

CITY OF GOODYEAR GENERAL NOTES FOR CONSTRUCTION:

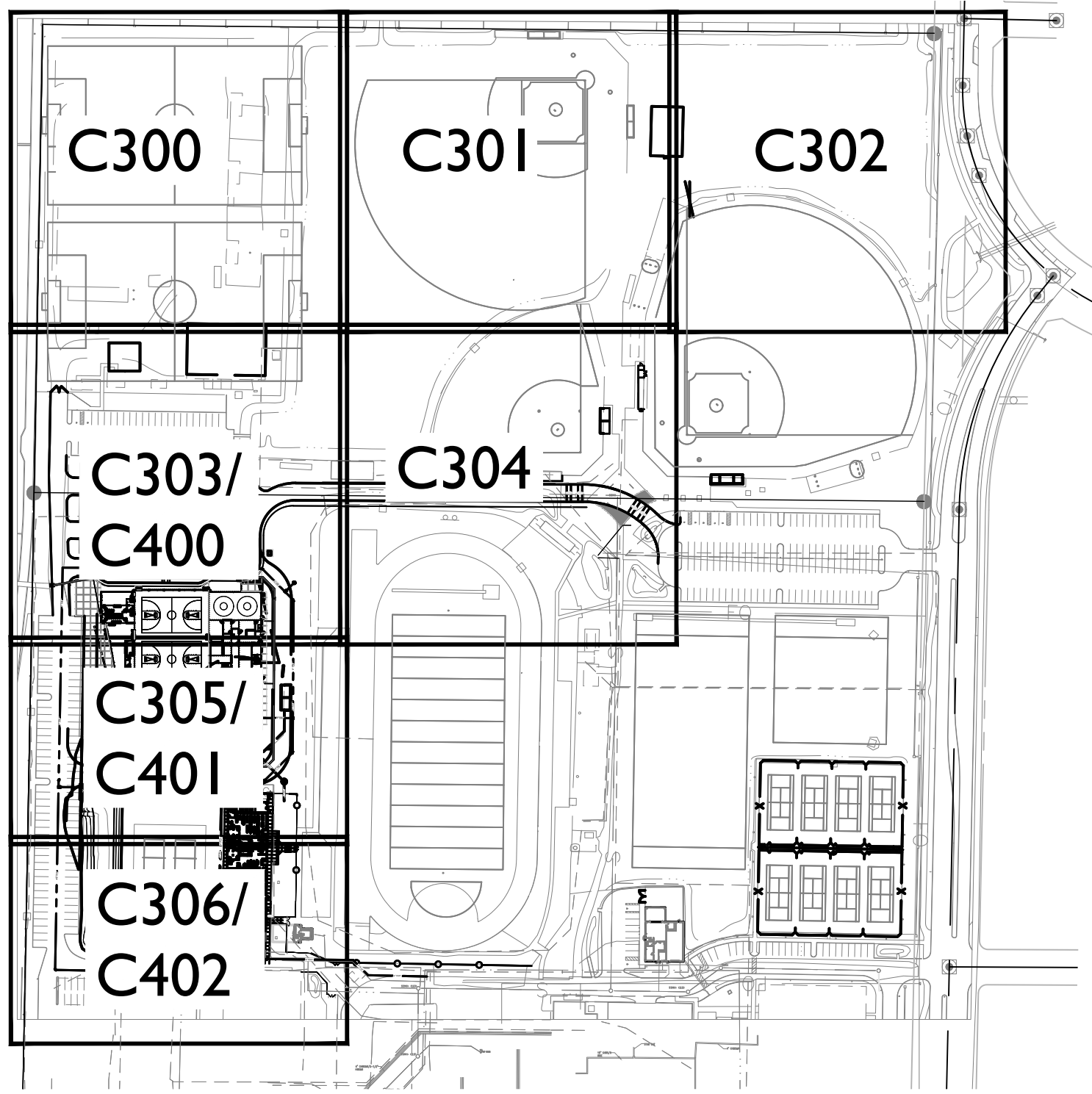
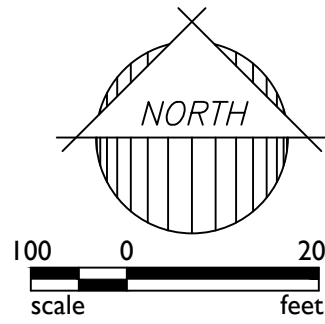
- A. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- B. ALL CONSTRUCTION SHALL CONFORM TO THE CITY EDS&PM, CITY STANDARD DETAILS, AND CURRENT MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION.
- C. THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. HOWEVER, SUCH REVIEW SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN PLANS FOUND TO BE IN VIOLATION OF ANY LAW OR ORDINANCE.
- D. THE CITY DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.
- E. THE CITY APPROVAL IS FOR GENERAL LAYOUT IN THE RIGHT-OF-WAY ONLY. THIS APPROVAL IS VALID FOR A PERIOD OF ONE YEAR. CONSTRUCTION PERMITS SHALL BE OBTAINED DURING THIS PERIOD OR THE PLANS SHALL BE RESUBMITTED FOR REVIEW AND APPROVAL.
- F. AN APPROVED SET OF PLANS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
- G. THE CITY CONSTRUCTION INSPECTOR SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK AND INSPECTIONS (623-882-7979). CONSTRUCTION WORK CONCEALED WITHOUT INSPECTION BY THE CITY CONSTRUCTION INSPECTOR SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S EXPENSE.
- H. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY ENGINEER, OR DESIGNEE, AND ANY WORK/MATERIAL NOT IN CONFORMANCE WITH CITY ENGINEERING STANDARDS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- I. RIGHT-OF-WAY IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL "AS-BUILT" PLANS HAVE BEEN SUBMITTED AND APPROVED BY THE CITY. (SEE AS-BUILT REQUIREMENTS)
- J. THE DEVELOPER IS RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY PRIOR TO STARTING NEW CONSTRUCTION.
- K. THE DEVELOPER IS RESPONSIBLE FOR ARRANGING THE RELOCATION AND ASSOCIATED COSTS OF ALL UTILITIES. A UTILITY RELOCATION SCHEDULE SHALL BE SUBMITTED PRIOR TO THE ISSUANCE OF PERMITS.
- L. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING OR DEDICATING ALL REQUIRED RIGHTS-OF-WAY AND EASEMENTS TO THE CITY PRIOR TO ISSUANCE OF PERMITS.
- M. THE CONTRACTOR SHALL CONTACT BLUE STAKE (602-263-1100) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL LOCATE ALL CONFLICTS PRIOR TO CONSTRUCTION.
- N. THE CONTRACTOR SHALL BARRICADE CONSTRUCTION SITES AT ALL TIMES PER THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL IN ADVANCE OF CONSTRUCTION.
- O. POTABLE WATER IS NOT AVAILABLE FOR CONSTRUCTION USE OTHER THAN THE FILLING AND TESTING OF NEW LINES. THE UNLAWFUL REMOVAL OF WATER FROM A FIRE HYDRANT OR ANY OTHER SOURCE IS A VIOLATION OF THE MUNICIPAL CODE, PUNISHABLE BY FINE AND/OR IMPRISONMENT.
- P. PRIOR TO MOVING OR DESTROYING PROTECTED NATIVE PLANT SPECIES, THE CONTRACTOR SHALL FILE A FORMAL NOTICE OF INTENT WITH THE ARIZONA DEPARTMENT OF AGRICULTURE (602-542-6408).
- Q. THE CONTRACTOR SHALL COMPLY WITH THE ENVIRONMENTAL PROTECTION AGENCY NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER REQUIREMENTS ESTABLISHED FOR CONSTRUCTION SITES. ADEQ GENERAL PERMIT FOR DISCHARGE FROM CONSTRUCTION ACTIVITIES, AND THE CITY OF GOODYEAR STORM WATER MANAGEMENT PLAN.
- R. NO PERSON SHALL USE ANY MECHANICAL EQUIPMENT FOR LAND LEVELING OR CLEARING, ROAD CONSTRUCTION, TRENCHING, EXCAVATING, DEMOLITION, NOR ENGAGE IN ANY EARTHMOVING ACTIVITY WITHOUT FIRST OBTAINING A PERMIT FROM THE MARICOPA COUNTY AIR QUALITY DEPARTMENT (602-506-0666), 1001 N. CENTRAL AVENUE, SUITE 150, PHOENIX, AZ 85003. (THIS NOTICE IS ISSUED PURSUANT TO A.R.S. 36-779.07, NOTICE OF BUILDING AGENCIES.)
- S. THESE PLANS REFLECT CONDITIONS AS THEY EXIST AT THE TIME OF DESIGN. IF EXISTING CONDITIONS HAVE CHANGED BY THE TIME OF CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE CITY AND THESE PLANS MAY HAVE TO BE AMENDED PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.

ENGINEERS GENERAL CONSTRUCTION NOTES:

1. THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES UPON HIMSELF THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THEM WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
2. THE PLANS PREPARED FOR THIS PROJECT PRESENT A DESCRIPTION OF THE WORK TO BE ACCOMPLISHED. THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND DETERMINE, FROM HIS OWN INSPECTION, THE CONDITIONS UNDER WHICH IT IS TO BE PERFORMED. THE CONTRACTOR, BY MAKING HIS BID, REPRESENTS THAT HE HAS VISITED THE SITE AND FAMILIARIZED HIMSELF WITH LOCAL CONDITIONS, THE TYPE OF WORK TO BE PERFORMED, EVALUATED THE DIFFICULTY OF PERFORMING THE REQUIRED TASKS, AND THE LABOR, EQUIPMENT AND MATERIAL THAT ARE REQUIRED TO PROVIDE A COMPLETE PROJECT.
3. THE CONTRACTOR SHALL VERIFY WITH THE DESIGN ENGINEER THAT HE HAS THE MOST CURRENT SET OF CONSTRUCTION PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MUST KEEP THE APPROVED SET OF PLANS ON-SITE FROM START OF CONSTRUCTION TO PROJECT COMPLETION. ANY CONSTRUCTION OR INSTALLATION BASED ON OUT-OF-DATE PLANS SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
4. QUANTITIES LISTED ON THESE PLANS ARE ESTIMATES ONLY. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES BEFORE SUBMITTING A BID FOR THIS WORK.
5. UNLESS NOTED OTHERWISE, THIS PROJECT WAS DESIGNED IN AN EFFORT TO BALANCE THE EARTHWORK. ANY EARTHWORK VOLUMES SHOWN ON THESE PLANS ARE FOR INFORMATION ONLY AND SHALL NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR'S BID SHALL INCLUDE ALL COSTS ASSOCIATED WITH IMPORTING AND PLACING MATERIAL OR STOCKPILING, HAULING AND DISPOSING OF EXCESS MATERIAL IN ACCORDANCE WITH THEIR CALCULATIONS AND DETERMINATION.
6. A THOROUGH ATTEMPT HAS BEEN MADE TO SHOW THE LOCATIONS OF ALL UNDERGROUND OBSTRUCTIONS AND UTILITY LINES IN THE WORK AREA; HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OBSTRUCTIONS AND UTILITY LINES ENCOUNTERED DURING CONSTRUCTION AND SHALL DETERMINE THE EXACT LOCATION OF SAID UTILITIES IN ADVANCE OF TRENCHING. THE ENGINEER WILL NOT GUARANTEE ANY ELEVATIONS OR LOCATIONS OF EXISTING UNDER-GROUND UTILITIES SHOWN ON THESE PLANS.
7. THE CONTRACTOR SHALL CALL BLUE STAKE PRIOR TO CONSTRUCTION AND VERIFY THE PRESENCE OF UTILITIES AND SHALL PROTECT ANY OVERHEAD OR UNDERGROUND UTILITIES DURING CONSTRUCTION. WHETHER OR NOT SAID UTILITIES ARE SHOWN ON THESE PLANS, THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS TO LOCATE UNDERGROUND UTILITIES AND/OR STRUCTURES IF NECESSARY TO VERIFY UNDERGROUND UTILITIES. WHERE EXISTING UNDERGROUND UTILITIES ARE EXPOSED, CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY FOR INSPECTION PRIOR TO BACKFILLING.
8. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL POINTS OF CONNECTION PRIOR TO DIGGING BEYOND THE POINT OF CONNECTION.
9. CONSTRUCTION OF THE SEWER LINE SHALL COMMENCE AT THE FURTHEST DOWNSTREAM POINT OF CONNECTION AND SHALL PROGRESS UPSTREAM FROM THAT POINT.
10. ALL HANDICAP ACCESS RAMPS, PARKING STALLS, AND DELINEATED WALKWAYS SHALL BE CONSTRUCTED AND MARKED IN ACCORDANCE WITH CURRENT FEDERAL AND/OR LOCAL A.D.A. STANDARDS AND REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL AUTHORITIES PRIOR TO CONSTRUCTING AND/OR STRIPING TO CONFIRM CURRENT REQUIREMENTS.
11. ALL SLOPES HIGHER THAN ONE (1) FOOT AND STEEPER THAN 20:1, UNLESS LINED WITH TURF, SHALL BE COMPACTED AND TESTED PER MAG SPECIFICATION 215. RE-COMPACTION IS RECOMMENDED PER MAG SPECIFICATION 215 AFTER INSTALLATION OF IRRIGATION LINES, AND STABILIZATION OF DECOMPOSED GRANITE IS ALSO RECOMMENDED.
12. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS SPECIFIED IN THE GEOTECHNICAL INVESTIGATION. NO PONDING DEEPER THAN 0.05' IS PERMITTED WITHIN 10' OF ANY BUILDING.
13. THE CLIENT AND CONTRACTOR ASSUME ALL RESPONSIBILITY AND COSTS INCURRED IF THEY ELECT TO LANDSCAPE RETENTION BASINS BEFORE THE REQUIRED RETENTION VOLUMES HAVE BEEN CERTIFIED BY THE ENGINEER.
14. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER'S ENGINEER-OF-RECORD PRIOR TO BACKFILLING ANY WET OR DRY UTILITY MAIN OR SERVICE LINES TO ENSURE ALL INSPECTIONS AND TESTING HAS BEEN COMPLETED. NO UTILITY LINES SHALL BE BACKFILLED UNTIL AS-BUILT HORIZONTAL AND VERTICAL LOCATIONS HAVE BEEN OBTAINED. ANY ADDITIONAL COST REQUIRED
15. THE CONTRACTOR SHALL REGISTER ALL DRYWELLS WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY AT THE CONCLUSION OF INSTALLATION AND TESTING. DRYWELL REGISTRATION NUMBERS SHALL BE PROVIDED TO THE OWNER AND ENGINEER OR RECORD.

