6. PROVIDE MOP SINK, REFER TO PLUMBING PLANS.
7. PROVIDE HOLLOW METAL DOOR, REFER TO DOOR SCHEDULE. (TYPICAL)
8. PROVIDE SECTIONAL ROLL UP DOOR, REFER TO DOOR SCHEDULE. (TYPICAL)
9. PROVIDE STEEL COLUMN WITHIN GPDW PARTITION. REFER TO STRUCTURAL PLANS. (TYPICAL)
10. PROVIDE 6'-0" LONG 4" DIAMETER, CONCRETE FILLED, PROTECTIVE STEEL BOLLARDS, EMBEDDED 2'-0" BELOW GRADE INTO CONCRETE FOOTING, TYPICAL AT EACH OVERHEAD DOOR.
11. PROVIDE AUTOMATIC FIRE SPRINKLER SYSTEM DRY RISER, REFER TO FIRE SPRINKLER PLANS.
12. TYPICALLY INDICATES TOOLED CONCRETE CONTROL JOINT.
13. PROVIDE FIRE DEPARTMENT CONNECTION WITH LOCKING CAPS. REFER TO FIRE SPRINKLER PLANS.
14. PROVIDE FIRE ALARM GONG. REFER TO FIRE SPRINKLER PLANS.
15. PROVIDE SHEET METAL DOWNSPOUT.
16. PROVIDE FIRE DEPARTMENT LOCK BOX MOUNTED 6'-0" A.F.F.
17. PROVIDE DUAL-LEVEL A.D.A ACCESSIBLE ELECTRIC DRINKING FOUNTAIN. REFER TO PLUMBING PLANS.

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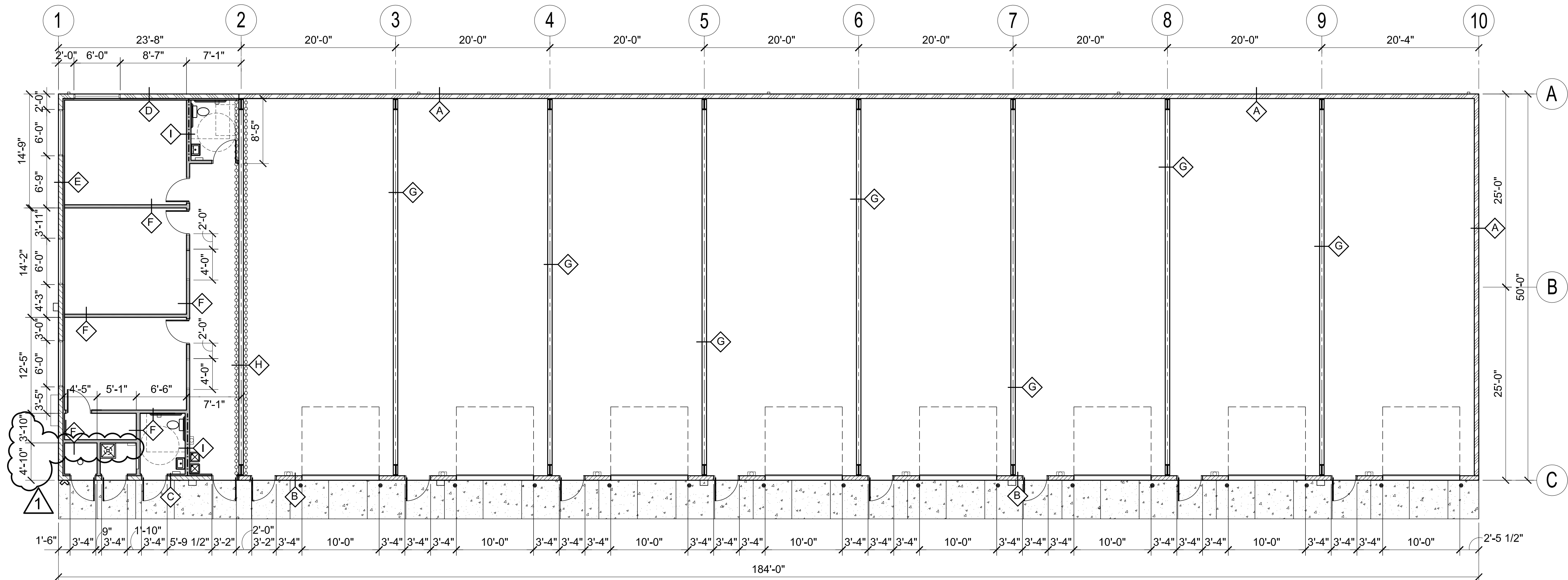
DRAWING: REFERENCE FLOOR PLAN

PROJECT: Heatwave Commercial Building
6397 Lear Ln,
Prescott, AZ 86301

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September 29, 2015
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A2.0

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Dimension Floor Plan and Wall Types Plan

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



Wall Types Legend

- EXTERIOR METAL BUILDING WALL:** PROVIDE EXTERIOR METAL BUILDING SIDING 'A' PANELS OVER 8" HORIZONTAL GIRTS BETWEEN STEEL COLUMNS. PROVIDE R-11 VINYL BACKED, METAL BUILDING INSULATION AT INTERIOR W/ 8'-0" HIGH METAL WALL LINER 'R' PANELS. REFER TO WALL SECTIONS, SHEET A2.2
- EXTERIOR METAL BUILDING WALL:** PROVIDE EXTERIOR METAL BUILDING 'A' SIDING PANELS OVER OVER 8" HORIZONTAL GIRTS BETWEEN STEEL COLUMNS ABOVE CMU WALL. PROVIDE R-11 VINYL BACKED, METAL BUILDING INSULATION ABOVE CMU WALL AT INTERIOR W/ 4'-0" HIGH METAL WALL LINER 'R' PANELS ABOVE CMU. REFER TO WALL SECTIONS, SHEET A2.2
- EXTERIOR METAL BUILDING WALL:** PROVIDE EXTERIOR METAL BUILDING SIDING 'A' PANELS ABOVE CMU WALL ON EXTERIOR SIDE OVER 8" HORIZONTAL GIRTS BETWEEN STEEL COLUMNS AND 5/8" GPDW ON EXPOSED INTERIOR SIDE OF VERTICAL 2-1/2", 25 GAUGE METAL STUDS AT 2'-0" O.C. UP TO 10'-6" ABOVE FINISH FLOOR. REFER TO STRUCTURAL PLANS. PROVIDE R-19 UNFACED BATT INSULATION AND AND R-11 VINYL FACED BLANKET INSULATION. REFER TO WALL SECTIONS, SHEET A2.2
- EXTERIOR METAL BUILDING WALL:** PROVIDE EXTERIOR METAL BUILDING SIDING 'A' PANELS ON EXTERIOR SIDE OVER 8" HORIZONTAL GIRTS BETWEEN STEEL COLUMNS AND 5/8" GPDW ON EXPOSED INTERIOR SIDE OF VERTICAL 2-1/2", 25 GAUGE METAL STUDS AT 2'-0" O.C. UP TO 10'-6" ABOVE FINISH FLOOR. REFER TO STRUCTURAL PLANS. PROVIDE R-19 UNFACED BATT INSULATION AND R-11 VINYL FACED BLANKET INSULATION. REFER TO WALL SECTIONS, SHEET A2.2
- EXTERIOR METAL BUILDING WALL:** PROVIDE EXTERIOR METAL BUILDING SIDING 'A' PANELS ABOVE CMU WALL ON EXTERIOR SIDE OVER 1/2" SUB GIRTS WITH 5/8" GPDW ON EXPOSED INTERIOR SIDE OF VERTICAL METAL STUDS AT 2'-0" O.C. REFER TO DETAIL A1/A4.0 AND STRUCTURAL PLANS. PROVIDE R-19 UNFACED BATT INSULATION. REFER TO WALL SECTIONS, SHEET A2.2
- 3-5/8" STUD WALL:** PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW EACH SIDE. PROVIDE R-11 UNFACED BATT INSULATION. TOP OF PARTITION TO EXTEND 6" ABOVE CEILING.
- 6" STUD WALL:** PROVIDE 6" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EACH SIDE.
- 1 HOUR FIRE RATED 6" STUD WALL:** PROVIDE 6" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" TYPE 'X' GPDW ON EACH SIDE. PROVIDE R-19 UNFACED BATT INSULATION.
- INTERIOR PARTITION WALL CONSTRUCTION:** (PLUMBING WALL) 5/8" GPDW ON EACH SIDE OF 6" 25 GAUGE METAL STUDS AT 2'-0" O.C. PROVIDE 6" UNFACED BATT INSULATION. WALL SHALL EXTEND MINIMUM 6" ABOVE CEILING.

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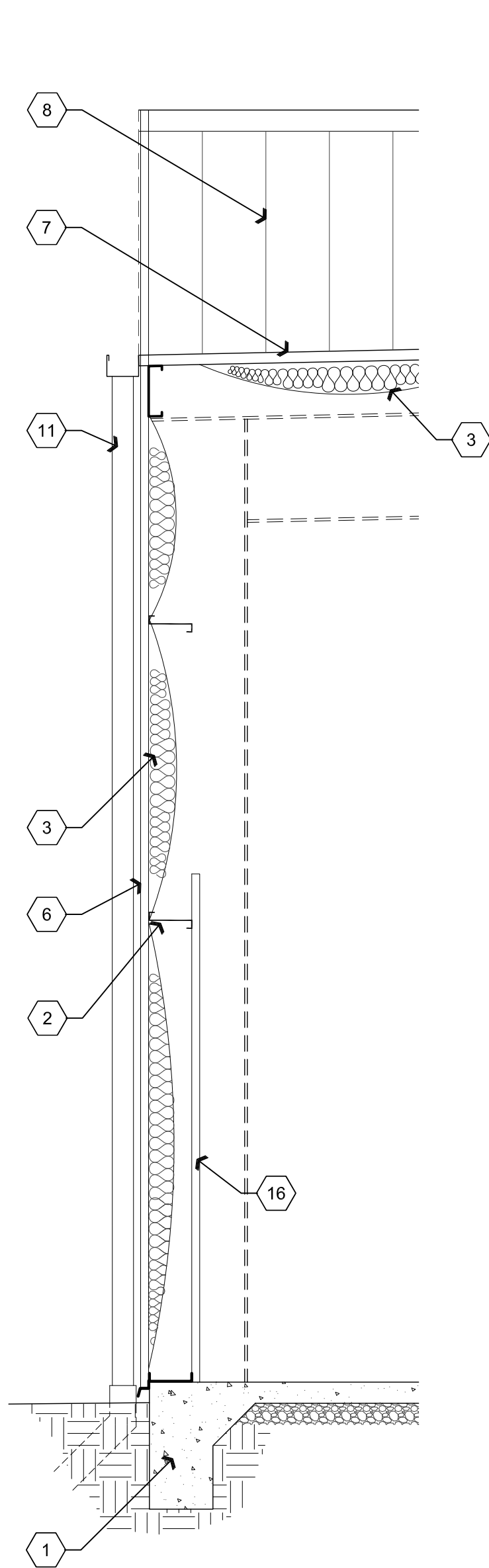
DRAWING: DIMENSION AND WALL TYPES FLOOR PLAN

PROJECT: Heatwole Commercial Building
6397 Lear Ln,
Prescott, AZ 86301

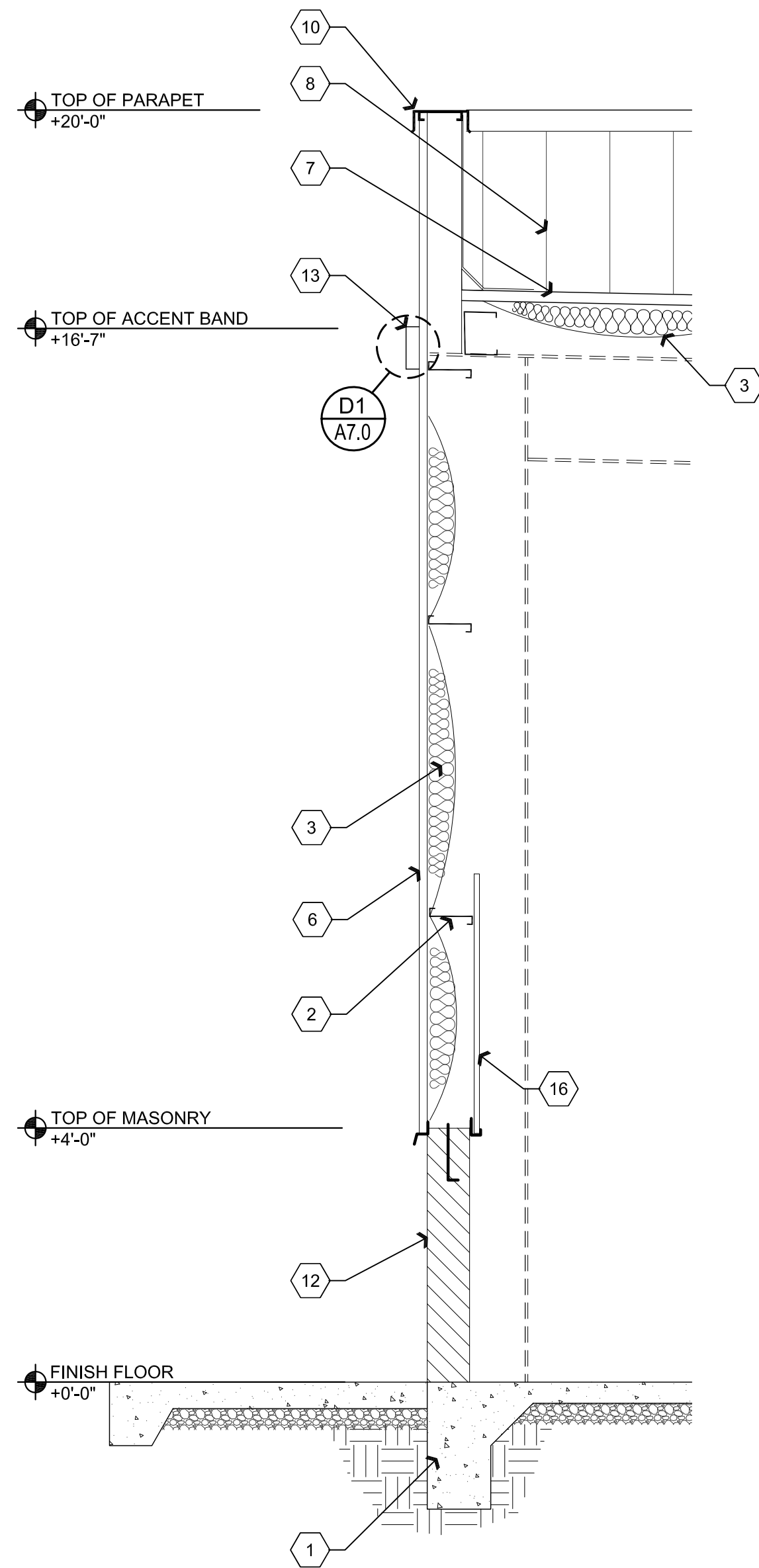
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CHECKED BY	W.A.K.
DATE	September 29, 2015
SCALE	AS NOTED
JOB NO.	672
SHEET	

A2.1

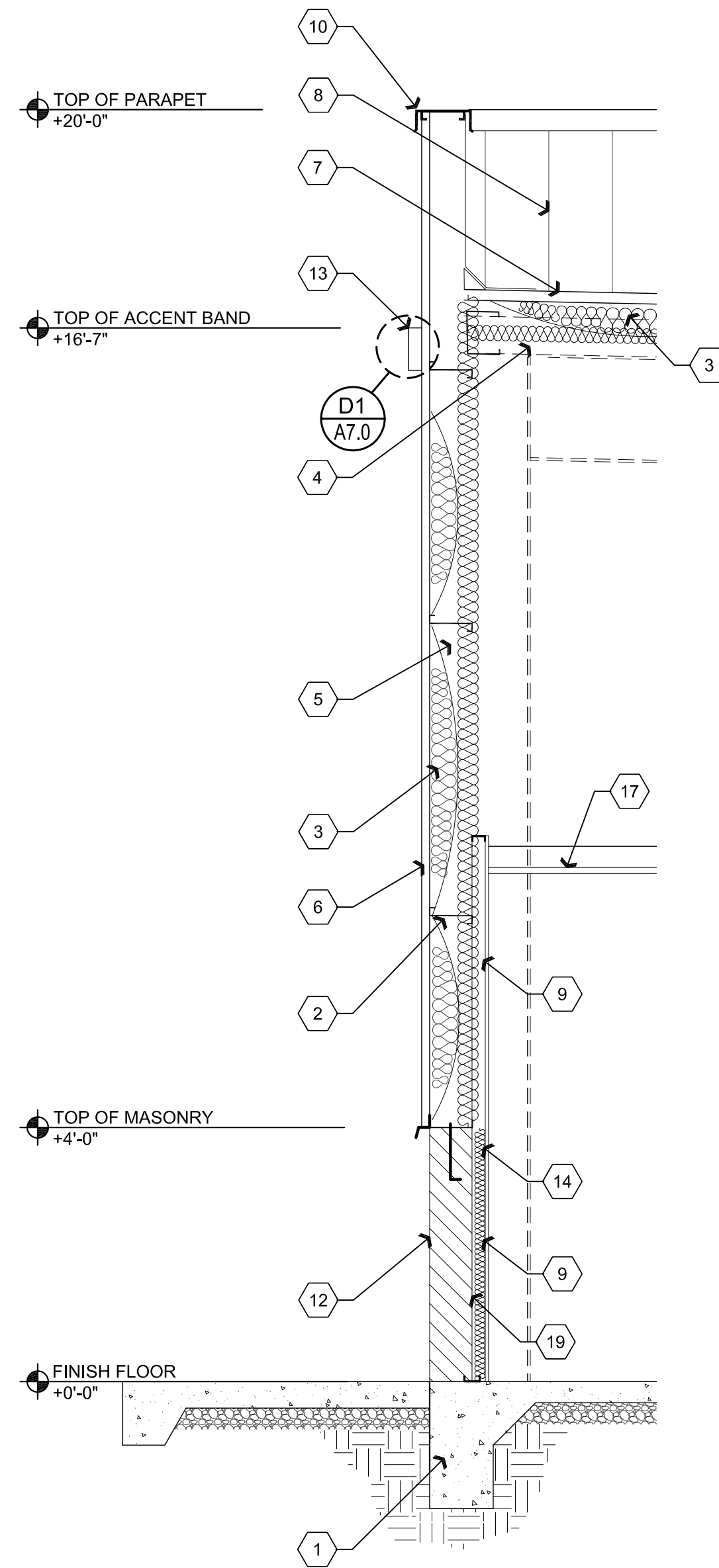
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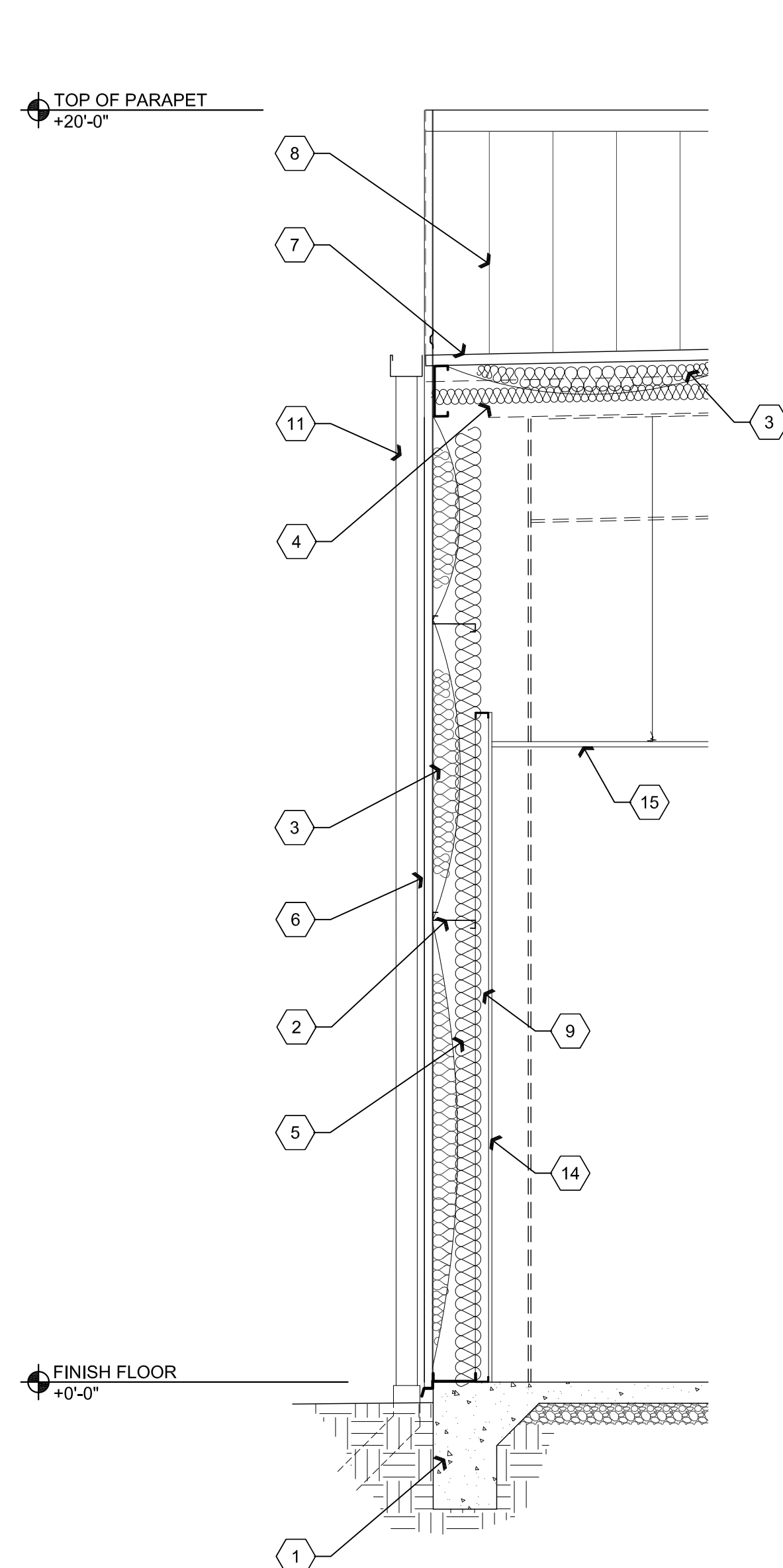
WALL TYPE 'A'



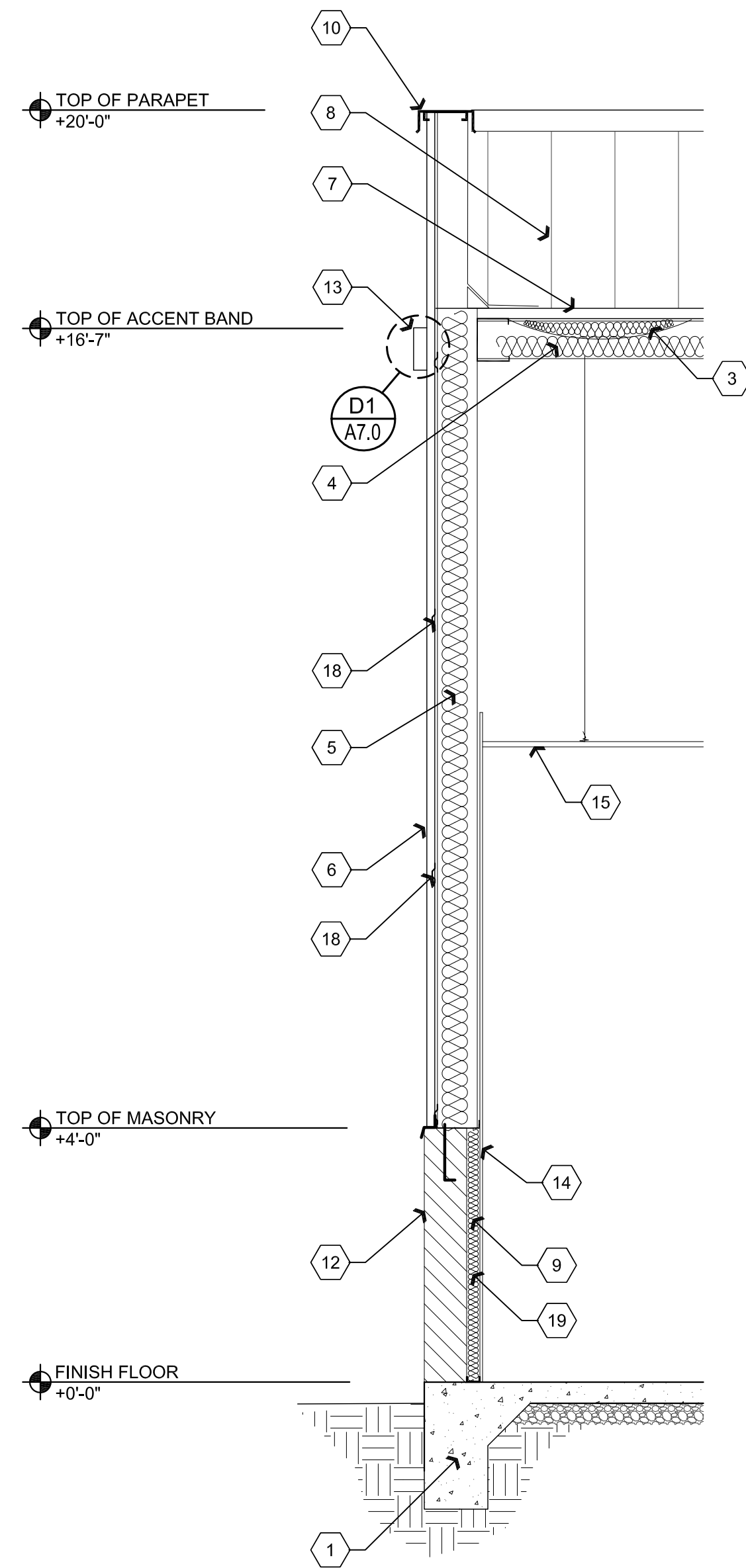
WALL TYPE 'B'



WALL TYPE 'C'



WALL TYPE 'D'



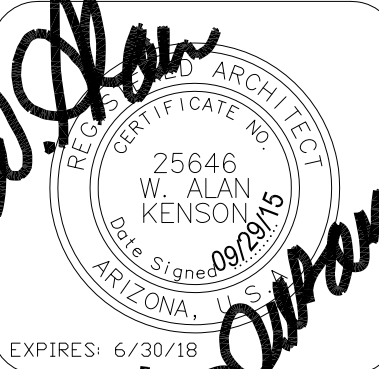
WALL TYPE 'E'

Descriptive Keynotes

1. PROVIDE CONCRETE FOOTING. REFER TO STRUCTURAL PLANS.
2. PROVIDE STEEL GIRT, TYPICAL. REFER TO STRUCTURAL PLANS.
3. PROVIDE R-11 VINYL FACED BLANKET INSULATION.
4. PROVIDE R-19 VINYL FACED BLANKET INSULATION WIRED IN PLACE.
5. PROVIDE R-19 UNFACED BATT INSULATION.
6. PROVIDE ARCHITECTURAL METAL SIDING. M-2
7. PROVIDE STANDING SEAM SHEET METAL ROOF PANELS. REFER TO MATERIAL SCHEDULE. M-1
8. PROVIDE SHEET METAL LINER PANEL ON INSIDE OF PARAPET. REFER TO MATERIAL SCHEDULE. M-4
9. PROVIDE 2 1/2", 25 GAUGE METAL STUDS @ 2'-0" O.C.
10. PROVIDE SHEET METAL PARAPET CAP.
11. PROVIDE SHEET METAL DOWNSPOUT.
12. PROVIDE 4'-0" HIGH, 8"x8"x16" SINGLE-SCORE CONCRETE MASONRY UNIT WAINSCOT. REFER TO STRUCTURAL PLANS. CMU-1
13. ACCENT COLOR BAND. M-3
14. PROVIDE 5/8" GPDW.
15. SUSPENDED ACOUSTICAL CEILING. REFER TO REFLECTED CEILING PLAN. AC-1
16. PROVIDE SHEET METAL LINER PANEL. M-5
17. PROVIDE GPDW CEILING. REFER TO REFLECTED CEILING PLAN.
18. PROVIDE 1/2" SUB-GIRTS @ 48" O.C.
19. PROVIDE R-11 UNFACED BATT INSULATION.

