

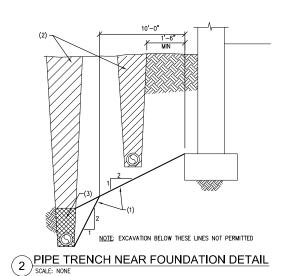
1 OF 1
SABINO H.S.
DOMESTIC WATER PIPE

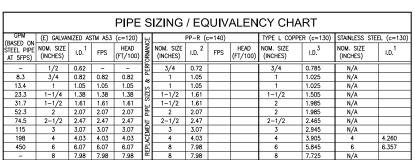
SITE PIPING GENERAL NOTES

- PROVIDE THRUST BLOCKS AT CHANGES IN DIRECTION, AT BRANCH FITTINGS, AT PROVIDE INTRODUCTIONS, AND AS REQUIRED BY THE PIPING MANUFACTURER'S INSTALLATION GUIDELINES. PROVIDE MORE STRINGENT OF TUCSON WATER STANDARD DETAILS OR MANUFACTURER REQUIREMENTS.
- INSTALL EXPANSION LOOPS WHERE REQUIRED BY MANUFACTURER.
- i. ABOVE GROUND VALVES ARE PREFERRED TO DIRECT BURY VALVES. ABOVE GROUND VALVES EXPOSED IN PUBLIC AREAS SHALL BE PROTECTED FROM VANDALISM & HAVE PROVISIONS FOR LOCKING. COORDINATE WITH TUSD.
- . In addition to as—built location for the New Work, field verify location of existing water main and document off corners of buildings in as—builts.

SITE DEMOLITION NOTES

- . THE PARTIAL DEPICTION OF EXISTING UTILITIES ON THIS DRAWING IS BASED SOLELY UPON SITE OBSERVATIONS AND EXISTING DRAWING INFORMATION BY TUSD. THE DEPICTION IS NOT INTENDED TO REPRESENT AN ACCURATE AND COMPLETE MAPPING OF ALL UNDERGROUND UTILITIES. THIS DRAWING IS ONLY INTENDED TO ASSIST THE CONTRACTOR IN UNDERSTANDIOR THE SCOPE OF THE WATERLINE REPLACEMENT PROJECT AND IS NOT INTENDED TO BE A COMPLETE AND/OR ACCURATE SURVEY OF THE UNDERGROUND SITE UTILITIES.
- 2. To the extent possible and as required by the state of Arizona, the contractor shall verify underground utility locations by Using Arizona blue stake and any other utility locating means available prior to digging.
- 3. UNDERGROUND UTILITIES, WHETHER DEPICTED OR NOT, WILL MOST LIKELY BE ENCOUNTERED DURING THIS WORK. IF "ACTIVE" WATER, IRRICATION, SANTIARY SEWER, ELECTRIC, CAS, OR TELECOM ARE DAMAGED DURING THE EXCAVATION PORTION OF THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT TUSD AND THE UTILITY PROVIDER AND MAKE NECESSARY EMERGENCY REPAIRS TO THE UTILITY, EXCEPT FOR GAS WHICH SHALL BE COORDINATED WITH SW GAS.
- ALL REPAIRS TO UNDERGROUND UTILITIES THAT WERE PROPERLY LOCATED & IDENTIFIED BY THE UTILITY LOCATOR SHALL BE PERFORMED BY THIS CONTRACTOR AT NO COST TO THE OWNER.
- DEMOLITION OF EXISTING UNDERGROUND WATER DISTRIBUTION PIPING SHALL INVOLVE REMOVAL OF PIPING WHERE NECESSARY TO PROVIDE SPACE FOR NEW PIPING AND/OR COMNECTIONS. OTHERWISE, IT IS A SSUMED THAT THE EXISTING UNDERGROUND WATER DISTRIBUTION PIPING WILL BE ABANDONED IN PLACE.
- SAWCUT AND REPAIR ASPHALT, CONCRETE, BRICKS, ETC. AS NECESSARY TO PROVIDE SUFFICIENT WORK SPACE FOR EXCAVATION AND INSTALLATION OF NEW WORK. ALSO SEE SPECIFICATIONS.





