MAYOR KEVIN HARTKE

VICE MAYOR CHRISTINE ELLIS

COUNCIL

OD HARRIS MATT ORLANDO ANGEL ENCINAS JANE POSTON JENNIFER HAWKINS

CITY OF CHANDLER, ARIZONA RECLAIMED WATER PIPE EXTENSION PROJECT



GERMANN ROAD AND HAMILTON STREET PROJECT NO. WW2206.404

JANUARY 2025

VICINITY MAP

SHEET INDEX

	· · · · · ·	
SHEET	GENER	RAL
1 2 3 4 5 6	G-1 G-2 G-3 G-4 G-5 G-6	COVER SHEET GENERAL NOTES 1 GENERAL NOTES 2 LEGEND, SYMBOLS AND ABBREVIATIONS KEY MAP SURVEY CONTROL MAP
	<u>CIVIL</u>	
7 8	C-1 C-2	PLAN AND PROFILE 1 ISOLATION VALVE DETAIL
	<u>MECHA</u>	ANICAL

UTILITY NAME	CONTACT NAME	DATE SUBMITTED
SRP	CHRISTY BALTRUS	11/04/2024
CENTURYLINK	KEVIN WAGNER	11/04/2024
COX	JEFF KRAUSE	11/04/2024
SWG	GENE FLOREZ	9/13/2024
VERIZON	RYAN KANN	11/04/2024

MISCELLANEOUS DETAILS

BENCHMARK:

THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON CITY OF CHANDLER BENCHMARK 40A, A CITY OF CHANDLER BRASS CAP IN HAND HOLE AT THE INTERSECTION OF TUMBLEWEED PARK ROAD AND PIONEER PARKWAY, 1300' SOUTH OF GERMANN ROAD AND 700' WEST OF McQUEEN ROAD HAVING AN ELEVATION OF 1224.41, NAVD88

HORIZONTAL DATUM AND ADJUSTMENT:

NAD83(EPOCH 2010), ARIZONA STATE PLAN COORDINATE SYSTEM, CENTRAL ZONE, COMBINED SCALE FACTOR(CSF)= $\frac{1.0001529671}{1.0001529671}$ (GRID TO GROUND)

DATE: JANUARY 2025

VERTICAL DATUM:

CITY OF CHANDLER NAVD88

REV. DATE DRWN CHKD REMARKS

CITY OF CHANDLER **PUBLIC WORKS &** UTILITIES DEPARTMENT

215 EAST BUFFALO STREET CHANDLER, AZ 85225 PHONE NO. (480) 782 - 3000

THIS PROJECT

GERMANN RD.

HAMILTON ST. AND

WILSON **ENGINEERS**

-Western Canal

Elliot Rd.

-Warner Rd

Ray Rd.

Pecos Rd.

+Ocotillo Rd.

Riggs Rd

Hunt Highway

Germann Rd.

-Queen Creek Rd.

Chandler Heights Rd.

Chandler Blvd.

1620 W. FOUNTAINHEAD PKWY, SUITE 501 TEMPE, ARIZONA 85282 PHONE: (480) 893-8860 ALAN PALMQUIST ALAN.PALMQUIST@WILSON-ENGINEERS.COM

APPROVED:

DATE PUBLIC WORKS & UTILITIES DIRECTOR DATE CITY ENGINEER:5 DATE 11/20/2024 (RWR-24-00016) SERVICE DEPARTMENT

AS-BUILT CERTIFICATION:

I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION AS SHOWN HEREON WAS MADE UNDER MY SUPERVISION, OR AS NOTED, AND IS CORRECT TO THE BEST OF MY **KNOWLEDGE AND BELIEF.**

REGISTERED LAND SURVEYOR PRINTED NAME FIRM NAME

EXPIRATION DATE REGISTRATION NO.

I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN HEREON SATISFIES THE INTENT OF THE DESIGN.

REGISTERED CIVIL ENGINEER FIRM NAME

REGISTRATION NO:

REGISTRATION NO.

EXPIRATION DATE

C.O.C. LOG NO. CIV24-0125

DATE

DATE

GENERAL NOTES:

- 1. ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH THE MOST CURRENT ADOPTED MAG SPECIFICATIONS AND STANDARD DETAILS AS SUPPLEMENTED BY THE CITY OF CHANDLER.
- 2. THE CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- 3. THE DEVELOPMENT ENGINEERING OFFICE MUST BE NOTIFIED 24 HOURS PRIOR TO STARTING EACH PHASE OF CONSTRUCTION (480-782-3300).
- 4. PROJECT ELEVATIONS ARE BASED UPON NAVD 88 DATUM. THE FOLLOWING BENCHMARK WAS UTILIZED:

- T-12-25.						
BENCHMARK NUMBER	NGVD 29 ELEVATION	DESCRIPTION		NAVD 88 ELEVATION		
40A	1222.715	VATION				

- 5. PRIOR TO ANY CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR/DEVELOPER MUST NOTIFY THE LANDSCAPE MAINTENANCE AND DESIGN COORDINATOR AT 480-782-3428. ANY CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE RESTORED TO ORIGINAL CONDITIONS USING THE FOLLOWING REQUIREMENTS:
- A. ALL LANDSCAPE IMPACTED BY CONSTRUCTION MUST BE REPLACED IN KIND AND SIZE, OR AS DETERMINED BY THE CITY;
- B. ALL IRRIGATION SYSTEMS MUST BE RESTORED TO FULLY FUNCTIONING STATUS. ANY IRRIGATION LOCATED BENEATH ASPHALT OR CONCRETE MUST BE SLEEVED WITH SCHEDULE 40 PVC TWO NOMINAL SIZES LARGER;
- C. THE AREA OF CONSTRUCTION MUST BE TREATED WITH PRE-EMERGENT HERBICIDE (I.E. SURFLAN);
- D. GRANITE OF A SIZE AND COLOR TO MATCH EXISTING MUST BE SPREAD A MINIMUM OF TWO INCHES THICK;
- E. THE STREETS DIVISION MUST BE CONTACTED TO INSPECT ALL WORK BEFORE A CONDITIONAL ACCEPTANCE IS ISSUED;
- F. THE CONTRACTOR/DEVELOPER MUST MAINTAIN THE AREA FOR NINETY DAYS AFTER CONDITIONAL ACCEPTANCE. AFTER 90 DAYS THE CITY MUST BE CONTACTED FOR FINAL ACCEPTANCE AND ASSUMPTION OF MAINTENANCE.
- 6. WORK PERFORMED BY THE CONTRACTOR:
- A. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY ENGINEER AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- B. WHENEVER THE INSPECTOR FINDS ANY WORK BEING PERFORMED IN A DANGEROUS OR UNSAFE MANNER, OR CONTRARY TO THE PLANS OR SPECIFICATIONS, OR NOT MEETING THE INTENT OF THE PLANS OR SPECIFICATIONS, THE INSPECTOR WILL ISSUE A STOP WORK ORDER. UPON ISSUANCE OF A STOP ORDER, THE CITED WORK MUST IMMEDIATELY CEASE. THE STOP WORK ORDER MUST STATE THE REASON FOR THE ORDER, AND THE CONDITIONS WHICH CITED WORK IS AUTHORIZED TO RESUME UPON WRITTEN ORDER TO RESUME WORK. WHERE AN EMERGENCY EXISTS, THE INSPECTOR MUST NOT BE REQUIRED TO GIVE A WRITTEN NOTICE PRIOR TO STOPPING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS AND DELAYS FOR THE WORK RELATED TO THE STOP WORK ORDER.
- 7. THE CONTRACTOR MUST UNCOVER ALL EXISTING CITY UTILITY LINES BEING TIED INTO TO VERIFY THEIR TYPE, CONDITION, LOCATION, INVERT, SLOPE AND ANY OTHER INFORMATION NEEDED TO DETERMINE THAT THE UTILITY CONNECTION WILL FUNCTION AS DESIGNED. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ANY REPAIRS NECESSARY TO THE LATERAL OR MAIN LINES OF THE CITY WATER, RECLAIMED WATER, SANITARY SEWER, AND/OR STORM DRAIN SYSTEM NECESSARY FOR THE CONNECTION TO FUNCTION AS DESIGNED. THE CONTRACTOR MUST LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND PRIVATE UTILITIES (ELECTRIC, TELEPHONE, PIPELINES, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND MUST ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION. BLUE STAKE TELEPHONE (602) 263—1100.
- 8. THE CITY OF CHANDLER IS NOT RESPONSIBLE FOR LIABILITY INCURRED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.
- 9. NO FINAL ACCEPTANCE MUST BE ISSUED UNTIL 4 MIL PHOTO MYLAR REPRODUCIBLE "AS-BUILT" PLANS CERTIFIED AND SEALED BY A REGISTERED CIVIL ENGINEER, HAVE BEEN SUBMITTED AND ACCEPTED BY THE CITY ENGINEER.
- 10. APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. ALL PAVEMENT REPLACEMENT MUST BE IN ACCORDANCE WITH SECTION 336 AND AS MODIFIED BY CITY SUPPLEMENTS.
- 11. BACKFILLING MUST NOT BE STARTED UNTIL LINES ARE APPROVED BY THE CITY ENGINEER. ALL BACKFILL MUST BE HALF-SACK CLSM UNLESS OTHERWISE APPROVED ON THE PLANS. ABC OR NATIVE MATERIAL MUST BE INSTALLED IN ACCORDANCE WITH MAG SECTION 601, TYPE I. BACKFILL PLACEMENT AND SURFACE REPLACEMENT MUST BE IN ACCORDANCE WITH MAG STD DTL 200 T-TOP.
- 12. CONSTRUCTION OF CONCRETE OR PAVING ITEMS MUST NOT COMMENCE UNTIL ALL UNDERGROUND WORK HAS BEEN INSPECTED AND TESTED.
- 13. DISPOSAL OF AND STOCKPILING OF EXCESS MATERIAL WITHIN THE CHANDLER CITY LIMITS OR PLANNING AREA MUST BE DONE IN SUCH A WAY THAT WILL NOT CREATE A NUISANCE. THE PLACING OF MATERIAL ON PRIVATE PROPERTY OF ANOTHER REQUIRES WRITTEN AUTHORIZATION. EARTHWORK STOCKPILES ARE NOT TO EXCEED 6 FEET IN HEIGHT. SLOPES ON ALL SIDES OF THE STOCKPILE MUST NOT EXCEED A 1 TO 2 RATIO OF HEIGHT TO LENGTH. ANY EARTHWORK STOCKPILE, EVEN LESS THAN 6 FEET, MUST BE REMOVED WITHIN 7 DAYS OF CITY NOTIFICATION IF DUST SUPPRESSION EFFORTS FAIL TO MAINTAIN SATISFACTORY AIRBORNE CONTAMINANT CONTROL.
- 14. TRAFFIC CONTROL MUST BE MAINTAINED IN ACCORDANCE WITH THE CHANDLER TRAFFIC BARRICADE DESIGN REQUIREMENTS AND APPROVED TRAFFIC SEQUENCING PLANS AND/OR NOTES.
- 15. THE CONTRACTOR MUST PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST—FREE CONDITION AT ALL TIMES THE CONTRACTOR MUST UTILIZE A PM10—CERTIFIED STREET SWEEPER FOR STREET CLEANING
- 16. AN APPROVED SET OF PLANS MUST BE MAINTAINED ON THE JOB SITE AT ALL TIMES THAT WORK IS IN PROGRESS. DEVIATION FROM THE PLANS WILL NOT BE ALLOWED WITHOUT AN APPROVED PLAN REVISION.

