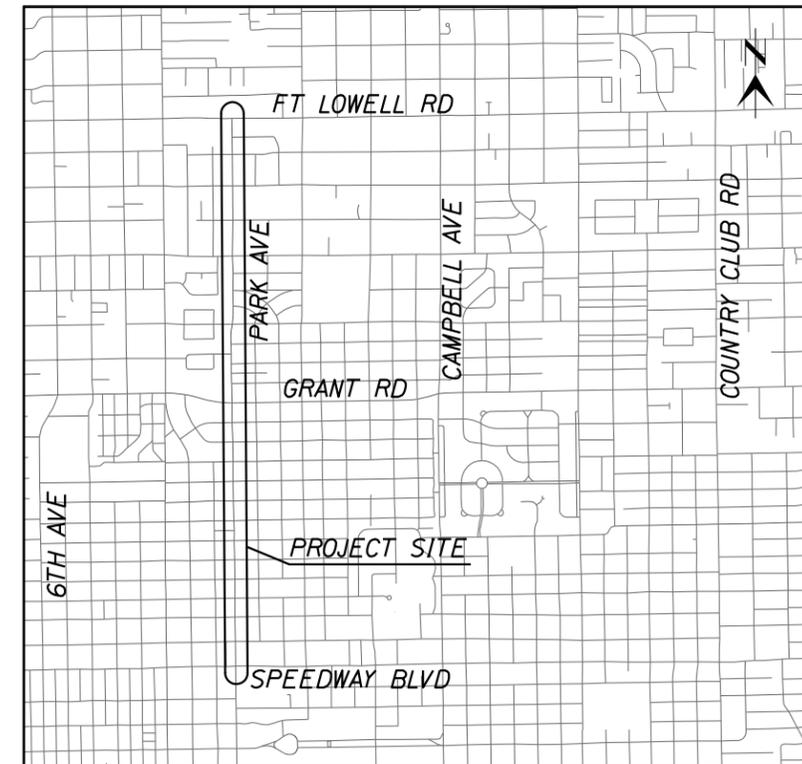


# PARK AVENUE ENHANCEMENT

## SPEEDWAY BOULEVARD TO FT LOWELL ROAD

### SHEET INDEX

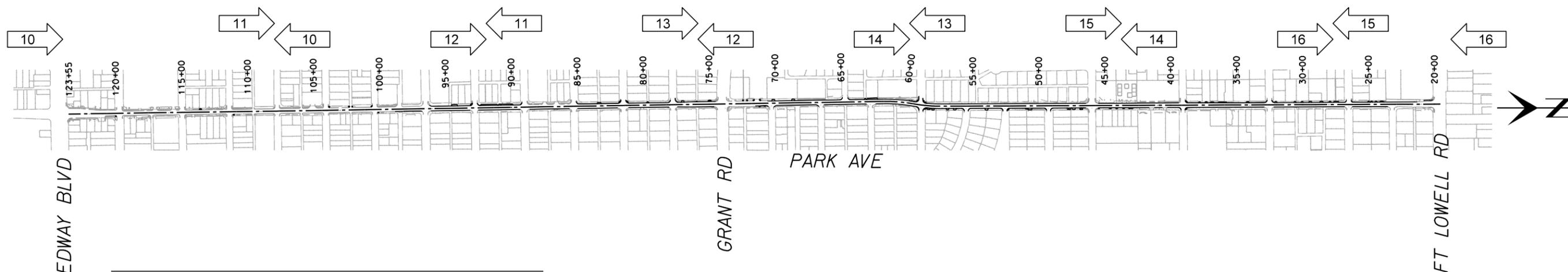
1	COVER
2	NOTES
3	TYPICAL SECTIONS
4-6	DETAILS
7	GEOMETRIC CONTROL
8-9	TABLES
10-16	PLAN SHEETS
17-23	SIDEWALK PLAN SHEETS
24-31	SIGNING AND STRIPING PLANS
32-39	WATER MODIFICATION PLANS



LOCATION MAP  
3" = 1 Mile

SECTION 6 T14S, R14E  
SECTION 31 T13S, R14E  
G.S.R.B.M.  
PIMA COUNTY, ARIZONA  
LONGITUDE W110° 57' 25"  
LATITUDE N32° 15' 00"

### PLAN SHEET LAYOUT



Pima County Regional Wastewater Reclamation Department \_\_\_\_\_ Date

FOR ACCEPTANCE CONDITIONS See the Water System Modification notes;  
Note 1, Sheet x of x

City of Tucson Water Department \_\_\_\_\_ Date



Kittelson & Associates, Inc. 2 E. Congress St., Suite 705 Tucson, AZ 85701 (520) 544-4067						CITY OF TUCSON	DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION	
NO.	DATE	REVISION	BY	CHKD.	APPR.		PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD	
PRELIMINARY 60% REVIEW NOT FOR CONSTRUCTION OR RECORDING						APPROVALS ENGINEERING ADMINISTRATOR TRAFFIC PLANNING & DESIGN ADMINISTRATOR LANDSCAPE ARCHITECT		
						SIGNATORY Date		
						Approved _____ 20__ TRANSPORTATION DIRECTOR		
						REF. _____ SCALE: _____ PLAN NO. _____ X-2013-XXX		
						DRWN. BY ABB 20.13 DSGN. BY ABB 20.13 CHKD. BY JAS 20.13		

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD		
APPROVALS ENGINEERING ADMINISTRATOR TRAFFIC PLANNING & DESIGN ADMINISTRATOR LANDSCAPE ARCHITECT	SIGNATORY Date	Approved _____ 20__ TRANSPORTATION DIRECTOR
		REF. _____ SCALE: _____ PLAN NO. _____ X-2013-XXX
		DRWN. BY ABB 20.13 DSGN. BY ABB 20.13 CHKD. BY JAS 20.13

GENERAL CONSTRUCTION NOTES

1. All new curb access ramp openings shall be horizontal sawcut by the Contractor unless directed otherwise by the Engineer.
2. Contact Diahn Swartz (791-4259) for assistance relocating existing traffic signs.
3. The Contractor shall maintain drivable access to Tucson Electric Power (TEP) poles, equipment and facilities during construction.
4. The Contractor shall exercise extreme caution when excavating near all Southwest Gas facilities. The Contractor shall support and/or protect in place all gas distribution and service facilities that are exposed during the installation of the sidewalk associated with the project.
5. The Contractor shall exercise extreme caution when excavating near all underground utility facilities. The Contractor shall support and/or protect in place all existing communication distribution facilities that are exposed during the installation of the lighting and sidewalk improvements associated with this project.
6. The Contractor shall take precautions not to damage water facilities that are in the area of construction. The Contractor will be responsible for any damage.
7. The Contractor shall support and/or protect in place all water facilities that are exposed during the installation of the lighting and sidewalk improvements associated with the project.
8. Water System Modification Pre Construction Procedure:
  - a. The Contractor shall contact the City of Tucson Water Department Construction Section (791-2665), a minimum of three (3) days prior to any water work.
  - b. The City of Tucson Water Department Construction Section will schedule the time and place of the meeting.
  - c. No water system construction shall begin until a "notice to proceed" has been issued by the City of Tucson Water Department.
  - d. Any water work installed prior to the notice to proceed date shall be removed by the Contractor at the Contractor's expense.
9. House or business sewer connections (HCS or BCS) are not part of the public sanitary sewer conveyance system. Private sewer connections constructed prior to January 2006 are not required to be Blue Staked. Any HCS/BCS encountered during construction shall be protected, repaired, or rerouted, as the situation dictates (COT/PC SD WWM 404), at no expense to the property owner or the Pima County Regional Wastewater Reclamation Department (PCRWRD).
10. Immediately report any release of sewage, and/or any damage to, or the dropping of debris into, the public sanitary sewage conveyance system to either PCRWRD Field Engineering (740-2651) or PCRWRD Field Operations (443-6500). On weekends, holidays, or between 5:00 pm and 8:00 am, immediately call Pima County Sheriff's Communication Center at 295-4595 or 741-4900 and request a PCRWRD representative to be dispatched to the site. Take immediate action to prevent or contain the sanitary sewage overflow (SSO) from the sewer system. The Contractor shall be responsible for all costs to repair the system, for all expenses to mitigate the release and to disinfect the contaminated areas, and for any regulatory penalties levied on PCRWRD because the SSO entered a natural or constructed storm water drainage system. The Contractor shall repair all damage as directed and approved by PCRWRD.
11. Storm Water Pollution Prevention Plan (SWPPP) measures shall be installed so as to prevent all storm water, construction water, fuels, chemicals, or liquids to be directed into or onto any sanitary sewer facilities. Protection of sanitary sewer facilities shall be a part of the Approved Construction SWPPP and Best Management Practices. Protection devices shall be installed and maintained around all potentially affected sanitary sewer facilities within the project limits. Additional measures shall include but not be limited to the use of rain stoppers and waterproof manhole covers as deemed necessary by PCRWRD.

12. All sewer manholes and lines shall be protected during construction.
13. Contractor shall maintain access to all existing sewer manholes at all times.
14. All Construction shall conform to the Pima County/COT Standard Specifications and Details (2003) except as modified in the Contract Specifications or Plans.
15. Construction shall comply with City of Tucson Native Plant Preservation Ordinance (NPP0). Thirty days prior to the start of construction. Native Plants to be transplanted shall be boxed.
16. The contractor shall verify existence of all utilities by calling Blue Stake at 800-782-5348, 48 hours prior to construction. The plan location of utilities being shown are approximate.
17. Dimensions shall not be scaled from drawings.
18. Traffic control shall conform to the requirements of the "Manual on Uniform Traffic Control Devices" US Department of Transportation. Federal Highway Administration, 2003 Edition., for approval no less than 48 hours prior to any work.
19. The Contractor shall maintain access to all driveways and mail boxes during construction and not restrict US Postal deliveries, waste collection and/or access to adjacent properties, except as approved by the Engineer in the field.
20. Unless otherwise noted, salvaged items shall be delivered to the COT Service Center at 4004 S Park Ave. The contractor shall coordinate the delivery with the appropriate agency.

DESIGN SPEED

ROADWAY	DESIGN SPEED	POSTED SPEED
Park Ave	35	30

LENGTH OF PROJECT

Park Avenue - Sta 19+60.00 to Sta 123+55.00

Gross Length = 10,395' (1.97 miles)

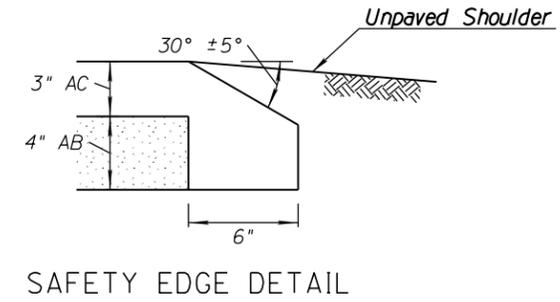
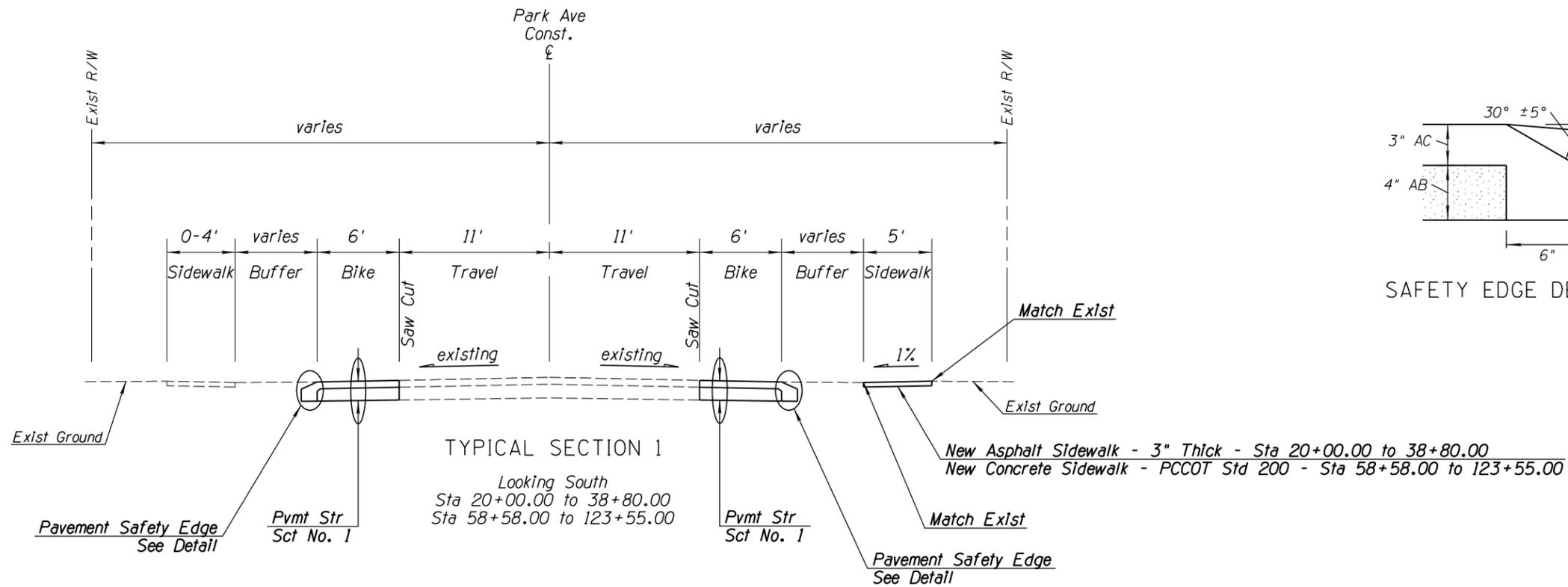
NOTES

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		2
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD		OF
CITY OF TUCSON		39
DRWN. BY	ABB	11/13
DSGN. BY	ABB	11/13
CHKD. BY	JAS	11/13
REF.	SCALE:	
PLAN NO.	x-2013-xxx	

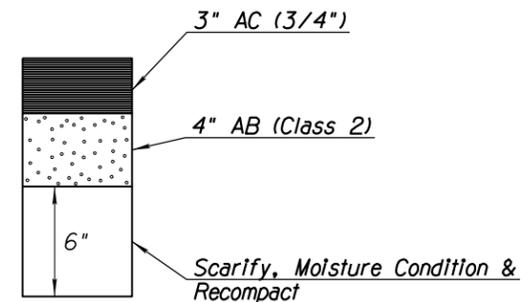
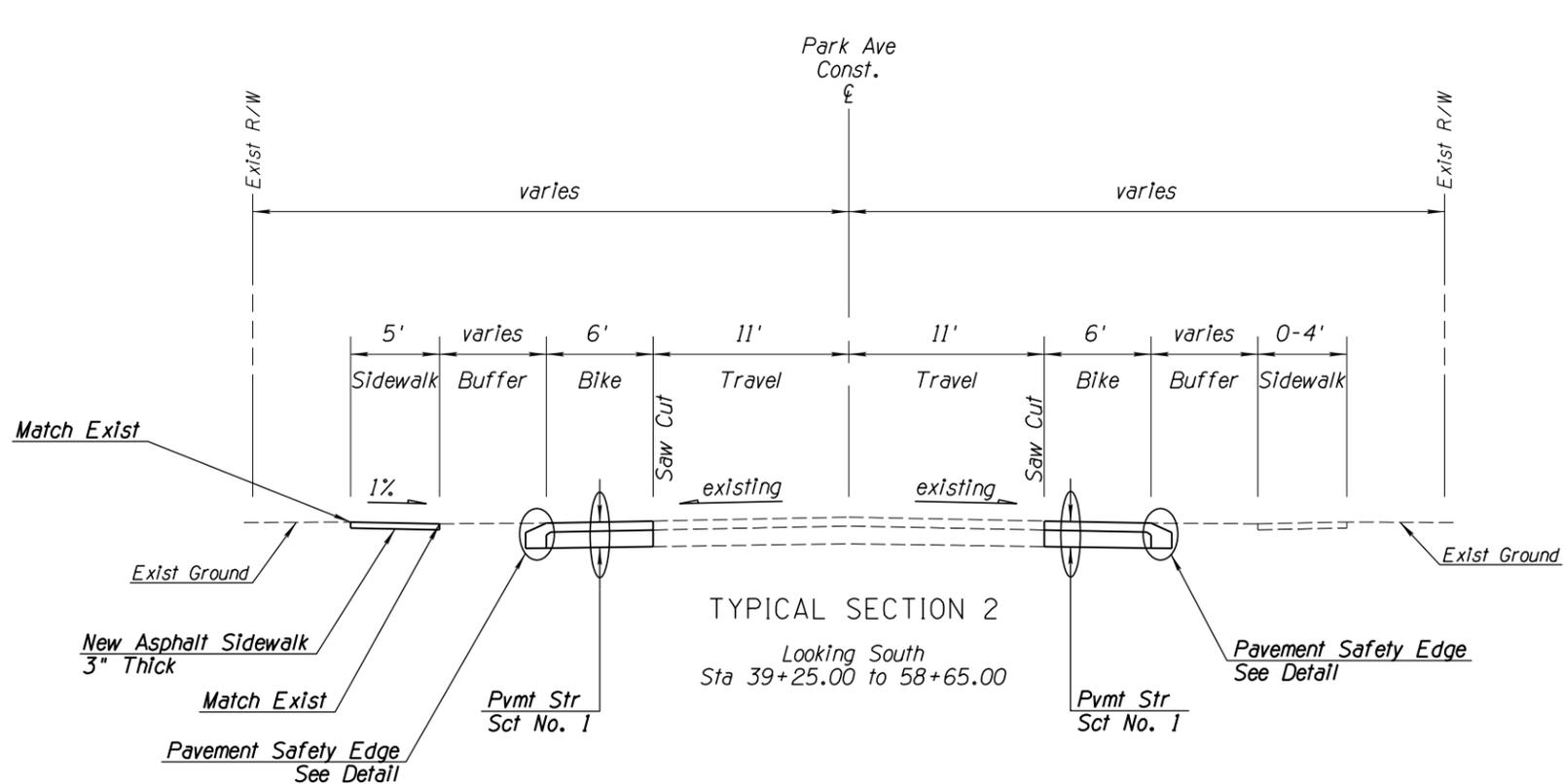
 Kittelson & Associates, Inc. 2 E. Congress St., Suite 705 Tucson, AZ 85701 (520) 544-4067					
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SAFETY EDGE DETAIL

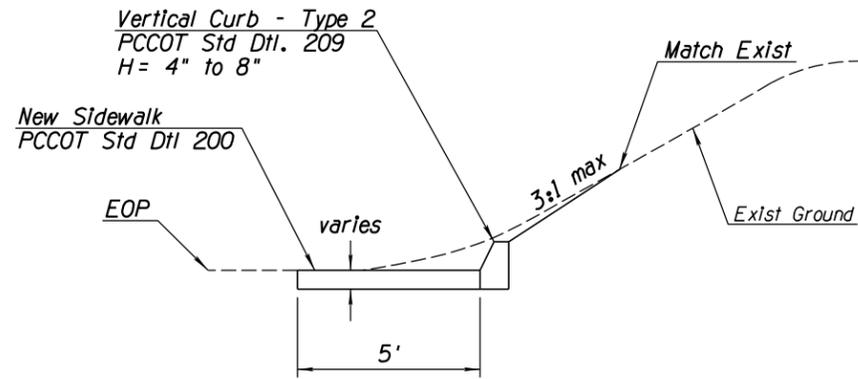


SECTION NO. 1  
PAVEMENT STRUCTURAL SECTION

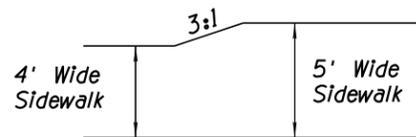


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NO.	DATE	REVISION	BY	CHKD.	APPR.

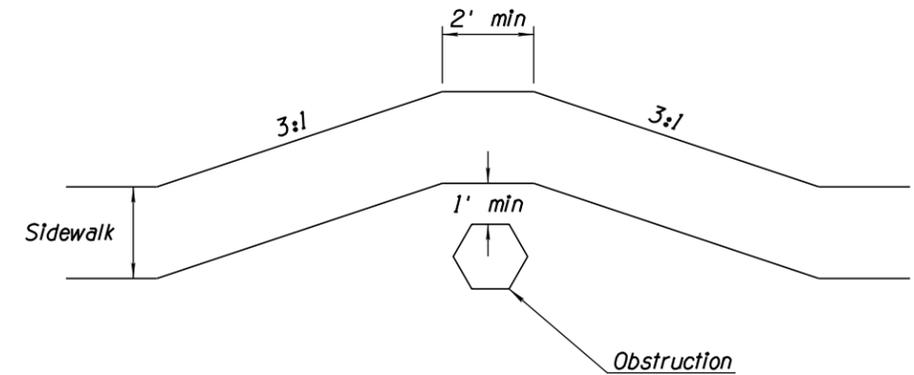
TYPICAL SECTIONS					
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION					3
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD					OF 39
	DRWN. BY	ABB	11/13	REF.	SCALE:
	DSGN. BY	ABB	11/13		
	CHKD. BY	JAS	11/13	PLAN NO.	x-2013-xxx



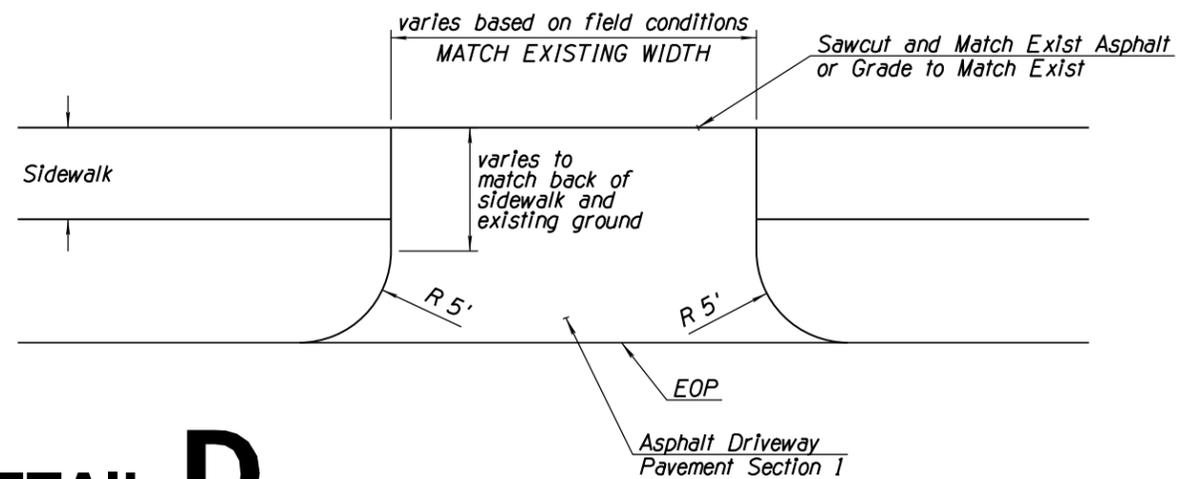
**DETAIL A**  
RETAINING CURB  
N.T.S.



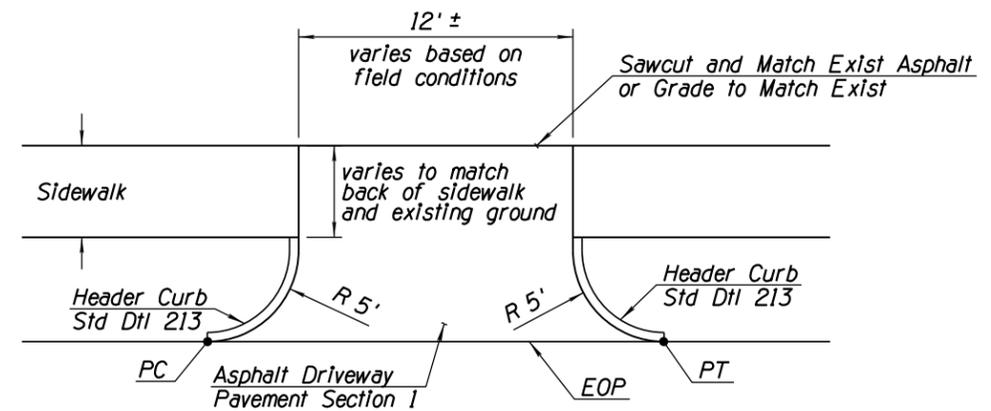
**DETAIL B**  
SIDEWALK TRANSITION  
N.T.S.



**DETAIL C**  
TYPICAL SIDEWALK TAPER  
N.T.S.



**DETAIL D**  
ASPHALT DRIVEWAY  
N.T.S.



**DETAIL E**  
ALLEY ACCESS  
N.T.S.

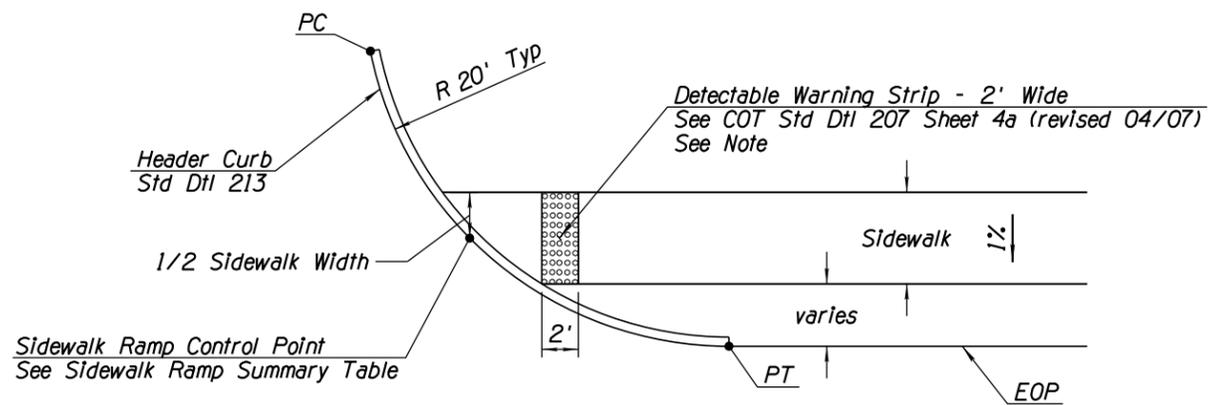


12/13/2013  
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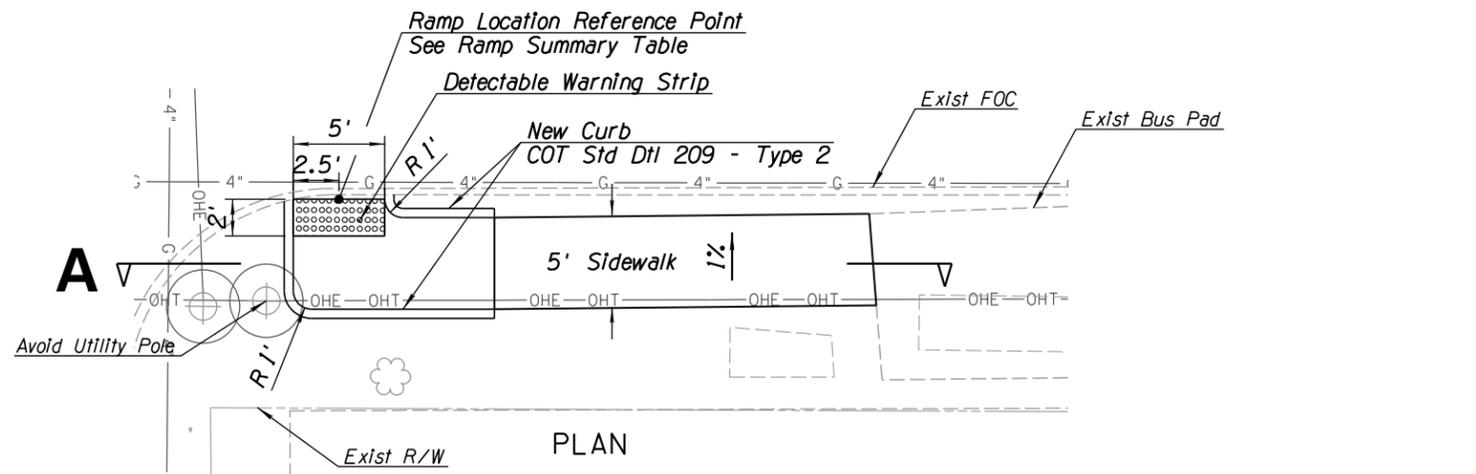
DETAILS			
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			4 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD			
	DRWN. BY	ABB	11/13
	DSGN. BY	ABB	11/13
	CHKD. BY	JAS	11/13
REF.	SCALE:		
PLAN NO.	x-2013-xxx		



# DETAIL F

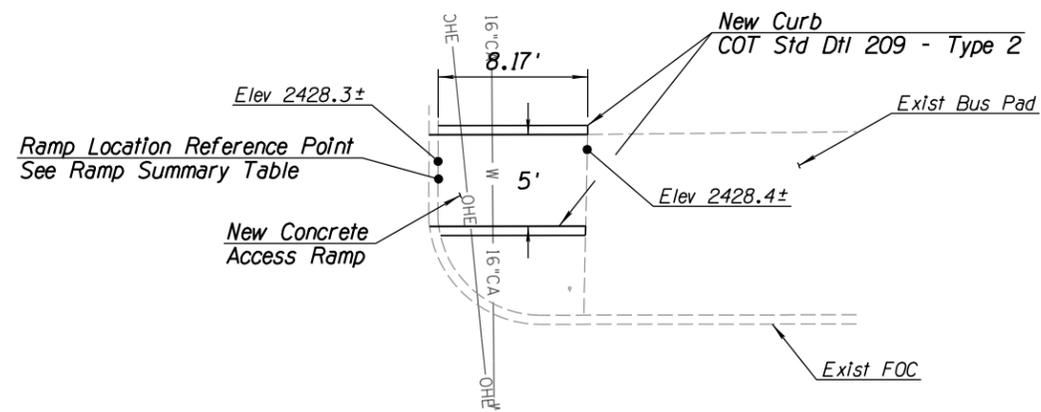
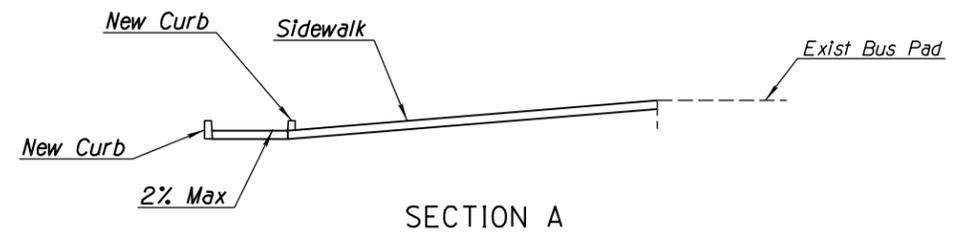
FLUSH SIDEWALK ACCESS  
N.T.S.

