6/12/2018

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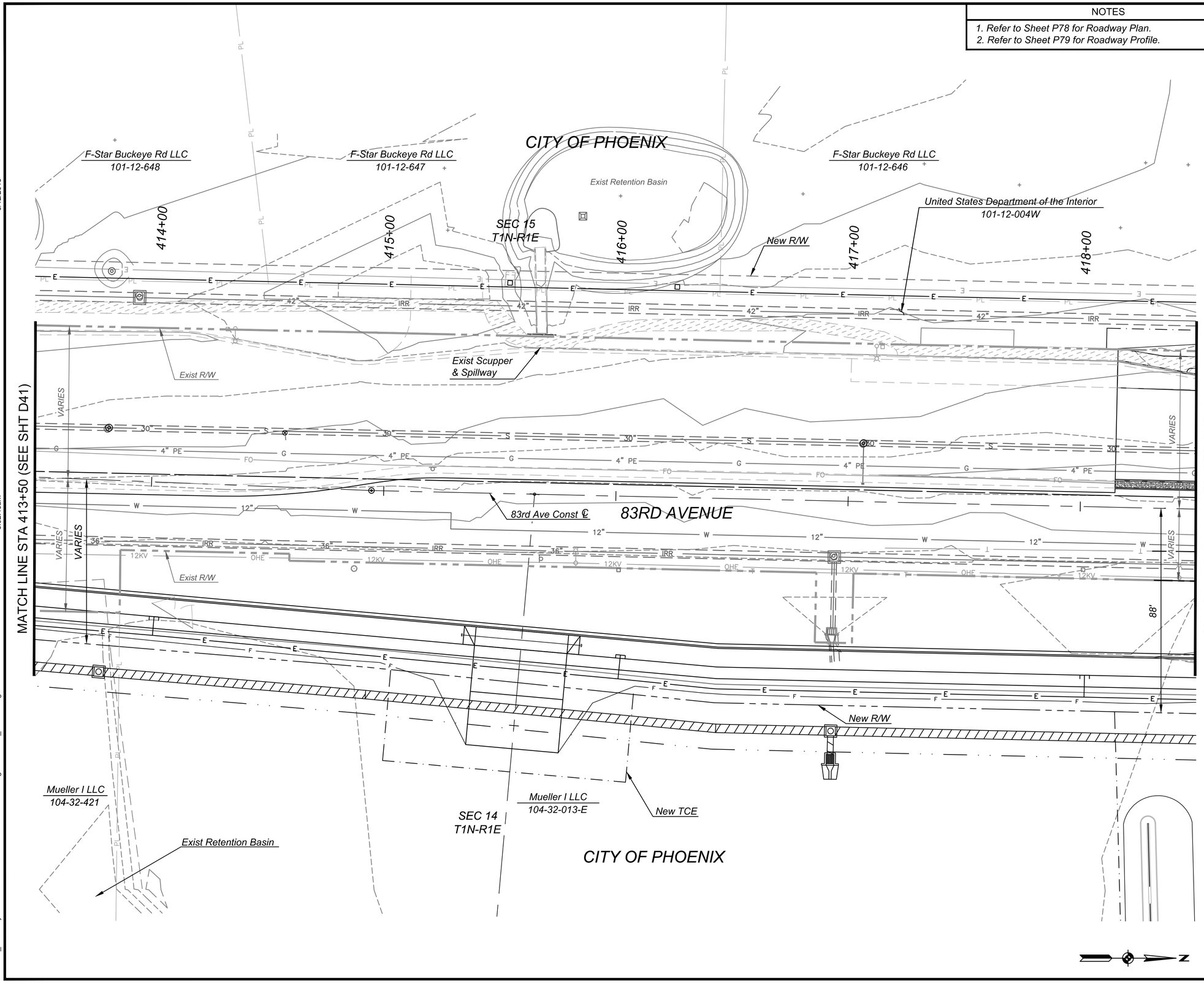
NOTES

1. Refer to Sheet P78 for Roadway Plan.
2. Refer to Sheet P79 for Roadway Profile.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	194	303	

☐ REMOVAL/RELOCATE BY OTHERS ☐

⬡ CONSTRUCTION ⬡



SCALE: Hor: 1"=20'

20 0 20 40

SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT Date Signed 6/15/18 ARIZONA, U.S.A. Expires 6/30/2019

	BY	DATE
DESIGNED	Z. Schmidt	06/2018
DRAWN	D. Turner	06/2018
CHECKED	L. Marin	06/2018

Kimley»Horn

DRAINAGE PLANS
83rd Ave Sta 413+50 to Sta 418+50

SHEET D42 OF D49

TRACS NO. _____

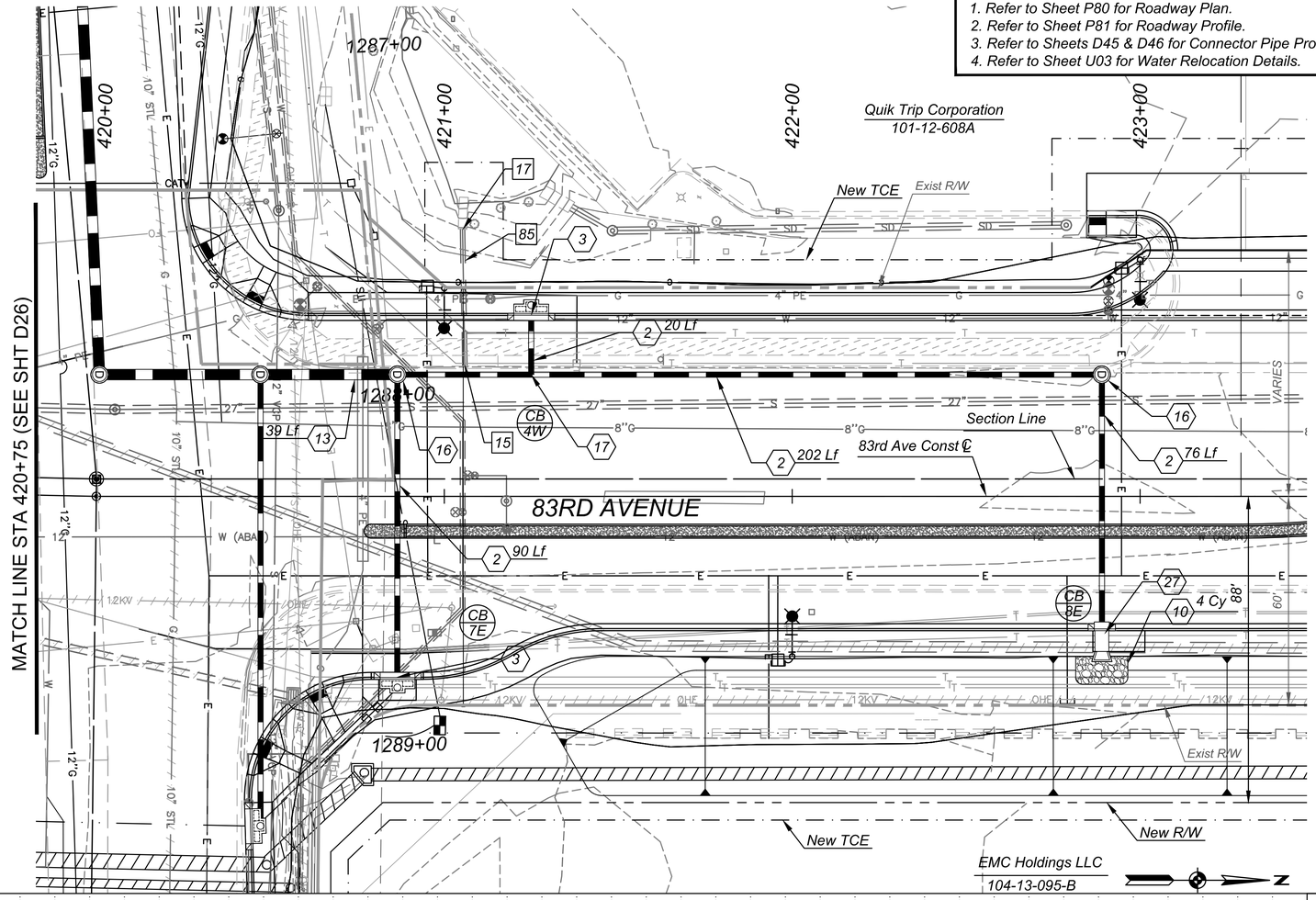
6/12/2018

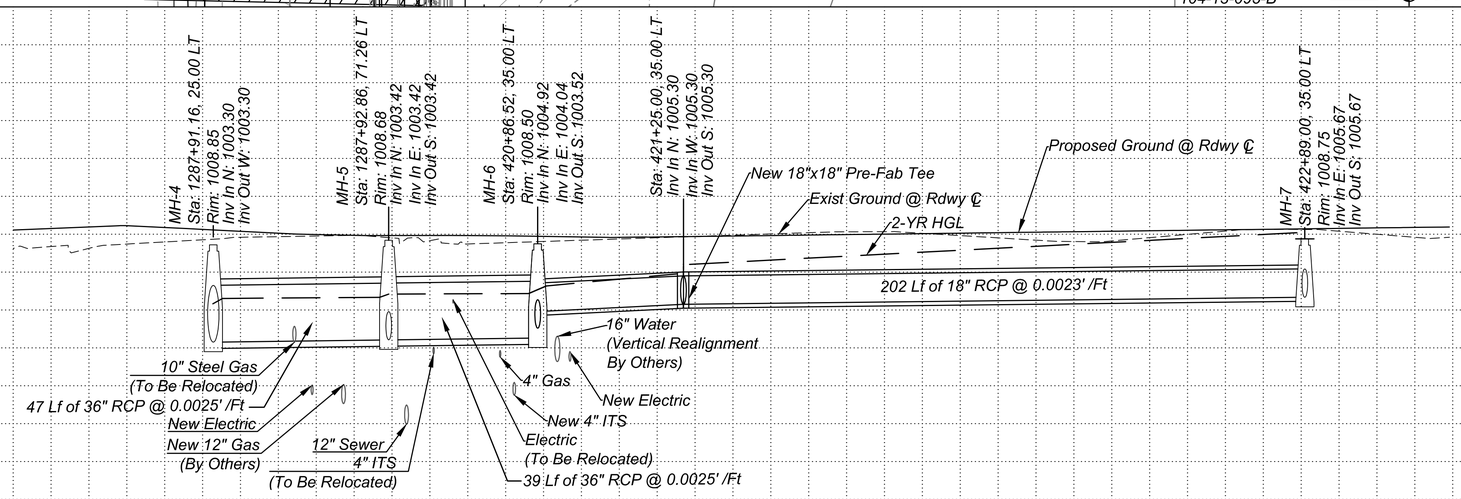
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NOTES
1. Refer to Sheet P80 for Roadway Plan.
2. Refer to Sheet P81 for Roadway Profile.
3. Refer to Sheets D45 & D46 for Connector Pipe Profiles.
4. Refer to Sheet U03 for Water Relocation Details.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	195	303	





☐ REMOVAL/RELOCATE BY OTHERS ☐

15	Remove Catch Basin Sta 421+05.92, 37.45' Lt	1 Ea
17	Remove Headwall Sta 421+05.25, 76.79' Lt	1 Ea
85	Remove Pipe, 15", Backfill & Compact	39 Lf

⬡ CONSTRUCTION ⬡

2	18" Storm Drain, RGRCP, Class IV	388 Lf
3	Catch Basin Per COP Std Det P1569-1, M-2, L_1=L_2=3' Sta 420+86.50, 52.07' Lt P1569-1, M-2, L_1=L_2=3' Sta 421+25.00, 52.00' Lt	2 Ea
10	Dumped Riprap, D50=6"	4 Cy
13	36" Storm Drain, RGRCP, Class IV	39 Lf
16	Storm Drain Manhole Per COP Std Det P1520 & MAG Det 522 Sta 420+86.52, 35.00' Lt Sta 422+89.00, 35.00' Lt	2 Ea
17	18" x 18" Prefabricated Tee Sta 421+25.00, 35.00' LT (83rd Ave)	1 Ea
27	Catch Basin Per COP Std Det P1583 Sta 422+89.00, 38.00' Rt	1 Ea

SCALE: Hor: 1"=20' Vert: 1"=4'
20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT Date Signed 6/15/18 ARIZONA, USA
Expires 6/30/2019

	BY	DATE
DESIGNED	Z. Schmidt	06/2018
DRAWN	D. Turner	06/2018
CHECKED	L. Marin	06/2018

Kimley»Horn

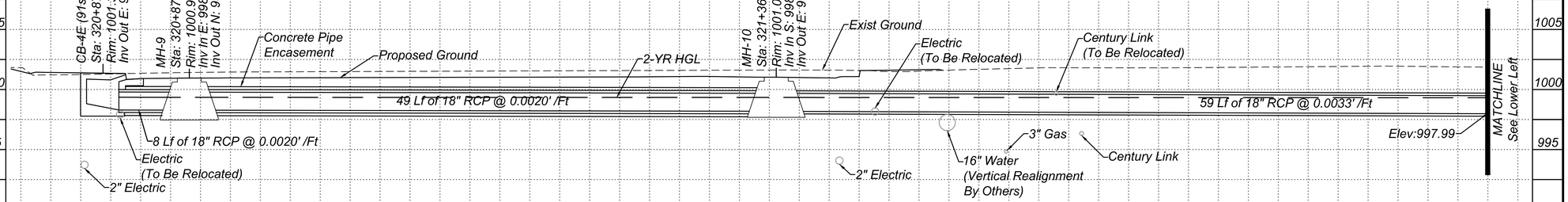
DRAINAGE PLANS
83rd Ave Sta 418+50 to Sta 423+50

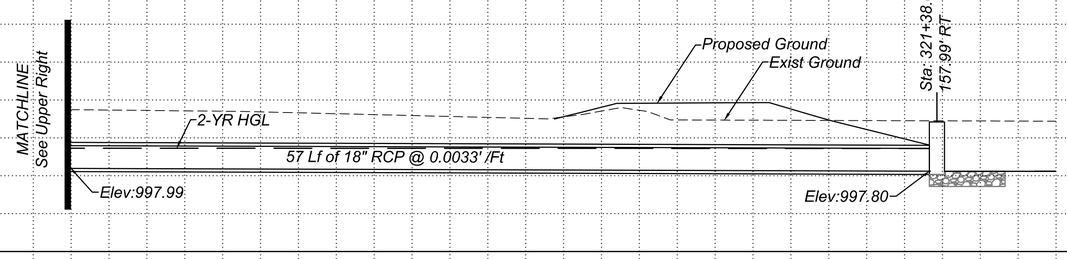
SHEET D43 OF D49

TRACS NO. _____

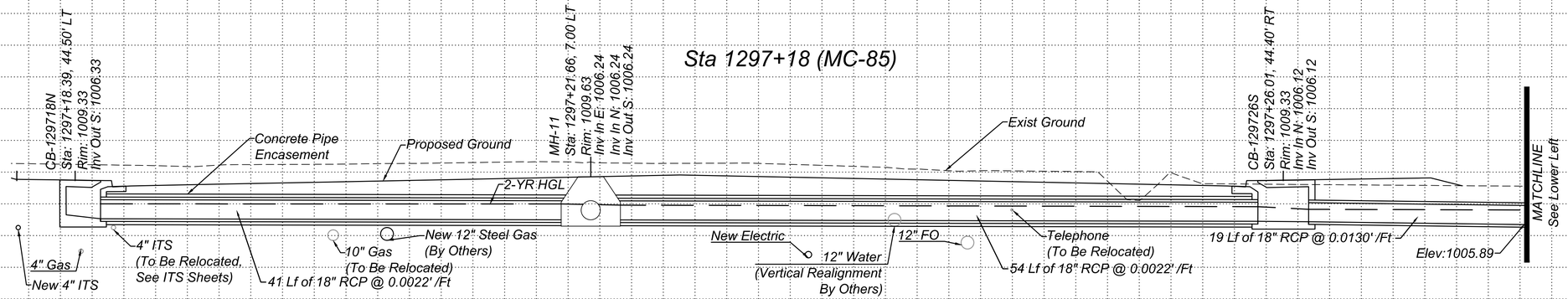
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	196	303	

Sta 321+42 (91st Avenue)

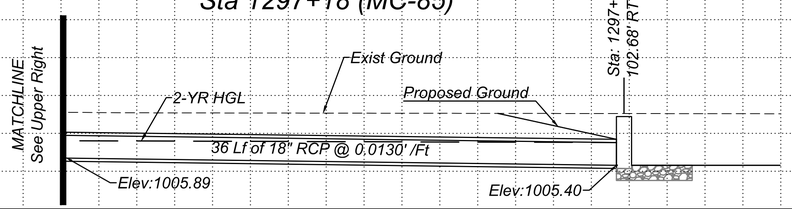




Sta 1297+18 (MC-85)



Sta 1297+18 (MC-85)



Refer to Sheet U03 for Water Relocation Details.

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

SCALE: Hor: 1"=5'
Ver: 1"=5'

5 0 5 10
SCALE IN FEET

	BY	DATE
DESIGNED	Z. Schmidt	11/2017
DRAWN	D. Turner	11/2017
CHECKED	L. Marin	11/2017

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT Date Signed 11/1/17 ARIZONA, USA
Expires 6/30/2019

Kimley»Horn

CONNECTOR PIPE PROFILES

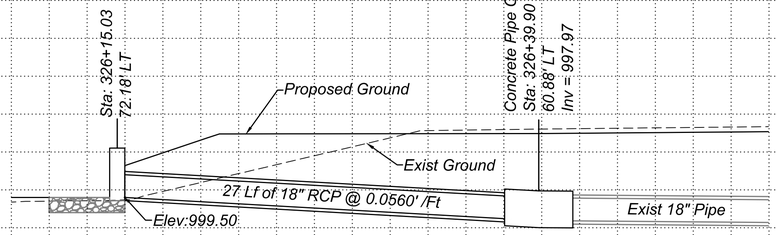
SHEET D44 0F D49

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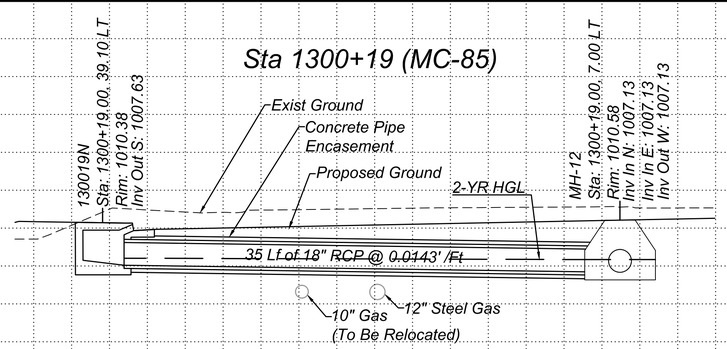
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	197	303	

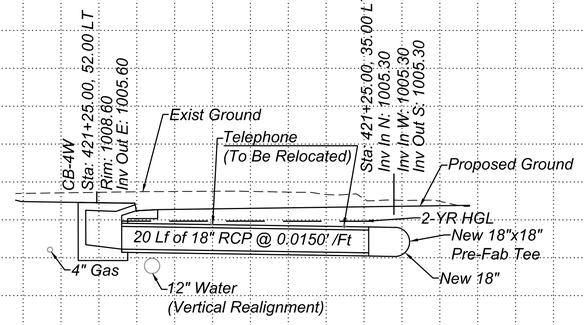
Sta 326+15 (91st Avenue)



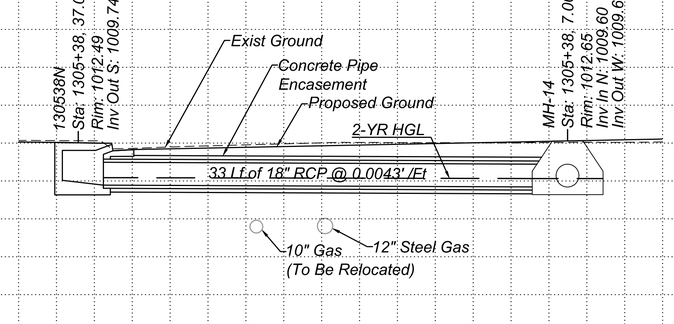
Sta 1300+19 (MC-85)



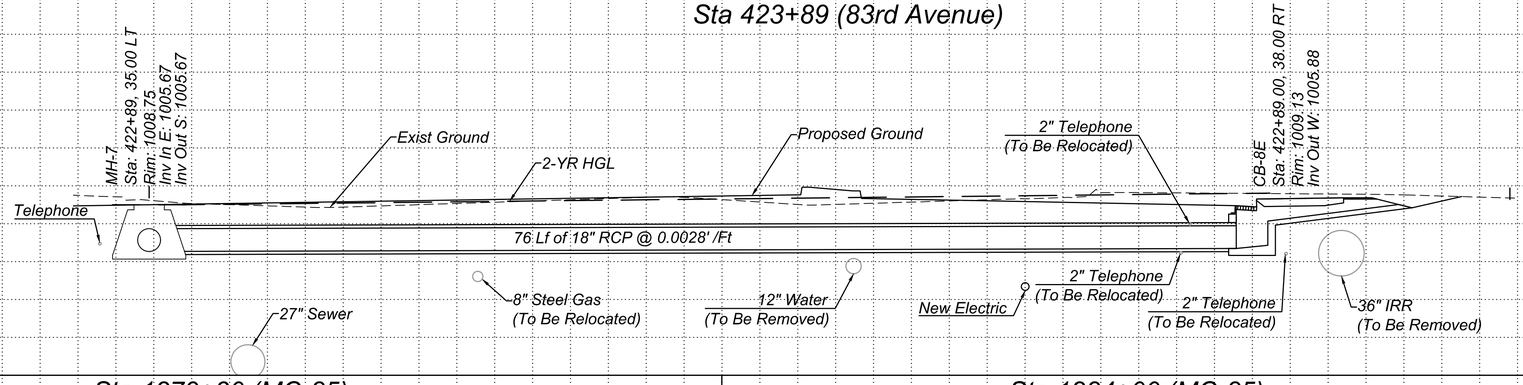
Sta 421+25 (83rd Avenue)



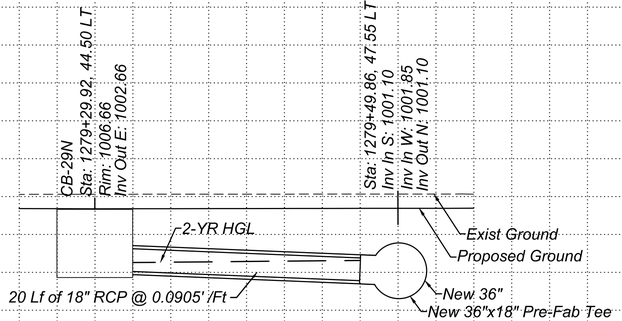
Sta 1305+38 (MC-85)



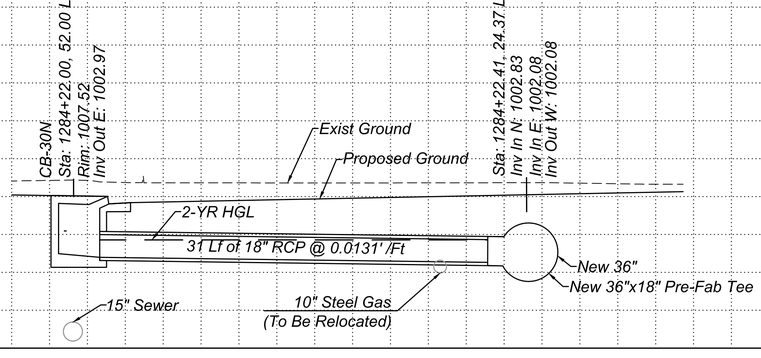
Sta 423+89 (83rd Avenue)



Sta 1279+30 (MC-85)



Sta 1284+00 (MC-85)



SCALE: Hor: 1"=5'
Ver: 1"=5'

5 0 5 10
SCALE IN FEET

Refer to Sheet U03 for Water Relocation Details.

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	Z. Schmidt	11/2017
DRAWN	D. Turner	11/2017
CHECKED	L. Marin	11/2017

Registered Professional Engineer (Civil)
CERTIFICATE NO.
50959
ZACHARY
SCHMIDT
Date Signed 11/1/17
ARIZONA, U.S.A.
Expires 6/30/2019

Kimley»Horn

CONNECTOR PIPE PROFILES

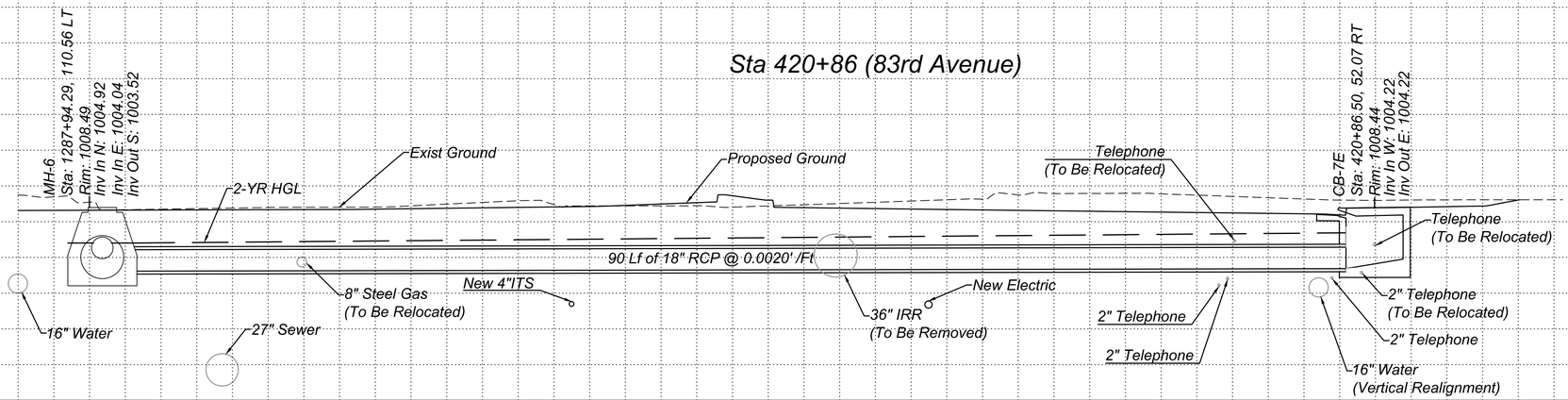
SHEET
D45 OF D49

TRACS NO. _____

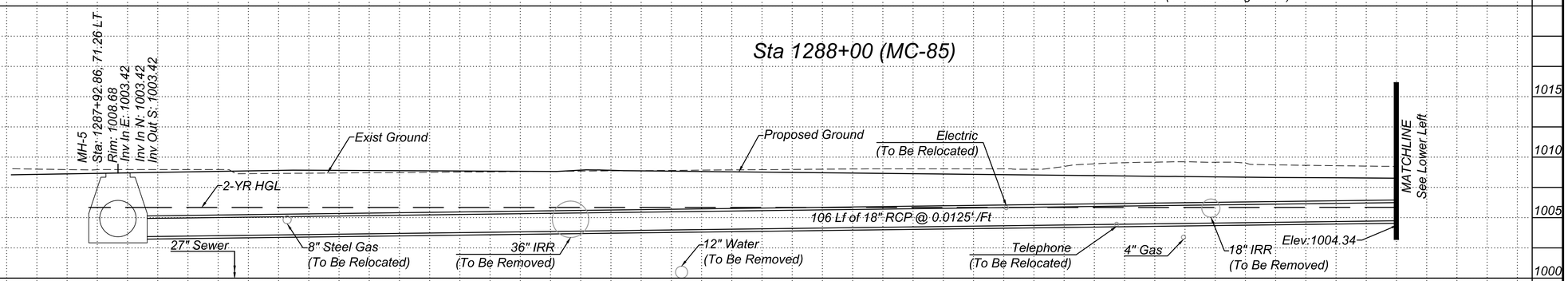
10/30/2017
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	198	303	

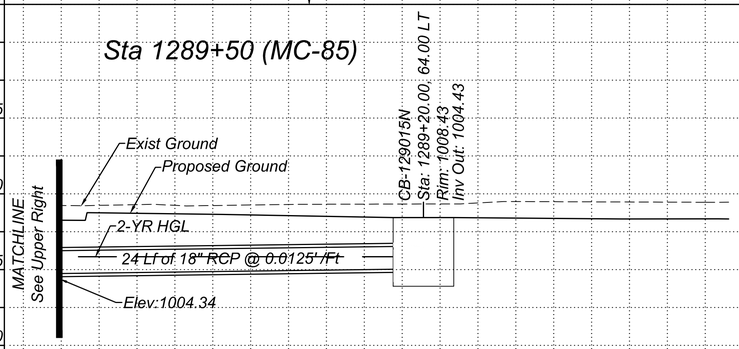
Sta 420+86 (83rd Avenue)



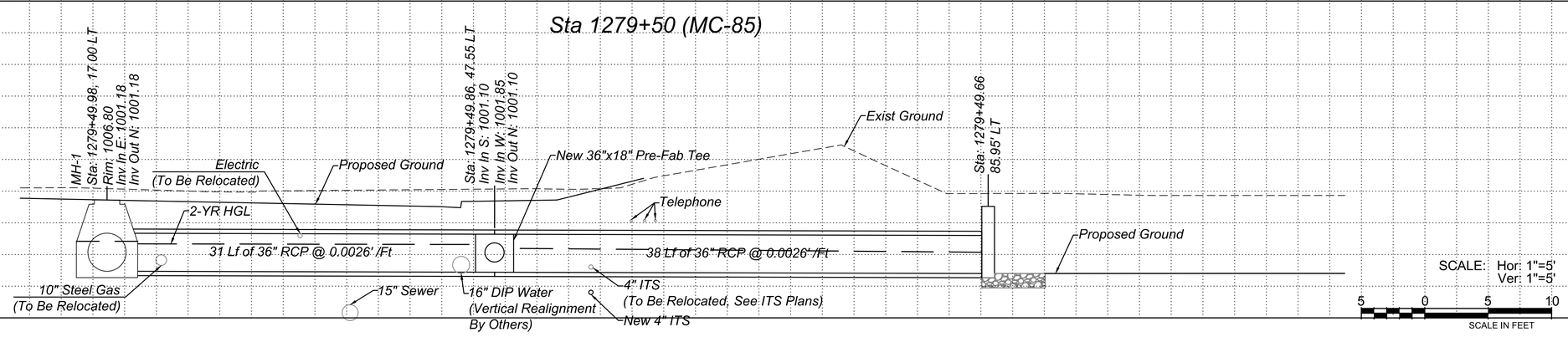
Sta 1288+00 (MC-85)



Sta 1289+50 (MC-85)



Sta 1279+50 (MC-85)



SCALE: Hor: 1"=5'
Ver: 1"=5'

5 0 5 10
SCALE IN FEET

Refer to Sheet U03 for Water Relocation Details.

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	Z. Schmidt	11/2017
DRAWN	D. Turner	11/2017
CHECKED	L. Marin	11/2017

Registered Professional Engineer (Civil)
CERTIFICATE NO.
50959
ZACHARY
SCHMIDT
Date Signed 11/1/17
ARIZONA, U.S.A.
Expires 6/30/2019

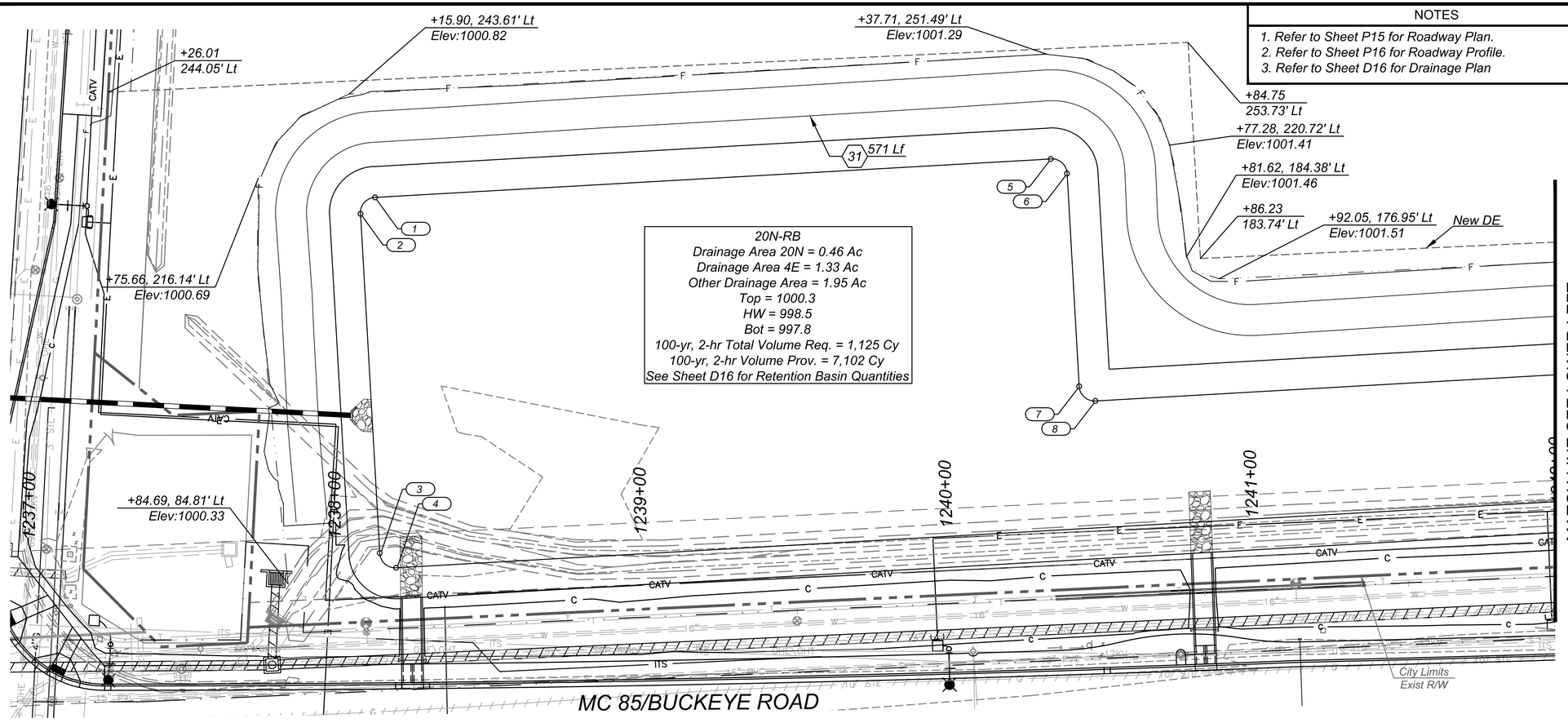
Kimley»Horn

CONNECTOR PIPE PROFILES

SHEET
D46 OF D49

TRACS NO. _____

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NOTES
1. Refer to Sheet P15 for Roadway Plan.
2. Refer to Sheet P16 for Roadway Profile.
3. Refer to Sheet D16 for Drainage Plan

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	199	303	

☐ REMOVAL/RELOCATE BY OTHERS ☐

⬡ CONSTRUCTION ⬡

31	Retention Basin Maintenance Road See Detail DB	880 Lf

(XX) Basin Control Points, See Table this Sheet

Basin Control Points			
Point No.	Station	Offset	Elevation
1	1238+14.22	209.6' LT	997.8
2	1238+09.36	204.37' LT	997.8
3	1238+14.73	94.52' LT	997.8
4	1238+20.01	89.77' LT	997.8
5	1240+37.96	217.57' LT	997.8
6	1240+43.19	212.7' LT	997.8
7	1240+44.91	143.75' LT	997.8
8	1240+50.10	138.87' LT	997.8
9	1244+30.54	140.5' LT	997.8
10	1244+35.53	135.43' LT	997.8
11	1244+35.05	104.43' LT	997.8
12	1244+29.92	99.51' LT	997.8

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

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
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ARIZONA, U.S.A.
Expires 6/30/2019

	BY	DATE
DESIGNED	Z. Schmidt	06/2018
DRAWN	D. Turner	06/2018
CHECKED	L. Marin	06/2018

Kimley»Horn

RETENTION BASIN GRADING

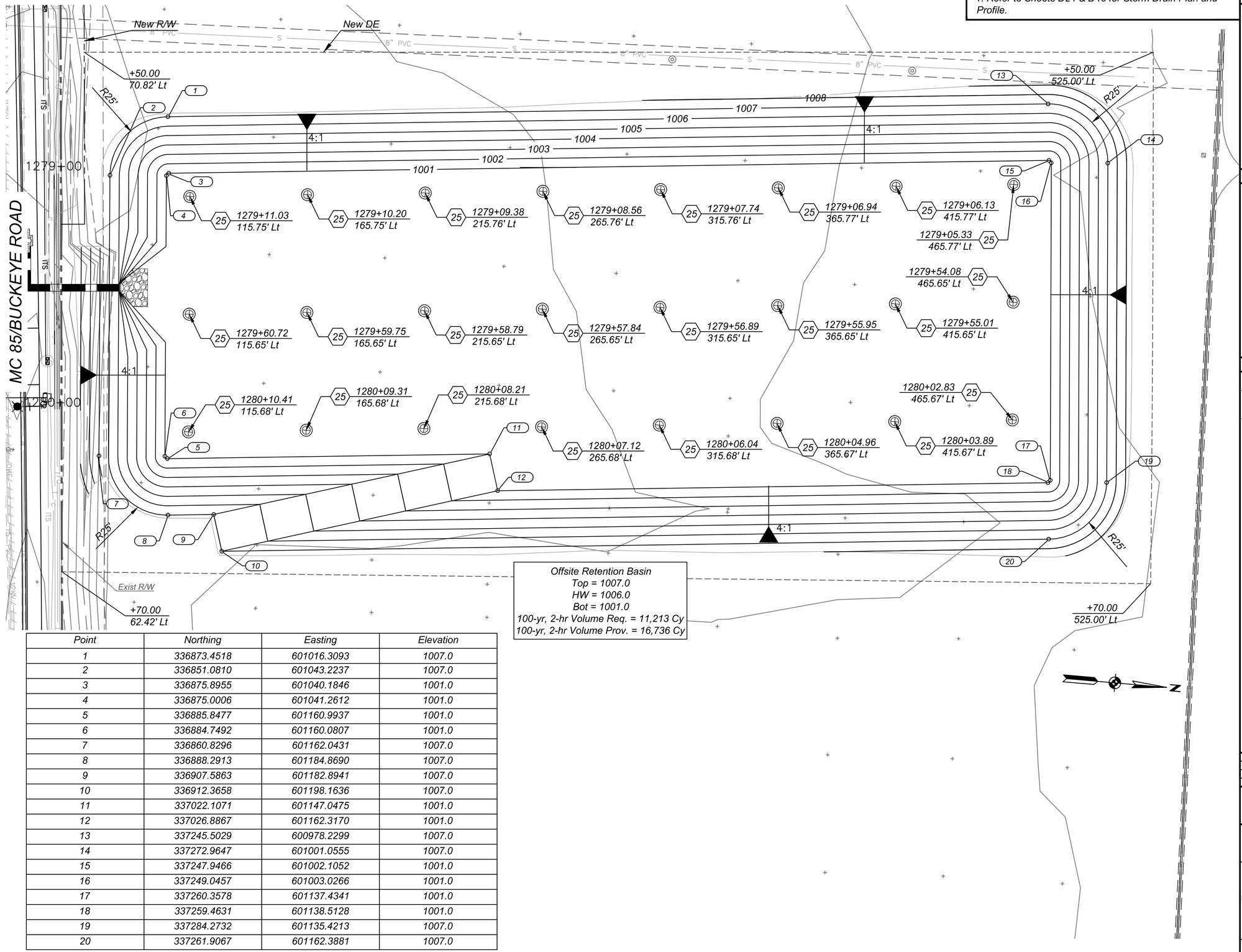
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D47 OF D49

TRACS NO. _____

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8:54:45am
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NOTES
1. Refer to Sheets D24 & D46 for Storm Drain Plan and Profile.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	200	303	



Point	Northing	Easting	Elevation
1	336873.4518	601016.3093	1007.0
2	336851.0810	601043.2237	1007.0
3	336875.8955	601040.1846	1001.0
4	336875.0006	601041.2612	1001.0
5	336885.8477	601160.9937	1001.0
6	336884.7492	601160.0807	1001.0
7	336860.8296	601162.0431	1007.0
8	336888.2913	601184.8690	1007.0
9	336907.5863	601182.8941	1007.0
10	336912.3658	601198.1636	1007.0
11	337022.1071	601147.0475	1001.0
12	337026.8867	601162.3170	1001.0
13	337245.5029	600978.2299	1007.0
14	337272.9647	601001.0555	1007.0
15	337247.9466	601002.1052	1001.0
16	337249.0457	601003.0266	1001.0
17	337260.3578	601137.4341	1001.0
18	337259.4631	601138.5128	1001.0
19	337284.2732	601135.4213	1007.0
20	337261.9067	601162.3881	1007.0

☐ REMOVAL/RELOCATE BY OTHERS ☐

⬡ CONSTRUCTION ⬡

1	Retention Basin Excavation	16,736 Cy
25	Drywell, "Maxwell IV" or Equal, Basic Depth 40'	24 Ea

Notes:
All Drywell Rim Elevations = 1001.33.
Refer to Detail DC for Maintenance Road Detail.
Refer to Detail DE for Drywell Detail.
Final number of drywells to be determined at time of construction based on drywell release rates.

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

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 50959 ZACHARY SCHMIDT Date Signed 6/5/18 ARIZONA, U.S.A. Expires 6/30/2019

	BY	DATE
DESIGNED	Z. Schmidt	06/2018
DRAWN	D. Turner	06/2018
CHECKED	L. Marin	06/2018

Kimley»Horn

RETENTION BASIN GRADING

SHEET D48 OF D49

TRACS NO. _____

6/12/2018 8:55:27am K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Drainage\AZE1019_RB01.dwg

Point No.	Station	Offset	Elevation	Radius
1	1233+37.76	205.72' Lt	997.0	5'
2	1233+46.64	205.67' Lt	997.0	5'
3	1233+26.46	102.50' Lt	997.0	5'
4	1233+42.96	102.23' Lt	997.0	5'
5	1235+50.45	170.05' Lt	997.0	5'
6	1235+47.96	118.32' Lt	997.0	5'
7	1235+64.64	97.01' Lt	1000.5	N/A
8	324+29.90	76.95' Lt	1000.5	N/A
9	326+18.02	65.55' Lt	1000.5	N/A

NOTES

1. Refer to Sheet P15 for Roadway Plan.
2. Refer to Sheet P16 for Roadway Profile.
3. Refer to Sheet D16, D38 & D39 for Drainage Plan

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	201	303	

MATCH LINE SEE LOWER RIGHT

3W-RB
Top = 1001.5
Bot = 997.0
Exist Volume Prov. = 2,992 Cy
Proposed Volume Prov. = 3,232 Cy

First Properties Inc
101-06-001-L

New TCE

New SRPI

Exist Drywell
To Be Removed

322+00

91ST AVE

Exist R/W

1233+46.65
164.30' Lt

1235+50.06
170.89' Lt

Exist Drywell
To Be Removed

New R/W

SC-3W
See Sheet D38 for Plan

1234+42.40
114.48' Lt

321+00

1233+00

1234+00

1235+00

SC-19N
See Sheet D15 for Plan

MC 85/BUCKEYE ROAD

320+00

Exist R/W

MATCH LINE SEE UPPER LEFT

326+00

First Properties Inc
101-06-001-L

New TCE

325+00

Exist Drywell
To Be Removed

New SRPI

New R/W

324+00

CONSTRUCTION

1	Retention Basin Excavation	240 Cy
35	Drywell, "Maxwell Plus" or Equal, Basic Depth 70'	3 Ea

☐ REMOVAL/RELOCATE BY OTHERS ☐

Notes:
All Drywell Rim Elevations = 997.33.
Refer to Detail DF for Drywell Detail.

(XX) Basin Control Points, See Table this Sheet

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

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
CERTIFICATE NO.
50959
ZACHARY
SCHMIDT
Date Signed 6/15/18
ARIZONA, U.S.A.
Expires 6/30/2019

	BY	DATE
DESIGNED	Z. Schmidt	06/2018
DRAWN	D. Turner	06/2018
CHECKED	L. Marin	06/2018

Kimley»Horn

RETENTION BASIN GRADING

SHEET
D49 OF D49

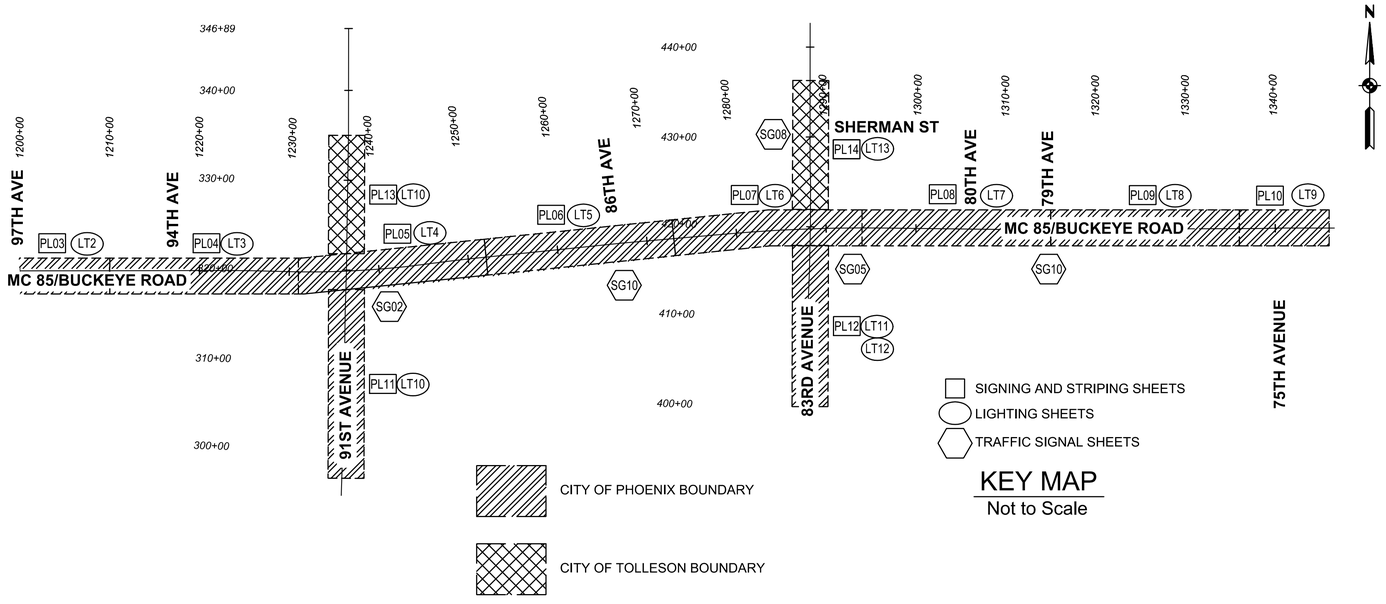
TRACS NO. _____

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	202	303	

SIGNING AND MARKING PLAN

TRAFFIC SHEETS



SIGNING AND STRIPING SHEETS

LIGHTING SHEETS

TRAFFIC SIGNAL SHEETS

KEY MAP

Not to Scale

CITY OF PHOENIX BOUNDARY

CITY OF TOLLESON BOUNDARY

JURISDICTION KEY

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Registered Professional Engineer (Civil) CERTIFICATE NO. 34570 KIMBERLY A. CARROLL Date Signed 6/15/18 ARIZONA, U.S.A. Expires 03/31/2021

Kimley»Horn

SIGNING AND MARKING - COVER

SHEET PL01 0F PL17

TRACS NO. _____

Plot Time: 8:07:47pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signing and Marking\AZE1019_st_cover01.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	203	303	

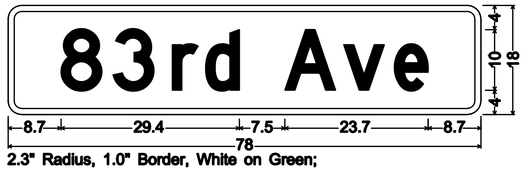
SIGNING AND MARKING PLAN

STRIPING LEGEND

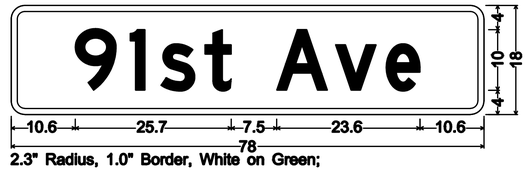
4 SW	*4" SOLID WHITE LINE*
4 DTW	*4" DASHED WHITE LINE WITH 2' LINE SEGMENT AND A 4' GAP*
4 BW	*4" BROKEN WHITE LINE WITH A 10' LINE SEGMENT AND A 30' GAP*
4 SBY	*4" SOLID YELLOW LINE* *4" BROKEN YELLOW LINE WITH A 10' LINE SEGMENT AND A 30' GAP*
4 DY	*4" SOLID DOUBLE YELLOW LINE*
8 SW	*8" SOLID WHITE LINE*
8 DTW	*8" DASHED WHITE LINE WITH 2' LINE SEGMENT AND A 4' GAP*
10 SW	*10" SOLID WHITE LINE*
10 DTW	*10" DASHED WHITE LINE WITH 2' LINE SEGMENT AND A 4' GAP*
12 SW	*12" SOLID WHITE LINE*
24 SW	*24" SOLID WHITE LINE*
12 SY	*12" SOLID YELLOW LINE*
12 SW	*12" SOLID WHITE LINE*
4 SBY	*EXISTING 4" SOLID YELLOW LINE* *4" BROKEN YELLOW LINE WITH A 10' LINE SEGMENT AND A 30' GAP*
4 DY	*EXISTING 4" SOLID DOUBLE YELLOW LINE*
8 SW	*EXISTING 8" SOLID WHITE LINE*
8 DTW	*EXISTING 8" DASHED WHITE LINE WITH 2' LINE SEGMENT AND A 4' GAP*
4 SW	*EXISTING 4" SOLID WHITE LINE*
4 BW	*EXISTING 4" BROKEN WHITE LINE WITH A 10' LINE SEGMENT AND A 30' GAP*
10 SW	*EXISTING 10" SOLID WHITE LINE*
10 DTW	*EXISTING 10" DASHED WHITE LINE WITH 2' LINE SEGMENT AND A 4' GAP*
12 SW	*EXISTING 12" SOLID WHITE LINE*
24 SW	*EXISTING 24" SOLID WHITE LINE*
	BLUE RAISED PAVEMENT MARKING

NOTE: STRIPING LEGEND IS ONLY FOR PAVEMENT MARKINGS WITHIN MCDOT'S JURISDICTION. ALL OTHER STRIPING SHALL BE INSTALLED BY THE CITY OF PHOENIX.

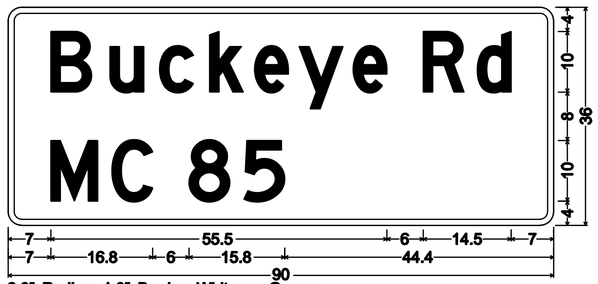
SIGN FORMATS



2.3" Radius, 1.0" Border, White on Green;
"83rd" D; "Ave" D;



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;

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Registered Professional Engineer (Civil)
34570
KIMBERLY A. CARROLL
Date Signed 6/15/18
ARIZONA, U.S.A.
Expires 03/31/2021

Kimley»Horn

SIGNING AND MARKING - NOTES

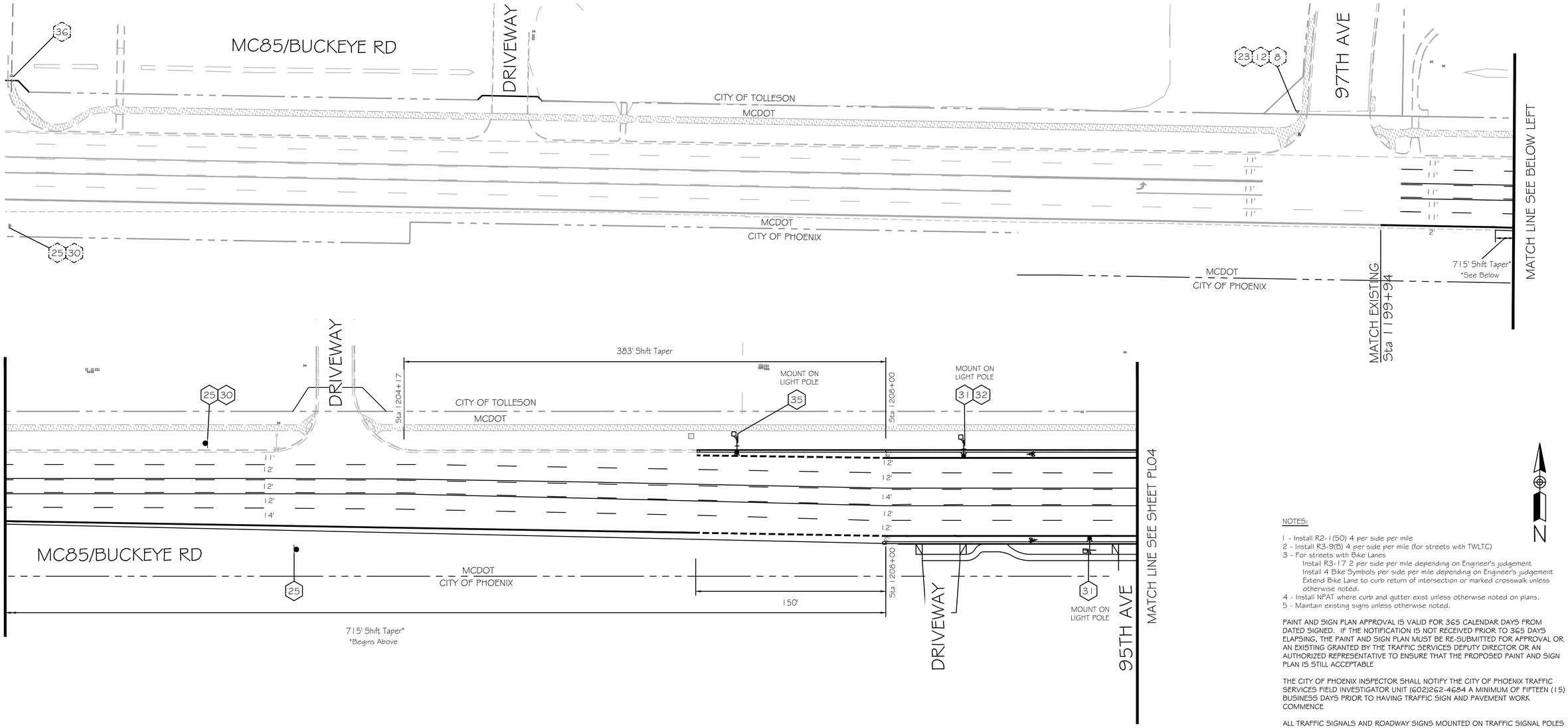
SHEET PL02 0F PL17

TRACS NO. _____

Plot Time: 8:07:54pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signing and Marking\aze1019-st-note01.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	204	303	

SIGNING AND MARKING PLAN



NOTES:

1 - Install R2-1(50) 4 per side per mile
2 - Install R3-9(B) 4 per side per mile (for streets with TWLTC)
3 - For streets wth Bike Lanes
    Install R3-17 2 per side per mile depending on Engineer's judgement
    Install 4 Bike Symbols per side per mile depending on Engineer's judgement
    Extend Bike Lane to curb return of intersection or marked crosswalk unless otherwise noted.
4 - Install NPAT where curb and gutter exist unless otherwise noted on plans.
5 - Maintain existing signs unless otherwise noted.

PAINT AND SIGN PLAN APPROVAL IS VALID FOR 365 CALENDAR DAYS FROM DATED SIGNED. IF THE NOTIFICATION IS NOT RECEIVED PRIOR TO 365 DAYS ELAPSING, THE PAINT AND SIGN PLAN MUST BE RE-SUBMITTED FOR APPROVAL OR AN EXISTING GRANTED BY THE TRAFFIC SERVICES DEPUTY DIRECTOR OR AN AUTHORIZED REPRESENTATIVE TO ENSURE THAT THE PROPOSED PAINT AND SIGN PLAN IS STILL ACCEPTABLE

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

8	12	23	25	30	31	32	35	36
97TH AVE	W. BUCKEYE ROAD	STOP	SPEED LIMIT 50	CENTER LANE ONLY	BIKE LANE	ENDS	MAY USE FULL LANE	DO NOT ENTER
G-5	G-5	R1-1	R2-1 30" X 36"	R3-9b 24" X 36"	R3-17 30" X 24"	R3-17b 30" X 12"	R4-11 30" X 30"	R5-1

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

APPROVED BY:

TRAFFIC SIGNAL ENGINEER	
STREET TRANSPORTATION DIR.	
ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR	
DEPUTY STREET TRANSPORTATION DIR.	

NO.	REVISION	BY	DATE
4			
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE 34570 KIMBERLY A. CARROLL Date Signed 6/15/18 ARIZONA, USA. Expires 03/31/2021

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SIGNING AND MARKING PLAN
STA 1189+00 TO STA 1210+00

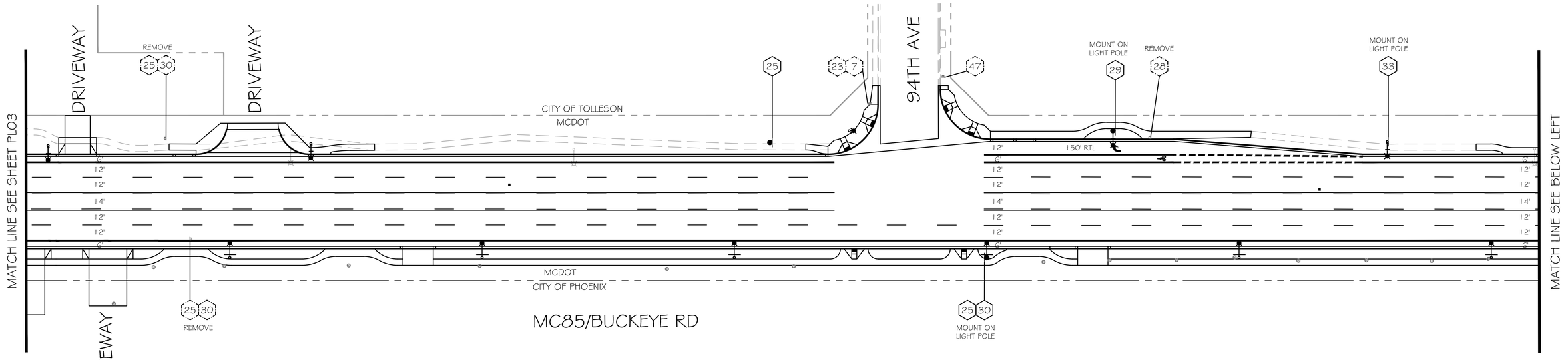
SHEET PL03 OF PL17

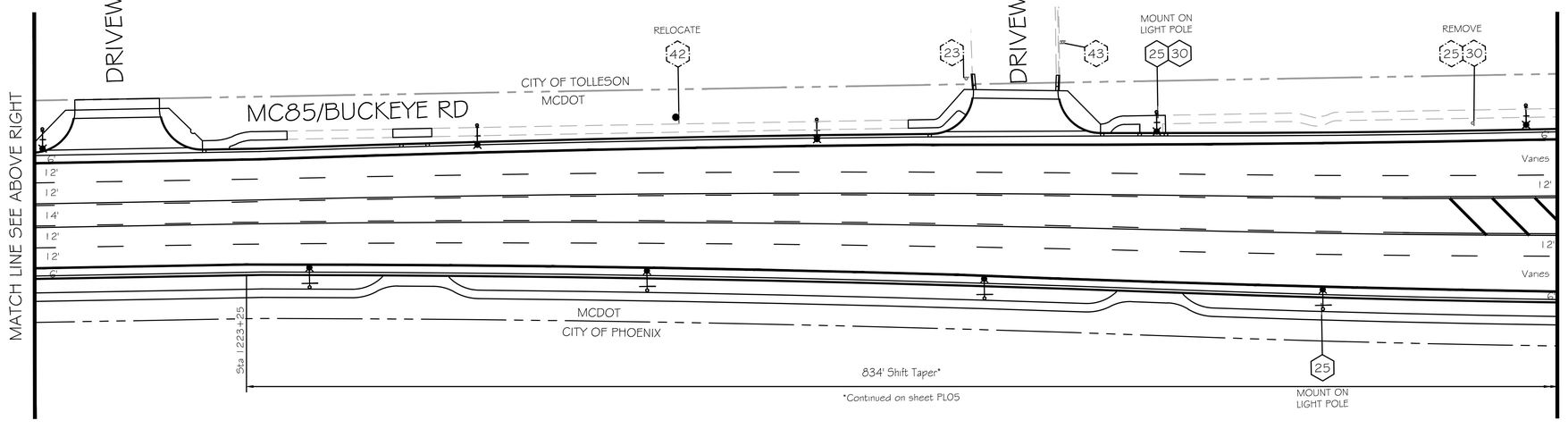
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Plot Time: 8:08:23pm
Plot Date: 6/14/2018
Plotted By: mark.flood
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	205	303	

SIGNING AND MARKING PLAN





N

NOTES:

1 - Install R2-1(50) 4 per side per mile
2 - Install R3-9(B) 4 per side per mile (for streets with TWLTC)
3 - For streets with Bike Lanes
    Install R3-17 2 per side per mile depending on Engineer's judgement
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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 MAINTAINED BY MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION UNLESS OTHERWISE NOTED

TRAFFIC SIGN LEGEND

7	23	25	28	29	30	33	42	43	47
94TH AVE	STOP	SPEED LIMIT 50	ONLY	RIGHT LANE MUST TURN RIGHT	CENTER LANE ONLY	BEGIN RIGHT TURN LANE YIELD TO BIKES	ADOPT A HIGHWAY	TIRE LANE	NO OUTLET
G-5	R1-1	R2-1 30" X 36"	R3-5(R)	R3-7(R) 30" X 30"	R3-9b 24" X 36"	R4-4 30" X 36"	Special	Special	R14-2

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

APPROVED BY:

TRAFFIC SIGNAL ENGINEER	
STREET TRANSPORTATION DIR.	
ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR	
DEPUTY STREET TRANSPORTATION DIR.	

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE 34570 KIMBERLY A. CARROLL Date Signed 6/15/18 ARIZONA, U.S.A. Expires 03/31/2021

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SIGNING AND MARKING PLAN
STA 1210+00 TO STA 1231+00

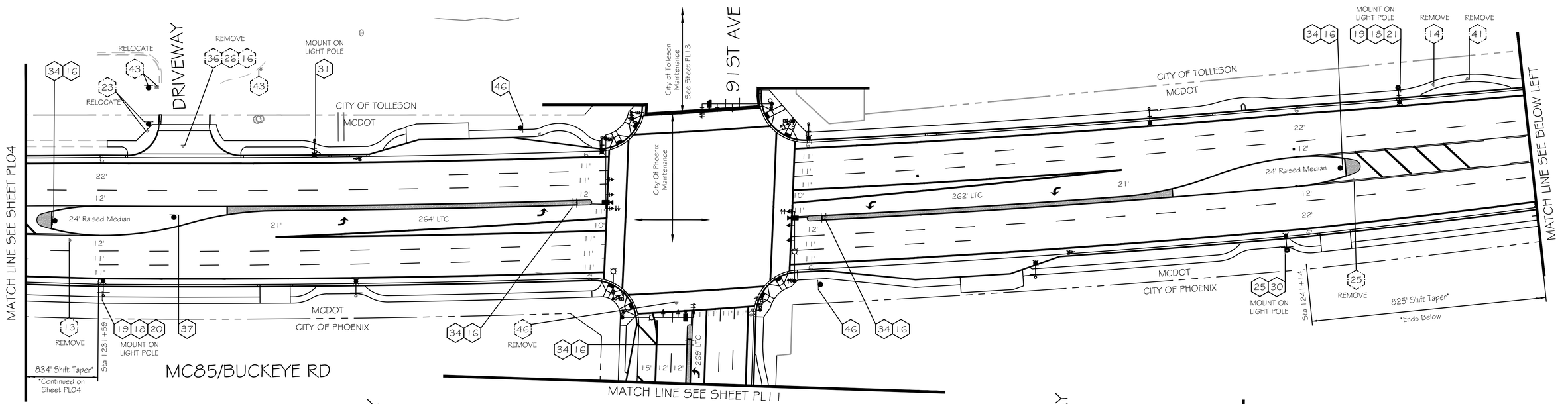
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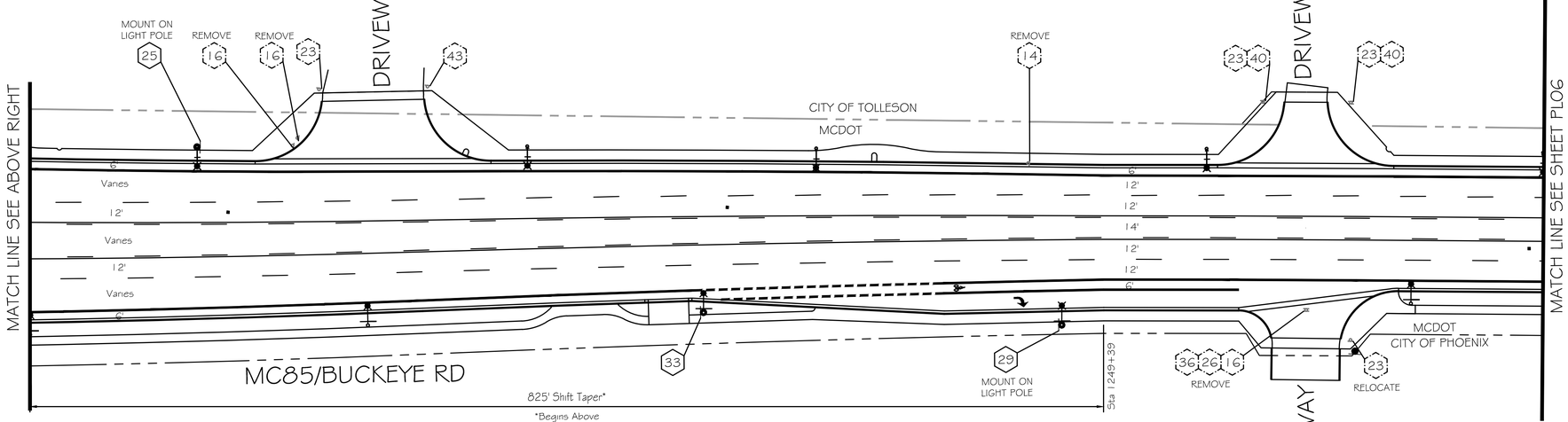
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Plot Date: 6/14/2018
Plotted By: mark.flood
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	206	303	

SIGNING AND MARKING PLAN





NOTES:

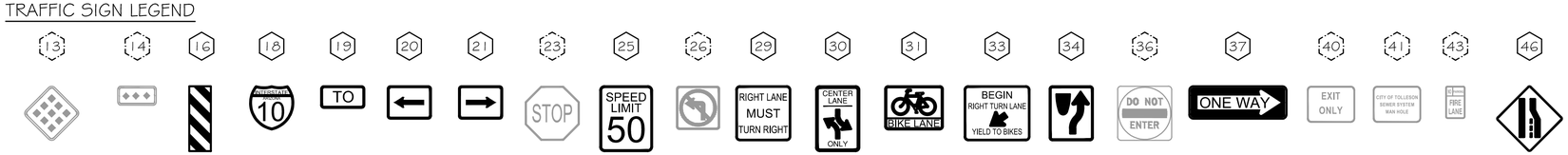
1 - Install R2-1(50) 4 per side per mile
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THE CITY OF PHOENIX INSPECTOR SHALL NOTIFY THE CITY OF PHOENIX TRAFFIC SERVICES FIELD INVESTIGATOR UNIT (602)262-4684 A MINIMUM OF FIFTEEN (15) BUSINESS DAYS PRIOR TO HAVING TRAFFIC SIGN AND PAVEMENT WORK COMMENCE

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TRAFFIC SIGN LEGEND



TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

APPROVED BY:

TRAFFIC SIGNAL ENGINEER

STREET TRANSPORTATION DIR.

ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR

DEPUTY STREET TRANSPORTATION DIR.

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) 34570 KIMBERLY A. CARROLL State Signed 6/15/18 ARIZONA, U.S.A. Expires 03/31/2021

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SIGNING AND MARKING PLAN
STA 1231+00 TO STA 1252+00

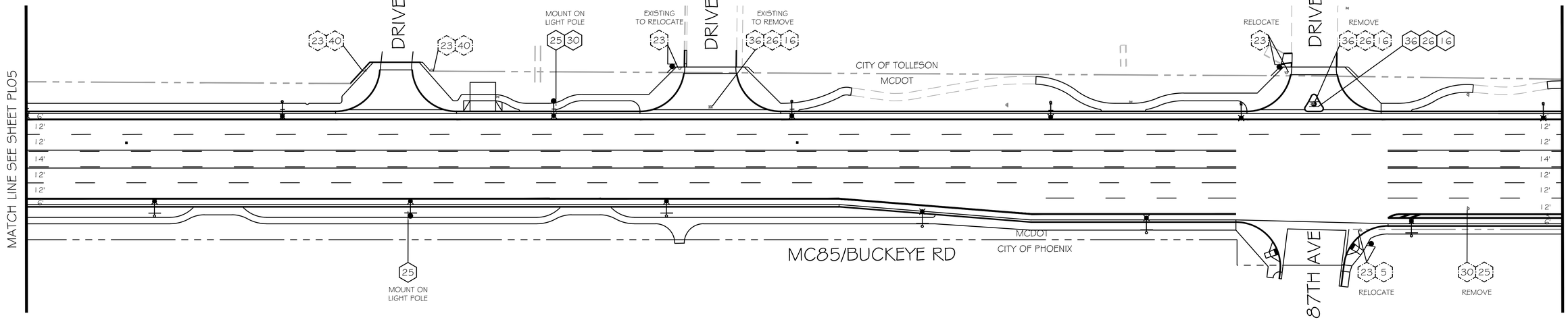
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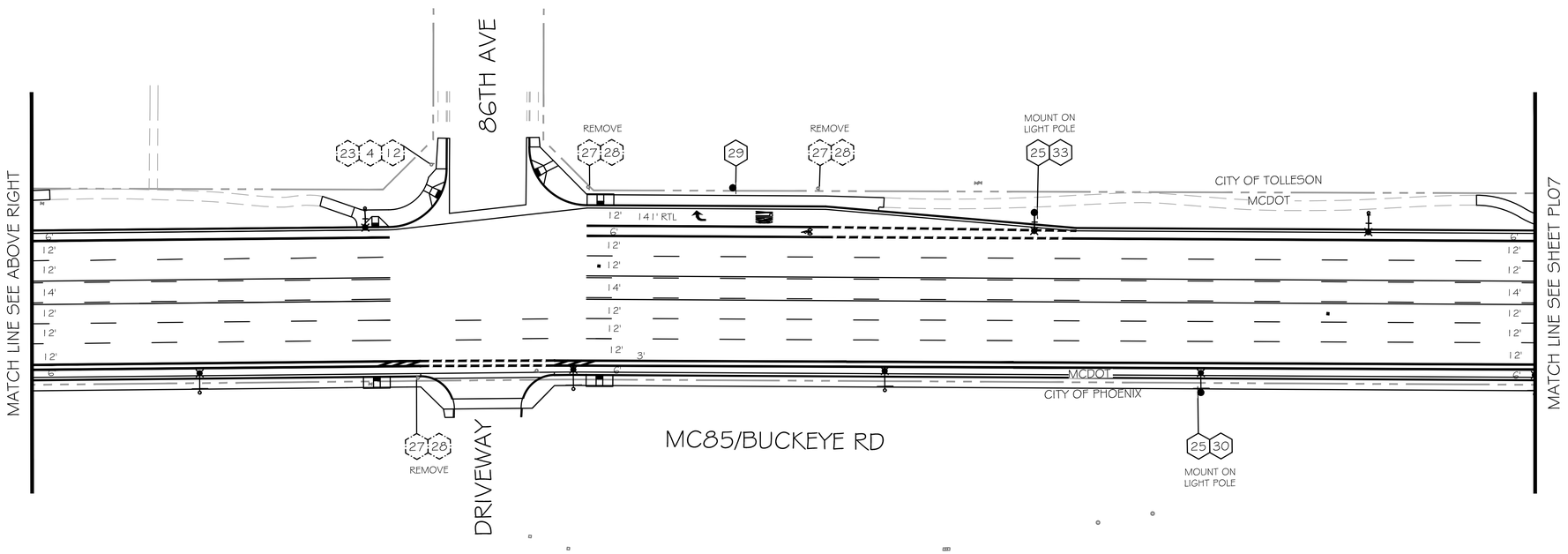
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Plot Date: 6/14/2018
Plot Time: 8:09:23pm
Plotted By: mark.flood
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	207	303	

SIGNING AND MARKING PLAN





N

NOTES:

1 - Install R2-1(50) 4 per side per mile
2 - Install R3-9(B) 4 per side per mile (for streets with TWLTC)
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TRAFFIC SIGN LEGEND

4	5	12	16	23	25	26	27	28	29	30	33	36	40
86TH AVE	87TH AVE	W. BUCKEYE ROAD		STOP	SPEED LIMIT 50		RIGHT LANE	ONLY	RIGHT LANE MUST TURN RIGHT	CENTER LANE ONLY	BEGIN RIGHT TURN LANE YIELD TO BIKES	DO NOT ENTER	EXIT ONLY
G-5	G-5	G-5	OM-3(R) 12" X 36"	R1-1	R2-1 30" X 36"	R3-2 24" X 24"	R3-5fP	R3-5(R)	R3-7(R) 30" X 30"	R3-9b 24" X 36"	R4-4 30" X 36"	R5-1 30" X 30"	Special

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

APPROVED BY:

TRAFFIC SIGNAL ENGINEER

STREET TRANSPORTATION DIR.

ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR

DEPUTY STREET TRANSPORTATION DIR.

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) 34570 KIMBERLY A. CARROLL Date Signed 6/15/18 ARIZONA, U.S.A. Expires 03/31/2021

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SIGNING AND MARKING PLAN
STA 1252+00 TO STA 1273+00

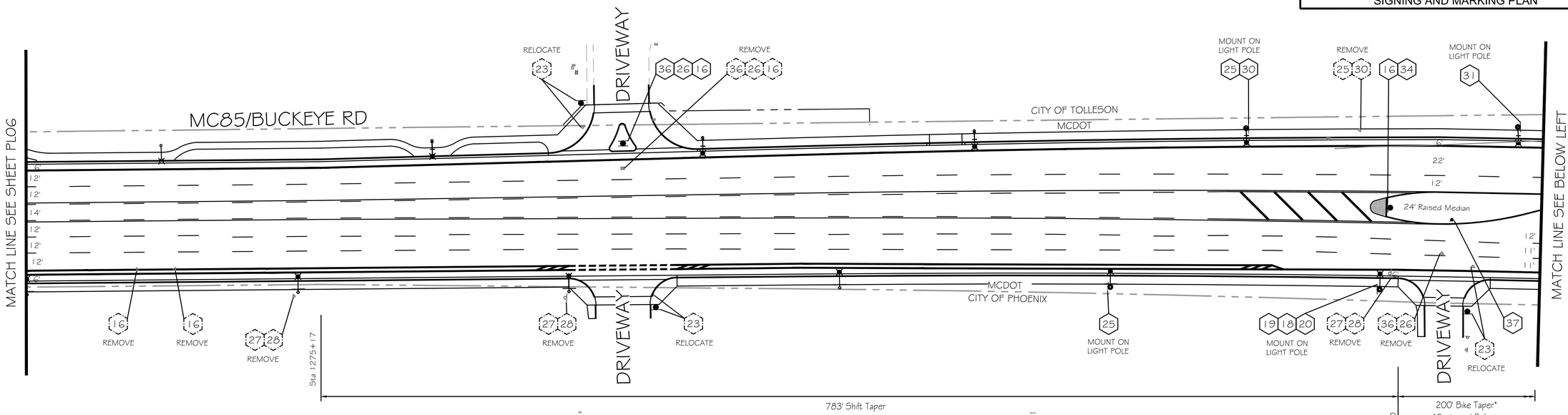
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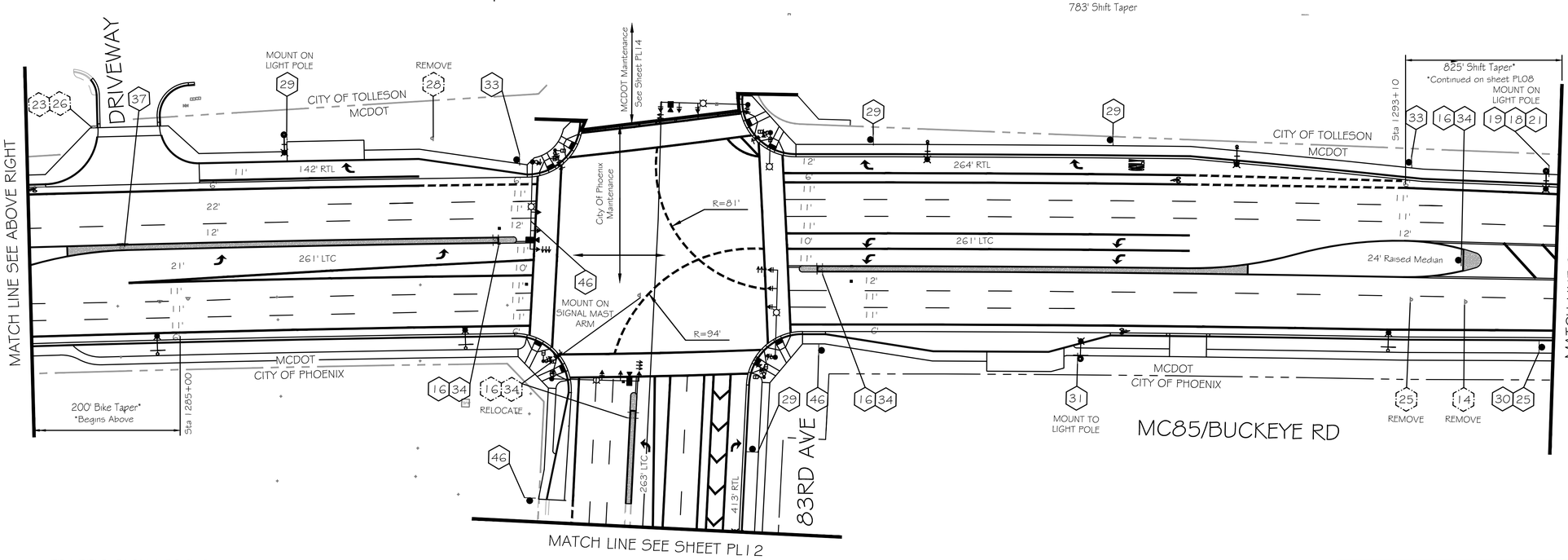
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Plot Time: 9:53:41pm
Plot Date: 6/14/2018
Plotted By: mark.flood
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	208	303	

SIGNING AND MARKING PLAN





NOTES:

1 - Install R2-1(50) 4 per side per mile
2 - Install R3-9(B) 4 per side per mile (for streets with TWLTC)
3 - For streets with Bike Lanes
    Install R3-17 2 per side per mile depending on Engineer's judgement
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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

14	16	18	19	20	21	23	25	26	27	28	29	30	31	33	34	36	37	46
OM2-1	OM-3(R) 12" X 36"	M1-1 24" X 24"	M4-5 24" X 12"	M6-1L 24" X 18"	M6-1R 24" X 18"	R1-1	R2-1 30" X 36"	R3-2 24" X 24"	R3-5fP	R3-5(R)	R3-7(R) 30" X 30"	R3-9b 24" X 36"	R3-17 30" X 24"	R4-4 30" X 36"	R4-7 24" x 30"	R5-1 30" X 30"	R6-1R 54" X18"	W4-2(L) 36" X 36"

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

APPROVED BY:

TRAFFIC SIGNAL ENGINEER

STREET TRANSPORTATION DIR.

ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR

DEPUTY STREET TRANSPORTATION DIR.

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) — 34570 — KIMBERLY A. CARROLL — Date Signed 6/15/18 — ARIZONA, U.S.A. — Expires 03/31/2021

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SIGNING AND MARKING PLAN
STA 1273+00 TO STA 1294+00

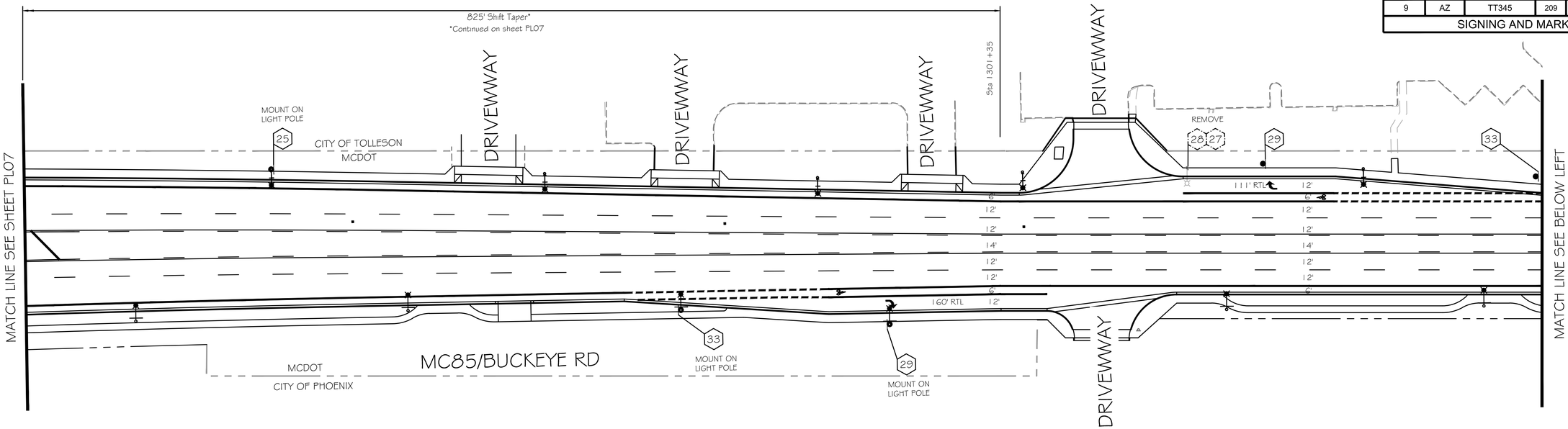
SHEET PL07 OF PL17

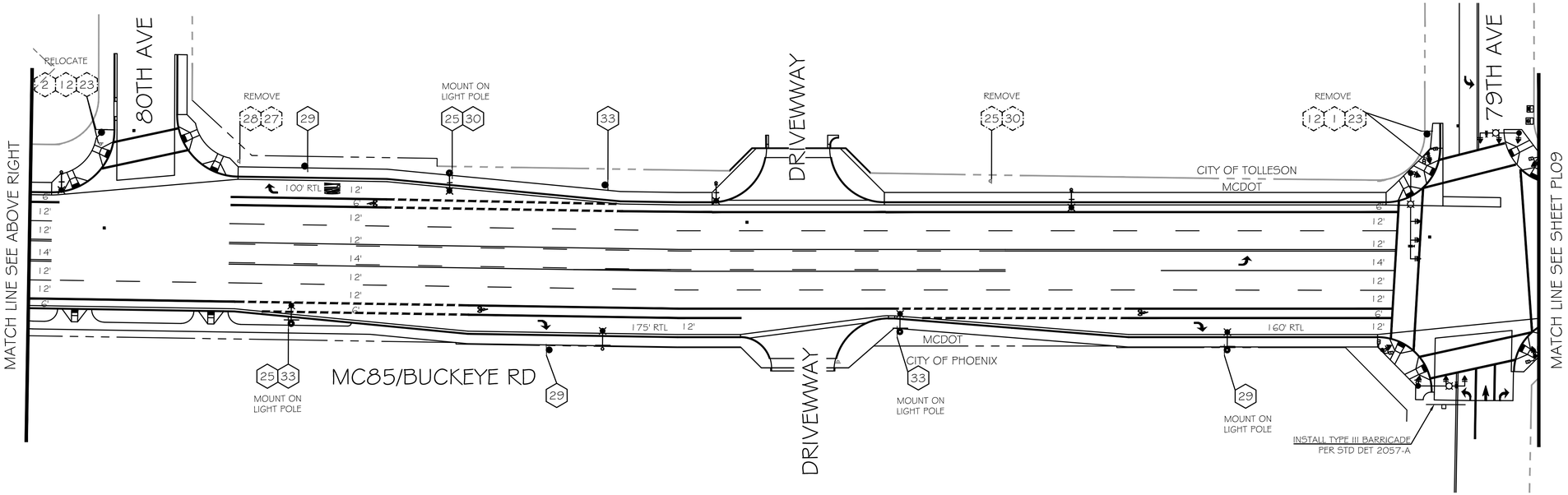
TRACS NO. _____

Plot Date: 6/14/2018 Plot Time: 8:10:23pm
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signing and Marking\aze1019-st-pl08.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	209	303	

SIGNING AND MARKING PLAN





N

NOTES:

1 - Install R2-1(50) 4 per side per mile
2 - Install R3-9(B) 4 per side per mile (for streets with TWLTC)
3 - For streets with Bike Lanes
    Install R3-17 2 per side per mile depending on Engineer's judgement
    Install 4 Bike Symbols per side per mile depending on Engineer's judgement
    Extend Bike Lane to curb return of intersection or marked crosswalk unless otherwise noted.
4 - Install NPAT where curb and gutter exist unless otherwise noted on plans.
5 - Maintain existing signs unless otherwise noted.

PAINT AND SIGN PLAN APPROVAL IS VALID FOR 365 CALENDAR DAYS FROM DATED SIGNED. IF THE NOTIFICATION IS NOT RECEIVED PRIOR TO 365 DAYS ELAPSING, THE PAINT AND SIGN PLAN MUST BE RE-SUBMITTED FOR APPROVAL OR AN EXISTING GRANTED BY THE TRAFFIC SERVICES DEPUTY DIRECTOR OR AN AUTHORIZED REPRESENTATIVE TO ENSURE THAT THE PROPOSED PAINT AND SIGN PLAN IS STILL ACCEPTABLE

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

1	2	12	23	25	27	28	29	30	33
79TH AVE	80TH AVE	W. BUCKEYE ROAD	STOP	SPEED LIMIT 50	RIGHT LANE	ONLY	RIGHT LANE MUST TURN RIGHT	CENTER LANE ONLY	BEGIN RIGHT TURN LANE YIELD TO BIKES
G-5	G-5	G-5	R1-1	R2-1 30" X 36"	R3-5fP	R3-5(R)	R3-7(R) 30" X 30"	R3-9b 24" X 36"	R4-4 30" X 36"

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

APPROVED BY:

TRAFFIC SIGNAL ENGINEER	
STREET TRANSPORTATION DIR.	
ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR	
DEPUTY STREET TRANSPORTATION DIR.	

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE 34570 KIMBERLY A. CARROLL Date Signed 6/15/18 ARIZONA, U.S.A. Expires 03/31/2021

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SIGNING AND MARKING PLAN
STA 1294+00 TO STA 1315+00

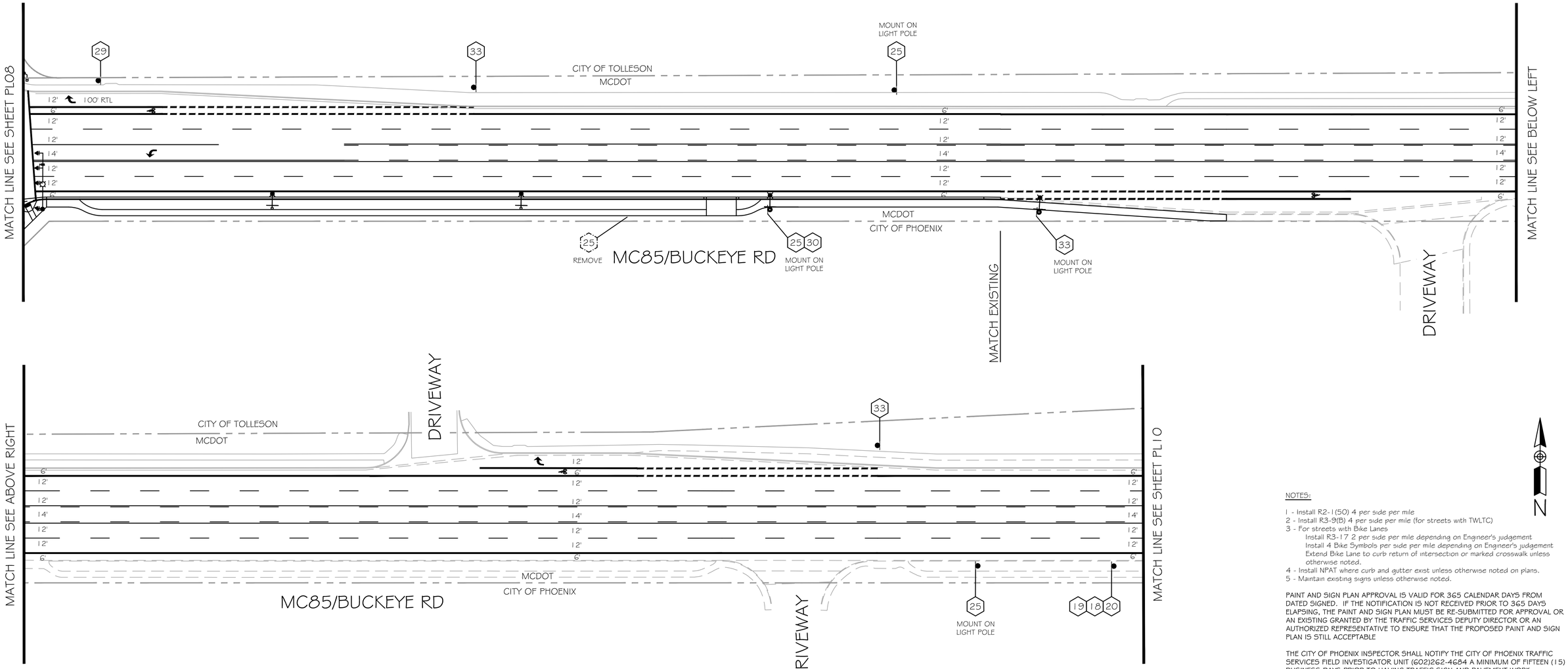
SHEET PL08 OF PL17

TRACS NO. _____

Plot Time: 7:54:03am
Plot Date: 6/15/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signing and Marking\aze1019-st-pl09.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	210	303	

SIGNING AND MARKING PLAN



TRAFFIC SIGN LEGEND

18	19	20	25	29	30	33
INTERSTATE 10	TO		SPEED LIMIT 50	RIGHT LANE MUST TURN RIGHT	CENTER LANE ONLY	BEGIN RIGHT TURN LANE YIELD TO BIKES
M1-1 24" X 24"	M4-5 24" X 12"	M6-1L 24" X 18"	R2-1 30" X 36"	R3-7(R) 30" X 30"	R3-9b 24" X 36"	R4-4 30" X 36"

NOTES:

1 - Install R2-1(50) 4 per side per mile
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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			

APPROVED BY:

TRAFFIC SIGNAL ENGINEER

STREET TRANSPORTATION DIR.

ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR

DEPUTY STREET TRANSPORTATION DIR.

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) Certificate No. 34570 KIMBERLY A. CARROLL Date Signed 6/15/18 ARIZONA, U.S.A. Expires 03/31/2021

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SIGNING AND MARKING PLAN
STA 1315+00 TO STA 1336+00

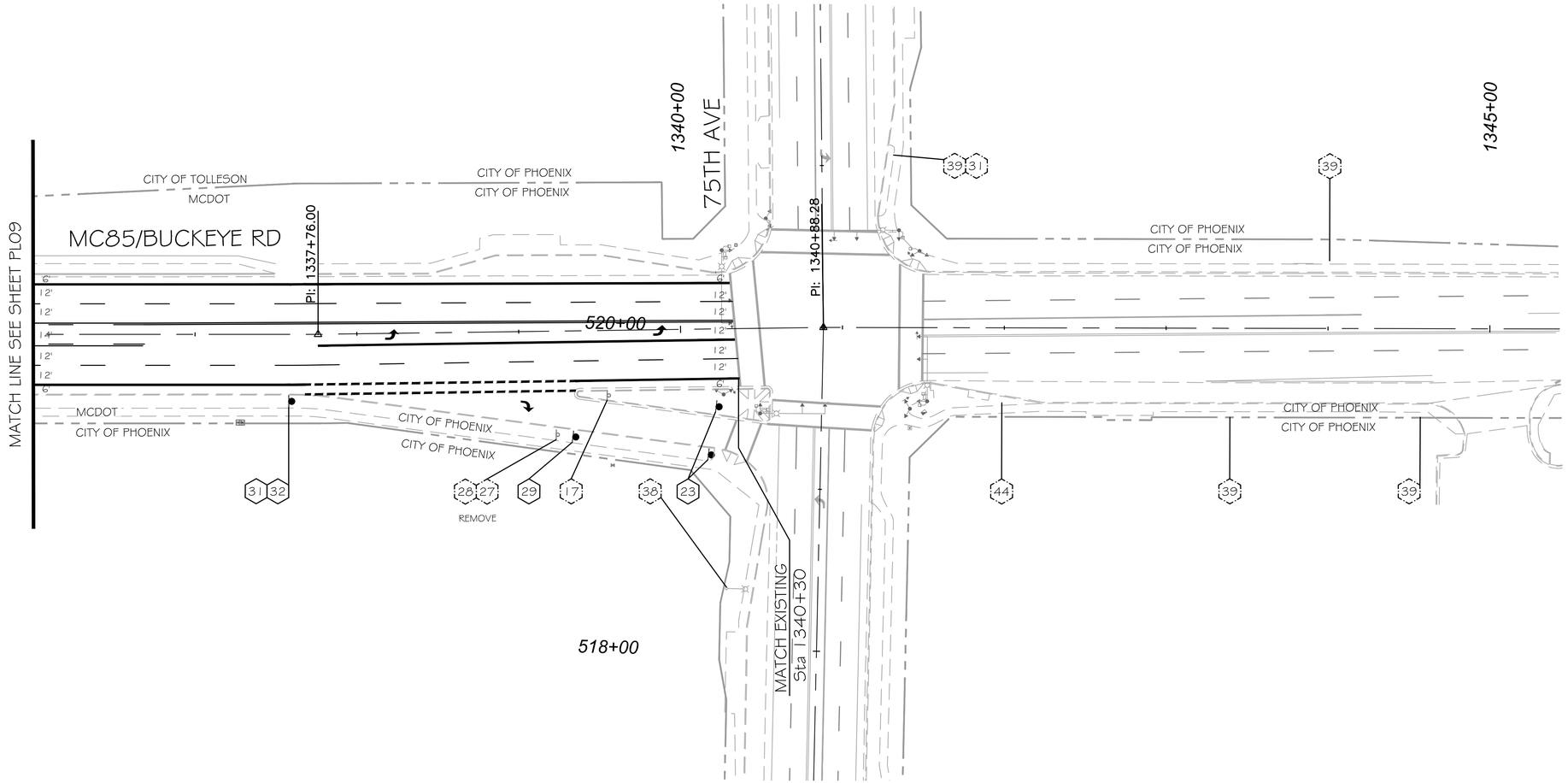
SHEET PL09 OF PL17

TRACS NO. _____

Plot Time: 8:11:12pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signing and Marking\aze1019-st-pl10.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	211	303	

SIGNING AND MARKING PLAN



N

NOTES:

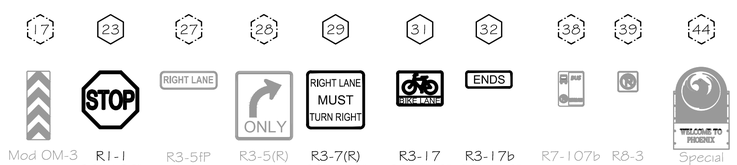
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TRAFFIC SIGN LEGEND



Mod OM-3	R1-1 36" X 36"	R3-5fp	R3-5(R)	R3-7(R) 30" X 30"	R3-17 30" X 12"	R3-17b 30" X 12"	R7-107b	R8-3	Special

APPROVED BY:

TRAFFIC SIGNAL ENGINEER	
STREET TRANSPORTATION DIR.	
ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR	
DEPUTY STREET TRANSPORTATION DIR.	

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Registered Professional Engineer (Civil) CERTIFICATE NO. 34570 KIMBERLY A. CARROLL Date Signed 6.15.18 ARIZONA, U.S.A. Expires 03/31/2021

Kimley»Horn

SIGNING AND MARKING PLAN

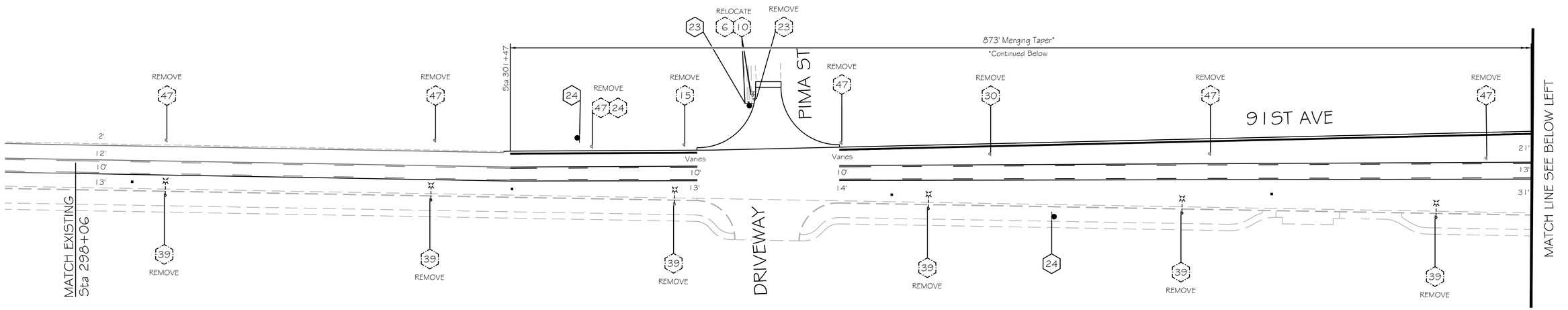
SHEET PL10 OF PL17

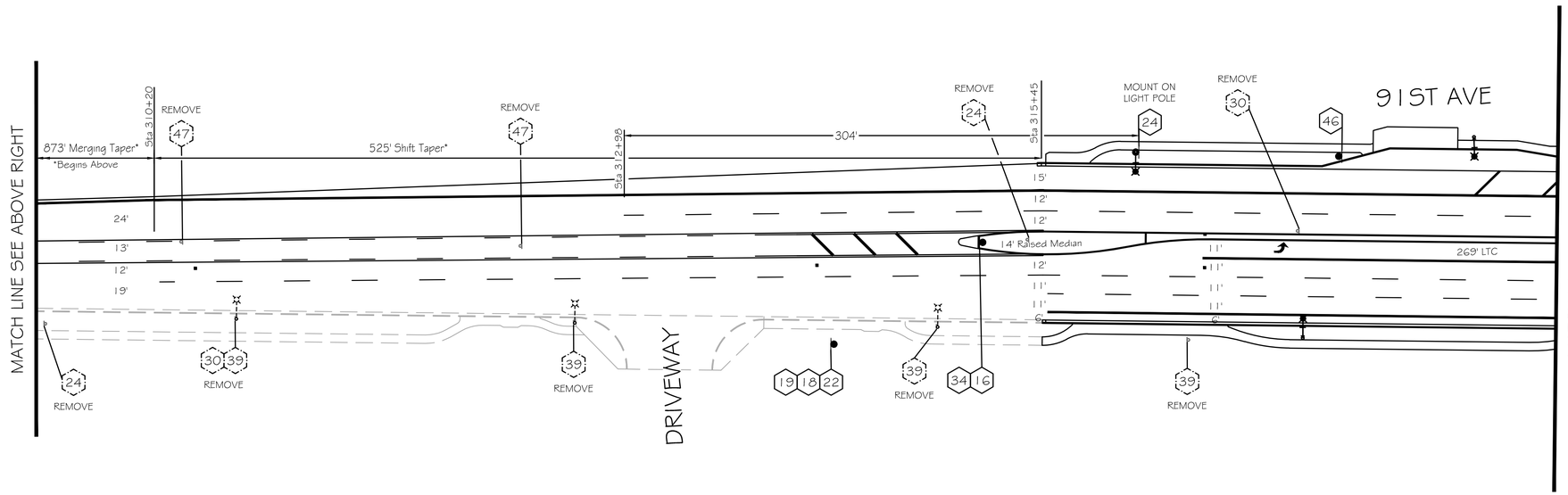
TRACS NO. _____

Plot Time: 8:11:36pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signing and Marking\aze1019-st-pl11.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	212	303	

SIGNING AND MARKING PLAN





NOTES:

This plan sheet follows City of Phoenix Signing and Pavement Marking Standards.

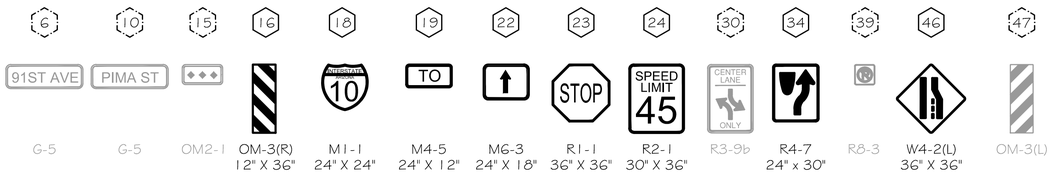
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TRAFFIC SIGN LEGEND



G-5	G-5	OM2-1	OM-3(R) 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"	R3-9b	R4-7 24" x 30"	R8-3	W4-2(L) 36" X 36"	OM-3(L)

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

APPROVED BY:

TRAFFIC SIGNAL ENGINEER

STREET TRANSPORTATION DIR.

ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR

DEPUTY STREET TRANSPORTATION DIR.

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) Certificate No. 34570 KIMBERLY A. CARROLL Date Signed 6/15/18 ARIZONA, USA. Expires 03/31/2021

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SIGNING AND MARKING PLAN
STA 298+00 TO STA 318+50

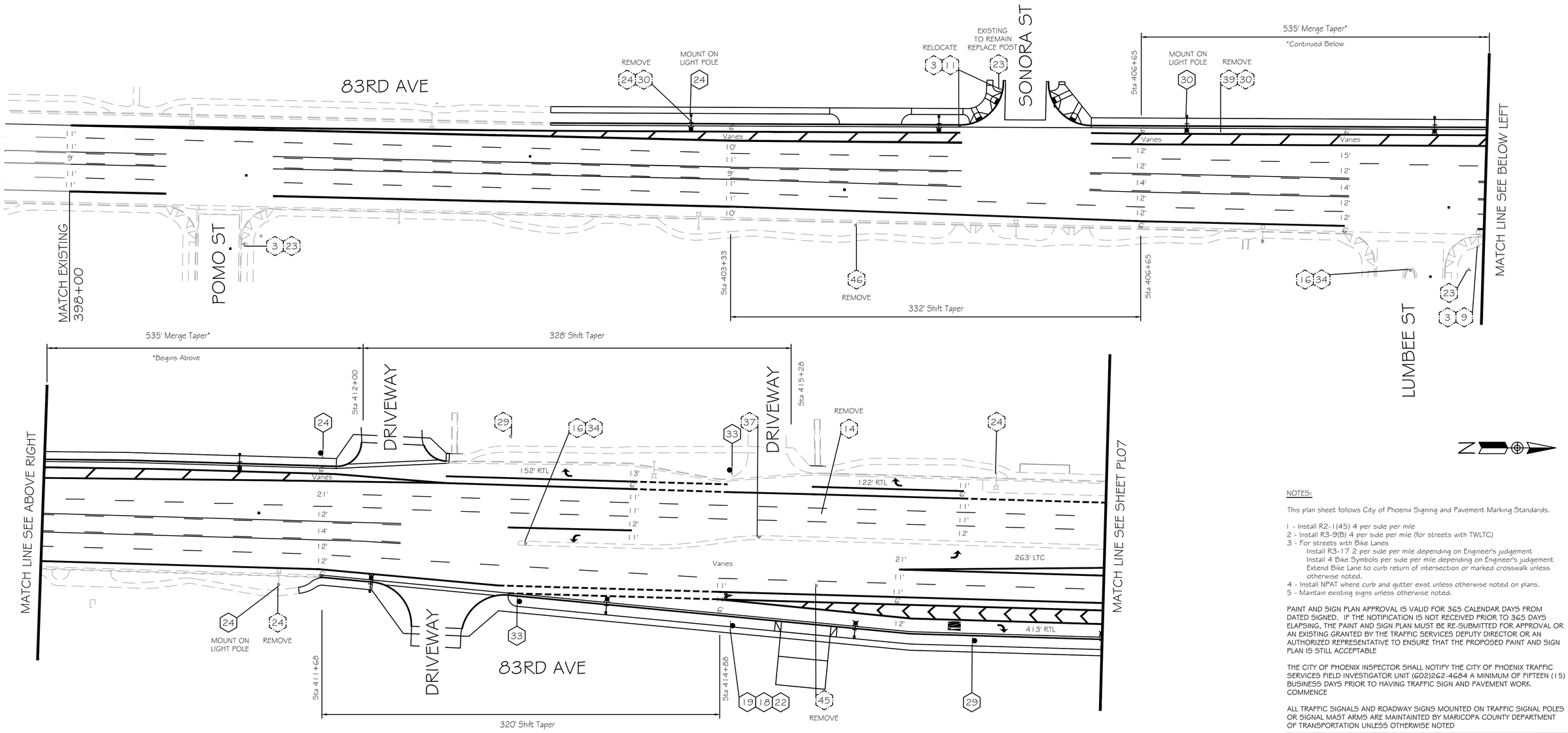
SHEET PL110F PL17

TRACS NO. _____

Plot Time: 7:52:19am
Plot Date: 6/15/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signing and Marking\aze1019-st-pl17.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	213	303	

SIGNING AND MARKING PLAN



TRAFFIC SIGN LEGEND

3	9	11	14	16	18	19	22	23	24	29	30	33	34	37	39	45	46
83RD AVE	LUMBEE ST	SONORA ST			INTERSTATE 10	TO		STOP	SPEED LIMIT 45	RIGHT LANE MUST TURN RIGHT	CENTER LANE ONLY	BEGIN RIGHT TURN LANE YIELD TO BIKES		ONE WAY			
G-5	G-5	G-5	OM2-1	OM-3(R)	M1-1 24" X 24"	M4-5 24" X 12"	M6-3 24" X 18"	R1-1	R2-1 30" X 36"	R3-7(R) 30" X 30"	R3-9b 24" X 36"	R4-4 30" X 36"	R2-1	R6-1R	R8-3	W3-3	W4-2(L)

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

NOTES:

This plan sheet follows City of Phoenix Signing and Pavement Marking Standards.

1 - Install R2-1(45) 4 per side per mile
2 - Install R3-9(B) 4 per side per mile (for streets with TWLTC)
3 - For streets with Bike Lanes
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NO.	REVISION	BY	DATE
3			
2			
1			

APPROVED BY:

TRAFFIC SIGNAL ENGINEER

STREET TRANSPORTATION DIR.

ACTING STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR

DEPUTY STREET TRANSPORTATION DIR.

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 34570 KIMBERLY A. CARROLL Date Signed 6.15.18 ARIZONA, U.S.A. Expires 03/31/2021

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SIGNING AND MARKING PLAN
STA 400+00 TO STA 418+00

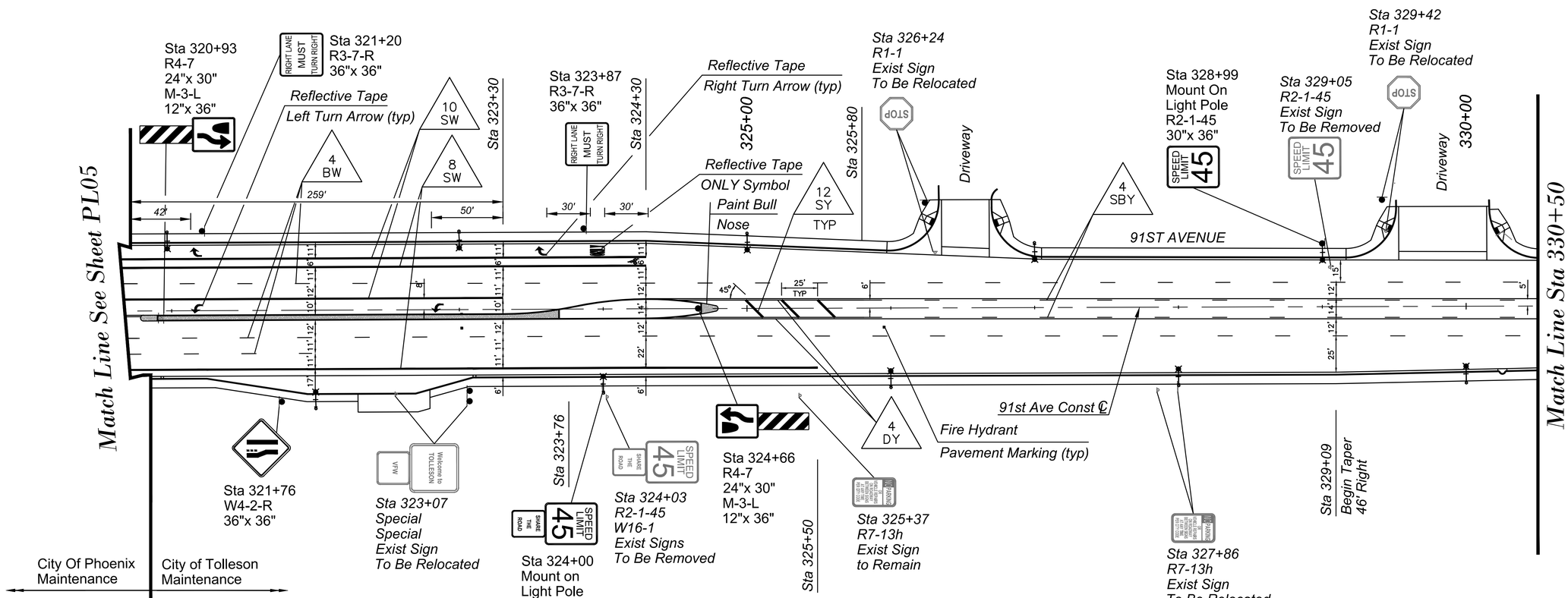
SHEET PL12 OF PL17

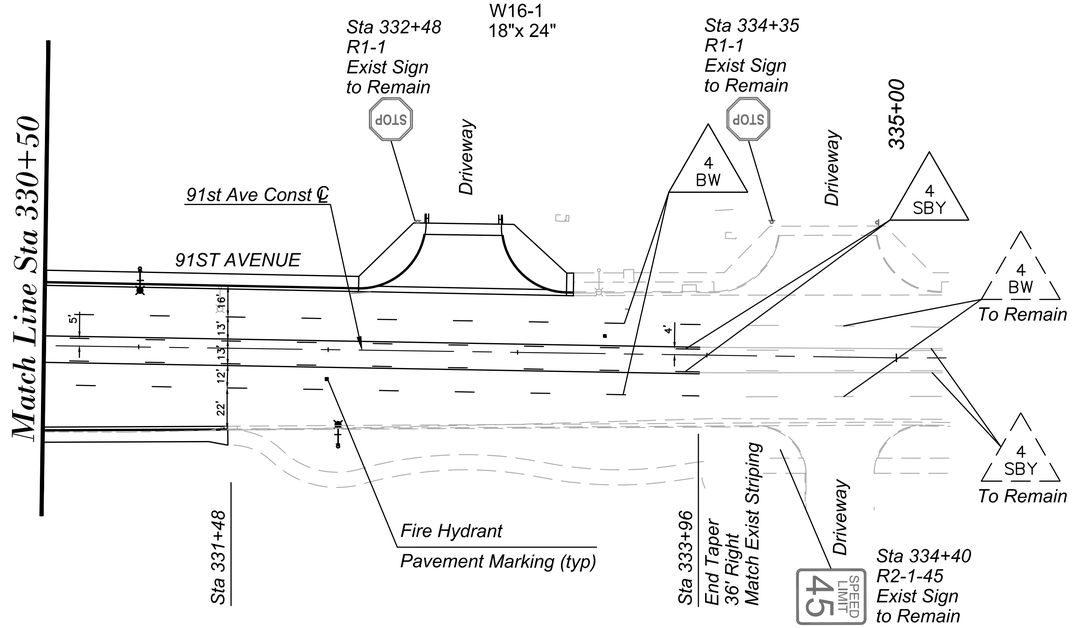
TRACS NO. _____

Plot Date: 6/14/2018
Plot Time: 8:12:36pm
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signing and Marking\aze1019-st-pl19.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	214	303	

SIGNING AND MARKING PLAN





NO.	REVISION	BY	DATE
4			
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Registered Professional Engineer (Civil) CERTIFICATE NO. 34570 KIMBERLY A. CARROLL Date Signed 6/15/18 ARIZONA, U.S.A. Expires 03/31/2021

Kimley»Horn

SIGNING AND MARKING PLAN
STA 321+50 TO STA 335+00

SHEET PL13 OF PL17

TRACS NO. _____

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

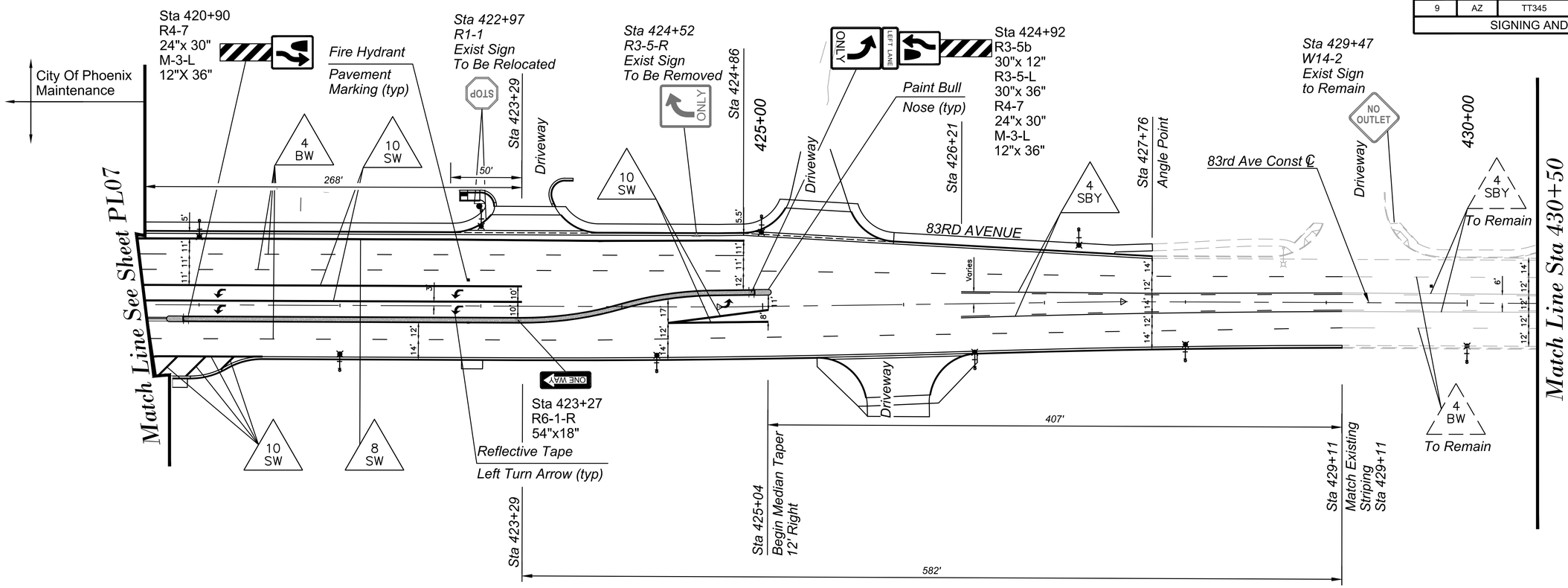
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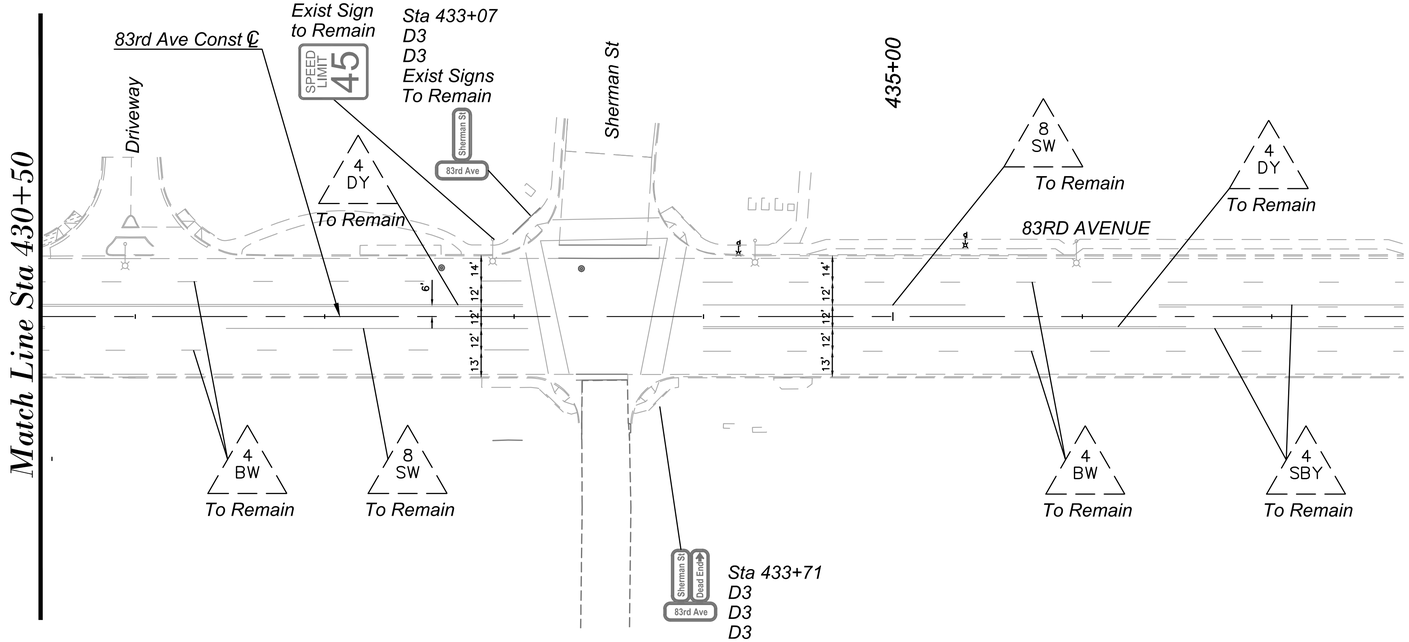
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SCALE IN FEET

Plot Time: 8:12:58pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signing and Marking\aze1019-st-pl18.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	215	303	

SIGNING AND MARKING PLAN





N

NOTE:

This plan sheet follows MCDOT Signing and Pavement Marking Standards.

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

SCALE: Hor: 1"=40'

40 0 40 80

SCALE IN FEET

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
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	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SIGNING AND MARKING PLAN
STA 421+50 TO STA 438+00

SHEET PL14 OF PL17

TRACS NO. _____

Plot Time: 8:13:30pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signing and Marking\aze1019-st-pl20.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																			
SB 319+03	D3-2e			X				BUCKEYE RD MC 85											See Sheet SG01
NB 320+73	D3-2e			X				BUCKEYE RD MC 85											See Sheet SG01
WB 1235+57	D3-2d			X				91st Ave											See Sheet SG01
WB 1235+64	R10-3eL	X			X			Push Button for Crossing Left	6	12									Mount on Signal Pole B, Sheet SG03
	D3-2d	X			X			91st Ave	78	18									Mount on Signal Pole B, Sheet SG03
EB 1235+65	R10-3eR	X			X			Push Button for Crossing Right	6	12									Mount on Signal Pole H, Sheet SG03
EB 1235+72	R10-3eL	X			X			Push Button for Crossing Left	6	12									Mount on Signal Pole G, Sheet SG03
	D-2e	X			X			Buckeye Rd MC 85	90	36									Mount on Signal Pole G, Sheet SG03
WB 1235+85	R10-3eR	X			X			Push Button for Crossing Right	6	12									Mount on Signal Pole A, Sheet SG03
EB 1236+81	R10-3eR	X			X			Push Button for Crossing Right	6	12									Mount on Signal Pole F, Sheet SG03
EB 1237+09	R10-3eL	X			X			Push Button for Crossing Left	6	12									Mount on Signal Pole E, Sheet SG03
	D3-2d	X			X			91st Ave	78	18									Mount on Signal Pole E, Sheet SG03
WB 1237+15	R10-3eR	X			X			Push Button for Crossing Right	6	12									Mount on Signal Pole D, Sheet SG03
EB 1237+12	D3-2d			X				91st Ave											See Sheet SG01
WB 1237+98	R10-3eL	X			X			Push Button for Crossing Left	6	12									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 & 83RD AVENUE																			
SB 418+93	D3-2e			X				MC 85											See Sheet SG04
NB 420+73	D3-2e			X				MC 85											See Sheet SG04
WB 1287+40	D3-2d			X				83rd Ave											See Sheet SG04
WB 1287+45	R10-3eL	X			X			Push Button for Crossing Left	6	12									Mount on Signal Pole B, Sheet SG06
	D3-2d	X			X			83rd Ave	78	18									Mount on Signal Pole B, Sheet SG06
EB 1287+50	R10-3eR	X			X			Push Button for Crossing Right	6	12									Mount on Signal Pole H, Sheet SG06
EB 1287+56	R10-3eL	X			X			Push Button for Crossing Left	6	12									Mount on Signal Pole G, Sheet SG06
	D3-2e	X			X			Buckeye Rd MC 85	90	36									Mount on Signal Pole G, Sheet SG06
WB 1287+60	R10-3eR	X			X			Push Button for Crossing Right	6	12									Mount on Signal Pole A, Sheet SG06
WB 1288+84	R10-3eL	X			X			Push Button for Crossing Left	6	12									Mount on Signal Pole C, Sheet SG06
	D3-2e	X			X			Buckeye Rd MC 85	90	36									Mount on Signal Pole C, Sheet SG06
EB 1288+94	R10-3eR	X			X			Push Button for Crossing Right	6	12									Mount on Signal Pole F, Sheet SG06
EB 1289+02	R10-3eL	X			X			Push Button for Crossing Left	6	12									Mount on Signal Pole E, Sheet SG06
	D3-2d	X			X			83rd Ave	78	18									Mount on Signal Pole E, Sheet SG06
EB 1289+16	D3-2d			X				83rd Ave											See Sheet SG04
WB 1289+99	R10-3eR	X			X			Push Button for Crossing Right	6	12									Mount on Signal Pole D, Sheet SG06

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	216	303	

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.*

= *Metro Street Name signs and Pedestrian Push Button signs are furnished by MCDOT*

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) Certificate No. 34570 KIMBERLY A. CARROLL Date Signed 6/15/18 ARIZONA, U.S.A. Expires 03/31/2021

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SIGN SUMMARY

SHEET PL15 0F PL17

TRACS NO. _____

Plot Time: 8:13:42pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signing and Marking\az1019-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)	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
91ST AVENUE - MC85 TO STA 334+50																			
NB 320+93	R4-7	X					2	Keep Right	24	30	5.00		1	11			1		
	M-3-L	X						Type 3 Object Marker (Left)	12	36									
SB 321+20	R3-7-R	X				10		Right Lane Must Turn Right	36	36	9.00		1	11			1		
NB 321+76	W4-2-R	X					10	Lane Ends	36	36	9.00		1	12			1		
NB 323+07	Special		X		X		10	Welcome to Tolleson					2	24			2		Relocate on New Posts
	Special		X					Veterans of Foreign Wars											
SB 323+87	R3-7-R	X				10		Right Lane Must Turn Right	36	36	9.00		1	11			1		
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		
	M-3-L	X						Type 3 Object Marker (Left)	12	36									
NB 325+37	R7-13h				X			No Parking or Vehicle Repairs..											Exist to Remain
SB 326+24	R1-1		X		X	10		Stop					1	12			1		Relocate on New Post
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
SB 329+05	R2-1-45			X				Speed Limit 45											
SB 329+42	R1-1		X		X	10		Stop					1	12			1		Relocate on New Post
SB 332+48	R1-1				X			Stop											Exist to Remain
SB 334+35	R1-1				X			Stop											Exist to Remain
NB 334+40	R2-1-45				X			Speed Limit 45											Exist to Remain
											55.00		9	104			9		SUB-TOTAL

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	217	303	

SIGNING AND MARKING PLAN

MCDOT Signing General Notes:

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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.*
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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 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CARROLL, KIMBERLY A. 34570 Date Signed 6/15/18 ARIZONA, USA. Expires 03/31/2021

	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SIGN SUMMARY - 91ST AVENUE

SHEET PL16 0F PL17

TRACS NO. _____

Plot Time: 8:13:50pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\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
83RD AVENUE - MC85/BUCKEYE RD TO SHERMAN ST																			
SB 420+90	R4-7	X				2		Keep Right	24	30	5.00		1	11			1		
	M-3-L	X						Type 3 Object Marker (Left)	12	36									
SB 422+97	R1-1		X		X	12		Stop					1	12			1		Relocate on New Post
NB 423+27	R6-1-R	X				2		One Way	54	18	6.75		1	10			1		
SB 424+52	R3-5-R			X				Right Arrow Only											
NB 424+92	R3-5b	X			X	2		Left Lane	30	12	2.50		1	13			1		Back to Back
	R3-5-L	X						Left Arrow Only	30	36	7.50								
	R4-7	X			X			Keep Right	24	30	5.00								Back to Back
	M-3-L	X						Type 3 Object Marker (Left)	12	36									
SB 429+47	W14-2				X			No Outlet											Exist to Remain
SB 432+89	R2-1-45				X			Speed Limit 45											Exist to Remain
SB 433+07	D3				X			Sherman St											Exist to Remain
	D3				X			83rd Ave											Exist to Remain
NB 433+71	D3				X			83rd Ave											Exist to Remain
	D3				X			Sherman St											Exist to Remain
	D3				X			Dead End											Exist to Remain
											55.75		7	84			7		SUB-TOTAL
											110.75		16	188			16		TOTAL

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	218	303	

SIGNING AND MARKING PLAN

MCDOT Signing General Notes:

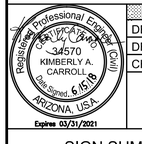
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NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345



	BY	DATE
DESIGNED	K. Carroll	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SIGN SUMMARY - 83RD AVENUE

SHEET
PL17 0F PL17

TRACS NO. _____

Plot Time: 9:46:21pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signing and Marking\aze1019-st-ss03.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	219	303	

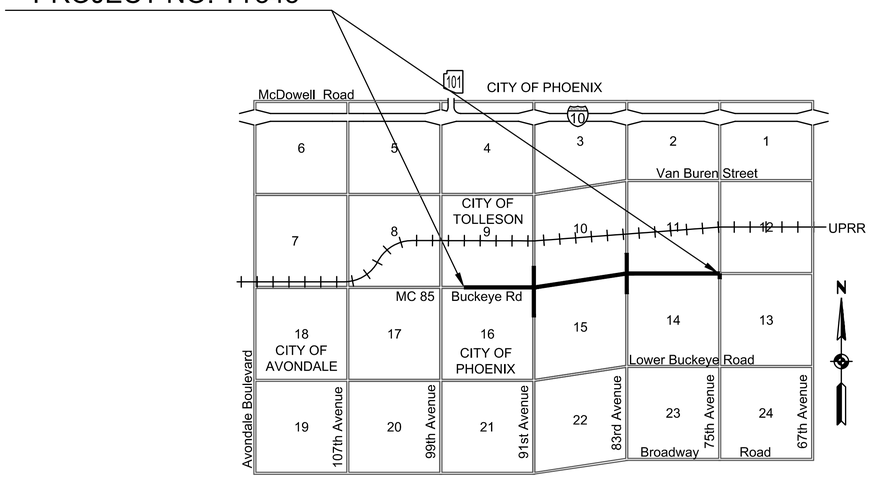
STREET LIGHTING PLANS FOR MC 85

PROJECT NO. TT345

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.



VICINITY MAP

Not to Scale

LEGEND

- LED COBRAHEAD LUMINAIRE AND POLE (SEE NOTE FOR DESCRIPTION)
- LED COBRAHEAD LUMINAIRE AND POLE (SEE DETAIL B)
- 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 DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS.
2. EXISTING STREET LIGHT POLE AND FOUNDATION TO REMAIN. REPLACE LUMINAIRE WITH 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL.
3. REMOVE AND PROPERLY DISPOSE OF EXISTING STREET LIGHT FOUNDATION, POLE, LUMINAIRE, MAST ARM, CONDUCTORS AND ADJACENT PULL BOX (IF APPLICABLE).
4. INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 9'-0" POLE WITH AN 11'-6"X11'-6" MAST ARM PER DETAIL A AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS.
5. INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 20'-0" POLE WITH A 6" TENON ARM PER DETAIL B AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS.
6. INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 42'-0" POLE, WITH A 10' BURY DEPTH, WITH AN 20"X6' MAST ARM PER DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS.
7. INSTALL PULL BOX PER DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS.

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 AS DETAILED ON SRP PLANS.
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	85	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	49	20'-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
(5)	ARTERIAL	1	20'-0"	20'-0"	6" TENON ARM	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
(6)	ARTERIAL	3	32'-11"	42'-0"	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

NOTE: ALL CATALOG NUMBERS SHALL BE CONFIRMED WITH POWER COMPANY PRIOR TO ORDERING.

