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**CAPTION HEADING:**

**RESOLUTION**  
Resolution No. 2296  
Intergovernmental Agreement  
United States General Services Administration (GSA)  
Jointly to improve Urtuzuastegui Street



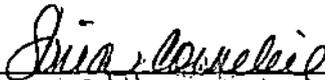
CITY OF  
**SAN LUIS**  
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P.O. Box 1170 | 1090 E. Union Street San Luis, AZ 85349 | P: (928) 341-8520 F: (928) 341-8539

### CERTIFICATION

I do hereby certify that I am a duly appointed Deputy City Clerk of the City of San Luis, Arizona, and that the attached is a true and correct copy of the **Resolution No. 2296 – IGA with the United States General Services Administration (GSA) jointly to improve Urtuzuastegui Street**, dated November 21, 2023, which is on file in the City Clerk's Office, City Hall, San Luis, Arizona.

Dated this 20<sup>th</sup> day of February 2024.

  
\_\_\_\_\_  
Sonia Cornelio, City Clerk



# Resolution

OFFICE OF THE  
MAYOR  
CITY OF SAN LUIS

No. 2296

**A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF SAN LUIS, ARIZONA, APPROVING AN INTERGOVERNMENTAL AGREEMENT WITH THE UNITED STATES GENERAL SERVICES ADMINISTRATION JOINTLY TO IMPROVE URTUZUASTEGUI STREET, REPEALING ANY CONFLICTING PROVISIONS; AND PROVIDING FOR SEVERABILITY.**

**BE IT RESOLVED** by the Mayor and City Council of the City of San Luis, Arizona, that the Intergovernmental Agreement with the United States General Services Administration and the City of San Luis regarding the parties' joint responsibilities for improvements on Urtuzuastegui Street is approved.

**PASSED, ADOPTED, and APPROVED** by the Mayor and City Council of the City of San Luis, Yuma County, Arizona, this 21st day of November 2023.

Nieves Riedel, Mayor

**ATTEST:**

Sonia Cornelio, City Clerk

**APPROVED AS TO FORM:**

Kay Marion Macuil, City Attorney

**Agreement  
for the  
San Luis I Land Port of Entry  
Urtuzuastegui Street Improvements**

The City of San Luis ("City") and the United States General Services Administration ("GSA") are entering into a Memorandum of Agreement to document cooperation in providing mutual benefit to the City and the U.S. Government. The work is immediately adjacent to and necessary for the construction of the new San Luis I Land Port of Entry.

This Agreement by and between the City and the GSA is for the funding, design and construction of street improvements along the port's urban edge at Urtuzuastegui Street, from Archibald Street on the west to 4th Avenue on the east, in San Luis, Arizona, due to the GSA's San Luis I Land Port of Entry Modernization and Expansion Project.

**I. Definitions**

The following are defined terms for purposes of this Agreement.

- A. San Luis I Land Port of Entry ("LPOE") means the inspection facility located at 431 Main Street at the Mexican border in San Luis, Arizona, eventually comprising approximately 182 thousand gross square feet, which is owned by GSA and operated by United States Customs and Border Protection.
- B. Project means the work described in Exhibit 2 (City approved November, 1, 2023, Final SLLPOE Urtuzuastegui St Improvements Drawings by Hensel Phelps) and in the agreed to Scope of Work attached as Exhibit 1, with the extent of the work being located along Urtuzuastegui Street from Archibald Street to 4th Avenue.
- C. Party means City or GSA. Parties means both City and GSA.

**II. Purpose**

A. GSA is in the process of modernizing and expanding the San Luis I Land Port of Entry through its San Luis I Modernization and Expansion Project in order to facilitate cross border inspection activities, to reduce wait times and improve downtown City vehicle and pedestrian circulation. The port experiences much higher traffic volumes than it was originally designed to accommodate. Furthermore, the port's facilities are significantly undersized and require upgrading to meet the U.S. Customs and Border Protection's current mission requirements. The modernization and expansion project will improve efficiencies and traffic flows and reduce wait times through the expansion of inbound pedestrian lanes from 10 to 14 and inbound vehicle lanes from 8 to 16, and increase CBP's processing capacity and operational security by effectively deploying the latest technology. The design is also intended to solve potentially unsafe existing conditions due to pedestrian traffic crossing the outbound vehicle traffic at Urtuzuastegui Street. To address the needs of the community, GSA has designed and is building a new, larger and safer LPOE facility.

B. The Modernization and Expansion Project includes newly constructed inbound lanes that will route traffic to Urtuzuastegui Street intersections at both William Brooks and 2<sup>nd</sup> Avenues and includes a newly constructed outbound vehicle entrance and inspection lanes at the intersection of Urtuzuastegui and Archibald Streets. A new entrance for port employees will be created at the Urtuzuastegui Street roundabout at Main Street, and a maintenance and emergency entrance and trash pick-up gated entrance will be created at the Urtuzuastegui Street and Williams Brooks Avenue intersection. Both inbound and outbound pedestrian traffic will be routed through a newly constructed pedestrian plaza on the south side of Urtuzuastegui Street at the Main Street intersection. A pull out for deliveries to the new Mission Support building and accessible drop off point will be constructed on the south side of Urtuzuastegui Street between Archibald and Main Streets and a new return to the U.S. lane will exit onto Urtuzuastegui Street just east of the new inbound lanes at Archibald Street.

C. The creation of these new vehicle and pedestrian traffic entrances and exits along Urtuzuastegui Street for the benefit of the LPOE will necessitate the widening of the sidewalks on the south side of Urtuzuastegui Street; the modification of the traffic signal at the Archibald Street intersection; the additional of a new traffic signal at the William Brooks Avenue intersection; and new signage, striping, crosswalks, lighting, landscaping, and other miscellaneous controls and appurtenances for the safe and directed flow of vehicle and pedestrian traffic through the new routes as further described in Exhibits 1 and 2.

### III. Agreement

#### THE CITY AGREES:

A. It has given final approval for the Project Scope of Work, as evidenced by the signed Scope of Work at Exhibit 1 and the City approved November 1, 2023, Final SLLPOE Urtuzuastegui St Improvements Drawings at Exhibit 2.

B. To grant to GSA for a mutually agreeable time, without any condition, cost or delay, an Encroachment Permit to complete the work described to be done by GSA in Exhibits 1 and 2.

C. That GSA has no obligation to complete the Project work at all unless City timely grants an Encroachment Permit.

D. It will timely complete the work detailed to be done by the City in Exhibits 1 and 2 so as to not cause delay to GSA's use of the newly created in-bound and out-bound lanes and other access points to the LPOE.

E. To approve in a timely manner, which approval will not be unreasonably withheld, GSA's traffic management plan for the Project that is the subject of this Agreement at no cost to GSA.

F. To inspect in a timely manner so as to avoid delay to GSA and/or its contractor(s)/agent(s) the Project work, and that it will receive from GSA a lump sum fee of \$9,600.00 for its inspection services.

G. To not unreasonably withhold its inspection approval(s) throughout the Project that is the subject of this Agreement. And in the case of any objection during inspection, the City will immediately, but no later than one (1) business day, inform GSA and cooperate with GSA in removing the objection so that the Project may be completed without delay.

H. To accept, and operate and maintain in perpetuity, the newly constructed and installed items of the Project work with no conditions or requirements beyond those written in this Agreement when GSA declares in writing to the City that the Project is Substantially Complete and simultaneously provides As-Built plans and copies of manuals, inspection reports and all testing, after which GSA will have no interest in the Project elements.

I. City Council approval and acceptance of this Project work occurred in the regularly scheduled Council Meeting held on November 21, 2023.

J. That it will solely maintain and operate the newly constructed and installed Signal Lights, sidewalks, gutters, drainage, lighting, and other street improvements as described in the Scope of Work items in perpetuity for the benefit of the LPOE as outlined in Exhibits 1 and 2, at its own costs, with no further costs to GSA.

K. It shall not request or require that GSA and the United States of America provide any funds for accepting, maintaining and operating the Project work items.

L. It shall continue its account with the Arizona Public Service ("APS") for electrical power to Urtuzustegui Street signals and street lighting between and inclusive of the Archbald Street and 2<sup>nd</sup> Avenue intersections.

M. It approves and adopts the design for all elements of the Project, and assumes full responsibility for such design and construction of all elements of the Project.

N. The GSA contracting officer is the only individual with authority to accept or reject the work of GSA's contractor performing the Project work.

O. Neither GSA nor any of its contractors will be required to pay for any City permit, (including but not limited to encroachment, street, hauling or temporary use).

P. It will not unreasonably withhold approval of any inspection or permit or review of any material or design change for the Project.

Q. It will promptly review any design changes during construction and at no additional cost to GSA.

R. To indemnify and hold GSA harmless from any claim or cause of action related in any manner to any part of the design, construction, operation or maintenance of each and every element of the Project.

**GSA AGREES:**

A. It shall undertake and complete the Project work as detailed to be done by GSA in Exhibits 1 and 2.

B. To provide a traffic management plan to the City for approval, which approval will not be unreasonably withheld, prior to commencing Project work.

C. To coordinate directly with and pay APS for the electrical work associated with the Project scope of work detailed to be done by GSA. This will not include payment to APS for any ongoing costs once the Project scope is completed.

D. To provide to the City for review any material changes to the final City approved construction documents.

E. To include in its construction contract a requirement for its Project contractor to provide a one (1) year warranty covering all Project work and to require the contractor to name the City as an additional insured during the time period it is performing Project work.

**THE PARTIES AGREE:**

A. Nothing in this Agreement obligates GSA to provide funding or improvements on any site other than that where the Project is located, as described in and depicted on Exhibits 1 and 2 of this Agreement.

B. GSA shall not commit any funds to any contracts related to the Project until this Agreement is fully executed.

D. If it is determined that the allotted budget for the Project will be exceeded, the City and GSA will reduce the cost of the Project through value engineering. GSA shall not be responsible for any additional scope beyond the Project budget.

E. To cooperate fully with one another for the timely completion of the Project because time is of the essence.

F. The City will conduct inspections during construction and GSA will pay a lump sum fee of \$9,600.00 to the City for all inspection services.

G. GSA will not provide any funding for the operation and maintenance of any element of the Project.

H. Covenant and warrant that the persons executing this Agreement for their respective entities is a duly authorized and existing entity, is qualified to do business in Arizona, with full right and authority to enter in this Agreement, and that each and every person signing on behalf of the City is authorized to do so.

I. This Agreement shall be governed by applicable federal laws.

J This Agreement may be executed in counterparts, each of which shall be deemed to be an original, but all of which taken together, shall constitute one and the same document.

K. The parties will cooperate timely with one another in carrying out the work and purpose of this Agreement.

L. This Agreement and its exhibits constitute the whole understanding, discussion and agreement of the Parties.

M. This Agreement may not be changed, amended or altered in any way except in writing and executed by all Parties to the Agreement

N. This Agreement may only be terminated by mutual agreement of the Parties in writing, or if the events occurring during performance of the Project make completion impossible without additional funds and neither Party can contribute such funds.

O. No Party shall be liable to the other for any consequential damages in connection with a breach of this Agreement.

**III. EXHIBITS**

The following exhibits are included as a part of this Agreement:

Exhibit 1 – November, 14, 2023, City accepted, Scope of Work

Exhibit 2 – November, 1, 2023, City approved, Urtuzuastegui Street Improvements Drawings provided by Hensel Phelps

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement, which is effective as of the latest date of execution.

CITY OF SAN LUIS

DocuSigned by:  
*Nieves G. Riedel*  
083E0E2780074A5...  
By: Nieves G. Riedel  
Title: Mayor of San Luis, AZ

Date: 2/16/2024

UNITED STATES OF GENERAL SERVICES ADMINISTRATION

DocuSigned by:



008903F4-7097-4AE0-A5AF-BAF0668D3111

Date: 2/16/2024

By: Dan Brown

Title: Regional Commissioner, PBS, Region 9



November 14, 2023

**Exhibit 1**

**Scope of Work  
for  
Urtuzuastegui Street Improvements  
at  
San Luis I LPOE, San Luis, AZ**

**I. SCOPE OF WORK**

Construction of Urtuzuastegui Street improvements related to the San Luis I Land Port of Entry Modernization and Expansion Project as detailed in Exhibit 2 – November 1, 2023, Final SLLPOE Urtuzuastegui St Improvements Drawings.

**II. DIVISION OF RESPONSIBILITY**

The General Services Administration (the GSA) and the City of San Luis (the City) agree to the division of responsibility for execution of the Scope of Work as described below.

**A. General Services Administration Scope of Work**

The GSA agrees to provide funding, administration, engineering, contracting, performance, and QA/QC for the Scope of Work items summarized as follows (see Exhibit 2 for detailed requirements within these general items of work):

**Urtuzuastegui Street**

- Obliterate Existing Striping & Directional Arrows
- Slurry Seal Existing Pavement from William Brooks Ave to 4th Ave
- New Striping
- New Directional Arrows
- Fixed Traffic Signage with Posts
- Remove and Replace Street Lights at Urtuzuastegui St and Main St
- SWPPP

**Urtuzuastegui Street - Southside**

- Demolish Curb / Gutter / Sidewalk
- Replace Curb / Gutter / Sidewalk /



November 14, 2023

- Replace catch basins and storm drain pipe.
- Replace ADA Access Ramps

#### **William Brooks Avenue / Urtuzuastegui Street Intersection Signalization**

- Mast / Arm Structures
- Mast Structure Foundations
- Traffic Signal Heads
- Added Crosswalk Push Button SW Corner
- Traffic Signal Controller with Cabinet
- All associated conduit pull boxes and wires

#### **Miscellaneous Work (as needed for the above GSA items)**

- Temporary Traffic Control
- Temporary Traffic Barricades
- Temporary Traffic Signage
- Relocation / Maintenance of Barricades
- Concrete Demo, Cutting, Replacement, and Asphalt Repairs

#### **General Notes**

- Coordinate Work with the City of San Luis Public Works for inspection of the GSA items.
- Before removing traffic light signals, coordinate with Arizona Public Service (APS) to disconnect power.
- Following any demo work restore the area in kind.
- Before purchasing new traffic control signal poles, controllers or other equipment as outlined in the Exhibit 1, ensure City reviews and approves submittals. These submittals will be given to the Public Works/City Engineer for the City of San Luis for their approval.
- After dismantling and removing traffic signal lights, pedestrian signal poles, traffic camera and accessories, traffic controllers, or other existing equipment as shown in Exhibit 1, deliver these items to a location within the City of San Luis as coordinated with the Public Works/City Engineer for the City of San Luis.
- Connect a traffic controller override at the 1st Street signal to allow CBP the capability to manually override the traffic controller standard signal timing from the Headhouse Building for emergency purposes. GSA will provide location in the Headhouse where the override switch will be installed.



November 14, 2023

- The contractor is to ensure the vertical height of any new equipment is in alignment with City standards and meets APS standards for distances from any overhead power lines.
- Provide a traffic control plan to the City for approval.
- Provide sequence and logic for all traffic controllers.
- Open cuts in asphalt for the conduit work are to be coordinated with the City inspector.
- All work to be coordinated with City of San Luis Public Works Engineering/Inspections.
- The GSA will coordinate with the City of San Luis for an "Encroachment Permit". No work can begin unless the Encroachment Permit is approved by the City.

**B. City of San Luis Scope of Work**

The City agrees to provide funding, administration, engineering, contracting, performance, and QA/QC for the Scope of Work items summarized as follows (see Exhibit 2 for detailed requirements within these general items of work):

**U-Street - Northside**

- Demolish Curb / Gutter / Sidewalk
- Replace Curb / Gutter / Sidewalk
- Replace ADA Access Ramps

**Main Street / U-Street Intersection Signalization**

- Remove / Salvage Existing Flashing Beacons (HAWK)
- HAWK Mast / Arm / Push Button Structure at East Crosswalk
- Mast Structure Foundation
- HAWK Signal Heads
- HAWK Crosswalk Push Button with Post
- HAWK Signal controller cabinet and foundation

**Archibald / U-Street Intersection Signalization**

- Existing Signal Head Modification
- Existing Controller Modification
- Crosswalk Push Button with Post SE Corner and associated conduit pullboxes and wires
- Crosswalk Push Button SW Corner and associated conduit pull boxes and wires



November 14, 2023

**Miscellaneous (as needed for the above City items)**

- Temporary Traffic Control
- Temporary Traffic Barricades
- Temporary Traffic Signage
- Relocation / Maintenance of Barricades
- Concrete Demo, Cutting, Replacement, and Asphalt Repairs

**General Notes**

- Once traffic signalization or other work is completed by the GSA, in phases or in whole, the City will inspect and approve the work for City operation and maintenance of the work.

Accepted by DocuSigned by:  
*Nieves G. Riedel*  
653E0E27B007485... Date: 2/16/2024

Nieves G. Riedel, Mayor,  
City of San Luis, AZ

**Certificate Of Completion**

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Melissa Cataldo

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melissa.cataldo@gsa.gov

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**Signer Events**

Nieves G. Riedel

nriedel@sanluisaz.gov

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Dan Brown

dan.brown@gsa.gov

Region 9 PBS Commissioner HCA

US General Services Administration

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Christen Van Deusen

chris.vandeusen@gsa.gov

Civil Engineer/Project Manager D&C

US General Services Administration

Security Level: Email, Account Authentication (None)

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Keaton Norquist  
keaton.norquist@gsa.gov  
Assistant Regional Counsel  
US General Services Administration  
Security Level: Email, Account Authentication  
(None)  
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Scott Shin  
scott.shin@gsa.gov  
US General Services Administration  
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If you wish to withdraw your consent to electronic disclosures, you may do so by calling us and requesting withdrawal of consent. After consenting to receive and deliver Required Information electronically, you may request a paper copy of the Required Information by calling us.

If you do not have the required software and/or hardware, or if you do not wish to use electronic records and signatures for any other reason, you can request paper copies of the Required Information to be sent to you by calling us.

Your consent does not mean that we must provide the Required Information electronically. We may to, at our option, deliver Required Information on paper. We may also require that certain communications from you be delivered to us on paper at a specified address.

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# Expansion & Modernization Project at the San Luis 1 Land Port of Entry

431 Main Street, San Luis, AZ 85349



## 100% San Luis LPOE | Urtuzuastegui Street Improvements

November 1st, 2023

GSA Project No. NAZ00011



CUI // PHYS // FEDCON

Controlled by: General Services Administration Pacific Rim Region 9.

Contact: Christopher Lee, 415-522-2877, christopher.lee@gsa.gov

BID NO. \_\_\_\_\_

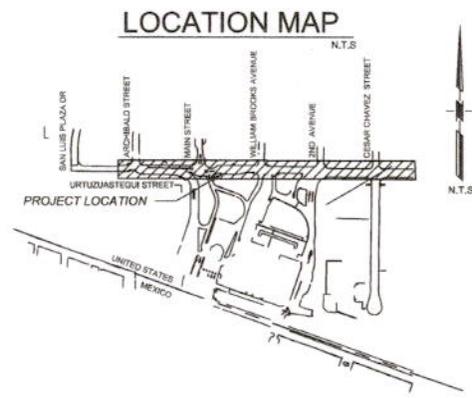
# CITY OF SAN LUIS SAN LUIS I LAND PORT OF ENTRY OFFSITE IMPROVEMENTS

C.I.P NO. \_\_\_\_\_

MAYOR  
NIEVES RIEDEL

CITY ADMINISTRATOR  
RALPH VELEZ

CITY COUNCIL  
LUIS E. CABRERA  
MARIA CECILIA CRUZ  
TADEO AZAEL DE LA HOYA  
MATIAS ROSALES  
GLORIA TORRES  
JAVIER VARGAS



 Scope to be Completed by the City of San Luis  
 Scope to be Completed by the GSA

APPROVED: \_\_\_\_\_  
CITY ENGINEER

APPROVED: \_\_\_\_\_  
DIRECTOR, PUBLIC WORKS  
DEPARTMENT

Printed on 10/21/2023 10:16:38 AM J. Simard - 5/21/2023 2:15:44 PM 11 16 13,000,000.00 - San Luis I Land Port of Entry - 11,000,000.00 - 11,000,000.00 - 11,000,000.00



