SAHUARO ELEMENTARY SCHOOL

12835 NORTH 33RD AVENUE

PHOENIX, ARIZONA 85029

CITY OF PHOENIX FIRELINE NOTES:

1. ALL CONSTRUCTION IN CITY OF PHOENIX RIGHT-OF-WAY TO CONFORM TO M.A.G. SPECIFICATIONS AND DETAILS AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS, UNLESS MODIFIED ON THE PLANS. 2. PLANNING AND DEVELOPMENT DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY

CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811 3. IT IS REQUIRED THAT A FORMAL WRITTEN REQUEST FOR A FIRELINE TURN-ON BE RECEIVED BY CIVIL ENGINEERING OF THE PLANNING AND DEVELOPMENT DEPARTMENT FROM CITY OF PHOENIX FIRE PREVENTION UPON COMPLETION OF THE FIRE LINE WORK. THIS JOB IS NOT COMPLETE UNTIL THIS HAS BEEN DONE AND THE LINE TURNED ON BY THE WATER SERVICES

- 4. THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:
 - FIRE LINE DETECTOR CHECK VALVE
 - CURB STOP WITH FLUSHING PIPE
- 391-1 VALVE BOX INSTALLATION 12"X2" TAPPED CAP WITH BALL VALVE RATE 300 PSI OR GREATER AT THE END OF OFFSITE WORK IS REQUIRED IF ONSITE WORK IS NOT CONCURRENT WITH OFFSITE CONSTRUCTION. THE TAPPED CAP MUST BE INSTALLED BEFORE THE BACKFLOW PREVENTION DEVICE.

6. FIRELINE CONNECTION TO CITY MAINS SHALL BE USED FOR FIRE PROTECTION SYSTEM ONLY. NO METERED SERVICES CAN BE CONNECTED TO A FIRELINE.

7. BACKFLOW PREVENTION DEVICES ARE REQUIRED ON ALL FIRE LINES. CONNECTIONS ARE TO BE IN ACCORDANCE WITH UNIVERSITY OF SOUTHERN CALIFORNIA - MANUAL OF CROSS-CONNECTION CONTROL. SEE BUILDING SAFETY FOR DETAILS. BACKFLOW DEVICES ARE TO BE SHOWN ON THE OFFSITE PLAN. FIRE LINES THAT ARE PROPOSED WITH BACKFLOW PREVENTION DEVICES SHALL BE REQUIRED TO PROVIDE A CERTIFICATE OF APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCCHR), PRIOR TO FIRE LINE PERMIT ISSUANCE, PER ARIZONA ADMINISTRATIVE CODE R18-4-115D.

BACKFLOW PREVENTION DEVICES SHALL NOT BE LOCATED IN DRIVEWAYS, VISIBILITY TRIANGLES, OR OTHER LOCATIONS WHERE ACCIDENTAL DAMAGE OR VISIBILITY OBSTRUCTION WOULD BE A LIKELY CONSEQUENCE.

9. BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED OUTSIDE OF RIGHT OF WAY AT (OR NEAR) THE PROPERTY LINE (POINT OF SERVICE) AND SHALL BE FULLY ACCESSIBLE FOR THE PERIODIC TESTING, REPAIRS, AND REPLACEMENT. THERE SHALL BE AN UNOBSTRUCTED RADIUS OF NO LESS THAN THREE (3) FEET FROM THE OUTER PERIMETER OF THE BACKFLOW PREVENTION DEVICE PER THE 2006 PHONEIX FIRE CODE (INTERNATIONAL FIRE CODE) SECTION 901.10.

10. IN THE ABSENCE OF SPECIFIC PRESSURE DROP INFORMATION, THE DIAMETER OF THE INLET OR OUTLET OF ANY BACKFLOW PREVENTION DEVICE OR ITS CONNECTING PIPING SHALL NOT BE LESS THAN THE DIAMETER OF SUCH WATER DISTRIBUTION PIPING TO THE FIXTURES SERVED BY THE DEVICE, PER UPC 610.2. IF AVAILABLE, PRESSURE DROP INFORMATION SHALL BE PROVIDED WITH THE SUBMITTED PLANS.

