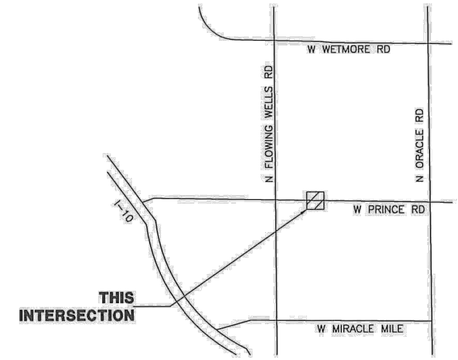
FIRE STATION 8
1025 W PRINCE RD
TUSCON, AZ

GENERAL NOTES

1. ALL EQUIPMENT/MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT PIMA COUNTY/CITY OF TUCSON "STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS" AND "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS", THE SUPPLEMENTAL SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
2. ALL PEDESTRIAN PUSH BUTTON ASSEMBLIES SHALL MEET ADA REQUIREMENTS. THE SIGNS THAT SHALL BE USED ARE IDENTIFIED IN THE 2000 MUTCD AS R10-3B ON PAGE 2B-43. Audible Vibrotactile Type Campbell 4605 or equal
3. INTERNALLY ILLUMINATED STREET NAME SIGNS (ISNS'S) SHALL BE INSTALLED SUCH THAT THE BOTTOM OF THE ISNS IS NO LESS THAT 17 FEET ABOVE THE ROADWAY PAVEMENT OR NO LESS THAN 16 FEET ABOVE THE FINISHED GRADE BEYOND THE SHOULDER, BIKE LANE OR MULTI-USE LANE.
4. THE EXACT LOCATION OF EACH NEW POLE FOUNDATION, PULL BOX, CONTROLLER CABINET FOUNDATION, AND ELECTRIC SERVICE PEDESTAL FOUNDATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
5. THE TOP OF THE POLE FOUNDATION SHALL BE LEVEL WITH THE FINISHED GRADE.
6. ONLY NEW CONDUIT AND CABLE SHALL BE INSTALLED.
7. ALL CONDUIT SHALL BE INSTALLED A MINIMUM OF 30 INCHES BELOW FINISHED GRADE.
8. ANY CONDUIT INSTALLED SHALLOWER THAN 30 INCHES BELOW FINISHED GRADE SHALL BE ENCASED IN CONCRETE PER SPECIFICATION NO. 732-3.01 (G).
9. ALL CONDUITS SHALL BE CLEANED BY COMPRESSED AIR AND A PROPERLY SIZED CONDUIT PISTON OR MANDREL PRIOR TO CABLE INSTALLATION.
10. CONDUIT INSTALLED UNDER EXISTING PAVED DRIVEWAYS THAT ARE NOT SCHEDULED TO BE RECONSTRUCTED AS PART OF THIS PROJECT SHALL BE INSTALLED BY MEANS OF BORING.
11. ITS/ROADWAY LIGHTING SLEEVES SHALL BE INSTALLED UNDER ALL INTERSECTING SIDE STREETS AND DRIVEWAYS ON ALL MAJOR ROADWAY RECONSTRUCTION PROJECTS, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
12. PULL BOXES SHALL NOT BE INSTALLED WITHIN CONCRETE CURB ACCESS RAMPS. IN ADDITION, ANY PULL BOXES INSTALLED BEHIND CURBS SHALL BE INSTALLED BETWEEN THE CURB AND THE PROPOSED/FUTURE SIDEWALK OR BEYOND THE PROPOSED/FUTURE SIDEWALK. AN EXCEPTION TO THIS NOTE WOULD BE PULL BOXES INSTALLED IN A MEDIAN. ANY PULL BOXES INSTALLED ALONG AN UNCURBED ROADWAY SHALL BE INSTALLED ADJACENT TO, BUT NOT WITHIN, THE SHOULDER.
13. A ¾ IN. X 10 FT. GROUND ROD SHALL BE INSTALLED IN THE NO. 7 PULL BOX (WITH THE EXTENSION) ADJACENT TO THE CONTROLLER CABINET. TWO GROUND ROD CLAMPS SHALL BE FURNISHED FOR GROUNDING THE GROUND WIRE.
14. THE HIGH VOLTAGE CABLES SHOULD BE SEPARATED FROM THE LOW VOLTAGE CABLES AS MUCH AS POSSIBLE.
15. A 14 AWG IMSA 19-1-1984 7-CONDUCTOR SOLID WIRE CABLE SHALL BE INSTALLED FROM EACH TRAFFIC SIGNAL TERMINAL STRIP TO THE CONCRETE PULL BOX ADJACENT TO THE POLE FOUNDATION LEAVING THREE FEET OF SLACK FOR EACH CABLE (MEASURED FROM THE TOP OF THE PULL BOX) IN THE PULL BOX. 16 This is okay The traffic signal cabinet (unspliced)
