

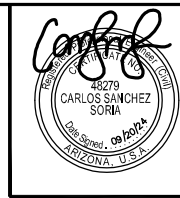
CITY OF PHOENIX

STREET TRANSPORTATION DEPARTMENT

DESIGN AND CONSTRUCTION MANAGEMENT DIVISION

PHOENIX SIDEWALK SHADE STRUCTURES

ST85170116-1



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	1	42	*

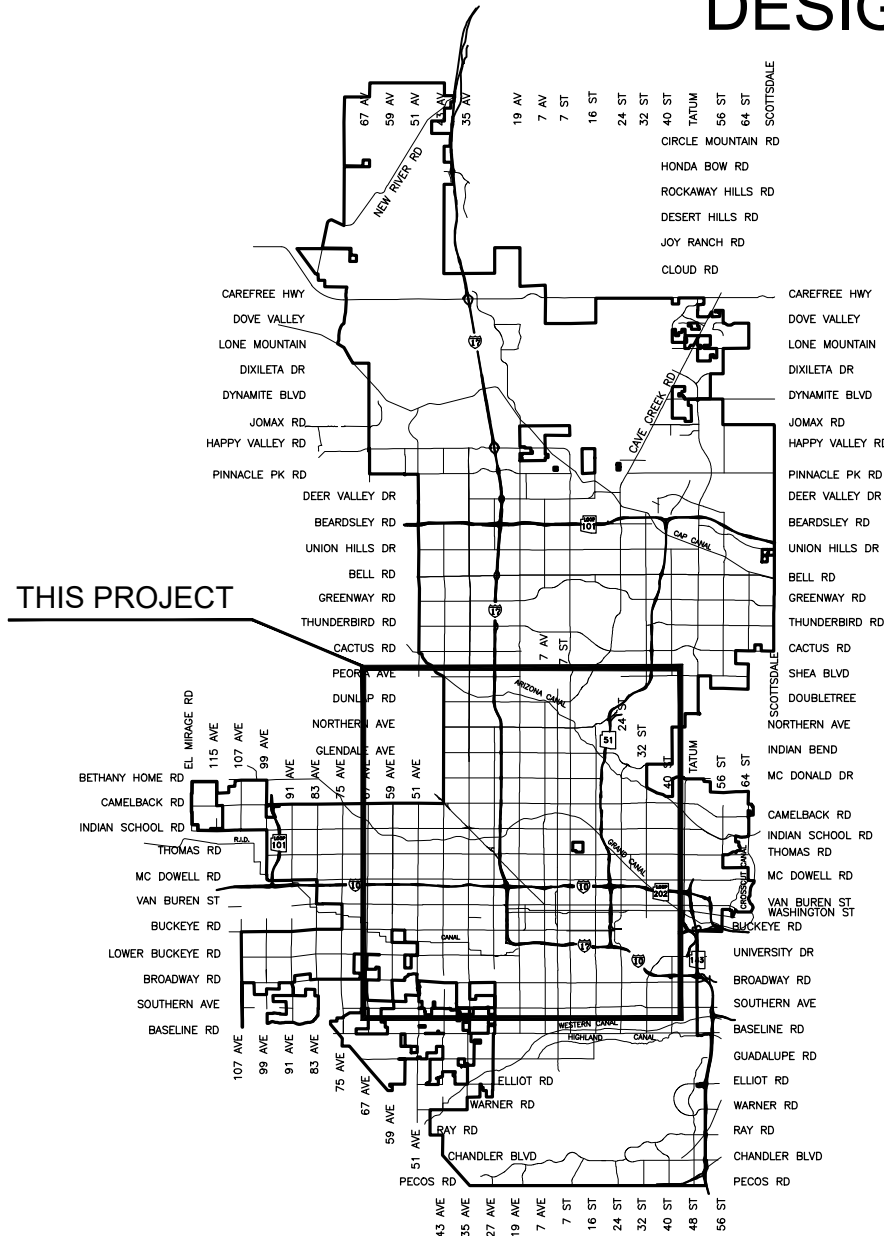
TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER
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MAYOR
KATE GALLEGO

CITY MANAGER
JEFFREY BARTON

CITY COUNCIL

- | | |
|----------------|------------------------|
| DISTRICT NO 1. | ANN O'BRIEN |
| DISTRICT NO 2. | JIM WARING |
| DISTRICT NO 3. | DEBRA STARK |
| DISTRICT NO 4. | LAURA PASTOR |
| DISTRICT NO 5. | BETTY GUARDADO |
| DISTRICT NO 6. | KEVIN ROBINSON |
| DISTRICT NO 7. | CARLOS GALINDO-ELVIRA |
| DISTRICT NO 8. | KESHA HODGE WASHINGTON |



VICINITY MAP
NTS

APPROVED:
 ASSISTANT STREET TRANSPORTATION DIRECTOR
 DATE: 09/24/2024

APPROVED:
 DEPUTY STREET TRANSPORTATION DIRECTOR
 DATE: 09/24/2024

UTILITIES

SRP	ANDRE BENAVIDEZ	602-236-3586
RID	NO FACILITIES	
APS	BOBBY GARZA	602-361-6840
SOUTHWEST GAS	VALERIE GALLARDO-WELLER	602-484-5342
LUMEN	JORDAN GAARD	318-388-9000
COX	JACOB HORSMAN	480-869-1978
ZAYO	ALEX ROGERS	480-307-6923
COP WATER & SEWER	MATTHEW A. BRYAN	602-261-8363
VALLEY METRO	GARY PURR	602-322-4440
CROWN CASTLE	JOSE MADRIGAL	480-735-6925
COP ITS	IVAN MORALES	602-819-2361
COP SIGNALS	MATT WILSON	480-519-6963
MCI - VERIZON	RONDA ARNOLD	480-952-4139

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PROJECT AREA OF DISTURBANCE = 0.058 ACRES



PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX.

PROJECT NUMBER: ST85170116-1 PHOENIX SIDEWALK SHADE STRUCTURES - 100% SUBMITTAL

NOTES

ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIAL PROVISIONS AND DETAILS, CITY OF PHOENIX SUPPLEMENTS TO MAG STANDARD SPECIFICATIONS AND DETAILS, AND MAG STANDARD SPECIFICATIONS AND DETAILS, IN THAT ORDER OF PRECEDENCE, AT THE TIME OF CONSTRUCTION BID.

ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS.

PIPE CONNECTIONS TO EXISTING CONCRETE PIPE MAINS SHALL BE MADE IN ACCORDANCE WITH DETAILS CALLED OUT ON THE PLANS. CONNECTION TO MAINS SHALL NOT BE CLOSER THAN 5' CENTER TO CENTER.

PIPE CONNECTIONS TO NEW PRECAST CONCRETE PIPE MAINS, SHALL BE MADE WITH FACTORY MADE WYES OR TEES. THE DETAIL OF THE FITTINGS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. PIPE CONNECTIONS TO NEW CAST IN PLACE CONCRETE PIPE MAINS SHALL BE MADE PER C.O.P. DETAIL P-1576.

CATCH BASIN CONNECTOR PIPES SHALL BE LAID ON A STRAIGHT ALIGNMENT AND SLOPE UNLESS OTHERWISE SPECIFIED. IF BREAKS IN ALIGNMENT OR SLOPE ARE NECESSARY TO MEET FIELD CONDITIONS, THE MAXIMUM DEFLECTION SHALL BE 22-1/2 DEGREES. THE BEND SHALL BE COLLARED ACCORDING TO M.A.G. DETAIL 505. ANY ANGLE BENDS GREATER THAN 22-1/2 DEGREES SHALL BE PREFABRICATED.

CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22-1/2 DEGREES FROM PERPENDICULAR.

FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS, ARE LOCATED ONLY APPROXIMATELY AND TO THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION AND COMPLETENESS OF THIS INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INITIATION OF CONSTRUCTION.

TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BLUESTAKE TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON BLUESTAKE SYSTEM.

VERTICAL CONTROL IS BASED ON PHOENIX DATUM NGVD-29

UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE.

UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200.

CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN.

SANITARY SEWER MAINS AND TAPS CROSSING OVER STORM DRAIN MAINS SHALL BE SUPPORTED PER M.A.G. DETAIL 403-1, 403-2, OR 403-3.

ALL EXISTING PRECAST CONCRETE SAFETY CURBS AND ALL EXISTING WOODEN PARKING CURBS, WHICH ARE INSIDE THE RIGHT OF WAY AND APPROXIMATELY PARALLEL TO THE NEW CURB LINE, SHALL BE RESET ON THE RIGHT OF WAY DIRECTLY OPPOSITE THEIR EXISTING LOCATION, WITH THE BACK EDGE ON THE RIGHT OF WAY LINE. ALL OTHER PRECAST CONCRETE SAFETY CURBS INSIDE THE STREET RIGHT OF WAY SHALL BE SALVAGED AND STOCK PILED FOR THE OWNER AT THE RIGHT OF WAY LINE.

EXISTING PRECAST CONCRETE SAFETY CURBS OUTSIDE THE RIGHT OF WAY, WHICH ARE DISTURBED BY NEW CONSTRUCTION SHALL BE RESET IN THEIR ORIGINAL POSITION BY THE CONTRACTOR.

ALL EXISTING DRIVEWAYS AND ALL EXISTING ALLEYS SHALL BE GRADED TO MATCH THE NEW WORK IN ACCORDANCE WITH STD. DETAIL P-1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY.

UNLESS OTHERWISE PROVIDED ON THE PLANS, EXISTING A.C. OR P.C.C. DRIVEWAYS AND SIDEWALKS WHICH FALL WITHIN OR ABUT THE RIGHT OF WAY SHALL BE CONNECTED TO THE NEW WORK AS FOLLOWS:

THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING A.C. DRIVEWAYS SHALL BE FILLED WITH A MINIMUM OF 3" A.C.S.C. ON 100% COMPACTED NATIVE SOIL. WHERE EXISTING PAVEMENT AND BASE THICKNESS EXCEED THE MINIMUMS, MATCH THE EXISTING.

THE SPACE BETWEEN THE BACK OF NEW SIDEWALKS AND EXISTING PRIVATE SIDEWALKS, AND THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING P.C.C. DRIVEWAYS SHALL BE FILLED WITH P.C.C.. THE THICKNESS AND CLASS SHALL MATCH THAT OF THE NEW SIDEWALK OR DRIVEWAY ENTRANCE.

UNLESS OTHERWISE PROVIDED ON THE PLANS, THE SPACE BETWEEN THE BACK OF THE NEW SIDEWALKS, AND EXISTING A.C. PARKING LOTS, WHICH FALL WITHIN OR ABUT THE R/W SHALL BE FILLED WITH 2" A.C.S.C. ON 100% COMPACTED NATIVE SOIL.

EXISTING IRRIGATION BERMS DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED AS SHOWN ON PLANS.

M.A.G. ALLEY ENTRANCE DETAILS 260, 261, 262 AND 263, WHICH ARE INDICATED TO BE MODIFIED ON THESE PLANS SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL NUMBER EXCEPT THAT THE SLAB SHALL BE 9" THICK. DRIVEWAYS DESIGNATED ON THE PLANS AS M.A.G. DETAILS 250 AND 251 SHALL BE RESIDENTIAL DRIVEWAYS 5" THICK. ALL OTHER DRIVEWAYS SHALL BE CITY OF PHOENIX DETAILS P1255.

CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER C.O.P. DETAIL P1561.

STRUCTURAL NOTES

"CLEAR" DIMENSIONS FOR DEPTH OF REINFORCING STEEL ARE FROM FACE OF CONCRETE TO FACE OF BARS.

ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.

ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ADOT STANDARD SPECIFICATION 601-3.05 - FINISHING FORMED CONCRETE, UNLESS OTHERWISE SPECIFIED.

TRAFFIC SIGNAL NOTES

1. GENERAL NOTES: CONTRACTOR AS REFERENCED HEREIN IS THE ROADWAY CONTRACTOR.

1.1 THE CONTRACTOR SHALL NOTIFY THE CITY OF PHOENIX TRAFFIC SIGNAL SHOP (602-262-6733) A MINIMUM OF FOURTEEN (14) CALENDAR DAYS PRIOR TO BEGINNING ANY TRAFFIC SIGNAL WORK. SUBMITTALS OF ALL EQUIPMENT SHALL BE FURNISHED TO THE SIGNAL SHOP AND APPROVED PRIOR TO ORDERING ANY TRAFFIC SIGNAL EQUIPMENT. THE CONTRACTOR SHALL VERIFY THEY HAVE THE CURRENT APPROVED PLAN SET PRIOR TO STARTING AND ORDERING ANY EQUIPMENT.

1.2 THE CONTRACTOR SHALL LAYOUT ALL ADA RAMPS, JUNCTION BOXES AND FOUNDATION LOCATIONS FOR APPROVAL BY A TRAFFIC SIGNAL REPRESENTATIVE. CONTRACTOR MUST HAVE A CURRENT VISIBLE BLUESTAKE SHOWING ALL UTILITIES. ALL ADA RAMPS SHALL BE LAID OUT IN WHITE MARKING PAINT TO DETERMINE BEST TRAFFIC SIGNAL POLE LOCATIONS.

1.3 TRAFFIC SIGNAL PLAN APPROVAL IS VALID FOR 365 CALENDAR DAYS FROM DATE SEALED. IF SIGNAL CONSTRUCTION HAS NOT BEGUN PRIOR TO THE 365 DAYS ELAPSING, THE SIGNAL PLANS MUST BE RE-SUBMITTED FOR APPROVAL OR AN EXTENSION GRANTED BY THE DEPUTY DIRECTOR OF TRAFFIC SERVICES OR AN AUTHORIZED REPRESENTATIVE TO ENSURE THAT EXISTING TRAFFIC SIGNAL EQUIPMENT LOCATIONS AND STANDARD DETAIL REFERENCES ARE CURRENT.

1.4 ALL TRAFFIC SIGNAL EQUIPMENT AND MATERIALS SHALL FOLLOW THE CURRENT CITY OF PHOENIX TRAFFIC SIGNAL STANDARD DETAILS AND SPECIFICATIONS (WWW.PHOENIX.GOV/STREETS/REFERENCE-MATERIAL). THE CONTRACTOR SHALL HAVE A COPY OF THESE STANDARDS ALONG WITH A COMPLETE SET OF APPROVED PLANS ON SITE AT ALL TIMES DURING SIGNAL AND LIGHTING SYSTEMS CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COMPETENT SUPERVISOR CAPABLE OF READING AND UNDERSTANDING PLANS AND SPECIFICATIONS AND THOROUGHLY EXPERIENCED IN THE CONSTRUCTION OF TRAFFIC SIGNALS. THE CONTRACTOR'S SUPERVISOR OR LEAD SHALL POSSESS A CURRENT INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMSA) LEVEL II TRAFFIC SIGNAL ELECTRICIAN CERTIFICATION AND MUST BE ON SITE DURING ANY TRAFFIC SIGNAL CONSTRUCTION ACTIVITIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY VERIFICATION OF CERTIFICATION. IF A JOBSITE IS INSPECTED AND A CERTIFIED ELECTRICIAN IS NOT ON SITE, A STOP WORK ORDER WILL BE ISSUED.

1.5 THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT; ITS PLANNING, SAFETY, QUALITY AND COMPLETION. THE CITY OF PHOENIX INSPECTION TEAM WOULD MAKE THE DETERMINATION IF THE WORK PERFORMED MEETS THE CRITERIA AND IF NOT, MAY REQUEST THAT THE WORK BE REDONE AT THE CONTRACTOR'S EXPENSE.

1.6 FOUNDATION ELEVATIONS MUST BE WITHIN 1/4" OF FINISHED SIDEWALK GRADE.

1.7 A MINIMUM OF A FOUR (4) FOOT CLEAR PATH IS REQUIRED AROUND ALL TRAFFIC SIGNAL POLES. A FOUR BY FOUR (4X4) FLAT LANDING CENTERED ON THE PEDESTRIAN PUSH BUTTON MUST BE MAINTAINED AS PROVIDED ON THE LATEST TRAFFIC SIGNAL STANDARD DETAILS (SEE NOTE 1.4).

2. WORK TO BE PERFORMED BY THE CONTRACTOR

2.1 THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING PER THE LATEST TRAFFIC SIGNAL STANDARD DETAILS (SEE NOTE 1.4).

- ALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) PUSH BUTTONS TO BE INSTALLED ON EXISTING TRAFFIC SIGNAL POLES AS INDICATED IN THESE PLANS.
• ALL WIRING ALL WIRING NECESSARY FOR APS INSTALLATION WITHIN EXISTING CONDUITS.

3. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS

- THE TRAFFIC SIGNAL REPRESENTATIVE SHALL INSPECT AND APPROVE ALL TRAFFIC SIGNAL EQUIPMENT INSTALLED BY CONTRACTOR AND TERMINATE, TEST AND ACTIVATE ALL FIELD WIRING INTO CONTROLLER CABINET.

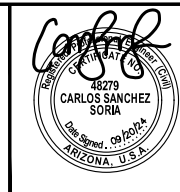


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ROOSEVELT IRRIGATION DISTRICT (RID) GENERAL NOTES:

- 1. THE TERM "DISTRICT" IN THESE NOTES AND PLANS SHALL REFER TO THE ROOSEVELT IRRIGATION DISTRICT.
2. THE DISTRICT CONSTRUCTION OBSERVER MUST APPROVE THE SCHEDULING OF ALL CONSTRUCTION ACTIVITIES WITHIN THE DISTRICT RIGHT-OF-WAY OR EASEMENT.
3. ALL CONSTRUCTION PLANS AFFECTING DISTRICT FACILITIES MUST BE REVIEWED AND APPROVED BY THE DISTRICT.
4. THE CONTRACTOR SHALL CONTACT THE DISTRICT'S CONSTRUCTION OBSERVER AT (602) 284-7017, A MINIMUM OF 14 CALENDAR DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A RIGHT-OF-WAY CROSSING PERMIT FROM THE DISTRICT BEFORE ANY WORK CAN COMMENCE WITHIN DISTRICT RIGHT-OF-WAY OR EASEMENT.
6. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW BY THE DISTRICT'S ENGINEER AS MAY BE NECESSARY FOR THE EXECUTION OF THE WORK AND AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.
7. ALL EXISTING DISTRICT FACILITIES DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED TO CURRENT DISTRICT STANDARDS.
8. ALL CONSTRUCTION INCLUDING, BUT NOT LIMITED TO: EQUIPMENT, FENCING, SPOILS, ETC. MUST REMAIN OUTSIDE OF DISTRICT RIGHT-OF-WAY OR EASEMENT UNLESS OTHERWISE APPROVED BY THE DISTRICT CONSTRUCTION OBSERVER.
9. EXISTING DISTRICT FACILITIES MUST REMAIN OPERATIONAL AND SHALL NOT BE DISTURBED OR RENDERED INACCESSIBLE TO DISTRICT OPERATIONS AND MAINTENANCE STAFF.
10. UTILITIES INCLUDE ANY WATER, SEWER, RECLAIMED WATER, GAS, ELECTRICAL, LANDSCAPE IRRIGATION, COMMUNICATION, ETC.
11. ALL STAKING OF PROPOSED UTILITIES MUST BE COMPLETED AND APPROVED BY DISTRICTS CONSTRUCTION OBSERVER PRIOR TO ALL CONSTRUCTION.
12. ALL CROSSINGS MUST BE BORED WHILE RID'S FACILITIES ARE ACTIVE. OPEN TRENCH CONSTRUCTION ONLY DURING RID'S ANNUAL DRY-UP.
13. MINIMUM OPEN TRENCH CLEARANCE FROM OUTSIDE EXISTING RID FACILITY TO OUTSIDE PROPOSED UTILITY:
a. UTILITY RUNS PARALLEL 2' HORIZONTAL
b. UTILITY CROSSES PERPENDICULAR 1' VERTICAL BELOW
c. ABOVE GROUND UTILITY 4' HORIZONTAL

ROOSEVELT IRRIGATION DISTRICT (RID) GRADING NOTES:

- 1. THE CONTRACTOR SHALL PROVIDE SMOOTHLY AND EVENLY GRADED FINISHED GROUND SURFACES ABOUT ALL DISTRICT FACILITIES WITHIN THE PROJECT AREA AND BLEND SMOOTHLY INTO EXISTING GRADES.
2. THE CONTRACTOR SHALL IMPORT ADDITIONAL FILL MATERIAL OR EXPORT EXCESS CUT MATERIAL AS REQUIRED TO PROVIDE SATISFACTORY FINISHED GRADING ABOUT DISTRICT FACILITIES AS INDICATED ON THE APPROVED PLANS OR AS DIRECTED BY THE DISTRICT CONSTRUCTION OBSERVER.
3. FINISHED SURFACES SHALL BE GRADED TO DIRECT DRAINAGE AWAY FROM DISTRICT FACILITIES.
4. O&M ROADS ADJACENT TO CANAL PRISM SHALL BE CONSTRUCTED WITH A MINIMUM ELEVATION 6" ABOVE ADJACENT FIELDS AND A 2% CROSS SLOPE AWAY FROM CANAL PRISM AREA UNLESS OTHERWISE NOTED.

ROOSEVELT IRRIGATION DISTRICT (RID) LANDSCAPE NOTES:

- 1. CONTRACTOR/INSTALLER TO MARK A NO-TREE ZONE - AT 50' INTERVALS, WHICH WILL INCLUDE THE CENTERLINE OF RID PIPE AND A 12' OFFSET BOTH SIDES OF RID PIPE. ALL PLANTINGS WITHIN THIS ZONE TO BE CONFIRMED TO MATCH PLANS PRIOR TO INSTALLATION.
2. PLANT IDENTIFICATION TAGS FOR ALL PLANTINGS WITHIN NO-TREE ZONE TO REMAIN ON PLANTS UNTIL RID CONSTRUCTION OBSERVER HAS CONFIRMED AND ACCEPTED PLANTING LOCATION.
3. ANY PLANTINGS NOT SPECIFICALLY INDICATED IN APPROVED LANDSCAPE PLANS CANNOT BE SUBSTITUTED WITHOUT RID REVIEW AND WRITTEN CONSENT.
4. SEE RID GENERAL NOTES.

ROOSEVELT IRRIGATION DISTRICT (RID) STREET LIGHT AND TRAFFIC SIGNAL NOTES:

- 1. ALL NEW STREET LIGHT & TRAFFIC SIGNAL CONSTRUCTION TO BE STAKED IN ADVANCE AND THE RID CONSTRUCTION OBSERVER TO VERIFY FOR COMPLIANCE WITH MINIMUM CLEARANCES TO RID FACILITIES. SEE RID GENERAL NOTES.

ROOSEVELT IRRIGATION DISTRICT (RID) SIGNAGE & STRIPING NOTES:

- 1. ALL NEW SIGNAGE CONSTRUCTION TO BE STAKED IN ADVANCE AND THE RID CONSTRUCTION OBSERVER TO VERIFY FOR COMPLIANCE WITH MINIMUM CLEARANCES TO RID FACILITIES. SEE RID GENERAL NOTES.



CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. *PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

GENERAL NOTES

CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT

PHOENIX SHADE STRUCTURES

ST85170116-1

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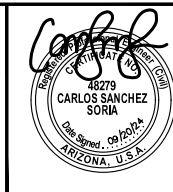
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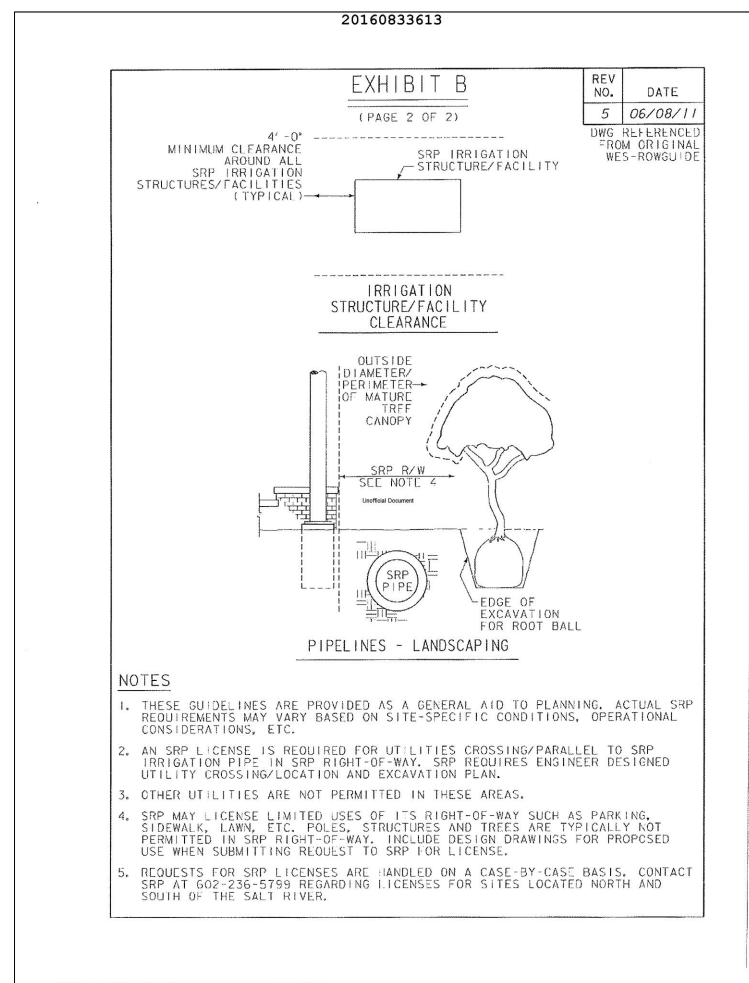
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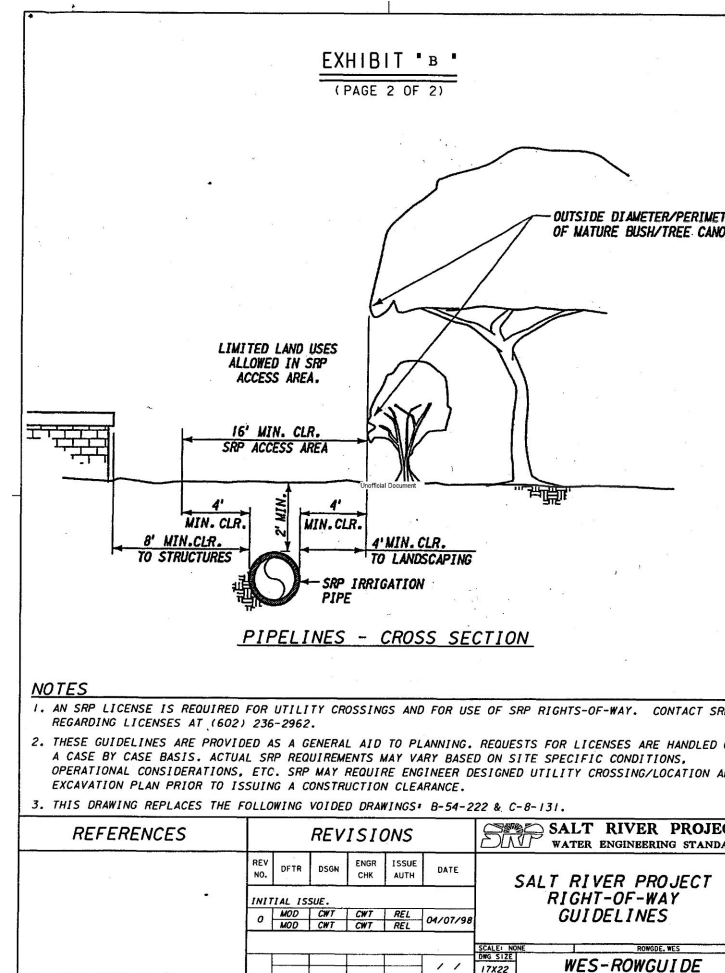
LEGEND

- ▲ BENCHMARK
- NEW SURVEY MONUMENT - M.A.G. DETAIL 120-1 TYPE "B"
- NEW SURVEY MONUMENT - M.A.G. DETAIL 120-1 TYPE "A"
- EXISTING SURVEY MONUMENT - M.A.G. DETAIL 120-1 TYPE "B"
- ▬ COMBINED CURB & GUTTER - M.A.G. DETAIL 220 TYPE "A"
- ▬ BACKFILL TYPE & SQ. YD. PVMT. REPLACEMENT - C.O.P. DETAIL P1200
- ▬ EXISTING CONCRETE PAVEMENT OR SIDEWALK
- ▬ NEW CONCRETE SIDEWALK - STD. DETAIL P-1230
- ▬ NEW CONCRETE DRIVEWAY OR ALLEY ENT. PER DETAIL NO. ON PLANS
- ▬ NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
- ∧ AVERAGE GROUND ELEVATION AT R/W LINE
- EXISTING DITCH
- ▬ 24" IR (SRP) EXISTING IRRIGATION LINE W/SIZE (NOTE PRIVATE, SALT RIVER OR R.I.D.)
- ▬ EXISTING IRRIGATION STRUCTURE
- EXISTING IRRIGATION STANDPIPE
- NEW IRRIGATION STANDPIPE - M.A.G. DETAIL 503
- ▬ NEW IRRIGATION VALVE - M.A.G. DETAIL 506 W/ CONC. SCOURING BASIN
- ▬ IRRIGATION BERM
- ▬ NEW IRRIGATION STRUCTURE PER DETAIL ON PLANS
- 12" DIP W --- EXISTING WATER LINE W/SIZE & TYPE (12" AND SMALLER)
- 36" DIP W --- EXISTING WATER LINE W/SIZE & TYPE (GREATER THAN 12")
- ADJUST EXIST. WATER VALVE BOX - C.O.P. DETAIL P1391
- 3/4" W □ WATER SERVICE W/SIZE AND WATER METER BOX
- EXISTING FIRE HYDRANT
- NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
- T.N. --- EXISTING WATER VALVE W/TOP OF OPERATING NUT ELEVATION
- 8" VCP S --- EXISTING SANITARY SEWER LINE W/SIZE & TYPE (12" AND SMALLER)
- 36" VCP S --- EXISTING SANITARY SEWER LINE W/SIZE & TYPE (GREATER THAN 12")
- EXISTING MANHOLE
- NEW MANHOLE
- ▬ CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
- ▬ CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
- ▬ 36" SD (SRP) EXISTING STORM DRAIN LINE W/SIZE & TYPE (GREATER THAN 12")
- ▬ NEW PIPE FOR STORM DRAIN OR IRRIGATION LINE
- 4" --- EXISTING GAS LINE W/SIZE
- E --- EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
- E-40 --- EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
- T --- EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
- T-40 --- EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
- CATV --- EXISTING UNDERGROUND CABLE TV
- FO --- EXISTING UNDERGROUND FIBER OPTIC LINE
- ▽ EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
- ▽ EXISTING STREET OR TRAFFIC SIGN
- ▽ EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
- ▽ EXISTING WIRE FENCE
- ▽ EXISTING BLOCK FENCE
- ▽ EXISTING WOOD FENCE
- ▽ MAIL BOX
- ▽ EXISTING POWER POLE DOWN GUY ANCHOR
- ▽ EXISTING STREET LIGHT & POLE
- ⊗ EXISTING TREE OR STUMP TO BE REMOVED - MORE THAN 12" DIA.
- ⊙ EXISTING TREE TO BE TRANSPLANTED BY CONTRACTOR
- EASEMENT LINE
- EXISTING OR NEW R/W LINE
- PAVEMENT CENTER LINE OR MONUMENT LINE
- ⊙ EXISTING TREE TO BE REMOVED (NON PAY ITEM)
- ⊙ EXISTING TREE TO REMAIN
- UTILITY POTHOLE

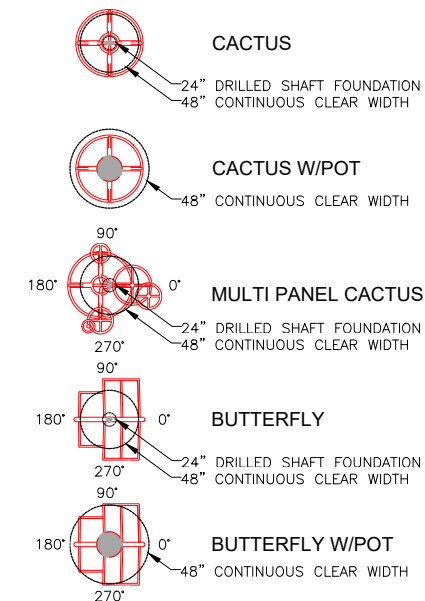
SRP IRRIGATION CLEARANCE



SRP IRRIGATION CLEARANCE



SHADE STRUCTURE TYPES



STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.

STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

REV. NO.	DATE	DESCRIPTION
5	06/08/11	DWG. REFERENCED FROM ORIGINAL WES-ROWGUIDE

Call at least two full working days before you begin excavation.

ARIZONA 811

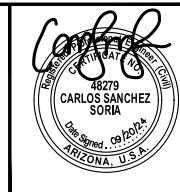
Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County: (602) 263-1100

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SCALE: N.T.S.					



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9	ARIZ.	ST85170116-1	4	42	*
DES: CSS		DR: ZD	CK: CSS	DATE: 09/24	

TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER

REVISION BY CITY OF PHOENIX

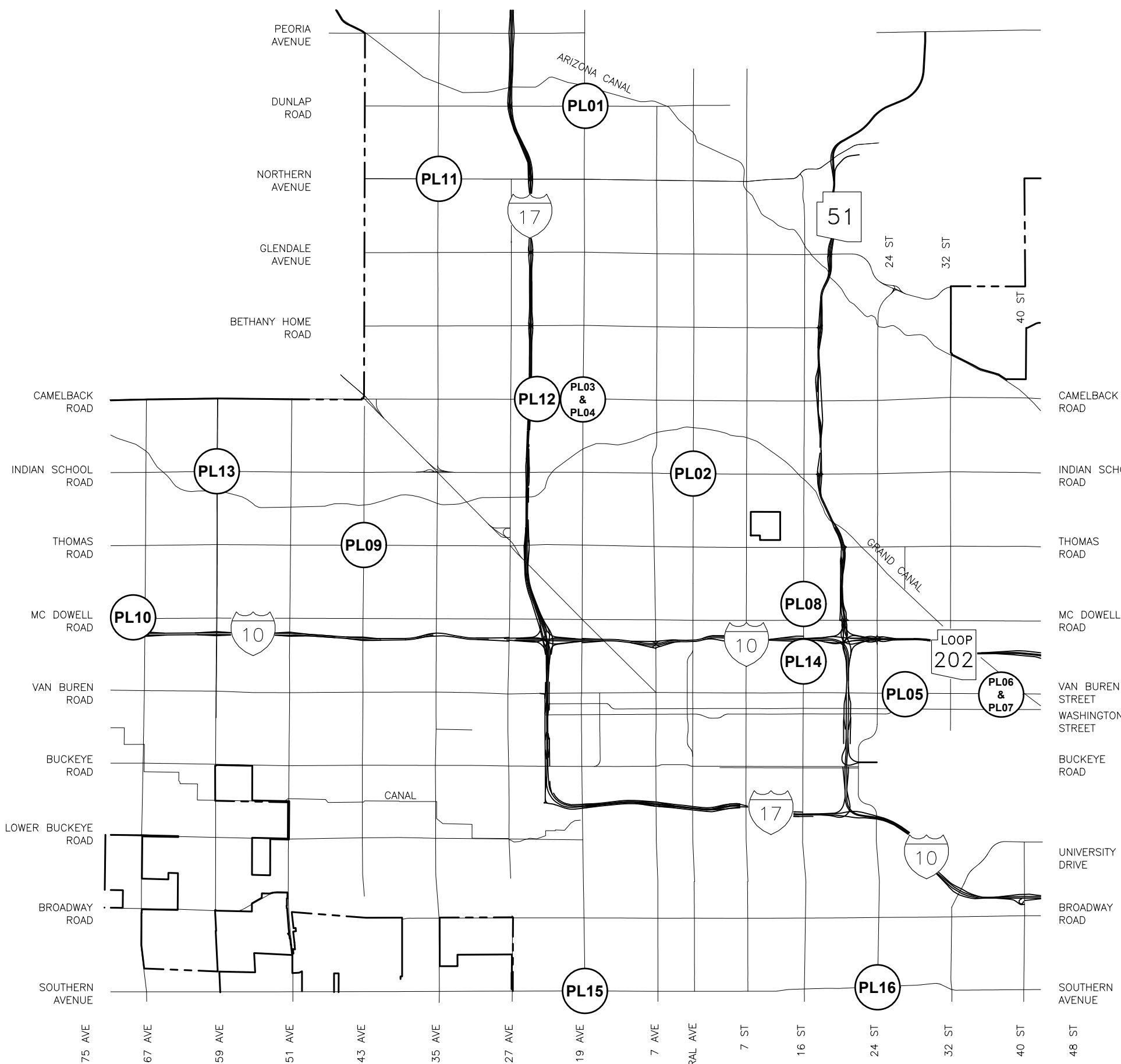
NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE



PL #	Sheet #	LOCATION	CORNER #	QUARTER SECTION
PL01	5	DUNLAP RD & 19TH AVE *	001,002,003	26-24, 26-25, 27-24, 27-25
PL02	6	INDIAN SCHOOL RD & CENTRAL AVE	005,006	16-27, 16-28, 17-27, 17-28
PL03	7	CAMELBACK RD & 19TH AVE *	007	18-24, 19-24, 19-25
PL04	8	CAMELBACK RD & 19TH AVE *	008	18-24, 19-24, 19-25
PL05	9	VAN BUREN ST & 28TH ST	009	10-33
PL06	10	VAN BUREN ST & 35TH ST	013	10-35, 11-36
PL07	11	VAN BUREN ST & 36TH ST	014	10-35, 10-36, 11-36
PL08	12	N OF MCDOWELL RD & 16TH ST	015	12-30, 12-31, 13-30
PL09	13	THOMAS RD & 43RD AVE	016	15-18
PL10	14	MCDOWELL RD & W OF 67TH AVE	018,019	12-12, 13-12
PL11	15	NORTHERN AVE & 35TH AVE *	021	25-21
PL12	16	CAMELBACK RD & 23RD AVE	022	19-24
PL13	17	INDIAN SCHOOL RD & 59TH AVE	023,024	16-14, 17-14
PL14	18	ROOSEVELT ST & 16TH ST	025,026,027	11-30, 11-31, 12-30, 12-31
PL15	19	SOUTHERN AVE & 19TH AVE	028,029	2-24, 3-25
PL16	20	SOUTHERN AVE & 24TH ST	030,031	3-32, 3-33

* ELIMINATED LOCATIONS

KEY MAP
NTS

CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.
PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

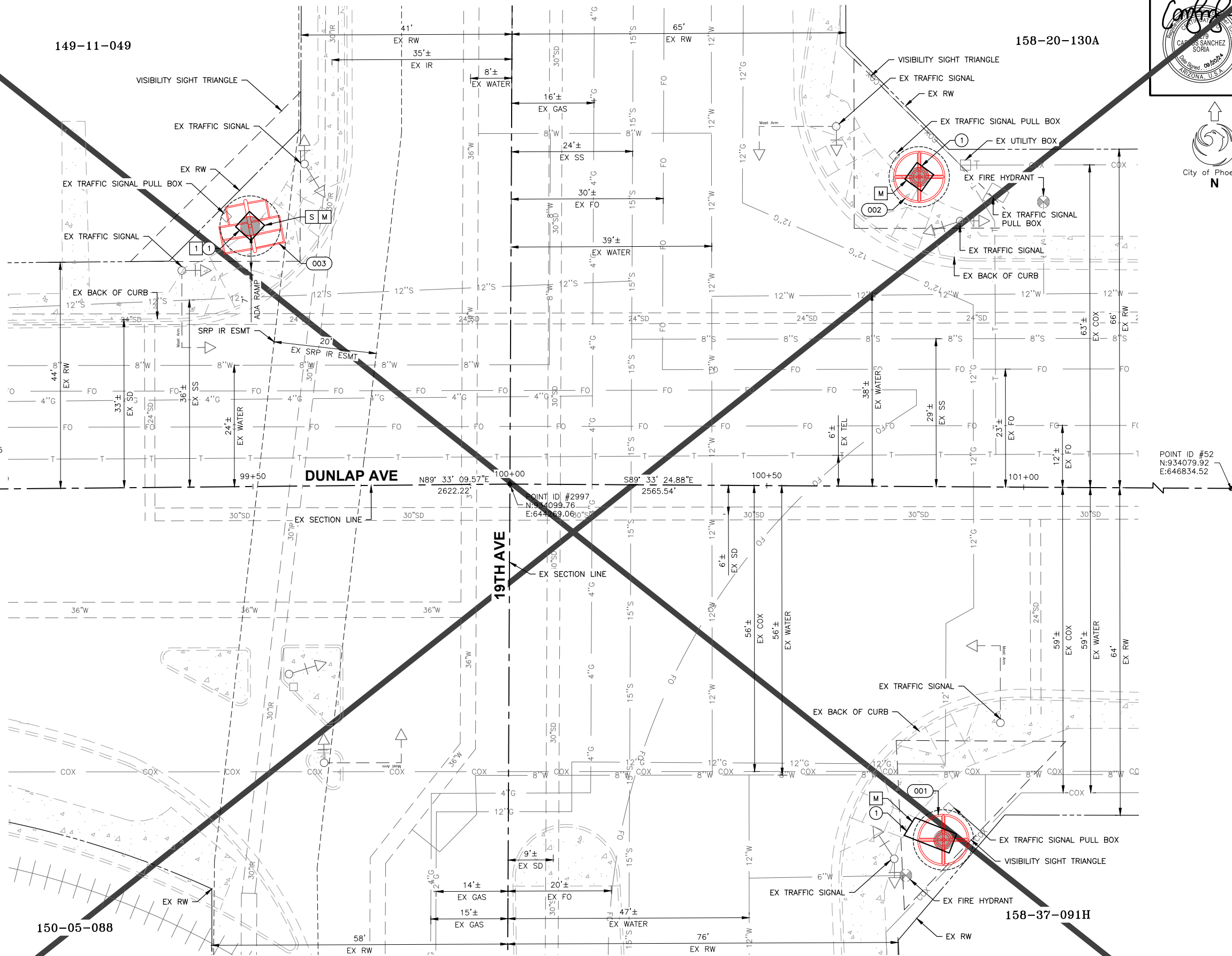
KEY MAP					
CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT					
PHOENIX SHADE STRUCTURES					
ST85170116-1					
DR:	DES:	CK:	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	4	42	*
SCALE: N.T.S.					