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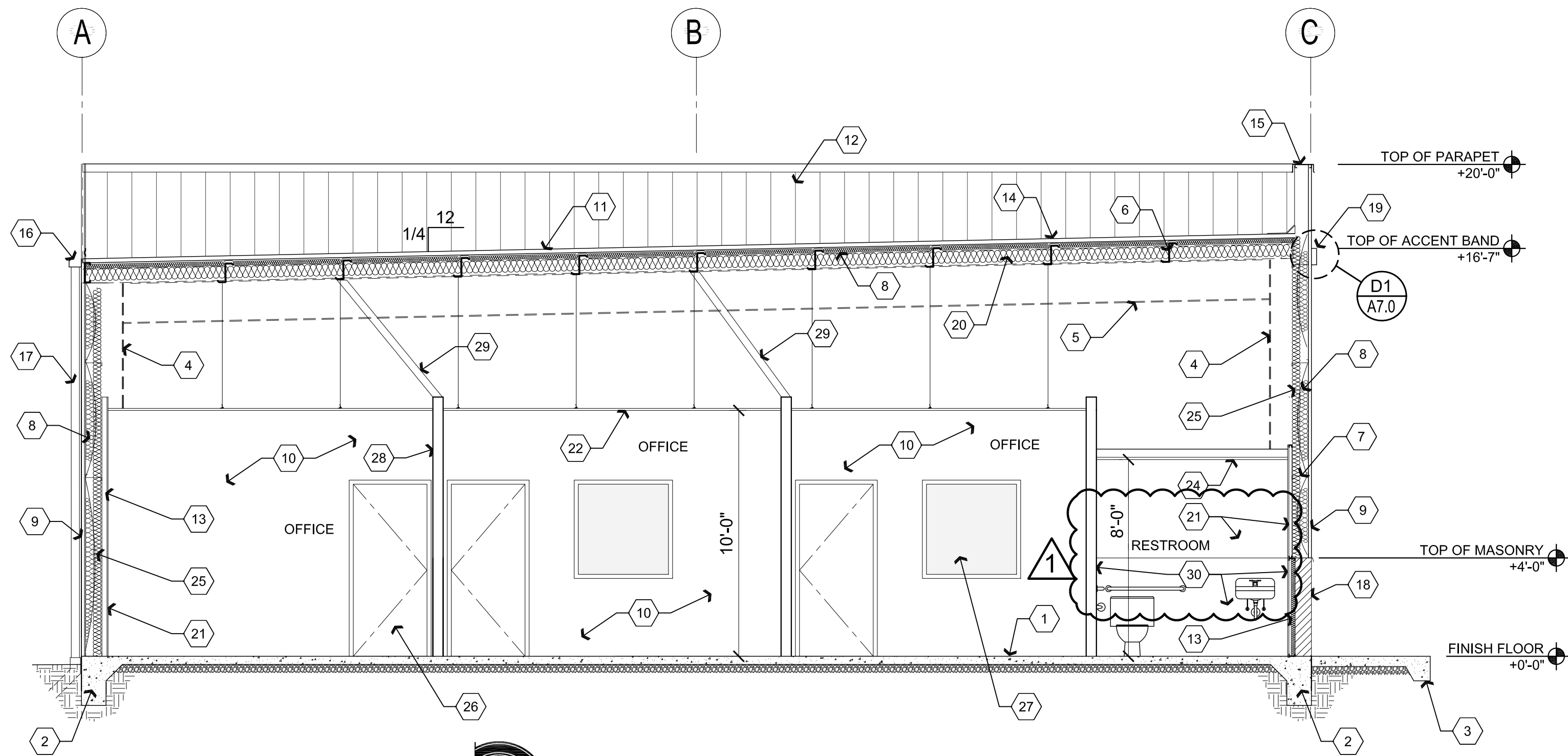
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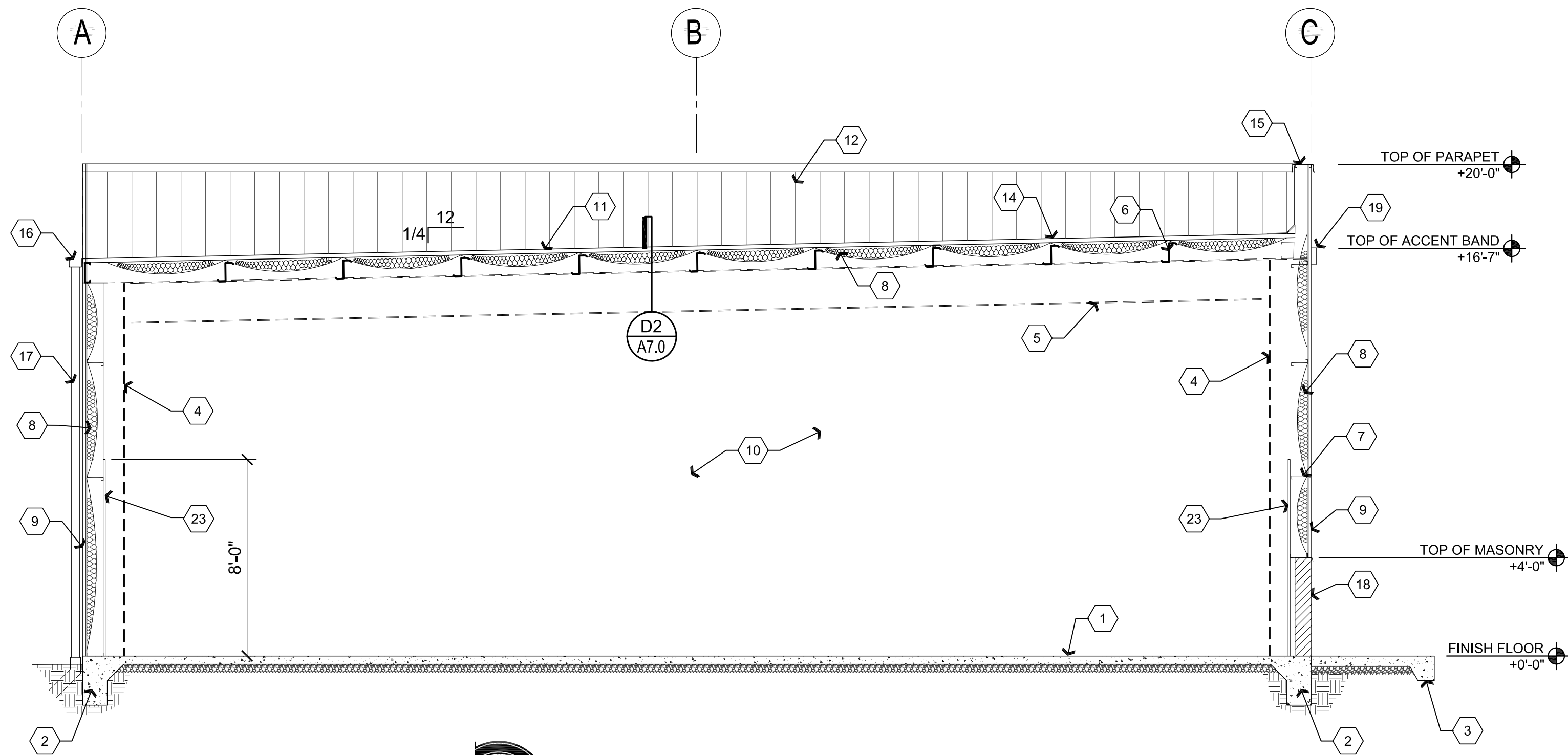
DRAWING: WALL SECTIONS

PROJECT: Heatwole Commercial Building
6397 Lear Ln,
Prescott, AZ 86301

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE September 29, 2015
SCALE AS NOTED
JOB NO. 672
SHEET



B2 Building Section Office Area
Scale: 1/4"=1'-0"



B1 Building Section Warehouse Area
Scale: 1/4"=1'-0"

Descriptive Keynotes

1. PROVIDE CONCRETE SLAB OVER COMPACTED A.B.C., SAWCUT SLAB AT APPROXIMATELY 12'-0" O.C. IN BOTH DIRECTIONS. REFER TO STRUCTURAL PLANS AND ROOM FINISH SCHEDULE.
2. PROVIDE CONCRETE FOOTING. REFER TO STRUCTURAL PLANS.
3. PROVIDE 8" TURNDOWN AT CONCRETE SIDEWALK. REFER TO ARCHITECTURAL SITE PLAN.
4. PROVIDE STEEL COLUMN WITHIN GPDW PARTITION BEYOND. REFER TO STRUCTURAL PLANS.
5. PROVIDE STEEL BEAM WITHIN GPDW PARTITION. REFER TO STRUCTURAL PLANS.
6. PROVIDE ROOF PURLIN, TYPICAL. REFER TO STRUCTURAL PLANS.
7. PROVIDE STEEL GIRT, TYPICAL. REFER TO STRUCTURAL PLANS.
8. PROVIDE R-11 VINYL FACED BLANKET INSULATION.
9. PROVIDE ARCHITECTURAL METAL SIDING. **M-2**
10. GPDW PARTITION BEYOND. REFER TO REFERENCE FLOOR PLAN AND WALL TYPES LEGEND.
11. PROVIDE STANDING SEAM SHEET METAL ROOF PANELS. REFER TO MATERIAL SCHEDULE. **M-1**
12. PROVIDE SHEET METAL LINER PANEL ON INSIDE OF PARAPET. **M-4**
13. PROVIDE 2 1/2". 25 GAUGE METAL STUDS @ 2'-0" O.C.
14. PROVIDE SHEET METAL WALL TO ROOF FLASHING.
15. PROVIDE SHEET METAL PARAPET CAP.
16. PROVIDE SHEET METAL GUTTER.
17. PROVIDE SHEET METAL DOWNSPOUT.
18. PROVIDE 4'-0" HIGH, 8"x8"x16" SINGLE-SCORE CONCRETE MASONRY UNIT WAINSCOT. REFER TO STRUCTURAL PLANS. **CMU-1**
19. ACCENT COLOR BAND. **M-3**
20. PROVIDE R-19 VINYL FACED BLANKET INSULATION WIRED IN PLACE.
21. PROVIDE 5/8" GPDW.
22. SUSPENDED CEILING. REFER TO REFLECTED CEILING PLAN. **AC-1**
23. PROVIDE SHEET METAL LINER PANEL. **M-5**
24. PROVIDE GPDW CEILING. REFER TO REFLECTED CEILING PLAN.
25. PROVIDE R-19 UNFACED BATT INSULATION.
26. PROVIDE DOOR. REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
27. PROVIDE WINDOW. REFER TO REFERENCE FLOOR PLAN AND WINDOW TYPES.
28. PARTITION WALL. REFER TO REFERENCE FLOOR PLAN AND WALL TYPES PLAN.
29. PROVIDE 3/4", 25 GAUGE LATERAL STABILIZATION @ 6'-0" O.C. MAXIMUM.
30. PROVIDE FRP TO 4'-0" HIGH ON ALL RESTROOM WALLS.

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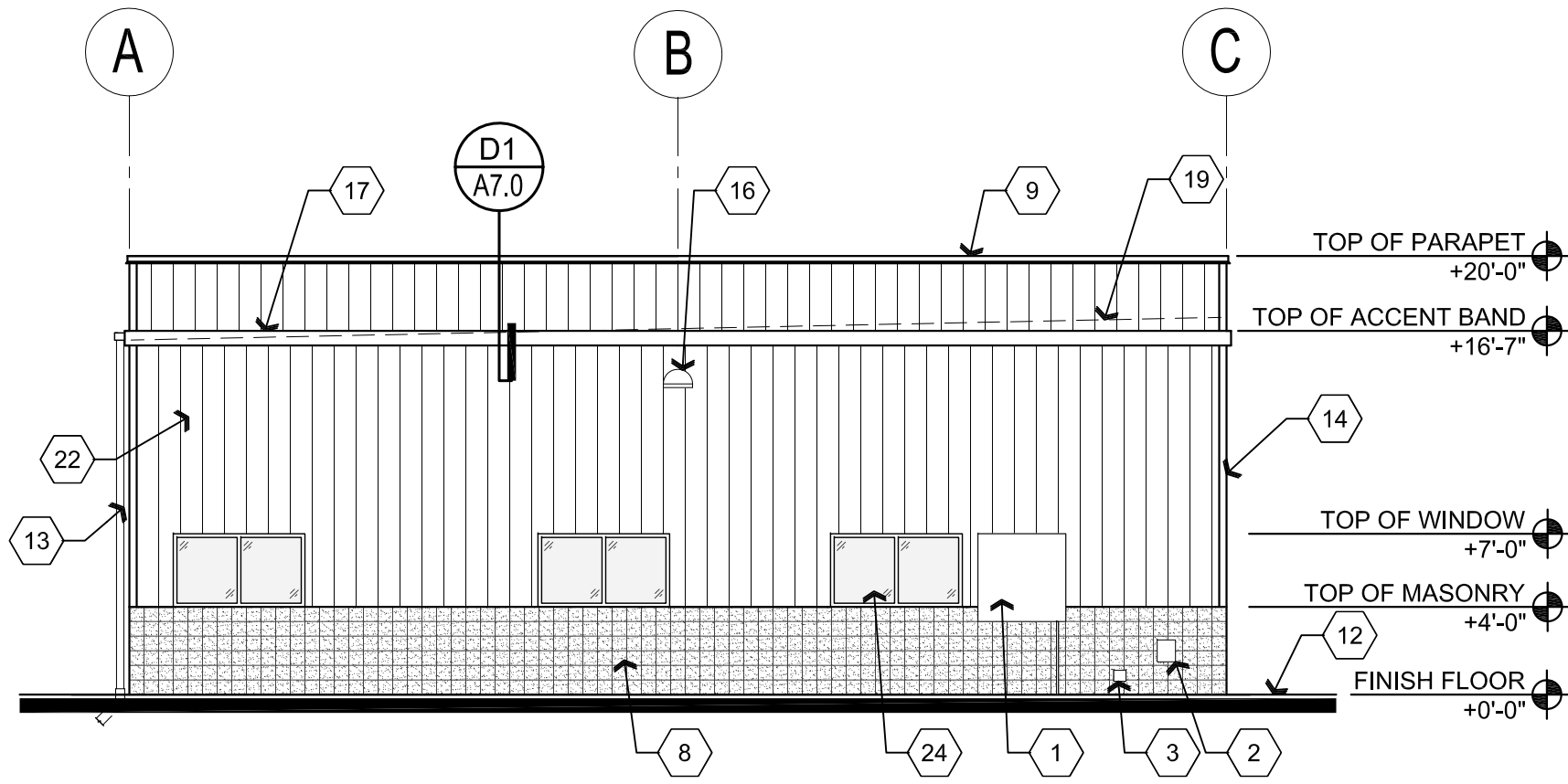
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ARCHITECTURE & PLANNING

DRAWING: BUILDING SECTION
PROJECT: Heatwale Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

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L.O.
CHECKED BY
W.A.K.
DATE
September 29, 2015
SCALE
AS NOTED
JOB NO.
672
SHEET

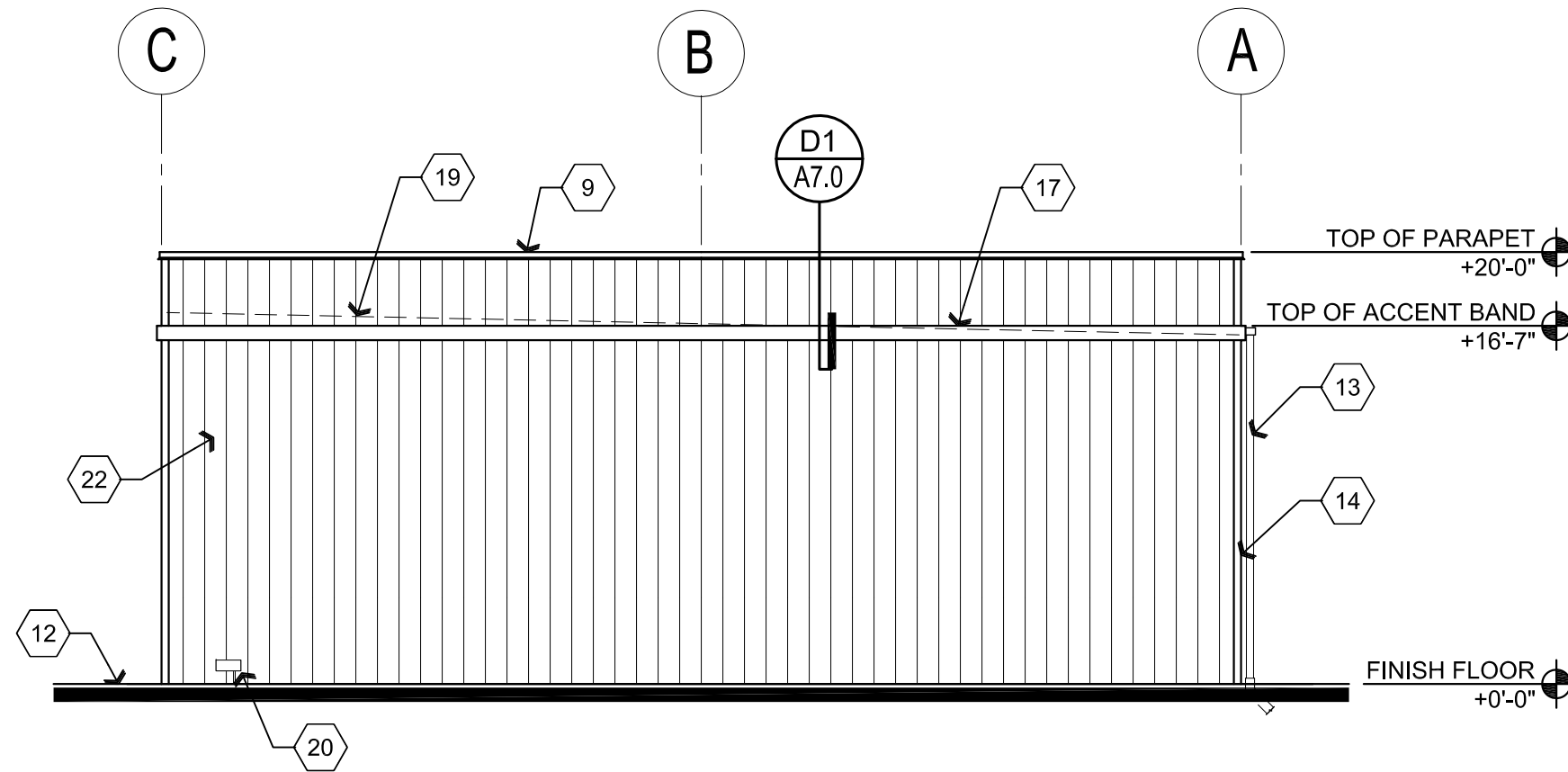
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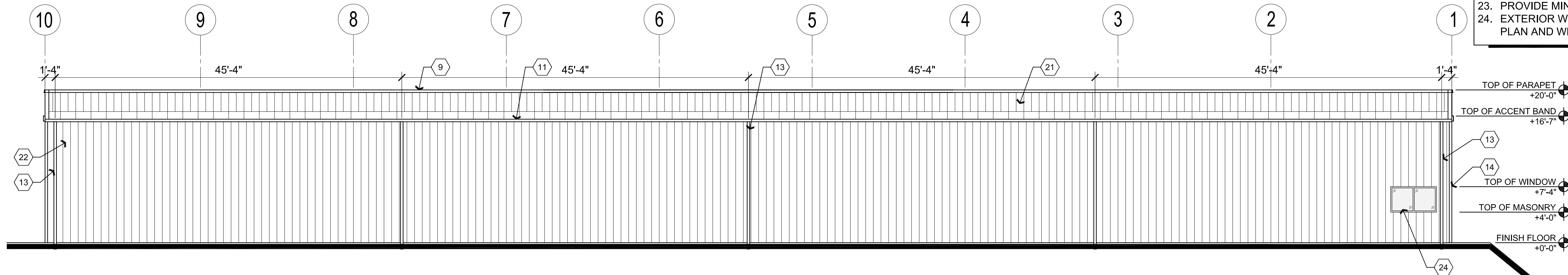
A3 North Elevation

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



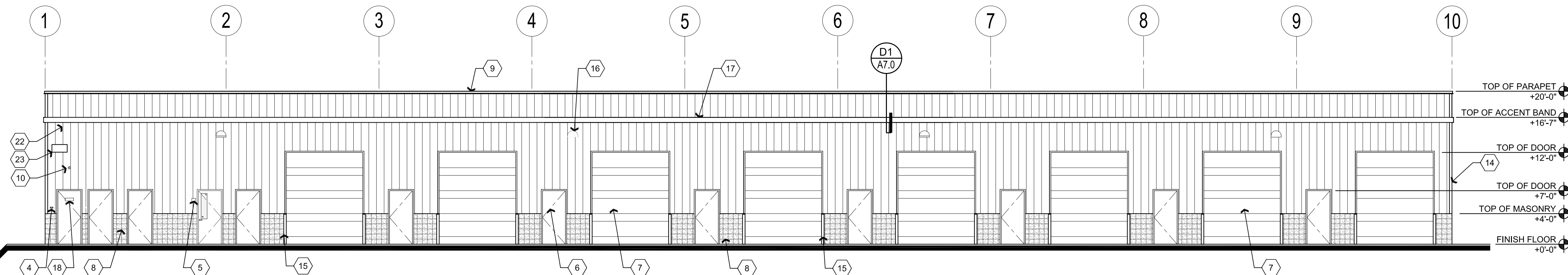
B3 North Elevation

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



A2 East Elevation

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



A1 West Elevation

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

Descriptive Keynotes

1. PROVIDE ELECTRICAL SERVICE ENTRANCE SECTION, REFER TO ELECTRICAL PLANS.
2. PROVIDE LANDSCAPE TIME CLOCK.
3. PROVIDE CABLE TV TERMINAL BOX, REFER TO ELECTRICAL PLANS.
4. PROVIDE FIRE DEPARTMENT CONNECTION WITH LOCKING CAPS, REFER TO FIRE SPRINKLER PLANS.
5. PROVIDE FIRE DEPARTMENT LOCK BOX MOUNTED 6'-0" A.F.F.
6. HOLLOW METAL DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
7. OVERHEAD DOOR, REFER TO REFERENCE FLOOR PLAN AND DOOR SCHEDULE.
8. 4'-0" HIGH 8"x8"x16" SINGLE SCORE CMU WITH RAKED JOINTS, REFER TO STRUCTURAL PLANS.
9. PROVIDE SHEET METAL PARAPET CAP. M-7
10. PROVIDE FIRE ALARM GONG. REFER TO AUTOMATIC FIRE SPRINKLER PLANS.
11. PROVIDE SHEET METAL GUTTER. M-8
12. PROVIDE CONCRETE SIDEWALK, REFER TO ARCHITECTURAL SITE PLAN.
13. PROVIDE SHEET METAL DOWNSPOUT. M-6
14. PROVIDE SHEET METAL CORNER TRIM.
15. 4" STEEL CONCRETE FILLED BOLLARDS, 4'-0" ABOVE CONCRETE WITH 2'-0" EMBEDDED INTO CONCRETE FOOTING BELOW, TYPICAL.
16. LIGHT FIXTURE, REFER TO ELECTRICAL PLANS.
17. PROVIDE ACCENT COLOR BAND. M-3
18. PROVIDE SIGN STATING "FIRE RISER INSIDE". LETTERS SHALL BE MINIMUM OF 1" TALL, RED IN COLOR ON WHITE BACKGROUND.
19. LINE OF ROOF BEYOND PARAPET.
20. PROVIDE NATURAL GAS METER / REGULATOR. REFER TO PLUMBING PLANS.
21. PROVIDE SHEET METAL LINER PANEL ON INSIDE OF PARAPET. REFER TO MATERIALS SCHEDULE. M-4
22. PROVIDE METAL WALL PANEL. REFER TO STRUCTURAL PLANS, WALL TYPES AND MATERIALS SCHEDULE. M-2
23. PROVIDE MINIMUM 6" HIGH ADDRESS NUMBERS.
24. EXTERIOR WINDOW. REFER TO REFERENCE FLOOR PLAN AND WINDOW TYPES.

