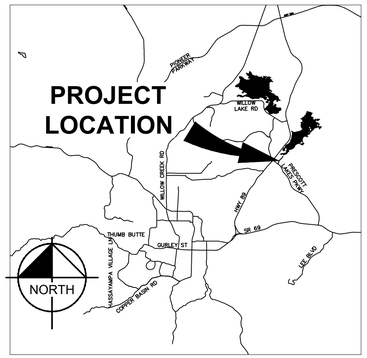
CITY OF PRESCOTT

PUBLIC WORKS DEPARTMENT

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

CIP# 2208-002



VICINITY MAP

NOT TO SCALE

MAYOR

PHIL GOODE

CITY COUNCIL

CONNIE CANTELME
BRANDON MONTOYA
ERIC MOORE
CATHEY RUSING
LOIS FRUHWIRTH
TED GAMBOGI

UTILITY INFORMATION

COMPANY	CONTACT	TELEPHONE
ARIZONA PUBLIC SERVICE CO. 6672 CORSAIR PRESCOTT, ARIZONA 86301	SHERYL McCRACKEN	(928)443-6621
LUMEN TECHNOLOGIES 1445 MASONRY WAY PRESCOTT, ARIZONA 86301	CARLOS SOTO	(470)480-7567
UNISOURCE GAS CO. 6405 WILKINSON DRIVE PRESCOTT, ARIZONA 86301	MALI ROSS	(928)771-7227
SPARKLIGHT 3801 TOWER ROAD PRESCOTT, ARIZONA 86301	ROGER WARD	(928)443-3305
CITY OF PRESCOTT WATER AND SEWER P.O. BOX 2059 PRESCOTT, ARIZONA 86301	BENJAMIN BURNS	(928)777-1130
BLUE STAKE - CALL TWO WORKING DAYS BEFORE YOU DIG 1-800-STAKE-IT outside Maricopa County	CALL TWO WORKING DAYS BEFORE YOU DIG 1-800-STAKE-IT 1-800-782-5348 (OUTSIDE MARICOPA COUNTY)	

NOTE: CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY NECESSARY UTILITY RELOCATION WITH THE APPLICABLE UTILITY.

SPECIAL NOTE:
THE CITY OF PRESCOTT STANDARD DETAILS AND SPECIFICATIONS MEET MINIMUM DESIGN REQUIREMENTS OF THE EQUIVALENT MAG SPECIFICATIONS AND STANDARD DETAILS.

APPROVED TRAFFIC CONTROL PLAN AND R.O.W. PERMIT MUST BE OBTAINED FROM PUBLIC WORKS PRIOR TO BEGINNING WORK IN THE R.O.W.

CITY OF PRESCOTT PUBLIC WORKS IS RESPONSIBLE FOR INSPECTION OF IMPROVEMENTS IN THE R.O.W. AND DESIGNATED PUBLIC UTILITY EASEMENTS ONLY. ALL OTHER IMPROVEMENTS (ON-SITE) SHALL BE INDEPENDENTLY INSPECTED.

PROPERTY MONUMENTS:
PROPERTY CORNERS OR CENTERLINE MONUMENTS ARE TO BE PROTECTED IN PLACE. IF DISTURBED, OR REMOVED DUE TO CONSTRUCTION, THEY ARE TO BE REPLACED ACCORDING TO THE CITY OF PRESCOTT STANDARD DETAIL 120-1P, TYPE A, B, OR C.

BASIS OF BEARING

SURVEY CONTROL IS THE CITY OF PRESCOTT SURVEY DATUM, ALSO BEING ARIZONA STATE PLANE ZONE, ARIZONA CENTRAL 0202, NAD 83, NAVD 88 USING GEOID MODEL GEOID99 (CONUS), CITY OF PRESCOTT - CONVERSION FROM STATE PLANE:

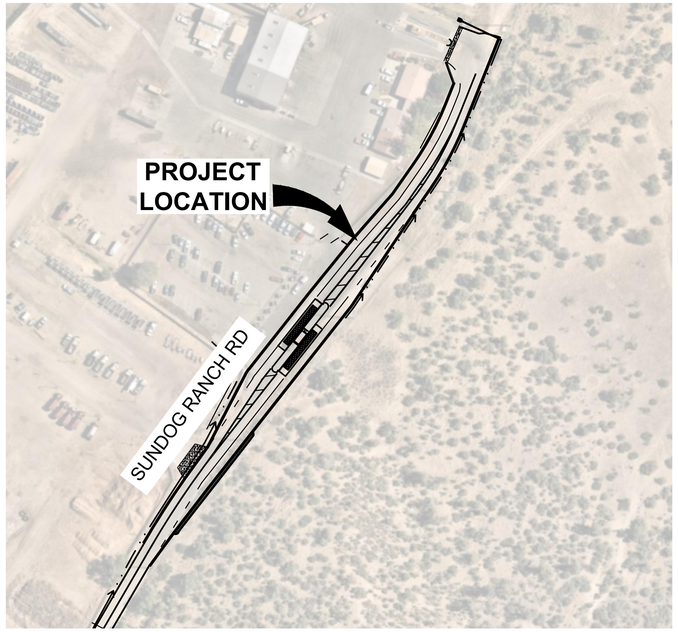
NORTHING; (STATE PLANE X 1.000329975) - 701,456.0090

EASTING; (STATE PLANE X 1.000329975) + 69,457.2499

STATE PLANE CONVERSION FROM CITY OF PRESCOTT NORTHING: (CITY OF PRESCOTT + 701,456.0090) X 0.999670134, EASTING: (CITY OF PRESCOTT - 69,457.2499) X 0.999670134

BENCHMARK

THE BENCHMARK FOR THIS PROJECT IS CITY OF PRESCOTT BENCHMARK ROS-06 NAVD88 ELEVATION 5378.12.



SOLID WASTE SCALE AND FEE BOOTH POTHOLE LIST

PH#	TYPE	TOP	DEPTH(FT)	NORTHING	EASTING	MAT	DIA(FT)
1	SWR	5186.00	3.41	600914.65	616754.13	PVC	0.38
2	TELE	5185.41	4.60	600669.57	616606.84	DB	0.08
3	ELEC	5186.90	5.62	600856.11	616787.65	PVC	0.20
4	ELEC	5186.47	3.73	601012.33	616905.83	PVC	0.38
5	TELE	5186.76	3.32	600964.73	616837.28	HDPE	0.08
6	WTR	5195.88	2.39	601006.14	616872.32	STEEL	0.55
7	WTR	5182.26	3.32	601124.93	616966.98	STEEL	0.55
8	TELE	5179.83	4.30	601240.27	617044.04	DB	0.08
9	WTR	5179.84	3.82	601296.24	617070.21	STEEL	0.55
10	SWR	5184.63	3.24	601062.34	616870.10	PVC	0.38

CITY OF PRESCOTT
Everybody's Hometown

Sheet List Table

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06	TYPICAL SECTIONS	TS01
07	HORIZONTAL CONTROL	HC01
08	HORIZONTAL CONTROL	HC02
09	DEMOLITION PLAN	DM01
10	DEMOLITION PLAN	DM02
11	WATER LINE PLAN AND PROFILE	WT01
12	ROADWAY PLAN	RD01
13	ROADWAY PLAN	RD02
14	ROADWAY PLAN	RD03
15	ROADWAY PLAN	RD04
16	SIGNING AND STRIPING PLAN	ST01
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18	TEMPORARY ACCESS PLAN	TC01
19	EROSION CONTROL PLAN	EC01
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23	ELECTRICAL GENERAL NOTES AND LEGEND	EL01
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46	STRUCTURAL FRAMING PLAN	S300
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GEOTECHNICAL ENGINEER

ENGINEERING AND TESTING
CONSULTANTS, INC.
417 NORTH ARIZONA AVENUE
PRESCOTT, AZ 86301
(928) 778-9001

TOPOGRAPHIC SURVEYOR

SHEPHARD-WESNITZER, INC.
221. N MARINA ST. SUITE 102
PRESCOTT, AZ 86301
AARON D. BORLING, RLS

ENGINEER

KIMLEY-HORN & ASSOCIATES, INC.
JAMES WARNE, P.E.
101 W GOODWIN ST., SUITE 303
PRESCOTT, AZ 86303
(928)458-7126
JAMES.WARNE@KIMLEY-HORN.COM

REVIEWED BY

CITY OF PRESCOTT PUBLIC WORKS — DATE 2/28/24

RECORD DRAWING CERTIFICATION

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

THIS CERTIFICATION DOES NOT WARRANT MATERIALS, WORKMANSHIP, METHODS OF CONSTRUCTION, OR OTHER ITEMS AFFECTING THE WARRANTY OF THIS PROJECT, TO THE CITY OF PRESCOTT. USERS OF THIS INFORMATION ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ACTUAL CONDITIONS.

REGISTERED PROFESSIONAL ENGINEER (CIVIL) — DATE

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

DWG. NO. CV01 | DATE 02/23/2024 | SHEET NO. 01 OF 52

CITY OF PRESCOTT PUBLIC WORKS
SOLID WASTE SCALE AND FEE BOOTH RELOCATION
COVER SHEET

CITY OF PRESCOTT *Everybody's Hometown* | PREPARED BY DLP | CHECKED BY JRW | FOR: COP

Registered professional engineer — CERTIFICATE NO. 69250 JAMES R. WARNE — 2/27/24 — Not valid without signature — ARIZONA, U.S.A.

Kimley»Horn
© 2024 KIMLEY-HORN & ASSOCIATES, INC.
101 W. GOODWIN ST., SUITE 303
PRESCOTT, ARIZONA 86303
PHONE: 928-458-7121
WWW.KIMLEY-HORN.COM

NO.	BY	DATE	ENGINEER
			APPRV
			CITY

REVISIONS

REVIEW:

CIP #: 2208-002

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040-FEE BOOTH AND SCALE\CADD\07-SHEETS\ROADWAY\CV01.DWG

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 AND MODIFIED ON THE PLANS, IN CONJUNCTION WITH THE LATEST REVISIONS OF THE MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS (MAG STANDARDS), UNLESS SPECIFICALLY MODIFIED ON THE PLANS.
2. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF MAG AND CITY OF PRESCOTT STANDARDS AND SPECIFICATIONS AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS NECESSARY TO COMPLETELY AND ACCURATELY INTERPRET THESE PLANS.
3. ALL PLANS SIGNED BY THE CITY ENGINEER ARE NULL AND VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED. RESUBMITTAL AND REVIEW SHALL BE REQUIRED, AFTER ONE YEAR.
4. ALL QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE, ARE NOT VERIFIED BY THE PUBLIC WORKS DIRECTOR, AND ARE FURNISHED SOLELY FOR CONTRACTOR'S CONVENIENCE. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT SHALL BE BASED ON BID SCHEDULE ITEMS FOR ACTUAL QUANTITIES PROVIDED AND INSTALLED. THE CONTRACTOR SHALL NOT BE RELIEVED OF HIS RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING WORK QUANTITIES PRIOR TO BIDDING.
5. CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT PERMIT(S) WILL BE REQUIRED FOR ALL OFF-SITE CONSTRUCTION AND CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY.
6. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AT HIS OWN EXPENSE, SUCH PERMITS AS ARE REQUIRED FROM THE APPROPRIATE AGENCIES.
7. THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY.
8. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE AND APPROVAL OF THE PUBLIC WORKS DIRECTOR, AND ARE FURNISHED SOLELY FOR CONTRACTOR'S CONVENIENCE. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT SHALL BE BASED ON BID SCHEDULE ITEMS FOR ACTUAL QUANTITIES PROVIDED AND INSTALLED. THE CONTRACTOR SHALL NOT BE RELIEVED OF HIS RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING WORK QUANTITIES PRIOR TO BIDDING.
9. CIP INSPECTION TO BE DONE BY THE CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT OR THEIR REPRESENTATIVE. PRIVATE DEVELOPMENTS SHALL PROVIDE FOR INDEPENDENT 3RD PARTY INSPECTIONS.
10. CONTRACTOR TO NOTIFY PROJECT ENGINEER 72 HOURS (3 WORKING DAYS) IN ADVANCE OF CONSTRUCTION TO SCHEDULE CONSTRUCTION CONTROL STANDARD.
11. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES, MATERIAL, SIZE & ELEVATIONS BEFORE COMMENCING CONSTRUCTION & ORDERING MATERIALS.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND PIPELINES, TELEPHONE & 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.
13. CONTRACTOR SHALL NOTIFY "BLUE STAKE" AT 1-800-STAKEIT (1-800-782-5348) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
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.
15. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS MUST BE COMPLIED WITH.
16. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS SHALL APPLY WHEN MORE STRINGENT THAN THE MAG OR CITY OF PRESCOTT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
17. 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.
18. 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.
19. ALL WATER LINES & APPURTENANCES SHALL BE PROVIDED WITH TRACE WIRE PER CITY STANDARD DETAIL. TRACE WIRE SHALL BE SUBJECT TO A TRACEABILITY TEST, EASILY ACCESSIBLE, & ANY DEFICIENCIES SHALL BE CORRECTED PRIOR TO PAVING. THE TRACE WIRE SHOULD BE TESTED AND SUBMITTED AS A PACKAGE WITH THE TESTING PACKET.
20. WATER-SEWER SEPARATION SHALL BE PURSUANT TO AAC R-18-5-502C.
21. WATER MAINS SHALL BE SUBJECT TO A PRESSURE & LEAKAGE TEST IN ACCORDANCE WITH AWWA C-600 STANDARD.
22. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH ADEQ ENGINEERING BULLETIN NO. 8 'DISINFECTION OF WATER SYSTEMS'.
23. OPERATION OF VALVES TO BE DONE BY CITY PERSONNEL ONLY.
24. DUCTILE IRON PIPE TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. ALL MATERIALS USED IN THE INSTALLATION OF DUCTILE IRON PIPE SHALL BE PURSUANT TO AAC R-18-4.
19. APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL THE WRITTEN FINAL ACCEPTANCE OF A COMPLETE AND WORKABLE UNIT.
20. THE CITY OF PRESCOTT MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN ITS JUDGEMENT, THE WORK IS UNSATISFACTORY, WORK BEING DONE IS UNAUTHORIZED OR DEFECTIVE, WEATHER CONDITIONS ARE UNSTABLE, OR THERE IS A DANGER TO THE PUBLIC HEALTH AND SAFETY.
21. ALL OBSTRUCTIONS IN THE RIGHT OF WAY SHALL BE REMOVED BEFORE ANY CONSTRUCTION IS PERMITTED.
22. 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 OR PAYMENT WILL BE MADE FOR SUCH REMOVAL ITEMS.
23. CLEARING AND GRUBBING IS CONSIDERED INCIDENTAL TO THE WORK UNLESS SPECIFICALLY IDENTIFIED IN THE BID SCHEDULE AS A SEPARATE MEASUREMENT OF OR PAYMENT FOR CLEARING AND GRUBBING, AND TREE REMOVAL WILL BE MADE THE SITE OF ALL EXCAVATION, EMBANKMENTS, AND FILL AREAS 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 SOILS 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.
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.
25. THE CONTRACTOR SHALL PROVIDE SUITABLE EQUIPMENT ON THE JOBSITE FOR MAINTENANCE DUST CONTROL, AND SHALL CONTROL DUST AS DIRECTED BY THE APPROPRIATE AGENCY.
26. STREET AND TRAFFIC SIGNS SHALL BE RELOCATED BY THE CONTRACTOR IF NECESSARY, AT THE DIRECTION OF THE PUBLIC WORKS DIRECTOR.
27. BACKFILL COMPACTION SHALL BE TYPE 1 (MAG, SECTION 601) UNLESS OTHERWISE NOTED.
28. AGGREGATE BASE COURSE SHALL NOT BE PLACED ON SUBGRADE UNTIL SUBGRADE REQUIREMENTS HAVE BEEN ACHIEVED.
29. NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY PRISM ARE VERIFIED FOR DETAIL CONFORMANCE, COMPLETED AND TESTED (TO INCLUDE BUT NOT LIMITED TO) ANY WATER LINE AIR TESTING, MAIN LINE AND SERVICE LINE PRESSURE, WIRE TESTING, DEFLECTION TESTING AND VERIFICATION OF MANHOLES CONFORMING TO COP DETAIL 420P. WATER TESTING CHLORINATION/DISINFECTION OF MAIN LINE AND SERVICES, PRESSURE TESTING, TRACE WIRE TESTING AND VERIFICATION OF VALVE BOXES CONFORMING TO COP DETAIL 391P.
30. ALL ASPHALT CONCRETE PAVEMENT SHALL BE PER APPLICABLE MAG SPECIFICATIONS AS AMENDED BY THE CITY OF PRESCOTT AND/OR PER MIX DESIGN SPECIFICATIONS SUBMITTED TO THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
31. ALL UTILITY FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC. SHALL BE ADJUSTED TO FINISH GRADE, INCLUDING FINAL PLACEMENT OF SURFACE COURSE OF PAVING AS PER CONTRACTOR PER COP STANDARD DETAILS.
32. ACCEPTANCE OF THE COMPLETED PAVING STRUCTURES WILL NOT BE GIVEN UNTIL REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE CITY.
33. ALL CONCRETE SHALL TO BE AT LEAST 3000 PSI CLASS "A" PER MAG STANDARDS UNLESS OTHERWISE SPECIFIED ON THE PLANS, SPECIFICATIONS, OR IN STANDARD DETAILS.
34. EDGES OF CONCRETE STRUCTURES IN WALK & CURB SHALL HAVE A RADIUS SPECIFIED ON THE PLANS.
35. CONCRETE SURFACES TO HAVE A BROOM FINISH UNLESS OTHERWISE NOTED ON THE PLANS.
36. ALL EXPANSION JOINTS TO BE SEALED WITH A EXPANSION JOINT, PRE-FORMED JOINT FILLER MATERIAL, IN ACCORDANCE WITH MAG SECTION 729.
37. DRIVEWAY ENTRANCES WILL BE LOCATED AS SPECIFIED ON THE PLANS UNLESS MODIFIED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAY ENTRANCES SHALL BE CONSTRUCTED OVER 6" THICK AGGREGATE BASE COURSE PER MAG SPECIFICATION 702 AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY, UNLESS OTHERWISE NOTED.
38. ALL DISTURBED FENCES SHALL BE REPLACED IN KIND. CONTRACTOR SHALL EXTEND FENCE REPLACEMENT TO THE CLOSEST UPRIGHT SUPPORT NECESSARY FOR STABILITY.
39. MAILBOXES SHALL BE REMOVED AND REINSTALLED AS DIRECTED BY THE U.S. POSTAL SERVICE AND THE CITY OF PRESCOTT TEMPORARY LOCATIONS SHALL BE PER U.S.P.S.
40. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS.
41. THE CONTRACTOR SHALL WARRANT ALL WORK FOR A MINIMUM TWO YEAR PERIOD AFTER FORMAL ACCEPTANCE OF THE WORK BY THE CITY.

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

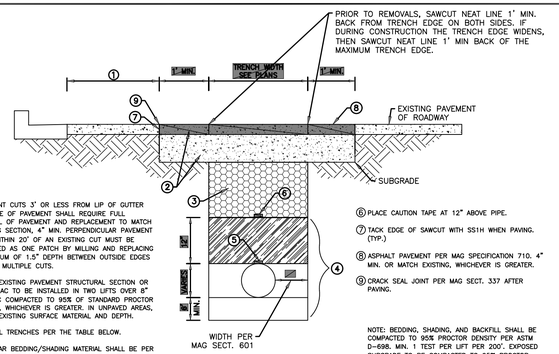
1. ALL GRADING SHALL CONFORM TO THE CURRENT CITY ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE, AND CITY OF PRESCOTT LAND DEVELOPMENT CODE (REFERENCE CITY OF PRESCOTT STANDARD SECTIONS).
2. ALL PROVISIONS OF THE PRELIMINARY SOILS REPORT PREPARED BY ENGINEERING & TESTING CONSULTANTS INC., DATED DECEMBER 7, 2021 SHALL BE COMPLIED WITH DURING OPERATIONS.
3. THIS PLAN IS FOR GRADING PURPOSES ONLY. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF DRIVEWAY LOCATIONS OR SIZES, PARKING LOT LAYOUT, SEWER AND WATER FACILITIES, BUILDING LOCATIONS, OFF-SITE DRAINAGE FACILITIES OR OTHER ITEMS NOT RELATED DIRECTLY TO THE BASIC GRADING OPERATION.
4. CERTIFICATION FROM THE REGISTERED CIVIL ENGINEER AND SOILS/GEOLOGICAL ENGINEER IS REQUIRED THAT THE GRADING HAS BEEN COMPLETED TO THE APPROVED PLAN, AND A COMPACTION REPORT FROM THE SOILS ENGINEER ON ANY AREAS WHERE FILL WAS PLACED. NO BUILDING PERMITS SHALL BE ISSUED PRIOR TO BUILDING PERMITS BEING ISSUED.
5. PARTIES NAMED ON ADEQ'S NOTICE OF INTENT (N.O.I.) ARE RESPONSIBLE FOR EROSION, DUST, MUD, SILT, DEBRIS, AND TEMPORARY DRAINAGE CONTROL DURING GRADING OPERATIONS AND IMPROVEMENTS. ANY ITEMS DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND OR BETTER AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL PROVIDE SUITABLE EQUIPMENT ON THE JOBSITE FOR MAINTENANCE DUST CONTROL, AND SHALL CONTROL DUST AS DIRECTED BY THE APPROPRIATE AGENCY.
7. ANY ON-SITE RETAINING WALLS WILL REQUIRE APPROVAL AS PART OF THESE PLANS. ANY NECESSARY RETAINING WALLS ON THE PERIMETER OF THIS SITE MAY BE REQUIRED TO BE IN PLACE, AND/OR PERMITTED BY THE CITY BUILDING DEPARTMENT PRIOR TO THE START OF GRADING. A SEPARATE PLAN WITH REQUIRED STRUCTURAL CALCULATIONS MAY BE REQUESTED FOR RETAINING WALLS.
8. ANY INFRASTRUCTURE CONSTRUCTED IN THE PUBLIC RIGHT OF WAY WILL REQUIRE SEPARATE PLAN APPROVAL AND INSPECTION FROM THE CITY ENGINEER.
9. ANY WALLS, FENCES, STRUCTURES AND/OR APPURTENANCES ADJACENT TO THIS PROJECT SHALL BE PROTECTED IN PLACE. IF GRADING OPERATIONS DAMAGE OR ADVERSELY AFFECT SAID ITEMS IN ANY WAY, THE CONTRACTOR AND DEVELOPER IS RESPONSIBLE FOR WORKING OUT AN ACCEPTABLE SOLUTION TO THE SATISFACTION OF THE AFFECTED PROPERTY OWNER.
10. THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR ENSURING THAT RETAINING WALLS DO NOT INTERFERE WITH PROVISION OF UTILITIES. WALLS MUST BE CONSTRUCTED ON SITE AND OUTSIDE OF ANY PUBLIC UTILITY EASEMENTS, OR MUST BE DESIGNED TO ACCOMMODATE THEM.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT COMPACTION HAS BEEN ATTAINED ON THE ENTIRE GRADING SITE IN ACCORDANCE WITH THE GENERAL ENGINEERING NOTES. PLACEMENT OF SUB-NOTCH FILL MATERIALS AND ON ALL FILL SLOPES, AND SHALL BE CERTIFIED BY THE SOILS ENGINEER.
12. CITY APPROVAL PLANS DOES NOT RELIEVE THE DEVELOPER/OWNER FROM THE RESPONSIBILITY FOR CORRECTION OR ERROR OR OMISSION DISCOVERED DURING CONSTRUCTION. ANY REQUIRED CHANGES OR REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.
13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CALL THE CITY ENGINEER'S OFFICE AT (928) 777-1164 FOR ANY REQUIRED CIVIL INSPECTION 24 HOURS PRIOR TO PERFORMING ANY WORK. WORK PERFORMED WITHOUT CALLING FOR INSPECTION MAY BE REJECTED AND, IF REJECTED, SHALL BE REMOVED SOLELY AT THE CONTRACTOR'S EXPENSE.
14. NO GRADING SHALL COMMENCE WITHOUT OBTAINING A GRADING PERMIT AND NOTIFYING THE CITY OF PRESCOTT'S GRADING INSPECTOR TO SCHEDULE A PREGRADING MEETING TWO WORKING DAYS PRIOR TO THE START OF WORK.
15. PRIOR TO THE START OF GRADING ALL SWPPP MEASURES SHALL BE IN PLACE, ALL DEBRIS, INCLUDING EXISTING STRUCTURES, FOOTINGS, FOUNDATIONS AND RUBBLE SHALL BE REMOVED FROM THE SITE TO THE SATISFACTION OF THE SOILS ENGINEER.
16. AFTER REMOVAL OF DEBRIS, ANY EXISTING FILL OR DISTURBED NATURAL SOILS SHALL BE EXCAVATED TO THE SATISFACTION OF THE SOILS ENGINEER.
17. THE EXPOSED SOILS SHALL THEN BE INSPECTED BY THE SOILS ENGINEER, AND ANY ADDITIONAL OVER-EXCAVATION SHALL THEN BE MADE IN ACCORDANCE WITH THE SOILS ENGINEER'S RECOMMENDATIONS AND AS CONTAINED IN THE SOIL'S REPORT.
17. THE EXPOSED SOILS SHALL THEN BE SCARIFIED TO PROVIDE A BOND WITH NEW FILL, BROUGHT TO PROPER MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF THE MAXIMUM DENSITY, AS DETERMINED BY ASTM D1557-78 OR EQUIVALENT. COMPACTION SHALL BE OBTAINED BY METHODS SPECIFIED BY THE SOILS ENGINEER. ROAD PRISM SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% STANDARD OR MODIFIED PER SOILS ENGINEER'S RECOMMENDATIONS.
18. THE SOILS AND DESIGN ENGINEER OF RECORD SHALL ALSO BE RESPONSIBLE TO INSPECT, VERIFY AND REPORT THAT PROPER COMPACTION HAS BEEN OBTAINED BY EARTHWORK CONTRACTOR OR SUBCONTRACTOR AND PRIVATE UTILITY FRANCHISES CONCERNING UTILITY TRENCH BACKFILL, TO INCLUDE ELECTRICAL, GAS, CABLE, AND TELEPHONE AND LANDSCAPE IRRIGATION LINES. ADDITIONALLY, WATER AND SEWER LINES TO BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH GENERAL ENGINEERING REQUIREMENTS SECTION AND DETAIL.
19. AN AS-GRADED PLAT OR SURVEY PLAN SHALL BE PREPARED FOR THE CERTIFICATION OF COMPLIANCE FORMS FOR SAID GRADING PLAN WITH THE PROPER STAMPS AND SIGNATURES ARE TO BE SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FINAL GRADING INSPECTION. BUILDING PAD CERTIFICATION SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT WHEN REQUESTED.
20. NO FILL SHALL BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS, AND INSTALLATION OF SUBDRAINS (IF ANY) HAVE BEEN INSPECTED AND APPROVED BY THE SOILS ENGINEER.
21. ENGINEER MUST SET GRADE STAKES FOR ALL DRAINAGE DEVICES AND OBTAIN INSPECTION BEFORE POURING.
22. GRADING SHALL NOT BE STARTED WITHOUT FIRST NOTIFYING CITY PUBLIC WORKS INSPECTION DEPARTMENT AT LEAST ONE GRADING MEETING ON THE SITE IS REQUIRED BEFORE BEGINNING GRADING ACTIVITIES BY THE FOLLOWING: CONTRACTOR, DESIGNER, GRADING/EARTHWORK CONTRACTOR, SOILS ENGINEER, GEOLOGIST, PUBLIC WORKS INSPECTOR, AND CITY ENGINEER. ACKNOWLEDGMENT OF PALEONTOLOGIST. THE REQUIRED INSPECTIONS FOR GRADING WILL BE EXPLAINED AT THE PRE-CONSTRUCTION MEETING.
23. ALL EXISTING FILLS SHALL BE APPROVED AND CERTIFIED BY THE SOILS ENGINEER OR REMOVED PRIOR TO PLACING ADDITIONAL FILLS.
24. ALL TRENCH BACKFILLS SHALL BE TESTED AND APPROVED BY THE SOIL ENGINEER.
25. THE COMPACTION REPORT AND APPROVAL FROM THE SOIL ENGINEER SHALL INDICATE THE TYPE OF FIELD TESTING PERFORMED. EACH TEST SHALL BE IDENTIFIED WITH THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND CONE OR NUCLEAR GAUGE, AND SHALL BE SO NOTED FOR EACH TEST.
26. EXPORT SOIL MUST BE TRANSPORTED TO A LEGAL DUMP OR TO A PERMITTED SITE SHOWN CLEARLY ON APPROVED PLANS.
27. ALL EXISTING DRAINAGE COURSES THROUGH THIS SITE SHALL REMAIN OPEN UNTIL FACILITIES TO HANDLE STORM WATER ARE APPROVED AND FUNCTIONAL; HOWEVER, IN ANY CASE, THE PERMITTEE SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERNS.

COP STANDARD DETAIL	GRADING AND DRAINAGE NOTES	CITY ENGINEER	REVISED: 07/16	DETAIL No. 105P-1

1. A COPY OF THE APPROVED GRADING AND DRAINAGE PLAN FOR THIS PROJECT AND EROSION AND SEDIMENT CONTROL (ESC) PLAN OR 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.
2. THE ESC/SWPPP AND RELATED RECORDS MUST BE MADE AVAILABLE UPON REQUEST TO ADEQ AND THE CITY OF PRESCOTT.
3. 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.
4. THE SCHEMATIC EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE A MINIMUM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEANS TO PROTECT EXISTING FACILITIES AND ADJACENT PROPERTIES FROM NOISE, DUST, AND STORM WATER RUNOFF DURING CONSTRUCTION IN THE MANNER AND TIMES REQUIRED BY LAW, 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.
5. CONTRACTOR SHALL PERMANENTLY STABILIZE ALL DISTURBED SLOPES AS STATED ON APPROVED CONSTRUCTION PLANS. ALL EROSION CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL EXPOSED SLOPES HAVE BEEN PERMANENTLY STABILIZED.
6. CONTRACTOR SHALL TAKE MEASURES TO PREVENT OR MINIMIZE THE GENERATION, EMISSION AND/OR TRANSPORT OF FUGITIVE DUST FROM CONSTRUCTION ACTIVITIES.
7. THIS PLAN SHALL BE IN EFFECT UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED, TRANSFERRED TO NEW OWNERSHIP, OR DEVELOPED UNDER FUTURE PLANS WITH A NEW NOTICE OF INTENT (NOI), SWPPP, AND PERMIT; ONCE THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS MET THE FINAL STABILIZATION REQUIREMENTS OF THE PERMIT, THE PERMITTEE'S AUTHORIZED SITE REPRESENTATIVE MAY FILE A NOTICE OR TERMINATION (NOT) WITH ADEQ, WITH A COPY SUBMITTED TO THE CITY OF PRESCOTT ENGINEERING DIVISION TO TERMINATE COVERAGE UNDER THE PERMIT.
8. A CONCRETE WASHOUT SHALL BE INSTALLED FOR ALL PROJECTS THAT PROPOSE CONCRETE TO BE MIXED ON SITE OR BE DELIVERED FROM A BATCH PLANT; THE CONCRETE WASHOUT SHALL BE LOCATED A MINIMUM OF FIFTY (50) FEET FROM ANY DRAINAGE INFRASTRUCTURE OR NATURAL DRAINAGE FEATURES OR WATER BODIES AND INCORPORATE AN IMPERMEABLE LINER TO CONTAIN THE REQUIRED VOLUME. ALL DRIED CONCRETE WASTE SHALL BE BROKEN INTO MANAGEABLE PIECES AND DISPOSED OF OFF-SITE AT AN APPROVED FACILITY.

COP STANDARD DETAIL	EROSION AND SEDIMENTATION CONTROL NOTES	CITY ENGINEER	REVISED: 07/16	DETAIL No. 105P-2

1. ALL WORK SHALL CONFORM TO MARICOPA ASSOCIATION OF GOVERNMENTS (MAG), & CITY OF PRESCOTT (COP) CONSTRUCTION STANDARDS & SPECIFICATIONS, WHICH ARE ON FILE IN THE OFFICE OF THE CITY ENGINEER.
2. ALL EXISTING FRAMES, COVERS, VALVE BOXES, & MANHOLES SHALL BE EITHER REPLACED OR ADJUSTED TO FINISH GRADE DEPENDING ON PLAN CALL OUT UPON COMPLETION OF PAVING, UTILITY, OR RELATED CONSTRUCTION.
3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE PUBLIC WORKS UTILITIES DIRECTOR.
4. ACCEPTANCE OF THE COMPLETED WORK WILL NOT BE GIVEN UNTIL 3 MIL MYLAR & 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.
5. CITY OF PRESCOTT PUBLIC WORKS UTILITIES SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY WORK.
6. ALL WORK & MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
7. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF THE CITY INSPECTOR OR HIS REPRESENTATIVE IS SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEN, EQUIPMENT, & MATERIAL ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO COMPLY WITH SPECIFICATIONS & TO COMPLETE THE WORK.
9. CIP INSPECTION TO BE DONE BY THE CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT OR THEIR REPRESENTATIVE. PRIVATE DEVELOPMENTS SHALL PROVIDE FOR INDEPENDENT 3RD PARTY INSPECTIONS.
10. CONTRACTOR TO NOTIFY PROJECT ENGINEER 72 HOURS (3 WORKING DAYS) IN ADVANCE OF CONSTRUCTION TO SCHEDULE CONSTRUCTION CONTROL STANDARD.
11. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES, MATERIAL, SIZE & ELEVATIONS BEFORE COMMENCING CONSTRUCTION & ORDERING MATERIALS.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND PIPELINES, TELEPHONE & 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.
13. CONTRACTOR SHALL NOTIFY "BLUE STAKE" AT 1-800-STAKEIT (1-800-782-5348) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
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.
15. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS MUST BE COMPLIED WITH.
16. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS SHALL APPLY WHEN MORE STRINGENT THAN THE MAG OR CITY OF PRESCOTT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. MORE SPECIFICALLY WHERE THEY PERTAIN TO MAXIMUM ALLOWABLE SEWER LINE/PRESSURE SEWER LINE EXFILTRATION-INFILTRATION RATES.
17. 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.
18. 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.
19. WATER-SEWER SEPARATION SHALL BE PURSUANT TO AAC R-18-5-502C.
20. ALL TRENCHES & BEDDING SHALL BE PER COP DETAIL 200P & TECHNICAL SPECIFICATIONS.
21. ALL REVISIONS TO ORIGINAL PLANS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO CONSTRUCTION. ANY UNAPPROVED REVISIONS ARE SUBJECT TO REMOVAL & REPLACEMENT AT CONTRACTOR'S EXPENSE.
22. SEWER FORCE MAIN LINES SHALL BE DESIGNED AND CONSTRUCTED OF A MATERIAL SUITABLE FOR SANITARY SEWER PRESSURE PIPE AS APPROVED BY THE CITY ENGINEER. SEWER LINES SHALL BE PRESSURE TESTED TO A MINIMUM OF 50 PSI ABOVE DESIGN WORKING PRESSURE AT THE LOWEST POINT IN THE SYSTEM FOR A MINIMUM OF 4 HOURS IN ACCORDANCE WITH AAC R18-9.
23. SEWER LINE LOW PRESSURE AIR TESTS SHALL BE DONE ON 100% OF ALL LINES AFTER PLACEMENT OF BACKFILL TO PAVEMENT SUBGRADE. TEST EACH SEGMENT OF THE SEWER LINE FOR LEAKAGE USING THE APPLICABLE METHOD BELOW AND RECORD THE RESULTS:
    23A. "STANDARD TEST METHOD FOR INSTALLATION OF ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR, F1417-92(1998)" PUBLISHED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS.
24. SEWER MANHOLES EXFILTRATION TESTS SHALL BE DONE ON 100% OF ALL MANHOLES. VACUUM TESTING IN ACCORDANCE WITH CITY STANDARDS MAY BE USED IN LIEU OF EXFILTRATION TEST. THE CONTRACTOR SHALL TEST EACH MANHOLE USING ONE OF THE FOLLOWING TEST PROTOCOLS:
    24A. WATER EXFILTRATION TESTING BY FILLING THE MANHOLE WITH WATER. THE CONTRACTOR SHALL ENSURE THAT THE DROP IN WATER LEVEL FOLLOWING PRESSURIZING DOES NOT EXCEED 0.00034 OF THE TOTAL MANHOLE VOLUME PER HOUR.
    24B. MANHOLE AIR PRESSURE TESTING USING THE "STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY NEGATIVE AIR PRESSURE" (VACUUM) TEST, C1244-93(2000), 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

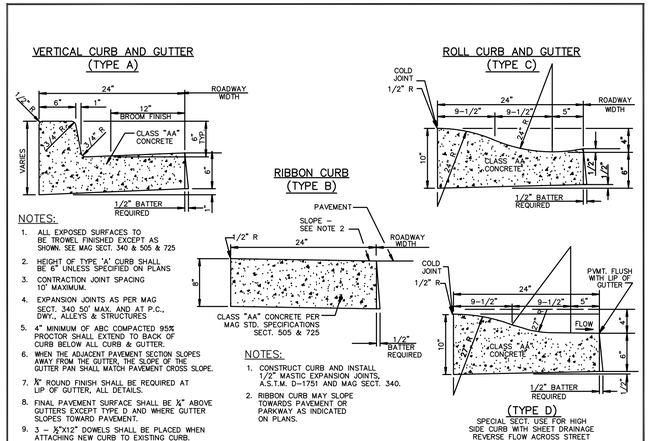


1. PAVEMENT CUTS 3' OR LESS FROM LIP OF GUTTER OR EDGE OF PAVEMENT SHALL REQUIRE FULL REMOVAL OF PAVEMENT AND REPLACEMENT TO MATCH EXISTING SECTION, 4" MIN. PERPENDICULAR PAVEMENT CUTS WITHIN 20' OF AN EXISTING CUT MUST BE REPLACED AS ONE PATCH BY MILLING AND REPLACING A MINIMUM OF 1.5" DEPTH BETWEEN OUTSIDE EDGES OF THE MULTIPLE CUTS.
2. MATCH EXISTING PAVEMENT STRUCTURAL SECTION OR 4" MIN AC TO BE INSTALLED IN TWO LIFTS OVER 8" MIN ABC COMPACTED TO 95% OF STANDARD PROCTOR DENSITY, WHICHEVER IS GREATER. IN UNPAVED AREAS, MATCH EXISTING SURFACE MATERIAL AND DEPTH.
3. BACKFILL TRENCHES PER THE TABLE BELOW.
4. GRANULAR BEDDING/SHADING MATERIAL SHALL BE PER MAG SECT. 601 WITH 100% PASSING 1" SIEVE, MAXIMUM 10 P.I. THE COMBINATION OF PERCENT MATERIAL PASSING THROUGH #200 PLUS P.I. SHALL NOT EXCEED 22.
5. INSTALL TRACER WIRE PER QUAD CITY STANDARD DETAIL 319Q-1 ATTACHED TO TOP OF PIPE WITH 10 MIL PVC TAPE ON 6' CENTERS ON ALL AGENCY UTILITIES EXCEPT CITY OF PRESCOTT GRAVITY SEWER MAINS.
6. PLACE CAUTION TAPE AT 12" ABOVE PIPE.
7. TACK EDGE OF SAWCUT WITH SS1H WHEN PAVING. (TYP.)
8. ASPHALT PAVEMENT PER MAG SPECIFICATION 710. 4" MIN. OR MATCH EXISTING, WHICHEVER IS GREATER.
9. CRACK SEAL JOINT PER MAG SECT. 337 AFTER PAVING.

NOTE: BEDDING, SHADING, AND BACKFILL SHALL BE COMPACTED TO 95% PROCTOR DENSITY PER ASTM D-698. MIN. 1 TEST PER LIFT PER 200'. EXPOSED SUBGRADE TO BE COMPACTED TO 95% PROCTOR DENSITY PER ASTM D-698. PAVED SURFACE TO BE COMPACTED TO 95% MARSHALL DENSITY PER ASTM D-6927-15.

	Trench to C/L	
Street Surface	Parallel	Perpendicular
Existing Paved	ABC Per MAG 702	¾ Sack CLSM per MAG 728
Unpaved Surface or New Street Construction	3" Minus Screened Native Material	

QUAD CITY STANDARD DETAIL	TRENCH BACKFILL AND SURFACE REPLACEMENT	REVISED 4/2018	DETAIL No. 200Q-1



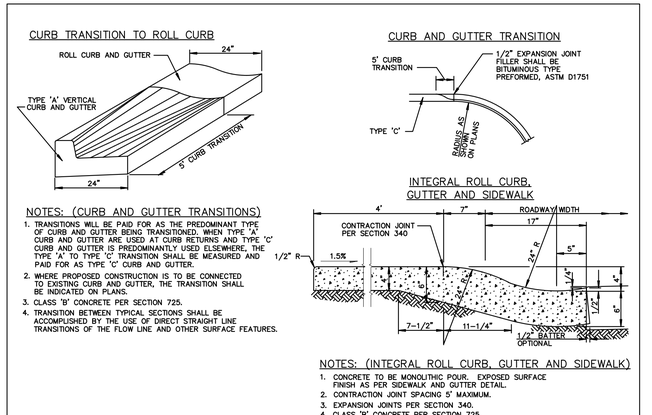
NOTES:

1. ALL EXPOSED SURFACES TO BE TROWEL FINISHED EXCEPT AS SHOWN. SEE MAG SECT. 340 & 505 & 725
2. HEIGHT OF TYPE 'A' CURB SHALL BE 6" UNLESS SPECIFIED ON PLANS
3. CONTRACTION JOINT SPACING 10' MAXIMUM.
4. EXPANSION JOINTS AS PER MAG SECT. 340 50' MAX. AND AT P.C., DWY., ALLEYS & STRUCTURES
5. 4" MINIMUM OF ABC COMPACTED 95% PROCTOR SHALL EXTEND TO BACK OF CURB BELOW ALL CURB & GUTTER.
6. WHEN THE ADJACENT PAVEMENT SECTION SLOPES AWAY FROM THE GUTTER, THE SLOPE OF THE GUTTER PAN SHALL MATCH PAVEMENT CROSS SLOPE.
7. ¼" ROUND FINISH SHALL BE REQUIRED AT LIP OF GUTTER, ALL DETAILS.
8. FINAL PAVEMENT SURFACE SHALL BE ¼" ABOVE GUTTERS EXCEPT TYPE D AND WHERE GUTTER SLOPES TOWARD PAVEMENT.
9. 3 – ⅝"x12" DOWELS SHALL BE PLACED WHEN ATTACHING NEW CURB TO EXISTING CURB.

NOTES:

1. CONSTRUCT CURB AND INSTALL 1/2" MASTIC EXPANSION JOINTS, A.S.T.M. D-1751 AND MAG SECT. 340.
2. RIBBON CURB MAY SLOPE TOWARDS PAVEMENT OR PARKWAY AS INDICATED ON PLANS.

QUAD CITY STANDARD DETAIL	CURB AND GUTTER TYPES A, B, C AND D	REVISED 4/2018	DETAIL No. 220Q-1



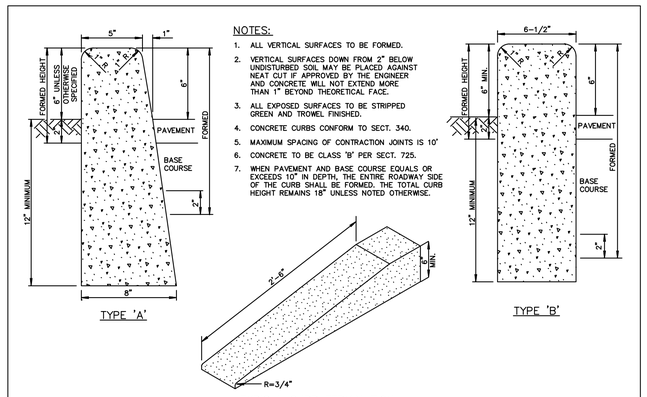
NOTES: (CURB AND GUTTER TRANSITIONS)

1. TRANSITIONS WILL BE PAID FOR AS THE PREDOMINANT TYPE OF CURB AND GUTTER BEING TRANSITIONED. WHEN TYPE 'A' CURB AND GUTTER ARE USED AT CURB RETURNS AND TYPE 'C' CURB AND GUTTER IS PREDOMINANTLY USED ELSEWHERE, THE TYPE 'A' TO TYPE 'C' TRANSITION SHALL BE MEASURED AND PAID FOR AS TYPE 'C' CURB AND GUTTER.
2. WHERE PROPOSED CONSTRUCTION IS TO BE CONNECTED TO EXISTING CURB AND GUTTER, THE TRANSITION SHALL BE INDICATED ON PLANS.
3. CLASS 'B' CONCRETE PER SECTION 725.
4. TRANSITION BETWEEN TYPICAL SECTIONS SHALL BE ACCOMPLISHED BY THE USE OF DIRECT STRAIGHT LINE TRANSITIONS OF THE FLOW LINE AND OTHER SURFACE FEATURES.

NOTES: (INTEGRAL ROLL CURB, GUTTER AND SIDEWALK)

1. CONCRETE TO BE MONOLITHIC POUR. EXPOSED SURFACE FINISH AS PER SIDEWALK AND GUTTER DETAIL.
2. CONTRACTION JOINT SPACING 5' MAXIMUM.
3. EXPANSION JOINTS PER SECTION 340.
4. CLASS 'B' CONCRETE PER SECTION 725.

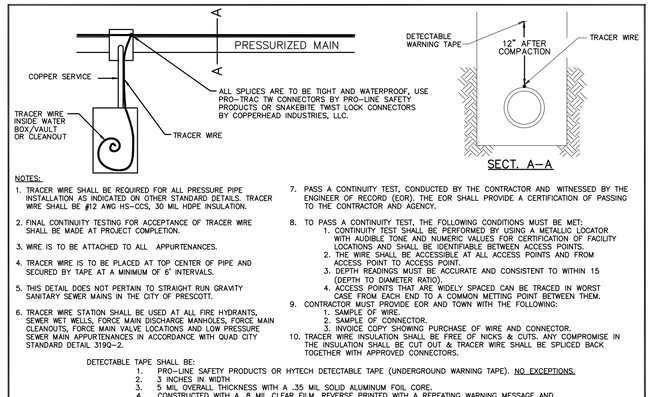
DETAIL NO. 221	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	CURB AND GUTTER TRANSITION AND INTEGRAL ROLL CURB, GUTTER AND SIDEWALK	DRAFT 01-01-2018	DETAIL NO. 221



NOTES:

1. ALL VERTICAL SURFACES TO BE FORMED.
2. VERTICAL SURFACES DOWN FROM 2" BELOW UNDISTURBED SOIL MAY BE PLACED AGAINST NEAT CUT IF APPROVED BY THE ENGINEER AND CONCRETE WILL NOT EXTEND MORE THAN 1" BEYOND THEORETICAL FACE.
3. ALL EXPOSED SURFACES TO BE STRIPPED GREEN AND TROWEL FINISHED.
4. CONCRETE CURBS CONFORM TO SECT. 340.
5. MAXIMUM SPACING OF CONTRACTION JOINTS IS 10'
6. CONCRETE TO BE CLASS 'B' PER SECT. 725.
7. WHEN PAVEMENT AND BASE COURSE EQUALS OR EXCEEDS 10" IN DEPTH, THE ENTIRE ROADWAY SIDE OF THE CURB SHALL BE FORMED. THE TOTAL CURB HEIGHT REMAINS 18" UNLESS NOTED OTHERWISE.

DETAIL NO. 222	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	SINGLE CURB – TYPES A, B AND TERMINATION	REVISED 01-01-2008	DETAIL NO. 222



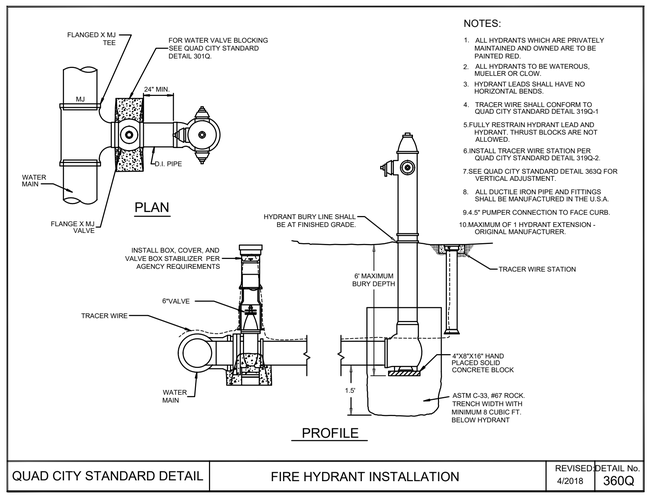
NOTES:

1. TRACER WIRE SHALL BE REQUIRED FOR ALL PRESSURE PIPE INSTALLATION AS INDICATED ON OTHER STANDARD DETAILS. TRACER WIRE SHALL BE #12 AWG HS-CCS, 30 MIL HDPE INSULATION.
2. FINAL CONTINUITY TESTING FOR ACCEPTANCE OF TRACER WIRE SHALL BE MADE AT PROJECT COMPLETION.
3. WIRE IS TO BE ATTACHED TO ALL APPURTENANCES.
4. TRACER WIRE IS TO BE PLACED AT TOP CENTER OF PIPE AND SECURED BY TAPE AT A MINIMUM OF 6' INTERVALS.
5. THIS DETAIL DOES NOT PERTAIN TO STRAIGHT RUN GRAVITY SANITARY SEWER MAINS IN THE CITY OF PRESCOTT.
6. TRACER WIRE STATION SHALL BE USED AT ALL FIRE HYDRANTS, SEWER WET WELLS, FORCE MAIN DISCHARGE MANHOLES, FORCE MAIN CLEANOUTS, FORCE MAIN VALVE LOCATIONS AND LOW PRESSURE SEWER MAIN APPURTENANCES IN ACCORDANCE WITH QUAD CITY STANDARD DETAIL 319Q-2.
7. PASS A CONTINUITY TEST, CONDUCTED BY THE CONTRACTOR AND WITNESSED BY THE ENGINEER OF RECORD (EOR). THE EOR SHALL PROVIDE A CERTIFICATION OF PASSING TO THE CONTRACTOR AND AGENCY.
8. TO PASS A CONTINUITY TEST, THE FOLLOWING CONDITIONS MUST BE MET:
   1. CONTINUITY TEST SHALL BE PERFORMED BY USING A METALLIC LOCATOR WITH AUDIBLE TONE AND NUMERIC VALUES FOR CERTIFICATION OF FACILITY LOCATIONS AND SHALL BE IDENTIFIABLE BETWEEN ACCESS POINTS.
   2. THE WIRE SHALL BE ACCESSIBLE AT ALL ACCESS POINTS AND FROM ACCESS POINT TO ACCESS POINT.
   3. DEPTH READINGS MUST BE ACCURATE AND CONSISTENT TO WITHIN 15 (DEPTH TO DIAMETER RATIO).
   4. ACCESS POINTS THAT ARE WIDELY SPACED CAN BE TRACED IN WORST CASE FROM EACH END TO A COMMON METTING POINT BETWEEN THEM.
9. CONTRACTOR MUST PROVIDE EOR AND TOWN WITH THE FOLLOWING:
   1. SAMPLE OF WIRE.
   2. SAMPLE OF CONNECTOR.
   3. INVOICE COPY SHOWING PURCHASE OF WIRE AND CONNECTOR.
10. TRACER WIRE INSULATION SHALL BE FREE OF NICKS & CUTS. ANY COMPROMISE IN THE INSULATION SHALL BE CUT OUT & TRACER WIRE SHALL BE SPLICED BACK TOGETHER WITH APPROVED CONNECTORS.

DETECTABLE TAPE SHALL BE:

1. PRO-LINE SAFETY PRODUCTS OR HYTECH DETECTABLE TAPE (UNDERGROUND WARNING TAPE). NO EXCEPTIONS.
2. 3 INCHES IN WIDTH
3. 5 MIL OVERALL THICKNESS WITH A .35 MIL SOLID ALUMINUM FOIL CORE.
4. CONSTRUCTED WITH A .8 MIL CLEAR FILM, REVERSE PRINTED WITH A REPEATING WARNING MESSAGE AND LAMINATE TO ALUMINUM FOIL WITH A 3.75 MIL CLEAR FILM BACKING.
5. LETTERED WITH A MINIMUM OF 1" INCH.
6. COLOR CODED FOR SPECIFIC UTILITY. WATER – BLUE, SANITARY SEWER – GREEN, RECLAIMED WATER – PURPLE IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.
7. CONTRACTOR MUST PROVIDE EOR AND AGENCY WITH THE FOLLOWING:
   1. SAMPLE OF TAPE.
   2. INVOICE COPY SHOWING PURCHASE OF WIRE AND CONNECTOR.

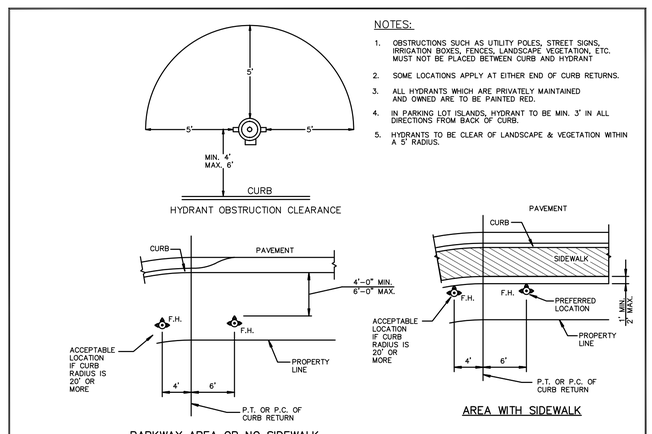
QUAD CITY STANDARD DETAIL	TRACER WIRE AND DETECTABLE WARNING TAPE	REVISED 4/2018	DETAIL No. 319Q-1



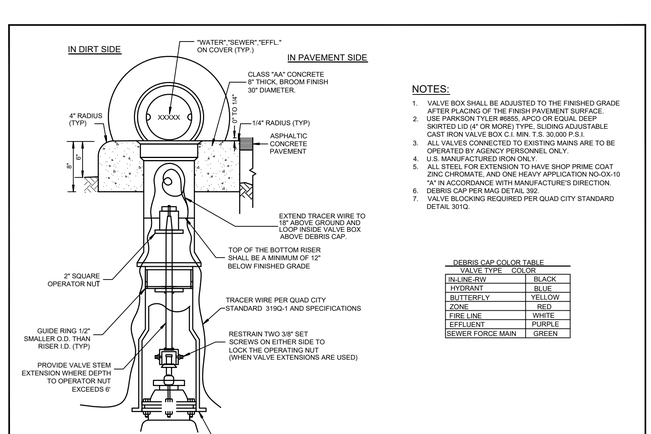
NOTES:

1. ALL HYDRANTS WHICH ARE PRIVATELY MAINTAINED AND OWNED ARE TO BE PAINTED RED.
2. ALL HYDRANTS TO BE WATEROUS, MUELLER OR CLOW.
3. HYDRANT LEADS SHALL HAVE NO HORIZONTAL BENDS.
4. TRACER WIRE SHALL CONFORM TO QUAD CITY STANDARD DETAIL 319Q-1
5. FULLY RESTRAIN HYDRANT LEAD AND HYDRANT. THRUST BLOCKS ARE NOT ALLOWED.
6. INSTALL TRACER WIRE STATION PER QUAD CITY STANDARD DETAIL 319Q-2.
7. SEE QUAD CITY STANDARD DETAIL 363Q FOR VERTICAL ADJUSTMENT.
8. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE U.S.A.
9. 4.5" PUMPER CONNECTION TO FACE CURB.
10. MAXIMUM OF 1 HYDRANT EXTENSION - ORIGINAL MANUFACTURER.

QUAD CITY STANDARD DETAIL	FIRE HYDRANT INSTALLATION	REVISED 4/2018	DETAIL No. 360Q



QUAD CITY STANDARD DETAIL	LOCATIONS FOR NEW FIRE HYDRANTS	REVISED 4/2018	DETAIL No. 362Q



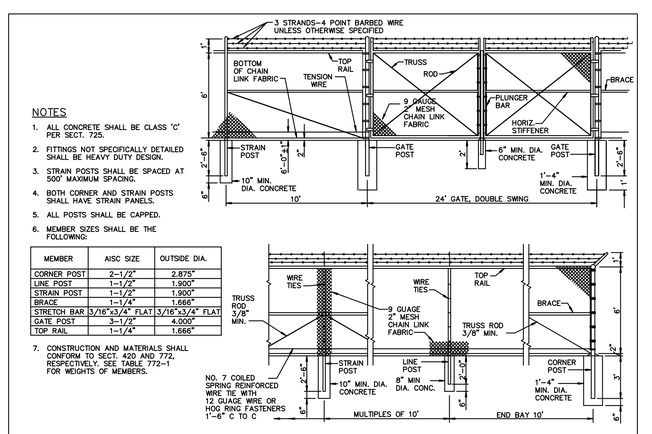
NOTES:

1. VALVE BOX SHALL BE ADJUSTED TO THE FINISHED GRADE AFTER PLACING OF THE FINISH PAVEMENT SURFACE.
2. USE PARKSON TYLER #6855, APCO OR EQUAL DEEP SKIRTED LID (4" OR MORE) TYPE, SLIDING ADJUSTABLE CAST IRON VALVE BOX C.I. MIN. T.S. 30,000 P.S.I.
3. ALL VALVES CONNECTED TO EXISTING MAINS ARE TO BE OPERATED BY AGENCY PERSONNEL ONLY.
4. U.S. MANUFACTURED IRON ONLY.
5. ALL STEEL FOR EXTENSION TO HAVE SHOP PRIME COAT ZINC CHROMATE, AND ONE HEAVY APPLICATION NO-OX-10 "A" IN ACCORDANCE WITH MANUFACTURE'S DIRECTION.
6. DEBRIS CAP PER MAG DETAIL 392.
7. VALVE BLOCKING REQUIRED PER QUAD CITY STANDARD DETAIL 301Q

DEBRIS CAP COLOR TABLE

VALVE TYPE	COLOR
IN-LINE-RW	BLACK
HYDRANT	BLUE
BUTTERFLY	YELLOW
ZONE	RED
FIRE LINE	WHITE
EFFLUENT	PURPLE
SEWER FORCE MAIN	GREEN

QUAD CITY STANDARD DETAIL	VALVE BOX	REVISED 4/2018	DETAIL No. 391Q



NOTES

1. ALL CONCRETE SHALL BE CLASS 'C' PER SECT. 725.
2. FITTINGS NOT SPECIFICALLY DETAILED SHALL BE HEAVY DUTY DESIGN.
3. STRAIN POSTS SHALL BE SPACED AT 500' MAXIMUM SPACING.
4. BOTH CORNER AND STRAIN POSTS SHALL HAVE STRAIN PANELS.
5. ALL POSTS SHALL BE CAPPED.
6. MEMBER SIZES SHALL BE THE FOLLOWING:

MEMBER	AISC SIZE	OUTSIDE DIA.
CORNER POST	2–1/2"	2.875"
LINE POST	1–1/2"	1.900"
STRAIN POST	1–1/2"	1.900"
BRACE	1–1/4"	1.666"
STRETCH BAR	3/16"x3/4" FLAT	3/16"x3/4" FLAT
GATE POST	3–1/2"	4.000"
TOP RAIL	1–1/4"	1.666"

7. CONSTRUCTION AND MATERIALS SHALL CONFORM TO SECT. 420 AND 772, RESPECTIVELY. SEE TABLE 772–1 FOR WEIGHTS OF MEMBERS.

DETAIL NO. 160	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	6' CHAIN LINK FENCE AND GATE	REVISED 01-01-2013	DETAIL NO. 160

DWG. NO. DT01
DATE 02/23/2024
SHEET NO. 03 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION DETAILS

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY DLP | CHECKED BY JRW | FOR: COP

Registered Professional Engineer – Certificate No. 69250 – James R. Warne – Arizona, U.S.A. – 2/23/24 – Signed

Kimley»Horn
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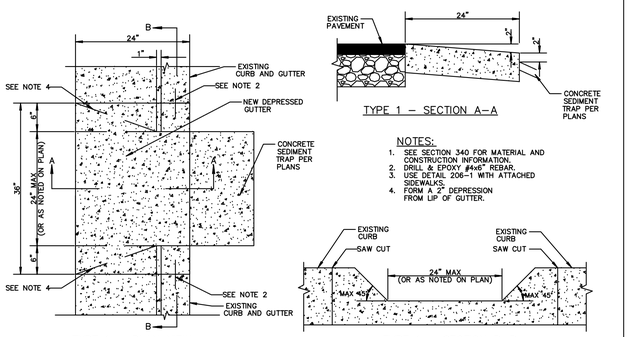
NO.	BY	DATE	REVISIONS	APPRV	DATE
				CITY	

REVIEW:

CIP #: 2208-002

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040–FEE BOOTH AND SCALE\CADD\07–SHEETS\ROADWAY\DT01.DWG



TYPE 1 – PLAN VIEW

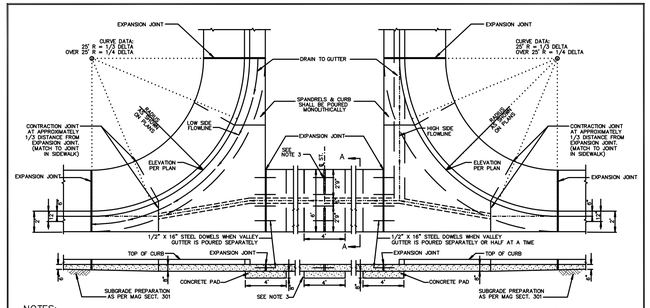
TYPE 1 – SECTION A–A

TYPE 1 – SECTION B–B

NOTES:

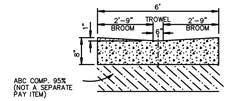
1. SEE SECTION 340 FOR MATERIAL AND CONSTRUCTION INFORMATION.
2. DRILL & EPOXY #4x6" REBAR.
3. USE DETAIL 206–1 WITH ATTACHED SIDEWALKS.
4. FORM A 2" DEPRESSION FROM LIP OF GUTTER.

