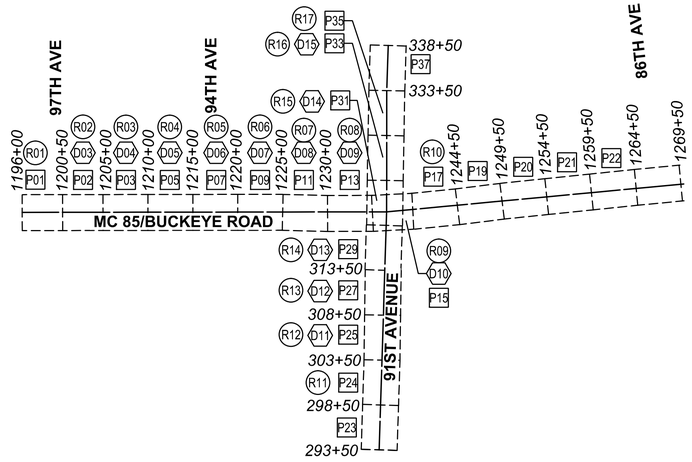
DocuSign Envelope ID: 8A71A57B-79DD-4381-994B-696A044DFB8A

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	1	132	

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION

PLANS FOR THE CONSTRUCTION OF
TT0651 - MC 85 & 91ST AVE
(MC 85: 95TH AVENUE TO 87TH AVENUE)

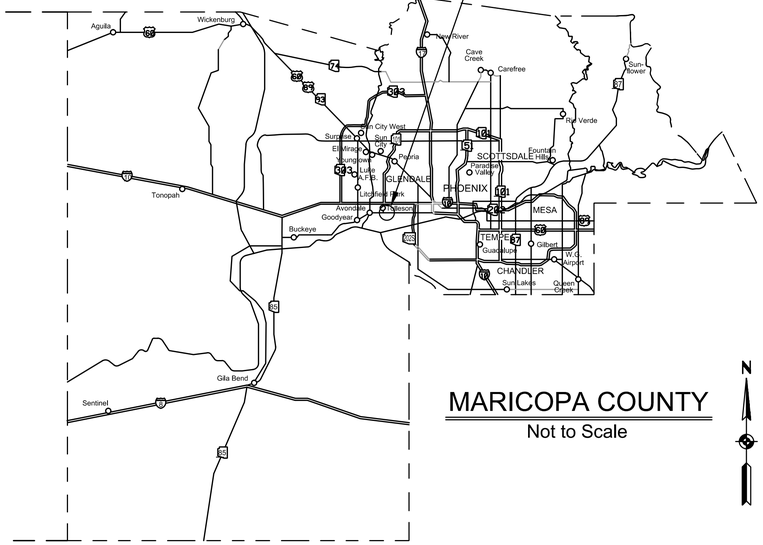
PROJECT NO. TT0651



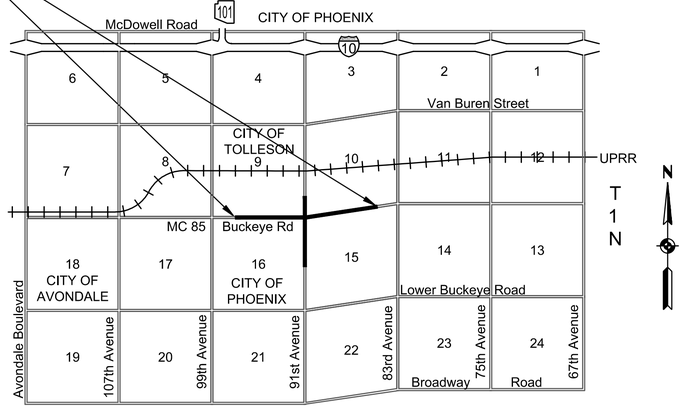
KEY MAP
Not to Scale

- REMOVAL/RELOCATION SHEETS (R-Series)
- PAVING PLAN SHEETS (P-Series)
- DRAINAGE PLAN SHEETS (D-Series)

PROJECT NO. TT0651



MARICOPA COUNTY
Not to Scale



VICINITY MAP
Not to Scale

LOCATIONS FOR AS-BUILT INDEXING

Township	Range	Section	Quarter
1N	1E	9	SW
1N	1E	9	SE
1N	1E	16	NE
1N	1E	16	NW
1N	1E	10	SW
1N	1E	10	SE
1N	1E	15	NE
1N	1E	15	NW

IN COOPERATION WITH:
CITY OF PHOENIX
& CITY OF TOLLESON

MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR CONSTRUCTION:

DocuSigned by: Ben Markert 7/6/2022

BENJAMIN MARKERT, P.E. **DATE**
PROJECT MANAGER

ISSUED FOR CONSTRUCTION:

DocuSigned by: Jennifer Toth 7/12/2022

JENNIFER TOTH, P.E. **DATE**
TRANSPORTATION DIRECTOR

COUNTY BOARD OF SUPERVISORS

BILL GATES - CHAIRMAN

DISTRICT 1	JACK SELLERS
DISTRICT 2	THOMAS GALVIN
DISTRICT 3	BILL GATES
DISTRICT 4	CLINT HICKMAN
DISTRICT 5	STEVE GALLARDO

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed Dec 22 Arizona USA

TRACS NO. _____

6/20/2022

7:07:28pm

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_CS.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	2	132	

ABBREVIATIONS*

AASHTO.....	American Association of State Highway and Transportation Officials
AB.....	Aggregate Base
AC.....	Asphaltic Concrete
AC.....	Aluminum Cap
ACBC.....	Asphaltic Concrete Base Course
ACFC.....	Asphalt Concrete Friction Course
ACI.....	American Concrete Institute
ACP.....	Asbestos Cement Pipe
ACSC.....	Asphalt Concrete Surface Course
ADOT.....	Arizona Department of Transportation
Ahd.....	Ahead
AISC.....	American Institute of Steel Construction
AL.....	Aluminum
APS.....	Arizona Public Service Company
Asph.....	Asphalt
ASTM.....	American Society for Testing Materials
AWS.....	American Welding Society
B/C.....	Back of Curb
BC.....	Brass Cap
BCR.....	Begin Curb Return
BCT.....	Breakaway Cable Terminal
Bdy.....	Boundary
Bev.....	Bevel(ed)
BFS.....	Begin Full Super
Bit.....	Bituminous
Bk.....	Back
Bkfl.....	Backfill
BLM.....	Bureau of Land Management
BM.....	Bench Mark
Br.....	Bridge
C&G.....	Curb and Gutter
Cab.....	Cabinet
CAP.....	Corrugated Aluminum Pipe
CAPA.....	Corrugated Aluminum Pipe Arch
CB.....	Catch Basin
CBC.....	Concrete Box Culvert
CG.....	Cattle Guard
CIP.....	Cast Iron Pipe
CIPP.....	Cast-in-Place Pipe
CL.....	Centerline
Clr.....	Clear(ance)
CLD.....	Concrete Lined Ditch
CLK.....	Century Link
CMP.....	Corrugated Metal Pipe
CMPA.....	Corrugated Metal Pipe Arch
CO.....	Clean Out
Conc.....	Concrete
Conn.....	Connection
Const.....	Construction
Cont.....	Continuous
COP.....	City Of Phoenix
Cop.....	Copper
Cor.....	Corner
Corr.....	Correction (VPI to VC)
CP.....	Concrete Pipe
CR.....	Crown
CSP.....	Corrugated Steel Pipe
CSPA.....	Corrugated Steel Pipe Arch
CTB.....	Concrete Treated Base
D.....	Degree of Curvature
DA.....	Drainage Area
DBC.....	Direct Buried Cable
DE.....	Drainage Easement
Def.....	Deflection
Det.....	Detail
Dia.....	Diameter
DIP.....	Ductile Iron Pipe
Drn.....	Drain(age)
D/W.....	Driveway
Dwg.....	Drawing
E.....	Electric(ity)
e.....	External
EA.....	Each
ECR.....	End Curb Return
EFS.....	End Full Super
El.....	Elevation
Emb.....	Embankment
EP.....	Edge of Pavement
Esmt.....	Easement
Exc.....	Excavation
Exist.....	Existing
Exp Jt.....	Expansion Joint
F/C.....	Face of Curb
FCDMC...	Flood Control District of Maricopa County
Fd.....	Found
FF.....	Finished Floor (Elevation)
FH.....	Fire Hydrant
FL.....	Flow Line
Fnd.....	Found
FO.....	Fiber Optic
Fwy.....	Freeway
G.....	Gutter (Flowline Elevation)
ga.....	Gauge
GB.....	Grade Break
GLO.....	General Land Office
GM.....	Gas Meter
Gnd.....	Ground
GP.....	Guy Pole
Gr.....	Grade
GR.....	Guardrail
GV.....	Gas Valve
HDPE.....	High Density Polyethyline
Hdwl.....	Headwall
HH.....	Hand Hole
Hi.....	High
HW.....	High Water
IBX.....	Irrigation Control Box
ID.....	Inside Diameter
itf.....	International Feet
Inv.....	Invert
Irr.....	Irrigation
L.....	Length of Curve
LC.....	Long Chord
LPS.....	Light Pole
LS.....	Lump Sum
Lt.....	Left
MAG.....	Maricopa Association of Governments
Matl.....	Material
MC	Maricopa County
MCDOT.....	Maricopa County Department of Transportation
MGS.....	Midwest Guardrail System
MH.....	Manhole
Mkd.....	Marked
Min.....	Minimum
Mod.....	Modify
Mon.....	Monument
NC.....	Normal Crown
NPDES.....	National Pollutant Discharge Elimination System
NTS.....	Not to Scale
OC.....	On Center
OD.....	Outside Diameter
OFF.....	Offset
P.....	Pavement (Surface Elevation)
Pl.....	Plastic
Ped.....	Pedestal
PC.....	Point of Curvature
PCC.....	Point of Compound Curvature
PCC.....	Portland Cement Concrete
PCCP.....	Portland Cement Concrete Pavement
PH.....	Pothole
PI.....	Point of Intersection
Pkwy.....	Parkway
POB.....	Point of Beginning
POC.....	Point on Curve
POE.....	Point of End
POT.....	Point on Tangent
PP.....	Power Pole
PRC.....	Point of Reverse Curvature
Prel.....	Preliminary
Proj.....	Project
Prop.....	Proposed
PRVC.....	Point of Reverse Vertical Curvature
PT.....	Point of Tangency
PVC.....	Point of Vertical Curvature
PVC.....	Poly Vinyl Chloride
PVI.....	Point of Vertical Intersection
Pvmt.....	Pavement
PVT.....	Point of Vertical Tangency
Q.....	Quantity of Drainage Runoff
Qtr.....	Quarter
R.....	Radius
R.....	Range
RCP.....	Reinforced Concrete Pipe
Rdwy.....	Roadway
Rebar.....	Reinforcing Bar
Reinf.....	Reinforced(ing)
Reloc.....	Relocate
Ret.....	Retain(ing)
RGRCP.....	Rubber Gasket Reinforced Concrete Pipe
RP.....	Radius Point
Rt.....	Right
R/W.....	Right of Way
SD.....	Storm Drain
S.....	Slope
Sch.....	Schedule
SCS.....	Soil Conservation Service
SD.....	Sight Distance
SE.....	Sidewalk Easement
Sec.....	Section
SG.....	Subgrade
Shldr.....	Shoulder
Shr.....	Shrinkage
Sht.....	Sheet
Sk.....	Skew
Specs.....	Specifications
SRP.....	Salt River Project
SRPD.....	Salt River Project Distribution
SRPI.....	Salt River Project Irrigation
SRPP.....	Salt River Project Power
SS.....	Sanitary Sewer
SSD.....	Stopping Sight Distance
Sta.....	Station
Std.....	Standard
Stl.....	Steel
Struc.....	Structural
Subdiv.....	Subdivision
Super.....	Superelevation
Sw.....	Swell
S/W.....	Sidewalk
SWG.....	Southwest Gas Corporation
T.....	Tangent Length
T.....	Telephone
T.....	Township
TC.....	Top of Curb
TCE.....	Temporary Construction Easement
Ton.....	Top Of Nut
Trans.....	Transition
TrRk.....	Trash Rack
TS.....	Traffic Signal Pole
TSC.....	Traffic Signal Control
Typ.....	Typical
UUA.....	Unincorporated Urbanized Areas
VC.....	Vertical Curve
VCP.....	Vitrified Clay Pipe
VG.....	Valley Gutter
W.....	Water
w/.....	with
w/o.....	without
WM.....	Water Meter
WV.....	Water Valve
WWF.....	Welded Wire Fabric

* Standard dictionary abbreviations not included.

SYMBOLS

Exist Edge of Pvmt
Exist R/W Line
Acquired Temp. Const. Easement
Acquired Drainage Easement
Property Line
Railroad Tracks
New Edge of Pavement
New Unpaved Roadway/Driveway
Catch point Top of Embankment Cut
Catch point Toe of Filled Slope
Trans Cut to Fill
Exist Barb Wire Fence
Exist Chain Link & Gate
Exist Block Wall & Gate
Exist Wood Fence
Exist Guardrail
Exist Water Line
Exist Sanitary Sewer Line
Exist Buried Electric Line
Exist Electric Duct Bank
Exist Gas Line (Matl)
Exist Irrigation Line (Matl)
Exist Storm Drain Line (Matl)
Exist Buried Cable TV Line
Exist Buried Telephone Line
Exist Fiber Optic Line
New Pipe
Easement
Forest or Reservation Boundary
Flow Line
Jurisdictional Boundary
New Guardrail
New Chain Link Fence
New Barb Wire Fence
Overhead Power
Overhead Telephone
SPRI Easement Line

Ground Surface (Section)
New Bit Pvmt (Section)
New ABC (Section)
Riprap (Plan & Section)
New Conc (Section)
Pvmt Str Sect No. 1
Microsurfacing Aggregate, Type III
Angular Riprap
Milling
Roadway Obliteration
Angle Point
Bench Mark
Center Line
Flow Line
Monument Line
Property Line or Plate
New Survey Marker Type A
New Survey Marker Type B
Sidewalk Control Point

Manhole
US Mail Box
Water Valve
Water Meter
Wood Utility Pole
Steel Utility Pole
Pole Steel
Concrete Utility Pole
Guy Wire
Street Light on Mast Arm
Utility Pedestal
Irr Stand Pipe
Fire Hydrant
Slope Direction
Survey Monument
Survey Monument in HandHole
Boring Location
Flow Arrow Symbol
SRP Transmission (69kV) Setup Area

Street Name Sign
Sign (1 Post)
Sign (2 Posts)
Traffic Control Cabinet
Traffic Pull Box
Traffic Signal Pole and Foundation
Tree or Hedge Line
Palm Tree
Deciduous Tree
Mesquite Tree
Pine Tree
Saguaro Cactus
Palo Verde Tree
Yucca Cactus
Cholla Cactus
Prickly Pear Cactus
Barrel Cactus
Existing Light Pole
Existing Power Pole
Existing Boulder
Backflow Preventer

GENERAL NOTES

1 All work shall conform the 2022 Edition of the Uniform Standard Specifications and Details for Public Works Construction published by the Maricopa Association of Governments (MAG) as modified by the MCDOT Supplement to the MAG Standard Specifications dated January, 2022 and the project Special Provisions.

2 Standard Details refer to the MAG Uniform Standard Specifications and Details for Public Works Construction unless noted otherwise.

3 All existing utility lines shown on the plans are from available utility records. The Contractor shall verify the actual location before starting construction. The Contractor shall contact "Arizona811" at 811 or (602) 263-1100 two working days prior to beginning any excavation.

4 Utilities interfering with construction shall be reset or relocated by the utility company concerned unless noted otherwise.

5 Disposal of all waste material, broken concrete, etc. will be the responsibility of the Contractor, subject to the approval of the Engineer.

6 All stations and call out distances left and right refer to the construction centerline unless noted otherwise.

7 All trees, bushes and obstacles inside the existing right-of-way which interfere with construction, shall be removed by the Contractor unless noted otherwise. Any fences damaged during construction shall be restored by the Contractor at no additional cost to the County.

8 All paved turnouts shall have the same asphalt and base requirements as the adjacent roadway unless noted otherwise.

9 The Contractor shall obtain all the necessary permits from local governments for work within their jurisdiction.

10 Construction activities shall not interfere with mail delivery. The Contractor shall temporarily relocate mailboxes as necessary to provide uninterrupted mail service. This is a non-pay item.

11 Unless otherwise provided on the plans:

- The space between the back of new driveway entrances and existing AC driveways shall be filled with a minimum of 3" ACSC 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 PCC driveways shall be filled with PCC and the thickness and class shall match that of the new sidewalk or driveway entrance.
- The space between the back of the new sidewalks, and existing AC parking lots, which fall within or abut the R/W shall be filled with 2" ACSC on 100% compacted native soil.

12 All pipe sleeves shall be 6" schedule 40 PVC and installed with a minimum offset at the joints to permit easy installation and removal of the irrigation lines. Pipe sleeves shall be installed under all paved areas including driveways. Median islands shall have pipe sleeves installed from both sides of the roadway as shown on the project plans. Sleeves shall extend at least 12" beyond the edges of the pavement. Top of pipe sleeve shall be 12" below subgrade at any point along the pipe. Both ends of each pipe sleeve shall be capped. A tracer wire shall be installed within each sleeve for future locating. All pipe sleeves should not be within 12 feet of any power poles.

13 A two (2) foot minimum vertical separation from any dry underground utility crossing shall be provided for sewer mains, sewer services, water main, or water service to outside underground utility except for crossings of large mains.

▲ PRIMARY CONTROL

NAME	1BB1
MONUMENT TYPE	METAL ROD
NAD 83(92) LAT	33°25'35.61904"N
NAD 83(92) LONG	112°15'23.78006"W
GROUND NORTHING	333014.5373
GROUND EASTING	596365.6582
NGVD29 ELEV	994.30

LENGTH OF PROJECT

MC 85/BUCKEYE RD STA 1198+34.40 TO STA 1261+45 = 6,310.60 ft
91ST AVENUE STA 296+82.64 TO STA 334+35 = 3,752.36 ft
TOTAL = 10,062.96 ft
10,062.96/5280 = 1.91 MILES

PROJECT DISTURBED AREA

Total Disturbed Area: 647,897 ft^2 = 15 Acres
Disturbed Area Within (UUA): = 490,617 ft^2 = 12 Acres

DESIGN DATA

MC85/BUCKEYE RD:
CLASSIFICATION..... URBAN MAJOR ARTERIAL
TERRAIN..... LEVEL
DESIGN SPEED..... 55 MPH
(2019) AVG DAILY TRAFFIC..... 18,255 VPD
(2035) AVG DAILY TRAFFIC..... 30,000 VPD

91ST AVE:
CLASSIFICATION..... URBAN MINOR ARTERIAL
TERRAIN..... LEVEL
DESIGN SPEED..... 55 MPH
(2015) AVG DAILY TRAFFIC..... 13,433 VPD
(2035) AVG DAILY TRAFFIC..... 24,300 VPD

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15-18	G15-G18	TYPICAL SECTIONS SHEETS
19-21	G19-G21	GEOMETRIC LAYOUT & CONTROL SHEETS
22-58	P01-P37	PAVING PLAN & PROFILE SHEETS
59	P38	INTERSECTION DETAIL SHEET
60-69	P39-P48	DRIVEWAY DETAIL SHEETS
70-72	P49-P51	MEDIAN DETAIL SHEETS
73	P52	MISCELLANEOUS DETAILS
74	P53	CURB DETAIL SHEET
75	P54	SIDEWALK DETAIL SHEET
76-77	D01-D02	DRAINAGE DETAIL SHEETS
78-90	D03-D15	DRAINAGE SHEETS
91-102	PL01-PL12	SIGNING AND MARKING SHEETS
103-109	LT01-LT07	STREET LIGHTING SHEETS
110-112	SG01-SG03	SIGNAL SHEETS
113-115	U01-U03	UTILITY SHEETS
116-132	R01-R17	REMOVAL AND UTILITY ADJUSTMENT PLAN SHEETS
133-149		STANDARD DETAIL SHEETS
150-167		SRP DISTRIBUTION PLANS

Dial 811 or visit Arizona811.com
Arizona811 811 at least two full working days before you begin excavation
ARIZONA811

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/30/22 ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

GENERAL NOTES

SHEET G02 OF G21

TRACS NO. _____

Plot Time: 7:09:26pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_LN.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	3	132	

SUMMARY OF ESTIMATED QUANTITIES

ITEM No.	ITEM DESCRIPTION	UNIT	SHEET NUMBER																
			P01	P02	P03	P05	P07	P09	P11	P13	P15	P17	P19	P20	P21	P22	P23	P24	P25	P27
201.01012	Remove Tree, Diameter > 12 in	Each																		
205.01150	Roadway Excavation	CY																		
220.10150	Riprap, D50=6 in	CY																		
230.02000	Acrylic Copolymer Surface Course Dust Palliative	SY				356	889	645	879	1,072	245								802	865
301.01000	Subgrade Preparation	SY			189	278	83	77	118	36										35
309.01008	Lime Slurry Stabilization, 8 in Depth	SY		312	3,338	5,476	5,843	5,632	5,968	6,605	5,501	366						1,294	3,892	4,000
309.02000	Lime Hydrated	Ton		4	46	76	81	77	82	91	76	5						18	54	55
310.03000	Aggregate Base Course	Ton		88	975	1,357	1,406	1,249	1,485	1,792	1,397	91						355	952	1,067
317.01001	Asphalt Milling, 1.5 in Thick	SY																		
321.01202	Asphalt Concrete Pavement (Superpave 1/2 in Mix, High Traffic)	Ton		26	252	351	390	340	409	438	497	15						106	271	270
321.01302	Asphalt Concrete Pavement (Superpave 3/4 in Mix, High Traffic)	Ton		114	1,091	1,521	1,692	1,472	1,773	1,898	1,699	63						460	1,174	1,167
329.01000	Bituminous Tack Coat SS-1h, Diluted	Ton		0.26	2.49	3.47	3.86	3.35	4.03	4.33	4.65	0.14						1.05	2.68	2.66
331.03300	Microsurfacing Aggregate, Type III	SY	352	2,735	907						1,953	4,889	4,682	4,108	4,012	1,796	609	1,687	1,253	1,252
340.01110	Vertical Curb & Gutter, Type A, H=6 in, MAG Det 220	LF			143	369	536	131	537	527	102								510	500
340.01111	Vertical Curb & Gutter, Type A, H=6 in, 9 in Thick Gutter Pan	LF					125				225									
340.01112	Vertical Curb & Gutter, Type A, H=6 in Fibermesh Reinf., 10 in Thick Gutter Pan	LF			60	318	79	517	173	79									49	79
340.01150	Single Curb, Type A, MAG Det 222	LF				140	37	135	27	769	574	407							205	592
340.01151	Single Curb, Type A, MAG Det 222 Modified Per COP Det P1256-1	LF								127	105									
340.01160	Single Curb, Type B, MAG Det 222	LF								21	16	21							5	22
340.01171	Mountable Curb & Gutter, Type E, MAG Det 220, 9 in Thick Gutter Pan	LF			350	448	354	484	484	356	105									
340.01211	Concrete Sidewalk, COP Det P1230	SF			666	1,810	2,605	2,169	2,125	3,340	1,898	228							3,001	2,812
340.01212	Concrete Sidewalk, COP Det P1230 Modified, 9 in Thick; Class A Concrete	SF				1,810	3,005	1,756	1,546	1,652	2,930								400	588
340.01217	Concrete Median Nose	SF								120	177	120							55	172
340.01413	Concrete Driveway Entrance, COP Det. P1255-2	SF			705	1,045														
340.01415	Return Type Driveway, COP Det. P1243 Mod. 10 in Thick Fibermesh Reinf. Concrete	SF				4,159	1,281	7,388	3,667	1,288								311	731	1,294
340.01600	Concrete Apron & Valley Gutter, MAG Det 240	SF					1,358													
340.20200	Concrete Bus Bay Shelter/Accessory Pad, COP Det. P1261	SF								625										
340.20500	Bus Bay City of Phoenix, Type 1, Det P 1256-1	Each								1										
345.01100	Adjust Manhole Frame & Cover, MAG Det 422	Each																		
345.01402	Adjust Water Valve to Grade per COP Std Det P1391 & 1391-1	Each																		
350.01000	Remove Conduit, Backfill & Compact	LF																		
350.01112	Remove Pipe, Backfill & Compact, D=12 in	LF																		
350.01115	Remove Pipe, Backfill & Compact, D=15 in	LF																		
350.01118	Remove Pipe, Backfill & Compact, D=18 in	LF																		
350.01124	Remove Pipe, Backfill & Compact, D=24 in	LF																		
350.01200	Remove Pipe, Backfill & Compact, D>=30 in	LF																		
350.01236	Remove Pipe, Backfill & Compact, D=36 in	LF																		
350.01248	Remove Pipe, Backfill & Compact, D=48 in	LF																		
350.01400	Remove Catch Basin	Each																		
350.01401	Remove Concrete Scupper	Each																		
350.01402	Remove Concrete Driveway	SF																		
350.01500	Remove Headwall	Each																		
350.01600	Remove Irrigation Structure	Each																		
350.01602	Remove Irrigation Manhole	Each																		
350.01603	Remove Manhole	Each																		
350.01700	Remove Concrete Ditch Lining	LF																		
350.01703	Remove Riprap	CY																		
350.01800	Remove Concrete Curb & Gutter	LF																		
350.01802	Remove Concrete Valley Gutter	SF																		
350.01850	Remove Concrete Single Curb	LF																		
350.01900	Remove Sidewalk	SF																		
350.02250	Remove Concrete Slab	SF																		

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-24-22
Not Valid Unless Signed

Kimley»Horn

QUANTITY SUMMARY SHEET

SHEET
G03 0F G21

TRACS NO. _____

Plot Time: 2:03:23pm
Plot Date: 6/24/2022
Plotted By: Mark.Flood
K:\phx_roadway\191850000-mc 85\Caddd03-Sheets\RoadwayAZE1019_QS01.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	4	132	

SUMMARY OF ESTIMATED QUANTITIES

ITEM No.	ITEM DESCRIPTION	UNIT	SHEET NUMBER																	
			P29	P31	P33	P35	P37	D03	D04	D05	D06	D07	D08	D09	D10	D11	D12	D13	D14	D15
201.01012	Remove Tree, Diameter > 12 in	Each																		
205.01150	Roadway Excavation	CY																		
220.10150	Riprap, D50=6 in	CY							5	8	4	1	1	6	4	2	6	2	3	3
230.02000	Acrylic Copolymer Surface Course Dust Palliative	SY	712																	
301.01000	Subgrade Preparation	SY	31		24	25														
309.01008	Lime Slurry Stabilization, 8 in Depth	SY	6,398	3,294	5,078	3,146														
309.02000	Lime Hydrated	Ton	88	45	71	43														
310.03000	Aggregate Base Course	Ton	1,431	744	1,165	624														
317.01001	Asphalt Milling, 1.5 in Thick	SY																		
321.01202	Asphalt Concrete Pavement (Superpave 1/2 in Mix, High Traffic)	Ton	386	204	323	171														
321.01302	Asphalt Concrete Pavement (Superpave 3/4 in Mix, High Traffic)	Ton	1,675	885	1,399	741														
329.01000	Bituminous Tack Coat SS-1h, Diluted	Ton	3.82	2.02	3.19	1.69														
331.03300	Microsurfacing Aggregate, Type III	SY	489		729	2,310	638													
340.01110	Vertical Curb & Gutter, Type A, H=6 in, MAG Det 220	LF	363	250	937	356														
340.01111	Vertical Curb & Gutter, Type A, H=6 in, 9 in Thick Gutter Pan	LF																		
340.01112	Vertical Curb & Gutter, Type A, H=6 in Fibermesh Reinf., 10 in Thick Gutter Pan	LF	159		96	219														
340.01150	Single Curb, Type A, MAG Det 222	LF	935	500	249	12														
340.01151	Single Curb, Type A, MAG Det 222 Modified Per COP Det P1256-1	LF	141																	
340.01160	Single Curb, Type B, MAG Det 222	LF	12		14															
340.01171	Mountable Curb & Gutter, Type E, MAG Det 220, 9 in Thick Gutter Pan	LF	303	253	64	298														
340.01211	Concrete Sidewalk, COP Det P1230	SF	3,274	2,256	5,418	3,214														
340.01212	Concrete Sidewalk, COP Det P1230 Modified, 9 in Thick; Class A Concrete	SF	2,404	1,208	436	1,826														
340.01217	Concrete Median Nose	SF	55		63															
340.01413	Concrete Driveway Entrance, COP Det. P1255-2	SF																		
340.01415	Return Type Driveway, COP Det. P1243 Mod. 10 in Thick Fibermesh Reinf. Concrete	SF	2,677		1,551	1,906														
340.01600	Concrete Apron & Valley Gutter, MAG Det 240	SF				1,195														
340.20200	Concrete Bus Bay Shelter/Accessory Pad, COP Det. P1261	SF	625	521																
340.20500	Bus Bay City of Phoenix, Type 1, Det P 1256-1	Each	1	1																
345.01100	Adjust Manhole Frame & Cover, MAG Det 422	Each																		
345.01402	Adjust Water Valve to Grade per COP Std Det P1391 & 1391-1	Each																		
350.01000	Remove Conduit, Backfill & Compact	LF																		
350.01112	Remove Pipe, Backfill & Compact, D=12 in	LF																		
350.01115	Remove Pipe, Backfill & Compact, D=15 in	LF								5	20	5								
350.01118	Remove Pipe, Backfill & Compact, D=18 in	LF							49				5							
350.01124	Remove Pipe, Backfill & Compact, D=24 in	LF																		
350.01200	Remove Pipe, Backfill & Compact, D>=30 in	LF																		
350.01236	Remove Pipe, Backfill & Compact, D=36 in	LF																		
350.01248	Remove Pipe, Backfill & Compact, D=48 in	LF																		
350.01400	Remove Catch Basin	Each								1	1	1	1							
350.01401	Remove Concrete Scupper	Each												1					1	1
350.01402	Remove Concrete Driveway	SF																		
350.01500	Remove Headwall	Each																		
350.01600	Remove Irrigation Structure	Each																		
350.01602	Remove Irrigation Manhole	Each																		
350.01603	Remove Manhole	Each																		
350.01700	Remove Concrete Ditch Lining	LF																		
350.01703	Remove Riprap	CY													14	3	5	11		
350.01800	Remove Concrete Curb & Gutter	LF																		
350.01802	Remove Concrete Valley Gutter	SF																		
350.01850	Remove Concrete Single Curb	LF																		
350.01900	Remove Sidewalk	SF																		
350.02250	Remove Concrete Slab	SF																		

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-24-22
Not Valid Unless Signed

Kimley»Horn

QUANTITY SUMMARY SHEET

SHEET
G04 0F G21

TRACS NO. _____

Plot Time: 2:21:50pm
Plot Date: 6/24/2022
Plotted By: Mark.Flood
K:\phx_roadway\191850000-mc 85\Cadd\03-Sheets\Roadway\AZE1019_QS02.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	5	132	

SUMMARY OF ESTIMATED QUANTITIES

ITEM No.	ITEM DESCRIPTION	UNIT	SHEET NUMBER																	
			LT02	LT03	LT04	LT05	LT06	SG01	SG02	R01	R02	R03	R04	R05	R06	R07	R08	R09	R10	R11
201.01012	Remove Tree, Diameter > 12 in	Each																		
205.01150	Roadway Excavation	CY																		
220.10150	Riprap, D50=6 in	CY																		
230.02000	Acrylic Copolymer Surface Course Dust Palliative	SY																		
301.01000	Subgrade Preparation	SY																		
309.01008	Lime Slurry Stabilization, 8 in Depth	SY																		
309.02000	Lime Hydrated	Ton																		
310.03000	Aggregate Base Course	Ton																		
317.01001	Asphalt Milling, 1.5 in Thick	SY																935		
321.01202	Asphalt Concrete Pavement (Superpave 1/2 in Mix, High Traffic)	Ton																		
321.01302	Asphalt Concrete Pavement (Superpave 3/4 in Mix, High Traffic)	Ton																		
329.01000	Bituminous Tack Coat SS-1h, Diluted	Ton																		
331.03300	Microsurfacing Aggregate, Type III	SY																		
340.01110	Vertical Curb & Gutter, Type A, H=6 in, MAG Det 220	LF																		
340.01111	Vertical Curb & Gutter, Type A, H=6 in, 9 in Thick Gutter Pan	LF																		
340.01112	Vertical Curb & Gutter, Type A, H=6 in Fibermesh Reinf., 10 in Thick Gutter Pan	LF																		
340.01150	Single Curb, Type A, MAG Det 222	LF																		
340.01151	Single Curb, Type A, MAG Det 222 Modified Per COP Det P1256-1	LF																		
340.01160	Single Curb, Type B, MAG Det 222	LF																		
340.01171	Mountable Curb & Gutter, Type E, MAG Det 220, 9 in Thick Gutter Pan	LF																		
340.01211	Concrete Sidewalk, COP Det P1230	SF																		
340.01212	Concrete Sidewalk, COP Det P1230 Modified, 9 in Thick; Class A Concrete	SF																		
340.01217	Concrete Median Nose	SF																		
340.01413	Concrete Driveway Entrance, COP Det. P1255-2	SF																		
340.01415	Return Type Driveway, COP Det. P1243 Mod. 10 in Thick Fibermesh Reinf. Concrete	SF																		
340.01600	Concrete Apron & Valley Gutter, MAG Det 240	SF																		
340.20200	Concrete Bus Bay Shelter/Accessory Pad, COP Det. P1261	SF																		
340.20500	Bus Bay City of Phoenix, Type 1, Det P 1256-1	Each																		
345.01100	Adjust Manhole Frame & Cover, MAG Det 422	Each										1	4	4	1	3	5	1		1
345.01402	Adjust Water Valve to Grade per COP Std Det P1391 & 1391-1	Each											3	4	4	4	4	5		4
350.01000	Remove Conduit, Backfill & Compact	LF															309	1,752		
350.01112	Remove Pipe, Backfill & Compact, D=12 in	LF															94	94		
350.01115	Remove Pipe, Backfill & Compact, D=15 in	LF																		
350.01118	Remove Pipe, Backfill & Compact, D=18 in	LF										50						145		
350.01124	Remove Pipe, Backfill & Compact, D=24 in	LF																15		
350.01200	Remove Pipe, Backfill & Compact, D>=30 in	LF										50	53				117	258		58
350.01236	Remove Pipe, Backfill & Compact, D=36 in	LF															365	79		
350.01248	Remove Pipe, Backfill & Compact, D=48 in	LF																228		
350.01400	Remove Catch Basin	Each																		
350.01401	Remove Concrete Scupper	Each																		
350.01402	Remove Concrete Driveway	SF											2,017	2,356	2,266	1,480	899			915
350.01500	Remove Headwall	Each										4	3							
350.01600	Remove Irrigation Structure	Each																2		
350.01602	Remove Irrigation Manhole	Each																1		1
350.01603	Remove Manhole	Each																2		
350.01700	Remove Concrete Ditch Lining	LF								216	450	438	61							
350.01703	Remove Riprap	CY																		
350.01800	Remove Concrete Curb & Gutter	LF										350	371	378	391	409	407	517		
350.01802	Remove Concrete Valley Gutter	SF												2,423		468	466			
350.01850	Remove Concrete Single Curb	LF											141	139	108	90	139	11		
350.01900	Remove Sidewalk	SF											1,234	1,718	1,010	697	1,688	1,753		
350.02250	Remove Concrete Slab	SF										2,553	6,182	5,545	4,956	4,759	6,881	2,639		

NO.	REVISION	BY	DATE
3			
2			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-24-22
Not Valid Unless Signed

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

QUANTITY SUMMARY SHEET

SHEET
G05 0F G21

TRACS NO. _____

Plot Time: 2:20:08pm
Plot Date: 6/24/2022
Plotted By: Mark.Flood
K:\phx_roadway\191850000-mc 85\Cadd\03-Sheets\Roadway\AZE1019_QS03.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	6	132	

SUMMARY OF ESTIMATED QUANTITIES

ITEM No.	ITEM DESCRIPTION	UNIT	SHEET NUMBER						TOTAL
			R12	R13	R14	R15	R16	R17	
201.01012	Remove Tree, Diameter > 12 in	Each				6	10		16
205.01150	Roadway Excavation	CY							24,126
220.10150	Riprap, D50=6 in	CY							45
230.02000	Acrylic Copolymer Surface Course Dust Palliative	SY							6,465
301.01000	Subgrade Preparation	SY							896
309.01008	Lime Slurry Stabilization, 8 in Depth	SY							66,143
309.02000	Lime Hydrated	Ton							912
310.03000	Aggregate Base Course	Ton							16,178
317.01001	Asphalt Milling, 1.5 in Thick	SY							935
321.01202	Asphalt Concrete Pavement (Superpave 1/2 in Mix, High Traffic)	Ton							4,449
321.01302	Asphalt Concrete Pavement (Superpave 3/4 in Mix, High Traffic)	Ton							18,824
329.01000	Bituminous Tack Coat SS-1h, Diluted	Ton							44.00
331.03300	Microsurfacing Aggregate, Type III	SY							34,401
340.01110	Vertical Curb & Gutter, Type A, H=6 in, MAG Det 220	LF							5,261
340.01111	Vertical Curb & Gutter, Type A, H=6 in, 9 in Thick Gutter Pan	LF							350
340.01112	Vertical Curb & Gutter, Type A, H=6 in Fibermesh Reinf., 10 in Thick Gutter Pan	LF							1,828
340.01150	Single Curb, Type A, MAG Det 222	LF							4,582
340.01151	Single Curb, Type A, MAG Det 222 Modified Per COP Det P1256-1	LF							373
340.01160	Single Curb, Type B, MAG Det 222	LF							111
340.01171	Mountable Curb & Gutter, Type E, MAG Det 220, 9 in Thick Gutter Pan	LF							3,499
340.01211	Concrete Sidewalk, COP Det P1230	SF							34,816
340.01212	Concrete Sidewalk, COP Det P1230 Modified, 9 in Thick; Class A Concrete	SF							19,561
340.01217	Concrete Median Nose	SF							762
340.01413	Concrete Driveway Entrance, COP Det. P1255-2	SF							1,750
340.01415	Return Type Driveway, COP Det. P1243 Mod. 10 in Thick Fibermesh Reinf. Concrete	SF							26,253
340.01600	Concrete Apron & Valley Gutter, MAG Det 240	SF							2,553
340.20200	Concrete Bus Bay Shelter/Accessory Pad, COP Det. P1261	SF							1,771
340.20500	Bus Bay City of Phoenix, Type 1, Det P 1256-1	Each							3
345.01100	Adjust Manhole Frame & Cover, MAG Det 422	Each				1	1		22
345.01402	Adjust Water Valve to Grade per COP Std Det P1391 & 1391-1	Each	7	3	5	3	2	1	49
350.01000	Remove Conduit, Backfill & Compact	LF				825	1,779	748	5,413
350.01112	Remove Pipe, Backfill & Compact, D=12 in	LF							188
350.01115	Remove Pipe, Backfill & Compact, D=15 in	LF							30
350.01118	Remove Pipe, Backfill & Compact, D=18 in	LF							249
350.01124	Remove Pipe, Backfill & Compact, D=24 in	LF							15
350.01200	Remove Pipe, Backfill & Compact, D>=30 in	LF	72						608
350.01236	Remove Pipe, Backfill & Compact, D=36 in	LF							444
350.01248	Remove Pipe, Backfill & Compact, D=48 in	LF			424	250	500	169	1,571
350.01400	Remove Catch Basin	Each							4
350.01401	Remove Concrete Scupper	Each							3
350.01402	Remove Concrete Driveway	SF	967		569		926	5,550	17,945
350.01500	Remove Headwall	Each							7
350.01600	Remove Irrigation Structure	Each							2
350.01602	Remove Irrigation Manhole	Each			1				3
350.01603	Remove Manhole	Each							2
350.01700	Remove Concrete Ditch Lining	LF							1,165
350.01703	Remove Riprap	CY							33
350.01800	Remove Concrete Curb & Gutter	LF				309	418	229	3,779
350.01802	Remove Concrete Valley Gutter	SF							3,357
350.01850	Remove Concrete Single Curb	LF		13	1		145	260	1,047
350.01900	Remove Sidewalk	SF		28	91	1,246	2,405	2,732	14,602
350.02250	Remove Concrete Slab	SF							33,515

NO.	REVISION	BY	DATE
3			
2			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-24-22
Not Valid Unless Signed

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

QUANTITY SUMMARY SHEET

SHEET
G06 0F G21

TRACS NO. _____

Plot Time: 2:18:24pm
Plot Date: 6/24/2022
Plotted By: Mark.Flood
K:\phx_roadway\191850000-mc 85\Caddd\03-Sheets\Roadway\AZE1019_QS04.dwg

SUMMARY OF ESTIMATED QUANTITIES

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	7	132	

ITEM No.	ITEM DESCRIPTION	UNIT	SHEET NUMBER																
			P01	P02	P03	P05	P07	P09	P11	P13	P15	P17	P19	P20	P21	P22	P23	P24	P25	P27
350.02251	Remove Concrete Spillway	SF																	
350.03000	Remove and Salvage Street Light	Each																	
350.04000	Remove and Salvage Traffic Sign Assembly	Each																	
350.05000	Remove Guardrail	LF																	
350.07501	Removal of Pavement	SY																	
350.50003	Remove Traffic Pole Foundation	Each																	
351.11000	Relocate Mailbox, Det 2066	Each																	
351.46000	Relocate Sign	Each																	
351.47000	Relocate Street Light Pole	Each																	
405.01000	Survey Marker, Type B, MAG Det 120	Each				1	1	1	1		1							1		
405.01100	Survey Marker, Type A, MAG Det 120	Each				1					1									
430.01201	Hydro Seeding - Native Seed Mix	Acre								0.07	0.05									
430.42001	Decomposed Granite, 3/4 in Minus, 2 in Thick	SY		1,694	1,298	275	24	31	32	324	56	267						942		141
440.40013	Sch. 40 PVC Irrigation Pipe 6 in	LF			99	165	164	191	130	302	47	92							21	118
460.01000	Remove Paint Stripe	LF																		
460.02000	Remove Thermoplastic Stripe	LF																		
461.01300	Temporary Paint Stripe	LF																		
461.01600	Paint Median Island	LF																		
461.01811	Tape Symbol (Left-Turn Arrow)	Each																		
461.01812	Tape Symbol (Right-Turn Arrow)	Each																		
461.01820	Tape Symbol Bike Lane Marking Set	Each																		
461.01821	Tape Legend ONLY	Each																		
461.01822	Tape Symbol (Lane Reduction Arrows)	Each																		
462.01100	4 in White Thermoplastic Traffic Stripe	LF																		
462.01200	4 in Yellow Thermoplastic Traffic Stripe	LF																		
463.01100	Reflectorized Raised Pavement Marker (Type D, Yellow, 2-Way)	Each																		
463.01200	Reflectorized Raised Pavement Marker (Type G, Clear, 1-Way)	Each																		
463.01300	Reflectorized Raised Pavement Marker (Type H, Yellow, 1-Way)	Each																		
463.01400	Reflectorized Raised Pavement Marker (Type BB, Blue, 2-Way)	Each																		
464.02000	Perforated Sign Post	LF																		
464.02001	Perforated Sign Post Foundation, Det 2058	Each																		
465.01003	Flat Sheet Aluminum Sign Panel, Diamond Grade	SF																		
465.02001	Metro Street Name Sign	Each																		
470.00002	Remove Signal/Pedestrian Indications	Each																		
470.00003	Remove Luminaire Mast Arm and Light Fixture	Each																		
470.00006	Remove Traffic Signal Pole and Mast Arm	Each																		
470.00009	Remove Pedestrian Push Button Station w/ Sign	Each																		
470.00011	Remove Pull Box	Each																		
470.00012	Remove and Salvage Video Detection System	Each																		
470.00013	Remove and Salvage Street Name Sign	Each																		
470.00017	Remove and Salvage Wireless Radio	Each																		
471.60045	No. 5 Pull Box	Each																		
471.61112	Sch. 40 PVC Elec. Cond. 2 in with 1/4 in Nyl PR #8 Bare Coper Wire Trench	LF																		
471.61211	Sch. 40 PVC Elec. Cond. 2 1/2 in Splice	Each																		
471.61212	Sch. 40 PVC Elec. Cond. 2 1/2 in with 1/4 in Nyl PR #8 Bare Copper Wire Trench	LF																		
471.61213	Sch. 40 PVC Elec. Cond. 2 1/2 in with 1/4 in Nyl PR #8 Bare Copper Wire Bore	LF																		
471.61312	Sch. 40 PVC Elec. Cond. 3 in with 1/4 in Nyl PR #8 Bare Copper Wire Trench	LF																		
472.61100	Pole Foundation, Type A, Det 4720	Each																		
472.61400	Pole Foundation, Type K or R, Det 4721	Each																		
472.61500	Pole Foundation, Type Push Button, Det 4720	Each																		
473.73001	Pedestrian Push Button with Sign Install Only	Each																		
473.80401	Video Image Detection System, 4 Approaches Install Only	Each																		

NO.	REVISION	BY	DATE
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO. 75511
MARK FLOOD
Date Signed 06-24-22
ARIZONA, U.S.A.

Kimley»Horn

QUANTITY SUMMARY SHEET

SHEET G07 0F G21

TRACS NO. _____

Plot Time: 2:16:35pm
Plot Date: 6/24/2022
Plotted By: Mark.Flood
K:\phx_roadway\191850000-mc 85\Cadd\03-Sheets\Roadway\AZE1019_QS05.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	8	132	

SUMMARY OF ESTIMATED QUANTITIES

ITEM No.	ITEM DESCRIPTION	UNIT	SHEET NUMBER																
			P29	P31	P33	P35	P37	D03	D04	D05	D06	D07	D08	D09	D10	D11	D12	D13	D14	D15
350.02251	Remove Concrete Spillway	SF												175					371	104
350.03000	Remove and Salvage Street Light	Each																		
350.04000	Remove and Salvage Traffic Sign Assembly	Each																		
350.05000	Remove Guardrail	LF																		
350.07501	Removal of Pavement	SY																		
350.50003	Remove Traffic Pole Foundation	Each																		
351.11000	Relocate Mailbox, Det 2066	Each																		
351.46000	Relocate Sign	Each																		
351.47000	Relocate Street Light Pole	Each																		
405.01000	Survey Marker, Type B, MAG Det 120	Each	1		1		1													
405.01100	Survey Marker, Type A, MAG Det 120	Each																		
430.01201	Hydro Seeding - Native Seed Mix	Acre		0.09	0.12	0.09														
430.42001	Decomposed Granite, 3/4 in Minus, 2 in Thick	SY	225	154	914	341														
440.40013	Sch. 40 PVC Irrigation Pipe 6 in	LF	129	7	195	227														
460.01000	Remove Paint Stripe	LF																		
460.02000	Remove Thermoplastic Stripe	LF																		
461.01300	Temporary Paint Stripe	LF																		
461.01600	Paint Median Island	LF																		
461.01811	Tape Symbol (Left-Turn Arrow)	Each																		
461.01812	Tape Symbol (Right-Turn Arrow)	Each																		
461.01820	Tape Symbol Bike Lane Marking Set	Each																		
461.01821	Tape Legend ONLY	Each																		
461.01822	Tape Symbol (Lane Reduction Arrows)	Each																		
462.01100	4 in White Thermoplastic Traffic Stripe	LF																		
462.01200	4 in Yellow Thermoplastic Traffic Stripe	LF																		
463.01100	Reflectorized Raised Pavement Marker (Type D, Yellow, 2-Way)	Each																		
463.01200	Reflectorized Raised Pavement Marker (Type G, Clear, 1-Way)	Each																		
463.01300	Reflectorized Raised Pavement Marker (Type H, Yellow, 1-Way)	Each																		
463.01400	Reflectorized Raised Pavement Marker (Type BB, Blue, 2-Way)	Each																		
464.02000	Perforated Sign Post	LF																		
464.02001	Perforated Sign Post Foundation, Det 2058	Each																		
465.01003	Flat Sheet Aluminum Sign Panel, Diamond Grade	SF																		
465.02001	Metro Street Name Sign	Each																		
470.00002	Remove Signal/Pedestrian Indications	Each																		
470.00003	Remove Luminaire Mast Arm and Light Fixture	Each																		
470.00006	Remove Traffic Signal Pole and Mast Arm	Each																		
470.00009	Remove Pedestrian Push Button Station w/ Sign	Each																		
470.00011	Remove Pull Box	Each																		
470.00012	Remove and Salvage Video Detection System	Each																		
470.00013	Remove and Salvage Street Name Sign	Each																		
470.00017	Remove and Salvage Wireless Radio	Each																		
471.60045	No. 5 Pull Box	Each																		
471.61112	Sch. 40 PVC Elec. Cond. 2 in with 1/4 in Nyl PR #8 Bare Coper Wire Trench	LF																		
471.61211	Sch. 40 PVC Elec. Cond. 2 1/2 in Splice	Each																		
471.61212	Sch. 40 PVC Elec. Cond. 2 1/2 in with 1/4 in Nyl PR #8 Bare Copper Wire Trench	LF																		
471.61213	Sch. 40 PVC Elec. Cond. 2 1/2 in with 1/4 in Nyl PR #8 Bare Copper Wire Bore	LF																		
471.61312	Sch. 40 PVC Elec. Cond. 3 in with 1/4 in Nyl PR #8 Bare Copper Wire Trench	LF																		
472.61100	Pole Foundation, Type A, Det 4720	Each																		
472.61400	Pole Foundation, Type K or R, Det 4721	Each																		
472.61500	Pole Foundation, Type Push Button, Det 4720	Each																		
473.73001	Pedestrian Push Button with Sign Install Only	Each																		
473.80401	Video Image Detection System, 4 Approaches Install Only	Each																		

NO.	REVISION	BY	DATE
3			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-24-22
ARIZONA, U.S.A.

Kimley»Horn

QUANTITY SUMMARY SHEET

SHEET
G08 0F G21

TRACS NO. _____

Plot Time: 2:14:55pm
Plot Date: 6/24/2022
Plotted By: Mark.Flood
K:\phx_roadway\191850000-mc 85\Cadd\03-Sheets\Roadway\AZE1019_QS06.dwg

SUMMARY OF ESTIMATED QUANTITIES

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	9	132	

ITEM No.	ITEM DESCRIPTION	UNIT	SHEET NUMBER																	
			LT02	LT03	LT04	LT05	LT06	SG01	SG02	R01	R02	R03	R04	R05	R06	R07	R08	R09	R10	R11
350.02251	Remove Concrete Spillway	SF																		
350.03000	Remove and Salvage Street Light	Each		1			5													
350.04000	Remove and Salvage Traffic Sign Assembly	Each																		
350.05000	Remove Guardrail	LF								181	450	509	79							
350.07501	Removal of Pavement	SY											7	96		92	6			
350.50003	Remove Traffic Pole Foundation	Each						8												
351.11000	Relocate Mailbox, Det 2066	Each																		
351.46000	Relocate Sign	Each																		
351.47000	Relocate Street Light Pole	Each		1																
405.01000	Survey Marker, Type B, MAG Det 120	Each																		
405.01100	Survey Marker, Type A, MAG Det 120	Each																		
430.01201	Hydro Seeding - Native Seed Mix	Acre																		
430.42001	Decomposed Granite, 3/4 in Minus, 2 in Thick	SY																		
440.40013	Sch. 40 PVC Irrigation Pipe 6 in	LF																		
460.01000	Remove Paint Stripe	LF																		
460.02000	Remove Thermoplastic Stripe	LF																		
461.01300	Temporary Paint Stripe	LF																		
461.01600	Paint Median Island	LF																		
461.01811	Tape Symbol (Left-Turn Arrow)	Each																		
461.01812	Tape Symbol (Right-Turn Arrow)	Each																		
461.01820	Tape Symbol Bike Lane Marking Set	Each																		
461.01821	Tape Legend ONLY	Each																		
461.01822	Tape Symbol (Lane Reduction Arrows)	Each																		
462.01100	4 in White Thermoplastic Traffic Stripe	LF																		
462.01200	4 in Yellow Thermoplastic Traffic Stripe	LF																		
463.01100	Reflectorized Raised Pavement Marker (Type D, Yellow, 2-Way)	Each																		
463.01200	Reflectorized Raised Pavement Marker (Type G, Clear, 1-Way)	Each																		
463.01300	Reflectorized Raised Pavement Marker (Type H, Yellow, 1-Way)	Each																		
463.01400	Reflectorized Raised Pavement Marker (Type BB, Blue, 2-Way)	Each																		
464.02000	Perforated Sign Post	LF																		
464.02001	Perforated Sign Post Foundation, Det 2058	Each																		
465.01003	Flat Sheet Aluminum Sign Panel, Diamond Grade	SF																		
465.02001	Metro Street Name Sign	Each																		
470.00002	Remove Signal/Pedestrian Indications	Each						22												
470.00003	Remove Luminaire Mast Arm and Light Fixture	Each						2												
470.00006	Remove Traffic Signal Pole and Mast Arm	Each						8												
470.00009	Remove Pedestrian Push Button Station w/ Sign	Each						8												
470.00011	Remove Pull Box	Each						8												
470.00012	Remove and Salvage Video Detection System	Each						1												
470.00013	Remove and Salvage Street Name Sign	Each						3												
470.00017	Remove and Salvage Wireless Radio	Each						1												
471.60045	No. 5 Pull Box	Each	7	20	7	9	7													
471.61112	Sch. 40 PVC Elec. Cond. 2 in with 1/4 in Nyl PR #8 Bare Coper Wire Trench	LF							75											
471.61211	Sch. 40 PVC Elec. Cond. 2 1/2 in Splice	Each	2	6	1	9	9													
471.61212	Sch. 40 PVC Elec. Cond. 2 1/2 in with 1/4 in Nyl PR #8 Bare Copper Wire Trench	LF	1,100	3,000	1,310	850	1,800													
471.61213	Sch. 40 PVC Elec. Cond. 2 1/2 in with 1/4 in Nyl PR #8 Bare Copper Wire Bore	LF				100														
471.61312	Sch. 40 PVC Elec. Cond. 3 in with 1/4 in Nyl PR #8 Bare Copper Wire Trench	LF							370											
472.61100	Pole Foundation, Type A, Det 4720	Each							4											
472.61400	Pole Foundation, Type K or R, Det 4721	Each							3											
472.61500	Pole Foundation, Type Push Button, Det 4720	Each							1											
473.73001	Pedestrian Push Button with Sign Install Only	Each							8											
473.80401	Video Image Detection System, 4 Approaches Install Only	Each							1											

Note: Lighting quantities per sheet do not account for materials that have already been procured.

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-24-22
ARIZONA, U.S.A.

Kimley»Horn

QUANTITY SUMMARY SHEET

SHEET
G09 0F G21

TRACS NO. _____

Plot Time: 2:13:13pm
Plot Date: 6/24/2022
Plotted By: Mark.Flood
K:\phx_roadway\191850000-mc 85\Cadd\03-Sheets\Roadway\AZE1019_QS07.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	10	132	

SUMMARY OF ESTIMATED QUANTITIES

ITEM No.	ITEM DESCRIPTION	UNIT	SHEET NUMBER						TOTAL
			R12	R13	R14	R15	R16	R17	
350.02251	Remove Concrete Spillway	SF							650
350.03000	Remove and Salvage Street Light	Each							6
350.04000	Remove and Salvage Traffic Sign Assembly	Each							7
350.05000	Remove Guardrail	LF							1,219
350.07501	Removal of Pavement	SY		31	49		153	76	510
350.50003	Remove Traffic Pole Foundation	Each							8
351.11000	Relocate Mailbox, Det 2066	Each						1	1
351.46000	Relocate Sign	Each							9
351.47000	Relocate Street Light Pole	Each							1
405.01000	Survey Marker, Type B, MAG Det 120	Each							9
405.01100	Survey Marker, Type A, MAG Det 120	Each							2
430.01201	Hydro Seeding - Native Seed Mix	Acre							0.42
430.42001	Decomposed Granite, 3/4 in Minus, 2 in Thick	SY							6,718
440.40013	Sch. 40 PVC Irrigation Pipe 6 in	LF							1,887
460.01000	Remove Paint Stripe	LF							99,357
460.02000	Remove Thermoplastic Stripe	LF							860
461.01300	Temporary Paint Stripe	LF							62,894
461.01600	Paint Median Island	LF							2
461.01811	Tape Symbol (Left-Turn Arrow)	Each							2
461.01812	Tape Symbol (Right-Turn Arrow)	Each							2
461.01820	Tape Symbol Bike Lane Marking Set	Each							1
461.01821	Tape Legend ONLY	Each							2
461.01822	Tape Symbol (Lane Reduction Arrows)	Each							2
462.01100	4 in White Thermoplastic Traffic Stripe	LF							3,100
462.01200	4 in Yellow Thermoplastic Traffic Stripe	LF							3,005
463.01100	Reflectorized Raised Pavement Marker (Type D, Yellow, 2-Way)	Each							73
463.01200	Reflectorized Raised Pavement Marker (Type G, Clear, 1-Way)	Each							106
463.01300	Reflectorized Raised Pavement Marker (Type H, Yellow, 1-Way)	Each							86
463.01400	Reflectorized Raised Pavement Marker (Type BB, Blue, 2-Way)	Each							3
464.02000	Perforated Sign Post	LF							368
464.02001	Perforated Sign Post Foundation, Det 2058	Each							29
465.01003	Flat Sheet Aluminum Sign Panel, Diamond Grade	SF							285
465.02001	Metro Street Name Sign	Each							4
470.00002	Remove Signal/Pedestrian Indications	Each							22
470.00003	Remove Luminaire Mast Arm and Light Fixture	Each							2
470.00006	Remove Traffic Signal Pole and Mast Arm	Each							8
470.00009	Remove Pedestrian Push Button Station w/ Sign	Each							8
470.00011	Remove Pull Box	Each							8
470.00012	Remove and Salvage Video Detection System	Each							1
470.00013	Remove and Salvage Street Name Sign	Each							3
470.00017	Remove and Salvage Wireless Radio	Each							1
471.60045	No. 5 Pull Box	Each							50
471.61112	Sch. 40 PVC Elec. Cond. 2 in with 1/4 in Nyl PR #8 Bare Coper Wire Trench	LF							75
471.61211	Sch. 40 PVC Elec. Cond. 2 1/2 in Splice	Each							27
471.61212	Sch. 40 PVC Elec. Cond. 2 1/2 in with 1/4 in Nyl PR #8 Bare Copper Wire Trench	LF							8,060
471.61213	Sch. 40 PVC Elec. Cond. 2 1/2 in with 1/4 in Nyl PR #8 Bare Copper Wire Bore	LF							100
471.61312	Sch. 40 PVC Elec. Cond. 3 in with 1/4 in Nyl PR #8 Bare Copper Wire Trench	LF							370
472.61100	Pole Foundation, Type A, Det 4720	Each							4
472.61400	Pole Foundation, Type K or R, Det 4721	Each							3
472.61500	Pole Foundation, Type Push Button, Det 4720	Each							1
473.73001	Pedestrian Push Button with Sign Install Only	Each							8
473.80401	Video Image Detection System, 4 Approaches Install Only	Each							1

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-24-22
ARIZONA, U.S.A.

Kimley»Horn

QUANTITY SUMMARY SHEET

SHEET
G10 0F G21

TRACS NO. _____

Plot Time: 2:11:46pm
Plot Date: 6/24/2022
Plotted By: Mark.Flood
K:\phx_roadway\191850000-mc 85\Cadd\03-Sheets\Roadway\AZE1019_QS08.dwg

SUMMARY OF ESTIMATED QUANTITIES

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	11	132	

ITEM No.	ITEM DESCRIPTION	UNIT	SHEET NUMBER																	
			P01	P02	P03	P05	P07	P09	P11	P13	P15	P17	P19	P20	P21	P22	P23	P24	P25	P27
474.60117	Type A Signal Pole 16 ft Install Only	Each																		
474.60650	Type K Signal Pole with 45 ft Mast Arm	Each																		
474.60761	Type R Signal Pole with 50 ft Mast Arm Install Only	Each																		
474.60771	Type R Signal Pole with 55 ft Mast Arm Install Only	Each																		
474.60781	Street Light 9 ft Pole and 11 ft-6 in Mast Arm Per SRP Specialty Pole Detail A	Each																		
474.60801	Type PB, Push Button Pole Install Only	Each																		
474.70600	Standard COP Arterial Street Light Pole	Each																		
474.70602	8ft x 8ft Mast Arm	Each																		
474.70603	20in x 6ft Mast Arm	Each																		
476.12111	Signal Indication Type F Signal Face Type XI Side Mount Asm Det 4775 Install	Each																		
476.12121	Signal Indication Type F Signal Face Type II Plumbizer Mount Asm Det 4778 Install	Each																		
476.12311	Signal Indication Type Q Signal Face Type XI Side Mount Asm Det 4775 Install	Each																		
476.12321	Signal Indication Type Q Signal Face Type II Plumbizer Mount Asm Det 4778 Install	Each																		
476.62011	Pedestrian Signal Indication Type XI Side Mount Asm Det 4775 Install Only	Each																		
477.61201	Luminaire, Mast Arm 20 ft Install Only	Each																		
477.70060	LED Luminaire Major Roadway, Horizontal Mount	Each																		
478.01001	Electrical Conductors (#12)	LF																		
505.06401	Concrete Scupper, MAG Det 206, S/W=4 ft, 1-4 ft Curb Opening	Each																		
505.06505	Concrete Scupper, Detail DB, S/W=6 ft, 2-2 ft 6 in Curb Opening	Each																		
505.06506	Concrete Scupper, Detail DB, S/W=6 ft, 3-2 ft 6 in Curb Opening	Each																		
505.06511	Concrete Scupper Spillway, MAG Det 206, 1-4 ft Curb Opening	LF																		
505.06514	Concrete Scupper Spillway, MAG Det 206, 2-2 ft 6 in Curb Opening	LF																		
505.06515	Concrete Scupper Spillway, MAG Det 206, 3-2 ft 6 in Curb Opening	LF																		
505.12300	Catch Basin, Flush with Apron, ADOT C-15.80	Each																		
505.13624	Catch Basin PHX Std P-1569-1, Type M-2, L=3 ft	Each																		
505.13715	Catch Basin PHX Std P-1569-2, Type M-1, L=6 ft	Each																		
520.01035	Safety Rail, Height 3 ft - 6 in MAG Det 145	LF																		
523.14118	Headwall, MAG Det 501-4, 18 in Pipe	Each																		
523.14124	Headwall, MAG Det 501-4, 24 in Pipe	Each																		
523.30118	Access Barrier, 18 in PHX Det P1563	Each																		
523.30124	Access Barrier, 24 in PHX Det P1563	Each																		
523.30125	Trash Rack, 24 in MAG Det 502	Each																		
618.00915	Concrete Pipe Collar for 15 in Pipe, MAG Det 505	Each																		
618.00918	Concrete Pipe Collar for 18 in Pipe, MAG Det 505	Each																		
618.20515	15 in RGRCP, Class V	LF																		
618.20518	18 in RGRCP, Class V	LF																		
621.10240	24 in CMP, 18 Gauge, 0.052 in thickness, Galvanized	LF																		
725.20000	Portland Cement ASTM C-150, Type II	Ton		3	31	51	53	52	54	60	51	3						13	36	36

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-24-22
ARIZONA, U.S.A.

Kimley»Horn

QUANTITY SUMMARY SHEET

SHEET
G11 0F G21

TRACS NO. _____

Plot Time: 2:10:00pm
Plot Date: 6/24/2022
Plotted By: Mark.Flood
K:\phx_roadway\191850000-mc 85\Cadd\03-Sheets\Roadway\AZE1019_QS09.dwg

SUMMARY OF ESTIMATED QUANTITIES

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	12	132	

ITEM No.	ITEM DESCRIPTION	UNIT	SHEET NUMBER																	
			P29	P31	P33	P35	P37	D03	D04	D05	D06	D07	D08	D09	D10	D11	D12	D13	D14	D15
474.60117	Type A Signal Pole 16 ft Install Only	Each																		
474.60650	Type K Signal Pole with 45 ft Mast Arm	Each																		
474.60761	Type R Signal Pole with 50 ft Mast Arm Install Only	Each																		
474.60771	Type R Signal Pole with 55 ft Mast Arm Install Only	Each																		
474.60781	Street Light 9 ft Pole and 11 ft-6 in Mast Arm Per SRP Specialty Pole Detail A	Each																		
474.60801	Type PB, Push Button Pole Install Only	Each																		
474.70600	Standard COP Arterial Street Light Pole	Each																		
474.70602	8ft x 8ft Mast Arm	Each																		
474.70603	20in x 6ft Mast Arm	Each																		
476.12111	Signal Indication Type F Signal Face Type XI Side Mount Asm Det 4775 Install	Each																		
476.12121	Signal Indication Type F Signal Face Type II Plumbizer Mount Asm Det 4778 Install	Each																		
476.12311	Signal Indication Type Q Signal Face Type XI Side Mount Asm Det 4775 Install	Each																		
476.12321	Signal Indication Type Q Signal Face Type II Plumbizer Mount Asm Det 4778 Install	Each																		
476.62011	Pedestrian Signal Indication Type XI Side Mount Asm Det 4775 Install Only	Each																		
477.61201	Luminaire, Mast Arm 20 ft Install Only	Each																		
477.70060	LED Luminaire Major Roadway, Horizontal Mount	Each																		
478.01001	Electrical Conductors (#12)	LF																		
505.06401	Concrete Scupper, MAG Det 206, S/W=4 ft, 1-4 ft Curb Opening	Each							1	2	1		2	2	1	1	2	1		1
505.06505	Concrete Scupper, Detail DB, S/W=6 ft, 2-2 ft 6 in Curb Opening	Each													1					
505.06506	Concrete Scupper, Detail DB, S/W=6 ft, 3-2 ft 6 in Curb Opening	Each																	1	
505.06511	Concrete Scupper Spillway, MAG Det 206, 1-4 ft Curb Opening	LF							40	111	46		79	87	63	20	72	35		26
505.06514	Concrete Scupper Spillway, MAG Det 206, 2-2 ft 6 in Curb Opening	LF													13					
505.06515	Concrete Scupper Spillway, MAG Det 206, 3-2 ft 6 in Curb Opening	LF																	58	
505.12300	Catch Basin, Flush with Apron, ADOT C-15.80	Each													1					
505.13624	Catch Basin PHX Std P-1569-1, Type M-2, L=3 ft	Each									1	1	1							
505.13715	Catch Basin PHX Std P-1569-2, Type M-1, L=6 ft	Each								1										
520.01035	Safety Rail, Height 3 ft - 6 in MAG Det 145	LF							13	26	13		26	26	56	13	26	13	20	13
523.14118	Headwall, MAG Det 501-4, 18 in Pipe	Each													1					
523.14124	Headwall, MAG Det 501-4, 24 in Pipe	Each													2					
523.30118	Access Barrier, 18 in PHX Det P1563	Each													1					
523.30124	Access Barrier, 24 in PHX Det P1563	Each													1					
523.30125	Trash Rack, 24 in MAG Det 502	Each													1					
618.00915	Concrete Pipe Collar for 15 in Pipe, MAG Det 505	Each								1	1	1								
618.00918	Concrete Pipe Collar for 18 in Pipe, MAG Det 505	Each											1							
618.20515	15 in RGRCP, Class V	LF								5	5	5								
618.20518	18 in RGRCP, Class V	LF											5		62					
621.10240	24 in CMP, 18 Gauge, 0.052 in thickness, Galvanized	LF													14					
725.20000	Portland Cement ASTM C-150, Type II	Ton	59	30	47	29														

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-24-22 ARIZONA U.S.A.

Kimley»Horn

QUANTITY SUMMARY SHEET

SHEET G12 0F G21

TRACS NO. _____

Plot Time: 2:08:20pm
Plot Date: 6/24/2022
Plotted By: Mark.Flood
K:\phx_roadway\191850000-mc 85\Caddd\03-Sheets\Roadway\AZE1019_QS10.dwg

SUMMARY OF ESTIMATED QUANTITIES

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	13	132	

ITEM No.	ITEM DESCRIPTION	UNIT	SHEET NUMBER																	
			LT02	LT03	LT04	LT05	LT06	SG01	SG02	R01	R02	R03	R04	R05	R06	R07	R08	R09	R10	R11
474.60117	Type A Signal Pole 16 ft Install Only	Each							4											
474.60650	Type K Signal Pole with 45 ft Mast Arm	Each							1											
474.60761	Type R Signal Pole with 50 ft Mast Arm Install Only	Each							1											
474.60771	Type R Signal Pole with 55 ft Mast Arm Install Only	Each							1											
474.60781	Street Light 9 ft Pole and 11 ft-6 in Mast Arm Per SRP Specialty Pole Detail A	Each	4	10	4	1	2													
474.60801	Type PB, Push Button Pole Install Only	Each							1											
474.70600	Standard COP Arterial Street Light Pole	Each	3	10	3	8	9													
474.70602	8ft x 8ft Mast Arm	Each	2	6	2	6	8													
474.70603	20in x 6ft Mast Arm	Each	1	4	1	2	1													
476.12111	Signal Indication Type F Signal Face Type XI Side Mount Asm Det 4775 Install	Each							3											
476.12121	Signal Indication Type F Signal Face Type II Plumbizer Mount Asm Det 4778 Install	Each							6											
476.12311	Signal Indication Type Q Signal Face Type XI Side Mount Asm Det 4775 Install	Each							4											
476.12321	Signal Indication Type Q Signal Face Type II Plumbizer Mount Asm Det 4778 Install	Each							3											
476.62011	Pedestrian Signal Indication Type XI Side Mount Asm Det 4775 Install Only	Each							8											
477.61201	Luminaire, Mast Arm 20 ft Install Only	Each							2											
477.70060	LED Luminaire Major Roadway, Horizontal Mount	Each	7	21	9	9	11													
478.01001	Electrical Conductors (#12)	LF	350	1,000	350	450	350													
505.06401	Concrete Scupper, MAG Det 206, S/W=4 ft, 1-4 ft Curb Opening	Each																		
505.06505	Concrete Scupper, Detail DB, S/W=6 ft, 2-2 ft 6 in Curb Opening	Each																		
505.06506	Concrete Scupper, Detail DB, S/W=6 ft, 3-2 ft 6 in Curb Opening	Each																		
505.06511	Concrete Scupper Spillway, MAG Det 206, 1-4 ft Curb Opening	LF																		
505.06514	Concrete Scupper Spillway, MAG Det 206, 2-2 ft 6 in Curb Opening	LF																		
505.06515	Concrete Scupper Spillway, MAG Det 206, 3-2 ft 6 in Curb Opening	LF																		
505.12300	Catch Basin, Flush with Apron, ADOT C-15.80	Each																		
505.13624	Catch Basin PHX Std P-1569-1, Type M-2, L=3 ft	Each																		
505.13715	Catch Basin PHX Std P-1569-2, Type M-1, L=6 ft	Each																		
520.01035	Safety Rail, Height 3 ft - 6 in MAG Det 145	LF																		
523.14118	Headwall, MAG Det 501-4, 18 in Pipe	Each																		
523.14124	Headwall, MAG Det 501-4, 24 in Pipe	Each																		
523.30118	Access Barrier, 18 in PHX Det P1563	Each																		
523.30124	Access Barrier, 24 in PHX Det P1563	Each																		
523.30125	Trash Rack, 24 in MAG Det 502	Each																		
618.00915	Concrete Pipe Collar for 15 in Pipe, MAG Det 505	Each																		
618.00918	Concrete Pipe Collar for 18 in Pipe, MAG Det 505	Each																		
618.20515	15 in RGRCP, Class V	LF																		
618.20518	18 in RGRCP, Class V	LF																		
621.10240	24 in CMP, 18 Gauge, 0.052 in thickness, Galvanized	LF																		
725.20000	Portland Cement ASTM C-150, Type II	Ton																		

Note: Lighting quantities per sheet do not account for materials that have already been procured.

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-24-22 ARIZONA, U.S.A.

Kimley»Horn

QUANTITY SUMMARY SHEET

SHEET G13 OF G21

TRACS NO. _____

Plot Time: 2:06:54pm
Plot Date: 6/24/2022
Plotted By: Mark.Flood
K:\phx_roadway\191850000-mc 85\Cadd\03-Sheets\Roadway\AZE1019_QS11.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	14	132	

SUMMARY OF ESTIMATED QUANTITIES

ITEM No.	ITEM DESCRIPTION	UNIT	SHEET NUMBER						TOTAL
			R12	R13	R14	R15	R16	R17	
474.60117	Type A Signal Pole 16 ft Install Only	Each							4
474.60650	Type K Signal Pole with 45 ft Mast Arm	Each							1
474.60761	Type R Signal Pole with 50 ft Mast Arm Install Only	Each							1
474.60771	Type R Signal Pole with 55 ft Mast Arm Install Only	Each							1
474.60781	Street Light 9 ft Pole and 11 ft-6 in Mast Arm Per SRP Specialty Pole Detail A	Each							21
474.60801	Type PB, Push Button Pole Install Only	Each							1
474.70600	Standard COP Arterial Street Light Pole	Each							33
474.70602	8ft x 8ft Mast Arm	Each							24
474.70603	20in x 6ft Mast Arm	Each							9
476.12111	Signal Indication Type F Signal Face Type XI Side Mount Asm Det 4775 Install	Each							3
476.12121	Signal Indication Type F Signal Face Type II Plumbizer Mount Asm Det 4778 Install	Each							6
476.12311	Signal Indication Type Q Signal Face Type XI Side Mount Asm Det 4775 Install	Each							4
476.12321	Signal Indication Type Q Signal Face Type II Plumbizer Mount Asm Det 4778 Install	Each							3
476.62011	Pedestrian Signal Indication Type XI Side Mount Asm Det 4775 Install Only	Each							8
477.61201	Luminaire, Mast Arm 20 ft Install Only	Each							2
477.70060	LED Luminaire Major Roadway, Horizontal Mount	Each							57
478.01001	Electrical Conductors (#12)	LF							2,500
505.06401	Concrete Scupper, MAG Det 206, S/W=4 ft, 1-4 ft Curb Opening	Each							14
505.06505	Concrete Scupper, Detail DB, S/W=6 ft, 2-2 ft 6 in Curb Opening	Each							1
505.06506	Concrete Scupper, Detail DB, S/W=6 ft, 3-2 ft 6 in Curb Opening	Each							1
505.06511	Concrete Scupper Spillway, MAG Det 206, 1-4 ft Curb Opening	LF							579
505.06514	Concrete Scupper Spillway, MAG Det 206, 2-2 ft 6 in Curb Opening	LF							13
505.06515	Concrete Scupper Spillway, MAG Det 206, 3-2 ft 6 in Curb Opening	LF							58
505.12300	Catch Basin, Flush with Apron, ADOT C-15.80	Each							1
505.13624	Catch Basin PHX Std P-1569-1, Type M-2, L=3 ft	Each							3
505.13715	Catch Basin PHX Std P-1569-2, Type M-1, L=6 ft	Each							1
520.01035	Safety Rail, Height 3 ft - 6 in MAG Det 145	LF							245
523.14118	Headwall, MAG Det 501-4, 18 in Pipe	Each							1
523.14124	Headwall, MAG Det 501-4, 24 in Pipe	Each							2
523.30118	Access Barrier, 18 in PHX Det P1563	Each							1
523.30124	Access Barrier, 24 in PHX Det P1563	Each							1
523.30125	Trash Rack, 24 in MAG Det 502	Each							1
618.00915	Concrete Pipe Collar for 15 in Pipe, MAG Det 505	Each							3
618.00918	Concrete Pipe Collar for 18 in Pipe, MAG Det 505	Each							1
618.20515	15 in RGRCP, Class V	LF							15
618.20518	18 in RGRCP, Class V	LF							67
621.10240	24 in CMP, 18 Gauge, 0.052 in thickness, Galvanized	LF							14
725.20000	Portland Cement ASTM C-150, Type II	Ton							608

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-24-22
ARIZONA, U.S.A.

Kimley»Horn

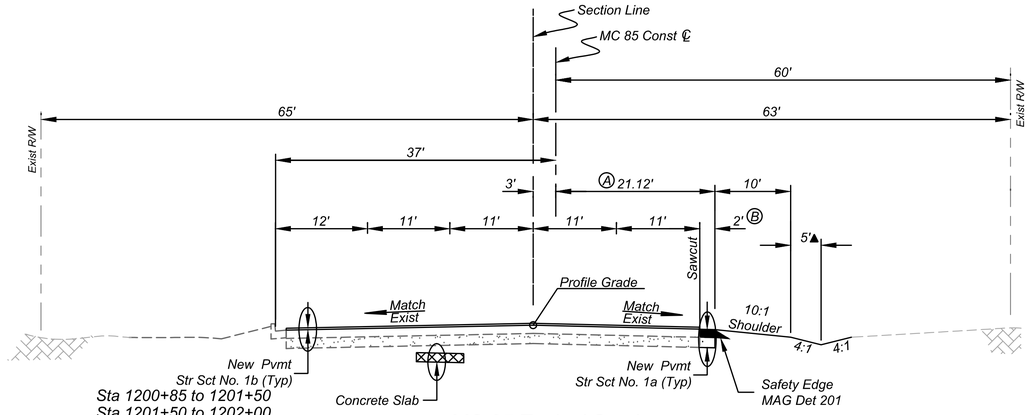
QUANTITY SUMMARY SHEET

SHEET
G14 0F G21

TRACS NO. _____

Plot Time: 2:05:11pm
Plot Date: 6/24/2022
Plotted By: Mark.Flood
K:\phx_roadway\191850000-mc 85\Caddd03-Sheets\Roadway\AZE1019_QS12.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	15	132	



MC 85 Typical Section

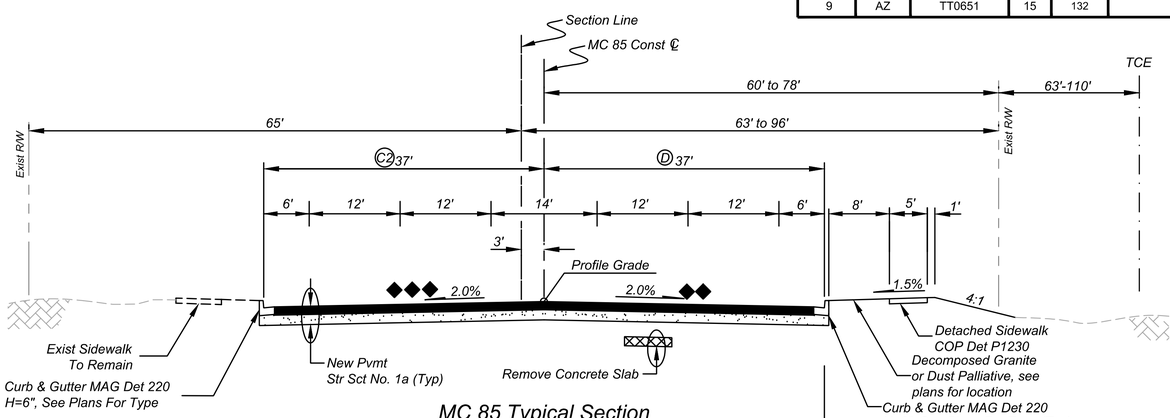
NTS

Sta 1199+93.86 to 1206+50.00

Micro Seal Only Sta 1199+93.86 to 1200+85.00

▲ 10'	Sta 1200+85 to 1201+50
10'-9'	Sta 1201+50 to 1202+00
9'	Sta 1202+00 to 1202+50
9' to 8.5'	Sta 1202+50 to 1203+00
8.5'	Sta 1203+00 to 1203+50
8.5' to 8'	Sta 1203+50 to 1204+00
8' to 6.5'	Sta 1204+00 to 1204+50
6.5' to 6'	Sta 1204+50 to 1205+00
6'	Sta 1205+00 to 1205+50
6' to 5'	Sta 1205+50 to 1206+00
5'	Sta 1206+00 to 1206+50

Ⓐ 21.12' to 21.24'	Sta 1199+93.86 to 1200+85.00
21.24' to 33.69'	Sta 1200+85.00 to 1206+50.00
Ⓑ 2' to 14.88'	Sta 1200+85.00 to 1206+50.00



MC 85 Typical Section

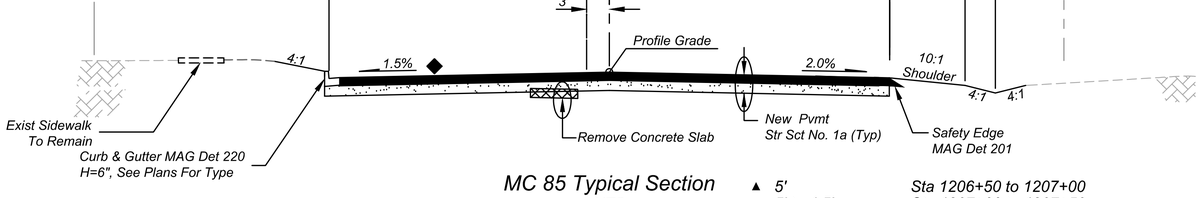
NTS

Sta 1208+00.00 to 1231+08.79

Ⓒ2	37'	Sta 1208+00.00 to 1216+36.00
	37' to 49'	Sta 1216+36.00 to 1217+64.84
	49'	Sta 1217+64.84 to 1219+10.00
	49' to 37'	Sta 1219+10.00 to 1220+60.00
	37'	Sta 1220+60.00 to 1223+33.69
	37' to 51.09'	Sta 1223+33.69 to 1231+08.79
Ⓓ	37'	Sta 1208+00.00 to 1223+33.69
	37' to 51.09'	Sta 1223+33.69 to 1231+08.79
Ⓔ	0' to 12'	Sta 1210+85.03 to 1211+90.03
	12'	Sta 1211+90.03 to 1212+71.39
Ⓕ	0' to 12'	Sta 1220+62.83 to 1222+12.37
	12'	Sta 1222+12.37 to 1223+33.59
	12' to 12.46'	Sta 1223+33.59 to 1223+59.05
	2.42%	Sta 1220+62.38 to 1223+33.59
◆◆◆◆	2.42% to 2.10%	Sta 1223+33.59 to 1223+50.00
	2.10% to 1.81%	Sta 1223+50.00 to 1223+59.05

Sta 1220+62.38 to 1223+59.05

◆ 2.00% to 1.83%	Sta 1210+85.03 to 1211+27.21
1.83% to 1.60%	Sta 1211+27.21 to 1211+90.00
1.60%	Sta 1211+90.00 to 1212+71.39
◆◆ 2.00% to 1.30%	Sta 1223+59.05 to 1224+02.18
1.30% to 1.05%	Sta 1224+02.18 to 1224+25.00
1.05% to 1.30%	Sta 1224+25.00 to 1224+47.58
1.30% to 2.00%	Sta 1224+47.58 to 1224+94.67
◆◆◆ 1.80% to 2.00%	Sta 1208+00.00 to 1210+00.00

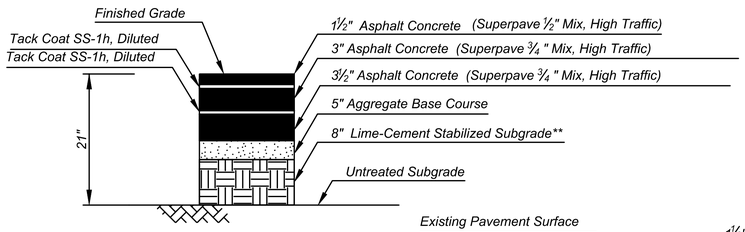


MC 85 Typical Section

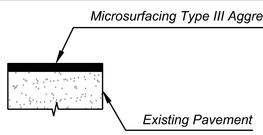
NTS

Sta 1206+50.00 to 1208+00.00

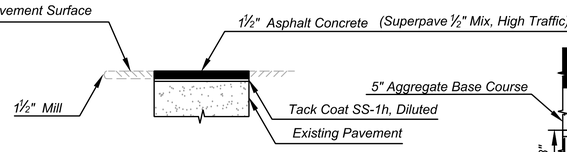
▲	5'	Sta 1206+50 to 1207+00
	5' to 4.5'	Sta 1207+00 to 1207+50
	4.5' to 4'	Sta 1207+50 to 1208+00
Ⓒ1	33.69' to 37'	Sta 1206+50 to 1208+00
◆	1.25% to 1.80%	Sta 1206+50 to 1208+00



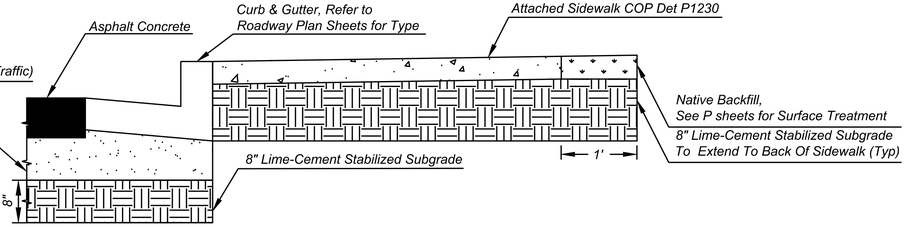
Pavement Structural Section No. 1a



Pavement Structural Section No. 1b

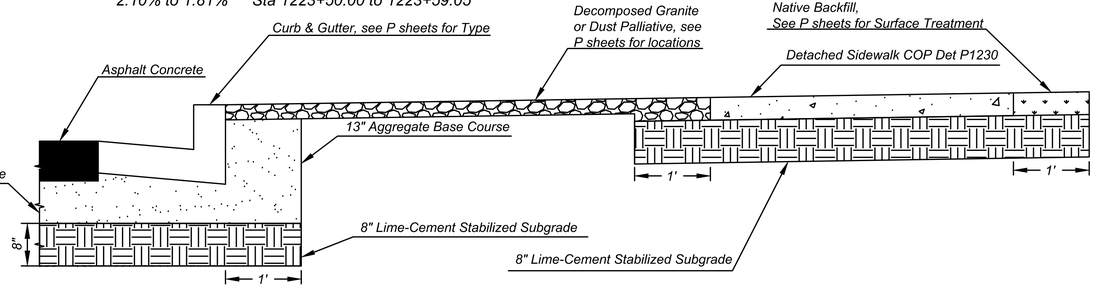


Pavement Structural Section No. 1c



Detail For Structural Sections 1a - Attached Sidewalk

NTS



Detail For Structural Sections 1a - Detached Sidewalk

NTS

****** *Lime-Cement Stabilized Subgrade only to be used on Mainline Roadways and to the Back of Sidewalk (MC 85, 94th Ave, and 91st Ave) See Plans for Locations.*

General Note:

1. *Roadway cross slope varies between 1% and 3%*
2. *Tack Coat shall be Emulsified Asphalt for Tack Coat type ss-1h*

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/30/22 ARIZONA U.S.A.

Kimley»Horn

TYPICAL SECTIONS

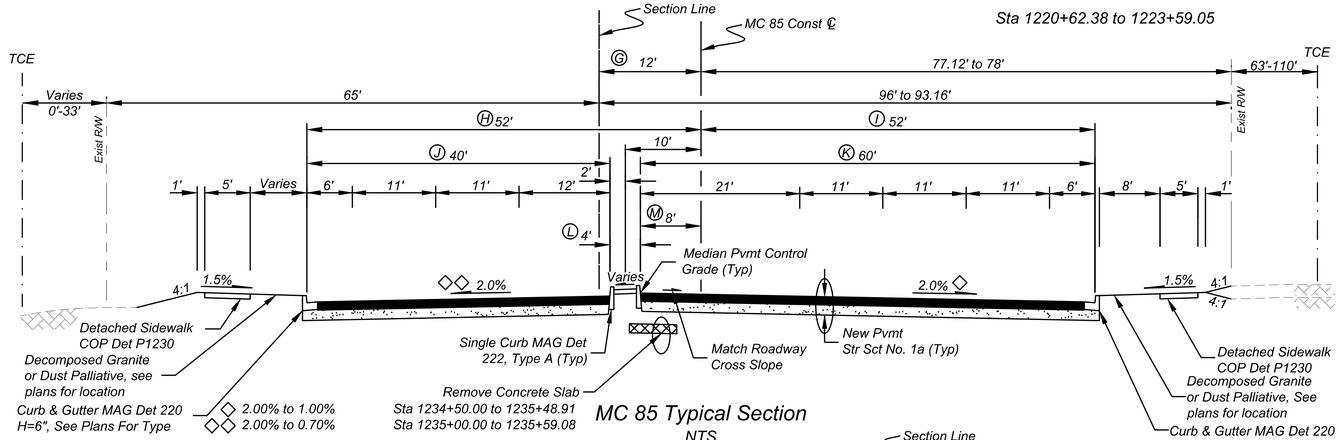
SHEET G15 OF G21

TRACS NO. _____

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or visit Arizona811.com

Plot Time: 7:27:23pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cad\03-Sheets\Roadway\AZE1019_TYP01.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	16	132	



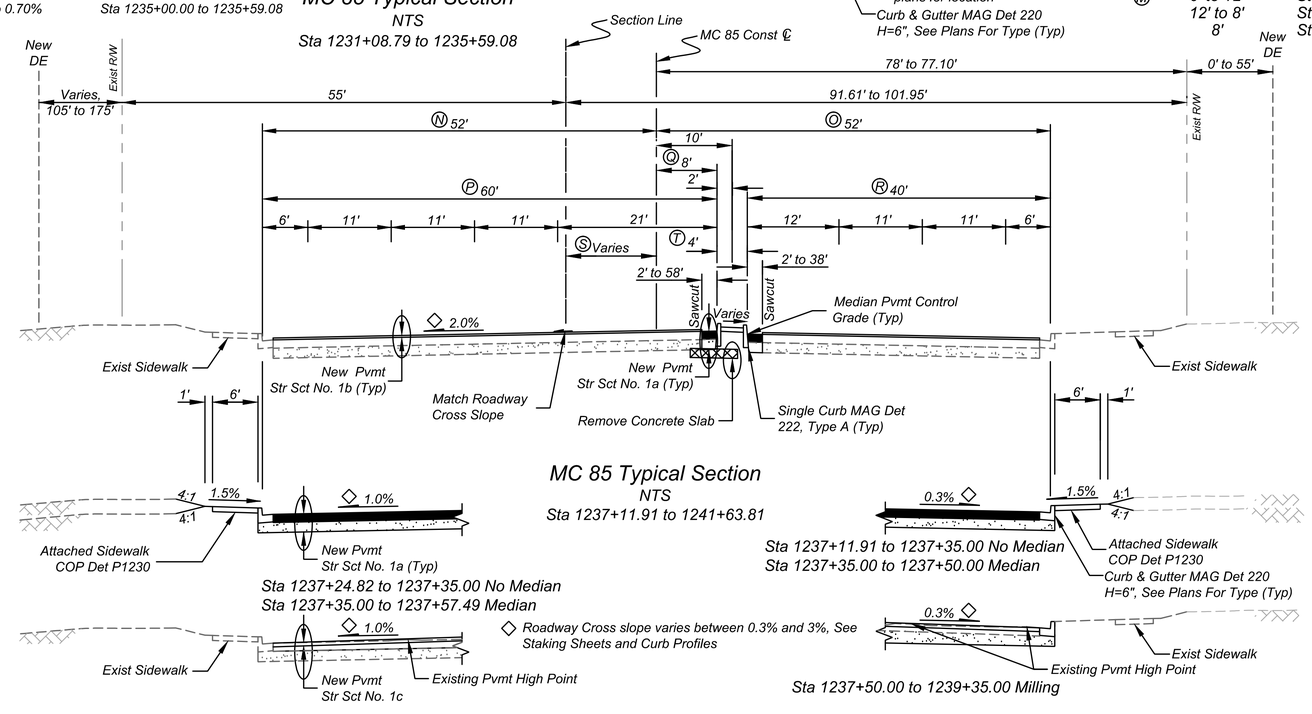
Sta 1220+62.38 to 1223+59.05

MC 85 Typical Section

NTS

Sta 1231+08.79 to 1235+59.08

Ⓖ	Varies	Sta 1231+08.79 to 1235+59.08
Ⓗ	51.09' to 52'	Sta 1231+08.79 to 1231+58.69
	52'	Sta 1231+58.69 to 1235+59.08
Ⓘ	51.09' to 52'	Sta 1231+08.79 to 1231+58.69
	52'	Sta 1231+58.69 to 1235+48.91
Ⓙ	51.09' to 40'	Sta 1231+08.79 to 1231+58.69
	40'	Sta 1231+58.69 to 1235+48.91
Ⓚ	51.09' to 40'	Sta 1231+08.79 to 1232+58.69
	40' to 60'	Sta 1231+58.69 to 1232+98.17
	60'	Sta 1232+98.71 to 1235+48.91
Ⓛ	0' to 24'	Sta 1231+08.79 to 1231+58.69
	24' to 4'	Sta 1231+58.69 to 1232+98.71
	4'	Sta 1232+98.71 to 1235+48.81
Ⓜ	0' to 12'	Sta 1231+08.79 to 1231+58.69
	12' to 8'	Sta 1231+58.69 to 1232+98.71
	8'	Sta 1232+98.71 to 1235+48.81



MC 85 Typical Section

NTS

Sta 1237+11.91 to 1241+63.81

Sta 1237+24.82 to 1237+35.00 No Median
Sta 1237+35.00 to 1237+57.49 Median

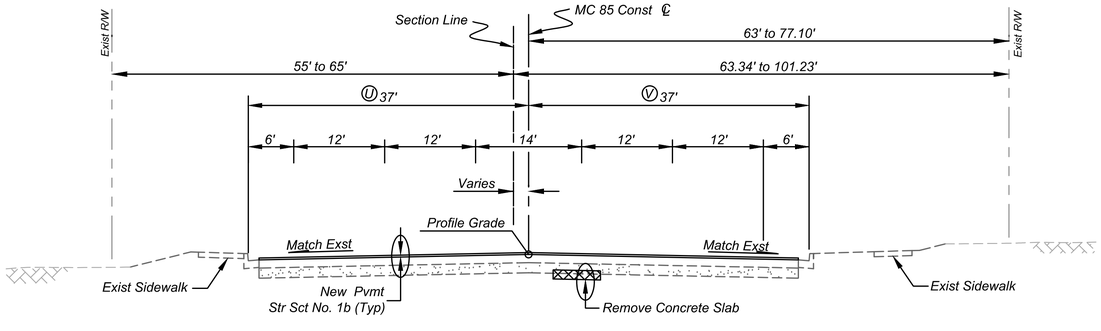
Sta 1237+11.91 to 1237+35.00 No Median
Sta 1237+35.00 to 1237+50.00 Median

◇ Roadway Cross slope varies between 0.3% and 3%, See Staking Sheets and Curb Profiles

Sta 1237+57.49 to 1237+90.00 Milling

Sta 1237+50.00 to 1239+35.00 Milling

Ⓝ	52'	Sta 1237+24.82 to 1237+57.49
Ⓞ	52' to 51.98'	Sta 1237+11.91 to 1237+35.28
Ⓟ	60'	Sta 1237+37.00 to 1239+73.69
	60' to 39.89'	Sta 1239+73.69 to 1241+13.76
	39.89' to 50.95'	Sta 1241+13.76 to 1241+63.81
Ⓠ	8'	Sta 1237+35.00 to 1239+73.69
	8' to 12'	Sta 1239+73.69 to 1241+13.76
	12' to 0'	Sta 1241+13.76 to 1241+63.81
Ⓡ	39.89' to 39.77'	Sta 1237+37.00 to 1241+13.76
	39.77' to 46.07'	Sta 1241+13.76 to 1241+60.34
Ⓢ	14.22' to 24.14'	Sta 1237+35.00 to 1241+63.81
Ⓣ	4'	Sta 1237+37.00 to 1239+73.69
	4' to 24'	Sta 1239+73.69 to 1241+13.76
	24' to 0'	Sta 1241+13.76 to 1241+63.81



MC 85 Typical Section

NTS

Sta 1241+63.81 to 1261+45.00

Ⓤ	51.03' to 37'	Sta 1241+63.81 to 1249+38.76
	37' to 37.13'	Sta 1249+38.76 to 1261+45.00
Ⓥ	50.65' to 41.46'	Sta 1241+63.81 to 1246+93.28
	41.46' to 50.73'	Sta 1246+93.28 to 1248+43.71
	50.73' to 49'	Sta 1248+43.71 to 1250+19.36
	49' to 37'	Sta 1250+19.36 to 1251+14.61
	37'	Sta 1251+14.61 to 1258+34.94
	37' to 49'	Sta 1258+34.94 to 1259+84.94
	49' to 48.86'	Sta 1259+84.94 to 1261+45.00

General Note:
1. Roadway Cross slope varies between 1% and 3%

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-22-22

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

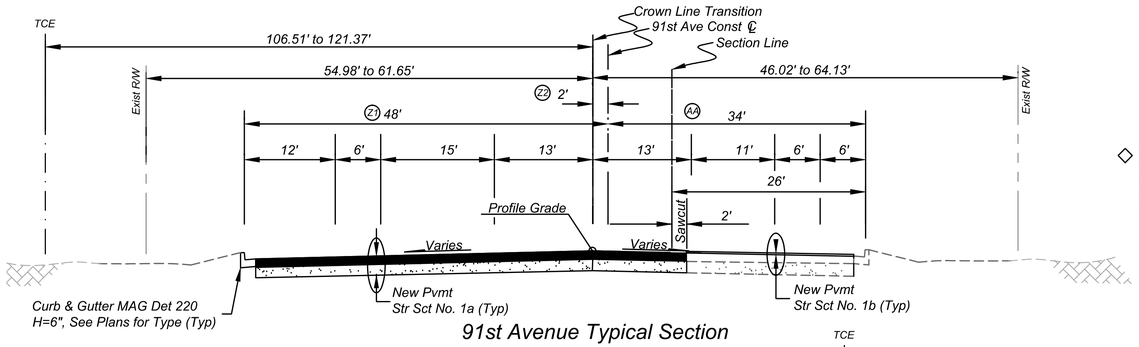
TYPICAL SECTIONS

SHEET G16 OF G21

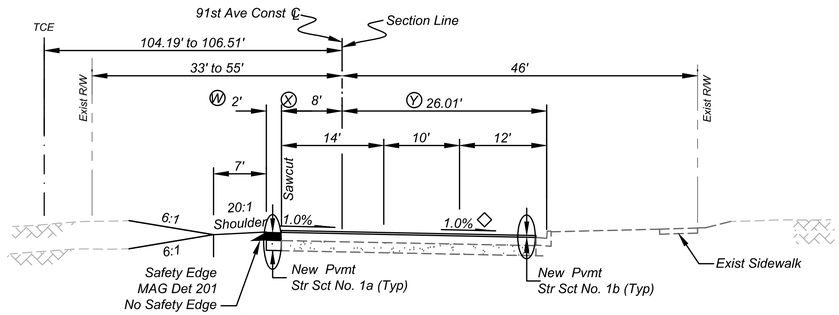
TRACS NO. _____

Plot Time: 7:28:52pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_TYP02.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	17	132	

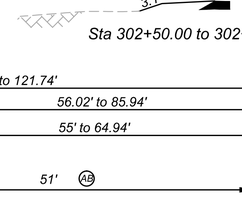


91st Avenue Typical Section
Area Between Medians
Sta 303+41.00 to 307+35.70
Sta 308+74.20 to 309+69.47
Sta 312+69.78 to 313+80.33



◇ Roadway Cross slope varies between 1% and 3%, See Staking Sheets and Curb Profiles

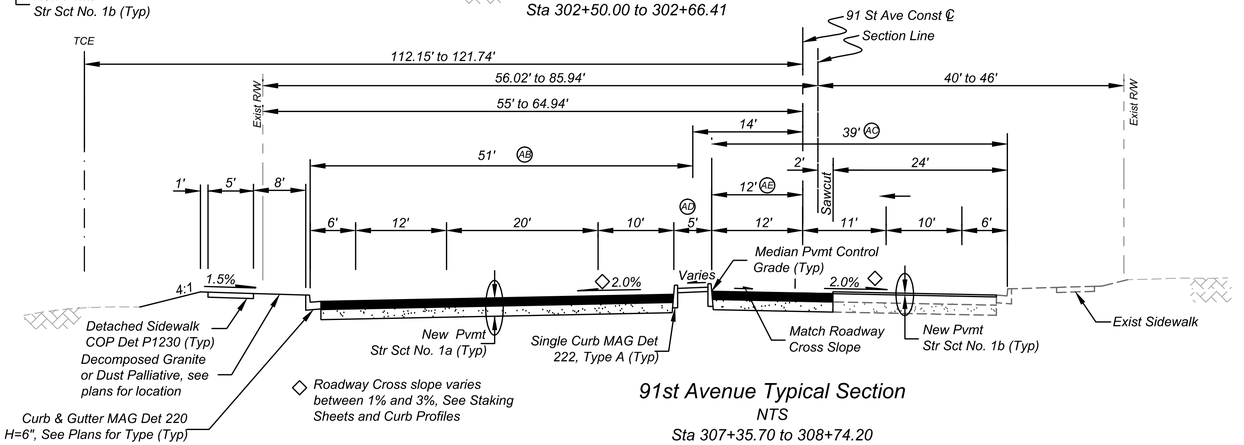
91st Avenue Typical Section
NTS
Sta 296+82.64 to 303+41.00
Micro Seal Only Sta 296+82.64 to 299+40.78



Sta 302+50.00 to 302+66.41

W	2.00' to 37.61'	Sta 299+40.78 to 302+50.00
	46.80' to 56.96'	Sta 302+50.00 to 303+41.00
X	8.00' to 7.24' Lt	Sta 299+40.78 to 302+50.00
	1.96' to 2.00' Rt	Sta 302+50.00 to 303+41.00
Y	26.01' to 26.36'	Sta 299+40.78 to 303+41.00

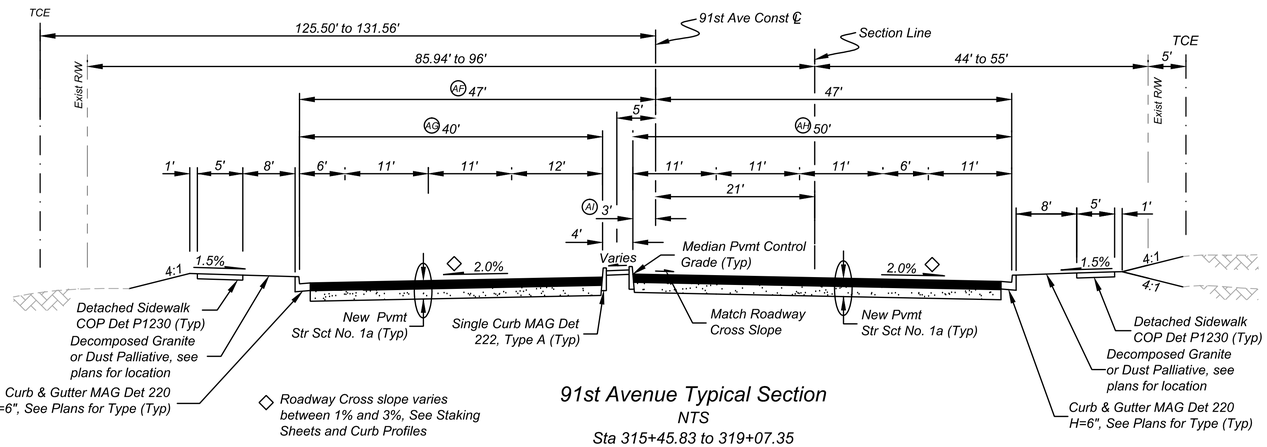
Z1	59.21' to 60.94'	Sta 303+41.00 to 303+96.12
	60.94' to 60.77'	Sta 303+96.12 to 304+96.81
	60.77' to 48.52'	Sta 304+96.81 to 306+46.78
	48.52' to 48.37'	Sta 306+46.78 to 307+35.70
	48.13' to 47.97'	Sta 308+74.20 to 309+69.47
	47.47' to 47.28'	Sta 312+69.78 to 313+80.33
Z2	0' to 12.58'	Sta 306+46.76 to 307+35.70
	11.20' to 1.25'	Sta 308+74.20 to 309+69.47
	2.75' Lt to 2.85' Rt	Sta 312+69.78 to 313+80.33
AA	26.43' to 32.97'	Sta 303+41.00 to 307+35.70
	35.35' to 37.03'	Sta 308+74.20 to 309+69.47
	42.08' to 44.20'	Sta 312+69.78 to 313+80.33
AB	35.79' to 36.94'	Sta 307+35.70 to 308+74.20
	46.73' to 44.71'	Sta 309+69.47 to 312+69.78
	50.13' to 60.67'	Sta 313+80.33 to 315+45.83
AC	45.55' to 46.55'	Sta 307+35.70 to 308+74.20
	38.28' to 44.84'	Sta 309+69.47 to 312+69.78
	41.35' to 40.00'	Sta 313+80.33 to 315+45.83
AD	5'	Sta 307+38.17 to 308+71.73
	5'	Sta 309+71.94 to 311+19.49
	5' to 14'	Sta 311+19.49 to 312+19.85
	14' to 0'	Sta 312+19.85 to 312+69.78
	5'	Sta 313+82.85 to 315+30.35
	5' to 5.33'	Sta 315+30.35 to 315+45.83



◇ Roadway Cross slope varies between 1% and 3%, See Staking Sheets and Curb Profiles

91st Avenue Typical Section
NTS
Sta 307+35.70 to 308+74.20
Sta 309+69.47 to 312+69.78
Sta 313+80.33 to 315+45.83

AE	12.58' Lt to 11.20' Lt	Sta 307+35.70 to 308+74.20
	1.25' Lt to 2.75' Lt	Sta 309+69.47 to 312+69.78
	2.85' Rt to 1.67' Rt	Sta 313+80.33 to 315+45.80



◇ Roadway Cross slope varies between 1% and 3%, See Staking Sheets and Curb Profiles

91st Avenue Typical Section
NTS
Sta 315+45.83 to 319+07.35

AF	59' to 59.90'	Sta 315+45.83 to 316+02.84
	59.90' to 47'	Sta 316+02.84 to 317+10.33
	47'	Sta 317+10.33 to 318+95.33
AG	60.69' to 40'	Sta 315+45.83 to 317+10.33
	40'	Sta 317+10.33 to 318+95.33
AH	40' to 50'	Sta 315+45.83 to 316+78.03
	50'	Sta 316+78.03 to 318+95.33
AI	7' Rt to 3' Lt	Sta 315+45.83 to 316+78.03
	3'	Sta 316+78.03 to 318+95.33

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-22-22 ARIZONA U.S.A.

Kimley»Horn

TYPICAL SECTIONS

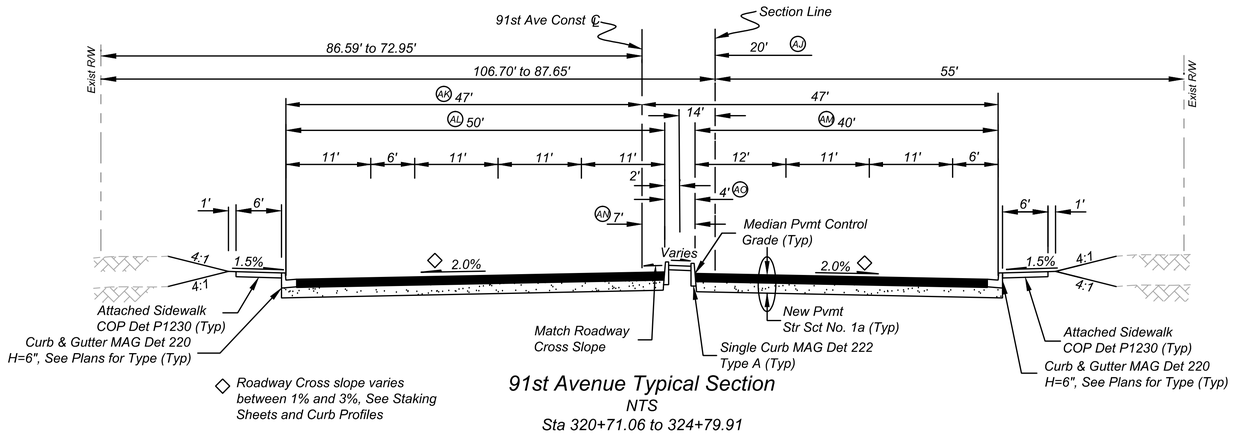
SHEET G17 0F G21

TRACS NO. _____

Dial 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

Plot Time: 7:30:04pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_TYP03.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	18	132	



91st Avenue Typical Section

NTS

Sta 320+71.06 to 324+79.91

(AJ) 20.02' to 14.69' Sta 320+78.41 to 324+79.91

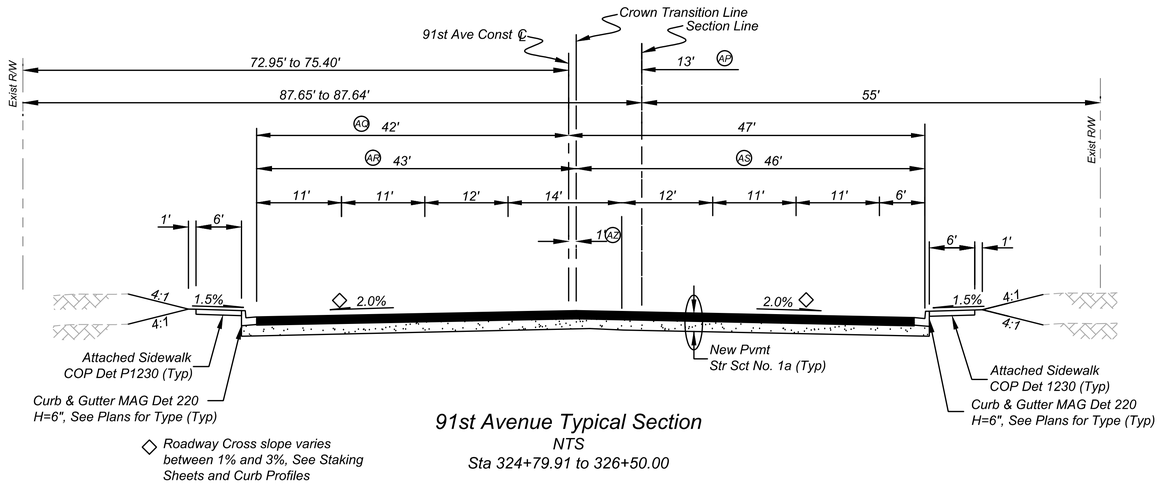
(AK) 47' Sta 320+71.06 to 324+29.91
47' to 44.82' Sta 324+29.91 to 324+79.91

(AL) 50' Sta 320+80.41 to 323+30.41
50' to 40' Sta 323+30.41 to 324+29.91
40' to 44.75' Sta 324+29.91 to 324+79.91

(AM) 40' Sta 320+80.41 to 324+29.92
40' to 47' Sta 324+29.92 to 324+79.91

(AN) 7' Sta 320+80.41 to 324+29.92
7' to 0' Sta 324+29.92 to 324+79.91

(AC) 4' Sta 320+80.41 to 323+30.41
4' to 14' Sta 323+30.41 to 324+29.91
14' to 0' Sta 324+29.91 to 324+79.91



91st Avenue Typical Section

NTS

Sta 324+79.91 to 326+50.00

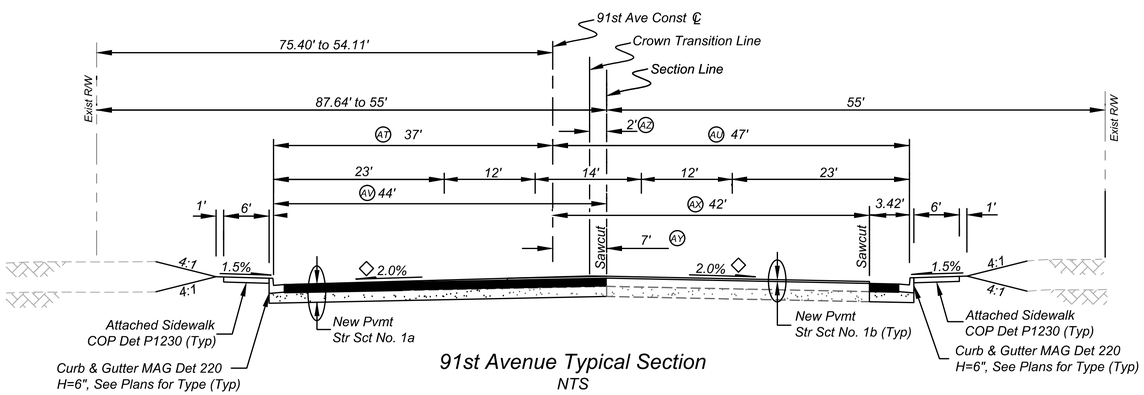
(AP) 14.69' to 12.24' Sta 324+79.91 to 326+50.00

(AQ) 44.82' to 37.40' Sta 324+79.91 to 326+50.00

(AR) 44.75' to 39.28' Sta 324+79.91 to 326+50.00

(AS) 47.07' to 45.12' Sta 324+79.91 to 326+50.00

(AZ) 0.07' Lt to 1.88' Rt Sta 324+79.91 to 326+50.00



91st Avenue Typical Section

NTS

Lt Sta 326+50.00 to 333+29.03

Rt Sta 326+50.00 to 331+47.62

Micro Seal Only Sta 333+29.03 to 334+35.00

(AT) 37.40' to 31.72' Sta 326+50.00 to 333+29.03

(AU) 47' Sta 326+50.00 to 329+09.47
47' to 42.67' Sta 329+09.47 to 331+47.62

(AV) 49.61' to 39.64' Sta 326+50.00 to 333+50.00
27.78' to 27.44' Sta 330+50.00 to 333+29.03

(AX) 43.58' Sta 326+50.00 to 329+09.44
43.58' to 39.25' Sta 329+09.44 to 331+47.62

(AY) 12.20' Rt to 6.44' Rt Sta 326+50.00 to 330+50.00
5.42' Lt to 4.28' Rt Sta 330+50.00 to 333+29.03

(AZ) 1.88' to 6.44' Sta 326+50.00 to 330+50.00

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06/22
ARIZONA, U.S.A.

Kimley»Horn

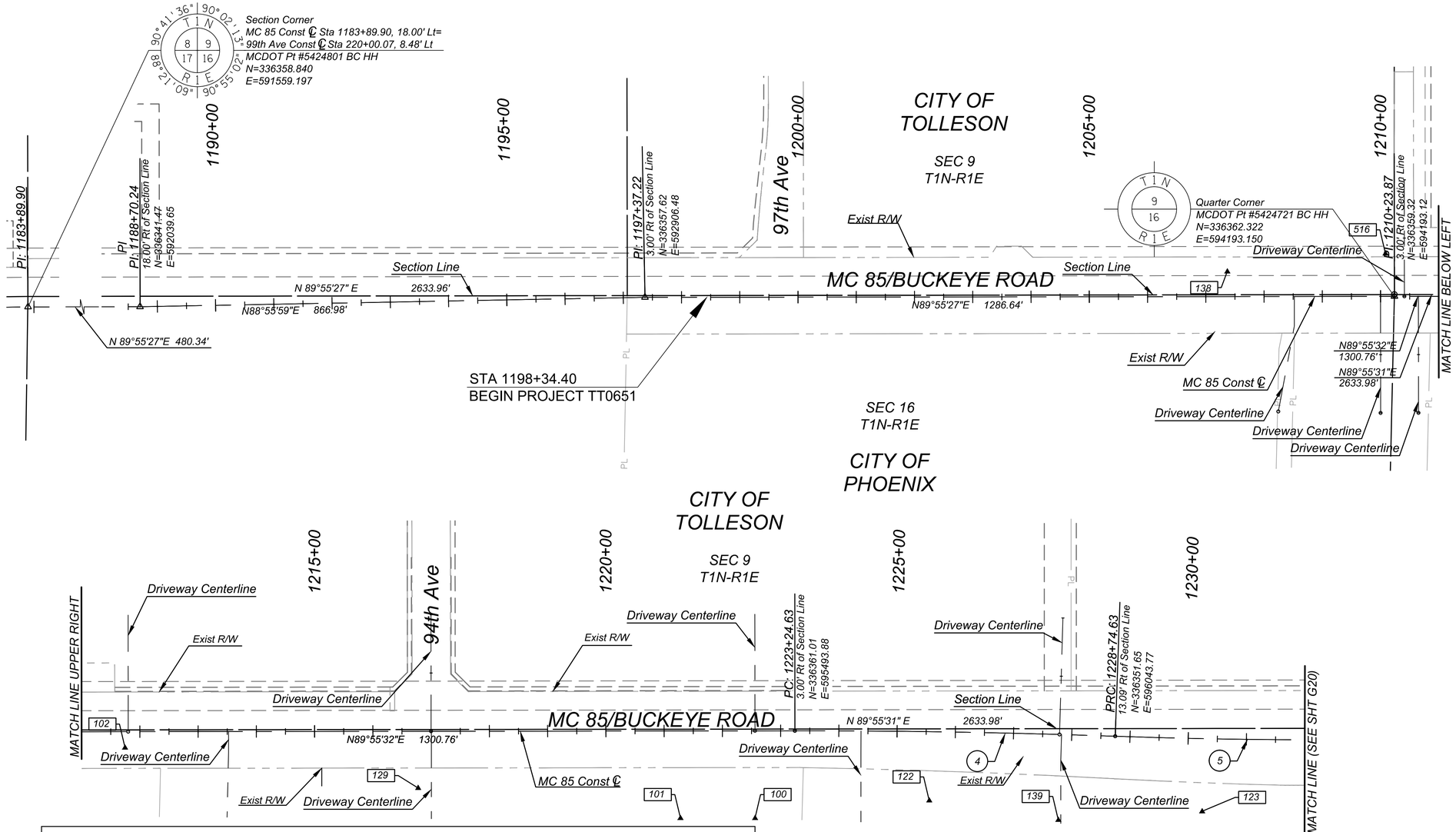
TYPICAL SECTIONS

SHEET G18 OF G21

TRACS NO. _____

Plot Time: 7:31:16pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\119850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_TYP04.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	19	132	



CONTROL NOTES:
ALL COORDINATES LISTED ARE 1983 (1992 EPOCH) STATE PLANE GROUND COORDINATES ARIZONA CENTRAL ZONE, STANDARD TRANSVERSE MERCATOR PROJECTION, WITH A SCALE OF ORIGIN POINT OF X=0.0000 Y=0.0000, USING A GRID ADJUSTMENT FACTOR OF 1.00013095. THE NORTHING WAS THEN TRUNCATE BY SUBTRACTING -550,000 FROM EACH VALUE.THESE COORDINATES CAN BE UTILIZED AS GROUND DATUM. TO CONVERT BACK TO GRID COORDINATES ADD +550,000 TO EACH NORTHING AND THEN DIVIDE EACH VALUE BY 1.00013095.
UNITS = INTERNATIONAL FEET
1 FOOT = 0.3048 METER EXACTLY
ALL BEARINGS ARE GRID BEARINGS, DISTANCES ARE GROUND DISTANCES AND COORDINATES ARE GROUND COORDINATES.
THE FIELD PORTION OF THIS SURVEY WAS PERFORMED DURING THE MONTH OF SEPTEMBER 2010.
GPS PROCEDURES WERE USED TO DERIVE THE HORIZONTAL\ VALUES AND DIFFERENTIAL LEVELS WERE USED TO DERIVE THE ELEVATIONS FOR THE CONTROL POINTS.
THE BASIS OF COORDINATES FOR THIS PROJECT ARE FROM NATIONAL GEODETIC SURVEY DATASHEETS PUBLISHED FOR THE FOLLOWING MONUMENTS:

HORIZONTAL CONTROL

NAME	1BB1
MONUMENT TYPE	METAL ROD
NAD 83(92) LAT	33°25'35.61904"N
NAD 83(92) LONG	112°15'23.78006"W
GROUND NORTHING	333014.5373
GROUND EASTING	596365.6582

ALL ELEVATIONS ARE NGVD29 (CITY OF PHOENIX) ELEVATIONS BASED ON THE FOLLOWING PHOENIX BENCHMARKS.
ADOT Aluminum Cap in Handhole at the intersection of 91st & MC-85
NGVD29 ELEV = 1000.90'

▲ BM 105
SE Cor Sec 9, T1N R1E, ADOT AC HH
MC85/Buckeye Rd Sta1236+58.62, 10.48' Lt
91st Ave 320+00.00, 21.0' Rt
N=336365.748, E=596827.083
Elev=1000.90' NGVD29 Datum

Benchmark Details

TBM#	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
138	MC 85	1207+37.16	43.52' Lt	336402.47	593906.36	997.75'	SET 2" MC AC
516	MC 85	1210+08.66	73.86' Lt	336433.16	594177.82	998.80'	FND 2" AC
102	MC 85	1211+74.30	27.36' Rt	336332.16	594343.59	998.80'	SET 2" MC AC
129	MC 85	1216+77.44	97.36' Rt	336262.81	594846.82	999.87'	SET 2" MC AC
101	MC 85	1221+27.74	149.54' Rt	336211.21	595297.19	999.41'	SET PK NAIL
100	MC 85	1222+55.81	149.79' Rt	336211.13	595425.26	1000.02'	SET PK NAIL
122	MC 85	1225+56.74	118.04' Rt	336241.49	595724.31	998.79'	SET PK NAIL
139	MC 85	1227+81.05	146.68' Rt	336208.05	595945.97	999.64'	SET PK NAIL
123	MC 85	1230+26.21	124.73' Rt	336222.75	596192.81	999.32'	SET PK NAIL

(4) MC 85/Buckeye Rd Curve Data
PI=1225+99.66
N=336361.37
E=595768.91
Δ=02°06'03" Rt
D=00°22'55"
T=275.03'
L=550.00'
R=15000.00'

(5) MC 85/Buckeye Rd Curve Data
PI=1237+05.64
N=336322.26
E=596874.26
Δ=09°41'38" Lt
D=00°35'05"
T=831.01'
L=1658.06'
R=9800.00'

SCALE: 1"=100'
100 0 100 200
SCALE IN FEET

Dial 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-30-22
STATE OF ARIZONA

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

GEOMETRIC LAYOUT AND CONTROL SHEET

SHEET G19 0F G21

TRACS NO. _____

Plot Time: 7:32:47pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_GC01.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	20	132	

POE: 346+88.71
N=339054.63
E=596829.56
N0°03'07"E
1188.73' (℄)

Quarter Corner
MCDOT Pt #5423601 BC HH
N=339054.630
E=596829.557

Benchmark Details

TBM#	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
141	MC 85	1239+79.87	73.71' Rt	336311.68	597145.99	1001.95'	SET CHISELED "X"
142	MC 85	1241+64.84	43.86' Lt	336444.88	597320.34	1001.34'	SET CHISELED "X"
130	MC 85	1242+28.12	54.62' Rt	336342.17	597394.26	1001.30'	SET 2" MC AC
601	91st Ave	293+15.18	16.23' Lt	333682.62	596726.48	997.11'	FND 2" AC
134	91st Ave	296+98.67	29.91' Rt	334064.48	596784.65	997.32'	SET 2" MC AC
128	91st Ave	299+93.73	73.56' Lt	334362.64	596690.51	996.82'	SET 2" MC AC
149	91st Ave	300+25.51	19.03' Lt	334392.70	596746.02	998.74'	SET 2" MC AC
127	91st Ave	303+36.55	131.19' Lt	334707.11	596643.70	998.83'	SET 2" MC AC
148	91st Ave	304+06.66	19.50' Lt	334773.35	596756.33	999.91'	SET 2" MC AC
126	91st Ave	306+53.39	127.65' Lt	335021.58	596651.64	998.97'	SET PK NAIL
147	91st Ave	307+84.78	13.99' Lt	335151.36	596767.14	1000.39'	SET 2" MC AC
133	91st Ave	310+07.19	156.17' Lt	335375.75	596628.10	999.89'	SET PK NAIL
146	91st Ave	311+65.46	6.53' Lt	335531.90	596779.94	1000.57'	SET 2" MC AC
125	91st Ave	313+92.53	162.76' Lt	335761.14	596626.90	998.83'	SET PK NAIL
103	91st Ave	315+45.15	24.66' Lt	335911.81	596767.14	1000.43'	SET 2" MC AC
145	91st Ave	317+44.60	58.37' Rt	336108.98	596856.39	1001.21'	SET PK NAIL
124	91st Ave	318+10.22	150.74' Lt	336181.14	596649.45	999.26'	SET PK NAIL
131	91st Ave	324+47.35	22.50' Lt	336813.74	596789.87	1002.49'	SET 2" MC AC
552	91st Ave	334+02.88	45.37' Lt	337769.50	596781.63	1005.21'	FND 2" AC
108	91st Ave	335+49.84	47.88' Lt	337915.81	596780.65	1005.71'	SET 1/2" REBAR

▲ BM 105
SE Cor Sec 9, T1N R1E, ADOT AC HH
MC85/Buckeye Rd Sta1236+58.62, 10.48' Lt
91st Ave 320+00.00, 21.0' Rt
N=336365.748, E=596827.083
Elev=1000.90' NGVD29 Datum

MC 85/Buckeye Rd
Curve Data
PI=1237+05.64
N=336322.26
E=596874.26
Δ=09°41'38" Lt
D=00°35'05"
T=831.01'
L=1658.06'
R=9800.00'

MC 85/Buckeye Rd
Curve Data
PI=1248+11.08
N=336470.29
E=597973.75
Δ=01°46'20" Rt
D=00°19'06"
T=278.39'
L=556.74'
R=18000.00'

MATCH LINE BELOW LEFT

MATCH LINE ABOVE RIGHT

MATCH LINE (SEE SHT G19)

MATCH LINE (SEE SHT G21)

CITY OF TOLLESON

CITY OF PHOENIX

SEC 9 T1N-R1E

SEC 10 T1N-R1E

SEC 16 T1N-R1E

SEC 15 T1N-R1E

91st Ave

MC 85/BUCKEYE ROAD

Exist R/W

Driveway Centerline

Section Line

91st Ave Const ℄

MC 85 Const ℄

STA 334+35.00
END PROJECT TT0651

PI: 334+99.98
0.00' Rt of Section Line
N=337865.90
E=596828.48

PI: 324+29.91
15.37' Lt of Section Line
N=336795.95
E=596812.10

PI: 320+00.00
21.00' Lt of Section Line
N=336366.09
E=596806.08

MC 85 Const ℄ 1236+36.77 =
91st Ave Const ℄ 319+88.23

Section Corner
MC85 Const ℄ Sta 1236+58.66, 10.48' Lt
91st Ave Const ℄ Sta 320+00.00, 21.04' Rt
MCDOT Pt #5424601 MC BC HH
N=336365.752
E=596827.123

PRC: 1245+32.68
17.69' Rt of Section Line
N=336433.14
E=597697.85

PI: 315+45.83
21.00' Lt of Section Line
N=335912.14
E=596791.80

PI: 303+37.91
0.00' Rt of Section Line
N=334704.34
E=596774.86

STA 296+82.64
BEGIN PROJECT TT0651

PI: 293+36.18
0.00' Rt of Section Line
N=333703.11
E=596743.36

POB: 266+73.83
N=331042.06
E=596659.88

Quarter Corner
MCDOT Pt #5425601 BC FL
N=333703.107
E=596743.363

N0°03'07"E 2688.88'
N00°03'07"E 429.91'
N0°48'07"E 2663.96'
N0°52'38"E 1070.07'
N01°48'07"E 454.17'
N89°55'31"E 2633.98'
N84°24'53"E 2547.10'
N01°48'06"E 2663.96'
N01°48'06"E 1001.73' (℄)
N01°48'13"E 1207.92'
N01°47'49"E 2662.35' (℄)

300+00
305+00
310+00
315+00
320+00
325+00
1235+00
1240+00
1245+00

SCALE: 1"=100'
100 0 100 200
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06/30/22
Mark Flood

Kimley»Horn

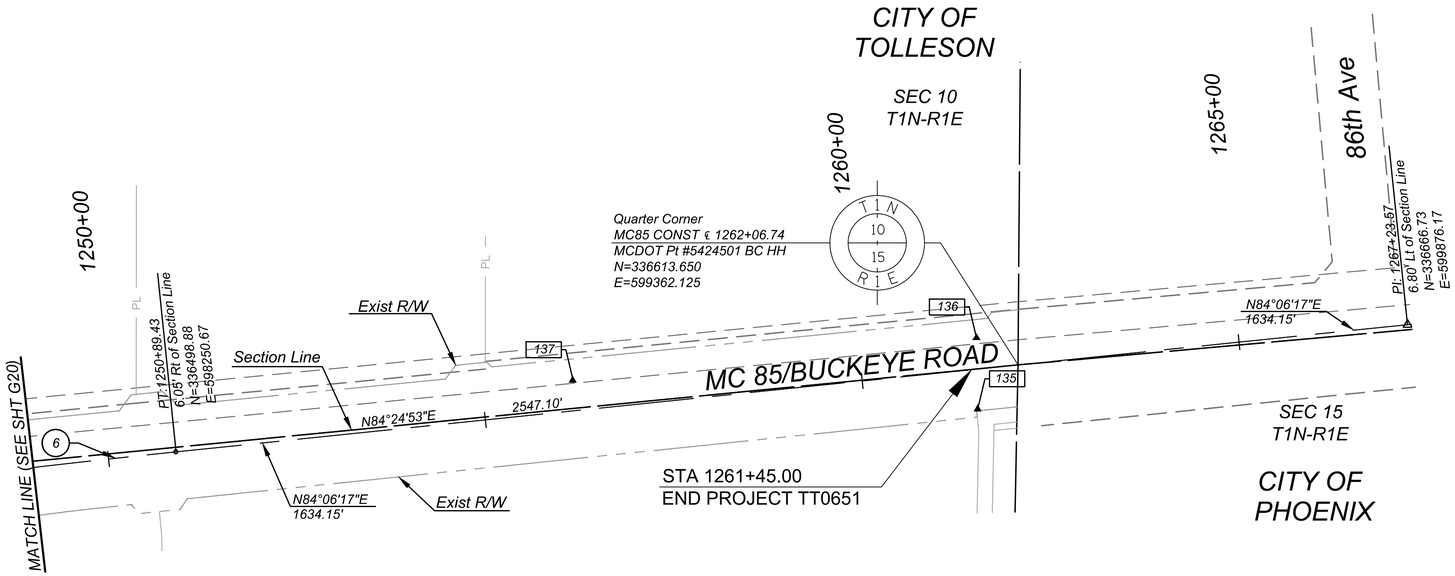
GEOMETRIC LAYOUT AND CONTROL SHEET

SHEET G20 OF G21

TRACS NO. _____

Plot Time: 7:34:21pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_GC04.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	21	132	



6

MC 85/Buckeye Rd
Curve Data
PI=1248+11.08
N=336470.29
E=597973.75
Δ=01°46'20" Rt
D=00°19'06"
T=278.39'
L=556.74'
R=18000.00'

SCALE: 1"=100'

100 0 100 200
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO
75511
MARK
FLOOD
Date Signed 06/30/22
ARIZONA, U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

GEOMETRIC LAYOUT AND CONTROL SHEET

SHEET G21 OF G21

TRACS NO. _____

Plotted By: sam.hanson Plot Date: 6/20/2022 Plot Time: 7:35:47pm

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_GC05.dwg

LEGEND	
(1a)	Pvmt Str Sect No. 1 **
(1b)	Microsurfacing Aggregate, Type III
** Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk	

NOTES

1. Refer to Sheet PL03 for Signing & Striping Plan.
2. Refer to Sheet R01 for Removal Plan.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	22	132	

CONSTRUCTION

(1b) Construct New Roadway Per Structural Section No. 1b
Microsurfacing Type III Aggregate,
Sta 1199+93.86 to 1200+50 — 352 Sy

SEC 9
T1N-R1E

Monmouth Real Estate Investment Corporation
APN 101-05-005A
FF = 998.13

Holsum Bakery Inc.
APN 101-05-001T
FF = 1001.16

1196+00 | 1197+00 | 1198+00 | 1199+00 | 1200+00

97th Ave

Exist Retention Basin

City of Tolleson Prior Rights

Exist Public Utility Esmt

Conceptual Scupper for Phase 2 Design

City Limits Exist R/W

CITY OF TOLLESON
MARICOPA COUNTY

Sta 1199+93.86
Begin Microsurfacing

Exist C&G

MC 85/BUCKEYE ROAD

N 88°55'59" E
866.98'

N 89°55'27" E
1286.64'

MC 85 Const ℄

Section Line

Exist EP

PI 1197+37.22

STA 1198+34.40
BEGIN PROJECT TT0651

MARICOPA COUNTY
CITY OF PHOENIX

8' PUE

SEC 16
T1N-R1E

Conceptual Scupper for Phase 2 Design

Acquired DE

Conceptual Basin for Phase 2 Design
Not Part of This Project

Elizabeth O. Garretson LLC
101-14-008P

Elizabeth O. Garretson LLC
101-14-008Q

MATCH LINE STA 1200+50 (SEE SHT P02)

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

Dial 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA, U.S.A.