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Electrical) CERTIFICATE NO. 49025 PETER M. SYNTAX Date Signed 6/15/18 ARIZONA U.S.A. Expires 12/31/2020

	BY	DATE
DESIGNED	P. Syntax	06/2018
DRAWN	D. Peterson	06/2018
CHECKED	M. Colombo	06/2018

Kimley»Horn

STREET LIGHTING NOTES

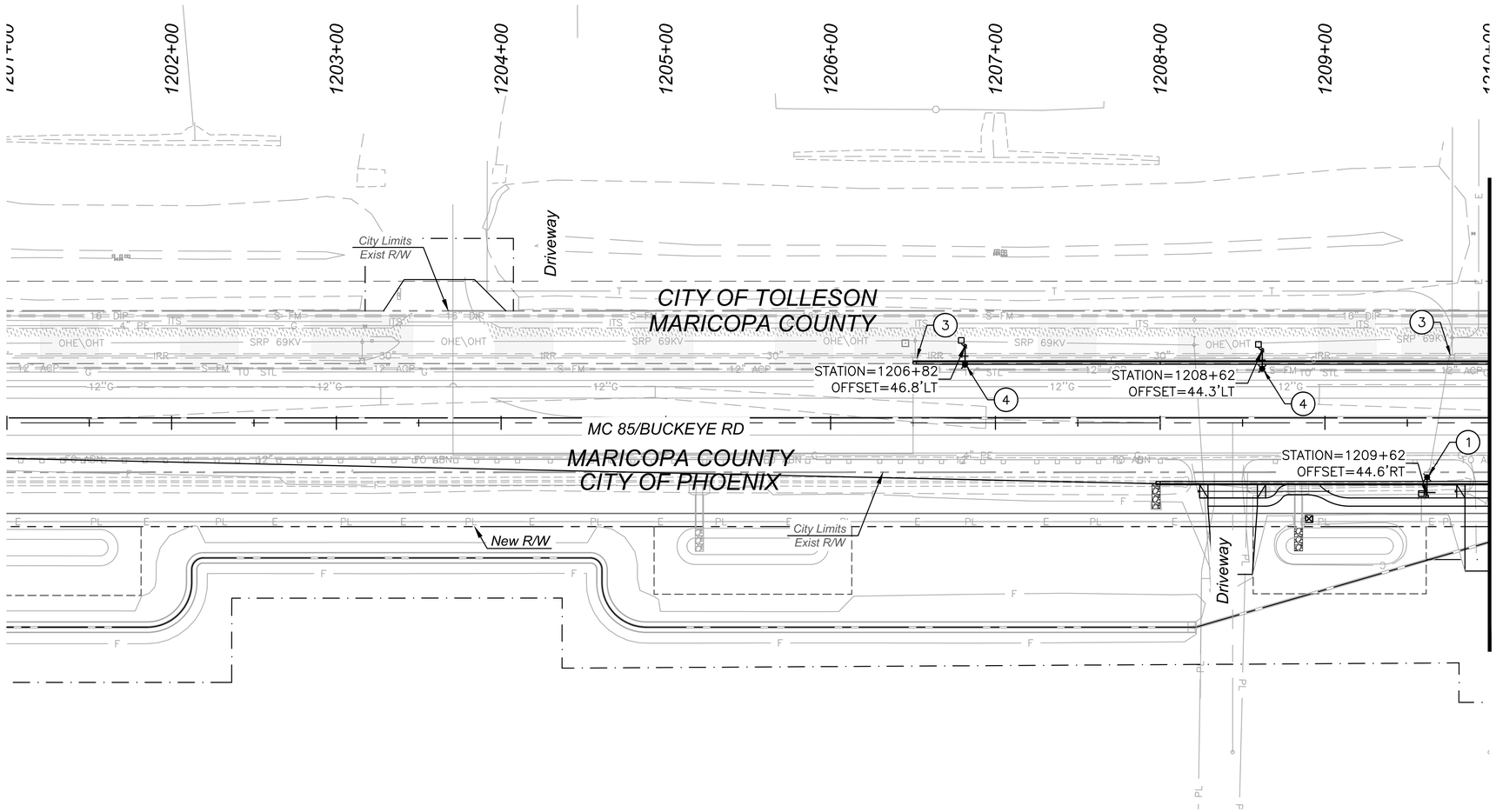
SHEET LT1 OF LT14

TRACS NO. _____

Jun 14, 2018 - 8:12pm mark.flood

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	220	303	



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 DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 1 Ea

(3) REMOVE AND PROPERLY DISPOSE OF EXISTING STREET LIGHT FOUNDATION, POLE, LUMINAIRE, MAST ARM, CONDUCTORS AND ADJACENT PULL BOX (IF APPLICABLE). — 2 Ea

(4) INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 9'–0" POLE WITH AN 11'–6"X11'–6" MAST ARM PER DETAIL A AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 2 Ea

SCALE: Hor: 1"=40'

40 0 40 80
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	P. Syntax	06/2018
DRAWN	D. Peterson	06/2018
CHECKED	M. Colombo	06/2018

Registered Professional Engineer (Retired) — CERTIFICATE NO. 49025 — PETER M. SYNTAX — Date Signed 6/15/18 — ARIZONA, U.S.A. — Expires 12/31/2020

Kimley»Horn

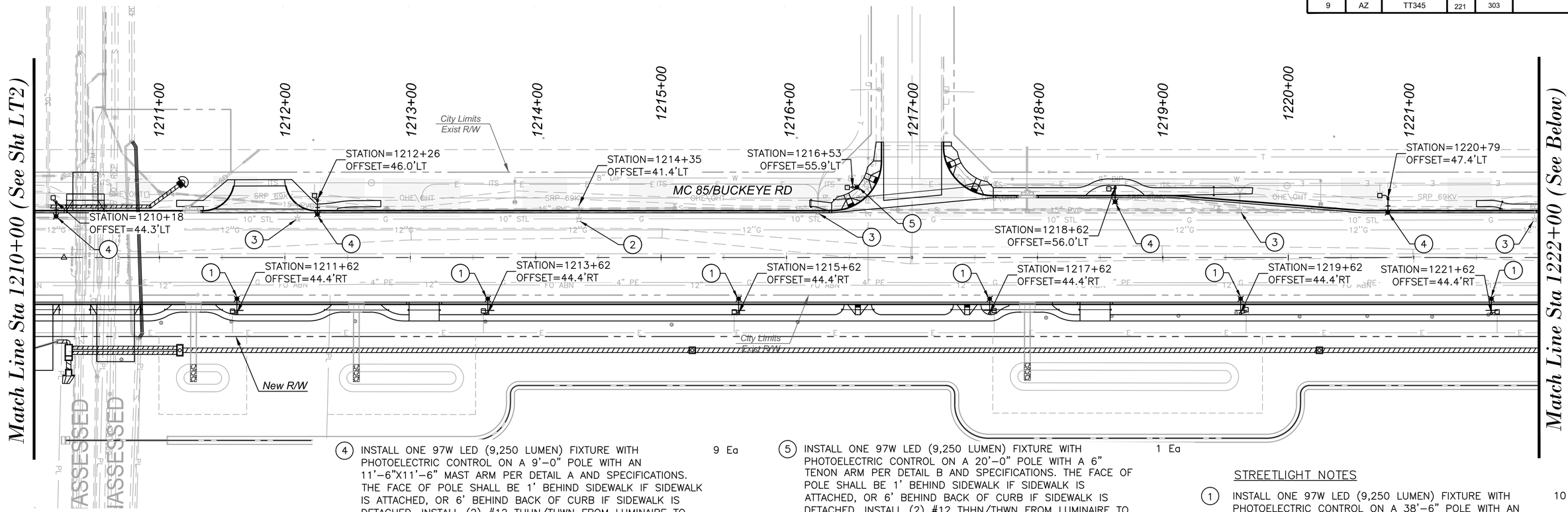
STREET LIGHTING PLANS
STA 1201+00 to STA 1210+00

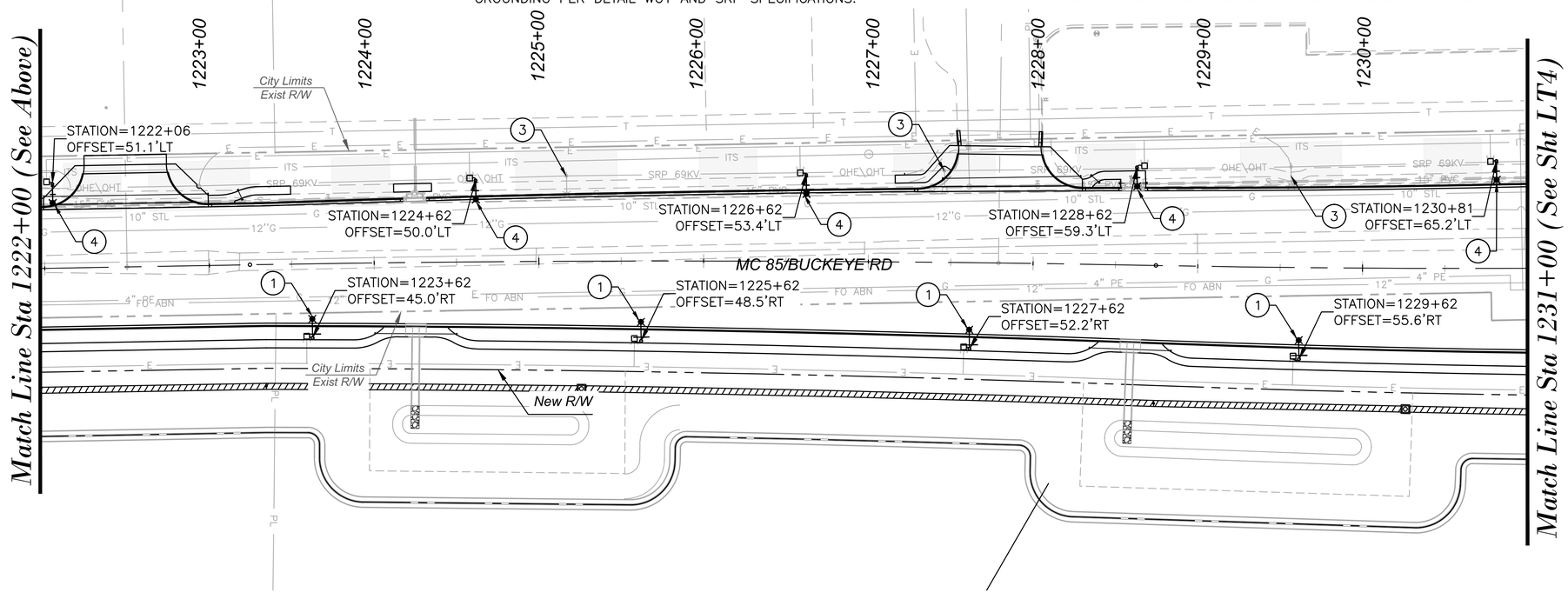
SHEET LT2 OF LT14

TRACS NO. _____

Jun 12, 2018 - 7:11pm
mark.flood
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	221	303	





(4) INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 9'–0" POLE WITH AN 11'–6"X11'–6" MAST ARM PER DETAIL A AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 9 Ea

(5) INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 20'–0" POLE WITH A 6" TENON ARM PER DETAIL B AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 1 Ea

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 DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 10 Ea

(2) EXISTING STREET LIGHT POLE AND FOUNDATION TO REMAIN. REPLACE LUMINAIRE WITH 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL. — 1 Ea

(3) REMOVE AND PROPERLY DISPOSE OF EXISTING STREET LIGHT FOUNDATION, POLE, MAST ARM, CONDUCTORS AND ADJACENT PULL BOX (IF APPLICABLE). — 6 Ea

SCALE: Hor: 1"=40'

40 0 40 80
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	P. Syntax	06/2018
DRAWN	D. Peterson	06/2018
CHECKED	M. Colombo	06/2018

Registered Professional Engineer, Electrical
CERTIFICATE NO.
49025
PETER M. SYNTAX
Date Signed 6/15/18
ARIZONA, U.S.A.
Expires 12/31/2020

Kimley»Horn

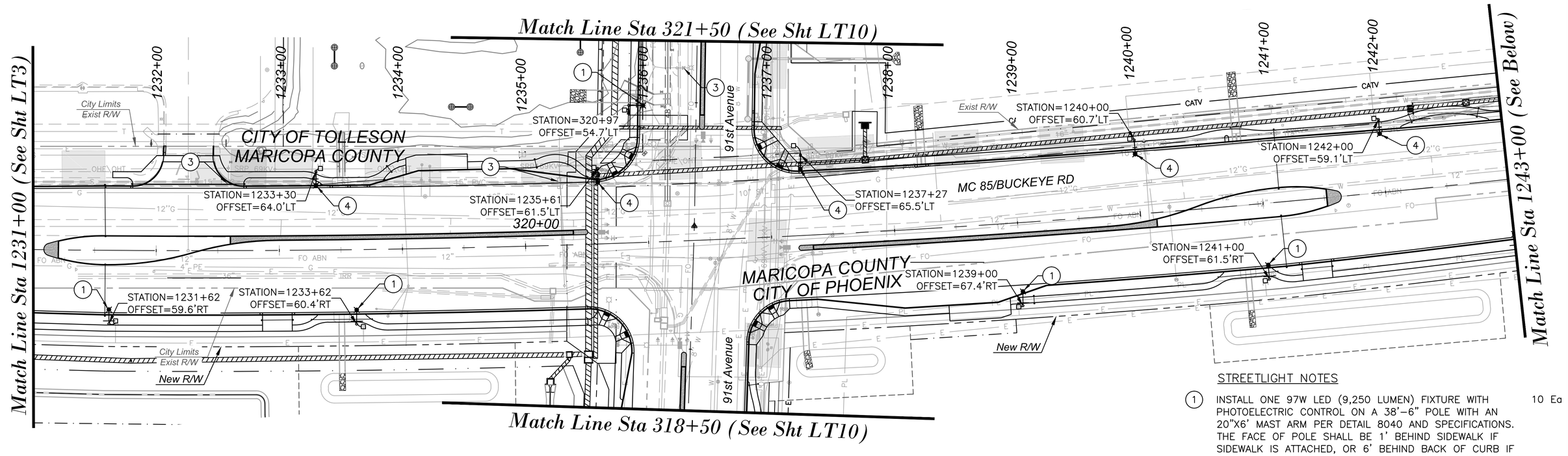
STREET LIGHTING PLANS
Sta 1210+00 to Sta 1231+00

SHEET
LT3 OF LT14

TRACS NO. _____

Jun 12, 2018 - 7:15pm
mark.flood
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	222	303	



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 DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 10 Ea

(3) REMOVE AND PROPERLY DISPOSE OF EXISTING STREET LIGHT FOUNDATION, POLE, LUMINAIRE, MAST ARM, CONDUCTORS AND ADJACENT PULL BOX (IF APPLICABLE). — 4 Ea

(4) INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 9'–0" POLE WITH AN 11'–6"X11'–6" MAST ARM PER DETAIL A AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 10 Ea

SCALE: Hor: 1"=40'

40 0 40 80
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	P. Syntax	06/2018
DRAWN	D. Peterson	06/2018
CHECKED	M. Colombo	06/2018

Registered Professional Engineer (Electrical) CERTIFICATE NO. 49025 PETER M. SYNTAX ARIZONA, USA. Date Signed 6/15/18 Expires 12/31/2020

Kimley»Horn

STREET LIGHTING PLANS
Sta 1231+00 to Sta 1252+00

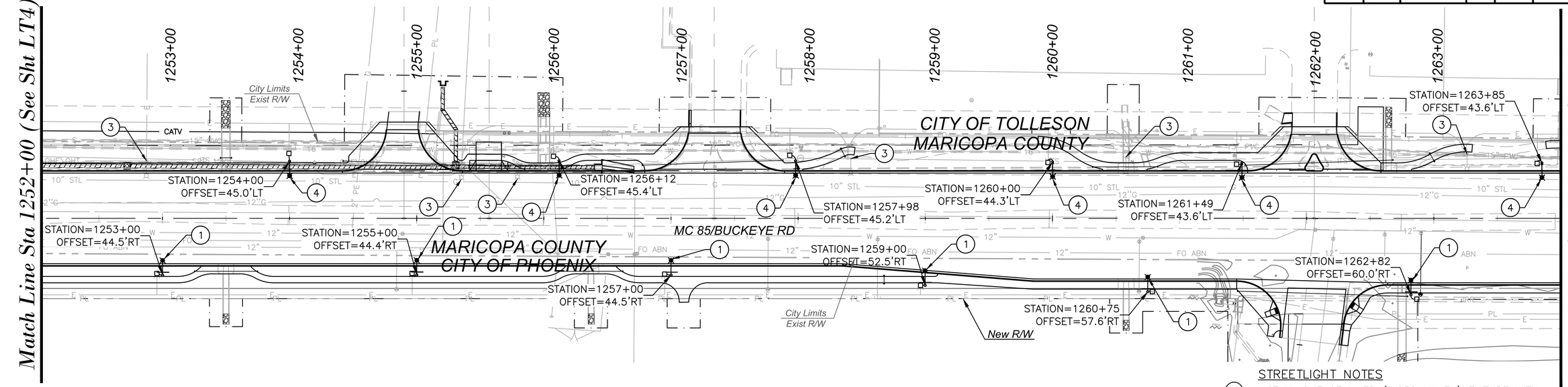
SHEET LT4 OF LT14

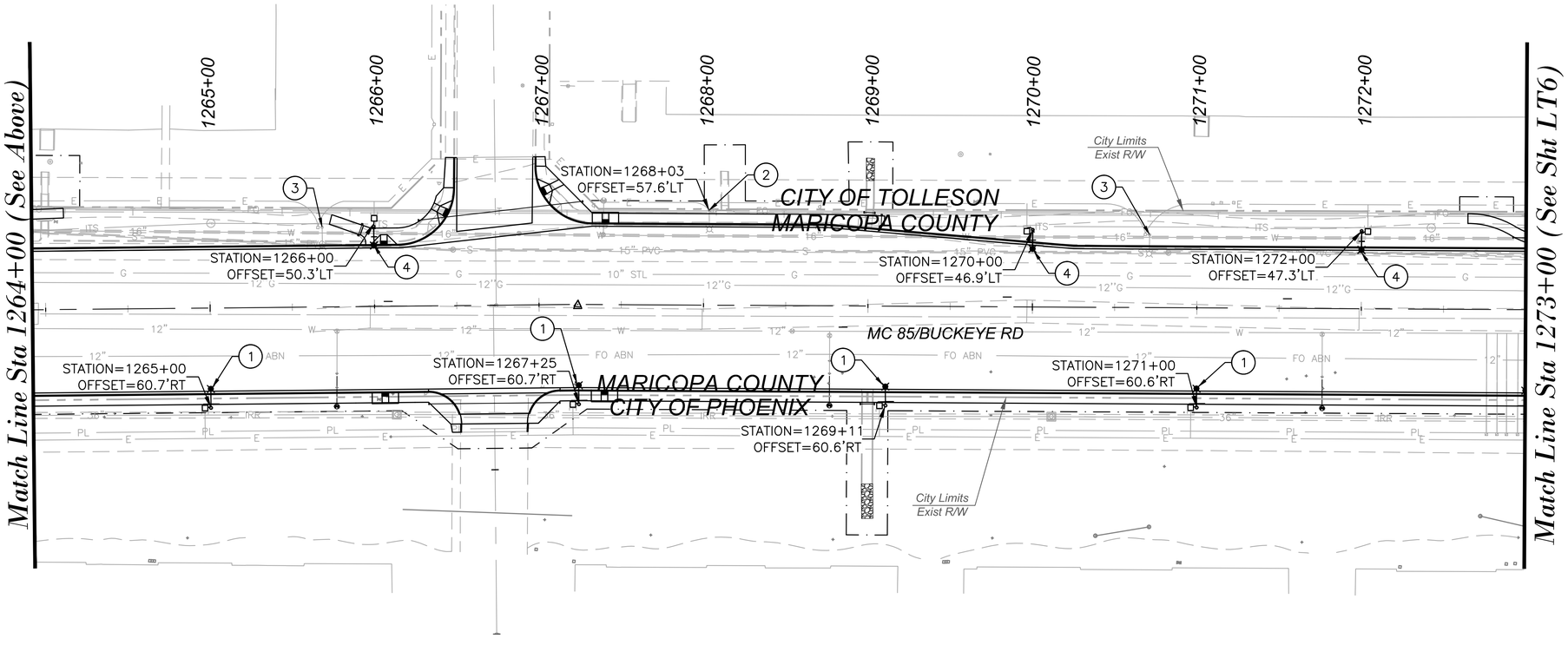
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Jun 13, 2018 - 10:16am mark.flood

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	223	303	





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 DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS.	10 Ea
(2)	EXISTING STREET LIGHT POLE AND FOUNDATION TO REMAIN. REPLACE LUMINAIRE WITH 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL.	1 Ea
(3)	REMOVE AND PROPERLY DISPOSE OF EXISTING STREET LIGHT FOUNDATION, POLE, LUMINAIRE, MAST ARM, CONDUCTORS AND ADJACENT PULL BOX (IF APPLICABLE).	8 Ea
(4)	INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 9'–0" POLE WITH AN 11'–6"X11'–6" MAST ARM PER DETAIL A AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS.	9 Ea

SCALE: Hor: 1"=40'

40 0 40 80
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	P. Syntax	06/2018
DRAWN	D. Peterson	06/2018
CHECKED	M. Colombo	06/2018

Registered Professional Engineer (Electrical) CERTIFICATE NO. 49025 PETER M. SYNTAX Date Signed 6/15/18 ARIZONA U.S.A. Expires 12/31/2020

Kimley»Horn

STREET LIGHTING PLANS
Sta 1252+00 to Sta 1273+00

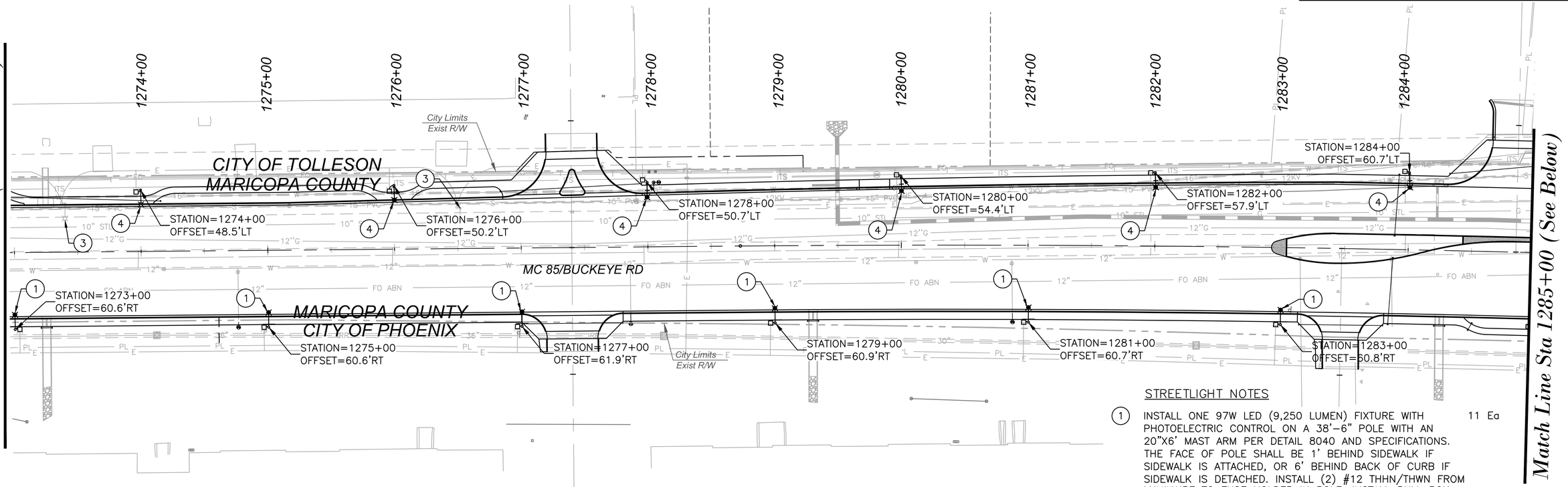
SHEET LT5 OF LT14

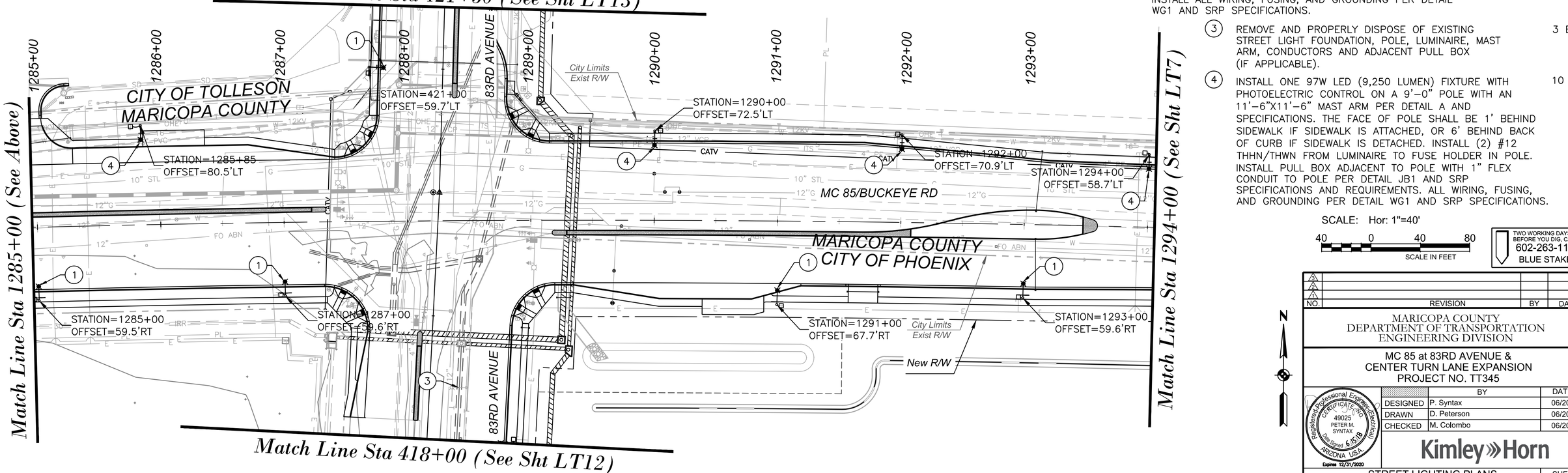
TRACS NO. _____

Jun 12, 2018 - 7:44pm mark.flood

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	224	303	





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 DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 11 Ea

(3) REMOVE AND PROPERLY DISPOSE OF EXISTING STREET LIGHT FOUNDATION, POLE, LUMINAIRE, MAST ARM, CONDUCTORS AND ADJACENT PULL BOX (IF APPLICABLE). — 3 Ea

(4) INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 9'–0" POLE WITH AN 11'–6"X11'–6" MAST ARM PER DETAIL A AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 10 Ea

SCALE: Hor: 1"=40'

40 0 40 80
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG. CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	P. Syntax	06/2018
DRAWN	D. Peterson	06/2018
CHECKED	M. Colombo	06/2018

Registered Professional Engineer Certificate No. 49025 PETER M. SYNTAX Designed 6/15/18 ARIZONA, U.S.A. Expires 12/31/2020

Kimley»Horn

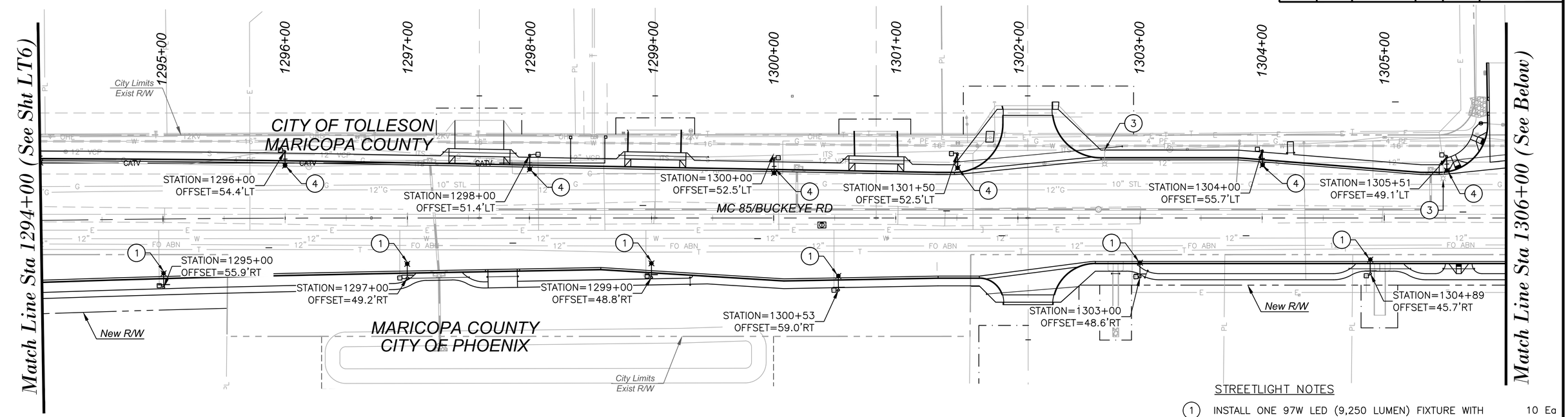
STREET LIGHTING PLANS
Sta 1273+00 to 1294+00

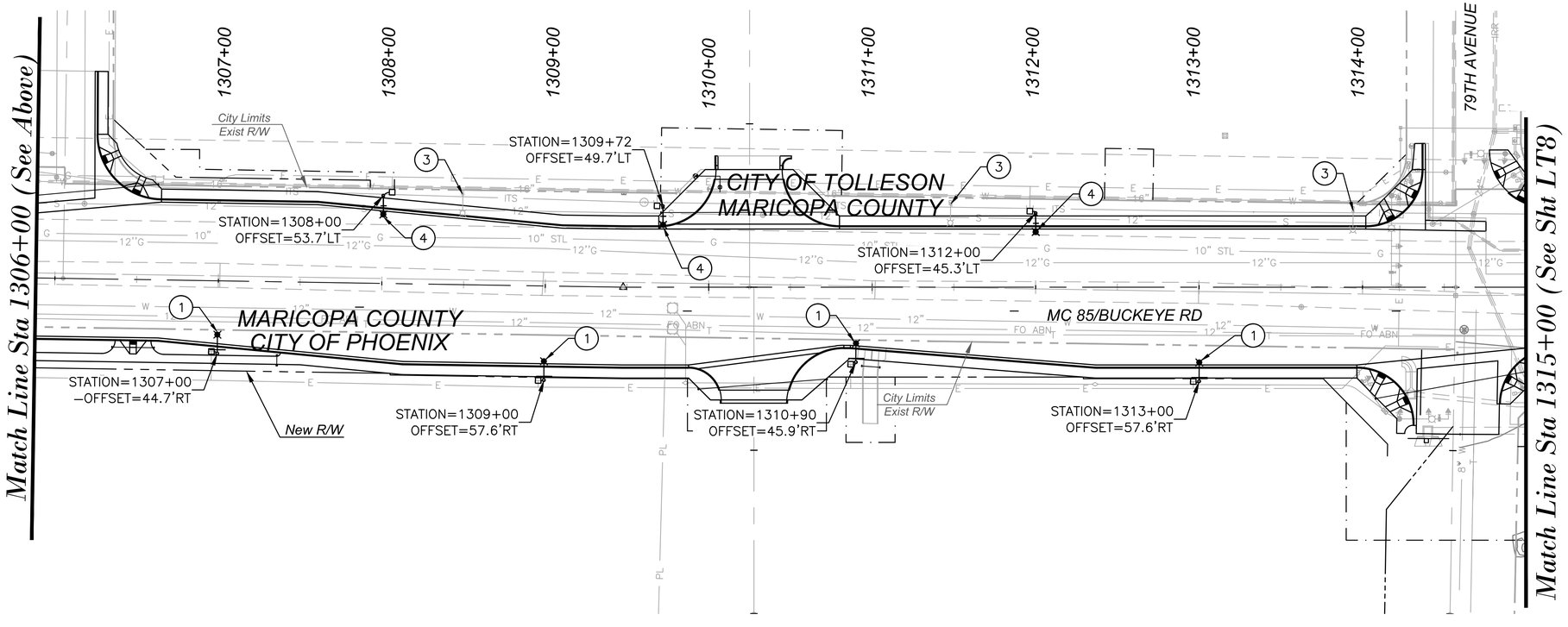
SHEET LT6 OF LT14

TRACS NO. _____

Jun 14, 2018 - 8:16pm
mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Lighting\aze1019-lt-pl09.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	225	303	





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 DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 10 Ea

(3) REMOVE EXISTING STREET LIGHT FOUNDATION, LUMINAIRE, POLE, MAST ARM, CONDUCTORS AND ADJACENT PULL BOX (IF APPLICABLE). — 5 Ea

(4) INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 9'–0" POLE WITH AN 11'–6"X11'–6" MAST ARM PER DETAIL A AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 9 Ea

SCALE: Hor: 1"=40'

40 0 40 80
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
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3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	P. Syntax	06/2018
DRAWN	D. Peterson	06/2018
CHECKED	M. Colombo	06/2018

Registered Professional Engineer/Electrician
CERTIFICATE NO.
49025
PETER M. SYNTAX
ARIZONA, USA
Date Signed 6/15/18
Expires 12/31/2020

Kimley»Horn

STREET LIGHTING PLANS
Sta 1294+00 to Sta 1315+00

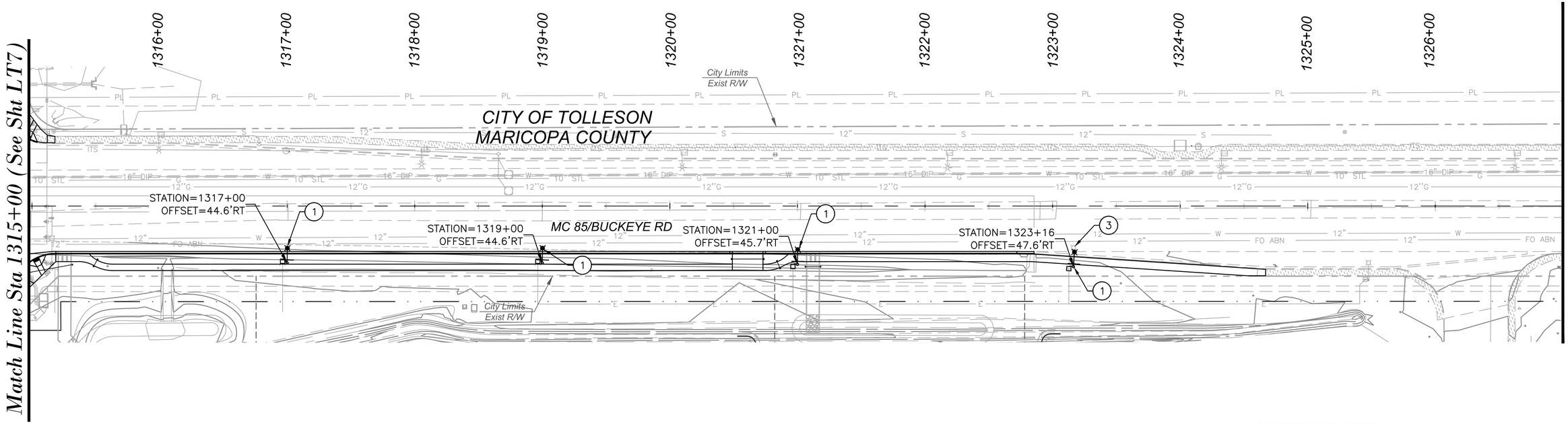
SHEET
LT7 OF LT14

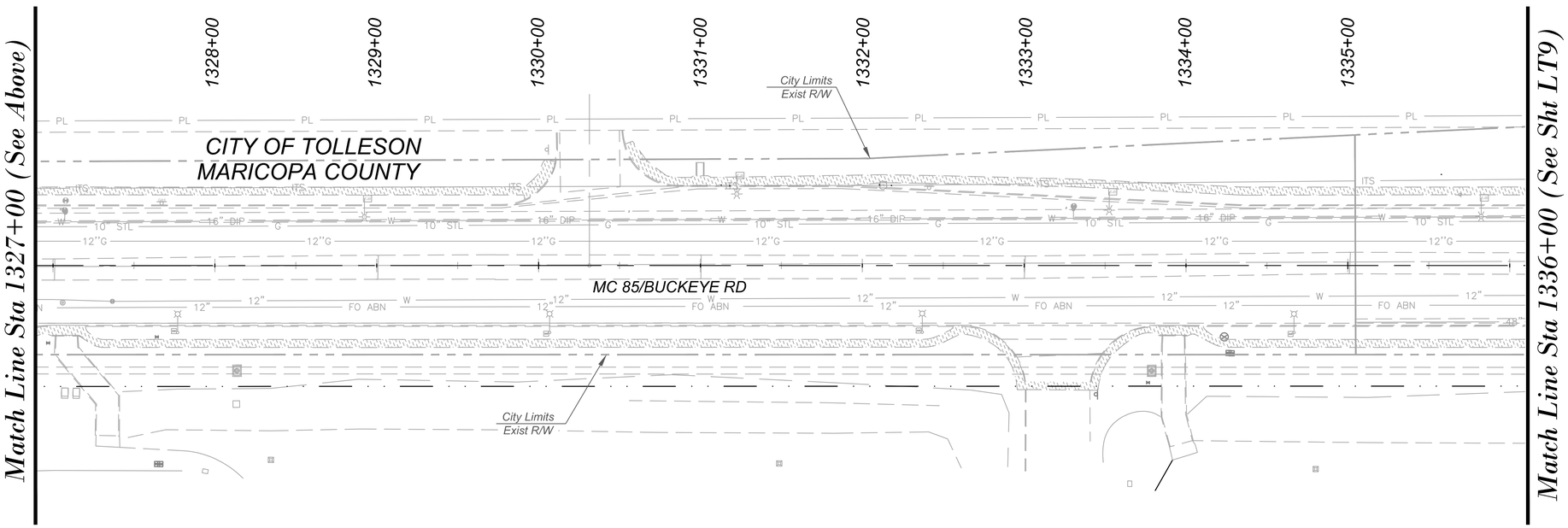
TRACS NO. _____

Jun 12, 2018 - 7:50pm mark.flood

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	226	303	





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 DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS.	4 Ea
(3)	REMOVE AND PROPERLY DISPOSE OF EXISTING STREET LIGHT FOUNDATION, POLE, LUMINAIRE, MAST ARM, CONDUCTORS AND ADJACENT PULL BOX (IF APPLICABLE).	1 Ea

SCALE: Hor: 1"=40'

40 0 40 80
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
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3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	P. Syntax	06/2018
DRAWN	D. Peterson	06/2018
CHECKED	M. Colombo	06/2018

Registered Professional Engineer (Electrical)
CERTIFICATE NO.
49025
PETER M. SYNTAX
Date Signed 6/15/18
ARIZONA, U.S.A.
Expires 12/31/2020

Kimley»Horn

STREET LIGHTING PLANS
Sta 1315+00 to Sta 1336+00

SHEET
LT8 OF LT14

TRACS NO. _____

Jun 14, 2018 - 8:25pm mark.flood

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Lighting\aze1019-lt-pl11.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	227	303	

Match Line Sta 1336+00 (See Sht LT8)

1337+00 1338+00 1339+00 1340+00 1341+00 1342+00 1343+00 1344+00 1345+00

City Limits Exist R/W

CITY OF TOLLESON
MARICOPA COUNTY

75TH AVENUE

520+00

MC 85/BUCKEYE RD

MARICOPA COUNTY
CITY OF PHOENIX

519+00

City Limits Exist R/W

518+00

75TH AVENUE

NO WORK THIS SHEET

SCALE: Hor: 1"=40'

40 0 40 80
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

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

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Electrical) CERTIFICATE NO. 49025 PETER M. SYNTAX Date Signed 6/15/18 ARIZONA, U.S.A. Expires 12/31/2020

	BY	DATE
DESIGNED	P. Syntax	06/2018
DRAWN	D. Peterson	06/2018
CHECKED	M. Colombo	06/2018

Kimley»Horn

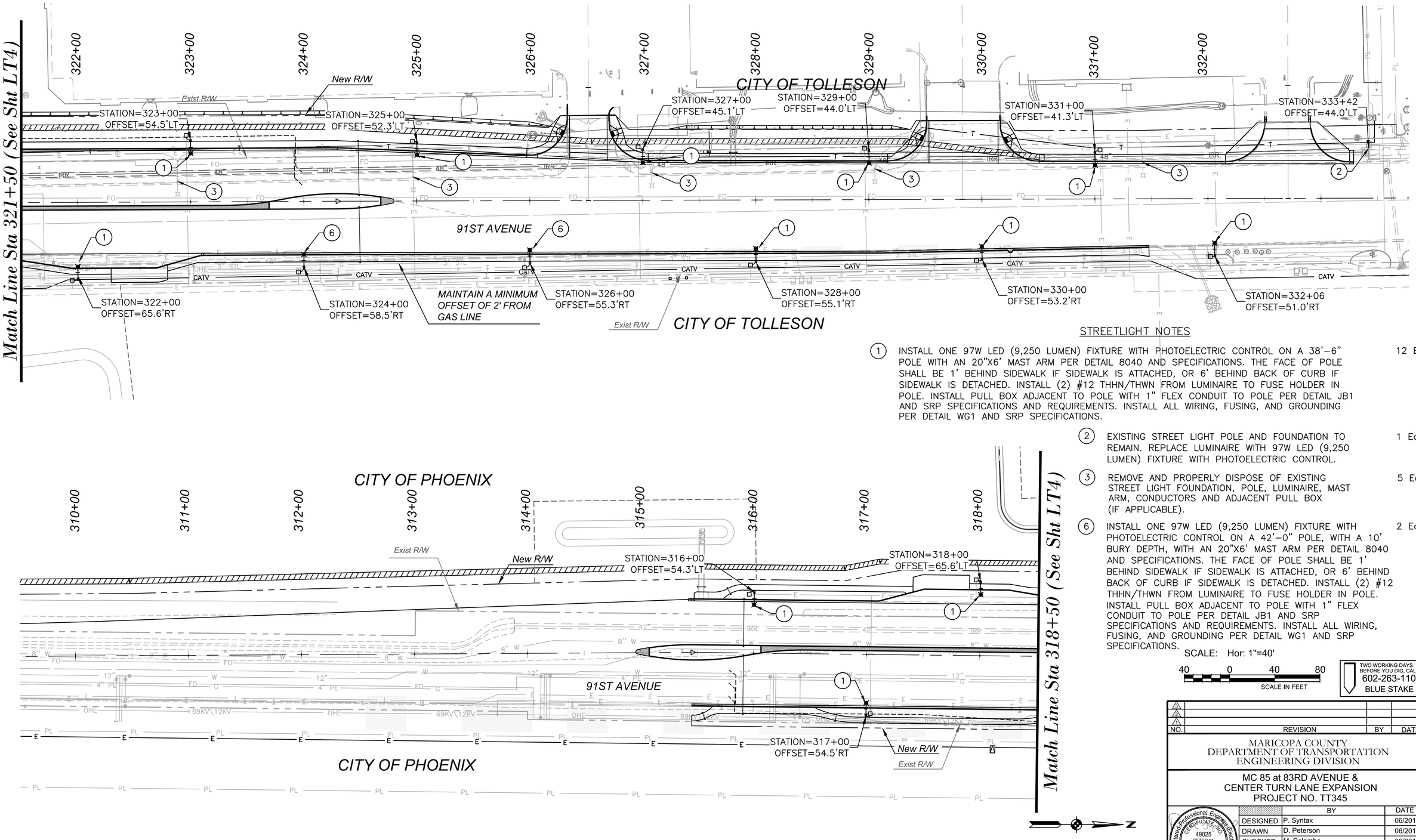
STREET LIGHTING PLANS
Sta 1336+00 to Sta 1345+45

SHEET LT9 OF LT14

TRACS NO. _____

Jun 14, 2018 - 10:09pm mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Lighting\aze1019-lt-pl12.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	228	303	



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 DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 12 Ea

(2) EXISTING STREET LIGHT POLE AND FOUNDATION TO REMAIN. REPLACE LUMINAIRE WITH 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL. — 1 Ea

(3) REMOVE AND PROPERLY DISPOSE OF EXISTING STREET LIGHT FOUNDATION, POLE, LUMINAIRE, MAST ARM, CONDUCTORS AND ADJACENT PULL BOX (IF APPLICABLE). — 5 Ea

(6) INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 42'–0" POLE, WITH A 10' BURY DEPTH, WITH AN 20"X6' MAST ARM PER DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 2 Ea

SCALE: Hor: 1"=40'

40 0 40 80
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Electrical)
CERTIFICATE NO.
49025
PETER M. SYNTAX
ARIZONA, U.S.A.
Date Signed 6/15/18
Expires 12/31/2020

	BY	DATE
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Kimley»Horn

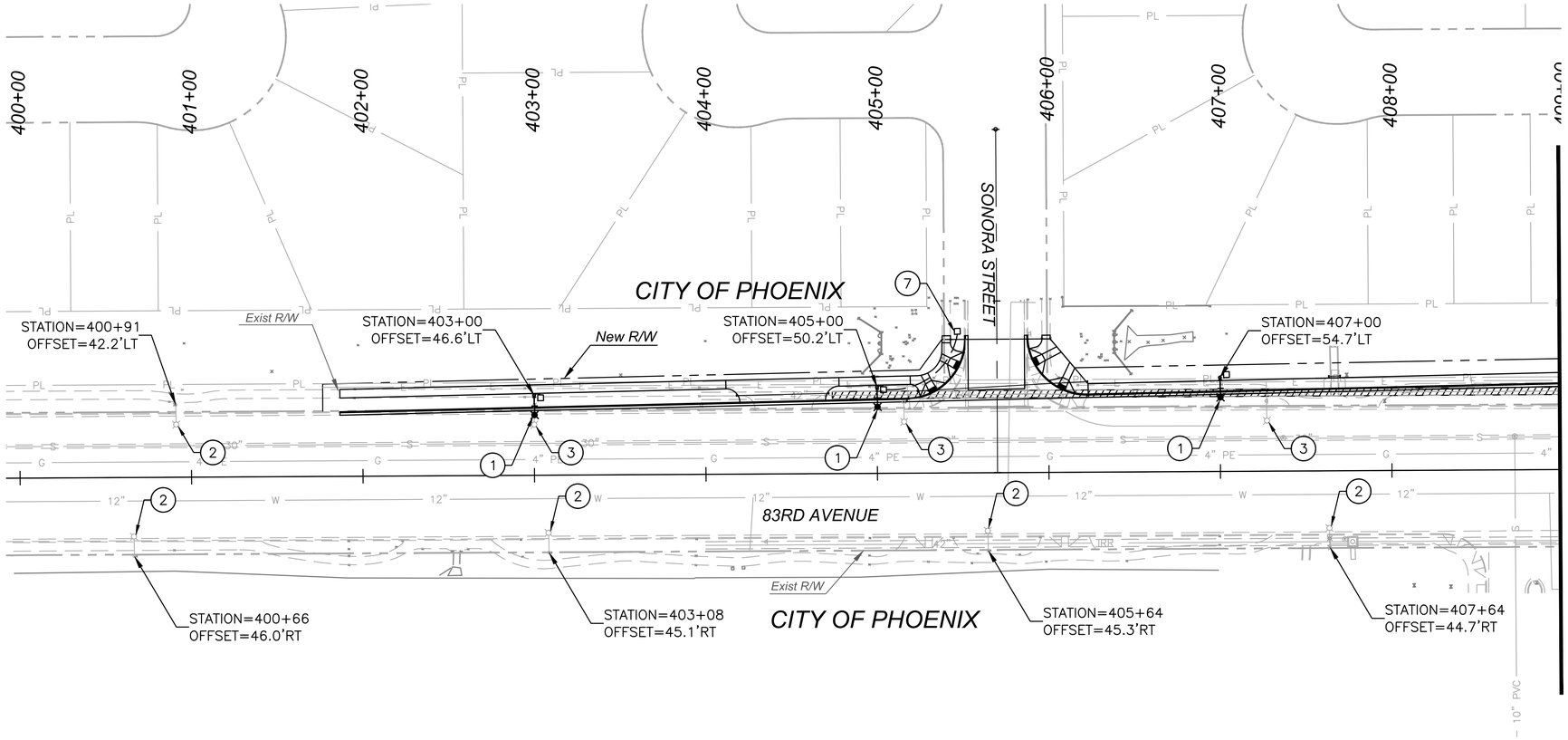
91ST AVE STREET LIGHTING PLANS
Sta 309+50 to 318+50 & Sta 321+50 to 333+50

SHEET
LT10 OF LT14

TRACS NO. _____

Jun 12, 2018 - 7:57pm
mark.flood
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	229	303	



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 DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS.	3 Ea
(2)	EXISTING STREET LIGHT POLE AND FOUNDATION TO REMAIN. REPLACE LUMINAIRE WITH 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL.	5 Ea
(3)	REMOVE AND PROPERLY DISPOSE OF EXISTING STREET LIGHT FOUNDATION, POLE, LUMINAIRE, MAST ARM, CONDUCTORS AND ADJACENT PULL BOX (IF APPLICABLE).	3 Ea
(7)	INSTALL PULL BOX PER DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS.	1 Ea

SCALE: Hor: 1"=40'

40 0 40 80
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
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1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Electrical) CERTIFICATE NO. 49025 PETER M. SYNTAX Date Signed 6/15/18 ARIZONA, U.S.A. Expires 12/31/2020

	BY	DATE
DESIGNED	P. Syntax	06/2018
DRAWN	D. Peterson	06/2018
CHECKED	M. Colombo	06/2018

Kimley»Horn

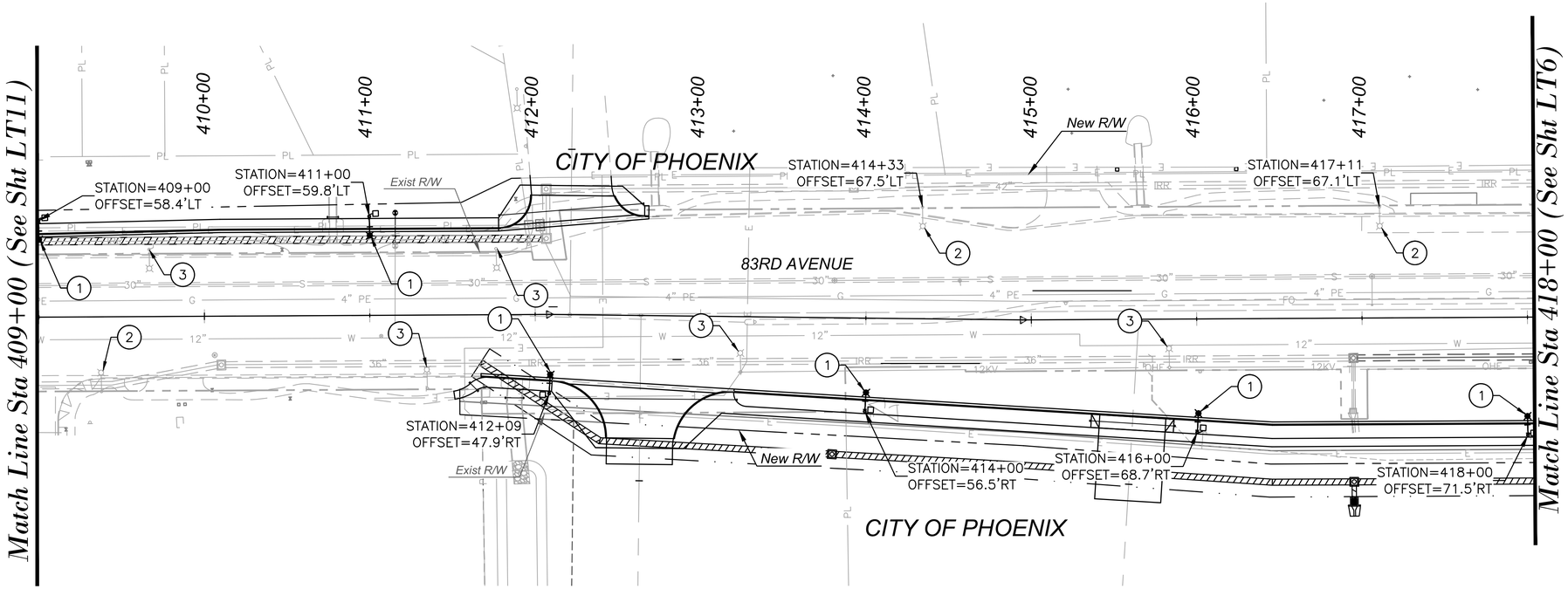
83RD AVE STREET LIGHTING PLANS
Sta 400+00 to Sta 409+00

SHEET
LT11 OF LT14

TRACS NO. _____

Jun 14, 2018 - 8:27pm
mark.flood
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	230	303	



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 DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 6 Ea

(2) EXISTING STREET LIGHT POLE AND FOUNDATION TO REMAIN. REPLACE LUMINAIRE WITH 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL. — 3 Ea

(3) REMOVE AND PROPERLY DISPOSE OF EXISTING STREET LIGHT FOUNDATION, POLE, LUMINAIRE, MAST ARM, CONDUCTORS AND ADJACENT PULL BOX (IF APPLICABLE). — 5 Ea

SCALE: Hor: 1"=40'

40 0 40 80
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

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

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
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DRAWN	D. Peterson	06/2018
CHECKED	M. Colombo	06/2018

Registered Professional Engineer (Electrical) CERTIFICATE NO. 49025 PETER M. SYNTAX Date Signed 6/15/18 ARIZONA, U.S.A. Expires 12/31/2020

Kimley»Horn

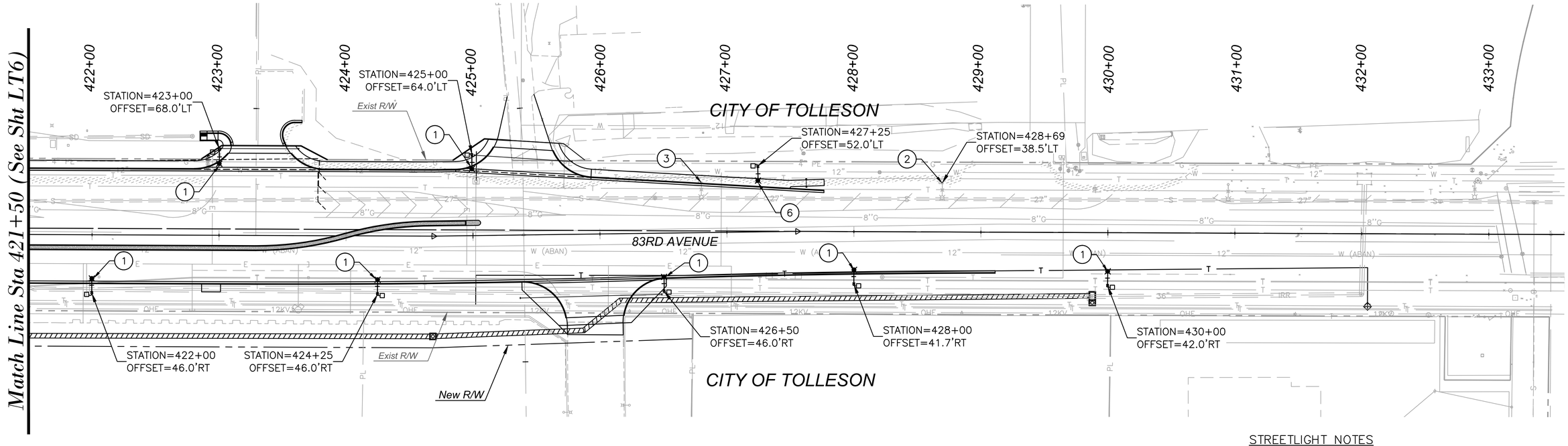
83RD AVE STREET LIGHTING PLANS
Sta 409+00 to Sta 418+00

SHEET LT12 OF LT14

TRACS NO. _____

Jun 14, 2018 - 8:29pm
mark.flood
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	231	303	



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 DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 7 Ea

(2) EXISTING STREET LIGHT POLE AND FOUNDATION TO REMAIN. REPLACE LUMINAIRE WITH 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL. — 1 Ea

(3) REMOVE AND PROPERLY DISPOSE OF EXISTING STREET LIGHT FOUNDATION, POLE, LUMINAIRE, MAST ARM, CONDUCTORS AND ADJACENT PULL BOX (IF APPLICABLE). — 1 Ea

(6) INSTALL ONE 97W LED (9,250 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 42'–0" POLE, WITH A 10' BURY DEPTH, WITH AN 20"X6' MAST ARM PER DETAIL 8040 AND 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 DETAIL JB1 AND SRP SPECIFICATIONS AND REQUIREMENTS. INSTALL ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1 AND SRP SPECIFICATIONS. — 1 Ea

SCALE: Hor: 1"=40'

40 0 40 80
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

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

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Electrical)
CERTIFICATE NO.
49025
PETER M. SYNTAX
ARIZONA, USA
Date Signed 6/15/18
Expires 12/31/2020

	BY	DATE
DESIGNED	P. Syntax	06/2018
DRAWN	D. Peterson	06/2018
CHECKED	M. Colombo	06/2018

Kimley»Horn

83RD AVE STREET LIGHTING PLANS
Sta 421+50 to Sta 433+50

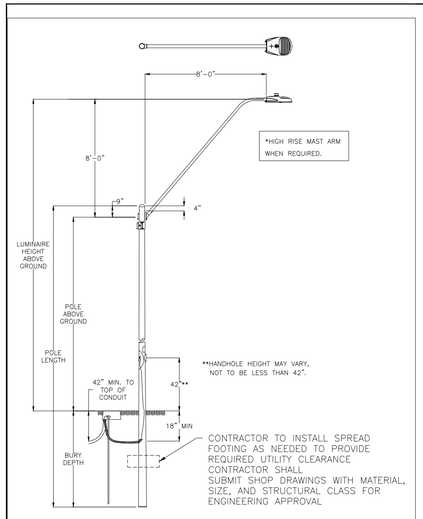
SHEET
LT13 OF LT14

TRACS NO. _____

Jun 14, 2018 - 8:32pm mark.flood

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	232	303	



1944. 38

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

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 POLES IN THE FIELD WITHOUT TWO SIMPLEX FITTINGS. SEE 819B 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.

POLE TYPE	POLE CODE	POLE LENGTH	BURY DEPTH	POLE ABOVE GROUND	POLE BUTT DIAMETER		WEIGHT	LUMINAIRE HEIGHT ABOVE GROUND ON ARM		
					STEP	TAPER		20' X 6'	3' X 8'	8' X 8'
LOCAL	1944.30	30'-0"	5'-6"	25'-0"	5-9/16"	7-5/16"	460	25'-11"	27'-3"	-
COLLECTOR	1944.38	38'-0"	6'-6"	32'-0"	6-5/8"	9-3/4"	640	32'-11"	34'-3"	39'-3"
ARTERIAL	1944.38X	38'-0"	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.

LIGHT CODE	COLOR	APN	TYPE	WATTS	VOLTS	INITIAL LUMENS	PHOTOMETRIC CURVE
CL63	GRAY	00128332	LED	97	120/280/240/277	9,250	454688

SRP	SALT RIVER PROJECT T&D CONSTRUCTION STANDARDS			
BY	LDR.	MGR.	DATE	REV.
TCW	J. Fernandez	S. Sierra	04/04/14	7

LIGHTS
ROADWAY LUMINAIRE ON
20'X6", 3'X8' OR 8'X8' MAST ARMS ON
19'–0", 30'–0", 38'–0" OR 40'–6" STEEL POLES

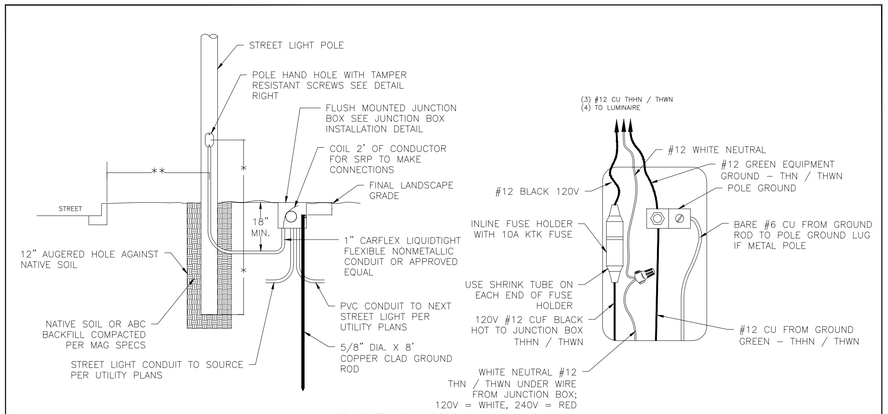
SH 1 OF 2

SRP	SALT RIVER PROJECT T&D CONSTRUCTION STANDARDS			
BY	LDR.	MGR.	DATE	REV.
TCW	J. Fernandez	B. Velez	04/04/14	7

LIGHTS
ROADWAY LUMINAIRE ON
20'X6", 3'X8' OR 8'X8' MAST ARMS ON
19'–0", 30'–0", 38'–0" OR 40'–6" STEEL POLES

SH 2 OF 2

8040



• SEE POLE DETAILS FOR DIMENSION
• • SEE PLANS FOR POLE SETBACK

POLE HAND HOLE FUSING AND GROUNDING DETAIL

EACH HOT LEG SHALL HAVE AN INLINE FUSE HOLDER EX. 240 VOLTS NO NEUTRAL NEEDED INSIDE 240 VOLT POLE

CITY OF PHOENIX REVISED 4/2014	STREET LIGHT STANDARD STREET LIGHT WIRING AND GROUNDING DETAIL FOR SRP SERVICE AREA	DETAIL NO. WG1

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.

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 #8483F27MABR

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.

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 POLES 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.

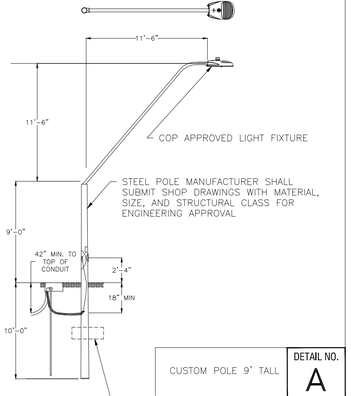
B SEE SPEC 8130 – 8131 FOR IN–LINE FUSE FOR UNDERGROUND FEEDS.

C SEE 8100 THRU 8107 FOR OVERHEAD ATTACHMENTS.

