F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	1	60	
0000 PM PPM					

SABINO HIGH SCHOOL- HARRISON ROAD BICYCLE LANE TRANSPORTATION ENHANCEMENT PROJECT PROJECT # 4TEHBL ADOT TRACS NO. 0000 PM PPM SL699 01 C FEDERAL AID NO. TEA-PPM 0(227) A

PIMA COUNTY

TRANSPORTATION

PIMA COUNTY BOARD OF SUPERVISORS

SHARON BRONSON, CHAIR, DISTRICT 3

ALLY MILLER, DISTRICT 1 RICHARD ELIAS, DISTRICT 5

RAMON VALADEZ, DISTRICT 2 RAY CARROLL, DISTRICT 4

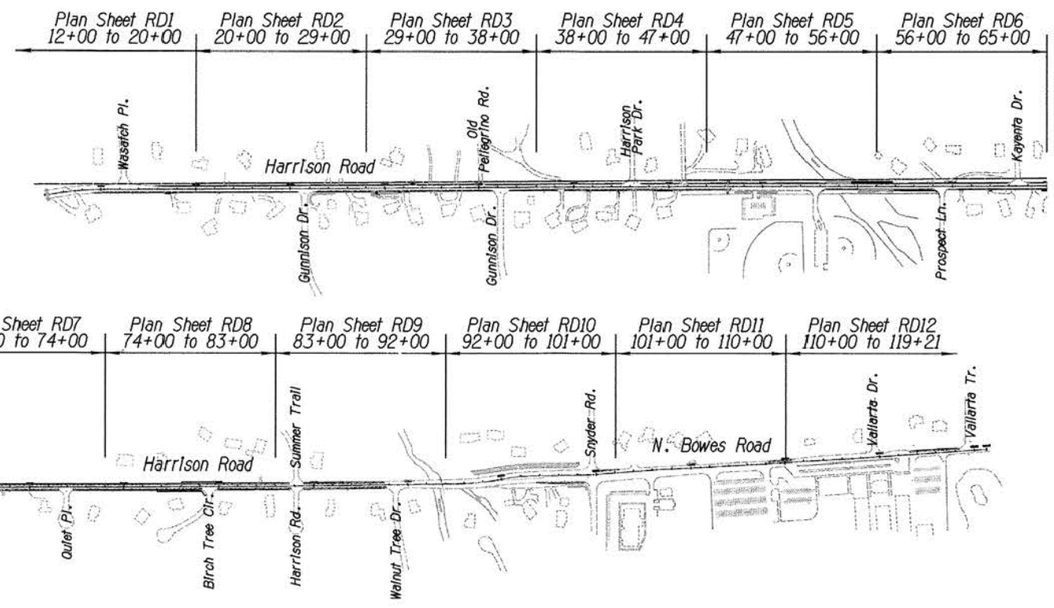
PROJECT IN SUPERVISOR DISTRICTS 1 & 4

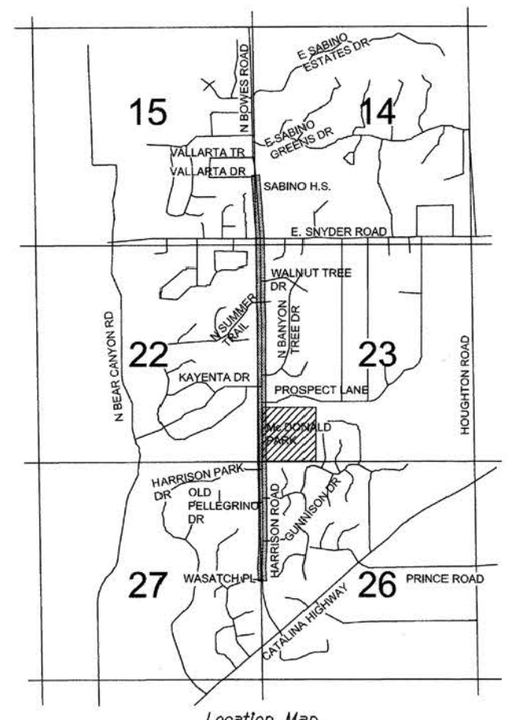
SHEET INDEX

SHT NO.	SHT NAME	DESCRIPTION
1	R1	COVER SHEET
2	R2	GENERAL NOTES
3-4	R3-R4	TYPICAL SECTIONS
5-10	R5-R10	ROADWAY DETAILS
11	HC1	SURVEY CONTROL PLAN
12-17	DM1-DM6	DEMOLITION PLANS
18-29	RD1-RD12	ROADWAY PLAN & PROFILE
30-33	DW1-DW4	DRIVEWAY PLAN & PROFILE
34-42	PM1-PM9	PAVEMENT MARKING & SIGNING PLAN
43-60	X1-X18	CROSS SECTIONS

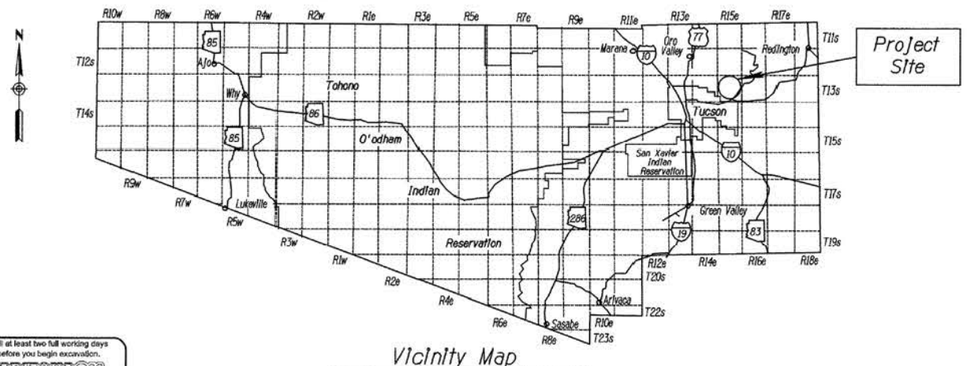
General Project Description

Construct six-foot wide bike lanes along Harrison Road from 1050 feet north of Catalina Highway to the main entrance to Sabino High School at Vallarta Drive, a total distance of 1.9 miles. The project shall also include signage, and pavement markings.





Location Map
NTS



Vicinity Map
Sections 14,15,22,23,26,27
T13S, R15E, G & SRM
Pima County, Arizona

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

UPC-2013-109

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TUCSON, A., 85711
PH: [520] 750-7474
FAX: [520] 750-7470
www.stantec.com

No.	Revisions	Engineer	Date
No.	As Built	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 34006 DOUGLAS MICHAEL MOSEKE Date Signed 09/30/14 ARIZONA, U.S.A.
Expires 09/30/2014

Project No. 4TEHBL

Pima County Department of Transportation
201 N. Stone Ave. 4th floor Tucson, Arizona 85701
Phone Number: 724-6410
Priscilla S. Cornelio, P.E. Director

Reviewed by	Engineer	Date
Mgr. Trans Engr.		5/15/14
Mgr. Traffic Engr.		5/22/14
Mgr. Field Engr.		8-20-14

Approved: 5/14 2014
Director

Sheet No. R1 of R10 Page No. 1 of 60

SABINO HIGH SCHOOL- HARRISON ROAD BICYCLE LANE: PROJECT # 4TEHBL

5/13/2014 11:07:57 AM
V:\52817140\TIVE\181710026 - HARRISON ROAD\DESIGN\DGN\026_01CVRSHT.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	2	60	

0000 PM PPM

GENERAL NOTES

(1) CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS AND DETAILS LISTED IN THE IN THE PROJECT SPECIAL PROVISION.

(2) UTILITY LOCATIONS SHOWN ON PLANS WERE COMPILED BASED ON THE BEST INFORMATION AVAILABLE TO THE DEPARTMENT. UTILITY INFORMATION IS NOT INTENDED TO BE EXACT OR COMPLETE. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL UTILITIES WITH THE APPROPRIATE ORGANIZATION. THE CONTRACTOR SHALL CONTACT "BLUE STAKE" AT 1-800-782-5348 TWO (2) FULL WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION (SATURDAYS AND SUNDAYS ARE NOT CONSIDERED WORKING DAYS).

(3) RIGHT-OF-WAY ENCROACHMENTS SHALL BE REMOVED ONLY BY ORDER OF PIMA COUNTY, UNLESS OTHERWISE NOTED.

(4) REMOVAL OF ALL CACTI AND NATIVE PLANTS SHALL BE IN ACCORDANCE WITH THE LATEST PROVISIONS OF THE "ARIZONA NATIVE PLANT LAW", A.R.S., CHAPTER 7.

(5) THE BASIS OF BEARING FOR THIS PROJECT IS THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 23, TOWNSHIP 13 SOUTH, RANGE 15 EAST, BETWEEN A FOUND 1#2-INCH REBAR AT THE INTERSECTION OF SNYDER ROAD WITH HARRISON ROAD, BEING THE NW CORNER OF SAID SECTION (PIMA COUNTY GEODETIC CONTROL POINT N17) AND A FOUND 1.5-INCH LEAD CAP AT THE INTERSECTION OF SNYDER ROAD WITH BONANZA AVENUE, BEING THE NORTH 1/4 CORNER OF SAID SECTION (PIMA COUNTY GEODETIC CONTROL POINT N19). THE BEARING OF SAID LINE IS N 89°28'36" E.

(6) THE BASIS OF ELEVATIONS FOR THIS PROJECT IS NAVD 88. THE PROJECT BENCHMARK IS PIMA COUNTY GEODETIC CONTROL POINT R17, A 2-INCH BRASS CAP SURVEY MONUMENT SITUATED NORTH WEST OF THE MAIL BOX ON THE SOUTH SIDE OF THE SHARED DRIVEWAY TO #4001, #4011 AND #4021 N. HARRISON ROAD. THE ELEVATION OF SAID BENCHMARK IS 2,610.37 FEET, NAVD 88.

(7) THE BASIS OF COORDINATES IS NAD83 ARIZONA STATE PLAN, CENTRAL ZONE, BROUGHT TO GROUND AT PIMA COUNTY GEODETIC CONTROL POINT N17, AT THE INTERSECTION OF SNYDER ROAD WITH HARRISON ROAD. THE COORDINATE VALUE AT THIS POINT IS N 472850.313 E 1048379.992. ALL PROJECT DISTANCES ARE GROUND MEASUREMENTS.

(8) THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS, ALLEYS, AND MAILBOXES DURING CONSTRUCTION, AND NOT RESTRICT EMERGENCY VEHICLES, U.S. POSTAL DELIVERY, SOLID WASTE COLLECTIONS, AND/OR ACCESS TO THE ADJACENT PROPERTIES, EXCEPT AS APPROVED BY THE ENGINEER.

(9) OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.

(10) ALL STATIONING SHOWN ON THE PLANS AND PROFILES IS ALONG THE CONSTRUCTION CENTER LINE UNLESS OTHERWISE NOTED.

(11) EXISTING UTILITIES INCLUDE, BUT MAY NOT BE LIMITED TO OVERHEAD AND UNDERGROUND ELECTRIC, TELEPHONE, TELEVISION, SEWER,GAS, AND WATER AND SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED AND SHOWN ON THESE PLANS.

(12) THE CONTRACTORS ATTENTION IS CALLED TO THE LIMITED AREA AVAILABLE ON THE SITE FOR EXCAVATION, EMBANKMENT, AND OTHER CONSTRUCTION ACTIVITIES.

(13) EXISTING TOPOGRAPHIC CONDITIONS SHOWN ON THE PLAN SHEETS REFLECT CONDITIONS AS OF MAY 2012.

(14) POSTED SPEED FOR HARRISON ROAD = 45 MPH.

(15) CROSS SECTIONS ARE PROVIDED FOR INFORMATION ONLY.

(16) REESTABLISHING EXISTING PROPERTY PINS IS NOT ANTICIPATED FOR THIS PROJECT. ANY PINS REMOVED BY THE CONTRACTOR SHALL BE REESTABLISHED UNDER THE SUPERVISION OF A REGISTERD LAND SURVEYOR AND WILL BE DONE SO AT NO ADDITIONAL COST TO THE COUNTY.

(17) SOUTHWEST GAS (SWG) HAS HIGH PRESSURE FACILITIES WITHIN THE PROJECT LIMITS. A SWG STAND-BY IS REQUIRED WHEN A CONTRACTOR IS POTHOLING OR DIGGING WITHIN 10-FEET OF A SWG HIGH PRESSURE MAIN AND A STAND-BY MUST BE SCHEDULED 24 HOURS PRIOR TO EXCAVATION. THE PHONE NUMBER TO CALL FOR A STAND-BY IS (520) 794-6021.

DEMOLITION NOTES

(1) SITE SHALL BE TREATED FOR BUFFELGRASS, FOUNTAIN GRASS, AND OTHER INVASIVE SPECIES PRIOR TO INITIATION OF WORK. SEE SPECIAL PROVISIONS 201-3.04.

(2) CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION OF EXISTING PLANT MATERIALS ACCORDING TO SPECIAL PROVISIONS SECTION 201-3.02. OVERHANGING BRANCHES WITHIN THE RIGHT OF WAY THAT MAY IMPACT CONSTRUCTION SHALL BE PRUNED IN ACCORDANCE WITH SPECIAL PROVISIONS SECTION 201-3.05 AND ITEM #8061700

(3) EXISTING TREES ON ADJACENT PRIVATE PROPERTY MAY HAVE OVERHANGING BRANCHES THAT WILL REQUIRE PRUNING. SEE SPECIAL PROVISIONS 201-3.05. NO PRUNING SHALL BE PERFORMED WITHOUT THE NOTIFICATION OF PIMA COUNTY COMMUNITY RELATIONS.

(4) WHERE CONSTRUCTION IMPACTS EXISTING LANDSCAPE OR IRRIGATION ENCROACHMENTS WITHIN RIGHT OF WAY, CONTRACTOR SHALL COORDINATE REQUIRED ADJUSTMENTS WITH PROJECT ENGINEER AND ADJACENT PROPERTY OWNERS. SEE ALSO SPECIAL PROVISIONS, ITEM #2020004.

(5) CONTRACTOR IS TO INSTALL PRESERVATION FENCING AS DIRECTED BY A COUNTY REPRESENTATIVE PRIOR TO CLEARING. LOCATIONS SHOWN ON PLANS SHALL BE ADJUSTED IN THE FIELD AS REQUIRED. PRESERVATION FENCING IS TO REMAIN DURING DURATION OF PROJECT.

SANITARY SEWER GENERAL NOTES

(1) IMMEDIATELY REPORT ANY OF THE FOLLOWING TO EITHER PCRWRD FIELD ENGINEERING (520-740-2651) OR PCRWRD CONVEYANCE DIVISION (520-724-3400): ANY RELEASE OF SEWAGE, ANY DAMAGE TO THE PUBLIC SANITARY SEWAGE SYSTEM, OR THE DROPPING OF DEBRIS INTO THE PUBLIC SANITARY SEWAGE SYSTEM. ON WEEKENDS, HOLIDAYS, OR BETWEEN 5:00 P.M. AND 7:00 A.M., IMMEDIATELY CALL PCRWRD OPERATIONS CONTROL CENTER AT (520-724-6048) AND REQUEST A PCRWRD REPRESENTATIVE TO BE DISPATCHED TO THE SITE. TAKE IMMEDIATE ACTION TO 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 RELEASE AREAS AND FOR ANY REGULATORY PENALTIES LEVIED ON PCRWRD BECAUSE THE SSO ENTERED A NATURAL DRAINAGE WAY OR STORM WATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY PCRWRD.

(2) HOUSE OR BUSINESS CONNECTION SEWERS (HCS OR BCS) ARE NOT PART OF THE PUBLIC SANITARY SEWER CONVEYANCE SYSTEM. PRIVATE CONNECTION SEWERS 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 PER PCRWRD SSDC 2012, DETAIL RWRD 400 AND AT NO EXPENSE TO THE PROPERTY OWNER OR PCRWRD.

(3) CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLE STRUCTURES AT ALL TIMES.

WATER SYSTEM GENERAL NOTES

(1) THE CONTRACTOR SHALL PROTECT IN-PLACE ALL TUCSON WATER FACILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL IMMEDIATELY CONTACT TUCSON WATER AT (520) 791-4133 TO REPORT ANY DAMAGE TO TUCSON WATER FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF REPAIR OF TUCSON WATER FACILITIES DAMAGED DURING CONSTRUCTION.

(2) SPECIAL USE WATER PERMITS:
PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL APPLY FOR ONE (1) SPECIAL WATER USE PERMIT FROM THE CITY OF TUCSON WATER DEPARTMENT COMMERCIAL SECTION.

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.

(3) VALVE BOXES:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL EXISTING WATER VALVE BOXES, AS SHOWN ON THE PROJECT PLANS, TO THE FINISHED GRADE PER W-300. ALL VALVE BOXES SHALL BE ACCESSIBLE AND MARKED DURING CONSTRUCTION. ALL WATER VALVE BOX AND COVERS LOCATED WITHIN THE AREAS RECEIVING A FOG COAT SHALL BE COVERED AND PROTECTED.

LEGEND

EXISTING		NEW
SD	STORM DRAIN	
OP	OVERHEAD POWER	
P	UNDERGROUND POWER	
UGE	UNDERGROUND ELECTRIC	
S	SEWER MAIN AND MANHOLE	
T	TELEPHONE LINE AND PEDESTAL	
TV	CABLE TV LINE AND BOX	
G	GAS LINE	
	FIRE HYDRANT	
W	METER BOX	
12" PVC	WATER MAIN AND VALVE	
	RIGHT OF WAY LINE	
	SECTION LINE	
	NEW AC PAVEMENT FOR BIKE LANE	
	FOG COAT	
	NEW AC PAVEMENT FOR DRIVEWAYS	
	RIP-RAP (HAND PLACED) (GROUTED)	
	SURVEY MONUMENT	
	SURVEY CONTROL POINT	
	SIGN	
PP	POWER POLE	
EP -------	EDGE OF PAVEMENT	EP ———
	SEED MIX 2 PLUS ROCK MULCH	
	CUT LIMITS	C ——— C
	FILL LIMITS	F ——— F

EARTHWORK QUANTITIES		Bid Item #
Roadway Excavation	2,242 CY	2030300
Pavement Removal	214 CY	
Shrink	203 CY	(2020029-See Earthwork Note 2)
Total Excavation Available for Embankment	1,825 CY	
Embankment (Incl Gnd Comp)	690 CY	
Waste	1,135 CY	

EARTHWORK FACTORS		
Station	Shrink/Swell	Ground Compaction
14+52 to 119+21	10% Shrink	0.1'

Earthwork Notes:
1. Roadway Excavation does not include Pavement Removal.

2. The Pavement Removal volume is for information only. The calculation assumes a 3" pavement depth exists below the area of the accepted quantity for bid item number 2020029 which equals 3,093 SY.

4. Sawcutting is incidental to the cost of pavement removal.

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

Priscilla S. Cornelio, P.E., Director

Pima County Department of Transportation

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 34006 DOUGLAS MICHAEL MOSEKE ARIZONA, U.S.A. Expires 09/30/2017

Stantec
5151 East Broadway Blvd. Suite 400
TUCSON, AZ 85711
PH: [520] 750-7474
FAX: [520] 750-7470
www.stantec.com

GENERAL NOTES

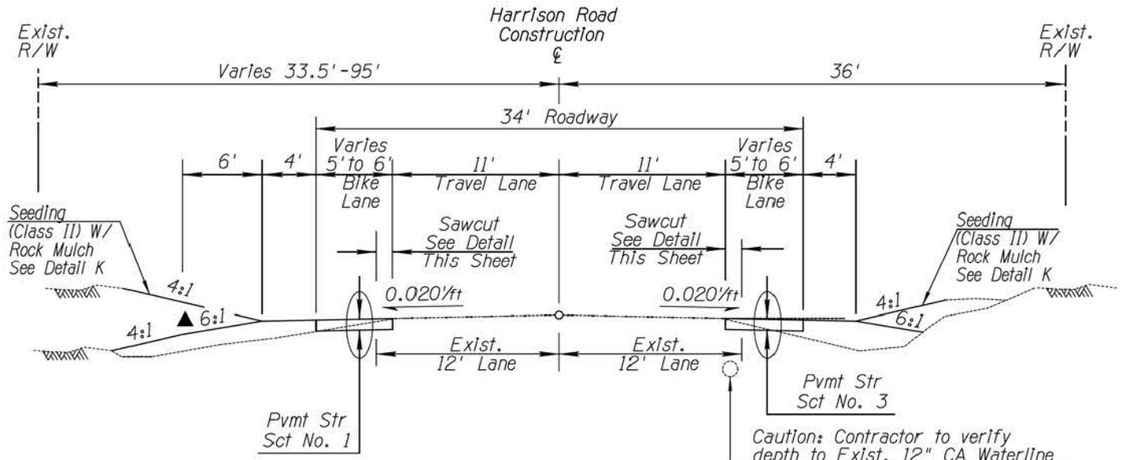
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 01C

SCALES: Horiz: Vert:

Sheet R2 of R10

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	3	60	

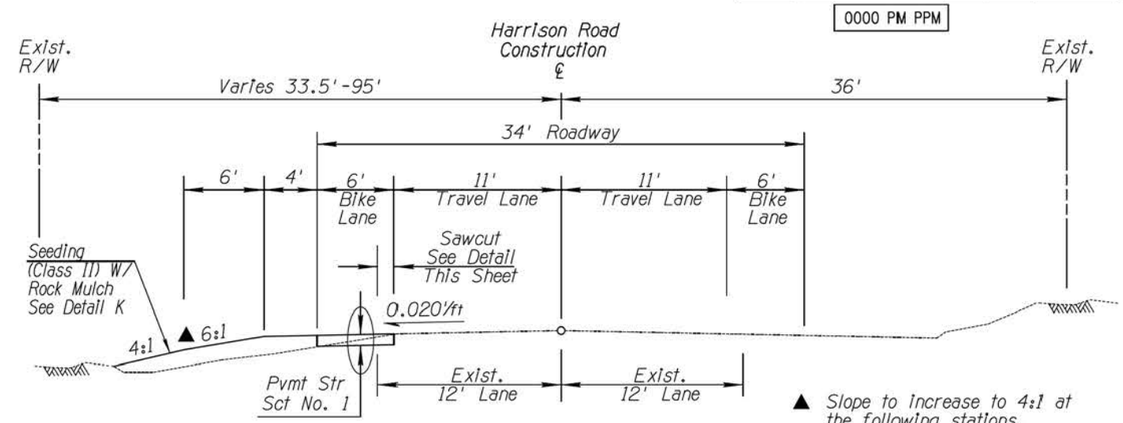
0000 PM PPM



▲ Slope to increase to 4:1 at the following stations.
Sta 46+10 to 48+27 (Left)

HARRISON ROAD
TYPICAL SECTION

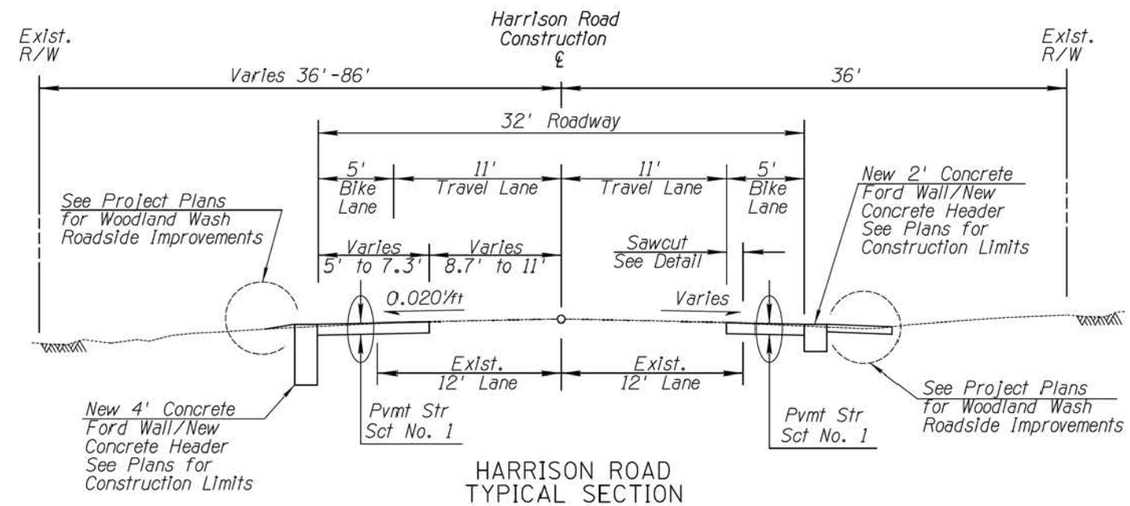
Sta 14+51.94 to 24+09.0
Sta 30+58.0 to 35+34.1
Sta 40+37.8 to 48+27.0



▲ Slope to increase to 4:1 at the following stations.
Sta 48+27 to 48+50 (Left)

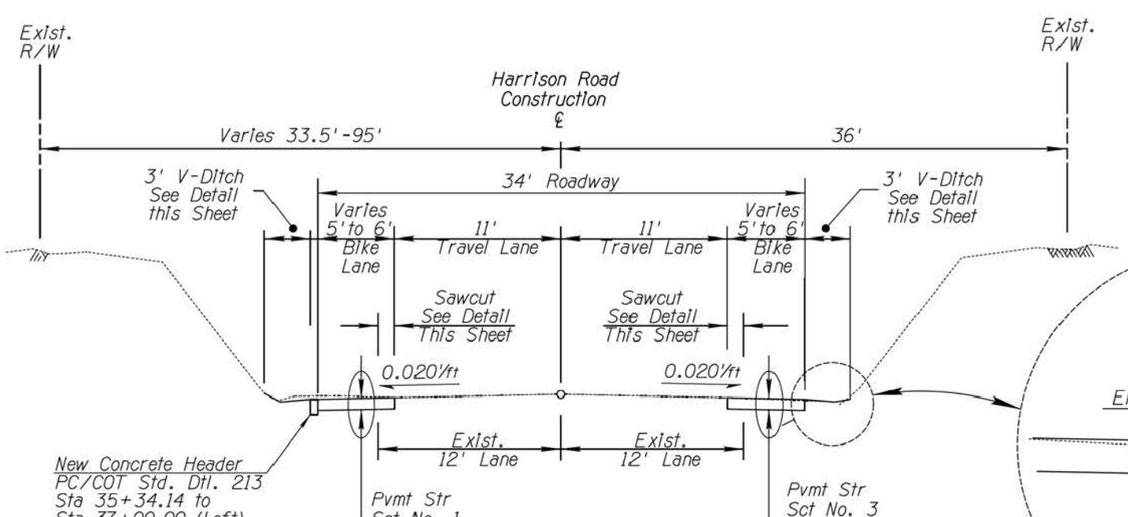
HARRISON ROAD
TYPICAL SECTION

Sta 48+27.0 to 52+93.0



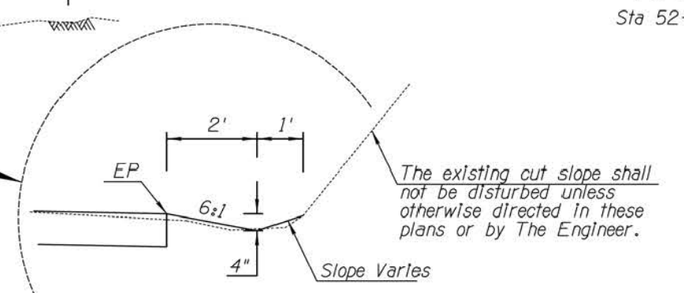
HARRISON ROAD
TYPICAL SECTION

Sta 52+93.0 to 55+16.44

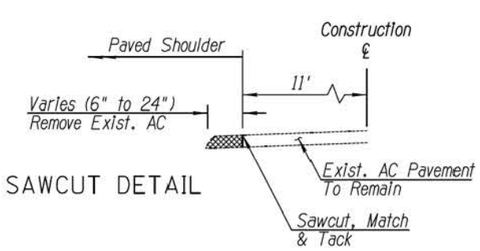


HARRISON ROAD
TYPICAL SECTION

Sta 24+09.0 to 30+58.0
Sta 35+34.1 to 40+37.8



3' V-DITCH DETAIL



SAWCUT DETAIL

Note: The cost of sawcutting shall be considered incidental to AC Removal, Item # 2020029

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

			Date
Designed	J DANA		04/2014
Drawn	J DANA		04/2014
Checked	D MOSEKE		04/2014
Proj. Engr.			