GENERAL NOTES (CONT):

- 17. A MINIMUM HORIZONTAL SEPARATION OF SIX (6) FEET IS REQUIRED BETWEEN SEWER SERVICES AND WATER OR FIRELINE SERVICES. A MINIMUM HORIZONTAL SEPARATION OF SIX (6) FEET IS REQUIRED BETWEEN RECLAIMED WATER SERVICES AND SEWER, WATER, OR FIRELINE SERVICES.
- 18. SETBACKS FOR UTILITY POLES, STRUCTURES, AND OTHER SIMILAR FACILITIES (NOT INCLUDING LANDSCAPING) GREATER THAN 18 INCHES IN HEIGHT is 5.5 FEET FROM THE BACK OF CURB UNLESS APPROVED IN WRITING BY THE CITY ENGINEER. IN CASES WHERE THE FACILITIES ARE ADJACENT TO A DECELERATION LANE, BUS BAY, OR MEDIAN CURB, THE SETBACK CAN BE REDUCED TO 2.5 FEET FROM THE BACK OF CURB.
- 19. SCREEN WALLS OVER 7', RETAINING WALLS OVER 4' MUST HAVE A BUILDING PERMIT AND BE IN CONFORMANCE WITH CHANDLER BUILDING CODE.
- 20. ALL UNDERGROUND FACILITIES INSTALLED IN ANY REAL PROPERTY OUTSIDE THE CITY'S RIGHT-OF-WAY MUST COMPLY WITH THE FOLLOWING MARKING STANDARDS IN ACCORDANCE WITH HOUSE BILL 2256. A YELLOW INSULATED COPPER WIRE OR OTHER APPROVED CONDUCTOR MUST BE INSTALLED ADJACENT TO UNDERGROUND UTILITIES FOR FIRE LINE PIPING, POTABLE WATER DISTRIBUTION PIPING, SANITARY SEWER LINES, STORMWATER PIPING, RECLAIMED WATER PIPING, GRAVITY FLOW IRRIGATION PIPING AND PRESSURIZED IRRIGATION PIPING LARGER THAN TWO (2) INCHES IN DIAMETER UNLESS THESE FACILITIES CAN BE DETECTED FROM ABOVE GROUND WITH AN ELECTRONIC LOCATING DEVICE. ACCESS MUST BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE MUST TERMINATE ABOVE GROUND AT EACH END OF THE PIPING. THE TRACER WIRE MUST NOT BE LESS THAN 18 AWG AND SUITABLE INSULATION TYPE FOR DIRECT BURIAL.
- 21. ANY CONSTRUCTION DETOURS WILL REQUIRE AN ALL-WEATHER SURFACE PER MARICOPA COUNTY AIR QUALITY REQUIREMENTS.
- 22. THE CONTRACTOR MUST SUPPLY PUBLIC WORKS INSPECTOR CONSTRUCTION MATERIAL TESTING DOCUMENTATION THROUGHOUT THE PROJECT.
- 23. ALL SITE IMPROVEMENTS, INCLUDING LANDSCAPE AND SITE CLEANUP, MUST BE COMPLETE PRIOR TO CERTIFICATE OF OCCUPANCY FOR ANY BUILDING WITHIN A PHASE.

GRADING AND DRAINAGE NOTES:

- 1. A GRADING PERMIT IS REQUIRED.
- 2. APPROVED MINIMUM FINISH FLOOR ELEVATION SHALL BE ALTERED.

DRYWELLS (WHEN USED). MAXIMUM SIDE SLOPES SHALL BE 4:1.

- 3. STAKING FINISH FLOOR ELEVATION IS THE RESPONSIBILITY OF THE DEVELOPER AND HIS ENGINEER.
- 4. CONTRACTOR SHALL PROVIDE GRADING FOR POSITIVE DRAINAGE IN ALL RETENTION BASINS AT ELEVATIONS AS SHOWN ON THE PLANS. BOTTOM OF BASIN SHALL BE GRADED TO DRAIN TOWARD
- 5. DRYWELL INLET GRATE SHALL BE FLUSH WITH ROAD SURFACE OR TURF, OR 1-1/2" ABOVE THE FINISHED GRADE OF DECOMPOSED GRANITE LANDSCAPED AREAS.
- 6. DRILLING LOGS FOR DRYWELLS WILL BE FURNISHED TO THE CITY INSPECTOR PRIOR TO FINAL ACCEPTANCE.
- 7. A PERCOLATION TEST SHALL BE REQUIRED OF COMPLETED DRYWELLS PRIOR TO ACCEPTANCE. SHOULD EXISTING SOIL CONDITIONS BE ENCOUNTERED WHICH LACK SUFFICIENT PERCOLATION RATES, ADDITIONAL DRYWELLS OR AN ALTERNATE METHOD OF STORM WATER RUN-OFF DISPOSAL WILL BE REQUIRED.

DRYWELL KEY MAP #	ADEQ REG #	FIELD PERC RATE (CFS)
N/A	N/A	N/A

- 9. THE APPROVED DRYWELL REGISTRATION SHALL BE SUBMITTED TO THE CITY BY THE DEVELOPER OR HIS ENGINEER AT THE TIME AS—BUILTS ARE SUBMITTED.
- 10. ALL WEEP HOLES IN WALLS SHALL BE PROVIDED WITH EROSION PROTECTION 12" THICK WITH D50 = 4" RIPRAP, 24" IN WIDTH, EXTENDED TO THE BACK OF SIDEWALK OR TO THE BOTTOM OF RETENTION BASIN, WHICHEVER APPLIES.
- 11. A RETAINING WALL WILL BE REQUIRED IF AT THE COMPLETION OF GRADING THERE EXISTS MORE THAN ONE FOOT OF DIFFERENCE IN ELEVATION BETWEEN THIS SITE AND ADJACENT PROPERTIES.
- 12. SCREEN WALLS OVER 7', RETAINING WALLS OVER 4' MUST HAVE A BUILDING PERMIT AND BE IN CONFORMANCE WITH CHANDLER BUILDING CODE.
- 13. THE EXISTING RETENTION AND DRAINAGE FACILITIES ON THIS SITE WILL NOT BE REMOVED FROM SERVICE UNTIL THE PERMANENT RETENTION AND DRAINAGE FACILITIES ARE FUNCTIONAL.