Kimley»Horn

PAVING PLAN
Sta 1199+94 to Sta 1200+50

SHEET
P01 OF P54

TRACS NO. _____

Plot Time: 7:39:51pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL43.dwg

NOTES

1. Refer to Sheet D03 for Drainage Plan.
2. Refer to Sheet PL03 for Signing & Striping Plan.
3. Refer to Sheet R02 for Removal Plan.
4. Refer to Sheet LT02 for Lighting Plan.
5. Refer to Typical Section for Ditch Variation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	23	132	

CONSTRUCTION

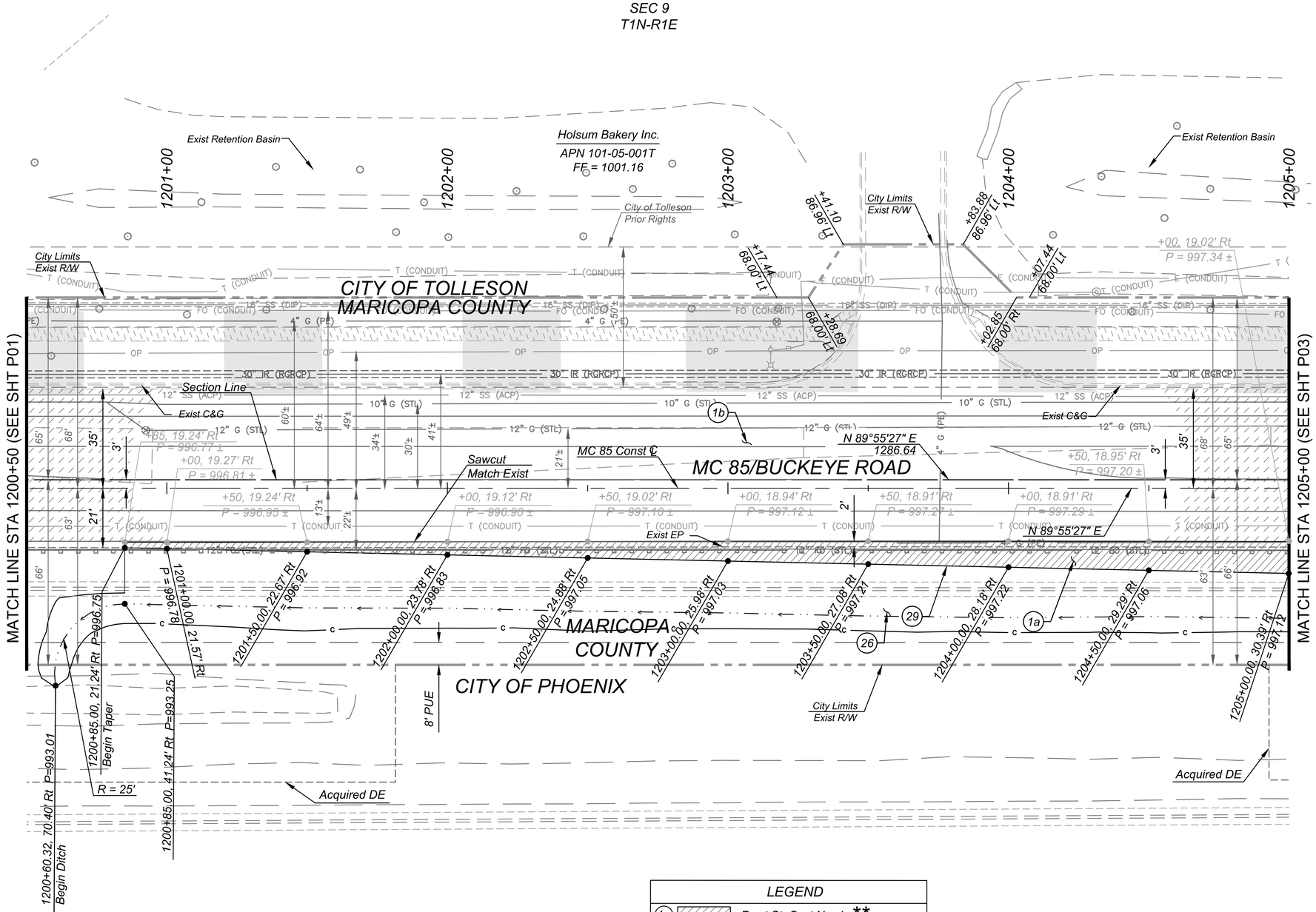
(1a) Construct New Roadway Per Structural Section No. 1a
Sta 1200+85 to Sta 1205+00

Lime Slurry Stabilization 8" Thick	312 Sy
Lime	4 Tons
Cement	3 Tons
AC (Superpave ½" Mix) 1 ½ " Thick	26 Tons
AC (Superpave ¾" Mix) 6 ½" Thick	114 Tons
AB, 5" Thick	88 Tons
Tack Coat	0.26 Tons

(1b) Construct New Roadway Per Structural Section No. 1b
Microsurfacing Type III Aggregate 2735 Sy
Sta 1200+50 to Sta 1205+00

(26) Decomposed Granite, ¾", 2" Thick 1694 Sy
Sta 1200+60 to Sta 1205+00 Rt

(29) Construct Safety Edge
Per MAG Std Det 201 Safety Edge



LEGEND

(1a)	Pvmt Str Sect No. 1 **
(1b)	Microsurfacing Aggregate, Type III

** Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk

Elizabeth O. Garretson LLC
101-14-008Q

SEC 16
T1N-R1E

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06/22
ARIZONA U.S.A.

Kimley»Horn

PAVING PLAN
Sta 1200+50 to Sta 1205+00

SHEET
P02 OF P54

TRACS NO. _____

Plot Time: 7:43:46pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL44.dwg

Plot Time: 7:47:42pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL45.dwg

LEGEND	
(1a)	Pvmt Str Sect No. 1 **
(1b)	Microsurfacing Aggregate, Type III
** Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk	

NOTES

1. Refer to Sheet P04 for MC 85 Profile.
2. Refer to Sheet D04 for Drainage Plan.
3. Refer to Sheet PL03 for Signing & Striping Plan.
4. Refer to Sheet R03 for Removal Plan.
5. Refer to Sheet LT03 for Lighting Plan.
6. Refer to Special Provisions for Existing Landscape Restoration Payment.
7. Refer to Sheet P39 for Driveway Details.
8. Refer to Typical Sections for Ditch Variation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	24	132	

CONSTRUCTION

(1a) Construct New Roadway Per Structural Section No. 1a
Sta 1205+00 to Sta 1210+00

Lime Slurry Stabilization 8" Thick	3260 Sy
Lime	45 Tons
Cement	30 Tons
AC (Superpave ½" Mix) 1 ½" Thick	252 Tons
AC (Superpave ¾" Mix) 6 ½" Thick	1091 Tons
AB, 5" Thick	911 Tons
Tack Coat	2.49 Tons

(1b) Construct New Roadway Per Structural Section No. 1b
Microsurfacing Type III Aggregate 907 Sy
Sta 1205+00 to Sta 1206+50

(2) Construct New Conc C&G 143 Lf
Per MAG Std Det 220, Type A
Sta 1208+00 to Sta 1208+32 Rt
Sta 1208+72 to Sta 1209+80 Rt

(3) Construct New Conc Sidewalk 666 Sf
Per COP Std Det P1230
Sta 1208+67 to Sta 1209+85 Rt

(9) Construct New Mountable Conc C&G, 350 Lf
Per Modified MAG Std Det 220, Type E
9" Thick Gutter Pan
Sta 1206+50 to Sta 1210+00 Lt

(17) Construct New Driveway Entrance 705 Sf
Per COP Std Det P1255-2
Lime Slurry Stabilization, 8" Thick 78 SY
Lime 1 Tons
Cement 1 Tons

(26) Decomposed Granite, ¾", 2" Thick 1298 Sy
Sta 1205+00 to Sta 1208+00 Rt
Sta 1208+64 to Sta 1208+72 Rt
Sta 1209+04 to Sta 1209+80 Rt

(29) Construct Safety Edge
Per MAG Std Det 201 Safety Edge

(51) Construct 2'-6" Curb Transition
Per MAG Std Det 222

(54) Grade New ABC Driveway
Sta 19+07.25 to Sta 19+49.40
Sta 19+10 to Sta 19+49
Subgrade Prep 189 Sy
AB, 6" Thick 64 Tons

(55) Construct New Conc C&G, 60 Lf
Per Modified MAG Std Det 220, Type A
10" Thick Fibermesh Reinforced Conc
See Sheet 74
Sta 1208+32 to Sta 1208+72 Rt
Sta 1209+80 to Sta 1210+00 Rt

(57) 6" Schedule 40 PVC Irrigation Pipe Sleeve 99 Lf
With Tracer Wire, See General Notes

SIDEWALK CONTROL POINTS				
POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
253	1208+72.00	50.60' Rt	998.44	S/W FG
254	1208+77.00	45.60' Rt	998.37	S/W FG
R254	1208+72.00	45.60' Rt	-	5.00' Radius
255	1208+77.00	43.58' Rt	998.34	S/W FG

NO.	REVISION	BY	DATE
1			
2			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-22-22 ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

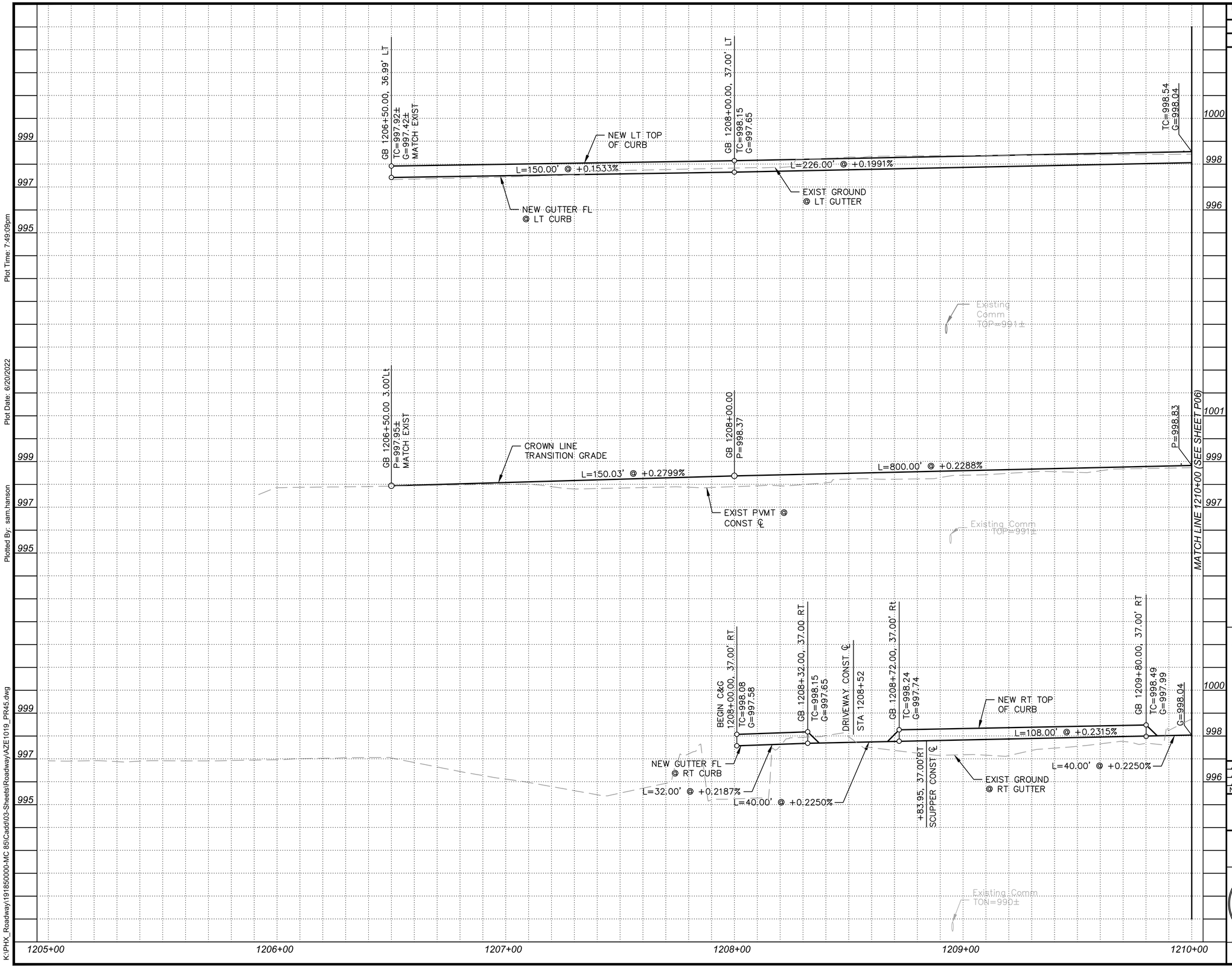
PAVING PLAN
Sta 1205+00 to Sta 1210+00

SHEET P03 OF P54

TRACS NO. _____

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	25	132	

○ CONSTRUCTION ○



GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

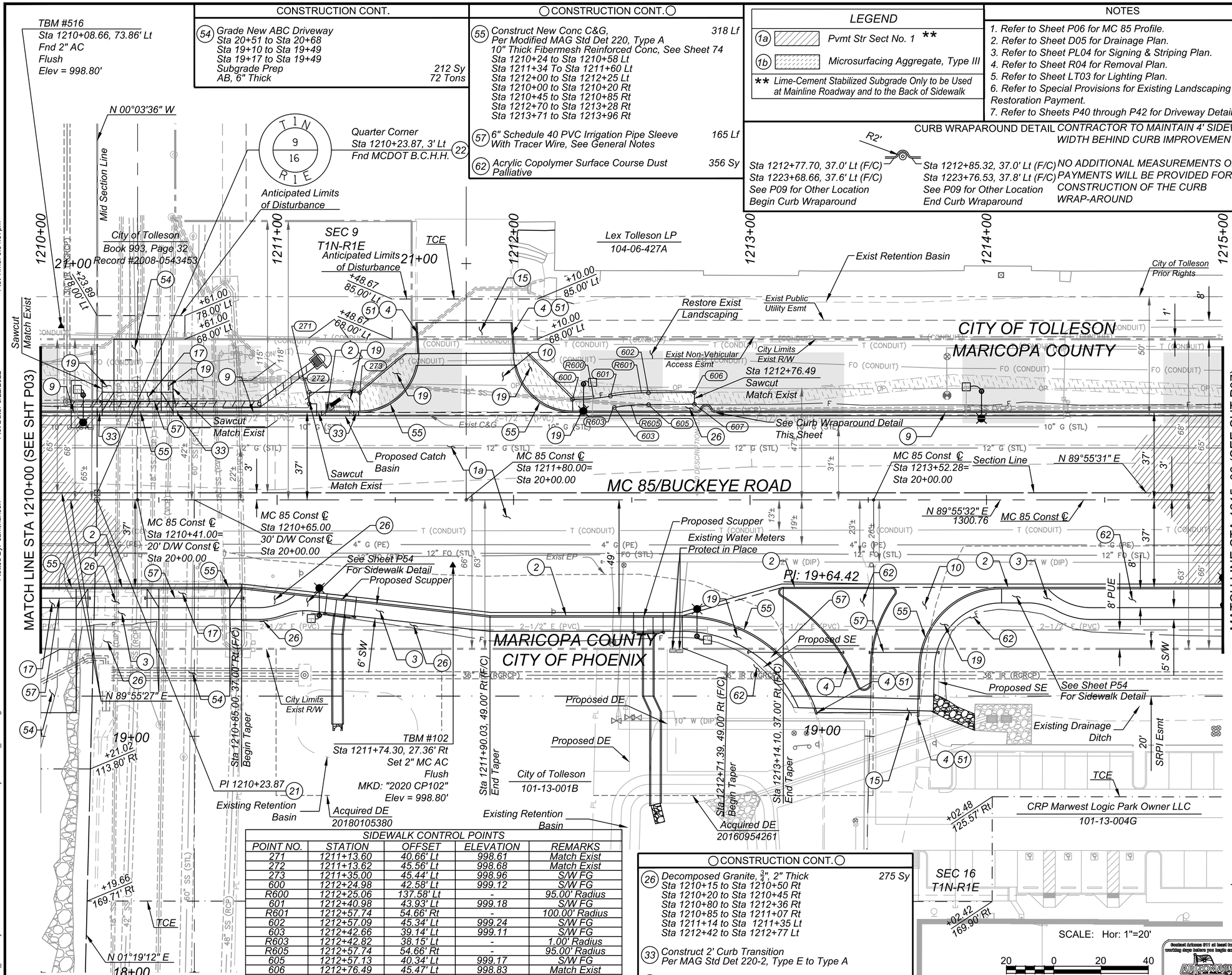
Kimley»Horn

PAVING PROFILE
Sta 1205+00 to Sta 1210+00

SHEET
P04 OF P54

TRACS NO. _____

Plot Time: 7:49:09pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PR45.dwg



CONSTRUCTION CONT.

(54) *Grade New ABC Driveway*
Sta 20+51 to Sta 20+68
Sta 19+10 to Sta 19+49
Sta 19+17 to Sta 19+49
Subgrade Prep 212 Sy
AB, 6" Thick 72 Tons

○ CONSTRUCTION CONT. ○

(55) *Construct New Conc C&G,* 318 Lf
Per Modified MAG Std Det 220, Type A
10" Thick Fibermesh Reinforced Conc, See Sheet 74
Sta 1210+24 to Sta 1210+58 Lt
Sta 1211+34 To Sta 1211+60 Lt
Sta 1212+00 to Sta 1212+25 Lt
Sta 1210+00 to Sta 1210+20 Rt
Sta 1210+45 to Sta 1210+85 Rt
Sta 1212+70 to Sta 1213+28 Rt
Sta 1213+71 to Sta 1213+96 Rt

(57) *6" Schedule 40 PVC Irrigation Pipe Sleeve With Tracer Wire, See General Notes* 165 Lf

(62) *Acrylic Copolymer Surface Course Dust Palliative* 356 Sy

LEGEND

(1a) *Pvmt Str Sect No. 1* **

(1b) *Microsurfacing Aggregate, Type III*

** *Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk*

NOTES

1. Refer to Sheet P06 for MC 85 Profile.
2. Refer to Sheet D05 for Drainage Plan.
3. Refer to Sheet PL04 for Signing & Striping Plan.
4. Refer to Sheet R04 for Removal Plan.
5. Refer to Sheet LT03 for Lighting Plan.
6. Refer to Special Provisions for Existing Landscaping Restoration Payment.
7. Refer to Sheets P40 through P42 for Driveway Detail.

CURB WRAPAROUND DETAIL

Sta 1212+77.70, 37.0' Lt (F/C)
Sta 1223+68.66, 37.6' Lt (F/C)
See P09 for Other Location
Begin Curb Wraparound

R2'

Sta 1212+85.32, 37.0' Lt (F/C)
Sta 1223+76.53, 37.8' Lt (F/C)
See P09 for Other Location
End Curb Wraparound

CONTRACTOR TO MAINTAIN 4' SIDEWALK WIDTH BEHIND CURB IMPROVEMENTS. NO ADDITIONAL MEASUREMENTS OR PAYMENTS WILL BE PROVIDED FOR THE CONSTRUCTION OF THE CURB WRAP-AROUND

SIDEWALK CONTROL POINTS

POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
271	1211+13.60	40.66' Lt	998.61	Match Exist
272	1211+13.62	45.56' Lt	998.68	Match Exist
273	1211+35.00	45.44' Lt	998.96	S/W FG
600	1212+24.98	42.58' Lt	999.12	S/W FG
R600	1212+25.06	137.58' Lt	-	95.00' Radius
601	1212+40.98	43.93' Lt	999.18	S/W FG
R601	1212+57.74	54.66' Rt	-	100.00' Radius
602	1212+57.09	45.34' Lt	999.24	S/W FG
603	1212+42.66	39.14' Lt	999.11	S/W FG
R603	1212+42.82	38.15' Lt	-	1.00' Radius
R605	1212+57.74	54.66' Rt	-	95.00' Radius
605	1212+57.13	40.34' Lt	999.17	S/W FG
606	1212+76.49	45.47' Lt	998.83	Match Exist
607	1212+76.52	40.47' Lt	998.76	Match Exist

○ CONSTRUCTION CONT. ○

(26) *Decomposed Granite, ¾", 2" Thick* 275 Sy
Sta 1210+15 to Sta 1210+50 Rt
Sta 1210+20 to Sta 1210+45 Rt
Sta 1210+80 to Sta 1212+36 Rt
Sta 1210+85 to Sta 1211+07 Rt
Sta 1211+14 to Sta 1211+35 Lt
Sta 1212+42 to Sta 1212+77 Lt

(33) *Construct 2' Curb Transition*
Per MAG Std Det 220-2, Type E to Type A

(51) *Construct 2'-6" Curb Transition*
Per MAG Std Det 222

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	26	132	

○ CONSTRUCTION ○

(1a) *Construct New Roadway Per Structural Section No. 1a*
Sta 1210+00 to Sta 1215+00
Lime Slurry Stabilization 8" Thick 4962 Sy
Lime 69 Tons
Cement 46 Tons
AC (Superpave ½" Mix) 1 ½" Thick 351 Tons
AC (Superpave ¾" Mix) 6 ½" Thick 1521 Tons
AB, 5" Thick 1285 Tons
Tack Coat 3.47 Tons

(2) *Construct New Conc C&G* 369 Lf
Per MAG Std Det 220, Type A
Sta 1210+20 to Sta 1210+45 Rt
Sta 1210+85 to Sta 1212+70 Rt
Sta 1213+12 to Sta 1213+62 Rt
Sta 1213+96 to Sta 1215+00 Rt
Sta 1211+19 to Sta 1211+32 Lt

(3) *Construct New Conc Sidewalk* 1810 Sf
Per COP Std Det P1230
Sta 1210+15 to Sta 1210+50 Rt
Sta 1210+80 to Sta 1212+71 Rt
Sta 1214+06 to Sta 1215+00 Rt

(4) *Construct New Conc Single Curb* 140 Lf
Per MAG Std Det 222, Type A
Sta 1213+12 to Sta 1213+62 Rt
Sta 20+62 to Sta 20+75 Rt & Lt
Sta 19+09 to Sta 19+11 Rt & Lt

(9) *Construct New Mountable Conc C&G* 448 Lf
Per Modified MAG Std Det 220, Type E
9" Thick Gutter Pan
Sta 1210+00 to Sta 1210+24 Lt
Sta 1210+58 to Sta 1211+17 Lt
Sta 1212+25 to Sta 1215+00 Lt

(10) *Construct New Return Type Driveway*
Per Modified COP Std Det P1243
10" Thick Fibermesh Reinforced Conc 3583 Sf
Lime Slurry Stabilization 8" Thick 398 Sy
Lime 10 Tons
Cement 4 Tons

(15) *10" Thick Fibermesh Reinforced Conc* 576 Sf
Subgrade Prep 66 Sy

(17) *Construct New Driveway Entrance* 1045 Sf
Per COP Std Det P1255-2
Lime Slurry Stabilization, 8" Thick 116 Sy
Lime 2 Tons
Cement 1 Tons

(19) *Concrete Sidewalk, COP Det P1230* 1810 Sf
Modified, 9" Thick, Class A Concrete
Sta 1210+26 to Sta 1210+31 Lt
Sta 1210+51 to Sta 1210+56 Lt
Sta 1211+14 to Sta 1211+60 Lt
Sta 1212+00 to Sta 1212+76 Lt
Sta 1212+71 to Sta 1213+28 Rt
Sta 1213+71 to Sta 1214+06 Rt

(21) *Install Survey Marker* 1 Ea
Per MAG Std Det 120, Type B
Sta 1210+23.87

(22) *Install Survey Marker* 1 Ea
Per MAG Std Det 120, Type A
Sta 1210+23.90, 3.00' Lt

NO.	REVISION	BY	DATE
1			
2			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-22-22 ARIZONA U.S.A.

Kimley»Horn

PAVING PLAN
Sta 1210+00 to Sta 1215+00

SHEET P05 OF P54

TRACS NO. _____

Plot Time: 3:54:37pm
Plot Date: 6/22/2022
Plotted By: sam.hanson
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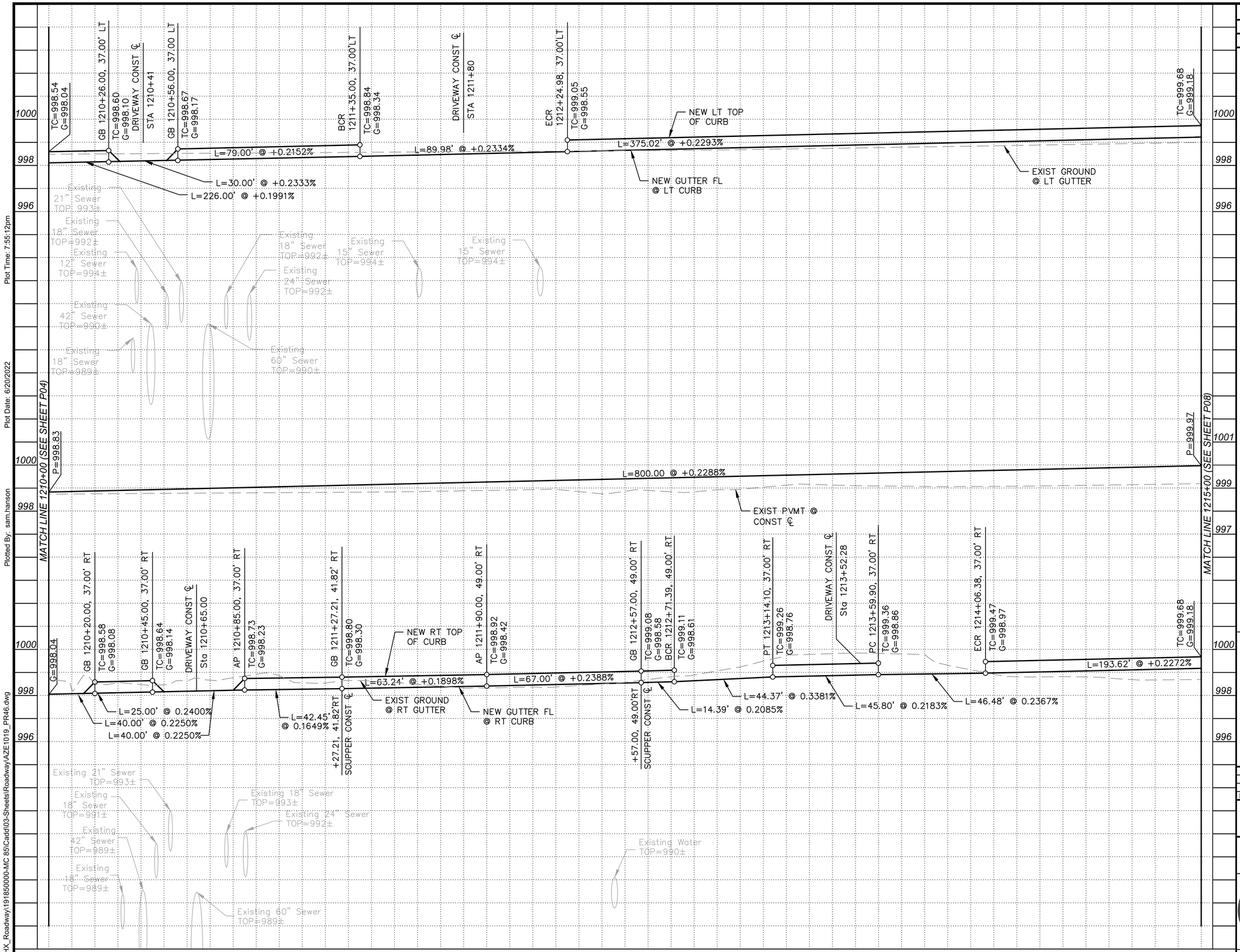
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	27	132	

CONSTRUCTION



GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06/30/22
Mark Flood

Kimley»Horn

PAVING PROFILE
Sta 1210+00 to Sta 1215+00

SHEET
P06 OF P54

TRACS NO. _____

Plot Time: 7:55:12pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
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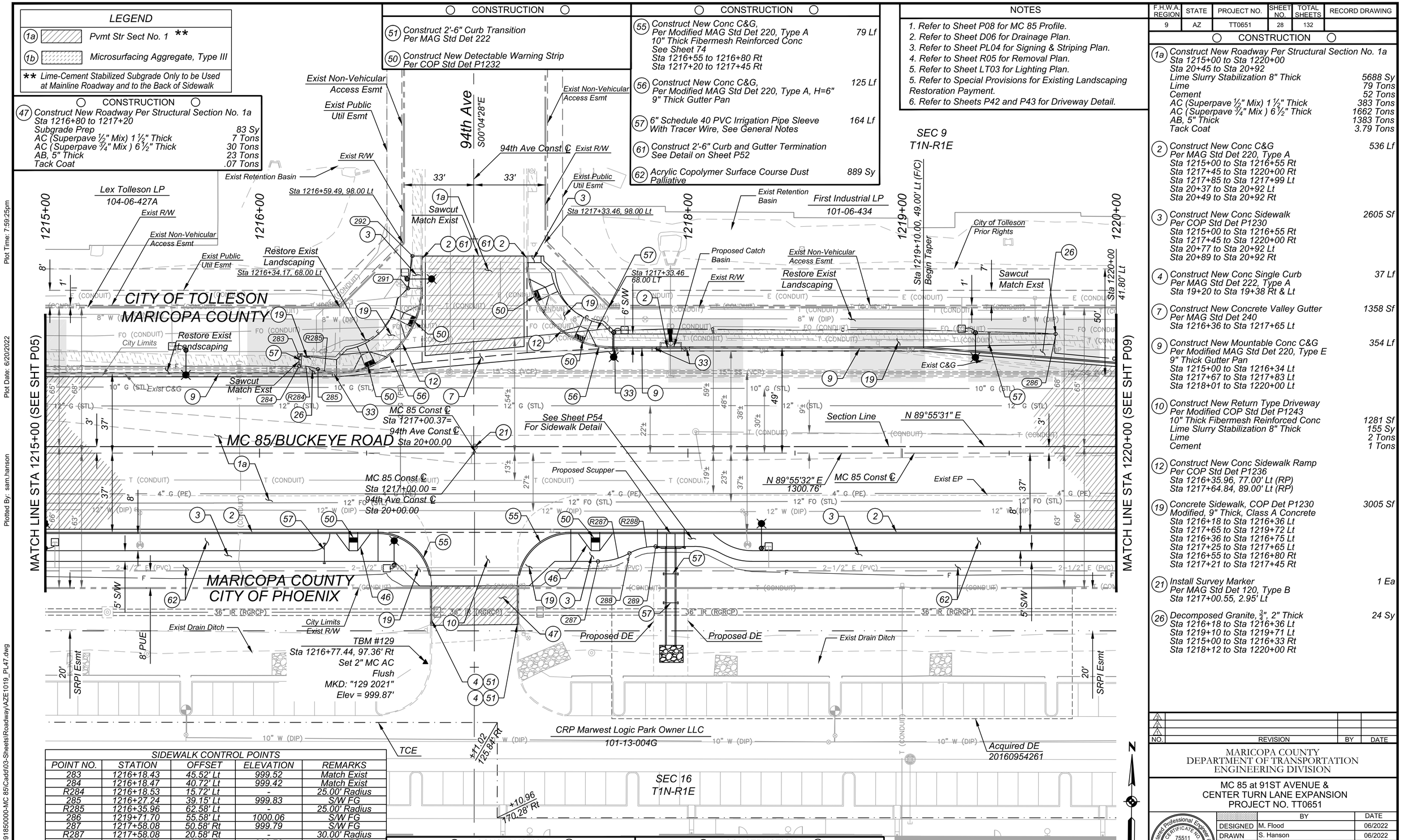

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	28	132	

CONSTRUCTION

1a	Construct New Roadway Per Structural Section No. 1a	
	Sta 1215+00 to Sta 1220+00	
	Sta 20+45 to Sta 20+92	
	Lime Slurry Stabilization 8" Thick	5688 Sy
	Lime	79 Tons
	Cement	52 Tons
	AC (Superpave ½" Mix) 1 ½" Thick	383 Tons
	AC (Superpave ¾" Mix) 6 ½" Thick	1662 Tons
	AB, 5" Thick	1383 Tons
	Tack Coat	3.79 Tons
2	Construct New Conc C&G	536 Lf
	Per MAG Std Det 220, Type A	
	Sta 1215+00 to Sta 1216+55 Rt	
	Sta 1217+45 to Sta 1220+00 Rt	
	Sta 1217+85 to Sta 1217+99 Lt	
	Sta 20+37 to Sta 20+92 Lt	
	Sta 20+49 to Sta 20+92 Rt	
3	Construct New Conc Sidewalk	2605 Sf
	Per COP Std Det P1230	
	Sta 1215+00 to Sta 1216+55 Rt	
	Sta 1217+45 to Sta 1220+00 Rt	
	Sta 20+77 to Sta 20+92 Lt	
	Sta 20+89 to Sta 20+92 Rt	
4	Construct New Conc Single Curb	37 Lf
	Per MAG Std Det 222, Type A	
	Sta 19+20 to Sta 19+38 Rt & Lt	
7	Construct New Concrete Valley Gutter	1358 Sf
	Per MAG Std Det 240	
	Sta 1216+36 to Sta 1217+65 Lt	
9	Construct New Mountable Conc C&G	354 Lf
	Per Modified MAG Std Det 220, Type E	
	9" Thick Gutter Pan	
	Sta 1215+00 to Sta 1216+34 Lt	
	Sta 1217+67 to Sta 1217+83 Lt	
	Sta 1218+01 to Sta 1220+00 Lt	
10	Construct New Return Type Driveway	
	Per Modified COP Std Det P1243	
	10" Thick Fibermesh Reinforced Conc	1281 Sf
	Lime Slurry Stabilization 8" Thick	155 Sy
	Lime	2 Tons
	Cement	1 Tons
12	Construct New Conc Sidewalk Ramp	
	Per COP Std Det P1236	
	Sta 1216+35.96, 77.00' Lt (RP)	
	Sta 1217+64.84, 89.00' Lt (RP)	
19	Concrete Sidewalk, COP Det P1230	3005 Sf
	Modified, 9" Thick, Class A Concrete	
	Sta 1216+18 to Sta 1216+36 Lt	
	Sta 1217+65 to Sta 1219+72 Lt	
	Sta 1216+36 to Sta 1216+75 Lt	
	Sta 1217+25 to Sta 1217+65 Lt	
	Sta 1216+55 to Sta 1216+80 Rt	
	Sta 1217+21 to Sta 1217+45 Rt	
21	Install Survey Marker	1 Ea
	Per MAG Std Det 120, Type B	
	Sta 1217+00.55, 2.95' Lt	
26	Decomposed Granite, ¾", 2" Thick	24 Sy
	Sta 1216+18 to Sta 1216+36 Lt	
	Sta 1219+10 to Sta 1219+71 Lt	
	Sta 1215+00 to Sta 1216+33 Rt	
	Sta 1218+12 to Sta 1220+00 Rt	

NO.	REVISION	BY	DATE
1			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/30/22 ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

PAVING PLAN
Sta 1215+00 to Sta 1220+00

SHEET P07 OF P54

TRACS NO. _____

Plot Time: 7:59:25pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
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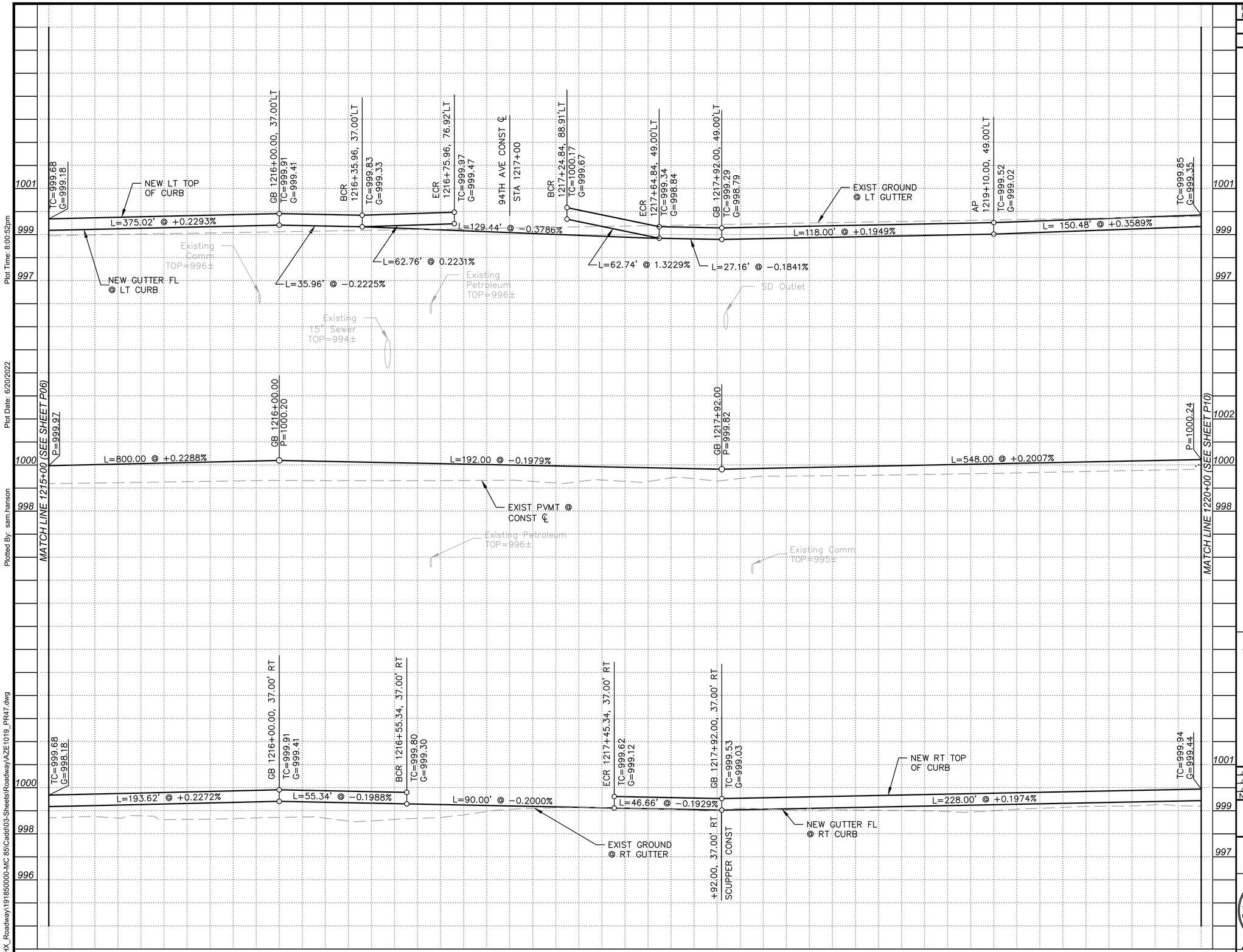
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	29	132	

CONSTRUCTION



GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

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1			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK FLOOD
Date Signed 06/20/22
ARIZONA U.S.A.

Kimley»Horn

PAVING PROFILE
Sta 1215+00 to Sta 1220+00

SHEET
P08 OF P54

TRACS NO. _____

Plot Time: 8:00:52pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
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SIDEWALK CONTROL POINTS				
POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
300	1221+50.00	45.47' Lt	1000.36	Match Exist
301	1221+50.00	40.47' Lt	1000.29	Match Exist
302	1221+61.32	45.47' Lt	1000.39	S/W FG
R302	1221+61.33	15.47' Lt	-	30' Radius
303	1221+61.32	40.47' Lt	1000.31	S/W FG
R303	1221+61.33	15.47' Lt	-	25' Radius
304	1221+70.53	44.03' Lt	1000.38	S/W FG
R304	1221+79.72	72.58' Lt	-	30' Radius
305	1221+70.22	38.84' Lt	1000.31	S/W FG
R305	1221+69.86	37.90' Lt	-	1' Radius
306	1221+79.72	42.58' Lt	1000.38	S/W FG
307	1223+06.67	42.58' Lt	1000.64	S/W FG

SIDEWALK CONTROL POINTS				
POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
R307	1223+06.67	72.58' Lt	-	30' Radius
R308	1223+17.90	38.02' Lt	-	1' Radius
308	1223+17.40	38.88' Lt	1000.60	S/W FG
309	1223+18.38	44.96' Lt	1000.69	S/W FG
R309	1223+30.09	17.35' Lt	-	30' Radius
R310	1223+30.09	17.35' Lt	-	25' Radius
310	1223+30.05	42.35' Lt	1000.67	S/W FG
311	1223+30.04	47.35' Lt	1000.75	S/W FG
312	1223+50.00	42.39' Lt	1000.46	Match Exist
313	1223+50.00	47.39' Lt	1000.54	Match Exist
314	1224+12.32	47.69' Lt	1000.36	S/W FG
315	1224+35.26	47.95' Lt	1000.46	S/W FG

(4) CURVE DATA
PI=1225+99.66
N=336361.37
E=595768.91
Δ=02°06'03" Rt
D=00°22'55"
T=275.03'
L=550.00'
R=15000.00'

NOTES
1. Refer to Sheet P10 for MC 85 Profile.
2. Refer to Sheet D07 for Drainage Plan.
3. Refer to Sheet PL04 for Signing & Striping Plan.
4. Refer to Sheet R06 for Removal Plan.
5. Refer to Sheet LT03 for Lighting Plan.
6. Refer to Special Provisions for Existing Landscaping Restoration Payment.
7. Refer to Sheets P43 and P44 for Driveway Detail.

LEGEND
(1a) Pvmt Str Sect No. 1 **
(1b) Microsurfacing Aggregate, Type III
** Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	30	132	

○ CONSTRUCTION ○

(55) Construct New Conc C&G, 517 Lf
Per Modified MAG Std Det 220, Type A
10" Thick Fibermesh Reinforced Conc
See Sheet 74
Sta 1220+82 to Sta 1224+15 Rt
Sta 1222+06 to Sta 1222+31 Lt
Sta 1222+82 to Sta 1223+06 Lt
Sta 1224+59 to Sta 1224+84 Rt

○ CONSTRUCTION ○

(57) 6" Schedule 40 PVC Irrigation Pipe Sleeve 191 Lf
With Tracer Wire, See General Notes

(62) Acrylic Copolymer Surface Course Dust 645 Sy
Palliative

○ CONSTRUCTION ○

(1a) Construct New Roadway Per Structural Section No. 1a
Sta 1220+00 to Sta 1225+00
Lime Slurry Stabilization 8" Thick 4887 Sy
Lime 67 Tons
Cement 45 Tons
AC (Superpave ½" Mix) 1 ½" Thick 340 Tons
AC (Superpave ¾" Mix) 6 ½" Thick 1472 Tons
AB, 5" Thick 1249 Tons
Tack Coat 3.35 Tons

(2) Construct New Conc C&G 131 Lf
Per MAG Std Det 220, Type A
Sta 1220+00 to Sta 1220+82 Rt
Sta 1224+00 to Sta 1224+50 Rt
Sta 1224+84 to Sta 1225+00 Rt
Sta 1224+18 to Sta 1224+32 Lt

(3) Construct New Conc Sidewalk 2169 Sf
Per COP Std Det P1230
Sta 1220+00 to Sta 1223+59 Rt
Sta 1224+95 to Sta 1225+00 Rt

(4) Construct New Conc Single Curb
Per MAG Std Det 222, Type A 135 Lf
Sta 20+62 to Sta 20+73 Lt
Sta 20+61 to Sta 20+73 Rt
Sta 1224+00 to Sta 1224+50 Rt
Sta 19+08 to Sta 19+11 Rt & Lt

(9) Construct New Mountable Conc C&G, 484 Lf
Per Modified MAG Std Det 220, Type E
9" Thick Gutter Pan
Sta 1220+00 to Sta 1222+04 Lt
Sta 1223+08 to Sta 1224+16 Lt
Sta 1224+34 to Sta 1225+00 Lt

(10) Construct New Return Type Driveway
Per Modified COP Std Det P1243
10" Thick Fibermesh Reinforced Conc 6709 Sf
Lime Slurry Stabilization 8" Thick 745 Sy
Lime 10 Tons
Cement 7 Tons

(15) 10" Thick Fibermesh Reinforced Conc 679 Sf
Subgrade Prep 77 Sy

(19) Concrete Sidewalk, COP Det P1230
Modified, 9" Thick, Class A Concrete 1756 Sf
Sta 1221+50 to 1222+06 Lt
Sta 1222+06 to 1222+31 Lt
Sta 1222+82 to 1223+50 Lt
Sta 1224+12 to 1224+35 Lt
Sta 1223+59 to 1224+15 Rt
Sta 1224+59 to 1224+95 Rt

(26) Decomposed Granite, ¾", 2" Thick 31 Sy
Sta 1221+50 to Sta 1221+71 Lt
Sta 1223+17 to Sta 1223+50 Lt
Sta 1224+12 to Sta 1224+35 Lt

(21) Install Survey Marker 1 Ea
Per MAG Std Det 120, Type B
Sta 1223+24.63

(33) Construct 2' Curb Transition
Per MAG Std Det 220-2, Type E to Type A

(51) Construct 2'-6" Curb Transition
Per MAG Std Det 222

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-22-22 ARIZONA U.S.A.

Kimley»Horn

PAVING PLAN
Sta 1220+00 to Sta 1225+00

SHEET P09 OF P54

TRACS NO. _____

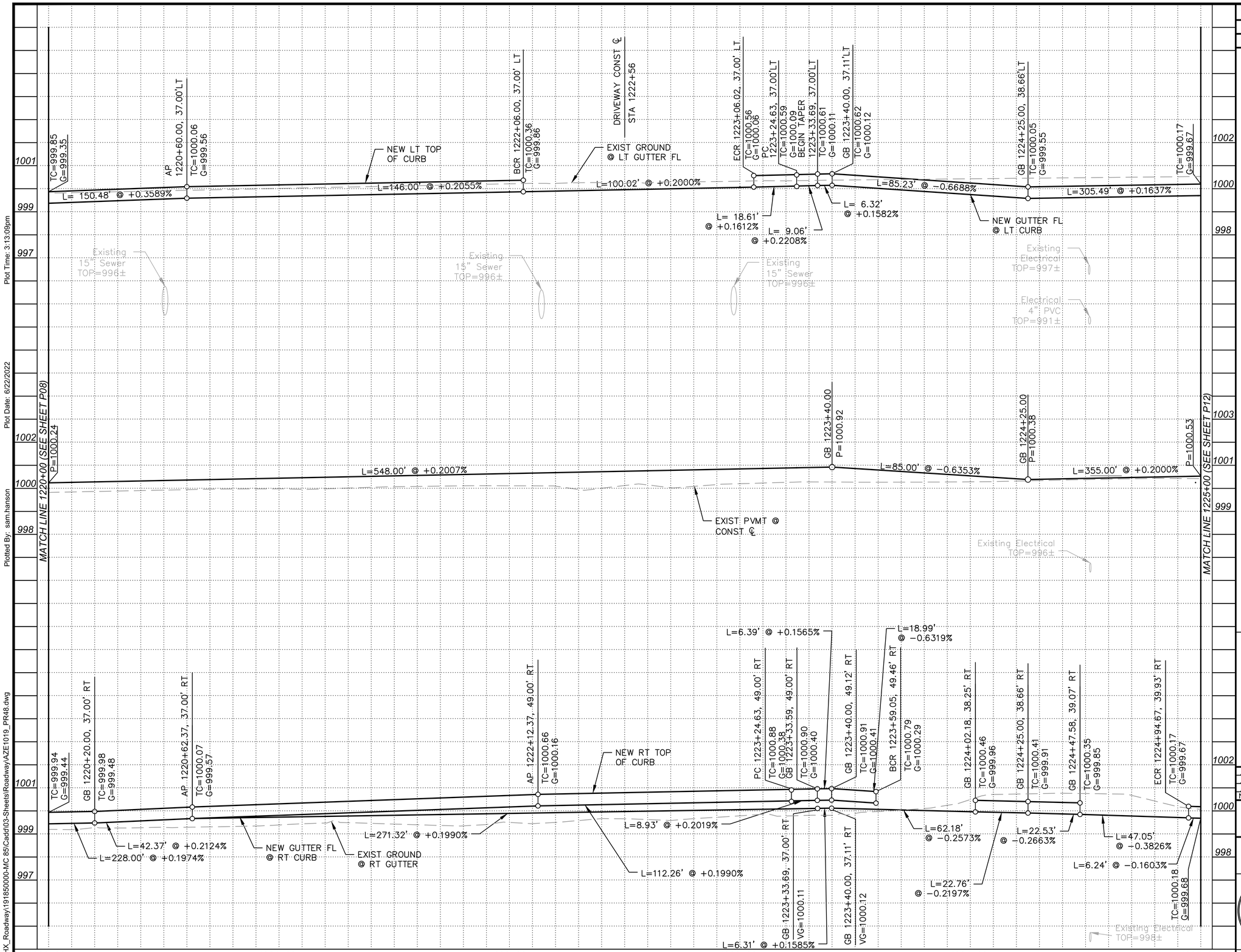
SCALE: Hor: 1"=20'
20 0 20 40
SCALE IN FEET

Arizona Blue Stake, Inc. Arizona811.com Call 811 or visit Arizona811.com

Plot Time: 3:22:14pm
Plot Date: 6/22/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL48.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	31	132	

○ CONSTRUCTION ○



GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-24-22

Kimley»Horn

PAVING PROFILE
Sta 1220+00 to Sta 1225+00

SHEET
P10 OF P54

TRACS NO. _____

Plot Time: 3:13:09pm
Plot Date: 6/22/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PR48.dwg

SIDEWALK CONTROL POINTS				
POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
316	1227+15.97	47.79' Lt	1000.42	S/W FG
317	1227+33.23	48.25' Lt	1000.62	S/W FG
R317	1227+33.09	53.24' Lt	-	5.00' Radius
318	1227+36.68	49.77' Lt	1000.66	S/W FG
319	1227+44.23	57.63' Lt	1000.79	S/W FG
R319	1227+45.66	56.24' Lt	-	2.00' Radius
320	1227+49.69	56.00' Lt	1000.86	S/W FG

SIDEWALK CONTROL POINTS				
POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
321	1228+29.11	51.59' Lt	1000.50	S/W FG
R321	1228+28.94	61.59' Lt	-	10.00' Radius
322	1228+34.92	53.59' Lt	1000.50	S/W FG
R322	1228+43.90	41.60' Lt	-	15.00' Radius
R323	1228+43.90	41.60' Lt	-	10.00' Radius
323	1228+43.55	51.59' Lt	1000.43	S/W FG
324	1228+43.37	56.59' Lt	1000.50	S/W FG
325	1228+67.16	57.45' Lt	1000.84	S/W FG
326	1227+46.74	57.92' Lt	1000.82	S/W FG

(4) CURVE DATA
PI=1225+99.66
N=336361.37
E=595768.91
Δ=02°06'03" Rt
D=00°22'55"
T=275.03'
L=550.00'
R=15000.00'

(5) CURVE DATA
PI=1237+05.64
N=336322.26
E=596874.26
Δ=09°41'38" Lt
D=00°35'05"
T=831.01'
L=1658.06'
R=9800.00'

NOTES

1. Refer to Sheet P12 for MC 85 Profile.
2. Refer to Sheet D08 for Drainage Plan.
3. Refer to Sheet PL04 for Signing & Striping Plan.
4. Refer to Sheet R07 for Removal Plan.
5. Refer to Sheet LT03 for Lighting Plan.
6. Refer to Special Provisions for Existing Landscaping Restoration Payment.
7. Refer to Sheets P44 & P45 for Driveway Detail.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	32	132	

CONSTRUCTION

(1a) Construct New Roadway Per Structural Section No. 1a
Sta 1225+00 to Sta 1230+00
Lime Slurry Stabilization 8" Thick 5591 Sy
Lime 77 Tons
Cement 51 Tons
AC (Superpave ½" Mix) 1 ½" Thick 404 Tons
AC (Superpave ¾" Mix) 6 ½" Thick 1753 Tons
AB, 5" Thick 1470 Tons
Tack Coat 3.99 Tons

(2) Construct New Conc C&G 537 Lf
Per MAG Std Det 220, Type A
Sta 1225+00 to Sta 1227+34 Rt
Sta 1228+34 to Sta 1230+00 Rt
Sta 1228+53 to Sta 1228+67 Lt
Sta 20+71 to Sta 20+80 Lt & Rt

(3) Construct New Conc Sidewalk 2125 Sf
Per COP Std Det P1230
Sta 1225+00 to Sta 1227+34 Rt
Sta 1228+34 to Sta 1230+00 Rt

(4) Construct New Conc Single Curb 27 Lf
Per MAG Std Det 222, Type A
Sta 19+12 to Sta 19+27 Lt
Sta 19+11 to Sta 19+22 Rt

(9) Construct New Mountable Conc C&G 484 Lf
Per Modified MAG Std Det 220, Type E
9" Thick Gutter Pan
Sta 1225+00 to Sta 1227+28 Lt
Sta 1228+31 to Sta 1230+00 Lt

(10) Construct New Return Type Driveway
Per Modified COP Std Det P1243
10" Thick Fibermesh Reinforced Conc 3139 Sf
Lime Slurry Stabilization 8" Thick 377 Sy
Lime 5 Tons
Cement 3 Tons

(15) 10" Thick Fibermesh Reinforced Conc 528 Sf
Subgrade Prep 60 Sy

(19) Concrete Sidewalk, COP Det P1230
Modified, 9" Thick, Class A Concrete 1546 Sf
Sta 1227+16 to 1227+54 Lt
Sta 1228+04 to 1228+67 Lt
Sta 1227+34 to 1227+63 Rt
Sta 1228+04 to 1228+34 Rt

(21) Install Survey Marker 1 Ea
Per MAG Std Det 120-2, Type B
Sta 1228+74.63

(26) Decomposed Granite, ¾", 2" Thick 32 Sy
Sta 1227+16 to Sta 1227+50
Sta 1228+35 to Sta 1228+52

(47) Construct New Roadway Per Structural Section No. 1a
Sta 20+69 to Sta 20+80
Subgrade Prep 58 Sy
AC (Superpave ½" Mix) 1 ½" Thick 5 Tons
AC (Superpave ¾" Mix) 6 ½" Thick 20 Tons
AB, 5" Thick 15 Tons
Tack Coat 0.04 Tons

(55) Construct New Conc C&G, 173 Lf
Per Modified MAG Std Det 220, Type A
10" Thick Fibermesh Reinforced Conc, See Sheet 74
Sta 1227+30 to Sta 1227+54 Lt
Sta 1228+04 to Sta 1228+29 Lt
Sta 1227+34 to Sta 1227+63 Rt
Sta 1228+04 to Sta 1228+34 Rt

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/22 ARIZONA U.S.A.

Kimley»Horn

PAVING PLAN
Sta 1225+00 to Sta 1230+00

SHEET P11 OF P54

TRACS NO. _____

CONSTRUCTION

(33) Construct 2' Curb Transition
Per MAG Std Det 220-2, Type E to Type A

(51) Construct 2'-6" Curb Termination
Per MAG Std Det 222

(57) 6" Schedule 40 PVC Irrigation Pipe Sleeve 130 Lf
With Tracer Wire, See General Notes

(61) Construct 2'-6" Curb and Gutter Termination
See Detail on Sheet P52

(62) Acrylic Copolymer Surface Course Dust 879 Sy
Palliative

LEGEND

(1a) Pvmt Str Sect No. 1 **

(1b) Microsurfacing Aggregate, Type III

** Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk

SCALE: Hor: 1"=20'

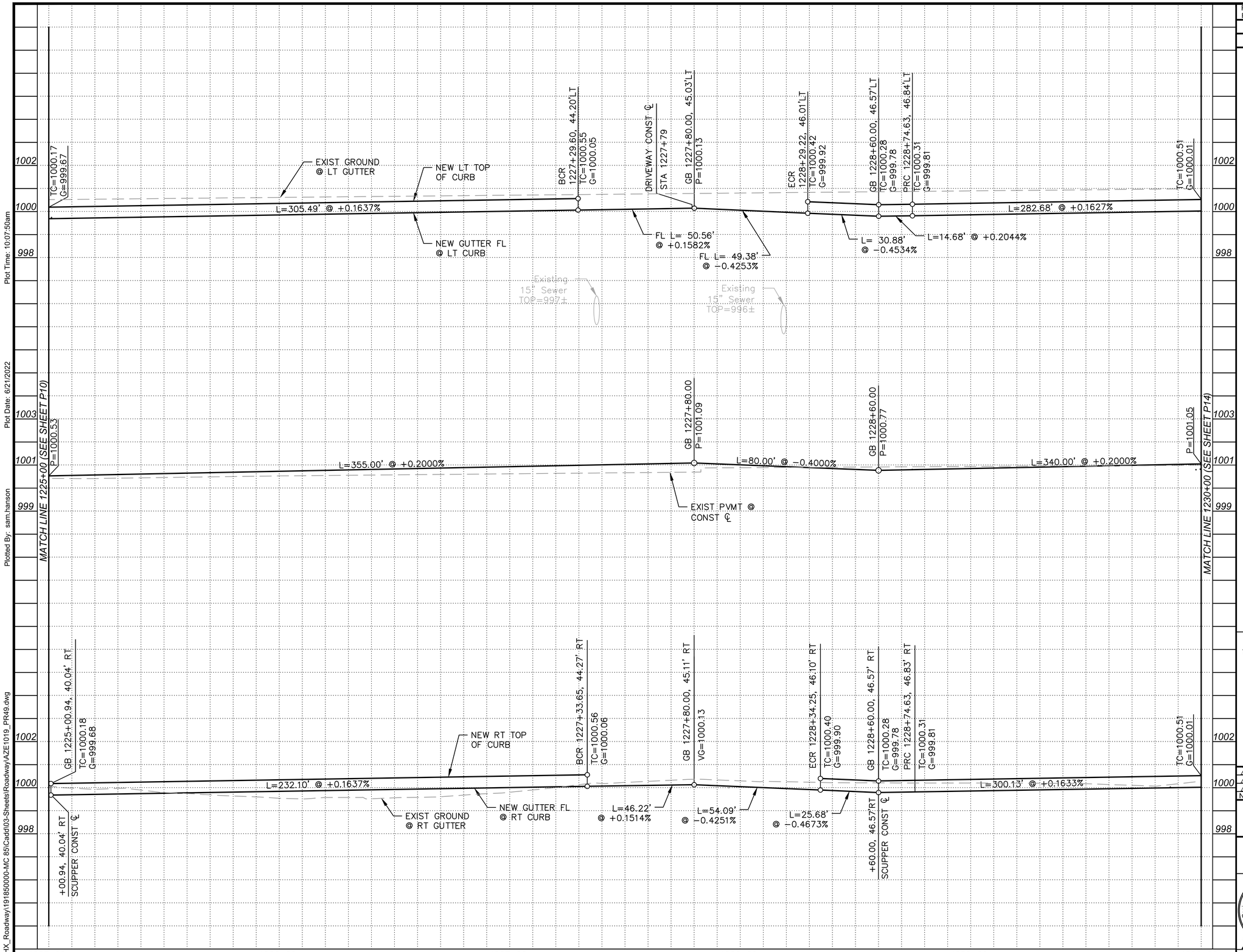
SCALE IN FEET 20 0 20 40

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or visit Arizona811.com

Plot Time: 3:22:48pm
Plot Date: 6/22/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL49.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	33	132	

CONSTRUCTION



GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06/30/22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

PAVING PROFILE
Sta 1225+00 to Sta 1230+00

SHEET
P12 OF P54

TRACS NO. _____

Plot Time: 10:07:50am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PR49.dwg

Plot Time: 8:16:13pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL50.dwg

SIDEWALK CONTROL POINTS

POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
325a	1231+64.27	63.87' Lt	1001.35	Match Exist
326	1231+87.49	63.96' Lt	1001.36	S/W FG
327	1231+75.59	59.01' Lt	1001.28	S/W FG
R327	1231+75.61	54.01' Lt	-	5.00' Radius
328	1232+58.14	64.07' Lt	1001.14	S/W FG
R328	1232+76.67	81.00' Lt	-	25.00' Radius
330	1232+76.40	59.04' Lt	1000.75	S/W FG
R330	1232+76.38	54.04' Lt	-	5.00' Radius
331	1233+19.54	63.82' Lt	1000.71	S/W FG
R331	1233+19.32	33.82' Lt	-	30.00' Radius
332	1233+32.15	60.97' Lt	1000.63	S/W FG
R332	1233+42.89	83.58' Lt	-	25.00' Radius
333	1233+42.89	58.58' Lt	1000.57	S/W FG
334	1233+34.95	53.39' Lt	1000.51	S/W FG
334a	1233+69.39	58.58' Lt	1000.62	S/W FG
R334	1233+34.33	52.61' Lt	-	1.00' Radius
335	1233+85.61	56.58' Lt	1000.66	S/W FG
R335	1233+69.39	83.58' Lt	-	25.00' Radius
R338	1233+86.45	56.03' Lt	-	1.00' Radius
336	1233+86.36	65.11' Lt	1000.79	S/W FG
R336	1234+06.65	42.91' Lt	-	30.00' Radius
337	1233+98.63	71.83' Lt	1000.95	S/W FG

CONSTRUCTION

(55) Construct New Conc C&G, Per Modified MAG Std Det 220, Type A 10" Thick Fibermesh Reinforced Conc See Sheet 74 Sta 1231+81 to Sta 1232+06 Lt Sta 1232+46 to Sta 1232+71 Lt — 79 Lf

(57) 6" Schedule 40 PVC Irrigation Pipe Sleeve With Tracer Wire, See General Notes — 302 Lf

(61) Construct 2'-6" Curb & Gutter Termination See Detail Sheet P52

(62) Acrylic Copolymer Surface Course Dust Palliative — 1072 Sy

LEGEND

(1a) Pvmt Str Sect No. 1 **

(1b) Microsurfacing Aggregate, Type III

** Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk

NOTES

1. Refer to Sheet P14 for MC 85 Profile.
2. Refer to Sheet D09 for Drainage Plan.
3. Refer to Sheet PL04 and PL05 for Signing & Striping Plan.
4. Refer to Sheet R08 for Removal Plan.
5. Refer to Sheet LT03 and LT04 for Lighting Plan.
6. Refer to Special Provisions for Existing Landscaping Restoration Payment.
7. Refer to Sheet P45 for Driveway Detail.
8. Refer to Sheet P49 for Median Detail.

SIDEWALK CONTROL POINTS

POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
R337	1234+06.65	42.91' Lt	-	25.00' Radius
338	1234+03.97	73.30' Lt	1001.00	S/W FG
339	1233+99.97	67.01' Lt	1000.93	S/W FG

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	34	132	

CONSTRUCTION

(1a) Construct New Roadway Per Structural Section No. 1a
Sta 1230+00 to Sta 1235+00
Lime Slurry Stabilization 8" Thick — 6449 Sy
Lime — 89 Tons
Cement — 59 Tons
AC (Superpave ½" Mix) 1 ½" Thick — 435 Tons
AC (Superpave ¾" Mix) 6 ½" Thick — 1886 Tons
AB, 5" Thick — 1783 Tons
Tack Coat — 4.30 Tons

(2) Construct New Conc C&G Per MAG Std Det 220, Type A — 527 Lf
Sta 1230+00 to Sta 1235+00 Rt
Sta 1233+44 to Sta 1233+56 Lt
Sta 20+77 to Sta 20+85 Lt

(3) Construct New Conc Sidewalk Per COP Std Det P1230 — 3339 Sf
Sta 1234+54 to Sta 1235+00 Lt
Sta 1230+00 to Sta 1235+00 Rt
Sta 1232+61 to Sta 1235+00 Med

(4) Construct New Conc Single Curb Per MAG Std Det 222, Type A — 769 Lf
Sta 1231+21 to Sta 1235+00 Med
Sta 20+80 to Sta 20+85 Rt

(5) Concrete Median Nose Per Sheet P49 — 120 Sf

(9) Construct New Mountable Conc C&G, Per Modified MAG Std Det 220, Type E 9" Thick Gutter Pan — 356 Lf
Sta 1230+00 to Sta 1231+79 Lt
Sta 1232+73 to Sta 1233+42 Lt
Sta 1233+58 to Sta 1233+72 Lt

(10) Construct New Return Type Driveway Per Modified COP Std Det P1243
10" Thick Fibermesh Reinforced Conc — 1288 Sf
Lime Slurry Stabilization 8" Thick — 156 Sy
Lime — 2 Tons
Cement — 1 Tons

(19) Concrete Sidewalk, COP Det P1230 Modified, 9" Thick, Class A Concrete — 1652 Sf
Sta 1231+64 to 1234+04 Lt
Sta 1231+76 to Sta 1232+05 Lt
Sta 1232+47 to Sta 1232+76 Lt

(25) Hydro Seeding - Native Seed Mix — 0.07 Acre
Sta 1231+64 to Sta 1232+06 Lt
Sta 1232+47 to Sta 1235+00 Lt

(26) Decomposed Granite, ¾", 2" Thick — 324 Sy
Sta 1231+21 to Sta 1232+60 Med
Sta 1232+71 to Sta 1233+35 Lt
Sta 1233+85 to Sta 1234+04 Lt
Sta 1234+89 to Sta 1235+00 Lt

(33) Construct 2' Curb Transition Per MAG Std Det 220-2, Type E to Type A

(34) Construct Bus Bay Pavement Per COP Std Det P1256-1, 9" Thick, Class A Concrete — 1 Ea
Sta 1233+74 to Sta 1235+00 Lt

(35) Construct Concrete Bus Shelter/Accessory Pad Per COP Std Det P1261 — 625 Sf
Sta 1234+04 to Sta 1234+54 Lt

SCALE: HOR: 1"=20'

20 0 20 40

SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-22-22 ARIZONA U.S.A.

Kimley»Horn

PAVING PLAN
Sta 1230+00 to Sta 1235+00

SHEET P13 OF P54

TRACS NO. _____

(5) CURVE DATA
PI=1237+05.64
N=336322.26
E=596874.26
Δ=09°41'38" Lt
D=00°35'05"
T=831.01'
L=1658.06'
R=9800.00'

CONSTRUCTION

(36) Construct Concrete Single Curb Per MAG Std Det 222, Type A Modified (Per COP Std Det 1256-1) Sta 1233+74 to Sta 1235+00 Lt — 127 Lf

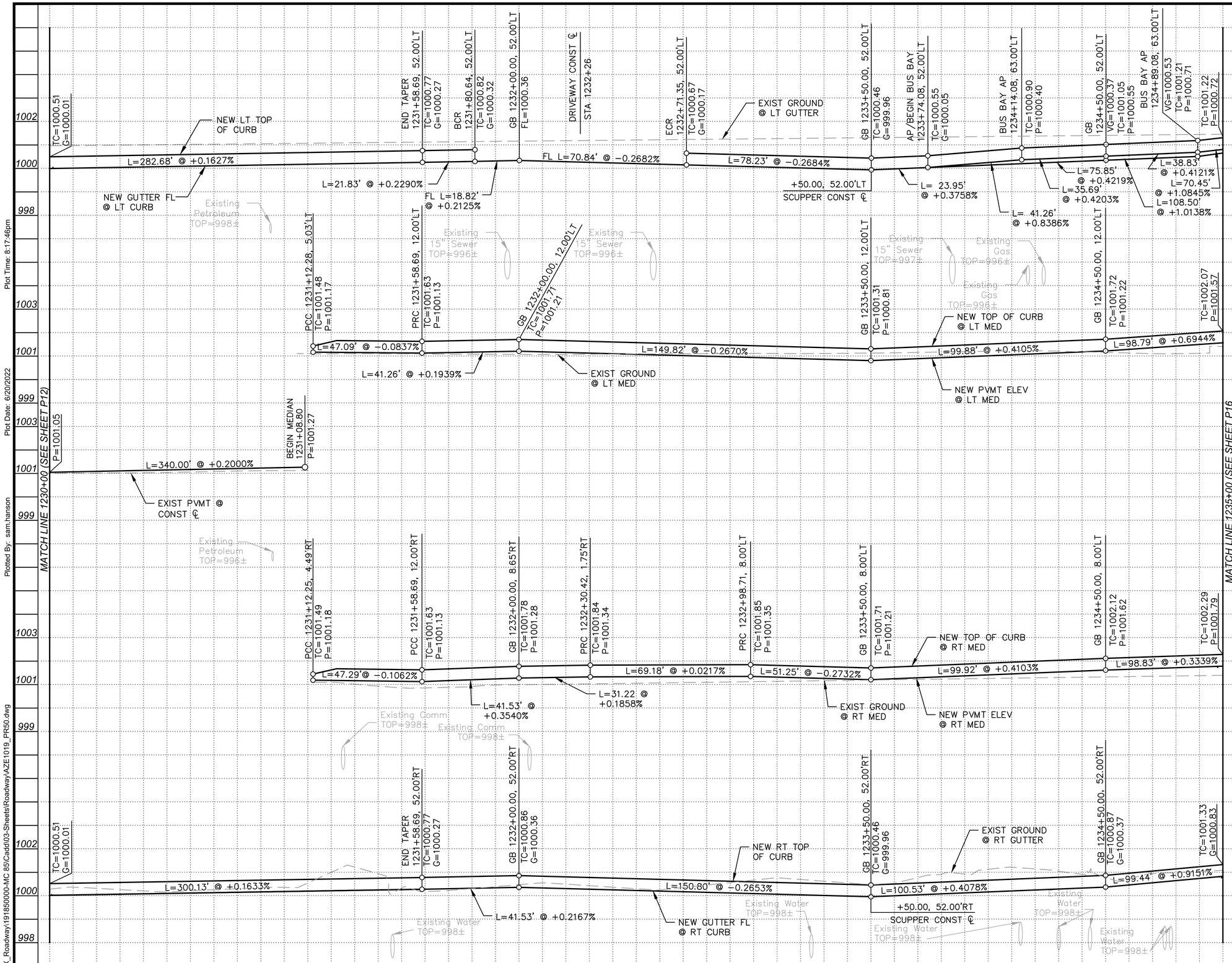
(47) Construct New Roadway Per Structural Section No. 1a
Sta 20+77 to Sta 20+85
Subgrade Prep — 36 Sy
AC (Superpave ½" Mix) 1 ½" Thick — 3 Tons
AC (Superpave ¾" Mix) 6 ½" Thick — 12 Tons
AB, 5" Thick — 9 Tons
Tack Coat — 0.03 Tons

(51) Construct 2'-6" Curb Termination Per MAG Std Det 222

(52) Construct New Conc Single Curb Per MAG Std Det 222,Type B, Sta 1231+21 Med Sta 1232+60 Med — 21 Lf

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	35	132	

○ CONSTRUCTION ○



GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06/22
ARIZONA U.S.A.

Kimley»Horn

PAVING PROFILE
Sta 1230+00 to Sta 1235+00

SHEET
P14 OF P54

TRACS NO. _____

Plot Date: 6/20/2022
Plot Time: 8:17:46pm
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PR50.dwg

Plot Time: 8:22:08pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL60.dwg

LEGEND

- (1a) Pvmt Str Sect No. 1 **
- (1b) Microsurfacing Aggregate, Type III
- (1c) Pvmt Str Sect No. 1c

** Lime/Cement Subbase Only to be Used at Mainline Roadway-Not Driveway Tie-in Areas

CONSTRUCTION CONT.

(25) Hydro Seeding - Native Seed Mix 0.05 Acre
Sta 1235+00 to Sta 1235+89 Lt
Sta 1236+97 to Sta 1239+50 Lt

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

SIDEWALK CONTROL POINTS

POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
717	318+60.49	56.99' Rt	1001.19	S/W FG
R717	318+33.94	39.42' Lt	-	100.00' Radius
R718	318+85.72	148.58' Rt	-	95.00' Radius
718	318+85.72	53.58' Rt	1001.29	S/W FG
719	318+74.26	48.71' Rt	1001.15	S/W FG
R719	318+74.11	47.72' Rt	-	1.00' Radius
R722	318+89.22	147.58' Rt	-	100.00' Radius
722	318+60.87	51.69' Rt	1001.11	S/W FG
R721	318+33.94	39.42' Lt	-	95.00' Radius
720	318+50.81	55.58' Lt	1000.02	S/W FG
R720	318+50.81	54.58' Lt	-	1.00' Radius

NOTES

1. Refer to Sheet P16 for MC 85 Profile.
2. Refer to Sheet D10 for Drainage Plans.
3. Refer to Sheet P38 for Intersection Staking Diagram.
4. Refer to Sheet PL05 for Signing & Striping Plan.
5. Refer to Sheet R09 for Removal Plan.
6. Refer to Sheet LT04 for Lighting Plan.
7. Refer to Special Provisions for Existing Landscape Restoration Payment.
8. Refer to Sheet P49 for MC 85 Median Details.
9. Refer to Sheet P51 for 91st Ave Median Details.
10. Refer to sheet G20 for TBM information.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	36	132	

CONSTRUCTION

(1a) Construct New Roadway Per Structural Section No. 1a
Sta 1235+00 to Sta 1239+50
Lime Slurry Stabilization 8" Thick 5501 Sy
Lime 76 Tons
Cement 51 Tons
AC (Superpave ½" Mix) 1 ½" Thick 392 Tons
AC (Superpave ¾" Mix) 6 ½" Thick 1699 Tons
AB, 5" Thick 1397 Tons
Tack Coat 3.87 Tons

(1b) Construct New Roadway Per Structural Section No. 1b
Microsurfacing Type III Aggregate 1953 Sy
Sta 1237+35 to Sta 1239+50

(2) Construct New Conc C&G 102 Lf
Per MAG Std Det 220, Type A
Sta 1235+00 to Sta 1235+49 Rt
Sta 1237+12 to Sta 1237+35 Rt
Sta 320+71 to Sta 321+00 Lt

(3) Construct New Conc Sidewalk 1898 Sf
Per COP Std Det P1230
Sta 1235+00 to Sta 1235+63 Lt
Sta 1237+25 to Sta 1237+58 Lt
Sta 1235+00 to Sta 1235+49 Rt
Sta 1237+12 to Sta 1237+45 Rt
Sta 318+50 to Sta 318+95 Lt
Sta 320+71 to Sta 321+00 Lt
Sta 318+50 to Sta 319+05 Rt
Sta 320+85 to Sta 321+00 Rt
Sta 1235+00 to Sta 1235+39 Med
Sta 1237+47 to Sta 1239+50 Med
Sta 318+50 to Sta 318+85 Med
Sta 320+90 to Sta 321+00 Med

(4) Construct New Conc Single Curb 574 Lf
Per MAG Std Det 222, Type A
Sta 1235+00 to Sta 1235+39 Med
Sta 1237+47 to Sta 1239+50 Med
Sta 318+50 to Sta 318+85 Med
Sta 320+90 to Sta 321+00 Med

(5) Concrete Median Nose 177 Sf
Per Sheet P49

(9) Construct New Mountable Conc C&G, 105 Lf
Per Modified MAG Std Det 220, Type E
9" Thick Gutter Pan
Sta 1237+27 to Sta 1237+57 Lt
Sta 318+50 to Sta 319+05 Rt
Sta 320+87 to Sta 321+00 Rt

(11) Construct New Conc Sidewalk Ramp
Per COP Std Det P1233
(See Sheet P38 for additional control)
Sta 1235+48.91, 87.00' Rt (RP)

(12) Construct New Conc Sidewalk Ramp
Per Modified COP Std Det P1236
(See Sidewalk Control Points For Modifications)
(See Sheet P38 for additional control)
Sta 1235+59.08, 87.00' Lt (RP)
Sta 1237+24.82, 87.00' Lt (RP)
Sta 1237+11.91, 87.00' Rt (RP)

(19) Concrete Sidewalk, COP Det P1230 2930 Sf
Modified, 9" Thick, Class A Concrete
Sta 1235+63 to Sta 1235+94 Lt
Sta 1236+90 to Sta 1237+25 Lt
Sta 1235+49 to Sta 1235+83 Rt
Sta 1236+78 to Sta 1237+12 Rt

(21) Install Survey Marker 1 Ea
Per MAG Std Det 120, Type B
Sta 320+00.00, 0.00' Lt

(22) Install Survey Marker 1 Ea
Per MAG Std Det 120, Type A
Sta 1236+36.77, 0.00' Lt
Sta 1236+58.62, 10.48' Lt

(5) CURVE DATA
PI=1237+05.64
N=336322.26
E=596874.26
Δ=09°41'38" Lt
D=00°35'05"
T=831.01'
L=1658.06'
R=9800.00'

CONSTRUCTION CONT.

(50) Construct New Detectable Warning Strip
Per COP Std Det P1232

(52) Construct New Conc Single Curb 16 Lf
Per MAG Std Det 222,Type B,
Sta 318+85 Med and Sta 320+90 Med
Sta 1235+39 Med and Sta 1237+47 Med

(56) Construct New Conc C&G, 225 Lf
Per Modified MAG Std Det 220, Type A, H=6"
9" Thick Gutter Pan
Sta 1235+49 to Sta 1235+84 Rt
Sta 1235+59 to Sta 1235+94 Lt
Sta 1236+77 to Sta 1237+12 Rt
Sta 1236+88 to Sta 1237+25 Lt

(57) 6" Schedule 40 PVC Irrigation Pipe Sleeve 47 Lf
With Tracer Wire, See General Notes

(62) Acrylic Copolymer Surface Course Dust 245 Sy
Palliative

(1c) Construct New Roadway Per Structural Section No. 1c
Sta 1237+57 to Sta 1237+90 Lt
Sta 1237+50 to Sta 1239+35 Rt
AC (Superpave ½" Mix) 2" Thick 105 Tons
Tack Coat 0.78 Tons

CONSTRUCTION CONT.

(26) Decomposed Granite ¾", 2" Thick 56 Sy
Sta 1235+00 to Sta 1235+63 Lt
Sta 318+50 to Sta 318+75 Rt

(33) Construct 2' Curb Transition
Per MAG Std Det 220-2, Type E to Type A

(34) Construct Bus Bay Pavement Per COP
Std Det P1256-1, 9" Thick, Class A Concrete
Sta 1235+00 to Sta 1235+59 Lt
Sta 318+50 to Sta 318+95 Lt

(36) Construct Concrete Single Curb Per MAG Std 105 Lf
Det 222, Type A Modified (Per COP Std Det 1256-1)
Sta 1235+00 to Sta 1235+59 Lt
Sta 318+50 to Sta 318+95 Lt

SIDEWALK CONTROL POINTS

POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
347	1235+87.71	85.57' Lt	1001.57	Modified COP 1236
348	1235+64.92	64.11' Lt	1002.06	Modified COP 1236
349	1235+55.70	65.58' Rt	1001.86	Modified COP 1236
350	1235+70.55	81.58' Rt	1001.54	Modified COP 1236
351	1237+44.01	60.05' Rt	1002.05	S/W FG
352	1235+62.79	59.18' Lt	1002.02	Modified COP 1236
353	1235+75.02	88.95' Rt	1001.38	Modified COP 1236
354	1236+83.67	86.72' Rt	1001.37	Modified COP 1236
355	1237+11.91	58.58' Rt	1002.00	Modified COP 1236
356	1237+24.82	58.58' Lt	1001.67	Modified COP 1236
357	1236+96.51	93.71' Lt	1007.41	Modified COP 1236

NO.	REVISION	BY	DATE

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/20/22 ARIZONA U.S.A.

Kimley»Horn

PAVING PLAN
Sta 1235+00 to Sta 1239+50

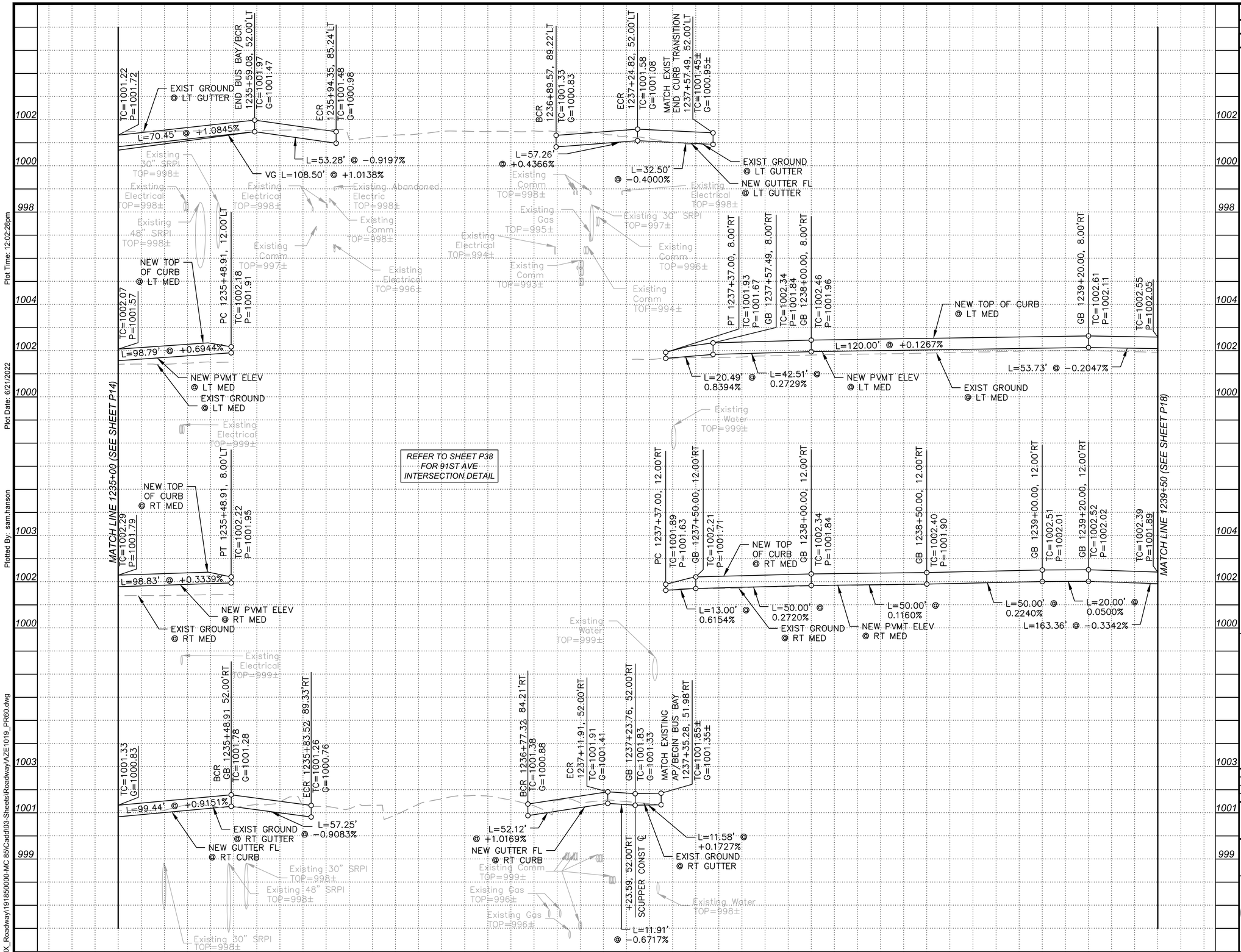
SHEET P15 OF P54

TRACS NO. _____

Arizona811.com
Dial 811 or visit Arizona811.com
Blue Stake, Inc. Arizona 811 at least two full working days before you begin excavation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	37	132	

○ CONSTRUCTION ○



GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO. 75511
MARK FLOOD
Date Signed 06/22/22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

PAVING PROFILE
Sta 1235+00 to Sta 1239+50

SHEET P16 OF P54

TRACS NO. _____

Plot Time: 12:02:28pm
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PR60.dwg

Plot Time: 8:28:10pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL61.dwg

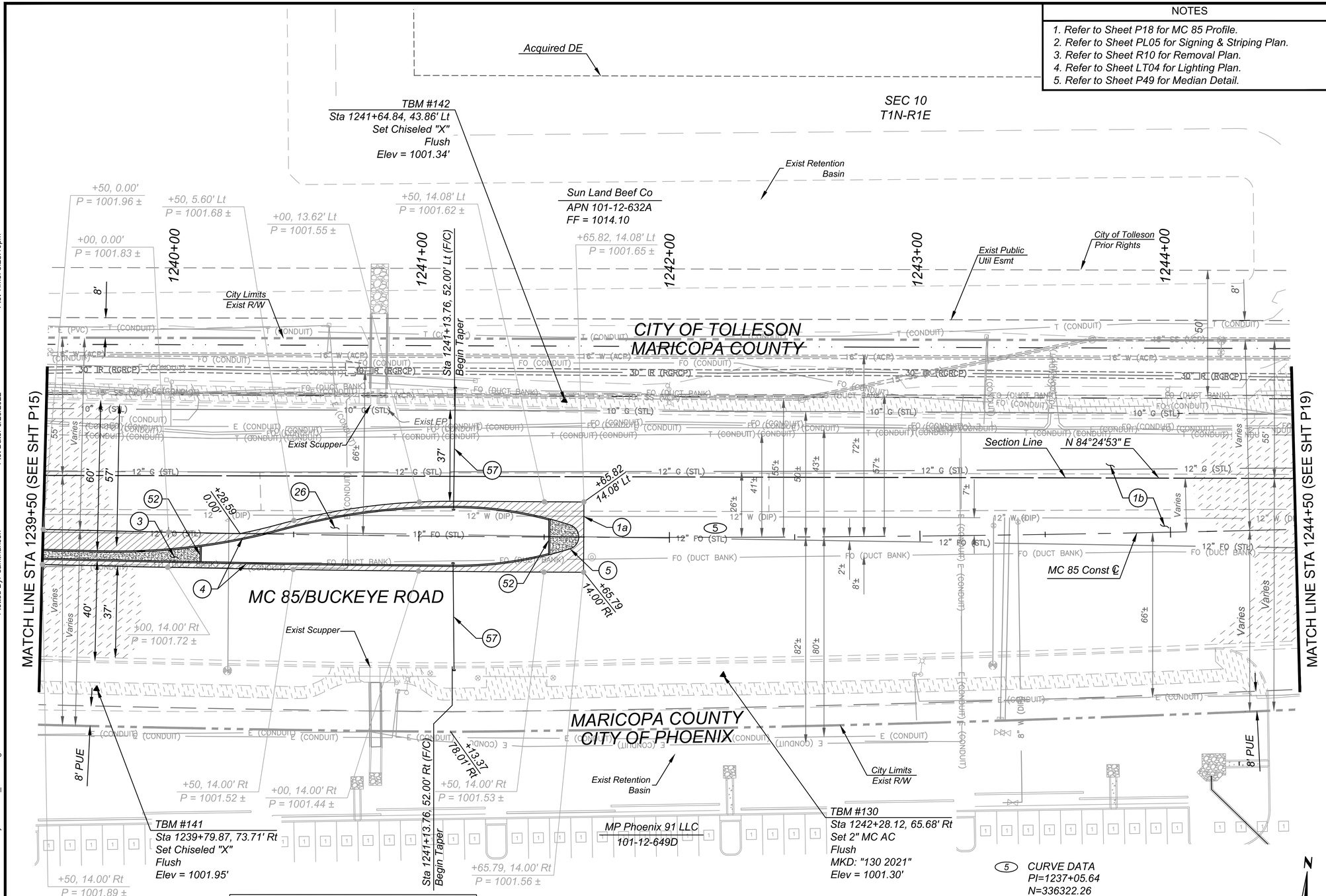
NOTES

1. Refer to Sheet P18 for MC 85 Profile.
2. Refer to Sheet PL05 for Signing & Striping Plan.
3. Refer to Sheet R10 for Removal Plan.
4. Refer to Sheet LT04 for Lighting Plan.
5. Refer to Sheet P49 for Median Detail.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	38	132	

CONSTRUCTION

1a	Construct New Roadway Per Structural Section No. 1a Sta 1239+50 to Sta 1241+66	
	Lime Stabilized Subbase, 8" Thick	366 Sy
	Lime	5 Tons
	Cement	3 Tons
	AC (Superpave ½" Mix) 1 ½" Thick	15 Tons
	AC (Superpave ¾" Mix) 6 ½" Thick	63 Tons
	AB, 5" Thick	82 Tons
	Tack Coat	0.14 Tons
1b	Construct New Roadway Per Structural Section No. 1b Microsurfacing Type III Aggregate Sta 1239+50 to Sta 1244+50	4889 Sy
3	Construct New Conc Sidewalk Per COP Std Det P1230 Sta 1239+50 to Sta 1240+13 Med	228 Sf
4	Construct New Conc Single Curb Per MAG Std Det 222,Type A Sta 1239+50 to Sta 1241+52 Med	407 Lf
5	Concrete Median Nose Per Sheet P49	120 Sf
26	Decomposed Granite, ¾", 2" Thick Sta 1240+13 to Sta 1241+52 Med	267 Sy
52	Construct New Conc Single Curb Per MAG Std Det 222,Type B, Sta 1240+13 Med Sta 1241+52 Med	21 Lf
57	6" Schedule 40 PVC Irrigation Pipe Sleeve With Tracer Wire, See General Notes	92 Lf



LEGEND

- 1a — Pvmt Str Sect No. 1 **
- 1b — Microsurfacing Aggregate, Type III

** Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk

(5) CURVE DATA

PI=1237+05.64
N=336322.26
E=596874.26
Δ=09°41'38" Lt
D=00°35'05"
T=831.01'
L=1658.06'
R=9800.00'

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

Scottsdale Arizona 811 at least two full working days before you begin excavation
Arizona Blue Stake, Inc.
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
STATE OF ARIZONA

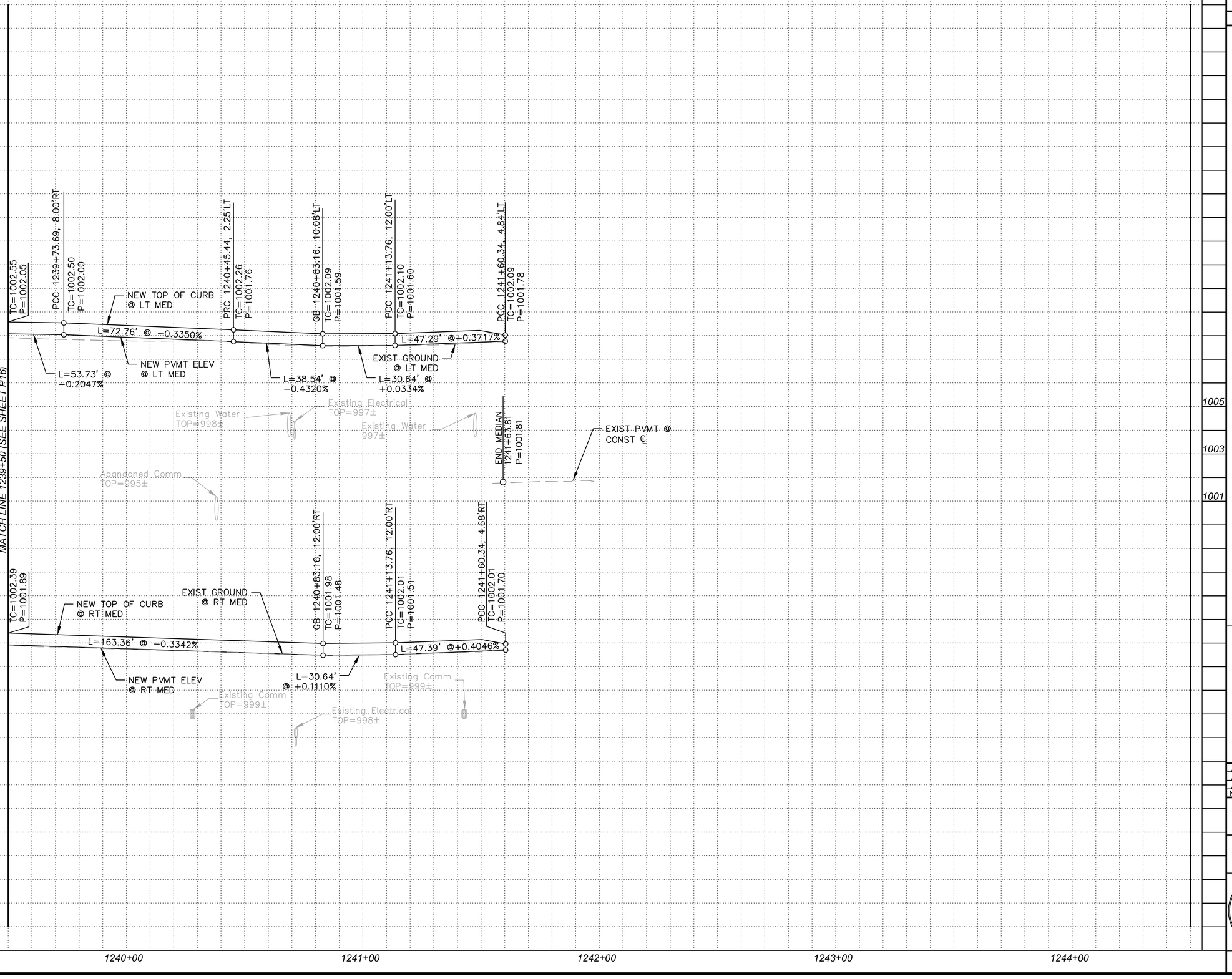
	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

PAVING PLAN
Sta 1239+50 to Sta 1244+50

SHEET P17 OF P54

TRACS NO. _____



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	39	132	

○ CONSTRUCTION ○

GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
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Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.
Mark Flood

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

PAVING PROFILE
Sta 1239+50 to Sta 1244+50

SHEET
P18 OF P54

TRACS NO. _____

Plot Time: 8:29:34pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PR61.dwg

Plot Time: 8:33:57pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL62.dwg

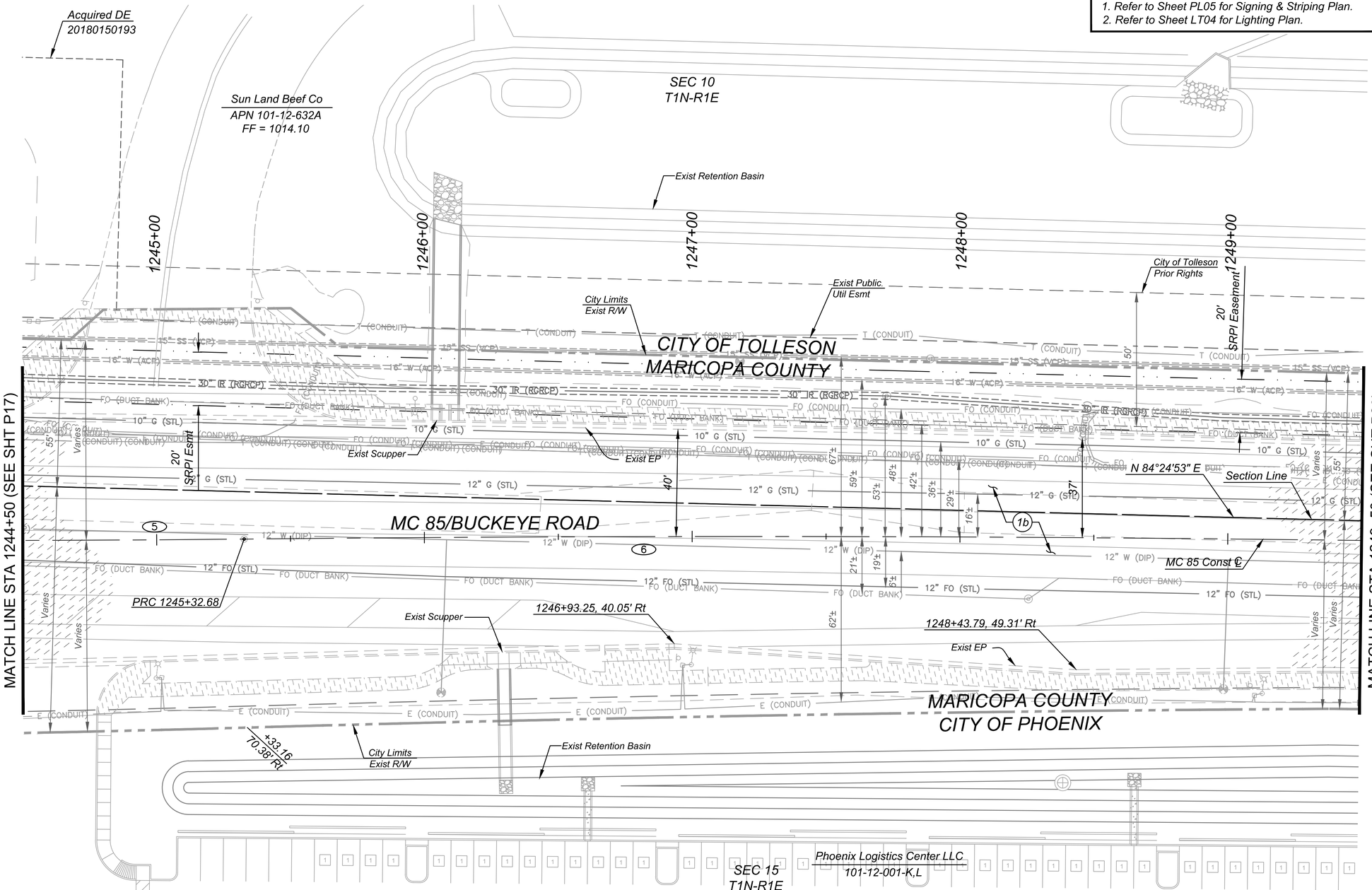
NOTES

1. Refer to Sheet PL05 for Signing & Striping Plan.
2. Refer to Sheet LT04 for Lighting Plan.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	40	132	

○ CONSTRUCTION ○

(1b) Construct New Roadway Per Structural Section No. 1b
Microsurfacing Type III Aggregate 4682 Sy
Sta 1244+50 to 1249+50



(5) CURVE DATA
PI=1237+05.64
N=336322.26
E=596874.26
Δ=09°41'38" Lt
D=00°35'05"
T=831.01'
L=1658.06'
R=9800.00'

(6) CURVE DATA
PI=1248+11.08
N=336470.29
E=597973.75
Δ=01°46'20" Rt
D=00°19'06"
T=278.39'
L=556.74'
R=18000.00'

LEGEND

(1a) Pvmt Str Sect No. 1 **

(1b) Microsurfacing Aggregate, Type III

** Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
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NO.	REVISION	BY	DATE
1			
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3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/20/22 Not Valid Unless Signed

Kimley»Horn

PAVING PLAN
Sta 1244+50 to Sta 1249+50

SHEET P19 OF P54

TRACS NO. _____

NOTES
1. Refer to Sheet PL05 and PL06 for Signing & Striping Plan.
2. Refer to Sheet LT04 for Lighting Plan.
3. Refer to Special Provisions for Existing Landscape Resoration Payment.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	41	132	

○ CONSTRUCTION ○

(1b) *Construct New Roadway Per Structural Section No. 1b* *4108 Sy*
Microsurfacing Type III Aggregate
Sta 1249+50 to Sta 1254+50

Sun Land Beef Co
APN 101-12-632A
FF = 1014.10

SEC 10
T1N-R1E

Exist Retention Basin

TKW Properties LLC
APN 101-11-012D
FF = 1004.70

89th Ave

1250+00 | 1251+00 | 1252+00 | 1253+00 | 1254+00

City of Tolleson Prior Rights

+38.38 80.90' Lt | +80.15 80.90' Lt | +98.14 61.90' Lt | +20.73 61.56' Lt | +45.18 80.89' Lt | +43.11 59.14' Lt

City Limits Exist R/W | *Exist Public Util Esmt*

CITY OF TOLLESON
MARICOPA COUNTY

MATCH LINE STA 1249+50 (SEE SHT P19)

MATCH LINE STA 1254+50 (SEE SHT P21)

16" W (ACP) | 15" SS (VCP) | FO (CONDUIT) | E (CONDUIT) | T (CONDUIT) | 30" JR (RGRCP) | FO (DUCT BANK) | 10" G (STL) | 12" G (STL) | 12" W (DIP) | 12" FO (STL)

Exist C&G | *Exist Scupper* | *Exist EP*

PT 1250+89.43

Section Line

N 84°24'53" E

N 84°06'17" E 1634.15'

MC 85 Const ℄

MC 85/BUCKEYE ROAD

1251+12.00, 35.67' Rt

1250+19.36, 47.58' Rt

MARICOPA COUNTY
CITY OF PHOENIX

Exist Retention Basin

+23.91 63.00' Rt | +31.76 76.02' Rt | +97.92 63.00' Rt | +87.16 76.02' Rt

8' PUE

SRPI Esmt

City Limits Exist R/W

MP Phoenix 91 LLC
101-12-649D

(6) *CURVE DATA*
PI=1248+11.08
N=336470.29
E=597973.75
Δ=01°46'20" Rt
D=00°19'06"
T=278.39'
L=556.74'
R=18000.00'

SEC 15
T1N-R1E

MRE PAZ LLC
101-12-001J

LEGEND	
(1a)	*Pvmt Str Sect No. 1* **
(1b)	*Microsurfacing Aggregate, Type III*
** *Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk*	

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO. 75511
MARK FLOOD
Date Signed 06-22-22
Arizona, U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

PAVING PLAN
Sta 1249+50 to Sta 1254+50

SHEET P20 OF P54

TRACS NO. _____

Plot Time: 8:38:22pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL63.dwg

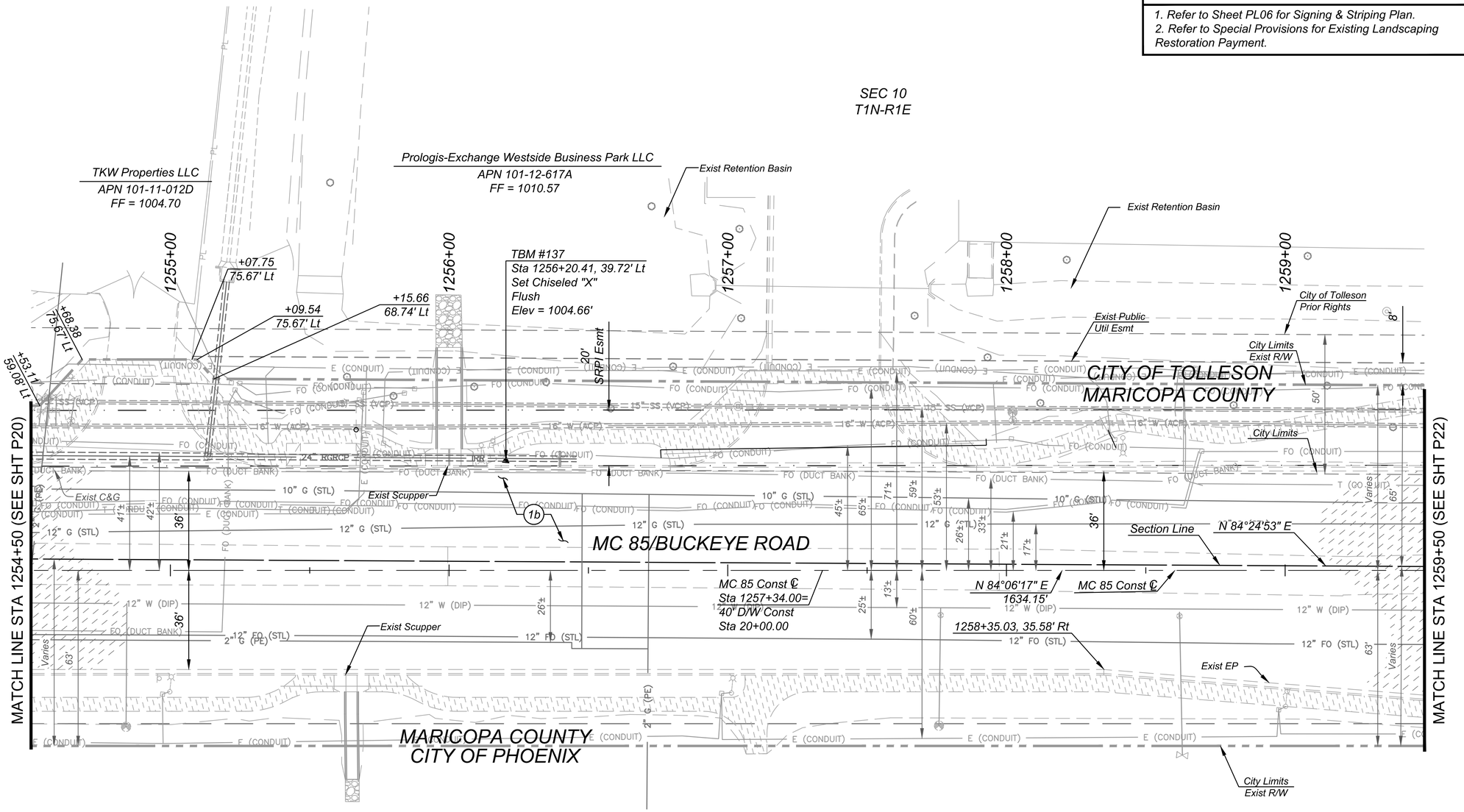
Plot Time: 8:42:38pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL64.dwg

NOTES
1. Refer to Sheet PL06 for Signing & Striping Plan.
2. Refer to Special Provisions for Existing Landscaping Restoration Payment.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	42	132	

○ CONSTRUCTION ○

(1b) Construct New Roadway Per Structural Section No. 1b
Microsurfacing Type III Aggregate 4012 Sy
Sta 1254+50 to Sta 1259+50



LEGEND	
(1a)	Pvmt Str Sect No. 1 **
(1b)	Microsurfacing Aggregate, Type III
**	Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

PAVING PLAN
Sta 1254+50 to Sta 1259+50

SHEET
P21 OF P54

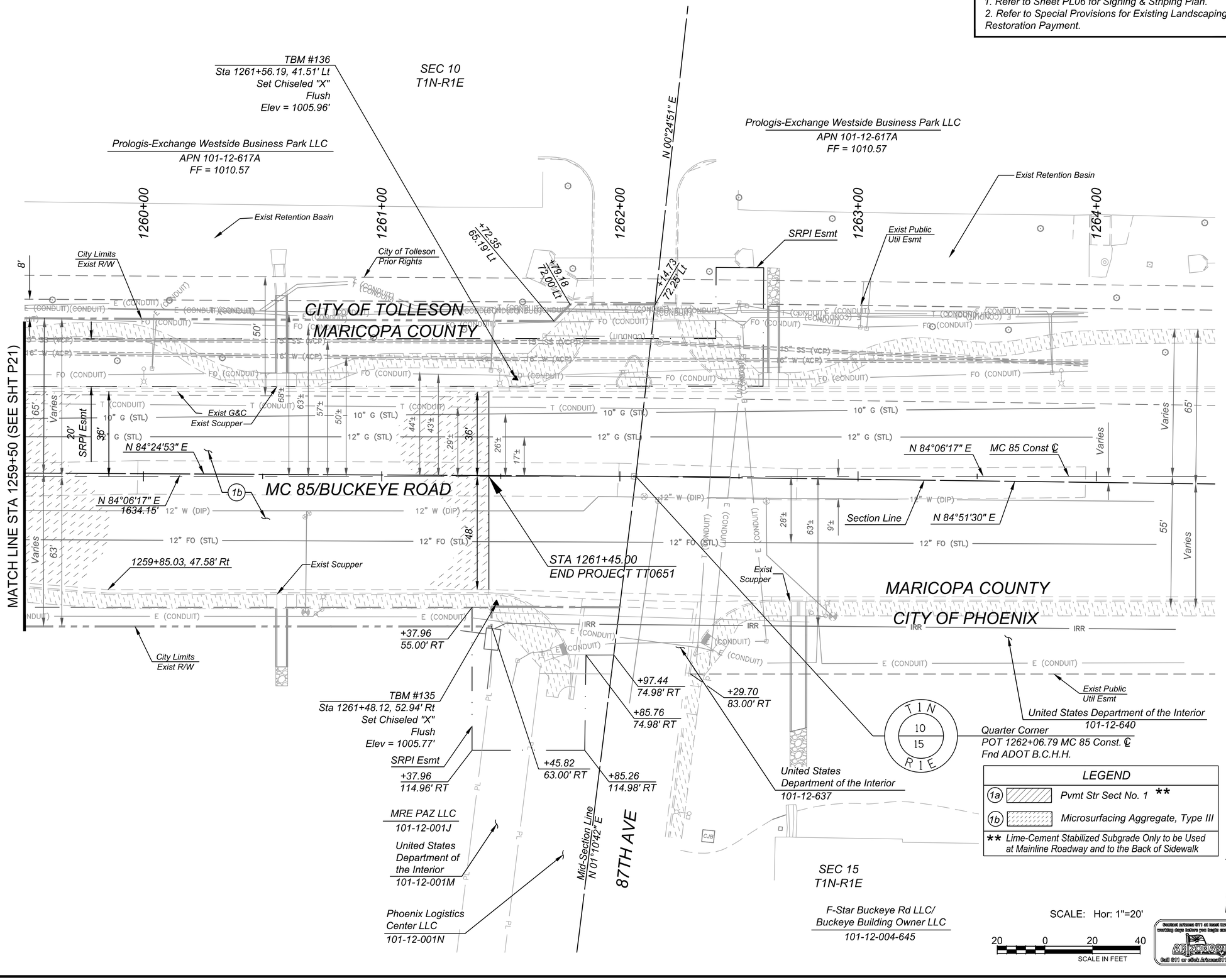
TRACS NO. _____

NOTES
1. Refer to Sheet PL06 for Signing & Striping Plan.
2. Refer to Special Provisions for Existing Landscaping Restoration Payment.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	43	132	

○ CONSTRUCTION ○

(1b) Construct New Roadway Per Structural Section No. 1b
Microsurfacing Type III Aggregate
Sta 1259+50 to Sta 1261+45 1796 Sy



NO.	REVISION	BY	DATE
1			
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3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO. 75511
MARK FLOOD
Date Signed 06-24-22

Kimley»Horn

PAVING PLAN
Sta 1259+50 to Sta 1261+45

SHEET P22 OF P54

TRACS NO. _____

Plot Time: 2:49:04pm
Plot Date: 6/22/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL65.dwg

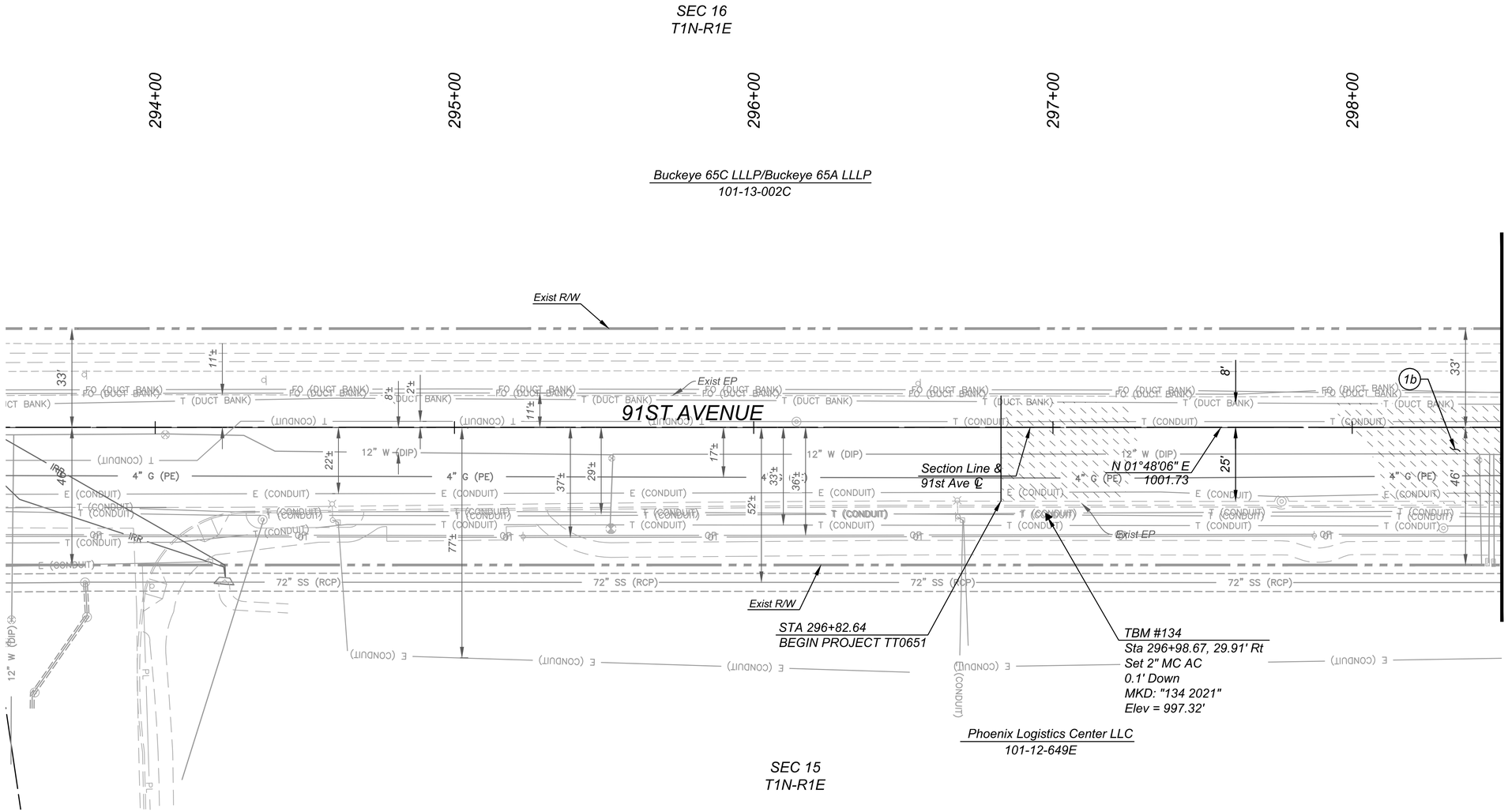
Plot Time: 8:50:58pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL599.dwg

NOTES
1. Refer to Sheet PL08 for Signing & Striping Plan.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	44	132	

○ CONSTRUCTION ○

(1b) *Construct New Roadway Per Structural Section No. 1b*
Microsurfacting Type III Aggregate *609 Sy*
Sta 296+83 to Sta 298+50



LEGEND	
(1a)	Pvmt Str Sect No. 1 **
(1b)	Microsurfacing Aggregate, Type III
**	Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
3			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO. 75511
MARK FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

91st Ave PAVING PLAN
Sta 296+83 to Sta 298+50

SHEET P23 OF P54

TRACS NO. _____

Plot Time: 8:55:33pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL600.dwg

NOTES

1. Refer to Sheet PL08 for Signing & Striping Plan.
2. Refer to Sheet R11 for Removal Plan.
3. Refer to Sheet P46 for Driveway Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	45	132	

CONSTRUCTION

(1a) Construct New Roadway Per Structural Section No. 1a
Sta 299+41 to Sta 303+50

Lime Slurry Stabilization 8" Thick	1259 Sy
Lime	17 Tons
Cement	12 Tons
AC (Superpave ½" Mix) 1 ½" Thick	106 Tons
AC (Superpave ¾" Mix) 6 ½" Thick	460 Tons
AB, 5" Thick	355 Tons
Tack Coat	1.05 Tons

(1b) Construct New Roadway Per Structural Section No. 1b
Microsurfacing Type III Aggregate 1687 Sy
Sta 298+50 to Sta 303+50

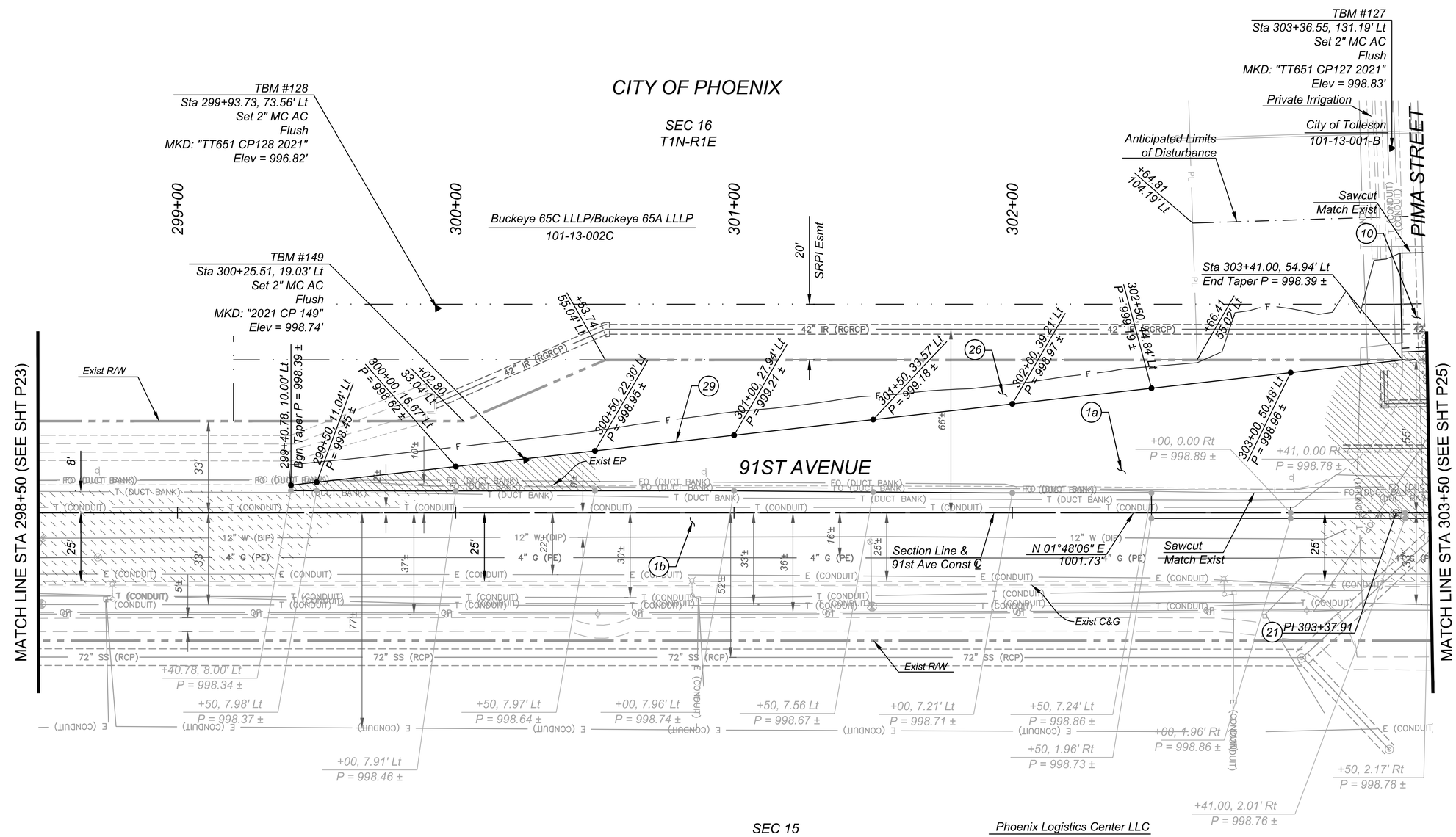
(10) Construct New Return Type Driveway
Per Modified COP Std Det P1243

10" Thick Fibermesh Reinforced Conc	311 Sf
Lime Slurry Stabilization 8" Thick	35 Sy
Lime	1 Tons
Cement	1 Tons

(21) Install Survey Marker 1 Ea
Per MAG Std Det 120, Type B
Sta 303+37.91

(29) Construct Safety Edge
Per MAG Std Det 201 Safety Edge

(26) Decomposed Granite, ¾", 2" Thick 942 Sy
Sta 299+38 to Sta 303+41 Lt



LEGEND

(1a) Pvmt Str Sect No. 1 **

(1b) Microsurfacing Aggregate, Type III

** Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
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NO.	REVISION	BY	DATE
3			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

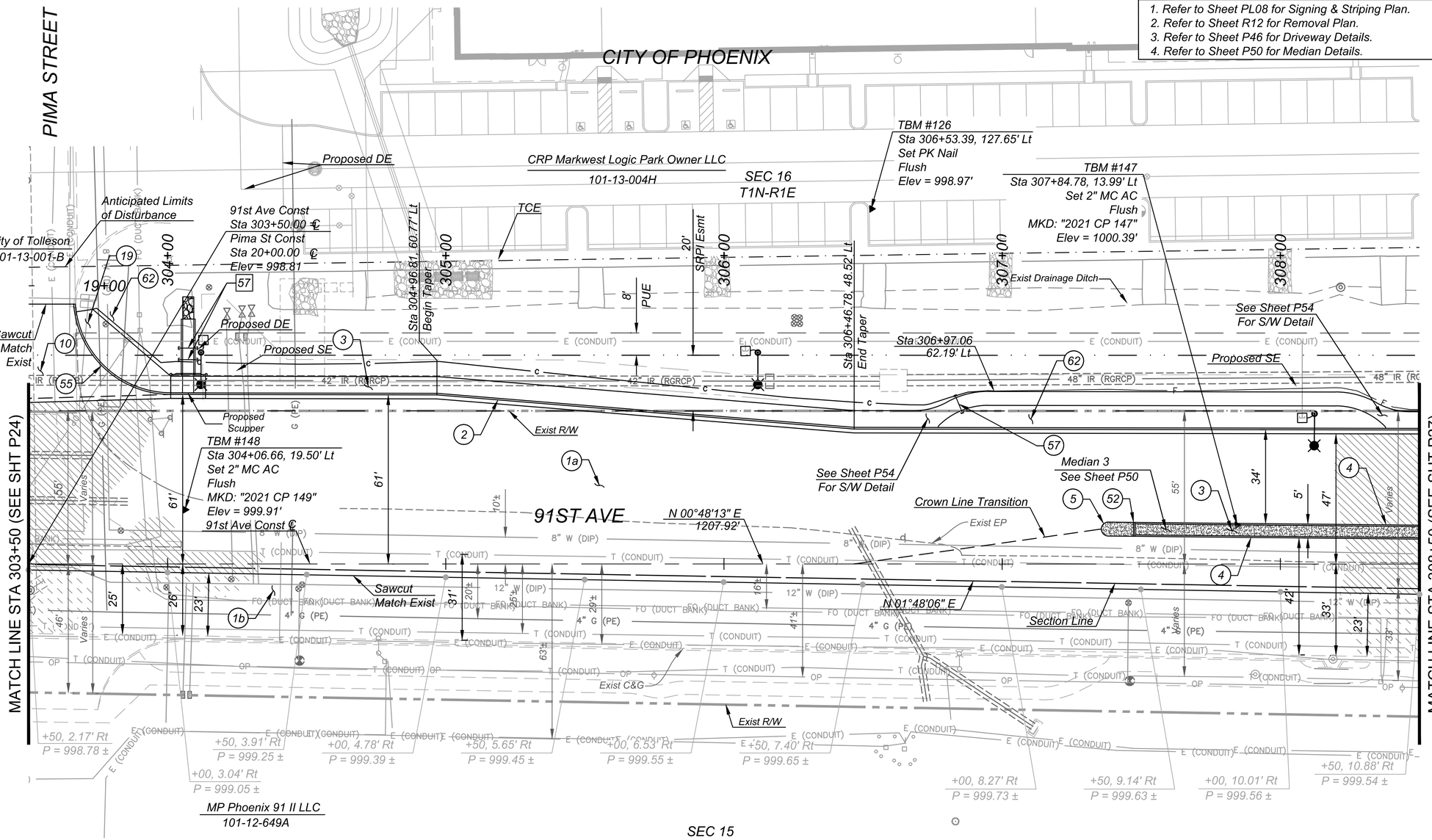
Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

Kimley»Horn

91st Ave PAVING PLAN
Sta 298+50 to Sta 303+50

SHEET P24 OF P54

TRACS NO. _____



NOTES

1. Refer to Sheet PL08 for Signing & Striping Plan.
2. Refer to Sheet R12 for Removal Plan.
3. Refer to Sheet P46 for Driveway Details.
4. Refer to Sheet P50 for Median Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	46	132	

CONSTRUCTION

(1a)	*Construct New Roadway Per Structural Section No. 1a*	
	Sta 303+50 to Sta 308+50	
	Lime Slurry Stabilization 8" Thick	*3803 Sy*
	Lime	*53 Tons*
	Cement	*35 Tons*
	AC (Superpave ½" Mix) 1 ½" Thick	*271 Tons*
	AC (Superpave ¾" Mix) 6 ½" Thick	*1174 Tons*
	AB, 5" Thick	*952 Tons*
	Tack Coat	*2.68 Tons*
(1b)	*Construct New Roadway Per Structural Section No. 1b*	
	Microsurfacing Type III Aggregate	*1253 Sy*
	Sta 303+50 to Sta 308+50	
(2)	*Construct New Conc C&G*	
	Per MAG Std Det 220, Type A	*510 Lf*
	Sta 303+96 to Sta 308+50 Lt	
(3)	*Construct New Conc Sidewalk*	
	Per COP Std Det P1230	*3001 Sf*
	Sta 303+96 to Sta 308+50 Lt	
	Sta 307+48 to Sta 308+50 Med	
(4)	*Construct New Conc Single Curb*	
	Per MAG Std Det 222, Type A	*205 Lf*
	Sta 307+48 to Sta 308+50 Med	
(5)	*Concrete Median Nose*	
	Per Sheet P50	*55 Sf*
(10)	*Construct New Return Type Driveway*	
	Per Modified COP Std Det P1243	
	10" Thick Fibermesh Reinforced Conc	*731 Sf*
	Lime Slurry Stabilization 8" Thick	*89 Sy*
	Lime	*1 Tons*
	Cement	*1 Tons*
(19)	*Concrete Sidewalk, COP Det P1230*	
	Modified, 9" Thick, Class A Concrete	*400 Sf*
	Sta 303+67 to 303+96 Lt	
(52)	*Construct New Conc Single Curb*	
	Per MAG Std Det 222,Type B,	*5 Lf*
	Sta 307+48 Med	
(55)	*Construct New Conc C&G,*	
	Per Modified MAG Std Det 220, Type A	*49 Lf*
	10" Thick Fibermesh Reinforced Conc	
	See Sheet 74	
	Sta 303+66 to Sta 303+96 Lt	
(57)	*6" Schedule 40 PVC Irrigation Pipe Sleeve With Tracer Wire, See General Notes*	*21 Lf*
(62)	*Acrylic Copolymer Surface Course Dust Palliative*	*802 Sy*

LEGEND

(1a)	*Pvmt Str Sect No. 1* **
(1b)	*Microsurfacing Aggregate, Type III*

** *Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk*

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
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NO.	REVISION	BY	DATE
1			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-22-22 ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

91st Ave PAVING PLAN
Sta 303+50 to Sta 308+50

SHEET P25 OF P54

TRACS NO. _____

Plot Time: 2:49:41pm
Plot Date: 6/22/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL601.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	47	132	

○ CONSTRUCTION ○

ECR 304+01.11, 60.94' LT
TC=998.42
P=997.92

304+07.36, 60.92' LT
SCUPPER CONST ℄
TC=998.35
G=997.90

L=6.25'
@ −0.3200%

L=89.45' @ +0.3242%

AP 304+96.81, 60.77' LT
TC=998.69
P=998.19

NEW GUTTER FL
@ LT CURB

L=150.48' @ +0.3589%

EXIST GROUND
@ LT GUTTER

AP 306+46.78, 48.52' LT
TC=999.23
G=998.73

L=91.44' @ +0.6015%

GB 307+38.22, 48.37' LT
TC=999.78
G=999.28

L=11.78'
@ −0.5093%

GB 307+50.00, 48.35' LT
TC=999.72
G=999.22

NEW TOP OF CURB
@ LT CURB

L=107.86' @ −0.1726%

TC=999.54
G=999.26

Existing
Electric
TOP=995±

Existing Communication
TOP=993±

Existing Communication
TOP=993±

Existing Water

Existing Gas

Existing Water

Existing Water

Existing Gas

REFER TO SHEET P25
FOR STAKING
INFORMATION

PC 307+38.22, 15.05' LT
TC=1000.28
P=1000.00

GB 307+50.00, 14.94' LT
TC=1000.44
P=999.94

NEW TOP OF
CURB @ LT MED

L=107.87' @ +0.0858%

TC=1000.50
P=1000.00

L=11.78' @
−0.4928%

NEW PVMT ELEV
@ LT MED

EXIST GROUND
@ LT MED

MATCH LINE 308+50 (SEE SHEET P28)

GB 303+96.21
P=999.11

L=100.69' @ +0.3438%

GB 304+96.81
P=999.46

NEW PVMT @
CONST ℄

L=149.97' @ +0.1976%

BEGIN CROWN TRANSITION
PCC 306+46.78
P=999.76

L=89.80' @ +0.3202%

END CROWN LINE TRANSITION
307+35.70, 12.58' LT
P=1000.04

EXIST PVMT @
CONST ℄

PT 307+38.17, 10.05' LT
TC=1000.28
P=1000.00

GB 307+50.00, 9.94' LT
TC=1000.44
P=999.94

NEW TOP OF CURB
@ RT MED

TC=1000.50
P=1000.00

L=107.87' @ +0.0858%

L=11.78'
@ −0.4928%

NEW PVMT ELEV
@ RT MED

EXIST GROUND
@ RT MED

998 1000 1002 997 999 1001

304+00 305+00 306+00 307+00 308+00

GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.
2. SEE SHEET P25 FOR EXISTING SAWCUT ELEVATIONS.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
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NO.	REVISION	BY	DATE
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

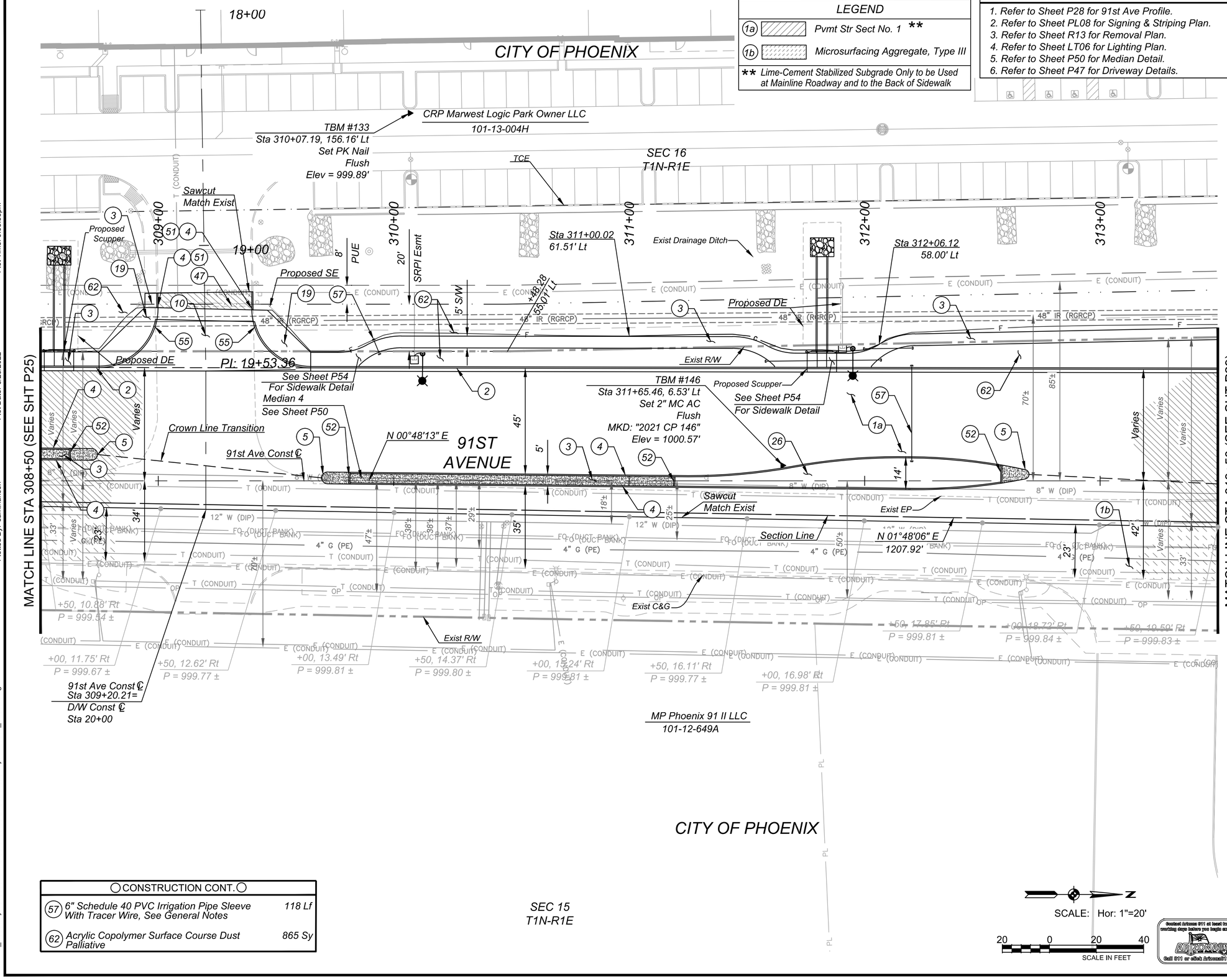
Kimley»Horn

91st Ave PAVING PROFILE
Sta 303+50 to Sta 308+50

SHEET
P26 OF P54

TRACS NO. _____

Plot Time: 9:01:28pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PR601.dwg



LEGEND

(1a)	Pvmt Str Sect No. 1 **
(1b)	Microsurfacing Aggregate, Type III

** Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk

NOTES

1. Refer to Sheet P28 for 91st Ave Profile.
2. Refer to Sheet PL08 for Signing & Striping Plan.
3. Refer to Sheet R13 for Removal Plan.
4. Refer to Sheet LT06 for Lighting Plan.
5. Refer to Sheet P50 for Median Detail.
6. Refer to Sheet P47 for Driveway Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	48	132	

CONSTRUCTION

(1a) Construct New Roadway Per Structural Section No. 1a
Sta 308+50 to Sta 313+50

Lime Slurry Stabilization 8" Thick	3845 Sy
Lime	53 Tons
Cement	35 Tons
AC (Superpave ½" Mix) 1 ½" Thick	267 Tons
AC (Superpave ¾" Mix) 6 ½" Thick	1156 Tons
AB, 5" Thick	1058 Tons
Tack Coat	2.63 Tons

(1b) Construct New Roadway Per Structural Section No. 1b
Microsurfacing Type III Aggregate 1252 Sy
Sta 308+50 to Sta 313+50

(2) Construct New Conc C&G 500 Lf
Per MAG Std Det 220, Type A
Sta 308+50 to Sta 308+75 Lt
Sta 309+65 to Sta 313+50 Lt

(3) Construct New Conc Sidewalk
Per COP Std Det P1230 2812 Sf
Sta 308+50 to Sta 308+75 Lt
Sta 309+65 to Sta 313+50 Lt
Sta 308+50 to Sta 308+62 Med
Sta 309+81 to Sta 311+19 Med

(4) Construct New Conc Single Curb
Per MAG Std Det 222, Type A 592 Lf
Sta 309+50 to Sta 309+62 Med
Sta 309+81 to Sta 312+58 Med
Sta 19+25 to STa 19+26 Rt
Sta 19+27 to Sta 19+28 Lt

(5) Concrete Median Nose 172 Sf
Per Median Detail Sheet P50

(10) Construct New Return Type Driveway
Per Modified COP Std Det P1243

10" Thick Fibermesh Reinforced Conc	1294 Sf
Lime Slurry Stabilization 8" Thick	155 Sy
Lime	2 Tons
Cement	1 Tons

(19) Concrete Sidewalk, COP Det P1230
Modified, 9" Thick, Class A Concrete 588 Sf
Sta 308+75 to 309+00 Lt
Sta 309+40 to 309+65 Lt

(26) Decomposed Granite, ¾", 2" Thick 141 Sy
Sta 311+19 to Sta 312+58 Med

(47) Construct New Roadway Per Structural Section No. 1a
Sta 19+20 to Sta 19+27

Subgrade Prep	5 Sy
AC (Superpave ½" Mix) 4" Thick	3 Tons
AC (Superpave ¾" Mix) 3" Thick	11 Tons
ABC, 6" Thick	9 Tons
Tack Coat	0.03 Tons

(51) Construct 2'-6" Curb Transition
Per MAG Std Det 222

(52) Construct New Conc Single Curb
Per MAG Std Det 222,Type B, 22 Lf
Sta 308+62 Med
Sta 309+81 Med
Sta 311+19 Med
Sta 312+58 Med

(55) Construct New Conc C&G,
Per Modified MAG Std Det 220, Type A 79 Lf
10" Thick Fibermesh Reinforced Conc
See Sheet 74
Sta 308+74 to 308+99 Lt
Sta 309+40 to 309+65 Lt

CONSTRUCTION CONT.