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
226–1	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	CURB CUT TYPE 1	01–01–2022	226–1



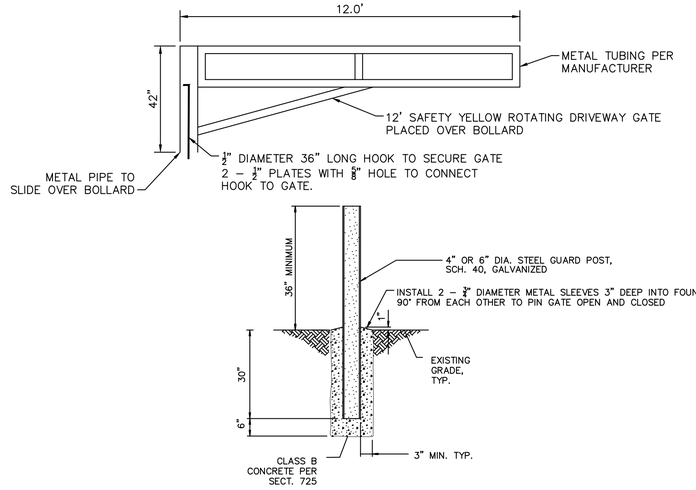
NOTES:

1. CONCRETE SHALL BE CLASS "AA" WITH 5%–7% ENTRAINED AIR PORTLAND CEMENT CONCRETE 600 LBS. WITH 1/4" AGGREGATE MAX., 4000 P.S.I. AT 28 DAYS & SHALL HAVE A SLUMP OF NOT MORE THAN 4 INCHES, PER MAG SECT. 340 & 725.
2. EITHER CONSTRUCTION JOINT OR CONTRACTION JOINT IS REQUIRED AT CENTERLINE OF STREET.
3. A SEPARATE CONCRETE PAD IS REQUIRED WHEN VALLEY GUTTER IS POURED SEPARATELY OR HALF AT A TIME.
4. EXPANSION JOINTS SHALL CONFORM TO MAG SECT. 340.
5. NO CONCRETE SHALL BE PLACED PRIOR TO FORM INSPECTION BY THE AGENCY ENGINEER OR DESIGNEE.
6. A MINIMUM OF 8" ABC (OR PER GEOTECH ANALYSIS) COMPACTED TO 95% PROCTOR SHALL EXTEND BELOW GUTTER & SPANDRELS.

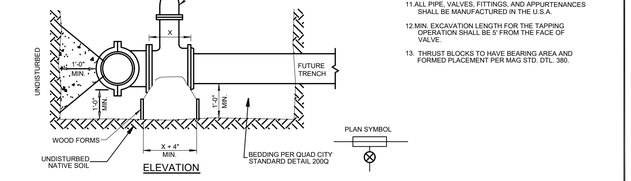


SECTION A–A
VALLEY GUTTER

QUAD CITY STANDARD DETAIL	6' VALLEY GUTTER & SPANDRELS	REVISED 4/2018	DETAIL No. 240Q-1



ROTATING DRIVEWAY GATE DETAIL

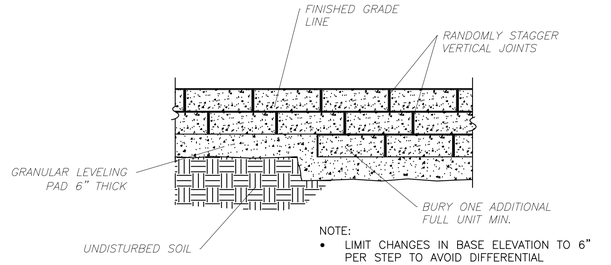


ELEVATION

NOTES:

1. VALVE BLOCKING PER QUAD CITY STANDARD DETAIL 301Q.
2. TAPS SHALL BE MADE BY CITY/TOWN CREWS AT PREVAILING RATES OR BY APPROVED CONTRACTORS WHEN ALLOWED BY CITY/TOWN.
3. INSTALL TEMPORARY BLOCKING UNDER VALVE BEFORE TAP IS MADE. ALL FLANGE BOLTS SHALL BE CLEAR OF FOOTING.
4. TAPPING SLEEVES SHALL BE FORD FTSS, ROMAC SST III OR APPROVED EQUAL.
5. INSTALLATION SHALL BE LEAK TESTED TO A MINIMUM OF 200 PSI FOR 30 MINUTES PRIOR TO TAP.
6. TAPPING SLEEVE SHALL BE PLACED AT A MINIMUM OF 3' FROM ANY BELL, COUPLING, VALVE, FITTING, OR OTHER OBSTRUCTION.
7. PROTECT ALL CONCRETE CONTACT AREAS WITH 8 MIL SHEET PLASTIC.
8. JOINT RESTRAINT PER QUAD CITY STANDARD DETAIL 303Q USING A DEAD END ON NEW CONSTRUCTION.
9. INSTALL BOX, COVER, AND VALVE BOX STABILIZER PER AGENCY REQUIREMENTS.
10. ALL EXCAVATIONS SHALL BE OSHA COMPLIANT.
11. ALL PIPE, VALVES, FITTINGS, AND APPURTENANCES SHALL BE MANUFACTURED IN THE U.S.A.
12. MIN. EXCAVATION LENGTH FOR THE TAPPING OPERATION SHALL BE 5' FROM THE FACE OF VALVE.
13. THRUST BLOCKS TO HAVE BEARING AREA AND FORMED PLACEMENT PER MAG STD. DTL. 380.

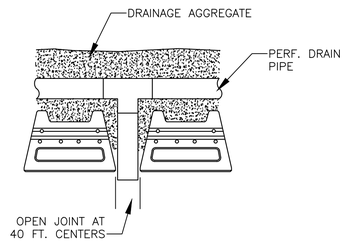
QUAD CITY STANDARD DETAIL	TAPPING SLEEVES AND VALVES	REVISED 4/2018	DETAIL No. 340Q-1



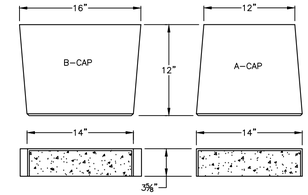
NOTE:

- LIMIT CHANGES IN BASE ELEVATION TO 6" PER STEP TO AVOID DIFFERENTIAL SETTLEMENT
- STEP AS NEEDED TO MINIMIZE BURIED UNITS AND MAINTAIN MINIMUM REQUIRED EMBEDMENT

STEPPING BASE DETAIL



DRAIN DETAIL



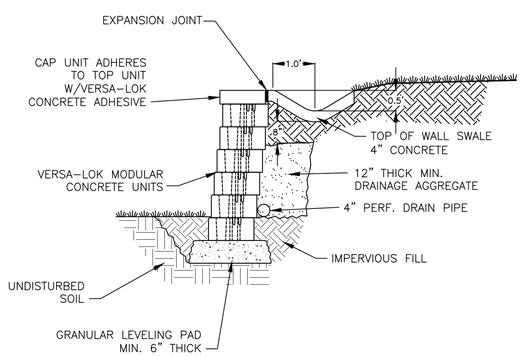
VERSA–LOK CAP UNITS
UNIT DIMENSIONS

MODULAR BLOCK RETAINING WALL MATERIAL NOTES

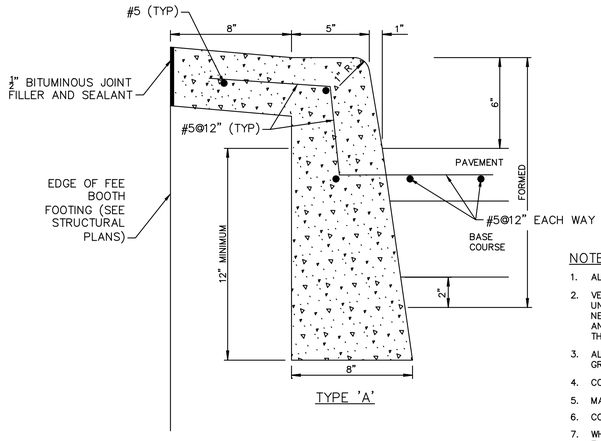
1. DEFINITIONS:
   1.1. CONCRETE UNITS – VERSA–LOK MODULAR CONCRETE FACING UNIT, MACHINE MADE FROM PORTLAND CEMENT, WATER, AND MINERAL AGGREGATES.
   1.2. UNIT FILL – DRAINAGE AGGREGATE WHICH IS PLACED WITHIN AND IMMEDIATELY BEHIND THE MODULAR CONCRETE UNITS.
2. VERSA–LOK UNITS:
   2.1. VERSA–LOK UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 1372 AND HAVE A MINIMUM NET AVERAGE 28 DAYS COMPRESSIVE STRENGTH OF 3000 PSI. COMPRESSIVE STRENGTH TEST SPECIMENS SHALL CONFORM TO THE SAW–CUT COUPON PROVISIONS OF ASTM C 140.
   2.2. VERSA–LOK UNITS SHALL BE LIGHT BROWN COLOR.
3. LEVELING PAD
   3.1. MATERIAL FOR LEVELING PAD SHALL CONSIST OF COMPACTED SAND, GRAVEL, OR COMBINATION THEREOF (USCS SOIL TYPES GP, GW, SP AND SW) AND SHALL BE A MINIMUM OF 6 INCHES IN DEPTH. LEAN CONCRETE WITH A STRENGTH OF 200–300 PSI AND 3 INCHES THICK MAXIMUM MAY ALSO BE USED AS A LEVELING PAD MATERIAL. THE LEVELING PAD SHOULD EXTEND LATERALLY AT LEAST A DISTANCE OF 6 INCHES FROM THE TOE AND HEEL OF THE LOWERMOST VERSA–LOK UNIT.
4. DRAINAGE AGGREGATE
   4.1. DRAINAGE AGGREGATE SHALL BE ANGULAR, CLEAN STONE OR GRANULAR FILL MEETING THE FOLLOWING GRADATION AS DETERMINED IN ACCORDANCE WITH ASTM D 422:

SIEVE SIZE	PERCENT PASSING
1"	100
¾"	75–100
NO. 4	0–60
NO. 40	0–50
NO. 200	0–5

5. DRAINAGE PIPE
   5.1. THE DRAINAGE COLLECTION PIPE SHALL BE A PERFORATED OR SLOTTED PVC, OR CORRUGATED HDPE PIPE. THE DRAINAGE PIPE MAY BE WRAPPED WITH A GEOTEXTILE TO FUNCTION AS A FILTER.
   5.2. DRAINAGE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM F 405 OR ASTM F 758.



TYPICAL SECTION – UNREINFORCED RETAINING WALL



TYPE 'A'

NOTES:

1. ALL VERTICAL SURFACES TO BE FORMED.
2. VERTICAL SURFACES DOWN FROM 2" BELOW UNDISTURBED SOIL MAY BE PLACED AGAINST NEAT CUT IF APPROVED BY THE ENGINEER AND CONCRETE WILL NOT EXTEND MORE THAN 1" BEYOND THEORETICAL FACE.
3. ALL EXPOSED SURFACES TO BE STRIPPED GREEN AND TROWEL FINISHED.
4. CONCRETE CURBS CONFORM TO SECT. 340.
5. MAXIMUM SPACING OF CONTRACTION JOINTS IS 10'
6. CONCRETE TO BE CLASS 'B' PER SECT. 725.
7. WHEN PAVEMENT AND BASE COURSE EQUALS OR EXCEEDS 10" IN DEPTH, THE ENTIRE ROADWAY SIDE OF THE CURB SHALL BE FORMED. THE TOTAL CURB HEIGHT REMAINS 18" UNLESS NOTED OTHERWISE.

SINGLE CURB ADJACENT TO FEE BOOTH DETAIL

DWG. NO. DT02
DATE 02/23/2024
SHEET NO. 04 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION DETAILS

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY DLP | CHECKED BY JRW | FOR: COP

69250 JAMES R. WARNE 2/23/24 Date Signed ARIZONA, U.S.A.

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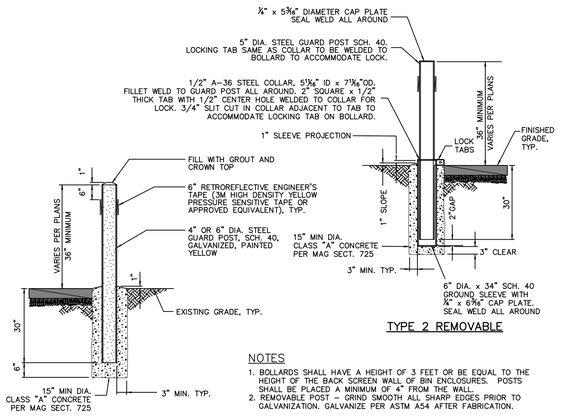
ENGINEER

REVIEW:

CIP #: 2208-002

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040–FEE BOOTH AND SCALE\CADD\07–SHEETS\ROADWAY\DT01.DWG



TYPE 2 REMOVABLE

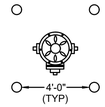
TYPE 1 PERMANENT

NOTES

1. BOLLARDS SHALL HAVE A HEIGHT OF 3 FEET OR BE EQUAL TO THE HEIGHT OF THE BACK SCREEN WALL OF BIN ENCLOSURES. POSTS SHALL BE PLACED A MINIMUM OF 4" FROM THE WALL.
2. REMOVABLE POST – GRIND SMOOTH ALL SHARP EDGES PRIOR TO GALVANIZATION. GALVANIZE PER ASTM A54 AFTER FABRICATION.

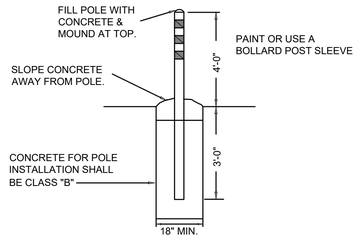
QUAD CITY STANDARD DETAIL	BOLLARD	REVISED 4/2018	DETAIL No. 140Q

PROTECTION POLE PLACEMENT



NOTES:

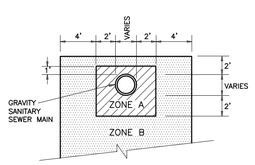
1. DO NOT PLACE POLES IN FRONT OF NOZZLE.
2. POLES MAY BE CHANGED IN NUMBER AND ARRANGEMENT DEPENDING ON INDIVIDUAL NEED.
3. REQUIRED AT SPECIFIED LOCATIONS ONLY.
4. POLE SHALL BE SCHEDULE 40 4" STEEL.
5. PAINT POLE YELLOW AND PLACE 3 - 3" RED REFLECTIVE BANDS.



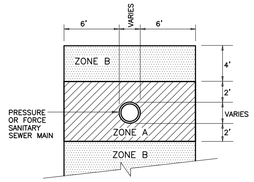
QUAD CITY STANDARD DETAIL	FIRE HYDRANT PROTECTION POLE	REVISED 4/2018	DETAIL No. 364P

WATER LINE EXCLUSION AND EXTRA PROTECTION ZONES*

GRAVITY SANITARY SEWER



PRESSURIZED SANITARY SEWER

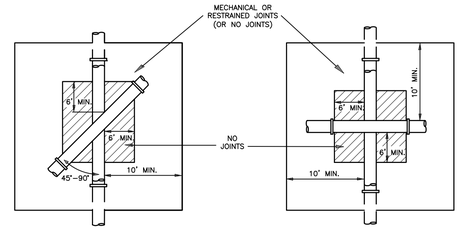


NOTES:

ZONE A: NO WATER LINES ALLOWED/MINIMUM SEPARATION.
ZONE B: EXTRA PROTECTION REQUIRED FOR WATER LINES.
* REFER TO MAG SPECIFICATION SECTION 610, WATER LINE CONSTRUCTION.

QUAD CITY STANDARD DETAIL	WATER AND SANITARY SEWER SEPARATION/PROTECTION	REVISED 4/2018	DETAIL No. 404P-1

WATER LINE EXTRA PROTECTION
DUCTILE IRON PIPE WITH RESTRAINED OR MECHANICAL JOINTS*

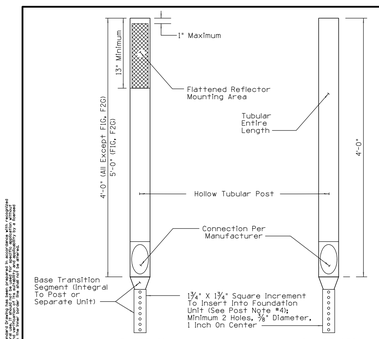


EXTRA PROTECTION DUCTILE IRON PIPE
(GRAVITY OR PRESSURIZED) SEWER LINE

NOTES:

* REFER TO MAG STANDARD SPECIFICATION SECTION 610.

QUAD CITY STANDARD DETAIL	WATER AND SANITARY SEWER SEPARATION/PROTECTION	REVISED 4/2018	DETAIL No. 404P-2

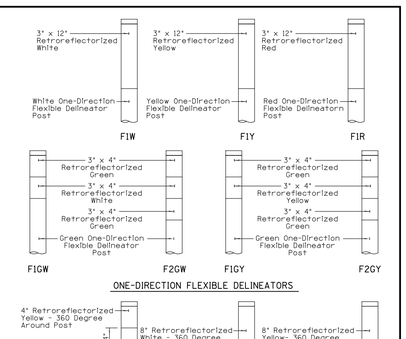


ONE-DIRECTION 360 DEGREE

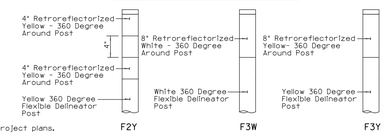
POST NOTES: (Applicable To All Units)

1. Minimum wall thickness shall be ⅛ inch.
2. Surface color is as specified in the delineator type table.
3. Delineators shall meet all provisions of the Standard Specifications and the project plans.
4. Where surface mounting is required, insertable base and surface-mounted foundation unit may use a "mating" (receptacle) shape.
5. Upper end of base transition units shall fit the post contour sufficiently to attach firmly to the post using bolts, pins or rivets.
6. Lower end of base transition segments and base transition units shall be shaped and sized to snuggly fit the foundation unit. It shall be perforated to attach firmly to the foundation unit using bolts or pins.

FLEXIBLE DELINEATOR POSTS AND BASES

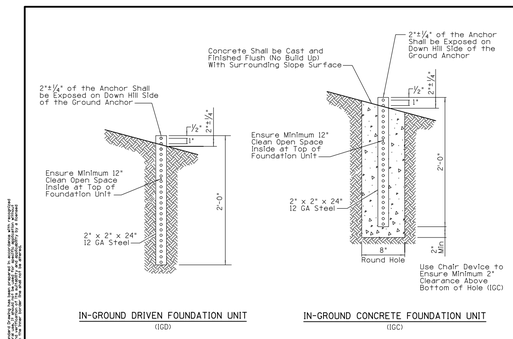


ONE-DIRECTION FLEXIBLE DELINEATORS



360 DEGREE FLEXIBLE DELINEATORS

DESIGNED BY: H. LUNA	DRAWN BY: H. LUNA	CHECKED BY: M. HANNA	APPROVED:
STANDARD CONCEPTS APPROVED FOR DISTRIBUTION	DECEMBER, 2005 DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION TRAFFIC ENGINEERING & PLANNING STANDARD DRAWING	
		FLEXIBLE DELINEATOR ASSEMBLIES	DRAWING NO. M-26 (3 of 5)

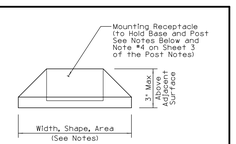


IN-GROUND DRIVEN FOUNDATION UNIT (IGD)

IN-GROUND CONCRETE FOUNDATION UNIT (IGC)

NOTES:

1. For cut- or fill-side applications.
2. Use measures to ensure minimum 12 inch empty space inside the top of installed foundation unit (IGD and IGC).
3. Steel anchor foundations shall be perforated full-length with ⅜ inch diameter holes at one-inch on-center along the centerline of each face with adjacent and opposite holes to be aligned on all faces and the end holes to be approximately ½ inch from each end.
4. Delineators along freeways should be installed in concrete (see in-ground concrete foundation unit).
5. Delineators along state highways (non-freeways) should be driven into the soil (see in-ground driven foundation unit) if the soil conditions are appropriate as determined by the Engineer representing ADOT; otherwise, the delineators should be installed in concrete.



SURFACE-MOUNTED FOUNDATION UNIT FOR FLEXIBLE DELINEATORS

NOTES FOR SURFACE MOUNTED FOUNDATION UNIT:

1. Receptacle shape shall be square unless matched by manufacturer to tubular post.
2. Foundation unit shape may be square, rectangular or rounded.
3. Foundation unit material shall be compatible with adhering or fastening to all forms of asphaltic and portland cementitious surface material used by ADOT.
4. Surface mounted foundation units should be placed only on sound pavement on the roadway plane and bolted or cemented in place.
5. Surface mounted foundation units should be placed only on sound bridge concrete barrier and bolted in place per manufacture's recommendation.
6. All required epoxy adhesives or fasteners shall be included.
7. Foundation unit maximum dimension shall not exceed 15 inches for pavement surface and 8 inches for bridge concrete barrier.
8. Foundation unit shall be larger than or equal to 40 square inches and less than or equal to 115 square inches.
9. Foundation unit largest dimension shall not be greater than double the least dimension.

DESIGNED BY: H. LUNA	DRAWN BY: H. LUNA	CHECKED BY: M. HANNA	APPROVED:
STANDARD CONCEPTS APPROVED FOR DISTRIBUTION	DECEMBER, 2005 DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION TRAFFIC ENGINEERING & PLANNING STANDARD DRAWING	
		DELINEATOR FOUNDATION DETAILS	DRAWING NO. M-26 (5 of 5)

DWG. NO. DT03
DATE 02/23/2024
SHEET NO. 05 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION DETAILS

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY: DLP | CHECKED BY: JRW | FOR: COP

Registered Professional Engineer — CERTIFICATE NO. 69250 — JAMES R. WARNE — 2/23/24 — Date Signed — ARIZONA, U.S.A.

Kimley»Horn

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NO.	BY	DATE	ENGINEER	APPRV	DATE	CITY

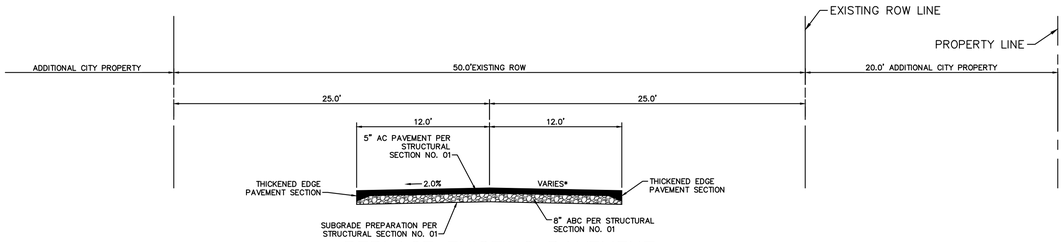
REVISIONS

REVIEW:

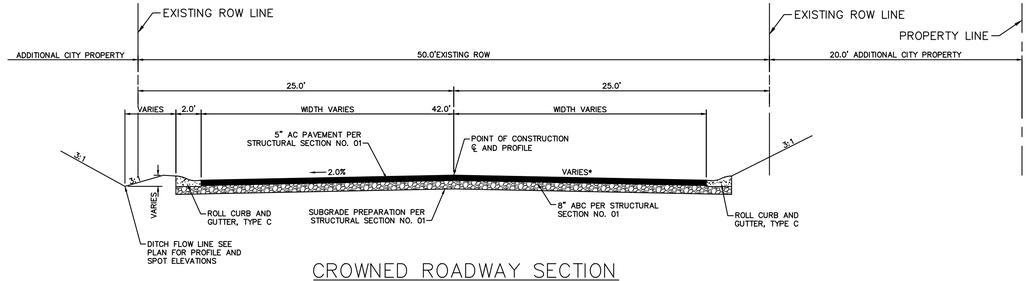
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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

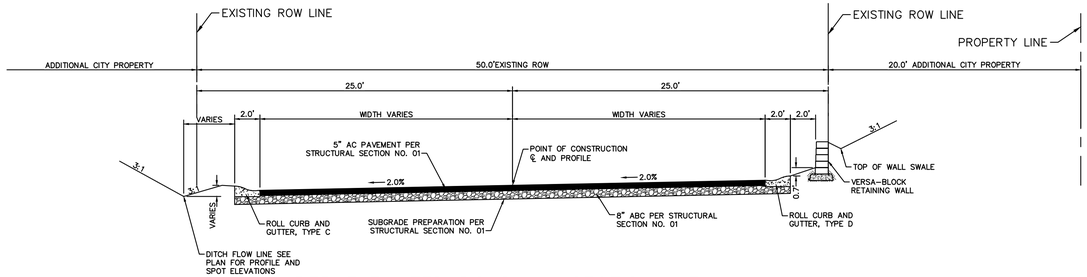
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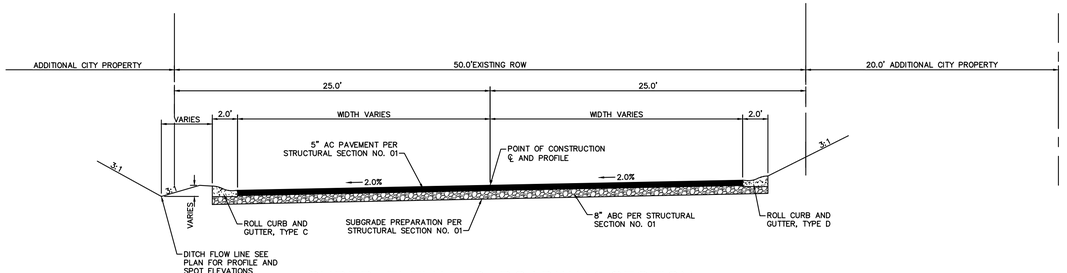
REPLACE EXISTING PAVEMENT
STA:10+46.45 TO STA:12+72.60
SCALE: N/A



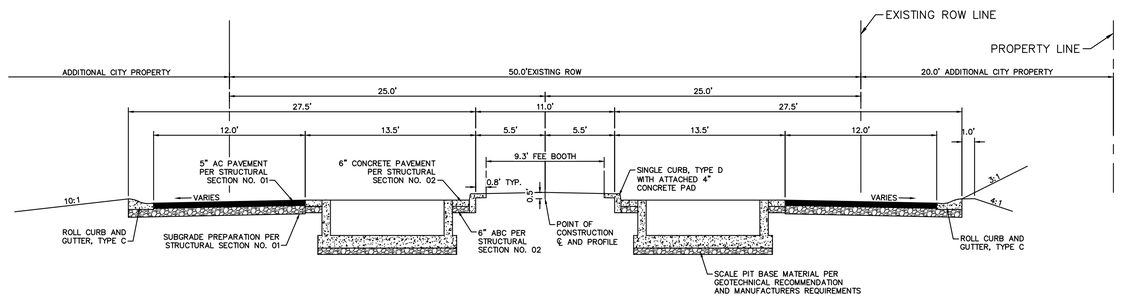
CROWNED ROADWAY SECTION
STA:12+72.60 TO STA:13+38.09
SCALE: N/A



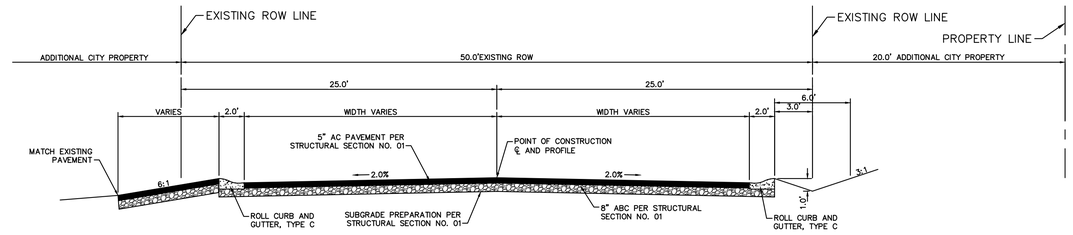
SUPER ELEVATED ROADWAY SECTION WITH WALL
STA:13+38.09 TO STA:15+29.95
SCALE: N/A



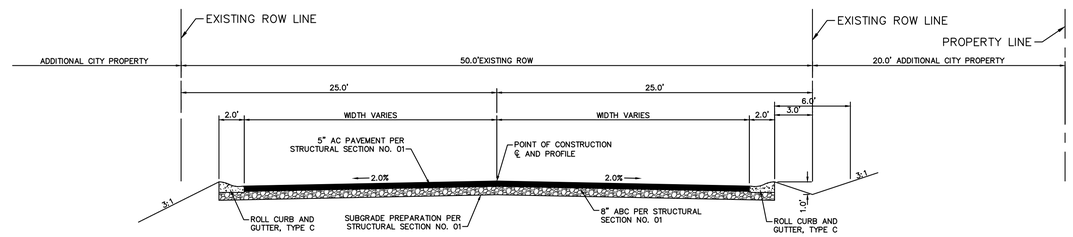
SUPER ELEVATED ROADWAY SECTION
STA:15+29.95 TO STA:15+25.00
SCALE: N/A



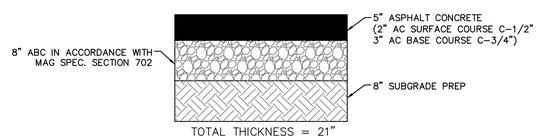
CROWNED SECTION AT SCALES
STA:16+28.00 TO STA:17+62.00
SCALE: N/A



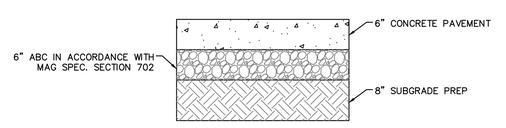
CROWNED ROADWAY SECTION MATCHING EXISTING PAVEMENT
STA:17+62.00 TO STA:18+50.67
SCALE: N/A



CROWNED ROADWAY SECTION MATCHING EXISTING PAVEMENT
STA:18+50.67 TO STA:21+86.39
SCALE: N/A



AC STRUCTURAL SECTION NO. 01
* PER GEOTECHNICAL REPORT DATED MARCH 24, 2023



CONCRETE STRUCTURAL SECTION NO. 02
* PER GEOTECHNICAL REPORT DATED MARCH 24, 2023

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DWG. NO. TS01
DATE 02/23/2024
SHEET NO. 06 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
TYPICAL SECTIONS

CITY OF PRESCOTT Everybody's Hometown
PREPARED BY: DLP | CHECKED BY: JRW | FOR: COP

Registered Professional Engineer CERTIFICATE NO. 69250 JAMES R. WARNE 2/23/24 ARIZONA, U.S.A.

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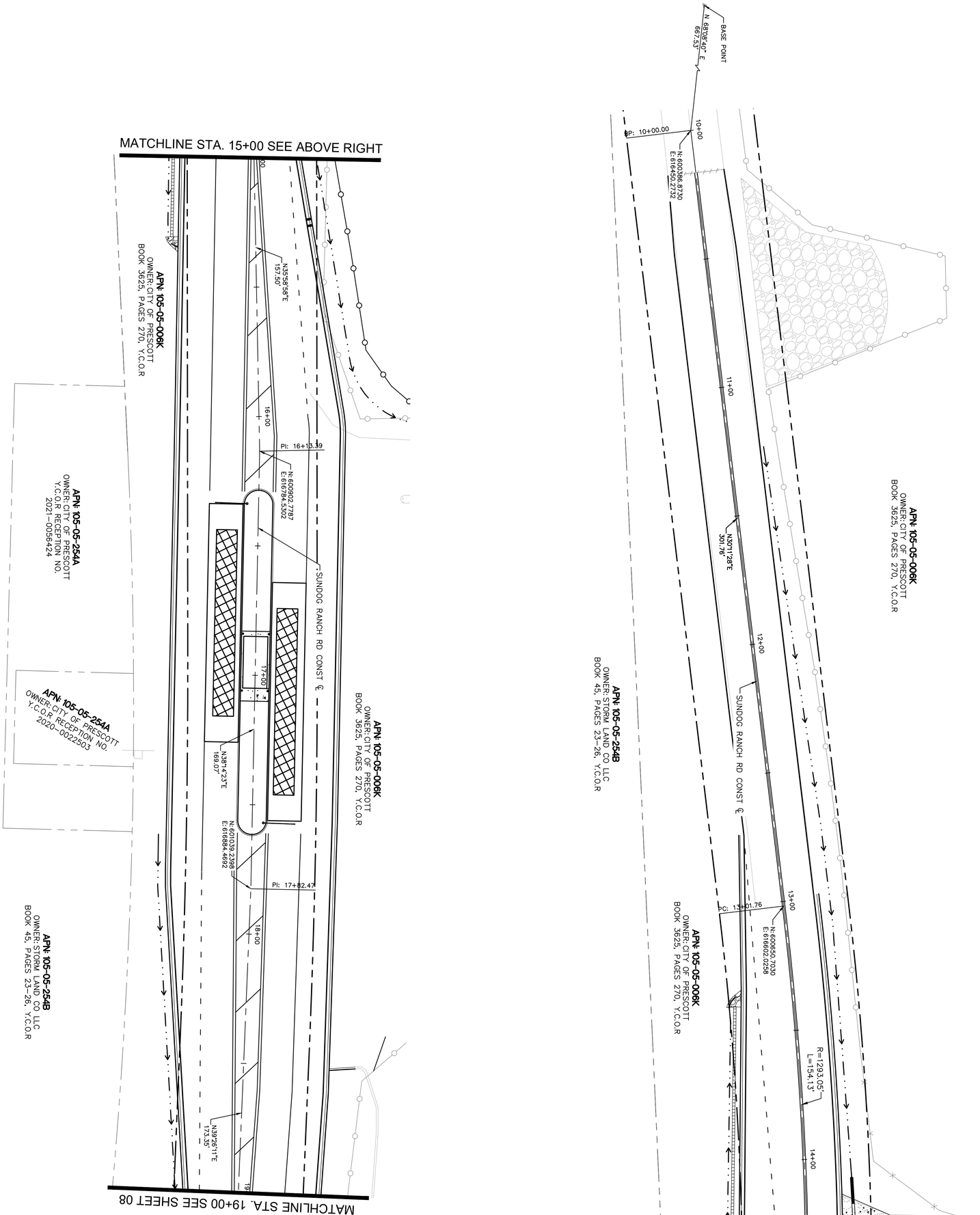
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REVIEW:

CIP #: 2208-002

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

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Registered Professional Engineer
69259
JAMES R. WARNE
2/23/24

CITY OF PRESCOTT
Everybody's Hometown

PREPARED BY	CHECKED BY	FOR:
DLP	JRW	COP

CITY OF PRESCOTT PUBLIC WORKS

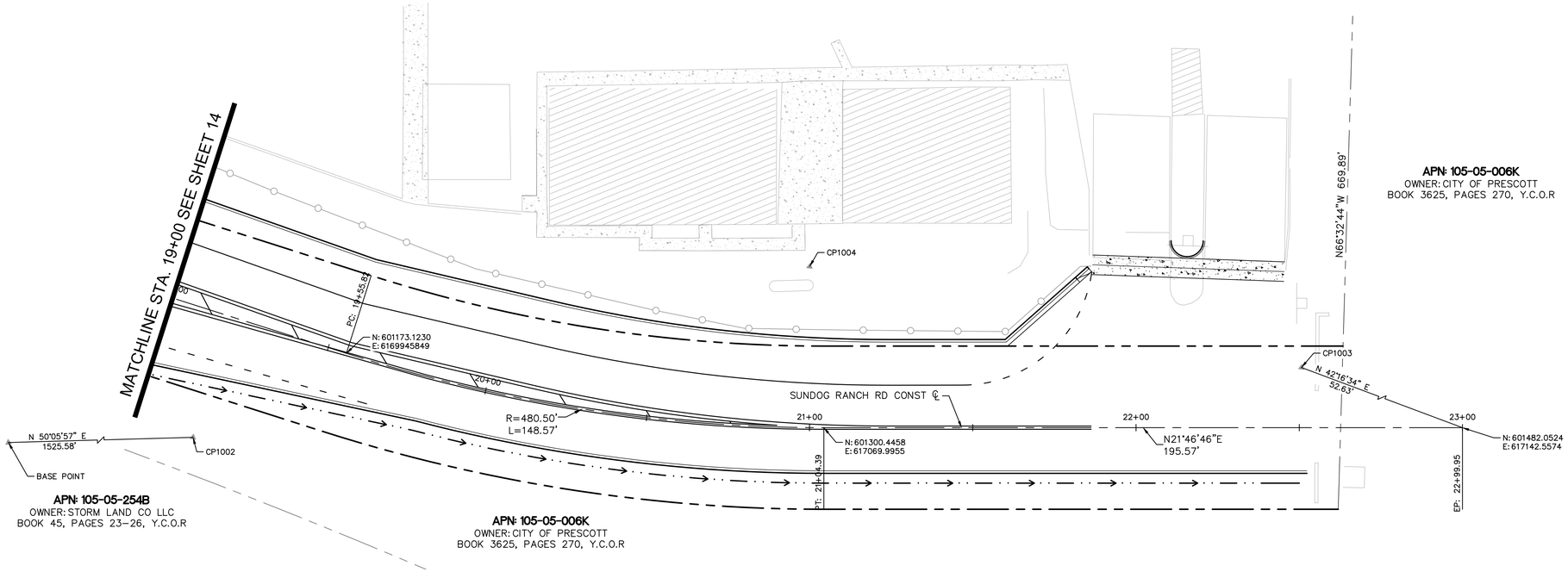
SOLID WASTE SCALE AND FEE BOOTH RELOCATION
HORIZONTAL CONTROL

DWG. NO.	HC01
DATE	02/23/2024
SHEET NO.	07
	OF 52

CIP #: 2208-002

REVIEW:

SOLID WASTE SCALE AND FEE BOOTH RELOCATION



SURVEY POINT TABLE				
POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION
BASE POINT	5199.00	600141.3708	615830.7200	BASE PT 60D
1002	5188.05	601119.9760	617001.0790	CP 60D NA
1003	5180.59	601443.1100	617107.1520	CP 60D NA
1004	5182.43	601314.7390	617022.5140	CP 60D NA

SURVEYOR INFORMATION

THE SURVEY INFORMATION FOR THE PREPARATION OF THESE PLANS WAS TAKEN FROM THE TOPOGRAPHIC SURVEY PERFORMED BY SHEPHARD WESNITZER, INC AN ARDURRA COMPANY. THE SURVEY WAS PERFORMED BY MARK POLYDOROS, LICENSE #40321.

BASIS OF BEARING

SURVEY CONTROL IS THE CITY OF PRESCOTT SURVEY DATUM, ALSO BEING ARIZONA STATE PLANE ZONE, ARIZONA CENTRAL 0202, NAD 83, NAVD 88 USING GEOID MODEL GEOID99 (CONUS), CITY OF PRESCOTT – CONVERSION FROM STATE PLANE:

NORTHING; (STATE PLANE X 1.000329975) – 701,456.0090

EASTING; (STATE PLANE X 1.000329975) + 69,457.2499

STATE PLANE CONVERSION FROM CITY OF PRESCOTT NORTHING: (CITY OF PRESCOTT + 701,456.0090) X 0.999670134, EASTING: (CITY OF PRESCOTT – 69,457.2499) X 0.999670134

BENCHMARK

THE BENCHMARK FOR THIS PROJECT IS CITY OF PRESCOTT BENCHMARK ROS–06 NAVD88 ELEVATION 5378.12.

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DWG. NO. HC02 | DATE 02/23/2024 | SHEET NO. 08 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
HORIZONTAL CONTROL

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY: DLP | CHECKED BY: JRW | FOR: COP

69250 JAMES R. WARNE Registered professional engineer CERTIFICATE NO. (CIVIL) 2/23/24 ARIZONA, U.S.A.

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				CITY	

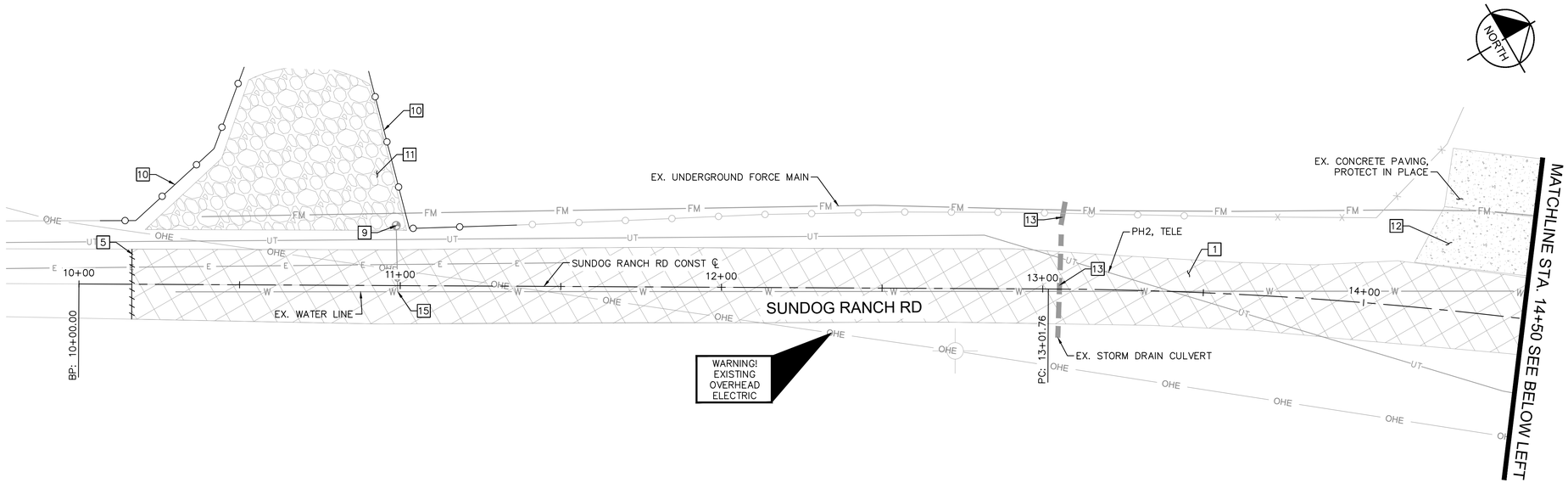
ENGINEER

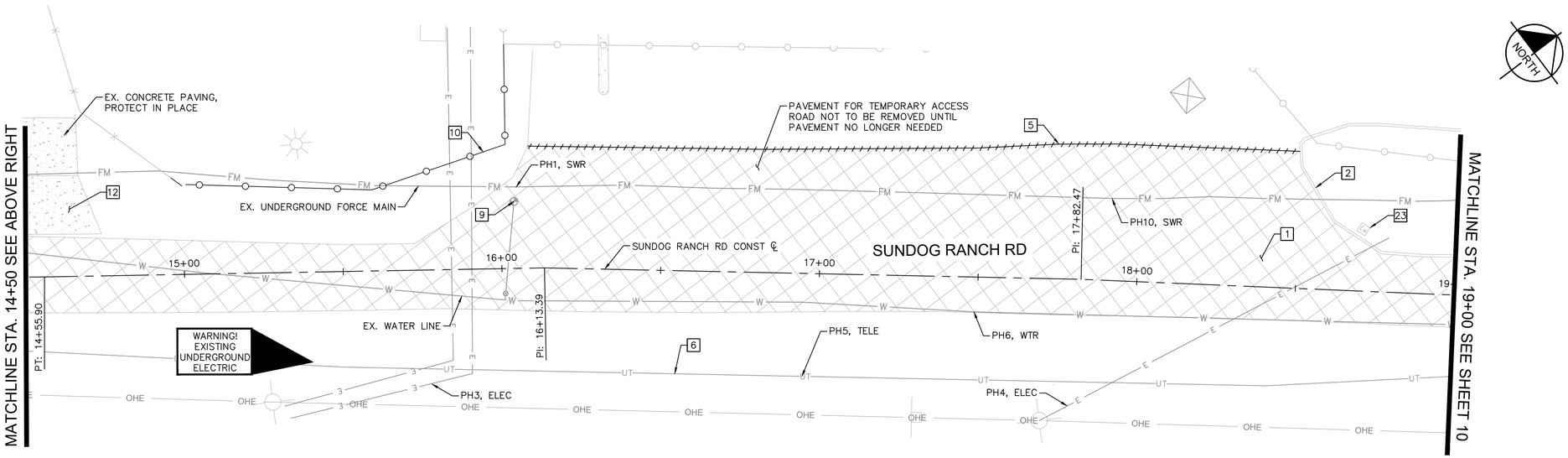
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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

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CONSTRUCTION NOTES

NO	DESCRIPTION
1	REMOVE AND DISPOSE ASPHALT PAVEMENT AND BASE AND SUBGRADE TO DESIGN DEPTH
2	REMOVE AND DISPOSE SINGLE CURB
5	SAWCUT PAVEMENT
6	COORDINATE RELOCATION OF EXISTING UTILITY
9	REMOVE AND DISPOSE EXISTING FIRE HYDRANT
10	REMOVE AND RELOCATE EXISTING FENCE
11	REGRADE EXISTING GRAVEL DRIVE
12	REMOVE AND DISPOSE EXISTING CONCRETE PAVEMENT
13	REMOVE AND DISPOSE EXISTING STORM DRAIN PIPE
15	REMOVE AND DISPOSE EXISTING HYDRANT LEAD AND VALVE. INSTALL MECHANICAL PLUG
23	REPLACE EXISTING ELECTRICAL PULL BOX WITH A TRAFFIC RATED PULL BOX.

GRAPHIC SCALE IN FEET
0 10 20 40

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DWG. NO. DM01 | DATE 02/23/2024 | SHEET NO. 09 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION DEMOLITION PLAN

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY: DLP | CHECKED BY: JRW | FOR: COP

Registered professional engineer
CERTIFICATE NO. 69250
JAMES R. WARNE
Date Signed 2/23/24
ARIZONA, U.S.A.

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				CITY	

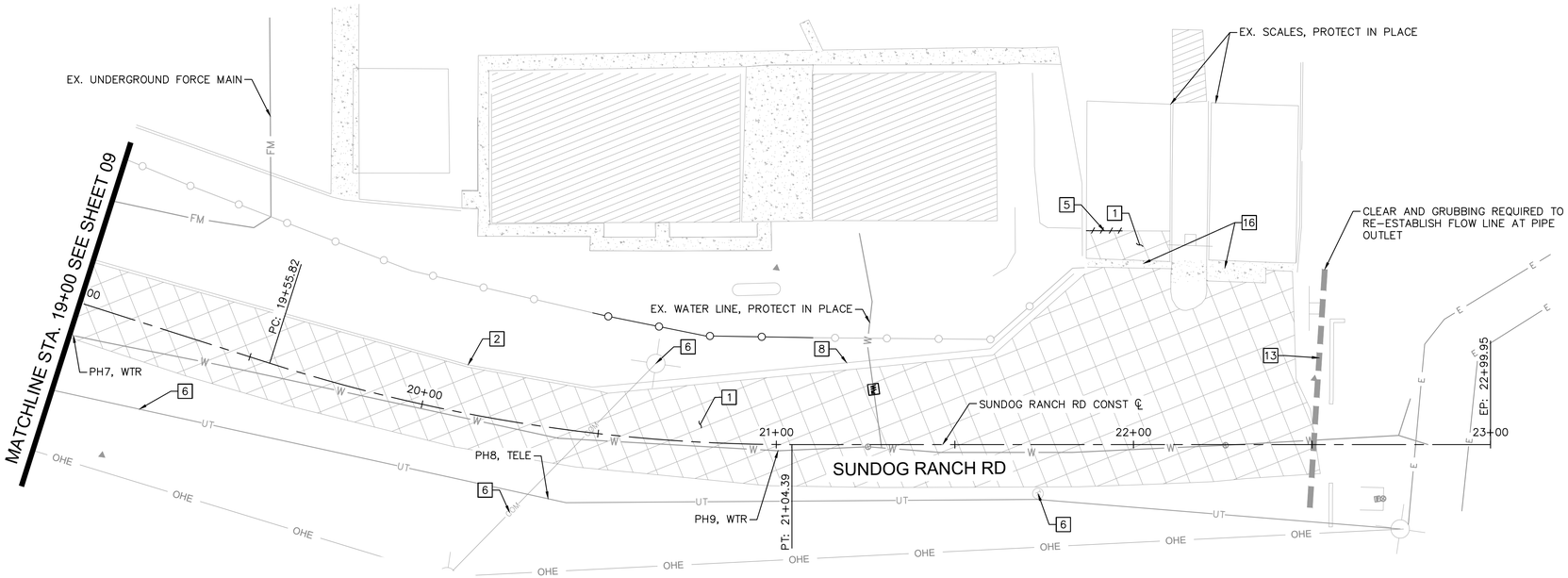
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CIP #: 2208-002

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040-FEE BOOTH AND SCALE\CADD\07-SHEETS\ROADWAY\DM01.DWG



CONSTRUCTION NOTES

NO	DESCRIPTION
1	REMOVE AND DISPOSE ASPHALT PAVEMENT AND BASE AND SUBGRADE TO DESIGN DEPTH
2	REMOVE AND DISPOSE SINGLE CURB
5	SAWCUT PAVEMENT
6	COORDINATE RELOCATION OF EXISTING UTILITY
7	REMOVE AND DISPOSE EXISTING FIRE HYDRANT
8	REMOVE AND DISPOSE ROLL CURB
13	REMOVE AND DISPOSE EXISTING STORM DRAIN PIPE
16	REMOVE AND DISPOSE EXISTING SLOTTED DRAIN AND CONCRETE GUTTER

GRAPHIC SCALE IN FEET
0 10 20 40

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DWG. NO. DM02
DATE 02/23/2024
SHEET NO. 10 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION DEMOLITION PLAN

CITY OF PRESCOTT Everybody's Hometown
PREPARED BY DLP | CHECKED BY JRW | FOR: COP

Registered professional engineer
CERTIFICATE NO. 69250
JAMES R. WARNE
2/23/24
ARIZONA, U.S.A.

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			CITY

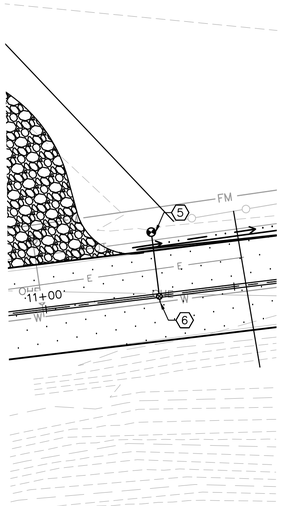
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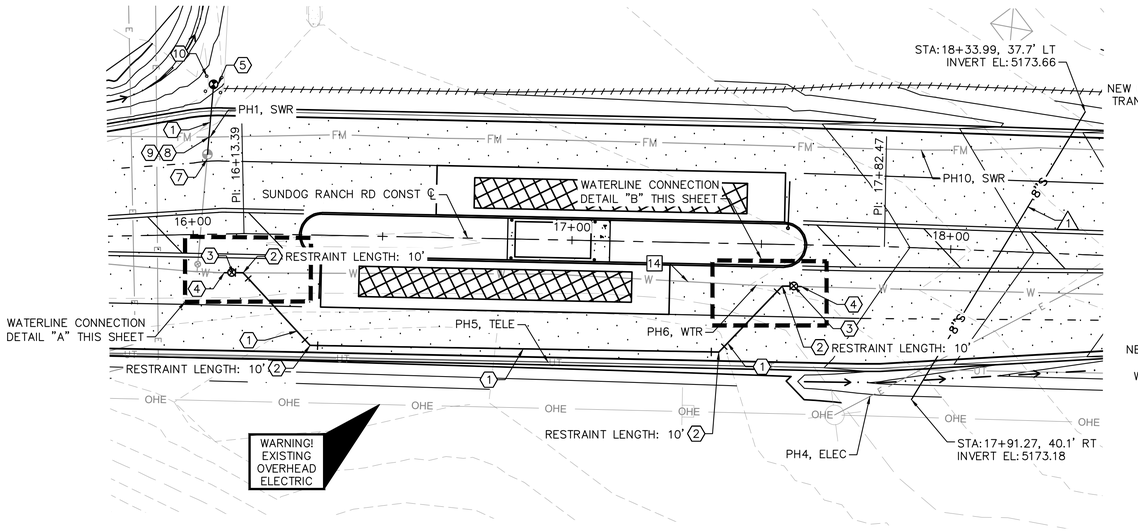
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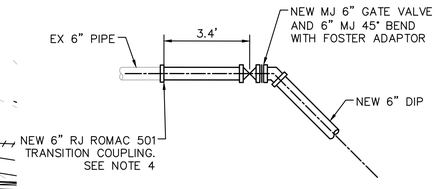
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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

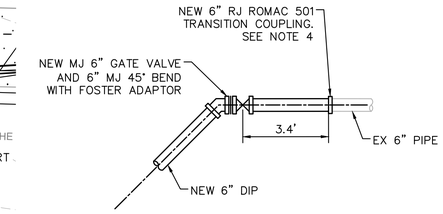
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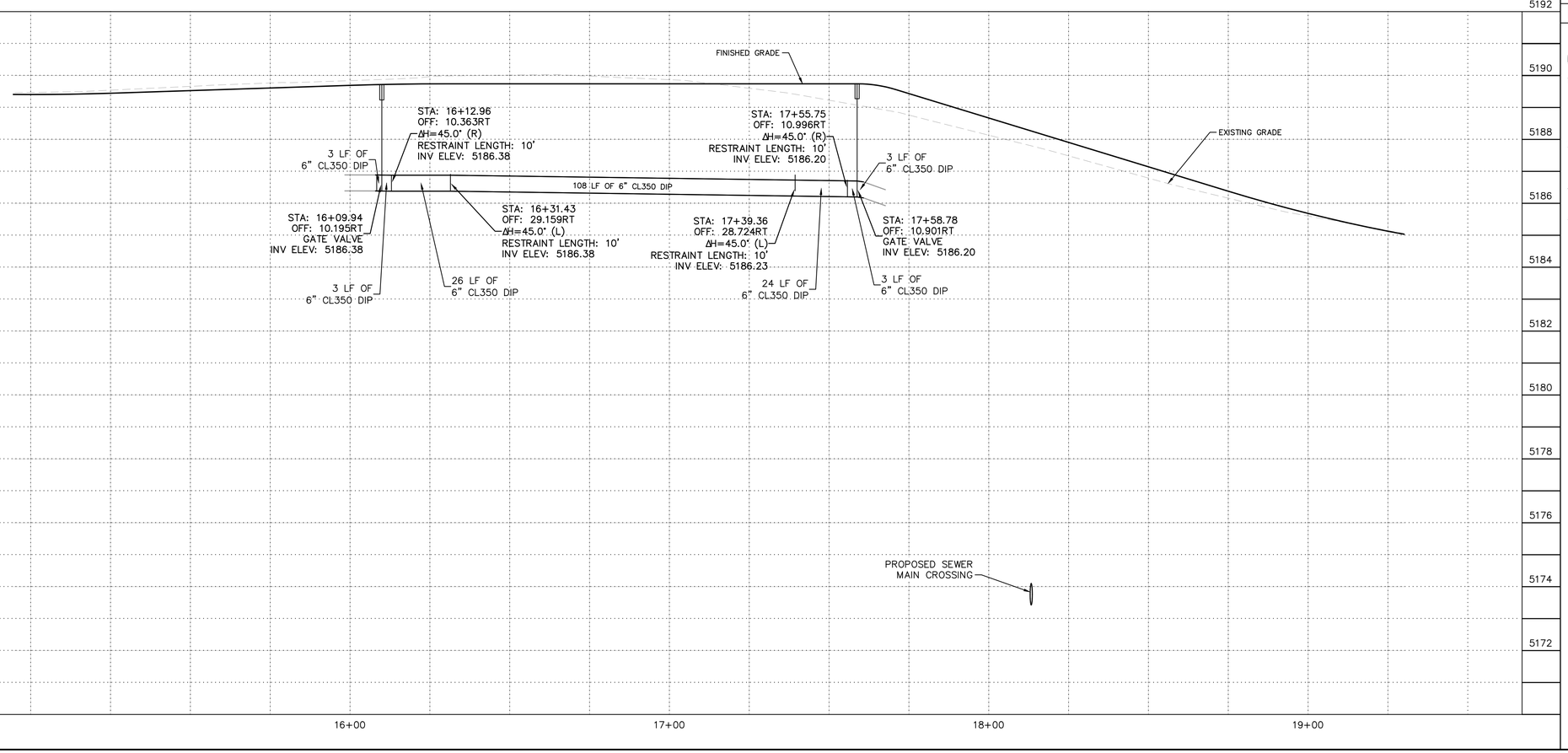




WATERLINE CONNECTION DETAIL "A"
SCALE: 1"=3'



WATERLINE CONNECTION DETAIL "B"
SCALE: 1"=3'



WATER LINE NOTES

NO	DESCRIPTION
1	6" FULLY RESTRAINED CLASS 350 DIP WATER LINE PER MAG SPEC 610. TRENCH AND BEDDING/SHADING PER QUAD CITY STD. DTL. 200Q–1. BACKFILL SHALL BE SLURRY PER NOTE 1 BELOW.
2	6" MEGALUG BEND OR APPROVED EQUAL. ANGLE PER PLAN
3	6" VALVE BOX AND COVER PER QUAD CITY STD. DTL. 391Q
4	CONNECT TO EXISTING 6" WATER MAIN. CONTRACTOR TO VERIFY DEPTH AND MATERIAL PRIOR TO CONSTRUCTION.
5	FIRE HYDRANT PER COP STD. DTL. 360Q. TRENCH AND BEDDING/SHADING PER QUAD CITY STD. DTL. 200Q–1. BACKFILL SHALL BE SLURRY PER NOTE 1 BELOW.
6	INSTALL 6" TAPPING SLEEVE & VALVE PER QUAD CITY STD. DTL. 340Q–1, VALVE BOX PER QUAD CITY STD. DTL. 200Q–1.
7	CONNECT TO EXISTING HYDRANT LEAD WITH TRANS COUPLER.
8	EXTRA PROTECTION PER COP STD. DTL. 404P–1, 405P–3, AND 405Q.
9	INSTALL VERTICAL REALIGNMENT OF HYDRANT LEAD PER QUAD CITY STD. DTL. 370Q WITHOUT MJ VALVES.
10	INSTALL FIRE HYDRANT PROTECTION POLE PER COP STD. DTL. 364P.