I:\ONT\Lin\PHX\3010100161\004\600_1\PS6\Highway\04_Sheets\185170116-1_KeyMap.dwg 9/23/2024 3:25:19 PM Zachary DeMark

Locations:
 #001, SW Corner
 #002, NE Corner
 #003, NW Corner

149-11-049

158-20-130A



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	5	42	*

TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER

DES: CSS DR: ZD CK: CSS DATE: 09/24

M MATCH EXISTING
 P PROTECT IN PLACE
 S SAWCUT AND MATCH EXISTING

REMOVALS			
NO.	DESCRIPTION	UNIT	QTY.
1	REMOVE EXISTING CONCRETE SIDEWALK	SF	10

CONSTRUCTION NOTES			
NO.	DESCRIPTION	UNIT	QTY.
1	CONSTRUCT CONCRETE SLAB FOR SHADE STRUCTURE, 6" THICK	SF	69

SHADE STRUCTURE TYPE & PLACEMENT		
NO.	STRUCTURE TYPE LOCATION	ORIENTATION ANGLE
001	CACTUS W/POT 100+84.78, 68.73' RT	N/A
002	CACTUS W/POT 100+79.30, 60.26' LT	N/A
003	BUTTERFLY W/POT 99+49.93, 50.69' LT	281°

REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE

HORIZONTAL DATUM
 NAD83 AZ STATE PLANE CENTRAL ZONE, INTERNATIONAL FEET
 PRIMARY BENCHMARK
 #2997 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF DUNLAP AVE & 19TH AVE
 ELEV=1223.97 NAD83 DATUM
 SECONDARY BENCHMARK
 #52 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF DUNLAP AVE & 15TH AVE
 ELEV=1227.21 NAD83 DATUM

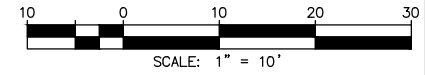
GENERAL NOTES
 AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
 EXISTING UTILITIES OBTAINED FROM CITY'S QUARTER SECTION MAPS (WATER,SEWER,STORM DRAIN) AND UTILITY MAPPING.
 EXISTING RIGHT OF WAY OBTAINED FROM CITY'S QUARTER SECTION MAPS.
 EXISTING SURVEY POINT INFORMATION OBTAINED FROM MARICOPA COUNTY LAND SURVEY'S MAP.
 STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.
 STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

THIS LOCATION HAS BEEN ELIMINATED.

UNCONFIRMED LOCATION

CAUTION!!! HIGH PRESSURE GAS LINE NEARBY!
 CONTRACTOR SHALL MAINTAIN THE FOLLOWING CLEARANCES TO EXISTING UTILITIES:
 6' HORIZONTAL CLEARANCE TO WATER AND SEWER PIPES
 4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
 2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

1. SEE SHEETS 21-25 FOR CONCRETE PAD CONTROL.



CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.
 PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

PLAN SHEET 01

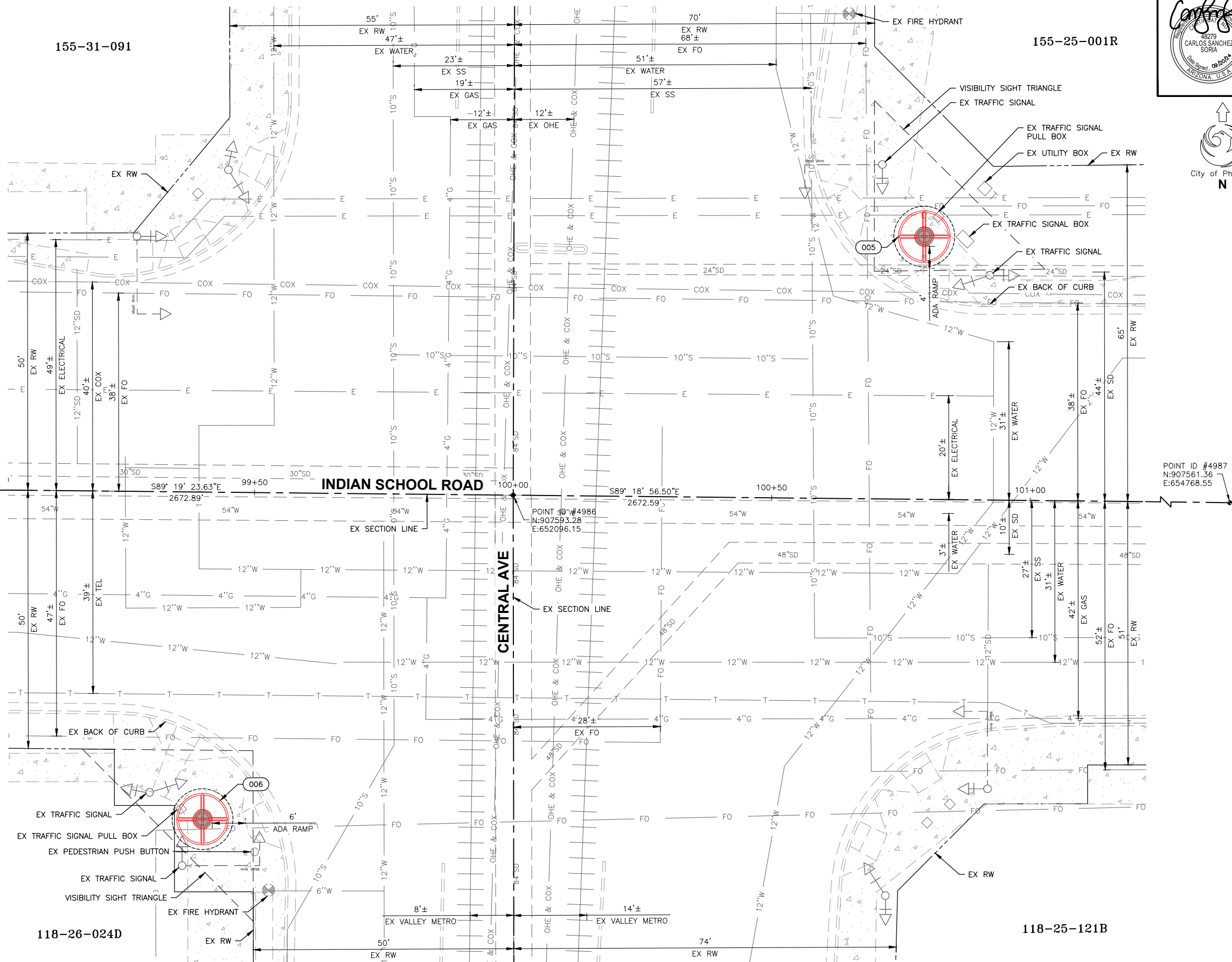
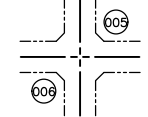
CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

PHOENIX SHADE STRUCTURES
 DUNLAP AVE & 19TH AVE
 ST85170116-1

DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	5	42	*

SCALE: 1" = 10'

Locations:
 #005, NE Corner
 #006, SW Corner



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT						
9	ARIZ.	ST85170116-1	6	42	*						
DES: CSS		DR: ZD	CK: CSS	DATE: 09/24							
TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER											
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<input type="checkbox"/> M	MATCH EXISTING										
<input type="checkbox"/> P	PROTECT IN PLACE										
<input type="checkbox"/> S	SAWCUT AND MATCH EXISTING										
SHADE STRUCTURE TYPE & PLACEMENT											
NO.	STRUCTURE TYPE	LOCATION	ORIENTATION ANGLE								
005	CACTUS W/POT	100+78.97, 50.83' LT	N/A								
006	CACTUS W/POT	99+40.56, 63.25' RT	N/A								

REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE

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 E:649423.45

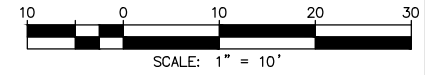
POINT ID #4987
 N:907561.36
 E:654768.55

POINT ID #4986
 N:907593.28
 E:652096.15

Call at least two full working days before you begin excavation.

ARIZONA 811
 Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
 In Maricopa County: (602) 263-1100



CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

PLAN SHEET 02

CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

**PHOENIX SHADE STRUCTURES
 INDIAN SCHOOL RD & CENTRAL AVE
 ST85170116-1**

DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	6	42	*

HORIZONTAL DATUM
 NAD83 AZ STATE PLANE-CENTRAL ZONE, INTERNATIONAL FEET
 PRIMARY BENCHMARK
 #4986 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF INDIAN SCHOOL RD & CENTRAL AVE
 ELEV=1113.32 NAD83 DATUM
 SECONDARY BENCHMARK
 #4987 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF INDIAN SCHOOL RD & 7TH ST
 ELEV=1114.92 NAD83 DATUM

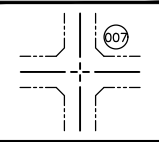
GENERAL NOTES
 AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
 EXISTING UTILITIES OBTAINED FROM CITY'S QUARTER SECTION MAPS (WATER, SEWER, STORM DRAIN) AND UTILITY MAPPING.
 EXISTING RIGHT OF WAY OBTAINED FROM CITY'S QUARTER SECTION MAPS.
 EXISTING SURVEY POINT INFORMATION OBTAINED FROM MARICOPA COUNTY LAND SURVEY'S MAP.
 STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.
 STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

CAUTION!!! HIGH PRESSURE GAS LINE NEARBY

CONTRACTOR SHALL MAINTAIN THE FOLLOWING CLEARANCES TO EXISTING UTILITIES:
 6' HORIZONTAL CLEARANCE TO WATER AND SEWER PIPES
 4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
 2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

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 ZACHARY DEAN
 PL.dwg
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Locations:
#007, No. Corner



NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



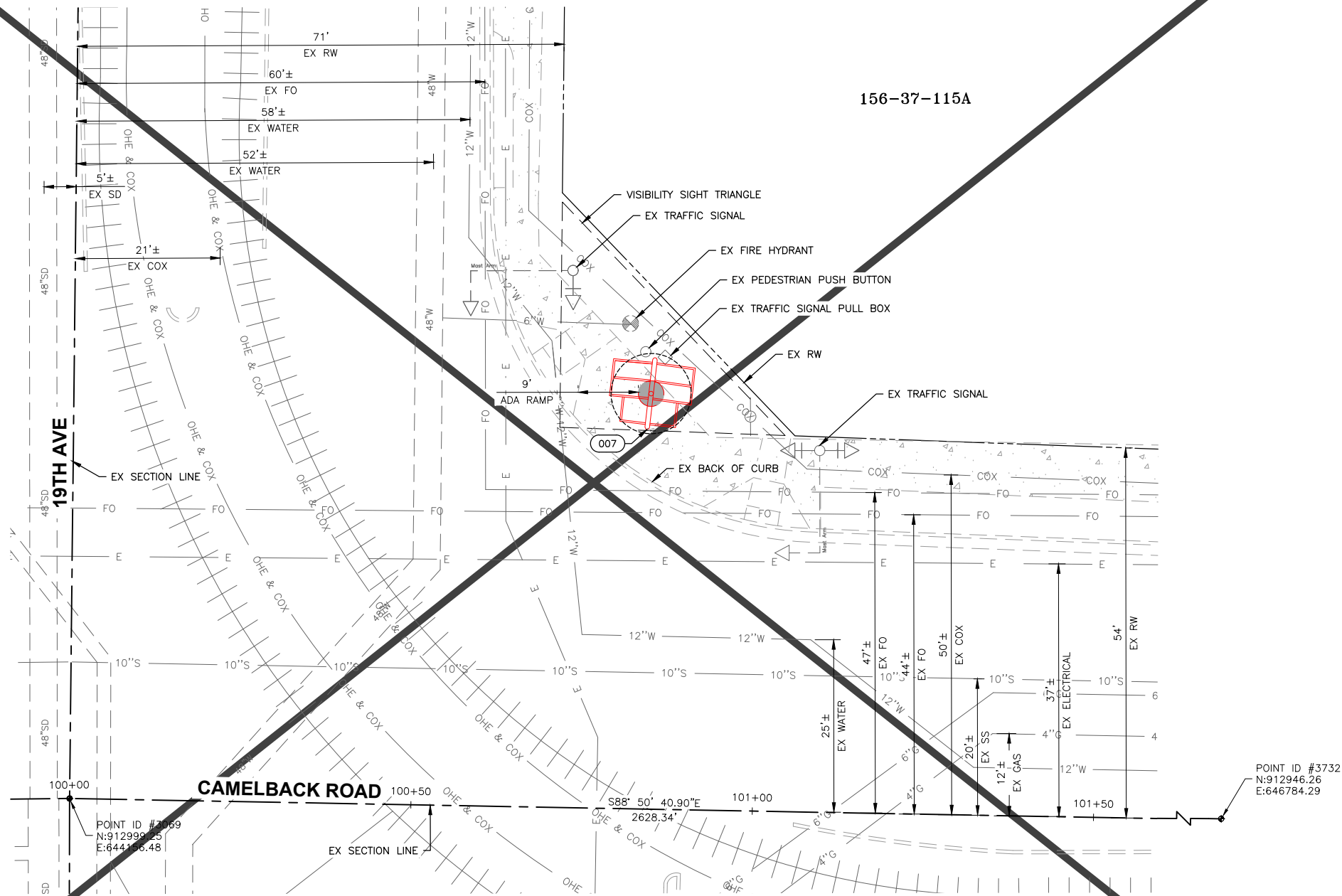
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	7	42	*

TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER

DES: CSS DR: ZD CK: CSS DATE: 09/24

M MATCH EXISTING
P PROTECT IN PLACE
S SAWCUT AND MATCH EXISTING

SHADE STRUCTURE TYPE & PLACEMENT		
NO.	STRUCTURE TYPE LOCATION	ORIENTATION ANGLE
007	BUTTERFLY W/POT 100+84.07, 60.87' LT	83°



POINT ID #3069
N:912993.25
E:644186.48

POINT ID #3732
N:912946.26
E:646784.29

HORIZONTAL DATUM
NAD83 AZ STATE PLANE CENTRAL ZONE, INTERNATIONAL FEET
PRIMARY BENCHMARK
#3069 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF CAMELBACK RD & 19TH AVE
ELEV=1135.31 NAD83 DATUM
SECONDARY BENCHMARK
#3732 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF CAMELBACK RD & 15TH AVE
ELEV=1133.45 NAD83 DATUM

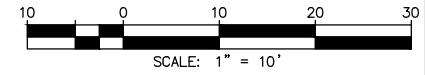
GENERAL NOTES
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THIS LOCATION HAS BEEN ELIMINATED.

UNCONFIRMED LOCATION

CAUTION!!! HIGH PRESSURE GAS LINE NEARBY

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2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES.



CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.
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PLAN SHEET 03

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

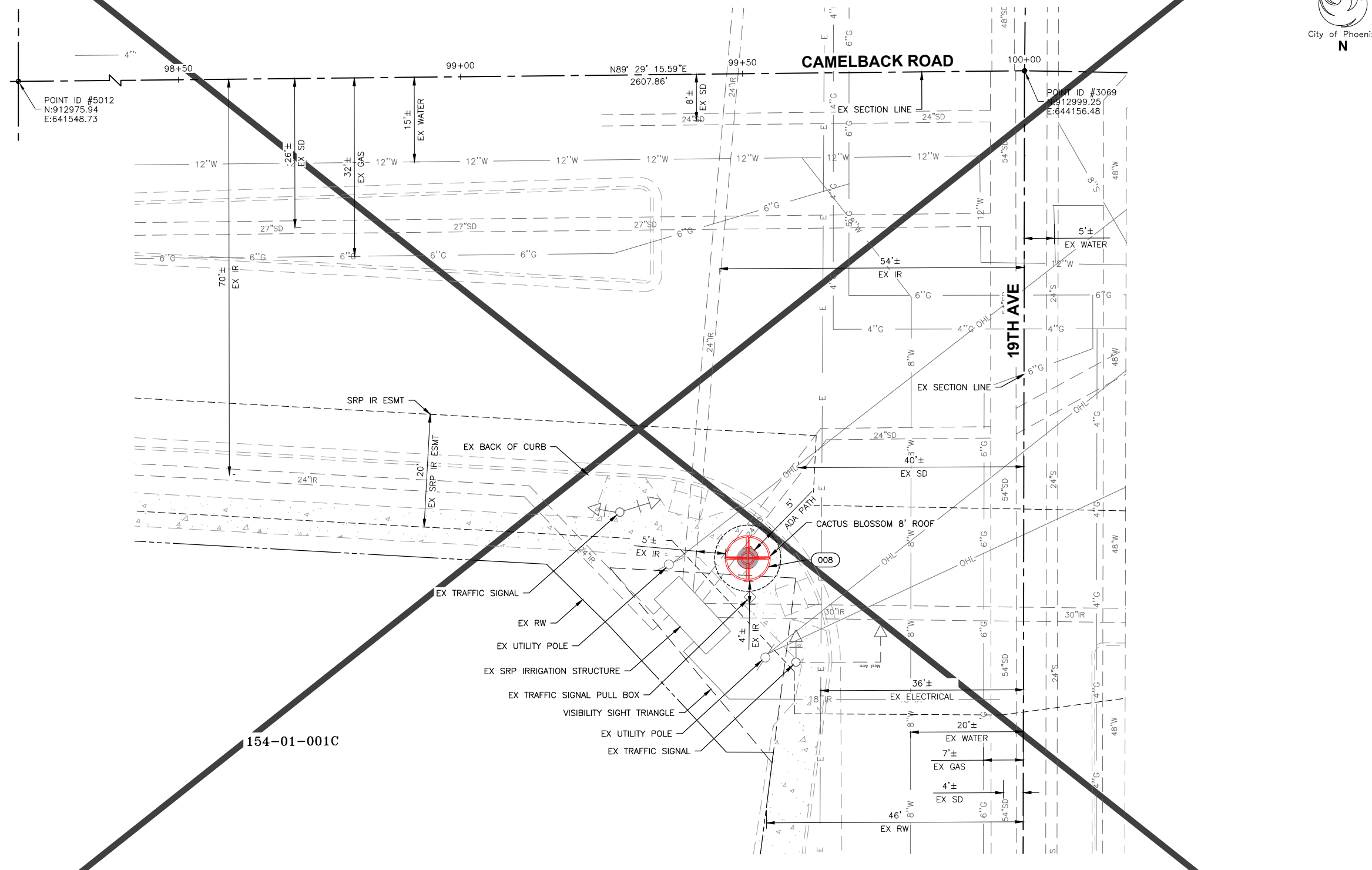
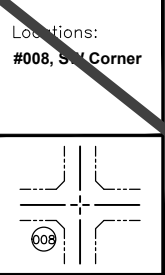
PHOENIX SHADE STRUCTURES
CAMELBACK ROAD & 19TH AVE
ST85170116-1

DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	7	42	*

SCALE: 1" = 10'

9/23/2024 3:25:51 PM zachary@tylin.com

REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE



HORIZONTAL DATUM
 NAD83 AZ STATE PLANE CENTRAL ZONE, INTERNATIONAL FEET
PRIMARY BENCHMARK
 #3069 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF
 CAMELBACK RD & 19TH AVE
 ELEV=1135.31 NAD83 DATUM
SECONDARY BENCHMARK
 #5012 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF
 CAMELBACK RD & 23RD AVE
 ELEV=1138.39 NAD83 DATUM

GENERAL NOTES
 AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
 EXISTING UTILITIES OBTAINED FROM CITY'S QUARTER SECTION MAPS (WATER,SEWER,STORM DRAIN) AND UTILITY MAPPING.
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 STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

THIS LOCATION HAS BEEN ELIMINATED.

CAUTION!!! HIGH PRESSURE GAS LINE NEARBY!
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 4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
 2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	8	42	*
DES: CSS		DR: ZD	CK: CSS	DATE: 09/24	

SHADE STRUCTURE TYPE & PLACEMENT		
NO.	STRUCTURE TYPE LOCATION	ORIENTATION ANGLE
008	CACTUS W/POT 8' ROOF 99+50.00, 85.85' RT	N/A

TYLIN INTERNATIONAL CONSULTING ENGINEER
 TYLIN
 CARLOS SANCHEZ SORIA
 State of Arizona, U.S.A.

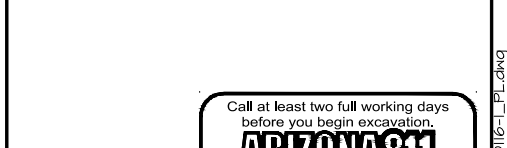
M	MATCH EXISTING
P	PROTECT IN PLACE
S	SAWCUT AND MATCH EXISTING

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PLAN SHEET 04
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

**PHOENIX SHADE STRUCTURES
 CAMELBACK ROAD & 19TH AVE
 ST85170116-1**

DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	8	42	*



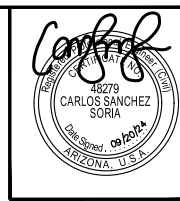
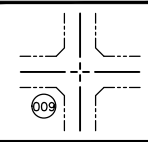
Call at least two full working days before you begin excavation.
ARIZONA 811
 Arizona Blue Stake, Inc.
 Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
 In Maricopa County: (602) 263-1100

SCALE: 1" = 10'

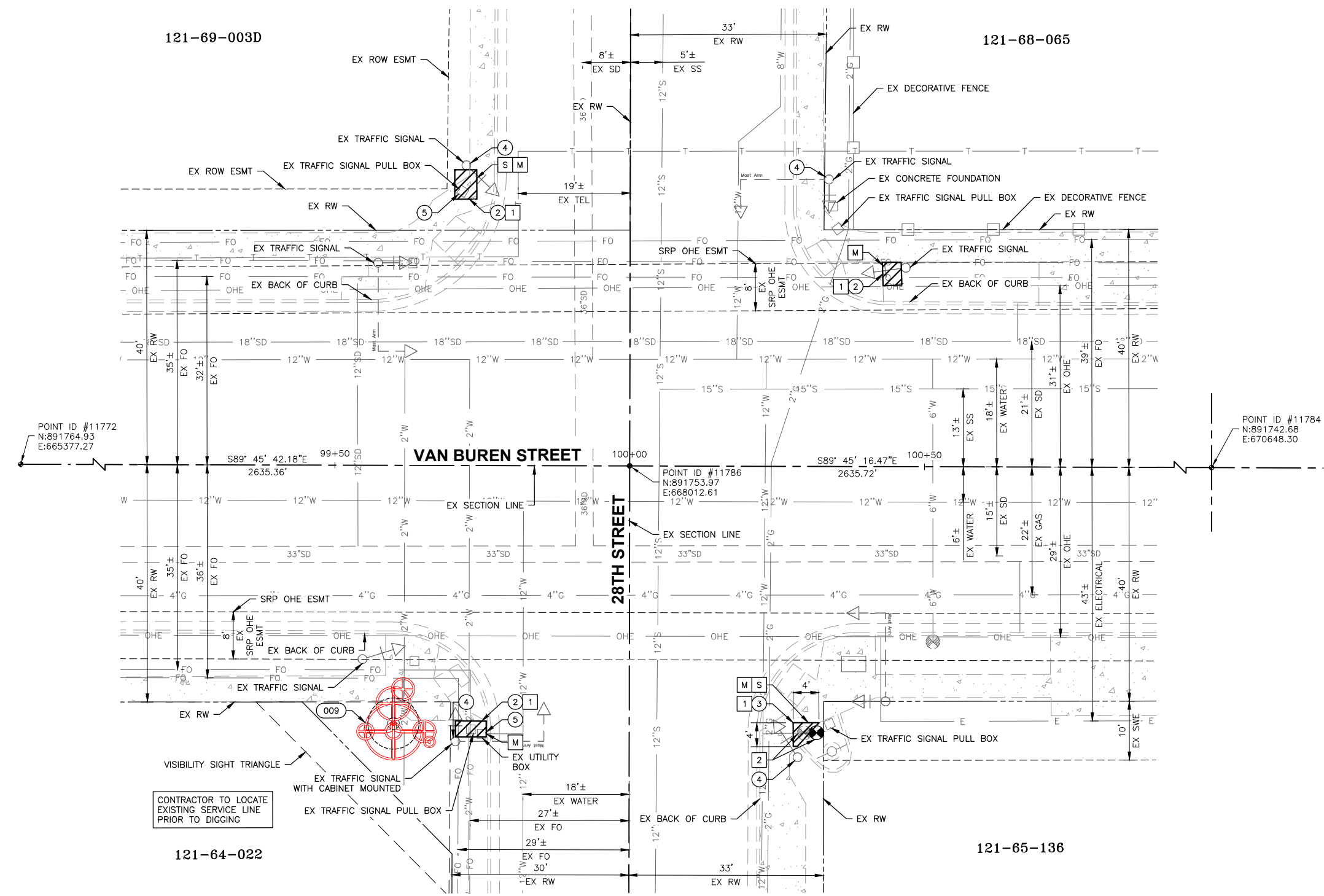
DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	8	42	*

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 Zsachary_DeMark
 Ty Lin
 Lin Half Scale 2/2

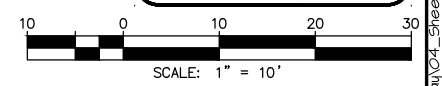
Locations:
#009, SW Corner



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT						
9	ARIZ.	ST85170116-1	9	42	*						
DES: CSS		DR: ZD	CK: CSS	DATE: 09/24							
TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER											
<table border="0"> <tr> <td>M</td> <td>MATCH EXISTING</td> </tr> <tr> <td>P</td> <td>PROTECT IN PLACE</td> </tr> <tr> <td>S</td> <td>SAWCUT AND MATCH EXISTING</td> </tr> </table>						M	MATCH EXISTING	P	PROTECT IN PLACE	S	SAWCUT AND MATCH EXISTING
M	MATCH EXISTING										
P	PROTECT IN PLACE										
S	SAWCUT AND MATCH EXISTING										
REMOVALS											
NO.	DESCRIPTION	UNIT	QTY.								
1	REMOVE EXISTING CONCRETE SIDEWALK	SF	15								
2	REMOVE AND RELOCATE EXISTING FIRE HYDRANT	EA	1								
CONSTRUCTION NOTES											
NO.	DESCRIPTION	UNIT	QTY.								
2	CONSTRUCT CONCRETE SLAB FOR ACCESSIBLE PEDESTRIAN SIGNAL (APS), 4" THICK TO PROVIDE 48"x48" FLAT LANDING	SF	44								
3	CONSTRUCT CONCRETE SLAB, 4" THICK TO PROVIDE FLAT LANDING	SF	11								
4	FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) ON EXISTING POLE	EA	4								
5	ADJUST UTILITY PULL BOX	EA	3								
SHADE STRUCTURE TYPE & PLACEMENT											
NO.	STRUCTURE TYPE LOCATION	ORIENTATION ANGLE									
009	MULTI PANEL CACTUS 99+60.04, 43.81' RT	90°									



1. SEE SHEETS 21-25 FOR CONCRETE PAD CONTROL.



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PLAN SHEET 05

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

**PHOENIX SHADE STRUCTURES
VAN BUREN ST & 28TH STREET
ST85170116-1**

DR: ZD	DES: CSS	CK: CSS	SHEET NO: 9	TOTAL SHEETS: 42	AS BUILT: *
DATE: 09/24			SCALE: 1" = 10'		

HORIZONTAL DATUM
NAD83 AZ STATE PLANE-CENTRAL ZONE, INTERNATIONAL FEET
PRIMARY BENCHMARK
#11786 STN IN HAND HOLE AT THE INTERSECTION OF VAN BUREN ST & 28TH ST
ELEV=1111.02 NAD83 DATUM
SECONDARY BENCHMARK
#11772 STN IN HAND HOLE AT THE INTERSECTION OF VAN BUREN ST & 24TH ST
ELEV=1106.27 NAD83 DATUM

GENERAL NOTES
AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
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EXISTING SURVEY POINT INFORMATION OBTAINED FROM MARICOPA COUNTY LAND SURVEY'S MAP.
STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.
STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

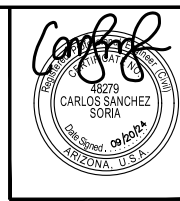
CAUTION!!! HIGH PRESSURE GAS LINE NEARBY

CONTRACTOR SHALL MAINTAIN THE FOLLOWING CLEARANCES TO EXISTING UTILITIES:
 6' HORIZONTAL CLEARANCE TO WATER AND SEWER PIPES
 4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
 2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE
REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE
REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE

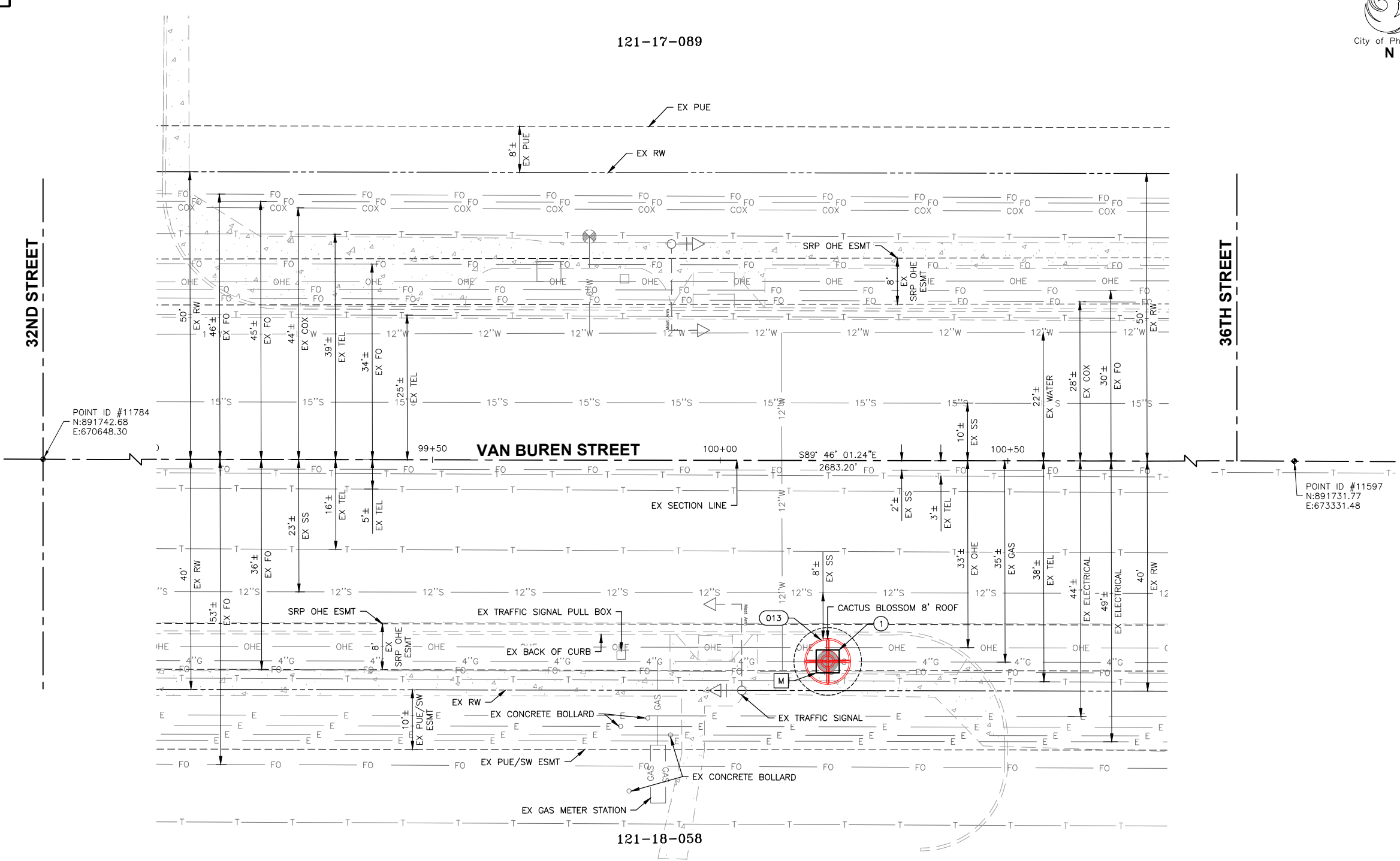
TY Lin Half Scale.ctb
Zachary DeMark
10/9/2024 9:22:23 PM
C:\Users\zdeMark\OneDrive\Documents\Projects\Highway04 - Sheets\116116-1_PL.dwg

Locations:
#013, South Side



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	10	42	*
DES: CSS		DR: ZD	CK: CSS	DATE: 09/24	
TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER					
M	MATCH EXISTING				
P	PROTECT IN PLACE				
S	SAWCUT AND MATCH EXISTING				
CONSTRUCTION NOTES					
NO.	DESCRIPTION	UNIT	QTY.		
1	CONSTRUCT CONCRETE SLAB FOR SHADE STRUCTURE, 6" THICK	SF	16		
SHADE STRUCTURE TYPE & PLACEMENT					
NO.	STRUCTURE TYPE LOCATION	ORIENTATION ANGLE			
013	CACTUS W/POT 8' ROOF 100+18.75, 34.92' RT	N/A			

REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE



POINT ID #11784
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E:670648.30

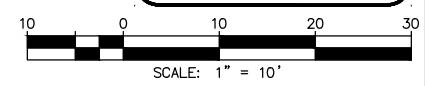
POINT ID #11597
N:891731.77
E:673331.48

1. SEE SHEETS 21-25 FOR CONCRETE PAD CONTROL.

Call at least two full working days before you begin excavation.

ARIZONA 811
Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100



CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

PLAN SHEET 06

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

**PHOENIX SHADE STRUCTURES
VAN BUREN ST & W OF 35TH ST
ST85170116-1**

DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	10	42	*

SCALE: 1" = 10'

HORIZONTAL DATUM
NAD83 AZ STATE PLANE-CENTRAL ZONE, INTERNATIONAL FEET
PRIMARY BENCHMARK
#11784 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF VAN BUREN ST & 32ND ST
ELEV=1119.32 NAD83 DATUM
SECONDARY BENCHMARK
#11772 STN IN HAND HOLE AT THE INTERSECTION OF VAN BUREN ST & 24TH ST
ELEV=1106.27 NAD83 DATUM

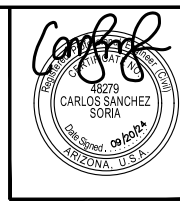
GENERAL NOTES
AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
EXISTING UTILITIES OBTAINED FROM CITY'S QUARTER SECTION MAPS (WATER,SEWER,STORM DRAIN) AND UTILITY MAPPING.
EXISTING RIGHT OF WAY OBTAINED FROM CITY'S QUARTER SECTION MAPS.
EXISTING SURVEY POINT INFORMATION OBTAINED FROM MARICOPA COUNTY LAND SURVEY'S MAP.
STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.
STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

CAUTION!!! HIGH PRESSURE GAS LINE NEARBY

CONTRACTOR SHALL MAINTAIN THE FOLLOWING CLEARANCES TO EXISTING UTILITIES:
6' HORIZONTAL CLEARANCE TO WATER AND SEWER PIPES
4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

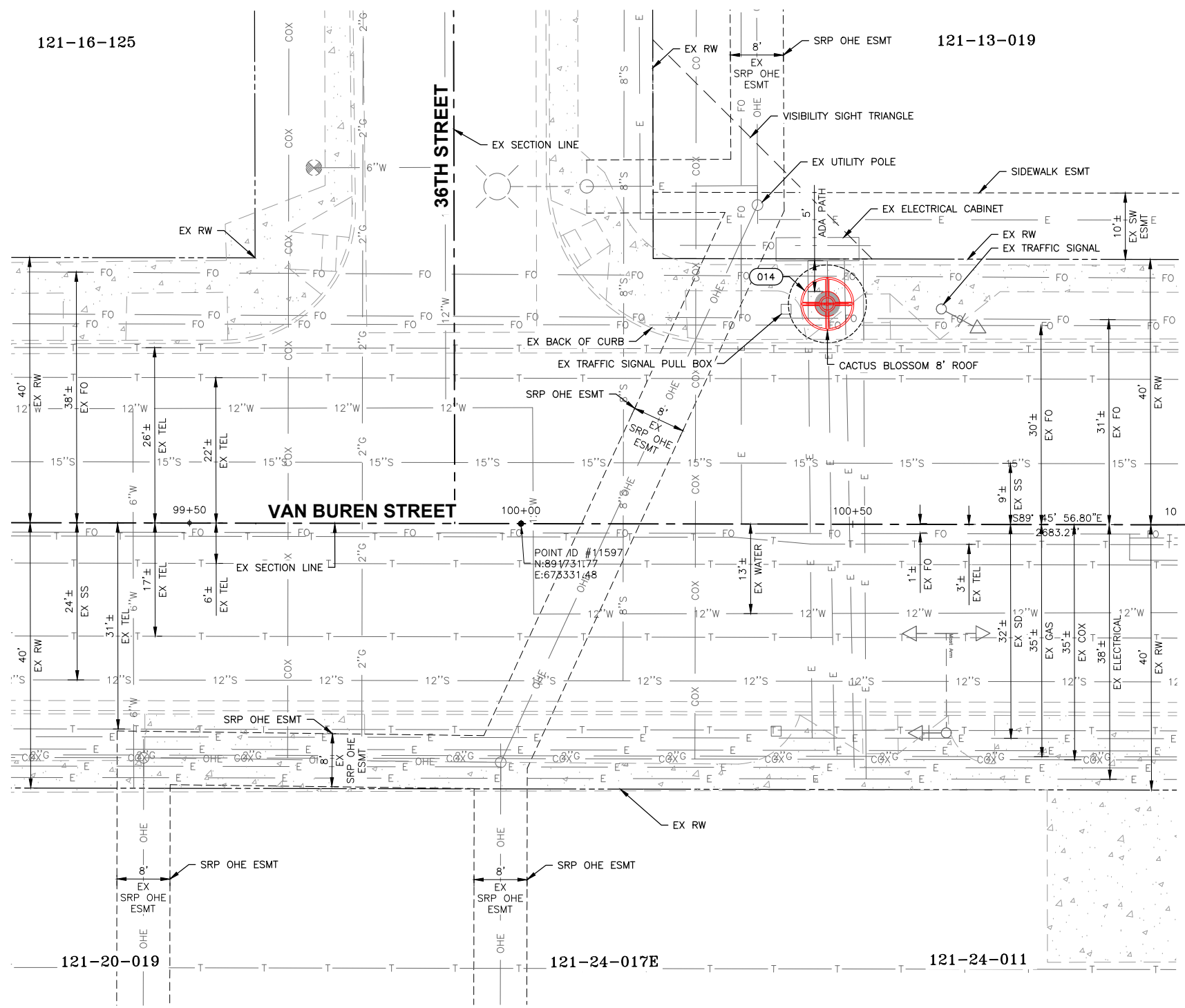
TY Lin 10/29/2024 3:11:21 PM

Locations:
#014, North Side



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT						
9	ARIZ.	ST85170116-1	11	42	*						
DES: CSS		DR: ZD	CK: CSS	DATE: 09/24							
TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER											
<table border="0"> <tr> <td>M</td> <td>MATCH EXISTING</td> </tr> <tr> <td>P</td> <td>PROTECT IN PLACE</td> </tr> <tr> <td>S</td> <td>SAWCUT AND MATCH EXISTING</td> </tr> </table>						M	MATCH EXISTING	P	PROTECT IN PLACE	S	SAWCUT AND MATCH EXISTING
M	MATCH EXISTING										
P	PROTECT IN PLACE										
S	SAWCUT AND MATCH EXISTING										
SHADE STRUCTURE TYPE & PLACEMENT											
NO.	STRUCTURE TYPE LOCATION	ORIENTATION ANGLE									
014	CACTUS W/POT 8' ROOF 100+46.11, 33.21' LT	N/A									

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE



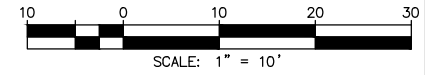
POINT ID#: 12060
N: 891720.80
E: 676014.73

POINT ID # 11597
N: 891731.77
E: 675331.48

Call at least two full working days before you begin excavation.

ARIZONA 811
Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100



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"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

PLAN SHEET 07

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

**PHOENIX SHADE STRUCTURES
VAN BUREN ST & 36TH STREET
ST85170116-1**

DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	11	42	*
SCALE: 1" = 10'					

HORIZONTAL DATUM
NAD83 AZ STATE PLANE-CENTRAL ZONE, INTERNATIONAL FEET
PRIMARY BENCHMARK
#11597 STN IN HAND HOLE AT THE INTERSECTION OF VAN BUREN ST & 36TH ST
ELEV=1128.52 NAD83 DATUM
SECONDARY BENCHMARK
#12060 COP BRASS CAP AT THE INTERSECTION OF VAN BUREN ST & 40TH ST
ELEV=1144.57 NAD83 DATUM

GENERAL NOTES
AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
EXISTING UTILITIES OBTAINED FROM CITY'S QUARTER SECTION MAPS (WATER, SEWER, STORM DRAIN) AND UTILITY MAPPING.
EXISTING RIGHT OF WAY OBTAINED FROM CITY'S QUARTER SECTION MAPS.
EXISTING SURVEY POINT INFORMATION OBTAINED FROM MARICOPA COUNTY LAND SURVEY'S MAP.
STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.
STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

CAUTION!!! HIGH PRESSURE GAS LINE NEARBY!