11. LOOPED ONSITE FIRE LINE SYSTEMS SHALL BE PROVIDED A BACKFLOW PREVENTOR AT EACH POINT OF CONNECTION TO THE PUBLIC WATER SYSTEM, PER UPC 603.3.11.

12. ALL WORK MUST COMPLY WITH THE REQUIREMENTS OF THE CURRENT CITY OF PHOENIX TRAFFIC BARRICADE MANUAL. 13. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER MAG SECTION 336 AND COP DETAIL P1200 - TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER MAG STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER COP DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING AND DEVELOPMENT OFFSITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER, IN THE CITY OF PHOENIX R.O.W, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX R.O.W.

14. MINIMUM COVERAGE OVER THE TOP OF PIPE SHALL BE FOUR (4) FEET IF THE MAIN IS LOCATED IN A MAJOR STREET OR THE MAIN IS 12" OR LARGER. OTHERWISE, THREE (3) FEET OF COVER OVER THE TOP OF THE PIPE IS REQUIRED.

15. COMPACTION SHALL COMPLY WITH M.A.G. SEC. 601, 95% MINIMUM IN A PUBLIC STREET.

UTILITY CONFLICT NOTICE

UTILITY | UTILITY COMPANY | TELEPHONE

ANDRE BENAVIDEZ

KEVIN WAGNER

SCOTT SUASO

GARETTE GOLDING

COMPANY | REPRESENTATIVE

16. ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT POLICY (TRT 00164 AND 17. APPROVAL OF THESE PLANS SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE OR OTHER HEALTH/

18. PLAN APPROVAL IS VALID FOR 12 MONTHS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION. EXTENSION. AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING

NOTES:

PERMITS.

- 1. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY THE PRESENCE AND LOCATION OF ANY AND ALL EXISTING OVERHEAD AND/OR UNDERGROUND UTILITIES THAT MAY INTERFERE WITH THE CONSTRUCTION. WHETHER OR NOT SAID UTILITIES ARE SHOWN ON THE CONSTRUCTION PLANS FOR THIS PROJECT. CONTRACTOR SHALL ADEQUATELY PROTECT AND MAINTAIN SUCH UTILITIES.
- THE CONTRACTOR SHALL EXPOSE ALL REQUIRED UTILITY CONNECTION POINTS A MINIMUM OF 10 FEET TO VERIFY APPROPRIATE HORIZONTAL LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION STAKING, ANY VARIATION OF CONNECTION LOCATIONS FOUND IN THE FIELD SHALL BE REPORTED TO THE DESIGN ENGINEER AND OWNER PRIOR TO THE START OF CONSTRUCTION STAKING.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RELOCATIONS AND INSTALLATIONS OF FRANCHISE UTILITIES NECESSARY FOR ON AND OFF SITE CONSTRUCTION.

NUMBER

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LOCATION MAP

BASIS OF BEARING

BASIS OF BEARINGS:

SOUTH 89° 58' 53" EAST ALONG THE NORTH LINE OF THE SOUTHWEST QUARTER OF SECTION 14, TOWNSHIP 3 NORTH, RANGE 2 EAST, ALSO BEING THE MONUMENT LINE OF SWEETWATER AVENUE BETWEEN 35TH AVENUE AND 31ST AVENUE PROJECTED FROM THE U.S. STATE PLANE NAD83 COORDINATE SYSTEM ARIZONA STATE PLANE COORDINATE ZONE CENTRAL, DETERMINED BY GPS OBSERVATIONS COLLECTED DURING THIS SURVEY.

CITY OF PHOENIX BRASS CAP FLUSH LOCATED AT THE INTERSECTION OF 31ST AVENUE AND SWEETWATER AVENUE. AN ELEVATION OF 1272.35 (NGVD 29)

PROJECT INFORMATION

ASSESSOR'S PARCEL NUMBER (APN): 149-43-131

SHEET INDEX							
SHEET	DESCRIPTION						
FL1.0	FIRELINE COVER SHEET						
FL1.1 – FL1.2	FIRELINE PLAN						

THE QUANTITIES LISTED BELOW ARE APPROXIMATE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE QUANTITIES INVOLVED AND BASE HIS/HER BID ON HIS/HER OWN ESTIMATE.