IMPROVEMENT PLANS
FOR
MILLENNIUM HIGH SCHOOL
GOODYEAR, ARIZONA

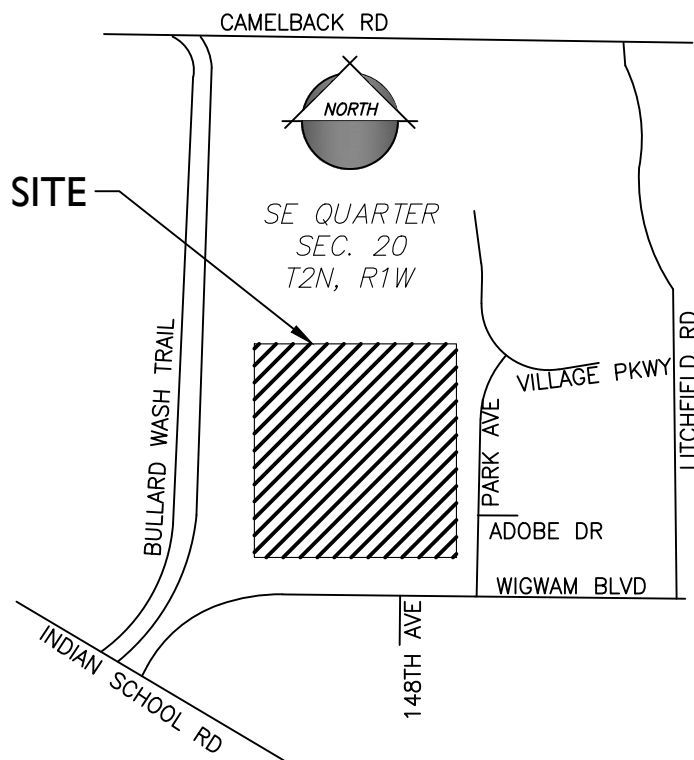
A PORTION IN THE SOUTHEAST QUARTER OF SECTION 20, TOWNSHIP 2 NORTH,
RANGE 1 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN,
MARICOPA COUNTY, ARIZONA



ESTIMATED QUANTITIES

QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY.
ENGINEER MAKES NO GUARANTEE OF ACCURACY.

ITEM	QUANTITY	ITEM	QUANTITY
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VICINITY MAP

(Not to Scale)

CIVIL ENGINEER:

EPS GROUP, INC.
1130 N ALMA SCHOOL ROAD, SUITE 120
MESA, ARIZONA 85201
PHONE: (480) 503-2250
CONTACT: DAN AUXIER
EMAIL: dan.auxier@epsgruppinc.com

ARCHITECT:

BWS ARCHITECTS, INC.
341 E. CAMELBACK ROAD, SUITE 100
PHOENIX, ARIZONA 85012
CONTACT: SUE GRAY, AIA
PHONE: (480) 980-9054
FAX: (480) 980-9054
EMAIL: sgray@bwsarchitects.com

BASIS OF BEARING:

THE SOUTHWEST LINE OF THE SOUTHEAST QUARTER OF SECTION 20, TOWNSHIP 2 NORTH, RANGE 1 WEST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, AS RECORDED IN BOOK 523, PAGE 21 OF MARICOPA COUNTY RECORDS. BEARING: **N89°21'31"W** (ASSUMED BEARING)

BENCHMARK:

CITY OF GOODYEAR BENCHMARK NO. 'G363'; BEING A 3" CITY OF GOODYEAR BRASS CAP IN HANDHOLE AT THE INTERSECTION OF WEST WIGWAM BOULEVARD AND NORTH PARK AVENUE, MARKING THE SOUTHEAST CORNER SECTION 20, TOWNSHIP 2 NORTH, RANGE 1 WEST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA ELEVATION = **1031.53' (NAVD 88 DATUM)**

DESCRIPTION	SHEET TITLE	SHEET NO.
COVER SHEET	C000	I
GENERAL NOTES & DETAILS	C100 - C102	2 - 4
DEMOLITION PLAN	C200 - C201	5 - 6
GRADING & DRAINAGE PLANS	C300 - C306	7 - 13
STORM PROFILES	C307	14
GRADING SECTIONS	C308	15
UTILITY PLANS	C400 - C402	16 - 18
PAVING & HARDSCAPE PLANS	C501 - C503	18 - 20

UTILITY NO CONFLICT CERTIFICATION				
UTILITY	UTILITY COMPANY	NAME OF COMPANY REPRESENTATIVE	TELEPHONE NUMBER	DATE SIGNED
WATER	LIBERTY UTILITIES	-	-	-
SEWER	LIBERTY UTILITIES	-	-	-
TELEPHONE	CENTURYLINK / COX	-	-	-
ELECTRICITY	APS	CARBY HROBER	602-493-4225	-
GAS	SOUTHWEST GAS	RIC TORRES	623-780-3350	-
CABLE TV	CENTURYLINK / COX	-	-	-
ENGINEER'S CERTIFICATION		I, being the person responsible for designing the facilities necessary to serve this development, hereby certify that all of the utility companies listed above have reviewed this project proposal and all conflicts have been resolved at this point. 'No Conflict' forms have been obtained from each utility company.		

DATA CERTIFICATION	
I HEREBY CERTIFY THAT THIS DESIGN IS BASED ON ACCURATE FIELD DATA WHICH HAS BEEN CHECKED IN THE FIELD PRIOR TO SUBMISSION OF THESE PLANS TO THE CITY FOR APPROVAL.	
DANIEL AUXIER, PE	12/15/2020
BY _____	DATE _____

AS-BUILT CERTIFICATION	
I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.	
BY _____	DATE _____ (SEAL)

1130 N Alma School Road
Suite 120
Mesa, AZ 85201
T:480.503.2250 | F:480.503.2258
www.epsgruppinc.com

Project: Millennium High School
14802 W Wigwam Blvd
Goodyear, AZ

Revisions:

12/15/2020 - 50% CD SUBMITTAL

Call at least two full working days before you begin excavation

DESIGNER: EPS
DRAWN BY: EPS

Job No.
20-0544

C000

Sheet No.
I
of 20

LIBERTY UTILITIES GENERAL NOTES

1. THIS PLAN SET SHALL AUTOMATICALLY TERMINATE IF DEVELOPER FAILS TO BEGIN CONSTRUCTION WITHIN ONE YEAR FROM THE PLAN APPROVAL DATE, UNLESS OTHERWISE AGREED TO IN WRITING BY UTILITY. IN THE EVENT THE DEVELOPER ELECTS TO CONSTRUCT THE FACILITIES IN PHASES, ANY PHASE OF CONSTRUCTION THAT HAS NOT COMMENCED CONSTRUCTION WITHIN ONE YEAR FROM THE PLAN APPROVAL DATE WILL NEED A NEW APPROVED PLAN SET PREPARED FOR UTILITY'S APPROVAL UNLESS OTHERWISE APPROVED BY UTILITY IN WRITING. EACH PHASE OF CONSTRUCTION SHALL BE RECOGNIZED AS AN INDEPENDENT CONSTRUCTION PROJECT AS IT PERTAINS TO THIS NOTE.
2. THE CONTRACTOR IS HEREBY ADVISED THAT THE PRODUCTS AND WORKMANSHIP FOR THIS PROJECT ARE WARRANTED TO THE UTILITY FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF THE SIGNED UTILITY FINAL ACCEPTANCE LETTER OR AS OUTLINED IN THE APPLICABLE AGREEMENT.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL MAINTAIN IN PLACE ALL EXISTING UTILITIES. DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
4. THE UTILITY SHALL BE CONTACTED AT LEAST 48 HOURS (2 BUSINESS DAYS) PRIOR TO BEGINNING ANY CONSTRUCTION. **CONTACT UTILITY AT (623.935.9367).**
5. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. **CALL BLUE STAKE (602.236.1100) A MINIMUM OF TWO FULL WORKING DAYS PRIOR TO EXCAVATION.**
6. ALL MATERIAL, WORKMANSHIP, INSTALLATION AND CONSTRUCTION PRACTICE SHALL BE IN ACCORDANCE WITH AND SHALL MEET THE REQUIREMENTS OF THE UTILITY'S MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE (LATEST REVISION), THE UTILITY'S MARICOPA COUNTY DEVELOPMENT GUIDE (LATEST REVISION), THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) AND MARICOPA COUNTY, THE UTILITY'S DEVELOPMENT GUIDE AND GENERAL CONSTRUCTION GUIDES ARE AVAILABLE UPON REQUEST.
7. CONSTRUCTION WORK CONCEALED WITHOUT PRIOR INSPECTION BY THE UTILITY OR ITS DESIGNATED REPRESENTATIVE SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. A SIGNED AND APPROVED SET OF UTILITY CONSTRUCTION PLANS MUST BE ON THE JOB SITE AT ALL TIMES.
9. ALL FACILITIES TO BE OWNED BY THE UTILITY SHALL BE LOCATED IN DEDICATED EASEMENTS OR RIGHTS OF WAY.
10. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY FEDERAL, STATE, AND LOCAL REGULATORY AGENCIES PRIOR TO STARTING CONSTRUCTION.
11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS (LATEST REVISIONS).
12. ALL SURVEYING AND CONSTRUCTION STAKING SHALL BE PROVIDED BY A LAND SURVEYOR/ENGINEER REGISTERED IN THE STATE OF ARIZONA AT THE CONTRACTOR/DEVELOPER'S EXPENSE.
13. THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND MATERIALS SUBMITTALS TO THE UTILITY FOR APPROVAL PRIOR TO CONSTRUCTION, AS REQUIRED BY THE UTILITY.
14. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND UTILITY AND MUST BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
15. DISCLAIMER: THE UTILITY IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS IN THE DEVELOPMENT GUIDE OR CONSTRUCTION GUIDE; THEY HAVE THE RIGHT TO REQUIRE CORRECTION OF ERRORS IN PLANS, WHICH ARE FOUND TO BE IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS AT THE ENGINEER'S AND/OR CONTRACTOR'S EXPENSE.
16. IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED DURING THE COURSE OF THE CONSTRUCTION AND ARE BEYOND THE SCOPE OF THE DESIGN, THE ENGINEER SHALL PROVIDE THE UTILITY WRITTEN NOTIFICATION FOR ANY DESIGN AND CONSTRUCTION CHANGES. UPON THE UTILITY'S WRITTEN APPROVAL, THE ENGINEER SHALL SUBMIT THE NECESSARY REVISED OR SUPPLEMENTAL IMPROVEMENT PLANS FOR REVIEW AND APPROVAL BY THE UTILITY.
17. RECORD DRAWINGS (AS-BUILTS) SHALL CONFORM TO THE UTILITY'S MARICOPA COUNTY DEVELOPMENT GUIDE AND GENERAL CONSTRUCTION GUIDE (LATEST REVISIONS).
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE, MAINTENANCE, REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS, INCLUDING PRIVATE IMPROVEMENTS, IN THE WORK AREA WHICH HAVE BEEN REMOVED OR DAMAGED DURING THE COURSE OF CONSTRUCTION. ALL REPAIR, REPLACEMENT, OR CLEANUP SHALL BE COMPLETED TO THE SATISFACTION OF THE UTILITY AT THE CONTRACTOR'S EXPENSE.
19. ALL PAVEMENT REPLACEMENT SHALL CONFORM TO THE UTILITY'S STANDARDS AND SPECIFICATIONS, STANDARD DETAILS (LATEST REVISIONS) AND ANY ADDITIONAL REGULATORY OR CITY, STATE OR FEDERAL AGENCY STANDARDS, WHICHEVER ARE GREATER.
20. ALL MAIN, SERVICE AND DRY UTILITY SEPARATION SHALL CONFORM TO UTILITY'S MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE AND DEVELOPMENT GUIDE (LATEST VERSION).