SEWER LINE NOTES

NO	DESCRIPTION
1	8" SDR 26 PVC SEWER LINE. TRANCH AND BEDDING/SHADING PER QUAD CITY STD. DTL. 200Q–1. BACKFILL SHALL BE SLURRY PER NOTE 1 BELOW. CAP BOTH ENDS FOR FUTURE CONNECTIONS.

REMOVAL NOTES

NO	DESCRIPTION
14	REMOVE AND DISPOSE EXISTING WATER LINE

NOTES:

1. THE TRENCH BACKFILL FOR ALL WATER AND SEWER LINE INSTALLATION SHALL CONSIST OF A ONE SACK SLURRY. THE SLURRY SHALL BE PLACED ABOVE THE PIPE SHADING TO THE SUB–GRADE LEVEL.
2. CONTRACTOR TO POTHOLE AND FIELD LOCATE EXISTING MAINS AND CONNECTION POINTS BEFORE BEGINNING CONSTRUCTION.
3. GATE VALVE AND VALVE BOX PER QUAD CITY STD. DTL. 391Q.
4. CONTRACTOR TO HAND EXCAVATE RESTRAINT LENGTH BEYOND CONNECTION LOCATION TO ENSURE NO JOINTS EXIST WITHIN THE LIMITS. IF JOINTS EXIST, NEW MAIN SHALL BE EXTENDED TO A SPOT PAST THE EXISTING JOINT.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 1 2 4
VERTICAL

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DWG. NO. WT01
DATE 02/23/2024
SHEET NO. 11 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
WATER LINE PLAN AND PROFILE

CITY OF PRESCOTT Everybody's Hometown
PREPARED BY: DLP
CHECKED BY: JRW
FOR: COP

Registered Professional Engineer
CERTIFICATE NO. 69250
JAMES R. WARNE
Date Signed 2/23/24
ARIZONA, U.S.A.

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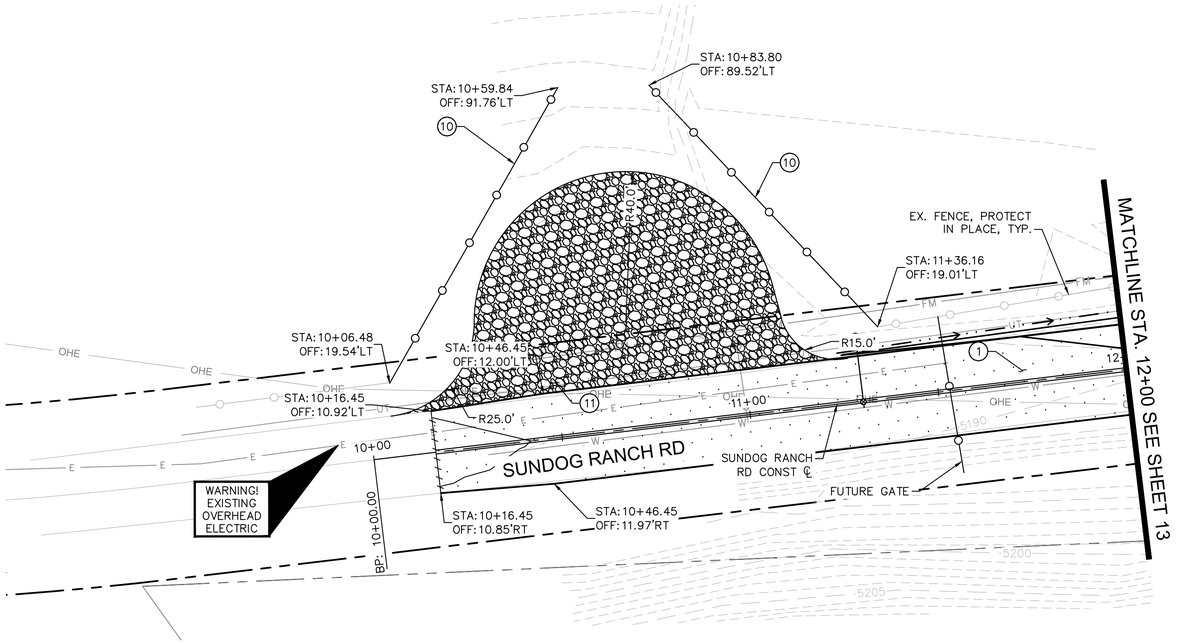
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			REVISIONS
			CITY APPRV DATE

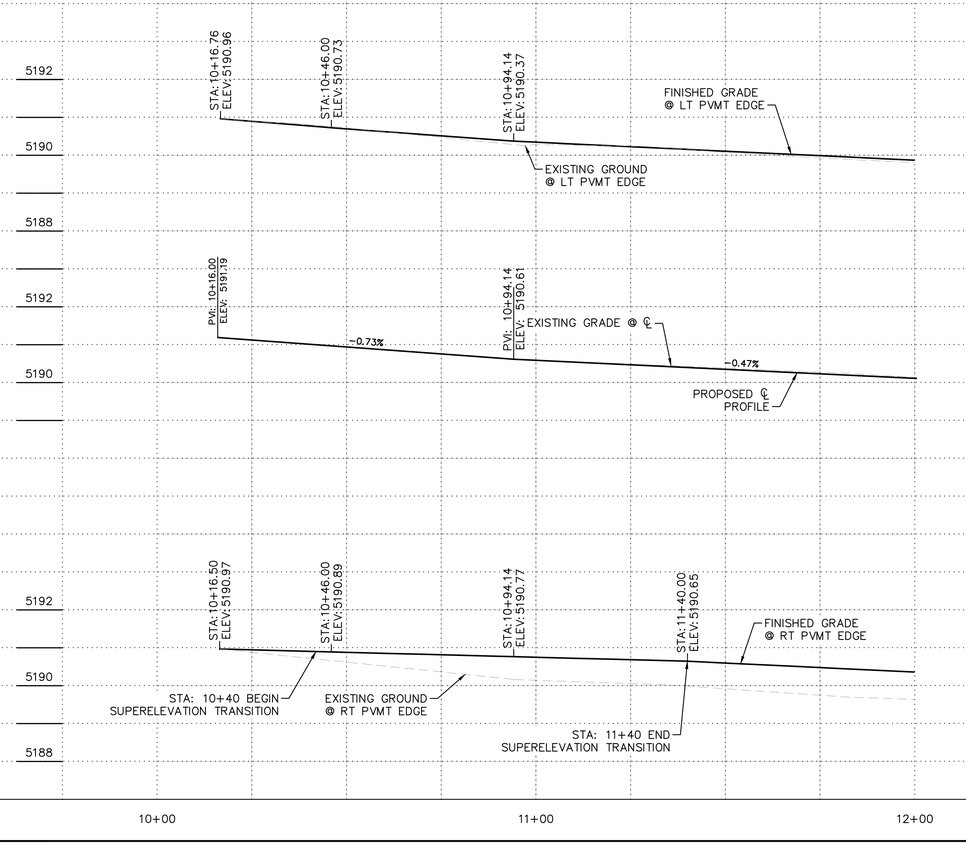
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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

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CONSTRUCTION NOTES

NO	DESCRIPTION
1	5" ASPHALT PAVEMENT ON 8" AGGREGATE BASE COURSE PER STRUCTURAL SECTION ON SHEET 06.
10	RESET EXISTING CHAIN LINK FENCE. SET NEW POSTS AND FOUNDATIONS PER MAG STD. DTL. 160.
11	6" THICK AGGREGATE SURFACE COURSE PER MAG SECTION 310, COMPACTION PER MAG SECTION 310.3 (A).

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL

0 1 2 4
VERTICAL

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DWG. NO. RD01 | DATE 02/23/2024 | SHEET NO. 12 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION ROADWAY PLAN

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY: DLP | CHECKED BY: JRW | FOR: COP

Registered professional engineer
CERTIFICATE NO. 69250
JAMES R. WARNE
Date Signed 2/23/24
ARIZONA, USA

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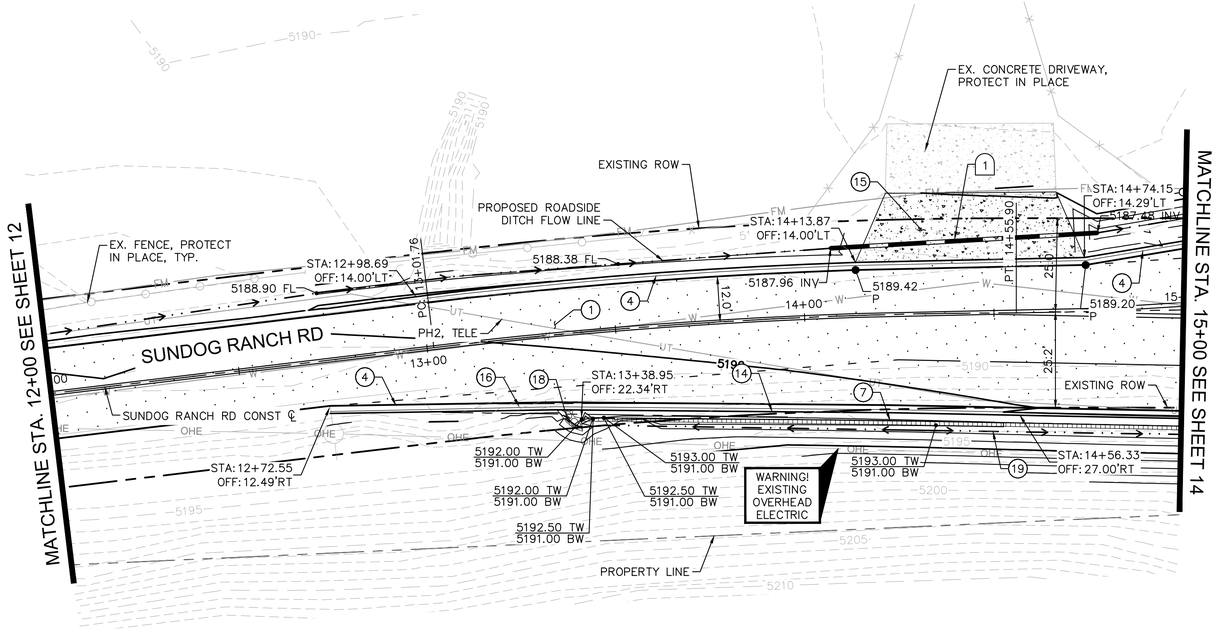
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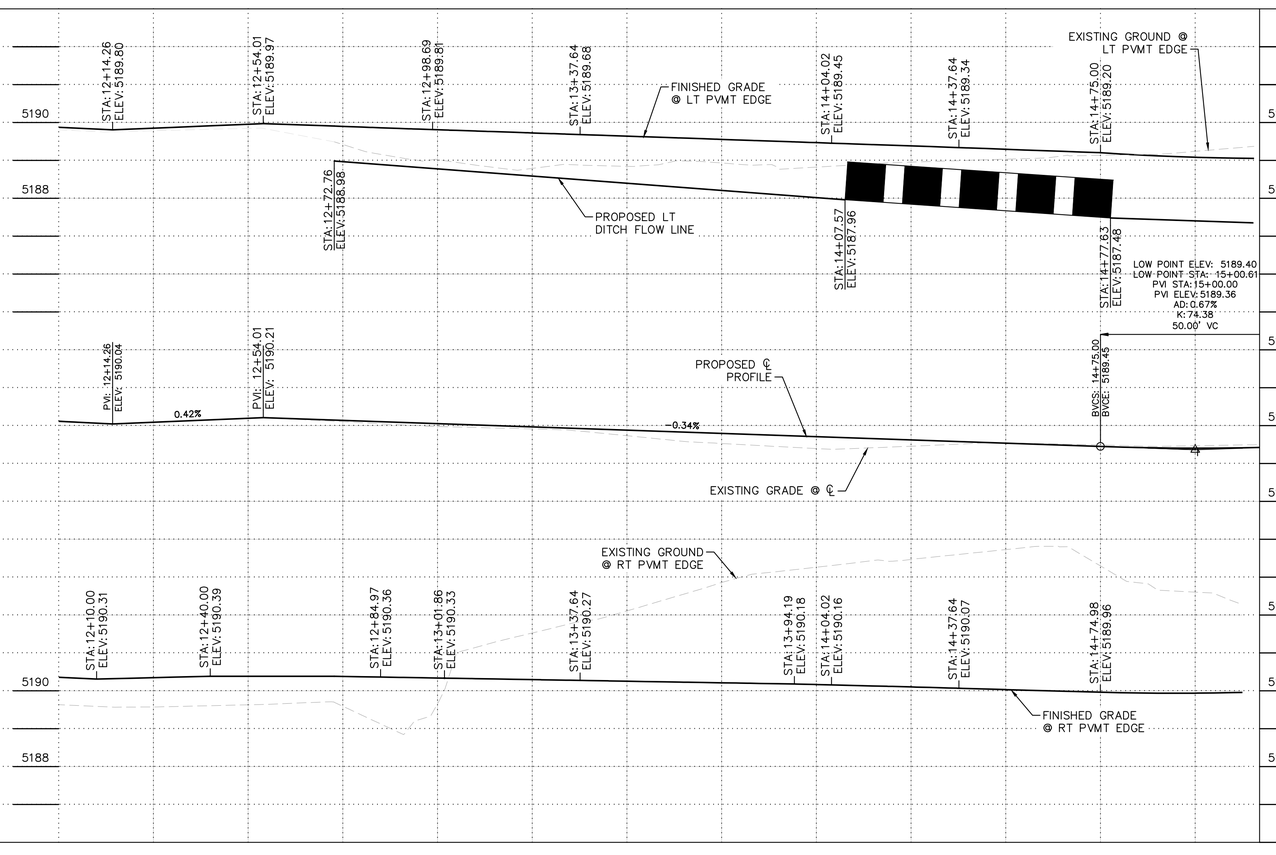
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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040-FEE BOOTH AND SCALE\CADD\07_SHEETS\ROADWAY\RD04.DWG





CONSTRUCTION NOTES

NO	DESCRIPTION
1	5" ASPHALT PAVEMENT ON 8" AGGREGATE BASE COURSE PER STRUCTURAL SECTION ON SHEET 06.
4	ROLL CURB AND GUTTER 'TYPE C' PER QUAD CITY STD. DTL. 220Q–1.
7	CONSTRUCT VERSA–LOK BLOCK RETAINING WALL OR APPROVED EQUAL PER MANUFACTURER'S RECOMMENDATIONS. SEE PLAN SHEETS FOR WALL HEIGHTS.
14	ROLL CURB AND GUTTER 'TYPE D' PER QUAD CITY STD. DTL. 220Q–1.
15	CONSTRUCT 6" CONCRETE PAVEMENT PER QUAD CITY STD. DTL. DOWELLED INTO THE EXISTING PAVEMENT. MATCH SECTION IN KIND WITH A MINIMUM OF 6".
16	INSTALL TRANSITION FROM ROLL CURB AND GUTTER 'TYPE C' TO 'TYPE D'.
18	RIPRAP, D/50=6", DEPTH=12"
19	INSTALL TOP OF WALL SWALE PER DETAIL ON SHEET 4.

DRAINAGE NOTES

NO.	DESCRIPTION
1	12" HDPE, N–12 DUAL WALL PIPE. TRENCH AND BACKFILL PER QUAD CITY STD. DTL. 200Q–1

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL

0 1 2 4
VERTICAL

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DWG. NO. RD02 | DATE 02/23/2024 | SHEET NO. 13 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION ROADWAY PLAN

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY: DLP | CHECKED BY: JRW | FOR: COP

Registered Professional Engineer
CERTIFICATE NO.
69250
JAMES R. WARNE
2/23/24
Signed
ARIZONA, U.S.A.

Kimley»Horn

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PHONE: 928–458–7121
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ENGINEER | CITY

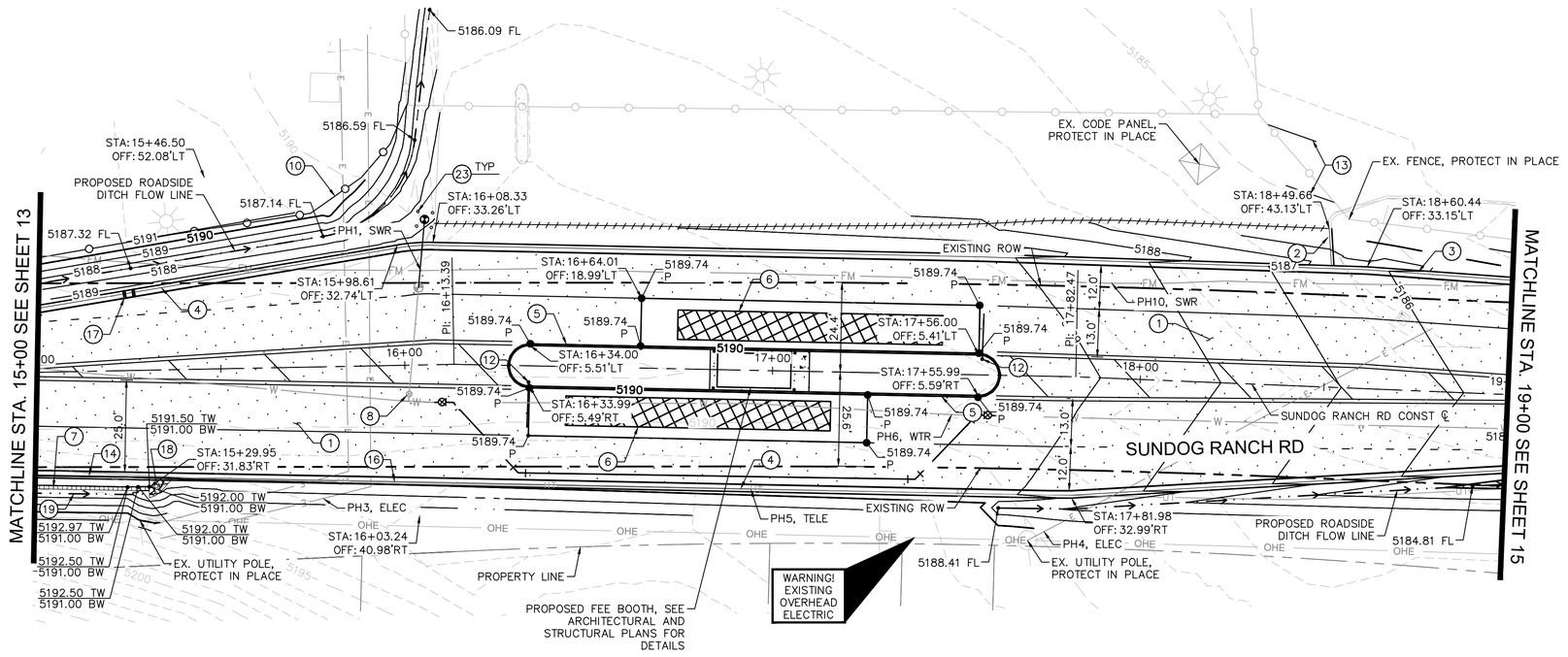
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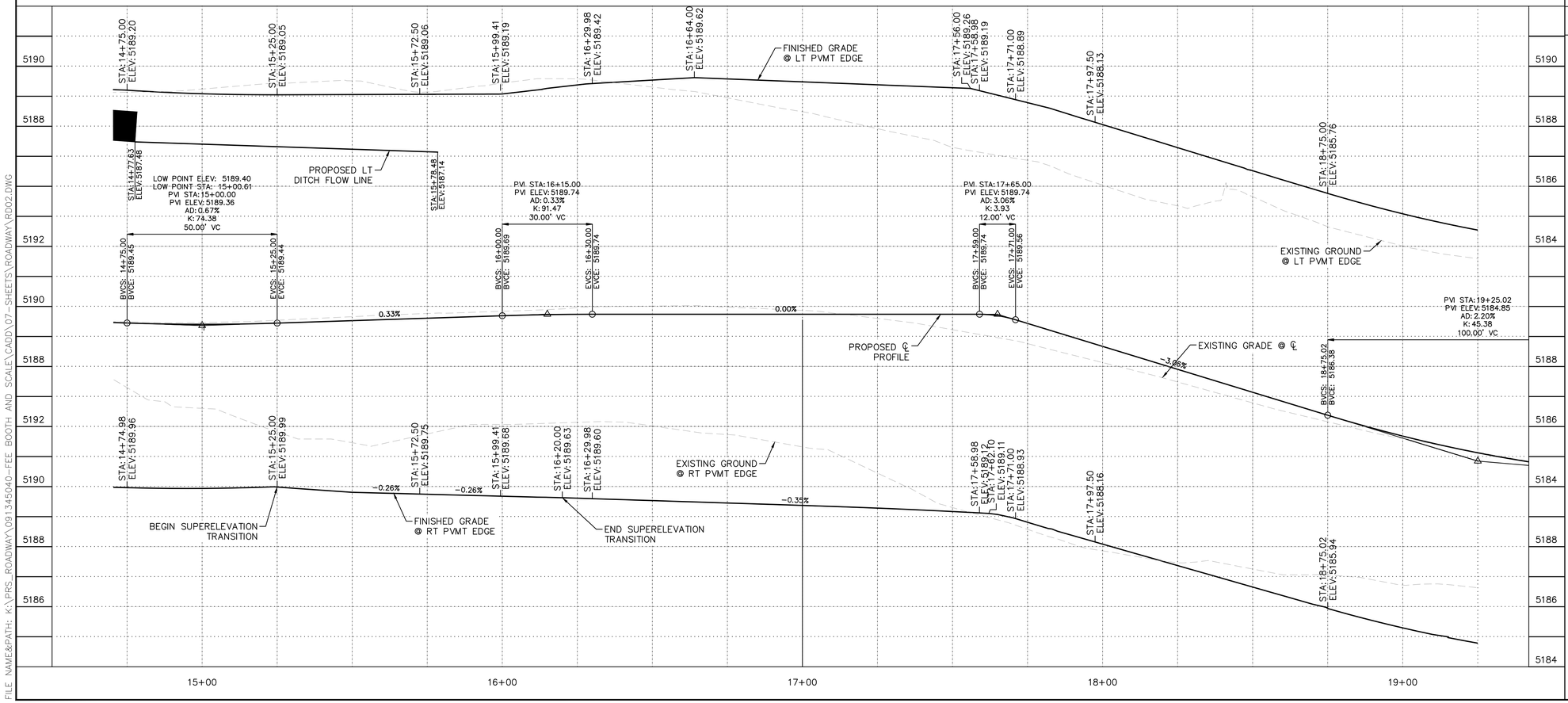
REVIEW:

CIP #: 2208-002

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040–FEE BOOTH AND SCALE\CADD\07–SHEETS\ROADWAY\RD01.DWG





CONSTRUCTION NOTES

NO	DESCRIPTION
1	5" ASPHALT PAVEMENT ON 8" AGGREGATE BASE COURSE PER STRUCTURAL SECTION ON SHEET 06.
2	CURB TRANSITION PER MAG STD. DTL. 221Q.
3	6" VERTICAL CURB AND GUTTER PER QUAD CITY STD. DTL. 220Q–1.
4	ROLL CURB AND GUTTER 'TYPE C' PER QUAD CITY STD. DTL. 220Q–1.
5	6" SINGLE CURB 'TYPE A' PER MAG STD. DTL. 222.
6	CONSTRUCT NEW WEIGH SCALES SEE STRUCTURAL PLANS FOR DETAILS.
7	CONSTRUCT VERSA–LOK BLOCK RETAINING WALL OR APPROVED EQUAL PER MANUFACTURER'S RECOMMENDATIONS. SEE PLAN SHEETS FOR WALL HEIGHTS.
8	ADJUST WATER VALVE BOX AND COVER PER QUAD CITY STD. DTL. 391Q.
10	RESET EXISTING CHAIN LINK FENCE. SET NEW POSTS AND FOUNDATIONS PER MAG STD. DTL. 160.
12	INSTALL 12–FT WIDE SAVE–TY YELLOW ROTATING DRIVEWAY GATE OR APPROVED EQUAL PER DETAIL ON SHEET 4. YELLOW IN COLOR WITH REFLECTIVE TAPE.
13	REPLACE EXISTING SLIDING GATE WITH 24' DOUBLE SWING GATE PER MAG STD. DTL. 160. EACH GATE SHALL INCLUDE AN AUTOMATIC OPENER/CLOSER.
14	ROLL CURB AND GUTTER 'TYPE D' PER QUAD CITY STD. DTL. 220Q–1.
16	INSTALL TRANSITION FROM ROLL CURB AND GUTTER 'TYPE C' TO 'TYPE D'.
17	INSTALL CURB OPENING PER MAG STD. DTL. 226–1.
18	RIPRAP, D/50=6", DEPTH=12"
19	INSTALL TOP OF WALL SWALE PER DETAIL ON SHEET 4.
23	INSTALL FIRE HYDRANT PROTECTION POLE PER COP STD. DTL. 364P.

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL

0 1 2 4
VERTICAL

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DWG. NO. RD03 | DATE 02/23/2024 | SHEET NO. 14 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION ROADWAY PLAN

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY: DLP | CHECKED BY: JRW | FOR: COP

Registered Professional Engineer | CERTIFICATE NO. 69250 | JAMES R. WARNE | 2/23/24 | Date Signed | ARIZONA, U.S.A.

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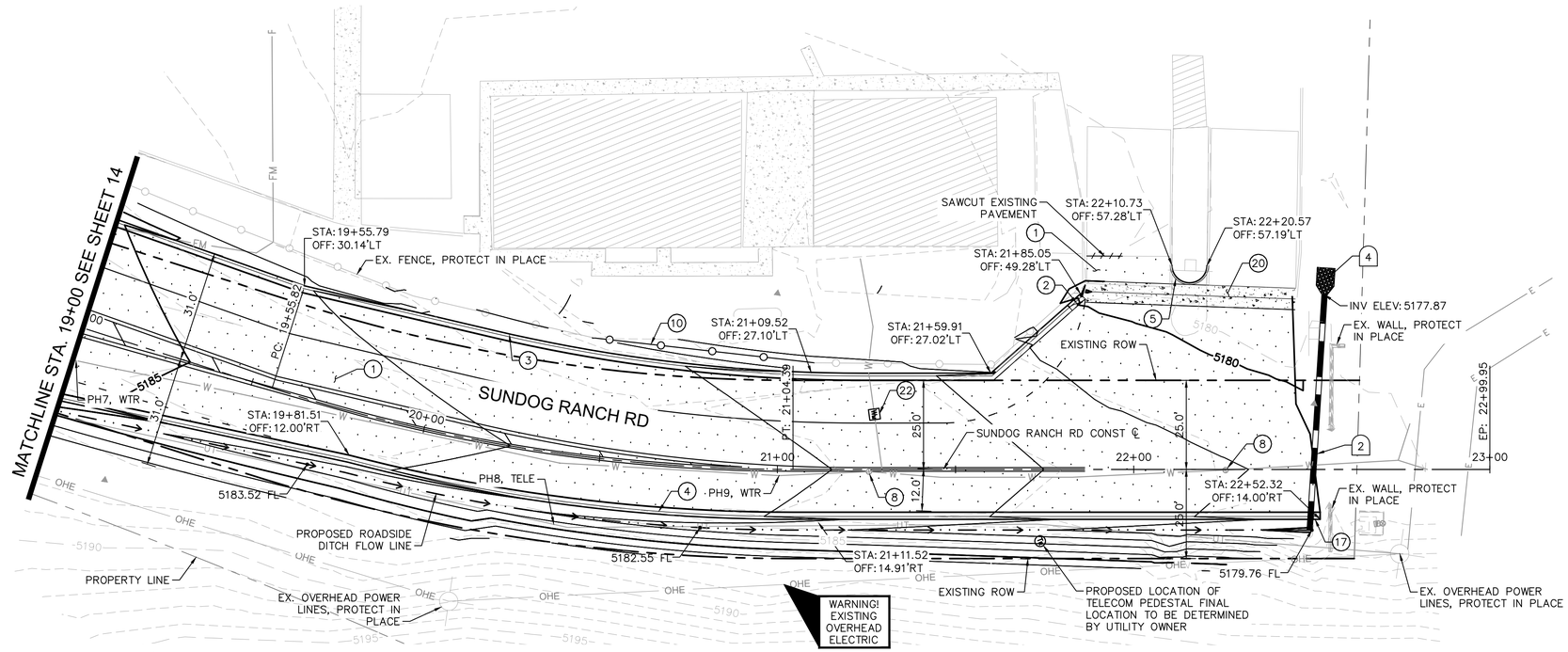
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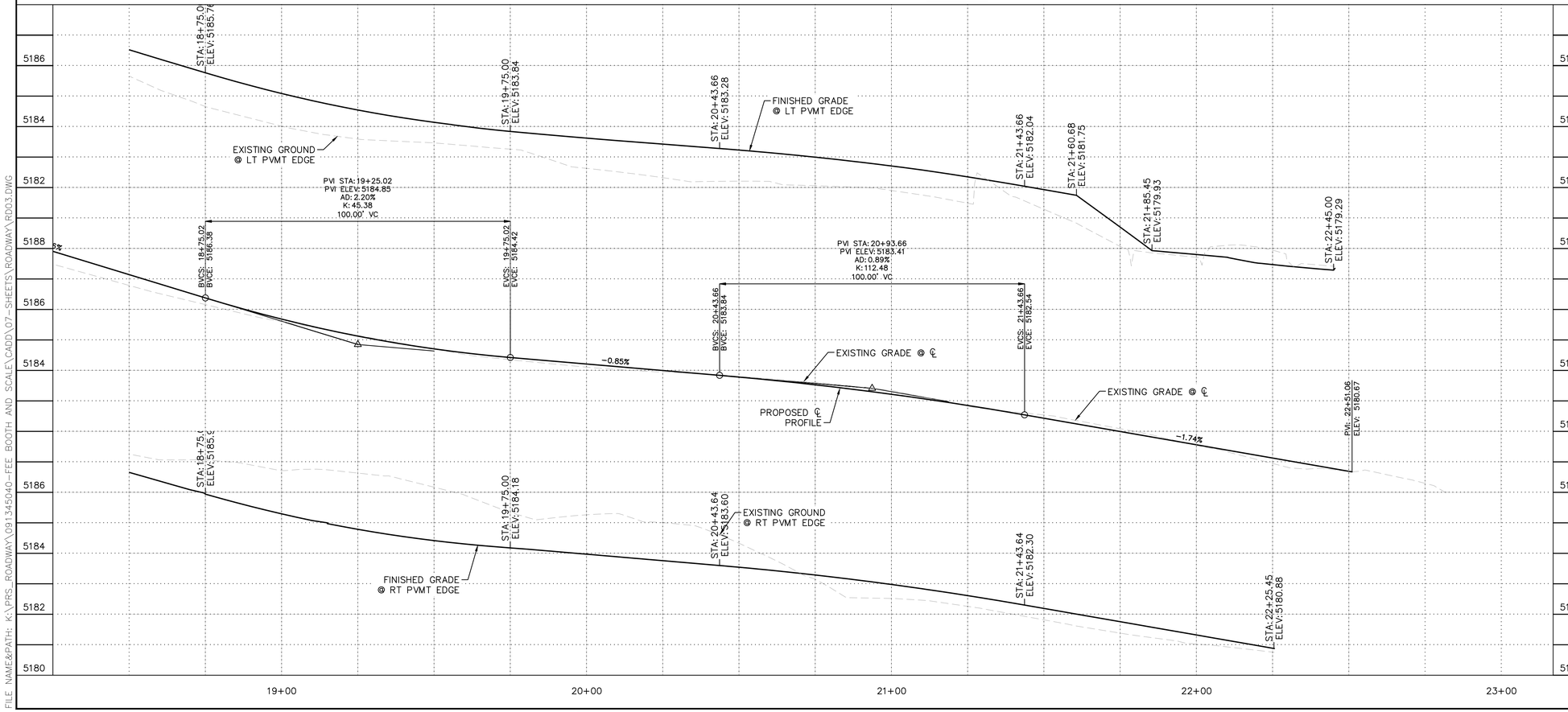
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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040–FEE BOOTH AND SCALE\CADD\07–SHEETS\ROADWAY\RD02.DWG





CONSTRUCTION NOTES

NO	DESCRIPTION
1	5" ASPHALT PAVEMENT ON 8" AGGREGATE BASE COURSE PER STRUCTURAL SECTION ON SHEET 06.
2	CURB TRANSITION PER MAG STD. DTL. 221Q.
3	6" VERTICAL CURB AND GUTTER PER QUAD CITY STD. DTL. 220Q–1.
4	ROLL CURB AND GUTTER 'TYPE C' PER QUAD CITY STD. DTL. 220Q–1.
5	6" SINGLE CURB 'TYPE A' PER MAG STD. DTL. 222.
8	ADJUST WATER VALVE BOX AND COVER PER QUAD CITY STD. DTL. 391Q.
10	RESET EXISTING CHAIN LINK FENCE. SET NEW POSTS AND FOUNDATIONS PER MAG STD. DTL. 160.
17	INSTALL CURB OPENING PER MAG STD. DTL. 226–1.
20	INSTALL 6' VALLEY GUTTER PER TO SECTION A–A PER QUAD CITY STD. DTL. 240Q–1.
22	INSTALL NEW WATER METER BOX, TRAFFIC RATED.

DRAINAGE NOTES

NO.	DESCRIPTION
2	18" HDPE, N–12 DUAL WALL PIPE. TRENCH AND BACKFILL PER QUAD CITY STD. DTL. 200Q–1
4	RIPRAP, D50=6", 1' THICK

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL

0 1 2 4
VERTICAL

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DWG. NO. RD04
DATE 02/23/2024
SHEET NO. 15 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION ROADWAY PLAN

CITY OF PRESCOTT Everybody's Hometown
PREPARED BY DLP | CHECKED BY JRW | FOR: COP

REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO. 69250
JAMES R. WARNE
2/23/24
Not Valid Unless Signed
ARIZONA, U.S.A.

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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040–FEE BOOTH AND SCALE\CADD\07–SHEETS\ROADWAY\RD03.DWG

CONSTRUCTION NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT) PER QUAD CITY STD. DTL. 106P-1
2	6" SOLID SINGLE WHITE STRIPE (PAINT) PER QUAD CITY STD. DTL. 106P-1
3	18" SOLID WHITE THERMOPLASTIC STOP BAR PER QUAD CITY STD DTL 632Q AND QUAD CITY STD. DTL. 106P-1
4	6" WHITE BROKEN PAVEMENT MARKING, 2' LINE WITH 4' GAP PER QUAD CITY STD. DTL. 106P-1
5	12" SOLID WHITE STRIPE (PAINT) PER QUAD CITY STD. DTL. 106P-1
6	ONE-DIRECTION WHITE SURFACE MOUNTED FLEXIBLE TUBULAR MARKERS PER ADOT STD. DTL. M-26

GRAPHIC SCALE IN FEET
0 10 20 40

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DWG. NO. ST01 | DATE 02/23/2024 | SHEET NO. 16 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
SIGNING AND STRIPING PLAN

CITY OF PRESCOTT Everybody's Hometown
PREPARED BY: DLP | CHECKED BY: JRW | FOR: COP

Registered professional engineer
CERTIFICATE NO. 69250
JAMES R. WARNE
Date Signed 2/23/24
ARIZONA, U.S.A.

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			APPRV
			DATE
			CITY

REVIEW:

CIP #: 2208-002

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040-FEE BOOTH AND SCALE\CADD\07-SHEETS\ROADWAY\ST01.DWG

CONSTRUCTION NOTES

NO	DESCRIPTION
1	4" SOLID DOUBLE YELLOW STRIPE (PAINT) PER QUAD CITY STD. DTL. 106P-1
2	6" SOLID SINGLE WHITE STRIPE (PAINT) PER QUAD CITY STD. DTL. 106P-1
4	6" WHITE BROKEN PAVEMENT MARKING, 2' LINE WITH 4' GAP PER QUAD CITY STD. DTL. 106P-1
5	12" SOLID WHITE STRIPE (PAINT) PER QUAD CITY STD. DTL. 106P-1
6	ONE-DIRECTION WHITE SURFACE MOUNTED FLEXIBLE TUBULAR MARKERS PER ADOT STD. DTL. M-26

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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DWG. NO. ST02
DATE 02/23/2024
SHEET NO. 17 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION SIGNING AND STRIPING PLAN

CITY OF PRESCOTT
Everybody's Hometown

PREPARED BY: DLP
CHECKED BY: JRW
FOR: COP

Registered Professional Engineer
CERTIFICATE NO. 69250
JAMES R. WARNE
2/23/24
Date Signed
ARIZONA, U.S.A.

Kimley»Horn

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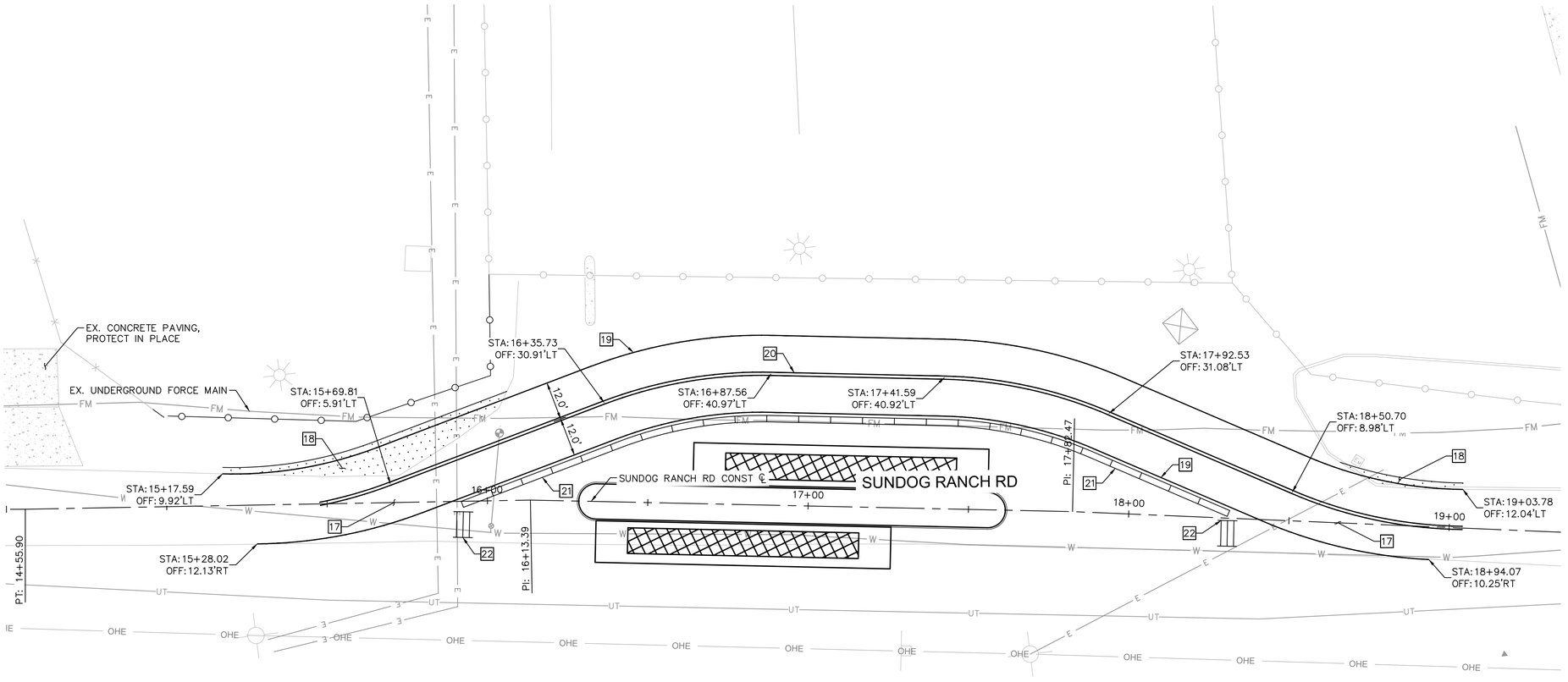
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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

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CONSTRUCTION NOTES

NO	DESCRIPTION
17	OBLITERATE EXISTING CENTERLINE MARKING
18	TEMPORARY PAVEMENT. GRADE TO MATCH EXISTING PAVEMENT, 3" ASPHALT PAVEMENT ON 6" AGGREGATE BASE COURSE
19	TEMPORARY PAVEMENT MARKING PAINTED 4" SOLID WHITE LINE
20	TEMPORARY PAVEMENT MARKING PAINTED 4" SOLID DOUBLE YELLOW LINE
21	TEMPORARY 10' K-RAIL BARRIERS
22	TYPE 3 BARRICADE WITH 36"X36" CONSTRUCTION TRAFFIC ONLY SIGN

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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DWG. NO. TC01 | DATE 02/23/2024 | SHEET NO. 18 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
TEMPORARY ACCESS PLAN

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY DLP | CHECKED BY JRW | FOR: COP

REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO. 69250
JAMES R. WARNE
Date Signed 2/23/24
ARIZONA, U.S.A.

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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040-FEE BOOTH AND SCALE\CADD\07-SHEETS\ROADWAY\TC01.DWG

TEMPORARY EROSION CONTROL NOTES

NO	DESCRIPTION	UNIT	QTY
SW	SEDIMENT WATTLE PER DTL. E1 ON SHEET 21.	LF	690
IP	INLET PROTECTION PER DTL. E2 ON SHEET 22.	EA	0
HS	HYDRO SEED PER COP TECH SPEC SECTION 430.3.2	AC	0.3
RC	ROCK CHECK DAM PER ADOT STD DTL ES10 ON SHEET EC04	EA	4

STORM WATER MANAGEMENT LEGEND

- SW — SEDIMENT WATTLE BMP SC-5
- IP — STORM DRAIN INLET PROTECTION BMP SC-8
- HS — HYDRO SEED
- RC — ROCK CHECK DAM

NOTES:

1. DISTURBED SOILS TO BE HORIZONTALLY SCARIFIED AND SEEDED IN ACCORDANCE WITH CITY OF PRESCOTT TECHNICAL SPECIFICATION SECTION 430.3.2. SEED MIX TO INCLUDE: PURPLE THREE AWN, SIDEOATS GRAMMA, BLUE GRAMMA, SAND DROPSEED AND GLODE MALLOW. CONTRACTOR TO SUBMIT SEED RATE TO CITY FOR APPROVAL. SEED SUBSTITUTION ALLOWED ONLY WITH PRIOR APPROVAL OF CITY OF PRESCOTT PUBLIC WORKS.
2. REVEGETATION PRACTICES SHALL NOT UTILIZE NITROGEN OR PHOSPHORUS CONTAINING FERTILIZERS.

GRAPHIC SCALE IN FEET
0 10 20 40

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DWG. NO. EC01 | DATE 02/23/2024 | SHEET NO. 19 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION EROSION CONTROL PLAN

CITY OF PRESCOTT — Everybody's Hometown

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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

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TEMPORARY EROSION CONTROL NOTES

NO	DESCRIPTION	UNIT	QTY
(SW)	SEDIMENT WATTLE PER DTL. E1 ON SHEET 21.	LF	272
(IP)	INLET PROTECTION PER DTL. E2 ON SHEET 22.	EA	1
(HS)	HYDRO SEED PER COP TECH SPEC SECTION 430.3.2	AC	0.1
(RC)	ROCK CHECK DAM PER ADOT STD DTL ES10 ON SHEET EC04	EA	4

STORM WATER MANAGEMENT LEGEND

- (SW) SEDIMENT WATTLE BMP SC-5
- (IP) STORM DRAIN INLET PROTECTION BMP SC-8
- (HS) HYDRO SEED
- (RC) ROCK CHECK DAM

NOTES:

1. DISTURBED SOILS TO BE HORIZONTALLY SCARIFIED AND SEEDED IN ACCORDANCE WITH CITY OF PRESCOTT TECHNICAL SPECIFICATION SECTION 430.3.2. SEED MIX TO INCLUDE: PURPLE THREE AWN, SIDEOATS GRAMMA, BLUE GRAMMA, SAND DROPSEED AND GLODE MALLOW. CONTRACTOR TO SUBMIT SEED RATE TO CITY FOR APPROVAL. SEED SUBSTITUTION ALLOWED ONLY WITH PRIOR APPROVAL OF CITY OF PRESCOTT PUBLIC WORKS.
2. REVEGETATION PRACTICES SHALL NOT UTILIZE NITROGEN OR PHOSPHORUS CONTAINING FERTILIZERS.

GRAPHIC SCALE IN FEET
0 10 20 40

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DWG. NO. EC02 | DATE 02/23/2024 | SHEET NO. 20 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION EROSION CONTROL PLAN

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

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Registered Professional Engineer | CERTIFICATE NO. 69250 | JAMES R. WARNE | 2/23/24 | Not Valid Unless Signed | ARIZONA, U.S.A.

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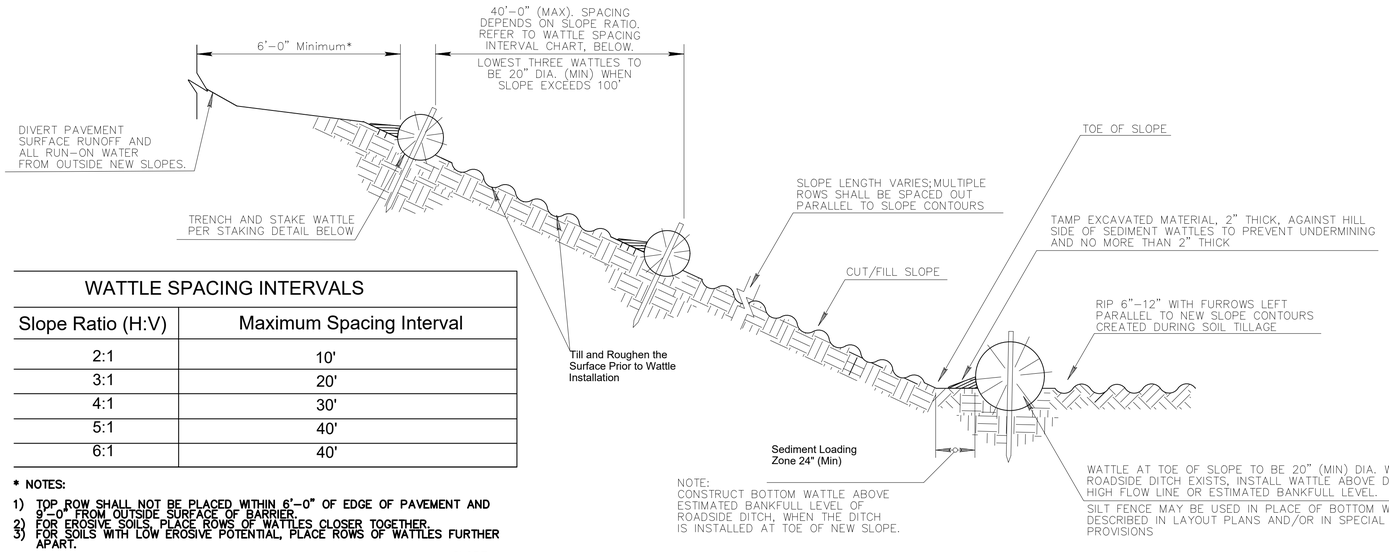
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ENGINEER

REVIEW:

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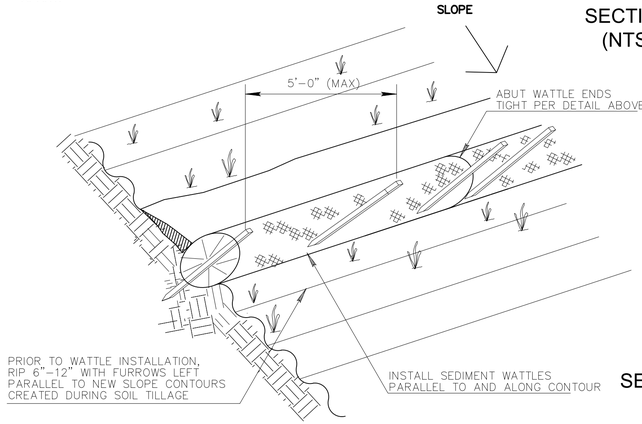


WATTLE SPACING INTERVALS	
Slope Ratio (H:V)	Maximum Spacing Interval
2:1	10'
3:1	20'
4:1	30'
5:1	40'
6:1	40'

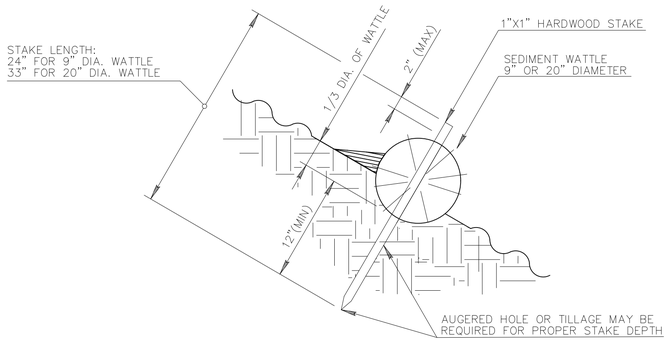
*** NOTES:**

1) **TOP ROW SHALL NOT BE PLACED WITHIN 6'-0" OF EDGE OF PAVEMENT AND 9'-0" FROM OUTSIDE SURFACE OF BARRIER.**
2) **FOR EROSIVE SOILS, PLACE ROWS OF WATTLES CLOSER TOGETHER.**
3) **FOR SOILS WITH LOW EROSIVE POTENTIAL, PLACE ROWS OF WATTLES FURTHER APART.**

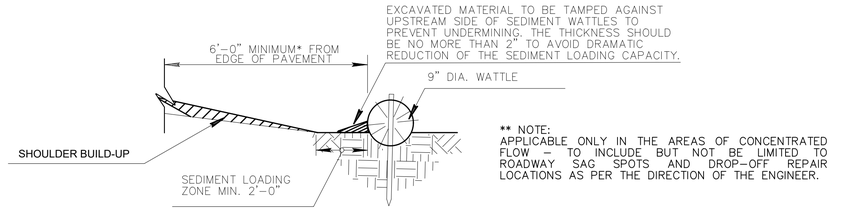
SECTION (NTS)



SEDIMENT WATTLE LAYOUT (NTS)



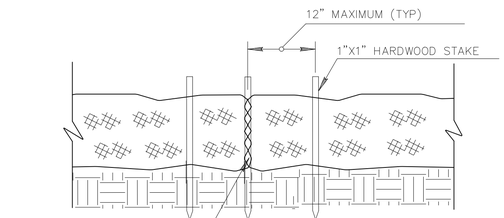
SEDIMENT WATTLE STAKING DETAIL (NTS)



** NOTE:
APPLICABLE ONLY IN THE AREAS OF CONCENTRATED FLOW - TO INCLUDE BUT NOT BE LIMITED TO ROADWAY SAG SPOTS AND DROP-OFF REPAIR LOCATIONS AS PER THE DIRECTION OF THE ENGINEER.

NEW SHOULDER BUILDUP ** PROTECTION SECTION (NTS)

NOTES:
1. INSTALL SEDIMENT WATTLES AS SLOPES ARE CONSTRUCTED TO GRADE OR AS DIRECTED BY THE ENGINEER. SELECT, INSTALL AND MAINTAIN IN CONFORMANCE WITH MANUFACTURERS' SPECIFICATIONS TO MEET SITE CONDITIONS FOR SLOPE PROTECTION AND IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES. NO SEDIMENT WATTLES SHALL BE INSTALLED IN URBAN FREEWAY MEDIANS, NOR WHERE CABLE BARRIER SYSTEMS ARE EMPLOYED.
2. SEDIMENT WATTLES SHALL BE IN CONTINUOUS CONTACT WITH TRENCH BOTTOM AND SIDES. DO NOT OVERLAP WATTLE ENDS ON TOP OF EACH OTHER. A 20" DIA. WATTLE MAY BE MADE FROM 2-3 ROLLED EXCELSIOR OR STRAW BLANKETS.
3. BUTT ADJOINING WATTLES TIGHTLY AGAINST EACH OTHER. DRIVE THE FIRST END STAKE OF THE SECOND WATTLE AT AN ANGLE TOWARD THE FIRST WATTLE TO HELP ABUT THEM TIGHTLY.
4. REPAIR ANY RILLS OR GULLIES PROMPTLY. MAKE FIELD ADJUSTMENTS AND CORRECTIONS OF WATTLE BMP IMMEDIATELY IF IT IS CAUSING FLOODING, EROSION, AND/OR AFFECTING ROADWAY SAFETY.
5. CONSTRUCTION OF CUT SLOPES 2:1 AND STEEPER IN SOIL AND ROCK MATERIALS THAT CAN BE RIPPED SHALL BE CONSTRUCTED, WHENEVER POSSIBLE, BY MINIBENCHING. REFER TO SLOPE MINIBENCHING BMP DETAIL.
6. LOOSENING SURFACE SOIL IS NOT REQUIRED WHERE MINIBENCHES ARE USED. FOR SEEDED AREAS, TILLAGE SHALL BE PERFORMED TO FORM MINOR RIDGES AND FURROWS PARALLEL TO NEW SLOPE CONTOURS AND AS SPECIFIED IN SECTION 805 OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS.
7. DIVERT AND DIRECT RUN-ON WATER FROM OUTSIDE OF THE SLOPES TO THE SPILLWAYS AND/OR ROCK RIPRAP/ROCK MULCH. DIVERSION DIKES AND/OR DITCHES ARE NECESSARY ON NATURAL UNDISTURBED SLOPES BEYOND THE TOP LIMITS OF NEW SLOPES TO DIVERT RUN-ON WATER.
8. INSTALLATION AND MAINTENANCE OF SEDIMENT WATTLE BMPS SHALL NOT NEGATIVELY IMPACT TRAFFIC SAFETY, NOR THE DESIGNED FUNCTION OF ROADWAY OR BRIDGE DRAINAGE FACILITIES.
9. INSTALL AND MAINTAIN SEDIMENT WATTLE BMPS TO CARRY THE STORMWATER OF AT LEAST 2-YEAR, 24-HOUR EVENTS.
10. THE SEDIMENT WATTLE BMP'S PAY/BID ITEM SHALL INCLUDE ALL MATERIALS USED FOR THIS BMP: ALL GROUND PREPARATION, FURNISHING, INSTALLING, MAINTENANCE, FINAL REMOVAL, AND DISPOSAL OF THIS TEMPORARY BMP, AS WELL AS RETURNING THE AREA TO AN ACCEPTABLE CONDITION AS APPROVED BY THE ENGINEER.
11. REFER TO STANDARD SPECIFICATION SECTION 810-2.06(C) FOR SEDIMENT WATTLE MATERIAL SPECIFICATIONS.
12. MAKE FIELD ADJUSTMENTS AND CORRECTIONS TO ENSURE NO SENSITIVE BIOLOGICAL RESOURCES (NATIVE SPECIES / HABITATS) WILL BE ADVERSELY IMPACTED.



SEDIMENT WATTLE OVERLAP (NTS)

DETAIL E1
BMP SC-5: SEDIMENT WATTLE

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DWG. NO. EC03 | DATE 02/23/2024 | SHEET NO. 21 OF 52

CITY OF PRESCOTT PUBLIC WORKS
SOLID WASTE SCALE AND FEE BOOTH RELOCATION
EROSION CONTROL DETAILS

CITY OF PRESCOTT Everybody's Hometown
PREPARED BY: DLP | CHECKED BY: JRW | FOR: COP

Registered professional engineer CERTIFICATE NO. 69250 JAMES R. WARNE 2/23/24 Signed ARIZONA, U.S.A.

Kimley»Horn
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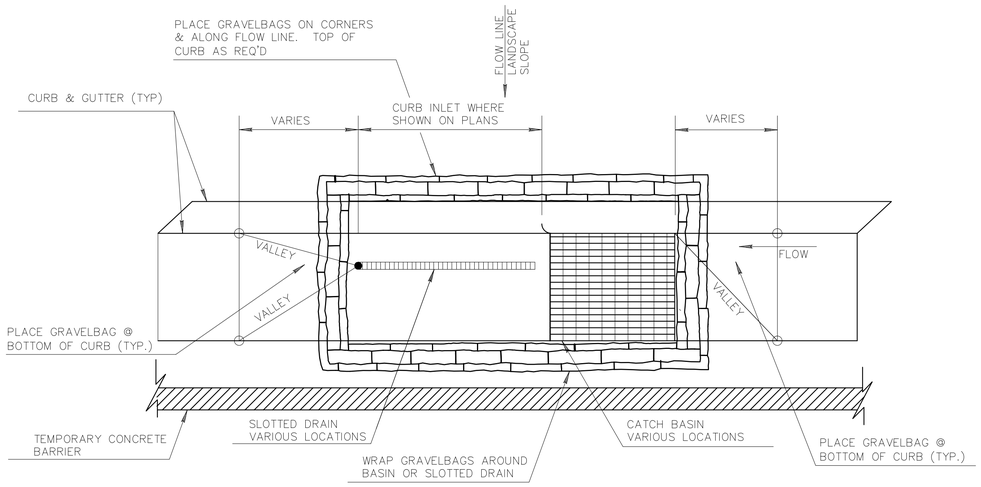
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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

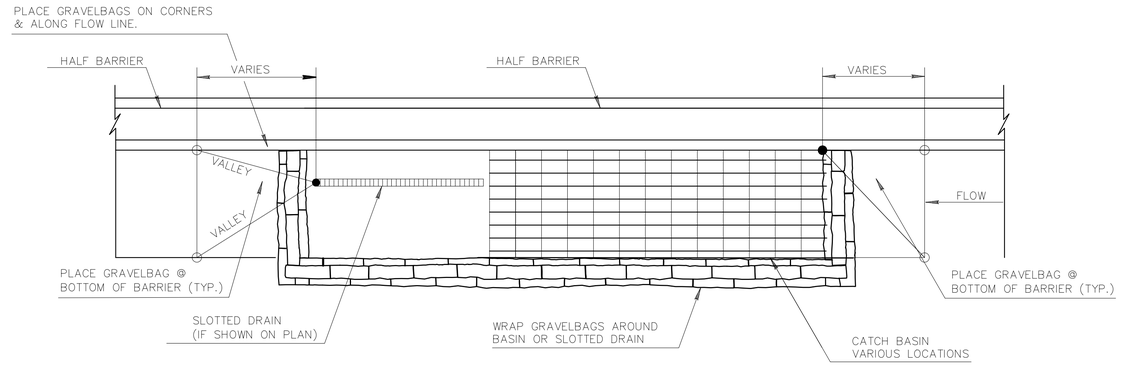
REVIEW:

CIP #: 2208-002

FILE NAME&PATH: K:\PRS_ROADWAY\091345040-FEE BOOTH AND SCALE\CADD\07-SHEETS\ROADWAY\EC03.DWG



PLAN VIEW
NTS

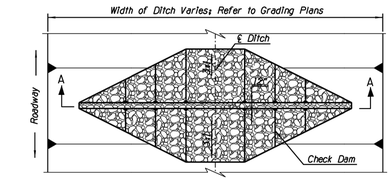


PLAN VIEW
NTS

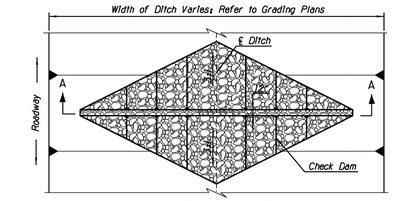
DETAIL E2

BMP SC-8: GRAVEL BAGS STORM DRAIN PROTECTION / INLET CATCH BASIN PROTECTION / DISTURBED AREA PROTECTION

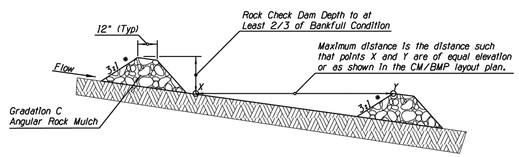
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9	ARIZ.				