PUBLIC FIRELINE QTY

INSTALL 12"X8" TAPPING SLEEVE AND VALVE PER MAG STD DET 340 AND MAG SPEC SUBSECTION 630.4.2(A)(1). INSTALL VALVE BOX AND COVER PER COP STD DET P1391 AND ADJUST TO FINISHED GRADE PER COP STD DET PER COP STD DET P1270.	1 EA
INSTALL 8" PRESSURE CLASS 350 DIP WATER MAIN POLYWRAPPED WITH TRACER WIRE, LENGTH PER PLAN.	26 LF
INSTALL 8" GATE VALVE AND VALVE BOX PER COP STD DET P1391, TYPE "A".	1 EA
SAWCUT, REMOVE, AND REPLACE ASPHALT PAVEMENT PER MAG SPEC 336 AND COP STD DET P1200.	15 SY
CRACK FILL AND SEAL PROPOSED PAVEMENT SAWCUT LINE PER MAG SPEC 337. MICROSURFACE FULL ROAD WIDTH PER MAG SPEC 331 AND COP STREET PAVEMENT CUT POLICY.	1,350 SF
WET UTILITY CROSSING. MAINTAIN VERTICAL SEPARATION AS NOTED. PROVIDE EXTRA PROTECTION PER MAG STD DET 404 AS NECESSARY.	1 EA
REMOVE AND REPLACE TYPE 'A' 6" VERTICAL CURB AND GUTTER PER MAG STD DET 220. REMOVE ENTIRE JOINT TO JOINT, TYP.	8 LF
	00.05

DET 230. REMOVE FULL PANEL, JOINT TO JOINT, TYP.	
PRIVATE FIRELINE QTY	
INSTALL 8" PVC C900 WATER LINE, PRESSURE CLASS 150 MIN, WITH TRACER WIRE, LENGTH PER PLAN. 4' MIN COVER.	660 L
INSTALL 8" WILKINS 350 OR FEBCO LF850 DOUBLE CHECK VALVE ASSEMBLY PER COP STD DETAIL P1352. CONTRACTOR SHALL MAINTAIN AN UNOBSTRUCTED RADIUS OF NO LESS THAN THREE FEET FROM THE OUTER PERIMETER OF THE BACKFLOW PREVENTOR.	1 EA
INSTALL 6" PVC C900 WATER LINE, PRESSURE CLASS 150 MIN, WITH TRACER WIRE, LENGTH PER PLAN. 3' MIN COVER.	68 LF
INSTALL FIRE HYDRANT ASSEMBLY (VALVE INCLUDED) PER MAG STD DET 360 AND COP STD DET P1362, WITH WHITE REFLECTIVE BONNETS. VALVE SHALL BE PLACED WITHIN 20' OF HYDRANT.	3 EA
INSTALL 8" BEND, ANGLE PER PLAN, WITH THRUST BLOCKS PER 2013 NFPA 24 10.8.2 AND DETAIL ON SHEET FR3.	5 EA
INSTALL 8"X6" TEE WITH THRUST BLOCKS PER NFPA 24 10.8.2 AND MAG STD DETAIL 380.	2 EA
WET UTILITY CROSSING. MAINTAIN VERTICAL SEPARATION AS NOTED. PROVIDE EXTRA PROTECTION PER PLUMBING CODE AS NECESSARY WITH VERTICAL SEPARATION OF WATER LINE WITH	2 EA

REMOVE AND REPLACE CONCRETE SIDEWAL AS PER MAG STD

OWNER

CACTUS RD

SWEETWATER AVE

ASTER DR

CORRINE DR

COLUMBINE DR

CHARTER OAK RE

WASHINGTON ELEMENTARY SCHOOL DISTRICT 4650 WEST SWEETWATER AVENUE GLENDALE, ARIZONA 85304 PHONE: (602) 347-4835 FAX: (602) 347-4836 CONTACT: MIKE KRAMER

VICINITY MAP

WESTOWN PARK

ENGINEER

KIMLEY-HORN & ASSOCIATES 7740 NORTH 16TH STREET, SUITE 300 PHOENIX, ARIZONA 85020 PHONE: (602) 944-5500 FAX: (602) 944-7423 CONTACT: SEAN WOZNY