Note: If distance to curb exceeds 5', the detectable warning strip will extend to back of curb, as per COT standards.



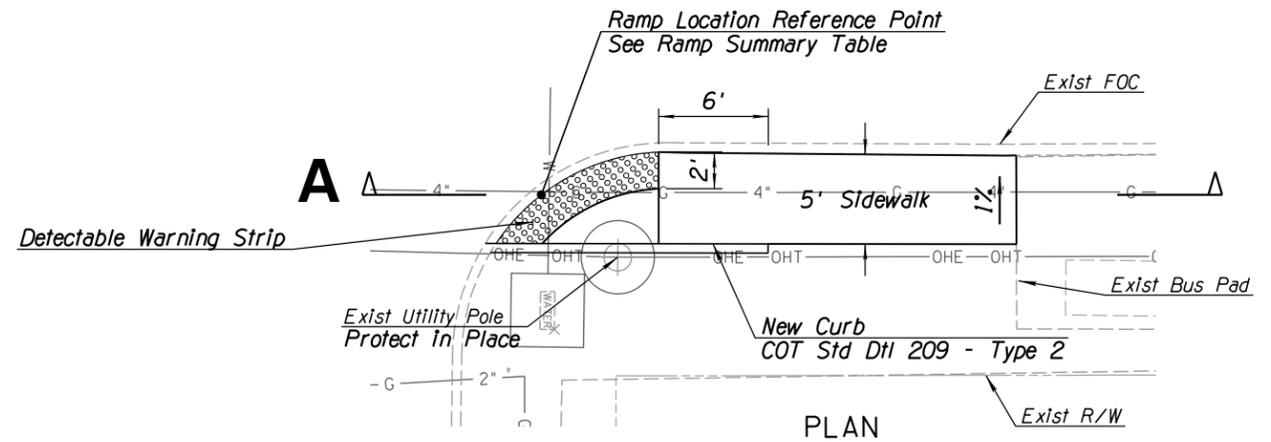
# DETAIL G

SIDEWALK ACCESS  
N.T.S.



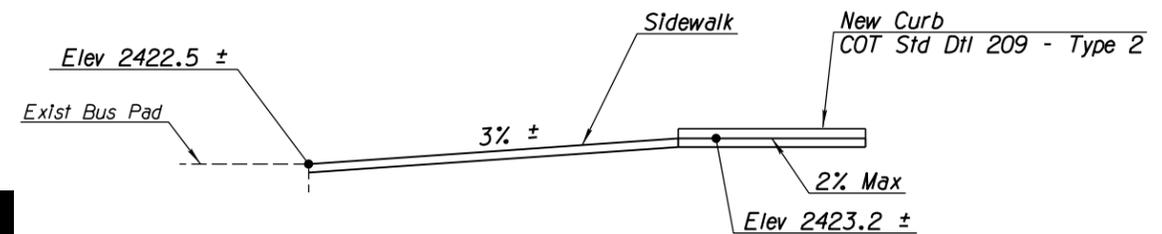
# DETAIL H

SIDEWALK ACCESS  
N.T.S.



# DETAIL I

SIDEWALK ACCESS  
N.T.S.



SECTION A

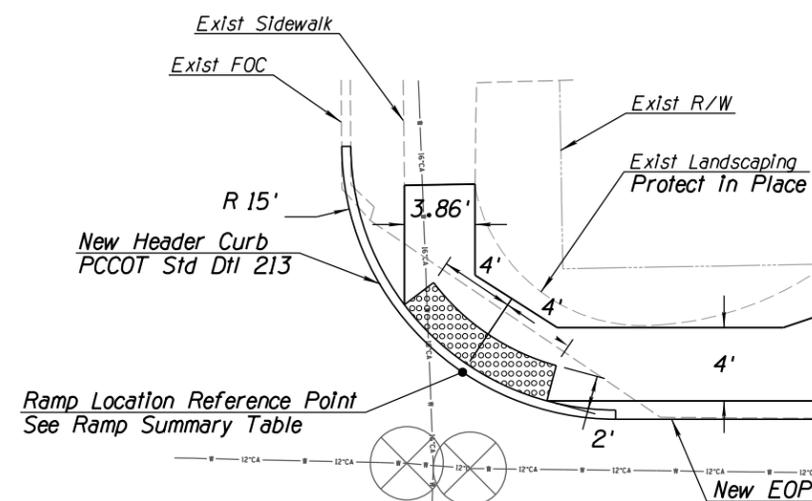
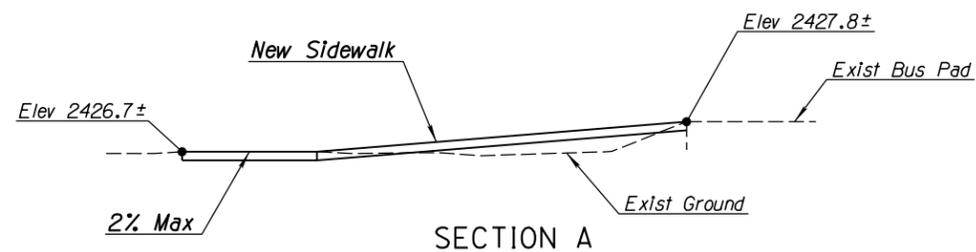
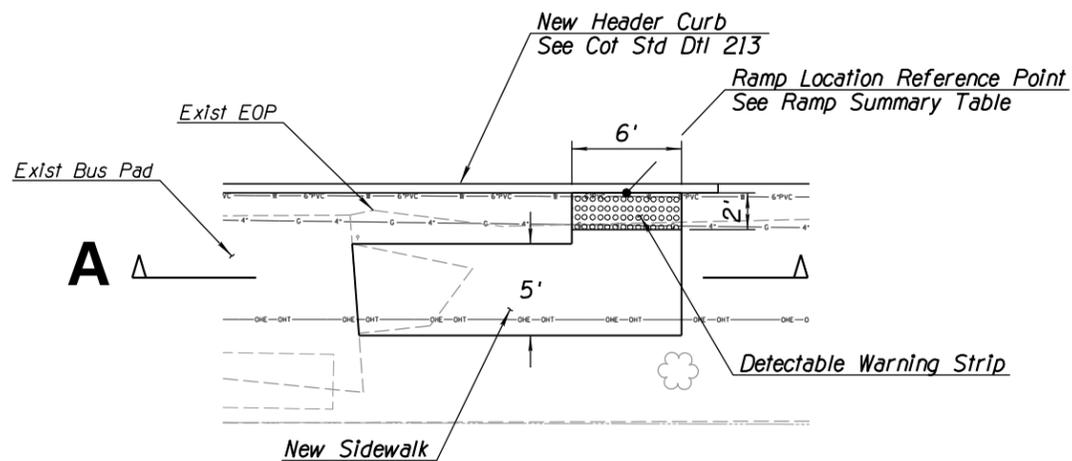
## DETAILS



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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				5
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD				OF
CITY OF TUCSON				39
DRWN. BY	ABB	11/13	REF.	SCALE:
DSGN. BY	ABB	11/13		
CHKD. BY	JAS	11/13	PLAN NO.	x-2013-xxx



**DETAIL J**  
SIDEWALK ACCESS  
N.T.S.

**DETAIL K**  
SIDEWALK ACCESS  
N.T.S.

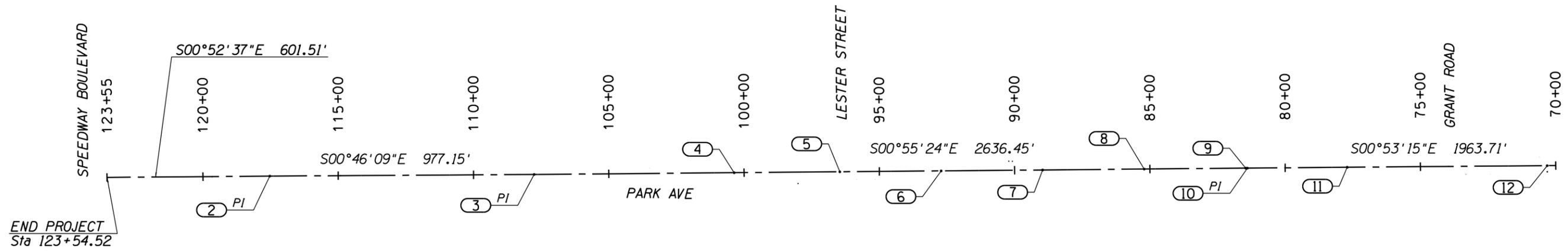


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NO.	DATE	REVISION	BY	CHKD.	APPR.

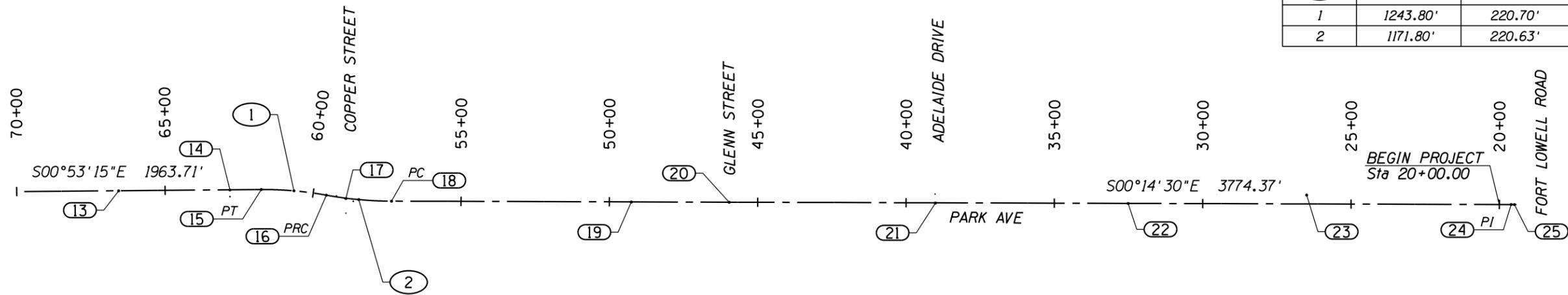
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DETAILS			
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			6 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD			
CITY OF TUCSON	DRWN. BY	ABB	11/13
	DSGN. BY	ABB	11/13
	CHKD. BY	JAS	11/13
REF.	SCALE:		
PLAN NO.	x-2013-xxx		



Curve Data Summary Table (Park Ave ☺)

(X)	Radius	Arc Length	Delta Angle	Tangent Length
1	1243.80'	220.70'	10°10'01"	110.64'
2	1171.80'	220.63'	10°47'17"	110.64'



Geometric Control Points Summary Table (Park Ave ☺)

(X)	Description	Station	Offset	Northing	Easting
1	End of Project	123+54.52	0.00' Rt	450999.9828	996797.7543
2	PI	117+53.01	0.00' Rt	451601.4210	996788.5488
3	PI	107+75.86	0.00' Rt	452578.4855	996775.4317
4	Found Monument	100+36.75	0.07' Lt	453317.4993	996763.5911
5	Found Monument	96+46.18	0.19' Lt	453708.0236	996757.4176
6	Found Monument	92+71.54	0.29' Lt	454082.6101	996751.4755
7	Found Monument	88+96.62	0.20' Lt	454457.4813	996745.3455
8	Found Monument	85+21.05	0.24' Lt	454833.0016	996739.3283
9	Found Monument	81+45.82	0.26' Lt	455208.1826	996733.3063
10	PI	81+39.41	0.00' Rt	455214.5942	996732.9406
11	Found Monument	77+70.81	0.02' Lt	455583.1495	996727.2536
12	Found Monument	70+31.59	0.19' Lt	456322.2818	996715.9669
13	Found Monument	66+56.51	0.41' Lt	456697.3198	996710.3848

Geometric Control Points Summary Table (Park Ave ☺) cont.

(X)	Description	Station	Offset	Northing	Easting
14	Found Monument	62+81.38	0.64' Lt	457072.4111	996704.8030
15	PT	61+75.70	0.00' Rt	457178.0647	996702.5252
16	PRC	59+55.07	0.00' Rt	457397.6806	996719.9299
17	Found Monument	58+88.54	1.37' Lt	457463.3238	996730.9950
18	PC	57+34.37	0.00' Rt	457617.3082	996738.5340
19	Found Monument	49+25.93	0.56' Lt	458425.7398	996735.6845
20	Found Monument	45+96.01	0.48' Lt	458755.6554	996734.2159
21	Found Monument	39+00.92	0.95' Lt	459450.7480	996731.7514
22	Found Monument	32+51.07	0.26' Lt	460100.5890	996728.3207
23	Found Monument	26+49.59	29.72' Rt	460701.9319	996695.8080
24	PI	19+60.00	0.00' Rt	461391.6421	996722.6154
25	Found Monument	-0+07.55	0.01' Rt	461399.1883	996722.5358



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GEOMETRIC CONTROL PLAN			
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			7 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD			
CITY OF TUCSON	DRWN. BY	ABB	11/13
	DSGN. BY	ABB	11/13
	CHKD. BY	JAS	11/13
REF.	SCALE:		
PLAN NO. x-2013-xxx			



### DRIVEWAY SUMMARY TABLE

DW No.	Station	Offset	Width (ft)	Removal (sq ft)	New Conc (sq ft)	Driveway Type	Remarks
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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33							
34							
35							
36							
37							
38							
39							
40							
41							
42							

### RAMP SUMMARY TABLE

Ramp No.	Sta	Offset	PC/COT Std Dtl 207
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
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<i>DRIVEWAY AND RAMP SUMMARY TABLES</i>			
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			9 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD			
CITY OF TUCSON	DRWN. BY	ABB	11/13
	DSGN. BY	ABB	11/13
	CHKD. BY	JAS	11/13
REF. _____	SCALE: _____	PLAN NO. <b>x-2013-xxx</b>	



**LEGEND**

 **New Driveway (Type) Reference No.**

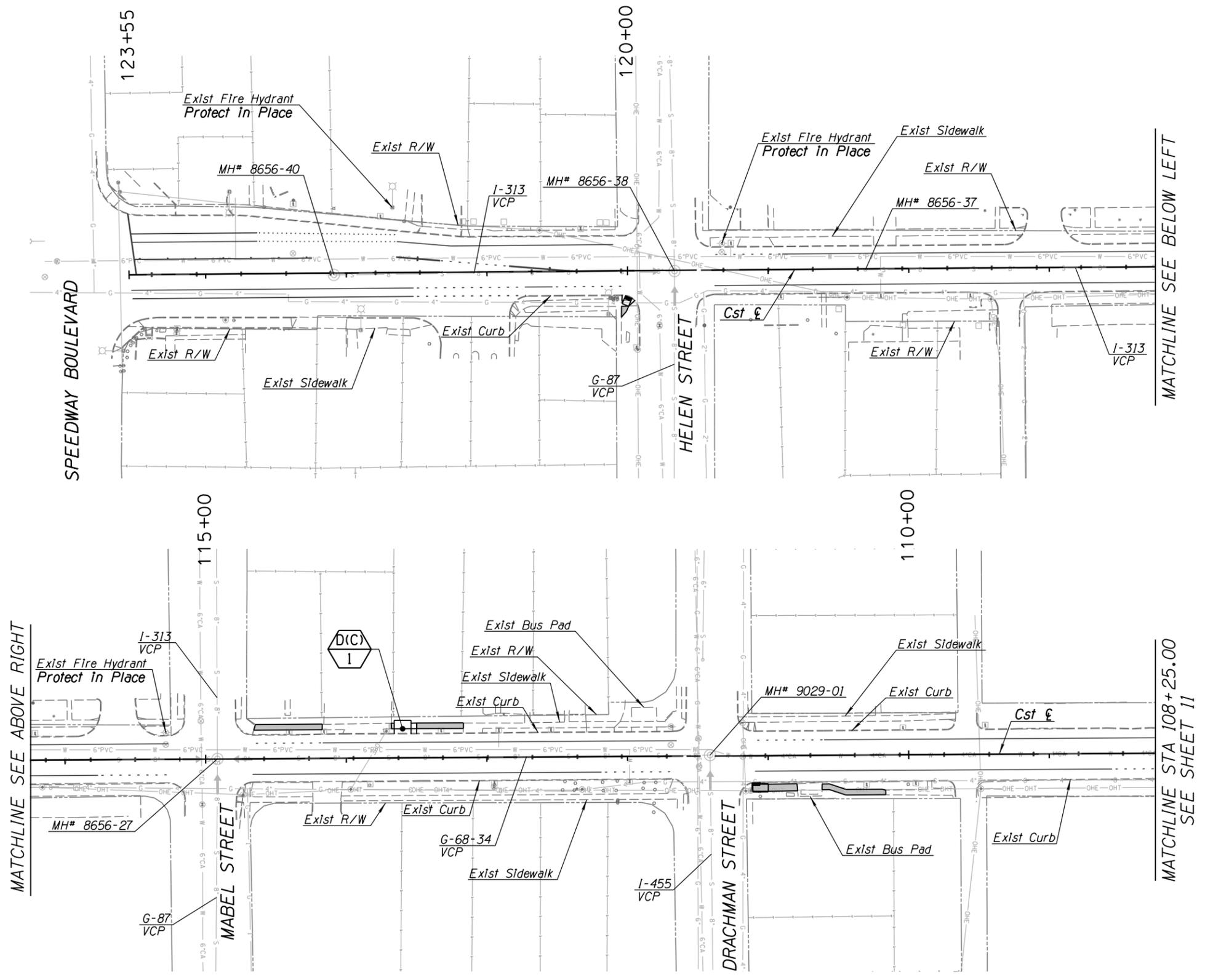
**Driveway Type:**

- C - Concrete - Sdt Dtl 206
- A - Asphalt - Detail D
- L - Asphalt Alley - Detail E

 **New Concrete Curb Reference No.**

**Curb Type:**

- 1 - Concrete Header - Std Dtl 213
- 2 - Type 2 - Detail A
- 3 - Std Dtl 209 - Type 2



MATCHLINE SEE ABOVE RIGHT

MATCHLINE STA 108+25.00 SEE SHEET 11

**PLAN SHEET**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		10
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD		OF 39
 <b>CITY OF TUCSON</b>	DRWN. BY: ABB	11/13
	DSGN. BY: ABB	11/13
	CHKD. BY: JAS	11/13
REF. _____	SCALE: 1" = 40'	
PLAN NO. _____	x-2013-xxx	

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

**ARIZONA 811**  
Arizona One Stop, Inc.  
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)



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OR RECORDING

Exist Fire Hydrant  
Protect in Place

MATCHLINE STA 108+25.00  
SEE SHEET 10

MH# 9476-09A  
G-168  
VPP

ADAMS STREET

Exist R/W

Exist Sidewalk

MH# 9476-09

Cst &

Exist R/W

Exist Fire Hydrant  
Protect in Place

MH# 9476-05

G-168  
VCP

105+00

LEE STREET

MH# 9476-06

Exist Curb

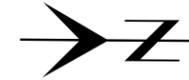
Exist Bus Pad

Proposed Water  
Harvesting Area

Exist R/W

ELM STREET

MATCHLINE SEE BELOW LEFT



**LEGEND**



New Driveway (Type)  
Reference No.

Driveway Type:

- C - Concrete - Std Dtl 206
- A - Asphalt - Detail D
- L - Asphalt Alley - Detail E



New Concrete Curb  
Reference No.

Curb Type:

- 1 - Concrete Header - Std Dtl 213
- 2 - Type 2 - Detail A
- 3 - Std Dtl 209 - Type 2

MATCHLINE SEE ABOVE RIGHT

Exist Sidewalk

Exist Curb

G-155  
VCP

Exist Bus Pad

Exist R/W

Exist R/W

Exist Fire Hydrant  
Protect in Place

Exist EP

G-155  
VCP

LESTER STREET

MH# 9478-05

Cst &

G-155  
VCP

95+00

Exist EP

Exist Fire Hydrant  
Protect in Place

MH# 9478-14

G-155  
VCP

LINDEN STREET

MATCHLINE STA 92+25.00  
SEE SHEET 12



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

**ARIZONA 811**  
Arizona One Stop, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348)



**K** Kittelson & Associates, Inc.  
2 E. Congress St., Suite 705  
Tucson, AZ 85701 (520) 544-4067

NO.	DATE	REVISION	BY	CHKD.	APPR.

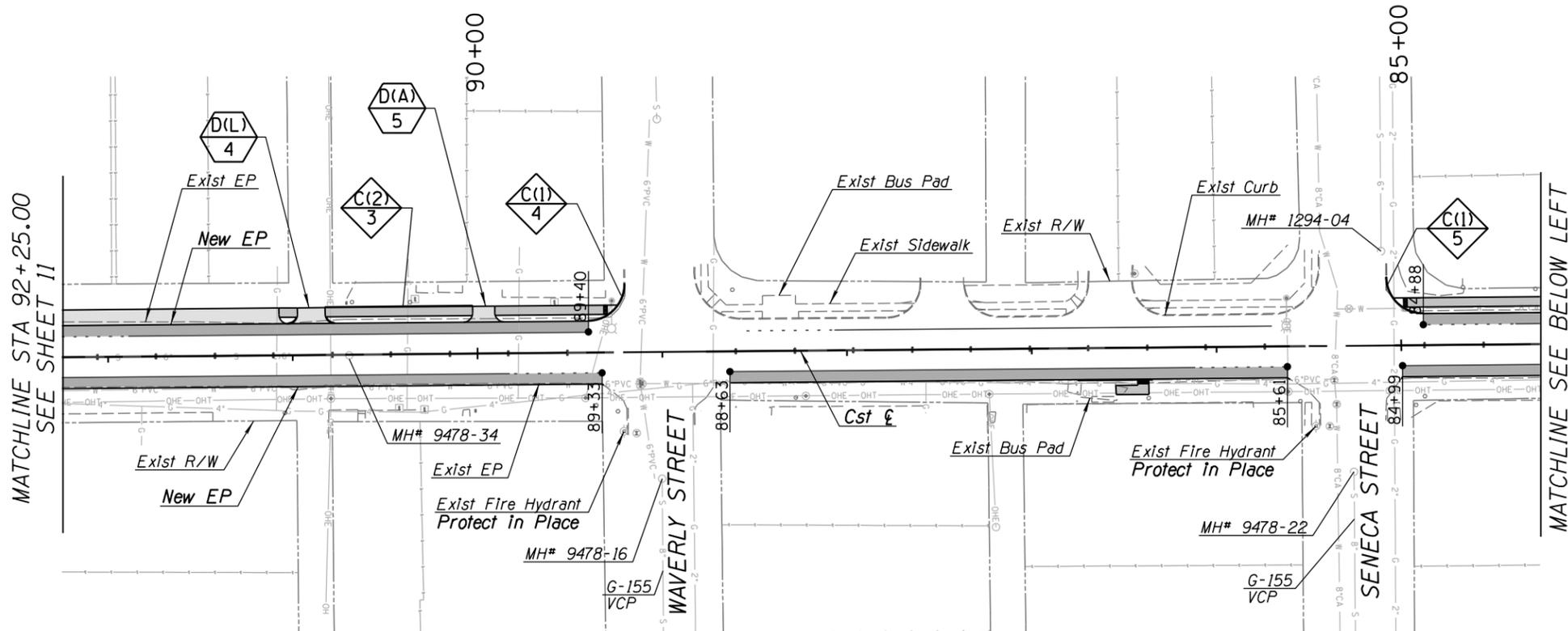
PRELIMINARY

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CONSTRUCTION  
OR RECORDING

**PLAN SHEET**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		11		
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD		OF 39		
	DRWN. BY	ABB	11/13	REF. _____ SCALE: 1" = 40'
	DSGN. BY	ABB	11/13	
	CHKD. BY	JAS	11/13	
PLAN NO. _____		x-2013-xxx		



**LEGEND**

**D(T)**  
X  
New Driveway (Type)  
Reference No.

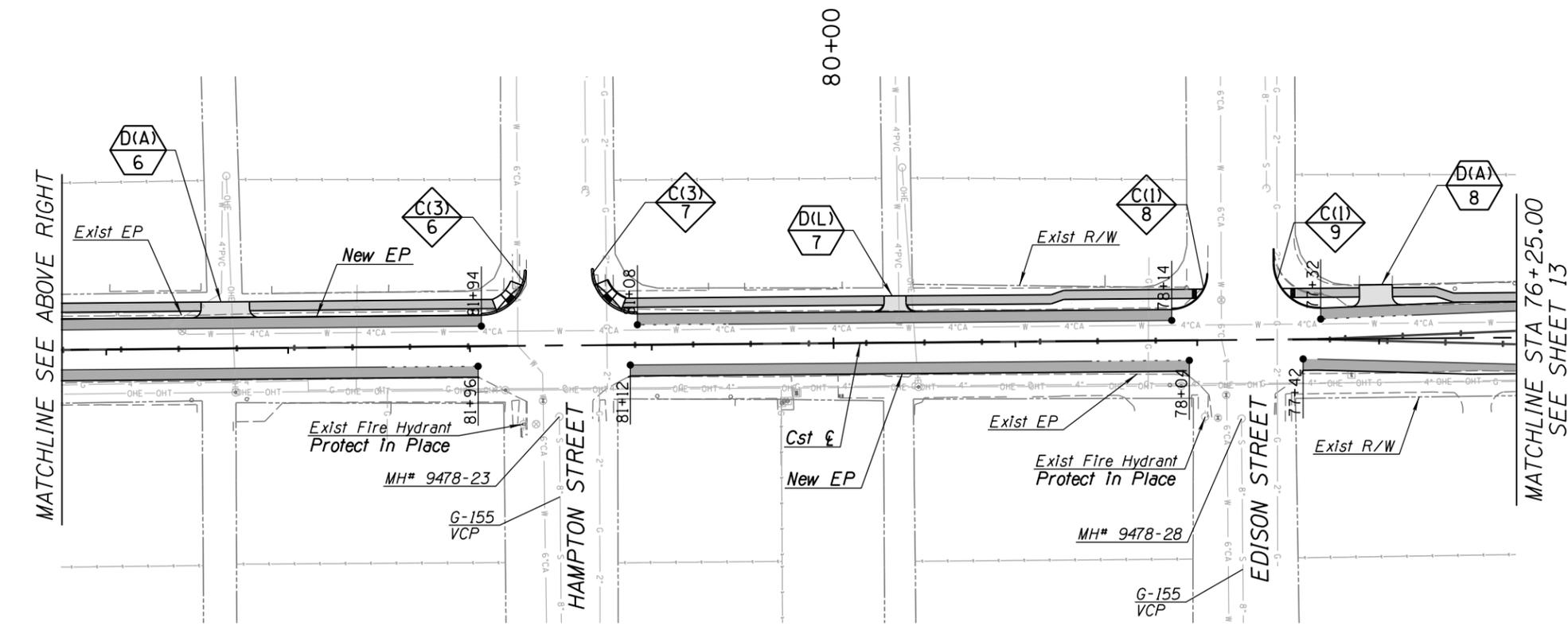
**Driveway Type:**

- C - Concrete - Std Dtl 206
- A - Asphalt - Detail D
- L - Asphalt Alley - Detail E

**C(T)**  
X  
New Concrete Curb  
Reference No.

**Curb Type:**

- 1 - Concrete Header - Std Dtl 213
- 2 - Type 2 - Detail A
- 3 - Std Dtl 209 - Type 2



MATCHLINE STA 76+25.00  
SEE SHEET 13

**PLAN SHEET**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		12		
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD		OF 39		
	DRWN. BY	ABB	11/13	REF. _____ SCALE: 1" = 40'
	DSGN. BY	ABB	11/13	
	CHKD. BY	JAS	11/13	