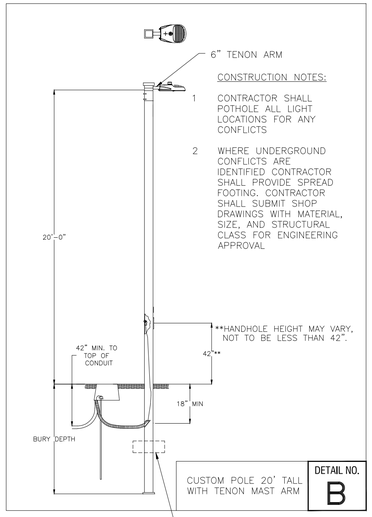
CONSTRUCTION NOTES:

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



CUSTOM POLE 9' TALL — DETAIL NO. A

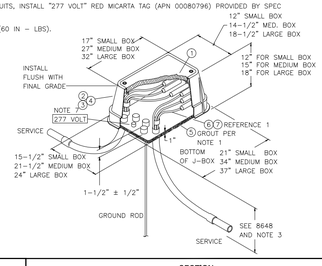


CUSTOM POLE 20' TALL WITH TENON MAST ARM — DETAIL NO. B

CODE	JUNCTION BARS
A	THREE–POSITION MOLDS
B	FIVE–POSITION MOLDS
C	EIGHT–POSITION MOLDS
D	TWO–POSITION GEL PACKS
N	NO CONNECTORS

8655. – – – – SMALL BOX
8656. – – – – MEDIUM BOX
8657. – – – – LARGE BOX
IF APPLICABLE G = APS GROUT APPROVED
IF APPICABLE L = LIGHTS
SECONDARY WIRE CODES
JUNCTION BARS

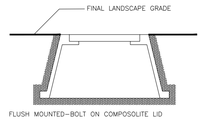
NOTES:
1. CONCRETE GROUT SHALL BE PREMIX, APN 71301280 OR EQUIVALENT.
2. PENTA–HEAD BOLTS SHALL BE INSTALLED PRIOR TO ENERGIZING NEW UNDERGROUND SYSTEMS. LOST OR MISPLACED PENTA–HEAD BOLTS SHALL BE REPLACED WITH APN 71402608.
3. BRINGING ALL CABLE/CONDUITS AND GROUND ROD INTO THE SAME END OF THE BOX 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	PC1118B513 BOX PC1118C504–17/UH039OAA COVER WITH ELECTRIC
ARMORCAST PRODUCTS	6001429A
CDR SYSTEMS	PA40–1015–12
CARSON & ASSOCIATES	HLW1118–12 BOX HLW1118–PO LID

SALT RIVER PROJECT T&D CONSTRUCTION STANDARDS	SECTION SECTION/DESCRIPTION DESCRIPTION 3	SH 1 OF 1	CITY OF PHOENIX REVISED 4/2014	STREET LIGHT STANDARD JUNCTION BOX INSTALLATION DETAIL FOR SRP SERVICE AREA	DETAIL NO. JB1

SRP Transmission (69kV) Setup Area

SCALE: Hor: 1"=40'

40 0 40 80
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Electrical) CERTIFICATE NO. 49025 PETER M. SYNTAX Date Signed 6/15/18 ARIZONA, USA. Expires 12/31/2020

	BY	DATE
DESIGNED	P. Syntax	06/2018
DRAWN	D. Peterson	06/2018
CHECKED	M. Colombo	06/2018

Kimley»Horn

STREET LIGHTING DETAILS

SHEET LT14 OF LT14

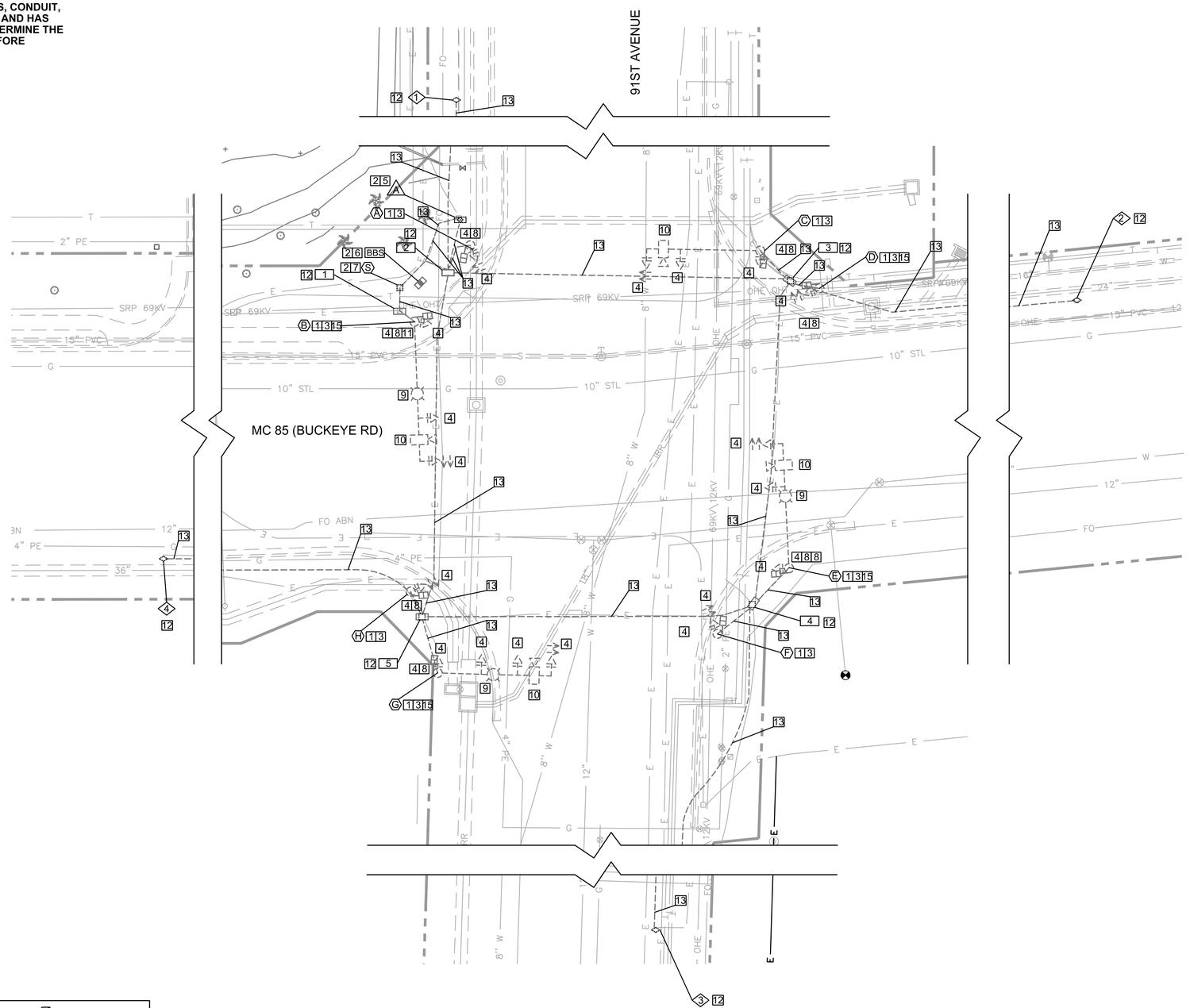
TRACS NO. _____

Jun 13, 2018 - 5:32pm
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.**



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
- SERVICE PEDESTAL AND BATTERY BACK-UP SYSTEM CABINET
- CONTROLLER CABINET
- "P" CABINET FOUNDATION w/CABINET PAD
- 2" PVC RUN
- LUMINAIRE OTHERS
- MCDOT SIGNAL POLE
- VIDEO DETECTION OR CCTV CAMERA
- FIRE PRE-EMPTION
- TRAFFIC SIGNAL HEAD TYPE F
- TRAFFIC SIGNAL HEAD TYPE G
- TRAFFIC SIGNAL HEAD TYPE Q
- TRAFFIC SIGNAL HEAD TYPE R
- FLASHER SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON W/SIGN
- METER SOCKET W/CIRCUIT BREAKER BOX
- MCDOT LUMINAIRE ON MAST ARM
- M POLE WITH MAST ARM AND TRAFFIC SIGNAL EXISTING
- M POLE WITH MAST ARMS FOR A LUMINAIRE AND TRAFFIC SIGNAL EXISTING
- E, J OR K POLE WITH MAST ARM AND TRAFFIC SIGNAL
- F, Q OR R POLE WITH MAST ARMS FOR A LUMINAIRE AND AND TRAFFIC SIGNAL
- RAILROAD CABINET
- LOOP DETECTOR
- VEHICLE MOVEMENT
- PEDESTRIAN MOVEMENT
- PVC 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

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

ESTIMATED QUANTITIES (THIS SHEET)

BATTERY BACKUP SYSTEM CABINET	1	EA
POLES & FOUNDATIONS	8	EA
PULL BOXES	9	EA
CONTROL CABINET	1	EA
SERVICE CABINET	1	EA
SIGNAL INDICATIONS	25	EA
PEDESTRIAN PUSH BUTTONS	8	EA

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	233	303	

☐ REMOVAL/RELOCATE ☐

1	REMOVE POLE FOUNDATION	8 - EA
2	REMOVE CABINET FOUNDATION	3 - EA
3	REMOVE AND SALVAGE POLE AND MAST ARM	8 - EA
4	REMOVE AND SALVAGE SIGNAL AND PEDESTRIAN INDICATIONS	25 - EA
5	REMOVE AND SALVAGE CONTROL CABINET	1 - EA
6	REMOVE AND SALVAGE BATTERY BACKUP SYSTEM CABINET	1 - EA
7	REMOVE AND SALVAGE SERVICE PEDESTAL CABINET	1 - EA
8	REMOVE AND SALVAGE PEDESTRIAN PUSH BUTTON STATION WITH SIGN	8 - EA
9	REMOVE AND SALVAGE LUMINAIRE LIGHT FIXTURE AND MAST ARM	3 - EA
10	REMOVE AND SALVAGE VIDEO DETECTION SYSTEM	4 - EA
11	REMOVE AND SALVAGE WIRELESS RADIO	1 - EA
12	REMOVE PULL BOX	9 - EA
13	REMOVE CONDUCTORS AND ABANDON CONDUIT	LUMP SUM
15	REMOVE AND SALVAGE STREET NAME SIGN	4 - EA

REMOVALS

- #3½ PULL BOX
- POLE AND FOUNDATION
- CONTROLLER CABINET AND FOUNDATION
- SERVICE CABINET AND FOUNDATION
- #7 PULL BOX
- BATTERY BACKUP SYSTEM CABINET AND FOUNDATION

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) 39165 RAY P. YPARRAGUIRRE Date Signed 11/1/17 ARIZONA, U.S.A.
Expires 06/30/2018

	BY	DATE
DESIGNED	R. Yparraguirre	11/2017
DRAWN	B. Soto	11/2017
CHECKED	K. Carroll	11/2017

Kimley»Horn

MC 85 & 91ST AVENUE REMOVAL PLAN

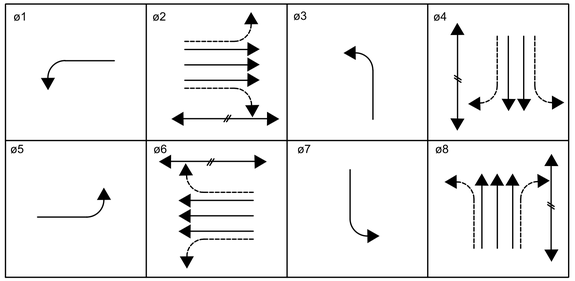
SHEET SG010F SG10

TRACS NO. _____

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Plot Date: 11/1/2017
Plotted By: brenda.soto
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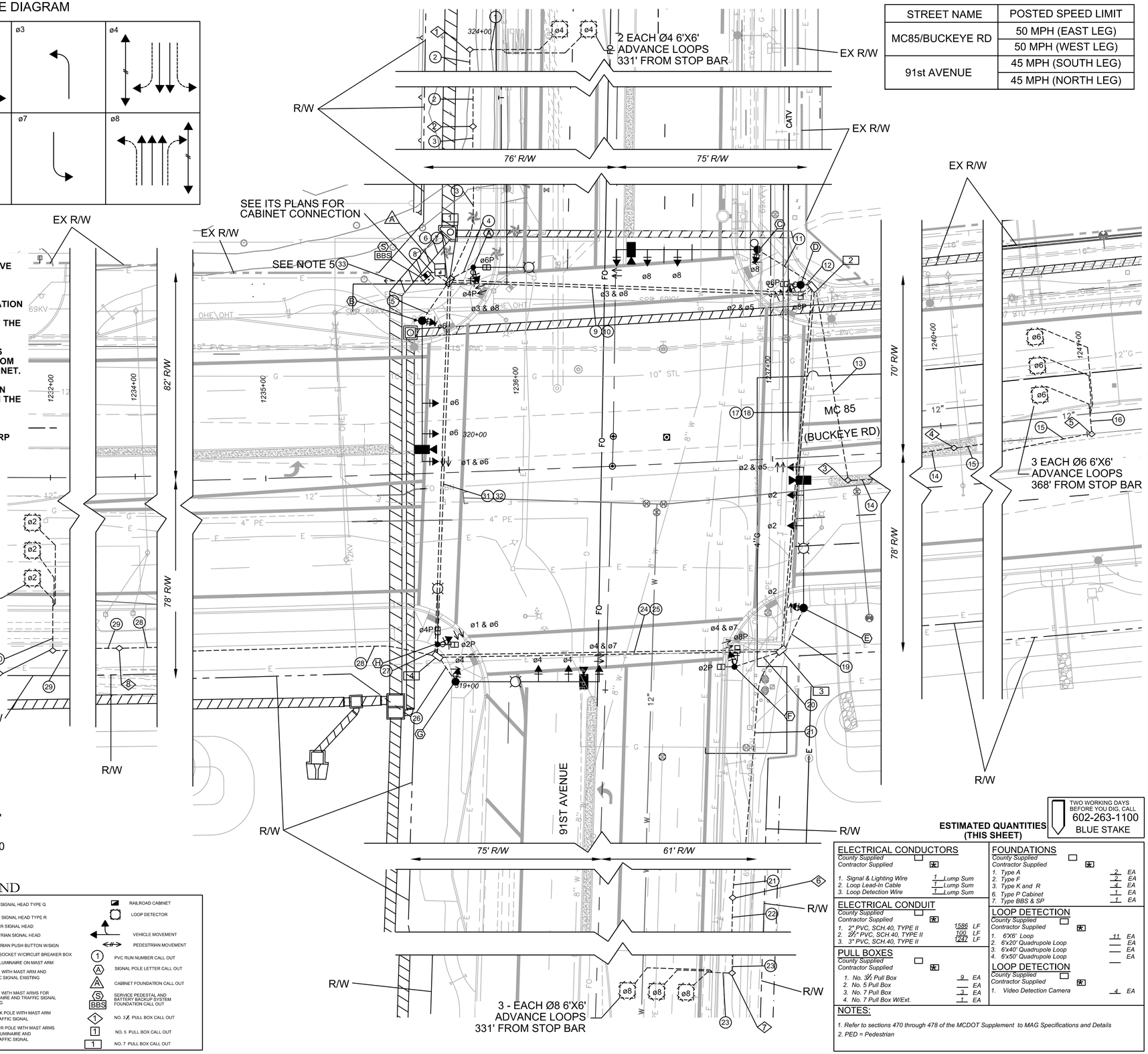
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Plot Date: 6/12/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signal Plan & Removal 01.dwg

PHASE DIAGRAM



NOTES:

1. **EXISTING SIGNALS SHALL REMAIN ACTIVE UNTIL THE SWITCH OVER TO NEW OR TEMPORARY SIGNALS.**
2. **THE CONTRACTOR SHALL VERIFY LOCATION AND OPERATION STATUS OF ALL ITS EQUIPMENT AND SHALL REINSTALL ON THE NEW SIGNAL POLES.**
3. **ALL CONDUCTORS AND WIRING FOR ITS EQUIPMENT SHALL BE CONTINUOUS FROM THE DEVICE TO THE CONTROLLER CABINET.**
4. **ADVANCE LOOPS (6' x 6') ARE PLACED IN ADVANCE OF THE STOP BAR BASED ON THE EXAMPLE CALCULATION (45MPH X 1.47 X 5 SEC = 331 FEET)**
5. **CONTRACTOR TO COORDINATE WITH SRP FOR POINT OF DELIVERY FOR SERVICE CONNECTION.**



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)

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
- SERVICE PEDESTAL AND BATTERY BACK-UP SYSTEM CABINET
- CONTROLLER CABINET
- "P" CABINET FOUNDATION w/CABINET PAD
- 2" PVC RUN
- LUMINAIRE OTHERS
- MCDOT SIGNAL POLE
- VIDEO DETECTION OR CCTV CAMERA
- FIRE PRE-EMPTION
- TRAFFIC SIGNAL HEAD TYPE F
- TRAFFIC SIGNAL HEAD TYPE G
- TRAFFIC SIGNAL HEAD TYPE Q
- TRAFFIC SIGNAL HEAD TYPE R
- FLASHER SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON W/SIGN
- METER SOCKET W/CIRCUIT BREAKER BOX
- MCDOT LUMINAIRE ON MAST ARM
- M POLE WITH MAST ARM AND TRAFFIC SIGNAL EXISTING
- M POLE WITH MAST ARMS FOR A LUMINAIRE AND TRAFFIC SIGNAL EXISTING
- E, J OR K POLE WITH MAST ARM AND TRAFFIC SIGNAL
- F, G OR R POLE WITH MAST ARMS FOR A LUMINAIRE AND TRAFFIC SIGNAL
- RAILROAD CABINET
- LOOP DETECTOR
- VEHICLE MOVEMENT
- PEDESTRIAN MOVEMENT
- PVC 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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	234	303	

ELECTRICAL CONDUIT

Run	Size	Length		Install Type	Run	Size	Length		Install Type
1	2"	13	LF	T	18	3"	145	LF	HB
2	2"	162	LF	T	19	3"	19	LF	T
3	2"	176	LF	T	20	2"	20	LF	T
4	2"	11	LF	T	21	2"	176	LF	T
5	3"	19	LF	T	22	2"	164	LF	T
6	3"	8	LF	T	23	2"	8	LF	T
7	3"	8	LF	T	24	3"	138	LF	HB
8	2"	6	LF	T	25	3"	138	LF	HB
9	3"	145	LF	HB	26	3"	12	LF	T
10	3"	145	LF	HB	27	2"	5	LF	T
11	3"	27	LF	T	28	2"	175	LF	T
12	2"	5	LF	T	29	2"	194	LF	T
13	2"	75	LF	HB	30	2"	17	LF	T
14	2"	273	LF	T	31	3"	149	LF	HB
15	2"	95	LF	T	32	3"	149	LF	HB
16	2"	11	LF	T	33	2½"	SEE NOTE 5		
17	3"	145	LF	HB					

CONDUIT LEGEND

- XX Conduit to Remain
- XX Conduit to Be Removed or Abandoned
- XX Install New Conduit

TYPE OF CONDUIT INSTALLATION:

T = Trenching
HB = Horizontal Boring

PULL BOXES

ITEM NUMBER	℄ STATION		OFFSET LT.	OFFSET RT.	ELEV
	#7 PULL BOX W/EXTENSION				
1	MC85	STA 1235+75	75'		
2	MC85	STA 1237+19	67'		
3	MC85	STA 1237+00		76'	
4	MC85	STA 1235+65		72'	
	#5 PULL BOX				
	#3½ PULL BOX				
1	91ST AVE	STA 323+93	58'		
2	91ST AVE	STA 322+33	57'		
3	MC85	STA 1237+29		10'	
4	MC85	STA 1240+04		9'	
5	MC85	STA 1241+02		8'	
6	91ST AVE	STA 317+45		53'	
7	91ST AVE	STA 315+83		53'	
8	MC85	STA 1233+93		68'	
9	MC85	STA 1232+01		68'	

POLE FOUNDATION

Type	Item					
F	A	MC85	STA 1235+85	81'		1002.44
K	B	MC85	STA 1235+64	60'		1002.28
K	C	MC85	STA 1237+98	83'		1001.66
A	D	MC85	STA 1237+15	68'		1001.67
R	E	MC85	STA 1237+09		59'	1001.93
A	F	MC85	STA 1236+81		81'	1001.80
R	G	MC85	STA 1235+72		82'	1002.36
F	H	MC85	STA 1235+65		67'	1002.28

BATTERY BACKUP SERVICE FOUNDATION LOCATION:

	TYPE	LOCATION	ELEV
BBS	SP/BBS	STA 1235+66 79' LT	1001.80

CONTROLLER CABINENT FOUNDATION LOCATION:

	TYPE	LOCATION	ELEV
A	P	STA 1235+72 79' LT	1001.83

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

ESTIMATED QUANTITIES (THIS SHEET)

ELECTRICAL CONDUCTORS
County Supplied ☐ *Contractor Supplied* ☒

1. Signal & Lighting Wire	1	Lump Sum
2. Loop Lead-In Cable	1	Lump Sum
3. Loop Detection Wire	1	Lump Sum

ELECTRICAL CONDUIT
County Supplied ☐ *Contractor Supplied* ☒

1. 2" PVC, SCH.40, TYPE II	1586	LF
2. 2½" PVC, SCH.40, TYPE II	100	LF
3. 3" PVC, SCH.40, TYPE II	1247	LF

PULL BOXES
County Supplied ☐ *Contractor Supplied* ☒

1. No. 3½ Pull Box	9	EA
2. No. 5 Pull Box	—	EA
3. No. 7 Pull Box	3	EA
4. No. 7 Pull Box W/Ext.	1	EA

FOUNDATIONS
County Supplied ☐ *Contractor Supplied* ☒

1. Type A	2	EA
2. Type F	2	EA
3. Type K and R	4	EA
6. Type P Cabinet	1	EA
7. Type BBS & SP	1	EA

LOOP DETECTION
County Supplied ☐ *Contractor Supplied* ☒

1. 6'X6' Loop	11	EA
2. 6'x20' Quadrupole Loop	—	EA
3. 6'x40' Quadrupole Loop	—	EA
4. 6'x50' Quadrupole Loop	—	EA

LOOP DETECTION
County Supplied ☐ *Contractor Supplied* ☒

1. Video Detection Camera	4	EA

NOTES:

1. Refer to sections 470 through 478 of the MCDOT Supplement to MAG Specifications and Details
2. PED = Pedestrian

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 59794 TAYLOR SWANSON Date Signed 6/15/18 ARIZONA, U.S.A. Expires 06/30/2021

	BY	DATE
DESIGNED	T. Swanson	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

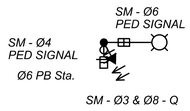
MC 85 & 91ST AVENUE SIGNAL PLAN

SHEET SG020F SG10

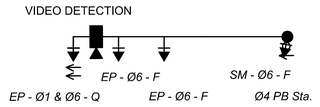
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POLE SCHEDULE & LOCATION

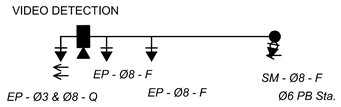
A — TYPE *F*
STA *1235+85 81'LT*
250W EQ/LED LUMINAIRE W/ 20' MA



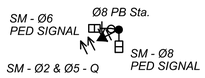
B — TYPE *K-55*
STA *1235+64 60'LT*



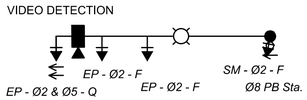
C — TYPE *K-55*
STA *1237+98 83'LT*



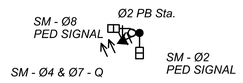
D — TYPE A-16'
STA *1237+15 68'LT*



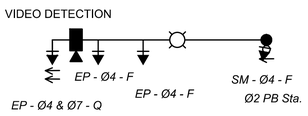
E — TYPE *R-55*
STA *1237+09 59'RT*
250W EQ/LED LUMINAIRE W/ 20' MA



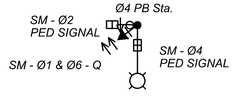
F — TYPE *A-16'*
STA *1236+81 81'RT*



G — TYPE *R-55*
STA *1235+72 82'RT*
250W EQ/LED LUMINAIRE W/ 20' MA



H — TYPE *F*
STA *1235+65 67'RT*
250W EQ/LED LUMINAIRE W/ 20' MA



ABBREVIATIONS

EP = ELEVATED PLUMBIZER SIGNAL INDICATION MOUNTING (TYPE 2)
SM = SIDE MOUNT SIGNAL INDICATION MOUNTING (TYPE 11)
PED = PEDESTRIAN INDICATION (TYPE 11)
PB Sta. = PEDESTRIAN PUSH BUTTON STATION

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	22	23	24	25	26	27	28	29	30	31	32	33
	CONDUIT SIZE INCHES	2	2	2	2	3	3	3	2	3	3	3	2	2	2	2	2	3	3	3	2	2	2	2	3	3	3	2	2	2	2	3	3	2½
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							2	
	ø4 PED P.B.					1	2																					1						1
	ø6 PED P.B.				1		2			1	1																							
	ø8 PED P.B.						2			1		1								1						1								1
▲	ø1 LEAD-IN CABLE																																	
	ø2 LEAD-IN CABLE						1																						1	1	6		1	
	ø3 LEAD-IN CABLE																																	
	ø4 LEAD-IN CABLE	4	1	1			1																											
	ø5 LEAD-IN CABLE																																	
	ø6 LEAD-IN CABLE						1			1				1	1	1	6																	
	ø7 LEAD-IN CABLE																																	
	ø8 LEAD-IN CABLE						1															1	1	6		1								1
	CABLE SPARES																																	
■	RAILROAD PRE-EMPTION																																	
■■	FIRE PRE-EMPTION					1	4			1	1									1						1	1							2
▲▲	VIDEO DETECTION					1	4			1	1									1						1	1							2
⧗	TELEPHONE CABLE																																	
#12	LIGHTING LOAD BLACK					1	1			1								1		1						1		1					1	
#12	LIGHTING LOAD WHITE					1	1			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
	12 SMFO CABLE						1																											

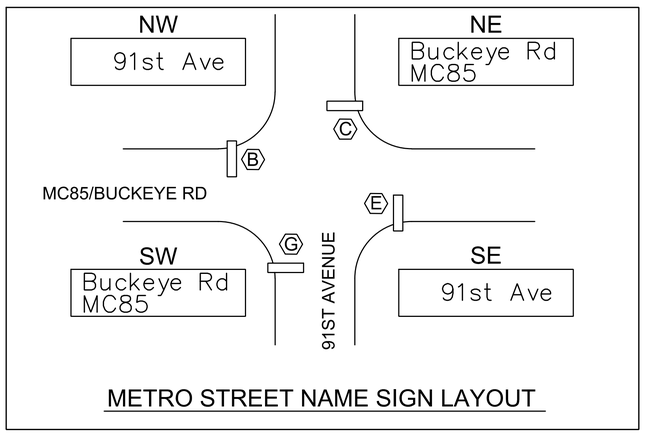
CONDUCTORS PER POWER COMPANY REQUIREMENTS

- ● IMSA 19-1 CABLE, NO. 14 AWG, 20 CONDUCTOR - (SEE 4799 FOR CABLE CONDUCTOR COLOR CODE)
- ■ IMSA 19-1 CABLE, NO. 14 AWG, 4 AND 7 CONDUCTOR - (SEE 4799 FOR CABLE CONDUCTOR COLOR CODE)
- ⬢ IMSA 19-1 CABLE, NO. 14 AWG, 2 CONDUCTOR - (SEE 4799 FOR CABLE CONDUCTOR COLOR CODE)
- ■■ FIRE PRE-EMPTION CABLE
- ▲▲ VIDEO CABLE
- ▲ IMSA 50-2 CABLE, NO.14 AWG
- ⧗ TELEPHONE CABLE, IMSA 40-2
- * LOOP WIRING
- \+ IMSA 19-1, 7-CONDUCTOR WIRING TO BE INSTALLED AT ALL EXISTING AND FUTURE PROTECTIVE/PERMISSIVE SIGNAL INDICATIONS

NOTE:
1) LOOP WIRE SHALL BE USE-XLPE, NO. 14 AWG STRANDED.
2) SIGNAL WIRE NO. 8, 10, 12, AND 14 SHALL BE EITHER THW OR THWN.
3) SERVICE 120/240 VOLT WIRING AS PER THE POWER UTLITIES' REQUIREMNTS.

SIGNAL CONSTRUCTION NOTES:

1. FOR TRAFFIC SIGNAL MATERIALS, EQUIPMENT AND INSTALLATION REFER TO SECTIONS 470 THROUGH 478 OF THE MCDOT SUPPLEMENT TO THE MAG SPECIFICATIONS, (2014) AND STANDARD DETAILS.
2. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ALL UTILITIES INVOLVED MAY NOT BE SHOWN. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL CONTACT "BLUESTAKE" AT 602-263-1100 PRIOR TO START OF WORK.
4. ALL TRAFFIC CABINET AND SIGNAL POLE FOUNDATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THAT LOCATIONS DESIGNATED DO NOT CONFLICT WITH EXISTING UTILITIES OR OTHER OBJECTS PRIOR TO PLACEMENT.
5. THE CONTRACTOR SHALL CONTACT THE MCDOT TRAFFIC SIGNAL BRANCH MANAGER AT 602-506-8660 FOR APPROVAL TO PROCEED WITH FOUNDATION CONSTRUCTION PRIOR TO CONSTRUCTION OF A TRAFFIC POLE FOUNDATION OR TRAFFIC CABINET FOUNDATION LOCATED OTHER THAN AS SHOWN ON APPROVED PLANS.
6. THE CONTRACTOR SHALL CONTACT MCDOT TO DETERMINE IF CONDUIT ENCASEMENT IS REQUIRED. CONDUIT ENCASEMENT IS AN ALLOWANCE AT THE INTERSECTION.
7. THE CONTRACTOR SHALL CONTACT MCDOT ITS SPECIALIST AT 602.506.9025 OR 602.723.5575 FOR TRAFFIC SIGNAL COMMUNICATION EQUIPMENT, MATERIALS AND INSTALLATION REQUIREMENTS.
8. THE CONTRACTOR SHALL CONTACT CHRIS PARKLLAN (PHOENIX SIGNAL SHOP FOREMAN) AT 602.509.2423 FOR THE FIRE PRE-EMPTION CABLES. THE CONTRACTOR SHALL PRE-WIRE THE INTERSECTION WITH THE FIRE PRE-EMPTION CABLES.
9. PRIOR TO RECEIVING SIGNAL EQUIPMENT FROM MCDOT, THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSION OF EACH SIGNAL MAST ARM LENGTH NEEDED FOR SIGNAL INSTALLATION.



METRO STREET NAME SIGN LAYOUT

CONTROLLER CABINET ASSEMBLY			
P	CABINET TYPE P-44	NEMA ASSEMBLY CONFIGURATION	TS 2 TYPE 1
REMARK: 1) P.E.C. MOUNTED ON CABINET TOP			

ELECTRICAL POWER SERVICE			
UTILITY CO. SRP	SERVICE HOOK-UP TYPE 5	METERED	X
		UNMETERED	

ELECTRICAL POWER SERVICE ADDRESS:
9100 W. BUCKEYE RD., TS
TOLLESON, AZ 85323

NOTES:

1. METRO SIGN LAYOUT SHALL BE USED ON ALL TRAFFIC SIGNAL PLANS UNLESS OTHERWISE SPECIFIED.
2. METRO SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE MCDOT SUPPLEMENT, SECTION 465: MCDOT TRAFFIC SIGN MANUAL, SIGNAL AND SIGNING PLANS.
3. SEE MCDOT STD. DETAILS 4780-2, 4780-3, AND 4780-4.

NO.	REVISION	BY	DATE
4			
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 59794 TAYLOR SWANSON Date Signed 6/15/18 ARIZONA, U.S.A. Expires 06/30/2021

	BY	DATE
DESIGNED	T. Swanson	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

MC 85 & 91ST AVENUE POLE AND CONDUCTOR SCHEDULE

SHEET SG030F SG10

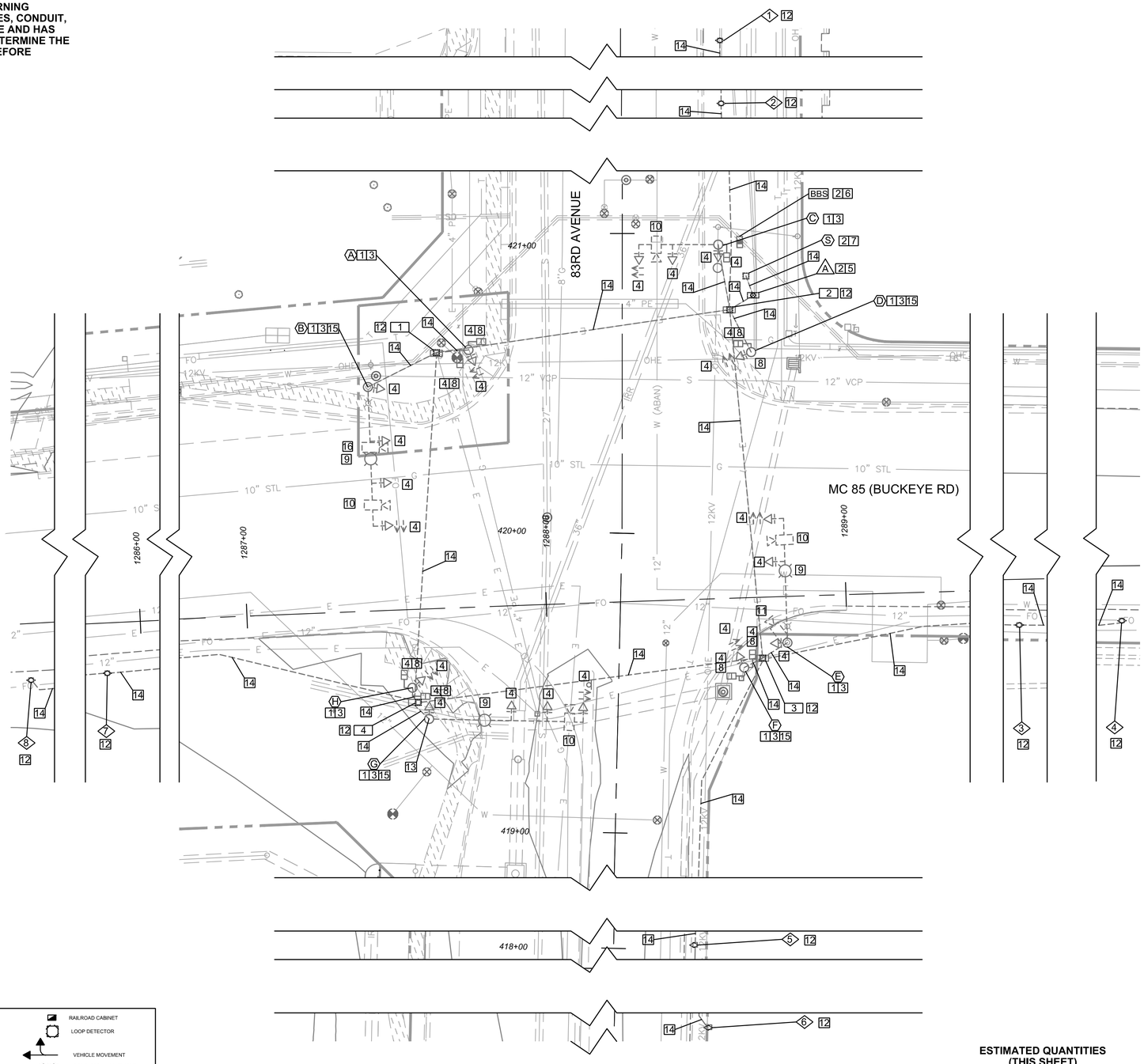
TRACS NO. _____

Plot Time: 9:22:54am
Plot Date: 6/12/2018
Plotted By: 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.**



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
- SERVICE PEDESTAL AND BATTERY BACK-UP SYSTEM CABINET
- CONTROLLER CABINET
- "P" CABINET FOUNDATION w/CABINET PAD
- 2" PVC RUN
- LUMINAIRE OTHERS
- MCDOT SIGNAL POLE
- VIDEO DETECTION OR CCTV CAMERA
- FIRE PRE-EMPTION
- TRAFFIC SIGNAL HEAD TYPE F
- TRAFFIC SIGNAL HEAD TYPE G
- TRAFFIC SIGNAL HEAD TYPE Q
- TRAFFIC SIGNAL HEAD TYPE R
- FLASHER SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON W/SIGN
- METER SOCKET W/CIRCUIT BREAKER BOX
- MCDOT LUMINAIRE ON MAST ARM
- M POLE WITH MAST ARM AND TRAFFIC SIGNAL EXISTING
- M POLE WITH MAST ARMS FOR A LUMINAIRE AND TRAFFIC SIGNAL EXISTING
- E, J OR K POLE WITH MAST ARM AND TRAFFIC SIGNAL
- F, Q OR R POLE WITH MAST ARMS FOR A LUMINAIRE AND AND TRAFFIC SIGNAL
- RAILROAD CABINET
- LOOP DETECTOR
- VEHICLE MOVEMENT
- PEDESTRIAN MOVEMENT
- (1) PVC RUN NUMBER CALL OUT
- (A) SIGNAL POLE LETTER CALL OUT
- (A) CABINET FOUNDATION CALL OUT
- (S) SERVICE PEDESTAL AND BATTERY BACKUP SYSTEM FOUNDATION CALL OUT
- (BBS) BATTERY BACKUP SYSTEM CABINET AND FOUNDATION CALL OUT
- (1) NO. 3½ PULL BOX CALL OUT
- [1] NO. 5 PULL BOX CALL OUT
- [1] NO. 7 PULL BOX CALL OUT

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

ESTIMATED QUANTITIES (THIS SHEET)

BATTERY BACKUP SYSTEM CABINET	1	EA
POLES & FOUNDATIONS	8	EA
PULL BOXES	12	EA
CONTROL CABINET	1	EA
SERVICE CABINET	1	EA
SIGNAL INDICATIONS	26	EA
PEDESTRIAN PUSH BUTTONS	8	EA

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	236	303	

☐ REMOVAL/RELOCATE ☐

[1]	REMOVE POLE FOUNDATION	8 - EA
[2]	REMOVE CABINET FOUNDATION	3 - EA
[3]	REMOVE AND SALVAGE POLE AND MAST ARM	8 - EA
[4]	REMOVE AND SALVAGE SIGNAL AND PEDESTRIAN INDICATIONS	26 - EA
[5]	REMOVE AND SALVAGE CONTROL CABINENTS	1 - EA
[6]	REMOVE AND SALVAGE BATTERY BACKUP SYSTEM	1 - EA
[7]	REMOVE AND SALVAGE SERVICE PEDESTAL CABINET	1 - EA
[8]	REMOVE AND SALVAGE PEDESTRIAN PUSH BUTTON STATION WITH SIGN	8 - EA
[9]	REMOVE AND SALVAGE LUMINAIRE LIGHT FIXTURE AND MAST ARM	3 - EA
[10]	REMOVE AND SALVAGE VIDEO DETECTION SYSTEM	4 - EA
[11]	RELOCATE EXISTING CCTV SYSTEM	1 - EA
[12]	REMOVE PULL BOX	12 - EA
[13]	REMOVE AND RELOCATE ITS WIRELESS RADIO ANTENNA	1 - EA
[14]	REMOVE CONDUCTORS AND ABANDON CONDUIT	LUMP SUM
[15]	REMOVE AND SALVAGE STREET NAME SIGN	4 - EA
[16]	REMOVE AND SALVAGE EXISTING CCTV MOUNT	1 - EA

N

REMOVALS

- (1) #3½ PULL BOX
- (A) POLE AND FOUNDATION
- (A) CONTROLLER CABINET AND FOUNDATION
- (S) SERVICE CABINET AND FOUNDATION
- [X] #7 PULL BOX
- [BBS] BATTERY BACKUP SYSTEM CABINET AND FOUNDATION

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Professional Engineer (Civil) 39165 RAY P. YPARRAGUIRRE Date Signed 11/1/17 ARIZONA, U.S.A. Expires 06/30/2018

	BY	DATE
DESIGNED	R. Yparraguirre	11/2017
DRAWN	B. Soto	11/2017
CHECKED	K. Carroll	11/2017

Kimley»Horn

MC 85 & 83RD AVENUE REMOVAL PLAN

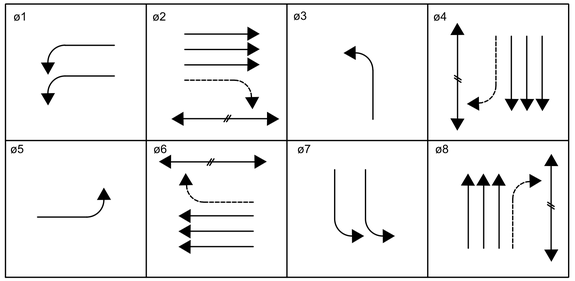
SHEET SG040F SG10

TRACS NO. _____

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Plot Date: 11/1/2017
Plotted By: brenda.soto
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Plot Time: 9:24:17am
Plot Date: 6/12/2018
Plotted By: mark.flood
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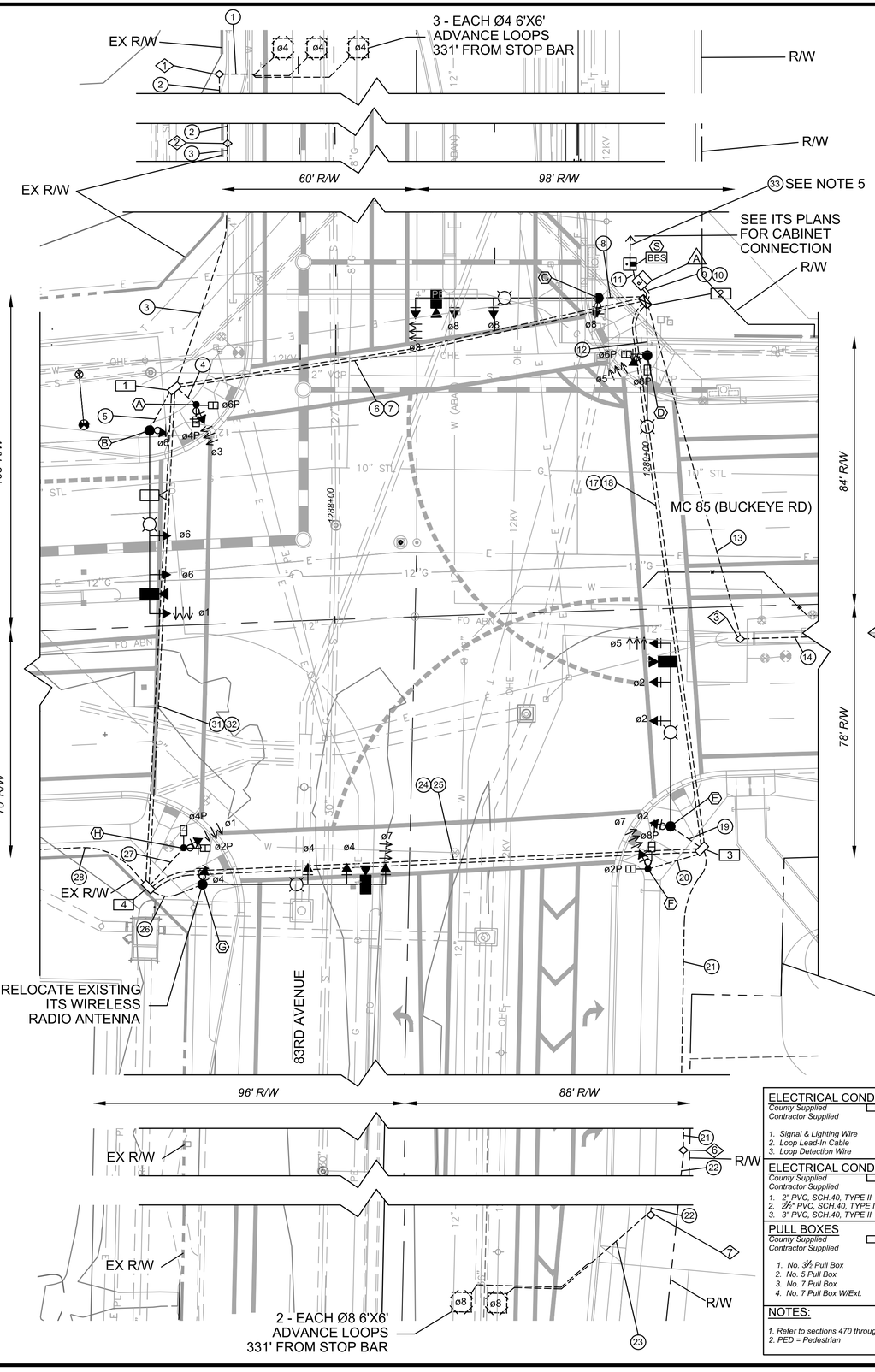
PHASE DIAGRAM



NOTES:

1. **EXISTING SIGNALS SHALL REMAIN ACTIVE UNTIL THE SWITCHED OVER TO NEW OR TEMPORARY SIGNALS.**
2. **THE CONTRACTOR SHALL VERIFY LOCATION AND OPERATION STATUS OF ALL ITS EQUIPMENT AND SHALL BE REINSTALLED ON THE NEW SIGNAL POLES.**
3. **ALL CONDUCTORS AND WIRING FOR ITS EQUIPMENT SHALL BE CONTINUOUS FROM THE DEVICE TO THE CONTROLLER CABINET.**
4. **ADVANCE LOOPS (6' x 6') ARE PLACED IN ADVANCE OF THE STOP BAR BASED ON THE EXAMPLE CALCULATION (45MPH X 1.47 X 5 SEC = 331 FEET)**
5. **CONTRACTOR TO COORDINATE WITH SRP FOR POINT OF DELIVERY FOR SERVICE CONNECTION.**

STREET NAME	POSTED SPEED LIMIT
MC85/BUCKEYE RD	50 MPH (EAST LEG)
	50 MPH (WEST LEG)
83rd AVENUE	45 MPH (SOUTH LEG)
	45 MPH (NORTH LEG)



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
- SERVICE PEDESTAL AND BATTERY BACK-UP SYSTEM CABINET
- CONTROLLER CABINET
- "P" CABINET FOUNDATION w/CABINET PAD
- 2" PVC RUN
- LUMINAIRE OTHERS
- MCDOT SIGNAL POLE
- VIDEO DETECTION OR CCTV CAMERA
- FIRE PRE-EMPTION
- TRAFFIC SIGNAL HEAD TYPE F
- TRAFFIC SIGNAL HEAD TYPE G
- TRAFFIC SIGNAL HEAD TYPE Q
- TRAFFIC SIGNAL HEAD TYPE R
- FLASHER SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON W/SIGN
- METER SOCKET W/CIRCUIT BREAKER BOX
- MCDOT LUMINAIRE ON MAST ARM
- M POLE WITH MAST ARM AND TRAFFIC SIGNAL EXISTING
- M POLE WITH MAST ARMS FOR A LUMINAIRE AND TRAFFIC SIGNAL EXISTING
- E, J OR K POLE WITH MAST ARM AND TRAFFIC SIGNAL
- F, Q OR R POLE WITH MAST ARMS FOR A LUMINAIRE AND AND TRAFFIC SIGNAL
- RAILROAD CABINET
- LOOP DETECTOR
- VEHICLE MOVEMENT
- PEDESTRIAN MOVEMENT
- PVC 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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	237	303	

ELECTRICAL CONDUIT

Run	Size	Length	Install Type	Run	Size	Length	Install Type
1	2"	7 LF	T	18	3"	174 LF	HB
2	2"	158 LF	T	19	3"	13 LF	T
3	2"	178 LF	T	20	2"	18 LF	T
4	2"	9 LF	T	21	2"	196 LF	T
5	3"	15 LF	T	22	2"	121 LF	T
6	3"	148 LF	HB	23	2"	24 LF	T
7	3"	148 LF	HB	24	3"	173 LF	HB
8	3"	15 LF	T	25	3"	173 LF	HB
9	3"	8 LF	T	26	3"	18 LF	T
10	3"	8 LF	T	27	2"	17 LF	T
11	3"	7 LF	T	28	2"	167 LF	T
12	2"	16 LF	T	29	2"	196 LF	T
13	2"	105 LF	HB	30	2"	17 LF	T
14	2"	273 LF	T	31	3"	156 LF	HB
15	2"	63 LF	T	32	3"	156 LF	HB
16	2"	9 LF	T	33	2½"	SEE NOTE 5	
17	3"	174 LF	HB				

CONDUIT LEGEND

- (XX) Conduit to Remain
- (XX) Conduit to Be Removed or Abandoned
- (XX) Install New Conduit

TYPE OF CONDUIT INSTALLATION:

T = Trenching
HB = Horizontal Boring

PULL BOXES

ITEM NUMBER	℄ STATION		OFFSET LT.	OFFSET RT.	ELEV
	#7 PULL BOX W/EXTENSION				
1	MC85	STA 1287+53	73'		
2	MC85	STA 1288+99	95'		
3	MC85	STA 1289+11		74'	
4	MC85	STA 1287+39		80'	
	#5 PULL BOX				
	#3½ PULL BOX				
1	83rd AVE	STA 423+79	61'		
2	83rd AVE	STA 422+22	58'		
3	MC85	STA 1289+25		10'	
4	MC85	STA 1292+00		10'	
5	MC85	STA 1292+66		2'	
6	83rd AVE	STA 417+15		86'	
7	83rd AVE	STA 415+96		76'	
8	MC85	STA 1285+78		68'	
9	MC85	STA 1283+81		67'	
	POLE FOUNDATION				
Type	Item				
A	A	MC85	STA 1287+60	68'	1009.00
R	B	MC85	STA 1287+45	60'	1009.14
R	C	MC85	STA 1288+84	96'	1008.96
F	D	MC85	STA 1289+99	78'	1008.78
R	E	MC85	STA 1289+02	67'	1008.90
A	F	MC85	STA 1288+94	80'	1008.86
R	G	MC85	STA 1287+56	80'	1009.10
A	H	MC85	STA 1287+50	69'	1008.99

BATTERY BACKUP SERVICE FOUNDATION LOCATION:

	TYPE	LOCATION	ELEV
S BBS	SP/BBS	STA 1288+95 106' LT	1008.89

CONTROLLER CABINET FOUNDATION LOCATION:

	TYPE	LOCATION	ELEV
A	P	STA 1288+97 101' LT	1008.93

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

ESTIMATED QUANTITIES (THIS SHEET)

ELECTRICAL CONDUCTORS
County Supplied
Contractor Supplied

1. Signal & Lighting Wire	1	Lump Sum
2. Loop Lead-In Cable	1	Lump Sum
3. Loop Detection Wire	1	Lump Sum

ELECTRICAL CONDUIT
County Supplied
Contractor Supplied

1. 2" PVC, SCH.40, TYPE II	1574	LF
2. 2½" PVC, SCH.40, TYPE II	100	LF
3. 3" PVC, SCH.40, TYPE II	288	LF

PULL BOXES
County Supplied
Contractor Supplied

1. No. 3½ Pull Box	9	EA
2. No. 5 Pull Box	—	EA
3. No. 7 Pull Box	3	EA
4. No. 7 Pull Box W/Ext.	1	EA

FOUNDATIONS
County Supplied
Contractor Supplied

1. Type A	3	EA
2. Type F	1	EA
3. Type Q and J	—	EA
4. Type K and R	4	EA
5. Type SP	—	EA
6. Type P Cabinet	1	EA
7. Type BBS & SP	1	EA

LOOP DETECTION
County Supplied
Contractor Supplied

1. 6'X6' Loop	11	EA
2. 6'x20' Quadrupole Loop	—	EA
3. 6'x40' Quadrupole Loop	—	EA
4. 6'x50' Quadrupole Loop	—	EA

VIDEO DETECTION
County Supplied
Contractor Supplied

1. Video Detection Camera	4	EA

NOTES:

1. *Refer to sections 470 through 478 of the MCDOT Supplement to MAG Specifications and Details*
2. *PED = Pedestrian*

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE & CENTER TURN LANE EXPANSION PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 59794 TAYLOR SWANSON Date Signed 6/15/18 ARIZONA, USA. Expires 06/30/2021

	BY	DATE
DESIGNED	T. Swanson	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

MC 85 & 83RD AVENUE SIGNAL PLAN

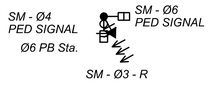
SHEET SG050F SG10

TRACS NO. _____

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	238	303	

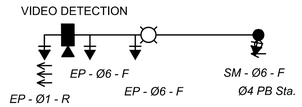
POLE SCHEDULE & LOCATION

A — TYPE *A-16'* STA *1287+60 68'LT*



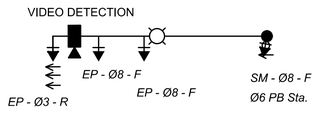
B — TYPE *R-55* STA *1287+45 60'LT*

250W EQ/LED LUMINAIRE W/ 20' MA



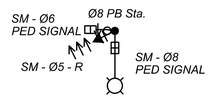
C — TYPE *R-55* STA *1288+84 96'LT*

250W EQ/LED LUMINAIRE W/ 20' MA



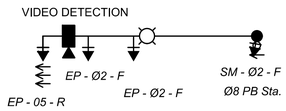
D — TYPE *F* STA *1289+99 78'LT*

250W EQ/LED LUMINAIRE W/ 20' MA

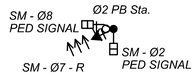


E — TYPE *R-55* STA *1289+02 67'RT*

250W EQ/LED LUMINAIRE W/ 20' MA

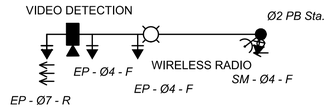


F — TYPE *A-16'* STA *1288+94 80'RT*

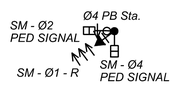


G — TYPE *R-55* STA *1287+56 80'RT*

250W EQ/LED LUMINAIRE W/ 20' MA
RELOCATE WIRELESS RADIO



H — TYPE *A-16'* STA *1287+50 69'RT*



ABBREVIATIONS

EP = ELEVATED PLUMBIZER SIGNAL INDICATION MOUNTING (TYPE 2)
SM = SIDE MOUNT SIGNAL INDICATION MOUNTING (TYPE 11)
PED = PEDESTRIAN INDICATION (TYPE 11)
PB Sta. = PEDESTRIAN PUSH BUTTON STATION

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	22	23	24	25	26	27	28	29	30	31	32	33
	CONDUIT SIZE INCHES	2	2	2	2	3	3	3	3	3	3	3	2	2	2	2	2	3	3	3	2	2	2	2	3	3	3	2	2	2	2	3	3	2½
AWG	CIRCUIT PHASE																																	
●	IMSA CABLE 19-1						2			2								2							2							2		
#10	COMMON WHITE						2			2								2							2							2		
■	ø1 VEH IMSA CABLE 19-1					1																						1						
	ø2 VEH																			3														
	ø3 VEH				1				1																									
	ø4 VEH																										3							
	ø5 VEH												1							1														
	ø6 VEH					3																												
	ø7 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									2		1				1	1								
	ø4 PED P.B.					1		1		2									1						1			1						
	ø6 PED P.B.				1			1	1	2																								
	ø8 PED P.B.									2			1						1	1														
▲	ø1 LEAD-IN CABLE																																	
	ø2 LEAD-IN CABLE									1									1							1			1	1	6			
	ø3 LEAD-IN CABLE																																	
	ø4 LEAD-IN CABLE	6	1	1			1			1																								
	ø5 LEAD-IN CABLE																																	
	ø6 LEAD-IN CABLE									1				1	1	1	6																	
	ø7 LEAD-IN CABLE																																	
	ø8 LEAD-IN CABLE									1									1		1			4										
	CABLE SPARES																																	
■	RAILROAD PRE-EMPTION																																	
■■	FIRE PRE-EMPTION					1		1	1	4									2	1					1	1								
▲▲	VIDEO DETECTION					1		1	1	4									2	1					1	1								
⧗	TELEPHONE CABLE																																	
#12	LIGHTING LOAD BLACK					1	1		1	1			1						1		1				1		1					1		
#12	LIGHTING LOAD WHITE					1	1		1	1			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	
	12 SMFO CABLE									1																								
	12 SMFO (WIRELESS RADIO)									1									1							1	1								

CONDUCTORS PER POWER COMPANY REQUIREMENTS

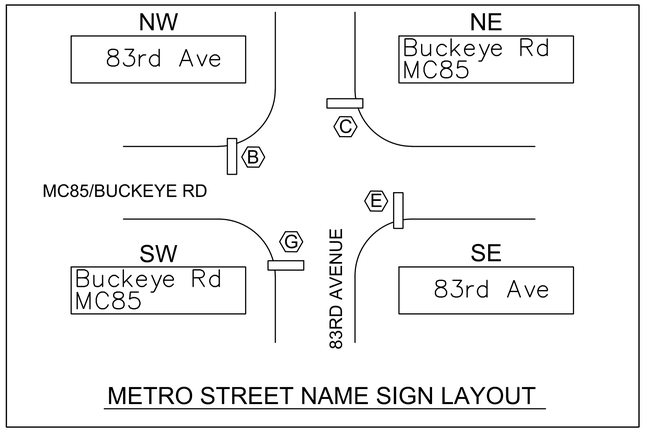
- ● IMSA 19-1 CABLE, NO. 14 AWG, 20 CONDUCTOR - (SEE 4799 FOR CABLE CONDUCTOR COLOR CODE)
- ■ IMSA 19-1 CABLE, NO. 14 AWG, 4 AND 7 CONDUCTOR - (SEE 4799 FOR CABLE CONDUCTOR COLOR CODE)
- ⬟ IMSA 19-1 CABLE, NO. 14 AWG, 2 CONDUCTOR - (SEE 4799 FOR CABLE CONDUCTOR COLOR CODE)
- ■■ FIRE PRE-EMPTION CABLE
- ▲▲ VIDEO CABLE
- ▲ IMSA 50-2 CABLE, NO.14 AWG
- ⧗ TELEPHONE CABLE, IMSA 40-2
- * LOOP WIRING
- \+ IMSA 19-1, 7-CONDUCTOR WIRING TO BE INSTALLED AT ALL EXISTING AND FUTURE PROTECTIVE/PERMISSIVE SIGNAL INDICATIONS

NOTE:

1) LOOP WIRE SHALL BE USE-XLPE, NO. 14 AWG STRANDED.
2) SIGNAL WIRE NO. 8, 10, 12, AND 14 SHALL BE EITHER THW OR THWN.
3) SERVICE 120/240 VOLT WIRING AS PER THE POWER UTLITIES' REQUIREMNTS.

SIGNAL CONSTRUCTION NOTES:

1. FOR TRAFFIC SIGNAL MATERIALS, EQUIPMENT AND INSTALLATION REFER TO SECTIONS 470 THROUGH 478 OF THE MCDOT SUPPLEMENT TO THE MAG SPECIFICATIONS, (2014) AND STANDARD DETAILS.
2. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ALL UTILITIES INVOLVED MAY NOT BE SHOWN. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL CONTACT "BLUESTAKE" AT 602-263-1100 PRIOR TO START OF WORK.
4. ALL TRAFFIC CABINET AND SIGNAL POLE FOUNDATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THAT LOCATIONS DESIGNATED DO NOT CONFLICT WITH EXISTING UTILITIES OR OTHER OBJECTS PRIOR TO PLACEMENT.
5. THE CONTRACTOR SHALL CONTACT THE MCDOT TRAFFIC SIGNAL BRANCH MANAGER AT 602-506-8660 FOR APPROVAL TO PROCEED WITH FOUNDATION CONSTRUCTION PRIOR TO CONSTRUCTION OF A TRAFFIC POLE FOUNDATION OR TRAFFIC CABINET FOUNDATION LOCATED OTHER THAN AS SHOWN ON APPROVED PLANS .
6. THE CONTRACTOR SHALL CONTACT MCDOT TO DETERMINE IF CONDUIT ENCASEMENT IS REQUIRED. CONDUIT ENCASEMENT IS AN ALLOWANCE AT THE INTERSECTION.
7. THE CONTRACTOR SHALL CONTACT MCDOT ITS SPECIALIST AT 602.506.9025 OR 602.723.5575 FOR TRAFFIC SIGNAL COMMUNICATION EQUIPMENT, MATERIALS AND INSTALLATION REQUIREMENTS.
8. THE CONTRACTOR SHALL CONTACT CHRIS PARKLLAN (PHOENIX SIGNAL SHOP FOREMAN) AT 602.509.2423 FOR THE FIRE PRE-EMPTION CABLES. THE CONTRACTOR SHALL PRE-WIRE THE INTERSECTION WITH THE FIRE PRE-EMPTION CABLES.
9. PRIOR TO RECEIVING SIGNAL EQUIPMENT FROM MCDOT, THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSION OF EACH SIGNAL MAST ARM LENGTH NEEDED FOR SIGNAL INSTALLATION.



METRO STREET NAME SIGN LAYOUT

NOTES:

1. METRO SIGN LAYOUT SHALL BE USED ON ALL TRAFFIC SIGNAL PLANS UNLESS OTHERWISE SPECIFIED.
2. METRO SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE MCDOT SUPPLEMENT, SECTION 465: MCDOT TRAFFIC SIGN MANUAL, SIGNAL AND SIGNING PLANS.
3. SEE MCDOT STD. DETAILS 4780-2, 4780-3, AND 4780-4.

CONTROLLER CABINET ASSEMBLY			
P	CABINET TYPE: P-44	NEMA ASSEMBLY CONFIGURATION: TS 2 TYPE 1	
REMARK: 1) P.E.C. MOUNTED ON CABINET TOP			

ELECTRICAL POWER SERVICE			
UTILITY CO.: SRP	SERVICE HOOK-UP TYPE: 5	METERED	X
		UNMETERED	

ELECTRICAL POWER SERVICE ADDRESS:
8252 W. BUCKEYE RD., TS
TOLLESON, AZ 85323

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) — 39165 — RAY P. YPARRAGUIRRE — Date Signed 11/1/17 — ARIZONA, U.S.A. — Expires 06/30/2018

	BY	DATE
DESIGNED	R. Yparraguirre	11/2017
DRAWN	B. Soto	11/2017
CHECKED	K. Carroll	11/2017

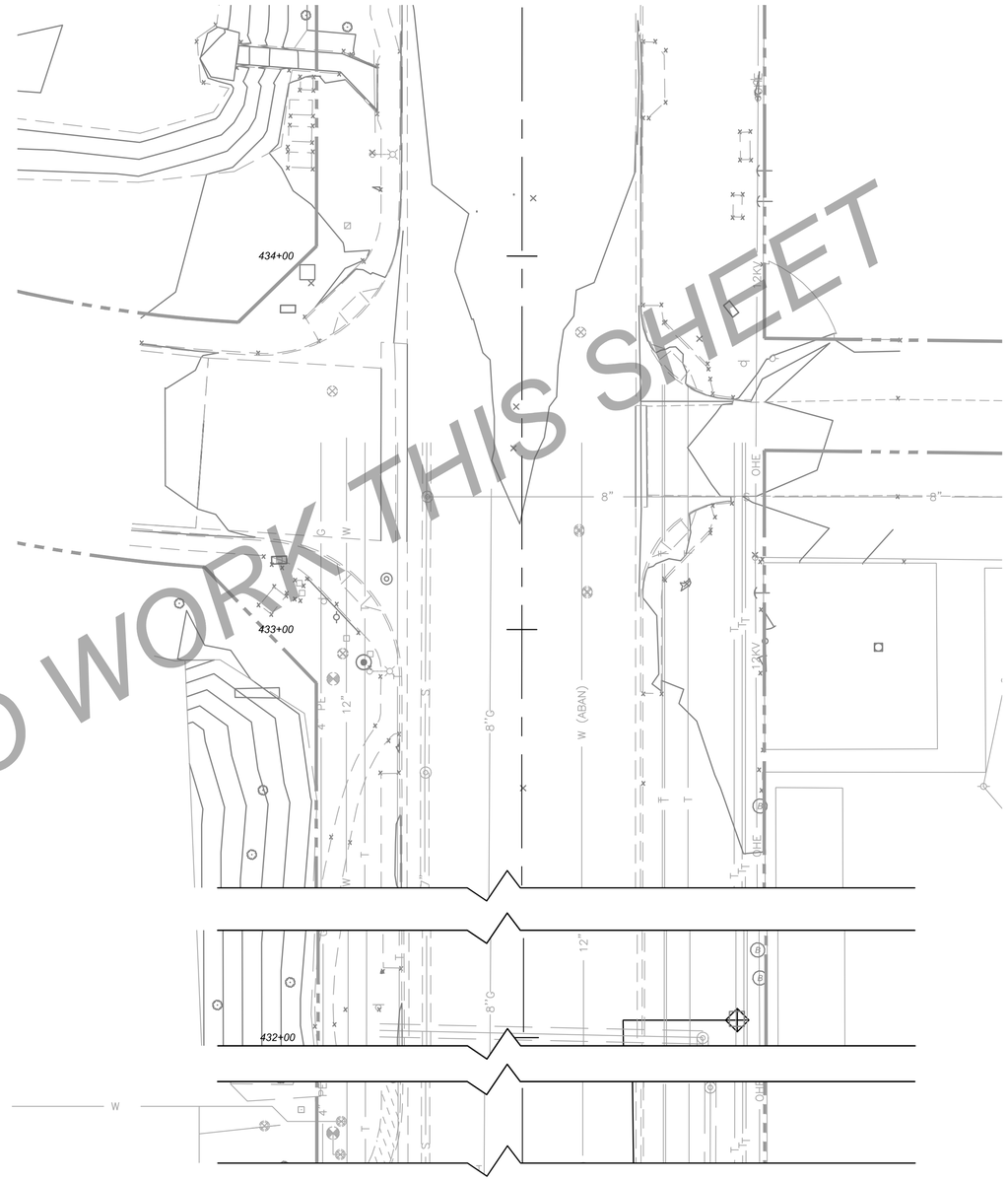
Kimley»Horn

MC 85 & 83RD AVENUE POLE SCHEDULE

SHEET SG060F SG10

TRACS NO. _____

Plot Time: 9:04:37am
Plot Date: 11/1/2017
Plotted By: brenda.soto
K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Signals\Signals\Signal Plan & Removal 08.dwg



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	239	303	

☐ REMOVAL/RELOCATE ☐

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
CERTIFICATE NO.
59794
TAYLOR
SWANSON
Date Signed 6/5/18
ARIZONA, U.S.A.
Expires 06/30/2021

	BY	DATE
DESIGNED	T. Swanson	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

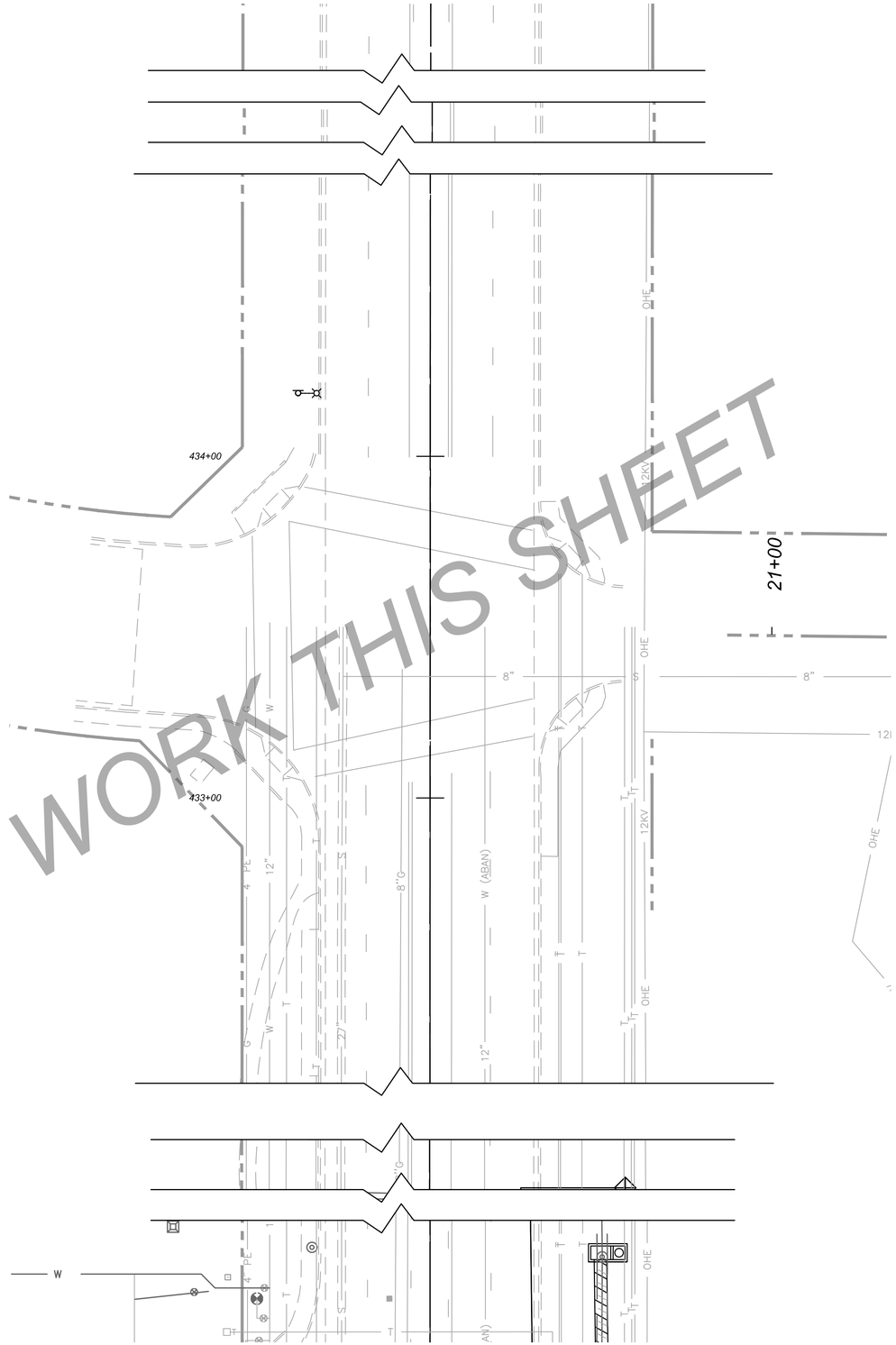
SHERMAN STREET & 83RD AVENUE REMOVAL PLAN

SHEET SG07 OF SG10

TRACS NO. _____

Plot Time: 9:44:17am
Plot Date: 6/12/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signals\Signal Plan & Removal 12.dwg

NO WORK THIS SHEET



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	240	303	

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
CERTIFICATE NO.
59794
TAYLOR SWANSON
Date Signed 6/15/18
ARIZONA, U.S.A.
Expires 06/30/2021

	BY	DATE
DESIGNED	T. Swanson	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

Kimley»Horn

SHERMAN STREET & 83RD AVENUE SIGNAL PLAN

SHEET SG080F SG10

TRACS NO. _____

Plot Time: 10:16:39am
Plot Date: 6/12/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signals\Signal Plan & Removal 10.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	241	303	

NO WORK THIS SHEET

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
39165
RAY P. YPARRAGUIRRE
Date Signed 11/1/17
ARIZONA, U.S.A.
Expires 06/30/2018

	BY	DATE
DESIGNED	R. Yparraguirre	11/2017
DRAWN	B. Soto	11/2017
CHECKED	K. Carroll	11/2017

Kimley»Horn

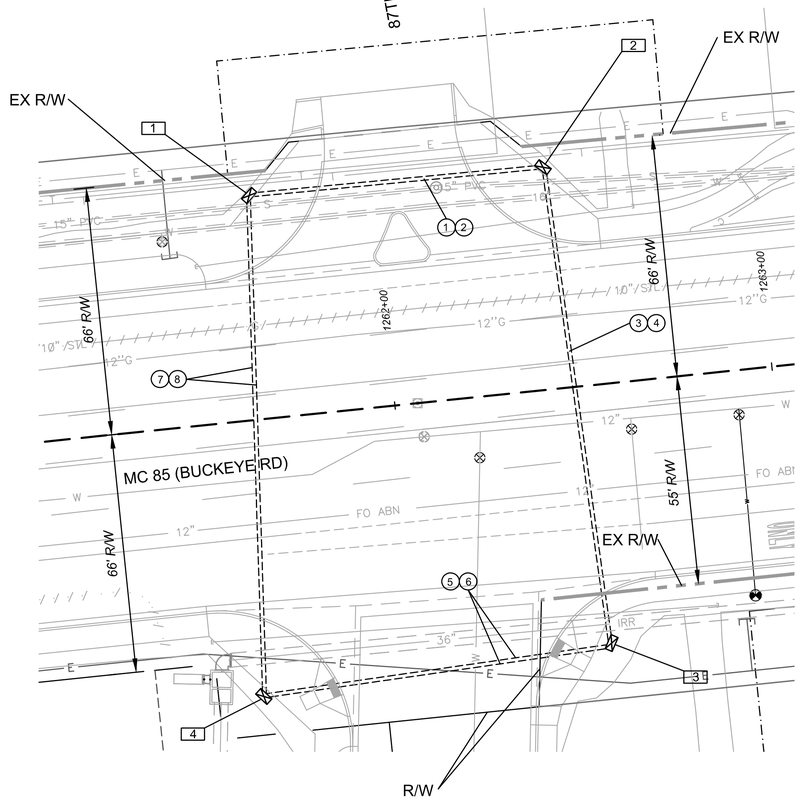
SHERMAN STREET & 83RD AVENUE POLE SCHEDULE

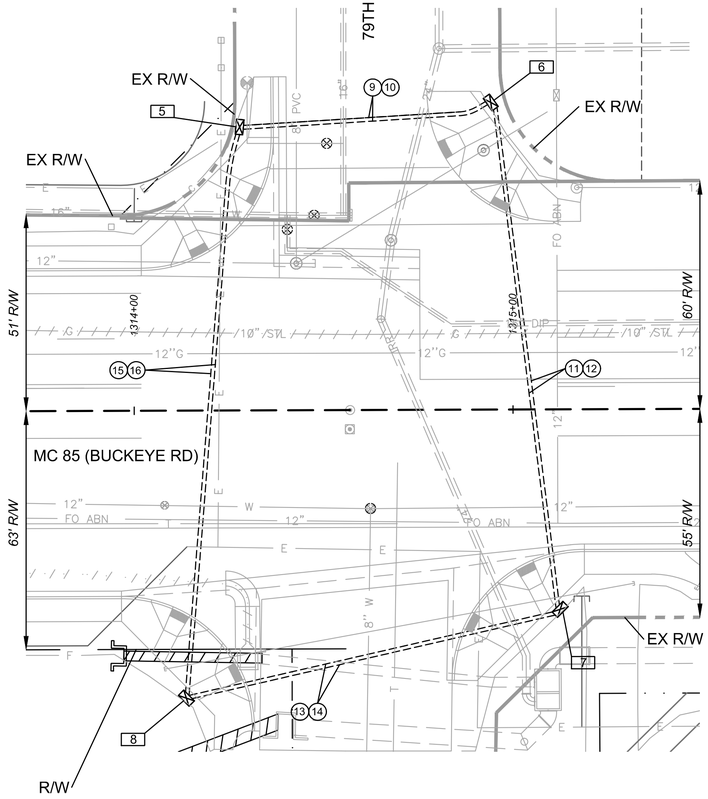
SHEET SG090F SG10

TRACS NO. _____

Plot Time: 9:06:14am
Plot Date: 11/1/2017
Plotted By: brenda.soto
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Signals\Signals\Signal Plan & Removal 11.dwg

Plot Time: 7:12:40pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cad\03-Sheets\Signals\Signals\Signal Plan & Removal 03.dwg





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
- SERVICE PEDESTAL AND BATTERY BACK-UP SYSTEM CABINET
- CONTROLLER CABINET
- "P" CABINET FOUNDATION w/CABINET PAD
- 2" PVC RUN
- LUMINAIRE OTHERS
- MCDOT SIGNAL POLE
- VIDEO DETECTION OR CCTV CAMERA
- FIRE PRE-EMPTION
- TRAFFIC SIGNAL HEAD TYPE F
- TRAFFIC SIGNAL HEAD TYPE G
- TRAFFIC SIGNAL HEAD TYPE Q
- TRAFFIC SIGNAL HEAD TYPE R
- FLASHER SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON W/SIGN
- METER SOCKET W/CIRCUIT BREAKER BOX
- MCDOT LUMINAIRE ON MAST ARM
- M POLE WITH MAST ARM AND TRAFFIC SIGNAL EXISTING
- M POLE WITH MAST ARMS FOR A LUMINAIRE AND TRAFFIC SIGNAL EXISTING
- E, J OR K POLE WITH MAST ARM AND TRAFFIC SIGNAL
- F, Q OR R POLE WITH MAST ARMS FOR A LUMINAIRE AND AND TRAFFIC SIGNAL
- RAILROAD CABINET
- LOOP DETECTOR
- VEHICLE MOVEMENT
- PEDESTRIAN MOVEMENT
- (1) PVC RUN NUMBER CALL OUT
- (A) SIGNAL POLE LETTER CALL OUT
- (A) CABINET FOUNDATION CALL OUT
- (S) SERVICE PEDESTAL AND BATTERY BACKUP SYSTEM FOUNDATION CALL OUT
- (BBS)
- (1) NO. 3½ PULL BOX CALL OUT
- [1] NO. 5 PULL BOX CALL OUT
- [1] NO. 7 PULL BOX CALL OUT

NOTE:
ALL CONDUIT RUNS SHALL HAVE A #8 AWG BARE BOND INSTALLED.