# NOTES & LEGEND

## GENERAL NOTES

- ALL MATERIALS AND CONSTRUCTION HEREON SHALL CONFORM TO CITY OF SAN LUIS CONSTRUCTION STANDARDS, YUMA CONSTRUCTION STANDARD DETAIL DRAWINGS, MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE CITY OF SAN LUIS SUPPLEMENT TO MAG UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, LATEST AGOT SIGNAL AND LIGHTING STANDARD DRAWINGS, AND SHALL BE IN ACCORDANCE WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND FURNISHING TO THE ENGINEER OF "AS-BUILT" RECORD DRAWINGS. THE CONTRACTOR SHALL OBTAIN ONE SET OF PLANS FROM THE ENGINEER AND SHALL RECORD IN RED ALL CHANGES WHERE ACTUAL FIELD CONSTRUCTION DIFFERS FROM WORK SHOWN ON PLANS. ALL CONCEALED WORK AND UTILITIES SHALL BE DIMENSIONED. THE CONTRACTOR SHALL SUBMIT THE FINAL "AS-BUILT" DRAWINGS TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL NO LATER THAN 14 CALENDAR DAYS AFTER COMPLETION OF THE PROJECT.
- ANY UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH CARELESSNESS OR ANY OTHER CAUSE, FOUND TO EXIST PRIOR TO THE FINAL ACCEPTANCE OF WORK, SHALL BE REMOVED AND REPLACED IN A TIMELY AND ACCEPTABLE MANNER TO THE CITY OF SAN LUIS.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL PROPOSED PROJECT MATERIAL DATA SHEETS AND ANY SHOP DRAWINGS. ANY MATERIAL SUPPLIED NOT IN CONFORMANCE WITH THE SPECIFICATIONS WILL BE REJECTED.
- THE CONTRACTOR WILL BE RESPONSIBLE, IN ACCORDANCE WITH ARIZONA REVISED STATUTES, TO NOTIFY ARIZONA 811 AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF COMMENCING CONSTRUCTION ACTIVITIES. LOCATIONS OF EXISTING PUBLIC UTILITY LINES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR MUST VERIFY THE LOCATIONS IN THE FIELD AND TAKE NECESSARY PRECAUTIONS. ANY DAMAGE TO A UTILITY SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL MAINTAIN DUST ABATEMENT ACTIVITIES FOR THE DURATION OF THE PROJECT, INCLUDING WEEKENDS AND HOLIDAYS. THE CONTRACTOR SHALL MAINTAIN ADEQUATE MOISTURE LEVELS IN THE SURFACE MATERIALS TO ELIMINATE DUST FROM THESE MATERIALS. ALL HAUL TRUCKS, WHETHER INVOLVED IN DELIVERY OR REMOVAL ACTIVITIES, SHALL BE COVERED AND/OR TARPED IN ORDER TO NEGATE THE REMOVAL OF MATERIAL FROM TRUCKS BY WIND, EITHER NATURAL OR CAUSED BY THE MOVEMENT OF THE TRUCK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TRAFFIC CONTROL PLAN (TCP) TO THE ENGINEER FOR REVIEW AND APPROVAL AT LEAST SEVEN (7) CALENDAR DAYS PRIOR TO IMPLEMENTATION. THE TRAFFIC CONTROL PLAN SHALL BE PREPARED AND SUBMITTED BY PERSONNEL CERTIFIED IN THE AREA OF CONSTRUCTION TRAFFIC CONTROL BY THE AMERICAN SAFETY SERVICES ASSOCIATION (ATSSA) OR BY THE INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATIONS (IMS), THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING PROPER SIGNS, BARRICADES, AND WARNING LIGHTS TO CONTROL THE TRAFFIC AND TO ASSURE THE PUBLIC'S HEALTH, WELFARE, AND SAFETY. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT FOLLOWING DOCUMENTS ADOPTED BY THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT). THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION OF ALL TRAFFIC CONTROL INSTALLATIONS USED IN CONNECTION WITH THIS PROJECT AND SHALL INSPECT, AT LEAST THREE DAILY, TO ENSURE CONFORMANCE WITH THE TRAFFIC CONTROL PLAN.
- THE CONTRACTOR SHALL GUARANTEE THE WORK COMPLETED AGAINST DEFECTIVE MATERIAL AND/OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE GRANTED BY THE CITY OF SAN LUIS.
- ANY SURVEY MONUMENT DISTRIBUTED DURING CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN ACCORDANCE WITH THE CITY OF SAN LUIS STANDARD DETAILS BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER. THE CONTRACTOR SHALL UTILIZE A REGISTERED LAND SURVEYOR TO ASSURE PROPER PLACEMENT OF SAID MONUMENT. THE REGISTERED LAND SURVEYOR SHALL PROVIDE A SEALED DESCRIPTION OF THE NEW MONUMENT AND ITS LOCATION.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL "PHOTOCHECK" ALL POTENTIAL POINTS OF CONFLICT BETWEEN NEW UTILITIES AND EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DISCREPANCIES EXIST BETWEEN DESIGN INFORMATION AND ACTUAL FIELD CONDITIONS.
- THE CONTRACTOR SHALL IMPLEMENT ALL APPLICABLE BEST MANAGEMENT PRACTICES (BMPs) FOR THE DURATION OF THE PROJECT PER CITY OF YUMA ORDINANCES AND ADEQ GUIDELINES.
- OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) STANDARDS FOR CONSTRUCTION (TITLE 29, CODE OF FEDERAL REGULATIONS, PART 1926 AS AMENDED) AND CITY OF SAN LUIS SAFETY REGULATIONS ARE APPLICABLE FOR THE COMPLETION OF THE WORK ON THIS PROJECT.
- CONTRACTOR SHALL PROTECT ALL CATCH BASINS AND/OR CURB INLETS THAT EXIST WITHIN 50 FEET OF THE PROJECT LIMITS OR ANY OTHERS THAT NEED PROTECTION FROM CONSTRUCTION ACTIVITIES BARRIERS.
- CONTRACTOR SHALL CONSULT WITH CITY OF SAN LUIS STAFF TO DETERMINE IF REMOVED VALVE AND MANHOLE FRAMES AND COVERS CAN BE REUSED.
- IF HIGH SOIL MOISTURE CONDITIONS AND/OR SHALLOW GROUNDWATER IS ENCOUNTERED RESULTING IN LOW COMPACTION TESTING RESULTS DURING SUBGRADE PROCESSING, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMEDIATE THE WET SOIL CONDITIONS IN ORDER TO ACHIEVE THE REQUIRED PASSING COMPACTION TEST RESULTS. THE CONTRACTOR WILL PERFORM THIS REMEDIATION OF THE WET SUBGRADE SOILS AT NO ADDITIONAL COST TO THE CITY OF SAN LUIS.

## ABBREVIATIONS

ALL ABBREVIATIONS ARE PER SECTION 1-3 OF THE 2021 "GREENBOOK" STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION WITH THE ADDITIONS INDICATED BELOW:

ABAND	ABANDONED	FL	FLOW LINE
ABC	AGGREGATE BASE COURSE	FINC	FENCE
AC, ASPH	ASPHALTIC CONCRETE	FORM	FACE OF WALL
ADA	AMERICAN DISABILITY ACT	FS	FRESH SURFACE
ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION	FTG	FOOTING
AP	ANGLE POINT	FW	FACE OF WALL
AC, ASPH	ASPHALTIC CONCRETE	G	GUTTER ELEVATION
ACSGS 1	ALUMINUM CAP SURVEY MONUMENT STAMPED	GB	GRADE BREAK
AWE	AWESIDE	GRD	GROUND
BC	BEGINNING OF CURB	GP	GUARD POST
BC, BORDERS	BACK OF CURB	GV	GATE VALVE
BCHS	BRASS CAP IN HATCHHOLE STAMPED	H, HORIZ	HORIZONTAL
BCH	BEACH RETURN	HA	HATCHHOLE
BBB	BENCH MARK	HP	HIGH PRESSURE
BM	BUILDING	HP	HIGH POINT
BLOD	BLOCK	ICV	IRRIGATION CONTROL VALVE
BUT	BUTT	IE, IE	INVERT ELEVATION
BY	BACK	INT	INTERSECTION
BMP	BEST MANAGEMENT PRACTICE	L	LENGTH
BSW	BACK OF SIDEWALK	LP	LOW POINT
BOIT	BOTTOM	LT	LEFT
BVCB	BEGIN VERTICAL CURVE STATION	MGAS	MARI GAS
BVCE	BEGIN VERTICAL CURVE ELEVATION	MEX	MEXICO
CAB	CABINET	MH	MANHOLE
CB	CATCH BASIN	MTR	METER
CBP	CUSTOMS AND BORDER PROTECTION	MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
CI	CURB INLET	MATL	MATERIAL
CL	CENTERLINE	MBRM	MANHOLE
CG	CURB AND GUTTER	N	NORTH
CLP	CHAIN LINK FENCE	NTS	NOT TO SCALE
C.C.C.M.C	CORRUGATED METAL PIPE	OFF	OFFSET
COMAN	COMMUNICATION	ONE	OVERHEAD ELECTRIC
CONC	CONCRETE	P	PAVING
CONST	CONSTRUCTION	PI	PULL BOX
COR	CORNER	PC	POINT OF CURVATURE
CTR	CENTER	PI	POINT OF TANGENT INTERSECTION
CTRL	CONTROL	PKG	PARKING
CVY	CITY OF YUMA	PAL	PANEL
DET	DETAIL	PP	POWER POLE
D.O.	DRAIN INLET	PRC	POINT OF REVERSE CURVE
DG	DECOMPOSED GRANITE	PT	POINT OF TANGENCY
DIA	DIAMETER	PARL	POWER
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
DW, DWY	DRIVEWAY	PUS	PUBLIC UTILITY EASEMENT
E	EAST	RCP	REINFORCED CONCRETE PIPE
EA	END OF CURVE	RWL, ROW	RIGHT OF WAY
EC	EXPANSION JOINT	RT	RIGHT
EJ	ELECTRICAL	S	SOUTH
E, ELEG	ELECTRICAL VAULT	SB	SOUTH BOUND
ELEV	ELEVATION	SD	STORM DRAIN
ES	EXISTING GRADE	SDMH	STORM DRAIN MANHOLE
EL	ELEVATION	SMSBSUM	SEWER MANHOLE
EP	EDGE OF PAVEMENT	SR	STATE ROUTE
ESUT	EASEMENT	ST	STREET
ETW	EDGE TRAVELED WAY	STA	STATION
EVCB	END VERTICAL CURVE STATION	STLPT	STREET LIGHT
EVCB	END VERTICAL CURVE ELEVATION	SQ	SQUARE
EXIST	EXISTING	SW, SWL, SWRK	SIDEWALK
FC	FACE OF CURB	S, SA, SWR	SANITARY SEWER
FD	FOUND	TC	TOP OF CURB
FOTM	FOUNDATION	T, TELE	TELEPHONE
PH, F	FIRE HYDRANT	TF	TOP OF FOUNDATION
FO	FRESH GRADE	TS	TRAFFIC SIGNAL
		TY	TELEVISION
		UG	TYPICAL
		UGB	UNDERGROUND ELECTRIC
		UGG	UNDERGROUND GAS
		U.S.A.	UNITED STATES OF AMERICA
		UNK	UNKNOWN
		UTL	UTILITY
		V, VERT.	VERTICAL
		VC	VERTICAL CURVE
		VV	VALLEY GUTTER
		W	WESTERLY OR WEST
		WAS	WATER AGENCY STANDARDS
		WLL	WALL
		WM	WATER METER
		WTR	WATER
		WY	WATER VALVE
		XDG	CROSSING

## LEGEND

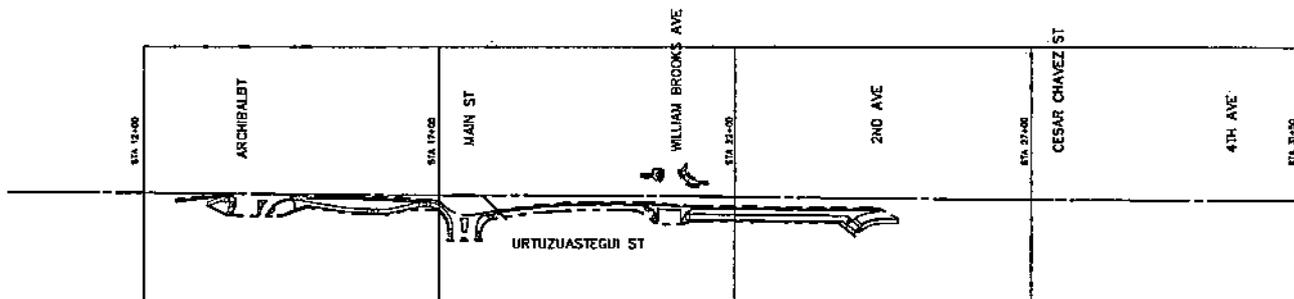
EXISTING	PROPOSED	EXISTING	PROPOSED	MAJOR CONTOUR

Know what's below. Call before you dig.



	<b>PSONAS</b>		333 E. WILSON ROAD SUITE 201 WENAT 90129-1200
	SCALE:	APPROVED BY:	DRAWN BY: J.V. RIG. AP
	DATE: 11/1/23		C.T.P. NO.
	SAN LUIS I LAND PORT OF ENTRY OFFSITE		
GENERAL NOTES			2 OF 38

# SHEET INDEX



SHEETS: 8, 10, 12, 14, 15, 19, 23, 31 STA 12+00 TO STA 17+00  
 SHEETS: 8, 10, 12, 14, 16, 20, 31 STA 17+00 TO STA 22+00  
 SHEETS: 9, 11, 13, 17, 20, 32 STA 22+00 TO STA 27+00  
 SHEETS: 17, 21 STA 27+00 TO STA 27+00

# SHEET INDEX

SHEET NO.	SHEET TITLE
1	COVER
2	GENERAL NOTES
3	INDEX AND DESIGN PLAN
4	TYPICAL SECTIONS
5	TYPICAL SECTIONS
6	STORM DRAIN SUMMARY
7	HORIZONTAL CONTROL PLAN
8	DEMOLITION PLAN
9	DEMOLITION PLAN
10	GEOMETRY PLAN
11	GEOMETRY PLAN
12	PAVEMENT PLAN
13	PAVEMENT PLAN
14	STORM DRAIN PLAN
15	PAVEMENT MARKING AND SIGNING NOTES
16	PAVEMENT MARKING PLAN
17	PAVEMENT MARKING PLAN
18	SIGNING LAYOUT
19	SIGNING PLAN
20	SIGNING PLAN
21	SIGNING PLAN
22	TRAFFIC SIGNAL NOTES
23	TRAFFIC SIGNAL PLAN
24	TRAFFIC SIGNAL POLE SCHEDULE
25	TRAFFIC SIGNAL CONDUCTOR SCHEDULE
26	TRAFFIC SIGNAL PLAN
27	TRAFFIC SIGNAL POLE SIGNAL
28	TRAFFIC SIGNAL CONDUCTOR SCHEDULE
29	LIGHTING NOTES
30	LIGHTING MODIFICATION PLAN
31	EROSION CONTROL PLAN
32	EROSION CONTROL PLAN
33	RAMP DETAILS
34	RAMP DETAILS
35	RAMP DETAILS
36	SIGNAL POLE DETAILS
37	SIGNAL POLE DETAILS
38	SIGNAL POLE DETAILS

# DESIGN NOTES

## BASIS OF COORDINATES AND ELEVATIONS:

**HORIZONTAL CONTROL:**  
 THIS PROJECT IS BASED UPON THE ARIZONA COORDINATE SYSTEM 1983 (ACS 83), NAD83 (2011 EPOCH), REFERENCE FRAME, USES INTERNATIONAL FEET, AND IS LOCATED IN THE WESTERN ZONE OF SAID COORDINATE SYSTEM. THE CONTROL NETWORK WAS SURVEYED IN DECEMBER, 2022 USING TRIMBLE GNSS UNITS UTILIZING POST-PROCESSED STATIC METHODS THROUGH NGS OPUS.

**STATION REFERENCE:**  
 PTH: OPUS PRIMARY CONTROL POINT & CENTRAL POINT

SURFACE COORDINATES AND/OR DISTANCES WERE COMPUTED FROM THE ACS 83 COORDINATES BY APPLYING A PROJECT SPECIFIC GRID TO SURFACE COMBINED ELEVATION AND SCALE FACTOR (CF) AT A CENTRAL POINT (MCP) AND TRANSLATING THE RESULTING COORDINATES AS FOLLOWS:

$NP\_LDC = (NP\_ACS83 - MCP\_ACS83) * CF + MCP\_ACS83 - KN$   
 $EP\_LDC = (EP\_ACS83 - ECP\_ACS83) * CF + ECP\_ACS83 - KE$

WHERE:

NP\\_LDC = LOCAL NORTH NP\\_ACS83 = ACS 83 NORTH  
 NP\\_ACS83 = ACS 83 AT CENTRAL POINT  
 EP\\_LDC = LOCAL EAST EP\\_ACS83 = ACS 83 EAST  
 ECP\\_ACS83 = ACS 83 AT CENTRAL POINT  
 COMBINED FACTOR (CF) = 0.99994527  
 MCP = 547 435.53 (ACS83) ECP = 200 374.47 (ACS83)  
 KN = 0.00 KE = 0.00

**VERTICAL CONTROL:**  
 THIS SURVEY UTILIZED THE ORTHOMETRIC HEIGHTS AS DETERMINED BY THE STATIC GPS SURVEY THROUGH OPUS. THE BENCH MARKS INCORPORATED IN THIS SURVEY ARE:

**STATION REFERENCE ELEVATION:**  
 PTH: OPUS 88.19 PROJECT BENCHMARK

ORTHOMETRIC HEIGHTS (ELEVATIONS) WERE DERIVED FROM GPS ELLIPSOID HEIGHT MEASUREMENTS AND THE APPLICATION OF A HIGH-RESOLUTION HYBRID GEOID MODEL, GEOID 18.

## DESIGN DATA

DESIGN SPEED = 25 MPH  
 POSTED SPEED = 25 MPH

## MIDPOINT OF PROJECT

Western Zone  
 State Plane Coordinates  
 X=262004.78  
 Y=942145.25

## LENGTH OF PROJECT

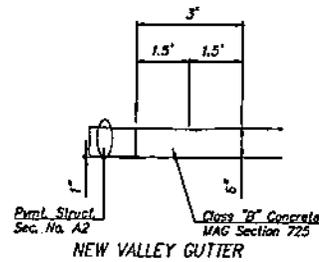
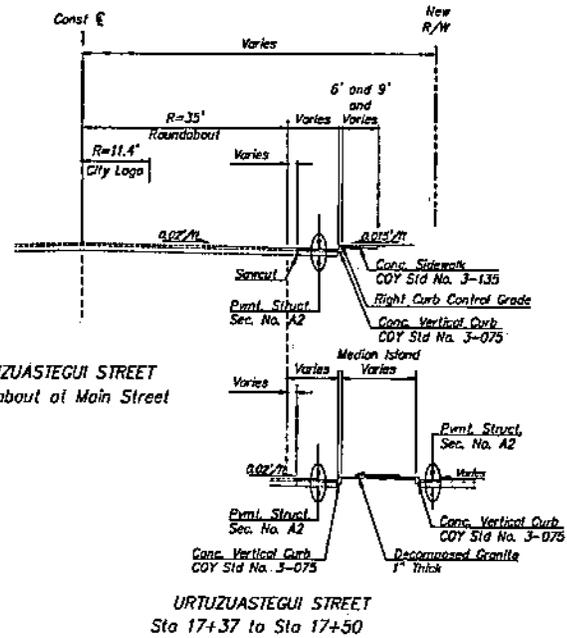
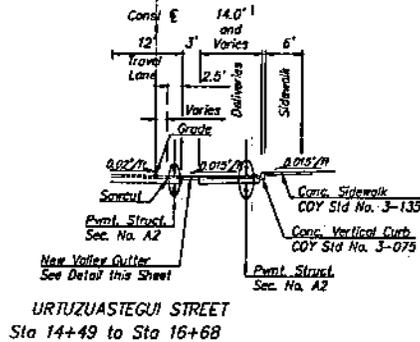
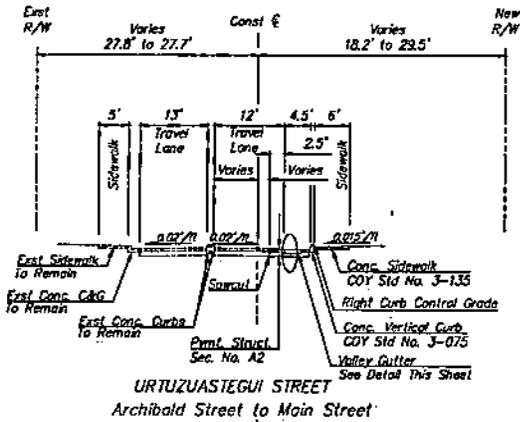
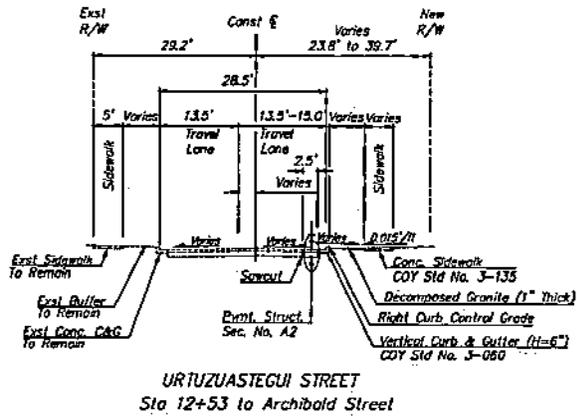
Urtuzategui Street  
 Sta 12+63.88 to 26+06.80 = 1753.12

Know what's below.  
 Call before you dig.



	<b>PSOMAS</b>		225 E. MICHIGAN ROAD SUITE 400 SAN LUIS, AZ 85301 TEL: 520.330.2100
	SCALE: 11/1/23	APPROVED BY:	DRAWING: JY, RC, AP
	DATE:	C.T.P. NO.	
	SAN LUIS # LAND PORT OF ENTRY OFFSITE		
INDEX & DESIGN PLAN			3 of 38

10/27/2023 10:11:08 AM T: 10/27/2023 10:11:08 AM U: 10/27/2023 10:11:08 AM P: 10/27/2023 10:11:08 AM S: 10/27/2023 10:11:08 AM

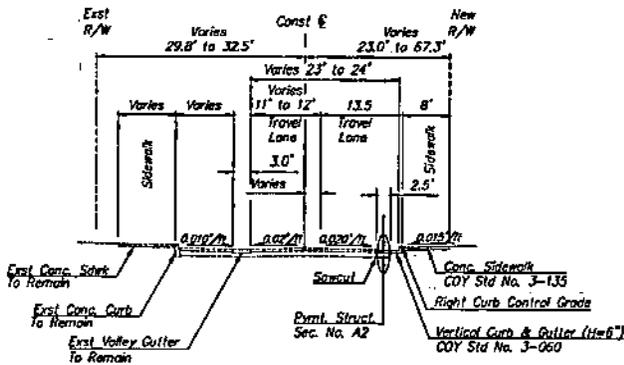


- Notes:
1. See Geometry Sheets for curb information and south Right-of-Way line.
  2. Pavement Marking Sheets for striping layout.
  3. See Details for Pavement Structural Sections

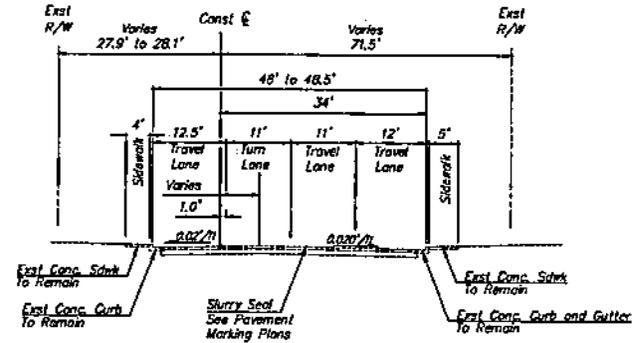
How much below.  
Call before you dig.