LIBERTY UTILITIES WATER NOTES

1. THE CONTRACTOR SHALL NOT CONNECT TO THE EXISTING UTILITY WATER SYSTEM UNTIL ALL TESTING IS COMPLETE AND HAS PASSED LABORATORY ANALYSIS. UTILITY AUTHORIZATION FOR CONNECTION TO THE EXISTING SYSTEM SHALL BE GIVEN ONLY ON THE BASIS OF ACCEPTABLE HYDROSTATIC, DISINFECTION AND BACTERIOLOGICAL TEST RESULTS. WATER MAINS MUST ALSO HAVE AN APPROVAL OF CONSTRUCTION ("AOC") ISSUED BY MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT ("MCESD") PRIOR TO CONNECTING TO THE EXISTING UTILITY WATER SYSTEM.
2. TESTING WATER SHALL BE SUPPLIED THROUGH A METERED CONNECTION EQUIPPED WITH A BACKFLOW PREVENTION DEVICE AT THE POINT OF CONNECTION TO THE POTABLE WATER SOURCE USED. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY PIPING NEEDED TO DELIVER POTABLE WATER TO THE PIPING THAT IS TO BE TESTED. CONTRACTORS SHOULD NOTE THAT THE UNLAWFUL EXTRACTION OF WATER FROM A FIRE HYDRANT OR OTHER NON- METERED SOURCE IS A CRIMINAL OFFENSE. THE UTILITY WILL ACTIVELY AND AGGRESSIVELY PURSUE PROSECUTION OF PERSONS ILLEGALLY EXTRACTING WATER FROM THE UTILITY'S WATER SYSTEM. A HYDRANT METER CAN BE OBTAINED BY CALLING 623-935-9367. ALL CONSTRUCTION WATER (REGARDLESS OF USE) IS TO BE METERED.
3. ALL WATER MAINS SHALL BE INSTALLED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST MAG SPECIFICATIONS AND DETAILS, THE UTILITY'S STANDARDS AND SPECIFICATIONS, AND THE DEVELOPMENT GUIDE (LATEST REVISIONS). ALL WATER MAINS SHALL BE DUCTILE IRON PIPE (DIP), CEMENT- LINED PRESSURE CLASS 350. ALL PIPE AND FITTINGS SHALL BE POLYETHYLENE WRAPPED FOR THE ENTIRE LENGTH OF THE PIPE AS REQUIRED IN ACCORDANCE WITH THE UTILITY'S STANDARDS AND SPECIFICATIONS (LATEST REVISION).
4. WATER LINE EXCAVATION, BACKFILL AND COMPACTION SHALL CONFORM TO MAG STANDARD 601 AND ANY SUBSEQUENT MAG SPECIFICATION AND DETAILS. PIPELINE BEDDING SHALL CONFORM TO MAG SPECIFICATIONS 601.4 MODIFIED TO MECHANICAL COMPACTION ONLY.
5. ALL MAINS SHALL BE CHLORINATED PER MAG SPECIFICATION SECTION 61 I. ALL WATER MAINS SHALL BE FLUSHED AND BACTERIOLOGICALLY TESTED AFTER DISINFECTION BY A THIRD PARTY CERTIFIED IN THE STATE OF ARIZONA AT NO COST TO THE UTILITY. SAMPLES WILL BE DELIVERED TO AN ARIZONA CERTIFIED LABORATORY FOR ANALYSIS. RESULTS SHALL BE SENT TO UTILITY AT 12725 W. INDIAN SCHOOL RD, AVONDALE, AZ 85392 ATTN. DEVELOPMENT SERVICES DEPARTMENT.
6. ALL PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH UTILITY'S SPECIFICATIONS AS OUTLINED IN THE UTILITY'S MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE (LATEST VERSION).
7. 7"PIPELINE BLOW-OFFS, AIR RELEASE OR COMBINATION AIR/VACUUM RELEASE VALVES SHALL BE REQUIRED AS DIRECTED BY THE UTILITY.
8. IN ACCORDANCE WITH AAC R18-4-213. ALL MATERIALS WHICH COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.
9. FIRE HYDRANTS, INCLUDING INSTALLATION, SHALL CONFORM TO THE UTILITY'S MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE (LATEST VERSION).
10. PRIVATE FIRE SYSTEMS/FIRE LINES SHALL CONFORM TO UTILITY'S MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE (LATEST VERSION).
11. ALL INFRASTRUCTURE/SERVICE LINES INSTALLED ON THE CUSTOMER SIDE OF THE METER IS CONSIDERED "PRIVATE" AND SHALL NOT BE OWNED, OPERATED, OR MAINTAINED BY THE UTILITY.
12. ALL WATER SERVICES, METERS, AND METER BOXES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY'S MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE (LATEST VERSION).
13. ALL VALVES SHALL CONFORM TO THE UTILITY'S SPECIFICATIONS AS OUTLINED IN THE UTILITY'S MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE (LATEST VERSION).
14. EXISTING WATERLINE VALVES SHALL ONLY BE OPERATED BY UTILITY PERSONNEL.
15. THE CONTRACTOR SHALL SUBMIT A WATER SERVICE MANAGEMENT PLAN TO THE UTILITY FOR APPROVAL PRIOR TO CONSTRUCTION FOR ANY PORTION OF WORK THAT MAY DISRUPT WATER SERVICE. THE WATER SERVICE MANAGEMENT PLAN SHALL INCLUDE PROVISIONS FOR PROVIDING TEMPORARY SERVICE (APPROVED BY THE UTILITY) AND COORDINATION WITH THE EXISTING CUSTOMERS REGARDING SERVICE INTERRUPTIONS.
16. MARKING TAPE SHALL BE LOCATED AT A MINIMUM OF ONE (1) FOOT ABOVE WATER LINE.
17. TRACER WIRE SHALL BE #12 GAUGE COPPER WIRE. WIRE NUTS NEED TO BE DRY SPLICED WATER-PROOF GEL PACKS. TRACER WIRE IS TO BE BROUGHT UP TO GRADE AT EACH FIRE HYDRANT, VALVE BOX, ETC.

LIBERTY UTILITIES SEWER NOTES

1. CONTRACTOR SHALL FURNISH AND PLACE A WATERTIGHT PLUG IN THE EXISTING SEWER MAIN AT ALL POINTS OF CONNECTIONS TO THE EXISTING SEWER SYSTEM. THE PLUG(S) SHALL REMAIN IN PLACE UNTIL OTHERWISE AUTHORIZED BY THE UTILITY. ALL FIELD ITEMS AND REQUIRED DOCUMENTATION (OUTLINED IN THE APPLICABLE AGREEMENT) SHALL BE SUBMITTED, REVIEWED AND APPROVED BY UTILITY PRIOR TO UTILITY ACCEPTING ANY FLOWS.
2. MANHOLES SHALL BE CONSTRUCTED IN CONFORMANCE WITH, AND SHALL MEET THE REQUIREMENTS OF, ENGINEERING BULLETIN NO. 11, MAG SPECIFICATIONS AND STANDARD DETAILS, THE UTILITY'S MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE AND DEVELOPMENT GUIDE (LATEST REVISIONS).
3. CLEANOUTS SHALL BE CONSTRUCTED IN CONFORMANCE WITH, AND SHALL MEET THE REQUIREMENTS OF, THE UTILITY'S MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE (LATEST REVISION)
4. POLYVINYL CHLORIDE (PVC) SEWER PIPE, EPOXY LINED DUCTILE IRON (DIP) PIPE AND ALL SERVICE LINES SHALL BE CONSTRUCTED IN CONFORMANCE WITH, AND SHALL MEET THE REQUIREMENTS OF, THE UTILITY'S SPECIFICATIONS AS OUTLINED IN UTILITY'S MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE (LATEST VERSION).
5. SEWER LINE EXCAVATION, BACKFILL AND COMPACTION SHALL CONFORM TO MAG STANDARD 601 AND 615 AND ANY SUBSEQUENT MAG SPECIFICATION AND DETAILS. PIPELINE BEDDING SHALL CONFORM TO MAG SPECIFICATIONS 601.4 MODIFIED TO MECHANICAL COMPACTION ONLY.
6. THE CONTRACTOR SHALL SUBMIT A FLOW MANAGEMENT PLAN TO THE UTILITY FOR APPROVAL PRIOR TO CONSTRUCTION FOR ANY PORTION OF WORK THAT MAY DISRUPT SEWER SERVICE. THE FLOW MANAGEMENT PLAN SHALL INCLUDE PROVISIONS FOR PROVIDING TEMPORARY SERVICE (PORTABLE RESTROOMS) AND COORDINATION WITH THE EXISTING CUSTOMERS REGARDING SERVICE INTERRUPTIONS.
7. THE SEWER SHALL BE CONSTRUCTED WITH A MINIMUM OF 7.5 FT FOR TRUNK LINES AND 5.0 FT. MINIMUM FOR ALL OTHER PROVIDED THAT SERVICE LINES HAVE 4.5 FT. MINIMUM COVER AT PROPERTY LINE.
8. MANDREL/DEFLECTION TESTS, LOW PSI TEST, VIDEO INSPECTIONS AND VACUUM TEST REQUIREMENTS SHALL BE IN CONFORMANCE WITH UTILITY'S MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE AND DEVELOPMENT GUIDE (LATEST VERSIONS).
9. ALL INFRASTRUCTURE/SERVICES AND FACILITIES INSTALLED ON THE CUSTOMER SIDE OF THE CLEAN-OUT/MANHOLE OR PROPERTY LINE IN CONSIDERED "PRIVATE" AND SHALL NOT BE OWNED, OPERATED, OR MAINTAINED BY THE UTILITY.
10. GREASE, OIL, OR SAND INTERCEPTORS MUST BE PROVIDED FOR RESTAURANTS, FAST FOOD ESTABLISHMENTS, AUTO REPAIR SHOPS, CARWASHES AND OTHER FACILITIES, WHERE OIL AND GREASE MAY BE DISCHARGED INTO A PUBLIC SEWER AND MUST MEET ALL CITY, COUNTY, UNIFORM PLUMBING CODE (UPC) AND UTILITY REQUIREMENTS, EXCEPT THAT SUCH INTERCEPTORS SHALL NOT BE REQUIRED FOR PRIVATE LIVING QUARTERS OR DWELLING UNITS. ALL SYSTEMS MUST BE APPROVED BY THE UTILITY PRETREATMENT DEPARTMENT BEFORE RECEIVING WATER/SEWER SERVICE. ALL INDUSTRIAL FACILITIES MUST MEET UTILITY PRETREATMENT REQUIREMENTS BEFORE RECEIVING WATER/SEWER SERVICE.
11. MARKING TAPE SHALL BE LOCATED AT A MINIMUM OF ONE (1) FOOT ABOVE SEWER LINE.
12. TRACER WIRE SHALL BE #12 GAUGE COPPER WIRE. WIRE NUTS NEED TO BE DRY SPLICED WATER-PROOF GEL PACKS. TRACER WIRE IS TO BE BROUGHT UP TO GRADE AT EACH CLEANOUT, MANHOLE, ETC. THE TRACER WIRE IS TO BE PLACED INSIDE THE MANHOLE AT THE RING AND COVER.

CITY OF GOODYEAR
GENERAL NOTES FOR SEWER MAIN CONSTRUCTION

- A. ALL GENERAL CONSTRUCTION NOTES SHALL APPLY.
- B. CONTRACTOR WILL EXPOSE ANY LINES BEING TIED INTO, TO VERIFY LOCATION.
- C. THE CITY IS NOT LIABLE FOR DELAYS OR DAMAGES TO UTILITIES RELATED TO THIS CONSTRUCTION.
- D. AS-BUILT DRAWINGS (ONE SET OF PRINTS FOR EACH REVIEW AND A FINAL SET OF MYLARS), CERTIFIED BY THE DEVELOPER'S ENGINEER, SHALL BE SUBMITTED TO AND ACCEPTED BY THE CITY ENGINEER BEFORE FINAL ACCEPTANCE OF THE WORK. SEE AS-BUILT REQUIREMENTS.
- E. BACKFILLING SHALL NOT BE DONE UNTIL LINES ARE INSPECTED AND APPROVED BY THE CITY CONSTRUCTION INSPECTOR.
- F. PAVEMENT REPLACEMENTS SHALL BE MADE PER THE CITY EDS&PM, CITY STANDARD DETAILS, AND MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION.
- G. PVC SEWER PIPE MAY BE USED AS AN ALTERNATIVE FOR VITRIFIED CLAY SEWER PIPE IN ACCORDANCE WITH MAG SPECIFICATION SECTION 745 FOR SIZES THROUGH 15-INCH WITH THE FOLLOWING ADDITION: 745.8 INSTALLATION AND TESTING: INSTALLATION MUST ALSO COMPLY WITH STANDARD SPECIFICATION (ASTM D 2321). SHORT TERM DEFLECTION TESTING SHALL BE PERFORMED ON THE TOTAL FOOTAGE, AFTER COMPLETE BACKFILL AND COMPACTION, BUT PRIOR TO THE INSTALLATION OF FINISHED SURFACE MATERIAL. ADDITIONAL TESTING MAY BE REQUIRED. A SHORT TERM DEFLECTION IN EXCESS OF FIVE PERCENT SHALL BE CONSIDERED UNSERVICEABLE AND SHALL BE REPAIRED OR REPLACED AND RETESTED.
- H. A VISUAL INSPECTION OF THE INTERIOR OF THE SEWER LINE USING A TELEVISION CAMERA WILL BE PERFORMED ON THE TOTAL FOOTAGE OF ALL SEWER LINES, AFTER COMPLETE BACKFILL AND COMPACTION, BUT PRIOR TO THE INSTALLATION OF FINISHED SURFACE MATERIAL. ANY PORTION CONSIDERED UNSERVICEABLE BY THE CITY SHALL BE REPAIRED OR REPLACED AND RETESTED AT NO ADDITIONAL COST TO THE CITY AND RETESTED. TWO (2) COPIES OF THE DVD OF THE SEWER LINE AND REPORT OF OBSERVATIONS SHALL BE PROVIDED TO THE CITY FOR INSPECTION AND PERMANENT RECORD. ALL EXPENSES FOR VISUAL INSPECTION USING TELEVISION CAMERA IS THE RESPONSIBILITY OF THE CONTRACTOR.
- I. ALL MANHOLE RINGS AND LIDS SHALL BE CAST IRON, LIDS SHALL BE IMPRINTED "CITY OF GOODYEAR SANITARY SEWER."
- J. ALL TAPS SHALL BE WYE TYPE.
- K. SEWER TAPS MUST BE A MINIMUM OF 4.5 FEET DEEP AT PROPERTY LINES.
- L. ALL SEWER SERVICE CONNECTIONS SHALL BE EXTENDED A SUFFICIENT DISTANCE ACROSS RIGHT-OF-WAY TO CLEAR ALL FACILITIES TO BE INSTALLED IN PUBLIC UTILITY EASEMENTS PARALLELING THE RIGHT-OF-WAY.
- M. TRACER WIRE SHALL BE INSTALLED ON ALL PRIVATE PVC SEWER LINES.
- N. ALL SANITARY SEWER MANHOLES SHALL BE TESTED IN ACCORDANCE WITH ASTM C-1244-93 (PER ARIZONA REVISED STATUTE A.R.S. R18-9-E301.D.3.f.i).
- O. ALL SANITARY SEWER MANHOLES SHALL BE COATED WITH A CORROSION RESISTANT COATING AND TREATED WITH AN INSECTICIDE THAT ARE LISTED IN THE CITY'S SEWER APPROVED MATERIALS LIST. RE-APPLICATION OF CORROSION RESISTANT COATING AND INSECTICIDE MUST BE PERFORMED AFTER MODIFICATION TO EXISTING MANHOLES SUCH AS NEW STUBS OR MANHOLE EXTENSIONS ARE DONE.
- P. PRIOR TO THE ISSUANCE OF SEWER PERMITS, STREET SUBGRADE ELEVATIONS SHALL BE GRADED TO WITHIN 0.5 FEET OF THE APPROVED PAVING PLANS; OPEN SPACES, TRACTS, AND RIGHTS-OR-WAYS ELEVATIONS GRADED TO WITHIN 0.3 FEET OF APPROVED GRADING PLAN ELEVATIONS OR SUBGRADE BULE-TOP STAKES ARE SET AT MINIMUM 100 FOOT INTERVALS BY A SURVEYOR; AND PADS CERTIFIED TO BE AT OR +0.1 FEET ABOVE THE PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING PLANS.
- Q. PRIVATE ON-SITE WATER AND SEWER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE CITY STANDARDS.