LANDSCAPE ARCHITECT

KIMLEY-HORN & ASSOCIATES 7740 NORTH 16TH STREET, SUITE 300 PHOENIX, ARIZONA 85020 PHONE: (602) 944-5500 FAX: (602) 944-7423 CONTACT: SEAN WOZNY

UTILITY COMPANIES

SANITARY SEWER AND WATER: CITY OF PHOENIX PLANNING AND DEVELOPMENT DEPARTMENT 200 WEST WASHINGTON STREET PHOENIX, ARIZONA 85003-1611 PH: (602) 262-7004 FAX: (602) 495-5784

GOVERNING AGENCY

CITY OF PHOENIX PLANNING AND DEVELOPMENT DEPARTMENT 200 WEST WASHINGTON STREET PHOENIX, ARIZONA 85003-1611 PH: (602) 262-7004 FAX: (602) 495-5784

FIRELINE CONTRACTOR

PROJECT DESCRIPTION:

VERTICAL DIP AS PER MAG STD DTL. 404-1, TYP.

THIS PROJECT CONSISTS OF ADDING A FIRE LINE FOR THE ADDITION OF PRIVATE FIRE HYDRANTS FOR THE EXISTING WASHINGTON ELEMENTARY SCHOOL DISTRICT SAHUARO ELEMENTARY SCHOOL TO COINCIDE WITH THE CONSTRUCTION OF A CONCRETE FIRE LANE UNDER A SEPARATE PROJECT WITH THE SCHOOL FACILITY

THE PROPOSED FIRELINE WILL BE CONNECTED TO THE EXISTING 12" ACP WATER MAIN IN SWEETWATER AVENUE. THE PROPOSED FIRELINE WILL BE CONSTRUCTED WITH 8" CL. 350 DIP WATER LINE PIPE. WITHIN THE RIGHT-OF-WAY AND 8" PVC C-900 WATER LINE ONSITE.

ONSITE FIRE HYDRANTS WILL BE PLACED IN ACCORDANCE WITH FIRE DEPARTMENT REQUIREMENTS.

THE CITY OF PHOENIX

CALL TWO WORKING DAYS BEFORE YOU DIG 602-263-1100

PLANNING & DEVELOPMENT DEPARTMENT

LEGEND PANEL POINT

UTILITY

ELECTRIC

IELEPHONE

NATURAL

GAS

CABLE TV

- PK/WASHER X CHISELED X SPIKE COTTON PICKER SPINDLE ALUMINUM CAP FLUSH
- ALUMINUM CAP IN HANDHOLE BRASS CAP FLUSH
- BRASS CAP IN HANDHOLE SUBDIVISION CORNER FOUND AS NOTED

CENTURY

SOUTHWES

COX COMM.

- ▲ CONTROL POINT NG NATURAL GRADE BLDG TOP OF BUILDING
- TBC TOP BACK OF CURB R/W RIGHT OF WAY PV ASPHALT
- GAS METER D/W ACCESS DRIVEWAY GAS PRESSURE REDUCER TOP TOP OF SLOPE **GAS MARKER** TOE TOE OF SLOPE ELECTRIC MANHOLE ELECTRICAL PULL BOX
- WIF WROUGHT IRON FENCE SW SIDEWALK ■ ELECTRIC METER PRPT TOP OF PARAPET WL TOP OF WALL CLF CHAIN LINK FENCE

VG VALLEY GUTTER

GAS VALVE

© GAS MANHOLE

AC AIR CONDITIONING UNIT

■ ELECTRIC EQUIPMENT ■ ELECTRIC SWITCH CMU CONCRETE MASONRY UNIT **CAB** ELECTRIC CABINET CS CONCRETE **EV** ELECTRIC VAULT MCR MARICOPA COUNTY RECORDER FO FIBER VAULT 1419.18 SPOT ELEVATION CAB FIBER CABINET FS FINISHED SURFACE FIBER MANHOLE EL ELEVATION