CONTRACTOR SHALL MAINTAIN THE FOLLOWING CLEARANCES TO EXISTING UTILITIES:
6' HORIZONTAL CLEARANCE TO WATER AND SEWER PIPES
4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

9/20/2024 10:24:24 AM Zachary DeMark

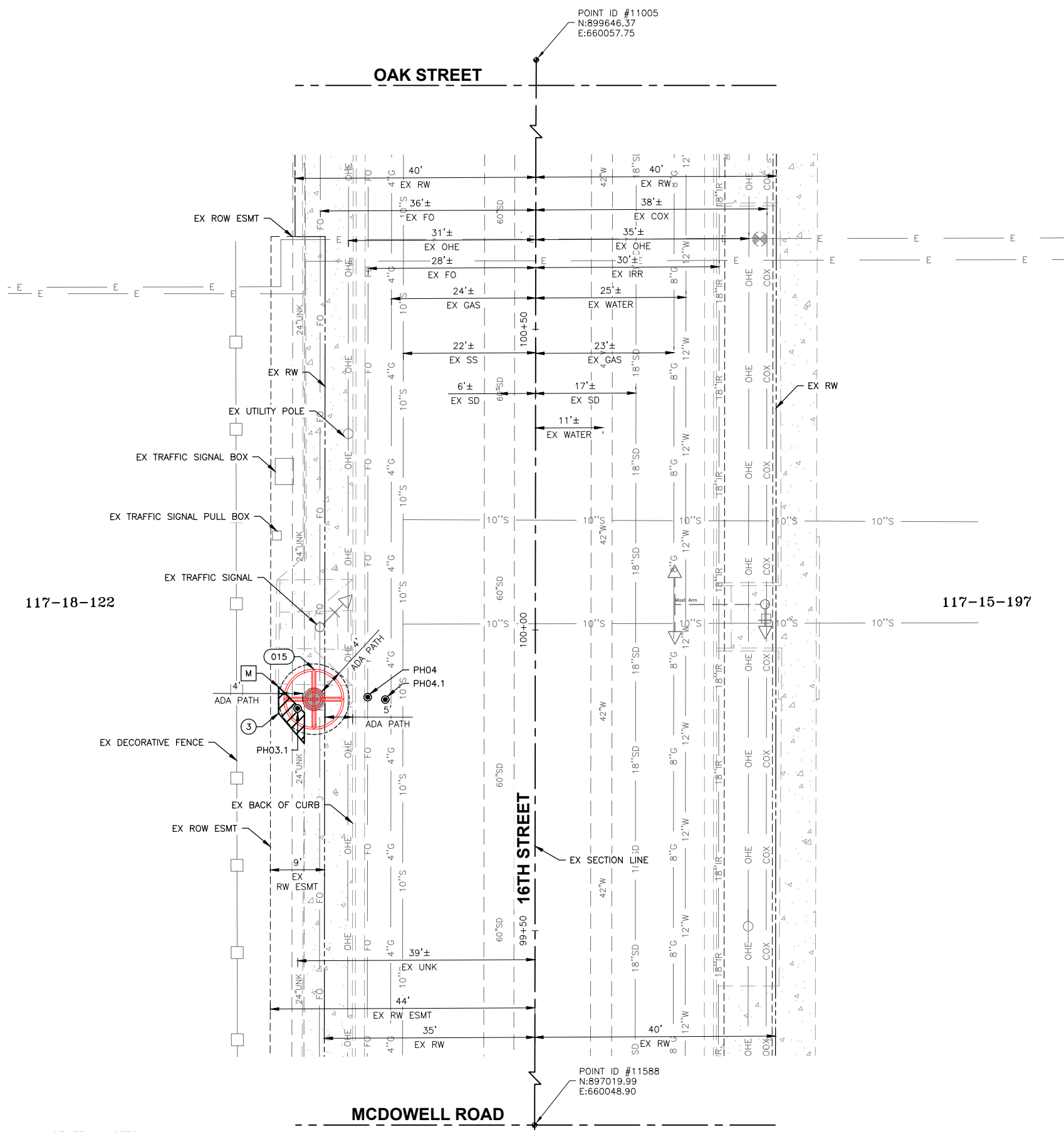
NO.	DESCRIPTION	REV BY	CHK BY	DATE

Locations:
#015, West Side



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	12	42	*
DES: CSS		DR: ZD	CK: CSS	DATE: 09/24	
TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER					
M	MATCH EXISTING				
P	PROTECT IN PLACE				
S	SAWCUT AND MATCH EXISTING				

CONSTRUCTION NOTES				
NO.	DESCRIPTION	UNIT	QTY.	
3	CONSTRUCT CONCRETE SLAB, 4" THICK TO PROVIDE FLAT LANDING	SF	21	
SHADE STRUCTURE TYPE & PLACEMENT				
NO.	STRUCTURE TYPE	LOCATION	ORIENTATION ANGLE	
015	CACTUS W/POT	99+88.44, 36.80' LT	N/A	

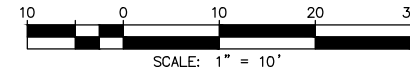


HORIZONTAL DATUM
 NAD83 AZ STATE PLANE-CENTRAL ZONE, INTERNATIONAL FEET
PRIMARY BENCHMARK
 #11005 BRASS CAP IN HAND HOLE AT THE INTERSECTION OF
 OAK ST & 16TH ST
 ELEV=1110.43 NAD83 DATUM
SECONDARY BENCHMARK
 #11588 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF
 MCDOWELL RD & 16TH ST
 ELEV=1107.18 NAD83 DATUM

GENERAL NOTES
 AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
 EXISTING UTILITIES OBTAINED FROM CITY'S QUARTER SECTION MAPS (WATER,SEWER,STORM DRAIN) AND UTILITY MAPPING.
 EXISTING RIGHT OF WAY OBTAINED FROM CITY'S QUARTER SECTION MAPS.
 EXISTING SURVEY POINT INFORMATION OBTAINED FROM MARICOPA COUNTY LAND SURVEY'S MAP.
 STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.
 STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

CAUTION!!! HIGH PRESSURE GAS LINE NEARBY!
 CONTRACTOR SHALL MAINTAIN THE FOLLOWING CLEARANCES TO EXISTING UTILITIES:
 6' HORIZONTAL CLEARANCE TO WATER AND SEWER PIPES
 4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
 2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

1. SEE SHEETS 21-25 FOR CONCRETE PAD CONTROL.



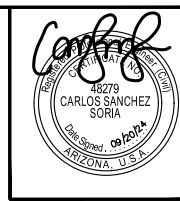
CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.
 *PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

PLAN SHEET 08
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT
 PHOENIX SHADE STRUCTURES
N OF MCDOWELL RD & 16TH ST
 ST85170116-1

DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS:	AS BUILT:
DATE: 09/24	DATE: 09/24	DATE: 09/24	12	42	*
SCALE: 1" = 10'					

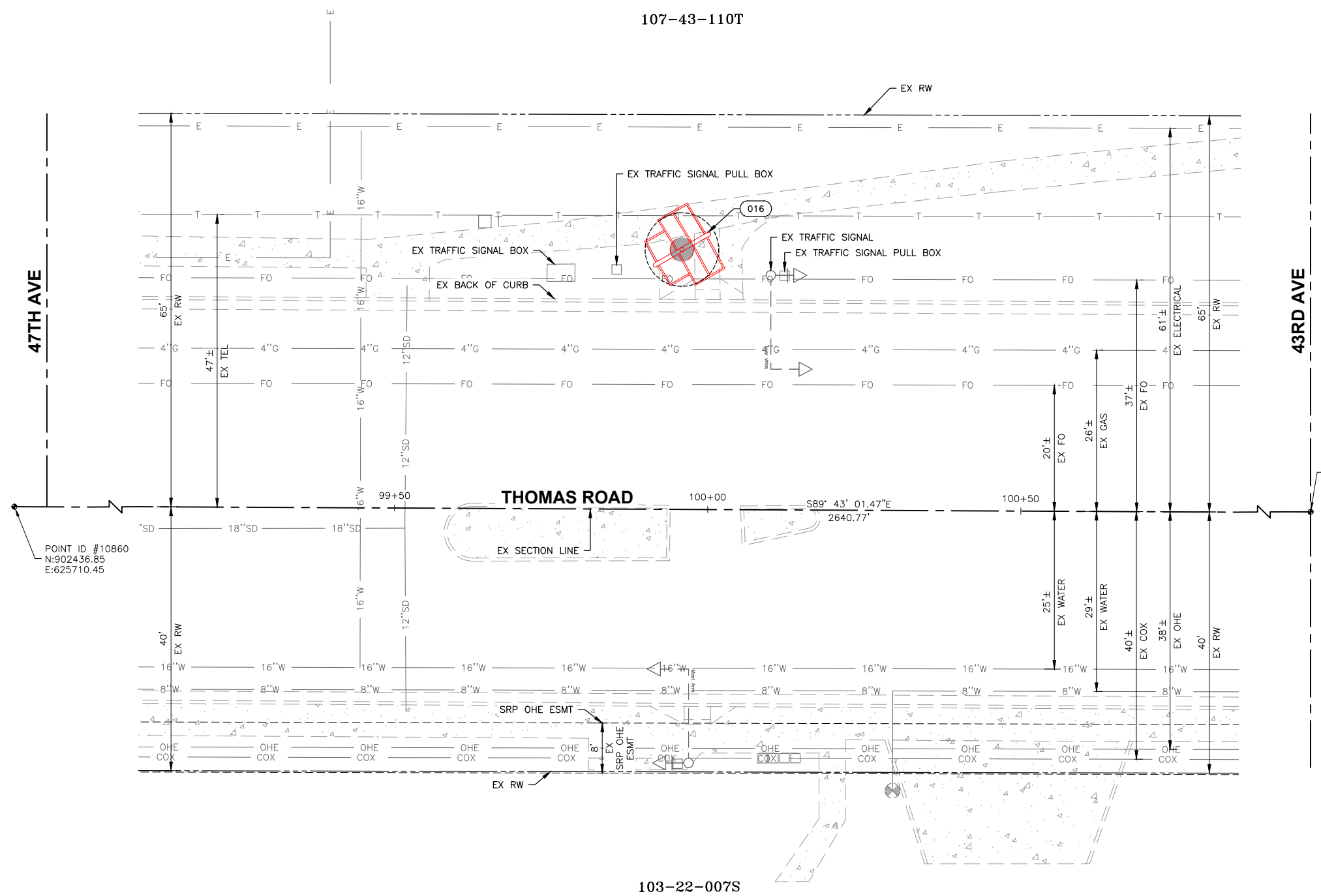
9/19/2024 7:19:21 PM Zachary DeMark tylin@tylin.com

Locations:
#016, North Side



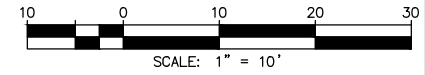
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT						
9	ARIZ.	ST85170116-1	13	42	*						
DES: CSS		DR: ZD	CK: CSS	DATE: 09/24							
<p>TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER</p> <p>M MATCH EXISTING P PROTECT IN PLACE S SAWCUT AND MATCH EXISTING</p> <p>SHADE STRUCTURE TYPE & PLACEMENT</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>STRUCTURE TYPE LOCATION</th> <th>ORIENTATION ANGLE</th> </tr> </thead> <tbody> <tr> <td>016</td> <td>BUTTERFLY W/POT 99+95.68, 41.51' LT</td> <td>30°</td> </tr> </tbody> </table>						NO.	STRUCTURE TYPE LOCATION	ORIENTATION ANGLE	016	BUTTERFLY W/POT 99+95.68, 41.51' LT	30°
NO.	STRUCTURE TYPE LOCATION	ORIENTATION ANGLE									
016	BUTTERFLY W/POT 99+95.68, 41.51' LT	30°									

REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE



POINT ID #10860
N:902436.85
E:625710.45

POINT ID #3728
N:902423.81
E:628351.19



CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.

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PLAN SHEET 09

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

**PHOENIX SHADE STRUCTURES
THOMAS ROAD & W OF 43RD AVE
ST85170116-1**

HORIZONTAL DATUM
NAD83 AZ STATE PLANE-CENTRAL ZONE, INTERNATIONAL FEET
PRIMARY BENCHMARK
#10860 COP BRASS CAP IN HAND HOLE AT THOMAS RD
ELEV=1094.82 NAD83 DATUM
SECONDARY BENCHMARK
#3728 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF THOMAS RD & 43RD AVE
ELEV=1095.13 NAD83 DATUM

GENERAL NOTES
AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
EXISTING UTILITIES OBTAINED FROM CITY'S QUARTER SECTION MAPS (WATER,SEWER,STORM DRAIN) AND UTILITY MAPPING.
EXISTING RIGHT OF WAY OBTAINED FROM CITY'S QUARTER SECTION MAPS.
EXISTING SURVEY POINT INFORMATION OBTAINED FROM MARICOPA COUNTY LAND SURVEY'S MAP.
STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.
STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

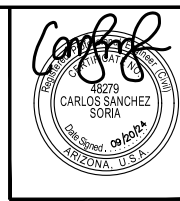
CAUTION!!! HIGH PRESSURE GAS LINE NEARBY

CONTRACTOR SHALL MAINTAIN THE FOLLOWING CLEARANCES TO EXISTING UTILITIES:
6' HORIZONTAL CLEARANCE TO WATER AND SEWER PIPES
4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	13	42	*
SCALE: 1" = 10'					

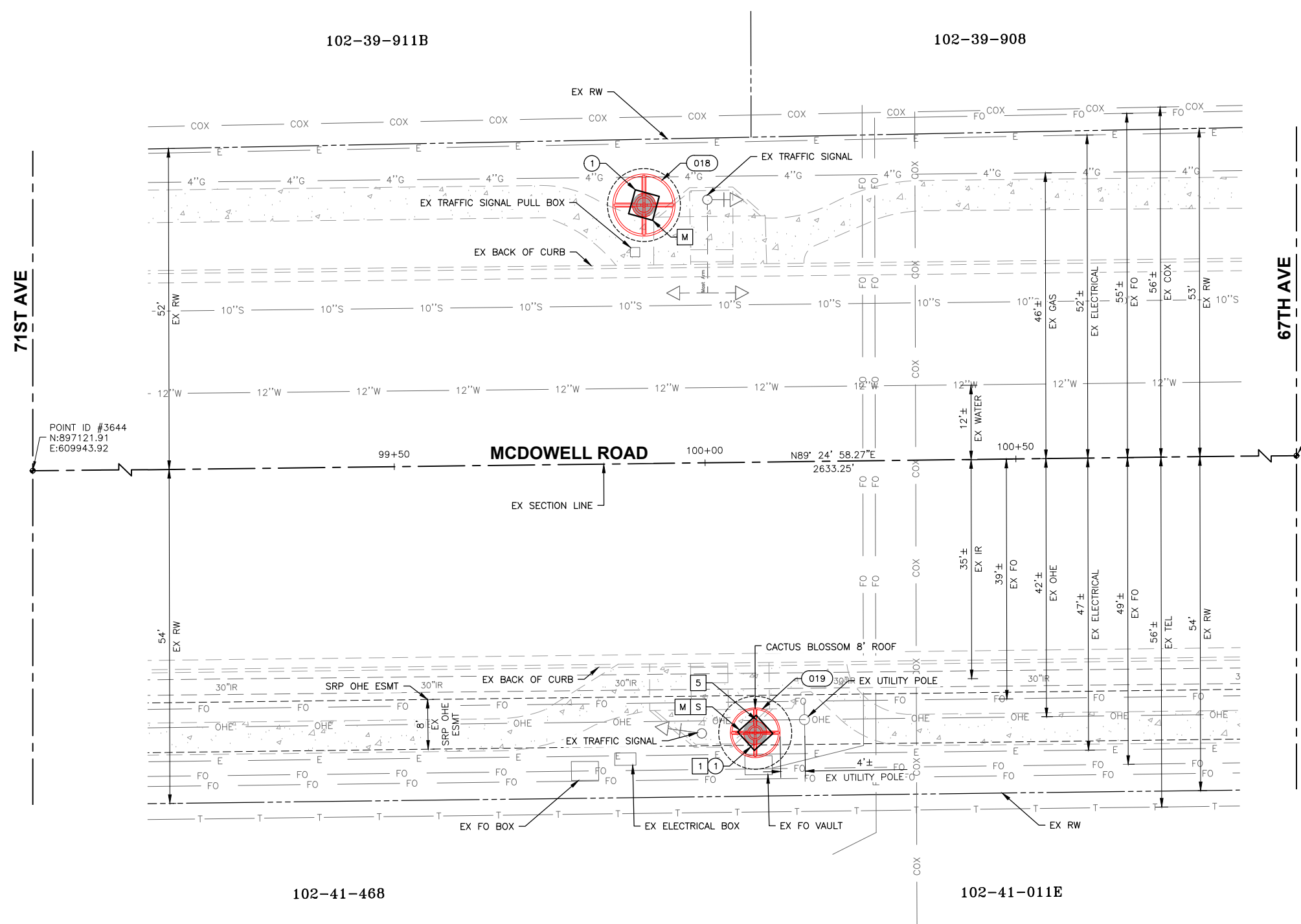
9/19/2024 11:31 PM Zachary DeMark tylin@tylin.com

Locations:
#018, North Side
#019, South Side



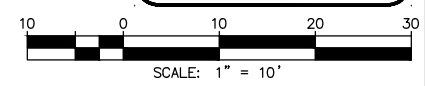
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	14	42	*
TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER					
DES: CSS	DR: ZD	CK: CSS	DATE: 09/24		
M	MATCH EXISTING				
P	PROTECT IN PLACE				
S	SAWCUT AND MATCH EXISTING				
REMOVALS					
NO.	DESCRIPTION	UNIT	QTY.		
1	REMOVE EXISTING CONCRETE SIDEWALK	SF	32		
5	REMOVE VERTICAL CONCRETE CURB	LF	4		
CONSTRUCTION NOTES					
NO.	DESCRIPTION	UNIT	QTY.		
1	CONSTRUCT CONCRETE SLAB FOR SHADE STRUCTURE, 6" THICK	SF	32		
SHADE STRUCTURE TYPE & PLACEMENT					
NO.	STRUCTURE TYPE LOCATION	ORIENTATION ANGLE			
018	CACTUS W/POT 99+90.69, 41.58' LT	N/A			
019	CACTUS W/POT 8' ROOF 100+07.53, 43.53' RT	N/A			

NO.	DESCRIPTION	REV BY	CHK BY	DATE



POINT ID #3638
 N:897148.74
 E:612577.04

1. SEE SHEETS 21-25 FOR CONCRETE PAD CONTROL.



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PLAN SHEET 10

CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

**PHOENIX SHADE STRUCTURES
 MCDOWELL RD & W OF 67TH AVE
 ST85170116-1**

DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	14	42	*
SCALE: 1" = 10'					

HORIZONTAL DATUM
 NAD83 AZ STATE PLANE-CENTRAL ZONE, INTERNATIONAL FEET
PRIMARY BENCHMARK
 #3644 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF MCDOWELL RD & 71ST AVE
 ELEV=1055.44 NAD83 DATUM
SECONDARY BENCHMARK
 #3638 MARICOPA COUNTY AL CAP IN HAND HOLE AT THE INTERSECTION OF MCDOWELL RD & 67TH AVE
 ELEV=1058.47 NAD83 DATUM

GENERAL NOTES
 AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
 EXISTING UTILITIES OBTAINED FROM CITY'S QUARTER SECTION MAPS (WATER,SEWER,STORM DRAIN) AND UTILITY MAPPING.
 EXISTING RIGHT OF WAY OBTAINED FROM CITY'S QUARTER SECTION MAPS.
 EXISTING SURVEY POINT INFORMATION OBTAINED FROM MARICOPA COUNTY LAND SURVEY'S MAP.
 STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.
 STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

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 6' HORIZONTAL CLEARANCE TO WATER AND SEWER PIPES
 4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
 2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

9/19/2024 11:51 AM
 Zachary DeMark
 City of Phoenix
 9/19/2024 11:51 AM
 PL.dwg
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Locations:
#021, No Corner

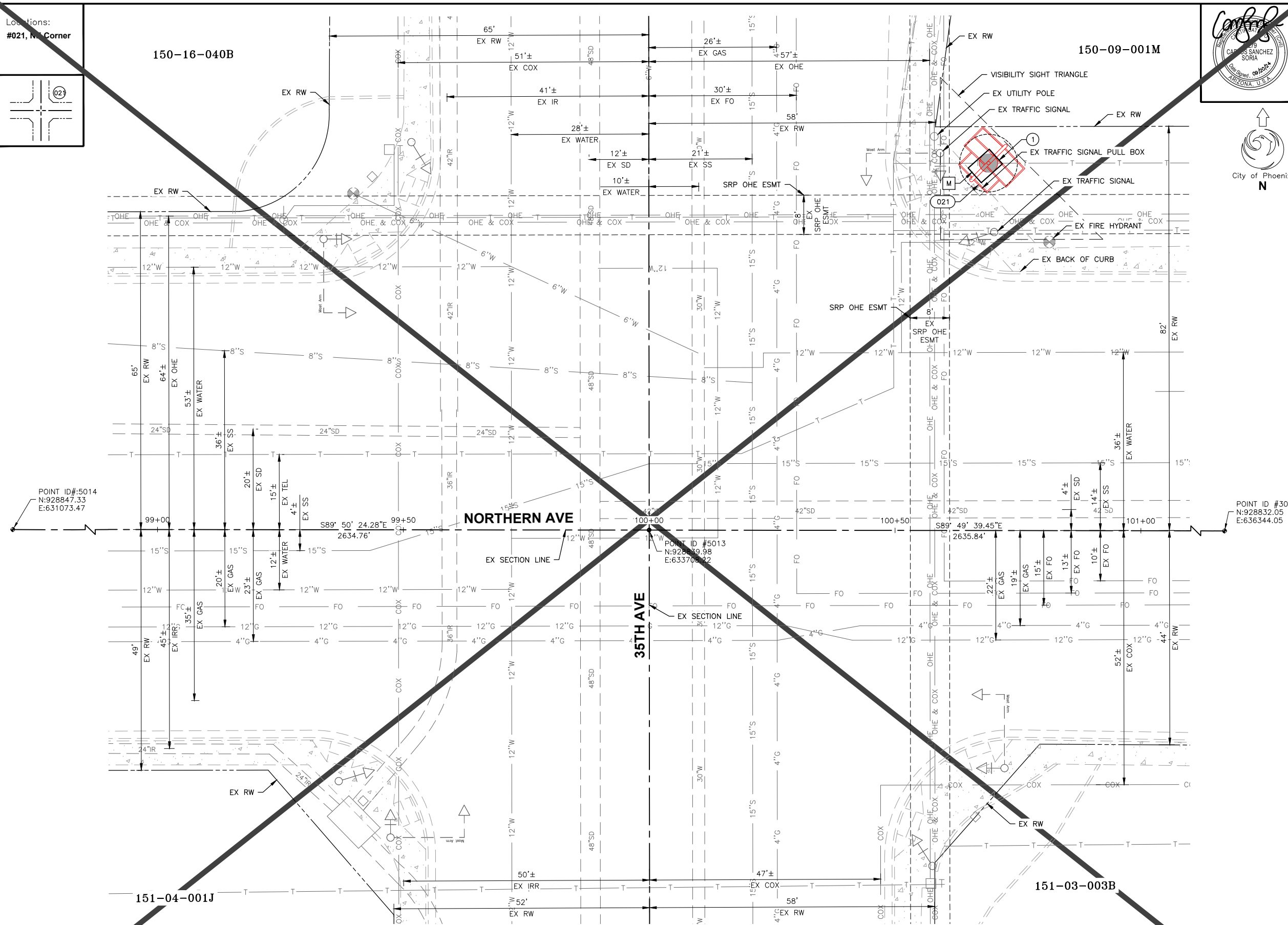
150-16-040B

150-09-001M



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	15	42	*
DES: CSS		DR: ZD	CK: CSS	DATE: 09/24	
TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER					
M	MATCH EXISTING				
P	PROTECT IN PLACE				
S	SAWCUT AND MATCH EXISTING				
CONSTRUCTION NOTES					
NO.	DESCRIPTION	UNIT	QTY.		
1	CONSTRUCT CONCRETE SLAB FOR SHADE STRUCTURE, 6" THICK	SF	23		
SHADE STRUCTURE TYPE & PLACEMENT					
NO.	STRUCTURE TYPE	ORIENTATION ANGLE			
021	BUTTERFLY WPOT 100+68.91, 74.78' LT	45°			

REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE



POINT ID#5014
N:928847.33
E:631073.47

POINT ID #3075
N:928832.05
E:636344.05

NORTHERN AVE

35TH AVE

151-04-001J

151-03-003B

THIS LOCATION HAS BEEN ELIMINATED.

UNCONFIRMED LOCATION

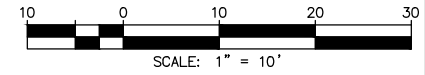
CAUTION!!! HIGH PRESSURE GAS LINE NEARBY

HORIZONTAL DATUM
NAD83 AZ STATE PLANE CENTRAL ZONE, INTERNATIONAL FEET
PRIMARY BENCHMARK
#5013 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF NORTHERN AVE & 35TH AVE
ELEV=1202.38 NAD83 DATUM
SECONDARY BENCHMARK
#3075 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF NORTHERN AVE & 31ST AVE
ELEV=1203.37 NAD83 DATUM

GENERAL NOTES
AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
EXISTING UTILITIES OBTAINED FROM CITY'S QUARTER SECTION MAPS (WATER,SEWER,STORM DRAIN) AND UTILITY MAPPING.
EXISTING RIGHT OF WAY OBTAINED FROM CITY'S QUARTER SECTION MAPS.
EXISTING SURVEY POINT INFORMATION OBTAINED FROM MARICOPA COUNTY LAND SURVEY'S MAP.
STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.
STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

CONTRACTOR SHALL MAINTAIN THE FOLLOWING CLEARANCES TO EXISTING UTILITIES:
6' HORIZONTAL CLEARANCE TO WATER AND SEWER PIPES
4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

1. SEE SHEETS 21-25 FOR CONCRETE PAD CONTROL.



CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.
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PLAN SHEET 11

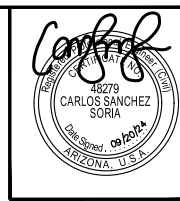
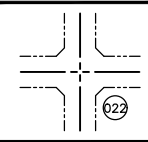
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PHOENIX SHADE STRUCTURES
NORTHERN AVE & 35TH AVE
ST85170116-1

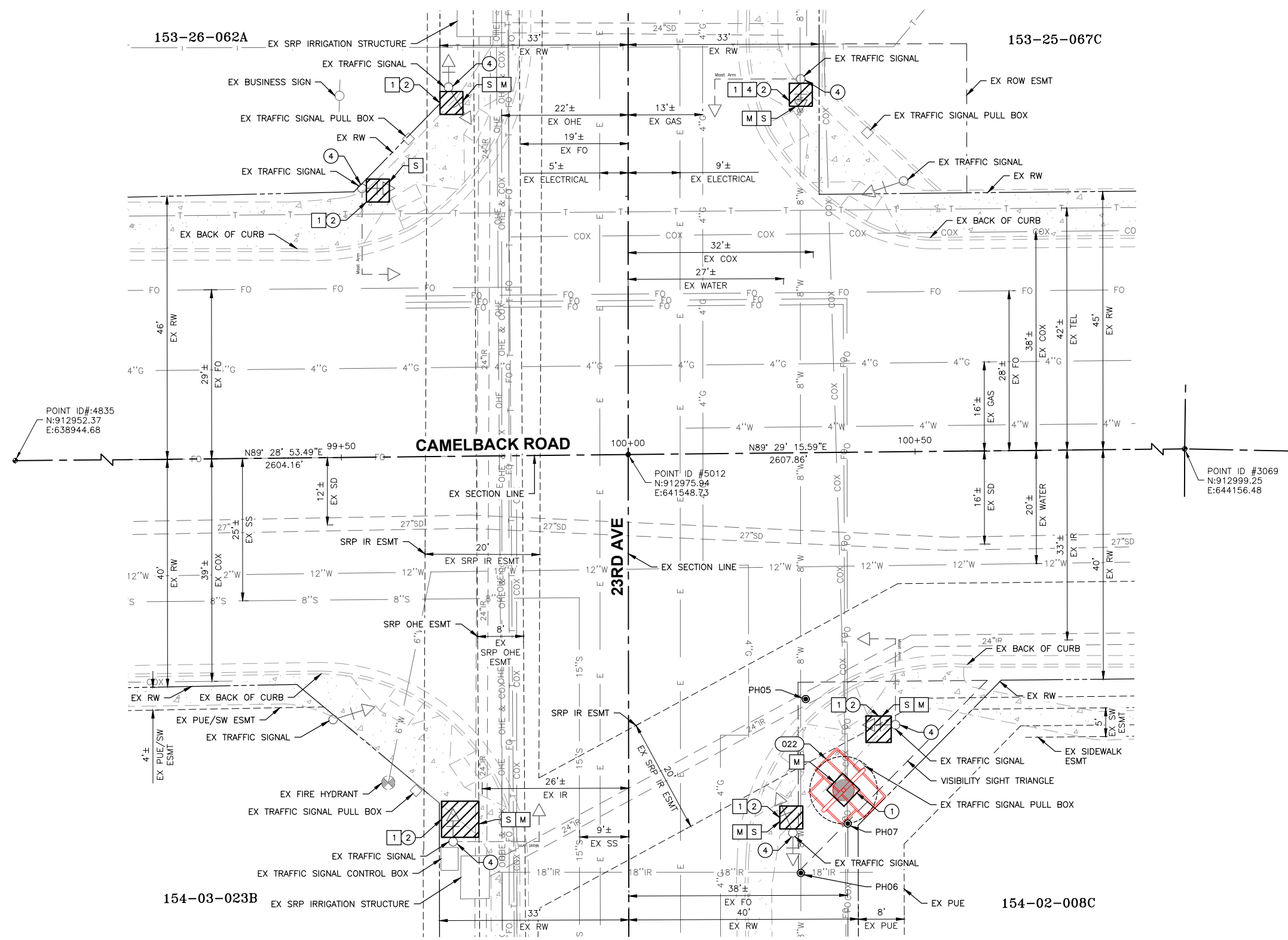
DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	15	42	*
SCALE: 1" = 10'					

TYLin PL 11-11-2024 3:26:19 PM Zachary DeMark

Locations:
#022, SE Corner



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	16	42	*
DES: CSS		DR: ZD	CK: CSS	DATE: 09/24	
M	MATCH EXISTING				
P	PROTECT IN PLACE				
S	SAWCUT AND MATCH EXISTING				
REMOVALS					
NO.	DESCRIPTION	UNIT	QTY.		
1	REMOVE EXISTING CONCRETE SIDEWALK	SF	82		
4	REMOVE EXISTING ASPHALT CONCRETE	SF	3		
CONSTRUCTION NOTES					
NO.	DESCRIPTION	UNIT	QTY.		
1	CONSTRUCT CONCRETE SLAB FOR SHADE STRUCTURE, 6" THICK	SF	16		
2	CONSTRUCT CONCRETE SLAB FOR ACCESSIBLE PEDESTRIAN SIGNAL (APS), 4" THICK TO PROVIDE 48"x48" FLAT LANDING	SF	126		
4	FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) ON EXISTING POLE	EA	6		
SHADE STRUCTURE TYPE & PLACEMENT					
NO.	STRUCTURE TYPE LOCATION	ORIENTATION ANGLE			
022	BUTTERFLY W/POT 100+36.93, 58.88' RT	45°			



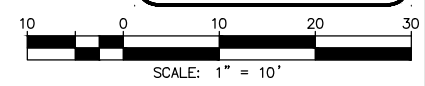
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

HORIZONTAL DATUM
NAD83 AZ STATE PLANE-CENTRAL ZONE, INTERNATIONAL FEET
PRIMARY BENCHMARK
#5012 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF CAMELBACK RD & 23RD AVE
ELEV=1138.39 NAD83 DATUM
SECONDARY BENCHMARK
#3069 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF CAMELBACK RD & 19TH AVE
ELEV=1135.61 NAD83 DATUM

GENERAL NOTES
AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
EXISTING UTILITIES OBTAINED FROM CITY'S QUARTER SECTION MAPS (WATER,SEWER,STORM DRAIN) AND UTILITY MAPPING.
EXISTING RIGHT OF WAY OBTAINED FROM CITY'S QUARTER SECTION MAPS.
EXISTING SURVEY POINT INFORMATION OBTAINED FROM MARICOPA COUNTY LAND SURVEY'S MAP.
STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.
STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

CAUTION!!! HIGH PRESSURE GAS LINE NEARBY!
CONTRACTOR SHALL MAINTAIN THE FOLLOWING CLEARANCES TO EXISTING UTILITIES:
6' HORIZONTAL CLEARANCE TO WATER AND SEWER PIPES
4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

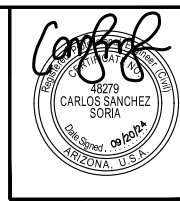
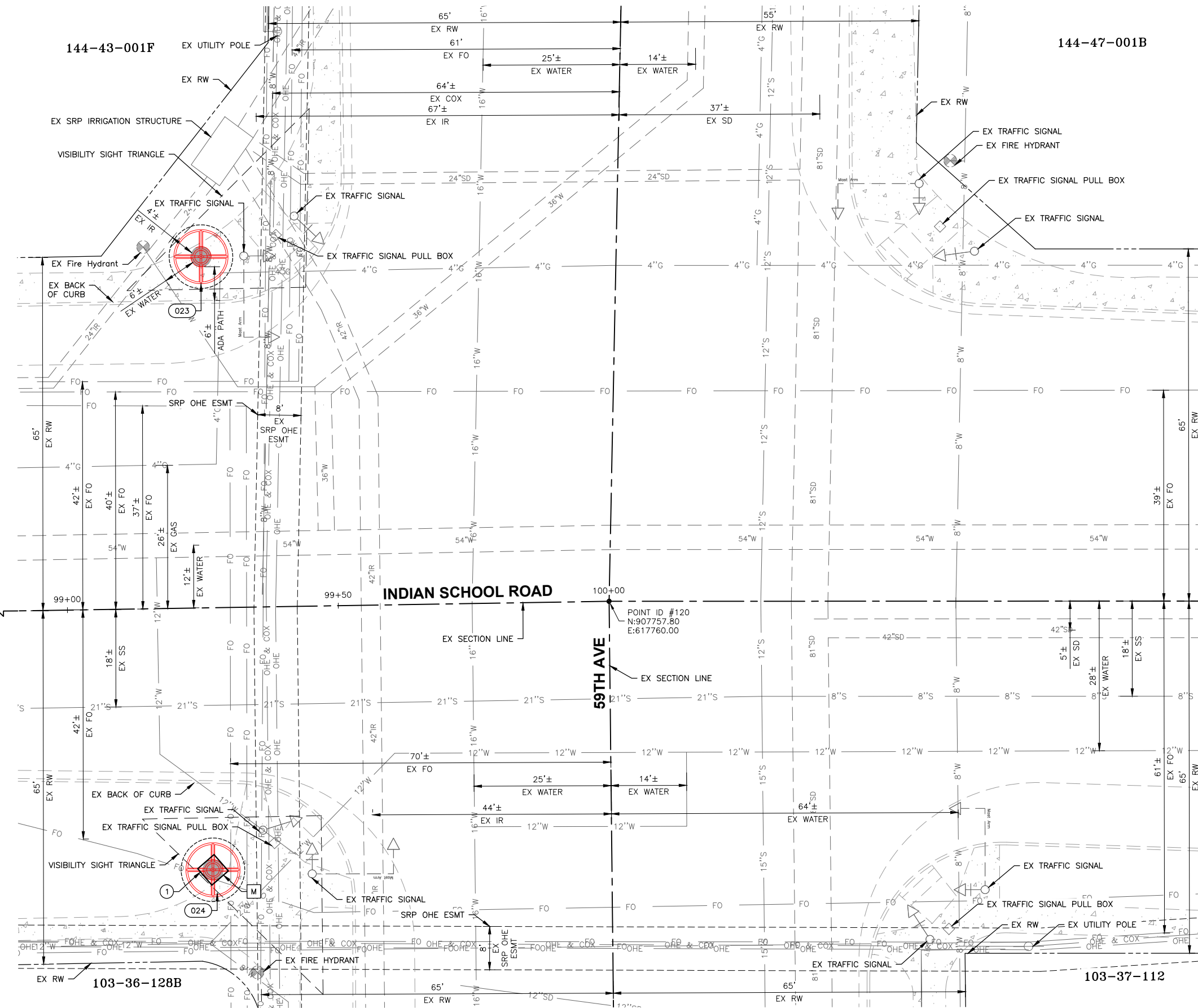
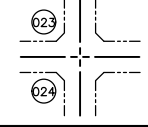
1. SEE SHEETS 21-25 FOR CONCRETE PAD CONTROL.



CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.
PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

PLAN SHEET 12					
CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT					
PHOENIX SHADE STRUCTURES CAMELBACK ROAD & 23RD AVE ST85170116-1					
DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	16	42	*
SCALE: 1" = 10'					

Locations:
 #023, NW Corner
 #024, SW Corner



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT	
9	ARIZ.	ST85170116-1	17	42	*	
DES: CSS			DR: ZD	CK: CSS	DATE: 09/24	
TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER						
<div style="display: flex; justify-content: space-between;"> M MATCH EXISTING P PROTECT IN PLACE S SAWCUT AND MATCH EXISTING </div>						
CONSTRUCTION NOTES						
NO.	DESCRIPTION				UNIT	QTY.
1	CONSTRUCT CONCRETE SLAB FOR SHADE STRUCTURE, 6" THICK				SF	16
SHADE STRUCTURE TYPE & PLACEMENT						
NO.	STRUCTURE TYPE	ORIENTATION ANGLE				
023	CACTUS W/POT 99+25+71, 64.82' LT	N/A				
024	CACTUS W/POT 99+26.08, 48.37' RT	N/A				

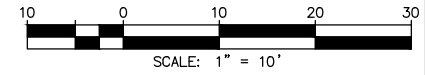
REVISION BY	DESCRIPTION	NO.	DATE
CITY OF PHOENIX			
CITY OF PHOENIX			
CITY OF PHOENIX			
CITY OF PHOENIX			

HORIZONTAL DATUM
 NAD83 AZ STATE PLANE-CENTRAL ZONE, INTERNATIONAL FEET
PRIMARY BENCHMARK
 #120 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF INDIAN SCHOOL RD & 59TH AVE
 ELEV=1106.72 NAD83 DATUM
SECONDARY BENCHMARK
 #3655 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF INDIAN SCHOOL RD & 63RD AVE
 ELEV=1102.33 NAD83 DATUM

GENERAL NOTES
 AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
 EXISTING UTILITIES OBTAINED FROM CITY'S QUARTER SECTION MAPS (WATER,SEWER,STORM DRAIN) AND UTILITY MAPPING.
 EXISTING RIGHT OF WAY OBTAINED FROM CITY'S QUARTER SECTION MAPS.
 EXISTING SURVEY POINT INFORMATION OBTAINED FROM MARICOPA COUNTY LAND SURVEY'S MAP.
 STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.
 STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

CAUTION!!! HIGH PRESSURE GAS LINE NEARBY!
 CONTRACTOR SHALL MAINTAIN THE FOLLOWING CLEARANCES TO EXISTING UTILITIES:
 6' HORIZONTAL CLEARANCE TO WATER AND SEWER PIPES
 4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
 2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

1. SEE SHEETS 21-25 FOR CONCRETE PAD CONTROL.



CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.
 *PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

PLAN SHEET 13

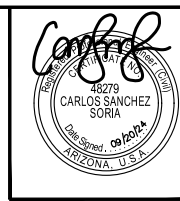
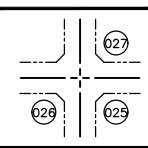
CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

**PHOENIX SHADE STRUCTURES
 INDIAN SCHOOL ROAD & 59TH AVE
 ST85170116-1**

DR: ZD	DES: CSS	CK: CSS	SHEET	TOTAL	AS
DATE: 09/24	DATE: 09/24	DATE: 09/24	NO:	SHEETS	BUILT
SCALE: 1" = 10'			17	42	*

9/19/2024 11:41:36 PM Zachary DeMark tylin@tylin.com

Locations:
 #025, SE Corner
 #026, SW Corner
 #027, NE Corner



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	18	42	*

TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER

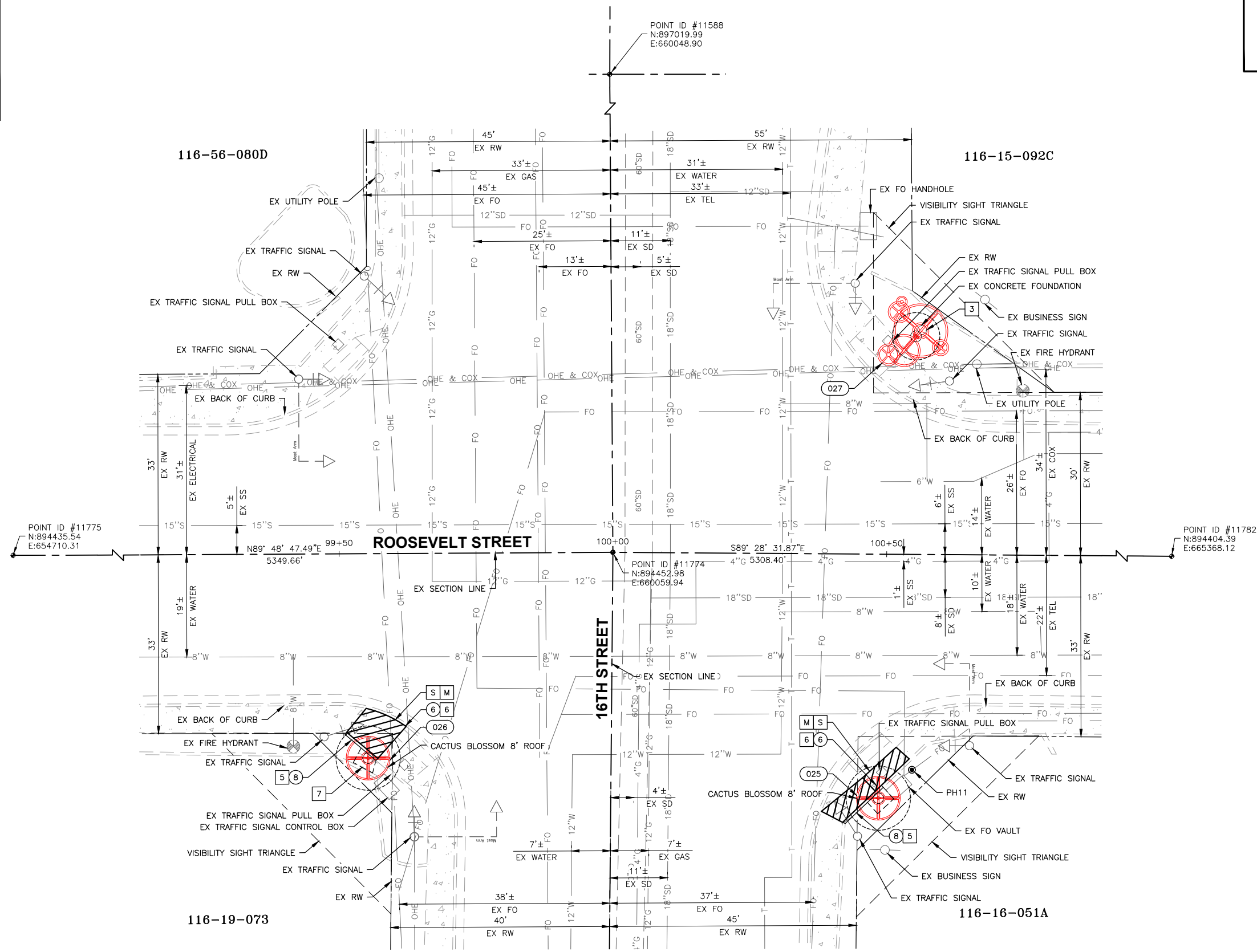
DES: CSS DR: ZD CK: CSS DATE: 09/24

M MATCH EXISTING
 P PROTECT IN PLACE
 S SAWCUT AND MATCH EXISTING

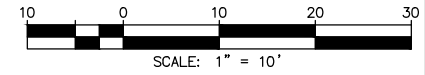
REMOVALS			
NO.	DESCRIPTION	UNIT	QTY.
3	REMOVE EXISTING CONCRETE FOUNDATION	EA	1
5	REMOVE VERTICAL CONCRETE CURB	LF	17
6	REMOVE EXISTING CONCRETE SIDEWALK RAMP PANEL	SF	118
7	REMOVE AND RESTORE ARTIFICIAL TURF	SF	10