CITY OF GOODYEAR
GENERAL NOTES FOR WATER MAIN CONSTRUCTION

- A. ALL GENERAL CONSTRUCTION NOTES SHALL APPLY.
 - B. ALL CONSTRUCTION SHALL CONFORM TO THE CITY EDS&PM, CITY STANDARD DETAILS, AND CURRENT MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION.
 - C. CITY OF GOODYEAR INSPECTORS SHALL BE NOTIFIED 48-HOURS PRIOR TO STARTING EACH PHASE OF CONSTRUCTION, AND EACH INSPECTION REQUESTED (623-882-7979).
 - D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND ELEVATION OF ANY UTILITY LINES BEFORE STARTING CONSTRUCTION. IF THE EXISTING LINE IS FOUND TO BE IN A SUBSTANTIALLY DIFFERENT LOCATION, OR WILL ADVERSELY AFFECT THE OPERATION OF THE UTILITY, THE CONTRACTOR SHALL NOTIFY THE CITY OF GOODYEAR PRIOR TO MAKING THE CONNECTIONS. AMENDMENTS TO THE PLANS MAY BE REQUIRED PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
 - E. THE CITY OF GOODYEAR IS NOT LIABLE FOR DELAYS OR DAMAGES TO UTILITIES RELATED TO THIS CONSTRUCTION.
 - F. AS-BUILT DRAWINGS (ONE SET OF PRINTS FOR EACH REVIEW AND A FINAL SET OF MYLARS), CERTIFIED BY THE DEVELOPER'S ENGINEER, SHALL BE SUBMITTED TO AND ACCEPTED BY THE CITY ENGINEER BEFORE FINAL ACCEPTANCE OF THE WORK. SEE AS-BUILT REQUIREMENTS.
 - G. BACKFILLING SHALL NOT BE DONE UNTIL LINES ARE INSPECTED AND APPROVED BY THE CITY CONSTRUCTION INSPECTOR.
 - H. MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR ACCORDING TO THE CITY'S APPROVED MATERIALS LIST, EDS&PM CITY STANDARD DETAILS AND MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION. THE APPROVED MATERIALS LIST IS AVAILABLE ON THE CITY WEBSITE OR FROM THE CITY ENGINEERING DEPARTMENT.
 - I. ALL SERVICE LINES SHALL BE TYPE K COPPER PIPE OR TUBING. THE MINIMUM SIZE SERVICE SHALL BE ONE-INCH. SERVICE LINES SHALL BE CONTINUOUS UNDER PAVEMENT WITHOUT A CONNECTION OR EXTENSION.
 - J. ALL TAPS SHALL USE ALL BRONZE DOUBLE STRAP SERVICE SADDLES. THE DEVELOPER IS TO INSTALL ALL TAPS AND METER BOXES. THE TAP SHALL TERMINATE WITH AN ANGLE METER VALVE WITHIN THE METER BOX PER CITY STANDARDS.
 - L. METERS SHALL BE FURNISHED AND INSTALLED BY THE UTILITY AGENCY AFTER PAYMENT OF ALL PREVAILING FEES.
 - M. METERS WILL ONLY BE INSTALLED IF:
 1. ALL BACTERIOLOGICAL TESTS AND A COUNTY APPROVAL OF CONSTRUCTION (AOC) LETTER HAVE BEEN RECEIVED.
 2. CURB AND GUTTER HAS BEEN CONSTRUCTED AND THE METER BOX IS INSTALLED TO THE SPECIFIED GRADE PER PLANS.
 3. THE LOT NUMBER AND ADDRESS ARE CLEARLY POSTED.
 4. THE METER BOX IS VISIBLE AND FREE OF OBSTRUCTION AND DAMAGE.
 5. THE METER BOX AND LID ARE PER THE CITY APPROVED MATERIALS LIST.
 6. THE METER BOX AND LID ARE OF THE CORRECT SIZE.
 7. THE SERVICE LINES AND CONNECTIONS ARE FREE OF LEAKS.
 - N. PAVEMENT REPLACEMENTS SHALL BE MADE PER THE CITY EDS&PM, CITY STANDARD DETAILS, AND MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION.
 - O. ALL WATER SERVICE CONNECTIONS SHALL BE EXTENDED A SUFFICIENT DISTANCE ACROSS THE RIGHT-OF-WAY TO CLEAR ALL FACILITIES TO BE INSTALLED IN PUBLIC UTILITY EASEMENTS PARALLELING STREET RIGHT-OF-WAY.
 - P. TRACER WIRE SHALL BE INSTALLED ON ALL PRIVATE PVC WATER LINES LARGER THAN 6 INCHES.
 - Q. ALL WATER LINES 12 INCHES AND LARGER AND RECLAIMED WATER LINES SHALL BE MARKED WITH LOCATING TAPE ONE FOOT ABOVE THE MAIN.
 - R. ALL CHANGES IN DIRECTION OF WATER LINES 6 INCHES AND LARGER SHALL BE MARKED WITH AN ELECTRONIC MARKER. ELECTRONIC MARKER SHALL BE A SELF-LEVELING TYPE AND OPERATE ON A FREQUENCY OF 145.7 KHZ UP TO A DEPTH OF 4 FEET.
 - S. PRIOR TO THE ISSUANCE OF WATER PERMITS, STREET SUBGRADE ELEVATIONS SHALL BE GRADED TO WITHIN 0.5 FEET OF THE APPROVED PAVING PLANS; OPEN SPACES, TRACTS, AND RIGHTS-OR-WAYS ELEVATIONS GRADED TO WITHIN 0.3 FEET OF APPROVED GRADING PLAN ELEVATIONS; AND PADS CERTIFIED TO BE AT OR +0.1 FEET ABOVE THE PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING PLANS.
 - T. PRIVATE ON-SITE WATER AND SEWER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE CITY STANDARDS.
 - U. ALL DUCTILE IRON WATER LINES LARGER THAN 12 INCHES IN DIAMETER SHALL BE ENCASED IN POLYETHYLENE WRAP PER MAG STANDARD AND MANUFACTURER SPECIFICATIONS.
 - V. THE CONTRACTOR MUST REQUEST A METER FOR FILLING AND TESTING OF NEW WATER LINES FROM THEIR ASSIGNED CITY CONSTRUCTION INSPECTOR. THIS METER SHOULD BE ORDERED TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 0.4.7 General Notes for Sewer Main Construction

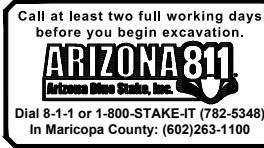
CITY OF GOODYEAR
GENERAL NOTES FOR GRADING AND DRAINAGE CONSTRUCTION

- A. ALL GENERAL CONSTRUCTION NOTES SHALL APPLY.
- B. FINISHED FLOOR ELEVATIONS SHALL BE A MINIMUM OF 18 INCHES ABOVE POINT OF OUTFALL. LOTS SHALL BE DESIGNED TO FALL TOWARDS THE STREET AT A GRADE NO LESS THAN ONE PERCENT. A PERMIT IS REQUIRED FOR ANY ON-SITE GRADING.
- C. A SEPARATE PERMIT IS REQUIRED FOR ANY GRADING RELATED TO OFF-SITE CONSTRUCTION.
- E. STAKING PAD AND/OR FINISHED FLOOR ELEVATIONS ARE THE RESPONSIBILITY OF THE DEVELOPER OR HIS ENGINEER. IN A CRITICAL DRAINAGE AREA (FEMA ZONES A, AO, AH, A1-A33, AND A99), CERTIFICATION OF THE FINISHED BUILDING FLOOR OR STEM WALL ELEVATION SHALL BE SUBMITTED AND APPROVED PRIOR TO ANY VERTICAL CONSTRUCTION. IN NON-CRITICAL AREAS, THE DEVELOPER'S ENGINEER SHALL SUBMIT CERTIFICATIONS OF CONSTRUCTED BUILDING PAD ELEVATIONS PRIOR TO THE CITY'S ACCEPTANCE OF THE PROJECT.
- F. THE CONTRACTOR SHALL COMPLY WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN PREPARED IN ACCORDANCE WITH THE CITY'S GENERAL AZPDDES STORM WATER PERMIT REQUIREMENTS.
- G. THE GRADING CONTRACTOR SHALL DESIGNATE THE LOCATION FOR WASTING SPOIL MATERIALS AND OBTAIN A LETTER FROM THE OWNER GIVING PERMISSION FOR SAID DISPOSAL PRIOR TO STARTING ON-SITE CONSTRUCTION.
- H. GRADING AND DRAINAGE PLAN APPROVAL INCLUDES RETENTION AND DETENTION AREAS, OTHER DRAINAGE FACILITIES AND CHANGES TO SURFACE GRADING AFFECTING DRAINAGE STRUCTURES, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATIONS.
- I. THE CONTRACTOR SHALL PROVIDE ALL RETENTION AND DETENTION BASINS AT ELEVATIONS AS SHOWN ON THE PLANS. RETENTION BASINS SIDE SLOPES SHALL NOT EXCEED 4:1 ON PRIVATE PROPERTY OR 6:1 ADJACENT TO WALKWAYS OR AREAS DESIGNATED FOR PEDESTRIAN ACCESS AND PUBLIC RIGHTS-OF-WAY. RETENTION BASIN HIGH WATER ELEVATIONS SHALL NOT EXCEED 3-FOOT DEPTH ON PRIVATE PROPERTY OR 1.5-FOOT DEPTH WITHIN 10-FEET OF PUBLIC RIGHTS-OF-WAY. RETENTION IS NOT PERMITTED WITHIN PUBLIC RIGHTS-OF-WAY OR PUBLIC UTILITY EASEMENTS.
- J. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN AS A RESULT OF CONFLICT WITH UNDERGROUND UTILITIES, THE CONTRACTOR SHOULD CONTACT THE CITY AND DESIGNER AND REQUEST MODIFICATION OF THE BASIN DESIGN.
- K. "AS-BUILT" DRAWINGS (ONE SET OF PRINTS FOR EACH REVIEW AND A FINAL SET OF MYLARS), CERTIFIED BY THE DEVELOPER'S ENGINEER, SHALL BE SUBMITTED AND APPROVED PRIOR TO ISSUANCE OF A BUILDING "CERTIFICATE OF OCCUPANCY." DEVELOPERS OF NEW PROJECTS SHALL PROVIDE FINANCIAL ASSURANCE IN A FORM AND AMOUNT ACCEPTABLE TO THE CITY TO COVER THE COST TO CORRECT ANY STORM WATER DRAINAGE OR DISPOSAL PROBLEMS THAT MAY ARISE DURING THE FIRST 5 YEARS FOLLOWING THE COMPLETION OF THE INITIAL PROJECT.
- L. CONSTRUCTION, DURING THE 5-YEAR PERIOD, IF DISPOSAL METHODS IN USE ARE FOUND TO BE INSUFFICIENT TO DISPOSE OF RETAINED STORM WATER WITHIN A 36-HOUR PERIOD FOLLOWING A RAIN EVENT, THE DEVELOPER'S ENGINEER SHALL SUBMIT A CORRECTIVE ACTION PLAN TO THE CITY FOR REVIEW AND APPROVAL. THE SUBMITTED INFORMATION SHALL DEMONSTRATE MEASURES THAT WILL BE IMPLEMENTED TO CORRECT DEFICIENCIES IN THE SYSTEM. THE PLAN SHALL CONFORM TO THE REQUIREMENTS OF THESE GENERAL NOTES.
- M. PRIOR TO THE ISSUANCE OF STORM DRAIN PERMITS, STREET SUBGRADE ELEVATIONS SHALL BE GRADED TO WITHIN 0.5 FEET OF THE APPROVED PAVING PLANS; OPEN SPACES, TRACTS, AND RIGHTS-OF-WAY ELEVATIONS GRADED TO WITHIN 0.3 FEET OF APPROVED GRADING PLAN ELEVATIONS; AND PADS CERTIFIED TO BE AT OR +0.1 FOOT ABOVE THE PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING PLANS.

