BID NO. _____

CITY OF SAN LUIS

SAN LUIS I LAND PORT OF ENTRY
OFFSITE IMPROVEMENTS

C.I.P NO. _____

MAYOR

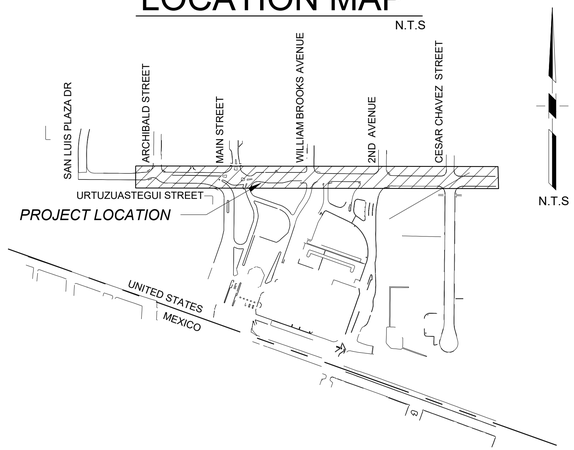
NIEVES RIEDEL

CITY COUNCIL

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

LOCATION MAP

N.T.S



CITY ADMINISTRATOR

RALPH VELEZ

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

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811

BID NO.
C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE IMPROVEMENTS

NOTES & LEGEND

GENERAL NOTES

1. 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 ADOT SIGNAL AND LIGHTING STANDARD DRAWINGS, AND SHALL BE IN ACCORDANCE WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS.

2. 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 CASES 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-BUILD" DRAWINGS TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL NO LATER THAN 14 CALENDAR DAYS AFTER COMPLETION OF THE PROJECT.

3. 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 TO THE FINAL ACCEPTANCE OF WORK, SHALL BE REMOVED AND REPLACED IN A TIMELY AND ACCEPTABLE MANNER TO THE CITY OF SAN LUIS.

4. 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.

5. 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.

6. 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 BLOWING DUST FROM THESE MATERIALS. ALLS 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.

7. 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 (IMSA). 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 CONJUNCTION WITH THIS PROJECT AND SHALL INSPECT, A LEAST TWICE DAILY, TO ENSURE CONFORMANCE WITH THE TRAFFIC CONTROL PLAN.

8. 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.

9. 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.

10. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL "POTHOLE" ALL POTENTIAL POINTS OF CONFLICT BETWEEN NEW UTILITIES AND EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DISCREPANCIES EXIST BETWEEN DESIGN DESIGN INFORMATION AND ACTUAL FIELD CONDITIONS.

11. THE CONTRACTOR SHALL IMPLEMENT ALL APPLICABLE BEST MANAGEMENT PRACTICES (BMP'S) FOR THE DURATION OF THE PROJECT PER CITY OF YUMA ORDINANCES AND ADEQ GUIDELINES.

12. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) STANDARD FOR CONSTRUCTION (TITLE 29, CODE OD FEDERAL REGULATIONS, PART 1926 AS AMENDED) AND CITY OF SAN LUIS SAFETY REGULATIONS ARE APPLICABLE FOR THE COMPLETION OF THE WORK ON THIS PROJECT.

13. 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 RUNOFF.

14. CONTRACTOR SHALL CONSULT WITH CITY OF SAN LUIS STAFF TO DETERMINE IF REMOVED VALVE AND MANHOLE FRAMES AND COVERS CAN BE REUSED.

15. 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
ABC	AGGREGATE BASE COURSE
AC, ASPH.	ASPHALTIC CONCRETE
ADA	AMERICAN DISABILITY ACT
ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION
AP	ANGLE POINT
AC, ASPH.	ASPHALTIC CONCRETE
ACSMS	ALUMINUM CAP SURVEY MONUMENT STAMPED
AVE	AVENUE
BC	BEGINNING OF CURB
BC, BCKCRB	BACK OF CURB
BCHS	BRASS CAP IN HANDHOLE STAMPED
BCR	BEGIN CURB RETURN
BEG	BEGINNING
BM	BENCH MARK
BLDG	BUILDING
BLK	BLOCK
BK	BACK
BMP	BEST MANAGEMENT PRACTICE
BSW	BACK OF SIDEWALK
BOTT	BOTTOM
BVCS	BEGIN VERTICAL CURVE STATION
BVCE	BEGIN VERTICAL CURVE ELEVATION
CAB	CABINET
CB	CATCH BASIN
CBP	CUSTOMS AND BORDER PROTECTION
CI	CURB INLET
CL	CENTERLINE
C/G	CURB AND GUTTER
C.L.F.	CHAIN LINK FENCE
C, CONC	CONCRETE
CMP	CORRUGATED METAL PIPE
COMM	COMMUNICATION
CONC.	CONCRETE
CONST	CONSTRUCTION
CONT.	CONTINUES
COR	CORNER
CTR	CENTER
CTRL.	CONTROL
COY	CITY OF YUMA
DET	DETAIL
D.O.	DRAIN INLET
DG	DECOMPOSED GRANITE
DIA.	DIAMETER
DWG	DRAWING
DW, DWY	DRIVEWAY
E	EASTERLY
EA	EA
EC	END OF CURVE
EJ	EXPANSION JOINT
E, ELEC	ELECTRICAL
ECVT	ELECTRICAL VAULT
ELEV.	ELEVATION
EG	EXISTING GRADE
EL	ELEVATION
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
ETW	EDGE TRAVELED WAY
EVCS	END VERTICAL CURVE STATION
EVCE	END VERTICAL CURVE ELEVATION
EXIST	EXISTING
FC	FACE OF CURB
FD	FOUND
FDTN	FOUNDATION
FH, F	FIRE HYDRANT
FG	FINISH GRADE
FL	FLOW LINE
FNC	FENCE
FOW	FACE OF WALL
FS	FINISH SURFACE
FTG	FOOTING
FW	FACE OF WALL
G	GUTTER ELEVATION
GB	GRADE BREAK
GRD	GROUND
GP	GUARD POST
GV	GATE VALVE
H, HORZ	HORIZONTAL
HH	HANDHOLD
HP	HIGH PRESSURE
HP	HIGH POINT
ICV	IRRIGATION CONTROL VALVE
I.E., IE	INVERT ELEVATION
INT	INTERSECTION
L	LENGTH
LP	LOW POINT
LT	LEFT
MGAS	MAIN GAS
MEX	MEXICO
MH	MANHOLE
MTR	METER
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
MATL	MATERIAL
MIN	MINIMUM
N	NORTH
NTS	NOT TO SCALE
OFF	OFFSET
OHE	OVERHEAD ELECTRIC
P	PAVING
PB	PULL BOX
PC	POINT OF CURVATURE
PI	POINT OF TANGENT INTERSECTION
PKG	PARKING
PNL	PANEL
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
PWR	POWER
PVC	POLYVINYL CHLORIDE
PUE	PUBLIC UTILITY EASEMENT
RCP	REINFORCED CONCRETE PIPE
R/W, ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH
SB	SOUTHBOUND
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SMH/SSMH	SEWER MANHOLE
SR	STATE ROUTE
ST	STREET
STA	STATION
STLT	STREET LIGHT
SQ.	SQUARE
SW, S/W, SDWK	SIDEWALK
S, SS, SWR	SANITARY SEWER
TC	TOP OF CURB
T, TELE	TELEPHONE
TF	TOP OF FOUNDATION
TS	TRAFFIC SIGNAL
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UGG	UNDERGROUND GAS
U.S.A.	UNITED STATES OF AMERICA
UNK	UNKNOWN
UTIL	UTILITY
V, VERT.	VERTICAL
VC	VERTICAL CURVE
VG	VALLEY GUTTER
W	WESTERLY OR WEST
WAS	WATER AGENCY STANDARDS
WLL	WALL
WM	WATER METER
WTR	WATER
WV	WATER VALVE
XNG	CROSSING

LEGEND

EXISTING	PROPOSED	
sd	sd	STORM DRAIN
s	s	SANITARY SEWER
w	w	WATER
fw	fw	FIRE WATER
irr	irr	IRRIGATION
g	g	GAS
e	e	ELECTRIC
t	t	TELEPHONE
fo	fo	FIBER OPTIC
com		COMMUNICATIONS
cax	cax	CABLE
		CENTER LINE
		PROPERTY LINE
		CURB & GUTTER
x	x	FENCE LINE
		DITCH/SWALE
5090	5090	MAJOR CONTOUR

EXISTING	PROPOSED	
5091	5091	MINOR CONTOUR
		WATER VALVE
W		WATER METER
		FIRE HYDRANT
D	SD	STORM DRAIN MANHOLE
		STORM DRAIN INLET
		STORM COMBO BOX
S	SS	SANITARY SEWER MANHOLE
		SANITARY SEWER CLEANOUT
	G&O	GREASE TRAP
GM	GM	GAS METER
		LIGHT POLE
T E S	T E S	ELECTRICAL EQUIPMENT
		UTILITY POLE
		GUY WIRE
		SIGN
		INLET PROTECTION

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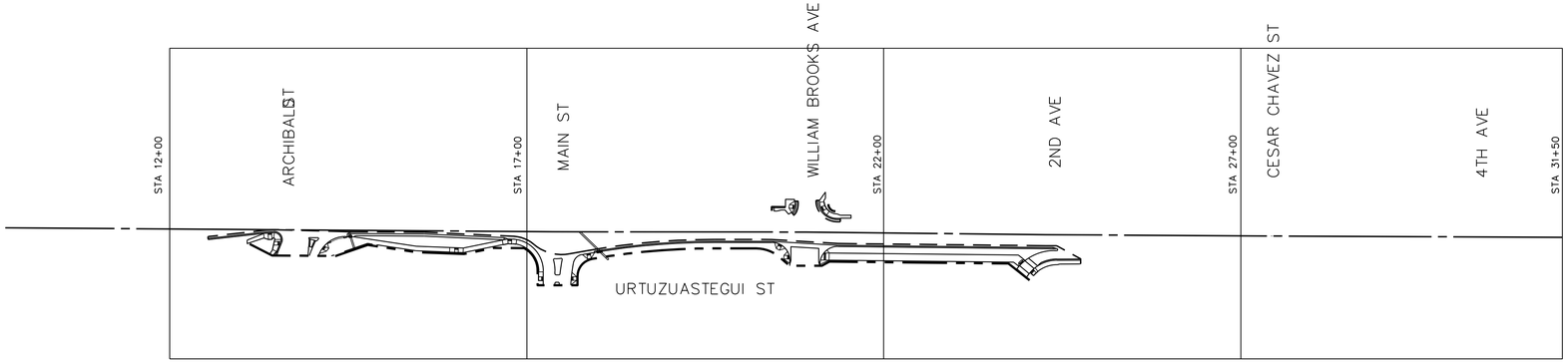
SEAL

DRAFT

PSOMAS		333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300
SCALE:	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
GENERAL NOTES		2 OF: 38

SHEET INDEX



SHEETS: 8, 10, 12, 14, 16, 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 22+00 TO STA 27+00

SHEET INDEX

DESIGN NOTES

BASIS OF COORDINATES AND ELEVATIONS:

HORIZONTAL CONTROL:
THIS PROJECT IS BASED UPON THE ARIZONA COORDINATE SYSTEM, 1983 (ACS 83), NAD83 (2011)(2010.0000) 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)
PT#1 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 (NCP/ECP) AND TRANSLATING THE RESULTING COORDINATES AS FOLLOWS:

NP LOC = (NP ACS83 - NCP ACS83) * CF + NCP ACS83 - KN

EP LOC = (EP ACS83 - ECP ACS83) * CF + ECP ACS83 - KE

WHERE:

NP LOC = LOCAL NORTH NP ACS83 = ACS 83 NORTH
NCP ACS83 = ACS 83 AT CENTRAL POINT
EP LOC = LOCAL EAST EP ACS83 = ACS 83 EAST
ECP ACS83 = ACS 83 AT CENTRAL POINT

COMBINED FACTOR (CF) = 0.9999484527
NCP = 542 435.53 (ACS83) ECP = 380 374.47 (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	
PT#1	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=382004.76
Y=542445.25

LENGTH OF PROJECT

Urtuzuastegui Street

Sta 12+53.68 to 30+06.80 = 1753.12'

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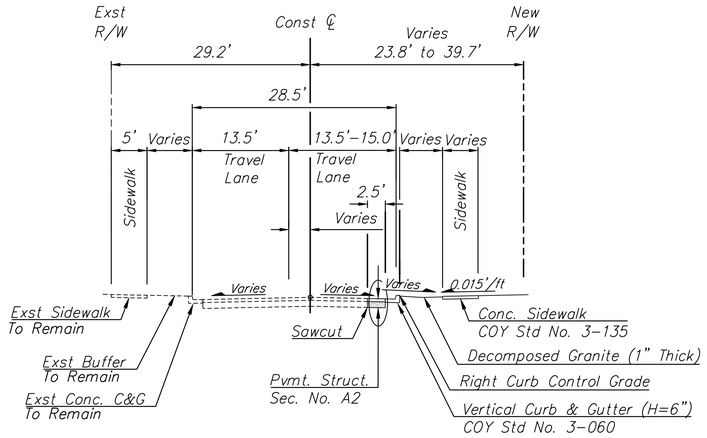
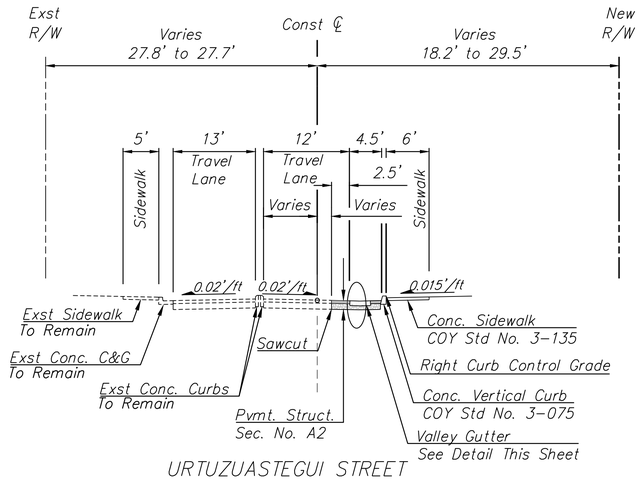
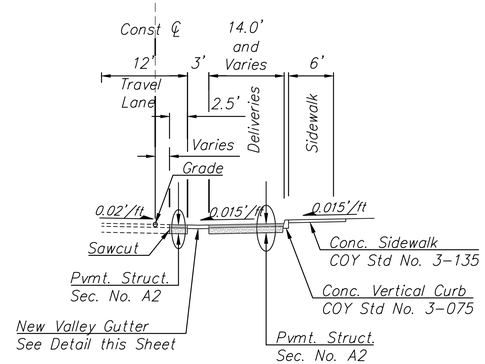
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
INDEX & DESIGN PLAN		3 OF: 38



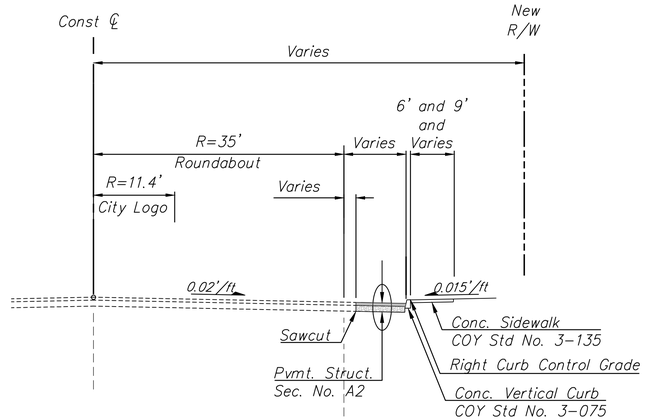
URTUZUASTEGUI STREET
Sta 12+53 to Archibald Street



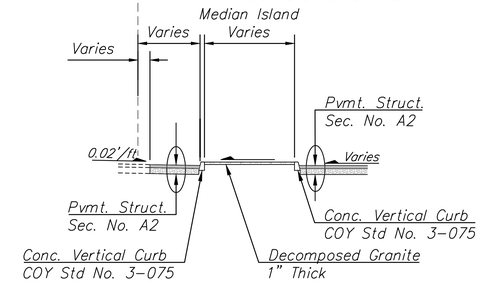
URTUZUASTEGUI STREET
Archibald Street to Main Street



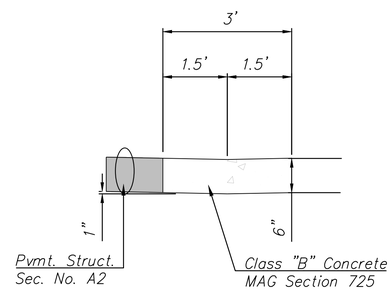
URTUZUASTEGUI STREET
Sta 14+49 to Sta 16+68



URTUZUASTEGUI STREET
Roundabout at Main Street



URTUZUASTEGUI STREET
Sta 17+37 to Sta 17+50



NEW VALLEY GUTTER

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

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SAN LUIS I LAND PORT OF ENTRY OFFSITE		
TYPICAL SECTIONS		4 OF: 38

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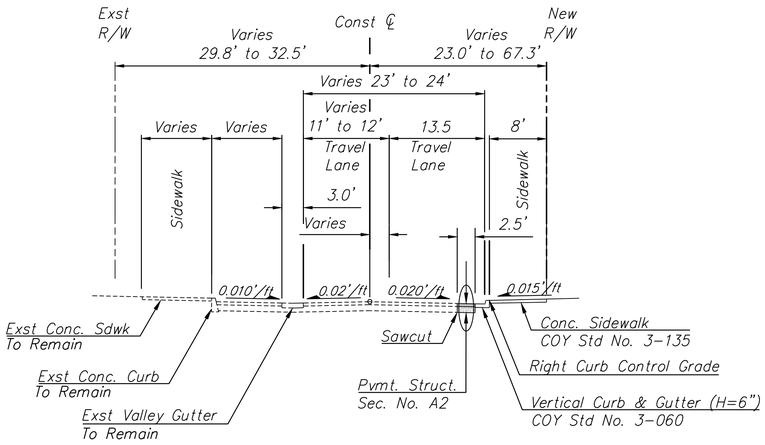
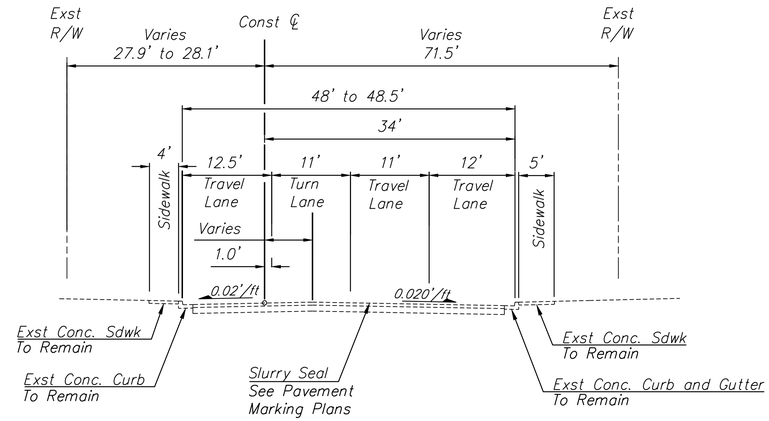


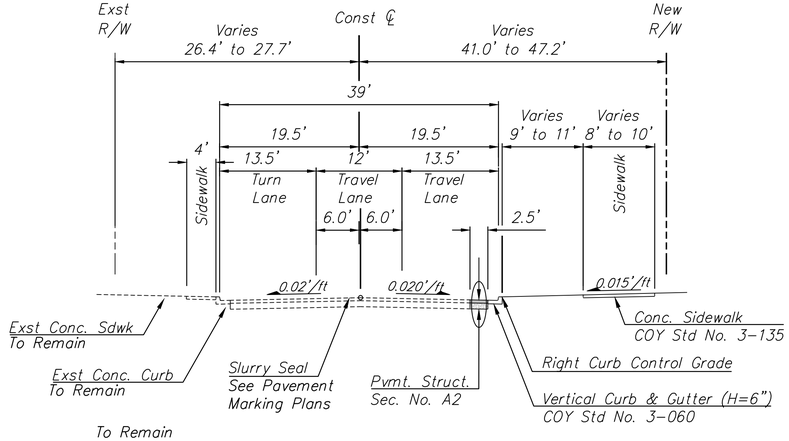
URTUZUASTEGUI STREET

Main Street to William Brooks Avenue (1st Street)



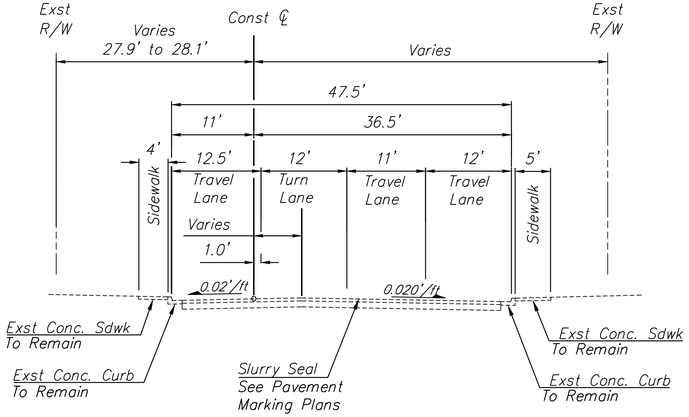
URTUZUASTEGUI STREET

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

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TYPICAL SECTIONS		5 OF: 38

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STORM DRAIN PIPE SUMMARY TABLE

Station and Offset	Plan Reference Number	◒ Controlling Fill Height Range	Size, Corrugated	Size, Smooth	Length (0.00)	◪ Corrugation	Wall Thickness (0.000)	Zinc	Bituminous Coated	Aluminum	Bituminous Coated	◪ Corrugation	Wall Thickness (0.000)	Uncoated	Bituminous Coated	RCP, Class - Trench	NRCP, Class	NRCIPCP, Min. Wall Thickness (0)	AASHTO M-294 Type C	AASHTO M-294 Type S	CHDPEP	Pipe Excavation (0)	Pipe Backfill (0) C-13.15	Drainage Excavation (0)	REMARKS
			DESCRIPTION			PIPE MATERIAL																		QUANTITIES	
			In.	In.	Ft.	CSP				In.	Coating	CAP			In.									Cubic Yard	
14+51.44, 2.50' RT TO 14+52.95, 6.79' RT	1	3		18	5.26									II											EXISTING 18" PIPE TO REMAIN REMOVE 19 LF
17+74.97, 0.42' RT TO 18+01.58, 26.09' RT	2	2		18	37.67									II											EXISTING 18" PIPE TO REMAIN REMOVE 17 LF

NOTES:

1. PIPE OPTIONS ARE THOSE REQURIED TO MEET MINIMUM SERVICE LIFE. STORM DRAIN PIPES SHALL BE RCP AND NO OTHER ALTERNATIVES WILL BE CONSIDERED.
2. THE ZEROS IN PARENTHESES (0, 0.0, 0.00 & 0.000) INDICATE THE DIMENTIONAL PRECISION FOR THAT COLUMN.
3. FOR PIPE PLACEMENT, SEE ADOT STD DWGS C-13.10 & C-13.15.
4. PIPE COLLARS ARE CONSIDERED TO BE INCLUDED IN THE PRICE OF THE PIPE.
5. ABBREVIATIONS:
   - CSP: CORRUGATED STEEL PIPE
   - CAP: CORRUGATED ALUMINUM PIPE
   - RCP: REINFORCED CONCRETE PIPE
   - NRCP: NON-REINFORCED CONCRETE PIPE
   - NRCIPCP: NON-REINFORCED CAST-IN-PLACE CONCRETE PIPE
   - CHDPEPP: CORRUGATED HIGH-DENSITY POLYETHYLENE PLASTIC PIPE

FILL HEIGHT RANGE TABLE (Ft.)												
RANGE NO.		1	2	3	4	5	6	7	8	9	10	11	12
FILL	>	1	3	5	8	11	15	20	25	30	40	55	70
HEIGHT (Ft.)	≤	3	5	8	11	15	20	25	30	40	55	70	90
◒ SHOULD FIELD CONDITIONS VARY FROM THE RANGE INDICATED, CONTACT DESIGN FOR RE-EVALUATION OF PIPE DESIGN REQUIREMENTS.													

◪ PIPE CORRUGATION			
A	2⅔ x ½	D	6x2
B	3x1	E	3x1 or 9 x 2½
C	9 x 2½		

CATCH BASIN SUMMARY TABLE

CATCHBASIN NUMBER	CATCH BASIN Station	Type	Detail	WING LENGTH Downstation	WING LENGTH Upstation	SLOTTED DRAIN Length Dia.	SLOTTED DRAIN Length Downstation	SLOTTED DRAIN Length Upstation	SLOTTED DRAIN No.	GUTTER INLET ELEVATION Elevation	GRATES Type	GRATES Elevation	INLET PIPE Elevation	INLET PIPE Dia.	INLET PIPE Dir.	INLET PIPE No.	INLET PIPE Elevation	INLET PIPE Dia.	INLET PIPE Dir.	INLET PIPE No.	OUTLET PIPE Elevation	OUTLET PIPE Dia.	OUTLET PIPE Dir.	OUTLET PIPE No.	REMARKS and NOTES	CATCHBASIN NUMBER
1	14+52.95, 6.79' RT	1	5.10	–	–	–	–	–	–	129.81	–	–	–	–	–	–	–	–	–	–	123.73	18	N	1	TYPE 1 SINGLE PER ADOT C-15.10	1
2	18+01.50, 26.09' RT	1	5.10	–	–	–	–	–	–	130.95	–	–	–	–	–	–	–	–	–	–	126.30	18	N	2	TYPE 1 DOUBLE PER ADOT C-15.10	2

Know what's **below.** **Call** before you dig.