APS AND/OR SRP FACILITIES:

NOTE: THE SALT RIVER PROJECT, ARIZONA PUBLIC SERVICE, AND OTHER UTILITY PROVIDERS MAINTAIN ENERGIZED AERIAL AND UNDERGROUND ELECTRICAL POWER LINES AND GAS PIPE LINES IN THE IMMEDIATE VICINITY OF THIS PROJECT. DO NOT CONSIDER THESE LINES TO BE INSULATED OR ENCASED. CONSTRUCTION PERSONNEL WORKING IN PROXIMITY TO THESE UTILITY LINES ARE EXPOSED TO AN EXTREME HAZARD. CONTRACTORS, THEIR EMPLOYEES, AND ALL OTHER CONSTRUCTION PERSONNEL WORKING ON THIS PROJECT ARE WARNED OF THE DANGER AND INSTRUCTED TO TAKE ADEQUATE PROTECTIVE MEASURES. (SEE OSHA STD. 1926) AS AN ADDITIONAL SAFETY PRECAUTION, CONTRACTORS ARE INSTRUCTED TO CALL THE SALT RIVER PROJECT AT (602) 236–8888 OR ARIZONA PUBLIC SERVICE AT (602) 371–7171, TO ARRANGE, IF POSSIBLE, TO HAVE THESE LINES DE-ENERGIZED OR RELOCATED WHEN THE WORK REACHES THEIR IMMEDIATE VICINITY. THE COST OF SUCH TEMPORARY ARRANGEMENTS SHALL BE BORNE BY THE CONTRACTOR. A 2 WORKING DAY (48 HOUR) ADVANCE NOTICE MUST BE GIVEN BUT UP TO 60 DAYS LEAD TIME MAY BE REQUIRED FOR RELOCATION OR OTHER ARRANGEMENTS.

RECLAIMED WATER NOTES:

- 1. RECLAIMED WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH MAG SECTION 616, CITY SUPPLEMENTS, AND THESE NOTES
- 2. THE MINIMUM DEPTH OF COVER WITHIN THE RIGHT-OF-WAY OF ARTERIAL STREETS SHALL BE 7', AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 3. PIPE SEPARATION ALSO SHALL CONFORM TO ARIZONA RULE R18-9-602, PIPELINE CONVEYANCES OF RECLAIMED WATER.
- 4. A REDUCED PRESSURE BACKFLOW DEVICE SHALL BE INSTALLED, AS PART OF THE ORIGINAL SYSTEM, ON A RECLAIMED WATER SYSTEM THAT WILL USE POTABLE WATER AS AN INITIAL SOURCE AND WILL USE RECLAIMED WATER AS A SOURCE LATER. ON SUCH A SYSTEM, CONCURRENT CONNECTIONS SHALL NOT BE MADE AT ANY TIME TO BOTH POTABLE WATER AND RECLAIMED WATER SYSTEMS, REGARDLESS WHETHER ONE OR BOTH SYSTEMS ARE DEVOID OF SUPPLY.
- 5. PRIVATE RECLAIMED WATER LINES SHALL BE INSTALLED IN SLEEVES WHERE THEY CROSS PUBLIC OR PRIVATE RIGHT—OF—WAY.
 PIPE SLEEVES SHALL BE PIPE MEETING THE REQUIREMENTS FOR CONVEYANCE PIPE AND SHALL BE TWO NOMINAL SIZES
 LARGER WITH LOCATOR WIRE AND ID. TAPE PER C—408. ENCROACHMENT PERMIT REQUIRED.
- 6. RECLAIMED WATER IRRIGATION SYSTEM SPRINKLER HEADS, VALVE BOXES AND COVERS, AND FLOW CONTROL HANDLES ON VALVES SHALL BE PURPLE.
- 7. THE WORDS "RECLAIMED WATER" SHALL BE STENCILED ON BACKFLOW ASSEMBLIES USING THE COLOR PURPLE OR SHALL BE OTHERWISE BE LEGIBLY MARKED.
- 8. PVC PIPE SHALL NOT BE EXPOSED TO DIRECT ULTRAVIOLET RADIATION (SUNLIGHT) FOR MORE THAN 30 DAYS, WHETHER THE TIME IS CONTINUOUS OR CUMULATIVE. PVC PIPE SHALL BE PROTECTED FROM DIRECT ULTRAVIOLET RADIATION FOR ANY TIME OF EXPOSURE EXCEEDING 30 DAYS. PVC PIPE THAT HAS BEEN DISCOLORED BY EXPOSURE TO ULTRAVIOLET RADIATION IS UNACCEPTABLE.
- 9. VALVES 4" THROUGH 24" SHALL BE GATE VALVES UNLESS NOTED OTHERWISE. EACH VALVE SHALL BE FURNISHED WITH A BAR WELDED TO THE OPERATING NUT IN ACCORDANCE WITH C-406, THEREBY REQUIRING A TOOL WITH A KEY SLOT TO EXERCISE THE VALVE. VALVE BOXES AND COVERS SHALL CONFORM TO C-406.

10. NO VALVE, RISER, BOX OR COVER SHALL BE LOCATED BENEATH OR WITHIN A SIDEWALK OR SIDEWALK RAMP.

- 11. CITY RECLAIMED WATER VALVES SHALL BE OPERATED BY CITY OF CHANDLER PERSONNEL ONLY.
- 12. CITY OF CHANDLER WILL FURNISH AND INSTALL WATER METERS WITH PREVAILING COSTS PAID BY THE DEVELOPER.
- 13. METER BOXES AND COVERS SHALL BE SUPPLIED BY THE DEVELOPER AND SHALL BE INSTALLED BY THE CONTRACTOR FACING AWAY FROM THE STREET. METER BOXES FOR METERS 2" AND SMALLER SHALL BE CONCRETE AND SHALL CONFORM TO MAG STD DTL 320. THE INSIDE OF EACH METER BOX SHALL BE PAINTED PURPLE. METER BOX COVERS SHALL BE POLYMER CONCRETE AND SHALL CONFORM TO C-301. METER BOX COVERS SHALL BE CAST WITH THE WORDS "RECLAIMED WATER" IN THE OUTSIDE SURFACE OR HAVE TAGS WITH THE WORDS "RECLAIMED WATER" FIRMLY ATTACHED TO THE OUTSIDE SURFACE. LETTERING SIZE AND FORMAT SHALL BE SIMILAR TO THE LETTERING IN MAG STD DTL 315. TAGS SHALL OTHERWISE MEET THE REQUIREMENTS FOR RECLAIMED WATER VALVE TAGS.
- 14. METER VAULTS SHALL BE IN CONFORMANCE TO C-416. THE INSIDE OF EACH METER VAULT AND METER BOX SHALL BE PAINTED PURPLE. METER VAULT AND METER BOX COVERS SHALL INCLUDE THE WORDS "RECLAIMED WATER" AS REQUIRED FOR METER BOX COVERS ABOVE FOR METERS 2" AND SMALLER. THE CITY OF CHANDLER WATER DISTRIBUTION DIVISION SHALL BE NOTIFIED 24 HOURS BEFORE INSTALLATION AT (480) 782-3700.
- 15. WARNING SIGNS: AREAS IRRIGATED WITH RECLAIMED WATER SHALL BE IDENTIFIED BY SURFACE MOUNTED SIGNS, AT LEAST 12" WIDE BY 9" HIGH, OF C-405 PAGE 11 OF 12. SIGNS SHALL BE PROMINENTLY LOCATED AT ALL SUBDIVISION AND PARK ENTRANCES, IN ALL AREAS SUBJECT TO IRRIGATION, AND AT ALL LAKES AND WATER FEATURES. SIGNS SHALL BE POSTED AT EACH PEDESTRIAN ENTRANCE AND ACCESS POINT TO AN AREA WHERE RECLAIMED WATER IS USED. SIGNS SHALL BE SPACED AT A MAXIMUM INTERVAL OF 100 YARDS, EXCEPT FOR ROADWAY MEDIANS, WHERE SIGNS MAY BE SPACED AT A MAXIMUM INTERVAL OF 300 YARDS.
- 16. RECLAIMED WATER LINES GREATER THAN OR EQUAL TO 4" IN DIAMETER SHALL BE TESTED IN ACCORDANCE WITH THE SAME REQUIREMENTS AS POTABLE WATER LINES. RECLAIMED WATER LINES LESS THAN 4" IN DIAMETER ARE NOT REQUIRED TO BE TESTED. ON A RECLAIMED WATER SYSTEM THAT WILL NOT USE POTABLE WATER AS AN INITIAL SOURCE, RECLAIMED WATER MAY BE USED IN LIEU OF POTABLE WATER TO FILL RECLAIMED WATER PIPE BEING TESTED. DISINFECTION OF THE RECLAIMED WATER MAIN SHALL NOT BE REQUIRED.
- 17. RECLAIMED WATER LINES LARGER THAN TWO (2) INCHES IN DIAMETER SHALL HAVE LOCATOR WIRE INSTALLED PER C-408.