CONSTRUCTION NOTES			
NO.	DESCRIPTION	UNIT	QTY.
6	CONSTRUCT CONCRETE SIDEWALK RAMP PANEL, 9" THICK	SF	114
8	CONSTRUCT SINGLE CONCRETE CURB, MATCH EXISTING HEIGHT	LF	17

SHADE STRUCTURE TYPE & PLACEMENT		
NO.	STRUCTURE TYPE LOCATION	ORIENTATION ANGLE
025	CACTUS 8' ROOF 100+48.78, 44.59' RT	N/A
026	CACTUS 8' ROOF 99+55.09, 37.35' RT	N/A
027	MULTI PANEL CACTUS 100+55.10, 39.86' LT	230°



1. SEE SHEETS 21-25 FOR CONCRETE PAD CONTROL.



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 PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

PLAN SHEET 14

CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

**PHOENIX SHADE STRUCTURES
 ROOSEVELT ST & 16TH STREET
 ST85170116-1**

DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	18	42	*

SCALE: 1" = 10'

HORIZONTAL DATUM
 NAD83 AZ STATE PLANE-CENTRAL ZONE, INTERNATIONAL FEET
PRIMARY BENCHMARK
 #11774 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF ROOSEVELT ST & 16TH ST
 ELEV=1102.11 NAD83 DATUM
SECONDARY BENCHMARK
 #11782 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF ROOSEVELT ST & 24TH ST
 ELEV=1115.41 NAD83 DATUM

GENERAL NOTES
 AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
 EXISTING UTILITIES OBTAINED FROM CITY'S QUARTER SECTION MAPS (WATER, SEWER, STORM DRAIN) AND UTILITY MAPPING.
 EXISTING RIGHT OF WAY OBTAINED FROM CITY'S QUARTER SECTION MAPS.
 EXISTING SURVEY POINT INFORMATION OBTAINED FROM MARICOPA COUNTY LAND SURVEY'S MAP.
 STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.
 STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

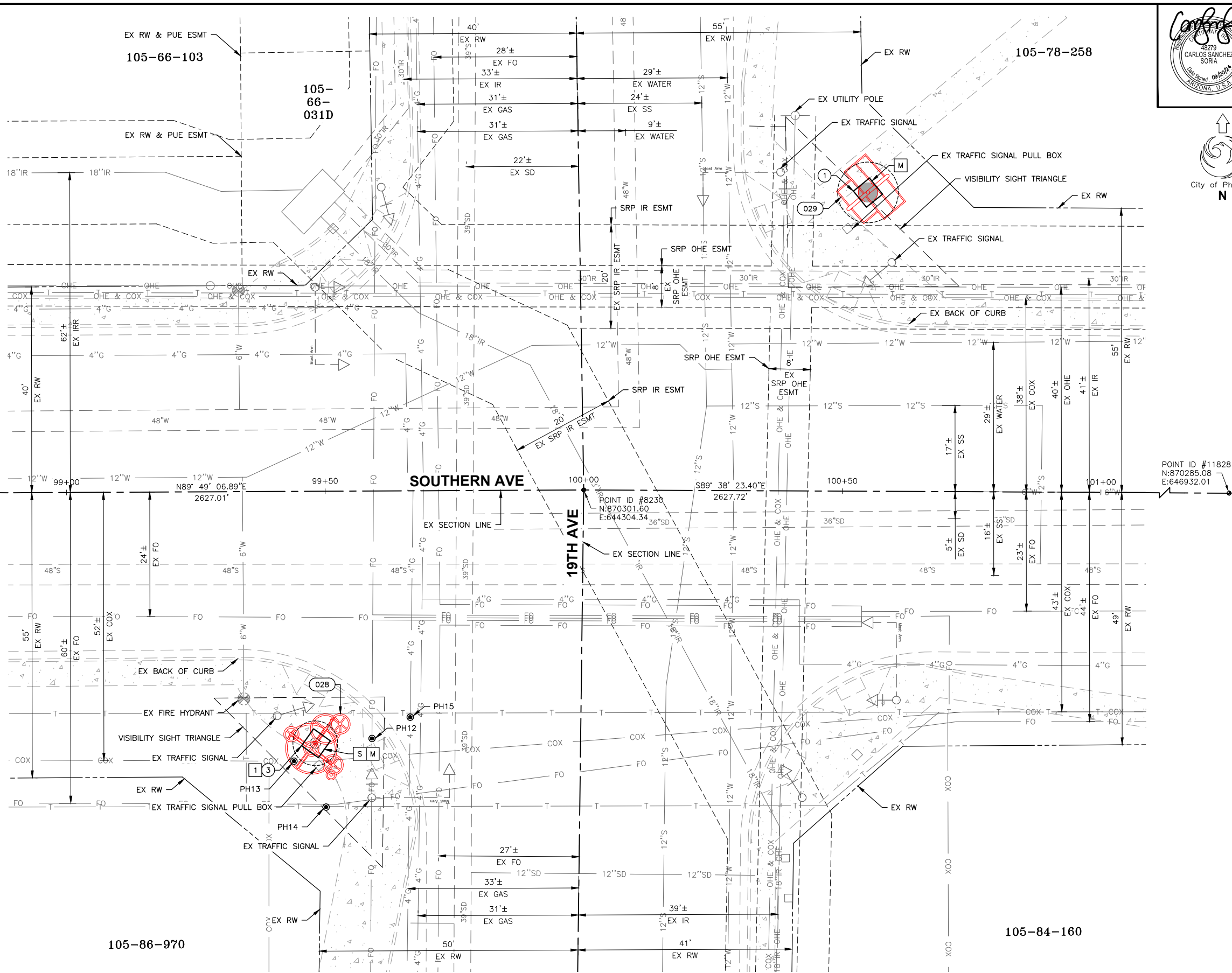
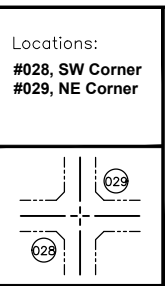
CAUTION!!! HIGH PRESSURE GAS LINE NEARBY

CONTRACTOR SHALL MAINTAIN THE FOLLOWING CLEARANCES TO EXISTING UTILITIES:
 6' HORIZONTAL CLEARANCE TO WATER AND SEWER PIPES
 4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
 2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

REVISION BY	DESCRIPTION	NO.	DATE
CITY OF PHOENIX			
CITY OF PHOENIX			
CITY OF PHOENIX			

9/19/2024 11:45:52 PM
 Zachary DeMark
 City of Phoenix
 PL.dwg

REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE
REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE
REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE



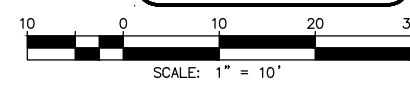
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	19	42	*
DES: CSS		DR: ZD	CK: CSS	DATE: 09/24	
TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER 48279 CARLOS SANCHEZ SORIA State of Arizona, U.S.A.					
MATCH EXISTING PROTECT IN PLACE SAWCUT AND MATCH EXISTING					
REMOVALS					
NO.	DESCRIPTION	UNIT	QTY.		
1	REMOVE EXISTING CONCRETE SIDEWALK	SF	16		
CONSTRUCTION NOTES					
NO.	DESCRIPTION	UNIT	QTY.		
1	CONSTRUCT CONCRETE SLAB FOR SHADE STRUCTURE, 6" THICK	SF	18		
3	CONSTRUCT CONCRETE SLAB, 4" THICK TO PROVIDE FLAT LANDING	SF	16		
SHADE STRUCTURE TYPE & PLACEMENT					
NO.	STRUCTURE TYPE LOCATION	ORIENTATION ANGLE			
028	MULTI PANEL CACTUS 99+47.85, 48.74' RT	55°			
029	BUTTERFLY WPOT 100+54.70, 57.81' LT	40°			

HORIZONTAL DATUM
NAD83 AZ STATE PLANE-CENTRAL ZONE, INTERNATIONAL FEET
PRIMARY BENCHMARK
#8230 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF SOUTHERN AVE & 19TH AVE
ELEV=1085.25 NAD83 DATUM
SECONDARY BENCHMARK
#8231 COP BRASS CAP IN HAND HOLE AT THE INTERSECTION OF SOUTHERN AVE & 23RD AVE
ELEV=1073.60 NAD83 DATUM

GENERAL NOTES
AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
EXISTING UTILITIES OBTAINED FROM CITY'S QUARTER SECTION MAPS (WATER,SEWER,STORM DRAIN) AND UTILITY MAPPING.
EXISTING RIGHT OF WAY OBTAINED FROM CITY'S QUARTER SECTION MAPS.
EXISTING SURVEY POINT INFORMATION OBTAINED FROM MARICOPA COUNTY LAND SURVEY'S MAP.
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STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

CAUTION!!! HIGH PRESSURE GAS LINE NEARBY!
CONTRACTOR SHALL MAINTAIN THE FOLLOWING CLEARANCES TO EXISTING UTILITIES:
6' HORIZONTAL CLEARANCE TO WATER AND SEWER PIPES
4' HORIZONTAL CLEARANCE TO SRP IRRIGATION PIPES AND STRUCTURES
2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

1. SEE SHEETS 21-25 FOR CONCRETE PAD CONTROL.



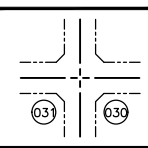
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PLAN SHEET 15
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
PHOENIX SHADE STRUCTURES
SOUTHERN AVE & 19TH AVE
ST85170116-1

DR: ZD	DES: CSS	CK: CSS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	19	42	*

SCALE: 1" = 10'

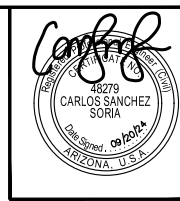
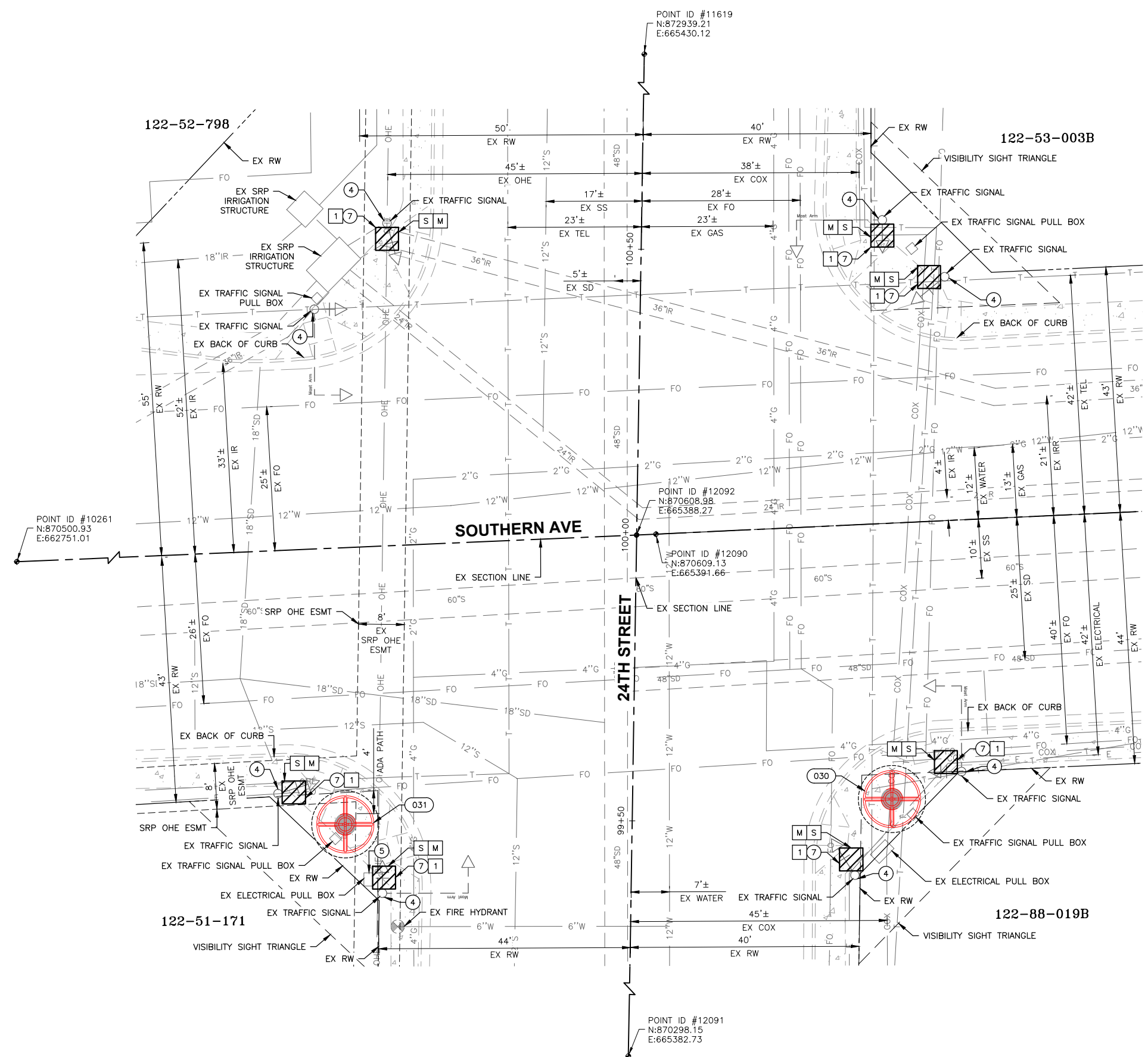
Locations:
 #030, SE Corner
 #031, SW Corner



NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	20	42	*

TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER

DES: CSS DR: ZD CK: CSS DATE: 09/24

M MATCH EXISTING
 P PROTECT IN PLACE
 S SAWCUT AND MATCH EXISTING

REMOVALS			
NO.	DESCRIPTION	UNIT	QTY.
1	REMOVE EXISTING CONCRETE SIDEWALK	SF	71

CONSTRUCTION NOTES			
NO.	DESCRIPTION	UNIT	QTY.
4	FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) ON EXISTING POLE	EA	8
5	ADJUST UTILITY PULL BOX	EA	1
7	CONSTRUCT CONCRETE SLAB FOR ACCESSIBLE PEDESTRIAN SIGNAL (APS), 9" THICK TO PROVIDE 48"x48" FLAT LANDING	SF	113

SHADE STRUCTURE TYPE & PLACEMENT		
NO.	STRUCTURE TYPE LOCATION	ORIENTATION ANGLE
030	CACTUS W/POT 99+54.52, 45.35' RT	N/A
031	CACTUS W/POT 99+48.61, 50.14' LT	N/A

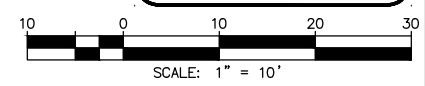
HORIZONTAL DATUM
 NAD83 AZ STATE PLANE-CENTRAL ZONE, INTERNATIONAL FEET
 PRIMARY BENCHMARK
 #12092 COP BRASS CAP AT THE INTERSECTION OF SOUTHERN AVE & 24TH ST
 ELEV=1124.40 NAD83 DATUM
 SECONDARY BENCHMARK
 #12091 COP BRASS CAP IN HAND HOLE AT 24TH ST
 ELEV=1126.20 NAD83 DATUM

GENERAL NOTES
 AERIAL MAPPING AND CENTERLINE INFORMATION OBTAINED FROM MARICOPA COUNTY ASSESSOR'S MAP.
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 EXISTING RIGHT OF WAY OBTAINED FROM CITY'S QUARTER SECTION MAPS.
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 STRUCTURE PLACEMENT STATION AND OFFSET IS TAKEN FROM THE CENTER OF STRUCTURE.
 STRUCTURE ORIENTATION ANGLE BASED ON TRUE EAST = 0.00°

CAUTION!!! HIGH PRESSURE GAS LINE NEARBY!

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 2' HORIZONTAL CLEARANCE TO TRAFFIC SIGNAL CONDUITS AND OTHER UTILITIES

1. SEE SHEETS 21-25 FOR CONCRETE PAD CONTROL.



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PLAN SHEET 16

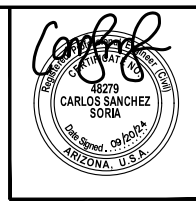
CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

**PHOENIX SHADE STRUCTURES
 SOUTHERN AVE & 24TH STREET
 ST85170116-1**

DR: ZD	DES: CSS	CK: CSS	SHEET NO: 20	TOTAL SHEETS: 42	AS BUILT: *
DATE: 09/24	DATE: 09/24	DATE: 09/24			

SCALE: 1" = 10'

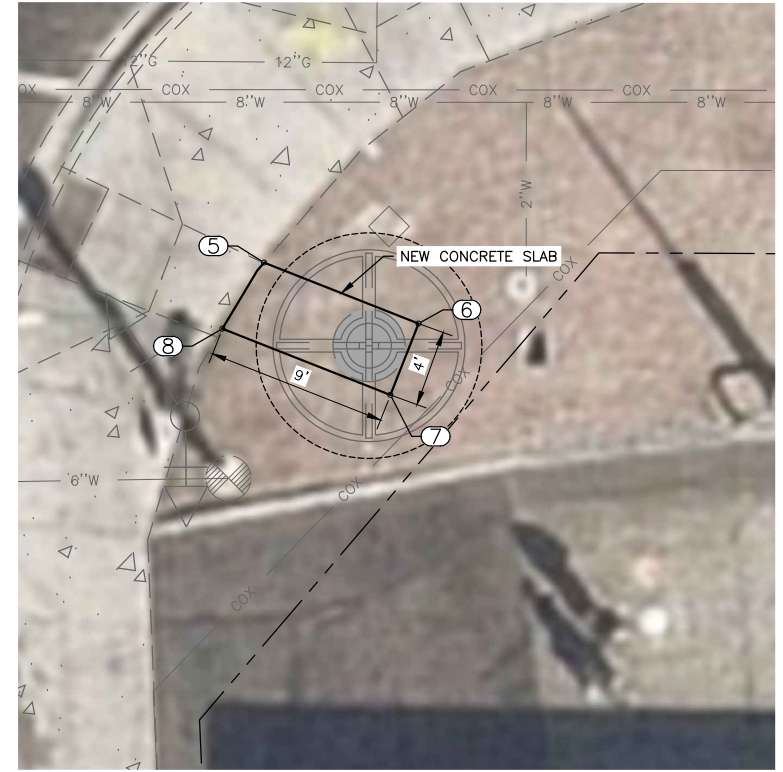
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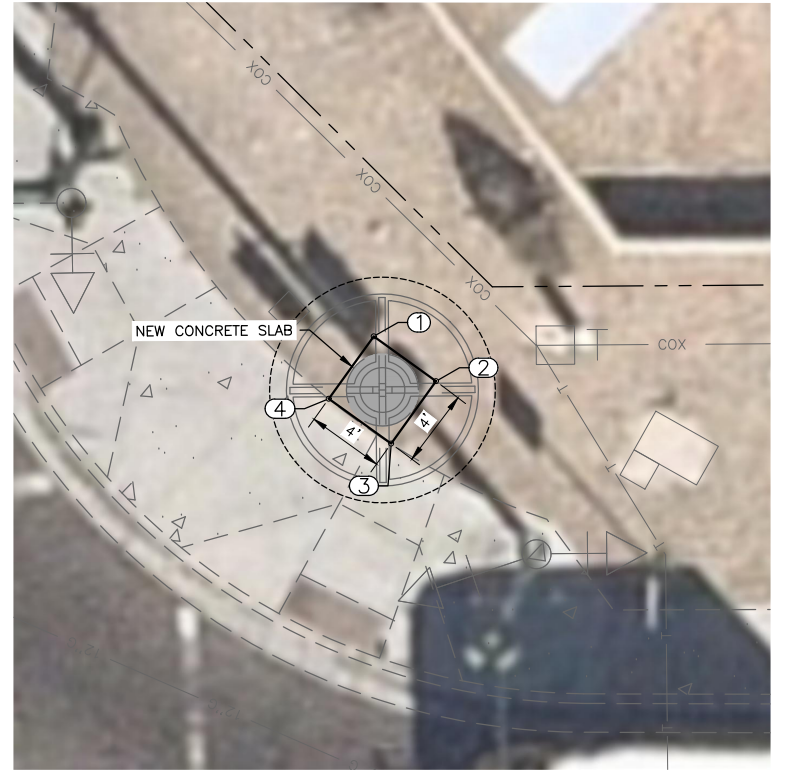
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	21	42	*

TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER

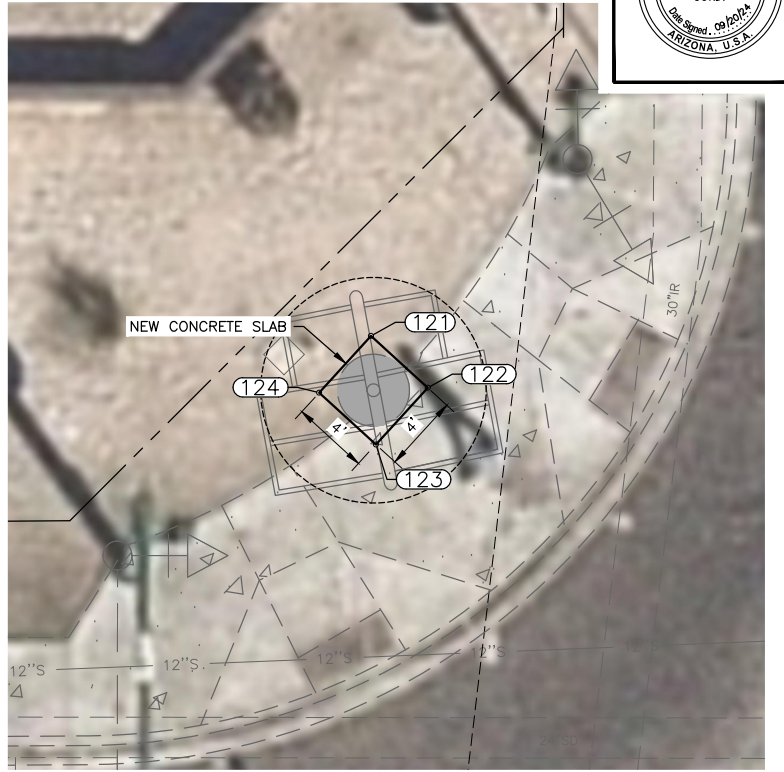
DES: CSS DR: ZD CK: CSS DATE: 09/24



PL01 DUNLAP AVE & 19TH AVE - SE CORNER
CONCRETE PAD - HORIZONTAL CONTROL



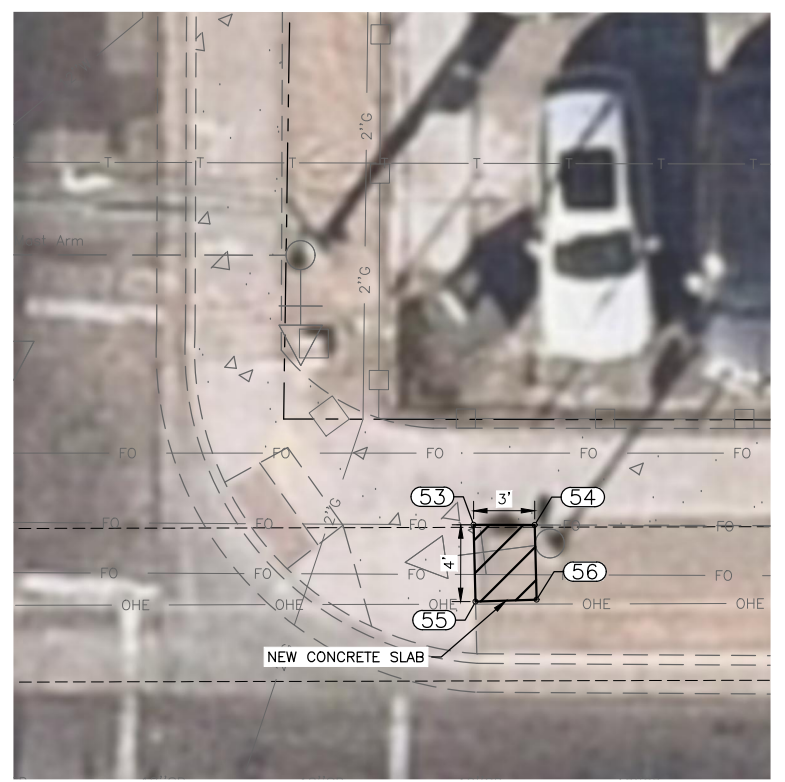
PL01 DUNLAP AVE & 19TH AVE - NE CORNER
CONCRETE PAD - HORIZONTAL CONTROL



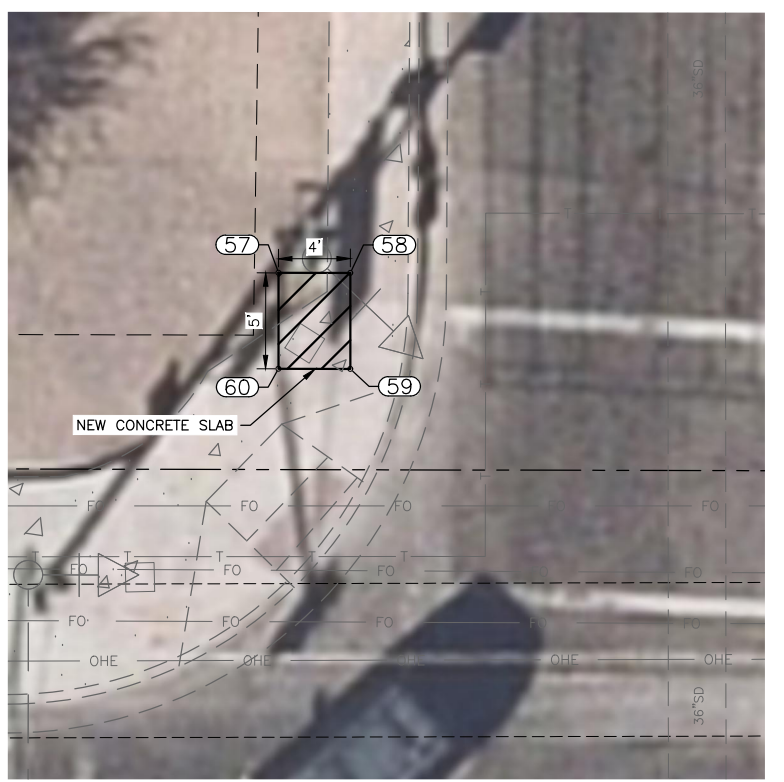
PL01 DUNLAP AVE & 19TH AVE - NW CORNER
CONCRETE PAD - HORIZONTAL CONTROL



PL05 VAN BUREN ST & 28TH ST - SW CORNER
CONCRETE PAD - HORIZONTAL CONTROL

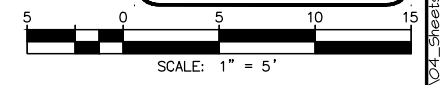


PL05 VAN BUREN ST & 28TH ST - NE CORNER
CONCRETE PAD - HORIZONTAL CONTROL



PL05 VAN BUREN ST & 28TH ST - NW CORNER
CONCRETE PAD - HORIZONTAL CONTROL

1. SEE SHEET 25 FOR POINT HORIZONTAL CONTROL TABLES.



CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.
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HORIZONTAL CONTROL 01
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
PHOENIX SHADE STRUCTURES
ST85170116-1

DR:	DES:	CK:	SHEET	TOTAL	AS
DATE: 09/24	DATE: 09/24	DATE: 09/24	NO:	SHEETS	BUILT
			21	42	*

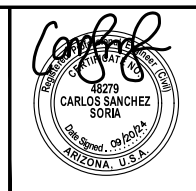
SCALE: 1" = 5'

9/19/2024 11:02:21 PM zachary DeMark ty Lin Horizontal Control.dwg

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHKD BY

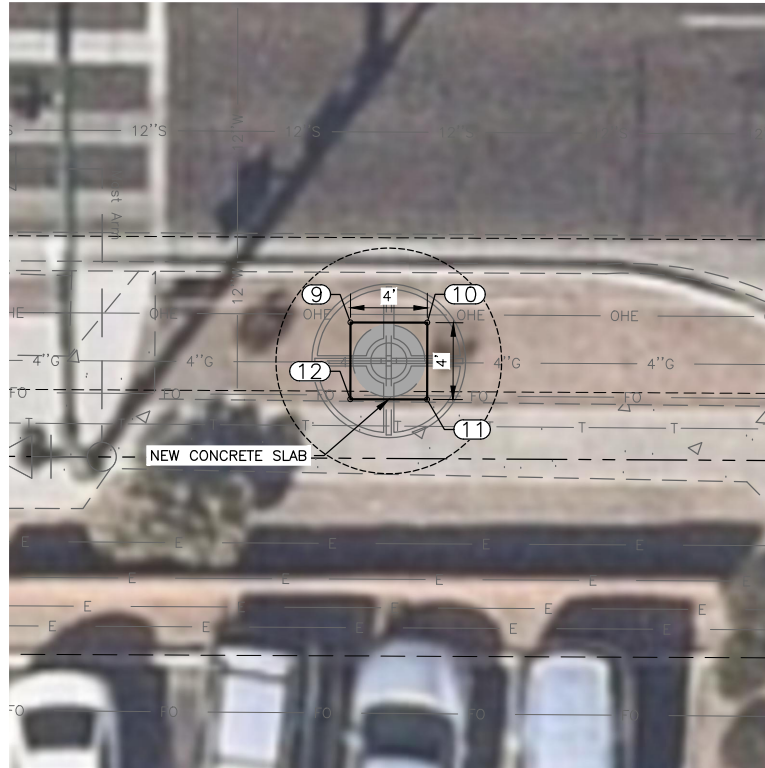
REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHKD BY

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHKD BY



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	22	42	*

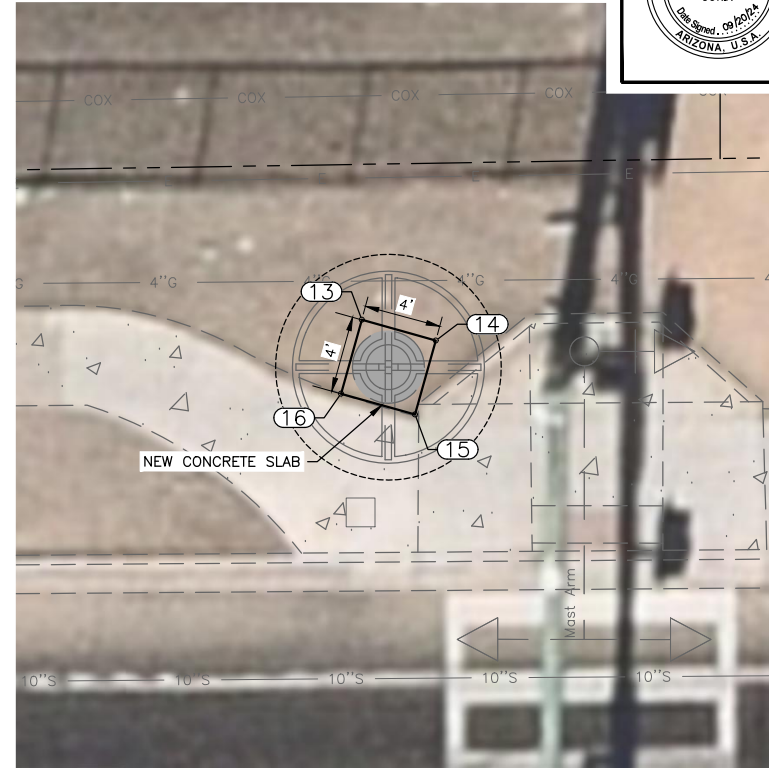
TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER
 DES: CSS DR: ZD CK: CSS DATE: 09/24



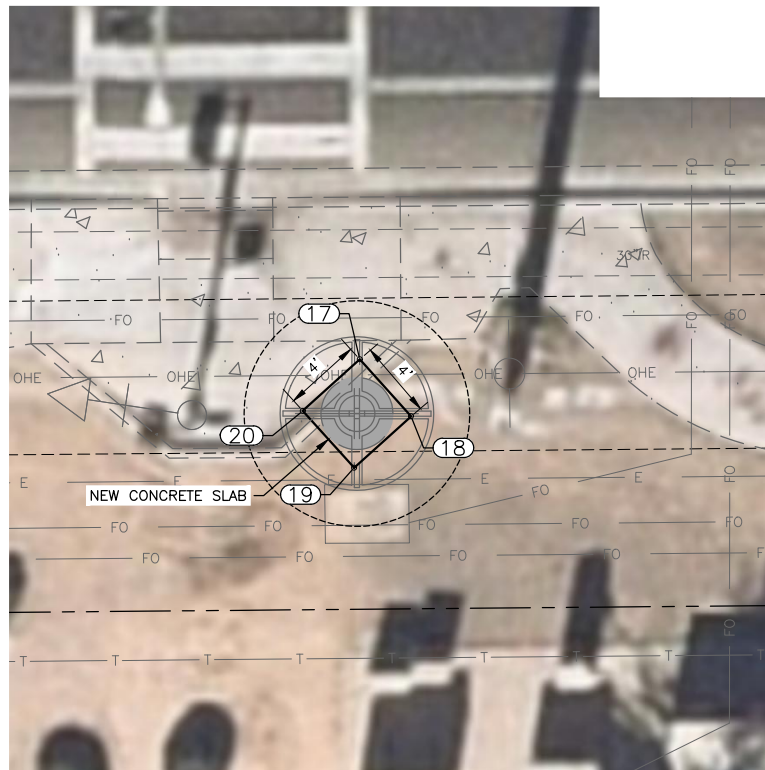
PL06 VAN BUREN ST & W OF 35TH ST - SOUTH SIDE
 CONCRETE PAD - HORIZONTAL CONTROL



PL08 N OF MCDOWELL RD & 16TH ST - WEST SIDE
 CONCRETE PAD - HORIZONTAL CONTROL



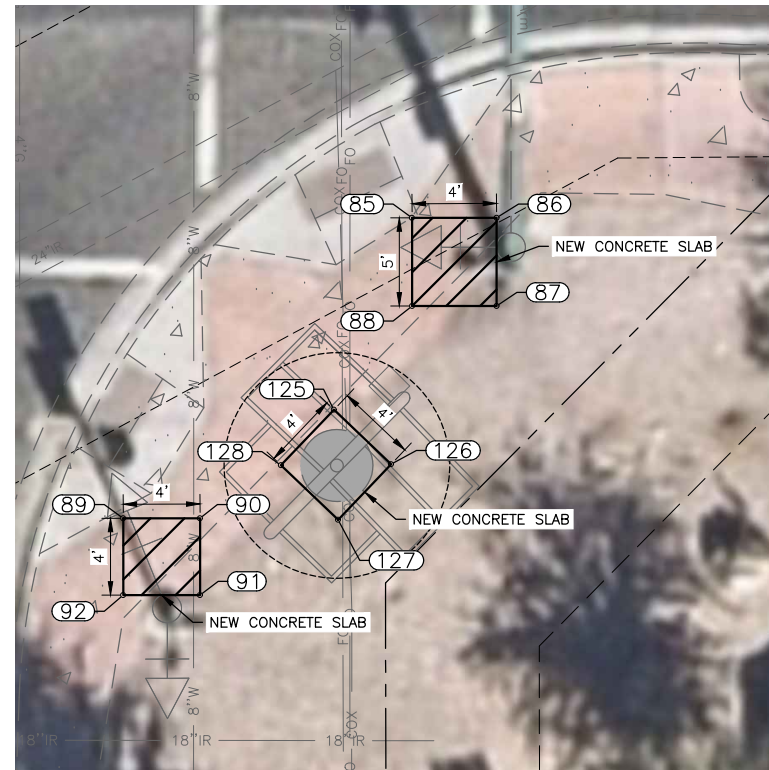
PL10 MCDOWELL RD & W OF 67TH AVE - NORTH SIDE
 CONCRETE PAD - HORIZONTAL CONTROL



PL10 MCDOWELL RD & W OF 67TH AVE - SOUTH SIDE
 CONCRETE PAD - HORIZONTAL CONTROL

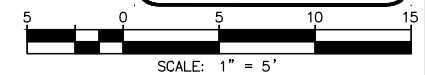


PL11 NORTHERN AVE & 35TH AVE - NE CORNER
 CONCRETE PAD - HORIZONTAL CONTROL



PL12 CAMELBACK RD & 23RD AVE - SE CORNER
 CONCRETE PAD - HORIZONTAL CONTROL

1. SEE SHEET 25 FOR POINT HORIZONTAL CONTROL TABLES.



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 PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

HORIZONTAL CONTROL 02
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
PHOENIX SHADE STRUCTURES
ST85170116-1

DR:	DES:	CK:	SHEET NO:	TOTAL SHEETS:	AS BUILT:
DATE: 09/24	DATE: 09/24	DATE: 09/24	22	42	*

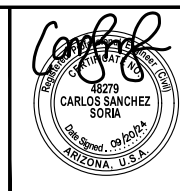
SCALE: 1" = 5'

9/19/2024 11:05:56 PM Zachary DeMark tylin.lin@tylin.com

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHKD BY

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHKD BY

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHKD BY



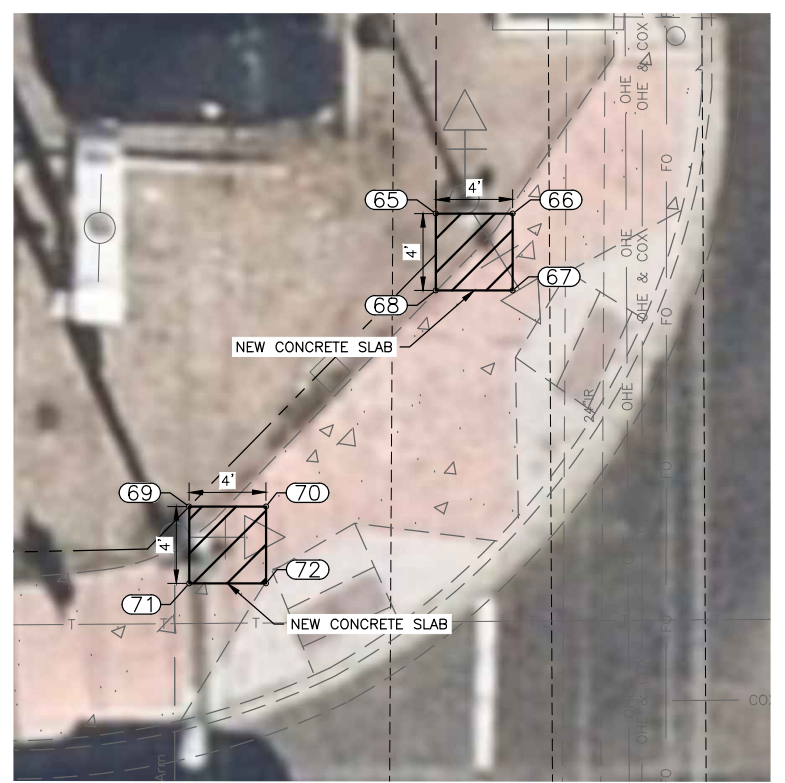
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	23	42	*

TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER

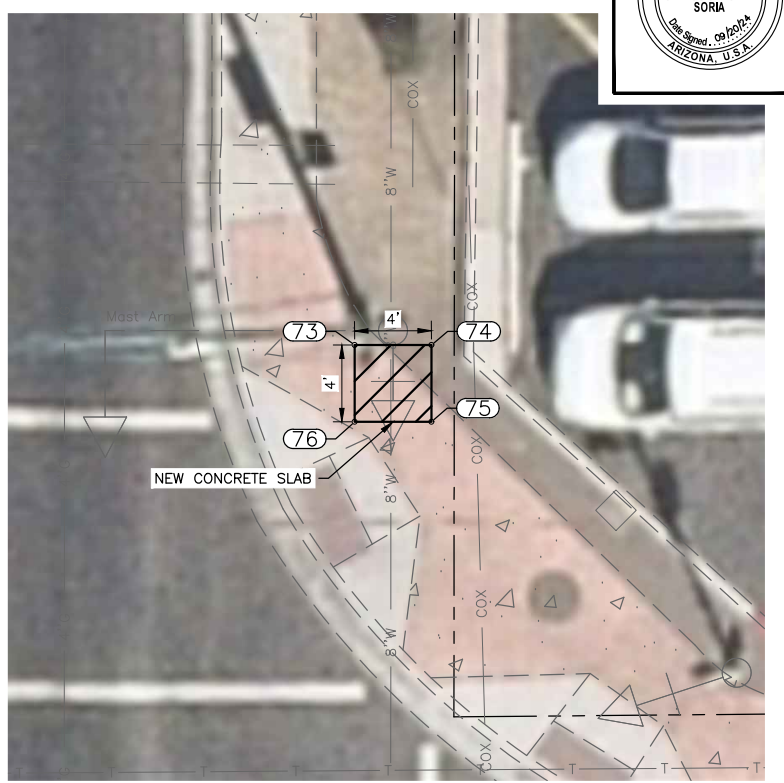
DES: CSS | DR: ZD | CK: CSS | DATE: 09/24