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Pima County Department of Transportation

TYPICAL SECTIONS
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: Vert:

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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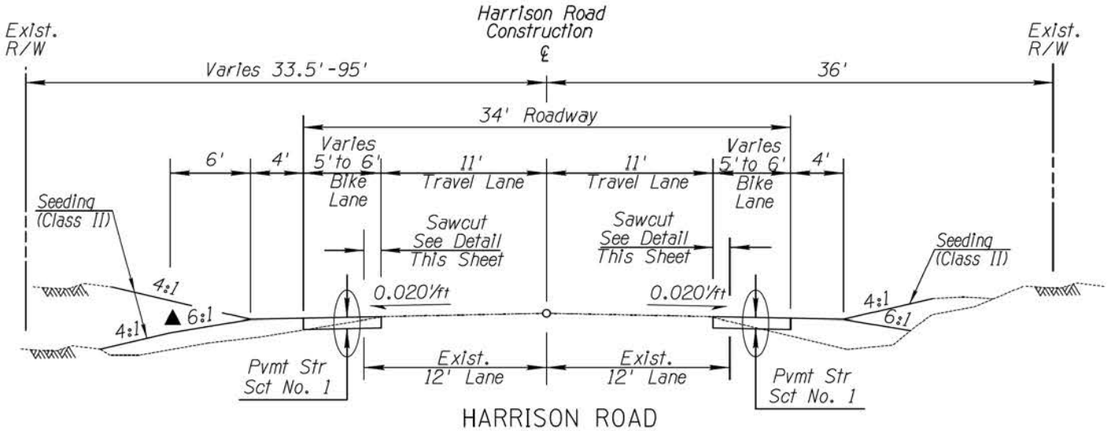
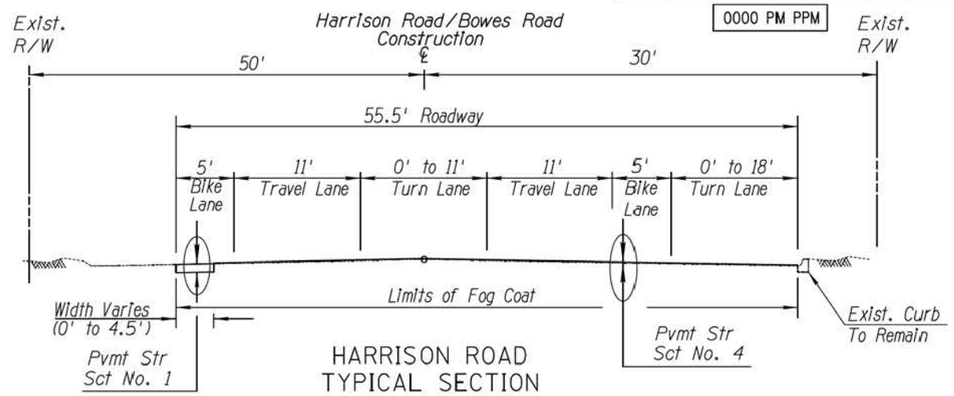
0000 PM PPM

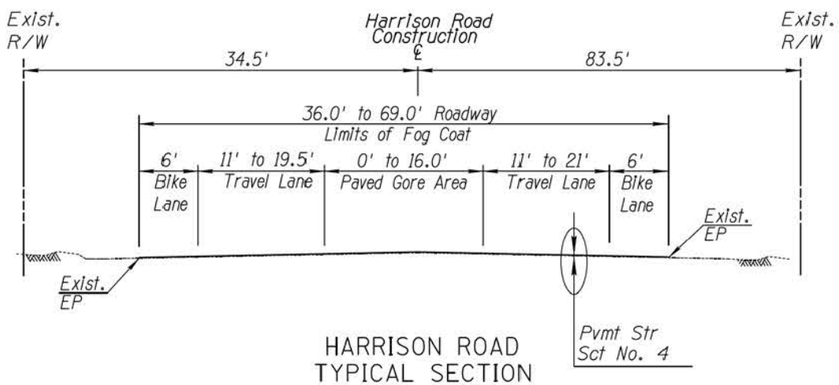


HARRISON ROAD
TYPICAL SECTION
Sta 55+16.44 to 88+84.2

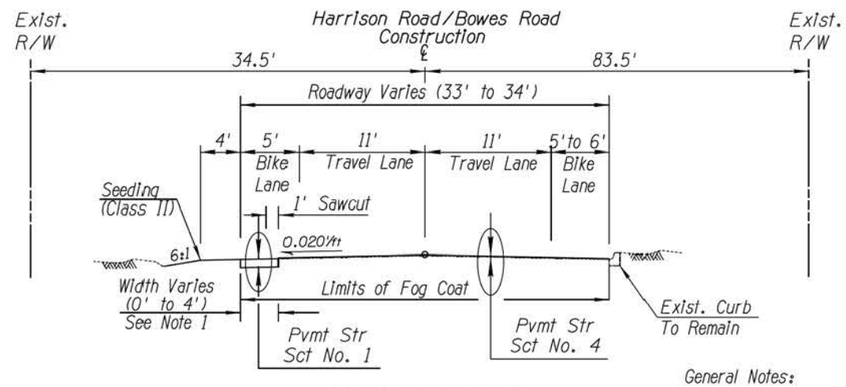
▲ Slope to increase to 4:1 at the following stations.
Sta 46+10 to 48+27 (Left)



HARRISON ROAD
TYPICAL SECTION
Sta 100+28.55 to 109+14.8



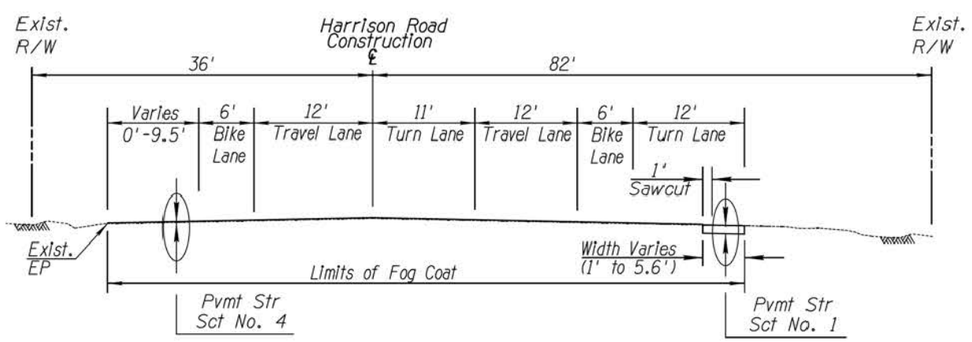
HARRISON ROAD
TYPICAL SECTION
Sta 88+84.2 to 96+81.63



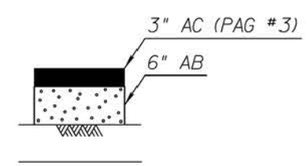
HARRISON ROAD
TYPICAL SECTION
Sta 109+14.8 to 119+21.86

General Notes:

1. See project plan sheets for limits of pavement removal and pavement replacement.

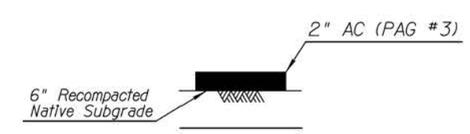


HARRISON ROAD
TYPICAL SECTION
Sta 96+81.63 to 100+28.55



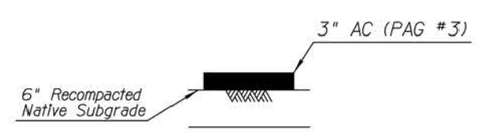
Total Thickness = 9"

PAVEMENT
STRUCTURAL SECTION NO. 1



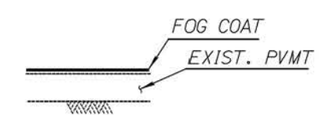
Total Thickness = 2"

PAVEMENT
STRUCTURAL SECTION NO. 2
(DRIVEWAYS)



Total Thickness = 3"

PAVEMENT
STRUCTURAL SECTION NO. 3



PAVEMENT
STRUCTURAL SECTION NO. 4

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

			Date
Designed	J DANA		04/2014
Drawn	J DANA		04/2014
Checked	D MOSEKE		04/2014
Proj. Engr.			

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TYPICAL SECTIONS
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
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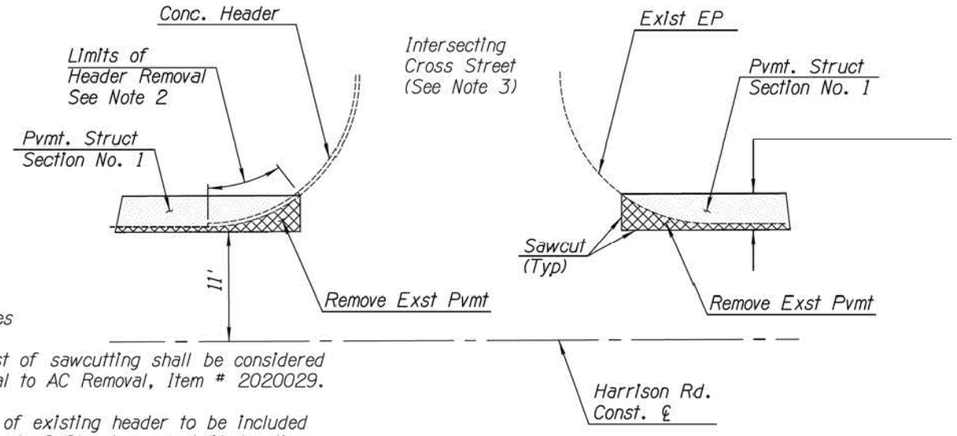
SCALES: Horiz: Vert:

Sheet R4 of R10

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	5	60	
		0000 PM PPM			

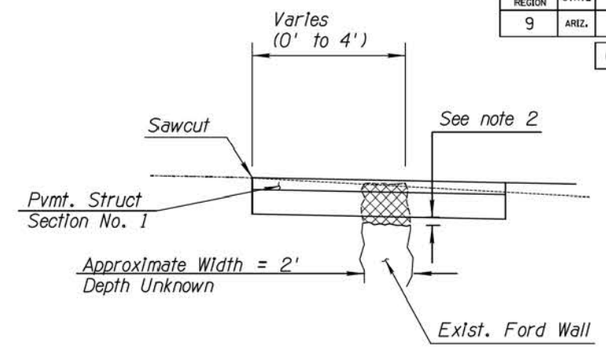


General Notes

1. The cost of sawcutting shall be considered incidental to AC Removal, Item # 2020029.
2. Removal of existing header to be included in Removal of Structures and Obstructions, bid item 2020001.
3. This Detail only Applies to Intersecting Cross Street Pvmt. returns. Paved Driveway returns shall remove and replace the pavement as directed on the Project Demolition and Roadway Plans.

DETAIL A

TYPICAL PVMT REMOVAL AT PAVED RETURNS



General Notes

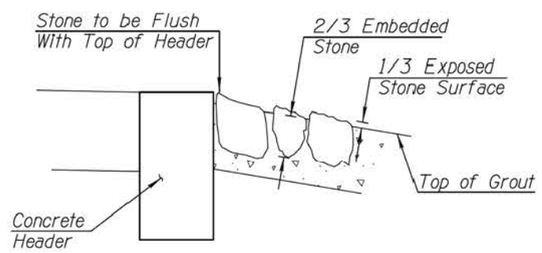
1. See project demo plans for limits of existing ford walls.
2. Remove top of existing ford wall to a depth no less than 2" below new subgrade.
3. Removal of existing ford walls to be included in bid item 2020001.

DETAIL C

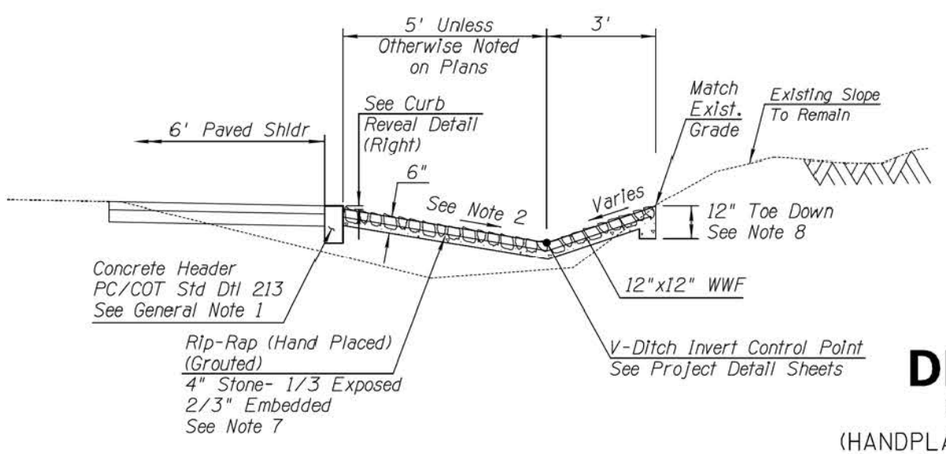
EXISTING FORD WALL REMOVAL

General Notes

1. See project plans for Sta/Off of new concrete header.
2. Foreslope shall be 6:1 unless otherwise directed on the project detail sheets.
3. Construction of the Rip Rap (Handplaced) (Grouted) channel shall be paid per bid item #9130009.
4. Concrete Header shall be paid per bid item #9080402.
5. 12"x12" WWF shall be considered incidental to the cost of the installation of the Rip Rap channel.
6. A general effort shall be made to have the flat edge of the Rip Rap stone be the exposed surface.
7. Width of grout line between rocks shall be no less than ½" and no greater than 2".
8. Wrap entire Rip Rap channel protection perimeter with 12" toe down. This includes the upstream and downstream edge of channel as well.

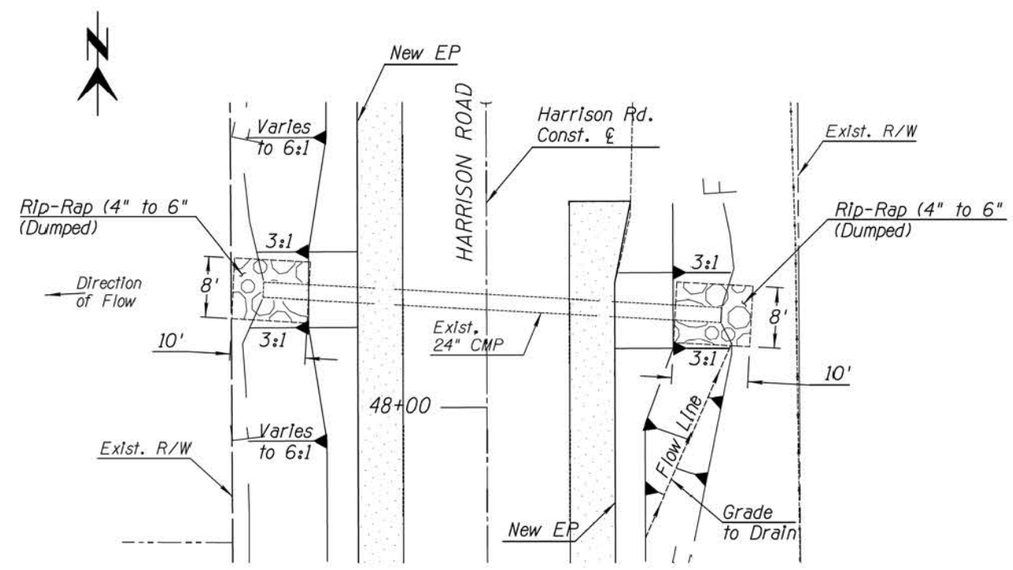


Curb Reveal Detail



DETAIL B

RIP-RAP (HANDPLACED) (GROUTED)



General Notes

1. Construction of the Rip Rap (Dumped) inlet and outlet protection shall be paid per bid item #9130001.
2. No direct payment will be made for the outlet and inlet grading. All earthwork and grading shall be considered incidental to the roadway excavation.

DETAIL D

STA 48+13, CMP INLET & OUTLET RIP-RAP PROTECTION

SCALES:	Horiz: 1"=10' Vert:	Sheet R5 of R10	Page 5 of 60

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) DOUGLAS MICHAEL MOSEKE 34006 ARIZONA U.S.A. Expires 09/30/2014

Stantec
5151 East Broadway Blvd. Suite 400
TUCSON, AZ 85711
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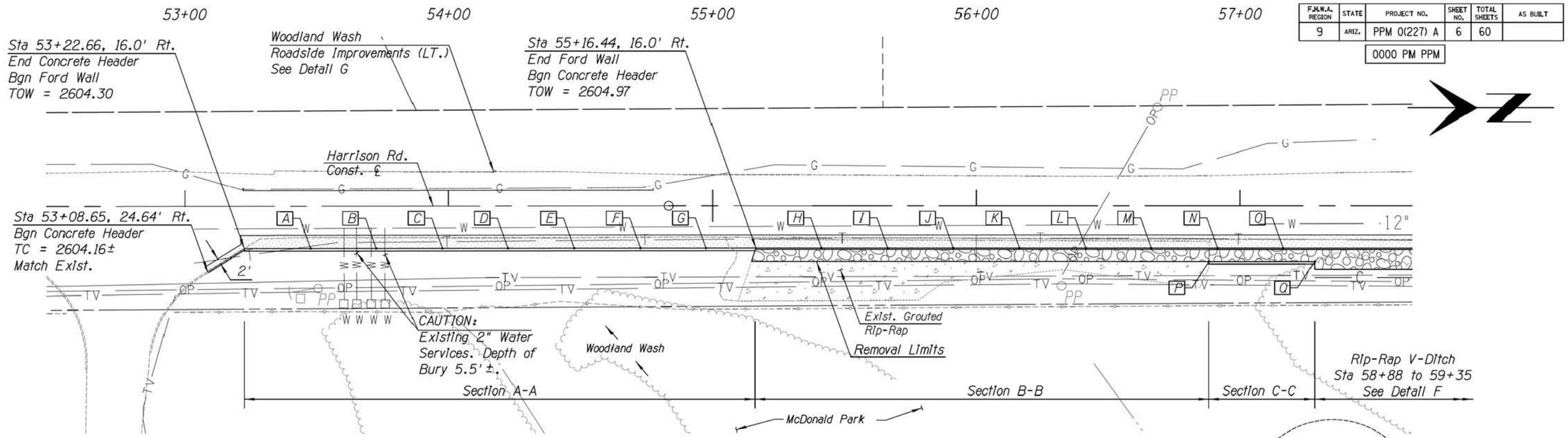
FAX: [520] 750-7470
www.stantec.com

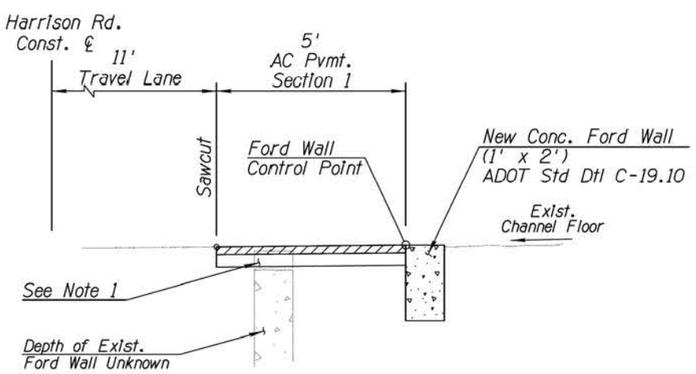
ROADWAY DETAILS

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

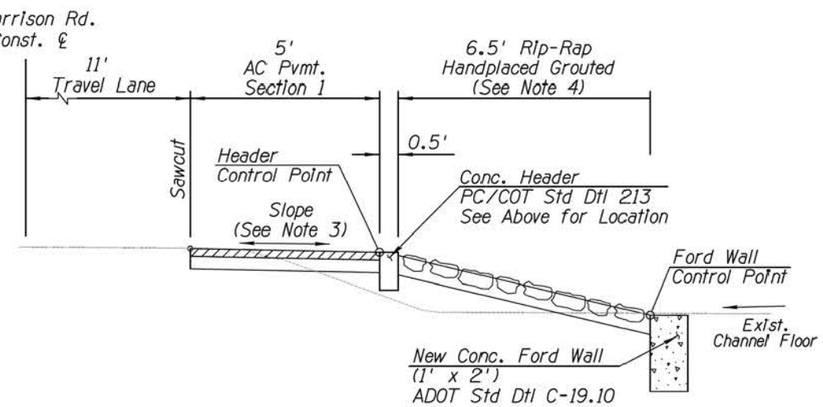
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	6	60	

0000 PM PPM

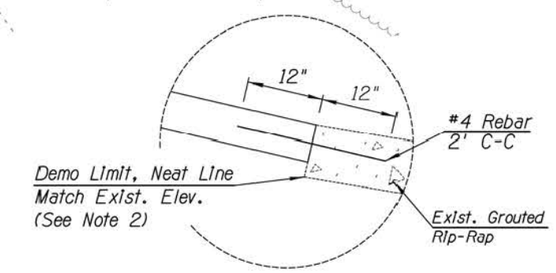




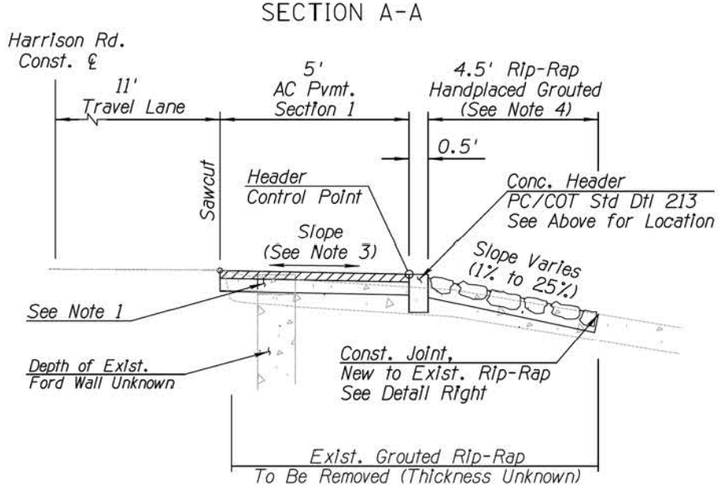
SECTION A-A



SECTION C-C



Const. Joint
New to Exist Rip-Rap



SECTION B-B

TOP OF FORD WALL & HEADER LOCATION TABLE		
Pnt	Station/Offset	Top of Wall/Header
A	53+47.66, 16.00' Rt	2604.08
B	53+77.66, 16.00' Rt	2603.76
C	53+97.66, 16.00' Rt	2603.50
D	54+22.66, 16.00' Rt	2603.33
E	54+47.66, 16.00' Rt	2603.35
F	54+72.66, 16.00' Rt	2603.93
G	54+97.68, 16.00' Rt	2604.51
H	55+41.44, 16.00' Rt	2605.49
I	55+66.44, 16.00' Rt	2605.95
J	55+91.44, 16.00' Rt	2606.41
K	56+16.44, 16.00' Rt	2606.81
L	56+41.44, 16.00' Rt	2607.23
M	56+66.44, 16.00' Rt	2607.59
N	56+91.44, 16.00' Rt	2607.96
O	57+16.44, 16.00' Rt	2608.46
P	56+88.06, 23.00' Rt	2606.90
Q	57+28.33, 23.00' Rt	2607.68

General Notes:

1. Remove top of existing ford wall to a depth no less than 2" below subgrade. See Detail C, Existing Ford Wall Removal.
2. If large boulders or other unknown obstructions fall within the demolition limit line, the field engineer shall determine alternate limits of grouted rip-rap removal.
3. Cross slope of new bike lane pavement section shall match cross slope of existing roadway. Warp pavement cross slope as required.
4. Rip-Rap (Handplaced) (Grouted) shall be constucted in accordance to Detail B unless otherwise directed.
5. Concrete Header shall receive payment per bid item #9080402.
6. Construction of the Rip Rap (Handplaced) (Grouted) channel shall receive payment per bid item #9130009.
7. 2' Concrete Ford Wall shall receive payment per bid item #9080502.