DATE SENT

0/24/2022

0/24/2022

0/24/2022

10/24/2022

- O POWER POLE EI ELECTRICAL TRANSFORMER ← DOWN GUY • ──X STREET LIGHT W/ MAST ARM **★** FIRE DEPT. CONNECTION WATER VALVE SANITARY SEWER MANHOLE WATER METER SANITARY SEWER CLEANOUT ■■■ BACKFLOW PREVENTER W WATER MANHOLE IRRIGATION CONTROL VALVE -√ BREAKLINE Ď TRAFFIC SIGNAL WITH MAST
- TRAFFIC SIGNAL PULL BOX TS TRAFFIC SIGNAL VAULT TELEPHONE MANHOLE □ TELEPHONE PULL BOX T TELEPHONE VAULT ■ TELEPHONE PEDESTAL ■ TELEVISION RISER
 - **STORM DRAIN GRATE** DRY WELL STORM CLEANOUT CATCH BASIN PALM TREE SAGUARO * CACTUS DECIDUOUS TREE CONIFEROUS TREE → SIGN → DOUBLE SIGN BOLLARD ◆ FLAG POLE CURB STOP 6. HANDICAP
- STORM MANHOLE PROPERTY LINE - - PROPERTY LINE (OTHER) RIGHT-OF-WAY LINE — — — EASEMENT LINE ______ _ _ _ _ LEASE LINE ---- CHAIN LINK FENCE — WOOD OR IRON FENCE * * * * * * * WIRE OR BARBED WIRE FENCE OHE——OHE——OVERHEAD ELECTRIC LINE — T — T — T — U/G TELECOMMUNICATION LINE ——TV——TV——TV—— UNDERGROUND TV LINE ——FO——FO——FO—— U/G FIBER OPTIC LINE ——GAS——GAS——U/G GAS LINE ----ss----ss----ss--- Sanitary sewer line STORM SEWER LINE

—— W—— W—— WATER LINE

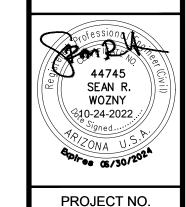
AS BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND

REGISTERED ENGINEER/LAND SURVEYOR

REGISTRATION NO.