PAVING NOTES:

- 1. THE LOCATION OF ALL VALVES MUST BE REFERENCED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION.
- 2. NO PAVING CONSTRUCTION SHALL BE PERFORMED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE RIGHT—OF—WAY HAVE BEEN COMPLETED.
- 3. THE BASE COURSE WILL NOT BE PLACED ON SUBGRADE UNTIL BASE REQUIREMENTS HAVE BEEN COMPLETED AND ACCEPTED BY THE CITY ENGINEER.
- 4. GUTTERS WILL BE WATER TESTED IN THE PRESENCE OF THE CITY ENGINEER TO INSURE PROPER DRAINAGE PRIOR TO FINAL APPROVAL.
- THE EXACT POINT OF PAVEMENT MATCHING FOR TERMINATION AND OVERLAY MAY BE DETERMINED IN THE FIELD BY THE CITY ENGINEER.
 NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS. PAVEMENT AND SIDEWALKS HAVE BEEN
- SWEPT CLEAN OF ALL DIRT AND DEBRIS.

 7. STREET NAME SIGNS WILL BE INSTALLED BY THE CITY ON DEVELOPER INSTALLED POLES AT THE
- DEVELOPER'S EXPENSE. POLES SHALL BE PER C-613. PAYMENT WILL BE COLLECTED AT THE TIME A PAVING PERMIT IS ISSUED.

 8. ALL TRAFFIC CONTROL SIGNS SHALL BE CONSTRUCTED OF HIGH INTENSITY GRADE SHEETING,
- UNLESS OTHERWISE NOTED.

 9. ALL STREET SECTIONS, EXCEPT ARTERIALS, SHALL HAVE INSTALLED A PRESERVATIVE SEAL COAT
- PER MAG SECTION 334 AND SHALL BE AN ASPHALT EMULSION SEALER PER MAG SECTION 718.3.

 THE SEAL SHALL BE INSTALLED AT THE END OF THE WARRANTY PERIOD, OR AT THE CITY'S OPTION, A FEE MAY BE COLLECTED IN LIEU OF THE APPLICATION.
- COVER. A STORM DRAIN INLET MARKER IN ACCORDANCE WITH C-508 SHALL BE INSTALLED ON THE TOP OF THE CURB AND ALIGNED WITH THE CENTER OF THE INLET.

10. ALL CURB-OPENING CATCH BASIN ACCESS COVERS SHALL BE PER MAG STD DTL 536. ALTERNATE

11. PAVEMENT MATCHING AND SURFACING REPLACEMENT SHALL BE IN ACCORDANCE WITH MAG STD DTL 200, MAG SECTION 336 AND SECTION 337. ALL CRACKS AND JOINTS SHALL BE SEALED, UNLESS OTHERWISE DIRECTED BY CITY ENGINEER OR STREET SUPERINTENDENT.



1620 West Fountainh Suite 501 Tempe, Arizona 8 Phone: (480) 893.

CITY OF CHANDLER
CLAIMED WATER PIPE EXTENSION PR
GERMANN ROAD AND HAMILTON STR
GENERAL NOTES 1
CITY PROJECT NO. WW2206.404

Design: KR Drawn: GL Checked: AEP

Mate: 01/2025 Wilson Project No.: 22016

Mate Date Description By

Mate Date Description By

Mate Date Description By

Mate Date Description By

THIS SHEET, ADJUST SCALES ACCORDINGLY

39167

ALAN EDWARD PALMQUIST

Signed 1-8-7515

BAR IS ONE INCH ON

ORIGINAL DRAWING

1

IF NOT ONE INCH ON

Sheet No. **G-2**

SIGNING AND STRIPING NOTES:

- 1. THE CITY TRANSPORTATION ENGINEER'S OFFICE SHALL BE NOTIFIED 5 BUSINESS DAYS PRIOR TO STARTING ANY SIGNING OR STRIPING WORK AT (480) 782-3454.
- 2. ALL PAVEMENT MARKINGS, SIGN MATERIALS AND CONSTRUCTION SHALL CONFORM TO ARIZONA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
- 3. SIGN LOCATIONS AND OFFSETS MAY BE ADJUSTED BY THE CITY TRANSPORTATION ENGINEER TO IMPROVE VISIBILITY.
- 4. ALL MEDIAN NOSES SHALL BE PAINTED YELLOW WITH REFLECTIVE GLASS BEADS PER C-617.
- 5. ALL RAISED PAVEMENT REFLECTORS SHALL BE INSTALLED WITH CRAFCO PAVEMENT REFLECTOR ADHESIVE, OR EQUAL.
- 6. ALL TRAFFIC CONTROL SIGNS, EXCEPT STOP SIGNS, SHALL BE ATTACHED TO STREET LIGHT POLES IF THE POLE IS WITHIN 25 FT. OF SIGN LOCATION AS SHOWN ON THE SIGNING AND STRIPING PLANS.
- 7. ALL CROSSWALKS, STOP BARS, MINI-SKIPS, TURN ARROWS AND LEFT/RIGHT TURN LANE STRIPING SHALL BE THERMOPLASTIC.
- 8. ALL TRAFFIC CONTROL SIGNS SHALL BE CONSTRUCTED OF HIGH INTENSITY GRADE SHEETING SCREENED WITH 3-M APPROVED INKS OR EQUIVALENT APPROVED BY THE TRANSPORTATION DIVISION. WARRANTY DOCUMENTS ARE REQUIRED AND SHALL BE SUBMITTED PRIOR TO FINAL JOB ACCEPTANCE.
- 9. ALL EXISTING SIGNS TEMPORARILY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED FOR REINSTALLATION BY THE CONTRACTOR. ALL EXISTING SIGNS PERMANENTLY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED FOR RETURN TO THE CITY SIGN SHOP.
- 10. ALL CONFLICTING PAVEMENT MARKINGS WILL BE OBLITERATED BY WATER BLASTING BY THE CONTRACTOR. GRINDING IS NOT PERMITTED.
- 11. A SEALANT APPROVED BY THE CITY OF CHANDLER STREETS DIVISION SHALL BE APPLIED BY THE CONTRACTOR TO ALL AREAS OF PAVEMENT MARKING OBLITERATION. REFER TO THE LIST OF APPROVED PRODUCTS.
- 12. THE CITY TRANSPORTATION ENGINEER MAY REQUIRE THE CONTRACTOR TO ADJUST SIGNING AND STRIPING AS NECESSARY.
- 13. ALL CONFLICTING SIGNAGE SHALL BE REMOVED BY THE CONTRACTOR.
- 14. ALL CITY SIGNS MUST BE RETURNED TO THE CITY SIGN SHOP.

UTILITIES LOCATION:

UTILITIES LOCATION: THE CONTRACTOR, MINIMUM 2 WORKING DAYS (48 HOURS) PRIOR TO PERFORMING UNDERGROUND EXCAVATION, SHALL TELEPHONE THE BLUE STAKE CENTER AT (602) 263-1100 TO OBTAIN FIELD UNDERGROUND UTILITIES LOCATION MARKING, THE CONTRACTOR SHALL UNCOVER AHEAD OF CONSTRUCTION, ALL LINES BEING TIED INTO AND ALL INTERSECTING UTILITIES SHOWN ON THE PLANS OR MARKED BY BLUE STAKE TO VERIFY THEIR LOCATION AND DEPTH. UTILITY SERVICES SHALL BE LOCATED AND PROTECTED BY THE CONTRACTOR. ALL PRECAUTIONS SHALL BE USED WHILE WORKING NEAR ALL UTILITIES, TO AVOID INJURY OR DEATH TO PERSONNEL PROPERTY DAMAGE AND/OR INTERRUPTION OF SERVICE. (SEE OSHA STD 1926-651 (A)).