- PP—R GENERAL PIPE SUPPORT NOTES:

 1. PP—R PIPING MAY REQUIRE ADDITIONAL SUPPORTS TO THE EXISTING COMDITION. FILED VERIFY AND COORDINATE WITH MANUFACTURER. AQUATHERIN (BASIS OF DESIGN) DATA PROVIDED HEREIN. ALTERNATE MANUFACTURERS SHALL PROVIDE SIMILAR DATA PRIOR TO CONSTRUCTION.

 2. PER AQUATHERIN. SUPPORTS ARE REQUIRED AS FOLLOWS:

 2.1. ½" AND ½" PIPING: 4.0 FT.

 2.2. 1" PIPING: 4.0 FT.

 2.3. 1½" PIPING: 4.4 FT.

 2.4. 1½" PIPING: 4.4 FT.

 2.5. 2" PIPING: 4.4 FT.

 2.6. 3" PIPING: 4.5 FT.

 2.9. 8" PIPING: 8.7 FT.

 2.9. 8" PIPING: 8.2 FT.

 3. PER AQUATHERIN. SUPPONISION & CONTRACTION SHALL BE LIMITED TO 1" MOVEMENT.

 3.1. PROVIDE ANCHORS AT EVERY 25 FT. OF STRAIGHT RUNS.

 3.2. ANCHOR LOCATIONS MAY ALSO BE USED AS A SUPPORT INTERVAL.

 3.3. ANCHORS SHALL BE SUPPORTED TO STRUCTURE PER MFRG RECOMMENDATIONS.

 3.4. ANCHORS LOCATED IN TUNNELS SHALL REQUIRE ADDITIONAL UNISTRUT SUPPORT ASSEMBLES COORDINATE LOCATION AND CONFIGURATIONS WITH (E)PIPE SUPPORTS.

 3.5. ON PIPING SUPPORTED BY OVERHEAD, PROVIDE ADDITIONAL CLEVIS SUPPORTS AT EACH ANCHOR LOCATION.

 4. PER AQUATHERM, ADDITIONAL "SUPPORT CHANNEL" BELOW PIPE MAY BE USED TO ALLOW RE—USE OF EXISTING SUPPORTS IN SOME CASES. REFER TO SPECS. FOOTNOTES:

 1. ID = INNER DIAMETER PER ENGINE
 2. ID LISTED IS PER AQUATHERM. ¾"
 3. D LISTED IS THE COPPER TUBE HA
 - NOTES: A. PIPE SIZES SHOWN ON DRAWINGS

SIZE.

