## CITY OF CHANDLER, ARIZONA

MAYOR KEVIN HARTKE

VICE MAYOR

MATT ORLANDO

COUNCIL

ANGEL ENCINAS
CHRISTINE ELLIS
OD HARRIS
JANE POSTON

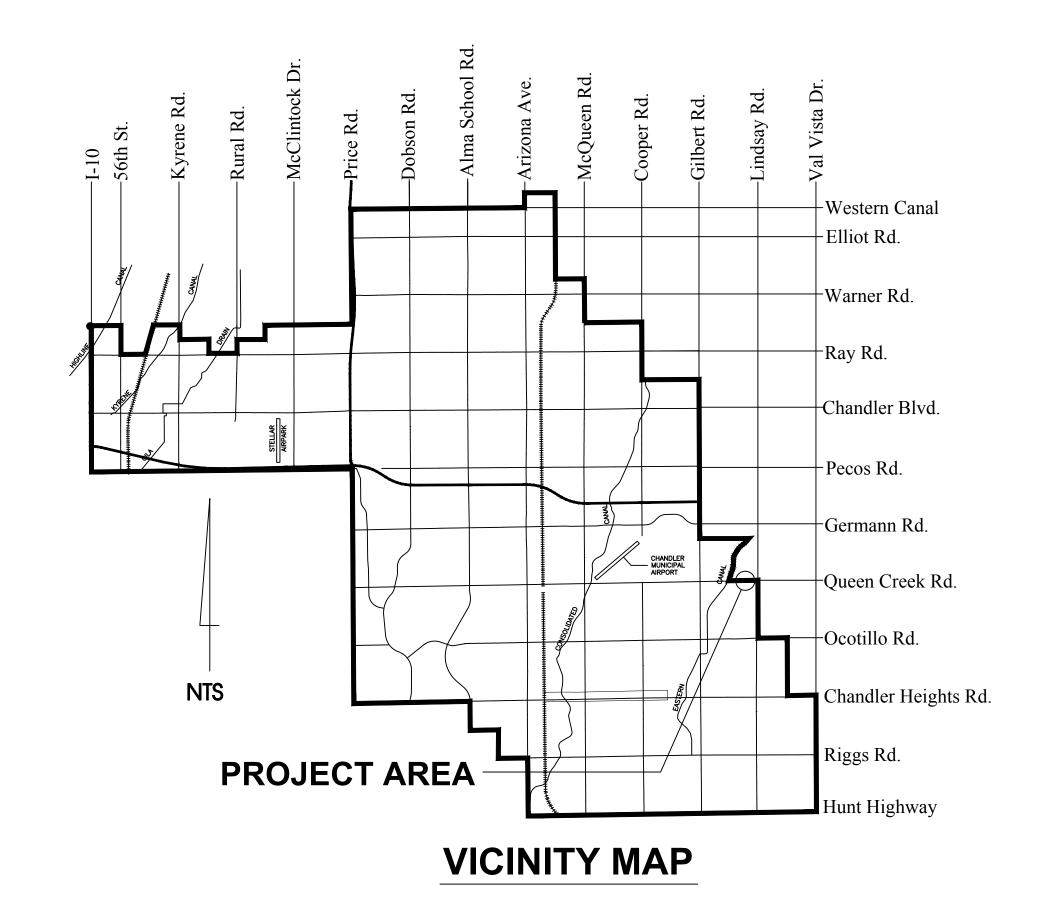
**MARK STEWART** 

PHONE NO. (480) 782-3331

CITY OF CHANDLER
PUBLIC WORKS DEPT.
215 EAST BUFFALO STREET
CHANDLER, AZ 85225

# Traffic Signal at Layton Lakes Blvd and Queen Creek Rd PROJECT NO. DS2202.401

**DATE: DECEMBER 2023** 



### CHANDLER arizona

#### APPROVED:

CITY TRANSPORTATION ENGINEER

12/12/2023, 12:26:12 PM

CIV23-0048

PUBLIC WORKS & UTILITIES DIRECTOR

CIV23-0048

Warren White

CITY ENGINEER

12/14/2023, 8:35:46 AM

CIV23-0048

Varien White

CIVIL PLAN REVIEW MANAGER

DATE

12/12/2023, 4:35:11 PM

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CIV23-0048

DATE

Jason Richardsor

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 SU	RVEYOR SIGNATURE	PRINTED NAME	DATE
REGISTRATION NO.	EXPIRATION DATE		
I HEREBY CERTIFY THA DESIGN.	AT THE "AS-BUILT" SHOV	WN HEREON SATISFIES	THE INTENT OF TH
REGISTERED CIVIL EN	GINEER SIGNATURE	PRINTED NAME	DATE
REGISTRATION NO.	EXPIRATION DATE		

#### ROOSEVELT WATER CONSERVATION DISTRICT

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION, PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES; THE SATISFACTORY PERFORMANCE OF HIS WORK. THE DISTRICT'S REVIEW OF THE PLANS IS A VOLUNTARY AND DISCRETIONARY ACTION WHICH IS NOT MANDATED BY STATE STATUTE. THE DISTRICT'S REVIEW OF THE PLANS IS SOLELY FOR THE DISTRICT'S BENEFIT, CONDUCTED WITH ONLY THE DISTRICT'S INTEREST IN MIND, AND SHOULD NOT BE RELIED UPON BY ANY THIRD PARTY. BY REVIEWING THE PLANS THE DISTRICT DOES NOT ASSUME ANY DUTY TO THIRD PARTIES.

ENGINEER:	DATE:
RWCD:	DATE:

#### **SHEET INDEX**

SHEET NO. DESCRIPTION
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1 COVER SHEET
2 GENERAL NOTES
3 LEGEND & ABBREVIATIONS
4 PAVING PLAN
5 SIDEWALK RAMP DETAILS

5 SIDEWALK RAMP DETAILS
6 TRAFFIC INTERCONNECT PLAN
7 TRAFFIC SIGNAL PLAN

TRAFFIC SIGNAL PLAN
TRAFFIC SIGNAL POLE AND CONDUCTOR SCHEDULE
PAVEMENT MARKING GENERAL NOTES AND LEGEND

10 SIGNING AND PAVEMENT MARKING PLAN

STATUS: FINAL

**DATE: DECEMBER 2023** 

2								
tg				BENCHMARK	NGVD 29	DESCRIPTION	EQUATION	NAVD 88
Mon				NUMBER	ELEVATION			ELEVATION
By:						SECTION 12, T2S, R5E, 3" CITY OF CHANDLER BRASS		
Ъ				42	_	CAP IN CONCRETE, FLUSH, 200' NORTH OF	1.673	1239.69
Plotte	REV. DATE DRWN	CHKD	REMARKS	72		INTERSECTION OF QUEEN CREEK RD AND COOPER RD; 23' EAST OF EDGE OF PAVEMENT.	1.070	1233.03





C.O.C. LOG NO. CIV23-0048

#### **GENERAL NOTES:**

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

BENCHMARK NUMBER	NGVD 29 ELEVATION	DESCRIPTION	EQUATION	NAVD 88 ELEVATION
42	-	SECTION 12, T2S, R5E, 3" CITY OF CHANDLER BRASS CAP IN CONCRETE, FLUSH, 200' NORTH OF INTERSECTION OF QUEEN CREEK RD AND COOPER RD; 23' EAST OF EDGE OF PAVEMENT.	1.673	1239.69

- 5. PRIOR TO ANY CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR/DEVELOPER SHALL NOTIFY THE LANDSCAPE COMPLIANCE COORDINATOR AT 480-782-3428. ANY CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL CONDITIONS USING THE FOLLOWING REQUIREMENTS:
- A. ALL LANDSCAPE IMPACTED BY CONSTRUCTION SHALL BE REPLACED IN KIND AND SIZE, OR AS DETERMINED BY THE CITY; B. ALL IRRIGATION SYSTEMS SHALL BE RESTORED TO FULLY FUNCTIONING STATUS. ANY IRRIGATION LOCATED BENEATH
- ASPHALT OR CONCRETE SHALL BE SLEEVED WITH SCHEDULE 40 PVC TWO NOMINAL SIZES LARGER THE AREA OF CONSTRUCTION SHALL BE TREATED WITH PRE-EMERGENT HERBICIDE (I.E. SURFLAN):
- GRANITE OF A SIZE AND COLOR TO MATCH EXISTING SHALL BE SPREAD A MINIMUM OF TWO INCHES THICK THE STREET DIVISION SHALL BE CONTACTED TO INSPECT ALL WORK BEFORE A CONDITIONAL ACCEPTANCE IS ISSUED;
- THE CONTRACTOR/DEVELOPER SHALL MAINTAIN THE AREA FOR NINETY DAYS AFTER CONDITIONAL ACCEPTANCE. AFTER 90 DAYS THE CITY SHALL BE CONTACTED FOR FINAL ACCEPTANCE AND ASSUMPTION OF MAINTENANCE
- WORK PERFORMED BY THE CONTRACTOR: 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
- 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 WORK ORDER, THE CITED WORK SHALL IMMEDIATELY CEASE. THE STOP WORK ORDER SHALL 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 SHALL 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 SHALL 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 SHALL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND PRIVATE UTILITIES (ELECTRIC, TELEPHONE, PIPELINES, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND SHALL 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
- 9. NO FINAL ACCEPTANCE SHALL 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 SHALL BE IN ACCORDANCE WITH SECTION 336 AND AS MODIFIED BY CITY SUPPLEMENTS. 11. BACKFILLING SHALL NOT BE STARTED UNTIL LINES ARE APPROVED BY THE CITY ENGINEER. ALL BACKFILL SHALL BE HALF-SACK
- CLSM UNLESS OTHERWISE APPROVED ON THE PLANS. ABC OR NATIVE MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH MAG SECTION 601, TYPE I. BACKFILL PLACEMENT AND SURFACE REPLACEMENT SHALL BE IN ACCORDANCE WITH MAG STD DTL 200 TTOP.
- 12. CONSTRUCTION OF CONCRETE OR PAVING ITEMS SHALL NOT COMMENCE UNTIL ALL UNDERGROUND WORK HAS BEEN INSPECTED 13. DISPOSAL OF AND STOCKPILING OF EXCESS MATERIAL WITHIN THE CHANDLER CITY LIMITS OR PLANNING AREA SHALL 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 SHALL 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 SHALL BE MAINTAINED IN ACCORDANCE WITH THE CHANDLER TRAFFIC BARRICADE MANUAL AND APPROVED TRAFFIC SEQUENCING PLANS AND/OR NOTES.
- 15. THE CONTRACTOR SHALL 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 SHALL UTILIZE A PM10-CERTIFIED STREET SWEEPER FOR STREET CLEANING.
- 16. AN APPROVED SET OF PLANS SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES THAT WORK IS IN PROGRESS. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT AN APPROVED PLAN REVISION.
- 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 SHALL BE 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 SHALL COMPLY WITH THE FOLLOWING MARKING STANDARDS IN ACCORDANCE WITH HOUSE BILL 2256. A YELLOW INSULATED COPPER WIRE OR OTHER APPROVED CONDUCTOR SHALL 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 SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVE GROUND AT EACH END OF THE PIPING. THE TRACER WIRE SHALL NOT BE LESS THAN
- 18 AWG AND THE INSULATION TYPE SHALL BE SUITABLE FOR DIRECT BURIAL. 21. ANY CONSTRUCTION DETOURS WILL REQUIRE AN ALL-WEATHER SURFACE PER MARICOPA COUNTY AIR QUALITY REQUIREMENTS.
- 22. THE CONTRACTOR SHALL SUPPLY CITY 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.
- 24. UTILITY COMPANIES HAVE BEEN IDENTIFIED BY BLUE STAKE COORDINATION AND PROJECT PLANS HAVE BEEN SUBMITTED MOST RECENTLY. SEE PAGE TS01 FOR UTILITIES AND DATES.