DETAIL E

WOODLAND WASH
ROADSIDE IMPROVEMENTS (RT.)

0 10 20 30 40

SCALES: Horiz: 1" = 20' Vert:

Sheet R6 of R10

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

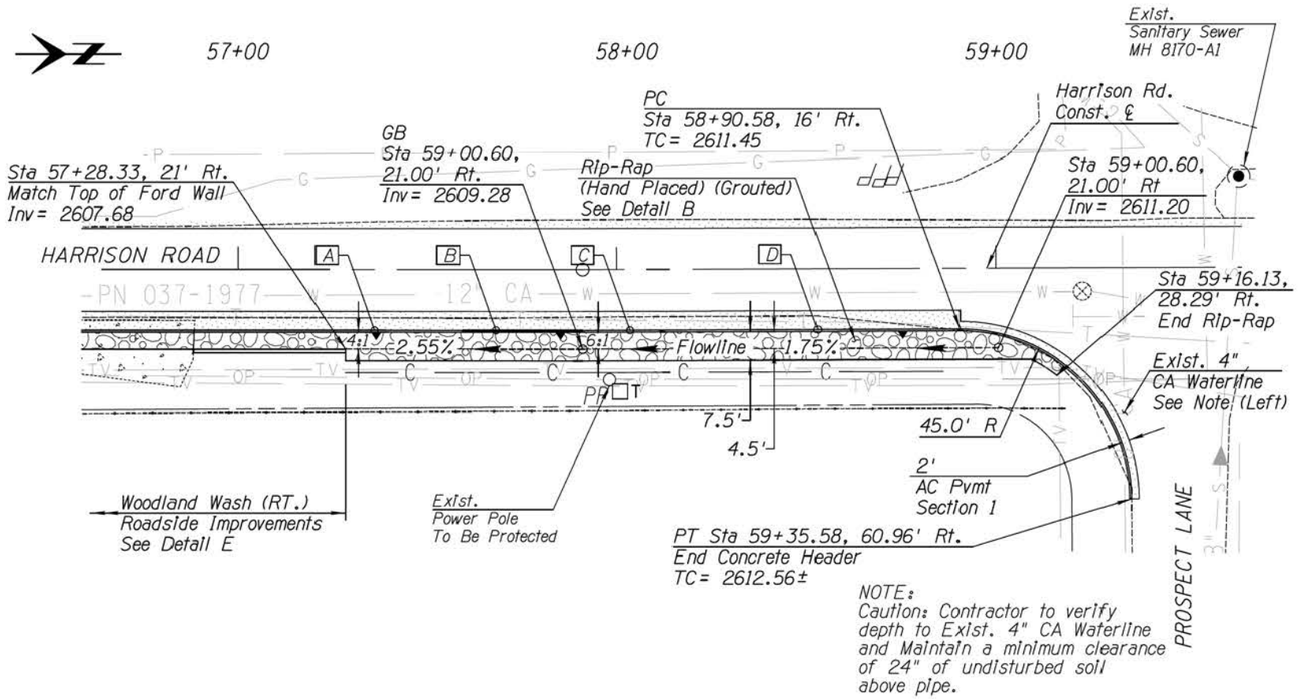
No.	Revision Description	Engineer	Date

Stantec
5151 East Broadway Blvd. Suite 400
Tucson, AZ 85711
PH: (520) 750-7474
FAX: (520) 750-7470
www.stantec.com

ROADWAY DETAILS
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

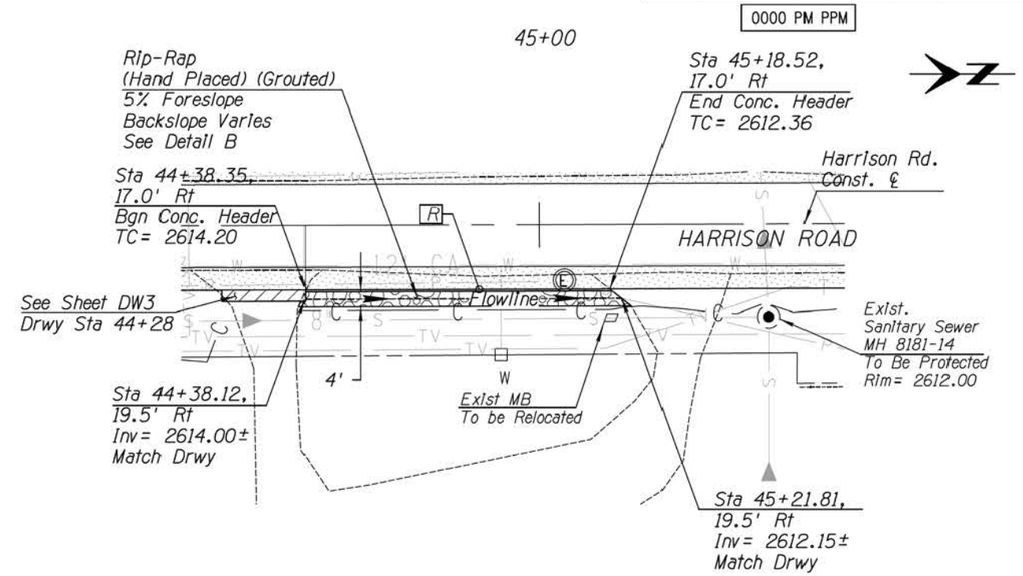
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	7	60	

0000 PM PPM



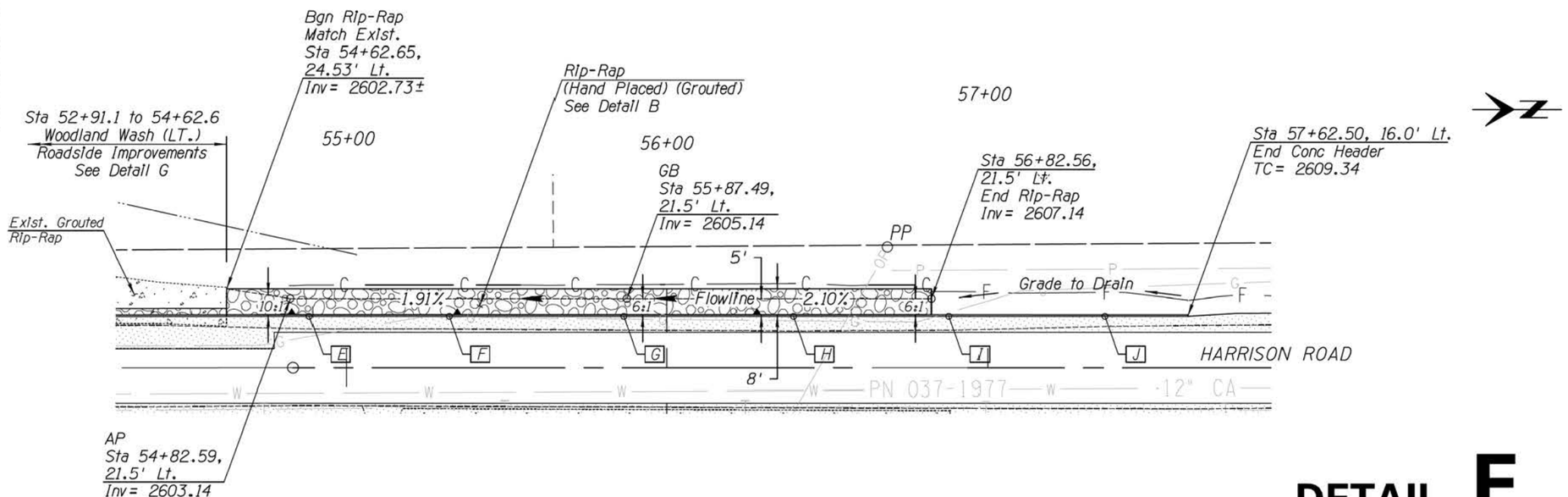
NOTE:
Caution: Contractor to verify depth to Exist. 4" CA Waterline and Maintain a minimum clearance of 24" of undisturbed soil above pipe.

STA 56+88 TO STA 59+35 (RT.)



STA 44+38 TO STA 45+19 (RT.)

TOP OF HEADER LOCATION TABLE		
Pnt	Station/Offset	Top of Header
A	57+36.00, 16.00' Rt	2608.82
B	57+68.00, 16.00' Rt	2609.52
C	58+03.00, 16.00' Rt	2610.29
D	58+53.00, 16.00' Rt	2611.02
E	54+88.50, 16.00' Lt	2603.70
F	55+32.00, 16.00' Lt	2604.77
G	55+86.50, 16.00' Lt	2605.95
H	56+39.50, 16.00' Lt	2606.94
I	56+88.00, 16.00' Lt	2607.96
J	57+36.50, 16.00' Lt	2608.88



STA 54+62 TO STA 56+82 (LT.)

DETAIL F

RIP-RAP V-DITCH
ROADSIDE IMPROVEMENTS
(1 of 2)

0 10 20 30 40

SCALES:	Horiz: 1"=20' Vert:	Sheet R7 of R10	Page 7 of 60

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

			Date
Designed	J DANA		04/2014
Drawn	J DANA		04/2014
Checked	D MOSEKE		04/2014
Proj. Engr.			

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Tucson, AZ 85711
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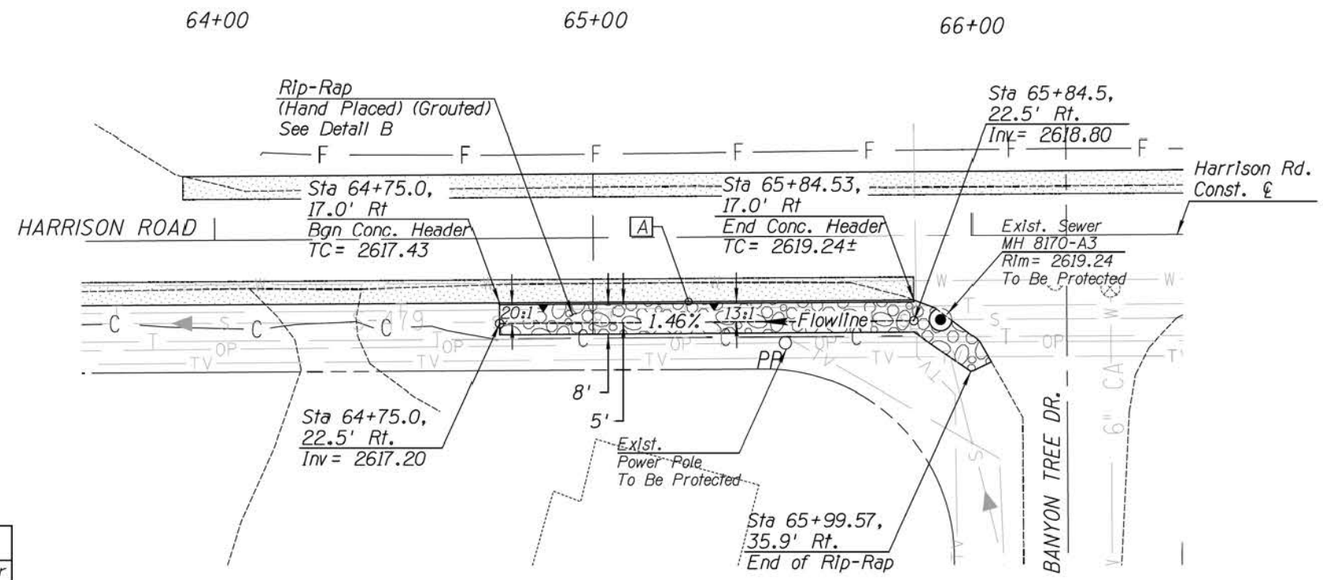
www.stantec.com

ROADWAY DETAILS
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

Exp: 09/30/2014

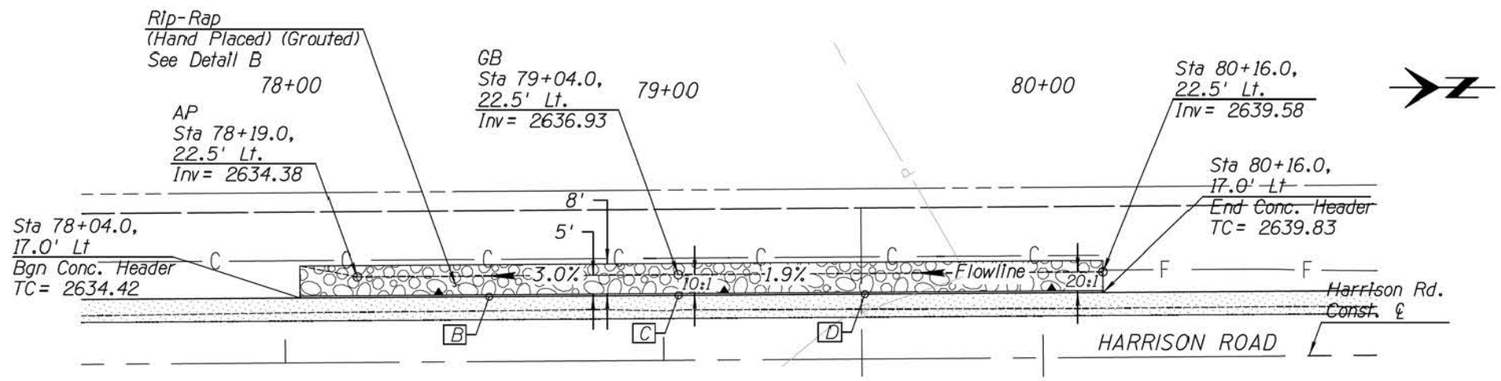
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	8	60	

0000 PM PPM

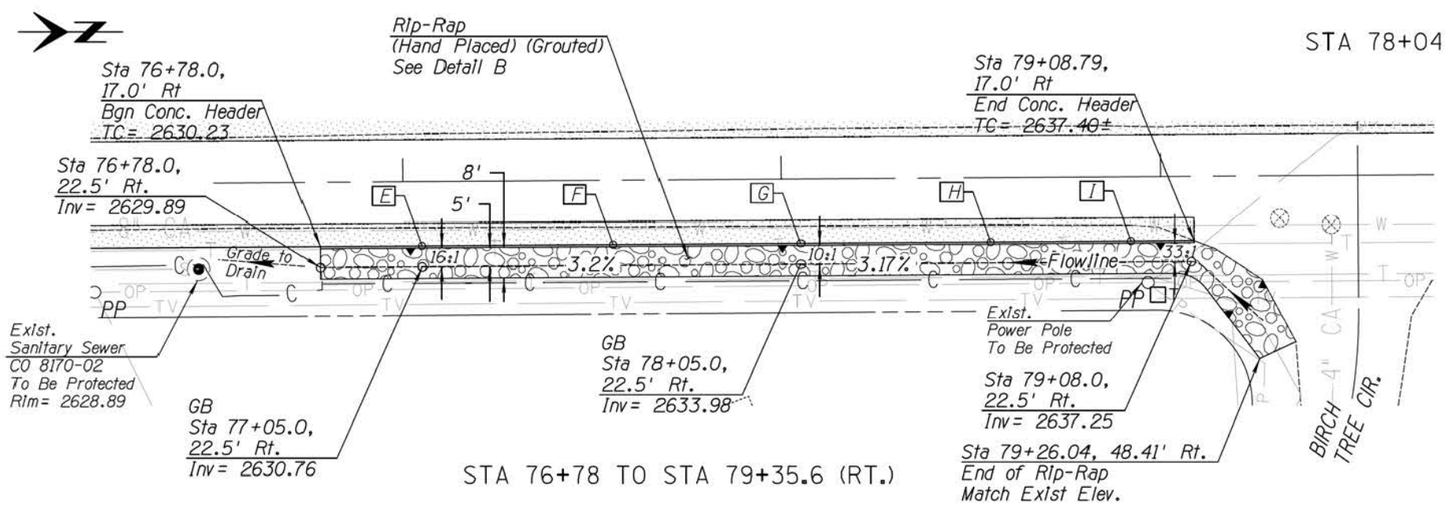


STA 64+58 TO STA 66+04 (RT.)

TOP OF HEADER LOCATION TABLE		
Pnt	Station/Offset	Top of Header
A	65+25.00, 17.00' Rt	2618.26
B	78+54.00, 17.00' Lt	2636.01
C	79+04.00, 17.00' Lt	2637.43
D	79+53.00, 17.00' Lt	2638.42
E	77+05.00, 17.00' Rt	2631.06
F	77+55.50, 17.00' Rt	2632.86
G	78+05.00, 17.00' Rt	2634.48
H	78+55.00, 17.00' Rt	2636.17
I	78+92.00, 17.00' Rt	2636.99



STA 78+04 TO STA 80+16 (LT.)



STA 76+78 TO STA 79+35.6 (RT.)

DETAIL F

RIP-RAP V-DITCH
ROADSIDE IMPROVEMENTS
(2 of 2)

0 10 20 30 40

SCALES: Horiz: 1"=20' Vert:

Sheet R8 of R10

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

Pima County Department of Transportation

ROADWAY DETAILS

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

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TUCSON, AZ 85711
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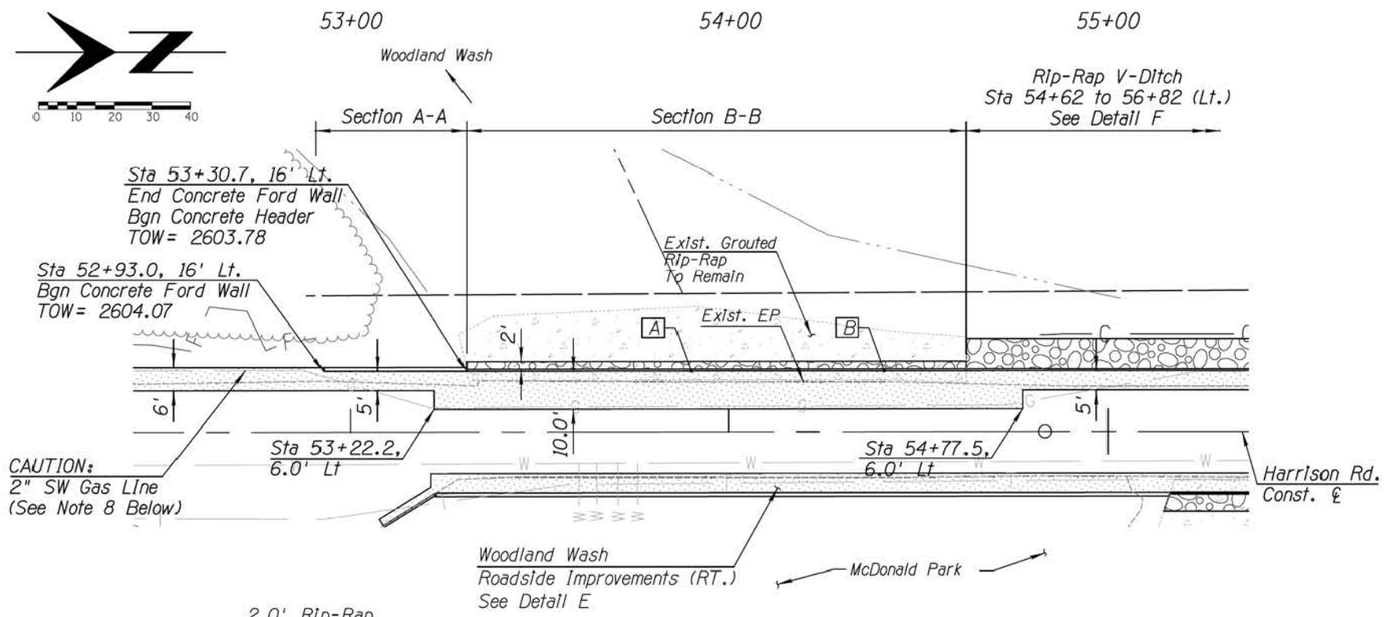
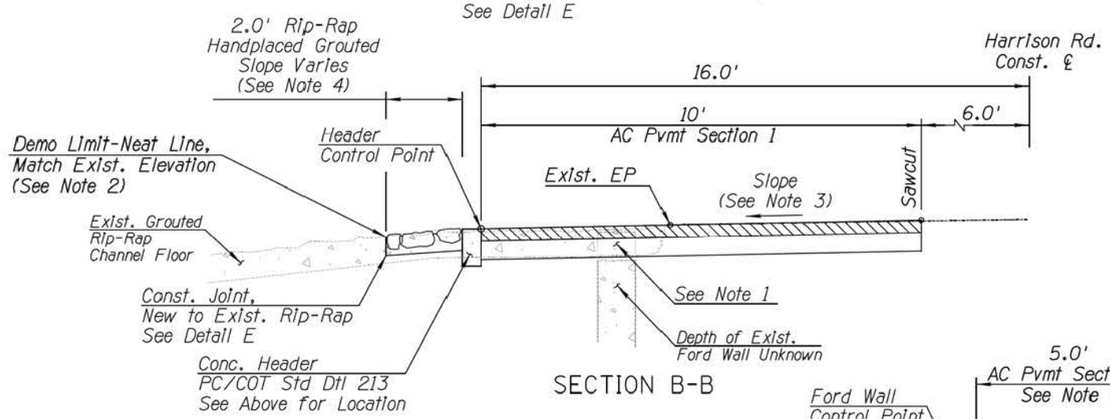
www.stantec.com

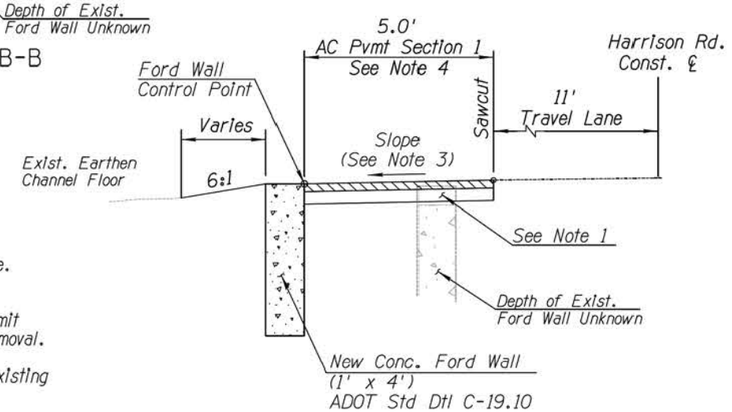
Expires 09/30/2014





SECTION B-B

TOP OF HEADER LOCATION TABLE		
Pnt	Station/Offset	Top of Header
A	53+90.00, 16.00' Lt	2602.96
B	54+41.00, 16.00' Lt	2603.10



SECTION A-A

General Notes:

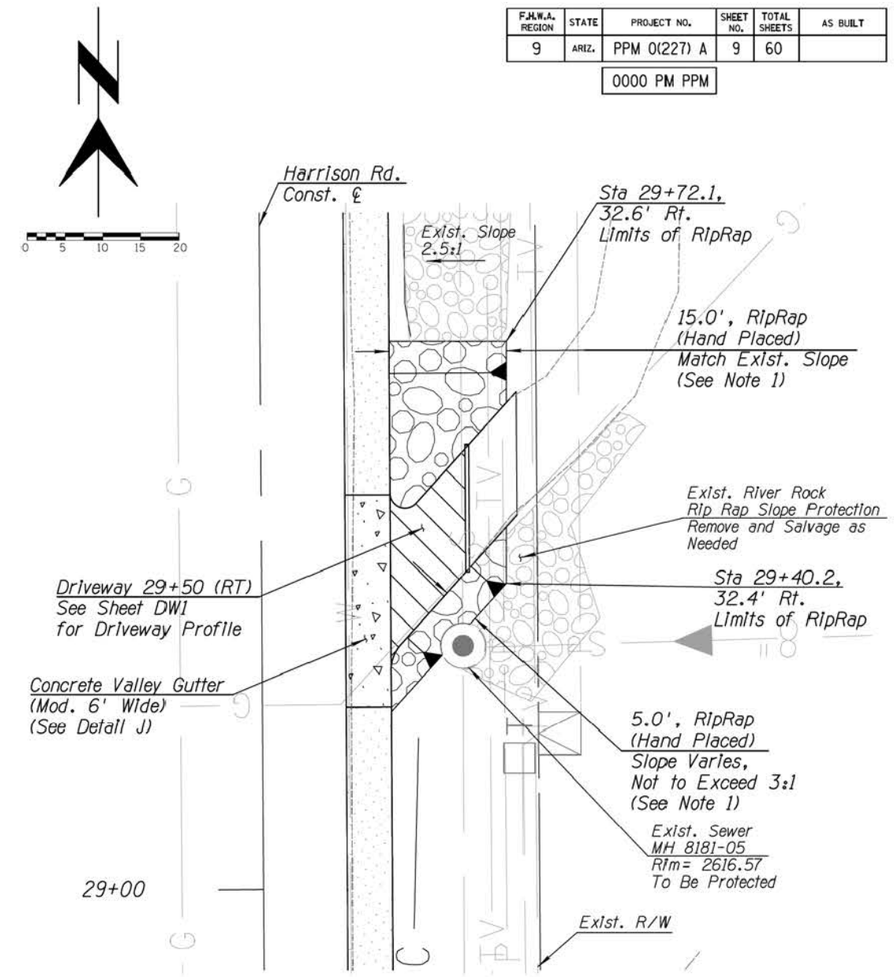
1. Remove top of existing ford wall to a depth no less than 2" below subgrade. See Detail C, Existing Ford Wall Removal.
2. If large boulders or other unknown obstructions fall within the demolition limit line, the field engineer shall determine alternate limits of grouted rip-rap removal.
3. Cross slope of new bike lane pavement section shall match cross slope of existing roadway. Warp pavement cross slope as required.
4. Rip-Rap (Handplaced) (Grouted) shall be constructed in accordance to Detail B unless otherwise directed.
5. Concrete Header shall receive payment per bid item #9080402.
6. Construction of the Rip Rap (Handplaced) (Grouted) channel shall receive payment per bid item #9130009.
7. 4' Concrete Ford Wall shall receive payment per bid item #9080504.
8. SW Gas requires a minimum of 1' separation between SW Gas facilities and new structures. The beginning of the ford wall may be adjusted as required to maintain this separation.