(57) 6" Schedule 40 PVC Irrigation Pipe Sleeve With Tracer Wire, See General Notes 118 Lf

(62) Acrylic Copolymer Surface Course Dust Palliative 865 Sy

NO.	REVISION	BY	DATE
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-23-22 Arizona, U.S.A.

Kimley»Horn

91st Ave PAVING PLAN
Sta 308+50 to Sta 313+50

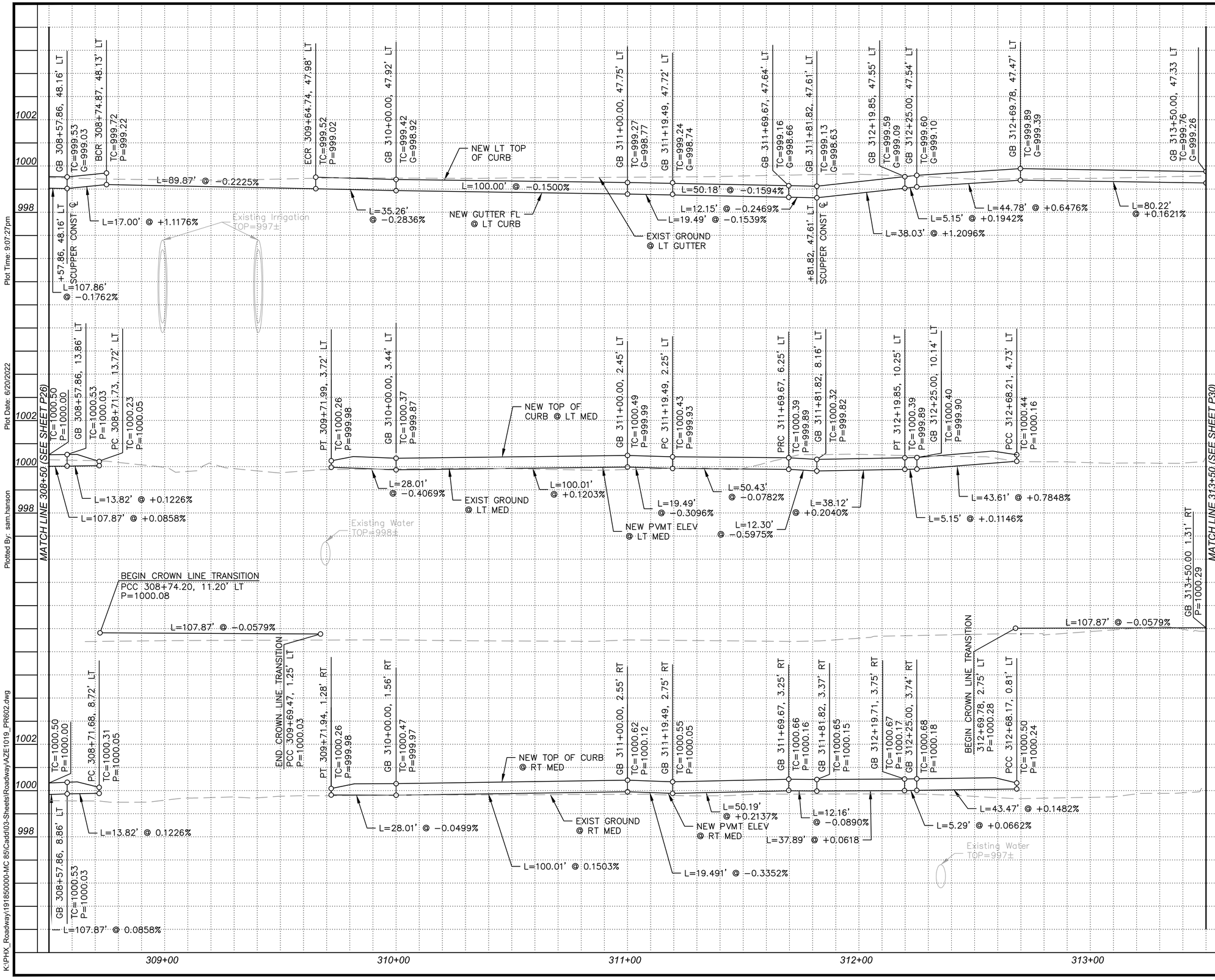
SHEET P27 OF P54

TRACS NO. _____

Plot Time: 9:05:58pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Roadway\AZE1019_PL602.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	49	132	

○ CONSTRUCTION ○



GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.
2. SEE P27 FOR EXISTING SAWCUT ELEVATIONS.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
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Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer
CERTIFICATE NO
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

91st Ave PAVING PROFILE
Sta 308+50 to Sta 313+50

SHEET
P28 OF P54

TRACS NO. _____

Plot Date: 6/20/2022
Plot Time: 9:07:27pm
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PR602.dwg

Plot Time: 9:11:57pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\RoadwayAZE1019_PL603.dwg

CONSTRUCTION CONT.

(35) *Construct Concrete Bus Shelter/Accessory Pad* 625 Sf
Per COP Std Det P1261
Sta 317+40 to Sta 317+90 Lt

(36) *Construct Concrete Single Curb Per MAG Std* 141 Lf
Det 222, Type A Modified (Per COP Std Det 1256-1)
Sta 317+10 to Sta 318+50 Lt

(51) *Construct 2'-6" Curb Transition*
Per MAG Std Det 222

(52) *Construct New Conc Single Curb*
Per MAG Std Det 222,Type B, 12 Lf
Sta 313+92 Med
Sta 315+30 Med
Sta 316+38 Med

CONSTRUCTION CONT.

(55) *Construct New Conc C&G,* 159 Lf
Per Modified MAG Std Det 220, Type A
10" Thick Fibermesh Reinforced Conc
See Sheet 74
Sta 314+04 to Sta314+34 Lt
Sta 314+73 to Sta 315+04 Lt
Sta 315+69 to Sta 315+89 Rt
Sta 316+19 to Sta 316+40 Rt

(57) *6" Schedule 40 PVC Irrigation Pipe Sleeve* 129 Lf
With Tracer Wire, See General Notes

(62) *Acrylic Copolymer Surface Course Dust* 712 Sy
Palliative

NOTES

1. Refer to Sheet P30 for 91st Ave Profile.
2. Refer to Sheet D13 for Drainage Plan.
3. Refer to Sheet PL08 for Signing & Striping Plan.
4. Refer to Sheet R14 for Removal Plan.
5. Refer to Sheet LT06 for Lighting Plan.
6. Refer to Sheet P51 for Median Detail.
7. Refer to Sheet P41 & P47 for Driveway Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	50	132	

CONSTRUCTION

(1a) *Construct New Roadway Per Structural Section No. 1a*
Sta 313+50 to Sta 318+50
Lime Slurry Stabilization 8" Thick 6109 Sy
Lime 84 Tons
Cement 56 Tons
AC (Superpave ½" Mix) 1 ½" Thick 386 Tons
AC (Superpave ¾" Mix) 6 ½" Thick 1675 Tons
AB, 5" Thick 1431 Tons
Tack Coat 3.82 Tons

(1b) *Construct New Roadway Per Structural Section No. 1b*
Microsurfacing Type III Aggregate 489 Sy
Sta 313+50 to Sta 315+45

(2) *Construct New Conc C&G* 363 Lf
Per MAG Std Det 220, Type A
Sta 313+50 to Sta 314+04 Lt
Sta 315+04 to 317+10 Lt

(3) *Construct New Conc Sidewalk* 3274 Sf
Per COP Std Det P1230
Sta 313+50 to Sta 314+04 Lt
Sta 315+03 to Sta 317+40 Lt
Sta 317+90 to Sta 318+50 Lt
Sta 313+92 to Sta 315+30 Med
Sta 316+37 to Sta 318+50 Med

(4) *Construct New Conc Single Curb* 935 Lf
Per MAG Std Det 222,Type A
Sta 313+92 to Sta 318+50 Med
Sta 19+11 to Sta 19+23 Rt
Sta 19+08 to Sta 19+11 Lt
Sta 20+65 to Sta 20+68 Lt
Sta 20+70 to Sta 20+73 Rt

(5) *Concrete Median Nose* 55 Sf
Per Sheet P51

(9) *Construct New Mountable Conc C&G,* 303 Lf
MAG Std Det 222,
Modified 9" Thick Gutter Pan Type E
Sta 315+48 to Sta 315+69 Rt
Sta 316+40 to Sta 318+50 Rt

(10) *Construct New Return Type Driveway*
Per Modified COP Std Det P1243
10" Thick Fibermesh Reinforced Conc 2406 Sf
Lime Slurry Stabilization 8" Thick 289 Sy
Lime 4 Tons
Cement 3 Tons

(15) *10" Thick Fibermesh Reinforced Conc* 271 Sf
Subgrade Prep 31 Sy

(19) *Concrete Sidewalk, COP Det P1230*
Modified, 9" Thick, Class A Concrete 2404 Sf
Sta 314+04 to Sta 314+33 Lt
Sta 314+74 to Sta 315+03 Lt
Sta 315+45 to Sta 315+89 Rt
Sta 316+20 to Sta 316+50 Rt

(21) *Install Survey Marker* 1 Ea
Per MAG Std Det 120, Type B
Sta 315+45.83

(26) *Decomposed Granite, ¾", 2" Thick* 225 Sy
Sta 315+30 to Sta 316+37 Med
Sta 315+45 to Sta 315+64 Rt
Sta 316+56 to Sta 318+50 Rt

(33) *Construct 2' Curb Transition*
Per MAG Std Det 220-2, Type E to Type A

(34) *Construct Bus Bay Pavement Per COP* 1 Ea
Std Det P1256-1, 9" Thick, Class A Concrete
Sta 317+10 to Sta 318+50 Lt

NO.	REVISION	BY	DATE
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2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO. 75511
MARK FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

Kimley»Horn

91st Ave PAVING PLAN
Sta 313+50 to Sta 318+50

SHEET P29 OF P54

TRACS NO. _____

SCALE: Hor: 1"=20'

SCALE IN FEET 20 0 20 40

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SIDEWALK CONTROL POINTS

POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
522	313+58.01	65.16' Lt	1000.00	S/W FG
R522	313+58.62	35.16' Lt	-	30.00' Radius
523	313+58.11	60.16' Lt	999.92	S/W FG
R523	313+58.62	35.16' Lt	-	25.00' Radius
524	313+76.85	58.99' Lt	999.85	S/W FG
R524	313+92.04	78.84' Lt	-	25.00' Radius
R525	313+78.87	48.04' Lt	-	1.00' Radius
525	313+79.71	48.57' Lt	999.68	S/W FG
526	313+91.99	53.84' Lt	999.69	S/W FG
527	315+44.88	55.62' Rt	1000.42	S/W FG
R527	315+45.31	30.62' Rt	-	25.00' Radius
528	315+44.79	60.61' Rt	1000.50	S/W FG
R528	315+45.31	30.62' Rt	-	30.00' Radius
529	315+60.53	56.78' Rt	1000.46	S/W FG
R529	315+72.77	78.58' Rt	-	25.00' Radius
R530	315+62.79	47.61' Rt	-	1.00' Radius
530	315+63.50	48.32' Rt	1000.34	S/W FG

SIDEWALK CONTROL POINTS

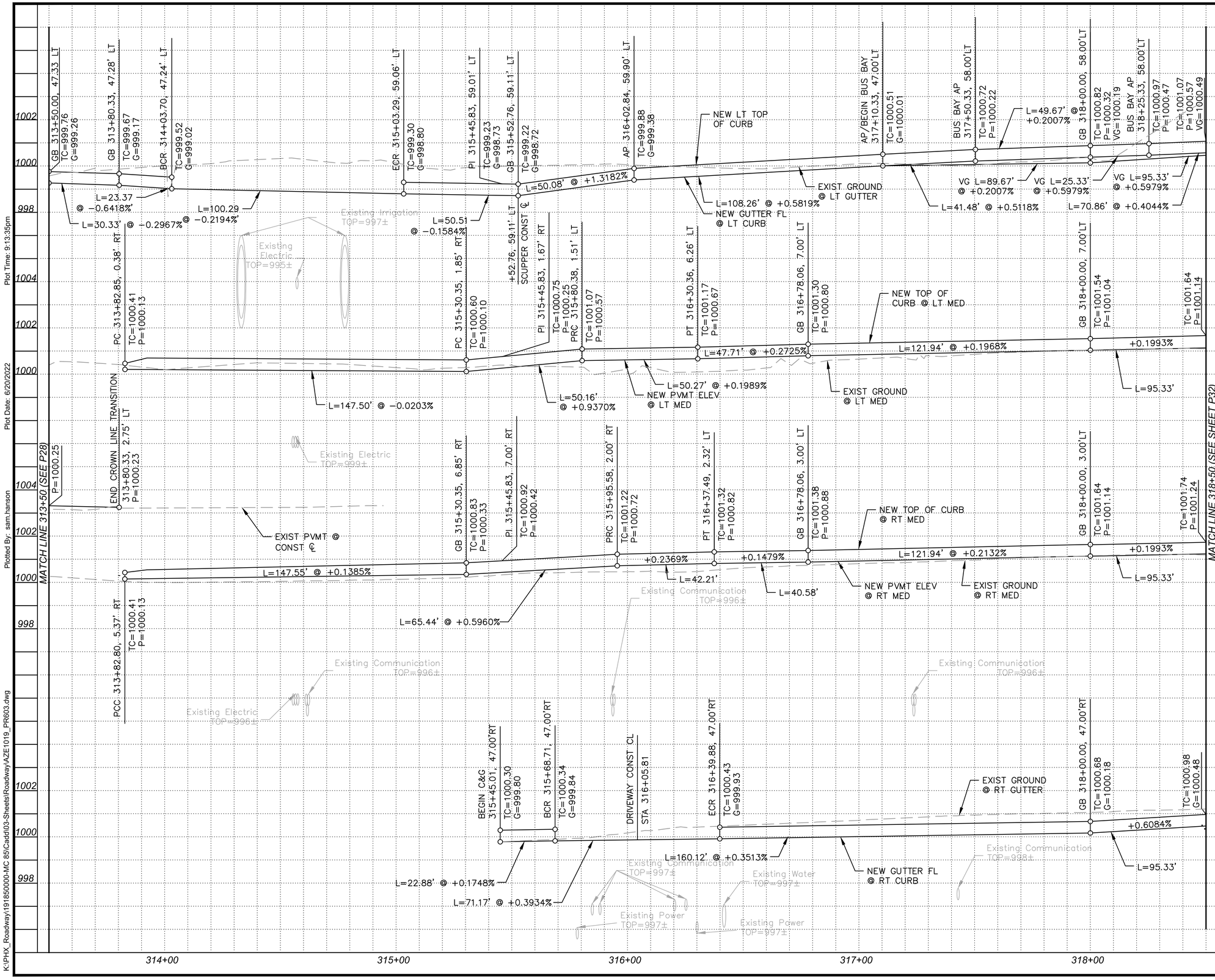
POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
531	315+68.99	53.87' Rt	1000.43	S/W FG
700	316+25.20	63.85' Lt	1000.10	S/W FG
701	316+24.76	58.86' Lt	1000.02	S/W FG
R701	316+24.72	57.86' Lt	-	1.00' Radius
702	316+39.88	53.58' Rt	1000.52	S/W FG
R702	316+39.66	153.58' Rt	-	100.00' Radius
703	316+56.21	48.54' Rt	1000.47	S/W FG
R703	316+56.59	47.61' Rt	-	1.00' Radius
704	316+65.88	57.08' Rt	1000.61	S/W FG
R704	316+92.11	39.42' Lt	-	100.00' Radius
R705	316+92.11	39.42' Lt	-	95.00' Radius
705	316+92.10	55.58' Rt	1000.63	S/W FG
706	316+92.10	60.58' Rt	1000.71	S/W FG
707	317+32.11	54.59' Lt	1000.64	S/W FG
R707	317+32.07	53.58' Lt	-	1.00' Radius
708	318+33.94	55.58' Rt	1001.01	S/W FG
R708	318+33.94	39.42' Lt	-	95.00' Radius
709	318+33.94	60.58' Rt	1001.08	S/W FG
R709	318+33.94	39.42' Lt	-	100.00' Radius

LEGEND

(1a) Pvmt Str Sect No. 1 **

(1b) Microsurfacing Aggregate, Type III

** Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk



GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.
2. SEE SHEET P29 FOR EXISTING SAWCUT ELEVATIONS.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO
75511
MARK
FLOOD
Date Signed 06/20/22
ARIZONA

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

91st Ave PAVING PROFILE
Sta 313+50 to Sta 318+50

SHEET P30 OF P54

TRACS NO. _____

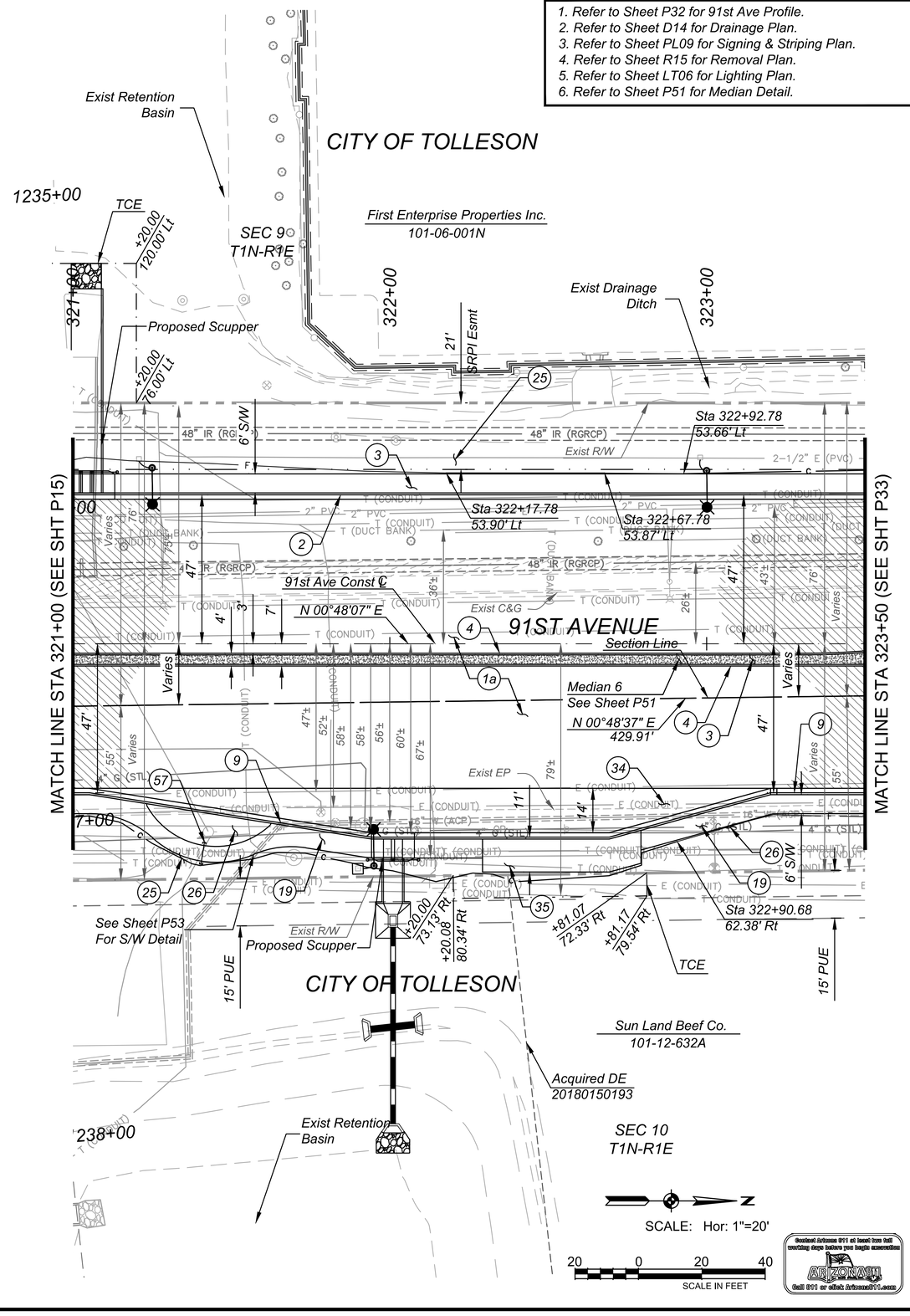
Plot Time: 9:13:35pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PR603.dwg

NOTES
1. Refer to Sheet P32 for 91st Ave Profile.
2. Refer to Sheet D14 for Drainage Plan.
3. Refer to Sheet PL09 for Signing & Striping Plan.
4. Refer to Sheet R15 for Removal Plan.
5. Refer to Sheet LT06 for Lighting Plan.
6. Refer to Sheet P51 for Median Detail.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	52	132	

CONSTRUCTION

(1a)	*Construct New Roadway Per Structural Section No. 1a*	
	Sta 321+00 to Sta 323+50	
	Lime Slurry Stabilization 8" Thick	*3294 Sy*
	Lime	*45 Tons*
	Cement	*30 Tons*
	AC (Superpave ½" Mix) 1 ½" Thick	*204 Tons*
	AC (Superpave ¾" Mix) 6 ½" Thick	*885 Tons*
	AB, 5" Thick	*744 Tons*
	Tack Coat	*2.02 Tons*
(2)	*Construct New Conc C&G*	*250 Lf*
	Per MAG Std Det 220, Type A	
	Sta 321+00 to Sta 323+50 Lt	
(3)	*Construct New Conc Sidewalk*	*2256 Sf*
	Per COP Std Det P1230	
	Sta 321+00 to Sta 323+50 Lt	
	Sta 322+79 to Sta 323+50 Rt	
	Sta 321+00 to Sta 323+50 Med	
(4)	*Construct New Conc Single Curb*	*500 Lf*
	Per MAG Std Det 222, Type A	
	Sta 321+00 to Sta 323+50 Med	
(9)	*Construct New Mountable Conc C&G,*	*253 Lf*
	Per Modified MAG Std Det 220, Type E	
	9" Thick Gutter Pan	
	Sta 321+00 to Sta 323+50 Rt	
(19)	*Concrete Sidewalk, COP Det P1230*	
	Modified, 9" Thick, Class A Concrete	*1208 Sf*
	Sta 321+00 to Sta 322+29 Rt	
(25)	*Hydro Seeding - Native SeedMix*	*0.09 Acre*
	Sta 321+00 to Sta 323+50 Lt	
	Sta 321+00 to Sta 322+37 Rt	
(26)	*Decomposed Granite, ¾" 2" Thick*	*154 Sy*
	Sta 321+23 to Sta 321+63 Rt	
	Sta 322+37 to Sta 323+50 Rt	
(34)	*Construct Bus Bay Pavement Per COP*	*1 Ea*
	Std Det P1256-1, 9" Thick, Class A Concrete	
	Sta 321+05 to Sta 323+20 Rt	
(35)	*Construct Concrete Bus Shelter/Accessory Pad*	*521 Sf*
	Per COP Std Det P1261	
	Sta 322+29 to Sta 322+79 Rt	
(57)	*6" Schedule 40 PVC Irrigation Pipe Sleeve*	*7 Lf*
	With Tracer Wire, See General Notes	



LEGEND	
(1a)	Pvmt Str Sect No. 1 **
(1b)	Microsurfacing Aggregate, Type III
**	Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/20/22 Arizona U.S.A.

Kimley»Horn

91st Ave PAVING PLAN
Sta 321+00 to Sta 323+50

SHEET P31 OF P54

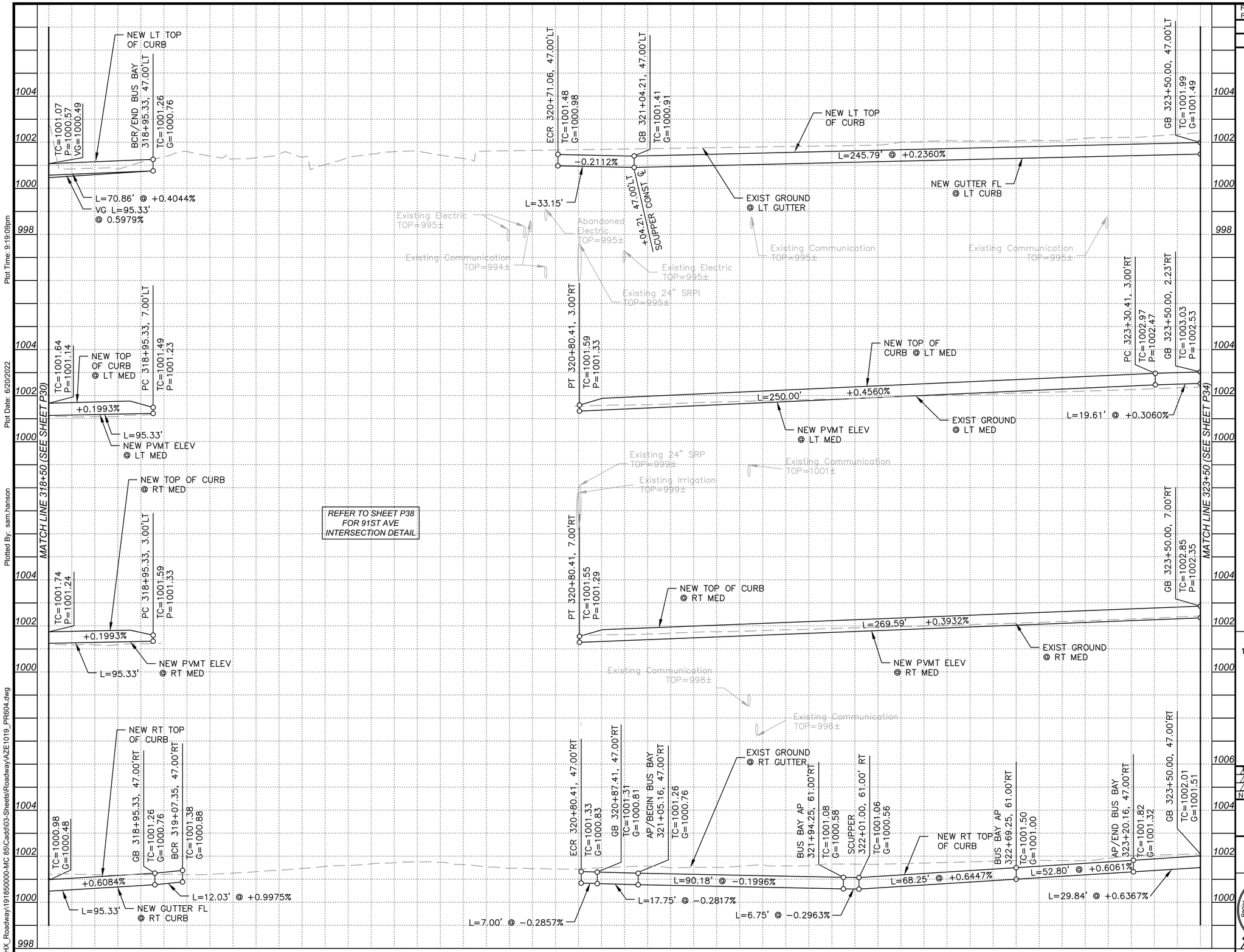
TRACS NO. _____

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or visit Arizona811.com

Plot Time: 9:17:39pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Roadway\AZE1019_PL604.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	53	132	

○ CONSTRUCTION ○



GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or eBet Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06/30/22
ARIZONA, U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

91st Ave PAVING PROFILE
Sta 318+50 to Sta 323+50

SHEET P32 OF P54

TRACS NO. _____

Plot Time: 9:19:09pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PR604.dwg

Plot Time: 2:50:10pm
Plot Date: 6/22/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL605.dwg

NOTES

1. Refer to Sheet P34 for 91st Ave Profile.
2. Refer to Sheet D15 for Drainage Plan.
3. Refer to Sheet PL09 for Signing & Striping Plan.
4. Refer to Sheet R16 for Removal Plan.
5. Refer to Sheet LT06 for Lighting Plan.
6. Refer to Sheet P51 for Median Detail.
7. Refer to Sheet P46 for Driveway Detail.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	54	132	

CONSTRUCTION

(1a) *Construct New Roadway Per Structural Section No. 1a*
Sta 323+50 to Sta 328+50
Sta 19+15 to 19+59

Lime Slurry Stabilization 8" Thick	4890 Sy
Lime	68 Tons
Cement	45 Tons
AC (Superpave ½" Mix) 1 ½" Thick	321 Tons
AC (Superpave ¾" Mix) 6 ½" Thick	1391 Tons
AB, 5" Thick	1158 Tons
Tack Coat	3.17 Tons

(1b) *Construct New Roadway Per Structural Section No. 1b*
Microsurfacing Type III Aggregate 729 Sy
Sta 326+50 to Sta 328+50

(2) *Construct New Conc C&G* 936 Lf
Per MAG Std Det 220, Type A
Sta 323+50 to Sta 325+97 Lt
Sta 327+05 to Sta 328+50 Lt
Sta 324+14 to Sta 328+50 Rt

(3) *Construct New Conc Sidewalk* 5027 Sf
Per COP Std Det P1230
Sta 323+50 to Sta 325+98 Lt
Sta 327+05 to Sta 328+50 Lt
Sta 324+14 to Sta 328+50 Rt
Sta 323+50 to Sta 323+69 Med

(4) *Construct New Conc Single Curb* 249 Lf
Per MAG Std Det 222, Type A
Sta 323+50 to Sta 324+68 Med
Sta 19+27 to Sta 19+36 Lt
Sta 19+27 to Sta 19+30 Rt

(5) *Concrete Median Nose*
Per Sheet P51 63 Sf

(9) *Construct New Mountable Conc C&G,* 63 Lf
Per Modified MAG Std Det 220, Type E
9" Thick Gutter Pan
Sta 323+50 to Sta 324+14 Rt

(10) *Construct New Return Type Driveway*
Per Modified COP Std Det P1243

10" Thick Fibermesh Reinforced Conc	1551 Sf
Lime Slurry Stabilization 8" Thick	188 Sy
Lime	3 Tons
Cement	2 Tons

(19) *Concrete Sidewalk, COP Det P1230* 827 Sf
Modified, 9" Thick, Class A Concrete
Sta 323+50 to Sta 324+14 Rt
Sta 326+03 to Sta 326+33 Lt
Sta 326+71 to Sta 327+05 Lt

(21) *Install Survey Marker* 1 Ea
Per MAG Std Det 120, Type B
Sta 324+29.91

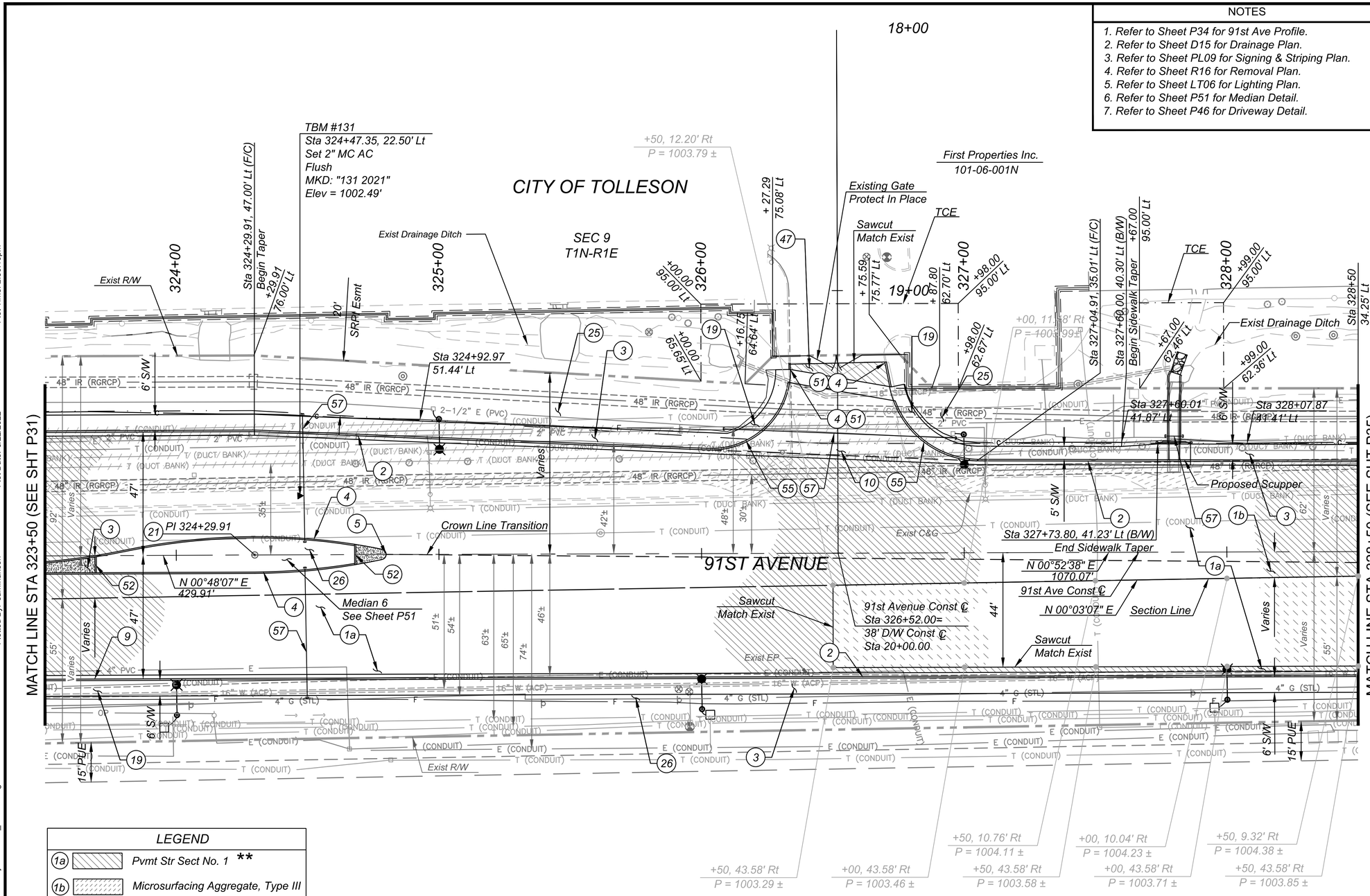
(25) *Hydro Seeding - Native Seed Mix* 0.12 Acre
Sta 323+50 to Sta 326+33 Lt
Sta 326+71 to Sta 328+50 Lt

(26) *Decomposed Granite, ¾", 2" Thick* 914 Sy
Sta 323+50 to Sta 328+50 Rt
Sta 323+70 to Sta 324+68 Med

(47) *Construct New Roadway Per Structural Section No. 1a*
Sta 326+34 to Sta 326+70

Subgrade Prep	24 Sy
AC (Superpave ½" Mix) 1 ½" Thick	2 Tons
AC (Superpave ¾" Mix) 6 ½" Thick	8 Tons
AB, 5" Thick	7 Tons
Tack Coat	.02 Tons

(51) *Construct 2'-6" Curb Transition*
Per MAG Std Det 222



LEGEND

(1a)	Pvmt Str Sect No. 1 **
(1b)	Microsurfacing Aggregate, Type III

** *Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk*

CONSTRUCTION

(52) *Construct New Conc Single Curb* 14 Lf
Per MAG Std Det 222,Type B,
Sta 323+70 Med
Sta 324+68 Med

(55) *Construct New Conc C&G,* 96 Lf
Per Modified MAG Std Det 220, Type A
10" Thick Fibermesh Reinforced Conc, See Sheet 74
Sta 325+97 to Sta 326+34 Lt
Sta 326+70 to Sta 327+05 Lt

(57) *6" Schedule 40 PVC Irrigation Pipe Sleeve* 195 Lf
With Tracer Wire, See General Notes

Sun Land Beef Co.
101-12-632A

SEC 10
T1N-R1E

CITY OF TOLLESON

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

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NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO. 75511
MARK FLOOD
Date Signed 06-24-22

Kimley»Horn

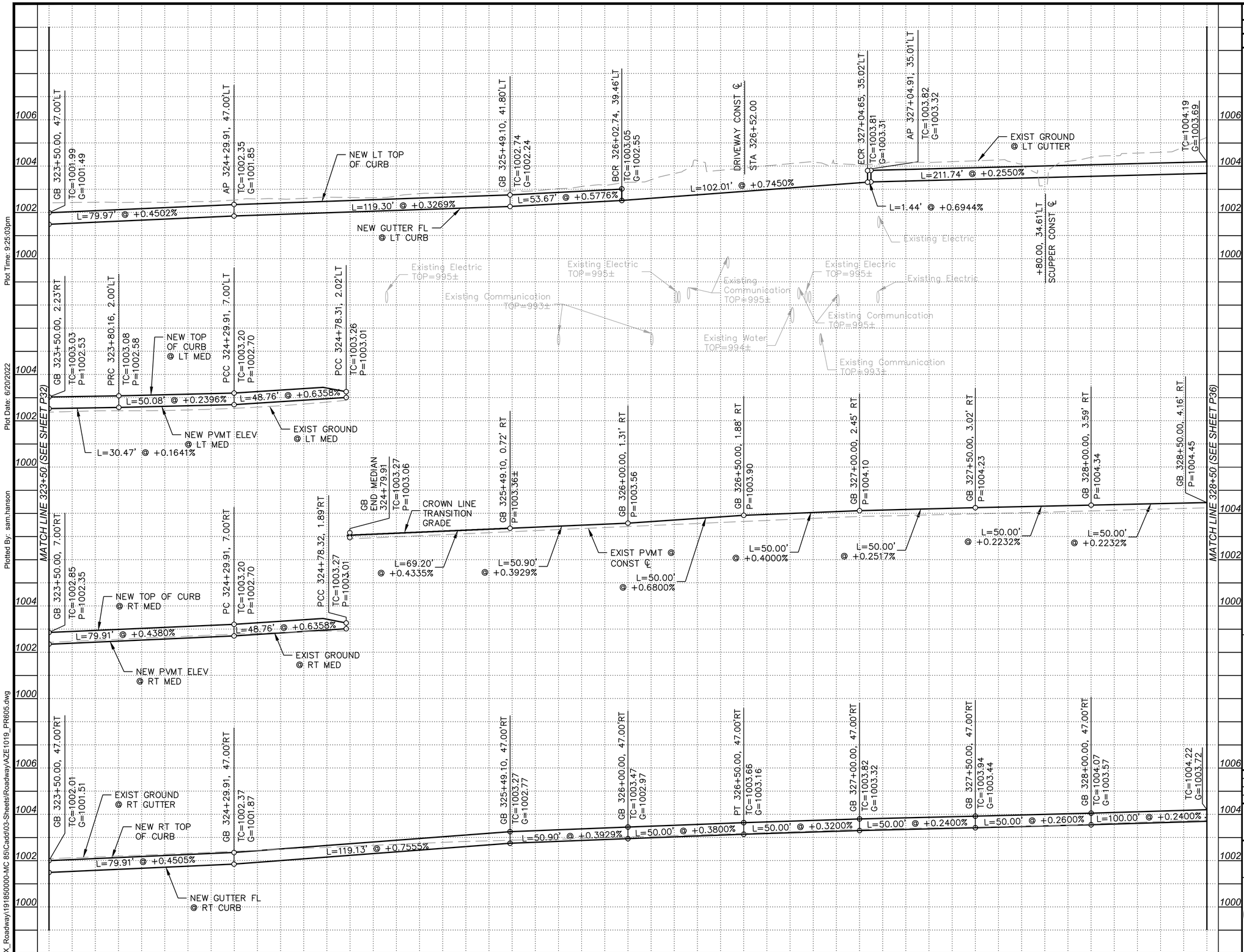
91st Ave PAVING PLAN
Sta 323+50 to Sta 328+50

SHEET P33 OF P54

TRACS NO. _____

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	55	132	

○ CONSTRUCTION ○



GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

91st Ave PAVING PROFILE
Sta 323+50 to Sta 328+50

SHEET
P34 OF P54

TRACS NO. _____

Plot Time: 9:25:03pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PR605.dwg

Plot Time: 9:29:34pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Roadway\AZE1019_PL606.dwg

NOTES

1. Refer to Sheet P36 for 91st Ave Profile.
2. Refer to Sheet R17 for Removal Plan.
3. Refer to Sheet PL09 for Signing & Striping Plan.
4. Refer to Sheet LT06 for Lighting Plan.
5. Refer to Sheet P48 for Driveway Details

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	56	132	

CONSTRUCTION

(1a) *Construct New Roadway Per Structural Section No. 1a*
Sta 328+50 to Sta 333+29 Lt
Sta 328+50 to Sta 331+48 Rt
Sta 19+26 to 19+62

Lime Slurry Stabilization 8" Thick	*2917 Sy*
Lime	*40 Tons*
Cement	*27 Tons*
AC (Superpave ½" Mix) 1 ½" Thick	*169 Tons*
AC (Superpave ¾" Mix) 6 ½" Thick	*733 Tons*
AB, 5" Thick	*618 Tons*
Tack Coat	*1.67 Tons*

(1b) *Construct New Roadway Per Structural Section No. 1b* — *2310 Sy*
Microsurfacing Type III Aggregate
Sta 328+50 to Sta 333+50

(2) *Construct New Conc C&G* — *356 Lf*
Per MAG Std Det 220, Type A
Sta 328+50 to Sta 329+17 Lt
Sta 330+51 to Sta 332+16 Lt
Sta 333+25 to Sta 333+29 Lt
Sta 19+28 to Sta 19+31 Lt
Sta 19+28 to Sta 19+30 Rt

(3) *Construct New Conc Sidewalk* — *3214 Sf*
Per COP Std Det P1230
Sta 328+50 to Sta 329+17 Lt
Sta 330+51 to Sta 332+16 Lt
Sta 333+25 to Sta 333+29 Lt
Sta 328+50 to Sta 331+48 Rt

(4) *Construct New Conc Single Curb* — *12 Lf*
Per MAG Std Det 222, Type A
Sta 19+26 to Sta 19+31 Lt & Rt

(7) *Construct New Concrete Valley Gutter* — *1195 Sf*
Per MAG Std Det 240
Sta 329+17 to Sta 330+51 Lt

(9) *Construct New Mountable Conc C&G*
Per Modified MAG Std Det 220, Type E
9" Thick Gutter Pan — *298 Lf*
Sta 328+50 to Sta 331+46 Rt

(10) *Construct New Return Type Driveway*
Per Modified COP Std Det P1243

10" Thick Fibermesh Reinforced Conc	*1906 Sf*
Lime Slurry Stabilization 8" Thick	*229 Sy*
Lime	*3 Tons*
Cement	*2 Tons*

(13) *Construct New Conc Sidewalk Ramp*
Per COP Std Det P1240
Sta 329+46.68, 53.01' Lt (RP)
Sta 330+19.08, 52.77' Lt (RP)

(19) *Concrete Sidewalk, COP Det P1230* — *1826 Sf*
Modified, 9" Thick, Class A Concrete
Sta 329+17 to Sta 329+51 Lt
Sta 330+17 to Sta 330+51 Lt
Sta 332+16 to Sta 332+50 Lt
Sta 332+91 to Sta 333+25 Lt

(25) *Hydro Seeding - Native Seed Mix* — *0.09 Acre*
Sta 328+50 to Sta 329+51 Lt
Sta 330+16 to Sta 332+50 Lt
Sta 332+91 to Sta 333+29 Lt

(26) *Decomposed Granite, ¾", 2" Thick* — *341 Sy*
Sta 328+50 to Sta 311+48 Rt

(33) *Construct 2' Curb Transition*
Per MAG Std Det 220-2, Type E to Type A

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

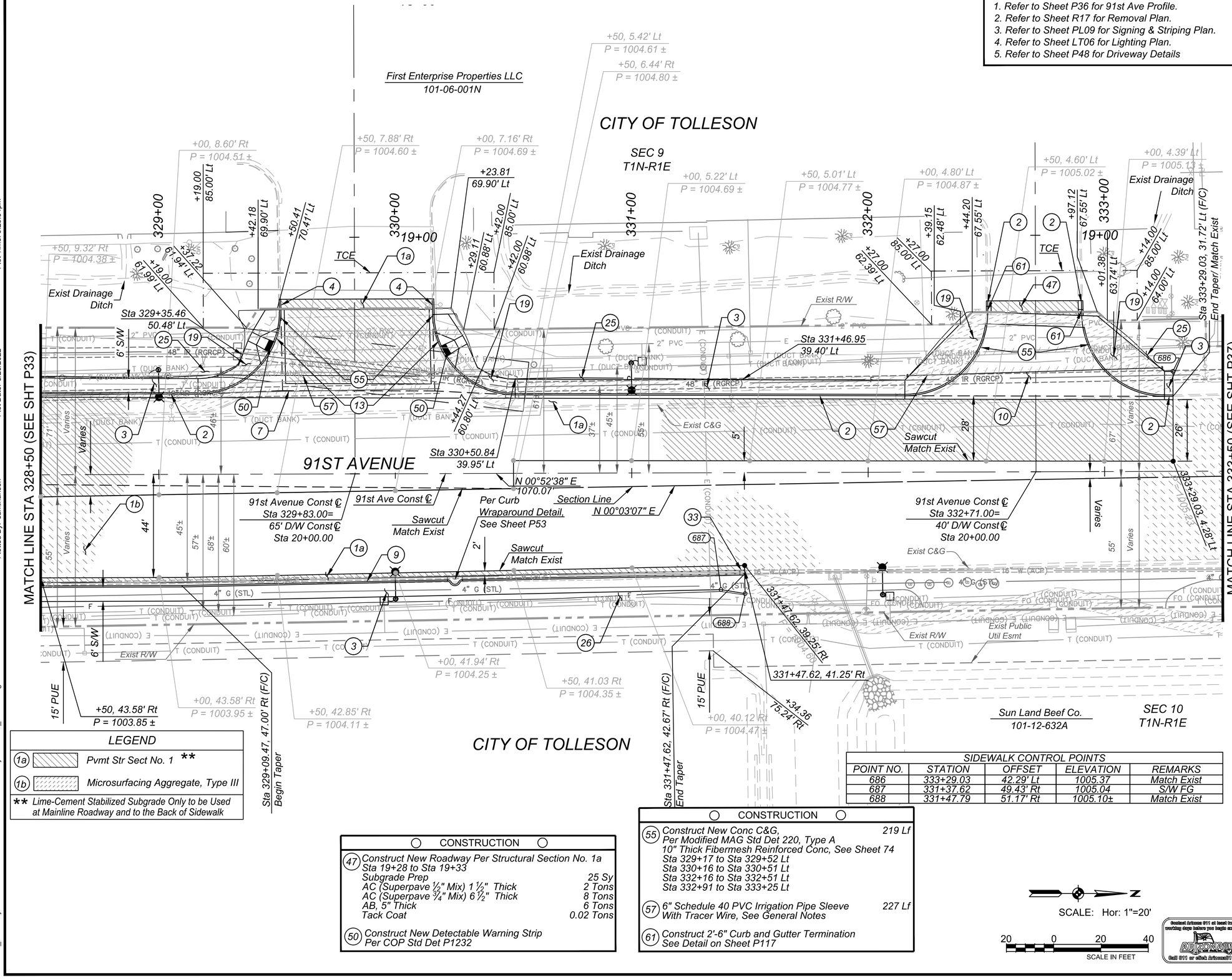
Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-20-22 Arizona U.S.A.

Kimley»Horn

91st Ave PAVING PLAN
Sta 328+50 to Sta 333+50

SHEET P35 OF P54

TRACS NO. _____



LEGEND

(1a) Pvmt Str Sect No. 1 **

(1b) Microsurfacing Aggregate, Type III

** Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk

CONSTRUCTION

(47) *Construct New Roadway Per Structural Section No. 1a*
Sta 19+28 to Sta 19+33

Subgrade Prep	*25 Sy*
AC (Superpave ½" Mix) 1 ½" Thick	*2 Tons*
AC (Superpave ¾" Mix) 6 ½" Thick	*8 Tons*
AB, 5" Thick	*6 Tons*
Tack Coat	*0.02 Tons*

(50) *Construct New Detectable Warning Strip*
Per COP Std Det P1232

CONSTRUCTION

(55) *Construct New Conc C&G,* — *219 Lf*
Per Modified MAG Std Det 220, Type A
10" Thick Fibermesh Reinforced Conc, See Sheet 74
Sta 329+17 to Sta 329+52 Lt
Sta 330+16 to Sta 330+51 Lt
Sta 332+16 to Sta 332+51 Lt
Sta 332+91 to Sta 333+25 Lt

(57) *6" Schedule 40 PVC Irrigation Pipe Sleeve* — *227 Lf*
With Tracer Wire, See General Notes

(61) *Construct 2'-6" Curb and Gutter Termination*
See Detail on Sheet P117

SIDEWALK CONTROL POINTS				
POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
686	333+29.03	42.29' Lt	1005.37	Match Exist
687	331+37.62	49.43' Rt	1005.04	S/W FG
688	331+47.79	51.17' Rt	1005.10±	Match Exist

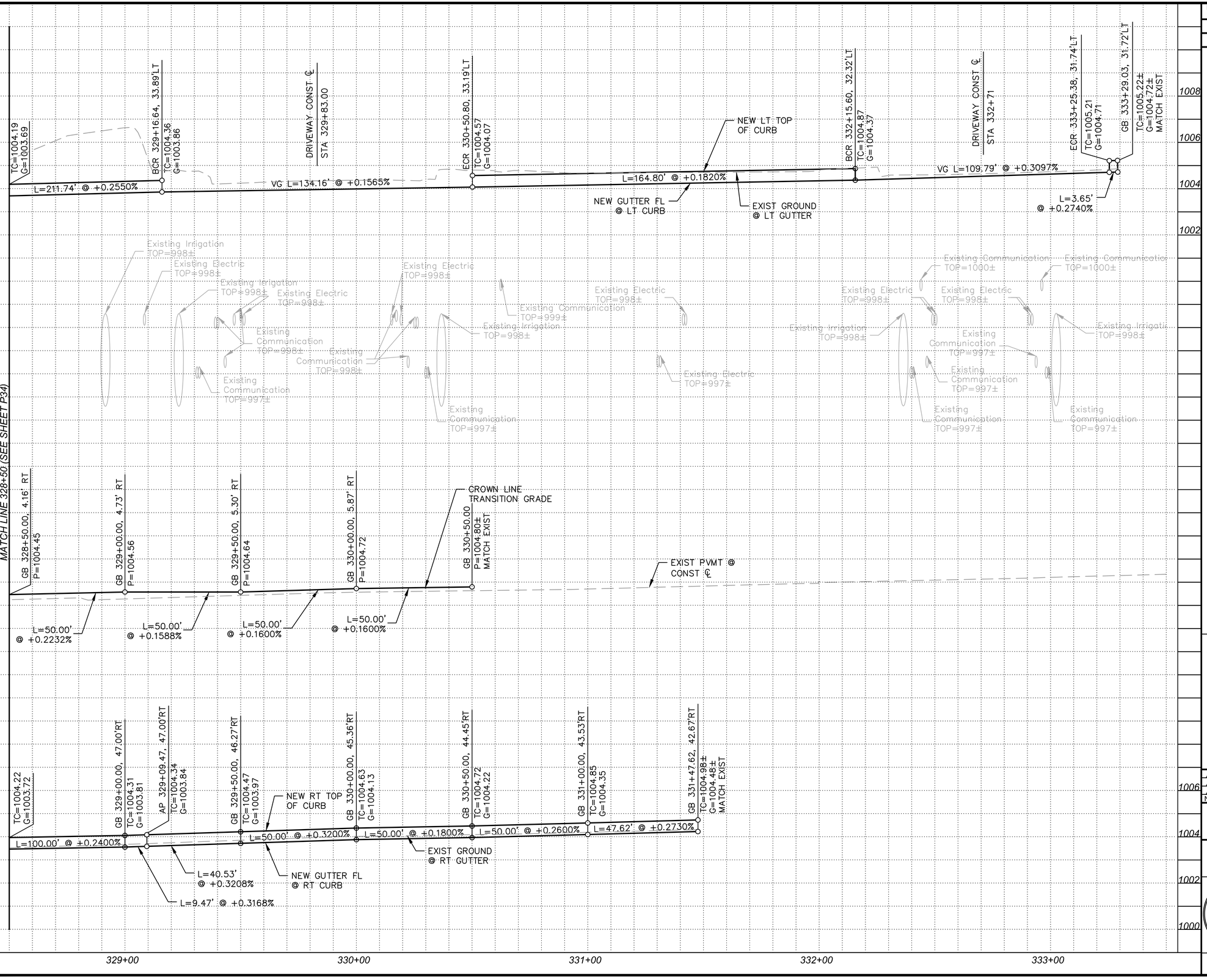
SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	57	132	

○ CONSTRUCTION ○



GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation.
ARIZONA811
Call 811 or click: Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO. 75511
MARK FLOOD
Date Signed 06-22-22
Arizona, U.S.A.

Kimley»Horn

91st Ave PAVING PROFILE
Sta 328+50 to Sta 333+29.03

SHEET P36 OF P54

TRACS NO. _____

Plot Time: 9:30:47pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Roadway\AZE1019_PR606.dwg

NOTES
1. Refer to Sheet PL09 for Signing & Striping Plan.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	58	132	

○ CONSTRUCTION ○

(1b) *Construct New Roadway Per Structural Section No. 1b* — 638 Sy
Microsurfacing Type III Aggregate
Sta 333+50 to Sta 334+35

(21) *Install Survey Marker* — 1 Ea
Per MAG Std Det 120, Type B
Sta 334+99.98, 0.00'

TBM #108
Sta 335+49.84, 47.88' Lt
Set 1/2" Rebar
Flush
Elev = 1005.71'

TBM #552
Sta 334+02.88, 45.37' Lt
Fnd 2" AC
Flush
Elev = 1005.21'

Exist Area Inlet

CITY OF TOLLESON

SEC 9
T1N-R1E

334+00 335+00 336+00 337+00 338+00

Exist Drainage Ditch

Exist R/W

Exist C&G

MATCH LINE STA 333+50 (SEE SHT P35)

91st Ave Const ℄

N 00°52'38" E
1070.07'

PI 334+99.98 (21)

91ST AVENUE

Section Line

N 00°03'07" E
1188.7'

Exist C&G

Exist R/W

STA 334+35
END PROJECT TT0651

STA 334+35
END PAVING

Exist Retention Basin

SEC 10
T1N-R1E

CITY OF TOLLESON

LEGEND	
(1a)	Pvmt Str Sect No. 1 **
(1b)	Microsurfacing Aggregate, Type III
** Lime-Cement Stabilized Subgrade Only to be Used at Mainline Roadway and to the Back of Sidewalk	

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
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NO.	REVISION	BY	DATE
1			
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3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO. 75511
MARK FLOOD
Date Signed 06/22/22
Mark Flood

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

91st Ave PAVING PLAN
Sta 333+50 to Sta 334+35

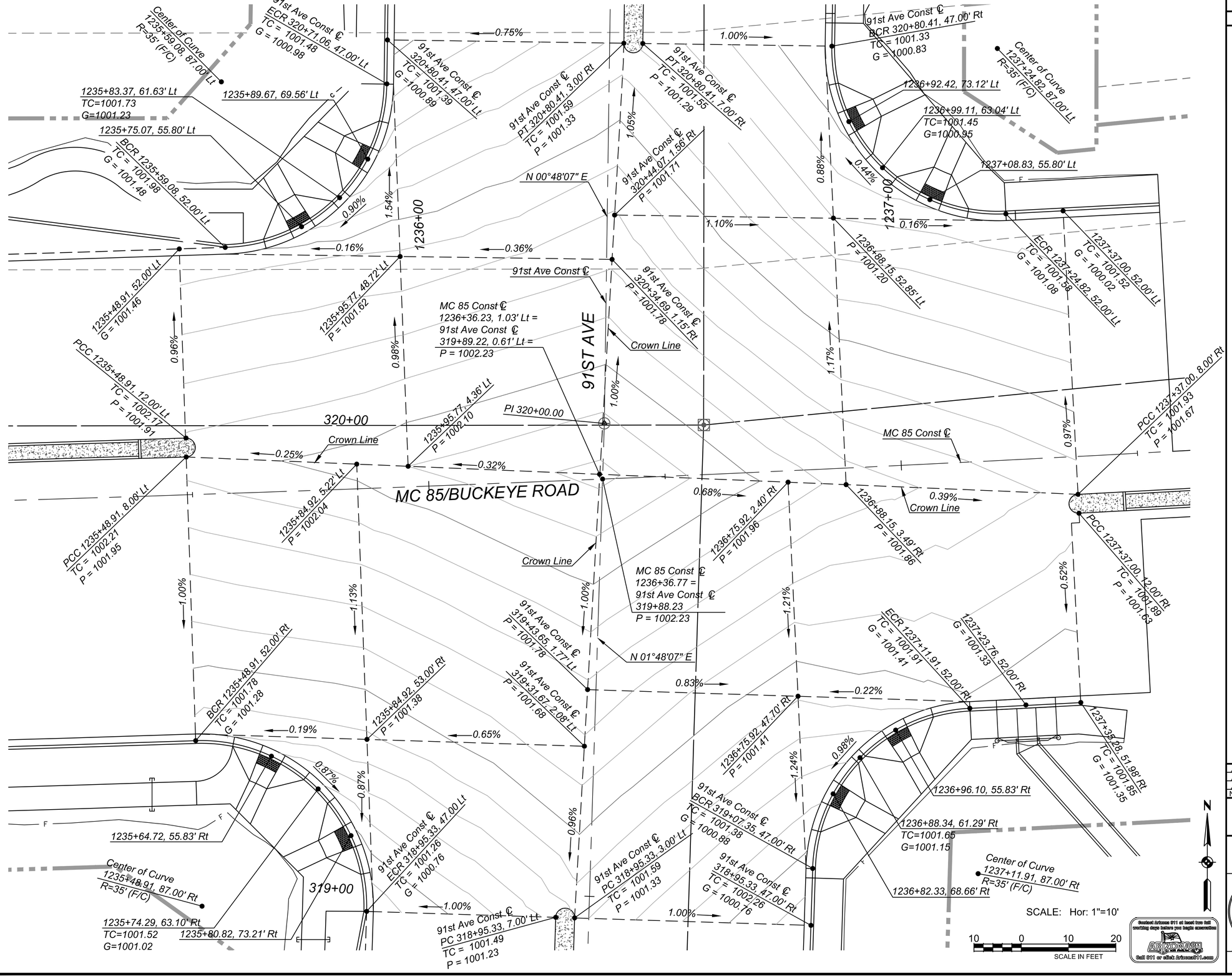
SHEET P37 OF P54

TRACS NO. _____

Plot Time: 9:35:01pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_PL607.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	59	132	

○ CONSTRUCTION ○



NO.	REVISION	BY	DATE
4			
3			
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1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-23-22 Arizona U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

INTERSECTION DETAIL SHEET
MC 85 & 91ST AVENUE

SHEET P38 0F P54

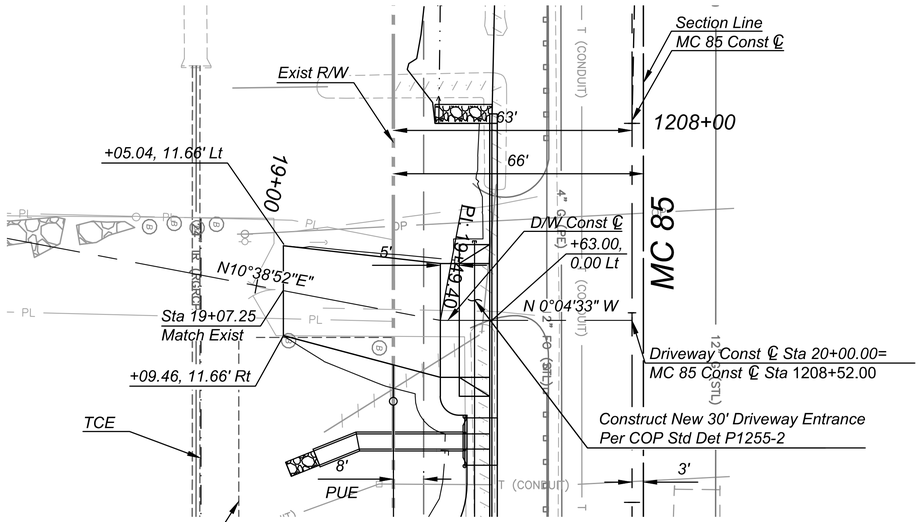
TRACS NO. _____

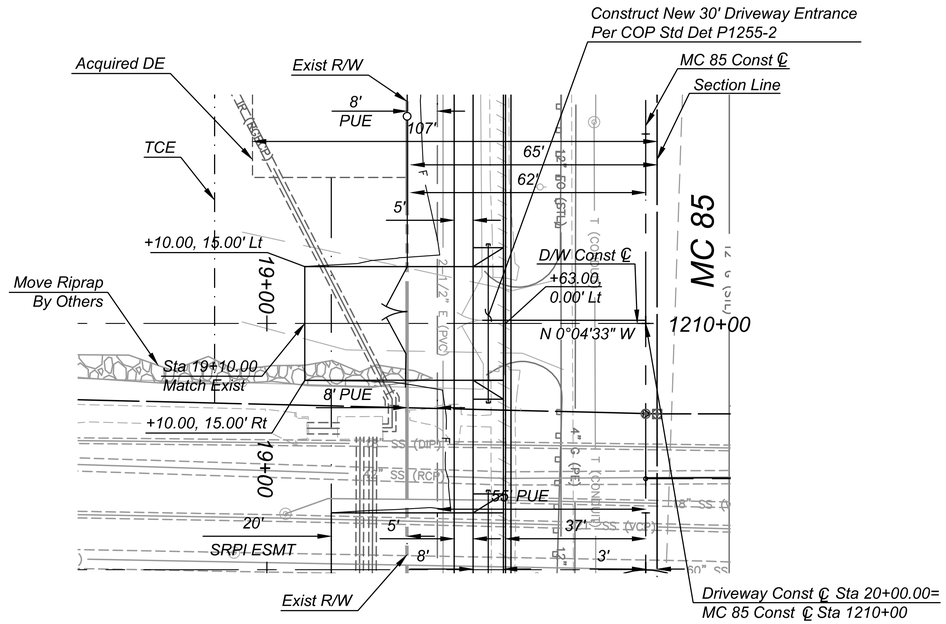
Plot Time: 9:36:51pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_SK60.dwg

Plot Time: 2:50:43pm
Plot Date: 6/22/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_DWYPP08.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	60	132	

○ CONSTRUCTION ○





DRIVEWAY - MC 85 Sta 1208+52 Rt

DRIVEWAY - MC 85 Sta 1210+00 Rt

NOTE: CONSTRUCTION JOINTS SHALL FOLLOW ADOT STANDARD C-7.01 FOR LONGITUDINAL, TRANSVERSE, AND AC/FIBERMESH CONCRETE EDGE-SEAL JOINTS. FOR NEW FIBERMESH CONCRETE/EXISTING FIBERMESH CONCRETE EDGE JOINTS, USE JOINT DETAIL ON SHEET P52.

GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
3			
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1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
06-22-22
Date Signed
ARIZONA

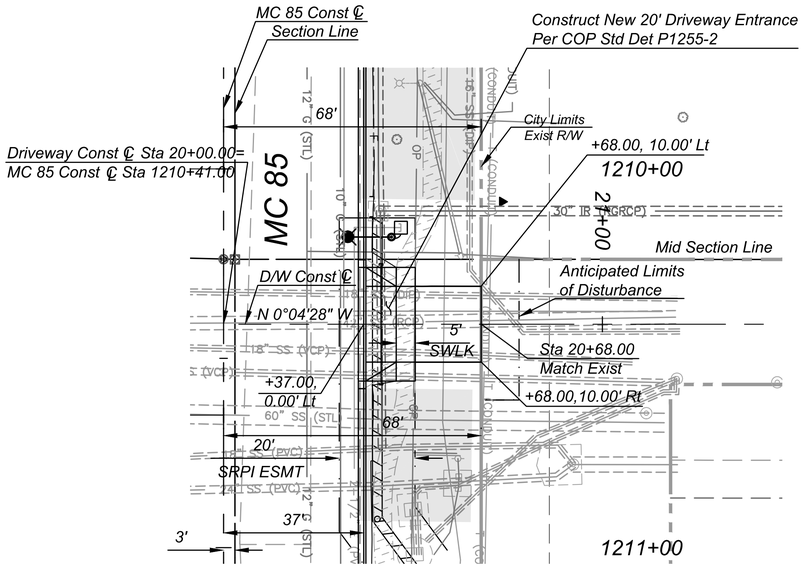
	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

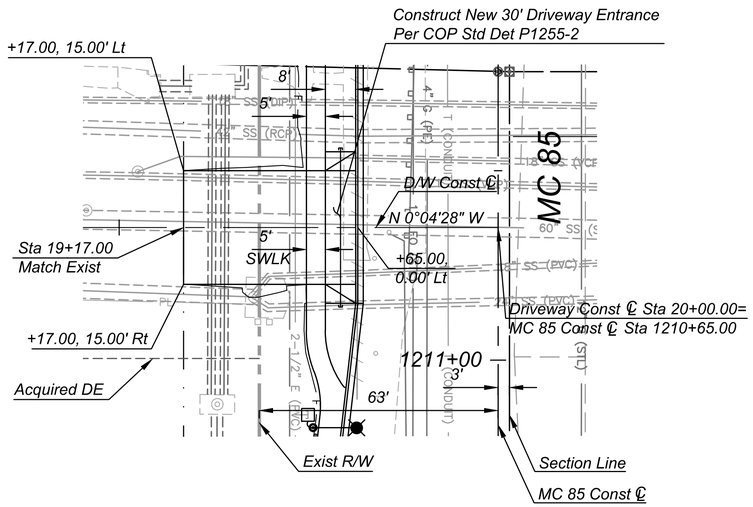
Kimley»Horn

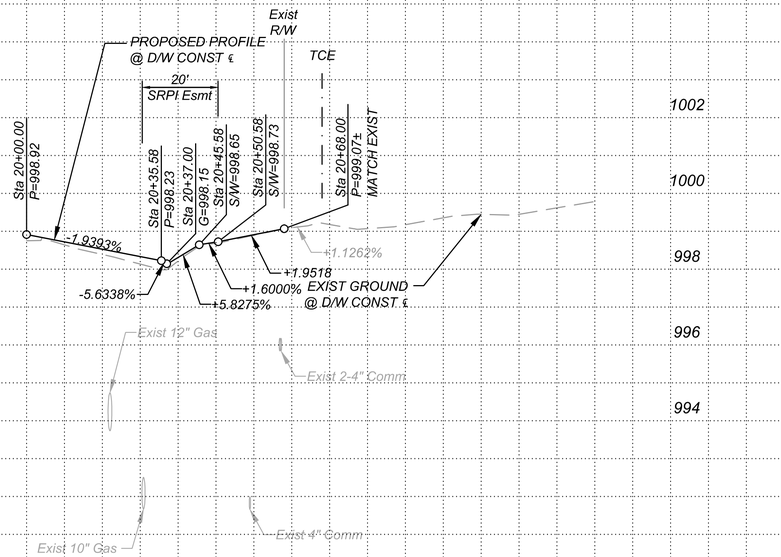
DRIVEWAY DETAIL SHEET
MC 85 Sta 1208+44.00 & Sta 1210+00.00

SHEET P39 OF P54

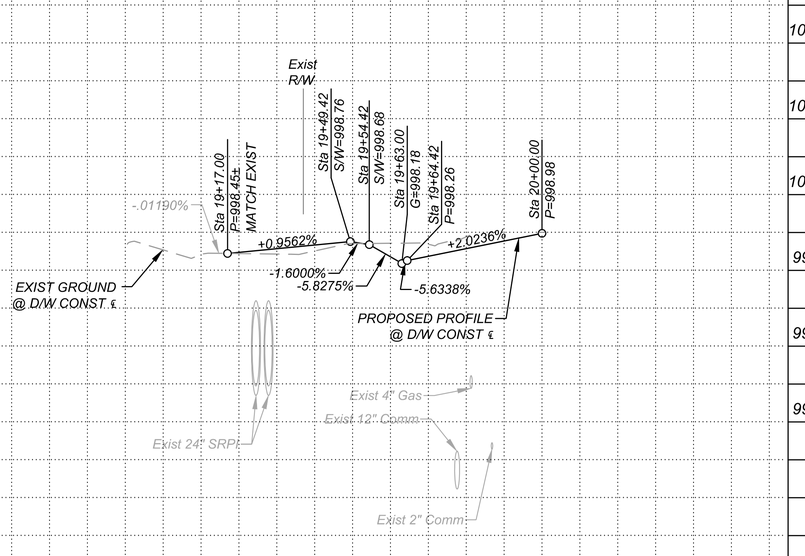
TRACS NO. _____







DRIVEWAY - MC 85 Sta 1210+41 Lt



DRIVEWAY - MC 85 Sta 1210+65 Rt

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	61	132	

○ CONSTRUCTION ○

NOTE: CONSTRUCTION JOINTS SHALL FOLLOW ADOT STANDARD C–7.01 FOR LONGITUDINAL, TRANSVERSE, AND AC/FIBERMESH CONCRETE EDGE–SEAL JOINTS. FOR NEW FIBERMESH CONCRETE/EXISTING FIBERMESH CONCRETE EDGE JOINTS, USE JOINT DETAIL ON SHEET P52.

GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

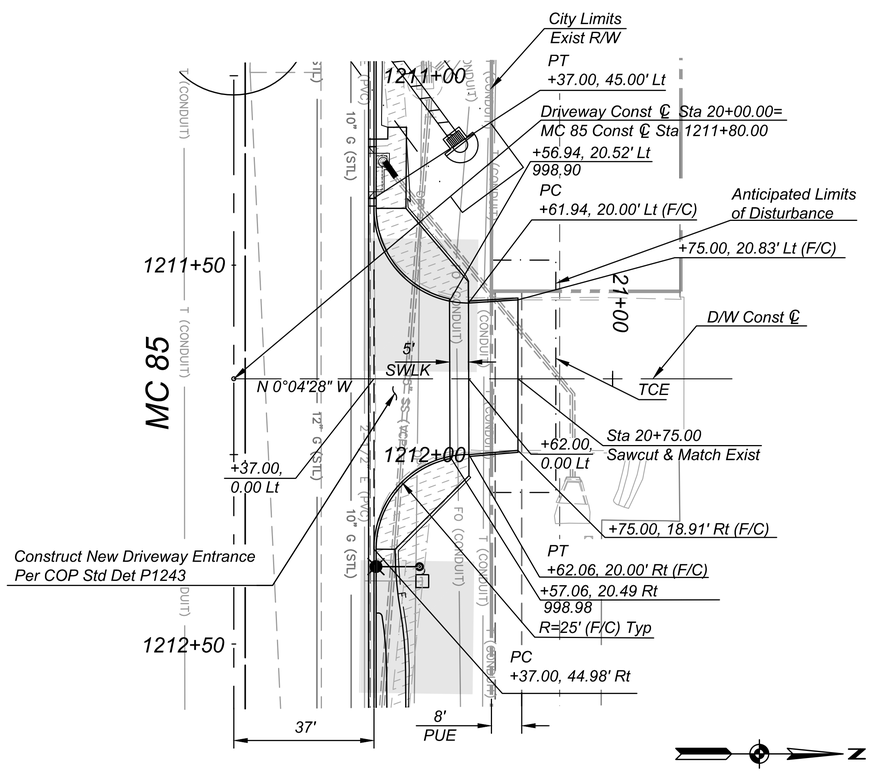
Kimley»Horn

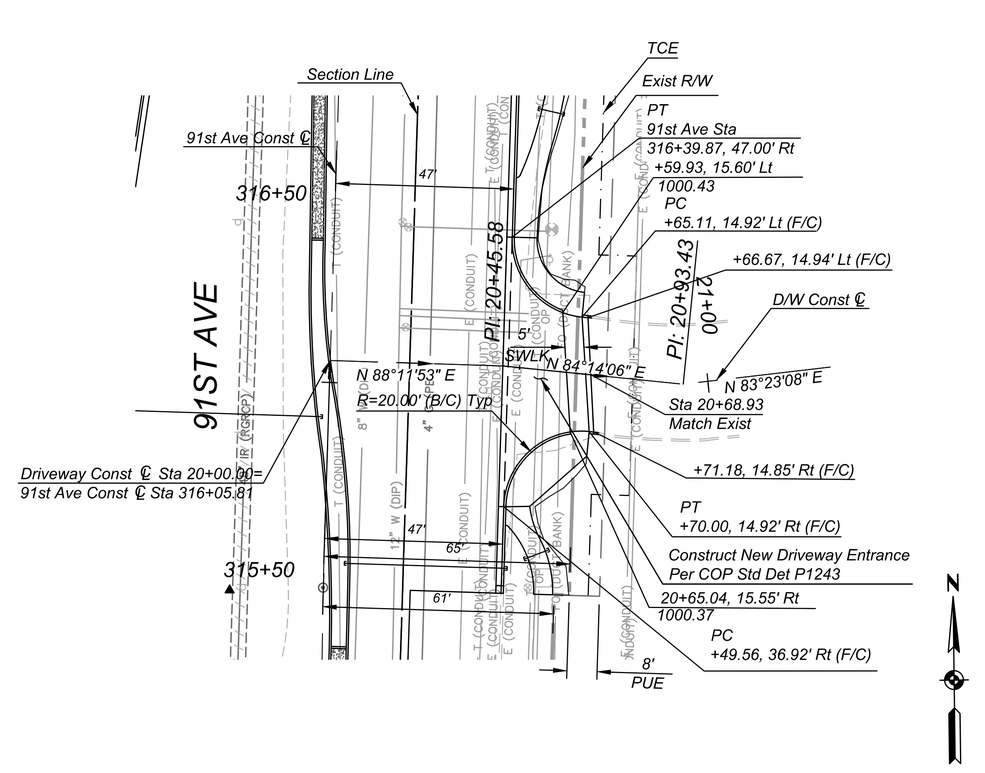
DRIVEWAY DETAIL SHEET
MC 85 Sta 1210+41.00 & 1210+65.00

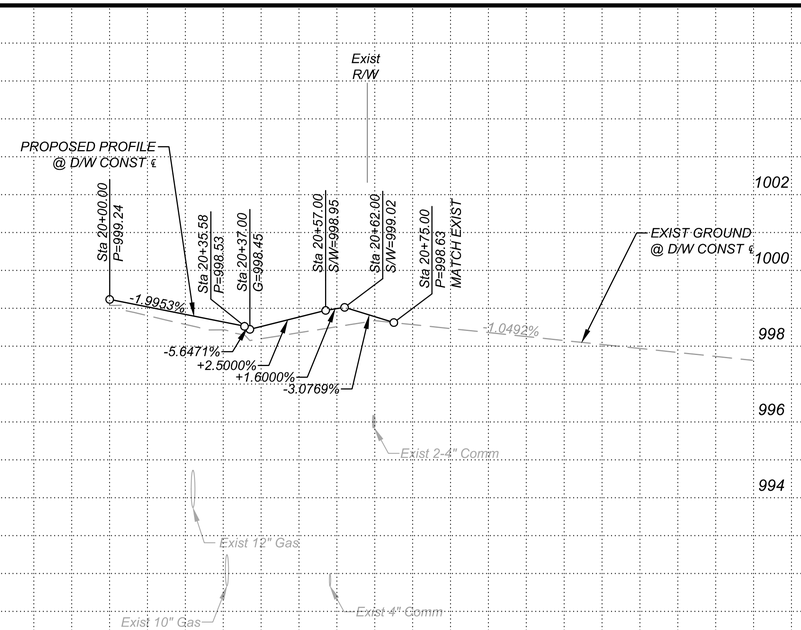
SHEET P40 OF P54

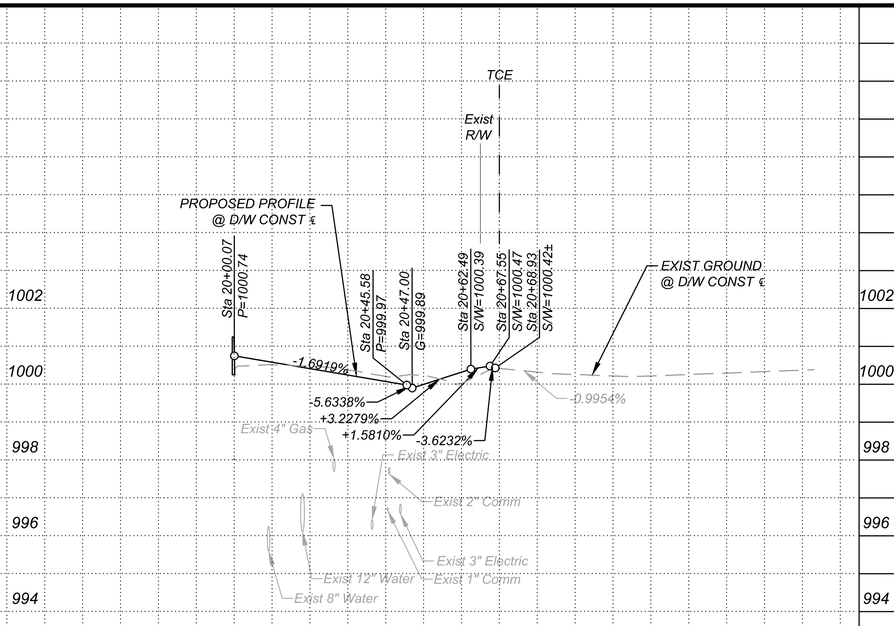
TRACS NO. _____

Plot Time: 9:44:47pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_DWYPP09.dwg









F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	62	132	

○ CONSTRUCTION ○

NOTE: CONSTRUCTION JOINTS SHALL FOLLOW ADOT STANDARD C-7.01 FOR LONGITUDINAL, TRANSVERSE, AND AC/FIBERMESH CONCRETE EDGE-SEAL JOINTS. FOR NEW FIBERMESH CONCRETE/EXISTING FIBERMESH CONCRETE EDGE JOINTS, USE JOINT DETAIL ON SHEET P52.

GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
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3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

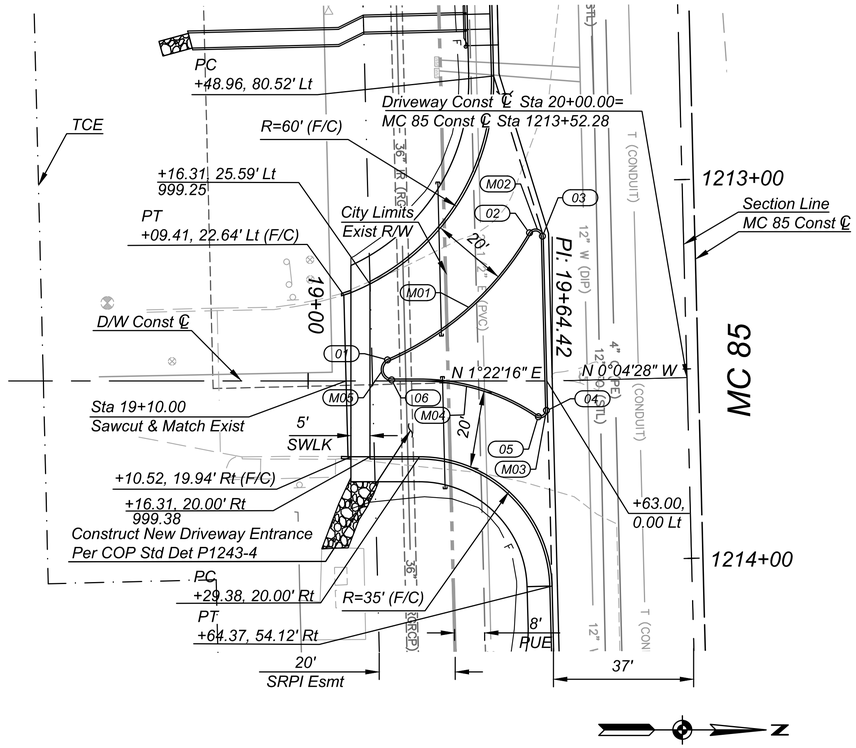
Kimley»Horn

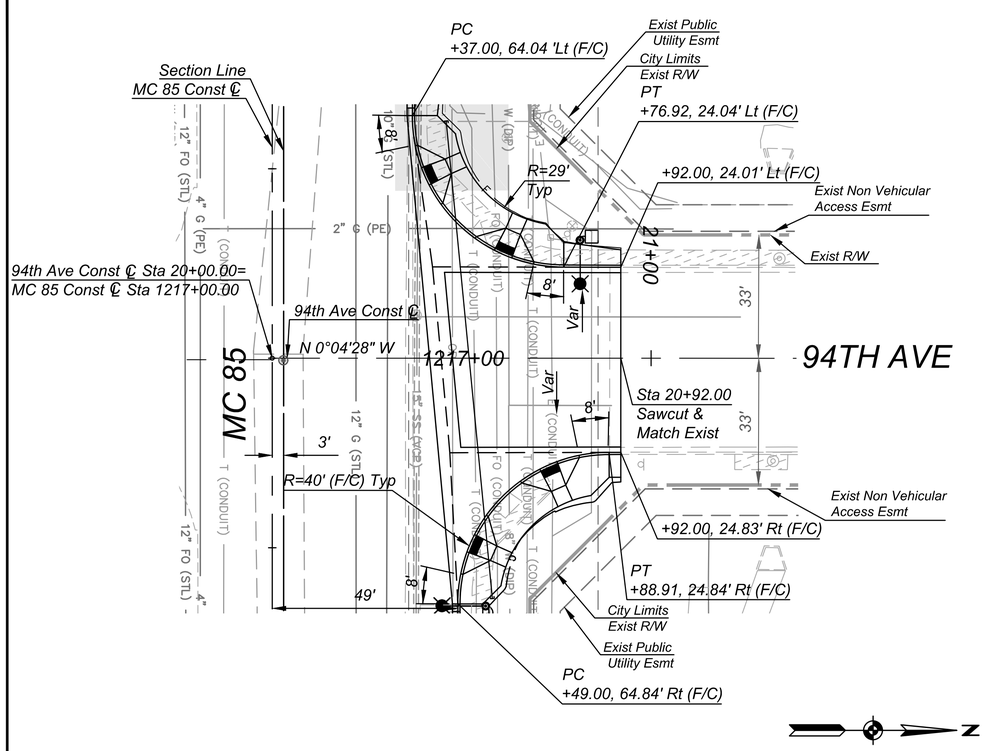
DRIVEWAY DETAIL SHEET
MC 85 Sta 1211+80.00 & 91st Ave Sta 316+05.81

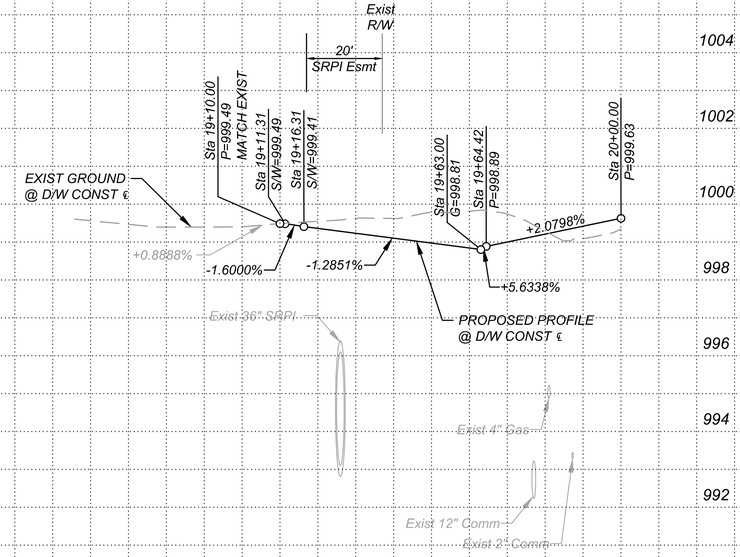
SHEET P41 OF P54

TRACS NO. _____

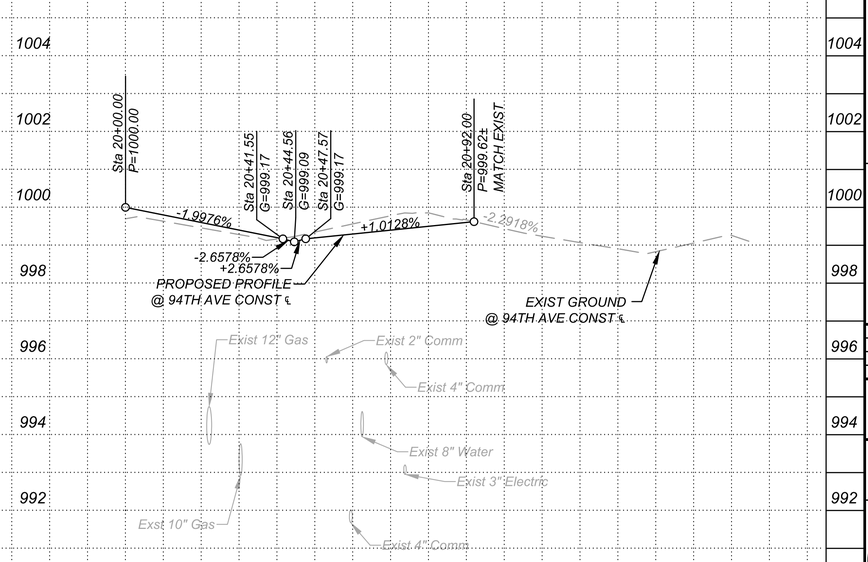
Plot Time: 9:48:48pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_DVWY09a.dwg







DRIVEWAY - MC 85 Sta 1213+52.28 Rt



94TH AVE - MC 85 Sta 1217+00.00 Lt

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	63	132	

CONSTRUCTION

ISLAND CONTROL POINTS

POINT NO.	STATION	OFFSET	EI / R
01	19+21.12	5.75' Lt	999.26'
M01	19+42.38	19.44' Lt	80' Radius
02	19+58.30	39.08' Lt	999.26'
M02	19+60.53	40.02' Lt	2.00' Radius
03	19+62.04	38.13' Lt	998.79'
04	19+63.19	7.66' Rt	998.76'
M03	19+62.16	9.46' Rt	2.00' Radius
05	19+60.08	9.37' Rt	998.86'
M04	19+45.43	2.39' Rt	55' Radius
06	19+22.33	0.00' Rt	998.91'
M05	19+19.39	2.38' Lt	3.00' Radius

NOTE: CONSTRUCTION JOINTS SHALL FOLLOW ADOT STANDARD C-7.01 FOR LONGITUDINAL, TRANSVERSE, AND AC/FIBERMESH CONCRETE EDGE-SEAL JOINTS. FOR NEW FIBERMESH CONCRETE/EXISTING FIBERMESH CONCRETE EDGE JOINTS, USE JOINT DETAIL ON SHEET P52.

GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

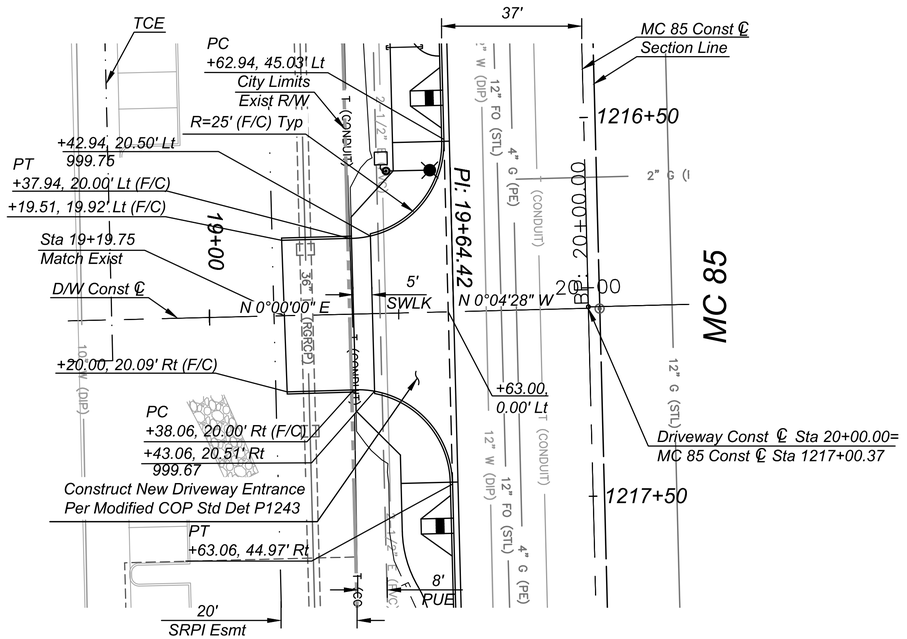
Kimley»Horn

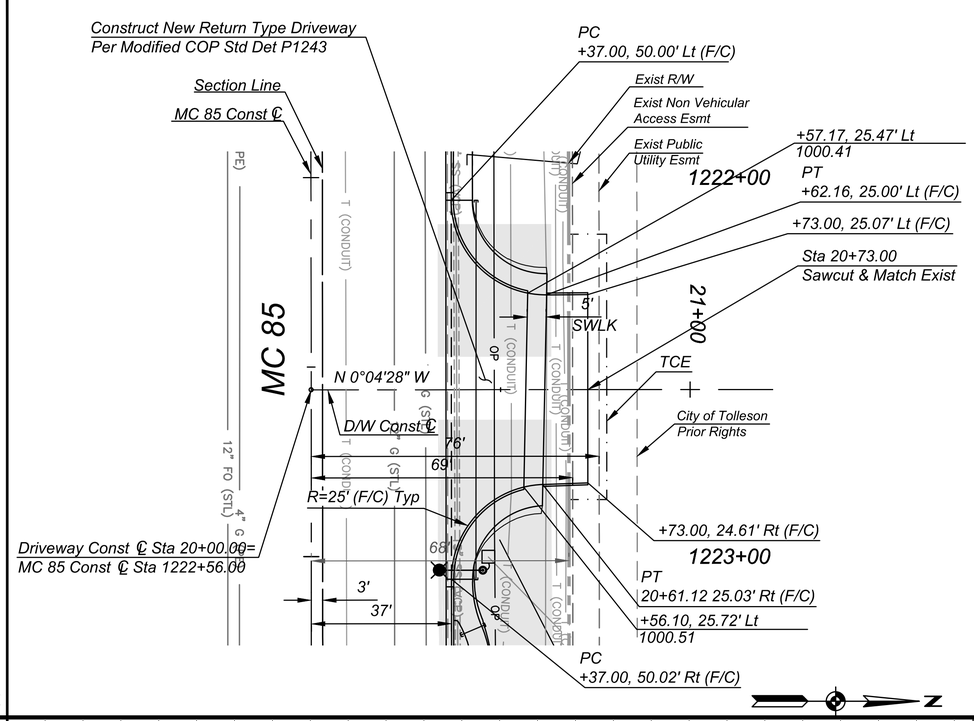
DRIVEWAY DETAIL SHEET
MC 85 Sta 1213+52.28 & Sta 1217+00.00

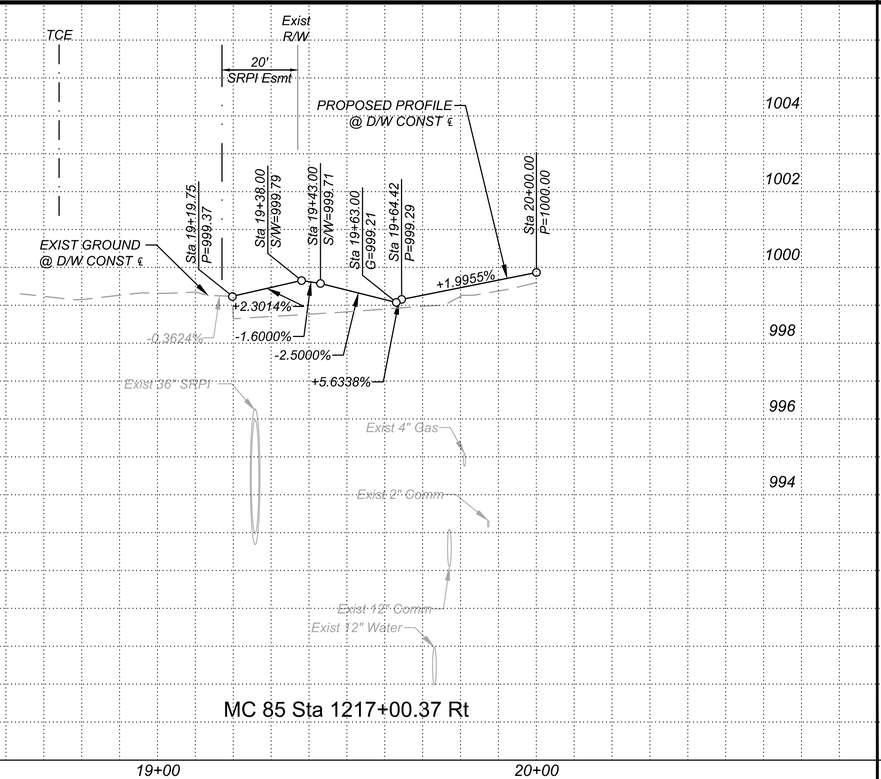
SHEET
P42 OF P54

TRACS NO. _____

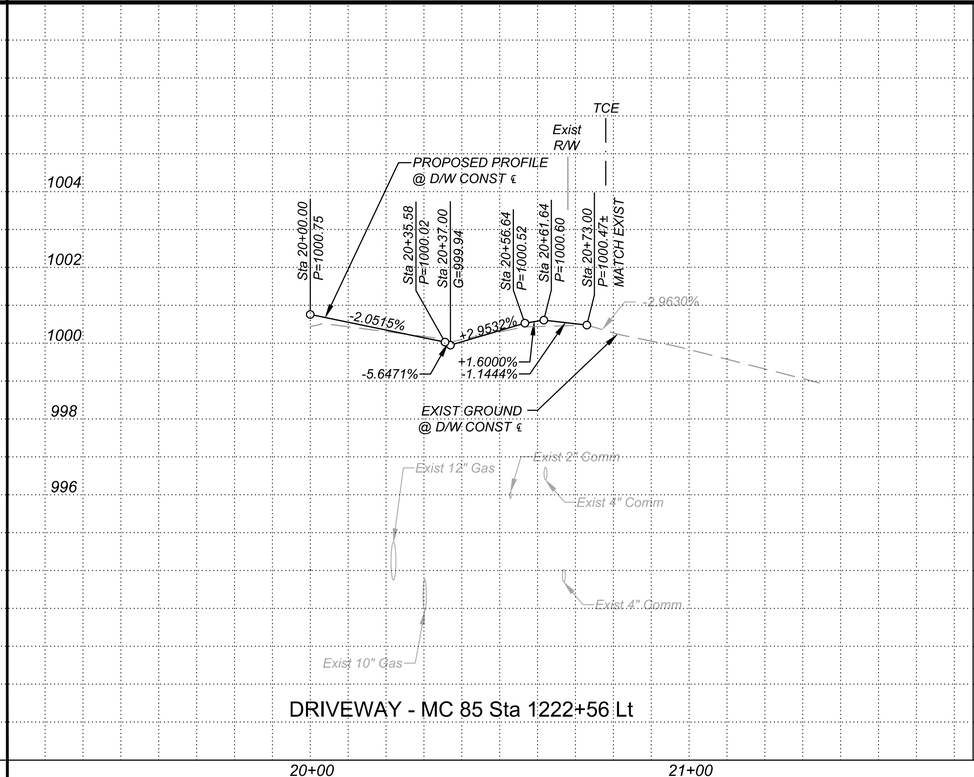
Plot Time: 9:52:47pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_DVWY09b.dwg







MC 85 Sta 1217+00.37 Rt



DRIVEWAY - MC 85 Sta 1222+56 Lt

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	64	132	

○ CONSTRUCTION ○

NOTE: CONSTRUCTION JOINTS SHALL FOLLOW ADOT STANDARD C–7.01 FOR LONGITUDINAL, TRANSVERSE, AND AC/FIBERMESH CONCRETE EDGE–SEAL JOINTS. FOR NEW FIBERMESH CONCRETE/EXISTING FIBERMESH CONCRETE EDGE JOINTS, USE JOINT DETAIL ON SHEET P52.

GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
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3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06/30/22
Mark Flood

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

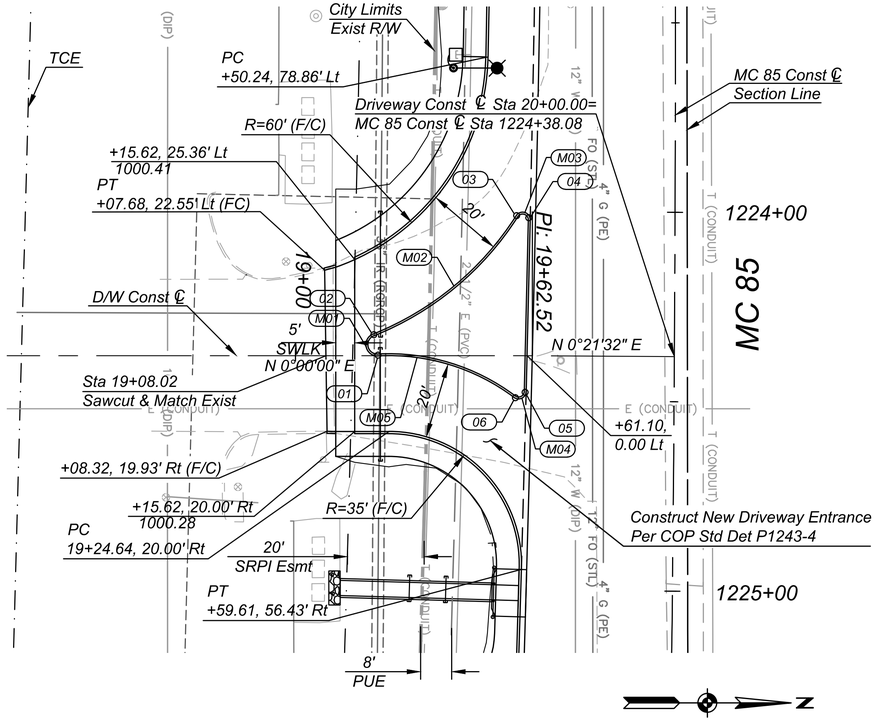
Kimley»Horn

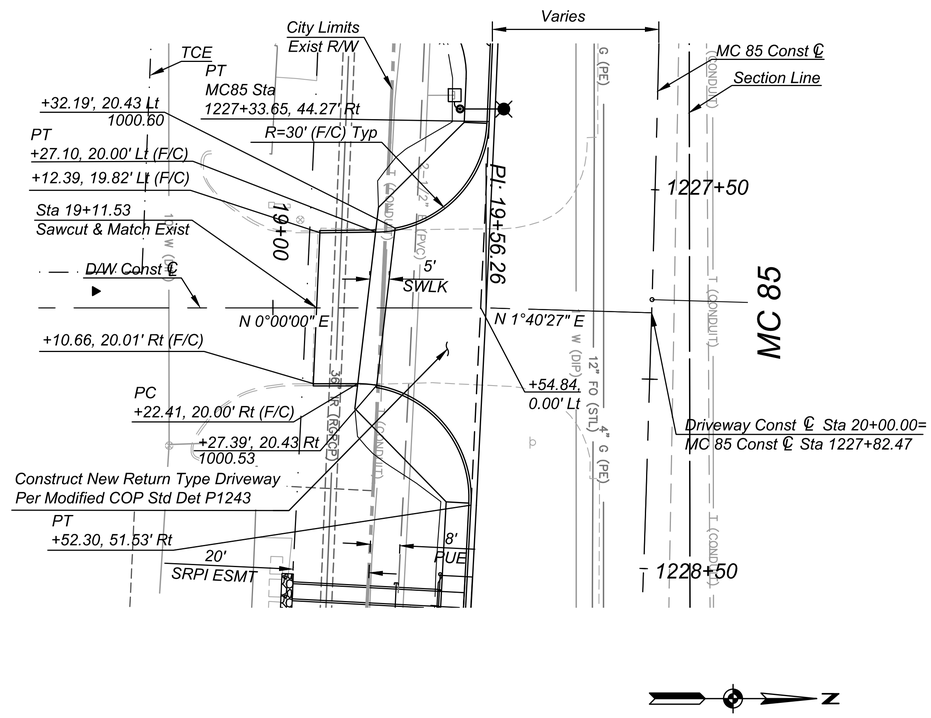
DRIVEWAY DETAIL SHEET
MC 85 Sta 1217+00.37 & Sta 1222+56.00

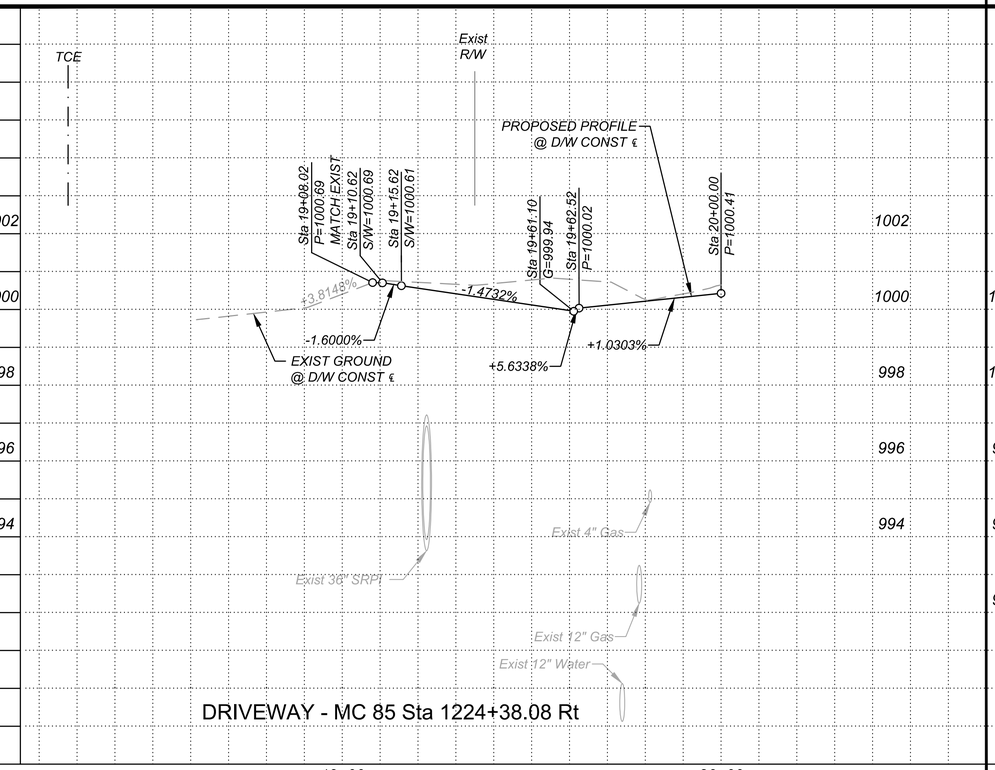
SHEET
P43 OF P54

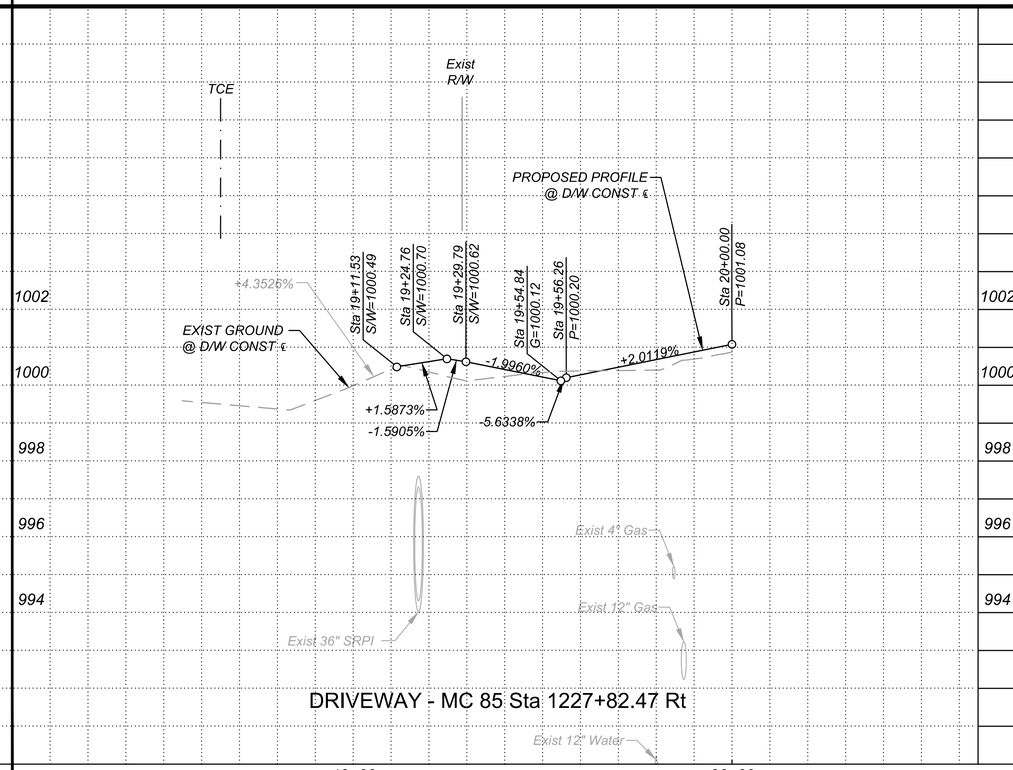
TRACS NO. _____

Plot Time: 9:56:58pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_DWYPP10.dwg









F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	65	132	

CONSTRUCTION

ISLAND CONTROL POINTS

POINT NO.	STATION	OFFSET	EI / R
01	19+21.78	0.07' Rt	1000.27'
M01	19+18.69	2.28' Lt	3.00' Radius
02	19+20.51	5.71' Lt	1000.30'
M02	19+41.83	18.36' Lt	80.00' Radius
03	19+58.25	36.93' Lt	1000.07'
M03	19+60.52	37.77' Lt	2.00' Radius
04	19+61.94	35.81' Lt	1000.00'
05	19+60.87	9.47' Rt	999.85'
M04	19+59.74	11.22' Rt	2.00' Radius
06	19+57.67	11.02' Rt	999.88'
M05	19+40.68	2.39' Rt	55.00' Radius

NOTE: CONSTRUCTION JOINTS SHALL FOLLOW ADOT STANDARD C-7.01 FOR LONGITUDINAL, TRANSVERSE, AND AC/FIBERMESH CONCRETE EDGE-SEAL JOINTS. FOR NEW FIBERMESH CONCRETE/EXISTING FIBERMESH CONCRETE EDGE JOINTS, USE JOINT DETAIL ON SHEET P52.

GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

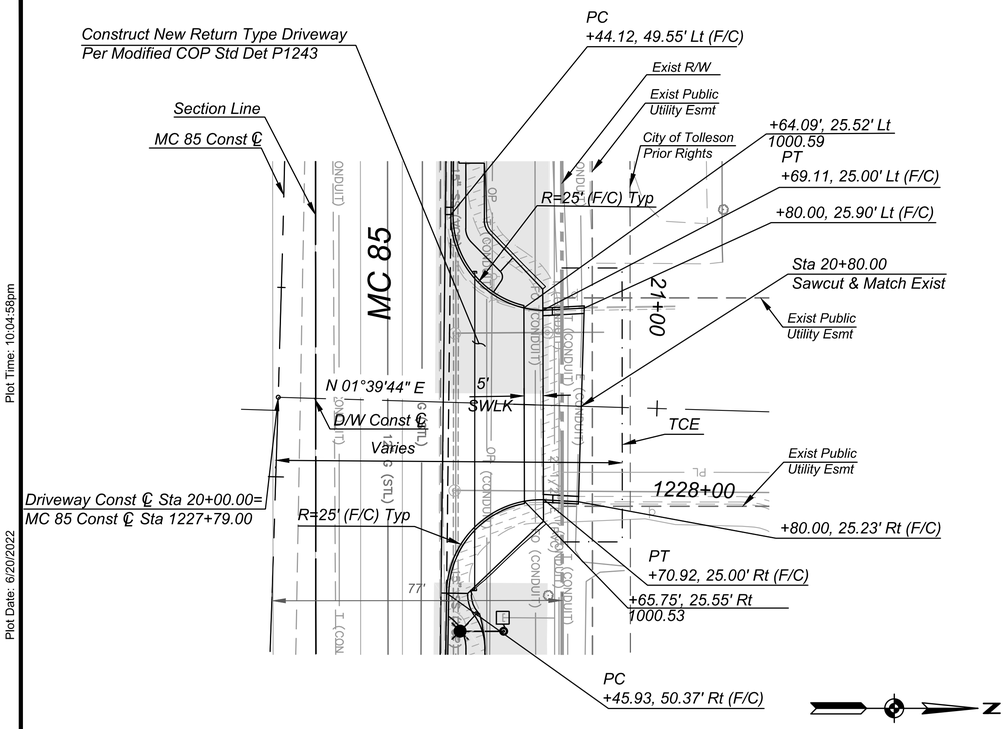
Kimley»Horn

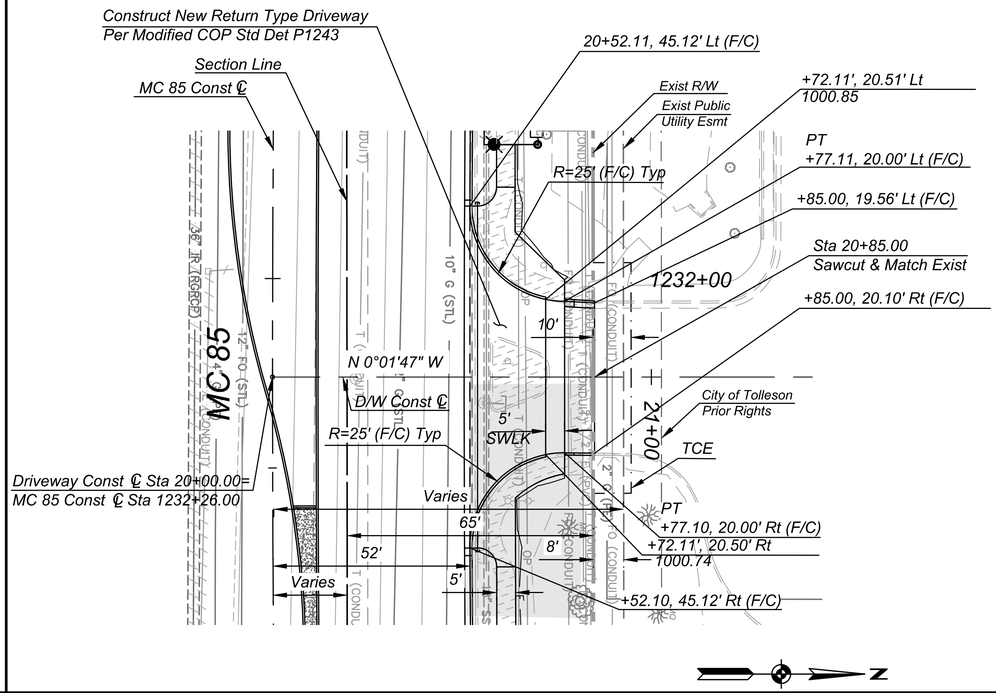
DRIVEWAY DETAIL SHEET
MC 85 Sta 1224+38.08 & Sta 1227+82.47

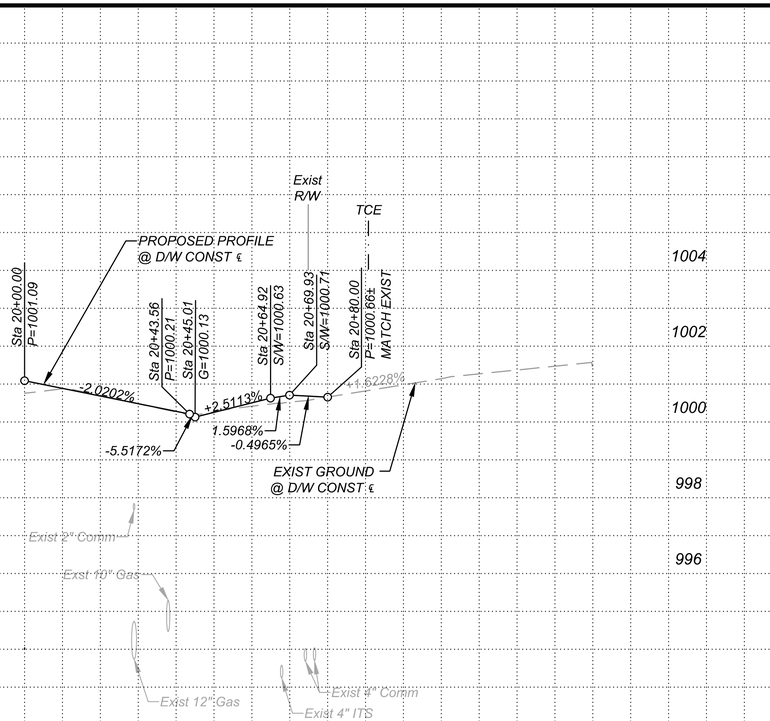
SHEET
P44 OF P54

TRACS NO. _____

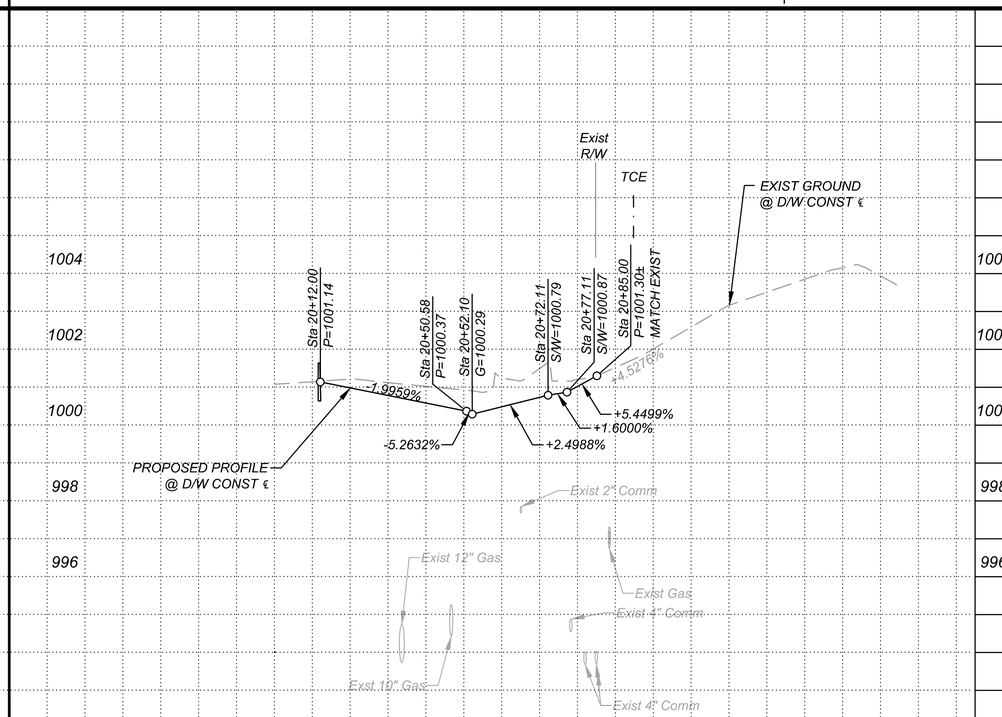
Plot Time: 10:00:57pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_DVWY10a.dwg







DRIVEWAY - MC 85 Sta 1227+79 Lt



DRIVEWAY - MC 85 Sta 1232+26 Lt

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	66	132	

○ CONSTRUCTION ○

NOTE: CONSTRUCTION JOINTS SHALL FOLLOW ADOT STANDARD C–7.01 FOR LONGITUDINAL, TRANSVERSE, AND AC/FIBERMESH CONCRETE EDGE–SEAL JOINTS. FOR NEW FIBERMESH CONCRETE/EXISTING FIBERMESH CONCRETE EDGE JOINTS, USE JOINT DETAIL ON SHEET P52.

GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06/22/22
ARIZONA U.S.A.

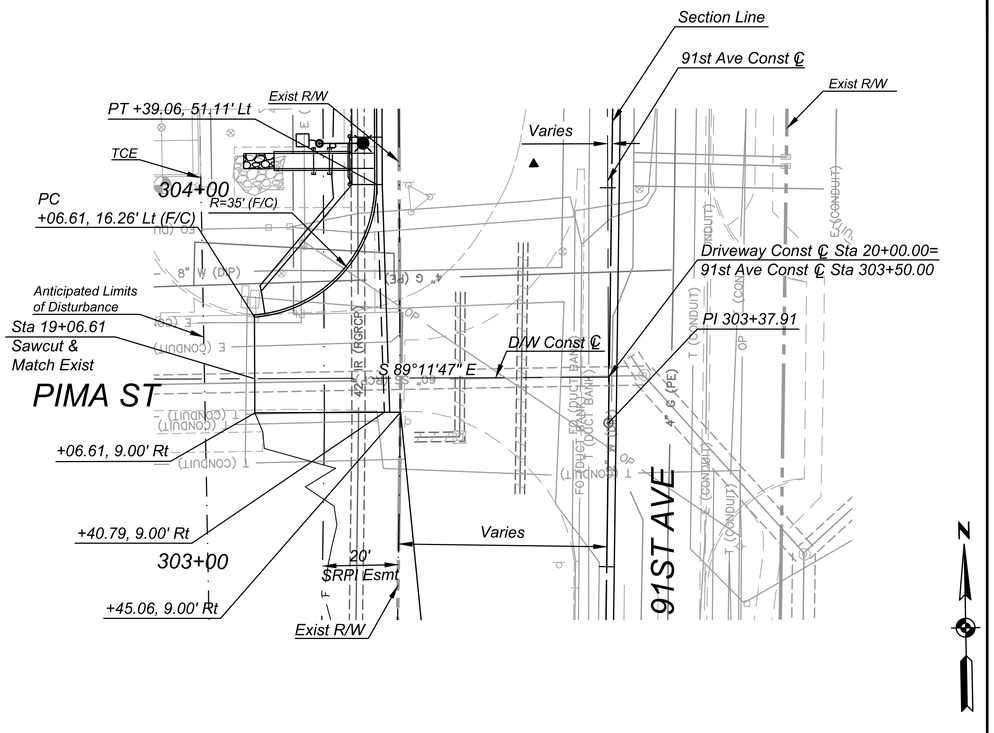
Kimley»Horn

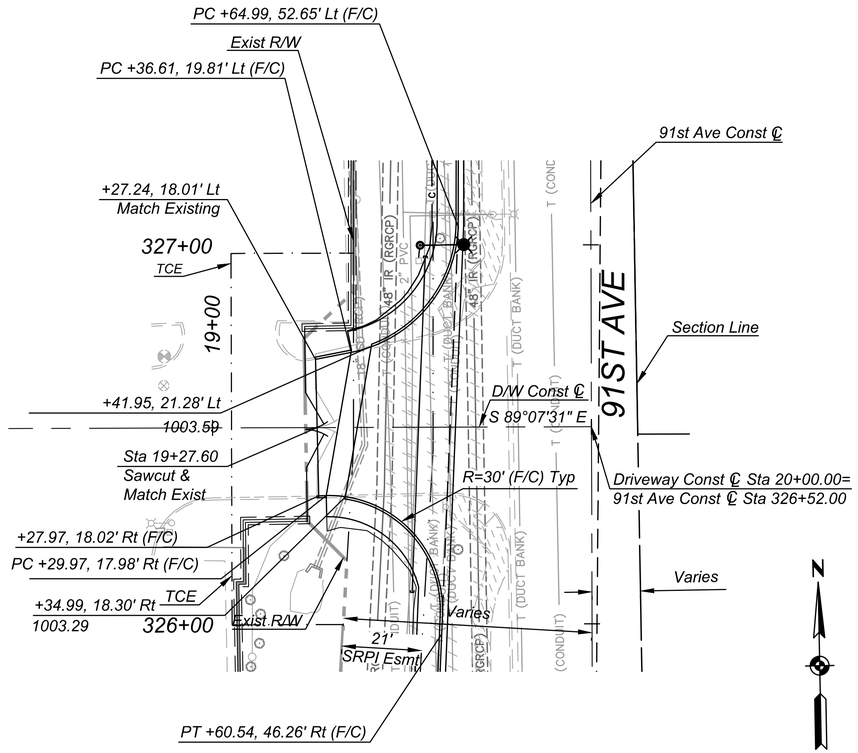
DRIVEWAY DETAIL SHEET
MC 85 Sta 1227+79.00 & Sta 1232+26.00

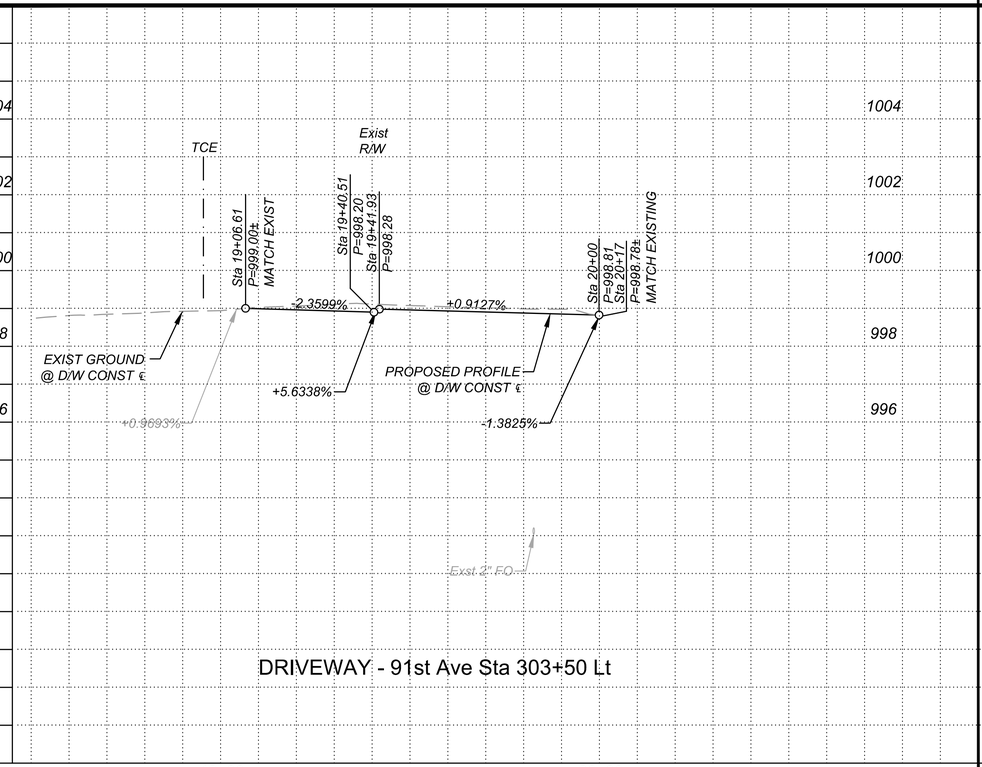
SHEET
P45 OF P54

TRACS NO. _____

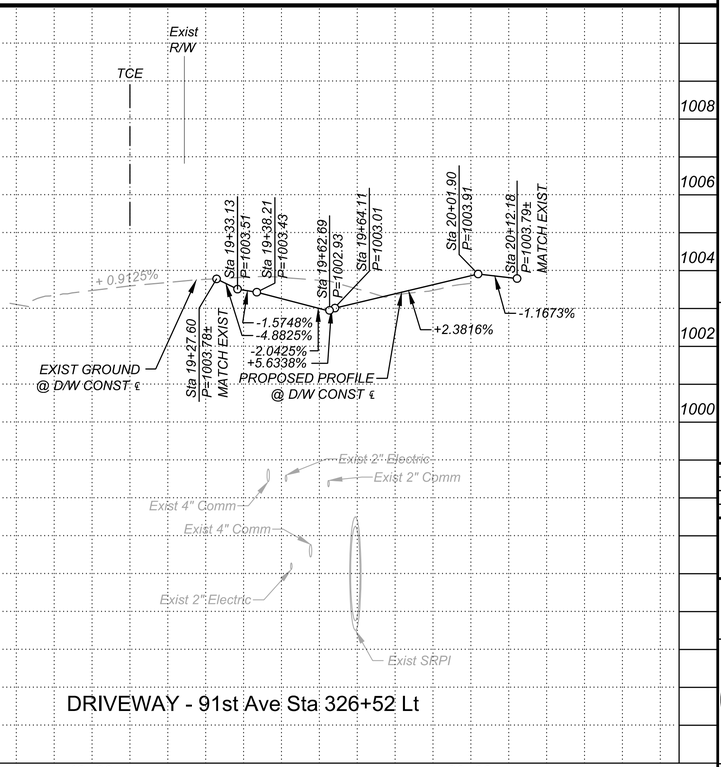
Plot Time: 10:04:58pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_DWYPP10a.dwg







DRIVEWAY - 91st Ave Sta 303+50 Lt



DRIVEWAY - 91st Ave Sta 326+52 Lt

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	67	132	

○ CONSTRUCTION ○

NOTE: CONSTRUCTION JOINTS SHALL FOLLOW ADOT STANDARD C–7.01 FOR LONGITUDINAL, TRANSVERSE, AND AC/FIBERMESH CONCRETE EDGE–SEAL JOINTS. FOR NEW FIBERMESH CONCRETE/EXISTING FIBERMESH CONCRETE EDGE JOINTS, USE JOINT DETAIL ON SHEET P52.

GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (CM)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA
Mark Flood

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

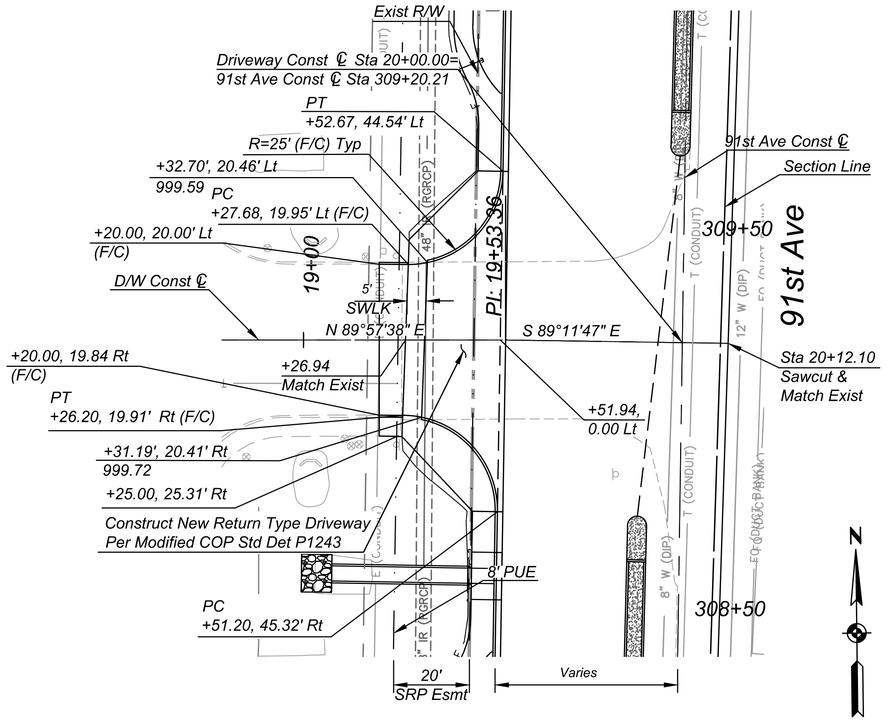
Kimley»Horn

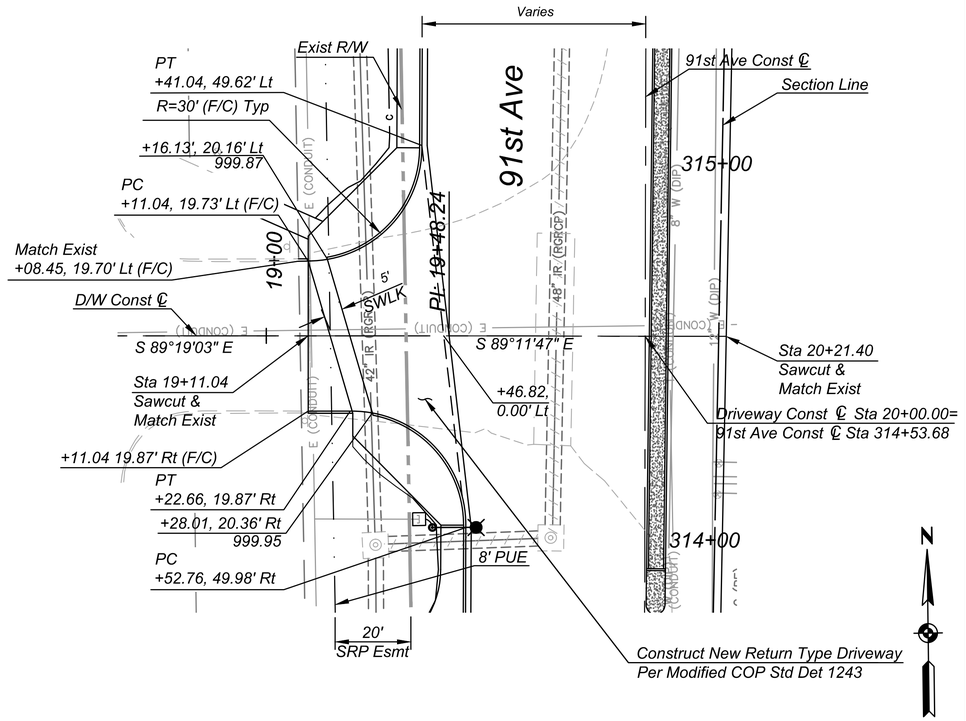
DRIVEWAY DETAIL SHEET
91st Ave Sta 303+50.00 & Sta 326+52.00

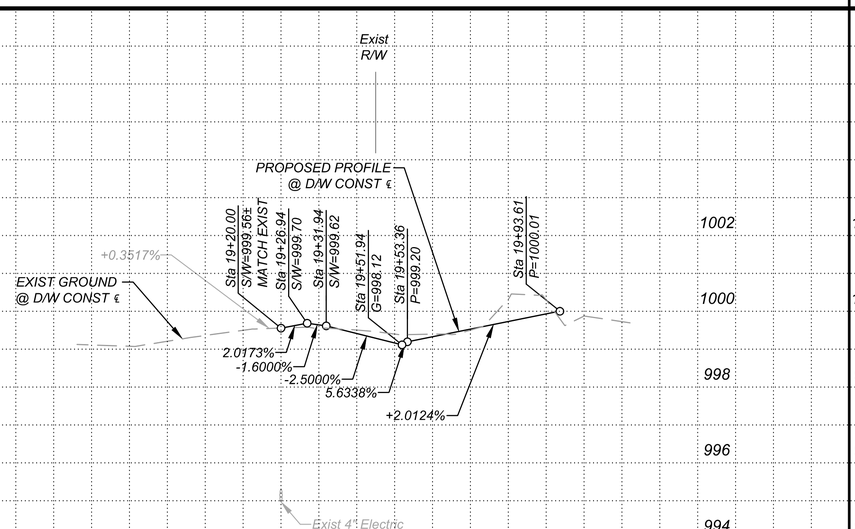
SHEET
P46 OF P54

TRACS NO. _____

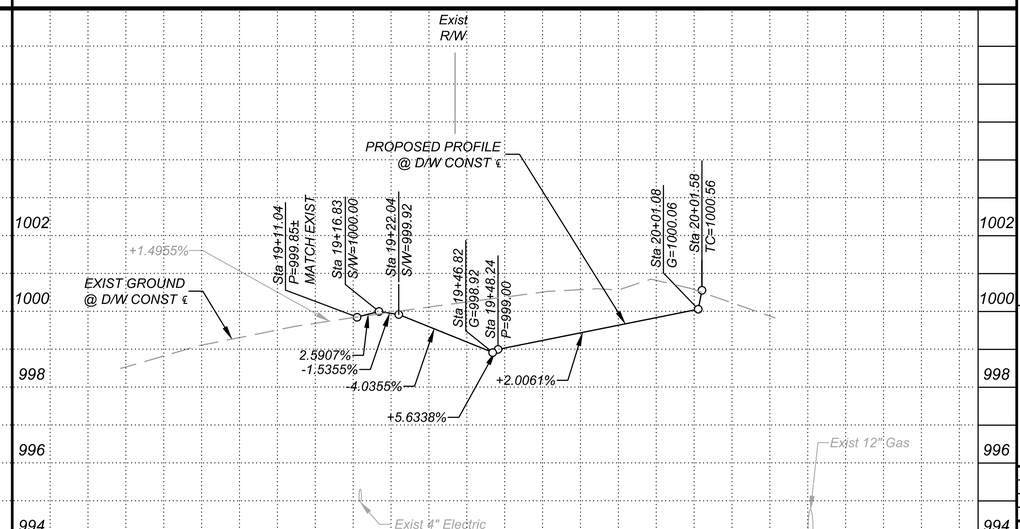
Plot Time: 10:09:14pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_DWYPP20a.dwg







DRIVEWAY - 91ST AVE Sta 309+20.21 Lt



DRIVEWAY - 91ST AVE Sta 314+53.68 Lt

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	68	132	

○ CONSTRUCTION ○

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GENERAL NOTES

1. ALL OFFSETS ARE TO GUTTER FLOW LINE UNLESS OTHERWISE NOTED.

SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

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NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

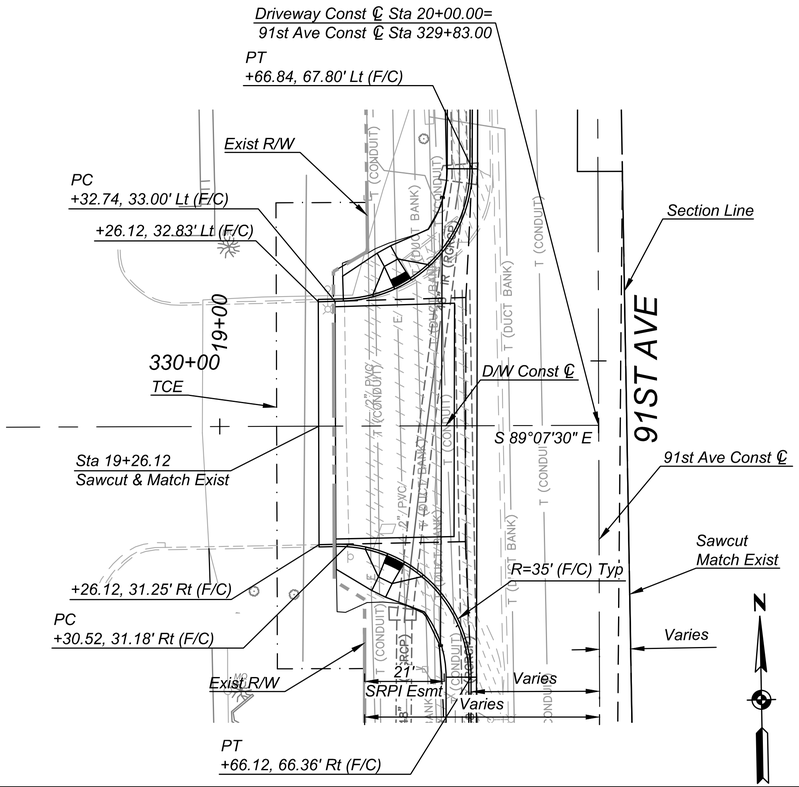
Kimley»Horn

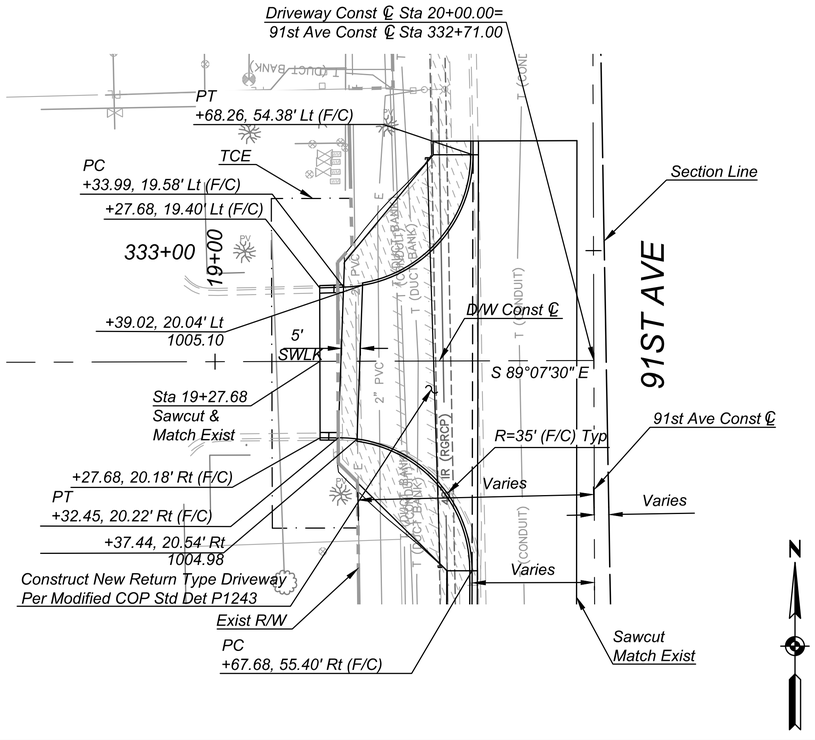
DRIVEWAY DETAIL SHEET
91st Ave Sta 309+20.21 & Sta 314+53.68

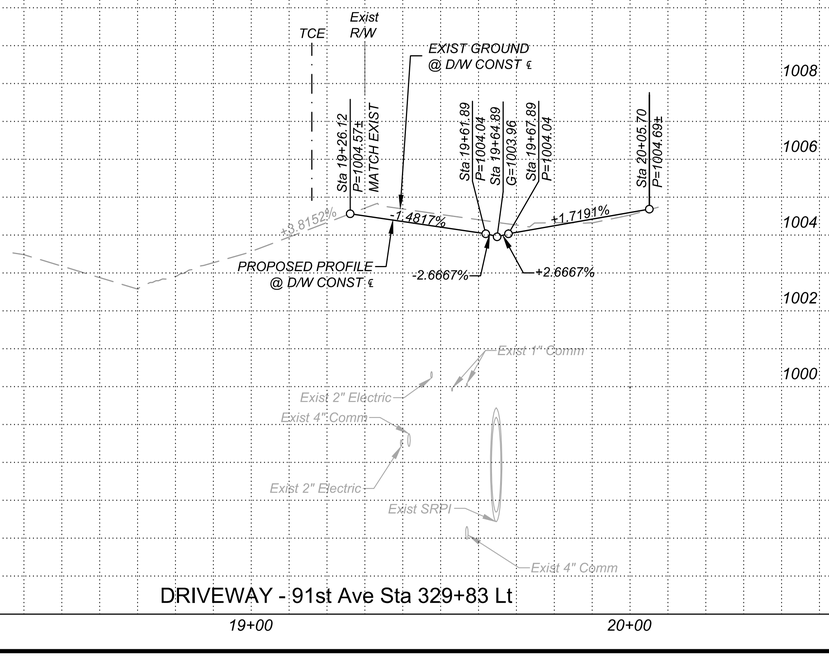
SHEET P47 OF P54

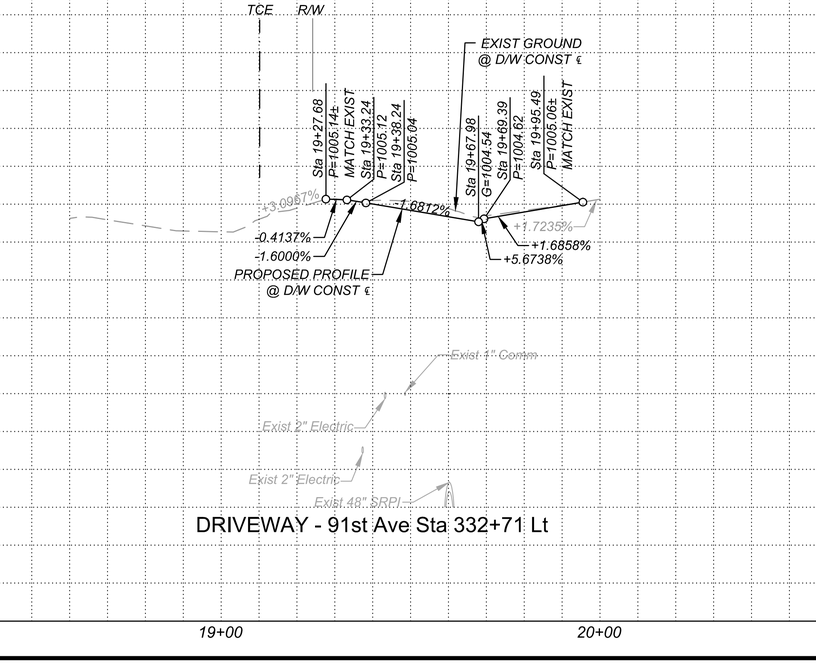
TRACS NO. _____

Plot Time: 12:03:05pm
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_DVWY20b.dwg









F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	69	132	

○ CONSTRUCTION ○

NOTE: CONSTRUCTION JOINTS SHALL FOLLOW ADOT STANDARD C-7.01 FOR LONGITUDINAL, TRANSVERSE, AND AC/FIBERMESH CONCRETE EDGE-SEAL JOINTS. FOR NEW FIBERMESH CONCRETE/EXISTING FIBERMESH CONCRETE EDGE JOINTS, USE JOINT DETAIL ON SHEET P52.

GENERAL NOTES

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SCALE: Hor: 1"=20'
Vert: 1"=2'

20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06/22/22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

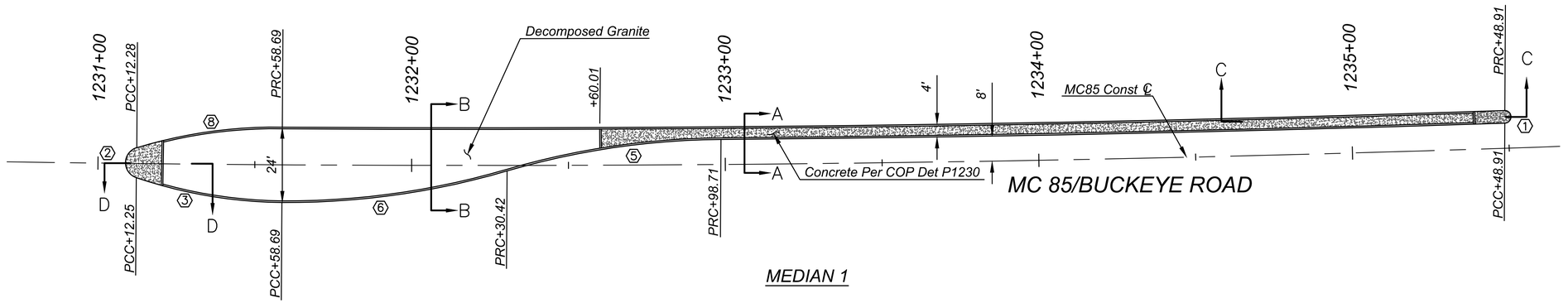
DRIVEWAY DETAIL SHEET
91st Ave Sta 329+83.00 & Sta 332+71.00

SHEET
P48 OF P54

TRACS NO. _____

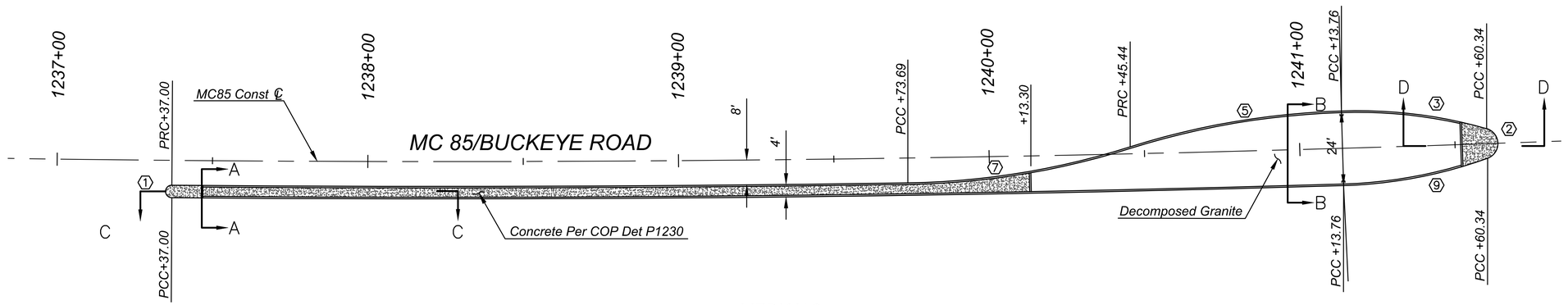
Plot Time: 10:17:15pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_DWYPP21.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	70	132	

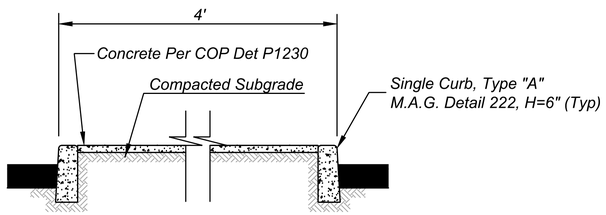


MEDIAN 1

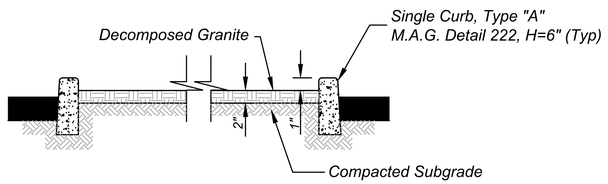
CURVE TABLE				
CURVE #	Δ	RADIUS	TANGENT	LENGTH
①	180°00'00"	2.00'	–	6.28'
②	144°21'48"	5.00'	15.56'	12.60'
③	18°03'42"	150.00'	23.84'	47.29'
⑤	15°51'21"	250.00'	34.81'	69.18'
⑥	16°40'28"	250.00'	36.64'	72.76'
⑦	16°40'29"	250.00'	36.64'	72.76'
⑧	17°59'14"	150.00'	23.74'	47.09'
⑨	18°06'00"	150.00'	23.89'	47.39'



MEDIAN 2



SECTION "A - A"
No Scale



SECTION "B - B"
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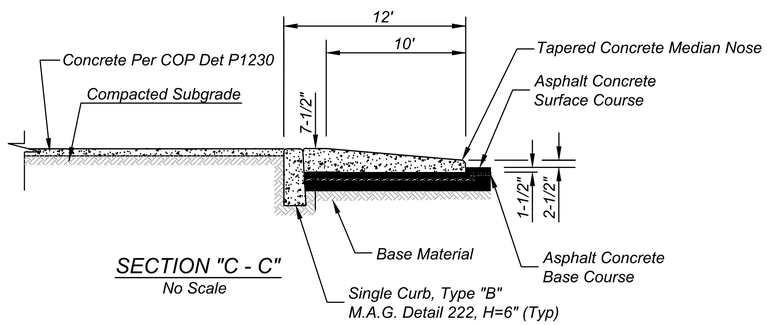

SECTION "C - C"
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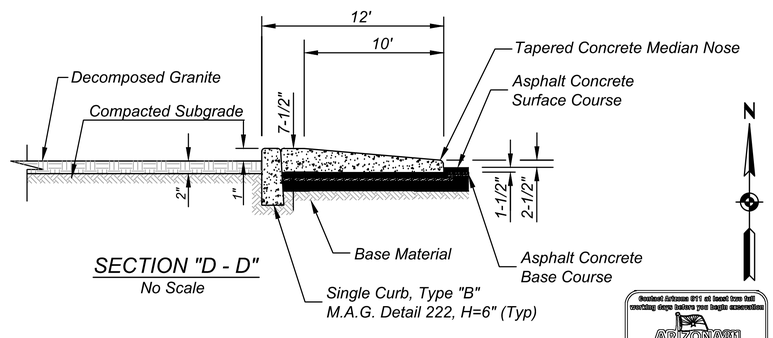


SECTION "D - D"
No Scale

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06/22/22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

MEDIAN DETAIL SHEET

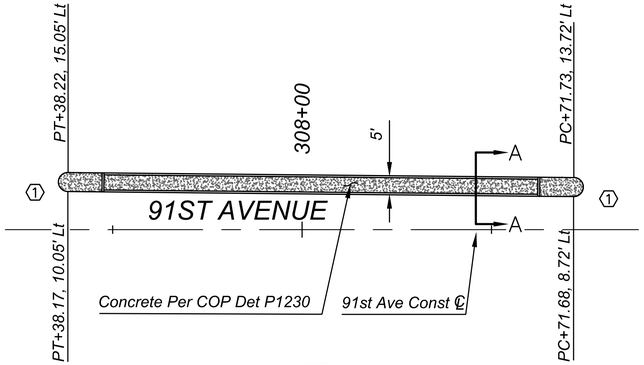
SHEET P49 OF P54

TRACS NO. _____

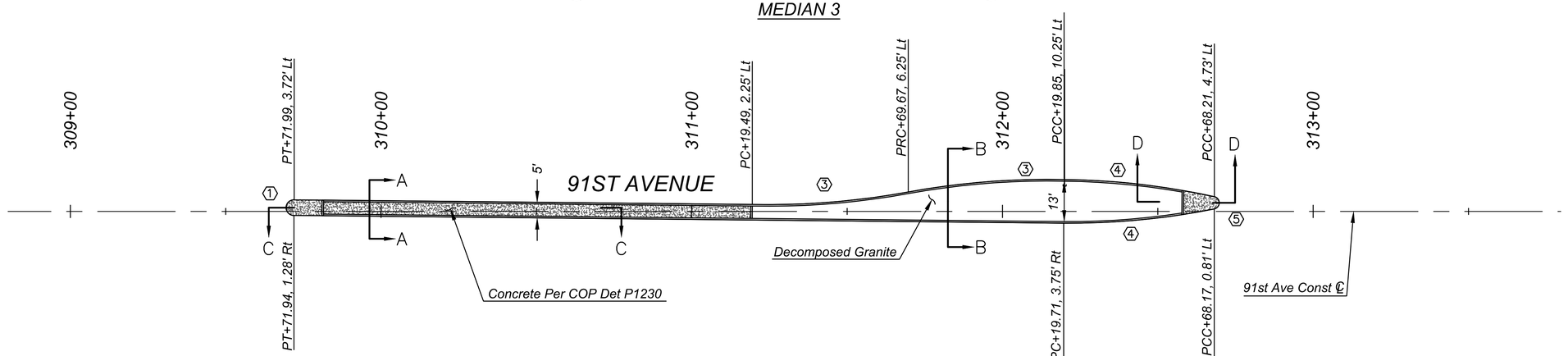
Plot Time: 10:18:15pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_MED01.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	71	132	

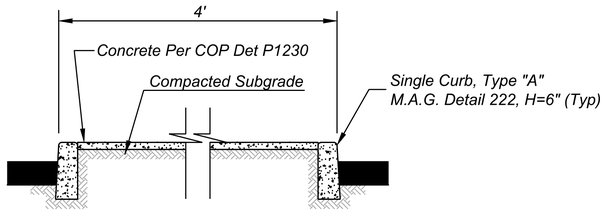
CURVE TABLE				
CURVE #	Δ	RADIUS	TANGENT	LENGTH
①	180°00'00"	2.50'	–	7.85'
②	11°31'30"	250.00'	25.23'	50.29'
③	11°33'26"	250.00'	25.30'	50.43'
④	09°26'00"	234.90'	19.38'	48.76'
⑤	156°20'28"	2.00'	9.55'	5.46'



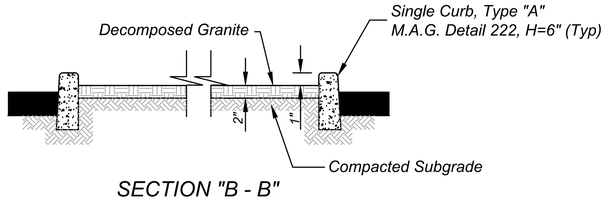
MEDIAN 3



MEDIAN 4



SECTION "A - A"
No Scale



SECTION "B - B"
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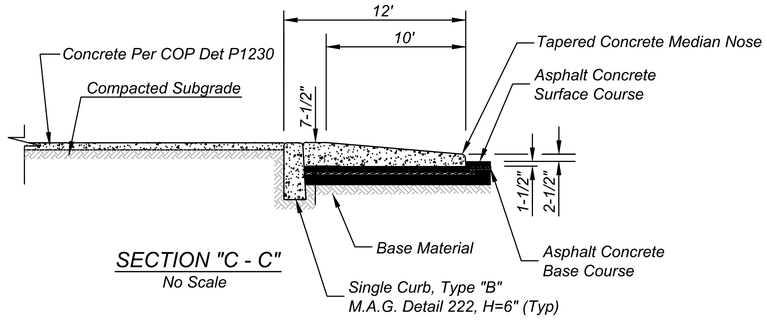

SECTION "C - C"
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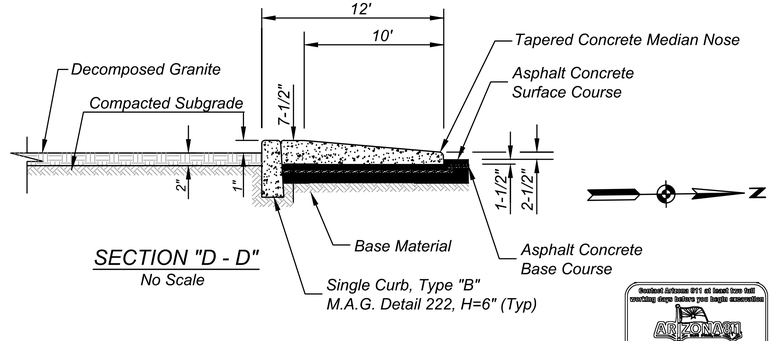


SECTION "D - D"
No Scale

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO
75511
MARK
FLOOD
Date Signed 06/30/22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

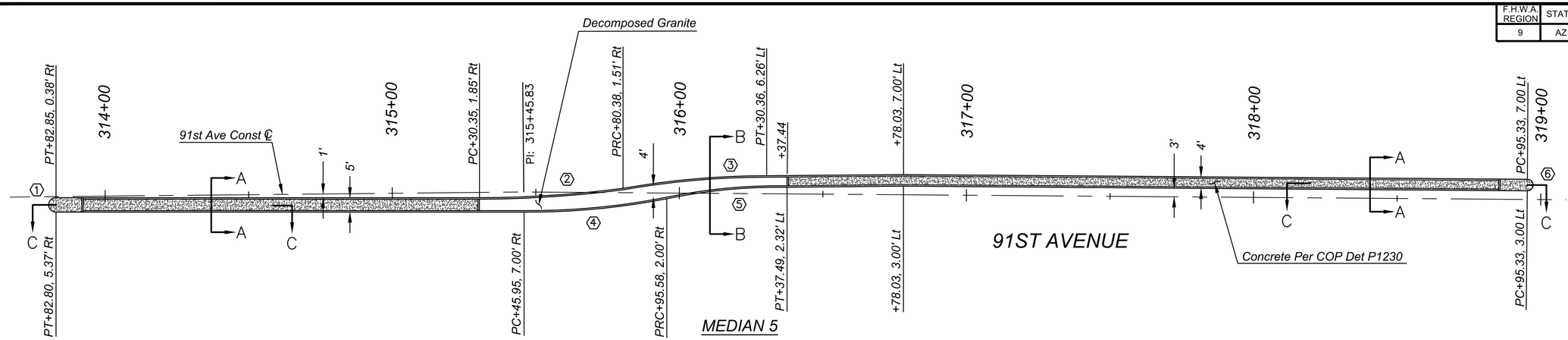
MEDIAN DETAIL SHEET

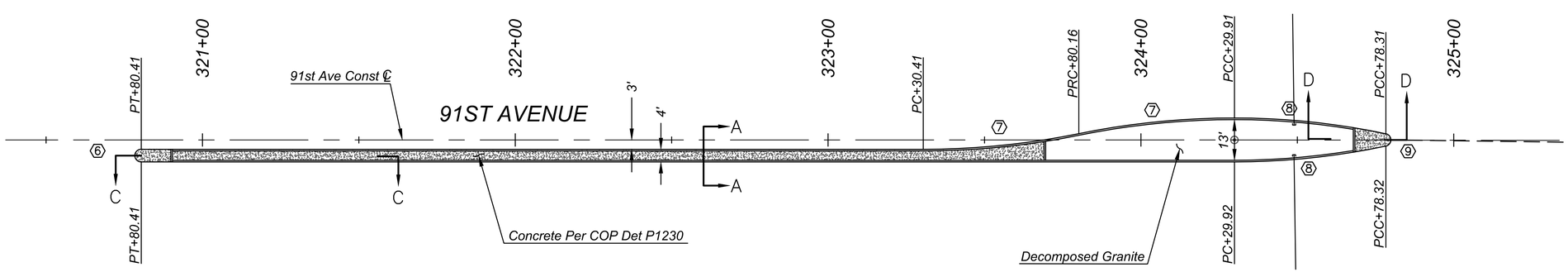
SHEET
P50 OF P54

TRACS NO. _____

Plot Time: 10:19:13pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_MED02.dwg

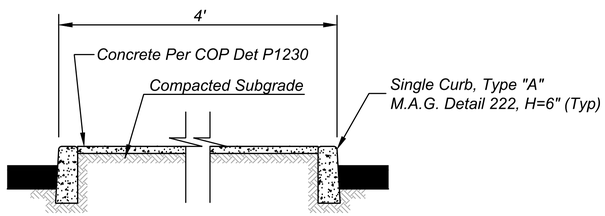
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	72	132	



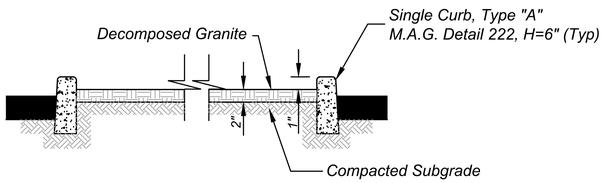


CURVE TABLE				
CURVE #	Δ	RADIUS	TANGENT	LENGTH
①	180°00'00"	2.50'	–	7.85'
②	07°16'16"	395.26'	25.11'	50.16'
③	10°05'44"	285.30'	25.20'	50.27'
④	11°27'08"	249.95'	25.06'	49.96'
⑤	12°41'44"	190.52'	21.19'	42.21'
⑥	180°00'00"	2.00'	–	6.28'
⑦	11°28'42"	250.00'	25.13'	50.08'
⑧	11°53'35"	234.90'	24.47'	48.76'
⑨	156°20'28"	2.00'	9.55'	5.46'

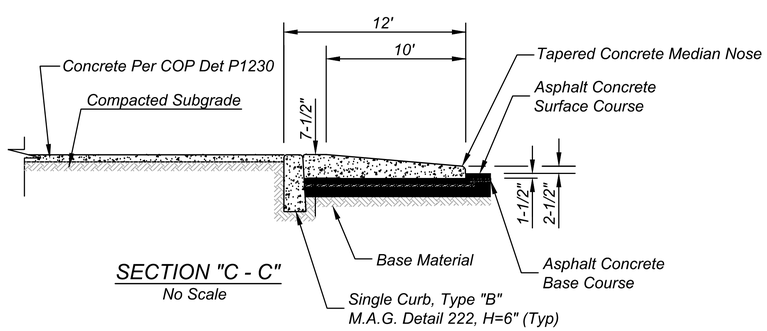
MEDIAN 6



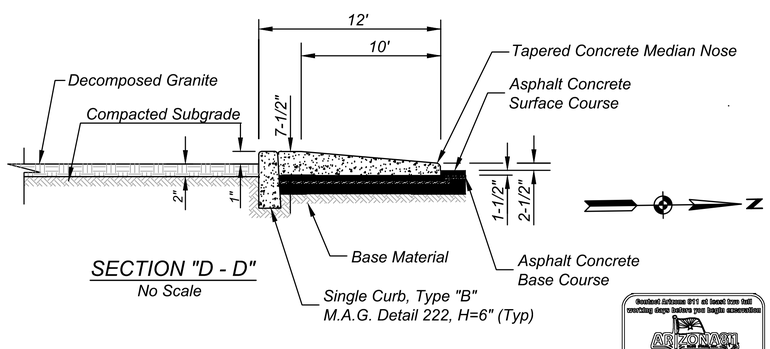
SECTION "A - A"
No Scale



SECTION "B - B"
No Scale



SECTION "C - C"
No Scale



SECTION "D - D"
No Scale

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ARIZONA U.S.A.

Kimley»Horn

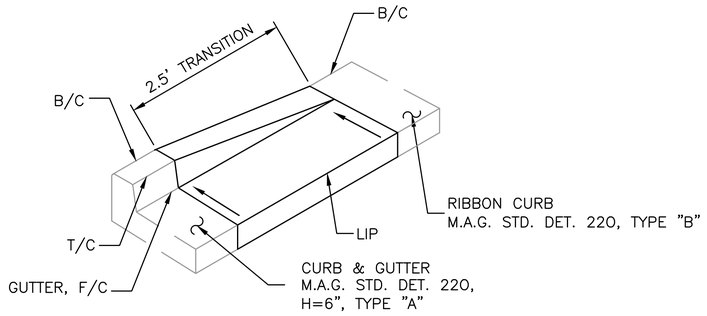
MEDIAN DETAIL SHEET

SHEET
P51 OF P54

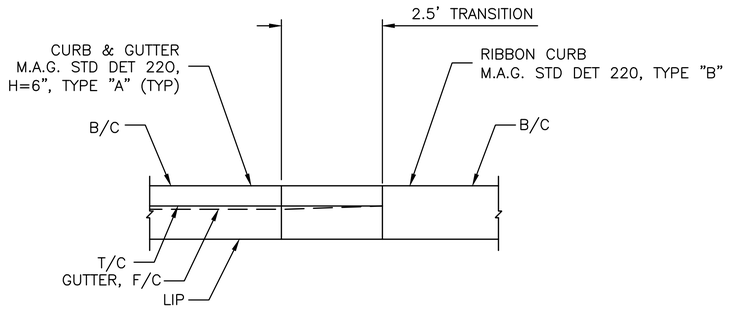
TRACS NO. _____

Plot Time: 10:20:12pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Roadway\AZE1019_MED03.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	73	132	



ISOMETRIC VIEW



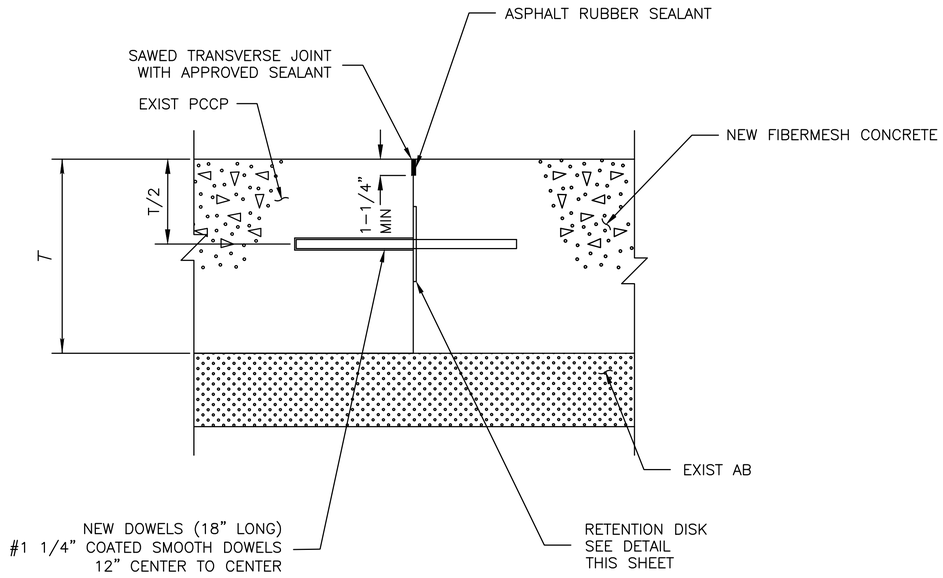
PLAN VIEW

2.5' TRANSITION DETAILS

NOTES

1. ALL EXPOSED SURFACES TO BE TROWEL FINISHED EXCEPT AS SHOWN. SEE SECTION 340.
2. CONTRACTION JOINT SPACING 10' MAX.
3. EXPANSION JOINT AS PER STD. SECT. 340.
4. TRANSITION SHALL BE PAID FOR AS CURB & GUTTER, M.A.G. STD. DET. 220, H=6" TYPE "A".

CURB & GUTTER TRANSITION DETAILS



TRANSVERSE CONSTRUCTION JOINT

(TC JOINT AT EXISTING CONCRETE)

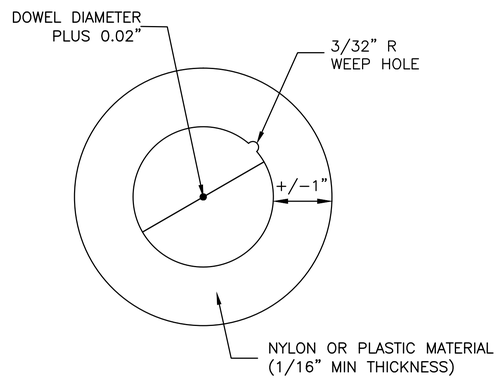
JOINT ABBREVIATIONS

T – FIBERMESH CONCRETE THICKNESS

TC – TRANSVERSE CONSTRUCTION JOINT AT EXIST FIBERMESH CONCRETE

TWP – TRANSVERSE WEAKEND PLANE JOINT

NOTE:
FOR ADDITIONAL JOINTING DETAILS
SEE ADOT STD C-07.01



RETENTION DISK

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-22-22
ACTIVE
ARIZONA, U.S.A.

Kimley»Horn

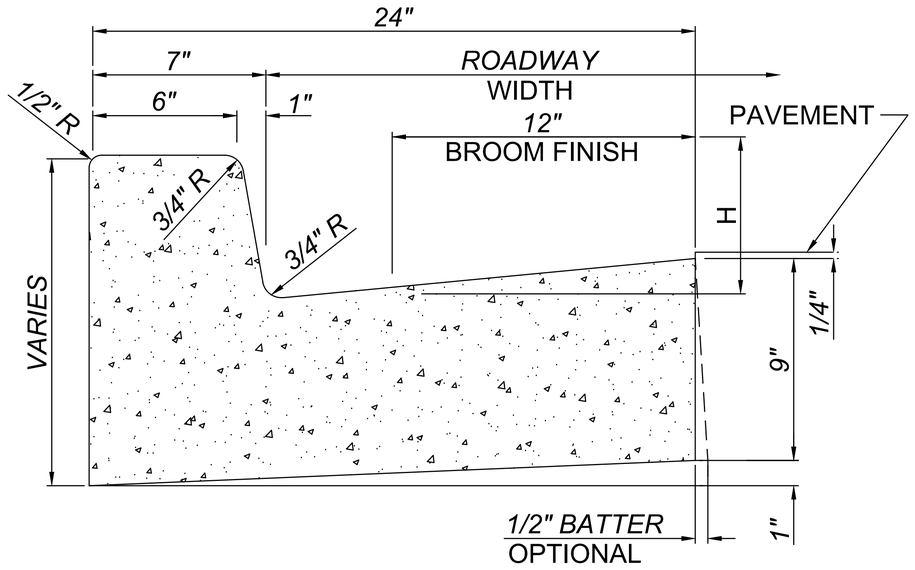
MISCELLANEOUS DETAILS

SHEET
P52 OF P54

Dial 811 or visit Arizona811.com

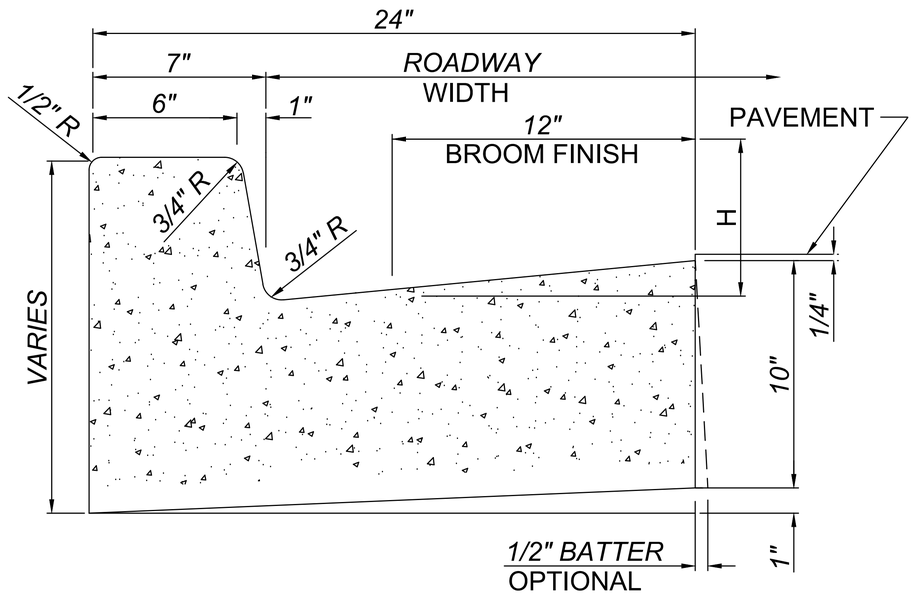
TRACS NO. _____

Plot Time: 10:20:52pm
Plot Date: 6/20/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Caddd\03-Sheets\Roadway\AZE1019_PD03.dwg



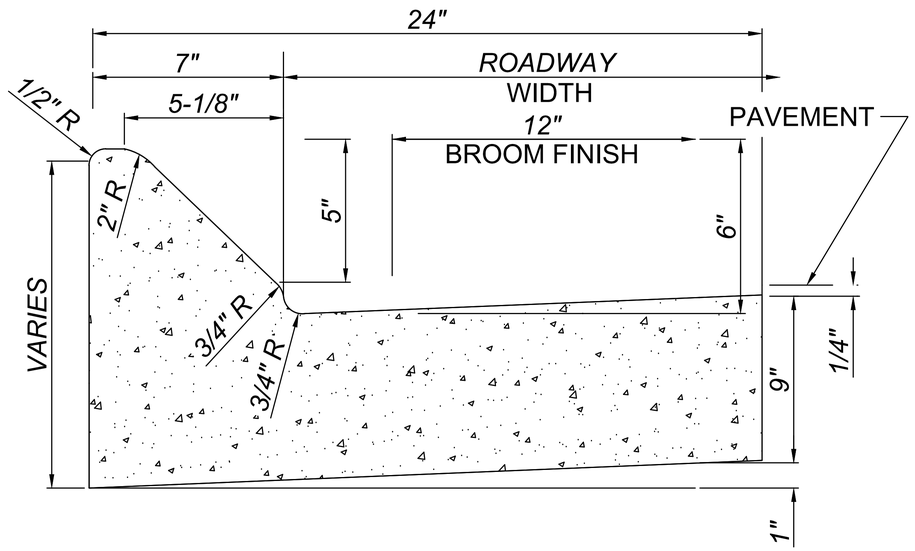
9 IN GUTTER PAN DETAIL
PER MODIFIED MAG STD DET 220, TYPE A

N.T.S.



10 IN GUTTER PAN DETAIL
PER MODIFIED MAG STD DET 220, TYPE A

N.T.S.

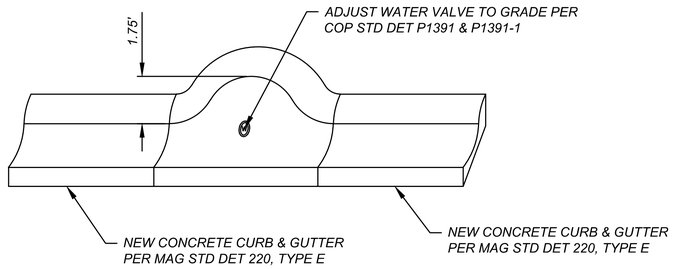


9 IN MOUNTABLE GUTTER PAN DETAIL
PER MODIFIED MAG STD DET 220, TYPE E

N.T.S.

NOTE:
CONTRACTOR TO MAINTAIN 4' SIDEWALK WIDTH BEHIND CURB IMPROVEMENTS.

NO ADDITIONAL MEASUREMENTS OR PAYMENTS WILL BE PROVIDED FOR THE CONSTRUCTION OF THE CURB WRAP-AROUND.



CURB WRAP-AROUND DETAIL

N.T.S.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	74	132	

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO
75511
MARK
FLOOD
Date Signed 06-30-22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

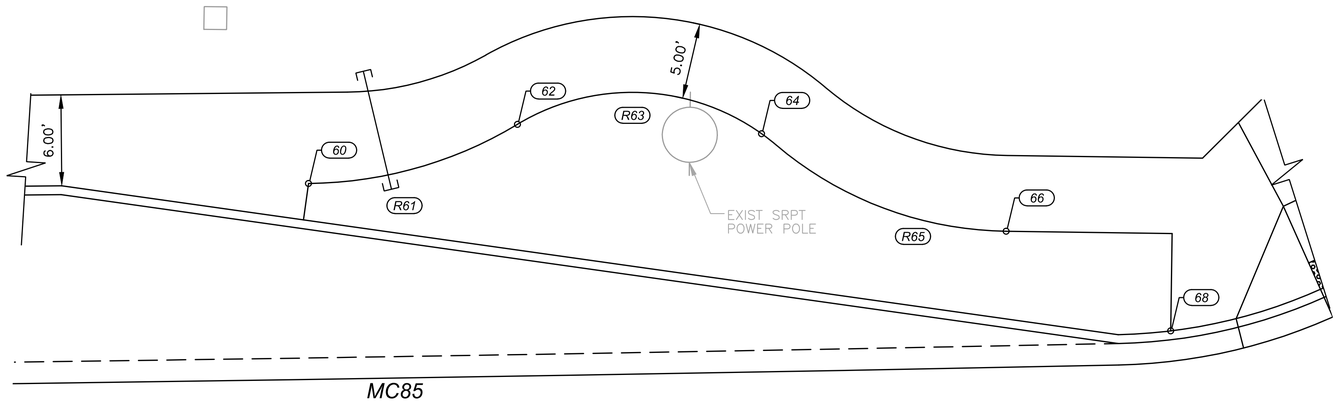
CURB DETAIL SHEET

SHEET
P53 OF P54

TRACS NO. _____

Plot Time: 12:03:11pm
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019U07.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	75	132	

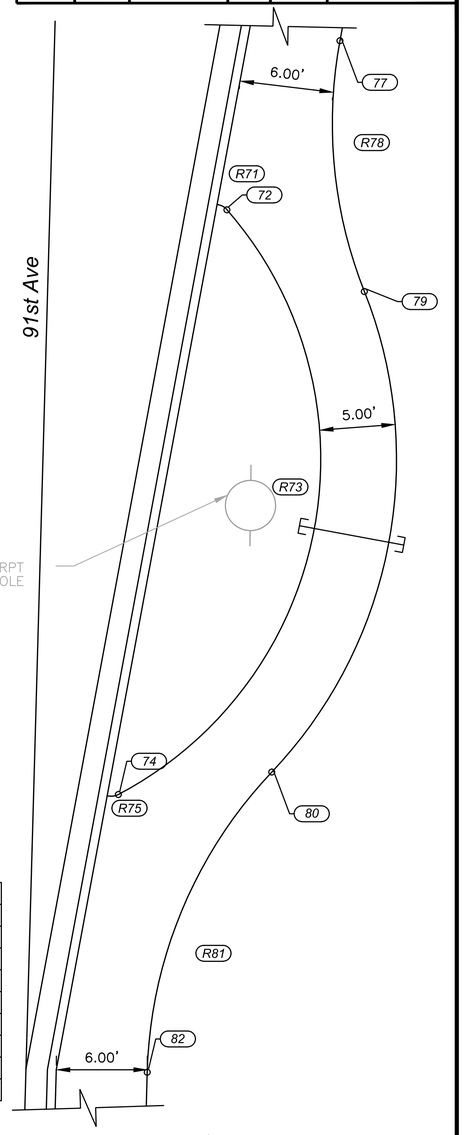


MC85

SIDEWALK DETAIL (AROUND EXIST SRP POWER POLE)

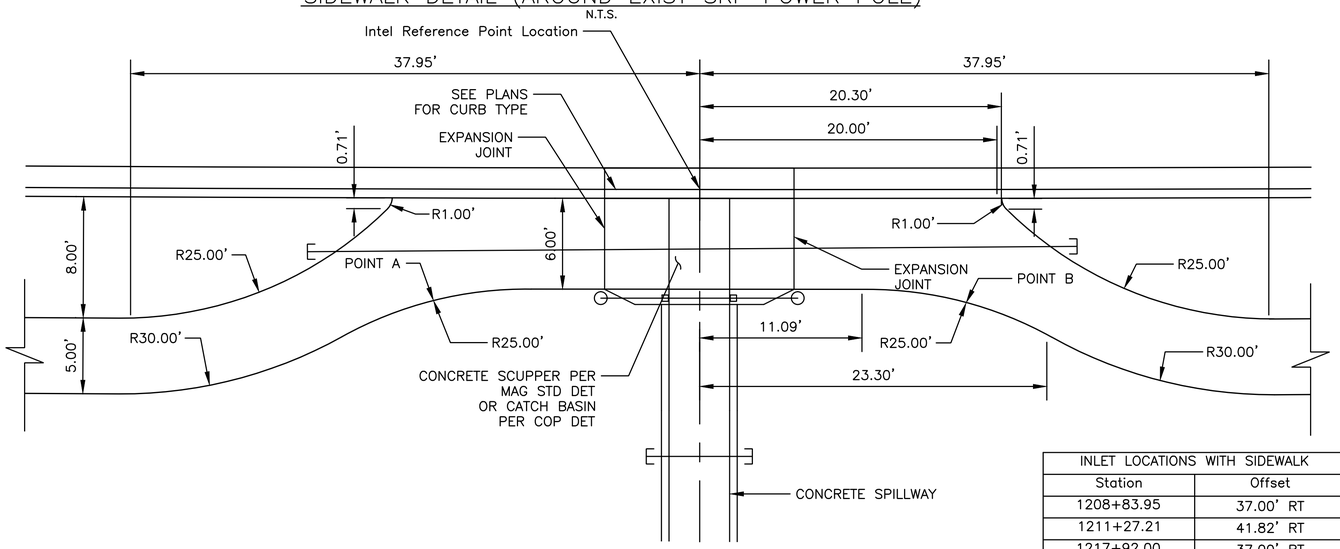
N.T.S.

SIDEWALK CONTROL POINTS				
POINT NO.	STATION	OFFSET	ELEVATION	REMARKS
60	1235+05.52	63.51' LT	1001.43'	S/W FG
R61	1235+05.67	90.76' LT	–	27.25' Radius
62	1235+19.46	67.19' LT	1001.66'	S/W FG
R63	1235+26.87	54.47' LT	–	14.70' Radius
64	1235+36.63	65.52' LT	1001.87'	S/W FG
R65	1235+52.60	83.54' LT	–	35.00' Radius
66	1235+51.79	59.55' LT	1001.99'	S/W FG
68	1235+62.57	52.76' LT	1001.97'	S/W FG
R71	321+61.51	56.53' RT	–	1.00' Radius
72	321+62.19	57.27' RT	1001.15'	S/W FG
R73	321+45.22	38.91' RT	–	25.00' Radius
74	321+23.43	51.17' RT	1001.23'	S/W FG
R75	321+24.30	50.68' RT	–	1.00' Radius
77	321+73.56	64.41' RT	1001.21'	S/W FG
R78	321+68.90	94.04' RT	–	30.00' Radius
79	321+57.06	66.48' RT	1001.32'	S/W FG
80	321+25.19	61.25' RT	1001.38'	S/W FG
R81	321+05.16	83.58' RT	–	30.00' Radius
82	321+05.16	53.58' RT	1001.35'	S/W FG



SIDEWALK DETAIL (AROUND EXIST SRP POWER POLE)

N.T.S.



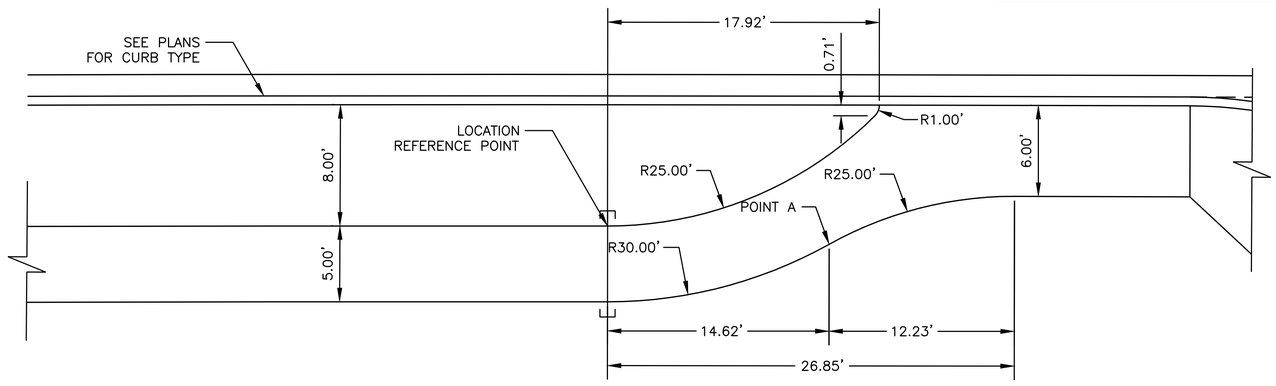
SIDEWALK DETAIL (W/ SCUPPER Per MAG Det 206)

N.T.S.

NOTE:

1. ALL POINTS MEASURED FROM CONCRETE SCUPPER CENTERLINE AT FACE OF CURB
2. 1208+83.95, 1217+92.00, 1225+00.51, & 1228+60.00 ARE FOR THE EAST SIDE OF INLET ONLY
3. 1211+27.21 IS FOR THE WEST SIDE OF INLET ONLY
4. 308+57.86 IS FOR THE SOUTH SIDE OF INLET ONLY

INLET LOCATIONS WITH SIDEWALK		POINT A		POINT B	
Station	Offset	Station	Offset	Station	Offset
1208+83.95	37.00' RT	–	–	1209+07.25	46.77' RT
1211+27.21	41.82' RT	1211+03.02	48.56' RT	–	–
1217+92.00	37.00' RT	1217+72.73	46.77' RT	1218+15.29	46.77' RT
1225+00.94	40.04' RT	–	–	1225+23.84	50.23' RT
1228+60.00	46.57' RT	–	–	1228+83.22	56.75' RT
1233+50.00	52.00' RT	1233+26.58	61.76' RT	1233+73.12	61.76' RT
308+57.86	48.16' LT	308+34.57	57.97' LT	–	–
311+81.82	47.61' LT	311+58.53	57.42' LT	312+06.12	57.92' LT



SIDEWALK DETAIL (TRANSITION FROM ATTACHED TO DETACHED SIDEWALK)

N.T.S.

REFERENCE POINT LOCATIONS		POINT A	
Station	Offset	Station	Offset
1214+44.32	45.58' RT	1214+29.67	46.77' RT
1220+15.52	45.58' RT	1220+30.17	46.77' RT
1226+94.94	52.15' RT	1227+09.60	53.61' RT
306+94.92	57.02' LT	306+80.28	58.23' LT
310+03.24	56.50' LT	309+88.59	57.71' LT

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811 Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-24-22 Arizona U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

SIDEWALK DETAIL SHEET

SHEET P54 OF P54

TRACS NO. _____

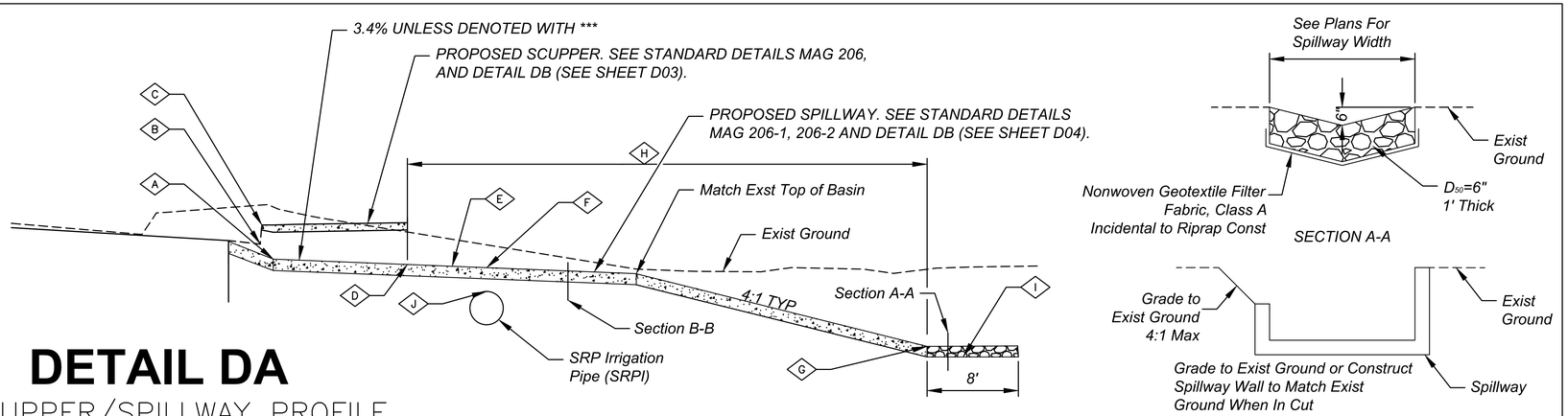
Plot Time: 12:03:17pm
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Roadway\AZE1019_PD03A.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	76	132	

SCUPPER DESIGN SUMMARY SHEET MC85

Scupper Station	Road	Retention Basin	Scupper Number	No. of Curb Openings	Top of Curb	Gutter Elev	Scupper Lip Elev	Spillway Start Offset	Spillway Start Elev	Spillway Break Sta/Off	Spillway Break Elev	SRPI Crossing Sta/Off	SRPI Crossing Elev	Spillway End Sta/Off	Spillway End Elev	Total Spillway Length	Basin Bottom Elev *	Top of SRPI Pipe	Clearance to Bell
					C	B	A	D	D	E	E	F	F	G	G	H	I	J	N/A
1208+83.95	MC-85 (ON-GRADE)	14S	MAG 206-1	1-4'	998.27	997.77	997.60	44.58' RT	997.37	1208+83.95, 72.39' RT	996.35	N/A	N/A	1208+88.31, 83.25' RT	994.29	40	994.29	N/A	N/A
1211+27.21	MC-85 (ON-GRADE)	15S	MAG 206-1	1-4'	998.80	998.30	998.13	49.04' RT	998.04***	1211+25.50, 56.75' RT	998.00	1211+25.54, 63.00' RT	997.91	1211+25.58, 94.83' RT	994.60	46	994.60	996.39****	1.19
1212+57.00	MC-85 (ON-GRADE)	16S	MAG 206-1	1-4'	999.08	998.58	998.41	56.58' RT	998.18***	1212+57.00, 83.00' RT	997.96	1212+57.00, 74.19' RT	998.09	1212+60.10, 128.82' RT	994.00	73	994.00	996.54****	1.22
1217+92.00	MC-85 (SUMP)	17S	MAG 206-1	1-4'	999.53	999.03	998.86	44.58' RT	998.83***	N/A	N/A	1217+91.98, 74.20' RT	998.68	1217+91.97, 89.75' RT	996.00	46	996.00	996.93****	1.42
1225+00.94	MC-85 (SUMP)	18S	MAG 206-1	1-4'	1000.18	999.68	999.51	45.68' RT	999.48***	N/A	N/A	1225+00.25, 77.73' RT	999.33	1225+00.07, 87.71' RT	997.00	40	997.00	997.60****	1.39
1228+60.00	MC-85 (SUMP)	19S	MAG 206-1	1-4'	1000.29	999.79	999.62	54.15' RT	999.59***	N/A	N/A	1228+59.33, 83.43' RT	999.44	1228+59.16, 92.40' RT	996.90	39	996.90	997.69****	1.42
1233+50.00	MC-85 (SUMP)	19N	MAG 206-1	1-4'	1000.46	999.96	999.79	59.58' LT	999.56	N/A	N/A	N/A	N/A	1233+50.00, 109.00' LT	996.90	50	996.90	N/A	N/A
1233+50.00	MC-85 (SUMP)	20S	MAG 206-1	1-4'	1000.46	999.96	999.79	59.58' RT	999.76***	N/A	N/A	1233+50.02, 85.65' RT	999.63	1233+50.03, 96.68' RT	997.01	37	997.01	998.29****	1.01
1237+23.76	MC-85 (SUMP)	21S	MAG 206-1	1-4'	1001.83	1001.33	1001.16	59.58' RT	1000.73	N/A	1000.67	1237+23.75, 61.12' RT	999.27	1237+56.06, 112.38' RT	998.30	63	998.30	N/A	N/A
304+07.36	91ST (SUMP)	1W	MAG 206-1	1-4'	998.41	997.91	997.74	65.52' LT	997.73***	N/A	N/A	304+07.36, 65.96' LT	997.73	304+07.41, 88.03' LT	997.00	20	997.00	996.07****	1.44
308+57.86	91ST (SUMP)	2W	MAG 206-1	1-4'	999.53	999.03	998.86	55.75' LT	998.56***	N/A	N/A	308+57.89, 67.35' LT	998.50	308+57.92, 91.61' LT	996.00	36	996.00	997.14****	1.02
311+81.82	91ST (SUMP)	3W	MAG 206-1	1-4'	999.13	998.63	998.46	55.20' LT	998.65*****	N/A	N/A	311+81.86, 69.54' LT	998.63	311+81.90, 95.26' LT	996.00	40	996.00	997.29****	1.00
315+52.77	91ST (SUMP)	4W	MAG 206-1	1-4'	999.22	998.72	998.55	66.70' LT	999.26***	N/A	N/A	315+52.51, 75.99' LT	999.20	315+52.11, 101.69' LT	996.00	35	996.00	997.47****	1.40
321+04.21	91ST (SUMP)	5W	DETAIL DB	3-2'-6"	1001.41	1000.91	1000.74	54.58' LT	1000.51***	N/A	N/A	321+04.21, 66.35' LT	1000.45	321+04.21, 112.00' LT	997.00	58	997.00	998.81****	1.30
322+01.00	91ST (SUMP)	1E	DETAIL DB	2-2'-6"	1001.07	1000.57	1000.40	68.58' RT	1000.17	322+01.00, 100.90' RT	1000.00	N/A	N/A	N/A	N/A	32	N/A	N/A	N/A
327+80.00	91ST (ON-GRADE)	6W	MAG 206-1	1-4'	1004.01	1003.51	1003.34	42.20' LT	1003.31***	N/A	N/A	327+80.12, 66.93' LT	1003.26	327+80.65, 68.15' LT	996.76	26	996.76	1001.24****	1.68

* Contractor to verify basin bottom elevation
** Spillway per Detail DA
*** 0.5% Scupper Slope
**** Contractor to verify top of SRPI pipe prior to construction
***** 0.15% Scupper Slope



DETAIL DA

SCUPPER/SPILLWAY PROFILE
NTS

◇ SEE CORRESPONDING COLUMNS IN TABLE, THIS SHEET.

SECTION A-A

SECTION B-B

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT Date Signed Oct 7, 22 ARIZONA, USA

Kimley»Horn

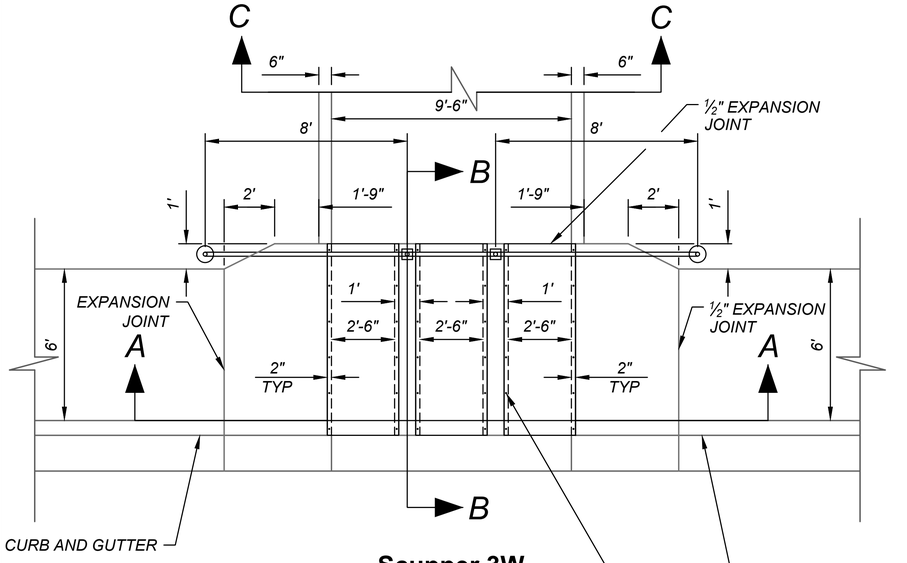
DRAINAGE DETAILS

SHEET D01 0F D15

TRACS NO. _____

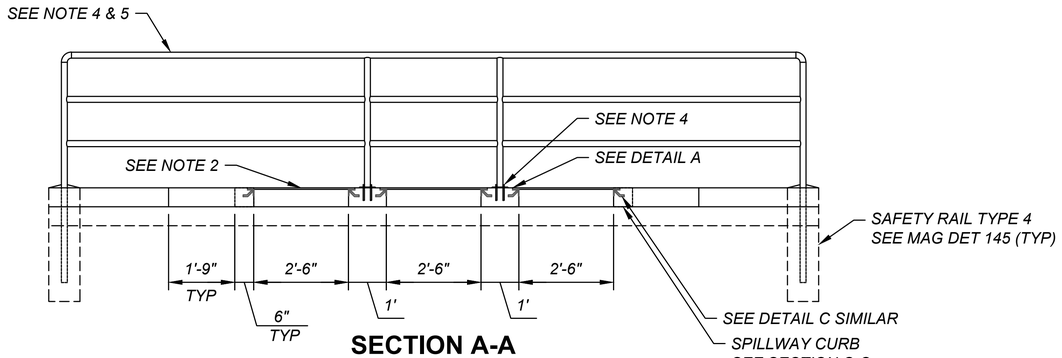
6/15/2022 9:04:17pm K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Drainage\AZE1019_DRD01.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	77	132	



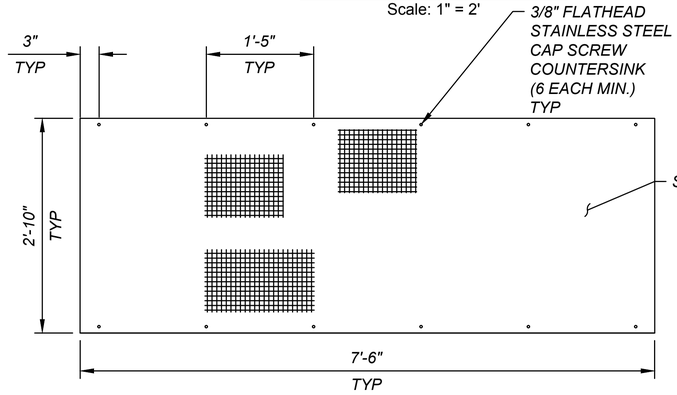
Scupper 3W
3-2'-6" Curb Openings
321+04.21, 47' Lt

Scale: 1" = 3'



SECTION A-A
3-2'-6" Curb Openings
321+04.21, 47' Lt

Scale: 1" = 2'

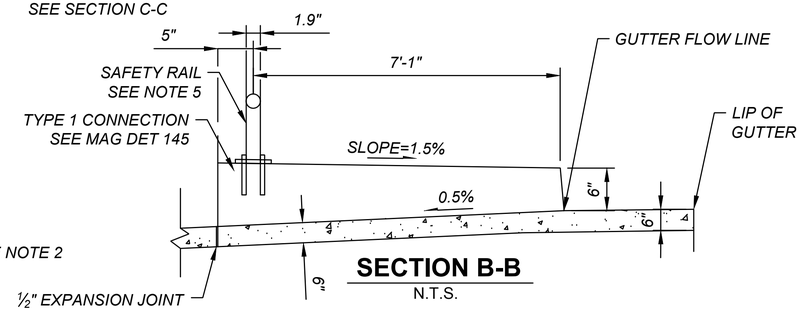


1/2" STEEL DIAMOND PLATE A-36

Scale: 1" = 1'

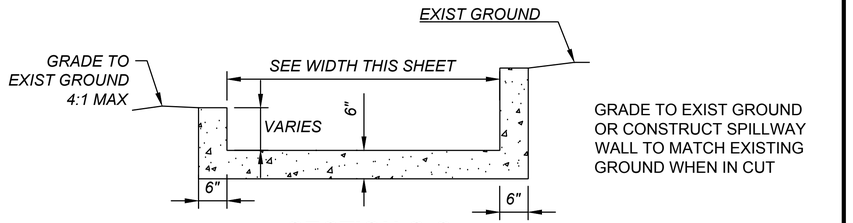
NOTES:

1. (——►) INDICATES DIRECTION OF FLOW.
2. ½" STEEL DIAMOND PLATE A-36 SHALL BE GALVANIZED IN ACCORDANCE WITH MAG SECTION 771.
3. CONCRETE SHALL BE CLASS A PER MAG SECT. 725 AND INSTALLED PER MAG SECT. 505.
4. SAFETY RAIL SHALL BE INSTALLED PER MAG STD DET 145 USING TYPE 1 ANCHOR CONNECTION UNLESS NOTED OTHERWISE.
5. SAFETY RAIL AND ALL EXPOSED METAL SURFACES ON ALL SCUPPERS AND HEADWALLS THROUGHOUT THE PROJECT LIMITS INCLUDING STANDARD DETAILS SHALL BE PAINTED PRESCOTT TAN WITH THE EXCEPTION OF DIAMOND PLATES.



SECTION B-B

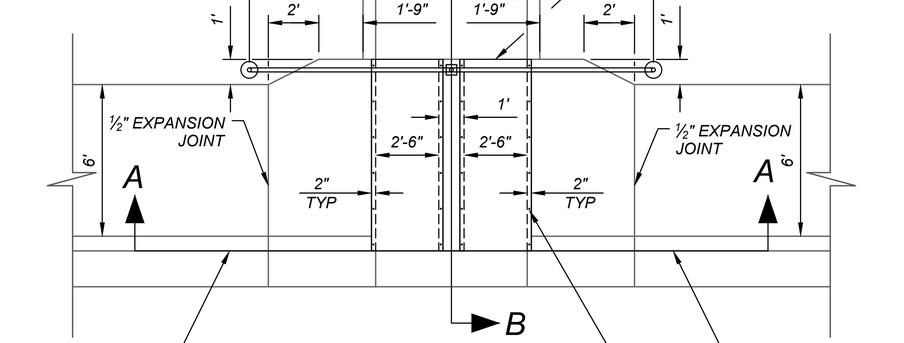
N.T.S.



GRADE TO EXIST GROUND OR CONSTRUCT SPILLWAY WALL TO MATCH EXISTING GROUND WHEN IN CUT

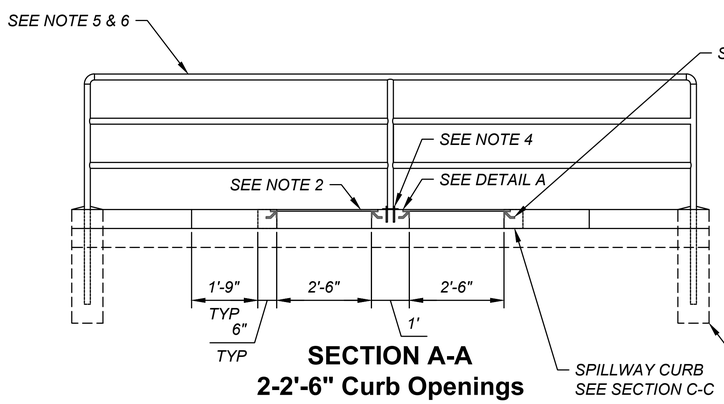
SECTION C-C

N.T.S.



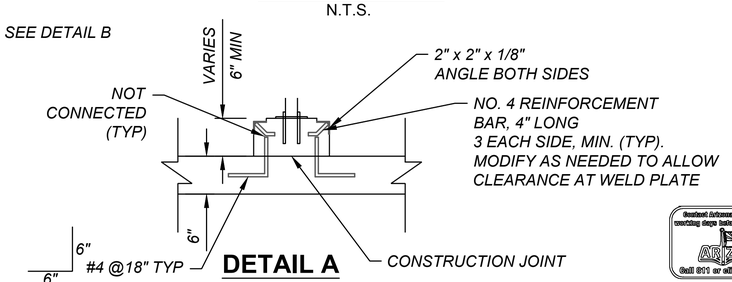
Scuppers 20N & 1E
2-2'-6" Curb Openings
1238+25.00, 52' Lt
322+01.00, 47' Lt

Scale: 1" = 3'



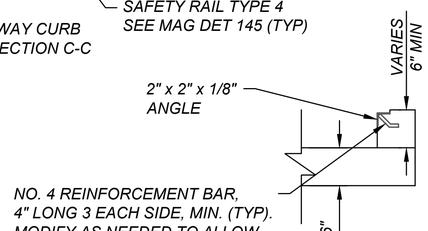
SECTION A-A
2-2'-6" Curb Openings
1238+25.00, 53' Lt
322+01.00, 47' Lt

Scale: 1" = 2'



DETAIL A

N.T.S.



DETAIL B

N.T.S.

DETAIL DB

CUSTOM MAG STANDARD DETAIL 203

N.T.S.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
1			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT ARIZONA, USA Date Signed 06-17-22

Kimley»Horn

DRAINAGE DETAILS

SHEET D02 OF D25

TRACS NO. _____

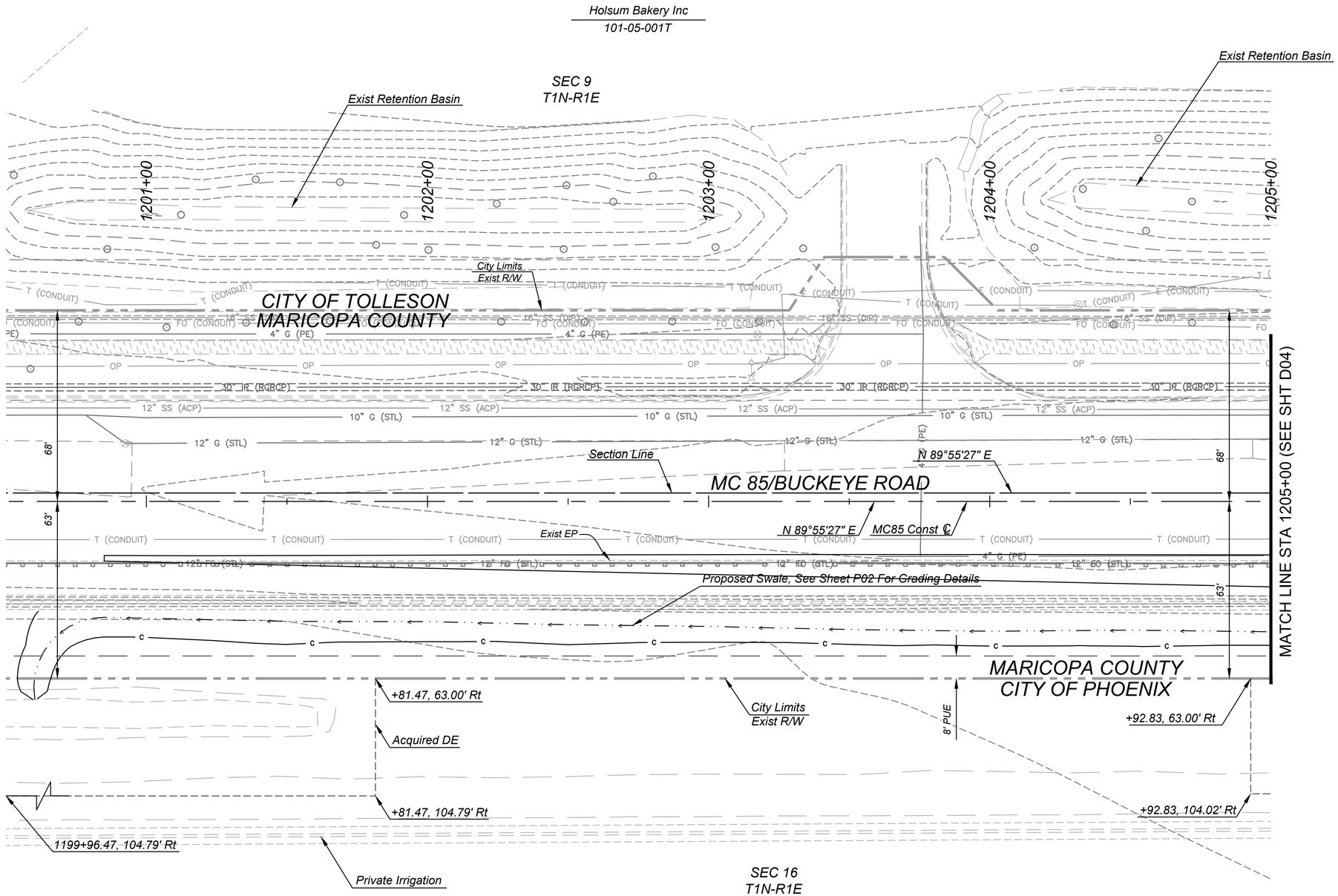
6/16/2022 3:53:15pm K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Drainage\AZE1019_DRD04.dwg

NOTES
1. Refer to Sheet P02 for Roadway Plan.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	78	132	

☐ REMOVAL/RELOCATE BY OTHERS ☐

⬡ CONSTRUCTION ⬡



SCALE: Hor: 1"=20'

20 0 20 40

SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or click ArizonaBlue Stake, Inc.

NO.	REVISION	BY	DATE
1			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT Date Signed 06/17/22 ARIZONA, USA

Kimley»Horn

DRAINAGE PLANS
Sta 1200+50 to Sta 1205+00

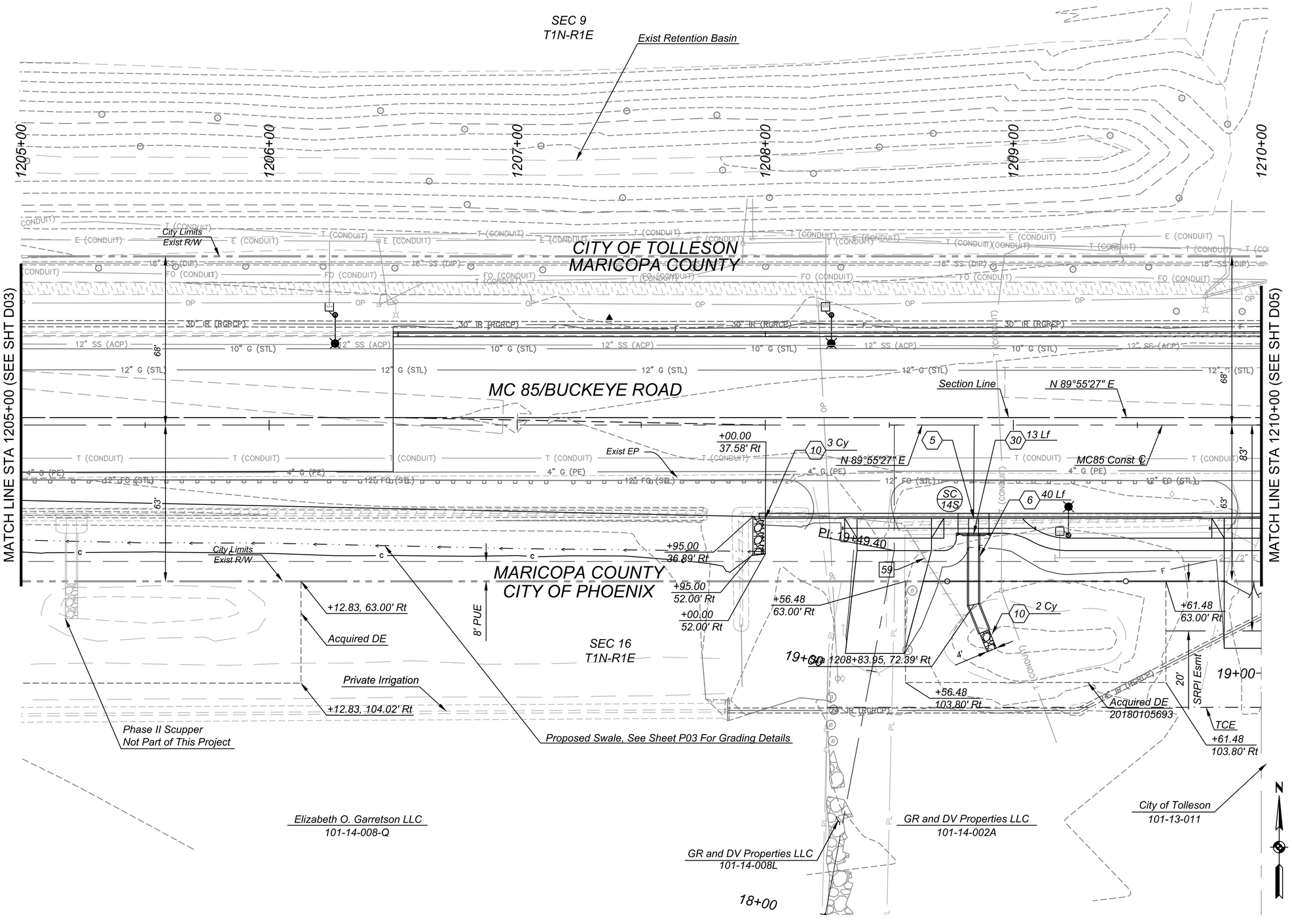
SHEET D03 OF D15

TRACS NO. _____

6/17/2022 10:11:53am K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Drainage\AZE1019_DPP44.dwg

NOTES
1. Refer to Sheet P03 for Roadway Plan.
2. Refer to Sheet P04 for Roadway Profile.
3. Refer to Sheet D01 for Scupper Design Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	79	132	



☐ REMOVAL/RELOCATE BY OTHERS ☐

59	Remove Pipe, 18", Backfill & Compact Sta 1208+56, 40' Rt to Sta 1208+81, 81' Lt	49 Lf

⬡ CONSTRUCTION ⬡

5	Scupper, MAG Det 206, 1-4' Curb Opening Sta 1208+83.95, 37.00' Rt	1 Ea
6	Scupper Spillway, MAG Det 206, 1-4' Curb Opening	40 Lf
10	Dumped Riprap, D50=6" See Detail DA Section A-A, Sheet 76	5 Cy
30	Safety Rail, Height 3 ft - 6 in MAG Det 145	13 Lf

SCALE: Hor: 1"=20'
20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
3			
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1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
50959
ZACHARY
SCHMIDT
Date Signed 06/17/22
ARIZONA, USA

Kimley»Horn

DRAINAGE PLANS
Sta 1205+00 to Sta 1210+00

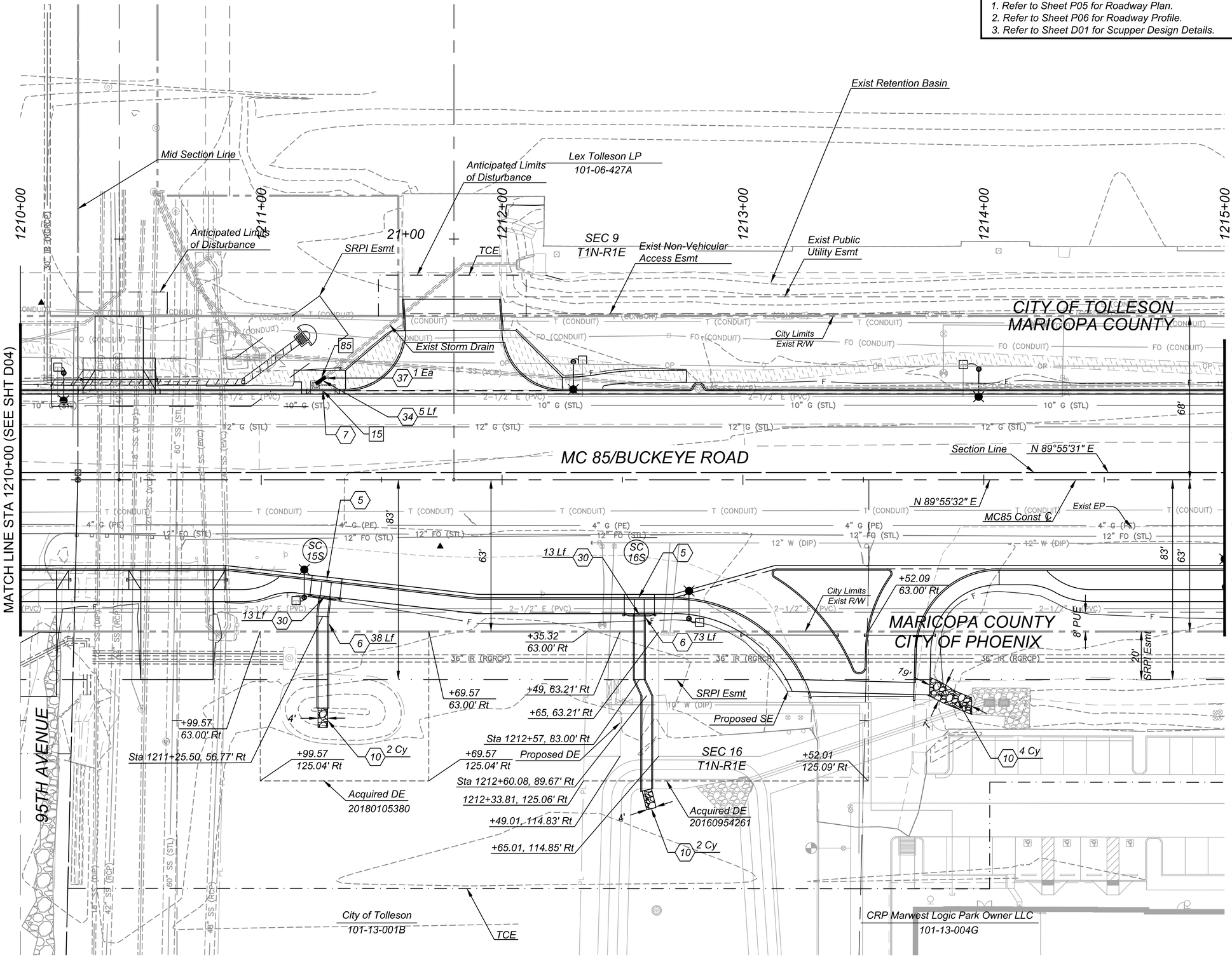
SHEET
D04 OF D15

TRACS NO. _____

6/15/2022 9:13:07pm K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Drainage\AZE1019_DPP45.dwg

NOTES
1. Refer to Sheet P05 for Roadway Plan.
2. Refer to Sheet P06 for Roadway Profile.
3. Refer to Sheet D01 for Scupper Design Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	80	132	



☐ REMOVAL/RELOCATE BY OTHERS ☐

15	Remove Catch Basin Sta 1211+22.64, 37.00' Lt	1 Ea
85	Remove Pipe, 15", Backfill & Compact	5 Lf

⬡ CONSTRUCTION ⬡

5	Scupper, MAG Det 206, 1-4' Curb Opening Sta 1211+27.21, 41.82' Rt Sta 1212+57.00, 49.00' Rt	2 Ea
6	Scupper Spillway, MAG Det 206, 1-4' Curb Opening	111 Lf
7	Catch Basin Per COP Std Det P1569-2, M-1, L=6', V=3.78' Sta 1211+22.64, 37.00' Lt	1 Ea
10	Dumped Riprap, D50=6" See Detail DA Section A-A, Sheet 76	8 Cy
30	Safety Rail, Height 3 ft - 6 in MAG Det 145	26 Lf
34	15" Storm Drain, RGRCP, Class V	5 Lf
37	Concrete Pipe Collar for 15" Pipe Per MAG Std Det 505 Sta 1211+26.75, 42.76' Lt	1 Ea

SCALE: Hor: 1"=20'

20 0 20 40

SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
3			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
50959
ZACHARY
SCHMIDT
Date Signed 06/15/22
ARIZONA, USA

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Kimley»Horn

DRAINAGE PLANS
Sta 1210+00 to Sta 1215+00

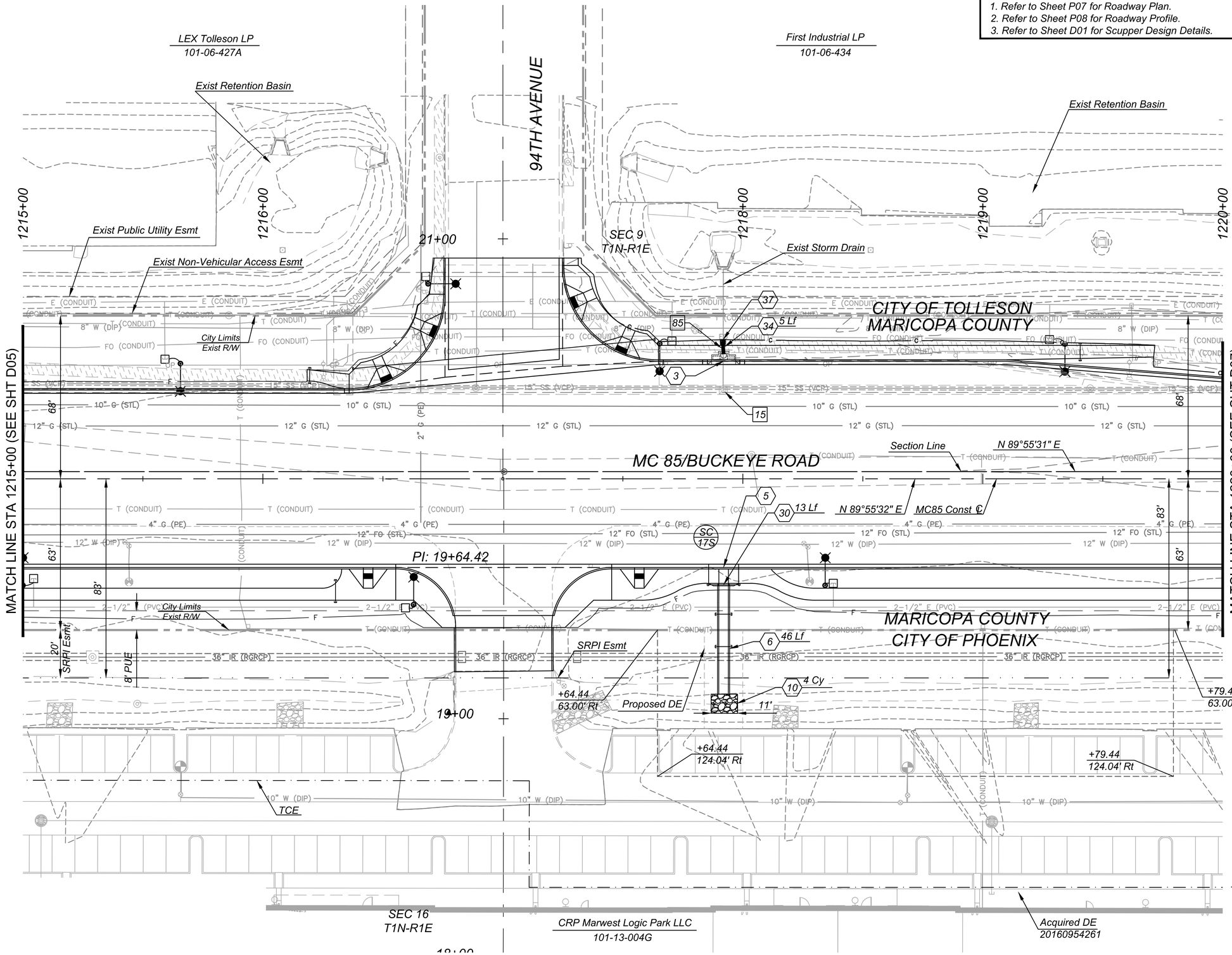
SHEET D05 OF D15

TRACS NO. _____

6/15/2022 9:17:10pm K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Drainage\AZE1019_DPP46.dwg

NOTES

1. Refer to Sheet P07 for Roadway Plan.
2. Refer to Sheet P08 for Roadway Profile.
3. Refer to Sheet D01 for Scupper Design Details.



REMOVAL/RELOCATE BY OTHERS

15	Remove Catch Basin Sta 1217+91.81, 37.00' Lt	1 Ea
85	Remove Pipe, 15", Backfill & Compact	20 Lf

CONSTRUCTION

3	Catch Basin Per COP Std Det P1569-1, M-2, L_1=L_2=3', V=3.98' Sta 1217+92.00, 49.00' Lt	1 Ea
5	Scupper, MAG Det 206, 1-4' Curb Opening Sta 1217+92.00, 37.00' Rt	1 Ea
6	Scupper Spillway, MAG Det 206, 1-4' Curb Opening	46 Lf
10	Dumped Riprap, D50=6" See Detail DA Section A-A, Sheet 76	4 Cy
30	Safety Rail, Height 3 ft - 6 in MAG Det 145	13 Lf
34	15" Storm Drain, RGRCP, Class V	5 Lf
37	Concrete Pipe Collar for 15" Pipe Per MAG Std Det 505 Sta 1217+91.64, 56.96' Lt	1 Ea

SCALE: Hor: 1"=20'

20 0 20 40

SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT Date Signed 06/17/22 ARIZONA, USA

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Kimley»Horn

DRAINAGE PLANS
Sta 1215+00 to Sta 1220+00

SHEET D06 OF D15

TRACS NO. _____

6/15/2022 9:21:30pm K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Drainage\AZE1019_DPP47.dwg

6/15/2022

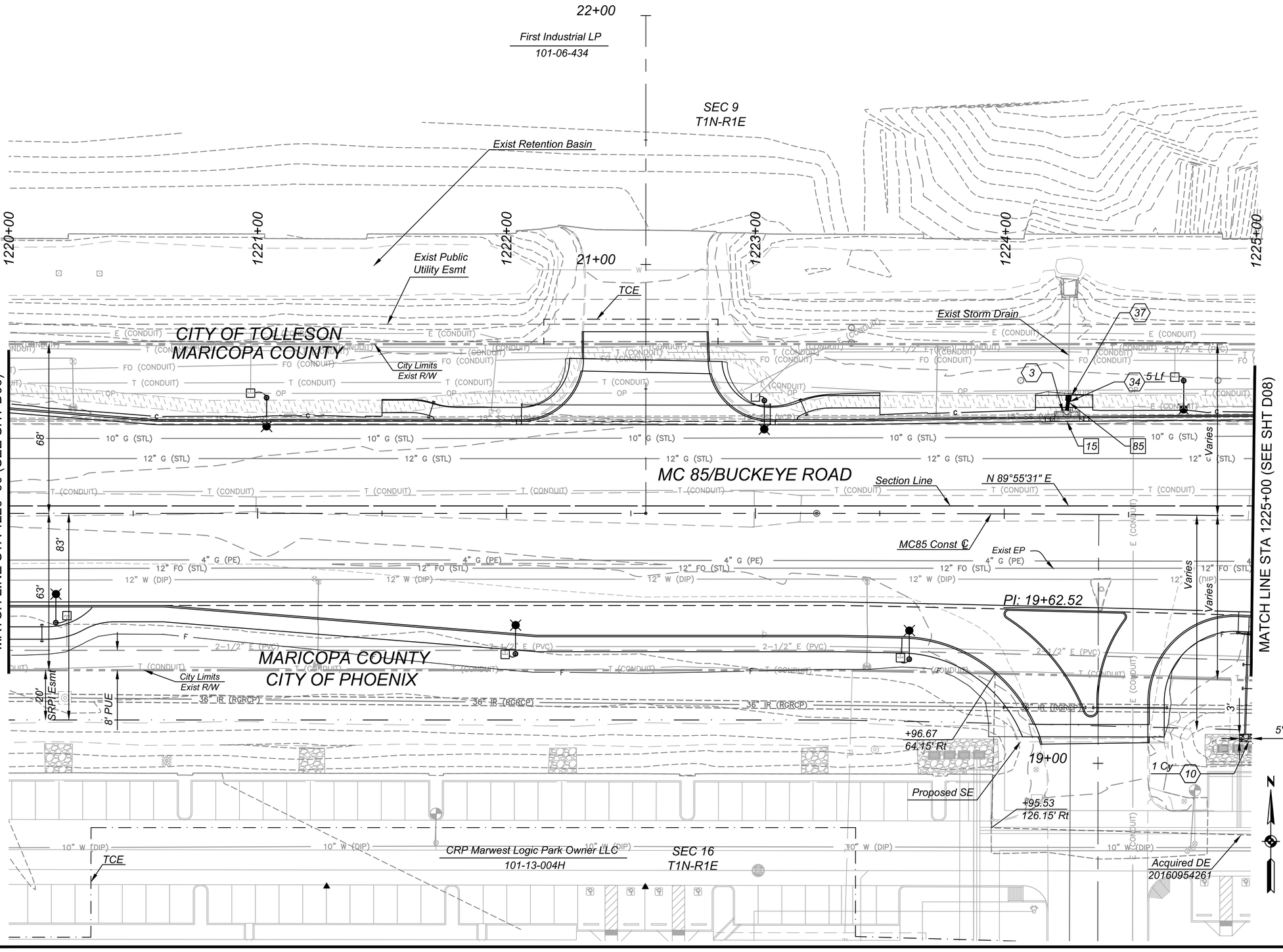
9:25:41pm

K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Drainage\AZE1019_DPP48.dwg

NOTES

1. Refer to Sheet P09 for Roadway Plan.
2. Refer to Sheet ### for Roadway Profile.
3. Refer to Sheet D01 for Scupper Design Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	82	132	



☐ REMOVAL/RELOCATE BY OTHERS ☐

15	Remove Catch Basin Sta 1224+25.00, 38.66' Lt	1 Ea
85	Remove Pipe, 15", Backfill & Compact	5 Lf

⬡ CONSTRUCTION ⬡

3	Catch Basin Per COP Std Det P1569-2, M-2, L_1=L_2=3', V=2.12' Sta 1224+25.00, 38.66' Lt	1 Ea
10	Dumped Riprap, D50=6" See Detail DA Section A-A, Sheet 76	1 Cy
34	15" Storm Drain, RGRCP, Class V	5 Lf
37	Concrete Pipe Collar for 15" Pipe Per MAG Std Det 505 Sta 1224+25.54, 46.59' Lt	1 Ea

SCALE: Hor: 1"=20'

20 0 20 40

SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT Date Signed 06/15/22 ARIZONA, USA

Kimley»Horn

DRAINAGE PLANS
Sta 1220+00 to Sta 1225+00

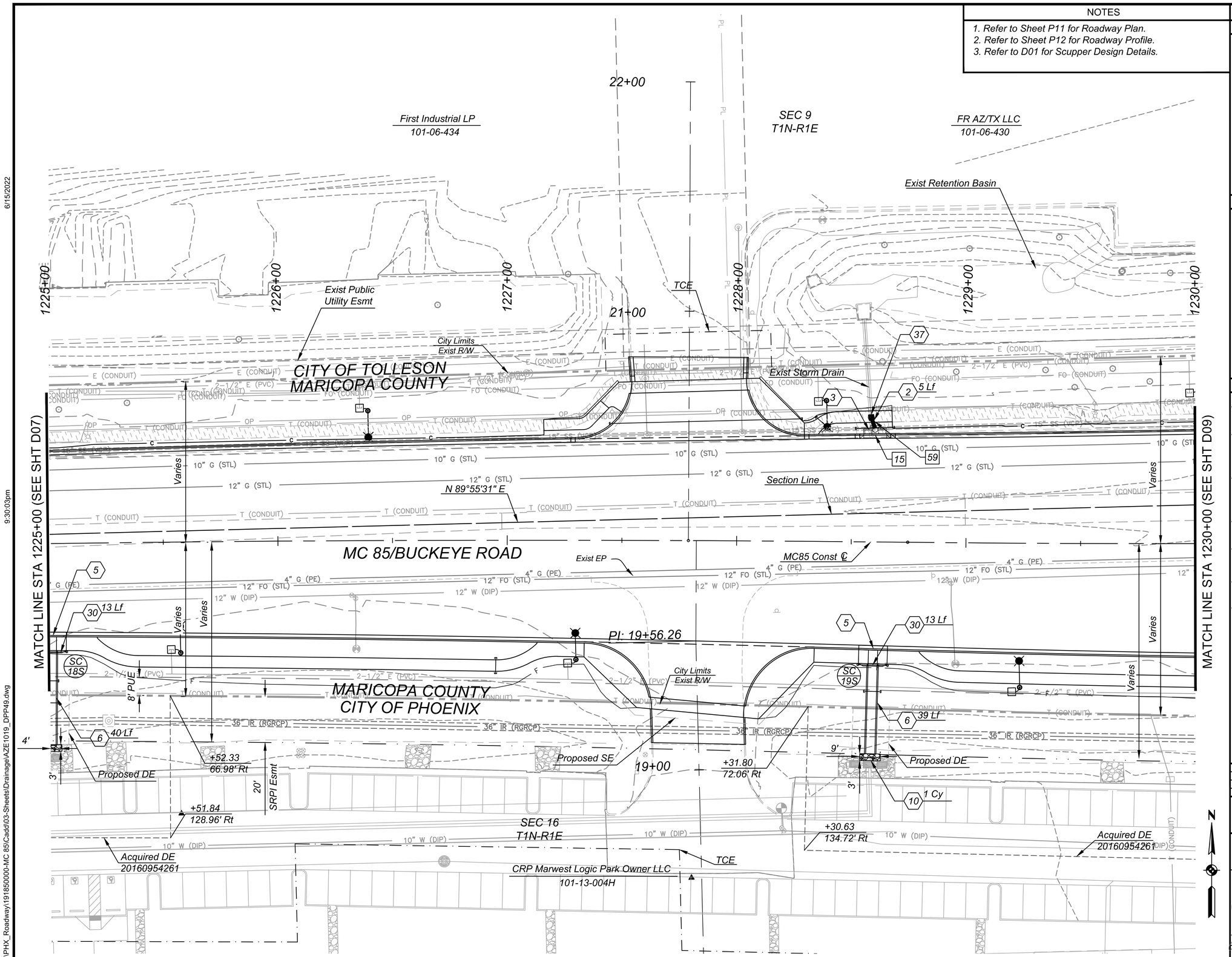
SHEET D07 OF D15

TRACS NO. _____

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	83	132	

NOTES

1. Refer to Sheet P11 for Roadway Plan.
2. Refer to Sheet P12 for Roadway Profile.
3. Refer to D01 for Scupper Design Details.



☐ REMOVAL/RELOCATE BY OTHERS ☐

15	Remove Catch Basin Sta 1228+60.00, 46.57' Lt	1 Ea
59	Remove Pipe, 18", Backfill & Compact	5 Lf

⬡ CONSTRUCTION ⬡

2	18" Storm Drain, RGRCP, Class V	5 Lf
3	Catch Basin Per COP Std Det P1569-1, M-2, L_1=L_2=3', V=2.53' Sta 1228+60.00, 46.57' Lt	1 Ea
5	Scupper, MAG Det 206, 1-4' Curb Opening Sta 1225+00.50, 40.03' Rt Sta 1228+60.00, 46.57' Rt	2 Ea
6	Scupper Spillway, MAG Det 206, 1-4' Curb Opening	79 Lf
10	Dumped Riprap, D50=6" See Detail DA Section A-A, Sheet 76	1 Cy
30	Safety Rail, Height 3 ft - 6 in MAG Det 145	26 Lf
37	Concrete Pipe Collar for 18" Pipe Per MAG Std Det 505 Sta 1228+58.18, 54.24' Lt	1 Ea

SCALE: Hor: 1"=20'

20 0 20 40

SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT Date Signed Oct 7, 22 ARIZONA, USA

Kimley»Horn

DRAINAGE PLANS
Sta 1225+00 to Sta 1230+00

SHEET D08 OF D15

TRACS NO. _____

6/15/2022

9:30:03pm

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Drainage\AZE1019_DPP49.dwg

6/15/2022

9:34:24pm

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Drainage\AZE1019_DPP50.dwg

NOTES

1. Refer to Sheet P13 for Roadway Plan.
2. Refer to Sheet P14 for Roadway Profile.
3. Refer to Sheet D01 for Scupper Design Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	84	132	

MATCH LINE STA 1230+00 (SEE SHT D08)

MATCH LINE STA 1235+00 (SEE SHT D10)

22+00

21+00

1230+00

1231+00

1232+00

1233+00

1234+00

1235+00

SEC 9
T1N-R1E

FR AZ/TX LLC
101-06-430

Exist Drywell

Exist Retention Basin

Exist Retention Basin

First Enterprise Properties LLC
101-06-001N

TCE

TCE

Exist Public Utility Esmt

CITY OF TOLLESON
MARICOPA COUNTY

City Limits
Exist R/W

MC 85/BUCKEYE ROAD

Section Line

N 89°55'31" E

MC85 Const ℄

Exist EP

MARICOPA COUNTY
CITY OF PHOENIX

City Limits
Exist R/W

SEC 16
T1N-R1E

CRP Marwest Logic Park Owner LLC
101-13-004H

Acquired DE
20160954261

TCE

Acquired DE
20160954261

Proposed DE

8' PUE

20' SRPI Esmt

+30.80
75.68' Rt

+28.84
138.43' Rt

+14.85
78.00' Rt

+14.85
78.00' Rt

+15.03
142.08' Rt

+88.50
143.13' Rt

+89.46
78.00' Rt

4'

11'

Varies

13 Lf 30 SC 19N 5

13 Lf 30 SC 20S 5

37 Lf 6

50 Lf 6

2 Cy 10

4 Cy 10

13 14

REMOVAL/RELOCATE BY OTHERS

13	Remove Conc Spillway	175 Sf
14	Remove Conc Scupper Sta 1233+51.70, 52.00' Lt	1 Ea

CONSTRUCTION

5	Scupper, MAG Det 206, 1-4' Curb Opening Sta 1233+50.00, 52.00' Lt Sta 1233+50.00, 52.00' Rt	2 Ea
6	Scupper Spillway, MAG Det 206, 1-4' Curb Opening	87 Lf
10	Dumped Riprap, D50=6" See Detail DA Section A-A, Sheet 76	6 Cy
30	Safety Rail, Height 3 ft - 6 in MAG Det 145	26 Lf

SCALE: Hor: 1"=20'

20 0 20 40

SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO. 50959
ZACHARY SCHMIDT
Date Signed 06/15/22
ARIZONA, USA

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Kimley»Horn

DRAINAGE PLANS
Sta 1230+00 to Sta 1235+00

SHEET D09 OF D15

TRACS NO. _____

MATCH LINE STA 323+50 (SEE SHT D14)

MATCH LINE STA 318+50 (SEE SHT D13)

MATCH LINE STA 1235+00 (SEE SHT D09)

91ST AVE

MC 85/BUCKEYE ROAD

322+00

321+00

320+00

319+00

1236+00

1237+00

1238+00

1239+00

Sun Land Beef Co
101-12-632A

TCE

Acquired DE
20180150193

13 Lf 23
16 Lf 30
SC 1E
19
9 Lf 30 91 4
84 62 Lf
10 3 Cy
90
85
9 Lf 30 46 4
4 46 30 9 Lf

Exist PUE

Exist R/W

First Enterprise Properties LLC
101-06-001N

TCE

See Sheet D14

SEC 09
T1N-R1E

Exist SRP Well Site
Fence to Remain

Salt River Project
101-11-002-J

SEC 10
T1N-R1E

Exist Public Utility Esmt

City Limits
Exist R/W

CITY OF TOLLESON
MARICOPA COUNTY

Exist C&G

Varies

91st Ave Const ℄

N 84°24'53" E

Section Line

MC 85 Const ℄
Sta 1236+36.77
91st Ave Const ℄
Sta 319+88.23

MC85 Const ℄

78'

87
5
30 13 Lf

SC 21S

1237+23.75, 61.12' Rt

1237+48.91, 92.82' Rt

SEC 15
T1N-R1E

63 Lf 6

87
10 1 Cy

4'

MARICOPA COUNTY
CITY OF PHOENIX

+07.88
78.00' Rt

8' PUE

MP Phoenix 91 LLC
101-12-649D

Acquired DE

CRP Marwest Logic Park Owner LLC
101-13-004H

Exist R/W

SEC 16
T1N-R1E

Begin Spillway
Sta 322+01.00, 68.58' Rt
1000.17

End Spillway
Sta 322+01.00, 81.90' Rt
1000.10

Begin Grate
Sta 322+01.00, 85.40' Rt
1000.08

End Grate
Sta 322+01.00, 89.40' Rt
1000.08

Irrigation Culvert
Sta 322+01.00, 120.87' Rt
1000.33

L=62.00' @ -0.5161%

1000
996

Exist Comm
Top=990±

Exist Power
Top=996±

End 18" CMP
Sta 322+01.00, 151.40' Rt
998.00

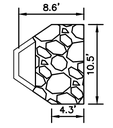
Begin 18" CMP
Sta 322+01.00, 89.40' Rt
998.32

SCALE: Hor: 1"=20'
Vert: 1"=2'

NOTES

1. Refer to Sheet P15 for Roadway Plan.
2. Refer to Sheet P16 for Roadway Profile.
3. Refer to Sheet D01 and D02 for Scupper Design and Drainage Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	85	132	



Headwall Riprap Detail
N.T.S

☐ REMOVAL/RELOCATE BY OTHERS ☐

87 Remove Riprap — 14 Cy
Salvage Existing Riprap if it Meets the Requirements on D01

⬡ CONSTRUCTION ⬡

4	Headwall Per MAG Std Det 501 Sta 322+01.00, 152.07' Rt Sta 322+07.86, 120.12' Rt Sta 321+93.94, 121.64' Rt	3 Ea
5	Scupper, MAG Det 206, 1-4' Curb Opening Sta 1237+23.76, 52.00' Rt	1 Ea
6	Scupper Spillway, MAG Det 206, 1-4' Curb Opening	63 Lf
10	Dumped Riprap, D50=6" See Detail DA Section A-A, Sheet 76 See Detail this sheet for headwall riprap	4 Cy
19	Scupper See Detail DB, 2-2'-6" Curb Opening Sta 322+01.00, 61.00' Rt	1 Ea
23	Concrete Spillway Per Detail DA Section B-B 2-2'-6" Curb Openings	13 Lf
30	Safety Rail, Height 3 ft - 6 in MAG Det 145	56 Lf
46	Storm Drain Access Barrier Per COP Det 1563 Sta 322+01.00, 152.07' Rt Sta 321+93.94, 121.64' Rt	2 Ea
85	18" Storm Drain, RGRCP, Class V See profile this sheet	62 Lf
84	24" CMP See profile on sheet D14	14 Lf
90	Catch Basin, Flush Per ADOT Det C-15.80 See profile this sheet	1 Ea
91	Trash Rack Per MAG Det 502-1	1 Ea

SCALE: Hor: 1"=20'
20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT Date Signed 06/17/22 ARIZONA, USA

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Kimley»Horn

DRAINAGE PLANS
Sta 1235+00 to Sta 1239+50

SHEET D10 OF D15

TRACS NO. _____

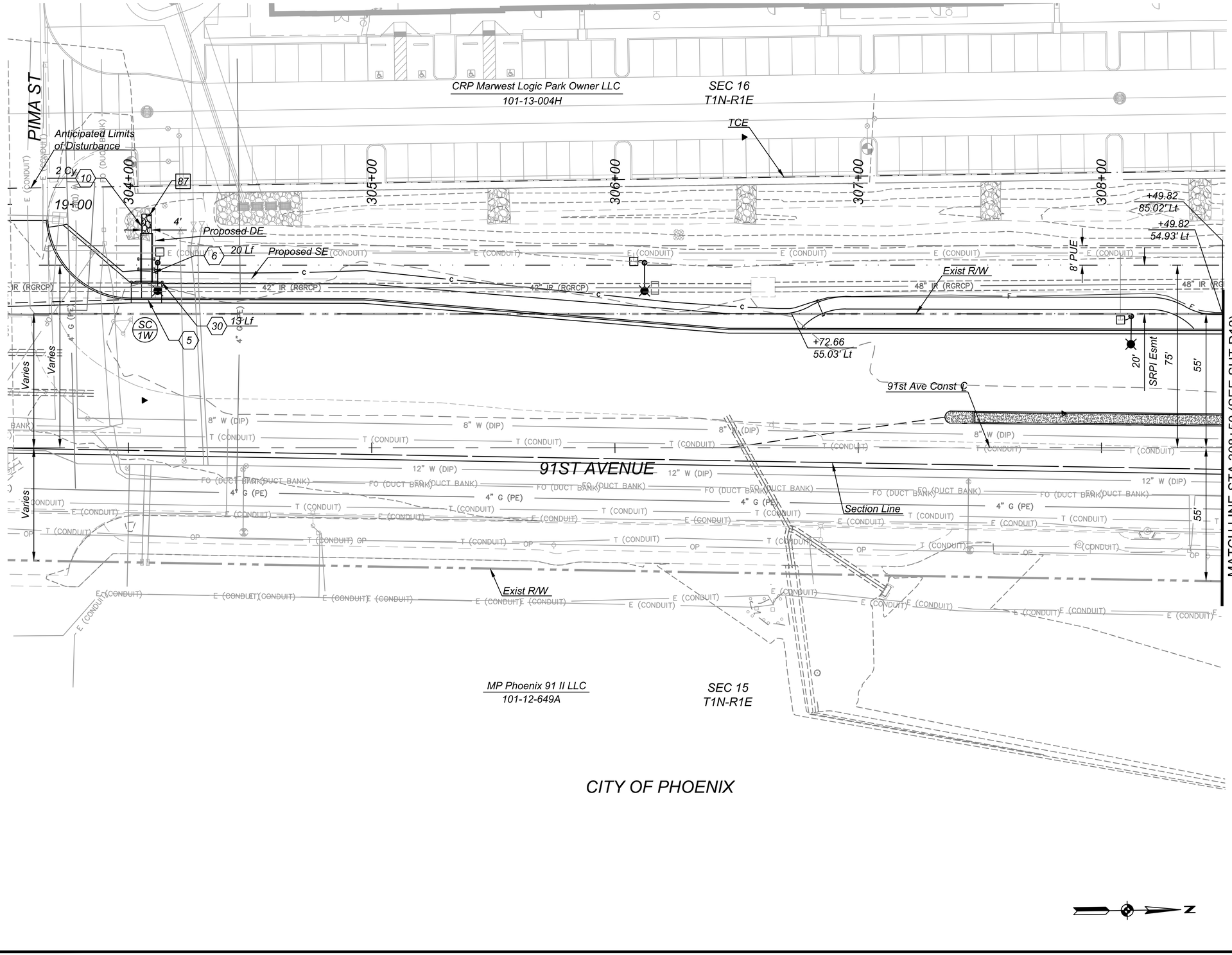
6/15/2022 9:39:09pm K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Drainage\AZE1019_SD01.dwg

6/15/2022

9:43:18pm

K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Drainage\AZE1019_DPP601.dwg

CITY OF PHOENIX



CITY OF PHOENIX

NOTES

1. Refer to Sheet P25 for Roadway Plan.
2. Refer to Sheet P26 for Roadway Profile.
3. Refer to Sheet D01 for Scupper Design Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	86	132	

☐ REMOVAL/RELOCATE BY OTHERS ☐

87	Remove Riprap Salvage Existing Riprap if it Meets the Requirements on D01	3 Cy

⬡ CONSTRUCTION ⬡

5	Scupper, MAG Det 206, 1-4' Curb Opening Sta 304+07.36, 60.92' Lt (91st Ave)	1 Ea
6	Scupper Spillway, MAG Det 206, 1-4' Curb Opening	20 Lf
10	Dumped Riprap, D50=6" See Detail DA Section A-A, Sheet 76	2 Cy
30	Safety Rail, Height 3 ft - 6 in MAG Det 145	13 Lf

SCALE: Hor: 1"=20'

20 0 20 40

SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT 22 06 17 Date Signed ARIZONA, U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Kimley»Horn

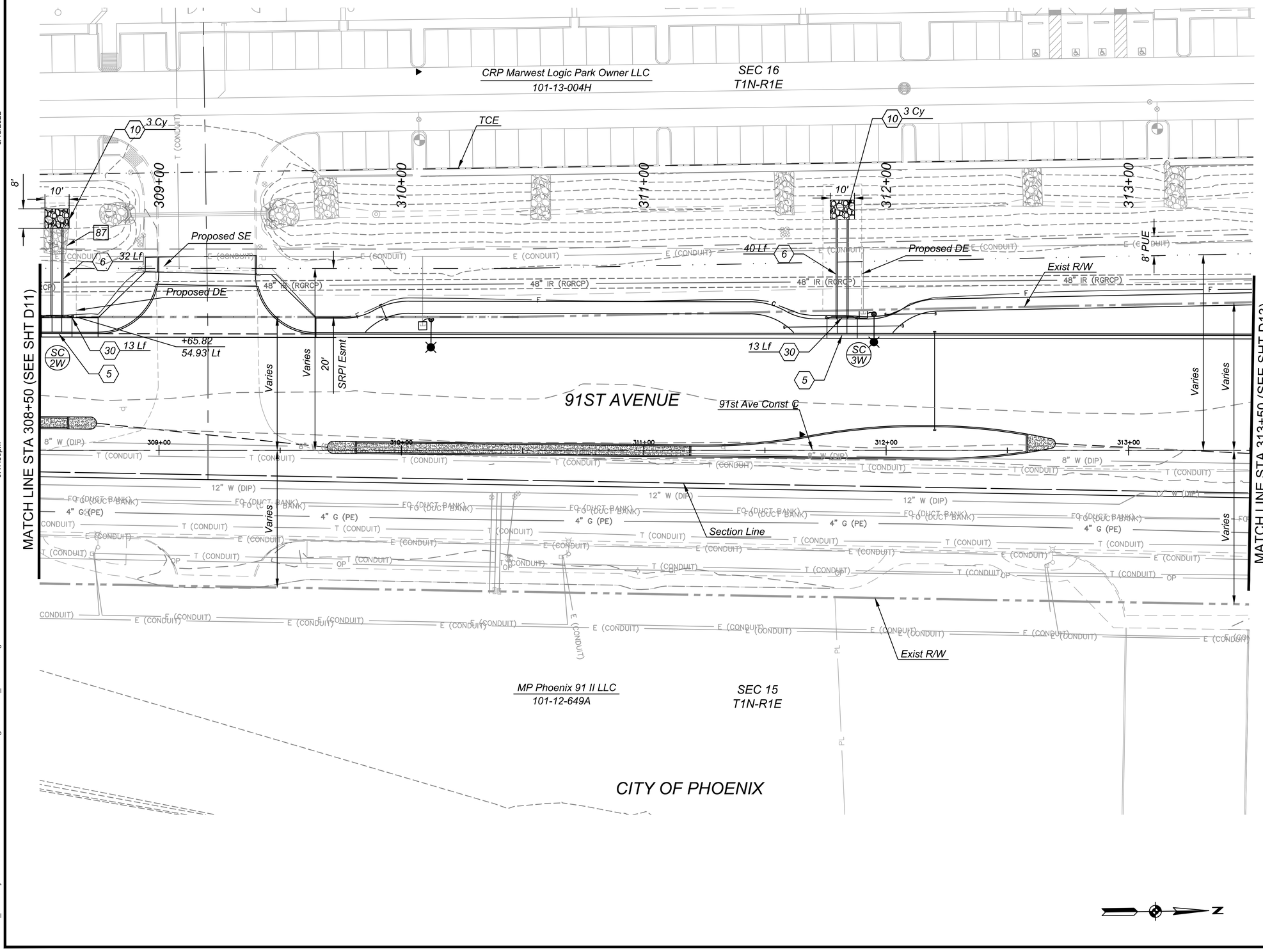
DRAINAGE PLANS
Sta 303+50 to Sta 308+50

SHEET D11 OF D15

TRACS NO. _____

NOTES
1. Refer to Sheet P27 for Roadway Plan.
2. Refer to Sheet P28 for Roadway Profile.
3. Refer to Sheet D01 for Scupper Design Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	87	132	



☐ REMOVAL/RELOCATE BY OTHERS ☐

87	Remove Riprap Salvage Existing Riprap if it Meets the Requirements on D01	5 Cy

⬡ CONSTRUCTION ⬡

5	Scupper, MAG Det 206, 1-4' Curb Opening Sta 308+57.86, 48.16' Lt (91st Ave) Sta 311+81.82, 47.61' Lt (91st Ave)	2 Ea
6	Scupper Spillway, MAG Det 206, 1-4' Curb Opening	72 Lf
10	Dumped Riprap, D50=6" See Detail DA Section A-A, Sheet 76	6 Cy
30	Safety Rail, Height 3 ft - 6 in MAG Det 145	26 Lf

SCALE: Hor: 1"=20'

20 0 20 40

SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
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NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
50959
ZACHARY
SCHMIDT
Date Signed 06/17/22
ARIZONA, USA

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Kimley»Horn

DRAINAGE PLANS
Sta 308+50 to Sta 313+50

SHEET D12 OF D15

TRACS NO. _____

6/15/2022 9:47:30pm K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Drainage\AZE1019_DPP602.dwg

6/15/2022

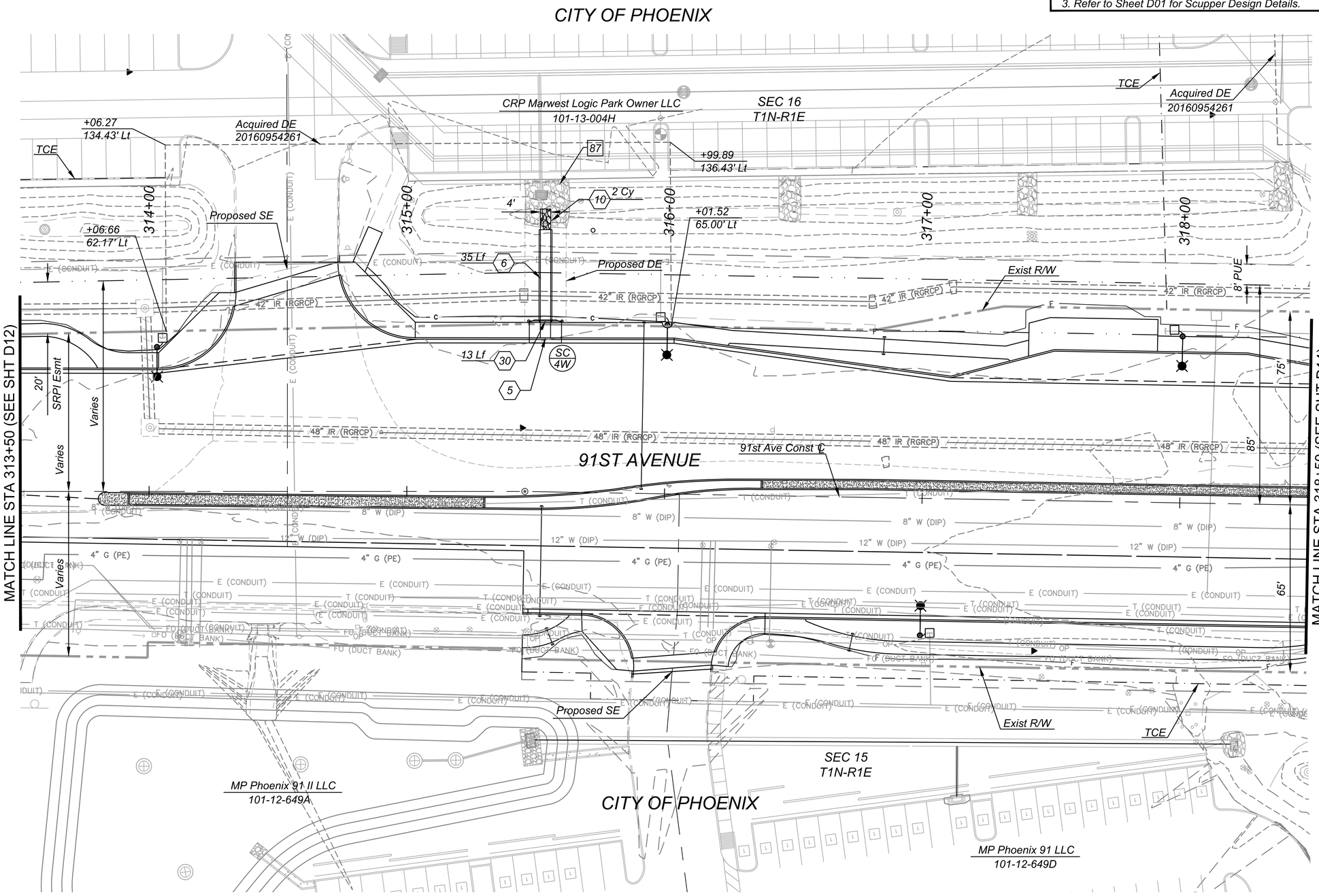
9:51:23pm

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Drainage\AZE1019_DPP603.dwg

NOTES

1. Refer to Sheet P29 for Roadway Plan.
2. Refer to Sheet P30 for Roadway Profile.
3. Refer to Sheet D01 for Scupper Design Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	88	132	



☐ REMOVAL/RELOCATE BY OTHERS ☐

87	Remove Riprap Salvage Existing Riprap it it Meets the Requirements on D01	11 Cy

⬡ CONSTRUCTION ⬡

5	Scupper, MAG Det 206, 1-4' Curb Opening Sta 315+52.77, 59.12' Lt (91st Ave)	1 Ea
6	Scupper Spillway, MAG Det 206, 1-4' Curb Opening	35 Lf
10	Dumped Riprap, D50=6" See Detail DA Section A-A, Sheet 76	2 Cy
30	Safety Rail, Height 3 ft - 6 in MAG Det 145	13 Lf

SCALE: Hor: 1"=20'

20 0 20 40

SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT Date Signed Oct 7, 22 ARIZONA, USA

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Kimley»Horn

DRAINAGE PLANS
Sta 313+50 to Sta 318+50

SHEET D13 OF D15

TRACS NO. _____

NOTES
1. Refer to Sheet P31 for Roadway Plan.
2. Refer to Sheet P32 for Roadway Profile.
3. Refer to D01 & D02 Scupper Design and Drainage Details

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	89	132	

MATCH LINE STA 1234+50 (SEE SHT D09)

MATCH LINE STA 318+50 (SEE SHT D13)

MATCH LINE STA 323+50 (SEE SHT D15)

MC 85/BUCKEYE ROAD

CITY OF TOLLESON

91ST AVENUE

91st Ave Const ℄

1235+00

1236+00

1237+00

1238+00

319+00

320+00

321+00

322+00

323+00

+89.46
78.00' Lt

Acquired DE
20160954261

CRP Marwest Logic
Park Owner LLC
101-13-004H

Exist R/W

TCE

SEC 9
T1N-R1E

3 Cy

58 Lf

20 Lf

Exist Retention Basin

First Enterprise Properties LLC
101-06-001N

Exist R/W

SC
5W

Varies

76

+76.09
73.00' Rt

TCE

Exist R/W

+07.88
78.00' Rt

Acquired DE

+07.37
133.35' Rt

MP Phoenix 91 LLC
101-12-649D

Salt River Project
101-11-002J

Exist SRP Well Site
Fence to Remain

+27.11
89.75' Rt

+29.59
126.48' Rt

+37.20
72.90' Rt

TCE

Exist R/W

Sun Land Beef Co.
101-12-632A

SEC 10
T1N-R1E

L = 14.00' @ 0.2857%

Acquired DE
20180150193

End Culvert
Sta 322+07.86, 120.12' Rt
1001.35

Begin Culvert
Sta 321+93.94, 121.64' Rt
1001.31

18" Storm Drain
Sta 322+01.00, 120.87' Rt
Inv=998.15

1240+94.79
253.81' Lt

1001

1001

☐ REMOVAL/RELOCATE BY OTHERS ☐

13	Remove Conc Spillway	371 Sf
14	Remove Conc Scupper Sta 321+02.94, 21.00' Lt	1 Ea

⬡ CONSTRUCTION ⬡

10	Dumped Riprap, D50=6" See Detail DA Section A-A, Sheet 76	3 Cy
20	Scupper See Detail DB, 3-2'-6" Curb Openings Sta 321+04.21, 47.00' Lt (91st Ave)	1 Ea
24	Concrete Spillway Per Detail DA Section B-B 3-2'-6" Curb Openings	58 Lf
30	Safety Rail, Height 3 ft - 6 in MAG Det 145	20 Lf

SCALE: Hor: 1"=20'
20 0 20 40
SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
50959
ZACHARY
SCHMIDT
Date Signed 06/1/22
ARIZONA, USA

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Kimley»Horn

DRAINAGE PLANS
Sta 318+50 to Sta 323+50

SHEET
D14 OF D15

TRACS NO. _____

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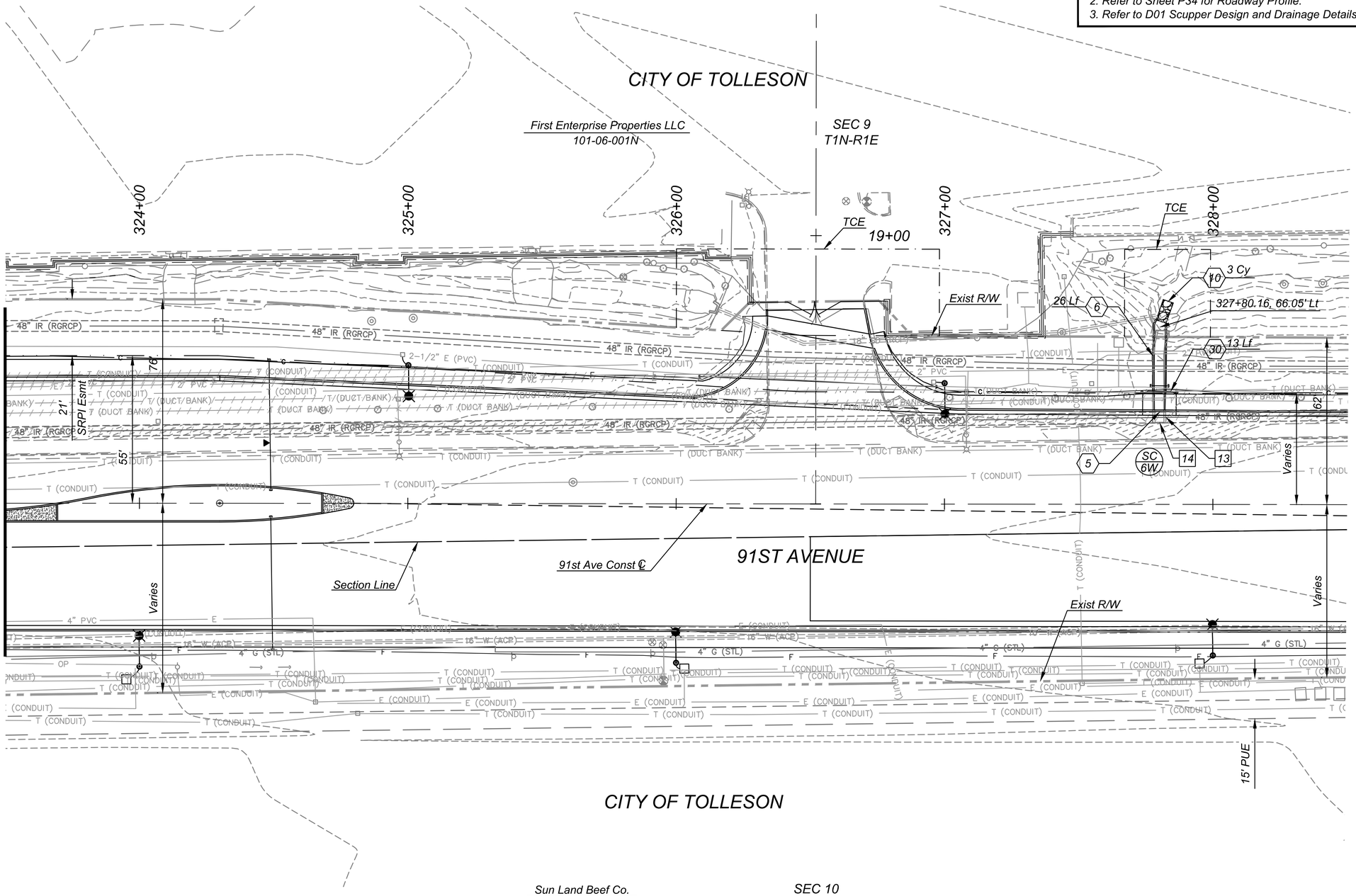
6/15/2022

9:59:35pm

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Drainage\AZE1019_DPP605.dwg

NOTES
1. Refer to Sheet P33 for Roadway Plan.
2. Refer to Sheet P34 for Roadway Profile.
3. Refer to D01 Scupper Design and Drainage Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	90	132	



☐ REMOVAL/RELOCATE BY OTHERS ☐

13	Remove Conc Spillway	104 Sf
14	Remove Conc Scupper Sta 327+80.00, 23.71' Lt	1 Ea

⬡ CONSTRUCTION ⬡

5	Scupper, MAG Det 206, 1-4' Curb Opening Sta 327+80.00, 34.61' Lt (91st Ave)	1 Ea
6	Scupper Spillway, MAG Det 206, 1-4' Curb Opening	26 Lf
10	Dumped Riprap, D50=6" See Detail DA Section A-A, Sheet 76	3 Cy
30	Safety Rail, Height 3 ft - 6 in MAG Det 145	13 Lf

SCALE: Hor: 1"=20'

20 0 20 40

SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811 Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT Date Signed 06/17/22 ARIZONA, USA

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	T. Chagolla	06/2022
CHECKED	Z. Schmidt	06/2022

Kimley»Horn

DRAINAGE PLANS
Sta 323+50 to Sta 328+50

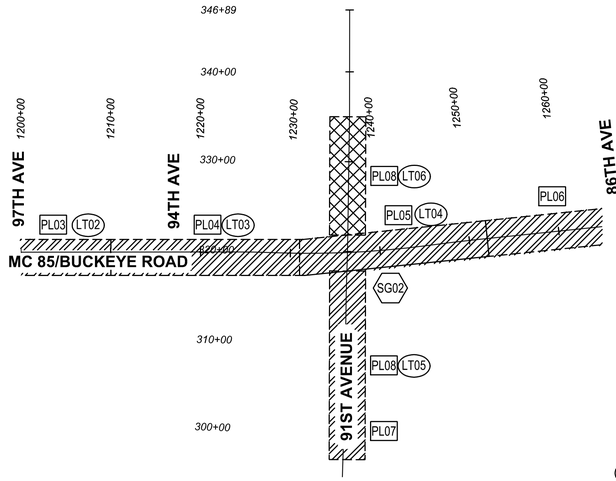
SHEET D15 OF D15

TRACS NO. _____

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	91	132	

SIGNING AND MARKING PLAN

TRAFFIC SHEETS



SIGNING AND MARKING SHEETS

STREET LIGHTING SHEETS

SIGNAL SHEETS

KEY MAP

Not to Scale

CITY OF PHOENIX BOUNDARY

CITY OF TOLLESON BOUNDARY

JURISDICTION KEY

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811

Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
34570
KIMBERLY
CARROLL
Date Signed 6/23/22
ARIZONA, U.S.A.