#### **PAVING NOTES:**

NO PAVING CONSTRUCTION SHALL BE PERFORMED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE RIGHT-OF-WAY HAVE BEEN THE BASE COURSE WILL NOT BE PLACED ON SUBGRADE UNTIL BASE REQUIREMENTS HAVE BEEN COMPLETED AND ACCEPTED

THE LOCATION OF ALL VALVES MUST BE REFERENCED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION.

- GUTTERS WILL BE WATER TESTED IN THE PRESENCE OF THE CITY ENGINEER TO INSURE PROPER DRAINAGE PRIOR TO FINAL
- THE EXACT POINT OF PAVEMENT MATCHING FOR TERMINATION AND OVERLAY MAY BE DETERMINED IN THE FIELD BY THE CITY
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS.
- 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. ALL TRAFFIC CONTROL SIGNS SHALL BE CONSTRUCTED OF HIGH INTENSITY GRADE SHEETING, UNLESS OTHERWISE NOTED.

CATCH BASIN ACCESS COVERS SHALL BE PER MAG STD DTL 536, ALTERNATE COVER.

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

#### GRADING AND DRAINAGE NOTES:

- A GRADING PERMIT IS REQUIRED.
- 2. APPROVED MINIMUM FINISH FLOOR ELEVATION SHALL NOT BE ALTERED.
- 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 DRYWELLS (WHEN USED). MAXIMUM SIDESLOPES SHALL BE 4:1.
- 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. 8. DRYWELL CONSTRUCTION SHALL BE DONE ONLY BY CONTRACTORS LICENSED BY THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY. APPLICATION FOR DRYWELL REGISTRATION WAS SUBMITTED TO ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY ON
- 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
- 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

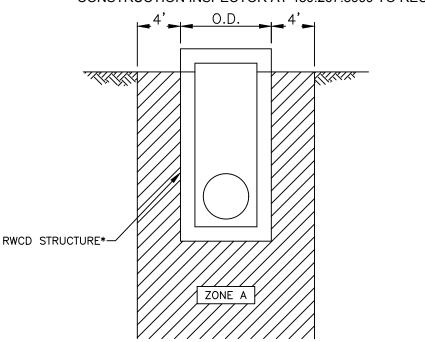
#### **RWCD GENERAL NOTES:**

- GENERAL CONDITIONS:
- A. ALL CONSTRUCTION OF RWCD FACILITIES SHALL CONFORM TO THE LATEST RWCD SPECIFICATIONS (WWW.RWCD.ORG) AND LATEST MAG SPECIFICATIONS.
- B. THE CONTRACTOR SHALL OBTAIN A PERMIT FROM RWCD BEFORE ANY WORK BEGINS THAT IMPACTS RWCD FACILITIES OR ACCESS TO RWCD FACILITIES.
- C. IMPROVEMENT PLANS FOR RWCD FACILITIES SHALL NOT BE APPROVED UNTIL POTHOLE INFORMATION FOR CROSSING OR PARALLEL UTILITIES, OR OTHER CONFLICTS, IS RECEIVED, REVIEWED AND DEEMED ADEQUATE BY RWCD. POTHOLE RESULTS SHALL BE SEALED BY A LAND SURVEYOR OR CIVIL ENGINEER REGISTERED IN ARIZONA AND SHALL BE LOCATED BY PROJECT STATION AND OFFSET. EACH POTHOLE SHALL INCLUDE THE ELEVATIONS OF THE SURFACE AND THE TOP AND BOTTOM OF THE BURIED UTILITY BASED ON THE PROJECT DATUM.
- D. AN APPROVED SET OF PLANS SHALL BE ON THE JOB SITE AT ALL TIMES THAT WORK IS IN PROGRESS. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT AN APPROVED PLAN REVISION FROM THE ENGINEER.
- E. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE MAG SPECIFICATION 401, THE MANUAL ON UNIFORM
- TRAFFIC CONTROL DEVICES, AND CURRENT TRAFFIC BARRICADE MANUAL. F. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING, IF NECESSARY, AN EXCAVATION AND DIRT MOVING PERMIT FROM THE
- MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT AND COMPLYING WITH ITS REQUIREMENTS FOR DUST CONTROL G. NO ACTIVITY INVOLVING AN RWCD MANHOLE SHALL OCCUR WITHOUT PRIOR AUTHORIZATION BY RWCD. THIS INCLUDES, BUT IS NOT LIMITED TO, REMOVING THE MANHOLE LID, RIM OR ANY DEVICE HOLDING THE MANHOLE LID OR RIM IN PLACE. CONTACT RWCD'S CONSTRUCTION INSPECTOR AT 480.267.8999 TO COORDINATE.
- 2. LANDSCAPE NOTES: A. TREES TO BE INSTALLED ADJACENT TO ANY RWCD FACILITY SHALL BE PLANTED NO CLOSER THAN 6' FROM THE OUTSIDE EDGE OF ROOT BALL TO THE OUTSIDE EDGE OF RWCD PIPE OR THE OUTSIDE EDGE OF ANY OTHER STRUCTURE, E.G. MANHOLE, DELIVERY STRUCTURE, ETC. RWCD RESERVES THE RIGHT TO MODIFY THIS CONDITION AT ANY TIME PER OUR DISCRETION.
- CONTACT RWCD'S CONSTRUCTION INSPECTOR AT 480.267.8999 TO COORDINATE. NO LANDSCAPE SPRINKLERS OR WATER EMITTERS ARE PERMITTED WITHIN 15 FEET OF ANY RWCD DELIVERY STRUCTURE. C. THE HOME OWNER'S ASSOCIATION IS RESPONSIBLE TO MAKE REPAIRS TO LANDSCAPING (INCLUDING TREES, GROUND COVER,
- GRASS, ETC) WHERE IT IS DAMAGED DURING REPAIRS TO RWCD PIPE OR OTHER FACILITIES D. LANDSCAPE BOULDERS SHALL BE KEPT 15' AWAY FROM THE OUTSIDE OF RWCD MANHOLES, TURNOUT STRUCTURES,
- E. LANDSCAPE FACILITIES SHALL ADHERE TO RWCD'S UTILITY CLEARANCE REQUIREMENTS (RWCD DETAIL 41).
- F. LANDSCAPE IRRIGATION MAIN LINES SHALL CROSS UNDER RWCD FACILITIES PER RWCD STANDARD DETAIL 41 AND RWCD GENERAL NOTE SECTION 5. LANDSCAPE IRRIGATION LATERALS (ZONE PIPES DOWNSTREAM OF A CONTROL VALVE) 2" AND SMALLER MAY CROSS OVER THE TOP OF AN RWCD LATERAL PIPE WITH A MINIMUM OF 1' CLEARANCE. LANDSCAPE IRRIGATION LATERAL PIPES THAT ARE OVER 2" IN SIZE, OR THAT DO NOT MEET COVER AND CLEARANCE CRITERIA, SHALL CROSS UNDER THE RWCD LATERAL PER RWCD STANDARD DETAIL 41 AND RWCD GENERAL NOTE SECTION 5.
- 3. CONSTRUCTION SEQUENCE AND REQUIREMENTS: A. ALL CONSTRUCTION ACTIVITIES INVOLVING THE MODIFICATIONS AND/OR REPLACEMENT OF RWCD OWNED FACILITIES SHALL BE BONDED AT A FIGURE APPROVED BY THE GENERAL MANAGER. SUCH BOND SHALL BE MADE TO THE BENEFIT OF RWCD AND WILL NOT BE RELEASED UNTIL SUCH TIMES AS THE GENERAL MANAGER OR OTHER AUTHORIZED INDIVIDUAL HAS APPROVED
- ALL CONSTRUCTION ACTIVITIES FOR COMPLETENESS AND CORRECTNESS. B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING IRRIGATION DRY-UPS. CONTACT THE RWCD WATER
- DEPARTMENT AT 480.988.9586 TO SCHEDULE A DRY-UP. C. THE CONTRACTOR SHALL PROVIDE A COPY OF THE FOLLOWING TO THE RWCD INSPECTOR BEFORE THE PIPE IS INSTALLED. 1) RESULTS OF D-LOAD TEST ON 1% OF THE PIPE LENGTH FOR EACH DAY OF BATCH PRODUCTION.
- 2) A CONCRETE CYLINDER BREAK ON 1% OF THE PIPE LENGTH FOR EACH DAY OF BATCH PRODUCTION.
- 3) THE DATE OF PIPE MANUFACTURE AND CLASS OF PIPE SHALL APPEAR ON EVERY LENGTH OF PIPE DELIVERED TO THE JOBSITE. ALL PIPE SHALL HAVE A MINIMUM 14 DAYS OF CURE TIME BEFORE INSTALLATION. D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES PRIOR TO EXCAVATION AND AVOID DAMAGE TO SAME.
- CALL 811 OR 602.263.1100 FOR BLUE STAKE TWO WORKING DAYS PRIOR TO DIGGING. IF AN UNIDENTIFIED UTILITY IS ENCOUNTERED DURING CONSTRUCTION, ALL CONSTRUCTION ACTIVITIES SHALL CEASE UNTIL THE UTILITY IS POTHOLED TO VERIFY RWCD CLEARANCE REQUIREMENTS ARE MET AND A PLAN TO RESOLVE CLEARANCE DEFICIENCIES, SUBMITTED BY THE CONTRACTOR, IS ACCEPTED BY RWCD.
- E. THE CONTRACTOR SHALL ENSURE NO CONSTRUCTION DEBRIS IS ALLOWED TO ENTER ANY RWCD DITCH OR FACILITY DURING CONSTRUCTION.
- F. WHEN RELOCATING AN EXISTING RWCD FACILITY, REMOVAL OF THE EXISTING FACILITY SHALL OCCUR ONLY DURING AN RWCD AUTHORIZED DRY-UP AND/OR AFTER THE NEW FACILITY IS OPERATIONAL
- G. RWCD STRUCTURES ARE TO BE POURED MONOLITHICALLY. SHOULD IT BE NECESSARY TO CONSTRUCT AN RWCD STRUCTURE USING MULTIPLE CONCRETE POURS, THE CONTRACTOR WILL BE REQUIRED TO USE AN RWCD APPROVED METHOD OF WATER STOP ON EACH STRUCTURE THAT IS TO BE CONSTRUCTED USING MULTIPLE CONCRETE POURS. CONTACT RWCD'S
- CONSTRUCTION INSPECTOR AT 480.267.8999 TO COORDINATE. H. GRINDING AND/OR PATCHING OF NEW DELIVERY STRUCTURES, MANHOLES, HEADWALLS, AND RADIAL GATE STRUCTURES OR ANY CONCRETE STRUCTURE TO CORRECT DEFICIENCIES THAT RESULT FROM IMPROPER GRADE SETTING, OR CONSTRUCTION
- METHODS, OR BREAKAGE DUE TO ANY CIRCUMSTANCES SHALL NOT BE PERMITTED. I. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING RWCD FACILITY (HEADWALL, PIPE, DITCH, ACCESS ROADS, ETC.) DAMAGED DURING CONSTRUCTION AS DIRECTED BY THE RWCD INSPECTOR. THE REPAIRED FACILITY SHALL BE AT THE
- LOCATION, ELEVATION AND GRADES PRIOR TO CONSTRUCTION OR AS DIRECTED. J. RWCD MANHOLES ARE TO BE IDENTIFIED AND PROTECTED AT ALL TIMES BEFORE, DURING AND AFTER CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO INSTALL, AT A MINIMUM, TWO (2) 2X4s VERTICALLY ON OPPOSITE SIDES OF EACH
- MANHOLE TO PROVIDE IDENTIFICATION OF THE MANHOLE. CONTACT RWCD'S CONSTRUCTION INSPECTOR AT 480.267.8999 TO COORDINATE.
- 4. TRENCH EXCAVATION: A. TRENCH EXCAVATION, BACKFILLING AND COMPACTION FOR RWCD FACILITIES SHALL BE PER MAG SPEC SECTION 601, OR AS MODIFIED ON THE PLAN. BACKFILLING SHALL NOT BEGIN ON ANY PIPE UNTIL THE LINE HAS BEEN APPROVED BY RWCD'S INSPECTOR. BACKFILLING SHALL CONSIST OF ABC PLACED IN LIFT DEPTHS PER MAG SPEC 601.4.2. ALL OTHER LIFTS SHALL BE A MAX OF TWO (2) FEET. ABC BACKFILL SHALL EXTEND TO TWELVE (12) INCHES ABOVE THE TOP OF THE PIPE. COMPACTION OF THE BEDDING MATERIAL SHALL BE PER MAG SPEC 601.4.5. THE TRENCH BACKFILL SHALL BE THOROUGHLY COMPACTED TO THE DENSITIES LISTED ON THE PLAN OR AS SPECIFIED IN MAG SPEC 601.4.4, WHICHEVER IS MORE STRINGENT. MECHANICAL COMPACTION FROM THE BOTTOM OF THE TRENCH TO 1' ABOVE THE PIPE SHALL BE ACCOMPLISHED BY HAND OR WALK BEHIND EQUIPMENT SUCH AS A WACKER OR JUMPING JACK STYLE COMPACTOR, OR OTHER, AS APPROVED BY THE RWCD INSPECTOR. CONTRACTOR MAY SUBSTITUTE 1/2 SACK CLSM PER MAG SPEC SECTION 604 FOR BACKFILL UP TO SPRINGLINE. THE RWCD
- INSPECTOR MAY REQUIRE THE USE OF VIBRATORY EQUIPMENT IN CONJUNCTION WITH THE PLACEMENT OF CLSM MATERIAL COMPACTION TESTS SHALL BE PERFORMED AT ALL STRUCTURES AND AT A MINIMUM OF EVERY 300 FEET ALONG THE PIPE AND AT LOCATIONS SPECIFIED BY THE RWCD INSPECTOR. A RESPONSIBLE PARTY FOR COMPACTION TESTING SHALL BE PRESENT DURING BACKFILLING OF ALL RWCD FACILITIES (INSTALLATIONS AND REMOVALS). COPIES OF THE COMPACTION TESTS ARE TO BE SUBMITTED TO THE RWCD INSPECTOR AT THE CONCLUSION OF EACH DAY