ENGINEERS NOTES:

- 1. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THE
- 2. ACTUAL NEW PIPE ALIGNMENTS AND DEPTH SHALL BE ADJUSTED IN THE FIELD TO AVOID CONFLICT WITH OTHER UTILITIES. ALL LOCATION ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER AND DOCUMENTED ON THE AS—BUILT DRAWING.
- 3. MINIMUM COVER FOR PROPOSED AND RELOCATED UTILITIES IS 7'-0".
- 4. UTILITIES DESIGNATED AS ABANDONED SHALL BE TREATED AS LIVE UTILITIES. EXPOSE UTILITIES AND OBTAIN APPROVAL FROM OWNER OF ABANDONED UTILITY PRIOR TO REMOVAL.
- 5. IN CASES WHERE CONFLICTS OCCUR BETWEEN THE DRAWINGS OR THE DRAWINGS AND THE SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL CONTROL FOR BID PURPOSES UNLESS QUESTIONED AND ANSWERED IN WRITING DURING THE BID PHASE. SUBMIT QUESTIONS IN WRITING TO ENGINEER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
- 6. COLD JOINTS BETWEEN PAVEMENT SECTIONS SHALL BE SAWCUT. SAWCUTS SHALL BE MADE TO A MINIMUM DEPTH OF 1 1/2 INCHES AND IN ALL CASES DEEP ENOUGH TO INSURE A NEAT VERTICAL JOINT. PORTLAND CEMENT CONCRETE DESIGNATED TO REMAIN, THAT IS DAMAGED BY THE SAWCUTTING, SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- 7. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS FOR APPROVAL BY CITY (CITY TRAFFIC INSPECTOR OR CITY ENGINEER) AND IN ACCORDANCE WITH THE TECHNICAL DESIGN MANUAL #7: TRAFFIC BARRICADE DESIGN.
- 8. ALL PIPE JOINTS SHALL BE FULLY RESTRAINED.
- 9. ALL VALVES AT TEES SHALL BE FLANGED. ALL IN-LINE VALVES SHALL BE MJ VALVES.
- 10. ALL LANDSCAPED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION.
- 11. FIELD VERIFY LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THE WORK AND AVOID DAMAGE TO THE SAME.
- 12. ALL DETAILS AND SPECIFICATIONS REFERENCED IN THESE PLANS SHALL CONFORM TO THE LATEST EDITIONS OF THE CITY CHANDLER'S ENGINEERING AND DESIGN STANDARDS MANUAL (JANUARY 2025) AND THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) STANDARD DETAILS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (2025).

Tempe, Arizona 85282 Phone: (480) 893—8860 Improving Arizona's Arrastructure Since 1942