	BY	DATE
DESIGNED	B. Soto	06/2022
DRAWN	B. Soto	06/2022
CHECKED	K. Carroll	06/2022

Kimley»Horn

TRAFFIC - COVER

SHEET PL01 OF PL12

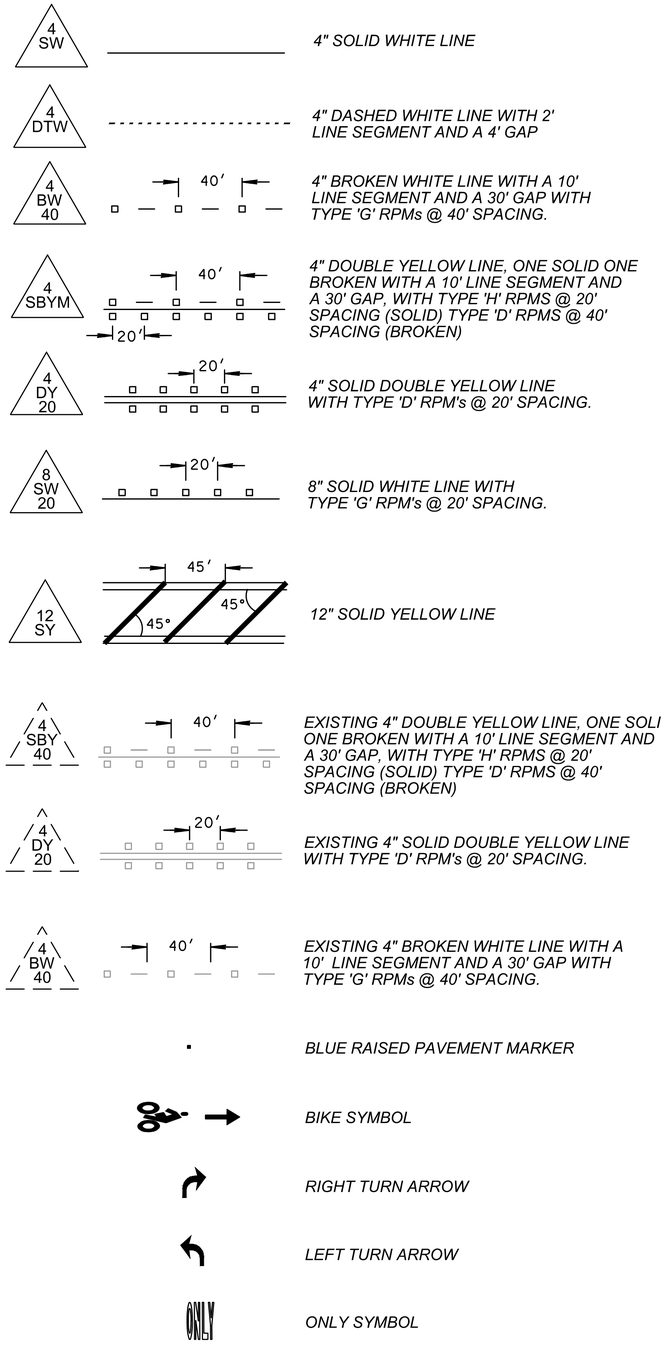
TRACS NO. _____

Plot Time: 2:24:58pm
Plot Date: 6/23/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signing and Marking\AZE1019_st_cover01.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	92	132	

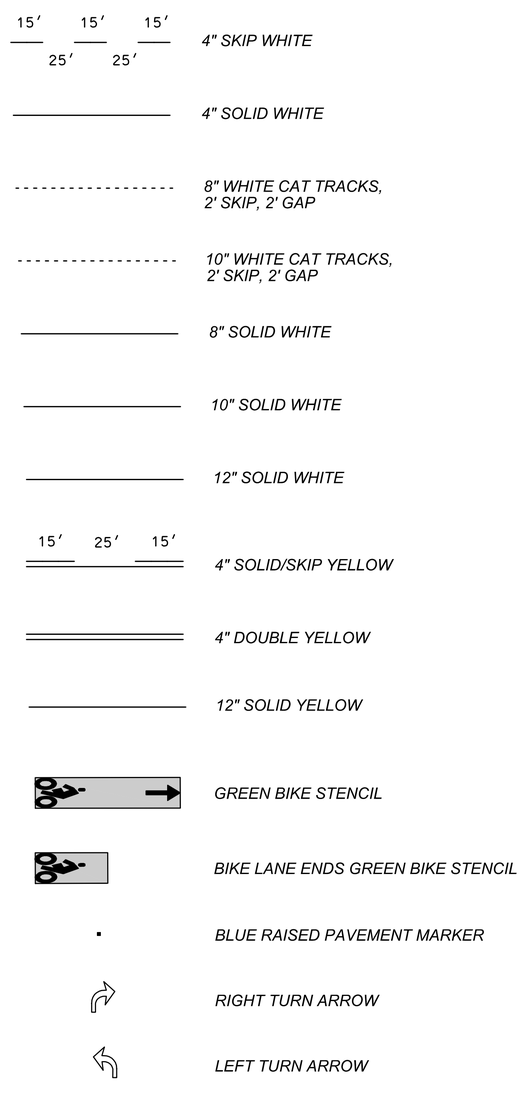
SIGNING AND MARKING PLAN

MCDOT STRIPING LEGEND



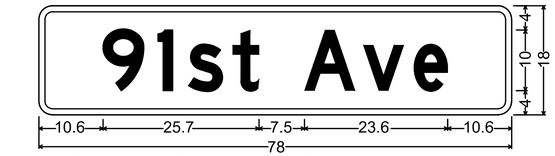
NOTE: STRIPING LEGEND IS ONLY FOR PAVEMENT MARKINGS WITHIN MCDOT'S JURISDICTION.

CITY OF PHOENIX STRIPING LEGEND

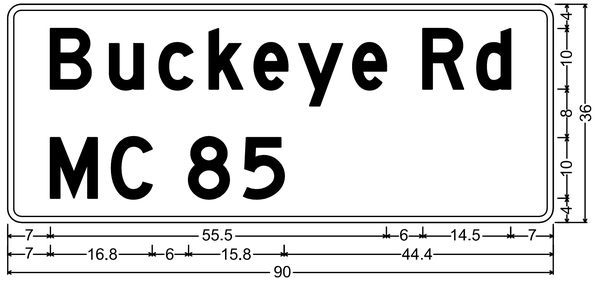


NOTE: STRIPING LEGEND IS ONLY FOR PAVEMENT MARKINGS WITHIN CITY OF PHOENIX JURISDICTION.

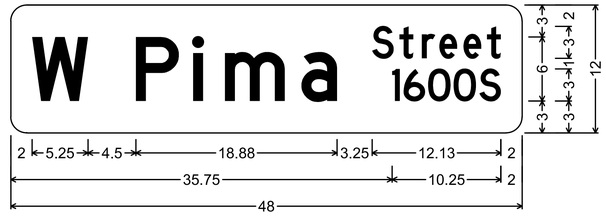
SIGN FORMATS



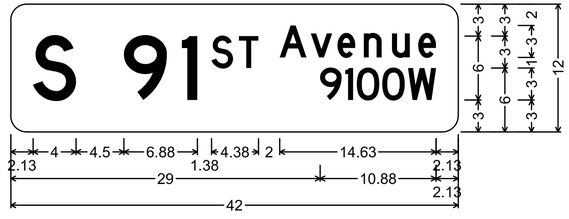
2.3" Radius, 1.0" Border, White on Green;
"91st" D; "Ave" D;



2.3" Radius, 1.0" Border, White on Green;
"Buckeye" D; "Rd" D; "MC" D; "85" D;



D3-1(conventional road - 8");
1.50" Radius, No border, White on, Blue;
"W", D; "Pima", D; "Street", D; "1600S", D 50% spacing;



D3-1(conventional road - 8");
1.50" Radius, No border, White on, Blue;
"S", D; "91ST", D; "Avenue", D;
"9100W", D 50% spacing;

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
1			
2			
3			
4			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
34570
KIMBERLY CARROLL
Date Signed 6/23/22
ARIZONA, U.S.A.

	BY	DATE
DESIGNED	B. Soto	06/2022
DRAWN	B. Soto	06/2022
CHECKED	K. Carroll	06/2022

Kimley»Horn

SIGNING AND MARKING - NOTES

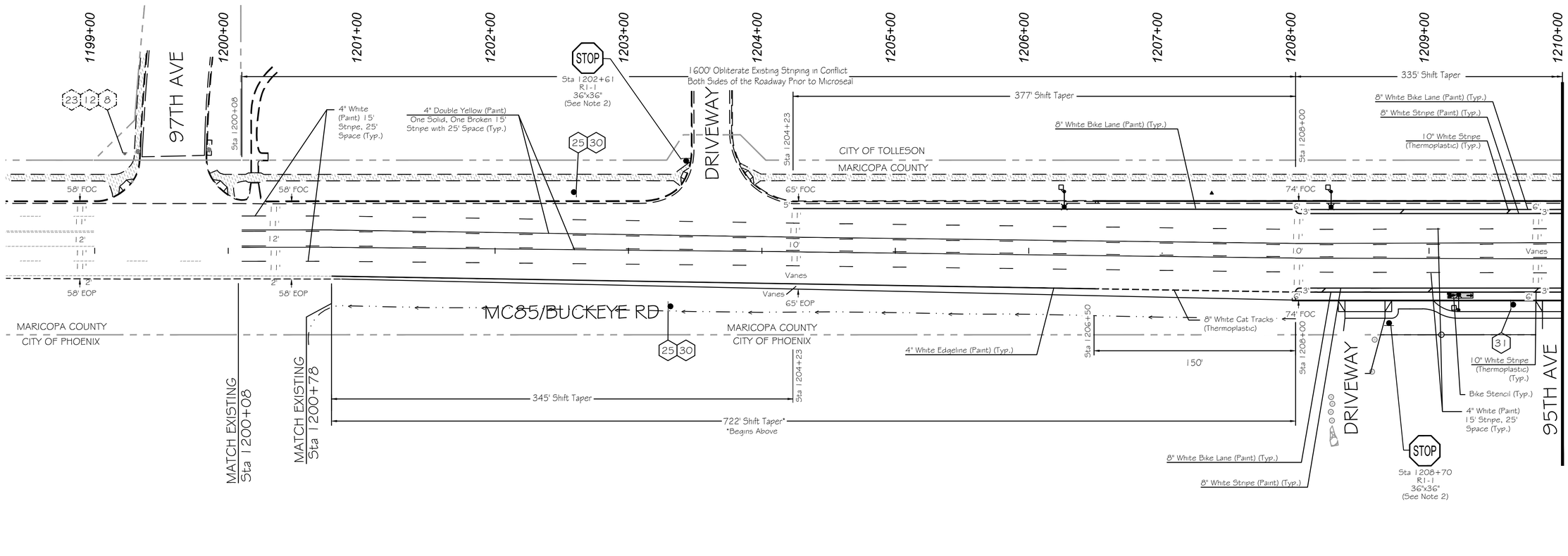
SHEET PL02 OF PL12

TRACS NO. _____

Plot Time: 2:25:47pm
Plot Date: 6/23/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signing and Marking\az1019-st-note01.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	93	132	

SIGNING AND MARKING PLAN



TRAFFIC SIGN LEGEND

8	12	23	25	30	31	XX
97TH AVE	W. BUCKEYE ROAD	STOP	SPEED LIMIT 45	CENTER LANE ONLY	BIKE LANE	EXISTING SIGNS
G-5	G-5	R1-1 36" X 36"	R2-1 30" X 36"	R3-9b 24" X 18"	R3-17 24" X 18"	

NOTES:

1 - Maintain existing signs unless otherwise noted.

2 - Maintained by Property Owner.

THE CITY OF PHOENIX INSPECTOR SHALL NOTIFY THE CITY OF PHOENIX TRAFFIC SERVICES FIELD INVESTIGATOR UNIT (602)262-4684 A MINIMUM OF FIFTEEN (15) BUSINESS DAYS PRIOR TO HAVING TRAFFIC SIGN AND PAVEMENT WORK COMMENCE

ALL TRAFFIC SIGNALS AND ROADWAY SIGNS MOUNTED ON TRAFFIC SIGNAL POLES OR SIGNAL MAST ARMS ARE MAINTAINTED BY MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION UNLESS OTHERWISE NOTED

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

Registered Professional Engineer (Civil) CERTIFICATE NO. 34570 KIMBERLY CARROLL Date Signed 6/23/22 ARIZONA, U.S.A.

	BY	DATE
DESIGNED	B. Soto	06/2022
DRAWN	B. Soto	06/2022
CHECKED	K. Carroll	06/2022

Kimley»Horn

SIGNING AND MARKING PLAN
STA 1189+00 TO STA 1210+00

SHEET PL03 OF PL12

TRACS NO. _____

FILE #: 11256

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

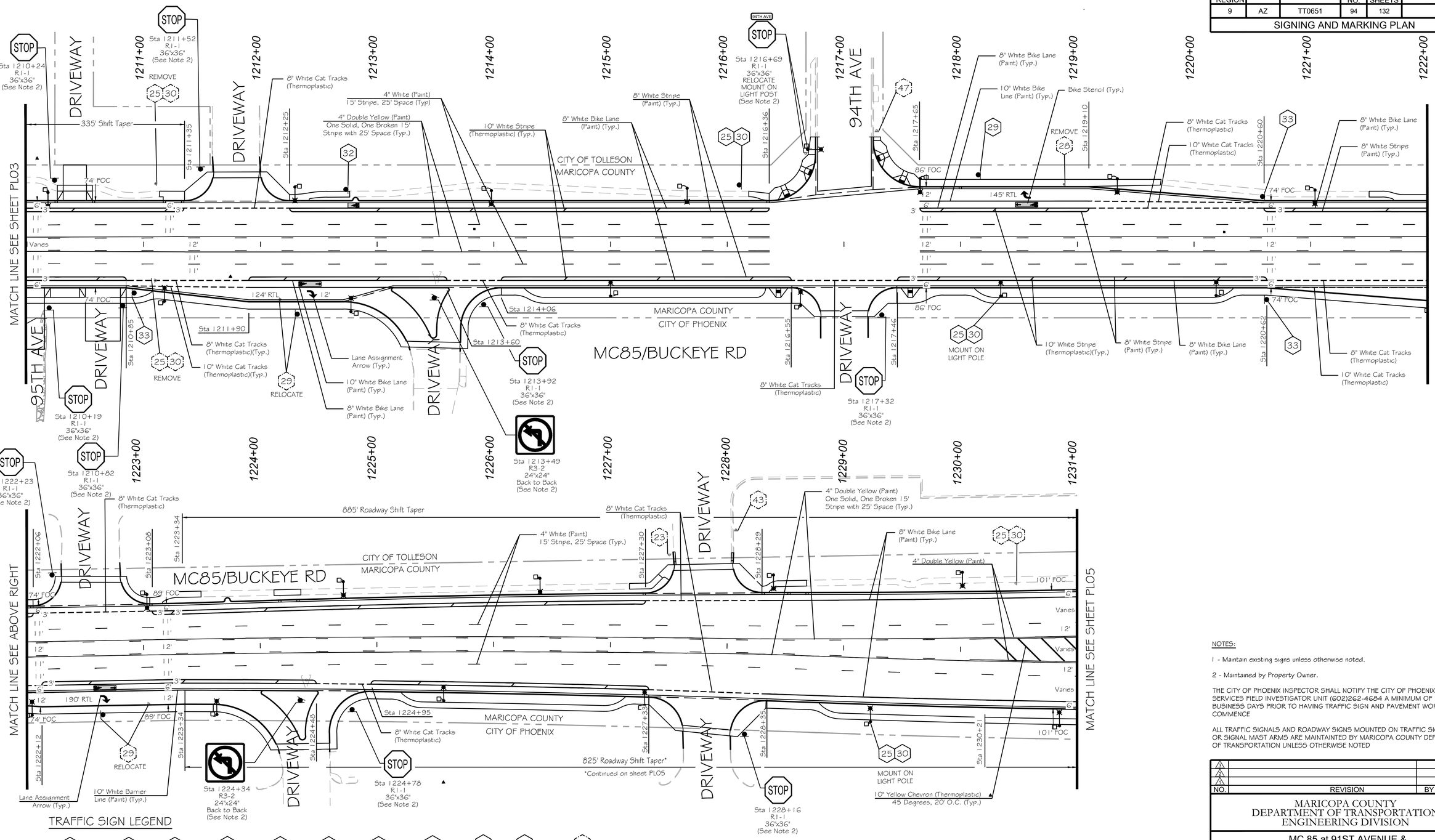
PAINT & SIGN: MC 85 / BUCKEYE RD, 97TH AVENUE TO 87TH AVENUE

Plot Time: 2:27:40pm
Plot Date: 6/23/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signing and Marking\aze1019-st-pl04.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	94	132	

SIGNING AND MARKING PLAN

PAINT & SIGN: MC 85 / BUCKEYE RD, 97TH AVENUE TO 87TH AVENUE



TRAFFIC SIGN LEGEND

7	23	25	28	29	30	32	33	43	47	XX
94TH AVE	STOP	SPEED LIMIT 45	ONLY	RIGHT LANE MUST TURN RIGHT	CENTER LANE ONLY	BIKE LANE ENDS	BEGIN RIGHT TURN LANE YIELD TO BIKES	FIRE LANE	NO OUTLET	EXISTING SIGNS
G-5	R1-1 36" X 36"	R2-1 30" X 36"	R3-5(R) To Be Removed	R3-7(R) 36" X 36"	R3-9b 24" X 36"	R3-17b 24" X 26"	R4-4 36" X 30"	Special	R14-2	

NOTES:

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2 - Maintained by Property Owner.

THE CITY OF PHOENIX INSPECTOR SHALL NOTIFY THE CITY OF PHOENIX TRAFFIC SERVICES FIELD INVESTIGATOR UNIT (602)262-4684 A MINIMUM OF FIFTEEN (15) BUSINESS DAYS PRIOR TO HAVING TRAFFIC SIGN AND PAVEMENT WORK COMMENCE

ALL TRAFFIC SIGNALS AND ROADWAY SIGNS MOUNTED ON TRAFFIC SIGNAL POLES OR SIGNAL MAST ARMS ARE MAINTAINTED BY MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION UNLESS OTHERWISE NOTED

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	B. Soto	06/2022
DRAWN	B. Soto	06/2022
CHECKED	K. Carroll	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 34570 KIMBERLY CARROLL Date Signed 6/23/22 ARIZONA, USA

Kimley»Horn

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SIGNING AND MARKING PLAN
STA 1210+00 TO STA 1231+00

SHEET PL04 OF PL12

TRACS NO. _____

FILE #: 1256

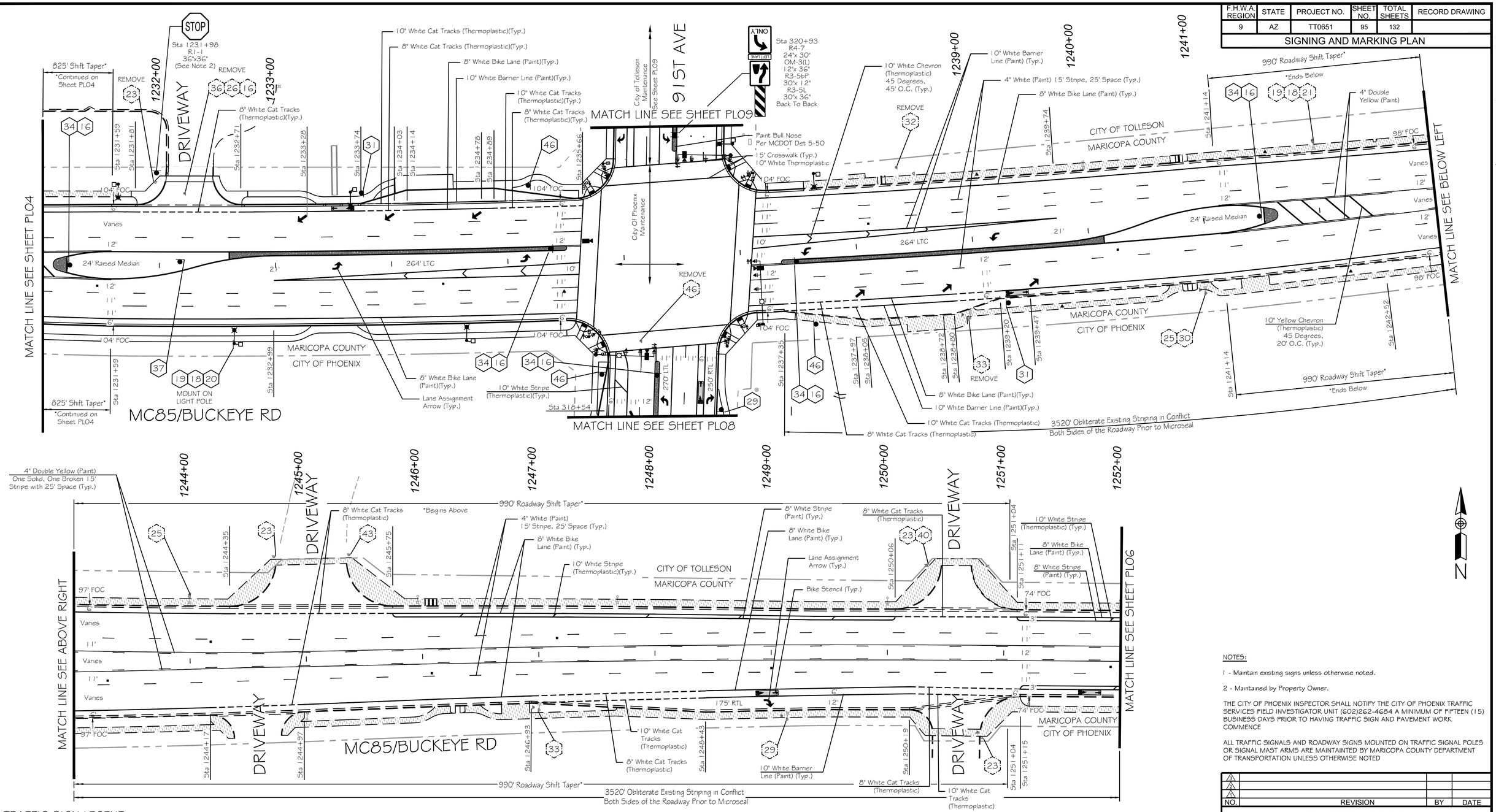
N

Plot Time: 2:29:46pm
Plot Date: 6/23/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signing and Marking\aze1019-st-pl05.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	95	132	

SIGNING AND MARKING PLAN

PAINT & SIGN: MC 85 / BUCKEYE RD, 97TH AVENUE TO 87TH AVENUE



NOTES:

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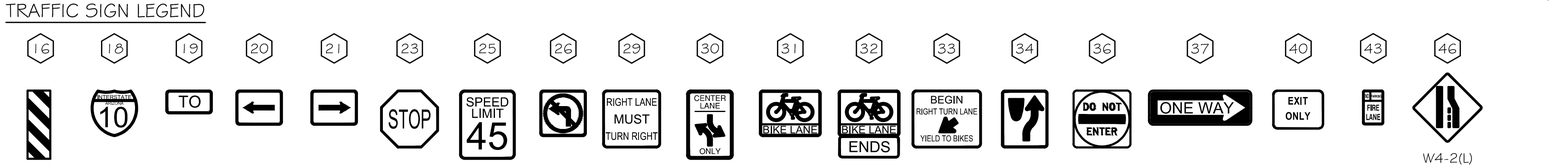
2 - Maintained by Property Owner.

THE CITY OF PHOENIX INSPECTOR SHALL NOTIFY THE CITY OF PHOENIX TRAFFIC SERVICES FIELD INVESTIGATOR UNIT (602)262-4684 A MINIMUM OF FIFTEEN (15) BUSINESS DAYS PRIOR TO HAVING TRAFFIC SIGN AND PAVEMENT WORK COMMENCE

ALL TRAFFIC SIGNALS AND ROADWAY SIGNS MOUNTED ON TRAFFIC SIGNAL POLES OR SIGNAL MAST ARMS ARE MAINTAINTED BY MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION UNLESS OTHERWISE NOTED

TRAFFIC SIGN LEGEND



XX EXISTING SIGN

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 34570 KIMBERLY CARROLL Date Signed 6/23/22 ARIZONA, U.S.A.

	BY	DATE
DESIGNED	B. Soto	06/2022
DRAWN	B. Soto	06/2022
CHECKED	K. Carroll	06/2022

Kimley»Horn

SIGNING AND MARKING PLAN
STA 1231+00 TO STA 1252+00

SHEET PL05 OF PL12

TRACS NO. _____

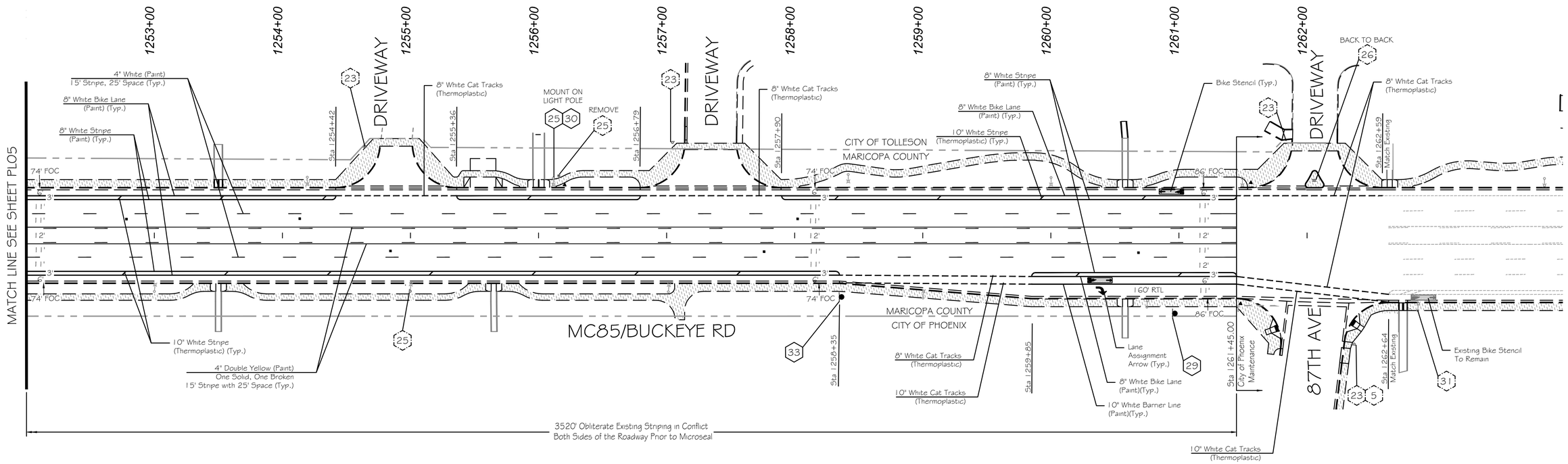
FILE #: 111256

Plot Date: 6/23/2022 Plot Time: 2:31:51pm Plotted By: sam.hanson

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signing and Marking\aze1019-st-pl06.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	96	132	

SIGNING AND MARKING PLAN



TRAFFIC SIGN LEGEND

5	23	25	26	29	30	31	33	XX
87TH AVE	STOP	SPEED LIMIT 45		RIGHT LANE MUST TURN RIGHT	CENTER LANE ONLY	BIKE LANE	BEGIN RIGHT TURN LANE YIELD TO BIKES	EXISTING SIGN
G-5	R1-1 36" X 36"	R2-1 30" X 36"	R3-2	R3-7(R) 36" X 36"	R3-9b 24" X 36"	R3-17 24" X 18"	R4-4 36" X 30"	

Dial 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____
DATE:

STREET TRANSPORTATION
TRAFFIC SERVICES
DEPUTY DIRECTOR _____
DATE:

NOTES:

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2 - Maintained by Property Owner.

THE CITY OF PHOENIX INSPECTOR SHALL NOTIFY THE CITY OF PHOENIX TRAFFIC SERVICES FIELD INVESTIGATOR UNIT (602)262-4684 A MINIMUM OF FIFTEEN (15) BUSINESS DAYS PRIOR TO HAVING TRAFFIC SIGN AND PAVEMENT WORK COMMENCE

ALL TRAFFIC SIGNALS AND ROADWAY SIGNS MOUNTED ON TRAFFIC SIGNAL POLES OR SIGNAL MAST ARMS ARE MAINTAINTED BY MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION UNLESS OTHERWISE NOTED

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
34570
KIMBERLY
CARROLL
Date Signed: 6/21/22
ARIZONA, U.S.A.

	BY	DATE
DESIGNED	B. Soto	06/2022
DRAWN	B. Soto	06/2022
CHECKED	K. Carroll	06/2022

Kimley»Horn

SIGNING AND MARKING PLAN
STA 1252+00 TO STA 1273+00

SHEET PL06 OF PL12

TRACS NO. _____

FILE #: 1 1256

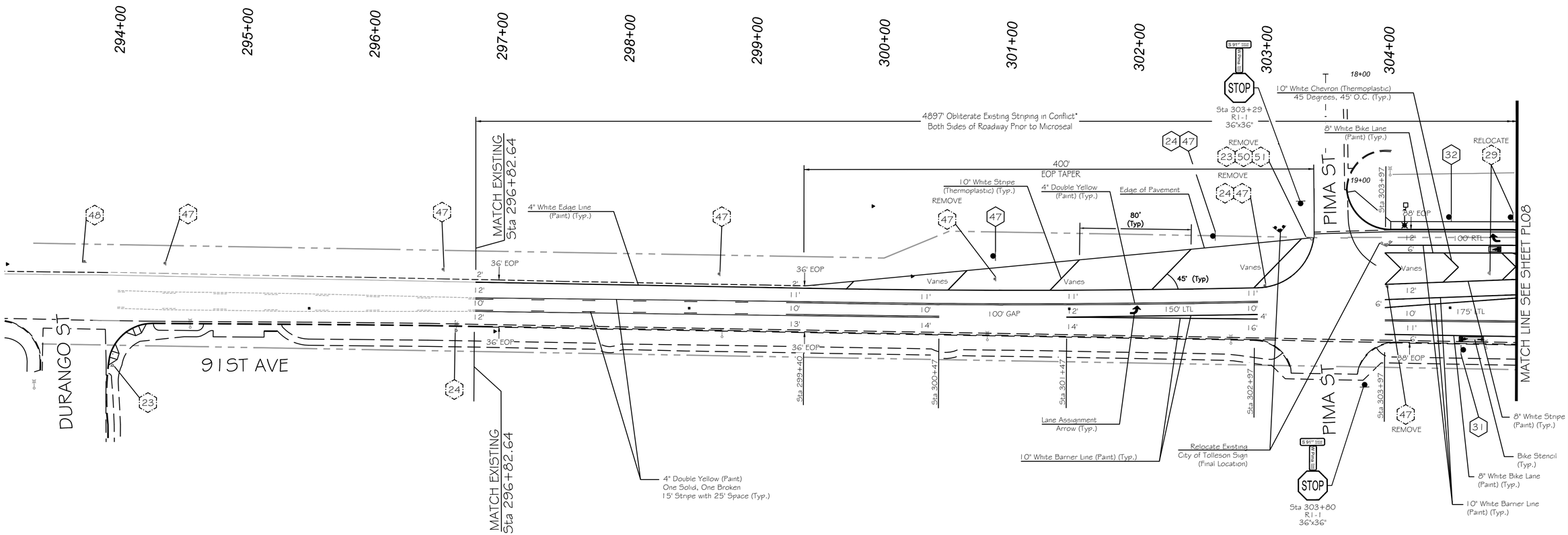
PAINT & SIGN: MC 85 / BUCKEYE RD, 97TH AVENUE TO 87TH AVENUE

Plot Time: 2:33:46pm
Plot Date: 6/23/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signing and Marking\aze1019-st-pl07.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	97	132	

SIGNING AND MARKING PLAN

PAINT & SIGN: 91ST AVENUE, DURANGO STREET TO 1,400 FT NORTH OF BUCKEYE RD / MC85



NOTES:

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2 - Maintained by Property Owner.

THE CITY OF PHOENIX INSPECTOR SHALL NOTIFY THE CITY OF PHOENIX TRAFFIC SERVICES FIELD INVESTIGATOR UNIT (602)262-4684 A MINIMUM OF FIFTEEN (15) BUSINESS DAYS PRIOR TO HAVING TRAFFIC SIGN AND PAVEMENT WORK COMMENCE

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TRAFFIC SIGN LEGEND

23	24	47	48	31	32	50	51	XX
STOP	SPEED LIMIT 45			BIKE LANE	BIKE LANE ENDS	S 91ST Avenue 9100W	W Pima Street 10000S	EXISTING SIGN
R1-1 36" X 36"	R2-1 30" X 36"	OM-3(L) 12" X 36"	W1-7	R3-17 24" X 18"	R3-17b 24" X 26"	G-5 42" X 12"	G-5 48" X 12"	

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 34570 KIMBERLY CARROLL Date Signed 6-23-22 ARIZONA, U.S.A.

	BY	DATE
DESIGNED	B. Soto	06/2022
DRAWN	B. Soto	06/2022
CHECKED	K. Carroll	06/2022

Kimley»Horn

SIGNING AND MARKING PLAN
STA 298+00 TO STA 318+50

SHEET PL07 OF PL12

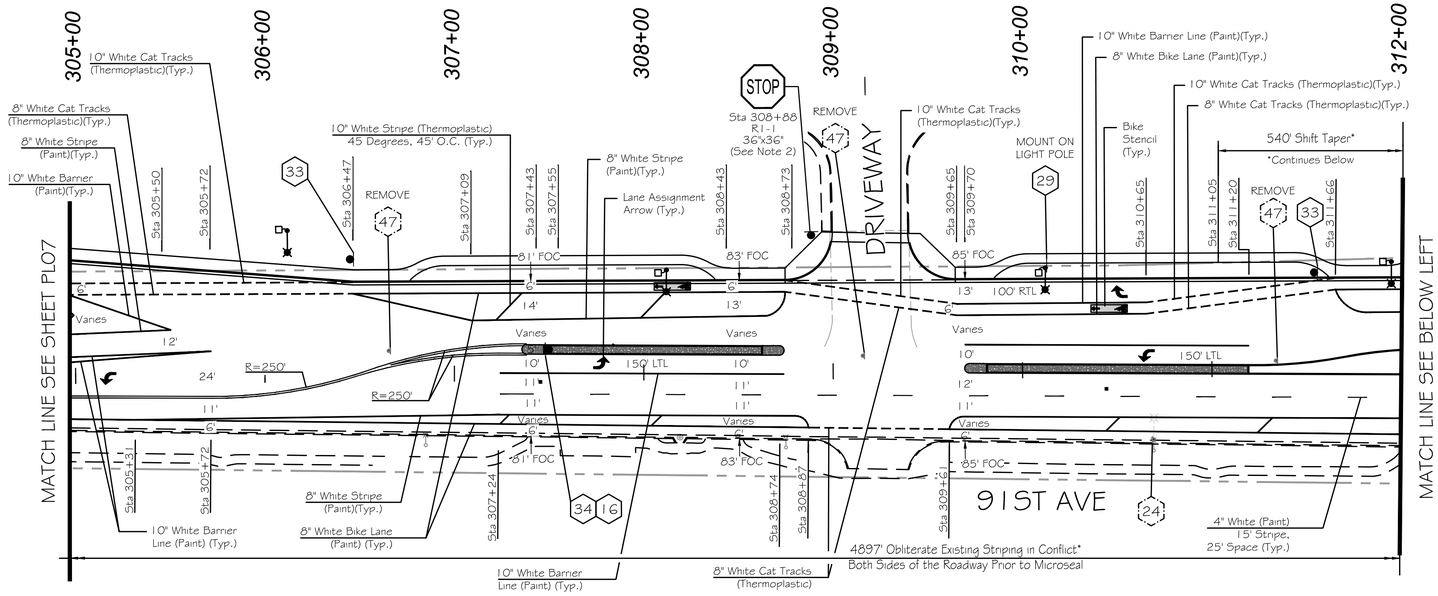
TRACS NO. _____

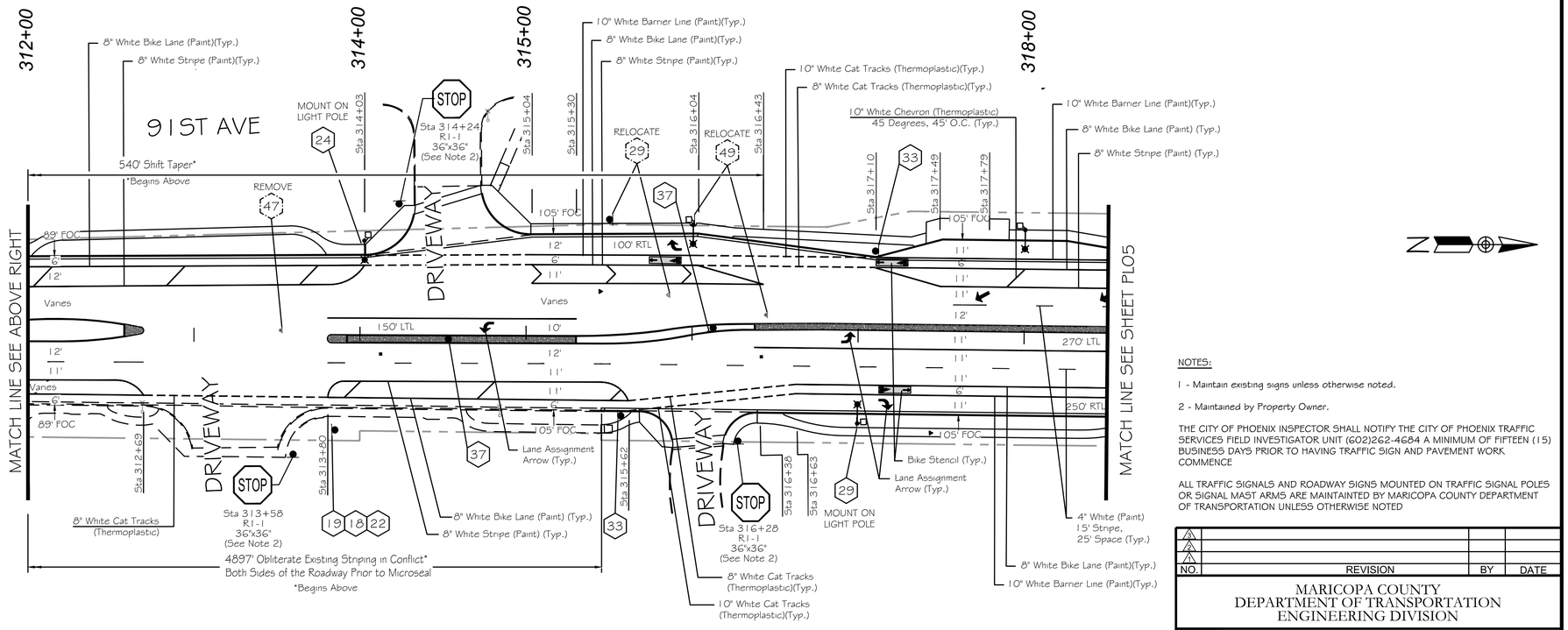
FILE #: 1534

Plot Time: 2:35:47pm
Plot Date: 6/23/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signing and Marking\aze1019-st-pl16.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	98	132	

SIGNING AND MARKING PLAN





TRAFFIC SIGN LEGEND

16	18	19	22	23	24	29	31
OM-3(L) 12" X 36"	M1-1 24" X 24"	M4-5 24" X 12"	M6-3 24" X 18"	R1-1 (36" X 36")	R2-1 30" X 36"	R3-7(R) 36" X 36"	R3-17 24" X 18"
32	33	34	37	47	49	XX	
R3-17b 24" X 26"	R4-4 36" X 30"	R4-7 24" X 30"	R6-1R 54" X18"	OM-3(R) 12" X 36"	Special	EXISTING SIGN	

NOTES:

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2 - Maintained by Property Owner.

THE CITY OF PHOENIX INSPECTOR SHALL NOTIFY THE CITY OF PHOENIX TRAFFIC SERVICES FIELD INVESTIGATOR UNIT (602)262-4684 A MINIMUM OF FIFTEEN (15) BUSINESS DAYS PRIOR TO HAVING TRAFFIC SIGN AND PAVEMENT WORK COMMENCE

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NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____

DATE:

STREET TRANSPORTATION
TRAFFIC SERVICES
DEPUTY DIRECTOR _____

DATE:

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

Registered Professional Engineer (Civil)
CERTIFICATE NO.
34570
KIMBERLY CARROLL
Date Signed 6/21/22
ARIZONA, U.S.A.

	BY	DATE
DESIGNED	B. Soto	06/2022
DRAWN	B. Soto	06/2022
CHECKED	K. Carroll	06/2022

Kimley»Horn

SIGNING AND MARKING PLAN
STA 298+00 TO STA 318+50

SHEET PL08 OF PL12

TRACS NO. _____

FILE #11534

PAINT & SIGN: 91ST AVENUE, DURANGO STREET TO 1,400 FT NORTH OF BUCKEYE RD / MC85

Plot Time: 2:37:55pm

Plot Date: 6/23/2022

Plotted By: sam.hanson

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signing and Marking\aze1019-st-pl17.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	99	132	

SIGNING AND MARKING PLAN

Match Line See Sheet PL05

Sta 321+20
R3-5fP
30"x 12"
R3-5R
30"x 36"
Mount on
Light Pole

4 SW

4 BW40

8 SW20

Reflective Tape
ONLY Symbol
Per MCDOT Det 5-36

Reflective Tape
Left Turn
Arrow (typ)

Sta 324+00
R3-5fP
30"x 12"
R3-5R
30"x 36"

Reflective Tape
Right Turn Arrow (typ)

Reflective Tape
Bike Symbol (typ)
Per MCDOT Det 5-26

Paint Bull Nose
Per MCDOT
Det 5-50

12 SY TYP

Sta 326+06
R4-4
36"x 30"

Sta 326+24
R1-1
36"x36"

Sta 326+31
R1-1
Exist Sign
To Be Removed

Driveway

4 SBY40

Sta 328+99
Mount On
Light Pole
R2-1-45
30"x 36"

Sta 329+05
R2-1-45
Exist Sign
To Be Removed

Sta 329+42
R1-1
36"x36"

Sta 329+43
R1-1
Exist Sign
To Be Removed

Driveway

91ST AVENUE

365' STORAGE

260' STORAGE

45°

20' TYP

Sta 321+05

Sta 321+94

Sta 322+12

Sta 322+49

Sta 322+69

Sta 323+00

Sta 323+20

Sta 323+30

Sta 324+00

Sta 324+30

Sta 324+66
R4-7
24"x 30"
OM-3(L)
12"x 36"

Sta 324+91

Sta 325+16

Sta 325+80

Sta 326+00

Sta 327+54

Sta 328+00

Sta 329+00

Sta 329+09

4 DTW

4SW

4 DY20

Fire Hydrant

Raised Pavement
Marker (typ)

Reflective Tape
Lane Reduction
Arrow (typ)

Sta 325+37
R7-13h
Exist Sign
to Remain

Sta 327+86
R7-13h
Exist Sign
To be Relocated
Mount On
Light Pole

526' Shift Taper*

*Continues Below

Match Line Sta 330+50

Sta 325+49

2393' Obliterate Existing Striping in Conflict Prior to Microseal

*Continues Below

City Of Phoenix Maintenance

City of Tolleson Maintenance

Sta 323+07
Special
Special
Exist Sign
To Be
Relocated

VFA

Welcome to TOLLESON

Sta 323+58
W4-2-R
36"x 36"

Sta 324+00
Mount on
Light Pole
R2-1-45
30"x 36"
W16-1
18"x 24"

Sta 324+03
R2-1-45
W16-1
Exist Signs
To Be
Removed

Sta 332+46
R1-1
Exist Sign
To Be Removed

Sta 334+35
R1-1
Exist Sign
to Remain

Match Line Sta 330+50

4 BW40

4 SBY40

Sta 332+43
R1-1
36"x36"

Driveway

Obliterate Existing
Striping in Conflict

Match Exist
Striping

4 SBY40
To Remain

4 BW40
To Remain

4 SBY40
To Remain

91ST AVENUE

Fire Hydrant

Raised Pavement
Marker (typ)

Sta 331+48

Sta 331+00

Sta 333+00

Sta 334+00

Sta 334+35

Sta 334+40
R2-1-45
Exist Sign
to Remain

526' Shift Taper*
*Begins Above

2393' Obliterate Existing Striping in Conflict
*Begins Above

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SCALE: Hor: 1"=40'

40 0 40 80

SCALE IN FEET

N

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
34570
KIMBERLY
CARROLL
May Seventh 20 22
ARIZONA, U.S.A.

	BY	DATE
DESIGNED	B. Soto	06/2022
DRAWN	B. Soto	06/2022
CHECKED	K. Carroll	06/2022

Kimley»Horn

SIGNING AND MARKING PLAN
STA 321+50 TO STA 335+00

SHEET
PL09 OF PL12

TRACS NO. _____

Plot Time: 2:39:25pm
Plot Date: 6/23/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signing and Marking\aze1019-st-pl18.dwg

SIGNING SUMMARY (MC 85)

STA.	SIGN CODE	NEW	WORK: NEW / EXISTING: RELOCATE	WORK: NEW / EXISTING: REMOVE & SALVAGE	WORK: NEW / EXISTING: SEE REMARKS	OFFSET FROM EP: Lt (ft)	OFFSET FROM EP: Rt (ft)	PANEL: LEGEND	SIGN SIZE: WIDTH (in)	SIGN SIZE: HEIGHT (in)	SHEETING TYPE AREA (sq. ft.): H	SHEETING TYPE AREA (sq. ft.): D	GROUND MOUNT POSTS: NO. POSTS	TYPE (length): P (ft)	TYPE (length): U (ft)	TYPE (length): R (ft)	FOUNDATIONS: P (ea)	FOUNDATIONS: U/R (ea)	REMARKS
MC 85 & 91ST AVENUE																			
WB 1235+68	D3-2d			X				91st Ave											See Sheet SG01
EB 1236+00	D3-2e			X				BUCKEYE RD MC 85											See Sheet SG01
WB 1237+14	D3-2e			X				BUCKEYE RD MC 85											See Sheet SG01
EB 1237+18	D3-2d			X				91st Ave											See Sheet SG01
WB 1235+68	R10-3eL	X			X			Push Button for Crossing Left	6	12	X								Mount on Signal Pole A, Sheet SG03
	D3-2d	X			X			91st Ave	78	18									Mount on Signal Pole A, Sheet SG03
EB 1235+67	R10-3eL	X			X			Push Button for Crossing Left	6	12	X								Mount on Signal Pole I, Sheet SG03
EB 1235+73	R10-3eL	X			X			Push Button for Crossing Left	6	12	X								Mount on Signal Pole H, Sheet SG03
	D-2e	X			X			Buckeye Rd MC 85	90	36									Mount on Signal Pole H, Sheet SG03
WB 1235+85	R10-3eR	X			X			Push Button for Crossing Right	6	12	X								Mount on Signal Pole B, Sheet SG03
EB 1236+85	R10-3eR	X			X			Push Button for Crossing Right	6	12	X								Mount on Signal Pole G, Sheet SG03
EB 1236+98	R10-3eR	X			X			Push Button for Crossing Right	6	12	X								Mount on Signal Pole F, Sheet SG03
WB 1237+15	R10-3eR	X			X			Push Button for Crossing Right	6	12	X								Mount on Signal Pole D, Sheet SG03
EB 1237+17	D3-2d	X			X			91st Ave	78	18									Mount on Signal Pole E, Sheet SG03
WB 1236+96	R10-3eL	X			X			Push Button for Crossing Left	6	12	X								Mount on Signal Pole C, Sheet SG03
	D3-2e	X			X			Buckeye Rd MC 85	90	36									Mount on Signal Pole C, Sheet SG03
MC 85, 97TH AVENUE TO 87TH AVENUE																			
WB1202+61	R1-1	X				5'		Stop	30	30	6.25		1	12			1		
EB 1208+70	R1-1	X					6'	Stop	30	30	6.25		1	12			1		
EB 1210+19	R1-1	X					4'	Stop	30	30	6.25		1	12			1		
WB 1210+24	R1-1	X				7'		Stop	30	30	6.25		1	12			1		
EB 1210+82	R1-1	X					2'	Stop	30	30	6.25		1	12			1		
WB 1211+52	R1-1	X				8'		Stop	30	30	6.25		1	12			1		
EB 1213+49	R3-2	X				8'		No Left	24	24	4.00		1	12			1		
EB 1213+92	R1-1	X					15'	Stop	30	30	6.25		1	12			1		
WB 1216+69	G-5		X		X			94th Ave											Mount on Light Pole
	R1-1		X		X			Stop											Mount on Light Pole
EB 1217+32	R1-1	X					12'	Stop	30	30	6.25		1	12			1		
WB 1222+23	R1-1	X				8'		Stop	30	30	6.25		1	12			1		
WB 1224+34	R3-2	X				10'		No Left	24	24	4.00		1	12			1		
EB 1224+78	R1-1	X					15'	Stop	30	30	6.25		1	12			1		
EB 1228+16	R1-1	X					12'	Stop	30	30	6.25		1	12			1		
WB 1231+97	R1-1			X				Stop											
WB 1231+98	R1-1	X					12'	Stop	30	30	6.25		1	12			1		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	100	132	

SIGNING AND MARKING PLAN

MCDOT Signing General Notes:

1. *Installation of all signs shall be in compliance with the MCDOT Supplement to the Maricopa Association of Governments' (MAG) uniform standard specifications for Public Works construction; sections 464 And 465, these plans and the special provisions.*
2. *All station locations and offsets shown on the signing plans are approximate.The Contractor shall mark all sign locations and contact the MCDOT project inspector, to coordinate inspection with the County's Traffic Engineer, or his representative prior to any permanent sign installation. All signing installed prior to inspection, if modification is required, shall be removed and reinstalled at the Contractor's expense. Permanent signing may be modified as directed by the County's Traffic Engineer or his representative.*
3. *The Contractor shall provide and install all traffic control signing, perforated posts, u-channel posts, and foundations for the sign posts, at approved locations. All traffic signs shall be attached to the street light poles if the pole is within 25 feet of the sign location as shown on the plans. Any questions concerning signing, contact the project inspector.*
4. *Standard offset for all signs is 12 feet from the near edge of sign to the edge of pavement without curb and gutter, and 2 feet minimum from the near edge of sign to the face of curb with curb and gutter. The sign height, measured vertically from the bottom of the sign to the elevation of the near edge of the pavement shall be 5 feet for Rural and 7 feet for Urban areas.*
5. *All face of bolts and nylon washers used for mounting signs shall match the color in the part of the sign panel in which they are to be placed.*
6. *Post lengths indicated on the Sign Summary sheets are approximate. The Contractor shall verify actual post lengths.*
7. *All post, foundations, and sign panels shall be new unless otherwise directed.*
8. *All street name sign installations shall be in conformance with MCDOT Standard Details 2054-1 or 2054-2. Metro street signs shall conform to MCDOT Standard Detail 4780-2 unless otherwise noted. The metro street name sign formats on the signing and pavement marking plan sheet shall supercede MCDOT Standard Detail 4780-2.*
9. *All foundations for perforated posts shall be in conformance with MCDOT Standard Detail 2058.*
10. *All U-channel posts installations shall be in conformance with MCDOT Standard Detail 2059.*
11. *All signing shall be made of flat sheet aluminum panels unless otherwise directed with the retroreflective sheeting and direct applied or silk screened characters per sections 465.2.3 and 465.2.4 of the MCDOT Supplement to the Maricopa Association of Governments' (MAG) uniform standard specifcations for Public Works construction.*
12. *Signs that need to be removed during construction shall be removed by the Contractor. The Contractor shall remove all permanent signing that is no longer applicable and store sign panels and post in the Contractor's on-site construction yard. Contractor shall schedule with inspector the delivery of salvaged signing material (sign panels & posts, etc.) to 2909 W. Durango St.*

= *Pedestrian Push Button signs are furnished by MCDOT*

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO 34570 KIMBERLY CARROLL Date Signed 6/23/22 ARIZONA, U.S.A.

	BY	DATE
DESIGNED	B. Soto	06/2022
DRAWN	B. Soto	06/2022
CHECKED	K. Carroll	06/2022

Kimley»Horn

SIGN SUMMARY — SHEET PL10 0F PL12

TRACS NO. _____

Plot Time: 2:40:05pm
Plot Date: 6/23/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signing and Marking\aze1019-st-ss01.dwg

SIGNING SUMMARY (MC 85)

STA.	SIGN CODE	NEW	WORK: NEW / EXISTING: RELOCATE	WORK: NEW / EXISTING: REMOVE & SALVAGE	WORK: NEW / EXISTING: SEE REMARKS	OFFSET FROM EP: Lt (ft)	OFFSET FROM EP: Rt (ft)	PANEL: LEGEND	SIGN SIZE: WIDTH (in)	SIGN SIZE: HEIGHT (in)	SHEETING TYPE AREA (sq. ft.): H	SHEETING TYPE AREA (sq. ft.): D	GROUND MOUNT POSTS: NO. POSTS	GROUND MOUNT POSTS: TYPE (length): P (ft)	GROUND MOUNT POSTS: TYPE (length): U (ft)	GROUND MOUNT POSTS: TYPE (length): R (ft)	GROUND MOUNT POSTS: FOUNDATIONS: P (ea)	GROUND MOUNT POSTS: FOUNDATIONS: U/R (ea)	REMARKS
91ST AVENUE - MC85 TO STA 334+50																			
WB 303+29	R1-1	X					7'	Stop	30	30	6.25		1	12			1		
	G-5	X						S 91st Ave	42	12	3.50								
	G-5	X						W Pima Rd	48	12	4.0								
NB 303+80	R1-1	X					7'	Stop	30	30	6.25		1	12			1		
	G-5	X						S 91st Ave	42	12	3.50								
	G-5	X						W Pima Rd	48	12	4.0								
SB 308+88	R1-1	X				11'		Stop	30	30	6.25		1	12			1		
NB 313+58	R1-1	X					10'	Stop	30	30	6.25		1	12			1		
SB 314+24	R1-1	X					10'	Stop	30	30	6.25		1	12			1		
NB 316+28	R1-1	X					9'	Stop	30	30	6.25		1	12			1		
SB 320+93	R4-7	X					2	Keep Right	24	30	5.00		1	11			1		
	OM-3(L)	X						Type 3 Object Marker (Left)	12	36	3.00								
	R3-5bP	X						Left Lane	30	12	2.50								
	R3-5L	X						Turn Only (Left)	30	36	7.50								
SB 321+20	R3-5fP	X					10	Right Lane	30	12	2.50								Mount on Light Pole
	R3-5R	X						Turn Only (Right)	30	36	7.50								
NB 323+07	Special		X		X		10	Welcome to Tolleson					2	24			2		Relocate on New Posts
	Special		X					Veterans of Foreign Wars											
NB 323+58	W4-2-R	X					10	Lane Ends	36	36	9.00		1	12			1		
SB 324+00	R3-5fP	X				x	10	Right Lane	30	12	2.50		1	12			1		
	R3-5R	X						Turn Only (Right)	30	36	7.50								
NB 324+00	R2-1-45	X			X			Speed Limit 45	30	36	7.50								Mount on Light Pole
	W16-1	X			X			Share the Road	18	24	3.00								Mount on Light Pole
NB 324+03	R2-1-45			X				Speed Limit 45											
	W16-1			X				Share the Road											
SB 324+66	R4-7	X					4	Keep Right	24	30	5.00		1	11			1		
	OM-3(L)	X						Type 3 Object Marker (Left)	12	36	3.00								
NB 325+37	R7-13h				X			No Parking or Vehicle Repairs..											Exist to Remain
SB 326+06	R4-4	X						Begin Right Turn Yield To Bikes	36	30	7.50								
SB 326+24	R1-1	X						Stop	36	36	9.00		1	12			1		
SB 326+31	R1-1			X				Stop											
NB 327+86	R7-13h		X		X			No Parking or Vehicle Repairs..											Mount on Light Pole
SB 328+99	R2-1-45	X			X			Speed Limit 45	30	36	7.50								Mount on Light Pole

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	101	132	

SIGNING AND MARKING PLAN

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= *Metro Street Name signs and Pedestrian Push Button signs are furnished by MCDOT*

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 34570 KIMBERLY CARROLL Date Signed 6/23/22 ARIZONA, U.S.A.

	BY	DATE
DESIGNED	B. Soto	06/2022
DRAWN	B. Soto	06/2022
CHECKED	K. Carroll	06/2022

Kimley»Horn

SIGN SUMMARY - 91ST AVENUE

SHEET PL11 0F PL12

TRACS NO. _____

Plot Time: 2:40:44pm
Plot Date: 6/23/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signing and Marking\aze1019-st-ss02.dwg

SIGNING SUMMARY (MC 85)

STA.	SIGN CODE	NEW	WORK NEW / EXISTING: RELOCATE	WORK NEW / EXISTING: REMOVE & SALVAGE	WORK NEW / EXISTING: SEE REMARKS	OFFSET FROM EP: Lt (ft)	OFFSET FROM EP: Rt (ft)	PANEL: LEGEND	SIGN SIZE: WIDTH (in)	SIGN SIZE: HEIGHT (in)	SHEETING TYPE AREA (sq. ft.): H	SHEETING TYPE AREA (sq. ft.): D	GROUND MOUNT POSTS: NO. POSTS	GROUND MOUNT POSTS: TYPE (length): P (ft)	GROUND MOUNT POSTS: TYPE (length): U (ft)	GROUND MOUNT POSTS: TYPE (length): R (ft)	GROUND MOUNT POSTS: FOUNDATIONS: P (ea)	GROUND MOUNT POSTS: FOUNDATIONS: U/R (ea)	REMARKS
91ST AVENUE - MC85 TO STA 334+50																			
SB 329+05	R2-1-45			X				Speed Limit 45											
SB 329+43	R1-1			X				Stop											
SB 329+42	R1-1	X						Stop	36	36	9.00		1	12			1		
SB 332+46	R1-1			X				Stop											
SB 332+43	R1-1	X						Stop	36	36	9.00		1	12			1		
SB 334+35	R1-1				X			Stop											Exist to Remain
NB 334+40	R2-1-45				X			Speed Limit 45											Exist to Remain
											232		31	370			31		SUB-TOTAL

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	102	132	

SIGNING AND MARKING PLAN

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= *Metro Street Name signs and Pedestrian Push Button signs are furnished by MCDOT*

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) — CERTIFICATE NO. 34570 — KIMBERLY CARROLL — Date Signed 6/23/22 — ARIZONA, U.S.A.

	BY	DATE
DESIGNED	B. Soto	06/2022
DRAWN	B. Soto	06/2022
CHECKED	K. Carroll	06/2022

Kimley»Horn

SIGN SUMMARY - 91ST AVENUE

SHEET PL12 0F PL12

TRACS NO. _____

Plot Time: 2:41:24pm
Plot Date: 6/23/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Signing and Marking\aze1019-st-ss03.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	103	132	

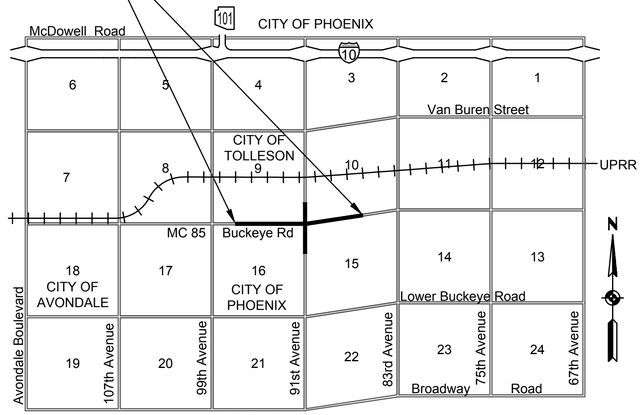
STREET LIGHTING PLANS FOR MC 85

PROJECT NO. TT0651

STREET LIGHTING GENERAL NOTES

THE FOLLOWING INFORMATION IS PROVIDED TO EMPHASIZE CRITICAL WORK AND IS INTENDED TO SUPPLEMENT THE SPECIFICATIONS.

1. THE CONTRACTOR SHALL COMPLY WITH STATE AND CITY STATUTES AND ORDINANCES.
2. PRIOR TO SUBMITTAL, THE STREET LIGHT DESIGNER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THE CONTRACT.
3. THE STREET LIGHT DESIGNER SHOULD VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT DIFFERENCES TO THE DEVELOPER'S CONSTRUCTION MANAGER AND NOT PROCEED WITH WORK UNTIL THE CONSTRUCTION MANAGER RENDERS A DECISION.
4. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LICENSING REQUIREMENTS SET FORTH BY THE STATE REGISTRAR OF CONTRACTORS OFFICE TO PERFORM WORK RELATING TO STREET LIGHT INSTALLATION IN CITY OF PHOENIX RIGHT-OF-WAY.
5. ONE DRY UTILITY PERMIT FOR EACH CITY OF PHOENIX STREET LIGHT PROJECT SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
6. LIGHT POLES SHALL BE INSTALLED PLUMB, BE ADJUSTED TO PROVIDE PROPER ALIGNMENT TO THE ROADWAY BEING LIGHTED AND BE PROPERLY GROUNDED WHEN THE INSTALLATION IS COMPLETED.
7. STREET LIGHTS ARE INSPECTED BY THE CITY OF PHOENIX STREET LIGHTING INSPECTOR. WHEN ACCEPTED AND ENERGIZED THE CONTRACTOR WILL INSTALL POLE NUMBERS PRIOR TO INSPECTION.
8. LUMINAIRES SHALL BE INSTALLED LEVEL AND INCLUDE A LAMP AND PHOTOCELL. THE LUMINAIRES SHALL BE FREE OF DUST, DIRT OR ANYTHING THAT WOULD IMPAIR THE OUTPUT OF THE LIGHT.
9. LUMINAIRES FURNISHED WITH MULTI-TAP DRIVERS SHALL BE REWIRED OR RECONNECTED TO MATCH THE VOLTAGE SUPPLIED BY THE ELECTRIC UTILITY COMPANY.
10. POLE SHALL BE SET PLUMB IN TWO DIRECTIONS, NINETY (90) DEGREES APART.
11. SURPLUS EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR.
12. WIRING SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS. CONDUIT SHALL BE INSTALLED AT THE DEPTH SPECIFIED ON THEIR PLANS.
13. CONDUIT MUST BE LISTED AND LABELED AND SUITABLE FOR UNDERGROUND USE.
14. CONNECTIONS SHALL BE PER SERVING UTILITY COMPANY STANDARDS. EACH POLE SHALL HAVE A 8' X 5/8" COPPER CLAD GROUND ROD DRIVEN BENEATH PULL BOX. A #6 BARE COPPER LEAD FROM THE GROUND ROD IN PULL BOX TO LANDING LUG IN STREET LIGHT POLE HAND HOLE IS REQUIRED.
15. EXCAVATION FOR PULL BOXES AND MATERIAL SPECIFICATIONS SHALL BE PER SERVING UTILITY COMPANY STANDARDS.
16. TRENCH SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS. THE USE OF A COMMON ELECTRIC UTILITY COMPANY TRENCH IS PERMITTED.
17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANY FOR COORDINATION OF THE TRENCHING AND THE INSTALLATION OF CONDUIT.
18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING STREET LIGHT CONSTRUCTION TO THEIR ORIGINAL CONDITION IN CONFORMANCE WITH MAG SPECIFICATION SECTION 107.9.
19. IF A FIXTURE SHOULD FAIL, IT SHALL BE IMMEDIATELY REPLACED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL PERSONNEL AND EQUIPMENT NECESSARY TO SUCCESSFULLY REPAIR THE FIXTURE.
20. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ENGINEERING MANAGER, AGAINST IMPERFECT WORKMANSHIP, FAILURE, MALFUNCTION OF MATERIALS AND/OR EQUIPMENT DUE TO FAULTY OR IMPERFECT WORKMANSHIP.
21. THIS GUARANTEE IS TO BE IN WRITING TO THE CITY AT THE TIME OF ISSUING FINAL ACCEPTANCE. MATERIALS AND WORKMANSHIP FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD SHALL BE REPLACED WITHOUT COST TO THE CITY.
22. FOR COUNTY FURNISHED POLES THE CONTRACTOR SHALL REMOVE AND REPLACE THE CORROSION PROTECTION WRAP. NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK, THE COST BEING CONSIDERED INCIDENTAL TO AND INCLUDED WITHIN THE INSTALL OF THE COUNTY FURNISHED POLE.



VICINITY MAP

Not to Scale

LEGEND

- LED COBRAHEAD LUMINAIRE AND POLE (SEE NOTE FOR DESCRIPTION)
- SRP PULL BOX
- EXISTING STREET LIGHT POLE
- EXISTING STREET LIGHT MOUNTED ON POWER POLE
- SRP TRANSMISSION (69kV) SETUP AREA

LED STREETLIGHT NOTES

1. INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'-6" POLE WITH AN 20"X6' MAST ARM PER GRAY ROADWAY POLE STANDARDS AERIAL POLE CODE 1944.38. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J-BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.
2. EXISTING STREET LIGHT POLE AND PULL BOX TO REMAIN. REPLACE LUMINAIRE WITH 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL.
3. EXISTING STREET LIGHT LUMINAIRE AND MAST ARM ON POWER POLE TO BE REMOVED AND PROPERLY DISPOSED OF BY SRP.
4. INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL PER DETAIL A CUSTOM POLE 9' SPECIFICATIONS. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J-BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.
5. RELOCATE EXISTING POLE TO NEW LOCATION. LOCATE EXISTING CONDUIT AND EXTEND TO NEW POLE LOCATION. REMOVE EXISTING HPS FIXTURE AND INSTALL NEW GE 97W 9,250 LUMEN LIGHT FIXTURE.
6. REMOVE AND SALVAGE EXISTING STREET LIGHT LUMINAIRE, MAST ARM, AND FOUNDATION.
7. INSTALL 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON 38'-6" POLE WITH AN 8'X8' MAST ARM PER GRAY ROADWAY POLE STANDARDS AERIAL POLE CODE 1944.38. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J-BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.
8. FIELD LOCATE EXISTING CONDUIT, SPLICE AND EXTEND TO PROPOSED LIGHT POLE PER SRP PLANS.

SALT RIVER PROJECT (SRP) NOTES

1. CONTRACTOR SHALL CALL SRP FOR A PRE-CONSTRUCTION MEETING PRIOR TO ANY EXCAVATION AT (602) 236-6300.
2. CONTRACTOR WILL SUPPLY ALL TRENCHING AND CONDUIT IF REQUESTED BY THE COP PROJECT MANAGER.
3. CONTRACTOR WILL STAKE STREET LIGHTS PER CITY OF PHOENIX APPROVED STREET LIGHT CONSTRUCTION DRAWINGS.
4. GRADE STAKE WILL BE SET WITHIN TWO (2) FEET OF J-BOX LOCATION.
5. CONTRACTOR WILL COORDINATE WITH SRP AND CITY OF PHOENIX FOR DE-ENERGIZING OF STREETLIGHT CONDUCTOR.
6. GROUND ROD WILL BE PROVIDED AND INSTALLED BY CONTRACTOR IN SRP J-BOX AT EACH STREETLIGHT LOCATION.
7. #6 BARE COPPER GROUND WIRE TO BE ATTACHED FROM GROUNDING LUG ON STREETLIGHT POLE TO GROUND ROD IN J-BOX.
8. IF THE CONTRACTOR INSTALLS THE POLE, THE BARE #6 COPPER GROUND WIRE SHALL BE CONNECTED FROM THE GROUND ROD IN THE SRP J-BOX TO THE GROUND CONNECTION IN THE POLE HAND-HOLE.
9. ALL TRENCHING AND CONDUIT TO BE INSPECTED BY SRP. DO NOT BACKFILL UNTIL INSPECTED.
10. SRP CONSTRUCTION PRINT MUST BE USED AS A TRENCHING REFERENCE. TRENCHING VARIATIONS MUST HAVE WRITTEN SRP DESIGNER APPROVAL. FOLLOW DETAILS FOR CONSTRUCTION. VARIATIONS IN TRENCH ROUTE MAY RESULT IN A REDESIGN FEE PAYABLE BY CONTRACTOR.
11. TRENCHES SHOULD BE STRAIGHT, LEVEL AND FREE OF DEBRIS. ALL TRENCH DEPTHS MEASURED FROM FINAL GRADE TOP OF CONDUIT (PER SRP DESIGN) WITHIN ALL EASEMENTS AND RIGHT OF WAY. MAINTAIN MINIMUM 6" CLEARANCE FROM WATER LINES, 19" FROM ALL GAS LINES AND 12" CLEARANCE FORM OTHER UTILITIES.
12. USE DB120 PVC FOR ALL STRAIGHT CONDUIT, 36" RADIUS SCHEDULE 40 PVC SWEEPS FOR ALL ELBOWS. NO REDUCERS ARE ALLOWED IN CONDUIT SYSTEM, NO COUPLINGS OR BELL ENDS ARE ALLOWED AT EQUIPMENT LOCATIONS. ALL CONDUITS WITHIN ROAD RIGHT OF WAY OR P.U.E. MUST BE RED.
13. RETAINING WALLS ARE REQUIRED ADJACENT TO EQUIPMENT WHERE THE GRADE SLOPE IS GREATER THAN 30" IN 12'.
14. ALL CONDUIT STUB OUTS ARE TO BE CAPPED AND MARKED WITH ELECTRONIC MARKER AND 7" RED FLAG MARKING RIBBON.
15. HARD CAPS ARE TO BE USED FOR ALL STUB OUTS BELOW GRADE.
16. A MANDREL INSPECTION IS REQUIRED WITH SRP INSPECTOR WITHIN 3 DAYS OF FINAL INSPECTION. CONTRACTOR MUST PROVIDE 2 REPRESENTATIVES, MINIMUM 125-CFM TRAILER MOUNTED COMPRESSOR AND ALL NECESSARY ATTACHMENTS.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE INTEGRITY OF ALL CONDUITS UNTIL SRP HAS INSTALLED CONDUCTORS.
18. BACKFILL REQUIREMENTS FOR A TRENCH IN OR UNDER FUTURE PAVEMENT TO BE 1 PART SLURRY MIX IN ROAD RIGHT OF WAY AND IN DIRT TO BE 1/2 SLURRY MIX AND 1/2 SLURRY MIX MAXIMUM UNDER ALL SRP EQUIPMENT.
19. SEE DUCT BANK SPECIFICATIONS FOR ALL DUCT BANK ENCASEMENT REQUIREMENTS.

QUANTITIES

ITEM NUMBER	TYPE OF STREET	QUANTITY	MOUNTING HEIGHT	POLE LENGTH	MAST ARM	APPROVED POLE & ARM MANUFACTURERS	LUMENS	TYPE	WATTAGE	VOLTAGE	LUMINAIRE STYLE	APPROVED LUMINAIRE MANUFACTURERS
1	ARTERIAL	9	32'-11"	38'-6"	20"X6'	CEM-TEC MS-1944 VALMONT CB09159 SOUTHWEST FABRICATION, LLC 386RDB	9,250	LED	97 W	120/240 AS POWER CO. REQUIRES	COBRAHEAD	GE 97W 9,250 LUMEN LUMINAIRE 97WATT, 2700K, 9,250 LUMEN, ROADWAY, LED, TERMINAL BOARD, 10KV SURGE PROTECTION, 90 DEGREE CUTOFF, GRAY, MULTIVOLT 120/208/240/277 DRIVER, IES TYPE III, ANSIC136.41 7-PIN TWISTLOCK PHOTOCONTROL RECEPTACLE, ERL1010C327AGRAY
4	ARTERIAL	21	30'-0"	9'-0"	11'-6"	CEM-TEC MS-1944 VALMONT CB09159 SOUTHWEST FABRICATION, LLC 386RDB	9,250	LED	97 W	120/240 AS POWER CO. REQUIRES	COBRAHEAD	GE 97W 9,250 LUMEN LUMINAIRE 97WATT, 2700K, 9,250 LUMEN, ROADWAY, LED, TERMINAL BOARD, 10KV SURGE PROTECTION, 90 DEGREE CUTOFF, GRAY, MULTIVOLT 120/208/240/277 DRIVER, IES TYPE III, ANSIC136.41 7-PIN TWISTLOCK PHOTOCONTROL RECEPTACLE, ERL1010C327AGRAY
7	ARTERIAL	24	39'-3"	38'-6"	8'X8'	CEM-TEC MS-1944 VALMONT CB09159 SOUTHWEST FABRICATION, LLC 386RDB	9,250	LED	97 W	120/240 AS POWER CO. REQUIRES	COBRAHEAD	GE 97W 9,250 LUMEN LUMINAIRE 97WATT, 2700K, 9,250 LUMEN, ROADWAY, LED, TERMINAL BOARD, 10KV SURGE PROTECTION, 90 DEGREE CUTOFF, GRAY, MULTIVOLT 120/208/240/277 DRIVER, IES TYPE III, ANSIC136.41 7-PIN TWISTLOCK PHOTOCONTROL RECEPTACLE, ERL1010C327AGRAY

NOTE: ALL CATALOG NUMBERS SHALL BE CONFIRMED WITH POWER COMPANY PRIOR TO ORDERING. QUANTITIES IN TABLE REFLECT THE TOTAL QUANTITY NEEDED FOR ENTIRE PROJECT. REFERENCE ESTIMATE FOR QUANTITIES REQUIRED FOR PURCHASE.

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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 50368 MICHAEL COLOMBO Date Signed 6/24/22 ARIZONA, U.S.A.

	BY	DATE
DESIGNED	D. Mara	06/2022
DRAWN	D. Mara	06/2022
CHECKED	M. Colombo	06/2022

Kimley»Horn

STREET LIGHTING NOTES

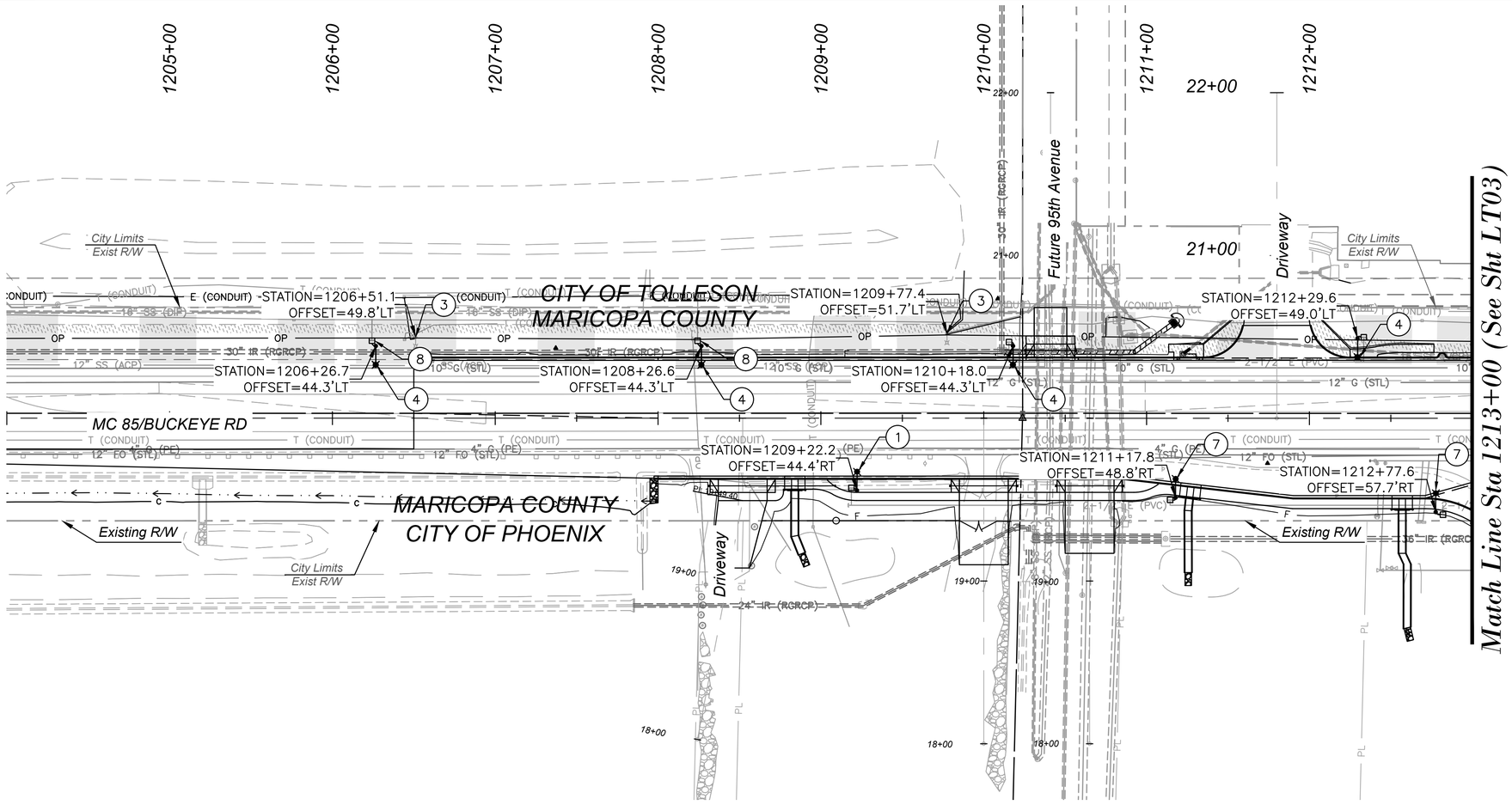
SHEET LT01OF LT07

TRACS NO. _____

Jun 24, 2022 - 10:28am Mark.Flood

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Lighting\aze1019-lt-note01.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	104	132	



STREETLIGHT NOTES

(1)	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'–6" POLE WITH AN 20"X6' MAST ARM PER GRAY ROADWAY POLE STANDARDS AERIAL POLE CODE 1944.38. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	1 Ea
(3)	EXISTING STREET LIGHT LUMINAIRE AND MAST ARM ON POWER POLE TO BE REMOVED AND PROPERLY DISPOSED OF BY SRP.	2 Ea
(4)	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL PER DETAIL A CUSTOM POLE 9' SPECIFICATIONS. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	4 Ea
(7)	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON 38'–6" POLE WITH AN 8'X8' MAST ARM PER GRAY ROADWAY POLE STANDARDS AERIAL POLE CODE 1944.38. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	2 Ea
(8)	FIELD LOCATE EXISTING CONDUIT, SPLICE AND EXTEND TO PROPOSED LIGHT POLE PER SRP PLANS.	2 Ea

SCALE:Hor: 1"=40'

40 0 40 80

SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation.

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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	D. Mara	06/2022
DRAWN	D. Mara	06/2022
CHECKED	M. Colombo	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 50368 MICHAEL COLOMBO Date Signed 6/24/22 ARIZONA, U.S.A.

Kimley»Horn

STREET LIGHTING PLANS
STA 1204+00 to STA 1213+00

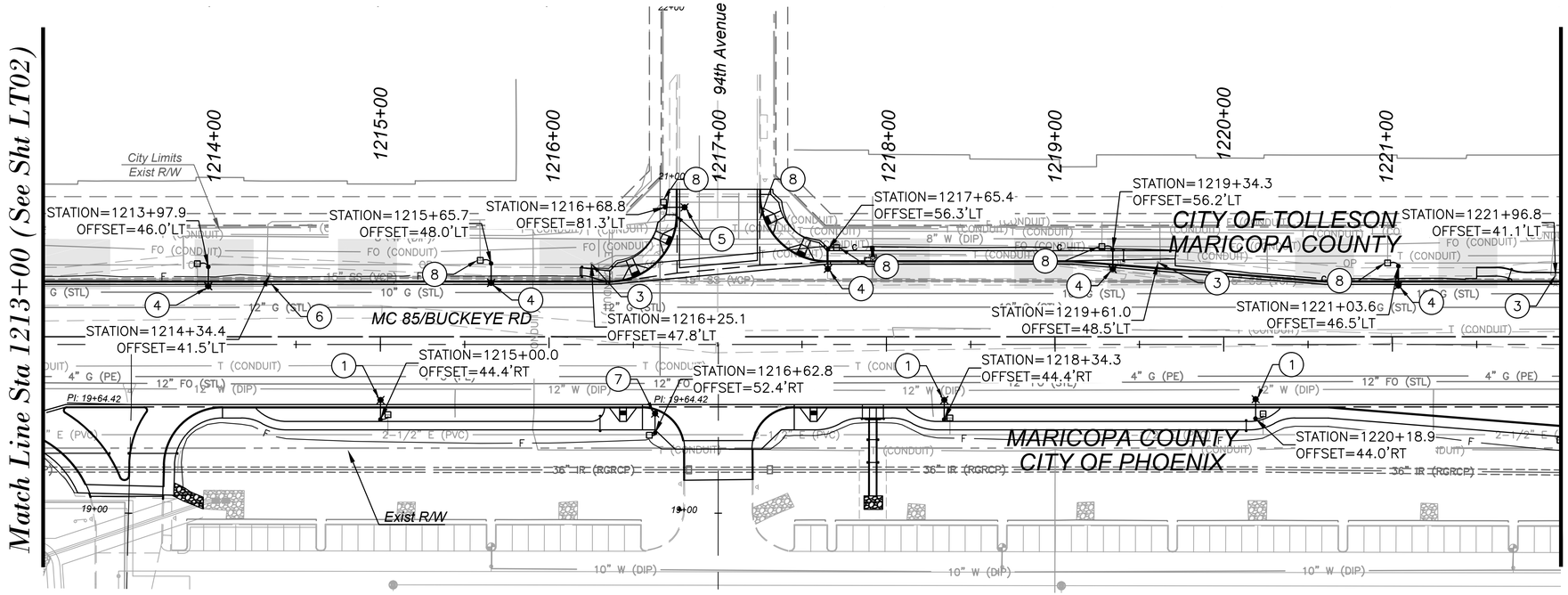
SHEET LT02 OF LT07

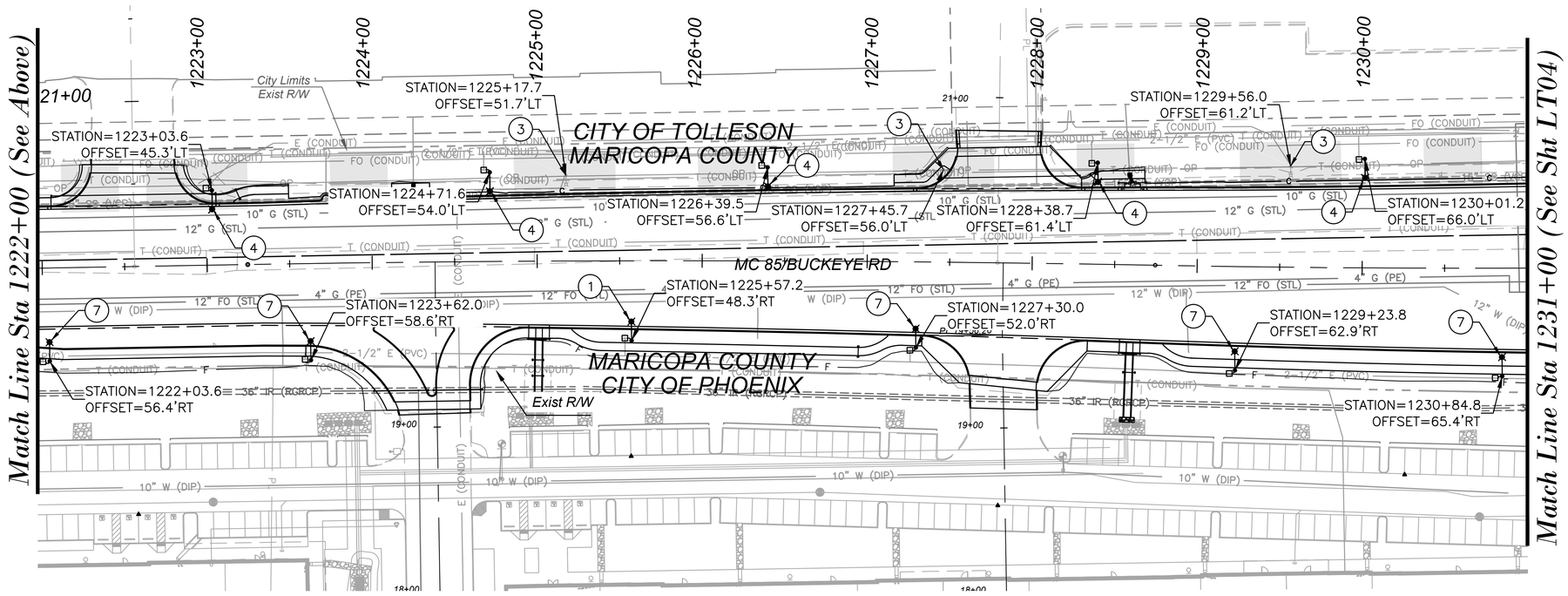
TRACS NO. _____

Jun 24, 2022 - 10:32am Mark.Flood

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Lighting\aze1019-lt-pl05.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	105	132	





STREETLIGHT NOTES

1	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'–6" POLE WITH AN 20"X6' MAST ARM PER GRAY ROADWAY POLE STANDARDS AERIAL POLE CODE 1944.38. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	4 Ea
3	EXISTING STREET LIGHT LUMINAIRE AND MAST ARM ON POWER POLE TO BE REMOVED AND PROPERLY DISPOSED OF BY SRP.	6 Ea
4	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL PER DETAIL A CUSTOM POLE 9' SPECIFICATIONS. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	10 Ea
5	RELOCATE EXISTING POLE TO NEW LOCATION. LOCATE EXISTING CONDUIT AND EXTEND TO NEW POLE LOCATION. REMOVE EXISTING HPS FIXTURE AND INSTALL NEW GE 97W 9,250 LUMEN LIGHT FIXTURE.	1 Ea
6	REMOVE AND PROPERLY DISPOSE EXISTING STREET LIGHT LUMINARIE, MAST ARM, AND FOUNDATION.	1 Ea
7	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'–6" POLE WITH AN 8'X8' MAST ARM PER GRAY ROADWAY POLE STANDARDS AERIAL POLE CODE 1944.38. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	6 Ea
8	FIELD LOCATE EXISTING CONDUIT, SPLICE AND EXTEND TO PROPOSED LIGHT POLE PER SRP PLANS.	6 Ea

SCALE:Hor: 1"=40'

40 0 40 80

SCALE IN FEET

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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	D. Mara	06/2022
DRAWN	D. Mara	06/2022
CHECKED	M. Colombo	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
50368
MICHAEL
COLOMBO
Date Signed 6/24/22
ARIZONA, USA

Kimley»Horn

STREET LIGHTING PLANS
Sta 1213+00 to Sta 1231+00

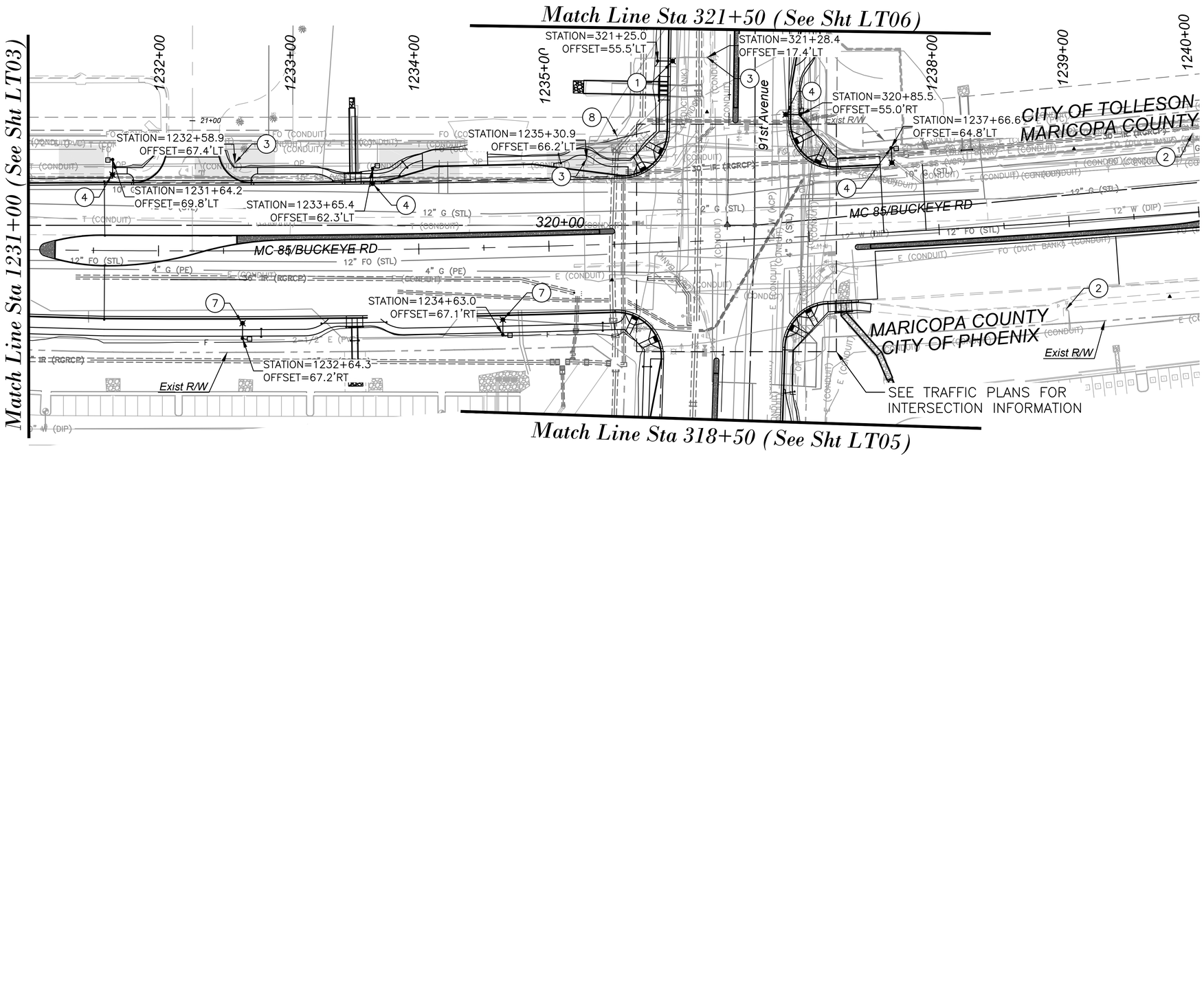
SHEET
LT03 OF LT07

TRACS NO. _____

Jun 24, 2022 - 10:36am Mark.Flood

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Lighting\aze1019-lt-pl06.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	106	132	



STREETLIGHT NOTES

(1)	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'–6" POLE WITH AN 20"X6' MAST ARM PER GRAY ROADWAY POLE STANDARDS AERIAL POLE CODE 1944.38. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	1 Ea
(2)	EXISTING STREET LIGHT POLE AND PULL BOX TO REMAIN. REPLACE LUMINAIRE WITH 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL.	2 Ea
(3)	EXISTING STREET LIGHT LUMINAIRE AND MAST ARM ON POWER POLE TO BE REMOVED AND PROPERLY DISPOSED OF BY SRP.	3 Ea
(4)	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL PER DETAIL A CUSTOM POLE 9' SPECIFICATIONS. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	4 Ea
(7)	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'–6" POLE WITH AN 8'X8' MAST ARM PER GRAY ROADWAY POLE STANDARDS AERIAL POLE CODE 1944.38. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	2 Ea
(8)	FIELD LOCATE EXISTING CONDUIT, SPLICE AND EXTEND TO PROPOSED LIGHT POLE PER SRP PLANS.	1 Ea

SCALE:Hor: 1"=40'

40 0 40 80

SCALE IN FEET

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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	D. Mara	06/2022
DRAWN	D. Mara	06/2022
CHECKED	M. Colombo	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 50368 MICHAEL COLOMBO Date Signed 6/24/22 ARIZONA, U.S.A.

Kimley»Horn

STREET LIGHTING PLANS
Sta 1231+00 to Sta 1240+00

SHEET LT04 OF LT07

TRACS NO. _____

Jun 24, 2022 - 10:40am Mark.Flood

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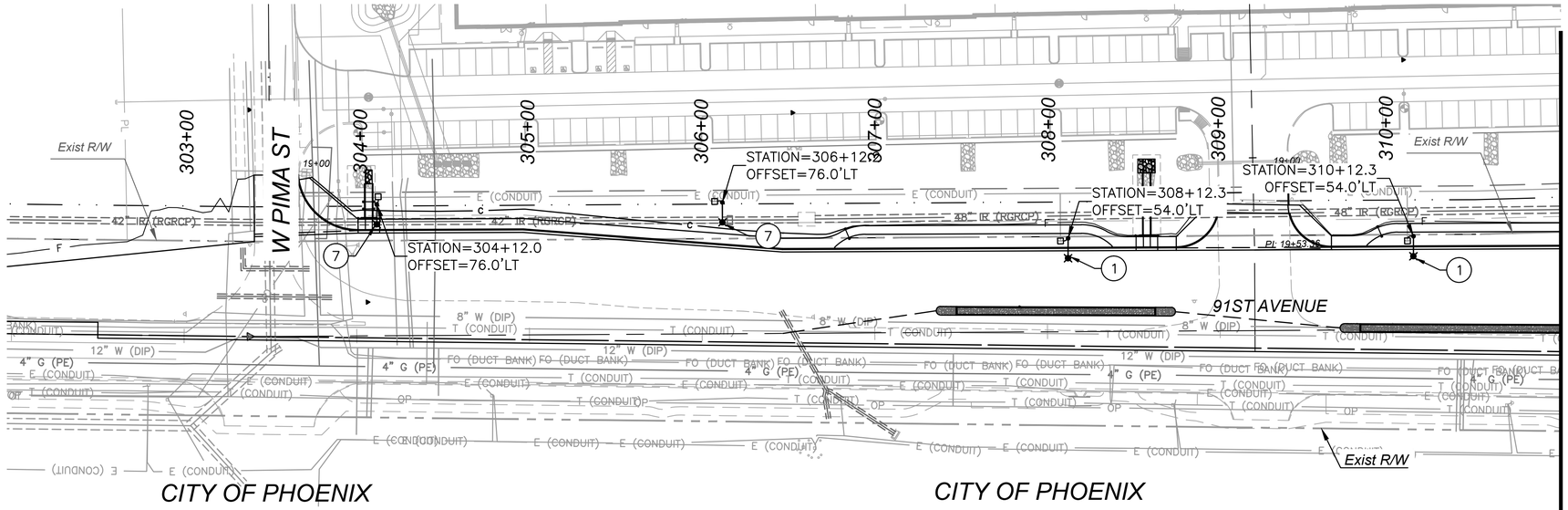
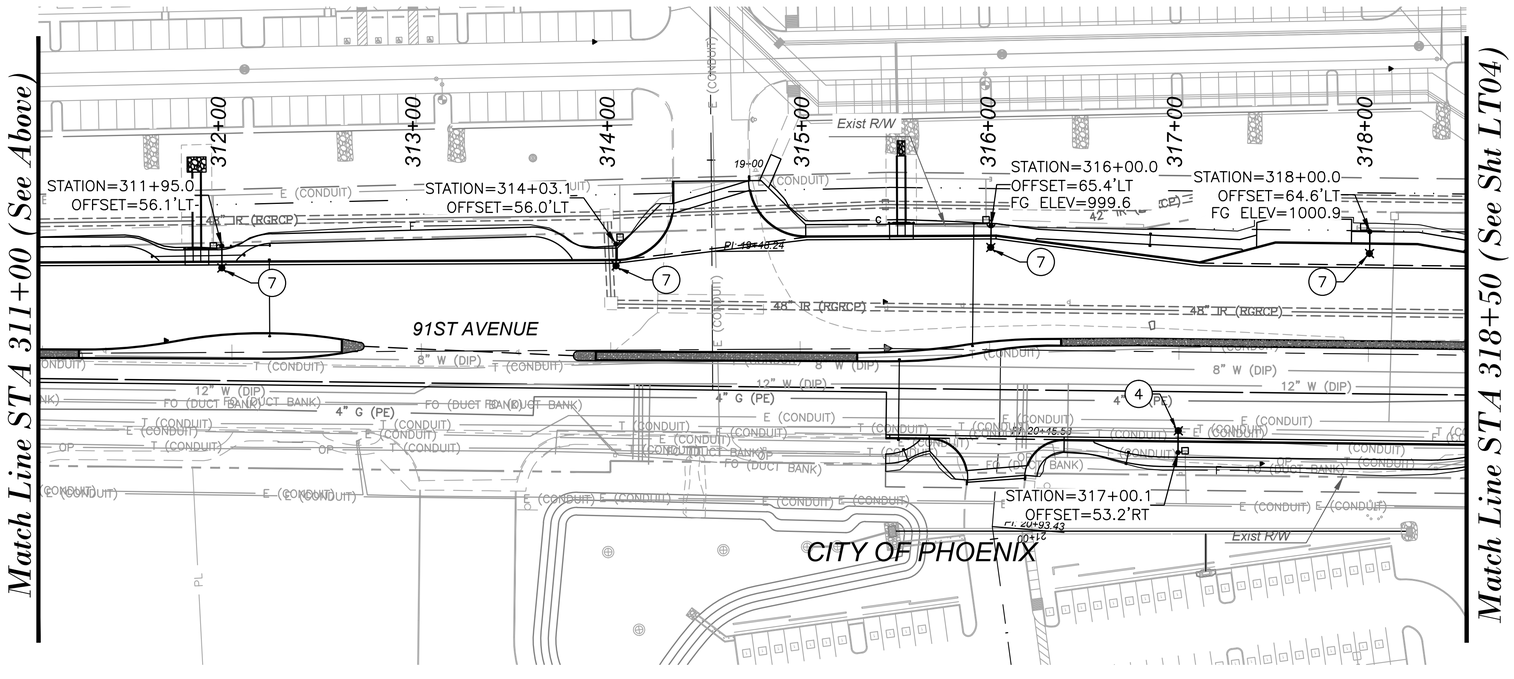
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	107	132	



Match Line STA 311+00 (See Below)

STREETLIGHT NOTES

1	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'–6" POLE WITH AN 20"X6' MAST ARM PER GRAY ROADWAY POLE STANDARDS AERIAL POLE CODE 1944.38. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS.CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	2 Ea
4	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL PER DETAIL A CUSTOM POLE 9' SPECIFICATIONS. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	1 Ea
7	INSTALL 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON 38'–6" POLE WITH AN 8'X8' MAST ARM PER GRAY ROADWAY POLE STANDARDS AERIAL POLE CODE 1944.38. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	6 Ea
8	FIELD LOCATE EXISTING CONDUIT, SPLICE AND EXTEND TO PROPOSED LIGHT POLE PER SRP PLANS.	9 Ea



Match Line STA 318+50 (See Sht LT04)

SCALE:Hor: 1"=40'

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SCALE IN FEET

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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 50368 MICHAEL COLOMBO Date Signed 6/24/22 ARIZONA, U.S.A.

	BY	DATE
DESIGNED	D. Mara	06/2022
DRAWN	D. Mara	06/2022
CHECKED	M. Colombo	06/2022

Kimley»Horn

91ST AVE STREET LIGHTING PLANS
Sta 302+00 to 318+50

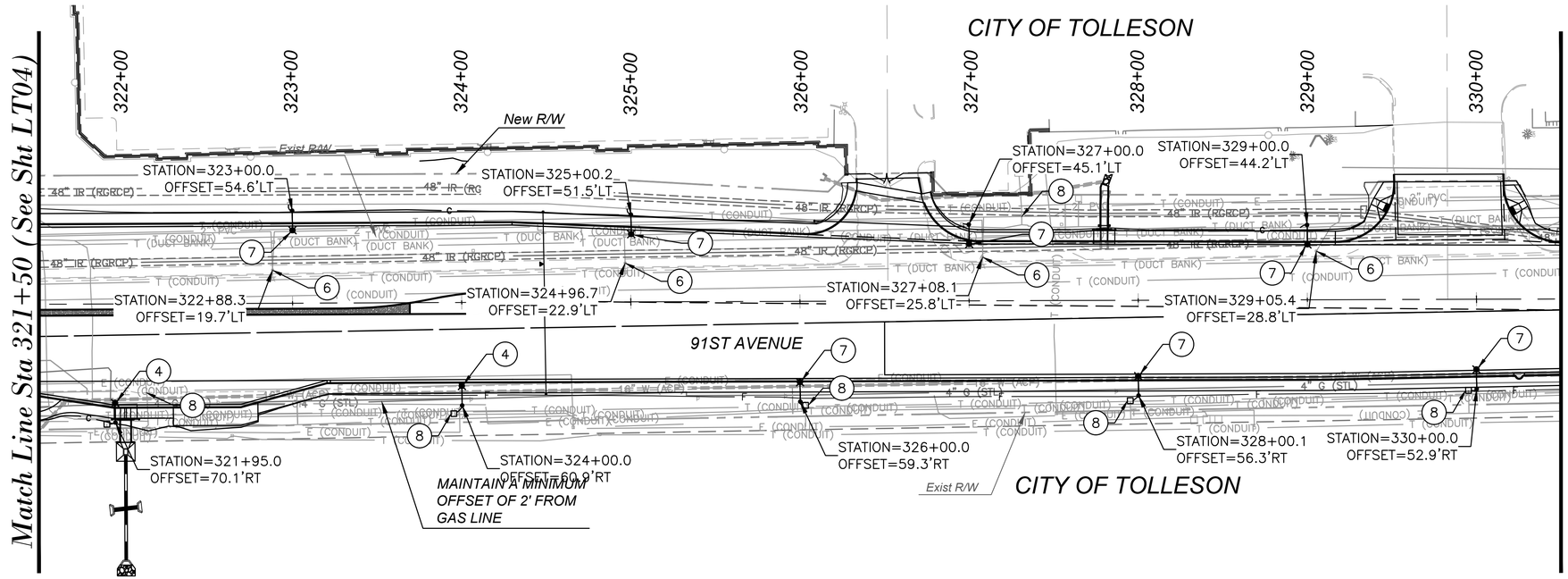
SHEET LT05 OF LT07

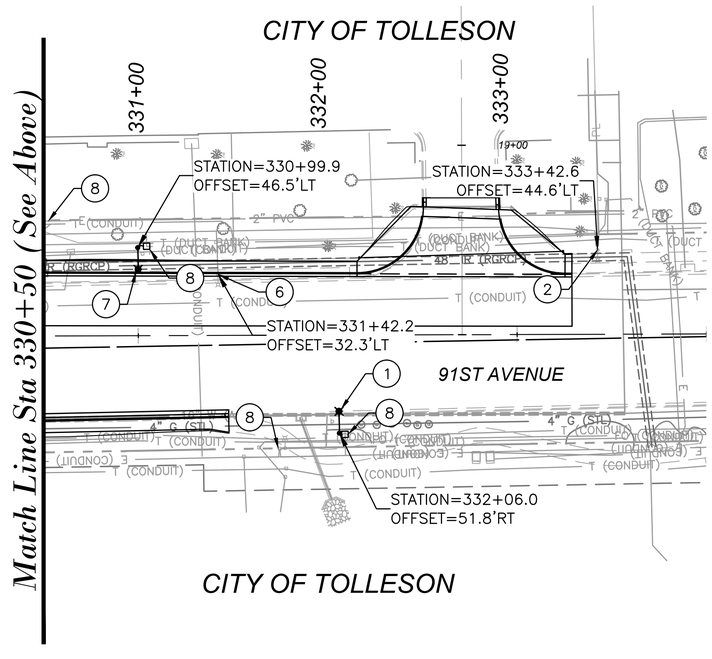
TRACS NO. _____

Jun 24, 2022 - 10:45am Mark.Flood

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Lighting\aze1019-lt-pl16.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	108	132	





STREETLIGHT NOTES

(1)	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'–6" POLE WITH AN 20"X6' MAST ARM PER GRAY ROADWAY POLE STANDARDS AERIAL POLE CODE 1944.38. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	1 Ea
(2)	EXISTING STREET LIGHT POLE AND PULL BOX TO REMAIN. REPLACE LUMINAIRE WITH 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL.	1 Ea
(4)	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL PER DETAIL A CUSTOM POLE 9' SPECIFICATIONS. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	2 Ea
(6)	REMOVE AND SALVAGE EXISTING STREET LIGHT LUMINAIRE, MAST ARM, AND FOUNDATION.	5 Ea
(7)	INSTALL 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON 38'–6" POLE WITH AN 8'X8' MAST ARM PER GRAY ROADWAY POLE STANDARDS AERIAL POLE CODE 1944.38. THE FACE OF POLE SHALL BE 1' BEHIND SIDEWALK IF SIDEWALK IS ATTACHED, OR 6' BEHIND BACK OF CURB IF SIDEWALK IS DETACHED. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER J–BOX DETAIL AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER COP DETAILS AND SRP SPECIFICATIONS. CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.	8 Ea
(8)	FIELD LOCATE EXISTING CONDUIT, SPLICE AND EXTEND TO PROPOSED LIGHT POLE PER SRP PLANS.	9 Ea

SCALE:Hor: 1"=40'

40 0 40 80

SCALE IN FEET

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or click Arizona811.com

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	D. Mara	06/2022
DRAWN	D. Mara	06/2022
CHECKED	M. Colombo	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 50368 MICHAEL COLOMBO Date Signed 6/24/22 ARIZONA, U.S.A.

Kimley»Horn

91ST AVE STREET LIGHTING PLANS
Sta 321+50 to 334+00

SHEET LT06 OF LT07

TRACS NO. _____

Jun 24, 2022 - 10:49am Mark.Flood

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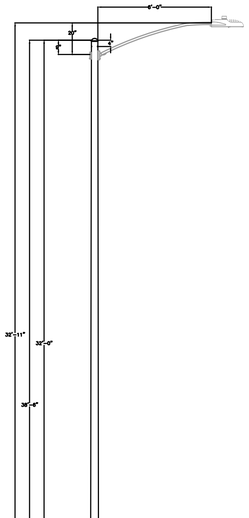
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	109	132	



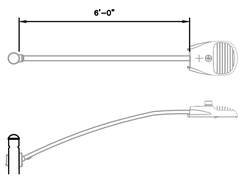
1944.38X

19 = 19' - 0" POLE SNG SIMPLEX
30 = 30' - 6" POLE SNG SIMPLEX
38 = 38' - 6" POLE SNG SIMPLEX
38X = 38' - 6" POLE DBL SIMPLEX
** SEE SPEC. NOTE

**HANDHOLE HEIGHT MAY VARY, NOT TO BE LESS THAN 42".

BURY AN ADDITIONAL 5' IF STREET LIGHT POLE IS WITHIN 4' OF A WATERLINE.

GRAY ROADWAY POLE STANDARDS
1/4"=1'-0"



GRAY ROADWAY POLE LUMINAIRES
3/8"=1'-0"

CONSTRUCTION NOTES:

1 **ADJUST PHOTO EYE TO FACE NORTH**

2 **A GROUND ROD IS PROVIDED WITH THE JUNCTION BOX. WHERE A GROUND ROD CANNOT BE DRIVEN ALTERNATE GROUND SHALL BE USED. SEE 2449 THRU 2460 FOR APPROVED ALTERNATES.**

3 **THE 40'-6" SELF-SUPPORTING STEEL POLE AND ONE OF THE 38'-0", HAVE TWO, MANUFACTURED INSTALLED SIMPLEX FITINGS 180 APART FOR DOUBLE ARMS, SEE CHART.**

4 **APN 33701054 IS A POLE BAND ADAPTOR WITH A SIMPLEX FITTING. ADAPTOR IS REQUIRED FOR THE SECOND ARM IN DOUBLE ARM APPLICATIONS ON EXISTING PLES IN THE FIELD WITHOUT TWO SIMPLEX FITTINGS. SEE 8198 FOR AVAILABLE SIZES.**

5 **POLES THAT HAVE MORE THAN ONE LUMINAIRE REQUIRE A SEPARATE CIRCUIT WITH FUSING FROM THE J-BOX TO EACH LUMINAIRE.**

ENGINEERING NOTES:

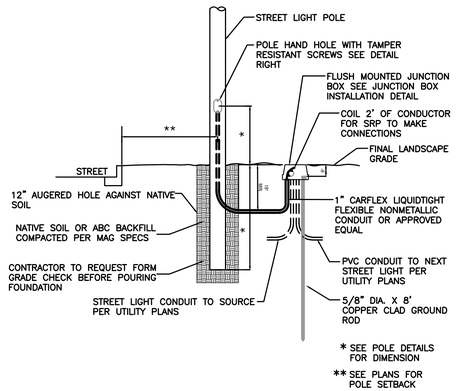
A **THE LIGHT CODE PROVIDES TWO SAME WATTAGE LUMINAIRES WHEN DOUBLE ARM ARE SPECIFIED.**

B **SEE SPEC 8130 - 8131 FOR IN-LINE FUSE FOR UNDERGROUND FEEDS.**

C **SEE 8100 THRU 8107 FOR OVERHEAD ATTACHMENTS.**

LIGHT CODE	COLOR	APN	TYPE	WATTS	VOLTS	INITIAL LUMENS	PHOTOMETRIC CURVE
CL60	GRAY	00128329	LED	45	120/208/240/277	4,100	454669
CL61		00128330		60	120/208/240/277	5,100	454659
CL62		00128331		95	120/208/240/277	8,200	454677
CL63		00128332		113	120/280/240/277	10,000	454688
CL64		00128364		257	120/280/240/277	19,200	454942

POLE TYPE	POLE CODE	POLE LENGTH	BURY DEPTH	POLE ABOVE GROUND	POLE BUTT DIAMETER			LUMINAIRE HEIGHT ABOVE GROUND ON ARM		
					STEP	TAPER	WEIGHT	20" X 6'	3' X 8'	8' X 8'
LOCAL	1944.30	30' - 6"	5' - 6"	25' - 0"	5-9/16"	7-5/16"	460	25' - 11"	27' - 3"	-
COLLECTOR	1944.38	38' - 6"	6' - 6"	32' - 0"	6-5/8"	9-3/4"	640	32' - 11"	34' - 3"	39' - 3"
ARTERIAL	1944.38X	38' - 6"	6' - 6"	32' - 0"	6-5/8"	9-3/4"	640	32' - 11"	34' - 3"	39' - 3"
**FOR NON-STANDARD POLES, CONTACT THE STREET TRANSPORTATION STREETLIGHTING SECTION FOR INFORMATION.										



POLE HAND HOLE FUSING DETAIL
3/16"=1'-0"

ELECTRICAL REQUIREMENTS FOR NEW POLE INSTALLATION

1. JUNCTION BOXES SHALL MEET UTILITY COMPANY STANDARDS.
2. CONDUIT, CONDUCTORS, AND FUSE HOLDERS SHALL BE LISTED AND LABELED FOR USE IN A WET LOCATION WHEN USED IN A JUNCTION BOX. NEC300.5(B), 310.8(C)
3. IN-LINE FUSE HOLDER USED IN HAND HOLE OR SERVICE DROP SHALL BE CONSIDERED AS DISCONNECTING MEANS. FUSE HOLDERS TO BE RATED AT 22,000 AIC MINIMUM. NEC 240.40
4. ELECTRICAL CONNECTIONS-CONDUCTORS OF DISSIMILAR METALS SHALL NOT BE INTERMIXED IN A TERMINAL OR SPLICING CONNECTOR WHERE PHYSICAL CONTACT OCCURS BETWEEN DISSIMILAR CONDUCTORS, (COPPER, ALUMINUM) UNLESS THE DEVICE IS IDENTIFIED FOR THE PURPOSE AND CONDITIONS OF USE. NEC 110.14
5. ELECTRICAL CONNECTIONS OR SPLICES IN AN UNDERGROUND INSTALLATION SHALL BE APPROVED FOR WET LOCATIONS. (NEC 300.5)
6. NON-CURRENT CARRYING CONDUCTIVE MATERIALS ENCLOSING ELECTRICAL CONDUCTORS OR EQUIPMENT, OR FORMING PART OF SUCH EQUIPMENT, SHALL BE CONNECTED TO EARTH IN A MANNER THAT WILL LIMIT THE VOLTAGE IMPOSED BY LIGHTNING OR UNINTENTIONAL VOLTAGE DUE TO SHORT CIRCUITS AND LIMIT THE VOLTAGE TO GROUND ON THESE MATERIALS. NEC 250.4(B) (GROUND RODS)
7. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED FROM THE GROUND LUG IN THE HAND-HOLE TO THE LUMINAIRE WITH THE CURRENT CARRYING CONDUCTORS. NEC 410.30(B)(3).
8. CONNECTION TO THE GROUND ROD AND THE GROUNDING ELECTRODE SHALL BE LISTED AND LABELED FOR USE. NEC 250.8
9. CONNECT #6 BARE COPPER WIRE FROM THE GROUND ROD ADJACENT TO THE POLE OR IN JUNCTION BOX TO THE GROUND LUG IN THE POLE.

CONSTRUCTION NOTES:

1 ADJUST PHOTO EYE TO FACE NORTH

2 A GROUND ROD IS PROVIDED WITH THE JUNCTION BOX. WHERE A GROUND ROD CANNOT BE DRIVEN ALTERNATE GROUND SHALL BE USED. SEE 2449THRU 2460 FOR APPROVED ALTERNATES.

3 THE 40'-6" SELF-SUPPORTING STEEL POLE AND ONE OF THE 38'-0", HAVE TWO, MANUFACTURED INSTALLED SIMPLEX FITINGS 180 APART FOR DOUBLE ARMS,SEE CHART.

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ENGINEERING NOTES:

A THE LIGHT CODE PROVIDES TWO SAME WATTAGE LUMINAIRES WHEN DOUBLE ARM ARE SPECIFIED.

B SEE SPEC 8130 - 8131 FOR IN-LINE FUSE FOR UNDERGROUND FEEDS.

C SEE 8100 THRU 8107 FOR OVERHEAD ATTACHMENTS.

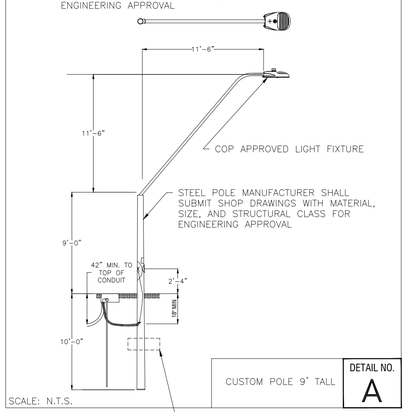
20 YEAR PHOTOCELL REQUIREMENTS

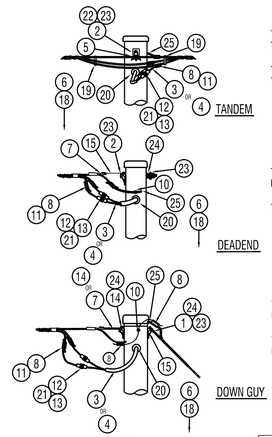
APN# 00073241 CONTROL PHOTO MULTI BR-20 CONTROL, PHOTO-ELECTRIC, BROWN, 20YEAR FAIL OFF, 120/208/240/277 MULTI-VOLT, SILICON, SOLID STATE, 2.40 TO 3.60 FC ON 1.2 TO 2.4 FC OFF, 60 HERTZ, 320 JOULE MOV, INVERSE ON/OFF RATIO .6:1 +/- .1, FAIL OFF, THREE PIN NEMA TWISTLOCK, 20 YEAR LIFE, 8483-SIDE SELC, MODEL #8483F21MABR

CONSTRUCTION NOTES:

1 CONTRACTOR SHALL POTHOLE ALL LIGHT LOCATIONS FOR ANY CONFLICTS

2 WHERE UNDERGROUND CONFLICTS ARE IDENTIFIED CONTRACTOR SHALL PROVIDE SPREAD FOOTING. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH MATERIAL, SIZE, AND STRUCTURAL CLASS FOR ENGINEERING APPROVAL

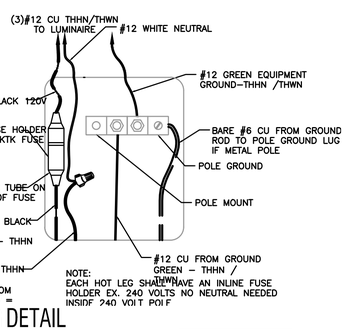




CODE	8100	8101	8102	8103	8106	8107	DETAIL A	MATERIAL LIST	
ITEM	QTY	QTY	QTY	QTY	QTY	QTY	QTY	DESCRIPTION	APN
1	-	-	-	-	1	1	-	BOLT GALV MACH 5/8" X 10"	33001549
2	1	1	1	1	1	-	-	BOLT GALV MACH 5/8" X 8"	33001547
3	10	-	10	-	10	-	-	CABLE 2/C #14CU UF	31102132
4	-	10	-	10	-	10	-	CABLE 3/C #14CU UF	31102135
5	1	1	1	-	-	-	-	CLAMP ANGLE .162 TO .60	33002502
6	1	1	1	1	1	1	-	CLAMP GROUND ROD 5/8"	33002580
7	-	-	1	1	-	-	-	CLAMP WEDGE FELX 4-2AL	33002772
8	2	3	2	3	4	2	-	CONN AL PG - SEE 2252	
9	-	-	-	-	1	1	-	CONN CU "C" - SEE 2255	
10	1	1	1	1	1	1	-	CONN POST 1/2"S SS #6-1/0	00095704
11	1	2	1	2	1	2	-	COVER D DIE INSULATING	33003192
12	1	2	1	2	1	2	-	FUSE CARTRIDGE 15A	72602410
13	1	2	1	2	1	2	-	FUSEHOLDER IN-LINE 600V	00097502
14	-	-	-	-	1	1	-	GRIP DE PREF - SEE2135	
15	-	-	1	1	2	2	-	HOOK GUY - MED DUTY 5/8"	33003831
16	1	1	1	1	1	1	-	NUT INSERT RIVNUT	00055552
17	-	-	-	-	-	1	-	NUT SQ GALV 5/8"	33004176
18	1	1	1	1	1	1	-	ROD COPPERCLAD GRD 5/8" X 8"	33004805
19	2	2	-	-	-	-	-	SPACER MULTIPLEX CABLE	33006510
20	1	1	1	1	1	-	-	STOPPER BUG AND DUST	33806955
21	1	1	1	1	1	1	-	TUBING SHRINKABLE 1/4	71606200
22	2	2	2	2	-	-	-	WASHER GALV CU 3X3X1/4"	33007126
23	1	1	1	1	1	1	1	WASHER GALV DBL COIL 5/8"	33007154
24	-	-	-	-	-	-	2	WASHER GALV RD 5/8"	33007185
25	2	2	2	2	2	2	-	WIRE BARE #6 SOLID CU	33007580

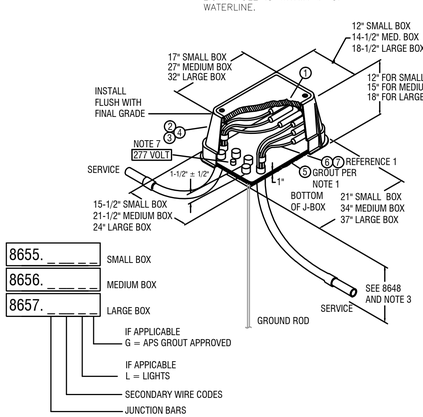
NOTES:
1. STEEL POLES AND ALL MAST ARMS MUST BE GROUNDED.
2. OVERHEAD ATTACHMENTS MUST BE GROUNDED TO THE STREET LIGHT POLE. A 13/16" HOLE HAS BEEN ADDED 6" BELOW TOP OF STREET LIGHT POLE TO INSTALL A GROUNDING INSERT APN 00055552. TOOL TO INSTALL RIVNUT IS APN 00053279. SEE STANDARD 2408. WHERE RIVNUTS ARE NOT AVAILABLE GROUND PER DETAIL A.
3. ALL OVERHEAD FED STREET IGHT POLES SHALL HAVE A GROUND ROD INSTALLED AND A #6 GROUND WIRE BONDED TO THE GROUNDING LUG AT THE BACK OF THE HAND HOLE.
4. THESE CODES PROVIDE THE #14 CU FOR THE MAST ARMS., HARDWARE FOR ATTACHING TANGENT OR DEADEND SECONDARY, AND THE CONNECTORS.