DETAIL G

WOODLAND WASH
ROADSIDE IMPROVEMENTS (LT.)

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	9	60	

0000 PM PPM



General Notes:

1. The new rip rap material shall match the existing slope protection in size, gradation, smoothness and color. Prior to placement of the new rip rap slope protection, the contractor shall provide a sample to the project field engineer to verify the new material matches the existing material.
2. The Rip Rap (Hand Placed) slope protection shall receive payment per bid item number 9130008.

DETAIL H

DRWY 29+50 RT.
RIVER ROCK SLOPE PROTECTION

Pima County Department of Transportation

ROADWAY DETAILS
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

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Tucson, AZ 85711
PH: (520) 750-7474
FAX: (520) 750-7470
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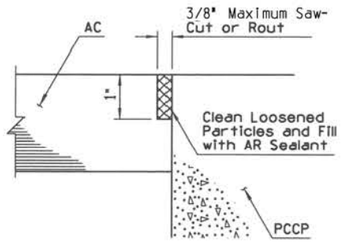
No.	Revision Description	Engineer	Date

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

Priscilla S. Cornelio, P.E., Director

SCALES: Horiz: 1" = 20' Vert:

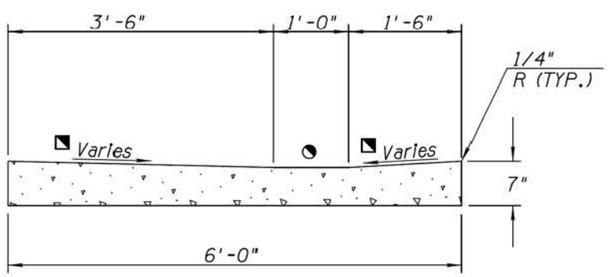
Sheet R9 of R10



AC/PCCP EDGE SEAL JOINT
S Joint
(Where Specified on Plans)

DETAIL I

AC/PCCP EDGE SEAL JOINT



CONCRETE VALLEY GUTTER
(MOD. 6' WIDE) SECTION

Trowel Finish

Max. Slope = 8%
Concrete Shall be Class "B"
F'c = 2,500 PSI

General Notes:

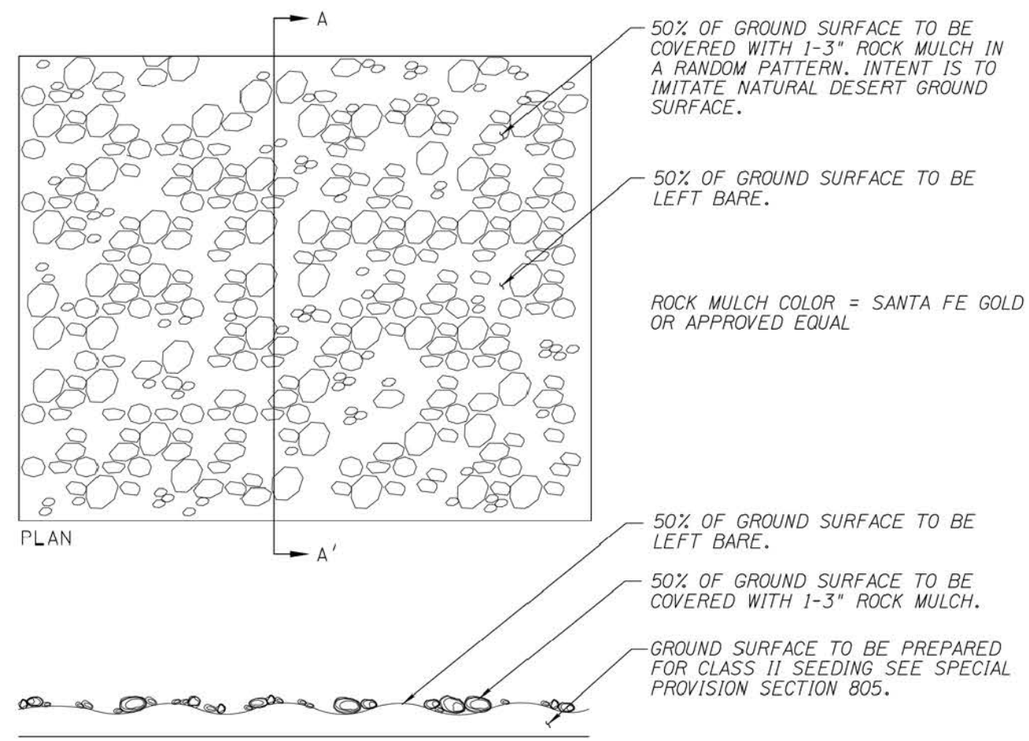
1. Construction of the Concrete Valley Gutter (Mod. 6' Wide) shall be paid per bid item No. 9080131.
2. See Driveway Detail Sta. 29+50 (Rt), Sheet DW1, for construction limits and grading.
3. Unless otherwise directed per this detail, the Concrete Valley Gutter (Mod. 6' Wide) sall be constructed in accordance with PC/COT Std Dtl 208.

DETAIL J

CONCRETE VALLEY GUTTER
(MOD. 6' WIDE)

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	10	60	

0000 PM PPM



PLAN

SECTION A-A'

NOTES:
1.NO PRE-EMERGENT HERBICIDES TO BE USED IN SEEDED AREAS.

2.GROUND SURFACE TO BE PREPARED FOR CLASS II SEEDING SEE SPECIAL PROVISION SECTION 805.

3.SEEDING TO BE APPLIED AFTER APPLICATION OF ROCK MULCH

1-3" ROCK MULCH	
SIEVE SIZE	PERCENT PASSING
3"	100%
1"	10-20%

DETAIL K

ROCK MULCH SPECIAL

SCALES:	Horiz: 1"=10' Vert:	Sheet R10 of R10	Page 10 of 60

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

Stantec
5151 East Broadway Blvd. Suite 400
Tucson, AZ 85711
PH: (520) 750-7474
FAX: (520) 750-7470
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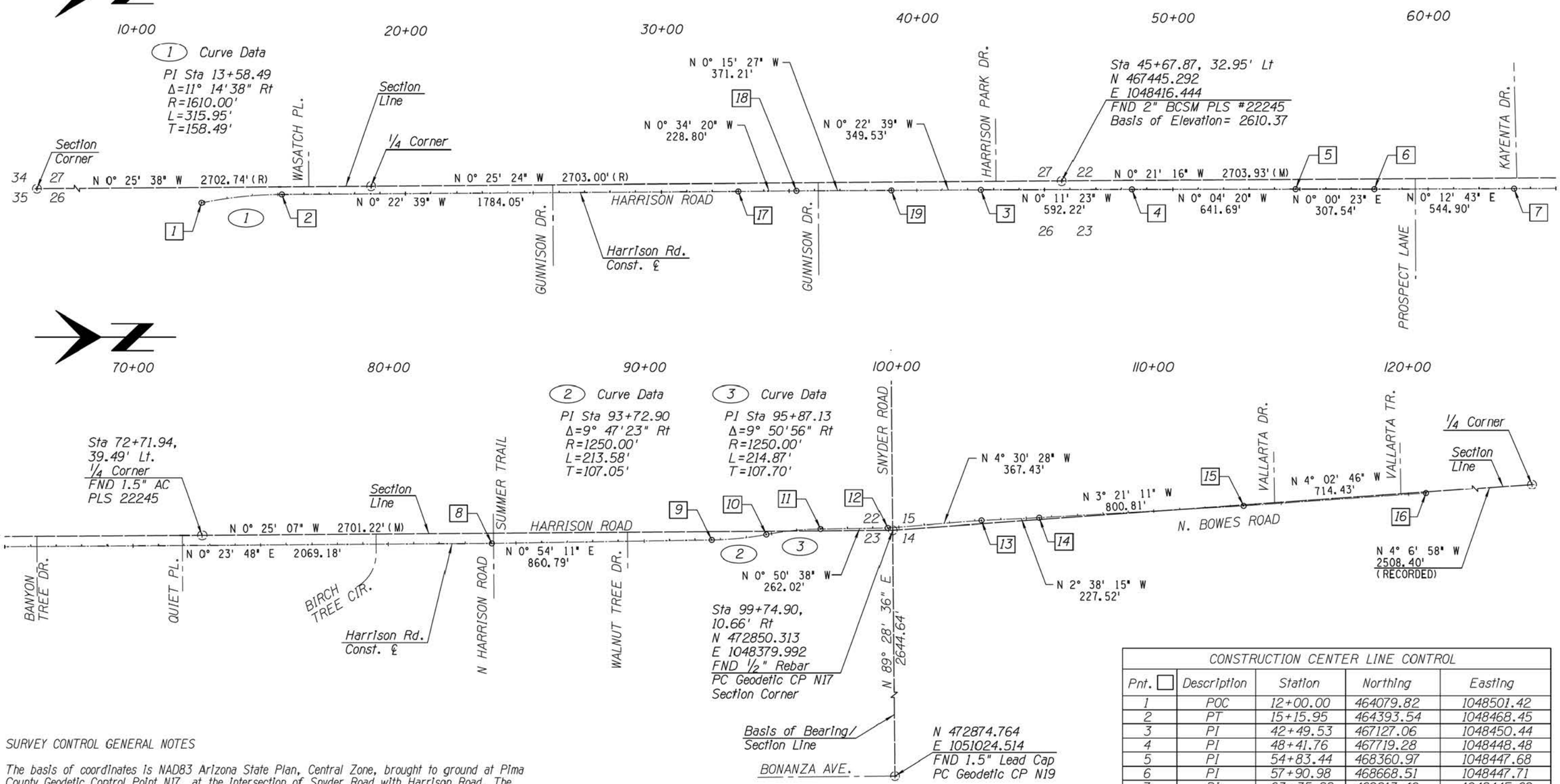
ROADWAY DETAILS
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	11	60	

0000 PM PPM



CONSTRUCTION CENTER LINE CONTROL				
Pnt. ☐	Description	Station	Northing	Easting
1	POC	12+00.00	464079.82	1048501.42
2	PT	15+15.95	464393.54	1048468.45
3	PI	42+49.53	467127.06	1048450.44
4	PI	48+41.76	467719.28	1048448.48
5	PI	54+83.44	468360.97	1048447.68
6	PI	57+90.98	468668.51	1048447.71
7	PI	63+35.88	469213.40	1048445.69
8	PI	84+05.06	471282.53	1048431.37
9	PC	92+65.85	472143.21	1048417.80
10	PRC	94+79.42	472355.44	1048396.25
11	PT	96+94.30	472568.96	1048374.68
12	PI	99+56.32	472830.95	1048370.82
13	PI	103+23.76	473197.26	1048341.95
14	PI	105+51.28	473424.53	1048331.48
15	PI	113+52.09	474223.97	1048284.64
16	PI	120+66.52	474936.62	1048234.23
17	PI	33+00.00	466177.55	1048456.70
18	PI	35+28.80	466406.33	1048454.41
19	PI	39+00.00	466777.54	1048452.75

LEGEND

- Exist. Survey Monument
- Survey Control Point
- Section Line
- Construction ℄
- (3) ℄ Curve Data Number
- ☐ ℄ Point Data Number

SURVEY CONTROL GENERAL NOTES

The basis of coordinates is NAD83 Arizona State Plan, Central Zone, brought to ground at Pima County Geodetic Control Point N17, at the intersection of Snyder Road with Harrison Road. The coordinate value at this point is N 472850.313 E 1048379.992. All project distances are ground measurements.

The basis of bearing for this project is the north line of the northwest quarter of Section 23, Township 13 South, Range 15 East, between a found 0.5-inch rebar at the intersection of Snyder Road with Harrison Road, being the NW corner of said section (Pima County geodetic control point N17) and a found 1.5-inch lead cap at the intersection of Snyder Road with Bonanza Avenue, being the north 1/4 corner of said section (Pima County geodetic control point N19). The bearing of said line is N 89°28'36" E.

The basis of elevations for this project is NAVD 88. The project benchmark is Pima County geodetic control point R17, a 2-inch brass cap survey monument situated north west of the mail box on the south side of the shared driveway to #4001, #4011 and #4021 N. Harrison Road. The elevation of said benchmark is 2,610.37 feet, NAVD 88.

The control points used for establishing the construction centerline are calculated points.

SCALES:	Horiz: 1"=200' Vert:	Sheet HC1 of HC1	Page 11 of 60

Pima County Department of Transportation

SURVEY CONTROL PLAN
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

Stantec
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Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

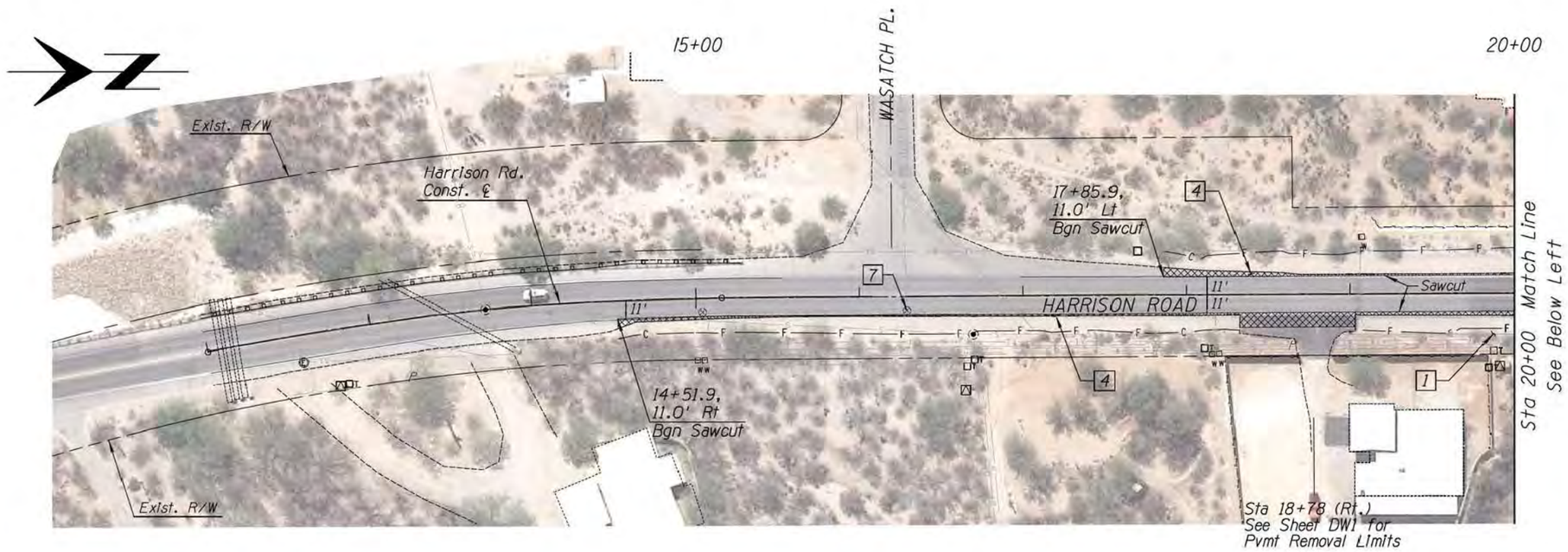
No.	Revision Description	Engineer	Date

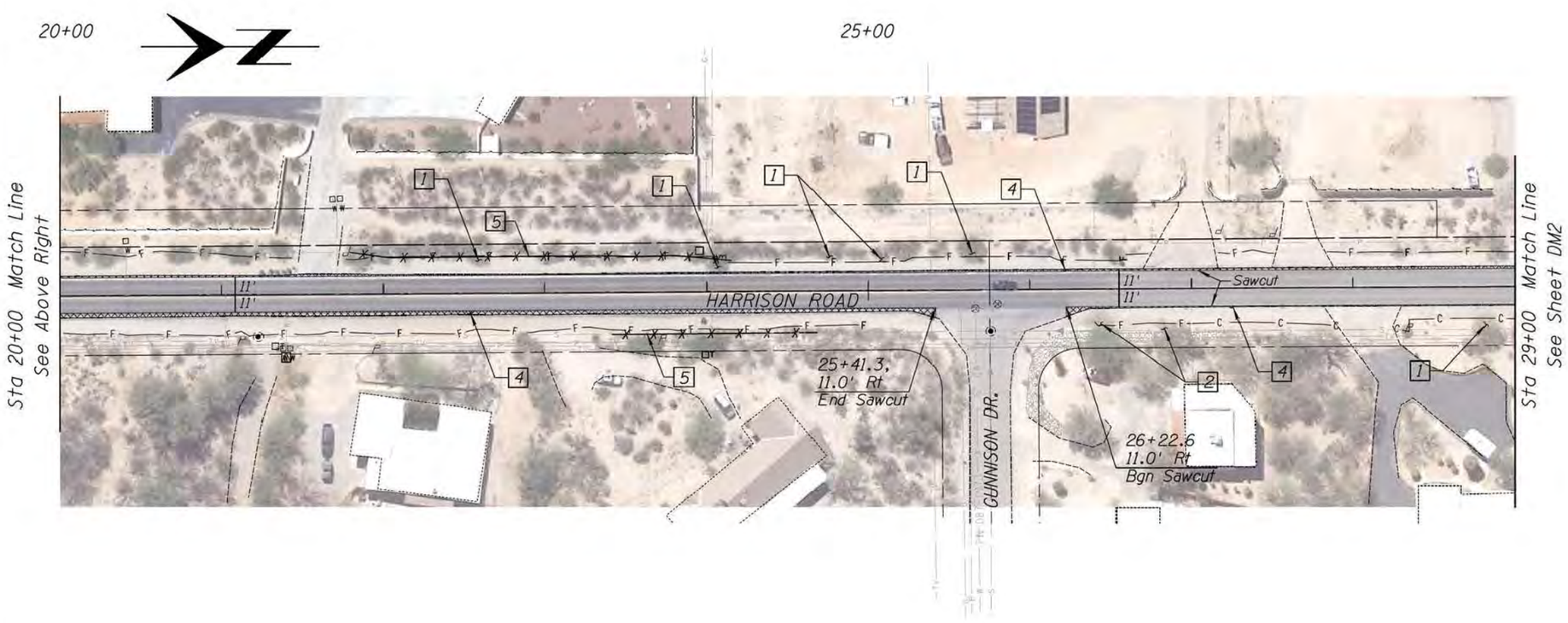
REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 34006 DOUGLAS MICHAEL MOSEKE ARIZONA U.S.A. Expires 09/30/2014

9/17/2014 V:\1328171\ACI\TSTE\181718826 - HARRISON ROAD\DESIGN\DGN\826-R2 CONTROL_R1.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	12	60	

0000 PM PPM





DEMOLITION NOTES

1. Existing Vegetation with overhanging branches that may conflict with construction. Prune by certified arborist prior to construction.

2. Existing Tree on adjacent property with overhanging branches that may conflict with construction and require pruning. See Special Provisions 201-3.05. No pruning shall be performed without notification of Pima County DOT Community Relations.
Bid Item 8061700

4. Removal of Asphaltic Concrete
Bid Item 2020029
465 SY

5. Preservation Fencing
Bid Item 2010004
349 LF

7. Adjust Existing Valve Box and Cover
Tucson Water SD 305
Bid Item 5103101
1 EA

For Demolition General Notes, See Sheet R2

LEGEND

X X X	Preservation Fencing
	Removal of Asphaltic Concrete
C —— C	Cut Limits
F —— F	Fill Limits

Priscilla S. Cornelio, P.E., Director

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) DOUGLAS MICHAEL MOSEKE No. 34006 Date Signed 09/20/14 ARIZONA U.S.A. Expires 09/30/2014

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Pima County Department of Transportation

DEMOLITION PLANS

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 40' Vert: | Sheet DM1 of DM6 | Page 12 of 60

9/11/2014 V:\1528171\active\181710826 - HARRISON ROAD\DESIGN\DGN\R2_DEMO01.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	13	60	
		0000 PM PPM			

DEMOLITION NOTES

1. Existing Vegetation with overhanging branches that may conflict with construction. Prune by certified arborist prior to construction. Bid Item 8061700
2. Existing Tree on adjacent property with overhanging branches that may conflict with construction and require pruning. See Special Provisions 201-3.05. No pruning shall be performed without notification of Pima County DOT Community Relations. Bid Item 8061700
3. Remove fountain grass prior to Clearing and Grubbing
4. Removal of Asphaltic Concrete Bid Item 2020029 725 SY
5. Preservation Fencing Bid Item 2010004 537 LF
6. Removal of Structures and Obstructions Bid Item 2020001 1 LS
7. Adjust Existing Valve Box and Cover Tucson Water SD 305 Bid Item 5103101 3 EA

For Demolition General Notes, See Sheet R2

LEGEND

- Preservation Fencing
- Removal of Asphaltic Concrete
- Removal of Structures and Obstructions
- C —— C Cut Limits
- F —— F Fill Limits