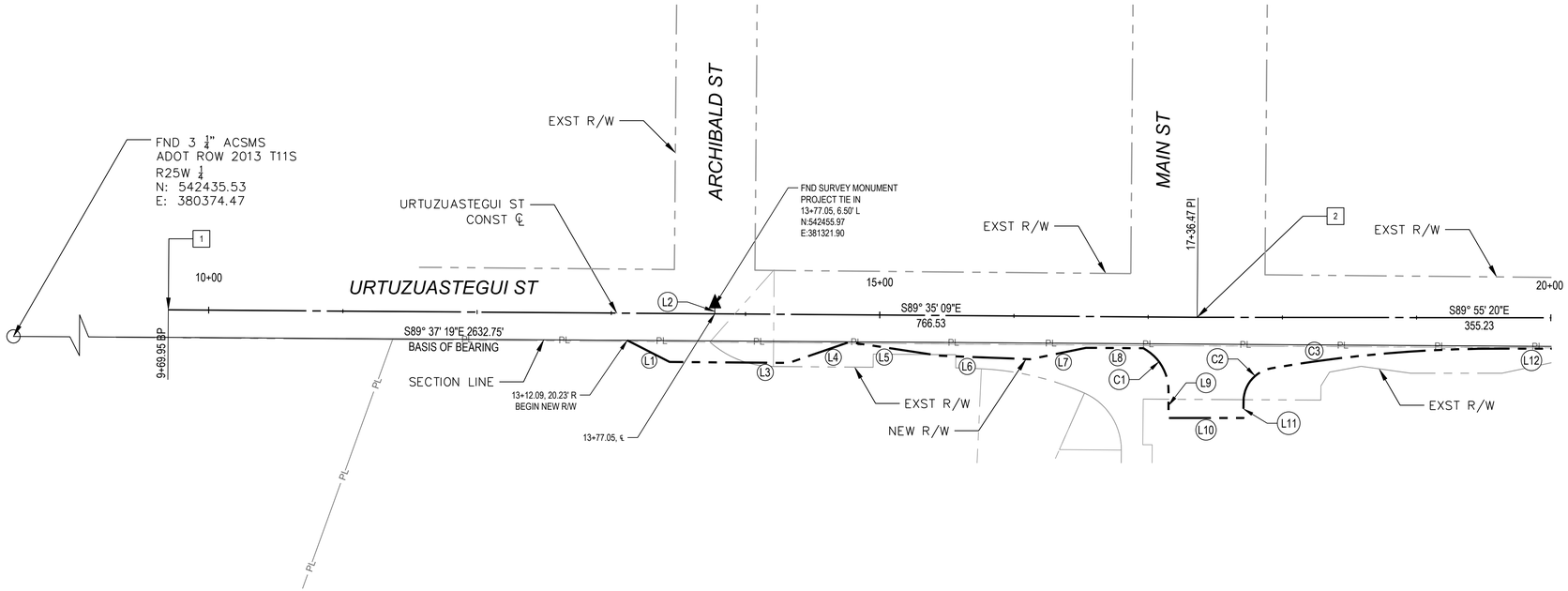
811

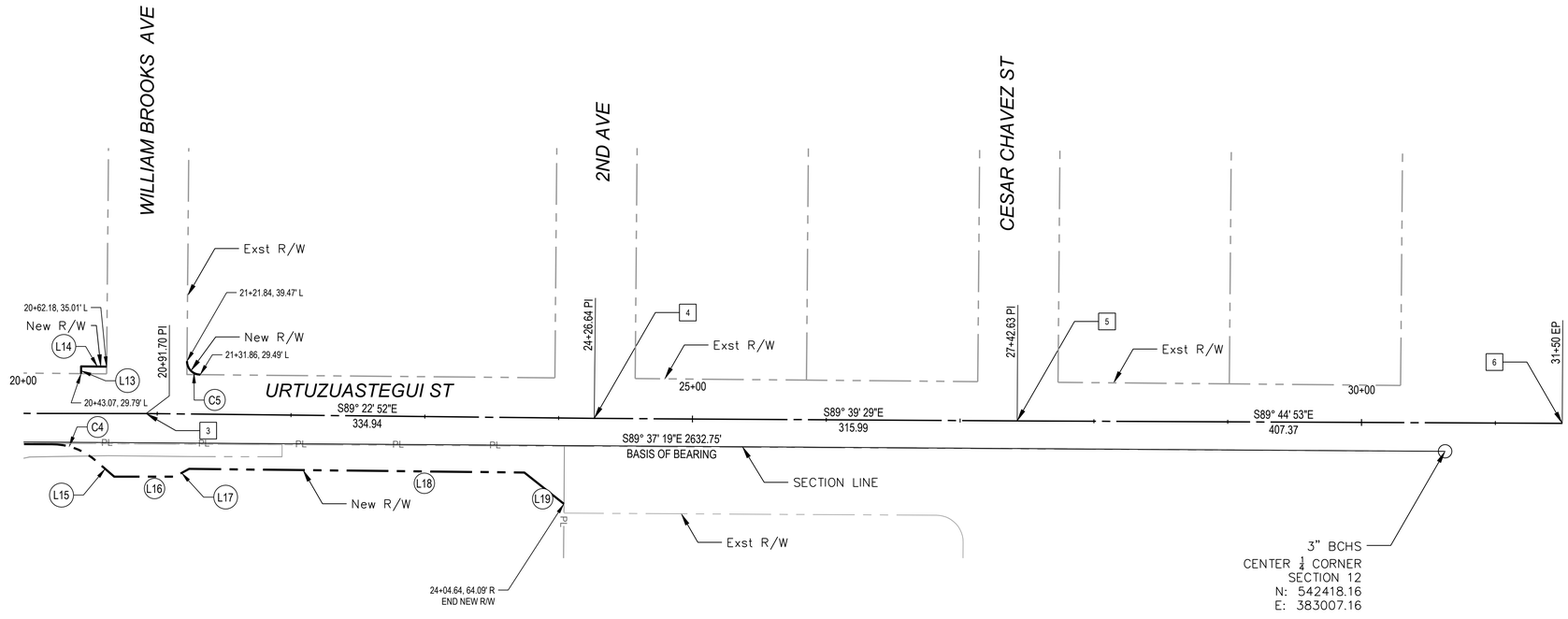
SEAL

DRAFT

PSOMAS	333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300
SCALE: N.T.S.	APPROVED BY:
DATE: 8/31/23	C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE	
STORM DRAIN SUMMARY	6 OF: 38

DRAWN: JV, RC, AP





SHEET NOTES

Line Table		
Line #	Length	Bearing
L1	35.39	S62° 54' 42.71"E
L2	6.50	N00° 26' 20.60"E
L3	88.86	S89° 33' 50.37"E
L4	47.59	N71° 00' 13.90"E
L5	68.20	S81° 27' 20.63"E
L6	67.17	S87° 44' 22.49"E
L7	42.63	N78° 27' 11.36"E
L8	42.71	S89° 33' 50.65"E
L9	19.71	S00° 00' 18.28"W
L10	55.87	N90° 00' 00.00"E
L11	12.45	N00° 03' 40.36"E
L12	58.42	S89° 55' 20.30"E
L13	5.35	N00° 30' 36.58"E
L14	19.07	S89° 31' 27.41"E
L15	17.72	S48° 58' 05.40"E
L16	45.35	N90° 00' 00.00"E
L17	12.15	N61° 19' 48.58"E
L18	250.50	S89° 22' 52.22"E
L19	37.73	S51° 38' 27.24"E

Curve Table			
Curve #	Length	Radius	Delta
C1	39.31	35.50	63.44
C2	34.94	25.00	80.08
C3	172.01	991.50	9.94
C4	36.28	50.00	41.57
C5	15.70	10.00	89.96

CONTROL POINT				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	542452.41	380914.76	99.85	BEGIN PROJECT
2	542446.87	381681.27	131.60	MAIN ST
3	542446.39	382036.49	132.27	WILLIAM BROOKS AVE
4	542442.77	382371.41	133.11	2ND ST
5	542440.89	382687.40	131.77	CESAR CHAVEZ ST
6	542439.10	383094.76	N/A	END OF PROJECT

LEGEND

EXISTING R/W

NEW R/W

SURVEY MONUMENT

SCALE: 1" = 20'

0 20 60

10 40

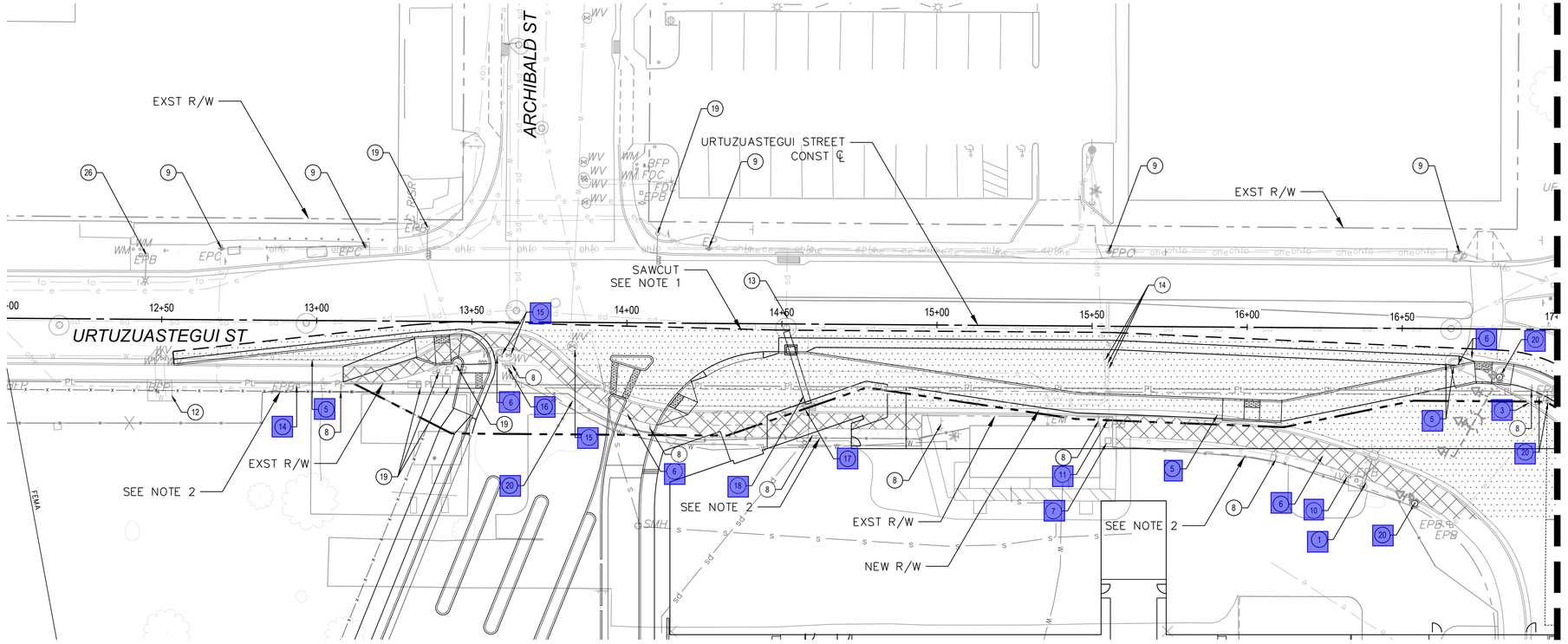
Know what's **below.**
Call before you dig.

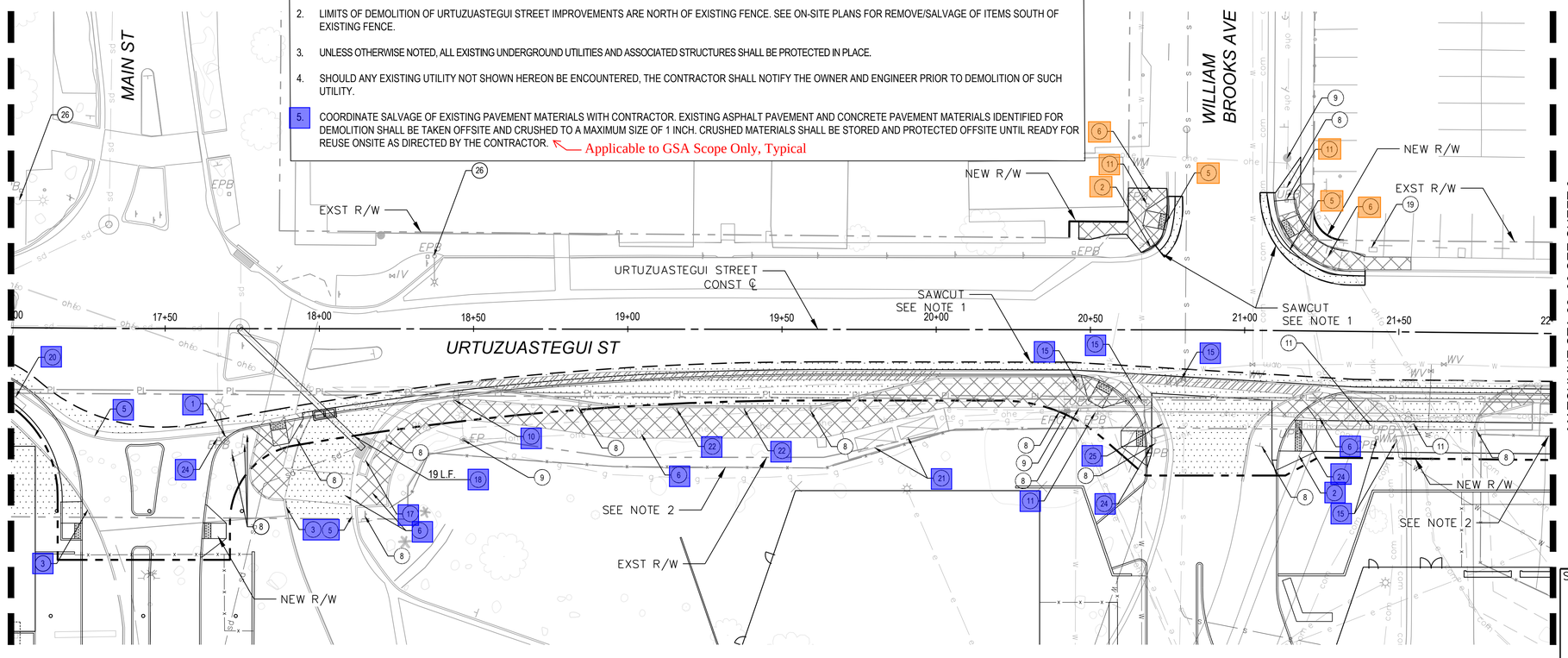
811

SEAL

DRAFT

PSOMAS	333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300
SCALE: 1"=100'	APPROVED BY:
DATE: 8/31/23	DRAWN: JV, RC, AP
	C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE	
HORIZONTAL CONTROL PLAN	7 OF: 38





DEMOLITION NOTES

1. SEE GEOMETRY PLANS FOR STATION/OFFSET OF SAWCUT LINE.
2. LIMITS OF DEMOLITION OF URTUZUASTEGUI STREET IMPROVEMENTS ARE NORTH OF EXISTING FENCE. SEE ON-SITE PLANS FOR REMOVE/SALVAGE OF ITEMS SOUTH OF EXISTING FENCE.
3. UNLESS OTHERWISE NOTED, ALL EXISTING UNDERGROUND UTILITIES AND ASSOCIATED STRUCTURES SHALL BE PROTECTED IN PLACE.
4. SHOULD ANY EXISTING UTILITY NOT SHOWN HEREON BE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER PRIOR TO DEMOLITION OF SUCH UTILITY.
5. 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

1. REMOVE EXISTING LIGHT. REMOVE EXISTING PULL BOXES, CONDUIT AND ELECTRICAL WIRING SEE LIGHTING PLAN FOR MORE INFORMATION.
2. REMOVE AND SALVAGE EXISTING CHAIN LINK FENCE, IRON FENCE AND GATES, INCLUDING FOUNDATIONS.
3. REMOVE AND DISPOSE EXISTING CONCRETE CURB.
4. REMOVE AND DISPOSE EXISTING SITE/RETAINING WALLS AND FOUNDATIONS.
5. REMOVE AND DISPOSE EXISTING CONCRETE CURB AND GUTTER.
6. REMOVE AND DISPOSE EXISTING SIDEWALK/CONCRETE, PAVER PLATFORMS AND BASE, FULL DEPTH. SEE DEMO NOTE 5.
7. RELOCATE EXISTING SERVICE METER FOR TRAFFIC SIGNAL CONTROLLER AT ARCHIBALD ST. AND STREET LIGHTS. SEE TRAFFIC SIGNAL PLANS.
8. EXISTING SIGNS SEE SIGNING PLANS.
9. PROTECT IN PLACE EXISTING OVERHEAD UTILITY POLE.
10. EXISTING IRRIGATION VALVE, TO BE REMOVED
11. ADJUST TO FINISHED GRADE MISCELLANEOUS DRY UTILITY EQUIPMENT, PULL BOXES, MANHOLES.
12. PROTECT IN PLACE EXISTING WET UTILITY STRUCTURE.
13. EXISTING STORM DRAIN MANHOLE, RESET TO FINISHED GRADE.
14. PROTECT IN PLACE EXISTING MISCELLANEOUS DRY UTILITY EQUIPMENT, PULL BOXES, AND CONDUIT.
15. EXISTING WET UTILITY (VALVES, METERS) ADJUST TO FINISHED GRADE.
16. REMOVE EXISTING WATER METER.
17. REMOVE AND DISPOSE EXISTING STORM DRAIN CATCH BASIN.
18. REMOVE AND DISPOSE EXISTING STORM DRAIN PIPE. SEE STORM DRAIN PLAN.
19. PROTECT IN PLACE EXISTING TRAFFIC SIGNAL EQUIPMENT, POLE, ARM, FOUNDATION, EXISTING PULL BOXES, CONDUIT AND ELECTRICAL WIRING. SEE TRAFFIC SIGNAL PLAN FOR MORE INFORMATION.
20. 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.
21. REMOVE AND DISPOSE EXISTING STRUCTURES, CANOPY, COLUMNS, MISC. EQUIPMENT, AND CONCRETE BARRIERS, INCLUDING FOUNDATIONS WHERE APPLICABLE.
22. REMOVE AND DISPOSE EXISTING BOLLARDS/POSTS, FULL DEPTH INCLUDING FOUNDATION.
23. SEE SEPARATE ONSITE FOR WORK OUTSIDE EXISTING STREET RIGHT-OF-WAY.
24. REMOVE EXISTING PULLBOX, SEE LIGHTING OR TRAFFIC SIGNAL SHEETS.
25. REMOVE AND DISPOSE EXISTING SIDEWALK SCUPPER .
26. 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. 811

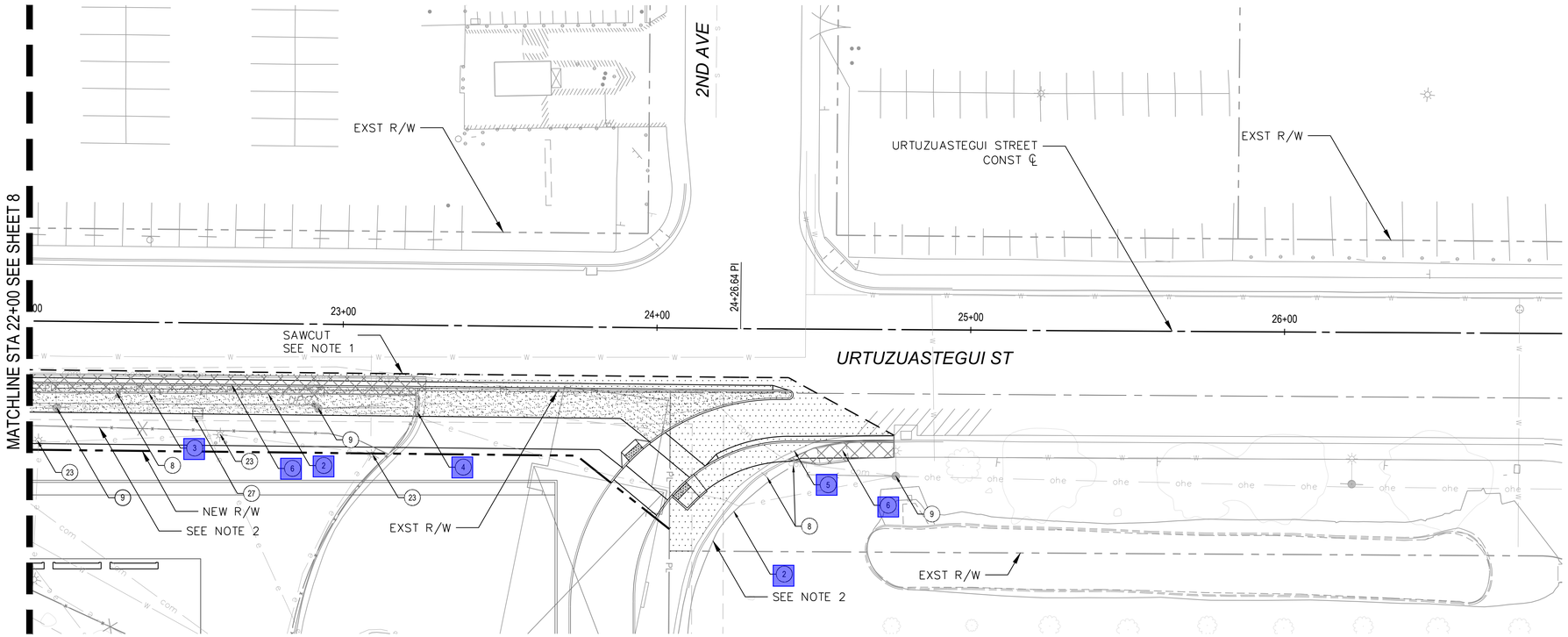
SCALE: 1"=20'

0 20 60
10 40

SEAL

DRAFT

PSOMAS	333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300	
SCALE: 1"=20'	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
DEMOLITION PLAN		8 OF: 38



DEMOLITION NOTES

1. SEE GEOMETRY PLANS FOR STATION/OFFSET OF SAWCUT LINE.
2. LIMITS OF DEMOLITION OF URTUZUASTEGUI STREET IMPROVEMENTS ARE NORTH OF EXISTING FENCE. SEE ON-SITE PLANS FOR REMOVE/SALVAGE OF ITEMS SOUTH OF EXISTING FENCE.
3. UNLESS OTHERWISE NOTED, ALL EXISTING UNDERGROUND UTILITIES AND ASSOCIATED STRUCTURES SHALL BE PROTECTED IN PLACE.
4. SHOULD ANY EXISTING UTILITY NOT SHOWN HEREON BE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER PRIOR TO DEMOLITION OF SUCH UTILITY.
5. 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.

SHEET NOTES

1. REMOVE EXISTING LIGHT. REMOVE EXISTING PULL BOXES, CONDUIT AND ELECTRICAL WIRING SEE LIGHTING PLAN FOR MORE INFORMATION.
2. REMOVE AND SALVAGE EXISTING CHAIN LINK FENCE, IRON FENCE AND GATES, INCLUDING FOUNDATIONS.
3. REMOVE AND DISPOSE EXISTING CONCRETE CURB.
4. REMOVE AND DISPOSE EXISTING SITE/RETAINING WALLS AND FOUNDATIONS.
5. REMOVE AND DISPOSE EXISTING CONCRETE CURB AND GUTTER.
6. REMOVE AND DISPOSE EXISTING SIDEWALK/CONCRETE, PAVER PLATFORMS AND BASE, FULL DEPTH. SEE DEMO NOTE 5.
7. RELOCATE EXISTING SERVICE METER FOR TRAFFIC SIGNAL CONTROLLER AT ARCHIBALD ST. AND STREET LIGHTS. SEE TRAFFIC SIGNAL PLANS.
8. EXISTING SIGNS SEE SIGNING PLANS.
9. PROTECT IN PLACE EXISTING OVERHEAD UTILITY POLE.
10. EXISTING IRRIGATION VALVE, TO BE REMOVED
11. ADJUST TO FINISHED GRADE MISCELLANEOUS DRY UTILITY EQUIPMENT, PULL BOXES, MANHOLES.
12. PROTECT IN PLACE EXISTING WET UTILITY STRUCTURE.
13. EXISTING STORM DRAIN MANHOLE, RESET TO FINISHED GRADE.
14. PROTECT IN PLACE EXISTING MISCELLANEOUS DRY UTILITY EQUIPMENT, PULL BOXES, AND CONDUIT.
15. EXISTING WET UTILITY (VALVES, METERS) ADJUST TO FINISHED GRADE.
16. REMOVE EXISTING WATER METER.
17. REMOVE AND DISPOSE EXISTING STORM DRAIN CATCH BASIN.
18. REMOVE AND DISPOSE EXISTING STORM DRAIN PIPE. SEE STORM DRAIN PLAN.
19. PROTECT IN PLACE EXISTING TRAFFIC SIGNAL EQUIPMENT, POLE, ARM, FOUNDATION, EXISTING PULL BOXES, CONDUIT AND ELECTRICAL WIRING. SEE TRAFFIC SIGNAL PLAN FOR MORE INFORMATION.
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22. REMOVE AND DISPOSE EXISTING BOLLARDS/POSTS, FULL DEPTH INCLUDING FOUNDATION.
23. SEE SEPARATE ONSITE FOR WORK OUTSIDE EXISTING STREET RIGHT-OF-WAY.
24. REMOVE EXISTING PULLBOX, SEE LIGHTING OR TRAFFIC SIGNAL SHEETS.
25. REMOVE AND DISPOSE EXISTING SIDEWALK SCUPPER .
26. PROTECT IN PLACE EXISTING LIGHT POLE, PULL BOXES, AND CONDUIT.
27. EXISTING TRANSFORMER TO BE REMOVED BY APS.

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

SCALE: 1"=20'

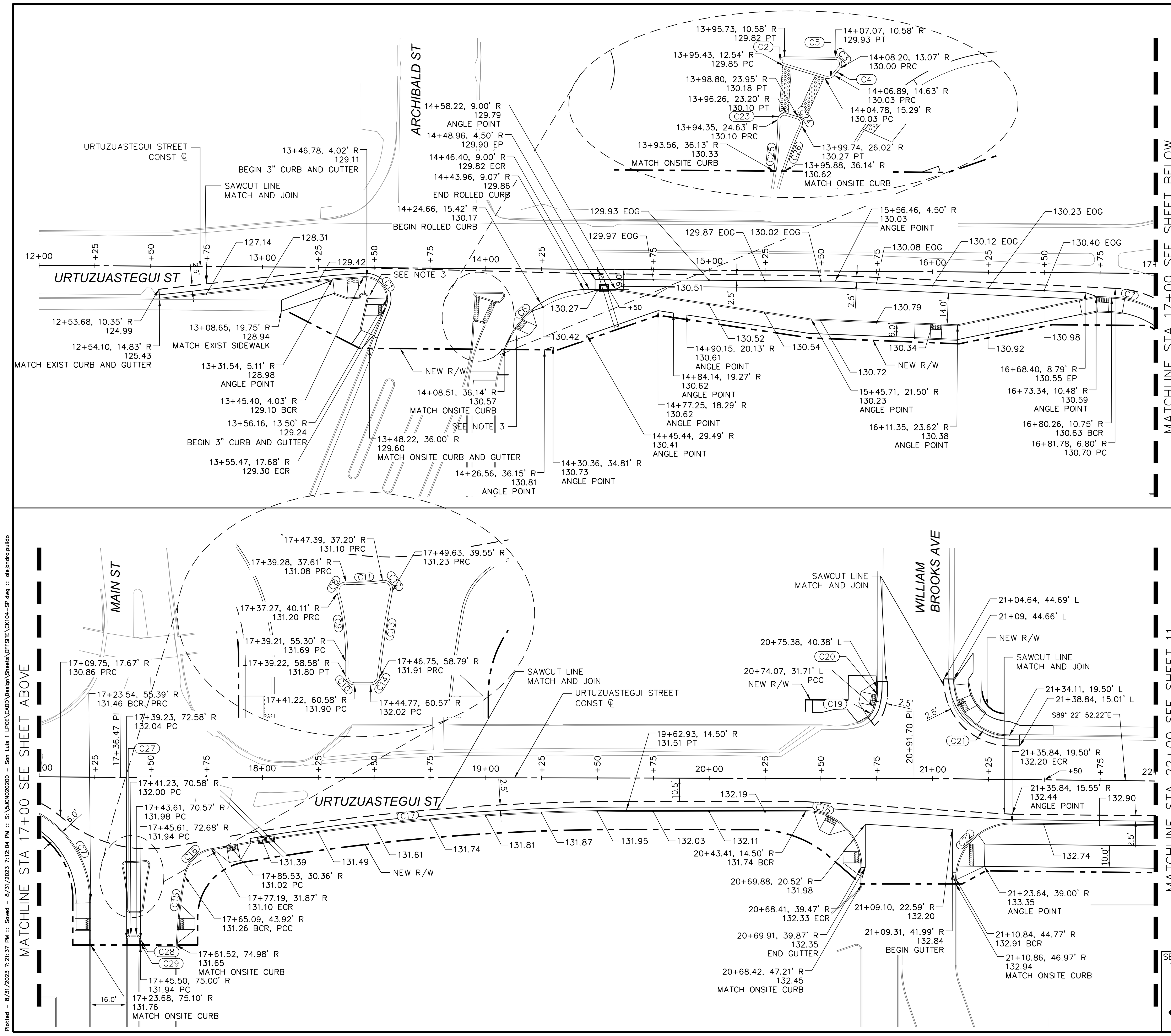
0 10 20 40 60

SEAL

DRAFT

PSOMAS		333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300
SCALE: 1"=20'	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
DEMOLITION PLAN		9 OF: 38

Plotted: 8/31/2023 6:57:28 PM :: Saved: 8/31/2023 5:52:41 PM :: S:\SJON020200 - San Luis 1 LPOE\CADD\Design\Sheets\OFFSITE\CK103-SP.dwg :: alejandro.pulido



SHEET NOTES

CURVE TABLE				
Curve #	Length	Radius	Delta	Tangent
C1	20.25	10.00	116°02'35"	16.02
C2	2.86	1.00	163°36'42"	6.94
C3	3.43	1.50	131°02'54"	3.30
C4	2.04	57.00	2°02'46"	1.02
C5	2.35	2.00	67°23'10"	1.33
C6	49.74	40.00	71°14'49"	28.66
C7	68.64	45.00	87°23'38"	43.00
C8	3.72	2.00	106°35'28"	2.68
C9	15.35	61.00	14°25'05"	7.72
C10	3.14	2.00	90°00'18"	2.00
C11	8.13	46.50	10°01'12"	4.08
C12	3.79	2.00	108°39'45"	2.79
C13	19.46	250.00	4°27'35"	9.73
C14	2.92	2.00	83°38'21"	1.79
C15	31.28	234.00	7°39'35"	15.66
C16	18.16	15.00	69°23'02"	10.38
C17	178.34	1000.00	10°13'06"	89.41
C18	39.24	25.00	89°55'20"	24.97
C19	6.52	11.20	33°22'23"	3.36
C20	8.81	25.00	20°11'55"	4.45
C21	39.54	25.00	90°37'31"	25.27
C22	39.54	25.00	90°37'08"	25.27
C23	2.77	1.50	105°46'45"	1.98
C24	2.58	1.50	98°22'17"	1.74
C25	11.54	100.00	6°36'35"	5.77
C26	10.83	80.92	7°40'16"	5.42
C27	3.14	2.00	89°59'42"	2.00
C28	3.25	2.00	93°09'59"	2.11
C29	2.32	250.00	0°31'52"	1.16

GEOMETRY PLAN NOTES:

1. XXX.XX = BACK OF CURB ELEVATION
2. XXX.XX EOG = EDGE OF GUTTER ELEVATION
3. SEE DETAILS FOR GEOMETRY POINTS

LEGEND

Know what's below. Call before you dig.