ESTIMATED QUANTITIES (THIS SHEET)

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

ELECTRICAL CONDUCTORS
County Supplied ☐
Contractor Supplied ☐

1. Signal & Lighting Wire	Lump Sum	
2. Loop Lead-In Cable	Lump Sum	
3. Loop Detection Wire	Lump Sum	

ELECTRICAL CONDUIT
County Supplied ☐
Contractor Supplied ☒

1. 2" PVC, SCH.40, TYPE II		LF
2. 3/4" PVC, SCH.40, TYPE II		LF
3. 3" PVC, SCH.40, TYPE II	1758	LF

PULL BOXES
County Supplied ☐
Contractor Supplied ☒

1. No. 3½ Pull Box		EA
2. No. 5 Pull Box		EA
3. No. 7 Pull Box W/Ext.	8	EA

FOUNDATIONS
County Supplied ☐
Contractor Supplied ☐

1. Type A		EA
2. Type Q and J		EA
3. Type K and R		EA
4. Type SP		EA
6. Type P Cabinet		EA
7. Type BBS		EA

LOOP DETECTION
County Supplied ☐
Contractor Supplied ☐

1. 6'X6' Loop		EA
2. 6'x20' Quadrupole Loop		EA
3. 6'x40' Quadrupole Loop		EA
4. 6'x50' Quadrupole Loop		EA

NOTES:
1. Refer to sections 470 through 478 of the MCDOT Supplement to MAG Specifications and Details

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	242	303	

ELECTRICAL CONDUIT

Run	Size	Length	Install Type	Run	Size	Length	Install Type
1	3"	80 LF	HB				
2	3"	80 LF	HB				
3	3"	129 LF	HB				
4	3"	129 LF	HB				
5	3"	90 LF	HB				
6	3"	90 LF	HB				
7	3"	128 LF	HB				
8	3"	128 LF	HB				
9	3"	65 LF	HB				
10	3"	65 LF	HB				
11	3"	135 LF	HB				
12	3"	135 LF	HB				
13	3"	102 LF	HB				
14	3"	102 LF	HB				
15	3"	150 LF	HB				
16	3"	150 LF	HB				

CONDUIT LEGEND
- (XX) Conduit to Remain
- (XX) Conduit to Be Removed or Abandoned
- (XX) Install New Conduit

TYPE OF CONDUIT INSTALLATION:
T = Trenching
HB = Horizontal Boring

PULL BOXES

ITEM NUMBER	℄ STATION		OFFSET LT.	OFFSET RT.	ELEV
	☐ #7 PULL BOX ☐ W/EXTENSION				
1	MC85	STA 1261+67	59'		1006.58
2	MC85	STA 1262+45	59'		1006.52
3	MC85	STA 1262+50		68'	1006.21
4	MC85	STA 1261+58		73'	1006.02
5	MC85	STA 1314+28	74'		1014.89
6	MC85	STA 1314+94	81'		1015.35
7	MC85	STA 1315+10		56'	1015.58
8	MC85	STA 1314+15		77'	1015.57
	☐ #5 PULL BOX ☐				
	◇ #3 ½ PULLBOX ◇				

POLE FOUNDATION

Type	Item	

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 59794 TAYLOR SWANSON Date Signed 6/15/18 ARIZONA, U.S.A. Expires 06/30/2021

	BY	DATE
DESIGNED	T. Swanson	06/2018
DRAWN	B. Soto	06/2018
CHECKED	K. Carroll	06/2018

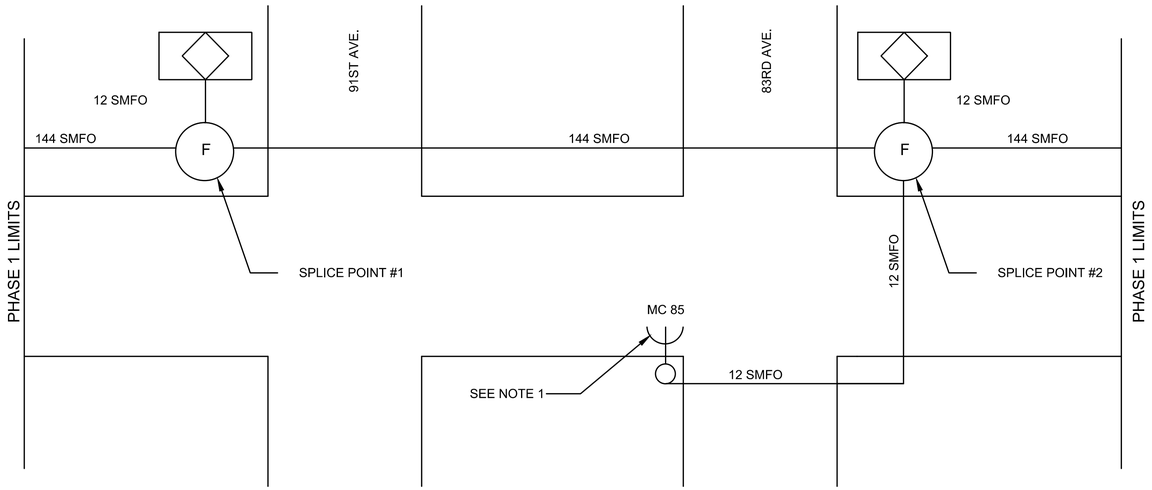
Kimley»Horn

87TH & 79TH AVENUE SIGNAL PLANS

SHEET SG100F SG10

TRACS NO. _____

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	243	303	
☐ REMOVAL/RELOCATE ☐					



NOTES:

1. THE CONTRACTOR SHALL RE-ESTABLISH THE WIRELESS CONNECTION TO I-10/83RD AVENUE AFTER CONSTRUCTION OF NEW TRAFFIC SIGNAL AND RELOCATED WIRELESS ANTENNA HAS BEEN COMPLETED.

N

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
50066
THOMAS M. MCCULLOUGH
Date Signed 11/1/17
ARIZONA, U.S.A.
Expires 06/30/2018

	BY	DATE
DESIGNED	T. McCullough	11/2017
DRAWN	M. Le	11/2017
CHECKED	R. Ypparraguirre	11/2017

Kimley»Horn

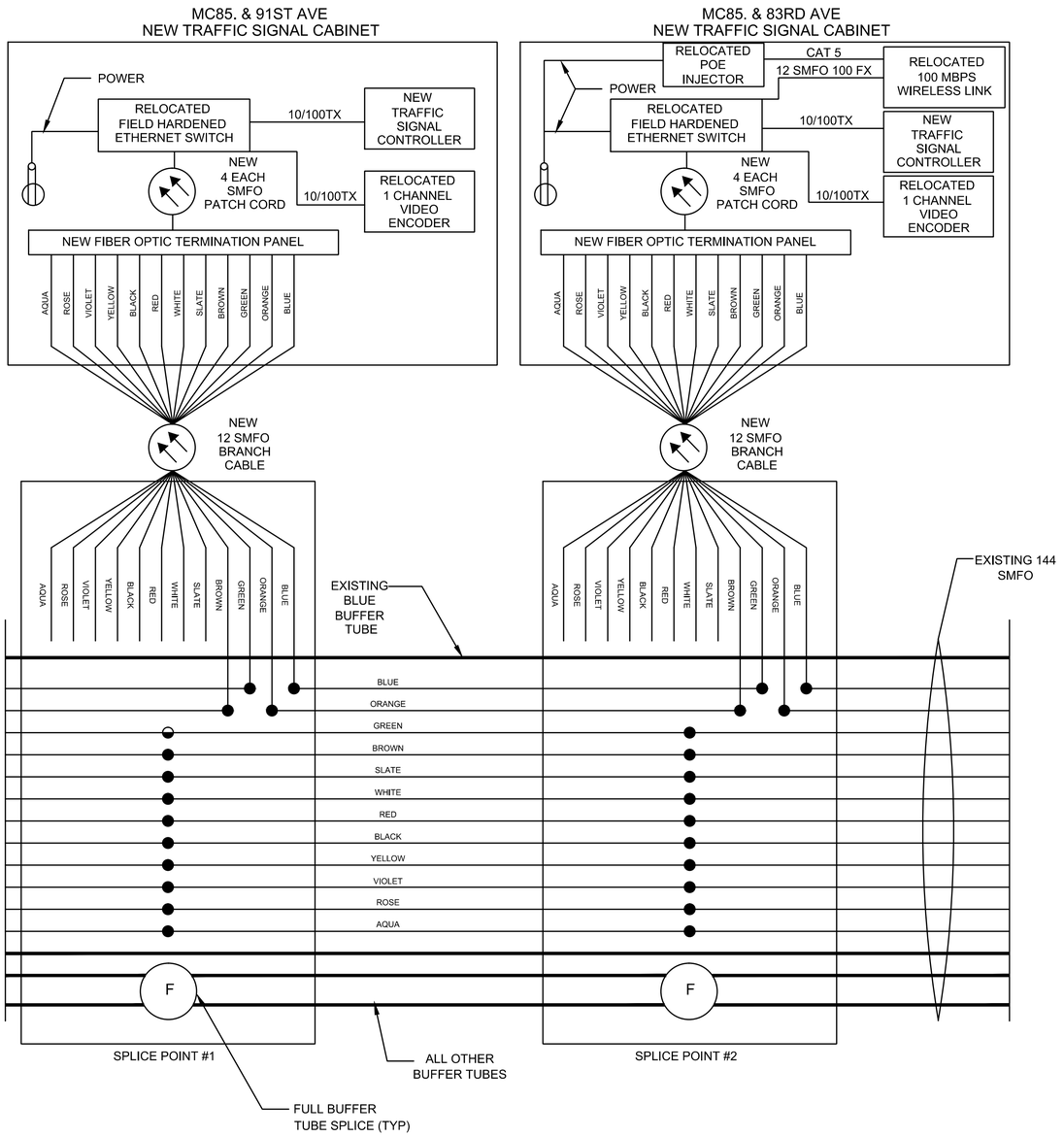
SPLICE POINT PLAN

SHEET
ITS01 of ITS09

TRACS NO. _____

Plot Time: 10:43:10am
Plot Date: 10/30/2017
Plotted By: joe.metrailer
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\ITS\aze1019-its-fb01.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	244	303	
☐ REMOVAL/RELOCATE ☐					



● FUSION SPLICE FIBER STRAND

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) — Thomas M. McCullough — 50066 — THOMAS M. MCCULLOUGH — ARIZONA, U.S.A. — Expires 09/30/2018

	BY	DATE
DESIGNED	T. McCullough	11/2017
DRAWN	M. Le	11/2017
CHECKED	R. Ypparraguirre	11/2017

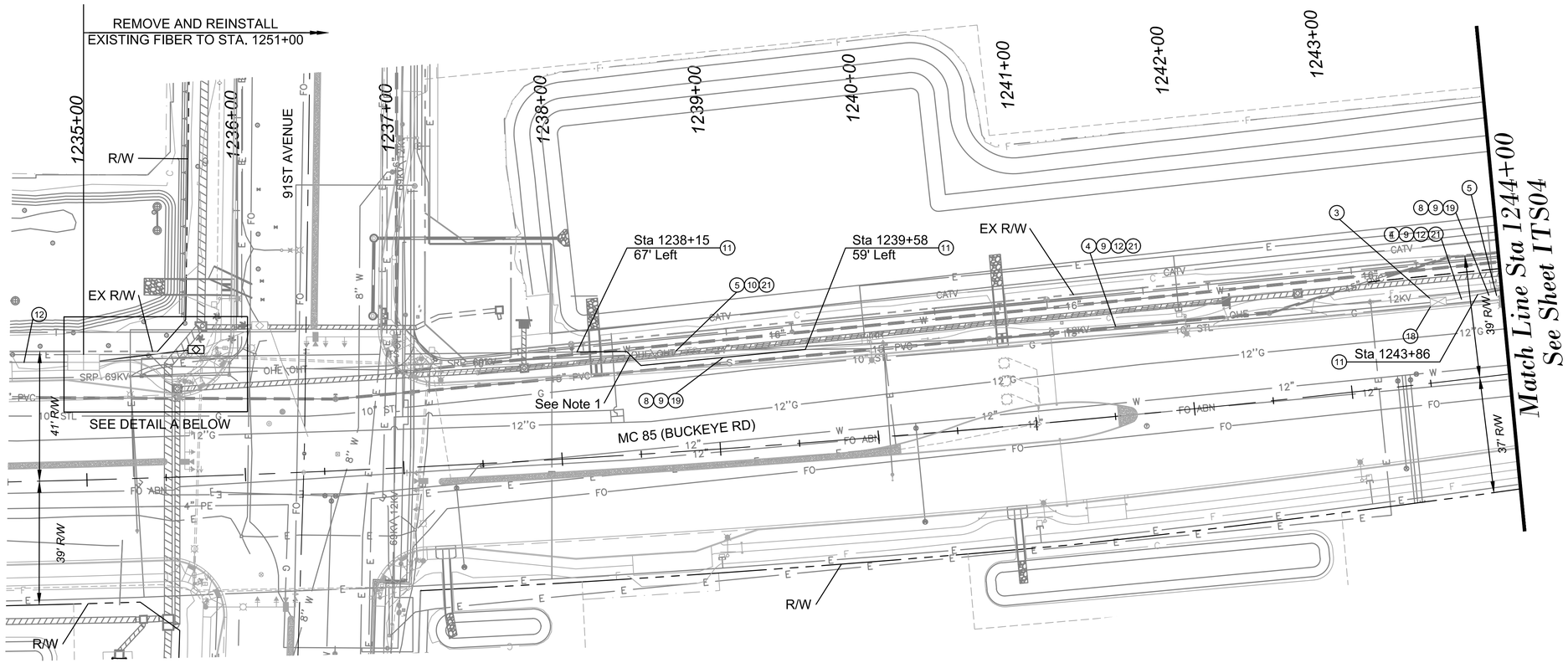
Kimley»Horn

SPLICE DETAIL SHEET

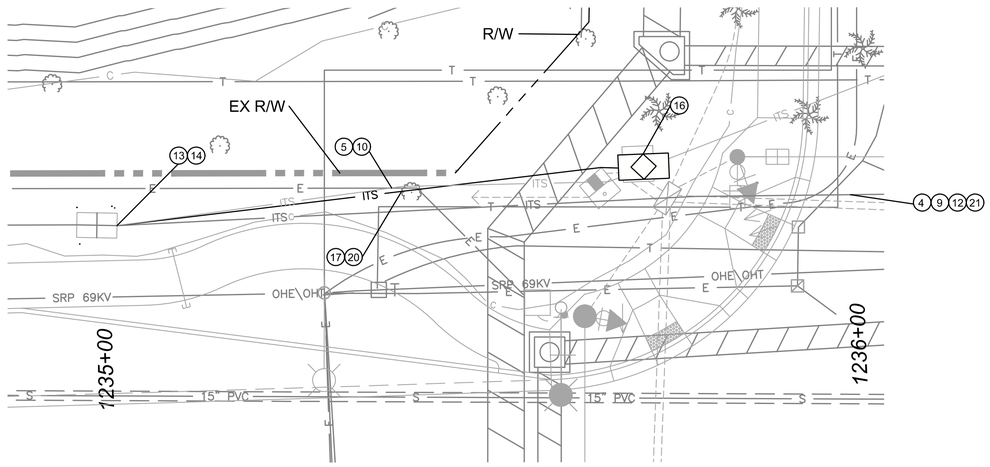
SHEET ITS02 of ITS09

TRACS NO. _____

Plot Time: 10:43:26am
Plot Date: 10/30/2017
Plotted By: joe.metrailer
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\ITS\aze1019-its-fb02.dwg



DETAIL A



SCALE: Hor: 1"=10'

NOTES:

1. CONDUIT CROSSING NEW SRPI PIPE SHALL MAINTAIN A 2' VERTICAL CLEARANCE UNDER THE PIPE.

SCALE: Hor: 1"=40'

40 0 40 80

SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	245	303	

☐ REMOVAL/RELOCATE ☐

○ CONSTRUCTION ○

(3)	*Remove Existing Pull Box*	1 - EA
(4)	*Remove Fiber Optic Cable from Conduit and Reinstall After ITS Improvements Are Completed*	900 - L.F.
(5)	*Remove Existing Conduit*	298 - L.F.
(8)	*Install 4-inch PVC Conduit (Trench). Det 4801, Sec. 481.3(A)*	210 - L.F.
(9)	*Install 4-inch 3-Cell Geotextile Innerduct, Sec. 481.2.3*	998 - L.F.
(10)	*Remove Fiber Optic Cable from Conduit*	113 - L.F.
(11)	*Intercept Existing Conduit and Connect to New Conduit*	
(12)	*Existing Conduit, Protect in Place*	
(13)	*Existing Pull Box, Protect in Place*	
(14)	*Install Splice Closure in Pull Box and Fusion Splice SMFO Cables Per Splice Details*	1 - EA
(16)	*Relocate Ethernet Switch to New Traffic Signal Cabinet. See Traffic Signal Plans*	1 - EA
(17)	*Install New SMFO 12-Cable*	72 - L.F.
(18)	*Install Split Duct Conduit to Join Existing Conduit Segments*	
(19)	*Install Existing Fiber Optic Cable in New Conduit*	
(20)	*Install 2-Inch PVC Conduit (Trench). Detail 4801, Sec. 481.3(A)*	72 - L.F.
(21)	*Remove Existing Geotextile Innerduct from conduit*	880 - L.F.

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) Certificate No. 50066 THOMAS M. MCCULLOUGH Date Signed 6/15/18 ARIZONA, USA. Expires 09/30/2018

	BY	DATE
DESIGNED	T. McCullough	06/2018
DRAWN	M. Le	06/2018
CHECKED	D. Rutkowski	06/2018

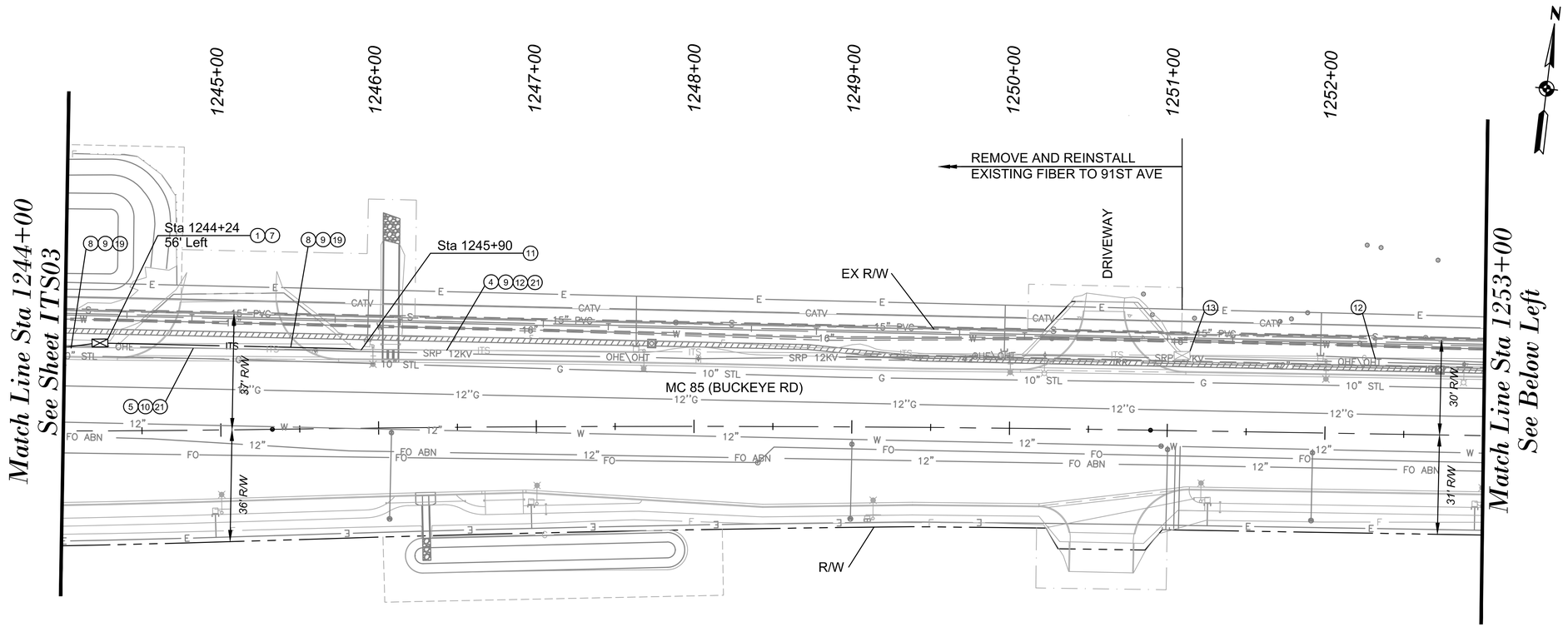
Kimley»Horn

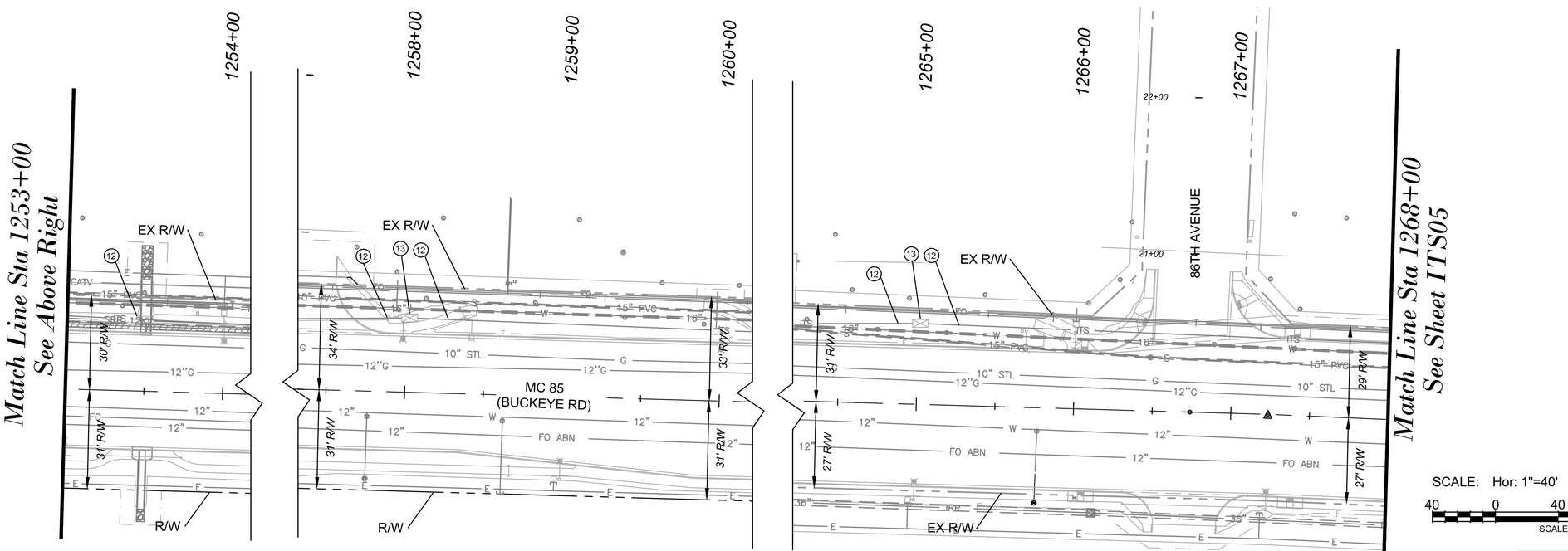
ITS PLAN
PROJECT LIMITS TO STA 1244+00

SHEET ITS03 of ITS09

TRACS NO. _____

Plot Time: 10:28:34am
Plot Date: 6/15/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\ITS\aze1019-its-pl01.dwg





SCALE: Hor: 1"=40'

40 0 40 80

SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	246	303	

☐ REMOVAL/RELOCATE ☐

○ CONSTRUCTION ○

(1)	*Install ITS Type A Pull Box, Det. 4805-1, Det. 4810*	1 - EA
(4)	*Remove Fiber Optic Cable from Conduit and Reinstall After ITS Improvements Are Completed*	720 - L.F.
(5)	*Remove Existing Conduit*	202 - L.F.
(7)	*Elevation of New Pull Box Shall Match Elevation of New S/W*	
(8)	*Install 4-inch PVC Conduit (Trench). Det 4801, Sec. 481.3(A)*	192 - L.F.
(9)	*Install 4-inch 3-Cell Geotextile Innerduct, Sec. 481.2.3*	192 - L.F.
(10)	*Remove Fiber Optic Cable from Conduit*	202 - L.F.
(11)	*Intercept Existing Conduit and Connect to New Conduit*	
(12)	*Existing Conduit, Protect in Place*	
(13)	*Existing Pull Box, Protect in Place*	
(19)	*Install Existing Fiber Optic Cable in New Conduit*	192 - L.F.
(21)	*Remove Existing Geotextile Innerduct from Conduit*	690 - L.F.

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	T. McCullough	06/2018
DRAWN	M. Le	06/2018
CHECKED	D. Rutkowski	06/2018

Registered Professional Engineer (Civil)
Certificate No.
50066
THOMAS M. MCCULLOUGH
Date Signed 6/15/18
ARIZONA, USA
Expires 06/30/2018

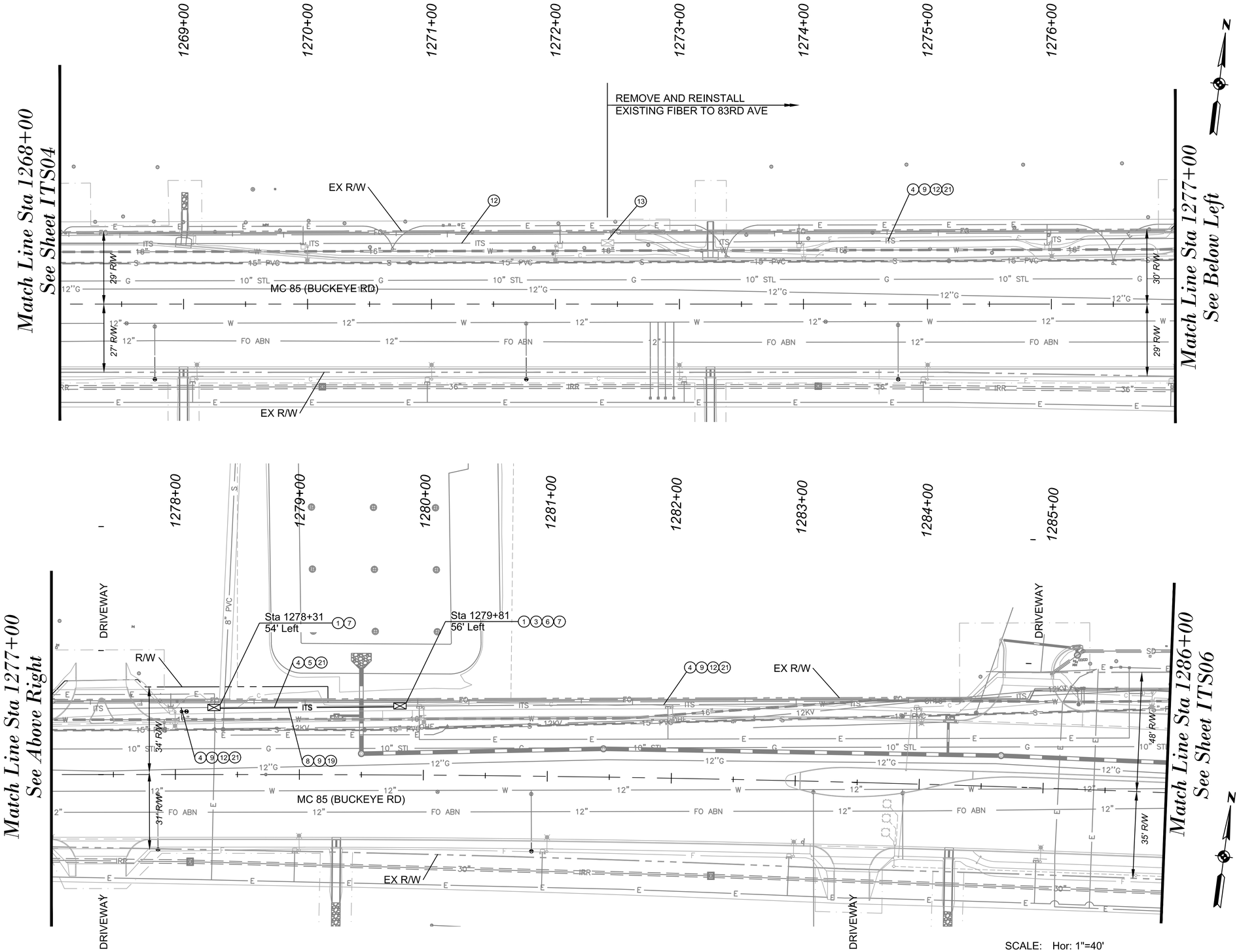
Kimley»Horn

ITS PLAN
STA 1244+00 TO STA 1268+00

SHEET
ITS04 of ITS09

TRACS NO. _____

Plot Time: 6:49:08pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\ITSsaze1019-its-pl02.dwg



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	247	303	

☐ REMOVAL/RELOCATE ☐

○ CONSTRUCTION ○

(1)	*Install ITS Type A Pull Box, Det. 4805-1, Det. 4810*	2 - EA
(3)	*Remove Existing Pull Box*	1 - EA
(4)	*Remove Fiber Optic Cable from Conduit and Reinstall After ITS Improvements Are Completed*	1,360 - L.F.
(5)	*Remove Existing Conduit*	150 - L.F.
(6)	*After Removing the Fiber Optic Cable and Pull Box, Install New Conduit Sweeps to Facilitate Cable Pulling and Entry Into New Pull Box*	
(7)	*Elevation of New Pull Box Shall Match Elevation of New S/W*	
(8)	*Install 4-inch PVC Conduit (Trench). Det 4801, Sec. 481.3(A)*	150 - L.F.
(9)	*Install 4-inch 3-Cell Geotextile Innerduct, Sec. 481.2.3*	1,360 - L.F.
(12)	*Existing Conduit, Protect in Place*	
(13)	*Existing Pull Box, Protect in Place*	
(19)	*Install Existing Fiber Optic Cable in New Conduit*	150 - L.F.
(21)	*Remove Existing Geotextile Innerduct from Conduit*	1,358 - L.F.

NO.	REVISION	BY	DATE

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE 50066 THOMAS M. MCCULLOUGH Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2018

	BY	DATE
DESIGNED	T. McCullough	06/2018
DRAWN	M. Le	06/2018
CHECKED	D. Rutkowski	06/2018

Kimley»Horn

ITS PLAN
STA 1268+00 TO STA 1286+00

SHEET ITS05 of ITS09

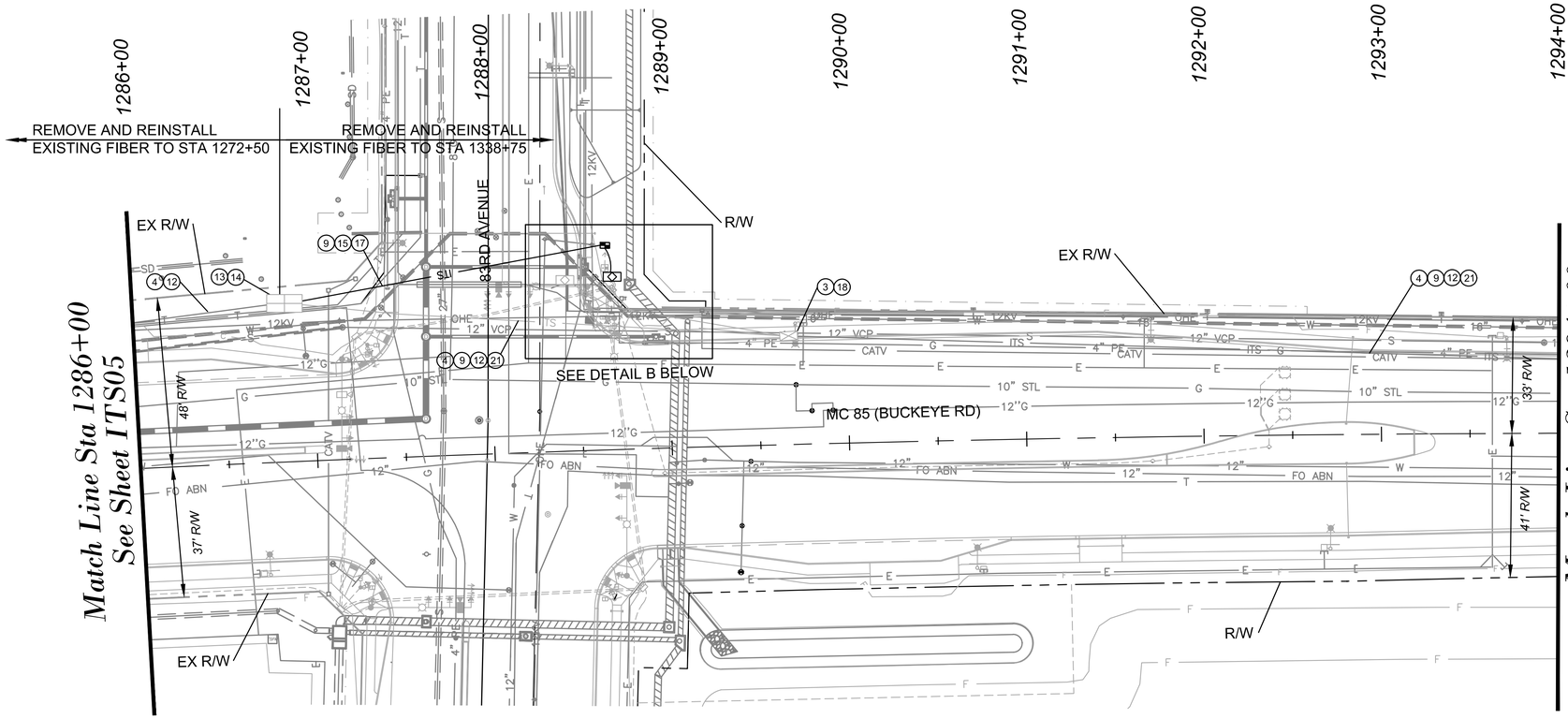
TRACS NO. _____

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

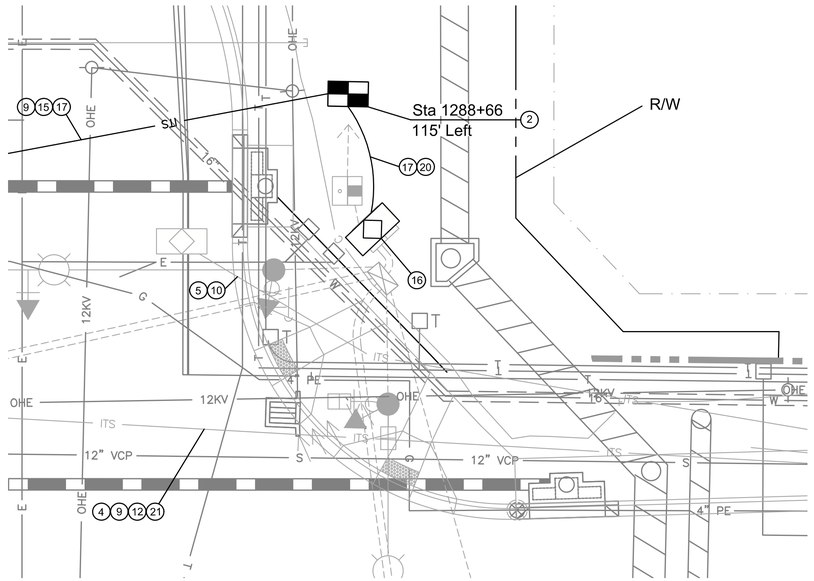
Plot Time: 6:52:12pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\ITS\aze1019-its-pl03.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	248	303	

☐ REMOVAL/RELOCATE ☐



DETAIL B



SCALE: Hor: 1"=10'

○ CONSTRUCTION ○

(2)	*Install ITS Type D Pull Box, Det. 4806-1, Det. 4811*	*1 - EA*
(3)	*Remove Existing Pull Box*	*1 - EA*
(4)	*Remove Fiber Optic Cable from Conduit and Reinstall After ITS Improvements Are Completed*	*800 - L.F.*
(5)	*Remove Existing Conduit*	*129 - L.F.*
(9)	*Install 4-inch 3-Cell Geotextile Innerduct, Sec. 481.2.3*	*894 - L.F.*
(10)	*Remove Fiber Optic Cable from Conduit*	*129 - L.F.*
(12)	*Existing Conduit, Protect in Place*	
(13)	*Existing Pull Box, Protect in Place*	
(14)	*Install Splice Closure in Pull Box and Fusion Splice SMFO Cables Per Splice Details*	*1 - EA*
(15)	*Install 4-inch PVC Conduit (Horizontal Bore). Det 4801, Sec. 481.3(A)*	*179 - L.F.*
(16)	*Relocate Ethernet Switch to New Traffic Signal Cabinet*	*1 - EA*
(17)	*Install Fiber Optic Cable (12 SMFO), Sec. 482.3.1*	*194 - L.F.*
(18)	*Install Split Duct Conduit to Join Existing Conduit Segments*	
(20)	*Install 2-Inch PVC Conduit (Trench). Detail 4801, Sec. 481.3(A)*	*15 - L.F.*
(21)	*Remove Existing Geotextile Innerduct from Conduit*	*715 - L.F.*

NO.	REVISION	BY	DATE
3			
2			
1			

N

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 50066 THOMAS M. MCCULLOUGH Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2018

	BY	DATE
DESIGNED	T. McCullough	06/2018
DRAWN	M. Le	06/2018
CHECKED	D. Rutkowski	06/2018

Kimley»Horn

ITS PLAN
STA 1286+00 TO STA 1294+00

SHEET ITS06 of ITS09

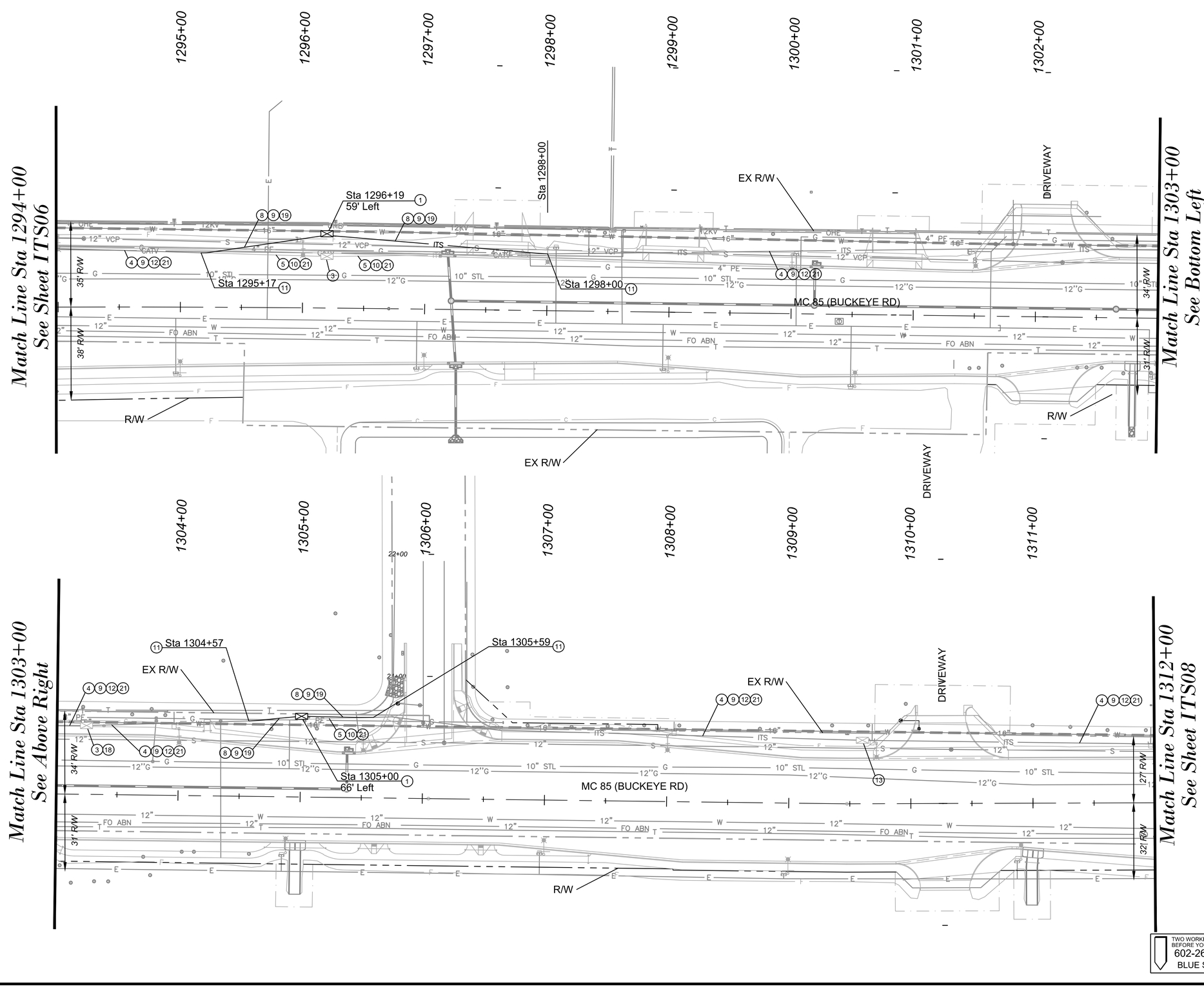
TRACS NO. _____

Plotted By: mark.flood
Plot Date: 6/14/2018
Plot Time: 6:56:46pm
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\ITS\aze1019-its-pl04.dwg

Plot Time: 7:00:59pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\ITS\aze1019-its-pl05.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	249	303	

☐ REMOVAL/RELOCATE ☐



○ CONSTRUCTION ○

①	*Install ITS Type A Pull Box, Det. 4805-1, Det. 4810*	2 - EA
③	*Remove Existing Pull Box*	2 - EA
④	*Remove Fiber Optic Cable from Conduit and Reinstall After ITS Improvements Are Completed*	1417 - L.F.
⑤	*Remove Existing Conduit*	386 - L.F.
⑧	*Install 4-inch PVC Conduit (Trench). Det 4801, Sec. 481.3(A)*	384 - L.F.
⑨	*Install 4-inch 3-Cell Geotextile Innerduct, Sec. 481.2.3*	1,800 - L.F.
⑩	*Remove Fiber Optic Cable from Conduit*	386 - L.F.
⑪	*Intercept Existing Conduit and Connect to New Conduit*	
⑫	*Existing Conduit, Protect in Place*	
⑬	*Existing Pull Box, Protect in Place*	
⑱	*Install Split Duct Conduit to Join Existing Conduit Segments*	
⑲	*Install Existing Fiber Optic Cable in New Conduit*	384 - L.F.
㉑	*Remove Existing Geotextile Innerduct from Conduit*	1,800 - L.F.

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	T. McCullough	06/2018
DRAWN	M. Le	06/2018
CHECKED	D. Rutkowski	06/2018

Registered Professional Engineer (Civil) CERTIFICATE NO. 50066 THOMAS M. MCCULLOUGH Date Signed 6/15/18 ARIZONA, U.S.A. Expires 06/30/2018

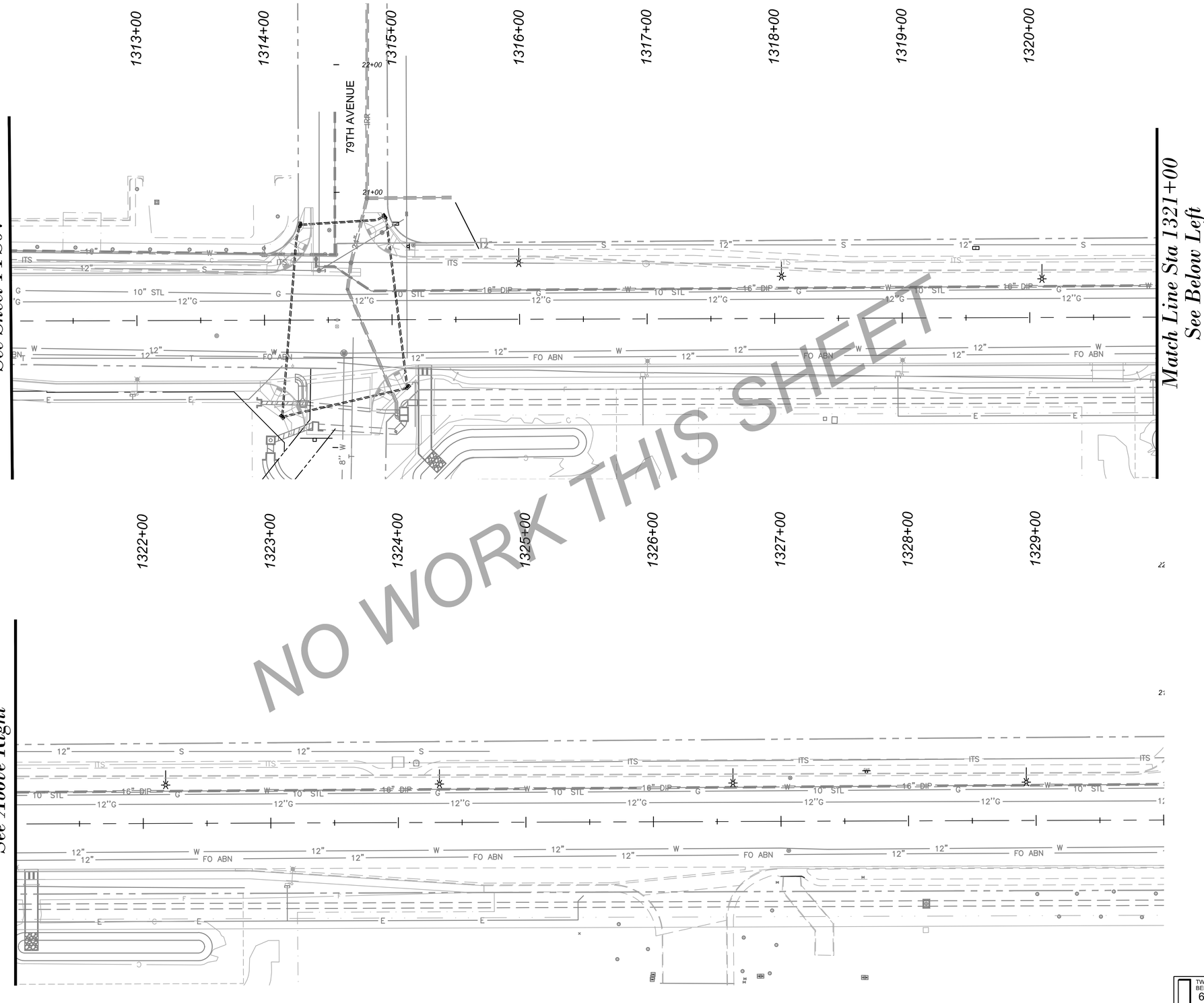
Kimley»Horn

ITS PLAN
STA 1294+00 TO STA 1312+00

SHEET ITS07 of ITS09

TRACS NO. _____

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE



NO WORK THIS SHEET

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	250	303	

☐ REMOVAL/RELOCATE ☐

○ CONSTRUCTION ○

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	T. McCullough	06/2018
DRAWN	M. Le	06/2018
CHECKED	D. Rutkowski	06/2018

Registered Professional Engineer (Civil)
50066
THOMAS M. MCCULLOUGH
Date Signed 6/15/18
ARIZONA, U.S.A.
Expires 09/30/2018

Kimley»Horn

ITS PLAN
STA 1312+00 TO STA 1330+00

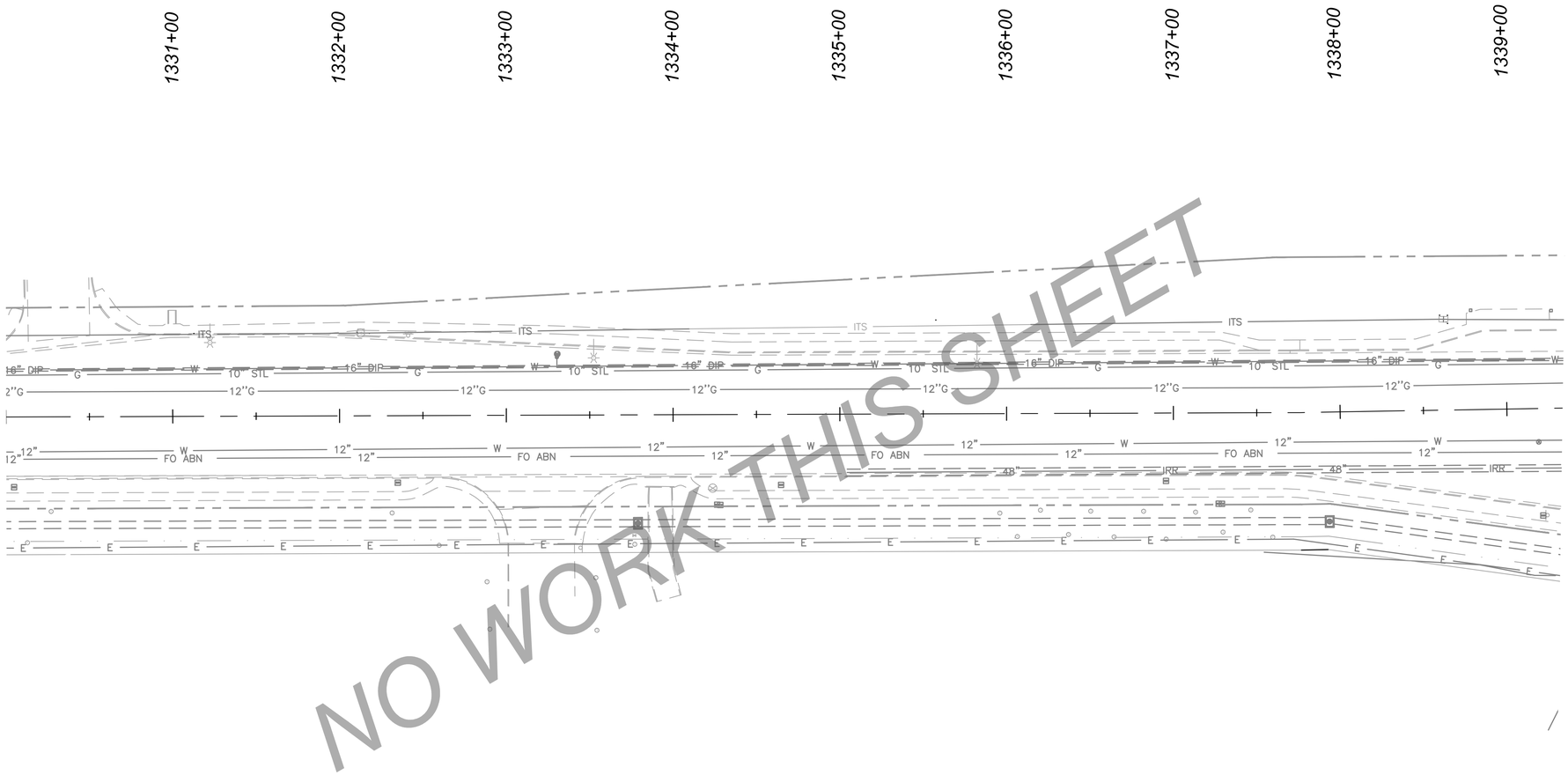
SHEET
ITS08 of ITS09

TRACS NO. _____

TWO WORKING DAYS
BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

N

Plot Time: 7:04:10pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\ITS\aze1019-its-pl06.dwg



NO WORK THIS SHEET

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	251	303	

☐ REMOVAL/RELOCATE ☐

○ CONSTRUCTION ○

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 50066 THOMAS M. McCULLOUGH Date Signed 6/15/18 ARIZONA, USA
Expires 06/30/2018

	BY	DATE
DESIGNED	T. McCullough	06/2018
DRAWN	M. Le	06/2018
CHECKED	D. Rutkowski	06/2018

Kimley»Horn

ITS PLAN
STA 1330+00 TO PROJECT LIMITS

SHEET
ITS09 of ITS09

TRACS NO. _____

Plot Time: 7:06:09pm
Plot Date: 6/14/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\ITS\aze1019-its-pl07.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	252	303	

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION

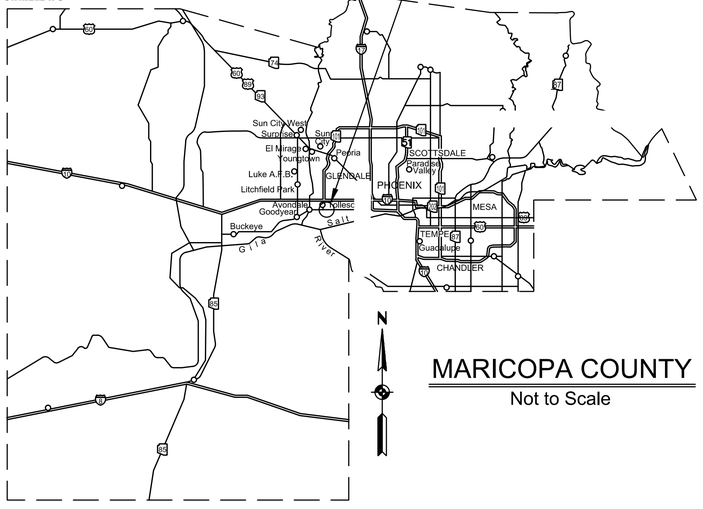
PLANS FOR WATER AND FORCE MAIN RELOCATIONS
MC 85 AT 83RD AVENUE AND CENTER TURN LANE EXPANSION
(MC 85: 95TH AVENUE TO 75TH AVENUE)

PROJECT NO. TT345

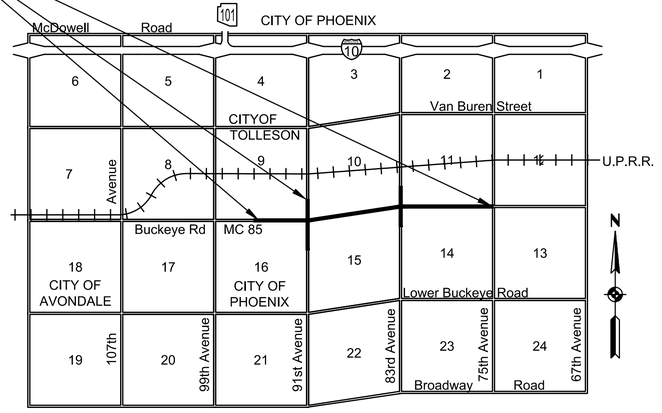
DRAWING INDEX:

U01	COVER SHEET
U02	GENERAL NOTES
U03	GENERAL NOTES
U04	DETAIL
U05	WATERLINE/ FORCE MAIN DIP TABLE
U06	DETAILS
U07	WATERLINE RELOCATION PLAN & PROFILE
U08	PRIVATE IRRIGATION DETAILS
R01-R44	REMOVAL AND RELOCATION SHEETS

PROJECT NO. TT345



MARICOPA COUNTY
Not to Scale



PROJECT VICINITY MAP
Not to Scale

UTILITY COORDINATION CONTACTS

AGENCY	CONTACT	DATE	PHONE
COX (COAX)	KURTIS MILLER	04/18	(623) 328-3843
KINDER MORGAN ENERGY (GAS)	JAMES PIGG	04/18	(480) 262-9337
KINDER MORGAN ENERGY (LIQUID)	JEFF FERGUSON	04/18	(480) 272-1312
CENTURYLINK LOCAL	MICHAEL VESPUCCI	04/18	(602) 630-1429
SOUTHWEST GAS	YVONNE AGUIRRE	04/18	(602) 484-5338
LEVEL 3 COMM	CARLOS MUNIZ	04/18	(602) 322-2162
AT&T	LEON ELLIS	04/18	(480) 844-6765
CITY OF PHOENIX WATER	JAMI ERICKSON	04/18	(602) 261-8229
CITY OF PHOENIX SEWER	JAMI ERICKSON	04/18	(602) 261-8229
CITY OF TOLLESON WATER	DALE CRANDELL	04/18	(623) 640-5202
CITY OF TOLLESON SEWER	DALE CRANDELL	04/18	(623) 640-5202
SRP (TRANSMISSION)	KEITH PELLIEN	04/18	(602) 236-4962
SRP (DISTRIBUTION)	BRUCE SOUDER	04/18	(602) 236-0692
SRP (IRRIGATION)	RICH JOHNSON	04/18	(602) 236-4607

APPROVALS:

THE AUTHORIZED REPRESENTATIVES OF THE FOLLOWING AGENCIES HEREBY ACKNOWLEDGE THEY HAVE REVIEWED AND APPROVED THE DESIGN SHOWN BY THESE DRAWINGS. CONSTRUCTION MAY BEGIN AFTER ALL APPROPRIATE PERMITS HAVE BEEN OBTAINED.

MARICOPA COUNTY ENVIRONMENTAL SERVICE DEPT. (WATER) _____ DATE _____

APPROVED FOR:
THE CITY OF PHOENIX

WATER SERVICE DEPT _____ DATE _____

APPROVED FOR:
THE CITY OF TOLLESON

CITY OF TOLLESON, CITY ENGINEER (WATER) _____ DATE _____

AS-BUILT CERTIFICATION

HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED CIVIL ENGINEER _____ DATE _____

REGISTRATION NUMBER _____

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

Registered Professional Engineer (Civil) 38007 ROBERT LYONS Date Signed 5/1/18 ARIZONA, U.S.A. Expires 9/30/2020

TRACS NO. _____

5/2/2018 8:51:11am 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	TT345	253	303	

CITY OF TOLLESON WATER 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 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 and 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 manufacture'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 one (1) 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. See M.A.G. Standard Detail 404 for additional information and/or provisions for clearance.
16. 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.
17. Any and all more stringent requirements required by Federal, State, County, or Local codes ordinances take precedence.
18. 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.
19. All services shall run in a straight line from water main to the meter box.
20. Neither water service meter box nor any portion of a water service shall be installed under an existing or proposed driveway or sidewalk ramp.
21. Concrete or asphalt damaged during the course of construction shall be removed and replaced in kind prior to final inspection.
22. 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
23. 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.
24. The CIty of Phoenix does not guarantee dry shutdowns of existing water mains for maintenance, and some nuisance water pumping may be required.

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 5/1/18 ARIZONA, USA
Expires 9/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	05/2018
DRAWN	M. Flood	05/2018
CHECKED	R. Lyons	05/2018

Kimley»Horn

GENERAL NOTE SHEET

SHEET U02 OF U07

TRACS NO. _____

Plot Time: 7:38:40am
Plot Date: 5/2/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_ULN01.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	254	303	

PRIVATE IRRIGATION GENERAL NOTES

1. The construction contract specifications for all portions of this project shall conform to the requirements of the uniform standard specifications for public works construction, sponsored and distributed by the Maricopa Association of Governments (MAG) (latest edition), except as noted, including revisions and corrections.
2. Any discrepancies found between the drawings and specifications and site conditions or any inconsistencies or ambiguities in the drawings or specifications shall be immediately reported to the owner's engineer, in writing, who will promptly correct such inconsistencies or ambiguities in writing. Without notification, work done by the contractor after the discovery of such discrepancies, shall be done at the contractor's risk.
3. The owner's engineer and/or owner shall not be responsible for the contractor's means, methods, techniques, sequences or procedure of construction, or the safety precautions and the programs incident thereto.
4. The contractor shall submit a construction schedule to the owner's engineer for approval and is to notify the owner's engineer 15 calendar days in advance of each construction phase so as to facilitate construction observation scheduling.
5. The contractor shall provide shop drawings for review by the owner's engineer, as may be necessary for the execution of the work and as required by the drawings and specifications.
6. MCDOT's engineer and/or contractor shall stake construction and/or irrigation ditch centerline, and right-of-way lines required for proper execution and verification of the work. Reference staking shall be maintained by MCDOT's engineer and/or contractor for the duration of irrigation facilities construction.
7. The contractor is responsible for obtaining any and all permit(s) required for work within public agency right-of-way prior to the start of construction.
8. Stations shown are approximate and may be varied as directed by the owner's engineer.
9. All precast concrete pipe shall be in accordance with ASTM C 76, Class III, wall B and ASTM C 443 unless otherwise noted.
10. Prior to the backfilling of all irrigation facilities, the contractor shall conduct a hydrostatic test per MAG std specification 615.11.
11. The contractor shall contact owner's construction observer as noted on cover sheet for irrigation system dry-up scheduling.
12. Existing private facilities must remain operational, and shall not be disturbed or rendered inaccessible to farmer operations and maintenance staff until the construction of the new facilities has been completed and accepted as adequate by owner.
13. The use of temporary irrigation by-pass facilities to facilitate the demolition of existing facilities prior to the completion of the new facilities requires prior approval from farmer. MCDOT may require the contractor to submit sealed engineering plans for the by-pass facilities for review and approval. The abandonment and demolition of existing facilities replaced by the temporary by-pass shall proceed only after the constructed by-pass has been field verified and accepted as adequate by owner.
14. All existing irrigation facilities disturbed by new construction shall be reconstructed to current MAG standards.
15. Prior to the issuance of a farmer letter of acceptance, contractor to collect and provide as-built survey, at the direction of specified construction observer, to the owner's engineer for review and approval.
16. Upon completion of construction the contractor shall contact the specified construction observer to obtain a letter of acceptance.

UTILITY LOCATION / RELOCATION NOTES

1. Attention is called to the existence of utility lines including but not limited to buried gas, water, telephone, and electrical lines within the project limits. The contractor assumes full responsibility for the location and protection of all existing facilities, buried or overhead, during the construction operation. The contractor shall be responsible for all damages or injury of any nature done by execution of the work and shall restore such utilities to a condition similar or equal to their condition before such damage or injury was done by repair and/or replacement in an acceptable manner. The contractor shall be responsible for notifying any affected utility.
2. The existing utilities identified on the plans may not represent all existing and/or conflicting utilities within the project limits.
3. The owner does not guarantee the location or elevation of utilities and will not be responsible for their relocation.
4. The contractor shall contact Blue Stake, (602) 263-1100, and such other locators/utilities as needed to locate and flag all existing underground utilities prior to the commencement of construction. The location and elevation of all flagged utilities are to be field verified prior to the construction of relocated private irrigation facilities.
5. Any existing utility that is in conflict with proposed relocated facilities must be relocated to provide a minimum clearance of one foot vertically and two feet horizontally (outside diameter to outside diameter) from the facility prior to construction.
6. Owner or the utility owner is solely responsible for the coordination and cost of relocation of the utility and shall contact the utility owner directly for information regarding relocation requirements.
7. All proposed utilities must provide a minimum clearance of one foot vertically and two feet horizontally (outside diameter to outside diameter) from proposed new irrigation facilities.

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.
6. O&M roads shall be constructed with a minimum elevation 6" above adjacent fields and a 2% cross slope unless otherwise noted.
7. O&M roads adjacent to canal prism shall be constructed with a minimum elevation 6" above adjacent field and a 2% cross slope away from canal prism area unless otherwise noted.

CONCRETE NOTES

GENERAL:
Unless otherwise shown, these notes are typical for all drawings.

CONCRETE CLASSIFICATION:
All structural concrete shall be class AA (4,000 psi) per MAG standard specification section 725.

All concrete for canal lining shall be class a (3,000 psi) per MAG standard specification section 725.

CHAMFER:
Chamfer edges of permanently exposed concrete surfaces of all structures with a 45° bevel, ¾" x ¾".

DIMENSIONS:
All dimensions to a joint are to the centerline of the joint. beam and slab depths shall be measured from the top of the structural slab. Dimensions given for the depth of recesses are from the surface of the structural concrete. Thickness shown for walls and slabs adjacent to undisturbed soil or rock are minimum dimensions.

EMBEDDED MATERIALS:
Before placing concrete, care shall be taken that all embedded items are in position and securely fastened in place.

FINISHES:
For location and classes of finishes for formed and unformed concrete surfaces, see MAG specifications section 505.9.

JOINTS:
All construction joints shall be provided where shown on the drawings. additional construction joints may be used subject to approval.