B. TABLE CREATED USING HAZEN-WILL EXCEED 5.5 FPS.

C. ALTERNATE PP-R PIPING MANUFACT ABOVE IN 'B'.

	confirm replacement of asphalt this area.	AR ZONASII
	add curb this area - confirm start and stop	Call 811 or eliek Artzonas11.co
	points	
TAMESON TO THE PROPERTY OF THE		
	STORAGE STORAGE	
Daving ma Secretary management of the secretary management		
The state of the s	Kitchen has its own fire line with its own	
STORE STORE CLASSICOL MAT CLASSICOL	protection protection	
Will this be to flow location		
	part of this will be	
CLESSON CLESSO	replaced with concrete dumpster	
	Man Existing Irrigation Line	
Existing fire line	(contains asbestos concrete piping)	
	Hallway ceiling is	
Route to run fire line will be needed.	hard lid (contains asbestos)	
existing line is going through cement		otes from interior walk
	hallway Budget removal and - Any C	copper lines will stay
	replace ceiling for work above: abatement existing	g, RG will connect lines.
	make safe electrical	alvoo will be replaced/
	remove and reinstall electrical new celling - lay in	alves will be replaced/ more valves as needed
	electrical new ceiling - lay in adding	more valves as needed
AUDITORIA DE LA CONTROL DE LA		nany sprinkler do each
ADTORNA	(E) 6" CW UG	un? What is the density?
	MANAGE PRINCIPAL	
TORSO OF THE TORSO	- What	is the proposed size of
	pipe fo	r the Fire Line?
	OCS - fire wa	
	(E) 6 CW 06	ater distribution scope alling a new fire service line in the tunnels to supply
	the existing fi	
TSOME TO BRANAGE SWALE	ORANAGE SWALE——\$\vec{\xi} \vec{\xi}	ng concrete walls in tunnel. I valves, and accessories
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hydrostatic • Hydrostatic	k to be done regular hours Monday-Saturday pressure test to AHJ.
		olans to AHJ in the area. De for future references.
		er shop drawings and permits.
PIPE SIZING / EQUIVALENCY CHART ZED ASTM A53 (c=120) PP-R (c=140) TYPE L COPPER (c=130) STAINLESS STEEL (c=130)	(E) 6" CW UG	
PP-R (c=140) TYPE L COPPER (c=130) STAINLESS STEEL (c=130) TYPE L COPPER (c=130) TYPE		
0.62 E 3/4 0.72 3/4 0.785 N/A		
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1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50		
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. W." PP-R PRING IS SOR-7-4, PIPING 1" AND LARGER IS SOR-11. ENABBOOK (AND IS BB). NGS ARE INTENDED TO REPRESENT THE EXISTING SIZES, FIELD VERIFY. REPLACEMENT PIPING SHALL UTILIZE THIS CHART TO DETERMINE THE REPLACEMENT PIPE		
-WILLIAMS FORMULA TO FIND HEAD VALUES FOR ALTERNATE PIPES THAT DO NOT EXCEED THAT LISTED FOR GALWANZED STEEL AND VELOCITIES WHICH DO NOT NOT UFACTURERS SHALL USE HAZEN-WILLIAMS FORMULA TO CALCULATE MISSING PERFORMANCE DATA IN THE TABLE ABOVE FOR APPROVAL. COMPLY WITH RULES NOTED		
	1 OVERALL PIPING PLAN	SARIMO H S

85749 WATER ACEMENT SCHOOL DOMESTIC V PIPE REPLAC SABINO HIGH Road, Bowes 5000 N.

SEAL:



7337 E. TANQUE VERDE RD.
TUCSON, ARIZONA 85715
(520) 887.1919 FAX (520) 996.0280
WWW.KWMECH.COM
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REVISIONS:

KWA PROJECT NO: DATE: MARCH 17, 2021 DRAWN BY: JBR DESIGNED BY:

DEK

OVERALL BASEMENT PIPING PLAN

CHECKED BY:

SHEET

P0.1

4 OF 12 SABINO H.S. REPLACEMENT

DOMESTIC WATER PIPE REPLACEMENT

SEAL:

KELLY WRIGHT ASSOCIATES - PC HVAC-PLUMBING-FIRE PROTECTION 7337 E. TANQUE VERDE RD.
TUCSON, ARIZONA 85715
(\$20) 887.1919 FAX (\$20) 996.0290
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REVISIONS:

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DRAWN BY: DESIGNED BY: JBR CHECKED BY: DEK