SCALE: 1"=20'

PSOMAS 333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300

SCALE: 1"=20' | APPROVED BY: | DRAWN: JV, RC, AP
DATE: 8/31/23 | C.I.P NO.

SAN LUIS I LAND PORT OF ENTRY OFFSITE

GEOMETRY PLAN

US GENERAL SERVICES ADMINISTRATION
50 UNITED NATIONS PLAZA
SAN FRANCISCO, CA 94102-3434
www.GSA.gov

HENSEL PHELPS Plan. Build. Manage.
3125 E Wood Street, Suite 100
Phoenix, AZ 85040
480.383.8480
www.henselphelps.com

DESIGN-BUILDER

JONES STUDIO

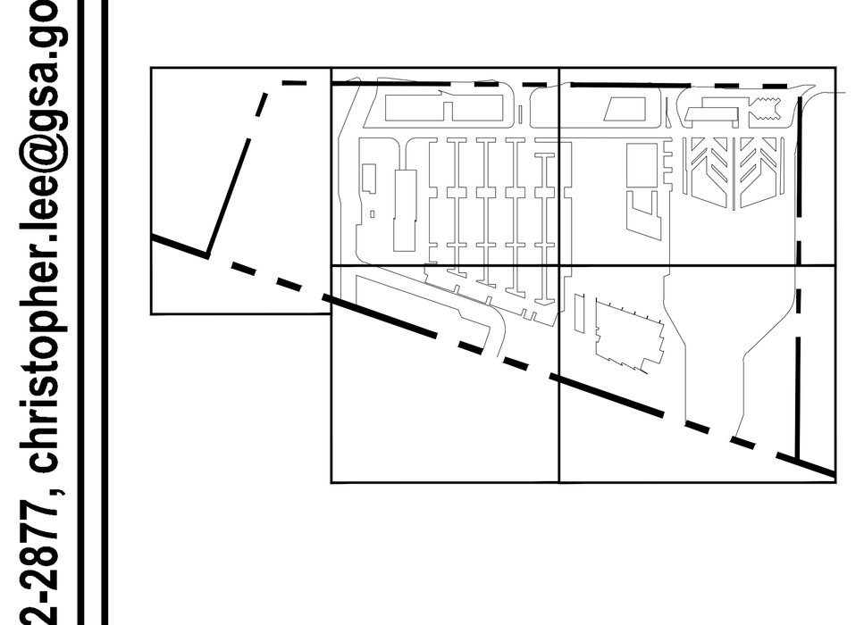
ARCHITECT OF RECORD

GRUENASSOCIATES ARCHITECTURE PLANNING INTERIORS LANDSCAPE
6330 San Vicente Boulevard, Suite 200, Los Angeles, CA 90048
www.gruenassociates.com T 323 937-4270 F 323 937-6001

ASSOCIATE ARCHITECT

PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
619.961.2800
www.psomas.com

CONSULTANT

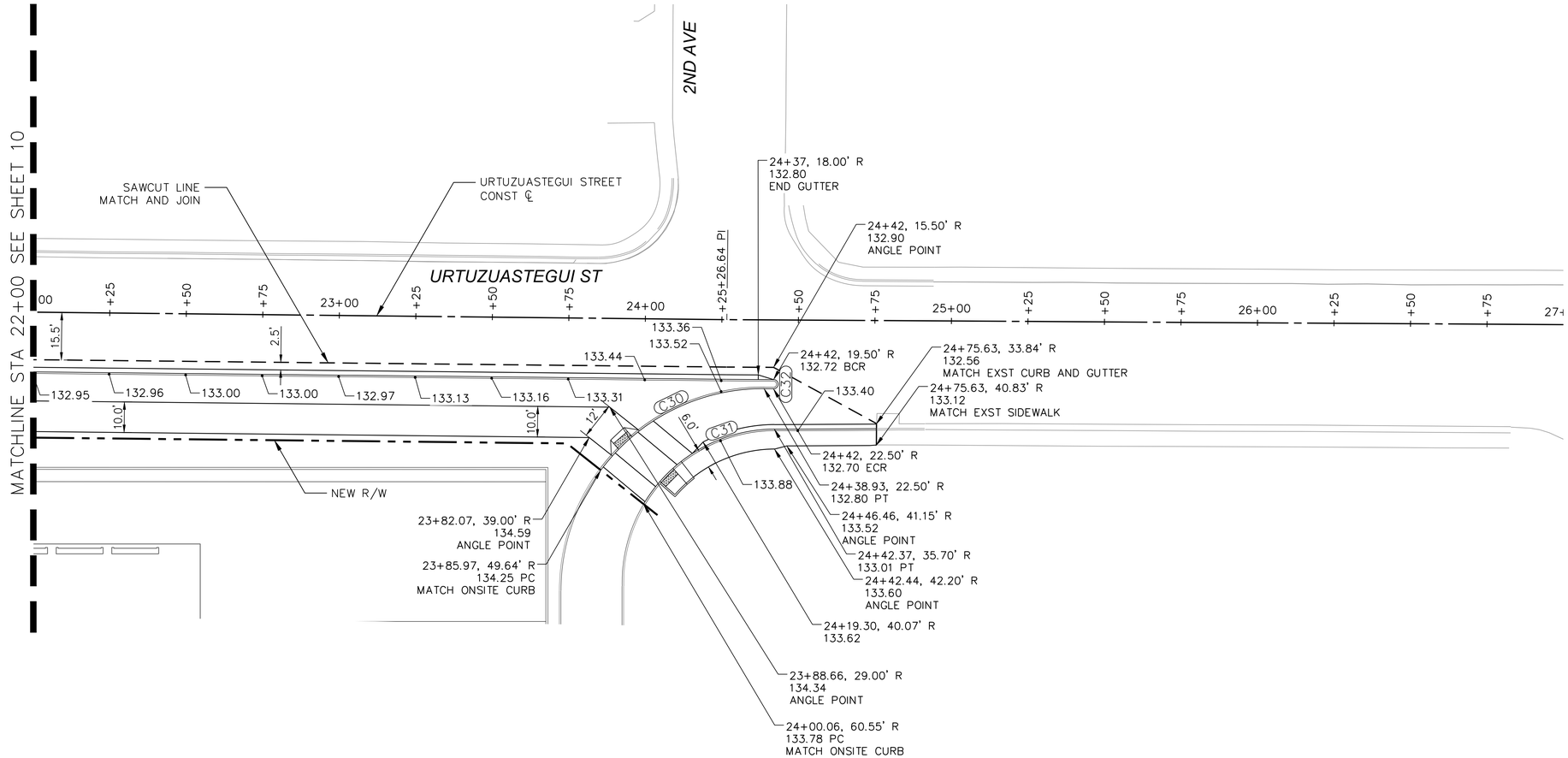


1"=20'-0" 0 20' 40'

Mark	Date	Description

PRIME CONTR. NO.	
PRIME ORDER NO.	
CONST. CONTR. NO.	47PK0122C0005
A/E	JONES STUDIO, INC. / GRUEN ASSOCIATES
SUB A/E	Psomas
DESIGN-BUILDER	HENSEL PHELPS
BUILDING NUMBER	N/A
BUILDING NAME	N/A
ADDRESS	XXX
CITY/ST/ZIP	XXX
BIM FILE NAME	N/A
PROJECT TITLE	SAN LUIS I LAND PORT OF ENTRY
PROJECT DESCRIPTION	EXPANSION & MODERNIZATION PROJECT
GSA PM	
GSA PROJECT NO	
SUBMISSION STAGE	OFFSITE
SUBMISSION DATE	09/11/23
DRAWN BY	RANDY CHENEY — DATE DRAWN: MAR 2023
CHECKED BY	JOE VASKOVIC — SHEET SIZE: 36 X 48
FLOOR NUMBER	N/A
DISCIPLINE	CIVIL
DRAWING TITLE	GEOMETRY PLAN
SHEET NUMBER	CK104-SP

True North
Plan North



SHEET NOTES

CURVE TABLE				
Curve #	Length	Radius	Delta	Tangent
C30	61.88	66.00	53°43'10"	33.43
C31	51.50	50.00	59°01'02"	28.30
C32	4.71	1.50	180°00'00"	INF

GEOMETRY PLAN NOTES:

1. XXX.XX = BACK OF CURB ELEVATION
2. XXX.XX EOG = EDGE OF GUTTER ELEVATION

LEGEND

SCALE: 1"=20'

0 20 60
10 40

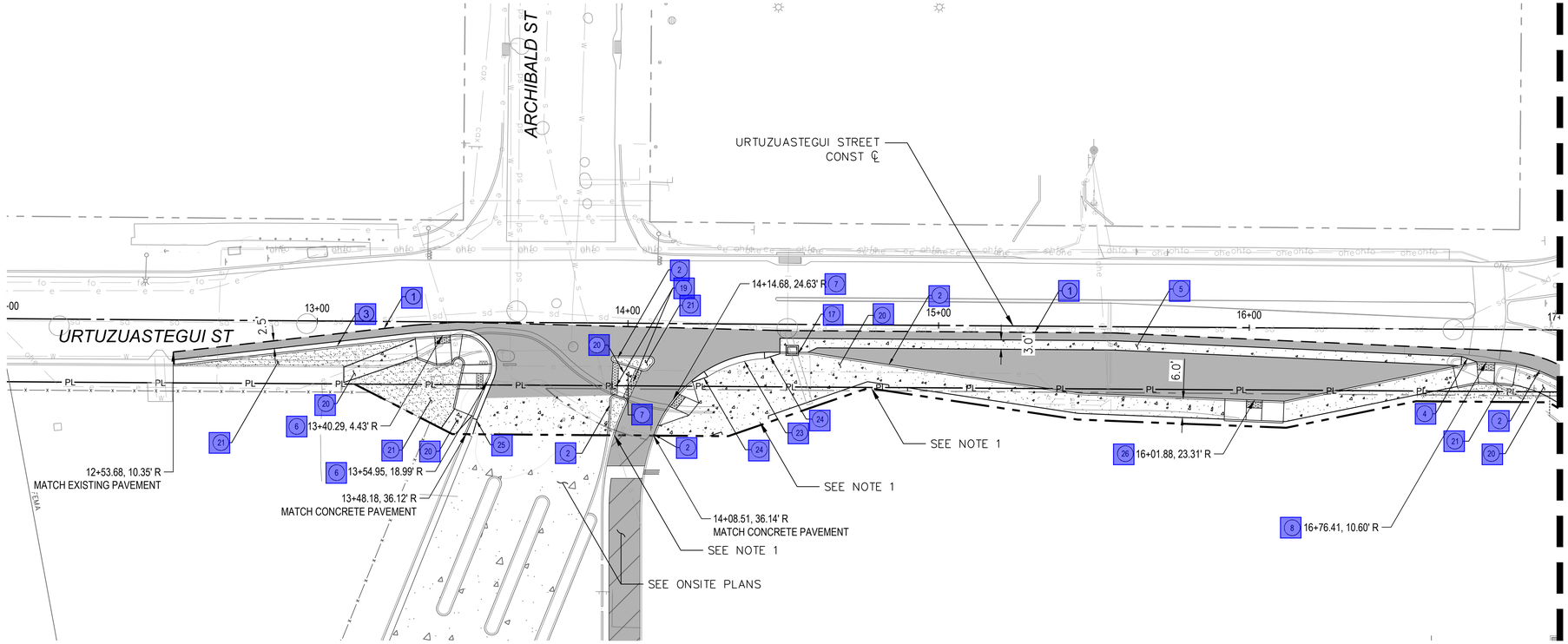
811

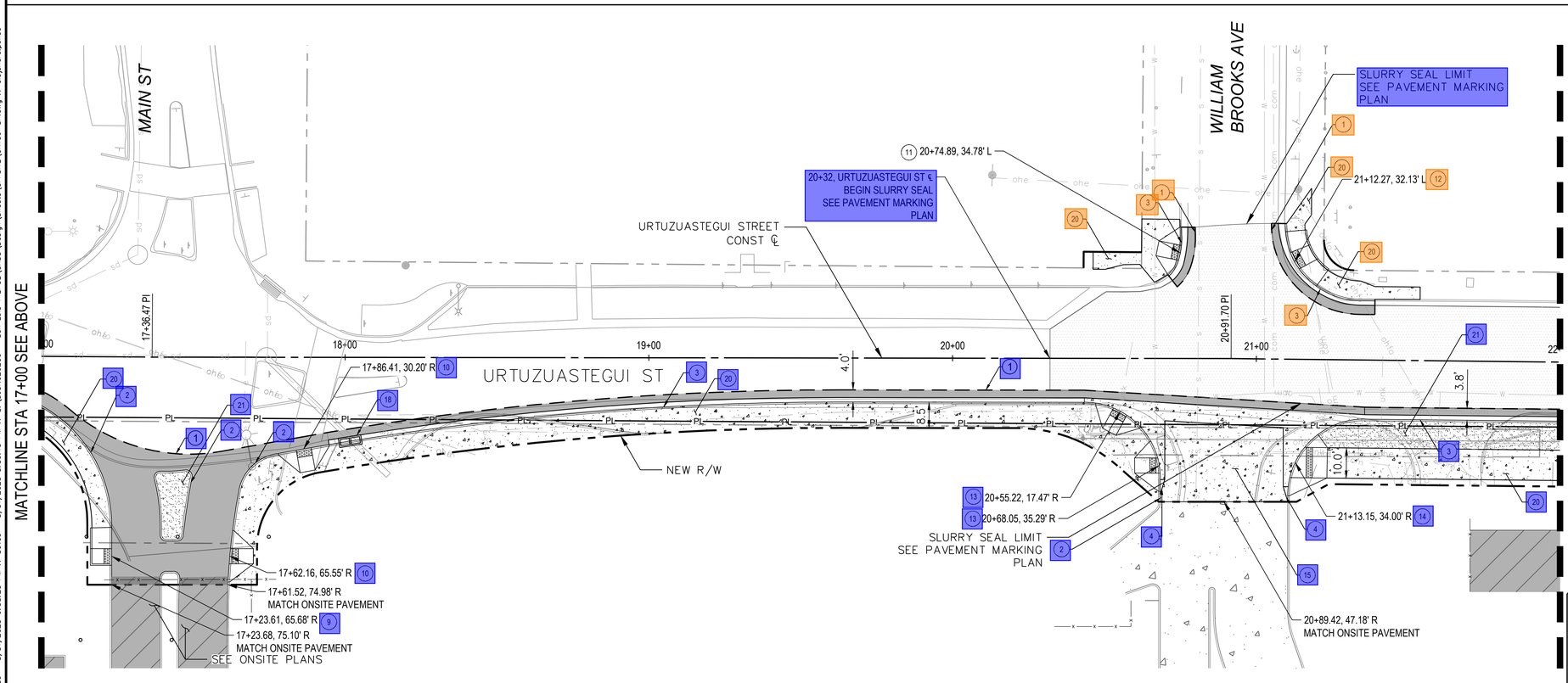
SEAL

DRAFT

PSOMAS	333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300
SCALE: 1"=20'	APPROVED BY:
DRAWN: JV, RC, AP	
DATE: 8/31/23	C.I.P. NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE	
GEOMETRY PLAN	11 OF: 38

Plotted - 8/31/2023 6:57:57 PM :: Saved - 8/31/2023 5:54:05 PM :: S:\SJON020200 - San Luis 1 LPOE\CADD\Design\Sheets\OFFSITE\CX105-SP.dwg :: alejandro.pulido





SHEET NOTES

1. SAW CUT TACK AND JOIN.
2. CONSTRUCT 6" CONCRETE CURB PER COY STD. 3-075.
3. CONSTRUCT 6" CONCRETE CURB AND GUTTER PER COY STD. 3-060.
4. CONSTRUCT CURB AND GUTTER TRANSITION PER ADOT TYPE 7 C-05.12.
5. CONSTRUCT 3' VALLEY GUTTER PER COY STD. 3-090 AND DETAIL ON TYPICAL SECTION SHEET 4.
6. CONSTRUCT CURB RAMP SEE DETAIL R1.
7. CONSTRUCT CURB RAMP SEE DETAIL R2.
8. CONSTRUCT CURB RAMP SEE DETAIL R3.
9. CONSTRUCT CURB RAMP SEE DETAIL R4.
10. CONSTRUCT CURB RAMP SEE DETAIL R5.
11. CONSTRUCT CURB RAMP SEE DETAL R6.
12. CONSTRUCT CURB RAMP SEE DETAIL R7.
13. CONSTRUCT CURB RAMP SEE DETAIL R8.
14. CONSTRUCT CURB RAMP SEE DETAIL R9.
15. CONSTRUCT CONCRETE VALLEY GUTTER DRIVEWAY PER COY STD. 3-085.
16. CONSTRUCT PEDESTRIAN SPEED TABLE PER COY STD. 3-205.
17. CONSTRUCT CATCH BASIN 1 SEE STORM DRAIN PLAN SHEET 14.
18. CONSTRUCT CATCH BASIN 2 SEE STORM DRAIN PLAN SHEET 14.
19. CONSTRUCT TRUNCATED DOMES IN SIDEWALK PER MAG DET. 238-1 THROUGH 238-4.
20. CONSTRUCT SIDEWALK PER COY STD. 3-135.
21. INSTALL DECOMPOSED GRANITE PER MAG DET. 607-1.
22. CONSTRUCT CURB RAMP SEE DETAIL R10.
23. CONSTRUCT NEW ROLLED CURB TYPE D PER MAG DETAIL 220-1.
24. CONSTRUCT NEW CURB TO ROLLED CURB TRANSITION PER MAG DETAIL 221.
25. CONSTRUCT CURB AND GUTTER TRANSITION PER COY STD. 3-100.
26. CONSTRUCT PARALLEL CURB RAMP PER MAG DETAIL 238-3

PAVEMENT PLAN NOTES:
1. SEE ON-SITE PLANS FOR DETAILS.

SCALE: 1"=20'
0 20 60
10 40

Know what's **below.** **Call** before you dig.
811

LEGEND

- CONCRETE PAVEMENT (SEE ONSITE PLANS FOR ONSITE LIMITS AND DETAIL A1 SHEET 33 FOR OFFSITE LIMITS), CONCRETE SIDEWALK.
- AC PAVEMENT (SEE DETAIL A2 SHEET 33).
- SLURRY SEAL EXISTING PAVEMENT.
- DG FILLED AREA, SEE ONSITE LANDSCAPE PLANS.
- UTILITY EASEMENT LINE
- R/W LINE

SEAL

DRAFT

PSOMAS
333 E WETMORE ROAD, SUITE 450
TUCSON, AZ 85705
520.292.2300

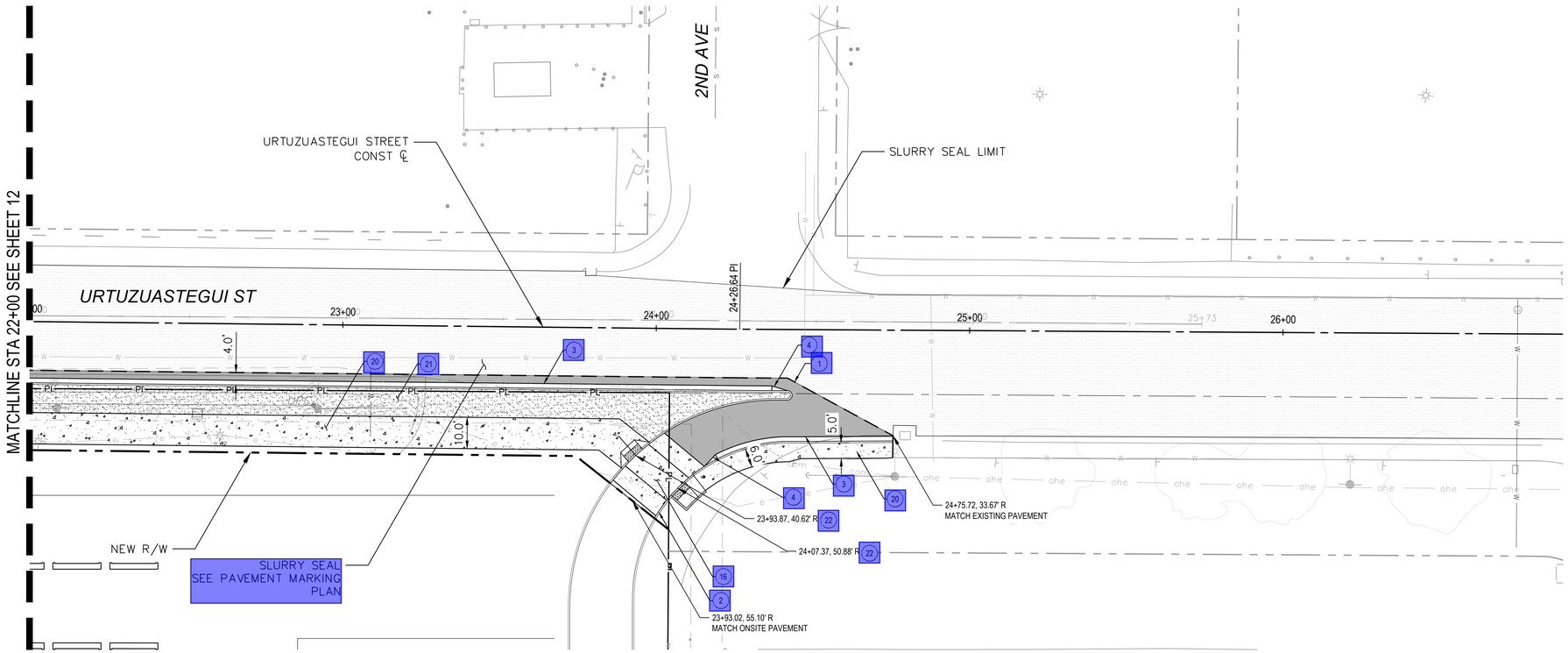
SCALE: 1"=20'	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.

SAN LUIS I LAND PORT OF ENTRY OFFSITE

PAVEMENT PLAN

12 OF: 38

Plotted – 8/31/2023 6:58:23 PM :: Saved – 8/31/2023 5:59:13 PM :: S:\SAN\020200 – San Luis 1 LPOE\CADD\Design\Sheets\OFFSITE\CK106-SP.dwg :: alejandro.pulido



SHEET NOTES

1. SAW CUT TACK AND JOIN.
2. CONSTRUCT 6" CONCRETE CURB PER COY STD. 3-075.
3. CONSTRUCT 6" CONCRETE CURB AND GUTTER PER COY STD. 3-060.
4. CONSTRUCT CURB AND GUTTER TRANSITION PER ADOT TYPE 7 C-05.12.
5. CONSTRUCT 3' VALLEY GUTTER PER COY STD. 3-090 AND DETAIL ON TYPICAL SECTION SHEET 4.
6. CONSTRUCT CURB RAMP SEE DETAIL R1.
7. CONSTRUCT CURB RAMP SEE DETAIL R2.
8. CONSTRUCT CURB RAMP SEE DETAIL R3.
9. CONSTRUCT CURB RAMP SEE DETAIL R4.
10. CONSTRUCT CURB RAMP SEE DETAIL R5.
11. CONSTRUCT CURB RAMP SEE DETAL R6.
12. CONSTRUCT CURB RAMP SEE DETAIL R7.
13. CONSTRUCT CURB RAMP SEE DETAIL R8.
14. CONSTRUCT CURB RAMP SEE DETAIL R9.
15. CONSTRUCT CONCRETE VALLEY GUTTER DRIVEWAY PER COY STD. 3-085.
16. CONSTRUCT PEDESTRIAN SPEED TABLE PER COY STD. 3-205.
17. CONSTRUCT CATCH BASIN 1 SEE STORM DRAIN PLAN SHEET 14.
18. CONSTRUCT CATCH BASIN 2 SEE STORM DRAIN PLAN SHEET 14.
19. CONSTRUCT TRUNCATED DOMES IN SIDEWALK PER MAG DET. 238-1 THROUGH 238-4.
20. CONSTRUCT SIDEWALK PER COY STD. 3-135.
21. INSTALL DECOMPOSED GRANITE PER MAG DET. 607-1.
22. CONSTRUCT CURB RAMP SEE DETAIL R10.
23. CONSTRUCT NEW ROLLED CURB TYPE D PER MAG DETAIL 220-1.
24. CONSTRUCT NEW CURB TO ROLLED CURB TRANSITION PER MAG DETAIL 221.
25. CONSTRUCT CURB AND GUTTER TRANSITION PER COY STD. 3-100.
26. CONSTRUCT PARALLEL CURB RAMP PER MAG DETAIL 238-3

PAVEMENT PLAN NOTES:
1. SEE ON-SITE PLANS FOR DETAILS.