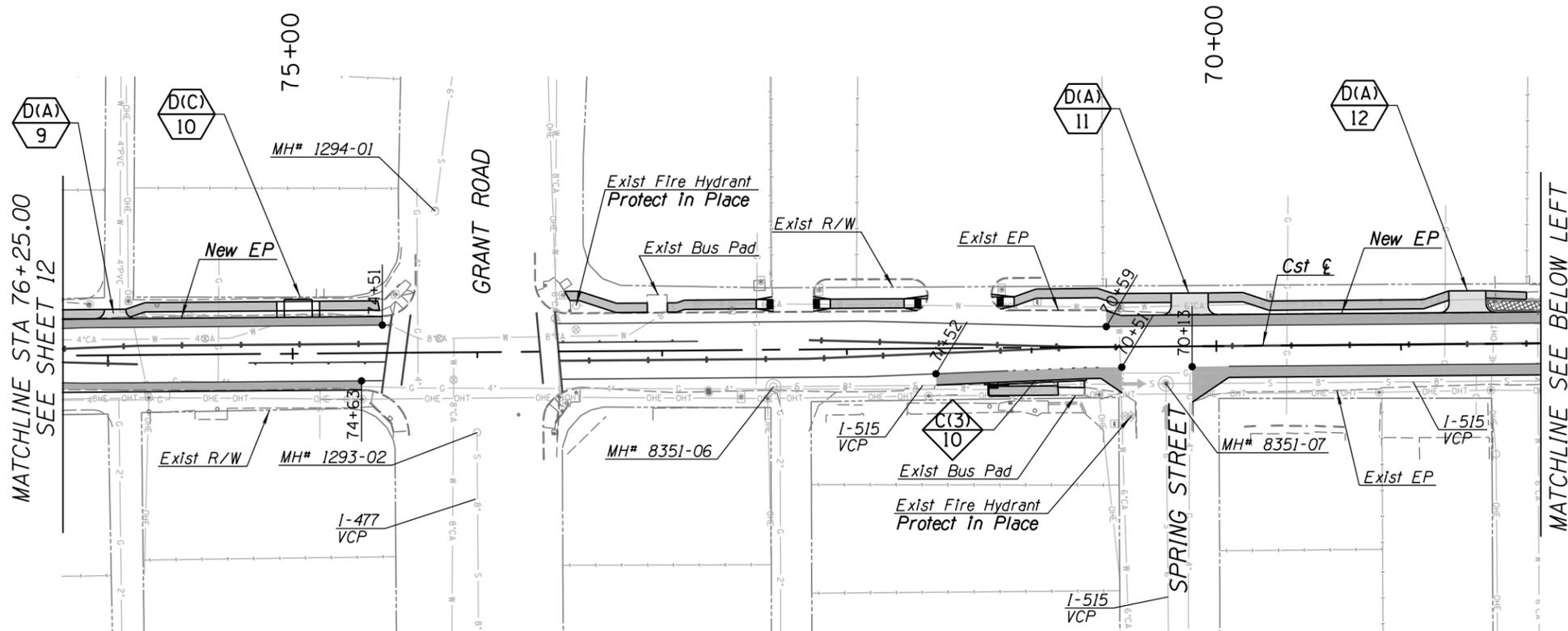
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**LEGEND**

**D(T)**  
X New Driveway (Type)  
Reference No.

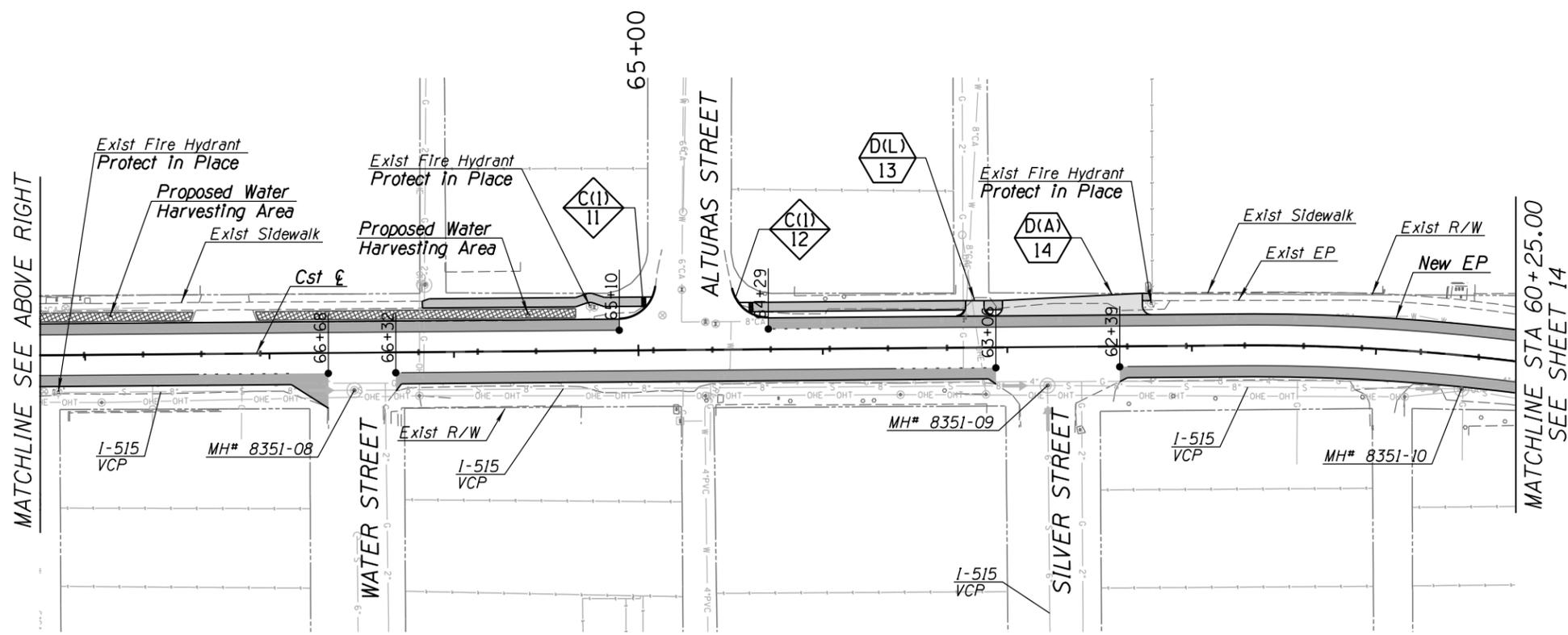
**Driveway Type:**

- C - Concrete - Sdt Dtl 206
- A - Asphalt - Detail D
- L - Asphalt Alley - Detail E

**C(T)**  
X New Concrete Curb  
Reference No.

**Curb Type:**

- 1 - Concrete Header - Std Dtl 213
- 2 - Type 2 - Detail A
- 3 - Std Dtl 209 - Type 2



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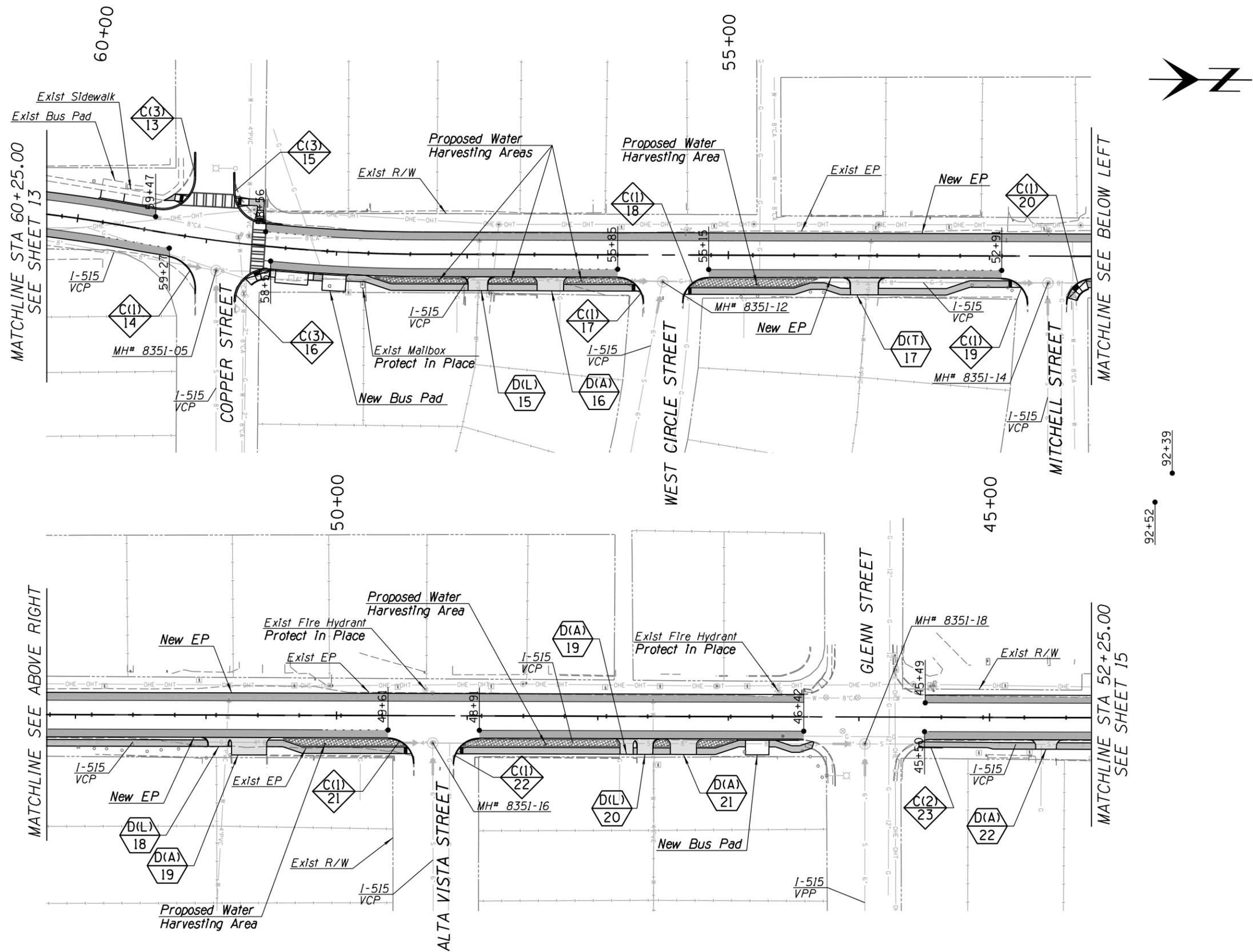
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**PLAN SHEET**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		13 OF 39		
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD				
<p>CITY OF TUCSON</p>	DRWN. BY	ABB	11/13	REF. _____ SCALE: 1" = 40'
	DSGN. BY	ABB	11/13	
	CHKD. BY	JAS	11/13	



**LEGEND**

New Driveway (Type) Reference No.

**Driveway Type:**

- C - Concrete - Std Dtl 206
- A - Asphalt - Detail D
- L - Asphalt Alley - Detail E

New Concrete Curb Reference No.

**Curb Type:**

- 1 - Concrete Header - Std Dtl 213
- 2 - Type 2 - Detail A
- 3 - Std Dtl 209 - Type 2

MATCHLINE SEE ABOVE RIGHT

MATCHLINE STA 52+25.00 SEE SHEET 15

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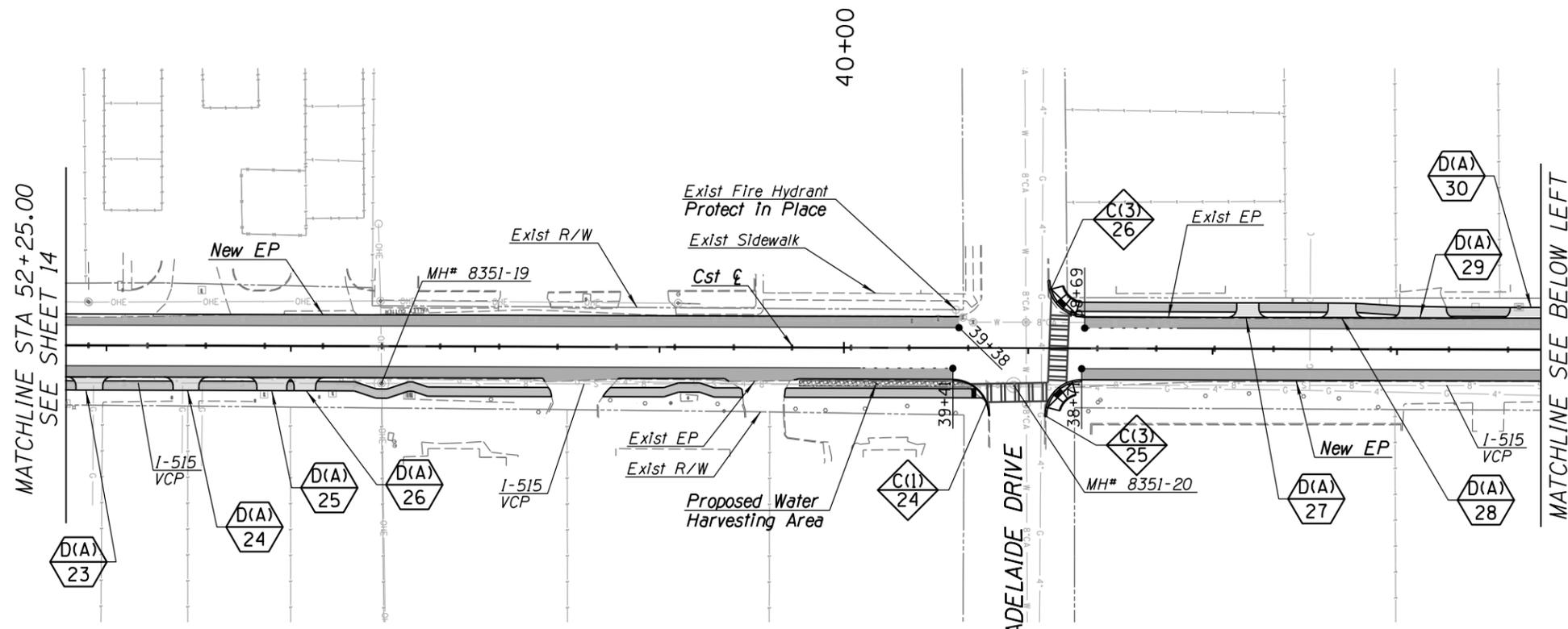
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OR RECORDING

**PLAN SHEET**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		14
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD		OF 39
CITY OF TUCSON	DRWN. BY    ABB	11/13
	DSGN. BY    ABB	11/13
	CHKD. BY    JAS	11/13
REF. _____ SCALE: 1" = 40'		PLAN NO.    x-2013-xxx



**LEGEND**

New Driveway (Type) Reference No.

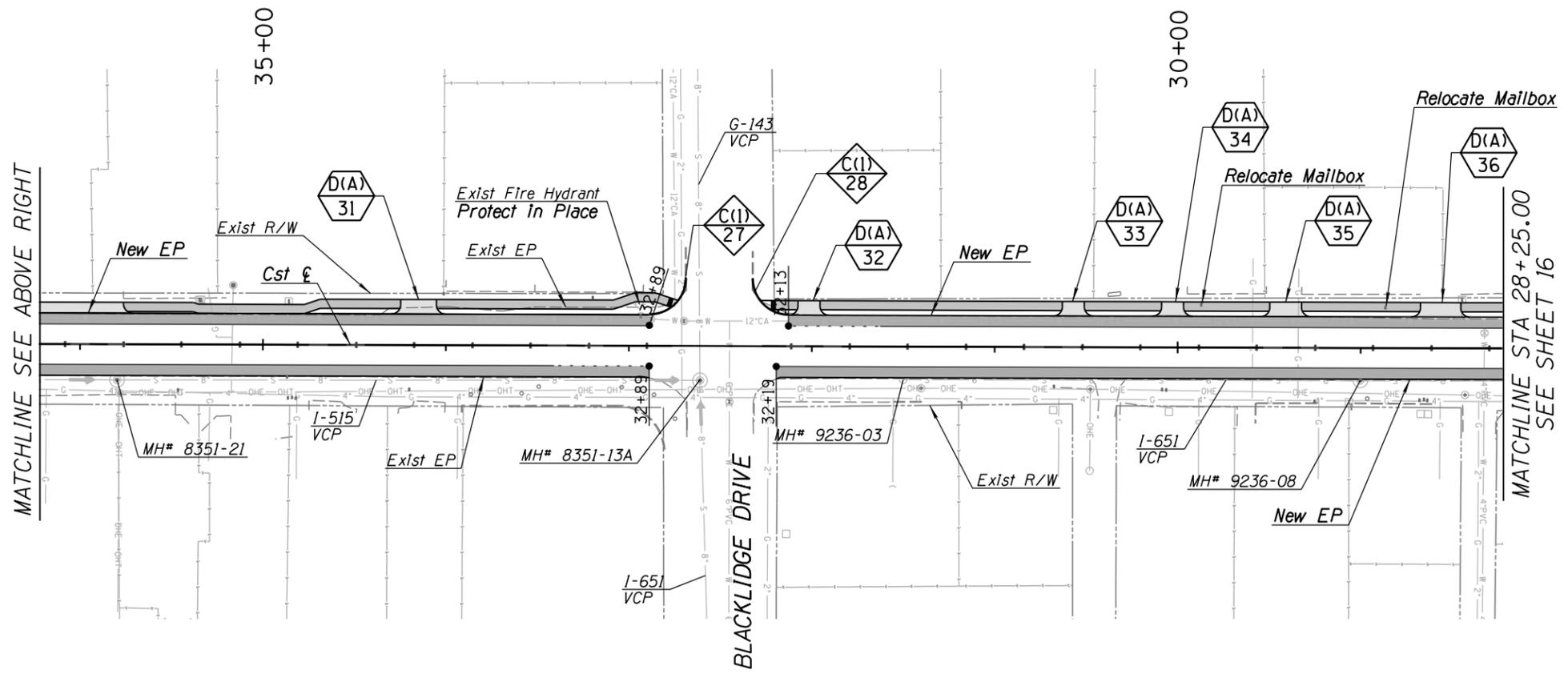
**Driveway Type:**

C - Concrete - Std Dtl 206  
 A - Asphalt - Detail D  
 L - Asphalt Alley - Detail E

New Concrete Curb Reference No.

**Curb Type:**

1 - Concrete Header - Std Dtl 213  
 2 - Type 2 - Detail A  
 3 - Std Dtl 209 - Type 2



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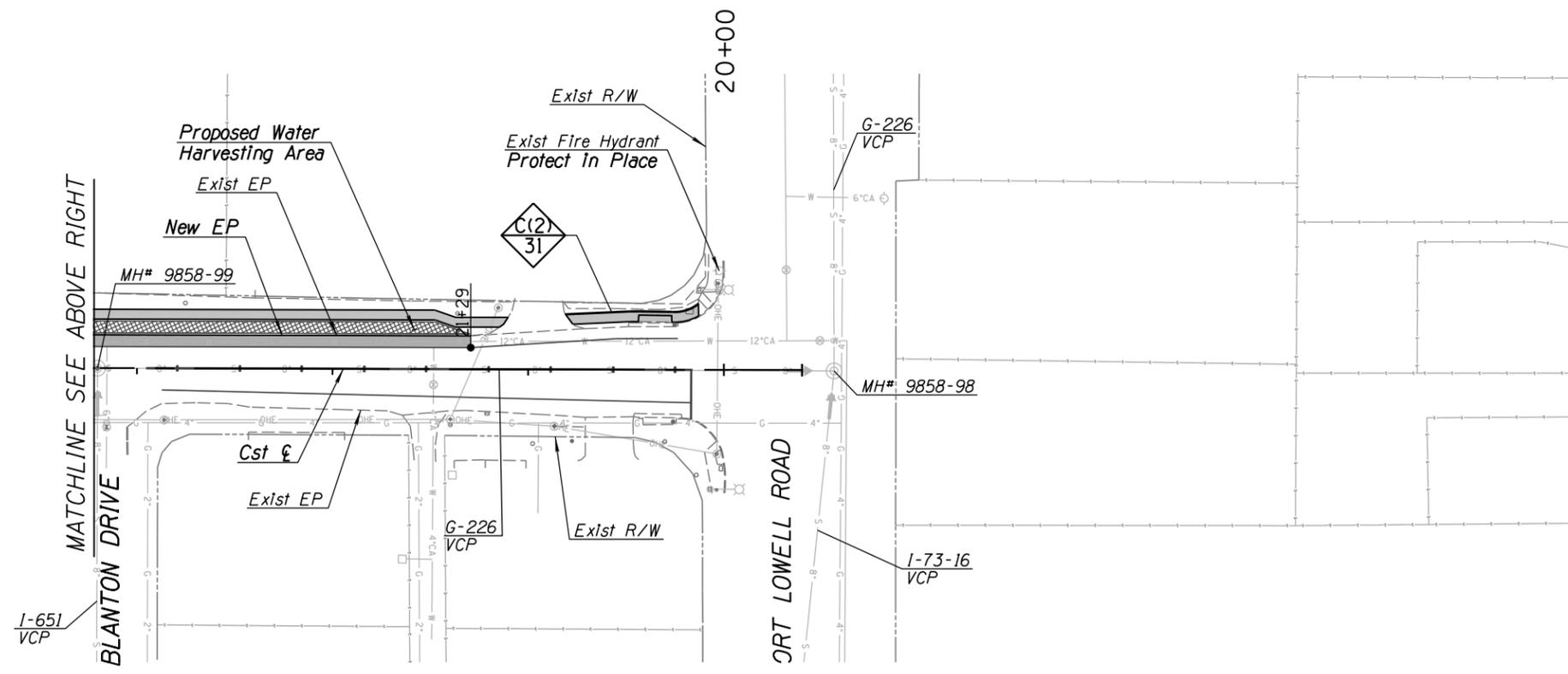
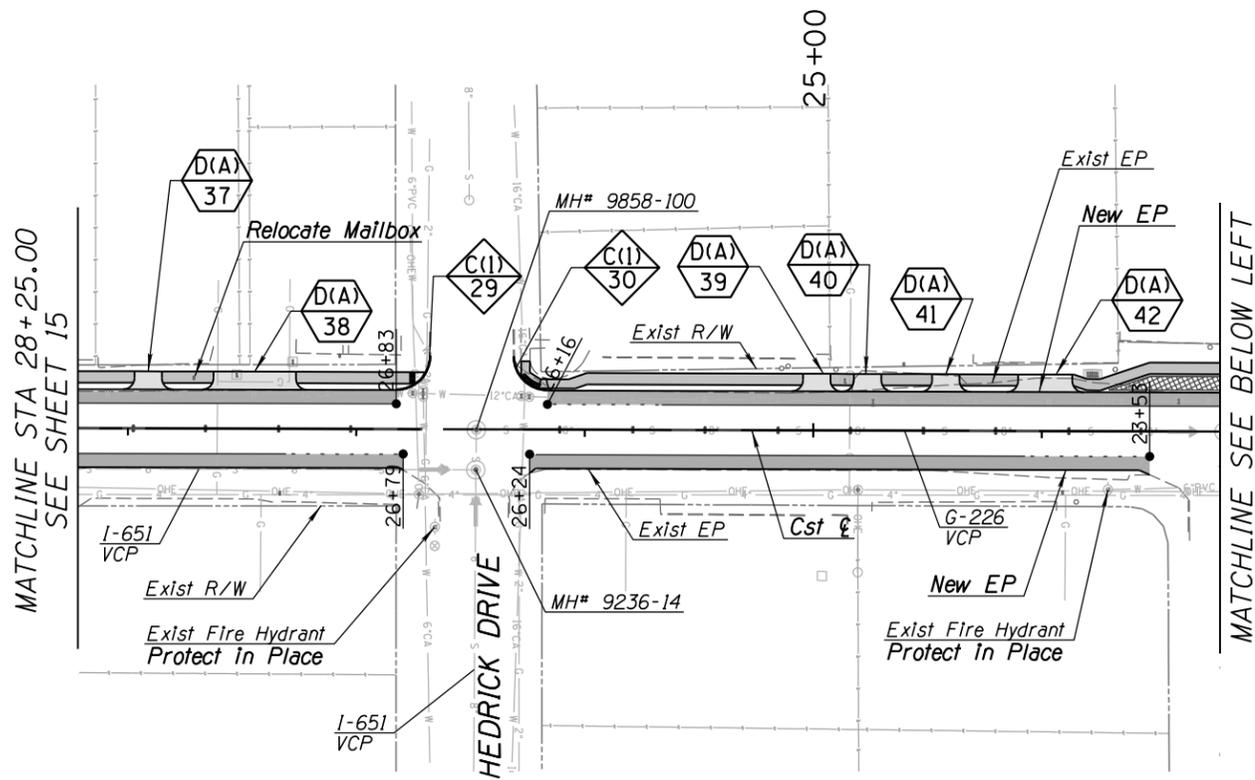
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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		15 OF 39			
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD					
CITY OF TUCSON	DRWN. BY	ABB	11/13	REF.	SCALE: 1" = 40'
	DSGN. BY	ABB	11/13		
	CHKD. BY	JAS	11/13	PLAN NO.	x-2013-xxx



**LEGEND**

 New Driveway (Type) Reference No.

**Driveway Type:**

- C - Concrete - Std Dtl 206
- A - Asphalt - Detail D
- L - Asphalt Alley - Detail E

 New Concrete Curb Reference No.

**Curb Type:**

- 1 - Concrete Header - Std Dtl 213
- 2 - Type 2 - Detail A
- 3 - Std Dtl 209 - Type 2

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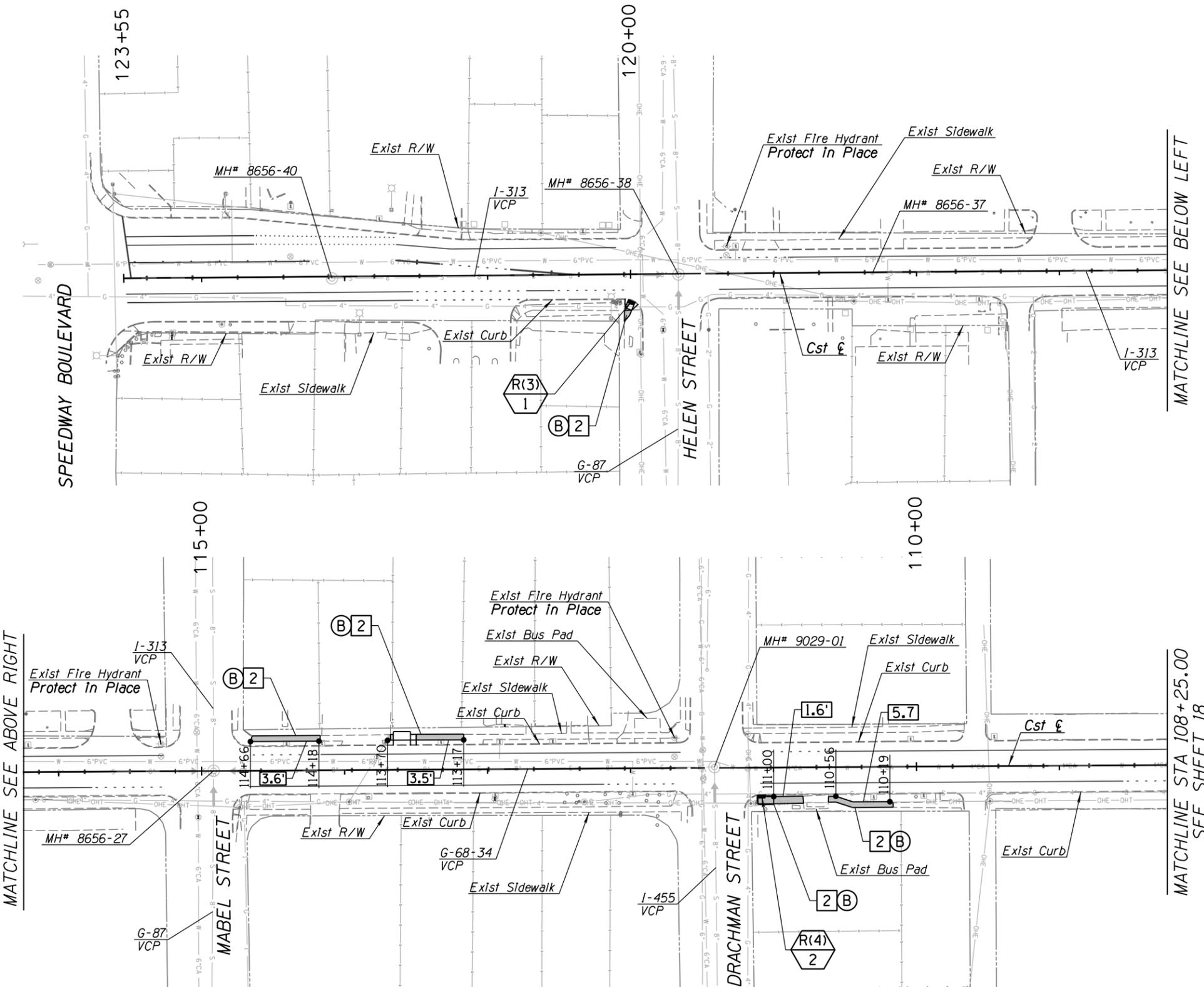
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NO.	DATE	REVISION	BY	CHKD.	APPR.

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**PLAN SHEET**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				16 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD				
 <b>CITY OF TUCSON</b>	DRWN. BY	ABB	11/13	REF. _____ SCALE: 1" = 40'
	DSGN. BY	ABB	11/13	
	CHKD. BY	JAS	11/13	



**LEGEND**

(R(T)  
X  
New Access Ramp (Type)  
Reference No.