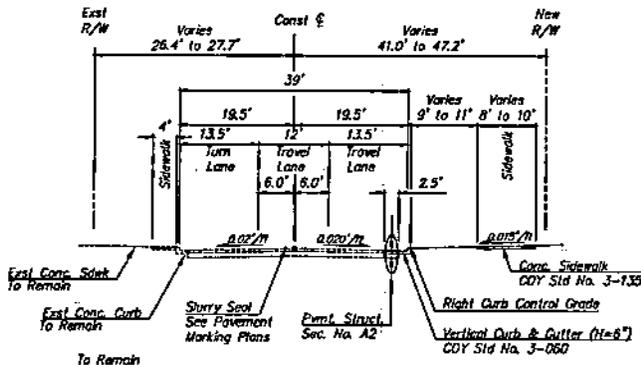
	<b>PSOMAS</b>		333 E. METairie ROAD, SUITE 402 LAFAYETTE, LA 70503 504 987 7200
	SCALE: N.T.S.	APPROVED BY:	DRAWN: J.V., R.G., A.P.
DATE: 11/1/23		C.I.P. NO.	
SAN LUIS I LAND PORT OF ENTRY OFFSITE			
TYPICAL SECTIONS			4 of 38



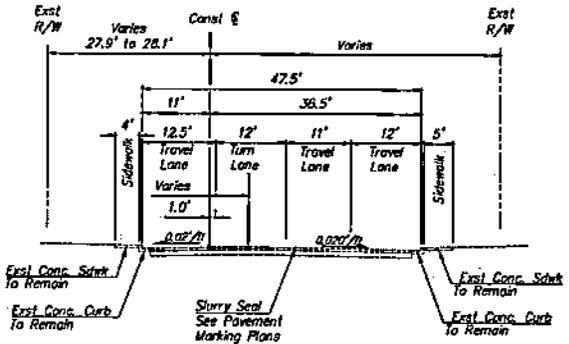
URTUZUASTEGUI STREET  
 Main Street to William Brooks Avenue (1st Street)



URTUZUASTEGUI STREET  
 2nd Avenue to Cesar Chavez Street



URTUZUASTEGUI STREET  
 William Brooks Avenue (1st Street) to 2nd Avenue



URTUZUASTEGUI STREET  
 Cesar Chavez Street to 4th Avenue

- Notes:
1. See Geometry Sheets for curb information and south Right-of-Way line.
  2. Pavement Marking Sheets for striping layout.
  3. See Details for Pavement Structural Sections

Know what's below.  
 Call before you dig.



	<b>PSOMAS</b>		<small>ALL S. MICHIGAN ROAD        BOX 400        MICHIGAN, MI 48107-0400        (313) 997-7200</small>
	SCALE: N.T.S.	APPROVED BY:	DRAWN: J.V. RC, AP
	DATE: 11/7/23		C.I.P. NO.
	SAN LUIS I LAND PORT OF ENTRY OFFSITE		TYPICAL SECTIONS



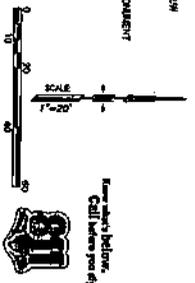
**SHEET NOTES**

Line #	Length	Bearing
1	35.50	S89°42.11'E
2	6.50	N07°29.30'W
3	34.50	S07°35.92'W
4	47.50	N17°01.15'W
5	68.50	S81°27.26'W
6	67.75	S27°44.22'W
7	4.50	N05°27.11'W
8	42.71	S89°23.58'W
9	16.57	S09°01.82'W
10	66.87	N09°01.82'W
11	12.45	N07°01.43'W
12	58.42	S29°29.28'W
13	6.58	N07°29.30'W
14	10.07	S89°27.21'W
15	17.21	S69°06.64'W
16	4.25	N07°01.43'W
17	12.15	N01°18.45'W
18	23.60	S89°07.52'W
19	37.23	S11°39.21'W

Curve Data	Curve #	Length	Radius	Delta
1	1	30.31	35.50	63.44
2	2	24.54	25.00	60.18
3	3	17.20	61.50	1.84
4	4	20.00	50.00	41.57
5	5	15.50	10.00	100.00

POINT	MONUMENT	EASTING	ELEVATION	DESCRIPTION
1	542432.41	280914.75	99.85	BEGAN PROJECT
2	542446.87	281881.27	151.00	MAIN ST
3	542446.39	282008.49	132.27	WILLIAM BROOKS
4	542442.77	282371.41	133.11	2ND ST
5	542440.89	282897.40	131.77	CESAR CHAVEZ ST
6	542438.10	283004.75	N/A	END OF PROJECT

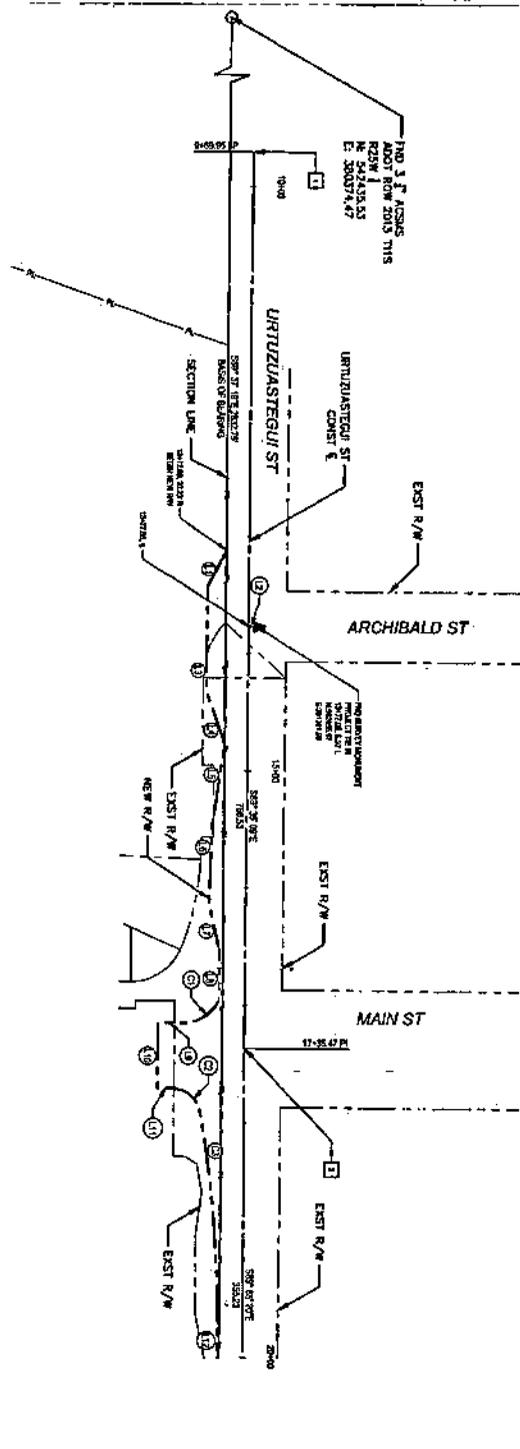
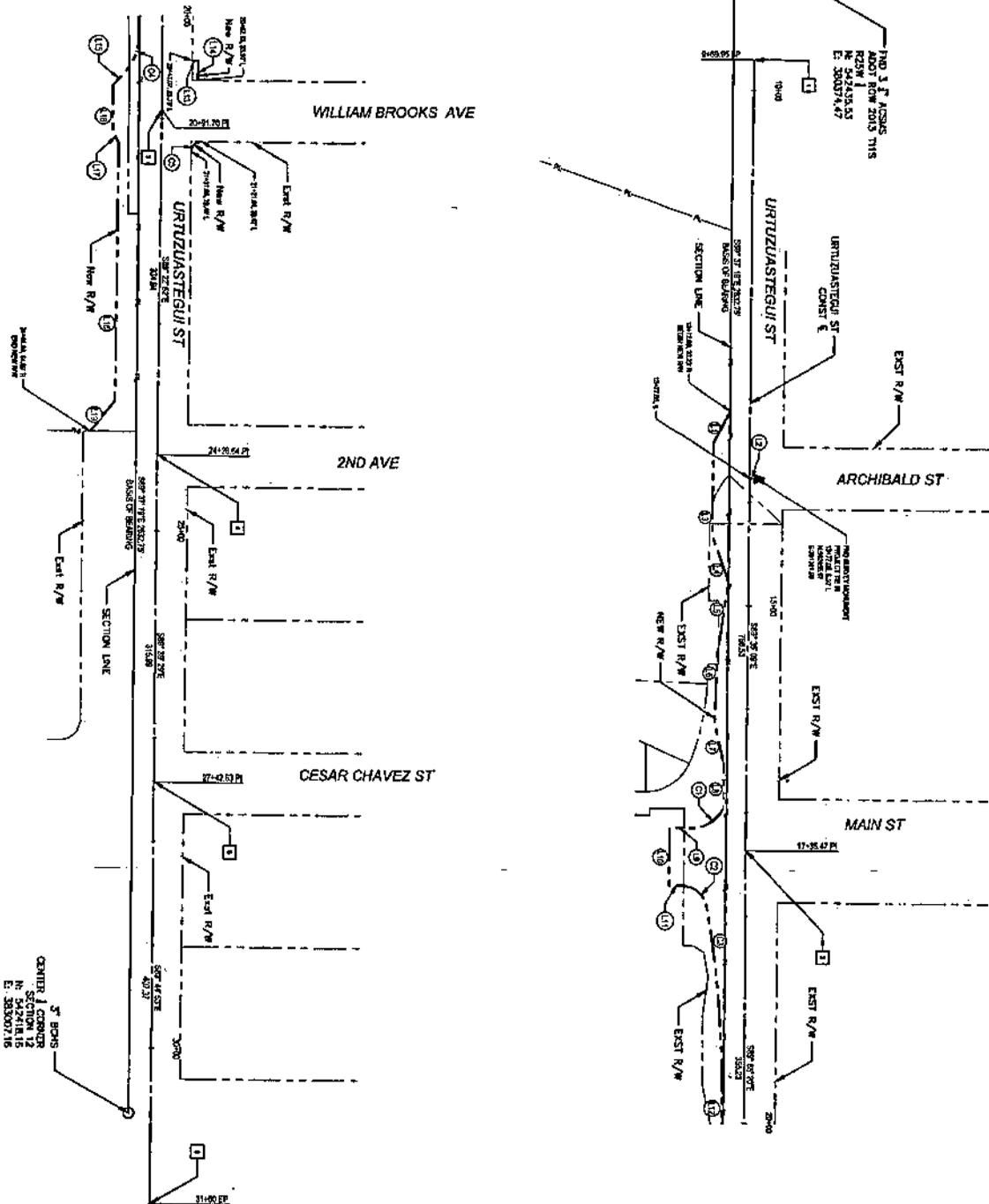
**LEGEND**



See sheet below.  
 Cell letters per Eq.



**P. SOMAS**  
 SCALE: 1" = 40'  
 DATE: 11/1/23  
 SAN LUIS I LAND PORT OF ENTRY OFFSITE  
 HORIZONTAL CONTROL PLAN 7 OF 38

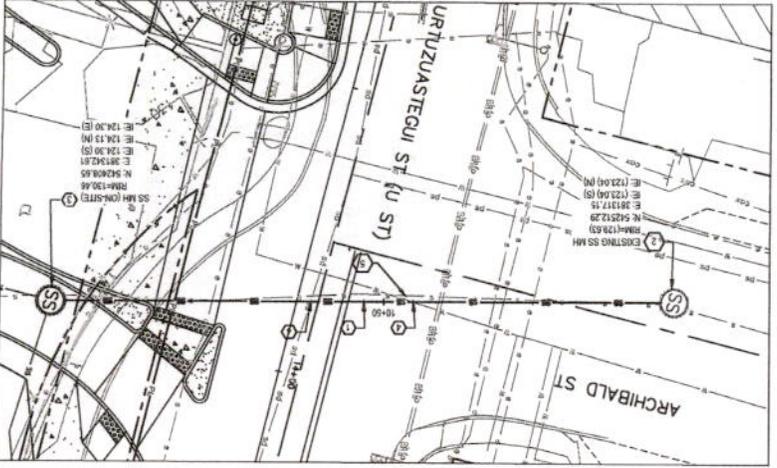


CENTER CORNER  
 SECTION 12  
 N. 242418.15  
 E. 283007.16

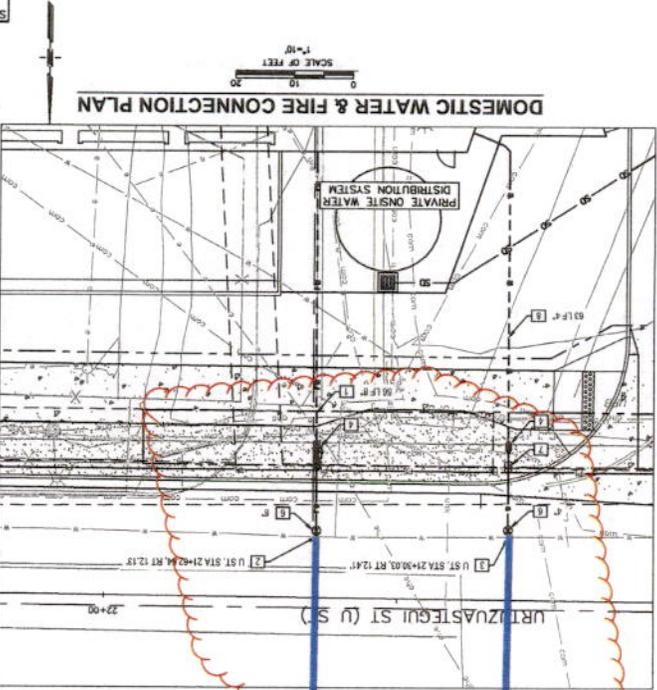
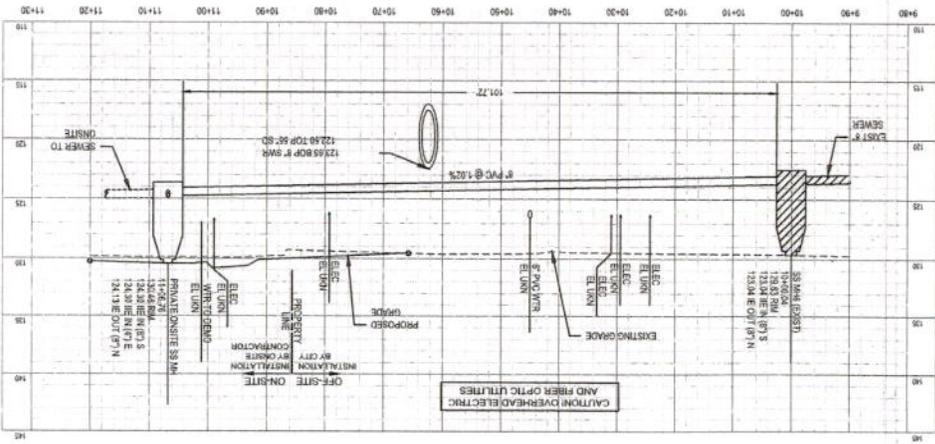
100.31' ACROSS  
 ADJUST ROW 2013 THIS  
 R25W 1  
 N. 242438.33  
 E. 283007.47

THIS BENCHMARK  
 WAS SET BY  
 SURVEYOR  
 11/1/23





**8" SEWER CONNECTION PROFILE**  
SCALE: 1"=10'-H  
1"=5'-V



**DOMESTIC WATER & FIRE CONNECTION PLAN**  
SCALE OF FEET  
1"=10'

90% PRELIMINARY	DATE: 5/10/23	APPROVED BY: [Signature]	DRAWN: AY, KG
NOT FOR CONSTRUCTION	DATE: 5/10/23	C.L.P. NO.	SAN LUIS I LAND PORT OF ENTRY OFFSITE
PUBLIC SEWER AND WATER UTILITY CONNECTION			
OF: 35			

- GENERAL NOTES**
- MAINTAIN 7' CLEARANCE BETWEEN DOMESTIC WATER AND SANITARY SEWER PIPES IN ACCORDANCE WITH CITY OF YUMA CONSTRUCTION STANDARD DETAIL DRAWING NO. 5-022.
  - DEPTH OF COVER BASED ON FINISHED SURFACE. ELEVATION IN ULTIMATE CONDITION.
  - EXISTING UTILITY LOCATION, SIZES, AND DEPTHS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
  - PROVIDE RECEPTIVE AND TRAFFIC RATED RISERS AND COVERS FOR RELOCATED OR ADJUSTED UTILITY STRUCTURES.
  - MAINTAIN 12-INCH MINIMUM VERTICAL SEPARATION BETWEEN WATER LATERALS AND ANY OTHER UTILITIES.
  - TRENCHING AND PAVEMENT RESTORATION SHALL BE PROVIDED IN KIND. WATER MAIN APPROVED WITHIN URTUZAUSTEGUI ST. WILL BE PERFORMED PRIOR TO DOMESTIC AND FIRE SERVICE CONNECTIONS.

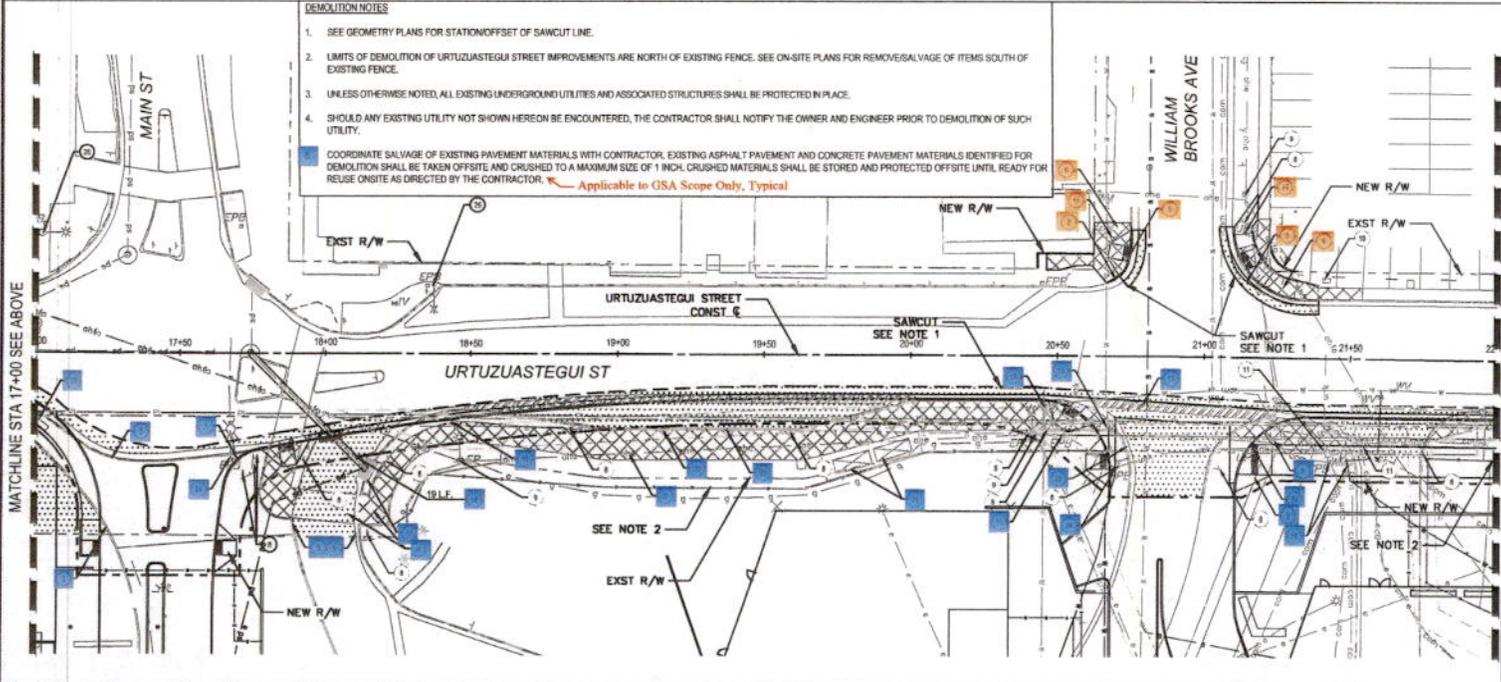
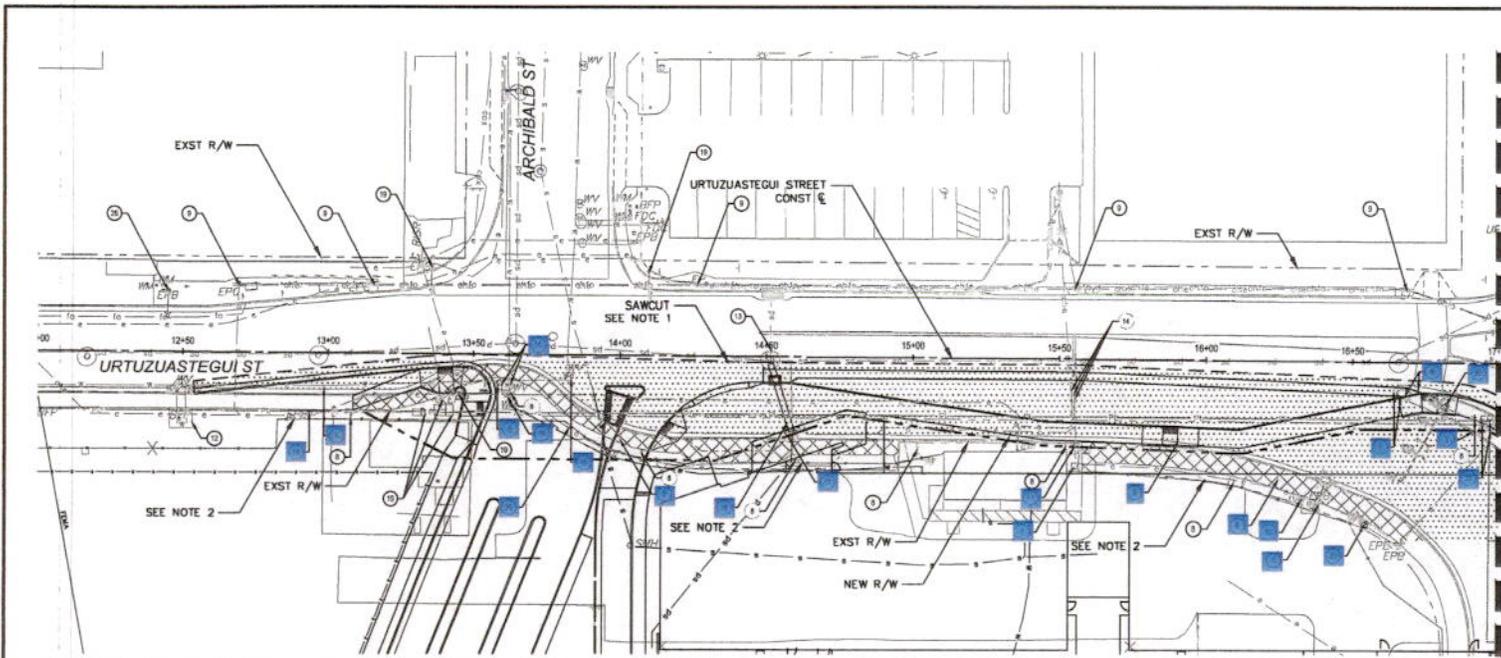
- LEGEND**
- FIRE WATER LINE TO BE INSTALLED BY ONSITE CONTRACTOR
  - DOMESTIC WATER TO BE INSTALLED BY ONSITE CONTRACTOR
  - ADOT ROW EASEMENT LINE
  - - - PROPERTY LINE
  - - - UTILITY EASEMENT LINE
  - SEWER CLEANOUT
  - EXISTING SEWER MANHOLE
  - SEWER MANHOLE
  - SANITARY SEWER LINE
  - FIRE WATER LINE TO BE INSTALLED BY CITY
  - WATER LINE TO BE INSTALLED BY CITY

**APPROVED**  
January 17, 2023  
City of San Luis  
Department of Public Work

- SEWER NOTES:**
- PVC SEWER LINE (SBR 35), SIZE, LENGTH AND SLOPE PER PLAN AND PROFILE. PIPE BEDDING AND TRENCH PER CITY OF YUMA STD DETAIL 5-010.
  - SMALL VENTURY EXISTING INVERT OUT TO ENSURE 0.19' FE DROP ACROSS THE MANHOLE.
  - SANITARY SEWER MANHOLE PER CITY OF YUMA STD DETAIL 6-020.
  - UTILITY CROSSING, SEE PROFILE FOR CROSSING ELEVATION INFORMATION.
  - REMOVE EXISTING 4" DIAMETER SEWER CONNECTION.
  - WATER NOTES:
  - PVC WATER LINE (C900) CL 205, SIZE AND LENGTH PER PLAN, PIPE BEDDING AND TRENCH PER CITY OF YUMA STD DETAIL 5-010.
  - 8" X 8" TAP X 8" TAPPING SADDLE WITH THRUST BLOCK PER CITY OF YUMA STD DETAIL 5-025 AND 5-026. STREET C.L. STATION AND OFFSET PER PLAN, TAPPING SADDLE AND WATERLINE TO PROPERTY LINE TO BE SUPPLIED AND INSTALLED BY CITY FORCES.
  - 8" X 4" WET TAP (8" X 4" TAPPING SADDLE) WITH THRUST BLOCK PER CITY OF YUMA STD DETAIL 5-040 AND 5-026. STREET C.L. STATION AND OFFSET PER PLAN, WATER SERVICE CONNECTION AND METER TO BE SUPPLIED AND INSTALLED BY CITY FORCES.
  - PRIVATE BACKFLOW ASSEMBLY, SHOWN FOR REFERENCE ONLY.
  - PVC WATER LINE (SCHEDULE 80), SIZE AND LENGTH PER PLAN, PIPE BEDDING AND TRENCH PER CITY OF YUMA STD DETAIL 5-010.
  - GATE VALVE TO BE INSTALLED BY CITY FORCES, SIZE PER PLAN.
  - 7" DOMESTIC METER PER CITY OF YUMA STD DETAIL 5-050 TO BE INSTALLED PER CITY FORCES.