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

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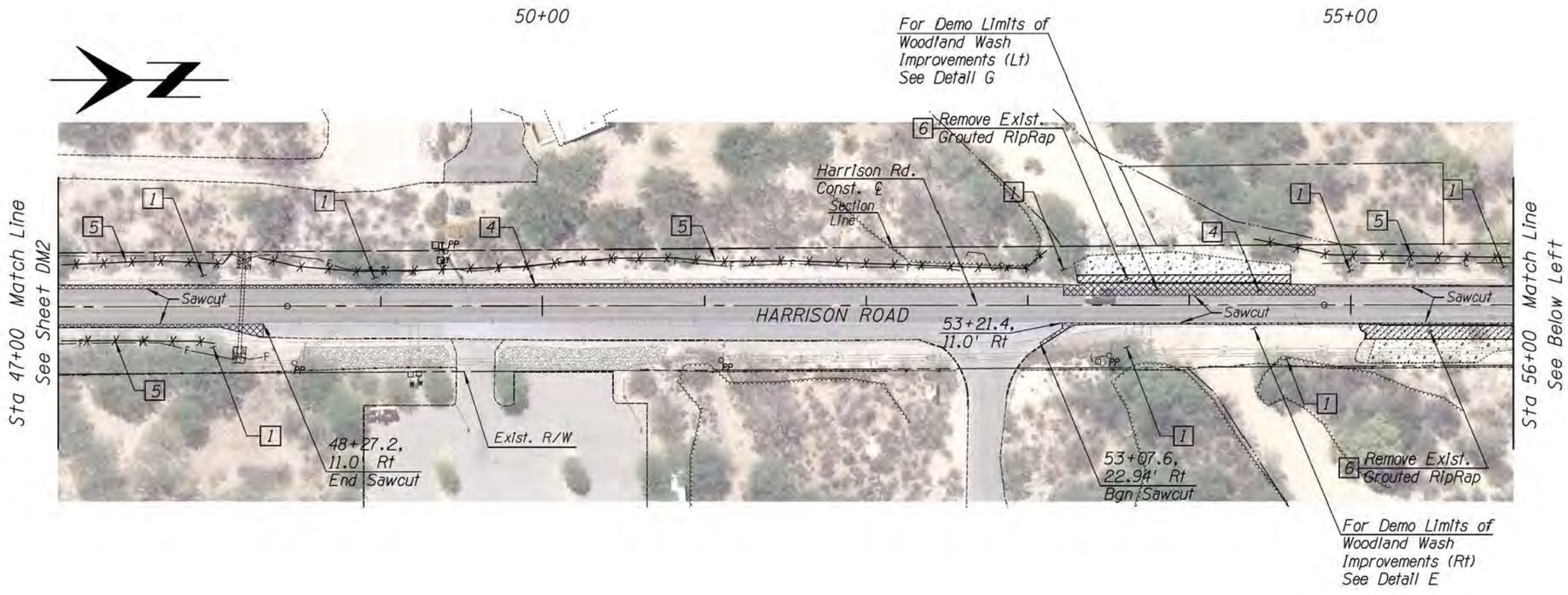
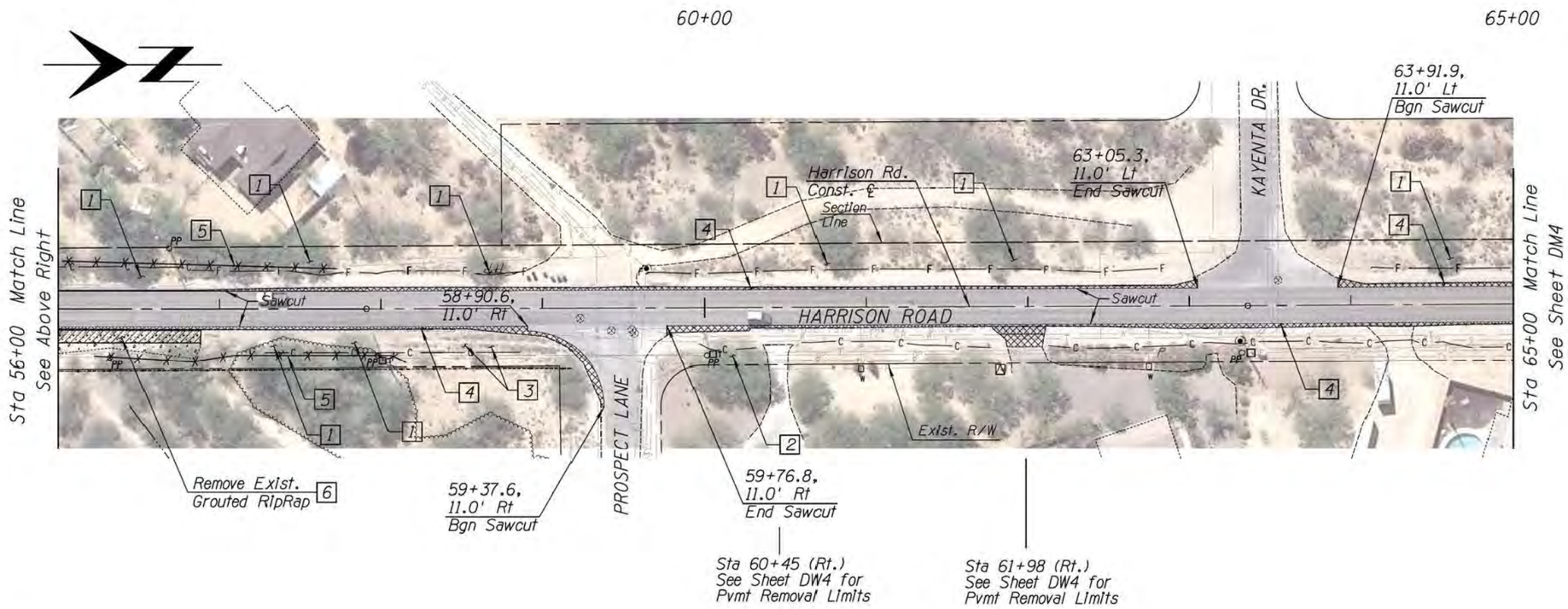
Pima County Department of Transportation

DEMOLITION PLANS
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 40' Vert:





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	14	60	

0000 PM PPM

DEMOLITION NOTES

1. Existing Vegetation with overhanging branches that may conflict with construction. Prune by certified arborist prior to construction. Bid Item 8061700
2. Existing Tree on adjacent property with overhanging branches that may conflict with construction and require pruning. See Special Provisions 201-3.05. No pruning shall be performed without notification of Pima County DOT Community Relations. Bid Item 8061700
3. Remove fountain grass prior to Clearing and Grubbing
4. Removal of Asphaltic Concrete Bid Item 2020029 750 SY
5. Preservation Fencing Bid Item 2010004 1,224 LF
6. Removal of Structures and Obstructions Bid Item 2020001 1 LS

For Demolition General Notes, See Sheet R2

LEGEND

- Preservation Fencing
- Removal of Asphaltic Concrete
- Removal of Structures and Obstructions
- C —— C Cut Limits
- F —— F Fill Limits

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

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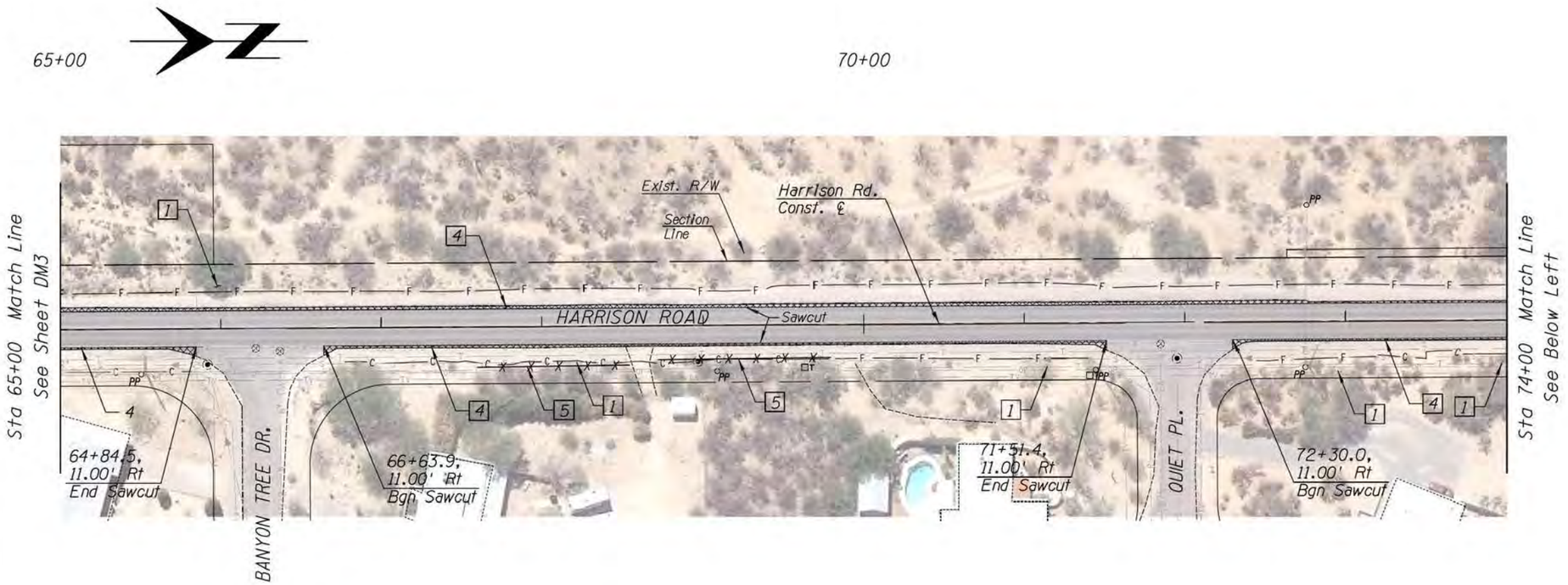
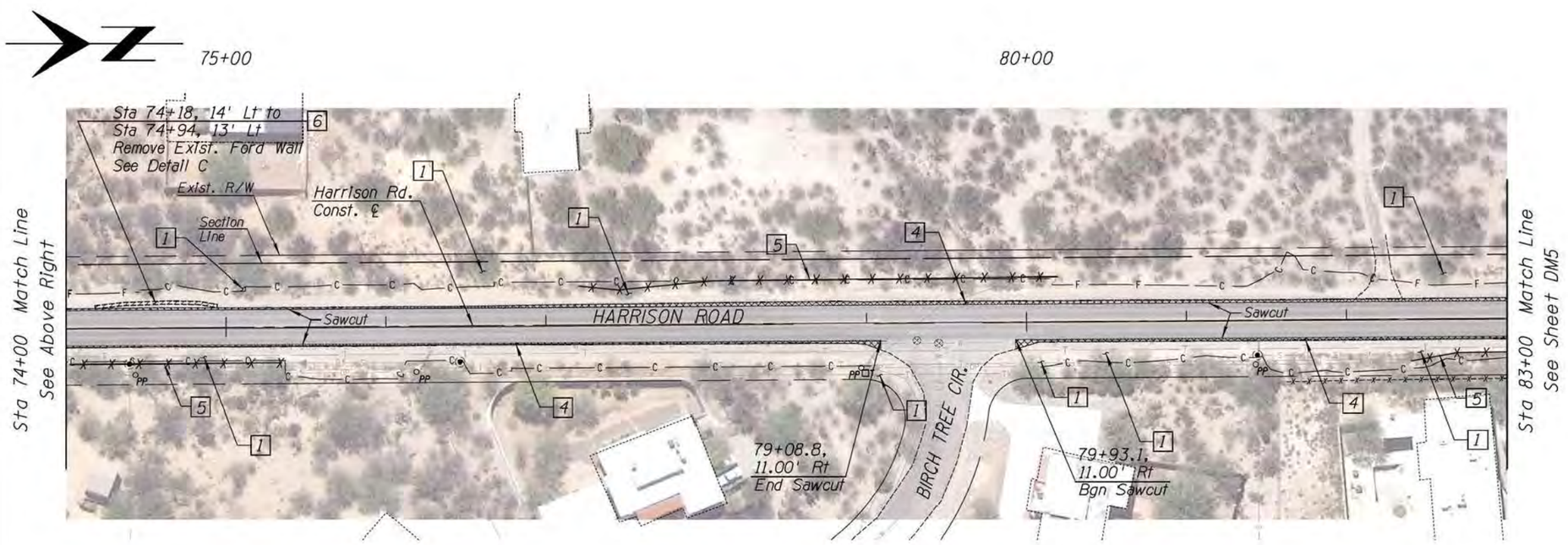
DEMOLITION PLANS

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 40' Vert:





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	15	60	

0000 PM PPM

DEMOLITION NOTES

1. Existing Vegetation with overhanging branches that may conflict with construction. Prune by certified arborist prior to construction. Bid Item 8061700
2. Existing Tree on adjacent property with overhanging branches that may conflict with construction and require pruning. See Special Provisions 201-3.05. No pruning shall be performed without notification of Pima County DOT Community Relations. Bid Item 8061700
4. Removal of Asphaltic Concrete Bid Item 2020029 635 SY
5. Preservation Fencing Bid Item 2010004 709 LF
6. Removal of Structures and Obstructions Bid Item 2020001 1 LS

For Demolition General Notes, See Sheet R2

LEGEND

- Preservation Fencing
- Removal of Asphaltic Concrete
- C —— C Cut Limits
- F —— F Fill Limits
- Removal of Structures and Obstructions

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

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DEMOLITION PLANS
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 40' Vert:

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	16	60	

0000 PM PPM

DEMOLITION NOTES

1. Existing Vegetation with overhanging branches that may conflict with construction. Prune by certified arborist prior to construction. Bid Item 8061700
2. Existing Tree on adjacent property with overhanging branches that may conflict with construction and require pruning. See Special Provisions 201-3.05. No pruning shall be performed without notification of Pima County DOT Community Relations. Bid Item 8061700
4. Removal of Asphaltic Concrete Bid Item 2020029 393 SY
5. Preservation Fencing Bid Item 2010004 279 LF
6. Removal of Structures and Obstructions Bid Item 2020001 1 LS

Demo Notes:

Pavement Marking Obliteration shall be incidental to Traffic Control, Bid Item 7010005.

Existing yellow pavement markings are lead based. See Section 701LEAD_PAINT, 10/28/10 of the project Special Provisions.

For Demolition General Notes, See Sheet R2

LEGEND

- Preservation Fencing
- Removal of Asphaltic Concrete
- Limits of Pavement Marking Obliteration
- C —— C Cut Limits
- F —— F Fill Limits
- Removal of Structures and Obstructions

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 24006 DOUGLAS MICHAEL MOSEKE ARIZONA U.S.A. Expires 09/30/2014

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Pima County Department of Transportation

DEMOLITION PLANS

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 40' Vert:

5/14/2014 H:\528317\VOL1\18117\8826 - HARRISON ROAD\DESIGN\DGN\826_DEMO05.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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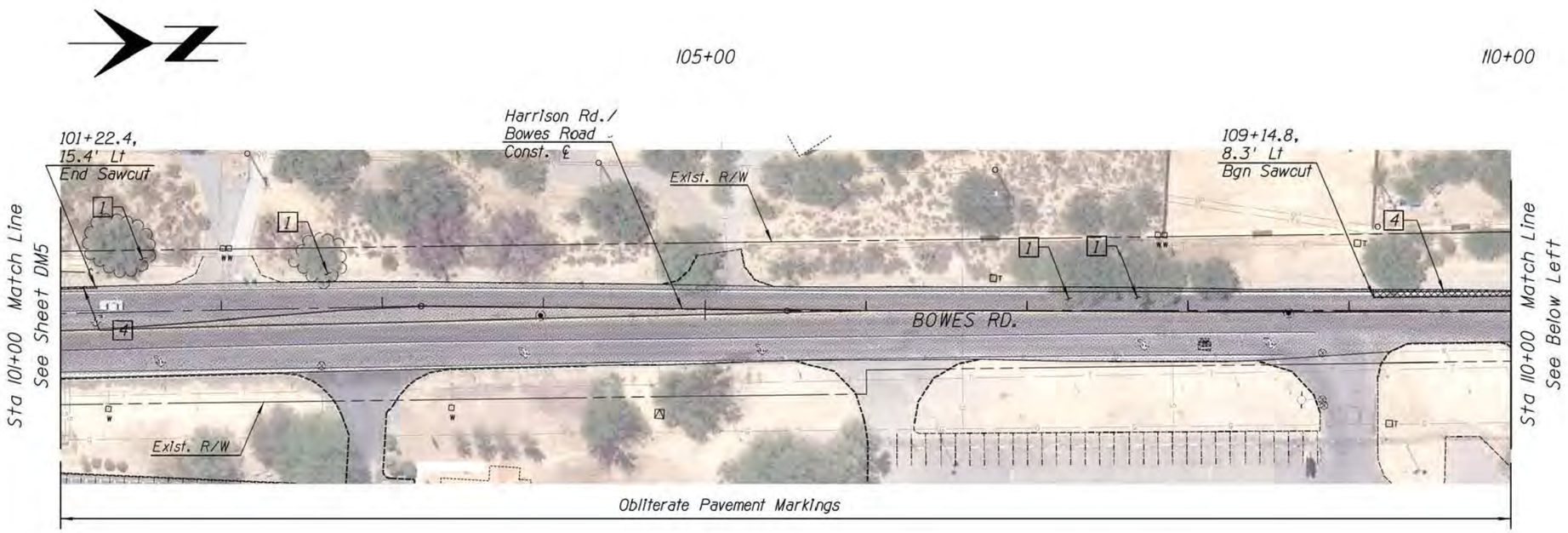
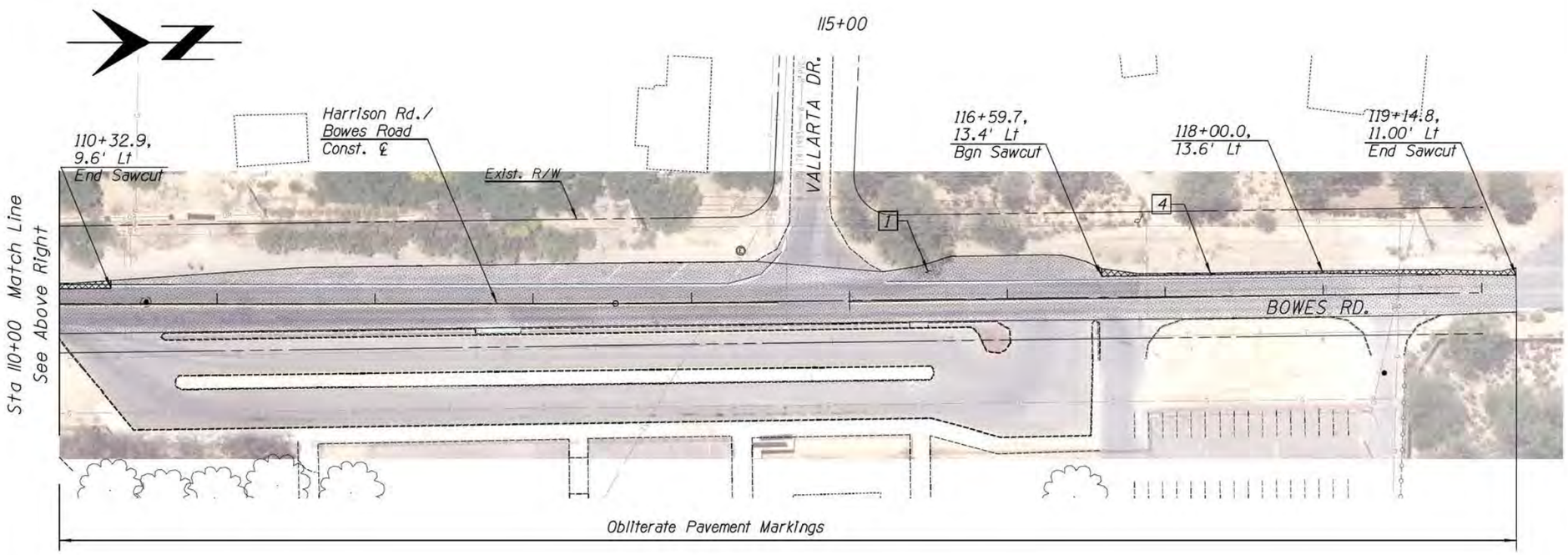
0000 PM PPM





DEMOLITION NOTES

1 Existing Vegetation with overhanging branches that may conflict with construction. Prune by certified arborist prior to construction.
Bid Item 8061700

4 Removal of Asphaltic Concrete
Bid Item 2020029
125 SY

Demo Notes:

Pavement Marking Obliteration shall be incidental to Traffic Control, Bid Item 7010005.

Existing yellow pavement markings are lead based. See Section 701LEAD_PAINT, 10/28/10 of the project Special Provisions.

For Demolition General Notes, See Sheet R2

LEGEND

- Preservation Fencing
- Removal of Asphaltic Concrete
- Limits of Pavement Marking Obliteration
- C —— C Cut Limits
- F —— F Fill Limits

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

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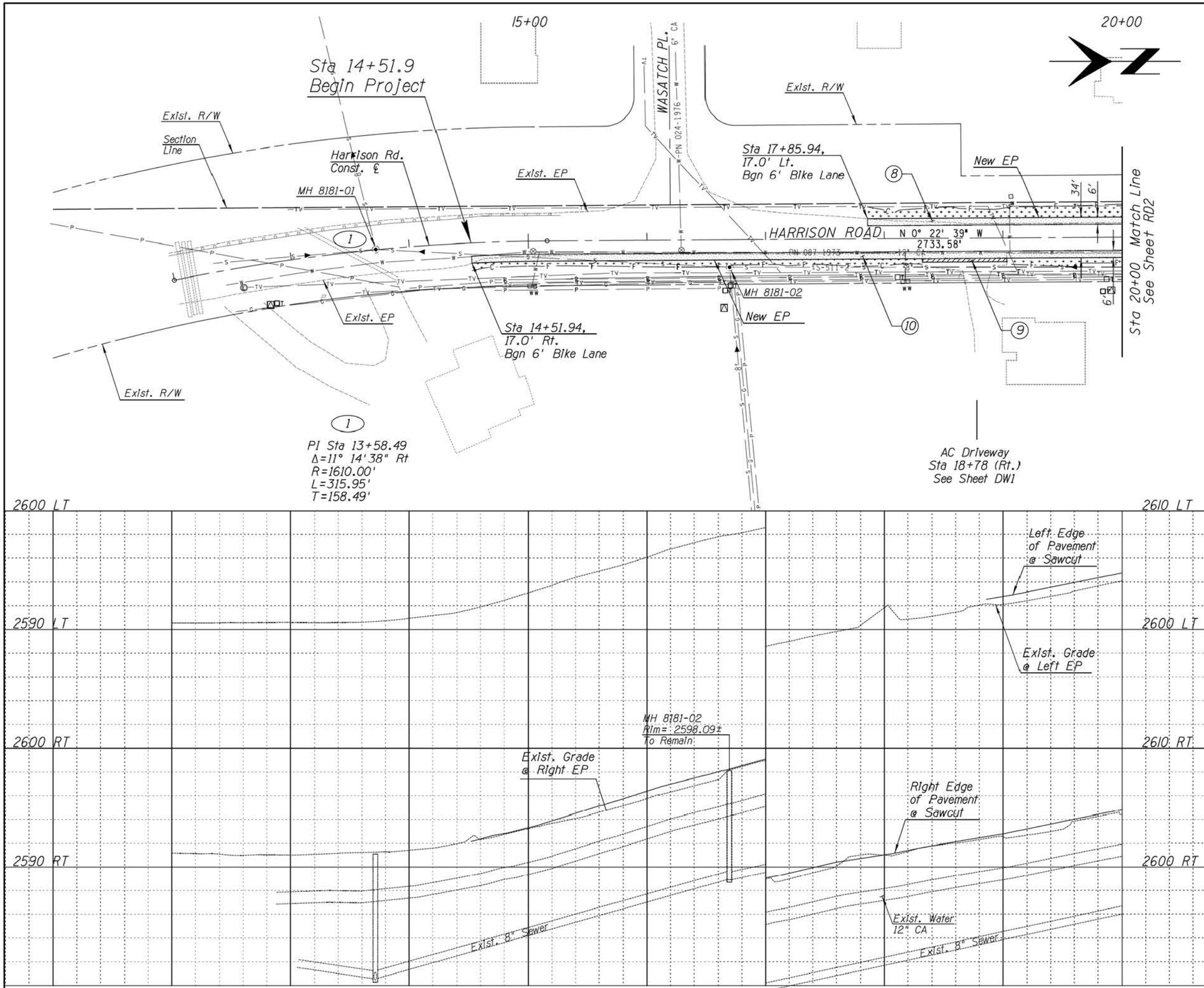
DEMOLITION PLANS
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 40' Vert:

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	18	60	

0000 PM PPM



CONSTRUCTION NOTES

(8) Pavement Structural
Section No. 1
3" AC (PAG #3) — 24 TON
Bid Item 4060002

6" ABC — 24 CY
Bid Item 3030003

(9) Pavement Structural
Section No. 2
2" AC (PAG #3) — 4 TON
Bid Item 4060002

(10) Pavement Structural
Section No. 3
3" AC (PAG #3) — 61 TON
Bid Item 4060002

0 20 40 60 80

SCALES: Horiz: 1" = 40' Vert: 1"= 4'

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

	Designed	Drawn	Checked	Proj. Engr.
	J DANA	J DANA	D MOSEKE	D MOSEKE
Date	04/2014	04/2014	04/2014	

No.	Revision Description	Engineer	Date

ROADWAY PLAN AND PROFILE
STA 12+00 TO STA 20+00
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

Stantec
5151 East Broadway Blvd. Suite 400
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REGISTERED PROFESSIONAL ENGINEER (CIVIL) 34006 DOUGLAS MICHAEL MOSEKE ARIZONA U.S.A.
Expires 09/30/2014

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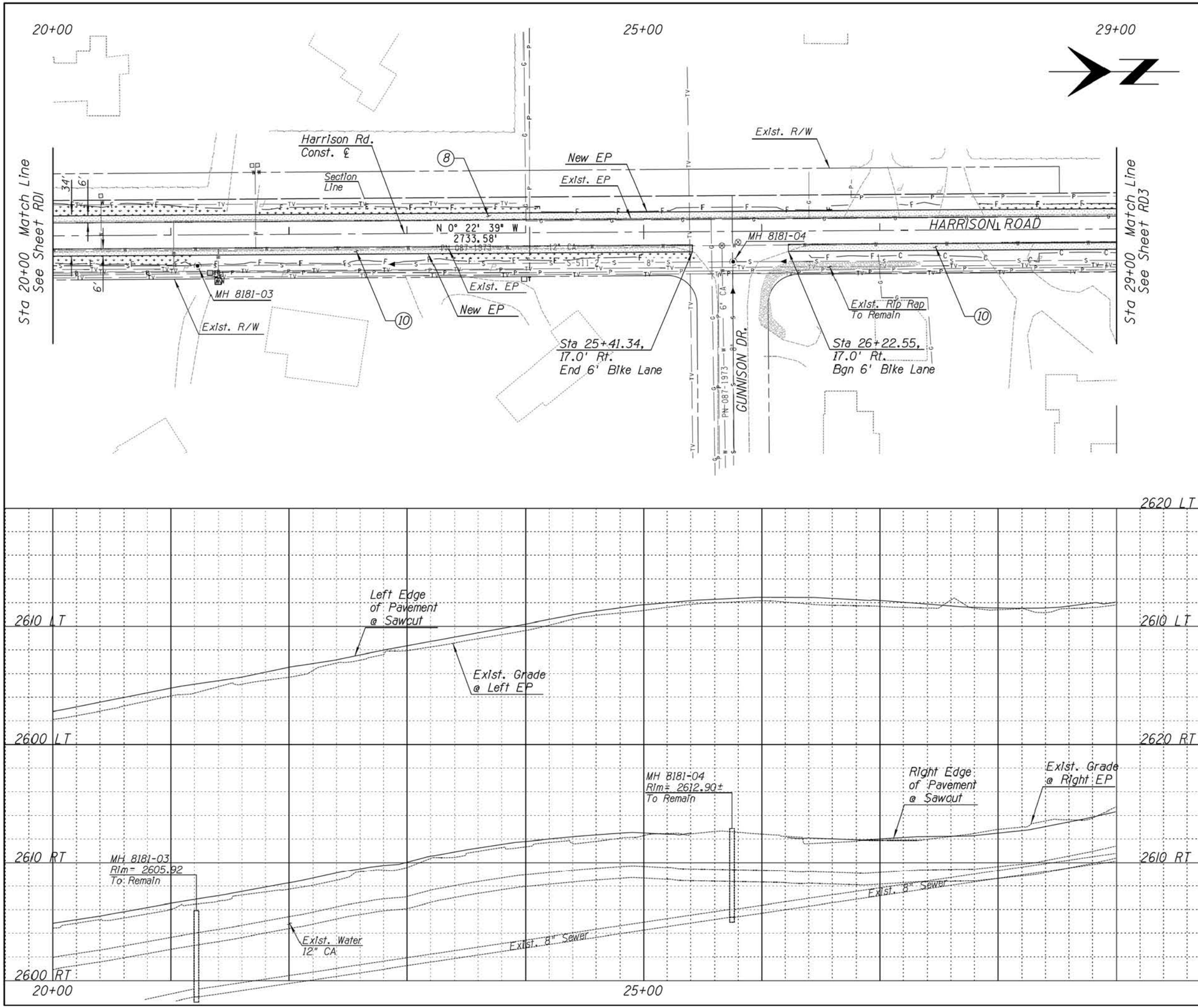