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ARCHITECTURE & PLANNING

DRAWING: EXTERIOR ELEVATIONS

PROJECT: Heatwave Commercial Building
6397 Lear Ln,
Prescott, AZ 86301

DRAWN BY
L.O.
CHECKED BY
W.A.K.
DATE
September 29, 2015
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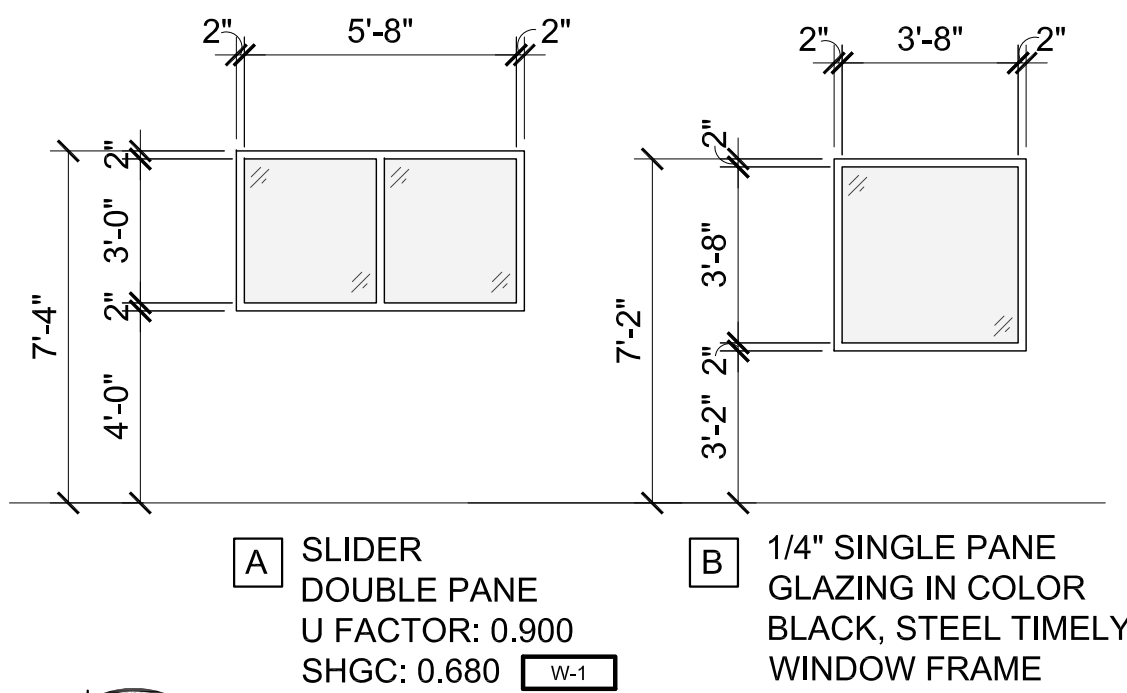
Nov 12, 2015 - 12:00pm

Door Schedule

NO.	ROOM NAME	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE TYPE	COMMENTS
100A	OFFICE	3'-0"x7'-0"	A	S.C. WOOD	PRE-FINISHED STAIN	STEEL	PAINT	HW-05	
101A	OFFICE	3'-0"x7'-0"	A	S.C. WOOD	PRE-FINISHED STAIN	STEEL	PAINT	HW-05	
102A	OFFICE	3'-0"x7'-0"	A	S.C. WOOD	PRE-FINISHED STAIN	STEEL	PAINT	HW-05	
103A	CLOSET	3'-0"x7'-0"	A	S.C. WOOD	PRE-FINISHED STAIN	STEEL	PAINT	HW-04	
104A	FIRE RISER	3'-0"x7'-0"	B	H.M.	PAINT	H.M.	PAINT	HW-02	
105A	JANITOR	3'-0"x7'-0"	B	H.M.	PAINT	H.M.	PAINT	HW-02	
106A	RESTROOM	3'-0"x7'-0"	B	H.M.	PAINT	H.M.	PAINT	HW-02	
107A	CORRIDOR	3'-0"x7'-0"	C	H.M.	PAINT	H.M.	PAINT	HW-02	
108A	RESTROOM	3'-0"x7'-0"	A	S.C. WOOD	PRE-FINISHED STAIN	STEEL	PAINT	HW-01	
109A	WAREHOUSE	3'-0"x7'-0"	B	H.M.	PAINT	H.M.	PAINT	HW-02	
109B	WAREHOUSE	10'-0"x12'-0"	D	STEEL	PAINT	STEEL	PAINT	HW-03	CHAIN HOIST OVERHEAD DOOR
110A	WAREHOUSE	3'-0"x7'-0"	B	H.M.	PAINT	H.M.	PAINT	HW-02	
110B	WAREHOUSE	10'-0"x12'-0"	D	STEEL	PAINT	STEEL	PAINT	HW-03	CHAIN HOIST OVERHEAD DOOR
111A	WAREHOUSE	3'-0"x7'-0"	B	H.M.	PAINT	H.M.	PAINT	HW-02	
111B	WAREHOUSE	10'-0"x12'-0"	D	STEEL	PAINT	STEEL	PAINT	HW-03	CHAIN HOIST OVERHEAD DOOR
112A	WAREHOUSE	3'-0"x7'-0"	B	H.M.	PAINT	H.M.	PAINT	HW-02	
112B	WAREHOUSE	10'-0"x12'-0"	D	STEEL	PAINT	STEEL	PAINT	HW-03	CHAIN HOIST OVERHEAD DOOR
113A	WAREHOUSE	3'-0"x7'-0"	B	H.M.	PAINT	H.M.	PAINT	HW-02	
113B	WAREHOUSE	10'-0"x12'-0"	D	STEEL	PAINT	STEEL	PAINT	HW-03	CHAIN HOIST OVERHEAD DOOR
114A	WAREHOUSE	3'-0"x7'-0"	B	H.M.	PAINT	H.M.	PAINT	HW-02	
114B	WAREHOUSE	10'-0"x12'-0"	D	STEEL	PAINT	STEEL	PAINT	HW-03	CHAIN HOIST OVERHEAD DOOR
115A	WAREHOUSE	3'-0"x7'-0"	B	H.M.	PAINT	H.M.	PAINT	HW-02	
115B	WAREHOUSE	10'-0"x12'-0"	D	STEEL	PAINT	STEEL	PAINT	HW-03	CHAIN HOIST OVERHEAD DOOR
116A	WAREHOUSE	3'-0"x7'-0"	B	H.M.	PAINT	H.M.	PAINT	HW-02	
116B	WAREHOUSE	10'-0"x12'-0"	D	STEEL	PAINT	STEEL	PAINT	HW-03	CHAIN HOIST OVERHEAD DOOR

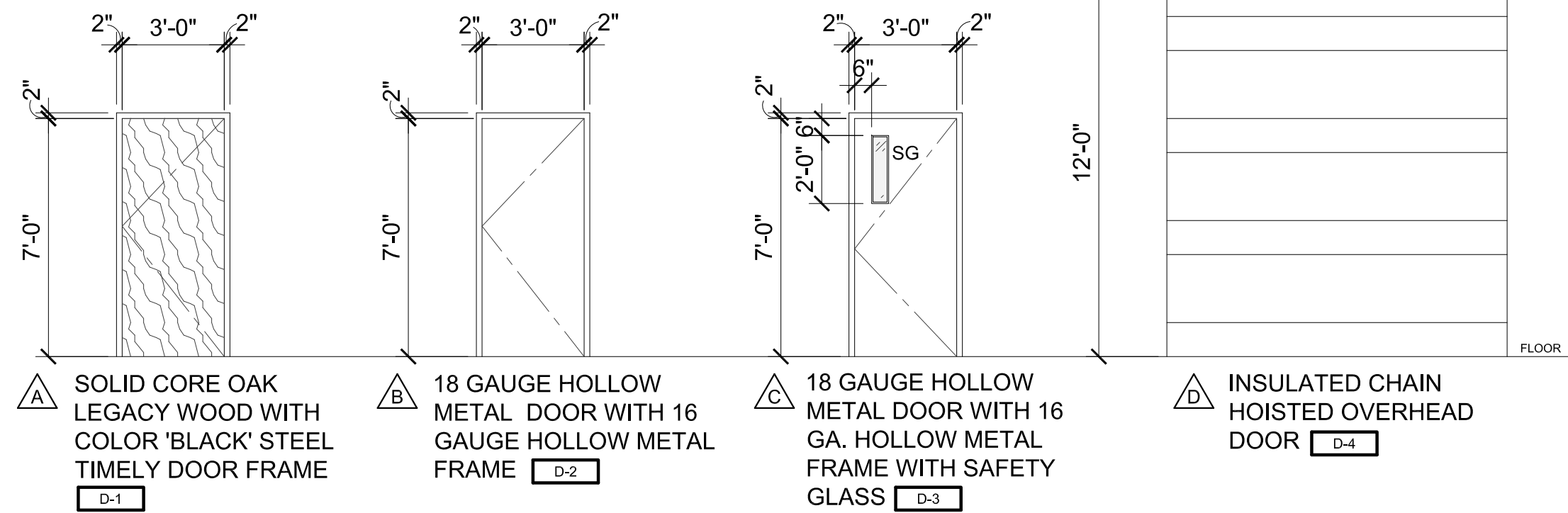
DOOR NOTES:

- ALL EXIT DOORS & HARDWARE SHALL COMPLY WITH THE 2012 I.B.C.
- 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.
- ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING.
- ALL INTERIOR DOORS SHALL BE OPERABLE FOR EMERGENCY EXITING PURPOSES WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE NOR EFFORT.
- ALL GLAZING WITHIN 24" OF OPENINGS SHALL BE SAFETY GLASS.
- 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.
- 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.
- 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.



A1 Window Types

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

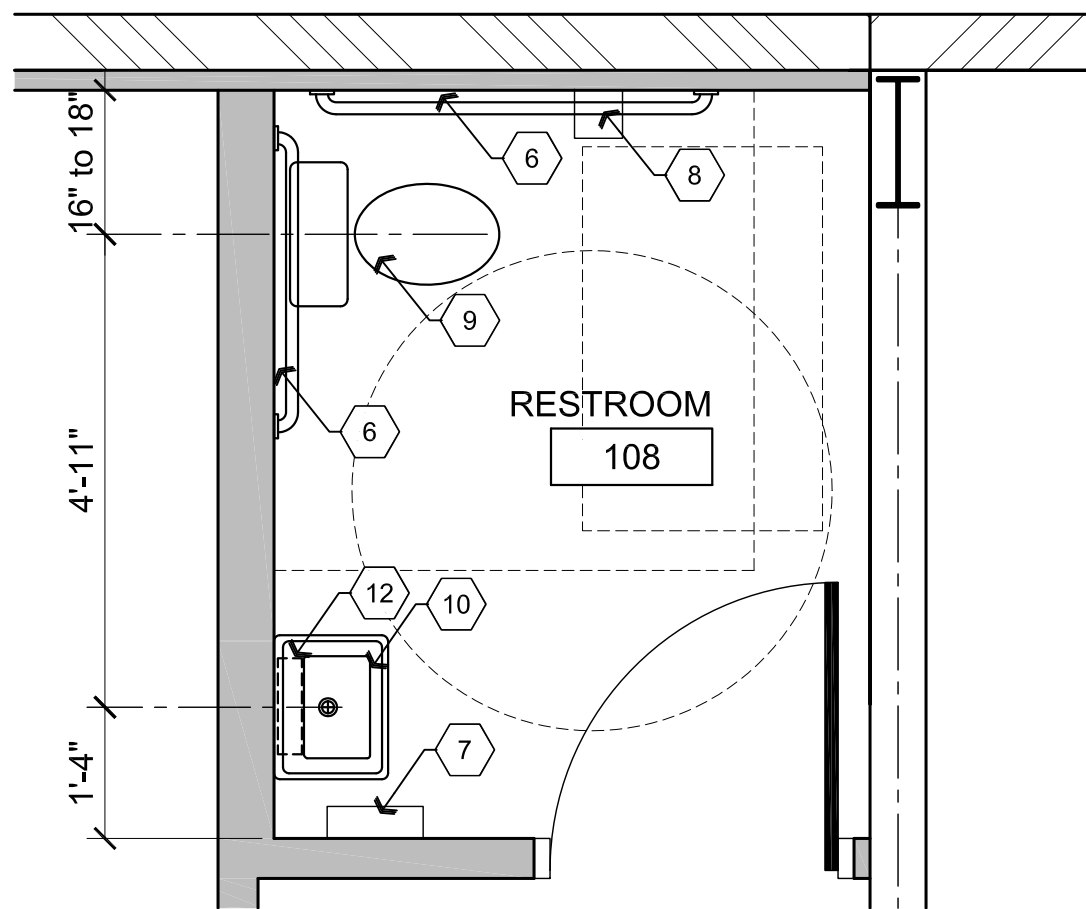


A1 Door Types

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

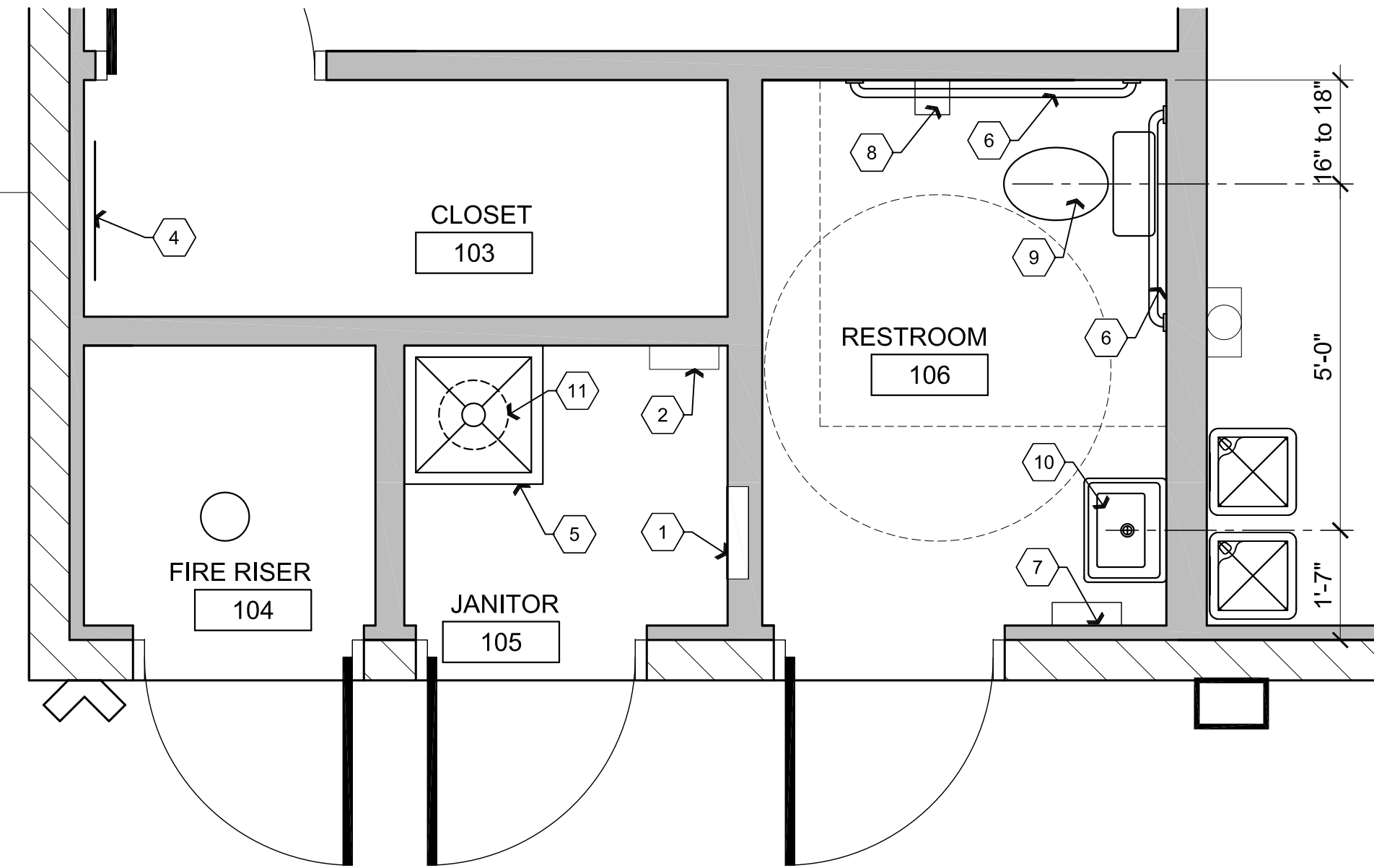
Hardware Schedule

- HW-01:** LEVER PRIVACY LOCK, WALL STOP
- HW-02:** LEVER ENTRY LOCK, CHAIN STOP, WEATHER STRIP, THRESHOLD, DOOR BOTTOM
- HW-03:** (CHAIN HOISTED OVERHEAD DOOR)
- HW-04:** LEVER PASSAGE LOCK, WALL STOP
- HW-05:** LEVER ENTRY LOCK, WALL STOP



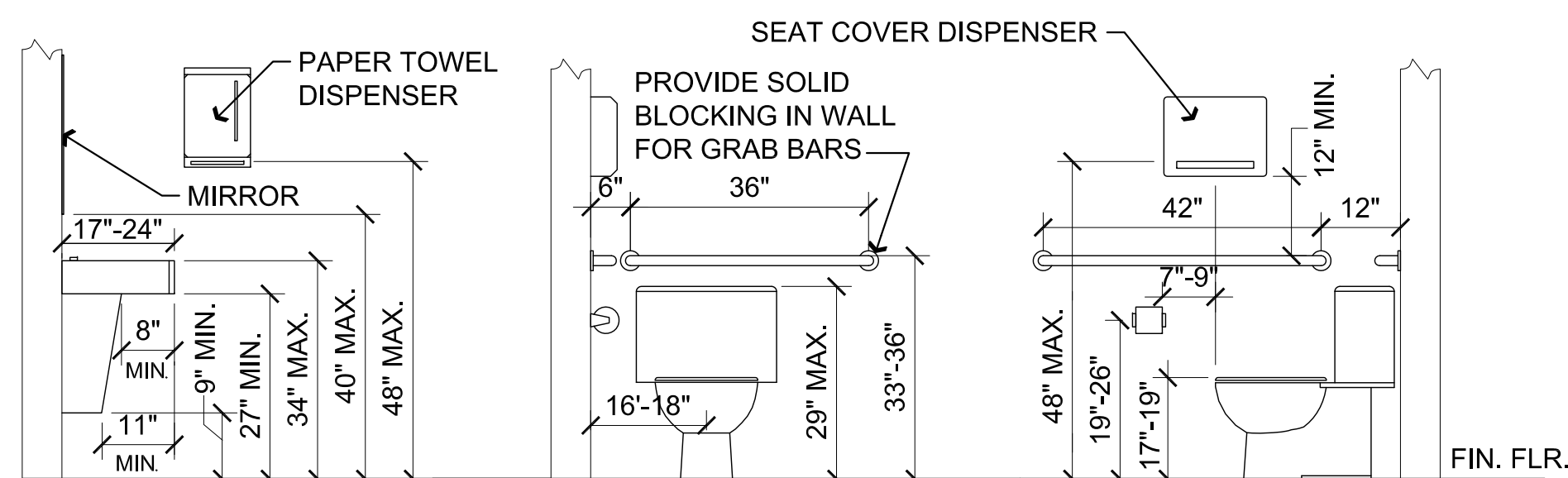
C1 Enlarged Plan

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



C2 Enlarged Plan

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



C1 Typical Fixture Mounting Heights

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

Descriptive Keynotes

- PROVIDE RECESSED ELECTRICAL PANEL. REFER TO ELECTRICAL PLANS.
- PROVIDE SURFACE MOUNTED FIRE ALARM PANEL. REFER TO ELECTRICAL PLAN AND FIRE ALARM PLANS.
- NOT USED.
- PROVIDE TELEPHONE MOUNTING BOARD. REFER TO ELECTRICAL PLANS.
- PROVIDE MOP SINK. REFER TO PLUMBING PLANS.
- PROVIDE 1 1/2" DIAMETER GRAB BARS PER A.D.A. REQUIREMENTS. 42" LONG AT REAR OF WATER CLOSET / 36" LONG AT REAR OF WATER CLOSET. REFER TO TYPICAL FIXTURE MOUNTING HEIGHTS THIS SHEET.
- PROVIDE 'C' FOLD PAPER TOWEL DISPENSER. REFER TO TYPICAL FIXTURE MOUNTING HEIGHTS THIS SHEET.
- PROVIDE TOILET PAPER HOLDER. REFER TO TYPICAL FIXTURE MOUNTING HEIGHTS THIS SHEET.
- PROVIDE TANK TYPE, HANDICAP TYPE WATER CLOSET. REFER TO PLUMBING PLANS AND TYPICAL FIXTURE MOUNTING HEIGHTS THIS SHEET.
- PROVIDE LAVATORY. REFER TO PLUMBING PLANS AND TYPICAL FIXTURE MOUNTING HEIGHTS THIS SHEET.
- PROVIDE ELECTRIC WATER HEATER ON SHELF ABOVE MOP SINK, WITH EXPANSION TANK. REFER TO PLUMBING PLANS.
- INSTANTANEOUS WATER HEATER BELOW SINK. REFER TO PLUMBING PLANS.

REVISIONS

BY

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ARCHITECTURE & PLANNING

DRAWING: ENLARGED PLANS AND DOOR SCHEDULE

PROJECT: Heatwale Commercial Building
6397 Lear Ln,
Prescott, AZ 86301

DRAWN BY
L.O.

CHECKED BY
W.A.K.

DATE
September 29, 2015

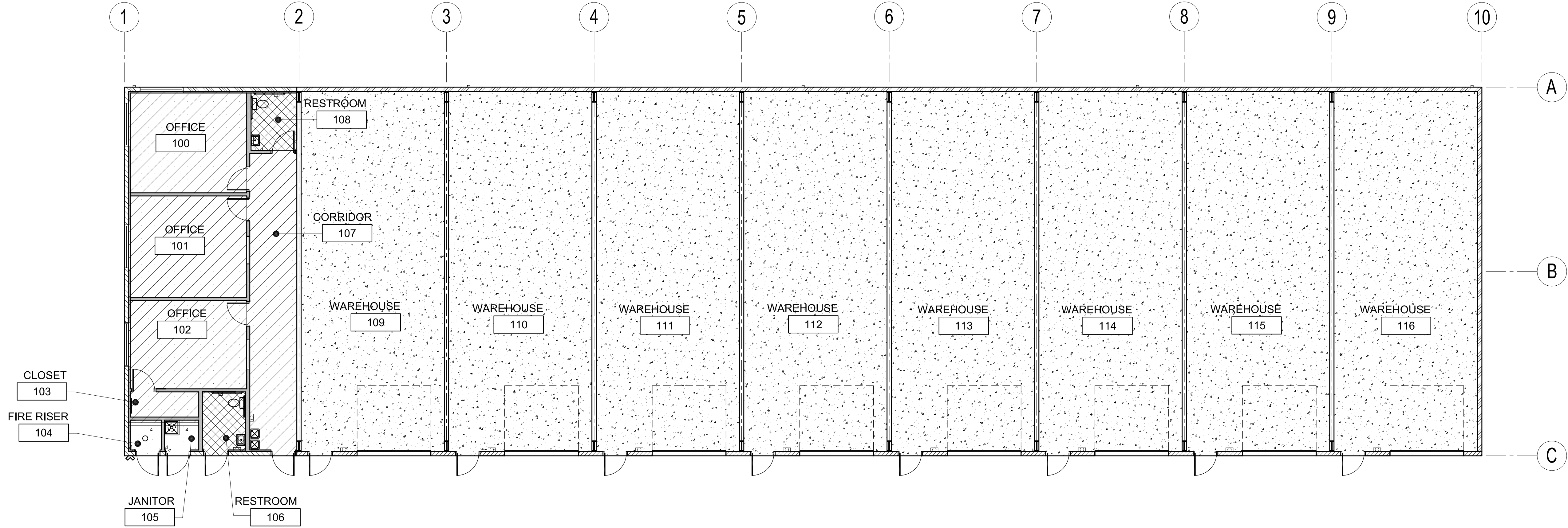
SCALE
AS NOTED

JOB NO.
672

SHEET

A6.0

Nov 12, 2015 - 12:00pm



A1 Room Finish Plan

Materials schedule XX- #				
CODE	MATERIAL	LOCATION	MANUFACTURER	SPECIFICATION
AC-1	ACOUSTICAL CEILING TILE	REFER TO REFLECTED CEILING PLAN	ARMSTRONG	ASTM C36; 2'x2'x5/8" #770 NON DIRECTIONAL SQUARE LAY IN TILE
CMU-1	CMU	EXTERIOR WAINSCOT - REFER TO EXTERIOR ELEVATIONS	YAVAPAI BLOCK	15/16" WHITE SUSPENDED METAL T-BAR GRID
CPT-1	CARPET	OFFICES, CLOSET, CORRIDOR		TO BE DETERMINED
D-1	DOOR	OFFICES, CLOSET & RESTROOM	HALEY	SOLID CORE OAK LEGACY WOOD WITH BLACK STEEL TIMELY DOOR FRAME
D-2	DOOR	EXTERIOR DOORS		18 GAUGE HOLLOW METAL DOOR WITH 16 GAUGE HOLLOW METAL FRAME
D-3	DOOR	EXTERIOR ENTRANCE INTO OFFICE CORRIDOR		18 GAUGE HOLLOW METAL DOOR WITH CLASSROOM STYLE SAFETY GLASS WITH 16 GAUGE HOLLOW METAL FRAME
D-4	DOOR	WAREHOUSE BAYS	CHI	INSULATED RIBBED STEEL OVERHEAD DOOR WITH CHAIN HOIST, MODEL 3241, PAINTED BURNISHED SLATE (SIGNATURE 200)
FRP-1	FIBERGLASS REINFORCED PLASTIC			
M-1	METAL ROOF PANEL	ROOF	MBCI	ULTRA DEK 24 GA., GALVALUME
M-2	EXTERIOR METAL WALL PANEL	EXTERIOR WALLS	MBCI	PBA PANEL 26 GA. PRE-PAINTED, DESERT SAND (SIGNATURE 200)
M-3	EXTERIOR METAL TRIM	EXTERIOR WALLS AS INDICATED ON ELEVATION PLANS	MBCI	22 GA. CUSTOM BENT SHAPE PRE-PAINTED, BURNISHED SLATE (SIGNATURE 200), REFER TO DETAIL D1/A7.0
M-4	EXTERIOR METAL LINER PANEL	INTERIOR OF PARAPETS	MBCI	PBR PANEL 26 GA. PRE-PAINTED, DESERT SAND (SIGNATURE 200)
M-5	METAL LINER PANEL	INTERIOR OF EXTERIOR WALLS UP TO 8'-0" A.F.F.	MBCI	PBR PANEL 26 GA. PRE-PAINTED, POLAR WHITE (SIGNATURE 200)
M-6	DOWNSPOUTS/ GUTTER	EXTERIOR EAST SIDE OF BUILDING	MBCI	PAINTED BURNISHED SLATE (SIGNATURE 200)
M-7	PARAPET CAP	EXTERIOR NORTH, SOUTH AND WEST SIDES OF BUILDING	MBCI	PAINTED BURNISHED SLATE (SIGNATURE 200)
PT-1	PAINT	EXTERIOR CMU	SHERWIN WILLIAMS	ROYCROFT COPPER RED
PT-2	PAINT	INTERIOR WALLS	SHERWIN WILLIAMS	TO BE DETERMINED
PT-3	PAINT	GPDW CEILINGS	SHERWIN WILLIAMS	TO BE DETERMINED
RB-1	RUBBER BASE	REFER TO ROOM FINISH SCHEDULE	ROPPE	BLACK / BROWN
VCT-1	VINYL COMPOSITION TILE	RESTROOM FLOORS	ARMSTRONG	TO BE DETERMINED
W-1	WINDOW	OFFICES	M&I	6'x4' SLIDER

Legend	
	CARPET CPT-1
	CONCRETE FLOOR SURFACE
	VCT VCT-1

FLOOR:	
F1	CARPET CPT-1
F2	VCT VCT-1
F3	CONCRETE
BASE:	
B1	RUBBER BASE RB-1
B2	NONE
WALLS:	
W1	PAINTED GPDW PT-2
W2	4'-0" F.R.P. WAINSCOT FRP-1
W3	PAINTED CMU / SHEET METAL LINER PANEL PT-1 M-5
W4	SHEET METAL LINER PANEL M-5
CEILING:	
C1	PAINTED GPDW PT-3
C2	EXPOSED STRUCTURE
C3	2x2 SUSPENDED ACOUSTICAL PANELS AC-1

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

REVISIONS	BY

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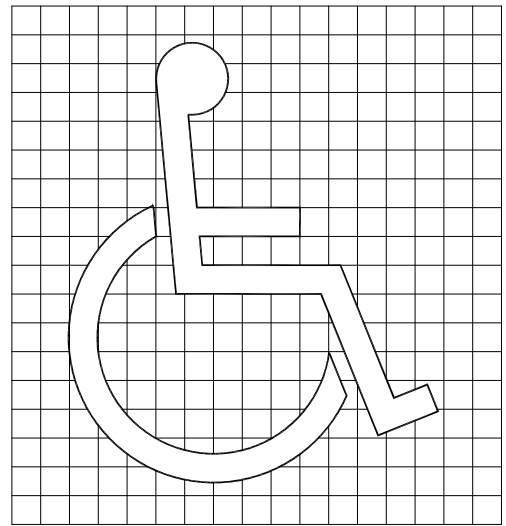
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email: waka@cableone.net
www.kenson-associates.com

DRAWING: ROOM FINISH SCHEDULE, ROOM FINISH PLAN AND MATERIALS SCHEDULE

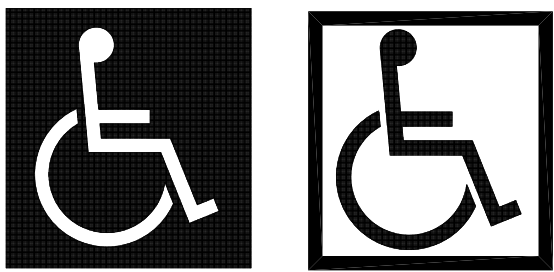
PROJECT: Heatwale Commercial Building
6397 Lear Ln,
Prescott, AZ 86301

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE September 29, 2015
SCALE AS NOTED
JOB NO. 672
SHEET