Ramp Type:  
1 - Detail F  
2 - Std Dtl 207, Sht 1  
3 - Std Dtl 207, Sht 4A  
4 - Detail G

- 1 5' Concrete Sidewalk  
(4" Thick - Std Dtl 200)
- 2 4' Concrete Sidewalk  
(4" Thick - Std Dtl 200)
- 3 5" Asphalt Sidewalk  
(3" Thick)
- 4 4" Asphalt Sidewalk  
(3" Thick)
- 5 New Bus Pad  
(6" Thick)  
See Plan for Dimensions
- (A) Sidewalk to Abut EOP
- (B) Transition to Match  
Driveway or Sidewalk
- XX Distance from Face  
of Sidewalk to EOP

MATCHLINE SEE ABOVE RIGHT

MATCHLINE STA 108+25.00  
SEE SHEET 18

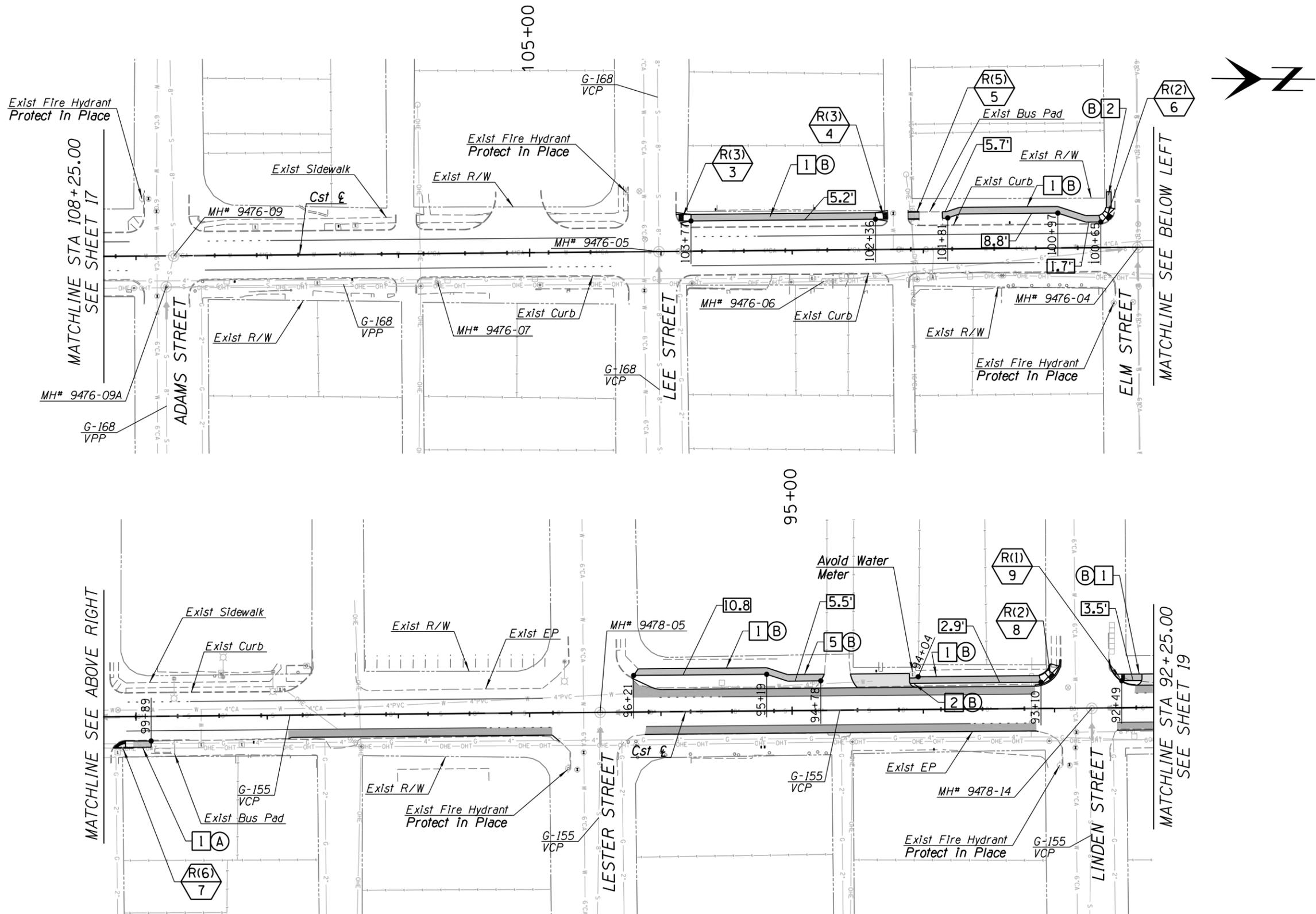


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**SIDEWALK PLAN SHEET**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		17 OF 39			
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD					
	DRWN. BY	ABB	11/13	REF.	SCALE: 1" = 40'
	DSGN. BY	ABB	11/13		
	CHKD. BY	JAS	11/13	PLAN NO.	x-2013-xxx



**LEGEND**

**R(T)**  
X  
New Access Ramp (Type)  
Reference No.

**Ramp Type:**

1 - Detail F  
2 - Std Dtl 207, Sht 1  
3 - Std Dtl 207, Sht 4A  
5 - Detail H  
6 - Detail I

- 1** 5' Concrete Sidewalk  
(4" Thick - Std Dtl 200)
- 2** 4' Concrete Sidewalk  
(4" Thick - Std Dtl 200)
- 3** 5" Asphalt Sidewalk  
(3" Thick)
- 4** 4" Asphalt Sidewalk  
(3" Thick)
- 5** New Bus Pad  
(6" Thick)  
See Plan for Dimensions
- (A)** Sidewalk to Abut EOP
- (B)** Transition to Match  
Driveway or Sidewalk
- XX** Distance from Face  
of Sidewalk to EOP

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

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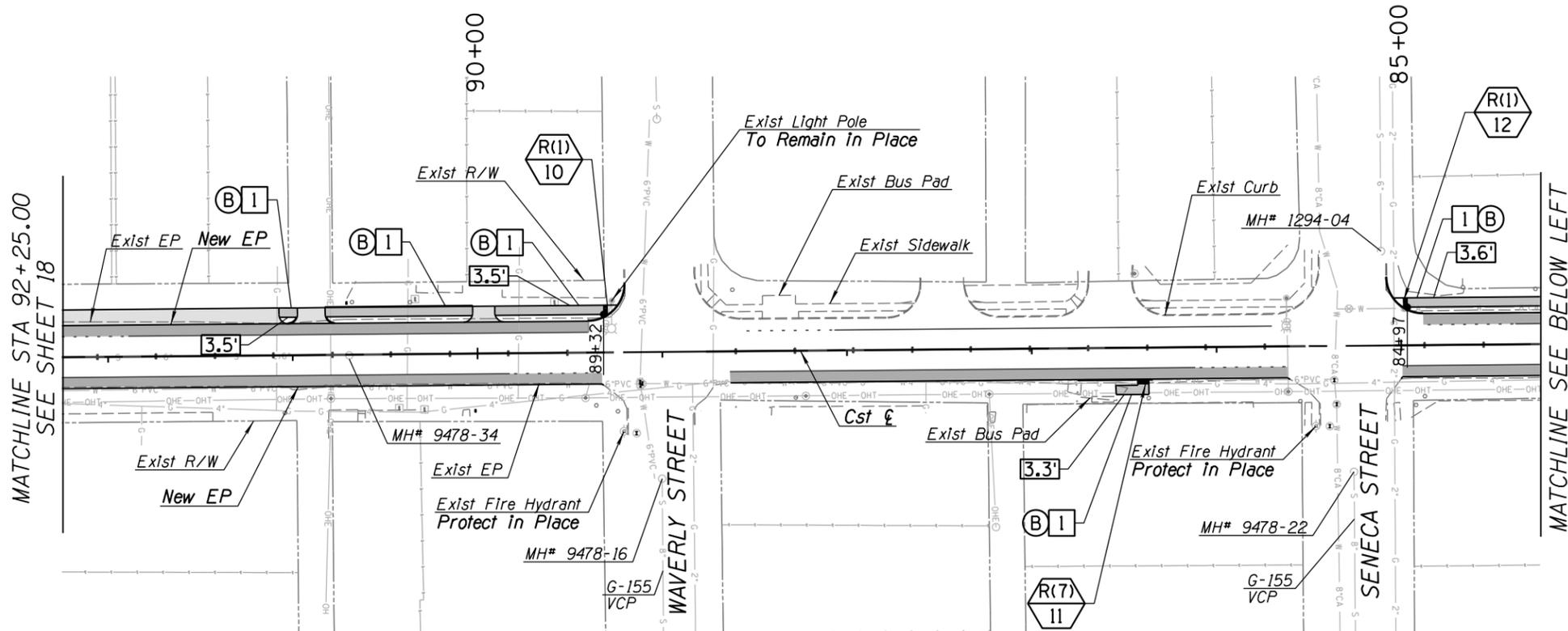
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**SIDEWALK PLAN SHEET**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		18			
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD		OF 39			
	DRWN. BY	ABB	11/13	REF.	SCALE: 1" = 40'
	DSGN. BY	ABB	11/13		
	CHKD. BY	JAS	11/13	PLAN NO.	x-2013-xxx



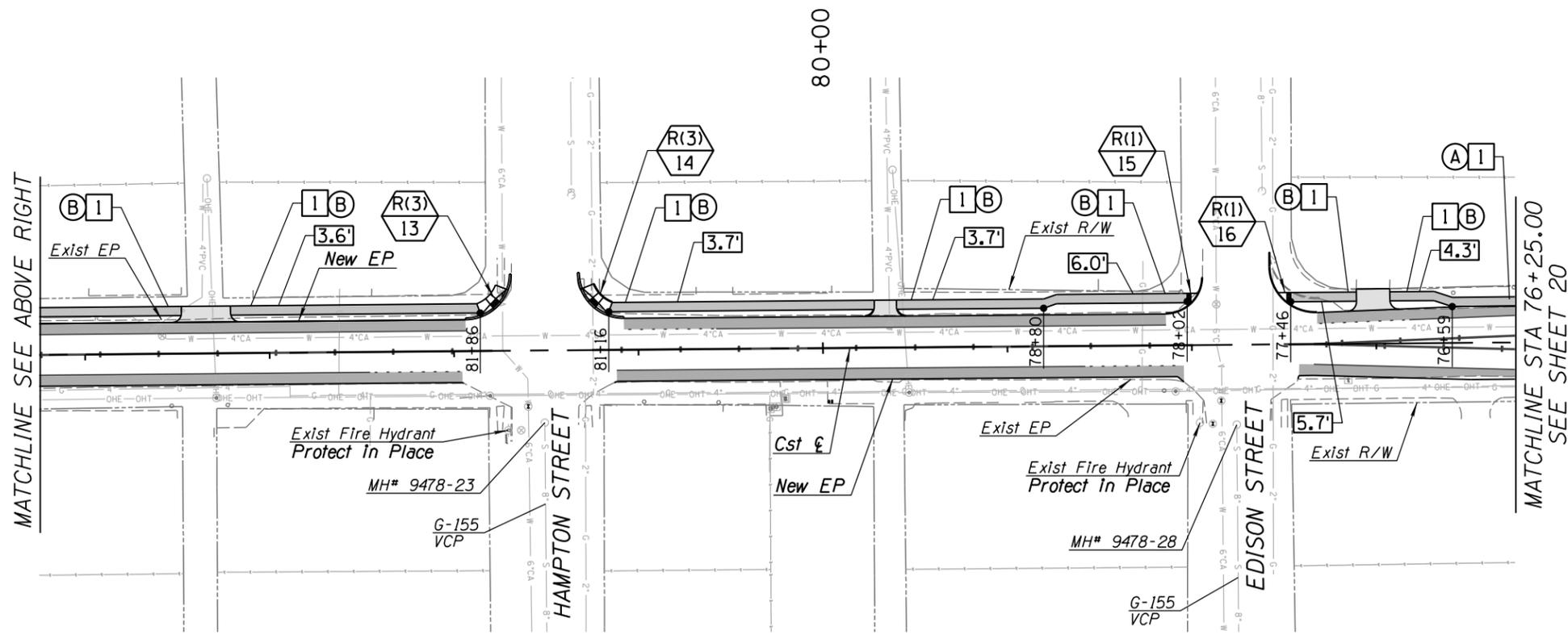
**LEGEND**

**R(T)**  
X  
New Access Ramp (Type)  
Reference No.

**Ramp Type:**

- 1 - Detail F
- 2 - Std Dtl 207, Sht 1
- 3 - Std Dtl 207, Sht 4A
- 7 - Detail J

- 1** 5' Concrete Sidewalk  
(4" Thick - Std Dtl 200)
- 2** 4' Concrete Sidewalk  
(4" Thick - Std Dtl 200)
- 3** 5" Asphalt Sidewalk  
(3" Thick)
- 4** 4" Asphalt Sidewalk  
(3" Thick)
- 5** New Bus Pad  
(6" Thick)  
See Plan for Dimensions
- A** Sidewalk to Abut EOP
- B** Transition to Match  
Driveway or Sidewalk
- XX** Distance from Face  
of Sidewalk to EOP



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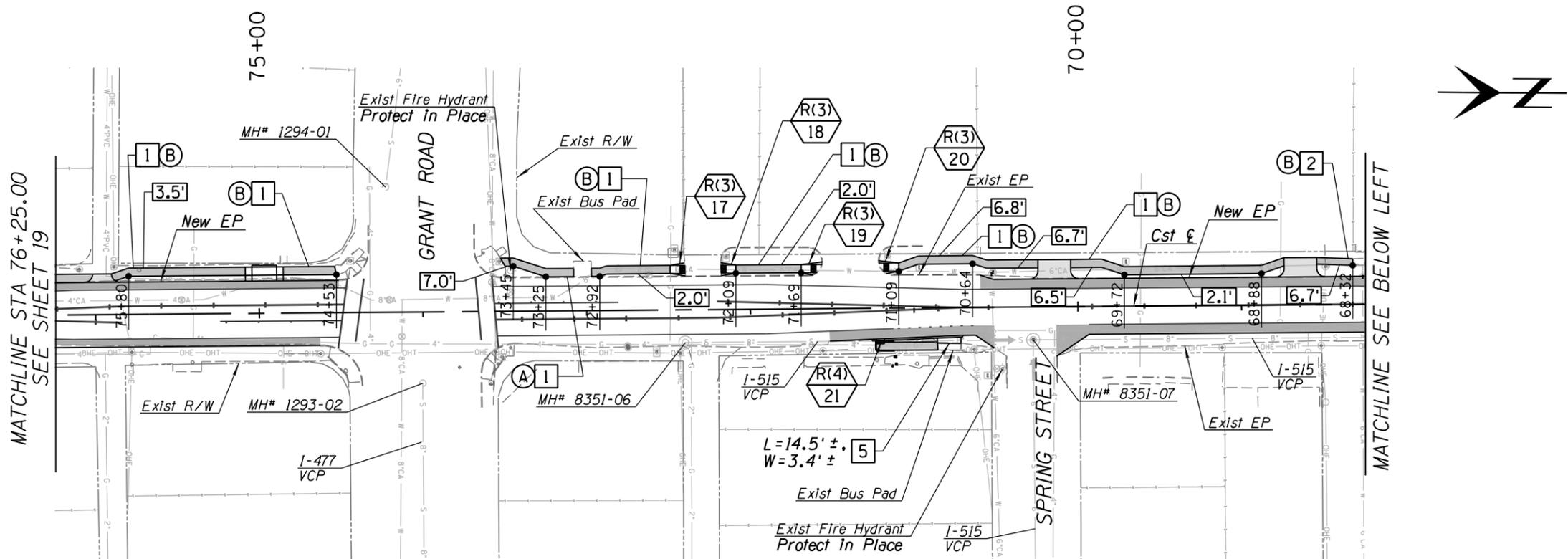
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**SIDEWALK PLAN SHEET**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		19 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD		
CITY OF TUCSON	DRWN. BY: ABB DSGN. BY: ABB CHKD. BY: JAS	11/13 11/13 11/13
REF. _____ SCALE: 1" = 40'		PLAN NO. x-2013-xxx



**LEGEND**

**R(T)**  
X  
New Access Ramp (Type)  
Reference No.

**Ramp Type:**

1 - Detail F  
2 - Std Dtl 207, Sht 1  
3 - Std Dtl 207, Sht 4A  
4 - Detail G

**1** 5' Concrete Sidewalk  
(4" Thick - Std Dtl 200)

**2** 4' Concrete Sidewalk  
(4" Thick - Std Dtl 200)

**3** 5" Asphalt Sidewalk  
(3" Thick)

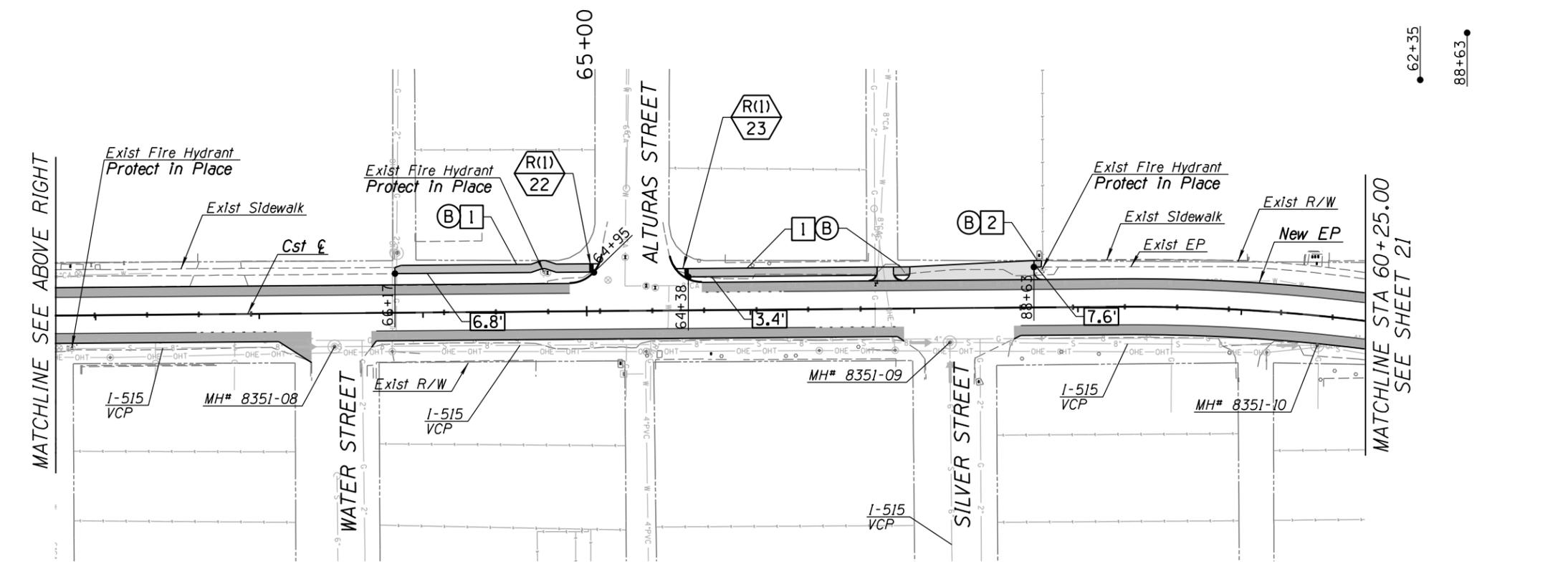
**4** 4" Asphalt Sidewalk  
(3" Thick")

**5** New Bus Pad  
(6" Thick)  
See Plan for Dimensions

**(A)** Sidewalk to Abut EOP

**(B)** Transition to Match  
Driveway or Sidewalk

**XX** Distance from Face  
of Sidewalk to EOP



62+35  
88+63



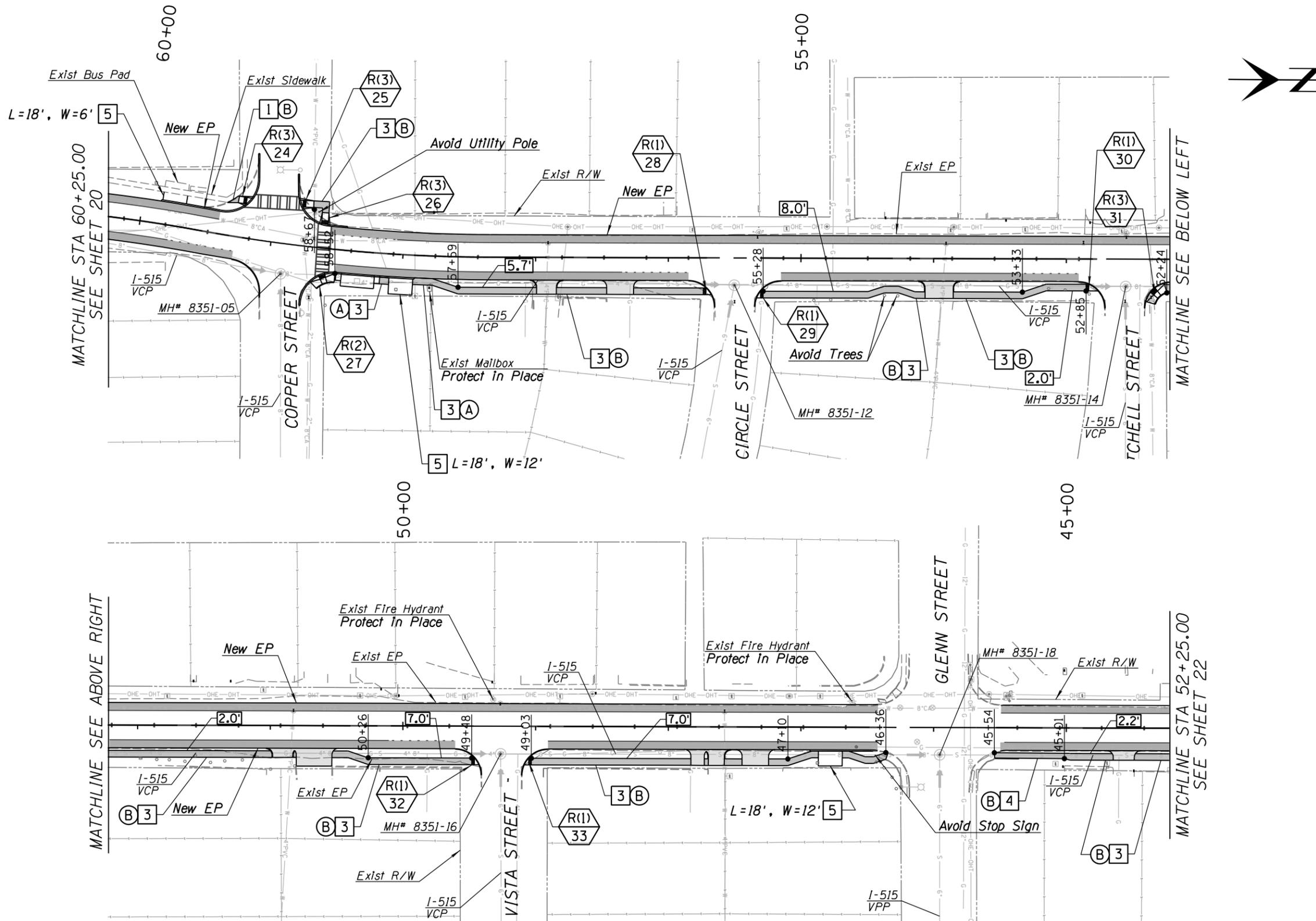
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**SIDEWALK PLAN SHEET**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		20 OF 39			
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD					
CITY OF TUCSON	DRWN. BY	ABB	11/13	REF.	SCALE: 1" = 40'
	DSGN. BY	ABB	11/13		
	CHKD. BY	JAS	11/13	PLAN NO.	x-2013-xxx



**LEGEND**

**R(T)**  
X  
New Access Ramp (Type)  
Reference No.

**Ramp Type:**

- 1 - Detail F
- 2 - Std Dtl 207, Sht 1
- 3 - Std Dtl 207, Sht 4A
- 4 - Detail G
- 5 - Detail H

- 1** 5' Concrete Sidewalk  
(4" Thick - Std Dtl 200)
- 2** 4' Concrete Sidewalk  
(4" Thick - Std Dtl 200)
- 3** 5" Asphalt Sidewalk  
(3" Thick)
- 4** 4" Asphalt Sidewalk  
(3" Thick)
- 5** New Bus Pad  
(6" Thick)  
See Plan for Dimensions
- (A)** Sidewalk to Abut EOP
- (B)** Transition to Match  
Driveway or Sidewalk
- XX** Distance from Face  
of Sidewalk to EOP

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

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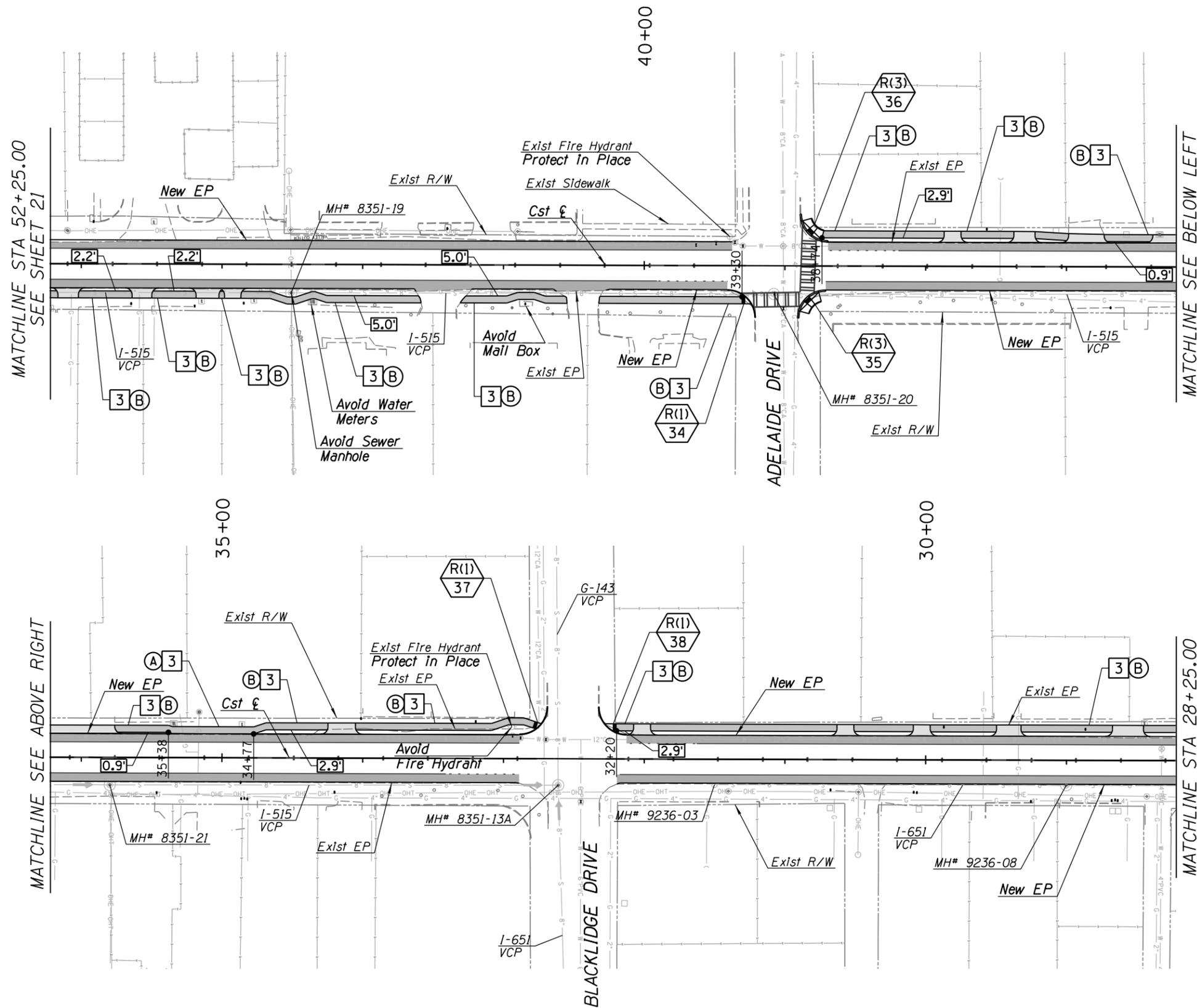


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**SIDEWALK PLAN SHEET**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		21			
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD		OF 39			
	DRWN. BY	ABB	11/13	REF.	SCALE: 1" = 40'
	DSGN. BY	ABB	11/13		
	CHKD. BY	JAS	11/13	PLAN NO.	x-2013-xxx



**LEGEND**

New Access Ramp (Type)  
Reference No.