**SHEET NOTES**

PROJECT - 16/07/2023 10:11:03 AM 11:00:00 - 8/27/2023 8:30:14 PM 11:00:00 - SAN LUIS I LAND PORT OF ENTRY OFFSITE DEMOLITION PLAN 11:00:00



- DEMOLITION NOTES**
- SEE GEOMETRY PLANS FOR STATION/OFFSET OF SAWCUT LINE.
  - LIMITS OF DEMOLITION OF URTZUASTEGUI STREET IMPROVEMENTS ARE NORTH OF EXISTING FENCE. SEE ON-SITE PLANS FOR REMOVE/SALVAGE OF ITEMS SOUTH OF EXISTING FENCE.
  - UNLESS OTHERWISE NOTED, ALL EXISTING UNDERGROUND UTILITIES AND ASSOCIATED STRUCTURES SHALL BE PROTECTED IN PLACE.
  - SHOULD ANY EXISTING UTILITY NOT SHOWN HEREON BE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER PRIOR TO DEMOLITION OF SUCH UTILITY.
- COORDINATE SALVAGE OF EXISTING PAVEMENT MATERIALS WITH CONTRACTOR. EXISTING ASPHALT PAVEMENT AND CONCRETE PAVEMENT MATERIALS IDENTIFIED FOR DEMOLITION SHALL BE TAKEN OFFSITE AND CRUSHED TO A MAXIMUM SIZE OF 1 INCH. CRUSHED MATERIALS SHALL BE STORED AND PROTECTED OFFSITE UNTIL READY FOR REUSE ONSITE AS DIRECTED BY THE CONTRACTOR. *Applicable to GSA Scope Only, Typical*

**SHEET NOTES**

- REMOVE EXISTING LIGHT. REMOVE EXISTING PULL BOXES, CONDUIT AND ELECTRICAL WIRING SEE LIGHTING PLAN FOR MORE INFORMATION.
- REMOVE AND SALVAGE EXISTING CHAIN LINK FENCE, IRON FENCE AND GATES, INCLUDING FOUNDATIONS.
- REMOVE AND DISPOSE EXISTING CONCRETE CURBS.
- REMOVE AND DISPOSE EXISTING SITERETAINING WALLS AND FOUNDATIONS.
- REMOVE AND DISPOSE EXISTING CONCRETE CURB AND GUTTER.
- REMOVE AND DISPOSE EXISTING SIDEWALK/CONCRETE, PAVER PLATFORMS AND BASE, FULL DEPTH. SEE DEMO NOTE 5.
- RELOCATE EXISTING SERVICE METER FOR TRAFFIC SIGNAL CONTROLLER AT ARCHIBALD ST. AND STREET LIGHTS. SEE TRAFFIC SIGNAL PLANS.
- EXISTING SIGNS SEE SIGNING PLANS.
- PROTECT IN PLACE EXISTING OVERHEAD UTILITY POLE.
- EXISTING IRRIGATION VALVE, TO BE REMOVED
- ADJUST TO FINISHED GRADE MISCELLANEOUS DRY UTILITY EQUIPMENT, PULL BOXES, MANHOLES.
- PROTECT IN PLACE EXISTING WET UTILITY STRUCTURE.
- EXISTING STORM DRAIN MANHOLE, RESET TO FINISHED GRADE.
- PROTECT IN PLACE EXISTING MISCELLANEOUS DRY UTILITY EQUIPMENT, PULL BOXES, AND CONDUIT.
- EXISTING WET UTILITY (VALVES, METERS) ADJUST TO FINISHED GRADE.
- REMOVE EXISTING WATER METER.
- REMOVE AND DISPOSE EXISTING STORM DRAIN CATCH BASIN.
- REMOVE AND DISPOSE EXISTING STORM DRAIN PIPE. SEE STORM DRAIN PLAN.
- PROTECT IN PLACE EXISTING TRAFFIC SIGNAL EQUIPMENT, POLE, ARM, FOUNDATION, EXISTING PULL BOXES, CONDUIT AND ELECTRICAL WIRING. SEE TRAFFIC SIGNAL PLAN FOR MORE INFORMATION.
- REMOVE EXISTING TRAFFIC SIGNAL POLE, MAST ARM, AND FOUNDATION. EXISTING CONTROLLER CABINET, CABINET FOUNDATION, EXISTING PULL BOXES, CONDUIT AND ELECTRICAL WIRING SEE TRAFFIC SIGNAL PLAN.
- REMOVE AND DISPOSE EXISTING STRUCTURES, CANOPY, COLUMNS, MSC. EQUIPMENT, AND CONCRETE BARRIERS, INCLUDING FOUNDATIONS WHERE APPLICABLE.
- REMOVE AND DISPOSE EXISTING BOLLARDS/POSTS, FULL DEPTH INCLUDING FOUNDATION.
- SEE SEPARATE ONSITE FOR WORK OUTSIDE EXISTING STREET RIGHT-OF-WAY.
- REMOVE EXISTING PULLBOX, SEE LIGHTING OR TRAFFIC SIGNAL SHEETS.
- REMOVE AND DISPOSE EXISTING SIDEWALK SCURPPER.
- PROTECT IN PLACE EXISTING LIGHT POLE, PULL BOXES, AND CONDUIT.

**LEGEND**

- REMOVE EXISTING ASPHALT PAVEMENT, AGGREGATE BASE TO THE FULL DEPTH, AND PERIMETER CURB/GUTTER (WHERE OCCURS, SEE DEMOLITION NOTE 5).
- REMOVE EXISTING CONCRETE PAVEMENT, AGGREGATE BASE, AND PERIMETER CURB/GUTTER (WHERE OCCURS, SEE DEMOLITION NOTE 5).
- REMOVE EXIST CONCRETE V-GUTTER

Know what's below. Call before you dig.



**PSOMAS** 333 F NETWORK ROAD, SUITE 405, VICTORIA, BC V8W 2R8, 250.982.2700

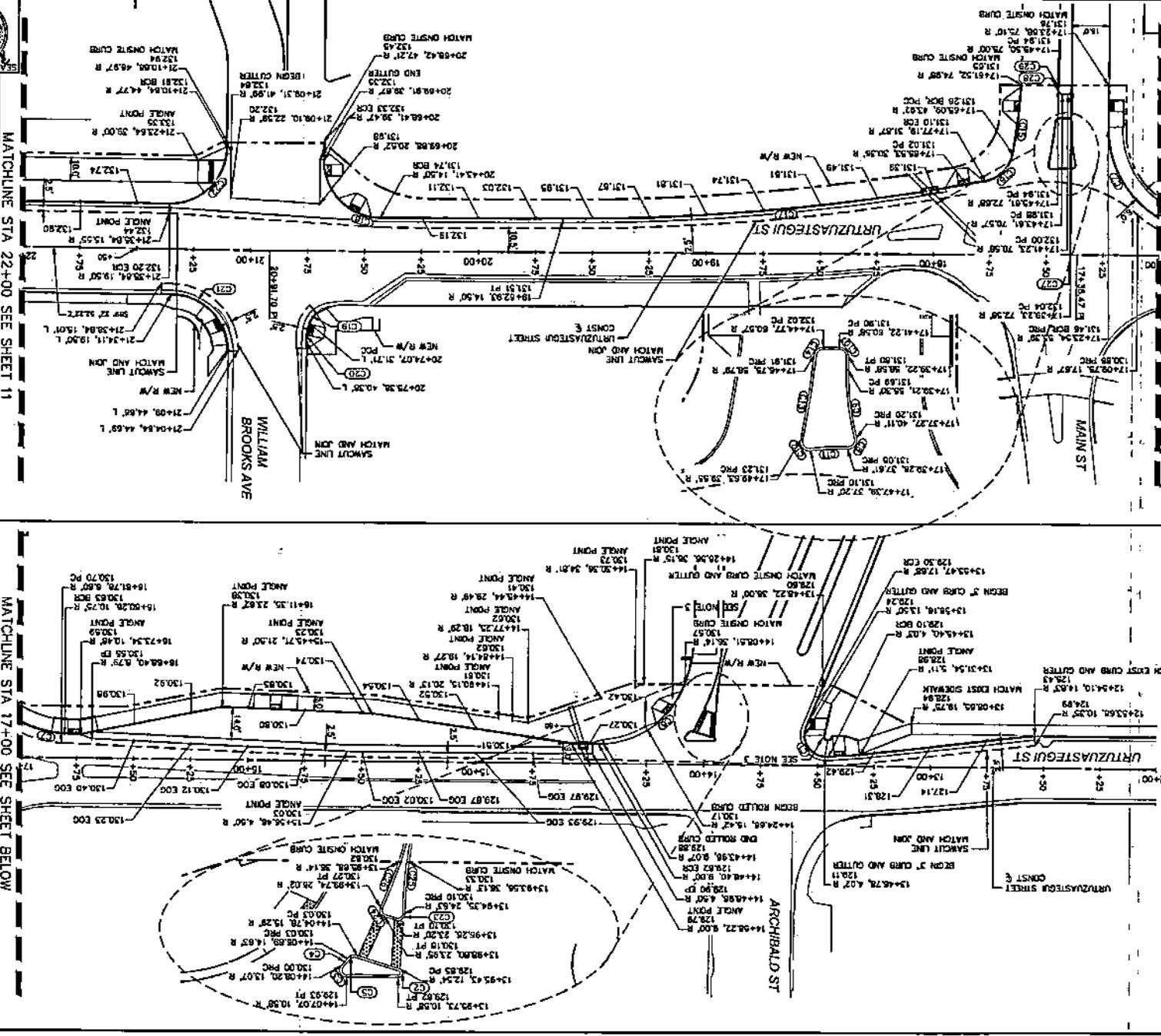
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 DATE: 11/1/23 C.I.P. NO.

SAN LUIS I LAND PORT OF ENTRY OFFSITE  
 DEMOLITION PLAN 8 OF 38

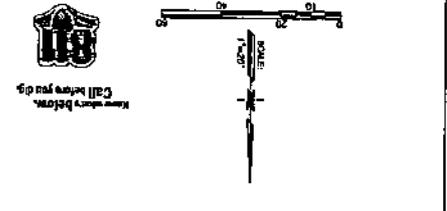




MATCHLINE STA 17+00 SEE SHEET ABOVE



10 of 38  
 GEOMETRY PLAN  
 SAN LUIS I LAND PORT OF ENTRY OFFSITE  
 DATE: 11/7/23  
 SCALE: 1"=20'  
 APPROVED BY: [Signature]  
 DRAWN BY: [Signature]  
 P-S-O-M-A-S  
 1117 S. 20th Street, Suite 100  
 Phoenix, AZ 85024  
 Call before you dig.



**LEGEND**  
 1. XXXXX = BACK OF CURB ELEVATION  
 2. XXXXX EOG = EDGE OF CUTTER ELEVATION  
 3. SEE DETAILS FOR GEOMETRY POINTS

GEOMETRY PLAN NOTES

Curve #	Length	Radius	Offset	Tangent
C1	2.28	10.00	116.0235	16.02
C2	2.88	1.00	16338.42	6.84
C3	3.43	1.50	13170.54	3.30
C4	2.04	57.00	272.46	1.02
C5	2.35	2.00	67.2310	1.33
C6	49.74	40.00	714.49	28.66
C7	66.64	45.00	672.36	43.00
C8	3.72	2.00	106.3526	2.66
C9	15.30	61.00	14.7505	7.72
C10	3.14	2.00	60.0016	2.00
C11	61.13	46.50	1070.12	4.06
C12	3.79	2.00	10839.45	2.79
C13	19.46	290.00	627.35	9.73
C14	2.92	2.00	63.8721	1.73
C15	31.29	234.00	739.35	15.66
C16	16.16	13.00	6925.02	10.38
C17	172.34	1000.00	1073.06	89.41
C18	39.24	25.00	6955.20	24.97
C19	6.52	11.20	3322.23	3.36
C20	4.81	25.00	2071.36	4.45
C21	39.54	25.00	6073.31	25.22
C22	39.54	25.00	6073.06	25.22
C23	2.77	1.50	10546.45	1.98
C24	2.58	1.50	8622.17	1.74
C25	15.44	1000.00	63635	5.77
C26	10.83	60.82	740.16	5.42
C27	3.14	2.00	6959.42	2.00
C28	3.25	2.00	9309.96	2.11
C29	2.32	250.00	631.52	1.16

SHEET NOTES

MATCHLINE STA 17+00 SEE SHEET BELOW

MATCHLINE STA 22+00 SEE SHEET 11







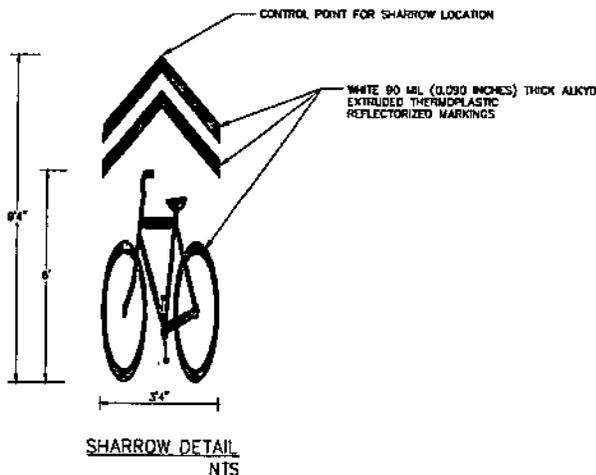


**PAVEMENT MARKING NOTES:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF THE PERMANENT PAVEMENT MARKING FOLLOWING CONTROL POINT THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED.
2. THE FINAL STRIPING SHALL BE 90 MIL (0.090 INCHES) THICK EXTRUDED THERMOPLASTIC REFLECTORIZED STRIPING PLACE AS SHOWN IN THE PROJECT PLANS.
3. ALL FINAL STOP BARS, PAVEMENT ARROWS, CROSSWALK LINES, "ONLY" LEGENDS, AND YIELD TRIANGLES SHALL BE WHITE 90 MIL (0.090 INCHES) THICK ALKYD EXTRUDED THERMOPLASTIC REFLECTORIZED MARKINGS.
4. ALL RAISED PAVEMENT MARKERS SHALL HAVE AN ABRASION-RESISTANT COATING ON THE FACE OF THE PRISMATIC REFLECTORS AND SHALL CONFORM TO THE DETAILS OF ADOPT STD. DRWGS. THEY SHALL BE INSTALLED WITH BITUMINOUS ADHESIVE WHICH IS ON THE ADOPT APPROVED PRODUCTS LIST.
5. ALL RAISED PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
6. TYPE "C" PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE CLEAR REFLECTIVE FACE OF EACH MARKER IS FACING APPROACHING TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF THE TRAFFIC FLOW.
7. WHERE RAISED PAVEMENT MARKERS ARE PLACED ALONG SOLID STRIPING, THE NEAREST EDGE OF EACH MARKER SHALL BE OFFSET ONE INCH FROM THE NEAREST EDGE OF THE STRIPING.
8. WHEN STRIPE OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED BY WATER BLASTING OR OTHER APPROVED METHODS. THE CONTRACTOR SHALL THEN SLURRY THE AREA AS PER MAG STANDARD SPECIFICATION T15, WITH EMULSIFIED ASPHALT SLURRY SEALANT TYPE II OR AS DIRECTED BY THE PROJECT INSPECTOR. THE CONTRACTOR SHALL NOT INSTALL NEW PAVEMENT MARKINGS UNTIL THE SLURRY SEAL HAS CURED AT A MINIMUM OF 72 HOURS. PAINTING OVER PAVEMENT MARKING DOES NOT CONSTITUTE PAVEMENT MARKING OBLITERATION.
9. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER, BY SWEEPING AND AIR-JET BLOWING. IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS, THE ROADWAY SURFACE SHOULD BE DRY. THE PAVEMENT TEMPERATURE SHALL NOT BE LESS THAN 40 DEGREES F AND THE AIR TEMPERATURE SHALL NOT BE LESS THAN 35 DEGREES F FOR THE PLACEMENT OF EPOXY PAVEMENT MARKINGS. THE ROADWAY SURFACE SHALL BE DRY AND THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 60 DEGREES F FOR THE INSTALLATION OF TYPE 1 PAVEMENT MARKING TAPE, AND SHALL NOT BE LESS THAN 50 DEGREES F FOR THE INSTALLATION OF EXTRUDED THERMOPLASTIC.
10. THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS AND DETAILS WHEN INSTALLING PAVEMENT MARKINGS.
11. STRIPING AT END OF ROADWAY WORK TO MATCH EXISTING STRIPING.
12. DIMENSIONS SHOWN TO THE PAVEMENT STRIPING ARE TO THE CENTER OF THE STRIPING OR, IN THE CASE OF DOUBLE STRIPING, TO THE CENTER OF THE DOUBLE STRIPING.

**SIGNING NOTES:**

1. ALL SIGNS SHALL BE IN COMPLIANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2003 MUTCD), THE 2012 ARIZONA SUPPLEMENT, ADOPT SIGNING AND MARKING STANDARD DRAWINGS, AND THE TRAFFIC ENGINEERING MANUAL OF APPROVED SIGNS.
2. THE SIGN LOCATIONS AND POST LENGTHS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE SIGN LOCATIONS AND ACTUAL POST LENGTHS WITH THE ENGINEER PRIOR TO CONSTRUCTING THE FOUNDATION FOR THE SIGN SUPPORTS.
3. THE BOTTOM OF EACH SIGN SHALL BE AT LEAST 7 FEET ABOVE THE NEAREST EDGE OF PAVEMENT AND AT LEAST 7 FEET ABOVE THE GROUND UNDER THE SIGN.
4. OFFSETS FOR ALL SIGNS SHALL BE MEASURED FROM THE EDGE OF THE ROADWAY TO THE NEAREST SIGN POST.
5. THE RETRO-REFLECTIVE SHEETING ON ALL NEW SIGNS SHALL MEET THE MINIMUM CRITERIA ESTABLISHED FOR TYPE XI SHEETING IN THE REVISED ASTM D4956 AND THE ADOPT SPECIFICATIONS. SEE SECTION 1007 IN THE SPECIFICATIONS.
6. ALL NEW SIGNS SHALL BE INSTALLED ON SQUARE TUBE POSTS WITH FOUNDATIONS AS INDICATED IN ADOPT DWG. S-4.
7. SHOP DRAWINGS ARE REQUIRED FOR ALL GUIDE SIGNS.
8. THE CONTRACTOR SHALL REMOVE EXISTING SIGNING WHERE INDICATED ON PLANS, AND SALVAGED TO THE CITY OF SAN LUIS. CONTACT THE CITY OF SAN LUIS STREETS DIVISIONS, (928)344-6599 48 HOURS PRIOR TO SIGN REMOVAL FOR INFORMATION ON WHERE TO DELIVER THE SIGNS.
9. THE CONTRACTOR SHALL INVENTORY ALL SIGNS TO BE REMOVED OR COVERED, AND NOT DAMAGED SIGNS TO THE ENGINEER AT THE TIME OF COVERING OR REMOVAL. ALL SIGNS DAMAGED BY COVERING OR REMOVAL SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY OF SAN LUIS.
10. NEW STREET NAME SIGNS SHALL HAVE 0.025 TREATED ALUMINUM GAUGE WITH CUTTABLE FILM OR SILK SCREEN INKS WITH U60 PROTECTIVE FILM.