#### **RWCD GENERAL NOTES (CONTINUED):**

#### 5. UTILITY CROSSINGS:

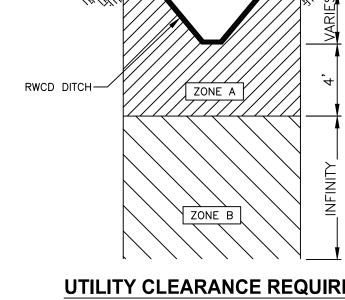
- A. CALL THE RWCD INSPECTOR AT 480.267.8999 PRIOR TO MAKING THE UTILITY CROSSING. A PERMIT MAY BE REQUIRED FOR EACH UTILITY THAT CROSSES THE RWCD FACILITY.
- B. UTILITIES CROSSING RWCD SHALL MEET THE CLEARANCES SHOWN IN RWCD STANDARD DETAIL 41. C. WET UTILITIES (IE, WATER, SEWER, ETC.) CROSSING THE NEW RWCD IRRIGATION PIPE SHALL BE CONSTRUCTED PRIOR TO THE
- D. THERE SHALL BE NO JOINTS IN THE WET UTILITY LINES FOR A DISTANCE OF 8' EITHER SIDE OF THE CENTER OF THE RWCD
- E. WET UTILITIES SHALL BE BACKFILLED WITH ½ SACK SLURRY FROM THE UTILITY LINE UP TO 6" BELOW THE RWCD IRRIGATION PIPE FOR 7' EITHER SIDE OF THE CENTERLINE OF THE RWCD PIPE.
- F. WHERE PROPOSED WET UTILITY LINES WILL CROSS AN EXISTING RWCD PIPE LATERAL, THE WET UTILITIES SHALL BE INSTALLED VIA HORIZONTAL EARTH AUGER BORE IN A STEEL CASING PIPE, OR IF THE RWCD PIPE IS PLANNED TO BE REMOVED, THE WET UTILITIES SHALL BE INSTALLED AFTER THE NEW RWCD FACILITY IS OPERATIONAL AND THE OLD RWCD PIPE IS REMOVED. A PROFILE OF THE CROSSING SHALL BE PROVIDED AND THE TOP OF CASING PIPE AND OUTSIDE DIAMETER OF THE RWCD
- IRRIGATION PIPE ELEVATIONS SHALL BE SHOWN ON THE PLANS AND MEET THE CLEARANCES SHOWN IN RWCD DETAIL 41. G. WHERE PROPOSED WET UTILITY LINES WILL CROSS AN EXISTING RWCD OPEN DITCH LATERAL AND THE LATERAL WILL BE RELOCATED WITH THE CURRENT PROJECT, THE CONTRACTOR MAY REQUEST A DRY-UP FROM RWCD TO CROSS VIA OPEN CUT. IF A DRY-UP IS NOT AVAILABLE OR IF THE OPEN DITCH LATERAL IS NOT BEING RELOCATED WITH THE CURRENT PROJECT THEN THE PROPOSED WET UTILITY SHALL BE INSTALLED VIA A HORIZONTAL EARTH AUGER BORE IN A STEEL CASING PIPE. A PROFILE OF THE CROSSING SHALL BE PROVIDED AND THE TOP OF CASING PIPE AND OUTSIDE DIAMETER OF THE RWCD IRRIGATION PIPE ELEVATIONS SHALL BE SHOWN ON THE PLANS AND MEET THE CLEARANCES SHOWN IN RWCD DETAIL 41.
- H. DRY UTILITIES MAY BE INSTALLED VIA OPEN CUT TRENCH ACROSS A PROPOSED RWCD LATERAL, IF INSTALLED BEFORE THE RWCD FACILITY IS CONSTRUCTED. IF A DRY UTILITY WILL CROSS AN EXISTING RWCD PIPE OR DITCH THAT WILL REMAIN, THE DRY UTILITY SHALL BE INSTALLED VIA A BORE. BORE PITS SHALL BE LOCATED OUTSIDE ANY RWCD PROPERTY AND SHALL BE LOCATED A SUFFICIENT DISTANCE AWAY FROM THE RWCD FACILITY SUCH THAT THE RWCD FACILITY IS NOT COMPROMISED DURING EXCAVATION OR BORING.
- I. IF ANY EXISTING UTILITY IS FOUND TO HAVE LESS THAN 2 FT OF CLEARANCE TO THE RWCD FACILITIES, THE CONTRACTOR SHALL CONSULT WITH THE RWCD INSPECTOR AND THE OTHER UTILITY COMPANY FOR EVALUATION OF CLEARANCE AND
- UTILITY CROSSINGS AT THE RWCD MAIN CANAL, EXTENSION CANAL OR DRAIN DITCH SHALL BE INSTALLED BY HORIZONTAL EARTH AUGER BORE. NO BORE PITS SHALL BE ALLOWED WITHIN RWCD PROPERTY. ALL UTILITIES SHALL BE ENCASED IN A STEEL CASING. NO UTILITIES SHALL VARY FROM UTILITY CROSSING REQUIREMENTS WITHOUT WRITTEN APPROVAL FROM
- K. ALL OVERHEAD WIRES THAT SUSPEND OVER THE RWCD RIGHT OF WAY SHALL HAVE 25 FEET MINIMUM OVERHEAD CLEARANCE.
- A. CALL THE RWCD INSPECTOR AT 480.267.8999 FOR RWCD INSPECTIONS. THE CONTRACTOR SHALL COORDINATE DAILY WITH THE RWCD INSPECTOR RELATIVE TO WORK ONGOING THAT DAY AND UPCOMING WORK THAT REQUIRES INSPECTION WITHIN THE NEXT 48 HOURS.
- B. THE CONTRACTOR SHALL PROVIDE A SAFE TRENCH FOR THE RWCD INSPECTOR TO INSPECT WORK INCLUDING SHORING AND
- C. CONSTRUCTION STAKING LATH SHALL INCLUDE STATIONING CONSISTENT WITH STATIONING SHOWN ON THE APPROVED
- IRRIGATION PLANS. D. MANHOLE AND STRUCTURE RIM ELEVATIONS MUST BE VERIFIED DURING THE CONSTRUCTION BY A "HUB" PLACED BY
- RWCD MAY REJECT ANY PART OR PORTION OF THE SUBJECT PIPE AT ANY POINT DURING THE INSTALLATION PROCESS AT ITS SOLE DISCRETION. SUCH DETERMINATION WILL BE BASED ON, AMONG OTHER POINTS, CURRENT ASTM STANDARDS FOR THE
- 7. PROJECT ACCEPTANCE: A. THE JOB SITE, AT THE COMPLETION OF THE CONSTRUCTION, SHALL BE CLEANED OF ANY DEBRIS OR SPOIL RESULTING FROM
- THE CONSTRUCTION INCLUDING REMOVAL OF CONSTRUCTION DEBRIS FROM RWCD DITCHES. B. THE OWNER/DEVELOPER SHALL ACQUIRE PRIOR AUTHORIZATION FROM THE RWCD WATER DEPARTMENT AND RWCD INSPECTOR PRIOR TO PERFORMING AN AS-BUILT SURVEY. MANHOLE LIDS MUST BE TAKEN OFF BY PIPELINE CONTRACTOR. A NO-FEE DRY-UP IS REQUIRED FOR AS-BUILT SURVEY.
- C. THE OWNER/DEVELOPER SHALL PROVIDE CERTIFIED AS-BUILTS FOR THE LOCATION. ELEVATION AND SIZE OF ALL RWCD FACILITIES FOR RWCD RECORDS PRIOR TO RELEASING THE PROJECT BOND.
- A. RWCD'S GENERAL NOTES ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION AT ANY TIME PER OUR DISCRETION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE CONFORMANCE TO THE LATEST RWCD GENERAL NOTES. CONTACT RWCD'S CONSTRUCTION INSPECTOR AT 480.267.8999 TO RECEIVE THE MOST RECENT RWCD GENERAL NOTES.