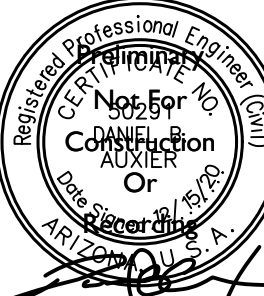
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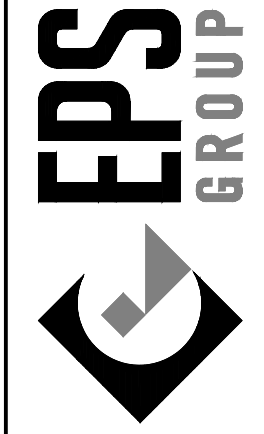
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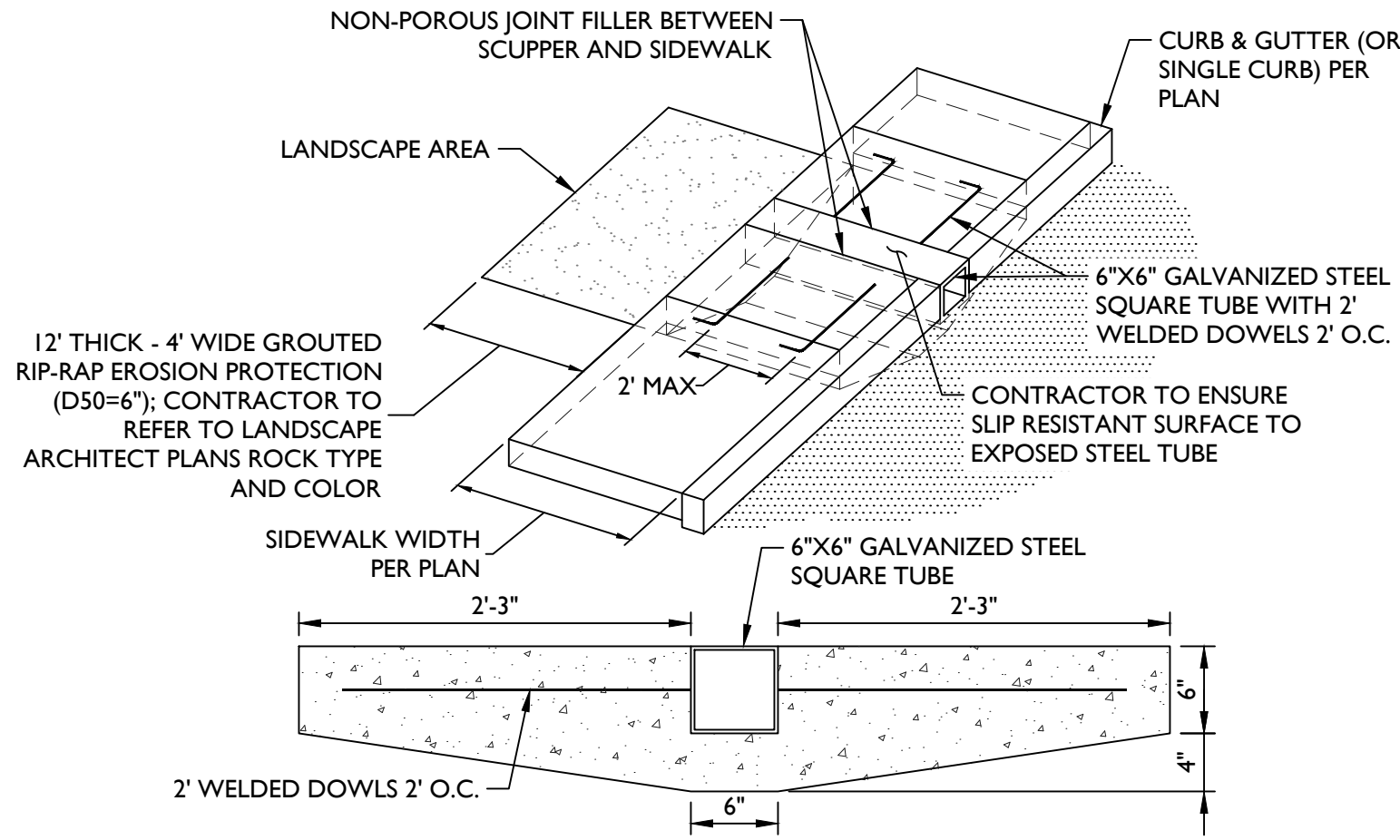
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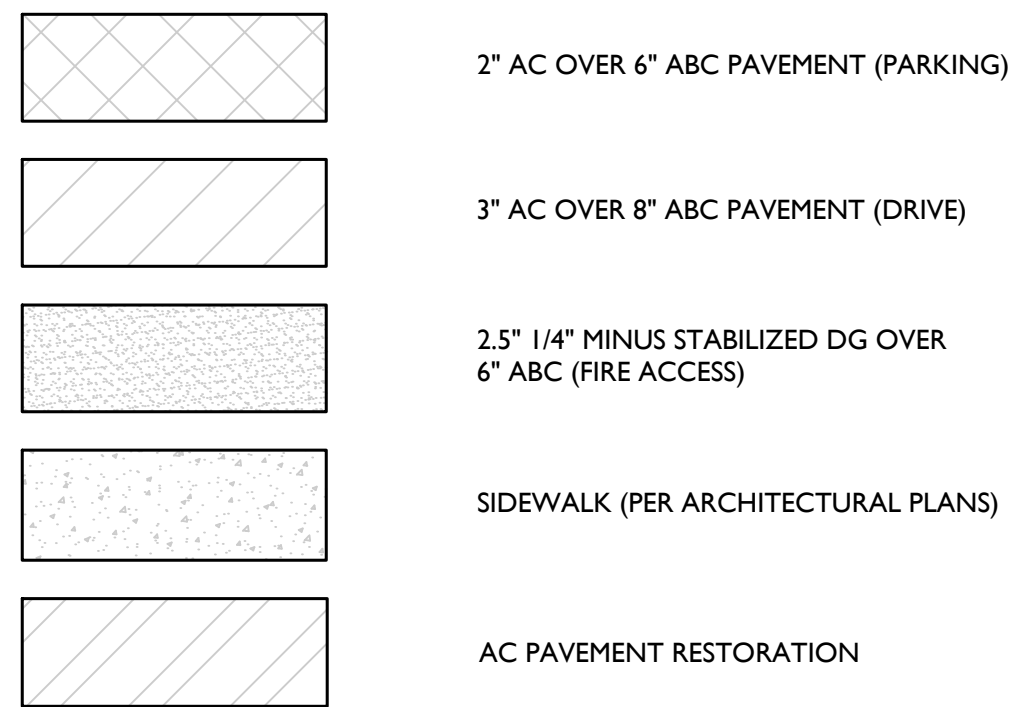
Millennium High School
14802 W. Wigwam Blvd
Goodyear, AZ

General Notes Sheet

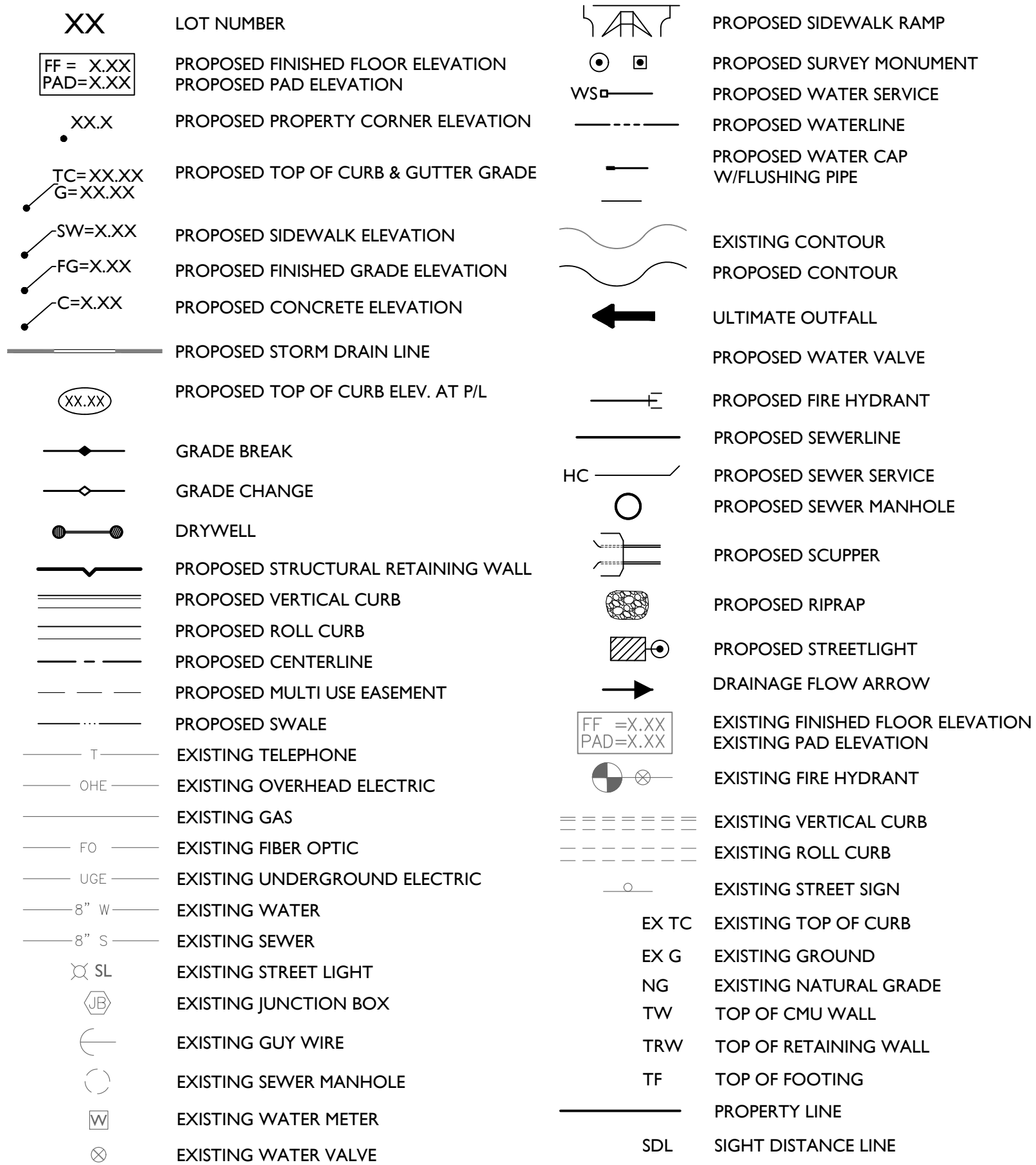




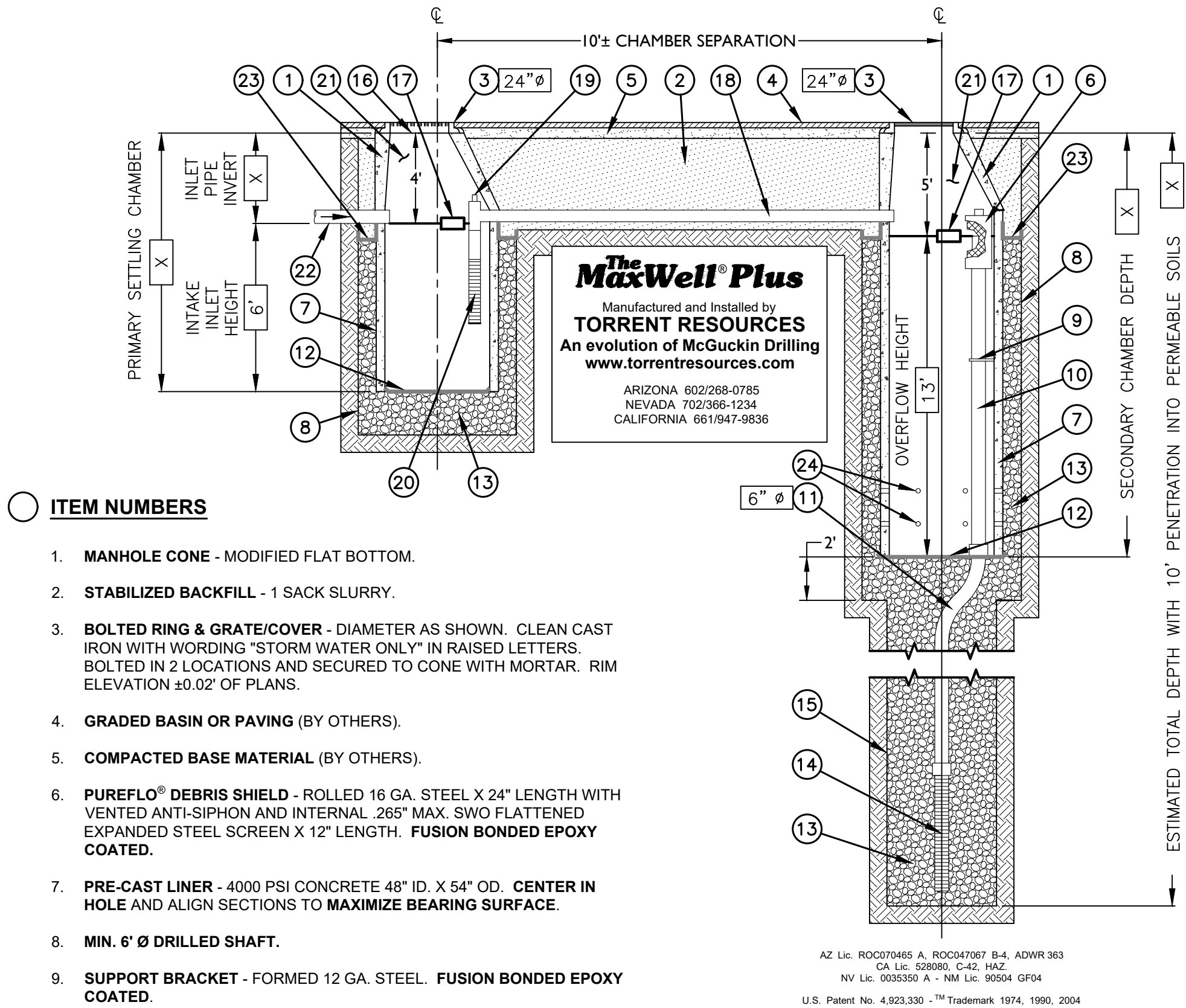
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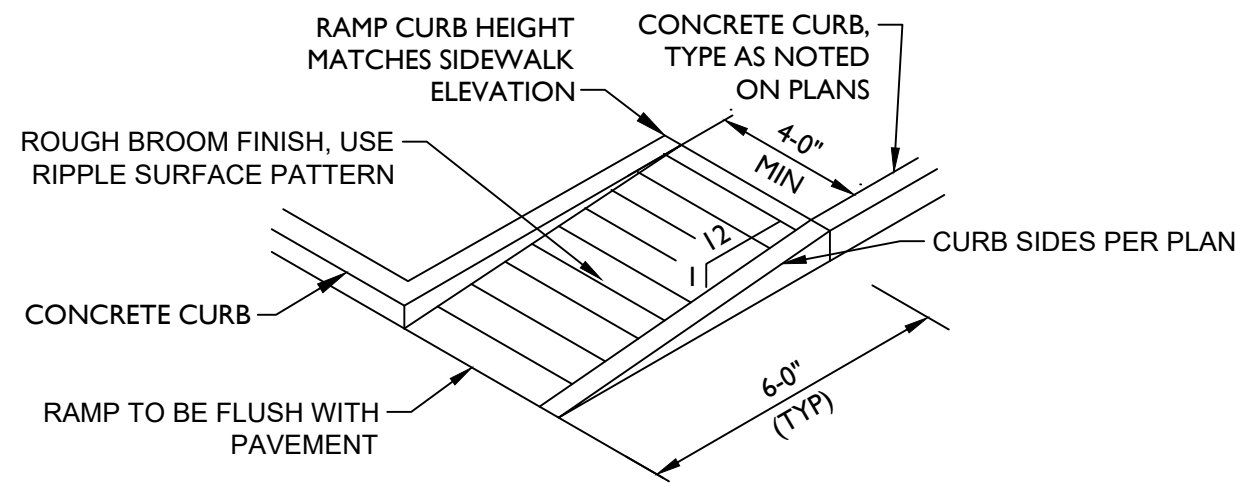