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	05/2018
DRAWN	M. Flood	05/2018
CHECKED	R. Lyons	05/2018

Registered Professional Engineer
CERTIFICATE NO.
38007
ROBERT
LYONS
Date Signed 5/1/18
ARIZONA, USA
Expires 9/30/2020

Kimley»Horn

GENERAL NOTE SHEET

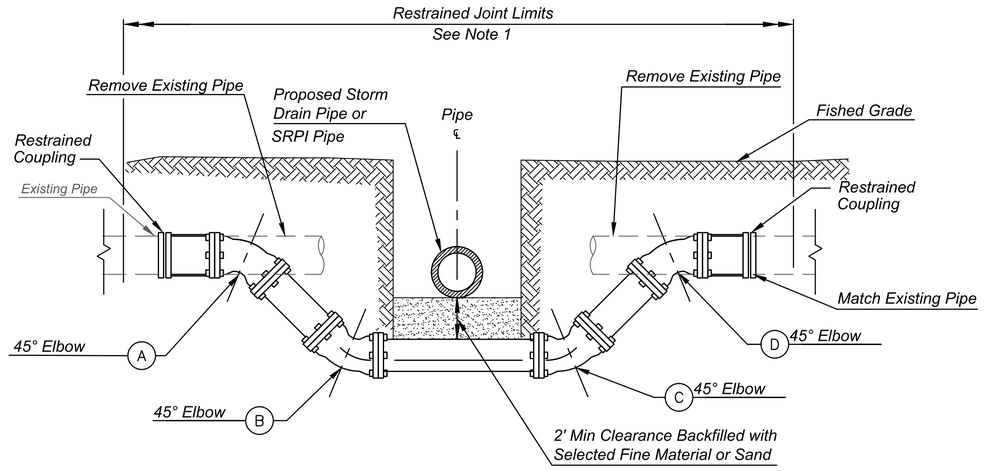
SHEET
U03 0F U07

TRACS NO. _____

TWO WORKING DAYS
BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

Plot Time: 7:40:16am
Plot Date: 5/2/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_ULN02.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	255	303	



Vertical Realignment of Existing Water Pipes
N.T.S.
DETAIL U1

Notes:

1. *Restrained Joint Limits outside the Limits of the Vertical Realignment may be obtained by either Replacement of Existing Pipe with Restrained Joint Pipe or by Restraining Existing Pipe with Split Ring Style Restraints. Restrained Limits are to be Determined per MAG Detail 303-2.*
2. *Drop Section is to be Prefabricated and Installed as a Single Unit.*
3. *Locations and Elevations of the Proposed elbows are shown on the table on Sheet U05.*
4. *All exposed AC pipe shall be slurry backfilled following relocation.*
5. *Connections to existing shall be made with restrained couplings, Romac or approved equal.*
6. *For pipe diameters less than 12" modify MAG 370 to comply with this detail and notes 1 through 5*

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 5/1/18 ARIZONA, U.S.A. Expires 9/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	05/2018
DRAWN	M. Flood	05/2018
CHECKED	R. Lyons	05/2018

Kimley»Horn

DIP DETAILS

SHEET U04 OF U07

TRACS NO. _____

Plot Time: 2:35:44pm
Plot Date: 5/1/2018
Plotted By: mark.flood
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	256	303	

MC 85 - WATERLINE DIP RELOCATION TABLE

Ref. DWG. No.	Centerline	Station/Offset		Description	Owner	A		B		C		D		Total Restrained Joint Limits	Remarks	
						Station	IE	Station	IE	Station	IE	Station	IE			
R31	91st Ave	303+78.38	65.76' Lt	8" Waterline (DIP)	City of Tolleson	19+21.13*	991.20	19+24.13*	988.20	19+44.13*	988.20	19+47.11*	991.20	Per MAG Detail 303-2	Per SRPI Final Design	Conflict with Prop 42" SRPI
R34	91st Ave	321+36.62	56.22' Rt	16" Waterline (DIP)	City of Tolleson	321+26.62	996.58	321+29.34	993.86	321+43.90	993.86	321+46.62	996.58	Per MAG Detail 303-2	Per Final Drainage Design	Conflict with Prop SD
R17	MC 85	1279+36.47	44.83' Lt	16" Waterline (DIP)	City of Tolleson	1279+19.00	1000.92	1279+22.54	997.38	1279+59.35	997.38	1279+62.88	1000.92	Per MAG Detail 303-2	Per Final Drainage Design	Conflict with Prop SD and CB
R19	MC 85	1287+94.61	115.33' Lt	16" Waterline (DIP)	City of Tolleson	1287+85.92	1002.30	1287+87.64	999.94	1288+01.58	999.94	1288+03.29	1002.30	Per MAG Detail 303-2	Per Final Drainage Design	Conflict with Prop SD
R19	83rd Ave	418+82.66	15.68' Rt	12" Waterline (DIP)	City of Phoenix	418+66.99	1002.17	418+69.70	999.46	418+94.78	999.46	418+97.49	1002.17	Per MAG Detail 303-2	Per SRPI Final Design	Conflict with Prop 24" SRPI
R19	MC 85	1289+33.89	9.90' Lt	12" Waterline (DIP)	City of Phoenix	-	-	-	-	-	-	-	-	Per MAG Detail 303-2	See Sheet U07 for Waterline Relocation	Conflict with Prop 24" & 42" SRPI
R21	MC 85	1297+23.59	16.85' Rt	12" Waterline (DIP)	City of Phoenix	1297+11.33	1005.74	1297+14.09	1002.98	1297+33.09	1002.98	1297+35.85	1005.74	Per MAG Detail 303-2	Per Final Drainage Design	Conflict with Prop SD
R19	83rd Ave	420+84.23	53.34' Rt	16" Waterline (DIP)	City of Tolleson	420+95.55	1002.30	420+93.33	999.16	420+77.29	999.16	420+75.07	1002.30	Per MAG Detail 303-2	Per Final Drainage Design	Conflict with Catch Basin
R41	83rd Ave	421+25.06	50.85' Lt	12" Waterline (DIP)	City of Tolleson	421+18.11	1004.00	421+20.06	1002.05	421+30.06	1002.05	421+32.01	1004.00	Per MAG Detail 303-2	Per Final Drainage Design	Conflict with Catch Basin
R19	MC 85	1289+24.33	78.34' Lt	16" Waterline (DIP)	City of Tolleson	1289+14.37	1001.35	1289+17.12	998.60	1289+31.54	998.60	1289+34.29	1001.35	Per MAG Detail 303-2	Per SRPI Final Design	Conflict with 42" SRPI
R09	MC 85	1237+79.34	64.19' Lt	16" Waterline (DIP)	City of Tolleson	1237+68.17	996.43	1237+72.63	992.00	1237+86.05	992.00	1237+90.51	996.43	Per MAG Detail 303-2	Per SRPI Final Design	Conflict with 24" SRPI

*Stationing shown is based on Driveway Centerline at 91st Avenue Station 303+50.00

Plot Time: 2:35:53pm
Plot Date: 5/1/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Utilities\AZE1019_U03.dwg

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
CERTIFICATE NO.
38007
ROBERT
LYONS
Date Signed 5/1/18
ARIZONA, U.S.A.
Expires 9/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	05/2018
DRAWN	M. Flood	05/2018
CHECKED	R. Lyons	05/2018

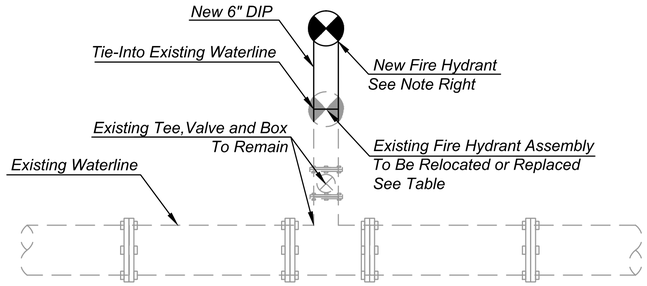
Kimley»Horn

WATERLINE/SEWER DIP RELOCATION TABLE

SHEET
U05 OF U07

TRACS NO. _____

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	257	303	

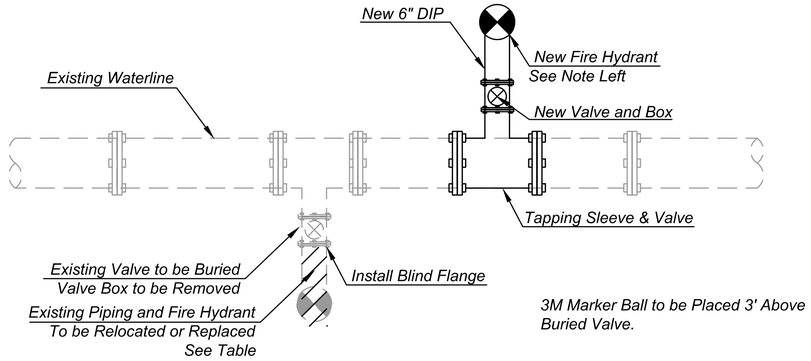


Note: City of Phoenix will Furnish and Install Fire Hydrants Owned by the City of Phoenix. See Specifications.

Ref. DWG. No.	Description	Owner	Existing Location	Proposed Location	Existing Waterline	Remarks
R15	*Fire Hydrant	City of Phoenix	1265+76.72, 40.5' Rt	1265+76.72, 60.1' Rt	12" DIP	Within Prop Roadway
R15	*Fire Hydrant	City of Phoenix	1268+76.85, 41.1' Rt	1268+76.85, 60.1' Rt	12" DIP	Within Prop Roadway
R16	*Fire Hydrant	City of Phoenix	1271+76.42, 41.5' Rt	1271+76.03, 60.1' Rt	12" DIP	Within Prop Roadway
R17	*Fire Hydrant	City of Phoenix	1274+76.39, 54.9' Rt	1274+76.39, 60.1' Rt	12" DIP	Within Prop Roadway
R17	*Fire Hydrant	City of Phoenix	1277+85.98, 49.8' Rt	1277+85.98, 60.1' Rt	12" DIP	Within Prop Roadway
R18	*Fire Hydrant	City of Phoenix	1280+87.76, 51.9' Rt	1280+87.76, 60.1' Rt	12" DIP	Within Prop Roadway
R19	*Fire Hydrant	City of Phoenix	1287+46.07, 67.9' Rt	1287+35.55, 54.8' Rt	12" DIP	Within Prop Roadway
R23	Fire Hydrant	City of Tolleson	1305+79.09, 76' Lt	1305+76.50, 76' Lt	16" ACP	Within Prop Roadway
R24	Fire Hydrant	City of Tolleson	1310+01.00, 61' Lt	1309+92.00, 67' Lt	16" ACP	Within Prop Roadway
R39	Fire Hydrant	City of Phoenix	411+15.57, 42' Lt	411+15.70, 60.5' Lt	12" DIP	Within Prop Roadway
R41	Fire Hydrant	City of Tolleson	422+91.00, 60' Lt	422+91.00, 62' Lt	12" DIP	Within Prop Roadway

*These hydrants are recently installed and may be re-installed at the location indicated. All other hydrants to be salvaged and replaced with new hydrants installed at the location indicated.

Existing Fire Hydrant Relocation
N.T.S.
DETAIL U2A

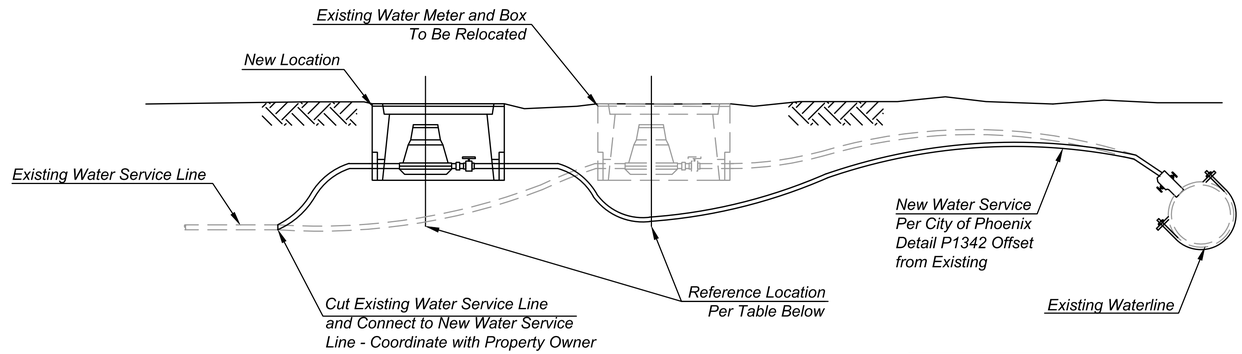


3M Marker Ball to be Placed 3' Above Buried Valve.

Ref. DWG. No.	Description	Owner	Existing Location	Proposed Location	Tapping Sleeve Location	Existing Waterline	Remarks
R14	Fire Hydrant	City of Phoenix	1262+61.09, 44' Rt	1262+89.54, 59' Rt	1262+90.19, 10' Rt	12" DIP	Within Prop Roadway
R17	Fire Hydrant	City of Tolleson	1277+91.00, 36' Lt	1287+09.00, 50.9' Lt	1278+05.00, 44.41' Lt	12" Unknown	Within Prop Roadway
R19	Fire Hydrant	City of Tolleson	1287+73.29, 83' Lt	1287+25.00, 63' Lt	1287+24.03, 80.52' Lt	16" ACP	Within Prop Roadway
R19	*Fire Hydrant	City of Phoenix	-	-	-	-	See Sheet U07

*This hydrant shall be relocated per Sheet U07. The City of Phoenix does not allow existing valves to be buried. Existing hydrant and valve shall be removed as shown on Sheet U07.

Existing Fire Hydrant Relocation
N.T.S.
DETAIL U2B



Ref. DWG. No.	Description	Owner	Existing Location	Proposed Location	Remarks
R16	Water Meters (4)	City of Phoenix	1272+83.24, 43.10' Rt	1272+83.24, 53.10' Rt	Within Prop Roadway

Existing Water Meter Relocation
N.T.S.
DETAIL U3

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
38007
ROBERT
LYONS
Date Signed 6/15/18
ARIZONA, U.S.A.
Expires 9/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

DETAIL

SHEET
U06 OF U07

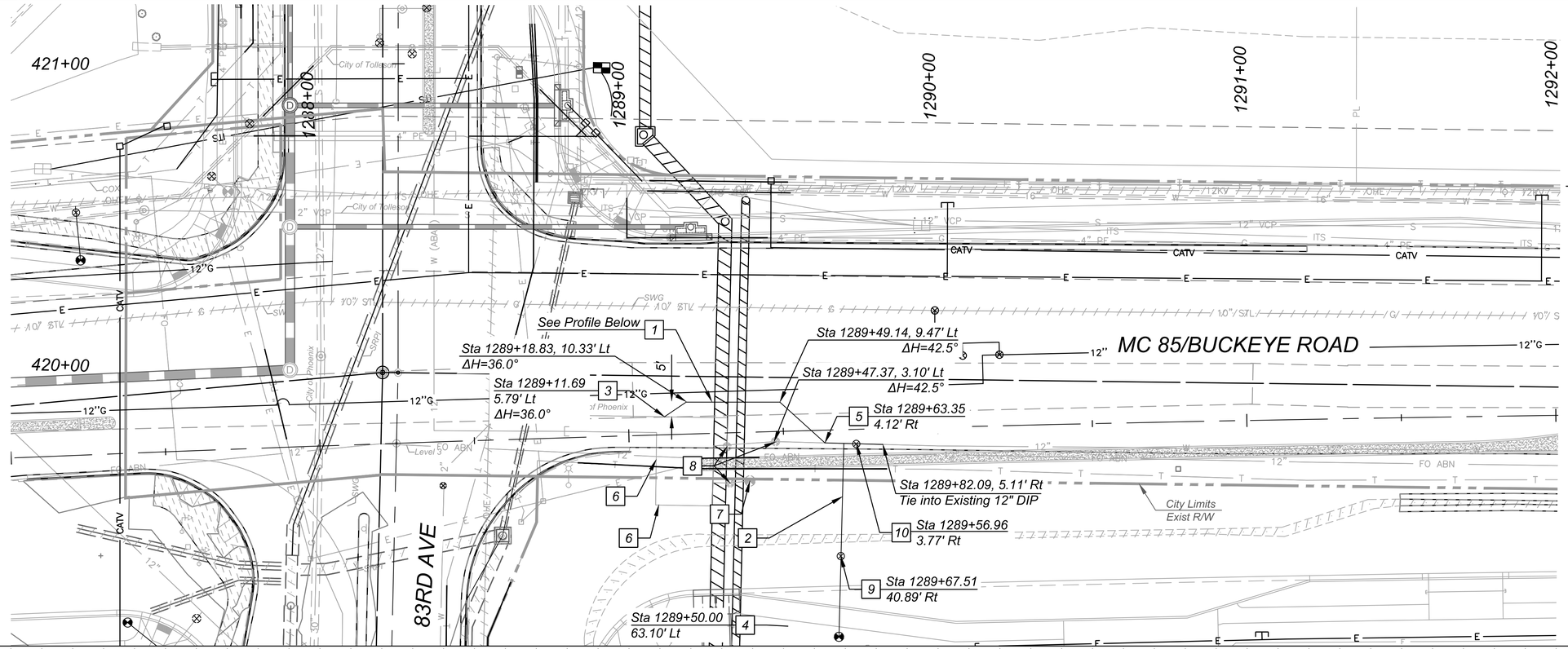
TRACS NO. _____

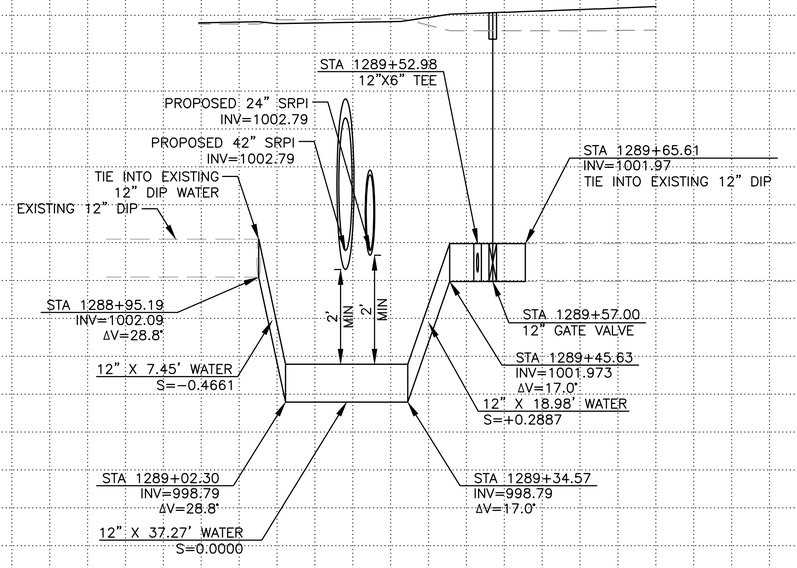
Plot Time: 10:13:57am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_U04.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	258	303	

1. Install 12" Restrained DIP Waterline
2. Install 6" Restrained DIP Waterline
3. Tie into Existing DIP with 45° Fitting Rotated to Fit, Include Thrust & Anchor Block Per MAG Detail 380 & 381
4. Install Fire Hydrant Per COP Detail P1360
5. Install 12" X 6" Tee
6. Remove Existing 12" DIP
7. Remove Existing Fire Hydrant
8. Remove Existing 12" Gate Valve
9. Install 6" Gate Valve Per MAG Std Det 391
10. Install 12" Gate Valve Per MAG Std Det 391

FOR INFORMATION ONLY.
WORK TO BE DONE BY
CITY OF PHOENIX.





GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL
0 1 2 4
VERTICAL

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 9/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

WATERLINE REMOVAL / RELOCATION
PLAN AND PROFILE

SHEET U07 OF U07

TRACS NO. _____

Plot Time: 10:14:39am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_U05.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	259	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

6	Remove Guardrail Sta 1198+70 to Sta 1200+50 Rt	180 Lf
50	Remove Conc Lined Ditch Sta 1198+42 to Sta 1200+50 Rt	208 Lf
74	Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45	165 Lf
75	Install 18" Type III RGRCP Pipe and Maintenance Road Per Detail U5, See Sheet R45	89 Lf
76	Install Headwall per MAG Det 501-1 & 501-2 Sta 1198+42 Rt Sta 1199+12 Rt	2 Ea
79	Install Concrete Pipe Collar Per MAG Std Det 505 Sta 1198+57, 36' Rt Sta 1199+04, 82' Rt	2 Ea

△ REMOVAL/RELOCATE BY OTHERS △

SEC 9
T1N-R1E

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

97th Ave

Holsum Bakery Inc.
101-05-001S

Exist Public Utility Esmt

City Limits
Exist R/W

Exist ITS
Protect in Place

CITY OF TOLLESON
MARICOPA COUNTY

MC 85/BUCKEYE ROAD

Section Line

Transition per Detail U5 See Sheet R45

Sta 1198+42.46, 36' Rt

MC 85 Const ℄

MATCH LINE STA 1200+50 (SEE SHT R02)

MARICOPA COUNTY
CITY OF PHOENIX

City Limits
Exist R/W

8' PUE

New R/W

43' TCE

Sta 1199+12.17, 82' Rt
Inv. Elev. = 993.78

Headwall & Transition per Detail U5 See Sheet R45

New TCE

PI +65.74, 82' Rt
Radius = 7'

New DE

42' DE

53' TCE

PI +65.74, 124' Rt
Radius = 24'

New Maintenance Road

New Private Irrigation

Sta 1200+50.00, 124' Rt
Inv. Elev. = 993.99

SEC 16
T1N-R1E

Elizabeth O. Garretson LLC
101-14-008-N
101-14-008-M

N

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil) 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1196+00 to Sta 1200+50

SHEET R01 OF R45

TRACS NO. _____

Plot Time: 10:15:04am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R19A.dwg

Plot Time: 10:15:30am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R19.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	260	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

6 Remove Guardrail — 450 Lf
Sta 1200+50 to Sta 1205+00 Rt

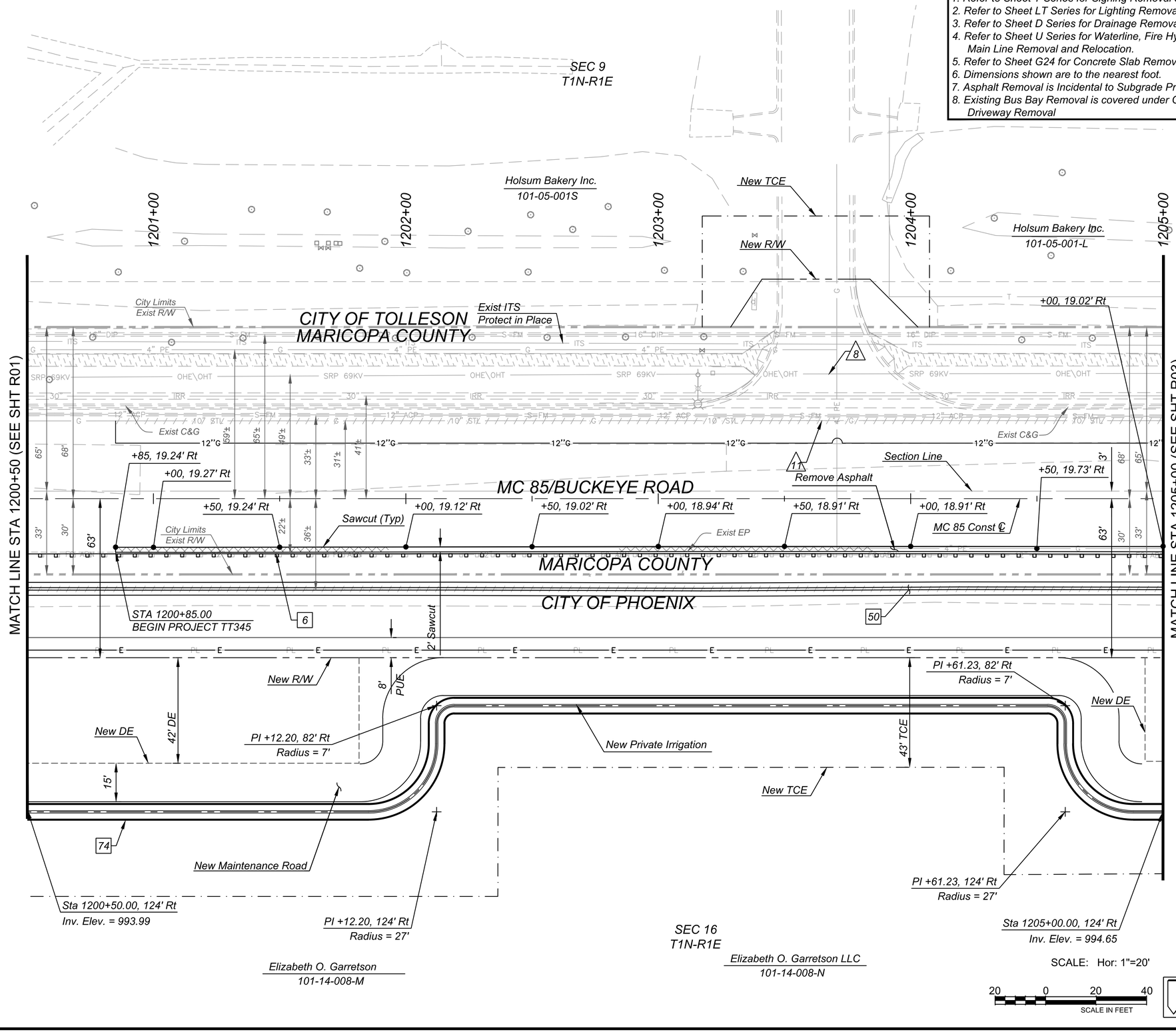
50 Remove Conc Lined Ditch — 450 Lf
Sta 1200+50 to Sta 1205+00 Rt

74 Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45 — 505 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△8 Relocate Existing CenturyLink Facilities by CenturyLink

△11 Relocate Existing Southwest Gas Facilities by Southwest Gas



SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 06/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1200+50 to Sta 1205+00

SHEET R02 OF R45

TRACS NO. _____

Plot Time: 9:05:13am
Plot Date: 6/15/2018
Plotted By: mark.flood
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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	261	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1206+50 to Sta 1210+00 Lt	350 Lf
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 1208+16, 36' Rt Sta 1208+56, 40' Rt Sta 1209+88, 37' Rt	3 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	446 Lf
61	Remove Pipe 30", Backfill and Compact Sta 1208+19 to Sta 1208+51 Sta 1209+88 to Sta 1210+00	65 Lf
74	Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45	496 Lf
76	Install Headwall per MAG Det 501-1 & 501-2 Sta 1208+21 Rt	1 Ea
85	Install 18" Type V RGRCP Pipe and Maintenance Road Per Detail U5, See Sheet R45	185 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△2 Relocate Existing SRPP (Distribution) Facility by SRPP (Distribution)

△3 Adjust Existing Southwest Gas Facility by Southwest Gas

△8 Relocate Existing CenturyLink Facilitites by CenturyLink

△11 Relocate Existing Southwest Gas Facilities by Southwest Gas

△16 Relocate Existing Fence By Others

△17 Relocate Existing Gate By Others

NO.	REVISION	BY	DATE
△1			
△2			
△3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer, Civil — 38007 ROBERT LYONS — Date Signed 6/15/18 — ARIZONA, U.S.A. — Expires 06/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1205+00 to Sta 1210+00

SHEET R03 OF R45

TRACS NO. _____

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

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

Xeriscapes Unlimited Inc
101-14-002-A
101-14-002-B

MATCH LINE STA 1205+00 (SEE SHT R02)
MATCH LINE STA 1210+00 (SEE SHT R04)
1205+00
1206+00
1207+00
1208+00
1209+00
1210+00
SEC 9
T1N-R1E
SEC 16
T1N-R1E
Holsum Bakery Inc.
101-05-001-S
City Limits
Exist R/W
CITY OF TOLLESON
MARICOPA COUNTY
Exist ITS
Protect in Place
MC 85/BUCKEYE ROAD
MARICOPA COUNTY
CITY OF PHOENIX
Elizabeth O. Garretson LLC
101-14-008-N
Elizabeth O. Garretson
101-14-008-M
Exist C&G
+50.00, 35.6' Lt
+00, 18.72' Rt
+50, 18.91' Rt
+50.00, 18.8' Rt
Sawcut
+00, 19.02' Rt
Section Line
Remove Asphalt
MC 85 Const ℄
Exist EP
New R/W
New DE
New Private Irrigation
New Maintenance Road
New TCE
Sta 1205+00.00, 124' Rt
Inv. Elev. = 994.65
Sta 1208+21.94, 124' Rt
Inv. Elev. = 995.10
Headwall & Transition
per Detail U5
See Sheet R45
Mound Backfill Over Pipe
to Achieve 1' Min Cover
with 4:1 Side Slopes
20' SRP
Irrigation Esmt
2' SWCT
8' PUE
41' DE
57'
84' TCE
21'
63'
65'
68'
30'
33'
3'
12"G
SRP 69KV
OHE\OHT
ITS
IRR
S-FM
16" DIP
12" ACP
4" PE
2" PE
2" GAS
2KV
SD
T
E
PL
OHE

Plot Time: 10:16:24am
Plot Date: 6/12/2018
Plotted By: justin.newton
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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	262	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1210+00 to Sta 1215+00 Lt	523 Lf
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1210+83, 64' Rt	1 Ea
5	Remove Conc Sidewalk Sta 1210+26 to Sta 1210+56 Lt Sta 1211+14 to Sta 1211+38 Lt	262 Sf
6	Remove Guardrail Sta 1210+10 to Sta 1210+72 Rt	79 Lf
9	Remove Conc Driveway Sta 1210+24 to Sta 1210+58 Lt	233 Sf
10	Remove Tree, Diameter >12" Sta 1211+01, 52' Rt Sta 1211+57, 51' Rt Sta 1212+56, 51' Rt Sta 1213+60, 51' Rt	4 Ea
17	Remove Headwall Sta 1210+13, 39' Rt Sta 1210+27, 48' Rt Sta 1210+74, 38' Rt Sta 1210+97, 38' Rt	4 Ea
19	Remove Conc Slab Sta 1210+00 to Sta 1215+00	6162 Sf
20	Rebuild Existing Manhole with Offset Manhole Per MAG Std Det 421 Sta 1212+82, 39' Lt	1 Ea
48	Remove Pipe, 12", Backfill & Compact Sta 1210+80 to Sta 1210+90, 22' Rt	10 Lf
50	Remove Conc Lined Ditch Sta 1210+13 to Sta 1210+74 Rt Sta 1210+97 to Sta 1215+00 Rt Sta 1210+71 to Sta 1215+00 Rt	887 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
74	Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45	421 Lf
75	Install 18" Type III RGRCP Pipe and Maintenance Road Per Detail U5, See Sheet R45	81 Lf
76	Install Headwall Per MAG Det 501-1 & 501-2 Sta 1211+07 Rt	1 Ea
79	Install Concrete Pipe Collar Per MAG Std Det 505 Sta 1210+16.76, 67.45 RT	1 Ea
85	Install 18" Type V RGRCP Pipe and Maintenance Road Per Detail U5, See Sheet R45	19 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△8 Relocate Existing CenturyLink Facility by CenturyLink

△11 Relocate Existing Southwest Gas Facility by Southwest Gas

△13 Remove or Relocate Existing SRPI facilities by Contractor. See Attached SRPI Plans

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1210+00 to Sta 1215+00

SHEET R04 OF R45

TRACS NO. _____

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

Plot Time: 10:16:52am
Plot Date: 6/12/2018
Plotted By: justin.newton
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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	263	303	

☐ 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
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1215+11, 39' Lt Sta 1216+89, 38' Lt Sta 1219+45, 38' Lt	3 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	1729 Sf
8	Remove Conc Single Curb Sta 1216+36 to Sta 1216+76 Lt Sta 1217+25 to Sta 1217+65 Lt	126 Lf
9	Remove Conc Driveway Sta 1216+77 to Sta 1217+24 Lt	3898 Sf
10	Remove Tree, Diameter >12" Sta 1215+08, 54' Rt Sta 1216+09, 51' Rt Sta 1218+07, 48' Rt Sta 1218+59, 47' Rt Sta 1219+12' 46' Rt Sta 1219+59, 44' Rt	6 Ea
12	Remove Conc Valley Gutter Sta 1216+36 to Sta 1219+92 Lt	2423 Sf
19	Remove Conc Slab Sta 1215+00 to Sta 1215+50 Sta 1219+50 to Sta 1220+00	900 Sf
50	Remove Conc Lined Ditch Sta 1215+00 to Sta 1220+00 Rt	1000 Lf
74	Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45	529 Lf
78	Adjust Existing Metal Grate Sta 1217+92, 37' Lt	1 Ea

△ REMOVAL/RELOCATE BY OTHERS △

△8 Relocate Existing CenturyLink Facility by CenturyLink

△11 Relocate Existing Southwest Gas Facility by Southwest Gas

△13 Remove or Relocate Existing SRPI Facilities by Contractor See Attached SRPI Plans

NO.	REVISION	BY	DATE
△1			
△2			
△3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

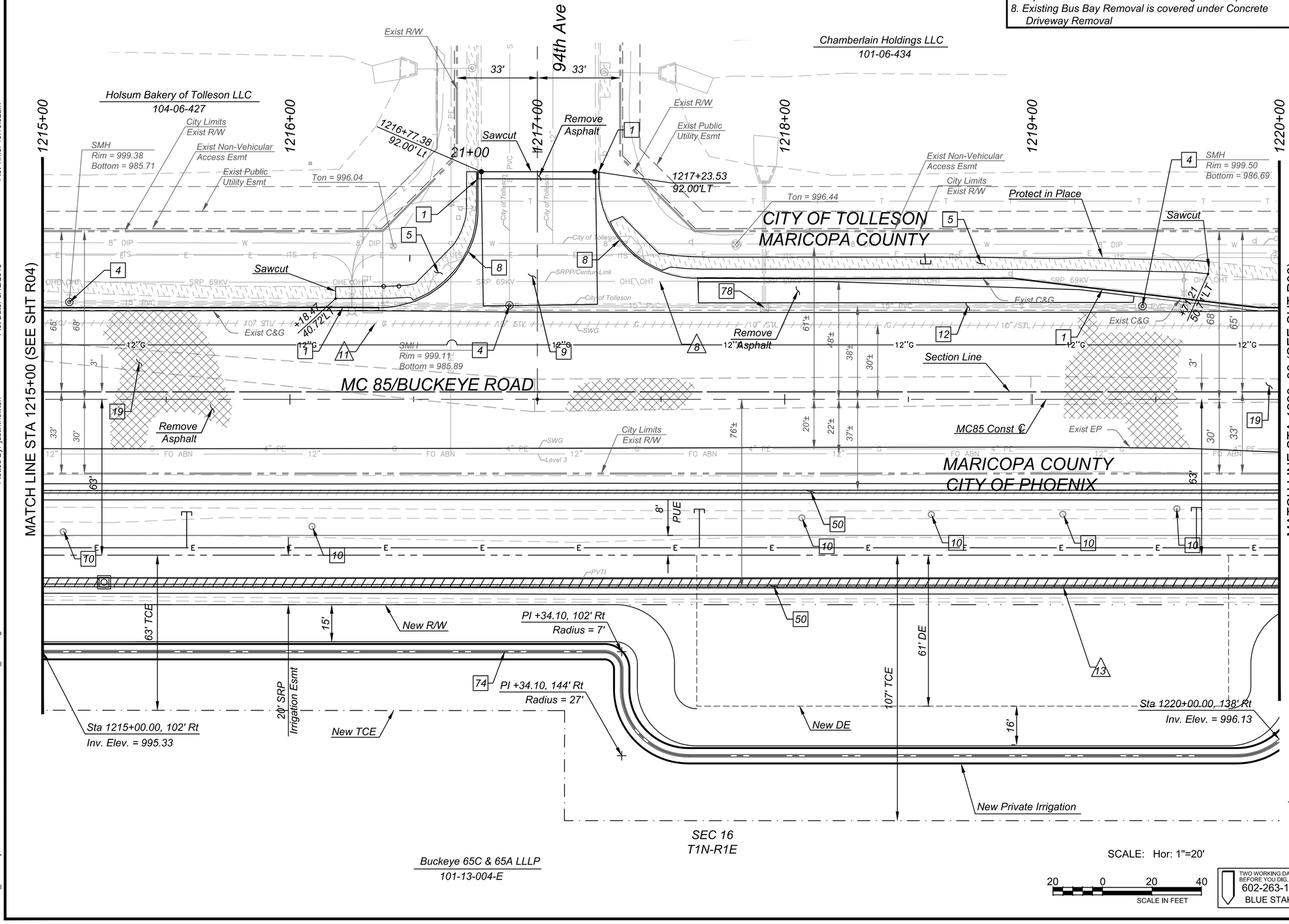
Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, USA. Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1215+00 to Sta 1220+00

SHEET R05 OF R45

TRACS NO. _____



Plot Time: 10:17:19am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	264	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1220+00 to Sta 1225+00 Lt	500 Lf
3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 1220+25, 61' Lt	1 Ea
5	Remove Conc Sidewalk Sta 1221+50 to Sta 1223+50 Lt Sta 1224+12 to Sta 1224+35 Lt	1144 Sf
6	Remove Guardrail Sta 1220+17 to Sta 1225+00 Rt	483 Lf
10	Remove Tree, Diameter >12" Sta 1220+09, 47' Rt Sta 1220+63, 47' Rt Sta 1221+15, 47' Rt Sta 1221+60, 46' Rt Sta 1222+05, 44' Rt Sta 1224+14, 43' Rt Sta 1224+55, 44' Rt	7 Ea
19	Remove Conc Slab Sta 1220+00 to Sta 1225+00	3695 Sf
20	Rebuild Existing Manhole with Offset Manhole Per MAG Std Det 421 Sta 1223+73, 39' Lt	1 Ea
50	Remove Conc Lined Ditch Sta 1220+00 to Sta 1225+00 Rt	1000 Lf
74	Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45	554 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△8 Relocate Existing CenturyLink Facility by CenturyLink

△11 Relocate Existing Southwest Gas Facility by Southwest Gas

△13 Remove or Relocate Existing SRPI Facilities by Contractor See Attached SRPI Plans

SEC 9
T1N-R1E

Chamberlain Holdings LLC
101-06-434

Chamberlin Holdings LLC
101-06-431

1220+00 | 1221+00 | 1222+00 | 1223+00 | 1224+00 | 1225+00

MATCH LINE STA 1220+00 (SEE SHT R05)

MATCH LINE STA 1225+00 (SEE SHT R07)

Exist Public Utility Esmt

Exist Non-Vehicular Access Esmt

New TCE

Exist ITS Protect in Place

Top = Ukn

City Limits Exist R/W

Sawcut

10' TCE

CITY OF TOLLESON

MARICOPA COUNTY

MC 85/BUCKEYE ROAD

Remove Asphalt

+50.00 40.60'LT

+50.00 22.39'LT

+12.36 42.18'LT

+35.29 43.02'LT

Exist C&G

SMH
Rim = 1000.64
Bottom = 997.54 (N)

Section Line

MC 85 Const ℄

Exist EP

City Limits Exist R/W

MARICOPA COUNTY

CITY OF PHOENIX

PUE

New R/W

PI +65.40, 103' Rt
Radius = 7'

New Private Irrigation

63' TCE

21'

20' SRP Irrigation Esmt

62' DE

New DE

15'

New TCE

PI +33.12, 102' Rt
ΔH=1° Rt

PI +09.79, 102' Rt
Radius = 7'

PI +09.79, 144' Rt
Radius = 27'

107' TCE

PI +64.64, 144' Rt
Radius = 27'

Sta 1220+00.00, 138' Rt
Inv. Elev. = 996.27

Sta 1225+00.00, 147' Rt
Inv. Elev. = 997.07

SEC 16
T1N-R1E

Buckeye 65C & 65A LLLP
101-13-004-E

Buckeye 65C & 65A LLLP
101-13-004-F

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
CERTIFICATE NO.
38007
ROBERT LYONS
Date Signed 6/15/18
ARIZONA, USA
Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

REMOVAL AND RELOCATION SHEET
1220+00 to Sta 1225+00

SHEET R06 OF R45

TRACS NO. _____

Plot Time: 10:17:46am
Plot Date: 6/12/2018
Plotted By: justin.newton
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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	265	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1225+00 to Sta 1227+27 Lt Sta 1228+04, 76' to 80' Lt Sta 1228+30 to Sta 1230+00 Lt	484 Lf
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 1228+67 Lt	955 Sf
6	Remove Guardrail Sta 1225+00 to Sta 1229+92 Rt	492 Lf
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	80 Lf
9	Remove Conc Driveway Sta 1227+56 to Sta 1228+04 Lt	1283 Sf
10	Remove Tree, Diameter >12" Sta 1226+08, 45' Rt Sta 1226+65, 42' Rt Sta 1227+09, 44' Rt Sta 1227+56, 37' Rt Sta 1228+11, 39' Rt Sta 1228+62, 34' Rt Sta 1229+15, 30' Rt Sta 1229+67, 33' Rt	8 Ea
12	Remove Conc Valley Gutter Sta 1227+27 to 1228+30 Lt	384 Sf
19	Remove Conc Slab Sta 1225+00 to Sta 1230+00	4738 Sf
50	Remove Conc Lined Ditch Sta 1225+00 to Sta 1230+00 Rt	1000 Lf
74	Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45	556 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△8 Relocate Existing CenturyLink Facility by CenturyLink

△11 Relocate Existing Southwest Gas Facility by Southwest Gas

NO.	REVISION	BY	DATE
4			
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil) 38007 ROBERT LYONS Date Signed 6.15.18 ARIZONA, U.S.A. Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1225+00 to Sta 1230+00

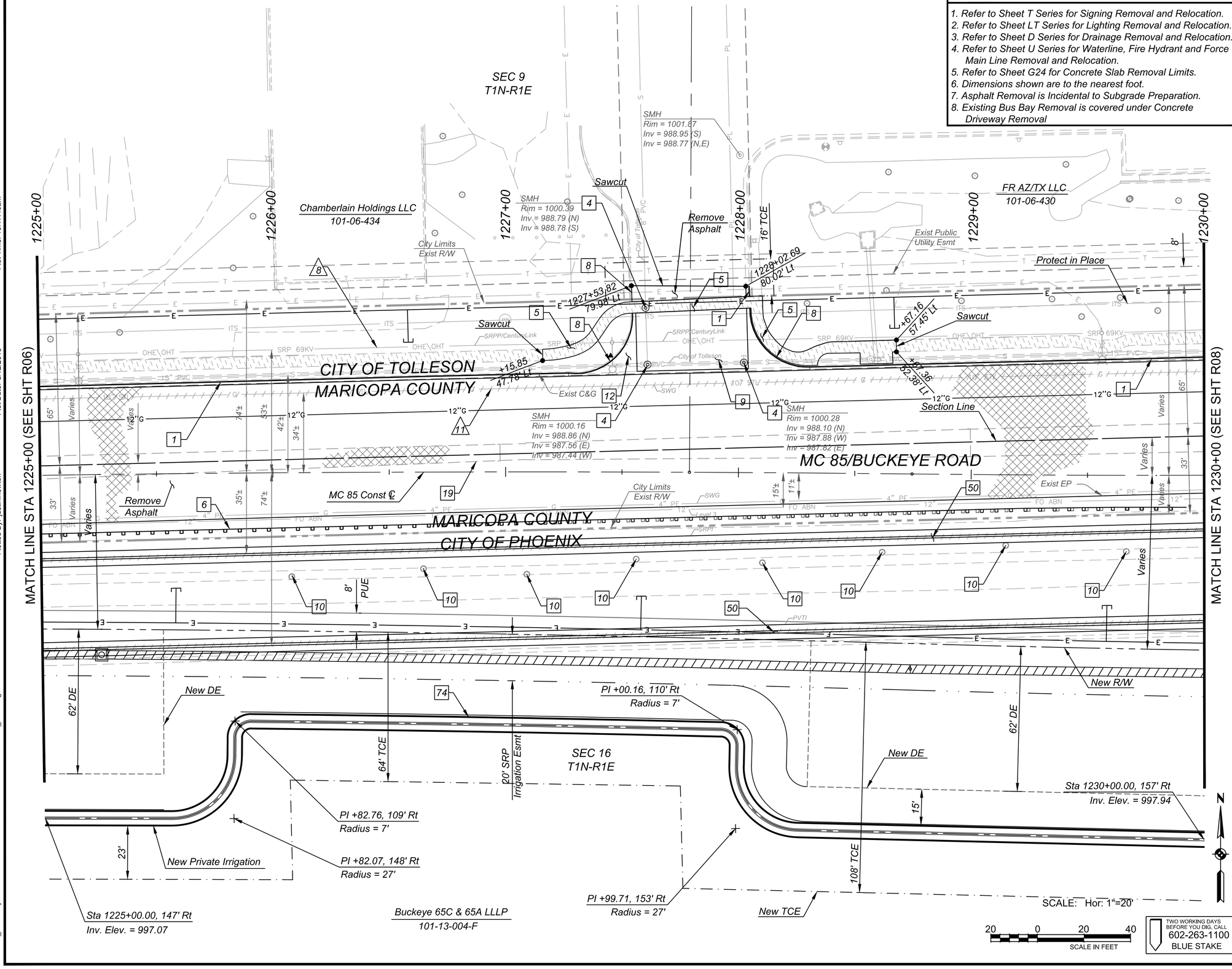
SHEET R07 OF R45

TRACS NO. _____

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

SCALE IN FEET 20 0 20 40

SCALE: Hor: 1"=20'



Plot Time: 10:18:12am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R25.dwg

△ REMOVAL/RELOCATE BY OTHERS △

△13 Remove or Relocate Existing SRPI Facilities by Contractor See Attached SRPI Plans

△16 Relocate Existing Fence By Others

△20 Remove Bollard By Others

△21 Abandon Existing Southwest Gas Facility by Southwest Gas

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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	266	303	

☐REMOVAL/RELOCATE & CONSTRUCT☐

1	Remove Conc C&G Sta 1230+00 to Sta 1231+80 Lt Sta 1232+46, 84' to 85' Lt Sta 1232+71 to Sta 1235+00 Lt	487 Lf
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1232+33, 56' Lt Sta 1233+26, 56' Lt	2 Ea
5	Remove Conc Sidewalk Sta 1231+64 to Sta 1235+00 Lt	1900 Sf
8	Remove Conc Single Curb Sta 1231+80 to Sta 1232+06 Lt Sta 1232+06, 84' to 85' Lt Sta 1232+15 to Sta 1232+35 Island Lt Sta 1232+46 to Sta 1232+71 Lt	137 Lf
9	Remove Conc Driveway Sta 1232+08 to Sta 1232+45 Lt	763 Sf
10	Remove Tree, Diameter >12" Sta 1230+11, 32' Rt Sta 1230+58, 30' Rt Sta 1231+10, 31' Rt Sta 1232+12, 29' Rt Sta 1232+65, 32' Rt Sta 1233+21, 106' Lt Sta 1233+60, 90' Lt Sta 1233+71, 202' Lt Sta 1233+83, 91' Lt Sta 1233+94, 151' Lt Sta 1234+07, 93' Lt Sta 1234+30, 172' Lt Sta 1234+40, 102' Lt Sta 1234+55, 80' Lt Sta 1234+73, 85' Lt Sta 1234+94, 93' Lt	16 Ea
11	Remove Chain Link Fence Sta 1233+68 to 1234+09, 21' to 61' Rt	132 Lf
12	Remove Conc Valley Gutter Sta 1231+80 to 1232+71 Lt	400 Sf
17	Remove Headwall Sta 1231+37, 20' Rt	1 Ea
19	Remove Conc Slab Sta 1230+00 to 1235+00	6287 Sf
50	Remove Conc Lined Ditch Sta 1230+00 to Sta 1231+37 Rt Sta 1230+00 to Sta 1235+00 Rt	638 Lf
61	Remove Pipe, 30", Backfill & Compact Sta 1233+83 to Sta 1235+00 Rt	116 Lf
62	Remove Pipe, 36", Backfill & Compact Sta 1231+37 to 1235+00 Rt	365 Lf
74	Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45	555 Lf
86	Remove Private Well See Special Provisions	1 Ea

△ REMOVAL/RELOCATE BY OTHERS △

△2 Relocate Existing SRPP (Distribution) Facility by SRPP (Distribution)

△8 Relocate Existing CenturyLink Facility by CenturyLink

△11 Relocate Existing Southwest Gas Facility by Southwest Gas

NO.	REVISION	BY	DATE
△1			
△2			
△3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, USA. Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1230+00 to Sta 1235+00

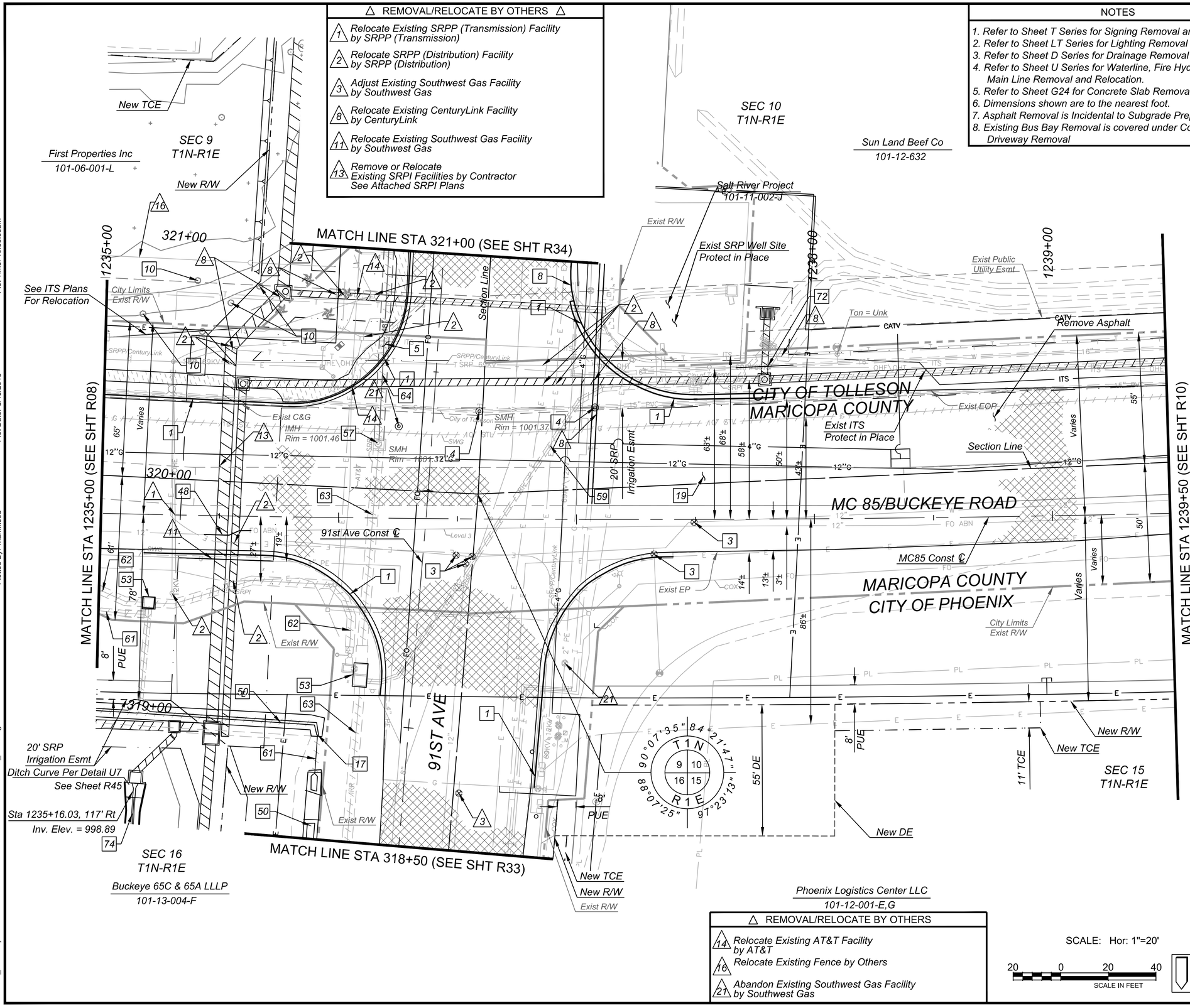
SHEET R08 OF R45

TRACS NO. _____

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

SCALE IN FEET 20 0 20 40

SCALE: Hor: 1"=20'



△ REMOVAL/RELOCATE BY OTHERS △

- △1 *Relocate Existing SRPP (Transmission) Facility by SRPP (Transmission)*
- △2 *Relocate SRPP (Distribution) Facility by SRPP (Distribution)*
- △3 *Adjust Existing Southwest Gas Facility by Southwest Gas*
- △8 *Relocate Existing CenturyLink Facility by CenturyLink*
- △11 *Relocate Existing Southwest Gas Facility by Southwest Gas*
- △13 *Remove or Relocate Existing SRPI Facilities by Contractor See Attached SRPI Plans*

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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

△ REMOVAL/RELOCATE BY OTHERS

- △14 *Relocate Existing AT&T Facility by AT&T*
- △16 *Relocate Existing Fence by Others*
- △21 *Abandon Existing Southwest Gas Facility by Southwest Gas*

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	267	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1235+00 to Sta 1236+28 Lt Sta 1236+99 to Sta 1237+84 Lt Sta 1235+19 to Sta 1236+18 Rt Sta 1236+87 to Sta 1237+40 Rt Sta 320+85 to Sta 321+00 Lt Sta 318+79 to Sta 319+30 Rt	560 Lf
3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 1236+49, 15' Rt Sta 1236+53, 19' Rt Sta 1236+56, 16' Rt Sta 1237+32, 14' Rt Sta 1237+49, 01' Rt	5 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1236+59, 45' Lt Sta 1237+08, 47' Lt	2 Ea
5	Remove Conc Sidewalk Sta 1235+00 to Sta 1236+28 Lt Sta 320+84 to Sta 321+00 Lt	927 Sf
8	Remove Conc Single Curb Sta 320+84 to Sta 321+00 Rt	17 Lf
10	Remove Tree, Diameter > 12" Sta 1235+16, 84' Lt Sta 1235+39, 99' Lt Sta 1235+53, 90' Lt Sta 1235+65, 97' Lt	4 Ea
17	Remove Headwall Sta 318+94, 38' Lt	1 Ea
19	Remove Conc Slab Sta 1235+00 to Sta 1239+50 Rt	6957 Sf
48	Remove Pipe, 12", Backfill & Compact Sta 1235+44, 8' Rt to Sta 1235+63, 6' Rt	20 Lf
50	Remove Conc Lined Ditch Sta 318+50 to Sta 318+79 Lt Sta 1235+00 to Sta 1235+92 Rt	127 Lf
53	Remove Irrigation Junction Structure Sta 1235+20, 35' Rt Sta 1236+07, 66' Rt	2 Ea
57	Remove Irrigation Manhole Sta 1236+16, 32' Lt	1 Ea
59	Remove Pipe, 18", Backfill & Compact Sta 1236+21, 69' Rt to Sta 1237+50, 63' Lt	202 Lf
61	Remove Pipe, 30", Backfill & Compact Sta 1235+00 to Sta 1235+20, 37' Rt Sta 318+78 to Sta 318+94 Lt	76 Lf
62	Remove Pipe, 36", Backfill & Compact Sta 1235+00, 32' Rt to Sta 1235+19, 37' Rt Sta 1235+23, 23' Rt to Sta 1236+07, 64' Rt	194 Lf
63	Remove Pipe, 42", Backfill & Compact Sta 318+50 to Sta 319+16, 22' Lt Sta 319+25 to Sta 320+16, 22' Lt	156 Lf
64	Remove Pipe, 48", Backfill & Compact Sta 320+20, 22' Lt to Sta 321+00, 23' Lt	79 Lf
72	Vert. Realign 16" Waterline MAG Det. 370 & Det U1, Sta 1237+79.34, 64.19' Lt See Sheet 255 - U04	1 Ea
74	Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45	16 Lf

NO.	REVISION	BY	DATE
4			
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

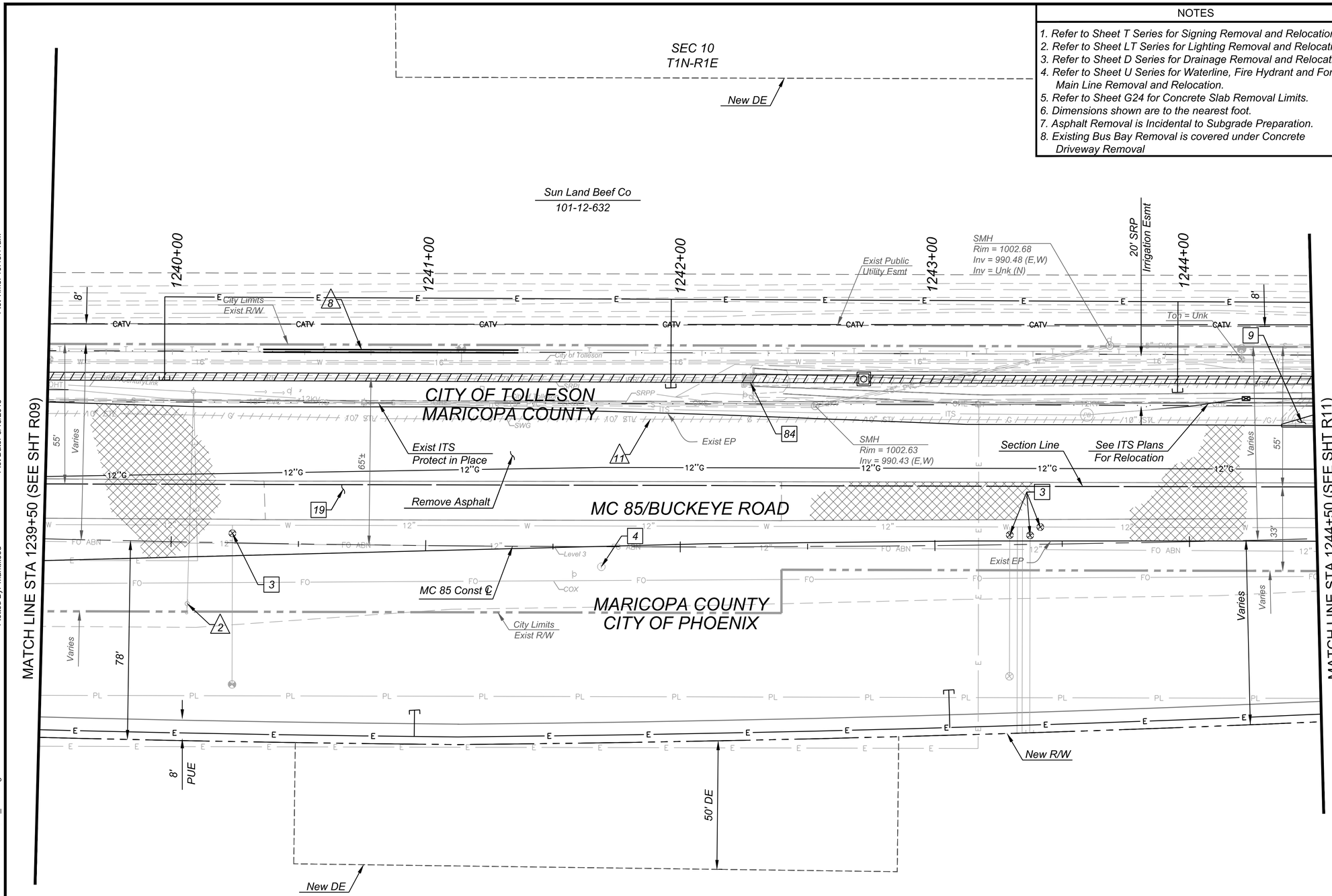
TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

REMOVAL AND RELOCATION SHEET
Sta 1235+00 to Sta 1239+50

SHEET R09 OF R45

TRACS NO. _____

Plot Time: 10:38:53am
Plot Date: 6/15/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R26.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	268	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 1240+24, 4' Lt Sta 1243+29, 4' Lt Sta 1243+37, 4' Lt Sta 1243+42, 7' Lt	4 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 & P1430 Sta 1241+69, 8' Rt	1 Ea
9	Remove Conc Driveway Sta 1244+37 to Sta 1244+50 Lt	45 Sf
19	Remove Conc Slab Sta 1239+50 to Sta 1244+50	7426 Sf
84	Remove Headwall Per SRPI Plans Sta 1242+27 Lt	1 Ea

△ REMOVAL/RELOCATE BY OTHERS △

△2 Relocate SRPP (Distribution) Facility by SRPP (Distribution)

△8 Relocate Existing CenturyLink Facility by CenturyLink

△11 Relocate Existing Southwest Gas Facility by Southwest Gas

NO.	REVISION	BY	DATE
△1			
△2			
△3			

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1239+50 to Sta 1244+50

SHEET R10 OF R45

TRACS NO. _____

Plot Time: 10:45:11am
Plot Date: 6/15/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R27.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	269	303	

NOTES

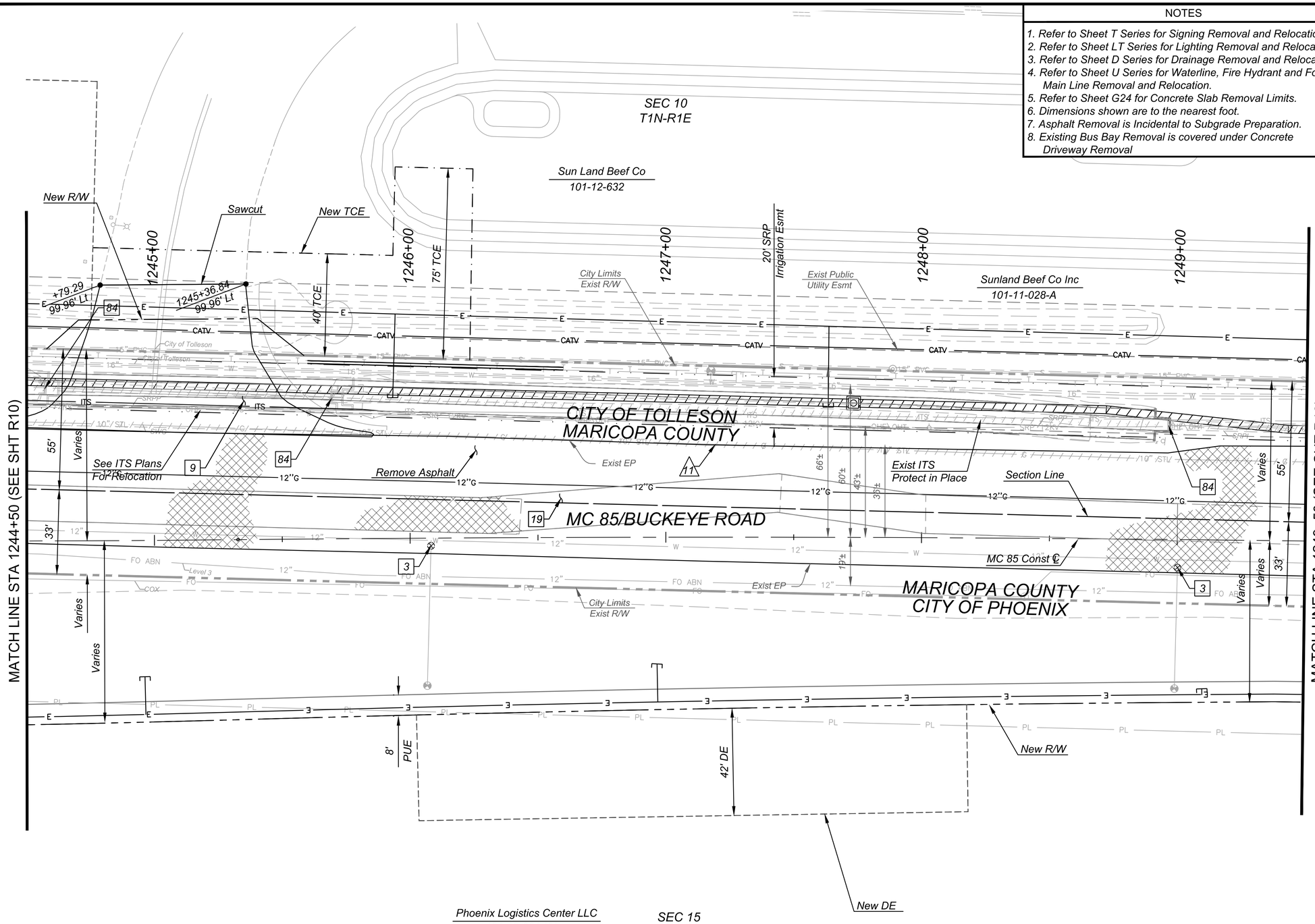
1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

- 3 — Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 — 2 Ea
  Sta 1246+08, 03' Rt
  Sta 1249+00, 11' Rt
- 9 — Remove Conc Driveway — 4509 Sf
  Sta 1244+50 to Sta 1245+86 Lt
- 19 — Remove Conc Slab — 7227 Sf
  Sta 1244+50 to Sta 1249+50
- 84 — Remove Headwall Per SRPI Plans — 3 Ea
  Sta 1244+57 Lt
  Sta 1245+70 Lt
  Sta 1248+96 Lt

△ REMOVAL/RELOCATE BY OTHERS △

△11 Relocate Existing Southwest Gas Facility by Southwest Gas



NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil) — 38007 — ROBERT LYONS — Date Signed 6/15/18 — ARIZONA, U.S.A. — Expires 09/30/2020

Kimley»Horn

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

REMOVAL AND RELOCATION SHEET
Sta 1244+50 to Sta 1249+50

SHEET R11 OF R45

TRACS NO. _____

Plot Time: 10:19:38am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Utilities\AZE1019_R28.dwg

Plot Time: 10:20:06am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R29.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	270	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1250+90 to Sta 1254+50, Lt	452 Lf
3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 1250+26, 57' Lt Sta 1250+96, 10' Rt Sta 1251+00, 12' Rt Sta 1251+92, 12' Rt	4 Ea
5	Remove Conc Sidewalk and Ramps Sta 1250+70 to Sta 1254+50, Lt	1916 Sf
8	Remove Conc Single Curb Sta 1205+08 to Sta 1250+47 Lt Sta 1250+70 to Sta 1250+90 Lt	90 Lf
9	Remove Conc Driveway Sta 1250+45 to Sta 1250+72 Lt	972 Sf
12	Remove Conc Valley Gutter and Apron Sta 1250+08 to Sta 1250+90 Lt	716 Sf
19	Remove Conc Slab Sta 1249+50 to Sta 1254+50	7535 Sf

△ REMOVAL/RELOCATE BY OTHERS △

△8 Relocate Existing CenturyLink Facility by CenturyLink

△11 Relocate Existing Southwest Gas Facility by Southwest Gas

NO.	REVISION	BY	DATE
△1			
△2			
△3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1249+50 to Sta 1254+50

SHEET R12 OF R45

TRACS NO. _____

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

Plot Time: 10:20:34am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R30.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	271	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1254+50 to Sta 1254+55 Lt Sta 1255+40 to Sta 1256+84 Lt Sta 1257+14, 68' to 85' Lt Sta 1257+84 to Sta 1259+50 Lt	533 Lf
3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 1254+84, 15' Rt Sta 1254+89, 12' Rt Sta 1257+76, 16' Rt Sta 1258+63, 16' Rt	4 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1255+13, 40' Lt Sta 1257+04, 59' Lt	2 Ea
5	Remove Conc Sidewalk and Ramp Sta 1254+50 to Sta 1254+74 Lt Sta 1255+41 to Sta 1258+45 Lt Sta 1257+26 to Sta 1257+43 Island Lt	2422 Sf
8	Remove Conc Single Curb Sta 1254+55 to Sta 1254+75 Lt Sta 1255+02 to Sta 1255+40 Lt Sta 1256+84 to Sta 1257+14 Lt Sta 1257+54, 68' to 85' Lt Sta 1257+55 to Sta 1257+84 Lt Sta 1257+25 to Sta 1257+44 Island Lt	260 Lf
9	Remove Conc Driveway Sta 1254+55 to Sta 1255+40 Lt Sta 1255+42 to Sta 1255+68 Lt Sta 1256+84 to Sta 1257+84 Lt	3144 Sf
17	Remove Headwall Sta 1256+40, 40' Lt Sta 1256+46, 37' Rt	2 Ea
19	Remove Conc Slab Sta 1254+50 to Sta 1259+50	7183 Sf
50	Remove Conc Lined Ditch Sta 1256+46 to Sta 1259+50 Rt	304 Lf
60	Remove Pipe, 24", Backfill & Compact Sta 1256+00 to Sta 1256+46 Rt	51 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△2 Relocate Existing Power Facilities by SRPP (Distribution)
△8 Relocate Existing CenturyLink Facility by CenturyLink
△11 Relocate Existing Southwest Facility by Southwest Gas
△16 Relocate Existing Fence by Others
△20 Relocate Bollard by Others
△21 Abandon Existing Southwest Gas Facility by Southwest Gas

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, USA. Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1254+50 to Sta 1259+50

SHEET R13 OF R45

TRACS NO. _____

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

Plot Time: 10:21:02am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R31.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	272	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1. Remove Conc C&G — 550 Lf
   Sta 1259+50 to Sta 1261+60 Lt
   Sta 1262+49 to Sta 1264+50 Lt
   Sta 1262+29, 87' Rt to Sta 1262+32, 55' Rt
2. Relocate Fire Hydrant — 0 Ea
   Per Det U2B and COP Det P1360
3. Adjust Water Valve to Grade per — 5 Ea
   COP Std Det R1391 & 1391-1
   Sta 1260+68, 18' Rt
   Sta 1260+72, 15' Rt
   Sta 1261+43, 49' Lt
   Sta 1262+07, 9' Rt
   Sta 1262+21, 16' Rt
4. Adjust Manhole Frame & Cover Per — 1 Ea
   MAG Std Det 422
   Sta 1262+17, 56' Lt
5. Remove Conc Sidewalk and Ramps — 2841 Sf
   Sta 1259+89 to Sta 1263+30 Lt
   Sta 1261+93 to Sta 1262+17 Lt Island
   Sta 1263+88 to 1264+11 Lt
   Sta 1262+29, 50' to 87' Rt
8. Remove Conc Single Curb — 147 Lf
   Sta 1261+60 to Sta 1261+88 Lt
   Sta 1262+24 to Sta 1262+49 Lt
   Sta 1261+94 to Sta 1262+17 Island Lt
9. Remove Conc Driveway — 792 Sf
   Sta 1261+60 to Sta 1262+49 Lt
17. Remove Headwall — 1 Ea
    Sta 1261+31, 67' Rt
19. Remove Conc Slab — 6090 Sf
    Sta 1259+50 to 1263+95
50. Remove Conc Lined Ditch — 199 Lf
    Sta 1259+50 to Sta 1261+32 Rt
58. Relocate Water Valve — 0 Ea
    Sta 1262+90, 12' Rt

△ REMOVAL/RELOCATE BY OTHERS △

△8 Relocate Existing CenturyLink Facility by CenturyLink

△11 Relocate Existing Southwest Gas Facility by Southwest Gas

△15 Relocate Existing Cox Facility by Cox

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, USA
Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1259+50 to Sta 1264+50

SHEET R14 OF R45

TRACS NO. _____

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

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

MATCH LINE STA 1259+50 (SEE SHT R13)

MATCH LINE STA 1264+50 (SEE SHT R15)

SEC 10
T1N-R1E

LBA Realty Fund III Company IX LLC
101-12-617

CITY OF TOLLESON
MARICOPA COUNTY

MC 85/BUCKEYE ROAD

MARICOPA COUNTY

CITY OF PHOENIX

SEC 15
T1N-R1E

87th Ave

MRE PAZ LLC
101-12-001-J

United States Department of the Interior
101-12-637

United States Department of the Interior
101-12-640

F-Star 67th Ave LLC/
F-Star Buckeye Rd LLC
101-12-004-645

Quarter Corner
POT 1262+06.74 MC 85 Const. ℄
Fnd ADOT B.C.H.H.