16. THREE 10 AWG-XHHW CONDUCTORS SHALL BE INSTALLED FROM EACH ISNS AND FROM EACH LUMINAIRE TO THE CONCRETE PULL BOX ADJACENT TO THE POLE FOUNDATION, LEAVING THREE FEET OF SLACK FOR EACH CONDUCTOR (MEASURED FROM THE TOP OF THE PULL BOX) IN THE PULL BOX. ROUTE FIVE CONDUCTORS TO THE LUMINAIRE WITH THE PHOTOELECTRIC CELL. A 15-AMP IN-LINE FUSE SHALL BE INSTALLED FOR EACH LUMINAIRE AND FOR EACH ISNS IN THE ASSOCIATED PULL BOX.
17. POLES WITH PEDESTRIAN SIGNALS AND PUSH BUTTON STATIONS SHALL USE ONE 7-CONDUCTOR CABLE FOR BOTH THE PUSH BUTTON STATION AND THE PEDESTRIAN SIGNAL. THE OUTER CABLE JACKET SHALL BE REMOVED AT THE HAND HOLE HEIGHT. TWO CONDUCTORS SHALL BE ROUTED TO THE PUSH BUTTON STATION AND THE REMAINING CONDUCTORS SHALL BE ROUTED TO THE PEDESTRIAN SIGNAL. Not be
18. ALL VEHICLE ROADWAY DETECTION LOOP CABLES SHALL BE 14 AWG IMSA 51-5-1985 CABLE. LEAD-IN CABLES SHALL BE 16 AWG IMSA 50-2-1984 CABLE. NO SPLICES SHALL BE ALLOWED IN THE ROADWAY DETECTION LOOP CABLE EXCEPT AT THE PULL BOX ADJACENT TO LOOP.
19. THE TELEPHONE INTERCONNECT CABLE AND DETECTOR LEAD-IN CABLE SHALL NOT BE SPLICED.
20. THE EMERGENCY VEHICLE PRE-EMPTION SENSOR CABLE SHALL BE OPTICOM DETECTOR CABLE MODEL NO. 138. Tomar M913 → (Tomar M913 includes 4-Strikecom II 4090-1-ST detectors with 4140 optical Signal Processor Card.
21. THE CONDUCTORS FOR THE EMERGENCY VEHICLE PRE-EMPTION BEACON SHALL BE ROUTED TO THE TRAFFIC SIGNAL HEAD AT THE MAST ARM TIP. THE BEACON SHALL BE INSTALLED ON TOP OF THE TRAFFIC SIGNAL HEAD. THE EMERGENCY VEHICLE PRE-EMPTION SENSOR SHALL BE MOUNTED ON THE MAST ARM USING A SPECIAL CLAMP LOCATED A MINIMUM OF 6 FT. FROM THE MAST ARM TIP. mast arm
22. THE BELDEN COAXIAL CABLE SHALL BE INSTALLED, UNSPLICED, FROM THE VIDEO CAMERA MOUNTING (ATTACHED TO THE LUMINAIRE MAST ARM) TO THE CONTROL CABINET.
23. THE SPECIAL PROVISIONS INCLUDE INFORMATION REGARDING THE INSTALLATION OF FIBER OPTIC CONDUIT AND PULL BOXES, IF THESE IMPROVEMENTS ARE INCLUDED IN THE PROJECT.
24. DETECTION LOOP SAWCUTS SHALL BE FLUSHED WITH WATER UNDER PRESSURE AND THEN DRIED WITH AIR UNDER PRESSURE.
25. THE TUCSON ELECTRIC POWER COMPANY PUBLIC IMPROVEMENT COORDINATOR (918-8359) SHALL BE CONTACTED BY THE CONTRACTOR TO VERIFY THE LOCATION OF THE ELECTRIC SERVICE CONNECTION AT EACH INTERSECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING THE TRENCH AND INSTALLING ANY NECESSARY SLEEVES UNDER SIDEWALKS OR DRIVEWAYS IN WHICH THE ELECTRIC SERVICE CABLE IN CONDUIT (CIC) IS TO BE INSTALLED BY TEP.
26. THE QWEST PUBLIC IMPROVEMENT COORDINATOR (884-2952) SHALL BE CONTACTED BY THE CONTRACTOR TO VERIFY THE LOCATION OF THE TELEPHONE CONNECTION AT EACH INTERSECTION.
27. THE TRAFFIC SIGNAL OPERATION AT EXISTING SIGNALIZED INTERSECTIONS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