#### **UTILITY CLEARANCE REQUIREMENTS**

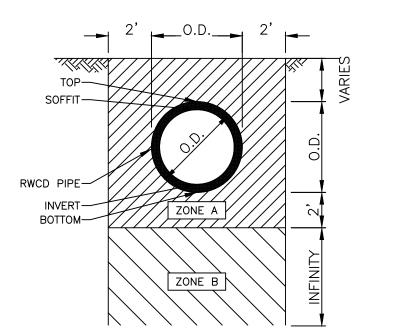
ZONE A: NO UTILITIES PERMITTED WITHIN THIS ZONE. \*RWCD STRUCTURE IS DEFINED AS A TURNOUT

STRUCTURE, MANHOLE, HEADWALL, ETC.



#### UTILITY CLEARANCE REQUIREMENTS

ZONE A: NO UTILITIES PERMITTED WITHIN THIS ZONE. ZONE B: NO LONGITUDINAL UTILITIES PERMITTED WITHIN THIS ZONE. CROSSING UTILITIES PERMITTED WITH CROSSING PERMIT ISSUED BY RWCD. CONTACT RWCD INSPECTOR AT 480.267.8999 FOR CROSSING



#### **UTILITY CLEARANCE REQUIREMENTS**

ZONE A: NO UTILITIES\* PERMITTED WITHIN THIS ZONE.

ZONE B: NO LONGITUDINAL UTILITIES PERMITTED WITHIN THIS ZONE. CROSSING UTILITIES PERMITTED WITH CROSSING PERMIT ISSUED BY RWCD. CONTACT RWCD INSPECTOR AT 480.267.8999 FOR CROSSING PERMIT.

O.D. = OUTSIDE DIAMETER OF THE BARREL OF THE PIPE.

CLEARANCE SHALL ACCOUNT FOR PIPE THICKNESS

PE SIZE (IN)	PIPE THICKNESS (IN)
30"	4.5"
36"	5"
42"	5.5"

\*UTILITIES INCLUDE ANY WATER LINE, SEWER LINE, RECLAIMED WATER LINE, GAS LINE, ELECTRICAL LINE, LANDSCAPE IRRIGATION LINE, COMMUNICATIONS LINE, ETC.

RWCD-41



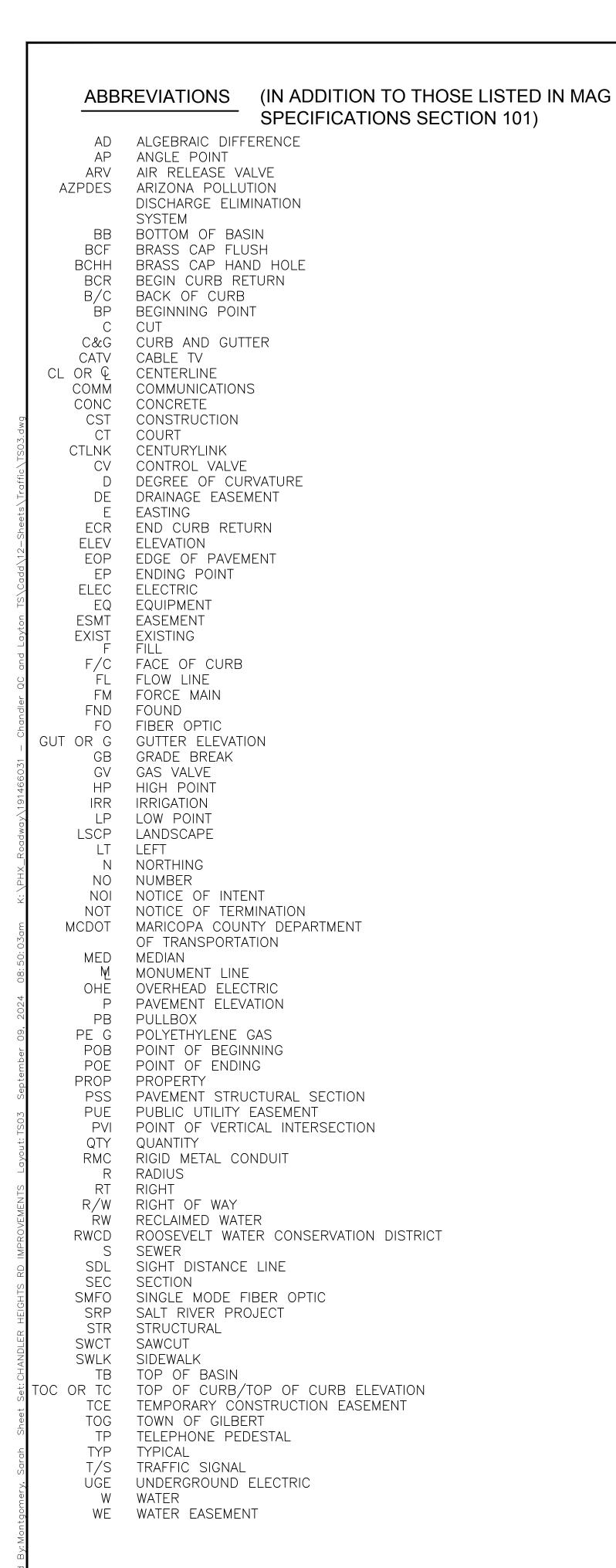
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> Ō CITY PROJECT NO. DS2202.401

GN01

C.O.C. LOG NO. CIV23-0048 SHEET DWG



#### SYMBOL LEGEND

<u>NEW</u>	<u>EXIST</u>	SYMBOL DESCRIPTION
	=======	VERTICAL CURB AND GUTTER
		SINGLE VERTICAL CURB
		SIDEWALK
		CATCH BASIN
		HEAD WALL
		SCUPPER
		RIPRAP
		RIGHT-OF-WAY LINE
		EASEMENT LINE
		CUT SLOPE
		FILL SLOPE
		BASIN GRADING TOP OF BERM BASIN GRADING TOP OF BASIN BASIN GRADING BOTTOM OF BASIN SAWCUT
	OOOOO	FENCE
		WALL
	SD	STORM DRAIN PIPE
	COX	COX CABLE TELEVISION LINE (FIBER OPTIC)
	——————————————————————————————————————	UNDERGROUND ELECTRIC
	G	NATURAL GAS LINE
	OHE	OVERHEAD UTILITIES
	S	
	SRP IRR	
	CTL	CENTURYLINK LINE FIBER OPTIC
	FO	FIBER OPTIC
		RECLAIMED WATER LINE
	TS	TRAFFIC SIGNAL LINE
		WATER LINE

UTILITY COMPANY	UTILITY CONTACTS	DATE SUBMITTED
сох	JEFF KRAUSE	6/19/2023
LUMEN	KEVIN WAGNER	6/19/2023
MCI - VERIZON	JEREMY SLAUGHTER	6/19/2023
ROOSEVELT WATER CONSERVATION DISTRICT	TABATHA LANGLAND	9/26/2023
SOUTHWEST GAS	GENE FLOREZ	6/19/2023
SRP LAND AGENT	JESSICA MILES	6/19/2023
SRP TRANSMISSION	PAUL GRANT	9/6/2023
SRP DISTRIBUTION	MICHAEL LARANCE	9/6/2023

EXIST	SYMBOL DESCRIPTION  ALUMINUM CAP FLUSH  ALUMINUM CAP IN HAND HOLE  BRASS CAP FLUSH  BRASS CAP IN HAND HOLE  PK NAIL  BOLLARD  CABLE TELEVISION MANHOLE  CABLE TELEVISION VAULT
E ET EV	ELECTRICAL CABINET  ELECTRICAL MANHOLE  ELECTRICAL METER  ELECTRICAL PULL BOX  ELECTRICAL TRANSFORMER  ELECTRICAL VAULT  FIBER MANHOLE  FIBER VAULT
GM)	FIRE HYDRANT  GAS MARKER  GAS METER
GV  CV  S   R	GAS VALVE IRRIGATION CONTROL VALVE IRRIGATION MANHOLE
	MAILBOX  PALM TREE  POWER DOWN GUY  POWER POLE
	SANITARY SEWER MANHOLE SIGN STORM DRAIN MANHOLE STREETLIGHT WITH MAST ARM TELEPHONE MANHOLE TELEPHONE PEDESTAL TELEPHONE PULL BOX TELEPHONE RISER TELEPHONE VAULT TRAFFIC SIGNAL
TS  TS  WM  WV	TRAFFIC SIGNAL PULL BOX TRAFFIC SIGNAL WITH MAST TRAFFIC SIGNAL VAULT TREE WATER METER WATER VALVE

WATER BACKFLOW PREVENTER

 $\otimes$   $\otimes$ 

<u>NEW</u>



Horn Kimley»