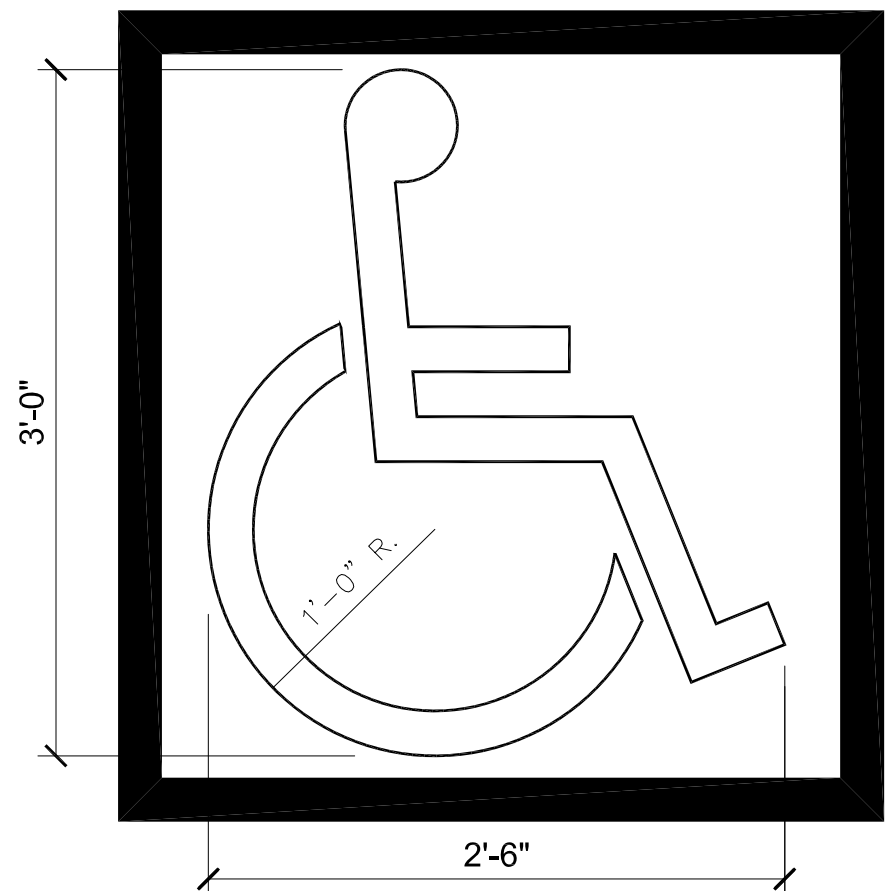
A6.1



PROPORTIONS



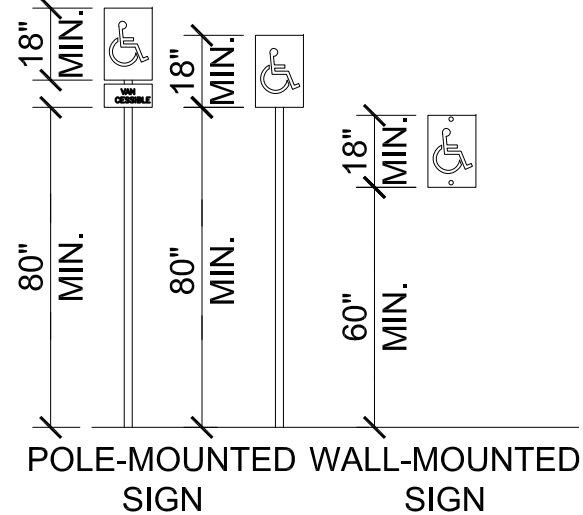
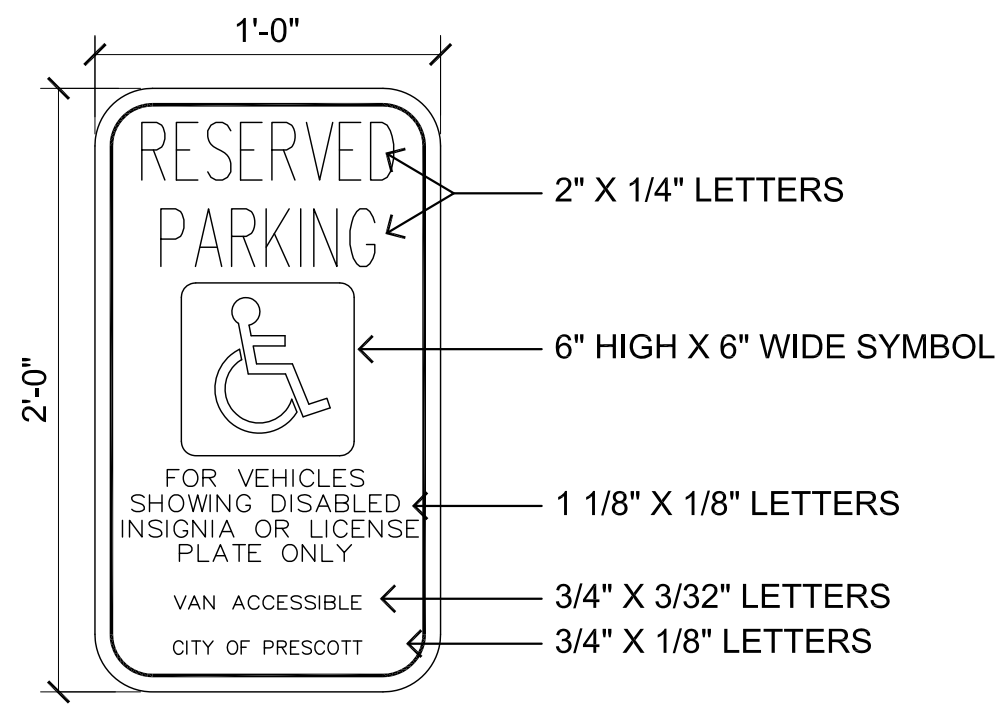
DISPLAY CONDITIONS



SYMBOL @ PARKING SPACE

A3 ADA Symbol of Accessibility

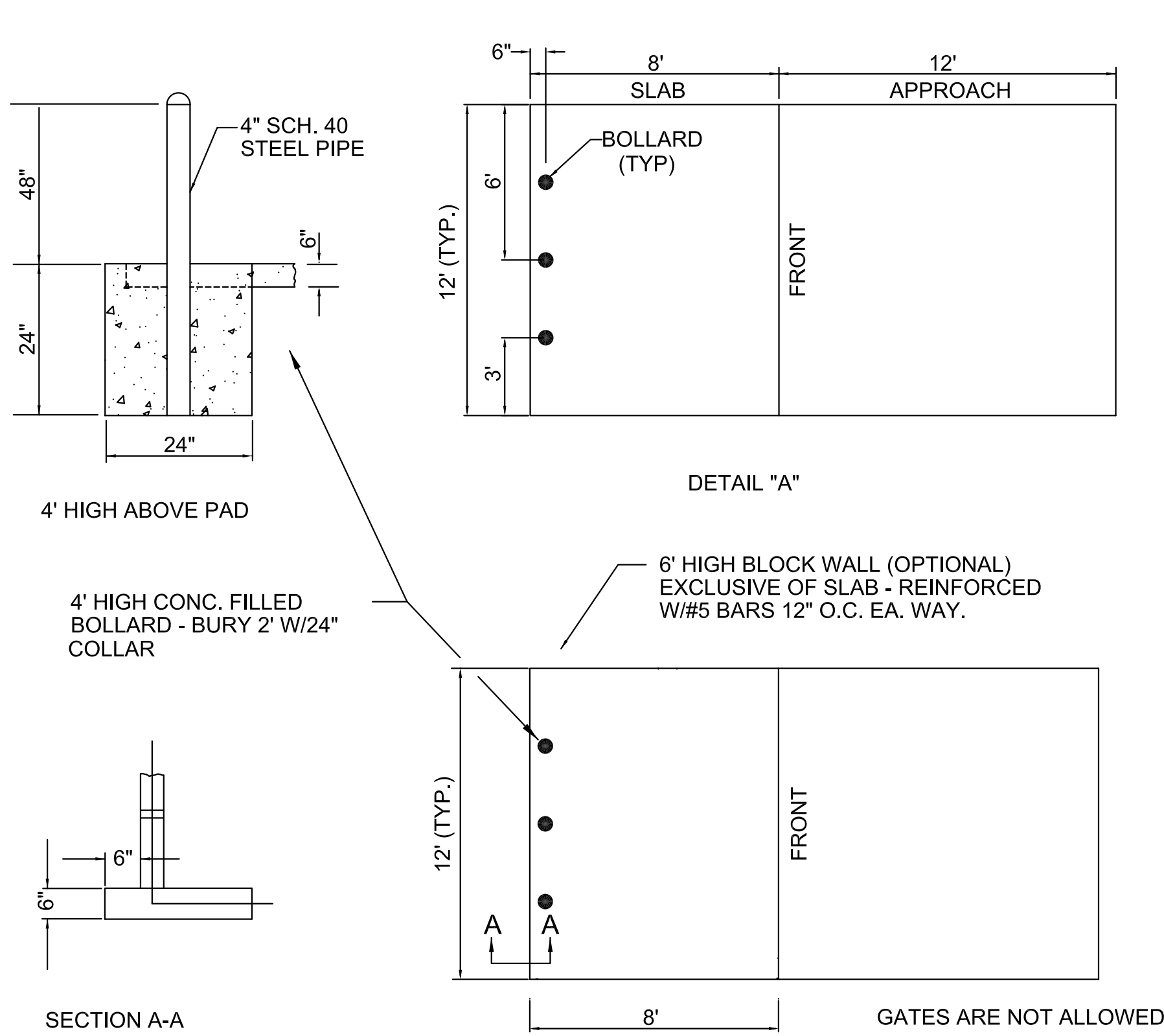
SCALE: N.T.S.



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.

B3 Accessible Parking Signage

SCALE: N.T.S.

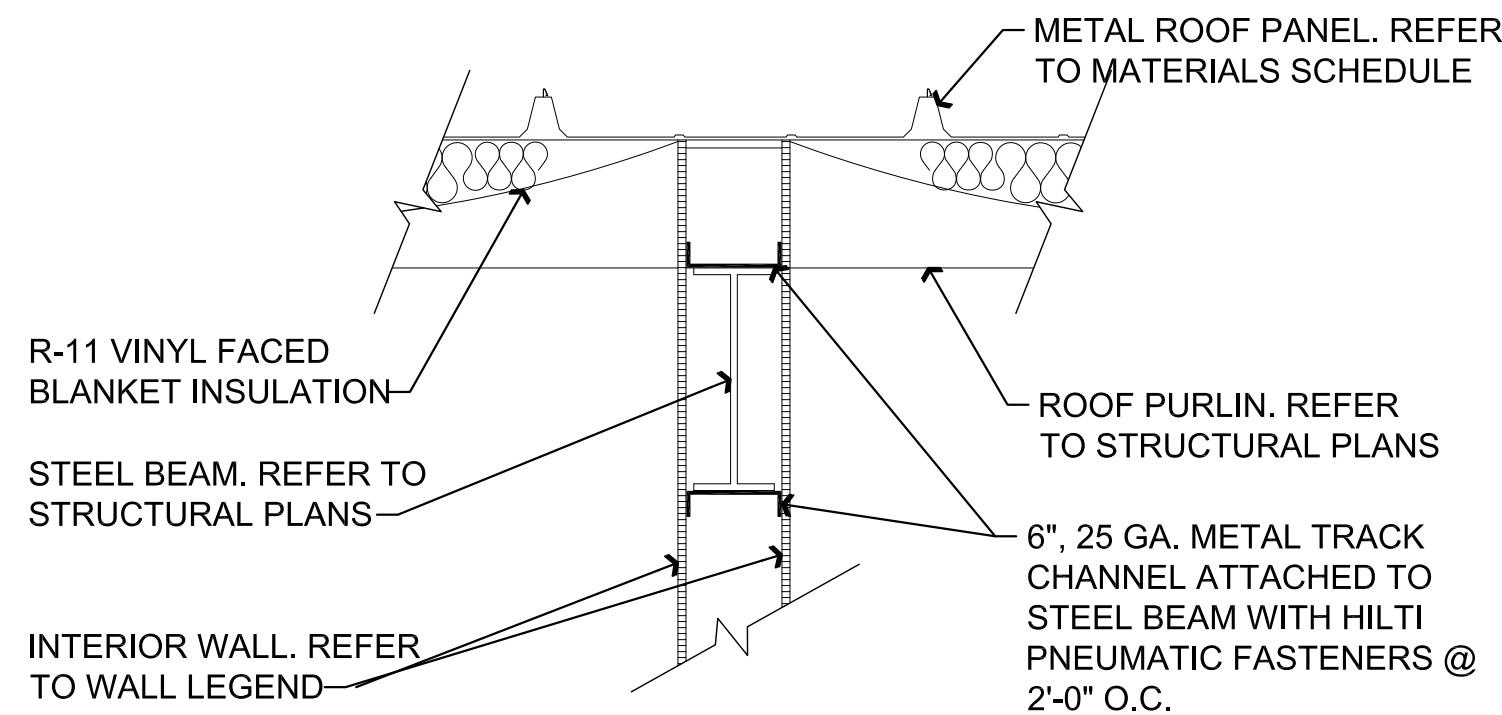


SECTION A-A

DETAIL "B"

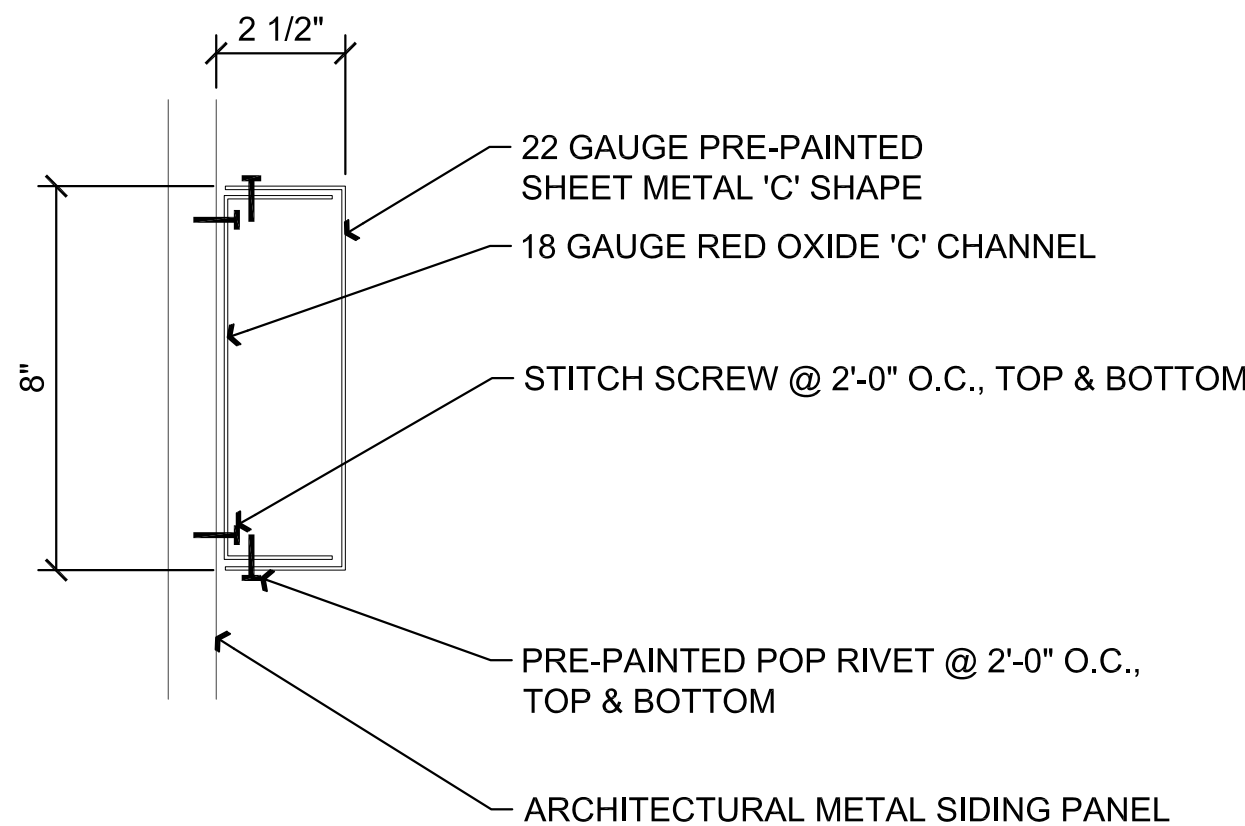
C3 Sanitation Dumpster Detail

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



D2 GPDW Partition at Beam

SCALE: 1" = 1'-0"



D1 Accent Band Detail

SCALE: 3" = 1'-0"

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.

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: DETAILS

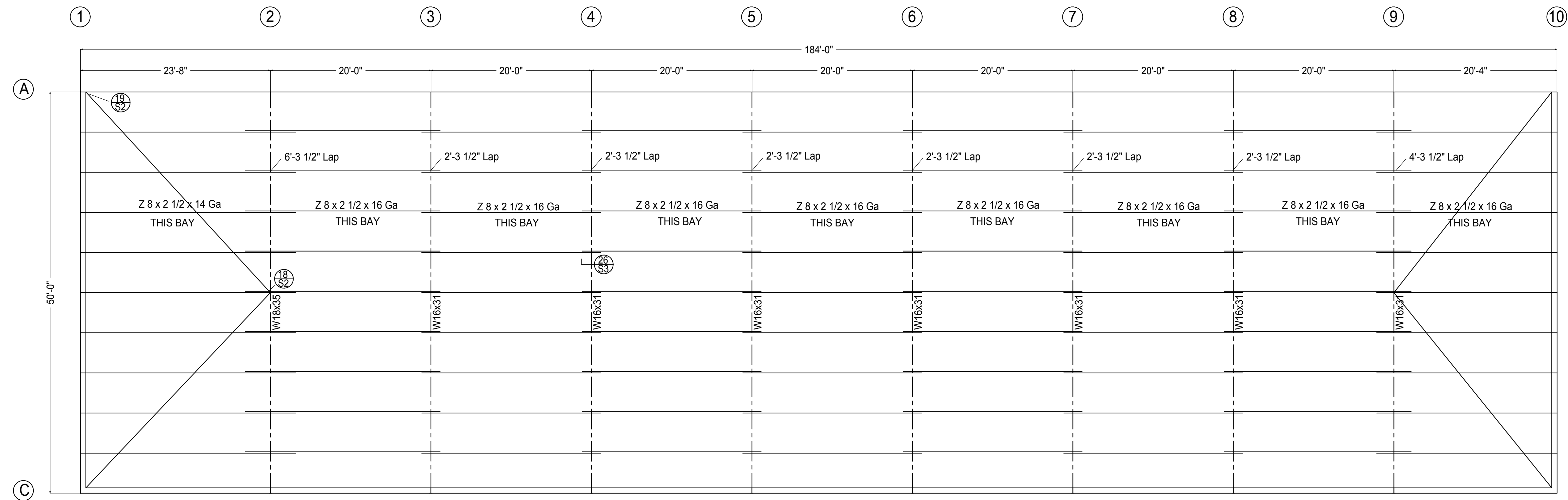
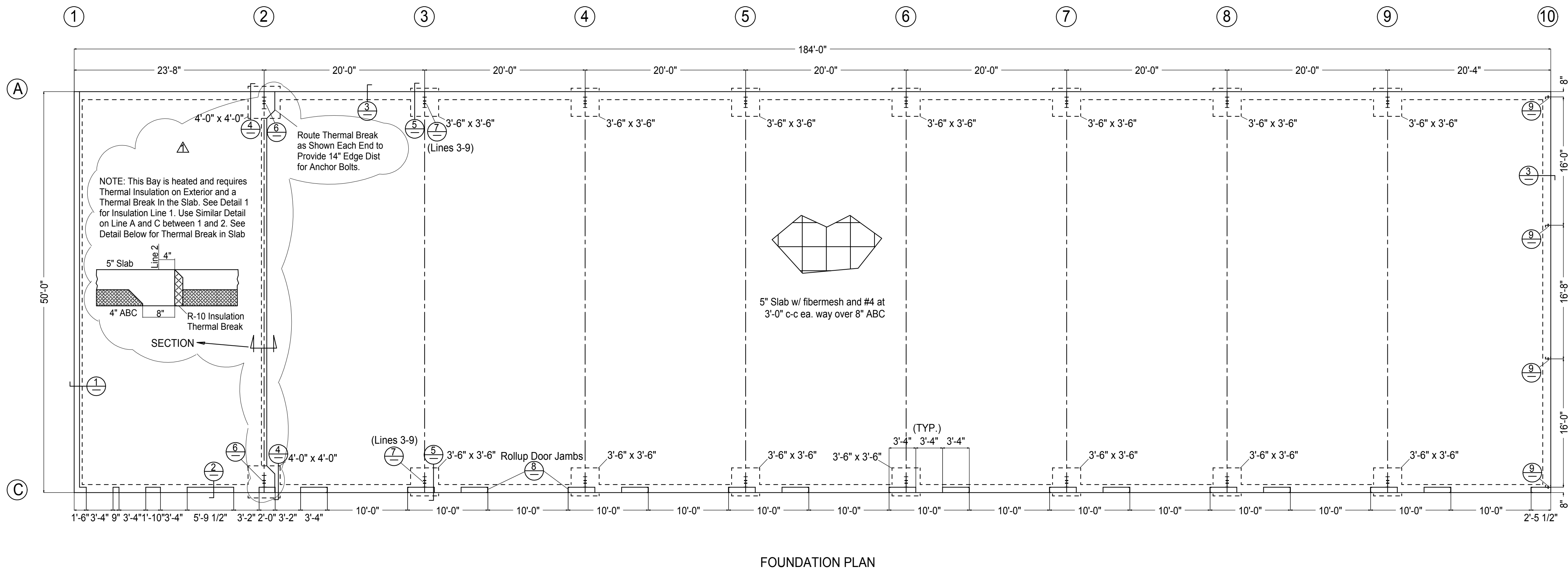
PROJECT:

Heatwole Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

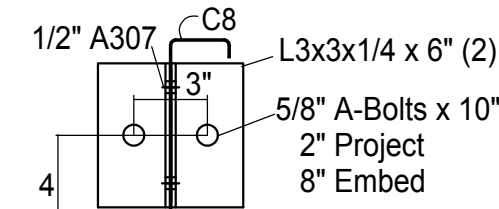
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CHECKED BY W.A.K.
DATE September 29, 2015
SCALE AS NOTED
JOB NO. 672
SHEET

A7.0

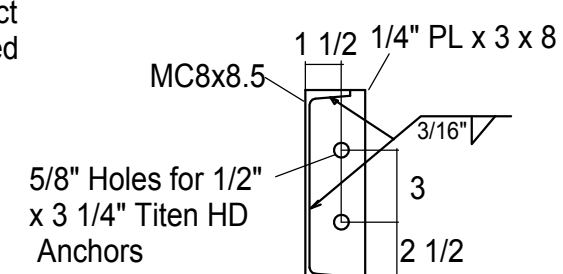
Spdtime,0mon 0D0" yyy - H/M(Mamjpm)



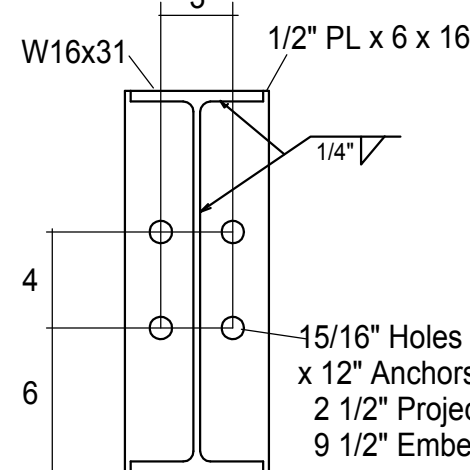
Sheet Roof with 24 Ga. "Ultra-Dek" 24" wide standing seam panels. Install per manufacturer's instructions. Lap purlins as shown on Roof Plan at each frame. Roof Purlins are as shown on Plan. Brace top flange with 1/8" x 2" bar and bottom flange with L1x1x1/8" at quarter points of each roof bay. Attach with 1" of 3/32" fillet each side of each brace to purlin flanges.