PL12 CONCRETE PAD - HORIZONTAL CONTROL



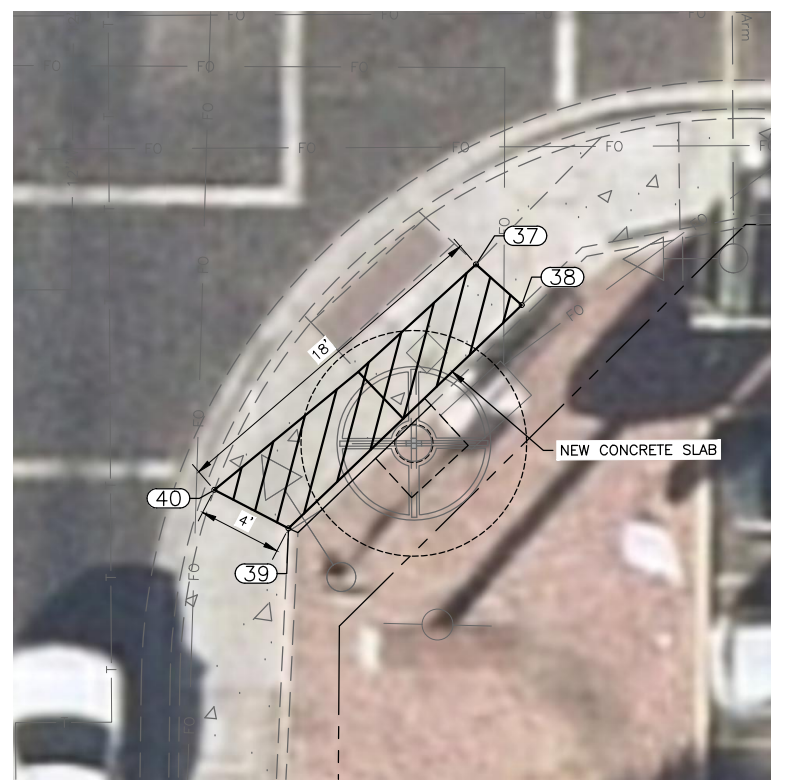
PL12 CONCRETE PAD - HORIZONTAL CONTROL



PL12 CONCRETE PAD - HORIZONTAL CONTROL



PL13 CONCRETE PAD - HORIZONTAL CONTROL

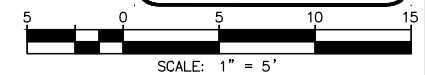


PL14 CONCRETE PAD - HORIZONTAL CONTROL



PL14 CONCRETE PAD - HORIZONTAL CONTROL

1. SEE SHEET 25 FOR POINT HORIZONTAL CONTROL TABLES.



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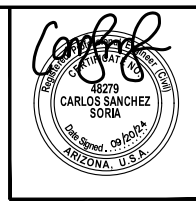
HORIZONTAL CONTROL 03
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
PHOENIX SHADE STRUCTURES
ST85170116-1

DR:	DES:	CK:	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	23	42	*

SCALE: 1" = 5'

9/19/2024 11:11:14 PM Zachary DeMark ty.lin@tylin.com

REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION
REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION
REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	24	42	*

TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER

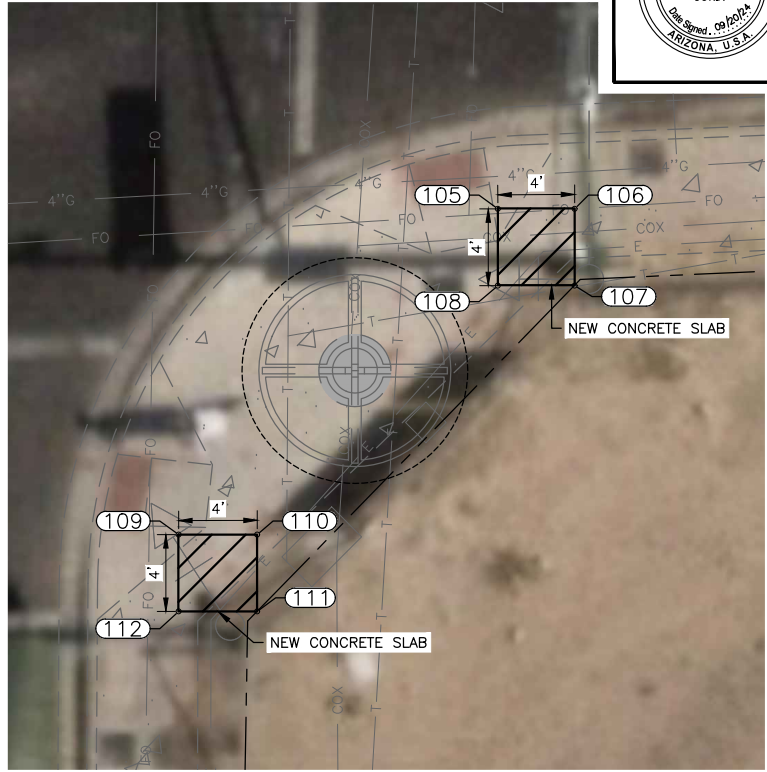
DES: CSS | DR: ZD | CK: CSS | DATE: 09/24



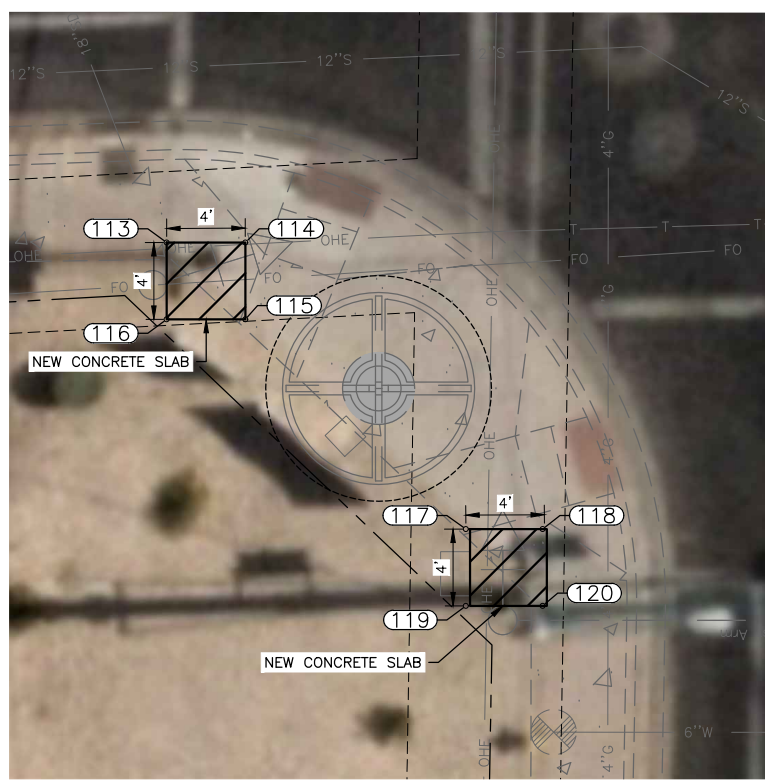
PL15 SOUTHERN AVE & 19TH AVE - SW CORNER
CONCRETE PAD - HORIZONTAL CONTROL



PL15 SOUTHERN AVE & 19TH AVE - NE CORNER
CONCRETE PAD - HORIZONTAL CONTROL



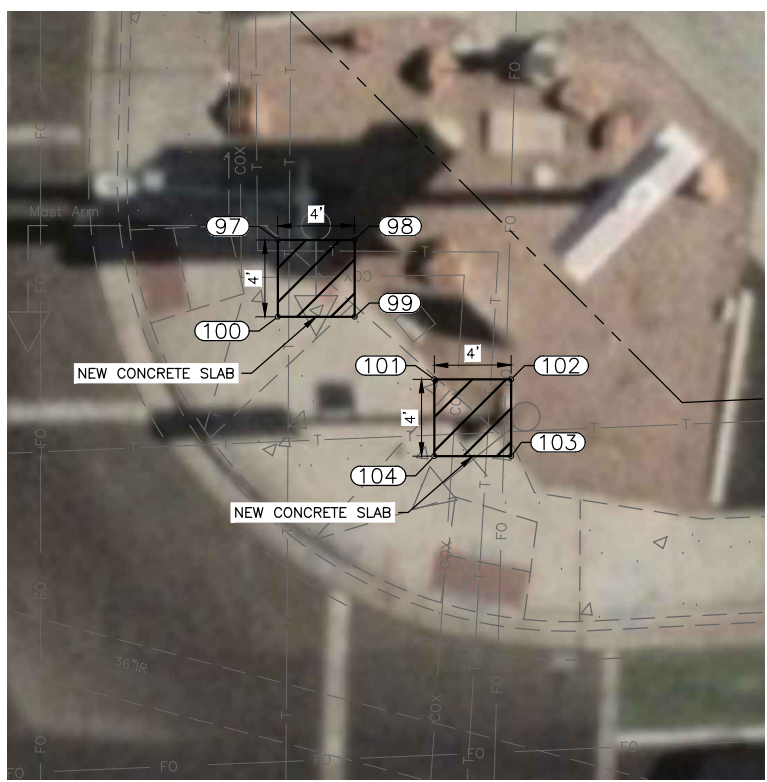
PL16 SOUTHERN AVE & 24TH ST - SE CORNER
CONCRETE PAD - HORIZONTAL CONTROL



PL16 SOUTHERN AVE & 24TH ST - SW CORNER
CONCRETE PAD - HORIZONTAL CONTROL

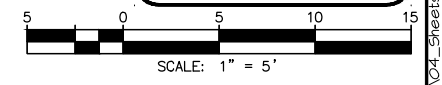


PL16 SOUTHERN AVE & 24TH ST - NW CORNER
CONCRETE PAD - HORIZONTAL CONTROL



PL16 SOUTHERN AVE & 24TH ST - NE CORNER
CONCRETE PAD - HORIZONTAL CONTROL

1. SEE SHEET 25 FOR POINT HORIZONTAL CONTROL TABLES.

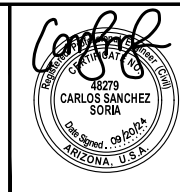


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HORIZONTAL CONTROL 04
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
PHOENIX SHADE STRUCTURES
ST85170116-1

DR:	DES:	CK:	SHEET	TOTAL	AS
DATE: 09/24	DATE: 09/24	DATE: 09/24	NO:	SHEETS	BUILT
SCALE: 1" = 5'			24	42	*

9/19/2024 11:13:33 PM zachary.beMark ty Lin Horizontal Control.dwg



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	25	42	*

TYLin TYLIN INTERNATIONAL
CONSULTING ENGINEER

DES: CSS DR: ZD CK: CSS DATE: 09/24

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHK BY

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHK BY

REVISION BY CITY OF PHOENIX			
NO.	DESCRIPTION	REV BY	CHK BY

Point Table			
Point #	Northing	Easting	Description
1	934162.20	644348.39	CONCRETE
2	934159.84	644351.62	CONCRETE
3	934156.61	644349.26	CONCRETE
4	934158.97	644346.03	CONCRETE
5	934034.70	644347.85	CONCRETE
6	934031.53	644355.89	CONCRETE
7	934027.80	644354.42	CONCRETE
8	934031.25	644345.68	CONCRETE
9	891704.92	671835.89	CONCRETE
10	891704.92	671839.89	CONCRETE
11	891700.92	671839.89	CONCRETE
12	891700.92	671835.89	CONCRETE
13	897183.49	611662.99	CONCRETE
14	897182.42	611666.85	CONCRETE
15	897178.56	611665.77	CONCRETE
16	897179.64	611661.92	CONCRETE
17	897098.92	611682.23	CONCRETE
18	897095.96	611684.90	CONCRETE
19	897093.27	611681.94	CONCRETE
20	897096.23	611679.27	CONCRETE
21	928917.37	633777.52	CONCRETE
22	928914.38	633780.18	CONCRETE
23	928910.55	633775.87	CONCRETE
24	928913.54	633773.21	CONCRETE
25	907711.19	617687.00	CONCRETE
26	907708.16	617689.62	CONCRETE
27	907705.54	617686.59	CONCRETE
28	907708.57	617683.97	CONCRETE
29	898577.08	660011.47	CONCRETE
30	898572.75	660015.77	CONCRETE

Point Table			
Point #	Northing	Easting	Description
31	898567.66	660015.72	CONCRETE
32	898572.69	660011.47	CONCRETE
33	894424.55	660014.81	CONCRETE
34	894421.24	660022.09	CONCRETE
35	894415.42	660016.92	CONCRETE
36	894420.19	660011.25	CONCRETE
37	894417.25	660111.59	CONCRETE
38	894415.12	660113.96	CONCRETE
39	894403.55	660101.76	CONCRETE
40	894405.57	660097.91	CONCRETE
41	870255.47	644252.03	CONCRETE
42	870253.14	644255.28	CONCRETE
43	870249.89	644252.95	CONCRETE
44	870252.22	644249.70	CONCRETE
45	870361.84	644359.69	CONCRETE
46	870358.73	644362.21	CONCRETE
47	870356.21	644359.10	CONCRETE
48	870359.32	644356.58	CONCRETE
53	891788.47	668055.52	CONCRETE
54	891788.46	668058.70	CONCRETE
55	891784.47	668055.63	CONCRETE
56	891784.57	668058.81	CONCRETE
57	891804.25	667983.01	CONCRETE
58	891804.25	667986.75	CONCRETE
59	891799.25	667986.75	CONCRETE
60	891799.25	667983.01	CONCRETE
61	891710.78	667982.98	CONCRETE
62	891710.72	667988.19	CONCRETE
63	891708.04	667988.20	CONCRETE
64	891708.04	667982.99	CONCRETE

Point Table			
Point #	Northing	Easting	Description
65	913039.25	641516.00	CONCRETE
66	913039.25	641520.00	CONCRETE
67	913035.25	641520.00	CONCRETE
68	913035.25	641516.00	CONCRETE
69	913024.00	641503.15	CONCRETE
70	913024.00	641507.16	CONCRETE
71	913020.00	641503.16	CONCRETE
72	913020.00	641507.16	CONCRETE
73	913040.60	641576.89	CONCRETE
74	913040.60	641580.89	CONCRETE
75	913036.60	641580.89	CONCRETE
76	913036.60	641576.89	CONCRETE
81	912915.54	641516.11	CONCRETE
82	912915.55	641522.61	CONCRETE
83	912909.25	641522.61	CONCRETE
84	912909.24	641516.11	CONCRETE
85	912930.29	641590.09	CONCRETE
86	912930.29	641594.50	CONCRETE
87	912925.70	641594.50	CONCRETE
88	912925.70	641590.10	CONCRETE
89	912914.64	641575.05	CONCRETE
90	912914.64	641579.05	CONCRETE
91	912910.64	641579.05	CONCRETE
92	912910.64	641575.05	CONCRETE
93	870662.89	665342.75	CONCRETE
94	870662.89	665346.74	CONCRETE
95	870658.89	665346.75	CONCRETE
96	870658.89	665342.75	CONCRETE
97	870663.26	665429.35	CONCRETE
98	870663.26	665433.35	CONCRETE

Point Table			
Point #	Northing	Easting	Description
99	870659.26	665433.35	CONCRETE
100	870659.26	665429.35	CONCRETE
101	870656.00	665437.50	CONCRETE
102	870656.00	665441.50	CONCRETE
103	870652.00	665441.50	CONCRETE
104	870652.00	665437.50	CONCRETE
105	870571.12	665440.25	CONCRETE
106	870571.12	665444.25	CONCRETE
107	870567.12	665444.25	CONCRETE
108	870567.12	665440.25	CONCRETE
109	870554.15	665423.63	CONCRETE
110	870554.15	665427.72	CONCRETE
111	870550.15	665427.72	CONCRETE
112	870550.15	665423.63	CONCRETE
113	870566.09	665326.19	CONCRETE
114	870566.09	665330.29	CONCRETE
115	870562.09	665330.29	CONCRETE
116	870562.09	665326.19	CONCRETE
117	870551.16	665341.77	CONCRETE
118	870551.16	665345.77	CONCRETE
119	870547.16	665341.77	CONCRETE
120	870547.16	665345.77	CONCRETE
121	934152.89	644218.46	CONCRETE
122	934150.19	644221.42	CONCRETE
123	934147.23	644218.72	CONCRETE
124	934149.93	644215.77	CONCRETE
125	912920.30	641586.03	CONCRETE
126	912917.46	641589.00	CONCRETE
127	912914.56	641586.24	CONCRETE
128	912917.40	641583.27	CONCRETE

Call at least two full working days before you begin excavation.

ARIZONA 811
Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

SCALE: 1" = 5'

CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

HORIZONTAL CONTROL 05

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PHOENIX SHADE STRUCTURES

ST85170116-1

DR:	DES:	CK:	SHEET	TOTAL	AS
DATE: 09/24	DATE: 09/24	DATE: 09/24	NO:	SHEETS	BUILT
SCALE: 1" = 5'			25	42	*

9/16/2024 11:55 PM Zachary DeMark

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

CODE AND STANDARD MANUALS:

- LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS, 2015 EDITION - (FOR DRILLED SHAFT DESIGN)
- AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - ACI 318-19
- AISC MANUAL OF STEEL CONSTRUCTION - 15TH EDITION
- AMERICAN WELDING SOCIETY D1.1 AND D1.3
- 2018 INTERNATIONAL BUILDING CODE (IBC)
- MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES (ASCE7-22)
- CITY OF PHOENIX DEVELOPMENT GUIDELINES & INTERPRETATIONS
- CITY OF PHOENIX STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION 2012 EDITION, WITH 2015 SUPPLEMENTS (COP STD SPEC)

DESIGN LOADS AND CRITERIA:

DESIGN LOADS
DEAD LOAD:
 SELF WEIGHT OF MATERIAL
LIVE LOAD:
 LATERAL PEDESTRIAN LEAN LOAD = 300 LBS AT 4 FEET ABOVE GROUND
 CANOPY LIVE LOAD = 5 PSF
 CANOPY HANGING LOAD = 300 LBS
SNOW LOAD:
 NOT APPLICABLE
WIND LOAD (GENERAL):
 ULTIMATE DESIGN WIND SPEED = 105 MPH
 RISK CATEGORY = II
 WIND EXPOSURE = C
 SERVICE WIND PRESSURE = ULTIMATE WIND PRESSURE * 0.7
WIND PRESSURE ON THE VERTICAL AND ROOF MEMBER:
 DESIGN PRESSURE = 27 PSF
WIND PRESSURE ON THE ROOF:
 LOAD CASE A: PRESSURE ACTING TOWARDS THE TOP ROOF SURFACE
 LOAD CASE B: PRESSURE ACTING AWAY FROM THE TOP ROOF SURFACE
WIND PRESSURE ON THE ROOF SHOWN BELOW COULD BE REDUCED BASED ON THE OPENING RATIO.
WIND (CACTUS BLOSSOM):
 LOAD CASE A:
 NET PRESSURE COEFFICIENT = 1.2
 DESIGN PRESSURE = 20 PSF
 LOAD CASE B:
 NET PRESSURE COEFFICIENT = -1.1
 DESIGN PRESSURE = -20 PSF
 ROOF OPENING RATIO: 35%
WIND (CACTUS BLOSSOM VARIEGATED):
 LOAD CASE A:
 NET PRESSURE COEFFICIENT = 1.8
 DESIGN PRESSURE = 32 PSF
 LOAD CASE B:
 NET PRESSURE COEFFICIENT = -1.9
 DESIGN PRESSURE = -32 PSF
 ROOF OPENING RATIO: 35%
WIND (BUTTERFLY):
 LOAD CASE A:
 NET PRESSURE COEFFICIENT = 1.7
 DESIGN PRESSURE = 30 PSF
 LOAD CASE B:
 NET PRESSURE COEFFICIENT = -1.8
 DESIGN PRESSURE = -30 PSF
 ROOF OPENING RATIO: 43%
SEISMIC:
 RISK CATEGORY = II
 SEISMIC IMPORTANCE FACTOR = 1
 MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
 S_s = 0.18g, S₁ = 0.057g
 SITE CLASS = D
 DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
 SDS = 0.2g, SD1 = 0.11g
 SEISMIC DESIGN CATEGORY = B
GEOTECHNICAL PRESUMPTIVE VALUES:
 EFFECTIVE UNIT WEIGHT OF SOIL = 110 LBS/CF
 ANGLE OF INTERNAL FRICTION, PHI = 30°
 SOIL BEARING PRESSURE = 1,500 PSF AT 18" BELOW GROUND

GENERAL:

- STRUCTURE DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH ARCHITECTURAL AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO THE SHOP DRAWINGS AND FIELD WORK.
- CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
- SHOP DRAWINGS SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ENGINEER FOR REVIEW. POORLY EXECUTED SHOP DRAWING WILL BE REJECTED AND SHALL BE RESUBMITTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.
- NOTCHING OR CUTTING ANY STRUCTURAL MEMBER IN FIELD IS PROHIBITED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE STANDARDS SET FORTH BY OSHA, INCLUDING THE FOLLOWING REQUIREMENTS FROM STANDARDS - 29 CFR, SECTION 1926, SUBPART R:
 - ANCHOR RODS (ANCHOR BOLTS) SHALL NOT BE REPAIRED, REPLACED OR FIELD-MODIFIED WITHOUT THE APPROVAL OF THE PROJECT STRUCTURAL ENGINEER OF RECORD.
 - NO MODIFICATION THAT AFFECTS THE STRENGTH OF A STEEL POST OR STEEL BEAM SHALL BE MADE WITHOUT THE APPROVAL OF THE PROJECT STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL CONCRETE:

- ALL CONCRETE SHALL BE CLASS "AA", F'C = 3,500 PSI UNLESS NOTED OTHERWISE. ALL CONCRETE SHALL CONFROM TO COP STD SPEC SEC 725.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
- ALL BENDS AND HOOKS SHALL MEET THE REQUIREMENTS OF ACI 318-19 ARTICLE 25.3. ALL BEND DIMENSIONS FOR REINFORCING STEEL SHALL BE TO THE CENTER OF BARS UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT SHALL HAVE 2 INCHES CLEAR COVER, UNLESS NOTED OTHERWISE.
- CHAMFER ALL EXPOSED CORNERS 3/4", UNLESS NOTED OTHERWISE. SEE CHAMFER DETAILS THIS SHEET

CANOPY PERFORATED STEEL PANEL

- PERFORATED STEEL PANELS SHALL BE 11 GAUGE THICK WITH 1/2" MINIMUM SOLID BORDER. PERFORATED STEEL PANELS SHALL HAVE 40% OPENINGS WITH ROUND STAGGERED HOLES OF 3/8" DIAMETER SPACED AT 3/8".
- PERFORATED STEEL PANELS ARE SUBJECTED TO CHANGE PER THE ARTIST DESIGN. THE ARTIST DESIGN SHALL MAINTAIN THE MINIMUM 1/2" BORDER AND OPENING BETWEEN 40% TO 50%.
- THE ARTIST DESIGN CONCEPT SHALL BE SUBMITTED TO THE ENGINEER FOR STRUCTURAL REVIEW AND APPROVAL.

WELDING

- ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AWS STRUCTURAL WELDING CODE.

STRUCTURAL STEEL

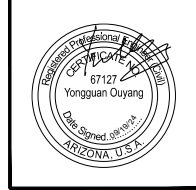
- ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION: RECTANGULAR HOLLOW STRUCTURAL SECTION (HSS): ASTM A500 GRADE C. FY = 50 KSI
 STANDARD PIPE: ASTM A53 GRADE B. FY = 35 KSI
 FLAT BAR (RIM PLATE) AND PERFORATED STEEL PLATE: ASTM A36. FY = 36 KSI
 ANCHOR BOLTS: F1554 GRADE 36.
- CARRIAGE BOLTS SHALL BE 1/2" DIAMETER GRADE 8 HIGH STRENGTH STEEL BOLTS WITH ZINC PLATING. THE MINIMUM TENSILE STRENGTH SHALL BE 150 KSI.

POWDER COATING

- ALL STEEL MEMBERS SHALL RECEIVE AN INDUSTRIAL BLAST PRIOR TO POWDER COATING.
- ALL STEEL SURFACES SHALL BE POWDER COATED WITH A TWO PART POWDER COAT. POWDER COAT USED SHALL BE UV RESISTANT. POWDER COATING SHALL BE APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS.
- POWDER COAT BASE PRIMER SHALL BE IRON PHOSPHATING OR ZINC PHOSPHATING. BASE COAT THICKNESS SHALL BE A MINIMUM OF 2.5mils THICK.
- POWDER COAT TOP COAT SHALL BE A POLYESTER BASED UV-RESISTANT POWDER, APPLIED PER MANUFACTURER'S RECOMMENDATION.
- POWDER COATING SHALL MEET THE REQUIREMENTS OF OUTDOOR WEATHERING PER AAMA 2604.
- CONTRACTOR SHALL SUPPLY A ONE FOOT BY ONE FOOT SAMPLE TO THE PUBLIC TRANSIT DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO STARTING POWDER COATING.
- STRUCTURE COLOR SCHEME BY ARTIST PROVIDED AS A SEPARATE DOCUMENT.
- WHERE WELDED MEMBER CONNECTIONS CREATE A V GROOVE AND POWDER COATING CANNOT BE APPLIED DUE TO FARADAY EFFECT, PLACE A CONTINUOUS BEAD OF EXTERIOR CLEAR SILICONE IN GROOVE.

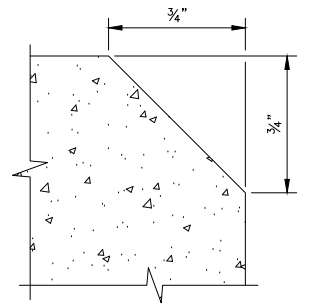
DRAWINGS:

- DO NOT SCALE DRAWING.
- WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DETAILS NOTED "TYP." APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.
- DIMENSIONS FOR RADIUS REFER TO OUTSIDE RADIUS UNLESS NOTED OTHERWISE.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	26	42	

TYLin
 CONSULTING ENGINEER
 DES: BR DR: TF CK: AO DATE: 08/24



CHAMFER ALL EXPOSED CORNERS UNLESS OTHERWISE NOTED. THIS NOTE IS APPLICABLE TO ALL SHEETS PERTAINING TO THE STRUCTURE.

CONCRETE DETAIL
NO SCALE

STRUCTURAL SHEET INDEX

SHEET NO	TITLE
26	STRUCTURE NOTES
27	CACTUS PLAN & ELEVATION
28	CACTUS 8' CANOPY PLAN & ELEVATION
29	MULTI PANEL CACTUS PLAN & ELEVATION
30	BUTTERFLY ELEVATION
31	BUTTERFLY CANOPY DETAILS
32	CACTUS FOUNDATION DETAILS
33	MULTI PANEL CACTUS FOUNDATION DETAILS
34	BUTTERFLY FOUNDATION DETAILS
35	INSTALLATION SEQUENCE
36	STRUCTURE DETAILS
37	MULTI PANEL CACTUS PANEL DETAILS
38	CACTUS & BUTTERFLY PANEL DETAILS



CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ELEVATIONS FOR ALL UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS.
 "PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

STRUCTURE NOTES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

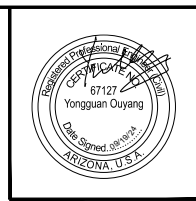
PHOENIX SHADE STRUCTURES

ST85170116-1

DR: TF	DES: BR	CK: AO	SHEET NO:	TOTAL SHEETS:	AS BUILT:
DATE: 09/24	DATE: 09/24	DATE: 09/24	26	42	*
SCALE: N.T.S.					

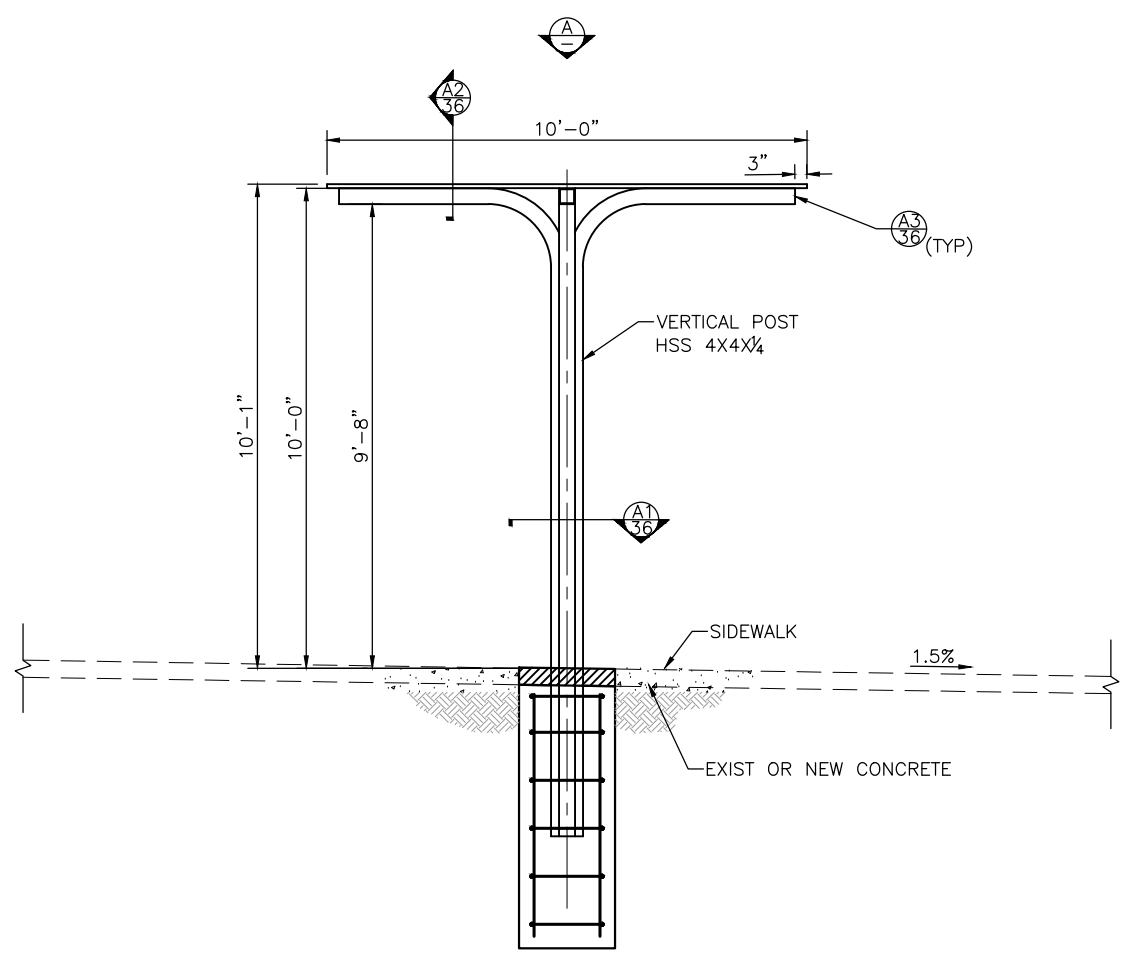
4/19/2024 11:26:23 AM TYLin-Hair-Scal-21b.txd Brandon Rudejph TYLin Hair-Scal-21b.txd

REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE
REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE
REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE

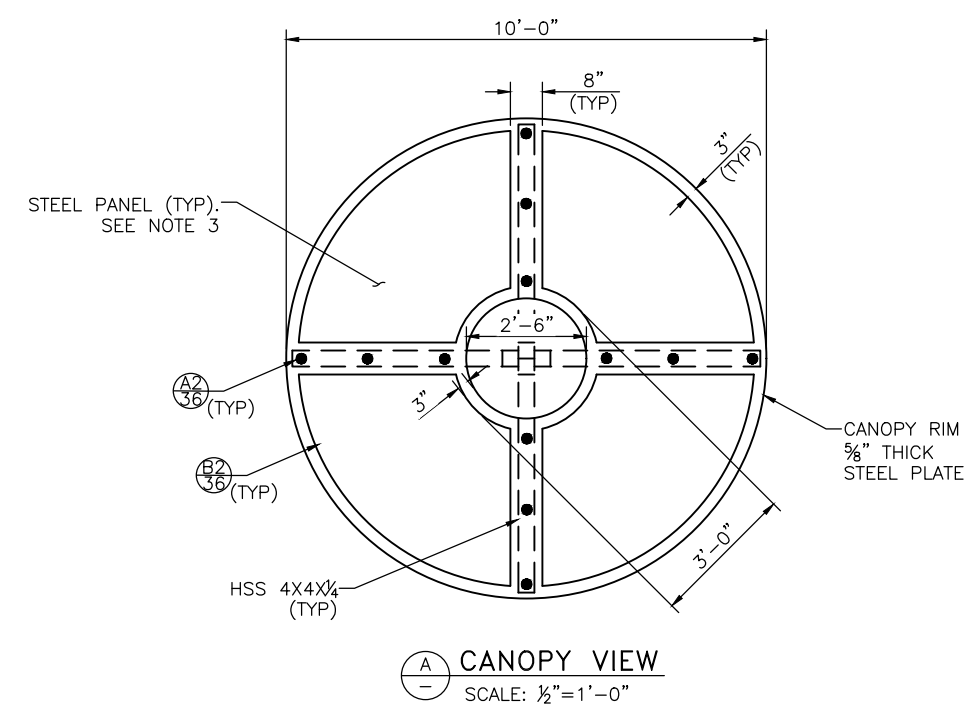


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	27	42	
DES: BR			DR: TF	CK: AO	DATE: 08/24

TYLin
 CONSULTING ENGINEER
 TYLin
 CONSULTING ENGINEER



ELEVATION VIEW
 SCALE: 1/2" = 1'-0"



CANOPY VIEW
 SCALE: 1/2" = 1'-0"

LEGEND
 ● 1/2" Ø CARRIAGE BOLTS, PLACE AS SHOWN.

- NOTES:
1. SEE SHEET 32 FOR FOUNDATION ALTERNATIVE DETAILS
 2. SEE CANOPY RIM SPLICE DETAIL A4 ON SHEET 36.
 3. PANEL DESIGN NOT SHOWN FOR CLARITY. SEE SHEET 38 FOR PANEL DETAILS.



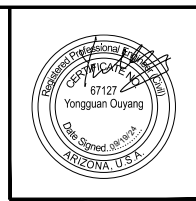
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CACTUS PLAN & ELEVATION
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT
 PHOENIX SHADE STRUCTURES
CACTUS
 ST85170116-1

DR: TF	DES: BR	CK: AO	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	27	42	*
SCALE: SEE PLAN					

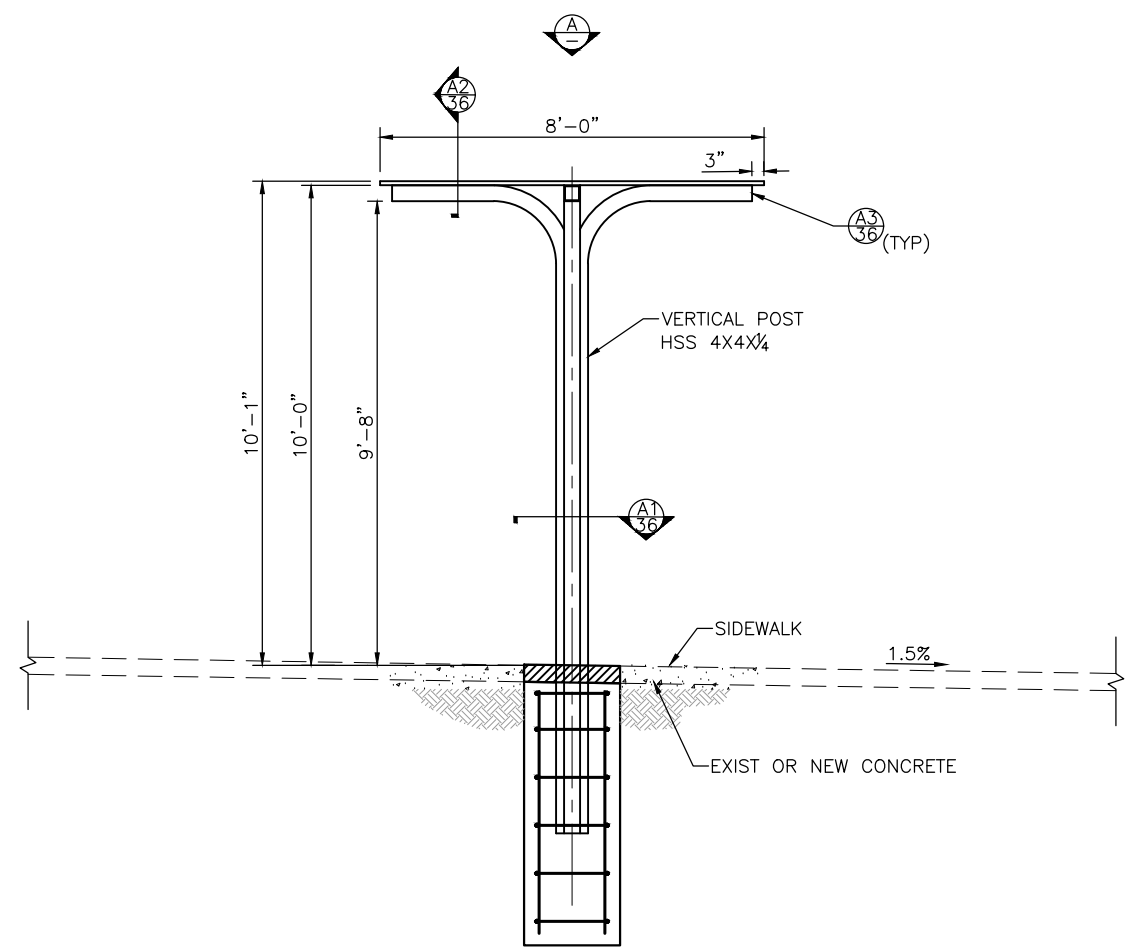
T:\Tempe\Projects\3010.0100761.004\600_P56N\Bridge\04_Sheets\85170116-1_Elevation-CB.dwg
 4/19/2024 11:26:39 AM
 Brandon Rudolph
 TY Lin Scale 2/16

REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE
REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE
REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	28	42	
DES: BR		DR: TF	CK: AO	DATE: 08/24	

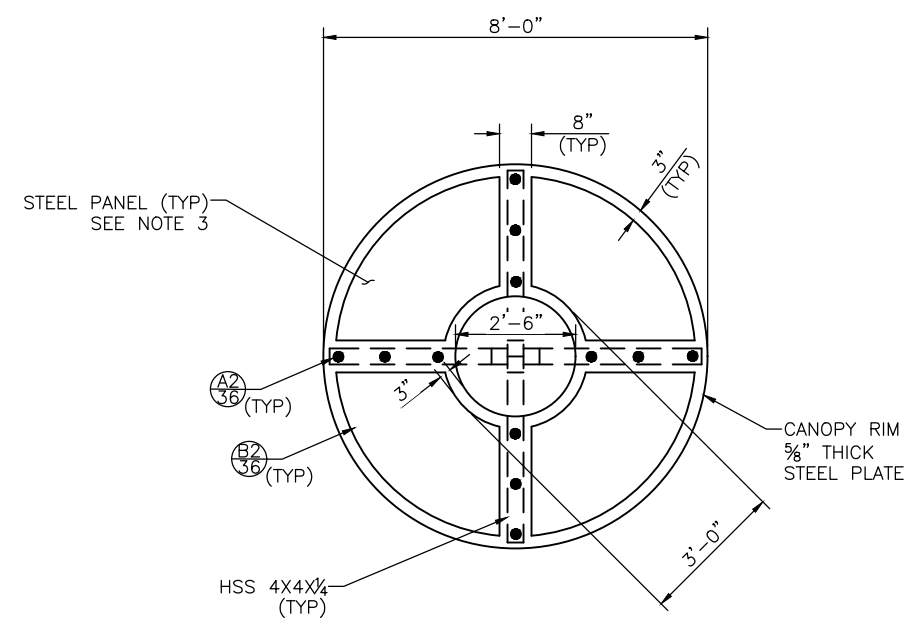
TYLin
CONSULTING ENGINEER



ELEVATION VIEW
SCALE: 1/2" = 1'-0"

- NOTES:
1. SEE SHEET 32 FOR FOUNDATION ALTERNATIVE DETAILS
 2. SEE CANOPY RIM SPLICE DETAIL A4 ON SHEET 36.
 3. PANEL DESIGN NOT SHOWN FOR CLARITY. SEE SHEET 38 FOR PANEL DETAILS.

LEGEND
● 1/2" Ø CARRIAGE BOLTS, PLACE AS SHOWN.



CANOPY VIEW
SCALE: 1/2" = 1'-0"

Call at least two full working days before you begin excavation.