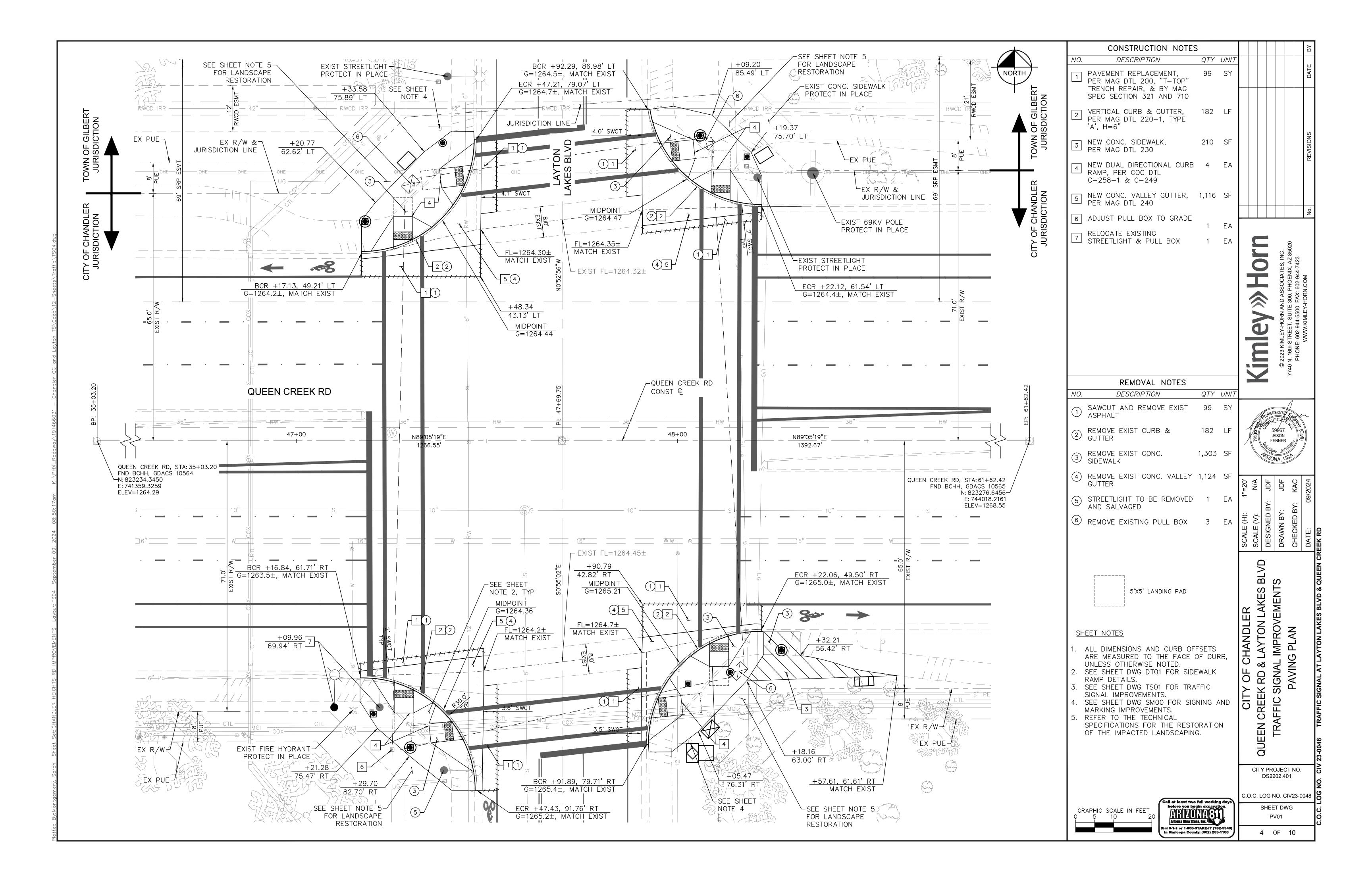
BL CHANDLER & LAYTON LAKES E

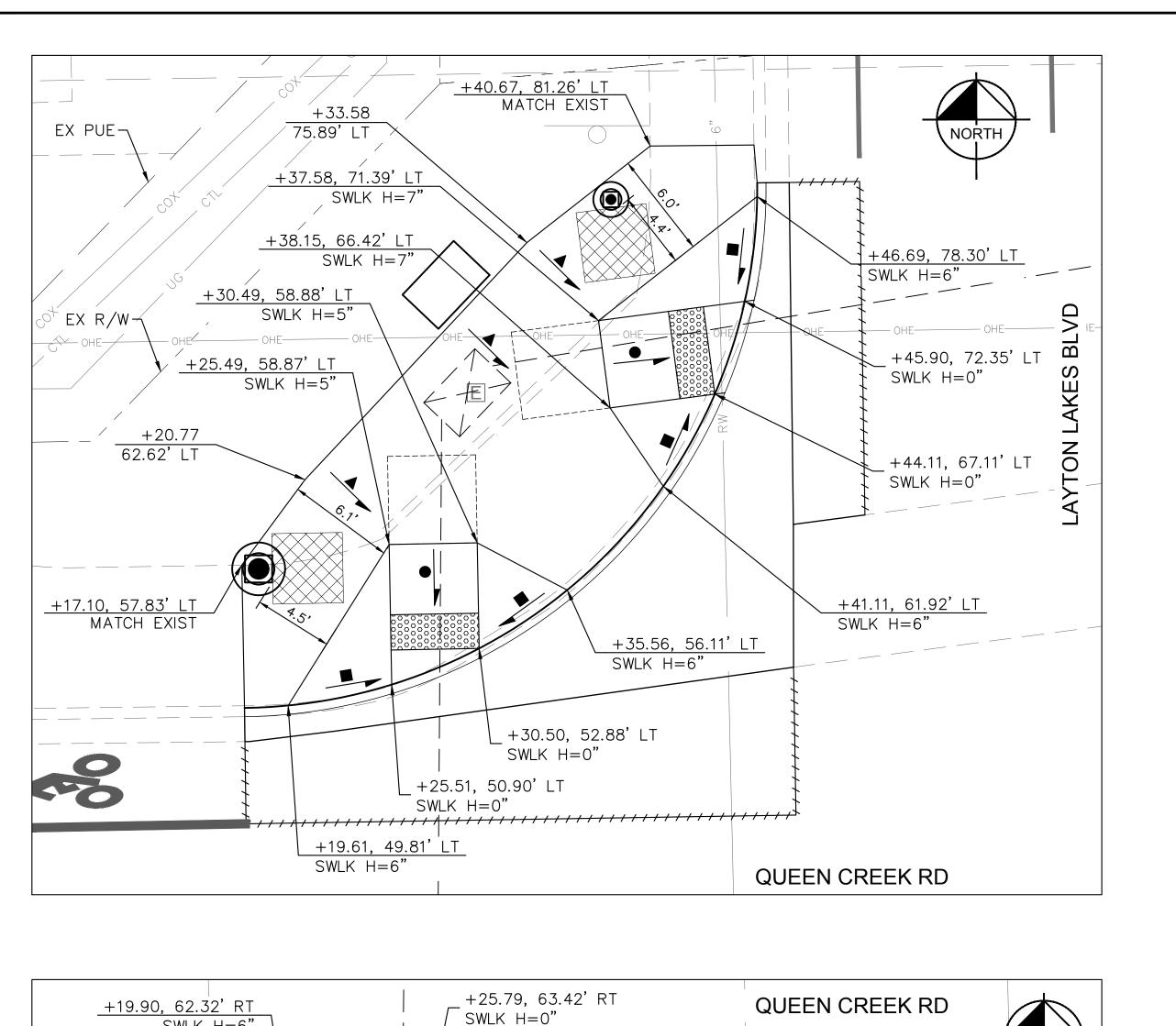
**ABBREVIATIONS** CITY OF CREEK RD 8 QUEEN