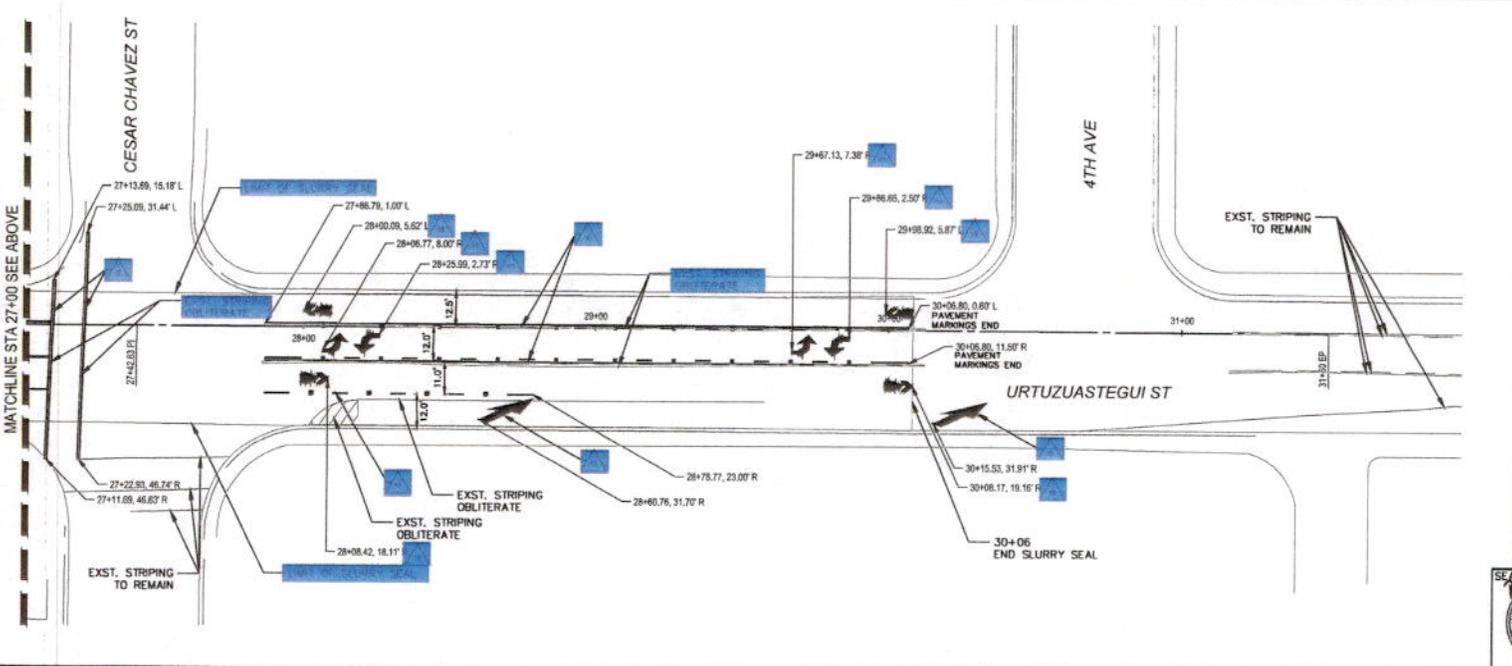
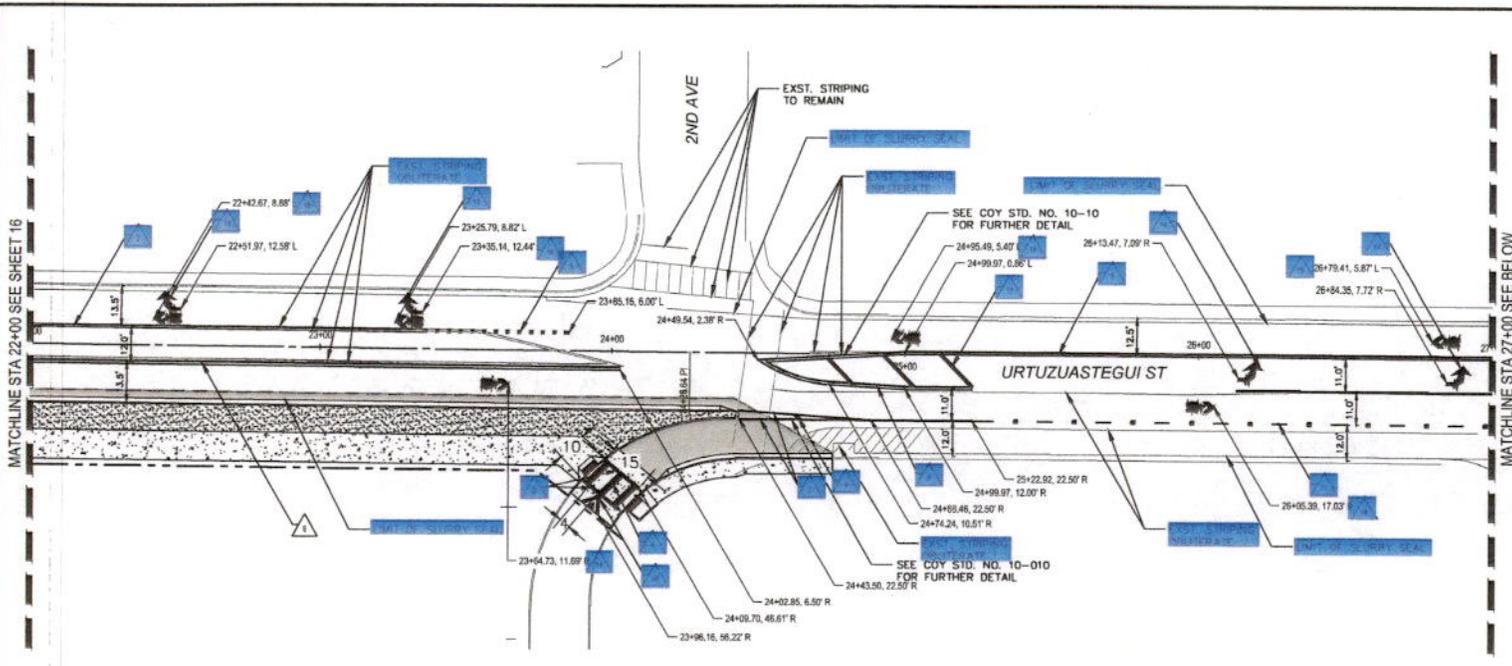
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	<b>PSOMAS</b>		<small>250 F. WILSON ROAD SUITE 200 MESA, AZ 85204 602.977.7708</small>
	<small>SCALE: N/A</small> <small>DATE: 11/7/23</small>	<small>APPROVED BY:</small> <small>(Signature)</small>	<small>DRAWN: J.V. R.C. AP</small> <small>C.P. NO.</small>
<small>SAN LUIS I LAND PORT OF ENTRY OFFSITE MARKING AND SIGNING NOTES.</small>			



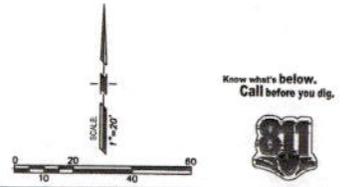
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**SHEET NOTES**

- △ NEW 18" WHITE SOLID (18SW) PER COY STD. NO. 10-020 AND 10-025. L.F.
- △ NEW 12" WHITE SOLID (12SW) PER COY STD. NO. 10-020 AND 10-025. L.F.
- △ NO ITEM L.F.
- △ NEW 24" WHITE SOLID (24SW) PER COY STD. NO. 10-020 AND 10-025. L.F.
- △ NEW 12" WIDE DOTTED WHITE LANE LINE (12LDW) PER COY STD. NO. 10-025. L.F.
- △ NEW 6" DOTTED WHITE (6DW) PER COY STD. NO. 10-025. L.F.
- △ NEW 24"x 36" WHITE YIELD LINE. L.F.
- △ NEW 6" DOUBLE SOLID YELLOW (6SDY) PER COY STD. NO. 10-025. L.F.
- △ NEW 6" COMBINATION YELLOW (6CY) PER COY STD. NO. 10-025. L.F.
- △ NEW 12" YELLOW SOLID (12SY) PER COY STD. NO. 10-025. L.F.
- △ NEW DOUBLE ARROW PER ADOT STANDARD DRAWING M-10 L.F.
- △ NEW STRAIGHT ARROW PER ADOT STANDARD DRAWING M-10 L.F.
- △ NEW RIGHT ARROW PER ADOT STANDARD DRAWING M-10 L.F.
- △ NEW LEFT ARROW PER ADOT STANDARD DRAWING M-10. L.F.
- △ NEW MERGING RIGHT TO LEFT PER ADOT STANDARD DRAWING M-11 L.F.
- △ NEW 12" WHITE SOLID (12SW) PER COY STD. 3-205 L.F.
- △ NEW 6" BROKEN WHITE PER COY STD. 10-205 L.F.
- △ NEW "SHARROW". SEE DETAIL. EA.
- \* ALL STRIPING SHALL BE THERMOPLASTIC MARKING.

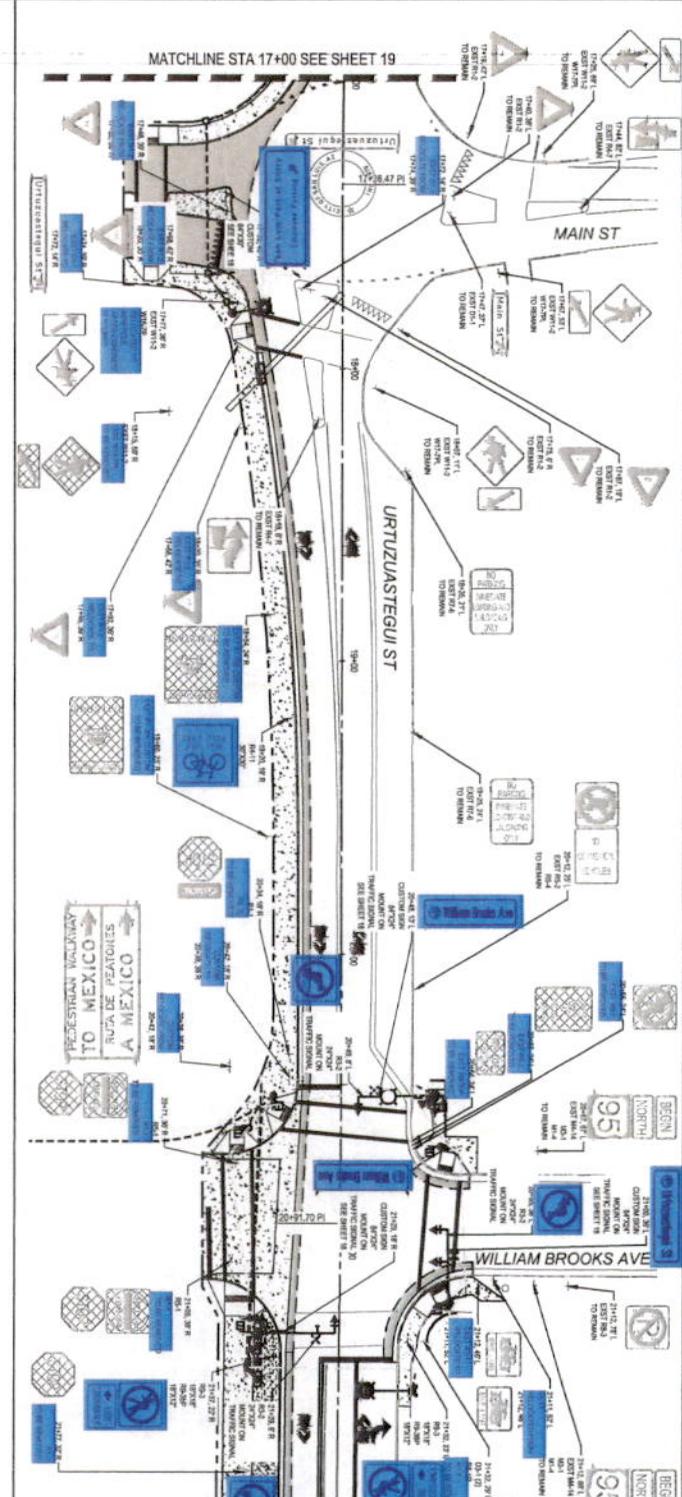
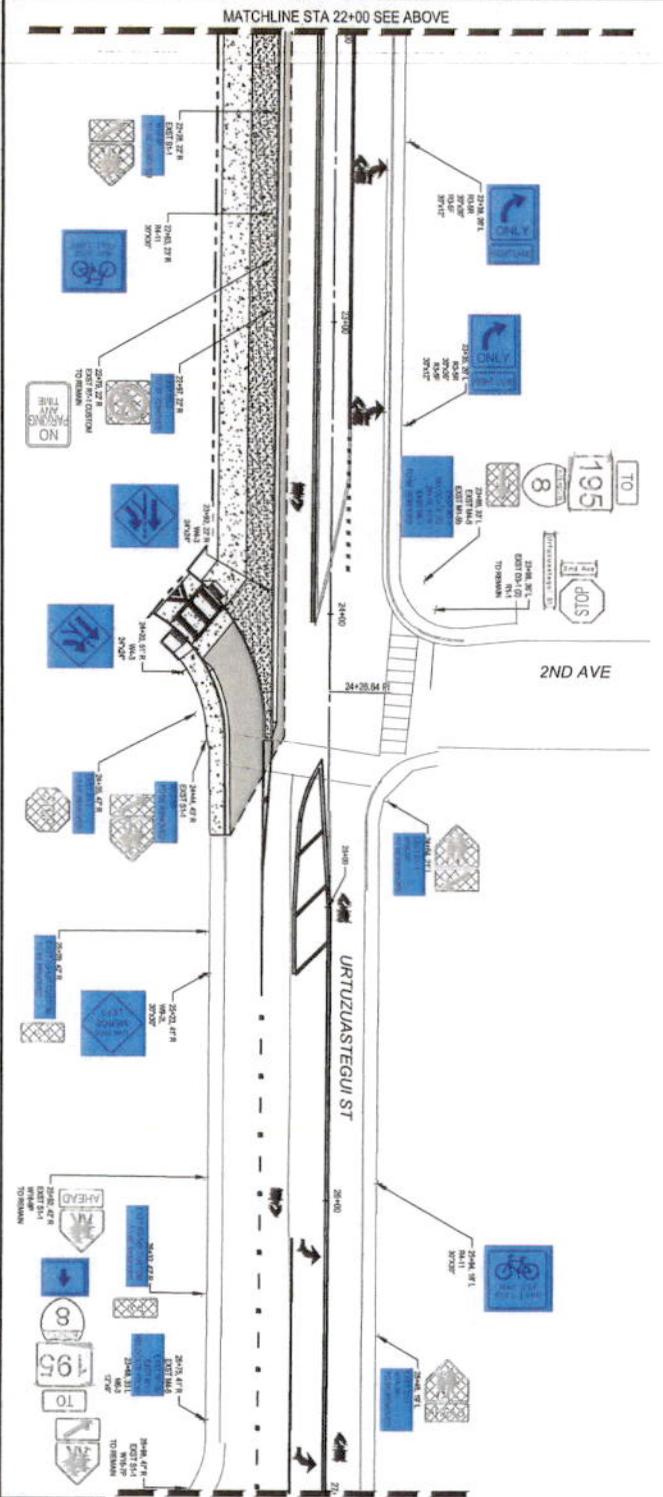
**LEGEND**



	<b>PSOMAS</b>		333 E NETWORK ROAD SUITE 400 LUBBOCK, TX 79406 806.292.2200
	SCALE: 1"=20'	APPROVED BY:	DRAWN: J.V. RC, AP
	DATE: 11/1/23	C.I.P. NO.	
	SAN LUIS I LAND PORT OF ENTRY OFFSITE		17 OF 38







**PSOMAS**  
 SCALE: 1"=20'  
 DATE: 11/7/23  
 SAN LUIS I LAND PORT OF ENTRY OFFSITE  
 SIGNING PLAN  
 20 OF 38

APPROVED BY: [Signature]  
 DRAWN BY: [Signature]  
 CIP NO. [Number]

SCALE 1"=20'

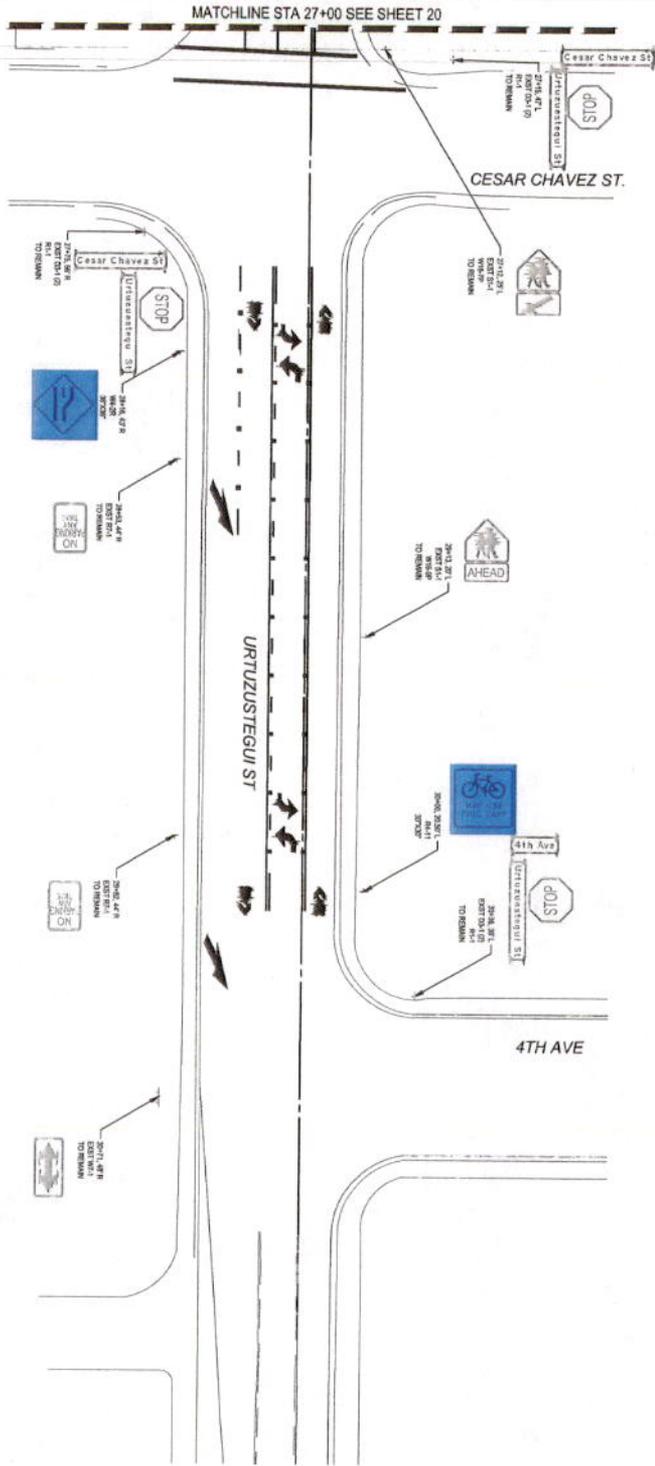
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 DATE: 11/7/23  
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 20 OF 38

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SHEET NOTES

LEGEND



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 333 E. 9th Street  
 San Luis, CA 95050  
 (530) 938-1111  
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 www.psomas.com

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 DATE: 11/1/23  
 SAN LUIS I LAND PORT OF ENTRY OFFSITE  
 SIGNING PLAN  
 21 OF 38

**TRAFFIC SIGNAL GENERAL NOTES:**

- ALL MATERIALS AND INSTALLATION SHALL CONFORM TO CITY OF YUMA CONSTRUCTION STANDARD DETAIL DRAWINGS (MAY 2018), ADOT 2021 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, AND 2017 NATIONAL ELECTRICAL CODE (NEC).
- THE LOCATION OF UTILITIES SHOWN ON THE PLANS IS APPROXIMATE. ALL INVOLVED UTILITIES MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES FOR EXACT LOCATIONS PRIOR TO ANY CONSTRUCTION. IF DISCREPANCIES EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL POT HOLE FOR UTILITIES. PRIOR TO INSTALLATION OF CONDUIT, THE CONTRACTOR SHALL POT HOLE FOR UTILITIES WHERE CONDUIT INSTALLATION SHALL CROSS EXISTING FACILITIES.
- THE CONTRACTOR SHALL MAINTAIN AT LEAST 10 FEET FROM ANY OVERHEAD APS POWER LINES, 3 FEET FROM ANY APS OR OTHER UTILITY POLES, 4 FEET FROM DRAINAGE DITCHES, AND AT LEAST 1 FOOT CLEARANCE FROM ALL OTHER UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM UTILITIES.
- THE TRAFFIC SIGNAL CONTRACTOR MUST COORDINATE WITH CITY OF YUMA COUNTY TRAFFIC CONTROL SUPERVISOR, JOSE ROMERO, AT (928) 341-2553 A MINIMUM OF 2 WEEKS PRIOR TO BEGINNING CONSTRUCTION WORK.
- THE TRAFFIC SIGNAL CONTRACTOR MUST COORDINATE WORK WITH THAT OF ANY OTHER CONTRACTORS WITHIN OR ADJACENT TO PROJECT LIMITS.
- ALL EQUIPMENT, EXCEPT SIGNAL CABINET EQUIPMENT, THAT IS REMOVED BY THE CONTRACTOR AND NOT REUSED MUST BE SALVAGED, PROTECTED FROM DAMAGE AND DELIVERED BY THE CONTRACTOR DURING NORMAL BUSINESS HOURS TO THE CITY OF SAN LUIS. CONTACT STREET DIVISION AT (928) 341-8577 FOR LOCATION OF DELIVERY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING POWER SOURCE LOCATIONS SHOWN ON THESE PLANS WITH APS AND FOR COORDINATION AN ACTUAL ESTABLISHMENT OF ELECTRICAL SERVICE WITH APS. THE CITY OF SAN LUIS WILL BE RESPONSIBLE FOR PAYMENT OF FEES.
- FOR ELECTRICAL SERVICE REQUIREMENTS, CONTACT DANIEL BARRERA OF ARIZONA PUBLIC SERVICE (APS) COMPANY AT (928) 815-0431, A MINIMUM OF 7 WORKING DAYS BEFORE SERVICE IS REQUIRED.
- THE CONTRACTOR SHALL CONTACT THE CITY OF SAN LUIS, STREET DIVISION AT (928) 341-8577 TO SCHEDULE THE TURN-ON OF THE NEW TRAFFIC SIGNAL.
- ALL PAVEMENT MARKINGS MUST BE INSTALLED PRIOR TO THE DAY OF TURN-ON. THE CONTRACTOR SHALL COORDINATE WITH THE CONTRACTOR RESPONSIBLE SIGNING INSTALLATION AND REMOVAL AT THE INTERSECTION OF URTUZUASTEGUI STREET AND 2ND AVENUE TO COORDINATE THE TIMING OF THE TRAFFIC SIGNAL TURN ON WITH THE TIMING OF THE STOP SIGN REMOVAL.
- ALL CONDUCTORS MUST BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- ALL SIGNAL HEAD, INCLUDING THOSE LOCATED ON TYPE A POLES, MUST BE SERVED FROM THE MAST ARM SIGNAL POLE ON THE ASSOCIATED CORNER.
- ALL CABLES MUST SATISFY INSA SPECIFICATION 19-1, AWG #14.
- ALL DETECTORS MUST BE INSTALLED OR CONFIGURED, AND FUNCTIONAL, BEFORE THE DAY OF TURN-ON.
- THE CONTRACTOR SHALL VERIFY ALL TRAFFIC SIGNAL POLE LOCATIONS WITH THE ENGINEER PRIOR TO INSTALLATION.
- SIGNAL HEAD AWING MUST BE AS DIRECTED BY THE CITY OF SAN LUIS SENIOR TRAFFIC TECHNICIAN.
- ALL PARALLEL CONDUITS IN PROXIMITY TO EACH OTHER SHOULD BE INSTALLED IN A JOINT TRENCH OR JOINT BORING/DRILLING OPERATION, INCLUDING INTERCONNECT CONDUITS, WHERE APPLICABLE. (SEE LIGHTING PLANS).
- THE CONTRACTOR SHALL FURNISH AND INSTALL A FULLY FUNCTIONAL VIDEO DETECTION SYSTEM FROM THE CITY OF YUMA'S PRE-APPROVED VENDOR. PROVIDE ALL EQUIPMENT MOUNTING, CABLING, AND CONNECTIONS IN ACCORDANCE WITH THESE PLANS AND THE VENDOR SPECIFICATIONS AND REQUIREMENTS. EQUIPMENT CONFIGURATION SHALL BE COMPLETED BY VENDOR-EMPLOYED REPRESENTATIVE. SEE CITY STANDARD VIDEO DETECTION STD DETAIL NO. 9-150. SYSTEM SHALL BE MIDVISION OR GRIDSMART WITH VIDEO IMAGE VEHICLE TRACKING AND DETECTION SYSTEM (MIVT.D.S.).
- PRIOR TO SUBMITTING A PROPOSAL THE BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH THE CONTRACTOR WILL OPERATE. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONNECTION WITH OR ON BEHALF OF THE CONTRACTOR FOR ANY ERRORS OR NEGLIGENCE BY THE CONTRACTOR.
- PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEER. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL THE ENGINEER RENDERS A DECISION. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR THE DIFFERENCES IN ACTUAL DIMENSIONS INDICATED ON THE DRAWINGS.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH NYLON PULL CORD INSTALLED. THE PULL CORD SHALL BE CONSIDERED AS INCIDENTAL TO THE UNIT PRICE OF THE CONDUIT FURNISHED AND INSTALLED.
- ALL CONDUIT SWEEPS ENTERING TYPE 7 PULL BOXES WITH EXTENSIONS SHALL USE A 30 DEGREE SWEEP WITH A MINIMUM 36" RADIUS.
- THE COST OF ALL CONDUIT STUB-OUTS IS INCIDENTAL TO THE COST OF THE ASSOCIATED PULL BOXES.
- TRAFFIC CONTROL CHANGE AHEAD WARNING SIGNS SHALL BE INSTALLED WHEN TRAFFIC CONTROL PLAN HAS CHANGED AT THE INTERSECTION OF URTUZUASTEGUI STREET AND 2ND AVENUE FOR A MINIMUM OF 60 DAYS FOLLOWING THE TRAFFIC CONTROL CHANGE. THE CONTRACTOR SHALL REMOVE THE TEMPORARY SIGNS WHEN WARNING STAGE IS COMPLETED.
- ALL NEW TRAFFIC SIGNAL SHALL HAVE A 2" REFLECTIVE 3M D03 SHEETING ON 5' WIDE LOUVERED BACKPLATES, PER ASTM TYPE XI.
- THE CONTRACTOR SHALL CONTACT THE CITY OF SAN LUIS PUBLIC WORKS PRIOR TO PLACING MATERIALS ORDERS. ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED BY THE CITY OF SAN LUIS THROUGH THE EQUIPMENT AND MATERIALS SUBMITTAL PROCESS PRIOR TO PLACING ORDERS.