ARIZONA 811
Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

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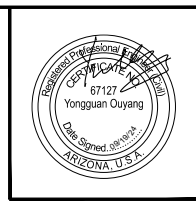
CACTUS 8' CANOPY PLAN & ELEVATION
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

**PHOENIX SHADE STRUCTURES
CACTUS 8' CANOPY
ST85170116-1**

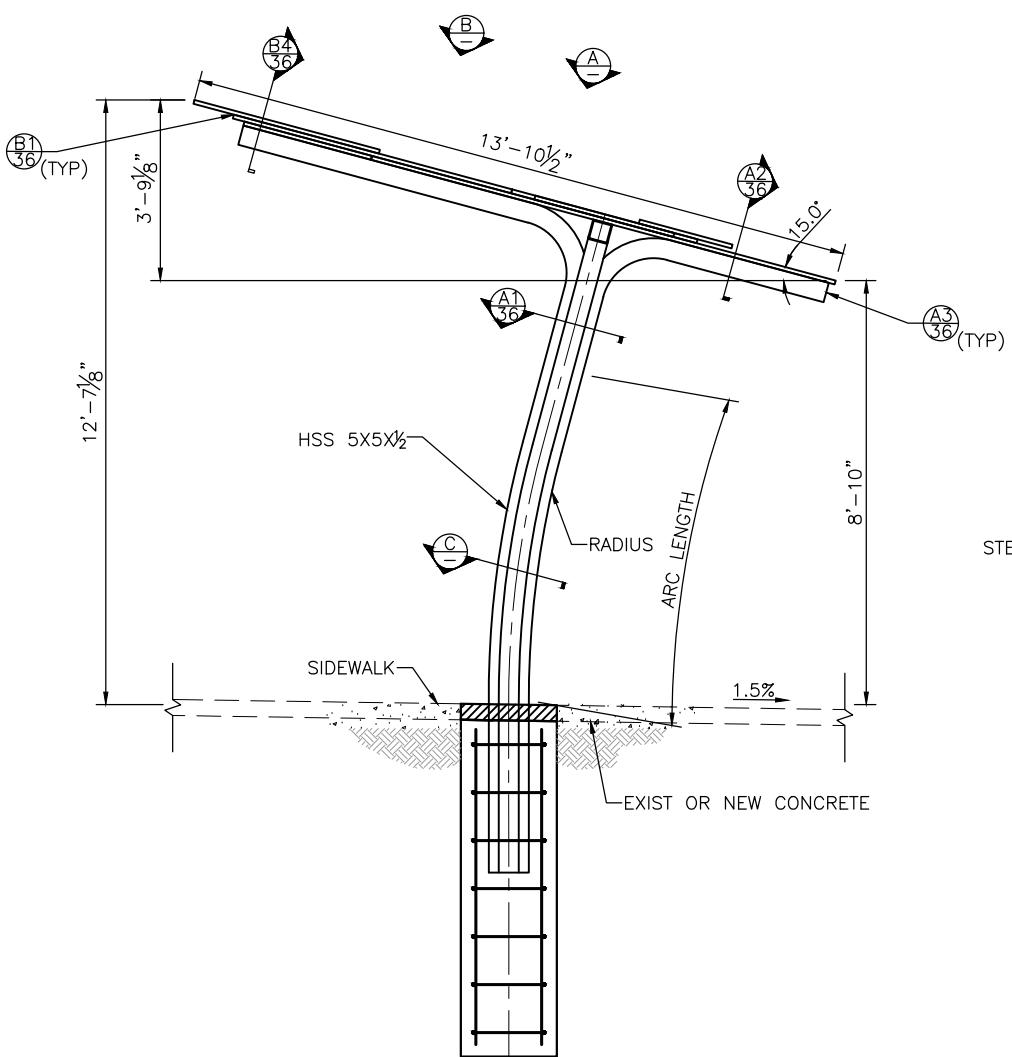
DR: TF	DES: BR	CK: AO	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	28	42	*
SCALE: SEE PLAN					

T:\Temp\Projects\3010.0100761.004\600_D56N\Bridge\04_Sheets\ST85170116-1_Elevation-CB-8ft.dwg 4/19/2024 11:26:56 AM Brandon Rudolph

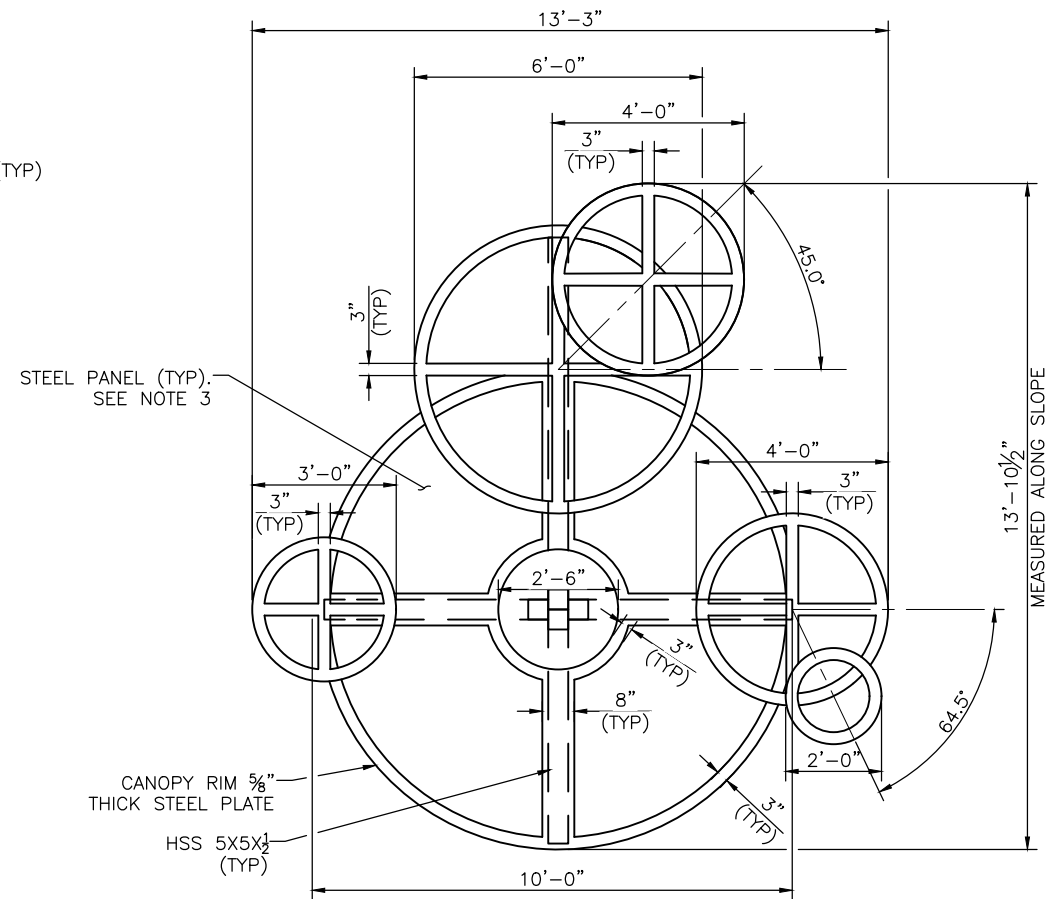
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO.				
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
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REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO.				



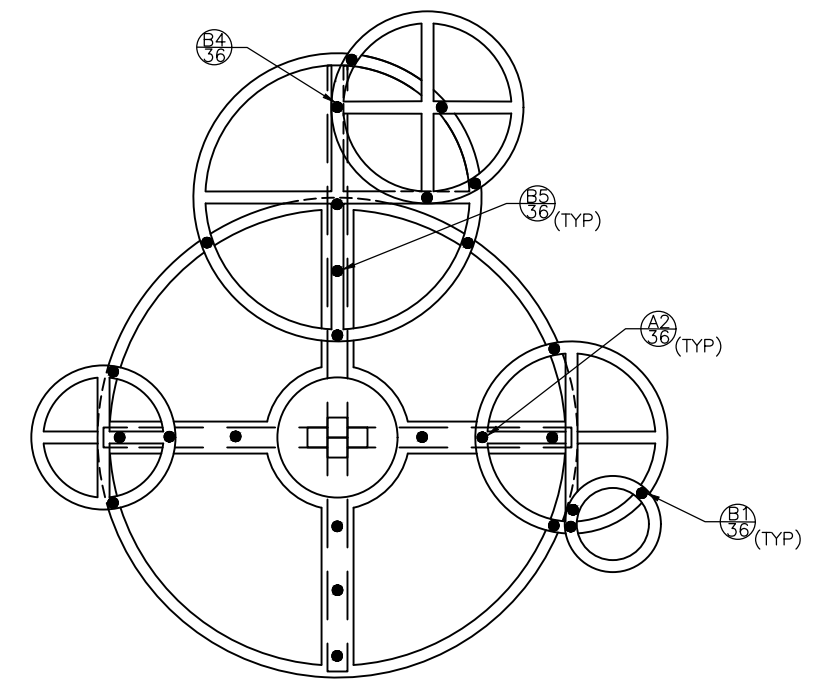
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	29	42	
TYLin			TYLin CONSULTING ENGINEER		
DES: BR	DR: TF	CK: AO	DATE: 08/24		



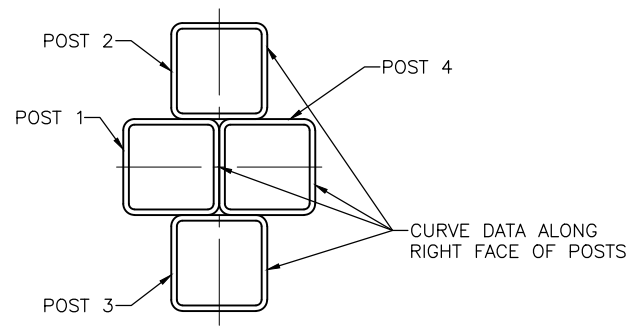
ELEVATION - SIDE
SCALE: 1/2" = 1'-0"



A CANOPY VIEW
SCALE: 1/2" = 1'-0"



B CANOPY BOLT LAYOUT
SCALE: 1/2" = 1'-0"



C SECTION
SCALE: N.T.S.

CURVE DATA		
POST	RADIUS	ARC LENGTH
1	26'-5 7/8"	6'-11 3/4"
2	26'-0 7/8"	6'-11 1/8"
3	26'-0 7/8"	6'-11 1/8"
4	26'-3 3/8"	6'-10 3/8"

- NOTES:
- SEE SHEET 33 FOR FOUNDATION DETAILS
 - SEE ROOF RIM SPLICE DETAIL A4 ON SHEET 36.
 - PANEL DESIGN NOT SHOWN FOR CLARITY. SEE SHEET 37 FOR PANEL DETAILS.



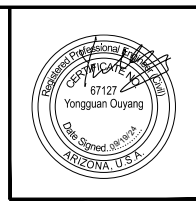
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MULTI PANEL CACTUS PLAN & ELEVATION
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
PHOENIX SHADE STRUCTURES
MULTI PANEL CACTUS
ST85170116-1

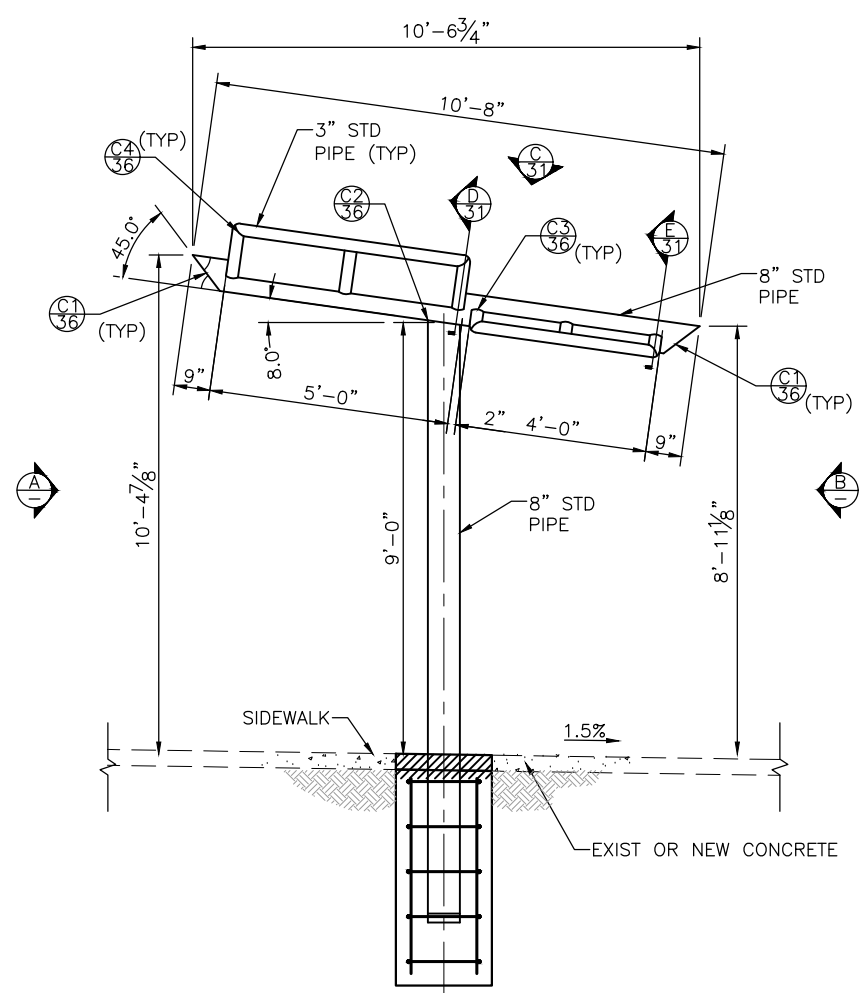
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DATE: 09/24	DATE: 09/24	DATE: 09/24	29	42	*
SCALE: SEE PLAN					

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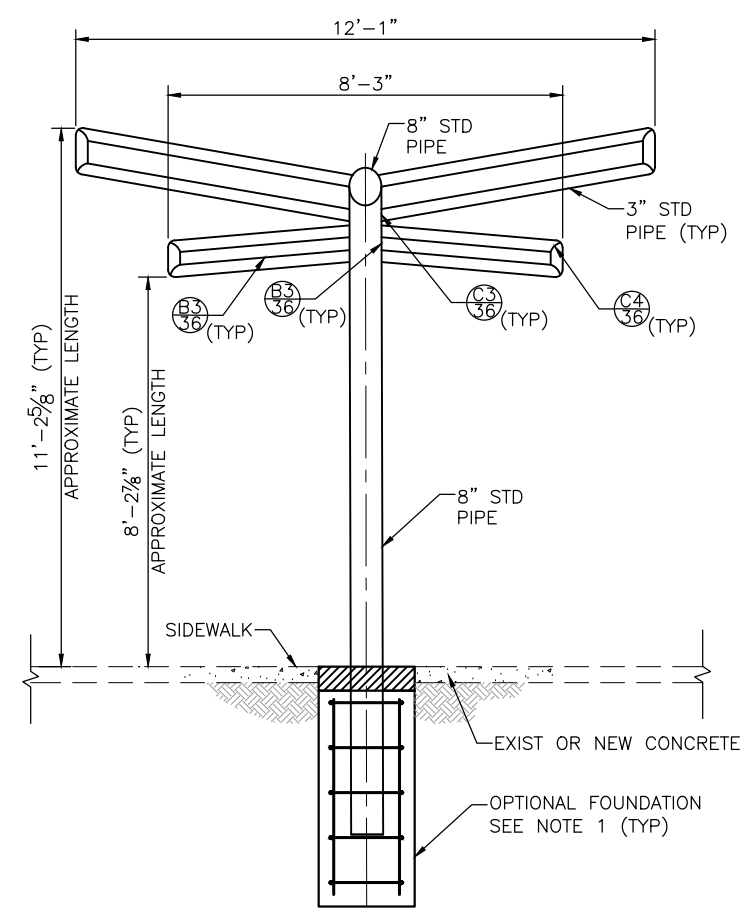
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REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHKD BY	DATE



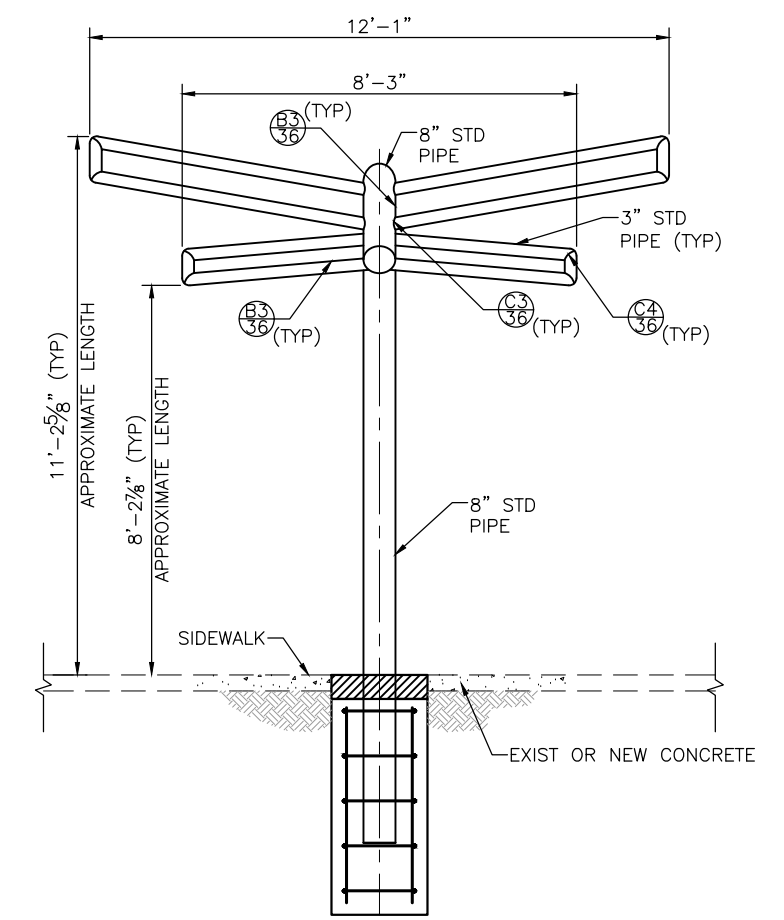
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	30	42	
DES: BR			DR: TF	CK: AO	DATE: 08/24
TYLin			TYLIN CONSULTING ENGINEER		



ELEVATION - SIDE
SCALE: 1/2"=1'-0"



ELEVATION - FRONT VIEW
SCALE: 1/2"=1'-0"



ELEVATION - BACK VIEW
SCALE: 1/2"=1'-0"

- NOTES:
1. SEE SHEET 34 FOR FOUNDATION ALTERNATIVE DETAILS
 2. PANEL DESIGN NOT SHOWN FOR CLARITY. SEE SHEET 38 FOR PANEL DETAILS.

Call at least two full working days before you begin excavation.

ARIZONA 811
Arizona Blue Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

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BUTTERFLY ELEVATION

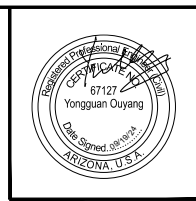
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

**PHOENIX SHADE STRUCTURES
BUTTERFLY
ST85170116-1**

DR: TF	DES: BR	CK: AO	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	30	42	*
SCALE: SEE PLAN					

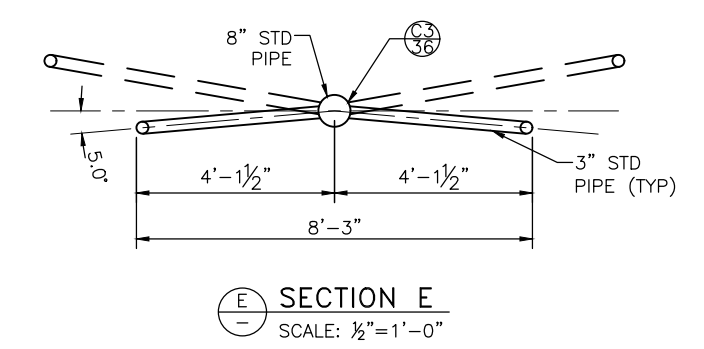
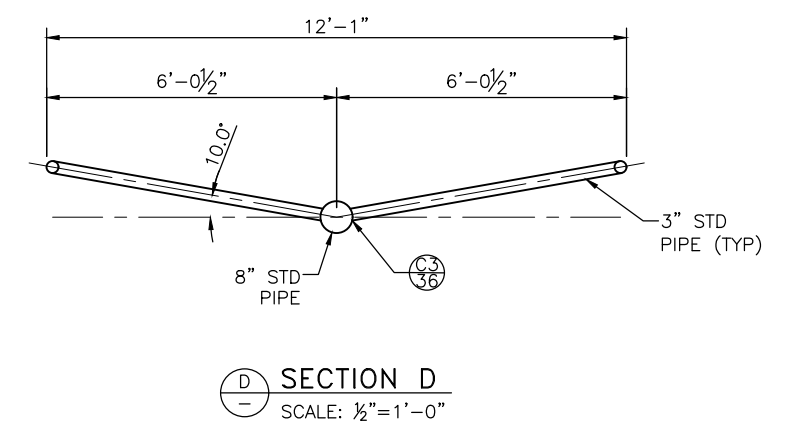
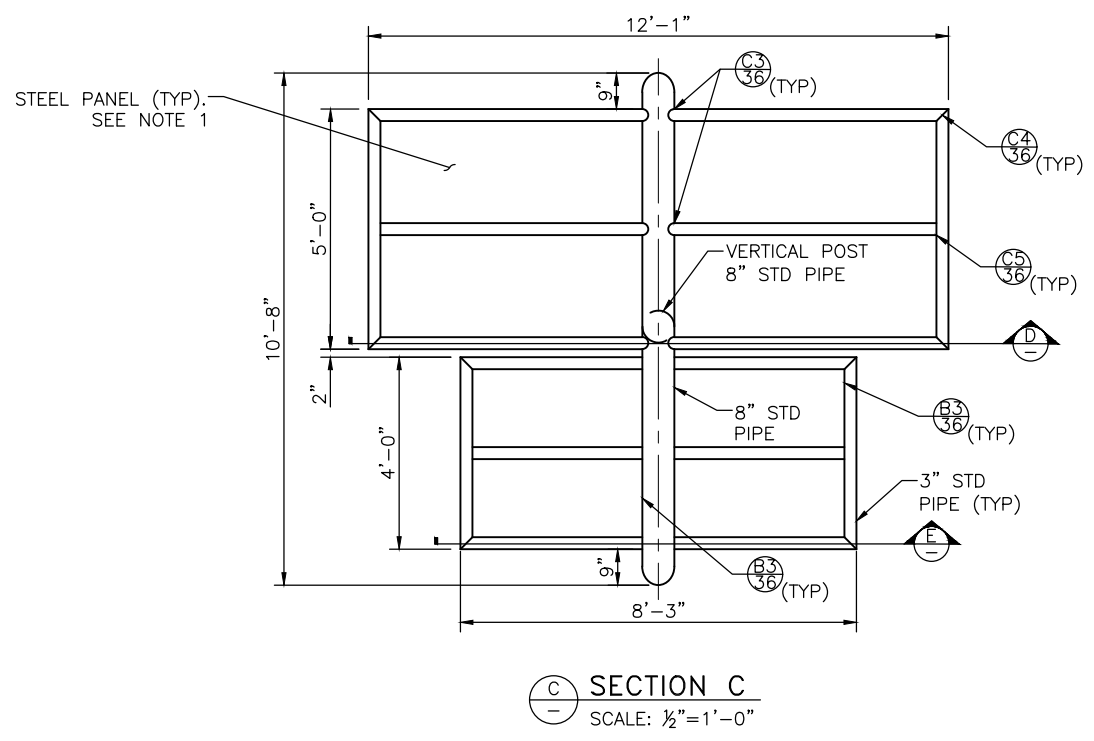
4/19/2024 11:24:35 AM Brandon Rudolph T:\Temp\Projects\3010.0100761.004\600_LDS6N\Bridge\04_Sheets\85170116-1_Elevation-Butterfly.dwg

REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE
REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE
REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	31	42	
DES: BR		DR: TF	CK: AO	DATE: 08/24	

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CONSULTING ENGINEER



NOTE:
1. PANEL DESIGN NOT SHOWN FOR CLARITY. SEE SHEET 38 FOR PANEL DETAILS.

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BUTTERFLY CANOPY DETAILS


CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

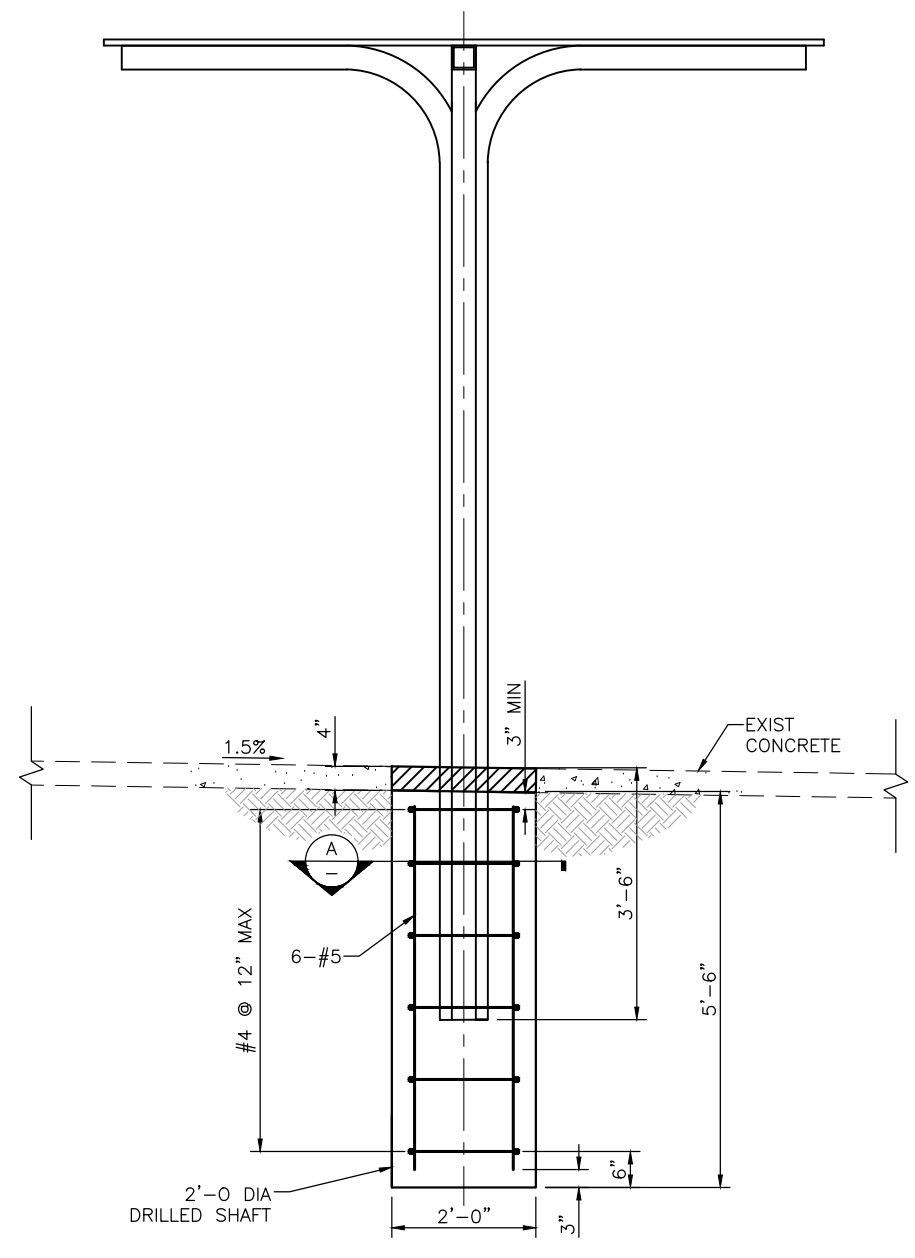
PHOENIX SHADE STRUCTURES
BUTTERFLY
ST85170116-1

DR: TF	DES: BR	CK: AO	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	31	42	*
SCALE: SEE PLAN					

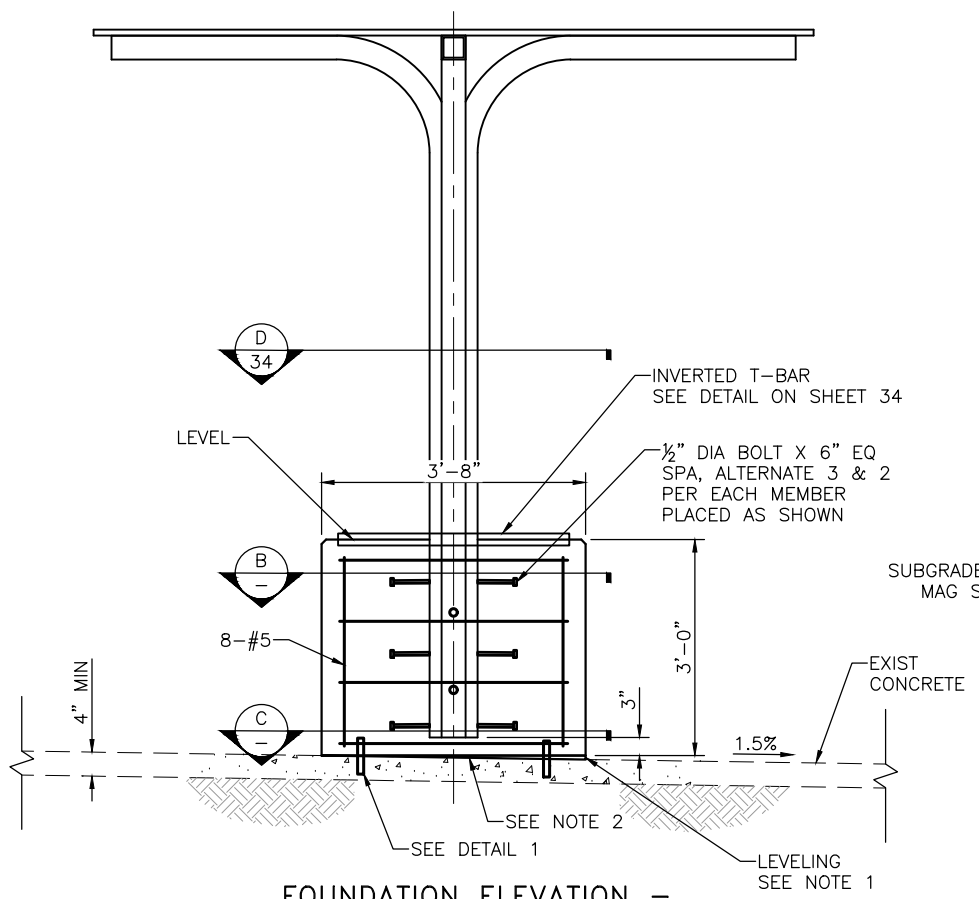
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REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE

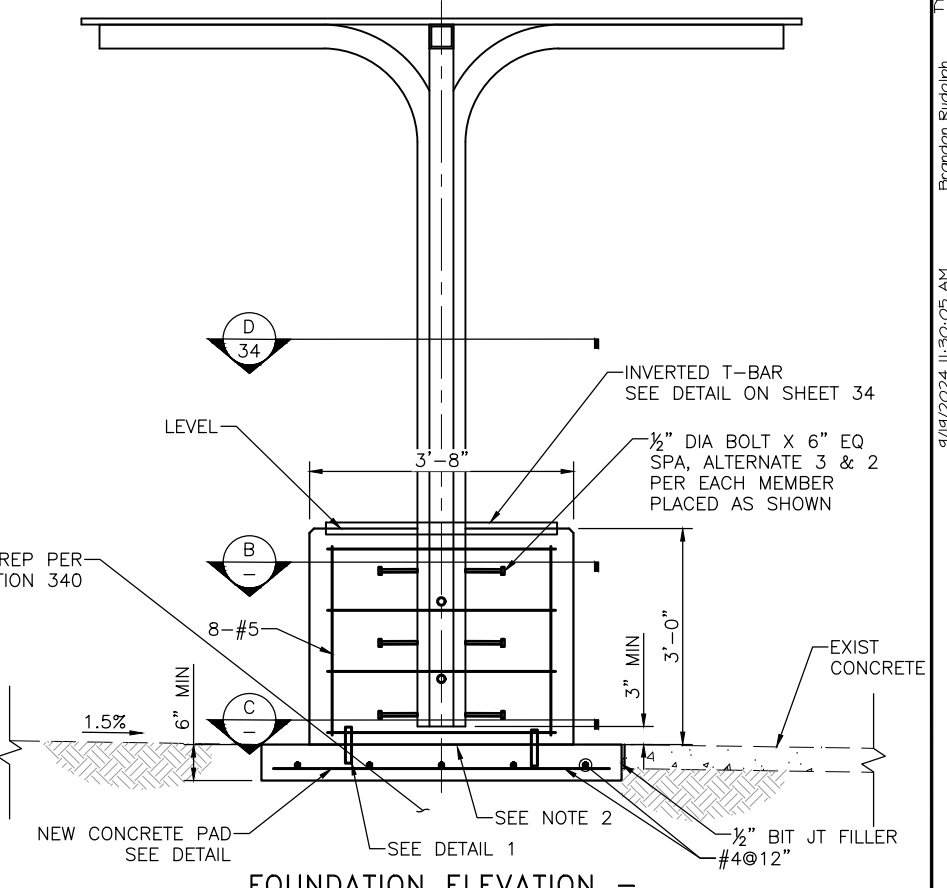
	F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
	9	ARIZ.	ST85170116-1	32	42	
TYLin CONSULTING ENGINEER			TYLIN CONSULTING ENGINEER DES: BR DR: TF CK: AO DATE: 08/24			



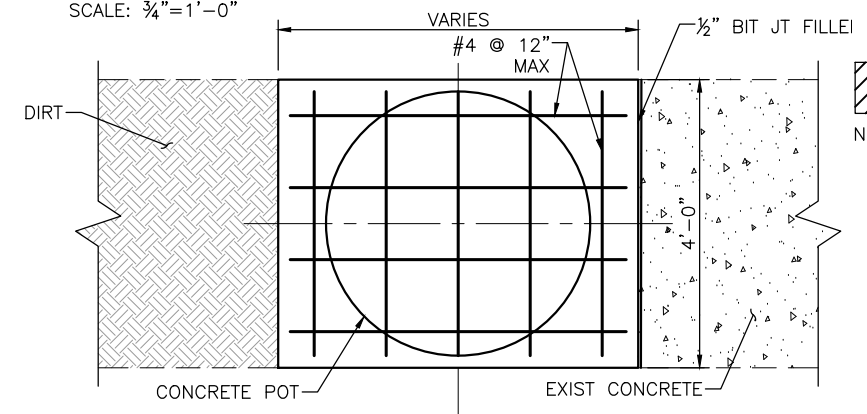
FOUNDATION ELEVATION - DRILLED SHAFT
SCALE: 3/4"=1'-0"



FOUNDATION ELEVATION - CONCRETE POT ON EXISTING CONCRETE PAD
SCALE: 3/4"=1'-0"



FOUNDATION ELEVATION - CONCRETE POT ON NEW CONCRETE PAD
SCALE: 3/4"=1'-0"

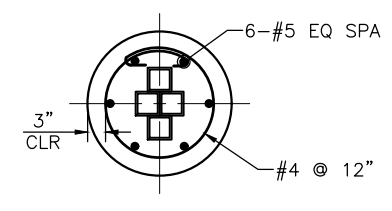


NEW CONCRETE PAD DETAIL

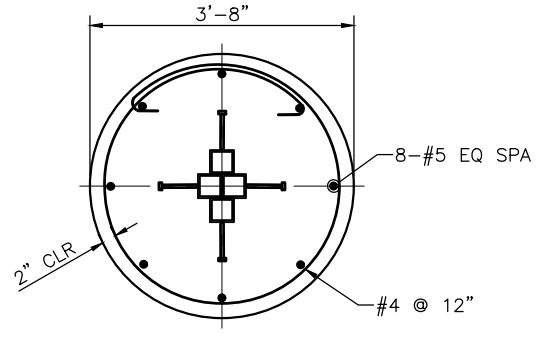
NOTE:
 1. EXISTING CONCRETE SHALL BE GROUT WITH WITH DURALTOP GEL OR APPROVED EQUAL TO PROVIDE A LEVEL CONTACT SURFACE. GRINDING OR MILLING MAY BE REQUIRED PER MANUFACTURER'S REQUIREMENT.
 2. THE CONTACT SURFACE OF THE CONCRETE PAD SHALL BE ROUGHENED TO A DEPTH APPROXIMATELY 1/4 INCH

Call at least two full working days before you begin excavation.

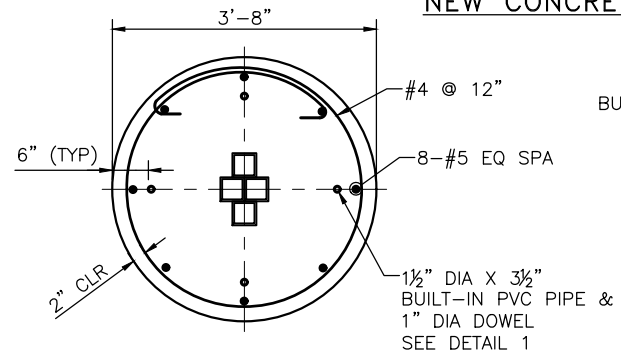
ARIZONA 811
 Arizona Blue Stake, Inc.
 Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
 In Maricopa County: (602) 263-1100



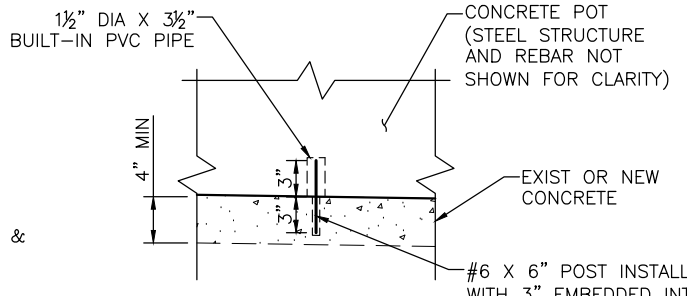
SECTION A
SCALE: 3/4"=1'-0"



SECTION B
SCALE: 3/4"=1'-0"



SECTION C
SCALE: 3/4"=1'-0"



DETAIL 1

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CACTUS FOUNDATION DETAILS

CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

**PHOENIX SHADE STRUCTURES
 CACTUS
 ST85170116-1**

DR: TF	DES: BR	CK: AO	SHEET NO:	TOTAL SHEETS:	AS BUILT:
DATE: 09/24	DATE: 09/24	DATE: 09/24	32	42	*
SCALE: SEE PLAN					

4/19/2024 11:30:05 AM Brandon Rudolph T:\Temp\Projects\30101010761004\600_LPS6N\Bridges\04_Sheets\85170116-1_L_FoundationDetails-CB.dwg

NO.	DESCRIPTION	REV BY	CHK BY	DATE

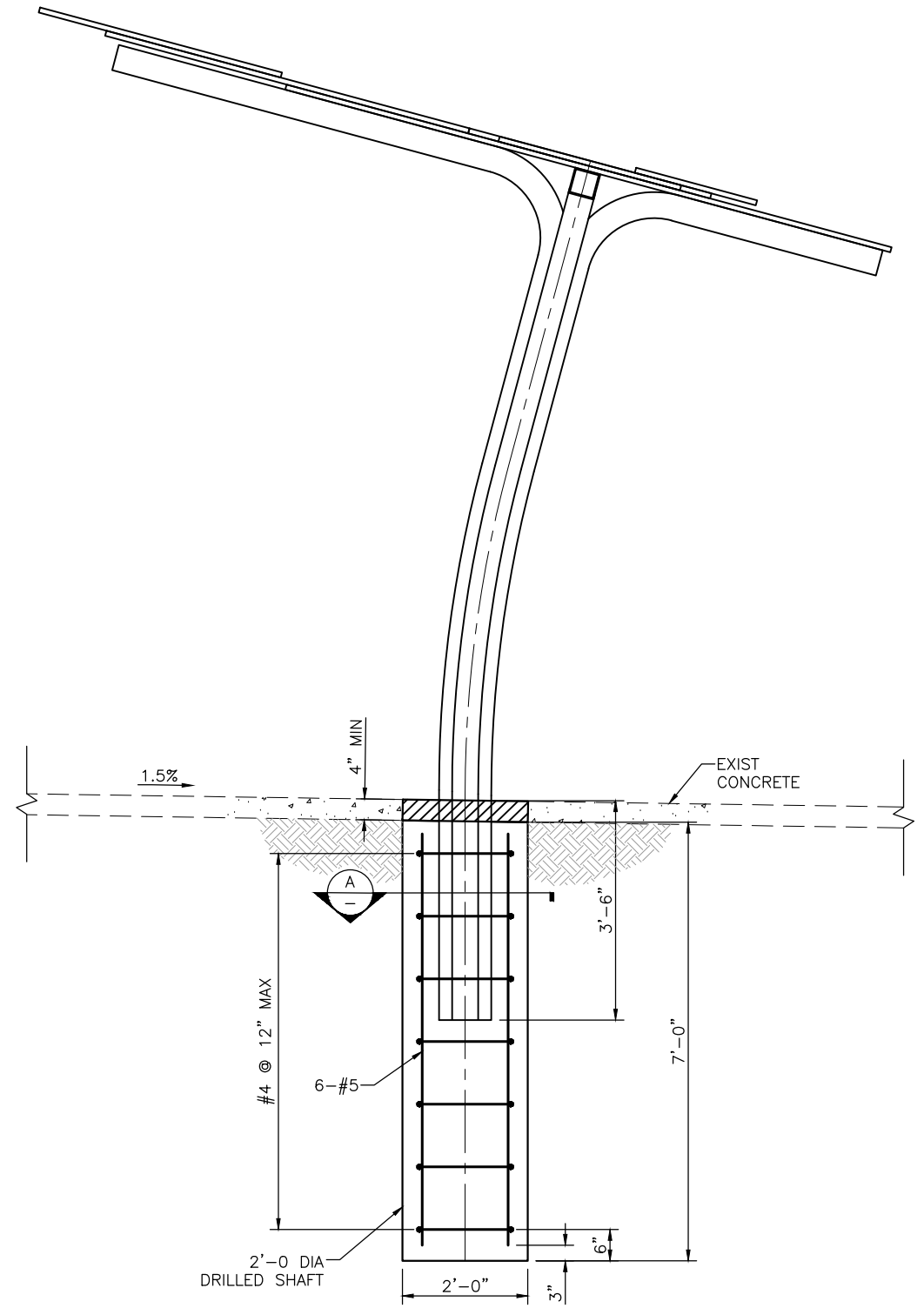


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	33	42	

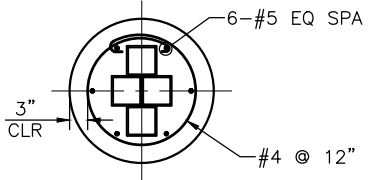
TYLin
TYLIN CONSULTING ENGINEER

DES: BR	DR: TF	CK: AO	DATE: 08/24
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SECONDARY CONCRETE POUR AFTER DRILLED SHAFT IS INSTALLED



FOUNDATION ELEVATION - DRILLED SHAFT
SCALE: 3/4" = 1'-0"



SECTION A-A
SCALE: 3/4" = 1'-0"

Call at least two full working days before you begin excavation.