WILSON FNGINFFRS

CITY OF CHANDLER

CLAIMED WATER PIPE EXTENSION PROJ

GENERAL NOTES 2

CITY PROJECT NO. WW2206.404

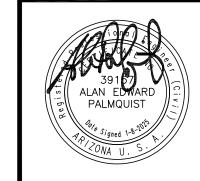
Design: KR Drawn: GL Checked: AEP

Date: 01/2025 Wilson Project No.: 22016

Rev# Date Description By

Solution By

Laborater Solution By

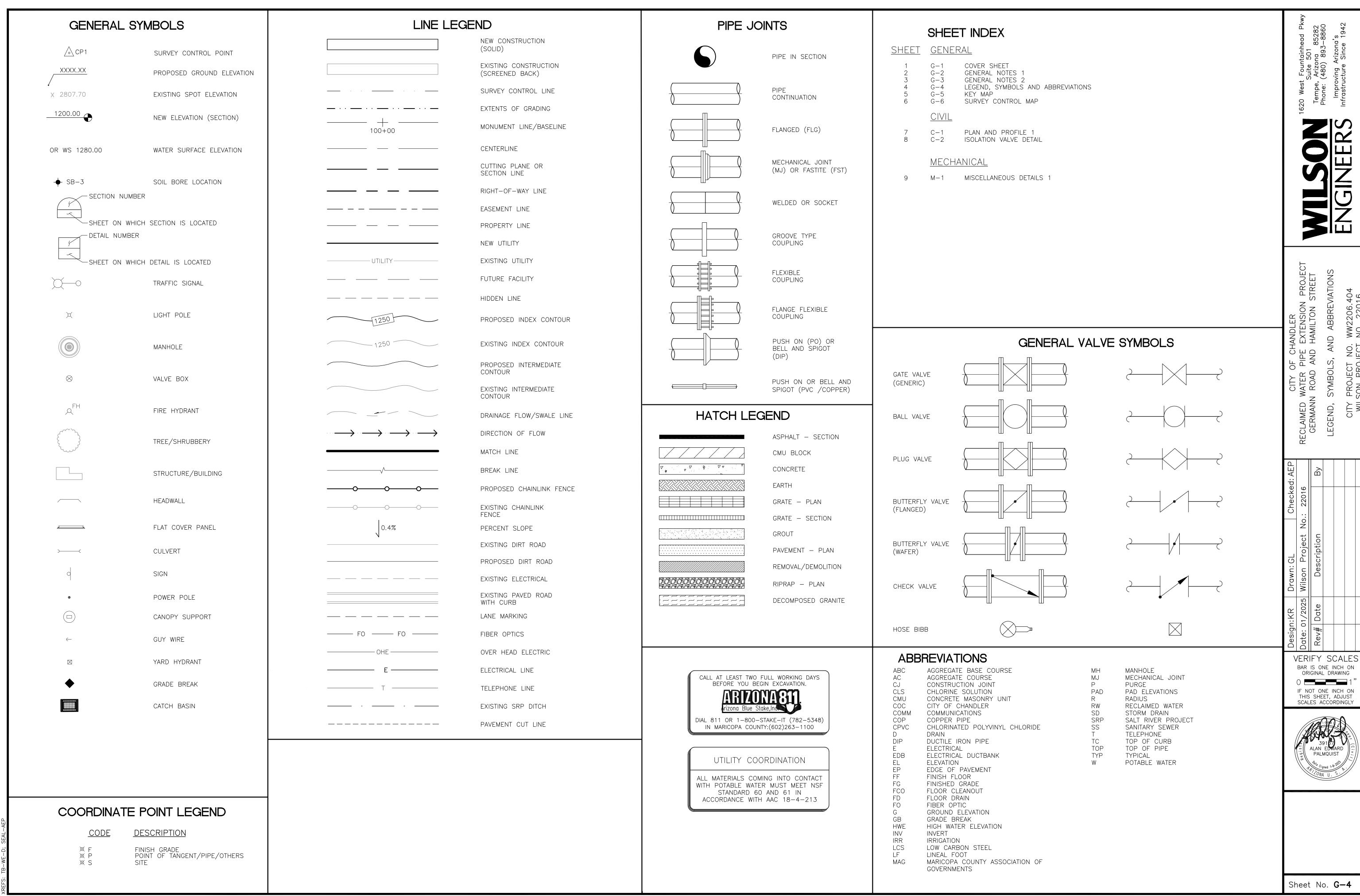


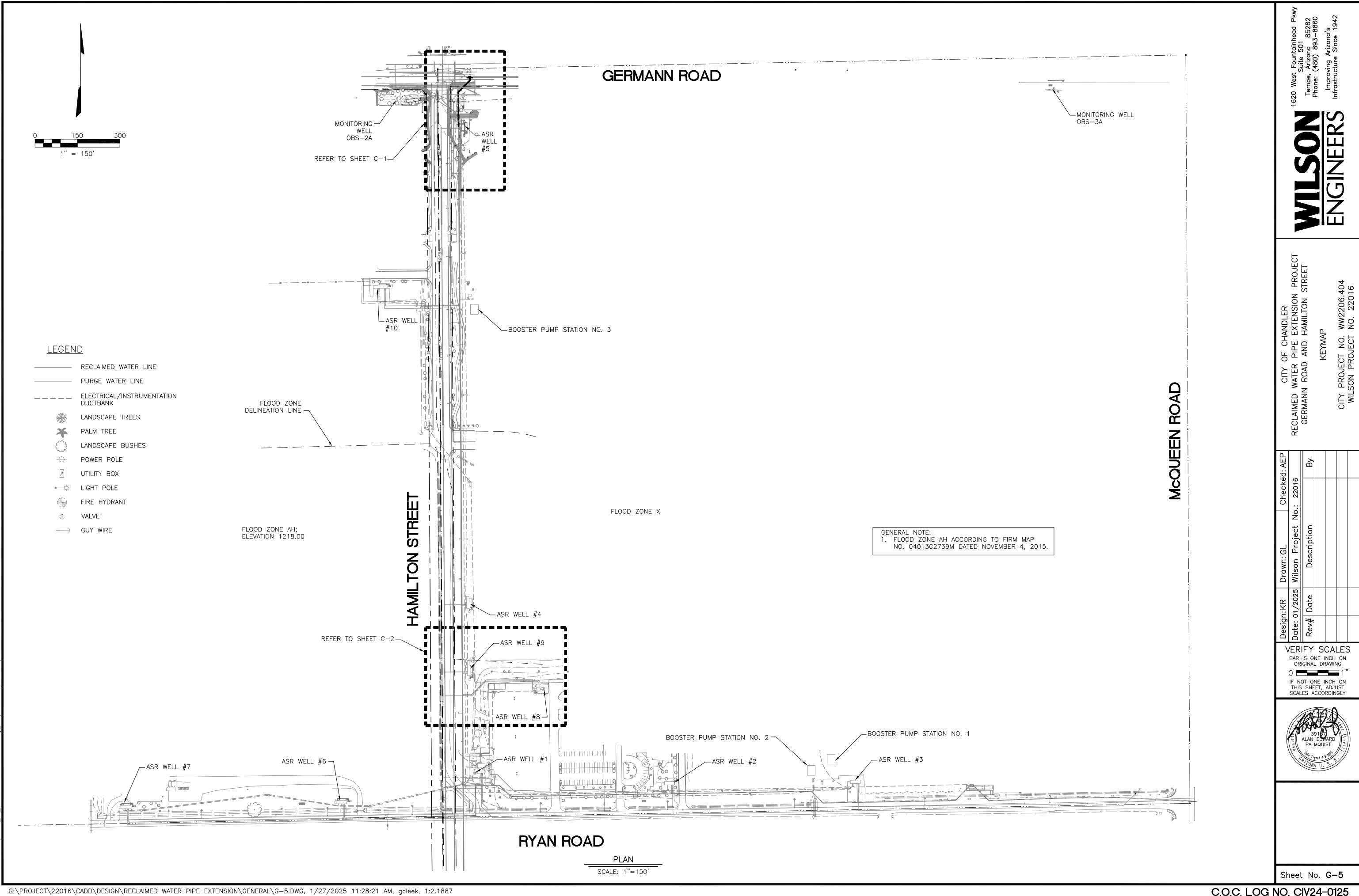
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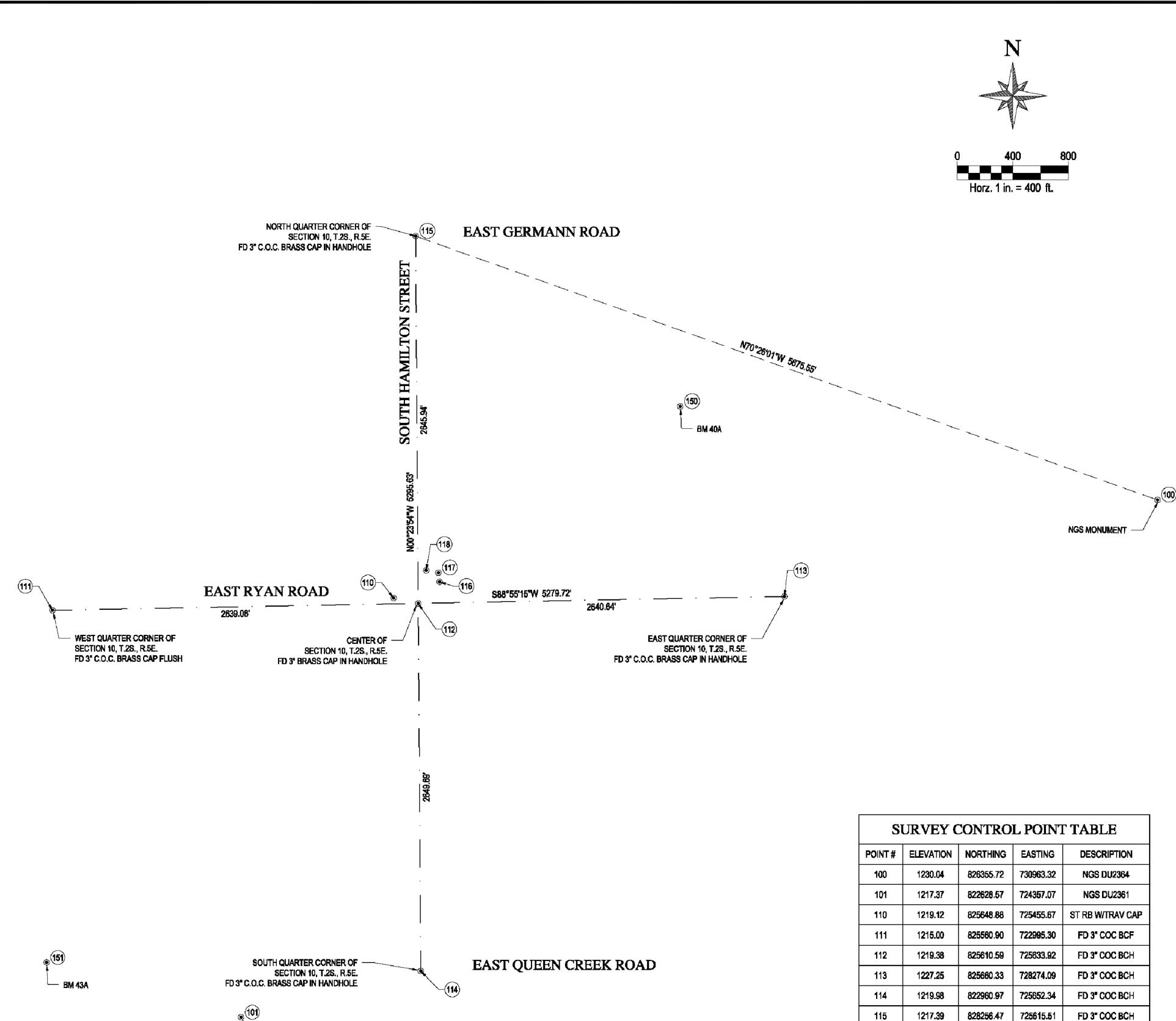
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Sheet No. **G-3**







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118

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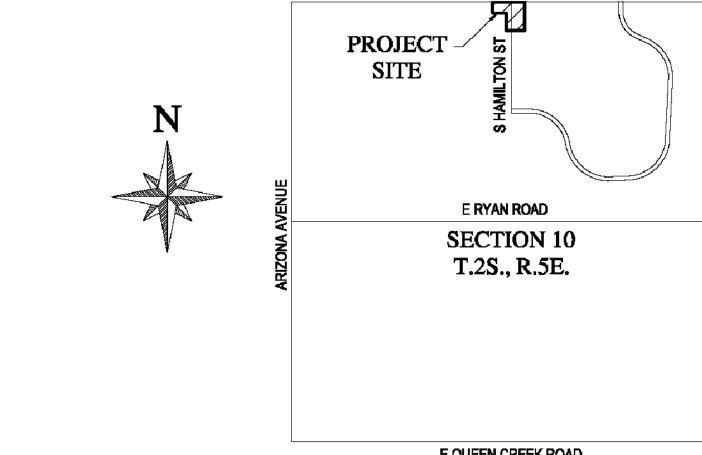
ST SPIKE

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ST X IN CONC

FD 3" COC BCH

FD 3" COC BCF



THE HORIZONAL DATUM FOR THIS SURVEY IS BASED ON INFORMATION OBTAINED FROM THE THE NATIONAL GEODETIC SURVEY (NGS) WEBSITE "WWW.NGS.NOAA.GOV", ON SEPTEMBER 22,

DATUM: GRS-80 UNITS: INTERNATIONAL FEET **GEOID MODEL: GEOID 12A**

CONTROL POINT N 522 PID DU2364 LATITUDE: 33°16'17.68783"N LONGITUDE: 111°48'55.29162"W ELLIPSOID HEIGHT: 345,003 (METERS) DESCRIPTION: PUNCH IN TOP CENTER OF STAINLESS STEEL ROD RECESSED IN 5" DIAMETER PVC

MODIFIED TO GROUND AT (GRID) N: 825660.108, E: 728274.060, USING A SCALE FACTOR OF 1.0001529671.

THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON CITY OF CHANDLER BENCHMARK 40A, A CITY OF CHANDLER BRASS CAP IN HANDHOLE LOCATED AT THE INTERSECTION OF TUMBLEWEED PARK ROAD AND PIONEER PARKWAY, APPROXIMATELY 1,300 FEET SOUTH OF GERMANN ROAD AND 700 FEET WEST OF MCQUEEN ROAD, HAVING AN ELEVATION OF 1224.41, CITY OF CHANDLER NAVD88 DATUM.

LEGEND

BÇH BM COC BENCHMARK CONC CONCRETE FOUND REBAR

CERTIFICATION

THIS SURVEY WAS PERFORMED UNDER MY DIRECTION DURING THE MONTH OF MAY 2019, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BRIAN J. DIEHL REGISTERED LAND SURVEYOR #23945 WOODPATEL 1630 SOUTH STAPLEY DRIVE, SUITE 219 MESA, ARIZONA 85204

(480) 834-3300 SURVEYOR@WOODPATEL.COM

> WOOD/PATEL
> MISSION: CLIENT SERVICE ** (602) 335-8500 WWW.WOODPATEL.COM

PHOENIX - MESA

Sheet No. **G-6**

NGS MONUMENT

E GERMANN ROAD

E QUEEN CREEK ROAD

VICINITY MAP

SURVEY CONTROL DATA

PROJECTION: ARIZONA CENTRAL (202) ZONE, NAD 83, (EPOCH 2010)

PIPE WITH NGS LOGO CAP.