RESPONSIBILITIES

1. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING EQUIPMENT AND MATERIALS AS SPECIFIED IN THE PLANS: STEEL POLE ANCHOR BOLTS (WITH NUTS AND WASHERS), CONCRETE POLE FOUNDATIONS WITH REINFORCEMENT (WHERE SPECIFIED), TRAFFIC SIGNAL CONTROLLER CABINET(S) WITH CONTROLLER(S), AND ALL AUXILIARY EQUIPMENT, CONTROLLER CABINET CONCRETE FOUNDATION(S), CONCRETE PULL BOXES, ELECTRICAL CONDUIT, GROUND RODS AND CONNECTORS, BARE BOND WIRE AND ALL OTHER CONDUCTORS, POLES, MAST ARMS, TRAFFIC SIGNALS AND MOUNTING ASSEMBLIES, PEDESTRIAN SIGNALS AND MOUNTING ASSEMBLIES, PEDESTRIAN PUSH BUTTON STATIONS WITH SIGNS, LUMINAIRES, PHOTOCELLS, INTERNALLY ILLUMINATED STREET NAME SIGNS, ELECTRIC SERVICE PEDESTAL(S) AND CONCRETE FOUNDATION(S), VIDEO DETECTION SYSTEM EQUIPMENT, VEHICLE DETECTION LOOPS, AND ALL OTHER APPURTENANCES NECESSARY FOR THE OPERATION OF THE TRAFFIC SIGNAL INSTALLATION(S), EXCEPT AS MODIFIED IN THE PLANS. COT Supplied Cabinet and Controller
2. THE CONTRACTOR SHALL DELIVER THE CONTROLLER CABINET(S) WITH THE CONTROLLER(S) AND AUXILIARY EQUIPMENT SPECIFIED IN THE PLANS TO THE PCDOT MAINTENANCE YARD, 1313 S. MISSION ROAD FOR TESTING. THIS SHALL OCCUR A MINIMUM OF TWO WEEKS PRIOR TO THE INSTALLATION(S) AT THE INTERSECTION(S). CONTACT DON PITTENGER (740-5887) AT LEAST 48 HOURS PRIOR TO THE DELIVERY OF THE CONTROLLER CABINET(S) TO PCDOT. THE CONTRACTOR SHALL PICK UP AND TRANSPORT THE CONTROLLER CABINET(S) FROM THE PCDOT MAINTENANCE YARD TO THE INTERSECTION(S) AFTER THE PCDOT STAFF HAS PROPERLY TESTED THE EQUIPMENT AND APPROVED IT FOR INSTALLATION. COT NOT Pima County
3. THE CONTRACTOR SHALL INSTALL EACH TRAFFIC CONTROLLER CABINET ON ITS FOUNDATION AND ROUTE ALL OF THE CONDUCTORS INTO THE CONTROLLER CABINET. THE PCDOT STAFF SHALL TERMINATE THE CONDUCTORS IN THE CONTROLLER CABINET. COT
4. THE CONTRACTOR SHALL CAREFULLY DISASSEMBLE AND SALVAGE ALL EXISTING TRAFFIC SIGNAL AND STREET LIGHTING EQUIPMENT THAT IS NOT TO REMAIN OR BE RELOCATED. ALL OF THE EQUIPMENT SHALL BE RETURNED TO THE PCDOT MAINTENANCE YARD, 1313 S. MISSION RD. THE EQUIPMENT SHALL BE UNLOADED BY THE CONTRACTOR. CONTACT DON PITTENGER (740-5887) AT LEAST 48 HOURS PRIOR TO DELIVERING THE EQUIPMENT. COT



VICINITY MAP
NO SCALE

SHEET INDEX

TS1 COVER SHEET
TS2 INTERSECTION LAYOUT
TS3 EQUIPMENT & CIRCUIT DIAGRAMS

AS RECIEVED
Dated: 10/15/2026

INFORMATION SHOWN ON THESE PLANS WAS RECEIVED FROM THE CITY OF TUCSON FIRE DEPARTMENT AND HAS NOT BEEN INDEPENDENTLY VERIFIED FOR ACCURACY OR COMPLETENESS. ALL DIMENSIONS, LOCATIONS, AND CONDITIONS SHALL BE FIELD VERIFIED.

APPROVAL

TRAFFIC ENGINEER _____ **DATE** _____

PLAN NUMBER
F-2021-001

Call at least two full working days before you begin excavation. ARIZONA 811 Arizona Blue Stake, Inc. Dial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County: (602) 263-1100

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WRIGHT ENGINEERING PROJECT NO: 21028
DESIGN BY: SLB
DRAWN BY: SLB
CHECKED BY: AMB

WRIGHT engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE (480) 497-2004 • FAX (480) 497-5807
www.wrightengineering.us

PROJECT: TUCSON, ARIZONA FIRE STATION 8 1025 W PRINCE RD

TITLE: TRAFFIC SIGNAL

NO.	DATE	SUBMITTALS/REVISIONS (DESCRIPTIONS)
1	FEB 2021	1ST SUBMITTAL

Registered Professional Engineer (Retired) Certificate No. 46691 ADAM M. BOWERS Date Signed 10-19-21
Expires 9-30-10

DRAWING NO: TS1 OF 3

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