**LEGEND**

EXIST	PROPOSED	
---	---	NEW RIGHT OF WAY
---	---	EXISTING RIGHT OF WAY
---	---	EXISTING EASEMENT
---	---	EXISTING ROADWAY
---	---	PROPOSED TRAFFIC SIGNAL CONDUIT RUN
---	---	EXISTING TRAFFIC SIGNAL CONDUIT RUN
---	---	CONDUIT STUB-OUT
○	○	*7 PULLBOX WITH EXTENSION
○	○	*3/4 PULLBOX
○	○	*5 PULLBOX
□	□	*7 PULLBOX
□	□	CONTROLLER, CABINET W/ FOUNDATION
□	□	SERVICE CABINET W/ FOUNDATION
□	□	BACKUP POWER CABINET
□	□	CONDUIT RUN
⊗	⊗	LUMINAIRE W/PHOTOCELL
⊗	⊗	LUMINAIRE
⊗	⊗	STREET NAME SIGN (SNS)
○	○	PEDESTRIAN PUSHBUTTON
○	○	POLE OR POST AS INDICATED
○	○	POLE ID KEY LETTER
○	○	CONDUIT RUN NUMBER
○	○	PEDESTRIAN SIGNAL
⊕	⊕	VIDEO DETECTION
⊕	⊕	TRAFFIC SIGNAL
⊕	⊕	TRAFFIC SIGNAL WITH TURN ARROW
⊕	⊕	EMERGENCY VEHICLE PRE-EMPT SENSOR
⊕	⊕	EMERGENCY VEHICLE PRE-EMPT BEACON
---	---	GAS LINE
---	---	TELEPHONE LINE
---	---	ELECTRIC LINE
---	---	SEWER LINE
---	---	WATER LINE
---	---	CITY CABLE TV LINE
---	---	FIBER OPTIC LINE

**ABBREVIATIONS**

AVD	ADAPTIVE VIDEO DETECTION	LU	LOOP LEAD-IN
COY	CITY OF YUMA	PED	PEDESTRIAN
EVPD	EMERGENCY VEHICLE PREEMPTION DETECTOR	PEC	PHOTO ELECTRIC CONTROL
EX OR EXST	EXISTING	PPB	PEDESTRIAN PUSH BUTTON
EXT	EXTENSION	PVC	POLYVINYLCHLORIDE
FO	FIBER OPTIC	SCH	SCHEDULE
SNS	STREET NAME SIGN	SIG	SIGNALS
		SL	STREET LIGHT
		SMA	SIGNAL MAST ARM

Know what's below,  
Call before you dig.



<b>PSOMAS</b>		511 S NEWPORT ROAD SAN LUIS, AZ 85352 PH: 928.341.2550	
SCALE: N.T.S.	APPROVED BY:	DRAWN: JV, RC, AP	
DATE: 11/1/23		C.I.P. NO.	
SAN LUIS   LAND PORT OF ENTRY OFFSITE			
TRAFFIC SIGNAL NOTES   22 of 38			





CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT-CONDUCTOR RUN NUMBER	CONDUIT AND CONDUCTOR SCHEDULE																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
CONDUIT SIZE (INCHES)	Exst 2.5	3	3	Exst 3	Exst 2-4	Exst 3	Exst 2-4	Exst 3	Exst 2-4	Exst 3	3	3	2-4	3																			
AWG																																	
CIRCUIT PHASE	NO. OF CABLES																																
	NO. OF CONDUCTORS																																
#14 AWG MSA 19-1 MULTI-CONDUCTOR CABLE	SIGNAL #1																																
	SIGNAL #2																																
	SIGNAL #3																																
	SIGNAL #4																																
	SIGNAL #5																																
	SIGNAL #6																																
	SIGNAL #7																																
	SIGNAL #8																																
	PEDESTRIAN SIGNAL #2 (FUTURE)																																
	PEDESTRIAN SIGNAL #4 (FUTURE)																																
	PEDESTRIAN SIGNAL #6 (FUTURE)																																
	PEDESTRIAN SIGNAL #8 (FUTURE)																																
	PEDESTRIAN P.B. #2 (FUTURE)																																
	PEDESTRIAN P.B. #4 (FUTURE)																																
	PEDESTRIAN P.B. #6 (FUTURE)																																
	PEDESTRIAN P.B. #8 (FUTURE)																																
	PEDESTRIAN P.B. COMMON																																
SIGNAL COMMON JUNE																																	
SPARES																																	
CONDUIT-CONDUCTOR RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
#110 16/1W	EXST STREET LIGHTING CIRCUIT (BLACK)				1	1	1		1	1																							
#9 10/1W	EXST STREET LIGHTING CIRCUIT (RED)				1		1	1																									
#9 10/1W	EXST STREET LIGHTING COMMON (WHITE)				1	1	1	1	1	1																							
#9 10/1W	EXST EQUIPMENT GROUND	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
120/240V	EXST POWER HOT #5 THW (STREET LIGHT)				2																												
120/240V	EXST POWER NEUTRAL #5 THW (STREET LIGHT)				1																												
120/240V	EXST POWER HOT #6 THW (CONTROLLER)				2																												
120/240V	EXST POWER NEUTRAL #6 THW (CONTROLLER)				1																												
120/240V	EXST POWER HOT #3/0 (RED) THW (CONTROLLER)	2	2	2	2								2																				
120/240V	EXST POWER NEUTRAL #3/0 (WHITE) THW (CONTROLLER)	1	1	1	1								1																				
1	PRE-EMPTY BEACON (BLUE)																																
1	PRE-EMPTY BEACON (WHITE)																																
1	PRE-EMPTY SENSOR**				N/W																												
1	PRE-EMPTY SENSOR**				E/W																												
PER ADDOT SOLID 3 COND.	EXST VEHICLE DETECTION				3	1	2	1	1	1																							
2500' MILE TAPE																																	
CONDUIT-CONDUCTOR RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		

CONDUIT AND CONDUCTOR SCHEDULE NOTES

1. THE INSULATED BOND SHALL HAVE THE INSULATION STRIPPED INSIDE THE PULLBOXES.
2. THE MSA 20 CONDUCTOR CABLE SHALL BE #14 AWG MSA 19-1. THE MSA 4 CONDUCTOR AND 7 CONDUCTOR CABLE SHALL BE #14 AWG MSA 19-1.
3. - A CRIMP CONNECTION SHALL BE USED FOR SPLICING IN PULLBOXES
4. Exst - EXISTING CONDUIT
5. - CONDUCTORS BY UTILITY COMPANY, CONDUIT BY CONTRACTOR, DEPTH OF CONDUIT AND RISER SHALL BE PER UTILITY COMPANY REQUIREMENTS.

MSA CABLE, #14 AWG, 20 CONDUCTOR

CABLE #	CONDUCTOR COLOR	SIGNAL INTERVAL	
		BASIC COLOR	TRACER STRIPE
# 1	# 5 DR OVERLAP A	RED	WHITE
	BLACK	WHITE	YELLOW
	GREEN	WHITE	GREEN
# 2	# 6 DR OVERLAP B	RED	---
	BLACK	---	YELLOW
	GREEN	---	GREEN
# 3	# 7 DR OVERLAP C	BLACK	RED
	ORANGE	RED	YELLOW
	BLUE	RED	GREEN
# 4	# 8 DR OVERLAP D	RED	BLACK
	ORANGE	BLACK	YELLOW
	GREEN	BLACK	GREEN
# 2 PED.	# 5 PED.	BLUE	---
	BLACK	---	WALK
	WHITE	BLACK	PUSH BUTTON
# 4 PED.	# 8 PED.	BLUE	---
	RED	GREEN	WALK
	WHITE	RED	PUSH BUTTON
ALL # 5	WHITE	---	P.B. COMMON
	BLUE	BLACK	SPARE

INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE

MSA CABLE 19-1, #14 AWG, 4 CONDUCTOR & 7 CONDUCTOR

SIGNAL HEADS 5-SECTION		SIGNAL HEADS INBOARD & SPERMOUNT	
7-CONDUCTOR CABLE		4-CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	PUSH BUTTON STATION
RED	RED	RED	RED
BLACK	YELLOW	BLACK	YELLOW
GREEN	GREEN	GREEN	GREEN
ORANGE	YELLOW ARROW	WHITE	VER. COM.
BLUE	GREEN ARROW		
WHITE	VER. COM.		
WHIT/BLK TR	VER. COM.		

THIS CABLE SHALL BE TAGGED AS TO THE ASSIGNED PHASE

SHEET NOTES

LEGEND

Know what's below. Call before you dig.



**PSOMAS** 2117 S. MEMPHIS ROAD, SUITE 400, SAN LUIS, MO 64520, 314.297.2200

SCALE: N.T.S. APPROVED BY: DRAWN: J.V. RC. AP  
 DATE: 11/1/23 G.I.P. NO.  
 SAN LUIS I LAND PORT OF ENTRY OFFSITE  
 TRAFFIC SIGNAL CONDUCTOR SCHEDULE 25 OF 38





CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT-CONDUCTOR RUN NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
CONDUIT SIZE (INCHES)		2.5	3	3	2-4	3	2-4	3	3	Exst 2-4	3	Exst 2-4	3	Exst 2-4	3	Exst 2-4	3	Exst 2-4	3	2.5												
#14 AWG MSA 19-1 MULTI-CONDUCTOR CABLE	CIRCUIT PHASE																															
	SIGNAL #1																															
	SIGNAL #2																															
	SIGNAL #3																															
	SIGNAL #4																															
	SIGNAL #5																															
	SIGNAL #6																															
	PEDESTRIAN SIGNAL #2 (FUTURE)																															
	PEDESTRIAN SIGNAL #4 (FUTURE)																															
	PEDESTRIAN SIGNAL #6 (FUTURE)																															
	PEDESTRIAN P.B. #2 (FUTURE)																															
	PEDESTRIAN P.B. #4 (FUTURE)																															
	PEDESTRIAN P.B. #6 (FUTURE)																															
	PEDESTRIAN P.B. COMMON																															
SIGNAL COMMON																																
SPARES																																
CONDUIT-CONDUCTOR RUN NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
#110 2091W	STREET LIGHTING CIRCUIT (BLACK)																															
	STREET LIGHTING CIRCUIT (RED)																															
#8 2094W	STREET LIGHTING COMMON (WHITE)																															
#5 2092	EQUIPMENT GROUND																															
120/240V	POWER HOT #5 THW (STREET LIGHT)																															
	POWER NEUTRAL #6 THW (STREET LIGHT)																															
120/240V	POWER HOT #5 THW (CONTROLLER)																															
	POWER NEUTRAL #6 THW (CONTROLLER)																															
120/240V	POWER HOT #3/0 (RED) THW (CONTROLLER)																															
	POWER NEUTRAL #3/0 (WHITE) THW (CONTROLLER)																															
	PRE-EMPTY BEACON (BLUE)																															
	PRE-EMPTY BEACON (WHITE)																															
GPS CABLE MODEL #1070	OPTICOM GPS RADIO UNIT MODEL #3100																															
SHIELDED CAT5E ETHERNET CABLE	VEHICLE DETECTOR																															
	2500# MULE TAPE																															
CONDUIT-CONDUCTOR RUN NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	

CONDUIT AND CONDUCTOR SCHEDULE NOTES

1. THE INSULATED BOND SHALL HAVE THE INSULATION STRIPPED INSIDE THE PULLBOXES.
2. THE MSA 20 CONDUCTOR CABLE SHALL BE #14 AWG MSA 19-1. THE MSA 4 CONDUCTOR AND 7 CONDUCTOR CABLE SHALL BE #14 AWG MSA 19-1.
3. - A CRIMP CONNECTION SHALL BE USED FOR SPLICING IN PULLBOXES.
4. *Exst* - EXISTING CONDUIT.
5. - CONDUCTORS BY UTILITY COMPANY, CONDUIT BY CONTRACTOR, DEPTH OF CONDUIT AND RISER SHALL BE PER UTILITY COMPANY REQUIREMENTS.

MSA CABLE, #14 AWG, 20 CONDUCTOR

CABLE #	CONDUCTOR COLOR	SIGNAL INTERVAL	
		BASIC COLOR	TRACER STRIPE
# 1 OR OVERLAP A	RED	WHITE	RED
	BLACK	WHITE	YELLOW
	GREEN	WHITE	GREEN
# 2 OR OVERLAP B	RED	--	RED
	BLUE	--	YELLOW
	GREEN	--	GREEN
# 3 OR OVERLAP C	BLACK	RED	RED
	ORANGE	RED	YELLOW
	BLUE	RED	GREEN
# 4 OR OVERLAP D	RED	BLACK	RED
	ORANGE	BLACK	YELLOW
	GREEN	BLACK	GREEN
# 2 PED.	BLACK	--	DONT WALK
	WHITE	BLACK	PUSH BUTTON
	BLUE	WHITE	WALK
# 4 PED.	RED	GREEN	DONT WALK
	WHITE	RED	PUSH BUTTON
	BLUE	--	P.B. COMMON
ALL P.S.	BLUE	BLACK	SPARE

INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE

MSA CABLE 19-1, #14 AWG, 4 CONDUCTOR

SIGNAL HEADS INBOARD & STATIONOUNT

4-CONDUCTOR CABLE	
BASIC COLOR	PUSH BUTTON STATION
RED	RED
BLACK	YELLOW
GREEN	GREEN
WHITE	VEH. COM.

THE CABLES SHALL BE TAGGED AS TO THE ASSIGNED PHASE

PEDESTRIAN HEADS		PUSH BUTTON	
4-CONDUCTOR CABLE		4-CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	SIGNAL INTERVAL
RED	DONT WALK	RED	PUSH BUTTON
GREEN	WALK	WHITE	P.B. COM.
WHITE	VEH. COM.	GREEN	SPARE
BLACK	SPARE	BLACK	SPARE

THE CABLES SHALL BE TAGGED AS TO THE ASSIGNED PHASE

MSA CABLE 19-1, #14 AWG ON-SITE PRE-EMPTION

4-CONDUCTOR CABLE	
BASIC COLOR	PUSH BUTTON STATION
RED	VEH. COM.
WHITE	NEUTRAL
GREEN	GROUND
BLACK	SPARE

THE CABLES SHALL BE TAGGED EITHER PHASE 9 OR OVERLAP PHASE B. SEE NOTE 1

SHEET NOTES

1. ON-SITE PRE-EMPTION VIA 4CC TO BE DESIGNATED AS PHASE 9 OR PHASE 6 OVERLAP FOR NB GREEN AND SET WITH MAX. GREEN TIME OF 160 SEC. OR OTHER TIME, AS APPROVED BY THE ENGINEER.

LEGEND

Know what's below, Call before you dig.



**P-S-O-M-A-S** 325 E. WASHINGTON ROAD, SUITE 200, SACRAMENTO, CA 95833 (916) 486-7700

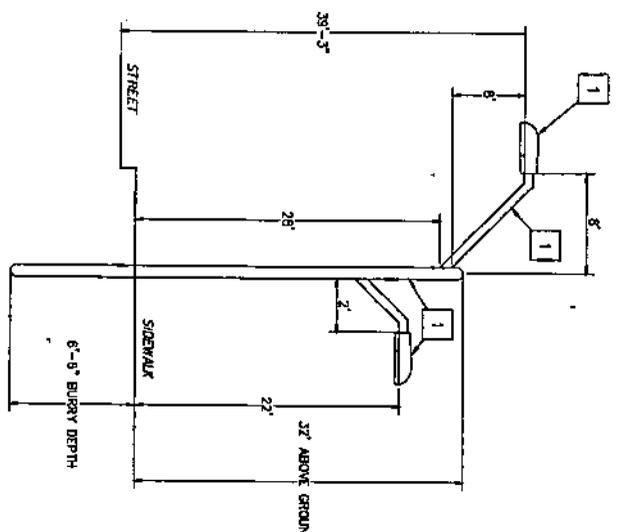
SCALE: N.T.S. APPROVED BY: DATE: 1/1/23

DRAWN BY: R.C. AP G.I.P. NO. 17170

SAN LUIS I LAND PORT OF ENTRY OFFSITE TRAFFIC SIGNAL CONDUCTOR SCHEDULE 28 OF 38

**LEGEND**

- EXIST PROPOSED**
- 1/4" — LUMINAIRE, MAST ARMS, POLE & POLE BASE
  - 1/2" — 3/4" PULLBOX WITH EXTENSION
  - 1/2" — 1/2" PULLBOX
  - 1/2" — 5" PULLBOX
  - 1/2" — 7" PULLBOX
  - 1/2" — LOAD CENTER CABINET
  - 1/2" — METER PEDestal
  - 1/2" — CONDUIT RUN
  - 1/2" — LUMINAIRE W/PHOTOCELL
  - 1/2" — LUMINAIRE
  - 1/2" — STREET MAKE SKW (SMS)
  - 1/2" — POLE ID KEY LETTER
  - 1/2" — CONDUIT RUN NUMBER
  - 1/2" — CONSTRUCTION KEY NOTE
  - 1/2" — GAS LINE
  - 1/2" — TELEPHONE LINE
  - 1/2" — ELECTRIC LINE
  - 1/2" — SEWER LINE
  - 1/2" — WATER LINE
  - 1/2" — CABLE TV LINE
  - 1/2" — FIBER OPTIC LINE