HORIZONTAL ADJUSTMENT: NONE HORIZONTAL ROTATION: NONE

BRASS CAP FLUSH BRASS CAP IN HANDHOLE CITY OF CHANDLER

TRAVERSE

NGS NATIONAL GEODETIC SURVEY MONUMENT MARICOPA COUNTY DEPARTMENT OF TRASPORTAION

VERIFY SCALES BAR IS ONE INCH ON

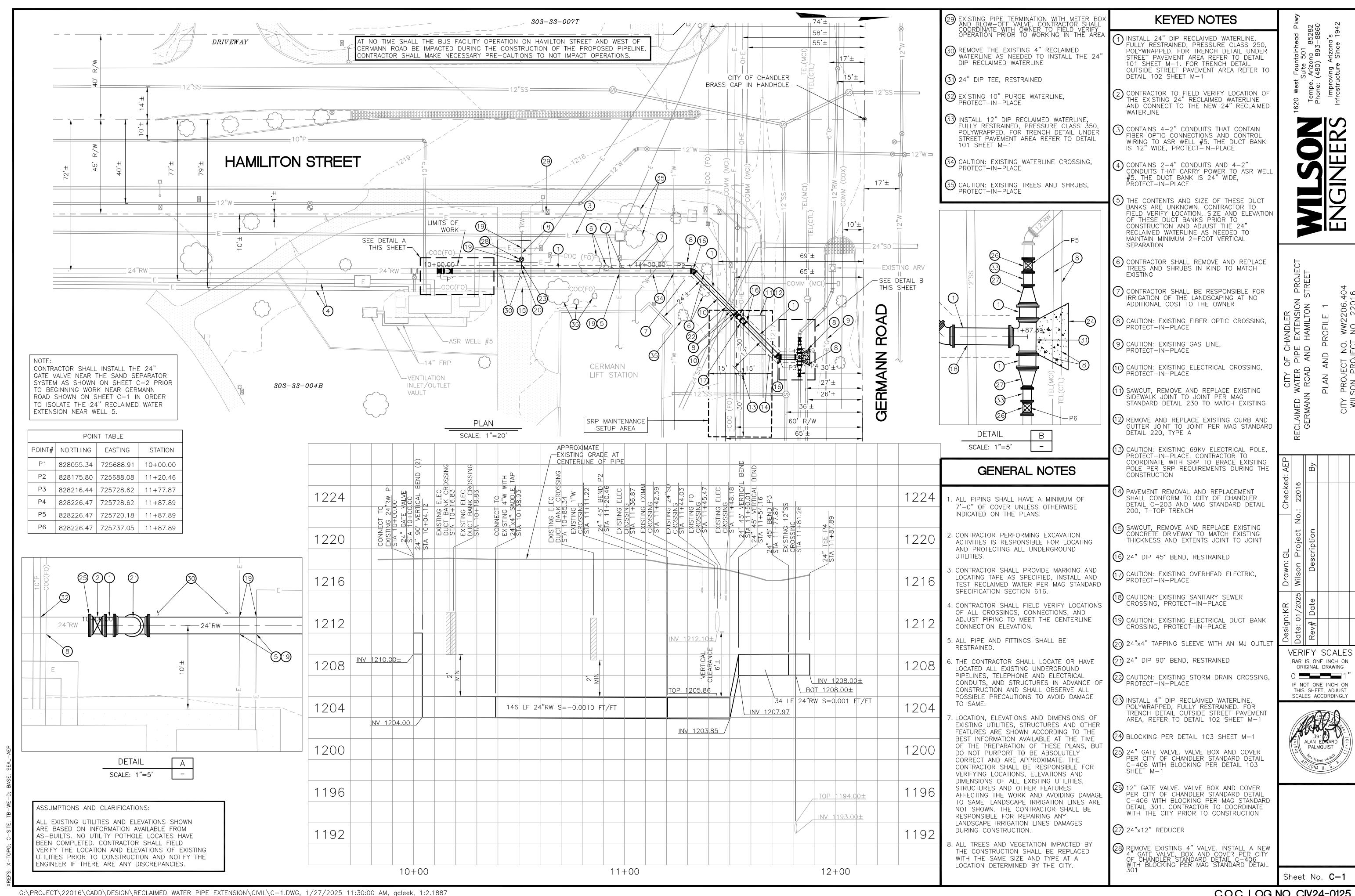
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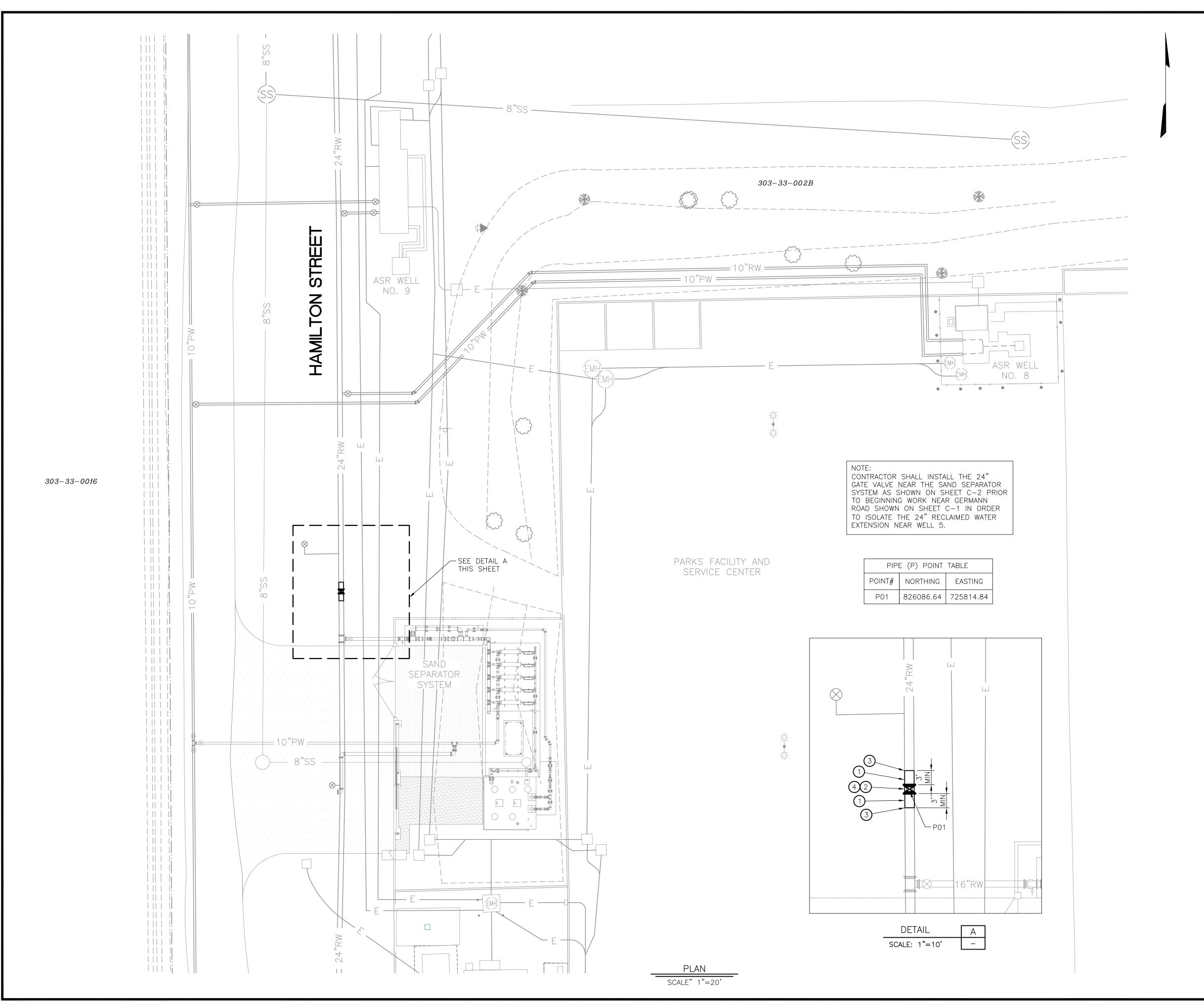
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CLAIMED W





KEYED NOTES

- REMOVE EXISTING 24" DIP RECLAIMED WATERLINE TO THE EXTENTS SHOWN AND REPLACE IT WITH NEW 24" DIP RECLAIMED WATERLINE, PRESSURE CLASS 250. BEDDING AND BACKFILL PER DETAIL 102 SHEET M-1
- 2) INSTALL 24" GATE VALVE. VALVE BOX AND COVER PER CITY OF CHANDLER STANDARD DETAIL C-406 WITH BLOCKING PER MAG STANDARD DETAIL 301
- 3 CONNECTION TO EXISTING RECLAIMED WATERLINE SHALL INCLUDE RESTRAINED SOLID SLEEVE. CONTRACTOR SHALL COORDINATE SHUTDOWN AND WATER DISCHARGE LOCATION FOR DE-WATERING WITH THE OWNER AND ENGINEER, PROVIDING A MINIMUM OF 10 DAYS NOTICE
- 4 CONTRACTOR SHALL SUBMIT A MOPO PLAN DETAILING INSTALLATION IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS FOR REVIEW AND APPROVAL BY THE OWNER AND ENGINEER