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MULTI PANEL CACTUS FOUNDATION DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

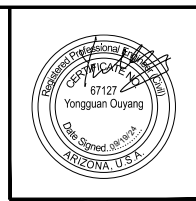
PHOENIX SHADE STRUCTURES
MULTI PANEL CACTUS
ST85170116-1

DR: TF	DES: BR	CK: AO	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	33	42	*

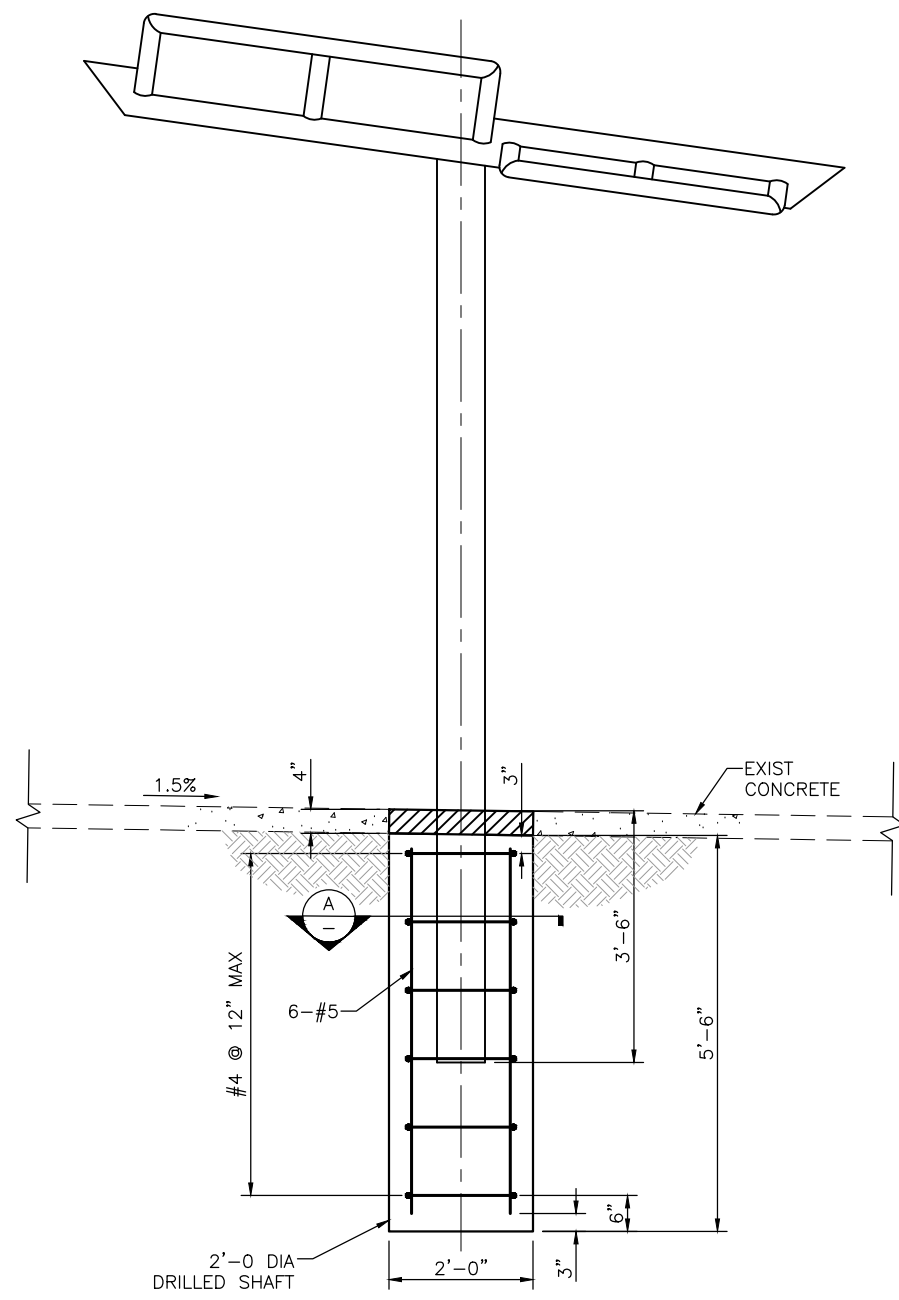
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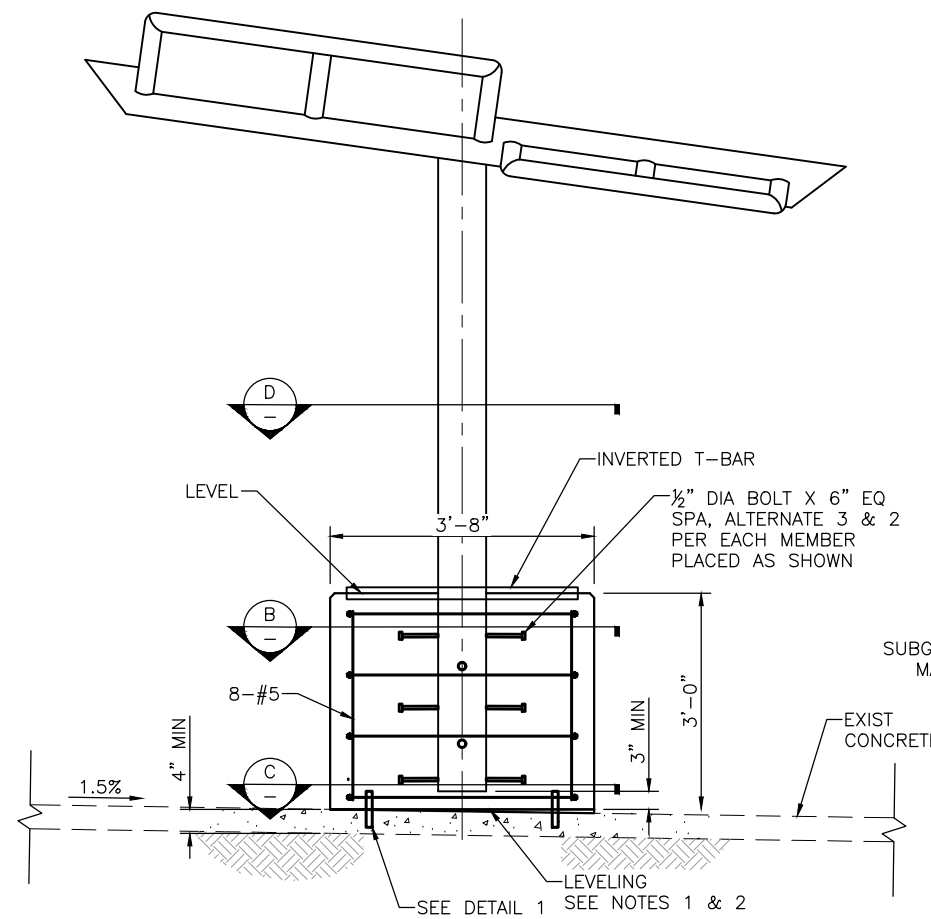
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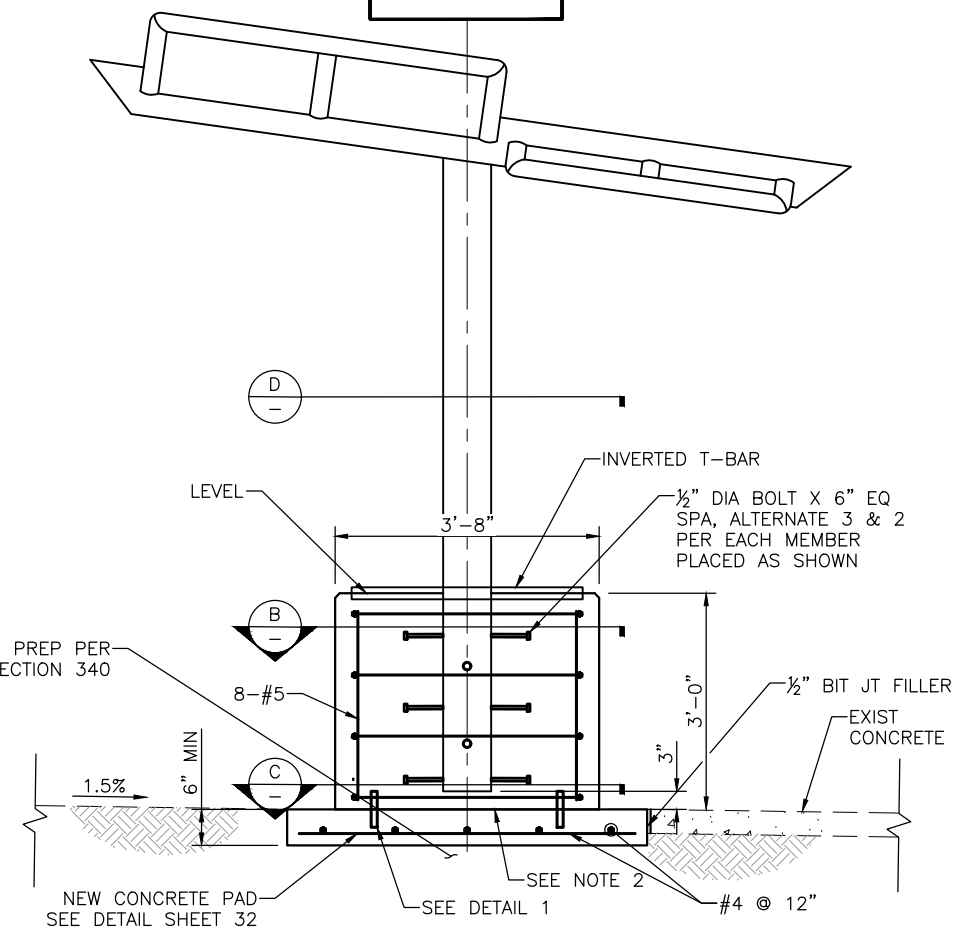
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
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TYLin			TYLin CONSULTING ENGINEER		
DES: BR	DR: TF	CK: AO	DATE: 08/24		



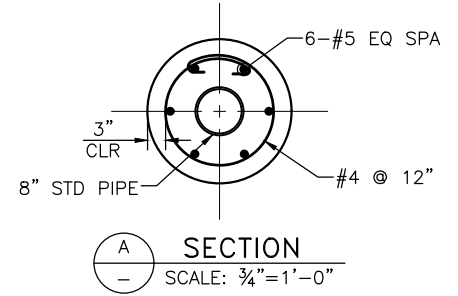
FOUNDATION ELEVATION - DRILLED SHAFT
SCALE: 3/4" = 1'-0"



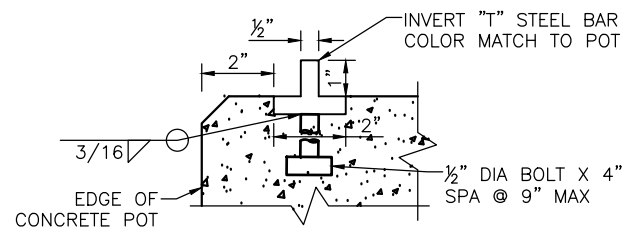
FOUNDATION ELEVATION - CONCRETE POT ON EXISTING CONCRETE PAD
SCALE: 3/4" = 1'-0"



FOUNDATION ELEVATION - CONCRETE POT ON NEW CONCRETE PAD
SCALE: 3/4" = 1'-0"

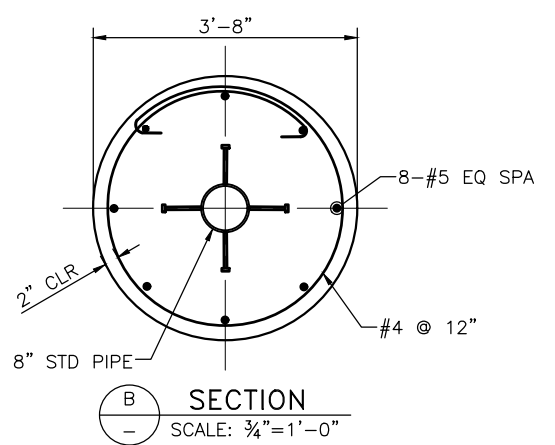


SECTION A
SCALE: 3/4" = 1'-0"

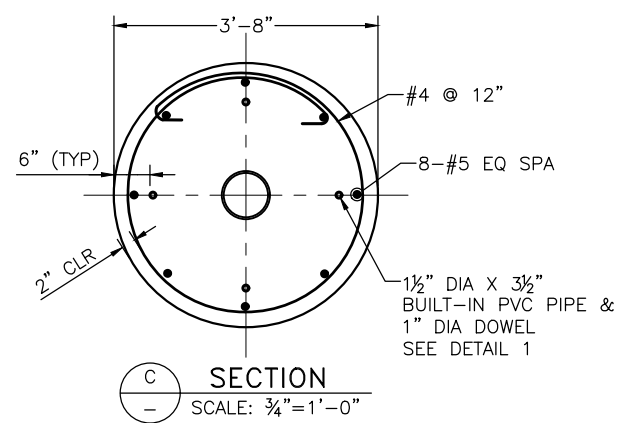


INVERTED T-BAR

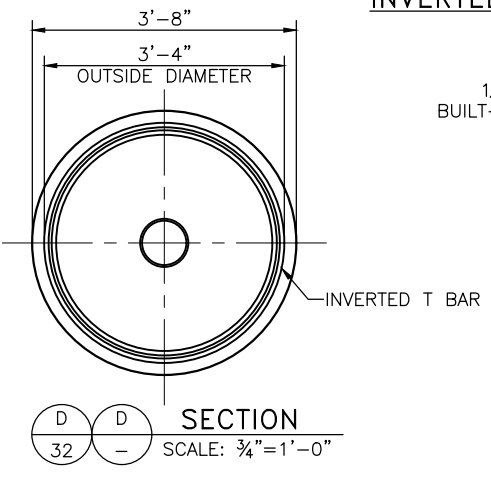
- NOTE:**
- EXISTING CONCRETE SHALL BE GROUT WITH DURALTOP GEL OR APPROVED EQUAL TO PROVIDE A LEVEL CONTACT SURFACE. GRINDING OR MILLING MAY BE NEEDED PER MANUFACTURER'S REQUIREMENT.
 - THE CONTACT SURFACE OF THE CONCRETE PAD SHALL BE ROUGHENED TO A DEPTH APPROXIMATELY 1/4 INCH.



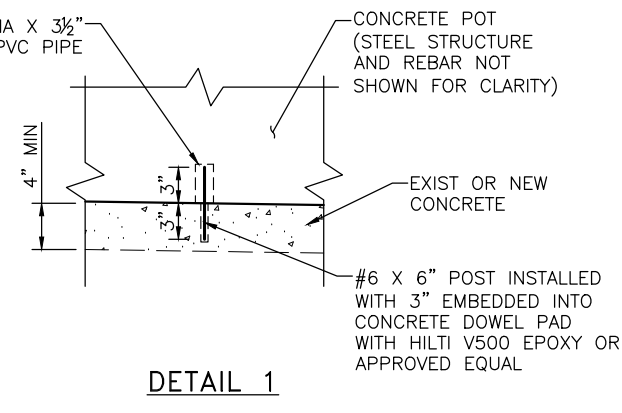
SECTION B
SCALE: 3/4" = 1'-0"



SECTION C
SCALE: 3/4" = 1'-0"



SECTION D
SCALE: 3/4" = 1'-0"



DETAIL 1

Call at least two full working days before you begin excavation.

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BUTTERFLY FOUNDATION DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

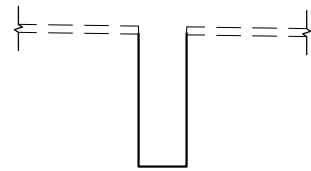
PHOENIX SHADE STRUCTURES
BUTTERFLY
ST85170116-1

DR: TF	DES: BR	CK: AO	SHEET NO:	TOTAL SHEETS:	AS BUILT:
DATE: 09/24	DATE: 09/24	DATE: 09/24	34	42	*
SCALE: SEE PLAN					

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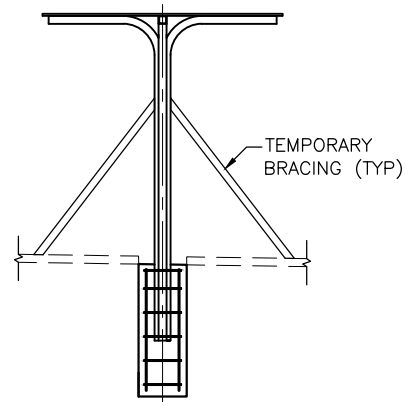
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REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE
REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE

DRILLED SHAFT INSTALLATION SEQUENCE



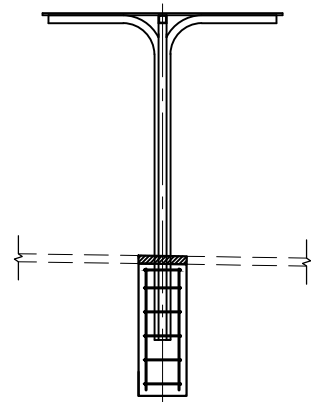
STEP 1

1. DRILL HOLE



STEP 2

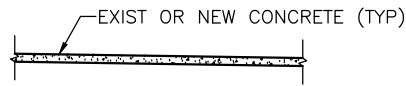
1. PLACE SHAFT REINFORCEMENT
2. PUT STEEL STRUCTURE IN PLACE WITH TEMPORARY BRACING
3. POUR DRILLED SHAFT CONCRETE



STEP 3

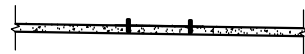
1. REMOVE TEMPORARY BRACING AFTER CONCRETE REACHES 70% OF TENSILE STRENGTH
2. POUR SECONDARY CONCRETE

CONCRETE POT INSTALLATION SEQUENCE



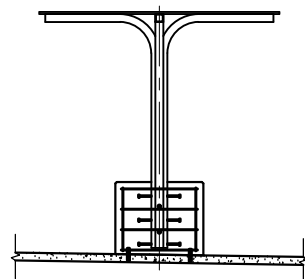
STEP 1

1. PREPARE THE EXISTING OR NEW CONCRETE PAD AS NEEDED. SEE SHEET 32 FOR DETAILS.
2. FABRICATE THE STEEL STRUCTURE AND CONCRETE POT IN THE SHOP.



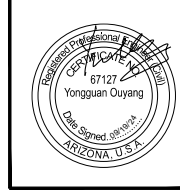
STEP 2

1. DRILL AND EPOXY DOWEL BARS PER THE AS-BUILT DIMENSION OF THE SLEEVE.



STEP 3

1. ERECT AND TRANSPORT THE STRUCTURE TO THE FIELD. PLACE STRUCTURE OVER DOWELS.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	35	42	
DES: BR			DR: TF	CK: AO	DATE: 08/24

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NOTES

1. CONTRACTOR SHALL DETERMINE TEMPORARY BRACING METHOD.
2. TEMPORARY BRACING SHALL HOLD THE STEEL STRUCTURE VERTICAL AND PLUMB WHILE CONCRETE HARDENS.
3. CACTUS BLOSSOM SHOWN, OTHER STRUCTURES SIMILAR.
4. CONTRACTOR SHALL DETERMINE THE LIFTING METHOD AND TRANSPORTATION METHOD FOR THE STRUCTURE WITH CONCRETE POT INSTALLATION.
5. CONTRACTOR TO PROVIDE ACCEPTABLE ADA PATH AROUND TEMPORARY BRACING AND STRUCTURE ERECTION AND CONSTRUCTION.

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INSTALLATION SEQUENCE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

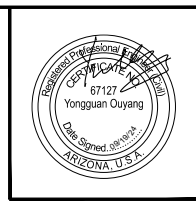
PHOENIX SHADE STRUCTURES

ST85170116-1

DR: TF	DES: BR	CK: AO	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	35	42	*
SCALE: SEE PLAN					

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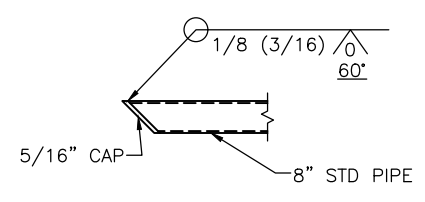
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NO.				
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NO.				



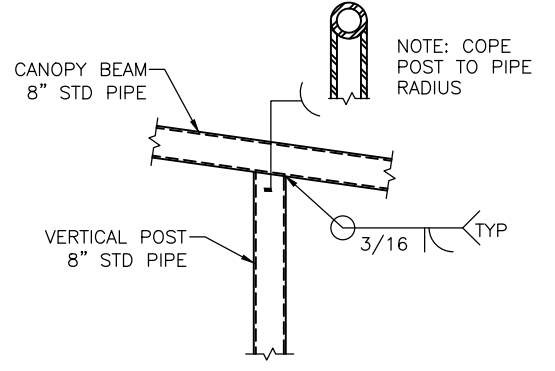
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TYLIN CONSULTING ENGINEER

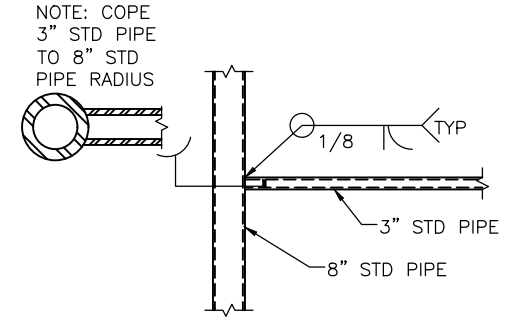
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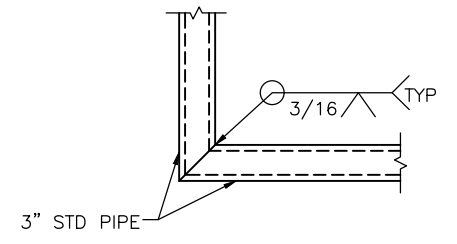
C1 8" STD PIPE END CAP DETAIL



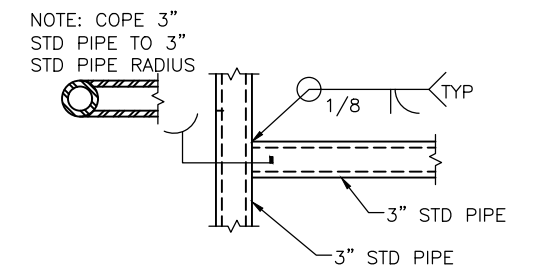
C2 8" STD PIPE TO 8" STD PIPE CONNECTION



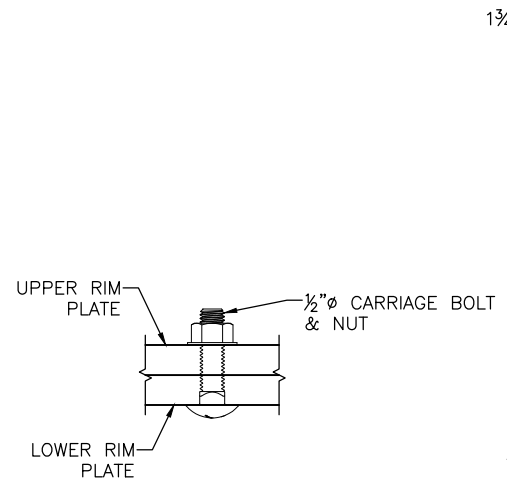
C3 3" STD PIPE TO 8" STD PIPE CONNECTION



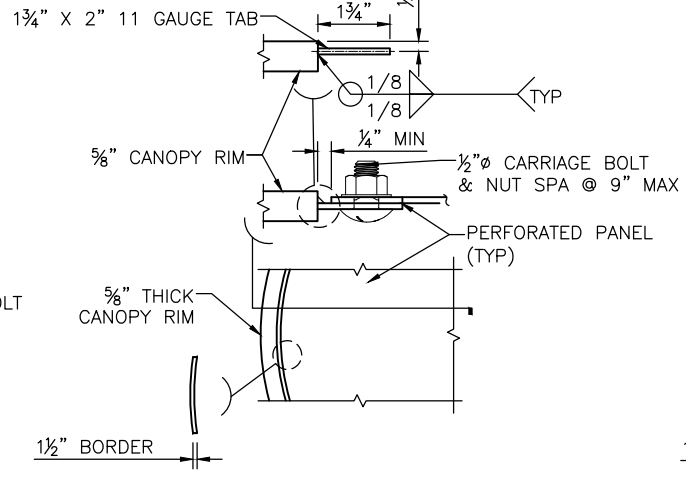
C4 3" STD PIPE TO 3" STD PIPE CANOPY CORNER CONNECTION



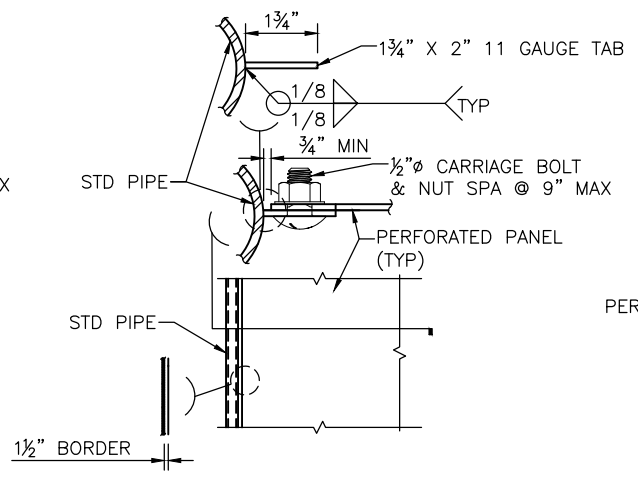
C5 3" STD PIPE TO 3" STD PIPE CONNECTION



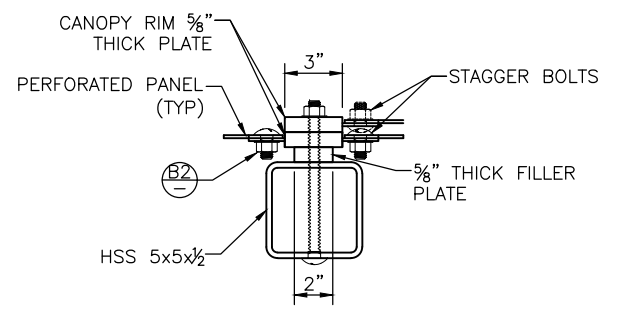
B1 RIM TO RIM CONNECTION 1



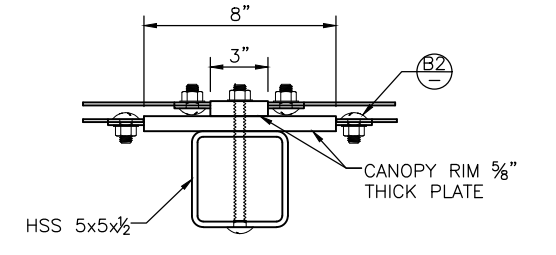
B2 FLAT BAR TO PERFORATED PANEL CONNECTION



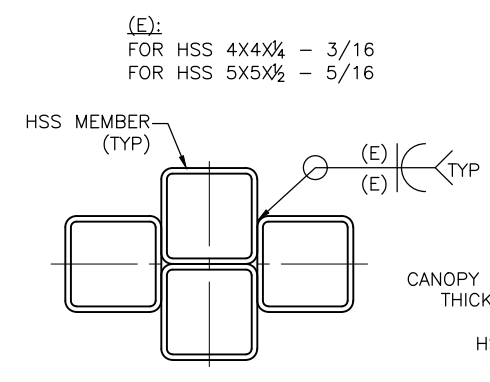
B3 PERFORATED PANEL TO STD PIPE CONNECTION



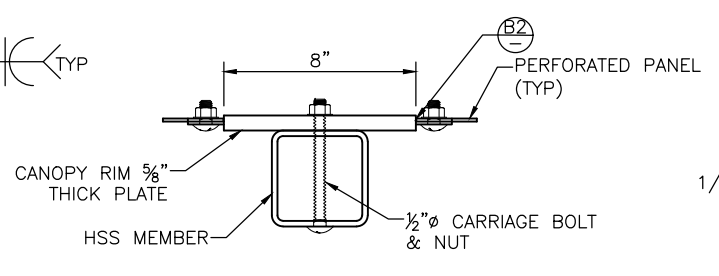
B4 STD TUBE TO CANOPY RIM CONNECTION



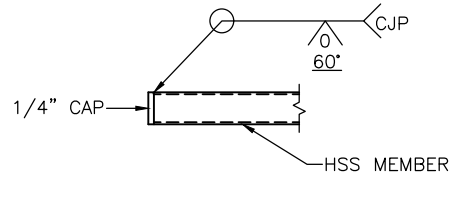
B5 STD TUBE TO CANOPY RIM CONNECTION



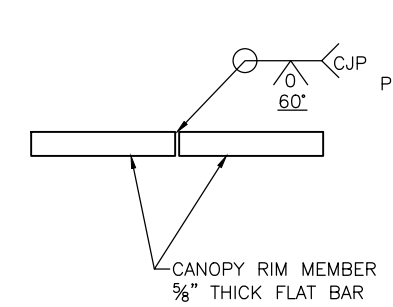
A1 HSS MEMBER CONNECTION DETAIL



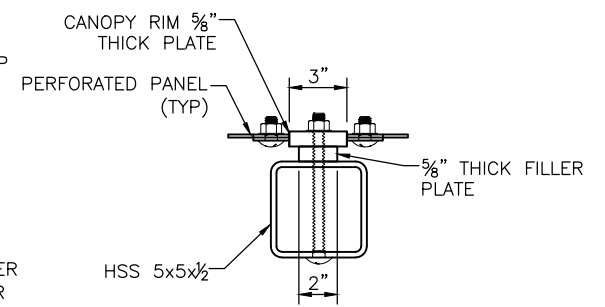
A2 STD TUBE TO FLAT BAR CONNECTION



A3 HSS MEMBER END CAP DETAIL



A4 CANOPY RIM SPLICE DETAIL



A5 STD TUBE TO CANOPY RIM CONNECTION

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STRUCTURE DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PHOENIX SHADE STRUCTURES

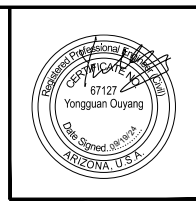
ST85170116-1

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DATE: 09/24	DATE: 09/24	DATE: 09/24	NO:	42	*

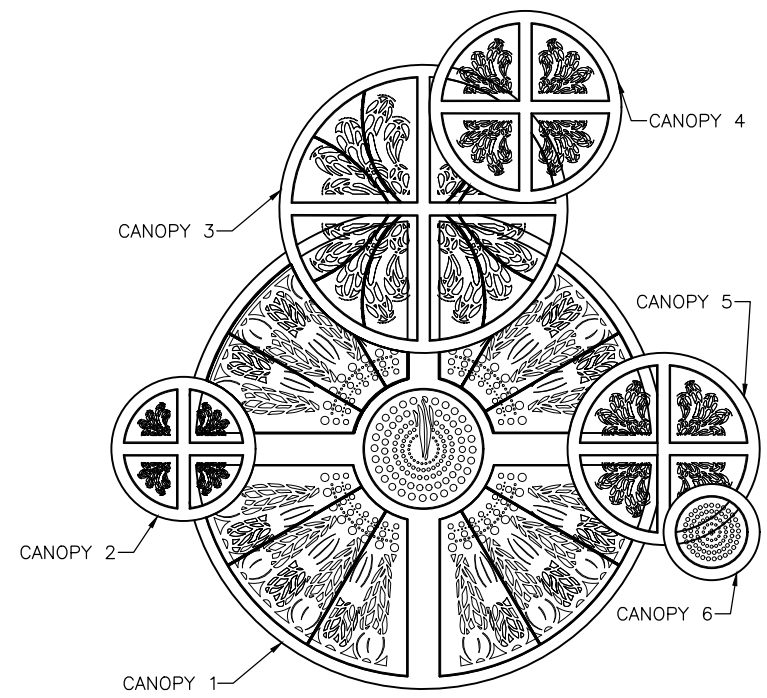
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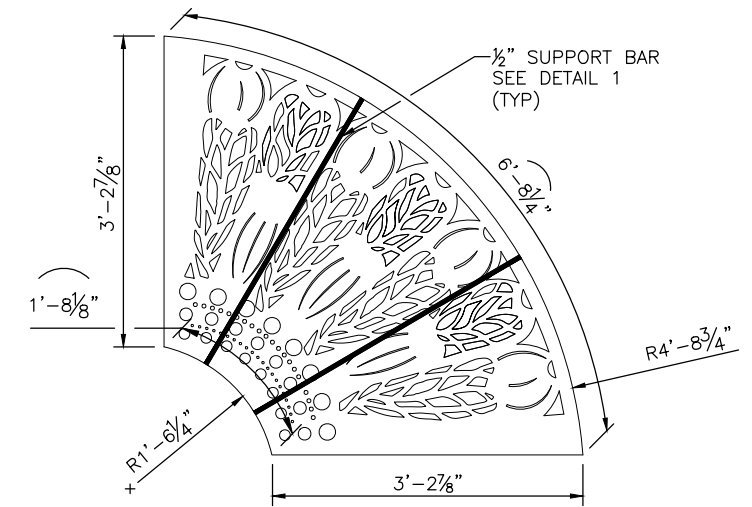
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REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHKD BY	DATE
NO.				



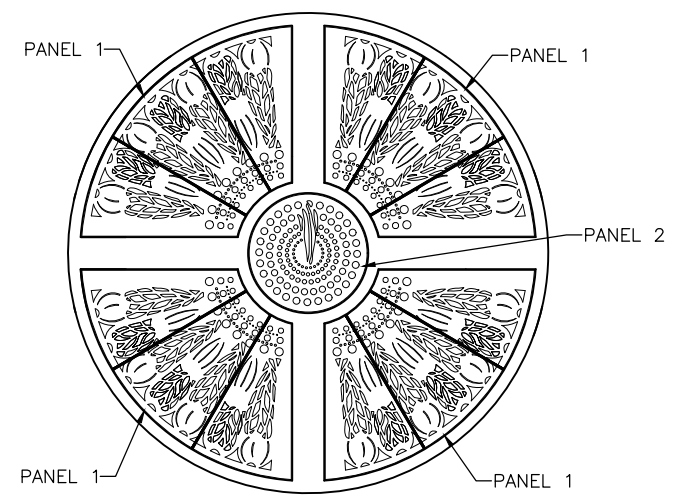
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9	ARIZ.	ST85170116-1	37	42	
DES: BR		DR: TF	CK: AO	DATE: 08/24	
TYLin CONSULTING ENGINEER					



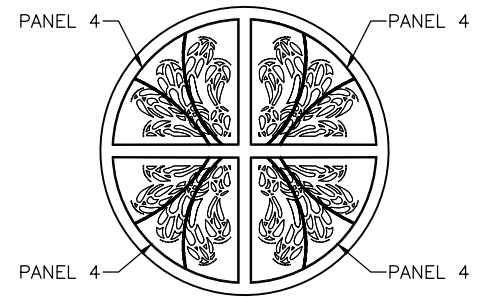
CANOPY VIEW
SCALE: 1/2"=1'-0"



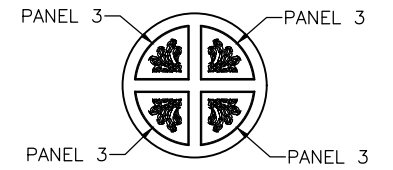
PANEL 1 DETAILS
SCALE: 1"=1'-0"



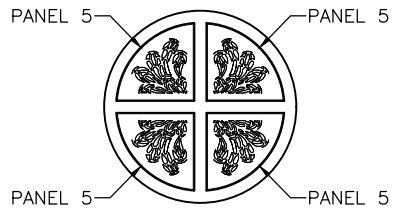
CANOPY 1 PANELS
SCALE: 1/2"=1'-0"



CANOPY 3 PANELS
SCALE: 1/2"=1'-0"



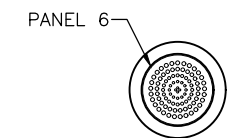
CANOPY 2 PANELS
SCALE: 1/2"=1'-0"



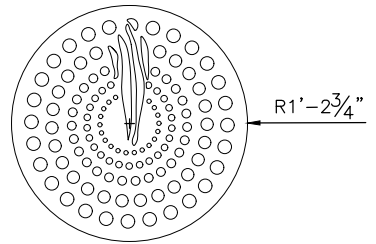
CANOPY 4 PANELS
SCALE: 1/2"=1'-0"



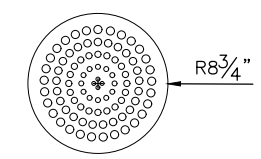
CANOPY 5 PANELS
SCALE: 1/2"=1'-0"



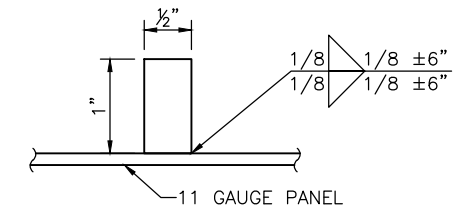
CANOPY 6 PANELS
SCALE: 1/2"=1'-0"



PANEL 2 DETAILS
SCALE: 1"=1'-0"



PANEL 6 DETAILS
SCALE: 1"=1'-0"



1/2" SUPPORT BAR DETAIL

MULTI PANEL CACTUS COLOR SCHEME:

BASE, POLE & CANOPY RIM:	PANTONE P575 (MEDIUM GREEN)
PANEL 1 ON CANOPY 1:	PANTONE D7D2CB (WARM GREY 1)
PANEL 2 ON CANOPY 1:	PANTONE 2003 (LIGHT YELLOW)
PANELS 3, 4, 5:	PANTONE 377 (LIGHT GREEN)
PANEL 6:	PANTONE 2350 (DARK RED)

CANOPY PERFORATED STEEL PANEL:

- PERFORATED STEEL PANELS SHALL BE 11 GAUGE THICK WITH 1/2" MINIMUM SOLID BORDER. PERFORATED STEEL PANEL DESIGN PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY.
- CONTRACTOR SHALL OBTAIN AN ELECTRONIC VERSION OF THE CANOPY PANELS DIRECTLY FROM THE ARTIST. CONTRACTOR SHALL PRODUCE A SAMPLE FOR EACH PANEL FOR REVIEW AND APPROVAL.
- STRUCTURE COLOR SCHEME PER THIS SHEET.
- LOCATION OF SUPPORT BARS SUBJECT TO CHANGE BASED ON TESTING.

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ARIZONA 811
Arizona Blue Stake, Inc.

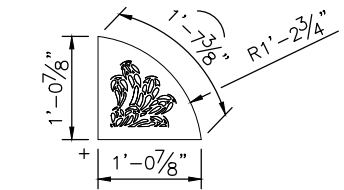
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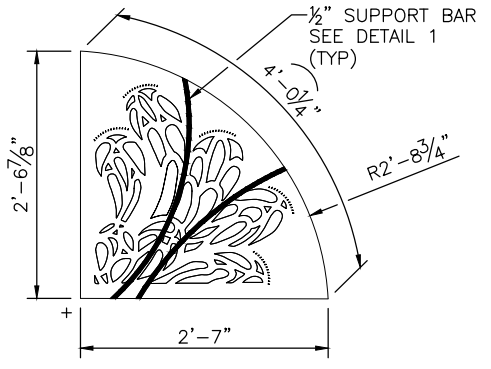
MULTI PANEL CACTUS PANEL DETAILS
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PHOENIX SHADE STRUCTURES
MULTI PANEL CACTUS
ST85170116-1

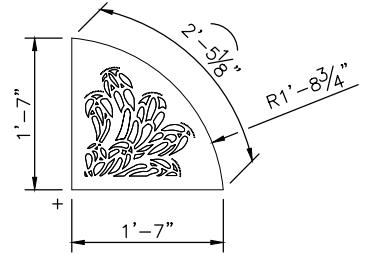
DR: TF	DES: BR	CK: AO	SHEET NO:	TOTAL SHEETS:	AS BUILT:
DATE: 09/24	DATE: 09/24	DATE: 09/24	37	42	*
SCALE: SEE PLAN					



PANEL 3 DETAILS
SCALE: 1"=1'-0"



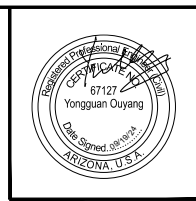
PANEL 4 DETAILS
SCALE: 1"=1'-0"



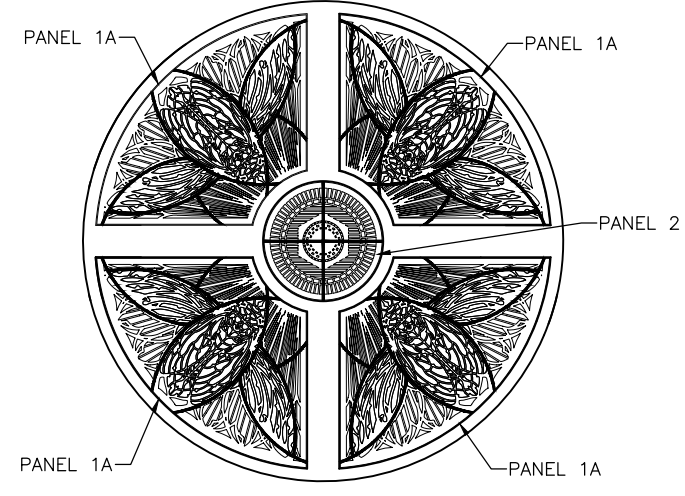
PANEL 5 DETAILS
SCALE: 1"=1'-0"

4/19/2024 11:31:14 AM Brandon.Rudelph tylin@tylin.com

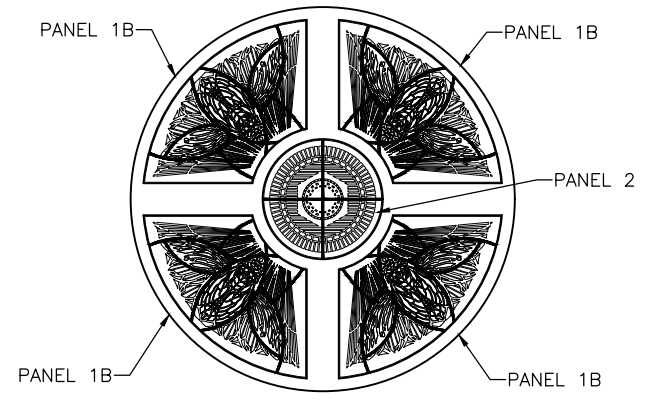
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NO.				