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	19	60	

0000 PM PPM

CONSTRUCTION NOTES

(8) Pavement Structural
Section No. 1
3" AC (PAG #3) — 100 TON
Bid Item 4060002

6" ABC — 100 CY
Bid Item 3030003

(10) Pavement Structural
Section No. 3
3" AC (PAG #3) — 92 TON
Bid Item 4060002

0 20 40 60 80

SCALES: Horiz: 1" = 40' Vert: 1"= 4'

Sheet RD2 of RD12

Page 19 of 60

Pima County Department of Transportation

ROADWAY PLAN AND PROFILE
STA 20+00 TO STA 29+00
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

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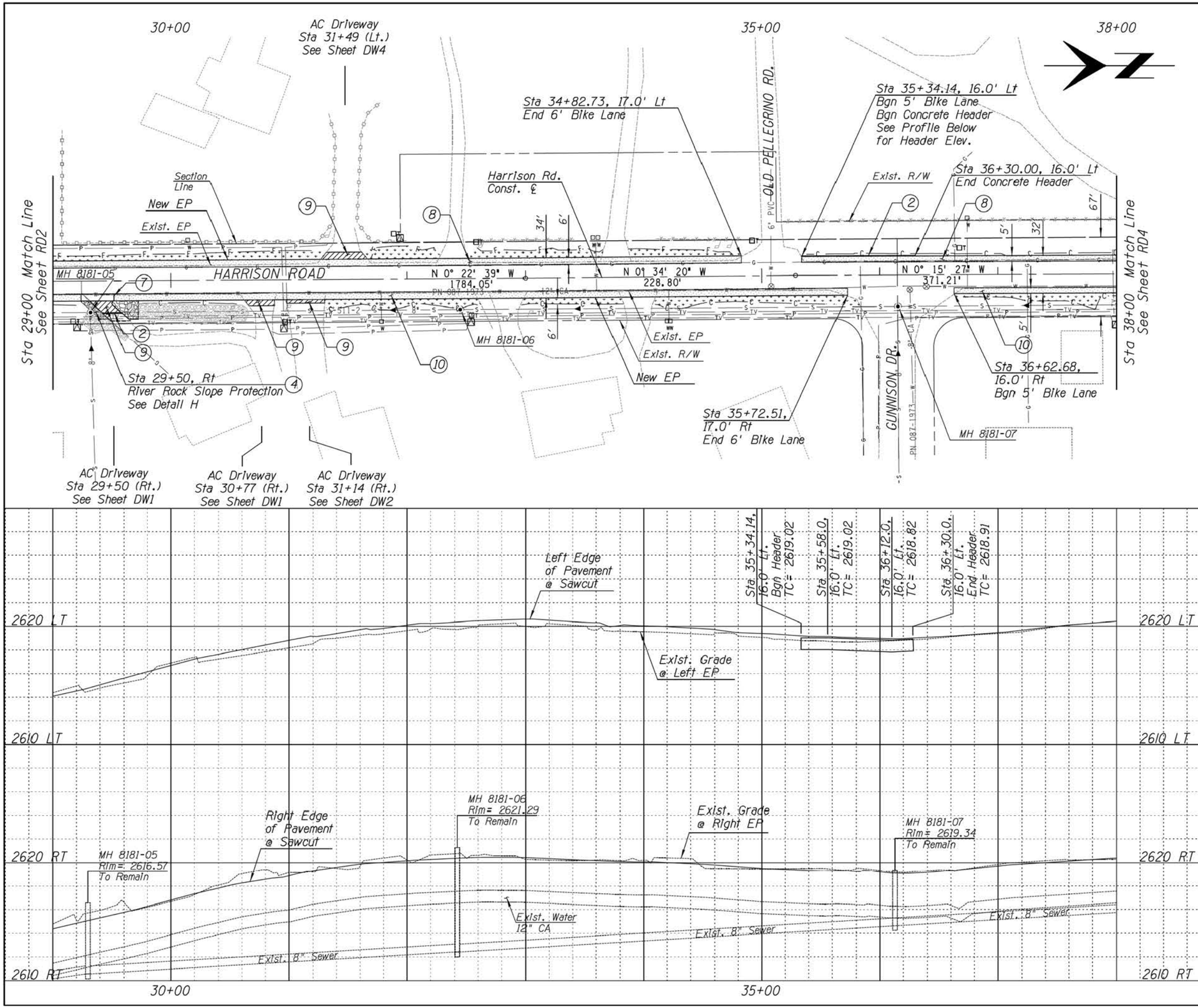
Priscilla S. Cornelio, P.E., Director

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) DOUGLAS MICHAEL MOSEKE 34006 ARIZONA U.S.A. Date Signed 09/30/2014 Expires 09/30/2017

7/28/2014 V:\32817170\CIVIL\TEC\181718026 - HARRISON ROAD\DESIGN\DGN\026-PP02.DGN



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	20	60	

0000 PM PPM

CONSTRUCTION NOTES

(2)	New Concrete Header PC/COT Std. Dtl. 213 Bid Item 9080402	110 LF
(4)	Rip Rap (Hand Placed) Bid Item 9130008	5 CY
(7)	New Concrete Valley Gutter PC/COT Std. Dtl. 208 (Mod. 6' Wide) (See Detail J) Bid Item 9080131	163 SF
(8)	Pavement Structural Section No. 1 3" AC (PAG #3) Bid Item 4060002	90 TON
	6" ABC Bid Item 3030003	90 CY
(9)	Pavement Structural Section No. 2 2" AC (PAG #3) Bid Item 4060002	7 TON
(10)	Pavement Structural Section No. 3 3" AC (PAG #3) Bid Item 4060002	86 TON

0 20 40 60 80

SCALES: Horiz: 1" = 40' Vert: 1"= 4'

Sheet RD3 of RD12

Page 20 of 60

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) DOUGLAS MICHAEL MOSEKE No. 34006 Date Signed 09/30/2014 ARIZONA U.S.A. Expires 09/30/2017

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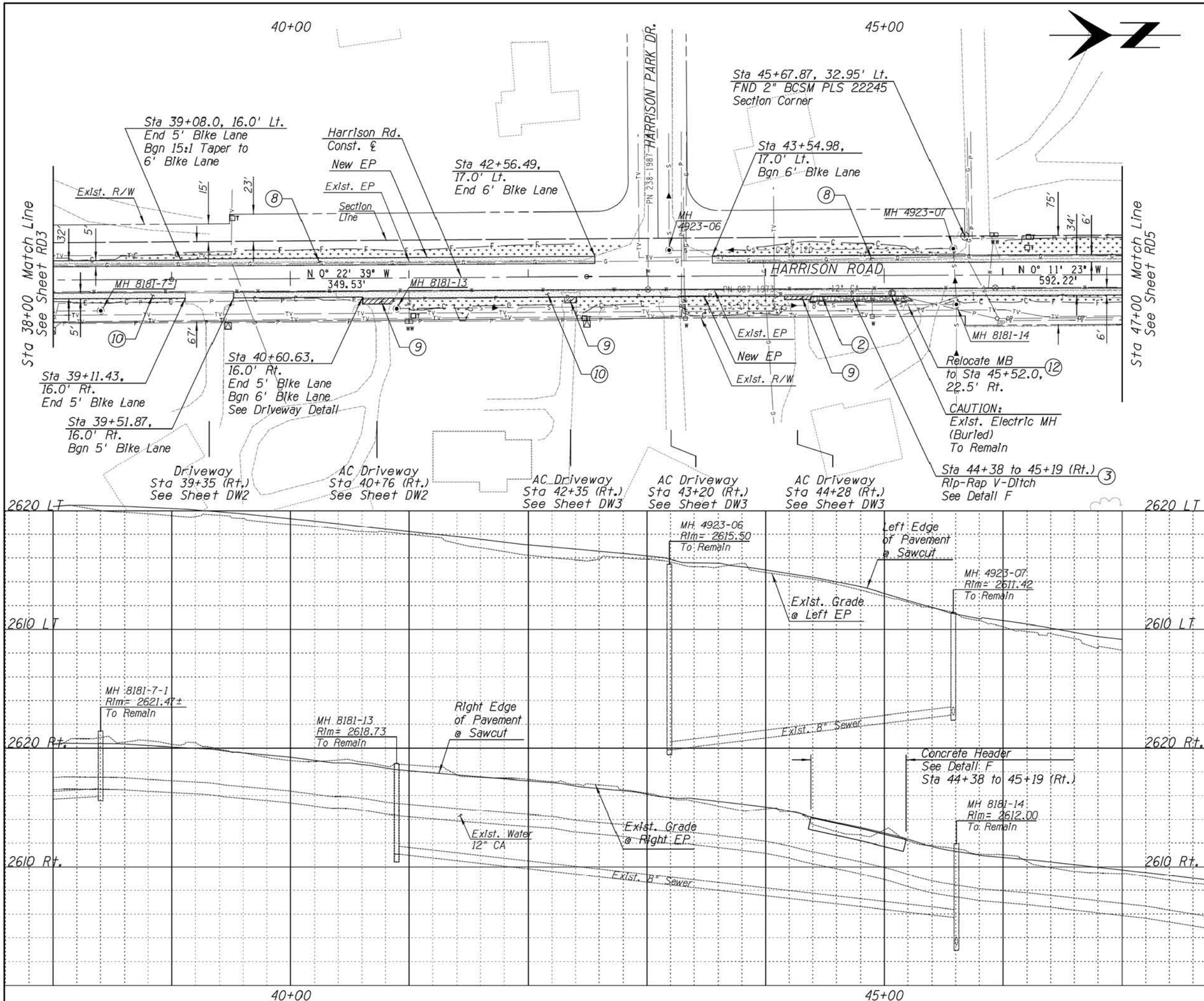
ROADWAY PLAN AND PROFILE
STA 29+00 TO STA 38+00

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	21	60	

0000 PM PPM



CONSTRUCTION NOTES

(2)	New Concrete Header PC/COT Std. Dtl. 213 Bid Item 9080402	81 LF
(3)	Rip Rap (Hand Placed) (Grouted) Bid Item 9130009	38 SY
(8)	Pavement Structural Section No. 1 3" AC (PAG #3) Bid Item 4060002	88 TON
	6" ABC Bid Item 3030003	88 CY
(9)	Pavement Structural Section No. 2 2" AC (PAG #3) Bid Item 4060002	3 TON
(10)	Pavement Structural Section No. 3 3" AC (PAG #3) Bid Item 4060002	93 TON
(12)	Relocate Mailbox Bid Item 2020061	1 EA

0 20 40 60 80

SCALES: Horiz: 1" = 40' Vert: 1"= 4'

Sheet RD4 of RD12

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

Stantec
5151 East Broadway Blvd. Suite 400
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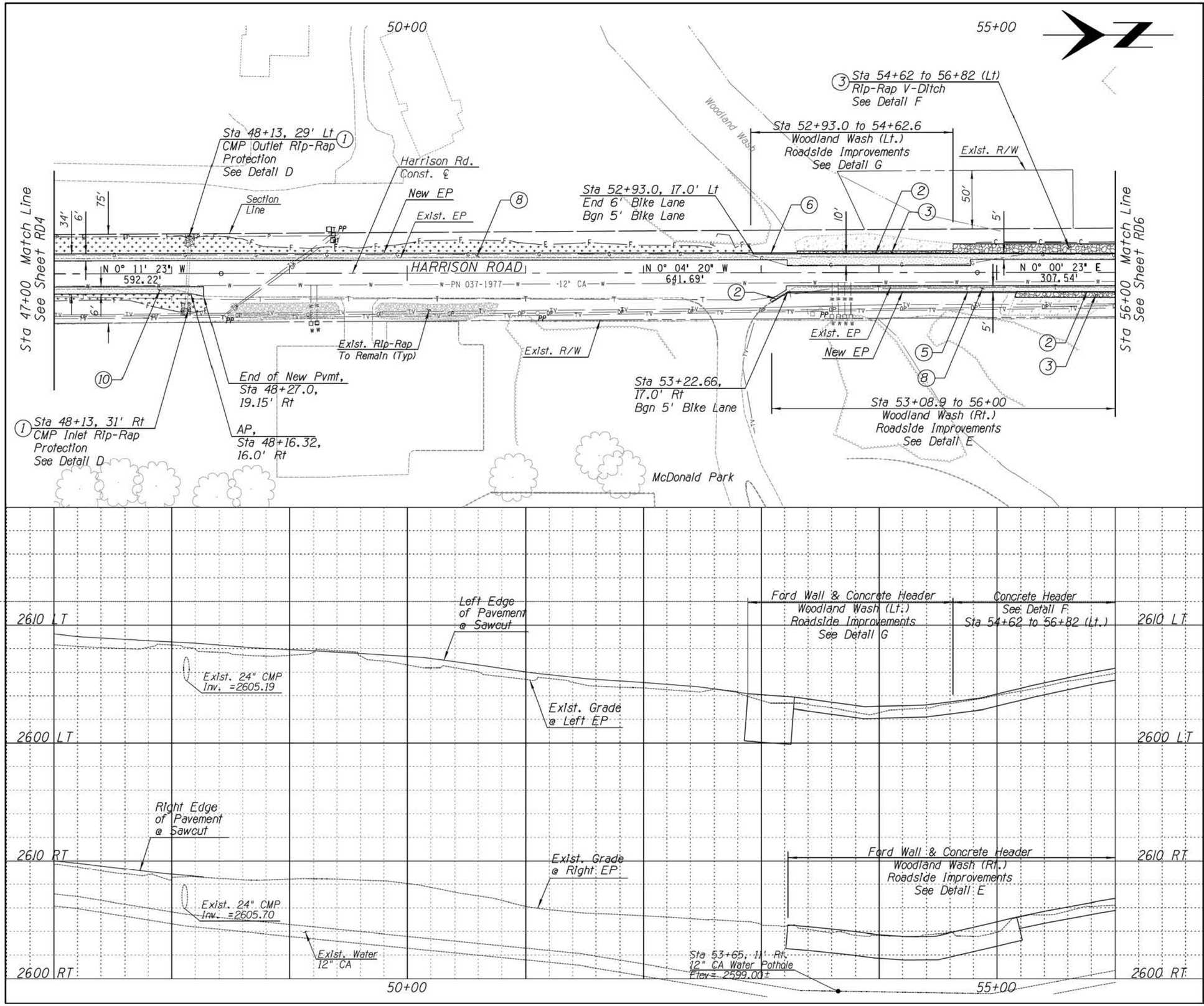
ROADWAY PLAN AND PROFILE
STA 38+00 TO STA 47+00
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

Expires 09/30/2017



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	22	60	

0000 PM PPM

CONSTRUCTION NOTES

(1)	Rip-Rap (Dumped) Bid Item 9130001	3 CY
(2)	New Concrete Header PC/COT Std. Dtl. 213 Bid Item 9080402	369 LF
(3)	Rip Rap (Hand Placed) (Grouted) Bid Item 9130009	194 SY
(5)	New Concrete Ford Wall (1' x 2') ADOT Std. Dtl. C-19.10 Bid Item 9080502	194 LF
(6)	New Concrete Ford Wall (1' x 4') ADOT Std. Dtl. C-19.10 Bid Item 9080504	40 LF
(8)	Pavement Structural Section No. 1 3" AC (PAG #3) Bid Item 4060002	136 TON
	6" ABC Bid Item 3030003	136 CY
(10)	Pavement Structural Section No. 3 3" AC (PAG #3) Bid Item 4060002	15 TON

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 34006 DOUGLAS MICHAEL MOSEKE ARIZONA U.S.A. Expires 09/30/2014

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5151 East Broadway Blvd. Suite 400
Tucson, AZ 85711
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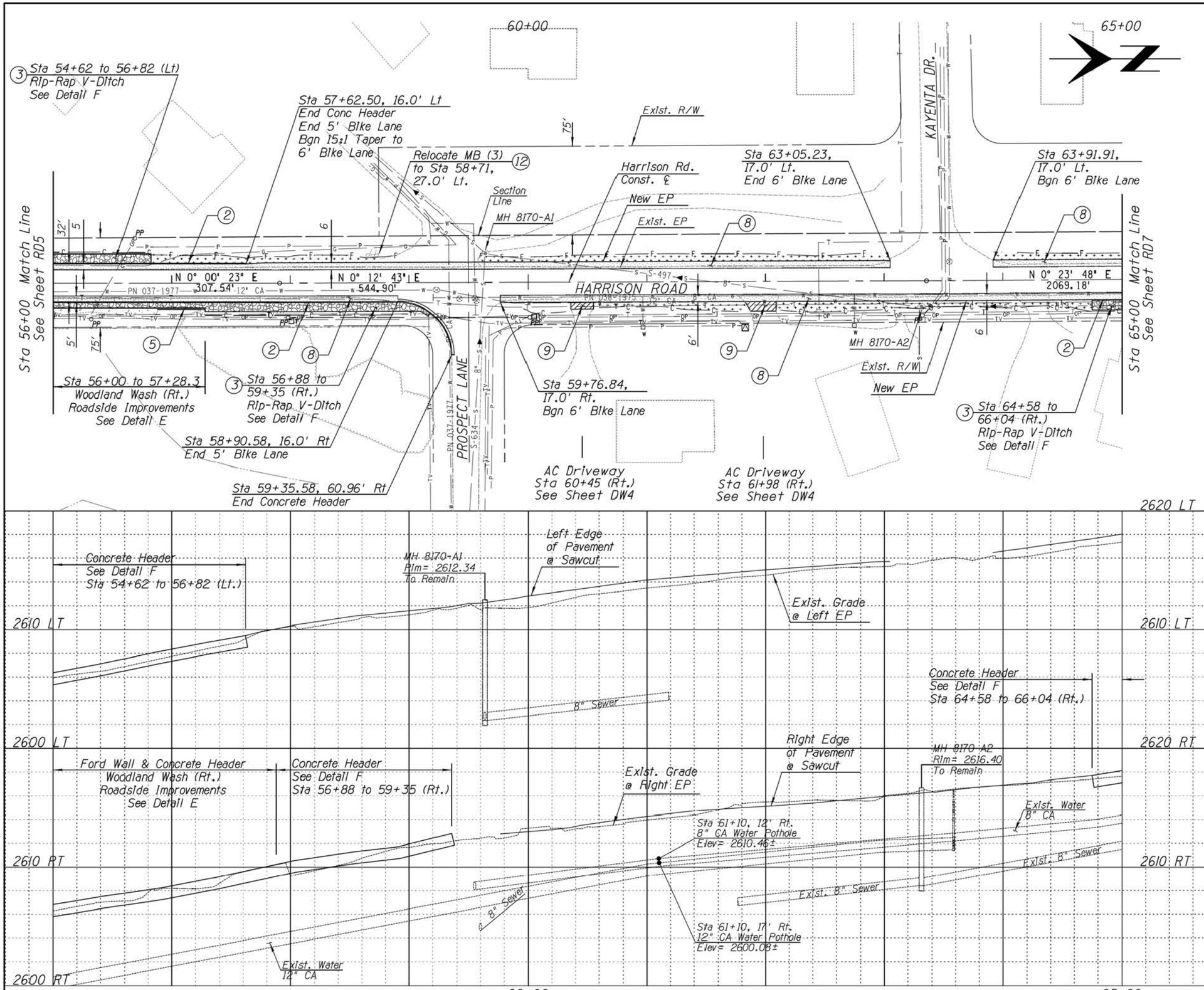
Pima County Department of Transportation

ROADWAY PLAN AND PROFILE
STA 47+00 TO STA 56+00
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 40' Vert: 1"= 4'

5/14/2014 V:\1281171\AC\TYE\181178026 - HARRISON ROAD\DESIGN\DGN\026_PP05.DGN



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	23	60	
		0000 PM PPM			

CONSTRUCTION NOTES

(2)	New Concrete Header PC/COT Std. Dtl. 213 Bid Item 9080402	548 LF
(3)	Rip Rap (Hand Placed) (Grouted) Bid Item 9130009	310 SY
(5)	New Concrete Ford Wall (1' x 2') ADOT Std. Dtl. C-19.10 Bid Item 9080502	40 LF
(8)	Pavement Structural Section No. 1 3" AC (PAG #3) Bid Item 4060002	186 TON
	6" ABC Bid Item 3030003	186 CY
(9)	Pavement Structural Section No. 2 2" AC (PAG #3) Bid Item 4060002	4 TON
(12)	Relocate Mailbox Bid Item 2020061	3 EA

0 20 40 60 80

SCALES: Horiz: 1" = 40' Vert: 1"= 4'

Sheet RD6 of RD12

Page 23 of 60

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

Expir.eg. 09/30/2014

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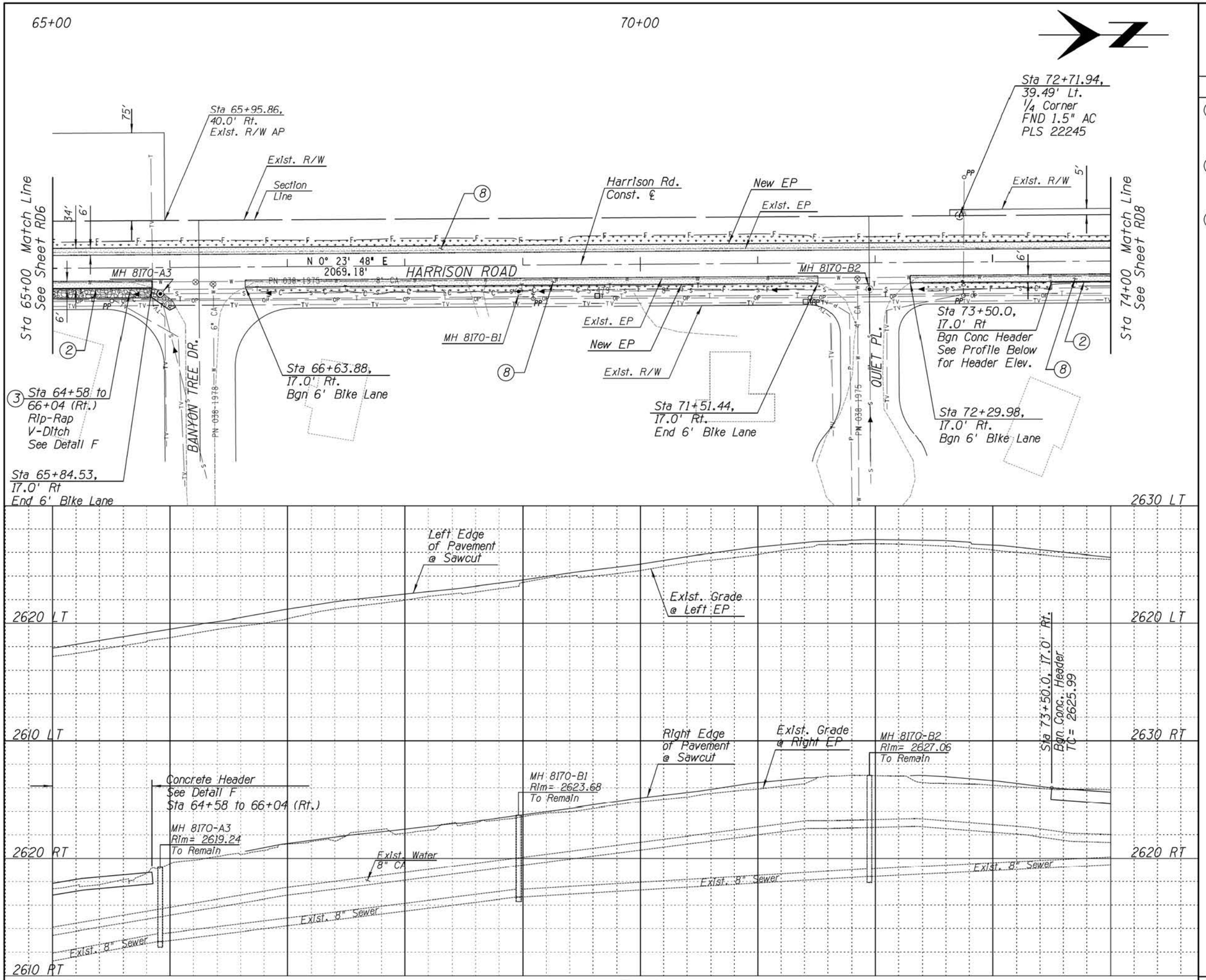
Pima County Department of Transportation