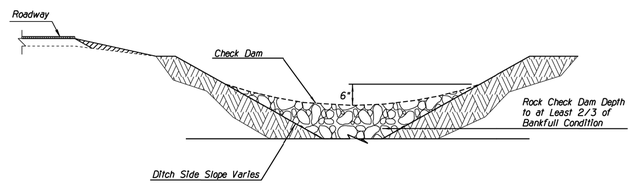
TRAPEZOIDAL DITCH PLAN (NTS)



V-DITCH PLAN (NTS)



ELEVATION ALONG DITCH SLOPE (NTS)



SECTION A-A
TRAPEZOIDAL- OR V-DITCH
(NTS)

NOTES:

1. *Construct Rock Check Dams with angular-shaped Gradation C Rock Mulch as defined in Section 810-2.03 of the Specifications and project special provisions. Natural river-run materials such as rounded river rocks/cobblestones and pebbles are NOT acceptable.*
2. *• Slope shall be 1(V) : 6(H) or flatter if Check Dam is within the traffic clear zone/recovery areas as defined in ADOT Roadway Design Guidelines (303.2 to 303.3 Roadside Recovery Area).*
3. *Make field adjustments of sizing and spacing of Rock Check Dams as necessary for traffic safety as well as proper functioning of the drainage facilities.*
4. *Flatten and re-grade Rock Check Dams to the finished grade, level within the ditch, as soon as practicable for Final Stabilization.*
5. *Make field adjustments and corrections of Rock Check Dam CM/BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.*
6. *Make field adjustments to ensure the top of the Rock Check Dam is approximately 2/3 height of the estimated ditch bankfull level.*
7. *When paid separately, the Rock Check Dam CM/BMP pay/bid item shall include all materials used for this CM/BMP; all ground preparation, furnishing, installing, maintenance, flattening/grading back to the finished grade, as well as returning the area to an acceptable condition as approved by the Engineer.*
8. *Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.*

DETAIL ES10

ROCK CHECK DAM

	NAME	DATE
DESIGN	TAO ZI FONG	6-2020
DESIGN	HAN MENG	6-2020
DRAWN	TAO ZI FONG	6-2020
DRAWN	HAN MENG	6-2020
CHECKED	JOHN R. HUCKO	6-2020
TEAM LEADER	E. LEROY BRADY	6-2020
ROUTE	LOCATION	

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION

STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS

SHEET OF

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DWG. NO. EC04
DATE 02/23/2024
SHEET NO. 22 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
EROSION CONTROL DETAILS

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY DLP | CHECKED BY JRW | FOR: COP

Registered professional engineer | CERTIFICATE NO. 69250 | JAMES R. WARNE | 2/23/24 | Signed | ARIZONA, USA

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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040-FEE BOOTH AND SCALE\CADD\07-SHEETS\ROADWAY\EC04.DWG

ELECTRICAL NOTES

1. ALL ELECTRICAL WORK, MATERIALS, EQUIPMENT, AND INCIDENTALS INCLUDING CONDUIT, WIRING, CONNECTIONS, AND TESTING SHALL BE IN FULL ACCORDANCE WITH CITY OF PRESCOTT STANDARDS AND THE LATEST EDITIONS OF THE FOLLOWING: NATIONAL ELECTRIC CODE, CAC TITLE 24 PART 3: BASIC ELECTRICAL REGULATIONS, CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT (CAL/OSHA) FOR LOW WATTAGE ELECTRICAL ORDERS, ALL APPLICABLE LOCAL LAWS, REGULATIONS, AND/OR ORDINANCES, AND CAL/OSHA CONSTRUCTION SAFETY ORDERS.
2. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER OF RECORD OF ALL SHOP DRAWINGS AND MANUFACTURERS DATA FOR PANEL BOARDS, TRANSFORMERS, WIRING DEVICES, ETC. BEFORE RELEASING ORDERED MATERIALS. SUBMITTAL DATA SHALL INDICATE THAT THE CONTRACTOR HAS REVIEWED THE INFORMATION THEREIN AND THAT THE PROPOSED EQUIPMENT WILL MEET THE PHYSICAL CONSTRAINTS AT THE JOB SITE. ANY SUBSTITUTIONS SHALL BE OF THE EQUIVALENT OR BETTER QUALITY THAN THE SPECIFIED COMPONENTS.
3. THE USE OF SERIES RATING OF UPSTREAM OR DOWNSTREAM CIRCUIT BREAKERS OR FUSES IS PROHIBITED. ONLY FULLY RATED SYSTEM COMPONENTS WILL BE ACCEPTED.
4. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 80. ALL ELBOWS AND EXPOSED RISERS SHALL BE RIGID STEEL CONDUIT.
5. VERIFY EXACT LOCATION OF PEDESTALS, CONTROLLERS, AND PULL BOXES PRIOR TO ROUGH-IN.
6. PULL ROPES: PROVIDE 1/4" DIA NYLON PULL ROPE IN EACH CONDUIT.
7. ALL MULTIPLE POLE CIRCUITS SHALL BE PROVIDED WITH HANDLE TIES AS REQUIRED BY NEC.
8. CONDUIT/ CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT THE TIME OF CONSTRUCTION.
9. PRIOR TO PURCHASE OF ANY PANEL, PROTECTIVE DEVICES, SWITCH, CONDUIT, WIRE, ETC., TO FEED ANY PIECE OF EQUIPMENT, VERIFY THE VOLTAGE, PHASE, AND LOAD OF THAT ITEM IN THE FIELD WITH THE ENGINEER OF RECORD AND EQUIPMENT MANUFACTURER (IF APPLICABLE) SUCH THAT THE PROPER SIZE & RATING OF THE MATERIALS ARE PURCHASED. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY.
10. VERIFY THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
11. ALL PANEL BOARDS, SWITCHES, AND SWITCHBOARD CIRCUIT BREAKERS SHALL HAVE ENGRAVED NAMEPLATES.
12. PROVIDE ALL PANEL BOARDS WITH TYPED DIRECTORIES INSTALLED UNDER A CLEAR PLASTIC COVER. SUBMIT DIRECTORY INFORMATION TO THE CITY OF PRESCOTT FOR APPROVAL PRIOR TO FINALIZATION.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING, AND DRIVEWAYS THAT ARE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.
14. THE PLANS SHOW THE GENERAL PATH AND LOCATION OF CONDUIT AND PULL BOXES IN RELATION TO MAJOR PHYSICAL FEATURES. THE CONTRACTOR SHALL NOTE THAT ELEMENT LOCATIONS ARE APPROXIMATE AND MAY CHANGE DURING CONSTRUCTION. THESE CHANGES MAY RESULT IN CHANGES TO CONDUIT LENGTHS ALONG WITH MINOR QUANTITY CHANGES.
15. HOLES, CAVITIES, TRENCHES, AND DEPRESSIONS RESULTING FROM THE REMOVAL OF STRUCTURES OR OBSTRUCTIONS, EXCEPT IN AREAS TO BE EXCAVATED, SHALL BE BACKFILLED WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698, D-2922 AND D-3017. SURPLUS EXCAVATION MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
16. ALL CONDUCTORS SHALL BE IDENTIFIED AT PULL BOXES, LOAD CENTERS AND FIXTURES. ALL WIRING DEVICES SHALL HAVE A TAG ON THE BACK OF THE COVER PLATE IDENTIFYING THE PANEL AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
17. ELECTRICAL SYSTEMS SHALL BE GROUNDED AND BONDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. PROVIDE GROUND WIRE FOR EACH PIECE OF EQUIPMENT AND FOR EACH BRANCH CIRCUIT.
18. ALL PROPOSED PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED IN PLANS, AND SHALL BE TAN IN COLOR.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING ELECTRICAL CONNECTIONS.
20. INSTALLATION OF EQUIPMENT, COMPONENTS, AND WIRING FOR ELECTRICAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE EQUIPMENT MANUFACTURER.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, AND HANDLING OF ALL MATERIALS AND EQUIPMENT PRIOR TO FINAL ACCEPTANCE. ANY DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
22. ALL EQUIPMENT SHALL BE "UL" LISTED. LABEL OR LISTING OF UNDERWRITER'S LABORATORIES, INC. WILL BE ACCEPTED AS EVIDENCE THAT MATERIALS OR EQUIPMENT CONFORM TO APPLICABLE STANDARDS OF THAT AGENCY.
23. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL ENERGIZE AND OPERATE THE SYSTEM FOR TWO (2) CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF ANY EQUIPMENT OR MATERIAL SHOULD FAIL, IT SHALL BE REPLACED IMMEDIATELY AND RETESTED.
24. ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ELECTRICAL WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF TWO YEARS FROM DATE OF FINAL ACCEPTANCE.
25. PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
26. NATIONAL ELECTRICAL CODE (NEC) WIRE COLOR CODING SHALL BE USED FOR ALL ELECTRICAL WORK.

LEGEND

	EXISTING UTILITY POLE
E	NEW ELECTRICAL PULL BOX
	EXISTING ELECTRICAL PANEL
	NEW LIGHT FIXTURE
	NEW ELECTRICAL CONDUIT
E001	CONDUIT SCHEDULE CALLOUT
$	SINGLE POLE SWITCH +48" AFF
	2x4 LED FIXTURE – LAY-IN
	LED WALL PACK
	120V GFCI DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE +18" AFF
	120V DUPLEX CONVENIENCE RECEPTACLE +18" AFF
	120V DOUBLE DUPLEX CONVENIENCE RECEPTACLE +18" AFF
J	JUNCTION BOX
$M	MOTOR RATED SWITCH
	FUSED DISCONNECT SWITCH REFER TO PLANS FOR SIZING
	PUSH BUTTON
CR	CARD READER
	SECURITY CAMERA
	DATA OUTLET

ACRONYM/ABBREVIATION DESCRIPTIONS

AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CURRENT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APS	ARIZONA PUBLIC SERVICE
AWG	AMERICAN WIRE GAUGE
DIA	DIAMETER
ENT	ELECTRICAL NON-METALLIC TUBING
FM	FLOW METER
FVNR	FULL VOLTAGE NON-REVERSING STARTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
IEEE	INSTITUTE FOR ELECTRICAL AND ELECTRONIC ENGINEERS
KW	KILOWATT
KVA	KILOVOLT AMPERES
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MCC	MOTOR CONTROL CENTER
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PIT	PRESSURE INDICATING TRANSMITTER
PLC	PROGRAMMABLE LOGIC CONTROLLER
PRV	PRESSURE RELIEF VALVE
PVC	POLYVINYL CHLORIDE
RTU	REMOTE TELEMETRY UNIT
SCCR	SHORT CIRCUIT CURRENT RATING
SES	SERVICE ENTRANCE SECTION
SS	STAINLESS STEEL
TSP	TWISTED SHIELDED PAIR
UBC	UNIFORM BUILDING CODE
UL	UNDERWRITERS LABORATORY
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS, WIRE
WP	WEATHERPROOF
WWTP	WASTE WATER TREATMENT PLANT
XFMR	TRANSFORMER
3P	THREE PHASE

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DWG. NO. EL01 | DATE 02/23/2024 | SHEET NO. 23 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

ELECTRICAL GENERAL NOTES AND LEGEND

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY: DLP | CHECKED BY: JRW | FOR: COP

Registered Professional Engineer (Electrical) CERTIFICATE NO. 50368 MICHAEL A. COLOMBO Date Signed 02/23/24 ARIZONA U.S.A.

Exp. Date 12/31/24

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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040-FEE BOOTH AND SCALE\CADD\07-SHEETS\LIGHTING\EL01.DWG

ELECTRICAL SPECIFICATIONS

PART ONE - GENERAL

1.1. THE WORK: ALL WORK SHALL BE NEW UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE THE WORK SHOWN ON THE DRAWINGS AND SPECIFIED FOR ITS INDIVIDUAL SECTIONS OF WORK. THE WORD "WORK" IS DEFINED AS ALL LABOR, TRANSPORTATION, MATERIAL, EQUIPMENT, TOOLS, INSTALLATION, SUPERVISION AND ANY OTHER INCIDENTAL ITEMS OR SERVICES NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS, WHICH SHALL BE PROVIDED BY THIS CONTRACTOR WHETHER OR NOT SPECIFICALLY INDICATED OR NOTED.

1.2. RESPONSIBILITY: THIS CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ACTIONS OF ITS PERSONNEL, SUPPLIERS, AND SUB-CONTRACTORS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ALL WORK AS MAY BE REQUIRED TO ACCOMMODATE OR SUPPORT THE ELECTRICAL WORK. EXAMPLES: PAINTING, STRUCTURAL SUPPORTS, CUTTING AND PATCHING, EXCAVATION AND BACKFILL, CONCRETE PADS, ROOF JACKS, ETC. REQUIRING THIS CONTRACTOR'S ENGAGEMENT OF APPROPRIATE TRADES TO PERFORM SUCH WORK FOR THE PROPER INSTALLATION AND OPERATION OF COMPLETE ELECTRICAL SYSTEMS.

1.3. MINIMUM REQUIREMENTS: THESE SPECIFICATIONS ESTABLISH THE MINIMUM REQUIREMENTS FOR THE WORK AND MATERIALS, EQUIPMENT AND METHODS TO BE PROVIDED. THE DRAWINGS MAY INDICATE REQUIREMENTS WHICH EXCEED THESE MINIMUMS.

1.4. GENERAL CONDITIONS: ALL GENERAL CONDITIONS, SPECIAL REQUIREMENTS OR GENERAL REQUIREMENTS OF THE CONSTRUCTION SPECIFICATIONS ARE MADE PART OF THIS SPECIFICATION AND HAVE THE SAME FORCE AND EFFECT AS IF COMPLETELY REPRODUCED.

1.5. DEFINITIONS:
AHJ: AUTHORITY HAVING JURISDICTION.
ASSEMBLY: AN INSTALLATION OR SYSTEM OF MULTIPLE COMPONENTS REQUIRING MULTIPLE CONNECTIONS. (EXAMPLES: TRASH COMPACTOR, MOTORIZED DOOR, HVAC SPLIT SYSTEM, ETC.).
EQUAL: ACCEPTED BY THE ENGINEER AS EQUAL.
FF&E: FURNISHINGS, FIXTURES AND EQUIPMENT - PROVIDED BY OTHERS AT JOBSITE. RECEIVE, PROTECT, STORE, ASSEMBLE, INSTALL AND CONNECT. PROVIDE MINIMUM 5X STRUCTURAL BACKING. (EXAMPLES: CHANDELIERS, PROJECTORS, ETC.).
PROVIDE: FURNISH, INSTALL, ACTIVATE, AND COMMISSION.

1.6. CODES: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), THE 2015 EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC), AND ALL OTHER ADOPTED APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

1.7. PERMITS: PAY ALL FEES AND OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED FOR THE WORK.

1.8. DRAWINGS: DRAWINGS ARE DIAGRAMMATIC AND SCHEMATIC IN NATURE, AND INDICATE THE TYPE, SIZE, ARRANGEMENT AND LOCATIONS OF MATERIALS AND EQUIPMENT. WORK INCLUDES CERTAIN COMPONENTS, APPURTENANCES, AND RELATED SPECIALTIES THAT MAY NOT BE SHOWN. PROVIDE ALL NECESSARY ITEMS TO COMPLETE THE WORK ACCORDING TO INDUSTRY STANDARDS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO REQUIRE FINISHED WORK, TESTED AND READY FOR OPERATION. DO NOT SCALE DRAWINGS. ARRANGEMENT OF EQUIPMENT AND ROUTING OF FEEDERS AND BRANCH CIRCUITING SHALL BE PLUMB AND AT RIGHT ANGLES TO BUILDING CONSTRUCTION, AND MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS REQUIRING ONSITE REVISIONS DURING CONSTRUCTION. (SEE ALSO "BIDDING").

1.9. COORDINATION: THIS PROJECT REQUIRES A HIGH LEVEL OF COORDINATION AND COOPERATION WITH OWNER, ARCHITECT, OTHER TRADES, VENDORS, AND SPECIALTY CONTRACTORS. CAREFULLY EXAMINE ALL CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, SHOP DRAWINGS, ETC. FOR ALL GENERAL CONSTRUCTION, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND SPECIALTY CONTRACTOR WORK. PRIOR TO ROUGH-IN, COORDINATE THE WORK WITH ALL OTHER TRADES, TAKING RESPONSIBILITY FOR THE PROPER FITTING OF MATERIAL INTO THE BUILDING AS PLANNED WITHOUT INTERFERENCE WITH OTHER WORK. ESTABLISH AND VERIFY LOCATIONS, HEIGHTS, CONNECTION METHODS, ETC. WITH EQUIPMENT INSTALLER (AND OWNER, ARCHITECT, AND/OR INTERIOR DESIGNER FOR FF&E ITEMS) AND MAKE REASONABLE MODIFICATIONS IN THE LAYOUTS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES IN ORDER TO PROVIDE ACCESS FOR THE PROPER EXECUTION OF THE WORK.

1.10. IDENTICAL: ALL WORK REQUIRED FOR IDENTICAL ITEMS AND ASSEMBLIES OF THE PROJECT SHALL BE PROVIDED, ALTHOUGH EACH SPECIFIC IDENTICAL ITEM MAY NOT BE SHOWN IN DETAIL.

1.11. VERIFICATION: CHECK AND VERIFY ALL SIZES, DIMENSIONS, AND CONDITIONS BEFORE STARTING ANY WORK. ANY DEVIATION(S) OR PROBLEM(S) SHALL BE TRANSMITTED TO THE ENGINEER FOR REVIEW.

1.12. CONNECTIONS: CONNECT ALL EQUIPMENT, SYSTEMS, AND ASSEMBLIES PROVIDED BY OTHERS INCLUDING CONTROLS, SAFETY DEVICES AND INTERCONNECTIONS. EXCEPTION: DO NOT INTERCONNECT THE CONTROL SYSTEMS OF THOSE MECHANICAL AND PLUMBING SYSTEMS WHICH ARE SPECIFICALLY NOTED TO BE THE RESPONSIBILITY OF THOSE TRADES. PROVIDE FUSIBLE DISCONNECT SWITCHES AND MOTOR STARTERS FOR ALL EQUIPMENT EXCEPT THOSE ITEMS WHICH ARE SPECIFICALLY LISTED WITH INTEGRAL STARTERS/DISCONNECT SWITCHES. WHERE STARTERS AND/OR DISCONNECT SWITCHES ARE FURNISHED TOGETHER WITH EQUIPMENT, RECEIVE, INSTALL AND CONNECT THOSE ITEMS.

1.13. SUBMITTAL: SUBMIT TO THE ENGINEER COMPLETE ELECTRONIC SETS OF SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR ALL EQUIPMENT AND MATERIALS SPECIFIED HEREIN. THE ENGINEER SHALL REVIEW SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ISSUE A WRITTEN ASSESSMENT TO THE OWNER PRIOR TO COMMENCEMENT OF WORK. THE ENGINEER'S FAILURE TO CORRECT ERRORS IN THE SUBMITTAL SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM THE WORK AS SHOWN AND/OR SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENGINEERING FEES NECESSARY TO CHANGE PROJECT DOCUMENTS BASED ON ALTERNATE SUBMITTAL PACKAGES/EQUIPMENT SUBSTITUTIONS.

1.14. OR-EQUAL SUBSTITUTIONS: ALL PROPOSED "OR EQUAL" SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR CONSIDERATION PRIOR TO BIDDING AND AFTER ALL REQUIREMENTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT AND/OR MATERIALS HAVE BEEN COORDINATED WITH OTHER BUILDING TRADES, INCLUDING ALL MECHANICAL, STRUCTURAL, AND/OR ARCHITECTURAL ELEMENTS. THE OWNER'S REPRESENTATIVE SHALL PRE-APPROVE ANY PROPOSED SUBSTITUTION IN WRITING. IDENTIFY AND ANNOTATE ALL REVISED REQUIREMENTS PER BUILDING TRADE ON THE SHOP DRAWINGS. ALSO IDENTIFY ALL COST DEBITS OR CREDITS IN WRITING FOR THE PROPOSED CHANGES PER BUILDING TRADE AND SUMMARIZE THESE AS A TOTAL NET-TO-OWNER CHARGE OR CREDIT FOR CONSIDERATION.

1.15. AS-BUILT: UPON COMPLETION OF CONSTRUCTION, SUPPLY THE ENGINEER WITH AS-BUILT DOCUMENTS ACCURATELY SHOWING THE MATERIALS AND EQUIPMENT AS INSTALLED. PROVIDE OPERATION AND MAINTENANCE MANUAL(S) CONTAINING APPROVED SHOP DRAWINGS, OPERATING AND MAINTENANCE INSTRUCTION FOR SWITCHGEAR, LIGHTING FIXTURES, CONTROLS, AND SPECIALTY EQUIPMENT.

1.16. GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A MINIMUM OF ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER (LONGER IF REQUIRED BY GENERAL AND/OR SPECIAL CONDITIONS). IN ADDITION, THE INSTALLATION SHALL BE GUARANTEED TO PERFORM AS SPECIFIED AND FULFILL EACH AND EVERY REQUIREMENT OF THE DRAWINGS AND SPECIFICATIONS WHEN OPERATED IN ACCORDANCE WITH THE CONTRACTOR'S INSTRUCTIONS. SHOULD THE INSTALLATION IN ANY WAY FAIL TO DO SO, THE CONTRACTOR WILL, WITHOUT DELAY AND WITHOUT COST TO THE OWNER, PROVIDE WHATEVER ADDITIONAL EQUIPMENT, MATERIAL, AND LABOR REQUIRED TO CORRECT THE DEFICIENCY AND COMPLY WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. WHERE SPECIFIED EQUIPMENT HAS A LONGER GUARANTEE PERIOD, THE TERMS OF THAT GUARANTEE SHALL GOVERN (EXAMPLE: LED SYSTEM WITH 5 YEAR GUARANTEE). INCANDESCENT LAMPS ARE EXEMPT BUT SHALL BE NEW AND UNUSED AT THE TIME OF FINAL ACCEPTANCE.

BIDDING

1.17. SITE VISIT: CONTRACT DOCUMENTS INDICATE NEW WORK TO BE PERFORMED AND DO NOT PURPORT TO SHOW ALL EXISTING CONDITIONS. VISIT THE SITE PRIOR TO SUBMITTING A BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS. COMPARE THE WORK SPECIFIED IN THE CONTRACT DOCUMENTS AGAINST EXISTING CONDITIONS AND IDENTIFY AND ANNOTATE ALL WORK OR CONDITIONS THAT ARE DIFFERENT FROM THE CONTRACT DOCUMENTS OR THEIR INTENT. UPON DISCOVERY, IMMEDIATELY NOTIFY AND REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER. NO EXTRAS OR CHANGE ORDERS WILL BE ALLOWED FOR FAILURE TO PERFORM THE PRE-BID SITE VISIT.

1.18. BASIS OF PROPOSAL: PROPOSAL SHALL BE BASED ON MANUFACTURERS AND MODELS AS LISTED UNLESS "OR EQUAL" IS INDICATED. PROVIDE SUBSTITUTION REQUESTS A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO BID DATE CLOSING TO ALLOW TIME FOR DUE CONSIDERATION OF PROPOSED ALTERNATE AND SUBSEQUENT NOTIFICATION TO ALL OTHER BIDDERS IN THE EVENT SUBSTITUTION IS DEEMED ACCEPTABLE. DETERMINATION OF SUBSTITUTION EQUALITY RESTS SOLELY WITH THE ENGINEER.

1.19. VALUE ENGINEERING (V.E.) INITIATIVES: IN ADDITION TO THE "AS SPECIFIED/OR EQUAL" BASE BID, A COST REDUCTION INITIATIVE(S) MAY BE PROPOSED BASED ON SUBSTITUTIONS OF EQUIPMENT, MATERIALS, AND/OR METHODS. EACH SUCH PROPOSAL SHALL INCLUDE A DATA SHEET(S) ON THE SPECIFIED ITEM(S), THE PROPOSED SUBSTITUTE(S), AND THE NET CREDIT TO THE OWNER, INCLUDING ALL CREDITS AND CHARGES FROM ALL MEMBERS OF THE CONSTRUCTION TEAM. THE ENGINEER WILL REVIEW AND RENDER AN OPINION TO THE OWNER. IF THE V.E. INITIATIVE IS DECLINED, PROVIDE THE SPECIFIED EQUIPMENT/MATERIAL/METHOD. IF THE V.E. INITIATIVE IS ACCEPTED, AND IF SUCH ACCEPTANCE RESULTS IN A REQUIREMENT TO REVISE ANY DESIGN DOCUMENTS, THE CHARGES FOR THESE REVISIONS SHALL BE BILLED TO THE CONTRACTOR AND THE INVOICING SHALL BE SETTLED BEFORE THE PROJECT IS SIGNED OFF FOR FINAL ACCEPTANCE.

1.20. BIDDING: THE CIVIL, ARCHITECTURAL, MECHANICAL, KITCHEN, AND/OR INTERIOR DRAWINGS CONTAIN DETAILED DESCRIPTIONS, CIRCUITING, AND CONNECTION REQUIREMENTS WHICH ARE PART OF THIS CONTRACTOR'S RESPONSIBILITIES. DO NOT SUBMIT BIDS ON THIS PROJECT PRIOR TO REVIEWING ALL PROJECT DRAWINGS, SPECIFICATIONS, AND ADDENDA.

1.21. SPECIFICATIONS BOOK: THE SPECIFICATIONS CONTAIN SIGNIFICANT INFORMATION, CONDITIONS, AND PROCEDURES WHICH MAY HAVE A SUBSTANTIAL IMPACT ON THIS CONTRACTOR'S COSTS. DO NOT SUBMIT A BID ON THIS PROJECT UNLESS THE SPECIFICATIONS HAVE BEEN THOROUGHLY REVIEWED. THE GENERAL NOTES CONTAINED HEREIN ARE COMPLIMENTARY TO THE SPECIFICATIONS BOOK, AND IN COMPARISON, THE MORE STRINGENT REQUIREMENT(S) SHALL GOVERN.

PART TWO - PRODUCTS

2.1. EQUIPMENT STANDARDS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). EQUIPMENT SHALL BE CONSTRUCTED TO NEMA STANDARDS AND SHALL BE LABELED FOR THEIR INTENDED PURPOSE BY A RECOGNIZED TESTING AGENCY ACCEPTABLE TO THE AHJ (U.L., CSA, ETL, ETC.).

2.2. ACCEPTABLE MANUFACTURERS AND SUPPLIERS: WHERE EQUIPMENT AND MATERIALS ARE NOT SPECIFIED BY NAME THEY ARE DEEMED TO GENERIC, SUBJECT TO THE REQUIREMENTS LISTED HEREIN. THESE MANUFACTURERS ARE CONSIDERED CAPABLE OF OFFERING EQUIVALENT PRODUCTS. MINIMUM STANDARD IN ALL INSTANCES IS COMMERCIAL GRADE:
SWITCHGEAR: EATON, GENERAL ELECTRIC, SIEMENS, SQUARE D
LIGHT FIXTURES: ACUITY, COOPER, HUBBELL, THOMAS
WIRING DEVICES: HUBBELL, LEVITON, LEGRAND, WIREMOLD

2.3. CIRCUITING: ALL WIRING SHALL BE IN CONDUIT, CONCEALED WHERE POSSIBLE EXCEPT WHERE NOTED. EMT WITH STEEL INSULATED THROAT SET SCREW FITTINGS MAY BE USED IN DRY, PROTECTED INTERIOR LOCATIONS. PVC SCHEDULE 40 SHALL BE USED BELOW GRADE AT MINIMUM -24". WRAPPED RIGID ELBOWS AND RISERS SHALL BE USED FOR ALL THROUGH-GRADE TRANSITIONS AND STUB-UPS. RGS OR IMC CONDUIT WITH THREADED FITTINGS SHALL BE USED IN ALL LOCATIONS WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. IMC OR RIGID CONDUIT BELOW GRADE SHALL BE HALF-LAP WRAPPED WITH 20 MIL PVC TAPE. TYPE ENT RACEWAY IS NOT ALLOWED. CONNECT RECESSED AND SUSPENDED LIGHTING FIXTURES, MOTORIZED AND/OR VIBRATING EQUIPMENT WITH STEEL FLEX OR SEALTITE CONDUIT. ALL CONDUIT SHALL HAVE PULL CORD IF OTHERWISE EMPTY.

2.4. MC CABLE: HOSPITAL GRADE MC CABLE MAY BE USED ONLY WITH SPECIFIC PERMISSION FROM THE ENGINEER. MC CABLE USE SHALL BE LIMITED TO CIRCUITING SOLUTIONS IN TIGHT CONDITIONS WHERE CONDUIT AND WIRE CIRCUITING CANNOT FIT. HOMERUNS AND FEEDERS SHALL BE CONDUIT AND WIRE.

2.5. WIRING: ALL WIRE SHALL BE COPPER UNLESS OTHERWISE NOTED. ALL WIRE SHALL BE STRANDED IN SIZES #10 AWG AND LARGER WITH XHHW INSULATION. SINGLE PHASE BRANCH CIRCUITS SHALL INCLUDE A SEPARATE NEUTRAL WIRE WITH EACH PHASE WIRE. NEUTRAL SHALL BE WHITE WITH COLOR STRIPE MATCHING COLOR OF PHASE WIRE. HOMERUNS TO PANELBOARDS SHALL BE MINIMUM #10 AWG CU IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.

2.6. FUSES AND CIRCUIT BREAKERS: FUSES AND CIRCUIT BREAKERS SHALL BE SIZED PER ACTUAL RESPECTIVE APPLICATION (i.e., MOTOR CIRCUIT PROTECTOR, GROUND FAULT CIRCUIT INTERRUPTER, ARC FAULT CIRCUIT INTERRUPTER, ETC.). FUSES SHALL BE DUAL ELEMENT, CURRENT-LIMITING, AND SHALL BE INTERCHANGEABLE BETWEEN FRAME SIZES WITH STANDARD FACTORY FUSE REDUCERS. PROVIDE LOCKABLE SPARE FUSE CABINET WITH (3) SPARE FUSES OF EACH SIZE USED.

2.7. DISTRIBUTION SWITCHGEAR: SWITCHGEAR SHALL HAVE COPPER BUS AND HEAVY GAUGE HOUSINGS. SWITCHGEAR IN LOCATIONS OTHER THAN LOCKED ELECTRIC ROOMS SHALL HAVE LOCKABLE COVERS. SWITCHGEAR SHALL HAVE NO LESS THAN 20% SPARE BUSSED AND USABLE SPACE, MEASURED AS A PERCENTAGE OF THE SPACE OCCUPIED BY SPECIFIED CIRCUIT BREAKERS, SWITCHES, ETC.

2.8. SERVICE SWITCHGEAR: IN ADDITION TO THE ABOVE, SERVICE SWITCHGEAR SHALL MEET THE REQUIREMENTS OF THE SERVING UTILITY.

2.9. PANELBOARDS: PANELS SHALL HAVE COPPER BUS AND HARDWARE, BOLT-ON CIRCUIT BREAKERS, FLUSH MONO-FLAT TRIM, PIANO HINGED DOORS AND COVER (DOOR-IN-DOOR) WITH LOCKABLE MASTER-KEYED FLUSH LATCHES. FLUSH-MOUNTED PANELS SHALL HAVE EMPTY CONDUITS STUBBED TO ACCESSIBLE ATTIC SPACE: (1) 3/4" CONDUIT FOR EACH THREE (3) SPARE/SPACE CIRCUITS.

2.10. SAFETY SWITCHES: SWITCHES SHALL BE GENERAL DUTY UP TO 250 VOLTS, HEAVY DUTY ABOVE 250 VOLTS. FUSIBLE SWITCHES SHALL BE FUSED PER THE NAMEPLATE REQUIREMENTS OF THE EQUIPMENT BEING CONNECTED.

2.11. MOTOR STARTERS: STARTERS SHALL BE MINIMUM NEMA SIZE 1 WITH INTEGRAL CONTROL TRANSFORMER, RED NEON "RUN" PILOT LIGHT AND "ON-OFF-AUTO" SELECTOR SWITCH ON COVER. OVERLOAD DEVICES SHALL BE SIZED PER THE NAMEPLATE AMPERAGE OF THE EQUIPMENT BEING CONTROLLED.

2.12. CONTACTORS: CONTACTORS SHALL BE ELECTRICALLY HELD WITH "ON-OFF-AUTO" SELECTOR SWITCH ON COVER.

2.13. RATINGS: ALL ELECTRICAL EQUIPMENT SHALL BE FULLY RATED FOR BRACING IN EXCESS OF THE MAXIMUM AVAILABLE FAULT CURRENT CALCULATED AND SHOWN AT THE EQUIPMENT CONNECTION POINT WITHIN THE DISTRIBUTION SYSTEM. MINIMUM RATING SHALL BE 10K AIC.

2.14. WIRING DEVICES: WIRING DEVICES (SWITCHES, RECEPTACLES, ETC.) SHALL BE SPECIFICATION GRADE "DECORA" STYLE, MINIMUM 20-AMP RATED. COVER PLATES SHALL BE NYLON. DEVICE AND PLATE COLOR(S) SHALL BE AS SPECIFIED BY ARCHITECT OR INTERIOR DESIGNER -VERIFY PRIOR TO COMMENCEMENT OF WORK. WIRING DEVICES EXPOSED TO THE ELEMENTS SHALL HAVE WEATHERPROOF-IN-USE LOCKABLE COVERS. RAISED STEEL BOX COVERS MAY BE USED IN UTILITY AREAS. REFER TO FOOD SERVICE NOTES (IF APPLICABLE TO THIS PROJECT) FOR ADDITIONAL REQUIREMENTS.

2.15. TRANSFORMERS: TRANSFORMERS SHALL BE TYPE TP-1 MINIMUM, WITH ALUMINUM WINDINGS, RATED FOR 150°C RISE (UNLESS OTHERWISE NOTED), MOUNTED ON RUBBER-IN-SHEAR VIBRATION ISOLATORS, CONNECTED WITH FLEXIBLE CONDUIT. PUBLISHED AND MEASURED NOISE RATING SHALL NOT EXCEED NEMA TP-20 MAXIMUM.

2.16. LIGHTING FIXTURES: LIGHT FIXTURES SHALL BE PROVIDED WITH ALL ASSOCIATED HARDWARE (HANGER BARS, PENDANTS, STEMS, RESTRAINTS, CHAINS, CORDS, LAMPS, ETC.). LENSES SHALL BE ACRYLIC; REFLECTORS SHALL BE ANODIZED. FLUORESCENT BALLASTS SHALL BE ELECTRONIC, PROGRAM RAPID START, THD LESS THAN 10%. FLUORESCENT LAMPS SHALL HAVE MINIMUM CRI OF 80%. INCANDESCENT LAMPS SHALL BE 130 VOLT, INSIDE FROST, MINIMUM 2000 HOUR LIFE. LOW VOLTAGE INCANDESCENT LAMPS SHALL BE HIR HALOGEN, MINIMUM 3000 HOUR LIFE. EXTERIOR LIGHTING FIXTURES SHALL BE INSTALLED TO PREVENT WATER, DUST, AND INSECT INTRUSION, WITH GASKETING FOR DOOR/BACKPLATE AND SEALANT AT THE WIRING ENTRY POINT. REFER TO LIGHTING FIXTURE SCHEDULE WITHIN PLAN SET FOR ADDITIONAL REQUIREMENTS (LED CRITERIA, ETC.).

2.17. TAMPERPROOF: ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE DEMONSTRATED TO BE TAMPERPROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PAD LOCKABLE.

2.18. DIESEL ENGINE GENERATOR SYSTEMS: CONTRACTOR TO PROVIDE PLANS AND ELEVATIONS FOR ENGINE GENERATOR AND OTHER COMPONENTS SPECIFIED WHICH INCLUDE ACCESS REQUIREMENTS AFFECTED BY HEIGHT OF SUBBASE FUEL TANK; DETAILS OF EQUIPMENT ASSEMBLIES INDICATING DIMENSIONS, WEIGHTS, LOADS, REQUIRED CLEARANCES, METHOD OF FIELD ASSEMBLY, COMPONENTS, AND LOCATION AND SIZE OF EACH FIELD CONNECTION; IDENTIFY FLUID DRAIN PORTS AND CLEARANCE REQUIREMENTS FOR PROPER FLUID DRAIN; DESIGN CALCULATIONS FOR SELECTING VIBRATION ISOLATORS AND SEISMIC RESTRAINTS; VIBRATION ISOLATION BASE DETAILS; DIAGRAMS FOR POWER, SIGNAL, AND CONTROL WIRING WITH COMPLETE SCHEMATIC, WIRING, AND INTERCONNECTION DIAGRAMS SHOWING TERMINAL MARKINGS FOR ENGINE GENERATORS AND FUNCTIONAL RELATIONSHIP BETWEEN ALL ELECTRICAL COMPONENTS. ENGINE GENERATOR AND ASSOCIATED COMPONENTS SHALL COMPLY WITH THE FOLLOWING: ASCE, B11.19, NFPA 37, NFPA 70, UL 2200. ENGINE EXHAUST EMISSIONS SHALL COMPLY WITH EPA REQUIREMENTS FOR TIER 2, NON-ROAD. GENERATOR ENCLOSURE SHALL BE WEATHERPROOF AND LEVEL 2 SOUND ATTENUATING. GENERATOR SHALL BE STANDBY RATED FOR 500 KW, A DESIGN PF OF 0.8, NOT INCLUDING DERATION FOR THE ELEVATION ONSITE OF 5400 FEET ABOVE SEA LEVEL. THE GENERATOR SET SHALL BE EQUIPED WITH A 1000-GALLON SUBBASE TANK WITH INTEGRAL SECONDARY CONTAINMENT. START TIME 10 SECONDS. GENERATOR SYSTEM CONTROLS SHALL BE UL 508A LISTED. CONTRACTOR SHALL PROVIDE REMOTE MONITORING CAPABILITY THROUGH OWNER EXISTING METASYS SYSTEM INCLUDING GENERATOR RUN, LOW BATTERY, LOW FUEL, TROUBLE CONDITION, TRANSFER SWITCH, AND HANDOFF/AUTO. CONTRACTOR SHALL PROVIDE TESTING AND INSPECTION WITH THE ASSISTANCE OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE AS RECOMMENDED BY THE MANUFACTURER AND AS SPECIFIED IN NETA ATS AND PROVIDE A WRITTEN TEST AND INSPECTION REPORT FOR REVIEW TO THE OWNER'S ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNER'S MAINTENACE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN PACKAGE ENGINE GENERATORS. PROVIDE ALL NECESSARY PAPERWORK AND REPORTS TO FACILITIES ENGINEERING PROJECT MANAGER PRIOR TO THE CONCLUSION OF WARRANTY DATE.

2.19. TRANSFER SWITCHES: WHERE POSSIBLE, MATCH MANUFACTURER OF GENERATOR AND ATS SYSTEMS. CONTRACTOR TO PROVIDE PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR TRANSFER SWITCHES AND OTHER COMPONENTS SPECIFIED WHICH INCLUDE REQUIRED CLEARANCES, METHOD OF FIELD ASSEMBLY, COMPONENTS, AND LOCATION AND SIZE OF EACH FIELD CONNECTION; DIAGRAMS FOR POWER, SIGNAL, AND CONTROL WIRING WITH COMPLETE SCHEMATIC, WIRING, AND INTERCONNECTION DIAGRAMS SHOWING FUNCTIONAL RELATIONSHIP BETWEEN ALL ELECTRICAL COMPONENTS. SWITCHES SHALL CONFORMED TO THE REQUIREMENTS OF NFPA 70, NEMA ICS 1, NFPA 99, NFPA 110, AND UL 1008. PROVIDE NEUTRAL POLE SWITCHING TO BE SIMULTANEOUS WITH PHASE POLES. CONTRACTOR SHALL PROVIDE REMOTE MONITORING CAPABILITY THROUGH OWNER EXISTING METASYS SYSTEM INCLUDING NORMAL POWER, EMERGENCY POWER, AND HANDOFF/AUTO. TEST AND INSPECT COMPONENTS, ASSEMBLED SWITCHES, AND ASSOCIATED EQUIPMENT ACCORDING TO UL 1008. PERFORM FUNCTIONAL TESTING OF SWITCHES WITH THE ASSISTANCE OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS STATED IN NETA ATS. COORDINATE TESTS AND RUN IN CONCURRENTLY WITH GENERATOR TESTING. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNER'S MAINTENACE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN PACKAGE ENGINE GENERATORS. PROVIDE ALL NECESSARY PAPERWORK AND REPORTS TO FACILITIES ENGINEERING PROJECT MANAGER PRIOR TO THE CONCLUSION OF WARRANTY DATE.

2.20. UNINTERRUPTIBLE POWER SUPPLIES (UPS): CONTRACTOR TO PROVIDE PLANS AND ELEVATIONS FOR UPSs AND OTHER COMPONENTS SPECIFIED WHICH INCLUDE DETAILS OF EQUIPMENT ASSEMBLIES INDICATING DIMENSIONS, WEIGHTS, LOADS, REQUIRED CLEARANCES, METHOD OF FIELD ASSEMBLY, COMPONENTS, AND LOCATION AND SIZE OF EACH FIELD CONNECTION; DESIGN CALCULATIONS FOR SEISMIC RESTRAINTS; DIAGRAMS FOR POWER, SIGNAL, AND CONTROL WIRING WITH COMPLETE SCHEMATIC, WIRING, AND INTERCONNECTION DIAGRAMS SHOWING TERMINAL MARKINGS FOR UPSs AND FUNCTIONAL RELATIONSHIP BETWEEN ALL ELECTRICAL COMPONENTS. BATTERIES AND UPS SHALL BE WARRANTIED FOR REPAIR OR REPLACEMENT OF FAILED MATERIALS OR WORKMANSHIP FOR 2 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. UPS SYSTEMS SHALL BE EQUIPMENT WITH MAINTENANCE BYPASS/ISOLATION SWITCH OPERATION CAPABILITY. THE UPS AND BATTERIES SHALL BE CAPABLE OF OPERATING CONTINUOUSLY IN AMBIENT TEMPERATURES RANGING FROM 41 TO 95 DEG F WITH RELATIVE HUMIDITY FROM 0 TO 95 PERCENT, NONCONDENSING, AND AT ALTITUDE OF 5400' ABOVE SEA LEVEL. UPS COMPONENTS SHALL BE UL 1778 LISTED AND COMPLY WITH NFPA 75. THE BATTERY SHALL SUPPLY RATED FULL-LOAD CURRENT AT 0.8 POWER FACTOR FOR A MINIMUM OF 19-MINUTES. CONTRACTOR SHALL FIELD VERIFY INSTALLATION WITH EXISTING CONDITIONS AND PROVIDE EQUIPMENT SUITABLE FOR THE SPACE AND ACCESS LIMITATIONS WHERE PROPOSED. THE UPS SHALL BE EQUIPPED WITH 160 KA SURGE PROTECTION, ALL MODES OF PROTECTION. UNLESS OTHERWISE NOTED, BATTERY CHEMISTRY SHALL BE LITHIUM METAL ION. CONTRACTOR SHALL PROVIDE REMOTE MONITORING CAPABILITY THROUGH OWNER EXISTING METASYS SYSTEM INCLUDING TROUBLE ALARM, BATTERY CONDITION, BYPASS, AND NORMAL/BATTERY POWER. CONTRACTOR SHALL PROVIDE TESTING AND INSPECTION WITH THE ASSISTANCE OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE AS RECOMMENDED BY THE MANUFACTURER AND AS SPECIFIED IN NETA ATS AND PROVIDE A WRITTEN TEST AND INSPECTION REPORT FOR REVIEW TO THE ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNER'S MAINTENACE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN PACKAGE ENGINE GENERATORS. PROVIDE ALL NECESSARY PAPERWORK AND REPORTS TO FACILITIES ENGINEERING PROJECT MANAGER PRIOR TO THE CONCLUSION OF WARRANTY DATE.

PART THREE - EXECUTION

3.1. GROUNDING: GROUND ALL EQUIPMENT AND SYSTEM NEUTRAL IN ACCORDANCE WITH THE REQUIREMENTS OF NEC ARTICLE 250. PROVIDE CODE-SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS AND BRANCH CIRCUIT RACEWAYS. WHERE ISOLATED GROUNDS ARE INDICATED, PROVIDE INSULATED CONDUCTOR (GREEN WITH YELLOW STRIPE).

3.2. POWER STUDIES: CONTRACTOR TO PROVIDE ARC FLASH STUDY AND LABELLING ON ALL NEW EQUIPMENT IN ACCORDANCE WITH THE NEC AND SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW. PROVIDE EXCAVATION, RACEWAY, STRUCTURES, GROUNDING, ETC. AS DIRECTEhD. POWER SERVICES AND DISTRIBUTION SYSTEM AIC RATING SHALL EXCEED MAXIMUM AVAILABLE FAULT CURRENT THROUGH UTILITY SERVICE TRANSFORMER. CONTACT SERVING UTILITIES AND OBTAIN THEIR REQUIREMENTS PRIOR TO BID.

3.3. UTILITY SERVICES: PROVIDE POWER AND COMMUNICATIONS SYSTEM SERVICES IN CCORDANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES. CONTRACTOR TO PROVIDE ARC FLASH STUDY AND LABELLING ON ALL NEW EQUIPMENT IN ACCORDANCE WITH NEC. PROVIDE EXCAVATION, RACEWAY, STRUCTURES, GROUNDING, ETC. AS DIRECTED. POWER SERVICES AND DISTRIBUTION SYSTEM AIC RATING SHALL EXCEED MAXIMUM AVAILABLE FAULT CURRENT THROUGH UTILITY SERVICE TRANSFORMER. CONTACT SERVING UTILITIES AND OBTAIN THEIR REQUIREMENTS PRIOR TO BID. (UTILITY SERVICE AND LINE EXTENSION CHARGES PAID BY OTHERS)

3.4. TEMPORARY CONSTRUCTION POWER: PROVIDE TEMPORARY ELECTRICAL POWER DISTRIBUTION AND LIGHTING AS REQUIRED FOR ALL TRADES THAT REQUIRE SERVICE DURING THE COURSE OF THIS PROJECT IN COMPLIANCE WITH ALL NEC AND OSHA REQUIREMENTS. OWNER SHALL NOT BE RESPONSIBLE FOR TEMPORARY PO

ENLARGEMENT

GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

NORTH

CONSTRUCTION NOTES

1. INSTALL PULL BOX PER DETAIL E ON SHEET 29.
2. INSTALL STREET LIGHT POLE WITH D-SERIES SIZE 1 LED AREA LUMINAIRE MODEL NO.: DSX1 LED P1 30K 70CRI T3M MVOLT SPA. SEE DETAIL H ON SHEET 29 AND DETAIL J ON SHEET 30 FOR MORE INFORMATION.
3. TIE PORPOSED CONDUIT INTO EXISTING PULL BOX.
4. CONTRACTOR TO REMOVE EXISTING FEE BOOTH FACILITY CONDUCTORS AND REPLACE WITH PROPOSED FEE BOOTH FACILITY CONDUCTORS. COORDINATE WITH OWNER PRIOR TO DISCONNECTING EXISTING FACILITY.

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DWG. NO. EL03
DATE 02/23/2024
SHEET NO. 25 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
ELECTRICAL PLAN

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY: DLP
CHECKED BY: JRW
FOR: COP

Registered Professional Engineer
CERTIFICATE NO. 50368
MICHAEL A. COLOMBO
Date Signed 02/23/24
ARIZONA U.S.A.
Exp. Date 12/31/24

Kimley»Horn
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NO.	BY	DATE	ENGINEER
1	JRW		CITY
			APPRV
			DATE

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CIP #: 2208-002

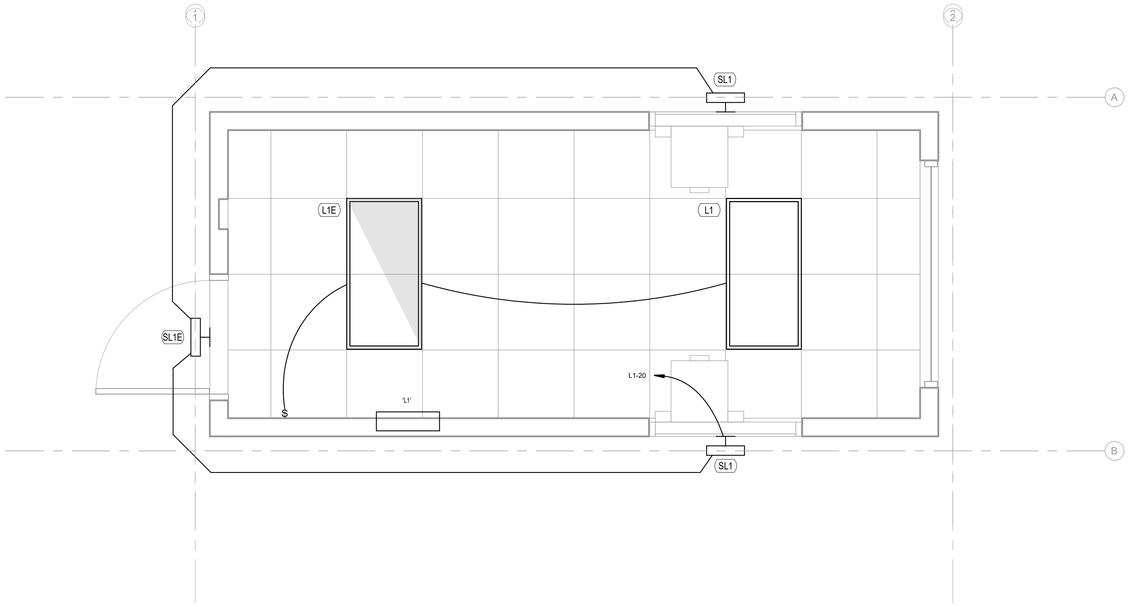
SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040-FEE BOOTH AND SCALE\CADD\07-SHEETS\LIGHTING\EL01.DWG

LIGHTING FIXTURE SCHEDULE

NOTES:
1. COORDINATE FIXTURE FINISH WITH ARCHITECT
2.
3.

MARK	QTY	MOUNTING	FIXTURE DESCRIPTION	LUMEN OUTPUT (lm)	COLOR TEMPERATURE (K)	LOAD	VOLTAGE	PHASE	MANUFACTURER	MODEL	NOTES
L1	1	CEILING, RECESSED	2x4 LED FLAT PANEL	4000	3500	37 W	120 V	1	LITHONIA LIGHTING	CPX-2X4-4000LM-80CRI-35K-SWL-MIN10-ZT-MVOLT-E10WLCP	
L1E	1	CEILING, RECESSED	2x4 LED FLAT PANEL WITH 90-MINUTE EMERGENCY BATTERY BACKUP	4000	3500	37 W	120 V	1	LITHONIA LIGHTING	CPX-2X4-4000LM-80CRI-35K-SWL-MIN10-ZT-MVOLT-E10WLCP	
SL1	2	WALL, SURFACE	ARCHITECTURAL WALL LUMINAIRE WITH PHOTOCELL CONTROL	3206	4000	24 W	120 V	1	ACUITY BRANDS LIGHTING	ARC2 LED-P3-40K-MVOLT-PE	1
SL1E	1	WALL, SURFACE	ARCHITECTURAL WALL LUMINAIRE WITH 90-MINUTE EMERGENCY BATTERY BACKUP AND PHOTOCELL CONTROL	3206	4000	24 W	120 V	1	ACUITY BRANDS LIGHTING	ARC2 LED-P3-40K-MVOLT-E8WC / PE	1



1 ELECTRICAL LIGHTING PLAN

1/2" = 1'-0"

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DWG. NO. EL04 | DATE 02/23/2024 | SHEET NO. 26 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
ELECTRICAL
LIGHTING PLAN

CITY OF PRESCOTT Everybody's Hometown
PREPARED BY DLP | CHECKED BY JRW | FOR: COP

Registered Professional Engineer (Electrical) CERTIFICATE NO. 50368 MICHAEL A. COLOMBO Date Signed 02/23/24 ARIZONA, USA
Exp. Date 12/31/24

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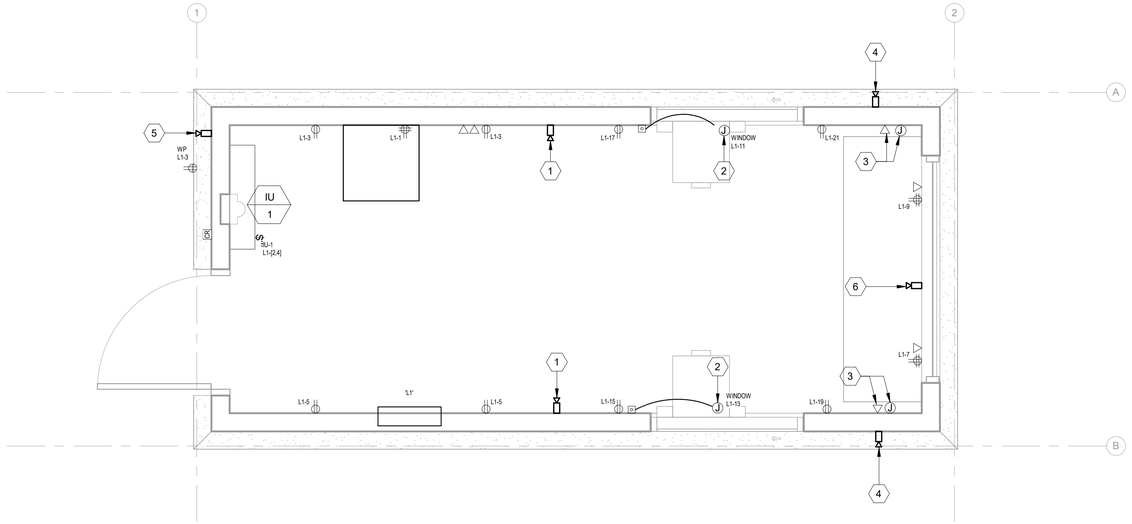
ENGINEER

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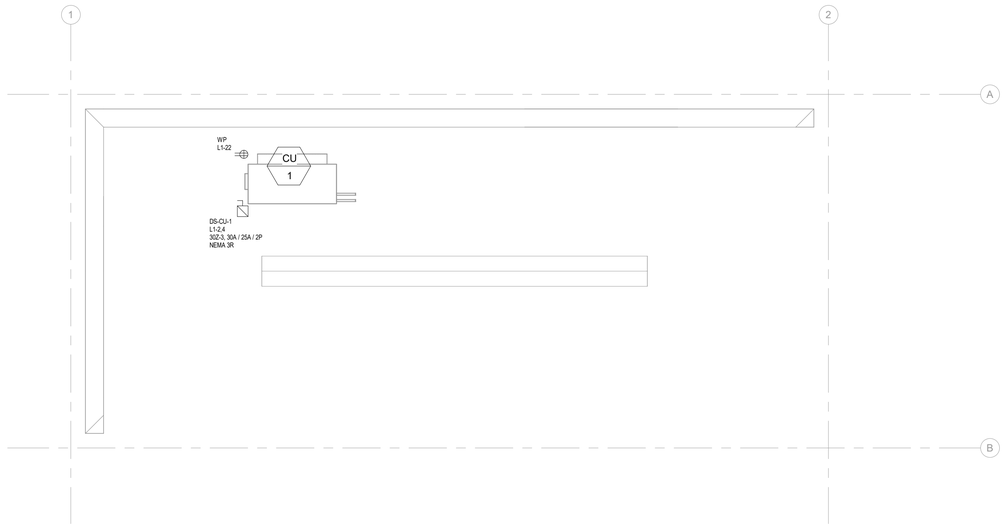
SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040-FEE BOOTH AND SCALE\CADD\07-SHEETS\LIGHTING\EL03.DWG



1 ELECTRICAL POWER AND TECHNOLOGY PLAN

1/2" = 1'-0"



2 ELECTRICAL ROOF POWER PLAN

1/2" = 1'-0"

KEYNOTES

1. SECURITY CAMERA INSTALLED AT 7'-6" AFF, AIMED AT TRANSACTION WINDOW. VERIFY CAMERA VIEW WITH OWNER.
2. COORDINATE POINT OF CONNECTION WITH WINDOW VENDOR PRIOR TO ROUGH-IN.
3. EXTEND (1) 1"C FOR POWER AND (1) 1"C FOR COMMUNICATIONS FROM THIS LOCATION TO WEIGHT DETECTION SCALE. VERIFY WEIGHT DETECTION SYSTEM REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN.
4. SECURITY CAMERA INSTALLED AT 7'-6" AFF, AIMED AT INCOMING VEHICLES. VERIFY CAMERA VIEW WITH OWNER.
5. SECURITY CAMERA INSTALLED AT 7'-6" AFF, AIMED AT BOOTH ENTRANCE. VERIFY CAMERA VIEW WITH OWNER.
6. SECURITY CAMERA INSTALLED ABOVE WINDOW, FOR GENERAL COVERAGE OF FEE STATION INTERIOR. VERIFY HEIGHT PRIOR TO ROUGH-IN. VERIFY CAMERA VIEW WITH OWNER.

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DWG. NO. EL05
DATE 02/23/2024
SHEET NO. 27 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
ELECTRICAL POWER PLAN

CITY OF PRESCOTT Everybody's Hometown
PREPARED BY DLP | CHECKED BY JRW | FOR: COP

Registered Professional Engineer (Electrical) CERTIFICATE NO. 50368 MICHAEL A. COLOMBO Date Signed 02/23/24 ARIZONA USA
Exp. Date 12/31/24

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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040-FEE BOOTH AND SCALE\CADD\07-SHEETS\LIGHTING\EL03.DWG

NEW PANEL — PANEL NAME: L1

LOCATION: Fee Booth
SUPPLY FROM: UTILITY XFMR
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/240V
PHASES: 1
WIRES: 3

AIC RATING: 10K Fully Rated
MAINS TYPE: MCB
MAINS RATING: 100 A
MCB RATING: 100 A

CKT	CIRCUIT DESCRIPTION	LOAD TYPE	TRIP	POLES	A (VA)		B (VA)		POLES	TRIP	LOAD TYPE	CIRCUIT DESCRIPTION	CKT
1	REC - DATA CABINET	R	20	1	1,500	2,400			2	25	H	CU-1 & IU-1	2
3	REC - CONV. & EXT	R	20	1			540	2,400			H		4
5	REC - CONV.	R	20	1	360	76			2	20	L	LTG - POLES	6
7	REC - WORKSTATION	R	20	1			180	76			L		8
9	REC - WORKSTATION	R	20	1	180	1,440			2	30	E	WEIGHT DETECTION	10
11	AUTO WINDOW OPEN	E	20	1			360	1,440			E	SYSTEM	12
13	AUTO WINDOW OPEN	E	20	1	360	1,440			2	30	E	WEIGHT DETECTION	14
15	REC - WINDOW	R	20	1			180	1,440			E	SYSTEM	16
17	REC - WINDOW	R	20	1	180	73			1	20	L	LTG - INTERIOR	18
19	REC - WINDOW	R	20	1			180	72	1	20	L	LTG - EXTERIOR	20
21	REC - WINDOW	R	20	1	180	180			1	20	R	REC - ROOF CONV.	22
23	SPACE											SPACE	24
				TOTAL LOAD:	8,369 VA		6,868 VA						
				TOTAL AMPS:	69.7 A		57.2 A						

LOAD CLASSIFICATION	CONNECTED LOAD: (VA)	DEMAND FACTOR	EST. DEMAND (VA)	PANEL TOTALS	
LARGEST MOTOR LOAD (M)	0.0	125.00%	0.0	TOTAL CONN. LOAD (VA):	15237
HVAC (H) & ALL OTHER MOTORS (M)	4800.0	100.00%	4800.0	TOTAL EST. DEMAND (VA):	15311.25
RECEPTACLE (R)	3660.0	100.00%	3660.0	TOTAL CONN. (A):	63.5
LIGHTING (L)	297.0	125.00%	371.3	TOTAL EST. DEMAND (A):	63.8
EQUIPMENT (E)	6480.0	100.00%	6480.0	PERCENT LOADED:	64%
OTHER (O) (SEE NOTES)	0.0	0.00%	0.0		

NOTES:

A PANEL SCHEDULE
SCALE: N.T.S.