Ramp Type:

1 - Detail F  
2 - Std Dtl 207, Sht 1  
3 - Std Dtl 207, Sht 4A

- 5' Concrete Sidewalk  
(4" Thick - Std Dtl 200)
- 4' Concrete Sidewalk  
(4" Thick - Std Dtl 200)
- 5" Asphalt Sidewalk  
(3" Thick)
- 4" Asphalt Sidewalk  
(3" Thick)
- New Bus Pad  
(6" Thick)  
See Plan for Dimensions
- Sidewalk to Abut EOP
- Transition to Match  
Driveway or Sidewalk
- Distance from Face  
of Sidewalk to EOP

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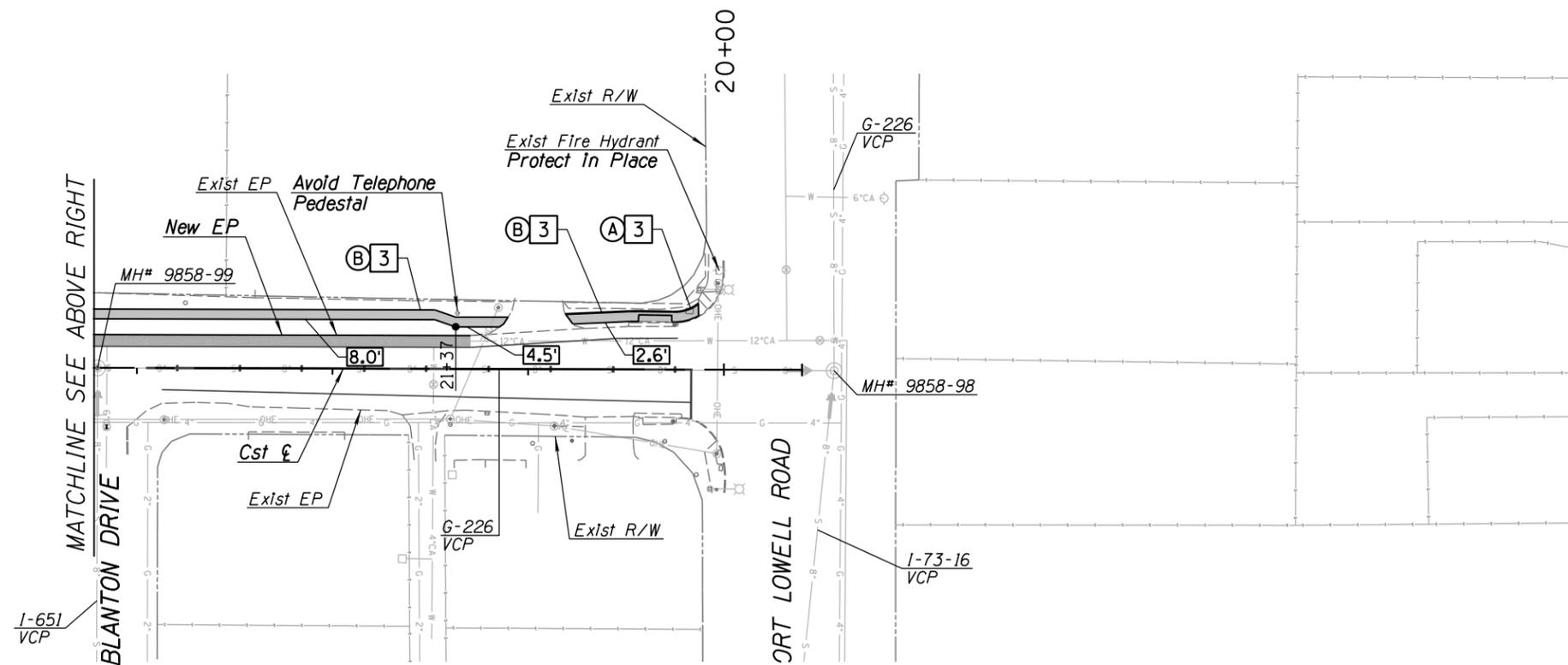
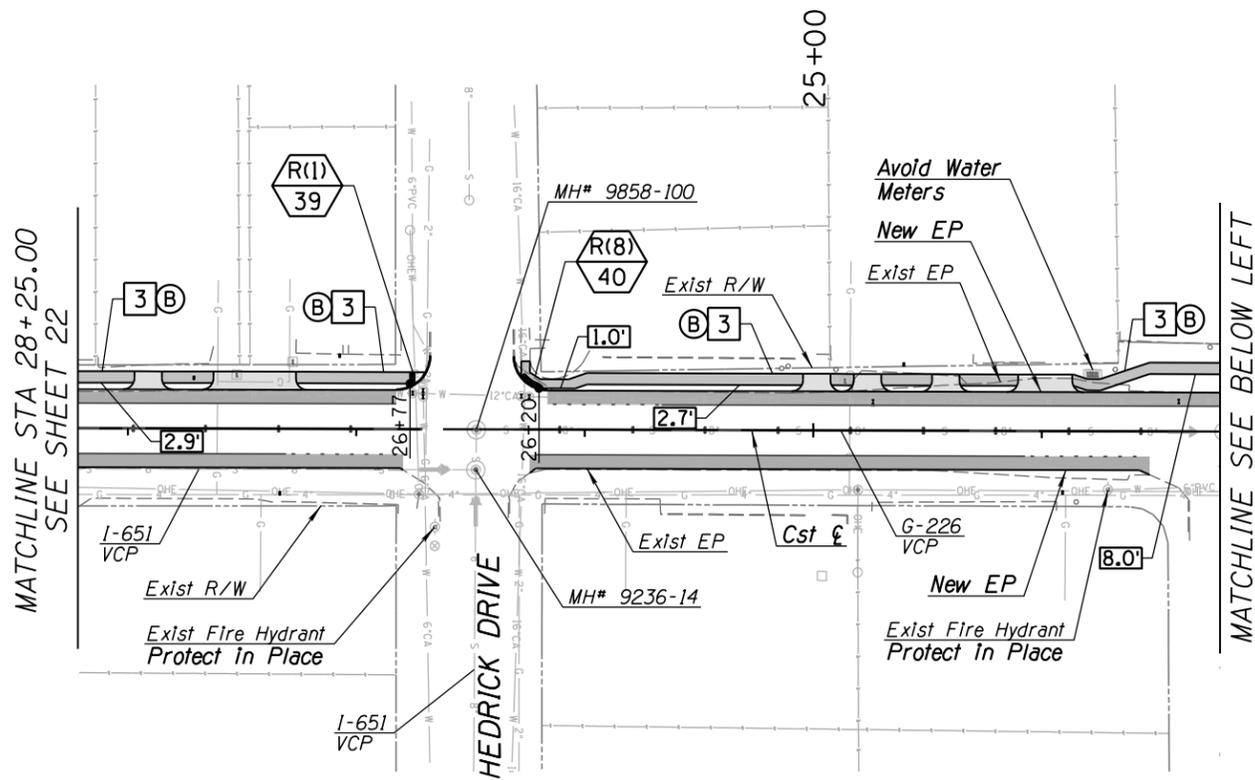
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**SIDEWALK PLAN SHEET**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		22 OF 39		
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD				
CITY OF TUCSON	DRWN. BY	ABB	11/13	REF. _____ SCALE: 1" = 40'
	DSGN. BY	ABB	11/13	
	CHKD. BY	JAS	11/13	
PLAN NO. _____				x-2013-xxx



**LEGEND**

**R(T)**  
**X** New Access Ramp (Type)  
Reference No.

**Ramp Types:**

- 1 - Detail F
- 2 - Std Dtl 207, Sht 1
- 3 - Std Dtl 207, Sht 4A
- 7 - Detail K

- 1** 5' Concrete Sidewalk  
(4" Thick - Std Dtl 200)
- 2** 4' Concrete Sidewalk  
(4" Thick - Std Dtl 200)
- 3** 5" Asphalt Sidewalk  
(3" Thick)
- 4** 4" Asphalt Sidewalk  
(3" Thick)
- 5** New Bus Pad  
(6" Thick)  
See Plan for Dimensions
- A** Sidewalk to Abut EOP
- B** Transition to Match  
Driveway or Sidewalk
- XX** Distance from Face  
of Sidewalk to EOP

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

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12/13/2013  
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NO.	DATE	REVISION	BY	CHKD.	APPR.

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CONSTRUCTION  
OR RECORDING

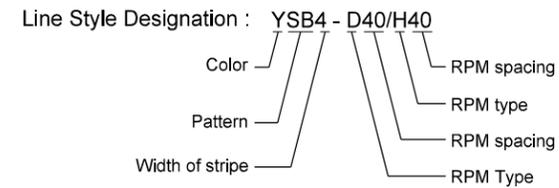
**SIDEWALK PLAN SHEET**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			23 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD			
	DRWN. BY	ABB	11/13
	DSGN. BY	ABB	11/13
	CHKD. BY	JAS	11/13
REF. _____			SCALE: 1" = 40'
PLAN NO. _____			x-2013-xxx

# PAVEMENT MARKINGS GENERAL NOTES

- All pavement markings shall conform to current Pima County / City of Tucson (PC/COT) Standards and Specifications. The Contractor shall refer to the PCDOT and COTDOT Pavement Marking Design Manual, 2008 Revision.
- The permanent pavement markings may be modified as directed by the Traffic Engineer.
- The design speed for Park Ave is: 35mph. The posted speed limit is: 35mph. The
- All lane dimensions are from center of lane line, center of double lane line, face of curb, or edge of pavement unless otherwise noted.
- The pavement marking drawings are schematic only, unless control data is provided. the contractor shall follow all dimensions, details, and standards when installing pavement striping, legends and markers.
- The final Longitudinal Striping shall be 60 mil (0.060") thick Hot-Sprayed Thermoplastic ReflectORIZED Striping placed over the temporary striping within 14 to 30 calendar days after completion of the final pavement surface, or as directed by the Traffic Engineer. All other markings shall be applied at the same time. Temporary striping shall be painted.
- All final Transverse Markings shall be hot sprayed 90 mil Thermoplastic Striping (0.090"). All Pavement Arrows and Legends shall be 90 mil extruded Thermoplastic or Preformed applications as required by Special Provisions.
- The Contractor shall be responsible for the layout and installation of pavement markings. The layout and inspection of all pavement markings shall be approved by the Traffic Engineer prior to the application of materials.
- The Contractor shall clean the roadway surface to the satisfaction of the Traffic Engineer by sweeping and air-jet blowing immediately prior to the placement of all pavement markings. The temperature shall not be less than 50 degrees F. For the placement of Hot Sprayed Thermoplastic striping, and 40 degrees F. For the placement of Raised Pavement Markers (RPMs).
- All Raised Pavement Markers (RPMs) shall be installed so that the reflective face of each marker is facing the direction of traffic flow. Type C pavement markers shall be installed so that the clear reflective face of each marker is facing approaching traffic and perpendicular to the direction of traffic flow.
- All removal of existing pavement markings shall be accomplished in accordance with Section 701 of the PC/COT Standard Specifications. painting over existing striping does not constitute approved striping obliteration.
- The Engineer of record shall be required to produce as-built striping plans within 90 days of striping completion.
- Blue Raised Pavement Markers shall be placed adjacent to Fire Hydrants as shown on sheet 7-1 of the PC/COT Pavement Marking Design Manual.
- Final inspection/acceptance of pavement markings shall be performed by the Traffic Engineer.

## PAVEMENT MARKINGS LEGEND



Line Series:

- WB - White Broken
- WS - White Solid
- WG - White Guide (Dotted)
- YDS - Yellow Double Solid
- YB - Yellow Broken
- YSB - Yellow Solid and Broken
- YS - Yellow Solid
- YDB - Yellow Double Broken

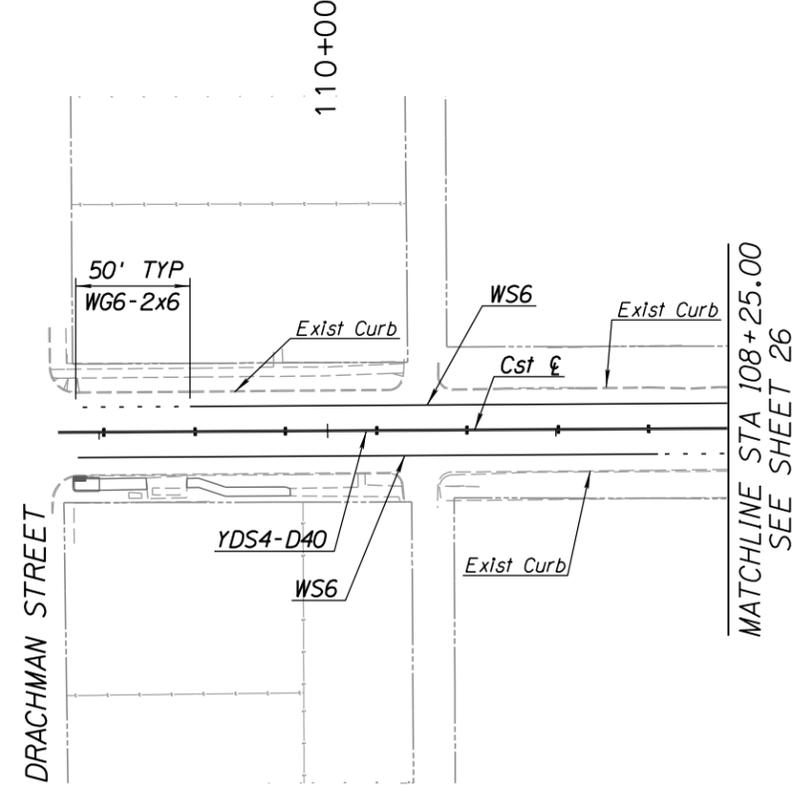
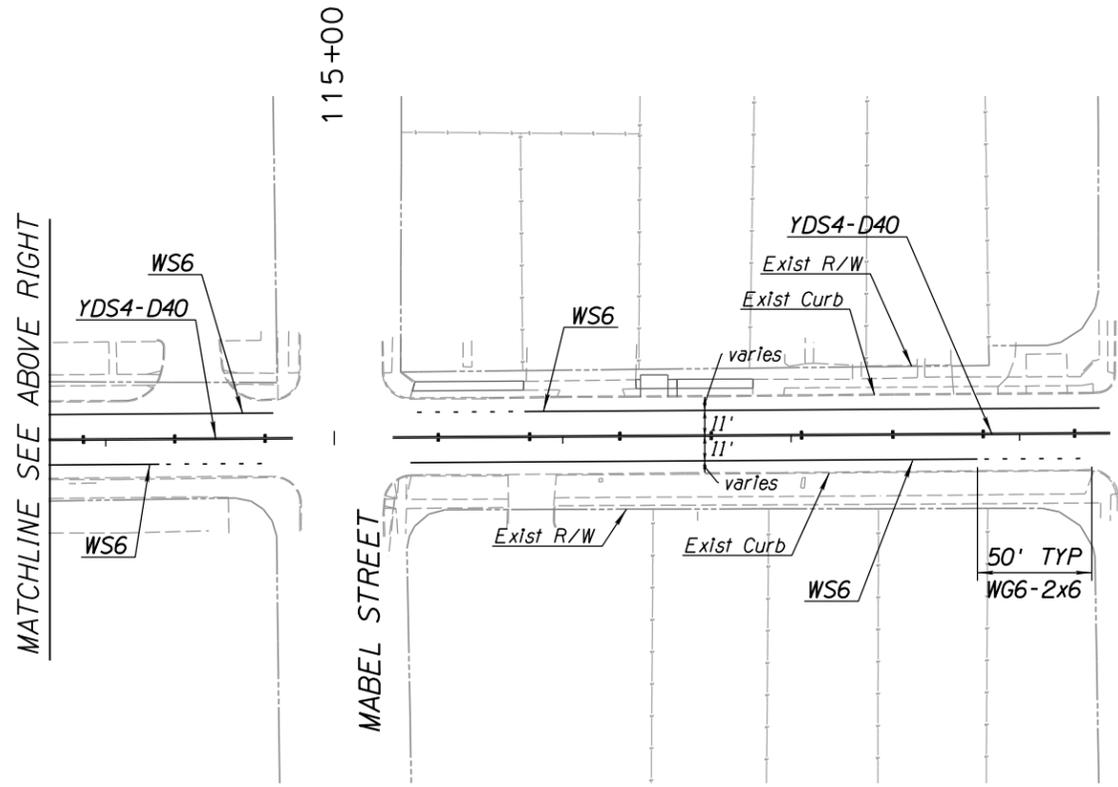
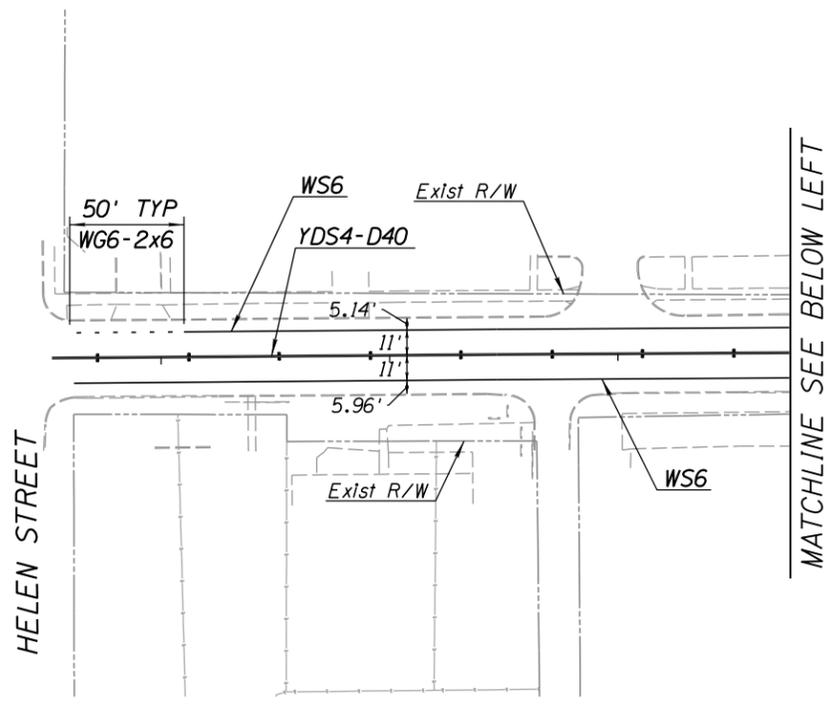
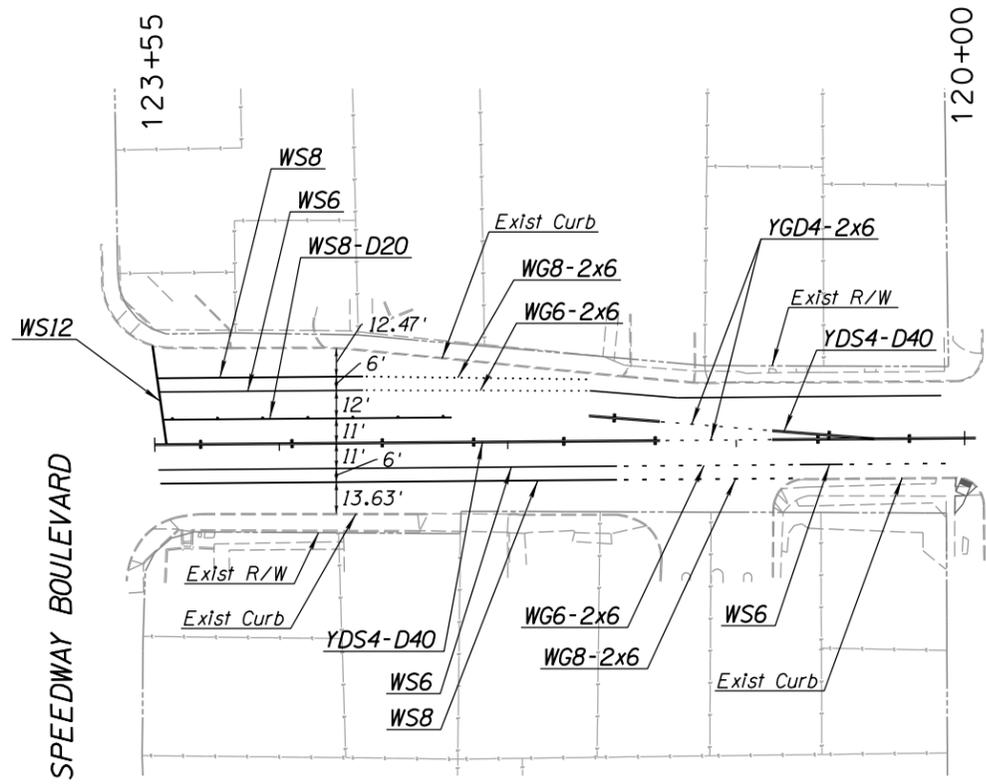
APPROXIMATE PAVEMENT MARKING QUANTITIES			
BID ITEM	ITEM	UNIT	QUANTITY
7040003	PAVEMENT MARKING (WHITE THERMOPLASTIC) (0.060")	L FT	25,054
7040004	PAVEMENT MARKING (YELLOW THERMOPLASTIC) (0.060")	L FT	18,861
7040072	PAVEMENT MARKING (TRANSVERSE) (THERMOPLASTIC) (ALKYD) (0.090")	L FT	3,510
7050019	PAVEMENT MARKING, PREFORMED, TYPE I, LEGEND	EA	
7050019	PAVEMENT MARKING, PREFORMED, TYPE I, LEGEND	EA	
7050023	PAVEMENT MARKING, PREFORMED, TYPE I, SINGLE ARROW	EA	XXX
7050026	PAVEMENT MARKING, PREFORMED, TYPE I, LEGEND (ONLY)	EA	
7060013	PAVEMENT MARKER, RAISED, TYPE D	EA	475
7060018	PAVEMENT MARKER, RAISED, TYPE G	EA	16
7060019	PAVEMENT MARKER, RAISED, TYPE H	EA	
-	PAVEMENT MARKER, RAISED, TYPE F	EA	11
-	PAVEMENT MARKING PAINTED (WHITE TEMPORARY)	L FT	28,564
-	PAVEMENT MARKING PAINTED (YELLOW TEMPORARY)	L FT	25,054
7080301	PAINT BULL NOSE	EA	



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PAVEMENT MARKING GENERAL NOTES			
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			24 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD			
	DRWN. BY	ABB	11/13
	DSGN. BY	ABB	11/13
	CHKD. BY	JAS	11/13
REF.	SCALE:		
PLAN NO.	x-2013-xxx		



12/13/2013  
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**STRIPING PLAN**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				25 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD				
CITY OF TUCSON	DRWN. BY	ABB	11/13	REF. _____ SCALE: 1" = 40'
	DSGN. BY	ABB	11/13	
	CHKD. BY	JAS	11/13	

MATCHLINE STA 108+25.00  
SEE SHEET 25

ADAMS STREET

105+00

LEE STREET

ELM STREET

MATCHLINE SEE BELOW LEFT



MATCHLINE SEE ABOVE RIGHT

100+00

95+00

LESTER STREET

LINDEN STREET

MATCHLINE STA 92+25.00  
SEE SHEET 27

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

**ARIZONA 811**  
Arizona One Strike, Inc.

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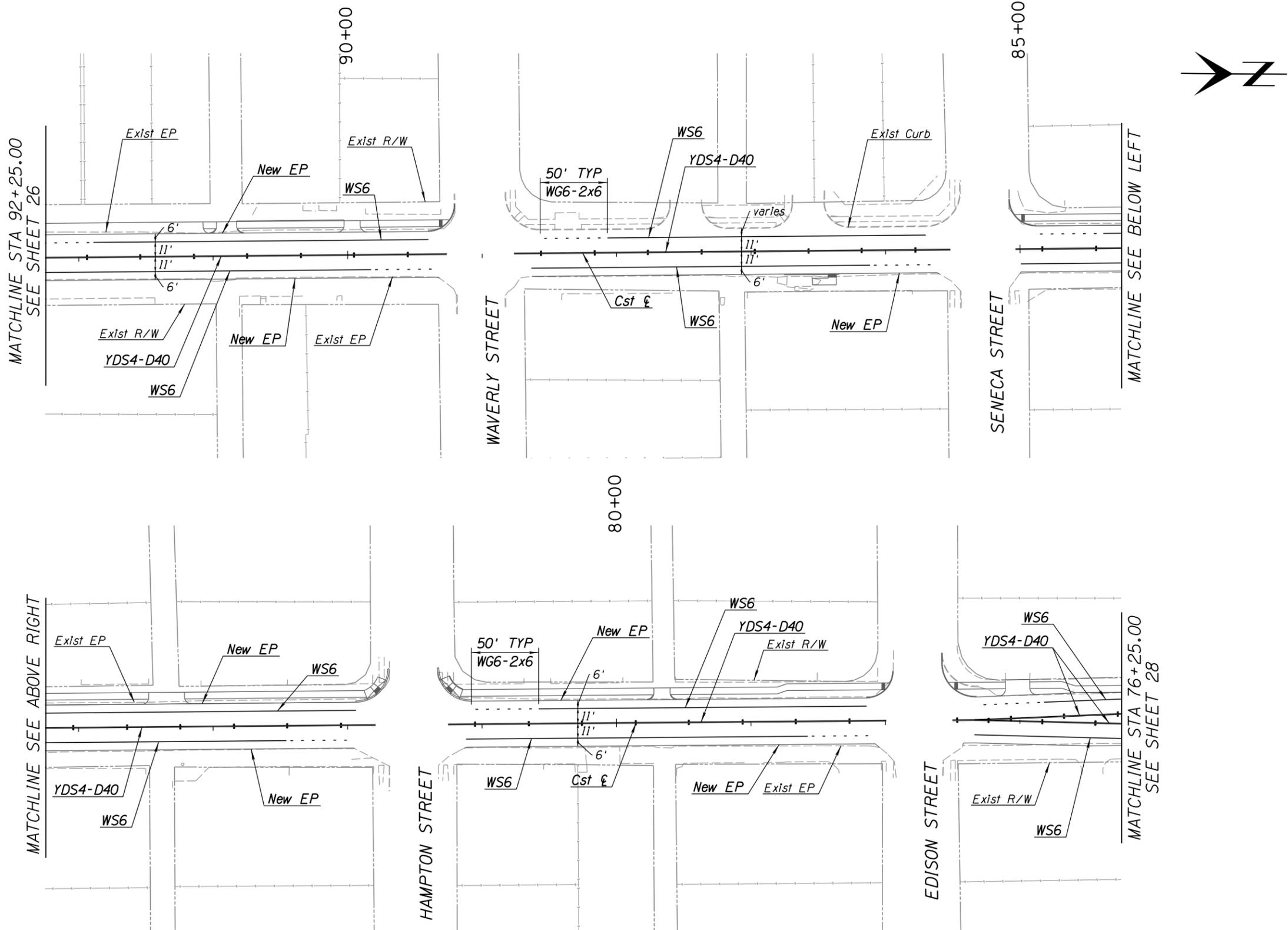
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**STRIPING PLAN**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				26 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD				
CITY OF TUCSON	DRWN. BY	ABB	11/13	REF. _____ SCALE: 1" = 40'
	DSGN. BY	ABB	11/13	
	CHKD. BY	JAS	11/13	