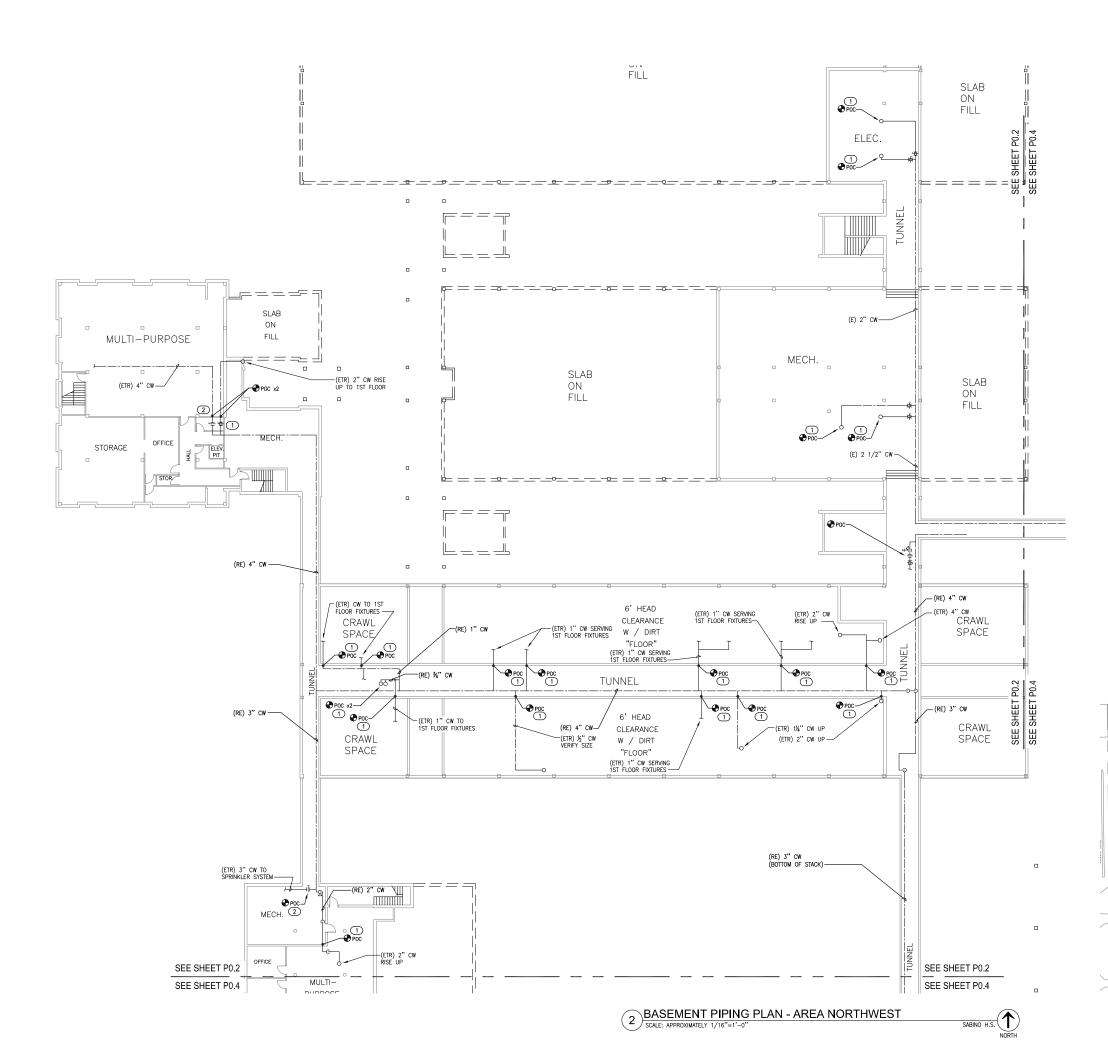
SHEET CONTENTS: BLDG. G BASEMENT PIPING FLOOR PLAN

SHEET

SABINO H.S.

1 KEYPLAN
SCALE: NONE

5 OF 12 SABINO H.S. DOMESTIC WATER PIPE REPLACEMENT



GENERAL PLAN NOTES:

PROVIDE MECHANICAL LINK SEAL FOR ALL FLOOR PENETRATIONS THRU FLOOR ABOVE (ALL ARE WITHIN WET AREAS).

ALL PIPING SHOWN, THAT CONTINUES TO FLOOR ABOVE IS COPPER U.N.O.
INSTALL PARALLEL REPLACEMENT PIPE IN TUNNELS WHERE POSSIBLE TO COMPLY WITH PHASING REQUIREMENTS — REFER TO SHEET G.1.1.

GENERAL CEILING NOTES:

MATCH EXISTING HEIGHTS — FIELD VERIFY,
CEILING TYPES INDICATED ARE PROVIDED FOR REFERENCE AND MUST
BE VERIFIED. VERIFY ASSEMBLY CONSTRUCTION.
REPAIR / REPLACE ALL CEILINGS WITHIN AREAS OF WORK AS REQUIRED.
PROVIDE FRAMING AS REQUIRED TO INSTALL ACCESS PANELS.
REFER TO SPEC #16 ON PO.1 FOR ADDITIONAL REQUIREMENTS.
NEW WORD MAY BE INSTALLED REJIOW THE (FOLIC AMOUNT FAILED.)