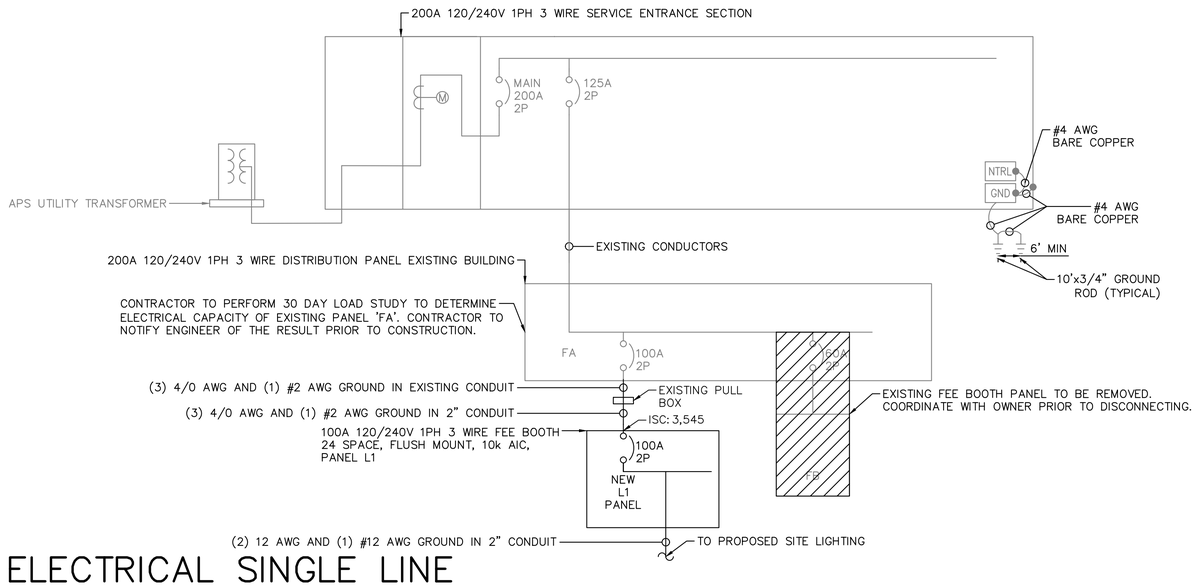
Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity			Load (A)	Distance	Voltage	Phase	**% Vdrop	Point
1	120 / 240 1 ph 25	12175	12,175											1
2	PB 1 - (INITIAL)	1	12,175	NM	Copper	1	Set of	12	0.84	200	240	1	0.24%	2
3	PB 2 - (ISLAND)	2	698	NM	Copper	1	Set of	12	0.84	375	240	1	0.68%	3
4	PB 3 - (TOP)	3	252	NM	Copper	1	Set of	12	0.63	50	240	1	0.73%	4
5	Light 1 - 51W	4	232	NM	Copper	1	Set of	12	0.21	30	240	1	0.74%	5
6	PB 4 - (BOTTOM)	3	252	NM	Copper	1	Set of	12	0.42	40	240	1	0.71%	6
7	Light 2 - 51W	6	236	NM	Copper	1	Set of	12	0.21	10	240	1	0.71%	7
8	Light 3 - 51W	6	236	NM	Copper	1	Set of	12	0.21	120	240	1	0.74%	8
9	Light 3 (Top of 25ft Pole)	8	198	NM	Copper	1	Set of	12	0.21	25	240	1	0.75%	9

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity			Load (A)	Distance	Voltage	Phase	"C" Value	"f" Value	"M" Value	Isc	**% Vdrop	Point
1	120 / 240 1 ph 25	12175	12,175													12,175		1
2	PB 1 - (INITIAL)	1	12,175	NM	Copper	1	Set of	4/0	60	150	240	1	16673	0.456389	0.68663	8,360	0.56%	2
3	PB 2 - (ISLAND)	2	8,360	NM	Copper	1	Set of	3/0	60	495	240	1	13923	1.238376	0.446752	3,735	2.73%	3
4	Panel	3	3,735	NM	Copper	1	Set of	3/0	60	48	240	1	13923	0.053648	0.949083	3,545	2.94%	4

B VOLTAGE DROP TABLES
SCALE: N.T.S.

FEE BOOTH AND SCALE ELECTRICAL CONDUIT AND CONDUCTOR SCHEDULE					
CONDUIT				CONDUCTORS	REMARKS
PATH NO.	SIZE	STATUS	QTY		
E00X	EX	EX	1	(3) #4/0 AWG CONDUCTORS AND (1) #2 GROUND	Existing Electrical Conduit
E001	2"	NEW	1	(3) #4/0 AWG CONDUCTORS AND (1) #2 GROUND	Panel L1
E002	2"	NEW	1	(2) #12 AWG CONDUCTORS AND (1) #12 GROUND	Light Poles
INSTALL (2) #12 AWG CONDUCTORS AND (1) #12 GROUND FROM THE BASE OF EACH LIGHT POLE TO THE LUMINAIRE					

C CONDUIT AND CONDUCTOR SCHEDULE
SCALE: N.T.S.



D ELECTRICAL SINGLE LINE
SCALE: N.T.S.

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DWG. NO. EL06 | DATE 02/23/2024 | SHEET NO. 28 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
ELECTRICAL SCHEDULES

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY DLP | CHECKED BY JRW | FOR: COP

Registered Professional Engineer (Retired) CERTIFICATE 50368 MICHAEL A. COLOMBO Date Signed 02/23/24 ARIZONA USA

Exp. Date 12/31/24

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PRESCOTT, ARIZONA 86303
PHONE: 928-458-7121
WWW.KIMLEY-HORN.COM

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				CITY

REVISIONS

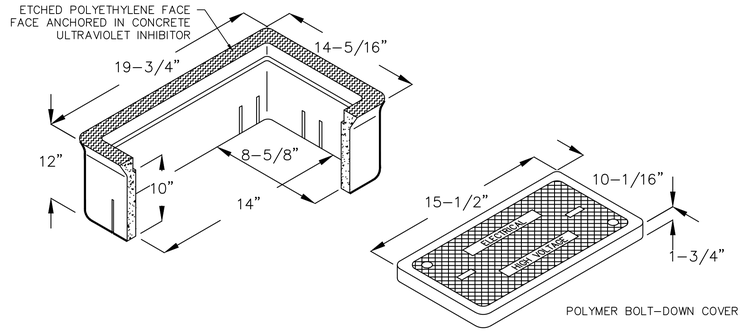
ENGINEER

REVIEW:

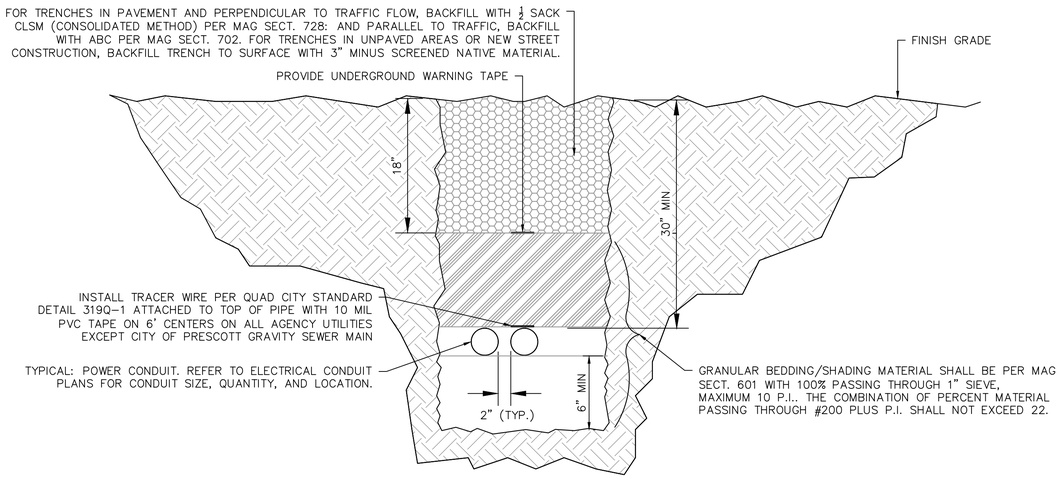
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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

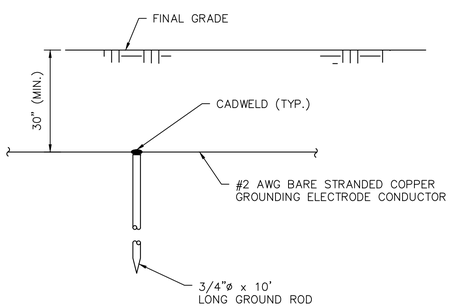
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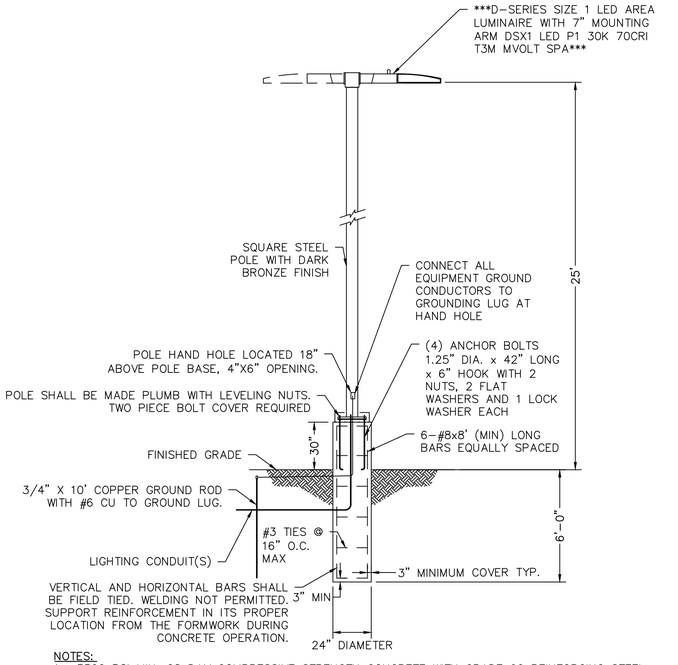
E PULL BOX DETAIL
SCALE: N.T.S.



F TRENCH DETAIL
SCALE: N.T.S.

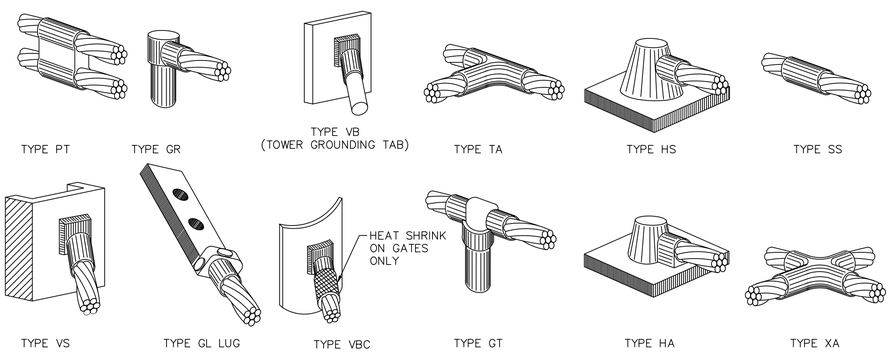


G GROUND ROD DETAIL
SCALE: N.T.S.



NOTES:
1. 3500 PSI MIN. 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH GRADE 60 REINFORCING STEEL
2. IF WATER IS PRESENT IN HOLE, REMOVE BEFORE POURING CONCRETE.
3. FOUNDATION EXCAVATION SHALL BE BY 24" AUGER IN UNDISTURBED OR PROPERLY COMPACTED FILL PER SPECIFICATIONS.
4. FOUNDATION SHALL HAVE A MINIMUM ALLOWABLE END BEARING OF 2000 PSF.
5. FOUNDATION HAS BEEN DESIGNED FOR A COHESIVE SOIL BASED ON A MINIMUM COHESIVE VALUE OF 1000 PSF.
6. FOUNDATION HAS BEEN DESIGNED FOR A GRANULAR SOIL BASED ON A MINIMUM LATERAL SOIL PRESSURE OF 1000 PSF, UTILIZING AASHTO FIGURE 1.8.2C(4) OF "EMBEDMENT OF POSTS WITH OVERTURNING LOADS".

H STREET LIGHT POLE DETAIL
SCALE: N.T.S.



NOTES:
1. CADWELD "TYPES" SHOWN ABOVE ARE EXAMPLES. PROVIDE APPROPRIATE TYPES AS REQUIRED.

I TYPICAL CADWELDS DETAIL
SCALE: N.T.S.

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CITY OF PRESCOTT PUBLIC WORKS
SOLID WASTE SCALE AND FEE BOOTH RELOCATION
ELECTRICAL DETAILS

DWG. NO. EL07 | DATE 02/23/2024 | SHEET NO. 29 OF 52

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Registered Professional Engineer (Electrical) CERTIFICATE NO. 50368 MICHAEL A. COLOMBO Date Signed 02/23/24 ARIZONA U.S.A.
Exp. Date 12/31/24

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PRESCOTT, ARIZONA 86303
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CIP #: 2208-002

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PRS_ROADWAY\091345040–FEE BOOTH AND SCALE\CADD\07–SHEETS\LIGHTING\EL03.DWG



D-Series Size 1
LED Area Luminaire

d"series

Catalog Number

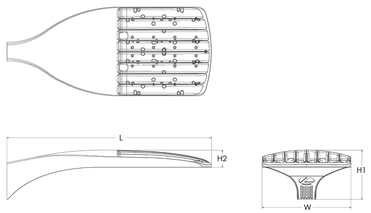
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	0.69 ft² (0.06 m²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED	P1	30K	70CRI	T3M	MVOLT	SPA
Series	**LEDs**	**Color temperature**[2]	**Color Rendering Index**[2]	**Distribution**	**Voltage**	**Mounting**

Forward optics

DSX1 LED	P1	P6	(this section 70CRI only)		AFR	Automotive front row	T5M Type V medium
	P2	P7	30K 3000K	70CRI	T1S	Type I short	T5LG Type V low glare
	P3	P8	40K 4000K	70CRI	T2M	Type II medium	T5W Type V wide
	P4	P9	50K 5000K	70CRI	T3M	Type III medium	BLC3 Type III backlight control[3]
	P5		(this section 80CRI only, extended lead times apply)		T3LG	Type III low glare[3]	BLC4 Type IV backlight control[3]
	Rotated optics		27K 2700K	80CRI	T4M	Type IV medium	LCCO Left corner cutoff[3]
	P10[1]	P12[1]	30K 3000K	80CRI	T4LG	Type IV low glare[3]	RCCO Right corner cutoff[3]
	P11[1]	P13[1]	35K 3500K	80CRI	TFTM	Forward throw medium	
			40K 4000K	80CRI			
			50K 5000K	80CRI			

MVOLT	(120V-277V)[4]
HVOLT	(347V-480V)[5,6]
XVOLT	(277V - 480V)[7,8]

Shipped included

SPA	Square pole mounting (#8 drilling)
RPA	Round pole mounting (#8 drilling)
SPA5	Square pole mounting #5 drilling[9]
RPA5	Round pole mounting #5 drilling[9]
SPA8N	Square narrow pole mounting #8 drilling
WBA	Wall bracket[10]

PER7

Control options

Shipped installed

NLTAIR2 PIRHN	nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc[11,12,20,21]
PIR	High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc[13,20,21]
PER	NEMA twist-lock receptacle only (controls ordered separate)[14]
PER5	Five-pin receptacle only (controls ordered separate)[14,21]

PER7	Seven-pin receptacle only (controls ordered separate)[14,21]
FAO	Field adjustable output[15,21]
BL30	Bi-level switched dimming, 30%[16,21]
BL50	Bi-level switched dimming, 50%[16,21]
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17]
DS	Dual switching[18,19,21]

Other options

Shipped installed

SPD20KV	20KV surge protection
HS	Houseside shield (black finish standard)[22]
L90	Left rotated optics[1]
R90	Right rotated optics[1]
CCE	Coastal Construction[23]

Shipped separately

EGSR	External Glare Shield (reversible, field install required, matches housing finish)
BSDB	Bird Spikes (field install required)

Finish *(required)*

DDBXD	Dark Bronze
DBLXD	Black
DNAXD	Natural Aluminum
DWHXD	White
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white

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J LUMINAIRE CUT SHEET
SCALE: N.T.S.

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CITY OF PRESCOTT PUBLIC WORKS
SOLID WASTE SCALE AND FEE BOOTH RELOCATION
ELECTRICAL CUT SHEETS

DWG. NO. EL08 | DATE 02/23/2024 | SHEET NO. 30 OF 52

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Registered Professional Engineer (Electrical) CERTIFICATE NO. 50368 MICHAEL A. COLOMBO Date Signed 02/23/24 ARIZONA USA

Exp. Date 12/31/24

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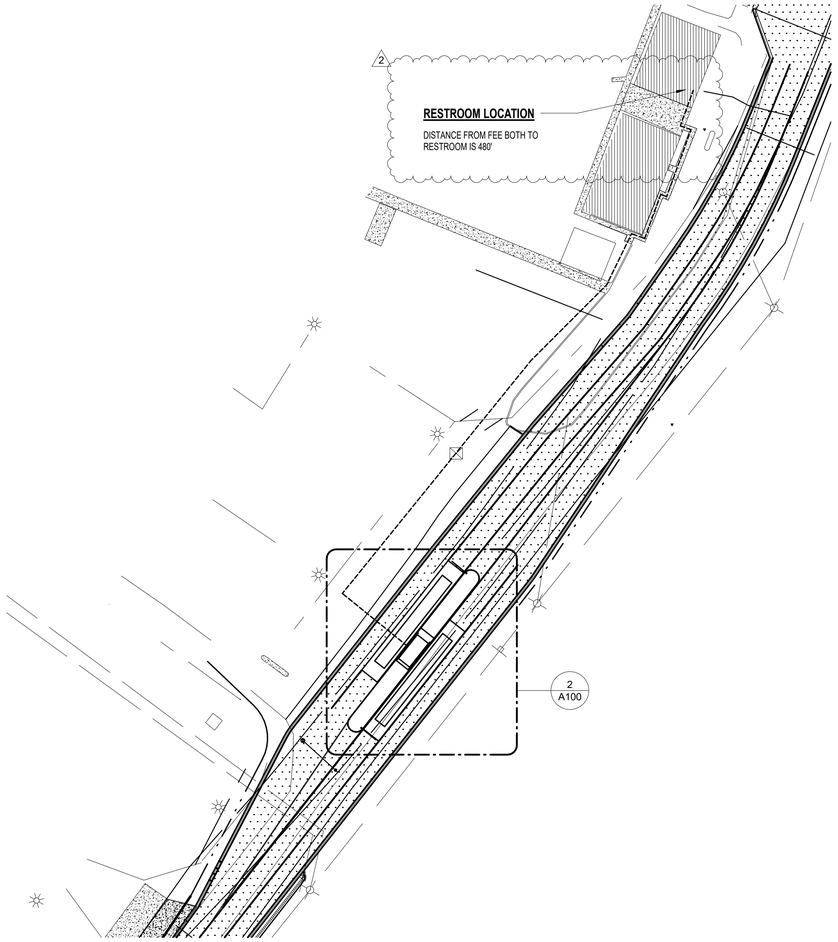
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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

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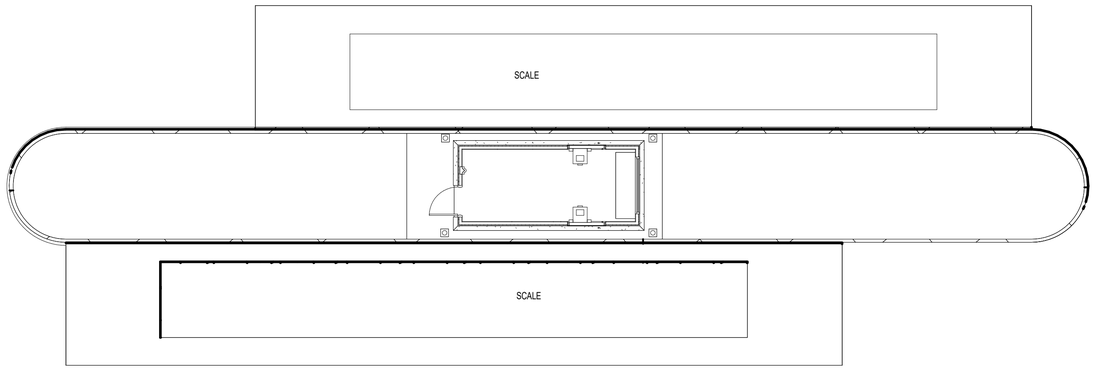


FOR REFERENCE ONLY, REFER TO CIVIL DRAWINGS FOR ALL SITE INFORMATION.

1 SITE PLAN

1" = 50'-0"

0' 25' 50' 100'



2 ENLARGED SITE PLAN

1/8" = 1'-0"

0' 4' 8' 16'

SHEET INDEX	
SHEET NUMBER	**SHEET NAME**
ARCHITECTURAL	
A100	ARCHITECTURAL SITE PLAN
A200	ARCHITECTURAL PLANS
A300	ELEVATION VIEWS
A400	ARCHITECTURAL SECTION VIEWS
A520	ARCHITECTURAL DETAILS
A700	SHEET SPECIFICATIONS

CODE DATA

APPLICABLE BUILDING CODES

2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL PLUMBING CODE (IPC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2017 NATIONAL ELECTRIC CODE (NEC)
2018 INTERNATIONAL FIRE CODE (IFC)
2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2010 AMERICAN WITH DISABILITIES ACT (ADA)

ZONING INFORMATION
BUILDING ADDRESS: 2800 SUNDOG RANCH ROAD, PRESCOTT ARIZONA
ZONING: IG - INDUSTRIAL GENERAL

OCCUPANCY TYPE: BUSINESS GROUP B

CONSTRUCTION TYPE: TYPE VB

FIRE SPRINKLER SYSTEM: NON SPRINKLERED

BUILDING HEIGHT
ALLOWABLE: 40'-0"
ACTUAL: 10'-7"

BUILDING STORIES ABOVE GRADE:
ALLOWED: 2 ACTUAL: 1

BUILDING AREA
ALLOWABLE: 9,000 SF
ACTUAL: 141 SF

ENERGY CODE ANALYSIS
IECC CLIMATE ZONE 4B

MINIMUM REQUIRED R-VALUE PER 2012 IECC TABLE C402.2
WALLS: WOOD FRAMED: R-13 + R-3.8 ci OR R-20
BELOW GRADE: R-7.5 ci
ROOF: ATTIC R-38
SLAB ON GRADE (UNHEATED): R-10 FOR 24" BELOW

MINIMUM REQUIRED U-FACTOR AND SHGC REQUIREMENTS PER 2012 IECC TABLE C402.3
FIXED FINESTRATION: 0.38 U-FACTOR, OPERABLE FINESTRATION: 0.45 U-FACTOR,
ENTRANCE DOORS: 0.77 U-FACTOR
SHGC: 40

PORTABLE FIRE EXTINGUISHER CODE REQUIREMENTS PER 2018 IFC AND 2018 NFPA 10
ORDINARY (MODERATE) HAZARD OCCUPANCY
MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHER: 75'
MAXIMUM FLOOR AREA PER UNIT OF A: 1,500 SF (3,000 SF FOR TYPE 2A)
PER 2018 IFC- TABLE 906.3(1) FIRE EXTINGUISHERS FOR CLASS A FIRE HAZARDS

TYPE K REQUIRED FOR KITCHEN AREAS AND MUST BE LOACATED WITHIN 30' OF HAZARD

DEFERRED SUBMITTALS

1. PREFABRICATED WOOD TRUSSES

MOR STUDIO
www.morstudio.net
15169 N. Scottsdale Rd. Ste. 205
Scottsdale, AZ 85254
Contact: Michelle Rutkowski, RA
602.617.3552
michelle@morstudio.net

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ISSUE

#	DESCRIPTION	DATE
1	90 PERCENT DRAWINGS	07.28.23
2	CITY COMMENTS	12.22.23

DWG. NO. A100 | DATE 02 / 23 / 2024 | SHEET NO. 31 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION ARCHITECTURAL SITE PLAN

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EXPIRES: 03-31-26

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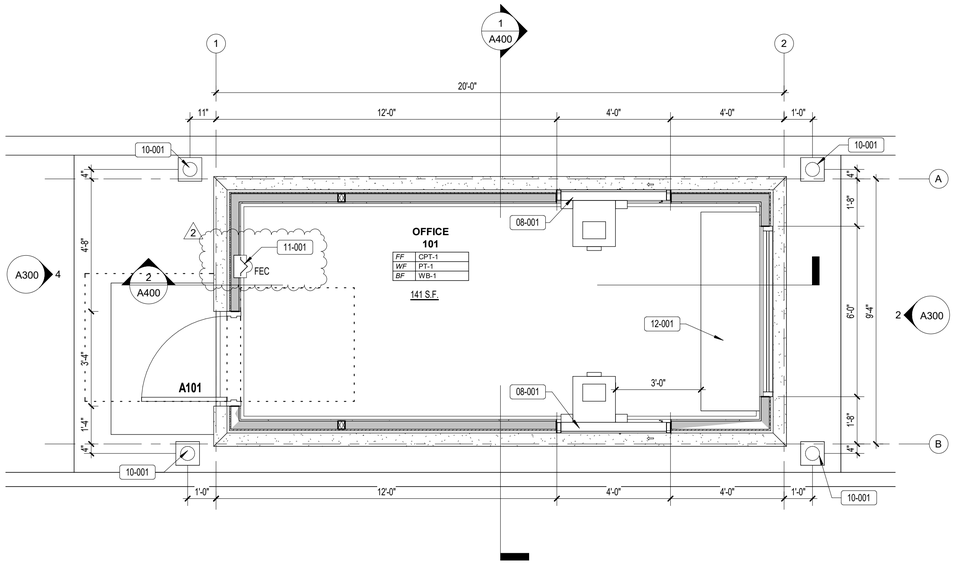
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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

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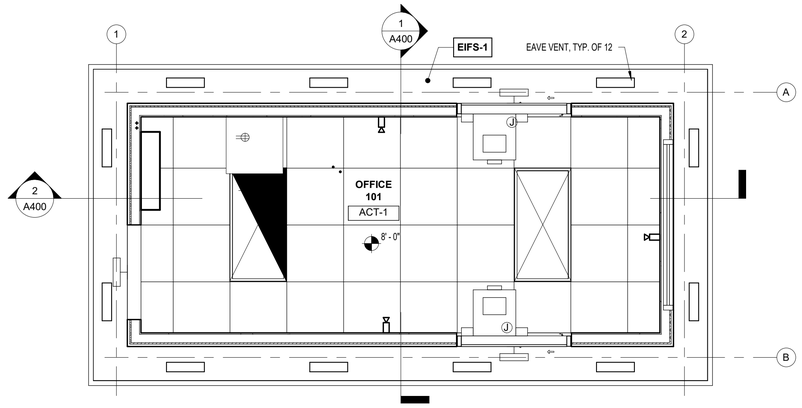


1 FLOOR PLAN

3/8" = 1'-0"

0' 1'-4" 2'-8" 5'-4"

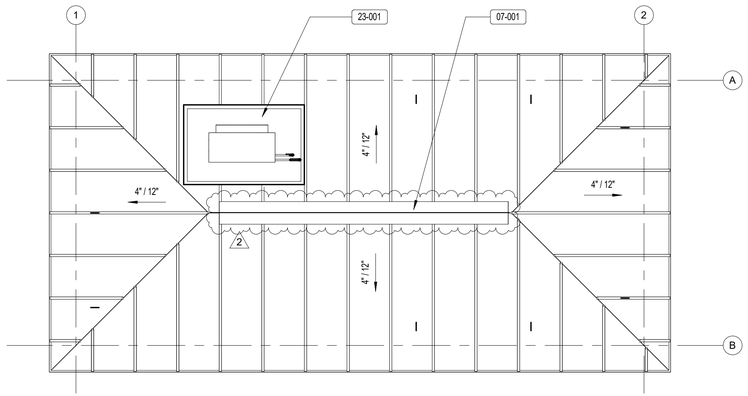
PORTABLE FIRE EXTINGUISHER CODE REQUIREMENTS
PER 2018 IFC AND 2018 NFPA 10
ORDINARY (MODERATE) HAZARD OCCUPANCY
MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHER: 75'
MAXIMUM FLOOR AREA PER UNIT OF A: 1,500 SF (3,000 SF FOR TYPE 2A) PER
2018 IFC- TABLE 906.3(1) FIRE EXTINGUISHERS FOR CLASS A FIRE HAZARDS



2 LEVEL 1 REFLECTED CEILING PLAN

3/8" = 1'-0"

0' 1'-4" 2'-8" 5'-4"



3 ROOF PLAN

3/8" = 1'-0"

0' 1'-4" 2'-8" 5'-4"

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO THE STRUCTURAL GRID, FACE OF CMU, FACE OF CONCRETE, OR FACE OF STUD UNLESS NOTED OTHERWISE
2. ALL DIMENSIONS NOTED AS "CLEAR" OR "CLR" ARE TO THE FINISH FACE OF THE MATERIAL
3. FACE OF FINISHES ARE TO ALIGN WHEN NOTED TO "ALIGN"

INTERIOR FINISH LEGEND

CEILINGS
ACT-1 ARMSTRONG 24"X24" WITH SQUARE EDGE AND PRELUDE 15/16" WHITE GRID

FLOORS
CPT-1 CARPET TILE-AS SELECTED BY OWNER

PAINT
PT-1 WALL PAINT COLOR SELECTED BY OWNER
PT-2 PAINT FOR METAL DOORS AND FRAMES. COLOR: SELECTED BY OWNER

WALL BASE
WB-1 4" BLACK COVED RUBBER BASE

KEYNOTES

NUMBER	TEXT
07-001	RIDGE VENT BY STANDING SEAM METAL ROOF CONTRACTOR. VENT TO PROVIDE MIN. 188 SQ. INCHES OF NET FREE VENTILATION AREA AND SHALL EQUAL THE NET FREE VENTILATION AREA PROVIDED BY THE SOFFIT VENTS.
08-001	SERVICE WINDOW WITH SELF CLOSING MANUAL SLIDER ,TRANSACTION DRAWER AND 5" SPEAK-THRU: 48-1/2" W. X 55-1/2" H. QUIKSERVE MODEL BRDW1-4851 WITH QSP-713S DRAWER
10-001	6" DIAMETER X 4'-0" H. CONCRETE FILLED PIPE BOLLARD ON STEEL BASE PLATE. PAINTED OSHA YELLOW. SEE STRUCTURAL DRAWING
11-001	2A FIRE EXTINGUISHER IN SEMI-RECESSED CABINET. SEE DETAIL 6/A520
12-001	ADJUSTABLE HEIGHT DESK BY OWNER
23-001	ROOF MOUNTED AIR HANDLER. SEE MECHANICAL DWGS., SEE STRUCTURAL DRAWINGS FOR PLATFORM CONSTRUCTION.

ROOF PLAN GENERAL NOTES

1. ALL DIMENSIONS NOTED AS "CLEAR" OR "CLR" ARE TO THE FINISH FACE OF THE MATERIAL
2. FACE OF FINISHES ARE TO ALIGN WHEN NOTED TO "ALIGN"
3. REFER TO MANUFACTURER'S INSTALLATION DETAILS FOR INSTALL OF SPECIFIED ROOF
4. ALL ROOF SLOPES TO BE 4" / 12" UNLESS NOTED OTHERWISE

REFLECTED CEILING PLAN GENERAL NOTES

1. ALL VERTICAL SURFACES TO RECEIVE THE SAME FINISH AS THE ADJACENT HORIZONTAL SURFACE UNLESS NOTED OTHERWISE
2. ALL DIMENSIONS NOTED AS "CLEAR" OR "CLR" ARE TO THE FINISH FACE OF THE MATERIAL.
3. FACE OF FINISHES ARE TO ALIGN WHEN NOTED TO "ALIGN"
4. LOCATION OF CEILING ACCESS PANELS ARE TO BE APPROVED BY ARCHITECT PRIOR TO INSTALL
5. CENTER CEILING GRIDS IN BOTH DIRECTIONS OF A ROOM UNLESS NOTED OTHERWISE
6. ALL LIGHT FIXTURES ARE TO BE CENTERED IN SPACE OR WITHIN THE CEILING GRID UNLESS NOTED OTHERWISE

REFLECTED CEILING PLAN LEGEND

ROOM TAG

ROOM NAME
— ROOM NUMBER
XXX — CEILING FINISH

LEGEND

2' X 2' CEILING GRID

SUPPLY AIR DIFFUSER

RETURN AIR DIFFUSER

EXHAUST AIR DIFFUSER

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CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION ARCHITECTURAL PLANS

CITY OF PRESCOTT
Everybody's Hometown

PREPARED BY DLP | CHECKED BY JRW | FOR: COP

REGISTERED ARCHITECT CERTIFICATE ON 47409 MICHELLE O RUTKOWSKI 02-23-2024 ARIZONA U.S.A.

EXPIRES: 03-31-26

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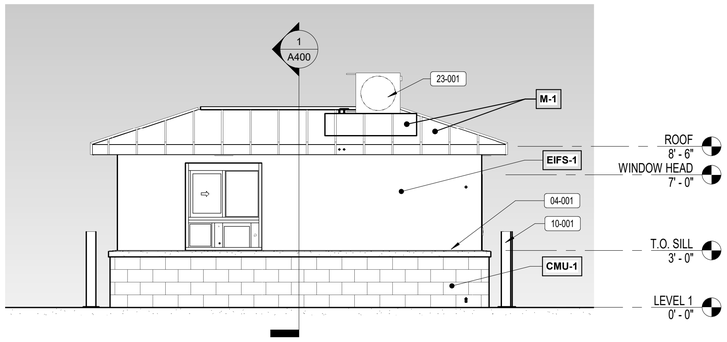
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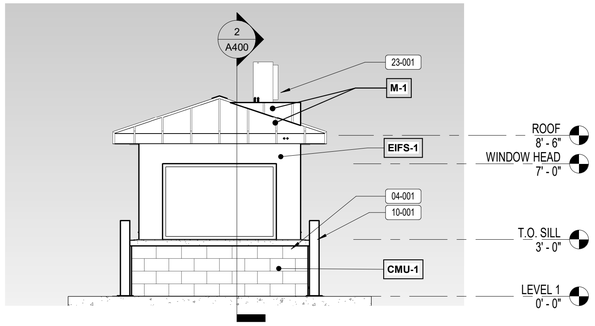
SOLID WASTE SCALE AND FEE BOOTH RELOCATION

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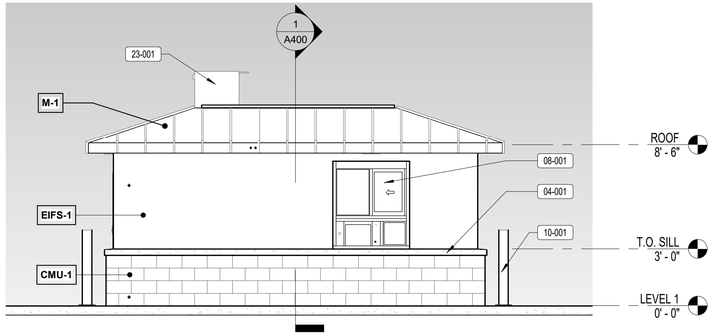
1 WEST ELEVATION

1/4" = 1'-0"



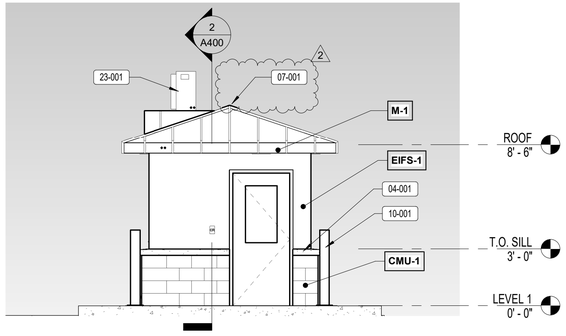
2 NORTH ELEVATION

1/4" = 1'-0"



3 EAST ELEVATION

1/4" = 1'-0"

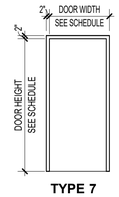


4 SOUTH ELEVATION

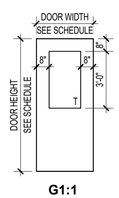
1/4" = 1'-0"

DOOR SCHEDULE

DOOR #	PAIR OF DOORS	DOOR						FRAME			DETAILS		FIRE RATING	HDW SET	COMMENTS
		WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	MATERIAL	FINISH	TYPE	JAMB	HEAD			
A101		3' - 0"	7' - 0"	1 3/4"	G1 : 1	HM	PT-2	HM	PT-2	7					



TYPE 7



G1:1
HALF GLAZED

6 DOOR FRAME TYPES

7 DOOR PANEL TYPES

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CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION ELEVATION VIEWS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

BUILDING ELEVATION GENERAL NOTES

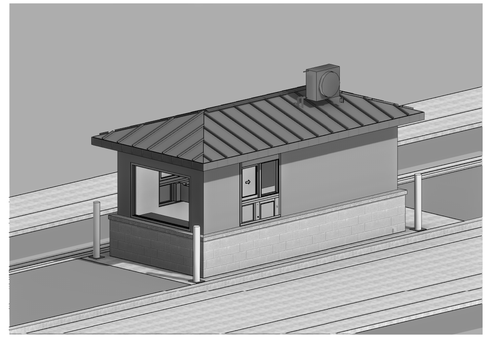
1. ALL DIMENSIONS NOTED AS "CLEAR" OR "CLR" ARE TO THE FINISH FACE OF THE MATERIAL
2. FACE OF FINISHES ARE TO ALIGN WHEN NOTED TO "ALIGN"

KEYNOTES

NUMBER	TEXT
04-001	CAST STONE SILL WITH DRIP EDGE
07-001	RIDGE VENT BY STANDING SEAM METAL ROOF CONTRACTOR. VENT TO PROVIDE MIN. 188 SQ. INCHES OF NET FREE VENTILATION AREA AND SHALL EQUAL THE NET FREE VENTILATION AREA PROVIDED BY THE SOFFIT VENTS.
08-001	SERVICE WINDOW WITH SELF CLOSING MANUAL SLIDER ,TRANSACTION DRAWER AND 5" SPEAK-THRU. 48-1/2" W. X 55-1/2" H. QUIKSERVE MODEL BRDW1-4851 WITH QSP-713S DRAWER
10-001	6" DIAMETER X 4'-0" H. CONCRETE FILLED PIPE BOLLARD ON STEEL BASE PLATE. PAINTED OSHA YELLOW. SEE STRUCTURAL DRAWING
23-001	ROOF MOUNTED AIR HANDLER. SEE MECHANICAL DWGS. SEE STRUCTURAL DRAWINGS FOR PLATFORM CONSTRUCTION.

EXTERIOR FINISH LEGEND

CMU-1	SPLIT FACE CONCRETE BLOCK VENEER: 4"X8"X16" COLOR: SELECTED BY OWNER
EIFS-1	SMOOTH SAND STUCCO FINISH COLOR: SELECTED BY OWNER
GL-1	SOLARBAN R100 SOLAR CONTROL LOW-E GLASS - STARPHIRE, VISIBLE LIGHT REFLECTION: 33% EXTERIOR / 14% INTERIOR / U VALUE WINTER .29/ U VALUE SUMMER: .27 / SHGC: .23
M-1	STANDING SEAM METAL ROOF: BERRIDGE TEE-PANEL SYSTEM COLOR: SELECTED BY OWNER, FOLLOW MANUFACTURER INSTALLATION INSTRUCTION AND DETAILS FOR ALL APPLICATIONS. ENSURE WATERPROOF INSTALLATION.



CITY OF PRESCOTT
Everybody's Hometown
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CHECKED BY: JRW
FOR: COP

REGISTERED ARCHITECT
CERTIFICATE NO.
47409
MICHELLE O. RUTKOWSKI
02-23-2024
ARIZONA U.S.A.
EXPIRES: 03-31-26

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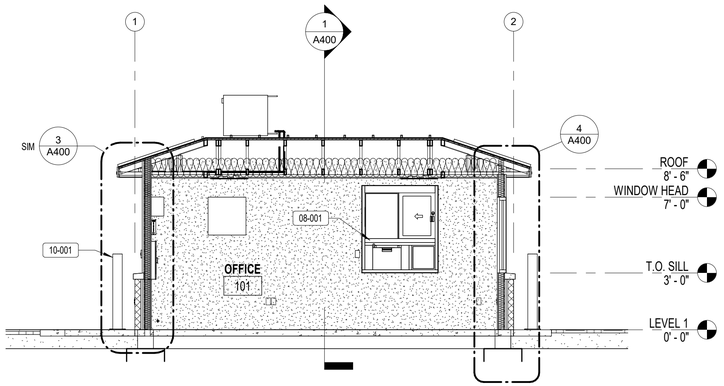
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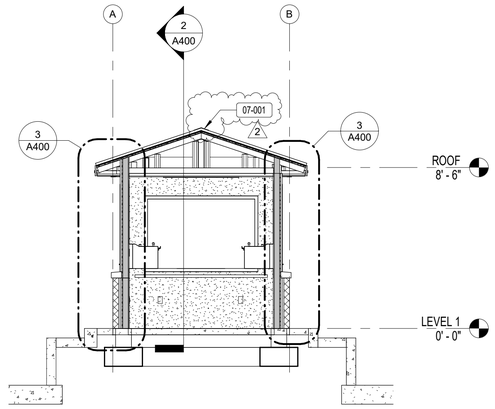
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2 BUILDING SECTION

1/4" = 1'-0"



1 BUILDING SECTION

1/4" = 1'-0"

3 TYPICAL WALL SECTION

3/4" = 1'-0"

4 WALL SECTION AT WINDOW

3/4" = 1'-0"

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BUILDING SECTION GENERAL NOTES

1. ALL DIMENSIONS NOTED AS "CLEAR" OR "CLR" ARE TO THE FINISH FACE OF THE MATERIAL
2. FACE OF FINISHES ARE TO ALIGN WHEN NOTED TO "ALIGN"

KEYNOTES

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10-001	6" DIAMETER X 4'-0" H. CONCRETE FILLED PIPE BOLLARD ON STEEL BASE PLATE. PAINTED OSHA YELLOW. SEE STRUCTURAL DRAWING

WALL SECTION GENERAL NOTES

1. ALL DIMENSIONS NOTED AS "CLEAR" OR "CLR" ARE TO THE FINISH FACE OF THE MATERIAL
2. FACE OF FINISHES ARE TO ALIGN WHEN NOTED TO "ALIGN"
3. GRAPHICS IN WALL SECTIONS ARE REPRESENTATIVE IN NATURE ONLY, REFER TO DETAILS AND KEYNOTES FOR ACTUAL CONSTRUCTION REQUIREMENTS

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CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION ARCHITECTURAL SECTION VIEWS

CITY OF PRESCOTT Everybody's Hometown
PREPARED BY: DLP
CHECKED BY: JRW
FOR: COP

REGISTERED ARCHITECT CERTIFICATE
47409
MICHELLE Q RUTKOWSKI
07-28-2023
ARIZONA, U.S.A.
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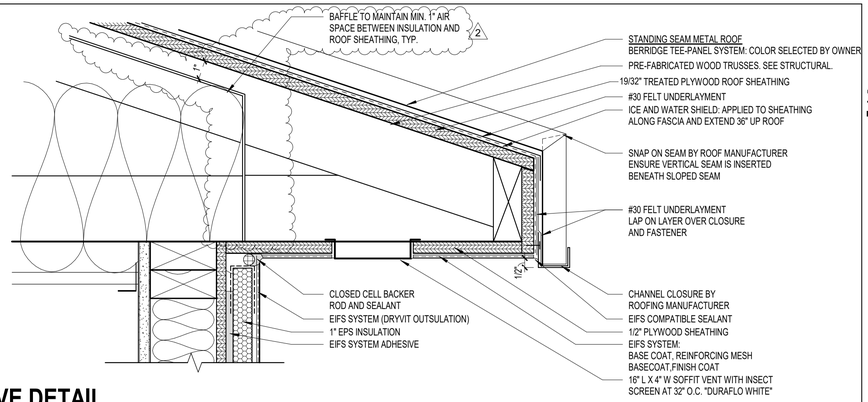
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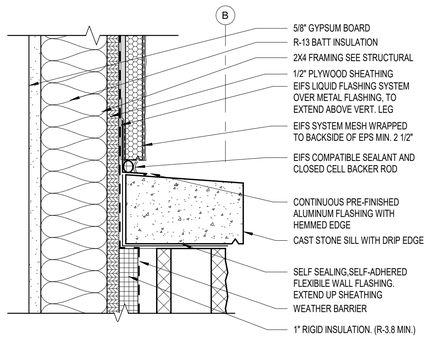
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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

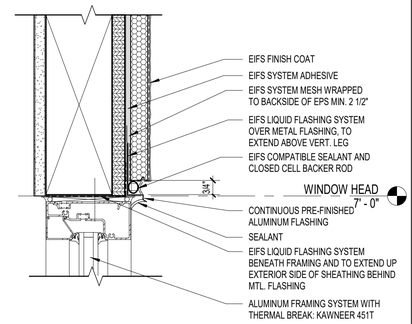
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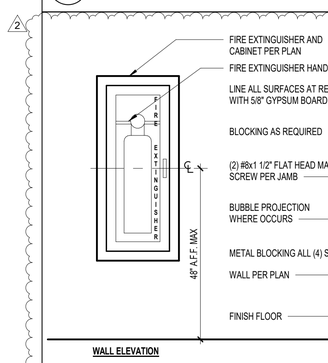
4 EAVE DETAIL
3" = 1'-0"



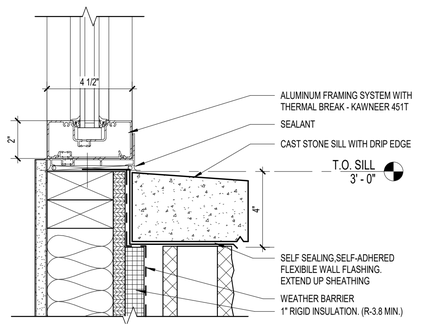
5 SILL DETAIL
3" = 1'-0"



2 WINDOW HEAD DETAIL
3" = 1'-0"



6 SEMI-RECESSED FIRE EXTINGUISHER
1" = 1'-0"



3 SILL DETAIL AT WINDOW
3" = 1'-0"

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CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION ARCHITECTURAL DETAILS

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PREPARED BY: DLP
CHECKED BY: JRW
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REGISTERED ARCHITECT CERTIFICATE NO. 47409 MICHELLE O. RUTKOWSKI ARIZONA U.S.A. 2-23-2024
EXPIRES: 03-31-26

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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

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SECTION 01 73 29: CUTTING AND PATCHING

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Cutting, fitting and patching, including attendant excavation and backfill required to complete Work, and for:
1. Making several parts fit together properly.
2. Uncovering portions of Work to provide for installation of ill-timed Work.
3. Removing and replacing defective and non-conforming Work.
4. Removing samples of installed Work required for testing, as directed by Architect.
5. Providing routine penetrations of non-structural surfaces for installation of piping and electrical conduit.
6. Attaching new materials to existing remodeling areas.

1.2 SUBMITTALS
A. In advance of executing any cutting or alterations, submit written request to Architect requesting consent to proceed with cutting which affects:
1. Work of Owner or other trades.
2. Structural value or integrity of any element of Project.
3. Integrity or effectiveness of weather-exposed or moisture-resistant elements or systems.
4. Efficiency, operational life, maintenance or safety of operational elements.
5. Visual qualities of sight-exposed elements.
B. Include in request:
1. Identification of Project.
2. Description of affected Work.
3. Necessity for cutting, alteration or excavation.
4. Effect of Work of Owner or other trades, or structural or weatherproof integrity of Project.
5. Description of proposed Work:
a. Scope of cutting, patching, alteration, or excavation.
b. Trades which will execute Work.
c. Products proposed to be used.
d. Extent of refinishing to be done.
6. Alternatives to cutting and patching.
7. Cost proposal, when applicable.
8. Written permission of trades whose Work will be affected.
C. Submit written notice to Architect designating time Work will be uncovered to provide for observation.

1.3 PAYMENT FOR COSTS
A. Cost caused by ill-timed or defective Work or Work not conforming to Contract Documents, including costs for additional services of Architect and Engineer to be paid by Contractor.
B. Cost of Work done on written instructions of Architect, other than defective or nonconforming Work, will be paid by Owner on approval of written Change Order. Provide written cost proposals prior to proceeding with cutting and patching proposed by Architect.

PART 2 PRODUCTS

2.1 MATERIALS
A. Provide for replacement of Work removed. Comply with Contract Documents for type of Work standards and Specification requirements for each specific product involved.

PART 3 EXECUTION

3.1 INSPECTION
A. Inspect existing conditions of Work, including elements subject to movement or damage during cutting and patching, and excavating and backfilling. After uncovering Work, inspect conditions affecting installation of new products and verify procedures with Architect.

B. Report unsatisfactory or questionable conditions in writing to Architect/Engineer. Do not proceed with Work until further instructions are received.

3.2 PREPARATION
A. Provide shoring, bracing and supports as required to maintain structural integrity of Work.
B. Provide devices and methods to protect other portions of Work from damage, including elements which may be exposed by cutting and patching Work. Maintain excavations free from water.

3.3 ERECTION, INSTALLATION AND APPLICATION
A. Performance:
1. Execute fitting and adjustment of products to provide finished installation to comply with and match specified tolerances and finishes.
2. Execute cutting and demolition by methods which prevent damage to other Work to provide proper surfaces to receive installation of repairs and new Work.
B. Employ original installer or fabricator to perform cutting and patching for:
1. Weather-exposed surfaces and moisture-resistant elements such as roofing, sheet metal, sealants and waterproofing.
2. Sight-exposed finished surfaces.
C. Execute fitting and adjustment of products to provide a finished installation to comply with specified products, functions, tolerances and finishes as shown on Drawings and as specified.
D. Fit Work airtight to pipes, sleeves, ducts, conduit and other penetrations through surfaces. Conform to fire code requirements for penetrations and maintain integrity of fire walls and ceilings.
E. Restore Work which has been cut or removed. Install new products to provide completed Work in accordance with requirements of Contract Documents and as required to match surrounding areas and surfaces.
F. Refinish entire surfaces as necessary to provide an even, matching finish as follows:
1. Painted Walls or Ceilings: To nearest intersection with another finish or corner.
2. Where Applied Finishes Occur (i.e wallcovering, tile, wood paneling): To nearest intersection of finish without damage to adjacent material. Where match of pattern, grain, texture, or similar finish cannot be made, refinish area to intersection with other finish or corner.
3. Manufactured or Shop Fabricated Materials: Replace entire affected surface or material.

END OF SECTION

SECTION 06 40 00: ARCHITECTURAL WOODWORK

PART 1 GENERAL

1.1 SUBMITTALS
A. Shop Drawings: Submit Drawings showing layout, elevations, dimensions, hardware, construction details, and schedule of finishes.
B. Samples:1. Submit two 6 inch x 6 inch samples of type or color of plastic laminate.
C. Product Data: Provide data on fire retardant treatment materials and application instructions
1.2 REFERENCES
A. Reference Standards: Comply with the following:
1. Architectural Woodwork Institute (AWI) "Architectural Woodwork Quality Standards Illustrated" 8th Edition, Version 1.0 (2003).
2. ANSI/NEMA LD3 for laminates.

1.3 QUALITY ASSURANCES
A. Applicable Standard: Perform work in accordance with AWI "Architectural Woodwork Quality Standards Illustrated".

1.4 DELIVERY, STORAGE AND HANDLING
A. Packing and Shipping: Deliver materials to site in Manufacturer's original unopened packaging with labels intact.
B. Storage: Adequately protect against damage and moisture while stored at the site.
C. Handling: Comply with Manufacturer's instructions.

1.5 PROJECT CONDITIONS
A. Physical Requirements for Proper Installation or Application: Provide humidity conditions which will prevent damage to woodwork.
B. Verify that field measurements are as indicated on Shop Drawings.

PART 2 PRODUCTS

2.1 MANUFACTURERS - PLASTIC LAMINATE
A. Furnish plastic products as specified in finish schedule unless approved by architect:

2.3 WOOD MATERIALS
A. Hardwood Lumber: Custom Grade in accordance with applicable standard specified herein under "Quality Assurance," average moisture content of 6 percent; species and cut as indicated on Drawings.

2.4 SHEET MATERIALS
A. Hardwood Plywood: Core materials of particleboard, veneer, lumber, MDF or OSB, type of glue recommended for application; face veneer and cuts as indicated on Drawings
B. Softwood Plywood: DOC PS 1, MDO (Medium Density Overlay), or other overlay plywood product suitable for application of plastic laminate as approved by the Architect.
C. Wood Particleboard:
1. Standard in accordance with applicable standard specified herein under "Quality Assurance," for grade of work specified, composed of wood chips, 45 lb. density, made with water resistant adhesive; of grade to suit application; sanded faces for drawer construction and shelving.
D. Hardboard:
1. Pressed wood fiber with resin binder, tempered grade, 1/4 inch (6mm) thick, smooth one side, for drawer bottoms, gables and backs.

2.05 LAMINATE MATERIALS

A. Plastic Laminate: High pressure decorative type.
1. Horizontal Grade: NEMA LD-3, Grade GP50, .050 inch thickness.
2. Vertical Grade: NEMA LD-3, Grade GP28, .028 inch thickness. This grade of laminate shall be counterbalanced.
3. Post Forming Grade: NEMA LD-3, Grade PF 42.
4. Cabinet Liner Grade: NEMA LD-3, Grade CL-20, (.020 inch thickness). This grade of laminate shall be counterbalanced.
5. Melamine (good): Cold rolled (80 g.), tested to meet NEMA Test LD-3. This grade of laminate shall be counterbalanced.
6. Backer: NEMA LD-3, Grade BK-20 (.020 inch {0.508mm} thickness).
7. Finishes, Colors and Patterns: As indicated on Drawings.

2.6 ACCESSORIES
A. Adhesive: Type recommended by Laminate Manufacturer to suit application.
B. Wall Adhesive:
1. Cartridge type compatible with paneling and wall substrate.
C. Edge Trim: 3mm PVC or self laminated edge as indicated on Drawings; of width to match component thickness; color as selected or noted on Drawings.
D. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application. Threaded steel for concealed joints.

2.7 HARDWARE
A. Drawers
1. For each drawer:
a. 1 set full extension drawer slides, ball bearing, side mount, lever disconnect:
1) For drawers up to 24 inches wide (75-pound class) - Accuride 2601.
2) for drawers over 24 inches wide (100-pound class) - Knape & Vogt No. 1429, Grant No. 5632 or Accuride 3832.
b. Pull as indicated in elevations
2. For each drawer to be locked: 1 lock – Pin tumbler, half mortise, dead bolt x flat strike, as manufactured by National Cabinet Lock, MK US26D.
B. Doors: For each 3/4-inch-thick single door - flush overlay design:
1. 1 pair hinges - 2-3/4 inch half overlay hinges, Five knuckle, 095 Steel, adjustable screw holes, 11/32 inch overlay. Catalog # C848 26D, Dull Chrome, per Woodworker's Hardware.
2. Pull as indicated in elevations

C. Shelves: For each set of adjustable wood shelves:
1. 4 standards - Knape & Vogt No. 255, Garcy No. S373 or Parker No. 67.
2. 4 supports each shelf – Knape & Vogt No. 256, Garcy No. Y73 or Parker No. 076.
D. Grommets: ABS plastic, 2-inch cutout diameter unless otherwise indicated, with removable cap, Doug Mockett & Co., Inc. "Series TG" or as approved, color as selected by the Architect.
E. Finish: As indicated on drawings

2.8 FINISHING MATERIALS
A. Finishing Materials: As specified in Section 09 91 00 [09900] .

2.9 FABRICATION
A. Fabricate architectural woodwork and cabinets in conformance with Grade Standards in accordance with applicable standard specified herein under "Quality Assurance."
B. Shop assemble casework for delivery to site in units easily handled and to permit passage through building openings.
C. Cap shelves, doors, and other exposed edges with 3mm PVC edging. Use one piece for full length only.
D. Cap semi-exposed edges with 3mm PVC edging. Use one piece for full length only.
E. Door and Drawer Fronts: 3/4 inch (19mm) thick overlay style.
F. Shelves: Fabricate shelves with one inch thick wood particleboard cores with melamine finish, all sides and edges, unless otherwise indicated.
G. Shelf Standards within Casework: Set shelf standards within recessed groove of same width and depth as shelf standard.
H. Plastic Laminate Faced Countertops:
1. Fabricated plastic laminate faced countertops without back or side splashes.
2. Countertop Edge Treatment: Self laminated square edge as detailed.
I. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.
J. Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arrises. Locate counter butt joints minimum 2 feet (600mm) from sink cut-outs.
K. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
L. Provide cutouts for appliances, outlet boxes, fixtures and fittings. Verify locations of cutouts from on-site dimensions. Seal contact surfaces of cut edges.

2.10 SHOP FINISHING

A. Sand Work smooth and set exposed fasteners; apply wood filler.
B. Apply wood filler in exposed nail and fastener indentations. On items to receive transparent finishes, use wood filler that matches surrounding surfaces and types recommended for applied finishes.
C. Finish work in the factory in accordance with finish system TR-6 in accordance with AWI "Architectural Woodwork Quality Standards Illustrated" Section 1500 - "Factory Finishing."
D. Seal surfaces in contact with cementitious materials.
E. Seal internal surfaces of cabinets with two coats of sealer, except where cabinets are constructed of prefinished plywood or finished internally with cabinet liner, .

PART 3 EXECUTION

3.1 EXAMINATION
A. Verification of Conditions: Examine subsurfaces to receive Work and report detrimental conditions in writing to Architect. Commencement of Work will be construed as acceptance of subsurfaces.
B. Coordination: Coordinate with other Work which affects, connects with, or will be concealed by this Work.

3.2 INSTALLATION
A. Set and secure cabinetry and other woodwork in place; rigid, plumb and level, and in accordance with applicable standard specified herein under "Quality Assurance" for grade of work specified.
B. Use fixture attachments in concealed locations for wall mounted components.
C. Secure and align adjoining cabinet units and counter tops with concealed joint fasteners.
D. Scribe casework abutting other components, with maximum gaps of 1/32 inch (0.03125 inch). Do not use additional overlay trim for this purpose.
E. Secure cabinet and bases to floor using appropriate angles and anchorages.
F. Where exposed anchors or fasteners are unavoidable in the finish Work, countersink anchorage devices at exposed locations and conceal with solid wood plugs of species to match surrounding wood or with plastic or laminate faced plugs to match surrounding plastic laminate; finish flush with surrounding surfaces.
G. Install trim in single lengths without splices where possible. Miter external corners and cope internal corners.