SCALE: 1"=20'
0 20 60
10 40

Know what's **below.**
Call before you dig.
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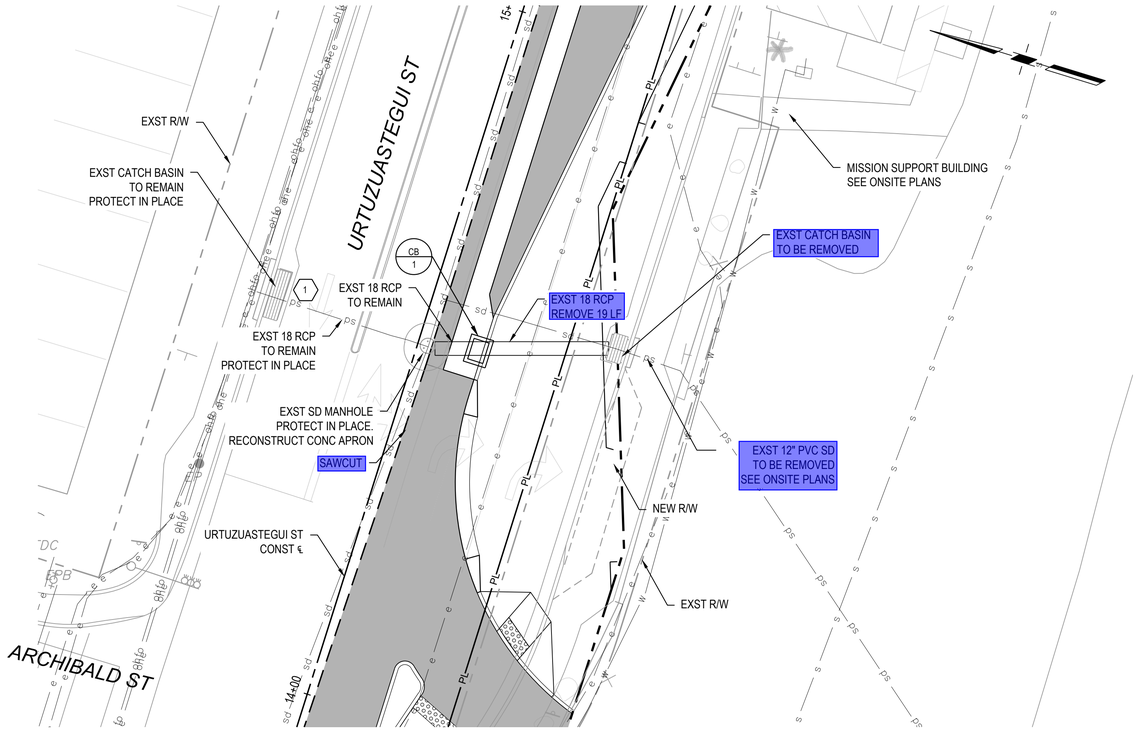
LEGEND

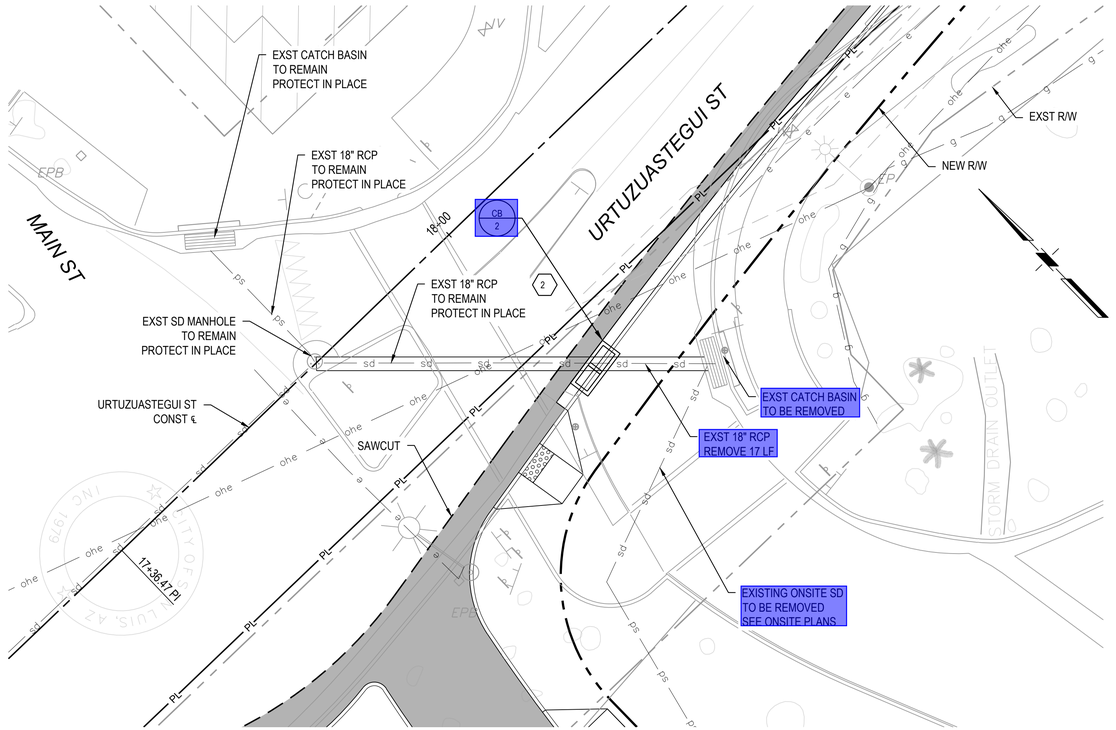
- CONCRETE PAVEMENT (SEE ONSITE PLANS FOR ONSITE LIMITS AND DETAIL A1 SHEET 33 FOR OFFSITE LIMITS), CONCRETE SIDEWALK.
- AC PAVEMENT (SEE DETAIL A2 SHEET 33).
- SLURRY SEAL EXISTING PAVEMENT.
- DG FILLED AREA, SEE ONSITE LANDSCAPE PLANS.
- UTILITY EASEMENT LINE
- NEW LINE

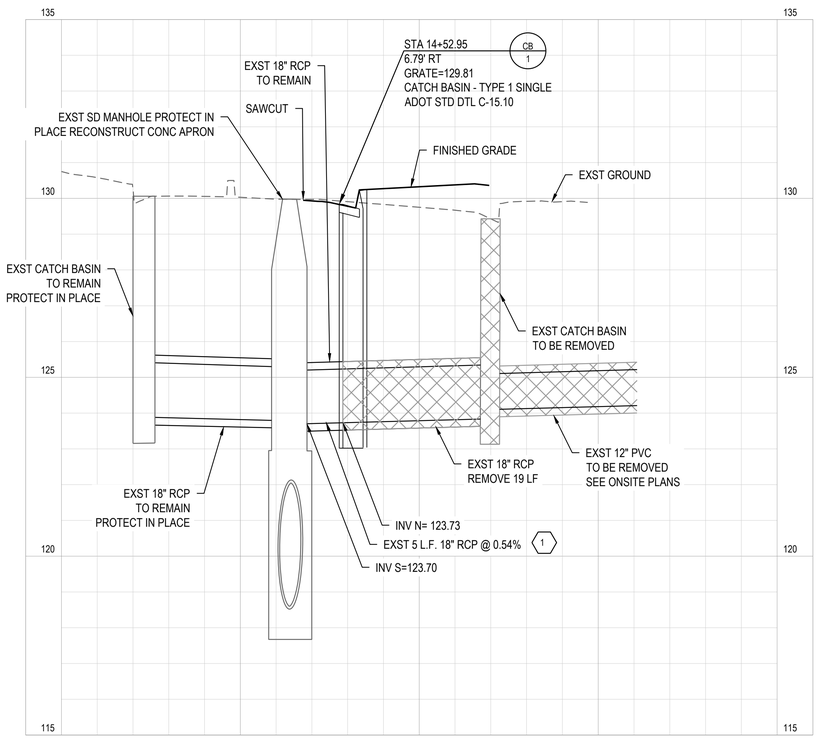
SEAL

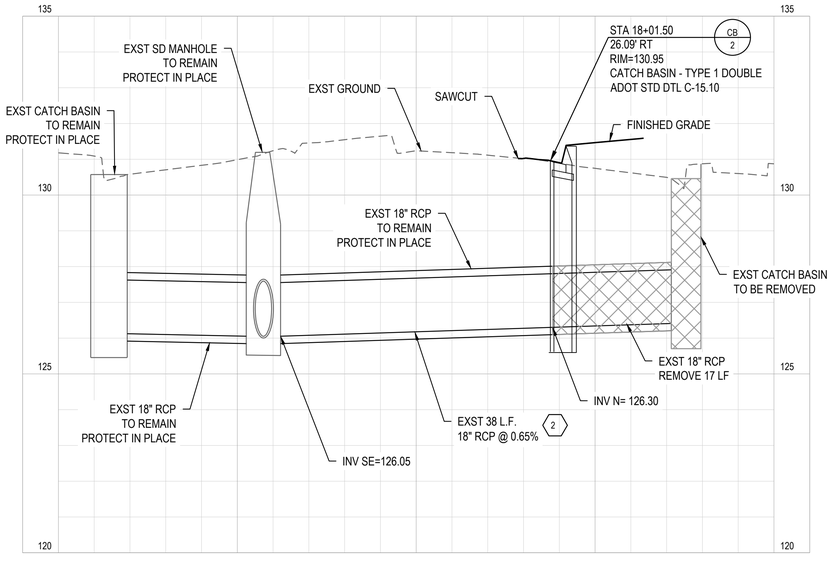
DRAFT

PSOMAS		333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300
SCALE: 1"=20'	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P. NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
PAVEMENT PLAN		13 OF: 38









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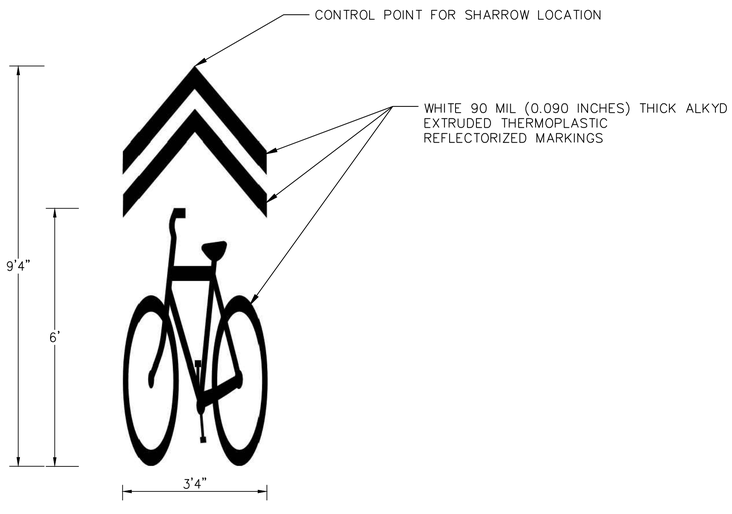
PSOMAS		333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300
SCALE: 1"=10'	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
STORM DRAIN PLAN		14 OF: 38

PAVEMENT MARKING NOTES:

1. THE CONTRACTOR SHALL BE REPONSIBLE 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 (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 ADOT STD. DRWGS. THEY SHALL BE INSTALLED WITH BITUMINOUS ADHESIVE WHICH IS ON THE ADOT 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 AN 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 715, 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 I 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 (2009 MUTCD), THE 2012 ARIZONA SUPPLEMENT , ADOT 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 ADOT SPECIFICATIONS. SEE SECTION 1007 IN THE SPECIFICATIONS.
6. ALL NEW SIGNS SHALL BE INSTALLED ON SQUARE TUBE POSTS WITH FOUNDATIONS AS INDICATED IN ADOT DWG. S-1.
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)-341-8599 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 0.125 TREATED ALUMINUM GAUGE WITH CUTTABLE FILM OR SILK SCREEN INKS WITH 1160 PROTECTIVE FILM.



SHARROW DETAIL
NTS

Know what's **below.** **Call** before you dig.

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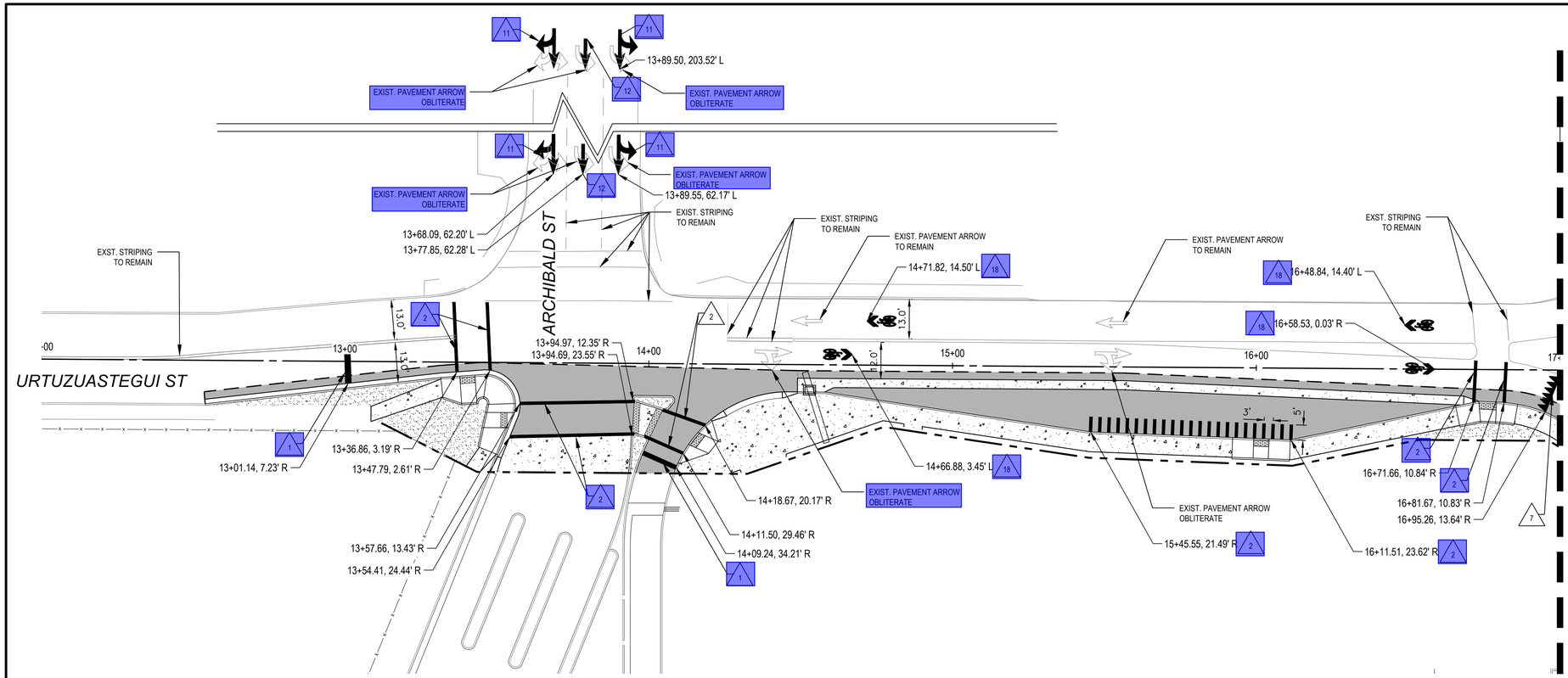
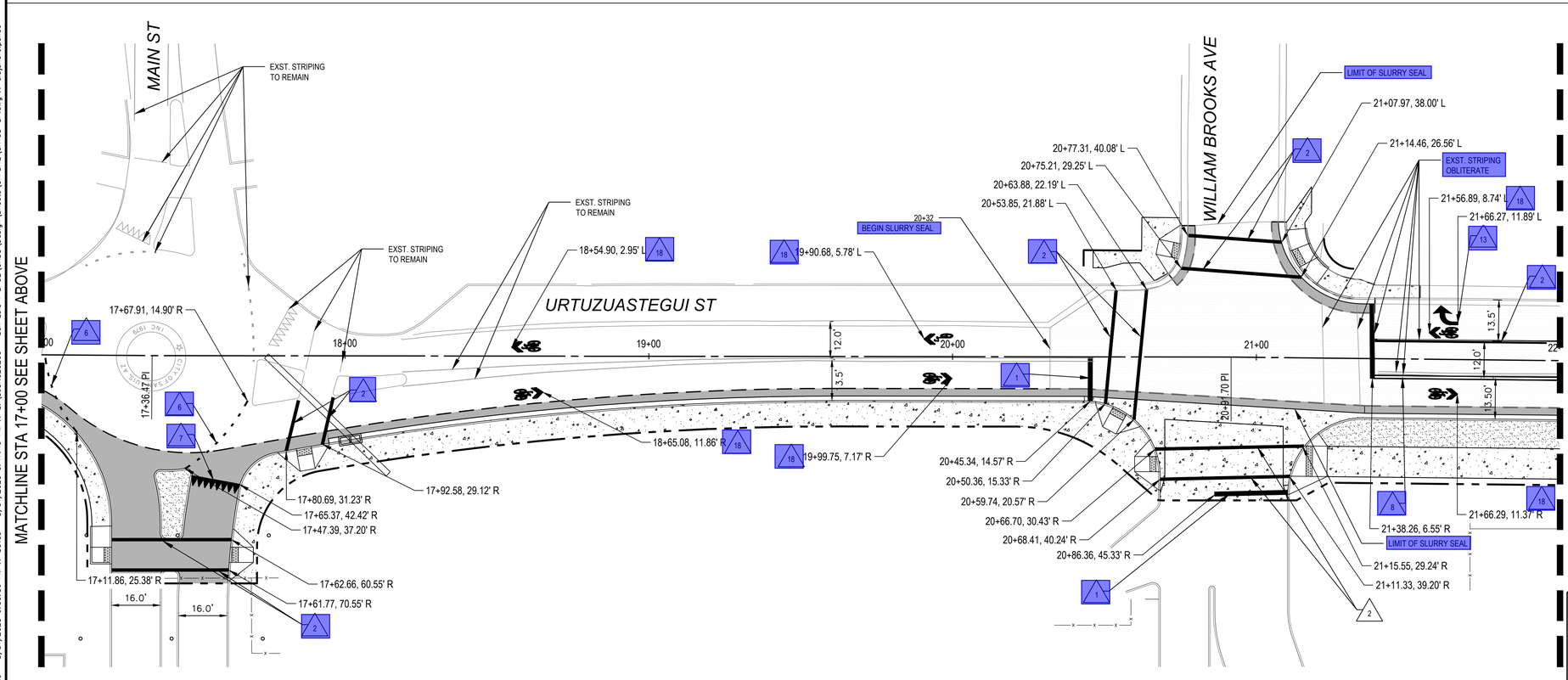
SEAL

DRAFT

PSOMAS		333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300
SCALE: N/A	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
MARKING AND SIGNING NOTES		15 OF: 38





SHEET NOTES

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

LEGEND

SCALE: 1"=20'

0 20 60
10 40

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Registered Professional ENGINEER ARIZONA U.S.A.

PSOMAS

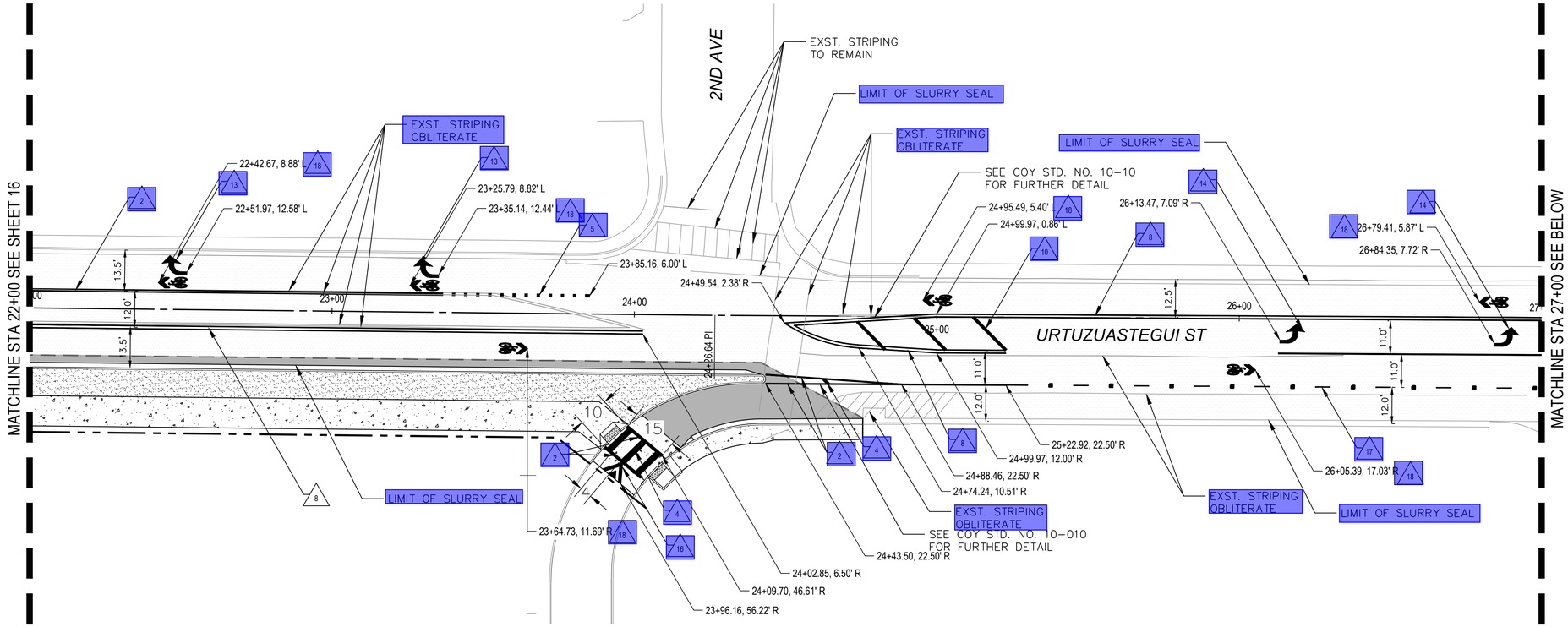
333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300

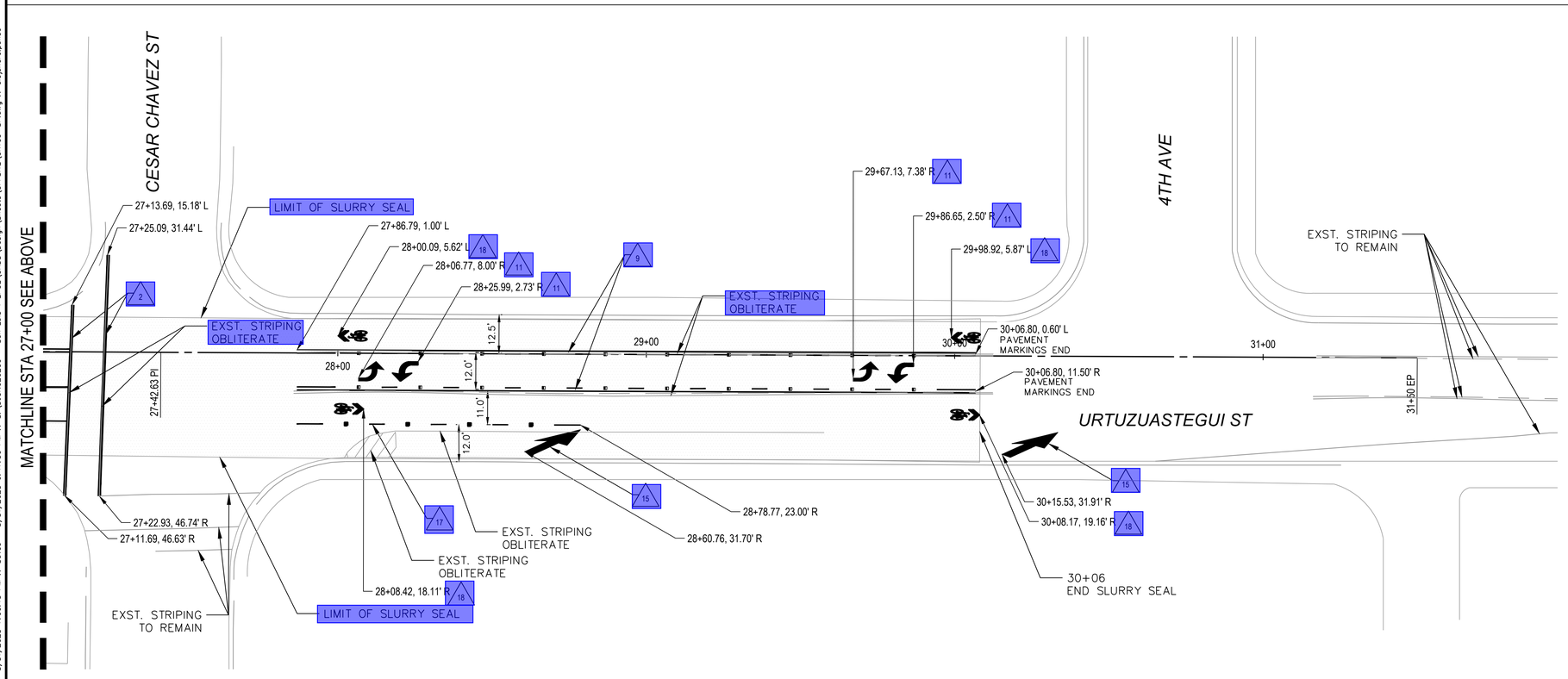
SCALE: 1"=20'	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.

SAN LUIS I LAND PORT OF ENTRY OFFSITE

PAVEMENT MARKING PLAN

16 OF: 38





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3	NO ITEM	L.F.
4	NEW 24" WHITE SOLID (24SW) PER COY STD. NO. 10-020 AND 10-025.	L.F.
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12	NEW STRAIGHT ARROW PER ADOT STANDARD DRAWING M-10	L.F.
13	NEW RIGHT ARROW PER ADOT STANDARD DRAWING M-10	L.F.
14	NEW LEFT ARROW PER ADOT STANDARD DRAWING M-10.	L.F.
15	NEW MERGING RIGHT TO LEFT PER ADOT STANDARD DRAWING M-11	L.F.
16	NEW 12" WHITE SOLID (12SW) PER COY STD. 3-205	L.F.
17	NEW 6" BROKEN WHITE PER COY STD. 10-205	L.F.
18	NEW "SHARROW". SEE DETAIL.	EA.
*	ALL STRIPING SHALL BE THERMOPLASTIC MARKING.	

LEGEND

SCALE: 1"=20'
0 10 20 40 60

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PSOMAS
333 E WETMORE ROAD, SUITE 450
TUCSON, AZ 85705
520.292.2300

SCALE: 1"=20'	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.

SAN LUIS I LAND PORT OF ENTRY OFFSITE

PAVEMENT MARKING PLAN — 17 OF: 38

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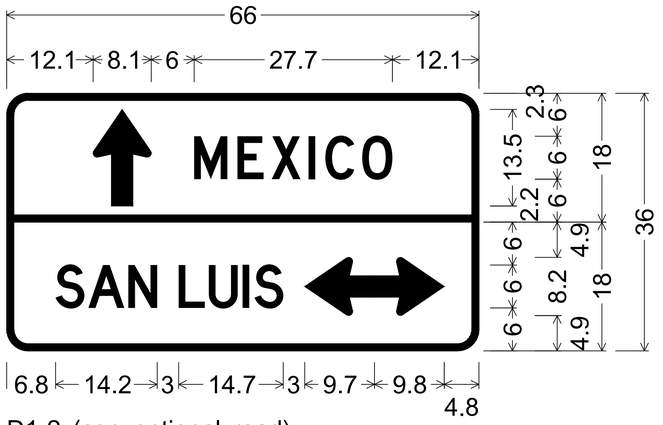
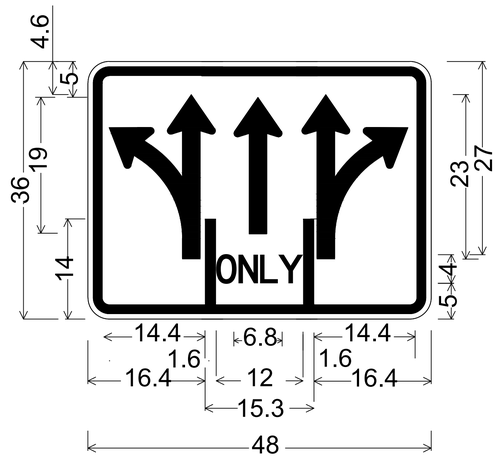


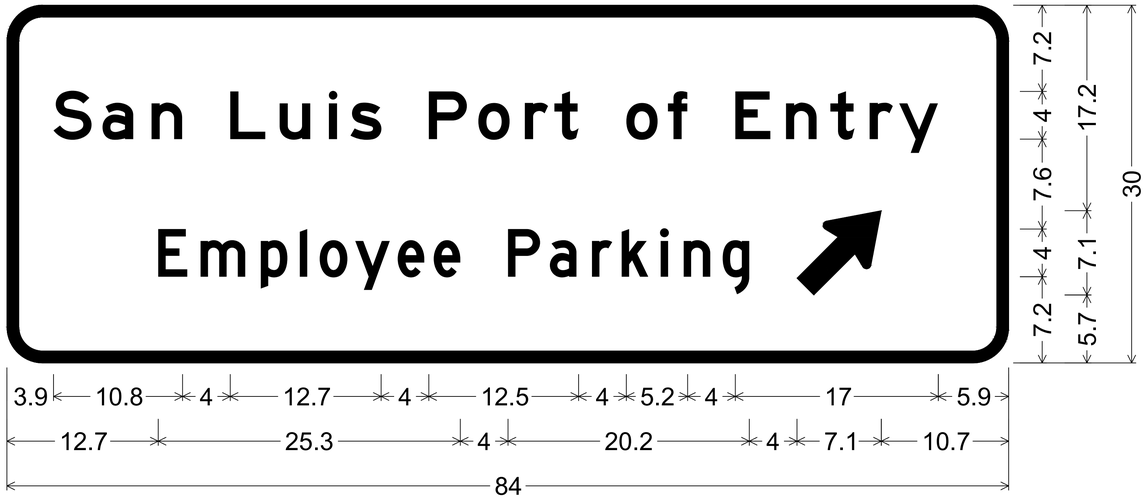
D1-2 (conventional road);

3.0" Radius, 1.0" Border, White on Green;
Arrow 6" Type D2 - 13.5" 90°;
"MEXICO", D;

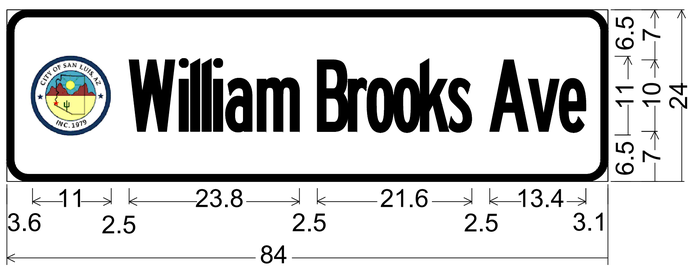
3.0" Radius, 1.0" Border, White on Green;
"SAN LUIS", D 50% spacing;
Arrow 6" Type D1 - 9.8" 180°;
Arrow 6" Type D1 - 9.8" 0°;