The MaxWell® Plus Drainage System Detail And Specifications

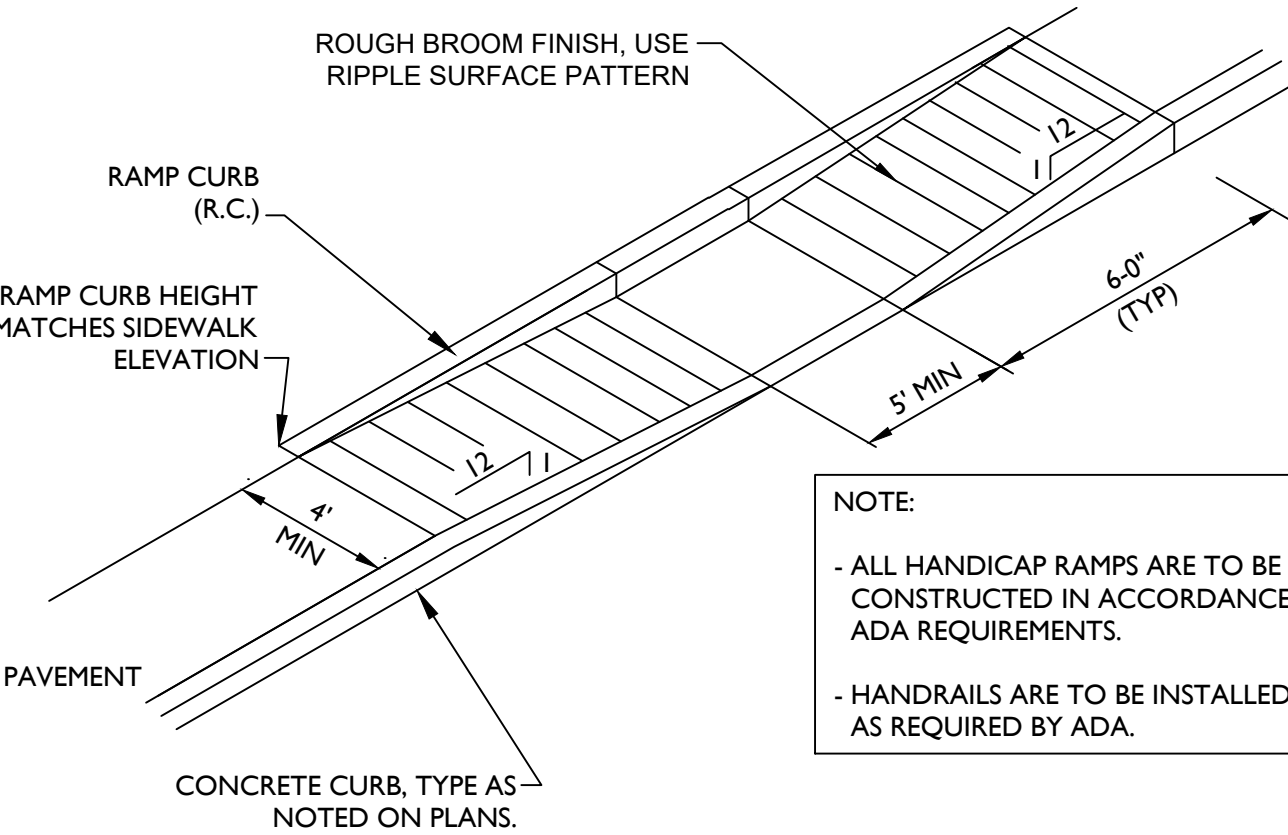


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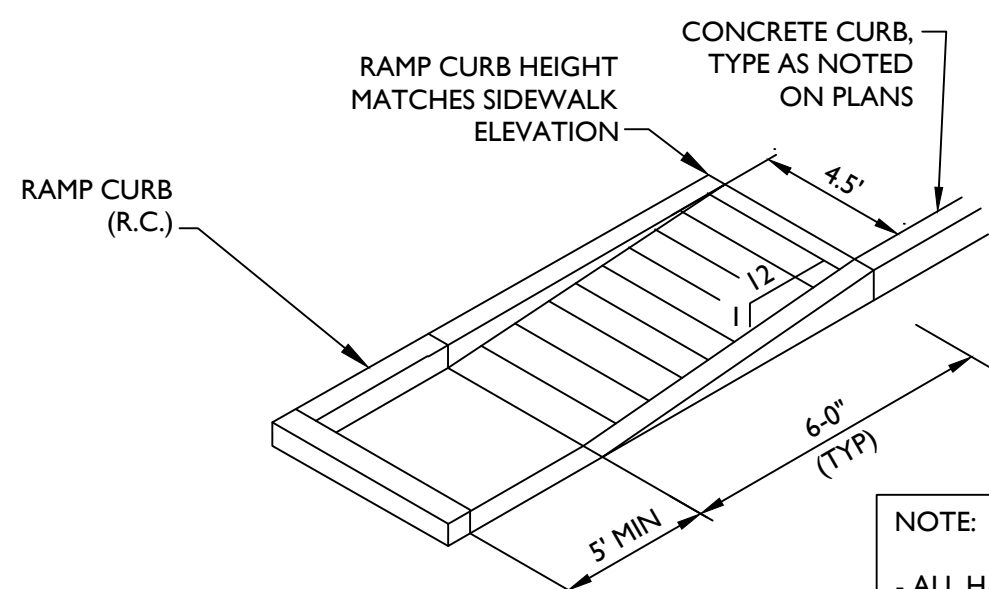
1. MANHOLE CONE - MODIFIED FLAT BOTTOM.
2. STABILIZED BACKFILL - 1 SACK SLURRY.
3. BOLTED RING & GRATE/COVER - DIAMETER AS SHOWN. CLEAN CAST IRON WITH WORDING "STORM WATER ONLY" IN RAISED LETTERS. BOLTED IN 2 LOCATIONS AND SECURED TO CONE WITH MORTAR. RIM ELEVATION $\pm 0.02'$ OF PLANS.
4. GRADED BASIN OR PAVING (BY OTHERS).
5. COMPACTED BASE MATERIAL (BY OTHERS).
6. PUREFLO® DEBRIS SHIELD - ROLLED 16 GA. STEEL X 24" LENGTH WITH VENTED ANTI-SIPHON AND INTERNAL .205" MAX. SWO FLATTENED EXPANDED STEEL SCREEN X 12" LENGTH. FUSION BONDED EPOXY COATED.
7. PRE-CAST LINER - 4000 PSI CONCRETE 48" ID. X 54" OD. CENTER IN HOLE AND ALIGN SECTIONS TO MAXIMIZE BEARING SURFACE.
8. MIN. 6" Ø DRILLED SHAFT.
9. SUPPORT BRACKET - FORMED 12 GA. STEEL. FUSION BONDED EPOXY COATED.
10. OVERFLOW PIPE - SCH. 40 PVC MATED TO DRAINAGE PIPE AT BASE SEAL.
11. DRAINAGE PIPE - ADS HIGHWAY GRADE WITH TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS TO PREVENT BUCKLING OR BREAKAGE. DIAMETER AS NOTED.
12. BASE SEAL - GEOTEXTILE OR CONCRETE SLURRY.
13. ROCK - WASHED, SIZED BETWEEN 3/8" AND 1-1/2" TO BEST COMPLEMENT SOIL CONDITIONS.
14. FLOFAST® DRAINAGE SCREEN - SCH. 40 PVC 0.120" SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. DIAMETER VARIES 120" OVERALL LENGTH WITH TRI-B COUPLER.
15. MIN. 4" Ø SHAFT - DRILLED TO MAINTAIN PERMEABILITY OF DRAINAGE SOILS.
16. FABRIC SEAL - U.V. RESISTANT GEOTEXTILE - TO BE REMOVED BY CUSTOMER AT PROJECT COMPLETION.
17. ABSORBENT - HYDROPHOBIC PETROCHEMICAL SPONGE. MIN. 128 OZ. CAPACITY.
18. CONNECTOR PIPE - 4" Ø SCH. 40 PVC.
19. ANTI-SIPHON VENT WITH FLOW REGULATOR.
20. INTAKE SCREEN - SCH. 40 PVC 0.120" MODIFIED SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. 48" OVERALL LENGTH WITH TRI-C END CAP.
21. FREEBOARD DEPTH VARIES WITH INLET PIPE ELEVATION. INCREASE PRIMARY/SECONDARY SETTLING CHAMBER DEPTHS AS NEEDED TO MAINTAIN ALL INLET PIPE ELEVATIONS ABOVE CONNECTOR PIPE OVERFLOW.
22. OPTIONAL INLET PIPE (BY OTHERS).
23. MOISTURE MEMBRANE - 6 MIL. PLASTIC. PLACE SECURELY AGAINST ECCENTRIC CONE AND HOLE SIDEWALL. USED IN LIEU OF SLURRY IN LANDSCAPED AREAS.
24. EIGHT (8) PERFORATIONS PER FOOT, 2 ROWS MIN.



NOTE:
- ALL HANDICAP RAMPS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH ADA REQUIREMENTS.
- HANDRAILS ARE TO BE INSTALLED AS REQUIRED BY ADA.

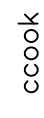


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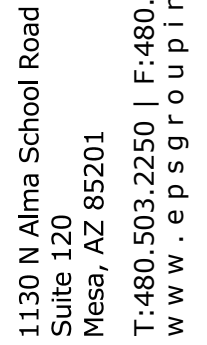
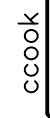


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Call at least two full working days
before you begin excavation.