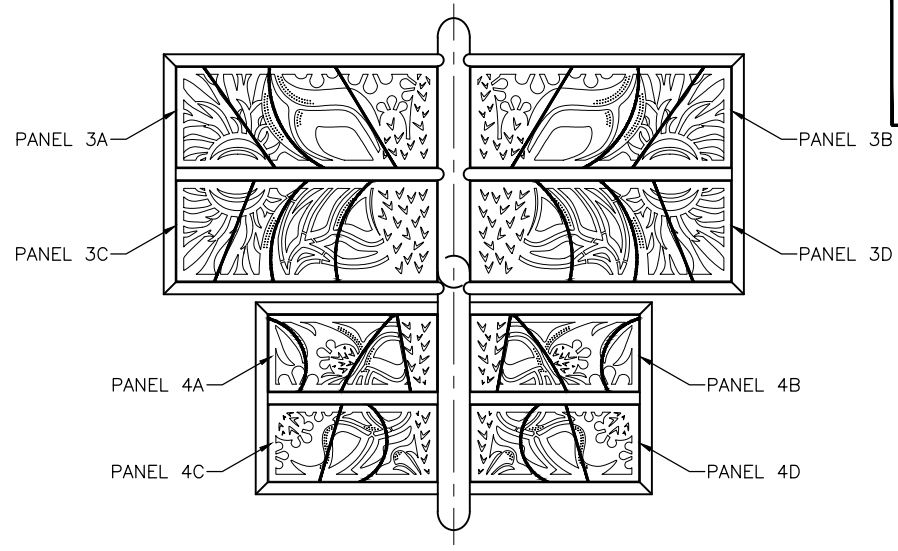
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9	ARIZ.	ST85170116-1	38	42	
DES: BR			DR: TF	CK: AO	DATE: 08/24
TYLin			TYLIN CONSULTING ENGINEER		



CANOPY VIEW - CACTUS
SCALE: 1/2"=1'-0"



CANOPY VIEW - CACTUS 8'
SCALE: 1/2"=1'-0"



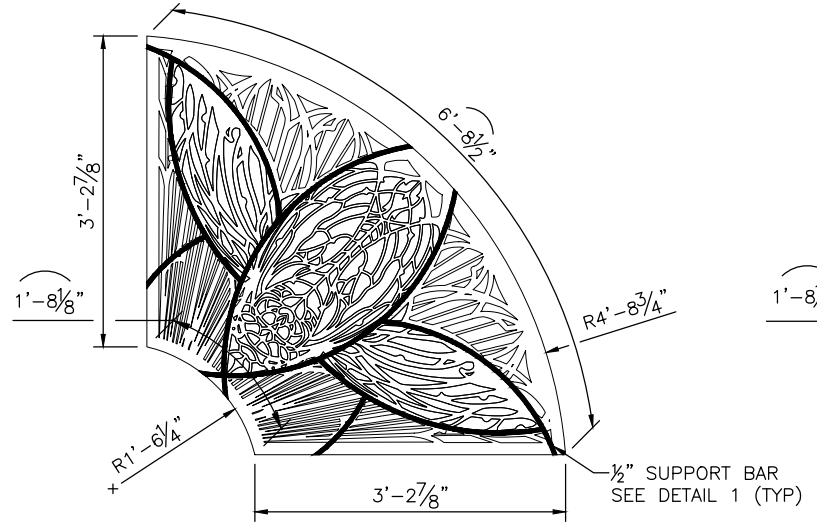
CANOPY VIEW - BUTTERFLY
SCALE: 1/2"=1'-0"

CACTUS COLOR SCHEME:

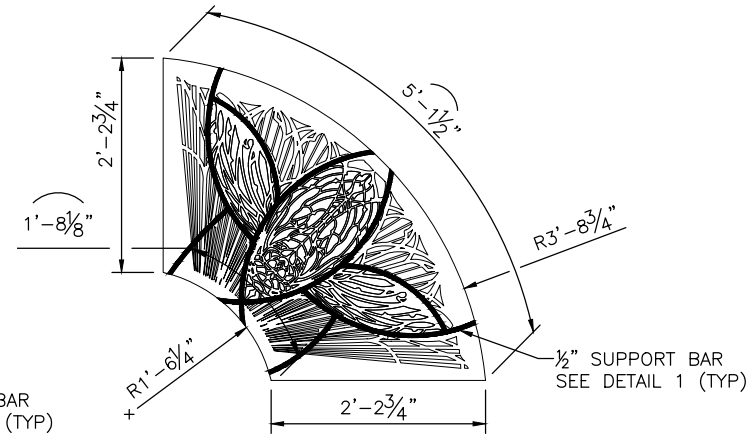
POT & TUBES: PANTONE 3135C
 PANEL 1A, 1B, & 2: PANTONE 222C
 CANOPY RIM: WHITE

BUTTERFLY COLOR SCHEME:

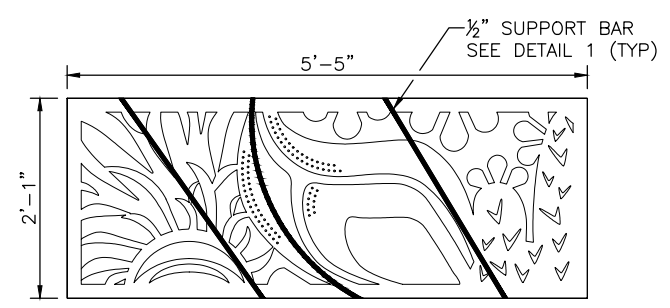
POLE AND FRAMES: PANTONE 7416C
 ALL PANELS: PANTONE 7723
 CONCRETE POT: PANTONE 611C



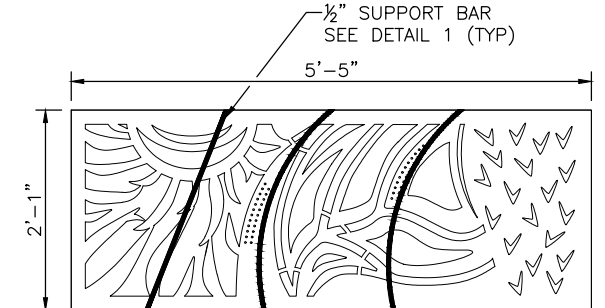
PANEL 1A DETAILS
SCALE: 1"=1'-0"



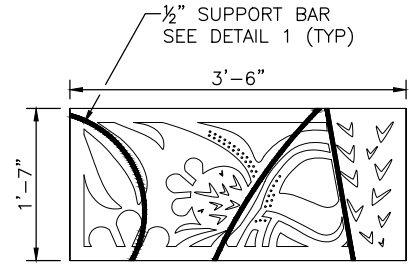
PANEL 1B DETAILS
SCALE: 1"=1'-0"



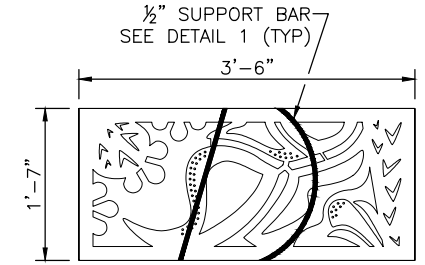
PANEL 3A & 3B DETAILS
SCALE: 1"=1'-0"



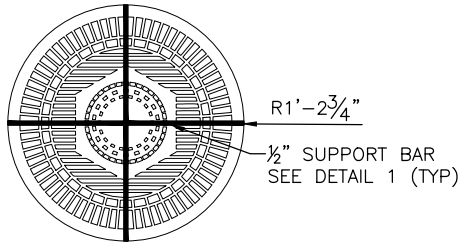
PANEL 3C & 3D DETAILS
SCALE: 1"=1'-0"



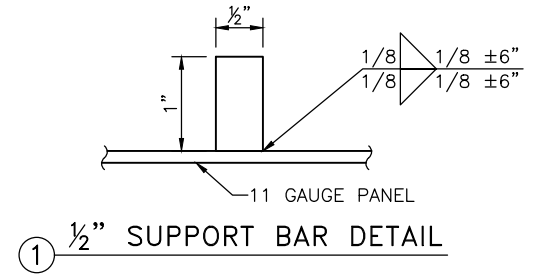
PANEL 4A & 4B DETAILS
SCALE: 1"=1'-0"



PANEL 4C & 4D DETAILS
SCALE: 1"=1'-0"



PANEL 2 DETAILS
SCALE: 1"=1'-0"



1/2" SUPPORT BAR DETAIL

CANOPY PERFORATED STEEL PANEL:

- PERFORATED STEEL PANELS SHALL BE 11 GAUGE THICK WITH 1/2" MINIMUM SOLID BORDER. PERFORATED STEEL PANEL DESIGN PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY.
- CONTRACTOR SHALL OBTAIN AN ELECTRONIC VERSION OF THE CANOPY PANELS DIRECTLY FROM THE ARTIST. CONTRACTOR SHALL PRODUCE A SAMPLE FOR EACH PANEL FOR REVIEW AND APPROVAL.
- STRUCTURE COLOR SCHEME PER THIS SHEET.
- LOCATION OF SUPPORT BARS SUBJECT TO CHANGE BASED ON TESTING.

Call at least two full working days before you begin excavation.

ARIZONA 811
Arizona Blue Stake, Inc.

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In Maricopa County: (602) 263-1100

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CACTUS & BUTTERFLY PANEL DETAILS

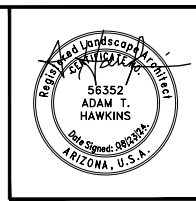
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PHOENIX SHADE STRUCTURES CACTUS & BUTTERFLY ST85170116-1

DR: TF	DES: BR	CK: AO	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 09/24	DATE: 09/24	DATE: 09/24	38	42	*
SCALE: SEE PLAN					

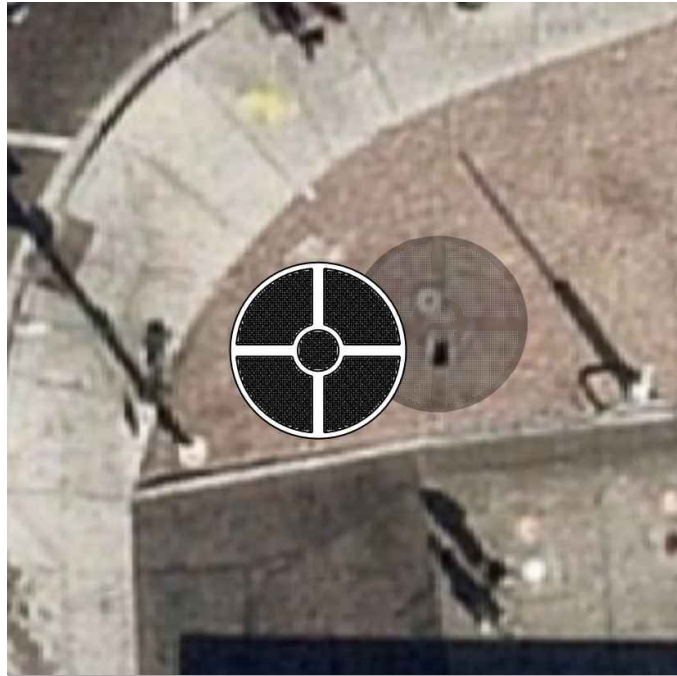
4/19/2024 11:31:22 AM Brandon Rudeolph T:\TYLin\PHX\PHX\0100161\004\600_1_Panels\Details-CB.dwg

REVISION BY CITY OF PHOENIX		NO.	DESCRIPTION	REV BY	CKD BY	DATE
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REVISION BY CITY OF PHOENIX		NO.	DESCRIPTION	REV BY	CKD BY	DATE



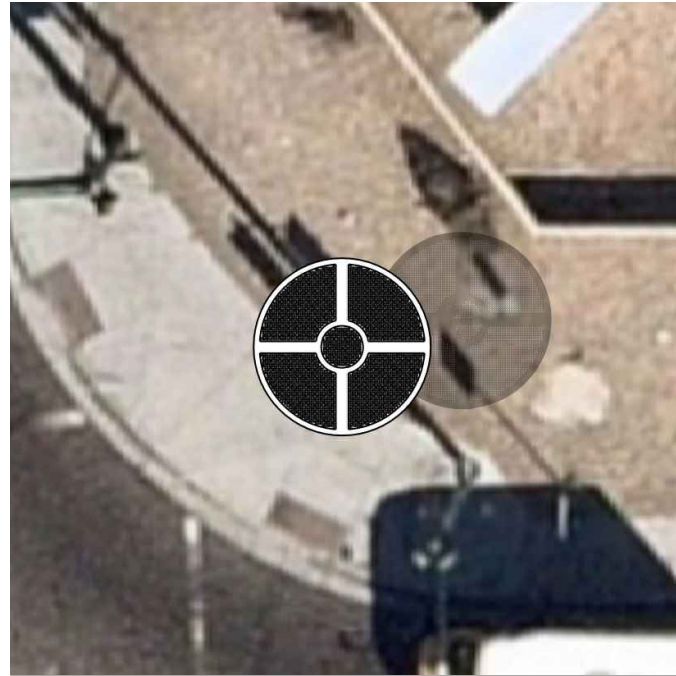
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	39	42	*
DES: AH		DR: BS	CK: AH	DATE: 08/24	

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J2 Design
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DUNLAP AVE & 19TH AVE - SE CORNER

1 CORNER 001 - SUN SHADE STUDY
SCALE:NTS



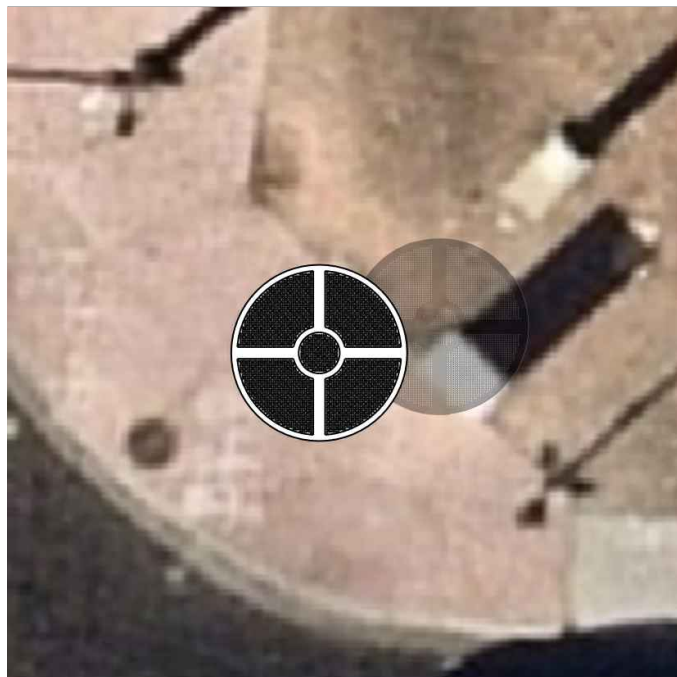
DUNLAP AVE & 19TH AVE - NE CORNER

2 CORNER 002 - SUN SHADE STUDY
SCALE:NTS



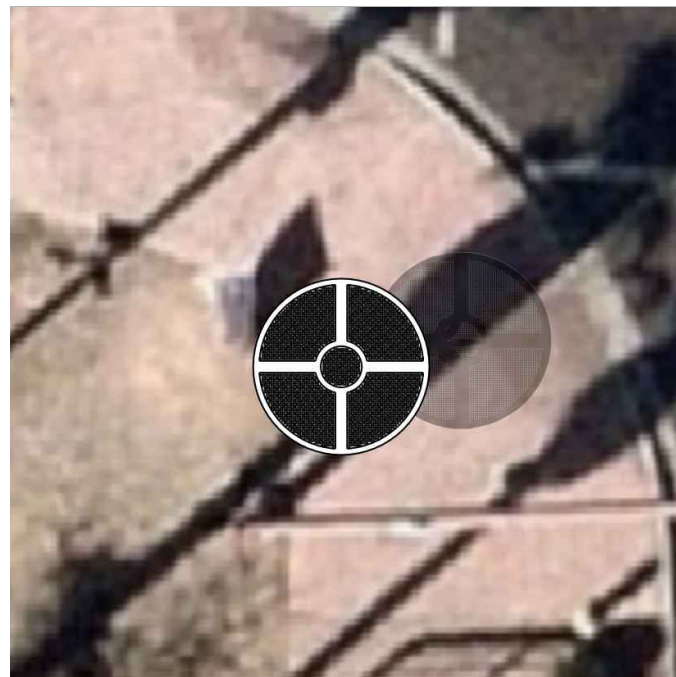
DUNLAP AVE & 19TH AVE - NW CORNER

3 CORNER 003 - SUN SHADE STUDY
SCALE:NTS



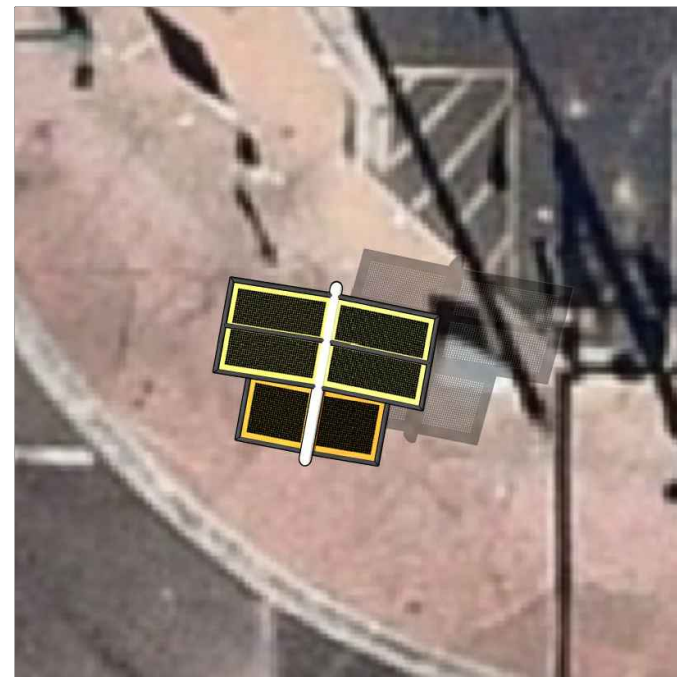
INDIAN SCHOOL RD & CENTRAL AVE - NE CORNER

4 CORNER 005 - SUN SHADE STUDY
SCALE:NTS



INDIAN SCHOOL RD & CENTRAL AVE - SW CORNER

5 CORNER 006 - SUN SHADE STUDY
SCALE:NTS



CAMELBACK ROAD & 19TH AVE - NE CORNER

6 CORNER 007 - SUN SHADE STUDY
SCALE:NTS

NOTE:
 1. SUN STUDY IMAGES PRODUCED TO REPLICATE SUN ANGLES ON JULY 21ST AT 3:00 PM



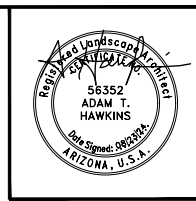
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CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT				
PHOENIX SHADE STRUCTURES				
ST85170116-1				

DR:	DES:	CK:	SHEET NO:	TOTAL SHEETS:	AS BUILT:
DATE: 08/24	DATE: 08/24	DATE: 08/24	39	42	*
SCALE:					

8/23/2024 1:40:54 PM Bradley Sampson

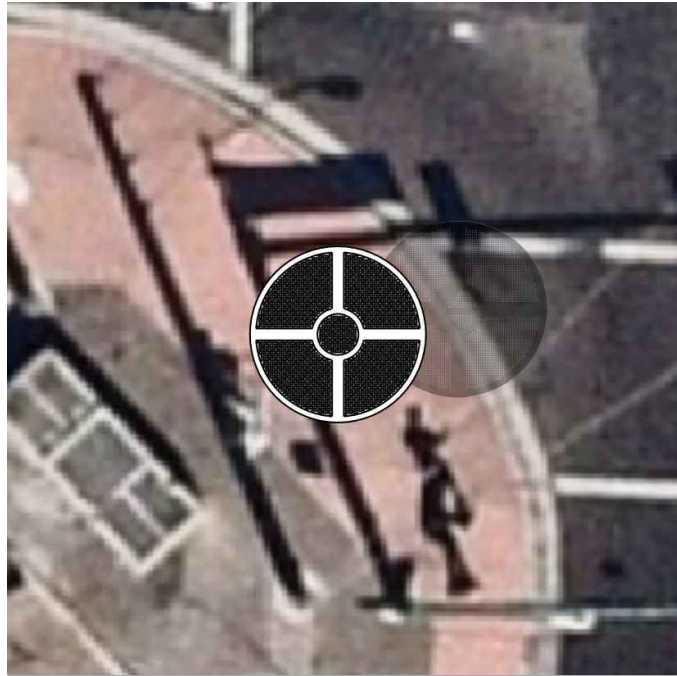
REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CKD BY	DATE
REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CKD BY	DATE
REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CKD BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	40	42	*
DES: AH		DR: BS	CK: AH	DATE: 08/24	

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TYLIN INTERNATIONAL
CONSULTING ENGINEER

J&J Design
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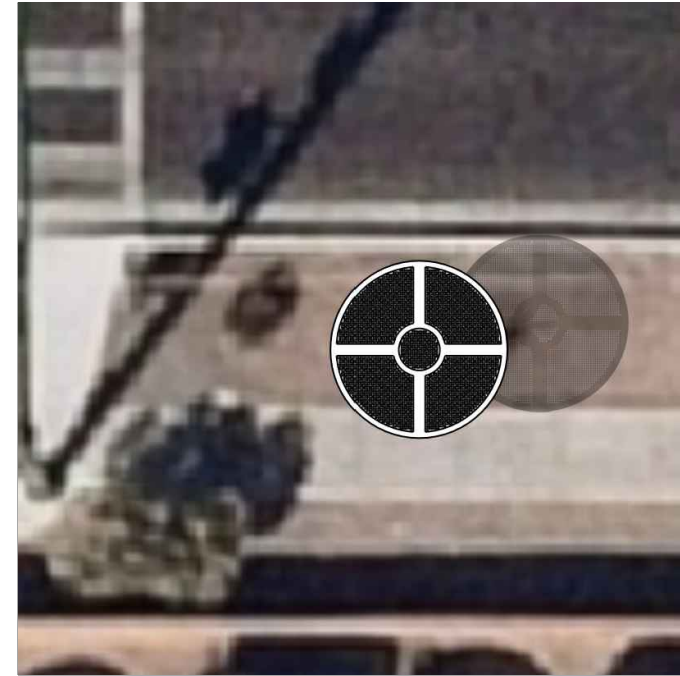
CAMELBACK ROAD & 19TH AVE - SW CORNER

1 CORNER 008 - SUN SHADE STUDY
SCALE:NTS



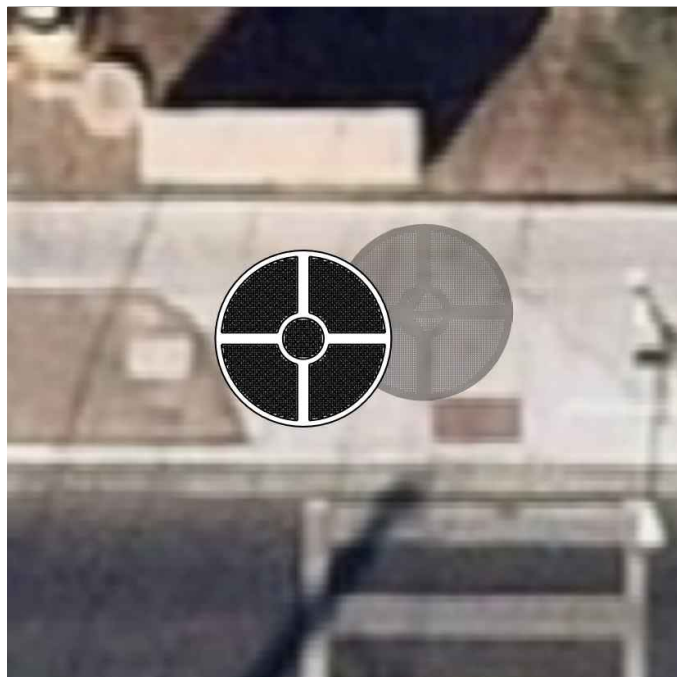
VAN BUREN ST & 28TH STREET - SW CORNER

2 CORNER 009 - SUN SHADE STUDY
SCALE:NTS



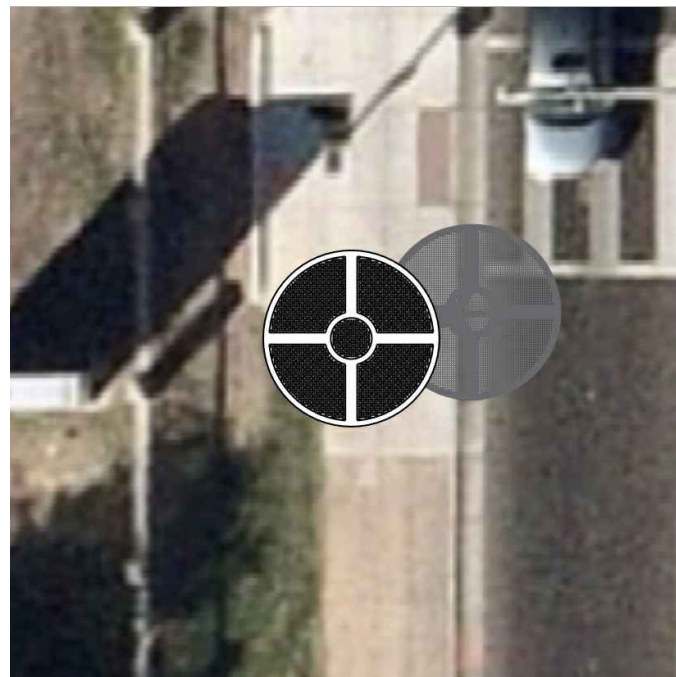
VAN BUREN ST & W OF 35TH ST - SOUTH SIDE

3 CORNER 013 - SUN SHADE STUDY
SCALE:NTS



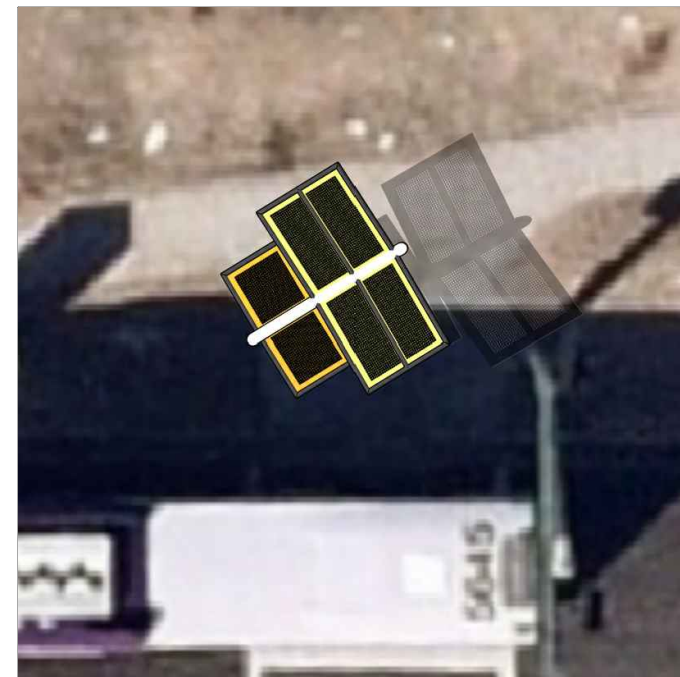
VAN BUREN ST & 36TH STREET - NORTH SIDE

4 CORNER 014 - SUN SHADE STUDY
SCALE:NTS



N OF MCDOWELL RD & 16TH ST - WEST SIDE

5 CORNER 015 - SUN SHADE STUDY
SCALE:NTS



THOMAS ROAD & W OF 43RD AVE - NORTH SIDE

6 CORNER 016 - SHADE SUN STUDY
SCALE:NTS

NOTE:
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CITY OF PHOENIX, ARIZONA				
STREET TRANSPORTATION DEPARTMENT				
PHOENIX SHADE STRUCTURES				
ST85170116-1				

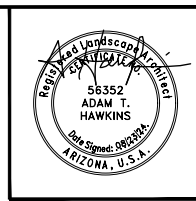
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DATE: 08/24	DATE: 08/24	DATE: 08/24	40	42	*
SCALE:					

8/23/2024 1:40:54 PM Bradley Sampson

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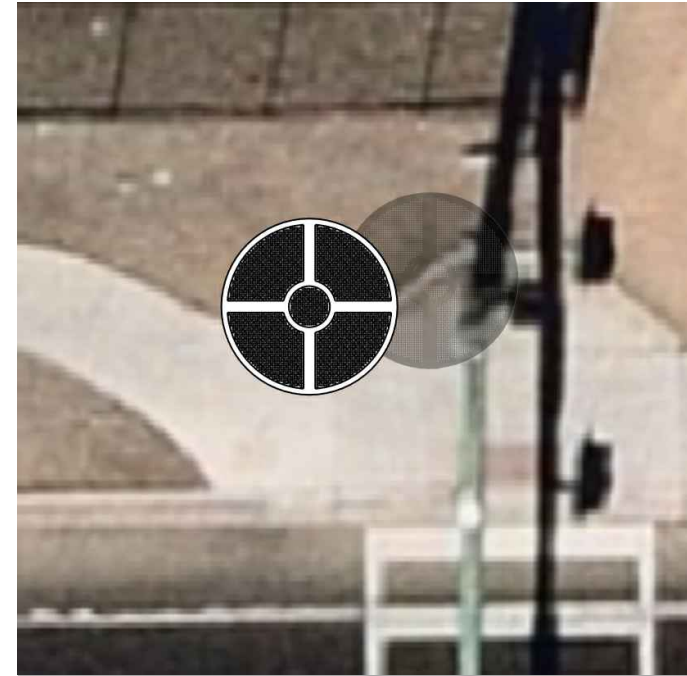
NO.	DESCRIPTION	REV BY	CHK BY	DATE



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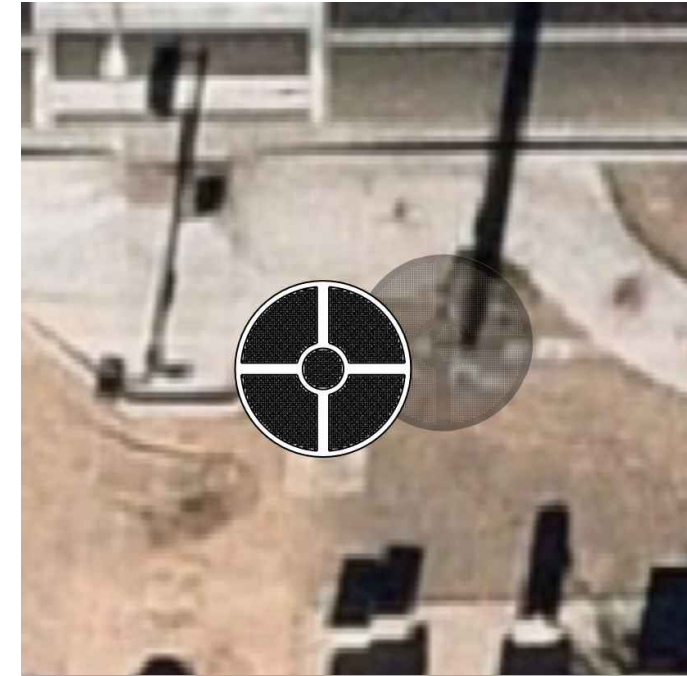
TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER
 DES: AH DR: BS CK: AH DATE: 08/24

J2 Design
 4649 E COTTON GIN LOOP B2 PHOENIX, AZ 85040 602.438.2221



MCDOWELL RD & W OF 67TH AVE - NORTH SIDE

1 CORNER 018 - SHADE SUN STUDY
SCALE:NTS



MCDOWELL RD & W OF 67TH AVE - SOUTH SIDE

2 CORNER 019 - SHADE SUN STUDY
SCALE:NTS



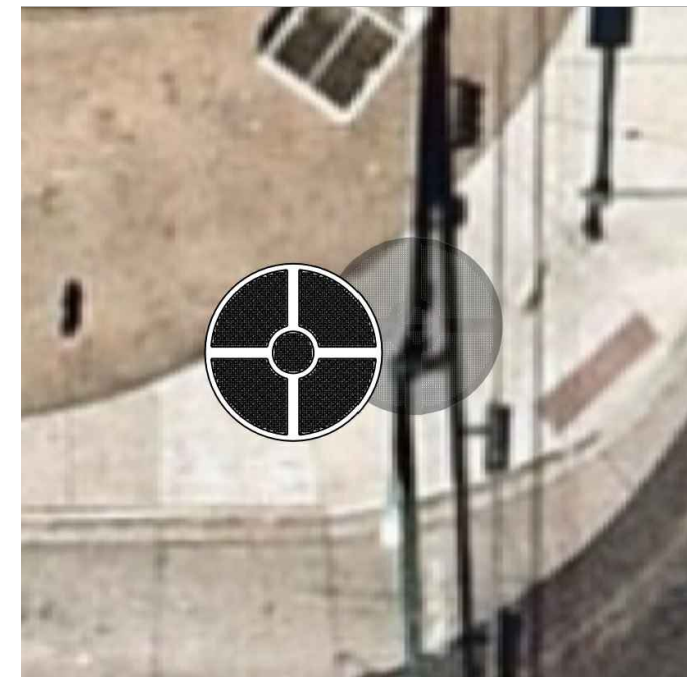
NORTHERN AVE & 35TH AVE - NE CORNER

3 CORNER 021 - SHADE SUN STUDY
SCALE:NTS



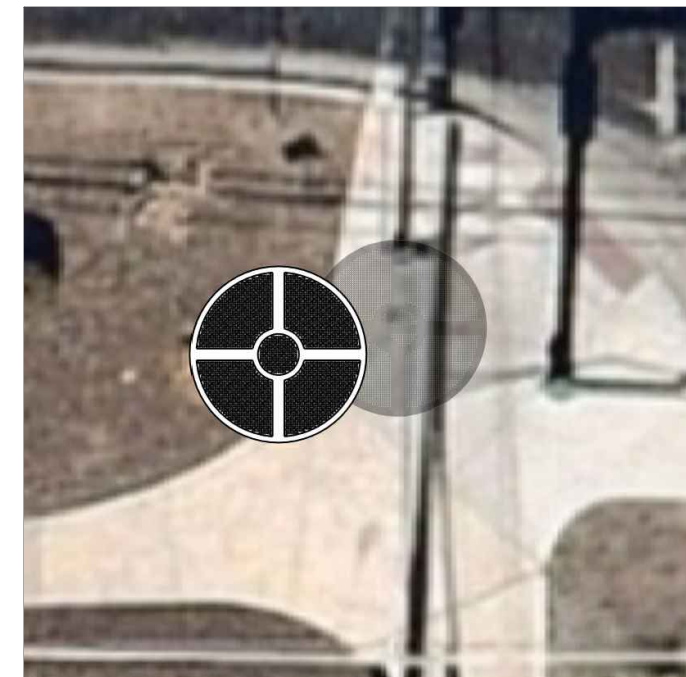
CAMELBACK ROAD & 23RD AVE - SE CORNER

4 CORNER 022 - SUN SHADE STUDY
SCALE:NTS



INDIAN SCHOOL ROAD & 59TH AVE - NW CORNER

5 CORNER 023 - SHADE SUN STUDY
SCALE:NTS



INDIAN SCHOOL ROAD & 59TH AVE - SW CORNER

6 CORNER 024 - SHADE SUN STUDY
SCALE:NTS

NOTE:
 1. SUN STUDY IMAGES PRODUCED TO REPLICATE SUN ANGLES ON JULY 21ST AT 3:00 PM



Call at least two full working days before you begin excavation.

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 Arizona Blue Stake, Inc.

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CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

PHOENIX SHADE STRUCTURES

ST85170116-1

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DATE: 08/24	DATE: 08/24	DATE: 08/24	41	42	*


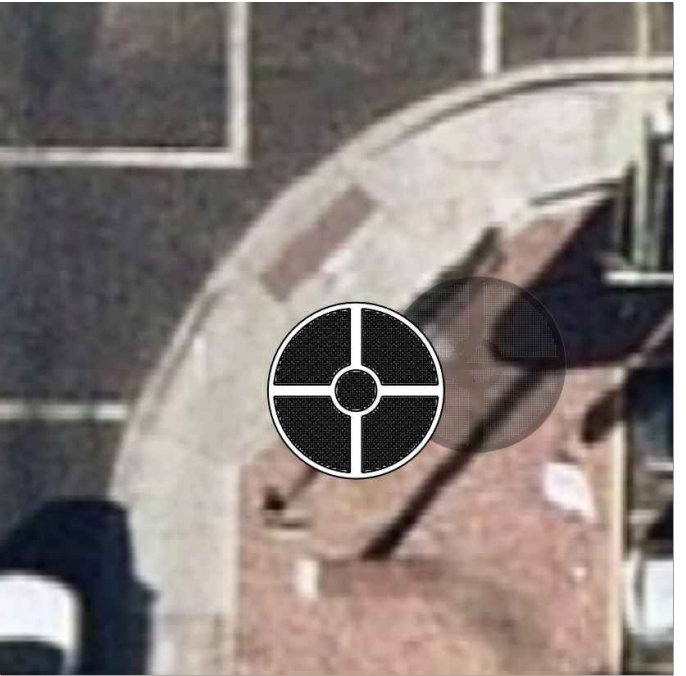
8/23/2024 1:40:54 PM Bradley Sampson

REVISION BY CITY OF PHOENIX		REVISION BY CITY OF PHOENIX		REVISION BY CITY OF PHOENIX		REVISION BY CITY OF PHOENIX								
NO.	DESCRIPTION	REV BY	CHK BY	DATE	NO.	DESCRIPTION	REV BY	CHK BY	DATE	NO.	DESCRIPTION	REV BY	CHK BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85170116-1	42	42	*

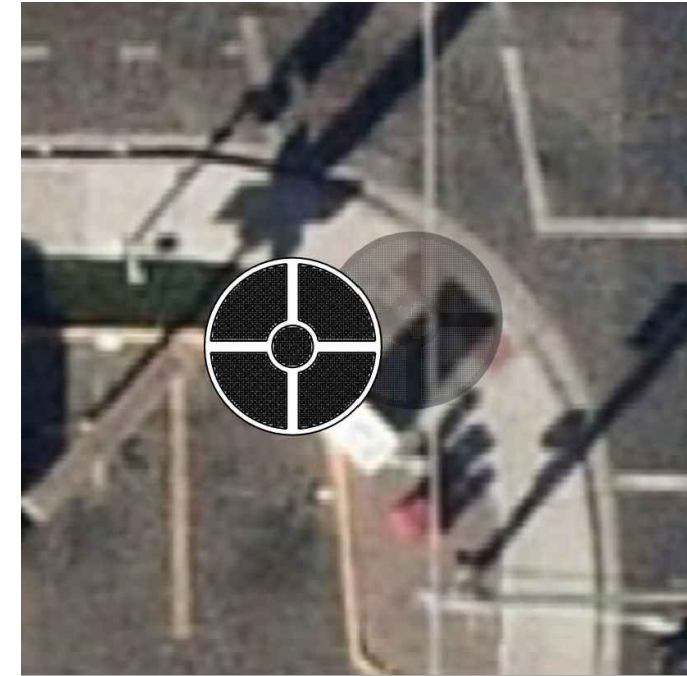
TYLin TYLIN INTERNATIONAL CONSULTING ENGINEER
DES: AH DR: BS CK: AH DATE: 08/24

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ROOSEVELT ST & 16TH STREET - SE CORNER

1 CORNER 025 - SHADE SUN STUDY
SCALE:NTS



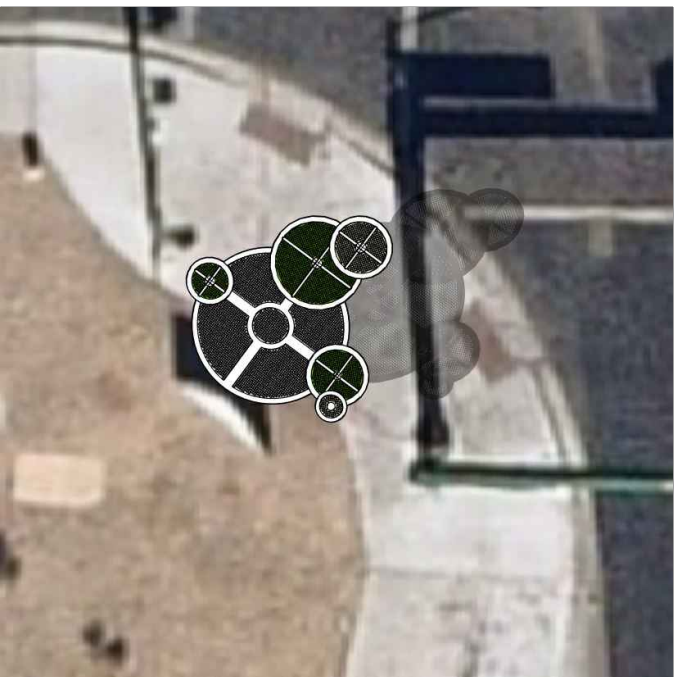
ROOSEVELT ST & 16TH STREET - SW CORNER

2 CORNER 026 - SHADE SUN STUDY
SCALE:NTS



ROOSEVELT ST & 16TH STREET - NE CORNER

3 CORNER 027 - SHADE SUN STUDY
SCALE:NTS



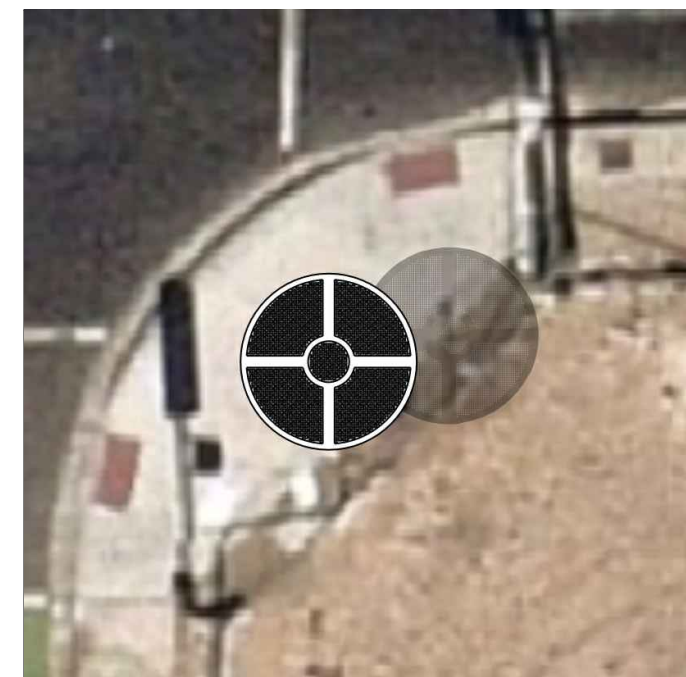
SOUTHERN AVE & 19TH AVE - SW CORNER

4 CORNER 028 - SHADE SUN STUDY
SCALE:NTS



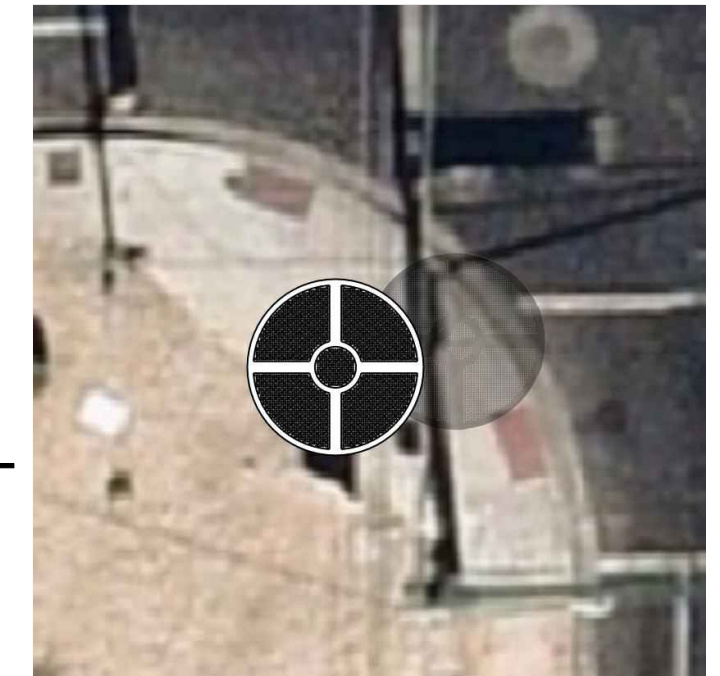
SOUTHERN AVE & 19TH AVE - NE CORNER

5 CORNER 029 - SHADE SUN STUDY
SCALE:NTS



SOUTHERN AVE & 24TH STREET - SE CORNER


6 CORNER 030 - SHADE SUN STUDY
SCALE:NTS



SOUTHERN AVE & 24TH STREET - SW CORNER

7 CORNER 031 - SHADE SUN STUDY
SCALE:NTS

NOTE:
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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PHOENIX SHADE STRUCTURES

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DR:	DES:	CK:	SHEET NO:	TOTAL SHEETS:	AS BUILT:
DATE:08/24	DATE:08/24	DATE:08/24	42	42	*

8/23/2024 1:40:54 PM Bradley Sampson