NEW WORK MAY BE INSTALLED BELOW THE (E)CLG AND CONCEALED WITHIN A NEWLY CONSTRUCTED SOFTI. VANDAL RESISTANT CONSTRUCTION, PAINTED TO MATCH EXISTING; COMPLETE WITH ACCESS TO VALVES. ALL PIPING SHALL BE CONCEALED. PROVIDE SOFTI LOCATION PLAN FOR TUSD APPROVAL PROT TO WORK.

PIPE SIZING NOTES:
PIPE SIZES SHOWN ON PLAN REPRESENT THE EXISTING SIZES, REFER
TO SHEET P1.1 FOR NEW WORK PIPE SIZES TO REPLACE THOSE NOTED
ON THIS SHEET.

PIPE REPLACEMENT PLAN KEYNOTES:

REPLACE BASEMENT / TUNNEL CW PIPE TO POINT OF CONNECTION

REPLACE BASEMENT / TUNNEL CW PIPE TO POINT OF CONNECTION WITH (E) COPPER BRANCH SEGMENT.

1. PROWIDE FULL LINE SIZE SOV AT TAP TO MAIN.

12. DEMO (E) SOV IF ONE EXISTS.

1. FIELD VERIFY MATERIAL, EXACT SIZE AND LOCATION. SEE EQUIVALENT PIPE SIZING NOTES FOR CONVERSIONS.

1. PROVIDE UNION OR MATINO FLANCE DOWNSTREAM OF VALVE AT CONNECTION TO (E) COPPER BRANCH MATERIAL. PROVIDE DIELECTRIC TYPE WHERE APPLICABLE FOR ELECTRICITYSES PROTECTION.

REPLACE BASEMENT / TUNNEL CW PIPE TO A POINT OF CONNECTION WITH (E) CW BLACK STEEL PIPE.

2.1. PROVIDE FULL LINE SIZE SOV AT TAP TO MAIN.

2.2. DEMO (E) SOV IF ONE EXISTS.

2.3. FIELD VERIFY MATERIAL, EXACT SIZE AND LOCATION. SEE EQUIVALENT PIPE SIZING NOTES FOR CONVERSIONS.

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1.1. PROVIDE FULL LINE SIZE SOV AT TAP TO MAIN.

1.2. DEMO (E) SOV IF ONE EXISTS.

1.3. FIELD VERIFY MATERIAL, EXACT SIZE AND LOCATION. SEE EQUIVALENT PIPE SIZING NOTES FOR CONMERSIONS.

1.4. PROVIDE LINION OR MATING FLANGE DOWNSTREAM OF VALVE AT CONNECTION TO (E) COPPER BRANCH MATERIAL PROVIDE DIELECTRIC TYPE WHERE APPLICABLE FOR ELECTROLYSES PROTECTION.

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2.3. FIELD VERIFY MATERIAL, EXACT SIZE AND LOCATION. SEE EQUIVALENT PIPE SIZING NOTES FOR CONNECTION.

KELLY WRIGHT ASSOCIATES PC

SEAL:

SABINO HIGH SCHOOL 5000 N. Bowes Road, Tucson, AZ 85749

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WWW.KVMECH.COM
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REVISIONS: Æ