ROADWAY PLAN AND PROFILE
STA 56+00 TO STA 65+00

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

5/14/2014 V:\1281171\ACTIVE\181178026 - HARRISON ROAD\DESIGN\DGN\RD6_PP06.DGN



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	24	60	

0000 PM PPM

CONSTRUCTION NOTES

(2)	New Concrete Header PC/COT Std. Dtl. 213 Bid Item 9080402	135 LF
(3)	Rip Rap (Hand Placed) (Grouted) Bid Item 9130009	93 SY
(8)	Pavement Structural Section No. 1 3" AC (PAG #3) Bid Item 4060002	184 TON
	6" ABC Bid Item 3030003	184 CY

0 20 40 60 80

SCALES: Horiz: 1" = 40' Vert: 1"= 4'

Sheet RD7 of RD12 | Page 24 of 60

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 34006 DOUGLAS MICHAEL MOSEKE ARIZONA U.S.A. Expires 09/30/2014

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ROADWAY PLAN AND PROFILE
STA 65+00 TO STA 74+00

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

5/14/2014 V:\1528117\ACTIVE\181178026 - HARRISON ROAD\DESIGN\DGN\026_PP07.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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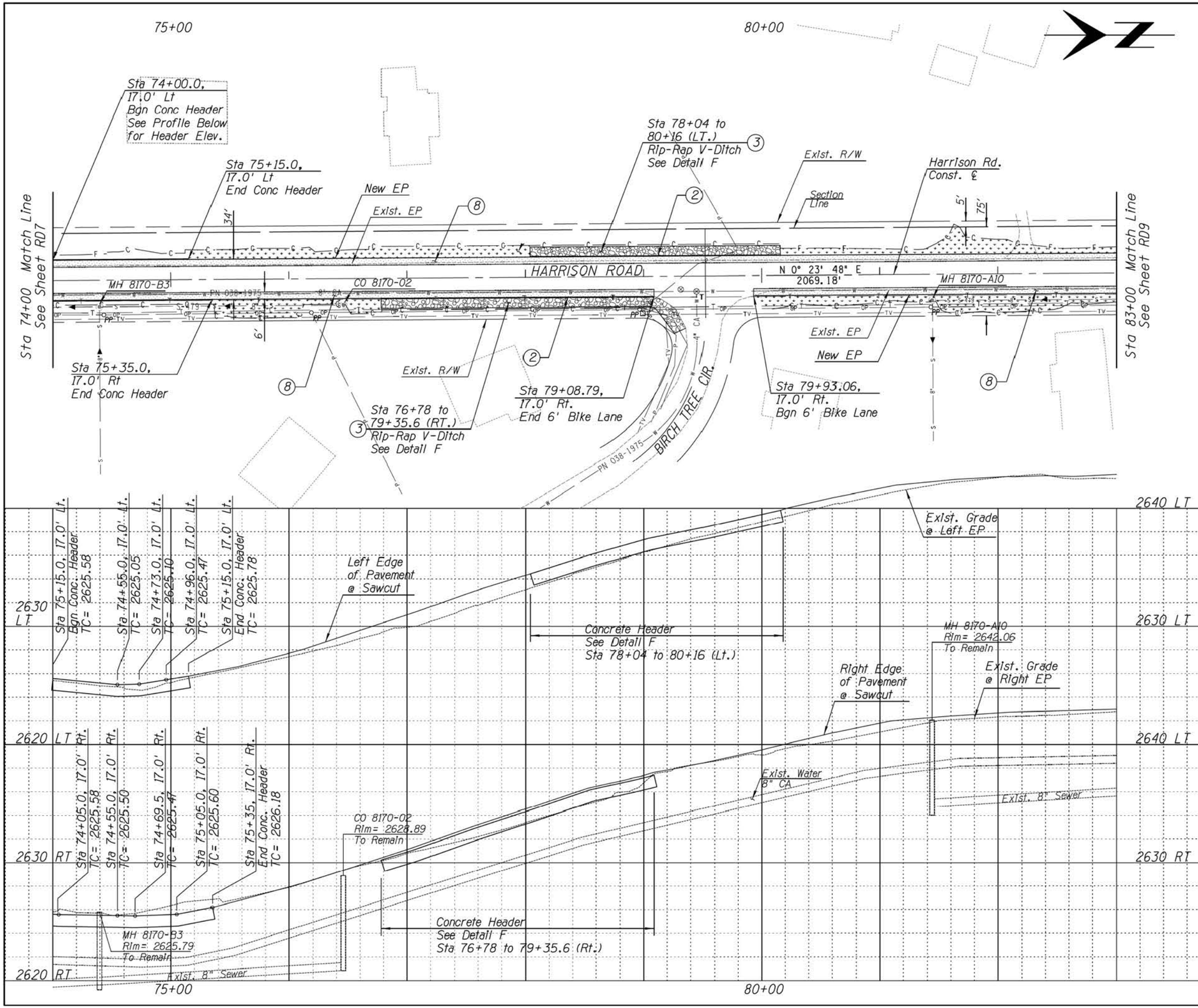
0000 PM PPM



CONSTRUCTION NOTES

(2)	New Concrete Header PC/COT Std. Dtl. 213 Bid Item 9080402	693 LF
(3)	Rip Rap (Hand Placed) (Grouted) Bid Item 9130009	435 SY
(8)	Pavement Structural Section No. 1 3" AC (PAG #3) Bid Item 4060002	192 TON
	6" ABC Bid Item 3030003	192 CY

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

			Date
Designed	J DANA		04/2014
Drawn	J DANA		04/2014
Checked	D MOSEKE		04/2014
Proj. Engr.			

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 34006 DOUGLAS MICHAEL MOSEKE ARIZONA U.S.A. Expires 09/30/2014

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Pima County Department of Transportation

ROADWAY PLAN AND PROFILE
STA 74+00 TO STA 83+00

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 40' Vert: 1"= 4'

5/14/2014 V:\1528317\ACTIVE\181718226 - HARRISON ROAD\DESIGN\DGN\RD8_PP08.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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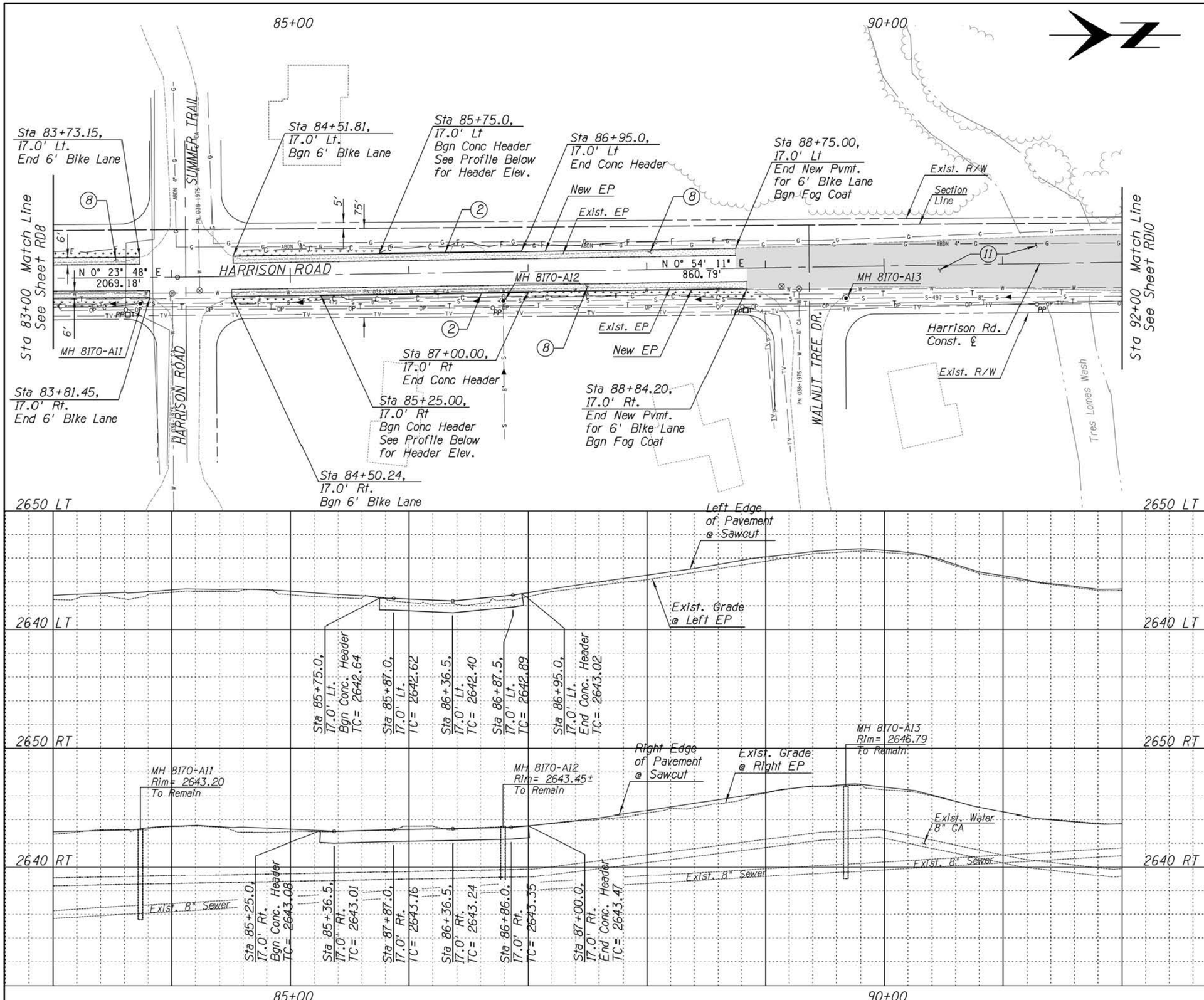
0000 PM PPM



CONSTRUCTION NOTES

(2) New Concrete Header — 295 LF
PC/COT Std. Dtl. 213
Bid Item 9080402

(8) Pavement Structural
Section No. 1
3" AC (PAG #3) — 49 TON
Bid Item 4060002

6" ABC — 49 CY
Bid Item 3030003

(11) Pavement Structural
Section No. 4
Fog Coat — 0.4 TON
Bid Item 4040125

0 20 40 60 80

SCALES: Horiz: 1" = 40' Vert: 1"= 4'

Sheet RD9 of RD12

Page 26 of 60

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

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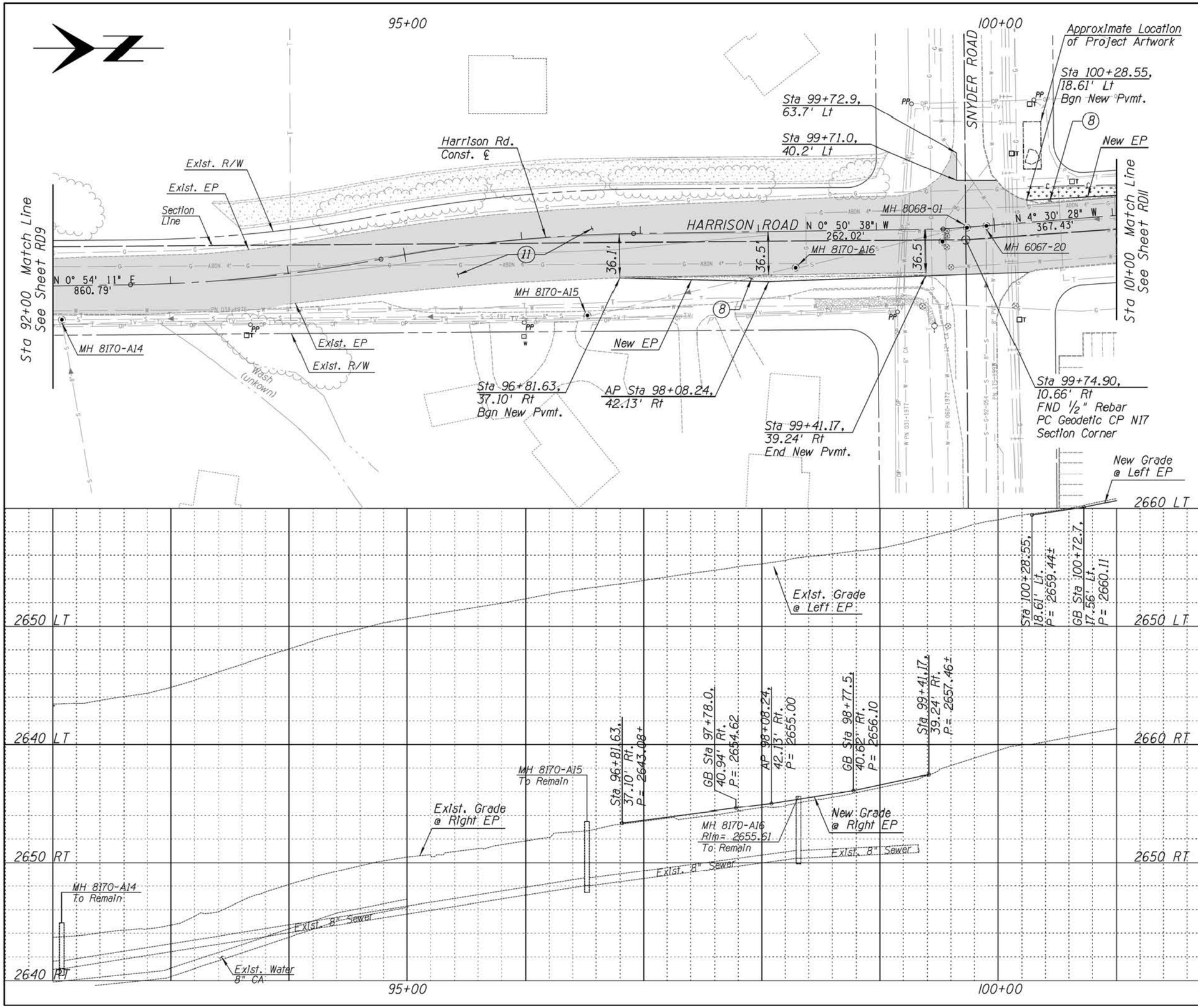
ROADWAY PLAN AND PROFILE
STA 83+00 TO STA 92+00
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No. 0000 PM PPM SL699 OIC



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	27	60	
		0000 PM PPM			

CONSTRUCTION NOTES

(8) Pavement Structural
Section No. 1
3" AC (PAG #3) — 22 TON
Bid Item 4060002

6" ABC — 22 CY
Bid Item 3030003

(11) Pavement Structural
Section No. 4
Fog Coat — 1.7 TON
Bid Item 4040125

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) DOUGLAS MICHAEL MOSEKE No. 34006 Date Signed 03/20/14 ARIZONA U.S.A. Expires 09/30/2014

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Pima County Department of Transportation

ROADWAY PLAN AND PROFILE
STA 92+00 TO STA 101+00

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

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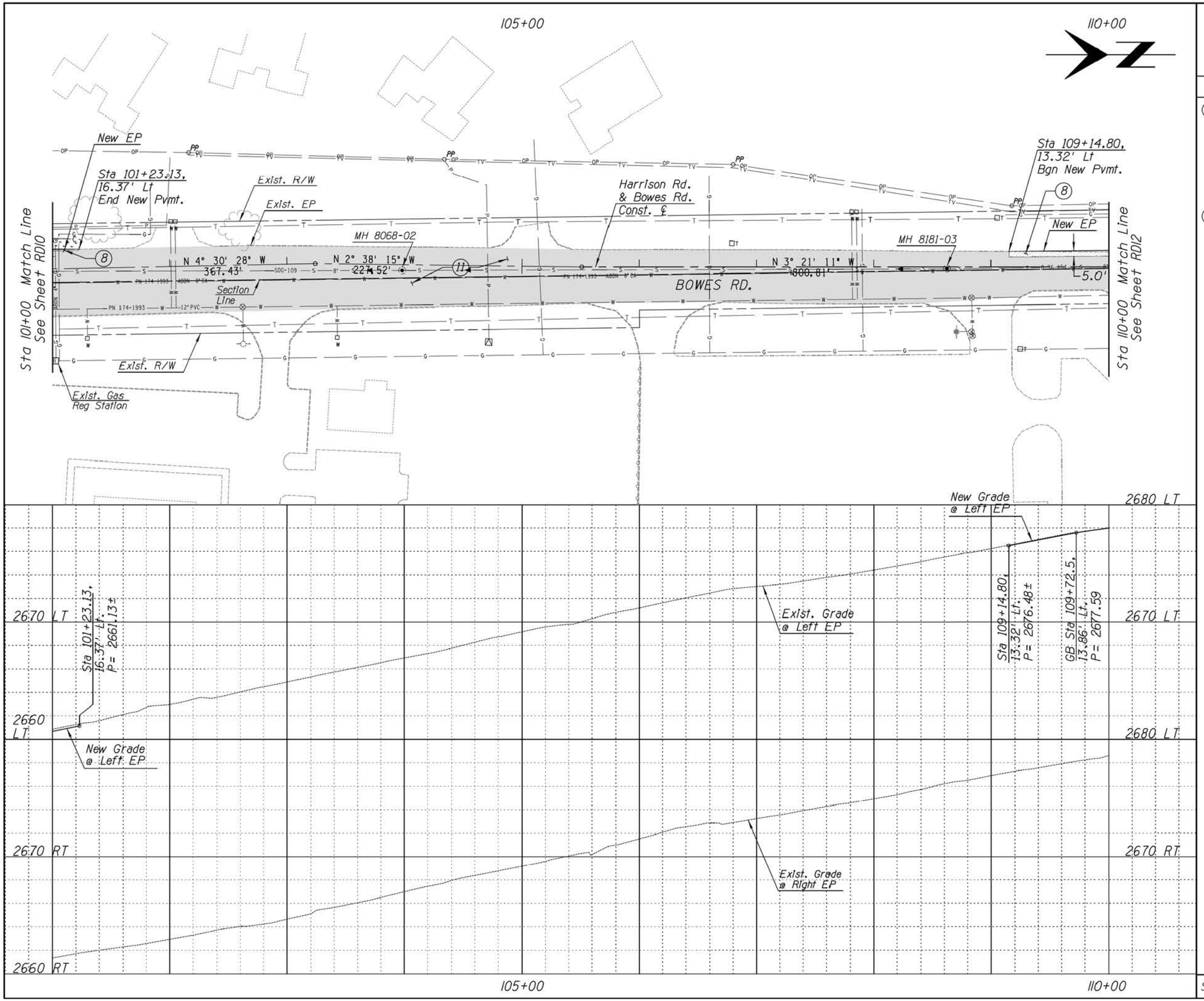
SCALES: Horiz: 1" = 40' Vert: 1"= 4'

Sheet RD10 of RD12



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	28	60	

0000 PM PPM

CONSTRUCTION NOTES

(8) Pavement Structural
Section No. 1
3" AC (PAG #3) — 9 TON
Bid Item 4060002

6" ABC — 9 CY
Bid Item 3030003

(11) Pavement Structural
Section No. 4
Fog Coat — 1.4 TON
Bid Item 4040125

0 20 40 60 80

SCALES: Horiz: 1" = 40' Vert: 1"= 4'

Sheet RD11 of RD12

Pima County Department of Transportation

ROADWAY PLAN AND PROFILE
STA 101+00 TO STA 110+00

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

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Expires 09/30/2014

5/14/2014 V:\1562817\VRC\1\B\178826 - HARRISON ROAD\BESTION\DGN\026_PP11.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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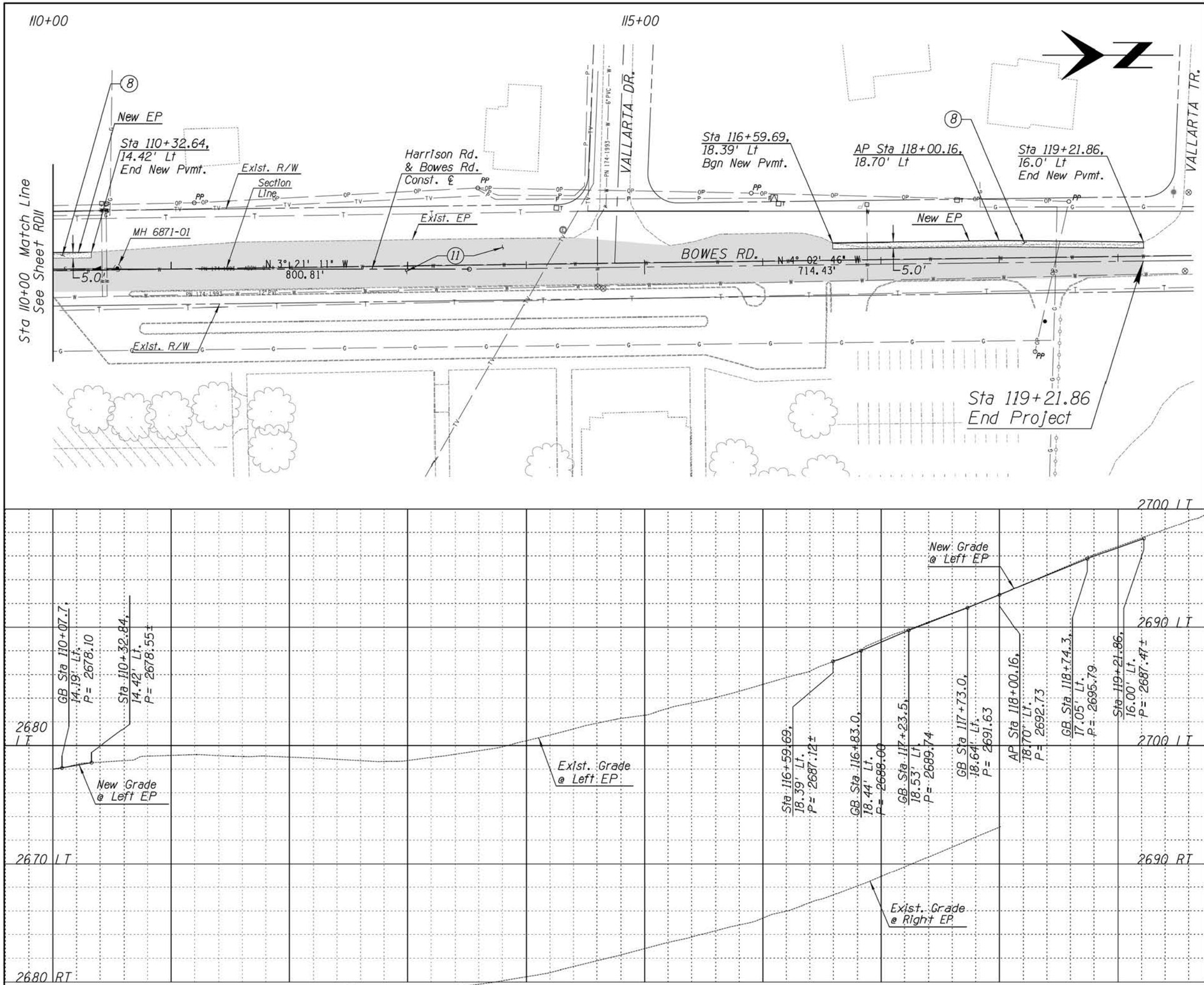
0000 PM PPM



CONSTRUCTION NOTES

(8) Pavement Structural
Section No. 1
3" AC (PAG #3) — 28 TON
Bid Item 4060002

6" ABC — 28 CY
Bid Item 3030003

(11) Pavement Structural
Section No. 4
Fog Coat — 1.0 TON
Bid Item 4040125

0 20 40 60 80

SCALES: Horiz: 1" = 40' Vert: 1"= 4'

Sheet RD12 of RD12

Page 29 of 60

Pima County Department of Transportation

ROADWAY PLAN AND PROFILE
STA 110+00 TO STA 119+00
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

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Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) DOUGLAS MICHAEL MOSEKE 34006 STATE OF ARIZONA
Expires 09/30/2014