3.3 FIELD FINISHING
A. Sand Work smooth and set exposed fasteners.

3.4 CLEANING
A. During the course of the Work and on completion, remove and dispose of excess materials, equipment and debris away from premises. Leave Work in clean condition.

END OF SECTION

SECTION 07 21 00 - THERMAL INSULATION
1.1 SUBMITTALS
A. Product Data: For each type of product.
1. Insulation R-Value: As noted on Drawings.
1.2 GLASS-FIBER BLANKET
A. Glass-Fiber Blanket, Unfaced: ASTM C 665, Type I; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84; passing ASTM E 136 for combustion characteristics.
B. Glass-Fiber Blanket, Polypropylene-Scrim-Kraft Faced: ASTM C 665, Type II (nonreflective faced), Class A (faced surface with a flame-spread index of 25 or less); Category 1 (membrane is a vapor barrier).
C. Glass-Fiber Blanket, Reinforced-Foil Faced: ASTM C 665, Type III (reflective faced), Class A (faced surface with a flame-spread index of 25 or less); Category 1 (membrane is a vapor barrier), faced with foil scrim, foil-scrim kraft, or foil-scrim polyethylene.
1.3 ACCESSORIES
A. Insulation for Miscellaneous Voids:
1. Glass-Fiber Insulation: ASTM C 764, Type II, loose fill; with maximum flame-spread and smoke-developed indexes of 5, per ASTM E 84.
B. Insulation Anchors, Spindles, and Standoffs: As recommended by manufacturer.
1.4 INSTALLATION
A. Blanket Insulation: Install in cavities formed by framing members according to the following requirements:
1. Use insulation widths and lengths that fill the cavities formed by framing members. If more than one length is required to fill the cavities, provide lengths that will produce a snug fit between ends.
2. Place insulation in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members.
3. For wood-framed construction, install blankets according to ASTM C 1320 and as follows:
a. With faced blankets having stapling flanges, lap blanket flange over flange of adjacent blanket to maintain continuity of vapor retarder once finish material is installed over it.
4. Vapor-Retarder-Faced Blankets: Tape joints and ruptures in vapor-retarder facings, and seal each continuous area of insulation to ensure airtight installation.
5. Miscellaneous Voids: Install insulation in miscellaneous voids and cavity spaces where required to prevent gaps in insulation using the following materials:
a. Glass-Fiber Insulation: Compact to approximately 40 percent of normal maximum volume equaling a density of approximately 2.5 lb/cu. ft. (40 kg/cu. m).

SECTION 07 92 00 - JOINT SEALANTS
1.1 SUBMITTALS
A. Product test reports.
B. Preconstruction laboratory test reports.
C. Preconstruction field-adhesion-test reports.
D. Field-adhesion-test reports.
E. Warranties.
1.2 QUALITY ASSURANCE
A. Testing Agency Qualifications: Qualified according to ASTM C 1021 to conduct the testing indicated.
1.3 PRECONSTRUCTION TESTING
A. Preconstruction Laboratory Testing: Submit to joint-sealant manufacturers, for testing indicated below, samples of materials that will contact or affect joint sealants.
1. Adhesion Testing: Use ASTM C 794 to determine whether priming and other specific joint preparation techniques are required to obtain rapid, optimum adhesion of joint sealants to joint substrates.
2. Compatibility Testing: Use ASTM C 1087 to determine sealant compatibility when in contact with glazing and gasket materials.
3. Stain Testing: Use ASTM C 1248 to determine stain potential of sealant when in contact with masonry substrates.
B. Preconstruction Field-Adhesion Testing: Before installing sealants, field test their adhesion to Project joint substrates. Test joint sealants according to Method A, Field-Applied Sealant Joint Hand Pull Tab, in Appendix X1.1 in ASTM C 1193 or Method A, Tail Procedure, in ASTM C 1521.
1.4 URETHANE SEALANTS
A. Interior locations:
1. Basis-of-Design Product: Sherwin-Williams "Sher-MAX" Urethanized Premium Elastomeric Sealant.
2. Federal Spec. TT-S-00230C, Type II, Class A; ASTM C-920, Class 35, 70% total joint movement.
3. Color: Clear.
1.5 MISCELLANEOUS MATERIALS
A. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials.
B. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.
1.6 PREPARATION
A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions.
B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience.
1.7 INSTALLATION OF JOINT SEALANTS
A. General: Comply with ASTM C 1193 and joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
B. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
1.8 FIELD QUALITY CONTROL
A. Field-Adhesion Testing: Field test joint-sealant adhesion to joint substrates.
1. Test Method: Test joint sealants according to Method A, Field-Applied Sealant Joint Hand Pull Tab, in Appendix X1 in ASTM C 1193 or Method A, Tail Procedure, in ASTM C 1521.

SECTION 09 29 00 GYPSUM BOARD

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data.
PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
B. STC-Rated Assemblies: Provide materials and construction identical to those tested in assemblies per ASTM E 90 and classified per ASTM E 413 by a qualified independent testing and inspecting agency.
2.2 PANEL PRODUCTS
A. Provide in maximum lengths available to minimize end-to-end butt joints.
B. Interior Gypsum Board: ASTM C 1396/C 1396M, in thickness indicated, with manufacturer's standard edges. [Regular type unless otherwise indicated.
C. Glass-Mat, Water-Resistant Gypsum Backing Board:
ASTM C 1178/C 1178M, of thickness indicated. [Regular type unless otherwise indicated]
D. Cementitious Backer Units: ANSI A118.9, ASTM C 1288, or
ASTM C 1325.
2.3 ACCESSORIES
A.. Joint-Treatment Materials: ASTM C 475/C 475M.
1. Joint Tape: Paper unless otherwise recommended by panel manufacturer.
2. Joint Compounds: Setting-type compounds, Drying-type, ready-mixed, all-purpose compounds, Setting-type taping compound and drying-type, ready-mixed, compounds for topping as recommended by manufacturer.
3. Skim Coat: For final coat of Level 5 finish, use setting-type, sandable topping compound, drying-type, all-purpose compound or high-build interior coating product designed for application by airless sprayer and to be used instead of skim coat to produce Level 5 finish.
4. Cementitious Backer Unit Joint-Treatment Materials: Products recommended by cementitious backer unit manufacturer.
D. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.

1. Adhesive shall have a VOC content of 50 g/L or less.
G. Textured Finish: On new walls adjacent to existing walls- provide finish to match existing.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install gypsum board to comply with ASTM C 840.
1. Isolate gypsum board assemblies from abutting structural and masonry work. Provide edge trim and acoustical sealant.
2. Single-Layer Fastening Methods: Fasten gypsum panels to supports with screws.
B. Install cementitious backer units to comply with ANSI A108.11.
C. Fire-Resistance-Rated Assemblies: Comply with requirements of listed assemblies.
D. Finishing Gypsum Board: ASTM C 840.
1. At concealed areas, unless a higher level of finish is required for fire-resistance-rated assemblies, provide Level 1 finish: Embed tape at joints.
2. At substrates for tile, provide Level 2 finish: Embed tape and apply separate first coat of joint compound to tape, fasteners, and trim flanges.
3. Unless otherwise indicated, provide Level 5 finish at all new ceilings: Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges. Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges. Apply skim coat to entire surface.
E. Glass-Mat, Water-Resistant Backing Panels: Finish according to manufacturer's written instructions.
F. Cementitious Backer Units: Finish according to manufacturer's written instructions.
G. Texture Finish Application: Mix and apply finish using powered spray equipment, to produce a uniform texture free of starved spots or other evidence of thin application or of application patterns.
END OF SECTION 092900

SECTION 099100 - PAINTING

PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Summary: Paint exposed surfaces, new and existing, unless otherwise indicated. Paint the back side of access panels.
B. Color-code mechanical piping in accessible ceiling spaces.
C. Do not paint prefinished items, items with an integral finish, operating parts, and labels unless otherwise indicated.
D. Submittals:
1. Product Data. Include printout of "MPI Approved Products List" with product highlighted.
2. Products: Complying with MPI standards indicated and listed in "MPI Approved Products List."
Preparation and Workmanship: Comply with requirements in "MPI Architectural Painting Specification Manual" for products and paint systems indicated.
3. Mockups: Full-coat finish Sample of each type of coating, color, and substrate, applied where directed.
4. Extra Materials: Deliver to Owner 1 quart of each color and type of finish coat paint used on Project, in containers, properly labeled and sealed.

PART 2 - PRODUCTS

2.1 PRODUCT TYPES
A. Products: Dunn Edwards, Sherwin Williams.
B. Material Compatibility: Provide materials that are compatible with one another and with substrates.
C. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
D. Colors: As scheduled.

2.2 EXECUTION/PREPARATION
A. Remove hardware, lighting fixtures, and similar items that are not to be painted. Mask items that cannot be removed. Reinstall items in each area after painting is complete.
B. Clean and prepare surfaces in an area before beginning painting in that area. Schedule painting so cleaning operations will not damage newly painted surfaces.

2.3 APPLICATION
A. Apply paints according to manufacturer's written instructions.
B. Use brushes only for exterior painting and where the use of other applicators is not practical.
C. Use rollers or sprayers for finish coat on interior walls and ceilings.
D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
E. Apply stains and transparent finishes to produce surface films without color irregularity, cloudiness, holidays, lap marks, brush marks, runs, ropiness, or other imperfections. Use multiple coats to produce a smooth surface film of even luster.

2.4 INTERIOR PAINT APPLICATION SCHEDULE
1. Metal: Semigloss, Quick-Dry Enamel: Two coats over quick-drying alkyd metal primer: MPI INT 5.1A.
2. Drywall: Eggshell, Alkyd Enamel: Two coats over quick-drying alkyd primer: MPI INT 5.1E.
3. Wood: Including wood trim, architectural woodwork, doors, windows, wood-based panel Semigloss Latex: Two coats over latex primer for wood: MPI INT 6.3T.

END OF SECTION 099100

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ISSUE

#	DESCRIPTION	DATE
1	90 PERCENT DRAWINGS	07.28.23
2	CITY COMMENTS	12.22.23

DWG. NO. A700
DATE 02 / 23 / 2024
SHEET NO. 36 OF 52

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
ARCHITECTURAL NOTES

CITY OF PRESCOTT Everybody's Hometown
PREPARED BY: DLP | CHECKED BY: JRW | FOR: COP

REGISTERED ARCHITECT CERTIFICATE NO. 47409 MICHELLE O. RUTKOWSKI ARIZONA U.S.A.
EXPIRES: 03-31-26

Kimley»Horn
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101 W. GOODWIN ST., SUITE 303
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					CITY

ENGINEER

REVIEW:

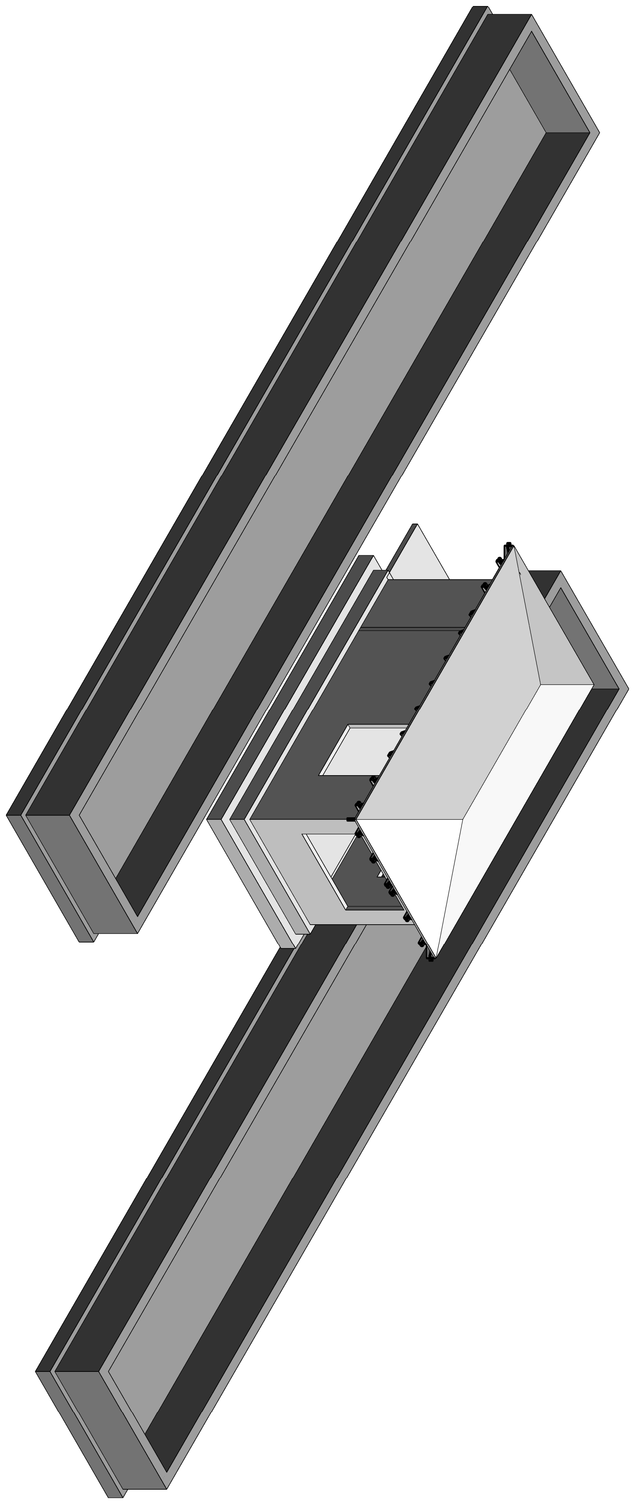
CIP #: 2208-002

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

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KH+ Sheet List

S100	COVER SHEET
S110	GENERAL STRUCTURAL NOTES
S120	GENERAL STRUCTURAL NOTES
S130	ABBREVIATIONS, PLAN LEGEND, SCHEDULES, & SSFS
S131	TYPICAL DETAILS T1 - T12
S132	TYPICAL DETAILS T13 - T24
S133	TYPICAL DETAILS T25 - T36
S134	TYPICAL DETAILS T37 - T48
S135	NOT USED — TYPICAL DETAILS T49 - T60
S200	OVERALL FOUNDATION PLAN
S300	OVERALL ROOF FRAMING PLAN
S410	DETAILS 101 - 112
S411	DETAILS 113 - 124
S510	WEIGH SCALE PLAN AND DETAILS
Grand total: 14	

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Registered Professional Engineer
47938
MANUEL J. De La ROSA
Date Signed: 2/15/24
EXPIRES 6-30-24

CITY OF PRESCOTT
Everybody's Hometown
PREPARED BY: | CHECKED BY: | FOR:

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION STRUCTURAL COVER SHEET

DWG. NO. S100
DATE 02 / 23 / 2024
SHEET NO. 37
OF 52

CIP #: 2208-002
REVIEW:

GENERAL STRUCTURAL NOTES

GENERAL

1. THESE GENERAL NOTES SUPPLEMENT THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN CASE OF CONFLICT WITH THE SPECIFICATIONS, CONTACT THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH THE WORK.

2. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE SITE AND LOCAL CONDITIONS.

3. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL BUILDING CODES, CODES OF APPLICABLE REGULATORY AGENCIES, AND WITH PROJECT SPECIFICATIONS AND DRAWINGS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADES AND FOR CHECKING ALL DIMENSIONS. REPORT DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.

5. THE CONTRACTOR SHALL COMPLY WITH LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING UPON THE PERFORMANCE OF THE WORK.

6. SUBJECT TO THE STRUCTURAL ENGINEER'S ACCEPTANCE, UTILIZE DETAILS FOR SIMILAR CONDITIONS WHEN DETAILS FOR CONSTRUCTION ARE NOT INDICATED FOR A SPECIFIC CONDITION.

7. DETAILS ON SHEETS TITLED "TYPICAL DETAILS" APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. TYPICAL DETAILS ARE NOT NOTED AT EACH LOCATION AT WHICH THEY ARE APPLICABLE.

8. WHERE NOT INDICATED ON THE STRUCTURAL DRAWINGS, SEE THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND ANY OTHER DRAWINGS FOR:

ELEVATIONS AND SLOPES,
SIZE, LOCATION AND EXTENT OF CURBS, FLOOR DEPRESSIONS, AND TOPPING SLABS,
SIZE AND LOCATION OF DRAINS, TRENCHES, SLAB OPENINGS, AND WALL OPENINGS,
SIZE, TYPE AND LOCATION OF NON-LOAD BEARING PARTITIONS,
CONCRETE AND STEEL FINISHES,
SIZE AND LOCATION OF SLEEVES AND HANGERS,
ITEMS EMBEDDED IN THE STRUCTURE OR PENETRATING THE STRUCTURE,
CONNECTION OF ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION OR ANY OTHER ITEMS TO THE STRUCTURE AND CONNECTION OF ITEMS NOT TYPICALLY DETAILED ON THE STRUCTURAL DRAWINGS,
WATERPROOFING AND DAMP PROOFING,
SITE AND SUBGRADE DRAINAGE SYSTEMS AND DETAILS.

9. CONNECTIONS OF ALL TRADES TO THE STRUCTURE SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR. CONNECTIONS TO STRUCTURAL MEMBERS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. RESPONSIBILITY FOR THE PERFORMANCE OF THE SUPPLIED SYSTEM AND ASSOCIATED CONNECTIONS SHALL REMAIN THAT OF THE CONTRACTOR. ALL CONNECTIONS SHALL BE DESIGNED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

10. OPENINGS AND PENETRATIONS THROUGH STRUCTURAL ELEMENTS AND ITEMS EMBEDDED IN STRUCTURAL ELEMENTS THAT ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REVIEWED BY STRUCTURAL ENGINEER PRIOR TO IMPLEMENTING WORK.

11. DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONAL INFORMATION.

12. DO NOT PLACE MATERIALS OR EQUIPMENT ON UNFINISHED FLOORS OR ROOFS IN EXCESS OF 20 PSF NOR ON FINISHED FLOORS OR ROOFS IN EXCESS OF THE INDICATED DESIGN LIVE LOADS. AVOID IMPACT LOADING.

13. THE STRUCTURE WAS DESIGNED FOR THE IN-SERVICE CONDITIONS ONLY. THE METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

14. DRAWINGS DO NOT INDICATE TEMPORARY REQUIREMENTS. NEED FOR TEMPORARY SHORING AND BRACING, TEMPORARY DEWATERING, TEMPORARY EARTH RETENTION, TEMPORARY WATER CUTOFF OR OTHER TEMPORARY MEASURES MAY BE INDICATED ON DRAWINGS AT SELECTED AREAS AS SUGGESTIONS FOR THE CONTRACTOR'S CONVENIENCE. THE DRAWINGS DO NOT IDENTIFY ALL AREAS OR CONDITIONS REQUIRING TEMPORARY MEASURES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM TEMPORARY MEASURES INDICATED ON THE DRAWINGS, IDENTIFY OTHER AREAS OR CONDITIONS REQUIRING TEMPORARY MEASURES, DETERMINE MOST EFFICIENT TEMPORARY SYSTEMS, AND DESIGN AND CONSTRUCT REQUIRED TEMPORARY SYSTEMS. ALL TEMPORARY SYSTEMS SHALL BE DESIGNED BY A LICENSED ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED.

15. INFORMATION RELATED TO EXISTING CONDITIONS REPRESENTS KNOWLEDGE BASED UPON INFORMATION PROVIDED BY THE OWNER BUT WITHOUT GUARANTEE OF ACCURACY. REPORT EXISTING CONDITIONS THAT VARY FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING CONSTRUCTION WHILE PERFORMING WORK. THE CONTRACTOR SHALL PROPERLY REINSTATE EXISTING FINISHES, FIREPROOFING OR ITEMS THAT ARE REMOVED OR DAMAGED WHILE PERFORMING WORK.

DESIGN CRITERIA

1. ALL CONSTRUCTION SHALL CONFORM TO THE MORE RESTRICTIVE OF THE FOLLOWING CODES, THE MOST RECENT EDITIONS OF THE STANDARDS ADOPTED BY THE AUTHORITY HAVING JURISDICTION AS REFERENCED THROUGHOUT THE STRUCTURAL GENERAL NOTES, AND THE FOLLOWING DESIGN CRITERIA:

2. BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS

3. BUILDING RISK CATEGORY (IBC TABLE 1604.5): II

4. DESIGN DEAD LOADS: SELF-WEIGHT OF MATERIALS AND SYSTEMS

5. DESIGN LIVE LOADS (REDUCIBLE WHERE ALLOWED PER BUILDING CODE):
ROOFS: 20 PSF
VEHICULAR DRIVEWAYS, AND YARDS SUBJECT TO TRUCKING: 250 PSF

6. DESIGN SNOW LOADS:
GROUND SNOW LOAD, Pg: 30 PSF
SNOW EXPOSURE FACTOR, Ce
NO ROOFTOP EQUIPMENT OR PARAPETS: 0.9
SNOW LOAD IMPORTANCE FACTOR, Is: 1.0
THERMAL FACTOR, Ct: 1.0
FLAT-ROOF SNOW LOAD, Pf
NO ROOFTOP EQUIPMENT OR PARAPETS: 27 PSF
SNOW DRIFT: AS CALCULATED AT APPLICABLE AREAS

7. DESIGN WIND LOADS:
LATERAL LOAD RESISTANCE SYSTEM (ASCE 7):
BASIC WIND SPEED: 101 MILES PER HOUR
WIND EXPOSURE: C
INTERNAL PRESSURE COEFFICIENT: +0.18, -0.18
COMPONENTS AND CLADDING: SEE TYPICAL DETAIL

8. DESIGN SEISMIC LOADS:
SITE CLASS: C
SEISMIC IMPORTANCE FACTOR, Ie: 1.0
MAPPED SPECTRAL RESPONSE ACCELERATION, Ss: 0.336g
MAPPED SPECTRAL RESPONSE ACCELERATION, S1: 0.103g
DESIGN SPECTRAL RESPONSE ACCELERATION, Sds: 0.292g
DESIGN SPECTRAL RESPONSE ACCELERATION, Sd1: 0.103g
SEISMIC DESIGN CATEGORY: B

BASIC SEISMIC-FORCE-RESISTING SYSTEM: LIGHT-FRAME WOOD WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
DETAILED FOR SEISMIC RESISTANCE
SEISMIC RESPONSE COEFFICIENT, Cs: 0.045
DESIGN BASE SHEAR: 0.045W
RESPONSE MODIFICATION FACTOR, R: 6.5
ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE (ASCE 7 SECTION 12.8)

FOUNDATIONS - GENERAL

1. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS INCLUDED IN GEOTECHNICAL ENGINEERING REPORT NO. 12118 BY ENGINEERING & TESTING CONSULTANTS, INC. DATED MARCH 24, 2023.

2. ALL SUBGRADES AND EXCAVATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING REINFORCING AND CONCRETE. NOTIFY THE GEOTECHNICAL ENGINEER WHEN THE SUBGRADES AND EXCAVATIONS ARE READY FOR INSPECTION.

3. ALL SUBGRADES SHALL BE PREPARED AND ALL FILL SHALL BE COMPACTED, AND MOISTURE CONTROLLED AS SPECIFIED IN THE GEOTECHNICAL REPORT AND THE PROJECT SPECIFICATIONS.

4. ALL SLAB ON GRADE AREAS SHALL BE INSPECTED BY A SOILS TESTING LABORATORY AND BE PROOF ROLLED. ALL SOFT SPOTS ENCOUNTERED SHALL BE REMOVED AND REPLACED TO FINISHED GRADE WITH APPROVED FILL MATERIAL AS SPECIFIED IN THE GEOTECHNICAL REPORT AND THE PROJECT SPECIFICATIONS.

5. NO FOUNDATIONS SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST OR ICE.

6. PLACE BACKFILL BEHIND RETAINING WALLS AFTER CONCRETE OR MASONRY HAS ATTAINED FULL DESIGN STRENGTH. BRACE RETAINING WALLS UNTIL ATTACHED FLOORS AND SLABS ON GRADE ARE COMPLETE AND HAVE ATTAINED FULL DESIGN STRENGTH. NO HEAVY EQUIPMENT SHALL BE ALLOWED WITHIN A 1H:1V SLOPE AS MEASURED FROM THE BASE OF THE WALL.

7. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY IN THE EVENT THAT THE SOILS CONDITIONS ENCOUNTERED VARY FROM THOSE SHOWN ON THE BORING LOGS OF THE GEOTECHNICAL ENGINEERING REPORT.

8. THE CONTRACTOR SHALL DESIGN AND CONSTRUCT ALL TEMPORARY CASING, PROTECTION, SHORING, BRACING, DEWATERING, AND UNDERPINNING NECESSARY TO COMPLETE THE WORK. ALL TEMPORARY SYSTEMS SHALL BE DESIGNED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

9. LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND AFTER CONSTRUCTION.

10. REMOVE ABANDONED FOUNDATIONS AND UTILITES WHICH INTERFERE WITH NEW CONSTRUCTION UNLESS OTHERWISE INDICATED.

11. CONCRETE WORK BELOW GRADE SHALL BE DETAILED AS WATERTIGHT CONSTRUCTION. CONSTRUCTION JOINTS BELOW GRADE SHALL BE WATERTIGHT.

SHALLOW FOUNDATIONS

1. ALL FOOTINGS SHALL BEAR ON 2' – 0" OF COMPACTED ENGINEERED FILL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF AT A MINIMUM DEPTH OF 18" BELOW FINISHED GRADE. COMPACTED ENGINEERED FILL SHALL EXTEND 5' – 0" MINIMUM BEYOND THE EDGE OF THE FOOTING.

2. LATERAL EARTH PRESSURES ARE AS FOLLOWS:

ACTIVE PRESSURE (UNRESTRAINED WALLS): 35 PCF
AT-REST PRESSURE (RESTRAINED WALLS): 58 PCF
PASSIVE PRESSURE: 350 PCF
COEFFICIENT OF FRICTION: 0.36

3. ALL FOUNDATIONS EXPOSED TO FROST SHALL BEAR AT MINIMUM DEPTH OF 18" BELOW FINISHED GRADE.

4. FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5 FEET OF EXTERIOR FOOTINGS.

CONCRETE

1. ALL CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".

2. CONCRETE DETAILING SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL SP-66 AND ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT". SUBMIT SHOP DRAWINGS FOR REVIEW.

3. CONCRETE PLACEMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".

4. PROVIDE ASTM C150 TYPE I OR TYPE II CEMENT UNLESS NOTED OTHERWISE. THE CEMENTITIOUS MATERIAL CONTENT SHALL BE ADEQUATE FOR THE SPECIFIED REQUIREMENTS FOR STRENGTH, WATER-CEMENTITOUS MATERIAL RATIO, DURABILITY, WORKABILITY, AND FINISHABILITY.

5. PROVIDE NORMAL-WEIGHT CONCRETE WITH 28-DAY COMPRESSIVE STRENGTHS AS INDICATED:

FOOTINGS: 3000 PSI
FOUNDATION WALLS: 4000 PSI
SLABS ON GRADE: 4000 PSI
WEIGH SCALE PIT WALLS AND MAT FOUNDATION: 4000 PSI

6. ALL CONCRETE REQUIRING LOW PERMEABILITY SHALL HAVE A MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO OF 0.50 AND A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI.

7. ALL CONCRETE SUBJECT TO FREEZING AND THAWING SHALL HAVE A MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO OF 0.45 AND A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI.

8. ALL CONCRETE SUBJECT TO FREEZING AND THAWING AND DEICING CHEMICALS SHALL HAVE A MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO OF 0.40 AND A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI.

9. ALL CONCRETE SLABS ON GRADE SHALL HAVE A MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO OF 0.45.

10. GYPSUM CONCRETE (GYPCRETE) SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2200 PSI AND A MAXIMUM DRY DENSITY OF 110 PCF.

11. CONCRETE SHALL HAVE, AT THE POINT OF DELIVERY, A SLUMP OF 4 INCHES AS DETERMINED BY ASTM C143. SLUMP TOLERANCES SHALL MEET THE REQUIREMENTS OF ACI 117. WHEN A PLASTICIZING ADMIXTURE OR HIGH-RANGE WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494 IS PERMITTED TO INCREASE THE SLUMP OF CONCRETE, CONCRETE SHALL HAVE BEEN PROPORTIONED TO A SLUMP OF 2 TO 4 IN. BEFORE THE ADMIXTURE IS ADDED AND A MAXIMUM SLUMP OF 8 IN. AT THE POINT OF DELIVERY AFTER THE ADMIXTURE IS ADDED.

12. ADDITION OF WATER TO A CONCRETE BATCH WITH INSUFFICIENT SLUMP WILL NOT BE PERMITTED, UNLESS THE SUPPLIER HAS SPECIFICALLY WITHHELD WATER FROM THE BATCH AT THE PLANT. IN SUCH CASE, THE MIX DESIGN AND TRUCK TICKET MUST CLEARLY STATE THE MAXIMUM AMOUNT OF WATER THAT CAN BE ADDED TO THE CONCRETE BATCH ON SITE. IN NO CASE SHALL THE MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO BE EXCEEDED.

13. ALL EXTERIOR CONCRETE SUBJECT TO FREEZING AND THAWING SHALL BE AIR ENTRAINED SO AS TO RESULT IN A TOTAL AIR CONTENT OF 6% +/- 1.5% FOR CONCRETE USING 3/4-INCH AND 1-INCH MAXIMUM AGGREGATE SIZE.

14. COLD WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI 306 "COLD WEATHER CONCRETING". HOT WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI 305 "HOT WEATHER CONCRETING".

15. NO CHLORIDES AND/OR ADMIXTURES CONTAINING CHLORIDES SHALL BE USED IN ANY CONCRETE.

CONCRETE CONTINUED

16. UNLESS A GREATER CONCRETE COVER IS REQUIRED FOR FIRE RESISTANCE, THE MINIMUM CONCRETE COVER FOR CAST-IN-PLACE CONCRETE REINFORCING STEEL SHALL CONFORM TO THE COVERS AS INDICATED:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER:
NO. 6 BAR AND LARGER: 2 INCHES
NO. 5 BAR AND SMALLER: 1-1/2 INCHES
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALLS, JOISTS:
NO. 14 AND NO. 18 BARS: 1-1/2 INCHES
NO. 11 BAR AND SMALLER: 3/4 INCHES
BEAMS, COLUMNS:
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS: 1-1/2 INCHES

17. CHAMFER ALL EXPOSED CORNERS WITH 3/4 INCH, 45 DEGREE CHAMFERS.

18. PROVIDE FINISHES AS INDICATED IN THE PROJECT SPECIFICATIONS AND IN THE ARCHITECTURAL DRAWINGS.

19. JOINTS NOT INDICATED SHALL BE MADE AND LOCATED TO LEAST IMPAIR THE STRENGTH AND APPEARANCE OF THE STRUCTURE. HORIZONTAL JOINTS ARE NOT PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE INDICATED. VERTICAL JOINTS SHALL OCCUR ONLY AT LOCATIONS ACCEPTED BY STRUCTURAL ENGINEER.

20. ROUGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS TO 1/4" INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES. LOCATE CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS. SUBMIT ALTERNATE JOINT LOCATIONS OR JOINTS NOT SHOWN TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK.

21. AT LOCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING CONCRETE, ROUGHEN CONTACT SURFACES TO 1/4 INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES.

22. AT LOCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING MASONRY, THOROUGHLY ROUGHEN CONTACT SURFACES BY LIGHT SANDBLASTING OR OTHER SUITABLE MEANS AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES.

23. CONTROL JOINTS FOR SLABS ON GRADE SHALL BE AS NOTED IN PLAN, OR, IF NOT NOTED, IN A SQUARE PATTERN AND BE NOT MORE THAN 15 FEET ON CENTER, UNLESS OTHERWISE NOTED. IF CONTROL JOINTS ARE CUT, THEY SHALL BE CUT WITHIN 12 HOURS AFTER THE CONCRETE IS PLACED.

24. PITCH CONCRETE SLABS AS REQUIRED TO FLOOR DRAINS. SLAB ON GRADE MINIMUM THICKNESS SHALL BE MAINTAINED AT SLOPED SLABS.

25. THE CONCRETE CONTRACTOR SHALL REVIEW ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND CONSULT WITH OTHER CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR PROPER LOCATION. NO CORING OF CAST-IN-PLACE CONCRETE IS ALLOWED WITHOUT PRIOR APPROVAL BY THE STRUCTURAL ENGINEER.

26. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PROCESS AND PLUMBING DRAWINGS FOR MISCELLANEOUS PADS. FURNISH AND INSTALL AS REQUIRED.

27. NO STRUCTURAL CONCRETE SHALL BE PLACED UNTIL THE CONCRETE DESIGN MIXES, THE CONCRETE PLACEMENT PROCEDURE, THE LOCATION OF CONSTRUCTION JOINTS AND THE SETTING OF REINFORCING STEEL IS REVIEWED BY THE STRUCTURAL ENGINEER AND ARCHITECT AS APPLICABLE.

28. CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, LAPS, SPACING AND PLACEMENT, LOCATIONS AND DETAILS OF ALL CONSTRUCTION JOINTS, SLAB DEPRESSIONS, OPENINGS, CURBS, AND ANY OTHER DETAILING REQUIRED TO DETAIL THE WORK SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

29. NO ALUMINUM OF ANY TYPE SHALL BE ALLOWED IN THE CONCRETE, UNLESS COATED TO PREVENT ALUMINUM-CONCRETE REACTION. THIS INCLUDES PUMPING THROUGH ALUMINUM PIPE.

30. FORMWORK, SHORING, AND RESHORING SHALL BE IN ACCORDANCE WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK". DESIGN AND DETAILING OF FORMWORK, SHORING, AND RESHORING SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL FORMWORK, SHORING, AND RESHORING SYSTEMS SHALL BE DESIGNED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

31. DO NOT REMOVE FORMWORK PRIOR TO CONCRETE BEING SUFFICIENTLY CURED TO PREVENT DAMAGE BY FORMWORK REMOVAL OR PRIOR TO CONCRETE ATTAINING 75% OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH.

32. CONCRETE FILL THICKNESS SHOWN ON THE DRAWINGS ARE MINIMUM THICKNESSES. NO ALLOWANCES HAVE BEEN SHOWN FOR ADDITIONAL CONCRETE REQUIRED TO COMPENSATE FOR FRAME, DECK, OR FORMWORK DEFLECTIONS TO MAINTAIN SURFACE TOLERANCES SPECIFIED.

33. HEADED CONCRETE ANCHORS SHALL BE MANUFACTURED BY NELSON STUD WELDING CO., LORAIN, OHIO, OR OTHER MANUFACTURER ACCEPTABLE TO STRUCTURAL ENGINEER. SEE DRAWINGS FOR DIAMETER AND NOMINAL LENGTH. INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MATERIAL SHALL CONFORM TO ASTM A108.

34. DEFORMED BAR ANCHORS SHALL BE MANUFACTURED BY NELSON STUD WELDING CO., LORAIN, OHIO, OR OTHER MANUFACTURER ACCEPTABLE TO STRUCTURAL ENGINEER. INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MATERIAL SHALL CONFORM TO ASTM A496.

35. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED. ENSURE FULL CONSOLIDATION OF CONCRETE AROUND REINFORCING STEEL, POST-TENSIONING STEEL, DOWELS, ANCHOR BOLTS, DEFORMED BAR ANCHORS, HEADED CONCRETE ANCHORS AND OTHER SIMILAR ITEMS DURING CONCRETE PLACEMENT.

36. CONCRETE SLABS ON GRADE AND CONCRETE TOPPING SLABS SHALL BE CONSTRUCTED PER ACI 302.1R "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" AND ACI 302.2R "GUIDE FOR CONCRETE SLABS THAT RECEIVE MOISTURE-SENSITIVE FLOORING MATERIALS". THE SLABS SHALL BE PLACED IN STRIP POURS. CONCRETE AGGREGATE MATERIALS SHALL BE SUFFICIENTLY GRADED AND CONCRETE SLABS-ON-GRADE SHALL BE CURED AS REQUIRED TO MINIMIZE POSSIBILITY OF SLAB CURLING.

37. CONTINUOUSLY MOIST CURE CONCRETE SLABS ON GRADE FOR 7 DAYS MINIMUM. WATER FOG SPRAYS, PONDING, SATURATED ABSORPTIVE COVERS, OR MOISTURE RETAINING COVERS MAY BE USED. CURING COMPOUNDS ARE NOT ACCEPTABLE.

38. TEST CYLINDERS SHALL BE MADE AND TESTED IN ACCORDANCE WITH ACI 318 SECTION 5.6.

CONCRETE REINFORCING STEEL

1. FABRICATE AND PLACE REINFORCING STEEL IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".

2. UNLESS NOTED OTHERWISE, REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCING STEEL THAT IS TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.

3. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064 AND SHALL BE PLAIN WIRE. SUPPLY IN FLAT SHEETS. ROLLS SHALL NOT BE PERMITTED. UNLESS NOTED OTHERWISE, LAPS OF WELDED WIRE REINFORCEMENT SHALL BE A MINIMUM OF TWO WIRE MESHES.

4. SMOOTH STEEL DOWELS IN SLABS ON GRADE SHALL CONFORM TO ASTM A36.

5. ALL FIELD BENDING OF REINFORCING SHALL BE PERFORMED COLD. HEATING OF BARS SHALL NOT BE PERMITTED.

6. UNLESS NOTED OTHERWISE, "CONTINUOUS" REINFORCEMENT SHALL HAVE MINIMUM TENSION LAP OF CLASS "B" PER ACI 318 AT SPLICES AND SHALL HOOK AT DISCONTINUOUS ENDS. REINFORCEMENT SPECIFIED AS CONTINUOUS SHALL BE CONTINUOUS THROUGH COLUMNS, PIERS, FOUNDATION CAPS OR OTHER INTERSECTING ELEMENTS. ALTERNATIVELY, REINFORCEMENT SPECIFIED AS CONTINUOUS SHALL BE LAP SPLICED WITH A CLASS "B" LAP SPLICE TO DOWELS IN THE INTERSECTING ELEMENTS THAT DEVELOP THE FULL YIELD STRENGTH OF THE CONTINUOUS REINFORCEMENT. FOR REQUIRED LAP SPLICE LENGTHS, SEE TYPICAL DETAIL.

CONCRETE REINFORCING STEEL CONTINUED

7. REINFORCEMENT SHALL BE CONTINUOUS ACROSS JOINTS AND AROUND CORNERS OR SPLICE BARS SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315 OR ACI 315R. CORNER BARS SHALL BE PROVIDED AT ALL WALL CORNERS, EQUAL TO THE HORIZONTAL WALL REINFORCEMENT.

8. DO NOT CUT OR WELD REINFORCING STEEL WITHOUT PRIOR ACCEPTANCE OF STRUCTURAL ENGINEER. WHEN WELDING IS INDICATED ON THE DRAWINGS, PROCEDURES SHALL BE IN ACCORDANCE WITH AWS D1.4.

9. PROVIDE REBAR CHAIRS FOR REINFORCING STEEL. PROVIDE ADDITIONAL LONGITUDINAL SUPPORT BARS AS REQUIRED TO ASSURE PROPER SUPPORT FOR REINFORCING STEEL AND WELDED WIRE REINFORCEMENT.

10. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN ON THE PLANS AND DETAILS. PLASTIC COATED ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.

POST-INSTALLED ANCHORS

1. POST-INSTALLED ANCHORS SHALL NOT BE SUBSTITUTED FOR CAST-IN ANCHORS WITHOUT PRIOR APPROVAL OF STRUCTURAL ENGINEER.

2. CONCRETE WEDGE EXPANSION ANCHORS, MADE OF STEEL, SHALL BE HILTI KWIK-BOLT TZ2 WEDGE ANCHOR (ICC-ES ESR-4266), SIMPSON STRONG-BOLT 2 WEDGE ANCHOR (ICC-ES ESR-3037), DEWALT POWER-STUD+SD2 WEDGE EXPANSION ANCHOR (ICC-ES ESR-2502) OR APPROVED EQUAL.

3. CONCRETE ADHESIVE ANCHORS SHALL BE HILTI HIT-RE 500 V3 ADHESIVE ANCHORAGE SYSTEMS (ICC-ES ESR-3814), SIMPSON SET-3G ADHESIVE ANCHORAGE SYSTEMS (ICC-ES ESR-4057), DEWALT PURE110+ ADHESIVE ANCHORAGE SYSTEMS (ICC-ES ESR-3298) OR APPROVED EQUAL. THREADED RODS USED IN ADHESIVE ANCHORAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ASTM F 1554, GRADE 36 FOR BASE PLATE ANCHOR RODS AND ASTM A193, GRADE B7 FOR ALL OTHER THREADED RODS UNLESS NOTED OTHERWISE. REINFORCING BARS USED IN ADHESIVE ANCHORAGE SYSTEMS SHALL BE ASTM A615, GRADE 60 REINFORCING BARS. REMOVE GREASE, OIL, RUST, AND OTHER LAITANCE FROM RODS AND DOWELS PRIOR TO INSTALLATION.

4. CONCRETE SCREW ANCHORS, MADE OF STEEL, SHALL BE HILTI KH-EZ (ICC-ES ESR-3027), SIMPSON TITEN HD (ICC-ES ESR-2713), DEWALT SCREW-BOLT (ICC-ES ESR-3889) OR APPROVED EQUAL.

5. MASONRY WEDGE EXPANSION ANCHORS, MADE OF STEEL, INSTALLED IN GROUT-FILLED CONCRETE BLOCK SHALL BE HILTI KWIK BOLT 1 EXPANSION ANCHOR (IAMPO-UES ER-677), SIMPSON STRONG-BOLT 2 (IAPMO-UES ER-240), DEWALT POWER-STUD+SD1 EXPANSION ANCHOR (ICC-ES ESR-2966) OR APPROVED EQUAL.

6. MASONRY ADHESIVE ANCHORS TO BE INSTALLED IN GROUT-FILLED CONCRETE BLOCK SHALL BE HILTI HIT-HY 270 ADHESIVE ANCHORAGE SYSTEMS (ICC-ES ESR-4143), SIMPSON SET-XP ADHESIVE ANCHORAGE SYSTEMS (IAPMO-UES ER-265), DEWALT AC100+GOLD ADHESIVE ANCHORAGE SYSTEMS (ICC-ES ESR-3200) OR APPROVED EQUAL. THREADED RODS USED IN ADHESIVE ANCHORAGE SYSTEMS SHALL MEET THE REQUIREMENTS OF ASTM A193, GRADE B7. REINFORCING BARS USED IN ADHESIVE ANCHORAGE SYSTEMS SHALL BE ASTM A615, GRADE 60 REINFORCING BARS. REMOVE GREASE, OIL, RUST, AND OTHER LAITANCE FROM RODS AND DOWELS PRIOR TO INSTALLATION.

7. MASONRY SCREW ANCHORS, MADE OF STEEL, INSTALLED IN GROUT-FILLED CONCRETE BLOCK SHALL BE HILTI KH-EZ (ICC-ES ESR-3056), SIMPSON TITEN HD (ICC-ES ESR-1056), DEWALT SCREW-BOLT+ (ICC-ES ESR-4042) OR APPROVED EQUAL.

8. PROVIDE STAINLESS STEEL FASTENERS FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.

9. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED, THE ENGINEER WILL DETERMINE A NEW LOCATION.

10. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

11. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE APPLICABLE ICC EVALUATION SERVICES REPORT.

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SHEET NO. 38 OF 52

CITY OF PRESCOTT PUBLIC WORKS
**SOLID WASTE SCALE AND FE

GENERAL STRUCTURAL NOTES

EMBEDDED ITEMS IN CONCRETE

1. INSTALL ANCHOR RODS, ACCURATELY LOCATED, TO ELEVATIONS REQUIRED AND COMPLYING WITH TOLERANCES IN SECTION 7.5 OF AISC'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."

2. EMBEDMENTS (CONDUITS, PIPES, SLEEVES, ETC.) OF ANY MATERIAL NOT HARMFUL TO CONCRETE, AND WITHIN LIMITATIONS NOTED BELOW, SHALL BE PERMITTED IN CONCRETE WITH APPROVAL OF THE STRUCTURAL ENGINEER, PROVIDED THEY ARE NOT CONSIDERED TO STRUCTURALLY REPLACE THE DISPLACED CONCRETE.

3. ANY ALUMINUM EMBEDMENTS IN STRUCTURAL CONCRETE SHALL BE COATED OR COVERED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.

4. CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A SLAB, WALL OR BEAM SHALL NOT IMPAIR SIGNIFICANTLY THE STRENGTH OF THE CONSTRUCTION.

5. CONDUITS AND PIPES, WITH THEIR FITTINGS, EMBEDDED WITHIN A COLUMN SHALL NOT DISPLACE MORE THAN 4 PERCENT OF THE CROSS-SECTIONAL AREA ON WHICH STRENGTH IS CALCULATED OR WHICH IS REQUIRED FOR FIRE PROTECTION.

6. CONDUITS AND PIPES EMBEDDED WITHIN A SLAB, WALL, OR BEAM, OTHER THAN THOSE MERELY PASSING THROUGH, SHALL SATISFY THE FOLLOWING:

THEY SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN 1/3 THE OVERALL THICKNESS OF SLAB, WALL, OR BEAM IN WHICH THEY ARE EMBEDDED;
THEY SHALL NOT BE SPACED CLOSER THAN THREE (3) DIAMETERS OR WIDTHS ON CENTER;
THEY SHALL NOT IMPAIR SIGNIFICANTLY THE STRENGTH OF THE CONSTRUCTION.

7. NO ELECTRICAL CONDUIT SHALL BE PLACED ABOVE THE WELDED WIRE REINFORCEMENT IN SLABS ON GRADE.

8. NO LIQUID, GAS, OR VAPOR, EXCEPT WATER NOT EXCEEDING 90 DEGREES FAHRENHEIT NOR 50 PSI PRESSURE, SHALL BE PLACED IN THE PIPES UNTIL THE CONCRETE HAS ATTAINED ITS DESIGN STRENGTH.

9. IN SOLID SLABS, PIPING, EXCEPT FOR RADIANT HEATING OR SNOW MELTING, SHALL BE PLACED BETWEEN TOP AND BOTTOM REINFORCEMENT.

10. SPECIFIED CONCRETE COVER FOR PIPES, CONDUITS, AND FITTINGS SHALL NOT BE LESS THAN 1-1/2 INCH FOR CONCRETE EXPOSED TO EARTH OR WEATHER, NOR LESS THAN 3/4 INCH FOR CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND.

11. REINFORCEMENT WITH AN AREA NOT LESS THAN 0.002 TIMES THE GROSS AREA OF THE CONCRETE SECTION SHALL BE PROVIDED AND PLACED PERPENDICULAR TO THE PIPING.

12. PIPING AND CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.

WOOD

1. PLYWOOD SHALL BE APA RATED SHEATHING, WITH AN EXTERIOR OR EXPOSURE 1 DURABILITY CLASSIFICATION AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY UP FLOOR AND ROOF WITH THE FACE GRAIN PERPENDICULAR TO SUPPORTS. STAGGER JOINTS. PROVIDE PLY CLIPS AT MIDSPAN OF ALL UNSUPPORTED PLYWOOD EDGES. ALL NAILING SHALL BE COMMON NAILS. IF GUN NAILS ARE USED IN LIEU OF COMMON NAILS, REDUCE NAIL SPACING TO 4" AT EDGE NAILING AND 8" AT INTERMEDIATE NAILING.

2. PLYWOOD PROPERTIES AND ATTACHMENT:

ROOF:
THICKNESS: 19/32"
SPAN/INDEX RATIO: 40/20
EDGE NAILING (COMMON NAILS): 10D (.148 DIA) AT 6" O.C.
FIELD NAILING (COMMON NAILS): 10D (.148 DIA) AT 12" O.C.
MINIMUM NAIL PENETRATION (IN FRAMING): 1-5/8"

SHEAR WALL:
THICKNESS PER SHEAR WALL SCHEDULE
SPAN/INDEX RATIO: 24/0
EDGE NAILING PER SHEAR WALL SCHEDULE
FIELD NAILING SIZE PER SHEAR WALL SCHEDULE, SPACING AT 12" O.C.
MINIMUM NAIL PENETRATION (IN FRAMING): 1-1/2"

3. THE FIRST SHEET OF PLYWOOD SHEATHING ADJACENT AND PARALLEL TO WALLS, PERIMETER MEMBERS OR MEMBERS IDENTIFIED AS CHORD, COLLECTOR OR DRAG MEMBERS (ON ONE OR BOTH SIDES AS APPLICABLE) SHALL BE FULL WIDTH SHEETS. ELSEWHERE MINIMUM SHEET WIDTH 2'-0".

4. SAWN FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCT ASSOCIATION OR THE WEST COAST LUMBER INSPECTIONS BUREAU. MAXIMUM MOISTURE CONTENT AT TIME OF INSTALL AND IN SERVICE NOT TO EXCEED 19%. ALL MEMBERS SIZES SHOWN IN STRUCTURAL DRAWINGS ARE NOMINAL SIZES U.N.O. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED GRADING AGENCY.

5. SAWN LUMBER PROPERTIES:

HEADERS, POSTS, TOP PLATES, AND SILL PLATES WITH THICKNESS LESS THAN OR EQUAL TO 4"
FB (PSI): 775
FV (PSI): 135
E (PSI): 1,100,000
FC PARALLEL (PSI): 1000
FC PERPENDICULAR (PSI): 335
SPECIES AND GRADE: SPRUCE-PINE-FIR No. 2

WALL STUDS, TRIMMERS, AND KING STUDS
FB (PSI): 775
FV (PSI): 135
E (PSI): 1,100,000
FC PARALLEL (PSI): 1000
FC PERPENDICULAR (PSI): 335
SPECIES AND GRADE: SPRUCE-PINE-FIR No. 2

6. GLULAM FRAMING MEMBERS SHALL BE FABRICATED PER LATEST A.I.T.C. OR A.P.A. E.W.S. STANDARDS. MEMBERS TO BEAR AN A.I.T.C. OR A.P.A. E.W.S. STAMP AND CERTIFICATE. ALL MEMBERS SHALL BE FABRICATED USING WATERPROOF GLUE. GLULAM BEAMS CANTILEVERING OVER SUPPORTS SHALL HAVE THE SPECIFIED MINIMUM PROPERTIES TOP AND BOTTOM. CAMBER AS SHOWN ON THE DRAWINGS. MAXIMUM MOISTURE CONTENT = 19%.

7. GLULAM PROPERTIES:
FB (PSI): 2400
FV (PSI): 265
E (PSI): 1,800,000
FC PARALLEL (PSI): 1650
FC PERPENDICULAR (PSI): 650

8. AT WOOD STUD WALLS, WOOD PLATE ANCHOR RODS SHALL BE ½" DIAMETER PLACED NOT TO EXCEED 4'-0" O.C. J-BOLTS ARE NOT ACCEPTABLE, UNLESS NOTED OTHERWISE. EVERY OTHER STUD OF WOOD FRAME BEARING WALL SHALL HAVE A SIMPSON H3 CLIP TOP AND BOTTOM, EXCEPT AT THOSE WALLS WHERE PLYWOOD SHEATHING IS NAILED DIRECTLY TO THE TOP AND BOTTOM PLATES. ANCHOR RODS SHALL BE PLACED AT ALL JAMBS, CORNERS, INTERSECTIONS, AND WALL ENDS. ALL PLATES OR SILLS AND SLEEPERS ON A CONCRETE SLAB, WHICH IS IN DIRECT CONTACT WITH EARTH, AND SILLS WHICH REST ON CONCRETE OR MASONRY FOUNDATIONS, SHALL BE TREATED WOOD AND MARKED OR BRANDED BY AN APPROVED AGENCY.

9. JOIST HANGERS AND OTHER MISCELLANEOUS FRAMING ANCHORS SHALL BE MANUFACTURED BY SIMPSON STRONGTIE COMPANY OR OTHER MANUFACTURER WITH I.C.C. APPROVAL. ALL NAIL HOLES IN JOIST HANGERS AND MISCELLANEOUS FRAMING ANCHORS SHALL BE FILLED WITH NAILS PER MANUFACTURER'S PUBLISHED NAIL SIZES.

10. STEEL STRAPS AND TENSION TIES SHALL BE MANUFACTURED BY SIMPSON STRONGTIE COMPANY. FOR STEEL STRAPS INSTALLED OVER SHEATHING, USE 2 1/2" LONG NAILS MINIMUM.

11. STEEL PURLIN ANCHORS SHALL BE MANUFACTURED BY SIMPSON STRONGTIE COMPANY. FOR STEEL PURLIN ANCHORS INSTALLED OVER SHEATHING AND SOLID SAWN LUMBER AND SOLID ENGINEERED WOOD MEMBERS, USE 3" LONG NAILS MINIMUM. FOR STEEL PURLIN ANCHORS INSTALLED OVER SHEATHING AND WOOD I-JOISTS, USE 2 1/8" LONG NAILS MINIMUM.

12. DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF STRUCTURAL ENGINEER. DOUBLE UP FLOOR JOISTS UNDER PARTITIONS. PROVIDE 1 X 3 OR METAL CROSS BRIDGING AT MIDSPAN AT ALL FLOOR JOISTS. PROVIDE 2" SOLID BLOCKING AT SUPPORT OF ALL JOISTS. DOUBLE UP STUDS AT JAMBS AND UNDER BEAMS IN BEARING WALLS. PROVIDE 2 X SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO TABLE 2304.9.1 (IBC).

PREFABRICATED WOOD TRUSSES

1. TRUSS SUPPLIER SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS FOR REVIEW. PRIOR TO FABRICATION OF TRUSSES THE TRUSS SUPPLIER SHALL SUBMIT A RECORD COPY OF SHOP DRAWINGS AND DESIGN CALCULATIONS INCORPORATING REVIEW COMMENTS. THE SHOP DRAWINGS SHALL BE CERTIFIED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

2. ALL CONNECTORS SHALL HAVE CURRENT ICC-ES APPROVAL AND SHALL BE DESIGNED AND SIZED FOR TWICE THE CALCULATED LOAD. NO OFFSETS FOR CONNECTIONS WILL BE PERMITTED. ALL TOP AND BOTTOM CHORD MATERIAL SHALL BE FINGER JOINTED AT SPLICES AND TENSION TESTED TO A MINIMUM OF 1.2 TIMES THE ALLOWABLE TENSION PARALLEL TO THE GRAIN (PER NATIONAL DESIGN SPECIFICATIONS).

3. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED TO SUPPORT THEIR OWN WEIGHT PLUS SUPERIMPOSED DEAD AND LIVE LOADS STATED IN THE GENERAL NOTES. THE TRUSS CHORDS SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM DEAD LOADS:

ROOF
TOP CHORD 10 PSF
BOTTOM CHORD 5 PSF

4. ALL PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED FOR AN ADDITIONAL 200 POUND POINT LOAD ANYWHERE ALONG THE SPAN.

5. ADDITIONAL PREFABRICATED WOOD TRUSSES SHALL BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT.

6. TRUSS SPACING SHALL NOT EXCEED 24 INCHES O.C.

7. DEFLECTION CRITERIA:

LIVE LOAD DEFLECTION
ROOF L/360

TOTAL LOAD DEFLECTION
ROOF L/240

PREFABRICATED WOOD TRUSSES CONTINUED

8. TRUSS PLATE MANUFACTURER SHALL BE A CURRENT MEMBER IN GOOD STANDING OF THE TRUSS PLATE INSTITUTE. THE TRUSS FABRICATOR SHALL PARTICIPATE IN A THIRD PARTY QUALITY ASSURANCE PROGRAM THAT IS APPROVED BY A CODE APPROVED INSPECTION AGENCY OR THAT MEETS THE REQUIREMENT OF THE TRUSS PLATE INSTITUTE.

9. TRUSS PLATE CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE AND SUBMITTED WITH DESIGN CALCULATIONS. TRUSS MANUFACTURER SHALL PROVIDE ALL TRUSS-TO-TRUSS, AND TRUSS-TO-GIRDER TRUSS CONNECTION DETAILS AND NECESSARY CONNECTION MATERIALS.

10. THE CONFIGURATION OF THE WEB MEMBERS FOR ROOF TRUSSES SHALL BE DETERMINED BY THE MANUFACTURER IN ACCORDANCE WITH ALL ARCHITECTURAL AND STRUCTURAL CRITERIA.

11. EXACT CONFIGURATION OF SPECIAL HIP, VALLEY AND INTERSECTION AREAS SHALL BE DETERMINED BY THE TRUSS SUPPLIER, UNLESS NOTED OTHERWISE ON PLANS.

12. ALL ROOF TRUSS BEARING POINTS SHALL BE ANCHORED WITH A MINIMUM OF ONE SIMPSON H1 TRUSS ANCHOR. ALL FLOOR TRUSS BEARING POINTS SHALL BE ANCHORED WITH A MINIMUM OF ONE SIMPSON H2.5 TRUSS ANCHOR.

13. SITE FABRICATED TRUSSES ARE NOT PERMITTED.

14. BRIDGING AND PERMANENT BRACING REQUIRED FOR TRUSSES ARE NOT SHOWN ON STRUCTURAL DRAWINGS. MANUFACTURER SHALL PROVIDE DESIGN/MATERIALS AND INSTALLATION OF ALL NECESSARY BLOCKING, BRACING, AND CONNECTION MATERIAL TO COMPLETE THE INSTALLATION, UNLESS NOTED OTHERWISE. COMPLY WITH ALL RECOMMENDATIONS BY THE MANUFACTURER AND THE APPROVED SHOP DRAWINGS FOR PROPER STORAGE, HANDLING, PROTECTION, INSTALLATION, AND TEMPORARY BRACING REQUIREMENTS.

15. NOTCHING OR CUTTING OF TRUSSES, TOP OR BOTTOM CHORDS IS NOT PERMITTED.

16. A QUALIFIED REPRESENTATIVE OF THE OPEN WEB WOOD CHORD TRUSS MANUFACTURER SHALL INSPECT AND APPROVE THE SYSTEM INSTALLATION PRIOR TO INSTALLING FINISH MATERIALS TO BE CERTAIN THAT THE SYSTEM IS IN COMPLIANCE WITH ALL REQUIREMENTS OF THE SHOP DRAWINGS. SUBMIT A WRITTEN REPORT SUMMARIZING THE INSPECTION AND THE PRODUCT WARRANTY TO THE OWNER AT THE COMPLETION OF THE PRODUCT. COPY THE ENGINEER WITH THE REPORT.

17. PREFABRCIATED WOOD TRUSSES ARE DEFERRED SUBMITTAL ITEM.

SHOP DRAWINGS

1. SHOP DRAWINGS ARE TO BE SUBMITTED FOR ALL STRUCTURAL ITEMS AND AS REQUIRED BY THE SPECIFICATIONS. CONTRACT DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.

2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE ENGINEER OF RECORD PRIOR TO FABRICATION.

3. CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS AND PRODUCT DATA FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTAL. ALL ITEMS NOT IN ACCORDANCE WITH THE CONTRACT SHALL BE SO NOTED UPON THE CONTRACTOR'S REVIEW. ANY SHOP DRAWINGS OR PRODUCT DATA NOT REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR WILL BE RETURNED WITHOUT REVIEW.

4. ANY SHOP DRAWING NOT CHECKED AND INITIALED BY THE SUPPLIER/DETAILER PRIOR TO SUBMITTING FOR ARCHITECTURAL AND ENGINEERING REVIEW WILL BE RETURNED WITHOUT REVIEW.

5. ANY CHANGE FROM THE ORIGINAL DRAWINGS SHALL BE NOTED BY THE SUBMITTING PARTY. ANY CHANGES NOT CALLED OUT SHALL BE CONSIDERED NOT APPROVED UNLESS SPECIFICALLY NOTED OTHERWISE. THE SHOP DRAWING STAMP SHALL NOT BE CONSIDERED IMPLIED APPROVAL OF ANY CHANGES.