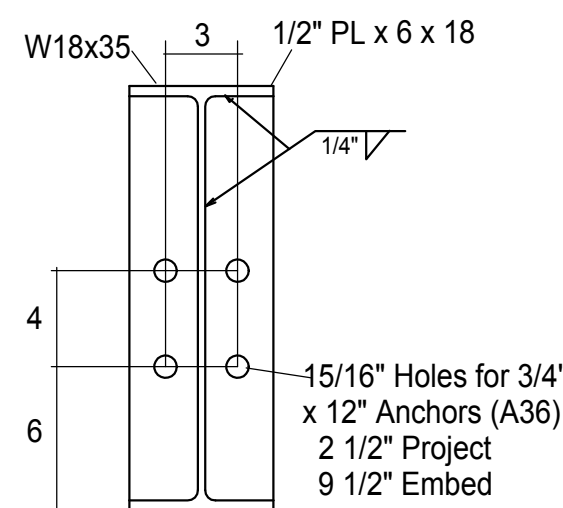
9 Cee Col Base



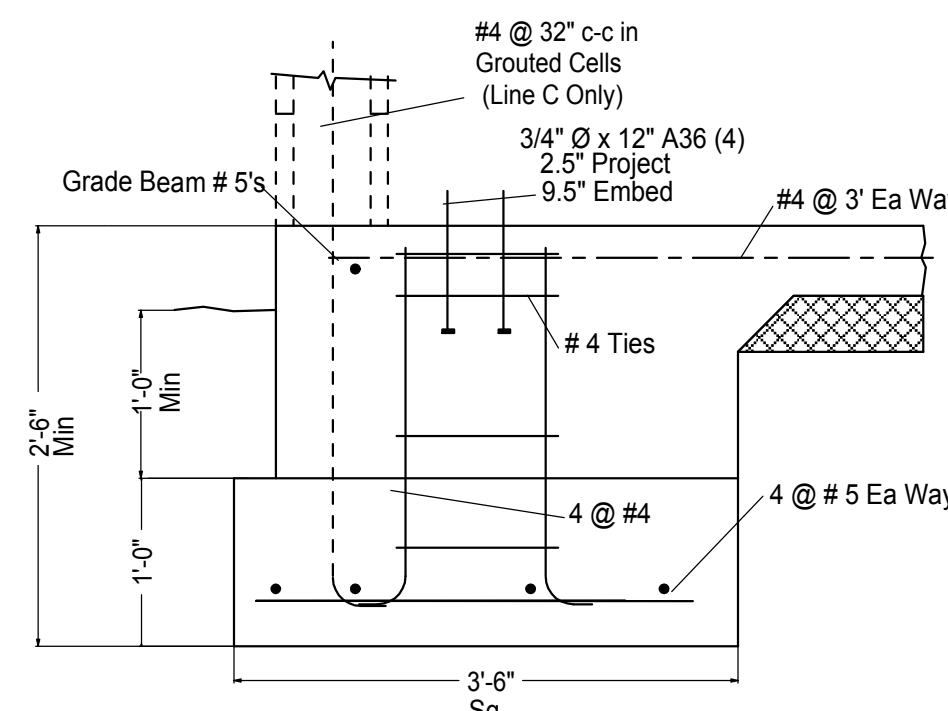
8 MC8x8.5 Jamb Col Base



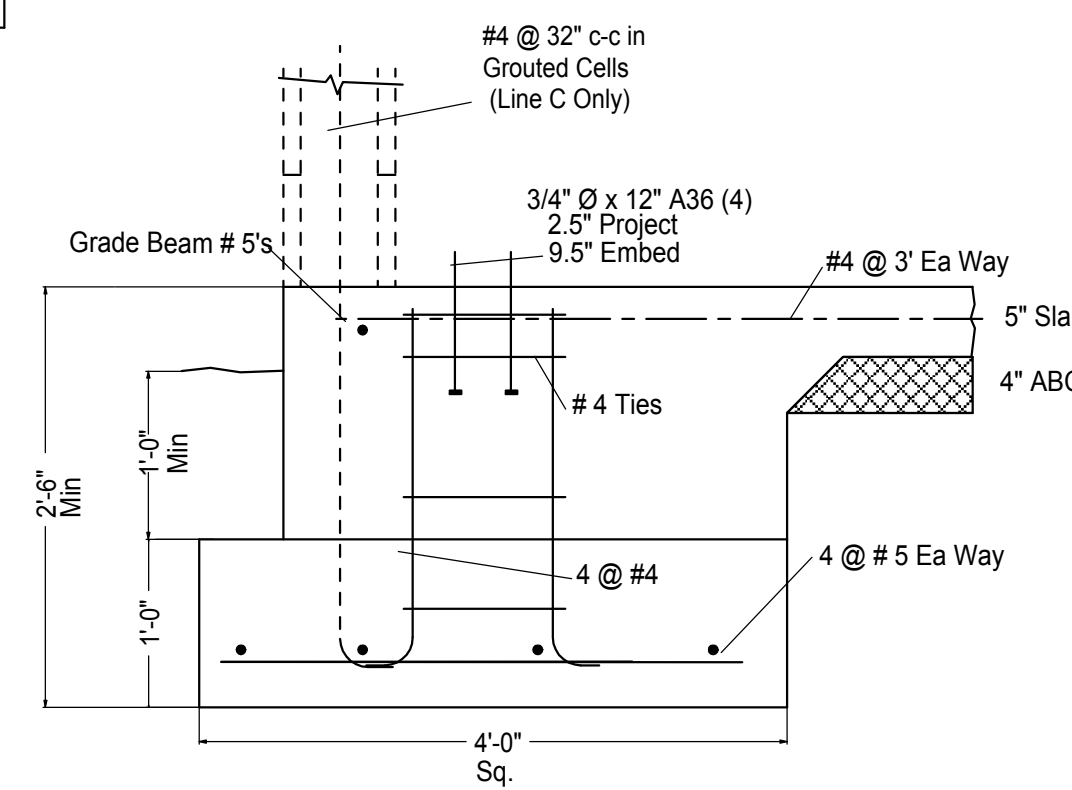
7 W16x31 Col Base



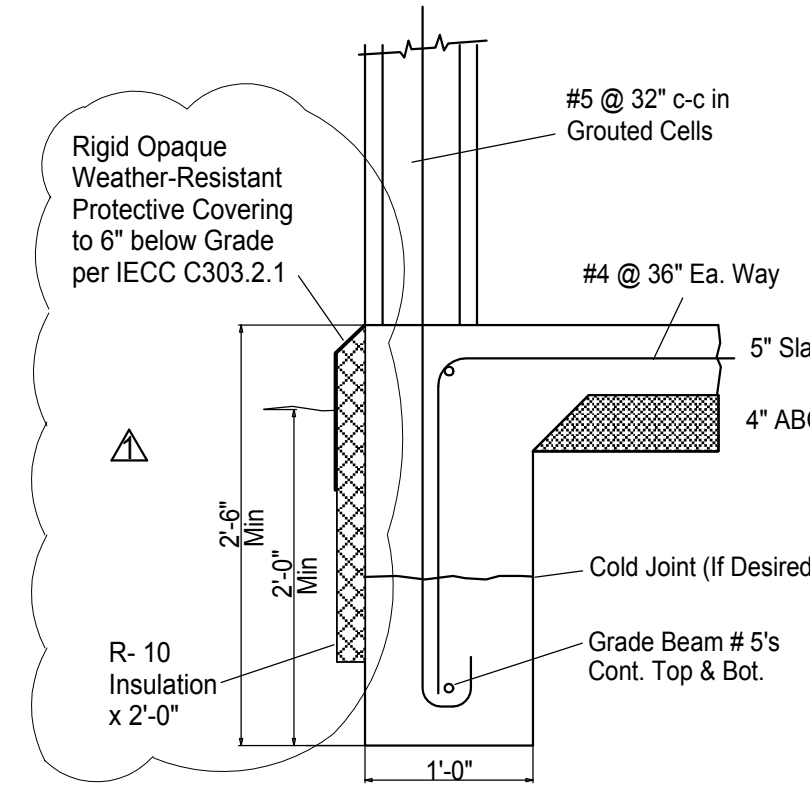
6 W18x35 Col Base



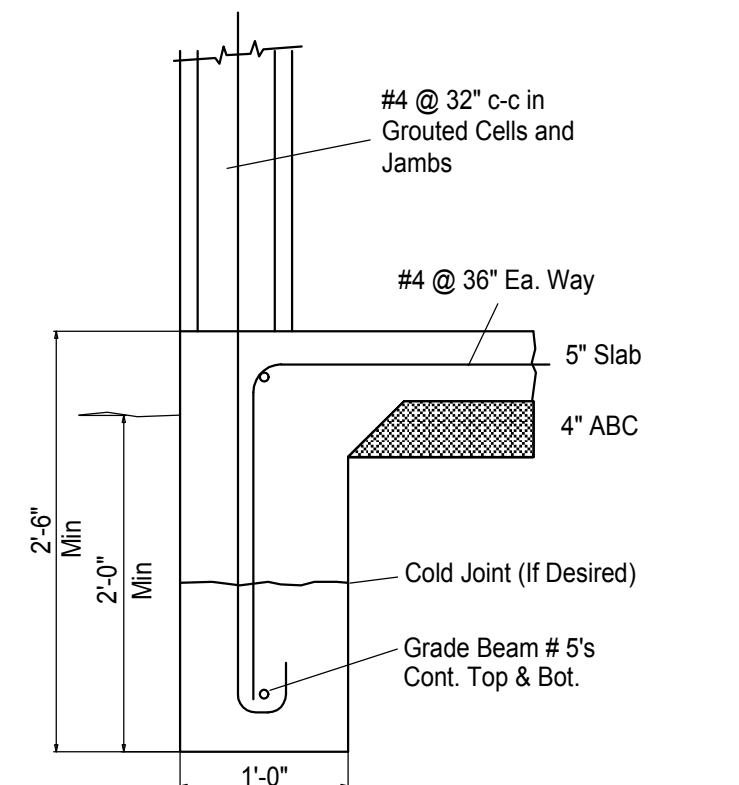
5 FRAME FOUNDATION LINE 3-9



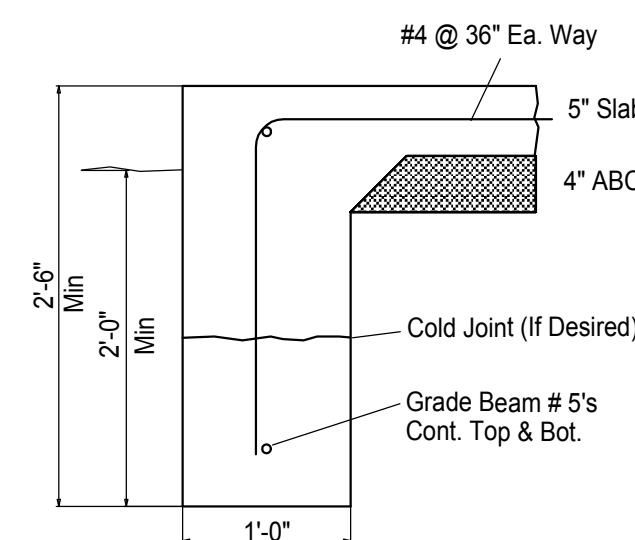
4 FRAME FOUNDATION LINE 2



1 GRADE BEAM LINE 1



2 GRADE BEAM LINE C

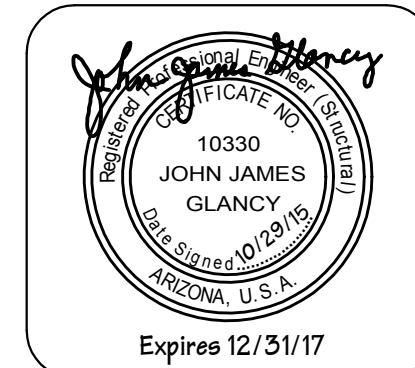


3 GRADE BEAM LINE A OR LINE 10

GENERAL NOTES:
Code - 2012 IBC Seismic Category C
Wind - 115 MPH (Exposure C)
Roof Deck - Fy = 50 ksi
Wall Panels - Fy = 60 ksi
Light Gage C & Z - Fy = 57 ksi Per LSGI Manual
Struct Steel - Fy = 36 ksi U.N.O. (A36)
Steel Beams - Fy = 50 ksi (A992-Gr 50)
Welds - 70 ksi Ult Strength
Reinforcing - Fy = 60 ksi (A615-Gr 60 - Gr 40 O.K. #3 & #4)
Concrete - F'c = 3000 psi Quality (2500 psi Design)
Masonry - F'm = 1500 psi
Soil - 2500 PSF per ETC Report #8915
Roof Live Load - 30 psf (Snow)
Roof Dead Load - 3 psf
Collateral Load - 2 psf Warehouse, 4 psf Office

REVISIONS	BY
Per Plan Check 10/29/15	JJG

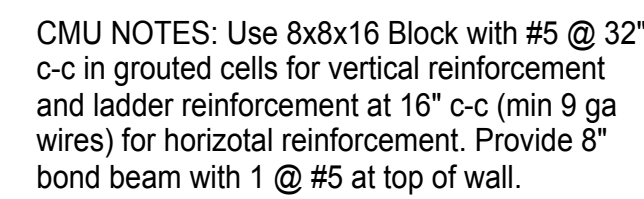
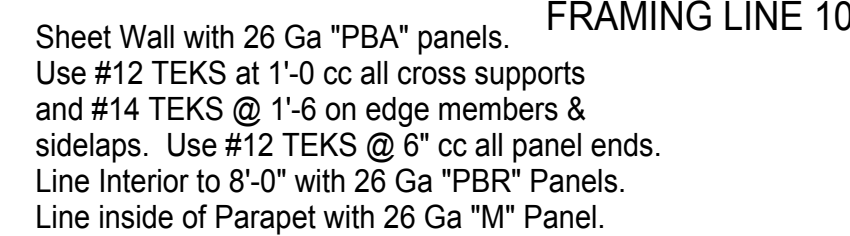
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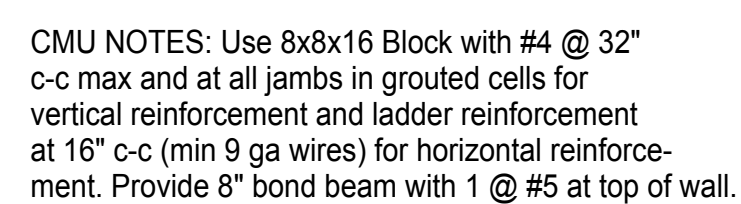
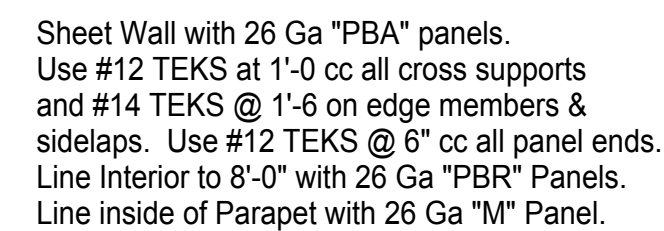
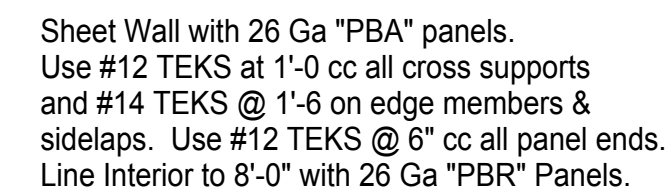
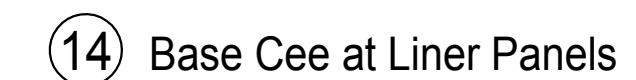
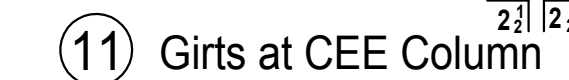
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ARCHITECTURE & PLANNING

DRAWING: Foundation and Roof Framing Plans
PROJECT: Heavole Commercial Building
6397 Lear Lane
Prescott, AZ 86301

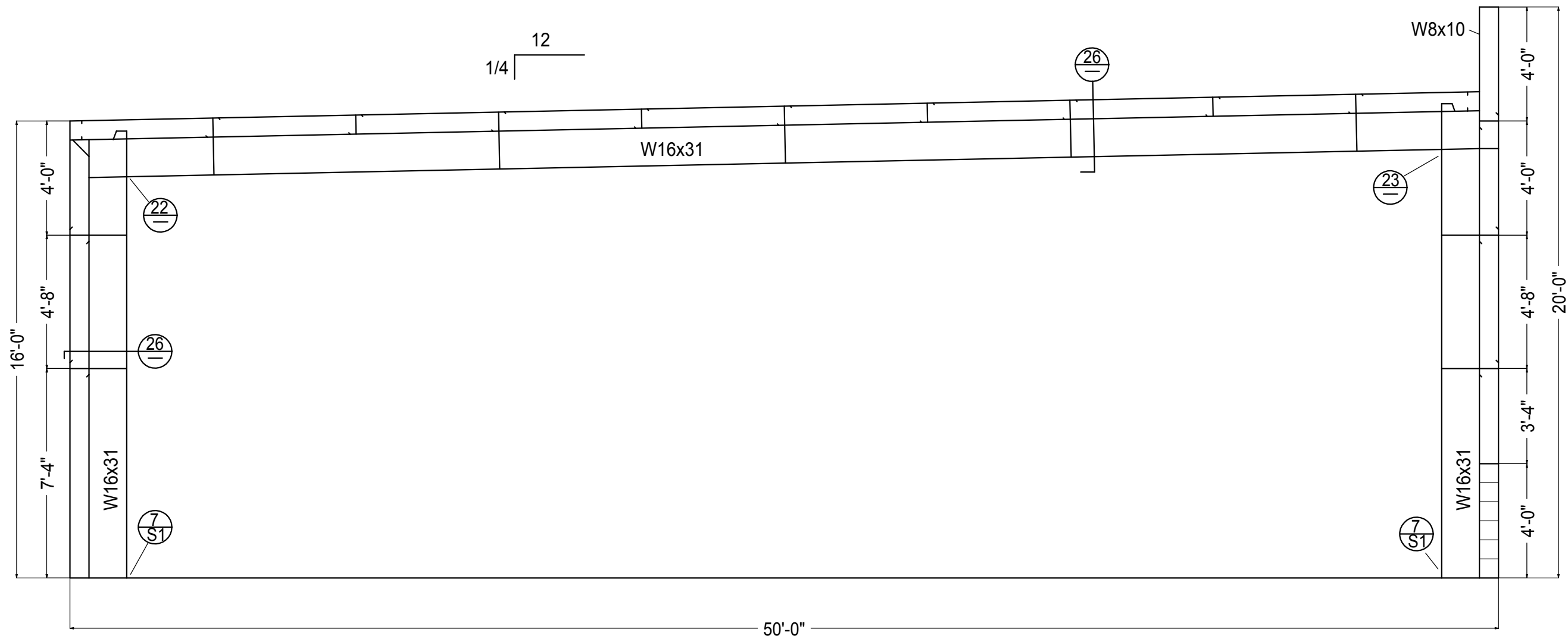
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CHECKED BY JJG
DATE 9/9/15
SCALE 1/8" = 1'-0"
JOB NO. 672
SHEET



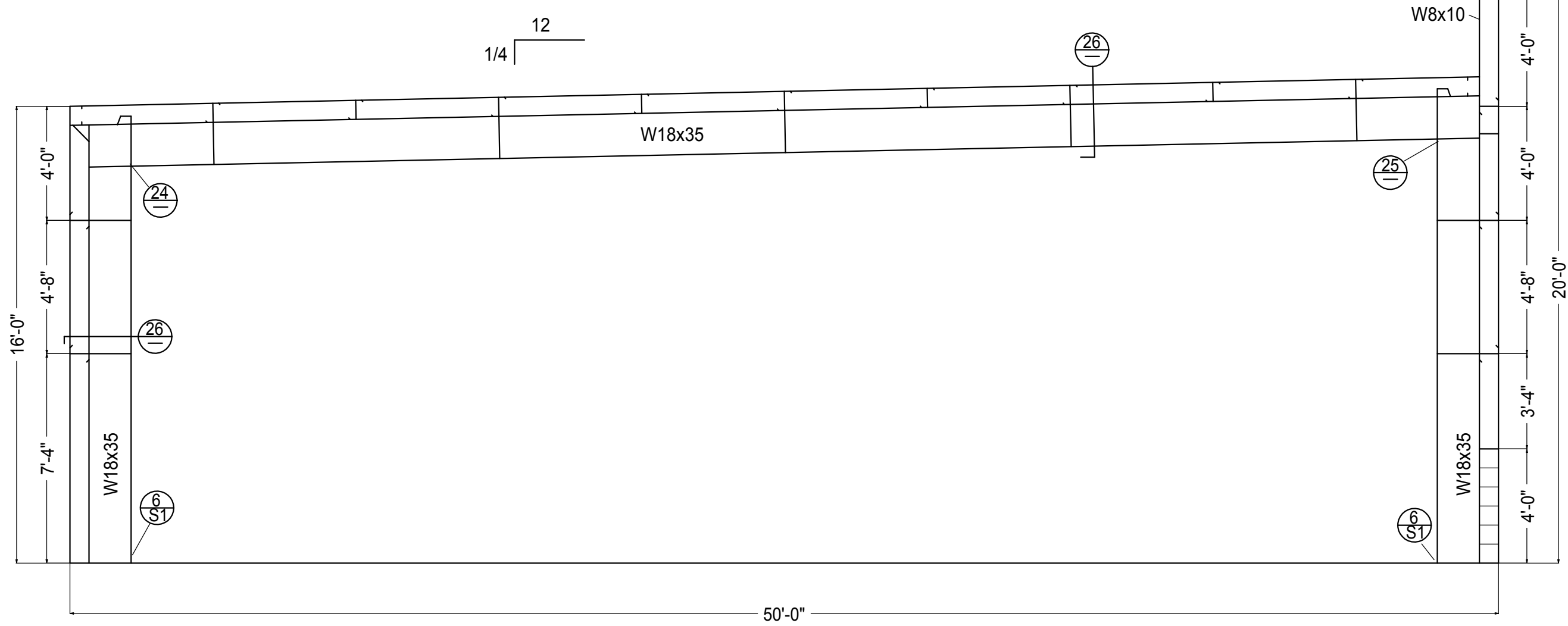
⑩ Girls at Jamb Column



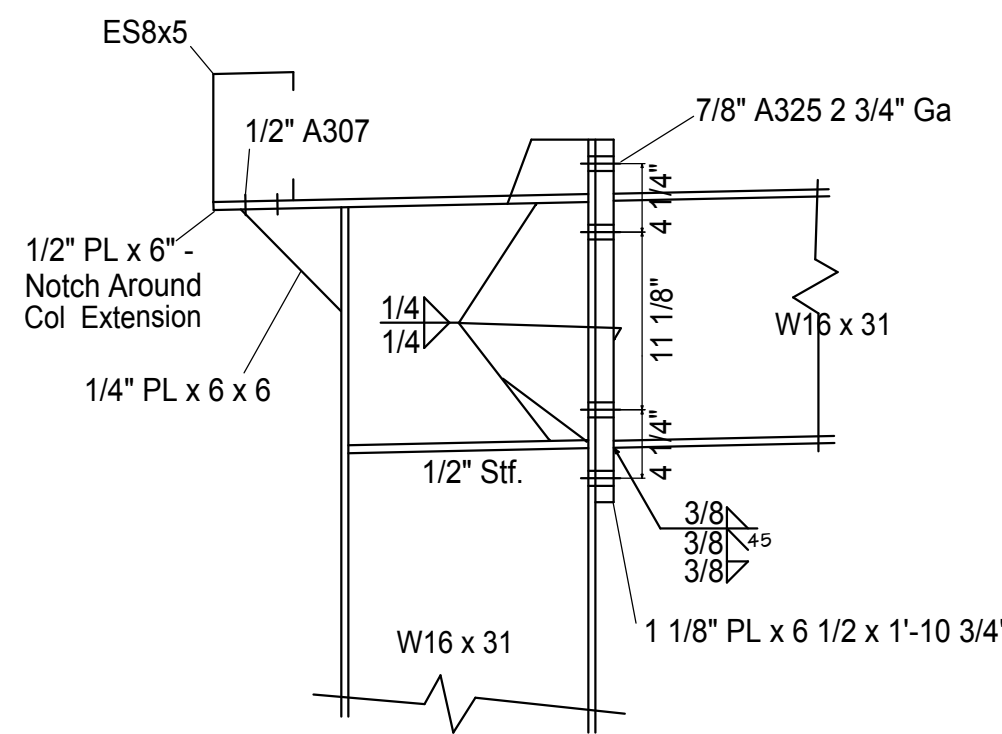
S - 2



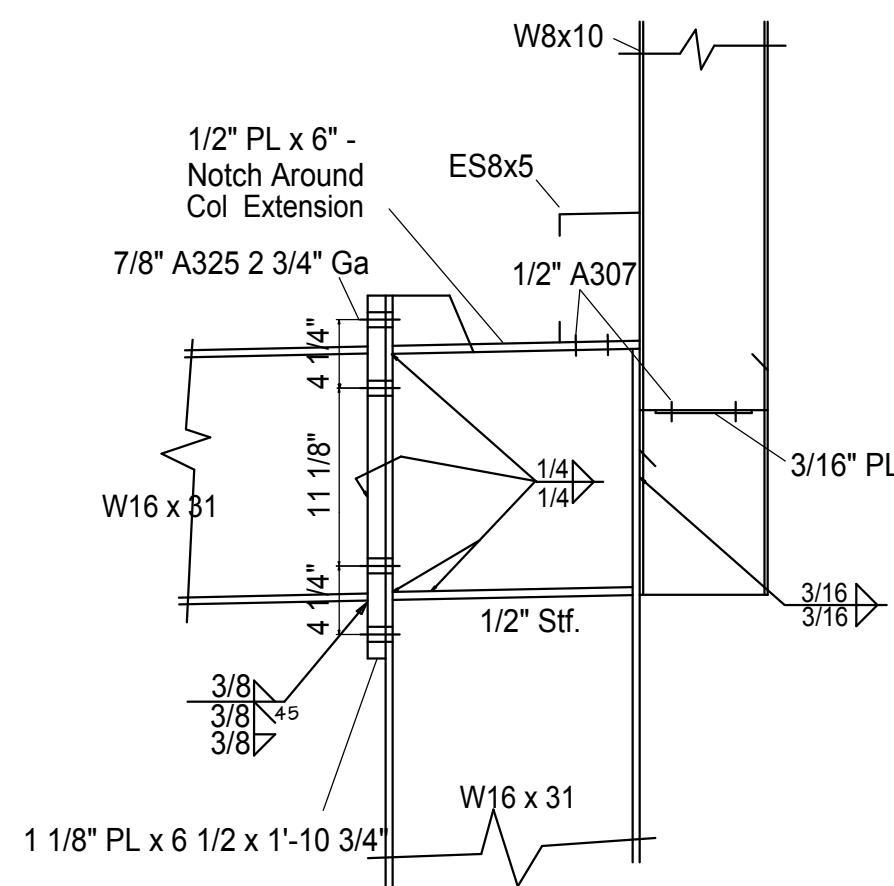
FRAMES LINE 3-9



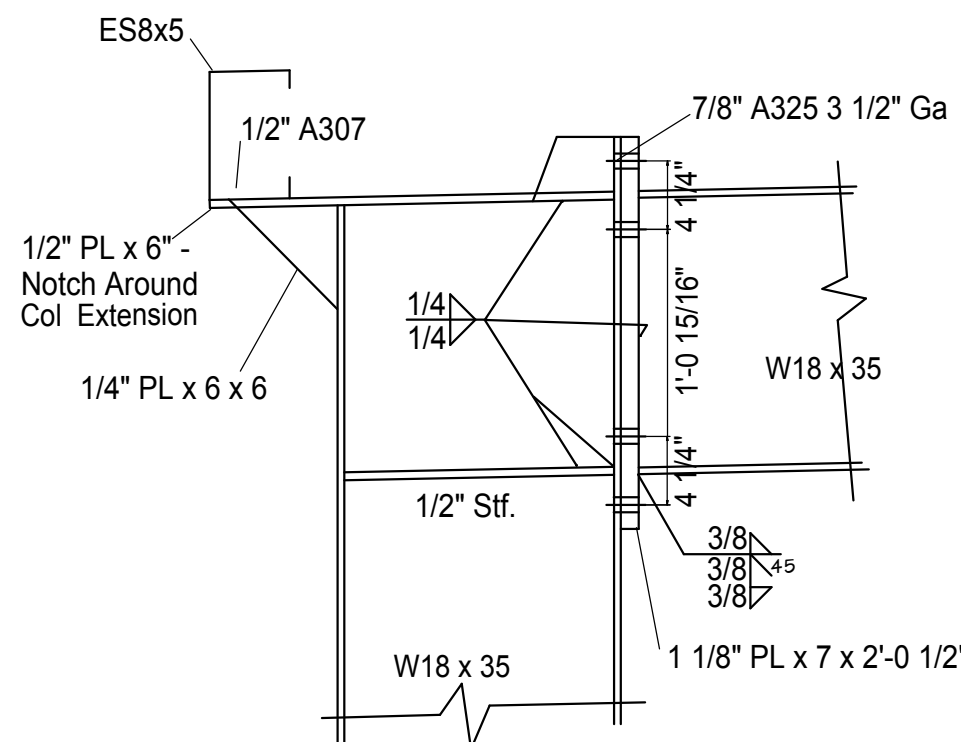
FRAME LINE 2



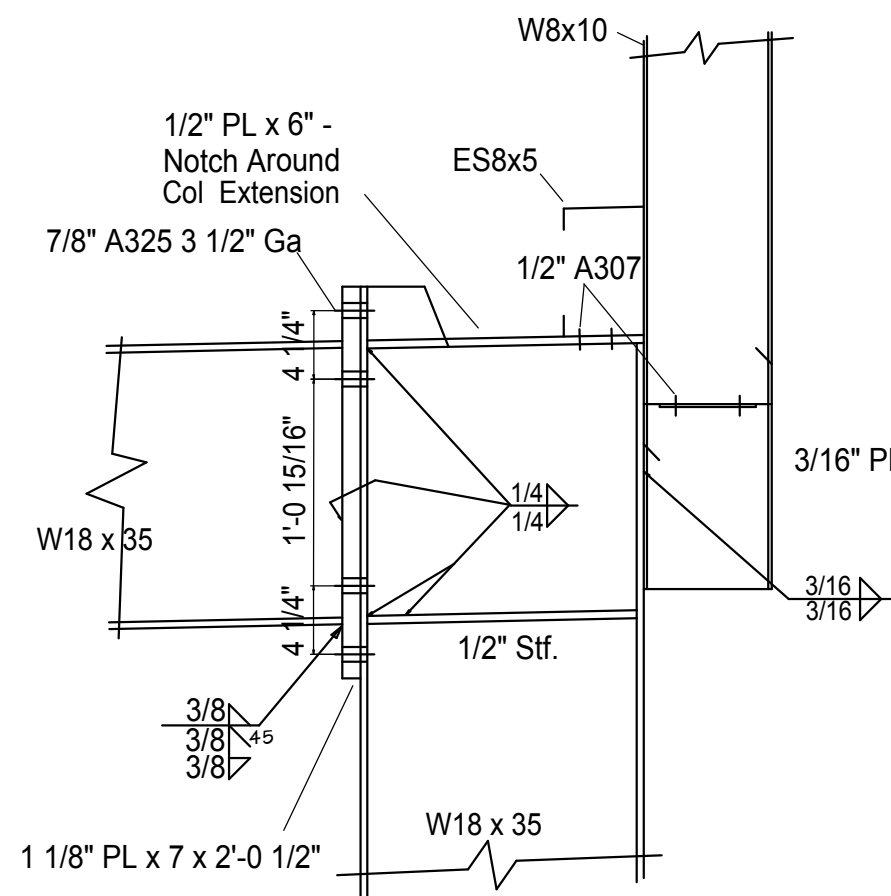
22 Frame Haunch Low Side L3-9



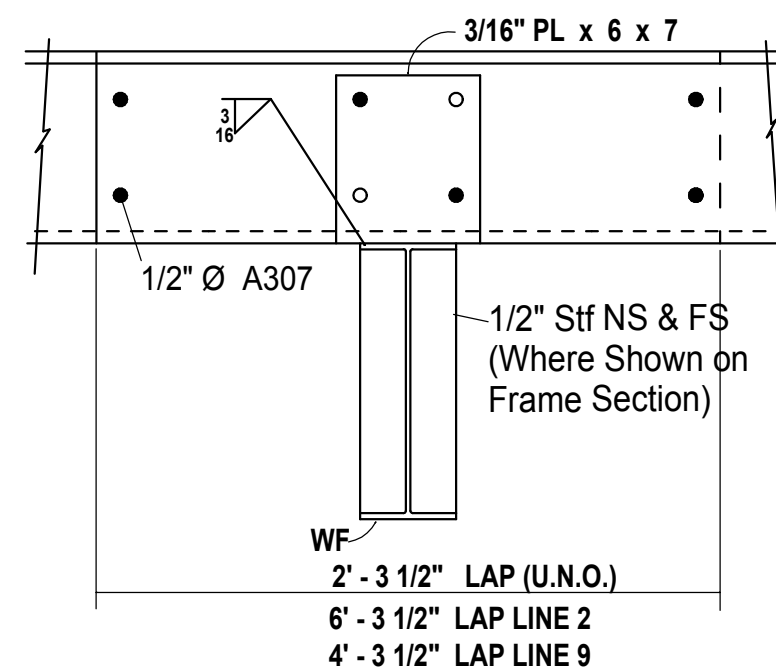
23 Frame Haunch High Side L3-9



24 Frame Haunch Low Side L2



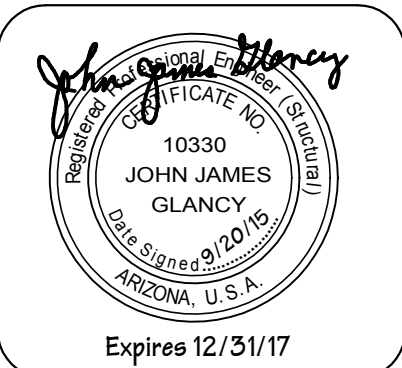
25 Frame Haunch High Side L2



26 Purlin or Girt to Frame

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ARCHITECTURE & PLANNING

Rigid Frame Sections

DRAWING:

Heavole Commercial Building
6327 Lear Lane
Prescott, AZ 86301

PROJECT:

DRAWN BY
JJG

CHECKED BY
JJG

DATE
9/9/15

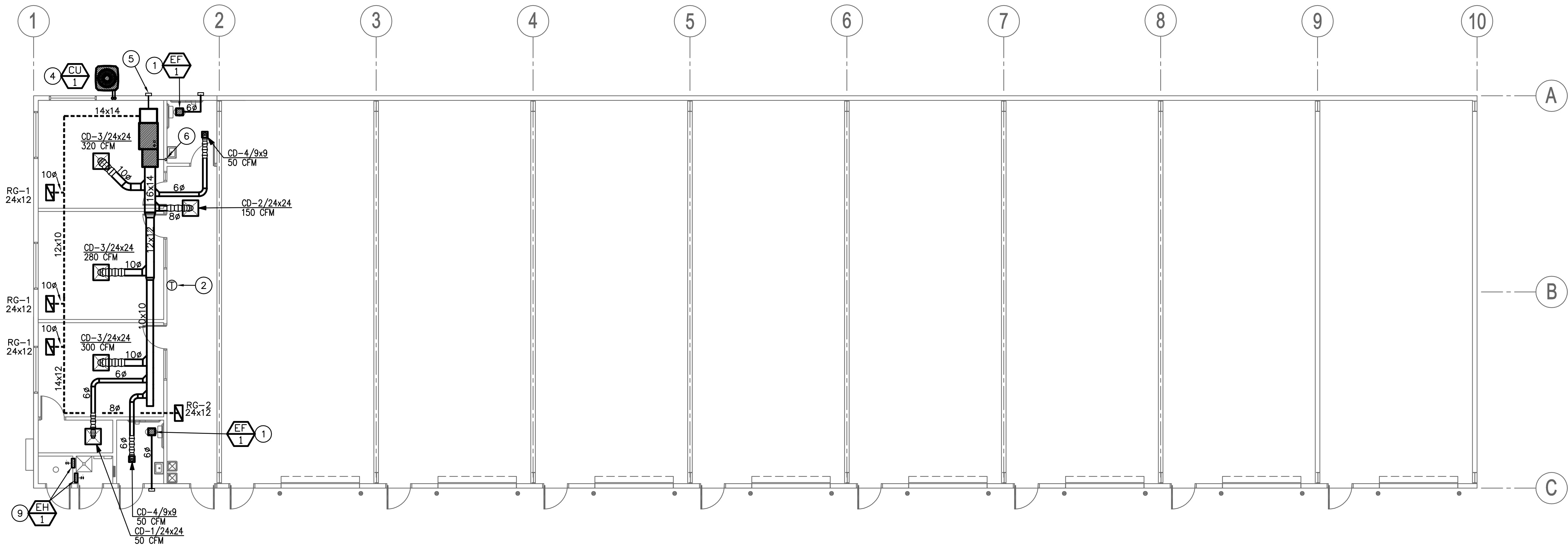
SCALE
1/4"=1'

JOB NO.
672

SHEET

S - 3

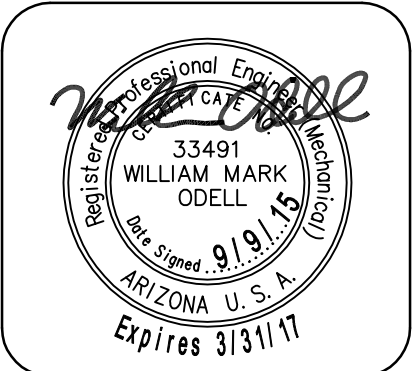
Sep 10, 2015 - 8:14pm



- KEYNOTES**
- 1 CEILING MOUNTED EXHAUST FAN WITH BACKDRAFT DAMPER. TRANSITION EXHAUST DUCT FROM UNIT DISCHARGE AND ROUTE TO MANUFACTURER'S WALL DISCHARGE CAP. MAINTAIN A MINIMUM 10' CLEARANCE FROM ALL OUTSIDE AIR INTAKES. FAN SHALL OPERATE VIA WALL SWITCH.
 - 2 PROVIDE HEATING/COOLING PROGRAMMABLE THERMOSTAT ON WALL AT 48" ABOVE FINISHED FLOOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER.
 - 3 NEW HORIZONTAL NATURAL GAS FURNACE ABOVE CEILING. MAINTAIN ALL NECESSARY CLEARANCES AND MAINTENANCE ACCESS REQUIREMENTS. ROUTE AND CONNECT REFRIGERANT LINES FROM CONDENSING UNIT.
 - 4 NEW CONDENSING UNIT ON 4" CONCRETE PAD. PROVIDE CLEARANCES AS PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
 - 5 EXTEND 6" OUTSIDE AIR DUCT FROM UNIT RETURN PLENUM TO WALL INTAKE AND BALANCE OUTSIDE AIR AS SHOWN ON FURNACE SCHEDULE. INTAKE HOOD TO BE 8"Ø, GREENHECK WC-8. INTAKE SHALL BE A MINIMUM OF 10' FROM EXHAUST DISCHARGE.
 - 6 EXTEND NEW 3/4" TYPE 'M' COPPER CONDENSATE DRAIN PIPING FROM UNIT CONNECTION AND ROUTE TO JANITOR SINK. SLOPE ALL DRAIN PIPING AT A MINIMUM 1/8" PER FOOT TOWARD DISCHARGE LOCATION.
 - 7 SLEEVE REFRIGERANT LINES THROUGH INTO WALL AND ROUTE UP INTO CEILING SPACE AND TO FAN-COIL UNIT. SIZE AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
 - 8 PVC VENT AND INTAKE PIPING UP TO MANUFACTURER'S ROOF OR WALL TERMINATION. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - 9 ELECTRIC WALL HEATER, WITH INTEGRAL THERMOSTAT.

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: MECHANICAL FLOOR PLAN
PROJECT: Heatwave Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

DRAWN BY
CHECKED BY
DATE July 6, 2015
SCALE AS NOTED
JOB NO. 672
SHEET

M1

M1 Mechanical Floor Plan
Scale: 1/8"=1'-0"
North

OSE
Design Group, LLC
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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 FITURES. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTINGS OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED OR QUESTIONS OF INTENT IN THE CONTRACT DOCUMENTS. 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 NEED 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. 2012 INTERNATIONAL MECHANICAL CODE WITH LOCAL AMENDMENTS.

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, WITH 1", 1 1/2 LB. DENSITY DUCT LINER. 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. DUCT INSULATION: ACCEPTABLE MANUFACTURERS: CSG, JOHNS-MANSVILLE.

FLEXIBLE DUCT

FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTION TO AIR DISTRIBUTION DEVICES, BUT SHALL NOT EXCEED 6 FEET IN LENGTH. FLEXIBLE DUCT SHALL HAVE A MINIMUM R-5 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.

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.

WRAPPED DUCTWORK – FIBER GLASS BLANKET WITH FRK VAPOR RETARDING FACING. 1 1/2 PCF, 2" THICK, WITH A MINIMUM INSTALLED "R-VALUE" OF 6.0. (ASSUMES 25% COMPRESSION)

ACCEPTABLE MANUFACTURERS

THE FOLLOWING IS A LIST OF MANUFACTURERS WHOSE EQUIPMENT AND HVAC MATERIALS ARE ACCEPTABLE, SUBJECT TO CONFORMANCE WITH CONTRACT DOCUMENTS. VERIFY THAT THE EQUIPMENT WILL MEET ALL CAPACITIES SPACE ALLOCATIONS, AND THAT THE WEIGHTS WILL NOT EXCEED STRUCTURAL DESIGN LOADS.

FURNACE AND CONDENSERS: CARRIER, TRANE, YORK.
UNIT HEATERS: STERLING, MODINE, REZNOR.
GRILLES, REGISTERS, DIFFUSERS: KRUEGER, METAL-AIRE, TITUS,
FLEXIBLE DUCT: GENFLEX, THERMAFLEX, OR EQUIVALENT.
EXHAUST FANS: GREENHECK, LOREN COOK AND PENN VENTILATOR.
DUCT AND PIPE INSULATION: KNAUF, OWENS-CORNING, MANVILLE, CERTAIN-TEED, PPG.

EXHAUST FANS

SIZE, CAPACITIES, AND TYPE AS INDICATED ON THE DRAWINGS. FURNISH COMPLETE WITH FACTORY CURBS/ROOF CAPS, BAROMETRIC DAMPER, SPEED CONTROL, DISCONNECT, STARTER (IF REQUIRED), AND BIRDSCREEN. FURNISH ROOF MOUNTED FANS WITH INSULATED ROOF CURB; PROVIDE CEILING MOUNTED FANS WITH WALL/ROOF CAP.

AIR SYSTEM BALANCING

AIR SYSTEMS AND AIR DISTRIBUTION TEST AND BALANCE: THE CONTRACTOR SHALL INCLUDE IN HIS BID THE SERVICES OF AN INDEPENDENT AIR BALANCE AND TESTING AGENCY. THE AGENCY SHALL BE APPROVED BY THE OWNER AND ARCHITECT. THE TESTING AGENCY SHALL BE ONE WHICH SPECIALIZES IN THE BALANCING AND TESTING OF HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS TO BALANCE, ADJUST AND TEST AIR MOVING EQUIPMENT AND AIR DISTRIBUTING OR EXHAUSTING SYSTEMS AS HEREIN SPECIFIED. ALL WORK SHALL BE DONE UNDER DIRECT SUPERVISION OF A REGISTERED PROFESSIONAL HEATING AND VENTILATING ENGINEER OR AABC OR NEBB CERTIFIED COMPANY. PROVIDE CERTIFIED REPORT.

FURNACE SCHEDULE (FULLY MODULATING)

MARK	NOMINAL TONS	MFG'R	MODEL #	ORIENTATION	CFM	OSA	E.S.P. ("W.G.)	HEATING CAPACITY		VENT SIZE	VENTING TYPE	FUEL	A.F.U.E.	ELECTRICAL DATA		FILTER TYPE	WEIGHT	NOTES
								INPUT	OUTPUT					H.P.	V/Ø/Hz			
F-1	3	GOODMAN	GKS907	HORIZONTAL	1200	85	0.60	69,000	64,400	2"	2-PIPE SEALED	N. GAS	92.1%	1/3	120/1/60	DISPOSABLE	153	①②③④⑤
① INSTALL WITH CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.											④ HORIZONTAL UNIT.							
② SIZE AND INSTALL 1 OR 2 PIPE VENT PIPING AS INDICATED IN SCHEDULE PER MANUFACTURER'S INSTRUCTIONS FOR ACTUAL INSTALLED LENGTHS. PROVIDE SINGLE OR CONCENTRIC ROOF TERMINATION AS REQUIRED.											⑤ UNIT SHALL BE VARIABLE SPEED. CFM SHOWN IS MAXIMUM.							
③ PROVIDE LEFT OR RIGHT CONNECTIONS AS REQUIRED FOR ACCESS IN MECHANICAL ROOMS.																		

CONDENSING UNIT SCHEDULE

MARK	NOMINAL TONS	MFG'R	MODEL #	COOLING CAPACITY		DESIGN COND. DBWB	INDOOR COIL MODEL #	COIL ENT. AIR DBWB	ELECTRICAL DATA			MINIMUM SEER	REFRIGERANT	NOTES
				TOTAL	SENS.				MCA	FUSE	V / Ø			
CU-1	3	GOODMAN	GSX16036	28.4	24.4	95/63	SELECTED BY MFG.	75°/63°	18.7	30	208/230 1Ø	16	R-410A	①②③④⑤⑥⑦
① INSTALL UNIT PER MANUFACTURER'S WRITTEN DIRECTIONS. SLEEVE PIPING PENETRATIONS THROUGH EXTERIOR WALL, SEAL WATERTIGHT AND PROVIDE ESCUTCHEONS.											⑤ RUN ALL REFRIGERANT PIPING FULL SIZE PER MFG'RS. INSTRUCTIONS.			
② UNIT SHALL BE PROVIDED WITH TRANE XL800 PROGRAMMABLE THERMOSTAT.											⑥ PROVIDE INDOOR FAN COIL UNIT COMPLETE WITH MOTOR STARTER.			
③ PROVIDE 10-YEAR COMPRESSOR WARRANTY AND 5-YEAR FOR OTHER COMPONENTS.											⑦ PROVIDE LOW AMBIENT CONTROL KIT FOR OPERATION DOWN TO 30°F.			
④ PROVIDE CONTROL TRANSFORMER IN UNIT CONTROL PANEL. PROVIDE UNIT COMPLETE WITH WEATHERPROOF CONTROL PANEL WITH ALL NECESSARY OVERLOADS AND CONTROL COMPONENTS.														

GRILLES/REGISTERS/DIFFUSERS SCHEDULE

MARK	DESCRIPTION	MODULE SIZE	TYPE	OBD	FRAME	MATERIAL	FINISH	MANUF.	MODEL	REMARKS
CD-1	SUPPLY DIFFUSER	24x24	ROUND	NO	SURFACE	STEEL	WHITE	TITUS	TMS	6Ø NECK
CD-2	SUPPLY DIFFUSER	24x24	ROUND	NO	SURFACE	STEEL	WHITE	TITUS	TMS	8Ø NECK
CD-3	SUPPLY DIFFUSER	24x24	ROUND	NO	SURFACE	STEEL	WHITE	TITUS	TMS	10Ø NECK
CD-4	SUPPLY DIFFUSER	9" x 9"	SQUARE LOUVERED	NO	SURFACE	STEEL	WHITE	TITUS	TDC	6Ø NECK
RG-1	RETURN GRILLE	24" x 12"	SINGLE DFL	NO	SURFACE	STEEL	WHITE	TITUS	350RL	10Ø NECK
RG-2	RETURN GRILLE	24" x 12"	SINGLE DFL	NO	SURFACE	STEEL	WHITE	TITUS	350RL	8Ø NECK

EXHAUST FAN SCHEDULE

MARK	SERVES	MANUF.	MODEL	CFM	E.S.P. (in. wg)	MOTOR		DRIVE	SONES	WEIGHT LBS	REMARKS
						WATTS	V/PH				
1	TOILETS	GREENHECK	SP-B90	75	.25	54 WATTS	120/1	DIRECT	2.0	10	①②
① UNIT TO OPERATE VIA WALL SWITCH.② PROVIDE WITH HOODED WALL DISCHARE CAP.											

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	①②
① PROVIDE REMOTE 24V SINGLE STAGE THERMOSTAT.② INTEGRAL THERMOSTAT.									

DUCT CONSTRUCTION NOTES

1 – ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "ASHRAE GUIDE" AND "SMACNA STANDARDS" AND IN CONFORMANCE WITH REQUIREMENTS OF LOCAL BUILDING, MECHANICAL AND ENERGY CONSERVATION CODES. WHERE MORE THAN ONE REGULATION OR CODE APPLIES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

2 – FLEXIBLE DUCTWORK SHALL COMPLY WITH THE CLASS I REQUIREMENTS OF THE NFPA BULLETIN NO. 90A AND SHALL BE INSULATED WITH 1" FIBERGLASS, SUPPORTED BY HELICALLY WOUND STEEL WIRE WITH REINFORCED METALIZED OUTER JACKET RATED FOR USE IN PLENUMS. ATTACHMENT SHALL BE WITH WORM DRIVE CLAMPS. LENGTH SHALL NOT EXCEED 6'-0"

3 – PROVIDE MANUAL BALANCING DAMPER AT EACH BRANCH DUCT TAKE OFF.

4 – ALL DUCTWORK JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTION ON DUCTWORK SHALL BE LISTED AND LABELED BY UL 181A OR 181B TAPES AND MASTICS.

5 – PROVIDE RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES AND EXTRACTORS WHERE APPLICABLE.

6 – TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.

7 – TAKE-OFF FITTINGS SHALL BE CONICAL OR BELL MOUTH TYPE WITH BALANCING DAMPER.

8 – BRANCH DUCT SERVING DIFFUSERS SHALL BE SAME SIZE AS NECK DIAMETER.

9 – ALL DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS. IF DUCT LINER IS USED FOR INSULATION, CONTRACTOR SHALL INCREASE DUCT SIZE ACCORDINGLY.

10 – HANGERS FOR SHEET METAL DUCTWORK SHALL BE INSTALLED AS REQUIRED BY 2012 IMC.

COORDINATION NOTES

1 – COORDINATE OPENING'S FOR GRILLES, REGISTERS, DIFFUSERS AND DUCTWORK WITH FRAMING CONTRACTOR PRIOR TO ROUGH-IN.

2 – COORDINATE EXACT LOCATION OF ALL GRILLES, REGISTERS AND DIFFUSERS WITH ARCHITECTURAL PLANS.

3 – LIGHTING & SPRINKLER HEADS TAKE PRECEDENCE OVER DIFFUSER LOCATION. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO DIFFUSERS TO AVOID ANY CONFLICT WITH LIGHTING LAYOUT & SPRINKLER HEADS.

4 – CONTRACTOR TO COORDINATE ALL FINAL THERMOSTAT LOCATIONS WITH OWNER & ARCHITECT PRIOR TO MOUNTING.

5 – ALL THERMOSTATS ARE TO BE MOUNTED AT A HEIGHT OF 48" ABOVE THE FLOOR LEVEL FOR DISABLED ACCESS.



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REVISIONS	BY

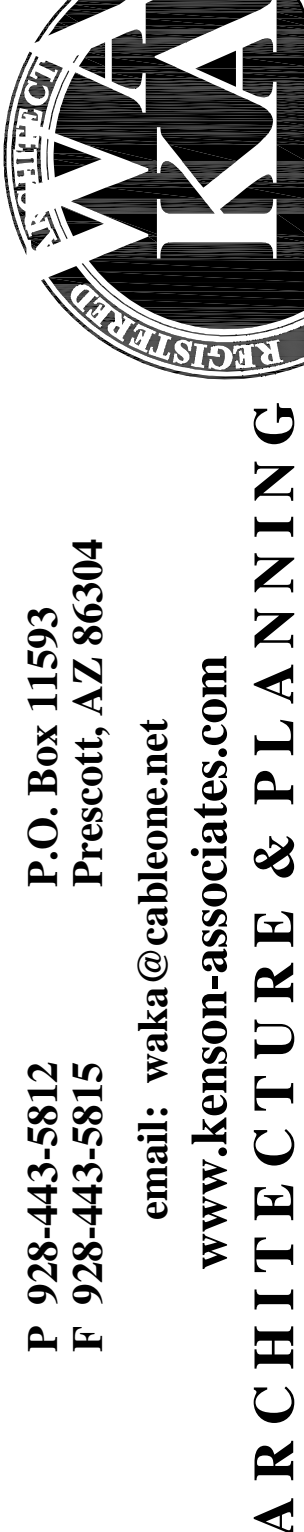
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DRAWING: MECHANICAL SCHEDULES AND SPECS

PROJECT: Heatwave Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

DRAWN BY
CHECKED BY
DATE July 6, 2015
SCALE AS NOTED
JOB NO. 672
SHEET

M2

ASHRAE 62.1 OUTSIDE AIR CALCULATION

Outside Air for Unit F-1

Space	Area	Occ Density	Rp	Pz	Ra	Az	Vbz
Storage	100	0	0	0	0.12	100	12.0
Office	676	5	5	3.38	0.06	676	57.5
Corridors	258	0	0	0	0.06	258	15.5
Balance F-1 to 85 CFM			Total Net OSA Required				85

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.

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

where

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

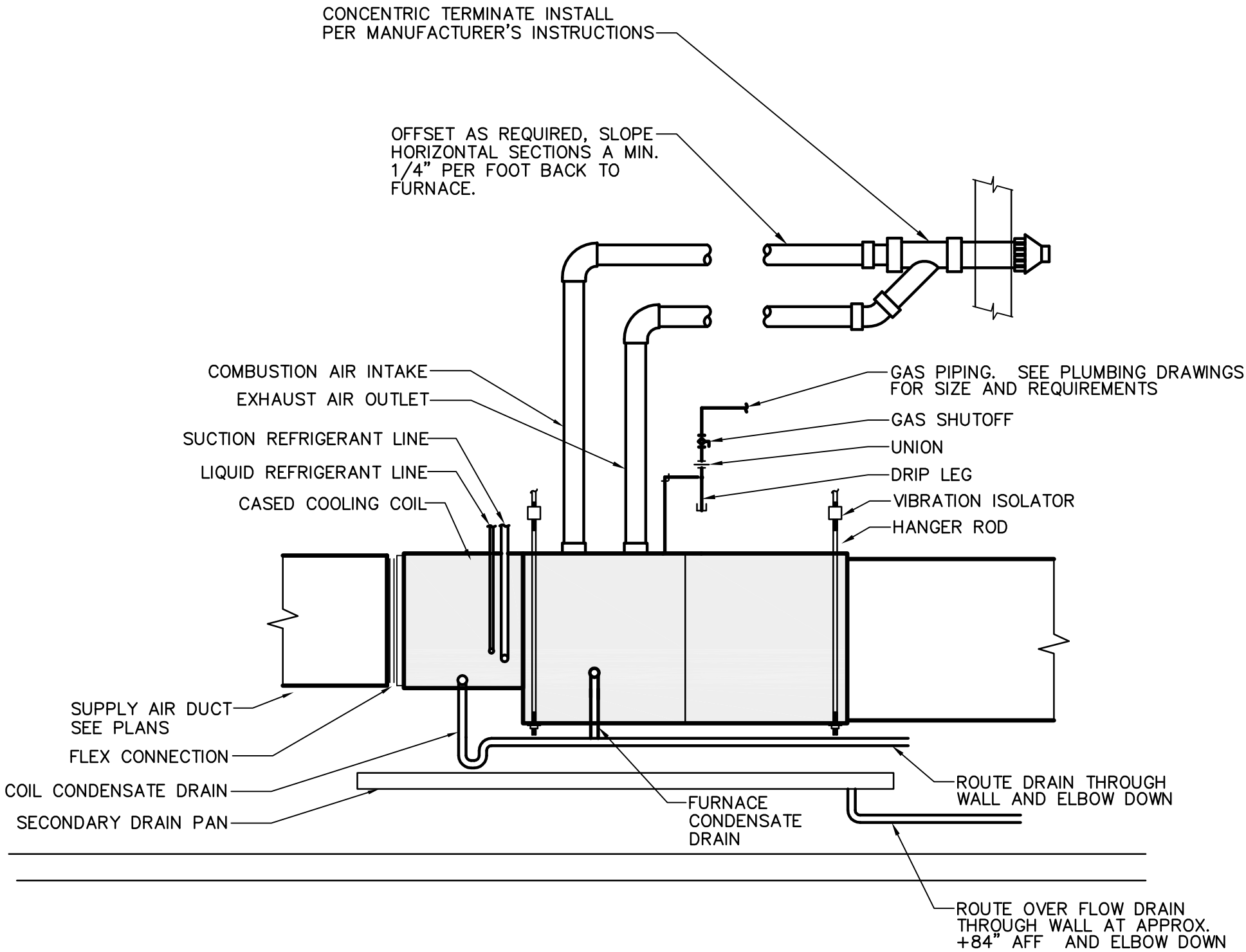
P_z = zone population: the largest number of people expected to occupy the zone during typical usage. If the number of people expected to occupy the zone fluctuates, P_z may be estimated based on averaging approaches described in Section 6.2.6.2