> CITY PROJECT NO. DS2202.401

C.O.C. LOG NO. CIV23-0048

SHEET DWG LN01



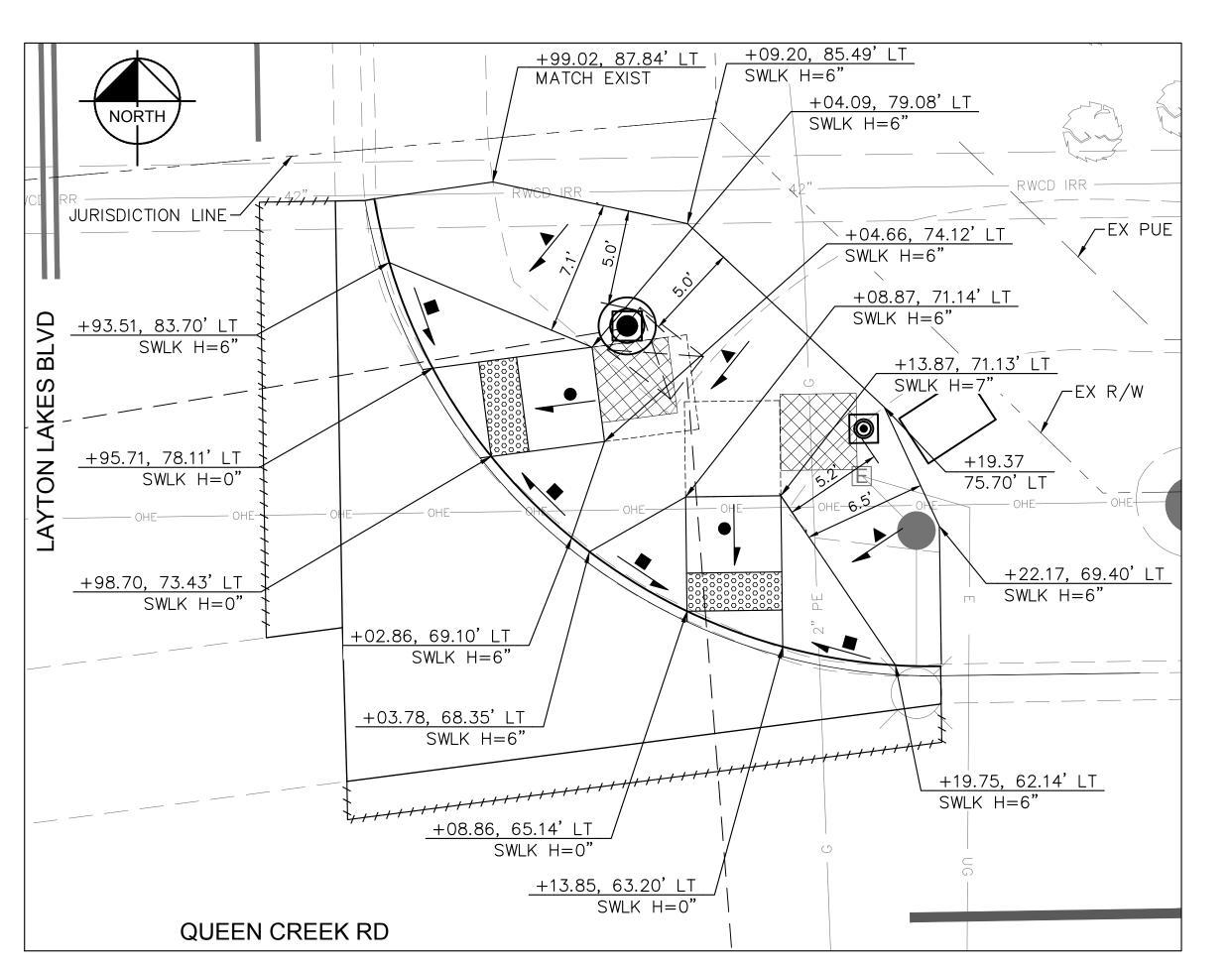


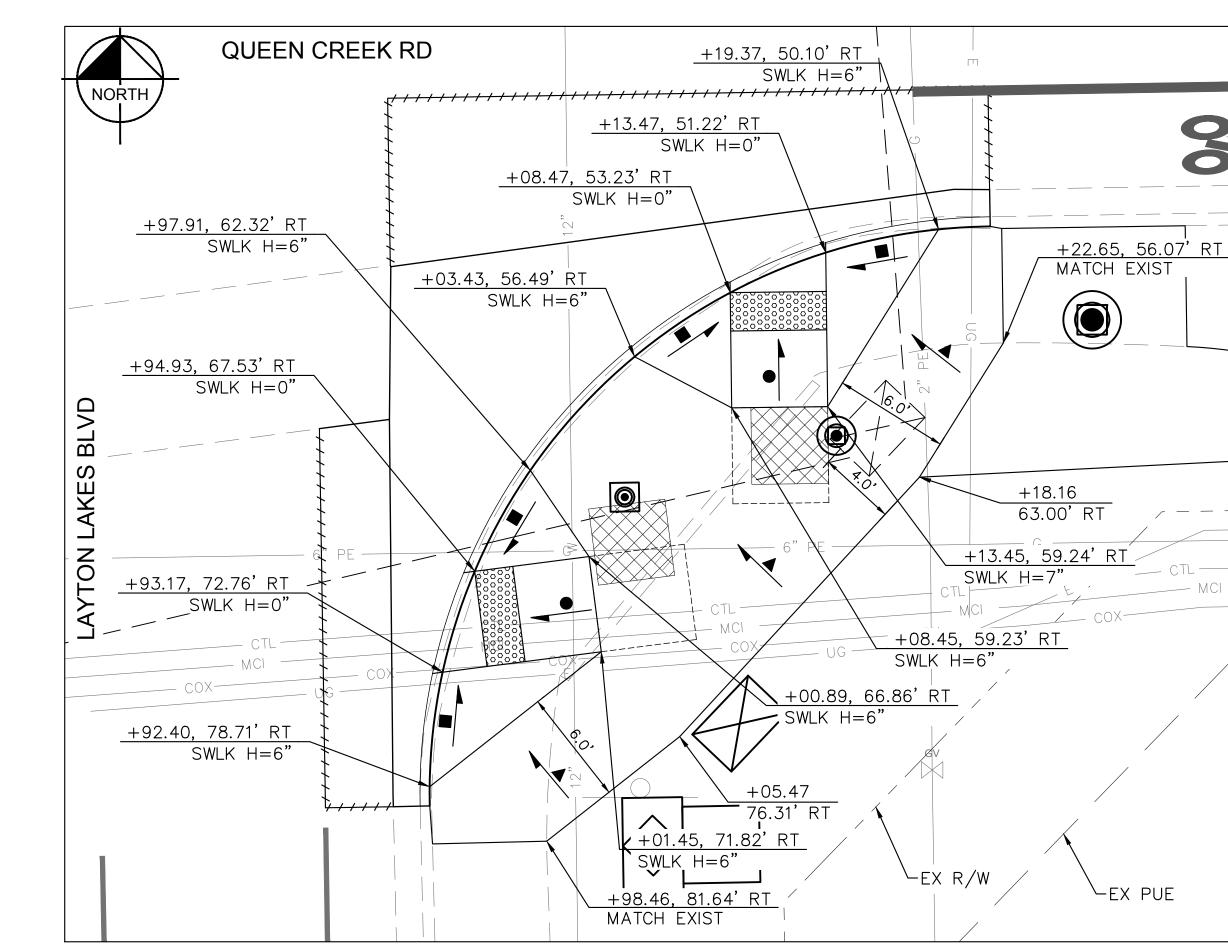
+30.80, 65.41' RT

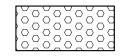
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+35.84, 68.66' RT

SWLK H=6"



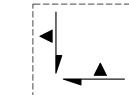




DETECTABLE WARNING PANEL



MINIMUM ADA 4'X4' TURNING SPACE



5'X5' LANDING PAD



1.5% MAXIMUM SLOPE



8% MAXIMUM RAMP SLOPE



10% MAXIMUM WING SLOPE



BL S CITY OF CHANDLER
JEEN CREEK RD & LAYTON LAKES B
TRAFFIC SIGNAL IMPROVEMENTS
SIDEWALK RAMP DETAILS

EEN

CITY PROJECT NO.

DS2202.401

5 OF 10

#### SHEET NOTES

90

EX PUE

- ALL DIMENSIONS AND CURB OFFSETS ARE MEASURED TO THE BACK OF CURB, UNLESS OTHERWISE NOTED. SIDEWALK HEIGHT IS IN REFERENCE TO
- THE GUTTER ELEVATION AND DOES NOT INCLUDE THE SIDEWALK SLOPE. . SEE SHEET DWG PV01 FOR PAVING
- 4. SEE SHEET DWG TS01 FOR TRAFFIC SIGNAL PLAN.

C.O.C. LOG NO. CIV23-0048 SHEET DWG DT01

Call at least two full working days

GRAPHIC SCALE IN FEET

+36.61, 69.30' RT SWLK H=6" +16.72, 68.44' RT MATCH EXIST +40.75, 73.64' RT SWLK H=0" +43.73, 78.34' RT EX R/W-SWLK H=0" <u>+25.81, 71.43</u>' RT SWLK H=7+46.53, 86.86' RT 75.47' RT SWLK H=6" +30.81, 71.41' RT SWLK H=6" +34.79, 74.32' RT SWLK H=2" +29.70 82.70' RT