6. SHOP DRAWINGS SHALL NOT REPLACE THE CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY AND NOT NOTED BY THE REVIEWER ARE NOT TO BE CONSIDERED CHANGES TO THE CONTRACT DRAWINGS. REVIEW IS INTENDED AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ITEMS ARE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DRAWINGS.

7. ANY ENGINEERING DESIGN PERFORMED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE APPROPRIATE JURISDICTION AND DISCIPLINE. COMPLETE DESIGN CALCULATIONS FOR EACH MEMBER SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE ENGINEER OF RECORD. THE ADEQUACY OF DESIGNS AND LAYOUTS PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING PARTY.

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DWG. NO. S120
DATE 02 / 23 / 2024
SHEET NO. 39 OF 52

CITY OF PRESCOTT PUBLIC WORKS
SOLID WASTE SCALE AND FEE BOOTH RELOCATION
GENERAL STRUCTURAL NOTES

PREPARED BY | CHECKED BY | FOR:
CITY OF PRESCOTT Everybody's Hometown

Professional Engineer CERTIFICATE NO. 47939 MANUEL J. De La ROSA 2/23/24 Date Signed
EXPIRES 6-30-26

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NO.	BY	DATE	REVISIONS	APPRV	DATE
				CITY	

ENGINEER

REVIEW:

CIP #: 2208-002

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH:
Autodesk Docs//2214_PRESCOTT SOLID WASTE FEE BOOTH/CoPrescott Weigh Station Fee Booth_STRUCT_R23.rvt

ABBREVIATIONS, PLAN LEGEND, & SSI'S

SPECIAL INSPECTIONS

1. THE OWNER SHALL EMPLOY SPECIAL INSPECTORS, QUALIFIED TO THE SATISFACTION OF THE BUILDING OFFICIAL, WHO SHALL PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE WORK INDICATED BY THE SPECIAL INSPECTIONS TABLES ON THE APPROVED DESIGN DRAWINGS.

2. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY. INSPECTORS FOR EACH SYSTEM AND MATERIAL SHALL BE INTERNATIONAL CODE COUNCIL (ICC) CERTIFIED OR OTHERWISE APPROVED BY THE BUILDING OFFICIAL.

3. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

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

5. SEE PROJECT SPECIFICATIONS AND REFERENCED STANDARDS FOR FREQUENCY OF TESTING.

6. AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF PREVIOUSLY NOTED DISCREPANCIES SHALL BE SUBMITTED.

7. THE FOLLOWING TYPES OF WORK SHALL BE INSPECTED BY A SPECIAL INSPECTOR IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE:

(2018 IBC) REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

*SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK. **WHERE APPLICABLE, SEE SECTION 1705.12, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD**	IBC REFERENCE
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	---	X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
REINFORCING BAR WELDING				
- VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	---	X	AWS D1.4, ACI 318: 26.6.4	---
- INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		X	AWS D1.4, ACI 318: 26.6.4	---
- INSPECT ALL OTHER WELDS	X	---	AWS D1.4, ACI 318: 26.6.4	---
INSPECTION OF ANCHORS CAST IN CONCRETE	---	X	ACI 318: 17.8.2	---
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS*				
- ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	---	ACI 318: 17.8.2.4	---
- MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE	---	X	ACI 318: 17.8.2	---
VERIFY USE OF REQUIRED DESIGN MIX	---	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	---	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	---	ACI 318: 26.5	1908.6, 1908.7, 1908.8
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	---	X	ACI 318: 26.5.3 - 26.5.5	1908.9
INSPECTION OF PRESTRESSED CONCRETE FOR:				
- APPLICATION OF PRESTRESSING FORCES	X	---	ACI 318: 26.10	---
- GROUTING OF BONDED PRESTRESSING TENDONS	X	---	ACI 318: 26.10	---
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	---	X	ACI 318: 26.9	---
VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED	---	X	ACI 318: 26.11.2	---
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	---	X	ACI 318: 26.11.1.2(b)	---

(2018 IBC) REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	IBC REFERENCE
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	---	X	1705.6
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X	1705.6
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	---	X	1705.6
VERIFY THE USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	X	---	1705.6
PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	---	X	1705.6

(2018 IBC) REQUIRED SPECIAL INSPECTIONS OF WOOD CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	IBC REFERENCE
INSTALLATION OF THE TEMPORARY RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE	---	X	1705.2.4

ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ARCH	ARCHITECT OR ARCHITECTURAL DOCUMENTS
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BP	BASE PLATE
BOD	BOTTOM OF DECK
CC	CONCRETE COLUMN
CB	CONCRETE BEAM
CALCS	CALCULATIONS
CJ	CONTROL JOINT OR CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
C	COLUMN
DEG	DEGREE
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DP	DRILLED PIER
E	MODULUS OF ELASTICITY
EOD	EDGE OF ROOF DECK
EOS	EDGE OF SLAB
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
EXT	EXTERIOR
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FT	FOOT (FEET)
F	FOOTING
FY	YIELD STRESS STEEL
G	GRATING
GA	GAGE OR GAUGE
GB	GRADE BEAM
GSN	GENERAL STRUCTURAL NOTES
H.P.	HIGH POINT
HS	HIGH STRENGTH
HT	HEIGHT
I (IN4)	MOMENT OF INERTIA
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIAMETER
IN	INCH
K	KIP = 1000 LBS
KSI	KIPS PER SQUARE INCH
L	LEDGER
LBS	POUND(S)
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LT	LINTEL
LP	LOW POINT
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MIN	MINIMUM
NAAMM	NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O.C.	ON CENTER
OPP	OPPOSITE
PCI	PRESTRESSED CONCRETE INSTITUTE
PC	PILE/PIER CAP
PCF	POUNDS PER CUBIC FOOT
PLF	POUNDS PER LINEAR FOOT
PSI	POUNDS PER SQUARE INCH
PT, P/T	POST-TENSIONED
PSF	POUNDS PER SQUARE FOOT
SDI	STEEL DECK INSTITUTE
SL	SNOW LOAD
SIB	STRUCTURAL ISOLATION BREAK
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SS	STAINLESS STEEL
SW	SHEARWALL
TL	TOTAL LOAD
TOC	TOP OF CONCRETE
TODP	TOP OF DRILLED PIER
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UT	ULTRASONIC TESTING
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT
WF	WALL FOOTING
W	WALL
X-STRONG	EXTRA STRONG
XX-STRONG	DOUBLE EXTRA STRONG
#	NUMBER

HOLDOWN (1) SCHEDULE

GENERAL HOLDOWN NOTES:

A. HOLDOWN INSTALLATION PER TYPICAL DETAILS.
B. AT CONTRACTOR'S OPTION - SIMPSON ATS HOLDOWN SYSTEM MAY BE USED IN LIEU OF HOLDOWNS SHOWN PROVIDED ENGINEERED DRAWINGS AND CALCULATIONS ARE SUBMITTED AND APPROVED BY ENGINEER OF RECORD (EOR).
C. STRAP END LENGTHS: (END LENGTH LOCATION AND REQUIREMENTS PER TYPICAL DETAILS).
CS20 = 9", CS14 = 16", CS16 = 13", CMSTC16 = 20", CMST14 = 30".

MARK	SIMPSON HOLDOWN/ STRAP	SIMPSON ANCHOR				POST SIZE U.N.O.		POST ATTACHMENT	REMARKS
		Ø	MODEL	EMBED "le"	MIN EDGE DISTANCE "F"	6" WALL	4" WALL		
1	CS20	N/A	N/A	N/A	N/A	(2) 2x6 MIN	(2) 2x4 MIN	(14) 0.131 X 2 1/2	NOTES 1 AND 5
2	CS16	N/A	N/A	N/A	N/A	(2) 2x6 MIN	(2) 2x4 MIN	(22) 0.131 X 2 1/2	NOTES 1 AND 5
3	CS14	N/A	N/A	N/A	N/A	(2) 2x6 MIN	(3) 2x4 MIN	(30) 0.131 X 2 1/2	NOTES 1 AND 5
4	CMST14	N/A	N/A	N/A	N/A	(3) 2x6 MIN	4x8 MIN	(66) 0.131 X 2 1/2	NOTE 1
5	CMSTC16	N/A	N/A	N/A	N/A	(2) 2x6 MIN	(3) 2x4 MIN	(50) 0.148 X 3 1/4	NOTE 1
6	STHD14	N/A	N/A	14"	N/A	(3) 2x6 MIN	(3) 2x4 MIN	(30) 0.148 X 3 1/4	-
7	HDU2-SDS2.5	5/8"	PAB5	5 1/2"	8 1/2"	(3) 2x6 MIN	(3) 2x4 MIN	(6) SDS 1/4" X 2 1/2"	NOTES 2 AND 3
8	HDU5-SDS2.5	5/8"	PAB5	5 1/2"	8 1/2"	(3) 2x6 MIN	4x6 MIN	(14) SDS 1/4" X 2 1/2"	NOTES 2 AND 3
9	HDU8-SDS2.5	7/8"	PAB7	8 1/2"	13"	(3) 2x6 MIN	4x8 MIN	(20) SDS 1/4" X 2 1/2"	NOTES 2 AND 3
10	HDU11-SDS2.5	1"	PAB8	10"	15"	(5) 2x6 MIN	4x10 MIN	(30) SDS 1/4" X 2 1/2"	NOTES 2 AND 3
11	HDU14-SDS2.5	1"	PAB8	10"	15"	6x6 MIN	N/A	(36) SDS 1/4" X 2 1/2"	NOTES 2 AND 3
12	HD19	1 1/4"	PAB10	13 1/2"	20 1/2"	6x6 MIN	N/A	(5) 1"Ø BOLTS	NOTES 2 AND 3

NOTES:

1. TO MINIMIZE THE BOWING OF FLOOR-TO-FLOOR STRAP HOLDOWNS, FILL ALL HOLES IN THE STRAP INCLUDING THOSE HOLES IN THE RIM JOIST AREA. ALTERNATIVELY, FILL THE HOLES IN THE TOP PORTION OR THE STRAP BEFORE THE FLOOR LEVEL ABOVE IS INSTALLED, AND THEN FILL THE BOTTOM PORTION AFTER.

2. WHEN HOLDOWN ANCHOR IS CONNECTED TO ELEVATED CONCRETE SLAB, USE SIMPSON SAR TYPE ANCHOR WITH SAME DIAMETER. ANCHOR EMBEDMENT DEPTH AND INSTALLATION PER TYPICAL DETAILS.

3. SEE TYPICAL DETAILS FOR HOLDOWN AT FOUNDATION. AT PERIMETER CONDITIONS WHERE ANCHOR EDGE DISTANCE "F" CANNOT BE MET, PROVICE SPREAD FOOTING. AT INTERIOR CONDITIONS, THICKEN SLAB AS REQUIRED.

4. AT 8" WALLS WITH HOLDOWNS, REPLACE POST SIZE WITH SAME SIZE WIDTH BY 8" DEEP POSTS (6x6 POST BECOMES 6x8 POST).

5. SIMPSON HDU5 MAY BE USED IN LIEU OF HOLDOWN STRAPS 1 TO 3 AT STACKING SHEARWALLS ONLY.

PLAN LEGEND

SYMBOL	DESCRIPTION	REMARKS
1	KEYNOTE REFERENCE	PER KEYED NOTES ON PLAN
A	MECHANICAL EQUIPMENT	PER MECHANICAL EQUIPMENT SCHEDULE
	OPENING IN FLOOR OR ROOF	PER TYPICAL DETAILS U.N.O.
	MASONRY WALL	SIZE AND REINFORCING PER WALL (W) SCHEDULE
	CONCRETE WALL	SIZE AND REINFORCING PER WALL (W) SCHEDULE
	WALL BELOW THAT DOES NOT EXTEND TO STRUCTURE	
	WALL BELOW THAT EXTENDS TO STRUCTURE	
	WOOD STUD WALL	PER TYPICAL WOOD FRAMING WALL SCHEDULE U.N.O.
	MOMENT CONNECTION	PER PLANS AND DETAILS
	COLLECTOR BEAM	PER PLANS AND DETAILS
	BRACED FRAME	PER PLANS AND BRACED FRAME ELEVATIONS
	PLYWOOD SHEATHING	PER PLANS AND GENERAL STRUCTURAL NOTES
	GYPCRETE OVER PLYWOOD SHEATHING	PER PLANS AND GENERAL STRUCTURAL NOTES
	CONCRETE SLAB	PER PLANS
	STEEL DECK	PER PLANS AND GENERAL STRUCTURAL NOTES
	CONCRETE OVER STEEL DECK	PER PLANS AND GENERAL STRUCTURAL NOTES

WALL FOOTING (WF) SCHEDULE

SCHEDULED REINFORCING IS BOTTOM REINFORCING U.N.O.

REINFORCING LAYOUT AND CLEARANCES PER TYPICAL DETAILS.

NOTES:

MARK	DIMENSIONS			REINFORCING		REMARKS
	"W"	"L"	"H"	LONGITUDINAL	TRANSVERSE	
WF1	2' - 0"	CONTINUOUS	1' - 0"	-	-	

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SOLID WASTE SCALE AND FEE BOOTH RELOCATION
STRUCTURAL
ABBREVIATIONS & LEGEND

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

CITY OF PRESCOTT
Everybody's Hometown

PREPARED BY | CHECKED BY | FOR:

Registered Professional Engineer
CERTIFICATE NO.
47939
MANUEL J. De La ROSA
EXPIRES 6-30-26

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FILE NAME&PATH:
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STRAIGHT BAR DEVELOPMENT LENGTH TABLE

CASE	DEVELOPMENT LENGTH (INCHES)																	
	BAR SIZE	#3		#4		#5		#6		#7		#8		#9		#10		#11	
	BAR DIAMETER	0.375"Ø		0.500"Ø		0.625"Ø		0.750"Ø		0.875"Ø		1.000"Ø		1.128"Ø		1.270"Ø		1.410"Ø	
	CASTING POSITION	T	O	T	O	T	O	T	O	T	O	T	O	T	O	T	O	T	O
1	3000 PSI	22	17	29	22	36	28	43	33	63	48	72	55	81	62	91	70	101	78
	4000 PSI	19	15	25	19	31	24	37	29	54	42	62	48	70	54	79	61	87	67
	5000 PSI	17	13	23	17	28	22	34	26	49	38	56	43	63	48	70	54	78	60
	6000 PSI	16	12	21	16	26	20	31	24	45	34	51	39	57	44	64	50	71	55
2	3000 PSI	32	25	43	33	54	42	65	50	94	72	107	83	121	93	136	105	151	116
	4000 PSI	28	22	37	29	47	36	56	43	81	63	93	72	105	81	118	91	131	101
	5000 PSI	25	20	34	26	42	32	50	39	73	56	83	64	94	72	106	81	117	90
	6000 PSI	23	18	31	24	38	29	46	35	67	51	76	59	86	66	96	74	107	82

CASE 1:
CLEAR SPACING OF BARS BEING DEVELOPED IS NOT LESS THAN 1 BAR DIAMETER, CLEAR COVER IS NOT LESS THAN 1 BAR DIAMETER, AND TIES OR STIRRUPS ARE PRESENT THROUGHOUT THE DEVELOPMENT LENGTH
OR
THE CLEAR SPACING OF BARS BEING DEVELOPED IS NOT LESS THAN 2 BAR DIAMETERS AND CLEAR COVER IS NOT LESS THAN 1 BAR DIAMETER

CASE 2:
ALL OTHER CASES

NOTE:

1. TOP BARS (T IN TABLE) ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THE BAR. OTHER BARS (O IN TABLE) ARE ALL VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12" OF FRESH CONCRETE CAST BELOW THE BAR.

2. STRAIGHT BAR DEVELOPMENT LENGTH SHALL NOT BE USED AS LAP SPLICE LENGTHS. SEE CLASS "B" TENSION LAP SPLICE TYPICAL DETAIL FOR LAP SPLICE LENGTHS.

T9 / S131 TYPICAL DETAIL - STRAIGHT BAR DEVELOPMENT LENGTHS FOR UNCOATED GRADE 60 REINFORCING STEEL IN NORMAL WEIGHT CONCRETE
SCALE: NTS

HOOKED BAR DEVELOPMENT LENGTH TABLE

CASE	DEVELOPMENT LENGTH (INCHES)									
	BAR DIAMETER	0.375"Ø	0.500"Ø	0.625"Ø	0.750"Ø	0.875"Ø	1.000"Ø	1.128"Ø	1.270"Ø	1.410"Ø
	BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
1	3000 PSI	6	8	10	12	14	16	18	20	22
	4000 PSI	6	7	9	10	12	14	15	17	19
	5000 PSI	6	6	8	9	11	12	14	16	17
	6000 PSI	6	6	7	9	10	11	13	14	16
2	3000 PSI	9	11	14	17	20	22	25	28	31
	4000 PSI	8	10	12	15	17	19	22	25	27
	5000 PSI	7	9	11	13	15	17	20	22	24
	6000 PSI	6	8	10	12	14	16	18	20	22

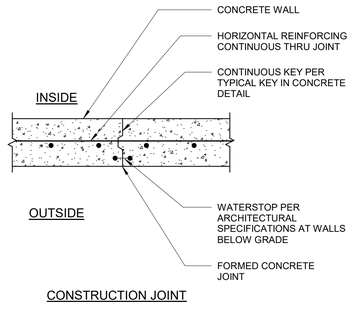
CASE 1:
THE SIDE COVER (NORMAL TO THE PLANE OF HOOK) OF BARS BEING DEVELOPED IS NOT LESS THAN 2 1/2"
AND
THE END COVER ON BAR EXTENSION BEYOND HOOK FOR HOOKED BARS BEING DEVELOPED IS NOT LESS THAN 2"

CASE 2:
ALL OTHER CASES

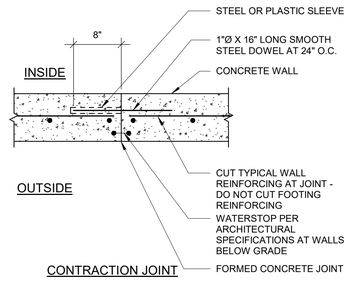
NOTE:

HOOKED BAR DEVELOPMENT LENGTH SHALL NOT BE USED AS LAP SPLICE LENGTH. SEE CLASS "B" TENSION LAP SPLICE TYPICAL DETAIL FOR LAP SPLICE LENGTHS.

T11 / S131 TYPICAL DETAIL - HOOKED BAR DEVELOPMENT LENGTHS FOR UNCOATED GRADE 60 REINFORCING STEEL IN NORMAL WEIGHT CONCRETE
SCALE: NTS



CONSTRUCTION JOINT



CONTRACTION JOINT

NOTES:

1. LOCATION OF CONSTRUCTION JOINTS NOT SHOWN ON PLANS TO BE APPROVED BY STRUCTURAL ENGINEER THRU ARCHITECT

2. LOCATE CONTRACTION JOINTS IN WALLS TO ALIGN WITH CONSTRUCTION JOINTS IN SUSPENDED STRUCTURAL SLABS WHEREVER PRACTICAL - LOCATE JOINTS 100'-0" O.C. MAXIMUM IN BASEMENT WALLS - LOCATE JOINTS 30'-0" O.C. MAXIMUM IN OTHER WALLS - LOCATION OF JOINTS TO BE APPROVED BY STRUCTURAL ENGINEER THRU ARCHITECT

T5 / S131 TYPICAL DETAIL - PLAN VIEW - JOINTS IN CONCRETE WALL
SCALE: NTS

CLASS B TENSION LAP SPLICE TABLE

CASE	SPLICE LENGTH (INCHES)																		
	BAR SIZE	#3		#4		#5		#6		#7		#8		#9		#10		#11	
	BAR DIAMETER	0.375"Ø		0.500"Ø		0.625"Ø		0.750"Ø		0.875"Ø		1.000"Ø		1.128"Ø		1.270"Ø		1.410"Ø	
	CASTING POSITION	T	O	T	O	T	O	T	O	T	O	T	O	T	O	T	O	T	O
1	3000 PSI	28	22	38	29	47	36	56	43	81	63	93	72	105	81	118	91	131	101
	4000 PSI	25	19	33	25	41	31	49	37	71	54	81	62	91	70	102	79	114	87
	5000 PSI	22	17	29	23	36	28	44	34	63	49	72	56	81	63	92	71	102	78
	6000 PSI	20	16	27	21	33	26	40	31	58	45	66	51	74	57	84	64	93	71
2	3000 PSI	42	33	56	43	70	54	84	65	122	94	139	107	157	121	177	136	196	151
	4000 PSI	37	28	49	37	61	47	73	56	106	81	121	93	136	105	153	118	170	131
	5000 PSI	33	25	44	34	54	42	65	50	95	73	108	83	122	94	137	106	152	117
	6000 PSI	30	23	40	31	50	38	59	46	86	67	99	76	111	86	125	96	139	107

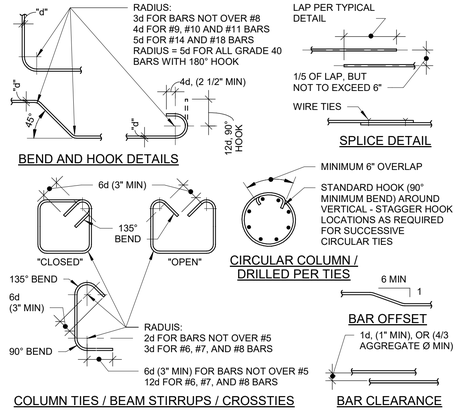
CASE 1:
CLEAR SPACING OF BARS BEING SPLICED IS NOT LESS THAN 1 BAR DIAMETER, CLEAR COVER IS NOT LESS THAN 1 BAR DIAMETER, AND TIES OR STIRRUPS ARE PRESENT THROUGHOUT THE SPLICE LENGTH NOT LESS THAN THE CODE MINIMUM
OR
THE CLEAR SPACING OF BARS BEING SPLICED IS NOT LESS THAN 2 BAR DIAMETERS AND CLEAR COVER IS NOT LESS THAN 1 BAR DIAMETER

CASE 2:
ALL OTHER CASES

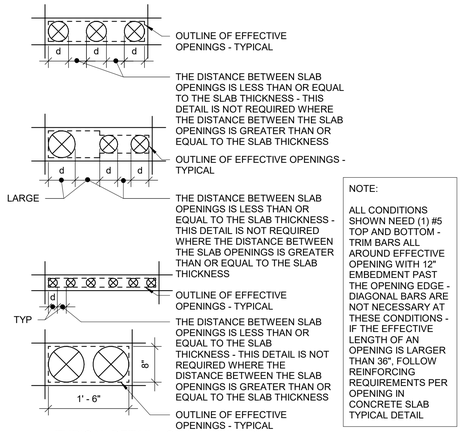
NOTE:

TOP BARS (T IN TABLE) ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THE BAR. OTHER BARS (O IN TABLE) ARE ALL VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12" OF FRESH CONCRETE CAST BELOW THE BAR

T7 / S131 TYPICAL DETAIL - CLASS "B" TENSION LAP SPLICE LENGTHS FOR UNCOATED GRADE 60 REINFORCING STEEL IN NORMAL WEIGHT CONCRETE
SCALE: NTS



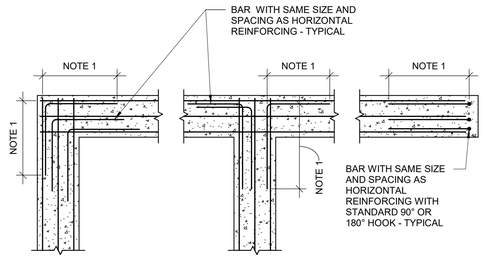
T1 / S131 TYPICAL DETAIL - CONCRETE REINFORCING BARS
SCALE: NTS



NOTE:

ALL CONDITIONS SHOWN NEED (1) #5 TOP AND BOTTOM - TRIM BARS ALL AROUND EFFECTIVE OPENING WITH 12" EMBEDMENT PAST THE OPENING EDGE - DIAGONAL BARS ARE NOT NECESSARY AT THESE CONDITIONS - IF THE EFFECTIVE LENGTH OF AN OPENING IS LARGER THAN 36", FOLLOW REINFORCING REQUIREMENTS PER OPENING IN CONCRETE SLAB TYPICAL DETAIL

T2 / S131 TYPICAL DETAIL - SMALL MULTIPLE OPENINGS IN CONCRETE SLAB OR WALL
SCALE: NTS



NOTE:

CLASS "B" TENSION LAP SPLICE OR 24", WHICHEVER IS GREATER

T3 / S131 TYPICAL DETAIL - PLAN VIEW - REINFORCING IN CONCRETE FOOTING
SCALE: NTS

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

CITY OF PRESCOTT PUBLIC WORKS
PWC. NO. S131
DATE 02 / 23 / 2024
SHEET NO. 41 OF 52

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
STRUCTURAL
TYPICAL DETAILS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

CITY OF PRESCOTT Everybody's Hometown
PREPARED BY: CHECKED BY: FOR:

Registered Professional Engineer (Civil) CERTIFICATE NO. 47939 MANUEL J. De La ROSA
EXPIRES 6-30-26

Kimley»Horn
© 2024 KIMLEY-HORN & ASSOCIATES, INC.
101 W. GOODWIN ST., SUITE 303
PRESCOTT, ARIZONA 86303
PHONE: 928-458-7121
WWW.KIMLEY-HORN.COM

NO.	BY	DATE	APPRV	DATE
				CITY

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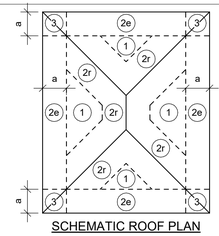
REVIEW:

ENGINEER

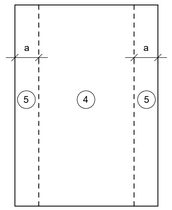
CIP #: 2208-002

FILE NAME&PATH:
Autodesk Docs://2214_PRESCOTT SOLID WASTE FEE BOOTH/CoPrescott Weigh Station Fee Booth_STRUCT_R23.rvt

ULTIMATE WIND SURFACE PRESSURE (PSF)						
ZONE	EFFECTIVE WIND AREA (SQ. FT)					
	10	20	50	100	200	500
1	-27.9 16.6	-27.9 16.0	-24.7 16.0	-22.2 16.0	-22.2 16.0	-22.2 16.0
2e	-37.3 16.6	-34.3 16.0	-30.2 16.0	-27.2 16.0	-24.1 16.0	-24.1 16.0
2r	-48.6 16.6	-43.8 16.0	-37.5 16.0	-32.7 16.0	-27.9 16.0	-27.9 16.0
3	-52.4 16.6	-47.2 16.0	-40.2 16.0	-35.0 16.0	-29.8 16.0	-29.8 16.0
4	-24.1 22.2	-23.1 21.2	-21.8 19.9	-20.8 18.9	-19.8 17.9	-18.5 16.6
5	-29.8 22.2	-27.8 22.2	-25.1 19.9	-23.1 18.9	-21.1 17.9	-18.5 16.6
PARAPET	---	---	---	---	---	---



SCHEMATIC ROOF PLAN



SCHEMATIC WALL ELEVATION

NOTES:

1. WIND DESIGN PARAMETERS PER GENERAL STRUCTURAL NOTES.

2. POSITIVE AND NEGATIVE VALUES SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.

3. h = MEAN ROOF HEIGHT.

4. WALL AND ROOF WIND FORCES ARE CALCULATED FOR MEAN ROOF HEIGHT.

5. a = 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER BUT NOT LESS THAN 4% OF THE LEAST HORIZONTAL DIMENSION OR 3'-0".

6. WALL AND PARAPET FORCES SHALL BE APPLIED INWARD AND OUTWARD AS ALTERNATIVE LOAD CASES.

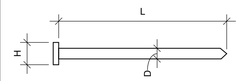
7. BUILDING SKETCHES SHOWN DO NOT REPRESENT THE ACTUAL BUILDING SHAPE, BUT ARE INTENDED TO SHOW ZONES OF PRESSURE VARIATION.

T21 / S132 TYPICAL DETAIL - COMPONENT AND CLADDING WIND FORCES PER ASCE 7-16 (h ≤ 60'-0" AT HIP ROOFS WITH SLOPE > 7° AND ≤ 27°)
SCALE: NTS

FASTENING SCHEDULE U.N.O.	
CONNECTED ELEMENTS	FASTENER SIZE AND PATTERN
JOIST TO ALL SILL OR GIRDER, TOE NAIL	(3) 8d
BRIDGING TO JOIST, TOE NAIL EACH END	(2) 8d
PLATE TO JOIST OR BLOCKING, FACE NAIL	16d AT 16" O.C.
TOP PLATE TO STUD, END NAIL	(2) 16d
STUD TO PLATE	(4) 8d, TOE NAIL OR (2) 16d, END NAIL
DOUBLED STUDS, FACE NAIL	16d AT 24" O.C.
DOUBLED TOP PLATES, FACE NAIL	16d AT 16" O.C.
TOP PLATE, LAPS AND INTERSECTIONS, FACE NAIL	(2) 16d
CONTINUOUS HEADER, TWO PIECES	16d AT 16" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATE, TOE NAIL	(3) 8d
CONTINUOUS HEADER TO STUDS, TOE NAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
RAFTER TO PLATE, TOE NAIL	(3) 8d
BUILT-UP CORNER STUDS	16d AT 24" O.C.

T23 / S132 TYPICAL WOOD FASTENING SCHEDULE
SCALE: NTS

NAIL DIMENSIONS



COMMON

L = LENGTH
D = DIAMETER
H = HEAD DIAMETER

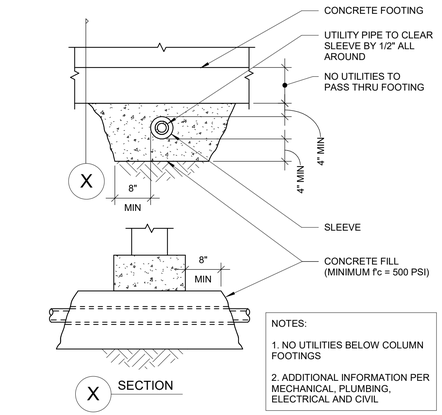
TYPE		PENNYWEIGHT						
		6d	7d	8d	10d	12d	16d	20d
COMMON	L	2"	2 1/4"	2 1/2"	3"	3 1/4"	3 1/2"	4"
	D	0.113"	0.113"	0.131"	0.148"	0.148"	0.162"	0.192"
	H	0.266"	0.266"	0.281"	0.312"	0.312"	0.344"	0.406"

NOTES:

1. WHERE PENNYWEIGHTS ARE SPECIFIED, NAIL DIMENSIONS SHALL MATCH OR EXCEED THIS SCHEDULE UNLESS NOTED OTHERWISE.

2. ALL ALTERNATES OR SUBSTITUTIONS MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

T24 / S132 TYPICAL DETAIL - NAIL DIMENSIONS SCHEDULE
SCALE: NTS

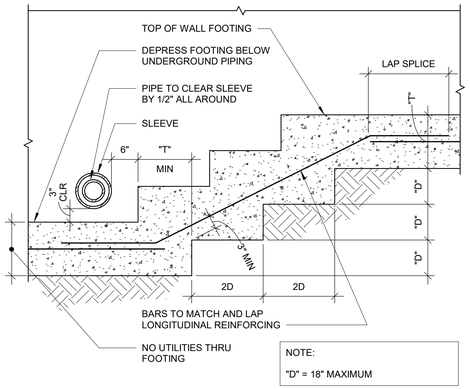


NOTES:

1. NO UTILITIES BELOW COLUMN FOOTINGS

2. ADDITIONAL INFORMATION PER MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL

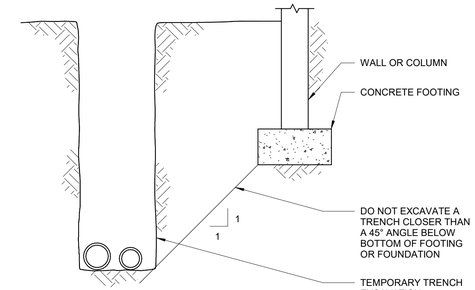
T17 / S132 TYPICAL DETAIL - UTILITY BELOW WALL FOOTING
SCALE: NTS



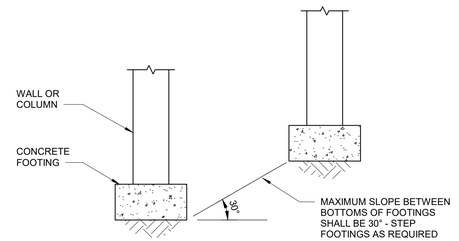
NOTE:

"D" = 18" MAXIMUM

T18 / S132 TYPICAL DETAIL - STEPPED FOOTING
SCALE: NTS

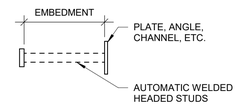


T19 / S132 TYPICAL DETAIL - TRENCH ADJACENT TO FOOTING
SCALE: NTS

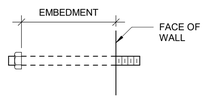


T20 / S132 TYPICAL DETAIL - MAXIMUM SLOPE BETWEEN ADJACENT FOOTINGS
SCALE: NTS

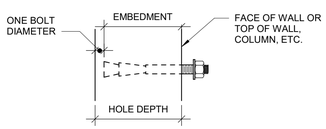
ANCHOR AND EXPANSION ANCHOR SCHEDULE - FOR COLUMN ANCHOR RODS, SEE BASE PLATE SCHEDULE			
ANCHOR TYPE	DIAMETER	VERTICAL EMBEDMENT LENGTH	HORIZONTAL EMBEDMENT LENGTH
ALL	1/2"	6"	5"
ALL	5/8"	6"	5"
ALL	3/4"	7"	5"
ANCHOR RODS / HEADED STUDS	7/8"	8"	6"
ANCHOR ROD	1"	9"	7"
ANCHOR ROD	1 1/4"	11"	9"
ANCHOR ROD	1 1/2"	12"	10"



HEADED STUD ANCHOR



ANCHOR ROD



EXPANSION ANCHOR

HEADED STUD ANCHOR, ANCHOR ROD, AND EXPANSION ANCHOR NOTES:

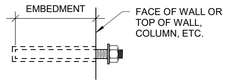
1. PROVIDE ANCHORS AND EXPANSION ANCHORS PER THIS SCHEDULE UNLESS NOTED OTHERWISE IN PLANS OR DETAILS (J-BOLTS ARE NOT ACCEPTABLE).

2. ANCHORS USED IN MASONRY SHALL BE IN GROUTED CELLS - IF GROUTED CELLS ARE NOT ENCOUNTERED, BREAK INTO CELLS AND GROUT SOLID FOR 8" MINIMUM ALL-AROUND EACH ANCHOR LOCATION.

3. APPROVED MANUFACTURERS OF EXPANSION ANCHORS IN CONCRETE AND MASONRY PER GENERAL STRUCTURAL NOTES.

T13 / S132 TYPICAL DETAIL - ANCHOR, ANCHOR ROD, EXPANSION ANCHOR AND ADHESIVE ANCHOR SCHEDULE
SCALE: NTS

ADHESIVE ANCHOR SCHEDULE		
THREADED ANCHOR DIAMETER	VERTICAL AND HORIZONTAL ANCHOR EMBEDMENT LENGTH	
	CONCRETE	MASONRY
1/2"	6"	5"
5/8"	6"	6"
3/4"	7"	7"
7/8"	8"	N/A
1"	9"	N/A
1 1/4"	11"	N/A



ADHESIVE ANCHOR

ADHESIVE ANCHOR NOTES:

1. PROVIDE ADHESIVE ANCHORS PER THIS SCHEDULE UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.

2. ADHESIVE ANCHORS USED IN MASONRY SHALL BE INSTALLED IN GROUTED CELLS - IF GROUTED CELLS ARE NOT ENCOUNTERED, BREAK OUT CELL AND GROUT SOLID FOR 8" ALL-AROUND EACH ANCHOR LOCATION.

3. THREADED ANCHOR AND ADHESIVE SHALL BE SUPPLIED BY THE MANUFACTURER.

4. THREADED ANCHORS SHALL BE INSTALLED WITH STEEL WASHERS.

5. APPROVED MANUFACTURERS OF ADHESIVE ANCHORS IN CONCRETE AND MASONRY PER GENERAL STRUCTURAL NOTES.

Contact Arizona 811 at least two full working days before you begin excavation
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Call 811 or click Arizona811.com

CITY OF PRESCOTT PUBLIC WORKS
DWG. NO. S132
DATE 02 / 23 / 2024
SHEET NO. 42 OF 52

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
STRUCTURAL
TYPICAL DETAILS

CITY OF PRESCOTT Everybody's Hometown
PREPARED BY | CHECKED BY | FOR:

Registered Professional Engineer (Civil) CERTIFICATE NO. 47939 MANUEL J. De La ROSA
EXPIRES 6-30-26

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101 W. GOODWIN ST., SUITE 303, PRESCOTT, AZ 86303
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NO.	BY	DATE	ENGINEER	APPRV	DATE	CITY

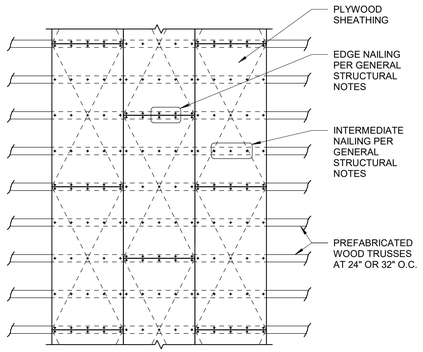
REVISIONS

REVIEW:

CIP #: 2208-002

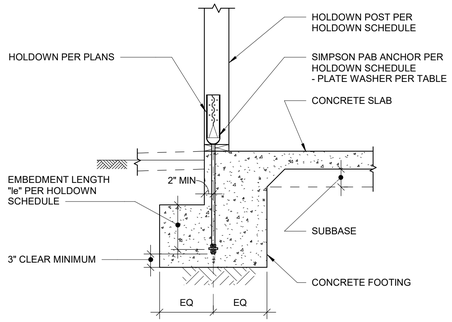
SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH:
Autodesk Docs://2214_PRESCOTT SOLID WASTE FEE BOOTH/Co\Prescott Weigh Station Fee Booth_STRUCT_R23.rvt



T33 S133 TYPICAL DETAIL - ROOF PLYWOOD AT PREFABRICATED WOOD TRUSSES

SCALE: NTS



ANCHOR AT EXTERIOR CONCRETE FOOTING

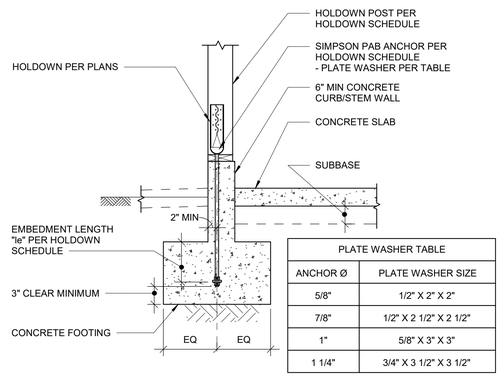
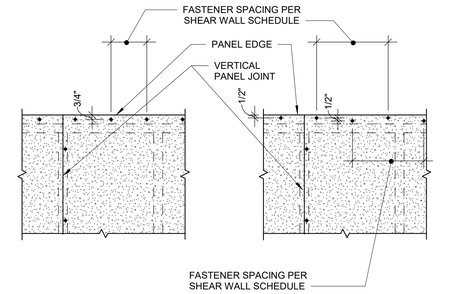


PLATE WASHER TABLE	
ANCHOR Ø	PLATE WASHER SIZE
5/8"	1/2" X 2" X 2"
7/8"	1/2" X 2 1/2" X 2 1/2"
1"	5/8" X 3" X 3"
1 1/4"	3/4" X 3 1/2" X 3 1/2"

ANCHOR AT CONCRETE CURB/STEM WALL

T34 S133 TYPICAL DETAIL - PAB HOLDOWN ANCHOR AT CONCRETE FOOTING

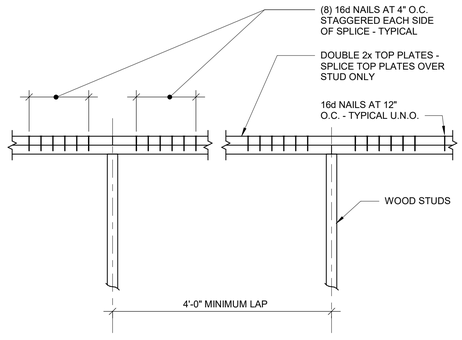
SCALE: NTS



SINGLE ROW OF FASTENERS DOUBLE ROW OF FASTENERS

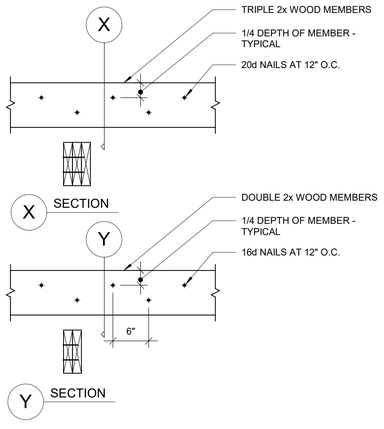
T36 S133 TYPICAL DETAIL - SHEAR WALL PANEL ATTACHMENT AT TOP PLATE

SCALE: NTS



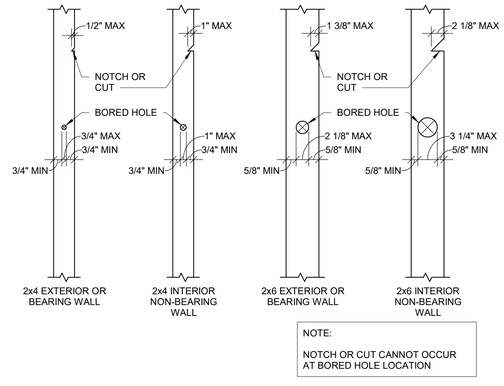
T29 S133 TYPICAL DETAIL - DOUBLE TOP PLATE SPLICE

SCALE: NTS



T30 S133 TYPICAL DETAIL - BUILT-UP WOOD MEMBERS

SCALE: NTS

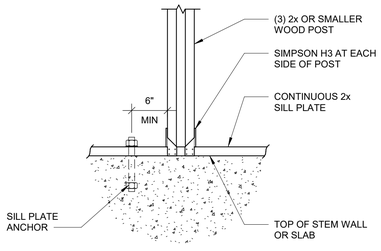


NOTE:

NOTCH OR CUT CANNOT OCCUR AT BORED HOLE LOCATION

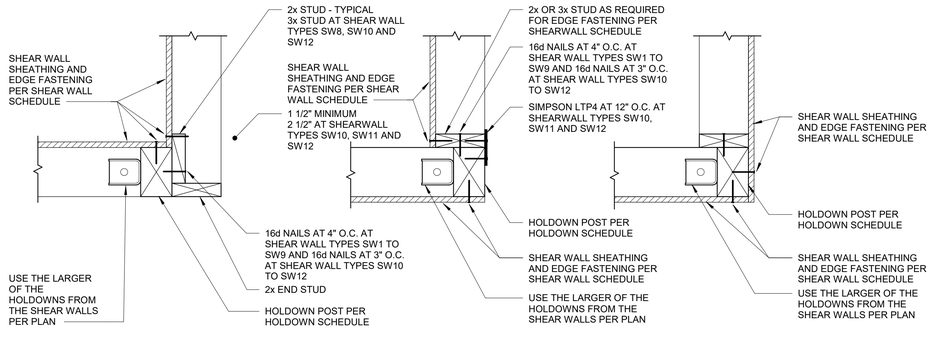
T31 S133 TYPICAL DETAIL - TYPICAL ALLOWABLE HOLES AND NOTCHES IN WOOD STUDS

SCALE: NTS



T32 S133 TYPICAL DETAIL - (3) 2x OR SMALLER POST AT SILL PLATE

SCALE: NTS



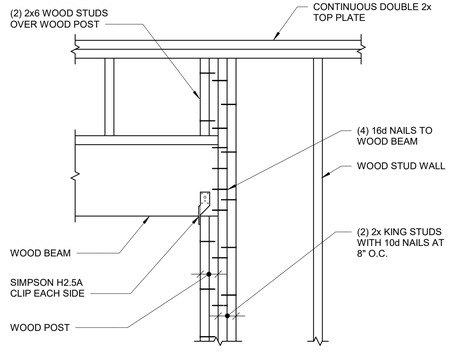
SHEATHING AT INSIDE FACE SHEATHING AT INSIDE/OUTSIDE FACE SHEATHING AT OUTSIDE FACE

NOTE:

THIS DETAIL ONLY APPLIES WHEN SHEATHING IS PLACED ON ONE SIDE OF THE WALL ONLY

T25 S133 TYPICAL DETAIL - PLAN VIEW - SHEARWALLS AND HOLDOWNS AT WALL CORNERS

SCALE: NTS



T27 S133 WOOD BEAM AT WOOD STUD WALL

SCALE: NTS

CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
STRUCTURAL
TYPICAL DETAILS

PWC. NO. S133
DATE 02 / 23 / 2024
SHEET NO. 43 OF 52

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY | CHECKED BY | FOR:

Registered Professional Engineer CERTIFICATE NO. 47939 MANUEL J. De La ROSA
EXPIRES 6-30-26

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FILE NAME&PATH: Autodesk Docs://2214_PRESCOTT SOLID WASTE FEE BOOTH/CoPrescott Weigh Station Fee Booth_STRUCT_R23.rvt

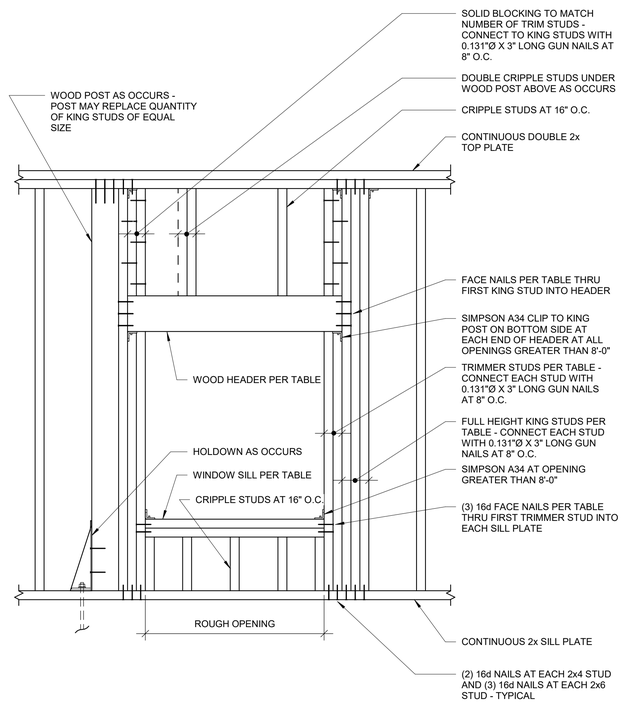
TYPICAL HEADER TABLE U.N.O.

HEADERS AND WINDOW SILLS

OPENING WIDTH	BEARING WALLS MINIMUM HEADER SIZE		SILL PLATES AT WINDOWS		FACE NAILS AT HEADER AND WINDOW SILL
	6" WALL	4" WALL	6" WALL	4" WALL	
0'-0" - 3'-9"	(3) 2x4	(2) 2x4	2x6	2x4	(3) 16d
4'-0" - 5'-0"	(3) 2x6	(2) 2x6	2x6	(2) 2x4	(3) 16d
5'-1" - 6'-0"	(3) 2x6	(2) 2x8	2x6	(2) 2x4	(4) 16d
6'-1" - 7'-0"	(3) 2x6	(2) 2x8	2x6	(2) 2x4	(6) 16d

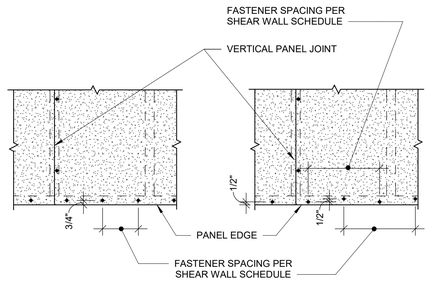
KING AND TRIMMER STUDS

	MAXIMUM OPENING WIDTH	KING STUDS		TRIMMER STUDS	
		6" WALL	4" WALL	6" WALL	4" WALL
AT 1ST FLOOR WALLS	4'-0"	(1) 2x6	(2) 2x4	(1) 2x6	(1) 2x4
	5'-0"	(1) 2x6	(2) 2x4	(1) 2x6	(1) 2x4
	6'-0"	(1) 2x6	(2) 2x4	(1) 2x6	(1) 2x4
	7'-0"	(1) 2x6	(2) 2x4	(1) 2x6	(1) 2x4



T41 / S134 TYPICAL DETAIL - HEADER TABLE

SCALE: NTS



SINGLE ROW OF FASTENERS DOUBLE ROW OF FASTENERS

T37 / S134 TYPICAL DETAIL - SHEAR WALL PANEL ATTACHMENT AT SILL PLATE

SCALE: NTS

WOOD SHEAR WALL (SW) SCHEDULE

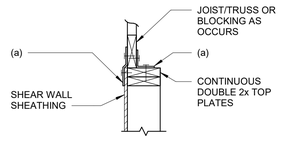
GENERAL (SW) NOTES:

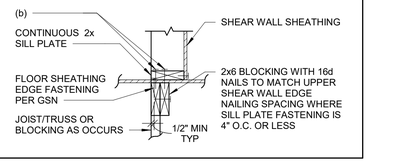
A. SHEAR WALL CONFIGURATION AND CONSTRUCTION INFORMATION PER TYPICAL SHEAR WALL ELEVATIONS.
B. PROVIDE (2) STUDS MINIMUM AT EACH END OF SHEAR WALL U.N.O. END STUDS SHALL RECEIVE EDGE NAILING.
C. ALL BLOCKING IN WALLS SHALL MEET OR EXCEED STUD GRADE.
D. PANEL JOINTS SHALL OCCUR AT CENTERLINE OF STUDS OR BLOCKING.
E. VERIFY WITH ARCHITECT IF ADDITIONAL LAYERS OF GYP BOARD ARE REQUIRED FOR FINISHES.
F. CONTRACTOR'S OPTION - PROVIDE CLIPS AT TOP AND SILL PLATES BY ALTERNATE MANUFACTURER THAT MEET OR EXCEED CAPACITY OF CLIPS INDICATED IN SCHEDULE.
G. HOLDOWN INFORMATION PER HOLDOWN SCHEDULE.
H. PROVIDE NAILING AT CLIP ANGLES PER MANUFACTURER'S RECOMMENDATIONS.
I. TOP AND SILL PLATE NAILING SHALL BE STAGGERED WHERE NAILS ARE SPACED AT 2" O.C.
J. FASTENER SPACING AT INTERIOR SUPPORTS SHALL BE 12" O.C. UNLESS NOTED OTHERWISE.
K. PROVIDE 1/4"X3"X3" PLATE WASHERS AT SILL PLATE ANCHORS
L. AT CONTRACTOR'S OPTION, USE 5/8Ø SIMPSON TITEN HD SCREW ANCHORS WITH MINIMUM 3" EMBEDMENT WITH SAME SPACING. DO NOT DAMAGE REINFORCING WHEN DRILLING.

MARK	WALL PANEL CONSTRUCTION	WALL PANEL FASTENING			TOP AND SILL PLATE FASTENING			ALLOWABLE SHEAR (PLF)	
		EDGE SPACING	MINIMUM FASTENER SIZE	PER NOTES	JOIST/TRUSS OR BLOCKING TO TOP PLATE (a)	SILL PLATE TO WOOD FRAMING (b)	SILL PLATE TO CONCRETE (10)	WIND	SEISMIC
					SIMPSON CLIP	COMMON OR BOX NAILS			
SW1	1 LAYER 5/8" GYP BOARD 1 SIDE OF WALL - UNBLOCKED	7"	6d COOLER OR WALLBOARD NAIL 1 7/8" LONG OR 16 GAGE STAPLE, 1 1/2" LEGS X 1 5/8" LONG	1 TO 5	A34 OR LTP4 AT 36" O.C.	16d AT 16" O.C. OR 12d AT 12" O.C.	5/8"Ø ANCHORS AT 48" O.C.	115	115
SW2	1 LAYER 5/8" GYP BOARD 1 SIDE OF WALL - UNBLOCKED	4"		1 TO 5	A34 OR LTP4 AT 36" O.C.	16d AT 12" O.C. OR 12d AT 10" O.C.	5/8"Ø ANCHORS AT 48" O.C.	145	145
SW3	1 LAYER 5/8" GYP BOARD 1 SIDE OF WALL - BLOCKED	7"		1 TO 6	A34 OR LTP4 AT 36" O.C.	16d AT 12" O.C. OR 12d AT 10" O.C.	5/8"Ø ANCHORS AT 48" O.C.	145	145
SW4	1 LAYER 5/8" GYP BOARD 1 SIDE OF WALL - BLOCKED	4"		1 TO 6	A34 OR LTP4 AT 24" O.C.	16d AT 10" O.C. OR 12d AT 8" O.C.	5/8"Ø ANCHORS AT 48" O.C.	175	175
SW5	2 LAYERS 5/8" GYP BOARD 1 SIDE OF WALL - BLOCKED	9" BASE PLY 7" FACE PLY	BASE PLY - 6d COOLER OR WALLBOARD NAIL 1 7/8" LONG OR 16 GAGE STAPLE, 1 1/2" LEGS X 1 5/8" LONG FACE PLY - 8d COOLER OR WALLBOARD NAIL 2 3/8" LONG OR 15 GAGE STAPLE, 1 1/2" LEGS X 2 1/4" LONG	1 TO 6	A35 OR LTP4 AT 24" O.C.	16d AT 10" O.C. OR 12d AT 6" O.C.	5/8"Ø ANCHORS AT 32" O.C.	250	250
SW6	1 LAYER 3/8" OSB OR PLYWOOD 1 SIDE OF WALL - BLOCKED	6"	8d COMMON OR GALVANIZED BOX NAIL	7 AND 9	A35 OR LTP4 AT 16" O.C.	16d AT 6" O.C. OR 12d AT 4" O.C.	5/8"Ø ANCHORS AT 32" O.C.	365	260
SW7	1 LAYER 3/8" OSB OR PLYWOOD 1 SIDE OF WALL - BLOCKED	4"	8d COMMON OR GALVANIZED BOX NAIL	7 AND 9	A35 OR LTP4 AT 16" O.C.	16d AT 5" O.C. OR 12d AT 3" O.C.	5/8"Ø ANCHORS AT 24" O.C.	447	320
SW8	1 LAYER 3/8" OSB OR PLYWOOD 1 SIDE OF WALL - BLOCKED	4"	10d COMMON OR GALVANIZED BOX NAIL	7 AND 9	A35 OR LTP4 AT 12" O.C.	16d AT 3" O.C. OR 12d AT 2" O.C.	5/8"Ø ANCHORS AT 24" O.C.	645	460
SW9	1 LAYER 3/8" OSB OR PLYWOOD 1 SIDE OF WALL - BLOCKED	3"	8d COMMON OR GALVANIZED BOX NAIL	7 AND 9	LS90 AT 16" O.C.	16d AT 3" O.C. OR 12d AT 2" O.C.	5/8"Ø ANCHORS AT 24" O.C.	685	490

NOTES:

1. FASTENER SPACING AT INTERMEDIATE SUPPORTS SHALL MATCH THE SCHEDULED EDGE SPACING.
2. ALL WALLBOARD NAILS INDICATED IN SCHEDULE SHALL BE 0.120"Ø AND HAVE A MINIMUM 3/8" HEAD.
3. STAPLES SHALL BE GALVANIZED, HAVE 7/16" MINIMUM CROWN WIDTH AND BE INSTALLED PARALLEL TO FRAMING MEMBERS.
4. 6d NAILS MAY BE SUBSTITUTED WITH DRYWALL SCREWS OR NO.6 - 1 1/4" TYPE S OR W SCREWS.
5. PROVIDE EXTERIOR GYP BOARD WHERE SHEAR WALL IS AN EXTERIOR WALL.
6. BLOCK ALL PANEL EDGES WITH WOOD BLOCKING TO MATCH THE STUD WALL SIZE.
7. BLOCK ALL PANEL EDGES WITH WOOD BLOCKING 2" NOMINAL OR WIDER.
8. BLOCK ALL PANEL EDGES WITH WOOD BLOCKING 3" NOMINAL OR WIDER, STAGGER NAILS.
9. PROVIDE 1 1/2" MINIMUM PENETRATION INTO STUD AT 10d NAIL AND 1 3/8" AT 8d NAIL.
10. AT CONTRACTOR'S OPTION, USE 5/8"Ø SIMPSON TITEN HD SCREW ANCHORS WITH MINIMUM 3" EMBEDMENT WITH SAME SPACING. DO NOT DAMAGE REINFORCING WHEN DRILLING.





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CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION STRUCTURAL TYPICAL DETAILS

DWG. NO. S134
DATE 02 / 23 / 2024
SHEET NO. 44 OF 52

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY | CHECKED BY | FOR:

Registered Professional Engineer CERTIFICATE NO. 47939 MANUEL J. De La ROSA Date 2/23/24

EXPIRES 6-30-26

Kimley»Horn

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ENGINEER

CIP #: 2208-002

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GENERAL FOUNDATION NOTES

A STRUCTURAL REFERENCE ELEVATIONS = 0'-0" WHICH IS THE TOP OF FINISHED SLAB ELEVATION FOR LEVEL 1, VERIFY WITH CIVIL DRAWINGS. ALL ELEVATIONS NOTED ON PLANS ARE WITH RESPECT TO REFERENCE DATUM ELEVATION UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE SITE AND LOCAL CONDITIONS.

B THE ARCHITECT FURNISHES ALL ELEVATIONS AND DIMENSIONS. RESOLVE ANY DISCREPANCY WITH ARCHITECT. NOTIFY KIMLEY-HORN THROUGH ARCHITECT OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN BY THIS DRAWING.

C COORDINATE SLAB DEPRESSIONS FOR FLOOR FINISHES AND SLOPES WITH ARCHITECTURAL.

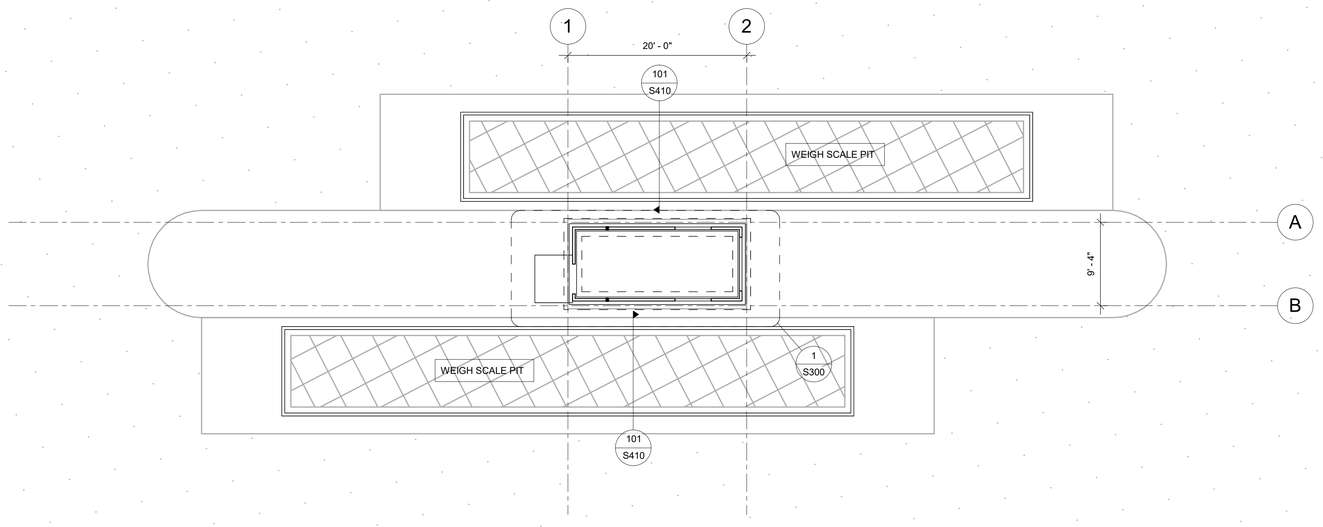
D ALL OPENINGS THROUGH FLOORS, WALLS OR ROOF ARE NOT SHOWN ON PLANS. COORDINATE ALL OPENING LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL. COORDINATE ADDITIONAL FRAMING REQUIREMENTS OR REINFORCING WITH TYPICAL DETAILS.