**1A COMBINATION POLE DETAIL - APS POLE CODE 1944.38**

**REMARKS: THIS SHEET**  
**1 REFER TO POLE SCHEDULE, LIGHTING MODIFICATION PLAN**

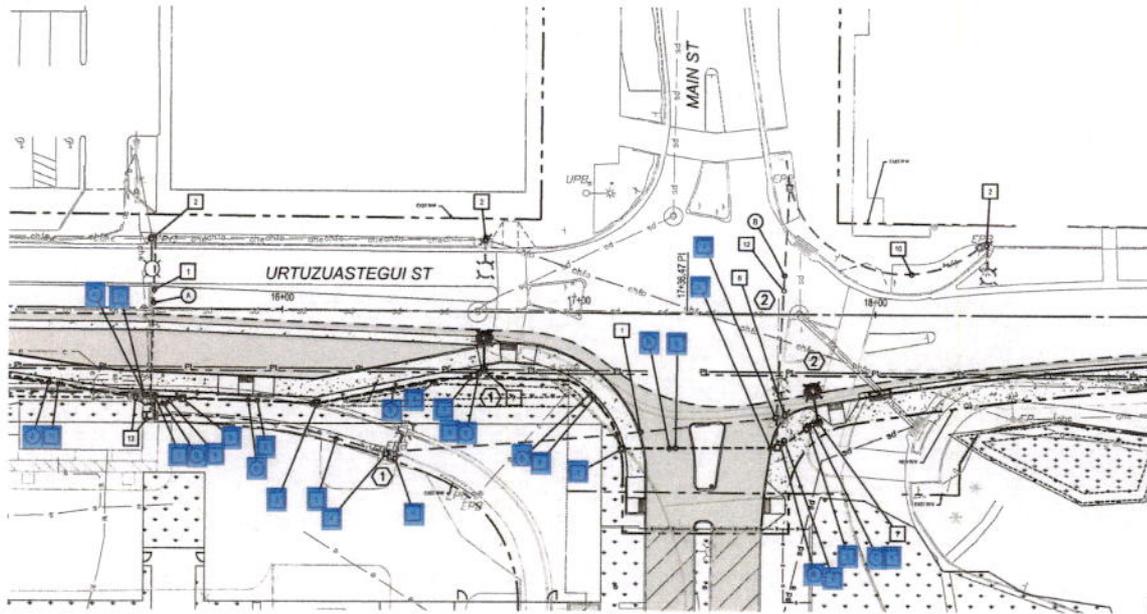
**SHEET LIGHTING GENERAL NOTES:**

1. ALL LIGHTING AND RELATED CONDUIT/WIRE WORK SHALL CONFORM UNLESS NOTED OTHERWISE TO THE 2002 EDITION OF THE ADOPT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE CURRENT STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND LIGHTING ALONG WITH ANY SUBSEQUENT AMENDMENTS PRIOR TO BID DATE FOR HIGHWAY LIGHTING.
2. EXISTING CONDUIT RUNS ARE DISAPPEARANT AND ARE BASED SOLELY ON EXISTING AS-BUILT PLANS. EXACT LOCATION OF CONDUIT RUNS AND PULL BOX LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO ANY EXCAVATION OR REMOVAL WORK.
3. POLE OFFSET SHALL BE MEASURED FROM CONSTRUCTION CENTERLINE INDICATED TO THE CENTER OF POLE AS INDICATED ON POLE SCHEDULE. REFER TO LIGHTING PLAN SHEETS FOR ADDITIONAL INFORMATION.
4. ALL EXISTING EQUIPMENT AND LIGHTING SYSTEMS SHALL REMAIN IN OPERATION UNLESS OTHERWISE NOTED. COORDINATE AND RECEIVE APPROVAL OF ANY DAMAGES FROM ENGINEER.
5. CONTRACTOR IS TO NOTIFY ENGINEER IN WRITING WHEN FIELD ADJUSTMENT OF PILES IS NECESSARY TO AVOID CONTACT WITH UTILITIES OR CONSTRUCTION. STATE NEW LOCATION OF PILES FOR REVIEW BY ENGINEER PRIOR TO ANY WORK.
6. CONTRACTOR IS RESPONSIBLE FOR LOCATION ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND SHALL PROTECT THEM FROM DAMAGE. CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT IN CONDUCTION WITH EXCEPTION OF THIS CONTRACT.
7. WHERE INDICATED ON THE PLANS, REMOVE EXISTING FOUNDATION PER SPECIAL PROVISIONS. PILES AND HARDWARE SHALL BE CLEANED AND DELIVERED TO APS, OR CITY OF SAN LUIS AS INDICATED ON THE PLANS.
8. DIRECT BURIED PILES SHALL BE SET IN AN ADJURED HOLE IN UNDISTURBED EARTH. POLE SHALL BE SET PLUMB IN TWO DIRECTIONS 90 DEGREES APART. BACKFILL SHALL BE IN ACCORDANCE WITH ADOPT 2002 STANDARD SPECIFICATIONS, SUBSECTION 203-5.03D.
9. EXISTING APS POWER SOURCE SHALL REMAIN IN PLACE AND FULL OPERATIONAL THROUGHOUT THE CONSTRUCTION PERIOD UNLESS OTHERWISE NOTED.
10. CONTRACTOR SHALL RECONNECT AND RECONNECT ALL ELECTRICAL EQUIPMENT CIRCUITS, ETC., NOT INDICATED TO BE REMOVED WHICH MAY BECOME SEVERED FROM IT NORMAL POWER SUPPLY.
11. DIRECT BURR POLE BURR DEPTH SHALL BE IN ACCORDANCE WITH APS REQUIREMENTS.
12. CONTRACTOR SHALL CONTACT JOHN P. WATSON OF APS AT (508) 336-8820 A MINIMUM OF 10 DAYS BEFORE ANY SERVICE WORK IS REQUIRED.
13. CONTRACTOR SHALL REFER TO STORM DRAIN PLAN SHEETS FOR COORDINATION OF CONDUIT INSTALLATIONS ROUTED ADJACENT TO AND OVER EXISTING OR NEW CATCH BASIN AREAS.
14. EACH LUMINAIRE SHALL BE INDIVIDUALLY PROTECTED BY FUSE.
15. ORIENT POLE BASE TO REMAIN SUCH THAT THE LUMINAIRES ARE 90 DEGREES TO THE DIRECTION OF TRAVEL.
16. CONTRACTOR TO REPLACE AND BURNED-OUT LAMPS OF NEW EQUIPMENT AT ANY TIME DURING THE CONSTRUCTION PERIOD UP TO FINAL ACCEPTANCE OF THE PROJECT BY THE CITY OF SAN LUIS. COST FOR MATERIAL AND LABOR TO BE INCLUDED AS PART OF MAINTAIN EXISTING HIGHWAY LIGHTING AND TRAFFIC SIGNALS.
17. CONTRACTOR TO FURNISH AND INSTALL A LOCATOR BALL IN THE CONDUIT TRENCH ADJACENT TO PULL BOXES. PULL BOX COVERS TO BE BURNED 12 INCHES BELOW GRADE. TYPICAL UNIT IS 3/4-INCH DIAMETER POWER LOCATOR BALLS TO BE INCLUDED IN PULL BOX PRICES.
18. CONTRACTOR TO FURNISH AND INSTALL A LOCATOR BALL IN THE CONDUIT TRENCH ADJACENT TO PULL BOXES. PULL BOX COVERS TO BE BURNED 12 INCHES BELOW GRADE. TYPICAL UNIT IS 3/4-INCH DIAMETER POWER LOCATOR BALLS TO BE INCLUDED IN PULL BOX PRICES.
19. CONTRACTOR TO PROVIDE CONDUIT TRENCH, 1 INCH AND 2 1/2 INCH CONDUIT AND INSTALL 2500 LB. RATED HOLE TAPE IN CONDUIT. CLOSE TRENCH AFTER CONDUIT/PULL BOX SYSTEM HAS BEEN INSPECTED AND APPROVED BY APS.
20. APS TO SUPPLY PULL BOXES (4 BOXES) AND INSTALL LIGHTING CONDUCTIONS IN CONDUIT, PULL BOX TO PULL BOX, AND IN LIGHT POLES TO LUMINAIRE ALONG WITH THE NECESSARY FUSES FOR THE ROADWAY STREETLIGHT AND PEDESTRIAN LIGHT, APS TO SUPPLY AND INSTALL LIGHT POLES.
21. CONTRACTOR TO INSTALL APS FURNISHED GROUND RODS IN EACH APS FURNISHED PULL BOX. GROUND THE PULL BOXES PER APS REQUIREMENTS. GROUND RODS TO BE INCLUDED AS PART OF PULL BOX INSTALLATION.

**PSOMAS**  
 SCALE: N.T.S.  
 DATE: 11/17/23  
 SAN LUIS I LAND PORT OF ENTRY OFFSITE  
 LIGHTING NOTES  
 28 OF 38



See notes below.  
 Callahan you @p



**SHEET NOTES**

**KEYNOTES: THIS SHEET**

- 1 EXISTING ELECTRIC SERVICE CONDUIT RUN NO. 1 FROM APS CONNECTION POINT, 2 1/2 INCH CONDUIT, 3 #30 WIRES TO REMAIN.
- 2 EXISTING LIGHT AND POLE TO REMAIN.
- 3 EXISTING NO. 5 PULL BOX TO BE RESET.
- 4 EXISTING NO. 5 PULL BOX TO BE REMOVED. NEW 2 1/2 INCH CONDUIT TO CONNECT TO EXISTING CONDUIT.
- 5 NEW NO. 5 PULL BOX TO BE INSTALLED.
- 6 EXISTING DIRECT BURY APS ARCHITECTURAL LIGHT POLE TO BE REMOVED.
- 7 NEW DIRECT BURY APS ARCHITECTURAL LIGHT POLE TO BE INSTALLED.
- 8 NEW 2 1/2 INCH CONDUIT INSTALLED BY CONTRACTOR 2 #10 ALUMINUM + GROUND INSTALLED BY APS.
- 9 NEW 2 INCH CONDUIT WITH 2 #10 ALUMINUM + #10 GROUND FROM PULL BOX TO POLE. WIRES CONTINUE TO BALLAST AND INSTALLED BY CONTRACTOR.
- 10 EXISTING CONDUIT AND CONDUCTORS TO REMAIN IN PLACE.
- 11 NEW 2 1/2 IN CONDUIT INSTALLED BY CONTRACTOR, 3 #30 WIRES TO RELOCATED SERVICE METER PEDESTAL BY APS.
- 12 EXISTING CONDUIT TO REMAIN IN PLACE. APS TO INSTALL NEW CONDUCTORS BETWEEN PULL BOXES
- 13 SEE TRAFFIC SIGNAL PLANS FOR NOTES ON RELOCATED SERVICE METER PEDESTAL



**POLE SCHEDULE - STREET LIGHTING SYSTEM**

ADOT NUMBER	LOAD CENTER	CIRCUIT NUMBER	POLE NO.	CONSTRUCTION CENTERLINE	STATION NO.	OFFSET FROM CENTERLINE	POLE HEIGHT	LAMP	LAMP QUANTITY	POLE TYPE	MAST ARM	LUMINAIRE ORIENTATION	REMARKS	NOTES
	EXISTING		1	Urtzuastegui Street	16+64.3	18.4' RT	32 FT	160 / 25	2	APS 1944	8 FT HI-RISE 2' MID-POLE	STREET / SW	APS SUPPLIED	1, 2, 3, 4, 5
	EXISTING		2	Urtzuastegui Street	17+81.0	37.4' RT	32 FT	160 / 25	2	APS 1944	8 FT HI-RISE 2' MID-POLE	STREET / SW	APS SUPPLIED	1, 2, 3, 4, 5

**LEGEND**

- CONCRETE PAVEMENT PER PAVING PLAN, SHEETS CH121-SP THROUGH CH125-S, CONCRETE SIDEWALK PER COY NO. 3-135.
  - AG PAVEMENT PER PAVING PLAN, SHEETS CH121-SP THROUGH CH125-SP
  - FOG SEAL EXISTING PAVEMENT.
  - UTILITY EASEMENT LINE
  - PROPERTY LINE
- Know what's below.  
Call before you dig.



**CONDUIT AND CONDUCTOR SCHEDULE**

AWG	CONDUIT SIZE IN INCHES	CONDUIT RUN LETTER					
		A	B	C	D	E	F
#3/0	ALUMINUM - BY APS	3					
#1/0	ALUMINUM - BY APS		2				
#8 GND		1	1				
#10	COPPER, BLACK			4			
#10 GND	COPPER, BARE			1			
Notes:			2	3			

**CONDUIT AND CONDUCTOR SCHEDULE NOTES**

- 1. All conduit is new and supplied and installed by the contractor.
- 2. Conductors supplied and installed by APS.
- 3. Wires to the light fixtures installed by APS.

**POLE SCHEDULE NOTES**

- 1. New poles supplied and installed by APS.
- 2. 8 foot mast arm faces street side full cut-off.
- 3. 2 foot mast arm faces sidewalk side full cut-off.
- 4. APS Light Code CL54, 160 W LED, Type II Distribution for street.
- 5. APS Light Code CL50, 25 W LED, Type II Distribution 3000K, 3,400 Initial Lumens for sidewalk.



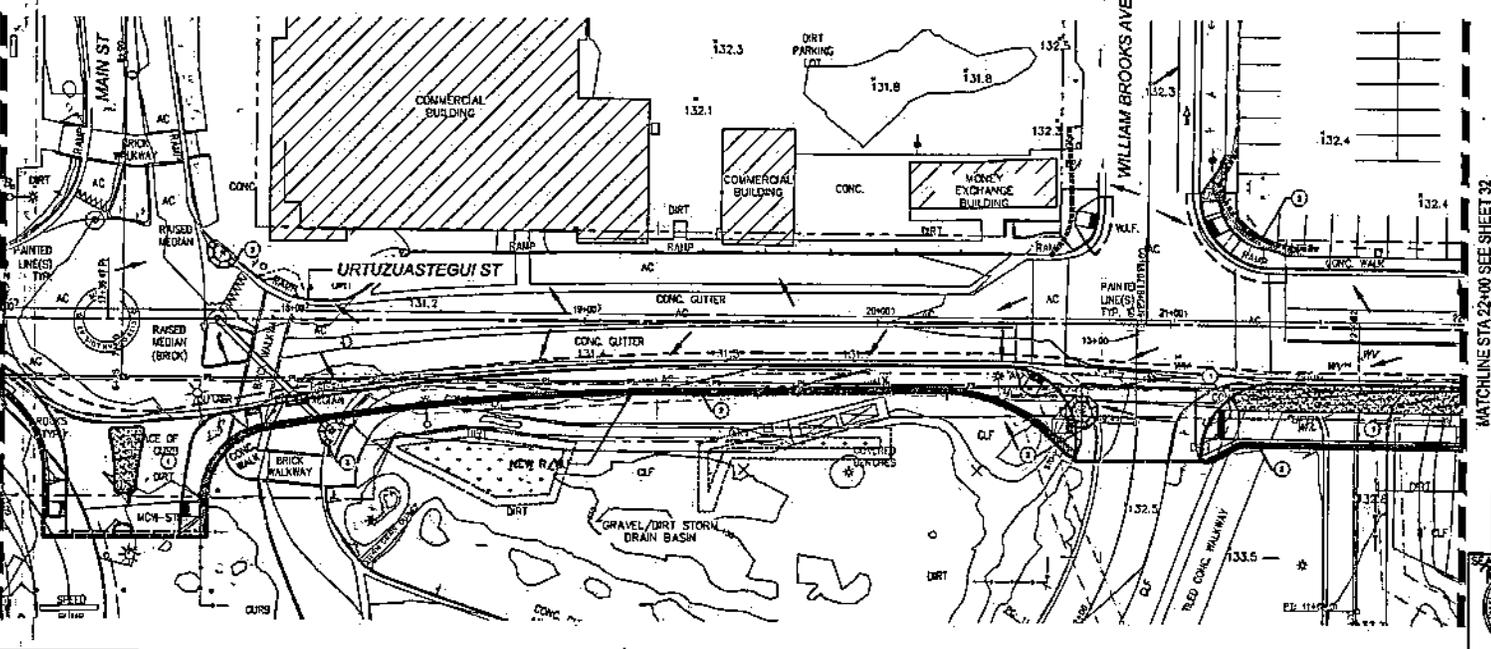
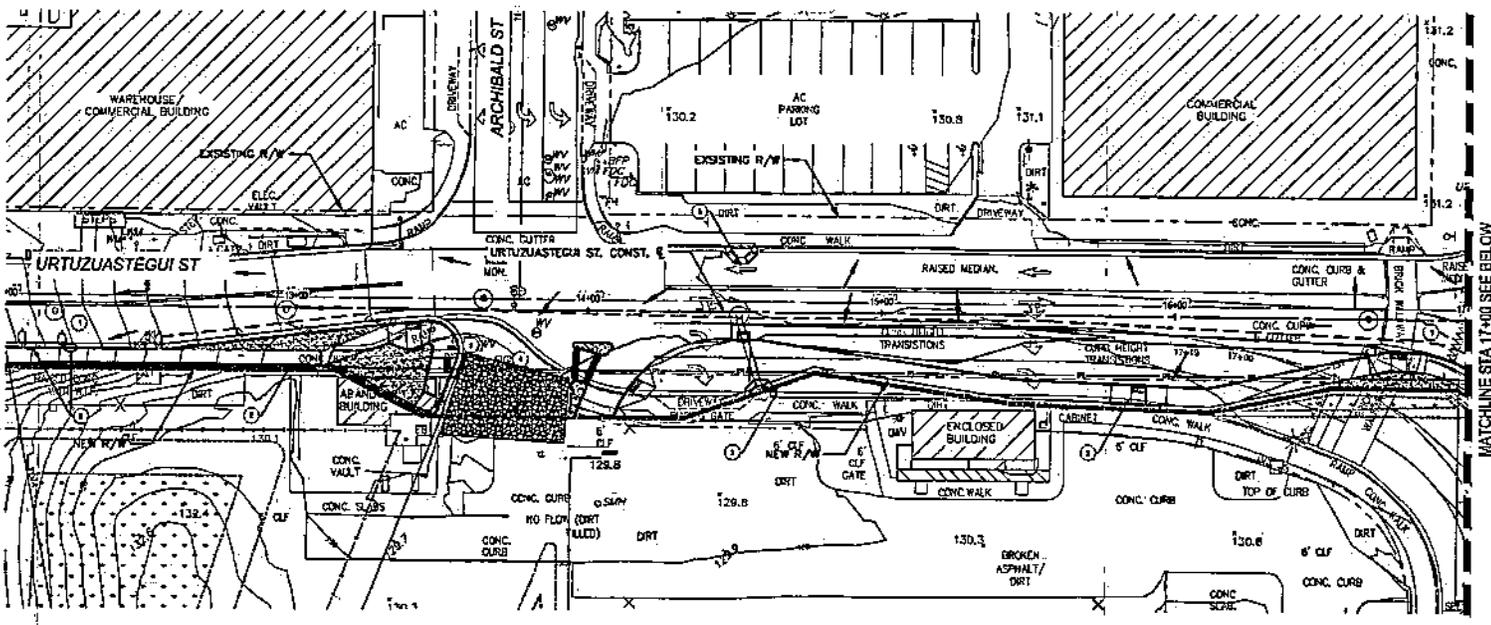
**PSOMAS** 333 E. NEWPORT ROAD, SUITE 400, TUCSON, AZ 85705, 520.292.2300

SCALE: 1" = 20'

APPROVED BY: DATE: 11/1/23

DRAWN: J.V. RC, AP C.I.P. NO.

SAN LUIS LAND PORT OF ENTRY OFFSITE LIGHTING MODIFICATION PLAN 30 OF 38

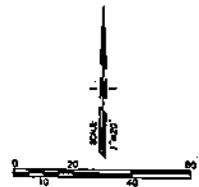


**SHEET NOTES**

- ① SWEEP STREETS ONLY AT POINTS OF INGRESS AND EGRESS ACROSS PROJECT EXTENTS
  - ② INSTALL FIBER ROLL BARRIER
  - ③ INSTALL BASIN AND STEEL GRATE PROTECTION
  - ④ INSTALL CONSTRUCTION TRACK-OUT CONTROLS (STABILIZED CONSTRUCTION ENTRANCE)
  - ⑤ INSTALL SANDBAG CHECK DAMS
1. REFER TO THE LATEST EDITION OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) BEST MANAGEMENT PRACTICE FOR THE SWP OUTLINED ON THIS PLAN.
  2. INSTALL INLET PROTECTION ON ALL EXISTING INLETS PRIOR TO DEMOLITION.
  3. THE LOCATION AND PROTECTION OF ALL UTILITIES IS RESPONSIBILITY OF THE CONTRACTOR.
  4. DISTURBANCE LIMIT IS APPROX. 1 ACRE
  5. IMPROVEMENTS SOUTH OF RIGHT OF WAY ARE PER SEPARATE ONSITE PLANS.

MATCHLINE STA 17+00 SEE BELOW

MATCHLINE STA 22+00 SEE SHEET 32



**LEGEND**

- SLOPE ARROW
- 600 NEW CONTOUR
- 500 EXISTING CONTOUR
- EXISTING NEW R/W
- OFFSITE EROSION CONTROL LIMIT
- FIBER ROLL BARRIER
- INLET PROTECTION
- CONSTRUCTION TRACK-OUT CONTROLS



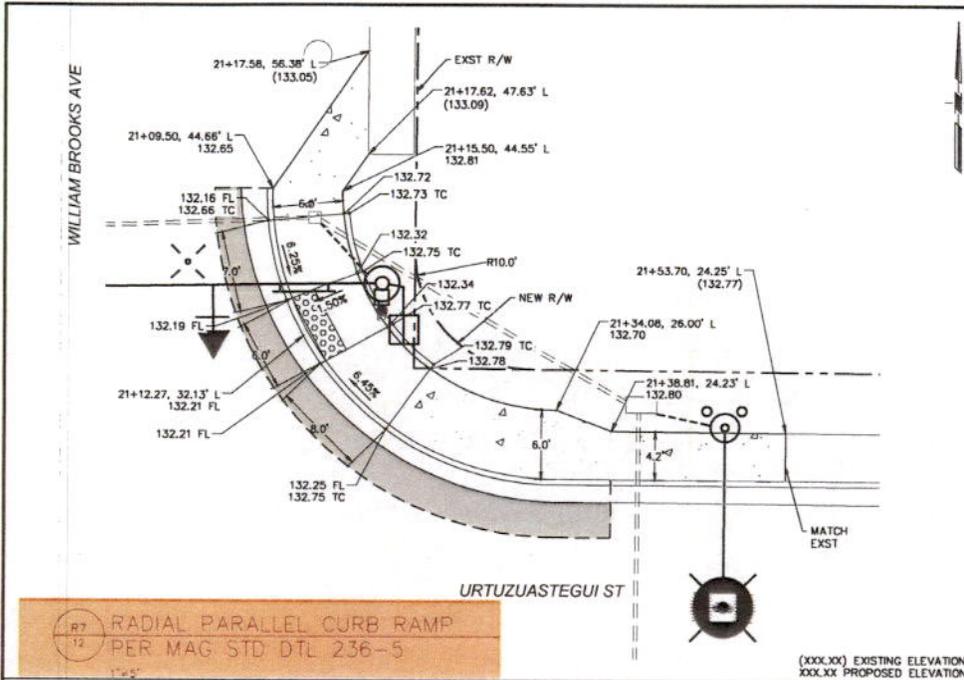
**PSOMAS** 2515 S. GARDNER ROAD, SUITE 400, SAN ANTONIO, TX 78204  
 SCALE: 1" = 20' APPROVED BY: DRAWN BY: J.C. RC. AP  
 DATE: 11/1/23 CLIP NO.  
 SAN LUIS I LAND PORT OF ENTRY OFFSITE  
 EROSION CONTROL PLAN | 31 OF 38