ARIZONA 811
Arizona One-Stop, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602)263-1100

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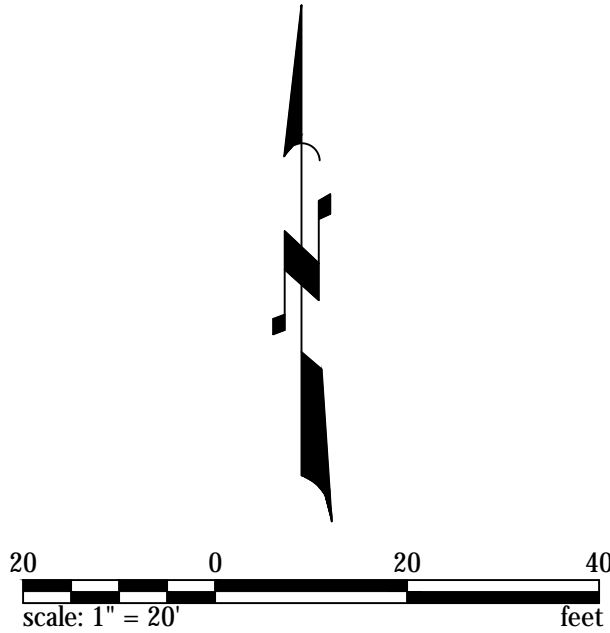
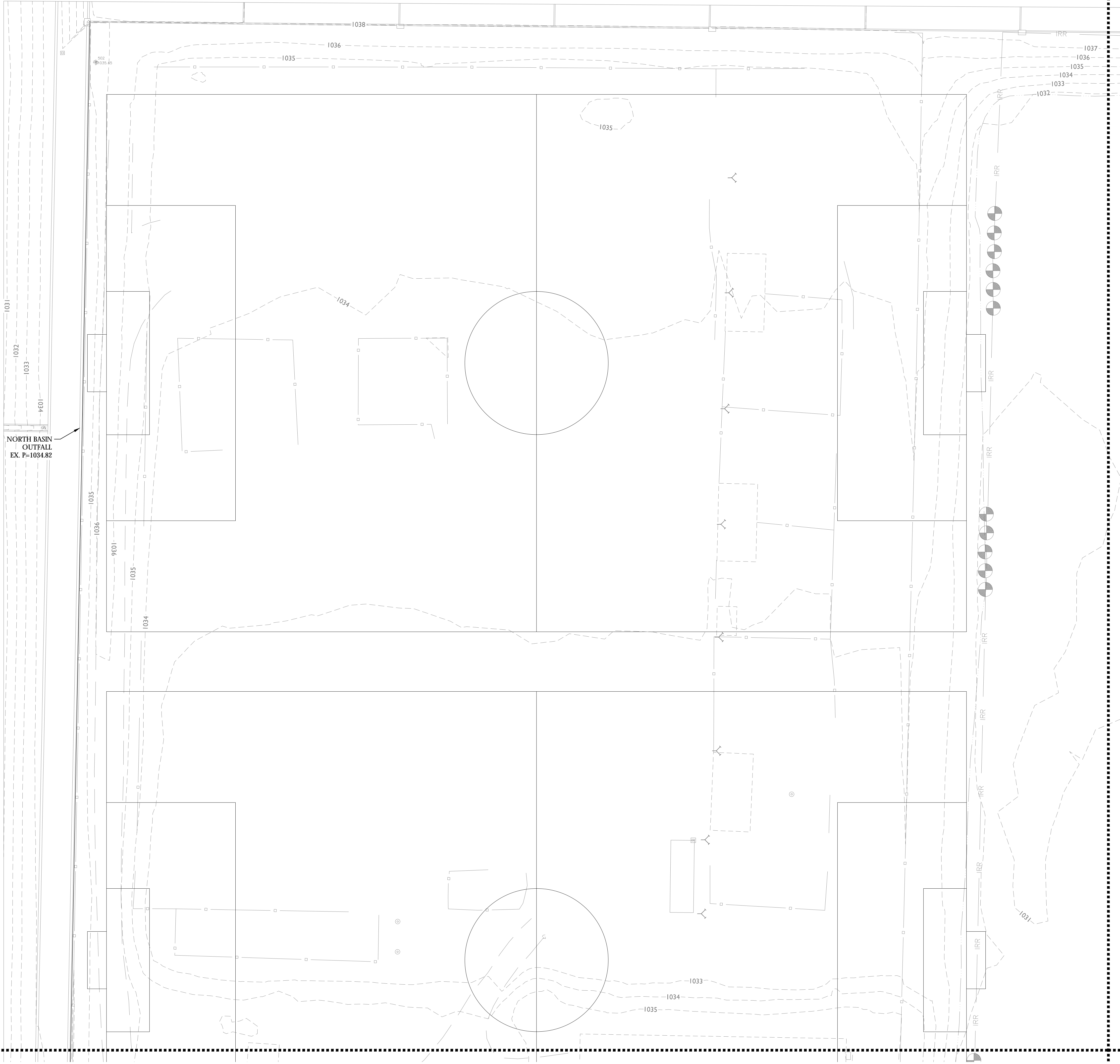
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20-0544 - Millennium High School Improvements

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Call or text 1-800-977-6848 or 1-800-977-6849

in Maricopa County: (602)263-1100

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Professional Engineer (PE)

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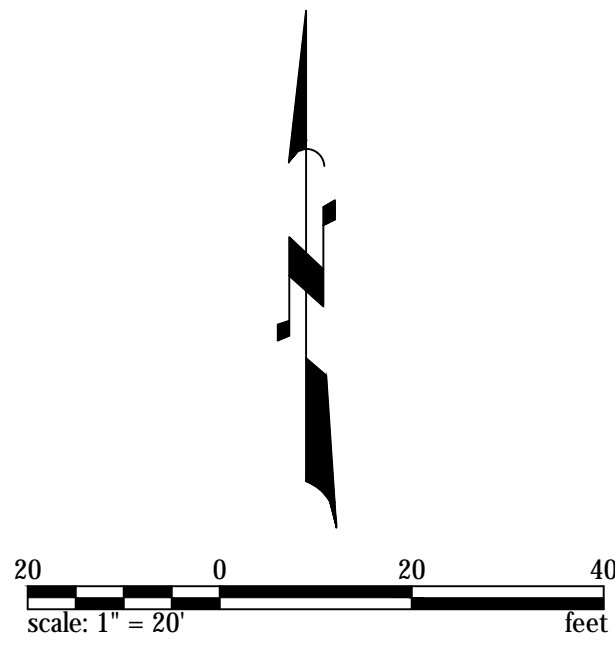
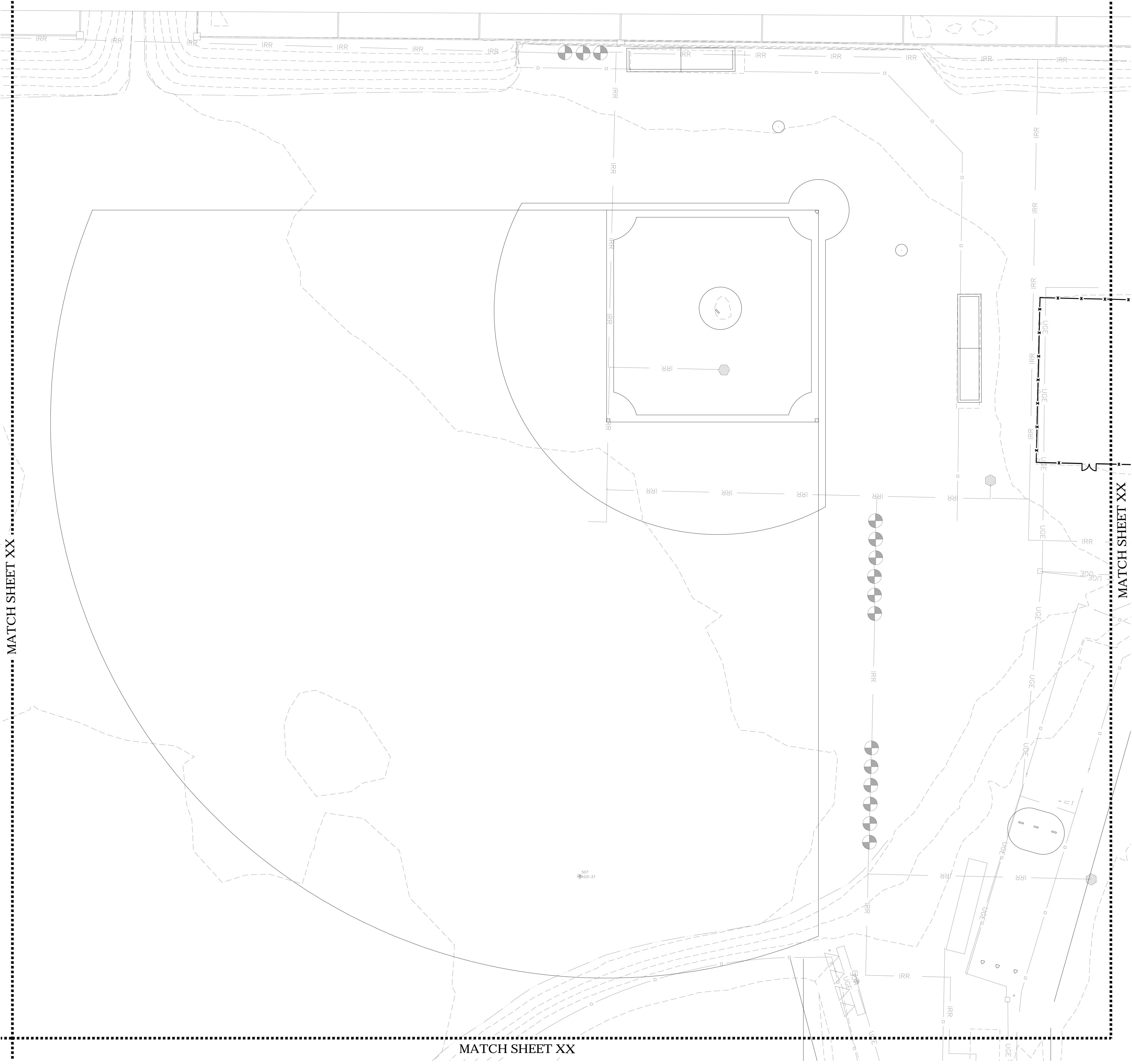
Millennium High School
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Goodyear, AZ

EPS GROUP

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Suite 120
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T: 480.503.2250 | F: 480.503.2258
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20-0544 - Millennium High School Improvements

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Drawn by: EPS

Professional Engineer (Civil)

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12/15/20

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20-0544

C301



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Millennium High School
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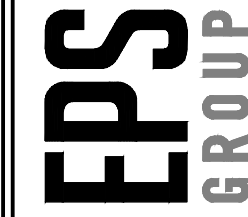
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		1130 N Alma School Road Suite 120 Mesa, AZ 85201 T: 480.503.2250 F: 480.503.2258 www.epsgru p . i n c . c o m	
Project:		Revisions:	
12/15/20 - 50% CD SUBMITTAL		Call at least two full working days before you begin excavation. <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 5px 0;"> ARIZONA <small>ONE STOP INC. 1400 N. PASEO (102-5240) 101 Maricopa County (928)233-1160</small> </div>	
Designer: EPS		Drawn by: EPS	
			
Job No.		20-0544	
C302		Sheet No.	
9		of 20	

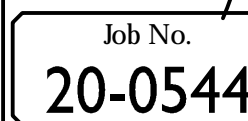
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Millennium High School
14802 W Wigwam Blvd
Goodyear, AZ

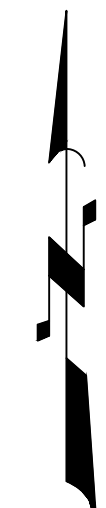
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Drawn by: EPS



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of 20

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ARIZONA 811
Arizona One-Stop, Inc.

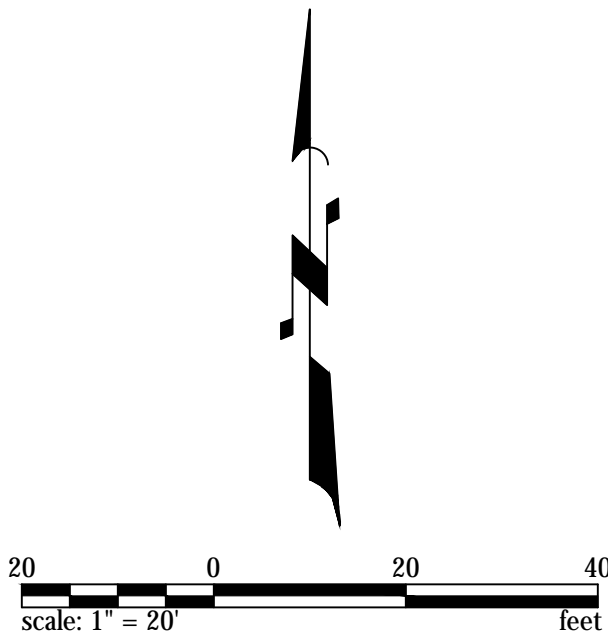
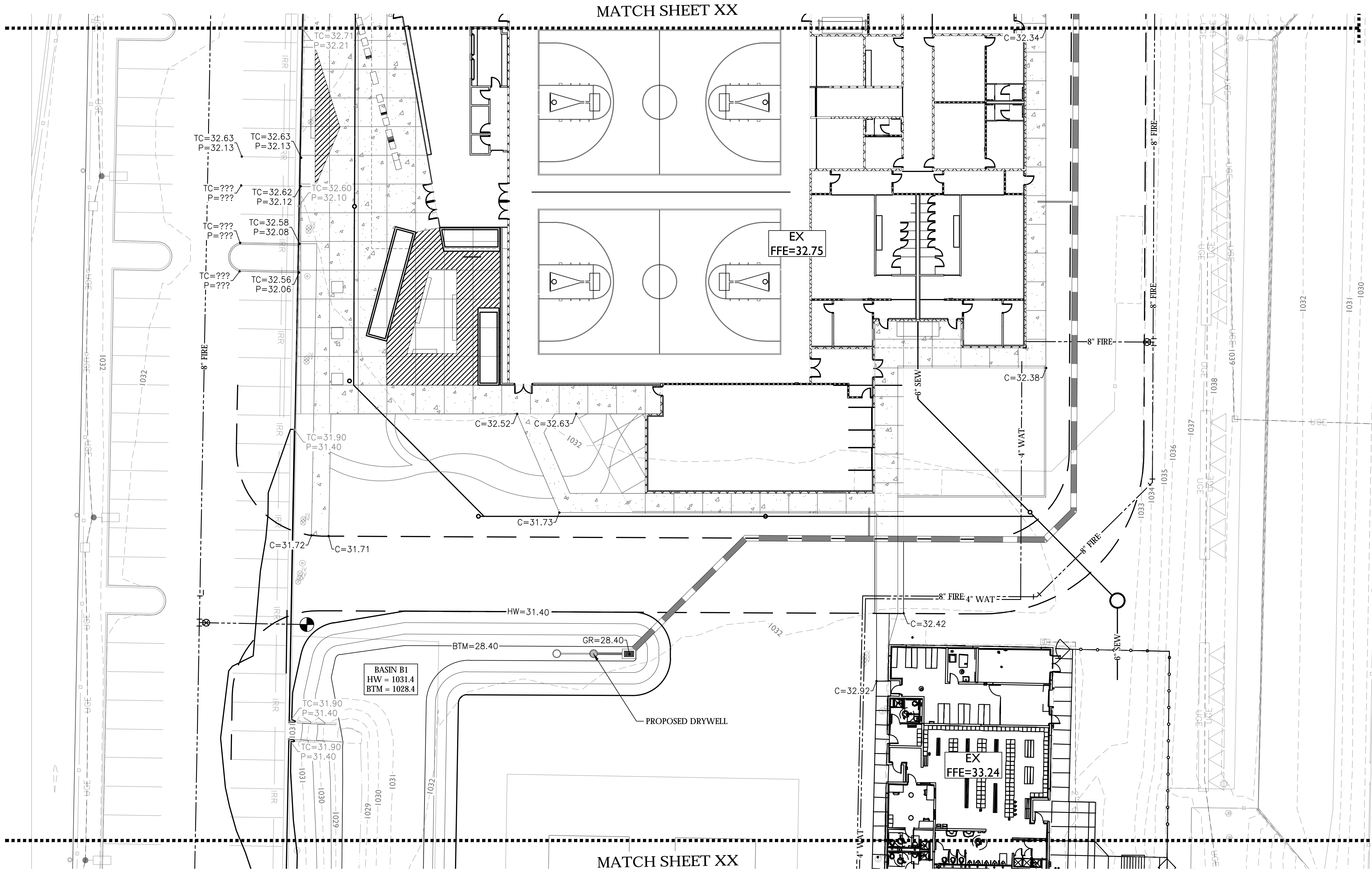
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 363-4400

C304

Sheet No.
11
of 20

20-0544 - Millennium High School Improvements

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EPS

GROUP

Project:

Millennium High School
14802 W. Wigwag Blvd
Goodyear, AZ

Design:

EPS

Drawn by:

EPS

Professional Engineer (PE)
Not for Construction Or
Record

Job No.