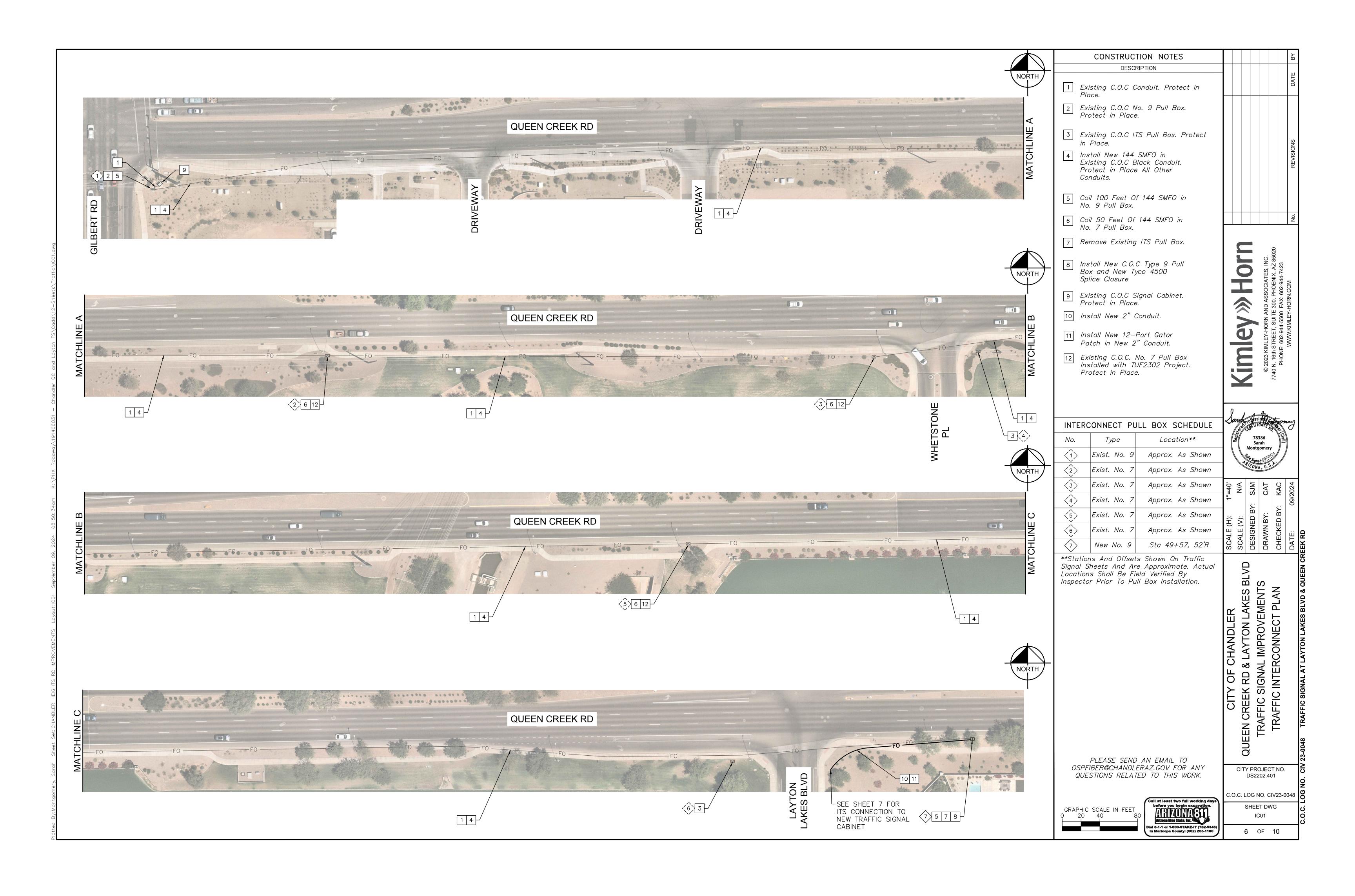
+40.78, 91.76' RT MATCH EXIST

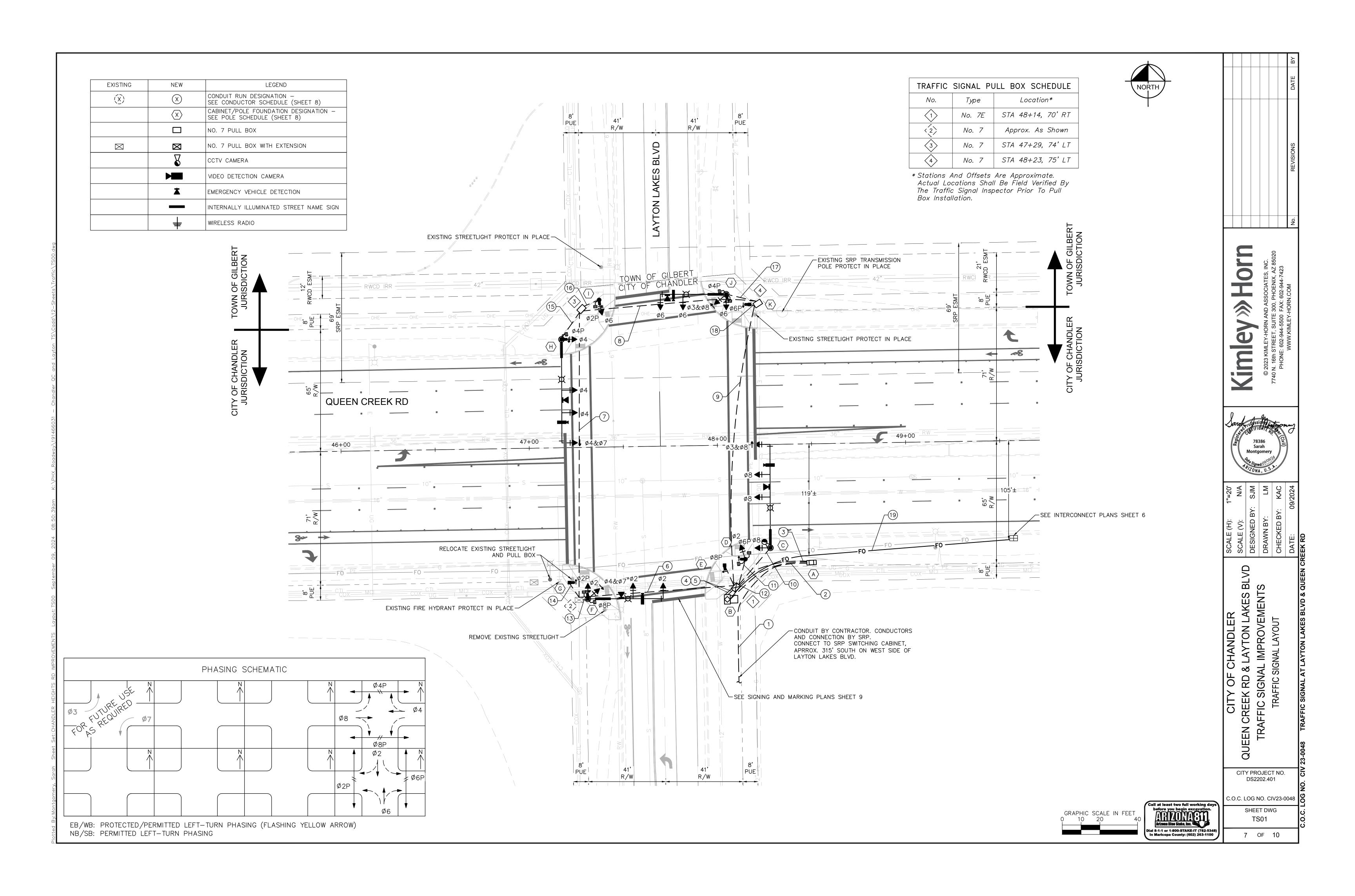
+35.35, 79.28' RT

SWLK H=1"

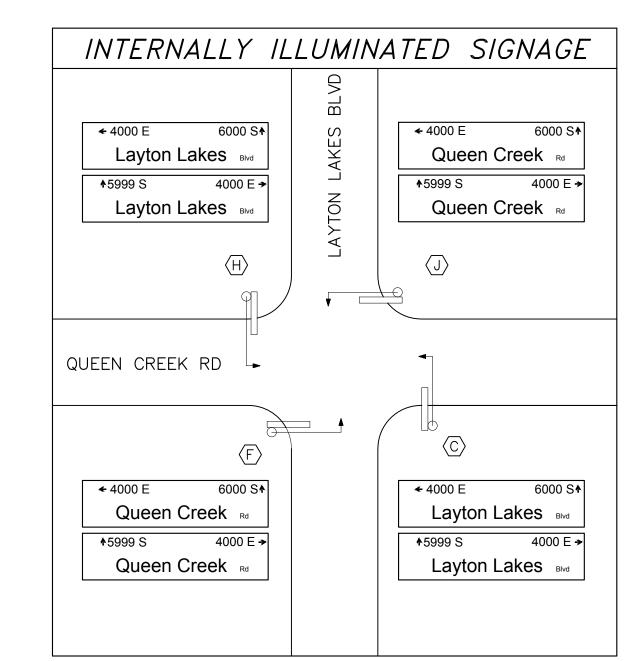
SWLK H=6"

EX PUE-





	CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	91	10	11	12	13	14	15	16	17l	18	19
	CONDUIT SIZE IN INCHES	2.5	2	2	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	<u>:</u>
AWG				_	•	<u> </u>		<u>' ' '</u>							اتا		<u> </u>			_
	POLE C				1						1									_
	POLE D				1							1								_
#14 25 CONDUCTOR	POLE E				1								1							_
20-1 IMSA	POLE F				1		1							1						_
SIGNAL CABLES	POLE G				1		1								1					_
(NOTE 2)	POLE H				1		1	1								1				_
	POLE I				1		1	1									1			_
	POLE J				1					1								1		
	POLE K				1					1									1	
	POLE C (Ø3 & Ø8)					1					1									
VIDEO DET. CABLE	POLE F (Ø2)					1	1							1						
VIDEO DET. CABLE	POLE H (Ø4 & Ø7)					1	1	1								1				
	POLE J (Ø6)					1				1								1		
#6 (NOTE 1)	SERVICE 120/240V ●		3																	
BLACK-HOT																				
WHITE-NEUTRAL	SIGNAL CABINET 120V																			
GREEN-EQUIPMENT GROUND																				
STREET LIGHTING, 120V	#10 (RED) SOLID			1			1	1		1	1			1		1		1		L
	COMMON (WHITE)			1			1	1		1	1			1		1		1		L
STREET NAME SIGN	#10 (BROWN) SOLID			1			1	1		1	1			1		1		1		L
LIGHTING, 120V	COMMON (WHITE)			1			1	1		1	1			1		1		1		
#8	CONDUIT BOND (GREEN)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
CCTV	CCTV CABLE					1					1									
	FIRE PREEMPT Ø2					1	1							1						
FIRE DET. CABLE	FIRE PREEMPT Ø4					$\rightarrow$	1	1								1				_
INC DET. CADLE	FIRE PREEMPT Ø6					1				1								1		_
	FIRE PREEMPT Ø8					1					1									<u> </u>
INTERCONNECT CABLE	12-PORT GATOR PATCH																			1



SEE CHANDLER STANDARD DETAIL C-606 FOR SIGN FORMATS.

#### **GENERAL NOTES:**

1. MINIMUM NUMBER OF CONDUCTORS REQUIRED (NON-IMSA TYPE) 2. MINIMUM NUMBER OF CABLES REQUIRED (INCLUDING IMSA TYPES)

- 1. THE EMERGENCY PREEMPTION SHALL BE GTT/OPTICOM MODEL 721 DETECTOR (ONE PER APPROACH), MODEL 762 PHASE SELECTOR (TWO PER CABINET), NO AUXILIARY PANEL, AND MODEL 138 DETECTOR CABLE (WIRE USED FROM SIGNAL CABINET TO DETECTOR) OR APPROVED EQUIVALENT.
- 2. ALL POLE AND CABINET FOUNDATION LOCATIONS SHALL BE APPROVED BY THE CITY CIP INSPECTOR BEFORE PLACEMENT OF CONCRETE.
- 3. THE VIDEO DETECTION CAMERA SYSTEM FOR THE TRAFFIC SIGNAL SHALL BE "FLIR TRAFISENSE DUAL 2", INCLUDING CAMERA, CABLING AND OTHER EQUIPMENT NECESSARY FOR A COMPLETE OPERATING SYSTEM. CONTRACTOR SHALL COORDINATE WITH THE CITY OF CHANDLER AT (480) 782-3471 BEFORE ORDERING ANY EQUIPMENT.
- 4. ALL SIGNAL HEADS AND PEDESTRIAN HEAD ALIGNMENTS AND MOUNTS SHALL BE APPROVED BY THE CITY PRIOR TO THEIR INSTALLATION.
- 5. CONTRACTOR SHALL COORDINATE WITH OSP FIBER SPECIALIST OF THE CITY OF CHANDLER AT OSPFIBER@CHANDLERAZ.GOV FOR FIBER SPLICE DETAILS AT LEAST 2 WEEKS PRIOR TO SPLICING ACTIVITY.
- 6. IF QUESTIONS ARISE BEFORE OR DURING CONSTRUCTION RELATED TO OVERHEAD CLEARANCE REQUIREMENTS PLEASE CONTACT SRP SAFETY SERVICES FOR ASSISTANCE, AT 602-236-8117. SRP SAFETY SERVICES SHALL BE CONTACTED FOR A PRE-CON MEETING TO REVIEW THE WORK PLAN AND CLEARANCE REQUIREMENTS FOR ANY HEAVY EQUIPMENT OR ANY CONSTRUCTION ACTIVITIES IN THE PROXIMITY OF OH ELECTRICAL
- 7. THE CITY OF CHANDLER REQUIRES AT LEAST TWO INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IISMA) CERTIFIED TRAFFIC SIGNAL TECHNICIANS ON SITE DURING ALL PHASES OF ANY TRAFFIC SIGNAL WORK. ONE TECHNICIAN MUST AT LEAST BE A LEVEL II. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE VERIFICATION OF CERTIFICATION. IF A JOB SITE IS INSPECTED AND A CERTIFIED TECHNICIAN IS NOT ON SITE, A STOP WORK ORDER WILL BE ISSUED. TEMPORARY AND CONTRACT EMPLOYEES DO NOT SATISFY THIS REQUIREMENT.
- 8. ALL TRAFFIC SIGNAL EQUIPMENT AND CONSTRUCTION SHALL CONFORM TO THE CITY OF CHANDLER STANDARD SPECIFICATIONS, DRAWINGS, AND PROCEDURES (CURRENT VERSION) SUPPLEMENTED BY ADOT SPECIFICATIONS AND STANDARD DRAWINGS AND MAG SPECIFICATIONS AND STANDARD DRAWINGS.
- 9. THE MATERIAL LIST SHALL BE SUPPLIED AT LEAST TWO WEEKS PRIOR TO ORDERING. THE MATERIAL LIST SHALL INCLUDE SHOP DRAWINGS FOR SIGNAL POLES, MAST ARMS, FOUNDATIONS, CONDUITS, VAULTS, PULL BOXES, AND DATA SHEETS FOR ALL SIGNAL EQUIPMENT, INCLUDING, BUT NOT LIMITED TO, SIGNAL CABINET EQUIPMENT, TRAFFIC CONTROLLER, DETECTION SYSTEM, CCTV CAMERA AND SYSTEM, GATOR PATCH CABLES, PRE-EMPTION EQUIPMENT, ILLUMINATED STREET NAME SIGNS, VEHICULAR AND PEDESTRIAN INDICATIONS, AND MOUNTINGS.
- 10. LOCATION OF UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY, THE ENGINEER DOES NOT GUARANTEE THESE LOCATIONS NOR THE FACT THAT SOME MAY BE LEFT OUT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ARIZONA BLUE STAKE AND ALL INVOLVED AGENCIES PRIOR TO START OF CONSTRUCTION.
- 11. TOP OF SIGNAL POLE FOUNDATIONS AND PULL BOXES SHALL BE AT THE SAME ELEVATION AS THE BACK OF SIDEWALK.
- 12. NEW CONDUIT UNDER ROADWAY SHALL BE PLACED BY JACKING OR BORING METHOD. CONTRACTOR SHALL NOT TRENCH EXISTING PAVEMENT WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- 13. ALL NEW VEHICLE AND PEDESTRIAN INDICATIONS SHALL HAVE LED INDICATIONS. ALL NEW PEDESTRIAN INDICATIONS SHALL BE COUNTDOWN TYPE. SEE CITY APPROVED PRODUCT LIST FOR LED MODULE SPECIFICATIONS.
- 14. CONTRACTOR SHALL PROVIDE ADA ACCESS PAD TO PEDESTRIAN PUSH BUTTONS TO MEET ALL ADA ACCESSIBILITY REQUIREMENTS. PUSH BUTTON MUST BE LOCATED NEXT TO A LEVEL LANDING PAD (36"X 48"MINIMUM). LEVEL IS DEFINED AS HAVING A SLOPE LESS THAN 2%. LANDING PAD MUST BE WITHIN 5' EXTENSION OF THE CROSSWALK LINE. PUSH BUTTON MUST BE LOCATED WITHIN 6' (PREFERRED) OR 10' (MAXIMUM) FROM THE CURB. TWO PUSH BUTTONS ON THE SAME CORNER MUST BE SEPARATED BY AT LEAST 10'.
- 15. MOUNTING LOCATION AND ORIENTATION OF ALL PEDESTRIAN INDICATIONS AND SIDE MOUNT SIGNAL POLE INDICATIONS SHALL BE CONFIRMED WITH THE CITY CIP INSPECTOR AND TRAFFIC OPERATIONS DIVISION IN THE FIELD PRIOR TO DRILLING POLES.
- 16. CONTRACTOR IS RESPONSIBLE FOR OBTAINING CONSTRUCTION AND TEMPORARY TRAFFIC CONTROL PERMITS FROM THE CITY OF CHANDLER, ARIZONA DEPARTMENT OF TRANSPORTATION (IF APPLICABLE) AND MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION (IF APPLICABLE).
- 17. ALL BACKPLATES FOR MAST ARM MOUNTED SIGNAL FACES SHALL BE THE LOUVERED TYPE.
- 18. ALL CONDUCTORS USED ON THIS PROJECT SHALL CONFORM TO THE PLANS AND THE CONDUCTOR SCHEDULE GIVEN AND THE CURRENT ADOT STANDARD SPECIFICATION SUBSECTION 732-2. ALL CONDUIT USED ON THIS PROJECT SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE NOTE IN THE PLANS.
- 19. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH THE POWER SUPPLY COMPANY FOR SERVICE DROP INSTALLATION AND ENERGIZATION.