MATCHLINE STA 17+00 SEE ABOVE



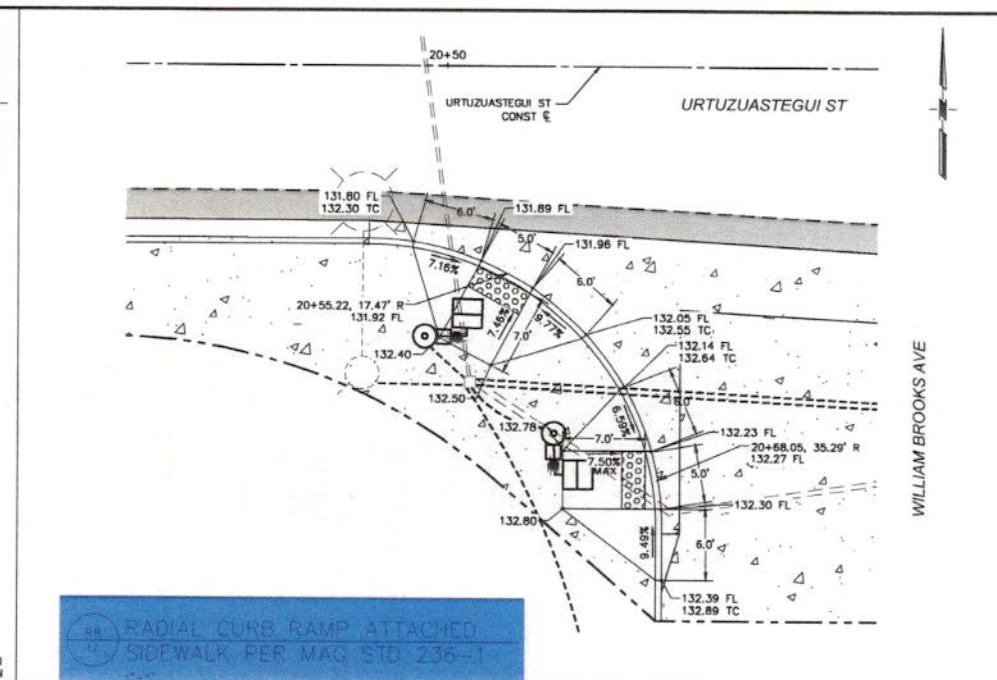




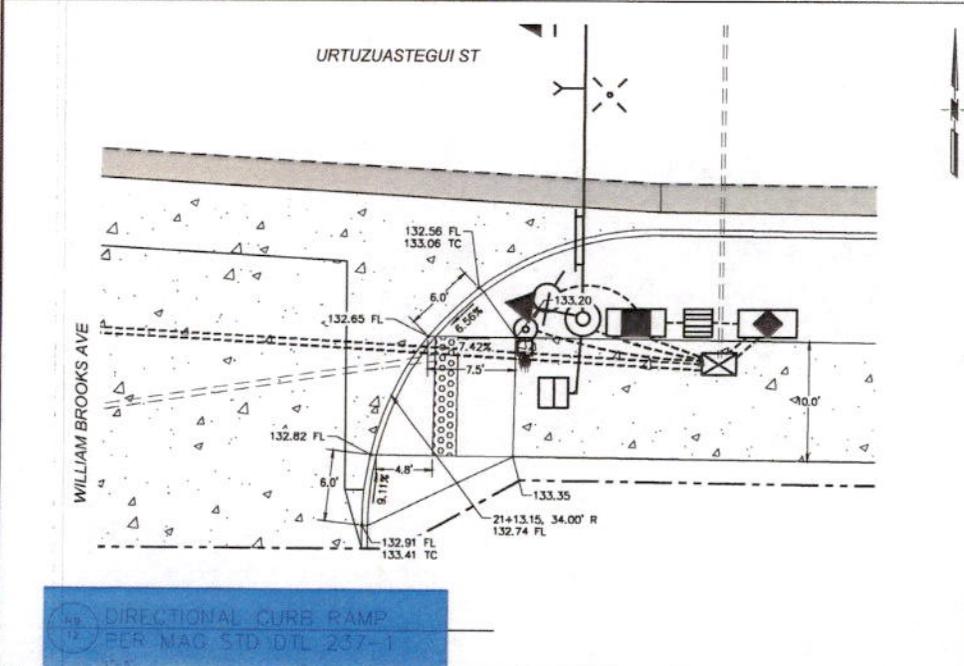


**R7**  
**RADIAL PARALLEL CURB RAMP**  
**PER MAG STD DTL 236-5**  
1"=5'

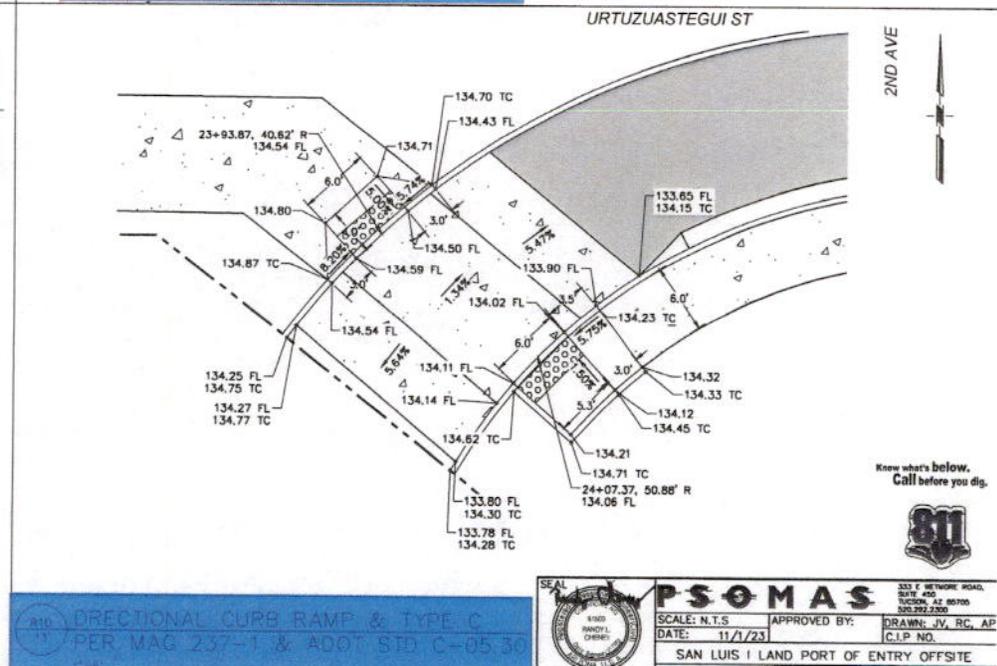
(XXX.XX) EXISTING ELEVATION  
XXX.XX PROPOSED ELEVATION



**R8**  
**RADIAL CURB RAMP ATTACHED**  
**SIDEWALK PER MAG STD 236-1**  
1"=5'



**R9**  
**DIRECTIONAL CURB RAMP**  
**PER MAG STD DTL 237-1**  
1"=5'



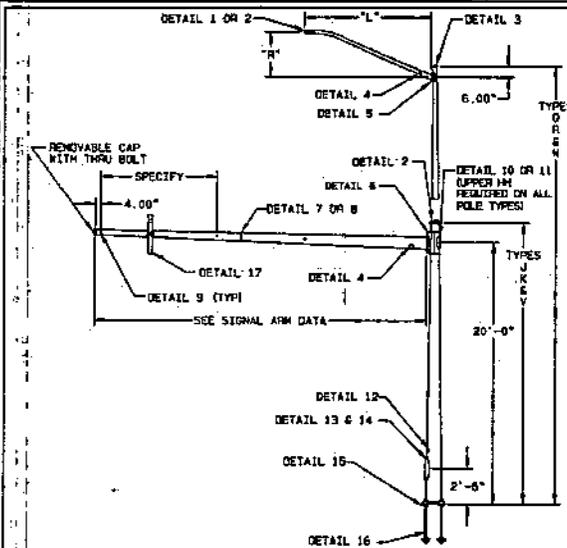
**R10**  
**DIRECTIONAL CURB RAMP & TYPE C**  
**PER MAG 237-1 & ADD'L STD C-05 30**  
1"=5'

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	<b>PSOMAS</b>		333 F NETWORK ROAD, SUITE 400 TUCSON, AZ 85710 520.792.2300
	SCALE: N.T.S.	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 11/1/23		C.I.P. NO.	
SAN LUIS I LAND PORT OF ENTRY OFFSITE			
DETAILS			35 OF 38

PSOMAS - 10/27/2023 10:28:55 AM 11:30:00 - 8/27/2023 8:01:48 PM 11:30:00 - San Luis I Land Port of Entry Offsite - San Luis I Land Port of Entry Offsite - San Luis I Land Port of Entry Offsite - San Luis I Land Port of Entry Offsite - San Luis I Land Port of Entry Offsite



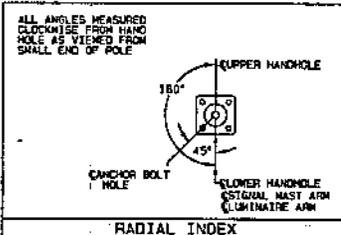
THE MAST ARM TRAFFIC STRUCTURES SHOWN ON THIS DRAWING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE LOADINGS AND THE ALLOWABLE STRESS REQUIREMENTS OF THE 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, SIXTH EDITION, 1.15-6. THE WIND LOADS WERE CALCULATED FROM A BASIC WIND VELOCITY OF 90 MPH WITH A RECURRENCE INTERVAL OF 50 YEARS, AND A FATIGUE CATEGORY OF 2. THE FATIGUE LOADS WERE CALCULATED ON THE REQUIREMENTS OF SECTION 11 OF THE CODE, AND THE FOLLOWING DESIGN CONDITIONS:

- STRUCTURES ARE DESIGNED TO RESIST NATURAL WIND GUSTS BASED ON THE YEARLY MEAN WIND VELOCITY OF 11.2 MPH.
- STRUCTURES ARE NOT DESIGNED TO RESIST GALLOPING-INDUCED CYCLIC LOADS.
- STRUCTURES ARE DESIGNED FOR TRUCK-INDUCED GUST LOADS, AS REQUIRED BY THE OWNER OF THE STRUCTURES.
- THE WIND LOADS WERE CALCULATED FROM A BASIC WIND VELOCITY OF 90 MPH WITH A RECURRENCE INTERVAL OF 50 YEARS. DESIGN BASED ON FATIGUE CATEGORY 1 WITHOUT VIBRATION MITIGATION DEVICE OR FATIGUE CATEGORY 2 WITH INDEPENDENTLY TESTED VIBRATION MITIGATION DEVICE THAT IS GREATER THAN 65% EFFECTIVE OVER ENTIRE RANGE OF STRUCTURES.
- THE VIBRATION MITIGATION DEVICE SHALL BE AN ACTIVE, NON-ABSORBANTIC VIBRATION DAMPER SYSTEM TO EFFECTIVELY MITIGATE THE VERTICAL MOVEMENT UNDER FATIGUE LOADS. THE POLE MANUFACTURER WILL BE REQUIRED TO SUBMIT ALL THE NECESSARY DOCUMENTATION AND INDEPENDENT THIRD PARTY TESTING OF THE DEVICE TO PROVE THE DEVICE EFFECTIVENESS. THE DEVICE SHOULD BE ROBUST TO DAMPENING LARGE DISPLACEMENTS AND SMALL DISPLACEMENTS AND BE SELF-ADAPTING, NOT REQUIRE STRUCTURE-SPECIFIC TUNING. THE MITIGATION DEVICE SHALL BE TESTED TO WITHSTAND OVER 17 MILLION LARGE AMPLITUDE CYCLES WITH NO DETERIORATION OF THE DAMPENING PERFORMANCE

AASHTO 2013 SPECIFICATIONS

**MATERIAL DATA**

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
TAPERED TUBES	A595 GR. A OR A572	55
BASE PLATE	A36	36
ARM SINKER PLATES	A36	36
SIGNAL ARM CONNECTING BOLTS	F3125 GR. A328	
LUMINAIRE ARM CONNECTING BOLTS	F3125 GR. A328	
ANCHOR BOLTS	F1554 GR. 55	55
ANCHOR BOLT NUTS	A563 GR. 0H	
ANCHOR BOLT WASHERS	F436	
GALVANIZING-HARDWARE	F2329	



**SIGNAL ARM DATA**

TYPE	QTY.	ARM SPAN *L* (FT)	LARGE END DIA. (IN)	SMALL END DIA. (IN)	SHAPE OR THICK (IN)	SECTION LENGTH (FT)	ARM PLATE CENTER HOLE (IN)
J C D	20	9.00	6.20	7	20	7.00	
	25	9.00	5.50	7	25	7.00	
	30	10.00	5.50	7	30	7.00	
	35	10.50	5.50	7	35	8.00	
K G R	40	11.00	5.40	7	40	8.00	
	45	12.50	6.20	5	45	8.00	
	50	12.50	5.50	5	50	8.00	
V G W	60	12.50	6.62	3	42.00	7.00	
		6.50	4.67	7	13.00		
	65	13.50	10.79	0.250	19.35	7.00	
		11.50	5.45	7	43.24		
		13.50	10.79	0.250	19.35	7.00	
		11.50	4.75	7	48.25		

**POLE, BASE PLATE, ANCHOR BOLT DATA**

QTY.	POLE TYPE	POLE TUBE				POLE BASE					ANCHOR BOLT		
		LENGTH (FT)	BASE DIA. (IN)	TOP DIA. (IN)	WALL GA/THK	SQUARE 18" (IN)	BOLT CIRCLE "C" (IN)	CENTER HOLE DIA. (IN)	THK. "D" (IN)	SLOT/HOLE SIZE "E" (IN)	DIA. (IN)	LENGTH (IN)	PLATE SIZE "G" X "H" X "I" (IN)
	J	21.25	15.50	12.53	0.250	22.00	21.00	10.00	2.00	2.25 X 2.75	2.00	70.00	1.50 X 5.50 X 5.50
	K	21.25	15.50	12.53	0.250	22.00	21.00	10.00	2.00	2.25 X 2.75	2.00	70.00	1.50 X 5.50 X 5.50
	G	30.00	15.50	11.30	0.250	22.00	21.00	10.00	2.00	2.25 X 2.75	2.00	70.00	1.50 X 5.50 X 5.50
	R	30.00	15.50	11.30	0.250	22.00	21.00	10.00	2.00	2.25 X 2.75	2.00	70.00	1.50 X 5.50 X 5.50
	V	21.25	16.00	13.03	0.250	23.00	22.00	11.50	2.00	2.25	2.00	70.00	1.50 X 5.50 X 5.50
	W	30.00	16.00	11.80	0.250	23.00	22.00	11.50	2.00	2.25	2.00	70.00	1.50 X 5.50 X 5.50

**LUMINAIRE ARM DATA**

QTY.	ARM SPAN *L* (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE	RISE *R* (FT)
	6.00	3.31	2.40	11	2.00
	8.00	3.51	2.40	11	2.50
	10.00	3.93	2.40	11	3.33
	12.00	4.23	2.40	11	4.25
	15.00	4.85	2.40	11	4.75
	18.00	5.10	2.40	11	5.75
	20.00	5.90	3.00	7	5.75



Digitally signed by Stephen R. Osborn  
Date: 2023-05-09 16:17:05-00

REV	DATE	BY	DESCRIPTION
RBC2	05/09/23	RBC2	05/02/23

TITLE: CITY OF GOODYEAR  
TYPE J, K, G, R, V & W POLES  
TRAFFIC SIGNAL STRUCTURES

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANDLING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.

**valmont**  
Valley, NE 68064  
(402) 399-2201

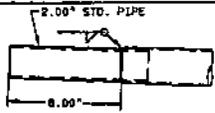
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DRAWING NUMBER DB01403

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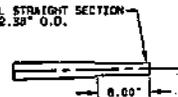
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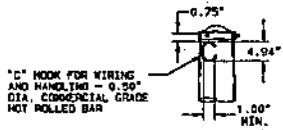
**PSOMAS**  
SAN LUIS I LAND PORT OF ENTRY OFFSITE  
DETAILS 36 OF 38



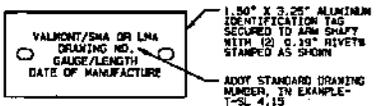
DETAIL 1 LUMINAIRE ARM END TENON



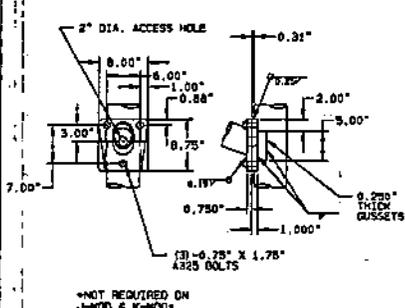
DETAIL 2 LUMINAIRE ARM REFORMED END



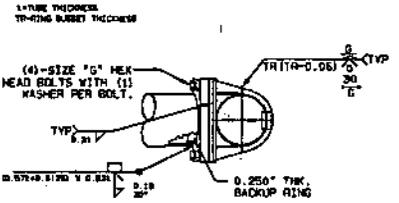
DETAIL 3 POLE TOP



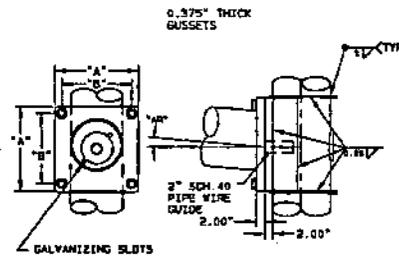
DETAIL 4 ARM IDENTIFICATION TAG



DETAIL 5 LUMINAIRE ARM ATTACHMENT



DETAIL 6 SIGNAL ARM SLIP JOINT

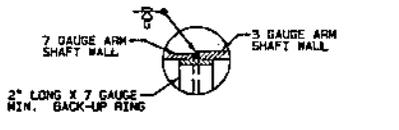


NOTE: "AR" IS ARM RISE. ARM RISE IS CALCULATED USING THE MAXIMUM LOADINGS. ALL ARMS WILL BE PROVIDED WITH THE RISE DERIVED FROM MAXIMUM LOADINGS.

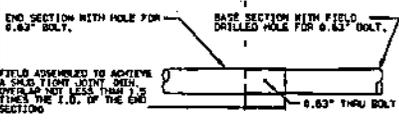
SIGNAL ARM ATTACHMENT DATA

MAST ARM	"AR"	"A"	"B"	"G"
20'	6.50"	21.00	17.00	1.50" X 4.25"
25'	6.50"	21.00	17.00	1.50" X 4.25"
30'	1.00"	21.00	17.00	1.50" X 4.25"
35'	1.00"	21.00	17.00	1.50" X 4.25"
40'	2.00"	21.00	17.00	1.50" X 4.25"
45'	2.00"	21.00	17.00	1.50" X 4.25"
50'	3.00"	21.00	17.00	1.50" X 4.25"
55'	3.00"	21.00	17.00	1.50" X 4.25"
60'	3.50"	22.00	18.00	1.50" X 4.25"
65'	4.50"	22.00	18.00	1.50" X 4.25"

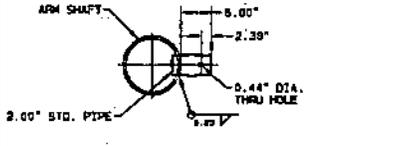
DETAIL 5 SIGNAL ARM ATTACHMENT



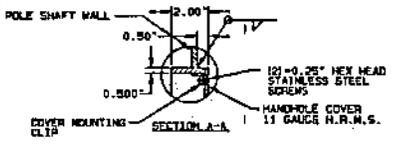
DETAIL 7 55" ARM SPLICE



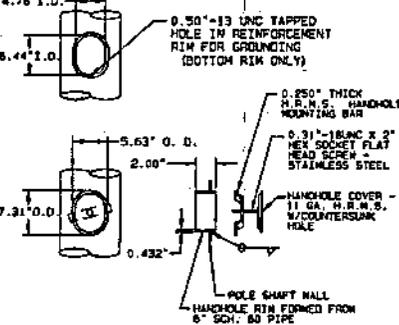
DETAIL 8 SIGNAL ARM SLIP JOINT



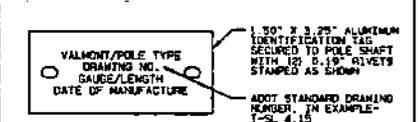
DETAIL 9 SIGNAL ARM TENON



DETAIL 10 UPPER HANDHOLE-TYPE Q & R



DETAIL 11 UPPER HANDHOLE-TYPE W & V



DETAIL 12 POLE IDENTIFICATION TAG

CITY OF GOODYEAR  
TYPE J, K, Q, R, V & W POLES  
TRAFFIC SIGNAL STRUCTURES

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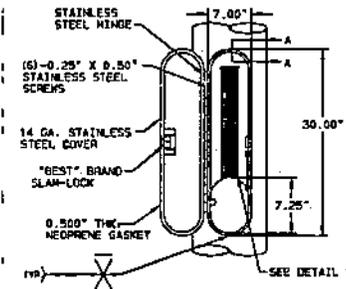
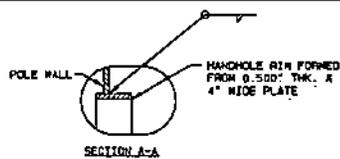
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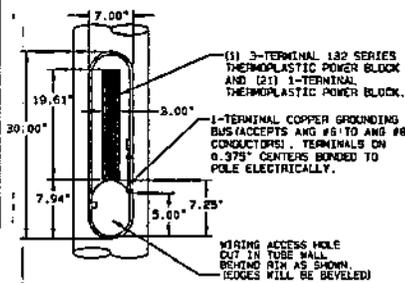
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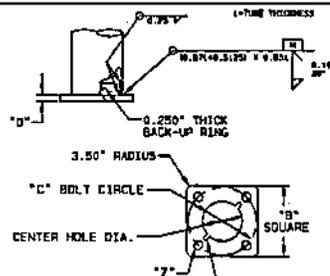




DETAIL 13 TERMINAL COMPARTMENT W/HINGED COVER

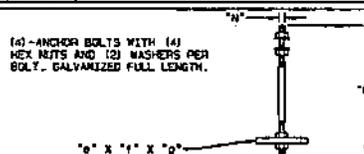


DETAIL 14 TERMINAL BLOCKS

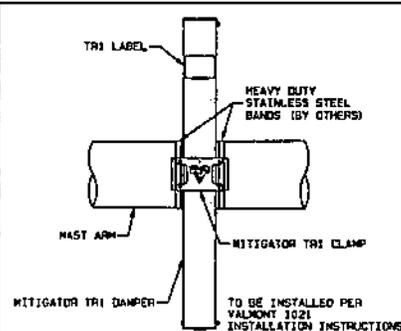


DUO TO MANUFACTURING CRITERIA, BASEPLATES MAY HAVE SLOTS FOR GALVANIZING DRAINAGE

DETAIL 15 POLE BASE



DETAIL 16 ANCHOR BOLT



DETAIL 17 TRI MITIGATOR

TITLE CITY OF GOODYEAR  
TYPE J, K, Q, R, V & W POLES  
TRAFFIC SIGNAL STRUCTURES

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PAGE NUMBER 4 OF 8  
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DATE: 11/21/23	APPROVED BY: [Signature]	DRAWN BY: RC, AP	CLIP NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		DETAILS	
		38 OF 38	