Sawcut
New TCE
Remove Asphalt
1261+88.84, 83.00' Lt
1262+23.45, 83.00' Lt
New R/W
City Limits
Exist R/W
Ton = 1001.79
+88.62, 58.68' Lt
Exist G&C
SMH
Rim = 1006.18
Inv = 994.18 (N)
Inv = 994.08 (E,W)
SDMH
Rim = 1001.92
Exist Public
Utility Esmt
+29.90, 52.19' Lt
+88.57, 54.81' Lt
+11.42, 55.65' Lt
MC 85 Const ℄
Section Line
By Others
Exist EP
Remove Asphalt
1261+96.10, 83.62' Rt
1262+27.03, 87.46' Rt
PUE
Mid-Section Line
39' TCE
30' TCE
31' TCE
9' TCE
32' TCE
27' TCE
84' TCE

Plot Time: 10:21:31am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Utilities\AZE1019_R32.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	273	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1 *Remove Conc C&G* — 397 Lf
Sta 1264+50 to Sta 1266+14 Lt
Sta 1267+32 to Sta 1269+50 Lt
Sta 1266+49, 75' to 90' Lt
Sta 1266+98, 86' to 90' Lt

2 *Relocate Fire Hydrant* — 0 Ea
per Det U2A and COP Det P1360

3 *Adjust Water Valve to Grade Per COP Std Det P1391 & P1391-1* — 5 Ea
Sta 1265+77, 14' Rt
Sta 1266+88, 43' Lt
Sta 1267+39, 42' Lt
Sta 1268+54, 16' Rt
Sta 1268+77, 18' Rt

4 *Adjust Manhole Frame & Cover Per MAG Std Det 422* — 1 Ea
Sta 1266+48, 34' Lt

5 *Remove Conc Sidewalk and Ramps* — 2211 Sf
Sta 1265+73 to Sta 1266+49 Lt
Sta 1266+99 to Sta 1269+10 Lt
Sta 1266+47, 57' to 77' Rt
Sta 1266+49, 75' to 90' Lt
Sta 1266+99, 86' to 90' Lt

8 *Remove Conc Single Curb* — 127 Lf
Sta 1266+14 to Sta 1266+49 Lt
Sta 1266+98 to Sta 1267+32 Lt
Sta 1266+52, 57' to 77' Rt
Sta 1266+93, 57' to 77' Rt

9 *Remove Conc Driveway* — 2442 Sf
Sta 1266+14 to Sta 1267+32 Lt

19 *Remove Conc Slab* — 5022 Sf
Sta 1265+64 to Sta 1269+50

△ REMOVAL/RELOCATE BY OTHERS

△8 *Relocate Existing CenturyLink Facility by CenturyLink*

△11 *Relocate Existing Southwest Gas Facility by Southwest Gas*

△19 *Relocate Existing Cox Facility by Cox*

NO.	REVISION	BY	DATE
4			
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

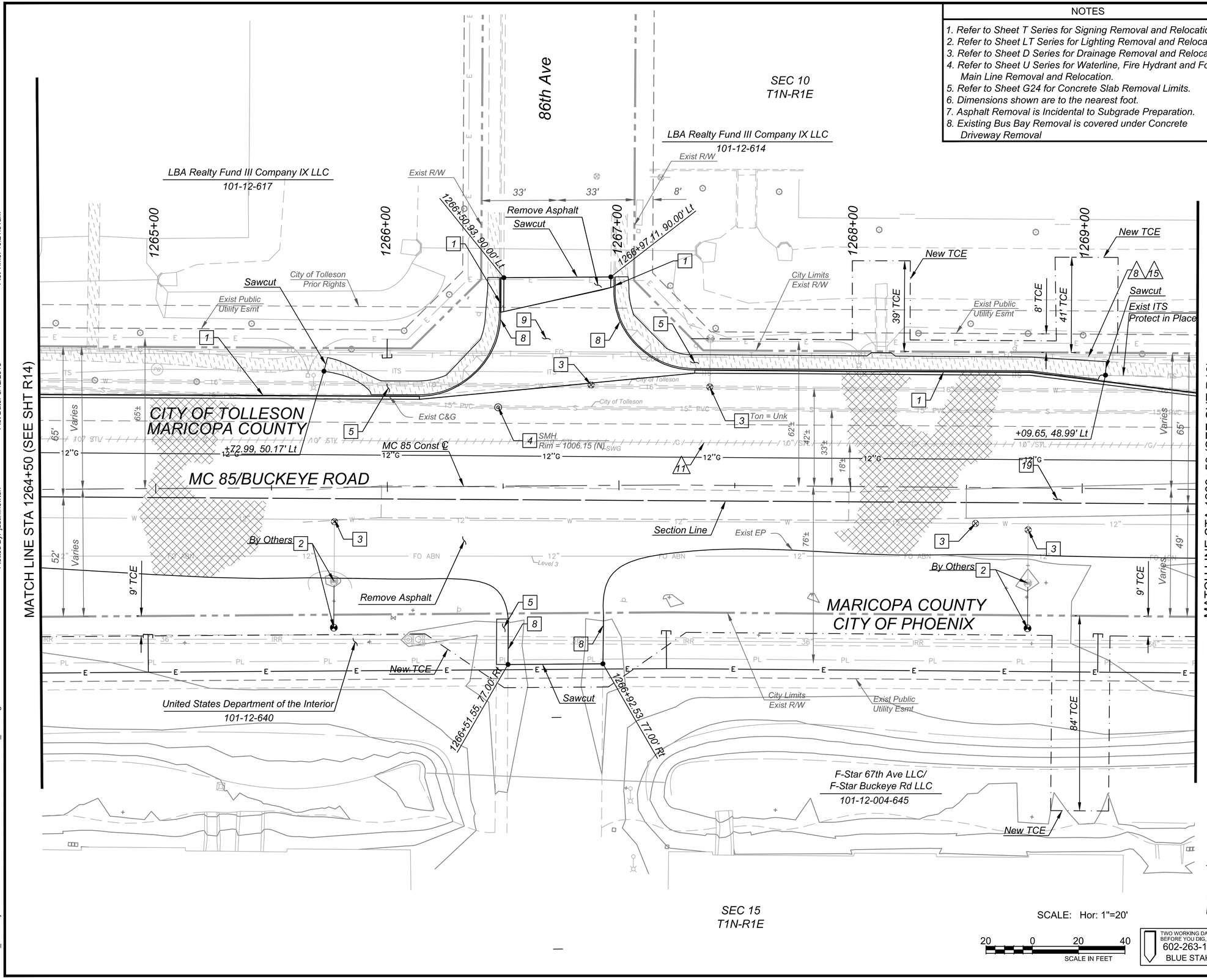
Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6.15.18 ARIZONA, USA. Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1264+50 to Sta 1269+50

SHEET R15 OF R45

TRACS NO. _____



TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

Plot Time: 10:21:57am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R33.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	274	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1269+50 to Sta 1274+50 Lt	528 Lf
2	Relocate Fire Hydrant per Det U2A and COP Det P1360	0 Ea
3	Adjust Water Valve to Grade per COP Std Det P1391 & 1391-1 Sta 1271+76, 16' Rt Sta 1274+18, 14' Rt	2 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1270+83, 33' Lt	1 Ea
5	Remove Conc Sidewalk Sta 1272+65 to 1274+50 Lt	1115 Sf
19	Remove Conc Slab Sta 1269+50 to Sta 1274+50	6728 Sf
66	Relocate Water Meter per Det U3 and COP Det P1363	4 Ea

△ REMOVAL/RELOCATE BY OTHERS △

△8 Relocate Existing CenturyLink Facility by CenturyLink

△11 Relocate Existing Southwest Gas Facility by Southwest Gas

△15 Relocate Existing Cox Facility by Cox

SEC 10
T1N-R1E

LBA Realty Fund III Company IX LLC
101-12-614

1270+00 1271+00 1272+00 1273+00 1274+00

MATCH LINE STA 1269+50 (SEE SHT R15)

MATCH LINE STA 1274+50 (SEE SHT R17)

Exist ITS
Protect in Place

Exist Public Utility Esmt

City Limits
Exist R/W

Ton = 1001.22

Sawcut

New TCE

9' TCE

40' TCE

15 8

5

Exist C&G

4 SMH
Rim = 1006.28

1

11

CITY OF TOLLESON
MARICOPA COUNTY

+64.59, 52.16' Lt

MC 85 Const ℄

MC 85/BUCKEYE ROAD

3

Section Line

2 By Others

66

19

Exist EP

Remove Asphalt

MARICOPA COUNTY
CITY OF PHOENIX

New TCE

City Limits
Exist R/W

Exist Public
Utility Esmt

86' TCE

United States Department of the Interior
101-12-640

F-Star 67th Ave LLC/
F-Star Buckeye Rd LLC
101-12-004-645

New TCE

SEC 15
T1N-R1E

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) 38007 ROBERT LYONS Date Signed 6.15.18 ARIZONA, USA. Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1269+50 to Sta 1274+50

SHEET R16 OF R45

TRACS NO. _____

Plot Time: 10:22:23am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R34.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	275	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1 Remove Conc C&G — 262 Lf
Sta 1274+50 to Sta 1276+90 Lt
Sta 1277+60, 60' to 82' Rt

2 Relocate Fire Hydrant — 1 Ea
Per Det U2A & U2B
and COP Det P1360

3 Adjust Water Valve to Grade per — 2 Ea
Cop Std Det P1391 & 1391-1
Sta 1274+76, 17' Rt
Sta 1277+86, 16' Rt

4 Adjust Manhole Frame & Cover Per — 2 Ea
MAG Std Det 422
Sta 1275+17, 35' Lt
Sta 1278+39, 36' Lt

5 Remove Conc Sidewalk and Ramps — 2423 Sf
Sta 1274+50 to Sta 1277+90 Lt
Sta 1277+31 to Sta 1277+50 Island Lt
Sta 1277+15, 60' to 82' Rt

8 Remove Conc Single Curb — 172 Lf
Sta 1276+90 to Sta 1277+20 Lt
Sta 1277+61 to Sta 1277+90 Lt
Sta 1277+31 to Sta 1277+50 Island Lt
Sta 1277+20, 54' to 90' Lt
Sta 1277+60, 57' to 90' Lt
Sta 1277+20, 60' to 82' Rt

9 Remove Conc Driveway — 1330 Sf
Sta 1276+90 to Sta 1277+90 Lt

19 Remove Conc Slab — 7035 Sf
Sta 1274+50 to Sta 1279+50

58 Relocate Water Valve — 1 Ea
Sta 1278+05, 51' Lt

72 Vert. Realign 16" Waterline, — 1 Ea
MAG Det. 370 & Det U1
Sta 1279+36.47, 44.83' Lt

△ REMOVAL/RELOCATE BY OTHERS △

△2 Relocate Existing SRPP (Distribution) by SRPP (Distribution)

△11 Relocate Existing Southwest Gas Facility by Southwest Gas

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1274+50 to Sta 1279+50

SHEET R17 OF R45

TRACS NO. _____

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

Plot Time: 10:22:48am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R35.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	276	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

2	Relocate Fire Hydrant Per Det U2A and COP Det P1360	0 Ea
3	Adjust Water Valve to Grade per Cop Std Det P1391 & 1391-1 Sta 1280+12, 13' Rt Sta 1280+87, 14' Rt Sta 1283+15, 11' Rt Sta 1283+87, 8' Rt	4 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 & P1430 Sta 1279+52, 36' Lt Sta 1283+85, 54' Lt Sta 1284+44, 59' Lt	3 Ea
5	Remove Conc Sidewalk and Ramps Sta 1284+19 to Sta 1284+50 Lt Sta 1283+32 to Sta 1283+50 Island Rt Sta 1283+33, 70' to 95' Rt	420 Sf
8	Remove Conc Single Curb Sta 1283+29 to Sta 1283+51 Rt Sta 1283+33, 66' to 95' Rt Sta 1283+63, 66' to 95' Rt Sta 1284+30 to Sta 1284+50 Lt	128 Lf
9	Remove Conc Driveway Sta 1284+30 to Sta 1284+50 Lt	61 Sf
19	Remove Conc Slab Sta 1279+50 to Sta 1284+21	5022 Sf

△ REMOVAL/RELOCATE BY OTHERS △

△2	Relocate Existing SRPP (Distribution) Facility by SRPP (Distribution)
△8	Relocate Existing CenturyLink Facility by CenturyLink
△11	Relocate Existing Southwest Gas Facility by Southwest Gas
△15	Relocate Existing Cox Facility by Cox

NO.	REVISION	BY	DATE
△1			
△2			
△3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6.15.18 ARIZONA, USA. Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1279+50 to Sta 1284+50

SHEET R18 OF R45

TRACS NO. _____

MATCH LINE STA 1279+50 (SEE SHT R17)

MATCH LINE STA 1284+50 (SEE SHT R19)

8300 Buckeye LLC
101-11-989

SEC 10
T1N-R1E

Colonial Trust Co Custodian
101-11-002-T

B & B & Black Co
101-11-986A

1280+00 1281+00 1282+00 1283+00 1284+00

SMH
Rim = 1007.51
Inv = 997.41 (N)
Inv = 997.31 (E,W)

Exist ITS
Protect in Place

Exist R/W

Remove Asphalt

New TCE

SMH
Rim = Unk

SMH
Rim = 1007.93
Inv = 998.13 (N,E,W)

CITY OF TOLLESON
MARICOPA COUNTY

Exist EP

Section Line

MC 85/BUCKEYE ROAD

MC 85 Const ℄

By Others

Remove Asphalt

Exist EP

Exist Fire Hydrant
Protect in Place

Sawcut

MARICOPA COUNTY
CITY OF PHOENIX

United States Department of the Interior
101-12-640

City Limits
Exist R/W

Exist Public
Utility Esmt

F-Star 67th Ave LLC/
F-Star Buckeye Rd LLC
101-12-645

1283+34.48, 95.15' Rt

1283+62.62, 94.99' Rt

58' TCE

New TCE

New TCE

F-Star Buckeye Rd LLC
101-12-646

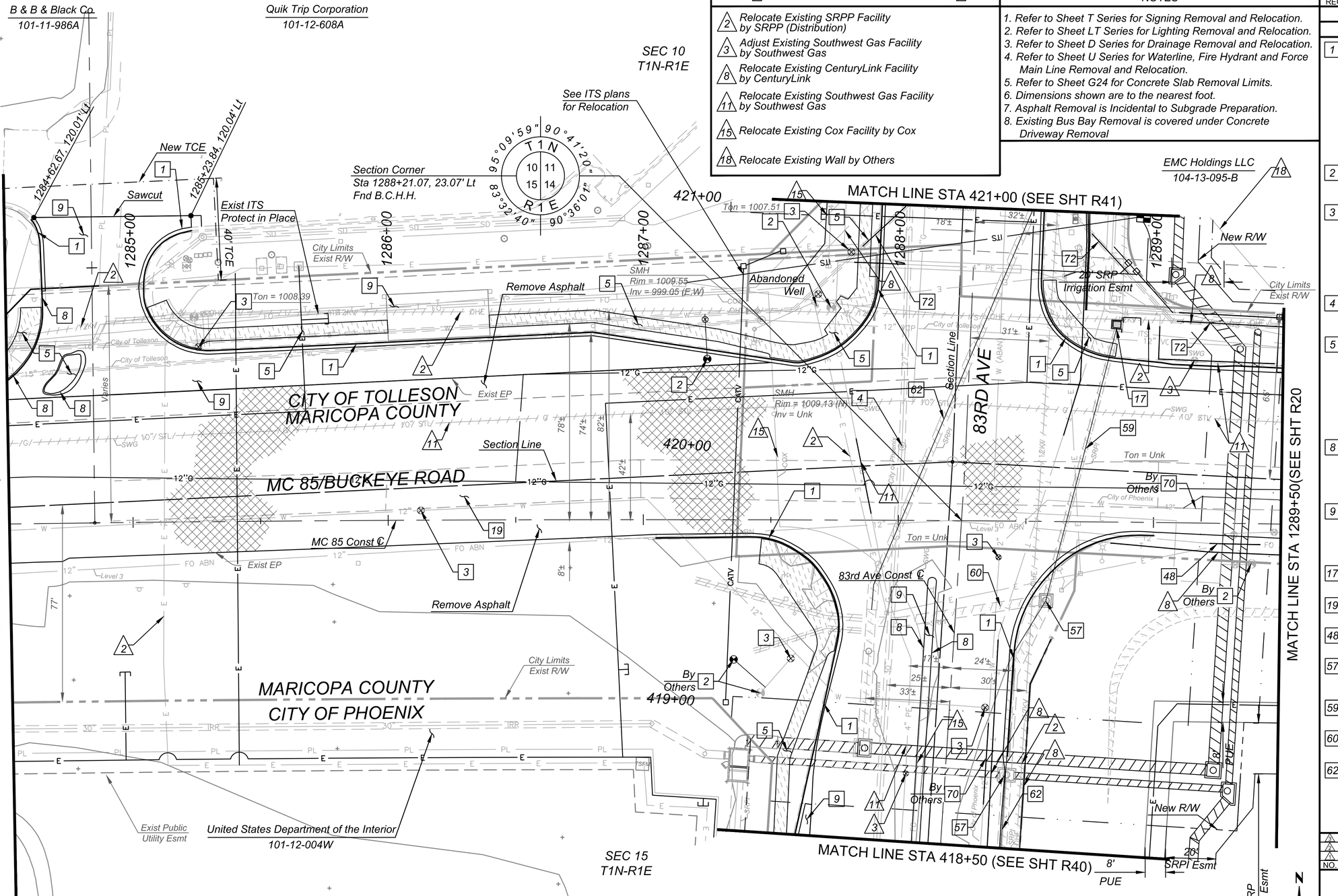
United States Department of the Interior
101-12-004-W

SEC 15
T1N-R1E

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE



△ REMOVAL/RELOCATE BY OTHERS △

- △2 Relocate Existing SRPP Facility by SRPP (Distribution)
- △3 Adjust Existing Southwest Gas Facility by Southwest Gas
- △8 Relocate Existing CenturyLink Facility by CenturyLink
- △11 Relocate Existing Southwest Gas Facility by Southwest Gas
- △15 Relocate Existing Cox Facility by Cox
- △18 Relocate Existing Wall by Others

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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	277	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

- 1 Remove Conc C&G — 1087 Lf
  Sta 1284+65, 91' to 119' Lt
  Sta 1285+05, 88' to Sta 1285+24, 114' Lt
  Sta 1285+05 to Sta 1287+92 Lt
  Sta 1288+55 to Sta 1289+50 Lt
  Sta 1287+05 to Sta 1287+77 Rt
  Sta 1288+45 to Sta 1289+00 Rt
  Sta 418+50 to Sta 419+29 Lt
  Sta 420+67 to Sta 421+00 Lt
  Sta 418+86 to Sta 419+27 Rt
  Sta 420+73 to Sta 421+00 Rt
- 2 Relocate Fire Hydrant — 1 Ea
  Per Det U2A & U2B, See Sht U6
  Per COP Det P1360, P1361, and P1362
- 3 Adjust Water Valve to Grade Per COP Std Det P1391 & P1391-1 — 6 Ea
  Sta 1285+26, 69' Lt
  Sta 1286+13, 4' Lt
  Sta 1287+58, 55' Rt
  Sta 1287+81, 106' Lt
  Sta 1288+35, 73' Rt
  Sta 1288+39, 14' Rt
- 4 Adjust Manhole Frame & Cover Per MAG Std Det 422 — 1 Ea
  Sta 1288+01, 29' Lt
- 5 Remove Conc Sidewalk — 3212 Sf
  Sta 1284+50 to Sta 1284+65 Lt
  Sta 1285+07 to Sta 1286+00 Lt
  Sta 1286+40 to Sta 1287+91 Lt
  Sta 1287+45 to Sta 1287+77 Rt
  Sta 1288+56 to 1288+85 Rt
  Sta 1284+66 to Sta 1284+80 Island Lt
  Sta 418+50 to Sta 419+31 Lt
  Sta 420+71 to Sta 421+00 Lt
- 8 Remove Conc Single Curb — 321 Lf
  Sta 1284+50 to Sta 1284+66 Lt
  Sta 1284+65 to Sta 1284+82 Island Lt
  Sta 1284+66, 85' to 91' Lt
  Sta 418+50 to Sta 419+54 Median Lt
- 9 Remove Conc Driveway — 7147 Sf
  Sta 1284+50 to Sta 1287+50 Lt
  Sta 1286+00 to Sta 1286+40 Lt
  Sta 418+50 to Sta 418+63 Lt
  Sta 418+50 to Sta 419+54 Lt
- 17 Remove Headwall — 1 Ea
  Sta 1288+85, 76 Lt
- 19 Remove Conc Slab — 6308 Sf
  Sta 1284+95 to Sta 1289+50
- 48 Remove Pipe, 12", Backfill & Compact — 20 Lf
  Sta 1289+22 to Sta 1289+42, 8'Rt
- 57 Remove Manhole — 2 Ea
  Sta 1288+58, 31' Rt
  Sta 418+79, 23' Rt
- 59 Remove Pipe, 18" Backfill & Compact — 111 Lf
  Sta 419+51, 35' Rt to Sta 420+55, 57' Rt
- 60 Remove Pipe, 24" Backfill & Compact — 64 Lf
  Sta 1287+91, 40' Rt to Sta 1288+55, 31' Rt
- 62 Remove Pipe, 36" Backfill & Compact — 269 Lf
  Sta 418+89, 33' Lt to Sta 421+00, 22' Rt
  Sta 418+50, 24' Rt to Sta 419+45, 35' Rt

☐ REMOVAL/RELOCATE ☐

- 70 Vert Realign 12" Waterline — 0 Ea
  COP Det P1370 and Dtl U1,
  Sta 418+82.66, 15.68' Rt
  Sta 1289+33.89, 9.90' Lt
- 72 Vert. Realign 16" Water Line — 3 Ea
  MAG Det. 370 & Det U1, See Sheet U05
  Sta 1287+94.61, 115.33' Lt
  Sta 1289+24.33, 78.34' Lt
  Sta 420+84.23, 53.34' Rt

NO.	REVISION	BY	DATE
△1			
△2			
△3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil)
Certificate No.
38007
ROBERT
LYONS
Date Signed 6/15/18
ARIZONA, U.S.A.
Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1284+50 to Sta 1289+50

SHEET R19 OF R45

TRACS NO. _____

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

Plot Time: 11:07:33am
Plot Date: 6/15/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R36.dwg

Plot Time: 1:19:45pm
Plot Date: 6/15/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Caddd\03-Sheets\Utilities\AZE1019_R37.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

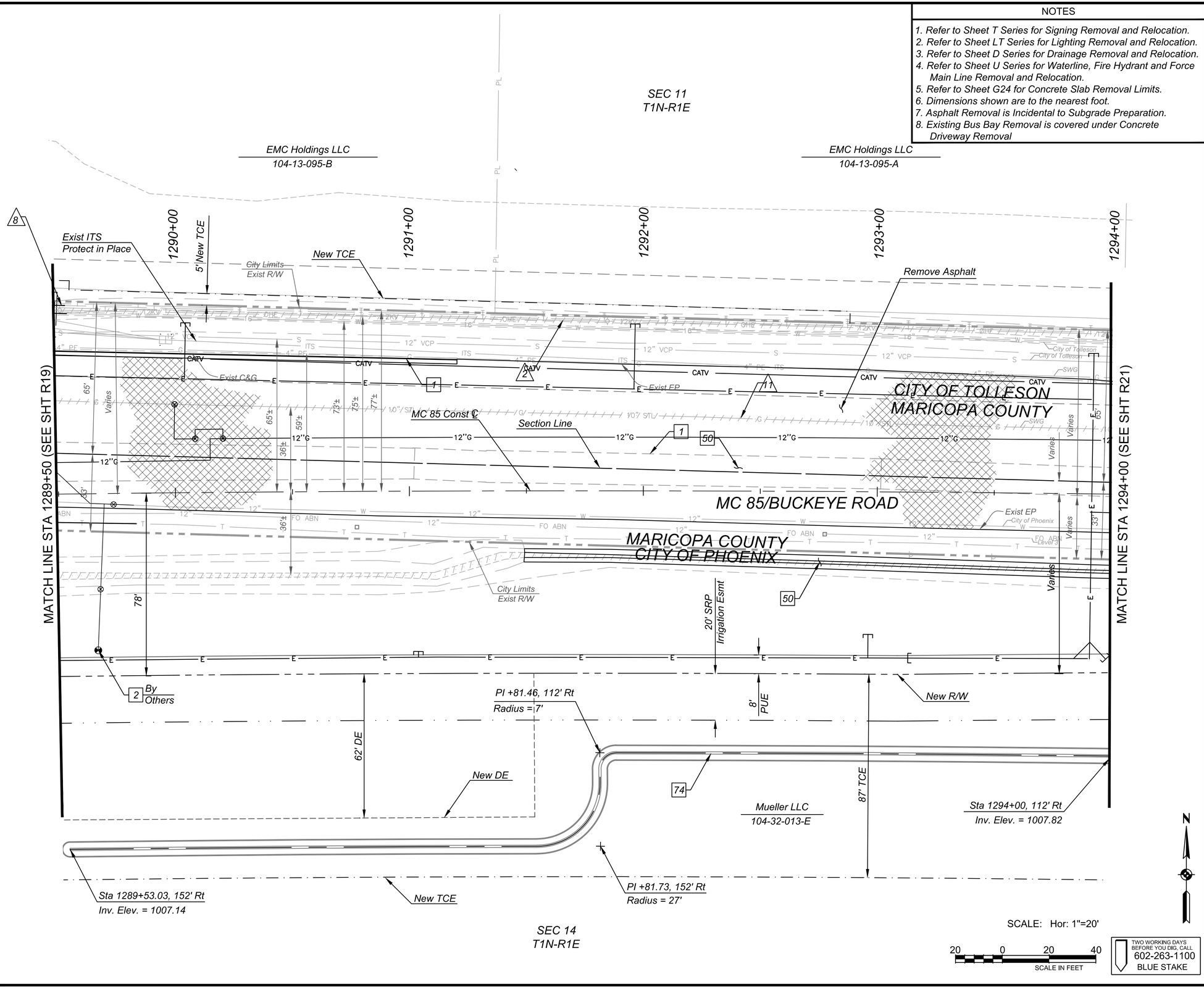
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	278	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1289+50 to Sta 1291+20 Lt	171 Lf
2	Relocate Fire Hydrant	0 Ea
19	Remove Conc Slab Sta 1289+50 to Sta 1294+00	5234 Sf
50	Remove Conc Lined Ditch Sta 1291+49 to Sta 1294+00 Rt	251 Lf
74	Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45	471 Lf

△ REMOVAL/RELOCATE BY OTHERS △

- △2 Relocate Existing SRPP Facility by SRPP
- △8 Relocate Existing CenturyLink Facility by CenturyLink
- △11 Relocate Existing Southwest Gas Facility by Southwest Gas



SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6.15.18 ARIZONA, U.S.A. Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1289+50 to Sta 1294+00

SHEET R20 OF R45

TRACS NO. _____

Plot Time: 1:22:43pm
Plot Date: 6/15/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R38.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	279	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

- 4 — Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1294+21, 56' Lt — 1 Ea
- 19 — Remove Conc Slab Sta 1294+00 to Sta 1298+50 — 6100 Sf
- 48 — Remove Pipe, 12", Backfill & Compact Sta 1297+19 to Sta 1297+29, 23' Rt — 10 Lf
- 50 — Remove Conc Lined Ditch Sta 1294+00 Rt to Sta 1298+50 — 450 Lf
- 70 — Vert Realign 12" Waterline COP Det P1370 & Det U1 Sta 1297+23.59, 16.85' Rt — 0 Ea
- 74 — Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45 — 473 Lf

△ REMOVAL/RELOCATE BY OTHERS △

- △8 — Relocate Existing CenturyLink Facility by CenturyLink
- △11 — Relocate Existing Southwest Gas Facility by Southwest Gas
- △17 — Relocate Existing Gate by Others

EMC Holdings LLC
104-13-095-A

EMC Holdings LLC
104-13-096

EMC Holdings LLC
104-13-094

Kent W Bunger & Shelly K Bunger
104-13-092

SEC 11
T1N-R1E

1294+00

1295+00

1296+00

1297+00

1298+00

1297+39.00, 80.00' Lt

1297+79.00, 80.00' Lt

4 SMH
Rim = Unk
Rim = Unk

Exist R/W

Exist ITS
Protect in Place

See ITS plans
For Relocation

Ton = 1008.43

Ton = 1007.87

New TCE
Sawcut

22' TCE

Exist ITS
Protect in Place

CenturyLink

City of Tolleson

CITY OF TOLLESON
MARICOPA COUNTY

MC 85/BUCKEYE ROAD

MC 85 Const ℄

Section Line

Exist EP

City Limits
Exist R/W

Remove Asphalt

50 48 8 70 By Others

19

MATCH LINE STA 1294+00 (SEE SHT R20)

MATCH LINE STA 1298+50 (SEE SHT R22)

New R/W

8' PUE

City Limits
Exist R/W

PI +01.39, 112' Rt
Radius = 7'

MARICOPA COUNTY
CITY OF PHOENIX

20' SRP Irrigation Esmt

91' TCE

69' DE

94' TCE

43' DE

SEC 14
T1N-R1E

74

Sta 1294+00, 112' Rt
Inv. Elev. = 1007.82

Mueller I LLC
104-32-013-E

PI +01.24, 152' Rt
Radius = 27'

New TCE

New DE

Mueller I LLC
104-32-421

Sta 1298+50, 152' Rt
Inv. Elev. = 1008.51

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, USA. Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1294+00 to Sta 1298+50

SHEET R21 OF R45

TRACS NO. _____

Plot Time: 10:24:39am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R39.dwg

△ REMOVAL/RELOCATE BY OTHERS △

2 Relocate SRPP Facility by SRPP

11 Relocate Southwest Gas Facility by Southwest Gas

17 Relocate Existing Gate by Others

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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	280	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1 Remove Conc C&G — 84 Lf
Sta 1301+28 to Sta 1301+50 Lt

3 Adjust Water Valve to Grade per COP Std Det P1391 & P1391-1 — 3 Ea
Sta 1300+93, 17' Rt
Sta 1301+67, 59' Lt
Sta 1301+81, 59' Lt

4 Adjust Manhole Frame & Cover Per MAG Std Det 422 — 1 Ea
Sta 1302+22, 45' Lt

5 Remove Conc Sidewalk — 1206 Sf
Sta 1301+28 to Sta 1301+87 Lt
Sta 1302+29 to Sta 1303+50 Lt

8 Remove Conc Single Curb — 345 Lf
Sta 1298+81, 52' to 72' Lt
Sta 1299+25, 53' to 72' Lt
Sta 1300+57 to 1300+66 Lt
Sta 1300+66, 45 to 71' Lt
Sta 1301+02, 45 to 71' Lt
Sta 1301+02 to Sta 1301+11 Lt
Sta 1301+50 to Sta 1301+88 Lt
Sta 1302+28 to Sta 1303+50 Lt

9 Remove Conc Driveway — 1213 Sf
Sta 1300+57 to Sta 1301+11 Lt

10 Remove Tree, Diameter > 12" — 9 Ea
Sta 1301+47, 43' Rt
Sta 1301+54, 42' Rt
Sta 1301+73, 40' Rt
Sta 1302+35, 41' Rt
Sta 1302+42, 41' Rt
Sta 1302+55, 41' Rt
Sta 1302+73, 45' Rt
Sta 1302+95, 45' Rt
Sta 1303+04, 58' Rt

11 Remove Existing Fence — 240 Lf
Sta 1301+43 to Sta 1303+50 Rt

12 Remove Conc Valley Gutter and Apron — 1122 Sf
Sta 1301+28 to Sta 1303+50 Lt

17 Remove Headwall — 6 Ea
Sta 1300+66, 48' Lt
Sta 1301+02, 47' Lt
Sta 1301+39, 46' Lt
Sta 1301+63, 40' Rt
Sta 1301+76, 83' Lt
Sta 1302+53, 83' Lt

19 Remove Conc Slab — 7005 Sf
Sta 1298+50 to Sta 1303+00

23 Remove Existing Metal Grate — 1Ea
Sta 1299+00, 45' Lt

50 Remove Conc Lined Ditch — 434 Lf
Sta 1298+50 to Sta 1302+84 Rt

60 Remove Pipe, 24", Backfill & Compact — 51 Lf
Sta 1301+63, 40' Rt to Sta 1301+80, 87' Rt

74 Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45 — 350 Lf

75 Install 18" Type III RGRCP Pipe and Maintenance Road Per Detail U5, See Sheet R45 — 22 Lf

76 Install Headwall Per MAG Det 501-1 & 501-2 — 2 Ea
Sta 1301+55.1', 87' Rt
Sta 1301+40.98', 115' Rt

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil) 38007 ROBERT LYONS Date Signed 6.15.18 ARIZONA, U.S.A. Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1298+50 to Sta 1303+50

SHEET R22 OF R45

TRACS NO. _____

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

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

Plot Time: 1:29:30pm
Plot Date: 6/15/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R40.dwg

SEC 11
T1N-R1E

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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	281	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1 Remove Conc C&G — 415 Lf
Sta 1305+02 to Sta 1305+46 Lt
Sta 1306+65 to Sta 1308+50 Lt
Sta 20+78 to Sta 21+27 Lt
Sta 20+89 to Sta 21+27 Rt

2 Relocate Fire Hydrant
Per Det U2A, See Sht U06 — 1 Ea

3 Adjust Water Valve to Grade per COP Std Det P1391 & 1391-1 — 2 Ea
Sta 1305+97, 76' Lt
Sta 1306+00, 62' Lt

4 Adjust Manhole Frame & Cover
Per MAG Std Det 422 — 1 Ea
Sta 1306+17, 46' Lt

5 Remove Conc Sidewalk and Ramps — 2753 Sf
Sta 1303+50 to Sta 1305+84 Lt
Sta 1306+25 to Sta 1308+50 Lt
Sta 20+89 to Sta 21+27 Rt

8 Remove Conc Single Curb — 277 Lf
Sta 1303+50 to Sta 1305+02 Lt
Sta 1305+46 to Sta 1305+85 Lt
Sta 1306+24 to Sta 1306+65 Lt

10 Remove Tree, Diameter > 12" — 4 Ea
Sta 1303+72, 51' Rt
Sta 1304+04, 46' Rt
Sta 1304+14, 46' Rt
Sta 1304+59, 47' Rt

11 Remove Existing Fence — 32 Lf
Sta 1303+50 to Sta 1303+71, 52' to 63' Rt

12 Remove Conc Valley Gutter and Apron — 1880 Sf
Sta 1303+50 to Sta 1305+02 Lt
Sta 1305+46 to Sta 1306+65 Lt

17 Remove Headwall
Sta 1304+87, 35' Rt — 1 Ea

19 Remove Conc Slab
Sta 1303+50 to Sta 1308+50 — 6172 Sf

50 Remove Conc Lined Ditch — 363 Lf
Sta 1304+87 to Sta 1308+50 Rt

△ REMOVAL/RELOCATE BY OTHERS △

△11 Relocate Existing Southwest Gas Facility by Southwest Gas

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer — Certificate No. 38007 — ROBERT LYONS — Date Signed 6/15/18 — ARIZONA, USA — Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1303+50 to Sta 1308+50

SHEET R23 OF R45

TRACS NO. _____

8100 West Buckeye LLC
104-13-520

D22592 UB II
(New WinCup-AZ) LLC
104-15-026-A

CH Realty VII-WPC I
Phoenix West 79th LLC
104-32-009-A

CH Realty VII-WPC I
Phoenix West 79th LLC
104-32-011-A

CH Realty VII-WPC I
Phoenix West 79th LLC
104-32-006-C

SEC 14
T1N-R1E

CITY OF TOLLESON
MARICOPA COUNTY

MC 85/BUCKEYE ROAD

MARICOPA COUNTY
CITY OF PHOENIX

MATCH LINE STA 1303+50 (SEE SHT R22)

MATCH LINE STA 1308+50 (SEE SHT R24)

80th Ave

1304+00 1305+00 1306+00 1307+00 1308+00

21+27.00, 19.42' Lt

21+27.00, 17.49' Rt

Sawcut

Exist R/W

Exist ITS
Protect in Place

See ITS Plans
For Relocation

Exist Public
Utility Esmt

CENTURYLINK

Remove
Asphalt

+20.66, 62.36' Lt

New R/W

Ton = Unk

New TCE

22' TCE

10' TCE

Exist Public
Utility Esmt

City of Tolleson

SMH
Rim = 1012.49
Inv 1002.89 (N)
Inv 1002.49 (E,W)

Exist EP

Section Line

MC 85 Const ℄

City of Phoenix

Level 3

City Limits
Exist R/W

Remove Asphalt

New R/W

8' PUE

35' TCE

New TCE

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS
BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

Plot Time: 10:25:48am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Utilities\AZE1019_R41.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
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7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

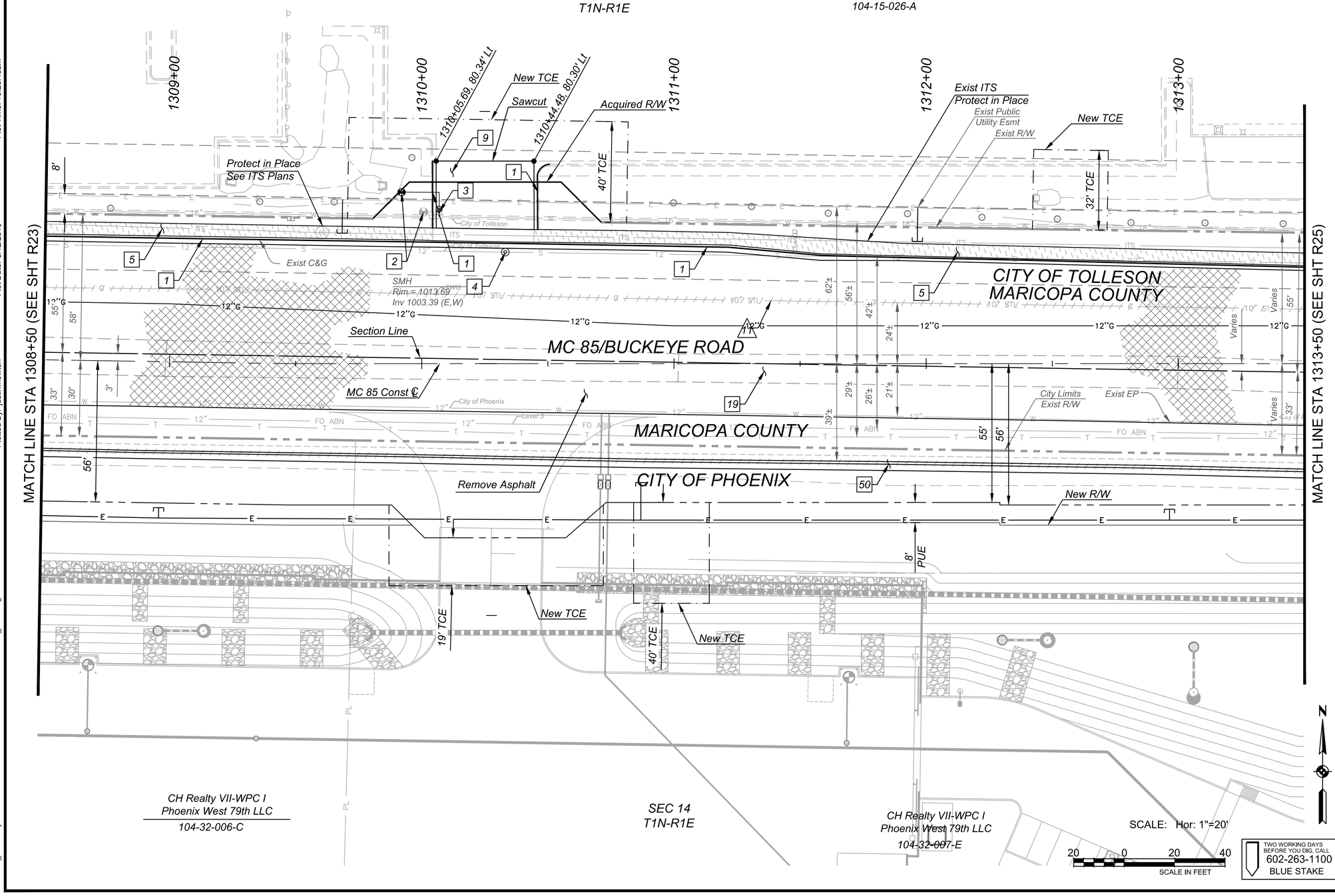
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	282	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 1308+50 to Sta 1313+50 Lt Sta 1310+04, 54' to 80' Sta 1310+46, 53' to 79'	554 Lf
2	Relocate Fire Hydrant Per Det U2A and Per COP Det P1360	1 Ea
3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 1310+07, 60' Lt	1 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 Sta 1310+33, 44' Lt	1 Ea
5	Remove Conc Sidewalk and Ramps Sta 1308+50 to Sta 1313+50 Lt	2538 Sf
9	Remove Conc Driveway Sta 1310+06 to Sta 1310+45 Lt	1039 Sf
19	Remove Conc Slab Sta 1308+50 to Sta 1313+50	6343 Sf
50	Remove Conc Lined Ditch Sta 1308+50 to 1313+50 Rt	500 Lf

△ REMOVAL/RELOCATE BY OTHERS △

1	Relocate Existing Southwest Gas Facility by Southwest Gas



TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
CERTIFICATE NO.
38007
ROBERT
LYONS
Date Signed 6/15/18
ARIZONA, U.S.A.
Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1308+50 to Sta 1313+50

SHEET R24 OF R45

TRACS NO. _____

Plot Time: 10:26:20am

Plot Date: 6/12/2018

Plotted By: justin.newton

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R42.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	283	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1 *Remove Conc C&G* — 204 Lf
Sta 1313+50 to Sta 1314+01 Lt
Sta 1314+37, 67' to 88' Lt
Sta 1314+77, 66' to 88' Lt

3 *Adjust Water Valve to Grade* — 5 Ea
Per COP Std Det P1391 & 1391-1
Sta 1314+08, 25' Rt
Sta 1314+41, 48' Lt
Sta 1314+48, 51' Lt
Sta 1314+51, 70' Lt
Sta 1314+62, 26' Rt

4 *Adjust Manhole Frame & Cover* — 4 Ea
Per MAG Std Det 422
Sta 1313+63, 12' Rt
Sta 1314+43, 39' Lt
Sta 1314+68, 45' Lt
Sta 1315+17, 58' Lt

5 *Remove Conc Sidewalk* — 1141 Sf
Sta 1313+50 to Sta 1314+36 Lt
Sta 1314+78 to Sta 1315+17 Lt
Sta 1314+36, 66' to 88' Lt
Sta 1314+78, 66' to 84' Lt

8 *Remove Conc Single Curb* — 72 Lf
Sta 1314+01 to 1314+37 Lt

12 *Remove Conc Valley Gutter and Apron* — 473 Sf
Sta 1314+01 to Sta 1315+17 Lt

19 *Remove Conc Slab* — 6414 Sf
Sta 1313+50 to Sta 1318+50

50 *Remove Conc Lined Ditch* — 296 Lf
Sta 1313+50 to Sta 1314+36 Rt
Sta 1315+00 to Sta 1317+06 Rt

60 *Remove Pipe, 24", Backfill & Compact* — 131 Lf
Sta 1314+50, 47' Rt to Sta 1314+71, 83' Lt

74 *Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45* — 223 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△8 *Relocate Existing CenturyLink Facility by CenturyLink*

△11 *Relocate Existing Southwest Gas Facility by Southwest Gas*

NO.	REVISION	BY	DATE
△			
△			
△			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

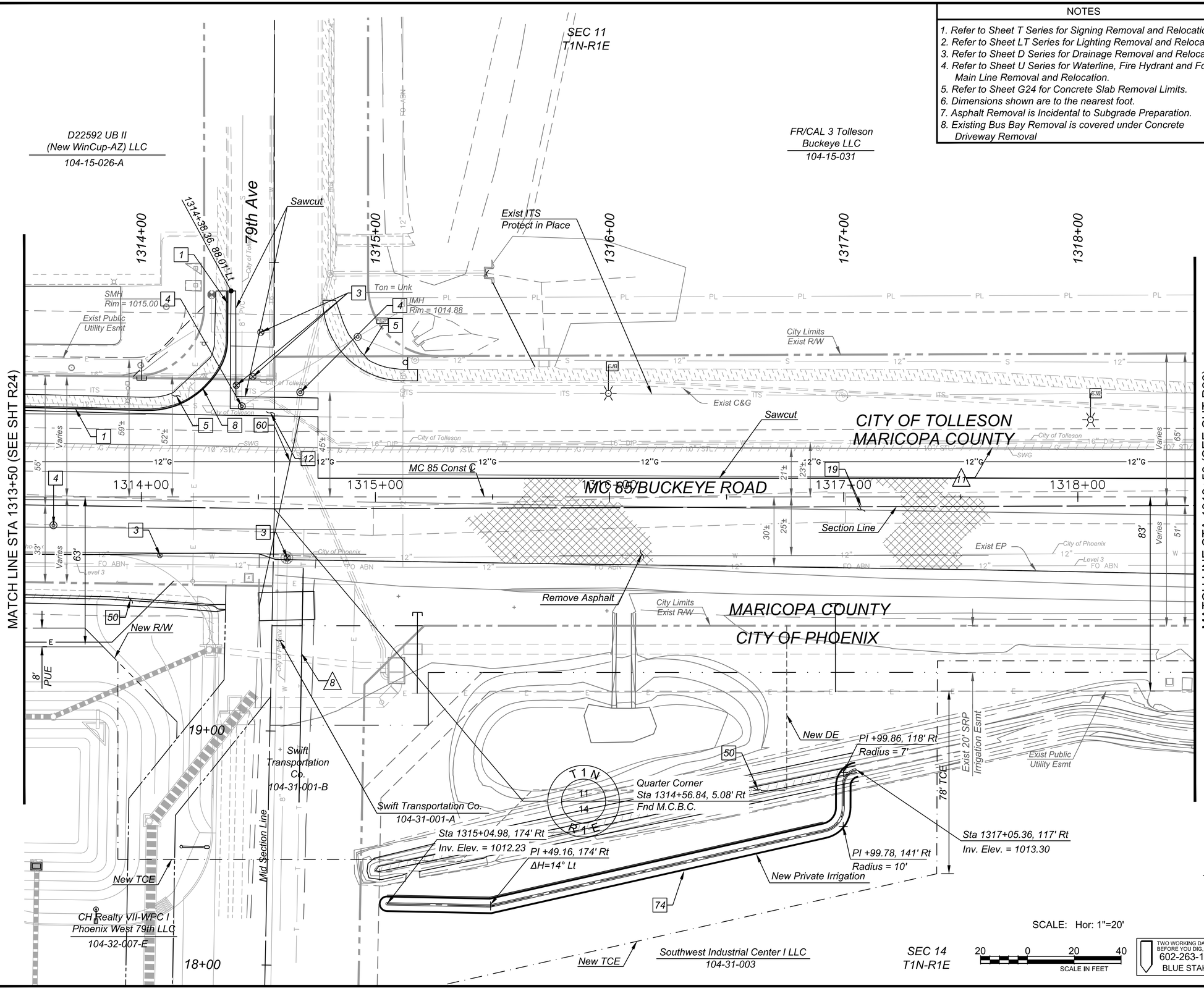
Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2020

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1313+50 to Sta 1318+50

SHEET R25 OF R45

TRACS NO. _____



Plot Time: 10:26:48am

Plot Date: 6/12/2018

Plotted By: justin.newton

K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Utilities\AZE1019_R43.dwg

MATCH LINE STA 1318+50 (SEE SHT R25)

SEC 11
T1N-R1E

FR/CAL 3 Tolleson
Buckeye LLC
104-15-031

1319+00 1320+00 1321+00 1322+00 1323+00

Exist ITS
Protect in Place

Exist R/W

CITY OF TOLLESON
MARICOPA COUNTY

Exist C&G

Sawcut

MC 85 Const ℄

MC 85/BUCKEYE ROAD

Section Line

19

Exist EP

Remove Asphalt

MARICOPA COUNTY
CITY OF PHOENIX

City Limits
Exist R/W

50

PI +67.52, 102' Rt
Radius = 7'

PI +91.52, 100' Rt
Radius = 7'

43' DE

74

Exist Public
Utility Esmt

Exist 20' SRP
Irrigation Esmt

Sta 1320+53.04, 102' Rt
Inv. Elev. = 1014.29

New DE

Sta 1323+05.99, 100' Rt
Inv. Elev. = 1014.92

Southwest Industrial Center I LLC
104-31-003

PI +67.32, 144' Rt
Radius = 30'

PI +91.42, 145' Rt
Radius = 30'

30'

52' TCE

New Private Irrigation

New TCE

SEC 14
T1N-R1E

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS
BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	284	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

19	Remove Conc Slab Sta 1318+50 to Sta 1322+85	5945 Sf
50	Remove SRP Conc Lined Ditch Sta 1320+53 to Sta 1323+06 Rt	253 Lf
74	Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45	308 Lf

△ REMOVAL/RELOCATE BY OTHERS △

11	Relocate Existing Southwest Gas Facility by Southwest Gas

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
CERTIFICATE NO.
38007
ROBERT
LYONS
Date Signed 6.15.18
ARIZONA, U.S.A.
Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 1318+50 to Sta 1323+50

SHEET R26 OF R45

TRACS NO. _____

Plot Time: 10:27:14am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Caddd03-Sheets\Utilities\AZE1019_R44.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

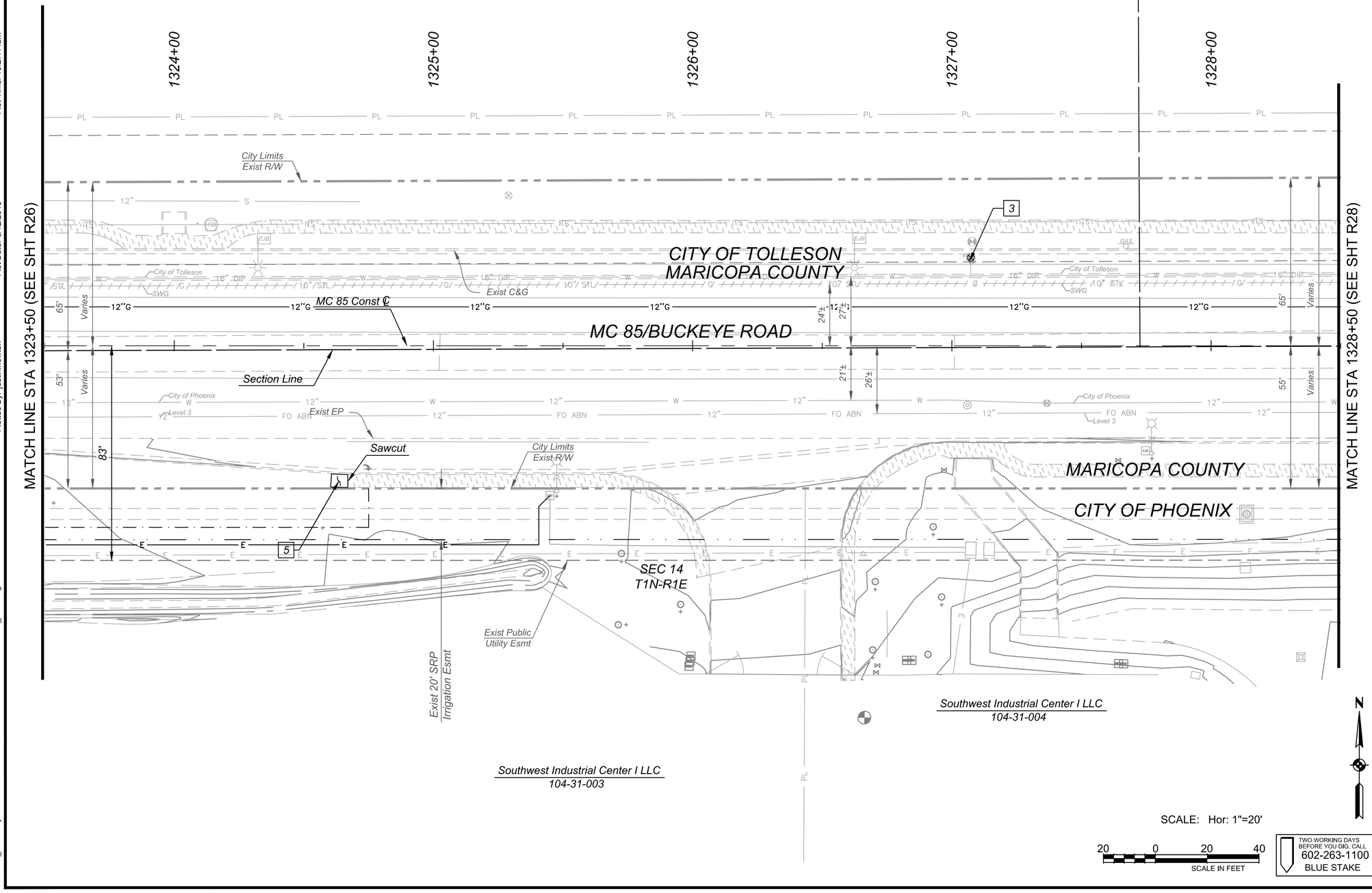
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	285	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

3 *Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 1327+08, 33' Lt* — 1 Ea

5 *Remove Conc Sidewalk Sta 1324+61 to Sta 1324+67 Rt* — 33 Sf

△ REMOVAL/RELOCATE BY OTHERS △



SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

REMOVAL AND RELOCATION SHEET

SHEET R27 OF R45

TRACS NO. _____

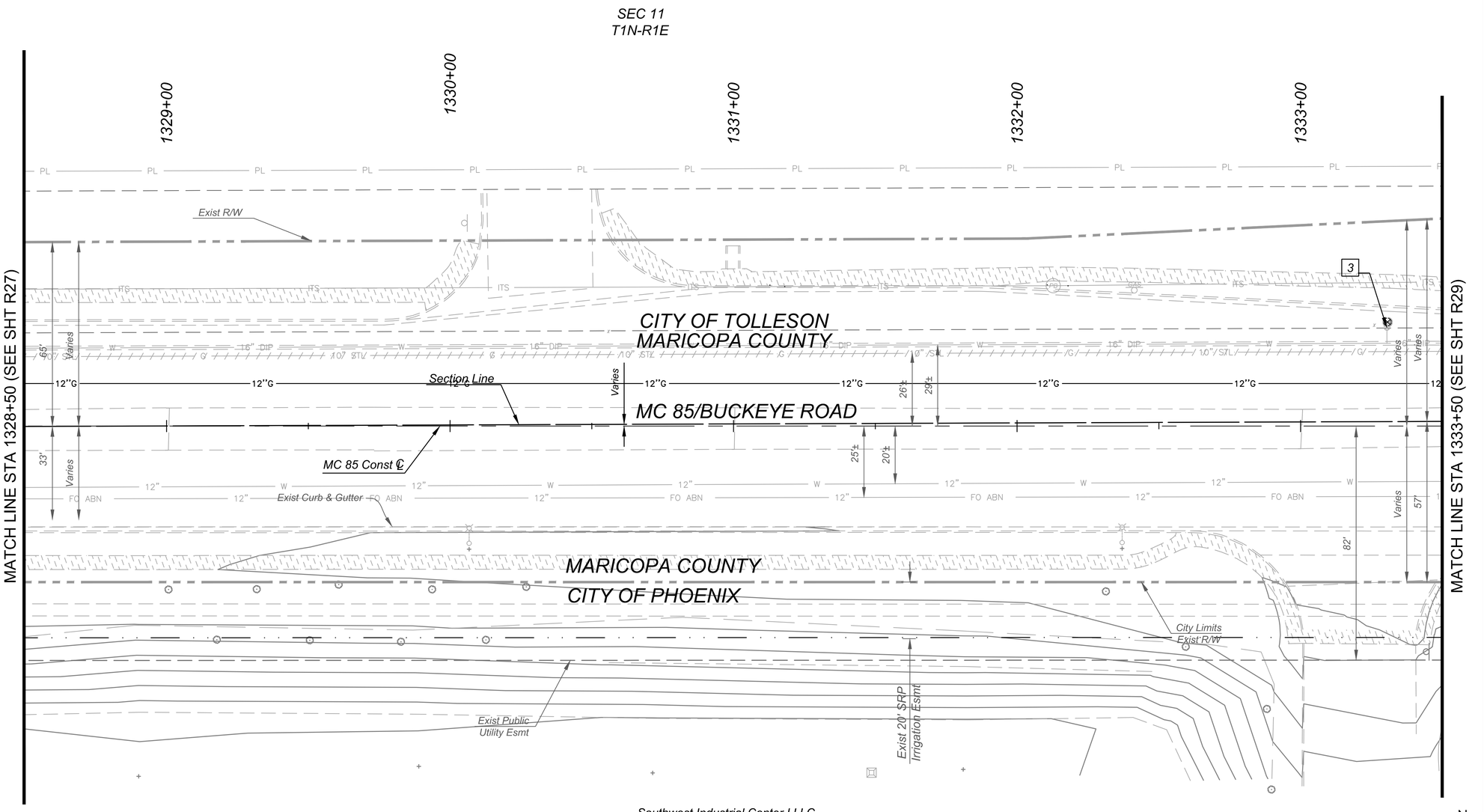
NOTES
1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	286	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 1333+30.44, 35.79' Lt	1 Ea

△ REMOVAL/RELOCATE BY OTHERS △



N

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

REMOVAL AND RELOCATION SHEET

SHEET R28 OF R45

TRACS NO. _____

Plot Time: 10:27:40am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R45.dwg

Plot Time: 10:28:13am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R46.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	287	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

3 *Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1* — 3 Ea
Sta 1339+18.92', 20.12' Rt
Sta 1339+43.61', 19.32' Rt
Sta 1339+88.91'+23.24' LT

4 *Adjust Manhole Frame & Cover Per MAG Std Det 422 & P1430* — 1 Ea
Sta 1339+98.04, 18.91 RT

△ REMOVAL/RELOCATE BY OTHERS △

SEC 11
T1N-R1E

FR/CAL 3 Tolleson Buckeye LLC
104-15-031

1334+00 1335+00 1339+00 521+00 1340+00 1341+00

CITY OF TOLLESON
MARICOPA COUNTY

Exist ITS
Protect in Place

Exist EP

MC 85/BUCKEYE ROAD

MC 85 Const ℄

75th AVE

MATCH LINE STA 1333+50 (SEE SHT R28)

MARICOPA COUNTY
CITY OF PHOENIX

City Limits
Exist R/W

Exist Public Utility Esmt

Exist 20' SRP Irrigation Esmt

519+00

Section Line

Southwest Industrial Center I LLC
104-31-004

SEC 14
T1N-R1E

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

N

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, USA
Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

REMOVAL AND RELOCATION SHEET

SHEET R29 OF R45

TRACS NO. _____

Plot Time: 10:28:46am
Plot Date: 6/12/2018
Plotted By: justin.newton
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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	288	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

- 3 — Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 — 1 Ea
  Sta 301+49, 12' Rt
- 9 — Remove Conc Driveway — 946 Sf
  Sta 302+94 to Sta 303+50 Lt
- 17 — Remove Headwall — 2 Ea
  Sta 303+19, 26' Lt
  Sta 303+33, 51' Lt
- 50 — Remove SRP Conc Lined Ditch — 379 Lf
  Sta 299+40 to 303+19 Lt
  Sta 303+33, 49' Lt to 80' Lt
- 57 — Remove Irrigation Manhole — 1 Ea
  Sta 303+34, 38' Lt
- 61 — Remove Pipe, 30" Backfill & Compact — 56 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
- 75 — Install 18" Type III RGRCP Pipe and Maintenance Road Per Detail U5, See Sheet R45 — 12 Lf
- 76 — Install Headwall Per MAG Det 501-1 & 501-2 — 1 Ea
  Sta 303+39, 96' Lt

△ REMOVAL/RELOCATE BY OTHERS △

- △3 Adjust Existing Southwest Gas Facility by Southwest Gas
- △13 New SRPI Facilities by Contractor See Attached SRPI Plans

CITY OF PHOENIX

SEC 16
T1N-R1E

Buckeye 65C LLLP
Buckeye 65A LLLP
101-13-002-B

20' SRP
Irrigation Esmt

Headwall Transition per Detail U5 See Sheet R45

City of Tolleson
101-13-001-A

Sta 303+34.46, 95.18' Lt
Inv. Elev. = 996.90

PIMA STREET

New TCE

Sawcut

50' TCE

303+41.34, 54.19' Lt

New R/W

Exist R/W

Remove Asphalt

301+42.00, 7.62' Lt

Exist EP

91ST AVENUE

MATCH LINE STA 298+50 (SEE BOTTOM LEFT)

MATCH LINE STA 303+50 (SEE SHTR31)

Varies

33'

22'

2'