3.0" Radius, 1.3" Border, 0.7" Indent, LaneMarker height: 12.0 LaneMarker width: 1.5Black on White;
3.0" Radius, 1.3" Border, 0.8" Indent, Black on White;
"ONLY", D 2K specified length;
3.0" Radius, 1.3" Border, 0.8" Indent, LaneMarker height: 12.0 LaneMarker width: 1.5Black on White;



D8-102(conventional road);
3.0" Radius, 1.0" Border, White on Green;
"San Luis Port of Entry ", E; "Employee Parking", D;
Arrow 4" Type D2 - 9.0" 45°;



Metro OST;
3.0" Radius, 1.0" Border, White on Blue;
Rounded Rectangle 5.5" Radius; "William", Highway B 2K 160% spacing;
"Brooks", Highway B 2K; "Ave", Highway B 2K;

Metro OST;
3.0" Radius, 1.0" Border, White on Blue;
Rounded Rectangle 5.5" Radius; "Urtuzuastegui", Highway B 2K 160% spacing;
"St", Highway B 2K;

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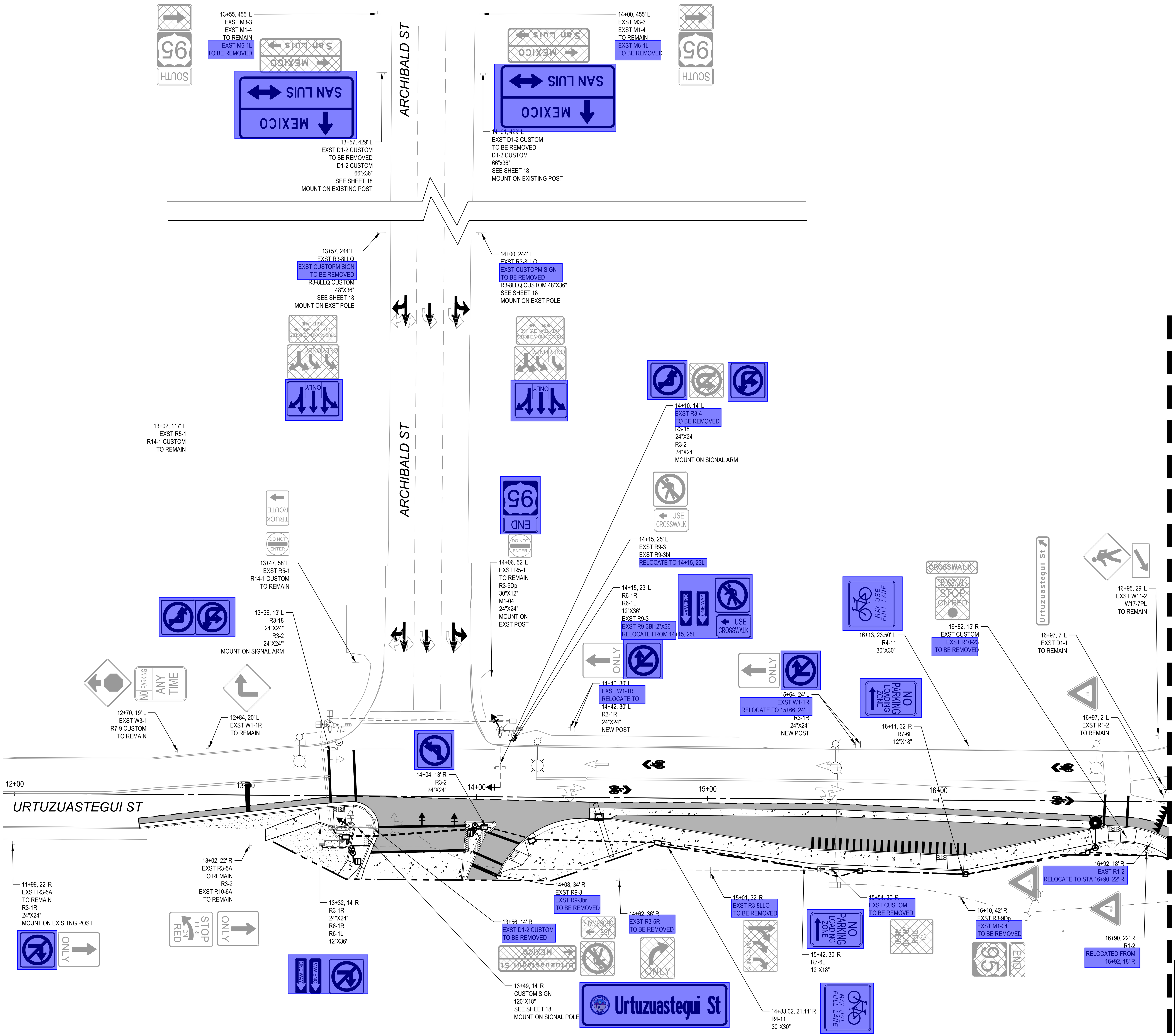
PSOMAS	333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300	
SCALE: N.T.S.	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
SIGNING LAYOUT		18 OF: 38



Plotted – 8/31/2023 7:00:49 PM :: Saved – 8/31/2023 6:37:24 PM :: San Luis 1 LPOE\CADD\Design\Sheets\OFFSITE\CX110-SP.dwg :: alejandro.pulido

SHEET NOTES

LEGEND

SCALE: 1"=20'

0 10 20 40 60

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PSOMAS		333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300
SCALE: 1"=20'	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
SIGNING PLAN		19 OF: 38

MAIN ST
URTUZUASTEGUI ST
WILLIAM BROOKS AVE
2ND AVE
MATCHLINE STA 17+00 SEE SHEET 19
MATCHLINE STA 22+00 SEE BELOW
MATCHLINE STA 22+00 SEE ABOVE
MATCHLINE STA 27+00 SEE SHEET 21
17+25, 69' L EXST W11-2 W17-7PL TO REMAIN
17+44, 82' L EXST R4-7 TO REMAIN
17+40, 38' L EXST R1-2 TO REMAIN
17+19, 42' L EXST R1-2 TO REMAIN
17+67, 53' L EXST W11-2 W17-7PL TO REMAIN
17+47, 37' L EXST D1-1 TO REMAIN
17+87, 19' L EXST R1-2 TO REMAIN
17+75, 6' R EXST R1-2 TO REMAIN
18+07, 11' L EXST W11-2 W17-7PL TO REMAIN
18+35, 21' L EXST R7-6 TO REMAIN
19+25, 24' L EXST R7-6 TO REMAIN
20+12, 25' L EXST R5-2 R5-4 TO REMAIN
20+66, 24' L EXST R9-3 TO BE REMOVED
20+55, 24' L EXST R9-2 TO BE REMOVED
20+64, 24' L EXST R9-3bP TO BE REMOVED
20+48, 13' L CUSTOM SIGN 84"X24" MOUNT ON TRAFFIC SIGNAL SEE SHEET 18
20+67, 67' L EXST M4-14 M3-1 M1-4 TO REMAIN
21+00, 36' L CUSTOM SIGN 84"X24" MOUNT ON TRAFFIC SIGNAL SEE SHEET 18
20+95, 36' L R3-2 24"X24" MOUNT ON TRAFFIC SIGNAL
21+12, 78' L EXST R8-3 TO REMAIN
21+12, 66' L EXST M4-14 M3-1 M1-4 TO REMAIN
21+11, 52' L R3-17 RELOCATED FROM 21+12, 46' L
21+12, 46' L EXST R3-17 RELOCATE TO 21+11, 52' L
21+32, 29' L D3-1 (2) R6-1R R1-1 TO BE REMOVED
21+32, 23' L R9-3 18"X18" R9-3BP 18"X12"
21+29, 18' R CUSTOM SIGN 84"X24" MOUNT ON TRAFFIC SIGNAL SEE SHEET 18
20+49, 8' L R3-2 24"X24" MOUNT ON TRAFFIC SIGNAL
17+72, 14' R EXST D1-1 RELOCATE FROM 17+74, 39' R
17+36.47 PI
17+39, 49' R CUSTOM 84"X30" SEE SHEET 18
17+68, 42' R EXST R1-2 RELOCATE FROM 18+20, 35' R
17+46, 39' R EXST R1-2 RELOCATE FROM 17+92, 36' R
17+74, 39' R EXST D1-1 RELOCATE TO 17+72, 14' R
17+77, 36' R EXST W11-2 W16-7P RELOCATED TO NEW POLE AFTER CONCRETE IS POURED
18+15, 59' R EXST W11-2 EXST W17-7PL TO BE REMOVED
18+18, 8' R EXST R4-7 TO REMAIN
18+20, 35' R EXST R1-2 RELOCATE TO 17+66, 42' R
18+84, 24' R EXST R7-305 CUSTOM TO BE REMOVED
17+92, 36' R EXST R1-2 RELOCATE TO 17+46, 39' R
19+20, 19' R R4-11 30"X30"
19+60, 25' R EXST R7-305 CUSTOM TO BE REMOVED
20+34, 18' R R1-1 R6-1L TO BE REMOVED
20+42, 18' R CUSTOM RELOCATE TO 20+38, 38' R
20+38, 38' R CUSTOM RELOCATE FROM 20+42, 18' R
20+71, 36' R R5-1 R1-1 TO BE REMOVED
20+91.70 PI
21+05, 38' R R5-1 R1-1 TO BE REMOVED
21+29, 6' R R3-2 24"X24" MOUNT ON TRAFFIC SIGNAL
21+37, 22' R R9-3 18"X18" R9-3bP 18"X12"
21+77, 32' R R1-1 TO BE REMOVED
Employee Parking
San Luis Port of Entry
William Brooks Ave
Urtuzuastegui St
Main St
A MEXICO
RUTA DE PEATONES
TO MEXICO
PEDESTRIAN WALKWAY
MAY USE FULL LANE
USE CROSSWALK
NO COMMERCIAL VEHICLES
NO PARKING IMMEDIATE LOADING AND UNLOADING ONLY
BIKE LANE
BEGIN NORTH 95
STOP
ONLY
RIGHT LANE
TO 195
INTERSTATE 8
2nd Ave
22+38, 26' L R3-5R 30"x36" R3-5F 30"x12"
23+35, 26' L R3-5R 30"x36" R3-5F 30"x12"
23+98, 36' L EXST D3-1 (2) R1-1 TO REMAIN
23+88, 33' L EXST M4-5 EXST M1-5b EXST M1-1 RELOCATE TO 26+10, 41' R EXST M6-1 TO BE REMOVED
24+26.64 PI
24+64, 21' L EXST S1-1 W16-7P TO BE REMOVED
25+94, 18' L R4-11 30"X30"
26+46, 19' L EXST S1-1 W16-9P TO BE REMOVED
AHEAD
22+28, 22' R EXST S1-1 W16-9P TO BE REMOVED
22+63, 23' R R4-11 30"X30"
22+97, 22' R EXST R9-3 TO BE REMOVED
22+79, 22' R EXST R7-1 CUSTOM TO REMAIN
23+92, 22' R W4-3 24"X24"
24+20, 51' R W4-3 24"X24"
24+44, 43' R EXST S1-1 W16-7P TO BE REMOVED
24+35, 47' R EXST R1-1 TO BE REMOVED
25+23, 41' R W9-2L 30"X30"
LANE ENDS MERGE LEFT
25+09, 42' R EXST R3-5dP CUSTOM TO BE REMOVED
26+32, 42' R EXST R3-5dP CUSTOM TO BE REMOVED
25+92, 42' R EXST S1-1 W16-9P TO REMAIN
26+75, 41' R EXST M4-5 EXST M1-5b EXST M1-1 RELOCATE FROM 23+88, 33' L M6-3 12"x9"
26+98, 47' R EXST S1-1 W16-7P TO REMAIN
NO PARKING ANY TIME
18+00
19+00
20+00
23+00
24+00
25+00
26+00
SCALE: 1"=20'
0 10 20 40 60
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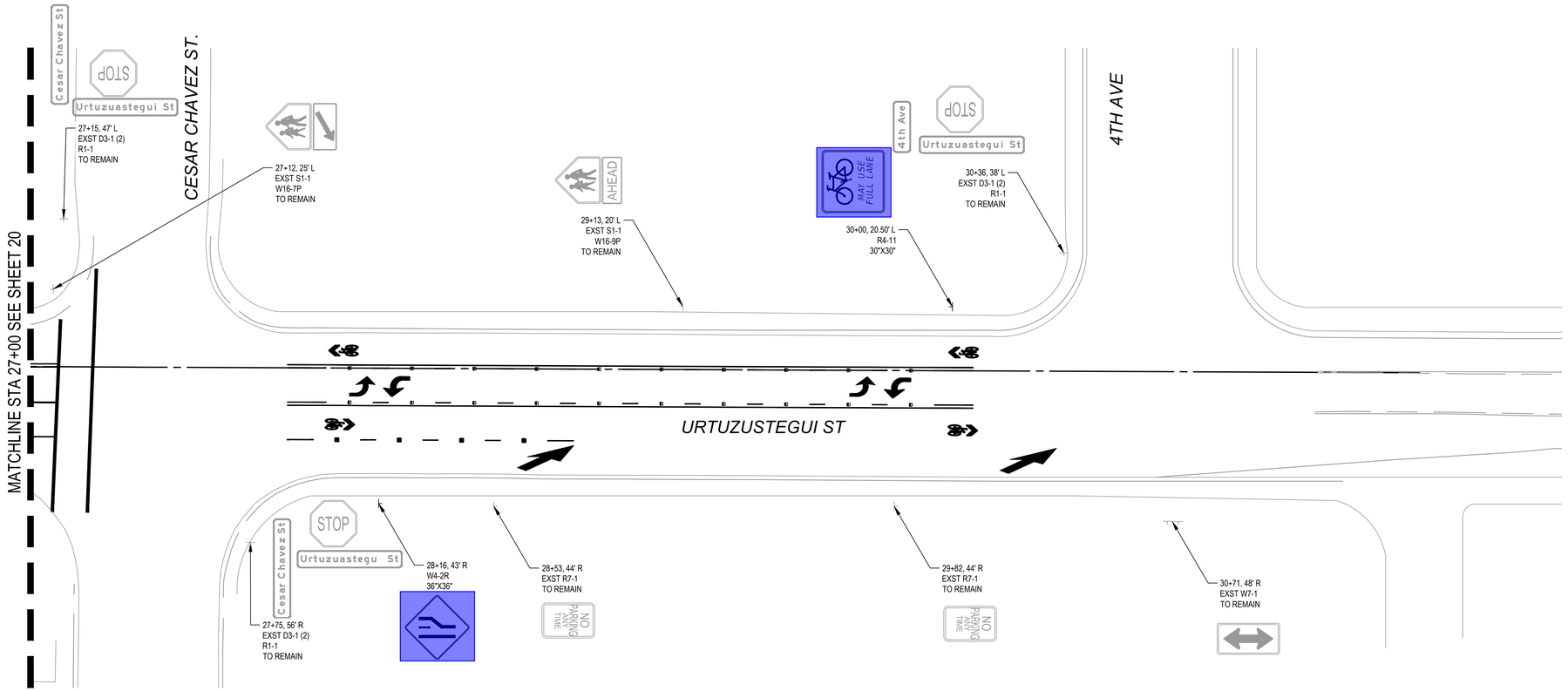
DRAFT

PSOMAS	333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300	
SCALE: 1"=20'	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
SIGNING PLAN		20 OF: 38



SHEET NOTES

LEGEND

SCALE: 1"=20'

0 20 60
10 40

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DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
SIGNING PLAN		21 OF: 38

TRAFFIC SIGNAL GENERAL NOTES:

1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO CITY OF YUMA CONSTRUCTION STANDARD DETAIL DRAWINGS (MAY 2019), ADOT 2021 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, AND 2017 NATIONAL ELECTRICAL CODE (NEC).

2. 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 PRIO TO ANY CONSTRUCTION. IF DISCREPANCIES EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL POTHOLE FOR UTILITIES. PRIOR TO INSTALLATION OF CONDUIT, THE CONTRACTOR SHALL POTHOLE FOR UTILITIES WHERE CONDUIT INSTALLATION SHALL CROSS EXISTING FACILITIES.

4. 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.

5. 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.

6. THE TRAFFIC SIGNAL CONTRACTOR MUST COORDINATE WORK WITH THAT OF ANY OTHER CONTRACTORS WITHIN OR ADJACENT TO PROJECT LIMITS.

7. 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.

8. 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.

9. FOR ELECTRICAL SERVICE REQUIREMENTS, CONTACT DANIEL BARRERA OF ARIZONA PUBLIC SERVICE (APS) COMPANY AT (928) 615-0431, A MINIMUM OF 7 WORKING DAYS BEFORE SERVICE IS REQUIRED.

10. 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.

11. 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.

12. ALL CONDUCTORS MUST BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

13. ALL SIGNAL HEAD, INCLUDING THOSE LOCATED ON TYPE A POLES, MUST BE SERVED FROM THE MAST ARM SIGNAL POLE ON THE ASSOCIATED CORNER.

14. ALL CABLES MUST SATISFY IMSA SPECIFICATION 19-1, AWG #14.

15. ALL DETECTORS MUST BE INSTALLED OR CONFIGURED, AND FUNCTIONAL, BEFORE THE DAY OF TURN-ON.

16. THE CONTRACTOR SHALL VERIFY ALL TRAFFIC SIGNAL POLE LOCATIONS WITH THE ENGINEER PRIOR TO INSTALLATION.

17. SIGNAL HEAD AIMING MUST BE AS DIRECTED BY THE CITY OF SAN LUIS SENIOR TRAFFIC TECHNICIAN.

18. 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).

19. 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 MIOVISION OR GRIDSMART WITH VIDEO IMAGE VEHICLE TRACKING AND DETECTION SYSTEM (V.I.V.T.D.S.).

20. 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.

21. 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.

22. 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.

23. ALL CONDUIT SWEEPS ENTERING TYPE 7 PULL BOXES WITH EXTENSIONS SHALL USE A 30 DEGREE SWEEP WITH A MINIMUM 36" RADIUS.

24. THE COST OF ALL CONDUIT STUB-OUTS IS INCIDENTAL TO THE COST OF THE ASSOCIATED PULL BOXES.

25. TRAFFIC CONTROL CHANGE AHEAD WARNING SIGNS SHALL BE INSTALLED WHEN TRAFFIC CONTROL TYPE 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.

26. ALL NEW TRAFFIC SIGNAL SHALL HAVE A 2" REFLECTIVE 3M DG3 SHEETING ON 5" WIDE LOUVERED BACKPLATES, PER ASTM TYPE XI.

27. 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
		#3½ 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
		CABLE TV LINE
		FIBER OPTIC LINE

ABBREVIATIONS

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

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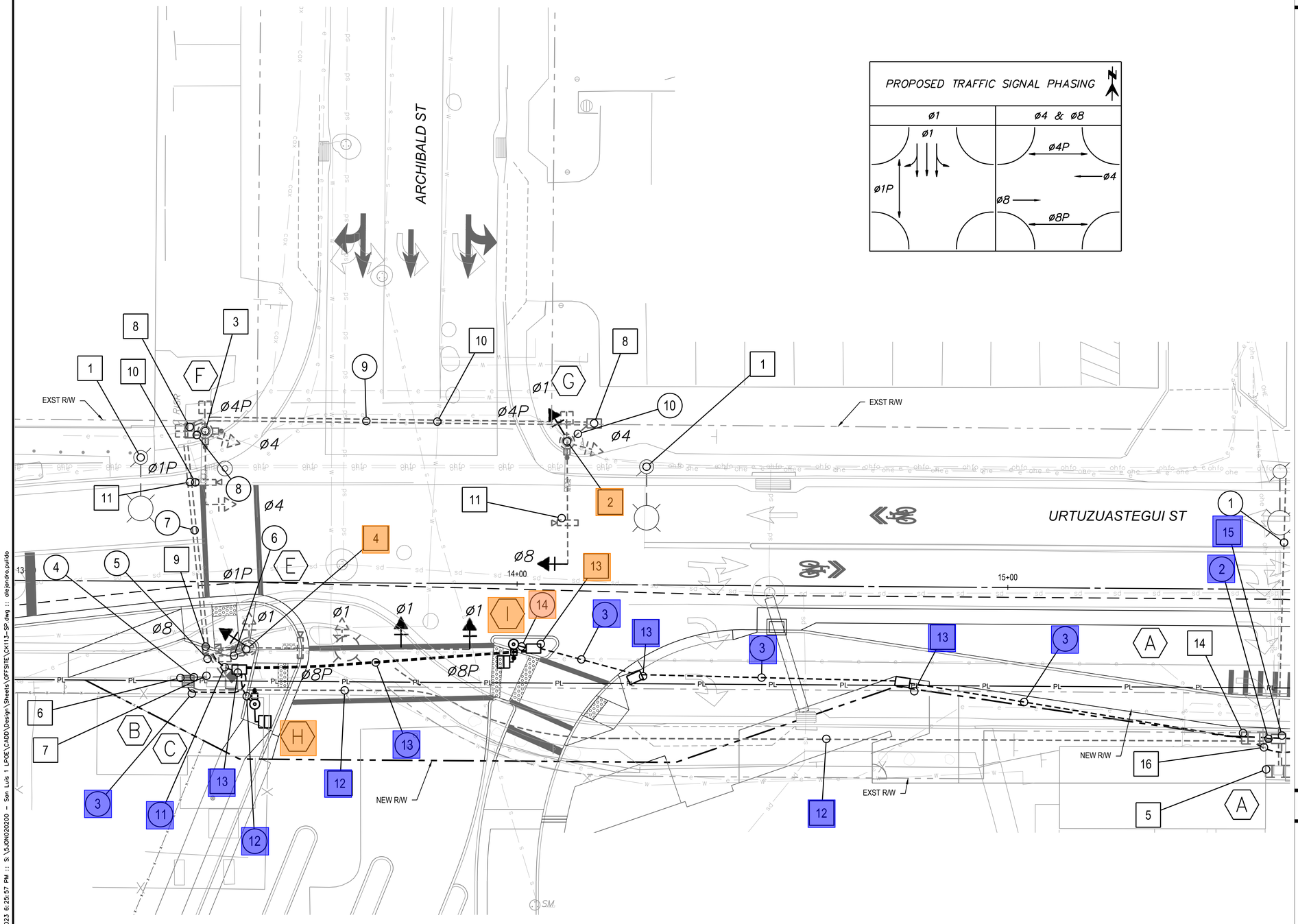
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
TRAFFIC SIGNAL NOTES		22 OF: 38



PROPOSED TRAFFIC SIGNAL PHASING

SHEET NOTES

KEYNOTES: THIS SHEET

1. Existing APS light to remain.
2. Existing Type 'K' pole, 25' signal MA, (2) pedestrian signals, (3) traffic signals, and (1) Ped PB to remain. Replace pole mount Type R traffic signal with Type F.
3. Existing Type 'K' pole, 15' signal MA, (2) pedestrian signals, (2) traffic signals, and (2) Ped PB to remain.
4. Existing Type 'R' pole, 45' signal MA, 20' luminaire MA, 250W horizontal mount light (cobra), (1) pedestrian signal, (5) traffic signals, and (1) Ped PB to remain. Replace (2) MA Type R traffic signals with Type F.
5. Existing Meter pedestal, 200A, 120/240V, 1 PH, 3 wire, to be relocated by APS.
6. Existing UPS cabinet to remain.
7. Existing ADOT Type IV traffic signal controller to remain.
8. Existing No. 7 pull box to remain.
9. Existing No. 7 pullbox with extension to remain.
10. Existing (2) 4" conduit to remain.
11. Existing camera mount on 4 ft extension fastened to signal mast arm via Pelco (or equal) clamp to remain.
12. Existing conduit and service lines, remove once new service conduit and conductors are in place.
13. New No. 7 pullbox.
14. Relocated service meter pedestal by APS.
15. Reset existing pullbox.
16. See Lighting Modification Plan.

LEGEND

SCALE: 1"=20'

0 10 20 40 60

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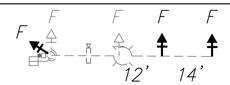
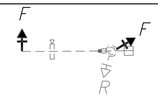
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
TRAFFIC SIGNAL PLAN		23 OF: 38

CABINET SCHEDULE

CABINET	TYPE	CONTROLLER	AUX CONTROLLER	REMARKS	STATION, OFFSET	STANDARDS
(A)	–	EXISTING METER PEDESTAL		APS TO RELOCATE	15+50.4, 30.2' Rt	T.S. 2-6 T.S. 3-5
(B)	–	EXISTING UPS CABINET		TO REMAIN UNIT RATED 5 KW, 120/240V 1 PH IN NEMA 3R ENCLOSURE	13+31.4, 20.3' Rt	T.S. 2-7
(C)	IV	EXISTING MPS 8 PHASE MENU MENU DRIVEN WITH LCD ECONOLITE ASC-13 TS2 TYPE 2/TSI		TO REMAIN PEC MOUNTED ON CONTROLLER CABINET. ELEVATOR PAD PRESENT	13+38.8, 19.5' Rt	T.S. 2-4 T.S. 3-9 T.S. 3-10

POLE SCHEDULE

POLE		MAST ARMS		SIGNALS		LUMINAIRE	PED. P.B. TYPE/SIGN	REMARKS	STATION, OFFSET
NUMBER	TYPE	SIG	LUM	FACE	ASSEMBLY				
(E) 	EXST R	45	20 FT	EXST (2) – F NEW (3) – F EXST (1) – PED	EXIST (3) – II EXST (2) – VII EXST (1) – XI	EXST 250W	EXST TYPE 1 2" ADA PB PPB SIGN R10-3b(L)	EXISTNG VIDEO CAMERA	(E) 13+44.9, 13.8' Rt
(F) 	EXST K	15	–	EXST (2) – R EXST (2) – PED	EXIST (1) – II EXST (1) – VII EXST (2) – XI	–	EXST (2) TYPE 1 2" ADA PB PPB SIGN R10-3b(L) & (R)	EXISTING VIDEO CAMERA	(F) 13+36.2, 30.7' Lt
(G) 	EXST K	25	–	NEW (2) – F EXST (1) – R EXST (1) – PED	EXST (1) – II EXIST (1) – VII EXST (1) – XI	–	EXST TYPE 1 2" ADA PB PPB SIGN R10-3b(L)	EXISTING VIDEO CAMERA	(G) 14+10.0, 29.1' Lt
(H) 	NEW A (10')	–	–	NEW (1) PED	NEW (1) – XI	–	NEW TYPE 1 2" ADA PB PPB SIGN R10-3b(L)	–	(H) 13+46.7, 22.1' Rt
(I) 	NEW A (10')	–	–	NEW (1) PED	NEW (1) – XI	–	NEW TYPE 1 2" ADA PB PPB SIGN R10-3b(L)	–	(I) 13+99.4, 12.3' Rt

SHEET NOTES

POLE SCHEDULE NOTE

THE CONTRACTOR SHALL PREPARE SIGNED AND SEALED SHOP DRAWINGS FOR ALLL TRAFFIC SIGNAL POLES, MAST ARMS, AND FOUNTATIONS TO SUPPORT THE LOAD SHOWN ON THESE PLANS AND TO THE STANDARDS DRAWINGS. DESIGN OF SIGNALS SHALL BE COMPLIANT WITH THE 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 6TH EDITION. SHOP DRAWINGS SHALL BE SUBMITTED TO THE SENIOR TRAFFIC TECHNICIAN FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

NOTES

1. THE EXISTING TRAFFIC SIGNAL WAS CONSTRUCTED FOLLOWING THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) SIGNALS AND LIGHTING STANDARD (SLS) DRAWINGS, 2010. REFERENCE IS MADE TO THESE STANDARD DETAILS.