KWA PROJECT NO: DATE: MARCH 17, 2021 DRAWN BY: DESIGNED BY: JBR CHECKED BY: DEK

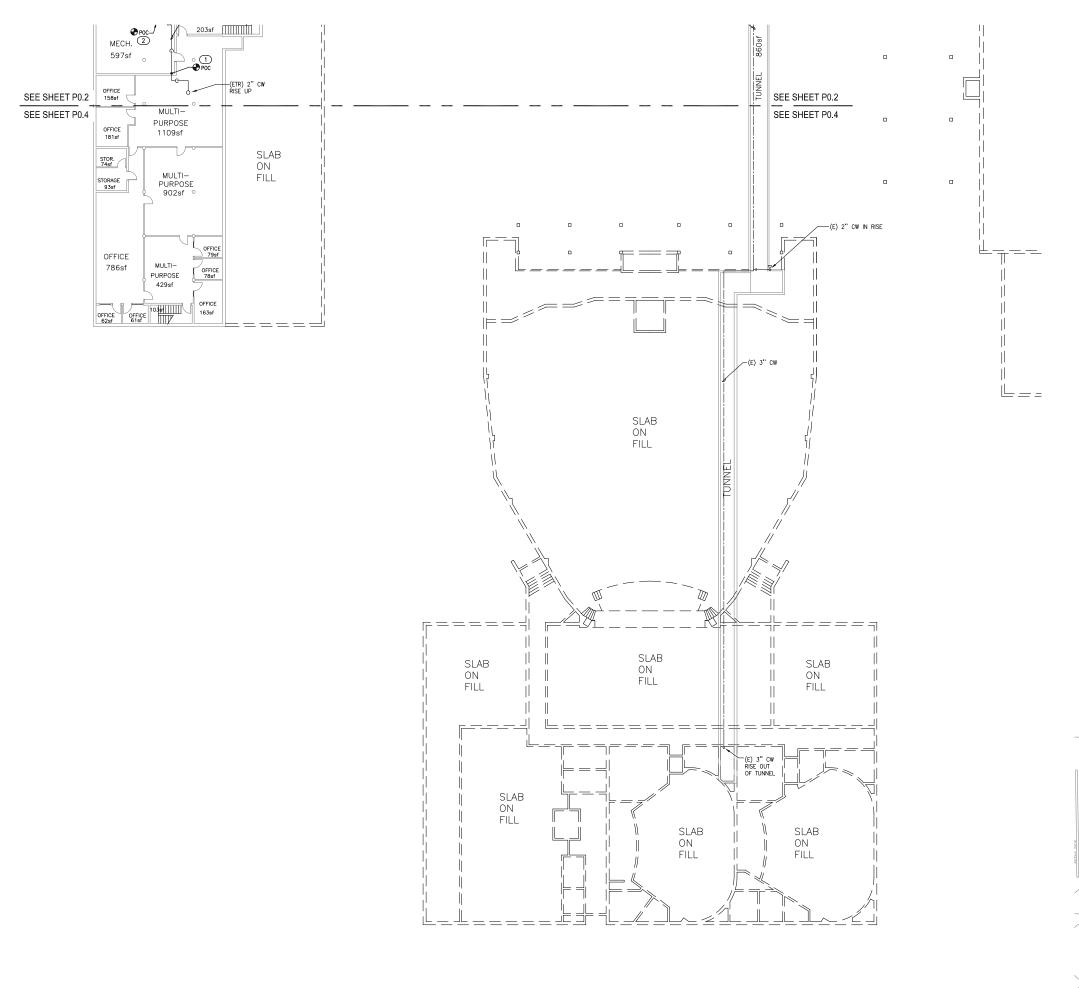
SHEET CONTENTS:

SABINO H.S.

BLDG. B3, 300 WING BASEMENT PIPING FLOOR PLAN

SHEET

6 OF 12
SABINO H.S.
DOMESTIC WATER PIPE REPLACEMENT



2 BASEMENT PIPING FLOOR PLAN - AREA SOUTH SCALE: APPROXIMATELY 1/16"=1"-0"

1 KEYPLAN
SCALE: NONE

SEAL:

Contact Artzona C11 at least two full working days before you begin excevedion

KELLY **O**WRIGHT ASSOCIATES PC

5000 N.

7337 E. TANQUE VERDE RD.
TUCSON, ARIZONA 85715
(520) 887.1919 FAX (520) 996.0280
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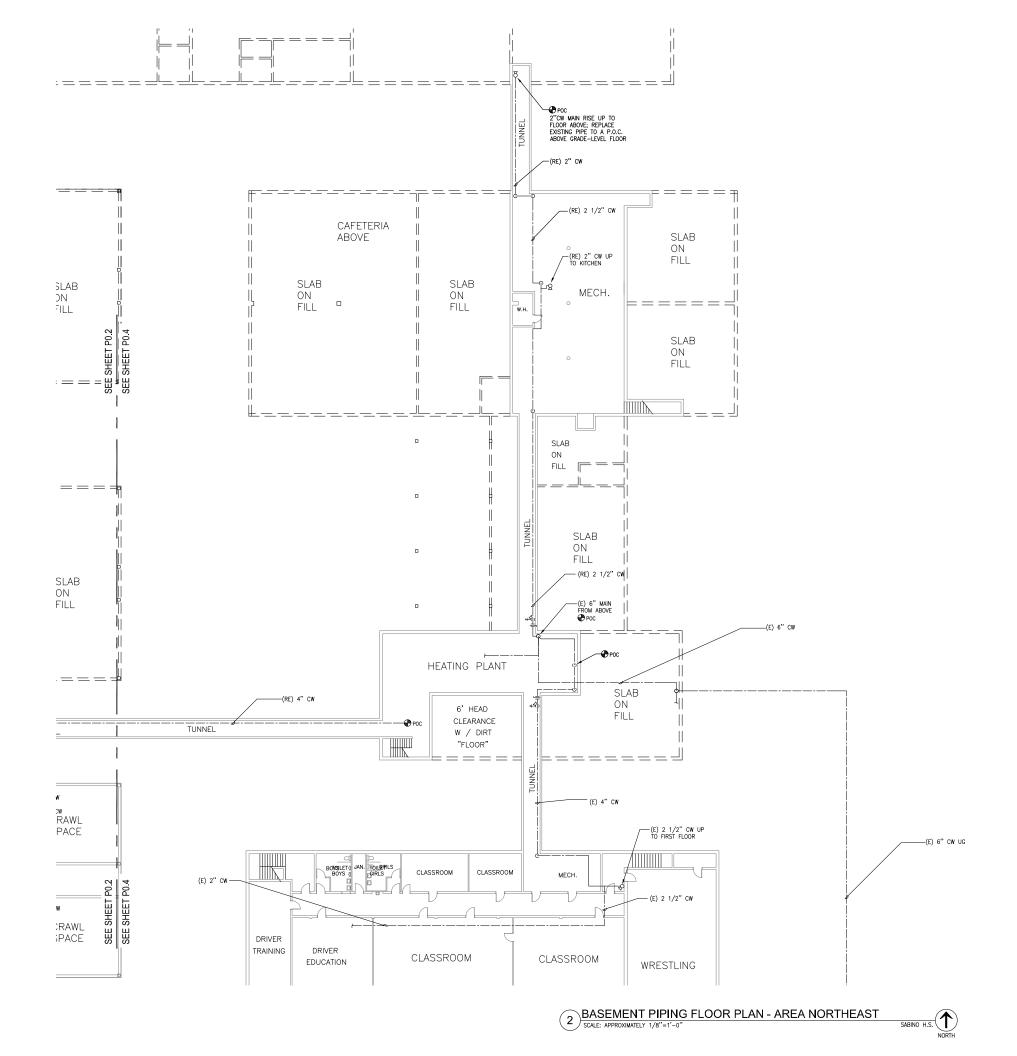
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SHEET CONTENTS: BLDG. G BASEMENT PIPING FLOOR PLAN

SHEET

5 OF 12 SABINO H.S. DOMESTIC WATER PIPE REPLACEMENT



1 KEYPLAN SCALE: NONE SABINO H.S.

PIPE REPLACEMENT PLAN KEYNOTES:

. REPLACE BASEMENT / TUNNEL CW PIPE TO POINT OF CONNECTION WITH (E) COPPER BRANCH SEGMENT.

1.1. PROVIDE FULL LINE SIZE SOV AT TAP TO MAIN.

12. DEMO (E) SOV IF ONE EXISTS.

13. FIELD VERIFY MATERIAL, EXACT SIZE AND LOCATION. SEE EQUIVALENT PIPE SIZING NOTES FOR CONVERSIONS.

14. PROVIDE DINION OR MATING FLANGE DOWNSTREAM OF VALVE AT CONNECTION TO (E) COPPER BRANCH MATERIAL. PROVIDE DIELECTRIC TYPE WHERE APPLICABLE FOR ELECTRICITYSES PROTECTION.

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