E REFER TO SHEETS S110 THRU S130 FOR GENERAL STRUCTURAL NOTES, ABBREVIATIONS, LEGENDS, AND SPECIAL INSPECTION REQUIREMENTS

F REFER TO SHEETS S131 THRU S134 FOR TYPICAL DETAILS. TYPICAL DETAILS APPLY TO SITUATIONS OCCURING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. TYPICAL DETAILS ARE NOT NOTED AT EACH LOCATION AT WHICH THEY ARE APPLICABLE.

G REFER TO SHEET S130 FOR FOUNDATION SCHEDULES.

KEYED NOTES



N

1 OVERALL FOUNDATION PLAN

1/8" = 1'-0"

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CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
STRUCTURAL
FOUNDATION PLAN

DWG. NO. S200
DATE 02 / 23 / 2024
SHEET NO. 45 OF 52

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY | CHECKED BY | FOR:

Registered Professional Engineer (Civil) CERTIFICATE NO. 47939 MANUEL J. De La ROSA
EXPIRES 6-30-26

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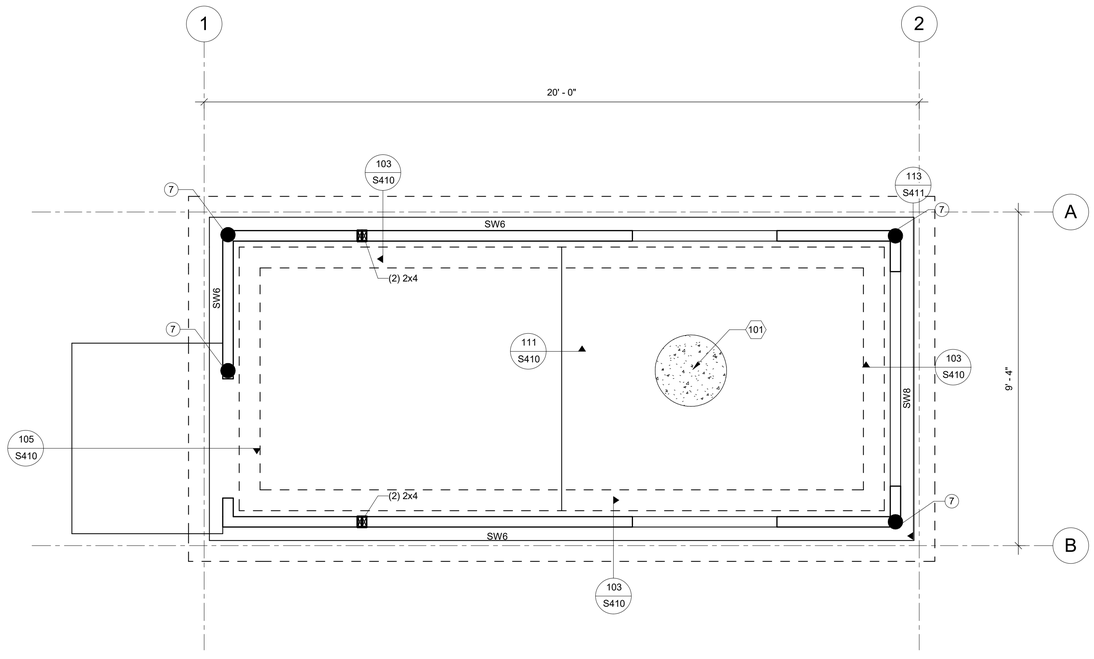
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F REFER TO SHEET S134 FOR HEADER FRAMING SCHEDULES.

KEYED NOTES

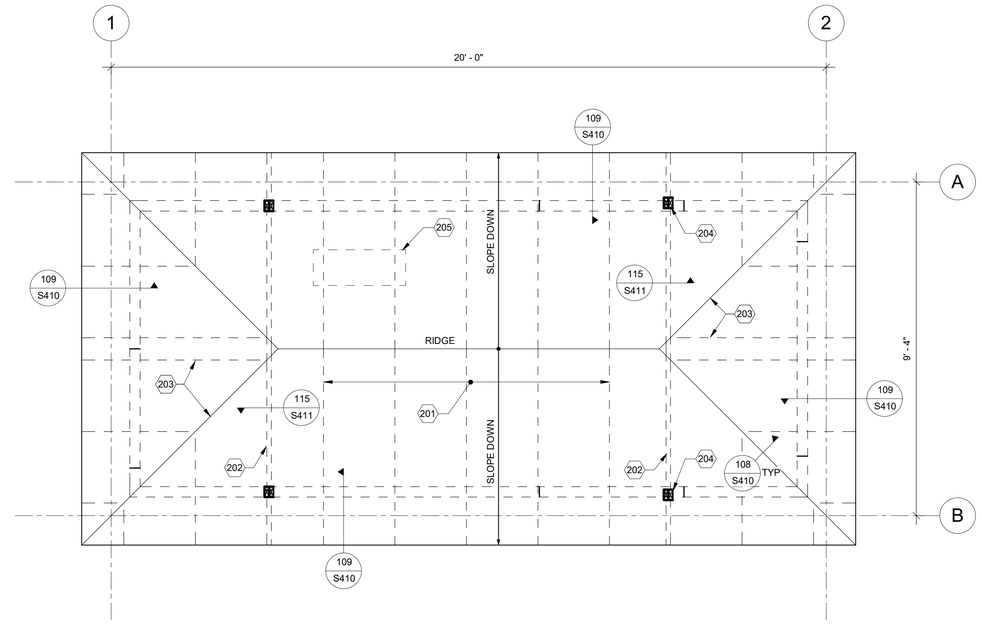
101	4" THICK CONCRETE SLAB WITH #3 AT 12" O.C. EACH WAY, CENTERED IN SLAB, OVER 4" A.B.C., OVER 6" OF ENGINEERED FILL. AGGREGATE BASE MATERIAL, PLACEMENT, AND COMPACTION PER GEOTECHNICAL REPORT.
201	PREFABRICATED WOOD ROOF TRUSS AT 24" O.C.
202	PREFABRICATED WOOD HIP GIRDER TRUSS.
203	PREFABRICATED WOOD HIP AND JACK TRUSS AT 24" O.C.
204	(2) 2X4 CRIPPLE POST
205	OUTLINE OF ROOF TOP UNIT. UNIT WEIGHT NOT TO EXCEED 75 LBS. PROVIDE L2x2x1/4 STEEL SUPPORT ANGLES UNDER UNIT. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. BOLT SUPPORT ANGLES TO 2x6 BLOCKING BETWEEN TRUSS TOP CHORDS. NAIL 2x6 BLOCKING TO TRUSS TOP CHORDS WITH (3) 10d NAILS AT EACH END OF BLOCKING.



N

1 FOUNDATION PLAN

1/2" = 1'-0"

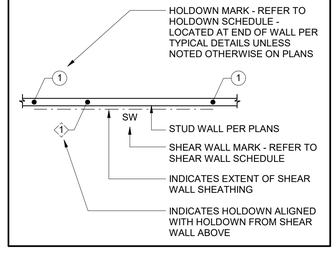


N

2 ROOF FRAMING PLAN

1/2" = 1'-0"

SHEAR WALL/HOLDOWN LEGEND



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CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION STRUCTURAL FRAMING PLAN

DWG. NO. S300

DATE 02 / 23 / 2024

SHEET NO. 46 OF 52

CITY OF PRESCOTT *Everybody's Hometown*

PREPARED BY: CHECKED BY: FOR:

Registered Professional Engineer CERTIFICATE NO. 47939 MANUEL J. De La ROSA

EXPIRES 6-30-26

Kimley»Horn

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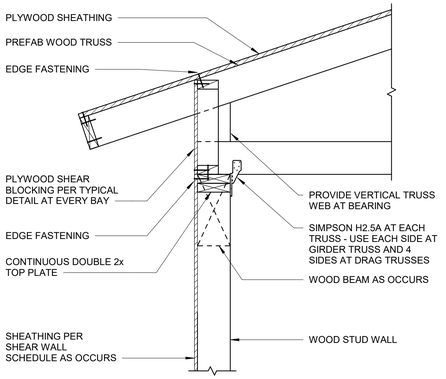
ENGINEER

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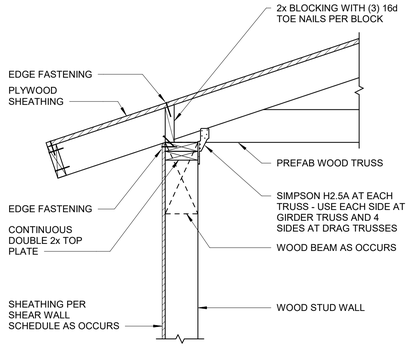
CIP #: 2208-002

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH:
Autodesk Docs//2214_PRESCOTT SOLID WASTE FEE BOOTH/CoPrescott Weigh Station Fee Booth_STRUCT_R23.rvt



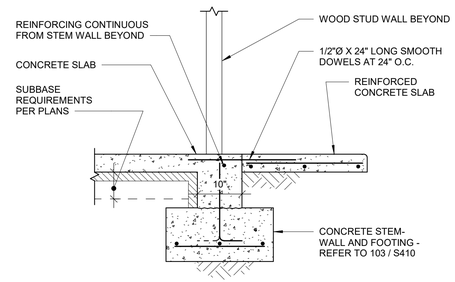
HIGH HEEL



LOW HEEL

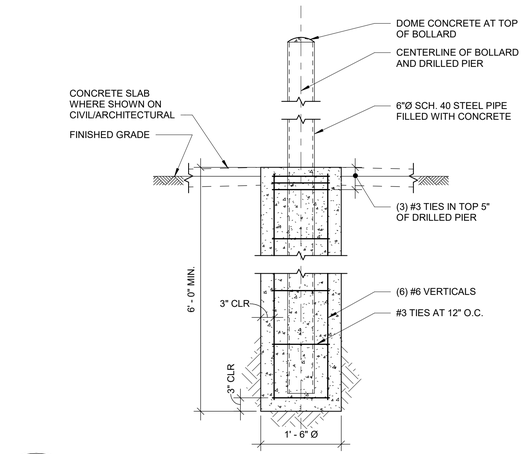
109 / S410 WOOD TRUSS AT EXTERIOR WOOD STUD WALL

SCALE: NTS



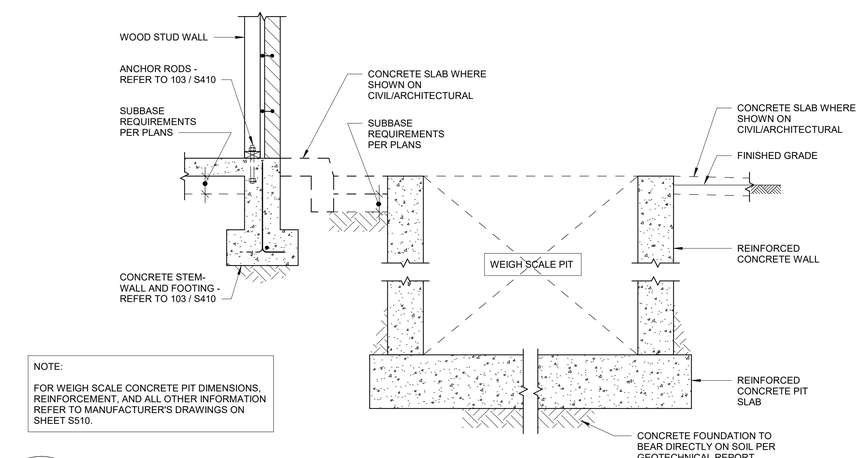
105 / S410 EXTERIOR WOOD STUD WALL FOOTING AT WALL OPENING

SCALE: NTS



106 / S410 TYPICAL PIPE BOLLARD

SCALE: NTS

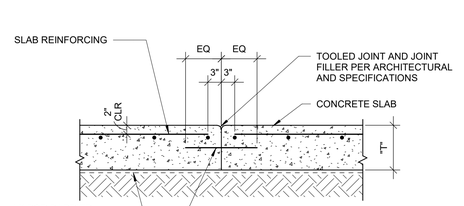


NOTE:

FOR WEIGH SCALE CONCRETE PIT DIMENSIONS, REINFORCEMENT, AND ALL OTHER INFORMATION REFER TO MANUFACTURER'S DRAWINGS ON SHEET S510.

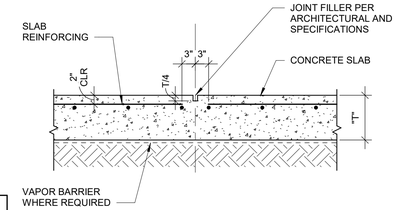
101 / S410 WEIGH SCALE CONCRETE PIT

SCALE: NTS



CONSTRUCTION JOINT DOWEL SCHEDULE			
SLAB THICKNESS "T"	ROUND DOWEL		
	SIZE	LENGTH	SPACING
5" TO 6"	3/4"	14"	12"
7" TO 8"	1"	16"	12"
9" TO 11"	1 1/4"	18"	12"

DOWELED CONSTRUCTION JOINT



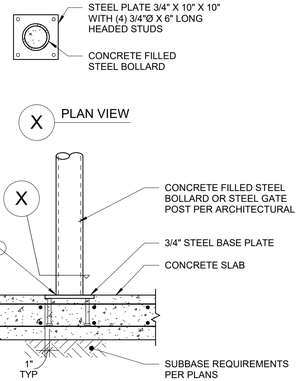
SAWCUT CONTROL JOINT

NOTE:

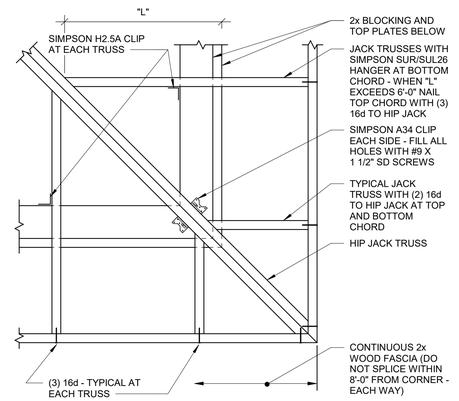
SAWCUT SLAB WITHIN 12 HOURS OF CONCRETE PLACEMENT

111 / S410 TYPICAL CONSTRUCTION JOINT AND CONTROL JOINT IN REINFORCED CONCRETE SLAB

SCALE: NTS

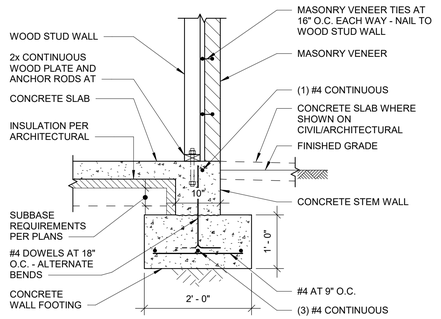


AT CONCRETE SLAB CONDITION:



108 / S410 PLAN VIEW - PREFABRICATED JACK TRUSSES AT HIP JACK TRUSS

SCALE: NTS



103 / S410 EXTERIOR WOOD STUD AND MASONRY VENEER WALL FOOTING

SCALE: NTS

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CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION STRUCTURAL DETAILS

DWG. NO. S410

DATE 02 / 23 / 2024

SHEET NO. 47 OF 52

CITY OF PRESCOTT *Everybody's Hometown*

PREPARED BY | CHECKED BY | FOR:

Registered Professional Engineer CERTIFICATE NO. 47939 MANUEL J. De La ROSA

EXPIRES 6-30-26

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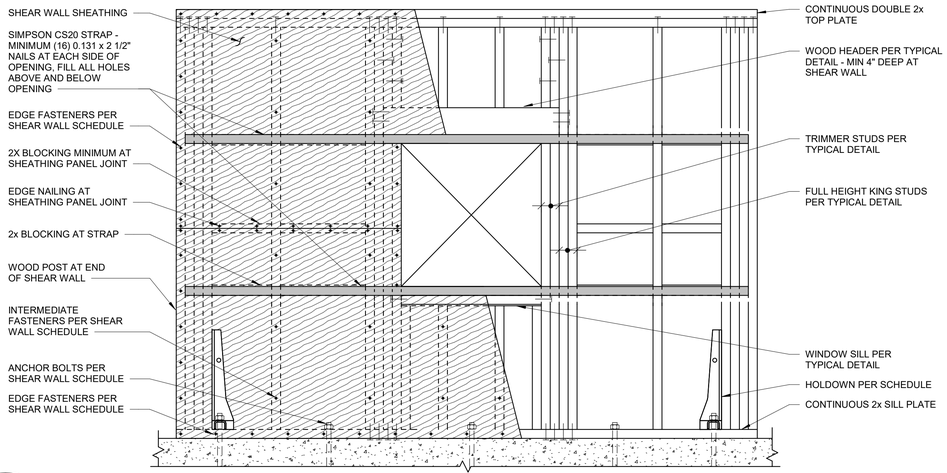
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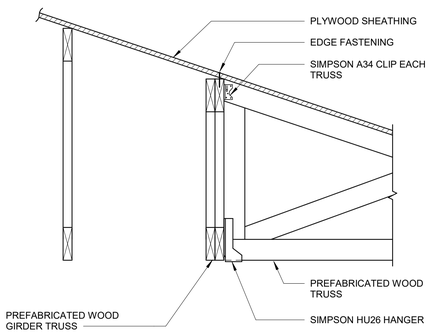
SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH:
Autodesk Docs://22114_PRESCOTT SOLID WASTE FEE BOOTH/CoPrescott Weigh Station Fee Booth_STRUCT_R23.rvt



113 / S411 FORCE TRANSFER AROUND OPENING SHEAR WALL

SCALE: NTS



115 / S411 PREFABRICATED WOOD HIP/JACK TRUSS AT GIRDER TRUSS

SCALE: NTS

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CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION STRUCTURAL DETAILS

DWG. NO. S411

DATE 02 / 23 / 2024

SHEET NO. 48 OF 52

CITY OF PRESCOTT *Everybody's Hometown*

PREPARED BY | CHECKED BY | FOR:

Registered Professional Engineer (Civil) CERTIFICATE NO. 47939 MANUEL J. De La ROSA

EXPIRES 6-30-26

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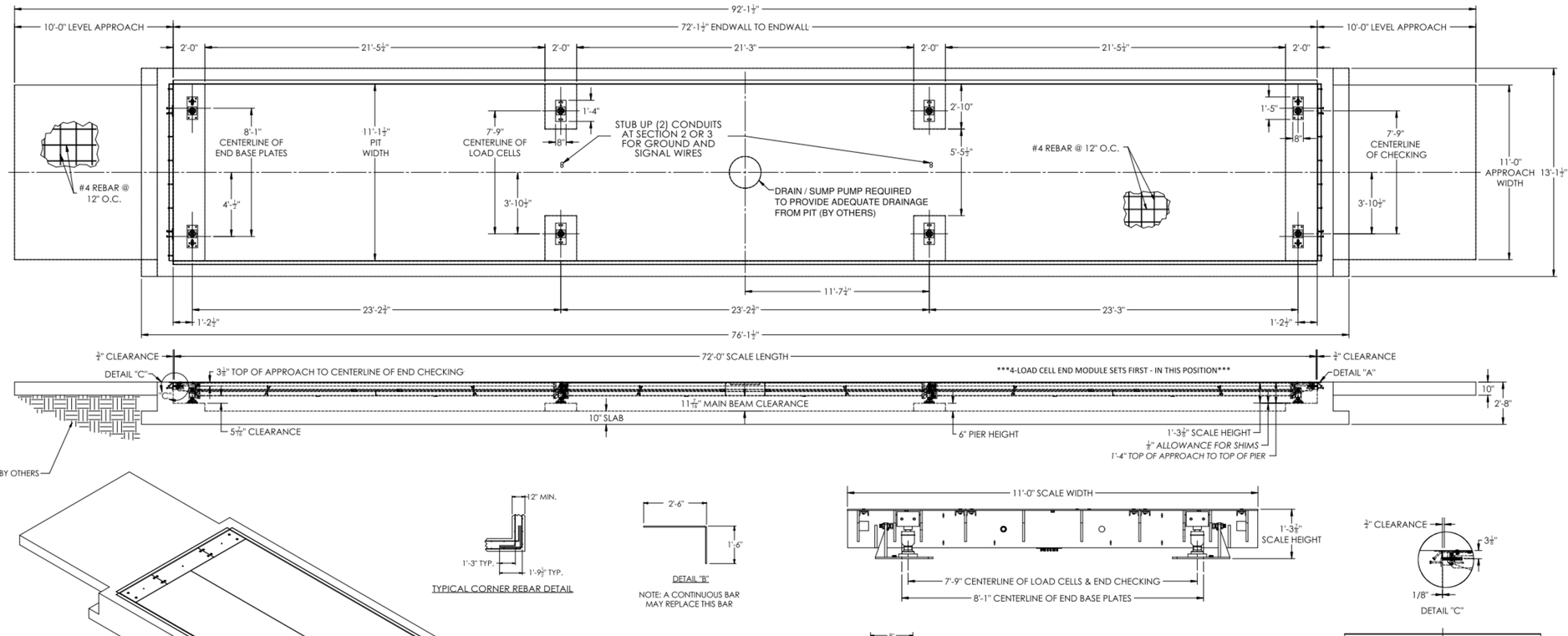
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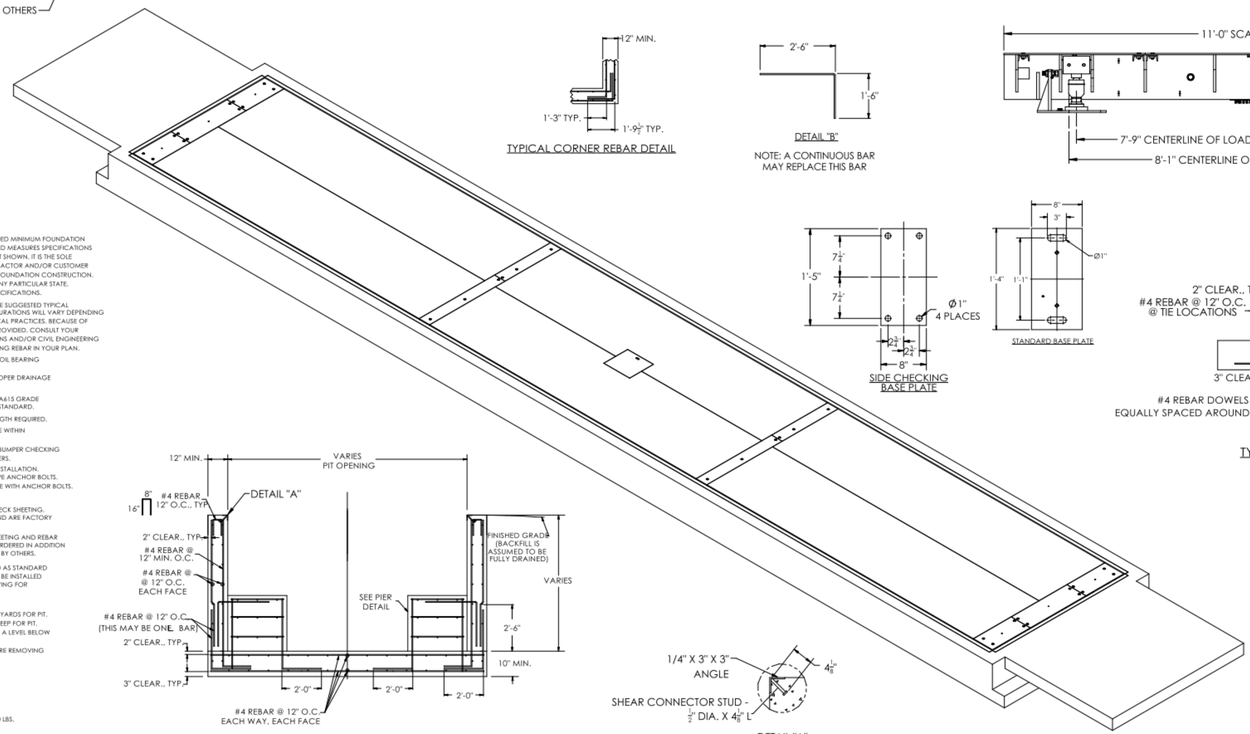
ENGINEER

CIP #: 2208-002

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: Autodesk Docs://2214_PRESCOTT SOLID WASTE FEE BOOTH/CoPrescott Weigh Station Fee Booth_STRUCT_R23.rvt





TYPICAL CORNER REBAR DETAIL

DETAIL "B"

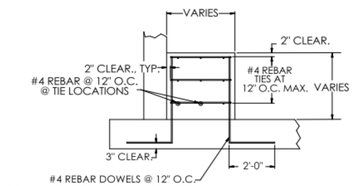
NOTE: A CONTINUOUS BAR MAY REPLACE THIS BAR

DETAIL "C"

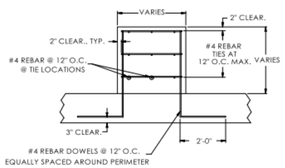
END BUMPER PLATE DETAIL BY OTHERS

STANDARD BASE PLATE

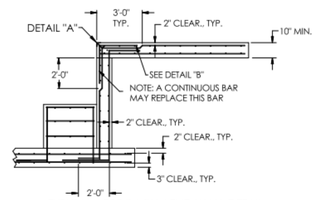
SIDE CHECKING BASE PLATE



TYPICAL END PIER DETAIL



TYPICAL CENTER PIER DETAIL



TYPICAL APPROACH / END WALL DETAIL

TYPICAL END SECTION VIEW

DETAIL "A"

FOUNDATION NOTES:

1. THE FOUNDATION SHOWN IS A RECOMMENDED MINIMUM FOUNDATION BY B-TEK SCALES. YOUR LOCAL WEIGHTS AND MEASURES SPECIFICATIONS AND REQUIREMENTS MAY DIFFER FROM THAT SHOWN. IT IS THE SOLE RESPONSIBILITY OF THE FOUNDATION CONTRACTOR AND/OR CUSTOMER TO DEFINE THOSE REQUIREMENTS PRIOR TO FOUNDATION CONSTRUCTION. B-TEK IS NOT LIABLE FOR COMPLIANCE TO ANY PARTICULAR STATE, COUNTY, CITY, OR LOCAL MUNICIPALITY SPECIFICATIONS.
2. THE FOUNDATION REBAR DETAILS SHOWN ARE SUGGESTED TYPICAL CONFIGURATIONS. ACTUAL REBAR CONFIGURATIONS WILL VARY DEPENDING ON THE FOUNDATION CONTRACTOR'S TYPICAL PRACTICES. BECAUSE OF THIS, NO "STANDARD" REBAR SCHEDULE IS PROVIDED. CONSULT YOUR LOCAL WEIGHTS & MEASURES SPECIFICATIONS AND/OR CIVIL ENGINEERING FIRM FOR PARTICULAR QUESTIONS REGARDING REBAR IN YOUR PLAN.
3. FOUNDATION DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 3000 LB/FT^2.
4. FOUNDATION TO BE INSTALLED TO INSURE PROPER DRAINAGE AWAY FROM SCALE.
5. REINFORCING STEEL TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. #4 (1/2" DIA.) REBAR IS STANDARD.
6. CONCRETE OF 4000 PSI COMPRESSIVE STRENGTH REQUIRED.
7. PIERS MUST BE LEVEL AND IN THE SAME PLANE WITHIN +/- 1/8".
8. EXCAVATION, FORMS, REINFORCING STEEL, BUMPER CHECKING PLATES AND CONCRETE FURNISHED BY OTHERS.
9. ANCHOR BOLTS TO BE DRILLED AT TIME OF INSTALLATION. REQUIRES 3/4" DIA. X 7" LONG REDHEAD TYPE ANCHOR BOLTS. MAKE SURE PIER REBAR DOES NOT INTERFERE WITH ANCHOR BOLTS.
10. CONCRETE DECK SCALES:
    ON "FECD-SL" AND "EFTC" SERIES SCALES, DECK SHEETING, REBAR, AND MUDHOOKS ARE SUPPLIED, AND ARE FACTORY INSTALLED BY B-TEK.
    ON ALL OTHER SERIES OF SCALES, DECK SHEETING AND REBAR ARE NOT SUPPLIED. UNLESS SPECIFICALLY ORDERED IN ADDITION TO THE SCALE, AND ARE INSTALLED ON-SITE BY OTHERS.
11. DECK COPING WITH MUDHOOKS IS SUPPLIED AS STANDARD ON CONCRETE DECK PIT SERIES SCALES, TO BE INSTALLED ON-SITE BY OTHERS. SEE DECK DETAIL DRAWING FOR INSTALLATION SPECIFICS.
12. EXCAVATION
    APPROXIMATE EXCAVATION: 115.75 CUBIC YARDS FOR PIT.
    DIG HOLE APPROXIMATELY 78" X 15' X 2'-6" DEEP FOR PIT.
    DIG HOLES FOR PIER-ONLY FOUNDATION TO A LEVEL BELOW LOCAL FROST LINE CODES
    SAW CUT ALL CONCRETE OR ASPHALT BEFORE REMOVING
13. APPROXIMATE CONCRETE REQUIREMENTS:
    FLOOR SLAB: 31.00 CUBIC YARDS
    END WALLS: 1.25 CUBIC YARDS
    SIDE WALLS: 10.00 CUBIC YARDS
    APPROACH SLABS: 6.75 CUBIC YARDS
    PIERS: 1.25 CUBIC YARDS
14. WEIGHT OF LARGEST BRIDGE MODULE: 10,000 LBS.
15. FOUNDATION TOLERANCES:
    WIDTH: +1/4", -0"
    LENGTH: +3/8", -0"
    HEIGHT: +1/8", -0"

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CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION
SCALE
DETAILS

DWG. NO. S510
DATE 02 / 23 / 2024
SHEET NO. 49 OF 52

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

CITY OF PRESCOTT *Everybody's Hometown*

PREPARED BY | CHECKED BY | FOR:

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ENGINEER

REVIEW:

CIP #: 2208-002

FILE NAME&PATH:
Autodesk Docs://2214_PRESCOTT SOLID WASTE FEE BOOTH/CoPrescott Weigh Station Fee Booth_STRICT_R23.rvt

GENERAL NEW NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.
3. COORDINATE LOCATION OF ROOF MOUNTED HVAC EQUIPMENT AND ROOF PENETRATIONS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
4. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
5. DURING INSTALLATION OF NEW WORK, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. REPAIR DAMAGE CAUSED DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER.
6. PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA WHERE WORK IS BEING PERFORMED.
7. ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY DIVISION 23 UNLESS OTHERWISE NOTED.
8. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
9. INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.
10. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.
11. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
12. LOCATE AND SET THERMOSTATS AND HUMIDISTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL DEVICES WITH TOP OF DEVICE AT MAXIMUM 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 26. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.
13. COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.
14. PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.

MECHANICAL SHEET LIST

SHEET NUMBER	SHEET NAME
M000	MECHANICAL SYMBOLS, ABBREVIATIONS, AND NOTES
M001	MECHANICAL SPECIFICATIONS
M100	MECHANICAL PLANS, DETAILS, AND SCHEDULES

MECHANICAL SYMBOLS & LEGENDS

THIS IS A MASTER LEGEND, NOT ALL ABBREVIATIONS OR SYMBOLS ARE USED ON DRAWINGS.

HVAC SYMBOLS & LEGENDS

ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. REFER TO HVAC SPECIFICATIONS FOR DUCTWRAP AND LINER INFORMATION. FINAL DUCT DIMENSION SHALL ACCOUNT FOR TYPE & THICKNESS OF INSULATION (TYP).

SYMBOL	DESCRIPTION
	ROUND DIFFUSER/REGISTER ANNOTATION SD-1 / 12"Ø / 500 (TYPE) / (NECK SIZE) / (CFM)
	RECTANGULAR DIFFUSER/REGISTER ANNOTATION RG-1 / 22x22" / 500 (TYPE) / (NECK SIZE) / (CFM)
	MANUAL VOLUME/BALANCING DAMPER
	DUCT WITH ACOUSTIC LINING
	SQUARE TO ROUND DUCT TRANSITION
	HIGH EFFICIENCY TAKEOFF (45 DEGREES) RECTANGLE TO ROUND BRANCH FITTING WITH VOLUME DAMPER
	FLEXIBLE DUCT CONNECTOR AT EQUIPMENT
	ELBOW WITH TURNING VANES
	SUPPLY OR OUTSIDE AIR DUCT UP
	SUPPLY OR OUTSIDE AIR DUCT DOWN
	RETURN OR EXHAUST AIR DUCT UP
	RETURN OR EXHAUST AIR DUCT DOWN
	DUCT SMOKE DETECTOR
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
VD	VOLUME/MANUAL DAMPER
MD	MOTORIZED DAMPER
BD	BACKDRAFT DAMPER

CONTROL DEVICES

THERMOSTATS (USER ADJUSTABLE) - TOP OF DEVICE	48" AFF
CONTROL DEVICES - TOP OF DEVICE	48" AFF

INSTALL ALL DEVICES AT ELEVATIONS SHOWN ABOVE UNLESS NOTES OTHERWISE IN DRAWINGS OR SPECIFICATIONS. ELEVATIONS ARE DIMENSIONED FROM AFF OR AFG TO TOP OF DEVICE. INSTALL ALL DEVICES IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS. REFER TO ARCHIECTURAL DRAWINGS FOR LOCATIONS & ELEVATIONS.

SYMBOL	DESCRIPTION
T	THERMOSTAT
H	HUMIDISTAT
TS	TEMPERATURE SENSOR
HS	HUMIDITY SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
SP	STATIC PRESSURE SENSOR
CO	CARBON MONOXIDE SENSOR
CO2	CARBON DIOXIDE SENSOR
FS	FLOW SWITCH
PS	PULL STATION (REFER TO KITCHEN DRAWINGS)

GENERAL ANNOTATIONS

	POINT OF CONNECTION (POC) - NEW ITEMS TO EXISTING ITEMS
	ACCESS PANEL (AP)
RTU X	MECHANICAL EQUIPMENT. (CONTRACTOR FURNISHED & INSTALLED UNLESS NOTED OTHERWISE). REFER TO MECHANICAL SCHEDULES.
	MECHANICAL PLAN KEYNOTE
1 / M0.00	DETAIL REFERENCE CALLOUT. UPPER VALUE = DETAIL NUMBER. LOWER VALUE = SHEET NUMBER
1 / M0.00	SECTION VIEW REFERENCE CALLOUT. UPPER VALUE = DETAIL NUMBER. LOWER VALUE = SHEET NUMBER

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AABC	AMERICAN AIR BALANCE COUNCIL
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
BAS	BUILDING AUTOMATION SYSTEM
BD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER DEVICE
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSE POWER
BI	BINARY INPUT
BO	BINARY OUTPUT
BOD	BOTTOM OF DUCT
BTU/H	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CLG	COOLING
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CU	CONDENSING UNIT
CV	CONTROL VALVE
(D)	DEMOLISHED
dB	DECIBLES
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DI	DIGITAL INPUT
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
FFA	FINISHED FLOOR ABOVE
FFB	FINISHED FLOOR BELOW
FF	FINISHED FLOOR
FPI	FINS PER INCH
FPM	FEET PER MINUTE
GA	GAGE OR GAUGE
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSEPOWER
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
HTG	HEATING
IBC	INTERNATIONAL BUILDING CODE
IMC	INTERNATIONAL MECHANICAL CODE
kW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPS
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
N/A	NOT APPLICABLE
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NC	NOISE CRITERIA
NEBB	NATIONAL ENVIROMENTAL BALANCING BUREAU
NEC	NATIONAL ELECTRIC CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
PROVIDE	FURNISH & INSTALL
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSID	POUNDS PER SQUARE INCH DIFFERENTIAL
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
(R)	EXISTING TO BE RELOCATED
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SD	SMOKE DAMPER
SD	SUPPLY DUCT
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SH	SENSIBLE HEAT CAPACITY
"SP	STATIC PRESSURE (INCHES OF)
SPECS	SPECIFICATIONS
SQFT	SQUARE FEET
SS	STAINLESS STEEL
T	TEMPERATURE
TAB	TEST AND BALANCE WORK AND REPORT
TBD	TO BE DETERMINED
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TH	TOTAL HEAT CAPACITY
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
U/G	UNDERGROUND
UBC	UNIFORM BUILDING CODE
UMC	UNIFORM MECHANICAL CODE
UNO	UNLESS NOTED OTHERWISE
V/PH/HZ	VOLTAGE/PHASE/HERTZ
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VRV	VARIABLE REFRIGERANT VOLUME
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
WPD	WATER PRESSURE DROP
XP	EXPLOSION PROOF

PIPING SYMBOLS & LEGENDS

SYMBOL	DESCRIPTION
	DIRECTION OF FLOW
	SHUTOFF VALVE (SO)
	BALANCING VALVE WITH PRESSURE PORTS (BLV)
	BUTTERFLY VALVE (BFV)
	CHECK VALVE (CHV)
	TRIPLE DUTY VALVE (TDV)
	BACKFLOW PREVENTOR (BP)
	PRESSURE REDUCING VALVE (PRV)
	STRAINER (STR)
	STRAINER WITH 3/4" HOSE END DRAIN VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	REDUCER
	WATER HAMMER ARRESTOR
	UNION
	PRESSURE GAGE WITH GAUGE COCK
	THERMOMETER
	PIPING TEE DOWN
	PIPING TEE UP
	PIPING ELBOW UP
	PIPING ELBOW DOWN
	CAP
	FLEXIBLE COUPLING
	PUMP

PIPING LINETYPES

SYMBOL	DESCRIPTION
——CD——	CONDENSATE DRAIN (CD)
—— G ——	NATURAL GAS (G)
—— RL——	REFRIGERANT LIQUID (RL)
—— RS——	REFRIGERANT SUCTION (RS)
—— CWS ——	CHILLED WATER SUPPLY (CWS)
—— CWR——	CHILLED WATER RETURN (CWR)
—— CS ——	CONDENSER WATER SUPPLY (CS)
—— CR ——	CONDENSER WATER RETURN (CR)
—— HWS ——	HEATING HOT WATER SUPPLY (HWS)
—— HWR ——	HEATING HOT WATER RETURN (HWR)

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CITY OF PRESCOTT PUBLIC WORKS
SOLID WASTE SCALE AND FEE BOOTH RELOCATION

CITY OF PRESCOTT Everybody's Hometown
PREPARED BY CRN | CHECKED BY JDS | FOR: COP

Professional Engineer — 68967 — JEFFREY SMITH — Date Signed 02/23/2024 — ARIZONA, U.S.A.
EXPIRES 06-30-2025

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SOLID WASTE SCALE AND FEE BOOTH RELOCATION

FILE NAME&PATH: K:\PHX_MEP\091345040 - PRESCOTT FEE BOOTH\CADD\PLAN SHEETS\TITLEBLOCKS.DWG

MECHANICAL SPECIFICATIONS:

A. SUBMITTALS

1. ELECTRONIC SUBMITTALS IN ADOBE PDF FORMAT, IN LIEU OF PAPER COPIES, WILL BE ACCEPTED.
2. SUBSTITUTED ITEMS SHALL BE SUBMITTED WITH MANUFACTURER'S DESCRIPTIVE DATA AND MUST SHOW EQUALITY TO ITEM SPECIFIED. INFORMATION ON SUBSTITUTED ITEMS MUST BE COMPLETE, INCLUDING, BUT NOT LIMITED TO: DESIGN, CONSTRUCTION MATERIALS, AND CONSTRUCTION QUALITY. ENGINEER WILL NOT RESEARCH INFORMATION REQUIRED TO COMPARE EQUIPMENT. ENGINEER RESERVES THE RIGHT TO REQUIRE SPECIFIED ITEM.
3. SUBMIT MANUFACTURER'S DESCRIPTIVE DATA WITHIN TEN (10) WORKING DAYS AFTER AWARD OF THE CONTRACT. MATERIALS AND FIXTURES SHALL NOT BE ORDERED PRIOR TO SUBMITTAL APPROVAL. ALLOW TEN (10) WORKING DAYS AFTER RECEIPT OF SUBMITTALS IN THE ENGINEER'S OFFICE BEFORE REVIEWED SUBMITTALS WILL BE RETURNED.
4. SHOP DRAWINGS TO BE SUBMITTED TO AND REVIEWED BY THE ENGINEER AND ARCHITECT PRIOR TO ORDERING, PURCHASING, OR FABRICATION ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE:
   a. ALL EQUIPMENT SCHEDULED OR SPECIFIED ON THE DRAWINGS. EQUIPMENT DIMENSIONS TO BE BASED ON SUBMITTED EQUIPMENT.
   b. DUCTWORK DRAWING TO 1/4" SCALE OR THE SCALE SHOWN ON THE DRAWINGS, INCLUDING DUCT ACCESSORIES.
   c. REFRIGERANT PIPING AND CONTROL WIRING SCHEMATICS CERTIFIED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER. FAILURE TO SUBMIT REFRIGERANT PIPING DRAWINGS SHALL BE CAUSE FOR REJECTION OF THE ENTIRE SUBMITTAL.

B. WORKMANSHIP

1. ALL WORK TO BE PERFORMED BY QUALIFIED PERSONNEL NORMALLY ENGAGED IN THE RESPECTIVE LINE OF WORK.
2. PERFORM ALL WORK IN A MANNER NOT TO DISTURB THE NORMAL OPERATION OF THE BUILDING.
3. COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE.
4. COORDINATE ALL WORK WITH THE OTHER TRADES.
5. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.

C. CUTTING, PATCHING, & PAINTING

1. ALL CUTTING AND PATCHING TO BE PERFORMED BY THE GENERAL CONTRACTOR.
2. CUTTING OF ALL OPENINGS SHALL BE COORDINATED WITH THE OWNER'S ENGINEERING REPRESENTATIVE.
3. WATER WILL NOT BE USED FOR CONCRETE CUTTING WITHOUT THE DIRECT SUPERVISION OF THE OWNER'S ENGINEERING REPRESENTATIVE.

D. PRODUCT HANDLING

1. USE ALL MEANS NECESSARY TO PROTECT ALL MATERIALS AND EQUIPMENT BEFORE, DURING, AND AFTER INSTALLATION AND TO PROTECT THE MATERIALS AND WORK OF THE OTHER TRADES.
2. IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

E. EQUIPMENT

1. EQUIPMENT SHALL BE AS SPECIFIED IN THE EQUIPMENT SCHEDULE OR AN APPROVED EQUAL IF NOTED.
2. INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
3. GENERAL CONTRACTOR SHALL PROVIDE ALL CURBED OPENINGS IN ROOF FOR ALL ROOF MOUNTED EQUIPMENT.
4. ALL UNITS ON ROOF SHALL BE SET ON LEVEL CURBS OR SUPPORTS AT ROOF.
5. SECURELY FASTEN ALL EQUIPMENT TO PREVENT MOVEMENT DUE TO WIND OR SEISMIC FORCES.
6. PROVIDE 10'-0" MINIMUM CLEARANCE BETWEEN OUTSIDE AIR INTAKE AND ANY EXHAUST AIR OUTLETS OR PLUMBING VENTS.

F. PIPING

1. EQUIPMENT DRAIN PIPING TO BE TYPE 'M' HARD DRAWN COPPER WITH WROT COPPER FITTINGS. USE 95/5 SOLDER. SLOPE PIPING 1/8" PER FOOT TOWARDS DRAIN.
2. PROVIDE SPLIT RING HANGERS AT 6'-0" CENTERS AND AT ALL CHANGES IN DIRECTION.
3. ISOLATE ALL DISSIMILAR METALS WITH DIELECTRIC UNIONS OR APPROVED METHOD.
4. ISOLATE ALL COPPER PIPING FROM DISSIMILAR SUPPORTS.
5. REFRIGERANT PIPING SHALL BE TYPE L OR REFRIGERATION SERVICE COPPER TUBING WITH BRAZED JOINTS. PIPING TO BE SEALED AT BOTH ENDS UNTIL INSTALLED ON SITE.
6. CONDENSATE FROM ALL AIR CONDITIONING EQUIPMENT IS TO BE TRAPPED AND ROUTED TO THE NEAREST FLOOR DRAIN OR SERVICE SINK UNLESS OTHERWISE SHOWN. CONDENSATE PIPING IS TO BE SCHEDULE 40 PVC (EXCEPT INSULATED COPPER IN HVAC PLENUMS). CONDENSATE TO BE PUMPED AS REQUIRED. PVC CONDENSATE PIPING EXPOSED TO WEATHER SHALL BE UV PROTECTED PER MANUFACTURER'S RECOMMENDATIONS.
7. ALL PIPING ABOVE GRADE IS TO BE SUPPORTED BY THE BUILDING STRUCTURE AND IS NOT TO REST ON CEILING TILES OR CEILING STRUCTURE. PIPING HUNG FROM JOISTS IS TO BE HUNG FROM THE TOP CHORDS OF THE JOISTS.
8. WHERE MAXIMUM OPERATING PRESSURE IS GREATER THAN 150 PSIG IN ANY SYSTEM, FURNISH AND INSTALL PRODUCTS, PIPING, VALVES, FITTINGS, AND ACCESSORIES WITH PRESSURE CLASSIFICATIONS THAT ARE SUITABLE FOR SERVICE.

G. OTHER MATERIAL

1. ALL OTHER MATERIAL, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE JOB, SHALL BE NEW AND FIRST QUALITY, FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

H. TESTING AND BALANCING

1. TEST & BALANCE TO BE CONDUCTED BY A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC), AND THEY SHALL SUBMIT FINAL SYSTEM PERFORMANCE REPORT TO THE ENGINEER FOR APPROVAL AND BEFORE THE FINAL INSPECTION. TAB REPORT SHALL INCLUDE A 'REPORT SUMMARY/REMARKS' SECTION IN ACCORDANCE WITH THE PROCEDURAL STANDARD THAT PROVIDES BOTH SYSTEM SET UP AND A SUMMARY OF DEFICIENCIES AS DEFINED BY THE PROCEDURAL STANDARD.
2. AFTER COMPLETION OF THE INSTALLATION WORK, TEST AND REGULATE ALL COMPONENTS OF THE NEW SYSTEMS TO THE SATISFACTION OF THE OWNER'S ENGINEERING REPRESENTATIVE.
3. AIR SYSTEM: ALL COMPONENTS SHALL BE TESTED AND ADJUSTED TO -0 TO +10%. REPORT SHALL INCLUDE SCHEDULED (NAMEPLATE) AND TESTED DATA. PROVIDE FAN/MOTOR RPM, AIR PRESSURE DROP FOR INDIVIDUAL COMPONENTS, TSP, ESP, CFM, VOLTAGE, AMPS, HP, AND SHEAVE SIZES (AS APPLICABLE) FOR ALL EQUIPMENT, AIR OUTLETS, AND AIR INLETS.

I. IDENTIFICATION

1. PROVIDE MANUFACTURER'S STANDARD PRE-PRINTED, SEMI-RIGID SNAP-ON OR PERMANENT ADHESIVE, PRESSURE-SENSITIVE VINYL PIPE MARKERS. COLOR CODE PIPE MARKERS TO COMPLY WITH ANSI A13.1.
2. INSTALL PIPE MARKERS ON EACH HVAC PIPING SYSTEM AND INCLUDE ARROWS TO SHOW NORMAL DIRECTION OF FLOW.
3. LOCATE PIPE MARKERS AND COLOR BANDS WHEREVER PIPING IS EXPOSED TO VIEW IN OCCUPIED SPACES, MACHINE ROOMS, ACCESSIBLE MAINTENANCE SPACES (SHAFTS, TUNNELS, PLENUMS) AND EXTERIOR NON-CONCEALED LOCATIONS.
4. PROVIDE PLASTIC LAMINATE OR BRASS VALVE TAG ON EVERY VALVE, COCK AND CONTROL DEVICE IN EACH HVAC PIPING SYSTEM, EXCLUDE CHECK VALVES, VALVES WITHIN FACTORY-FABRICATED EQUIPMENT UNITS, AND SHUT-OFF VALVES AT HVAC TERMINAL DEVICES AND SIMILAR ROUGH-IN CONNECTIONS OF END-USE FIXTURES AND UNITS.
5. PROVIDE MANUFACTURER'S STANDARD LAMINATED PLASTIC, COLOR CODED EQUIPMENT MARKERS. CONFORM TO THE FOLLOWING COLOR CODE: GREEN FOR COOLING; YELLOW FOR HEATING; YELLOW/GREEN FOR COMBINATION COOLING AND HEATING; BROWN FOR ENERGY RECLAMATION; BLUE FOR OTHER EQUIPMENT TYPES. CONFORM TO ANSI A13.1 FOR HAZARDOUS EQUIPMENT.
6. PROVIDE STENCILED SIGNS FOR EQUIPMENT IDENTIFICATION AT CONTRACTOR'S OPTION OR WHERE DISTANCE OF REQUIRED IDENTIFICATION REQUIRES LETTERING LARGER THAN 1 INCH HEIGHT. STENCIL PAINT SHALL BE EXTERIOR TYPE, OIL-BASED, ALKYD ENAMEL, MINIMUM 1-1/4 INCH HEIGHT OR GREATER AS REQUIRED FOR LONG DISTANCE IDENTIFICATION, WHITE OR BLACK COLOR FOR BEST CONTRAST.

J. RELATED WORK

1. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL POWER WIRING AND EQUIPMENT DISCONNECTS, UNLESS INCLUDED WITH EQUIPMENT, TO MAKE SYSTEM OPERATIONAL.

K. HVAC COMPLIANCE NOTES

1. HEATING AND COOLING TO EACH ZONE IS CONTROLLED BY THERMOSTAT CONTROL. MINIMUM ONE HUMIDITY CONTROL DEVICE PER INSTALLED HUMIDIFICATION/DEHUMIDIFICATION SYSTEM.
2. ALL HVAC SYSTEMS TO INCLUDE OPTIMUM START CONTROLS.
3. INSULATE ALL PIPING EXPOSED TO WEATHER. INSULATION TO PROTECT FROM DAMAGE DUE TO SUN, MOISTURE, WIND, ETC.
4. THERMOSTATIC CONTROLS TO HAVE A 5 DEGREE DEADBAND AND TEMPERATURE CONTROLS TO HAVE SETPOINT OVERLAP RESTRICTIONS.
5. EQUIP EACH ZONE WITH SETBACK CONTROLS USING PROGRAMMABLE CONTROL SYSTEM.
6. AUTOMATIC CONTROLS; SETBACK TO 55 F (HEAT) AND 85 F (COOL), 7-DAY CLOCK, 2-HOUR OCCUPANT OVERRIDE, 10-HOUR BACKUP.

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CITY OF PRESCOTT PUBLIC WORKS

SOLID WASTE SCALE AND FEE BOOTH RELOCATION

CITY OF PRESCOTT Everybody's Hometown

PREPARED BY CRN | CHECKED BY JDS | FOR: COP

Registered Professional Engineer | 68967 | JEFFREY SMITH | Date Signed 02/23/2024 | ARIZONA, U.S.A.

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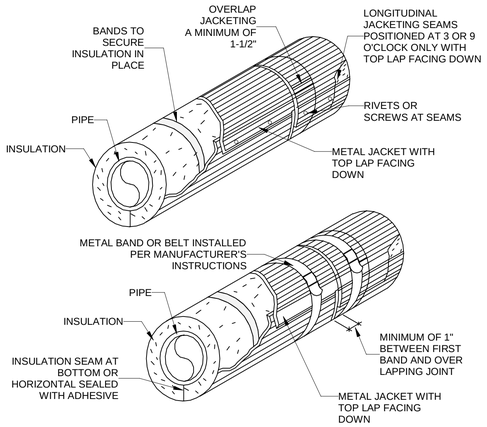
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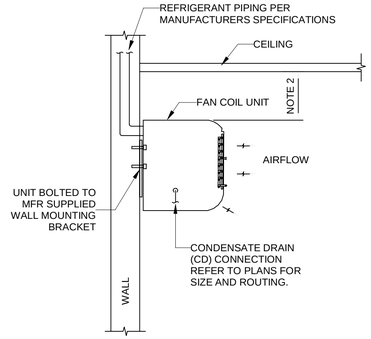
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4 EXTERIOR PIPING WITH METAL JACKETING OVER INSULATION DETAIL

N.T.S

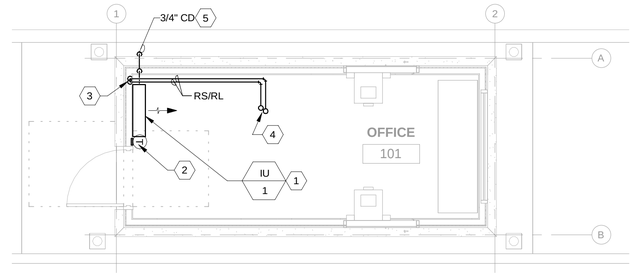


NOTES:

1. ARRANGEMENT SHOWN IS SCHEMATIC, ADJUST TO SUIT FIELD CONDITIONS AND MEET LOCAL CODE REQUIREMENTS.
2. PROVIDE MINIMUM 6" OF CLEARANCE AT THE TOP OF THE UNIT.
3. ATTACH FAN COIL UNIT TO MANUFACTURER'S PROVIDED INSTALLATION PLATE. MOUNT INSTALLATION PLATE TO WALL PER MANUFACTURER'S RECOMMENDATIONS.

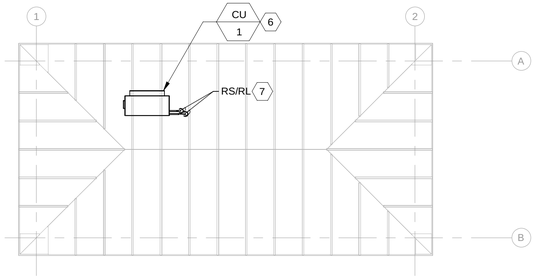
3 FCU/VRF WALL-MOUNTED UNIT DETAIL

N.T.S



1 MECHANICAL FLOOR PLAN

1/4" = 1'-0"



2 MECHANICAL ROOF PLAN

1/4" = 1'-0"

KEYNOTES

1. PROVIDE WALL-MOUNTED INDOOR UNIT. INSTALLER PER MANUFACTURER'S INSTRUCTIONS. REFER TO SPLIT SYSTEM SCHEDULE.
2. PROVIDE AUTO-CHANGEOVER PROGRAMMABLE THERMOSTAT.
3. REFRIGERANT SUPPLY/RETURN DOWN IN WALL TO INDOOR UNIT.
4. REFRIGERANT SUPPLY/RETURN UP THRU ROOF.
5. CONDENSATE DRAIN FROM INDOOR UINIT ROUTED DOWN IN WALL. TERMINATE AT GRADE WITH MINIMUM 2" AIRGAP.
6. PROVIDE HEAT PUMP CONDENSER UNIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE ROOF STAND OR CURB TO MATCH ROOF CONSTRUCTION TYPE. REFER TO SCHEDULE.
7. REFRIGERANT SUPPLY/RETURN DOWN THRU ROOF. SEAL PENETRATION WEATHER-TIGHT, REFER TO ARCHITECTURAL FOR PENETRATION DETAILS. PROVIDE METAL JACKET OVER INSULATED REFRIGERANT LINES EXPOSED TO SUN LIGHT.

SPLIT SYSTEM - INDOOR FAN COIL UNIT

NOTES:
1. CONTRACTOR SHALL VERIFY WITH EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH FOR EVAPORATOR SECTION AND CONDENSING SECTION.
3. PROVIDE WITH WALL MOUNTED THERMOSTAT BY UNIT MANUFACTURER.
4. INDOOR UNIT (EVAPORATOR) SHALL BE POWERED FROM OUTDOOR UNIT (CONDENSER). PROVIDE SINGLE POINT POWER CONNECTION AT CONDENSING UNIT.

			SUPPLY FAN			COOLING COIL			HEATING COIL	ELECTRICAL							
				DISCONNECT													
MARK	UNIT TYPE	LOCATION	AIRFLOW (CFM)	BY	TYPE	TOTAL CAP (MBH)	EAT DB (°F)	EAT WB (°F)	TOTAL CAP (MBH)	VOLTAGE	PHASE	HZ	ASSOCIATED UNIT	WEIGHT	MANUFACTURER	MODEL	NOTES
IU-1	HEAT PUMP	WALL-MOUNT	775	EC	NON-FUSED	18.4	76.0	63.0	14.2	208 V	1	60 Hz	CU-1	50 lb	MITSUBISHI	TPKA0A024	1 THRU 4

SPLIT SYSTEM - OUTDOOR CONDENSING UNIT SCHEDULE

NOTES:
1. PROVIDE LOW AMBIENT CONTROL TO 0°F.
2. EQUIPMENT SIZED FOR 95°F (COOLING) AND 18°F (HEATING) AMBIENT TEMPERATURES.
3. COORDINATE WITH THE MANUFACTURER THE HORIZONTAL AND VERTICAL REFRIGERANT PIPE ROUTING TO DETERMINE PIPE SIZES FOR THE REFRIGERANT PIPING. MANUFACTURER SHALL PROVIDE DETAILED REFRIGERANT PIPING DIAGRAMS INCLUDING DIMENSIONAL DATA FOR ALL REFRIGERANT PIPING DEVICES. THE MANUFACTURER SHALL SIZE AND LOCATETHE ASSOCIATED REFRIGERANT TRAPS BASED ON THE ACTUAL ROUTING AND PROVIDE OTHER APPURTENANCES TO PROVIDE A FULLY FUNCTIONAL AND OPERATIONAL SYSTEM. COORDINATE WITH THE MANUFACTURER LOCATIONS FOR ALL REFRIGERANT PIPING DEVICES TO MAINTAIN SERVICEABILITY AND ACCESSIBILITY.
4. PROVIDE PRE-ENGINEERED ROOF EQUIPMENT SUPPORTS WITH MINIMUM HEIGHT REQUIRED TO MAINTAIN BOTTOM OF EQUIPMENT A MINIMUM OF 8 INCHES ABOVE FINISHED ROOF SURFACE. COORDINATE WITH ROOF SLOPE AND CONSTRUCTION TYPE.
5. DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
6. STARTERS FOR ALL MOTORS SHALL BE PROVIDED INTEGRAL WITH UNIT.
7. COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
8. PROVIDE CONDENSER COIL HAIL GUARDS.
9. PROVIDE HARD START KIT.
10. SELECT EQUIPMENT FOR ELEVATION OF 5,042 FEET ABOVE SEA LEVEL.

		COOLING					HEATING		ELECTRICAL							ASSOCIATED				
			SUMMER AMBIENT					WINTER						DISCONNECT						
MARK	LOCATION	TOTAL CAP (MBH)	DB (°F)	WB (°F)	SEER	REFR. TYPE	TOTAL CAP (MBH)	AMBIENT DB (°F)	VOLTAGE	PHASE	HZ	MCA	MOCP	BY	TYPE	UNIT	WEIGHT	MANUFACTURER	MODEL	NOTES
CU-1	ROOF MOUNTED	18.4	94.7	60.3	21.4	R-410A	14.2	18.2	208 V	1	60 Hz	20 A	25 A	EC	NON-FUSED	IU-1	160 lb	MITSUBISHI	TRUZA024	1 THRU 10

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CITY OF PRESCOTT PUBLIC WORKS
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Registered Professional Engineer
68967
JEFFREY SMITH
Date Signed
ARIZONA, U.S.A.
EXPIRES 06-30-2025

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