STREET LIGHT POLE CABLE ATTACHMENTS AND GROUNDING DETAIL
1/2"=1'-0"



GROUNDING DETAIL
3/16"=1'-0"

CODE	JUNCTION BARS
A	THREE-POSITION MOLDS
B	FIVE-POSITION MOLDS
C	EIGHT-POSITION MOLDS
D	TWO-POSITION GEL PACKS
N	NO CONNECTORS



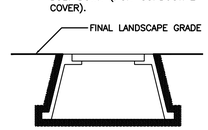
J-BOX DETAIL
1/4"=1'-0"

NOTES:
1. CONCRETE GROUT SHALL BE PREMIX, APN 71301280 OR EQUIVALENT.
2. PENTA-HEAD BOLTS SHALL BE INSTALLED PRIOR TO ENERGIZING NEW UNDERGROUND SYSTEMS. LOST OR MISPLACED PENTA-HEAD BOLTS SHALL BE REPLACED WITH APN 71402608.
3. BRINGING ALL CABLE/CONDUITS AND GROUND ROD INTO THE SAME END OF THE BOX TO ENABLE CABLES TO BE RAISED AND LOWERED EASILY. CONDUIT SWEEPS SHALL BE POSITIONED AND ALIGNED SO THAT WHEN TWO AND FOUR POSITION JUNCTION BARS ARE SPECIFIED, THE ST. LT., SECONDARY AND SERVICE CONDUITS SHALL BE INSTALLED AS SHOWN IN DETAIL "A". WHEN SIX POSITION JUNCTION BARS ARE SPECIFIED, THE ST. LT., SECONDARY AND SERVICE CONDUITS SHALL BE INSTALLED AS SHOWN IN DETAIL "B".
4. COMPACTION BENEATH AND AROUND JUNCTION BOX SHALL BE A MINIMUM OF 85 PERCENT.
5. REPLACEMENT LID FOR MEDIUM PLASTIC JUNCTION BOX IS 33100981. PENTAHEAD BOLTS AND EMS MARKER MUST BE REUSED FROM OLD LID.
6. ADDITIONAL TRENCH DEPTH IS USUALLY REQUIRED AT ALL EQUIPMENT LOCATIONS. SEE 8648 FOR THE MINIMUM TRENCH DEPTHS AND THE DEGREE OF SLOPE ALLOWED AS THE TRENCH DEPTH CHANGES.
7. ON 277 VOLT STREET LIGHT CIRCUITS, INSTALL "277 VOLT" RED MICARTA TAG (APN 00080796) PROVIDED BY SPEC 8129.
8. TORQUE BOLTS TO 5 FT - LBS (60 IN - LBS).

DESCRIPTION
15" X 21" X 12" JUNCTION BOX WITH 3/8" CAPTIVE PENTA HEAD BOLTS

WORD "ELECTRIC" ON COVER

BOX TO BE POLYMER CONCRETE MATERIAL WITH POLYMER CONCRETE BOLT DOWN (NON-CONDUCTIVE COVER).



SRP APPROVED SUPPLIERS	PART NUMBER
STRONGWELL BOX	PC1118B513
PC1118C504-17/UH0390AA COVER WITH ELECTRIC	
ARMORCAST PRODUCTS	6001429A
CDR SYSTEMS	PA40-1015-12
CARSON & ASSOCIATES BOX	HLW1118-12
	HLW1118-PO LID

J-BOX SECTION
3/8"=1'-0"

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

NO.	REVISION	BY	DATE
4			
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) 50368 MICHAEL COLOMBO Date Signed 6/24/22 ARIZONA, USA

	BY	DATE
DESIGNED	D. Mara	06/2022
DRAWN	D. Mara	06/2022
CHECKED	M. Colombo	06/2022

Kimley»Horn

STREET LIGHTING PLAN DETAIL SHEET

SHEET LT07 OF LT07

TRACS NO. _____

Jun 24, 2022 - 10:50am
Mark.Flood
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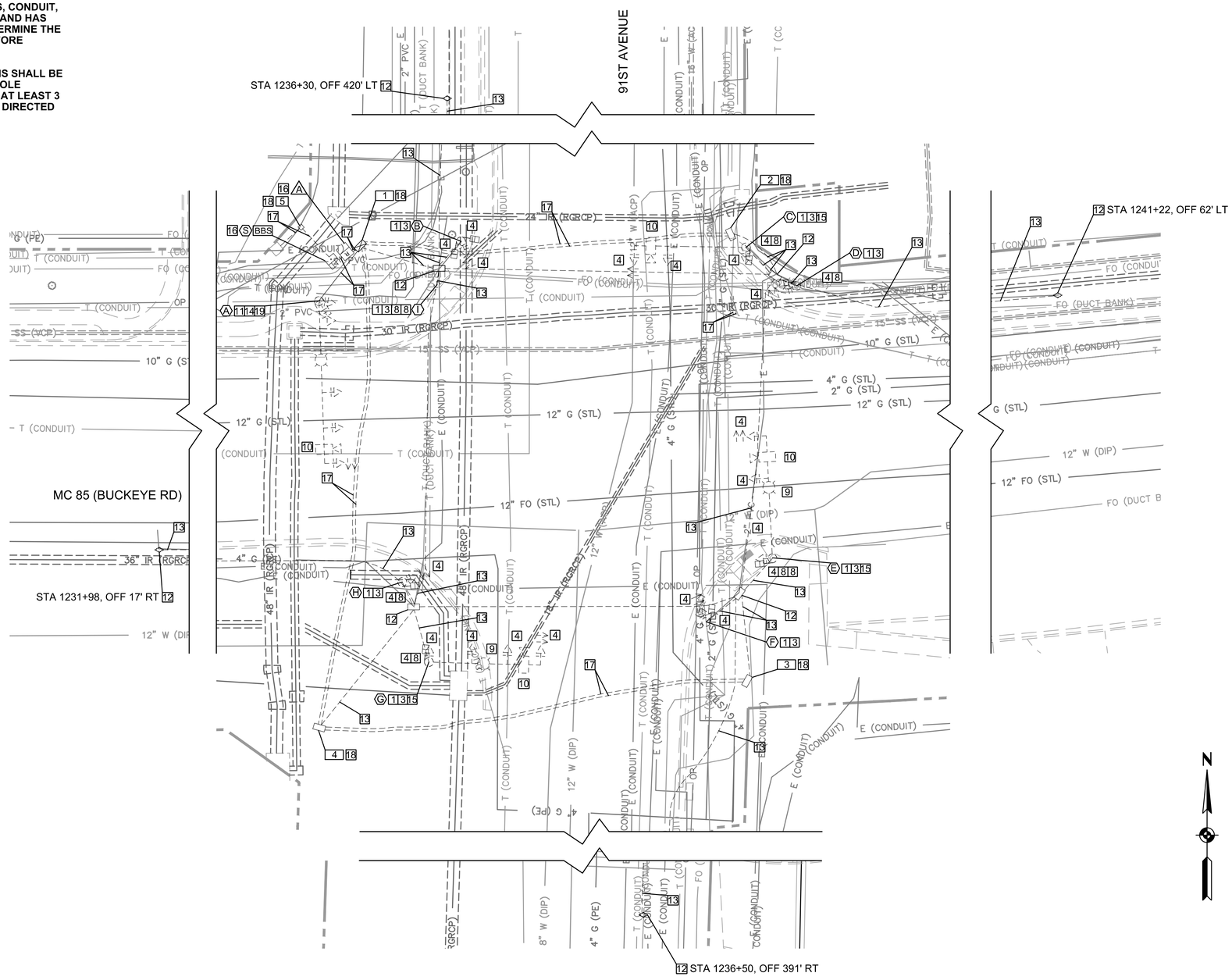
NOTE:

1. **EXISTING SIGNALS SHALL REMAIN ACTIVE UNTIL THE SWITCH OVER TO NEW SIGNALS**
2. **THE INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE AND LOCATION OF EXISTING PULL BOXES, CONDUIT, AND TRAFFIC SIGNAL EQUIPMENT IS APPROXIMATE AND HAS NOT BEEN VERIFIED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING EQUIPMENT BEFORE COMMENCING WORK.**
3. **TRAFFIC SIGNAL A POLE AND PB POLE FOUNDATIONS SHALL BE REMOVED ENTIRELY. ALL OTHER TRAFFIC SIGNAL POLE FOUNDATIONS SHALL BE REMOVED TO A DEPTH OF AT LEAST 3 FEET BELOW FINISHED GRADE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.**



LEGEND

- NO. 3½ PULL BOX
- NO. 5 PULL BOX
- NO. 5 PULL BOX W/EXTENSION
- NO. 7 PULL BOX
- NO. 7 PULL BOX W/EXTENSION
- SERVICE PEDESTAL CABINET
- EXISTING SERVICE PEDESTAL CABINET
- SERVICE PEDESTAL AND BATTERY BACK-UP SYSTEM CABINET
- EXISTING BATTERY BACK-UP CABINET
- EXISTING TRAFFIC SIGNAL CABINET
- "R" CABINET FOUNDATION w/CABINET PAD
- CONDUIT RUN
- MCDOT SIGNAL POLE
- VIDEO DETECTION OR CCTV CAMERA
- EXISTING VIDEO DETECTION OR CCTV CAMERA
- EXISTING WIRELESS ANTENNA
- TRAFFIC SIGNAL HEAD TYPE F
- EXISTING TRAFFIC SIGNAL HEAD TYPE F
- TRAFFIC SIGNAL HEAD TYPE Q
- PEDESTRIAN SIGNAL HEAD
- EXISTING PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON W/SIGN
- MCDOT LUMINAIRE ON MAST ARM
- E, J OR K POLE WITH MAST ARM AND TRAFFIC SIGNAL
- F, Q OR R POLE WITH MAST ARMS FOR A LUMINAIRE AND TRAFFIC SIGNAL
- EXISTING F, Q OR R POLE WITH MAST ARMS FOR A LUMINAIRE AND TRAFFIC SIGNAL
- CONDUIT RUN NUMBER CALL OUT
- SIGNAL POLE LETTER CALL OUT
- CABINET FOUNDATION CALL OUT
- SERVICE PEDESTAL AND BATTERY BACKUP SYSTEM FOUNDATION CALL OUT
- NO. 3½ PULL BOX CALL OUT
- NO. 5 PULL BOX CALL OUT
- NO. 7 PULL BOX CALL OUT
- VEHICLE MOVEMENT
- PEDESTRIAN MOVEMENT

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	110	132	

☐ REMOVAL/RELOCATE ☐

1	REMOVE POLE FOUNDATION (SEE NOTE 3)	8 - EA
2	REMOVE CABINET FOUNDATION	N/A
3	REMOVE POLE AND MAST ARM (INCLUDES PEDESTRIAN PUSH BUTTON POSTS)	8 - EA
4	REMOVE SIGNAL AND PEDESTRIAN INDICATIONS	22 - EA
5	REMOVE AND SALVAGE CONTROL CABINET	N/A
6	REMOVE AND SALVAGE BATTERY BACKUP SYSTEM CABINET	N/A
7	REMOVE AND SALVAGE SERVICE PEDESTAL CABINET	N/A
8	REMOVE PEDESTRIAN PUSH BUTTON STATION WITH SIGN	8 - EA
9	REMOVE LUMINAIRE LIGHT FIXTURE AND MAST ARM	2 - EA
10	REMOVE AND SALVAGE VIDEO DETECTION SYSTEM (4-CAMERA)	1 - EA
11	REMOVE AND SALVAGE WIRELESS ANTENNA	1 - EA
12	REMOVE PULL BOX	8 - EA
13	REMOVE CONDUCTORS AND ABANDON CONDUIT	LUMP SUM
14	PROTECT CCTV CAMERA IN PLACE	
15	REMOVE AND SALVAGE STREET NAME SIGN	3 - EA
16	PROTECT CABINET IN PLACE	
17	PROTECT TRAFFIC SIGNAL CONDUIT IN PLACE	
18	PROTECT PULL BOX IN PLACE	
19	PROTECT POLE, MAST ARM, AND SIGNAL HEADS IN PLACE	

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	R. Grano	06/2022
DRAWN	R. Grano	06/2022
CHECKED	T. Swanson	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 59794 TAYLOR SWANSON Date Signed 06/17/22 ARIZONA, U.S.A.

Kimley»Horn

MC 85 & 91ST AVE SIGNAL PLAN REMOVALS

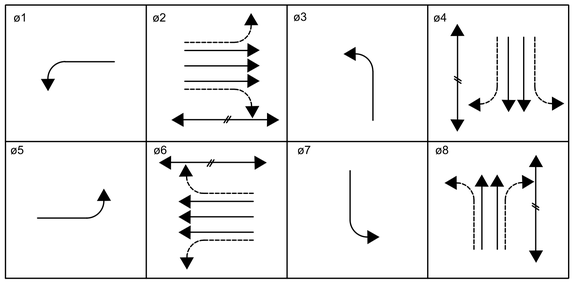
SHEET SG010F SG03

TRACS NO. _____

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

Plot Time: 10:44:18pm
Plot Date: 6/15/2022
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signal Plan & Removal 05.dwg

PHASE DIAGRAM

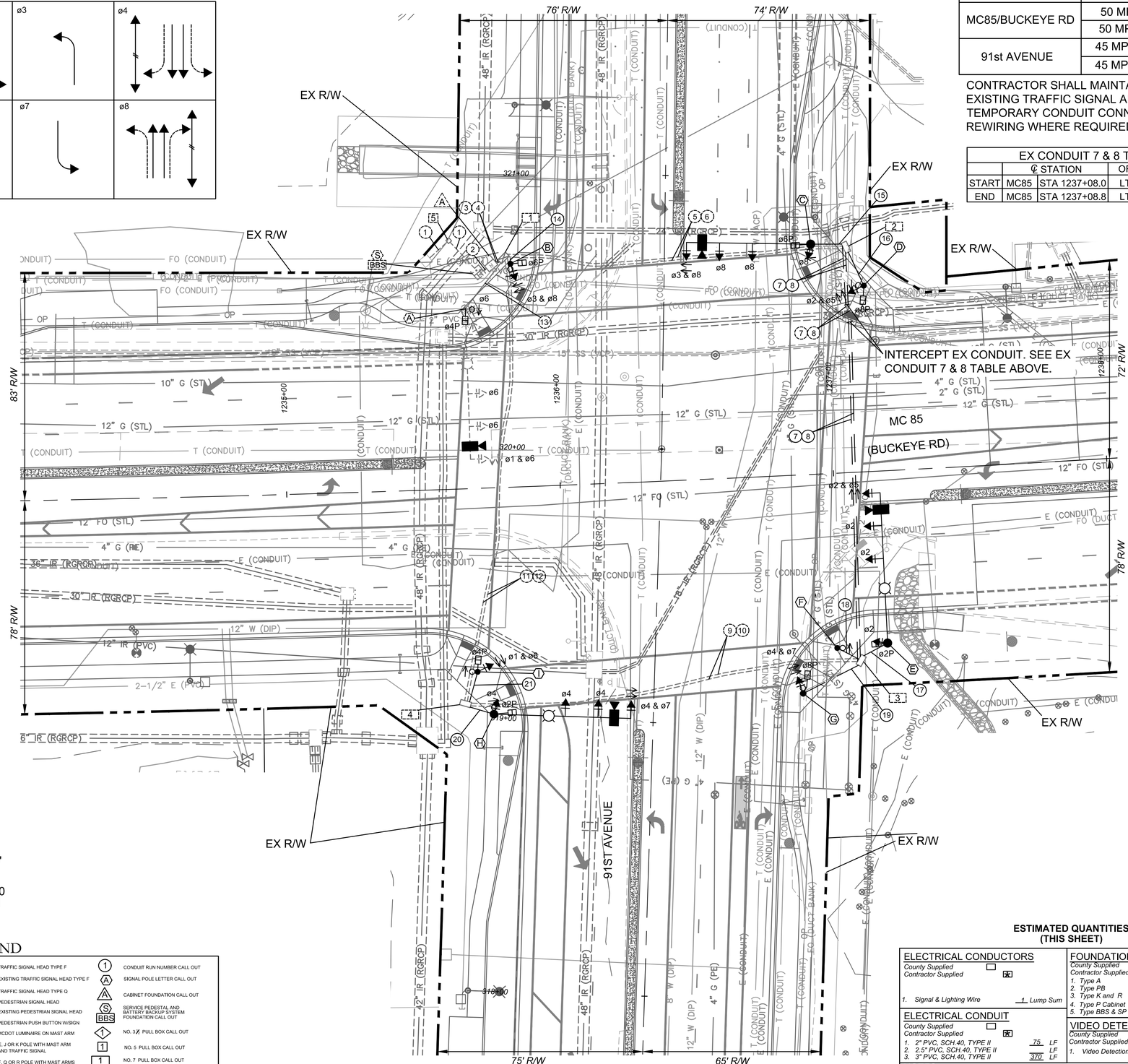


STREET NAME	POSTED SPEED LIMIT
MC85/BUCKEYE RD	50 MPH (EAST LEG)
	50 MPH (WEST LEG)
91st AVENUE	45 MPH (SOUTH LEG)
	45 MPH (NORTH LEG)

CONTRACTOR SHALL MAINTAIN OPERATION OF EXISTING TRAFFIC SIGNAL AND PROVIDE TEMPORARY CONDUIT CONNECTIONS AND REWIRING WHERE REQUIRED.

EX CONDUIT 7 & 8 TABLE			
	℄ STATION	OFFSET	ELEVATION
START	MC85 STA 1237+08.0	LT. 61.3'	994.01
END	MC85 STA 1237+08.8	LT. 55.0'	994.05

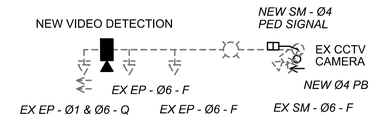
NOTES:
1. **EXISTING SIGNALS SHALL REMAIN ACTIVE UNTIL THE SWITCH OVER TO NEW OR TEMPORARY SIGNALS.**
2. **ALL CONDUCTORS AND WIRING FOR ITS EQUIPMENT SHALL BE CONTINUOUS FROM THE DEVICE TO THE CONTROLLER CABINET.**
3. **CONTRACTOR TO REQUEST FORM GRADE CHECK BEFORE POURING FOUNDATION.**



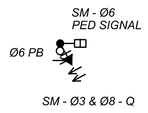
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	112	132	

POLE SCHEDULE & LOCATION

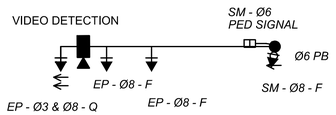
A — TYPE *R-55* EXISTING



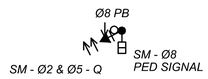
B — TYPE *A-16'* STA *1235+85 82'LT*



C — TYPE *K-45* STA *1236+96 85'LT*

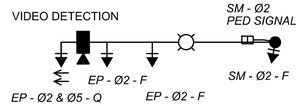


D — TYPE *A-16'* STA *1237+15 68'LT*



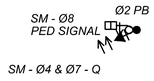
E — TYPE *R-55* STA *1237+17 63'RT*

250W EQ/LED LUMINAIRE W/ 20' MA



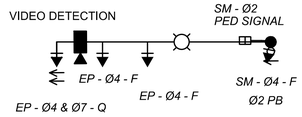
F — TYPE *PB* STA *1236+98 64'RT*

G — TYPE *A-16'* STA *1236+85 80'RT*

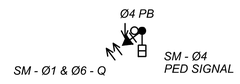


H — TYPE *R-50* STA *1235+73 83'RT*

250W EQ/LED LUMINAIRE W/ 20' MA



I — TYPE *A-16'* STA *1235+67 67'RT*



ABBREVIATIONS

EP = ELEVATED PLUMBIZER SIGNAL INDICATION MOUNTING (TYPE II)
SM = SIDE MOUNT SIGNAL INDICATION MOUNTING (TYPE XI)
PED = PEDESTRIAN INDICATION (TYPE XI)
PB = PEDESTRIAN PUSH BUTTON
EX = EXISTING EQUIPMENT

EXISTING CONTROLLER CABINET ASSEMBLY			
[R]	CABINET TYPE: R-77	NEMA ASSEMBLY CONFIGURATION: TS 2 TYPE 1	
REMARK: 1) P.E.C. MOUNTED ON CABINET TOP			

EXISTING ELECTRICAL POWER SERVICE			
UTILITY CO.: SRP	SERVICE HOOK-UP TYPE: 5	METERED	X
		UNMETERED	

ELECTRICAL POWER SERVICE ADDRESS:
9102 W. BUCKEYE RD., TS
TOLLESON, AZ 85323

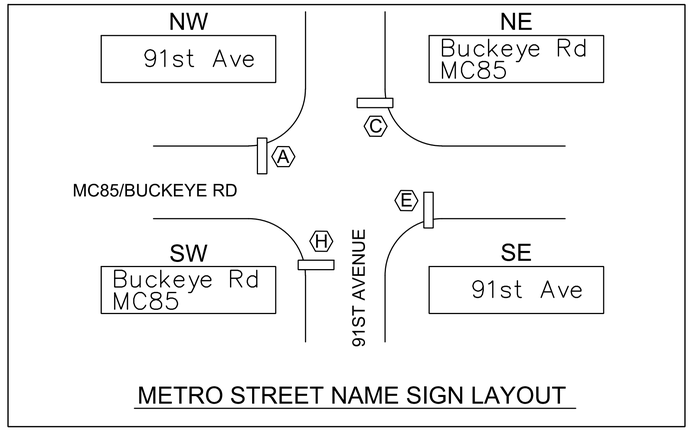
CONDUCTOR SCHEDULE

	CONDUIT RUN NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	CONDUIT SIZE INCHES		2.5	2	3	3	3	3	3	3	3	3	3	3	3	2	3	2	3	2	2	3	2
	EXISTING CONDUIT		X	X	X	X	X	X			X	X	X	X	X								
AWG	CIRCUIT PHASE																						
●	IMSA CABLE 19-1				2		2		2		2		2										
#10	COMMON	WHITE			2		2		2		2		2										
■	ø1 & ø6 VEH IMSA CABLE 19-1														+1								+1
	ø2 VEH																		3				
	ø3 & ø8 VEH															+1	+1						
	ø4 VEH																					3	
	ø5 & ø2 VEH																	+1	+1				
	ø6 VEH														3								
	ø7 & ø4 VEH																				+1	+1	
	ø8 VEH																3						
	ø2 PED M/H																		1			1	
	ø4 PED M/H														1								1
	ø6 PED M/H															1	1						
	ø8 PED M/H																	1			1		
⬣	ø2 PED P.B.			2		1		1				1									1	1	
	ø4 PED P.B.			2								1		1									1
	ø6 PED P.B.			2		1										1	1						
	ø8 PED P.B.			2		2		1										1		1			
	CABLE SPARES																						
▲▲	VIDEO DETECTION				4	2			1				1	1		1		1		1		1	
⧗	CCTV CAMERA					1									1								
#12	LIGHTING LOAD	BLACK			1						1		1		1				1			1	
#12	LIGHTING LOAD	WHITE			1						1		1		1				1			1	
#8	LIGHTING	120 VOLT		1																			
#8	SIGNAL	120 VOLT		1																			
#8	COMMON			1																			
#8	SERVICE	120/240 VOLT																					
#8	BARE BOND			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

POWER COMPANY CONDUCTOR REQUIREMENTS

\# EXISTING CONDUCTORS
NEW CONDUCTORS
● IMSA 19-1 CABLE, NO. 14 AWG, 20 CONDUCTOR - (SEE 4799-2 FOR CABLE CONDUCTOR COLOR CODE)
■ IMSA 19-1 CABLE, NO. 14 AWG, 4 AND 7 CONDUCTOR - (SEE 4799-1 FOR CABLE CONDUCTOR COLOR CODE)
⬣ IMSA 19-1 CABLE, NO. 14 AWG, 2 CONDUCTOR - (SEE 4799-1 FOR CABLE CONDUCTOR COLOR CODE)
▲▲ VIDEO CABLE
\+ IMSA 19-1, 7-CONDUCTOR WIRING TO BE INSTALLED AT ALL EXISTING AND FUTURE PROTECTIVE/PERMISSIVE SIGNAL INDICATIONS

NOTE:
1) SIGNAL WIRE NO. 8, 10, 12, AND 14 SHALL BE EITHER THW OR THWN.
2) SERVICE 120/240 VOLT WIRING AS PER THE POWER UTILITIES' REQUIREMENTS.



METRO STREET NAME SIGN LAYOUT

NOTES:

1. NON-ILLUMINATED METRO STREET NAME SIGN LAYOUT SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MCDOT SUPPLEMENT SECTION 465 AND THE MCDOT TRAFFIC SIGNING MANUAL.
2. SEE MCDOT STD. DETAILS 4780-2, 4780-3, AND 4780-4.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL STREET NAME SIGN MOUNTING EQUIPMENT AND HARDWARE PER MCDOT STD. DETAIL 4780-3. PAYMENT SHALL BE INCIDENTAL TO ITEM 465.02001.

SIGNAL CONSTRUCTION NOTES:

1. ALL TRAFFIC SIGNAL MATERIALS, EQUIPMENT AND INSTALLATION SHALL CONFORM TO SECTIONS 470 THROUGH 478 OF THE MCDOT SUPPLEMENT TO THE MAG SPECIFICATIONS AND STANDARD DETAILS (2022), THESE PLANS AND ACCOMPANYING SPECIAL PROVISIONS.
2. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ALL UTILITIES MAY NOT BE SHOWN. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO PROCEEDING WITH ANY CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL CONTACT "ARIZONA 811" AT 602-659-7500 PRIOR TO START OF WORK.
4. ALL POLE, CONTROLLER CABINET, SERVICE PEDESTAL AND BATTERY BACKUP CABINET FOUNDATION LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THAT LOCATIONS DESIGNATED DO NOT CONFLICT WITH UTILITIES OR OTHER OBJECTS PRIOR TO RECEIVING EQUIPMENT FROM MCDOT AND PROCEEDING WITH CONSTRUCTION ACTIVITIES.
5. ALL POLE, CONTROLLER CABINET, SERVICE PEDESTAL AND BATTERY BACKUP CABINET FOUNDATIONS SHOWN ON THE PLANS ARE SUBJECT TO LOCATION ADJUSTMENT IF A FIELD CONFLICT IS ENCOUNTERED. THE CONTRACTOR SHALL CONTACT THE TRAFFIC SIGNAL BRANCH AT 602-506-8680 TO REVIEW ALL FOUNDATION LOCATION ADJUSTMENTS.
6. THE CONTRACTOR SHALL CONTACT MCDOT ITS SPECIALIST AT 602.506.9025 OR 602.723.5575 FOR TRAFFIC SIGNAL COMMUNICATION EQUIPMENT, MATERIALS AND INSTALLATION REQUIREMENTS.
7. PRIOR TO RECEIVING SIGNAL EQUIPMENT FROM MCDOT, THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSION OF EACH SIGNAL MAST ARM LENGTH NEEDED FOR SIGNAL INSTALLATION.
8. CONTRACTOR SHALL COORDINATE WITH CITY OF PHOENIX FOR INSTALLATION OF PREEMPTION CABLES PER SPECIFICATIONS. PAYMENT SHALL BE INCIDENTAL TO ITEM 478.01000.

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	R. Grano	06/2022
DRAWN	R. Grano	06/2022
CHECKED	T. Swanson	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 59794 TAYLOR SWANSON Date Signed 06/17/22 ARIZONA, U.S.A.

Kimley»Horn

MC 85 & 91ST AVENUE POLE AND CONDUCTOR SCHEDULE

SHEET SG030F SG03

TRACS NO. _____

Plot Time: 10:49:28pm
Plot Date: 6/15/2022
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signal Plan & Removal 07.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	113	132	

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION

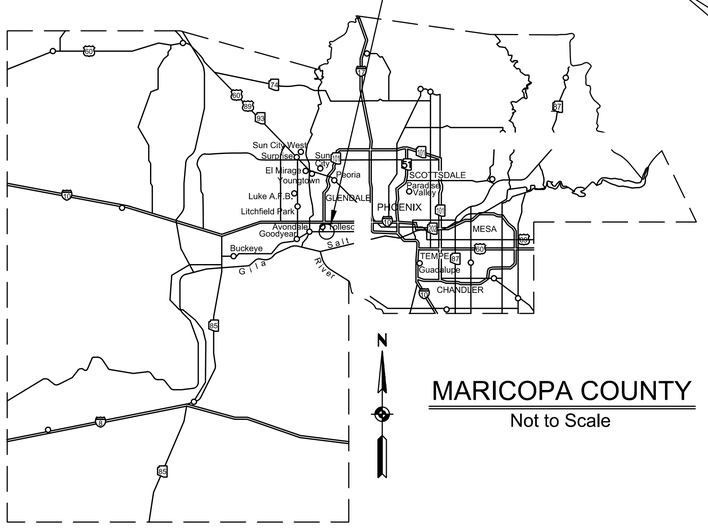
REMOVAL AND UTILITY ADJUSTMENT PLANS FOR THE CONSTRUCTION OF
MC85 & 91st Ave
(MC 85: 95TH AVENUE TO 87TH AVENUE)

PROJECT NO. TT0651

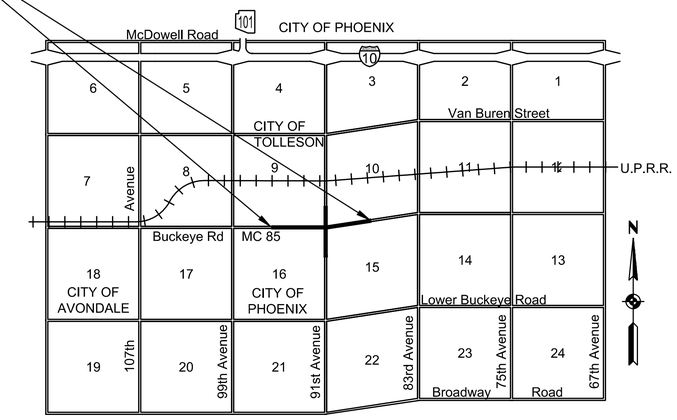
DRAWING INDEX:

U01	COVER SHEET
U02	GENERAL NOTES
U03	GENERAL NOTES
R01-R17	REMOVAL AND UTILITY ADJUSTMENT PLAN SHEETS

PROJECT NO. TT0651



MARICOPA COUNTY
Not to Scale



PROJECT VICINITY MAP
Not to Scale

UTILITY COORDINATION CONTACTS

AGENCY	CONTACT	DATE	PHONE
ARIZONA PUBLIC SERVICE	RON GANDARA	06/22	(602) 371-7546
AT&T	ERIC NOWICKI	06/22	(480) 510-8107
CITY OF PHOENIX (ELECTRICIAN)	MARCELINO NAVA	06/22	(602) 540-3943
CITY OF PHOENIX (WATER)	JAMI ERICKSON	06/22	(602) 261-8229
CITY OF TOLLESON	DALE CRANDELL	06/22	(623) 640-5023
CITY OF TOLLESON (SEWER)	DAVID TYLER	06/22	(623) 478-8722
CITY OF TOLLESON (WATER)	BRYCE BRAGELMAN	06/22	(623) 478-8729
COX COMMUNICATIONS	JOSE AGUIRRE	06/22	(623) 328-2184
LEVEL 3 COMMUNICATION	CARLOS MUNIZ	06/22	(623) 215-5129
LUMEN (PRIVATE)	MIKE PURULESKI	06/22	(602) 578-5367
LUMEN (PUBLIC)	JASON JENSEN	06/22	(801) 735-2464
MCDOT (ITS)	LESHAWN CHARLTON	06/22	(602) 506-9025
MCDOT (TRAFFIC SIGNALS)	EFREN GUEVARA	06/22	(602) 722-1907
MCI	JESUS ARRIETA	06/22	(480) 349-1350
SOUTHWEST GAS	YVONNE AGUIRRE	06/22	(602) 484-5338
SRP (DISTRIBUTION)	ANTHONY LAWRENCE	06/22	(602)748-6687
SRP (DISTRIBUTION INSPECTOR)	BRAD HAWN	06/22	(602) 236-8654
SRP (IRRIGATION)	RON DOBBIN	06/22	(602) 236-2589
SRP (TRANSMISSION)	NORMAN REBER	06/22	(602) 809-2812
VERIZON	WAIDE STOCKHILL	06/22	(480) 510-0273

Call at least two full working days before you begin excavation. ARIZONA811 Arizona Blue Stake, Inc. Dial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County (602) 263-1100

Registered Professional Engineer (Civil) CERTIFICATE No. 75511 MARK FLOOD Date Signed 06/24/22 ARIZONA U.S.A.

TRACS NO. _____

6/21/2022 5:01:21pm K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_UCS.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	114	132	

CITY OF TOLLESON WATER/SEWER NOTES

1. All construction shall be in accordance with current MAG Specifications and Standard Details.
2. The contractor shall obtain all necessary permits prior to construction.
3. City of Tolleson Building Department shall be notified 24 hours prior to starting each phase of construction. Phone, (623) 936-7111.
4. Any work performed without the approval of the City of Tolleson Building Department and/or all work and material not in conformance with the specifications is subject to removal and replacement at the contractor's expense.
5. The contractor will uncover all existing lines being tied into to verify their location. The contractor will locate, or have located, all existing underground utilities (electric, telephone, pipeline, etc.) and structures in advance of construction and will eliminate all conflicts prior to start of construction. BLUE STAKE telephone number (602) 263-1100.
6. The City of Tolleson is not responsible for liability accrued due to delays and/or damages to utilities in conjunction with this construction. Also, the City will not participate in the cost of construction or utility relocation.
7. No final inspection walk through will be scheduled until "as-built" plans have been submitted by the Engineer or Surveyor for review. No final acceptance shall be issued until "as-built" plans have been reviewed and approved by the City Engineer. Upon approval, the Owner shall provide to the City one set of mylar reproducible plans, two blackline copies, and one digital copy on CD or DVD with each plan sheet as a separate .pdf file.
8. Backfilling shall not be started until lines are approved by the City.
9. Fire hydrants shall be Waterous, break-away, dry-barrel design and shall be furnished by the contractor. All fire hydrants shall be painted NFPA Yellow after installation. Each fire hydrant shall be furnished with a gate valve.
10. All valves shall be Mueller, Clow, or American Flow Control 2500-1 Series, gate type, unless otherwise noted, and open to the left.
11. All ductile iron pipe, valves, and fittings shall be polywrapped in accordance with MAG spec 610.6.
12. All service lines 3/4" to 2" size shall be type K copper pipe from City main to meter and from meter to backflow preventer and a minimum buried length of three feet beyond the backflow preventer, if applicable. Service connections shall conform to City of Phoenix Standard Detail P1342. Pack joints shall include a locking device such as a split clamp which is drawn down securely on the tubing or pipe by tightening a stainless steel clamp screw(s). All service lines greater than 2" size shall be ductile iron pipe from City main to meter and from meter to backflow preventer and a minimum buried length of three feet beyond the backflow preventer, if applicable.
13. All taps shall use a bronze service saddle. Eight (8) inches or smaller shall be single strap and ten (10) inches or greater shall be double strap.
14. Meter boxes and lids shall be supplied by the developer and installed facing lot. (See MAG Standard Detail 320). Plastic meter boxes to be used for residential and concrete meter boxes with steel lid to be used for commercial and industrial.
15. City of Tolleson to furnish all water meters with prevailing costs to be paid by the Contractor.
16. All valve boxes shall be Type "A" and furnished with a debris cap. C900 PVC may be used in lieu of concrete pipe.
17. All water line compaction shall be Type 1.
18. All waterline fittings shall be cast or ductile iron, Class 350, with mechanical joints. "Uni-flange" fittings are not allowed.
19. All backflow preventers shall have AWWA certification. Prior to occupancy, Contractor or Owner shall provide testing by a certified tester for all backflow preventers. Testing shall be witnessed by the City Inspector. A copy of test reports shall be provided to the City Inspector.
20. Final testing for bacteriologic contamination shall be performed by one of the City's authorized laboratories – Test America (480-785-0043) or Aquatic Consulting and Testing (480-921-0844). The Contractor shall be responsible for the cost of said laboratory testing and shall make payment directly to the testing company. Should any tests fail, the Contractor shall also be responsible for all City costs associated with the collection of samples for retesting.
21. Disposal of excess material within the City Limits is prohibited. A use permit is required for disposal or stockpiling of material within a residential area.
22. Stockpiling of excavated material shall not exceed a height of six (6) feet above the natural ground elevation.
23. The slopes on all sides of the stockpiled excavated material shall not exceed a 1 to 4 ratio of height to length.
24. Traffic control shall be maintained in accordance with MAG Spec. 401 and the Manual on Uniform Traffic Control Devices.
25. The contractor shall provide adequate means for cleaning trucks and/or other equipment of mud prior to entering public streets. It is the contractor's responsibility to clean streets and take whatever measures are necessary to ensure that all roads are maintained in a clean, mud and dust free condition at all times.
26. Applications for Street Cut Permits must be approved by the Building Department prior to approval of improvement plans. All pavement replacement shall be in accordance with MAG Standard Detail 200, "T" Top Type.
27. All contractors shall contract for private trash pickup.
28. Any and all damage to existing public improvements shall be repaired by the contractor to the City's satisfaction prior to issuance of final project acceptance.

CITY OF PHOENIX WATER/SEWER NOTES

1. Planning & Development Services Department's Civil/Site Inspection Staff shall be notified 48 hours before any construction begins, telephone (602) 262-7811
2. All water valve boxes shall be per City of Phoenix Supplement to M.A.G. Specifications and Details P1391, Type A only.
3. All construction in City of Phoenix Right-of-Way, or easement, is to conform to M.A.G. Specifications and Details and City of Phoenix Supplement to M.A.G. Specifications and Details, unless modified on the plans.
4. All Ductile Iron Pipe water main valves, fittings, and bends shall be restrained. Restrained joint requirements and approved restraining system are shown in City of Phoenix supplement to M.A.G. Specifications, section 750.3. The length of the restraints must be per M.A.G. Standard Detail 303-1 and 303-2.Thrust blocks are not allowed to be used in lieu of approved restrained joint systems. Thrust blocks can be used in addition to the approved restrained joint systems where specific City of Phoenix Supplement to M.A.G. Standard Detail calls out for thrust blocking, such as current details, P1343, P1351, and P1360 or when otherwise approved by the Water Services Department.
5. The following M.A.G. Details are specifically NOT approved:
   - 302-1 Joint restraint with tie rods
   - 302-2 Joint restraint with tie rods - anchor blocks
   - 321 Standard water meter vault
   - 345-1 3", 4" and 6" water meter
   - 345-2 4" and 6" water meter with on-site fire hydrants
   - 370 Vertical realignment of mains
   - 381 Anchor blocks for vertical bends
   - 390 Curb stop with flushing pipe
   - 391-1 Valve box installation
6. Compaction shall comply with M.A.G. section 601 & City of Phoenix Supplements.
7. New water lines are to be built in accordance with the City of Phoenix "Standard Utility Locations" and applicable City of Phoenix standard details.
8. This set of plans has been initially reviewed by the City of Phoenix. Such review is part of the process that the developer(s)/contractor(s) must go through in order to obtain a construction permit. The results of such initial review shall not dictate the City of Phoenix's final determination as to the acceptability of the plans, nor shall it prevent the City of Phoenix from requiring errors and omissions, as found on plans, be addressed by developer(s)/contractor(s), where such errors and omissions cause the plans to be in violation of or inadequate under applicable federal/state/county/local codes, ordinances, regulation, or other laws. This reviewed and stamped set of plans must be kept at the construction site at all times.
9. Pipe deflection shall be per manufacturer's recommendations.
10. All work must comply with requirements of current City of Phoenix "Traffic Barricade Manual".
11. The contractor is to notify the public that will be affected by any shutdowns a minimum of 48 hours in advance.
12. A six (6) foot minimum horizontal separation from any underground utility shall be provided for sewer mains, sewer services, water mains, and water services. The minimum horizontal separation is measured from outside of sewer main, sewer service, water main, or water service to outside of underground utility.
13. A two (2) foot minimum vertical separation from any dry underground utility crossing shall be provided for sewer mains, sewer services, water main or water service to outside of underground utility.
14. A two (2) foot minimum vertical separation shall be provided between any sewer main or storm drain crossing a water main. The minimum vertical separation is measured from outside of water main to outside of sewer main or storm drain
15. Exceptions or deviations from the above minimum clearances must be approved and shown on the approved water and sewer plans. When utility conflicts are found during construction, all changes and revisions must be preceded by an approved plan revision.
16. Any and all more stringent requirements required by Federal, State, County, or Local codes ordinances take precedence.
17. Water services shall be installed perpendicular to the water main. Water services at the end of cul-de-sacs may vary as necessary, but will be approved on a case by case basis.
18. All services shall run in a straight line from water main to the meter box.
19. Neither water service meter box nor any portion of a water service shall be installed under an existing or proposed driveway or sidewalk ramp.
20. Concrete or asphalt damaged during the course of construction shall be removed and replaced in kind prior to final inspection.
21. Record drawing submittals must comply per the Water Services Department Engineering Policy P-68. A copy of the policy can be obtained in the department's website: http://phoenix.gov/waterservices/design/engpolicies/index.html
22. In accordance with AAC R-18-4-213, all materials added after January 1, 1993 which may come into contact with drinking water shall conform to National Sanitation Foundation Standards 60 and 61.
23. The City of Phoenix does not guarantee dry shutdowns of existing water mains for maintenance, and some nuisance water pumping may be required.
24. For proposed facilities maintain 3' clearance between existing water meters/taps and other utilities.
25. All fire hydrants shall maintain a 6' clearance from any utility and above ground structures.

Plot Time: 12:12:37am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_ULN01.dwg

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-21-22
ARIZONA U.S.A.

Kimley»Horn

GENERAL NOTE SHEET

SHEET
U02 OF U03

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

TRACS NO. _____

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	115	132	

GRADING NOTES

1. *The contractor shall provide smoothly and evenly graded finished ground surfaces around all facilities within the project area.*
2. *All finished grading around facilities shall be completed to the satisfaction of the owner's engineer. At the direction of the owner's engineer, the contractor shall regrade finished surfaces to meet this requirement.*
3. *The contractor shall import additional fill material or export excess cut material as required to provide satisfactory finished grading around the facilities as directed by the owner's engineer.*
4. *Finished grading shall blend smoothly into existing grades.*
5. *Finished surfaces shall be graded to direct drainage away from facilities.*

SWG NOTES

1. *Once mechanical trenching is in progress, do not dig within two feet of a gas pipe. This trenching shall be done by hand in order to prevent any damage to the gas pipe. In the event your contractor should "hook" or otherwise strain a gas pipe while excavating, a call should be placed to (602) 271-GASS (4277).*
2. *Even though there may not be any apparent damage, the strain may have damaged the wrap or a portion of the buried pipe or fittings at other locations causing a leak in the surrounding area. Also, if a steel facility is exposed and the pipe coating is found to be in need of repair, please contact our office so a crew can be dispatched to rewrap the pipe. This is a service provided by Southwest Gas at no cost to the contractor so we can monitor our steel facilities and minimize the possibility of corrosion.*
3. *When the excavations are complete, all exposed gas pipes should be protected. If the trench is more than three feet wide, the pipe must be supported in a manner where the supporting material does not damage the pipe or its protective wrapping.*
4. *When backfilling, Southwest Gas requires both six inches of bedding and six inches of shading with sand or material free of rocks and able to pass through a 3/8-inch screen. This will provide a firm support under the facility and prevent damage to the pipe or pipe coating from the backfilling operation. Do not drop backfill directly over the gas pipe. During the compaction process, use extra care when directly over the gas pipe in order to avoid any damage.*
5. *The Southwest Gas system incorporates valve boxes, test points and underground vaults with manhole access and protective box covering systems. These are designed to be flush with the final surface. These facilities must be kept accessible to Southwest Gas per operating practices and requirements of the DOT Pipeline Safety Regulations.*
6. *Southwest Gas will paint yellow all protective valve box lids and vault manhole covers. It will be the responsibility of the public agency's contractor to make sure these are protected during construction. The public agency's contractor will be responsible for adjustments to all valve box lids and vault manhole covers due to grading and paving per MAG Details 391.1 and 391.2. Contact Southwest Gas Construction at 43rd Operations (602) 484-5350 for coordinating work and inspections. For emergencies, please call (602) 271-GASS (4277).*
7. *Please be aware that there may be abandoned steel gas lines within your project limits that are potentially coated or wrapped with unidentified materials. Southwest Gas treats its steel gas pipe with unidentified coating/wrapping materials as potentially containing asbestos. Extreme care must be taken when working near and exposing these lines, additionally, whenever such pipe is in direct conflict and requires removal, it must only be done so by a Southwest Gas NESHAP certified contractor. The cost associated with such removal will be the responsibility of the developer. Please contact Southwest Gas in advance to coordinate any removal.*

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06/22/22
ARIZONA

Kimley»Horn

GENERAL NOTE SHEET

SHEET U03 OF U03

TRACS NO. _____

Dial 811 or visit Arizona811.com

Plot Time: 12:13:14am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\19185000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_ULN02.dwg

Plot Time: 12:03:23pm
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R19A.dwg

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	116	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

6	Remove Guardrail Sta 1198+69 to Sta 1200+50 Rt	181 Lf
50	Remove Conc Lined Ditch Sta 1198+34to Sta 1200+50 Rt	216 Lf

△ REMOVAL/RELOCATE BY OTHERS △

SEC 9
T1N-R1E

1197+00
1198+00
1199+00
1200+00
97th Ave

Monmouth Real Estate Investment Corporation
101-05-005A

Exist Public Utility Esmt

City Limits
Exist R/W

CITY OF TOLLESON
MARICOPA COUNTY

T (CONDUIT)
FO (CONDUIT)
18" SS (DIP)
4" G (PE)
OP
30" JP (RGRCP)
12" SS (ACP)
12" G (STL)
12" FO (STL)

Section Line

MC 85/BUCKEYE ROAD

Sta 1198+69.92, 22.37' Rt

Sta 1198+34.40, 35.83' Rt

MC 85 Const ℄

6

3'
68'
65'
17'
63'

MARICOPA COUNTY

50

CITY OF PHOENIX

8'
PUE

City Limits
Exist R/W

Caution: Coordinate Guardrail Removal with RE Prior to Removal

Sta 1198+34.40, 38.38' Rt
BEGIN PROJECT TT0651

42' DE

Acquired DE

Exist Private Irrigation

MATCH LINE STA 1200+50 (SEE SHT R02)

PL

SEC 16
T1N-R1E

Elizabeth O. Garretson LLC
101-14-008-Q

N

NO.	REVISION	BY	DATE
1			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD State Expires 06-30-2023 ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 1198+34.40 to Sta 1200+50

SHEET R01 OF R17

TRACS NO. _____

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

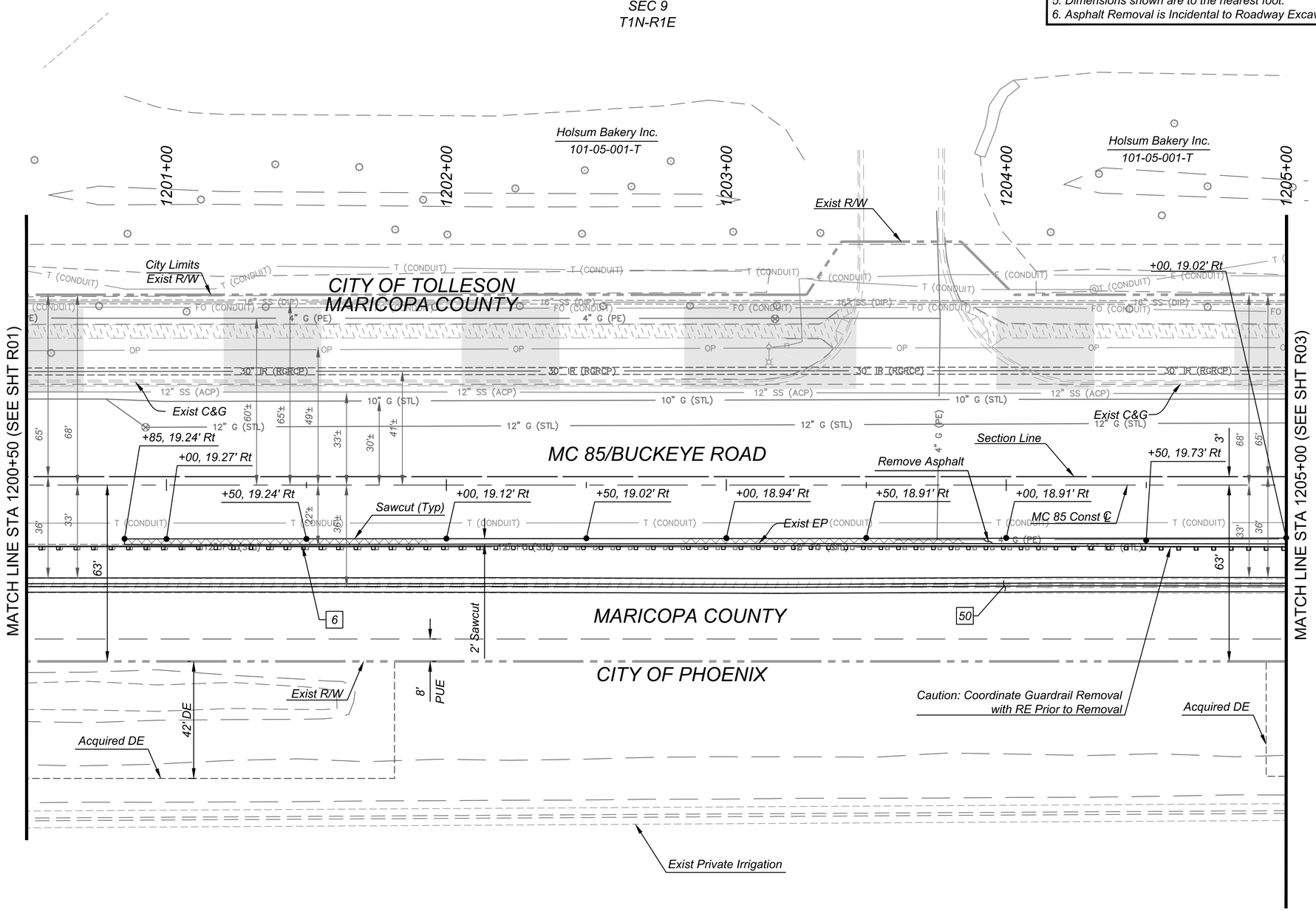
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	117	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

6 Remove Guardrail — 450 Lf
Sta 1200+50 to Sta 1205+00 Rt

50 Remove Conc Lined Ditch — 450 Lf
Sta 1200+50 to Sta 1205+00 Rt

△ REMOVAL/RELOCATE BY OTHERS △



NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/24/22 ARIZONA U.S.A.

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 1200+50 to Sta 1205+00

SHEET R02 OF R17

TRACS NO. _____

Plot Time: 12:19:21am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R19.dwg

Plot Time: 12:22:23am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R20.dwg

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	118	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1206+50 to Sta 1210+00 Lt	350 Lf
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1209+46.87, 13.64' Lt	1 EA
6	Remove Guardrail Sta 1205+00 to Sta 1208+19 Rt Sta 1208+51 to Sta 1209+91 Rt	509 Lf
17	Remove Headwall Sta 1207+76, 36' Rt Sta 1208+16, 36' Rt Sta 1208+56, 40' Rt Sta 1209+88, 37' Rt	4 Ea
19	Remove Conc Slab Sta 1206+50 to Sta 1206+94 Sta 1208+96 to Sta 1210+00	2553 Sf
50	Remove Conc Lined Ditch Sta 1205+00 to Sta 1208+16 Rt Sta 1208+56 to Sta 1209+88 Rt	438 Lf
59	Remove Pipe, 18", Backfill & Compact Sta 1208+56, 40' Rt to Sta 1208+81, 81' Rt	50 Lf
61	Remove Pipe 30", Backfill and Compact Sta 1209+88 to Sta 1210+00 Sta 1207+90 80' Rt to 1207+91 105' Rt	50 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△9	Remove Existing SRPP (Distribution) Facility by SRPP (Distribution)
△20	Relocate Existing Boulders by Others

SEC 9
T1N-R1E

1205+00 | 1206+00 | 1207+00 | 1208+00 | 1209+00 | 1210+00

Holsum Bakery Inc.
101-05-001-T

CITY OF TOLLESON

City Limits
Exist R/W

MARICOPA COUNTY

MC 85/BUCKEYE ROAD

MATCH LINE STA 1205+00 (SEE SHT R02)

MATCH LINE STA 1210+00 (SEE SHT R04)

Exist C&G

+50.00, 35.6' Lt

+00, 18.72' Rt

+50, 18.91' Rt

+50.00, 18.8' Rt
Sawcut

2' SWCT

Section Line

Remove Asphalt

Exist EP

MC 85 Const ℄

PI 19+49.40

19+00

MARICOPA COUNTY

CITY OF PHOENIX

8' PUE

41' DE

50'

City Limits
Exist R/W

Caution: Coordinate Guardrail Removal with RE Prior to Removal

Acquired DE

Caution: Coordinate Guardrail Removal with RE Prior to Removal

Acquired DE
20180105693

TCE

21' SRP
Irrigation Esmt

Exist Private Irrigation

SEC 16
T1N-R1E

Elizabeth O. Garretson
101-14-008-Q

GR and DV Properties LLC
101-14-008-L

GR and DV Properties LLC
101-14-002-A

N

NO.	REVISION	BY	DATE
1			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil)
CERTIFICATE NO.
75511
MARK
FLOOD
Date Signed 06-21-22
ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 1205+00 to Sta 1210+00

SHEET R03 OF R17

TRACS NO. _____

Plot Time: 12:25:41am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R21.dwg

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	119	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1210+00 to Sta 1210+24 Sta 1210+58 to Sta 1211+33 Sta 1212+28 to Sta 1215+00	371 Lf
3	Adjust Water Valve, Box & Cover Per COP Std Det P-1391, Type A Sta 1212+40.44, 26.14' Rt Sta 1212+41.56, 27.69' Rt Sta 1212+46.66, 27.61' Rt	3 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1210+50, 95' Rt Sta 1210+60, 109' Rt Sta 1210+83, 64' Rt Sta 1212+81.51, 37.78' Lt	4 Ea
5	Remove Conc Sidewalk Sta 1210+26 to Sta 1210+56 Lt Sta 1211+14 to Sta 1211+38 Lt Sta 1211+99 to Sta 1212+77 Lt	1234 Sf
6	Remove Guardrail Sta 1210+10 to Sta 1210+72 Rt	79 Lf
8	Remove Conc Single Curb Sta 1211+43, 39' Lt to Sta 1211+59, 75' Lt Sta 1211+99, 75' Lt to Sta 1212+16, 39' Lt Sta 1213+48, 23' Rt to Sta 1213+55, 23' Rt	141 Lf
9	Remove Conc Driveway Sta 1210+24 to Sta 1210+58 Lt Sta 1211+43 to Sta 1212+16 Lt	2017 Sf
17	Remove Headwall Sta 1210+13, 39' Rt Sta 1210+27, 48' Rt Sta 1210+74, 38' Rt	3 Ea
18	Remove AC Pavement Sta 1213+28 to Sta 1213+71 Rt	6 Sy
19	Remove Conc Slab Sta 1210+00 to Sta 1215+00	6182 Sf
50	Remove Conc Lined Ditch Sta 1210+13 to Sta 1210+74 Rt	61 Lf
61	Remove Pipe, 30" Backfill & Compact Sta 1210+00 to Sta 1210+14 Rt Sta 1210+72 to Sta 1211+11 Rt	53 Lf
77	Remove Kinder Morgan Gas Line Marker Sta 1210+66, 29' RT	

△ REMOVAL/RELOCATE BY OTHERS △

20	Relocate Existing Boulders by Others

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-21-22 ARIZONA U.S.A.

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 1210+00 to Sta 1215+00

SHEET R04 OF R17

TRACS NO. _____

Plot Time: 12:29:12am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R22.dwg

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	120	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1215+00 to Sta 1216+36 Lt Sta 1216+76, 77' to 92' Lt Sta 1217+25, 89' to 92' Lt Sta 1217+65 to Sta 1220+00 Lt	378 Lf
3	Adjust Water Valve, Box & Cover Per COP Std Det P-1391, Type A Sta 1215+42.45, 26.33' Rt Sta 1215+44.19, 27.96' Rt Sta 1218+25.45, 26.98' Rt Sta 1218+27.11, 28.38' Rt	4 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1215+11, 39' Lt Sta 1216+89, 38' Lt Sta 1218+04, 10' Lt Sta 1219+45, 38' Lt	4 Ea
5	Remove Conc Sidewalk Sta 1216+18 to Sta 1216+75 Lt Sta 1216+75, 77' to 92' Lt Sta 1217+29 to Sta 1219+72 Lt	1718 Sf
8	Remove Conc Single Curb Sta 1216+36 to Sta 1216+76 Lt Sta 1217+25 to Sta 1217+65 Lt	139 Lf
9	Remove Conc Driveway Sta 1216+77 to Sta 1217+24 Lt	2356 Sf
12	Remove Conc Valley Gutter Sta 1216+36 to Sta 1219+92 Lt	2423 Sf
18	Remove AC Pavement Sta 1216+77 to Sta 1217+24 Lt Sta 1216+80 to Sta 1217+20 Rt	96 Sy
19	Remove Conc Slab Sta 1215+00 to Sta 1220+00	5545 Sf

△ REMOVAL/RELOCATE BY OTHERS △

△10	Adjust Existing Lumen Facility by Lumen

NO.	REVISION	BY	DATE
1			
2			
3			
4			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/21/22 ARIZONA U.S.A.

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 1215+00 to Sta 1220+00

SHEET R05 OF R17

TRACS NO. _____

Plot Time: 12:32:42am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cad\03-Sheets\Utilities\AZE1019_R23.dwg

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	121	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1220+00 to Sta 1222+00 Lt Sta 1223+12 to Sta 1225+00 Lt	391 Lf
3	Adjust Water Valve, Box & Cover Per COP Std Det P-1391, Type A Sta 1221+22.85, 26.27' Rt Sta 1221+24.52, 27.60' Rt Sta 1223+43.85, 26.29' Rt Sta 1223+45, 27.70' Rt	4 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1223+73, 39' Lt	1 Ea
5	Remove Conc Sidewalk Sta 1221+50 to Sta 1222+30 Lt Sta 1223+82 to Sta 1223+50 Lt Sta 1224+12 to Sta 1224+35 Lt	1010 Sf
8	Remove Conc Single Curb Sta 1222+05, 37' Lt to Sta 1222+31, 74' Lt Sta 1222+81, 73' Lt to Sta 1223+12, 37' Lt Sta 1224+35, 26' Rt to Sta 1224+44, 26' Rt	143 Lf
9	Remove Conc Driveway Sta 1222+05 to Sta 1223+12 Lt Sta 1224+15 to Sta 1224+59 Rt	2266 Sf
19	Remove Conc Slab Sta 1220+00 to Sta 1225+00	4956 Sf

△ REMOVAL/RELOCATE BY OTHERS △

SEC 9
T1N-R1E

1220+00 1221+00 First Industrial LP 101-06-434 1222+00 1223+00 1224+00 FR AZTX LLC 101-06-430 1225+00

Exist Public Utility Esmt
Exist Non-Vehicular Access Esmt
City Limits Exist R/W
TCE
Inv = 997.04'

CITY OF TOLLESON
MARICOPA COUNTY
MC 85/BUCKEYE ROAD
MARICOPA COUNTY
CITY OF PHOENIX

TON = UNK Protect in Place
Sawcut
Remove Asphalt
Exist C&G
+50.00 40.60'LT
+50.00 42.39'RT
+12.36 42.78'LT
+36.29 43.02'LT
Section Line
SMH Rim = 1000.64 Bottom = 997.54 (N)
Inv = 997.43'
MC 85 Const ℄
Exist EP
TON = 1002.57' Protect in Place
TON = 1002.82' Protect in Place
8' PUE
IMH Rim = 998.50
City Limits Exist R/W
63' TCE
107' TCE
21'
20' SRP Irrigation Esmt
TCE
Acquired DE 20160954261
62' DE
Varies
30'
63'
65'
68'
22'
27'
48±
27±
39±
30±
19±
26±
63±
77±

CRPMarwest Logic Park Owner LLC
101-13-004-G
CRPMarwest Logic Park Owner LLC
101-13-004-H

SEC 16
T1N-R1E

MATCH LINE STA 1220+00 (SEE SHT R05)
MATCH LINE STA 1225+00 (SEE SHT R07)

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/21/22 ARIZONA U.S.A.

Kimley»Horn

Removal and Utility Adjustment Plans
1220+00 to Sta 1225+00

SHEET R06 OF R17

TRACS NO. _____

Plot Time: 12:03:42pm
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R24.dwg

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	122	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1225+00 to Sta 1227+27 Lt Sta 1227+54, 74' to 80' Lt Sta 1228+04, 76' to 80' Lt Sta 1228+30 to Sta 1230+00 Lt	409 Lf
3	Adjust Water Valve, Box & Cover Per COP Std Det P-1391, Type A Sta 1226+32.09, 23.79' Rt Sta 1226+33.79, 25.19' Rt Sta 1228+91.98, 16.52' Rt Sta 1228+93.70, 17.72' Rt	4 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1227+60, 70' Lt Sta 1227+61, 46' Lt Sta 1228+02, 47' Lt	3 Ea
5	Remove Conc Sidewalk Sta 1227+16 to Sta 1227+54 Lt Sta 1228+05 to Sta 1228+68 Lt	697 Sf
8	Remove Conc Single Curb Sta 1227+27 to Sta 1227+54 Lt Sta 1227+54, 73' to 80' Lt Sta 1228+05 to Sta 1228+30 Lt	90 Lf
9	Remove Conc Driveway Sta 1227+56 to Sta 1228+04 Lt	1480 Sf
12	Remove Conc Valley Gutter Sta 1227+27 to 1228+30 Lt	468 Sf
18	Remove AC Pavement Sta 1227+54 to 1228+05 Lt Sta 1227+64 to 1228+04 Rt	92 Sy
19	Remove Conc Slab Sta 1225+00 to Sta 1230+00	4759 Sf

△ REMOVAL/RELOCATE BY OTHERS △

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-21-22 ARIZONA U.S.A.

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 1225+00 to Sta 1230+00

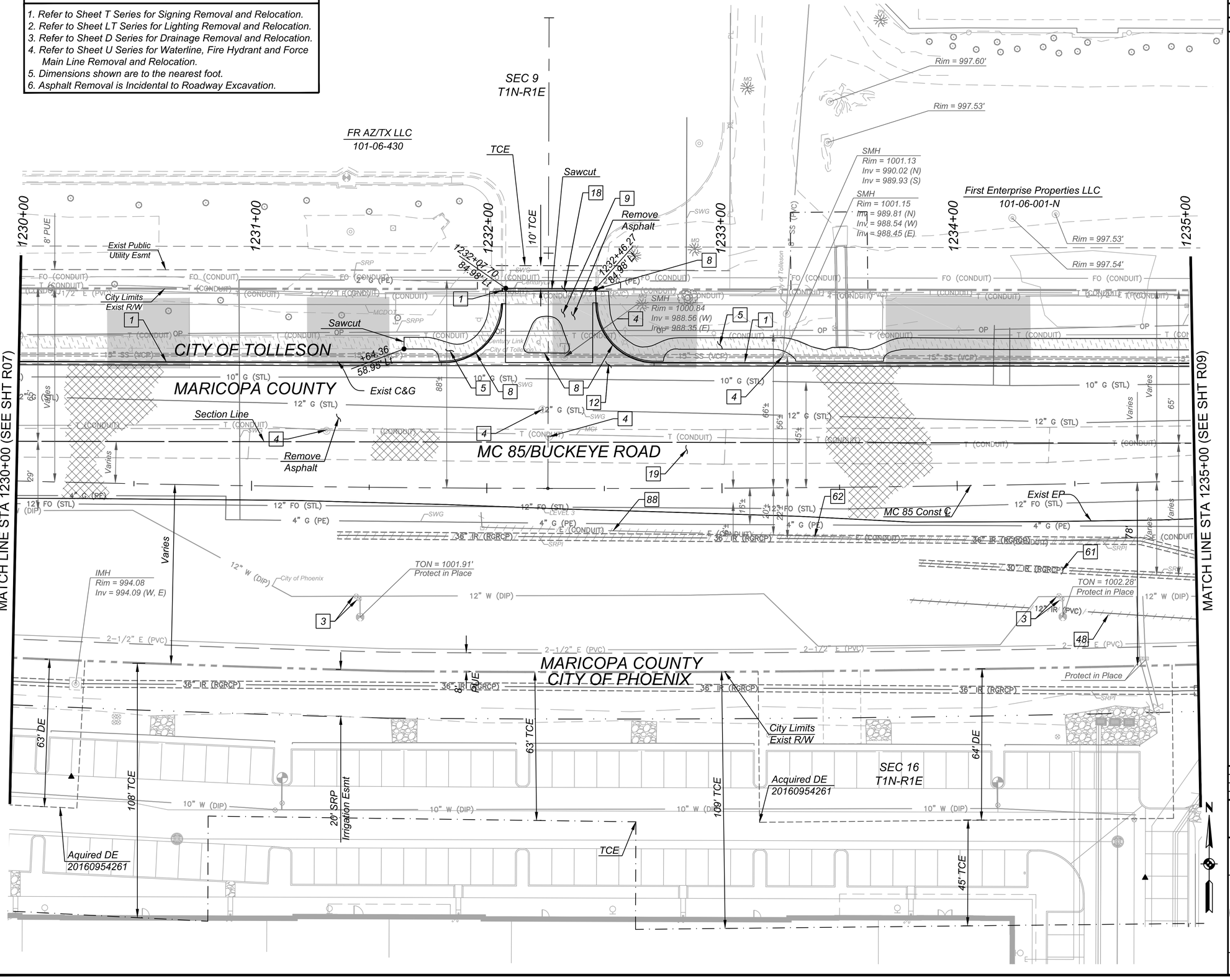
SHEET R07 OF R17

TRACS NO. _____

Plot Time: 12:04:00pm
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R25.dwg

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	123	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1230+00 to Sta 1231+80 Lt Sta 1232+08, 84' to 85' Lt Sta 1232+71 to Sta 1235+00 Lt	407 Lf
3	Adjust Water Valve, Box & Cover Per COP Std Det P-1391, Type A Sta 1231+44.99, 46.33' Rt Sta 1231+46.31, 47.38' Rt Sta 1234+42.37, 47.46' Rt Sta 1234+43.64, 48.85' Rt	4 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1231+31, 24' Lt Sta 1232+24, 34' Lt Sta 1232+27, 22' Lt Sta 1232+33, 56' Lt Sta 1233+26, 56' Lt	5 Ea
5	Remove Conc Sidewalk Sta 1231+65 to Sta 1232+08 Lt Sta 1232+47 to Sta 1235+00 Lt	1688 Sf
8	Remove Conc Single Curb Sta 1231+80 to Sta 1232+06 Lt Sta 1232+15 to Sta 1232+35 Island Lt Sta 1232+46 to Sta 1232+71 Lt	139 Lf
9	Remove Conc Driveway Sta 1232+08 to Sta 1232+45 Lt	899 Sf
12	Remove Conc Valley Gutter Sta 1231+80 to Sta 1232+71 Lt	466 Sf
18	Remove AC Pavement Sta 1232+08 to Sta 1232+46 Lt	6 Sy
19	Remove Conc Slab Sta 1230+00 to 1235+00	6881 Sf
48	Remove Pipe, 12", Backfill & Compact Sta 1234+07 to Sta 1235+00	94 Lf
61	Remove Pipe, 30", Backfill & Compact Sta 1233+83 to Sta 1235+00 Rt	117 Lf
62	Remove Pipe, 36", Backfill & Compact Sta 1231+37 to 1235+00 Rt	365 Lf
88	Remove Existing Abandoned Conduit	309 Lf

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-21-22 ARIZONA U.S.A.

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 1230+00 to Sta 1235+00

SHEET R08 OF R17

TRACS NO. _____

Plot Time: 12:42:28am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R26.dwg

△ REMOVAL/RELOCATE BY OTHERS △

△3 *Adjust Existing Southwest Gas Facility by Southwest Gas*
Sta 1236+51.62, 115.22 Rt
Sta 1236+82.81, 57.97 Rt
Sta 1236+84.43, 113.13 Rt

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

89 *Asphalt Milling, 1.5" Mill* — *935 Sy*
Sta 1237+58 to 1237+90 Lt
Sta 1237+50 to 1239+10 Rt

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	124	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1 *Remove Conc C&G* — *517 Lf*
Sta 1235+00 to Sta 1236+28 Lt
Sta 1236+99 to Sta 1237+58 Lt
Sta 1235+19 to Sta 1236+18 Rt
Sta 1236+87 to Sta 1237+40 Rt

3 *Adjust Water Valve, Box & Cover Per COP Std Det P-1391, Type A* — *5 Ea*
Sta 1236+51.46, 15.32' Rt
Sta 1236+52.76, 17.43' Rt
Sta 1236+54.68, 15.62' Rt
Sta 1237+33.22, 11.96' Rt
Sta 1237+47.74, 1.69' Rt

4 *Adjust Manhole Frame & Cover Per MAG Std Det 422* — *1 Ea*
Sta 1237+18, 48' Lt

5 *Remove Conc Sidewalk* — *1753 Sf*
Sta 1235+00 to Sta 1236+28 Lt
Sta 1237+00 to Sta 1237+45 Lt
Sta 1237+09 to Sta 1237+58 Lt

8 *Remove Concrete Single Curb* — *11 Lf*
Sta 1237+15 to Sta 1237+21 Lt

19 *Remove Conc Slab* — *2639 Sf*
Sta 1235+00 to Sta 1235+40 Lt
Sta 1235+75 to Sta 1239+50 Lt

48 *Remove Pipe, 12", Backfill & Compact* — *94 Lf*
Sta 1235+00 to Sta 1236+07 Rt

53 *Remove Irrigation Junction Structure* — *2 Ea*
Sta 1235+20, 37' Rt
Sta 1236+10, 66' Rt

57 *Remove Irrigation Manhole* — *1 Ea*
Sta 1236+16, 32' Lt

58 *Remove Manhole* — *2 Ea*
Sta 1236+25, 39' Lt
Sta 1236+59, 45' Lt

59 *Remove Pipe, 18", Backfill & Compact* — *145 Lf*
Sta 1236+13, 69' Rt to Sta 1237+07, 53' Lt

60 *Remove Pipe, 24", Backfill & Compact* — *15 Lf*
Sta 1235+16, 87' Rt to Sta 1235+19, 66' Rt

61 *Remove Pipe, 30", Backfill & Compact* — *137 Lf*
Sta 1235+00, 42' Rt to Sta 1235+44, 43' Rt
Sta 1235+59, 45' Rt to Sta 1236+07, 66' Rt
Sta 1235+19, 66' Rt to Sta 1235+21, 43' Rt
Sta 1235+21, 41' Rt to Sta 1235+21, 39' Rt
Sta 1235+62, 51' Lt to Sta 1235+79, 50' Lt

62 *Remove Pipe, 36", Backfill & Compact* — *79 Lf*
Sta 1235+00, 32' Rt to Sta 1235+18, 36' Rt
Sta 1235+75, 27' Rt to Sta 1236+07, 63' Rt

64 *Remove Pipe, 48", Backfill & Compact* — *228 Lf*
Sta 318+50 to Sta 319+16, 22' Lt
Sta 319+26, 22' Lt to Sta 320+41, 23' Lt
Sta 320+47 to Sta 320+77, 23' Lt
Sta 320+83, 23' Lt to Sta 321+00, 24' Lt

88 *Remove Existing Abandoned Conduit* — *1752 Lf*

NO.	REVISION	BY	DATE
3			
2			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/22/22 ARIZONA U.S.A.

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 1235+00 to Sta 1239+50

SHEET R09 OF R17

TRACS NO. _____

Plot Time: 12:45:39am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R27.dwg

NOTES

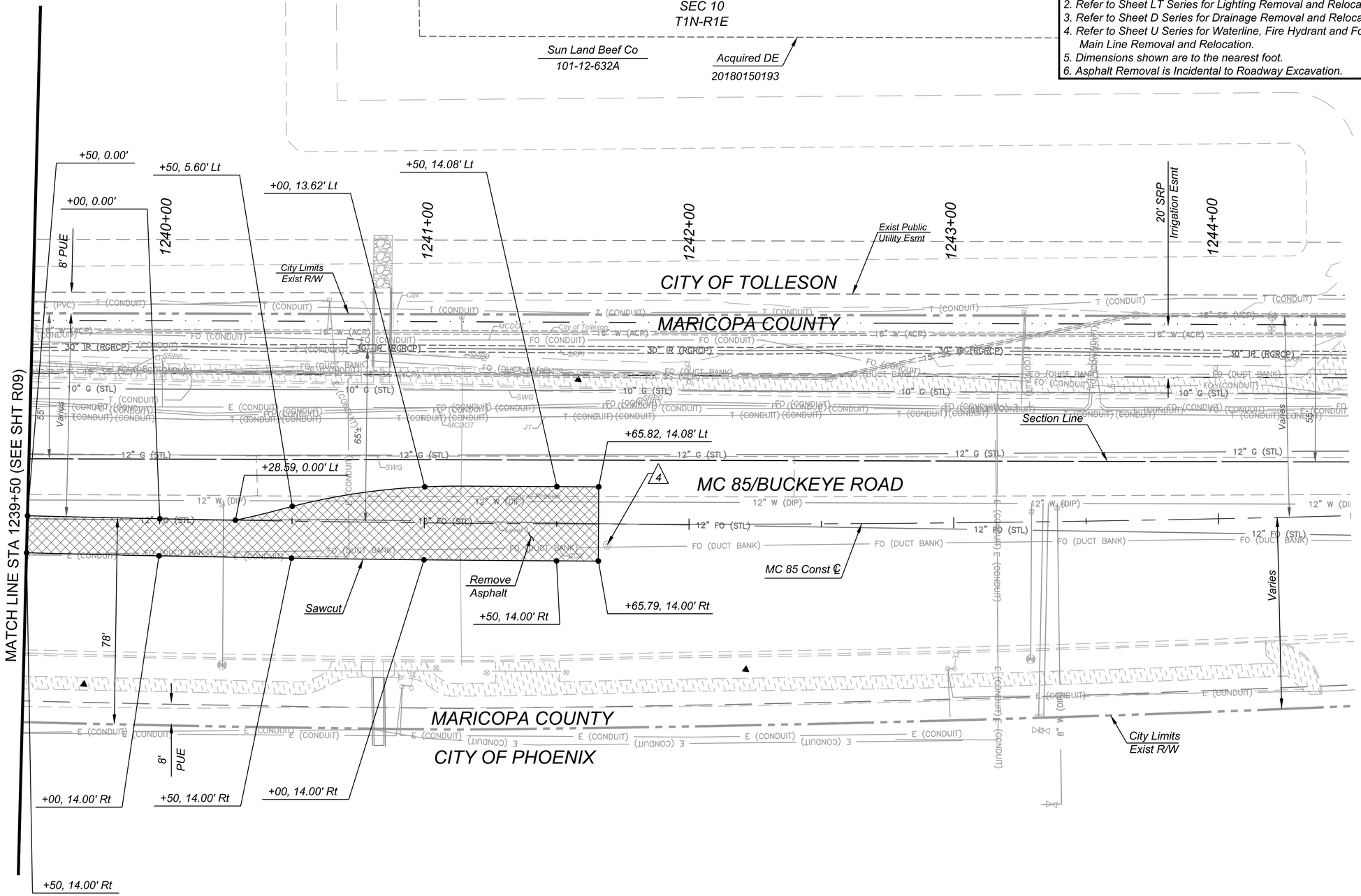
1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	125	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

△ REMOVAL/RELOCATE BY OTHERS △

4 Adjust Existing COX manhole by COX



NO.	REVISION	BY	DATE
1			
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-21-22 ARIZONA U.S.A.

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 1239+50 to Sta 1244+50

SHEET R10 OF R17

TRACS NO. _____

Plot Time: 12:48:58am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R60.dwg

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

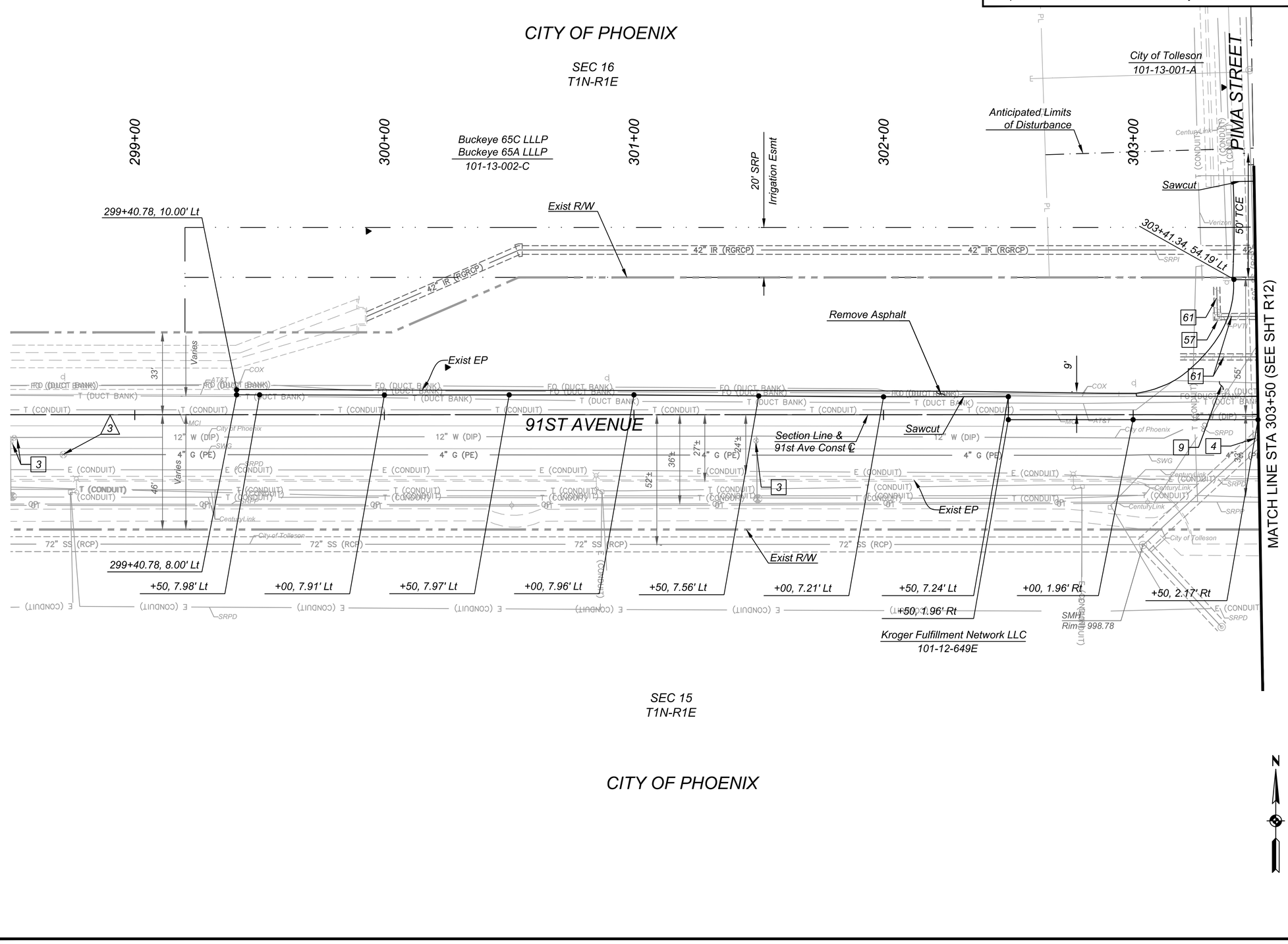
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	126	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

- [3] *Adjust Water Valve, Box & Cover Per COP Std Det P-1391, Type A* — 4 Ea
  Sta 298+43.32, 10.90' Rt, Not shown on this sheet
  Sta 298+50.28, 10.72' Rt
  Sta 298+51.72, 9.21' Rt
  Sta 301+48.91, 10.33' Rt
- [4] *Adjust Manhole Frame & Cover Per MAG Std Det 422 & P1430* — 1 Ea
  Sta 303+50, 10' Rt
- [9] *Remove Conc Driveway* — 915 Sf
  Sta 303+01 to Sta 303+50 Lt
- [57] *Remove Irrigation Manhole* — 1 Ea
  Sta 303+34, 38' Lt
- [61] *Remove Pipe, 30" Backfill & Compact* — 58 Lf
  Sta 303+18 to 303+50, 23' Lt
  Sta 303+34, 41' Lt to 51' Lt
  Sta 303+35 to 303+50, 39' Lt

△ REMOVAL/RELOCATE BY OTHERS △

- △[3] *Adjust Existing Southwest Gas Facility by Southwest Gas*
  Sta 298+71.40, 15.94' Rt



NO.	REVISION	BY	DATE
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MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

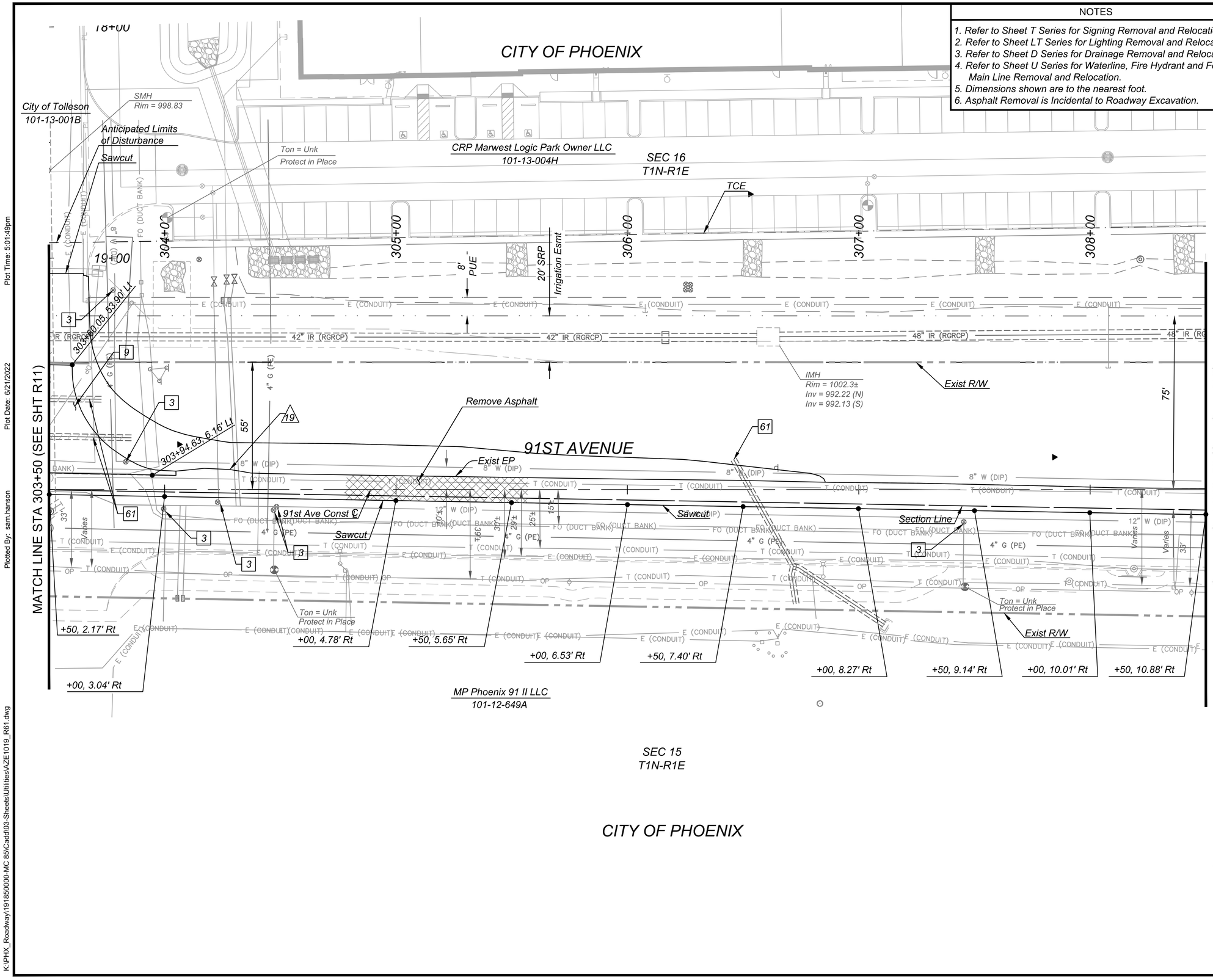
Registered Professional Engineer (Civil)
CERTIFICATE NO. 75511
MARK FLOOD
Date Signed 06-24-22
ARIZONA, U.S.A.

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 298+50 to Sta 303+50

SHEET R11 OF R17

TRACS NO. _____



NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	127	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

3 *Adjust Water Valve, Box & Cover Per COP Std Det P-1391, Type A* — 7 Ea
Sta 303+77.77, 86.19' Lt
Sta 303+83.12, 12.18' Lt
Sta 304+0.04, 9.27' Rt
Sta 304+23.47, 5.75' Rt
Sta 304+47.24, 9.73' Rt
Sta 304+47.89, 7.67' Rt
Sta 307+45.54, 14.63' Rt

9 *Remove Conc Driveway* — 967 Sf
Sta 303+50 to Sta 304+05 Lt

61 *Remove Pipe, 30" Backfill & Compact* — 72 Lf
Sta 303+50 to Sta 303+73 Lt
Sta 303+50 to Sta 303+86 Lt
Sta 306+50 to Sta 306+53 Lt

△ REMOVAL/RELOCATE BY OTHERS △

△19 *COP to remove coupling and straight pipe copper from main to meter*

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/30/22 ARIZONA U.S.A.

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 303+50 to Sta 308+50

SHEET R12 OF R17

TRACS NO. _____

Plot Time: 5:01:49pm
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R61.dwg

Plot Time: 5:02:08pm
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R62.dwg

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	128	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

3 *Adjust Water Valve, Box & Cover Per COP Std Det P-1391, Type A* — 3 Ea
Sta 310+37.24, 19.40' Rt
Sta 310+46.72, 19.27' Rt
Sta 310+48.14, 17.78' Rt

5 *Remove Conc Sidewalk* — 28 Sf
Sta 308+94.50 to Sta 308+99.41 Lt

8 *Remove Conc Single Curb* — 13 Lf
Sta 308+99.41, 73.90' to 79.60' Lt
Sta 309+39.92, 73.00' to 79.90' Lt

18 *Remove AC Pavement* — 31 Sy
Sta 309+00 to Sta 309+40 Lt

△ REMOVAL/RELOCATE BY OTHERS △

△3 *Adjust Existing Southwest Gas Facility by Southwest Gas*
Sta 308+70.29, 25.55' Rt

MATCH LINE STA 308+50 (SEE SHT R12)

MATCH LINE STA 313+50 (SEE SHT R14)

CITY OF PHOENIX

CRP Marwest Logic Park Owner LLC
101-13-004H

SEC 16
T1N-R1E

TCE

309+00 310+00 311+00 312+00 313+00

20' SRP

Irrigation Esmt

8' PUE

Exist R/W

Remove Asphalt

55'

Varies

Sawcut

91st Ave Const ℄

Exist EP

TON = UNK

Protect in Place

Section Line

91ST AVENUE

+50, 10.88' Rt
+00, 11.75' Rt
+50, 12.62' Rt
+00, 13.49' Rt
+50, 14.37' Rt
+00, 15.24' Rt
+50, 16.11' Rt
+00, 16.98' Rt
+50, 17.85' Rt
+00, 18.72' Rt
+50, 19.59' Rt

MP Phoenix II LLC
101-12-649A

SEC 15
T1N-R1E

MP Phoenix 91 II LLC
101-12-649D

MP Phoenix 91 LLC
101-12-649D

CITY OF PHOENIX

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/21/22 ARIZONA U.S.A.

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 308+50 to Sta 313+50

SHEET R13 OF R17

TRACS NO. _____

Plot Time: 12:58:27am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R63.dwg

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Subgrade Preparation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	129	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

3	Adjust Water Valve, Box & Cover Per COP Std Det P-1391, Type A Sta 314+12.34, 19.19' Rt Sta 314+20.16, 19.50 Rt Sta 316+15.21, 19.65' Rt Sta 316+41.89, 19.19' Rt Sta 316+42.97, 17.95' Rt	5 Ea
8	Remove Conc Single Curb Sta 314+34, 88.50' to 89' Lt Sta 314+74, 88.50' to 89' Lt	1 Lf
5	Remove Conc Sidewalk Sta 314+79 to Sta 314+90 Lt	91 Sf
9	Remove Conc Driveway Sta 314+25 to Sta 314+81 Lt Sta 314+34 to Sta 314+74 Lt	569 Sf
18	Remove AC Pavement Sta 315+87 Rt to Sta 316+25 Rt	49 Sy
57	Remove Irrigation Manhole Sta 314+00, 25' Lt	1 Ea
64	Remove Pipe, 48", Backfill & Compact Sta 313+99, 69' Lt to Sta 314+00, 28' Lt Sta 314+05, 24' Lt to Sta 318+50, 22' Lt	424 Lf

△ REMOVAL/RELOCATE BY OTHERS △

3	Adjust Existing Southwest Gas Facility by Southwest Gas Sta 313+56.57, 34.21' Rt	

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/22 ARIZONA U.S.A. Mark Flood

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 313+50 to Sta 318+50

SHEET R14 OF R17

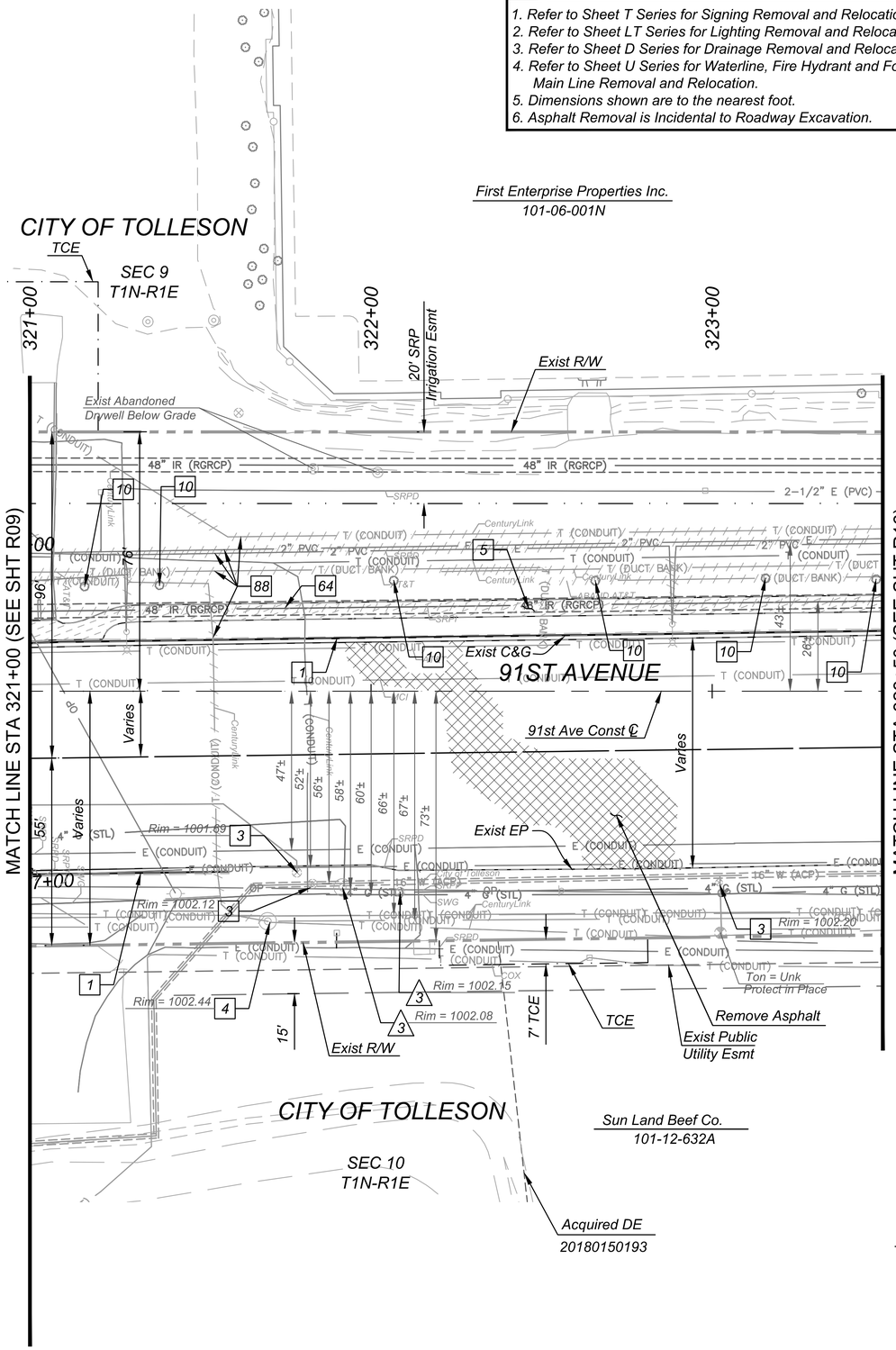
TRACS NO. _____

Plot Time: 5:02:16pm
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R64.dwg

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	130	132	



☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 321+00 to Sta 323+50 Lt Sta 321+00 to Sta 321+58 Rt	309 Lf
3	Adjust Water Valve, Box & Cover Per COP Std Det P-1391, Type A Sta 321+78.39, 53.16' Rt Sta 321+83.17, 56.60' Rt Sta 323+02.32, 56.69' Rt	3 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 321+71, 66' Rt	1 Ea
5	Remove Conc Sidewalk Sta 321+00 to Sta 323+50 Lt	1246 Sf
10	Remove Tree, Diameter > 12" Sta 321+16, 31' Lt Sta 321+38, 31' Lt Sta 322+07, 32' Lt Sta 322+66, 32' Lt Sta 323+16, 33' Lt Sta 323+48, 33' Lt	6 Ea
64	Remove Pipe 48", Backfill and Compact Sta 321+00 to Sta 323+50 Lt	250 Lf
88	Remove Existing Abandoned Conduit	825 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△3	Adjust Existing Southwest Gas Facility by Southwest Gas Sta 322+08.55, 58.87' Rt Sta 321+91.64, 57.50' Rt	

NO.	REVISION	BY	DATE
△1			
△2			
△3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06-21-22 ARIZONA U.S.A.

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 321+00 to Sta 323+50

SHEET R15 OF R17

TRACS NO. _____

Plot Time: 1:02:02am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R65.dwg

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	131	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 323+50 to Sta 326+19 Lt Sta 327+02 to Sta 328+50 Lt	418 Lf
3	Adjust Water Valve, Box & Cover Per COP Std Det P-1391, Type A Sta 325+91.04, 51.40' Rt Sta 325+95.26, 52.52' Rt	2 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 326+62, 8' Lt	1 Ea
5	Remove Conc Sidewalk and Ramps Sta 323+50 to Sta 326+34 Lt Sta 326+78 to Sta 328+50 Lt	2405 Sf
8	Remove Conc Single Curb Sta 326+19 to Sta 326+35 Lt Sta 326+35, 37' Lt to Sta 326+34, 85' Lt Sta 326+74, 83' Lt to Sta 326+78, 38' Lt Sta 326+78 to Sta 327+02 Lt	145 Lf
9	Remove Conc Driveway Sta 326+19 to Sta 327+02 Lt	926 Sf
10	Remove Tree, Diameter > 12" Sta 324+68, 35' Lt Sta 324+89, 35' Lt Sta 325+11, 35' Lt Sta 325+69, 36' Lt Sta 326+20, 35' Lt Sta 327+02, 40' Lt Sta 327+41, 40' Lt Sta 327+68, 40' Lt Sta 328+06, 40' Lt Sta 328+33, 40' Lt	10 Ea
18	Remove AC Pavement Sta 326+35 to Sta 326+72 Lt	153 Sy
64	Remove Pipe 48", Backfill and Compact Sta 323+50 to Sta 328+50 Lt	500 Lf
88	Remove Existing Abandoned Conduit	1779 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△17 Relocate Existing Gate by Others

NO.	REVISION	BY	DATE
△1			
△2			
△3			
△4			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/21/22 ARIZONA U.S.A.

Kimley»Horn

Removal and Utility Adjustment Plans
Sta 323+50 to Sta 328+50

SHEET R16 OF R17

TRACS NO. _____

Plot Time: 1:05:13am
Plot Date: 6/21/2022
Plotted By: sam.hanson
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R66.dwg

NOTES

1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Dimensions shown are to the nearest foot.
6. Asphalt Removal is Incidental to Roadway Excavation.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT0651	132	132	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 328+50 to Sta 329+13 Lt Sta 330+56 to Sta 332+12 Lt Sta 332+51, 67' Lt to Sta 332+51, 72' Lt Sta 332+90, 67' Lt to Sta 332+91, 72' Lt	229 Lf
3	Adjust Water Valve, Box & Cover Per COP Std Det P-1391, Type A Sta 330+25.17, 43.52' Rt	1 Ea
5	Remove Conc Sidewalk and Ramps Sta 328+50 to Sta 329+48 Lt Sta 330+21 to Sta 332+50 Lt Sta 332+91 to Sta 333+29 Lt	2732 Sf
8	Remove Conc Single Curb Sta 329+12 to Sta 329+52 Lt Sta 329+52, 66' Lt to Sta 329+52, 74' Lt Sta 330+16, 67' Lt to Sta 330+16, 74' Lt Sta 330+16 to Sta 330+56 Lt Sta 332+12 to Sta 332+51 Lt Sta 332+91 to Sta 333+29 Lt	260 Lf
9	Remove Conc Driveway Sta 329+12 to Sta 330+56 Lt Sta 332+12 to Sta 333+29 Lt	5550 Sf
18	Remove AC Pavement Sta 329+52 to Sta 330+16 Lt Sta 332+52 to Sta 332+89 Lt	76 Sy
64	Remove Pipe 48", Backfill and Compact Sta 328+50 to Sta 330+19 Lt	169 Lf
68	Relocate Mailbox Sta 329+50 to Sta 329+38 Lt	1 Ea
88	Remove Existing Abandoned Conduit	748 Lf

△ REMOVAL/RELOCATE BY OTHERS △

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 91ST AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT0651

	BY	DATE
DESIGNED	M. Flood	06/2022
DRAWN	S. Hanson	06/2022
CHECKED	D. Rutkowski	06/2022

Registered Professional Engineer (Civil) CERTIFICATE NO. 75511 MARK FLOOD Date Signed 06/22 ARIZONA U.S.A.

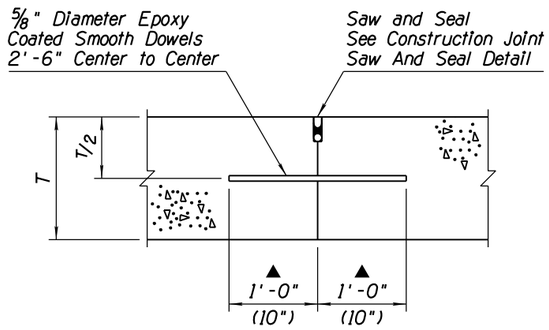
Kimley»Horn

Removal and Utility Adjustment Plans
Sta 328+50 to Sta 333+50

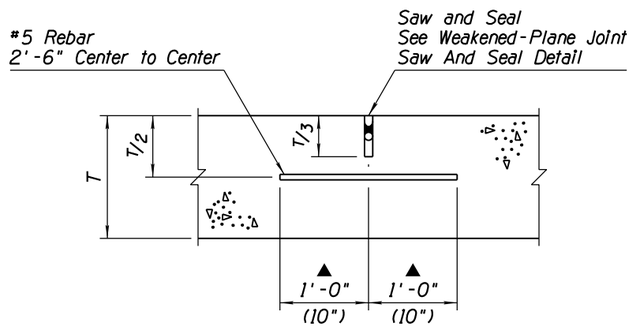
SHEET R17 OF R17

TRACS NO. _____

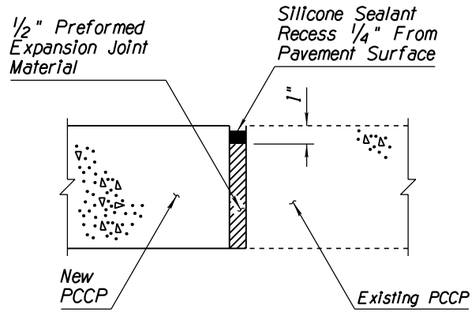
NO	DESCRIPTION OF REVISIONS	MADE BY	DATE
1	ADDED DEFINITION FOR 'PE'	RLF	9/04
2	REVISED DIMENSION FORMAT	RLF	7/05
3	REMOVED 'INITIAL SAWCUT' NOTATION	RLF	7/05
4			



LONGITUDINAL CONSTRUCTION JOINT
LC Joint



LONGITUDINAL WEAKENED-PLANE JOINT
LWP Joint



EXPANSION JOINT
H Joint

GENERAL NOTES

▲ 1. When load transfer dowel assemblies are required, use dimensions shown in ( )'s. See Assembly Placement And Edge Clearance Detail, Std Dwg C-07.02.

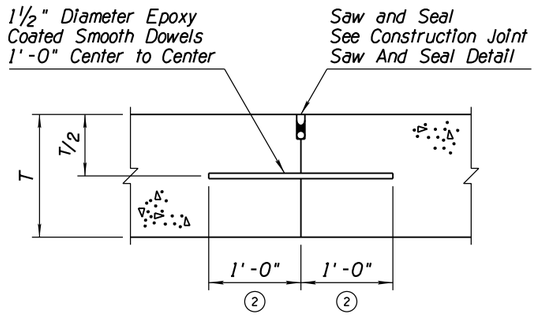
2. In slip form type pavement construction, LWP joints shall be used. In fixed form construction either LWP or LC joints may be used.

3. K joints shall be constructed around the complete perimeter of miscellaneous structures, or as directed by the Engineer.

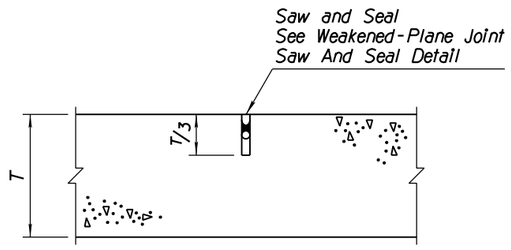
4. Miscellaneous structures include, but are not limited to, catch basins, sign structure foundations, piers, abutments, barrier transitions, slotted drains and other concrete facilities, constructed within the right-of-way.

JOINT ABBREVIATIONS

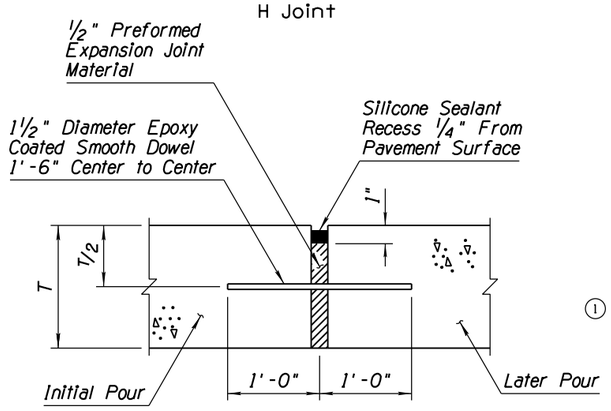
LWP	-	Longitudinal Weakened-Plane Joint
TWP	-	Transverse Weakened-Plane Joint
LC	-	Longitudinal Construction Joint
TC	-	Transverse Construction Joint
E, H, K	-	Expansion Joints
S	-	AC/PCCP Edge-Seal Joint
T	-	PCCP Thickness
① PE	-	Polyethylene



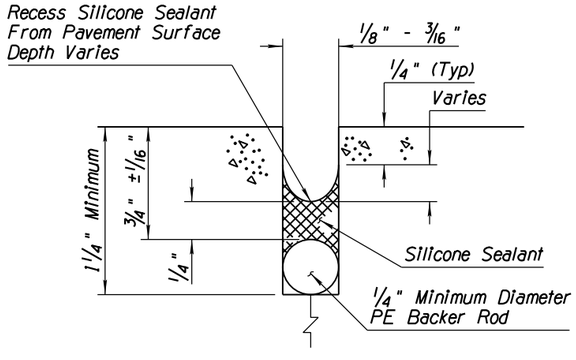
TRANSVERSE CONSTRUCTION JOINT
TC Joint
Non-Skewed & Skewed Joints



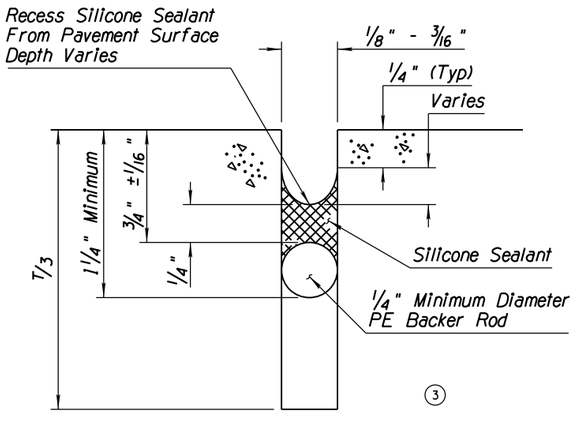
TRANSVERSE WEAKENED-PLANE JOINT
TWP Joint
W/O Load Transfer Dowel Assemblies



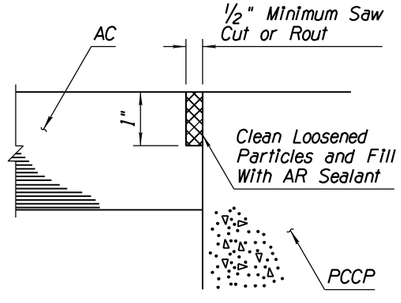
EXPANSION JOINT
E Joint



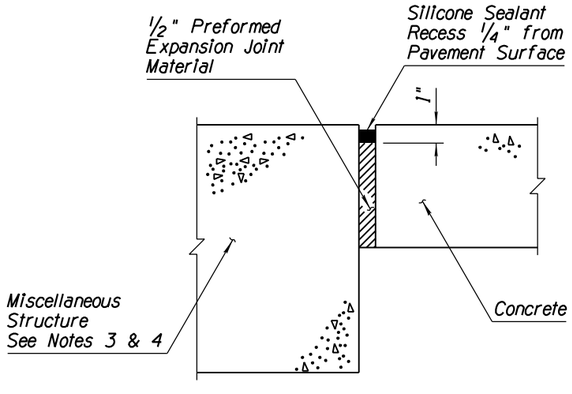
CONSTRUCTION JOINT
SAW AND SEAL DETAIL



WEAKENED-PLANE JOINT
SAW AND SEAL DETAIL



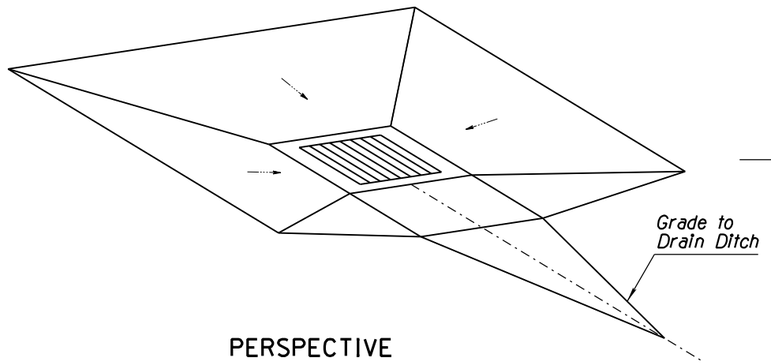
AC/PCCP EDGE-SEAL JOINT
S Joint
(Where Specified on Plans)



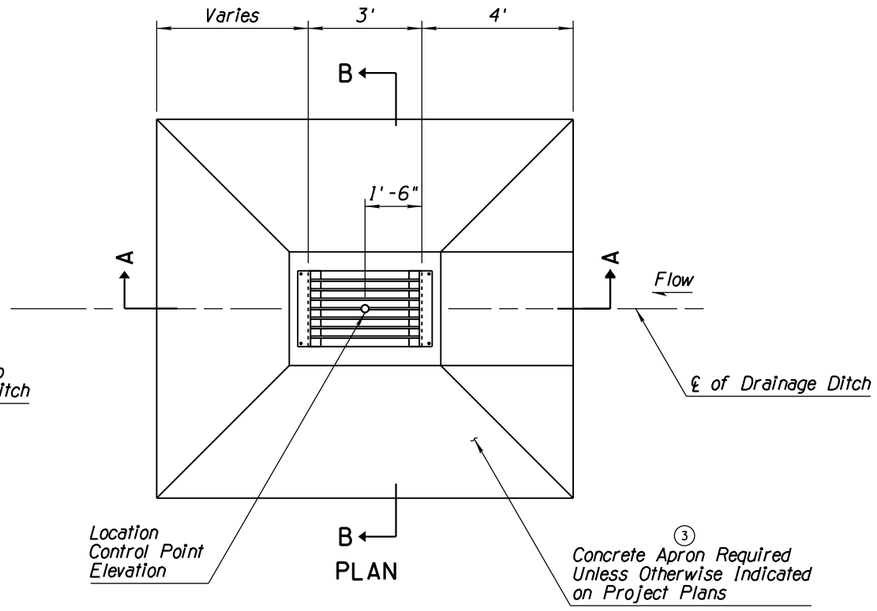
EXPANSION JOINT
K Joint (See Notes 3 & 4)

APPROVED FOR DESIGN	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY STANDARD DRAWINGS	REV. 5/12
APPROVED FOR DISTRIBUTION	PCCP JOINTS	DRAWING NO. C-07.01 Sheet 1 of 2

NO	DESCRIPTION OF REVISIONS	MADE BY	DATE
1	REVISED CLEAR COVER	RLF	9/04
2	REVISED THICKNESS SPECIFICATION	RLF	9/04
3	ADDED CONCRETE REQUIREMENT	RLF	9/04
4			



PERSPECTIVE



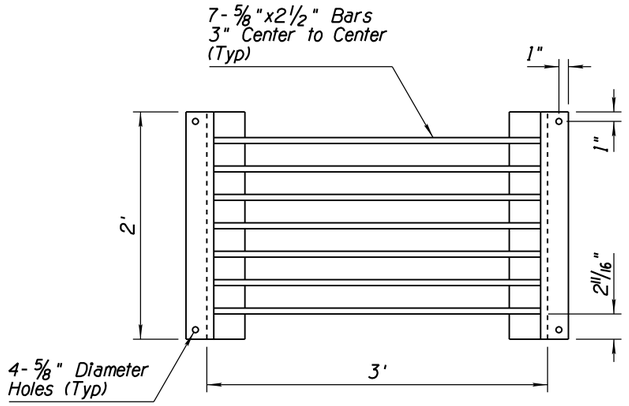
PLAN

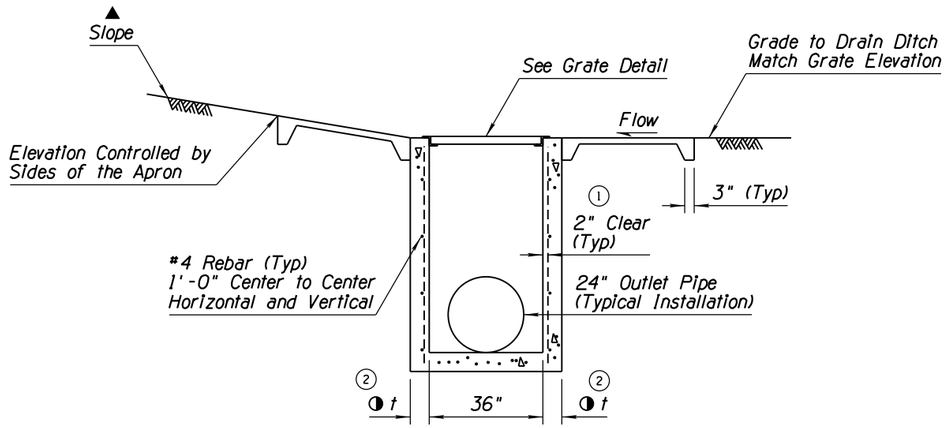
GENERAL NOTES

1. All concrete shall be Class B.
2. Grate and frame shall be fabricated of structural steel in accordance with ASTM A36.
3. All welding shall be in accordance with Std Spec 604-3.06.
4. Grate assembly shall be given one shop coat of Number 1 paint.

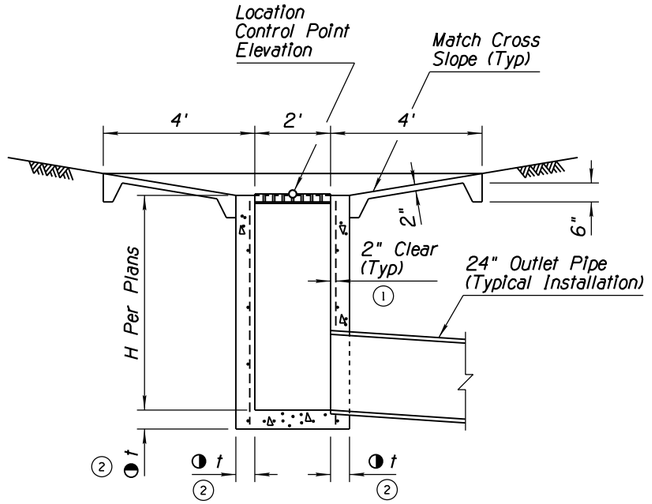
▲ Apron slopes shall match the natural flow line of the ditch. No additional depression will be allowed.

② ◑t = 6" when H is 8' or less
8" when H is greater than 8'

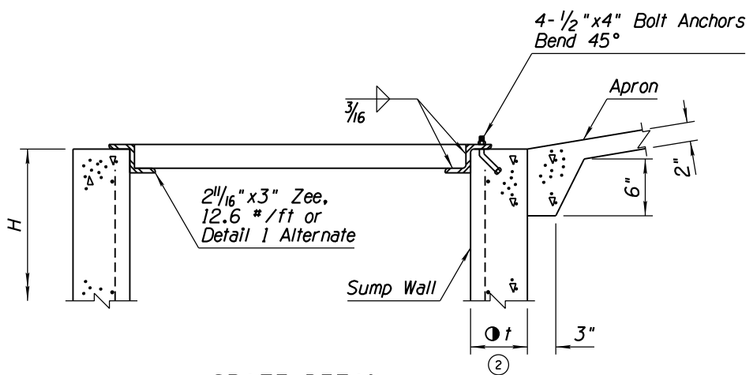




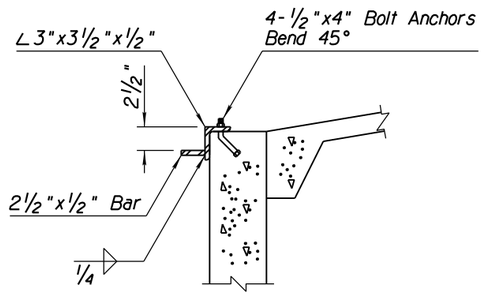
SECTION A-A



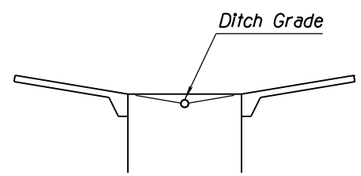
SECTION B-B



GRATE DETAIL

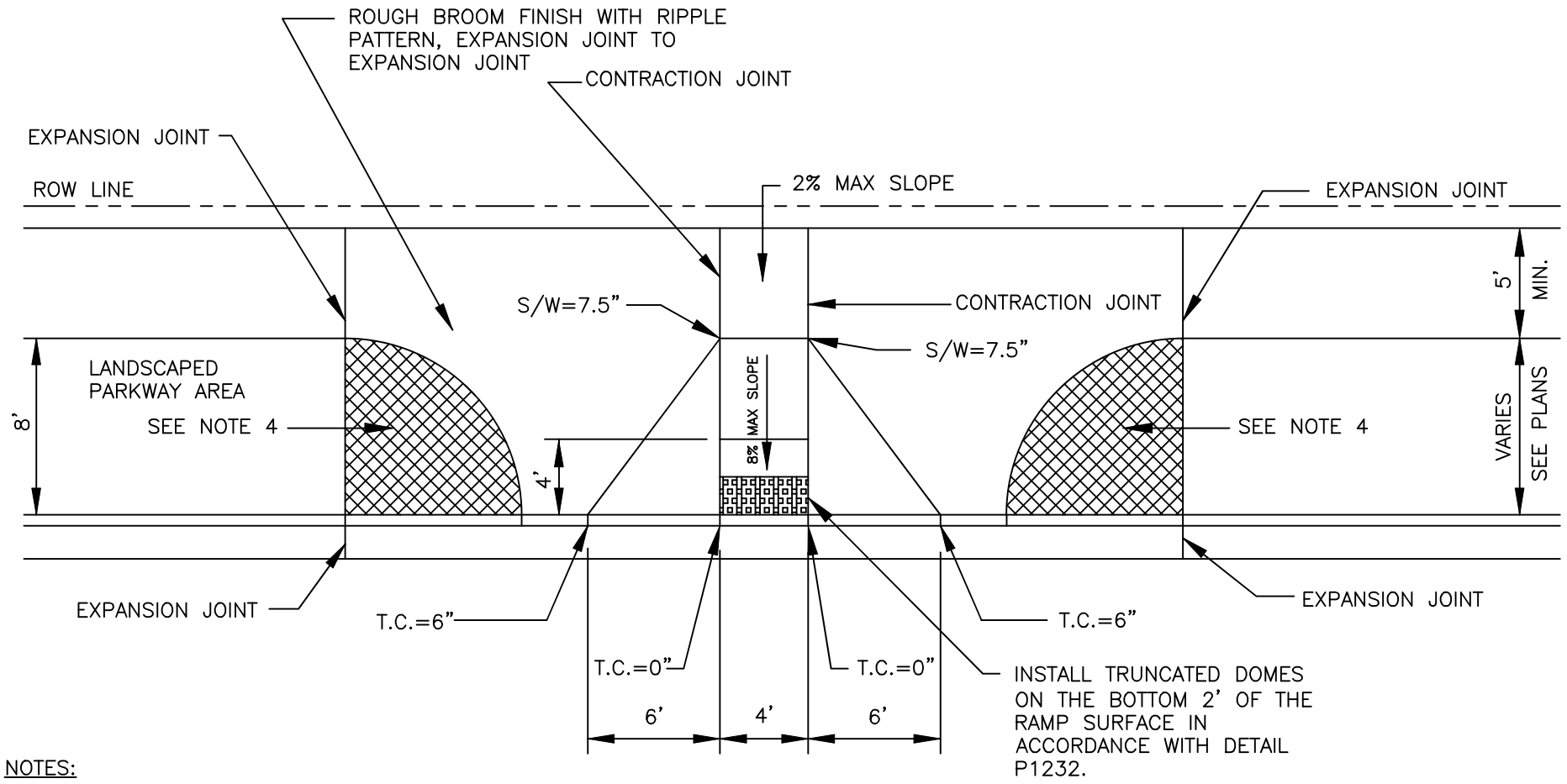


DETAIL 1



DITCH GRADE DETAIL

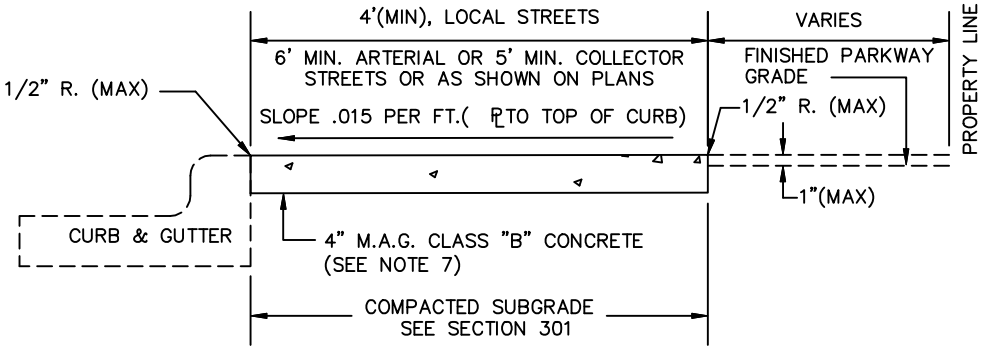
APPROVED FOR DESIGN	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY STANDARD DRAWINGS	REV. 5/12
APPROVED FOR DISTRIBUTION	CATCH BASIN FLUSH	DRAWING NO. C-15.80

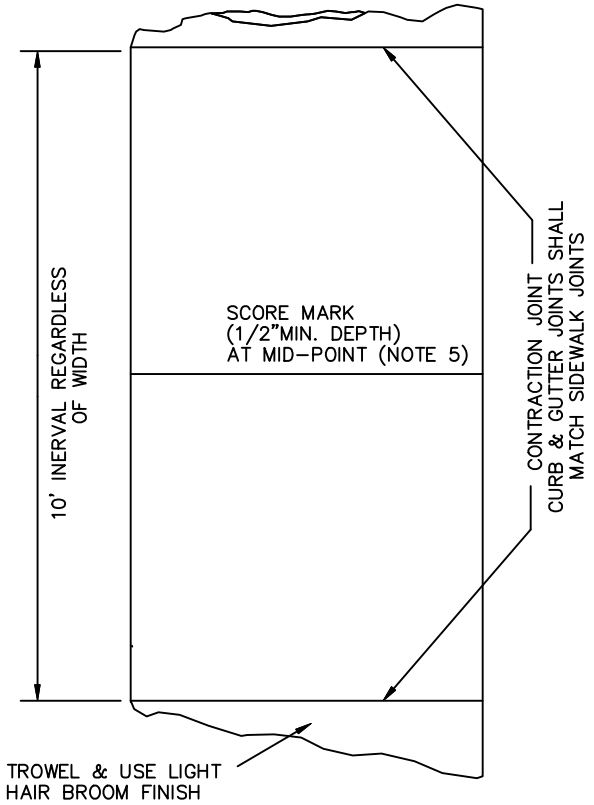


NOTES:

1. CONTROL ELEVATIONS SHOWN ARE IN RELATION TO THE GUTTER. GUTTER ELEVATION = 0".
2. CLASS "A" CONCRETE TO BE USED AS PER SECTION 725.
3. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER A.S.T.M. D-1751.
4. ADDITIONAL SIDEWALK PER NOTE 2 WHEN SIGNAL POLES ARE LOCATED IN THESE AREAS.
5. DETAIL PROVIDED FOR GENERAL GUIDANCE. RAMP ELEVATIONS, SCOPES, AND DISTANCES TO BE PROVIDED ON SEALED CONSTRUCTION DOCUMENTS.

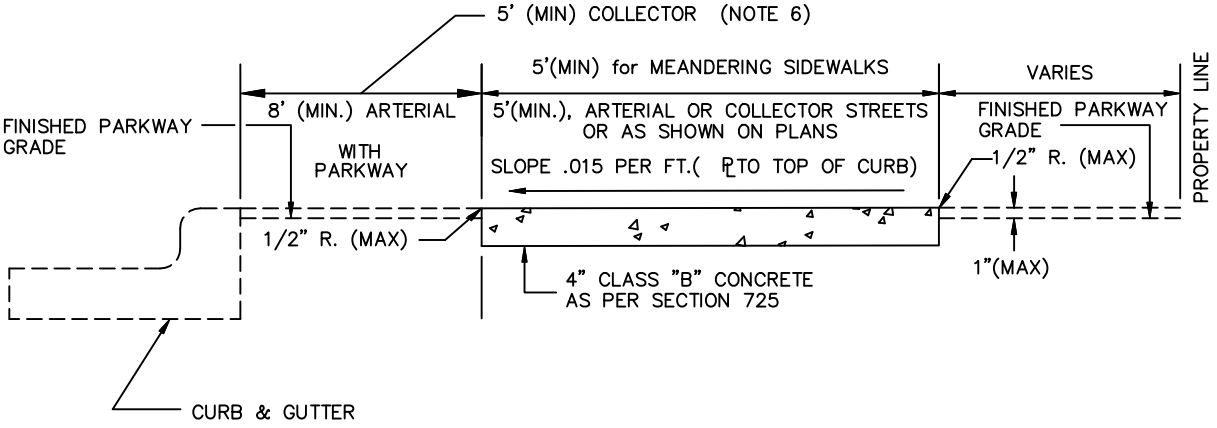
DETAIL NO.			APPROVED	DETAIL NO.
P1241-2	City of Phoenix STANDARD DETAIL	CURB RAMP DETAIL (MID BLOCK) WITH DETACHED SIDEWALK	CITY ENGINEER 04/01/2022 DATE	P1241-2

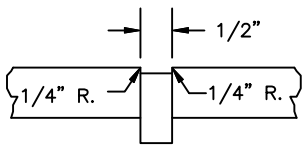




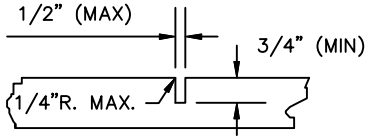
NOTES:

1. SIDEWALK CONSTRUCTION SHALL CONFORM TO SECTION 340.
2. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER, A.S.T.M. D-1751.
3. EXPANSION JOINTS SHALL BE INSTALLED PRIOR TO ALL POURS, AT POINTS OF CURVATURE, AT ADJOINING STRUCTURES, AT DRIVEWAYS AND AT A MAXIMUM SPACING OF 50'. THE EXPANSION JOINT MUST PROVIDE FOR COMPLETE SEPARATION OF THE SIDEWALK FROM ADJOINING CONCRETE.
4. THE EXPANSION JOINT MATERIAL SHALL EXTEND FROM 1/4" BELOW THE TOP SURFACE OF THE SIDEWALK TO 1" INTOTHE SUBGRADE.
5. WHEN SIDEWALK AND ADJACENT CURB ARE INSTALLED MONOLITHICALLY, THE MID-POINT SCORE LINE MUST EXTEND ACROSS THE CURB & GUTTER.
6. EXCEPTION TO BE APPROVED BY CITY ENGINEER.
7. CONCRETE SHALL BE M.A.G. CLASS "A" IN AREAS WITH CROSSING VEHICULAR TRAFFIC.





EXPANSION JOINT

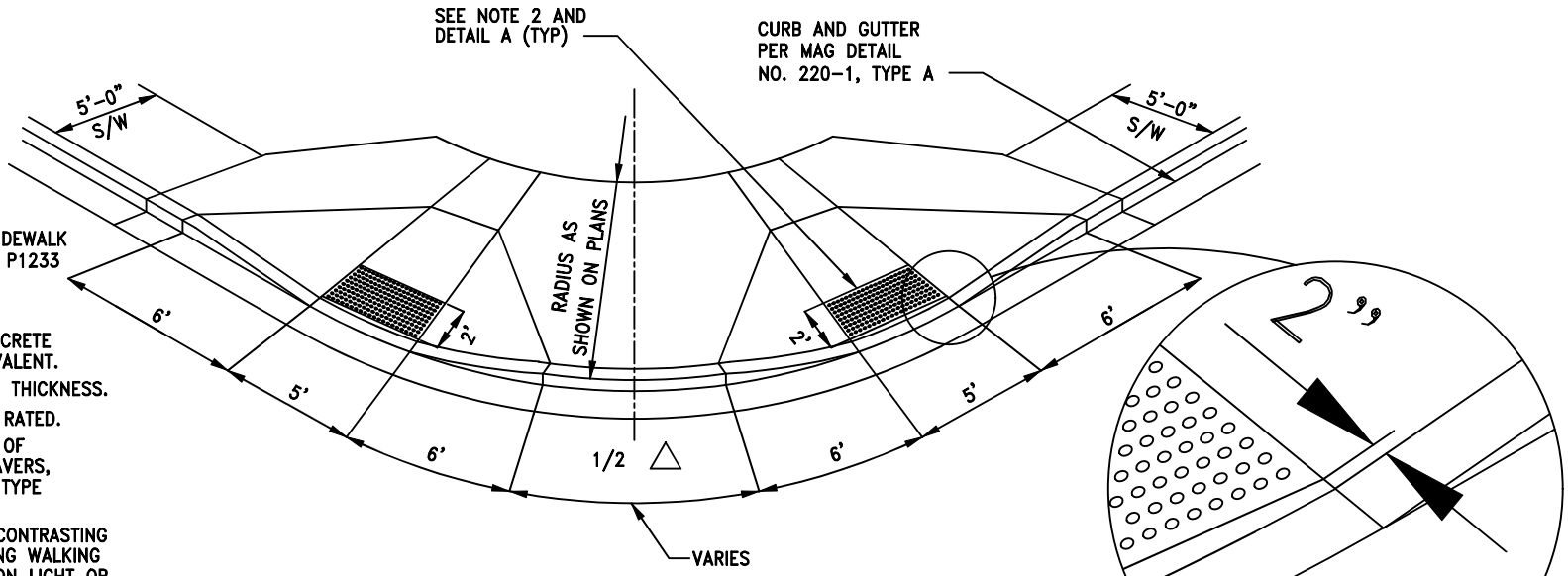


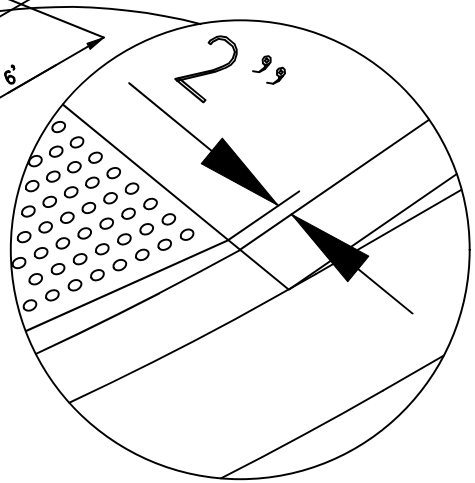
CONTRACTION JOINT

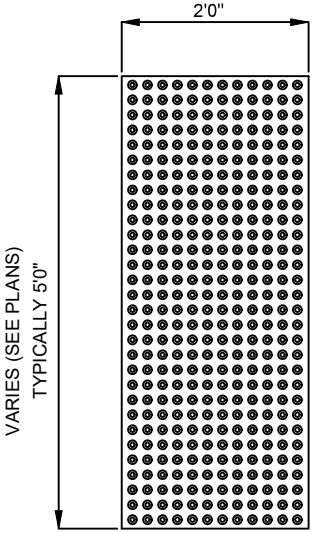
DETAIL NO.			APPROVED	DETAIL NO.
P1230	City of Phoenix STANDARD DETAIL	SIDEWALKS	CITY ENGINEER 07/01/2015 DATE	P1230

NOTES:

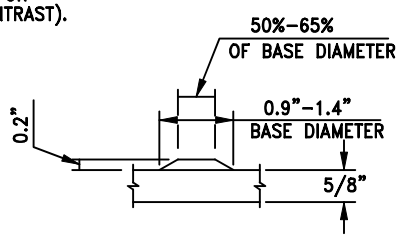
1. CONSTRUCTION DETAILS FOR ALL SIDEWALK RAMPS ARE PRESENTED IN DETAILS P1233 THROUGH P1241-4.
2. DETECTABLE WARNING STRIP:
   - 2.1 SHALL BE OF CONCRETE, CONCRETE POLYMER OR APPROVED EQUIVALENT.
   - 2.2 SHALL HAVE A 5/8" MINIMUM THICKNESS.
   - 2.3 SHALL BE 8000 PSI MINIMUM RATED.
   - 2.4 SHALL NOT BE CONSTRUCTED OF ASPHALT PAVEMENT, BRICK PAVERS, STAMPED CONCRETE, OR ANY TYPE OF GLUE-DOWN MATERIAL.
   - 2.5 DOME AREA SHALL BE OF A CONTRASTING COLOR FROM THE SURROUNDING WALKING AREAS. FOR EXAMPLE, DARK ON LIGHT OR LIGHT ON DARK (MINIMUM OF 70% CONTRAST).