LEGEND

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PSOMAS
333 E WETMORE ROAD, SUITE 450
TUCSON, AZ 85705
520.292.2300

SCALE: N.T.S.	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
TRAFFIC SIGNAL POLE SCHEDULE		24 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	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																																
#14 AWG IMSA 19–1 MULTI–CONDUCTOR CABLE		NO. OF CABLES																															
		NO. OF CONDUCTORES																															
	SIGNAL ø1			◇ NEW CONDUCTORS BY APS			EXST (3) IMSA CABLES POLES E, F, AND G NEW (3) IMSA CABLES TO POLES H, I, AND J	EXST (1) IMSA CABLES TO POLE E	EXST (2) IMSA CABLES POLES F AND G	EXST (1) IMSA CABLES TO POLE F	EXST (1) IMSA CABLES POLE G	EXST (1) IMSA CABLE TO POLES G	NEW (3) IMSA CABLES TO POLES H AND I	NEW (1) IMSA CABLE TO POLE H	NEW (1) IMSA CABLE POLE I	NEW (1) IMSA CABLE TO POLE I																	
	SIGNAL ø2																																
	SIGNAL ø3																																
	SIGNAL ø4																																
	SIGNAL ø5																																
	SIGNAL ø5																																
	SIGNAL ø5																																
	SIGNAL ø5																																
	PEDESTRIAN SIGNAL ø2 (FUTURE)																																
	PEDESTRIAN SIGNAL ø4 (FUTURE)																																
	PEDESTRIAN SIGNAL ø6 (FUTURE)																																
	PEDESTRIAN SIGNAL ø8 (FUTURE)																																
	PEDESTRIAN P.B. ø2 (FUTURE)																																
	PEDESTRIAN P.B. ø4 (FUTURE)																																
	PEDESTRIAN P.B. ø6 (FUTURE)																																
	PEDESTRIAN P.B. ø8 (FUTURE)																																
	PEDESTRIAN P.B. COMMON																																
	SIGNAL COMMON ●						1	1	1	1	1	1																					
	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 XHHW	EXST STREET LIGHTING CIRCUIT (BLACK)						1	1	1		1	1																					
	EXST STREET LIGHTING CIRCUIT (RED)						1		1	1																							
#8 XHHW	EXST STREET LIGHTING COMMON (WHITE)						1	1	1	1	1	1																					
#8 ●	EXST EQUIPMENT GROUND			1	1		1	1	1	1	1	1	1	1	1	1																	
120/240V	EXST POWER HOT #6 THW (STREET LIGHT)					2																											
	EXST POWER NEUTRAL #6 THW (STREET LIGHT)					1																											
120/240V	EXST POWER HOT #6 THW (CONTROLLER)					2																											
	EXST POWER NEUTRAL #6 THW (CONTROLLER)					1																											
120/240V	EXST POWER HOT #3/0 (RED) THW (CONTROLLER)		2	2	2	2									2																		
	EXST POWER NEUTRAL #3/0 (WHITE) THW (CONTROLLER)		1	1	1	1									1																		
	PRE–EMPT BEACON (BLUE)																																
	PRE–EMPT BEACON (WHITE)																																
TOMAR M913 CABLE	PRE–EMPT SENSOR**	N/W																															
	PRE–EMPT SENSOR**	E/W																															
PER ADOT SOLID 3 COND.	EXST VEHICLE DETECTION						3	1	2	1	1	1																					
	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	31

CONDUIT AND CONDUCTOR SCHEDULE NOTES

1. THE INSULATED BOND SHALL HAVE THE INSULATION STRIPPED INSIDE THE PULLBOXES.
2. THE IMSA 20 CONDUCTOR CABLE SHALL BE #14 AWG IMSA 19–1. THE IMSA 4 CONDUCTOR AND 7 CONDUCTOR CABLE SHALL BE #14 AWG IMSA 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.

IMSA CABLE, #14 AWG, 20 CONDUCTOR

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

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

IMSA CABLE 19–1, #14 AWG. 4 CONDUCTOR & 7 CONDUCTOR

SIGNAL HEADS 5–SECTION, 7–CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL
RED	RED
BLACK	YELLOW
GREEN	GREEN
ORANGE	YELLOW ARROW
BLUE	GREEN ARROW
WHITE	VEH. COM.
WHT/BLK TR	VEH. COM.

SIGNAL HEADS INBOARD & SIDEMOUNT, 4–CONDUCTOR CABLE	
BASIC COLOR	PUSH BUTTON STATION
RED	RED
BLACK	YELLOW
GREEN	GREEN
WHITE	VEH. COM.

THIS CABLE SHALL BE TAGGED AS TO THE ASSIGNED PHASE

SHEET NOTES

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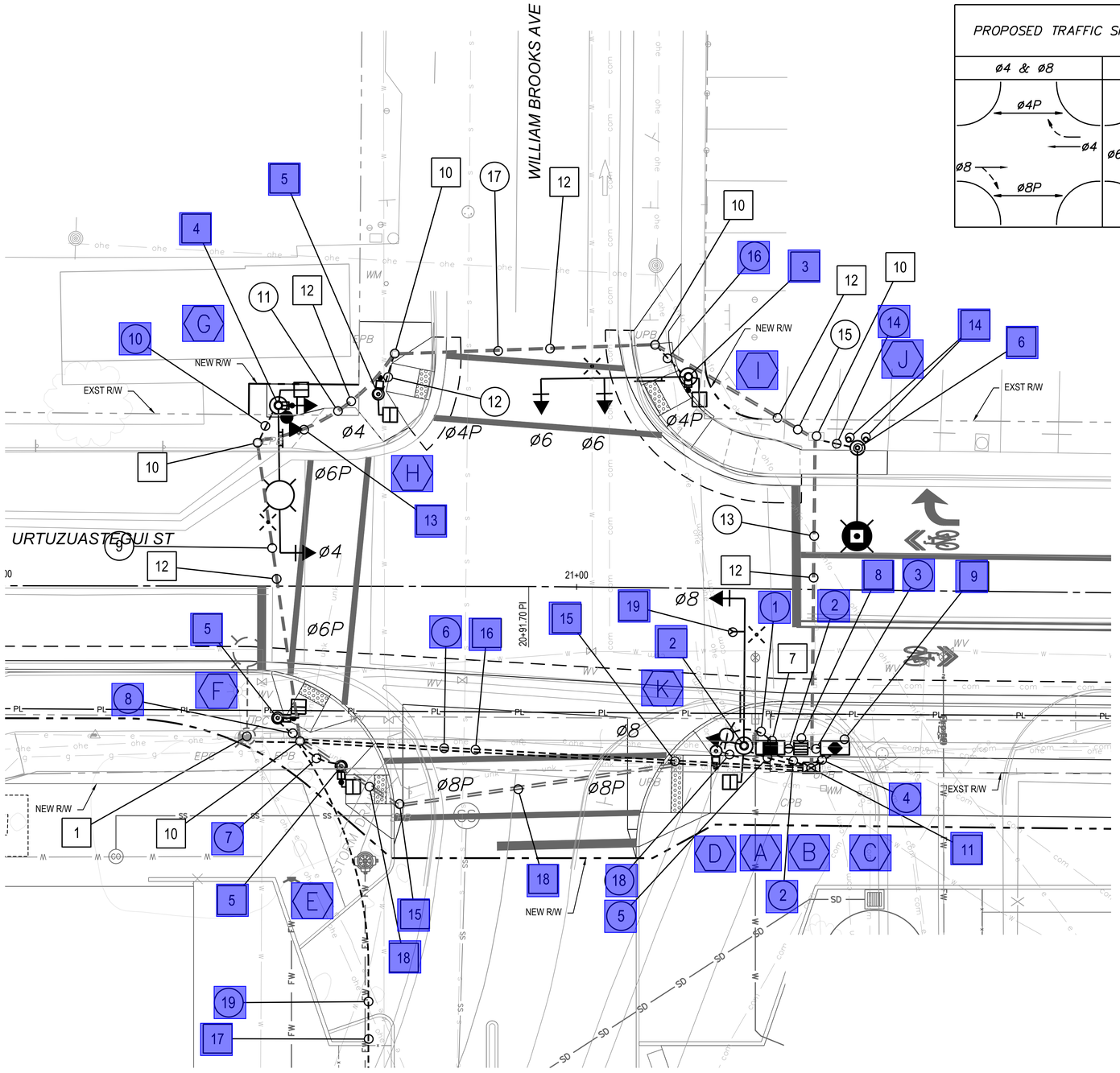
PSOMAS
333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300

SCALE: N.T.S.	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P. NO.

SAN LUIS I LAND PORT OF ENTRY OFFSITE

TRAFFIC SIGNAL CONDUCTOR SCHEDULE — 25 OF: 38



SHEET NOTES

KEYNOTES: THIS SHEET

1. *Existing APS light to remain.*
2. *New Type 'J' pole, 25' signal MA, (1) pedestrian signal, (2) traffic signals with one MA and one side mounted, (1) Ped PB, street name sign, Pre-Empt GPS and beacon.*
3. *New Type 'J' pole, 25' signal MA, (1) pedestrian signal, (2) traffic signals both MA mounted, (1) Ped PB, street name sign, and Pre-Empt beacon.*
4. *New Type 'Q' pole, 25' signal MA, 15' luminaire MA, 135W horizontal mount light (cobra), (1) pedestrian signal, (2) traffic signals with one MA and one side mounted, (1) Ped PB, street name sign, Pre-Empt beacon, and Miovision Smartview 360 video detection.*
5. *New Type 'A' pole, 10', (1) pedestrian signal, (1) Ped PB.*
6. *New Type 'G' pole, 15' luminaire MA, 135W horizontal mount light (cobra).*
7. *New APS Meter Pedestal.*
8. *UPS cabinet.*
9. *ADOT Type IV traffic signal controller.*
10. *Existing No. 7 pull box.*
11. *New No. 7 pullbox with extension. Replaces existing No. 7 pullbox..*
12. *Existing (2) 4" conduit.*
13. *New Miovision Smartview 360 Camera*
14. *(2) Bollards.*
15. *Remove existing No. 7 pull box.*
16. *New (2) 4" conduit.*
17. *On-site pre-emption conduit and cable to extend to Headhouse Building, see On-Site plans. Terminate 4-Conductor Cable (CC), location TBD in Headhouse Building, at a mechanical switch similar to Pelco SE-2001 Rectangular Push Button Assy, Flat Back, Alum Mechanical Switch, or other approved equal by the engineer.*
18. *Remove/abandon existing (2) 4" conduit.*
19. *New Opticom GPS Pre-Emption*

LEGEND

SCALE: 1"=20'

0 10 20 40 60

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PSOMAS		333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300
SCALE: 1"=20'	APPROVED BY:	DRAWN: JV, RC, AP
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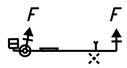
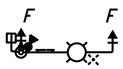
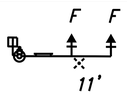
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
TRAFFIC SIGNAL PLAN		26 OF: 38

CABINET SCHEDULE

CABINET	TYPE	CONTROLLER	AUX CONTROLLER	REMARKS	STATION, OFFSET	STANDARDS
(A)	–	APS METER PEDESTAL		MEYERS MEUG16A–M100–AZ, 120/240 1 PHASE 100 AMP, W/PHOTOCELL 1–3 SERV. DISC, 100 AMP 2–POLE 2–4 LIGHTING, 20 AMP 2–POLE 6 CONTROL, 15 AMP 1–POLE 8 SIGNAL, 60 AMP 1–POLE	21+33.9, 27.7" Rt	T.S. 2–6 T.S. 3–5
(B)	–	ZINCBLUE BBS WITH 500W BATTERY		UNIT RATED 5 KW, 120/240V 1 PH IN NEMA 3R ENCLOSURE	21+39.1, 27.7' Rt	T.S. 2–7
(C)	IV	ECONOLITE COBALT ATC CONTROLLER W/ECONOLITE CABINET POWER SUPPLY PS–2412–5A		ECONOLITE 77 INCH "R" CABINET ADOT TYPE V (ADOT T.S. 3–9) INCLUDE GENERATOR HOOK–UP ON CABINET	21+45.0, 27.7" Rt	T.S. 2–4 T.S. 3–9 T.S. 3–10

POLE SCHEDULE

POLE NUMBER	POLE TYPE	MAST ARMS SIG	MAST ARMS LUM	SIGNALS FACE	SIGNALS ASSEMBLY	LUMINAIRE	PED. P.B. TYPE/SIGN	REMARKS	STATION, OFFSET
(D)	 J See Note 6	25	–	(2) – F (1) – PED	(1) – II (1) – V (1) – XI	–	(1) TYPE 1 2" ADA PB PPB SIGN R10–3b(L)	PRE–EMPT BEACON, SEE NOTE 2 PRE–EMPT GPS SENSOR, SEE NOTE 2 STREET NAME SIGN, SEE SIGNING PLAN	(D) 21+29.3, 27.2' Rt
(E) (F)	 A (10 FT)	–	–	(1) – PED	(1) – XI	–	(1) TYPE 1 2" ADA PB PPB SIGN R10–3b(R)	PPB, SEE NOTE 4	(E) 20+59.2, 31.2' Rt (F) 20+48.2. 22.9' Rt
(G)	 Q See Note 6	25	15	(2) – F (1) – PED	(1) – II (1) – V (1) – XI	135W SEE NOTE 5	TYPE 1 2" ADA PB PPB SIGN R10–3b(L)	PRE–EMPT BEACON, SEE NOTE 2 STREET NAME SIGN, SEE SIGNING PLAN VIDEO CAMERA, SEE NOTE 3 PPB, SEE NOTE 4	(G) 20+48.2, 31.4' Lt
(H)	 A (10 FT)	–	–	(1) – PED	(1) – XI	–	(1) TYPE 1 2" ADA PB PPB SIGN R10–3b(L)	PPB, SEE NOTE 4	(H) 20+65.5, 33.4' Lt
(I)	 J See Note 6	25	–	(2) – F (1) – PED	(2) – II (1) – XI	–	TYPE 1 2" ADA PB PPB SIGN R10–3b(L)	PRE–EMPT BEACON, SEE NOTE 2 STREET NAME SIGN, SEE SIGNING PLAN VIDEO CAMERA, SEE NOTE 3 PPB, SEE NOTE 4	(I) 21+19.0, 36.7' Lt
(J)	 G	–	15	–	–	135W SEE NOTE 5	–	PHOTOCELL ON LUMINAIRE	(J) 21+48.5, 24.7' Lt
(K)	PPB	–	–	–	–	–	TYPE PB 2" ADA PB PPB SIGN R10–3b(L)	PPB, SEE NOTE 4	(K) 21+24.5, 28.3' Rt

SHEET NOTES

POLE SCHEDULE NOTE

THE CONTRACTOR SHALL PREPARE SIGNED AND SEALED SHOP DRAWINGS FOR ALLL TRAFFIC SIGNAL POLES, MAST ARMS, AND FOUNTATIONS TO SUPPORT THE LOAD SHOWN ON THESE PLANS AND TO THE STANDARDS DRAWINGS. DESIGN OF SIGNALS SHALL BE COMPLIANT WITH THE 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 6TH EDITION. SHOP DRAWINGS SHALL BE SUBMITTED TO THE SENIOR TRAFFIC TECHNICIAN FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

NOTES

1. THE EXISTING TRAFFIC SIGNAL WAS CONSTRUCTED FOLLOWING THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) SIGNALS AND LIGHTING STANDARD (SLS) DRAWINGS, 2010. REFERENCE IS MADE TO THESE STANDARD DETAILS.
2. PRE–EMPTION SHALL BE OPTICOM GPS AND INCLUDE:
   a. GPS RADIO UNIT MODEL #3100
   b. GPS INSTALLATION CABLE MODEL #1700, EXT. 500'
   c. 4–CHANNEL 1 SLOT OPTICOM CARD RACK MODEL #760
   d. OPTICOM MULTI–MODE PHASE SELECTOR MODEL #764
3. VIDEO DETECTION SHALL BE MIOVISION WITH VIDEO IMAGE VEHICLE TRACKING AND DETECTION SYSTEM (V.I.V.T.D.S.) AND INCLUDE:
   a. MIOVISION SMARTVIEW 360 BELL CAMERA
      – INCLUDE CAMERA MOUNT AND UNIVERSAL HUB FOR MOUNTING TO TRAFFIC SIGNAL POLE.
   b. SHIELDED CAT5E ETHERNET CABLE
   c. MIOVISION CORE WITH DIRECT COUNTS MODULE (DCM)
4. PEDESTRIAN PUSH BUTTONS SHALL BE POLARIS APS BUTTONS WITH IN29VNOX–X R10–3 SIGN, ICCU–S CENTRAL CABINET CONTROL UNIT, 850–390 CABLE HARNESS, AND iN2–ICB INTERCONNECT BOARD.
5. LUMINAIRE SHALL BE LEOTEX MODEL GCL1, 135, 3000K, 60G OR EQUIVALENT.
6. TYPE J AND Q TRAFFIC SIGNAL POLES SHALL BE PER ADOT SPECIFICATION, BUT WITH HINGED COVER ON TERMINAL COMPARTMENT PER FOR REFERENCE ONLY DETAILS.

LEGEND

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SAN LUIS I LAND PORT OF ENTRY OFFSITE		
TRAFFIC SIGNAL POLE SCHEDULE		27 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											
AWG	CIRCUIT PHASE																														
#14 AWG IMSA 19–1 MULTI–CONDUCTOR CABLE	NO. IMSA 20 CC				3	1	1			1	1			1		1	1														
	NO. IMSA 4 CC				15	2	10	2	2	5	3	2	2	2		2	2		1	1										
	SIGNAL ø1	NEW CONDUCTORS BY APS ◇			(3) 20CC, (14) 4CC POLES D, E, F, G, H, I, K (1) 4CC FOR ON–SITE PRE–EMPTION	(1) 20CC, (2) 4CC POLE D	(1) 20CC, (9) 4CC POLES E, F, G, H (1) 4CC FOR ON–SITE PRE–EMPTION	(2) 4CC POLE E	(2) 4CC POLE F	(1) 20CC, (5) 4CC POLES G, H	(1) 20CC, (3) 4CC POLE G	(2) 4CC POLE H	(2) 4CC POLE H	(1) 20CC, (2) 4CC POLE I	SEE STREET LIGHTING	(1) 20CC, (2) 4CC POLE I	(1) 20CC, (2) 4CC POLE I	EXISTING EMPTY	(1) 4CC POLE K	(1) 4CC FOR ON–SITE PRE–EMPTION										
	SIGNAL ø2																														
	SIGNAL ø3																														
	SIGNAL ø4																														
	SIGNAL ø5																														
	SIGNAL ø5																														
	SIGNAL ø5																														
	SIGNAL ø5																														
	PEDESTRIAN SIGNAL ø2 (FUTURE)																														
	PEDESTRIAN SIGNAL ø4 (FUTURE)																														
	PEDESTRIAN SIGNAL ø6 (FUTURE)																														
	PEDESTRIAN SIGNAL ø8 (FUTURE)																														
	PEDESTRIAN P.B. ø2 (FUTURE)																														
	PEDESTRIAN P.B. ø4 (FUTURE)																														
	PEDESTRIAN P.B. ø6 (FUTURE)																														
	PEDESTRIAN P.B. ø8 (FUTURE)																														
	PEDESTRIAN P.B. COMMON																														
	SIGNAL COMMON ●				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1										
	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 XHHW	STREET LIGHTING CIRCUIT (BLACK)				1									1	1																
	STREET LIGHTING CIRCUIT (RED)				1		1			1	1																				
#8 XHHW	STREET LIGHTING COMMON (WHITE)				1									1	1																
#8 ●	EQUIPMENT GROUND		1		1	1	1	1	1	1	1	1	1	1	1	1	1														
120/240V	POWER HOT #6 THW (STREET LIGHT)			2																											
	POWER NEUTRAL #6 THW (STREET LIGHT)			1																											
120/240V	POWER HOT #6 THW (CONTROLLER)			2																											
	POWER NEUTRAL #6 THW (CONTROLLER)			1																											
120/240V	POWER HOT #3/0 (RED) THW (CONTROLLER)	2	2	2																											
	POWER NEUTRAL #3/0 (WHITE) THW (CONTROLLER)	1	1	1																											
	PRE–EMPT BEACON (BLUE)																														
	PRE–EMPT BEACON (WHITE)																														
GPS CABLE MODEL #1070	OPTICOM GPS RADIO UNIT MODEL #3100				1	1																									
SHIELDED CAT5E ETHERNET CABLE	VEHICLE DETECTION				1		1			1	1																				
	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 IMSA 20 CONDUCTOR CABLE SHALL BE #14 AWG IMSA 19–1. THE IMSA 4 CONDUCTOR AND 7 CONDUCTOR CABLE SHALL BE #14 AWG IMSA 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.

IMSA CABLE, #14 AWG, 20 CONDUCTOR

CABLE *1		CONDUCTOR COLOR: BASIC COLOR	CONDUCTOR COLOR: TRACER STRIPE	SIGNAL INTERVAL
ø 1	ø 5 OR OVERLAP A	RED	WHITE	RED
		BLACK	WHITE	YELLOW
		GREEN	WHITE	GREEN
ø 2	ø 6 OR OVERLAP B	RED	--	RED
		4.5	--	YELLOW
		GREEN	--	GREEN
ø 3	ø 7 OR OVERLAP C	BLACK	RED	RED
		ORANGE	RED	YELLOW
		BLUE	RED	GREEN
ø 4	ø 8 OR OVERLAP D	RED	BLACK	RED
		ORANGE	BLACK	YELLOW
		GREEN	BLACK	GREEN
ø 2 PED.	ø 6 PED.	BLUE	--	WALK
		BLACK	--	DONT WALK
		WHITE	BLACK	PUSH BUTTON
ø 4 PED.		BLUE	WHITE	WALK
		RED	GREEN	DONT WALK
		WHITE	RED	PUSH BUTTON
ALL ø 'S		WHITE	--	P.B. COMMON
		BLUE	BLACK	SPARE

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

IMSA CABLE 19–1, #14 AWG. 4 CONDUCTOR

SIGNAL HEADS INBOARD & SIDEMOUNT	
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	
4-CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL
RED	DONT WALK
GREEN	WALK
WHITE	PED. COM.
BLACK	SPARE

PUSH BUTTON	
4-CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL
RED	PUSH BUTTON
WHITE	P.B. COM.
GREEN	SPARE
BLACK	SPARE

THE CABLES SHALL BE TAGGED AS TO THE ASSIGNED PHASE

IMSA CABLE 19–1, #14AWG 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 6. SEE NOTE 1

SHEET NOTES

1. ON–SIT PRE–EMPTION VIA 4CC TO BE DESIGNATED AS PHASE 9 OR PHASE 6 OVERLAP FOR NB GREEN AND SET WITH MAX. GREEN TIME OF 180 SEC. OR OTHER TIME, AS APPROVED BY THE ENGINEER.

LEGEND

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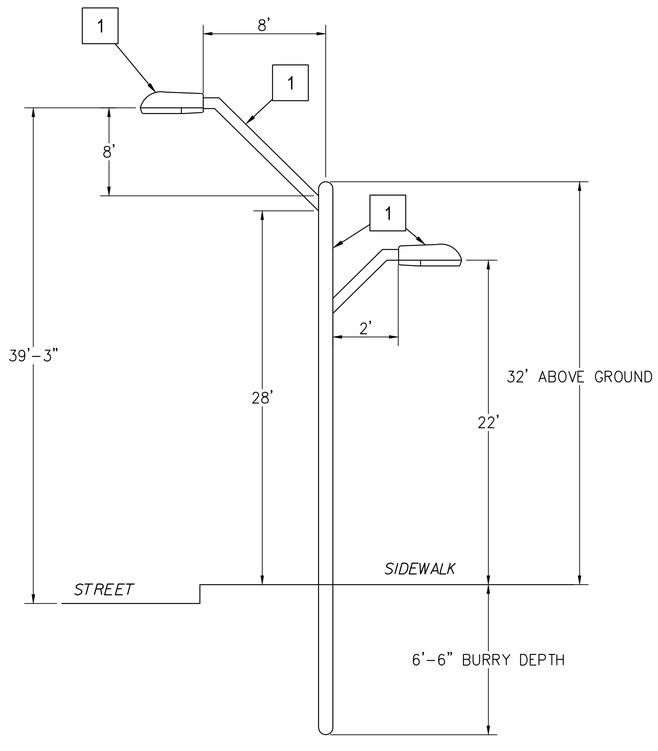
TRAFFIC SIGNAL CONDUCTOR SCHEDULE		28 OF: 38

LEGEND

EXIST	PROPOSED	
		LUMINAIRE, MAST ARMS, POLE & POLE BASE
		*7 PULLBOX WITH EXTENSION
		*3½ PULLBOX
		*5 PULLBOX
		*7 PULLBOX
		LOAD CENTER CABINET
		METER PEDESTAL
		CONDUIT RUN
		LUMINAIRE W/PHOTOCELL
		LUMINAIRE
		STREET NAME SIGN (SNS)
(A)	(F)	POLE ID KEY LETTER
(1)	(8)	CONDUIT RUN NUMBER
	[12]	CONSTRUCTION KEY NOTE
		GAS LINE
		TELEPHONE LINE
		ELECTRIC LINE
		SEWER LINE
		WATER LINE
		CABLE TV LINE
		FIBER OPTIC LINE



A COMBINATION POLE DETAIL - APS POLE CODE 1944.38

NTS

KEYNOTES: THIS SHEET

[1] REFER TO POLE SCHEDULE, LIGHTING MODIFICATION PLAN

STREET LIGHTING GENERAL NOTES:

1. ALL LIGHTING AND RELATED CONDUIT/WIRE WORK SHALL CONFORM UNLESS NOTED OTHERWISE TO THE 2021 EDITION OF THE ADOT 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 DIAGRAMMATIC 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 OUTAGES FROM ENGINEER.
5. CONTRACTOR IS TO NOTIFY ENGINEER IN WRITING WHEN FIELD ADJUSTMENT OF POLES IS NECESSARY TO AVOID CONFLICT WITH UTILITIES OR CONSTRUCTION. STAKE NEW LOCATION OF POLES 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 CONJUNCTION WITH EXECUTION OF THIS CONTRACT.
7. WHERE INDICATED ON THE PLANS, REMOVE EXISTING FOUNDATION PER SPECIAL PROVISIONS. POLES AND HARDWARE SHALL BE CLEANED AND DELIVERED TO APS, OR CITY OF SAN LUIS AS INDICATED ON THE PLANS.
8. DIRECT BURIED POLES SHALL BE SET IN AN AUGURED HOLE IN UNDISTURBED EARTH. POLE SHALL BE SET PLUMB IN TWO DIRECTIONS 90 DEGREES APART. BACKFILL SHALL BE IN ACCORDANCE WITH ADOT 2021 STANDARD SPECIFICATIONS, SUBSECTION 203-5.03(B).
9. EXISTING APS POWER SOURCE SHALL REMAIN IN PLACE AND FULLY OPERATIONAL THROUGHOUT THE CONSTRUCTION PERIOD UNLESS OTHERWISE NOTED.
10. CONTRACTOR SHALL RECIRCUIT AND RECONNECT ALL ELECTRICAL EQUIPMENT CIRCUITS, ETC., NOT INDICATED TO BE REMOVED WHICH MAY BECOME SEVERED FROM IT NORMAL POWER SUPPLY.
11. DIRECT BURY POLE BURY DEPTH SHALL BE IN ACCORDANCE WITH APS REQUIREMENTS.
12. CONTRACTOR SHALL CONTACT JOHN P. MAHON OF APS AT (928-336-9820) 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 ROADWAY SUCH THAT THE LUMINARIES 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 BURIED 12 INCHES BELOW GRADE. TYPICAL UNIT IS 3M-EMS-XR/ID POWER. LOCATOR BALLS TO BE INCLUDED IN PULL BOX PRICES.
18. EXISTING LIGHTS ARE POWERED BY APS
19. CONTRACTOR TO PROVIDE CONDUIT TRENCH, 1 INCH AND 2 1/2 INCH CONDUIT AND INSTALL 2500 LB. RATED MULE TAPE IN CONDUIT. CLOSE TRENCH AFTER CONDUIT/PULL BOX SYSTEM HAS BEEN INSPECTED AND APPROVED BY APS.
20. APS TO SUPPLY PULL BOXES (J BOXES) AND INSTALL LIGHTING CONDUCTORS 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. GROUT THE PULL BOXES PER APS REQUIREMENTS. GROUND RODS TO BE INCLUDED AS PART OF PULL BOX INSTALLATION.