DATE

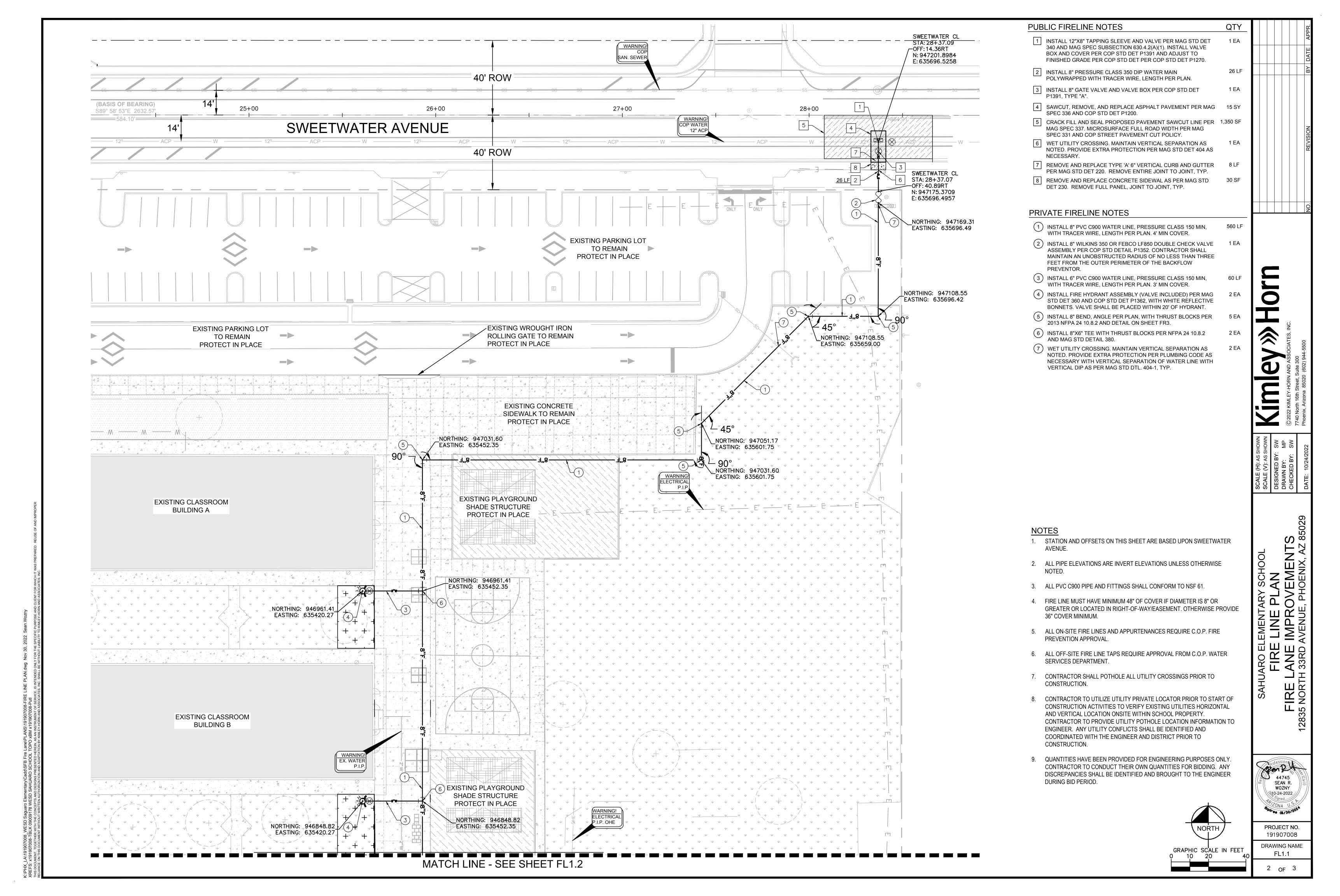


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. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

2. EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY. LOCATIONS SHOWN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. CALL BLUE STAKE FOR FIELD LOCATION AT (1-800-7825348).

3. THE DESIGN ENGINEER AND APPLICABLE AGENCY MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATIONS OR VARIANCE FROM THESE PLANS. ANY VARIATION FROM THESE PLANS SHALL BE PROPOSED ON A CONSTRUCTION FIELD PRINT SET AND TRANSMITTED TO THE ENGINEER.

4. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE PLAN SET SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

5. INSPECTIONS BY GOVERNMENT AGENCIES, UTILITIES, OR THE ENGINEER, SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND AGENCY REQUIREMENTS.

6. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.

7. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PERMITS REQUIRED AT HIS OWN EXPENSE.

8. THE CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT THE REVISION OF THESE PLANS IF NECESSARY DUE TO A CONFLICT BETWEEN A FACILITY PROPOSED HEREIN AND AN EXISTING FACILITY.

9. ANY POTENTIAL EXTRA CHARGES BY THE CONTRACTOR WILL BE BROUGHT TO THE ATTENTION OF THE OWNERS, OR THEIR REPRESENTATIVES, PRIOR TO THE OWNER INCURRING THE COST.