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

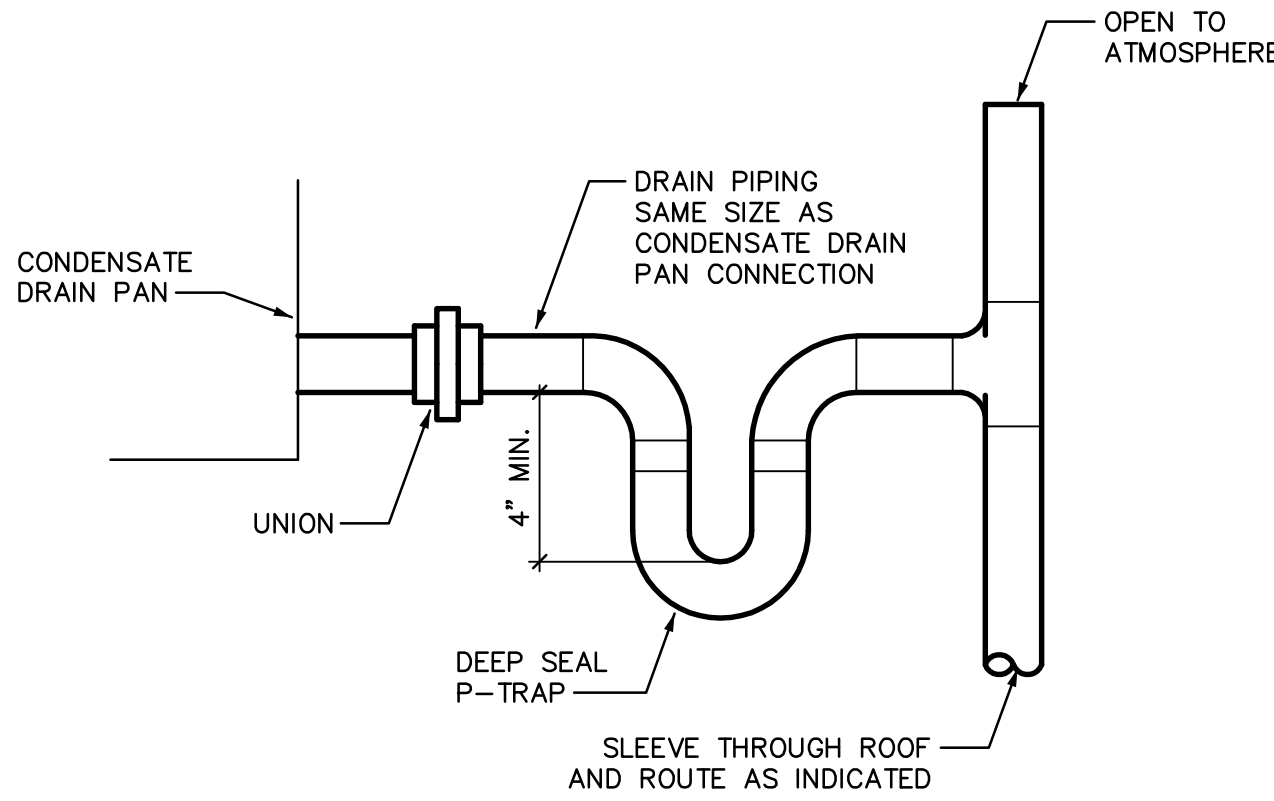


HORIZONTAL GAS FURNACE DETAIL

NOT TO SCALE

4

M3

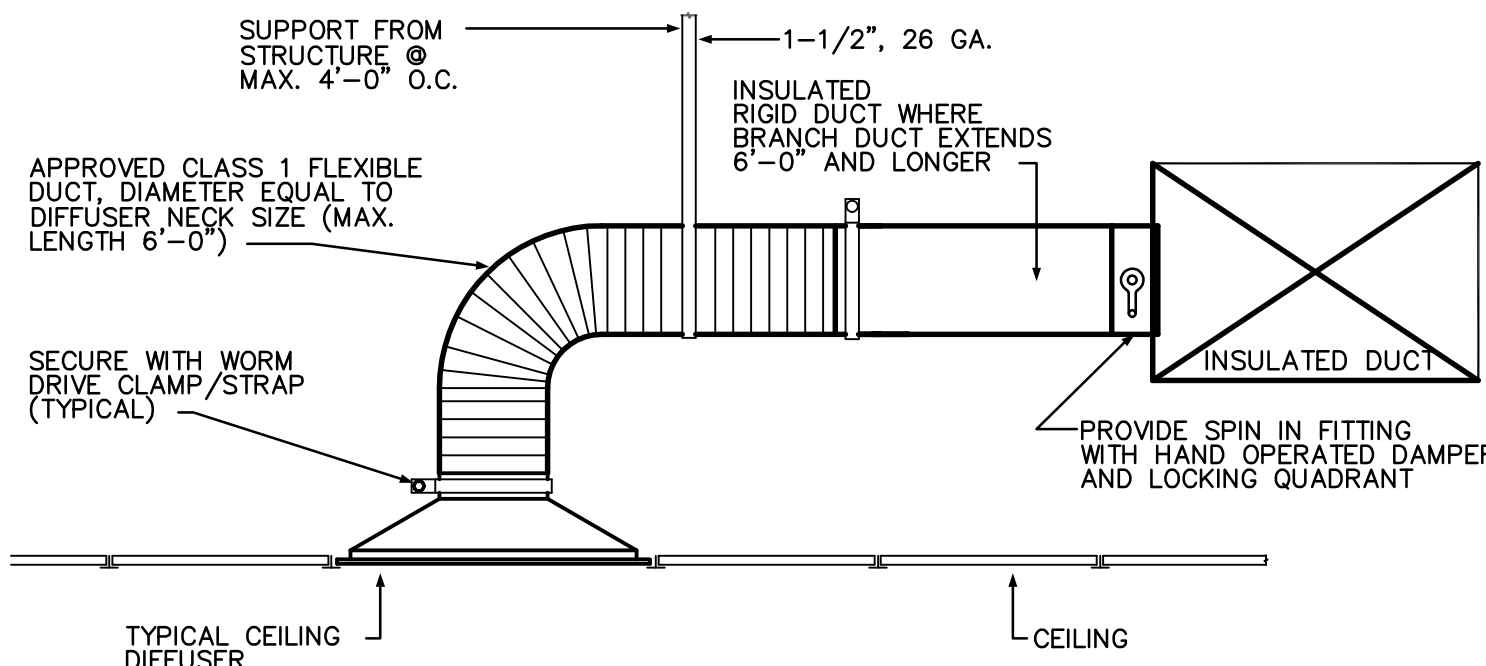


CONDENSATE PIPING AT UNIT DETAIL

NOT TO SCALE

5

M3

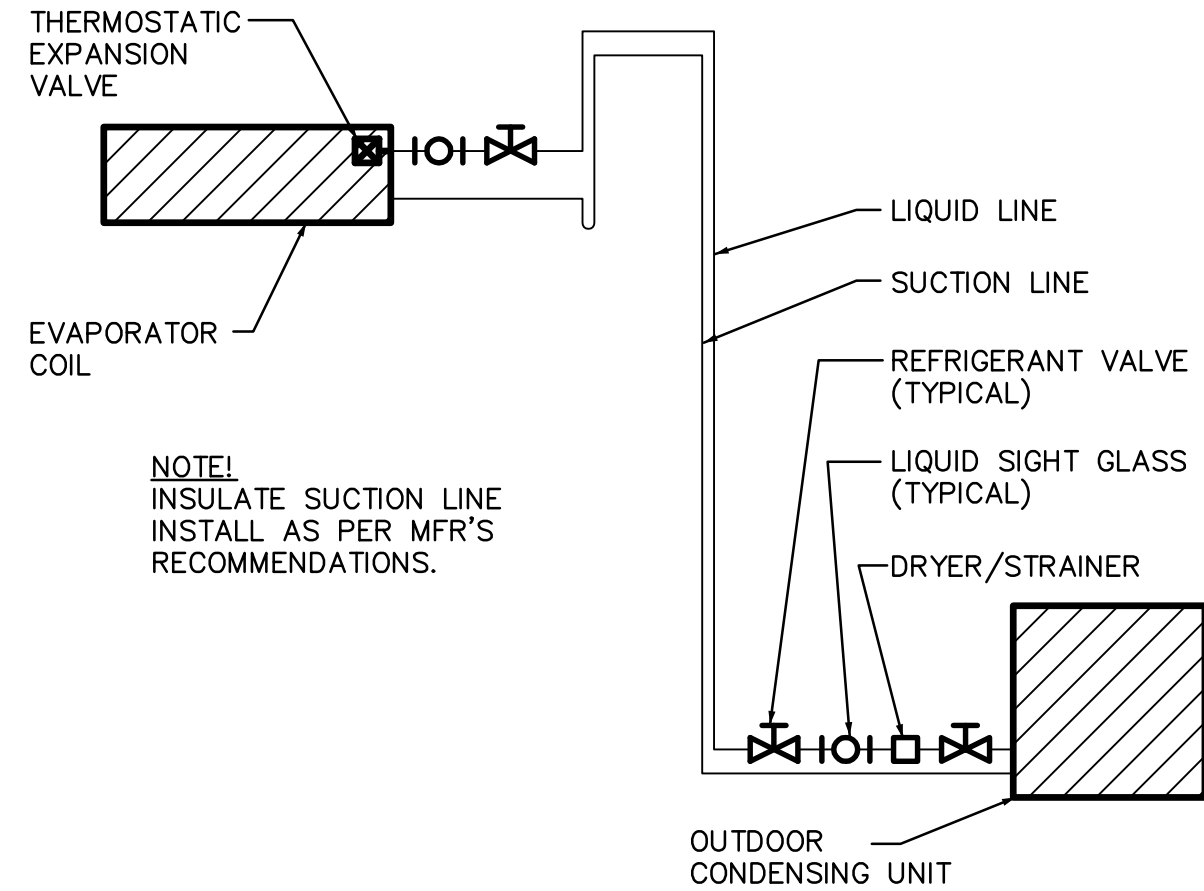


BRANCH DUCT TAKE-OFF DETAIL

NOT TO SCALE

1

M3

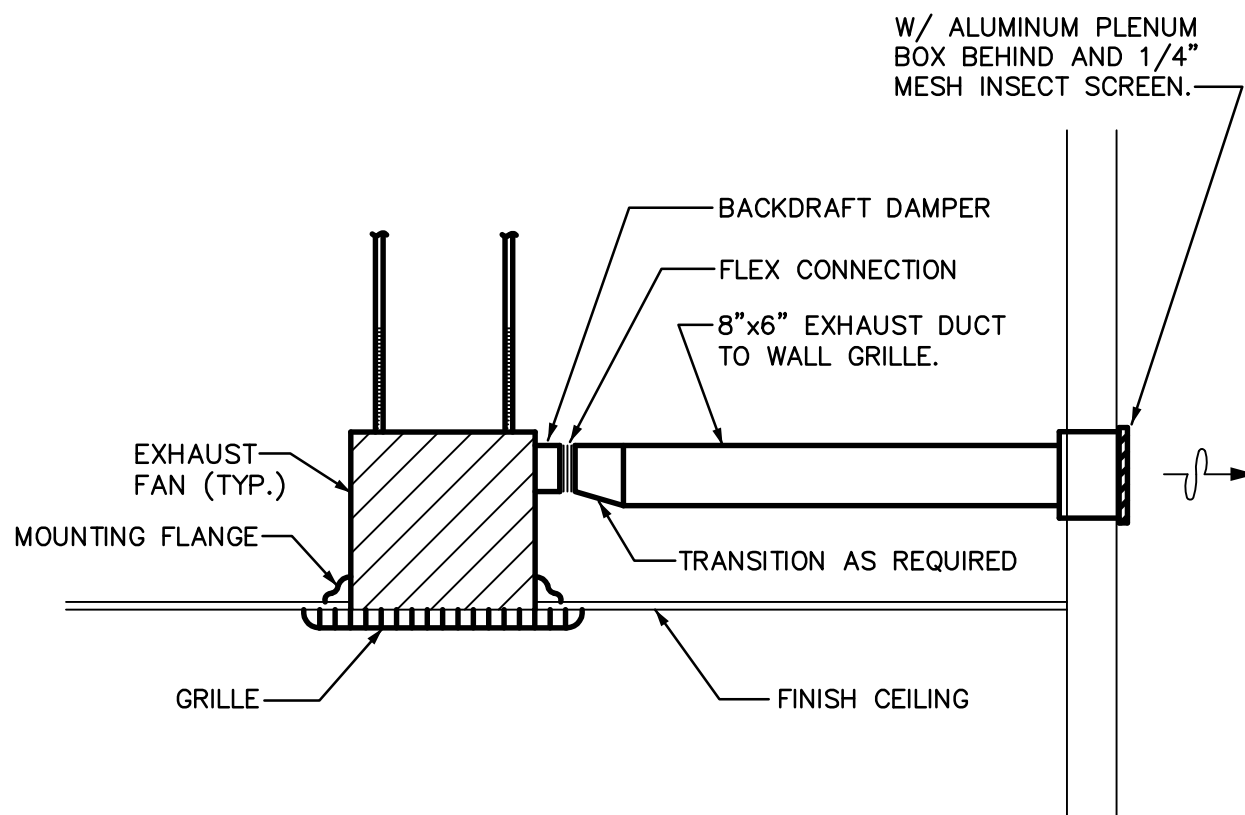


SPLIT SYSTEM REFRIGERANT PIPING DETAIL

NOT TO SCALE

2

M3



EXHAUST FAN DETAIL

NOT TO SCALE

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M3

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DRAWING: MECHANICAL DETAILS

PROJECT:

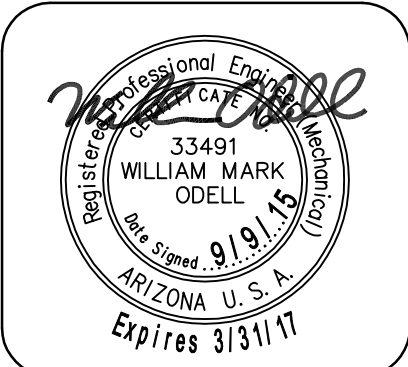
Heatwave Commercial Building

6397 Lear Ln.

Prescott, AZ 86301

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ARCHITECTURE & PLANNING

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July 6, 2015
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672
SHEET

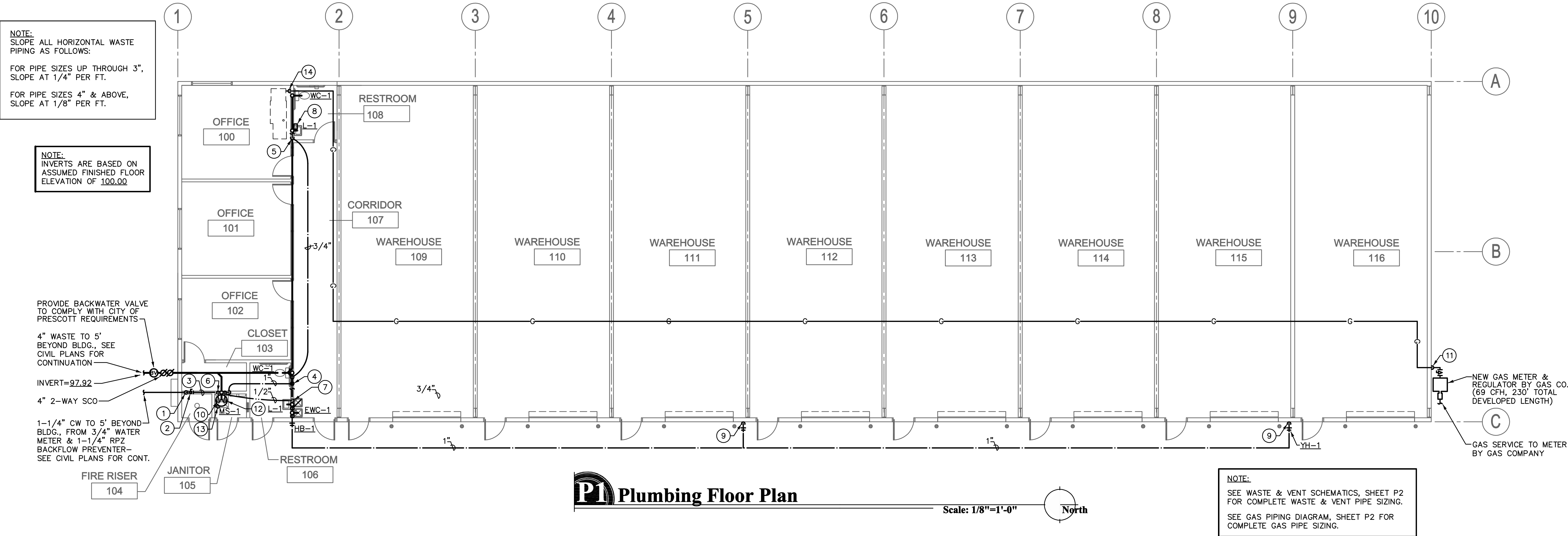
M3



611 West Delano Ave
Prescott, AZ 86301
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Project
#19060

10922 N. 153rd Ln.
Surprise, AZ 85379
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PLUMBING GENERAL NOTES:

1. ALL PLUMBING WORK SHALL COMPLY WITH THE MOST STRINGENT OF APPLICABLE CODES, ORDINANCES, OR THE SPECIFICATIONS.
2. ALL FIXTURES SHALL BE PROPERLY VENTED TO THE ATMOSPHERE.
3. COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
4. WATER PIPING INSTALLED UNDER CONCRETE SLAB SHALL BE LOOPED IN PARTITION WALLS WITH NO JOINTS UNDER SLAB & WITH PLASTIC SLEEVE FOR EACH PENETRATION THROUGH SLAB.
5. ALL WATER PIPING TO BE CONTROLLED BY FULL FLOW BALL VALVE.
6. LOCATE ALL VENTS THROUGH ROOF 10'-0" FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.
7. VERIFY INVERT ELEVATIONS (WASTE LINES), SIZES, & LOCATIONS OF ALL EXISTING GAS, WATER & WASTE LINES TO WHICH NEW PIPING CONNECTS PRIOR TO MAKING-UP OR INSTALLATION OF PIPING.
8. NOT USED.
9. LOCATE ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER EQUIPMENT REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENTS, INSPECTION, REMOVAL OR REPLACEMENT SO AS TO BE ACCESSIBLE WITH REFERENCE TO THE FINISHED BUILDING.
10. FULL WAY VALVE IS REQUIRED ON THE DISCHARGE SIDE OF EACH METER AND AT THE COLD WATER SUPPLY TO EACH WATER HEATER.
11. INSTALL APPROVED DIELECTRIC ISOLATORS AT ALL CONNECTIONS OF DISSIMILAR METALS.
12. REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL LINE SIZES.
13. WHERE POSSIBLE, TIE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH ROOF.
14. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS & INCLUDE IN HIS BID AN AMOUNT TO FURNISH & INSTALL ANY FIXTURES SHOWN IN ADDITION TO PLUMBING DRAWINGS.
15. SOLDERS AND FLUX HAVING A LEAD CONTENT IN EXCESS OF TWO-TENTHS OF ONE PERCENT SHALL NOT BE USED IN THE INSTALLATION OR REPAIR OF PLUMBING PROVIDING WATER FOR HUMAN CONSUMPTION.
16. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.

WATER CALCULATION:

FIXTURE UNITS = 28 FU / 19 GPM

PIPE LENGTH TAP TO METER	30 FT.
PIPE LENGTH METER TO LAST FIXTURE	170 FT.
VERTICAL PIPE LENGTH TO HIGHEST FIXTURE	5 FT.
TOTAL PIPE LENGTH	205 FT.
FITTING LOSS (25%)	51 FT.
TOTAL DEVELOPED LENGTH	256 FT.

WATER PIPE SIZING CRITERIA

STREET PRESSURE	60.00 PSI*
WATER METER LOSS (3/4")	8.50 PSI
BACKFLOW PREVENTER LOSS (1")	12.00 PSI
STATIC LOSS (5' x 0.43)	2.15 PSI
FIXTURE LOSS	20.00 PSI
PRESSURE AVAILABLE FOR PIPING	17.35 PSI

$$17.35 \text{ PSI} / 256 \text{ FEET} \times 100 = 6.8 \text{ PSI MAXIMUM ALLOWABLE DROP PER 100 FEET PIPE LENGTH}$$

*ASSUMED WATER PRESSURE-- CONTRACTOR SHALL VERIFY ACTUAL WATER PRESSURE PRIOR TO CONSTRUCTION. IF PRESSURE IS LESS THAN 60 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 6.8 PSI LOSS

PIPE SIZE	G.P.M.	F.U.(TANK)
1/2"	3	3
3/4"	8	9
1"	16	23
1-1/4"	28	49

FIXTURE UNIT CALCULATIONS

DESCRIPTION	QTY	F.U. EACH		TOTAL F.U.	
		WASTE	WATER	WASTE	WATER
WATER CLOSET (F.T.)	2	4	5	8	10
LAVATORY	2	1	2	2	4
MOP SINK	1	2	3	2	3
ELECTRIC WATER COOLER	1	1	1	1	1
HOSE BIBB	2	-	5	-	10
TOTAL FIXTURE UNITS					28

KEYNOTES

- 1-1/4" CW RISE FROM BELOW SLAB.
- 1-1/4" BALL VALVE (BLDG. SHUTOFF) IN WALL WITH ACCESS PANEL (ACCESS FROM CLOSET 103).
- 1-1/4" HEADER IN WALL, WITH 3/4" UP TO WATER HEATER, 1/2" TO MOP SINK, & 1" DOWN TO BELOW SLAB & OVER TO RESTROOM 106.
- 1" CW RISE TO 1" HEADER, WITH 3/4" DOWN & OVER TO RESTROOM 108, 1/2" TO WC, LAV & ELECT. WATER COOLER, 3/4" TO NON FREEZE HOSE BIBB, & 1" DOWN TO EXIT BLDG. BELOW GRADE (TO YARD HYDRANTS).
- 3/4" CW RISE TO 3/4" HEADER, WITH 1/2" TO WATER HEATER, & 1/2" TO LAV & WC.
- 3/4" HW OUT OF WATER HEATER, WITH 1/2" TO MOP SINK & 1/2" DOWN & OVER TO LAV.
- 1/2" HW RISE TO LAV.
- TANKLESS ELECTRIC WATER HEATER WH-2, SEE DETAIL, SHEET P2. MOUNT ON WALL BELOW LAV. EXTEND 1/2" HW FROM UNIT TO LAV.
- 3/4" CW RISE TO NON-FREEZE YARD HYDRANT.
- 3/4" H & CW DOWN TO WATER HEATER.
- GAS OUT OF METER, RISE ALONG EXT. WALL & ENTER BLDG. BELOW ROOF.
- ELECTRIC WATER HEATER WH-1, MOUNT ON SHELF OVER MOP SINK. SEE DETAIL SHEET P2.
- FULL SIZE WATER P & T RELIEF DRAIN LINE TO TERMINATE +2" ABV. MOP SINK RIM WITH 90° ELBOW DOWN.
- GAS CONNECTION TO ATTIC MOUNTED FURNACE, PROVIDE LUBRICATED PLUG COCK & 6" DIRT LEG AT UNIT CONNECTION.

PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
—	W	WASTE PIPING
— — — —	V	VENT PIPING
— — — —	CW	COLD WATER PIPING
— — — —	HW	HOT WATER PIPING
— G —	G	NATURAL GAS PIPING
— BV —	BV	BALL VALVE
— FCO, SCO —	FCO, SCO	FLOOR OR SURFACE CLEANOUT
— WCO —	WCO	WALL CLEANOUT
— VTR —	VTR	VENT THRU ROOF
— U.N.O. —	U.N.O.	UNLESS NOTED OTHERWISE

PLUMBING NOTE:

ALL PLUMBING FIXTURES SHALL BE OF A LOW-FLOW DESIGN WHICH LIMITS THE WATER FLOW NOT TO EXCEED THE FOLLOWING:

WATER CLOSETS: 1.6 GALLONS PER FLUSH
LAV FAUCETS: .5 GALLONS PER MINUTE

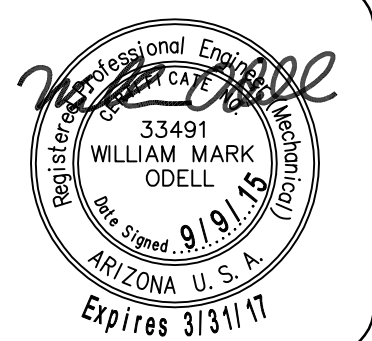
OSE
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Consulting Engineers

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DRAWING: PLUMBING FLOOR PLAN

PROJECT: Heatwave Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

DRAWN BY

CHECKED BY

DATE
July 6, 2015

SCALE
AS NOTED

JOB NO.
672

SHEET

P1

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 and Owner, 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 and Administrative Authority approval, IAPMO approved PVC pipe with DWV type solvent weld fittings is acceptable for sanitary waste and vent and storm drainage piping.
- 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 Supply Lines:
- Mains and horizontal branches - 1" thickness.
- Drops in walls and partitions - 1/2" thickness.

2.4 Valves:

- 2.4.1 Shutoff Valve: Milwaukee BB1-350 bronze body, solder joint valve for all lines up through 2".
- 2.4.2 Gas Valves, 3/4" and Smaller: Milwaukee BB-1-102.
- 2.4.3 Gas Valves, 1" to 1-1/2": Rockwell-Nordstrom #142 with #555 lubricant for natural gas service.
- 2.4.4 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.
- Electric Water Coolers: Oasis, Elkay, Halsey Taylor.
- Electric Water Heaters: Ruud, A. O. Smith, American.
- Tankless Electric Water Heaters: Steibel Eltron.
- Mop Sinks: Fiat, Swan, Mustee.
- Valves: Crane, Kennedy, Stockham, Grinnell, Milwaukee, Wolverine.
- 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, Beneko, 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 fittings 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 Sediant 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.

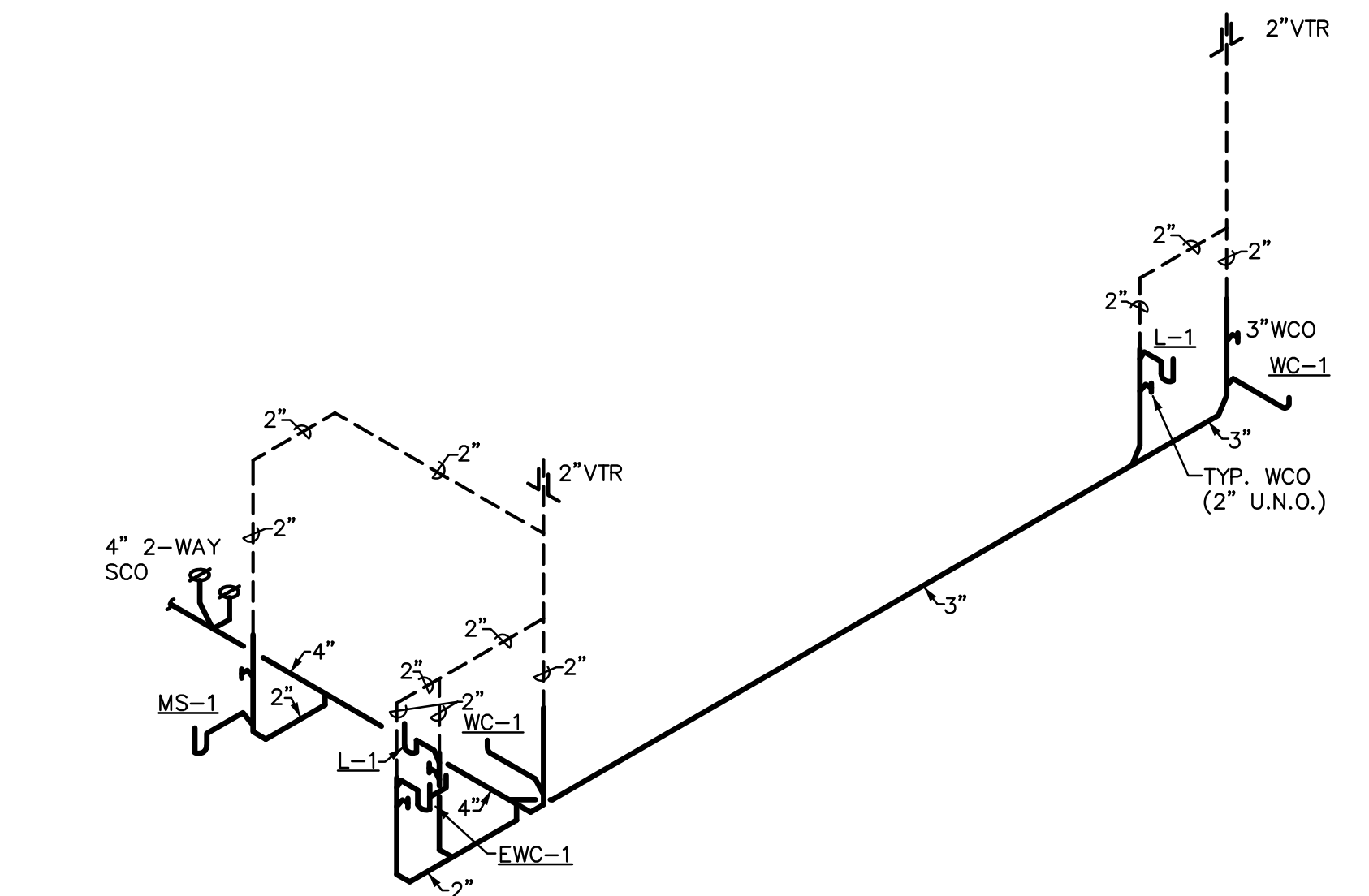
- 3.2.3 Escutcheon Plates: Install cast brass split ring with setscrew at all locations where exposed pipes pass through walls, floors and/or ceilings. Provide polished chrome-plated escutcheons in finished rooms, all others polished brass.

- 3.3 Underground Water Piping: Bury all underground water piping a minimum of 24" below finished grade. Install copper lines below concrete floors so that no joints occur below floor and wrap with 20 mils of polyethylene tape with a minimum of 50% overlap.

3.4 Electrical: Wiring by Electrical Contractor.

PLUMBING FIXTURE SPECIFICATIONS

SYMBOL	DESCRIPTION
WC-1	WATER CLOSET (ADA COMPLIANT): FIXTURE: AMERICAN STANDARD "CADET PRO" 215AA.104, 1.28 GALLONS PER FLUSH, 16-1/2" HIGH RIM, FLOOR MOUNTED, VITREOUS CHINA, ELONGATED BOWL. SEAT: CHURCH 9500 WHITE OPEN FRONT SEAT WITH CONCEALED CHECK HINGE AND WITHOUT COVER. SUPPLIES: EASTMAN C5CR-20-LK, 1/2" x 3/8" ANGLE STOP WITH FLEXIBLE TUBE RISER.
L-1	LAVATORY (WALL HUNG- ADA COMPLIANT): FIXTURE: AMERICAN STANDARD, MODEL No. 0355.012, WALL HUNG 20" x 18" VITREOUS CHINA, FRONT OVERFLOW. FAUCET: AMERICAN STANDARD "RELIANT 3" MODEL 7385.050, 4" CENTERSET FAUCET WITH CERAMIC DISC CARTRIDGE, METAL SINGLE LEVER ADA HANDLE, ADJUSTABLE HOT LIMIT SAFETY STOP, CAST BRASS WATERWAY, 0.5 GPM MAXIMUM FLOW RATE AERATOR. PROVIDE CAST-IRON WALL HANGER BOLTED TO WALL. SUPPLIES: EASTMAN C5CR-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.
MS-1	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" P TRAP.
FWC-1	ELECTRIC DRINKING FOUNTAIN (HIGH-LOW TYPE): FIXTURE: OASIS MODEL No. P8ACSL, WALL MOUNTED BARRIER FREE SPURT-LEVEL ELECTRIC WATER COOLER WITH CAPACITY OF 7.8 GPH AT 90° F AMBIENT AT 80° F INLET AND 50° F OUTLET; COMPRESSOR: 1/5 HP, 120 VOLT, HERMETICALLY SEALED WITH CAPACITOR AND OVERLOAD PROTECTION; COOLER MANUFACTURER SHALL PROVIDE A 5-YEAR, 100% REPLACEMENT WARRANTY ON THE COMPRESSOR, CONTROLS, TANK AND INTEGRAL PIPING. SUPPLY: EASTMAN C5CR-15-LK, 1/2" x 3/8" ANGLE STOP WITH FLEXIBLE TUBE RISER. TRAP: MCGUIRE 8902 1-1/4" x 1-1/2" CAST BRASS P TRAP. REFER TO ARCHITECTURAL DRAWINGS FOR UNIT MOUNTING HEIGHTS.
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.
WH-2	INSTANTANEOUS WATER HEATER: STEIBEL ELTRON MODEL DHC 3-2, 2.5 KW, 208 VOLT, SINGLE PHASE, UL LISTED INSTANTANEOUS TYPE WATER HEATER, COMPLETE WITH FLOW SWITCH.
YH	YARD HYDRANT: WOODFORD MODEL No. Y2, FREEZELESS YARD HYDRANT, 3/4" HOSE CONNECTION WITH INTEGRAL VACUUM BREAKER, AUTOMATIC DRAINING, WITH ADJUSTABLE LINK, ROD GUIDE, LOCKABLE FLOW FINDER, ONE PIECE VARIABLE FLOW PLUNGER, FLOW DIVERTER, 1" N.P.T. INLET, 1-1/4" GALVANIZED STEEL PIPE CASING, 3/8" GALV. STEEL OPERATING ROD WITH TAPPED DRAIN HOLE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. OPERATING ROD AND PIPE CASING LENGTHS TO MATCH DEPTH OF FROST LINE.
HB-1	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.