MATCHLINE STA 92+25.00  
SEE SHEET 26

MATCHLINE SEE BELOW LEFT

MATCHLINE STA 76+25.00  
SEE SHEET 28

MATCHLINE SEE ABOVE RIGHT

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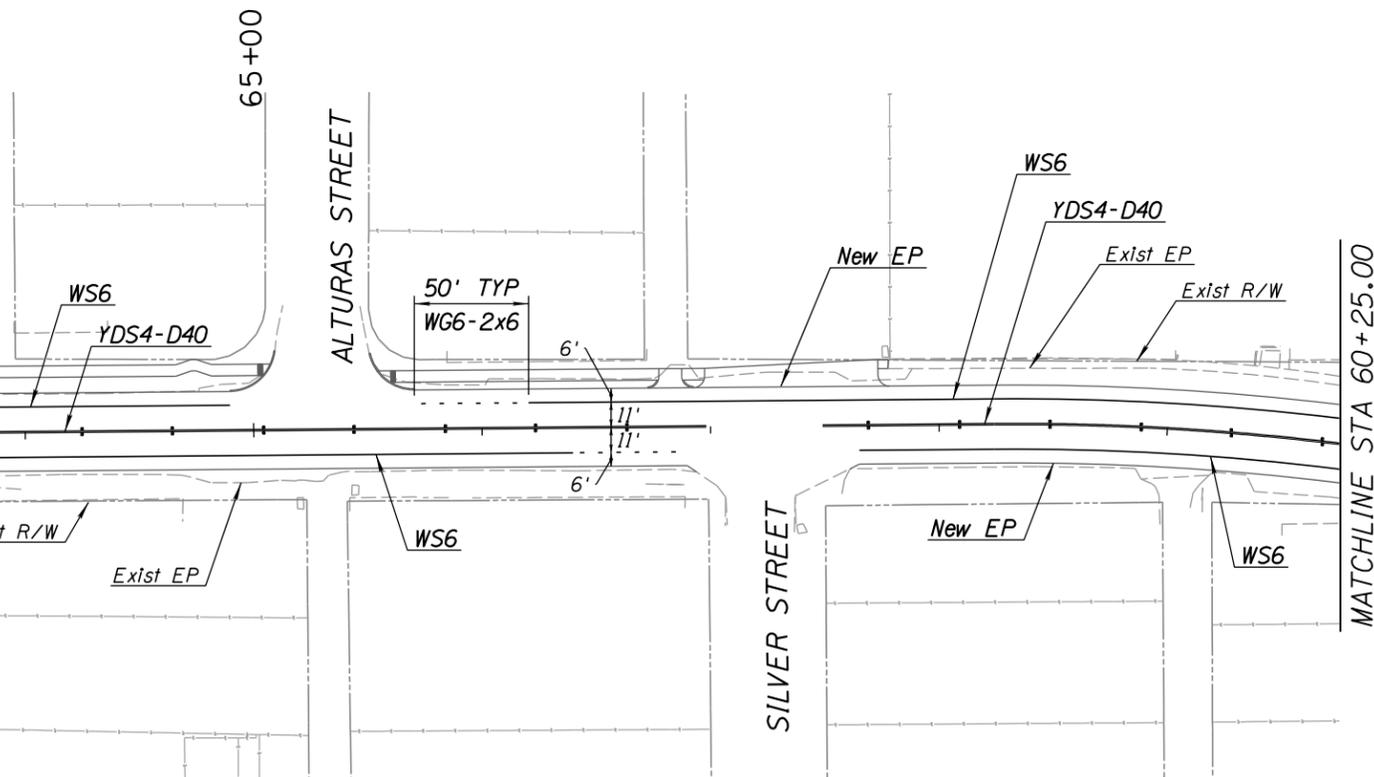
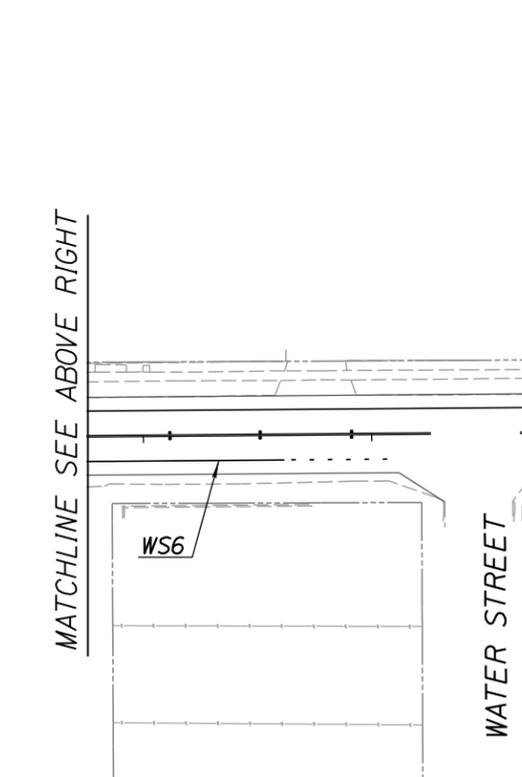
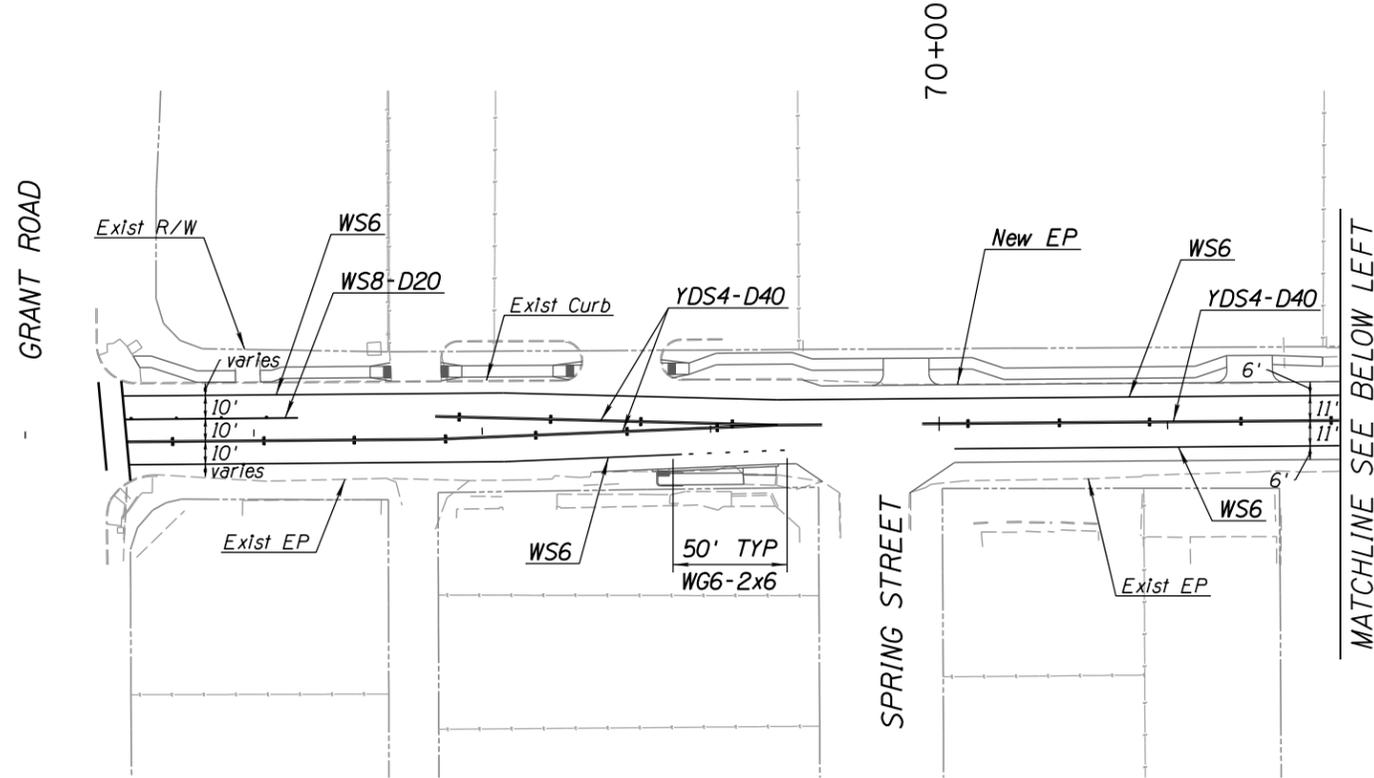
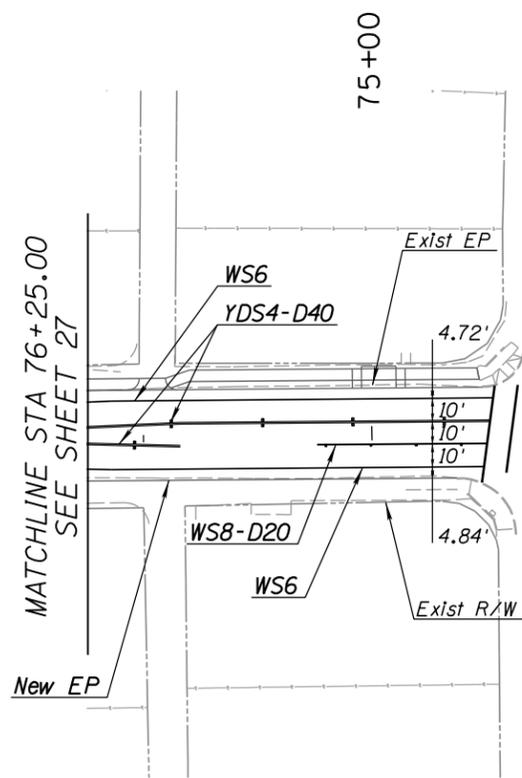
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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				27 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD				
CITY OF TUCSON	DRWN. BY	ABB	11/13	REF. _____ SCALE: 1" = 40'
	DSGN. BY	ABB	11/13	
	CHKD. BY	JAS	11/13	



MATCHLINE SEE ABOVE RIGHT

MATCHLINE STA 60+25.00  
SEE SHEET 29



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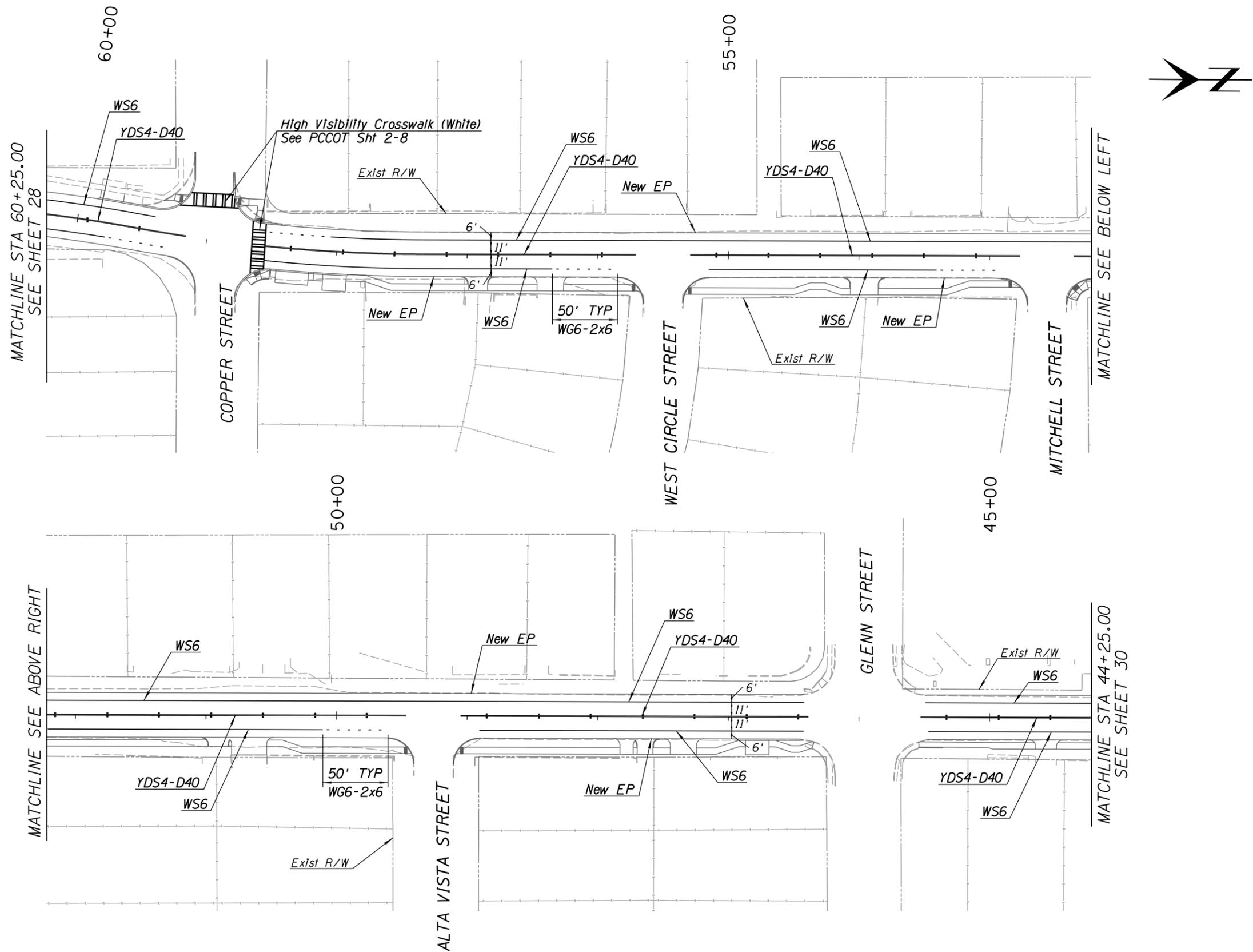
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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		28
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD		OF 39
	DRWN. BY: ABB	11/13
	DSGN. BY: ABB	11/13
	CHKD. BY: JAS	11/13
REF.:	SCALE: 1" = 40'	PLAN NO. x-2013-xxx



MATCHLINE STA 60+25.00  
SEE SHEET 28

MATCHLINE SEE BELOW LEFT

MATCHLINE SEE ABOVE RIGHT

MATCHLINE STA 44+25.00  
SEE SHEET 30



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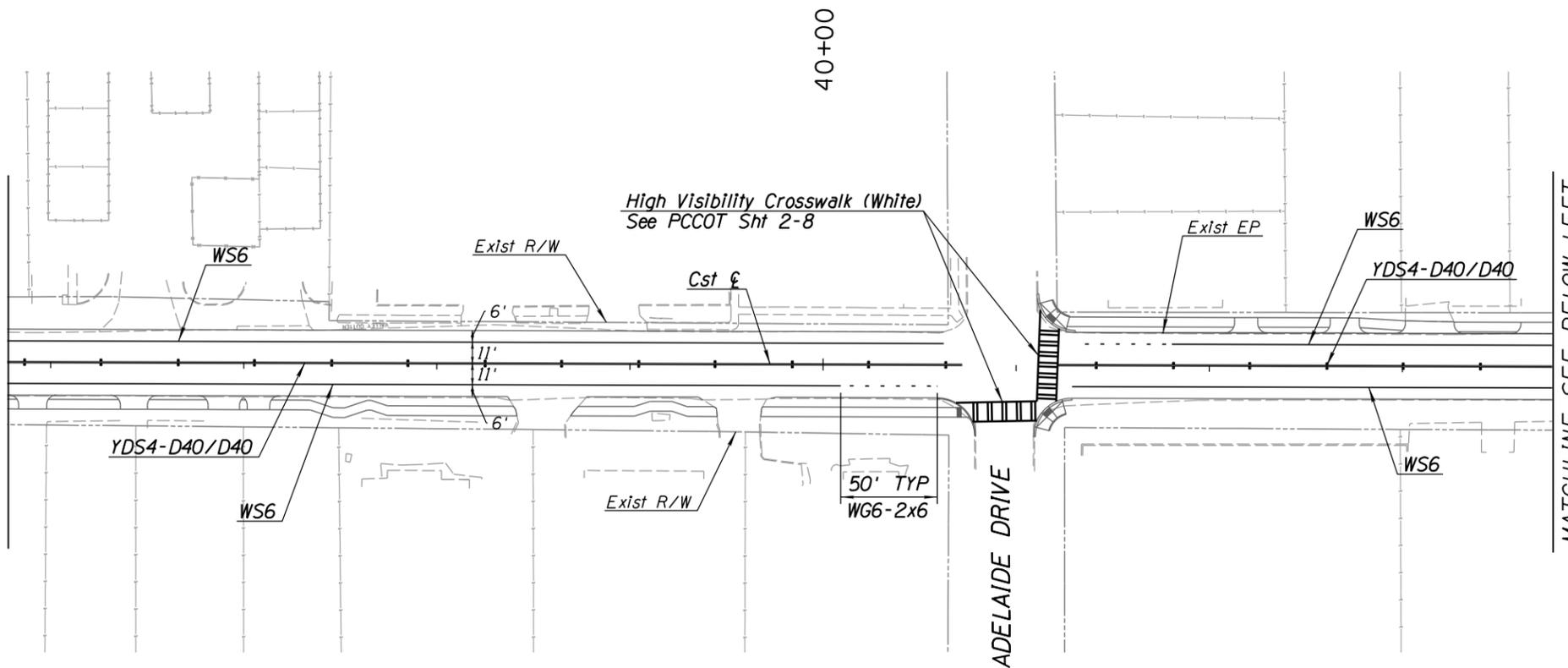
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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				29 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD				
CITY OF TUCSON	DRWN. BY	ABB	11/13	REF. _____ SCALE: 1" = 40'
	DSGN. BY	ABB	11/13	
	CHKD. BY	JAS	11/13	

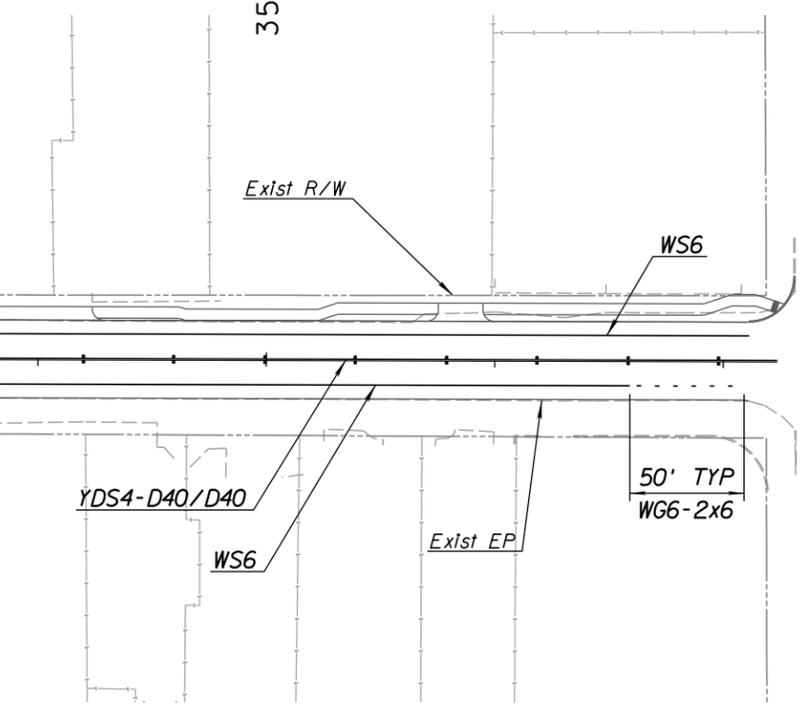
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SEE SHEET 29



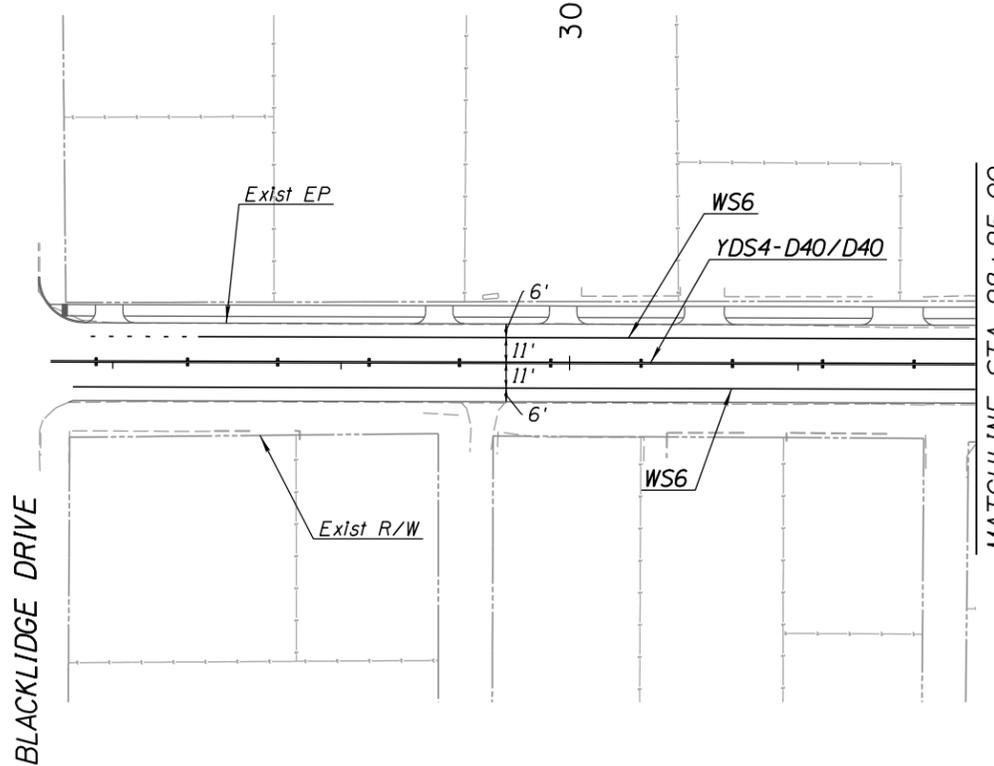
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35+00

MATCHLINE SEE ABOVE RIGHT



30+00



MATCHLINE STA 28+25.00  
SEE SHEET 31

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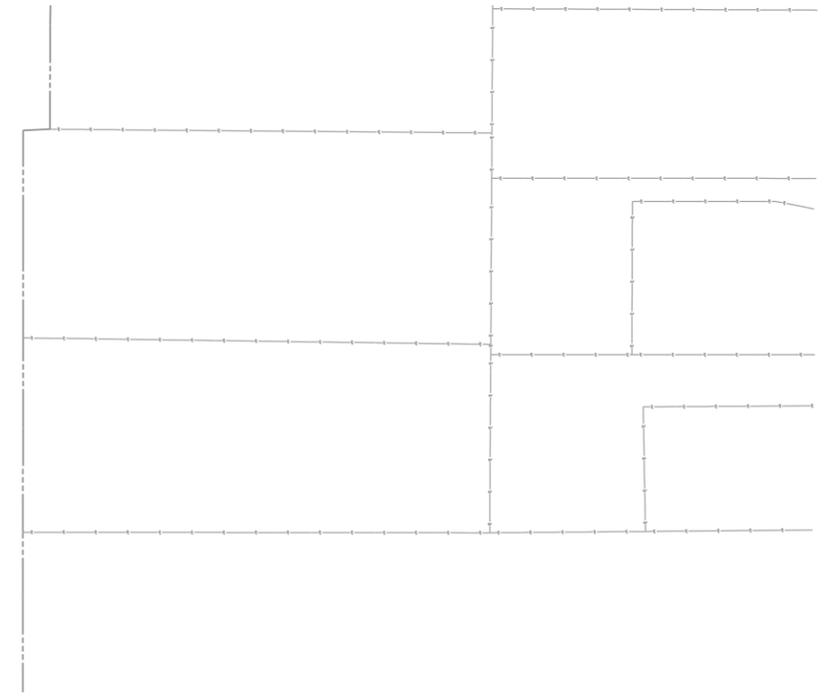
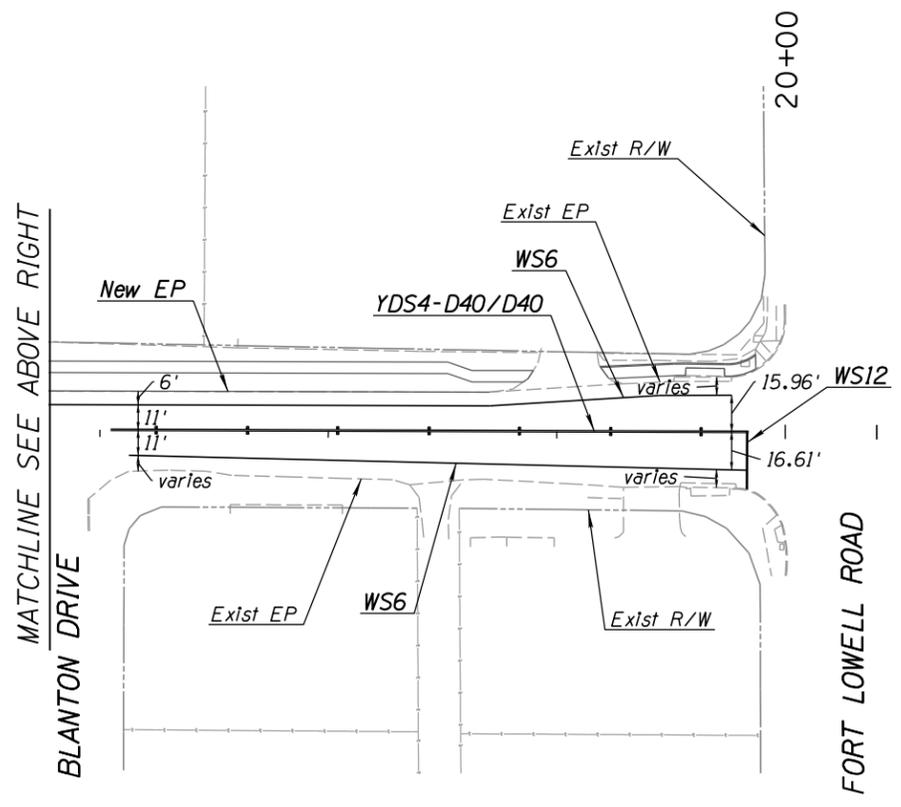
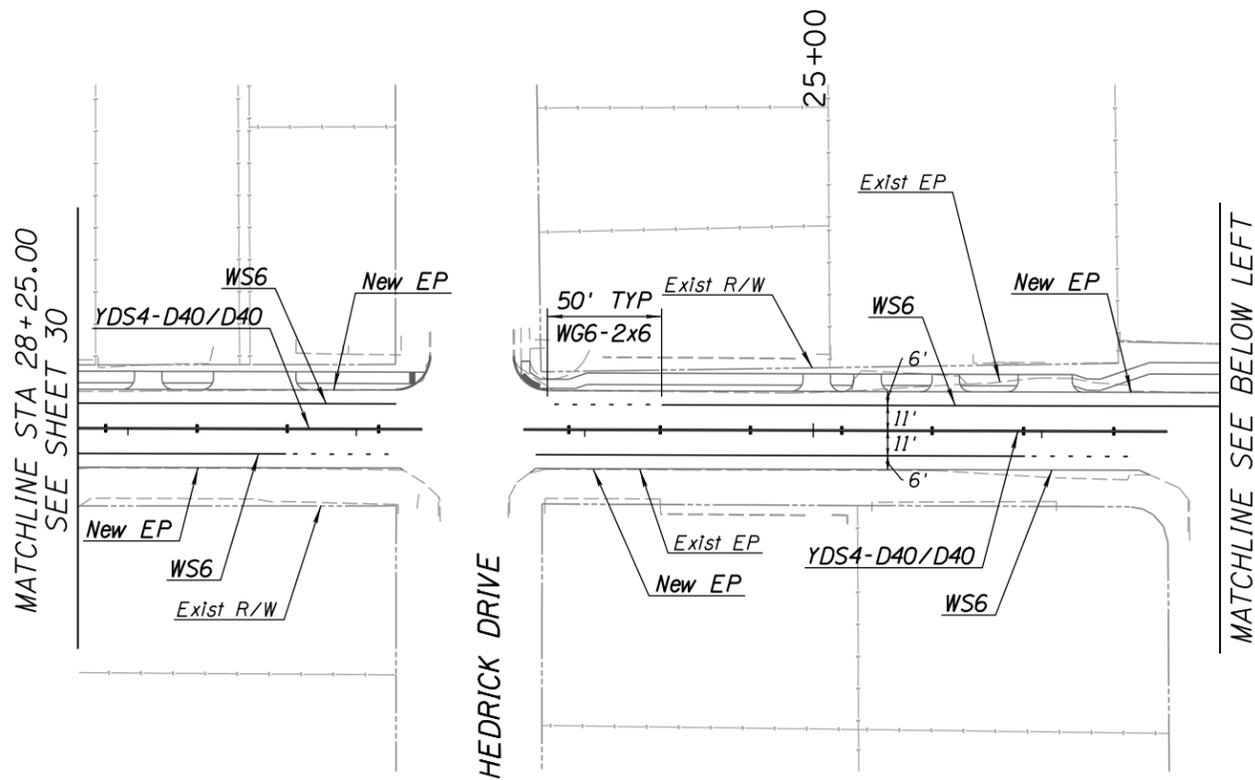
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**STRIPING PLAN**

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				30 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD				
<p>CITY OF TUCSON</p>	DRWN. BY	ABB	11/13	REF. _____ SCALE: 1" = 40'
	DSGN. BY	ABB	11/13	
	CHKD. BY	JAS	11/13	



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<b>STRIPING PLAN</b>			
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			31 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD			
CITY OF TUCSON	DRWN. BY	ABB	11/13
	DSGN. BY	ABB	11/13
	CHKD. BY	JAS	11/13
REF.	SCALE: 1" = 40'		PLAN NO. x-2013-xxx

# WATER SYSTEM MODIFICATION NOTES

**1 Acceptance Conditions:**

- a. This project is accepted by the City of Tucson water department for substantial concurrence with standard specifications and details.
- b. Acceptance of these plans is valid for 3 years after the date of the signature.
- c. The warrantee and guarantee durations for all water works on this project shall be two (2) years commencing on the date of final acceptance of the water work by the City of Tucson water department.

**2 Current Standards:**

- a. All water system modification construction works shall conform to the following standards and special provisions:
- b. The Pima County/City of Tucson standard specifications for public improvements, 2003 edition.
- c. The water system modifications special provisions for this project.

**3 Water System Modification Pre Construction Procedure:**

- a. The Contractor shall contact the City of Tucson water department construction section (791-2665), a minimum of three (3) days prior to any water work. The contractor shall refer to the City of Tucson Water Department Plan No. 4-075-2003.
- b. The City of Tucson water department construction section will schedule the time and place for the meeting.
- c. No water system construction shall begin until a "notice to proceed" has been issued by the City of Tucson water department.
- d. Any water work installed prior to the notice to proceed date shall be removed by the contractor at the contractors expense.

**4 Dimensions Slopes and Grades:**

- a. All dimensions, slopes and grades of existing water lines are taken from "as built" drawings. It shall be the contractors' responsibility to determine exact information before ordering any special fittings or equipment.

**5 Water Meters and Meter Boxes**

The contractor shall be responsible for all water meters and meter boxes in the construction area. This will include but not be limited to:

- a. **Removal and Installation:**  
During this operation meters shall be tagged with the correct address to ensure their reinstallation at the same location.
- b. **Protection of Meters:**  
At all times the contractor shall take precautions to avoid any damage to the meters. The contractor shall provide for their safe storage and the proper equipment for their handling.
- c. **Access to Meters:**  
The contractor shall maintain access to all in service meters during construction. At the close of the project the contractor shall ensure that all meters are left accessible and that all meter boxes are adjusted to final grade.

**6 Fire Protection Shut Down:**

Forty-eight (48) hours prior to shut-down of any fire hydrants or fire protection service lines the construction inspector with a written report indicating the location and duration of any fire hydrant or fire protection service shut downs. The contractor shall notify the city of Tucson water department construction inspector when fire hydrants or fire protection services are back in service.

**7 Maintain Service to Customers:**

The contractor shall be responsible for maintaining service to all water customers during construction. It shall be the contractor's responsibility to determine which services will be effected by this project. It may be necessary to accomplish tie-overs, re-connections, etc. while business customers are closed. If interruption of service is unavoidable the contractor shall notify the water inspector a minimum of 48 hours in advance to coordinate shut downs. Every effort shall be made to minimize disruption to the customer. If the contractor chooses to abandon any portion of the existing water supply system without concurrent construction as called for on the plans, the contractor shall provide any and all materials and construction of a temporary or permanent water system to maintain continued water service to customers at no additional cost.

**8 Special Use Water Permits:**

Prior to commencing work, the contractor shall apply for two special water use permits from the City of Tucson water department commercial section.

- a. **Construction Water Special Permit:**  
There will be no charge for this permit, but the contractor must pay the sum of \$30.00 plus tax as the estimated cost of the water to be used. This water may only be used for the trench settling, disinfect ion and testing.
- b. **Metered Fire-Hydrant Only Permit:**  
This non-transferable permit will entitle the contractor to use water through a meter from existing fire hydrants at approved locations. Water used under this permit is for general construction purposes such as dust control, site preparation, etc.

**9 New Material:**

All materials, fittings, and appurtenances called for on the plans, or required for a complete installation, shall be new. No refurbished items or materials will be allowed.

**10 Valve Boxes:**

The contractor shall be responsible for adjusting all new and existing water valve boxes to the finished grade per W-300.

**11 Marking Tape:**

If any existing detectable marking tape is disturbed or destroyed during construction, the contractor shall furnish and install appropriate new tape. There shall be no additional charge for this reinstallation.