10. THE CONTRACTOR AGREES THAT HE, SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

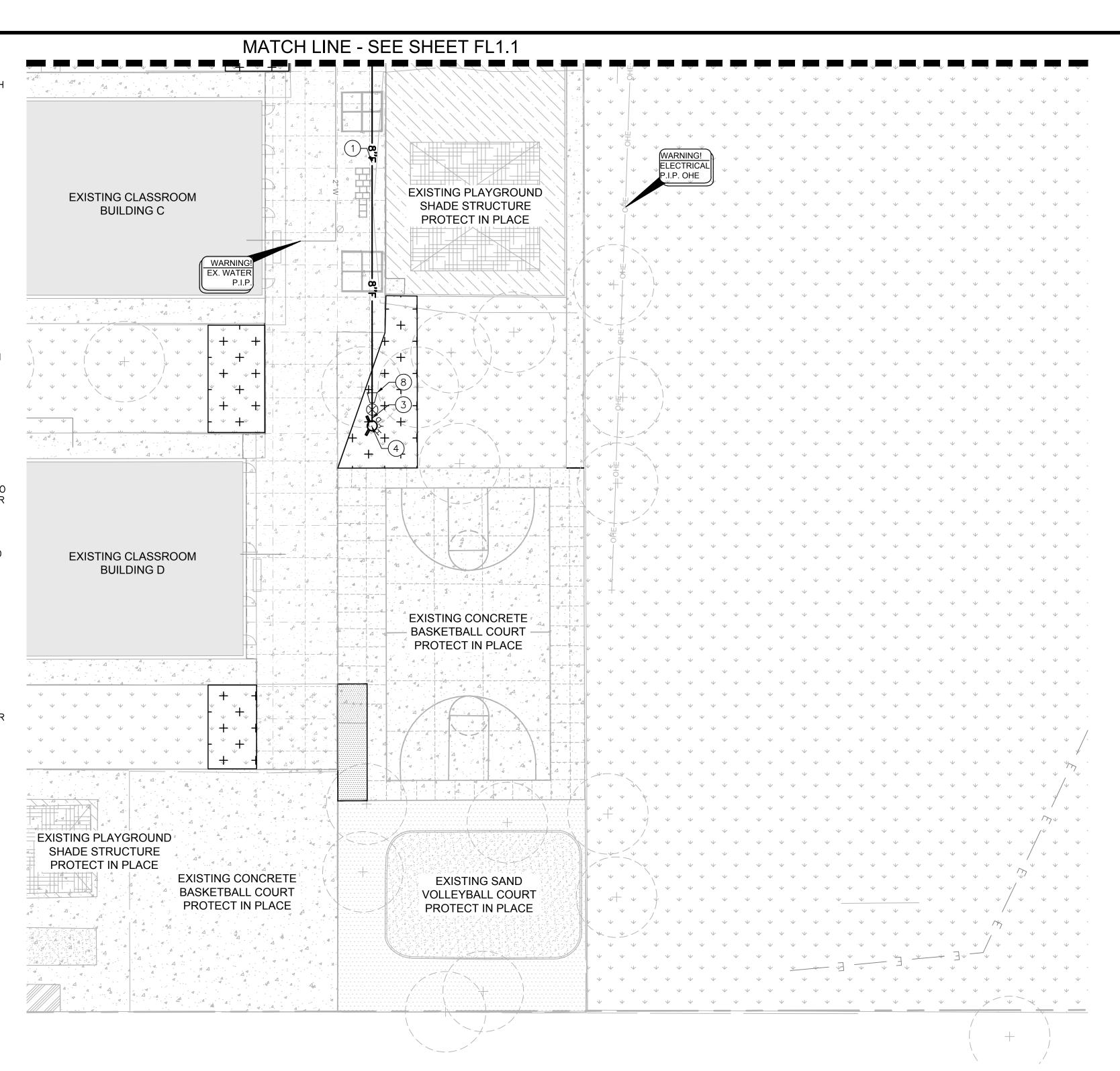
11. PRIOR TO FINAL APPROVAL AND ACCEPTANCE OF THE WORK THE CONTRACTOR WILL BE REQUIRED TO CLEAN AND REPAIR ADJACENT (OFF-SITE/PROJECT) ROADWAYS USED OR DAMAGED DURING THE COURSE OF CONSTRUCTION.

12. ALL WORK SHALL BE IN ACCORDANCE WITH CITY OF PHOENIX AND MARICOPA ASSOCIATION OF GOVERNMENT'S STANDARD SPECIFICATIONS AND DETAILS UNLESS OTHERWISE STATED ON THE PROJECT PLANS OR SPECIFICATIONS. SHOULD THESE DOCUMENTS CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN AS DETERMINED BY THE ENGINEER.

13. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE DRAINAGE AND EROSION & SEDIMENT CONTROL ON THE CONSTRUCTION SITE PER CITY, FEDERAL, STATE AND COUNTY REQUIREMENTS AND MAINTAINED FOR THE WHOLE DURATION OF THE PROJECT.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND RETAINING SYSTEMS. SYSTEMS SHALL BE DESIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER, WHO IS REGISTERED IN THE STATE OF ARIZONA. ALL DESIGNS SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVED PRIOR TO INSTALLATION.

15. ALL WORK SHALL BE IN ACCORDANCE WITH THE SOILS REPORT PREPARED BY RAMM ENGINEERING (PROJECT NO. G18334) DATED 01-20-2011. IN CASE OF DISCREPANCY WITH PLANS PLEASE CONTACT ÈNGINEER PRIOR TO SOF THESE PLANS IF NECESSARY DUE TO A CONFLICT BETWEEN A FACILITY PROPOSED HEREIN AND AN EXISTING FACILITY.