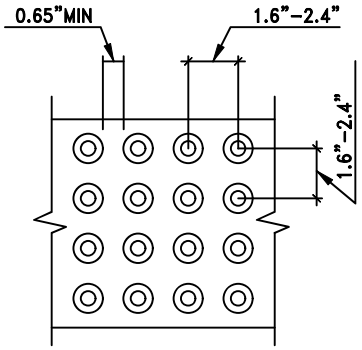




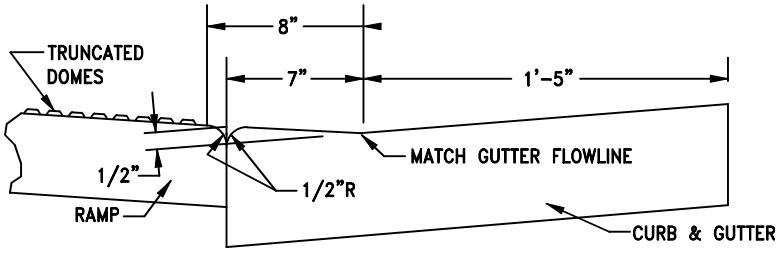
DETECTABLE WARNING STRIP



TRUNCATED DOME ELEVATION



TEXTURE PATTERN DETAIL



DETAIL A (NTS)

ICC / ANSI A117.1-2003
705.5 TRUNCATED DOMES

DETECTABLE WARNING SURFACES SHALL HAVE TRUNCATED DOMES COMPLYING WITH SECTION 705.5 OF THE ICC/ANSI A117.1-2003, PROVIDED BELOW.

705.5.1 SIZE. TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH (23mm) MINIMUM TO 1.4 INCH (36mm) MAXIMUM, AND A TOP DIAMETER OF 50 PERCENT MINIMUM TO 65 PERCENT MAXIMUM OF THE BASE DIAMETER.

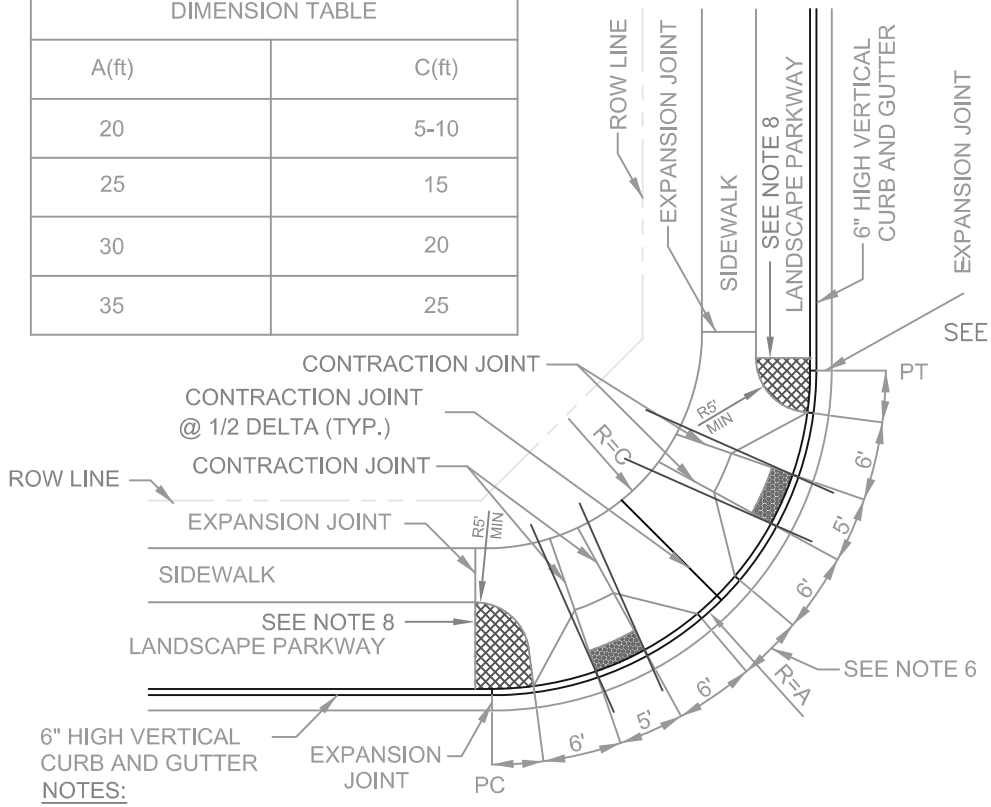
705.5.2 HEIGHT. TRUNCATED DOMES SHALL HAVE A HEIGHT OF 0.2 INCH (5.1mm).

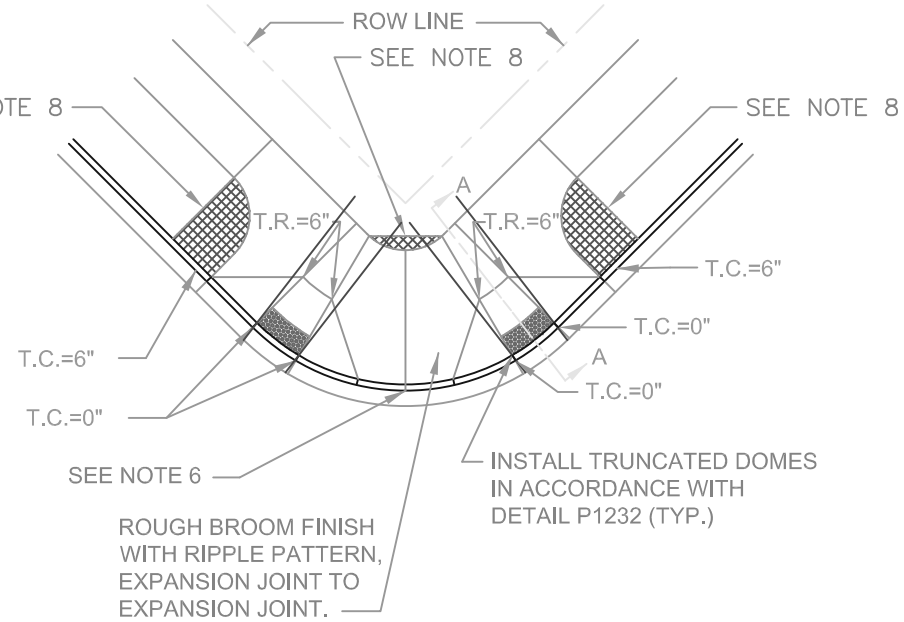
705.5.3 SPACING. TRUNCATED DOMES SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6 INCHES (41mm) MINIMUM TO 2.4 INCHES (61mm) MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65 INCH (16.5mm) MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON THE GRID.

705.5.4 ALIGNMENT. TRUNCATED DOMES SHALL BE ALIGNED IN A SQUARE GRID PATTERN.

DETAIL NO.				DETAIL NO.
P1232	City of Phoenix STANDARD DETAIL	TRUNCATED DOMES DETAIL	APPROVED CITY ENGINEER 04/01/2022 DATE	P1232

DIMENSION TABLE	
A(ft)	C(ft)
20	5-10
25	15
30	20
35	25

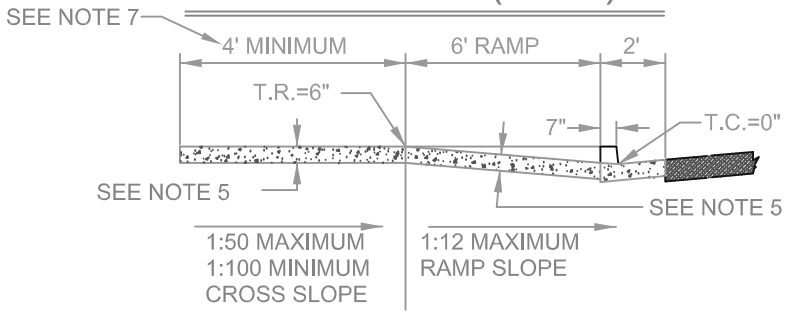




NOTES:

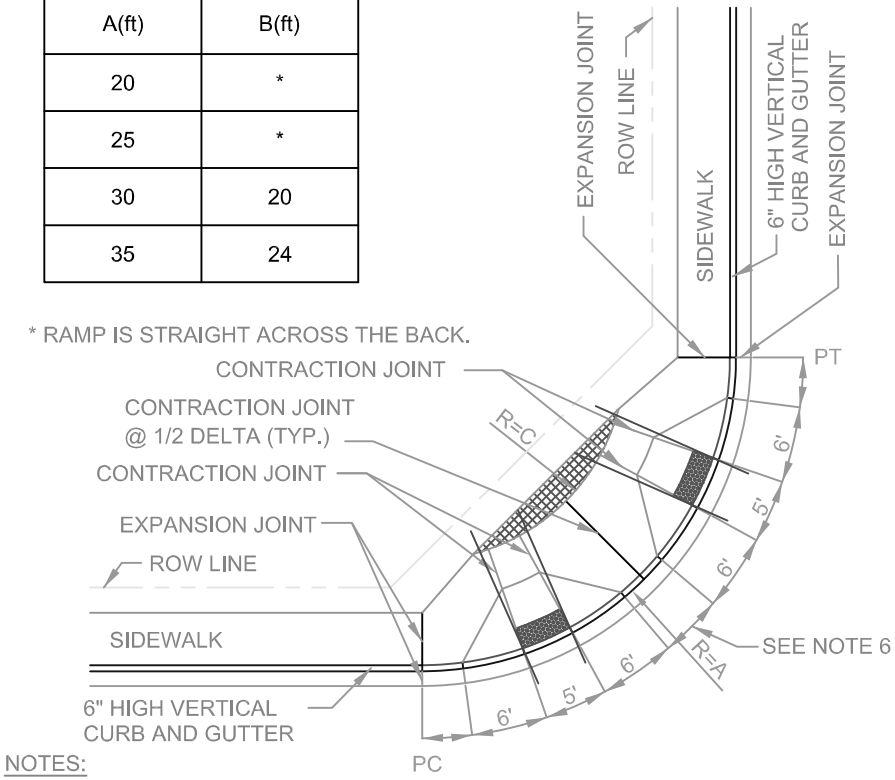
1. CONTROL ELEVATIONS ARE SHOWN IN RELATION TO THE GUTTER AND ARE LOCATED RADIALLY. GUTTER ELEVATION=0".
2. CONCRETE CURB AND GUTTER AT CURB RETURNS WITH RAMPS SHALL BE M.A.G. CLASS A. CONCRETE SIDEWALKS AND RAMPS AT CURB RETURNS SHALL BE M.A.G. CLASS A.
3. RAMP CURBS MAY BE POURED MONOLITHIC WITH A CONTRACTION JOINT.
4. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER A.S.T.M. D-1751
5. 9" THICK LANDING, RAMPS, AND CURBS FROM EXPANSION JOINT TO EXPANSION JOINT ON MAJOR OR COLLECTOR STREETS. 4" THICK LANDING AND RAMPS ON LOCAL STREETS.
6. REDUCE CURB HEIGHT BY 1" MAXIMUM IN ORDER TO ACCOMMODATE A 12" SEPARATION BETWEEN RAMPS.
7. MAINTAIN THE PLANE OF THE LANDING ONE FOOT (1ft.) BEYOND THE TOP OF LANDING.
8. ADDITIONAL SIDEWALK PER NOTE 2 & 5 WHEN SIGNAL POLES ARE LOCATED IN THESE AREAS.
9. DETAIL PROVIDED FOR GENERAL GUIDANCE. RAMP ELEVATIONS, SLOPES, AND DISTANCES TO BE PROVIDED ON SEALED CONSTRUCTION DOCUMENTS.

SECTION A-A (TYP.)

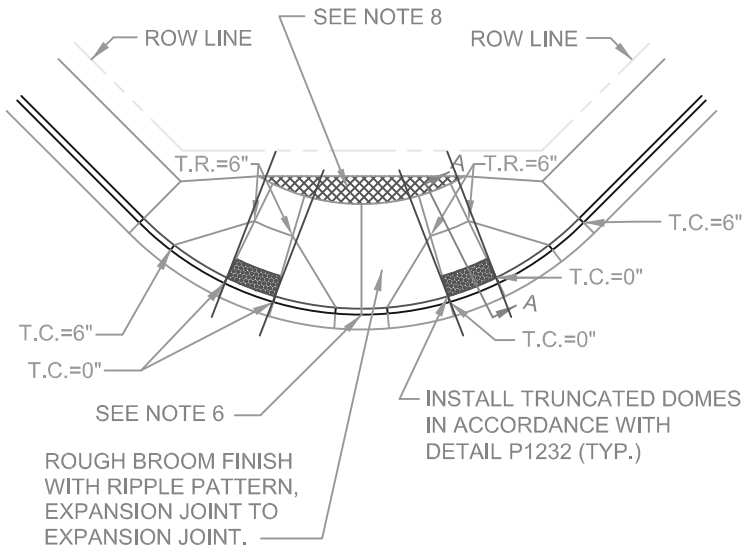


DETAIL NO.				DETAIL NO.
P1233	City of Phoenix STANDARD DETAIL	CURB RAMP DETAIL WITH LANDSCAPE PLANTERS	APPROVED CITY ENGINEER 04/01/2022 DATE	P1233

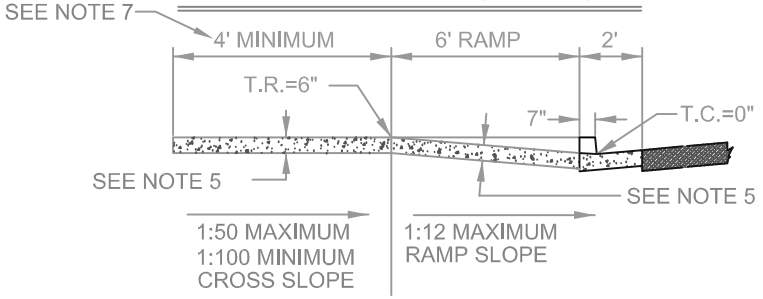
DIMENSION TABLE	
A(ft)	B(ft)
20	*
25	*
30	20
35	24



* RAMP IS STRAIGHT ACROSS THE BACK.



SECTION A-A (TYP.)

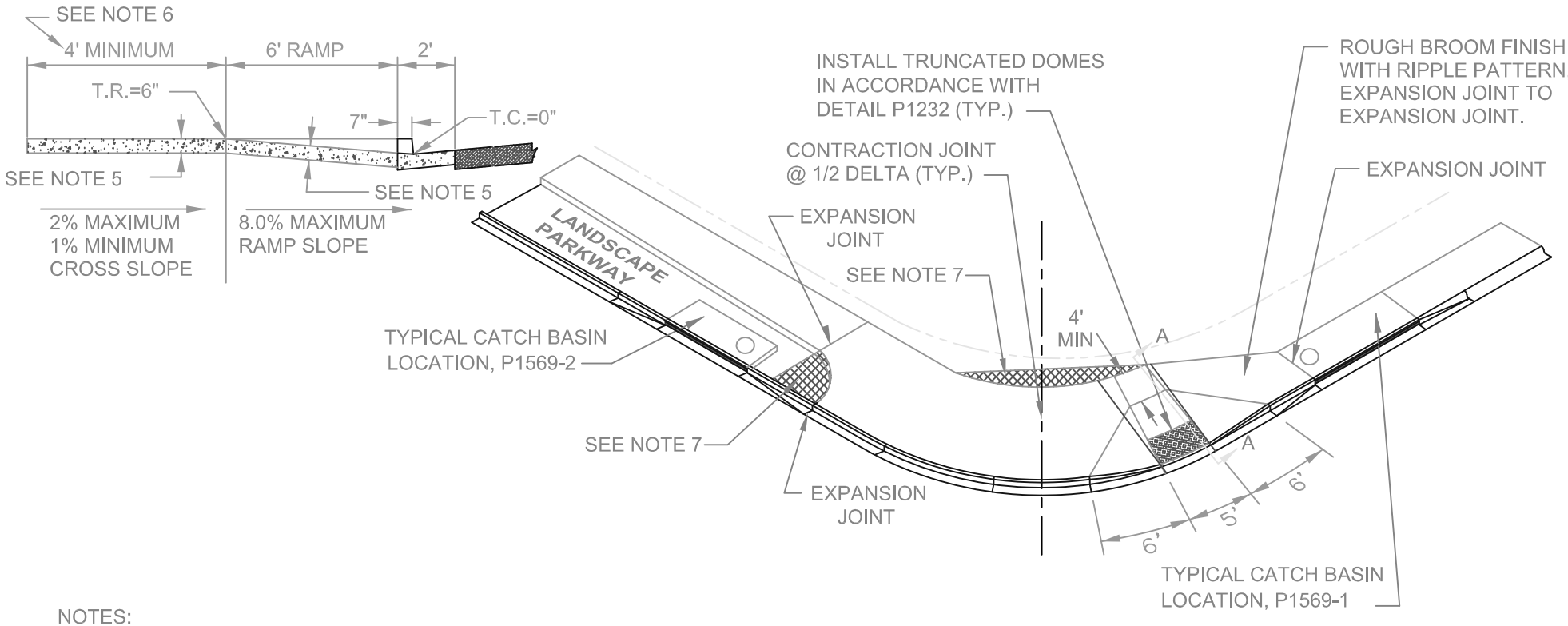


NOTES:

1. CONTROL ELEVATIONS ARE SHOWN IN RELATION TO THE GUTTER AND ARE LOCATED RADIALLY. GUTTER ELEVATION=0".
2. CONCRETE CURB AND GUTTER AT CURB RETURNS WITH RAMPS SHALL BE M.A.G. CLASS A. CONCRETE SIDEWALKS AND RAMPS AT CURB RETURNS SHALL BE M.A.G. CLASS A.
3. RAMP CURBS MAY BE POURED MONOLITHIC WITH A CONTRACTION JOINT.
4. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER A.S.T.M. D-1751
5. 9" THICK LANDING, RAMPS, AND CURBS FROM EXPANSION JOINT TO EXPANSION JOINT ON MAJOR OR COLLECTOR STREETS. 4" THICK LANDING AND RAMPS ON LOCAL STREETS.
6. REDUCE CURB HEIGHT BY 1" MAXIMUM IN ORDER TO ACCOMMODATE A 12" SEPARATION BETWEEN RAMPS.
7. MAINTAIN THE PLANE OF THE LANDING ONE FOOT (1ft.) BEYOND THE TOP OF LANDING.
8. ADDITIONAL SIDEWALK PER NOTE 2 & 5 WHEN SIGNAL POLES ARE LOCATED IN THESE AREAS.
9. DETAIL PROVIDED FOR GENERAL GUIDANCE. RAMP ELEVATIONS, SLOPES, AND DISTANCES TO BE PROVIDED ON SEALED CONSTRUCTION DOCUMENTS.

DETAIL NO.	City of Phoenix STANDARD DETAIL	CURB RAMP DETAIL NO LANDSCAPE PLANTERS	APPROVED CITY ENGINEER 04/01/2022 DATE	DETAIL NO.
P1236				P1236

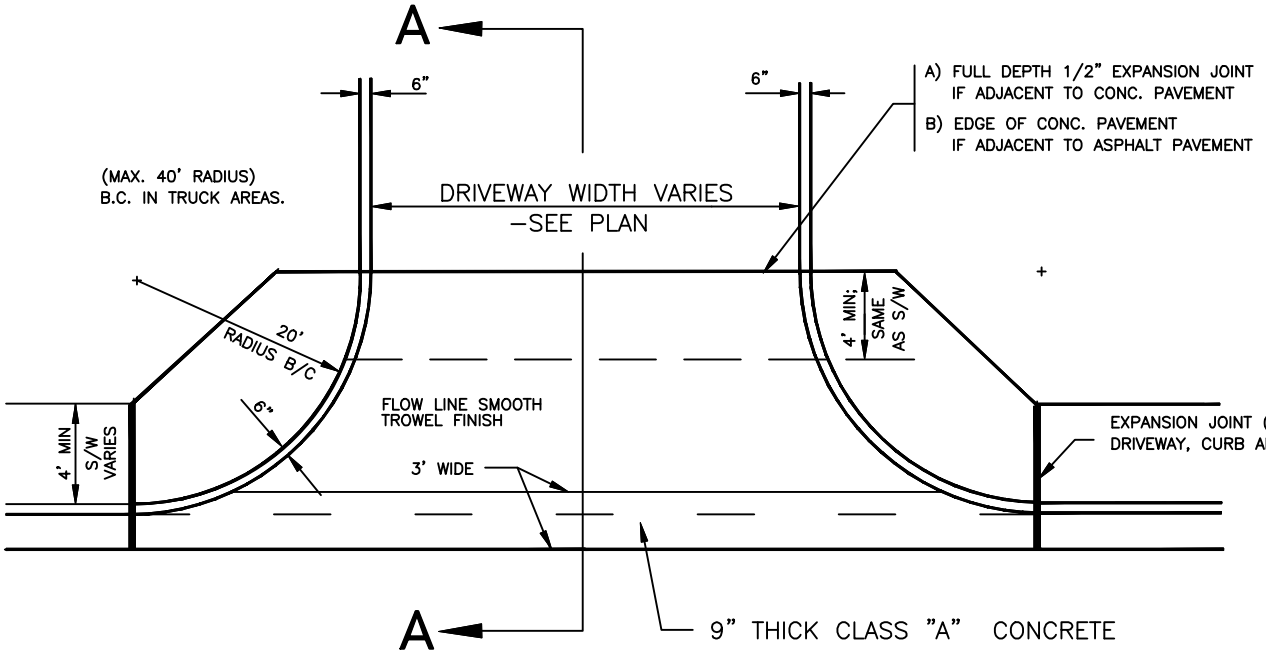
SECTION A-A (TYP.)

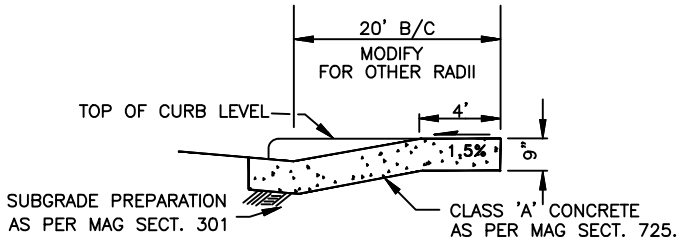


NOTES:

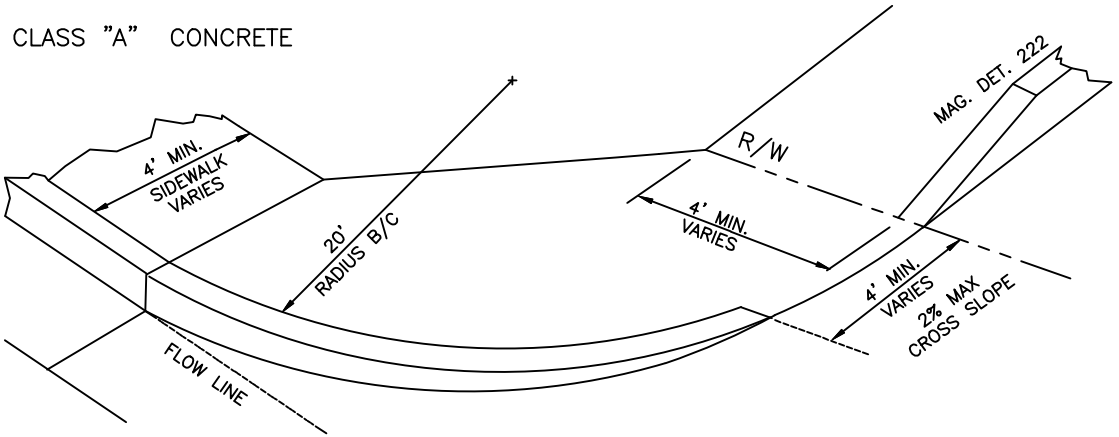
1. CONTROL ELEVATIONS ARE SHOWN IN RELATION TO THE GUTTER AND ARE LOCATED RADIALLY. GUTTER ELEVATION=0".
2. CONCRETE CURB AND GUTTER AT CURB RETURNS WITH RAMPS SHALL BE M.A.G. CLASS A. CONCRETE SIDEWALKS AND RAMPS AT CURB RETURNS SHALL BE M.A.G. CLASS A.
3. RAMP CURBS MAY BE POURED MONOLITHIC WITH A CONTRACTION JOINT.
4. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER A.S.T.M. D-1751
5. 9" THICK LANDING, RAMPS, AND CURBS FROM EXPANSION JOINT TO EXPANSION JOINT ON MAJOR OR COLLECTOR STREETS. 4" THICK LANDING AND RAMPS ON LOCAL STREETS.
6. MAINTAIN THE PLANE OF THE LANDING ONE FOOT (1ft.) BEYOND THE TOP OF LANDING.
7. ADDITIONAL SIDEWALK PER NOTE 2 & 5 WHEN SIGNAL POLES ARE LOCATED IN THESE AREAS.
8. DETAIL PROVIDED FOR GENERAL GUIDANCE. RAMP ELEVATIONS, SLOPES, AND DISTANCES TO BE PROVIDED ON SEALED CONSTRUCTION DOCUMENTS. .

DETAIL NO.				DETAIL NO.
P1240	City of Phoenix STANDARD DETAIL	SINGLE CURB RAMP DETAIL ALL RADIUS CURB RETURNS	APPROVED CITY ENGINEER 04/01/2022 DATE	P1240





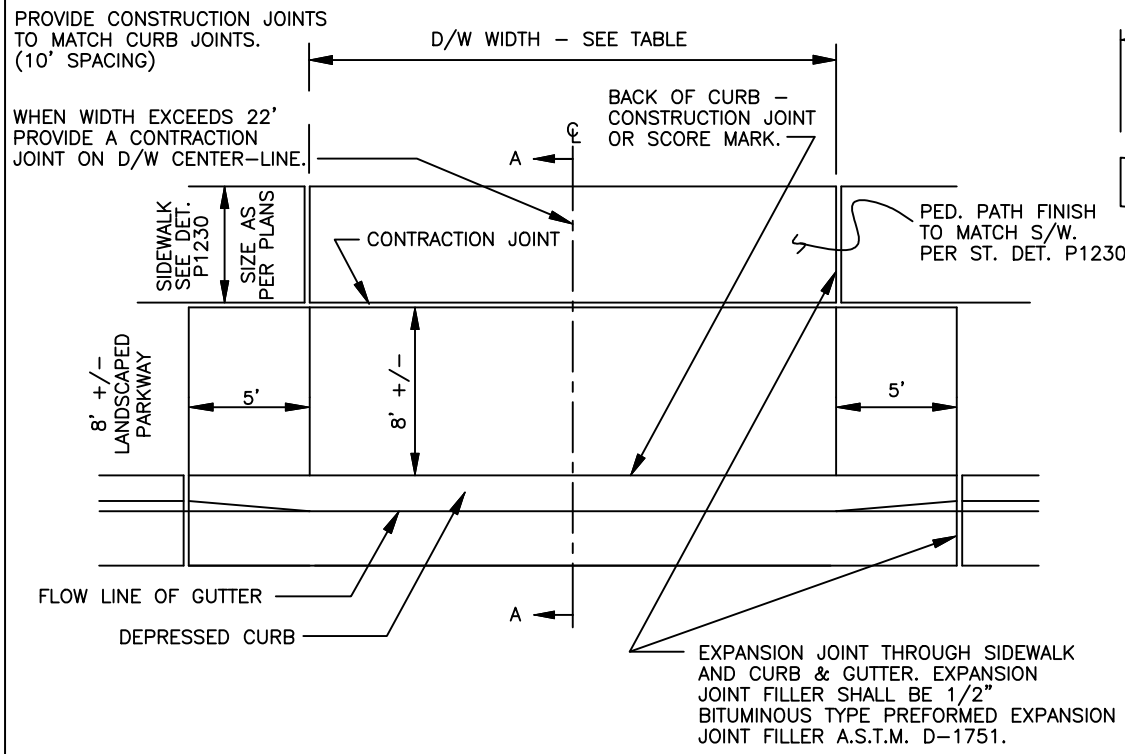
SECTION A–A

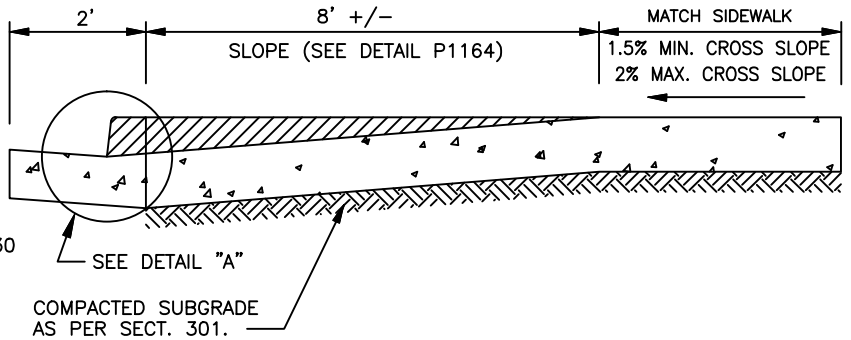


NOTES:

1. CONTROL ELEVATIONS ARE IN RELATION TO THE GUTTER AND ARE LOCATED RADIALLY. GUTTER ELEVATION = 0".
2. CONCRETE CURB & GUTTER AT CURB RETURNS WITH RAMPS SHALL BE M.A.G. CLASS A. CONCRETE SIDEWALK AND RAMPS AT CURB RETURNS SHALL BE M.A.G. CLASS A.
3. RAMP CURBS MAY BE POURED MONOLITHIC WITH A CONSTRUCTION JOINT.
4. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER A.S.T.M. D–1751
5. MEASUREMENT AND PAYMENT FOR CONCRETE DRIVEWAY SHALL BE BY THE SQUARE FOOT OF 9" CLASS "A" CONCRETE PLACED. MEASUREMENT AND PAYMENT FOR THE CURB RETURNS AND THE SIDEWALK AT THE RETURNS SHALL BE MADE UNDER THEIR SEPARATE PAY ITEMS.

DETAIL NO.	City of Phoenix STANDARD DETAIL	RETURN TYPE DRIVEWAYS WITH ATTACHED SIDEWALK	APPROVED CITY ENGINEER — DATE 7/19/04	DETAIL NO.
P1243				P1243

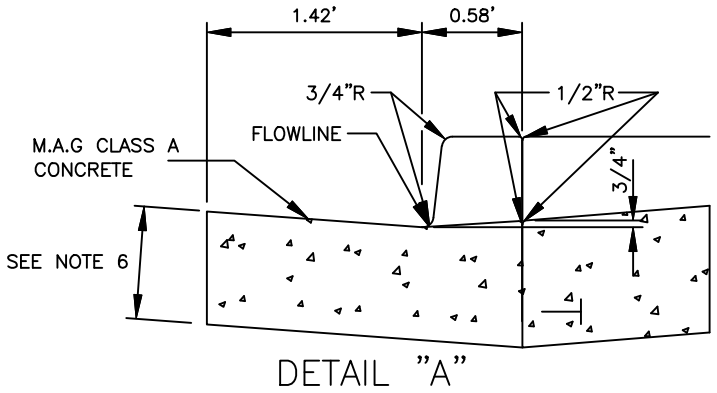




SECTION A–A

NOTES

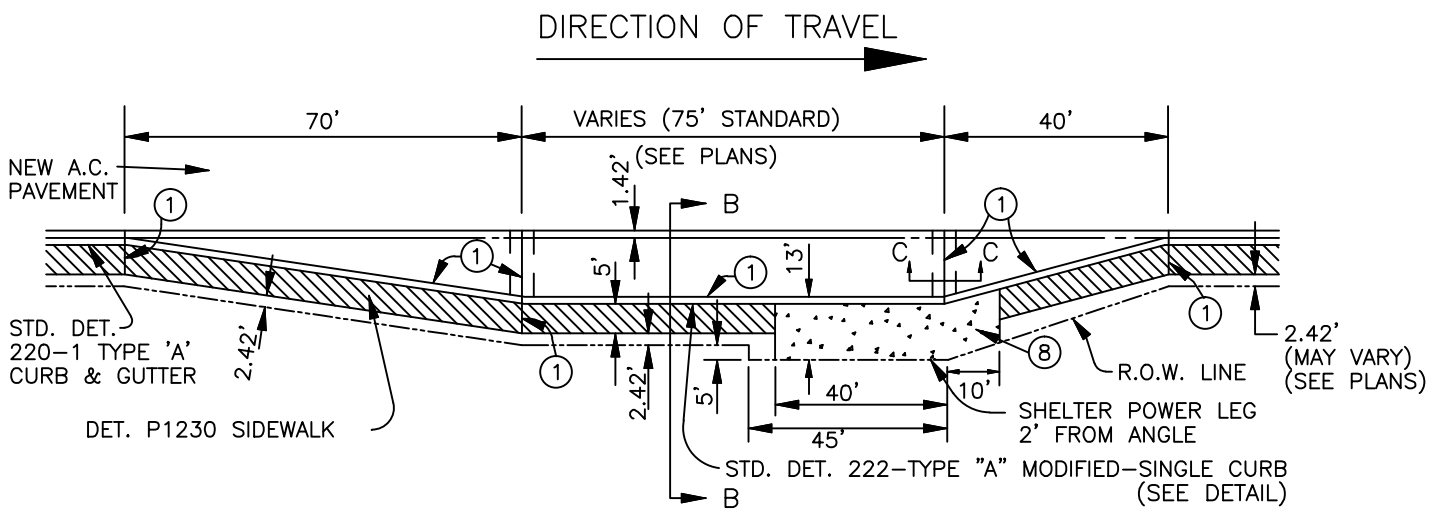
1. DEPRESSED CURB SHALL BE PAID FOR AS COMBINED CURB AND GUTTER.
2. CONCRETE CURB & GUTTER SHALL BE M.A.G. CLASS A; TOP OF WING TO TOP OF WING.
3. PAYMENT FOR DRIVEWAY SHALL BE ON A SQUARE FOOT BASIS.
4. EXPANSION JOINT MATERIAL SHALL BE SECURED IN PLACE PRIOR TO POURING CONCRETE AND SHALL COMPLETELY SEPARATE THE DRIVEWAY SLAB FROM THE SIDEWALK, EXTENDING FROM THE SURFACE TO THE SUBGRADE.
5. WHEN DRIVEWAY IS CONSTRUCTED AT A "T" INTERSECTION AND IS USED AS A RAMP, THE SLOPE OF THE DRIVEWAY SHALL BE A MAX OF 12:1, AND WILL HAVE TRUNCATED DOMES INSTALLED AT THE BACK OF CURB IN A 2–FT DEEP BY 5–FT WIDE AREA LOCATED AT EITHER THE RIGHT OR LEFT END OF THE DRIVEWAY ENTRANCE, WHICHEVER WILL PROVIDE THE MOST DIRECT ALIGNMENT WITH THE RECEIVER CURB RAMP ON THE OPPOSITE CURB. TRUNCATED DOMES TO BE IN ACCORDANCE WITH DETAIL P1232.
6. 9" CLASS "A" CONCRETE FOR COMMERCIAL AND INDUSTRIAL DRIVEWAYS AND 6" CLASS "A" CONCRETE FOR RESIDENTIAL DRIVEWAYS, AS PER SECT. 725.



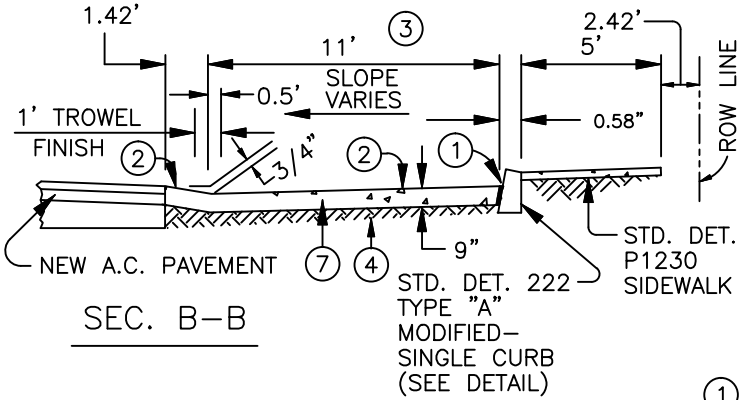
DETAIL "A"

Refer to P1255–4 for Driveway Widths Policy

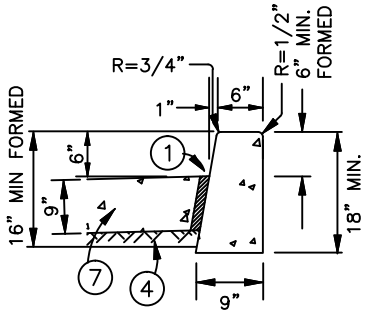
DETAIL NO.			APPROVED	DETAIL NO.
P1255–2	City of Phoenix STANDARD DETAIL	DRIVEWAY ENTRANCE – TYPE II (DETACHED SIDEWALK)	ACTING CITY ENGINEER 7/31/08 DATE	P1255–2



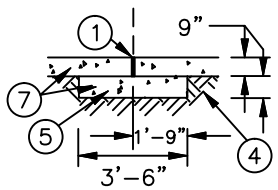
PLAN VIEW



SEC. B-B



STD. DET. 222-TYPE "A" MOD. SINGLE CURB

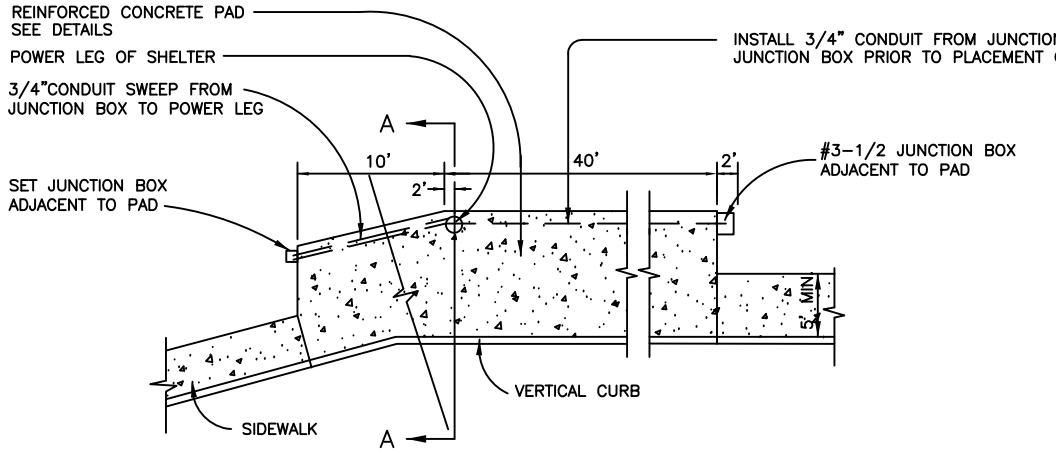


SEC. C-C

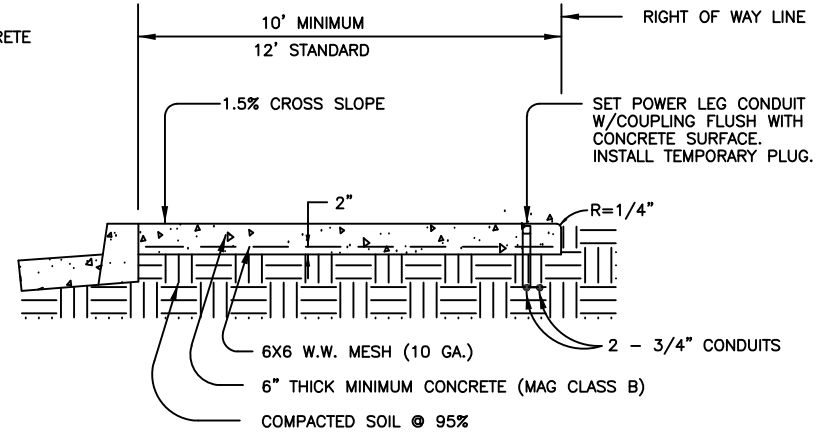
NOTES:

1. 1/2" BITUMINOUS PREFORMED EXPANSION JOINT FILLER, A.S.T.M. D-1751
2. CONCRETE BUS BAY PAVEMENT SHALL BE BROOM FINISHED, EXCEPT WHERE OTHERWISE NOTED.
3. MAY BE REDUCED TO 10' MINIMUM IF APPROVED BY CITY.
4. SUBGRADE PREPARATION PER SPECIFICATIONS.
5. CONCRETE PAD TO BE POURED SEPARATELY FROM CONCRETE BUS BAY PAVEMENT. (SEE SECTION C-C)
6. CONTRACTION JOINTS IN THE BUS BAY PAVEMENT SHALL MATCH THOSE IN THE CURB.
7. CONCRETE SHALL BE CLASS "A" PER M.A.G. SPECS. OR CLASS "S", F'C = 3000 PSI PER A.D.O.T. SPECS.
8. BUS SHELTER PAD, SEE DETAIL P1261
9. DRIVEWAYS SHALL NOT BE LOCATED WITHIN THE SHELTER PAD AREA.
10. CAN BE USED AT INTERSECTIONS WITH TOTAL ROADWAY WIDTHS OF 74' OR LARGER.

DETAIL NO.	City of Phoenix STANDARD DETAIL	BUS BAY (TYPE 1)	APPROVED ACTING CITY ENGINEER 7/31/08 DATE	DETAIL NO.
P1256-1				P1256-1



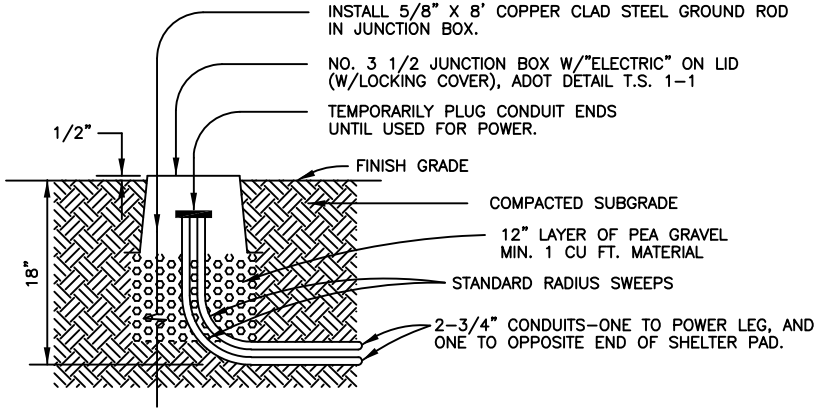
PLAN VIEW



SECTION A - A

NOTES:

1. ACTUAL PLAN LAYOUT MAY VARY. ALL OTHER DETAIL INFORMATION REMAINS THE SAME. SEE PLANS FOR SPECIFIC LOCATIONS AND DIMENSIONS OF BUS SHELTER PAD.
2. ANY SHELTER OR BUS STOP FURNITURE PLACEMENT SHALL BE LOCATED TO PROVIDE A MIN. 5 ft. WIDE CLEAR SIDEWALK.
3. DECORATIVE PAVEMENT OPTIONS MAY INCLUDE EXPOSED AGGREGATE 1/4" (NO LARGER) WITH DESIGN STRENGTH OF 4000 PSI MINIMUM. OTHER OPTIONS INCLUDING COLOR (TO MATCH SURROUNDINGS) AND STAMPING WILL BE CONSIDERED. CONCRETE MIX DESIGN THROUGH THE CITY OF PHOENIX MATERIALS LAB. DECORATIVE OPTIONS TO BE APPROVED BY THE CITY OF PHOENIX. PAVERS ARE NOT TO BE USED.
4. ELECTRICAL CONDUITS AND JUNCTION BOXES SHALL NOT BE REQUIRED UNLESS REQUESTED PER CITY OF PHOENIX.
5. ALL CONDUIT SHALL BE P.V.C. SCHEDULE 40, U.L. LISTED.
6. ALL COSTS ASSOCIATED WITH ELECTRICAL AND RELATED ITEMS SHOWN ON THESE DETAILS (CONDUITS, JUNCTION BOXES, GROUND ROD, ETC.) SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEM FOR CONCRETE BUS SHELTER PAD.
7. BUS BAY PAVEMENT, CONCRETE PAD, CONCRETE CURB, SINGLE CURB, CURB & GUTTER, SIDEWALKS, & DRIVEWAYS ARE SEPARATE PAY ITEMS.
8. SHELTER PADS AND DRIVEWAYS SHALL BE LOCATED TO PROVIDE MINIMUM INTERSECTION SIGHT DISTANCE IN ACCORDANCE WITH CURRENT AASHTO STANDARDS (CASE IIIA).
9. MAG CLASS A CONCRETE MAY BE SUBSTITUTED FOR MAG CLASS B CONCRETE WITH 6X6 MESH



SLEEVE SWEEP & JUNCTION BOX DETAIL

DETAIL NO.				DETAIL NO.
P1261	City of Phoenix STANDARD DETAIL	BUS SHELTER/ACCESSORY PAD BUS BAY	APPROVED CITY ENGINEER 04/01/2022 DATE	P1261

NOTES:

1. VALVE OPERATION NUT EXTENSION: SEE DETAIL P1391–1
   EXTENSION TO VALVE STEMS REQUIRED ON ALL VALVES WHERE OPERATING NUT IS OVER 5' BELOW SURFACE. LENGTH TO FIT EACH INSTALLATION.

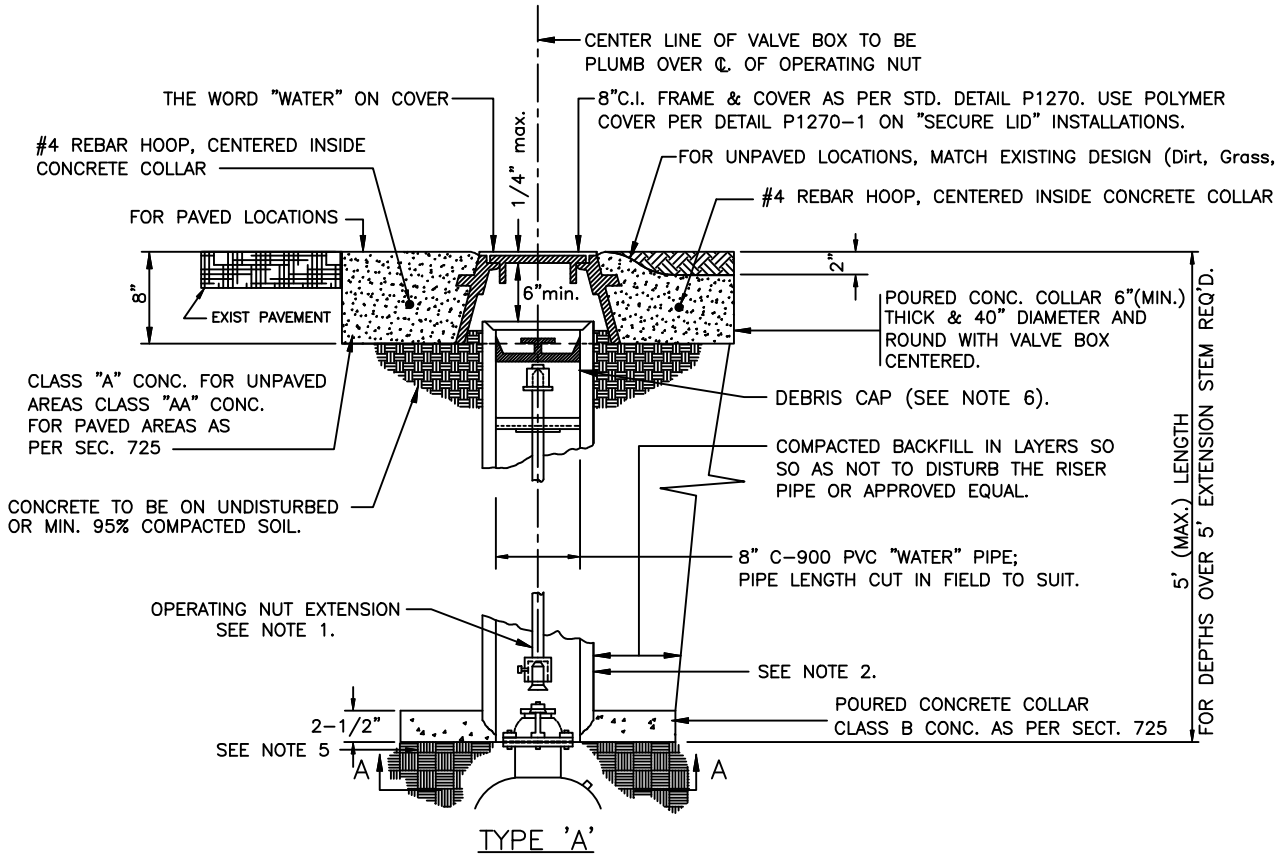
2. IF TWO OR MORE JOINTS OF C900 PVC "WATER" PIPE RISER ARE NEEDED, THEY SHALL BE COUPLED AND GLUED WITH APPROPRIATE PVC GLUE TO FORM A DEBRIS–TIGHT JOINT.

3. VALVE BOX SHALL BE ADJUSTED TO THE FINISH GRADE AFTER PLACING THE ASPHALTIC CONCRETE SURFACE.

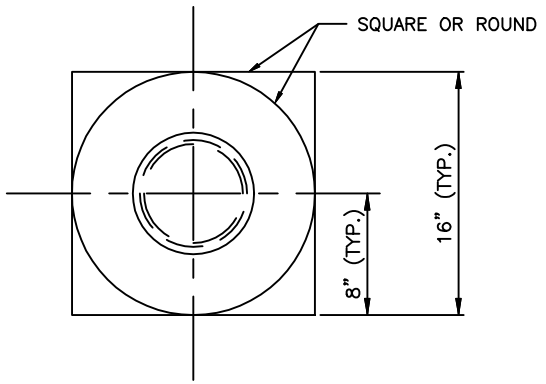
4. USE PARKSON TYLER, APCO, OR EQUAL DEEP SKIRTED COVER LID (4" DEEP OR MORE) C.I. MIN. T.S. 30,000 P.S.I. USE SECURE POLYMER VALVE BOX LID WITH LID–RETENTION ELASTOMERIC SEAL PER DETAIL P1270–1 WHERE "SECURE" LIDS ARE SPECIFIED.

5. GROUND BELOW CONCRETE PAD TO BE COMPACTED TO MIN. 95% OF MAX DENSITY.

6. INSTALL DEBRIS CAP PER DETAIL P1165.

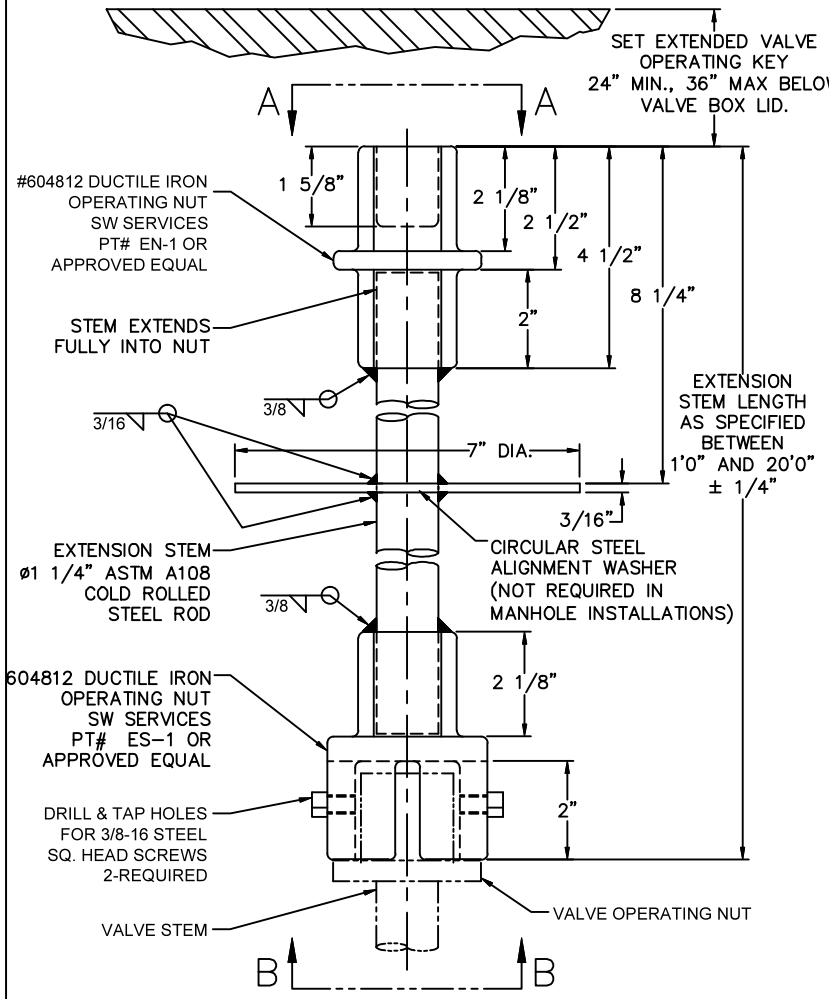


TYPE 'A'

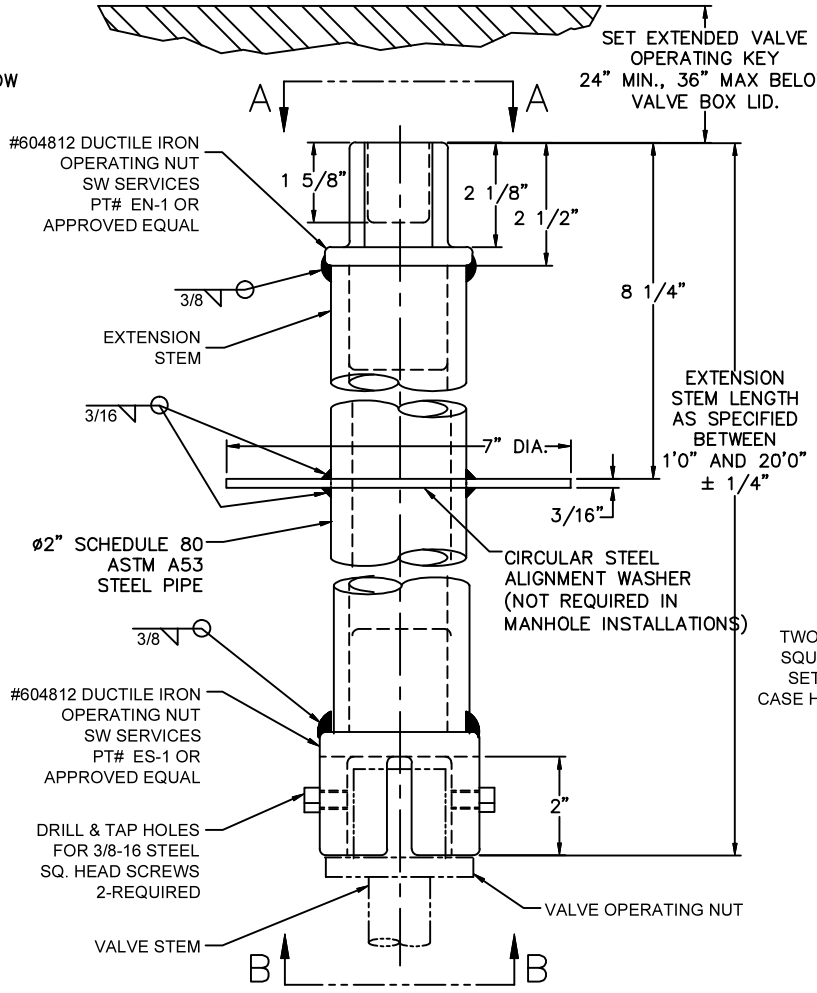


VIEW A–A

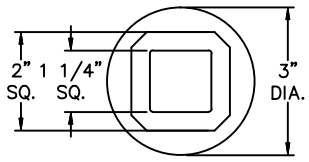
DETAIL NO.			APPROVED	DETAIL NO.
P1391	City of Phoenix STANDARD DETAIL	VALVE BOX INSTALLATION	ACTING CITY ENGINEER — 7/31/08 DATE	P1391



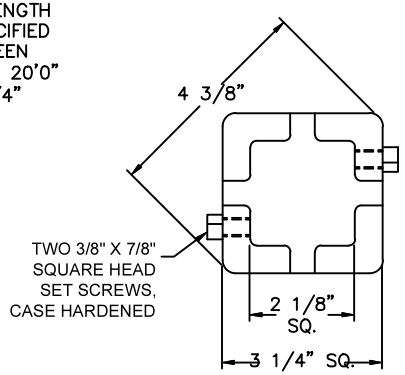
TYPE I
FOR USE WITH GATE VALVES UNDER 12" AND ALL BUTTERFLY VALVES



TYPE II
FOR USE WITH GATE VALVES 12" AND UP



VIEW A–A

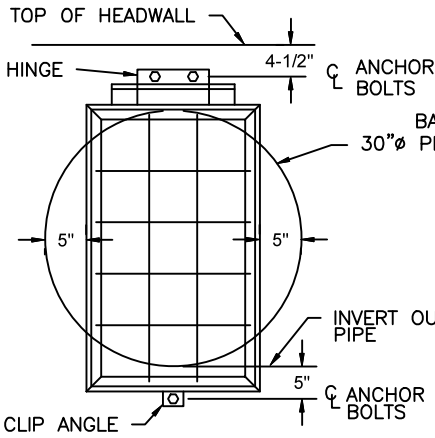


VIEW B–B

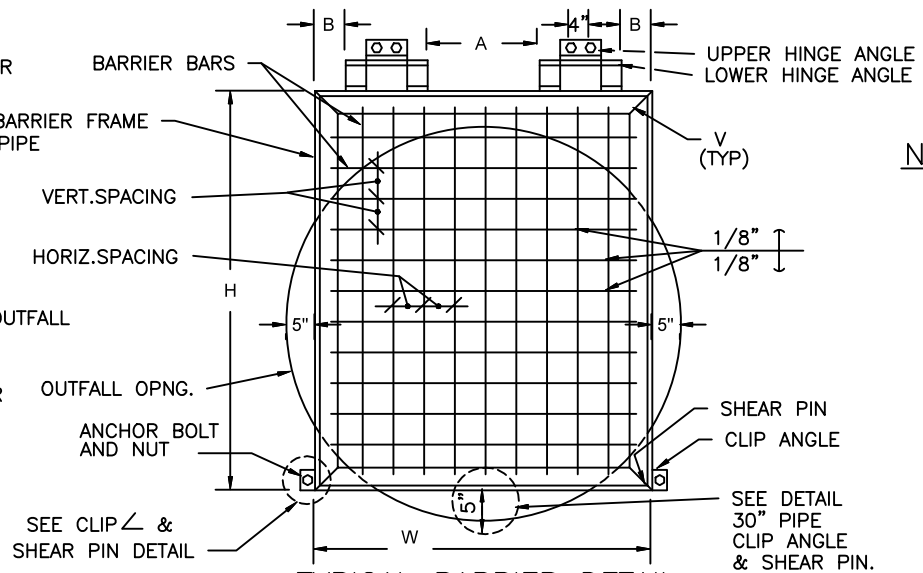
NOTE:

STEM PAINTING:
ALL STEEL TO HAVE PRIME COAT OF PAINT No. 1-D AND ONE HEAVY APPLICATION "FINISH COAT" OF PAINT No. 9 AS PER SECT. 790

DETAIL NO.	City of Phoenix STANDARD DETAIL	VALVE OPERATING NUT EXTENSION	APPROVED	DETAIL NO.
P1391–1			Mayo SaDamando CITY ENGINEER 6/27/01 DATE	P1391–1



30"ø PIPE ONLY, SINGLE HINGE & CLIP ANGLE DETAIL

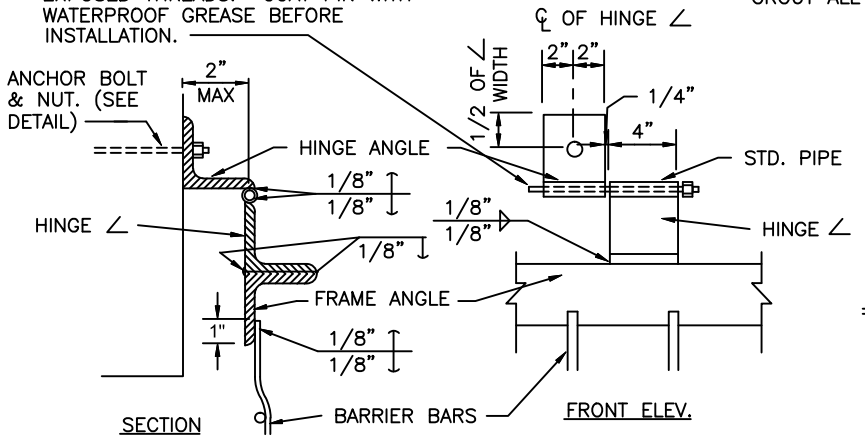


TYPICAL BARRIER DETAIL

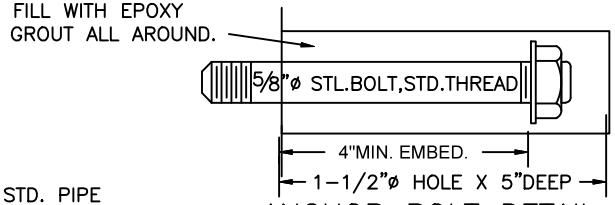
NOTES:

1. ALL SHEAR PIN ANGLES SHALL FIT SNUGLY AND TRULY FACE TO FACE. COVER WITH WATERPROOF GREASE PRIOR TO INSTALLATION OF PIN.
2. GALVANIZE ALL FERROUS PARTS AFTER FABRICATION.
3. THE SHEAR PIN HOLES IN THE ANGLE SHALL BE DRILLED FOR A TIGHT FIT OF THE SHEAR PINS.
4. FRAME AND HINGE ANGLES SHALL HAVE THE OUTSTANDING LEGS OUT FOR OUTLETS.
5. ALL ANCHOR BOLTS SHALL BE 5/8"ø ANCHOR BOLTS EMBEDDED 4"(MIN.) INTO EPOXY GROUT.
6. ALL SHEAR PINS ARE TO BE PEENED BOTH ENDS AFTER INSTALLATION.
7. SHEAR PIN MATERIAL SHALL BE COMMERCIALLY PURE ALUMINUM WIRE, ALLOY 1100, TEMPER 0, FEDERAL SPEC. QQ–A–411.
8. SEE BARRIER SCHEDULE, DET. P1562 FOR VARIABLE DIMENSIONS.
9. COVER ALL MOVABLE CONTACT SURFACE WITH A COAT OF WATERPROOF GREASE PRIOR TO INSTALLATION.

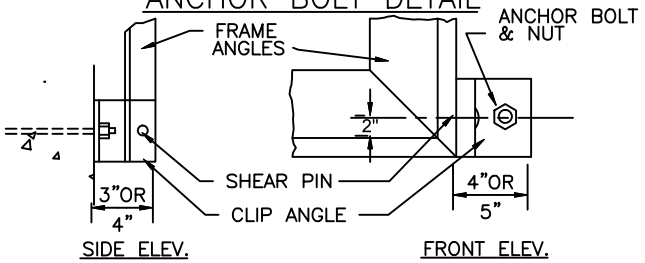
HINGE PIN
BOLT STOCK, THREAD BOTH ENDS SO NUT & LOCK WASHER ARE FLUSH WITH LOWER ∠, UPSET OR DAMAGE EXPOSED THREADS. COAT PIN WITH WATERPROOF GREASE BEFORE INSTALLATION.



HINGE INSTALLATION DETAIL



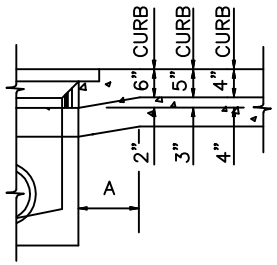
ANCHOR BOLT DETAIL



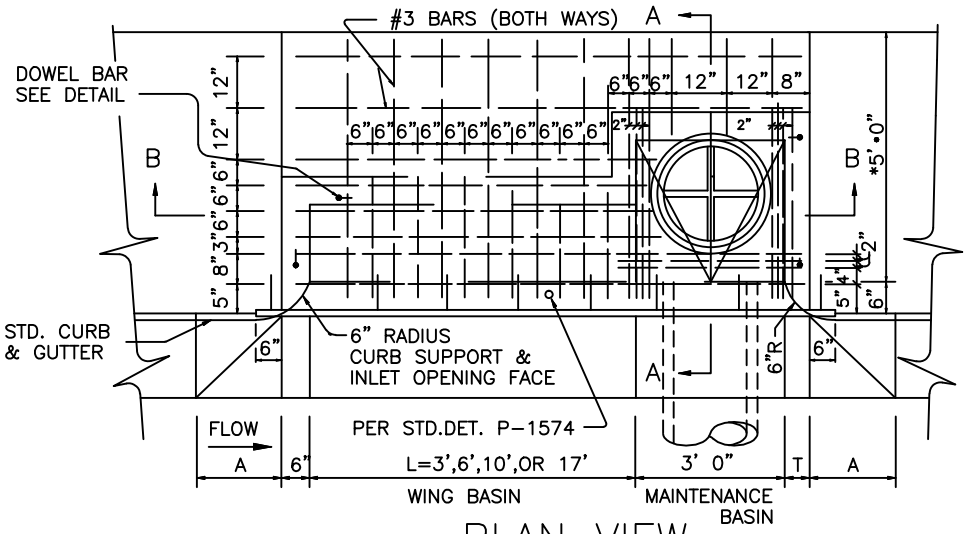
CLIP ANGLE & SHEAR PIN DETAIL

DETAIL NO.			APPROVED	DETAIL NO.
P1563	City of Phoenix STANDARD DETAIL	STORM DRAIN OUTFALL ACCESS BARRIER	CITY ENGINEER 07/01/2015 DATE	P1563

GUTTER TRANSITION	
CURB HEIGHT	DIM 'A'
4"	3'–3"
5"	2'–6"
6"	1'–9"



DEPRESSED GUTTER

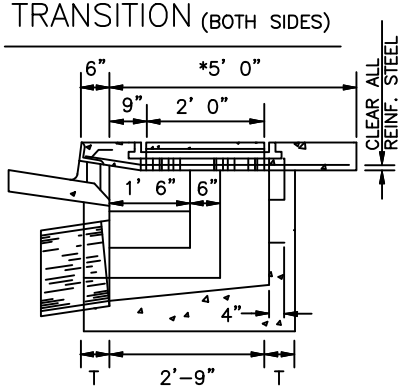


PLAN VIEW

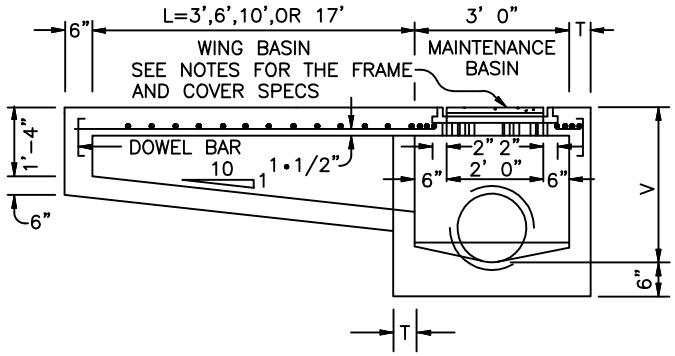
NOTES

1. TYPES ARE DESIGNATED AS FOLLOWS: 'M'.. NO WING, 'M–1'.. ONE WING, 'M–2'.. TWO WINGS.
2. ALL CONCRETE SHALL BE CLASS 'A'.
3. ALL REINFORCING STEEL SHALL BE DEFORMED BARS AND SHALL CONFORM TO A.S.T.M. SPECIFICATION 615.
4. CONNECTOR PIPES SHALL BE PLACED IN THE APPROPRIATE WALL OF THE MAINTENANCE BASIN.
5. FLOOR OF BASIN SHALL BE TROWELLED TO A HARD, SMOOTH SURFACE AND SHALL SLOPE FROM ALL DIRECTIONS TO OUTLET.
6. CONSTRUCTION DRAINS SHALL BE INSTALLED IN WHEN NOTED. (SEE DET. P–1575.)
7. LOCATE WING BASIN ON UPSTREAM SIDE OF MAINTENANCE BASIN FOR TYPE M–1. WING BASINS FOR TYPE M–2 SHALL BE BOTH SIDES OF MAINTENANCE BASIN.
8. ACCESS FRAME AND COVER PER DET. P–1561
9. INSTALL ONE CITY FURNISHED POLLUTION AWARENESS MARKER (PAM) AT EACH CATCH BASIN, AS DIRECTED BY THE ENGINEER.

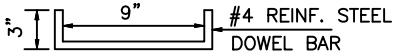
TRANSITION (BOTH SIDES)



SECTION A – A



SECTION B – B

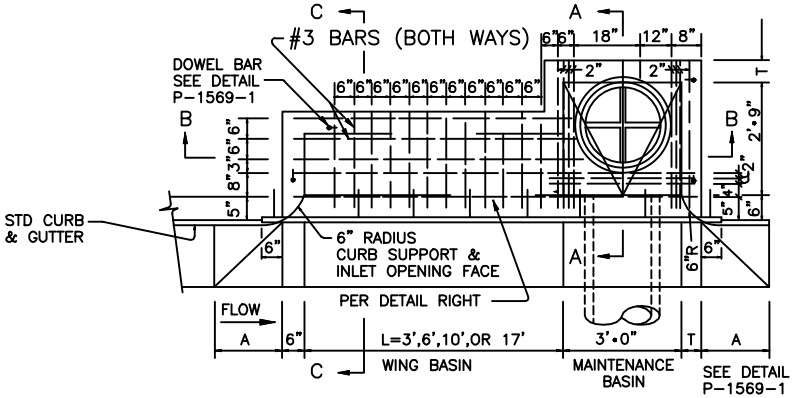


DOWEL BAR
DETAIL

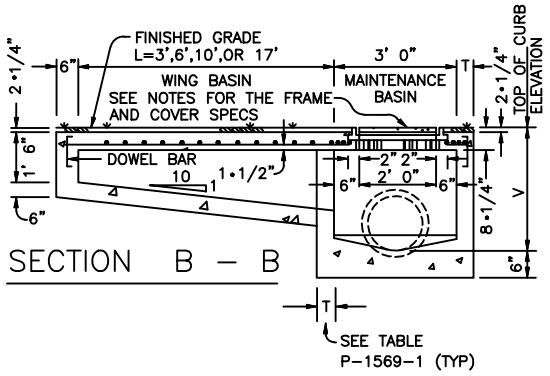
CATCH BASIN WALL THICKNESS
T = 6" IF V = 4' OR LESS T = 8" IF V = 4' TO 8' (IF V EXCEEDS 8', SPECIAL DESIGN IS REQUIRED.)
L = 0' UNLESS SPECIFIED ON THE PLANS V = 4'–0" MIN. UNLESS OTHERWISE NOTED

*4'–0" IN LOCATIONS WHERE 4' SIDEWALK IS REQ'D.

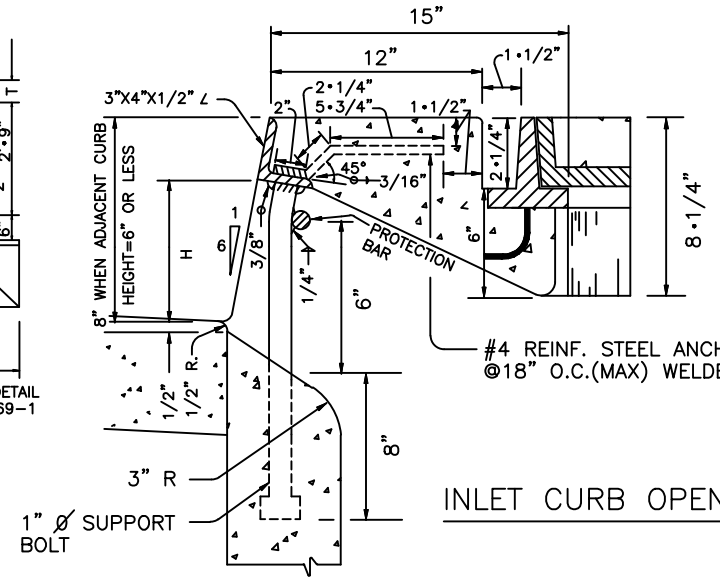
DETAIL NO.				DETAIL NO.
P1569–1	City of Phoenix STANDARD DETAIL	CATCH BASIN TYPE "M"	APPROVED CITY ENGINEER 12/10/2012 DATE	P1569–1



PLAN VIEW



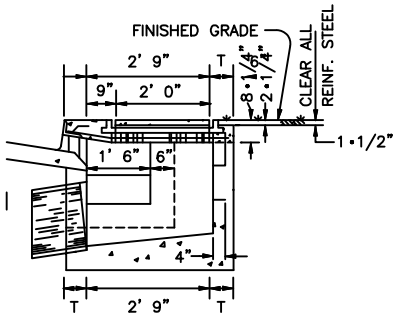
SECTION B – B



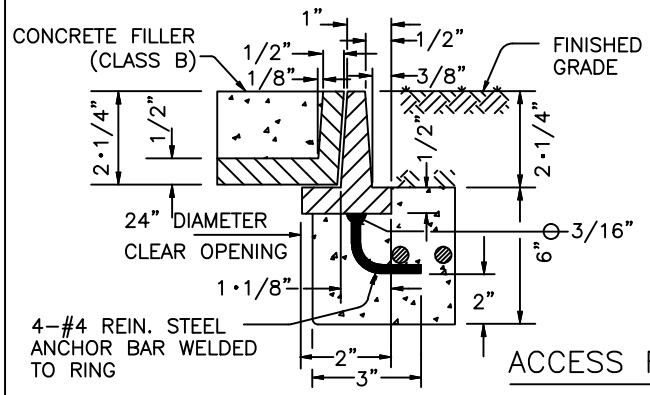
INLET CURB OPENING

NOTES:

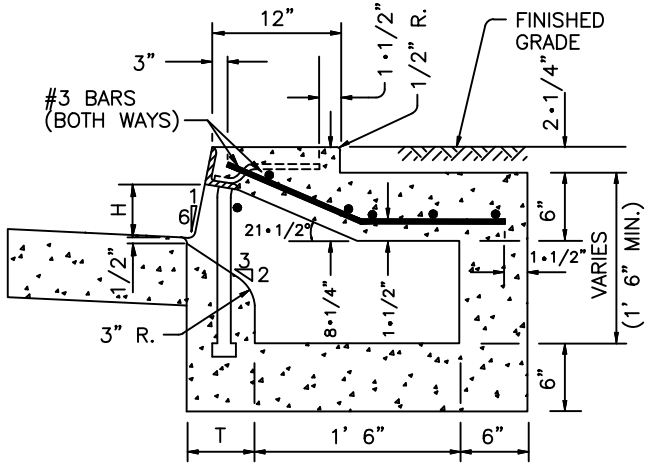
1. SEE STANDARD DETAILS P–1569–1, P–1561, AND P–1574 FOR ONSTRUCTION NOTES AND ADDITIONAL DETAILS.
2. INSTALL ONE CITY FURNISHED POLLUTION AWARENESS MARKER (PAM) AT EACH CATCH BASIN, AS DIRECTED BY THE ENGINEER.



SECTION A – A



ACCESS FRAME & COVER

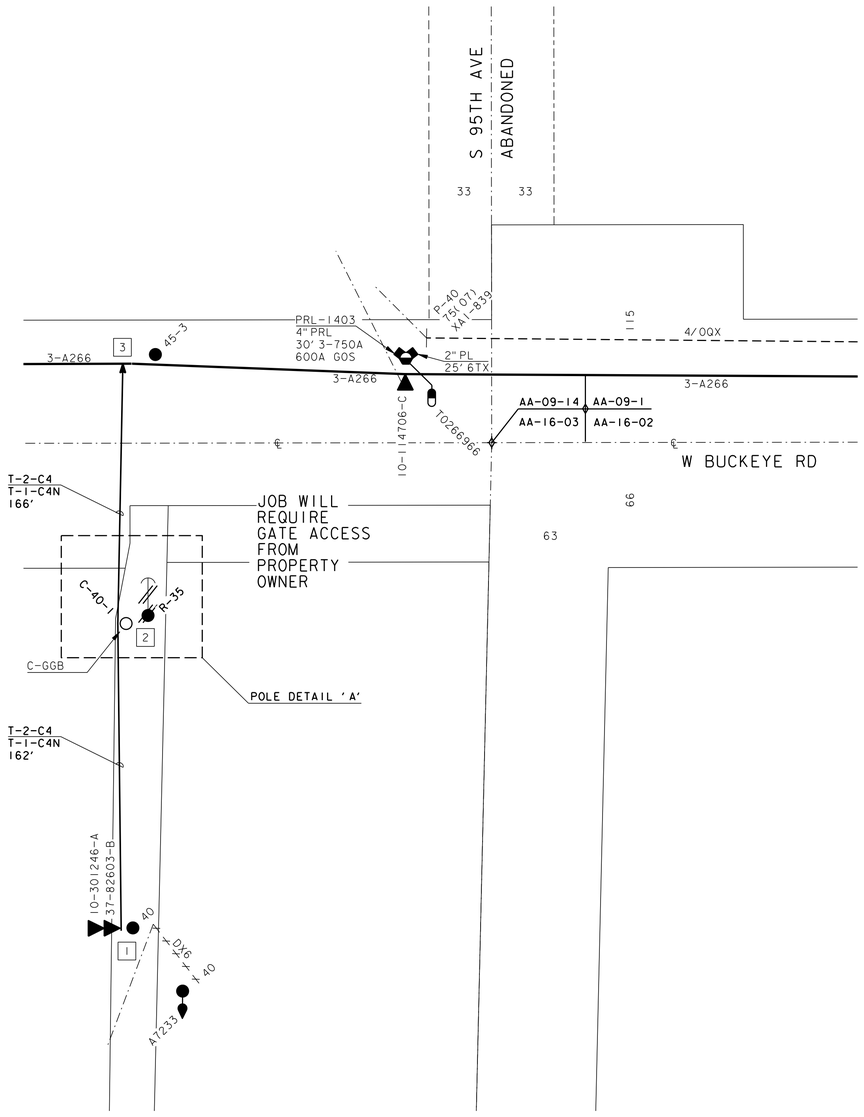


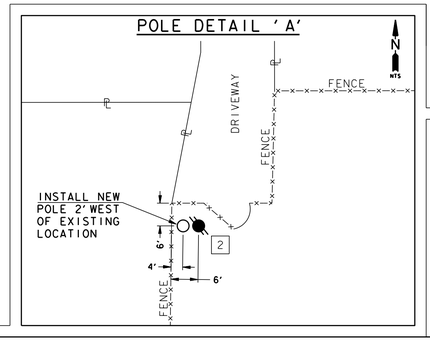
SECTION C – C

DETAIL NO.			DETAIL NO.
P1569–2	City of Phoenix STANDARD DETAIL	CATCH BASIN – TYPE "M" TOP MODIFICATION IN LANDSCAPE PARKWAY	P1569–2

APPROVED: CITY ENGINEER — DATE: 12/10/2012

MAINLINE





N

SCALE: 1" = 40'

PROJECT NOTES

SID 103
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT)
GENERAL NOTES FOR RIGHT-OF-WAY PERMITS

1. All work shall conform to the revised edition of the Uniform Standard Specifications and Details for Public Works Construction published by the Maricopa Association of Governments (MAG) as authorized and modified by the most current MCDOT supplement to the MAG Uniform Standard Specifications and Details and non-conflicting project Special Provisions. All work must also comply with Resolution 2001-01 Maricopa County Resolution for Permits to Work in Dedicated Right-of-way and Resolution 2001-02 Maricopa County Resolution for Street Improvements, Installation of Utilities and Traffic Control. Any exceptions must receive explicit approval from MCDOT and shall be identified on the plans as having explicit approval from MCDOT. All clear zone hazards shall be mitigated in a manor approved by MCDOT at no cost to the County.
2. The engineering designs on these plans are only approved by MCDOT in concept and not in detail. Construction quantities on these plans are not verified by MCDOT. Approval of these plans are for permit purposes only and shall not prevent MCDOT from requiring correction of errors in the plans where such errors are subsequently found to be in violation of any law, ordinance, health, safety, the MCDOT Roadway Design Manual, or other design issues.
3. An approved set of plans shall be on the site during construction and available to MCDOT and other inspectors.
4. All box culverts constructed in the public Right-Of-Way shall comply with Arizona Department of Transportation (ADOT) latest design specifications and standards. Minimum clear height of box culvert shall be 4 feet.
5. Contractor to obtain MCDOT permits prior to construction within County Right-Of-Way, and all necessary permits from other agencies and from local governments for work within their jurisdiction.
6. Contractor shall notify the MCDOT Inspection Dept. at least 24 hours in advance of any construction at **(602) 506-8606**.
7. Contractor performing construction or excavating operations is responsible for locating and relocating all utilities in conflict at no expense to Maricopa County. The Contractor shall contact "Blue Stake" at **(602) 263-1100** prior to beginning construction.
8. The Contractor is responsible for obtaining any required permits for earth moving from Maricopa County Air Quality Department's Dust Compliance Division **(602) 506-6010** prior to conducting excavation operations. A copy of the permit and dust control plan shall be submitted to the County Engineer prior to commencement of any earthmoving activities.
9. Prior to conducting excavation operations, the Contractor shall obtain from the Arizona State Historical Preservation Officer **(602) 542-4009**, recommendations regarding the need for cultural resources (archaeological) clearance. All discoveries of human remains, cultural artifacts, or paleontological remains shall be reported to the Arizona State Museum and MCDOT. Upon discovery, Contractor shall cease operations in the vicinity of the find and protect the discovery area from further disturbance until the find can be professionally investigated by the Arizona State Museum and MCDOT.
10. Except under emergency conditions, roads shall not be closed for construction activity unless prior approval is obtained from the MCDOT Transportation Director or his representative.
11. Prior to moving or destroying protected native plant species, the Contractor shall file a formal Notice of Intent with the Arizona Department of Agriculture Native Plants **(602) 542-6408**.
12. Prior to installation of curb, gutter, sidewalk, base course and wearing surface, submit soil test(s) of subgrade and revised pavement design/calculations to MCDOT for review and approval. If subgrade stabilization is required, the area stabilized shall be from back of sidewalk to back of sidewalk and match the stabilization depth of the pavement structure.
13. Asphalt mix design shall be submitted to MCDOT a minimum of 48 hours prior to placing any asphalt courses. (Trench work excluded.) All paved turnouts shall have the same asphalt and base requirements as the adjacent roadway unless noted otherwise.
14. All compaction and backfill within County Right-Of-Way shall conform to the MCDOT Supplement to MAG Specification section 601. Backfill under existing pavement, curb and gutter, roadway shoulders, and unpaved roadways shall consist of one-half (1/2) or one sack CLSM. Unpaved roadway areas include the travelled way plus five feet beyond the travelled way.
15. All structures, such as manholes, valve box & covers, and monitoring wells must be marked with at least two reflective yellow flex posts when structures are located outside the traveled way and within the Right-Of-Way. (Applies only when there is no curb.)
16. Pavement widening and pavement replacement shall conform to requirements of specification section 336. Pavement cuts shall not be located within a lane wheel path. The lane wheel path is the entire lane width except the area within one foot of a lane line stripe and except the center two feet of the travel lane.
17. All existing pavement markings, traffic signs and signal equipment that need to be removed, replaced, relocated or repaired because of contractor's work will be done by the contractor at his expense. All salvaged signs shall be delivered to the Traffic Ops building at 2909 W. Durango St. Arrangements can be made for delivery by calling **(602) 506-8662**. All new street name signs shall be provided and installed by permittee at no expense to Maricopa County.
18. Pavement marking, signing and signal work will be inspected and shall meet County Standards before release of bond.
19. The contractor shall restore all disturbed areas within the Right-Of-Way to a condition equal to or better than prior existing conditions per MAG 107.9. Disposal of all waste material will be the responsibility of the Contractor.

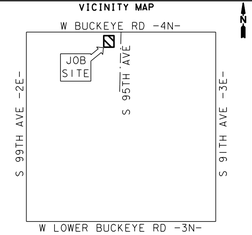
Q:\FORMS\SID LETTERS (BLANK)\SID103 MCDOT General Notes.doc SID 103 rev 06/12/2013

GRAPHIC SYMBOLS

TYPICAL SRP ABBREVIATIONS
C = CONSTRUCT
R = REMOVE
T = TRANSFER

- OVERHEAD FEEDER WIRE
- OVERHEAD PRIMARY WIRE
- OVERHEAD SECONDARY WIRE
- OVERHEAD STREET LIGHT WIRE
- OVERHEAD SERVICE WIRE
- EXISTING OH TRANSFORMER
- PROPOSED OH TRANSFORMER
- EXISTING FOREIGN STEEL POLE
- EXISTING WOOD POLE
- PROPOSED WOOD POLE
- EXISTING POLE RISER
- EXISTING DOWN GUY (↓ ANCHOR)
- WORK POINT NUMBER
- EXITING STREET LIGHT
- EXITING PRIVATE LIGHT
- DOUBLE SLASH REPRESENTS REMOVAL

VICINITY MAP



FIELD INSTALLATION STAMP

CONTACTS:
DESIGN CONSULTANT: TONY LAWRENCE
OFFICE:(602)236-4921
MOBILE:(602)748-6687
PROJECT LEADER: BRUCE SOUDER
MOBILE:(602)809-1511
INSPECTIONS:
OFFICE:(602)236-0436
SURVEY:
OFFICE:(602)236-3161
CONSTRUCTION CONSULTANT: BRAD HAWN
MOBILE:(602)332-2240

REV	REVISED BY	DATE	REVISION DESCRIPTION
4			
3			
2			
1			
0	VACUEVAS	02-13-19	JOB CREATED

NATURAL GAS YES ☐ NO ☐

JOB NAME CUS OW 95TH AVE & BUCKEYE RD DOWN GUY RELOCATION
ADDRESS/LOCATION 95TH AVE AND BUCKEYE RD
CONTACT ROBERT PRATER PHONE 602-722-5365
BILLING ACCT NO.
FIS JO T3134226 MAP 1/4 NW S 16 T IN R IE
40/ACRE AA-16-03 COORDS 2 7/16E - 3 15/16N
AMP WO AMP VERSION
COST CENTER 22660
ROUTING CODE DD1.5CSI+
SHEET NUMBER | OF |

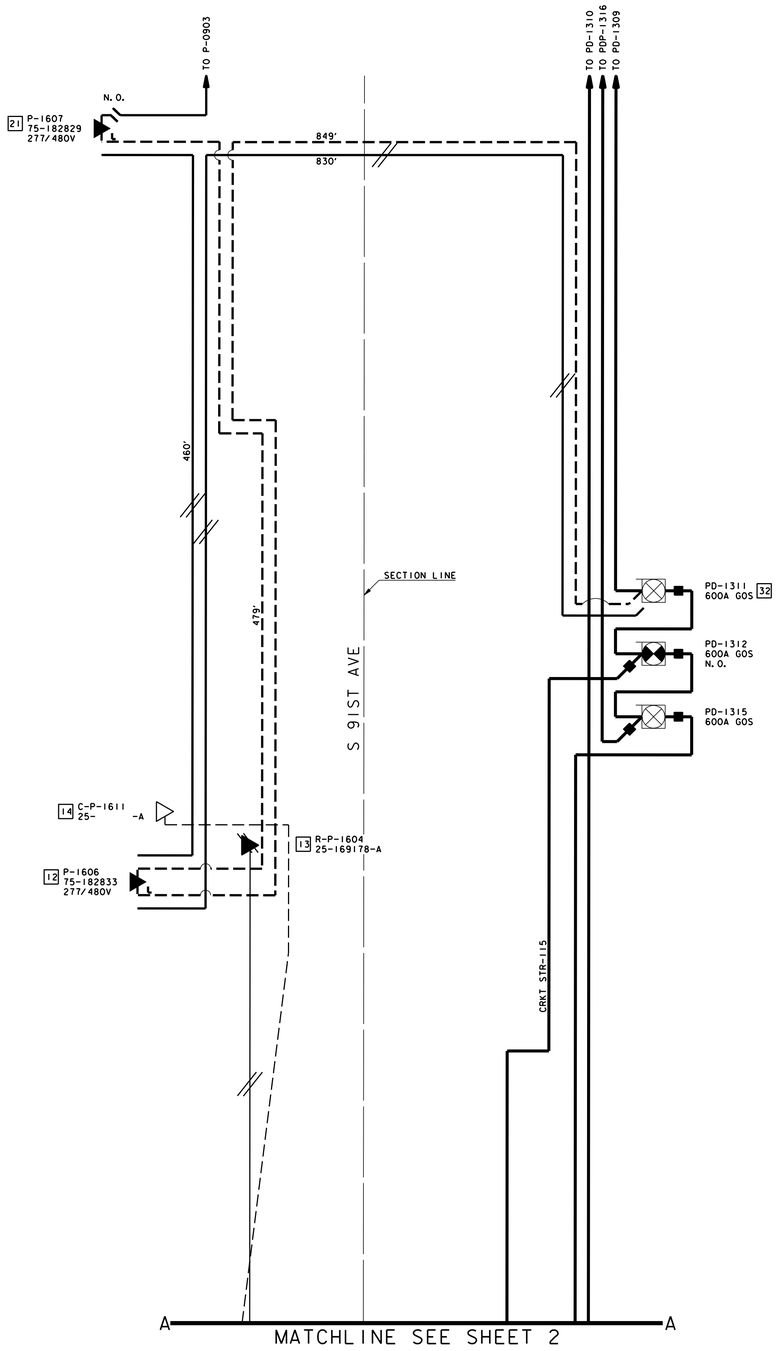
Contact Arizona 811 at least two full working days before you begin excavation. Call 811 or click Arizona811.com

ADLAWREN • 21-FEB-2019 09:15 • S:/82xxx Job Order Files/82515 JobOrders/Customer Improvements JobOrders/T2113039 - CUS UW 91ST AVE ST LT HMPR/T3134226 - CUS OW 95TH AVE DOWNGUY RELOCATION/Dgns/T3134226.dgn

ADLAMGEN • 13-JUL-2022 10:00 • I:/srp.gov/80000/E&CS/82xxx Job Order files/82515 JobOrders/Customer Improvements JobOrders/T2113021 CUS UW MC85 PHASE I 95TH AVE - 107TH AVE CONV/BUCKEYE RD 95TH AVE-107TH AVE/T2113033 - CUS UW MC85 PHASE I 95TH AVE - 107TH AVE CONV/T2113033-DWF.dgn

SCHEMATIC

AA-09-16, AA-10-13,



N

NTS

SCHEMATIC LEGEND

(CONDUCTORS ARE AS FOLLOWS UNLESS NOTED OTHERWISE)

C-3UC750K	(FEEDER)
C-3UA40K	(PRIMARY)
C-1UA2K	(PRIMARY)
E-3UA750K	(FEEDER)
E-3UC750K	(FEEDER)
E-3UA40K	(PRIMARY)
E-1UA2K	(PRIMARY)
E-UCB20	(NEUTRAL)

GRAPHIC SYMBOLS

- PROPOSED PRIMARY TRENCH ROUTE
- PROPOSED PRIMARY & STREET LIGHT TRENCH ROUTE
- PROPOSED STREET LIGHT CONDUCTOR & CONDUIT
- EXISTING PRIMARY TRENCH ROUTE
- EXISTING STREET LIGHT CONDUCTOR & CONDUIT
- EXISTING SERVICE CONDUCTOR & CONDUIT
- EXISTING OVERHEAD FEEDER CONDUCTOR

TYPICAL SRP ABBREVIATIONS

- C = CONSTRUCT
- R = REMOVE
- A = ABANDON
- R/W = RIGHT OF WAY

- DOUBLE SLASH LINES INDICATE REMOVAL/ABANDONMENT
- WORK POINT NUMBER

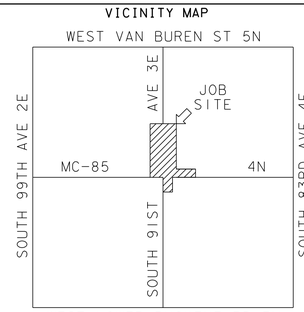
- BAR INDICATES FRONT OF DEVICE
- EXISTING MANHOLE
- PROPOSED SWITCH
- EXISTING SWITCH
- EXISTING FEEDER PULLING ENCLOSURE
- EXISTING THREE PHASE TRANSFORMER
- PROPOSED SINGLE PHASE TRANSFORMER
- EXISTING SINGLE PHASE TRANSFORMER
- PROPOSED J-BOX
- EXISTING J-BOX
- EXISTING WOOD TRANSMISSION POLE
- EXISTING WOOD DISTRIBUTION POLE
- EXISTING STEEL TRANSMISSION POLE
- PROPOSED POLE RISER
- EXISTING POLE RISER
- EXISTING ROUTER
- ELECTRIC MARKER
- EXISTING STREET LIGHT ON STEEL POLE
- PROPOSED STREET LIGHT ON STEEL POLE

PROJECT NOTES

SRP ELECTRIC SERVICE SPECIFICATIONS ARE AVAILABLE ON-LINE AT:
HTTP://WWW.SRPNET.COM/ELECTRIC/BUSINESS/SPECS

STREET LIGHT LOCATIONS ARE SHOWN FOR REFERENCE ONLY.
THE DEVELOPER IS RESPONSIBLE FOR STAKING STREET LIGHT LOCATIONS PER THE APPROVED STREET LIGHT PLANS. REFER TO DETAILS 11-3 & 3-11-1.

VICINITY MAP



NOTICE

THIS JOB ORDER WORKS WITH OTHER JOBS.

O. H. = T3260919
SER. =
U. G. = T2113041
U. G. = T3303053
U. G. = T3301827
U. G. = T3229089
U. G. =

CONTACTS:
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OFFICE: (602) 236-4921
MOBILE: (602) 748-6687
PROJECT LEADER: JASON HUGHES
MOBILE: (602) 236-0886
INSPECTIONS:
OFFICE: (602) 236-0436

FIELD INSTALLATION STAMP

SURVEY AND PERMIT INFORMATION

- ☐ SRP SURVEY TO STAKE FOR LOCATION AND TIE FOR EASEMENTS. CUSTOMER CONTROL POINTS REQUIRED: YES ☐ NO ☐
- ☐ CUSTOMER'S SURVEY TO STAKE FOR LOCATION/CONSTRUCTION AND TIE FOR EASEMENTS. CUSTOMER'S SURVEYOR MUST ATTEND PRE-CON MEETING.
- ☐ SRP SURVEY TO STAKE FOR LOCATION, NO EASEMENT REQUIRED.
- ☐ 3RD PARTY EASEMENT REQUIRED.
- ☐ NO SURVEY REQUIRED.
- ☒ PERMIT REQUIRED: CITY OF PHOENIX COUNTY MARICOPA
  OTHER TOLLESON PERMIT NO.
- ☐ NO PERMIT REQ.

REV	REVISED BY	DATE	REVISION DESCRIPTION
4	JMFREITA	03/30/22	NEW STREET LIGHT, STREET LIGHT J-BOX RELOCATIONS AND PT # ADDITION
3	JMFREITA	09/22/21	STREET LIGHT & J-BOX RELOCATION, PULLBOX ADDITION, TRENCH RUN CHANGE, CONDUIT SPLICE LOCATIONS, FOOTAGES, PT # CHANGES AND ADDITIONAL OVHEAD REMOVAL PER FIELD VISIT 06/29/21
2	JMFREITA	06/09/21	NEW STREET LIGHT, J-BOX RELOCATION AND PT # CHANGES
1	JMFREITA	03/22/21	TITLE BLOCK REVISONS

NATURAL GAS YES ☒ NO ☐

JOB NAME CUS UW MC85 PHASE I: 95TH AVE - 107TH AVE CONV
ADDRESS/LOCATION 91ST AVE & BUCKEYE RD
CONTACT KELLY ROY PHONE 602-721-2774
BILLING ACCT NO.
FIS JO MAP 1/4 SW S 10 T 1N R 1E
40/ACRE AA-10-13 COORDS 3 1/16 E - 4 1/16 N
AMP WO T2113033 AMP VERSION

Call at least two full working days before you begin excavation. ARIZONA811 Arizona Blue Stake, Inc. Dial 811 or 1-800-STAKE-IT (782-5348) In Maricopa County: 602.263.1100

SRP

COST CENTER 22660
ROUTING CODE DD1, 5CSI, E, H, I, T+O

SHEET NUMBER 1 OF 8

SID 103
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT)
GENERAL NOTES FOR RIGHT-OF-WAY PERMITS

1. All work shall conform to the revised edition of the Uniform Standard Specifications and Details for Public Works Construction published by the Maricopa Association of Governments (MAG) as authorized and modified by the most current MCDOT supplement to the MAG Uniform Standard Specifications and Details and non-conflicting project Special Provisions. All work must also comply with Resolution 2001-01 Maricopa County Resolution for Permits to Work in Dedicated Right-of-way and Resolution 2001-02 Maricopa County Resolution for Street Improvements, Installation of Utilities and Traffic Control. Any exceptions must receive explicit approval from MCDOT and shall be identified on the plans as having explicit approval from MCDOT. All clear zone hazards shall be mitigated in a manor approved by MCDOT at no cost to the County.
2. The engineering designs on these plans are only approved by MCDOT in concept and not in detail. Construction quantities on these plans are not verified by MCDOT. Approval of these plans are for permit purposes only and shall not prevent MCDOT from requiring correction of errors in the plans where such errors are subsequently found to be in violation of any law, ordinance, health, safety, the MCDOT Roadway Design Manual, or other design issues.
3. An approved set of plans shall be on the site during construction and available to MCDOT and other inspectors.
4. All box culverts constructed in the public Right-Of-Way shall comply with Arizona Department of Transportation (ADOT) latest design specifications and standards. Minimum clear height of box culvert shall be 4 feet.
5. Contractor to obtain MCDOT permits prior to construction within County Right-Of-Way, and all necessary permits from other agencies and from local governments for work within their jurisdiction.
6. Contractor shall notify the MCDOT Inspection Dept. at least 24 hours in advance of any construction at **(602) 506-8606**.
7. Contractor performing construction or excavating operations is responsible for locating and relocating all utilities in conflict at no expense to Maricopa County. The Contractor shall contact "Blue Stake" at **(602) 263-1100** prior to beginning construction.
8. The Contractor is responsible for obtaining any required permits for earth moving from Maricopa County Air Quality Department's Dust Compliance Division **(602) 506-6010** prior to conducting excavation operations. A copy of the permit and dust control plan shall be submitted to the County Engineer prior to commencement of any earthmoving activities.
9. Prior to conducting excavation operations, the Contractor shall obtain from the Arizona State Historical Preservation Officer **(602) 542-4009**, recommendations regarding the need for cultural resources (archaeological) clearance. All discoveries of human remains, cultural artifacts, or paleontological remains shall be reported to the Arizona State Museum and MCDOT. Upon discovery, Contractor shall cease operations in the vicinity of the find and protect the discovery area from further disturbance until the find can be professionally investigated by the Arizona State Museum and MCDOT.
10. Except under emergency conditions, roads shall not be closed for construction activity unless prior approval is obtained from the MCDOT Transportation Director or his representative.
11. Prior to moving or destroying protected native plant species, the Contractor shall file a formal Notice of Intent with the Arizona Department of Agriculture Native Plants **(602) 542-4400**.
12. Prior to installation of curb, gutter, sidewalk, base course and wearing surface, submit soil test(s) of subgrade and revised pavement design/calculations to MCDOT for review and approval. If subgrade stabilization is required, the area stabilized shall be from back of sidewalk to back of sidewalk and match the stabilization depth of the pavement structure.
13. Asphalt mix design shall be submitted to MCDOT a minimum of 48 hours prior to placing any asphalt courses. (Trench work excluded.) All paved turnouts shall have the same asphalt and base requirements as the adjacent roadway unless noted otherwise.
14. All compaction and backfill within County Right-Of-Way shall conform to the MCDOT Supplement to MAG Specification section 601. Backfill under existing pavement, curb and gutter, roadway shoulders, and unpaved roadways shall consist of one-half (1/2) or one sack CLSM. Unpaved roadway areas include the travelled way plus five feet beyond the travelled way.
15. All structures, such as manholes, valve box & covers, and monitoring wells must be marked with at least two reflective yellow flex posts when structures are located outside the traveled way and within the Right-Of-Way. (Applies only when there is no curb.)
16. Pavement widening and pavement replacement shall conform to requirements of specification section 336. Pavement cuts shall not be located within a lane wheel path. The lane wheel path is the entire lane width except the area within one foot of a lane line stripe and except the center two feet of the travel lane.
17. All existing pavement markings, traffic signs and signal equipment that need to be removed, replaced, relocated or repaired because of contractor's work will be done by the contractor at his expense. All salvaged signs shall be delivered to the Traffic Ops building at 2909 W. Durango St. Arrangements can be made for delivery by calling **(602) 506-8662.** All new street name signs shall be provided and installed by permittee at no expense to Maricopa County.
18. Pavement marking, signing and signal work will be inspected and shall meet County Standards before release of bond.
19. The contractor shall restore all disturbed areas within the Right-Of-Way to a condition equal to or better than prior existing conditions per MAG 107.9. Disposal of all waste material will be the responsibility of the Contractor.

Q:\FORMS\SID LETTERS (BLANK)\SID103 MCDOT General Notes.doc SID 103 rev 06/12/2013

SRP PROPRIETARY

SCHEMATIC

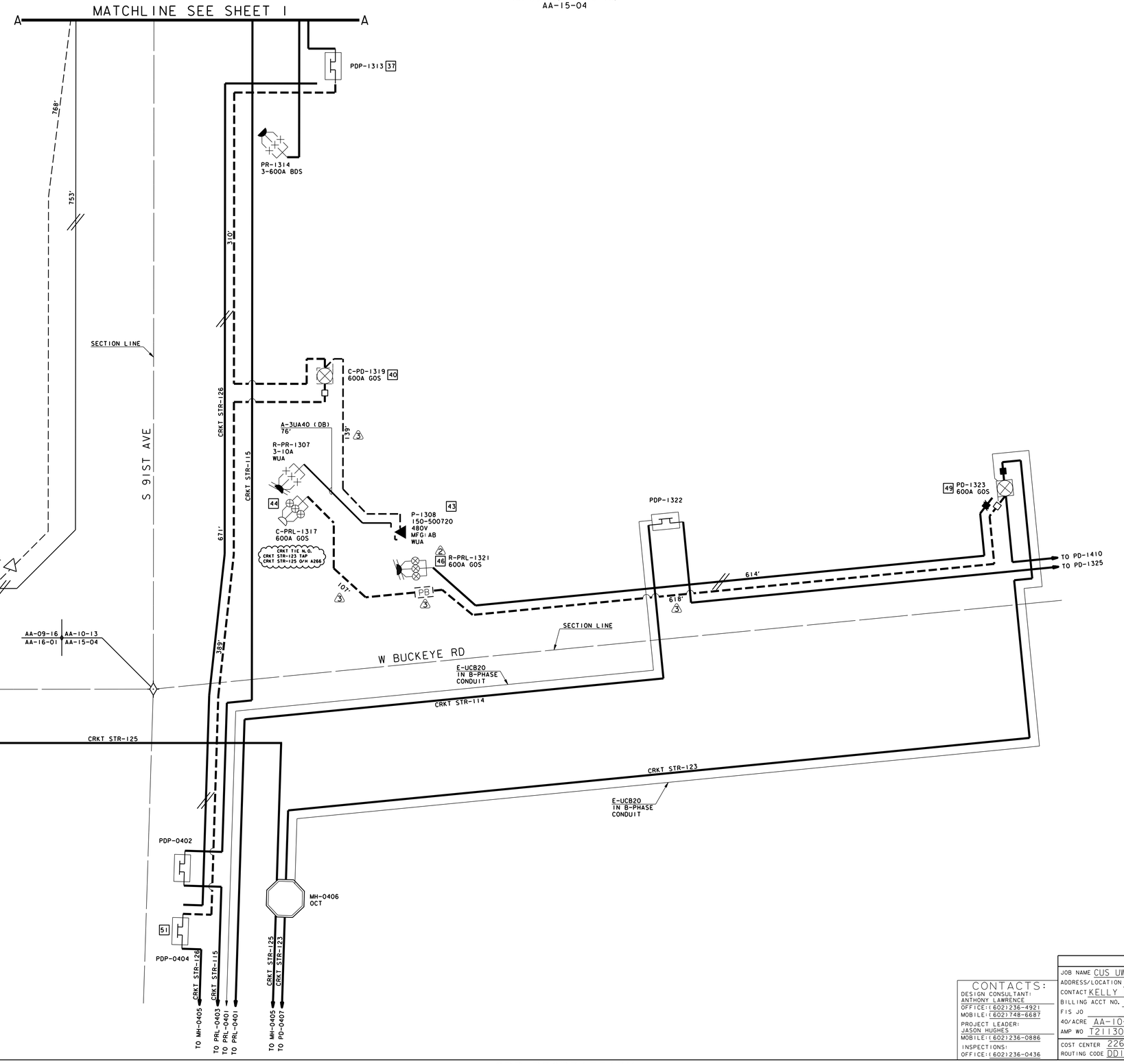
AA-09-16, AA-10-13,
AA-15-04

SCHEMATIC LEGEND

(CONDUCTORS ARE AS FOLLOWS UNLESS NOTED OTHERWISE)

C-3UC750K	(FEEDER)
C-3UA40K	(PRIMARY)
C-1UA2K	(PRIMARY)
E-3UA750K	(FEEDER)
E-3UC750K	(FEEDER)
E-3UA40K	(PRIMARY)
E-1UA2K	(PRIMARY)
E-UCB20	(NEUTRAL)

N
NTS



NATURAL GAS YES [x] NO [ ]

JOB NAME	CUS UW MC85 PHASE 1: 95TH AVE - 107TH AVE CONV
ADDRESS/LOCATION	91ST AVE & BUCKEYE RD
CONTACT	KELLY ROY
PHONE	602-721-2774
BILLING ACCT NO.	
FIS JO	
MAP	1/4 SW S10 TIN RIE
40/ACRE	AA-10-13
COORDS	3 1/16 E - 4 1/16 N
AMP WO	T2113033
AMP VERSION	
COST CENTER	22660
ROUTING CODE	DDI, SCSI, E, H, I, T+O

CONTACTS:
DESIGN CONSULTANT:
ANTHONY LAWRENCE
OFFICE: (602)236-4921
MOBILE: (602)748-6687
PROJECT LEADER:
JASON HUGHES
MOBILE: (602)236-0886
INSPECTIONS:
OFFICE: (602)236-0436

Call at least two full working days before you begin excavation.
ARIZONA811
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Dial 811 or 1-800-STAKE-IT (782-5348)
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SRP

SHEET NUMBER 2 OF 8

SRP PROPRIETARY

ADLAWREN • 13-JUL-2022 10:02 • //srp.gov/80000/E&CS/82xxx Job Order Files/82515 JobOrders/Customer Improvements JobOrders/T2113021 CUS UW CONV BUCKEYE RD 95TH AVE-107TH AVE/T2113033 - CUS UW MC85 PHASE 1 95TH AVE - 107TH AVE CONV/T2113033-JMF.dgn

ADLAWREN • 13-JUL-2022 10:03 • //srp.gov/80000/E&CS/82xxx Job Order Files/82515 JobOrders/Customer Improvements JobOrders/T2113021 CUS UW CONV BUCKEYE RD 95TH AVE/T2113033 - CUS UW MC85 PHASE I 95TH AVE - 107TH AVE CONV/T2113033-DMF.dgn

CONDUIT ONE LINE

AA-09-16, AA-10-13,

MATCHLINE BOTTOM RIGHT

MATCHLINE SEE SHEET 4

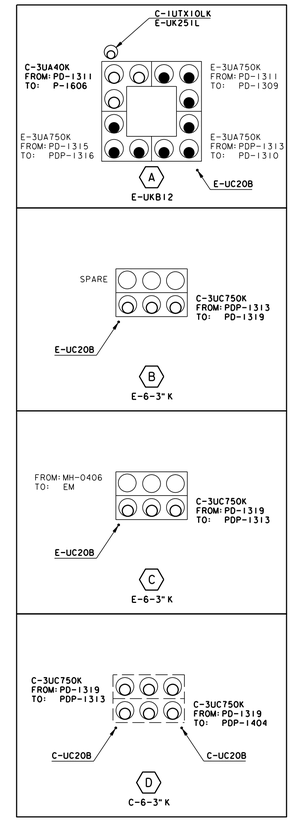
MATCHLINE TOP LEFT

NOTE:
ALL J-BOX & STLT FACILITES,
TO BE INSTALLED BY THE CUSTOMER CONTRACTOR

NOTE:
SRP CREW TO SPLICE 2/0 BARE COPPER
VERIFY 2/0 BARE IS CONNECTED TO PDP-0404

IF FOUND TO THAT ITS NOT
2/0 BARE COPPER WILL NEED TO
BE PULLED THROUGH B PHASE FROM
PROPOSED PD-1319 TO PDP-0404

DUCT BANK DETAILS



CONDUIT ONE-LINE LEGEND

(CONDUITS ARE AS FOLLOWS UNLESS NOTED OTHERWISE)

C-3-3"K	(FEEDER-COLORS VARY)
C-3-3"K	(PRIMARY)
C-1-2.5"K	(PRIMARY-COLORS VARY)
C-1-2.5"K	(STREET LIGHT)
C-1-2.5"K	(SERVICE)
C-UCB20	(NEUTRAL)
E-3-3"K	(FEEDER-COLORS VARY)
E-3-3"K	(PRIMARY)
E-1-2.5"K	(STREET LIGHT)
E-1-2.5"K	(SERVICE)
A-3-3"K	(FEEDER)
E-UCB20	(NEUTRAL)

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NATURAL GAS YES [X] NO [ ]

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AMP WO T2113033 AMP VERSION
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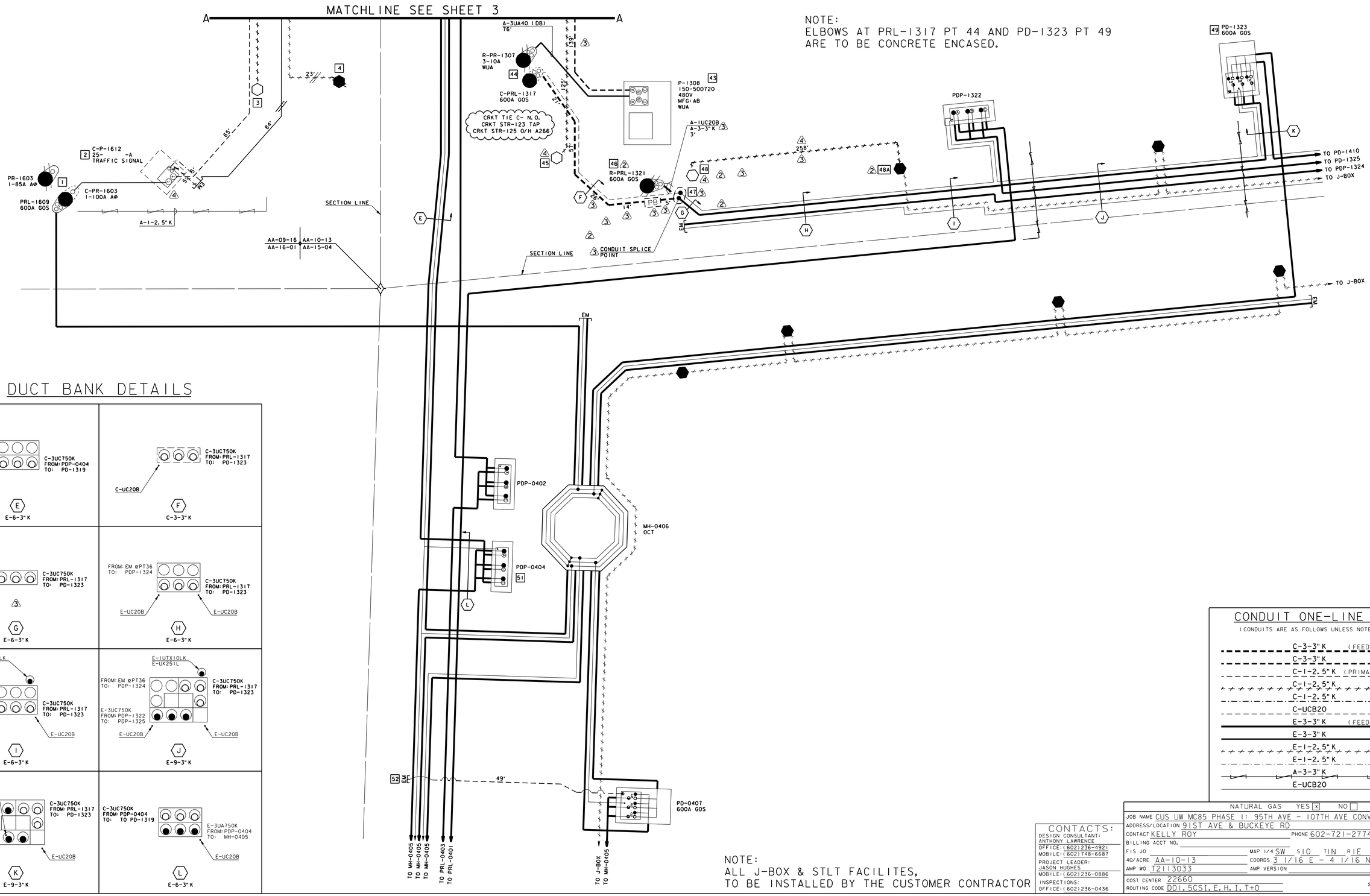
SHEET NUMBER 3 OF 8

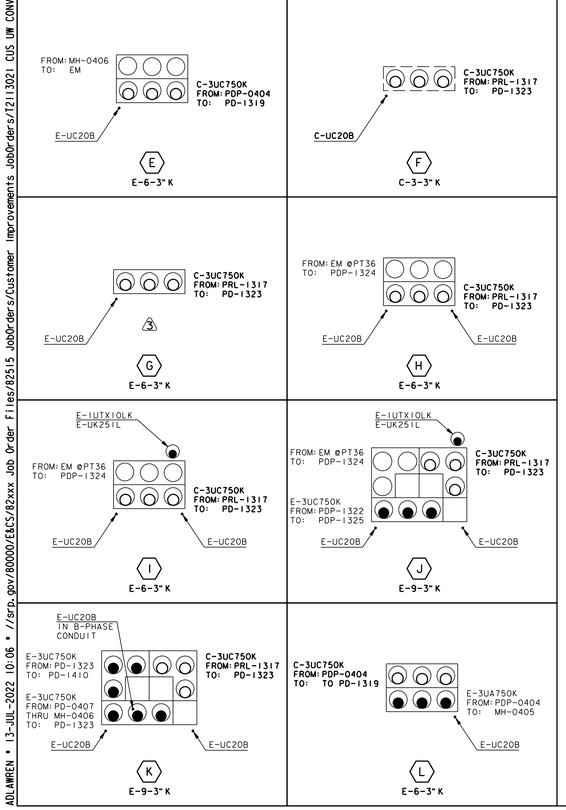
SRP PROPRIETARY

CONDUIT ONE LINE

AA-09-16, AA-10-13,
AA-15-04



DUCT BANK DETAILS



CONDUIT ONE-LINE LEGEND

(CONDUITS ARE AS FOLLOWS UNLESS NOTED OTHERWISE)

C-3-3"K	(FEEDER-COLORS VARY)
C-3-3"K	(PRIMARY)
C-1-2.5"K	(PRIMARY-COLORS VARY)
C-1-2.5"K	(STREET LIGHT)
C-1-2.5"K	(SERVICE)
C-UCB20	(NEUTRAL)
E-3-3"K	(FEEDER-COLORS VARY)
E-3-3"K	(PRIMARY)
E-1-2.5"K	(STREET LIGHT)
E-1-2.5"K	(SERVICE)
A-3-3"K	(FEEDER)
E-UCB20	(NEUTRAL)

NOTE:
ALL J-BOX & STLT FACILITES,
TO BE INSTALLED BY THE CUSTOMER CONTRACTOR

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NATURAL GAS YES [x] NO [ ]

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40/ACRE AA-10-13 COORDS 3 1/16 E - 4 1/16 N
AMP WO T2113033 AMP VERSION
COST CENTER 22660
ROUTING CODE DD1, 5CSI, E, H, I, T+O

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ARIZONA811
Or dial 811 or
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: 1-602-263-1100

SHEET NUMBER 4 OF 8

SRP PROPRIETARY

ADLAMREN • 13-JUL-2022 10:06 • I:\srp_gov\80000\EACS\82xxx Job Order Files\82515 JobOrders\Customer Improvements JobOrders\T2113021 CUS UW CONV BUCKEYE RD 95TH AVE-107TH AVE\T2113033 - CUS UW MC85 PHASE I 95TH AVE - 107TH AVE CONV\T2113033-JMF.dgn

MAIN LINE

MATCHLINE STA 325+20 SEE SHEET 6

SCALE: 1" = 40'

C-T0308058
STA 325+00.20,
51.50' LT

R-T0144723

R-2UTX1OLK
A-2-2.5"K
22'

C-3UC750K
R-3UA750K
E-1UC20B
E-6-3"K
(ENCASED)
30'

PDP-1313

C-1UTX1OLK
E-3UA750K
E-3-3"K
E-1-2.5"K
(ENCASED)
55'

FIELD BEND
STA 324+29.50,
59.00' LT

PI: 324+29.91

E-3UA750K
E-3-3"K
(ENCASED)

R-1UA2K
R-1UTX1OLK
A-2-2.5"K
209'

CONDUIT SPLICE POINT
STA 324+10.34,
75.64' RT

PR-1314

C-1UTX1OLK
C-1-2.5"K
28'

C-T0308057
STA 324+00.00,
60.90' RT

60'
EXST SRP

55'
EXST R/W

15'
PUE

59'
PROP SRP

60'
PROP SRP

76'
EXST R/W

C-3UC750K
R-3UA750K
E-1UC20B
E-6-3"K
(ENCASED)
252'

C-1UTX1OLK
C-1-2.5"K
216'

C-T0308056
STA 323+00.00,
54.60' LT

FIELD BEND
STA 322+82.00,
77.32' RT

FIELD BEND
STA 322+70.00,
74.47' RT

E-3UA750K
E-3-3"K

R-T0144724

R-2UTX1OLK
A-2-2.5"K
23'

SECTION
LINE

57'
PROP SRP

91ST AVE
CONST ℄

C-PD-1319
600A GOS

CONDUIT SPLICE POINT
STA 322+13.00,
47.22' RT

SEE PAD DETAIL "B"

R-1UA2K
R-1UTX1OLK
A-2-2.5"K
161'

C-T0308055
STA 321+95.00
70.10' RT

C-T0308054
STA 321+25.00,
55.50' LT

R-PR-1307

C-PRL-1317

R-1UTX1OLK
A-1-2.5"K
23'

P-32
90(07)

A-3UA40 (DB)
76'

FIELD BEND
STA 320+99.24,
59.00' LT

FIELD BEND
STA 321+28.00,
73.33' RT

P-1308
150-500720

SEE PAD DETAIL "A"

SEE PAD DETAIL "C"

C-P-1612
25- -A
TRAFFIC SIGNAL

45° BEND
STA 321+01.19,
70.68' RT

C-1UA2K
R-1UA2K
E-1-2.5"K
44'

C-T031393
STA 320+85.50
55.00' RT

C-PR-1603

8076691A
CO.150

R-PR-1603

P-33A

A-1-2.5"K

R-1UA2K
R-1UTX1OLK
A-1-2.5"K
84'

FIELD BEND
STA 320+74.29,
74.03' RT

90° BEND
STA 1237+66.26,
75.63' RT

C-1UTX1OLK
C-1-2.5"K
8'

C-1UTX1OLK
C-1-2.5"K
228'

90° BEND
STA 1239+95.73,
82.49' RT

C-3UC750K
R-3UC750K
E-6UC750K
E-3UC20B
E-9-3"K-
ENCASED
34'

PDP-1322

C-3UC750K
R-3UC750K
E-3UC750K
E-1UTX1OLK
E-2UC20B
E-9-3"K
E-1-2.5"K
ENCASED
119'

PD-1323
600A GOS

A-3-3"K

TO J-BOX
TO PD-1325
TO PD-1410

C-3UC750K
R-3UC750K
E-3UC750K
E-1UC20B
E-6-3"K
E-2UC20B
E-3UC20B
E-9-3"K
E-1-2.5"K
ENCASED
67'

C-1UTX1OLK
C-1-2.5"K
22'

E-2UTX1OLK
E-2-2.5"K

E-6UC750K
E-3UC20B
E-6-3"K
ENCASED

C-3UC750K
R-3UC750K
E-3UC750K
E-1UTX1OLK
E-2UC20B
E-9-3"K
E-1-2.5"K
ENCASED
132'

E-6UC750K
E-1UTX1OLK
E-2UC20B
E-9-3"K
E-1-2.5"K
ENCASED

C-T0308053
STA 1237+66.60,
64.80' LT

C-3UC750K
R-3UC750K
E-1UC20B
E-3-3"K
ENCASED
207'

E-1UTX1OLK
E-1-2.5"K

E-3UA750K
E-3-3"K

C-3UC750K
R-3UC750K
E-1UC20B
E-6-3"K
(ENCASED)
343'

AA-09-16 AA-10-13
AA-16-01 AA-15-04

A-1-2.5"K

PRL-1609

R-T0144714

FIELD BEND
STA 1237+34.92,
62.91' LT

SECTION LINE

MC85 CONST ℄

W BUCKEYE RD

Δ 09°41' 38" LT
D 00°35' 05"
R 9800.00'
L 1658.06'
T 831.01'

PH299554

PH299556

E-2UTX1OLK
E-2-2.5"K

E-3UC750K
E-1UTX1OLK
E-1UC20B
E-6-3"K
E-1-2.5"K
ENCASED

E-1UTX1OLK
E-1-2.5"K

TO J-BOX

E-1UC20B
E-3-3"K

E-3UC750K
E-1UC20B
E-3-3"K

E-3UA750K
E-3UC750K
E-6-3"K

E-1UC20B
E-UKB3

E-3UC750K
E-1UC20B
E-3-3"K

E-6UA750K
E-6-3"K

C-3UC750K
R-3UA750K
E-6-3"K
18'

PDP-0402

PDP-0404

E-6UC750K
E-1UTX1OLK
E-2UC20B
E-12-3"K
E-1-2.5"K
ENCASED

MH-0406
OCT

E-3UA750K
E-1UC20B
E-6-3"K
(ENCASED)

E-3UA750K
E-3UC750K
E-1UC20B
E-6-3"K
(ENCASED)

E-9UA750K
E-1UTX1OLK
E-2UC20B
E-9-3"K
E-1-2.5"K
(ENCASED)

E-12UA750K
E-1UTX1OLK
E-3UC20B
E-12-3"K
E-3-3"K
E-1-2.5"K
(ENCASED)

45° BEND
STA 318+11.24,
73.96' RT

STA 318+11.24,
35.00' RT

C-1-2.5"K
10'

C-1-2.5"K
39'

E-3UA750K
E-3UC750K
E-6-3"K

E-6UA750K
E-1UTX1OLK
E-1UC20B
E-6-3"K
E-1-2.5"K
(ENCASED)

E-3UA750K
E-6UC750K
E-2UC20B
E-6-3"K
(ENCASED)

PD-0407
600A GOS

PD-0502
TO J-BOX

E-3UA750K
E-1UTX1OLK
E-1UC20B
E-3-3"K
E-1-2.5"K
(ENCASED)

TO MH-0405
TO PRL-0403
TO PRL-0401

S 91ST AVE

W BUCKEYE RD

PI: 315+45.83

PRC: 1228+74.63

PRC: 1245+33.68

PAD DETAIL "A"

N
NTS

C-P-1612
25- -A
TRAFFIC SIGNAL

STA 1235+56.31,
84.08' LT

4.35'

STA 1235+53.88,
81.54' LT

PROPOSED
SRP IRRIGATION

65'
EXST R/W

C-3-2.5"K
4'

SECTION LINE

1235+50

MC85 CONST ℄

PAD DETAIL "B"

N
NTS

55'
EXST R/W

15'
PUE

63.58'
PROP BW

58.58'
PROP BC

58.00'
PROP FC

STA 322+18.33,
73.15' RT

C-PD-1319
600A GOS

SECTION
LINE

91ST AVE
CONST ℄

322+00

STA 322+12.00,
73.23' RT

22.5° BEND
STA 322+05.88,
72.31' RT

C-1UTX1OLK
C-1-2.5"K
2'

1'

PAD DETAIL "C"

PULLBOX TO GO IN PLACE OF THE POLE TO BE REMOVED. SURVEY SET TO OPEN TRENCH STAKE FOR FINAL LOCATION OF THE PULLBOX.