**12 All materials, fittings, and appurtenances called for on the plans, or required for a complete installation, shall be new. No refurbished items or materials will be allowed.**

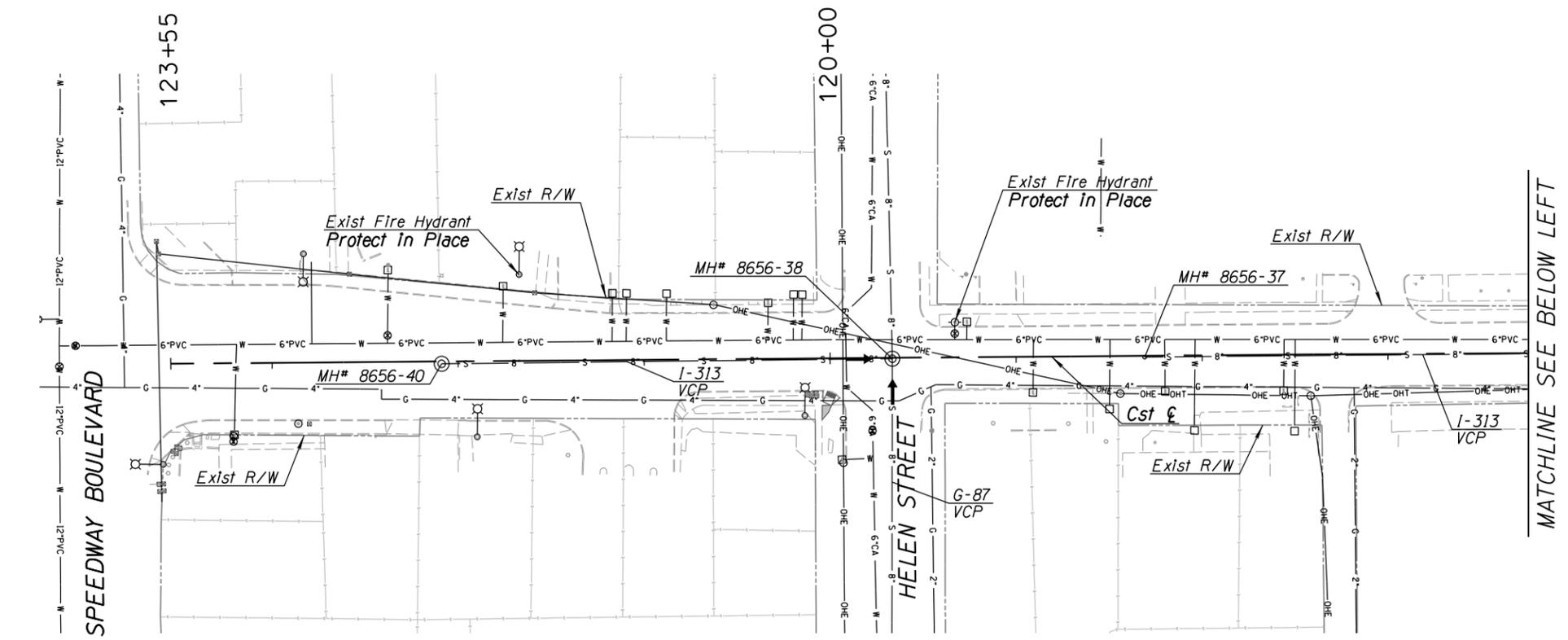
**13 At pole foundations close to existing water mains, maintain a minimum of five (5) feet horizontal distance from outside of foundation to the outside of pipe. Minimum horizontal separation between existing water mains and electrical conduit is five (5) feet from outside water line to outside of electric conduit. Minimum vertical separation is one (1) foot from outside water line to outside electrical conduit.**



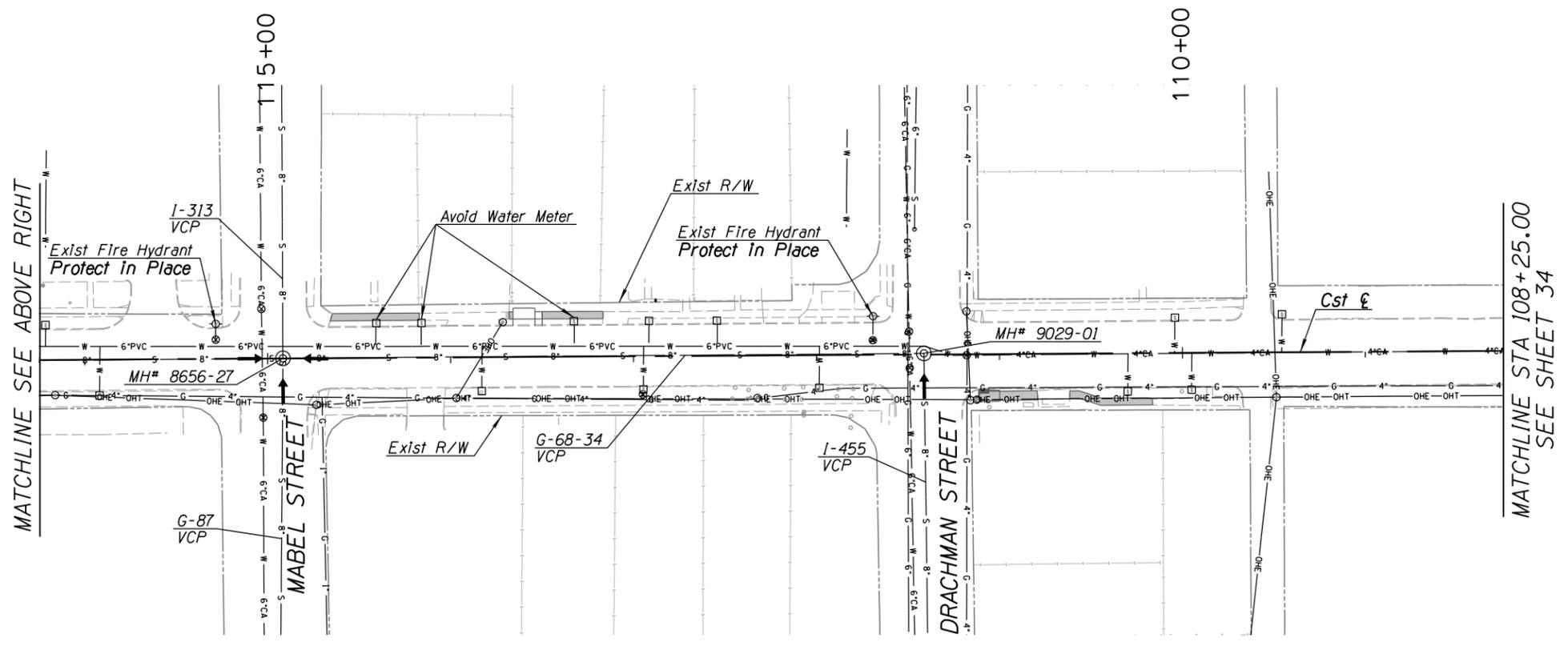
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WATER METER MODIFICATIONS NOTES			
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			32 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD			
CITY OF TUCSON	DRWN. BY	ABB	11/13
	DSGN. BY	ABB	11/13
	CHKD. BY	JAS	11/13
REF.	SCALE:		PLAN NO. x-2013-xxx



MATCHLINE SEE BELOW LEFT



MATCHLINE SEE ABOVE RIGHT

MATCHLINE STA 108+25.00  
SEE SHEET 34

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

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<b>WATER METER MODIFICATIONS PLAN</b>			
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			33 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD			
CITY OF TUCSON	DRWN. BY	ABB	11/13
	DSGN. BY	ABB	11/13
	CHKD. BY	JAS	11/13
REF.	SCALE: 1" = 40'		PLAN NO. x-2013-XXX

Exist Fire Hydrant  
Protect in Place

MATCHLINE STA 108+25.00  
SEE SHEET 33

MH# 9476-09A  
G-168  
VPP

ADAMS STREET

Exist R/W

Cst £

Exist Fire Hydrant  
Protect in Place

Exist R/W

G-168  
VCP

G-168  
VCP

LEE STREET

Exist R/W

Exist Fire Hydrant  
Protect in Place

ELM STREET

MATCHLINE SEE BELOW LEFT

105+00



MATCHLINE SEE ABOVE RIGHT

100+00

G-155  
VCP

Exist Fire Hydrant  
Protect in Place

Exist R/W

G-155  
VCP

Cst £

LESTER STREET

Cst £

95+00

Avoid Water Meter

Exist Fire Hydrant  
Protect in Place

G-155  
VCP

Cst £

LINDEN STREET

MATCHLINE STA 92+25.00  
SEE SHEET 35



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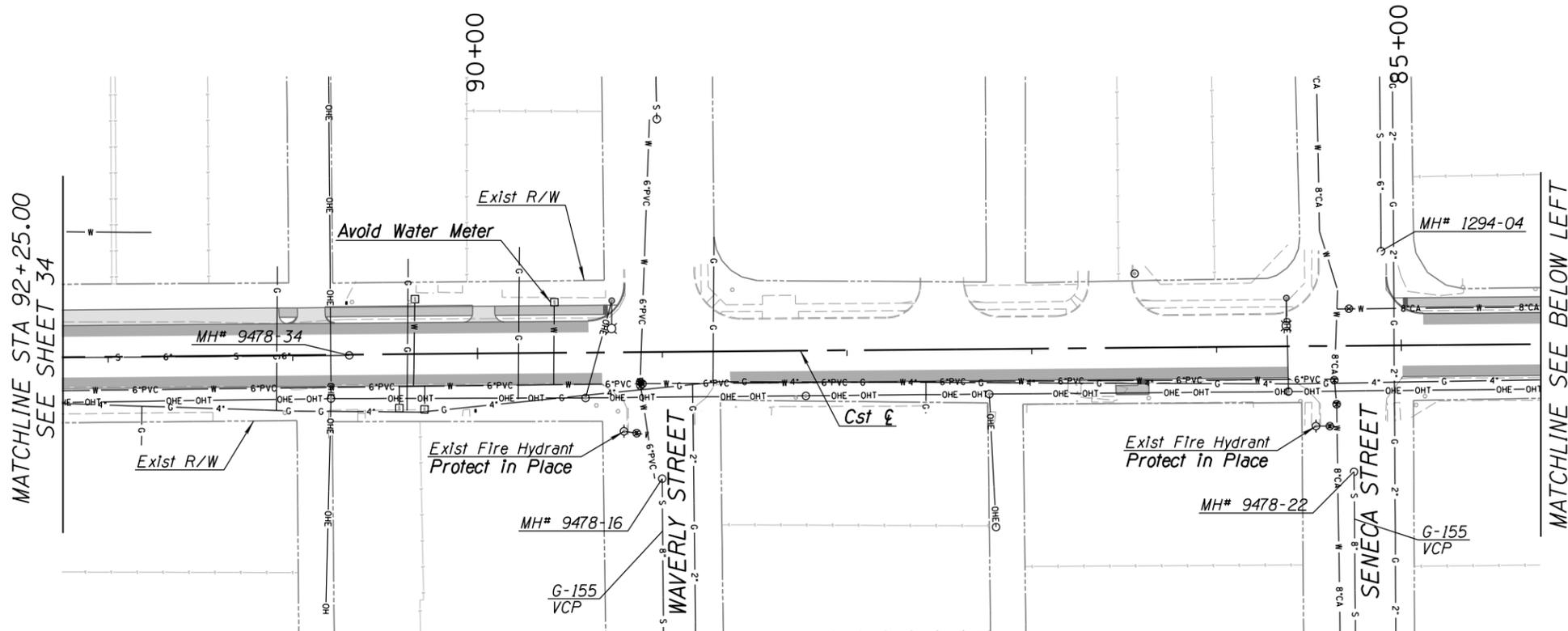
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WATER METER MODIFICATIONS PLAN

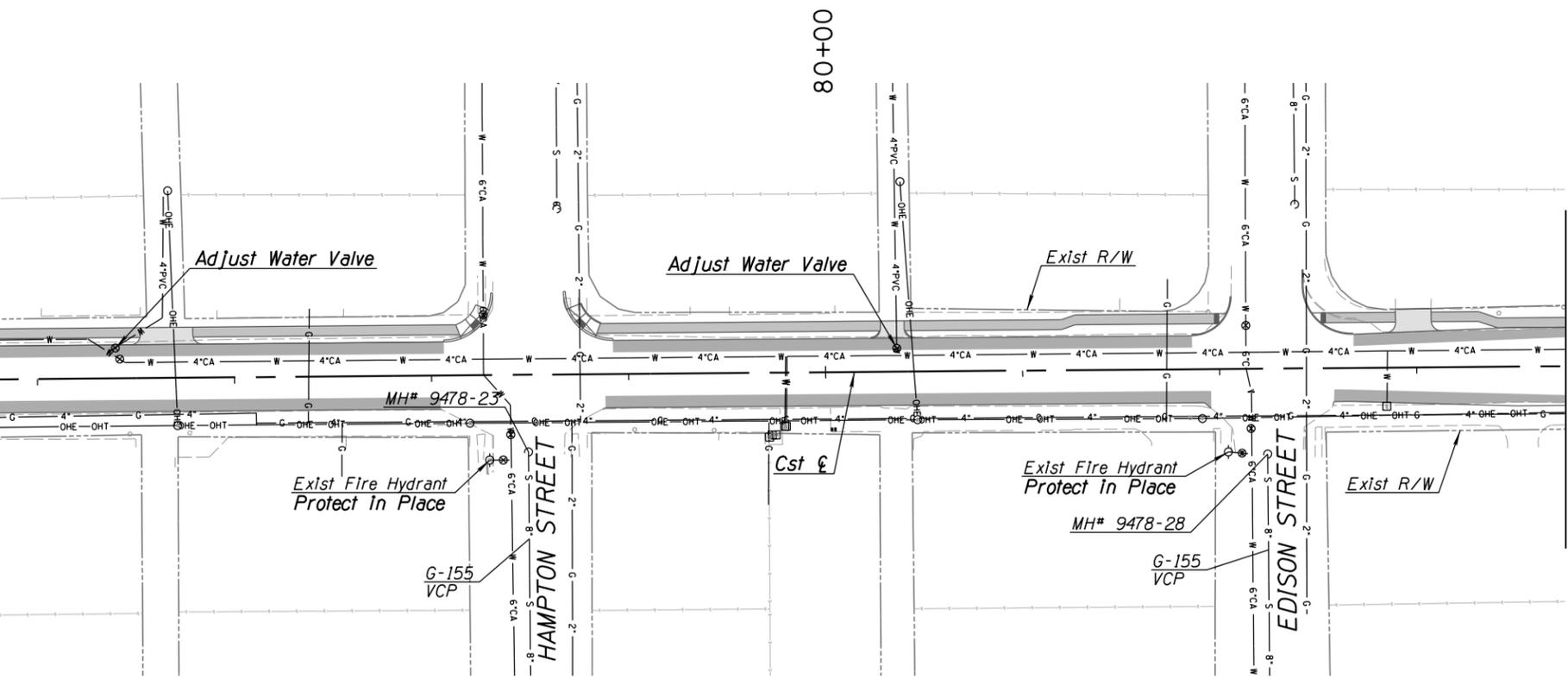
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		34
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD		OF 39
	DRWN. BY ABB	11/13
	DSGN. BY ABB	11/13
	CHKD. BY JAS	11/13
REF.	SCALE: 1" = 40'	PLAN NO. x-2013-XXX



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MATCHLINE STA 76+25.00  
SEE SHEET 36

MATCHLINE SEE ABOVE RIGHT



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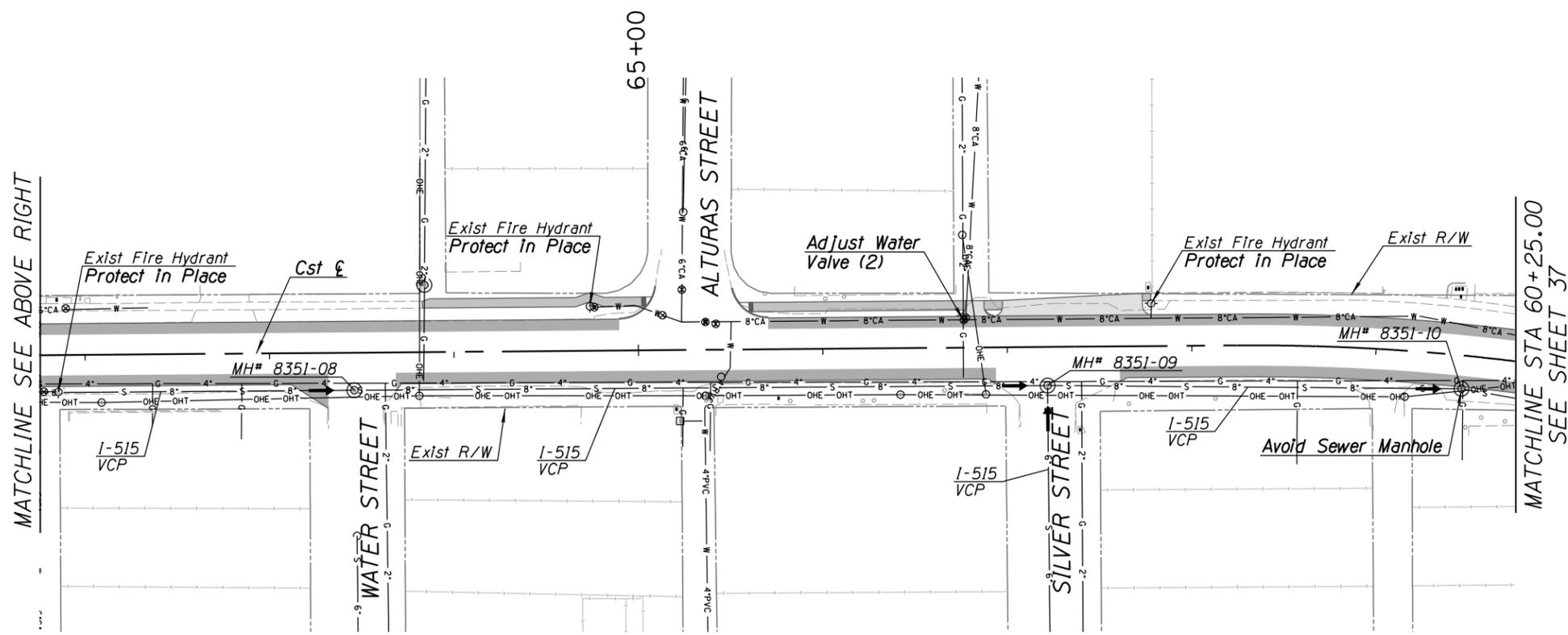
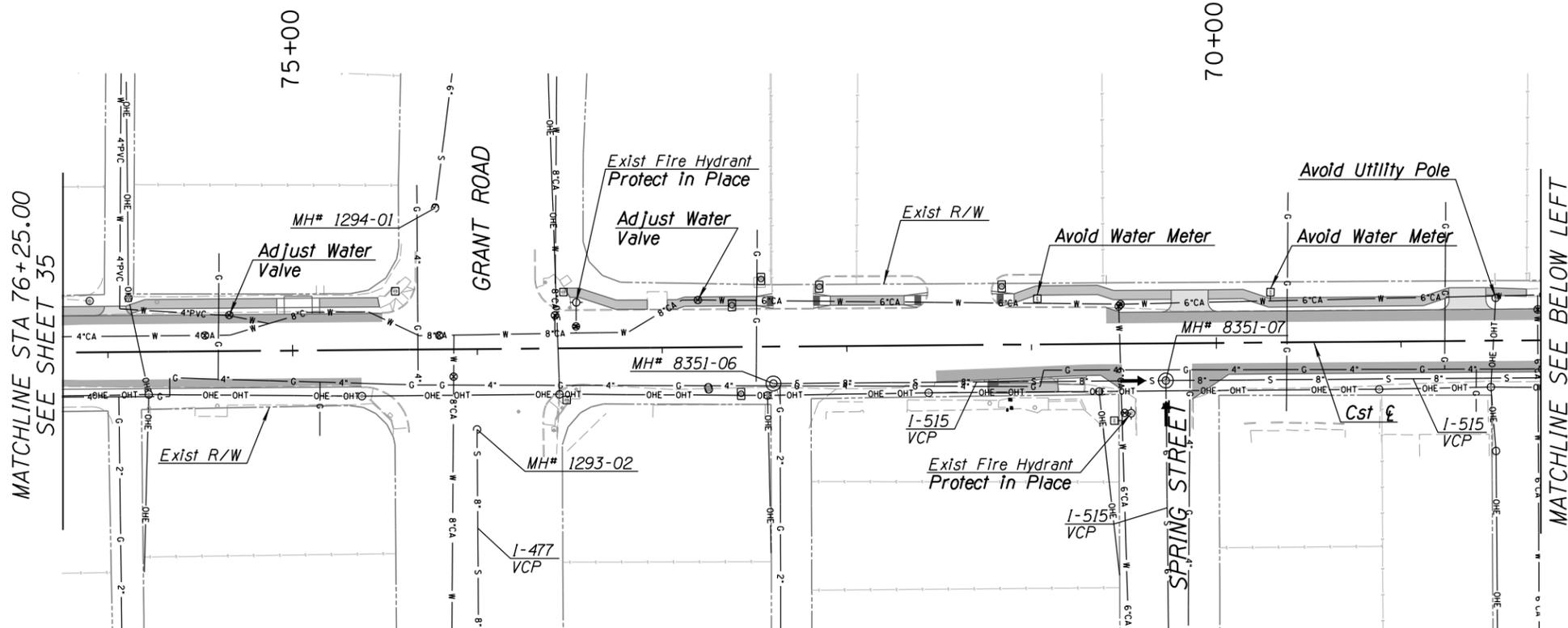


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<b>WATER METER MODIFICATIONS PLAN</b>			
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			35 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD			
	DRWN. BY	ABB	11/13
	DSGN. BY	ABB	11/13
	CHKD. BY	JAS	11/13
REF. _____		SCALE: 1" = 40'	
PLAN NO. _____		x-2013-xxx	



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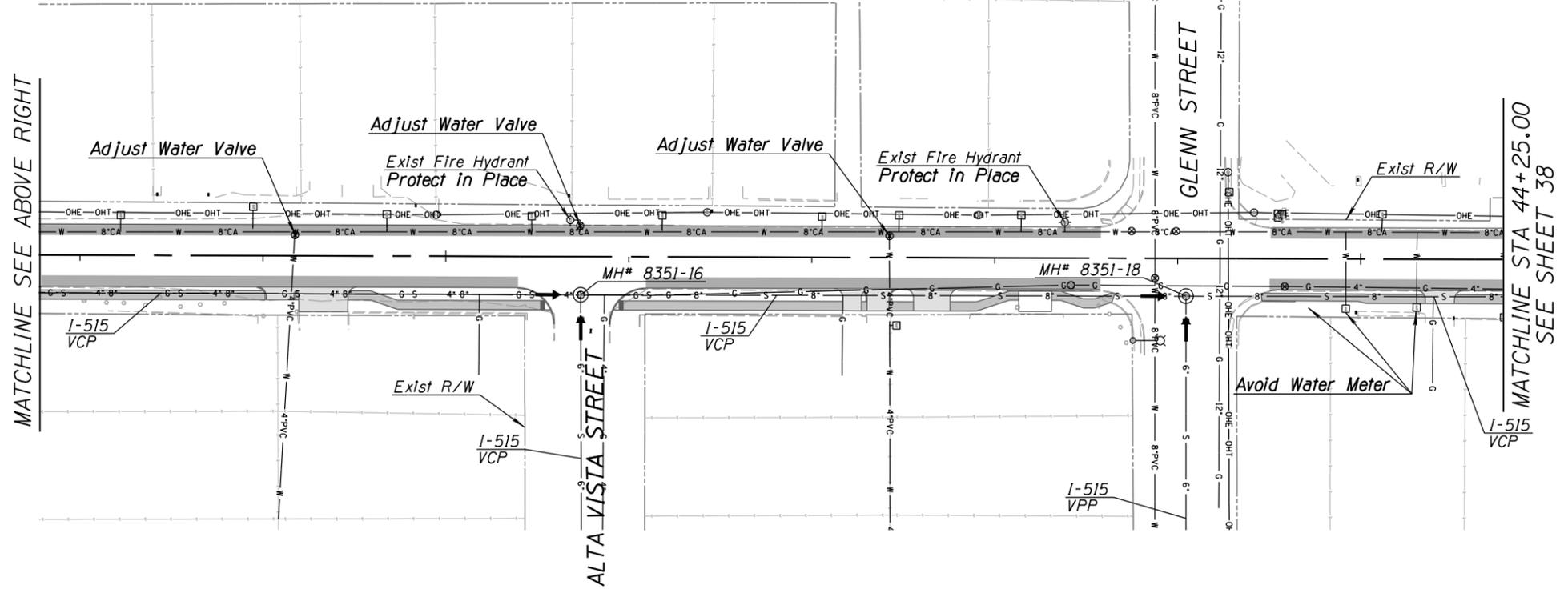
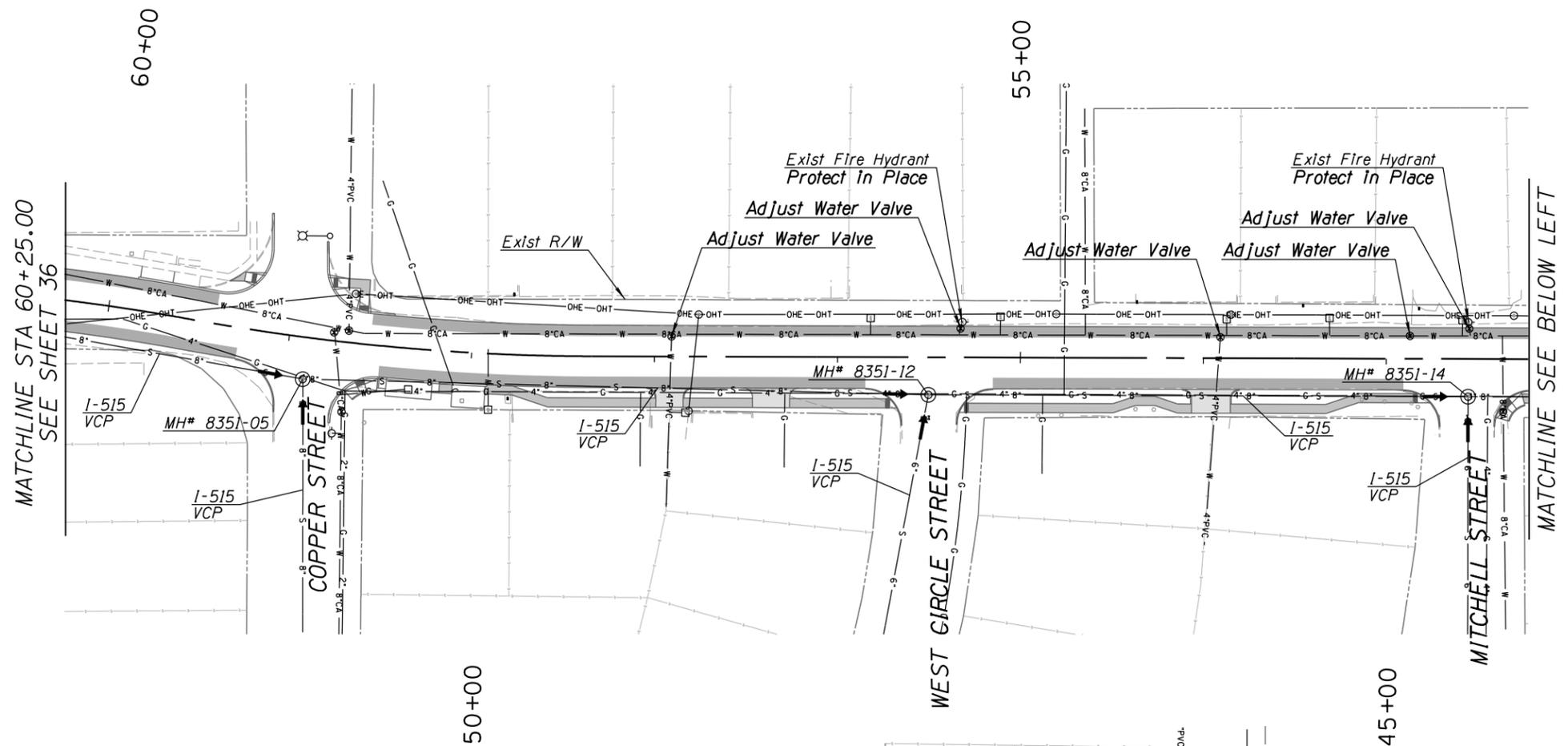


12/13/2013  
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Kittelson & Associates, Inc. 2 E. Congress St., Suite 705 Tucson, AZ 85701 (520) 544-4067					
NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY  
**60%**  
REVIEW  
NOT FOR  
CONSTRUCTION  
OR RECORDING

<b>WATER METER MODIFICATIONS PLAN</b>			
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			36 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD			
CITY OF TUCSON	DRWN. BY	ABB	11/13
	DSGN. BY	ABB	11/13
	CHKD. BY	JAS	11/13
REF.	SCALE: 1" = 40'		
PLAN NO.	x-2013-xxx		