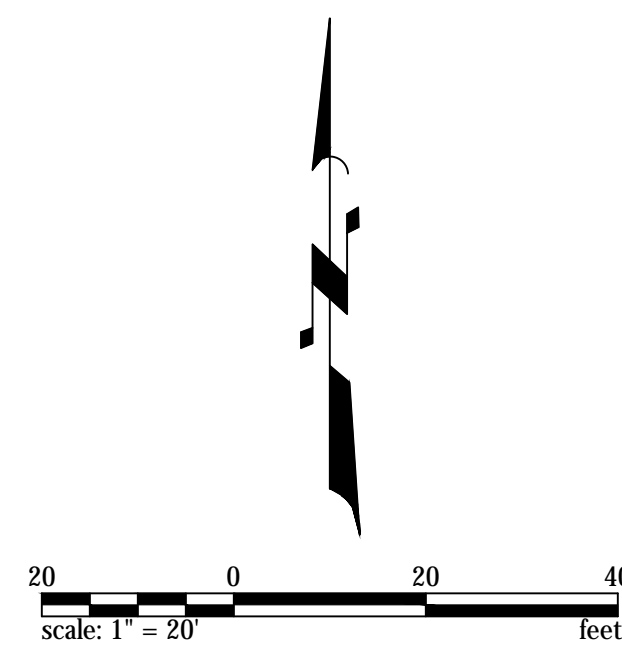
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Sheet No.

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of 20

C305

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Project:

Millennium High School
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Goodyear, AZ

Revisions:

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ARIZONA

Professional Engineer
1111 N. 19th Street, Suite 100
Phoenix, AZ 85016-1111
In Maricopa County: (602)263-1100

Designer:

EPS

Drawn by:

EPS

Professional Engineer
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Job No.

20-0544

C307

Sheet No.

2 of 20

1130 N Alma School Road
Suite 120
Mesa, AZ 85201
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Project:

Millennium High School
14802 W Wigwam Blvd
Goodyear, AZ

Revisions:

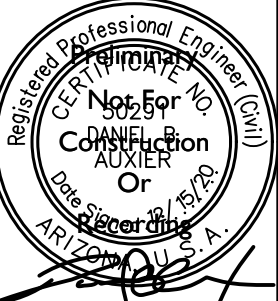
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800-488-8111 or 1-800-871-0049
in Maricopa County: (602)263-1100

Designer: EPS

Drawn by: EPS

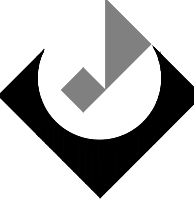

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20-0544

Sheet No.

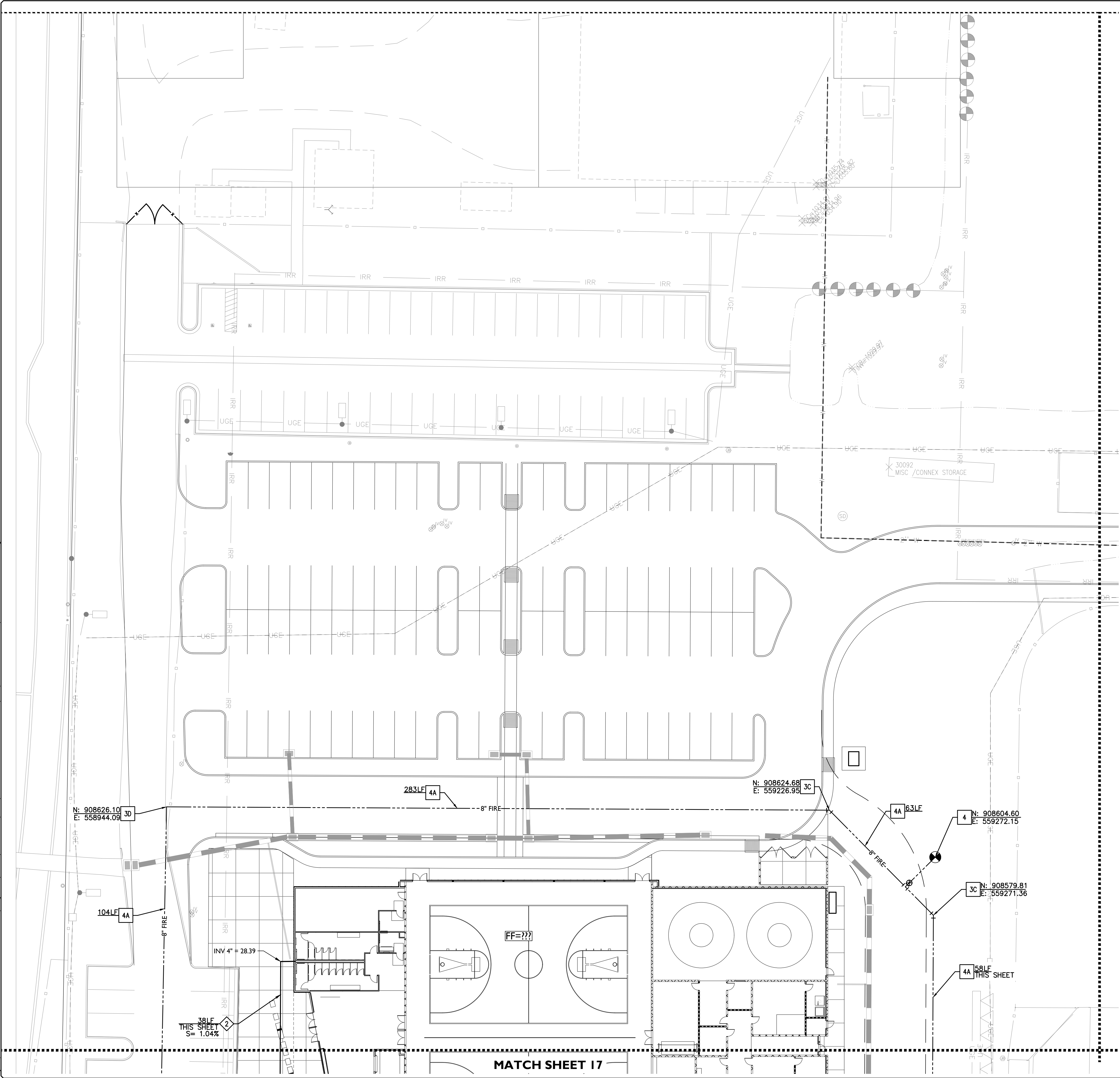
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of 20


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20-0544 - Millennium High School Improvements

jesuivlel

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WATER NOTES

- 3C

8" - 45' BEND PER MAG STD DTLS 303-1, 303-2, & MAG SPEC. 619

2 EA
- 3D

8" - 90' BEND PER MAG STD DTLS 303-1, 303-2, & MAG SPEC. 620

1 EA
- 4

FIRE HYDRANT ASSEMBLY PER COG STD DTL G-3330

1 EA
- 4A

8" DIP (PRESSURE CLASS 350) FIRELINE

508 LF

SEWER NOTES

- 2

4" PVC SEWER LINE, SDR-35 PER MAG 440

38 LF



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Project:

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Goodyear, AZ

Revisions:

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State of Arizona
800-878-6846
In Maricopa County: (602)263-1100

Designer:

EPS

Drawn by:

EPS

Job No.

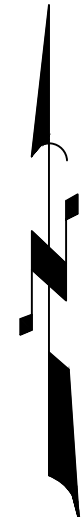
20-0544

C400

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of 20

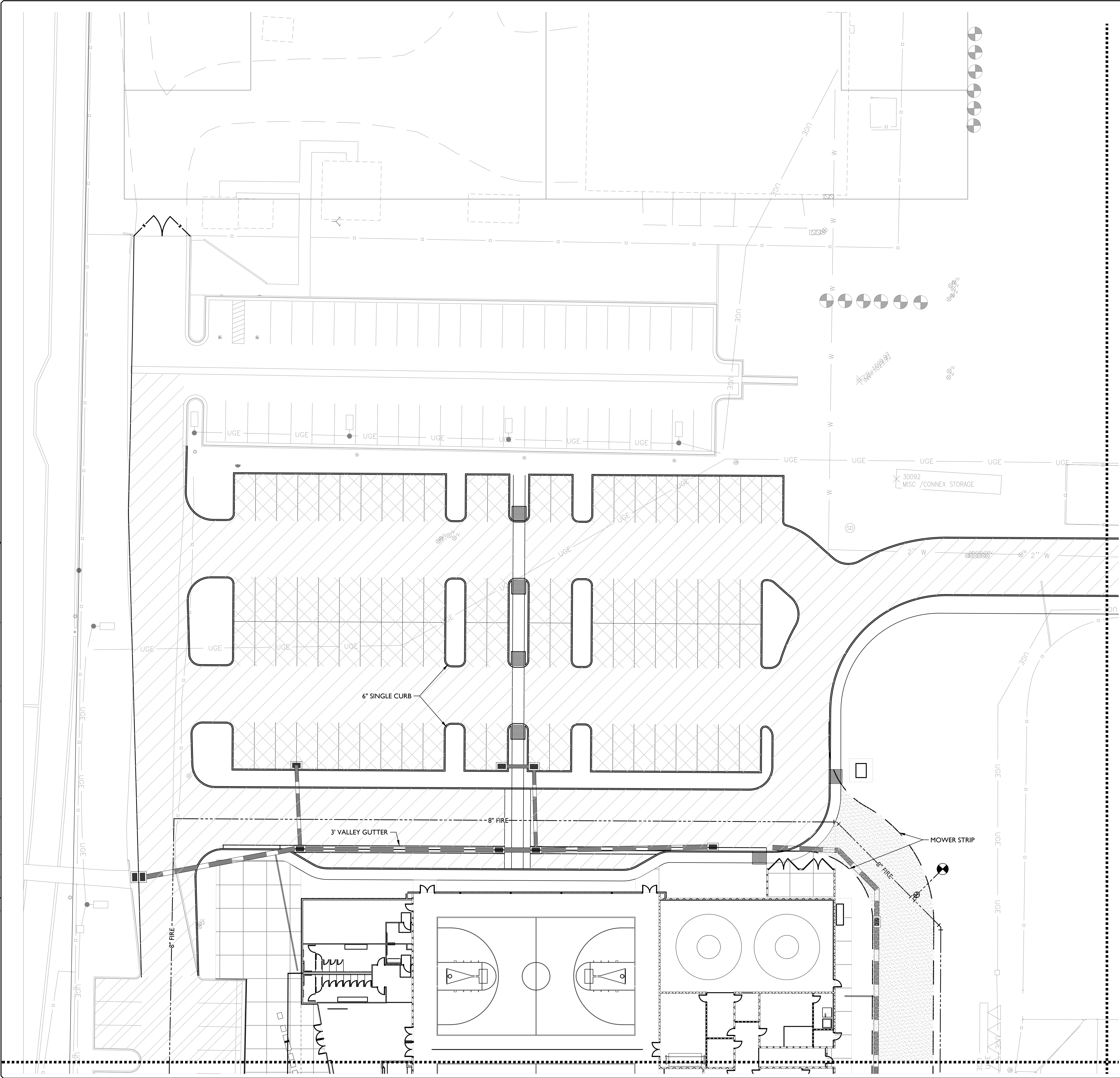
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20-0544 - Millennium High School Improvements

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douxier



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Revisions:		Paving & Hardscape Plan			
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ARIZONA Professional Engineer (Civil) Not for Construction Or Retention		Drawn by: EPS		C501	
				Sheet No. 18 of 20	

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Professional Engineer (Civil)
 Registered Professional Engineer (Civil)
 CERTIFICATE NO. 22313
 DANIEL B. AUXIER
 Date Expires 12/31/2010
 ARIZONA, U.S.A.

dauwier

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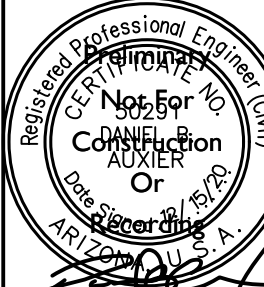


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Revisions:



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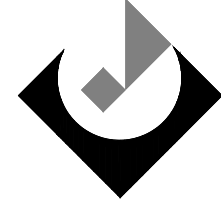
Job No. 20-0544

C503

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Millennium High School
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Paving & Hardscape Plan



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