Section Line & 91st Ave Const ℄

Sawcut

Exist R/W

Exist EP

Phoenix Logistics Center LLC
101-12-001-L

Phoenix Logistics Center LLC
101-12-001-G

Phoenix Logistics Center LLC
101-12-001-K

SEC 15
T1N-R1E

CITY OF PHOENIX

+00, 7.00' Lt

+50, 7.43' Lt

+00, 7.25' Lt

+50, 6.98' Lt

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2020

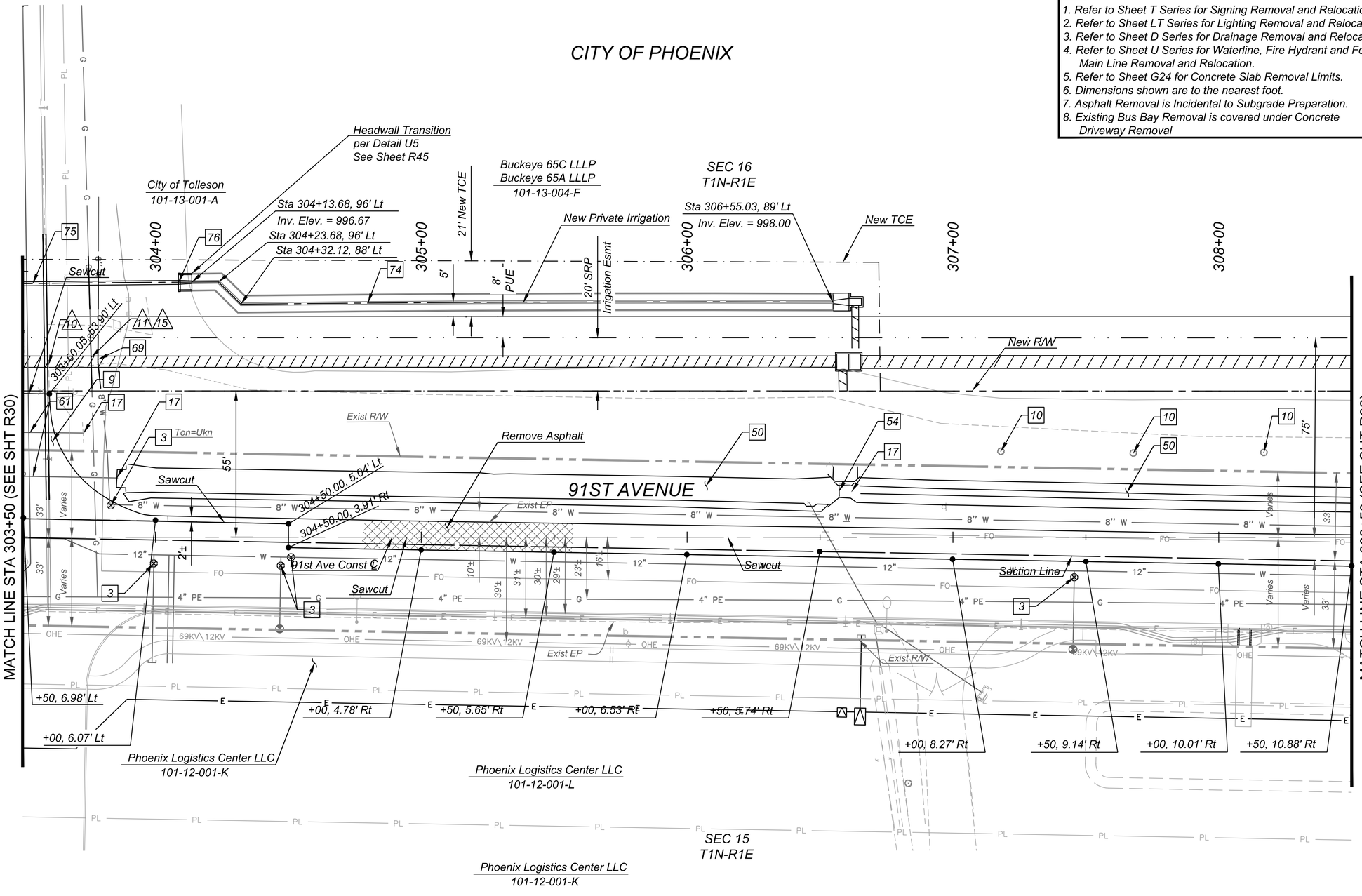
	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

91st AVE REMOVAL AND RELOCATION SHEET
Sta 298+50 to Sta 303+50

SHEET R30 OF R45

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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	289	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 303+83, 12' Lt Sta 303+99, 10' Rt Sta 304+47, 11' Rt Sta 304+51, 8' Rt Sta 307+46, 15' Rt	5 Ea
9	Remove Conc Driveway Sta 303+50 to Sta 304+05 Lt	956 Sf
10	Remove Tree, Diameter > 12" Sta 307+18, 32' Lt Sta 307+68, 32' Lt Sta 308+17, 32' Lt	3 Ea
17	Remove Headwall Sta 303+73, 39' Lt Sta 303+86, 22' Lt Sta 306+59, 19' Lt	3 Ea
50	Remove SRP Conc Lined Ditch Sta 303+73 to Sta 308+50 Lt	464 Lf
54	Remove Irrigation Gate Structure Sta 306+57, 18' Lt	1 Ea
59	Remove Pipe, 18", Backfill & Compact Sta 306+46 to Sta 306+57 Rt	24 Lf
61	Remove Pipe, 30" Backfill & Compact Sta 303+50 to Sta 303+73 Lt Sta 303+50 to Sta 303+86 Lt	111 Lf
69	Vert Realign 8" Waterline MAG Det 370 & Det U1 Sta 303+78.38, 65.76' Lt	1 Ea
74	Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45	240 Lf
75	Install 18" Type III RGRCP Pipe and Maintenance Road Per Detail U5, See Sheet R45	61 Lf
76	Install Headwall Per MAG Det 501-1 & 501-2 Sta 304+11 Lt	1 Ea

△ REMOVAL/RELOCATE BY OTHERS △

10	Relocate Existing CenturyLink Facility by CenturyLink
11	Relocate Existing Southwest Gas Facility by Southwest Gas
15	Relocate Existing Cox Facility by Cox

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil)
CERTIFICATE NO.
38007
ROBERT
LYONS
Date Signed 6/15/18
ARIZONA, U.S.A.
Expires 09/30/2020

Kimley»Horn

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS
BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

91ST AVEREMOVAL AND RELOCATION SHEET
Sta 303+50 to Sta 308+50

SHEET
R31 0F R45

TRACS NO. _____

Plot Time: 10:29:16am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R61.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	290	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

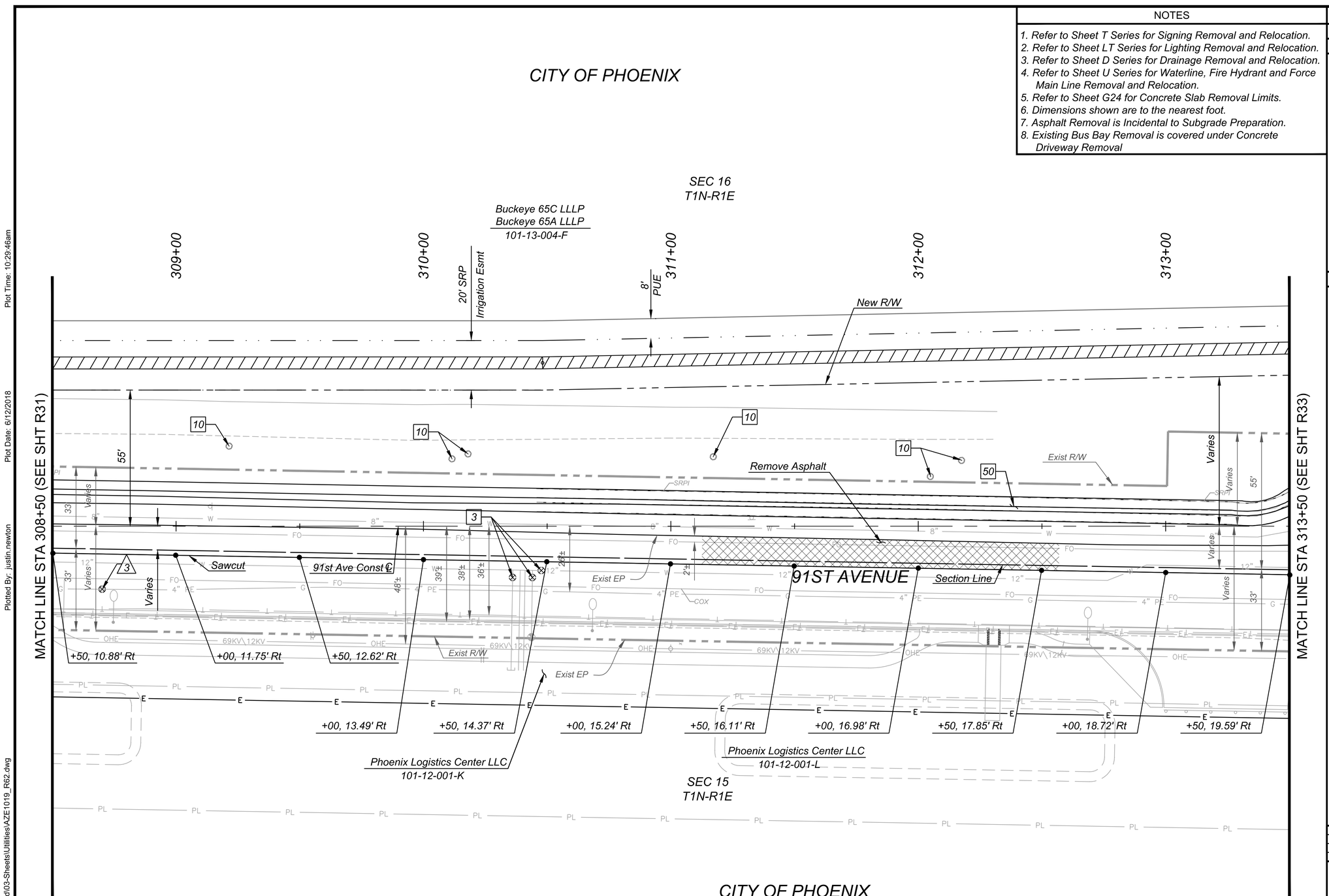
[3] *Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1* — 3 Ea
Sta 310+36, 21' Rt
Sta 310+44, 21' Rt
Sta 310+48, 18' Rt

[10] *Remove Tree, Diameter > 12"* — 6 Ea
Sta 309+21, 32' Lt
Sta 310+12, 27' Lt
Sta 310+18, 29' Lt
Sta 311+17, 28' Lt
Sta 312+05, 20' Lt
Sta 312+17, 27' Lt

[50] *Remove SRP Conc Lined Ditch* — 501 Lf
Sta 308+50 to Sta 313+50 Lt

△ REMOVAL/RELOCATE BY OTHERS △

△3 *Adjust Existing Southwest Gas Facility by Southwest Gas*



Phoenix Logistics Center LLC
101-12-001-K

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
△1			
△2			
△3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil)
CERTIFICATE NO.
38007
ROBERT
LYONS
Date Signed 6/15/18
ARIZONA, U.S.A.
Expires 09/30/2020

Kimley»Horn

91st AVE REMOVAL AND RELOCATION SHEET
Sta 308+50 to Sta 313+50

SHEET R32 OF R45

TRACS NO. _____

Plot Time: 10:29:46am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R62.dwg

Plot Time: 1:29:53pm

Plot Date: 6/15/2018

Plotted By: mark.flood

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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	291	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

3 *Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1* — 5 Ea
Sta 314+12, 20' Rt
Sta 314+20, 20' Rt
Sta 316+15, 21' Rt
Sta 316+41, 20' Rt
Sta 316+45, 18' Rt

17 *Remove Headwall* — 1 Ea
Sta 313+88, 25' Lt

50 *Remove SRP Conc Lined Ditch* — 245 Lf
Sta 313+50 to Sta 313+88 Lt
Sta 316+46 to Sta 318+50 Lt

63 *Remove Pipe, 42" Backfill & Compact* — 462 Lf
Sta 313+88 to Sta 318+50 Lt

74 *Install Concrete Lined Ditch and Maintenance Road Per Detail U4, See Sheet R45* — 39 Lf

△ REMOVAL/RELOCATE BY OTHERS △

CITY OF PHOENIX

Buckeye 65C LLLP
Buckeye 65A LLLP
101-13-004-F

SEC 16
T1N-R1E

New DE · *314+00* · *72' DE* · *8' PUE* · *315+00* · *20' SRP* · *Irrigation Esmt* · *316+00* · *317+00* · *318+00* · *45' TCE* · *Ditch Curve Per Detail U7* · *See Sheet R45* · *New TCE* · *New DE* · *74* · *PI +07.04, 111' Lt* · *Radius = 24'* · *New R/W*

MATCH LINE STA 313+50 (SEE SHT R32)

MATCH LINE STA 318+50 (SEE SHT R09)

Exist R/W · *New R/W* · *50* · *17* · *63*

91ST AVENUE · *Remove Asphalt* · *91st Ave Const ℄* · *Exist EP* · *Exist R/W* · *Exist EP* · *Section Line* · *3*

+50, 19.59' Rt · *+00, 20.46' Rt* · *+50, 21.33' Rt* · *+00, 22.21' Rt* · *+45.18, 22.99' Rt* · *+44.95, 50.61' Rt*

New R/W · *New TCE*

Phoenix Logistics Center LLC
101-12-001-K

Phoenix Logistics Center LLC
101-12-001-L

Phoenix Logistics Center LLC
101-12-001-K

CITY OF PHOENIX

SEC 15
T1N-R1E

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) — 38007 — ROBERT LYONS — Date Signed 6/15/18 — ARIZONA, USA — Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

91ST AVEREMOVAL AND RELOCATION SHEET
Sta 313+50 to Sta 318+50

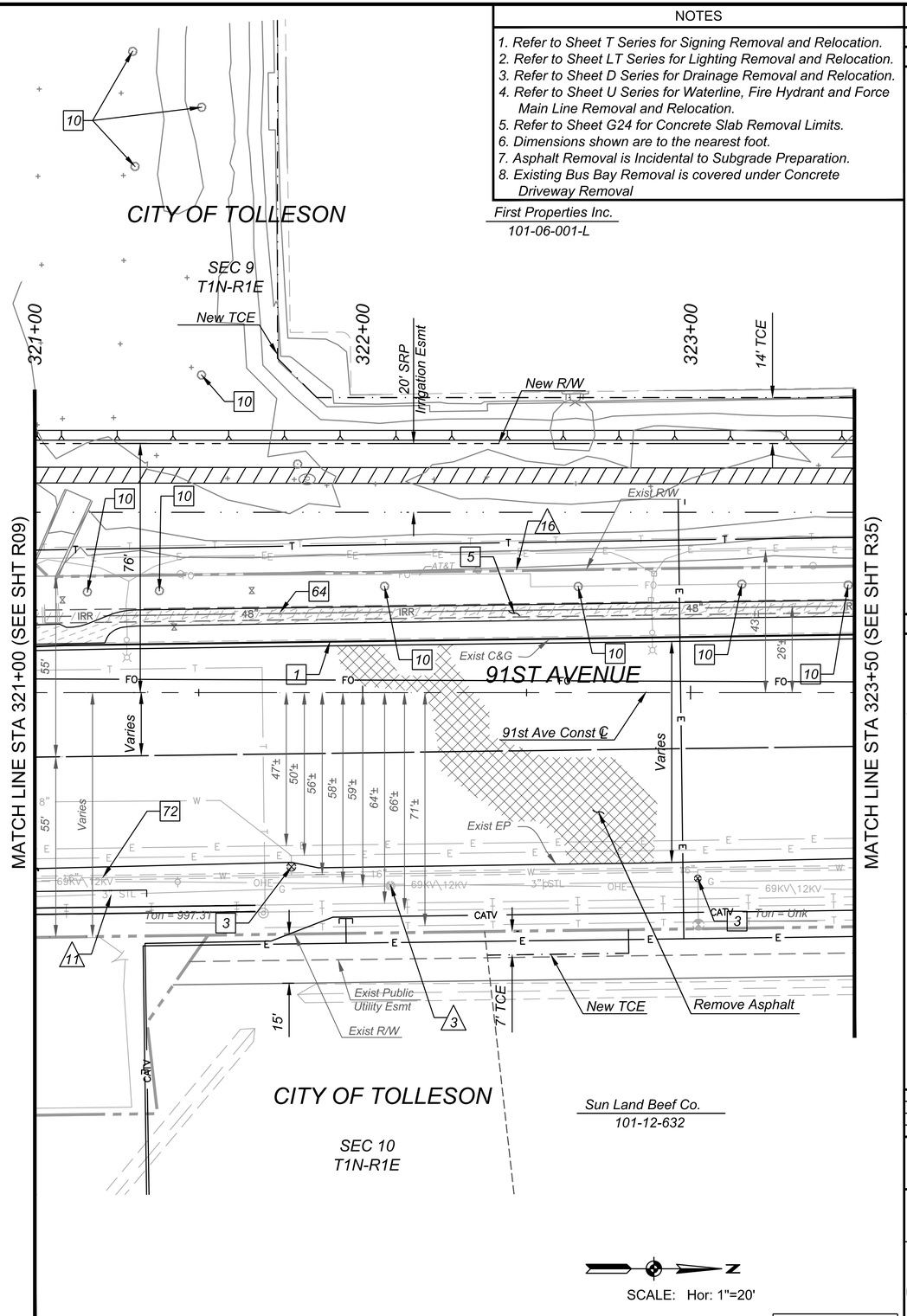
SHEET R33 OF R45

TRACS NO. _____

Plot Time: 10:30:47am
Plot Date: 6/12/2018
Plotted By: justin.newton
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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	292	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 321+00 to Sta 323+50 Lt	250 Lf
3	Adjust Water Valve to Grade Per COP Std Det P1391 & P1391-1 Sta 321+78, 53' Rt Sta 323+02, 57' Rt	2 Ea
5	Remove Conc Sidewalk Sta 321+00 to Sta 323+50 Lt	1245 Sf
10	Remove Tree, Diameter > 12" Sta 321+16, 31' Lt Sta 321+38, 31' Lt Sta 321+30, 195' Lt Sta 321+31, 160' Lt Sta 321+51, 97' Lt Sta 321+51, 178' Lt Sta 322+07, 32' Lt Sta 322+66, 32' Lt Sta 323+16, 33' Lt Sta 323+48, 33' Lt	10 Ea
64	Remove Pipe 48", Backfill and Compact Sta 321+00 to Sta 323+50 Lt	250 Lf
72	Vert. Realign 16" Waterline MAG Det. 370 & Det U1 Sta 321+36.62, 56.22' Rt	1 Ea

△ REMOVAL/RELOCATE BY OTHERS △

△3 Adjust Existing Southwest Gas Facility by Southwest Gas

△11 Relocate Existing Southwest Gas Facility by Southwest Gas

△16 Relocate Existing Fence by Others

NO.	REVISION	BY	DATE
4			
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
38007
ROBERT LYONS
CERTIFICATE NO.
Date Signed 6/15/18
ARIZONA, U.S.A.
Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

91st AVE REMOVAL AND RELOCATION SHEET
Sta 321+00 to Sta 323+50

SHEET R34 OF R45

TRACS NO. _____

Plot Time: 1:30:13pm
Plot Date: 6/15/2018
Plotted By: mark.flood
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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	293	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 323+50 to Sta 326+19 Lt Sta 327+02 to Sta 328+50 Lt	417 Lf
3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 325+91, 51' Rt Sta 325+95, 53' Rt	2 Ea
5	Remove Conc Sidewalk and Ramps Sta 323+50 to Sta 326+34 Lt Sta 326+78 to Sta 328+50 Lt	2414 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	131 Lf
9	Remove Conc Driveway Sta 326+19 to Sta 327+02 Lt	920 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
64	Remove Pipe 48", Backfill and Compact Sta 323+50 to Sta 328+50 Lt	500 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△2 Relocate Existing SRPP Facility by SRPP (Distribution)

△10 Relocate Existing CenturyLink Facility by CenturyLink

△16 Relocate Existing Fence by Others

△17 Relocate Existing Gate by Others

CITY OF TOLLESON

First Properties Inc.
101-06-001-L

SEC 9
T1N-R1E

14' TCE
20' SRP Irrigation Esmt
324+00
325+00
326+00
327+00
328+00
+00, 6.00' Lt
326+34.61, 84.98' Lt
326+71.68, 85.03' Lt
326+70.14, 78.37' Lt
New R/W
New TCE
Sawcut
Remove Asphalt
Exist R/W
325+49.10, 6.00' Lt
Exist C&G
91ST AVENUE
Exist EP
325+48.91, 43.58' Rt
Tan = Unk
Tan = 998.55
Section Line
91st Ave Const ℄
Exist Public Utility Esmt
MATCH LINE STA 323+50 (SEE SHT R34)
MATCH LINE STA 328+50 (SEE SHT R36)
Varies
55'
76'
8'
48"
3" STL
16"
CATV
OHE
FO
AT&T
IRR
E
T
G
W
+50, 6.00' Lt
+00, 6.00' Lt
+50, 6.00' Lt
+00, 6.00' Lt
+50, 6.00' Lt
P = 1004.22 ±
+00, 43.58' Rt
+50, 43.58' Rt
+00, 43.58' Rt
+50, 43.58' Rt
+00, 43.58' Rt
+50, 43.58' Rt

Sun Land Beef Co.
101-12-632

SEC 10
T1N-R1E

CITY OF TOLLESON

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) 38007 ROBERT LYONS ARIZONA, USA. Date Signed: 6.15.18 Expires: 09/30/2020

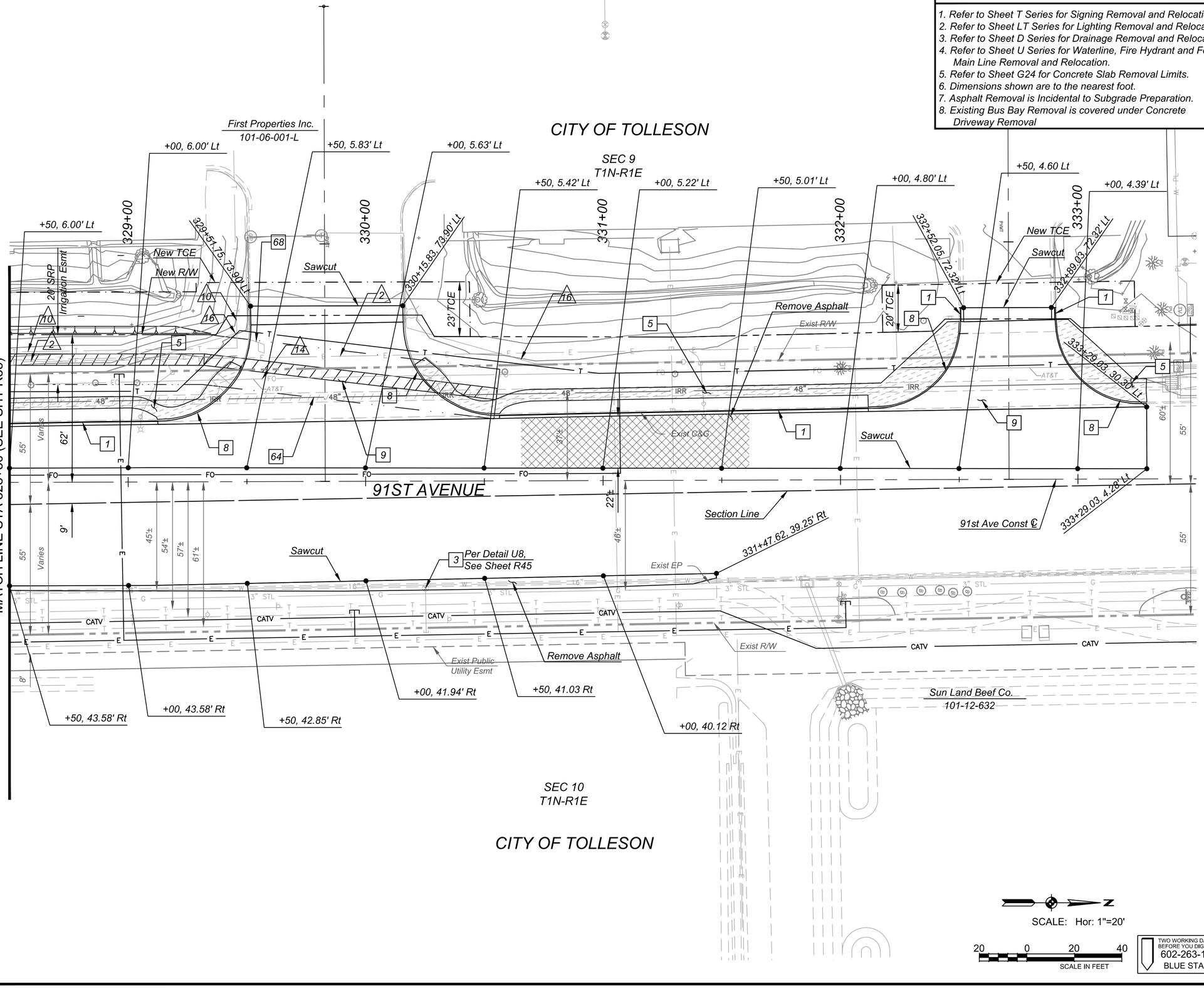
	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

91ST AVEREMOVAL AND RELOCATION SHEET
Sta 323+50 to Sta 328+50

SHEET R35 OF R45

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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	294	303	

☐ 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	231 Lf
3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 330+25, 45' 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	2729 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	238 Lf
9	Remove Conc Driveway Sta 329+12 to Sta 330+56 Lt Sta 332+12 to Sta 333+29 Lt	5535 Sf
64	Remove Pipe 48", Backfill and Compact Sta 328+50 to Sta 333+37 Lt	205 Lf
68	Remove Existing Mail Box Sta 329+54, 59' Lt	1 Ea

△ REMOVAL/RELOCATE BY OTHERS △

△2 Relocate Existing Power Facility by SRPP (Distribution)

△10 Relocate Existing CenturyLink Facility by CenturyLink

△14 Relocate Existing AT&T Facility by AT&T

△16 Relocate Existing Fence by Others

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
△1			
△2			
△3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, USA. Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

91st AVE REMOVAL AND RELOCATION SHEET
Sta 328+50 to Sta 332+49.77

SHEET R36 OF R45

TRACS NO. _____

Plot Time: 10:31:44am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R66.dwg

Plot Time: 10:32:11am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R66B.dwg

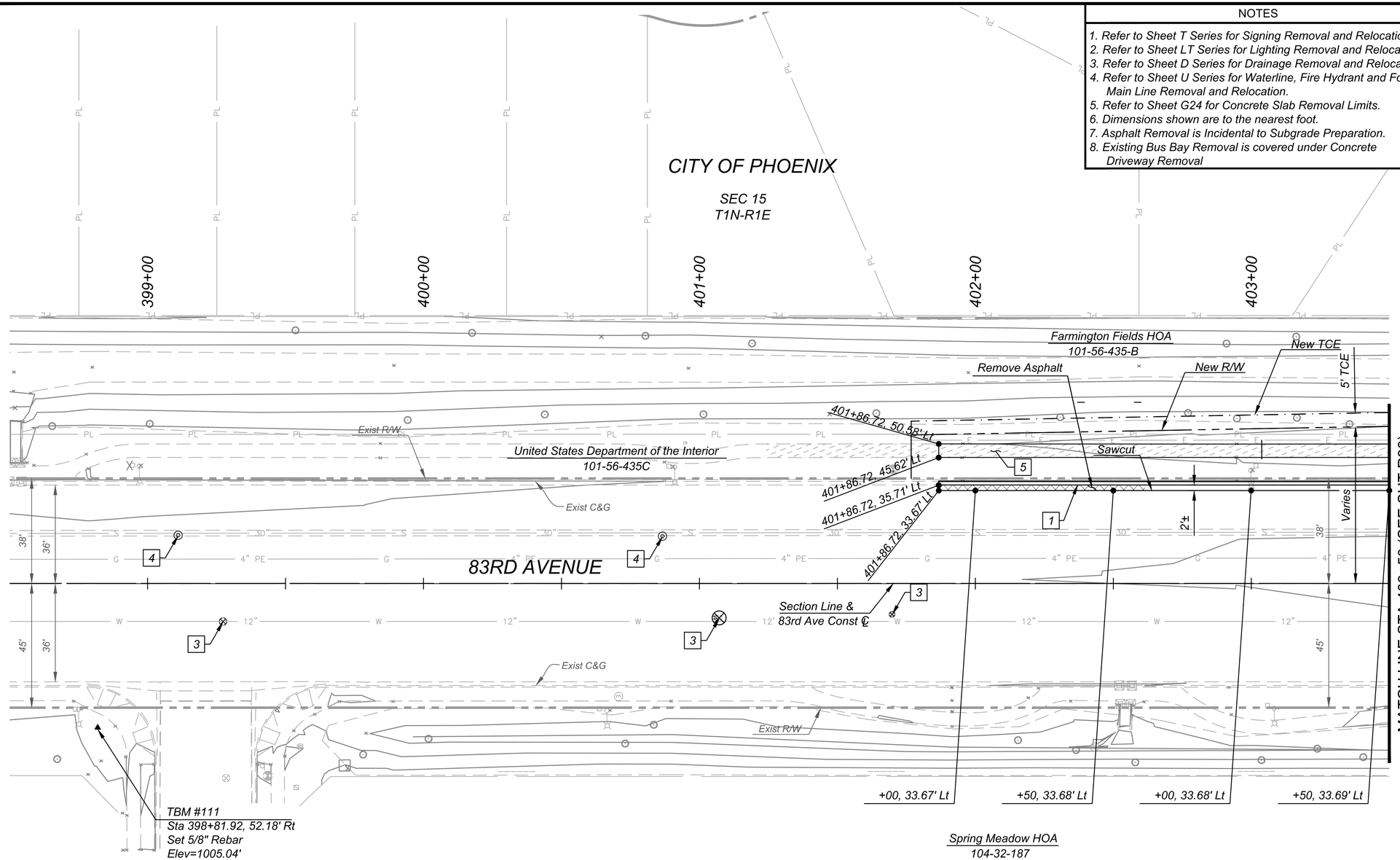
NOTES

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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	295	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 401+87 to Sta 403+50 Lt	163 Lf
3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 399+27, 14' Rt Sta 401+07, 13' Rt Sta 401+70, 12' Rt	3 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 & P1430 Sta 399+11, 18' Lt Sta 400+87, 17' Lt	2 Ea
5	Remove Conc Sidewalk Sta 401+87 to Sta 403+50 Lt	792 Sf



SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) — Robert Lyons — 38007 — Date Signed 6/15/18 — ARIZONA, U.S.A. — Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

83RD AVEREMOVAL AND RELOCATION SHEET
Sta 398+50 to Sta 403+50

SHEET R37 OF R45

TRACS NO. _____

Plot Time: 10:32:37am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R67.dwg

NOTES

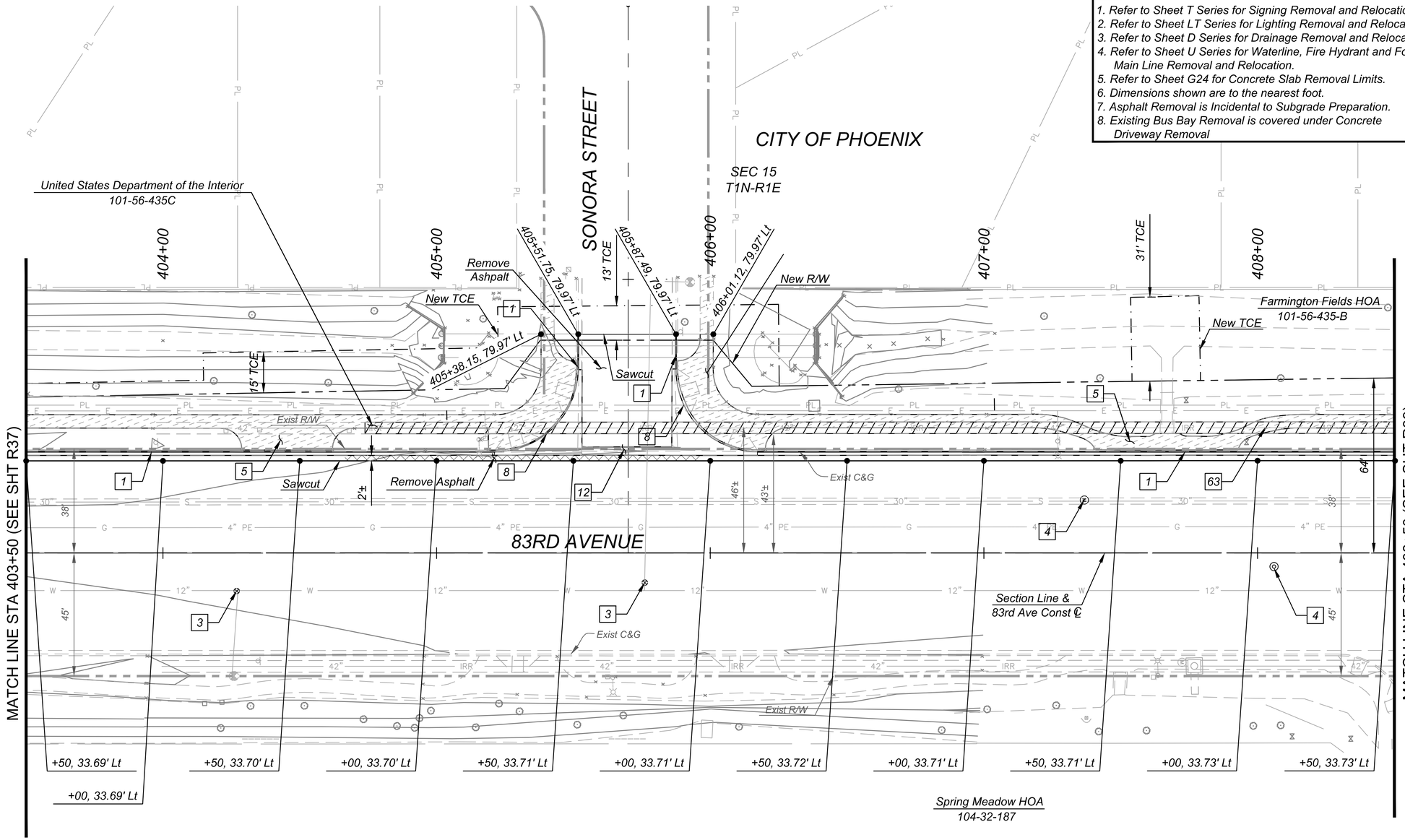
1. Refer to Sheet T Series for Signing Removal and Relocation.
2. Refer to Sheet LT Series for Lighting Removal and Relocation.
3. Refer to Sheet D Series for Drainage Removal and Relocation.
4. Refer to Sheet U Series for Waterline, Fire Hydrant and Force Main Line Removal and Relocation.
5. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	296	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 403+50 to Sta 405+21 Lt Sta 405+52, 67' to 80' Lt Sta 405+88, 67' to 80' Lt Sta 406+17 to Sta 408+50 Lt	446 Lf
3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 404+27, 14' Rt Sta 405+76, 11' Rt	2 Ea
4	Adjust Manhole Frame and Cover Per MAG Std Det 422 & P1430 Sta 407+37, 19' Lt Sta 408+06, 5' Rt	2 Ea
5	Remove Conc Sidewalk Sta 403+50 to Sta 405+51 Lt Sta 405+88 to Sta 408+50 Lt Sta 405+38, 70' to 80' Lt Sta 406+01, 70' to 80' Lt	3499 Sf
8	Remove Conc Single Curb Sta 405+21 to Sta 405+52 Lt Sta 405+88 to Sta 406+17 Lt	95 Lf
12	Remove Conc Valley Gutter Sta 405+21 to Sta 406+17 Lt	661 Sf
63	Remove Pipe, 42", Backfill & Compact Sta 404+74 to 408+50 Lt	376 Lf

△ REMOVAL/RELOCATE BY OTHERS △



SEC 14
T1N-R1E

CITY OF PHOENIX

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, USA. Expires 09/30/2020

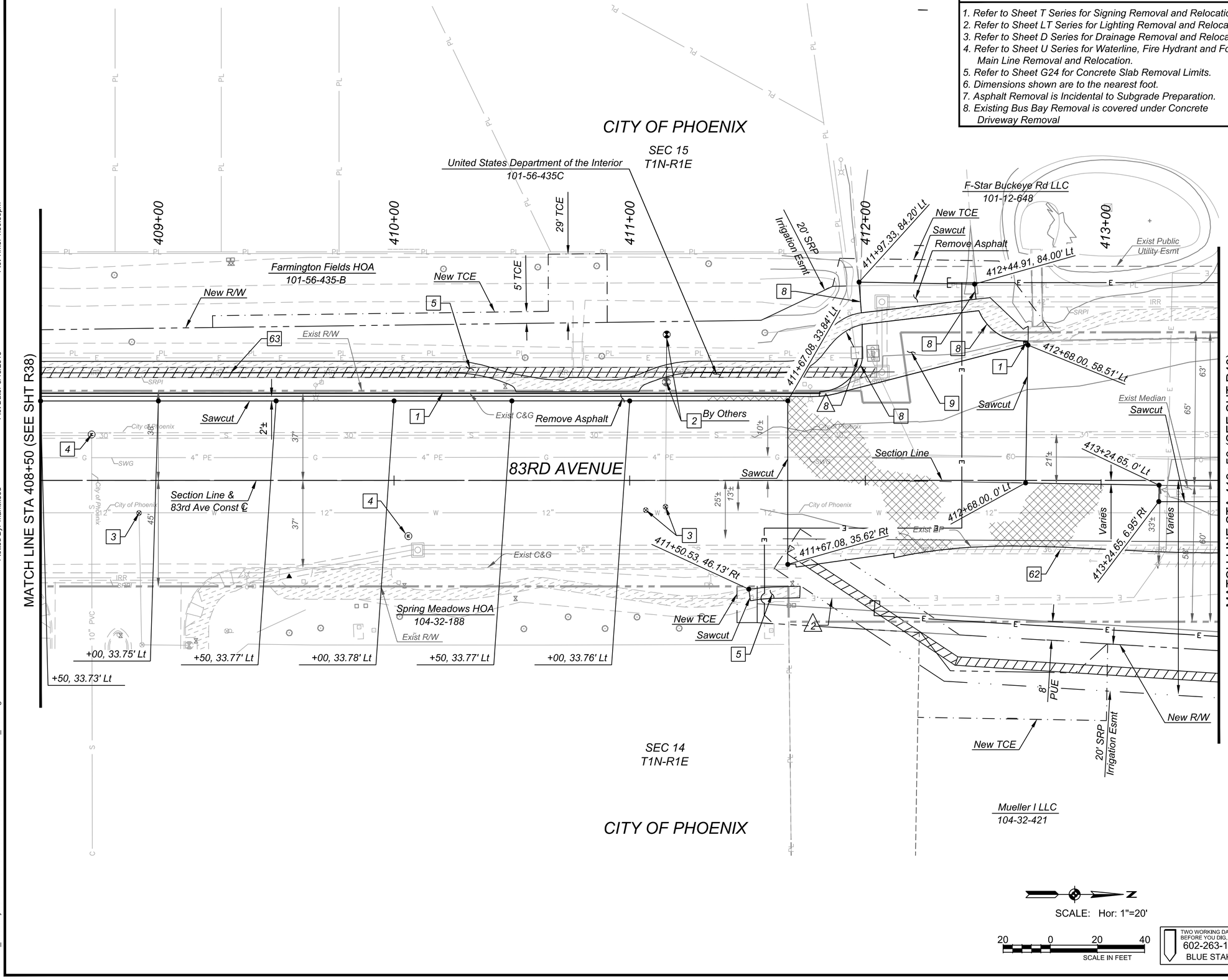
	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

83RD AVE REMOVAL AND RELOCATION SHEET
Sta 403+50 to Sta 408+50

SHEET R38 OF R45

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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	297	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 408+50 to Sta 411+81 Lt Sta 412+66 to Sta 412+68 Lt	333 Lf
2	Relocate Fire Hydrant Per Det U2B and Per COP Det P1360, P1361, and P1362	0 Ea
3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 408+92, 14' Rt Sta 411+07, 13' Rt Sta 411+15, 11' Rt	3 Ea
4	Adjust Manhole Frame and Cover Per MAG Std Det 422 & P1430 Sta 408+72, 20' Lt Sta 410+06, 24' Rt	2 Ea
5	Remove Conc Sidewalk Sta 408+50 to Sta 412+68 Lt Sta 411+51 to Sta 411+72 Rt	2344 Sf
8	Remove Conc Single Curb Sta 411+81 to Sta 411+99 Lt Sta 411+97, 71' to 84' Lt Sta 411+99, 52' to 66' Lt Sta 412+45, 78' to 85' Lt Sta 412+47 to Sta 412+66 Lt	84 Lf
9	Remove Conc Driveway Sta 411+80 to Sta 412+66 Lt	1360 Sf
62	Remove Pipe, 36" Backfill & Compact Sta 411+67 to Sta 413+50 Rt	182 Lf
63	Remove Pipe, 42" Backfill & Compact Sta 408+50 to Sta 412+10 Lt	354 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△1	Relocate Existing SRPP (Transmission) Facility by SRPP (Transmission)
△2	Relocate Existing SRPP (Distribution) Facility by SRPP (Distribution)
△8	Relocate Existing CenturyLink Facility, by CenturyLink

NO.	REVISION	BY	DATE
△3			
△2			
△1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer, Civil — 38007 — ROBERT LYONS — Date Signed 6.15.18 — ARIZONA, U.S.A. — Expires 09/30/2020

Kimley»Horn

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

83RD AVEREMOVAL AND RELOCATION SHEET
Sta 408+50 to Sta 413+50

SHEET R39 OF R45

TRACS NO. _____

Plot Time: 1:30:33pm
Plot Date: 6/15/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R68.dwg

Plot Time: 1:07:07pm
Plot Date: 6/15/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R69.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	298	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 418+15 to Sta 418+50 Lt	36 Lf
3	Adjust Water Valve to Grade Per COP Std Det P1391 & 1391-1 Sta 414+56, 23' Lt	1 Ea
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 & P1430 Sta 413+81, 23' Lt Sta 417+06, 25' Lt	2 Ea
5	Remove Conc Sidewalk Sta 418+15 to Sta 418+50 Lt	181 Sf
8	Remove Conc Single Curb Sta 418+15 to Sta 418+50 Lt	70 Lf
9	Remove Conc Driveway Sta 418+15 to Sta 418+50 Lt	361 Sf
10	Remove Tree, Diameter > 12" Sta 414+89, 34' Rt	1 Ea
11	Remove Existing Fence Sta 414+02.24 to Sta 414+20.20, 49.35 to 62.33 Rt	41 Lf
17	Remove Headwall Sta 416+94, 55' Rt	1 Ea
19	Remove Conc Slab Sta 418+15 to Sta 418+50 Lt	See Note 5
57	Remove Irrigation Manhole Sta 416+94, 24' Rt	1 Ea
59	Remove Pipe, 18" Backfill & Compact Sta 416+94 Rt	29 Lf
62	Remove Pipe, 36" Backfill & Compact Sta 413+50 to Sta 418+50 Lt	496 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△1 Relocate Existing SRPP (Transmission) Facility by SRPP (Transmission)

△2 Relocate Existing SRPP (Distribution) Facility by SRPP (Distribution)

NO.	REVISION	BY	DATE
△3			
△2			
△1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2020

Kimley»Horn

83RD AVE REMOVAL AND RELOCATION SHEET
Sta 413+50 to Sta 418+50

SHEET R40 OF R45

TRACS NO. _____

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

CITY OF PHOENIX

F-Star Buckeye Rd LLC 101-12-648

F-Star Buckeye Rd LLC 101-12-647

F-Star Buckeye Rd LLC 101-12-646

United States Department of the Interior 101-12-004W

414+00 415+00 416+00 417+00 418+00

SEC 15 T1N-R1E

Exist Public Utility Esmt

Exist R/W

SMH Rim = 1007.87 Inv = 994.37 (N,S)

SMH Rim = 1008.66 Inv = 997.36 (E) Inv = 994.66 (N,S)

Exist Median

Section Line

Remove Asphalt

Exist EP

Sawcut

83rd Ave Const ℄

83RD AVENUE

418+14.78, 63.35' Lt

418+14.78, 51.48' Lt

418+14.78, 6.31' Lt

MATCH LINE STA 413+50 (SEE SHT R39)

MATCH LINE STA 418+50 (SEE SHT R19)

Mueller I LLC 104-32-421

8' PUE

20' SRP Irrigation Esmt

38' TCE

SEC 14 T1N-R1E

New TCE

Mueller I LLC 104-32-013-E

New R/W

+00, 5.53' Rt

+50, 3.82' Rt

+00, 4.02' Lt

+50, 6.19' Lt

+00, 6.28' Lt

+50, 6.33' Lt

+00, 6.31' Lt

+50, 6.30' Lt

CITY OF PHOENIX

Plot Time: 10:33:57am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R70.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	299	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1 *Remove Conc C&G* — 511 Lf
Sta 421+00 to Sta 423+10 Lt
Sta 421+00 to Sta 423+50 Rt
Sta 422+85, 81' Lt to Sta 423+10, 61' Lt

2 *Relocate Fire Hydrant* — 1 Ea
Per Det U2B and per COP P1360
Sta 422+91, 62' Lt

3 *Adjust Water Valve to Grade Per* — 4 Ea
COP Std Det P1391 & 1391-1
Sta 421+05, 5' Rt
Sta 421+09, 6' Lt
Sta 421+18, 9' Rt
Sta 422+91, 53' Lt

4 *Adjust Manhole Frame & Cover Per* — 1 Ea
MAG Std Det 422 & P1430
Sta 421+18, 1' Rt

5 *Remove Conc Sidewalk and Ramp* — 1288 Sf
Sta 421+00 to Sta 423+10 Lt

9 *Remove Conc Driveway* — 2715 Sf
Sta 422+86 to Sta 423+50 Lt

18 *Remove AC Pavement* — 617 Sy
Sta 421+32 to Sta 423+50 Rt

62 *Remove Pipe 36" Backfill and Compact* — 254 Lf
Sta 421+00 to Sta 423+50 Rt

70 *Vert Realign 12" Waterline* — 1 Ea
MAG Det 370 and Dtl U1
Sta 421+25.06, 50.85' Lt

△ REMOVAL/RELOCATE BY OTHERS △

△1 *Relocate Existing SRPP (Transmission) Facility by SRPP (Transmission)*

△2 *Relocate Existing SRPP (Distribution) Facility by SRPP (Distribution)*

△3 *Adjust Existing Southwest Gas Facility by Southwest Gas*

△8 *Relocate Existing CenturyLink Facility by CenturyLink*

△15 *Relocate Existing Cox Facility by Cox*

△18 *Relocate Existing Wall by Others*

CITY OF TOLLESON

SEC 10
T1N-R1E

Quik Trip Corporation
101-12-608A

421+00 | 422+00 | 423+00

422+84.65, 92.85' Lt
422+84.65, 82.04' Lt

Sawcut

8' TCE

New TCE

Exist R/W

Remove Asphalt Ton = 1006.15

Exist C&G

83RD AVENUE

83rd Avenue Const ℄

Ton = Ukn

MATCH LINE STA 421+00 (SEE SHT R19)

MATCH LINE STA 423+50 (SEE SHT R42)

20' SRP Irrigation Esmt

New R/W

New TCE

5' TCE

SEC 11
T1N-R1E

EMC Holdings LLC
104-13-095-B

CITY OF TOLLESON

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
△1			
△2			
△3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, U.S.A. Expires 09/30/2020

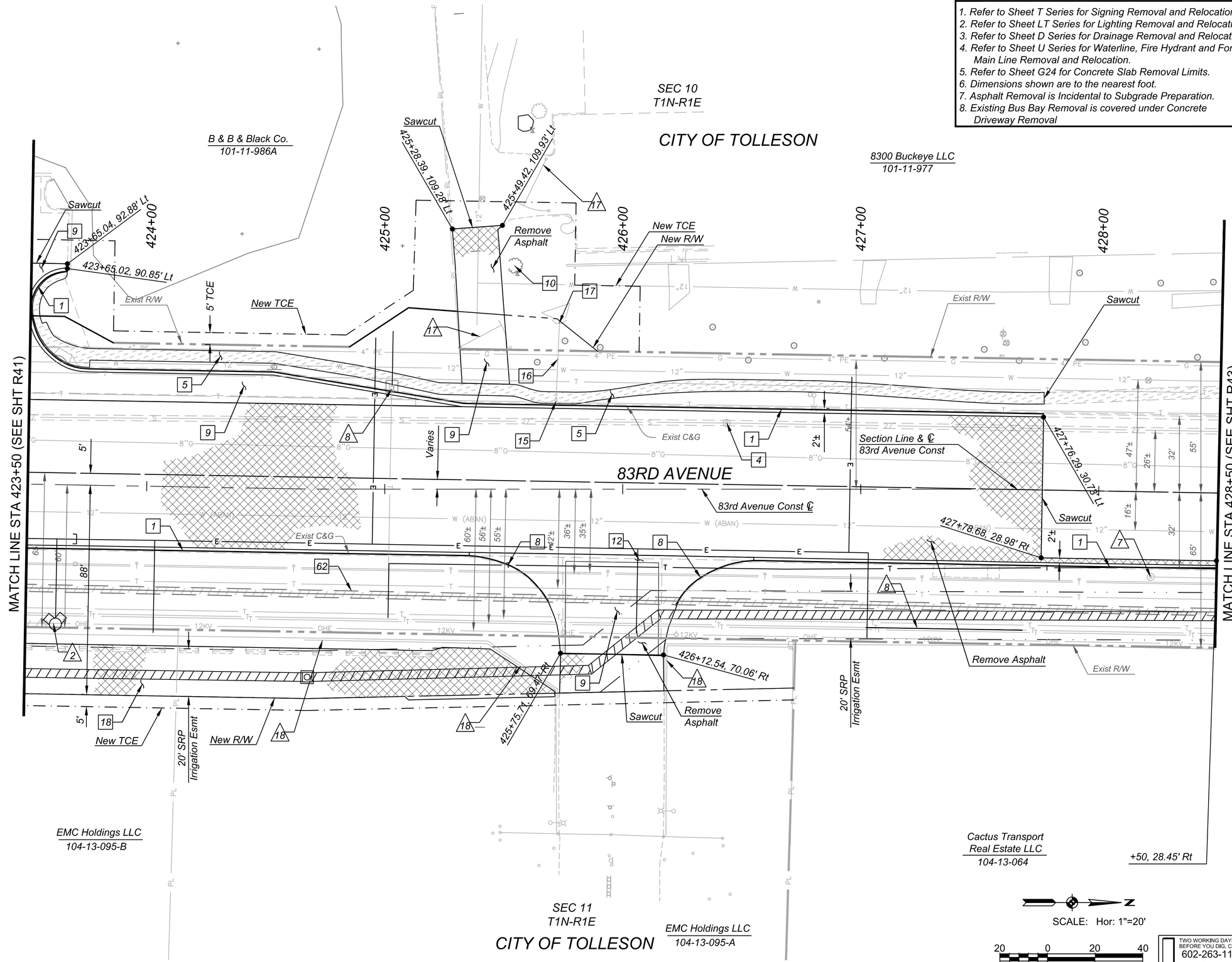
	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

83RD AVEREMOVAL AND RELOCATION SHEET
Sta 421+00 to Sta 423+50

SHEET R41 OF R45

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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	300	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1	Remove Conc C&G Sta 423+50 to Sta 427+76 Lt Sta 423+50 to Sta 425+35 Rt Sta 426+55 to Sta 428+50 Rt Sta 423+50, 74' to Sta 423+65, 90' Lt	842 Lf
4	Adjust Manhole Frame & Cover Per MAG Std Det 422 & P1430 Sta 426+43.67, 27.80' Lt	1 Ea
5	Remove Conc Sidewalk and Ramps Sta 423+50 to Sta 427+76 Lt	2203 Sf
8	Remove Conc Single Curb Sta 425+35 to Sta 425+69 Rt Sta 426+22 to Sta 426+55 Rt	83 Lf
9	Remove Conc Slab and Driveway Sta 423+50 to Sta 423+65 Lt Sta 423+50 to Sta 425+33 Lt Sta 425+28 to Sta 425+52 Lt Sta 425+76 to Sta 426+15 Rt	4382 Sf
10	Remove Tree, Diameter > 12" Sta 425+55, 93' Lt	1 Ea
12	Remove Conc Valley Gutter Sta 425+35 to Sta 426+55 Rt	1033 Sf
15	Remove Catch Basin	1 Ea
16	Remove 18" Storm Drain Pipe, Backfill & Compact	32 Lf
17	Remove Conc Headwall Sta 425+73, 70' Lt	1 Ea
18	Remove AC Pavement Sta 423+50 to Sta 425+72 Rt	458 Sy
62	Remove Pipe 36" Backfill and Compact Sta 423+50 to Sta 428+50 Rt	500 Lf

△ REMOVAL/RELOCATE BY OTHERS △

△1	Relocate Existing SRPP (Transmission) Facility by SRPP (Transmission)
△2	Relocate Existing SRPP (Distribution) Facility by SRPP (Distribution)
△7	Adjust Existing CenturyLink Facility by CenturyLink
△8	Relocate Existing CenturyLink Facility by CenturyLink
△17	Relocate Existing Gate by Others
△18	Relocate Existing Wall by Others

NO.	REVISION	BY	DATE
△1			
△2			
△3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Registered Professional Engineer (Civil) 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, USA Expires 09/30/2020

Kimley»Horn

TWO WORKING DAYS BEFORE YOU DIG, CALL 602-263-1100 BLUE STAKE

83RD AVE REMOVAL AND RELOCATION SHEET
Sta 423+50 to Sta 428+50

SHEET R42 OF R45

TRACS NO. _____

Plot Time: 1:09:20pm
Plot Date: 6/15/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R71.dwg

Plot Time: 1:09:39pm

Plot Date: 6/15/2018

Plotted By: mark.flood

K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R72.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. Refer to Sheet G24 for Concrete Slab Removal Limits.
6. Dimensions shown are to the nearest foot.
7. Asphalt Removal is Incidental to Subgrade Preparation.
8. Existing Bus Bay Removal is covered under Concrete Driveway Removal

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	301	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

1 *Remove Conc C&G* — *61 Lf*
Sta 428+50 to Sta 429+11 Rt

62 *Remove Pipe 36" Backfill and Compact* — *140 Lf*
Sta 428+50 to Sta 429+90 Rt

△ REMOVAL/RELOCATE BY OTHERS △

CITY OF TOLLESON

8300 Buckeye LLC
101-11-977

Environmental Alternative Fuels LLC
101-12-625

SEC 10
T1N-R1E

429+00 430+00 431+00 432+00 433+00

MATCH LINE STA 428+50 (SEE SHT R42)

MATCH LINE STA 433+50 (SEE SHT R44)

Exist R/W

Section Line &
83rd Avenue Const ℄

83RD AVENUE

Remove Asphalt
1
Sawcut

429+11, 28.44' Rt

429+11, 30.44' Rt

62

+00, 28.44' Rt

+50, 28.45' Rt

20' SRP
Irrigation Esmt

Exist C&G

Exist R/W

Salt River Project Aggricultural Improvement & Power District
104-13-002-J

Cactus Transport Real Estate LLC
104-13-064

Cactus Transport Real Estate LLC
104-13-063

SEC 11
T1N-R1E

CITY OF TOLLESON

W SHERMAN ST.

SCALE: Hor: 1"=20'

20 0 20 40
SCALE IN FEET

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil) CERTIFICATE NO. 38007 ROBERT LYONS Date Signed 6/15/18 ARIZONA, USA
Expires 09/30/2020

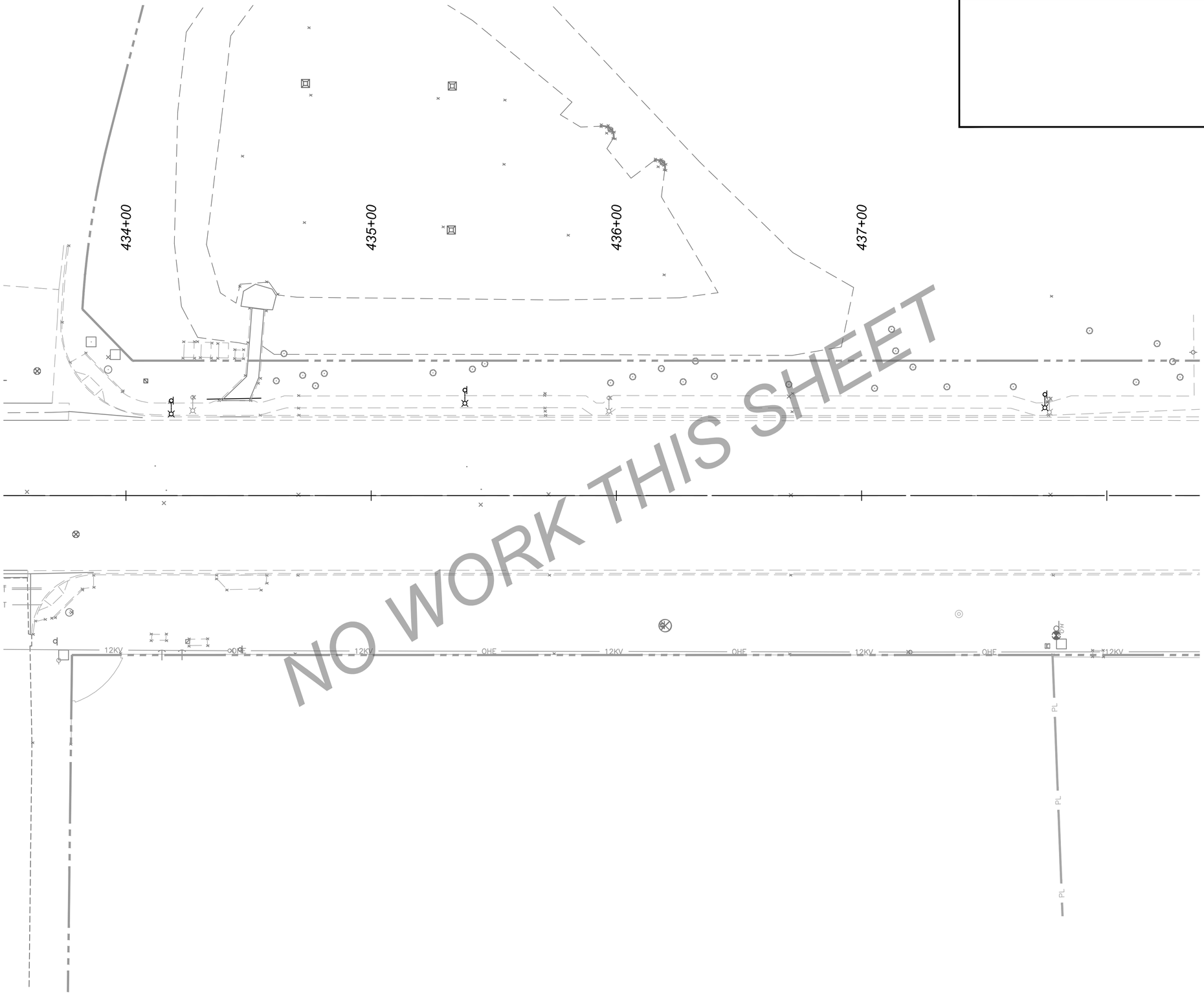
	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

REMOVAL AND RELOCATION SHEET
Sta 428+50 to Sta 433+50

SHEET R43 OF R45

TRACS NO. _____



NO WORK THIS SHEET

NOTES

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	302	303	

☐ REMOVAL/RELOCATE & CONSTRUCT ☐

△ REMOVAL/RELOCATE BY OTHERS △

NO.	REVISION	BY	DATE
1			
2			
3			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
38007
ROBERT
LYONS
Date Signed 6/15/18
ARIZONA, USA
Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

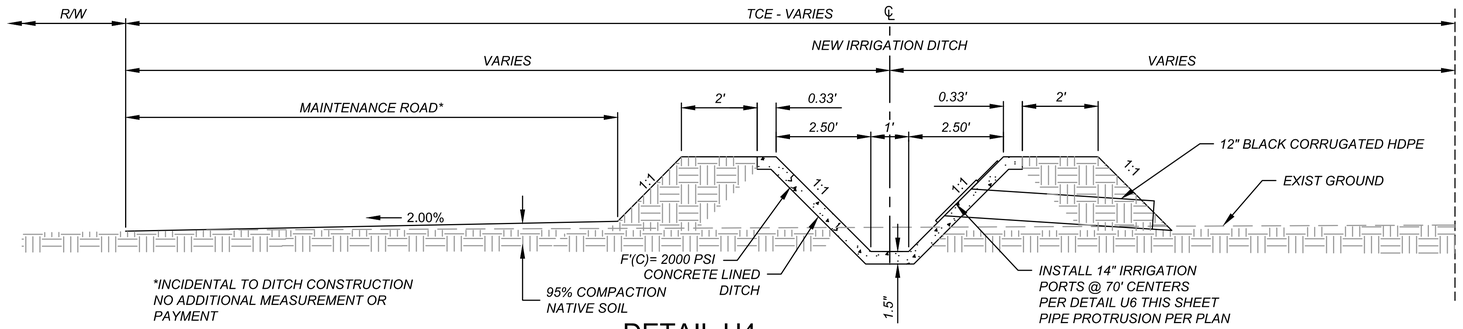
Kimley»Horn

REMOVAL AND RELOCATION SHEET

SHEET R44 OF R45

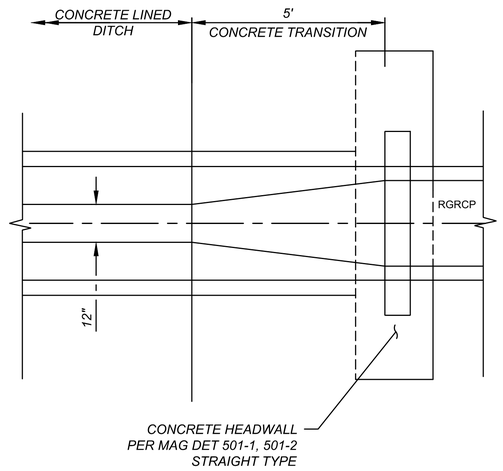
TRACS NO. _____

Plot Time: 1:09:58pm
Plot Date: 6/15/2018
Plotted By: mark.flood
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019_R72A.dwg



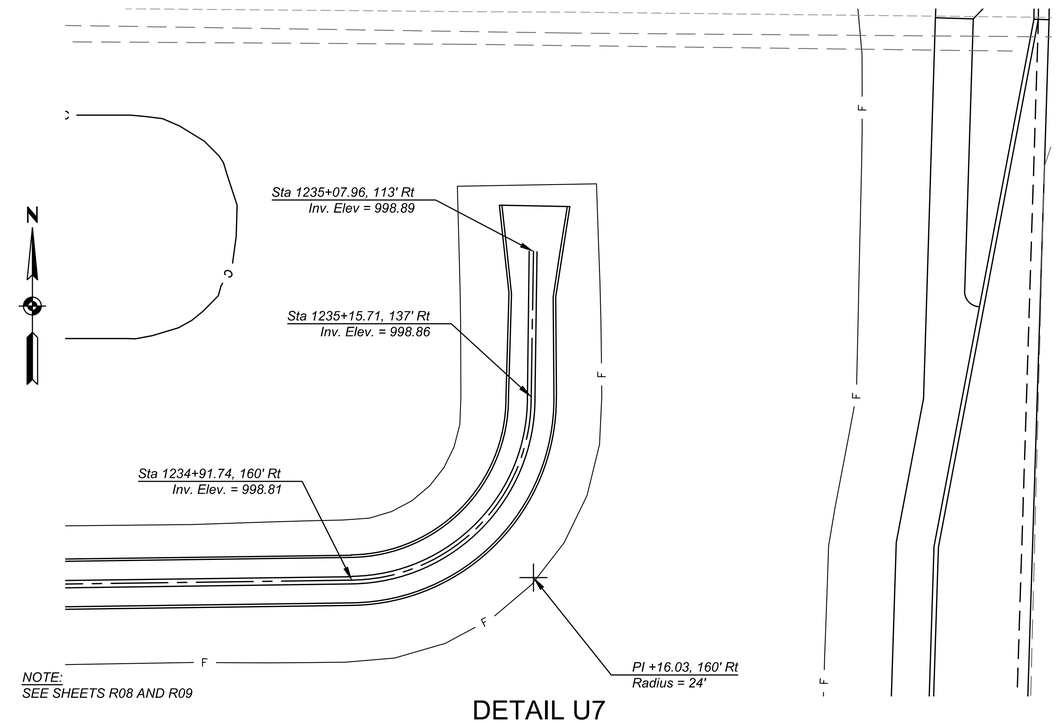
DETAIL U4
CONCRETE LINED DITCH AND TYPICAL SECTION

N.T.S.



DETAIL U5
CONCRETE DITCH TRANSITION WITH HEADWALL

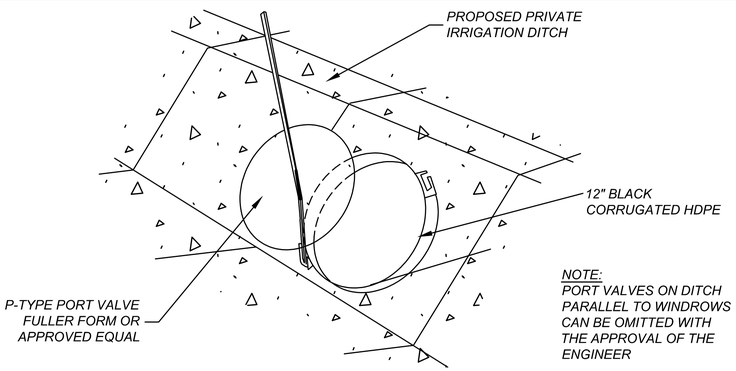
N.T.S.



NOTE:
SEE SHEETS R08 AND R09

DETAIL U7
CONCRETE IRRIGATION DITCH CURVE

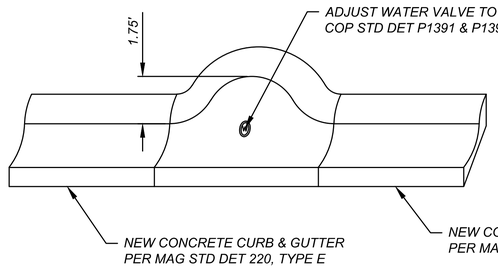
Scale: 1" = 10'



NOTE:
PORT VALVES ON DITCH PARALLEL TO WINDROWS CAN BE OMITTED WITH THE APPROVAL OF THE ENGINEER

DETAIL U6
CLIP-TYPE PORT VALVE

N.T.S.



NOTE:
SEE SHEET R36
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.

DETAIL U8
CURB WRAP-AROUND DETAIL

N.T.S.

TWO WORKING DAYS BEFORE YOU DIG, CALL
602-263-1100
BLUE STAKE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	AZ	TT345	303	303	

NO.	REVISION	BY	DATE
4			
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

MC 85 at 83RD AVENUE &
CENTER TURN LANE EXPANSION
PROJECT NO. TT345

Registered Professional Engineer (Civil)
CERTIFICATE NO.
38007
ROBERT
LYONS
Date Signed 6/15/18
ARIZONA, U.S.A.
Expires 09/30/2020

	BY	DATE
DESIGNED	J. Pesqueira	06/2018
DRAWN	M. Flood	06/2018
CHECKED	R. Lyons	06/2018

Kimley»Horn

PRIVATE IRRIGATION DETAILS

SHEET
R45 0F R45

TRACS NO. _____

Plot Time: 10:35:51am
Plot Date: 6/12/2018
Plotted By: justin.newton
K:\PHX_Roadway\191850000-MC 85\Cadd\03-Sheets\Utilities\AZE1019U07.dwg