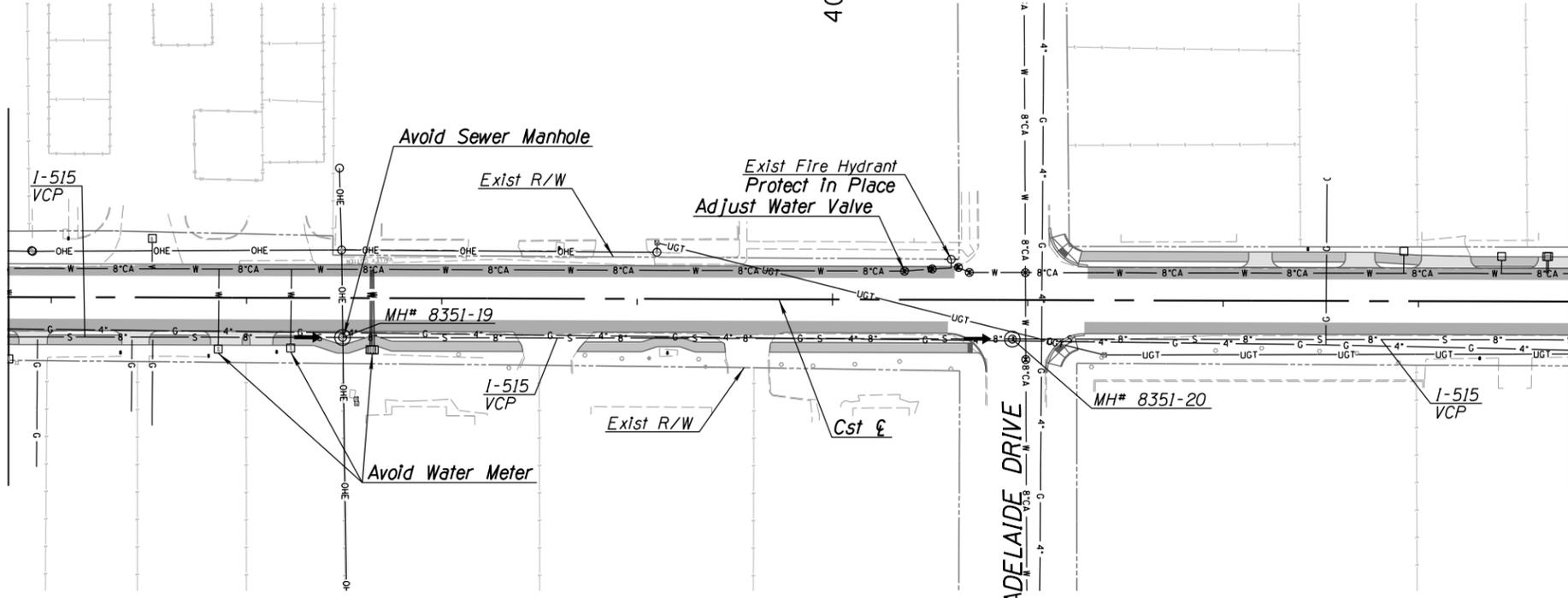
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 H:\profile\13316 - Park Ave Final Design\design\07 Utilities\pk-util.05.dgn

<b>K</b> Kittelson & Associates, Inc. 2 E. Congress St., Suite 705 Tucson, AZ 85701 (520) 544-4067					
NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY  
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<b>WATER METER MODIFICATIONS PLAN</b>			
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			37 OF 39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD			
	DRWN. BY	ABB	11/13
	DSGN. BY	ABB	11/13
	CHKD. BY	JAS	11/13
REF. _____		SCALE: 1" = 40'	
PLAN NO. _____		x-2013-xxx	

MATCHLINE STA 44+25.00  
SEE SHEET 37

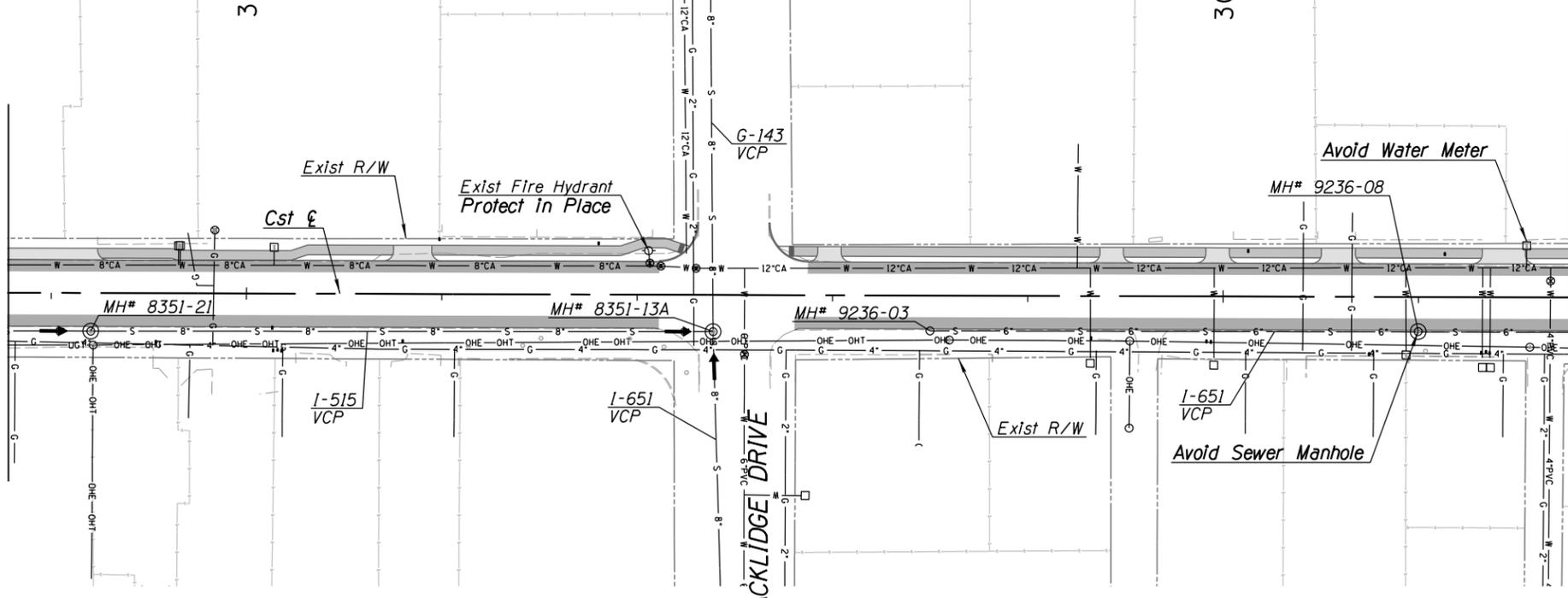


MATCHLINE SEE BELOW LEFT

35+00

30+00

MATCHLINE SEE ABOVE RIGHT



MATCHLINE STA 28+25.00  
SEE SHEET 39

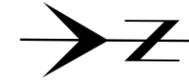
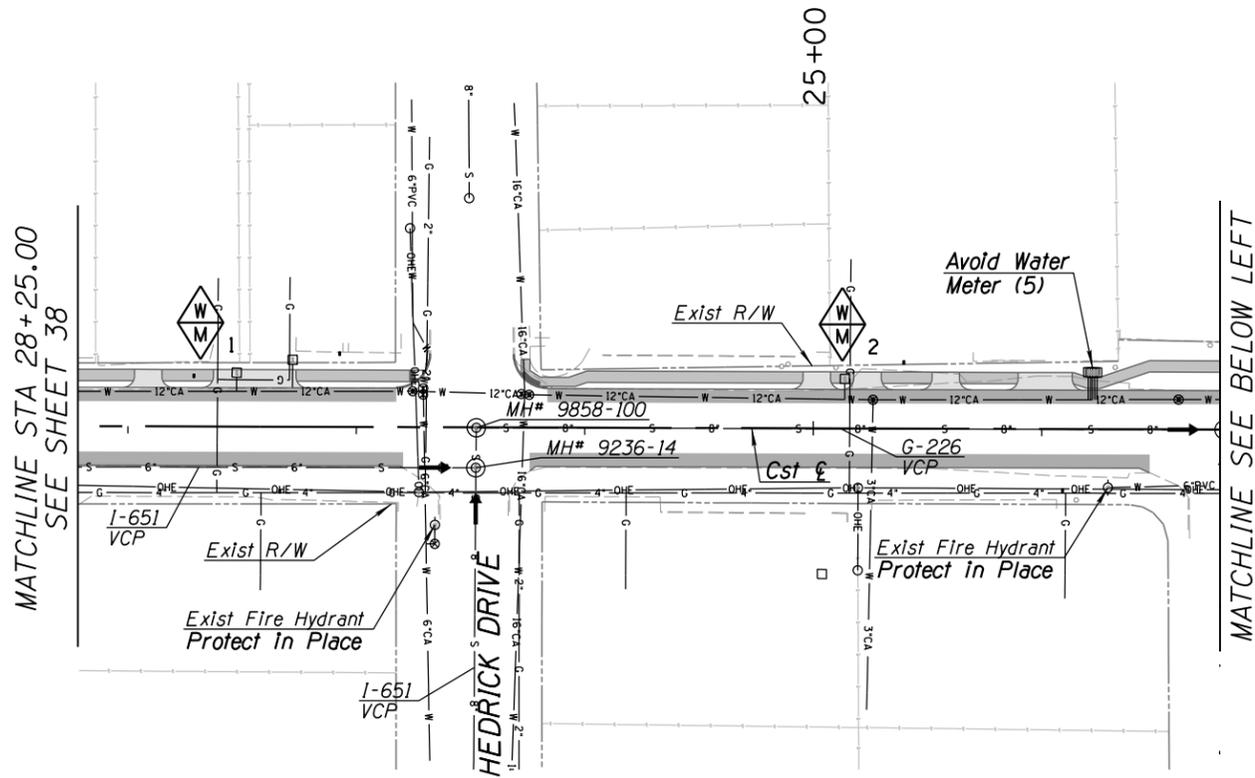


12/13/2013  
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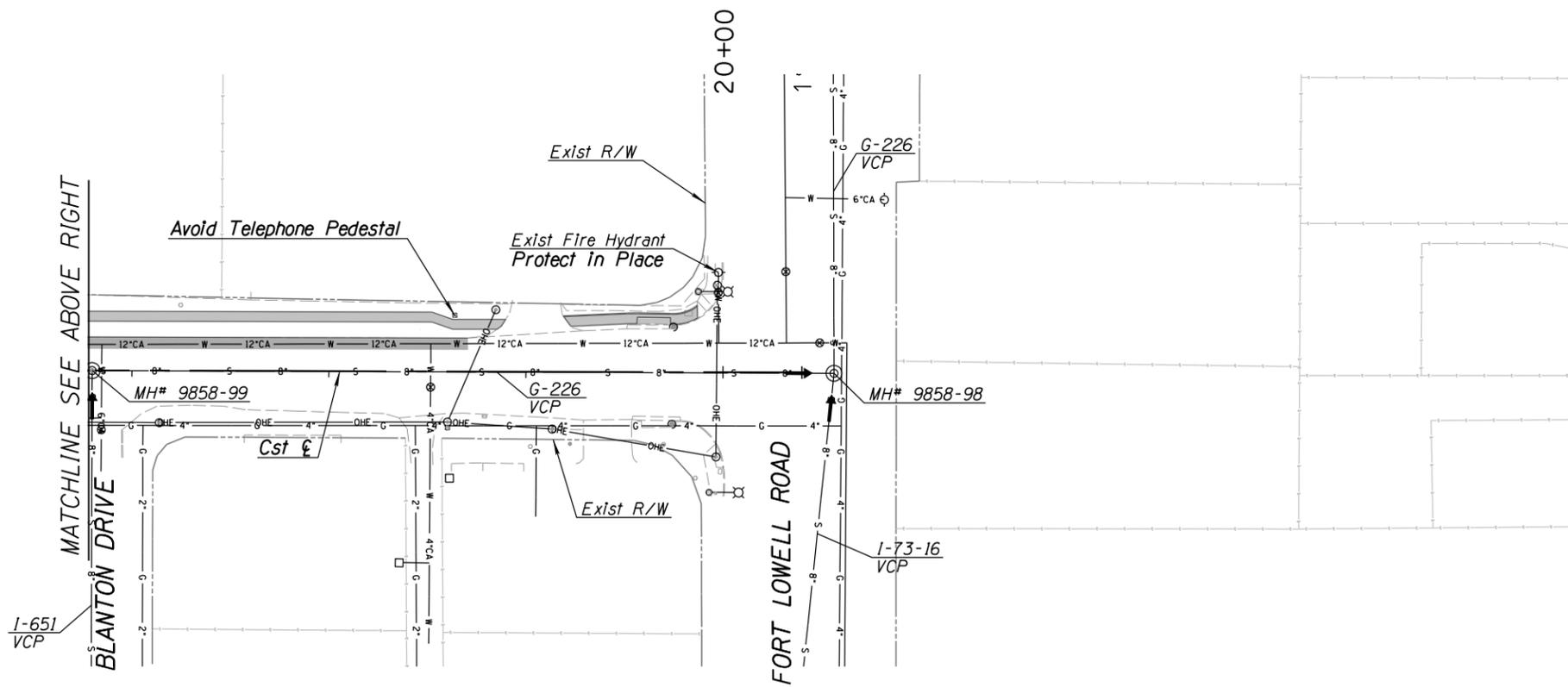
Kittelson & Associates, Inc. 2 E. Congress St., Suite 705 Tucson, AZ 85701 (520) 544-4067					
NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY  
**60%**  
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OR RECORDING

WATER METER MODIFICATIONS PLAN					
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION					38
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD					OF 39
CITY OF TUCSON	DRWN. BY	ABB	11/13	REF.	SCALE: 1" = 40'
	DSGN. BY	ABB	11/13		
	CHKD. BY	JAS	11/13	PLAN NO.	x-2013-xxx



SERVICE WORK						
CODE	ADDRESS		PIPE SIZES & QUANT. (IN FEET ±)			
	METER NUMBER & SIZE		3/4"	1"	1 1/2"	2"
1	W	3047 N. Park Ave.				
	M	#20219844				
2	W	3111 N. Park Ave.				
	M	#21121400				
TOTAL QUANTITIES OF SERVICE CU PIPE						



12/13/2013  
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NO.	DATE	REVISION	BY	CHKD.	APPR.

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WATER METER MODIFICATIONS PLAN					
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION					39
PARK AVENUE ENHANCEMENT SPEEDWAY BOULEVARD TO FORT LOWELL ROAD					39
CITY OF TUCSON	DRWN. BY	ABB	11/13	REF.	SCALE: 1" = 40'
	DSGN. BY	ABB	11/13		
	CHKD. BY	JAS	11/13	PLAN NO.	x-2013-xxx

# McGann & Associates Inc. Landscape Architects and Planners

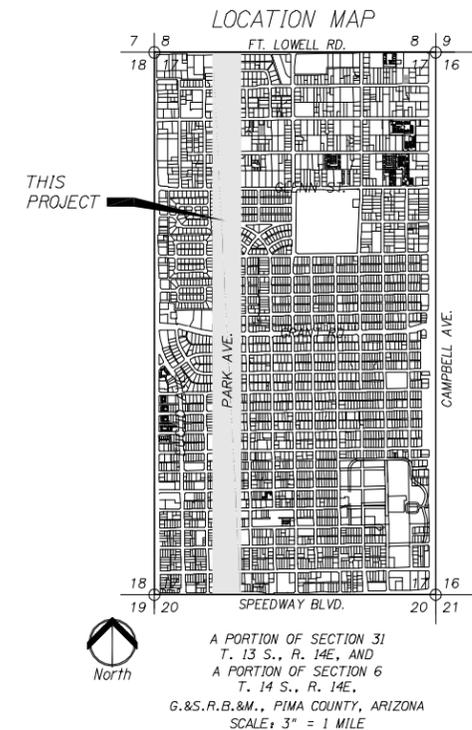
6814 North Oracle Road, Suite 210 Tucson, Arizona 85704  
Telephone: (520) 297-9540 Fax: (520) 297-9545

## Civil Engineers

KITTELSON & ASSOCIATES, INC.  
2 EAST CONGRESS SUITE 705  
TUCSON, AZ 85701  
Telephone (520) 544-4067

CITY OF TUCSON DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION

## PARK AVENUE - SPEEDWAY BLVD. TO FT. LOWELL RD. PEDESTRIAN AND BICYCLE IMPROVEMENT PLANS PRELIMINARY NATIVE PLANT PRESERVATION PLAN



### INDEX TO DRAWINGS

- N-1 COVER SHEET: SUMMARY TABLE, INVENTORY DATA AND GENERAL NOTES  
N-2 NATIVE PLANT PRESERVATION PLAN: AREAS 4 AND 5  
N-3 NATIVE PLANT PRESERVATION PLAN: AREAS 10 AND 11  
NOTE: AREAS THAT DO NOT INCLUDE NATIVE PLANTS ARE NOT SHOWN IN THE DRAWINGS SEE AREA KEY MAP ON SHEET N-2

### NATIVE PLANT PRESERVATION PLAN INVENTORY

FIELD TAG I.D. NUMBER	PLANT TYPE	BOTANICAL NAME	COMMON NAME	HEIGHT (FEET)	CALIPER (INCHES)	FORM	VIABILITY RATING	VIABILITY NOTE	TRANSPLANTABILITY RATING	TRANSPLANTABILITY NOTES	PROPOSED DISPOSITION
1	SUCCULENT	FOUQUIERIA SPLENDENS	OCOTILLO	8	N/A	MULTI	HIGH		HIGH		PIP
2	SHRUB	ACACIA GREGGII	CATCLAW ACACIA	6	N/A	MULTI	HIGH		LOW	INTERFERENCE	PIP
3	SUCCULENT	FOUQUIERIA SPLENDENS	OCOTILLO	10	N/A	MULTI	HIGH		HIGH		PIP
4	TREE	PROSOPIS VELUTINA	VELVET MESQUITE	12	6	MULTI	MEDIUM	ADVANCED AGE	LOW	INTERFERENCE	PIP
5	TREE	PROSOPIS VELUTINA	VELVET MESQUITE	12	6	MULTI	MEDIUM	ADVANCED AGE	LOW	INTERFERENCE	PIP
6	TREE	PROSOPIS VELUTINA	VELVET MESQUITE	15	14	MULTI	MEDIUM	ADVANCED AGE	LOW	SIZE NOT SUITABLE	PIP
7	TREE	PROSOPIS VELUTINA	VELVET MESQUITE	12	12	MULTI	MEDIUM	ADVANCED AGE	LOW	INTERFERENCE	PIP

### NATIVE PLANT PRESERVATION PLAN MITIGATION SUMMARY TABLE

SPECIES	INVENTORIED QUANTITY OF VIABLE PLANTS (PLANTS RATED MEDIUM AND HIGH VIABILITY)	QUANTITY TO BE PRESERVED-IN-PLACE (PIP)	QUANTITY TO BE TRANSPLANTED ON-SITE (TOS)	QUANTITY OF TO BE REMOVED FROM SITE (RFS)	PERCENTAGE OF VIABLE TO BE PIP AND / OR TOS	MITIGATION REQUIREMENT FOR TOS AND RFS	PRESERVATION CREDIT	NET MITIGATION REQUIREMENT	MINIMUM PLANTS ON SITE AFTER COMPLETION PIP, TOS & MITIGATION
<b>TREES</b>									
Prosopis velutina Velvet Mesquite	4	4	0	0	100%	0	0	0	4
<b>SHRUBS</b>									
Acacia greggii Catclaw Acacia	1	1	0	0	100%	0	0	0	1
<b>CACTI / SUCCULENTS</b>									
Fouquieria splendens Ocotillo	2	2	0	0	100%	0	0	0	2
<b>TOTAL</b>	<b>7</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>

### GENERAL NOTES

- THIS NATIVE PLANT PRESERVATION PLAN WAS PREPARED BY MCGANN & ASSOCIATES. THE NATIVE PLANT INVENTORY WAS COMPLETED BY MCGANN & ASSOCIATES IN NOVEMBER 2013.
- THE TOTAL SITE AREA IS APPROXIMATELY 1/4 ACRES.
- THE SALVAGE AND MITIGATION STANDARDS USED FOR THIS PROJECT WERE BASED ON THE CITY OF TUCSON LAND USE CODE, SECTION 3.8.6. THE COMPLETE NATIVE PLANT INVENTORY TABLE MITIGATION SUMMARY TABLE ARE PROVIDED ON SHEET N-1.
- THERE WILL BE NO TEMPORARY NURSERY ESTABLISHED FOR THIS PROJECT.
- THE NOTES PROVIDED BELOW ARE THE REQUIRED NOTES FOR THE CITY OF TUCSON.

### NATIVE PLANT PRESERVATION & SALVAGE NOTES:

- NATURAL AREAS OUTSIDE THE LIMITS OF GRADING THAT ARE TO BE PRESERVED SHALL BE PROTECTED FROM INTRUSION OR DAMAGE BY TEMPORARY FENCING. FENCING STANDARDS, INCLUDING SETBACKS FROM INDIVIDUAL PLANTS, SHALL COMPLY WITH D.S. 2-15.6.0. TEMPORARY FENCING SHALL BE INSTALLED PER THE DETAIL SHOWN IN D.S. 2-06.8.0 FIGURE 13 - SITE PRESERVATION FENCE DETAIL.
- EXISTING PROTECTED NATIVE PLANTS HAVE BEEN IDENTIFIED AND LOCATED DURING AN INVENTORY CONDUCTED IN NOVEMBER 2013. THE LOCATION OF THE SPECIES FOUND ARE INDICATED ON THE PLAN BY THE SYMBOLS SHOWN IN THE NATIVE PLANT LEGEND. AN IDENTIFICATION NUMBER IS INCLUDED WITH EACH SYMBOL THAT CROSS REFERENCES THE PLANT TO THE INVENTORY LIST INCLUDED WITH THIS PLAN. THE INVENTORY LIST SUMMARIZE THE VIABILITY, TRANSPLANTABILITY, AND PROPOSED STATUS OR DISPOSITION OF THE PLANTS INVENTORIED.

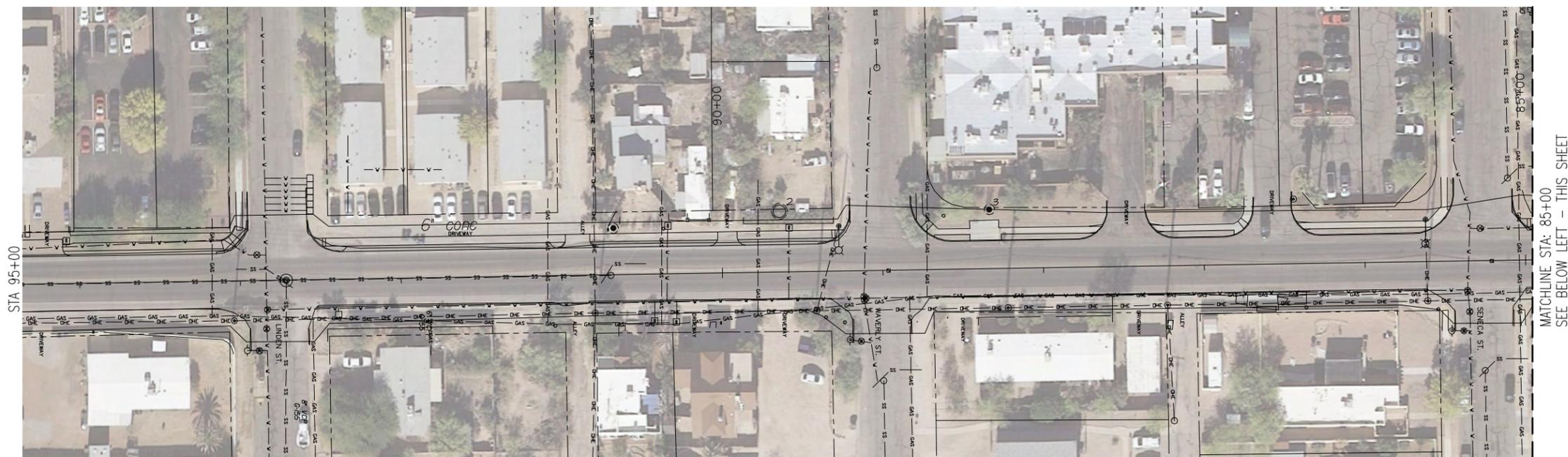
- IN ADDITION TO FIELD LOCATION AND CATEGORIZATION, EACH PLANT WAS FLAGGED AND TAGGED PER D.S. 2-15.5.0. FLAGS WERE COLOR CODED. ALL PLANTS WERE ALSO TAGGED WITH EMBOSSED METAL TAGS MARKED WITH THE IDENTIFICATION NUMBER PROVIDED ON THE INVENTORY LISTS AND SHOWN ON THE PLAN. COLOR CODING WAS IMPLEMENTED AS FOLLOWS:  
BLUE - TRANSPLANT ON-SITE  
YELLOW - REMOVE FROM SITE  
WHITE - PRESERVE-IN-PLACE
- PLANT PROTECTION DURING CONSTRUCTION SHALL COMPLY WITH REQUIREMENTS PER L.U.C. 3.8.6.6 INCLUDING MONITORING AND REPORTING OF SITE CONSTRUCTION ACTIVITIES RELATED TO CLEARING, GRADING, PLANT PROTECTION, PRESERVATION, SALVAGE, AND MITIGATION.
- SEE THE LANDSCAPE PLAN FOR THIS PROJECT FOR INFORMATION RELATED TO THE PROPOSED USE AND LOCATION OF SALVAGED PLANT MATERIALS.
- NPPO PRE-PERMIT INSPECTION REQUIRED PRIOR TO GRADING INSPECTION, CAN BE BY THE PROJECT ENGINEER.
- SALVAGE AND TRANSPLANTING WORK SHALL BE AS OUTLINED IN THE SPECIFICATIONS FOR THIS PROJECT AND SHALL COMPLY WITH NORMAL STANDARDS AND PRACTICES AND D.S. 2-15.4.0.
- FENCING SHALL BE REQUIRED DURING CONSTRUCTION PER DS 2-6.8.0 FIG. 1 FOR INDIVIDUAL PROTECTED NATIVE PLANTS TO BE PRESERVED-IN-PLACE. THE AREA TO BE FENCED SHALL BE BEYOND THE "DRIP-LINE" OF THE VEGETATION BY ONE-HALF (1/2) THE DISTANCE OF THE "DRIP-LINE" RADIUS. FOR SAGUAROS AND CACTI, THE AREA TO BE FENCED SHALL BE EQUAL TO THE DISTANCE OF ONE-HALF (1/2) THE HEIGHT OF THE PLANT PER DS 2-15.6.0.

### N1 NATIVE PLANT PRESERVATION PLAN

PRELIMINARY	DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		N1	OF
60%	PARK AVENUE SPEEDWAY BLVD. TO FORT LOWELL RD.		N1	OF
REVIEW NOT FOR CONSTRUCTION OR RECORDING	DRWN. BY PB/DS	11/13	REF.	SCALE: 1" = 40'
	DSGN. BY DS	11/13		
	CHKD. BY SM	11/13	PLAN NO. I-2010-005	



NO.	DATE	REVISION	BY	CHKD.	APPR.



NATIVE PLANT PRESERVATION PLAN – AREA 4 – STA: 95+00 TO STA: 85+00  
SCALE: 1" = 40'-0"



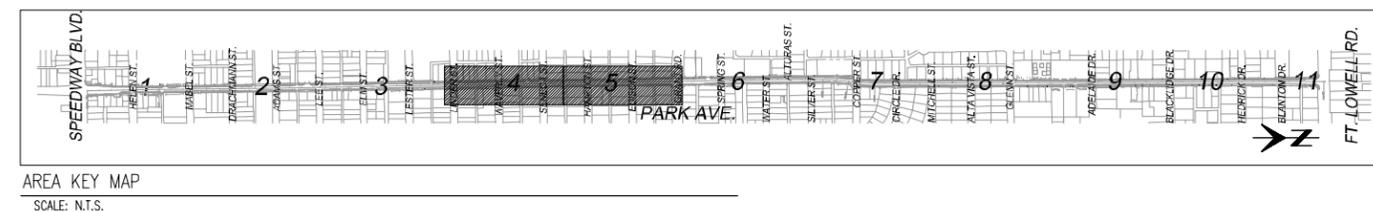
MATCHLINE STA: 85+00  
SEE BELOW LEFT – THIS SHEET



NATIVE PLANT PRESERVATION PLAN – AREA 5 – STA: 85+00 TO STA: 75+00  
SCALE: 1" = 40'-0"



SYMBOL LEGEND AND KEY			
PLANT	PRESERVE IN PLACE	TRANSPLANT ON-SITE	REMOVE FROM SITE
TREE			
SHRUB			
CACTUS			



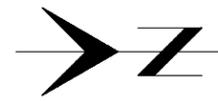
AREA KEY MAP  
SCALE: N.T.S.

N2 NATIVE PLANT PRESERVATION PLAN – AREAS 4 & 5

PRELIMINARY	DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		XX
60%	PARK AVENUE SPEEDWAY BLVD. TO FORT LOWELL RD.		OF
REVIEW NOT FOR CONSTRUCTION OR RECORDING	DRWN. BY PB/DS	11/13	REF. SCALE: 1" = 40'
	DSGN. BY DS	11/13	N2 OF N3
	CHKD. BY SM	11/13	PLAN NO. I-2010-005



NO.	DATE	REVISION	BY	CHKD.	APPR.
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NATIVE PLANT PRESERVATION PLAN – AREA 10 – STA: 35+00 TO STA: 25+00  
SCALE: 1" = 40'-0"



MATCHLINE STA: 25+00  
SEE BELOW LEFT – THIS SHEET



NATIVE PLANT PRESERVATION PLAN – AREA 11 – STA: 25+00 TO END OF PROJECT  
SCALE: 1" = 40'-0"



SYMBOL LEGEND AND KEY			
PLANT	PRESERVE IN PLACE	TRANSPLANT ON-SITE	REMOVE FROM SITE
TREE			
SHRUB			
CACTUS			



AREA KEY MAP  
SCALE: N.T.S.

N3 NATIVE PLANT PRESERVATION PLAN – AREAS 10 & 11

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

PARK AVENUE  
SPEEDWAY BLVD. TO FORT LOWELL RD.

60%  
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OR RECORDING

DRWN. BY	PB/DS	11/13	REF.	SCALE: 1" = 40'
DSGN. BY	DS	11/13		
CHKD. BY	SM	11/13	PLAN NO. I-2010-005	

N3 OF N3

XX OF

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