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333 E WETMORE ROAD, SUITE 450
TUCSON, AZ 85705
520.292.2300

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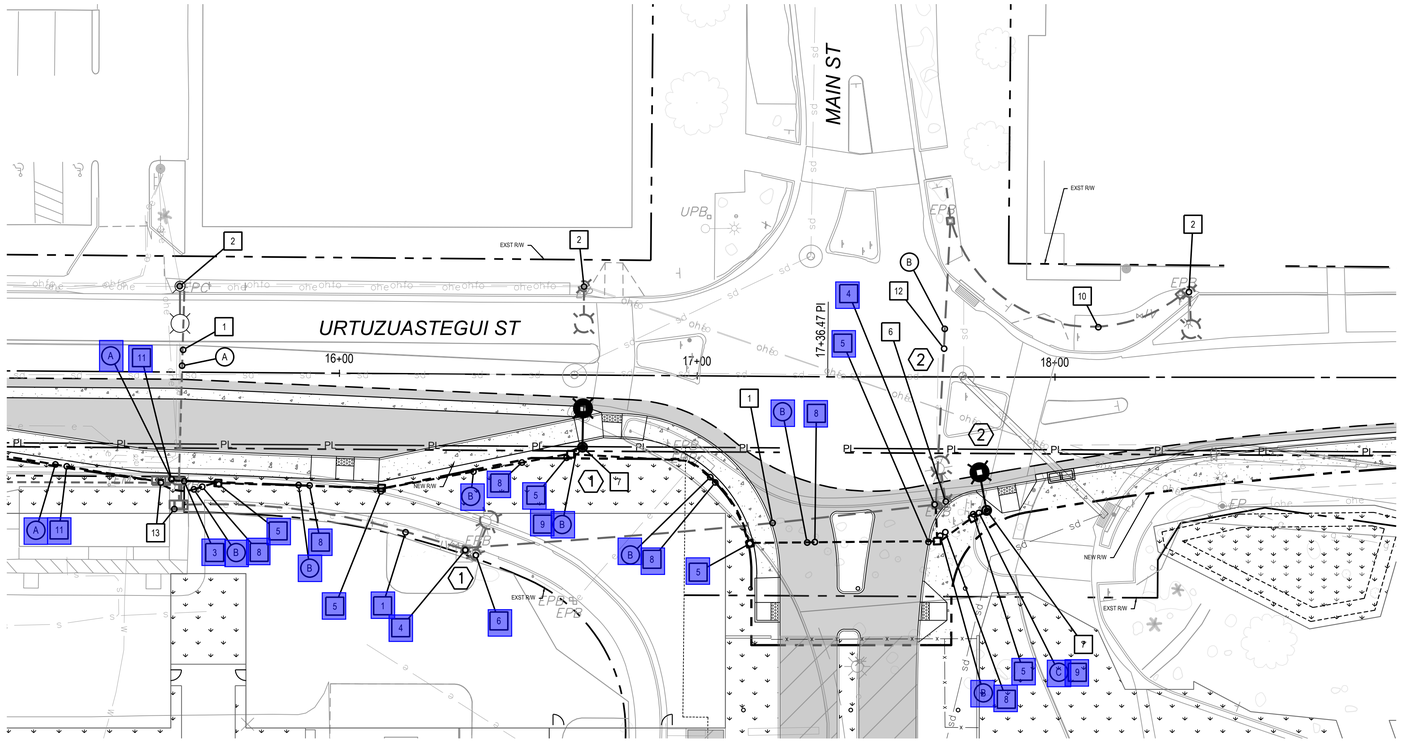
DATE: 8/31/23		C.I.P NO.

SAN LUIS I LAND PORT OF ENTRY OFFSITE

LIGHTING NOTES — 29 OF: 38

Plotted - 8/31/2023 7:03:49 PM :: Saved - 8/31/2023 6:16:29 PM :: S:\SJQN\20200 - San Luis 1 LPOE\CADD\Design\Sheets\OFFSITE\CX012.dwg :: alejandra.pulido



SHEET NOTES

KEYNOTES: THIS SHEET

1. EXISTING ELECTRIC SERVICE CONDUIT RUN NO. 1 FROM APS CONNECTION POINT, 2 1/2 INCH CONDUIT, 3 #3/0 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 #3/0 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

SCALE: 1"=20'
0 20 60
10 40

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	Urtuzuastegui 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	Urtuzuastegui 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

CONDUIT AND CONDUCTOR SCHEDULE

	CONDUIT RUN LETTER	A	B	C	D	E	F
AWG	CONDUIT SIZE IN INCHES	2 1/2	2 1/2	1			
#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, 26 W LED, Type II Distribution 3000K, 3,400 Initial Lumens for sidewalk.*

LEGEND

- CONCRETE PAVEMENT PER PAVING PLAN, SHEETS CI121-SP THROUGH CI125-S, CONCRETE SIDEWALK PER COY NO. 3-135.
- AC PAVEMENT PER PAVING PLAN , SHEETS CI121-SP THROUGH CI125-SP
- FOG SEAL EXISTING PAVEMENT.
- UTILITY EASEMENT LINE
- PROPERTY LINE

Know what's **below.** **Call** before you dig. 811

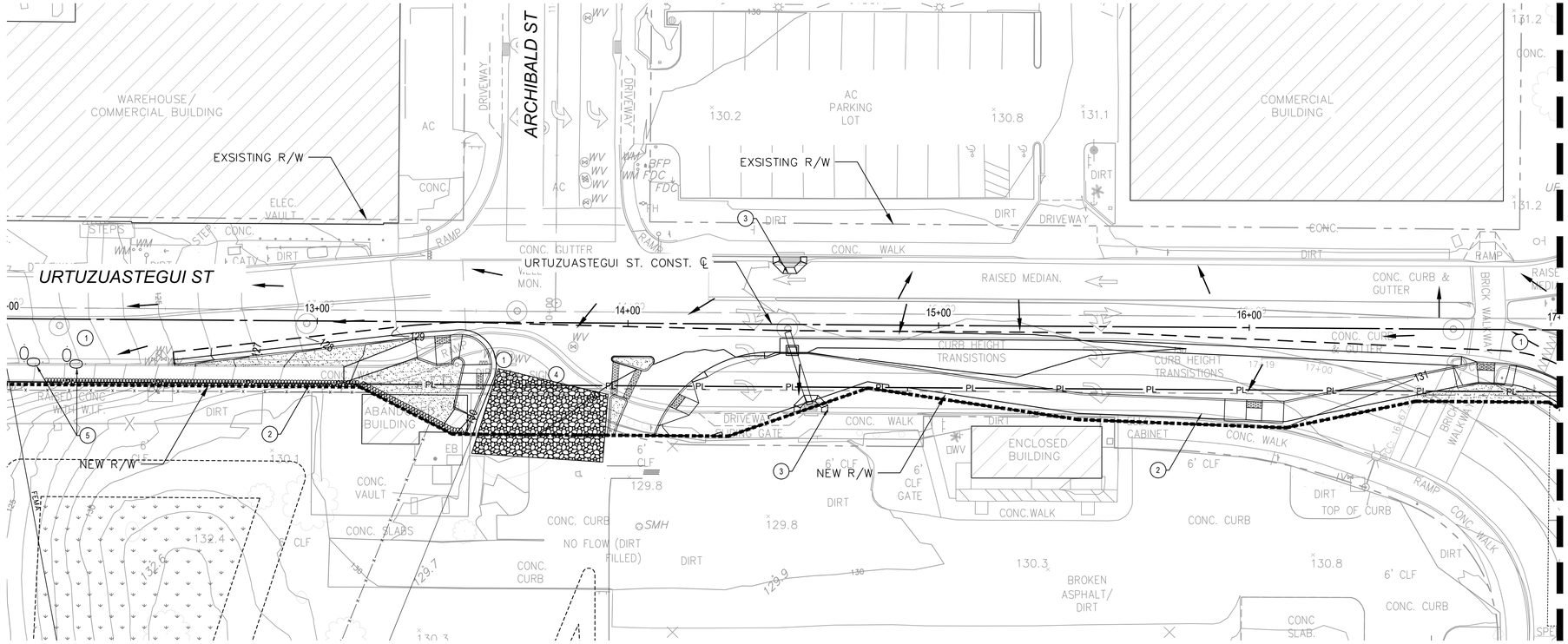
SEAL — Registered Professional Engineer — DRAFT — ARIZONA U.S.A.

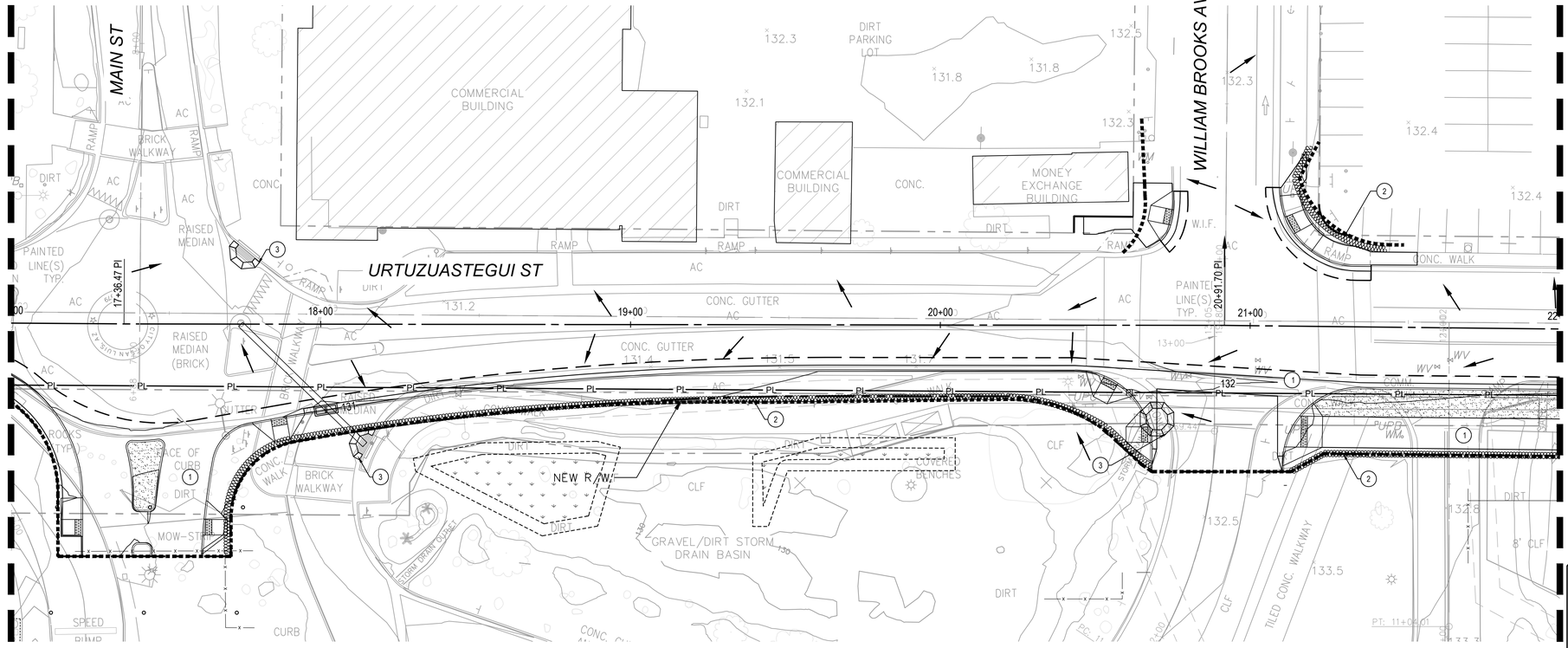
PSOMAS 333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300

SCALE: 1"=20'	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.

SAN LUIS I LAND PORT OF ENTRY OFFSITE

LIGHTING MODIFICATION PLAN — 30 OF: 38





SHEET NOTES

1. SWEEP STREETS DAILY 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) STORMWATER BEST MANAGEMENT PRACTICE FOR THE BMP 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.

SCALE: 1"=20'

0 10 20 40 60

Know what's **below.** **Call** before you dig.

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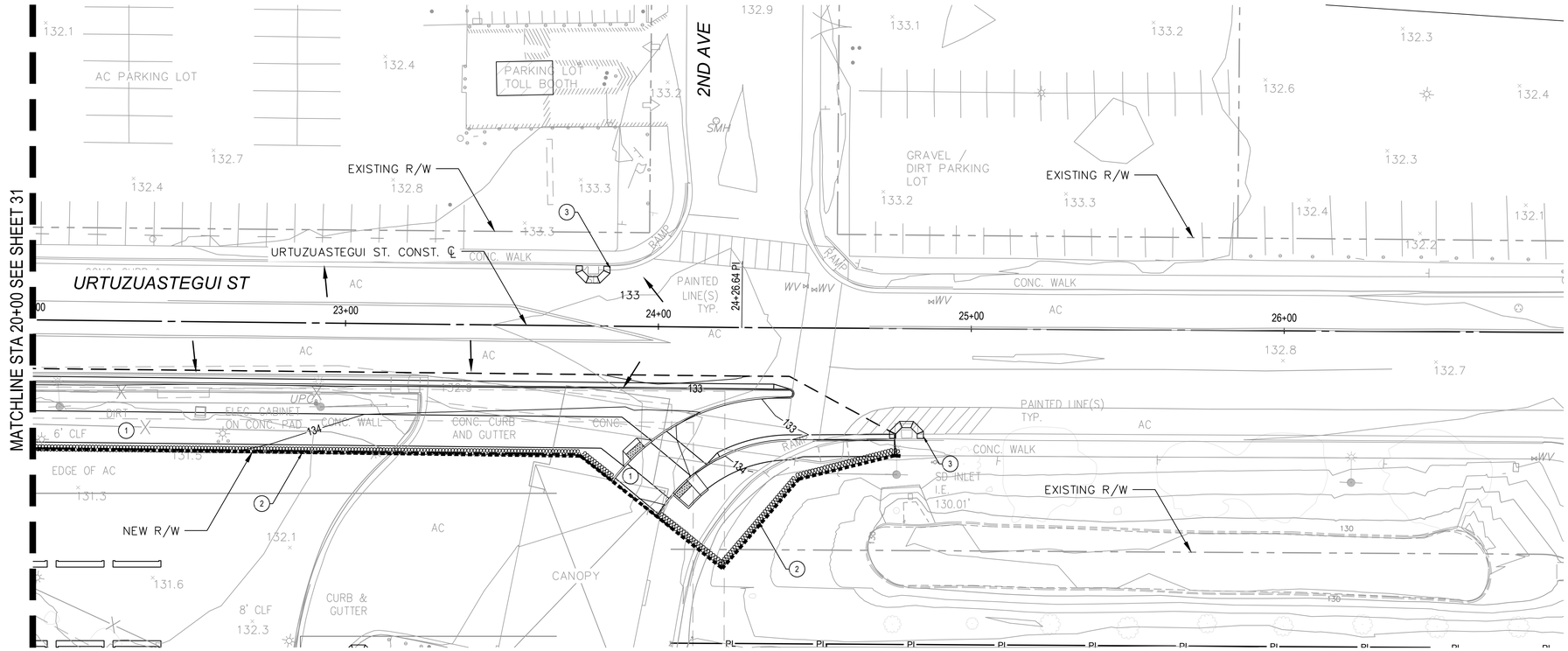
LEGEND

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

SEAL

DRAFT

PSOMAS		333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300
SCALE: 1"=20'	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
EROSION CONTOL PLAN		31 OF: 38



SHEET NOTES

1. SWEEP STREETS DAILY AT POINTS OF INGRESS AND EGRESS ACROSS PROJECT EXTENTS
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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) STORMWATER BEST MANAGEMENT PRACTICE FOR THE BMP 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.

SCALE: 1"=20'

0 20 60
10 40

Know what's **below.** **Call** before you dig.

811

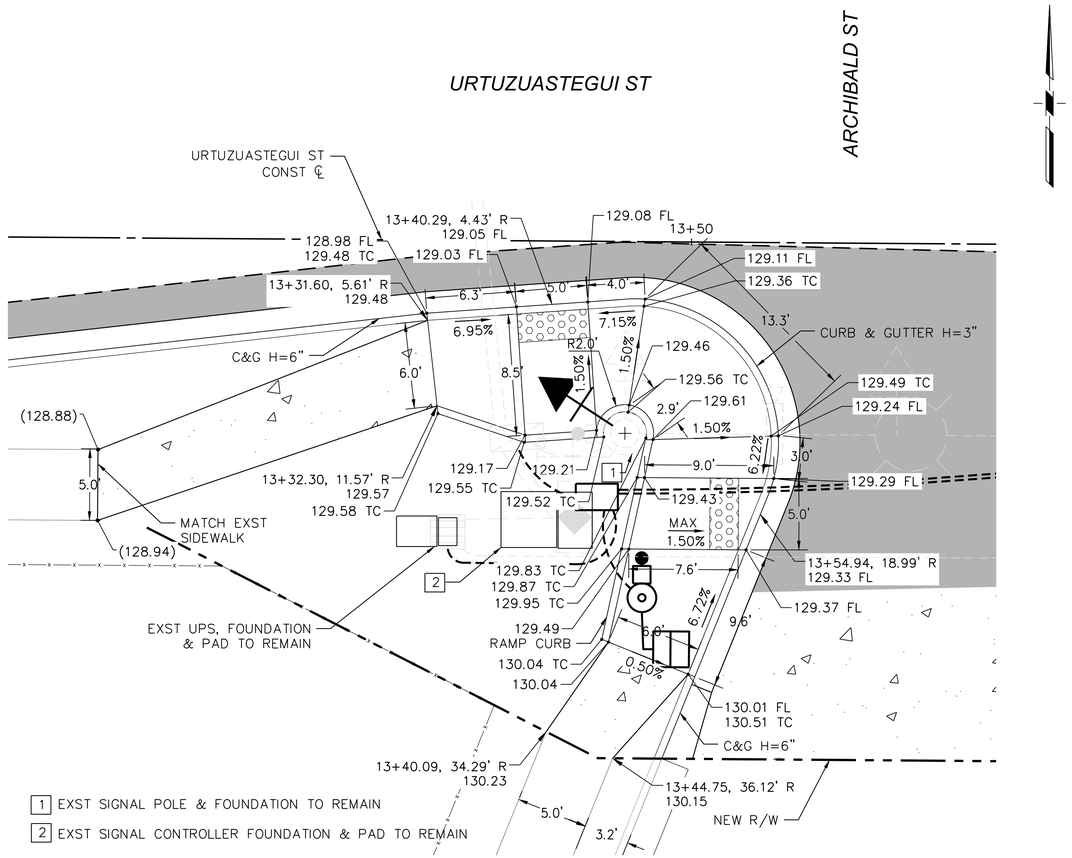
LEGEND

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

SEAL

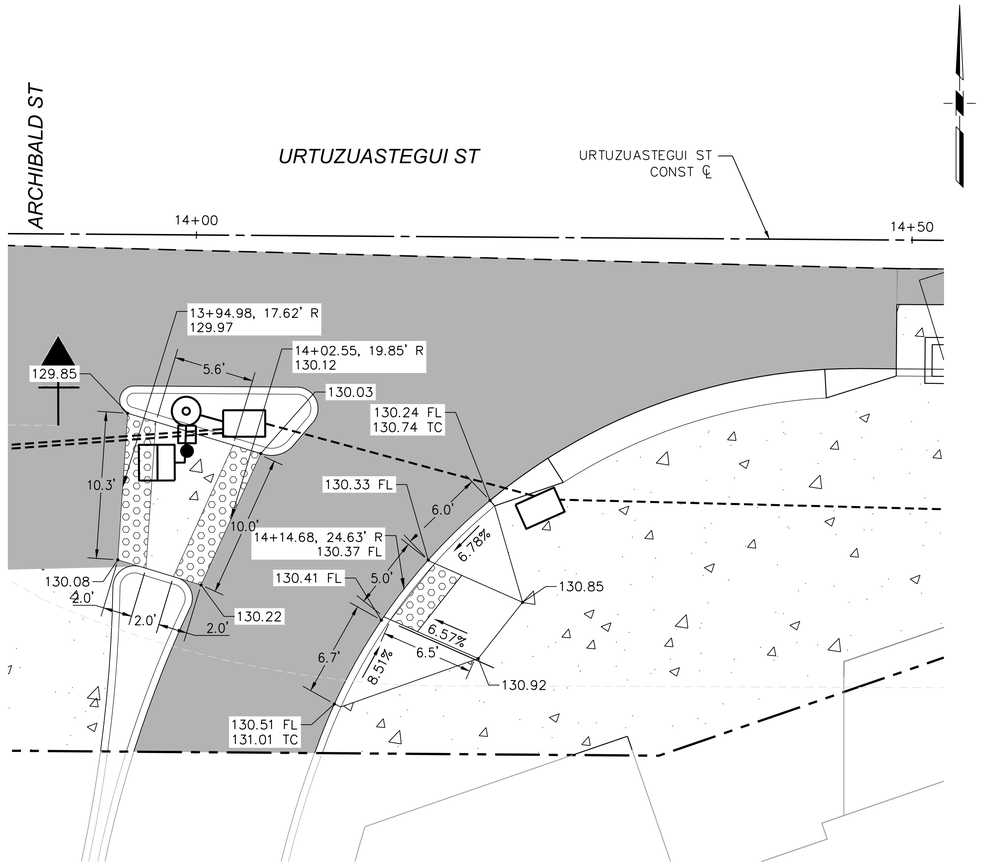
DRAFT

PSOMAS		333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300
SCALE: 1"=20'	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
EROSION CONTROL PLAN		32 OF: 38

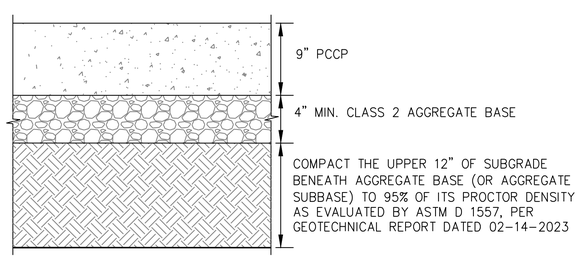


R1 / 12 DIRECTIONAL CURB RAMPS
3" CURB AND GUTTER
1"=5'

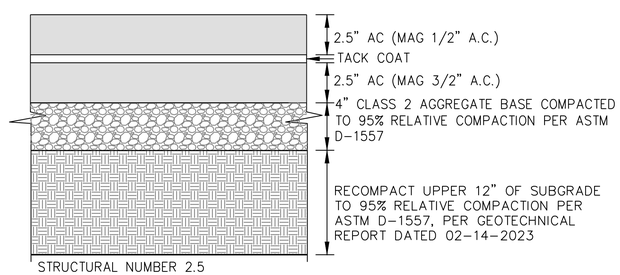
(XXX.XX) EXISTING ELEVATION
XXX.XX PROPOSED ELEVATION



R2 / 12 RADIAL CURB RAMP ATTACHED
SIDEWALK PER MAG STD DTL 236-1
1"=5'



A1 / 12/13 CONCRETE PAVEMENT (RIGID)
N.T.S.



A2 / 12/13 ASPHALT PAVEMENT (FLEXIBLE) FOR URTUZUASTEGUI ST
N.T.S.

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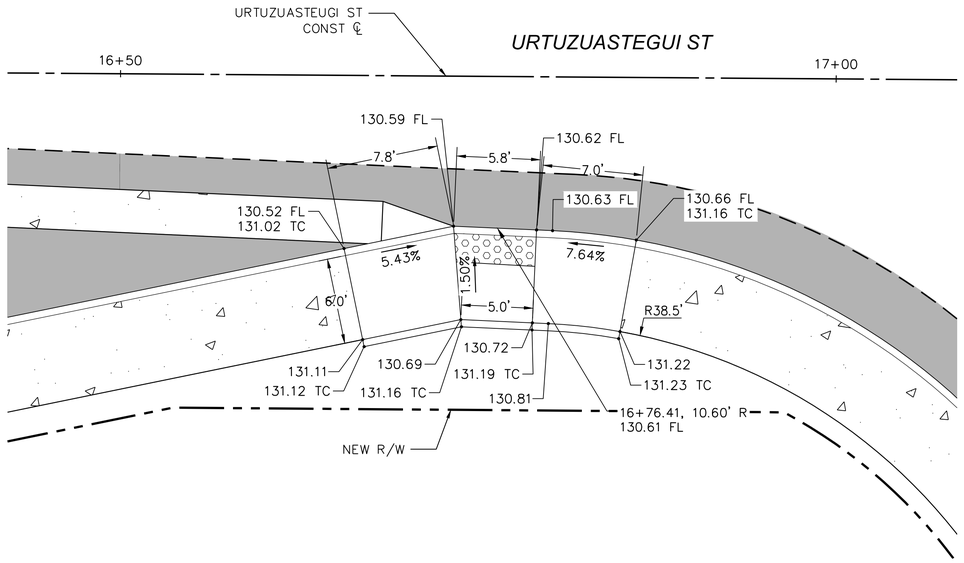
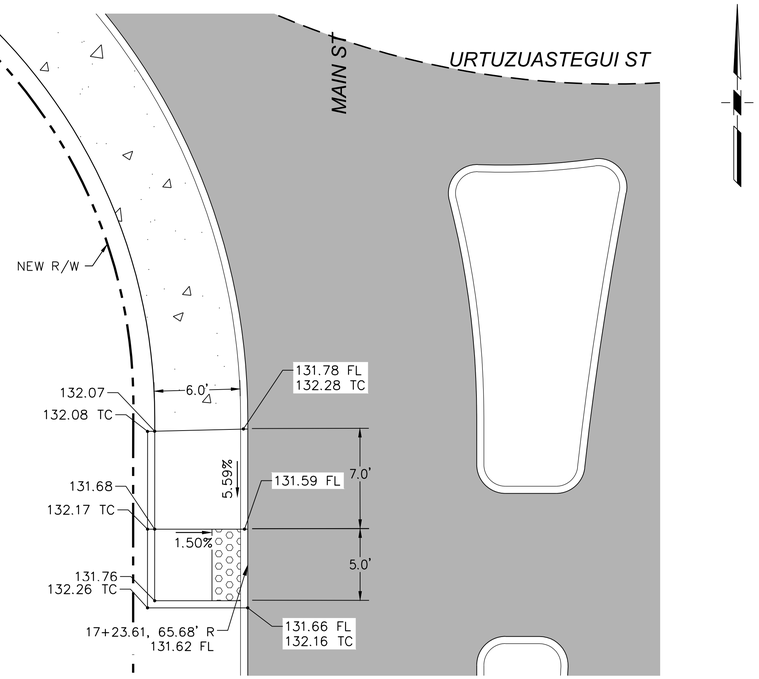
Registered Professional Engineer
DRAFT
ARIZONA U.S.A.

PSOMAS	333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300	
SCALE: N.T.S	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
DETAILS		33 OF: 38



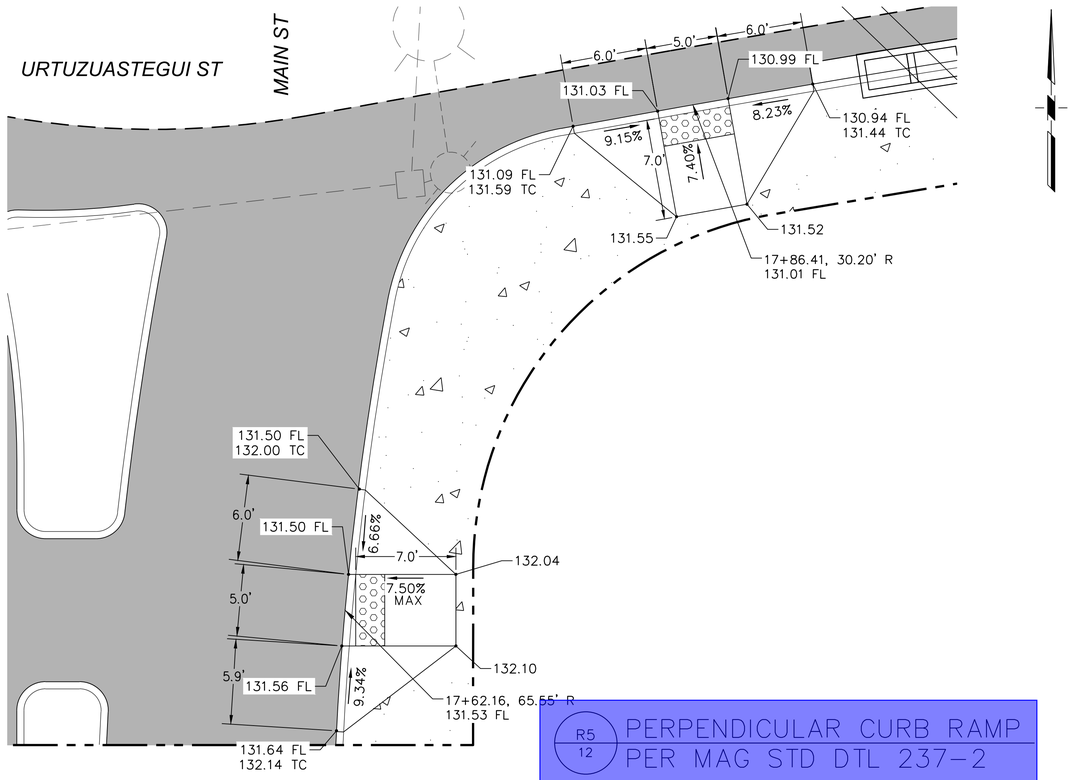
R3 / 12 PARALLEL CURB RAMP PER MAG STD DTL 238-3

1"=5'



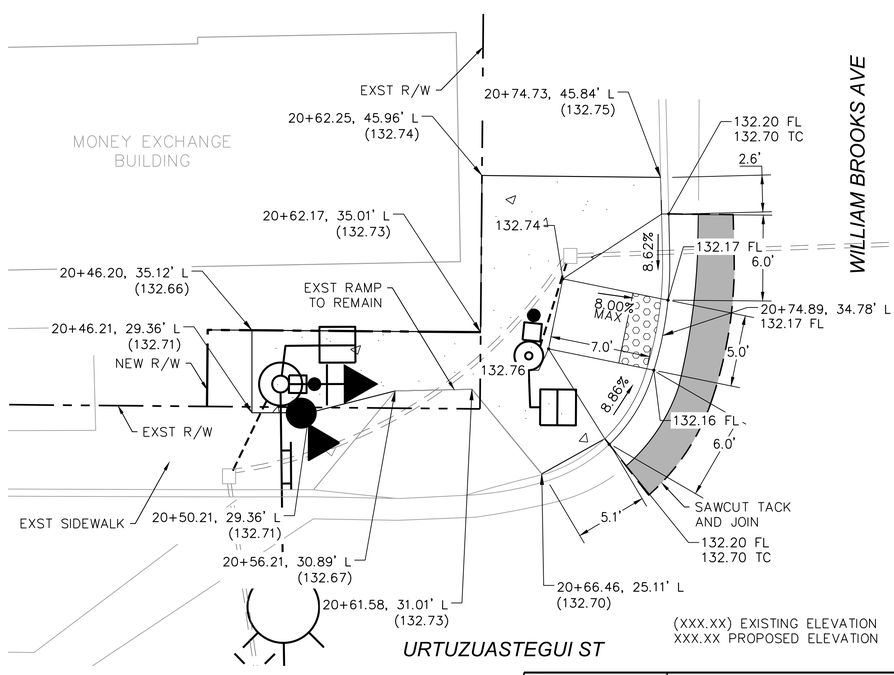
R4 / 12 SIDEWALK RAMP TYPE C PER ADOT STD C-05.30

1"=5'



R5 / 12 PERPENDICULAR CURB RAMP PER MAG STD DTL 237-2

1"=5'



R6 / 12 RADIAL CURB RAMP ATTACHED SIDEWALK PER MAG STD DTL 236-1

1"=5'

Know what's **below.** **Call** before you dig.