Suite 501
Suite 501
pe, Arizona 8528
ie: (480) 893-88
proving Arizona's

Tempe, A Phone: (4 Improvii)

WILSO ENGINEER

CITY OF CHANDLER
ECLAIMED WATER PIPE EXTENSION PROJ
GERMANN ROAD AND HAMILTON STREE
ISOLATION VALVE DETAIL
CITY PROJECT NO. WW2206.404

GENERAL NOTES

- ALL PIPING SHALL HAVE A MINIMUM OF 7'-0" OF COVER UNLESS OTHERWISE INDICATED ON THE PLANS.
- 2. CONTRACTOR PERFORMING EXCAVATION ACTIVITIES IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES.
- 3. CONTRACTOR SHALL PROVIDE MARKING AND LOCATING TAPE AS SPECIFIED, INSTALL AND TEST RECLAIMED WATER PER MAG STANDARD SPECIFICATION SECTION 616.
- 4. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL CROSSINGS, CONNECTIONS, AND ADJUST PIPING TO MEET THE CENTERLINE CONNECTION ELEVATION.
- 5. ALL PIPE AND FITTINGS SHALL BE RESTRAINED.
- 6. THE CONTRACTOR SHALL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND PIPELINES, TELEPHONE AND ELECTRICAL CONDUITS, AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND SHALL OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID DAMAGE TO SAME.
- 7. LOCATION, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT AND ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THE WORK AND AVOIDING DAMAGE TO SAME. LANDSCAPE IRRIGATION LINES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY LANDSCAPE IRRIGATION LINES DAMAGES DURING CONSTRUCTION.
- 8. ALL TREES AND VEGETATION IMPACTED BY THE CONSTRUCTION SHALL BE REPLACED WITH THE SAME SIZE AND TYPE AT A LOCATION DETERMINED BY THE CITY.

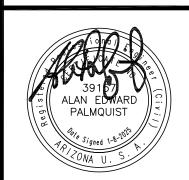
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O 1" 1"

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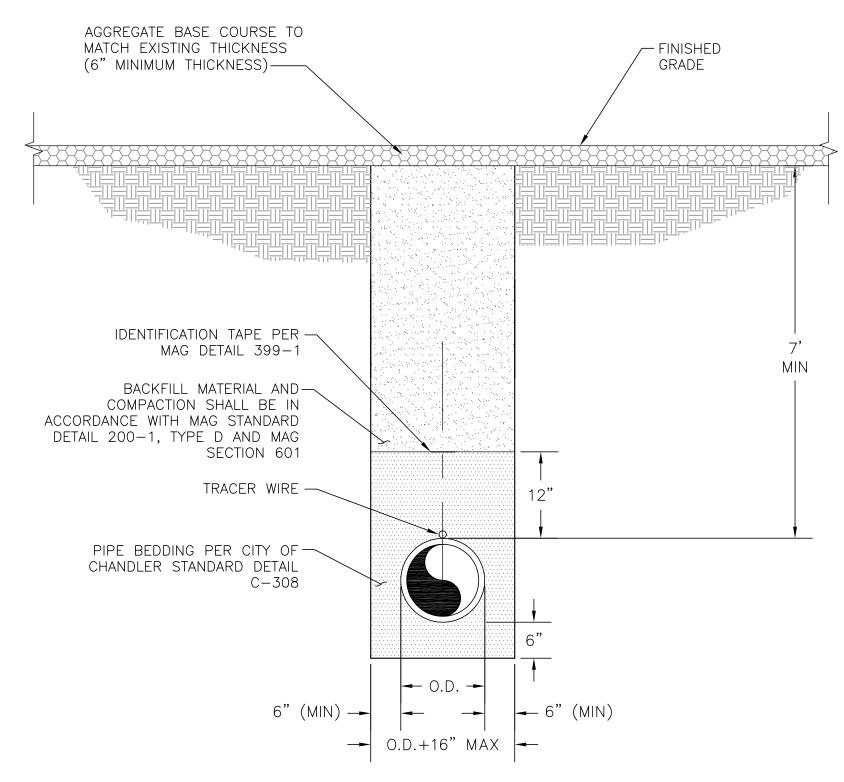


Sheet No. **C-2**

UNDER STREET PAVEMENT TRENCH DETAIL FOR RECLAIMED WATER
PIPE LINE

DETAIL 101

NOT TO SCALE -

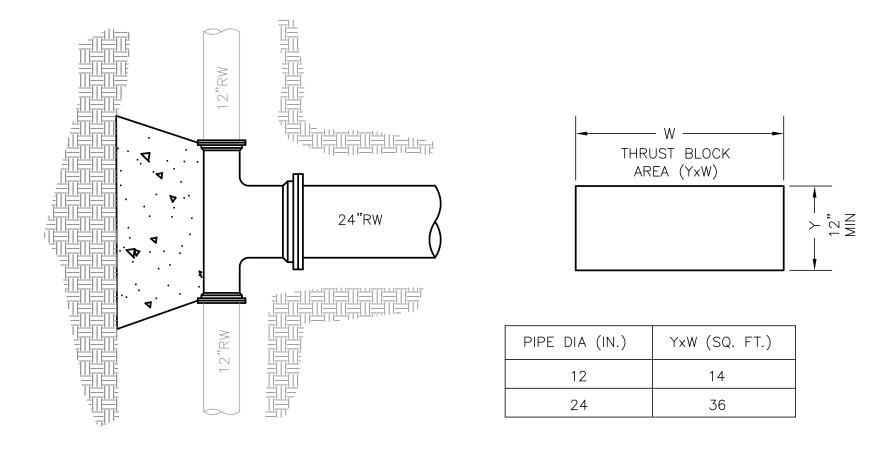


WITHOUT PAVEMENT TRENCH DETAIL FOR RECLAIMED WATER
PIPE LINE



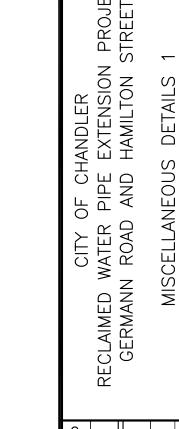
NOTES:

- 1. TRACER WIRES SHALL BE INSTALLED ALONG ALL PIPE RUNS ON TOP OF THE PIPE PER MAG STANDARD DETAIL 399-1.
- 2. BASE, FINAL BACKFILL, AND PIPE EMBEDMENT ZONE COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH MAG SECTION 601.
- 3. ASPHALT CONCRETE MIX DESIGN SHALL MEET THE REQUIREMENTS OF EAST VALLEY ASPHALT COMMITTEE (EVAC).
- 4. 2" SURFACE COURSE SHALL BE A-1/2 AND 3" PAVEMENT BASE ASPHALT CONCRETE SHALL BE A-3/4 ON THE EAST VALLEY ASPHALT COMMITTEE (EVAC) MOST CURRENT APPROVED LIST AT THE TIME OF PAVING.
- 5. TRENCH EXCAVATION SHALL BE SLOPED, PROTECTED, SHORED OR BRACED IN COMPLIANCE WITH OSHA & ALL GOVERNING LOCAL, STATE & FEDERAL REGULATIONS.
- 6. BACKFILL TO BE PLACED WITH A MAXIMUM LIFT THICKNESS OF 12". EXERCISE CARE TO AVOID "FLOATING" PIPE. WATER JETTING OR WATER CONSOLIDATION IS NOT ALLOWED.
- 7. NO SECTION OF PIPE, PIPE APPURTENANCE OR STRUCTURE SHALL BE BACKFILLED UNTIL THE INSPECTOR HAS EXAMINED AND APPROVED THAT SECTION OF THE INSTALLATION.
- 8. WHEN DIMENSION BETWEEN THE TRENCH WALL AND EXISTING LIP OF GUTTER IS LESS OR EQUAL TO 12 INCHES, REMOVE AND REPLACE ALL ASPHALT CONCRETE BOTH BASE AND SURFACE COURSE BETWEEN THE TRENCH AND LIP OF GUTTER.
- 9. SEE MAG SECTION 601 FOR ADDITIONAL TRENCH EXCAVATION, BACKFILLING AND COMPACTION REQUIREMENTS.
- 10. TRENCH BACKFILL WITHIN SRP TRANSMISSION MAINTENANCE SETUP AREAS SHALL BE 1 1/2 SACK CLSM PER SRP REQUIREMENTS, EXTENDING 15' ON EACH SIDE OF THE 69KV TRANSMISSION LINE.

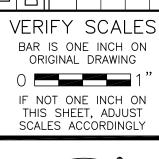


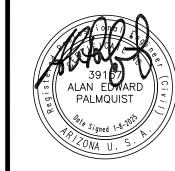
THRUST BLOCK DETAIL

DETAIL	103
NOT TO SCALE	_



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