WASTE AND VENT SCHEMATIC

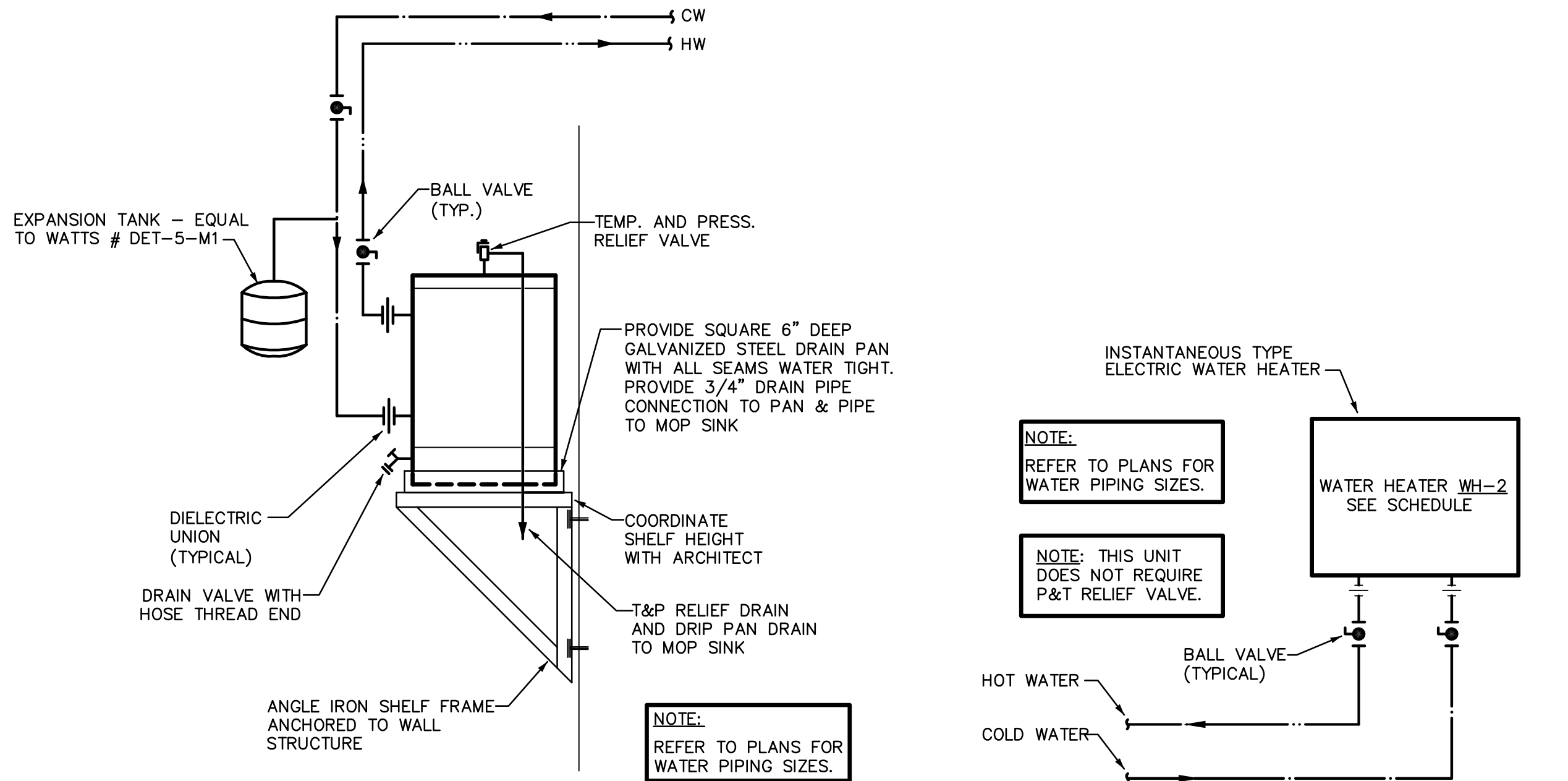
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ELECTRIC WATER HEATER SCHEDULE

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	EGSP6	6	2.0	120/1	8.0	140	MOUNTED ON SHELF ABOVE MOP SINK

FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	TRAP SIZE	W	V	CW	HW	REMARKS
WC-1	WATER CLOSET (HC)	INTEGRAL	3"	2"	1"	-	FLOOR MOUNTED, FLUSH TANK
L-1	LAVATORY (HC ACCESSIBLE)	1-1/4"x 1-1/2"	2"	1-1/2"	1/2"	1/2"	WALL MOUNTED
EW-1	ELECTRIC WATER COOLER	1-1/2"	2"	1-1/2"	1/2"	-	ADA COMPLIANT SPLIT LEVEL
MS-1	MOP SINK	2"	2"	1-1/2"	1/2"	1/2"	FLOOR TYPE
YH-1	YARD HYDRANT	-	-	-	1"	-	NON-FREEZE, AUTOMATIC DRAINING TYPE WITH INTEGRAL VACUUM BREAKER
HB-1	HOSED BIBB	-	-	-	3/4"	-	NON-FREEZE TYPE W/ INTEGRAL VAC. BREAKER



ELECTRIC WATER HEATER DETAIL

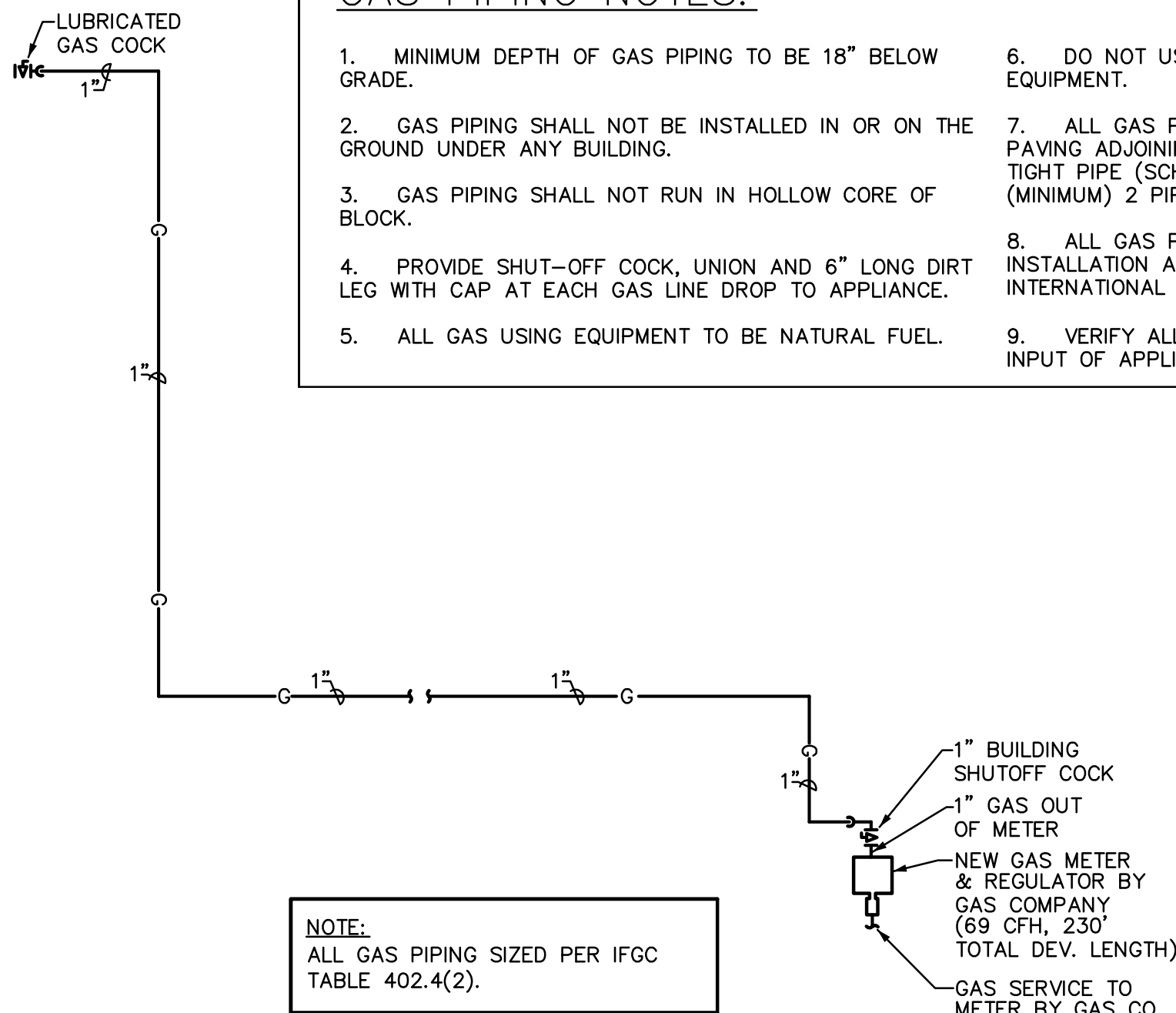
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TANKLESS WATER HEATER

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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.
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, INTERNATIONAL FUEL GAS CODE.
9. VERIFY ALL GAS BTU/H INPUTS WITH ACTUAL BTU/H INPUT OF APPLIANCE SUPPLIED.

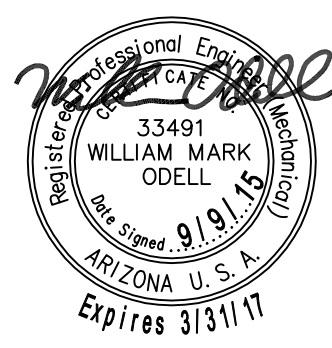


GAS PIPING DIAGRAM

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ARCHITECTURE & PLANNING

DRAWING: PLUMBING SCHEDULES, DETAILS, SCHEMATICS & SPECS

PROJECT: Heatwave Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

DRAWN BY
CHECKED BY
DATE
July 6, 2015
SCALE
AS NOTED
JOB NO.
672
SHEET

P2



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Prescott, AZ 86301
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10922 N. 153rd Ln.
Surprise, AZ 85379
Project #15060
(623) 444-6143

ELECTRICAL SYMBOLS

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT

	FLUORESCENT FIXTURE, WITH FIXTURE DESIGNATED BY LETTER. SMALL LETTER INDICATES SWITCH LEG
	NIGHT LIGHT- NOT SWITCHED
	FLUORESCENT STRIP FIXTURE.
	CEILING OR WALLMOUNTED FIXTURE.
	PORCELAIN PULL CHAIN FIXTURE
	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. TYPE, RATING AS NOTED
	DUPLEX RECEPTACLE, + 18" A.F.F. (20A)
	DUPLEX RECEPTACLE ABOVE COUNTER, VERIFY HEIGHT. (20A)
	FOURPLEX RECEPTACLE, + 18" A.F.F. (20A)
	HALF SWITCHED DUPLEX RECEPTACLE (20A)
	SPECIAL RECEPTACLE - SIZE & TYPE AS NOTED

POWER / PHONE / DATA 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.

TELEPHONE SYSTEM CONDUIT HOMERUN WITH NYLON PULLWIRE (1" C. MIN UNO)

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

EQUIPMENT TERMINATION CONNECTION POINT VERIFY EXACT LOCATION LOAD AND VOLTAGE AS NOTED

MOTOR

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

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

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
NF	NON-FUSED
UNO	UNLESS OTHERWISE NOTED
FBO	FURNISHED BY OTHERS
NL	NIGHT LIGHT
TYP	TYPICAL
EDF	ELECTRIC DRINKING FOUNTAIN
TMB	TELEPHONE MOUNTING BOARD
TTC	TELEPHONE TERMINAL CABINET
SES	SERVICE ENTRANCE SECTION
EF	EXHAUST FAN

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 A-31). FIRE ALARM CONTRACTOR SHALL PROVIDE SPEC'S., DRAWINGS OF DEVICE LOCATIONS AND CUT SHEETS OF DEVICES TO FIRE MARSHALL FOR APPROVAL PRIOR TO INSTALLATION.

OUTLET MOUNTING HEIGHTS PER AMERICAN DISABILITY ACT

SWITCHES	+48" OMD
RECEPTACLES	+18" OMD
TELEPHONE	+18" OMD
SIDE REACH	+54" OMD

FIRE WALL/FLOOR PENETRATION

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

SPECIFICATIONS

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

SITE RELATED WORK

PRIOR TO COMMENCING 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:

- TRENCH AND BACKFILL FOR CONDUITS PER UTILITY CO. REQUIREMENTS. (FIELD VERIFY)
- TRANSFORMER MOUNTING PAD PER UTILITY CO. REQUIREMENTS.
- PROVIDE SECONDARY AND/OR PRIMARY CONDUITS. (SEE ONE LINE DIAGRAM).
- SERVICE ENTRANCE SECTION (S.E.S.) & DIST. SECT. BD. (DP-1) VERIFY PROPOSED EQUIPMENT WILL FIT THE SPACE ALLOWED PRIOR TO ORDERING AND/OR CONSTRUCTION.
- 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).
- 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 WHEN SHOWN ON THE PLANS OR NOT. ACTUAL ROUTING, CONDUIT, TRENCH AND PAD REQUIREMENTS SHALL BE AS SPECIFIED BY UTILITY COMPANIES. VERIFY REQUIREMENTS WITH UTILITIES PRIOR TO INSTALLATION.
- WHERE APPLICABLE, PROVIDE EQUIPMENT GROUNDING (BOND) CONDUCTOR FOR METALLIC PROCESSING AND FIRE SPRINKLER PIPING PER NEC 250-40 AND SIZED PER NEC 250-95 TABLE.

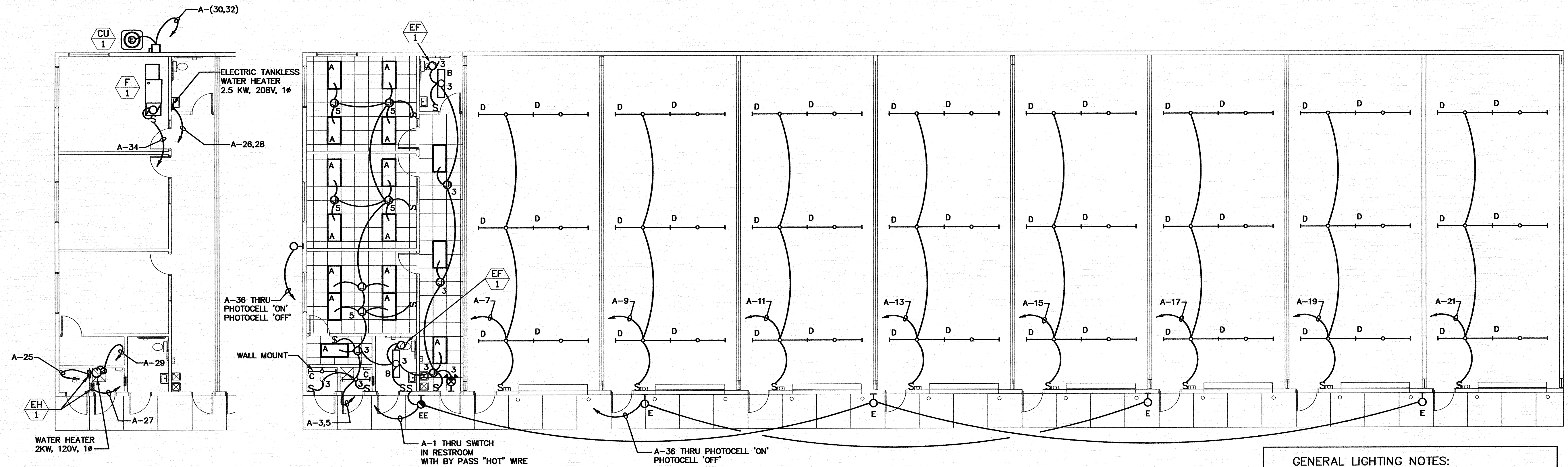
LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER AND MODEL NO.	VOLTS	LAMPS	MOUNTING	FINISH	REMARKS
A	LITHONIA 2SPB 3 32 A12125 120 GEB 1/3	120	(3) F032T8/SP35	LAY-IN	STANDARD	2' x 4' FLUORESCENT TROFFER WITH .125" PRISMATIC LENS
B	LITHONIA LB 2 32 120 GEB 10	120	(2) F032T8/SP35	SURFACE	STANDARD	4' NARROW BODY FLUOR. WRAPAROUND WITH ELECTRONIC BALLAST
C	LITHONIA C 2 32 120 GEB	120	(2) F032T8/SP35	SURFACE	STANDARD	4' FLUORESCENT STRIP
D	LITHONIA TC 2 32 120 GEB	120	(4) F032T5/SP35	SURFACE	STANDARD WHITE	8' FLUORESCENT STRIP WITH T5 LAMPS
E	LSI "CHALLENGER" W 3 42 CFL2 F 120 BRZ	120	(2) 42DTT/CFL/35K	WALL 16"-0" A.F.F.	BRONZE	17.5" W. COMP. FLUOR. WALL SCONCE W/TYPE 3 DIST.
EE	LSI "CHALLENGER" CHS W 3 42 CFL2 F 120 BRZ BB	120	(2) 42DTT/CFL/35K	WALL 16"-0" A.F.F.	BRONZE	17.5" W. COMP. FLUOR. WALL SCONCE W/TYPE 3 DIST., BATTERY BACK-UP
	LITHONIA LHOM S W 1 R 120 H	120	LED & (2) 6W HAL FURN'D. WITH UNIT	CEILING	WHITE HOUSING RED LETTER	COMBINATION EMERGENCY/EXIT LIGHT WITH LEAD-CAL. BATTERY

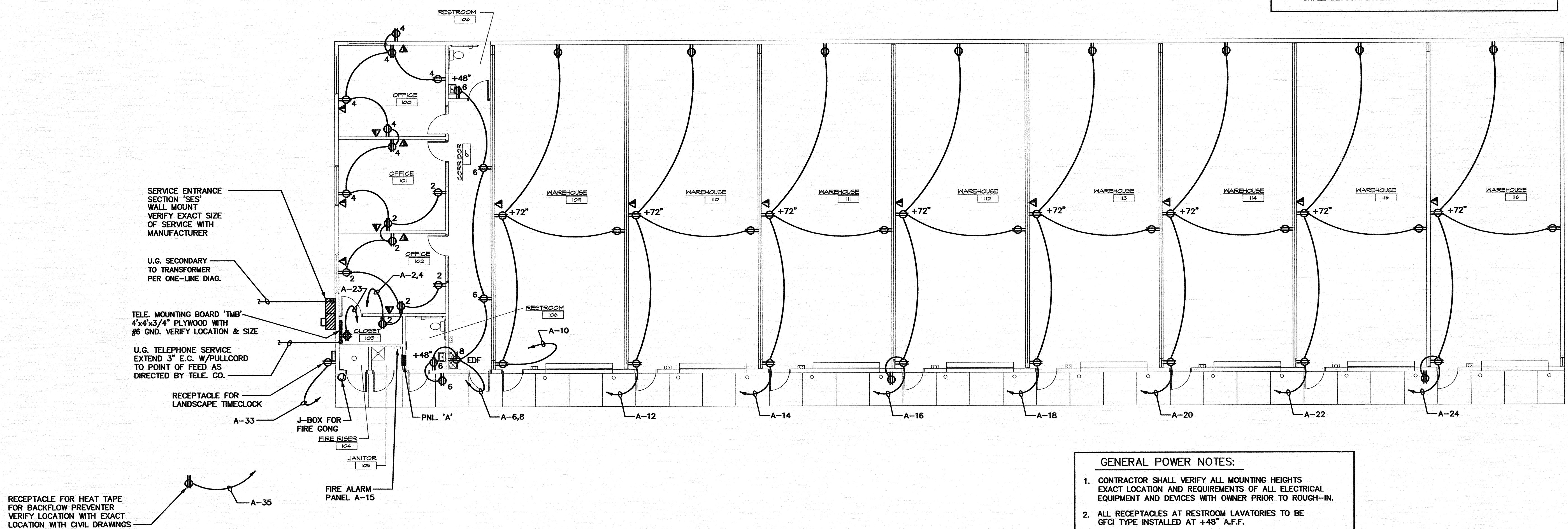
NOTE: ① ALL FLUORESCENT FIXTURES TO BE FURNISHED WITH ELECTRONIC BALLAST(S).

② VERIFY ALL FINAL MOUNTING HEIGHTS WITH ARCHITECT

PANELBOARD					A	SCHEDULE				
MAINS: 400A MLD							LOCATION: SEE PLAN			
VOLTAGE: 120 / 208V, 3Ø, 4W							MOUNTING: FLUSH			
TYPE: C-H "PRL16" OR EQUAL (PLUG-IN)							MIN. A.I.C.: 22/10K SERIES RATED			
CIRCUIT DESCRIPTION		BKR.	CIR. NO.	Ø A	Ø B	Ø C	CIR. NO.	BKR.	CIRCUIT DESCRIPTION	
LIGHTS - EXTERIOR	20	1	325	1260			20	1	RECEPT'S. -	
		3	1250							
		5	1080							
		7	1050							
		9	600							
		11	1050							
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		39	1945							
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- GENERAL LIGHTING NOTES:**
1. CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS EXACT LOCATION AND REQUIREMENTS OF ALL LIGHTING FIXTURES AND SWITCHES WITH OWNER PRIOR TO ROUGH-IN.
 2. NIGHT LIGHTS (NL), EMERGENCY & EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT.

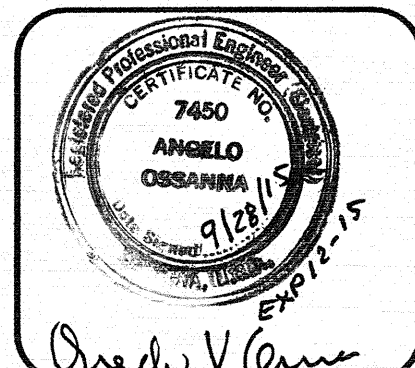


- GENERAL POWER NOTES:**
1. CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS EXACT LOCATION AND REQUIREMENTS OF ALL ELECTRICAL EQUIPMENT AND DEVICES WITH OWNER PRIOR TO ROUGH-IN.
 2. ALL RECEPTACLES AT RESTROOM LAVATORIES TO BE GFCI TYPE INSTALLED AT +48" A.F.F.
 3. ALL RECEPTACLES IN THE WAREHOUSE TO BE INSTALLED AT +48" A.F.F. GFCI TYPE
 4. ALL RECEPTACLES WITH-IN 6'-0" OF A SINK SHALL BE GFCI TYPE PER NEC 2006
 5. EXTERIOR ROOF MOUNTED MAINT. RECEPT'S. SHALL BE WP, GFCI TYPE PER NEC 2002.
 6. ALL EXTERIOR RECEPTS. TO BE WP, GFCI TYPE.

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REVISIONS	BY

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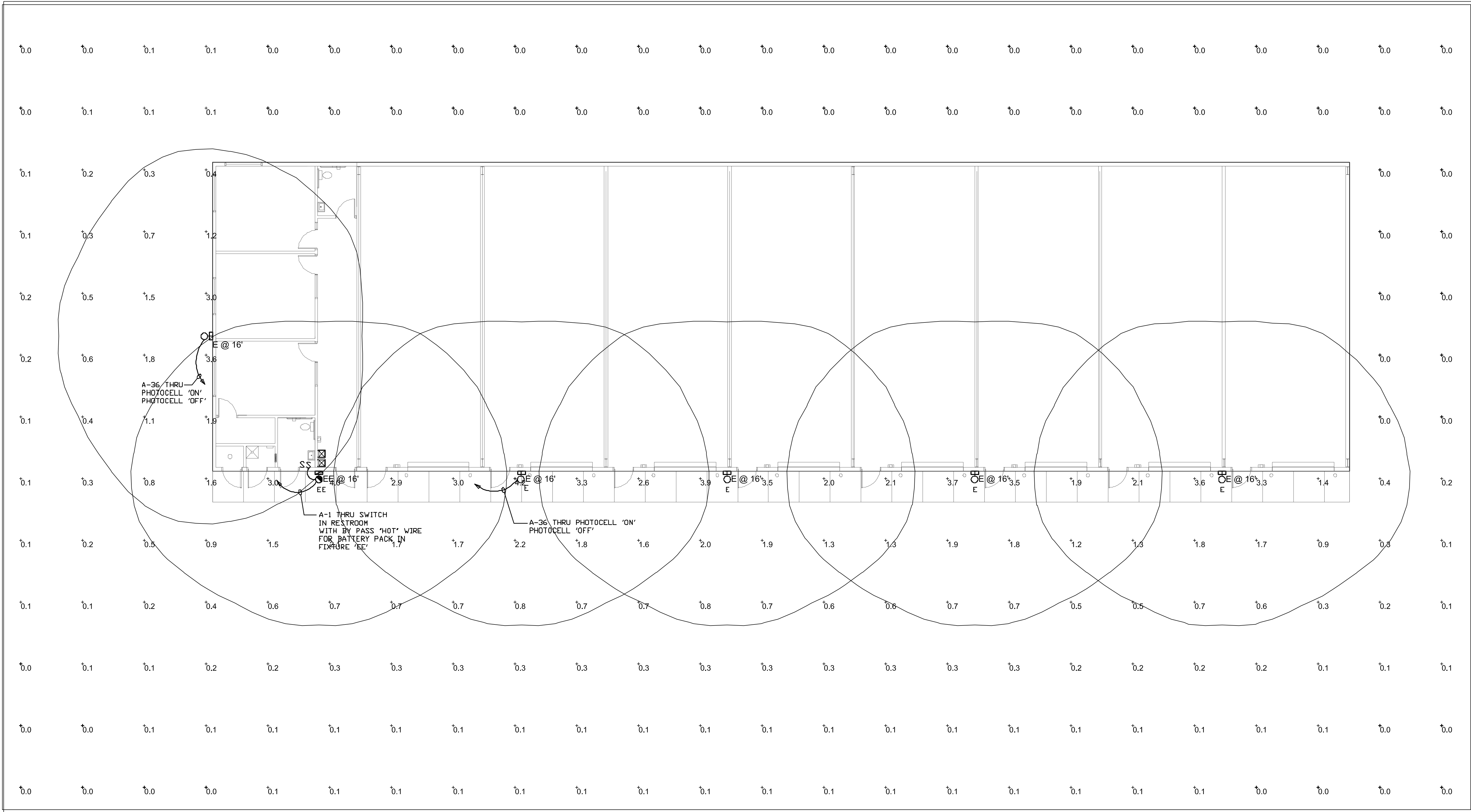


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ARCHITECTURE & PLANNING

DRAWING: ELECTRICAL LIGHTING AND POWER FLOOR PLAN
PROJECT: Heatwale Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

DRAWN BY R.A.
CHECKED BY A.O.
DATE Sept. 23, 2015
SCALE AS NOTED
JOB NO. 672
SHEET

E 1.2

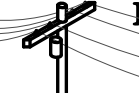


Plan View

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER AND MODEL NO.	VOLTS	LAMPS	MOUNTING	FINISH	REMARKS
E	LSI "CHALLENGER" W 3 42 CFL2 F 120 BRZ	120	(2) 42DTT/CFL/35K	WALL 16'-0" A.F.F.	BRONZE	17.5" W. COMP. FLUOR. WALL SCENCE W/TYPE 3 DIST.
EE	LSI "CHALLENGER" CHS W 3 42 CFL2 F 120 BRZ BB	120	(2) 42DTT/CFL/35K	WALL 16'-0" A.F.F.	BRONZE	17.5" W. COMP. FLUOR. WALL SCENCE W/TYPE 3 DIST., BATTERY BACK-UP

JOB# 15-46



ELECTRICAL DESIGN & CADD SERVICES INC.


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Prescott, AZ 86304

ARCHITECTURE & PLANNING

DRAWING: EXTERIOR LIGHTING PHOTOMETRICS PLAN

PROJECT: Heatwave Commercial Building
6397 Lear Ln.
Prescott, AZ 86301

DRAWN BY R.A.
CHECKED BY A.O.
DATE Sept. 28, 2015
SCALE AS NOTED
JOB NO. 672
SHEET

E 1.3