	CABINET	RAFFIC SIGNA	TYPE	LLEK		EQUIPMENT		REMARKS	LOCATION
A	PEC	METERED SERVICE PEDESTAL			TES	CO OR MYER	S	SERVICE ADDRESS: 3693 E. QUEEN CREEK RD	QUEEN CREEK RE STA. 48+49 63' RT
B			REX ATC 4 AND CONC			CAIN ATC EX TS2 CONTRO		SEE NOTES 6, 9, AND 10.	QUEEN CREEK RI STA. 48+04 82' RT
NO.	POLES LAYOUT	TYPE	MAS <sup>-</sup> SIG.	T ARM	SIC MTG.	SNALS FACE	P.B. SIGN	REMARKS	
C VID 5.0 EATOOT LUMINAIRE VMD 16.0' 12.0' CCTV		RC	55'	20'	1-II 2-II 1-V	1–FYA 2–F 1–F	_	1. SEE NOTES 1, 3, 4, 5, AND 8.	QUEEN CREEK RI STA. 48+27 55' RT
D		A (10')			1. SEE NOTES 2 AND 7.	QUEEN CREEK R STA. 48+14 61' RT			
E	<u>Į</u>	PPB	_	-	- R10-4b (L)		R10-4b		QUEEN CREEK R STA. 48+03 64' RT
F VME	VID VID EVD EVD		40'	20'	2-II 1-V 1-V 1-VII	2-F 1-F 1-FYA 2-M/H	R10-4b (L)	1. SEE NOTES 1, 2, 3, 4, 5, AND 7.	QUEEN CREEK R STA. 47+30 80' RT
G	<b>■</b> ↑	PPB	_	-	-	-	R10-4b (R)	1. SEE NOTE 2.	QUEEN CREEK R STA. 47+20 72' RT
<b>T</b>	VMD ISNS N	RC	55'	20'	1-II 2-II 1-V 1-V	1-FYA 2-F 1-F 1-M/H	R10-4b (L)	1. SEE NOTES 1, 2, 3, 4, 5, AND 7.	QUEEN CREEK R STA. 47+18 58' LT
	N —	A (10')	_	_	1–IV 1–V	1-F 1-M/H			QUEEN CREEK R STA. 47+38 78' LT
\( \frac{1}{J} \)	LUMINAIRE ISNS	N QC	35'	20'	2-II 1-V 1-V 1-VII	2-F 1-F 1-FYA 2-M/H	R10-4b (L)	1. SEE NOTES 1, 2, 3, 4, 5 AND 7.	QUEEN CREEK R STA. 48+06 80' LT
K	1	PPB	_	_	_	_	R10-4b (R)	1. SEE NOTE 2.	QUEEN CREEK R STA. 48+18 75' LT

CABINET AND POLE SCHEDULE

CABINET AND POLE SCHEDULE NOTES:

- 1. INSTALL OPTICOM 721 SERIES EMERGENCY VEHICLE DETECTOR (EVD) ON SIGNAL MAST ARM.
- 2. INSTALL TYPE I PEDESTRIAN PUSH BUTTON PER ADOT STANDARD DETAIL T.S. 11-1. CAMPBELL GUARDIAN 5.0 FS 912 WITH BLUETOOTH MODULE (501-0650).

3. INSTALL GE LUMINAIRE 120 VOLT OR APPROVED EQUAL

- 4. INSTALL NEW INTERNALLY ILLUMINATED STREET NAME SIGN (ISNS) HOUSING AND BRACKET ASSEMBLY. FURNISH AND INSTALL NEW SIGN FACES PER CITY STANDARD
- 5. INSTALL FLIR TRAFFISENSE DUAL 2 VIDEO DETECTION SYSTEM WITH PELCO ASTRO-BRAC PRODUCT #AG-0169-74-96-PNC (ONE PER APPROACH AND MOUNT ON MAST ARM OF SIGNAL).
- 6. INSTALL ETHERWAN SWITCH MODEL NO. EX78934E-OVB 12-PORT 10/100/1000BASE-T(X) POE + 4-PORT 10/1000BASE SFP TRANSCEIVERS SFPGIS20M (DDM) (FOUR

PER TRAFFIC SIGNAL CABINET). 7. INSTALL COUNTDOWN STYLE LED PEDESTRIAN SIGNAL HEADS.

- 8. INSTALL AXIS P5655-E(PTZ) CCTV CAMERA WITH AXIS T8134 60W MIDSPAN POE MOUNTED ON AXIS T91L61 WALL-AND-POLE. 9. INSTALL 12 PORT SC GÀTOR PATCH.
- 10. INSTALL ITERIS VELOCITY ARID TS2 RACK MOUNT PRODUCT #VELOCITY-RM WITH ONE ITERIS VELOCITY ARID BLUETOOTH PRODUCT #VEL-ADAPTER-BT, ONE ITERIS VELOCITY ARID WIFI PRODUCT #VEL-ADAPTER-WIFI AND ONE ITERIS VELOCITY ARID ANTENNA PRODUCT # VEL-ANT-NO-BKT.

CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL CHANGE WARNING SIGNS ON SPRING STANDS FOR ALL DIRECTIONS FOR A PERIOD OF 30 DAYS (FLAGGED AND LIGHTED) COORDINATE WITH DANNY MARTINEZ FOR TEMPORARY WARNING SIGNS. HE IS WITH THE STRIPING DEPARTMENT AND CAN BE REACHED AT DANNY.MARTINEZ@CHANDLERAZ.GOV



CITY PROJECT NO. DS2202.401

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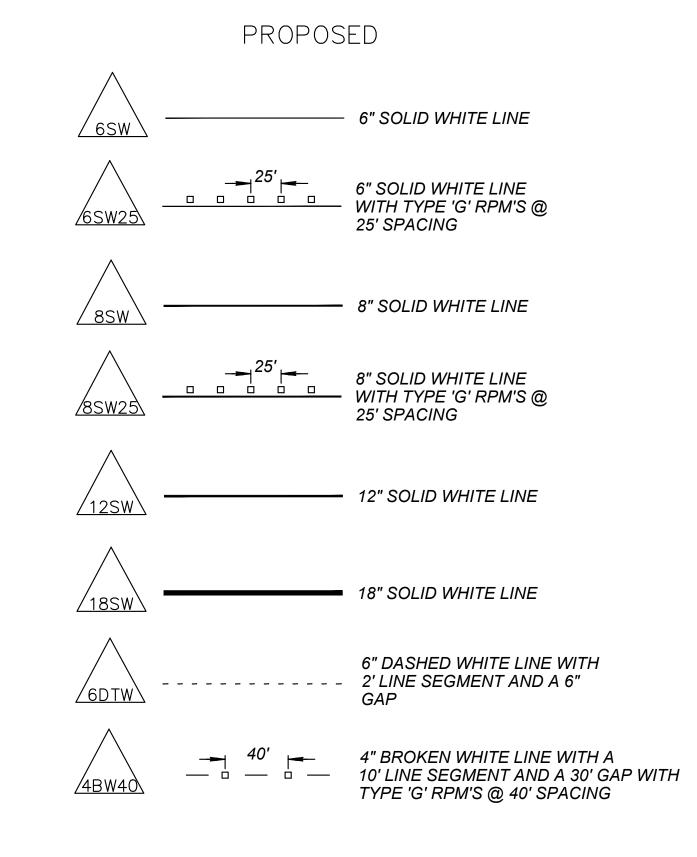
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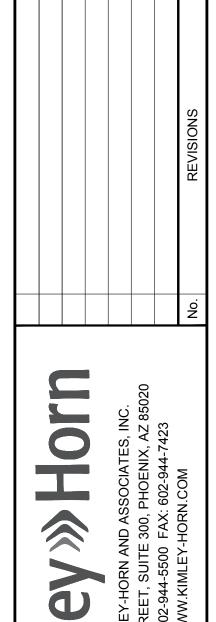
#### SIGNING AND STRIPING GENERAL NOTES (REVISED 12-18-19)

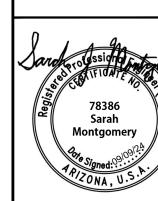
- 1. THE CITY TRANSPORTATION ENGINEER'S OFFICE SHALL BE NOTIFIED 5 BUSINESS DAYS PRIOR TO STARTING ANY SIGNING OR STRIPING WORK AT (480) 782-3454.
- 2. ALL PAVEMENT MARKINGS, SIGN MATERIALS AND CONSTRUCTION SHALL CONFORM TO ARIZONA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS AND SPECIFICATIONS UNLESS 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 STREETLIGHT 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 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 STREET 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.
- 15. SEE CITY OF CHANDLER DETAIL C-617 FOR MEDIAN NOSE PAINTING.

CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL CHANGE WARNING SIGNS ON SPRING STANDS FOR ALL DIRECTIONS FOR A PERIOD OF 30 DAYS (FLAGGED AND LIGHTED) COORDINATE WITH DANNY MARTINEZ FOR TEMPORARY WARNING SIGNS. HE IS WITH THE STRIPING DEPARTMENT AND CAN BE REACHED AT DANNY.MARTINEZ@CHANDLERAZ.GOV

# EXISTING 4" BROKEN WHITE 6" SOLID WHITE LINE 8" SOLID WHITE LINE 4" SOLID DOUBLE YELLOW LINE







SALE (V): N/A
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