N
NTS

R-P-32A
90(07)

R-PRL-1321

EX. SRP
WELLSITE
FENCE

EX. CENTURYLINK
FIBER ABANDON
AND REMOVE

CONDUIT SPLICE POINT
STA 1237+58.79,
63.06' LT

MC85 CONST ℄

1237+00

NATURAL GAS YES [X] NO [ ]

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SHEET NUMBER 5 OF 8

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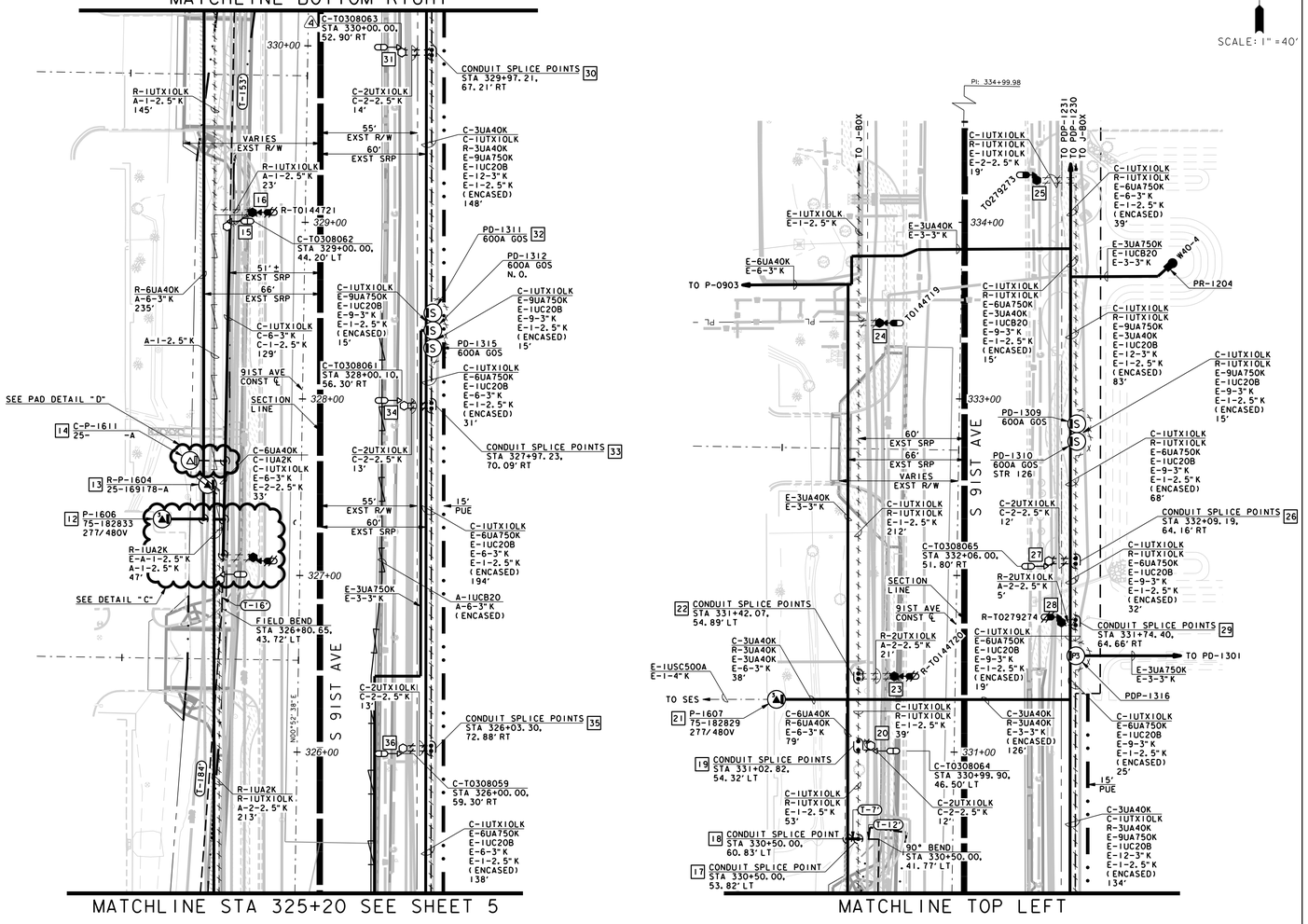
In Maricopa County: 1-602-263-1100

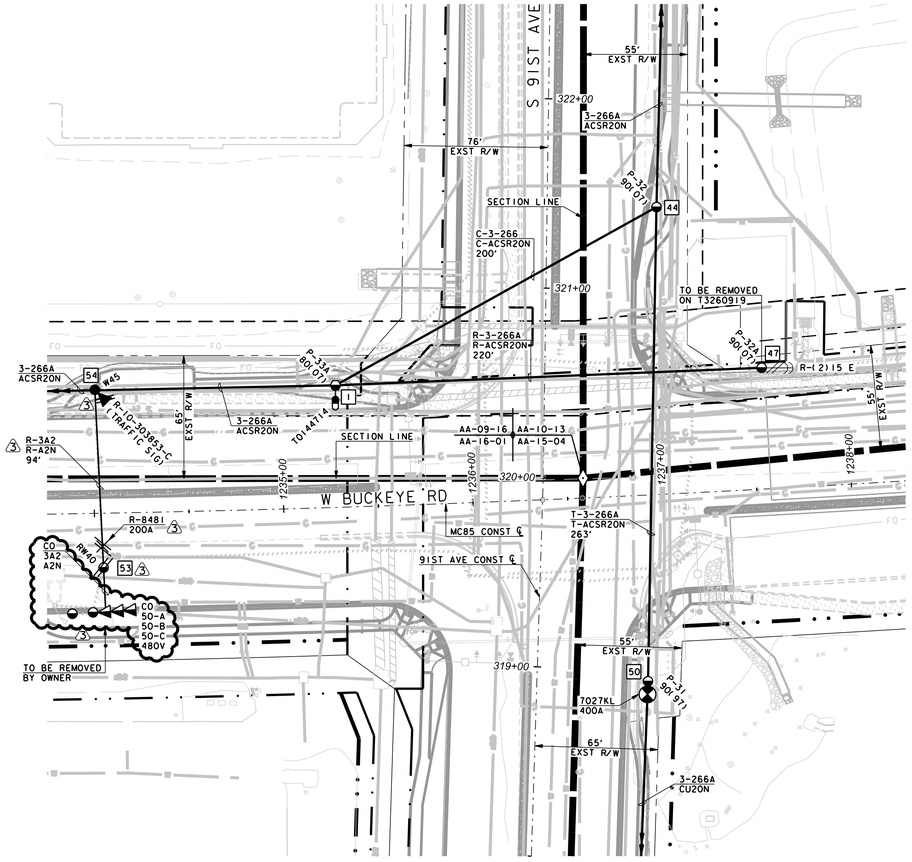
SRP

ADLAWREN • 13-JUL-2022 10:11 • //srp.gov/80000/E&CS/82xxx Job Order Files/82515 JobOrders/Customer Improvements JobOrders/T2113021 CUS UW CONV BUCKEYE RD 95TH AVE-107TH AVE/T2113033 - CUS UW MC85 PHASE I 95TH AVE - 107TH AVE CONV/T2113033-JWF.dgn

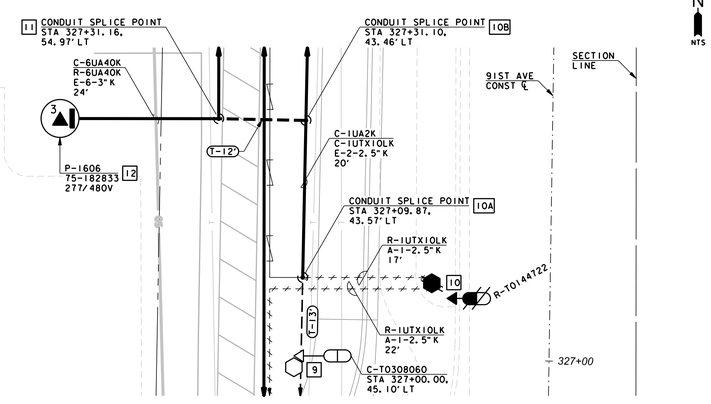
MAIN LINE



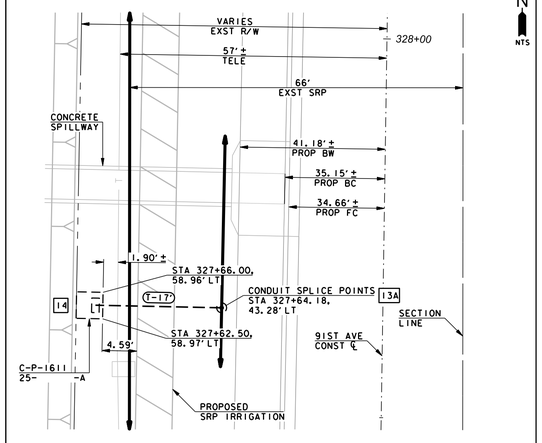
OVERHEAD



DETAIL "C"



PAD DETAIL "D"



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PROJECT LEADER: JASON HUGHES
MOBILE: (602)236-0886
INSPECTIONS-
OFFICE: (602)236-0436

NATURAL GAS YES [x] NO [ ]
JOB NAME CUS UW MC85 PHASE I: 95TH AVE - 107TH AVE CONV
ADDRESS/LOCATION 91ST AVE & BUCKEYE RD
CONTACT KELLY ROY PHONE 602-721-2774
BILLING ACCT NO.
FIS JO MAP 1/4 SW S10 TIN RIE
40/ACRE AA-10-13 COORDS 3 1/16 E - 4 1/16 N
AMP WO T2113033 AMP VERSION
COST CENTER 22660
ROUTING CODE DDI, 5CSI, E, H, I, T+0

Call at least two full working days before you begin excavation. ARIZONA811 Arizona Blue Stake, Inc. Dial 811 or 1-800-STAKE-IT (782-5348) In Maricopa County: 1(602)263-1100

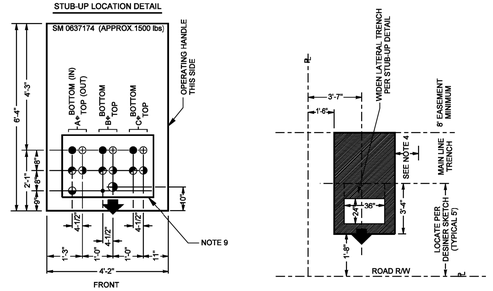
SHEET NUMBER 6 OF 8

SRP PROPRIETARY

ADLAWREN • 13-JUL-2022 10:11 • //srp.gov/80000/E&CS/82xxx Job Order Files/82515 Job Orders/Customer Improvements Job Orders/T2113021 CUS UW CONV MC85 PHASE I 95TH AVE - 107TH AVE CONV/T2113033-JMF.dgn

ADLAMREN • 13-JUL-2022 10:13 • //srp.gov/80000/EECS/82xxx Job Order Files/82515 JobOrders/Customer Improvements JobOrders/T2113021 CUS UW MC85 PHASE I 95TH AVE - 107TH AVE CONV/T2113033-JMF.dgn

STUB-UP LOCATION DETAIL



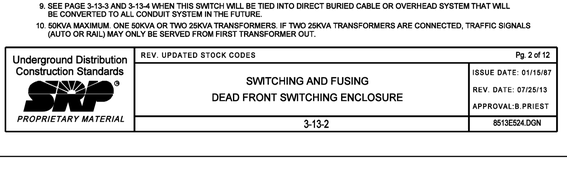
IDENTIFICATION OF SYMBOLS

SYMBOL	POSITION	CABLE TERMINATION
1 ○	TOP	3" CONDUIT FOR EITHER: 500MCM FEEDER OR 750MCM FEEDER
2 ◑	TOP-TAP	3" CONDUIT FOR EITHER: 500MCM FEEDER, 750MCM FEEDER OR 4/0 AL
3 ◑	TOP-TAP	4" CONDUIT FOR 3-4/0 AL (NOTE 8)
4 ◒	TOP-TAP	2-1/2" CONDUIT FOR FUSED SINGLE PHASE TRANSFORMER (NOTE 10) TAP INTERNALLY FUSED. (A Ø TOP ONLY)
5 ◔	BOTTOM-TAP	3" CONDUIT FOR 4/0 AL CAPACITOR TAP (W/SYMBOL #6 BELOW REQUIRES PARKING STAND EXTENSION 5035030)
6 ●	BOTTOM	3" CONDUIT FOR EITHER: 500MCM FEEDER OR 750MCM FEEDER
7 •	GROUND ROD	

NOTES:

1. ALL PAD ELEVATIONS SHALL BE ESTABLISHED BY SURVEY (BLUE TOP), AND TOP OF PAD SHALL BE 4" ABOVE FINAL GRADE IN IMMEDIATE AREA.
2. PAD MUST BE LEVEL BEFORE SETTING ENCLOSURE.
3. AREA UNDER PAD MUST BE COMPACTED PER TRENCH SPECIFICATIONS.
4. MAINTAIN A MINIMUM OF 3 FT SEPARATION BETWEEN SWITCH PAD AND THE PAD OF ADJACENT EQUIPMENT.
5. IF 3 FT OF CLEAR SPACE ON THE RIGHT SIDE (NOTE 4) IS OBSTRUCTED, A SWITCH WITH THE OPERATING HANDLE ON THE LEFT IS AVAILABLE (STOCK CODE 5034623). BEWARE THIS SWITCH DOES NOT HAVE THE SINGLE-PHASE FUSED TAP CAPACITY.
6. MAINTAIN A MINIMUM OF 12 FT CLEARANCE IN FRONT OF SWITCH DOORS.
7. IF OBSTACLES ARE ANTICIPATED IN FRONT OF THE SWITCH (E.G. DESIGNATED PARKING), THE SWITCH SHALL BE ROTATED 90° SO THE OPERATING HANDLE FACES ROAD RIGHT-OF-WAY. ADDITIONAL LABELING SHALL BE PLACED ON THE SIDE OF THE ENCLOSURE FACING ROAD RIGHT OF WAY.
8. STUB UP ONE 4" CONDUIT AS SHOWN ABOVE WHEN TAPPING INTO AN EXISTING 3-4/0 AL IN ONE 4" CONDUIT. THIS AVOIDS THE NEED FOR A PULL BOX AT THE SWITCH TO SEPERATE THE 4/0 AL OUT INTO 3 -3" CONDUIT.
9. SEE PAGE 3-13-3 AND 3-13-4 WHEN THIS SWITCH WILL BE TIED INTO DIRECT BURIED CABLE OR OVERHEAD SYSTEM THAT WILL BE CONVERTED TO ALL CONDUIT SYSTEM IN THE FUTURE.
10. 50KVA MAXIMUM. ONE 50KVA OR TWO 25KVA TRANSFORMERS. IF TWO 25KVA TRANSFORMERS ARE CONNECTED, TRAFFIC SIGNALS (AUTO OR RAIL) MAY ONLY BE SERVED FROM FIRST TRANSFORMER OUT.

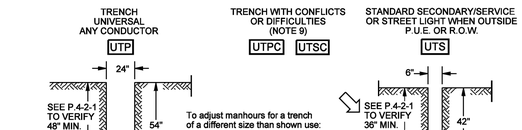
Underground Distribution Construction Standards	REV. UPDATED STOCK CODES	Pg. 2 of 12
PROPRIETARY MATERIAL	SWITCHING AND FUSING DEAD FRONT SWITCHING ENCLOSURE	ISSUE DATE: 01/15/87 REV. DATE: 07/25/13 APPROVAL:B.PRIEST
	3-13-2	8513E524.DGN



NOTES:

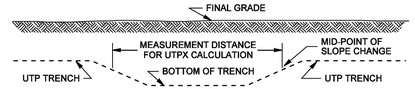
1. A 2/0 COPPER NEUTRAL WILL BE REQUIRED WITH DUCT BANKS FROM A SUBSTATION OUT TO THE TERMINATION OR SPLICE POINT AS SPECIFIED BY DESIGNER. SEE PAGE 4-13-2 FOR 2/0 COPPER INSTALLATION INSTRUCTION
2. ALL UKB CONDUIT BANKS CONSIST OF 3" CONDUITS WITH A MINIMUM OF 2 IN CONTROLLED LOW STRENGTH MATERIAL (1- 1/2 SACKS CEMENT/YD.) ENCASEMENT AND WILL HAVE SPACERS LOCATED AT 6 FT INTERVALS.
3. ADD "F" TO CONDUIT BANK CODE WHEN ENCASING WITH FULL STRENGTH CONCRETE.
4. ADD SUFFIX "FE" TO GET ENCASING WITH FULL STRENGTH RED CONCRETE. (EL PASO GAS CROSSING)
5. CONDUIT CONFIGURATIONS OTHER THAN THOSE SHOWN MUST BE SPECIFIED BY DESIGNER ON SKETCH, INSIDE SPACES OF UKB9, UKB12 & UKB15 ARE NOT TO BE USED, AS EXCESS HEATING WILL RESULT.
6. THESE CONDUIT BANKS, WITH THE EXCEPTION OF SUBSTATION GET-AWAYS, MAY BE ROTATED 90 OR 180 DEGREES AS SPECIFIED BY DESIGNER.
7. WHEN TRENCHING UNDER EXISTING CONDUIT BANKS REFER TO UKBS2 FOR SUPPORTING SPECIFICATIONS (PG. 4-16-1).
8. THE ABOVE DIMENSIONS ARE NOMINAL OVERALL FOR DETERMINING TRENCH DIMENSIONS.
9. INDIVIDUAL CONDUITS ARE NOT TO BE ENCIRCLED WITH STEEL SUCH AS WIRE OR REBAR AS EXCESSIVE HEATING WILL RESULT. ENCIRCLEMENT AROUND ENTIRE DUCT BANK IS THERMISSIBLE.
10. REFER TO CLEARANCE SECTION FOR MINIMUM COVER OF A DUCT BANK INSTALLED IN ROAD RIGHT OF WAYS.
11. ON SUBSTATION GET-AWAYS DESIGNATE TOP ROW OF CONDUIT TO BE IN TOP WINDOW OF MANHOLE.

Underground Distribution Construction Standards	REV: UPDATED STOCK CODES	Page 1 of 2
PROPRIETARY MATERIAL	CONDUIT FEEDER OR PRIMARY 3" CONDUIT BANK SPECIFICATION CODES	ISSUE DATE: 01/15/87 REV. DATE: 11/30/14 APPROVAL:B.PRIEST
	4-13-1	8513E13.DGN



NOTES:

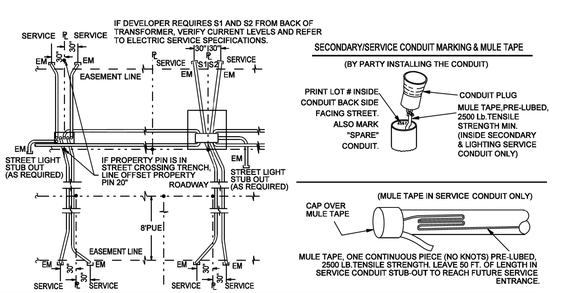
1. Trench depths and conduit cover are to be measured from final grade stakes. All trench depths or conduit cover requirements specified on a job drawing shall be followed.
2. These trench codes provide man-hours for excavation only and do not provide for trench backfill.
3. The total trench footage length will be shown in the grid as standard trench, either UTP for primary or UTS for secondary, street light, or service. When trench is provided by customer, this is the only coding required on the job grid.
4. Non standard trench locations will be identified on the job order sketch with required width and depth dimensions given.
5. When trenching is provided by SRP, non standard trenches shall have 2 compatible unit codes in the grid, UTP plus the UTPX, to adjust the time for digging.
6. When specified depth cannot be obtained because of solid rock, a minimum earth cover of 24" is acceptable, provided a minimum 2" encasement of concrete surrounds the conduit.
7. Use example shown to figure length of UTPX trench, unless the entire trench is non standard.



UTPX quantity = the factor from the UT-X Chart multiplied by the trench footage length which is non-standard, as calculated in item 4. If multiple calculations for non-standard trench are made, add all totals together, only one entry is needed for UTPX quantity in the grid.

8. If secondary/service or street light must be placed in P.U.E. or road R.O.W.,use UTP trench dimensions and enter UTS as the compatible unit.
9. Provides 1.5 times regular man-hours.
10. Trench bottom to be smooth and free of sharp rocks. Where excavation is in rock, bottom of trench to have protective layer of clean, level, tamped backfill or sand.

Underground Distribution Construction Standards	REV. CORRECTED TRENCH DEPTH TYPO.	Page 1 of 2
PROPRIETARY MATERIAL	TRENCHING EXCAVATION CODES	ISSUE DATE: 01/15/87 REV. DATE: 03/06/13 APPROVAL: B.PRIEST
	6-11-1	8513E135.DGN

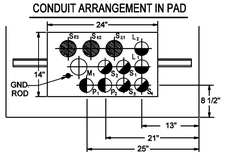


SECONDARY/SERVICE CONDUIT MARKING & MULE TAPE

(BY PARTY INSTALLING THE CONDUIT)

(MULE TAPE IN SERVICE CONDUIT ONLY)

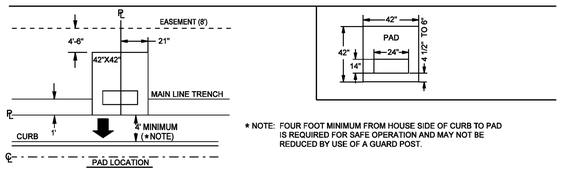
CONDUIT ARRANGEMENT IN PAD



THE MAX. NO. OF SERVICE & SECONDARY CONDUITS IS 8.
S● - SECONDARY CONDUIT 3"
L ◒ - LIGHT CONDUIT 2-1/2"
S ◒ - SERVICE CONDUIT 2-1/2"
P ◐ - PRIMARY CONDUIT 2-1/2"
M1○ - M1 MAY BE A SERVICE OR A SECONDARY.
2 1/2" O.D. = 2.875"
3" O.D. = 3.5"

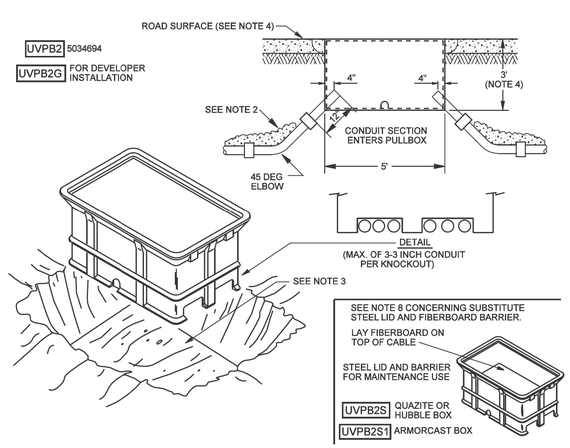
NOTES

1. CONNECT GROUND ROD TO TRANSFORMER GROUND LUG WITH #4 CU WIRE.
2. TOP OF GROUND ROD AND ALL CONDUITS ARE TO BE 5 INCHES ABOVE FINAL GRADE FOR ALL NEW TRANSFORMER INSTALLATIONS.
3. ALL REQUIRED CONDUITS SHALL BE INSTALLED PRIOR TO BACKFILL.
4. INSTALL PLUGS IN ALL CONDUIT STUB-UPS. DO NOT GLUE PLUGS.
5. IF ONLY ONE SECONDARY IS TO BE INSTALLED, PLACE IT IN POSITION SE2.
6. IF NO SECONDARY NEEDED, SE1, SE2 & SE3 MAY BE USED FOR SERVICES 6, 7 & 8.



* NOTE: FOUR FOOT MINIMUM FROM HOUSE SIDE OF CURB TO PAD IS REQUIRED FOR SAFE OPERATION AND MAY NOT BE REDUCED BY USE OF A GUARD POST.

Underground Distribution Construction Standards	REV. REFORMAT.	PAGE 3 OF 6
PROPRIETARY MATERIAL	TRANSFORMERS - SINGLE PHASE RESIDENTIAL TRANSFORMER PAD CONDUIT STUB-UP DETAIL WITH ABOVE GROUND JUNCTION BOXES (FRONT OF PUE, PREFERRED)	ISSUE DATE: 09/24/03 REV. DATE: 09/26/12 APPROVAL:B.PRIEST
	9-11-3	8513E511.DGN



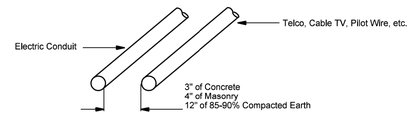
NOTES:

1. THIS UNIT IS LOAD BEARING FOR USE IN AREAS SUCH AS A PARKING LOT, BUT NOT IN THE TRAVELLED WAY. FOR APPLICATION WHERE NO VEHICLE TRAFFIC EXISTS THIS BOX MAY BE INSTALLED WITHOUT THE CONCRETE RING.
2. ELBOWS INTO PULL BOX SHALL BE GROUTED IN (ELBOWS NOT INCLUDED IN THIS COMPATIBLE UNIT).
3. CARE SHALL BE TAKEN TO PROVIDE A SMOOTH, LEVEL, WELL COMPACTED BASE TO SET THE BOX ON. DIMENSIONS AT BOTTOM OF EXCAVATION SHALL BE A MINIMUM OF 6 FEET BY 8 FT. COMPACT AROUND SIDES OF BOX TO PREVENT SETTLING AROUND BOX.
4. WHEN INSTALLED IN CONCRETE, ASPHALT, OR A FIXED GRADE, THE BOX SHALL BE FLUSH MOUNTED WITH EXISTING GRADE PER DETAIL ON NEXT PAGE.
5. CUSTOMER SUPPLIED PULL BOX MUST MEET SPECIFICATIONS LISTED IN STOCK DESCRIPTION OF 5034694.
6. CONDUITS MUST EXTEND A MINIMUM OF 4 INCHES INSIDE OF BOX.
7. ABOVE GROUND PULL BOXES ARE PREFERRED. USE UVPB2 OR UVPB2G AS A LAST RESORT ONLY.
8. A STEEL LID (#5034693 FOR A QUAZITE/HUBBLE BOX, OR #5034688 FOR AN ARMORCAST BOX) IS AVAILABLE FOR REPLACEMENT OF DAMAGED LIDS.NOT FOR STREET INSTALLATION. BEFORE STEEL LID IS SET,LAY FIBERBOARD (#5034048) ON TOP OF CABLE. ALL CABLE SHOULD BE BELOW THE FIBERBOARD BARRIER.

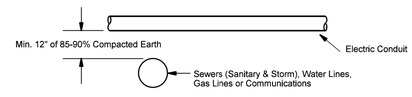
Underground Distribution Construction Standards	REV: UPDATED STOCK CODES	Pg.1 of 2
PROPRIETARY MATERIAL	VAULTS, MANHOLES AND BOXES 5'x 3'x 3' PULL BOX FLUSH MOUNT (LOAD BEARING)	ISSUE DATE: 01/15/87 REV. DATE: 07/31/13 APPROVAL:B.PRIEST
	7-7-1	8513E102.DGN

NOTES

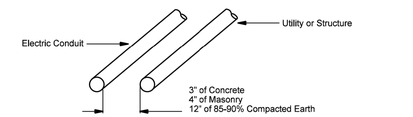
1. Minimum vertical or horizontal separations between electric conduit systems and communications conduit systems (NESC Rule 320B2):



2. Minimum clearance between an electric conduit system and other existing underground structures or utilities (Note 4):



3. Horizontal clearance for parallel structures (NESC Rule 320B):



4. An alternative to 12" of 85-90% compacted earth is a rigid support for the upper structure to prevent it from transferring any direct load to lower structure.
5. Conduit should be installed as far as practical from a water main to protect it from being undermined if the main breaks.
6. Municipals and other utilities may have additional requirements.

Electric Service Specifications		
PROPRIETARY MATERIAL	CLEARANCES UNDERGROUND CONDUIT	ISSUE DATE: 04/15/86 REV. DATE: 10/25/12 APPROVAL: W.LARAMIE
	5-3	8509E149.DGN

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MOBILE:(602)236-0886
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NATURAL GAS YES [x] NO [ ]

JOB NAME CUS UW MC85 PHASE I: 95TH AVE - 107TH AVE CONV
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BILLING ACCT NO.
FIS JO MAP 1/4 SW S10 T1N R1E
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AMP WO T2113033 AMP VERSION
COST CENTER 22660
ROUTING CODE DD1, 5CSI, E, H, I, T+O

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SHEET NUMBER 7 OF 8

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ADLAMWREN • 13-JUL-2022 10:15 • /srp_gov/80000/EACS/82xxx Job Order Files/82515 Job0rders/Customer Improvements Job0rders/T2113021 CUS UW MC85 PHASE I 95TH AVE - 107TH AVE CONV/T2113033-JMF.dgn

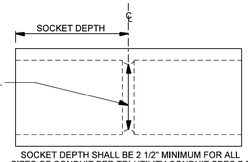
PVC STRAIGHT AND ELBOW BELLED END

CONDUIT DIAMETER	MINIMUM SOCKET DEPTH
2 1/2"	2 3/8"
3"	2 7/8"

COUPLINGS

SHALL NOT BE LESS THAN THE INSIDE DIAMETER OF THE DB120 STRAIGHT CONDUIT IT CONNECTS.

CONDUIT COUPLING DIAMETER	COUPLING SRP MATERIAL ITEM NUMBER
2 1/2"	5034166
3"	5034168

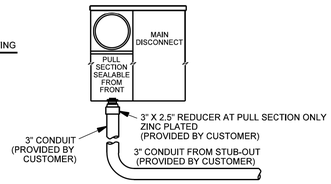


SOCKET DEPTH SHALL BE 2 1/2" MINIMUM FOR ALL SIZES OF CONDUIT PER TRI-UTILITY CONDUIT SPEC 7.8

END BELL FITTING

CONDUIT STUB UP MUST BE SPACED MINIMUM 3/4" APART TO INSTALL END BELL FITTING.

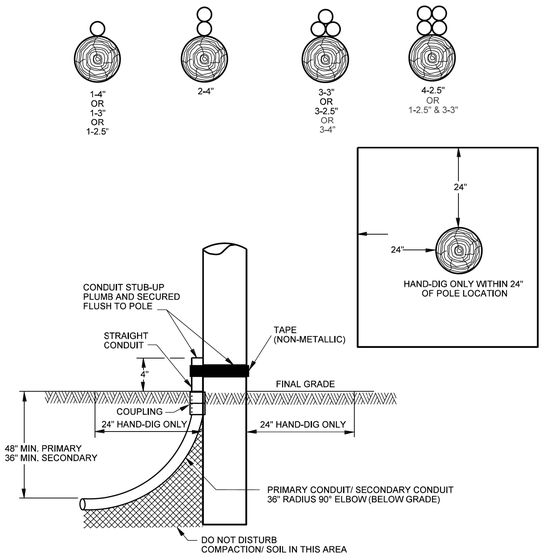
REDUCER AT PULL FITTING



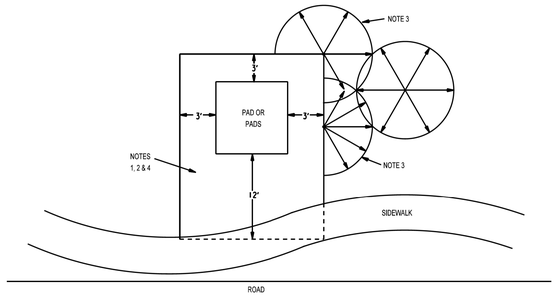
Electric Service Specifications		
PROPRIETARY MATERIAL	TRENCHING AND CONDUIT SIZES & SPECIFICATIONS BELLED ENDS AND FITTINGS	ISSUE DATE: 03/13/01 REV. DATE: 05/22/13 APPROVAL: W.LARAMIE
	6-3	8509E127.DGN

SECTION 6: TRENCHING AND CONDUIT

Required Conduit Configuration to fit Riser Boots
(The quadrant configuration for the pole riser will be specified by the Designer)



Electric Service Specifications	REV. ADDED 3-4" & 1-2.5" + 3-3"	
PROPRIETARY MATERIAL	TRENCHING AND CONDUIT POLE RISER ELBOW AND LOCATION	ISSUE DATE: 09/01/09 REV. DATE: 11/11/20 APPROVAL: J. Luera
	6-4	8509E310.DGN



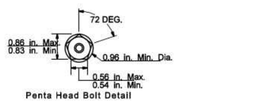
NOTES

1. Easement grantor shall maintain a clear area that extends 3' from and around all edges of all transformer pads and other equipment pads and a clear operational area that extends 12' immediately in front of all transformer and other equipment openings. Do not place obstructions, trees, shrubs, fixtures or permanent structures within aforementioned areas. Easement documents may supersede these requirements.
2. This same clear area shall be dry landscaped.
3. Direct sprinkler heads away from pad-mounted equipment, as shown above. Sprinkler heads shall not spray on pad-mounted equipment or dry landscaped area around equipment.
4. Dry landscape surface may be native soil, concrete, asphalt pavement or crushed granite or gravel with a maximum particle size no greater than 1".
5. A border curb is required if SRP installs the landscape.

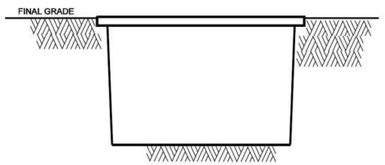
Electric Service Specifications		
PROPRIETARY MATERIAL	CLEARANCES DRY LANDSCAPE CONTROLLED AREA DETAIL	ISSUE DATE: 03/02/01 REV. DATE: 10/25/12 APPROVAL: W.LARAMIE
	5-10	8509E133.DGN

J-BOX 15" X 21" X 12"

COMPOSOLITE FLUSH MOUNTED, BOLT-ON

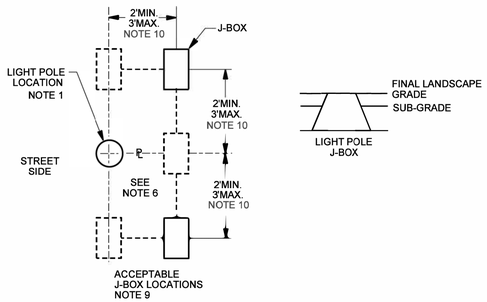


Penta Head Bolt Detail



SRP Material Item No. 5034692	
Description	
Noun	Box
Adjective	Junction
Size	15" x 21" x 12", with large head Penta bolts
Style	Word "electric" on cover
Special Ref.	Box to be polymer concrete material with polymer concrete bolt down (non-conductive cover).
Approved Suppliers	**Part Number**
Armorcast Products	A6001429A
Carson & Associates	HLW1118-12 BOX, HLW1118-PO LID
CDR Systems	PA40-1015-12
Hubbel-Lenoir	PC1118B513 BOX, PC1118C504-17/UH0390AA cover with electric
Newbasis	PCA111812-00043

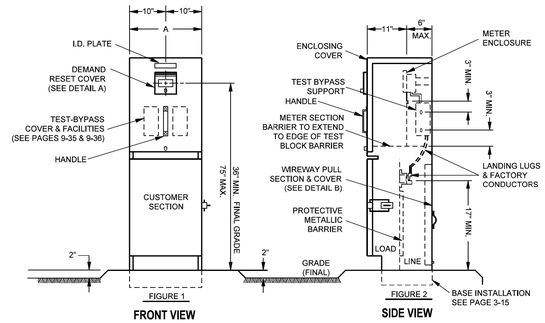
Electric Service Specifications	DGN 8513E543	
PROPRIETARY MATERIAL	CONTRACTOR-SUPPLIED MATERIAL J-BOX 15" X 21" X 12"	ISSUE DATE: 06/02/04 REV. DATE: 11/25/19 APPROVAL: M. Dyer
	11-3	ESS11-03.doc

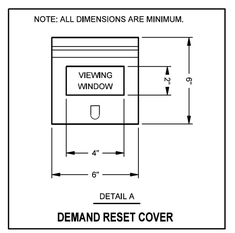


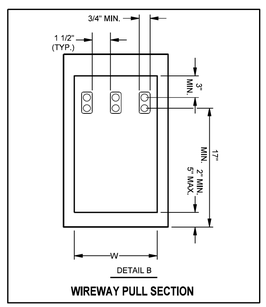
NOTES

1. CUSTOMER TO STAKE LIGHT LOCATION PER APPROVED MUNICIPAL PLAN.
2. GRADE STAKE TO BE WITHIN 2 FEET OF J-BOX LOCATION. CUSTOMER TO STAKE J-BOX LOCATION. AVOID CONFLICT WITH SIDEWALK, LANDSCAPING, ETC.
3. GROUND ROD TO BE INSTALLED FOR EACH STREET LIGHT LOCATION PER STANDARDS ON PAGE 9-1-1.
4. SEE SONOTUBE INSTALLATION DETAIL, PAGE 9-1-1, IF APPLICABLE.
5. #6 BARE COPPER GROUND WIRE TO BE ATTACHED FROM GROUNDING LUG ON STREET LIGHT POLE TO GROUND ROD IN J-BOX.
6. J-BOX MAY BE POSITIONED BEHIND THE POLE, EXCEPT IN THE CITIES OF CHANDLER AND GILBERT.
7. IF POLE IS IN PROXIMITY OF METALLIC APPARATUS SEE CONSTRUCTION STANDARDS SECTION, LIGHT POLES IN PROXIMITY OF METALLIC APPARATUS, BONDING. ALSO SEE SECTION 3 "ELECTRIC SERVICE REQUIREMENTS NOTE 6".
8. FOR PEDESTAL MOUNTED POLES THE J-BOX IS LOCATED ABOVE THE WATER LINE. SEE POLE PLACEMENT, WATER RETENTION BASIN.
9. SOME CLEARANCE RESTRICTIONS APPLY TO J-BOX LOCATIONS NEAR TRANSFORMERS, SEE DESIGN AMD MISCELLANEOUS, CLEAR AREA FOR CUSTOMER EQUIPMENT, ADJACENT TO TRANSFORMER.
10. FOR MUNICIPAL OWNED STREETLIGHT RELOCATIONS, THE DISTANCE FROM J-BOX TO STREETLIGHT MAY BE INCREASED 15'.

Outdoor Lighting Standards	REV. ADDED NOTE 10	PAGE X OF X
PROPRIETARY MATERIAL	DESIGN AND MISCELLANEOUS STREETLIGHT POLE J-BOX LOCATION DETAILS	ISSUE DATE: 11/19/01 REV. DATE: 5/18/20 APPROVAL: J. Luera
	3-11-1	8518E90.DGN







Electric Service Specifications		PAGE 1 OF 3
PROPRIETARY MATERIAL	SES - UNDERGROUND SERVICE AND METER PEDESTAL COMMERCIAL APPLICATION ONLY 200 AMPS MAXIMUM	ISSUE DATE: 04/15/86 REV. DATE: 08/22/12 APPROVAL: W.LARAMIE
	3-13	8509E54.DGN

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PROJECT LEADER:
JASON HUGHES
MOBILE:(602)236-0886
INSPECTIONS:
OFFICE:(602)236-0436

NATURAL GAS YES [x] NO [ ]

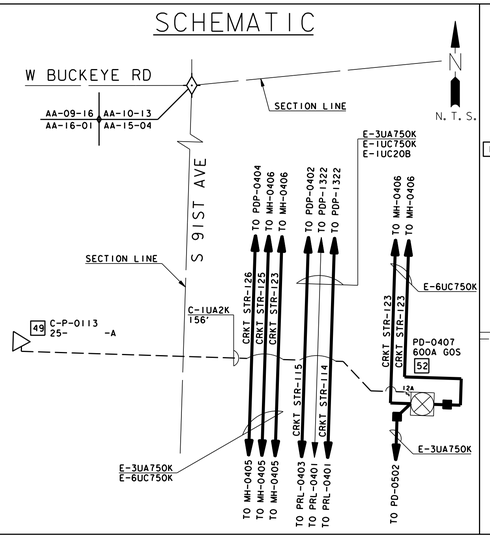
JOB NAME CUS UW MC85 PHASE I: 95TH AVE - 107TH AVE CONV
ADDRESS/LOCATION 91ST AVE & BUCKEYE RD
CONTACT KELLY ROY PHONE 602-721-2774
BILLING ACCT NO.
FIS JO MAP 1/4 SW S10 T1N R1E
40/ACRE AA-10-13 COORDS 3 1/16 E - 4 1/16 N
AMP WO T2113033 AMP VERSION
COST CENTER 22660
ROUTING CODE DD1.5CSI.E.H.I.T+O

Call at least two full working days before you begin excavation.
ARIZONA811
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: 1 (602) 263-1100

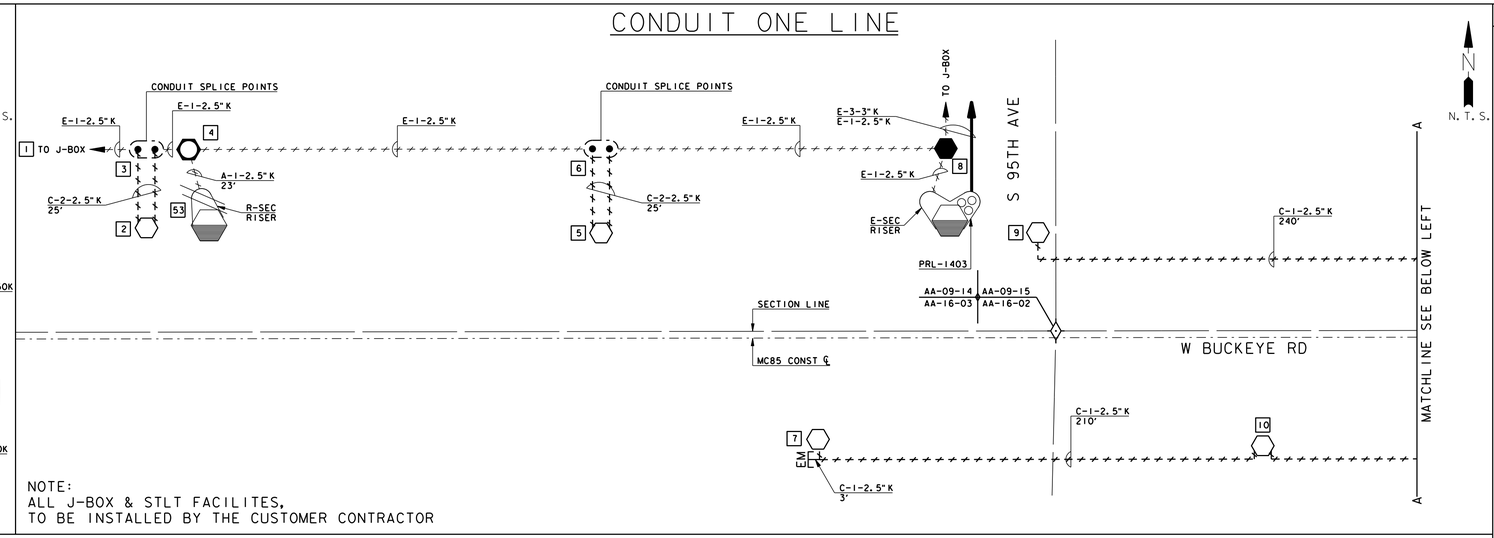
SHEET NUMBER 8 OF 8

ADLAWREN * 13-JUL-2022 09:10 * S:/92xx Job Order Files/82515 JobOrders/Customer Improvements JobOrders/13212269 CUS BUCKEYE RD 91ST AVE TO 86TH AVE/13229089 CUS UW BUCKEYE RD 91ST AVE TO 95TH AVE STLT/13229089.dgn

SCHEMATIC



CONDUIT ONE LINE



NOTE:
ALL J-BOX & STLT FACILITES,
TO BE INSTALLED BY THE CUSTOMER CONTRACTOR

GRAPHIC SYMBOLS

- PROPOSED STREET LIGHT CONDUCTOR & CONDUIT
- EXISTING PRIMARY TRENCH ROUTE
- EXISTING STREET LIGHT CONDUCTOR & CONDUIT
- EXISTING OVERHEAD SECONDARY CONDUCTOR
- EXISTING OVERHEAD STREET LIGHT CONDUCTOR
- EXISTING OVERHEAD SERVICE CONDUCTOR

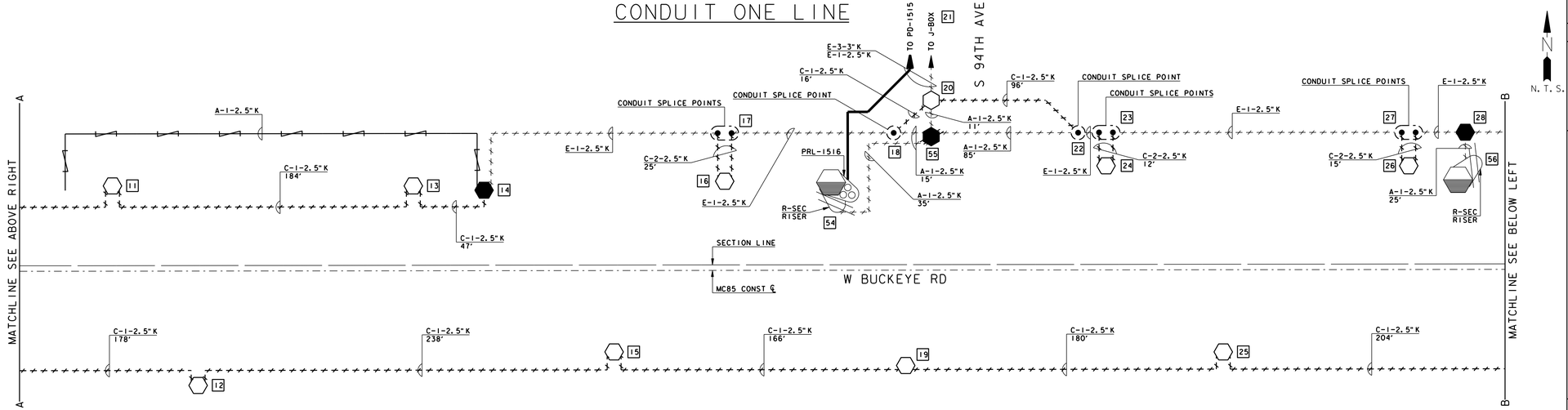
TYPICAL SRP ABBREVIATIONS

C = CONSTRUCT
R = REMOVE
A = ABANDON
R/W = RIGHT OF WAY

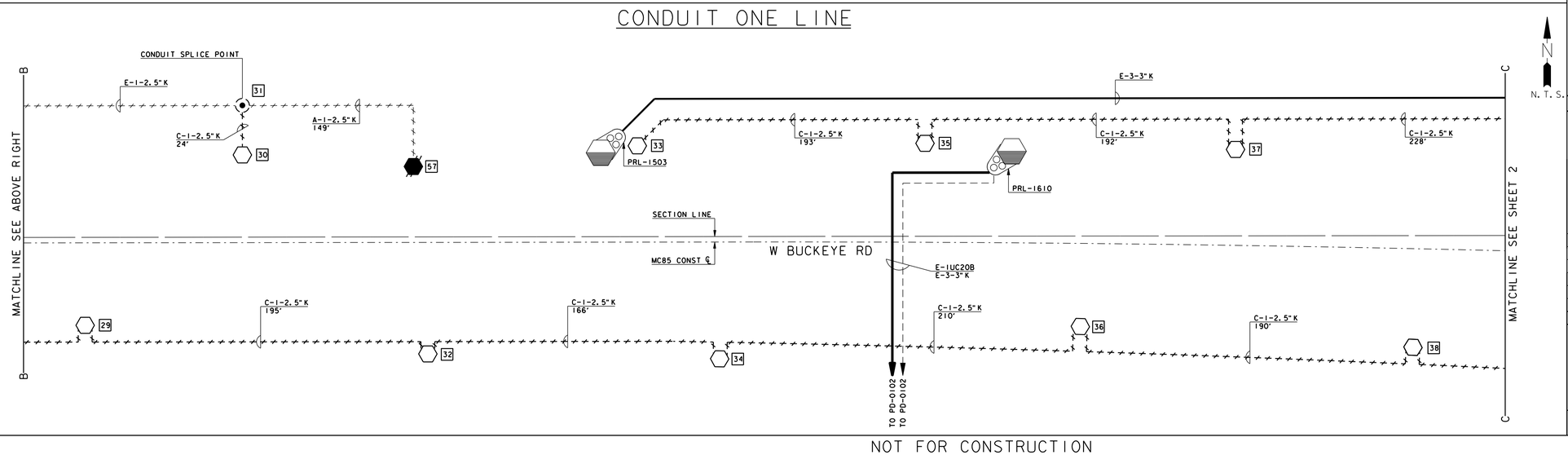
- DOUBLE SLASH LINES INDICATE REMOVAL/ABANDONMENT
- WORK POINT NUMBER

- BAR INDICATES FRONT OF DEVICE
- EXISTING MANHOLE
- EXISTING SWITCH
- EXISTING FEEDER PULLING ENCLOSURE
- EXISTING THREE PHASE TRANSFORMER
- EXISTING SINGLE PHASE TRANSFORMER
- EXISTING J-BOX
- PROPOSED J-BOX
- EXISTING CUSTOMER OWNED WOOD POLE
- EXISTING WOOD TRANSMISSION POLE
- EXISTING WOOD DISTRIBUTION POLE
- EXISTING STEEL TRANSMISSION POLE
- EXISTING 3 POT TRANSFORMER
- EXISTING POLE RISER
- EXISTING ROUTER
- ELECTRIC MARKER
- EXISTING STREET LIGHT ON STEEL POLE
- PROPOSED STREET LIGHT ON STEEL POLE

CONDUIT ONE LINE



CONDUIT ONE LINE

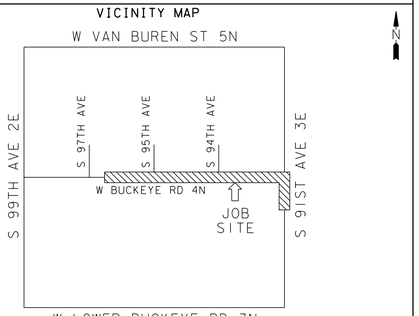


PROJECT NOTES

SRP ELECTRIC SERVICE SPECIFICATIONS ARE AVAILABLE ON-LINE AT:
HTTP://WWW.SRPNET.COM/ELECTRIC/BUSINESS/SPECS

STREET LIGHT LOCATIONS ARE SHOWN FOR REFERENCE ONLY.
THE DEVELOPER IS RESPONSIBLE FOR STAKING STREET LIGHT LOCATIONS PER THE APPROVED STREET LIGHT PLANS. REFER TO DETAILS 11-3 & 3-11-1.

VICINITY MAP



NOTICE
THIS JOB ORDER WORKS WITH OTHER JOBS.

O. H. = T3260919
SER. =
U. G. = T2113041
U. G. = T3303053
U. G. = T3301827
U. G. = T3229089
U. G. =

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MOBILE: (602) 236-0886
INSPECTIONS:
OFFICE: (602) 236-0436
CONSTRUCTION CONSULTANT:
JOE CORDEIRO
MOBILE: (602) 236-1113

FIELD INSTALLATION STAMP

SURVEY AND PERMIT INFORMATION

- ☐ SRP SURVEY TO STAKE FOR LOCATION AND TIE FOR EASEMENTS. CUSTOMER CONTROL POINTS REQUIRED: YES ☐ NO ☐
- ☐ CUSTOMER'S SURVEY TO STAKE FOR LOCATION/CONSTRUCTION AND TIE FOR EASEMENTS. CUSTOMER'S SURVEYOR MUST ATTEND PRE-CON MEETING.
- ☐ SRP SURVEY TO STAKE FOR LOCATION, NO EASEMENT REQUIRED.
- ☐ 3RD PARTY EASEMENT REQUIRED.
- ☐ NO SURVEY REQUIRED.
- ☐ PERMIT REQUIRED: CITY OF _____ COUNTY _____
  OTHER _____ PERMIT NO. _____
- ☐ NO PERMIT REQ.

REV	REVISED BY	DATE	REVISION DESCRIPTION
4			
3			
2			
1			
0	JMFREITA	5/20/20	JOB CREATED

NATURAL GAS YES [X] NO ☐

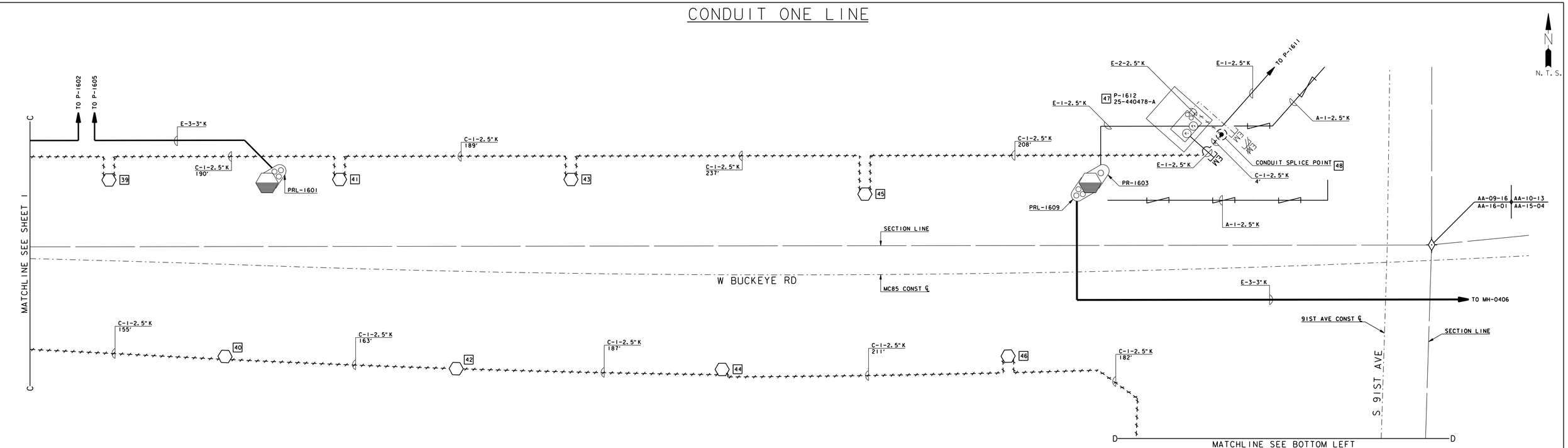
JOB NAME CUS UW BUCKEYE RD 91ST AVE TO 95TH AVE ST/LT
ADDRESS/LOCATION BUCKEYE RD: 91ST AVE TO 86TH AVE
CONTACT _____ PHONE _____
BILLING ACCT NO. _____
FIS JO _____ MAP 1/4 SE S 15 TIN RIE
40/ACRE AA-16-03 COORDS 2 1/2 E - 4N
AMP WO T3229089 AMP VERSION _____
COST CENTER 22660
ROUTING CODE DDI.5CSI.E+0

Contact Arizona 811 at least two full working days before you begin excavation. Call 811 or click Arizona811.com

SHEET NUMBER 1 OF 5

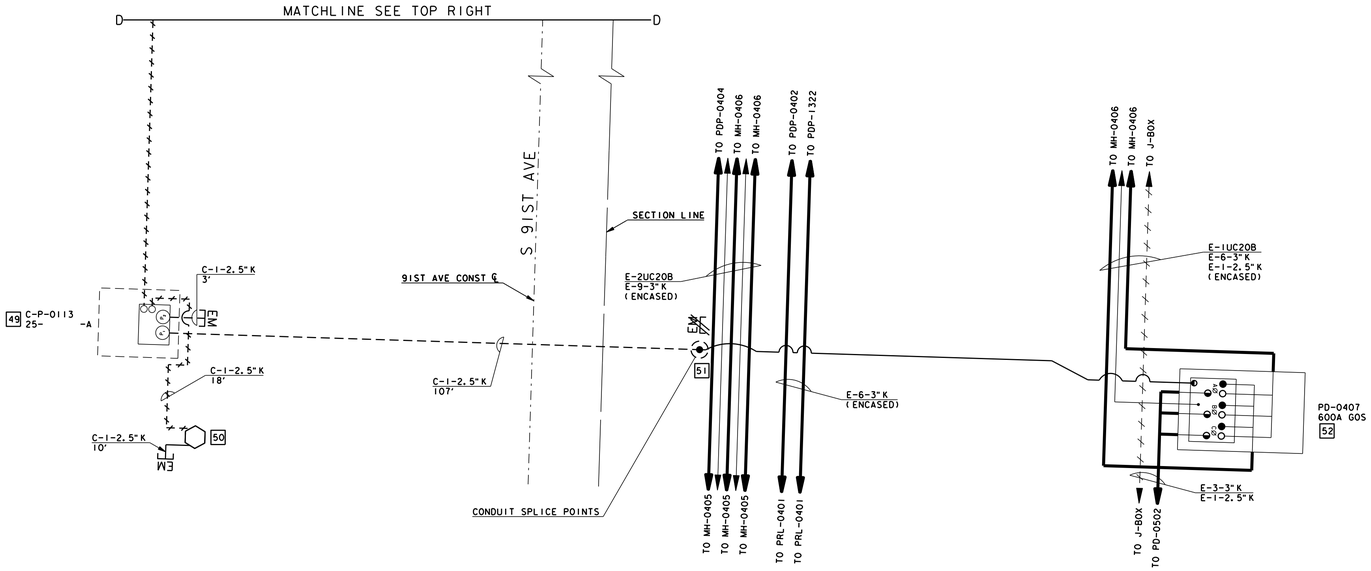
NOT FOR CONSTRUCTION

CONDUIT ONE LINE



NOTE:
ALL J-BOX & STLT FACILITES,
TO BE INSTALLED BY THE CUSTOMER CONTRACTOR

CONDUIT ONE LINE



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INSPECTIONS:
OFFICE:(602)236-0436
CONSTRUCTION CONSULTANT:
JOE CORDEIRO
MOBILE:(602)236-1113

NATURAL GAS YES [x] NO [ ]

JOB NAME CUS UW BUCKEYE RD 91ST AVE TO 95TH AVE ST/LT
ADDRESS/LOCATION BUCKEYE RD: 91ST AVE TO 86TH AVE
CONTACT PHONE
BILLING ACCT NO.
FIS JO MAP 1/4 SE S15 TIN RIE
40/ACRE AA-16-03 COORDS 2 1/2 E - 4N
AMP WO T3229089 AMP VERSION
COST CENTER 22660
ROUTING CODE DDT. 5CSI. E+O

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Arizona811
Call 811 or click Arizona811.com

SRP

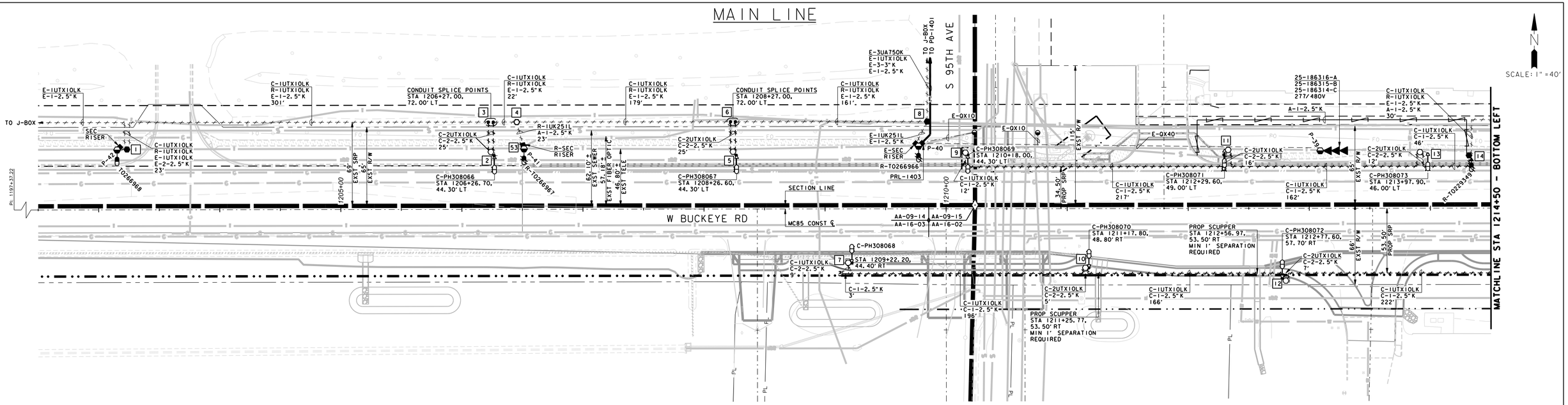
SHEET NUMBER 2 OF 5

NOT FOR CONSTRUCTION

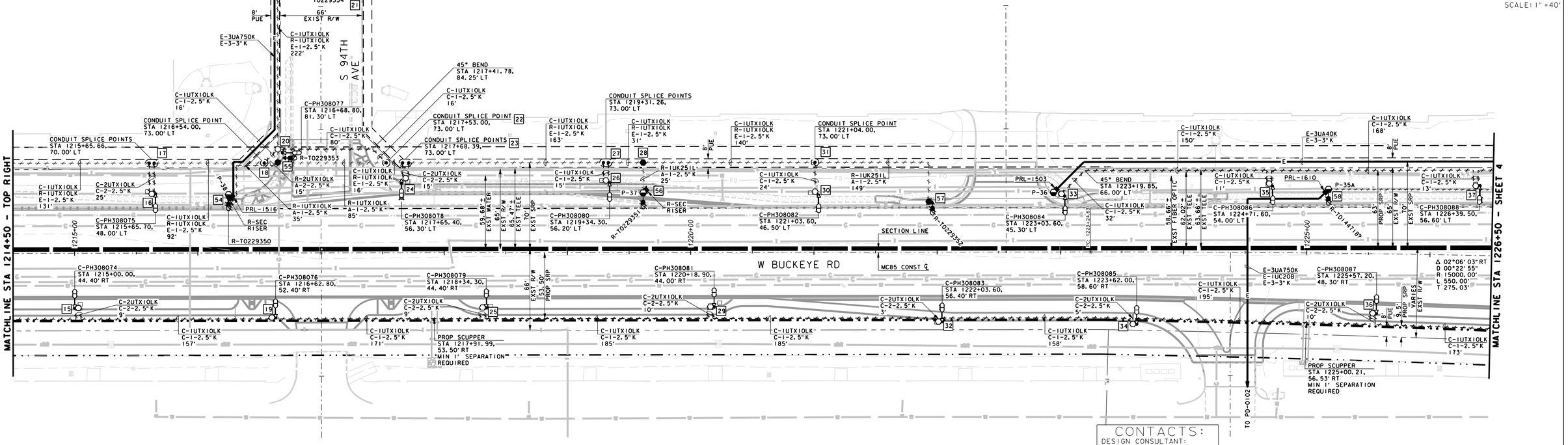
22x34frm, JD2 01-23-2019

ADLAWREN • 13-JUL-2022 09:11 • S:/82xxx Job Order Files/82515 JobOrders/Customer Improvements JobOrders/13212269 CUS BUCKEYE RD 91TH AVE TO 86TH AVE/13229089 CUS UW BUCKEYE RD 91ST AVE TO 95TH AVE STLT/13229089.dgn

MAIN LINE



MAIN LINE



NOT FOR CONSTRUCTION

CONTACTS:
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MOBILE:(602)748-6687
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JASON HUGHES
MOBILE:(602)236-0886
INSPECTIONS:
OFFICE:(602)236-0436
CONSTRUCTION CONSULTANT:
JOE CORDEIRO
MOBILE:(602)236-1113

NATURAL GAS YES [x] NO [ ]

JOB NAME CUS UW BUCKEYE RD 91ST AVE TO 95TH AVE ST/LT
ADDRESS/LOCATION BUCKEYE RD: 91ST AVE TO 86TH AVE
CONTACT PHONE
BILLING ACCT NO.
FIS JO MAP 1/4 SE S15 T1N R1E
40/ACRE AA-16-03 COORDS 2 1/2 E - 4N
AMP WO T3229089 AMP VERSION
COST CENTER 22660
ROUTING CODE DDI.5CSI.E+O

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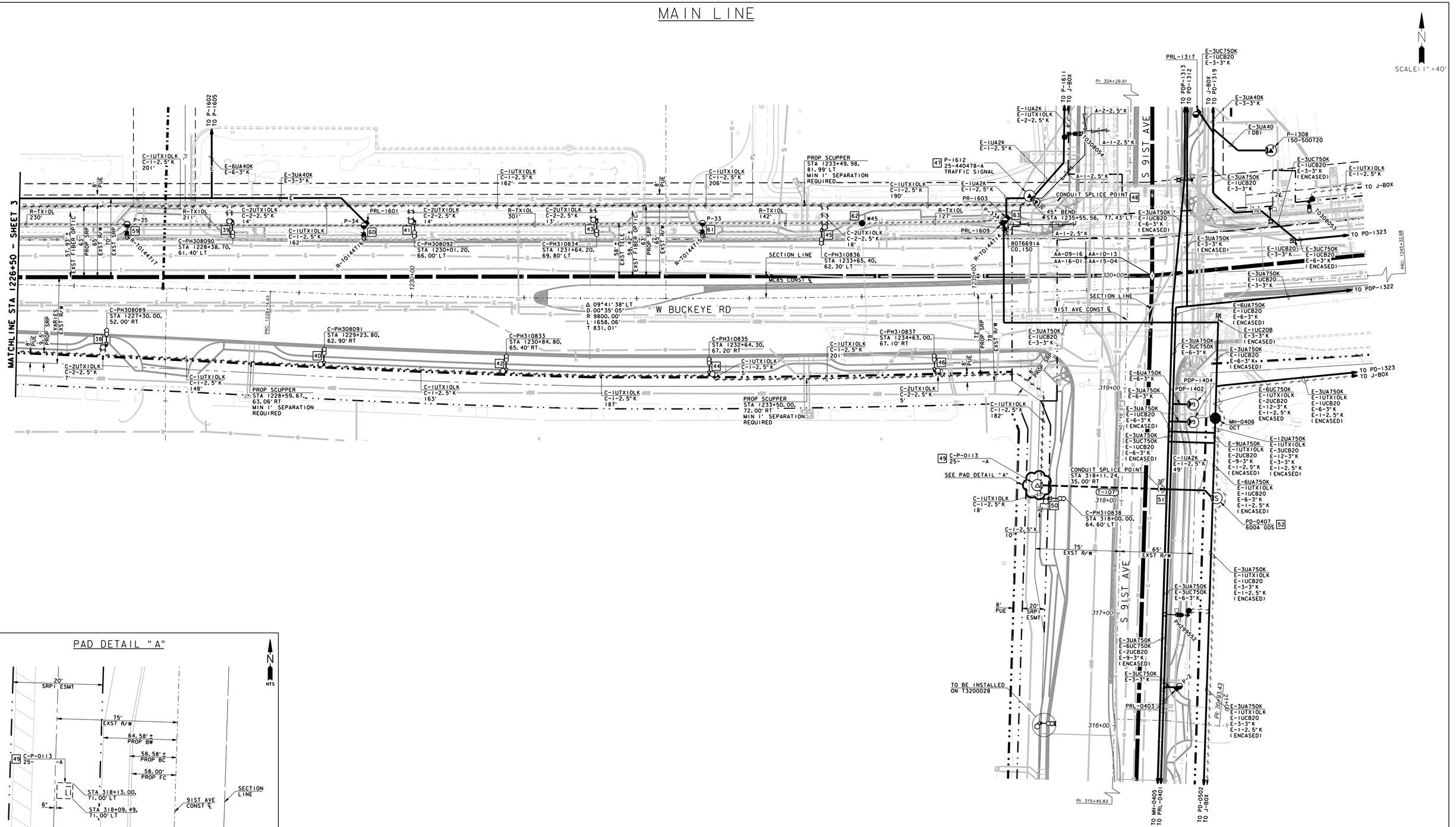
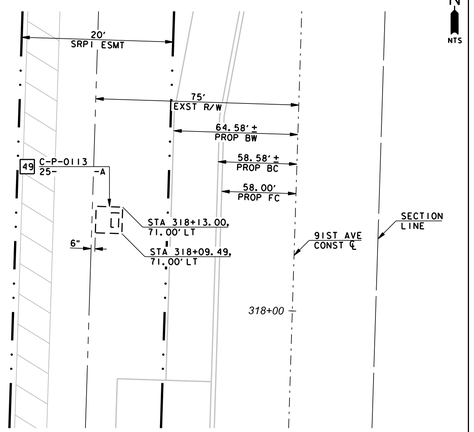
ADLAWREN • 13-JUL-2022 09:12 • S:/92xxx Job Order Files/92515 JobOrders/Customer Improvements JobOrders/T3212269 CUS BUCKEYE RD 91ST AVE TO 86TH AVE/T3229089_CUS_UW_BUCKEYE_RD_91ST_AVE_TO_95TH_AVE_SILT/T3229089.dgn

MAIN LINE



PAD DETAIL "A"



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CONSTRUCTION CONSULTANT:
JOE CORDEIRO
MOBILE:(602)236-1113

NATURAL GAS YES [x] NO [ ]

JOB NAME CUS UW BUCKEYE RD 91ST AVE TO 95TH AVE ST/LT
ADDRESS/LOCATION BUCKEYE RD: 91ST AVE TO 86TH AVE
CONTACT PHONE
BILLING ACCT NO.
FIS JO MAP 1/4 SE S15 TIN RIE
40/ACRE AA-16-03 COORDS 2 1/2 E - 4N
AMP WO T3229089 AMP VERSION
COST CENTER 22660
ROUTING CODE DD1.5CS1.E+12

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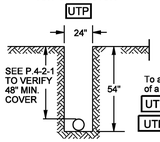
SHEET NUMBER 4 OF 5

NOT FOR CONSTRUCTION

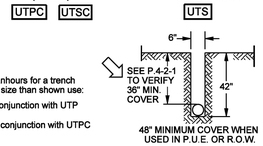
ADLAWREN • 13-JUL-2022 09:12 • S:/82xxx Job Order Files/82515 JobOrders/Customer Improvements JobOrders/T3212269 CUS BUCKEYE RD 91TH AVE TO 86TH AVE/T3229089 CUS UW BUCKEYE RD 91ST AVE TO 95TH AVE STL/T3229089.dgn

ADLAWREN • 13-JUL-2022 09:13 • S:/82xxx Job Order Files/82515 JobDrders/Customer Improvements JobDrders/13212669 CUS BUCKEYE RD 91ST AVE TO 86TH AVE/13229089 CUS UW BUCKEYE RD 91ST AVE TO 95TH AVE STL/13229089.dgn

TRENCH UNIVERSAL ANY CONDUCTOR



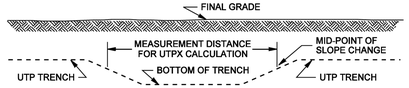
TRENCH WITH CONFLICTS OR DIFFICULTIES (NOTE 9)



STANDARD SECONDARY/SERVICE OR STREET LIGHT WHEN OUTSIDE P.U.E. OR R.O.W.

NOTES:

1. Trench depths and conduit cover are to be measured from final grade stakes. All trench depths or conduit cover requirements specified on a job drawing shall be followed.
2. These trench codes provide man-hours for excavation only and do not provide for trench backfill.
3. The total trench footage length will be shown in the grid as standard trench, either UTP for primary or UTS for secondary, street light, or service. When trench is provided by customer, this is the only coding required on the job grid.
4. Non standard trench locations will be identified on the job order sketch with required width and depth dimensions given.
5. When trenching is provided by SRP, non standard trenches shall have 2 compatible unit codes in the grid, UTP plus the UTPX, to adjust the time for digging.
6. When specified depth cannot be obtained because of solid rock, a minimum earth cover of 24" is acceptable, provided a minimum 2" encasement of concrete surrounds the conduit.
7. Use example shown to figure length of UTPX trench, unless the entire trench is non standard.

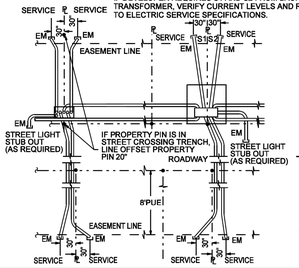


UTPX quantity = the factor from the UT-X Chart multiplied by the trench footage length which is non-standard, as calculated in item 4. If multiple calculations for non-standard trench are made, add all totals together, only one entry is needed for UTPX quantity in the grid.

8. If secondary/service or street light must be placed in P.U.E. or road R.O.W.,use UTP trench dimensions and enter UTS as the compatible unit.
9. Provides 1.5 times regular man-hours.
10. Trench bottom to be smooth and free of sharp rocks. Where excavation is in rock, bottom of trench to have protective layer of clean, level, tamped backfill or sand.

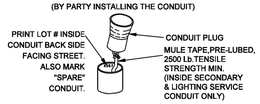
Underground Distribution Construction Standards	REV. CORRECTED TRENCH DEPTH TYPO.	Page 1 of 2
PROPRIETARY MATERIAL	TRENCHING EXCAVATION CODES	ISSUE DATE: 01/15/87 REV. DATE: 03/06/13 APPROVAL: B.PRIEST
	6-11-1	8513E135.DGN

IF DEVELOPER REQUIRES S1 AND S2 FROM BACK OF TRANSFORMER, VERIFY CURRENT LEVELS AND REFER TO ELECTRIC SERVICE SPECIFICATIONS.



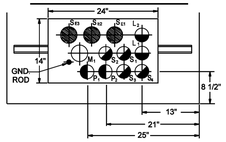
SECONDARY/SERVICE CONDUIT MARKING & MULE TAPE

(BY PARTY INSTALLING THE CONDUIT)



(MULE TAPE IN SERVICE CONDUIT ONLY)

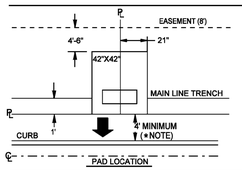
CONDUIT ARRANGEMENT IN PAD

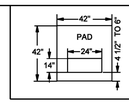


THE MAX. NO. OF SERVICE & SECONDARY CONDUITS IS 8.
S - SECONDARY CONDUIT 3"
L - LIGHT CONDUIT 2-1/2"
S - SERVICE CONDUIT 2-1/2"
P - PRIMARY CONDUIT 2-1/2"
M1 - M1 MAY BE A SERVICE OR A SECONDARY.
2 1/2" O.D. = 2.875"
3" O.D. = 3.5"

NOTES

1. CONNECT GROUND ROD TO TRANSFORMER GROUND LUG WITH #4 CU WIRE.
2. TOP OF GROUND ROD AND ALL CONDUITS ARE TO BE 5 INCHES ABOVE FINAL GRADE FOR ALL NEW TRANSFORMER INSTALLATIONS.
3. ALL REQUIRED CONDUITS SHALL BE INSTALLED PRIOR TO BACKFILL.
4. INSTALL PLUGS IN ALL CONDUIT STUB-UPS. DO NOT GLUE PLUGS.
5. IF ONLY ONE SECONDARY IS TO BE INSTALLED, PLACE IT IN POSITION SE2.
6. IF NO SECONDARY NEEDED, SE1, SE2 & SE3 MAY BE USED FOR SERVICES 6, 7 & 8.



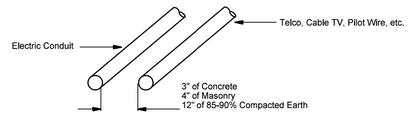


* NOTE: FOUR FOOT MINIMUM FROM HOUSE SIDE OF CURB TO PAD IS REQUIRED FOR SAFE OPERATION AND MAY NOT BE REDUCED BY USE OF A GUARD POST.

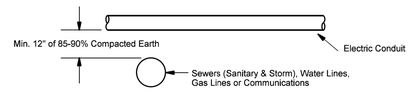
Underground Distribution Construction Standards	REV. REFORMAT.	PAGE 3 OF 6
PROPRIETARY MATERIAL	TRANSFORMERS - SINGLE PHASE RESIDENTIAL TRANSFORMER PAD CONDUIT STUB-UP DETAIL WITH ABOVE GROUND JUNCTION BOXES (FRONT OF PUE, PREFERRED)	ISSUE DATE: 09/24/03 REV. DATE: 09/26/12 APPROVAL:B.PRIEST
	9-11-3	8513E511.DGN

NOTES

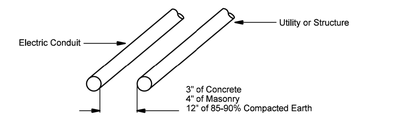
1. Minimum vertical or horizontal separations between electric conduit systems and communications conduit systems (NESC Rule 320B2):



2. Minimum clearance between an electric conduit system and other existing underground structures or utilities (Note 4):

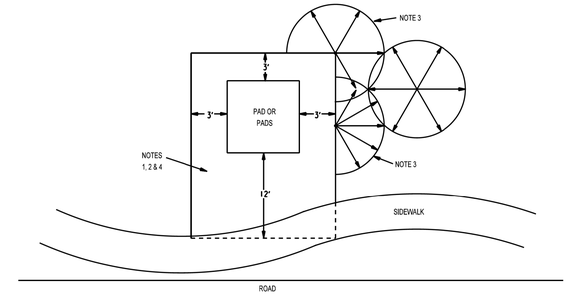


3. Horizontal clearance for parallel structures (NESC Rule 320B):



4. An alternative to 12" of 85-90% compacted earth is a rigid support for the upper structure to prevent it from transferring any direct load to lower structure.
5. Conduit should be installed as far as practical from a water main to protect it from being undermined if the main breaks.
6. Municipals and other utilities may have additional requirements.

Electric Service Specifications		
PROPRIETARY MATERIAL	CLEARANCES UNDERGROUND CONDUIT	ISSUE DATE: 04/15/86 REV. DATE: 10/25/12 APPROVAL: W.LARAMIE
	5-3	8509E149.DGN



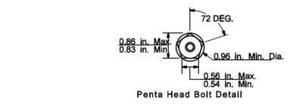
NOTES

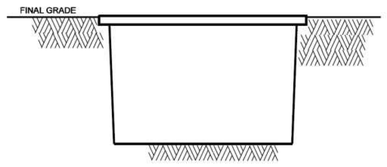
1. Easement grantor shall maintain a clear area that extends 3' from and around all edges of all transformer pads and other equipment pads and a clear operational area that extends 12' immediately in front of all transformer and other equipment openings. Do not place obstructions, trees, shrubs, fixtures or permanent structures within aforementioned areas. Easement documents may supersede these requirements.
2. This same clear area shall be dry landscaped.
3. Direct sprinkler heads away from pad-mounted equipment, as shown above. Sprinkler heads shall not spray on pad-mounted equipment or dry landscaped area around equipment.
4. Dry landscape surface may be native soil, concrete, asphalt pavement or crushed granite or gravel with a maximum particle size no greater than 1".
5. A border curb is required if SRP installs the landscape.

Electric Service Specifications		
PROPRIETARY MATERIAL	CLEARANCES DRY LANDSCAPE CONTROLLED AREA DETAIL	ISSUE DATE: 03/02/01 REV. DATE: 10/25/12 APPROVAL: W.LARAMIE
	5-10	8509E133.DGN

J-BOX 15" X 21" X 12"

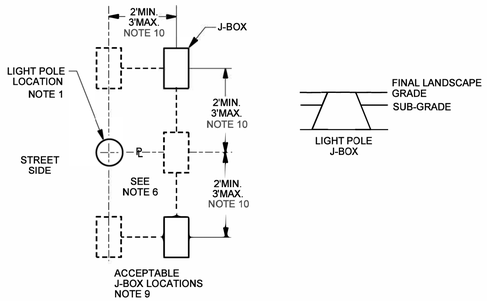
COMPOSOLITE FLUSH MOUNTED, BOLT-ON





SRP Material Item No. 5034692	
Description	
Noun	Box
Adjective	Junction
Size	15" x 21" x 12", with large head Penta bolts
Style	Word "electric" on cover
Special Ref.	Box to be polymer concrete material with polymer concrete bolt down (non-conductive cover).
Approved Suppliers	**Part Number**
Armorcast Products	A6001429A
Carson & Associates	HLW1118-12 BOX, HLW1118-PO LID
CDR Systems	PA40-1015-12
Hubbel-Lenoir	PC1118B513 BOX, PC1118C504-17/UH0390AA cover with electric
Newbasis	PCA111812-00043

Electric Service Specifications	DGN 8513E543	
PROPRIETARY MATERIAL	CONTRACTOR-SUPPLIED MATERIAL J-BOX 15" X 21" X 12"	ISSUE DATE: 06/02/04 REV. DATE: 11/25/19 APPROVAL: M. Dyer
	11-3	ESS11-03.doc



NOTES

1. CUSTOMER TO STAKE LIGHT LOCATION PER APPROVED MUNICIPAL PLAN.
2. GRADE STAKE TO BE WITHIN 2 FEET OF J-BOX LOCATION. CUSTOMER TO STAKE J-BOX LOCATION. AVOID CONFLICT WITH SIDEWALK, LANDSCAPING, ETC.
3. GROUND ROD TO BE INSTALLED FOR EACH STREET LIGHT LOCATION PER STANDARDS ON PAGE 9-1-1.
4. SEE SONOTUBE INSTALLATION DETAIL, PAGE 9-1-1, IF APPLICABLE.
5. #6 BARE COPPER GROUND WIRE TO BE ATTACHED FROM GROUNDING LUG ON STREET LIGHT POLE TO GROUND ROD IN J-BOX.
6. J-BOX MAY BE POSITIONED BEHIND THE POLE, EXCEPT IN THE CITIES OF CHANDLER AND GILBERT.
7. IF POLE IS IN PROXIMITY OF METALLIC APPARATUS SEE CONSTRUCTION STANDARDS SECTION, LIGHT POLES IN PROXIMITY OF METALLIC APPARATUS, BONDING. ALSO SEE SECTION 3 "ELECTRIC SERVICE REQUIREMENTS NOTE 6".
8. FOR PEDESTAL MOUNTED POLES THE J-BOX IS LOCATED ABOVE THE WATER LINE. SEE POLE PLACEMENT, WATER RETENTION BASIN.
9. SOME CLEARANCE RESTRICTIONS APPLY TO J-BOX LOCATIONS NEAR TRANSFORMERS, SEE DESIGN AMD MISCELLANEOUS, CLEAR AREA FOR CUSTOMER EQUIPMENT, ADJACENT TO TRANSFORMER.
10. FOR MUNICIPAL OWNED STREETLIGHT RELOCATIONS, THE DISTANCE FROM J-BOX TO STREETLIGHT MAY BE INCREASED 15'.

Outdoor Lighting Standards	REV. ADDED NOTE 10	PAGE X OF X
PROPRIETARY MATERIAL	DESIGN AND MISCELLANEOUS STREETLIGHT POLE J-BOX LOCATION DETAILS	ISSUE DATE: 11/19/01 REV. DATE: 5/18/20 APPROVAL: J. Luera
	3-11-1	8518E90.DGN

SID 103
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT)
GENERAL NOTES FOR RIGHT-OF-WAY PERMITS

1. All work shall conform to the revised edition of the Uniform Standard Specifications and Details for Public Works Construction published by the Maricopa Association of Governments (MAG) as authorized and modified by the most current MCDOT supplement to the MAG Uniform Standard Specifications and Details and non-conflicting project Special Provisions. All work must also comply with Resolution 2001-01 Maricopa County Resolution for Permits to Work in Dedicated Right-of-way and Resolution 2001-02 Maricopa County Resolution for Street Improvements, Installation of Utilities and Traffic Control. Any exceptions must receive explicit approval from MCDOT and shall be identified on the plans as having explicit approval from MCDOT. All clear zone hazards shall be mitigated in a manor approved by MCDOT at no cost to the County.
2. The engineering designs on these plans are only approved by MCDOT in concept and not in detail. Construction quantities on these plans are not verified by MCDOT. Approval of these plans are for permit purposes only and shall not prevent MCDOT from requiring correction of errors in the plans where such errors are subsequently found to be in violation of any law, ordinance, health, safety, the MCDOT Roadway Design Manual, or other design issues.
3. An approved set of plans shall be on the site during construction and available to MCDOT and other inspectors.
4. All box culverts constructed in the public Right-Of-Way shall comply with Arizona Department of Transportation (ADOT) latest design specifications and standards. Minimum clear height of box culvert shall be 4 feet.
5. Contractor to obtain MCDOT permits prior to construction within County Right-Of-Way, and all necessary permits from other agencies and from local governments for work within their jurisdiction.
6. Contractor shall notify the MCDOT Inspection Dept. at least 24 hours in advance of any construction at **(602) 506-8606**.
7. Contractor performing construction or excavating operations is responsible for locating and relocating all utilities in conflict at no expense to Maricopa County. The Contractor shall contact "Blue Stake" at **(602) 263-1100** prior to beginning construction.
8. The Contractor is responsible for obtaining any required permits for earth moving from Maricopa County Air Quality Department's Dust Compliance Division **(602) 506-6010** prior to conducting excavation operations. A copy of the permit and dust control plan shall be submitted to the County Engineer prior to commencement of any earthmoving activities.
9. Prior to conducting excavation operations, the Contractor shall obtain from the Arizona State Historical Preservation Officer **(602) 542-4009**, recommendations regarding the need for cultural resources (archaeological) clearance. All discoveries of human remains, cultural artifacts, or paleontological remains shall be reported to the Arizona State Museum and MCDOT. Upon discovery, Contractor shall cease operations in the vicinity of the find and protect the discovery area from further disturbance until the find can be professionally investigated by the Arizona State Museum and MCDOT.
10. Except under emergency conditions, roads shall not be closed for construction activity unless prior approval is obtained from the MCDOT Transportation Director or his representative.
11. Prior to moving or destroying protected native plant species, the Contractor shall file a formal Notice of Intent with the Arizona Department of Agriculture Native Plants **(602) 542-6408**.
12. Prior to installation of curb, gutter, sidewalk, base course and wearing surface, submit soil test(s) of subgrade and revised pavement design/calculations to MCDOT for review and approval. If subgrade stabilization is required, the area stabilized shall be from back of sidewalk to back of sidewalk and match the stabilization depth of the pavement structure.
13. Asphalt mix design shall be submitted to MCDOT a minimum of 48 hours prior to placing any asphalt courses. (Trench work excluded.) All paved turnouts shall have the same asphalt and base requirements as the adjacent roadway unless noted otherwise.
14. All compaction and backfill within County Right-Of-Way shall conform to the MCDOT Supplement to MAG Specification section 601. Backfill under existing pavement, curb and gutter, roadway shoulders, and unpaved roadways shall consist of one-half (1/2) or one sack CLSM. Unpaved roadway areas include the travelled way plus five feet beyond the travelled way.
15. All structures, such as manholes, valve box & covers, and monitoring wells must be marked with at least two reflective yellow flex posts when structures are located outside the traveled way and within the Right-Of-Way. (Applies only when there is no curb.)
16. Pavement widening and pavement replacement shall conform to requirements of specification section 336. Pavement cuts shall not be located within a lane wheel path. The lane wheel path is the entire lane width except the area within one foot of a lane line stripe and except the center two feet of the travel lane.
17. All existing pavement markings, traffic signs and signal equipment that need to be removed, replaced, relocated or repaired because of contractor's work will be done by the contractor at his expense. All salvaged signs shall be delivered to the Traffic Ops building at 2909 W. Durange St. Arrangements can be made for delivery by calling **(602) 506-8662.** All new street name signs shall be provided and installed by permittee at no expense to Maricopa County.
18. Pavement marking, signing and signal work will be inspected and shall meet County Standards before release of bond.
19. The contractor shall restore all disturbed areas within the Right-Of-Way to a condition equal to or better than prior existing conditions per MAG 107.9. Disposal of all waste material will be the responsibility of the Contractor.

Q:\FORMS\SID LETTERS (BLANK)\SID103 MCDOT General Notes.doc SID 103 rev 06/12/2013

CONTACTS:
DESIGN CONSULTANT:
ANTHONY LAWRENCE
OFFICE:(602)236-4921
MOBILE:(602)748-6687
PROJECT LEADER:
JASON HUGHES
MOBILE:(602)236-0886
INSPECTIONS:
OFFICE:(602)236-0436
CONSTRUCTION CONSULTANT:
JOE CORDEIRO
MOBILE:(602)236-1113

NATURAL GAS YES [x] NO [ ]

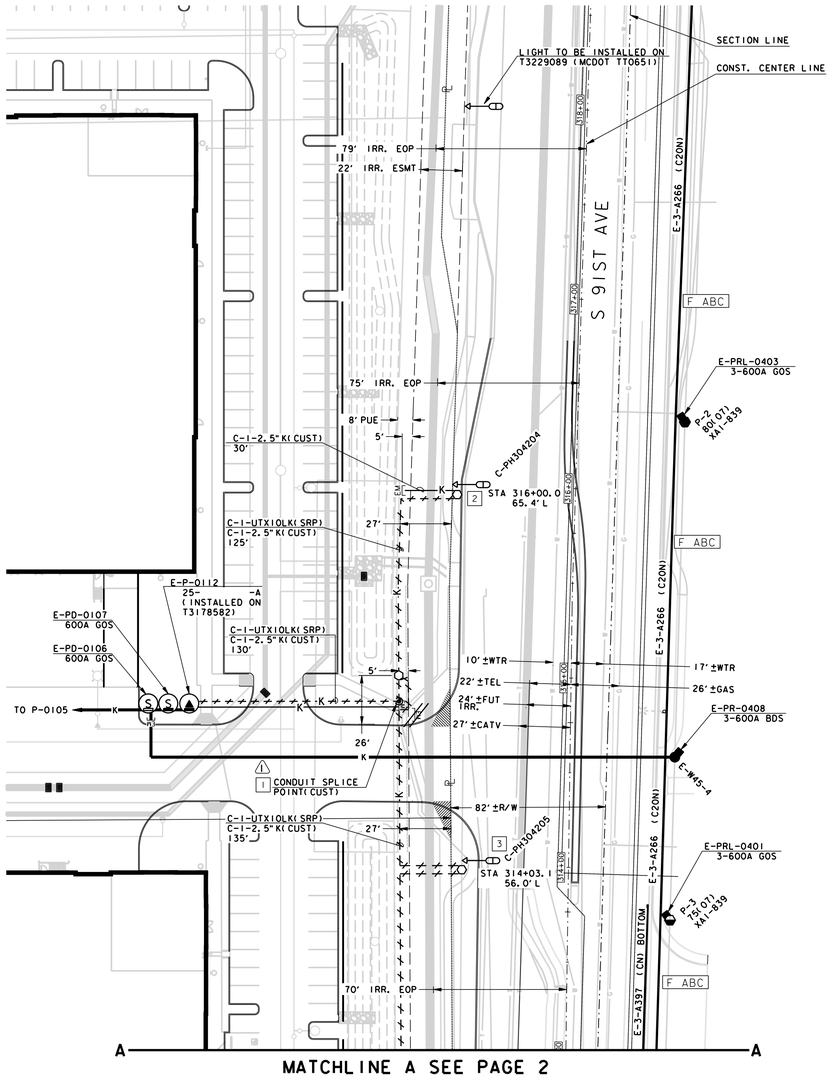
JOB NAME CUS UW BUCKEYE RD 91ST AVE TO 95TH AVE ST/LT
ADDRESS/LOCATION BUCKEYE RD: 91ST AVE TO 86TH AVE
CONTACT PHONE
BILLING ACCT NO.
FIS JO MAP 1/4 SE S15 TIN RIE
40/ACRE AA-16-03 COORDS 2 1/2 E - 4N
AMP WO T3229089 AMP VERSION
COST CENTER 22660
ROUTING CODE DDT.5CST.E+12

Contact Arizona 811 at least two full working days before you begin excavation. Arizona811.com Call 811 or click Arizona811.com

SHEET NUMBER 5 OF 5

NOT FOR CONSTRUCTION

MAINLINE



MATCHLINE A SEE PAGE 2

N

SCALE: 1" = 40'

LIGHTING RESPONSIBILITIES:

STREET LIGHT LOCATIONS ARE SHOWN FOR REFERENCE ONLY.
THE DEVELOPER IS RESPONSIBLE FOR STAKING STREET LIGHT LOCATIONS PER THE APPROVED STREET LIGHT PLANS.

-STREET LIGHTING PER CITY OF PHOENIX
-LIGHTS PROVIDED BY CUSTOMER
-LIGHTS INSTALLED BY CUSTOMER
-LIGHTS CONNECTED BY CUSTOMER
-LIGHT NUMBERS DONE BY SRP

CITY OF PHOENIX GENERAL NOTES FOR UTILITY CONSTRUCTION

1. All utility construction shall conform to the latest Maricopa Association of Governments (MAG) Uniform Standard Specifications and Details for Public Works Construction, and the City of Phoenix Supplements to MAG.
2. All work performed in the City of Phoenix rights-of-way shall be governed by the latest edition of the City of Phoenix Traffic Barricade Manual.
3. This set of plans was reviewed by the City of Phoenix Utility Coordination Section in compliance with City requirements. However, such review shall not prevent the City from requiring correction of errors found to be in violation of any law, ordinance or City of Phoenix requirement for utility construction in the rights-of-way.
4. The contractor shall have a copy of the approved/stamped construction plans and approved traffic control plan at the project site at all times.
5. All utilities crossing streets must be bored or punched unless permission to open cut has been given in writing by the Street Transportation Director.
6. Before starting any work on a major or collector street, the utility company shall schedule a preconstruction meeting with the City of Phoenix Street Transportation Department's Utility Inspection Section.
7. The City of Phoenix does not warrant any quantities shown on these plans.
8. Utility companies shall coordinate alley work with the City of Phoenix Public Works Department's Solid Waste Division.
9. The utility company shall contact the City of Phoenix Street Transportation Department's Utility Inspection Section a minimum of 48 hours in advance of starting work, giving location and permit number in order to schedule inspections.
10. All work requiring asphalt replacement, concrete replacement, or resurfacing alleys in the City of Phoenix right-of-way will require a final inspection with the utility company representative at time of completion.
11. Maintain a minimum six (6) feet horizontal separation and one (1) foot vertical separation from all water and sewer mains, all measurements outside to outside.
12. City of Phoenix Utility Inspection Section reserves the right, at their discretion, to request a land survey of the proposed improvements, running line and right-of-way per MAG Section 601.2.3 and 608.4.3.

PHOENIX PERMIT BOXES

CITY OF PHOENIX

0000000
/ /2020

UTILITY PERMIT NO.
CITY OF PHOENIX

DEVELOPER: WILLMENG

CONTACT: THOMAS FYFFE
PHONE NO.: 623-236-6860

DEVELOPER'S DSD NUMBER: 1500157

TOTAL TRENCH FOOTAGE: 1380 '

TOTAL TRENCH FOOTAGE WITHIN CITY RIGHT OF WAY: 0 '

INFORMATION BOX

NOTE:
-CUSTOMER TO MAINTAIN A MINIMUM OF 6' HORIZONTAL CLEARANCE FROM ELECTRICAL TRENCH TO WATER AND SEWER MAINS.
-ALSO A MINIMUM OF 3' HORIZONTAL CLEARANCE FROM ELECTRICAL TRENCH TO WATER AND SEWER SERVICES.
-MAINTAIN A MINIMUM 12" VERTICAL CLEARANCE FROM ELECTRICAL CONDUITS TO ANY WATER OR SEWER FACILITIES.

D13

EASEMENTS

NOTE:
THIS JOB MAY INVOLVE ACQUIRING EASEMENTS FROM MORE THAN ONE PROPERTY OWNER. SRP ADVISES NO TRENCHING BE DONE UNTIL ALL SRP EASEMENTS HAVE BEEN SECURED. SHOULD THE CUSTOMER TRENCH PRIOR TO SRP EASEMENTS BEING SECURED, IT IS AT THE CUSTOMER'S OWN RISK AND SRP DOES NOT ASSUME ANY COST OR LIABILITY INVOLVED.

CONDUIT AND MULE TAPE SPECS

1. CONDUIT WILL BE PVC DB120 RATED 90°C CABLE MEETING THE REQUIREMENTS OF ASTM F512
2. CUSTOMER SHALL PROVIDE & INSTALL 2500 LB TENSILE STRENGTH 5/8" PRE-LUBRICATED MULE TAPE FOR ALL SERVICE CONDUITS

NOTICE

THIS JOB ORDER WORKS WITH OTHER JOBS.

O. H. =
SER. =
U. G. = T3178582
U. G. =
U. G. =
U. G. =
U. G. =

CONTACTS:

DESIGN CONSULTANT:
LUZ JOHNSON
OFFICE: (602)236-4809
MOBILE: (602)332-0045

PROJECT LEADER:
WES SHREVE
MOBILE: (602)316-3773

INSPECTIONS:
OFFICE: (602)236-0676

CONSTRUCTION CONSULTANT:
TONY CROCKETT
MOBILE: (602)448-1568

PROJECT NOTES

SRP ELECTRIC SERVICE SPECIFICATIONS ARE AVAILABLE ON-LINE AT:
HTTP://WWW.SRPNET.COM/ELECTRIC/BUSINESS/SPECS

1. CUSTOMER IS RESPONSIBLE FOR:
   a. PROVIDING SRP VEHICLES WITH A MINIMUM 12' WIDE AND 20' HIGH PERMANENT TRUCK ACCESS TO ALL SRP EQUIPMENT. ANY SES OR EXTERIOR METER ROOM ENTRANCE. EACH SERVICE ENTRANCE PULL SECTION SHALL OPEN DIRECTLY TOWARDS THE EXTERIOR METER ROOM ENTRANCE. THIS PROVIDES EQUIPMENT ACCESS FOR CABLE INSTALLATION. WITH A MINIMUM WIDTH OF 12'. REMOVABLE SCREEN WALLS. PANELS. OR DOORS MAY BE USED AS AN ARCHITECTURAL FEATURE. PROVIDED THE ACCESS ROUTE COMPLIES TO SRP VEHICLE ACCESS REQUIREMENTS.
   b. ALL CONDUIT (PVC. DB120. RATED FOR 90 DEGREES C CABLE. ASTM F512 WITH ALL ELBOWS BEING SCHEDULE 40 36" RADIUS). TRENCH. BACKFILL. COMPACTION. (UNLESS OTHERWISE SPECIFIED. ALL FILL BELOW AND AROUND ELECTRIC UTILITY FIXTURE FOUNDATION PADS SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY (AT OR NEAR OPTIMUM MOISTURE CONTENT) IN ACCORDANCE WITH ASTM D698. 1/2 CONTROLLED LOW STRENGTH MATERIAL BACKFILL MAY BE PLACED IN LIEU OF COMPACTED BACKFILL) AND MAINTENANCE OF TRENCH AND CONDUIT UNTIL WIRE IS PULLED. CONTACT SRP AND SCHEDULE A HOT ID AFTER LOCATING AND EXPOSING EXISTING STUBBED CONDUIT.
   c. INSTALLATION OF 3 PHASE TRANSFORMER PAD(S). TEMPLATES(S) AND GROUND ROD(S).
   d. STAMPED AND REGISTERED PROPERTY PINS AND FINAL GRADE STAKES FOR PAD AND TRENCH LOCATIONS.
   e. REVIEWING AND SIGNING OFF ON MATERIALS DELIVERED TO THE JOB SITE.
   f. ALL SURFACE RESTORATIONS AND LANDSCAPE REPAIRS.
2. SRP'S POINT OF DELIVERY TO BE: ☐ S.E.S.. ☒ JUNCTION BOX. ☐ TRANSFORMER.
3. SRP TO INSPECT THE FOLLOWING: TRENCHING. CONDUIT INSTALLATION. MANDREL (IF REQUIRED). EQUIPMENT PAD(S). COMPACTION AND SERVICE ENTRANCE SECTION.
4. METERING PER EUSERC. SRP SPECIFICATIONS AND MUNICIPAL CODES. SUBMIT ONE ELECTRONIC COPY OF SHOP DRAWINGS FOR ALL PROPOSED 400AMP OR LARGER SERVICE ENTRANCE SECTION. DOUBLE RESIDENTIAL METER PEDESTALS. AND COMMERCIAL SAFETY SOCKET PEDESTALS TO COMMERCIAL NEW BUSINESS FOR APPROVAL PRIOR TO PURCHASE AND/OR MANUFACTURING. SUCH DRAWINGS SHALL INDICATE THE PROJECT AND CUSTOMER NAME. SRP JOB NUMBER. JOB ADDRESS. CONTRACTORS NAME AND PHONE NUMBERS. SUBMIT TO: SHOPDRAW@SRPNET.COM
5. FOR THAT PORTION OF THE FACILITY LOCATED WITHIN PUBLIC UTILITY EASEMENTS. THIS SUBMITTAL IS MADE FOR NOTIFICATION PURPOSES ONLY.

GRAPHIC SYMBOLS

(SHADED SYMBOL INDICATES EXISTING FACILITY)

E-ELECTRIC C-COMMUNICATION W-WATER G-GAS SD-STORM DRAIN S-SEWER

"E" WITHOUT CIRCLE INDICATES EXISTING TRENCH
"E" WITH CIRCLE INDICATES PROPOSED TRENCH

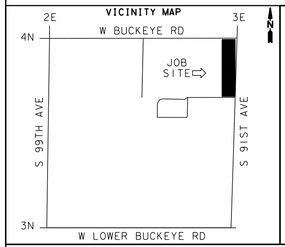
TYPICAL SRP ABBREVIATIONS

C = CONSTRUCT
R = REMOVE
T = TRANSFER
A = ABANDON
F/SW = FRONT OF SIDEWALK
B/SW = BACK OF SIDEWALK
F/C = FRONT OF CURB
B/C = BACK OF CURB
E/P = EDGE OF PAVEMENT
L/G = LIP OF GUTTER
R/W = RIGHT OF WAY

- PROPOSED SINGLE-PHASE TRANSFORMER
- PROPOSED THREE-PHASE TRANSFORMER
- PROPOSED FUSING ENCLOSURE
- PROPOSED SWITCHING ENCLOSURE
- PROPOSED 1 PHASE PULLING ENCLOSURE
- PROPOSED 3 PHASE / FEEDER PULLING ENCLOSURE
- PROPOSED 4/0 PRIMARY TAP ENCLOSURE
- PROPOSED CAPACITOR BANK
- FOR MOST PRIMARY DEVICES OTHER THAN TRANSFORMERS, NO BAR ABOVE THE LETTER INDICATES AN EXIST. FACILITY
- NO BAR IN PAD INDICATES FACILITY IS EXISTING
- BAR INDICATES FRONT OF DEVICE
- A SHADED BAR INDICATES FACILITY IS EXISTING

- UNDERGROUND STREETLIGHT CONDUCTOR
- UNDERGROUND SERVICE CONDUCTOR
- UNDERGROUND SECONDARY CONDUCTOR
- PROPOSED UNDERGROUND TRENCH/BORE
- EXISTING UNDERGROUND TRENCH/BORE
- INDICATES ABANDONMENT
- SERVICE ENTRANCE SECTION (S.E.S.)
- PROPOSED MANHOLE
- PROPOSED PULL BOX
- PROPOSED SPLICE POINT
- PROPOSED STREET LIGHT
- PROPOSED PRIVATE LIGHT (STAKED BY CUSTOMER)
- PROPOSED POLE AND RISER
- DOUBLE SLASH LINES INDICATE REMOVAL
- ELECTRONIC MARKER
- MATCH POINTS FOR MULTIPLE SHEETS OF DRAWING
- CONDUIT
- PROPOSED FLUSH-MOUNTED J-BOX
- PROPOSED ABOVE-GROUND J-BOX
- PROPOSED WOOD POLE
- WORK POINT BOX

VICINITY MAP



FIELD INSTALLATION STAMP

SURVEY AND PERMIT INFORMATION

☒ SRP SURVEY TO STAKE FOR LOCATION AND TIE FOR EASEMENTS. CUSTOMER CONTROL POINTS REQUIRED: YES ☒ NO ☐
☐ CUSTOMER'S SURVEY TO STAKE FOR LOCATION/CONSTRUCTION AND TIE FOR EASEMENTS. CUSTOMER'S SURVEYOR MUST ATTEND PRE-CON MEETING.
☐ SRP SURVEY TO STAKE FOR LOCATION, NO EASEMENT REQUIRED.
☐ 3RD PARTY EASEMENT REQUIRED.
☐ NO SURVEY REQUIRED.
☒ PERMIT REQUIRED: CITY OF PHOENIX COUNTY
OTHER TOLLESON PERMIT NO.
☐ NO PERMIT REQ.

REV	REVISED BY	DATE	REVISION DESCRIPTION
4			
3			
2	RXCARDWE	10/25/21	RELOCATED ALL LIGHTS PER MCDOT PROJECT PLANS TT065!
1	RXCARDWE	06/25/20	ORDERED NEW CUSTOMER CONSTRUCTION PRINTS CHANGED STLT STUB OUT TO PRIMARY CONDUIT AT PT. 1
0	RXCARDWE	01/16/20	JOB CREATED

NATURAL GAS YES ☐ NO ☒

JOB NAME LOGIC PARK - STLT
ADDRESS/LOCATION SWC 91ST AVE & BUCKEYE RD
CONTACT THOMAS FYFFE PHONE 623-236-6860
BILLING ACCT NO.
FIS JO MAP 1/4 NE S 16 T 1N R 1E
40/ACRE AA-16-01 COORDS 2 13/16N - 3 15/16N
AMP WO T3200028 AMP VERSION
COST CENTER 22640
ROUTING CODE DDY+3

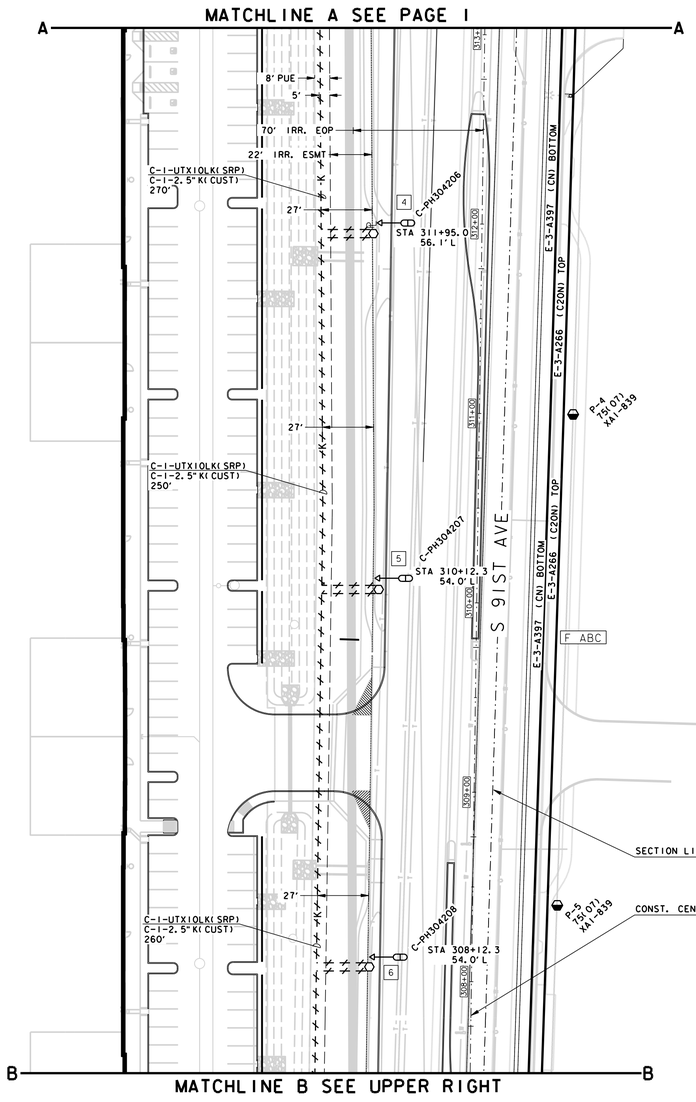
Contact Arizona 811 at least two full working days before you begin excavation. Arizona811.com Call 811 or click Arizona811.com

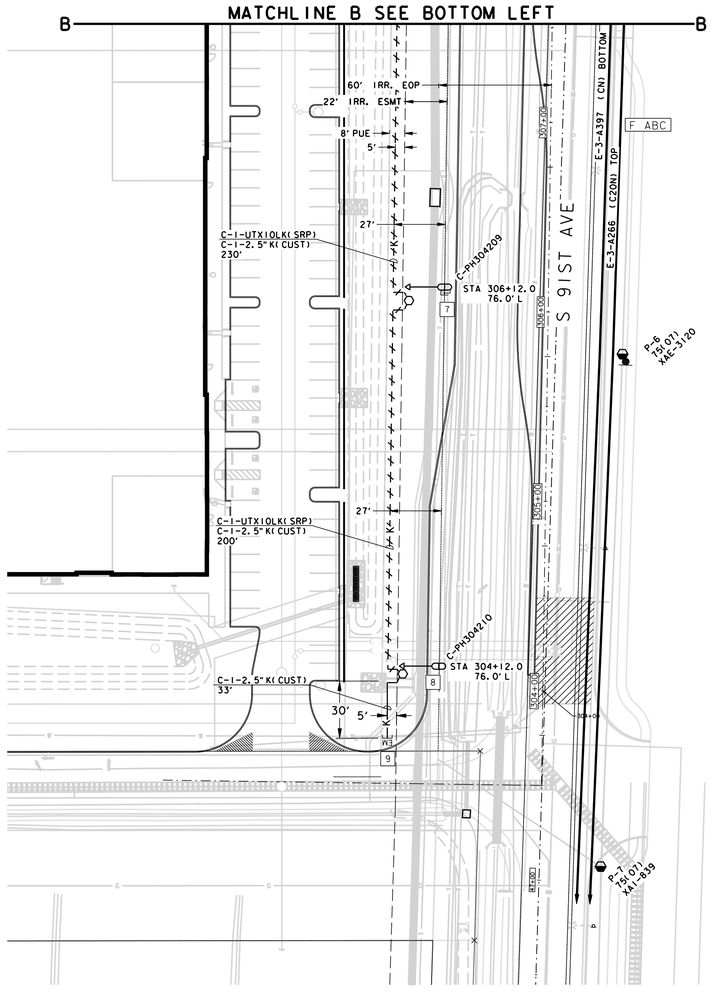
SHEET NUMBER 1 OF 4

MAINLINE

N

SCALE: 1" = 40'





CONTACTS:

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INSPECTIONS:
OFFICE: (602) 236-0676

CONSTRUCTION CONSULTANT:
TONY CROCKETT
MOBILE: (602) 448-1568

NATURAL GAS YES ☐ NO ☒

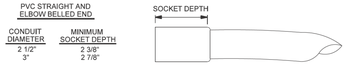
JOB NAME LOGIC PARK - STLT
ADDRESS/LOCATION SWC 91ST AVE & BUCKEYE RD
CONTACT THOMAS FYFFE PHONE 623-236-6860
BILLING ACCT NO.
FIS JO
MAP 1/4 NE S 16 T 1N R 1E
40/ACRE AA-16-01
COORDS 2 13/16N - 3 15/16N
AMP WO T3200028
AMP VERSION
COST CENTER 22640
ROUTING CODE DDY+3

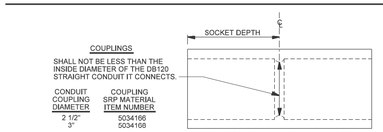
Contact Arizona 811 at least two full working days before you begin excavation. Arizona811 Call 811 or click Arizona811.com

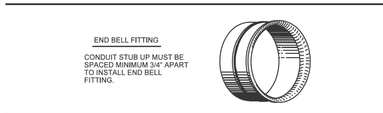
SRP

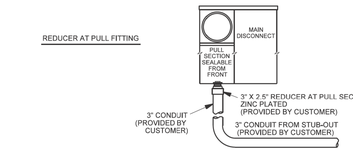
SHEET NUMBER 2 OF 4

22x34frm, JD2 01-23-2019

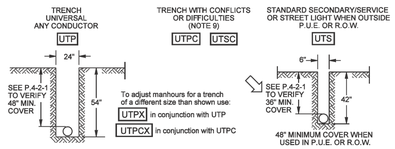






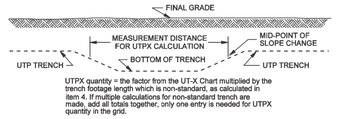


Electric Service Specifications		
PROPRIETARY MATERIAL	TRENCHING AND CONDUIT SIZES & SPECIFICATIONS BELLED ENDS AND FITTINGS	ISSUE DATE: 03/13/01 REV. DATE: 05/22/13 APPROVAL: W.LARAMIE
	6-3	8509E127.DGN



NOTES:

1. Trench depths and conduit cover are to be measured from final grade stakes. All trench depths or conduit cover requirements specified on a job drawing shall be followed.
2. These trench codes provide man-hours for excavation only and do not provide for trench backfill.
3. The total trench footage length will be shown in the grid as standard trench, either UTP for primary or UTS for secondary, street light, or service. When trench is provided by customer, this is the only coding required on the job grid.
4. Non standard trench locations will be identified on the job order sketch with required width and depth dimensions given.
5. When trenching is provided by SRP, non standard trenches shall have 2 compatible unit codes in the grid, UTP plus the UTPX, to adjust the time for digging.
6. When specified depth cannot be obtained because of solid rock, a minimum earth cover of 24" is acceptable, provided a minimum 2" encasement of concrete surrounds the conduit.
7. Use example shown to figure length of UTPX trench, unless the entire trench is non standard.



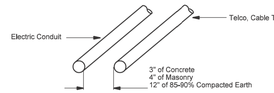
UTPX quantity = the factor from the UT-X Chart multiplied by the trench footage length which is non-standard, as calculated in item 4. If multiple calculations for non-standard trench are made, add all totals together, only one entry is needed for UTPX quantity in the grid.

8. If secondary/service or street light must be placed in P.U.E. or road R.O.W.use UTP trench dimensions and enter UTS as the compatible unit.
9. Provides 1.5 times regular man-hours.
10. Trench bottom to be smooth and free of sharp rocks. Where excavation is in rock, bottom of trench to have protective layer of clean, level, tamped backfill or sand.

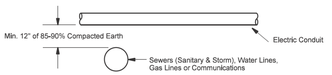
Underground Distribution Construction Standards	REV. CORRECTED TRENCH DEPTH TYPO.	Page 1 of 2
PROPRIETARY MATERIAL	TRENCHING EXCAVATION CODES	ISSUE DATE: 01/15/87 REV. DATE: 03/06/13 APPROVAL: B.PRIEST
	6-11-1	8613E135.DGN

NOTES

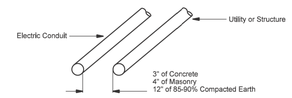
1. Minimum vertical or horizontal separations between electric conduit systems and communications conduit systems (NESC Rule 320B2):



2. Minimum clearance between an electric conduit system and other existing underground structures or utilities (Note 4):



3. Horizontal clearance for parallel structures (NESC Rule 320B):



4. An alternative to 12" of 85-90% compacted earth is a rigid support for the upper structure to prevent it from transferring any direct load to lower structure.
5. Conduit should be installed as far as practical from a water main to protect it from being undermined if the main breaks.
6. Municipals and other utilities may have additional requirements.

Electric Service Specifications		
PROPRIETARY MATERIAL	CLEARANCES UNDERGROUND CONDUIT	ISSUE DATE: 04/15/88 REV. DATE: 10/25/12 APPROVAL: W.LARAMIE
	5-3	8509E148.DGN

SOIL TYPES, BACKFILL MATERIAL AND COMPACTION REQUIREMENTS

This information is to be superseded by any conflicting information that may be published in the SRP Excavation Safety Resource Manual. Contact SRP Safety Services for a copy of this manual.

NOTES

1. Measure trench depths from final grade stakes. Follow all trench depths specified on a job drawing. See clearance section for minimum cover and separation requirements.
2. Shore or slope trench walls as required by the latest revision of the Excavation Safety Manual.
3. The bottom of the trench shall be smooth and free of aggregate protruding more than $^3/_8$" above the bottom. If this condition cannot be obtained, cover the bottom of the trench with a level layer of sand with a grain size less than $^3/_8$" in diameter to cover all protrusions.
4. BACKFILL AND COMPACTION FOR CONDUIT IN NATIVE SOIL: Within 6" of the conduit, backfill material shall be free of broken concrete, paving, wood, glass or other solid material greater than 1 ½". This backfill shall contain more than 50% fines of a size that is $^3/_8$" or smaller. The balance of the trench backfill shall be free of solid material greater than 4" in maximum dimension and shall contain more than 50% fines of a size that is $^3/_8$" or smaller.

COMPACTED FILLS

MATERIAL ITEM #	MATERIAL	DESCRIPTION
0000113	GRANULAR MAG Aggregate Base Coarse (ABC)	Well graded unwashed sand and gravel used in compacted subgrades for pavements and general backfill.
	SAND	Soil mostly made of particles less than $^3/_{16}$" in size, but containing little or no silt or clay.
	NATIVE SOIL	Soil placed by nature that has not been altered by man and meets requirements of Note 4.

5. Use other backfill if it is more economical. Notify Civil Inspectors at least 48 hours prior to start of work to arrange for compaction testing.
6. Compact backfill to at least the percentage of maximum density listed in the following MAG Specification (as determined by ASTM D698), unless otherwise specified.

Contact the municipality concerned for repair requirements when a trench will be under pavement. The following table applies when there are no supplemental municipal requirements.

Electric Service Specifications		
PROPRIETARY MATERIAL	TRENCHING AND CONDUIT SOIL TYPES, BACKFILL MATERIAL AND COMPACTION REQUIREMENTS	ISSUE DATE: 06/25/90 REV. DATE: 11/07/12 APPROVAL: W. Laramie
	6-19	ES96-19b6-21.doc

SOIL TYPES, BACKFILL MATERIAL AND COMPACTION REQUIREMENTS

MAG SPECIFICATION 601-2 *Modified to meet most MAG Agency requirements.*	FROM SURFACE TO 2' BELOW SURFACE	FROM 2' BELOW SURFACE TO TRENCH BOTTOM
A. Under or within 2' existing or proposed pavement, curb, gutter or sidewalk	Native.....95% Granular.....100%	All 95%
B. On any utility easement street, road or alley ROW outside limits of A	90%	90%*
C. Around and under any structures or pad-mounted equipment or exposed utilities	95%	95%
D. All other areas	80%	80%

* Applicable from 1' above conduit, 85% below.

NOTE: Do not use machine compaction within 6" of cable or conduit.

SLURRY BACKFILL MIXES (NO COMPACTION REQUIRED)

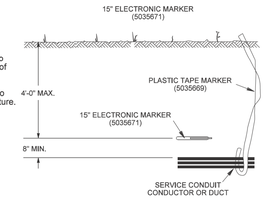
MAT. ITEM #	ABBREV.	SLURRY TYPE	DESCRIPTION	COARSE AGGREGATE ASTM C33	FINE AGG.	SLUMP RANGE	MIN. CEMENT CONTENT (LBS/ CU. YD.)
0000100	ASB	Aggregate Slurry Backfill	Washed gravel and sand or clean ABC, no cement, backfill around wood and concrete transmission line poles and in trenches (no loads).	NO. 67 [3/4" (19mm) NOM. MAX.]	NOTES 11 & 12	6"-9"	NONE
0000104	CLSM ½ SACK	Controlled Low Strength Material w/ ½ Sack Cement PCY	Washed gravel and sand or clean ABC, with cement, trench backfill (low load areas-streets and lots).	MIXES IN ACCORDANCE WITH MAG 728 (13)			
0000105	CLSM 1 SACK	Controlled Low Strength Material w/ 1 Sack Cement PCY	Washed gravel and sand or clean ABC, with cement, trench backfill in low load areas (streets and lots). Use in lieu of CLSM ½ Sack as required by cities.				
0000106	CLSM 1 ½ SACK	Controlled Low Strength Material w/1 ½ Sack Cement PCY	Washed gravel and sand or clean ABC, with cement, structural backfill under foundations and as thermal fill and/or mechanical protection of duct banks.				
000109	DBS	Duct Bank Backfill w/ Sand Slurry	Grout for pumping around conduits placed in pipe sleeves.	NONE	NOTE 11	6"-9"	376

Electric Service Specifications		
PROPRIETARY MATERIAL	TRENCHING AND CONDUIT SOIL TYPES, BACKFILL MATERIAL AND COMPACTION REQUIREMENTS	ISSUE DATE: 06/25/90 REV. DATE: 10/25/12 APPROVAL: W. Laramie
	6-20	ES96-19b6-21.doc

SOIL TYPES, BACKFILL MATERIAL AND COMPACTION REQUIREMENTS

7. When trenching in an area where many undercrossings of other utility lines or conflicts are encountered, installation of conduit under all of the conflicts is more difficult. Wider trenches should be used for these installations.
8. Water flooding of trenches, in order to provide compaction, is only allowed provided the volume of water does not saturate the backfill, water pressure does not displace the backfill, and is pre-approved by ESE. Standing water is an indication of saturation.
9. Trench spoil shall be placed 6' to 10' from edge of a trench. If not possible, trench spoil may be placed on one side of the trench, within 4' of the edge, provided the opposite side of the trench is level, without obstructions, and accessible by persons and equipment.
10. If compaction is uneconomical around or under structures, pad-mounted equipment or exposed utilities, CLSM ½ Sack (0000104) may be used.
11. Fine aggregates (sand) shall be in accordance with ASTM C33.
12. Fine aggregates 45-50% of the total aggregate weight.
13. Purchaser may request material at lower slumps.
14. A standard sack of cement is considered to weigh 94 pounds and is one cubic foot volume.

Electric Service Specifications		
PROPRIETARY MATERIAL	TRENCHING AND CONDUIT SOIL TYPES, BACKFILL MATERIAL AND COMPACTION REQUIREMENTS	ISSUE DATE: 06/25/90 REV. DATE: 10/25/12 APPROVAL: W. Laramie
	6-21	ES96-19b6-21.doc

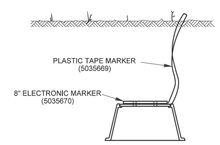


NOTES

This buried electronic marker is to be used for marking the location of connection points, t-taps, mole assemblies,conduit stub-outs or other locations which may need to be located at some time in the future.

NOTES

1. Bury at least 8" above energized conductor. closer distance will cause the marker to be ineffective at 4' or greater depth.
2. The marker is to be buried flat and level.
3. Cover with at least 4" of select back fill to prevent accidental movement or damage during back fill. For service conduit, it may be in bottom of trench.
4. Care should be taken to ensure that cable, tin foil, or other extraneous metal does not get discarded into the trench prior to back fill. Metal in close proximity will render the markerineffective.
5. For permanent installation with a buried j-box, drill two holes in lid and secure marker to lid with nylon cable tie.

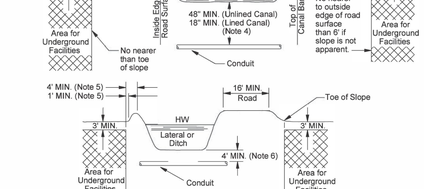


Electric Service Specifications		
PROPRIETARY MATERIAL	TRENCHING AND CONDUIT PLACEMENT STANDARD FOR BURIED ELECTRONIC MARKER	ISSUE DATE: 09/01/09 REV. DATE: 09/20/2013 APPROVAL: W.LARAMIE
	6-6	8509E308.DGN

SRP PIPES, CANALS AND LATERALS

Table 2.1

Description	MIN. (NOTE)	To Be < (NOTE)
A = Utility overcrossing at crossing angle 30° to 90° .	1' (1 & 2)	1' (1, 2 & 3)
B = Utility parallel to line of SRP irrigation pipe. Horizontal clearance is measured between edge of existing SRP irrigation pipe and edge of excavation required for other utility. Assure continuous support of SRP irrigation pipe. Shore excavation as necessary.	4'	4' (1)
C = Utility undercrossing at crossing angle 30°to 90° to line of SRP irrigation pipe.	2'	2' (1 & 3)



NOTES

1. Prior approval required. Contact SRP Irrigation Customer Service.
2. For 8' each side of centerline of SRP irrigation pipe, other utility shall be in ferrous metal or minimum 2" thick, 2,500 psi concrete encasement.
3. Minimum 1" thick neoprene or styrofoam cushion required between SRP irrigation pipe and ferrous metal (sleeve) or encasement of other utility.
4. The top of the conduit will be 48" or more from the bottom of an unlined canal and 18" or more below a lined canal bottom.
5. Minimum 1' beyond toe or 4' beyond edge of ditch, whichever is greater.
6. Contact Water Operations & Maintenance Field Coordinator.

Electrical Clearance Standards	REV. UPDATED PIPE / CONDUIT CLEARANCE REQUIREMENTS	
PROPRIETARY MATERIAL	UNDERGROUND CLEARANCES SRP PIPES, CANALS AND LATERALS	ISSUE DATE: 09/30/91 REV. DATE: 05/22/19 APPROVAL: N. Sabbah
	2-6-1	8507E60.DGN

SECTION 5: HARDWARE AND BASIC UNITS

5034692

UVJB4

UVJB4G CONTRACTOR INSTALLED

FLUSH MOUNTED-BOLT ON COMPOSOLITE LID (APPROX. 15" X 21" X 12")

UVJB4C

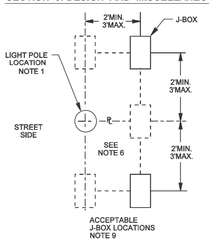
REPLACEMENT COVER FOR ARMORCAST 5034683

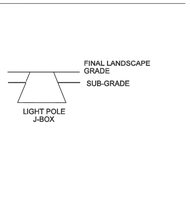
NOTE:

TAKE CARE TO PROVIDE A SMOOTH, LEVEL AND WELL-COMPACTED BASE FOR PLACING THE BOX. COMPACT AROUND THE SIDES OF THE BOX TO PREVENT SETTLING.

Outdoor Lighting Standards		
PROPRIETARY MATERIAL	HARDWARE AND BASIC UNITS VAULTS,MANHOLES AND BOXES JUNCTION BOX INSTALLATION	ISSUE DATE: 01/21/00 REV. DATE: 11/01/13 APPROVAL:W.LARAMIE
	5-10-1	8518E95.DGN

SECTION 3: DESIGN AND MISCELLANEOUS





NOTES:

1. CUSTOMER TO STAKE LIGHT LOCATION PER APPROVED MUNICIPAL PLAN.
2. GRADE STAKE TO BE WITHIN 2 FEET OF J-BOX LOCATION. CUSTOMER TO STAKE J-BOX LOCATION. AVOID CONFLICT WITH SIDEWALK, LANDSCAPING, ETC.
3. GROUND ROD TO BE INSTALLED FOR EACH STREET LIGHT LOCATION PER STANDARDS ON PAGE 9-1-1.
4. SEE SONOTUBE INSTALLATION DETAIL, PAGE 9-1-1, IF APPL:CABLE.
5. #6 BARE COPPER GROUND WIRE TO BE ATTACHED FROM GROUNDING LUG ON STREET LIGHT POLE TO GROUND ROD IN J-BOX.
6. J-BOX MAY BE POSITIONED BEHIND THE POLE, EXCEPT IN THE CITIES OF CHANDLER AND GILBERT.
7. IF POLE IS IN PROXIMITY OF METALLIC APPARATUS SEE CONSTRUCTION STANDARDS SECTION, LIGHT POLES IN PROXIMITY OF METALLIC APPARATUS, BONDING. ALSO SEE SECTION 3 "ELECTRIC SERVICE REQUIREMENTS NOTE 6".
8. FOR PEDESTAL MOUNTED POLES THE J-BOX IS LOCATED ABOVE THE WATER LINE. SEE POLE PLACEMENT, WATER RETENTION BASIN.
9. SOME CLEARANCE RESTRICTIONS APPLY TO J-BOX LOCATIONS NEAR TRANSFORMERS, SEE DESIGN AMD MISCELLANEOUS, CLEAR AREA FOR CUSTOMER EQUIPMENT, ADJACENT TO TRANSFORMER.

Outdoor Lighting Standards		
PROPRIETARY MATERIAL	DESIGN AND MISCELLANEOUS STREETLIGHT POLE J-BOX LOCATION DETAILS	ISSUE DATE: 11/19/01 REV. DATE: 09/17/13 APPROVAL:W.LARAMIE
	3-11-1	8518E90.DGN

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CONSTRUCTION CONSULTANT:
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NATURAL GAS YES [ ] NO [x]

JOB NAME LOGIC PARK - STLT
ADDRESS/LOCATION SWC 91ST AVE & BUCKEYE RD
CONTACT THOMAS FYFFE PHONE 623-236-6860
BILLING ACCT NO.
FIS JO MAP 1/4 NE S 16 T 1N R 1E
40/ACRE AA-16-01 COORDS 2 13/16N - 3 15/16N
AMP WO T3200028 AMP VERSION
COST CENTER 22640
ROUTING CODE DDY+3

Contact Arizona 811 at least two full working days before you begin excavation. Arizona811.com Call 811 or click Arizona811.com

SHEET NUMBER 3 OF 4

22x34frm.JD2 01-23-2019

RADIAL LIGHT

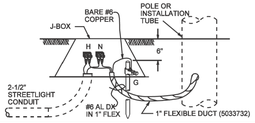
SOURCE CABLE DOES NOT HAVE GROUND CONDUCTOR (#6 DX)

H = 120V
N = NEUTRAL
G = GROUND ROD

ULR6D FLEX DUCT

ULR6DG CONTRACTOR

NOTE 2



SERIES LIGHTS

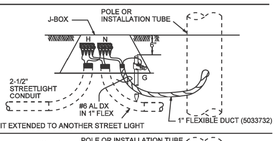
SOURCE CABLE DOES NOT HAVE GROUND CONDUCTOR (#6 DX)

H = 120V
N = NEUTRAL
G = GROUND ROD

ULS6D FLEX DUCT

ULS6DG CONTRACTOR

NOTE 2



2 1/2" CONDUIT EXTENDED TO ANOTHER STREET LIGHT

RADIAL LIGHT

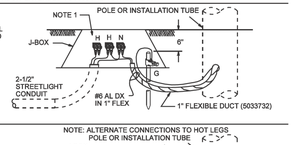
SOURCE CABLE DOES NOT HAVE GROUND CONDUCTOR (1/0 TX)

H = 120V
N = NEUTRAL
G = GROUND ROD

ULR10 FLEX DUCT

ULR10G CONTRACTOR

NOTE 2



SERIES LIGHTS

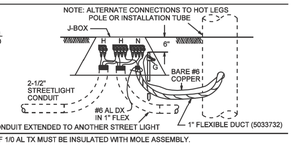
SOURCE CABLE DOES NOT HAVE GROUND CONDUCTOR (1/0 TX)

H = 120V
N = NEUTRAL
G = GROUND ROD

ULS10 FLEX DUCT

ULS10G CONTRACTOR

NOTE 2



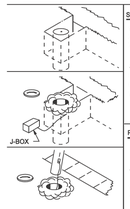
2 1/2" CONDUIT EXTENDED TO ANOTHER STREET LIGHT

NOTE 1) SECOND (UNUSED) HOT LEG OF 1/0 AL TX MUST BE INSULATED WITH MOLE ASSEMBLY.

NOTE 2) IF POLE IS PLACED WITHIN 6 FEET OF ANY ABOVE GROUND METALLIC POWER OR COMMUNICATIONS APPARATUS SEE DESIGN AND MISCELLANEOUS SECTION, "NON-MUNICIPAL LUMINAIRE POLE PLACEMENT", AND CONSTRUCTION STANDARDS SECTION "LIGHT POLES IN PROXIMITY OF METALLIC APPARATUS, BONDING".

Outdoor Lighting Standards	CONSTRUCTION STANDARDS J-BOX CONNECTIONS	ISSUE DATE: 01/12/00 REV. DATE: 11/01/13 APPROVAL:W.LARAMIE
PROPRIETARY MATERIAL	6-6-1	8518E128.DGN

SECTION 6: CONSTRUCTION STANDARDS

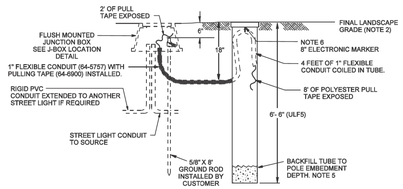


SONO-TUBE INSTALLATION

1) DIG HOLE FOR TUBE IN STREET LIGHT STUB OUT TRENCH.
2) INSTALL TUBE FLUSH TO FINAL LANDSCAPE GRADE.
3) AS THE TUBE IS BEING INSTALLED, THE FLEXIBLE DUCT FROM THE J-BOX SHOULD BE INSERTED INTO THE TUBE THROUGH THE CABLE ENTRANCE HOLE. DO NOT MAKE SHARP BENDS IN THIS DUCT. COIL 4' OF FLEXIBLE DUCT INSIDE, SHOWN BELOW.
4) COMPACT THE TUBE BACKFILL BY TAMPING THE EARTH FIRM.
5) BACKFILL THE INSIDE OF THE TUBE WITH NATIVE SOIL TO POLE EMBEDMENT DEPTH.
6) SECURE THE ELECTRONIC MARKER TO THE LID WITH THE TIE PROVIDED AND PLACE LID ON THE TUBE.
7) SRP LOCATOR WILL MARK THE LID LOCATION THROUGH BLUE STAKE NOTICE.

POLE INSTALLATION IN TUBE

8) LIGHT INSTALLER DIGS DOWN TO LID, REMOVES LID, PULLS DUCT FROM TUBE.
9) END OF DUCT IS INSERTED THROUGH LIGHT POLE CABLE ACCESS HOLE AND PUSHED UP TO HAND HOLE AS LIGHT POLE IS LOWERED INTO TUBE.
10) THE POLE HAS A 3/4" RED TAPE BAND TO MARK THE FINAL LANDSCAPE GRADE EMBEDMENT DEPTH. THIS TAPE SHOULD BE AT FINAL LANDSCAPE GRADE.
11) POLE IS HELD SECURELY VERTICAL IN CENTER OF TUBE WHILE BACKFILLING WITH POLE SET FOAM.
12) IF THE POLE IS FIBERGLASS, PLACE THE COLLAR AROUND THE BASE. SEE "FIBERGLASS OR STEEL POLE PROTECTIVE COLLAR" FOR INSTALLATION STANDARD.



ULF5	6'- 6" TUBE
ULF5G	(INSTALLED BY CONTRACTOR)
ULFH	NO MATERIAL, HOLE ONLY, 1 MAN-HOUR.

Outdoor Lighting Standards	CONSTRUCTION STANDARDS STEEL POLE INSTALLATION TUBE	ISSUE DATE: 01/14/00 REV. DATE: 01/21/13 APPROVAL:W.LARAMIE
PROPRIETARY MATERIAL	6-1-1	8516E91.DGN

CUSTOMER-OWNED STREETLIGHTS

I. The developer or the AHJ must provide SRP with a city-approved lighting plan for the project. The developer will stake the light pole and J-box locations per the approved plan.

II. The developer will install the J-box, conduit, ground rod, light pole and all components per the SRP standards as shown on the following pages.

III. The responsible party who installs the light pole will also install the wire from the street light pole to the J-box.

IV. Unless by special agreement, SRP makes the final connection of the wire in the J-box.

V. Public lights are unmetered services. Unmetered services are only allowed for:

A. An outdoor luminaire controlled only by a photocell with turn on light level of 1.0 foot candle (+/- 0.25fc) and turn off light level of 1.5 foot candle (+/- 0.5fc).

B. Lighting loads served from a controller controlled only by a photocell with the operating levels per #I.

C. Contracted loads served from an SRP light pole service, at the top of the pole, such as a Wi-Fi device. SRP reserves the right to decide, on an individual basis, if these will be allowed. Engineering must be contacted to determine the feasibility, based on but not limited to, the pole's strength and ability to support the added weight and wind load, the pole/arm/luminaire configuration, visual esthetics, electrical concerns and maintenance concerns.

When an unmetered load is converted to operate outside these stated guidelines, the Customer shall assume the entire cost to convert to a metered load. Variable lighting must be metered. If not metered, no allowance for cost savings is available. Additional charges to meter would apply, including but not limited to, metering equipment, trenching, conduit and cable costs.

Electric Service Specifications	COMMERCIAL – TYPES OF SERVICE CUSTOMER-OWNED STREETLIGHTS	ISSUE DATE: 01/28/05 REV. DATE: 11/08/12 APPROVAL: W. Laramie
PROPRIETARY MATERIAL	4-7	ES54-07.doc

CONTACTS:

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CONSTRUCTION CONSULTANT:
TONY CROCKETT
MOBILE:(602)448-1568

NATURAL GAS YES [ ] NO [x]

JOB NAME LOGIC PARK - STLT
ADDRESS/LOCATION SWC 91ST AVE & BUCKEYE RD
CONTACT THOMAS FYFFE PHONE 623-236-6860
BILLING ACCT NO.
FIS JO MAP 1/4 NE S16 T1N R1E
40/ACRE AA-16-01 COORDS 2 13/16N - 3 15/16N
AMP WO T3200028 AMP VERSION

Contact Arizona 811 at least two full working days before you begin excavation. Arizona811 Call 811 or click Arizona811.com

COST CENTER 22640
ROUTING CODE DDY+3

SHEET NUMBER 4 OF 4

22x34frm, JD2 01-23-2019