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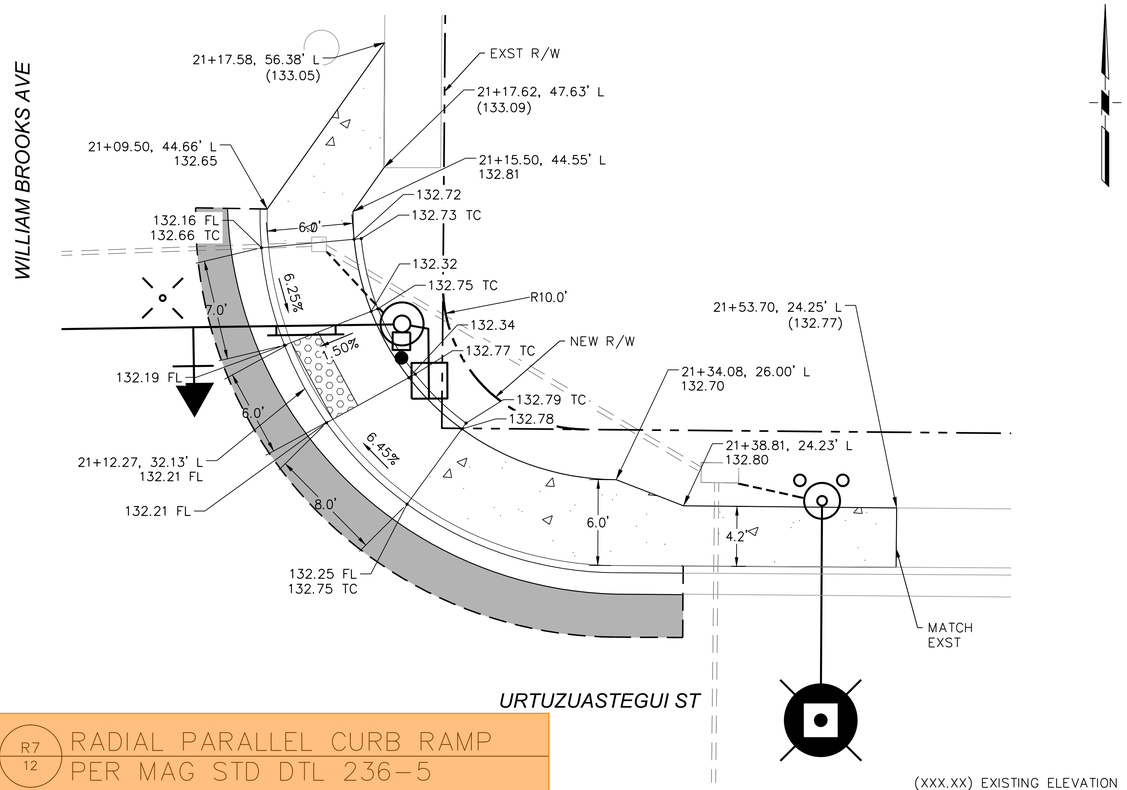
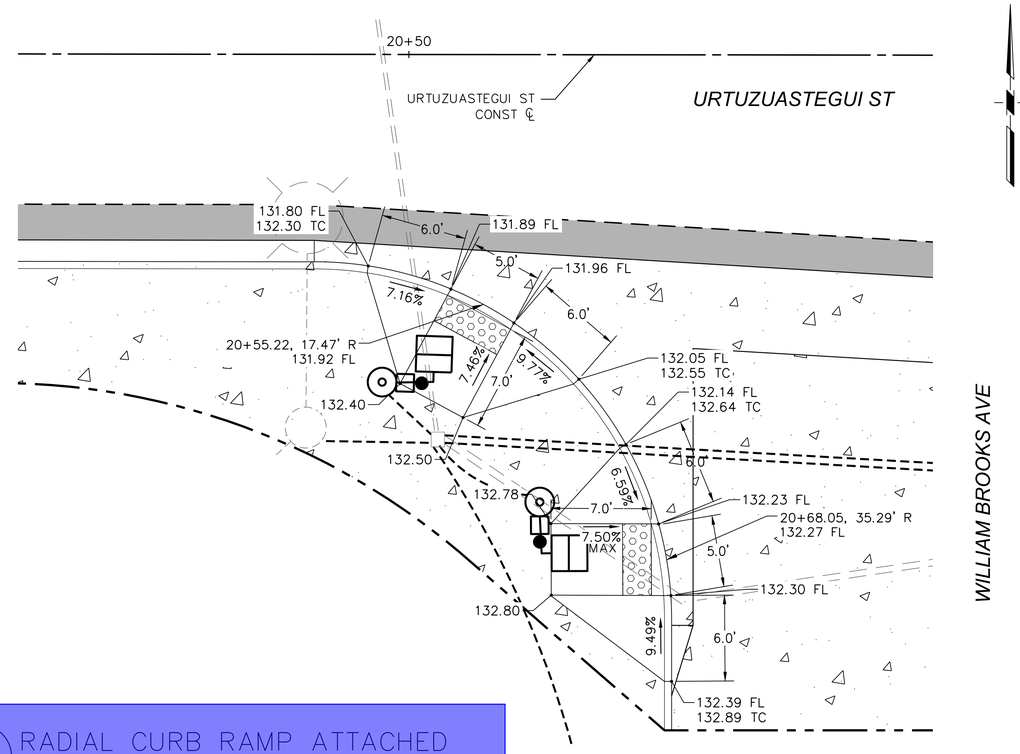
PSOMAS	333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300	
SCALE: N.T.S	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
DETAILS		34 OF: 38

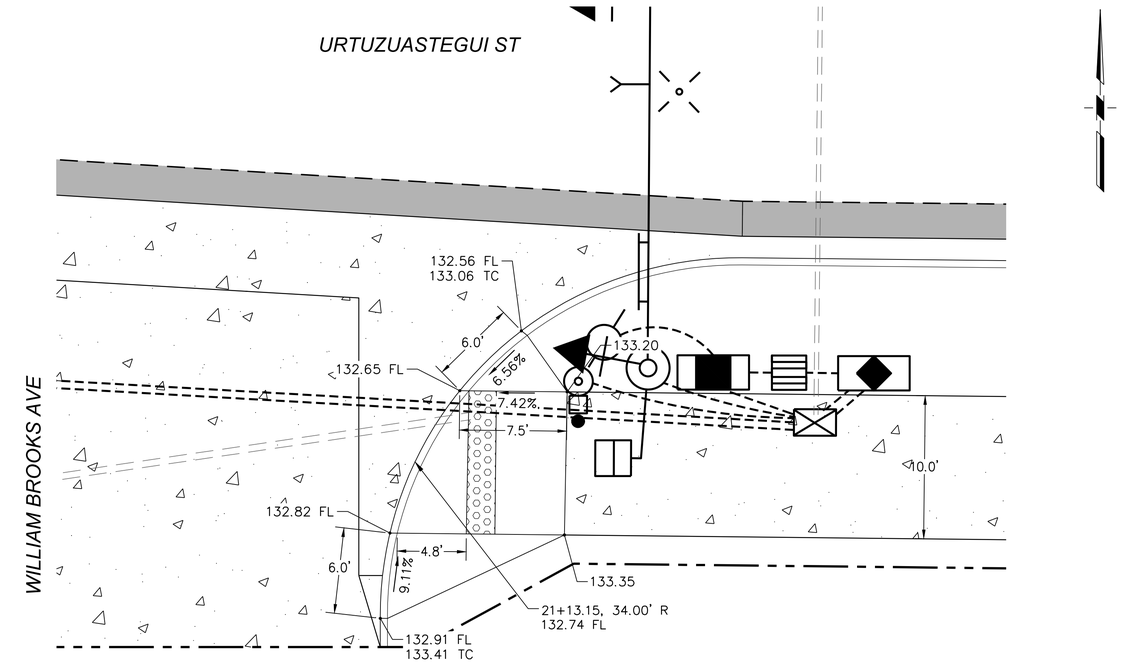


(XXX.XX) EXISTING ELEVATION
XXX.XX PROPOSED ELEVATION

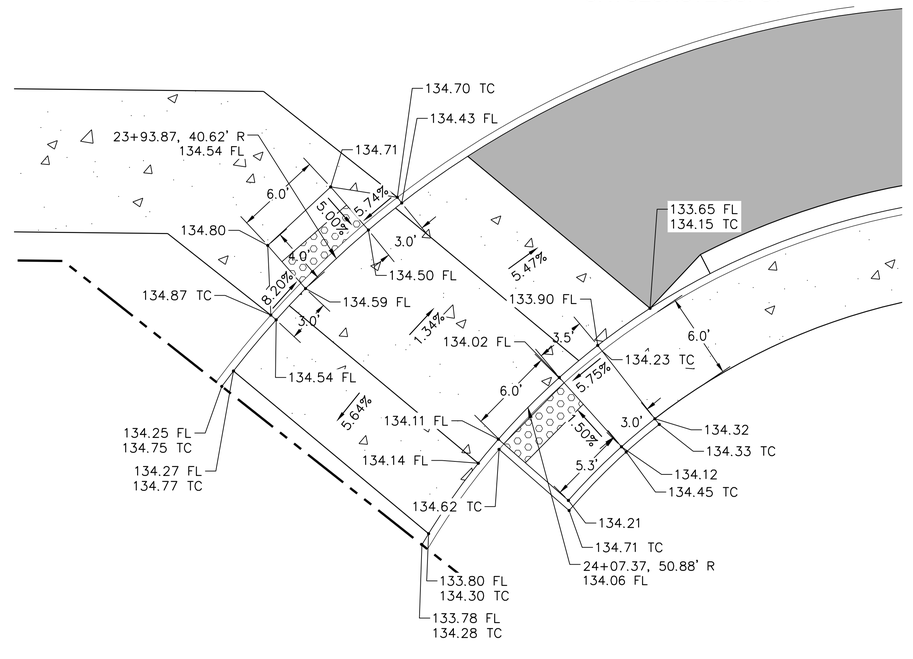
R7
12
RADIAL PARALLEL CURB RAMP
PER MAG STD DTL 236-5
1"=5'



R8
12
RADIAL CURB RAMP ATTACHED
SIDEWALK PER MAG STD 236-1
1"=5'



R9
12
DIRECTIONAL CURB RAMP
PER MAG STD DTL 237-1
1"=5'



R10
13
DIRECTIONAL CURB RAMP & TYPE C
PER MAG 237-1 & ADOT STD C-05.30
1"=5'

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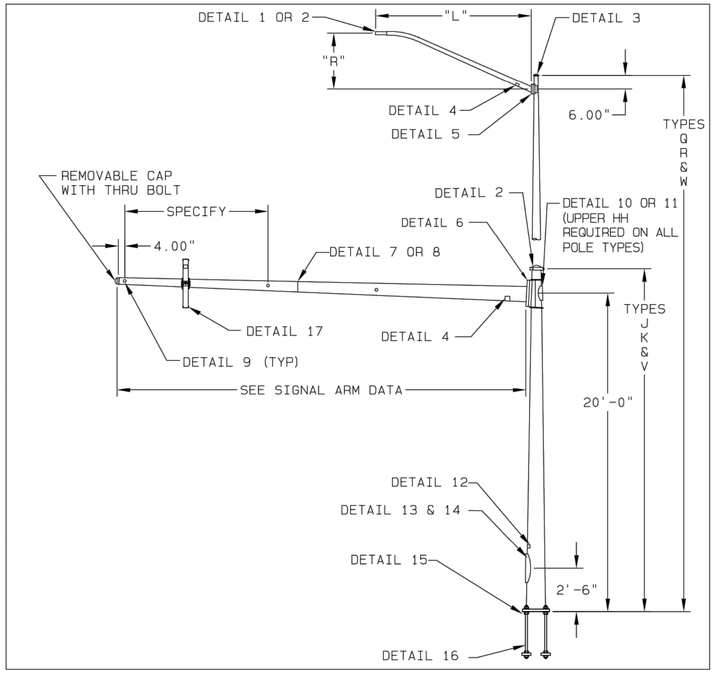
DRAFT
Registered Professional Engineer
ARIZONA U.S.A.

PSOMAS	333 E WETMORE ROAD, SUITE 450 TUCSON, AZ 85705 520.292.2300	
SCALE: N.T.S	APPROVED BY:	DRAWN: JV, RC, AP
DATE: 8/31/23		C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE		
DETAILS		35 OF: 38



THE MAST ARM TRAFFIC STRUCTURES SHOWN ON THIS DRAWING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE LOADING AND THE ALLOWABLE STRESS REQUIREMENTS OF THE 2013 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", SIXTH EDITION, LTS-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:

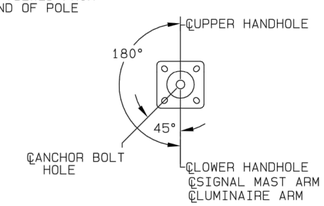
- STRUCTURES ARE DESIGNED TO RESIST NATURAL WIND GUSTS BASED ON THE YEARLY MEAN WIND VELOCITY OF 11.2 MPH.
- STRUCTURES ARE NOT DESIGNED TO RESIST GALLOPING-INDUCED CYCLIC LOADS.
- STRUCTURES ARE DESIGNED FOR TRUCK-INDUCED GUST LOADS, AS REQUIRED BY THE OWNER OF THE STRUCTURES.
- THE WIND LOADS WERE 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 85% EFFECTIVE OVER ENTIRE RANGE OF STRUCTURES.
- THE VIBRATION MITIGATION DEVICE SHALL BE AN ACTIVE, NON-AERODYNAMIC 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 3RD 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 SIMPLEX PLATES	A36	36
SIGNAL ARM CONNECTING BOLTS	F3125 GR.A325	
LUMINAIRE ARM CONNECTING BOLTS	F3125 GR.A325	
ANCHOR BOLTS	F1554 GR.55	55
ANCHOR BOLT NUTS	A563 GR. DH	
ANCHOR BOLT WASHERS	F436	
GALVANIZING-HARDWARE	F2329	

ALL ANGLES MEASURED CLOCKWISE FROM HAND HOLE AS VIEWED FROM SMALL END OF POLE



RADIAL INDEX

SIGNAL ARM DATA

TYPE	QTY.	ARM SPAN "S" (FT)	LARGE END DIA. (IN)	SMALL END DIA. (IN)	GAUGE OR THICK (IN)	SECTION LENGTH (FT)	ARM PLATE CENTER HOLE (IN)
J & Q		20	9.00	6.20	7	20	7.00
		25	9.00	5.50	7	25	7.00
		30	10.00	5.80	7	30	7.00
		35	10.50	5.60	7	35	8.00
		40	11.00	5.40	7	40	8.00
K & R		45	12.50	6.20	5	45	8.00
		50	12.50	5.50	5	50	8.00
		55	12.50	6.62	3	42.00	7.00
			6.50	4.67	7	13.00	
V & W		60	13.50	10.79	0.250	19.35	7.00
			11.50	5.45	7	43.24	
		65	13.50	10.79	0.250	19.35	7.00
			11.50	4.75	7	48.25	

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	3.61	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	4.65	2.40	11	4.75
	18.00	5.10	2.40	11	5.75
	20.00	5.90	3.00	7	5.75

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 "B" (IN)	BOLT CIRCLE "C" (IN)	CENTER HOLE DIA. (IN)	THK. "D" (IN)	SLOT/HOLE SIZE "Z" (IN)	DIA. (IN)	LENGTH (IN)	PLATE SIZE "e" X"f" X "g" (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
	Q	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

Registered Professional Engineer (Civil) CERTIFICATE NO. 47872 STEPHEN R. OSBORN DATE SIGNED ..... ARIZONA U.S.A.

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

REV	DRAWN BY-DATE	CHECK BY-DATE	DESCRIPTION
—	RBC2 05/02/23	RBC2 05/02/23	— — — — — — — — — — — — — — —

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

valmont
Valley,NE 68064
(402) 359-2201

PAGE NUMBER: 1 OF 5
DRAWING NUMBER DB01403
REV

FOR REFERENCE ONLY DETAILS

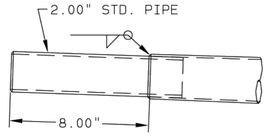
Know what's **below.** **Call** before you dig. 811

SEAL DRAFT 8/31/23 signed ARIZONA U.S.A.

PSOMAS
333 E WETMORE ROAD, SUITE 450
TUCSON, AZ 85705
520.292.2300

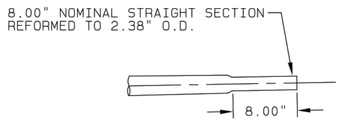
SCALE: N.T.S | APPROVED BY: | DRAWN: JV, RC, AP
DATE: 8/31/23 | C.I.P NO.
SAN LUIS I LAND PORT OF ENTRY OFFSITE
DETAILS | 36 OF 38

Plotted — 8/31/2023 7:06:37 PM :: Saved — 8/30/2023 10:35:02 AM :: S:\SJN\020200 - San Luis 1 LPOE\CADD\Design\Sheets\OFFSITE\VZK604.dwg :: alejandro.pulido



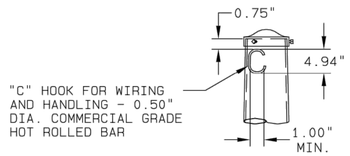
20' LUMINAIRE ARMS ONLY

DETAIL 1 | LUMINAIRE ARM END TENON

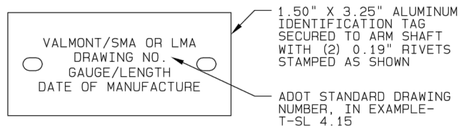


6',8',10,12, & 15' LUMINAIRE ARMS ONLY

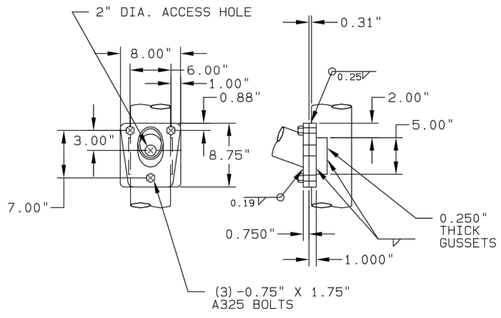
DETAIL 2 | LUMINAIRE ARM REFORMED END



DETAIL 3 | POLE TOP

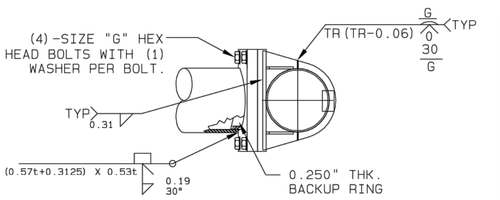


DETAIL 4 | ARM IDENTIFICATION TAG

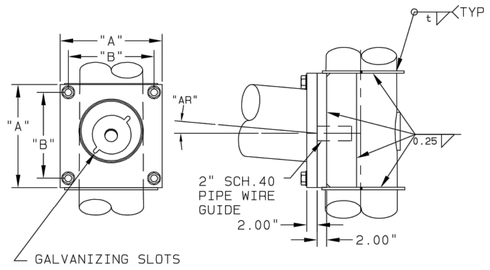


NOT REQUIRED ON J-MOD & K-MOD

DETAIL 5 | LUMINAIRE ARM ATTACHMENT



0.375" THICK GUSSETS

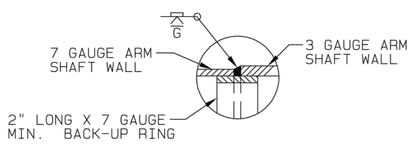


NOTE: "AR" IS ARM RISE. ARM RISE IS CALCULATED USING THE MAXIMUM LOADINGS. ALL ARMS WILL BE PROVIDED WITH THE RISE DERIVED FROM MAXIMUM LOADINGS.

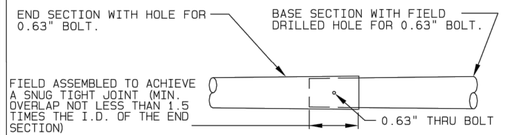
SIGNAL ARM ATTACHMENT DATA

MAST ARM	"AR"	"A"	"B"	"G"
20'	0.50°	21.00	17.00	1.50" X 4.25"
25'	0.50°	21.00	17.00	1.50" X 4.25"
30'	1.00°	21.00	17.00	1.50" X 4.25"
35'	1.50°	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'	2.50°	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 6 | SIGNAL ARM ATTACHMENT

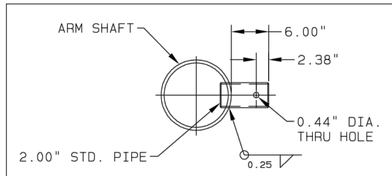


DETAIL 7 | 55' ARM SPLICE

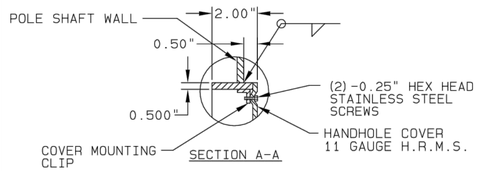


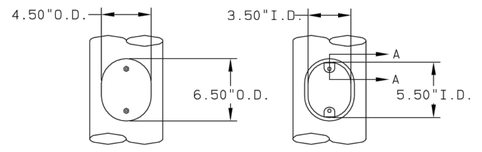
60' & 65' ARMS ONLY

DETAIL 8 | SIGNAL ARM SLIP JOINT

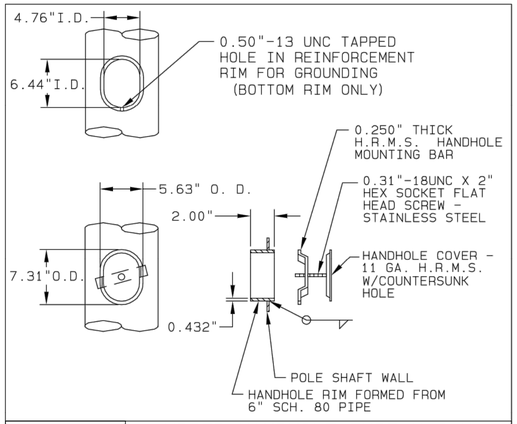


DETAIL 9 | SIGNAL ARM TENON

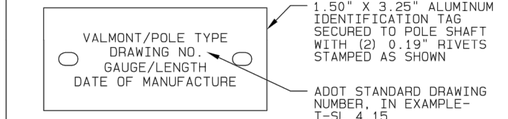




DETAIL 10 | UPPER HANDHOLE-TYPE Q & R



DETAIL 11 | UPPER HANDHOLE-TYPE W & V



DETAIL 12 | POLE IDENTIFICATION TAG

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

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

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DATE: 8/31/23		C.I.P NO.

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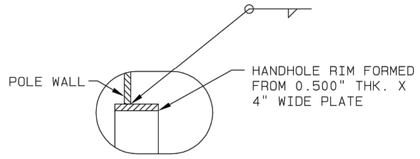
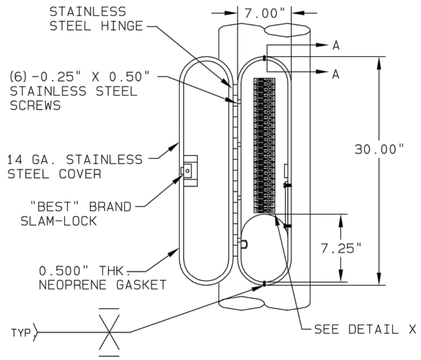
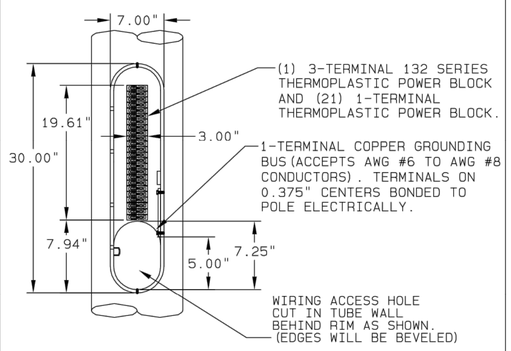
DETAILS
37 OF: 38



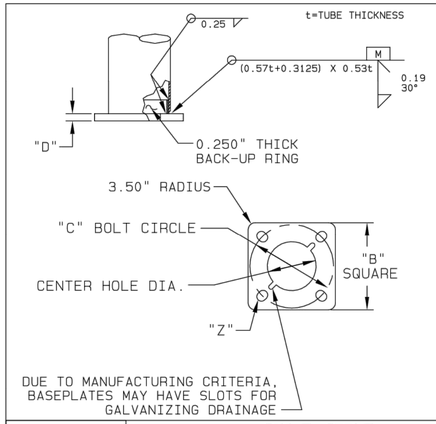
SECTION A-A



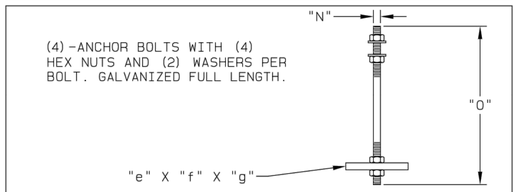
DETAIL 13 | TERMINAL COMPARTMENT W/HINGED COVER



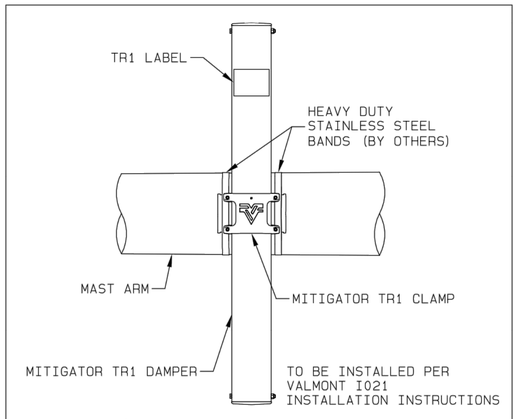
DETAIL 14 | TERMINAL BLOCKS



DETAIL 15 | POLE BASE



DETAIL 16 | ANCHOR BOLT



DETAIL 17 | TR1 MITIGATOR

TITLE ~~CITY OF GOODYEAR~~
TYPE J, K, Q, R, V & W POLES
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