PRIVATE FIRELINE NOTES

(8) INSTALL 8"X6" REDUCER, TYP.

(1) INSTALL 8" PVC C900 WATER LINE, PRESSURE CLASS 150 MIN,

(3) INSTALL 6" PVC C900 WATER LINE, PRESSURE CLASS 150 MIN.

(4) INSTALL FIRE HYDRANT ASSEMBLY (VALVE INCLUDED) PER MAG

BONNETS. VALVE SHALL BE PLACED WITHIN 20' OF HYDRANT.

STD DET 360 AND COP STD DET P1362, WITH WHITE REFLECTIVE

WITH TRACER WIRE, LENGTH PER PLAN. 4' MIN COVER.

WITH TRACER WIRE, LENGTH PER PLAN. 3' MIN COVER.

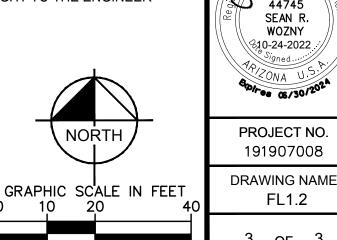
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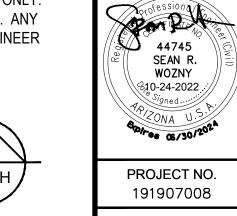
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- 1. STATION AND OFFSETS ON THIS SHEET ARE BASED UPON SWEETWATER
- 2. ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS UNLESS OTHERWISE
- ALL PVC C900 PIPE AND FITTINGS SHALL CONFORM TO NSF 61.
- 4. FIRE LINE MUST HAVE MINIMUM 48" OF COVER IF DIAMETER IS 8" OR GREATER OR LOCATED IN RIGHT-OF-WAY/EASEMENT. OTHERWISE PROVIDE 36" COVER MINIMUM.
- ALL ON-SITE FIRE LINES AND APPURTENANCES REQUIRE C.O.P. FIRE PREVENTION APPROVAL.
- 6. ALL OFF-SITE FIRE LINE TAPS REQUIRE APPROVAL FROM C.O.P. WATER SERVICES DEPARTMENT.
- 7. CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO UTILIZE UTILITY PRIVATE LOCATOR PRIOR TO START OF CONSTRUCTION ACTIVITIES TO VERIFY EXISTING UTILITIES HORIZONTAL AND VERTICAL LOCATION ONSITE WITHIN SCHOOL PROPERTY. CONTRACTOR TO PROVIDE UTILITY POTHOLE LOCATION INFORMATION TO ENGINEER. ANY UTILITY CONFLICTS SHALL BE IDENTIFIED AND COORDINATED WITH THE ENGINEER AND DISTRICT PRIOR TO CONSTRUCTION.
- DURING BID PERIOD.



- QUANTITIES HAVE BEEN PROVIDED FOR ENGINEERING PURPOSES ONLY. CONTRACTOR TO CONDUCT THEIR OWN QUANTITIES FOR BIDDING. ANY DISCREPANCIES SHALL BE IDENTIFIED AND BROUGHT TO THE ENGINEER



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UNDERGROUND UTILITY NOTES

1. A REASONABLE ATTEMPT HAS BEEN MADE TO SHOW THE LOCATIONS OF ALL UNDERGROUND OBSTRUCTIONS AND UTILITY LINES IN THE WORK AREA. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OBSTRUCTIONS AND UTILITY LINES ENCOUNTERED DURING CONSTRUCTION AND SHALL DETERMINE THE EXACT LOCATION OF UTILITIES

AND MAKE THE ENGINEER AWARE, IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL FIELD-VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF ACTUAL LOCATIONS DIFFER FROM

THOSE SHOWN ON THE PLANS. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE ANY

CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR SUBCONTRACTOR. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS, UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

ALL EXISTING ELEVATIONS OF UTILITIES, SURVEY MONUMENTS, NATURAL GRADE, AND ALL EXISTING IMPROVEMENTS WERE PROVIDED TO THE ENGINEER BY AN INDEPENDENT REGISTERED SURVEYOR (SURVEY INNOVATION GROUP, INC.). THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ERRORS IN SURVEY INFORMATION THAT WAS PROVIDED BY THE INDEPENDENT REGISTERED SURVEYOR.