5/14/2014 V:\32817171\AC\1187178026 - HARRISON ROAD\DESIGN\DGN\026-PP12-.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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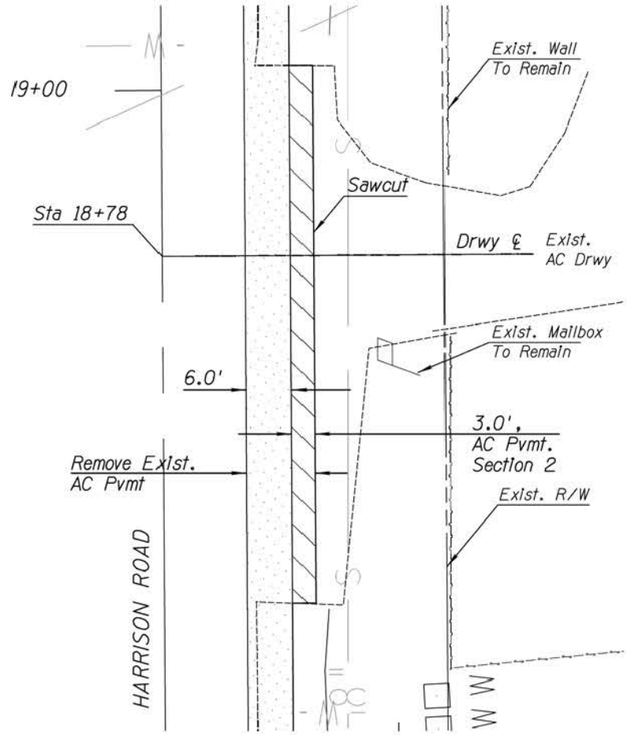
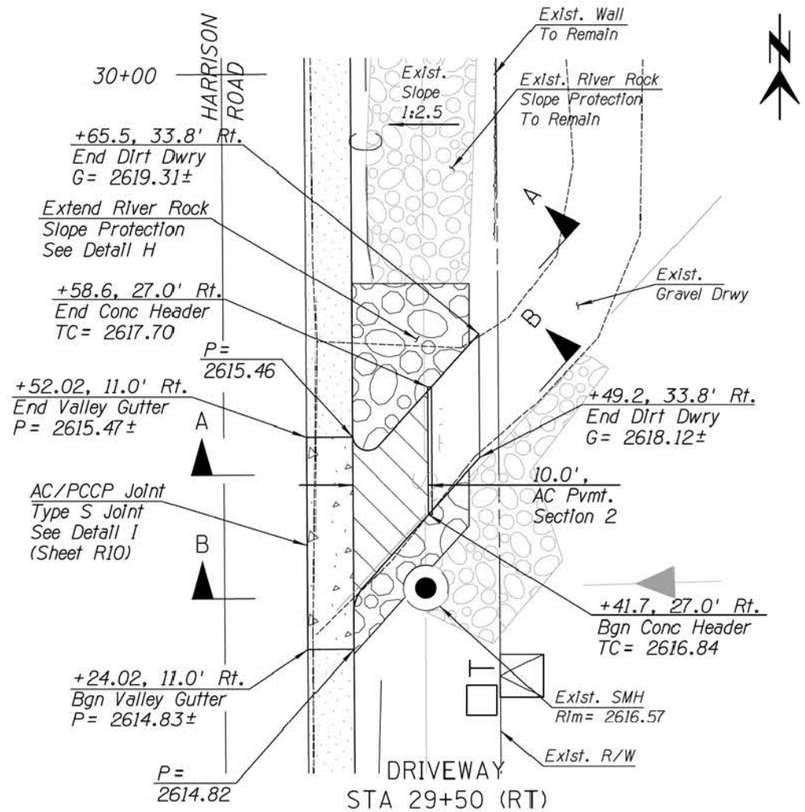
0000 PM PPM



DRIVEWAY
STA 18+78 (RT)



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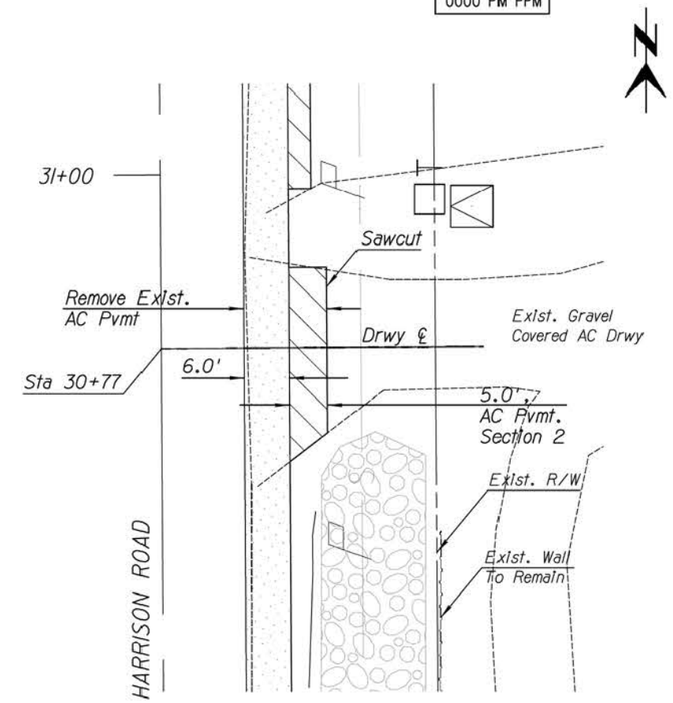
STA 29+50 (RT)



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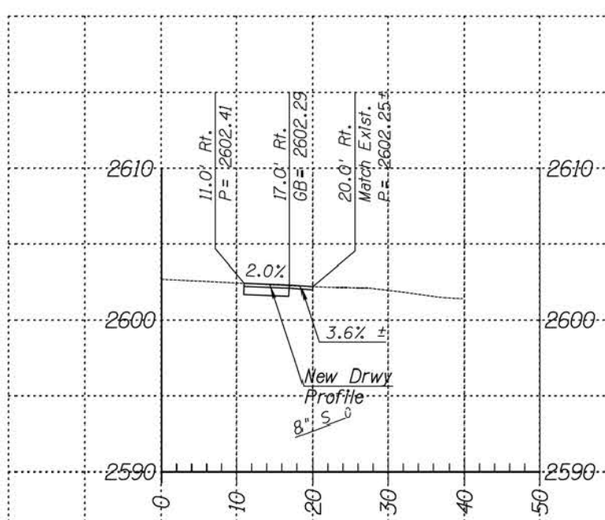
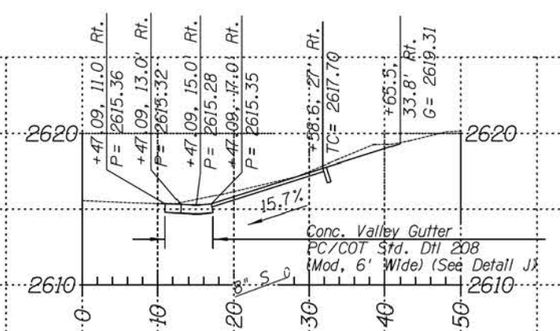
STA 30+77 (RT)



18+78.00



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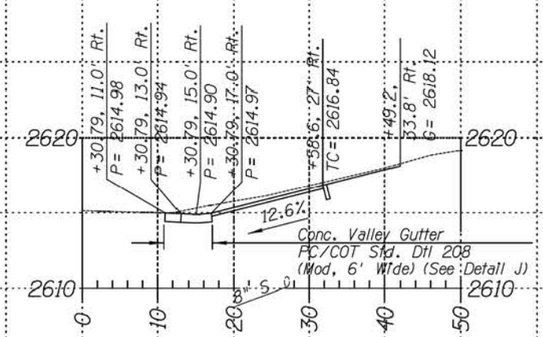

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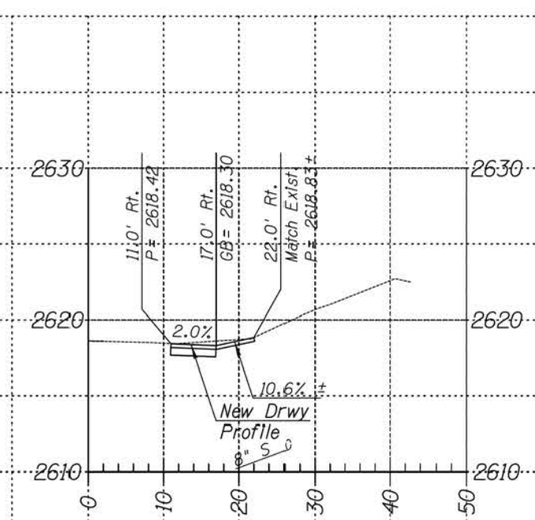

30+77.00

DRIVEWAY DETAILS

SCALES:	Horiz: 1" = 10'	Sheet DW1 of DW4	Page 30 of 60
	Vert: 1" = 5'		

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 34006 DOUGLAS MICHAEL MOSEKE ARIZONA U.S.A. Expires 09/30/2014

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TUCSON, AZ 85711
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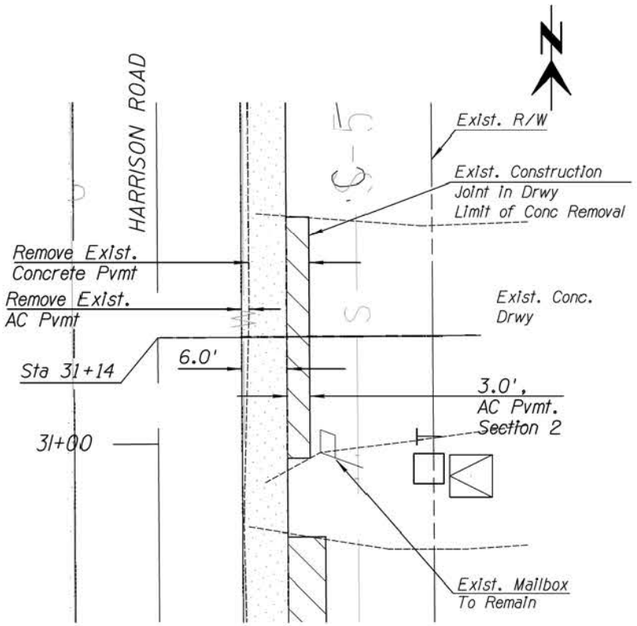
DRIVEWAY DETAILS

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

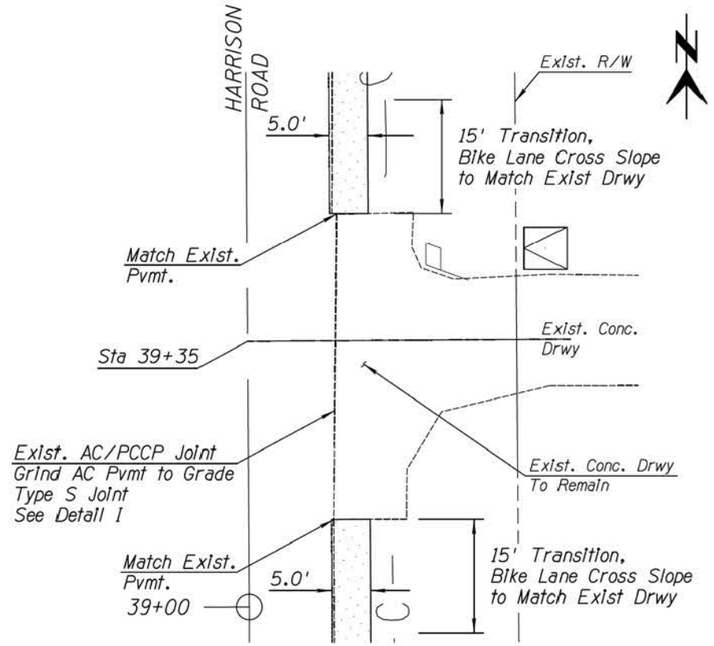
5/14/2014 V:\152817\ACTIVE\181178226 - HARRISON ROAD\DESIGN\DGN\R26_DW1.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	31	60	

0000 PM PPM



DRIVEWAY
STA 31+14 (RT)



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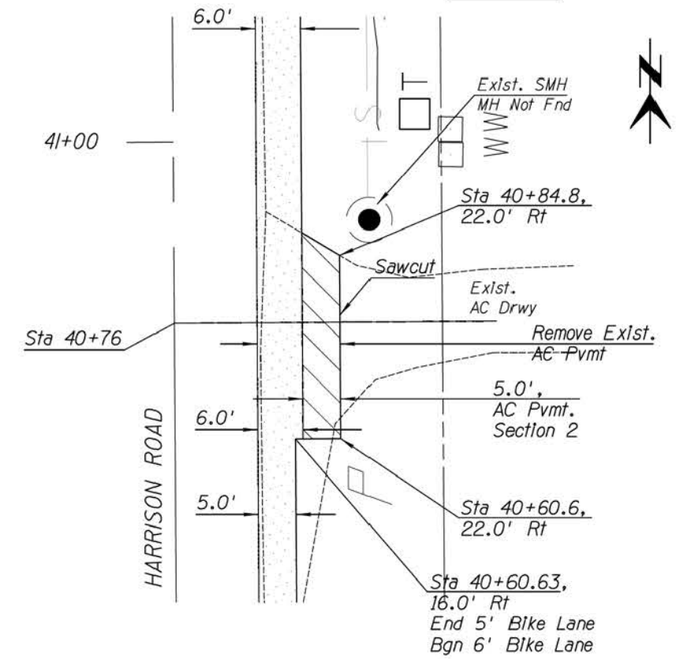

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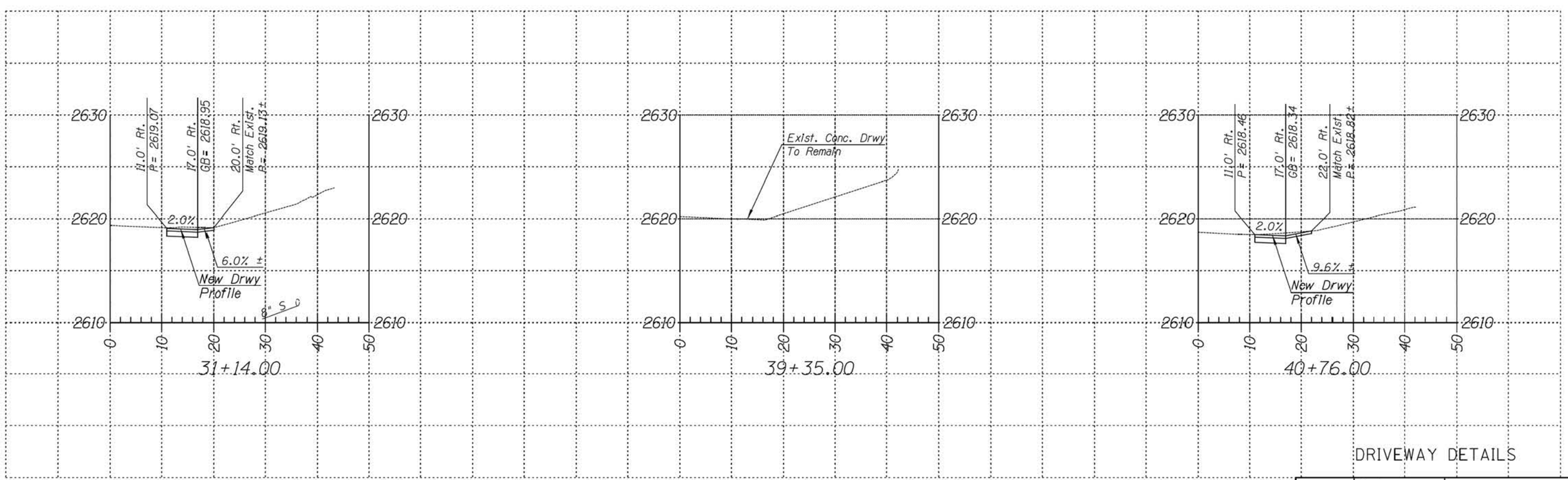
STA 40+76 (RT)



DRIVEWAY DETAILS

SCALES:	Horiz:	Sheet DW2 of DW4	Page 31 of 60
	Vert:		

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

			Date
Designed	J DANA		04/2014
Drawn	J DANA		04/2014
Checked	D MOSEKE		04/2014
Proj. Engr.			

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 34006 DOUGLAS MICHAEL MOSEKE ARIZONA U.S.A. Date Signed 09/30/2014 Expires 09/30/2014

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5151 East Broadway Blvd. Suite 400
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PH: [520] 750-7474
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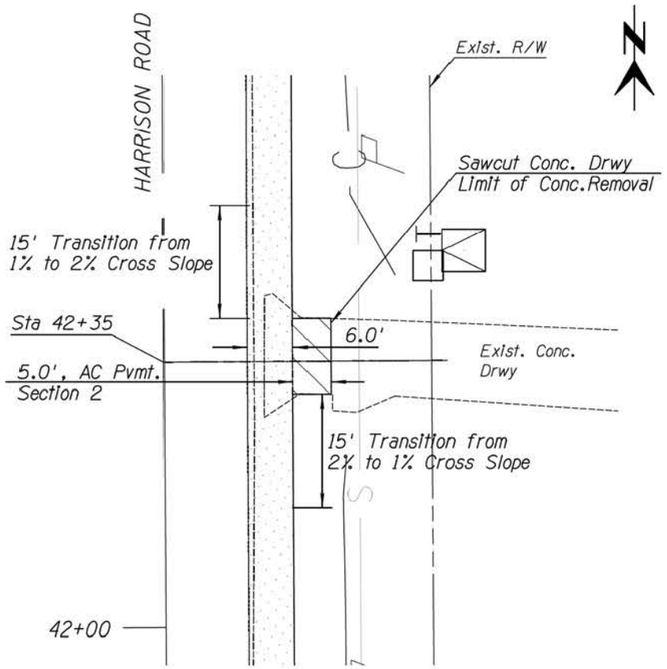
DRIVEWAY DETAILS

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

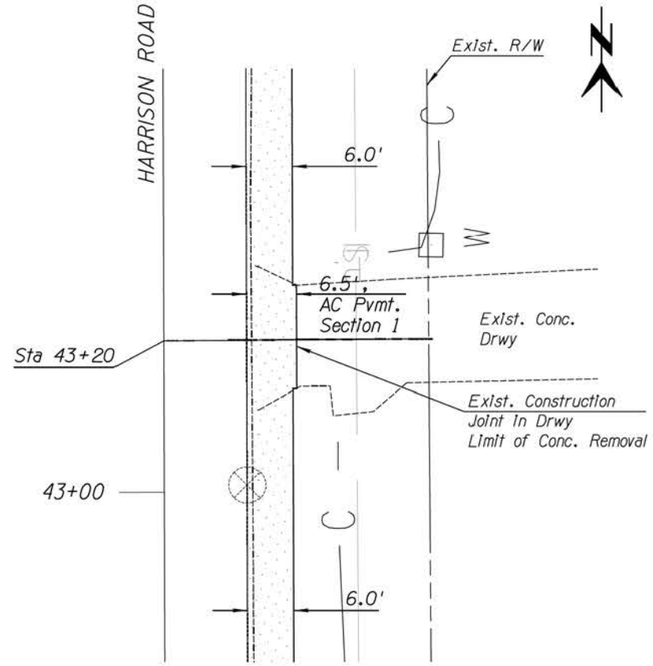
5/14/2014 V:\3281711\AC\1181718026 - HARRISON ROAD\DESIGN\DGN\026_DRW182.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	32	60	

0000 PM PPM



DRIVEWAY
STA 42+35 (RT)



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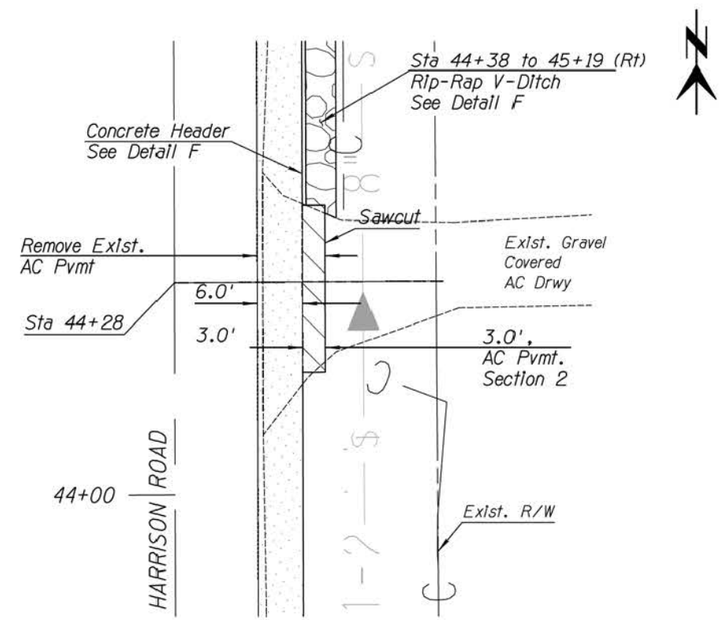
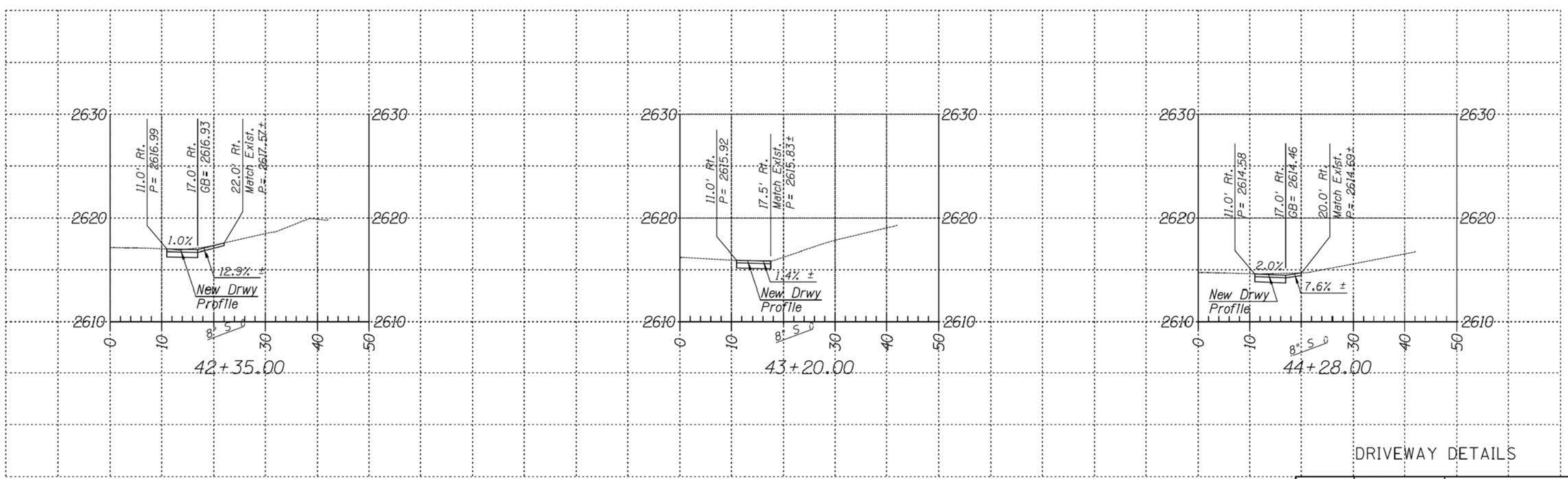
STA 43+20 (RT)



DRIVEWAY
STA 44+28 (RT)



DRIVEWAY DETAILS

SCALES:	Horiz:	Sheet DW3 of DW4	Page 32 of 60
	Vert:		

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 34006 DOUGLAS MICHAEL MOSEKE ARIZONA U.S.A. Expires 09/30/2014

Stantec
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Tucson, AZ 85711
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FAX: (520) 750-7470
www.stantec.com

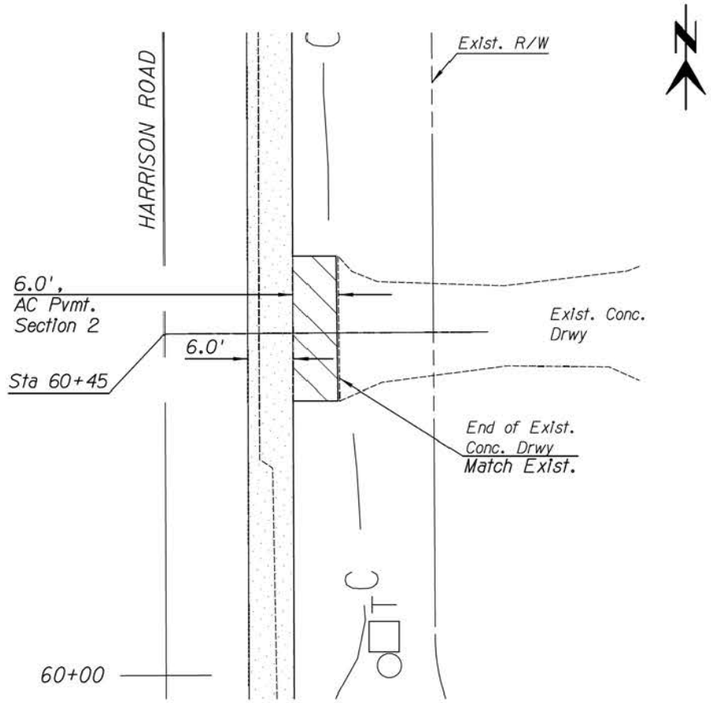
DRIVEWAY DETAILS

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

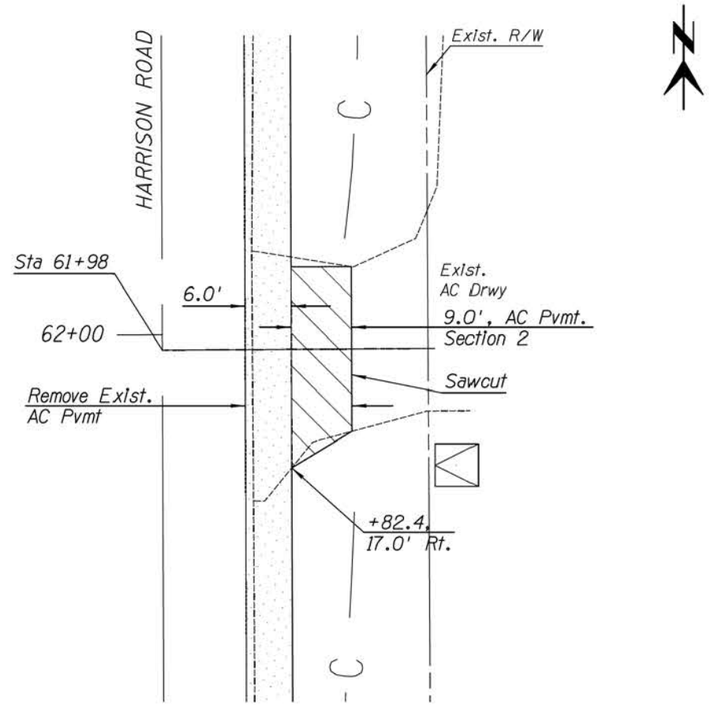
5/14/2014 V:\1328171\ACI\191178026 - HARRISON ROAD\DESIGN\DGN\026_DRW103.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	33	60	

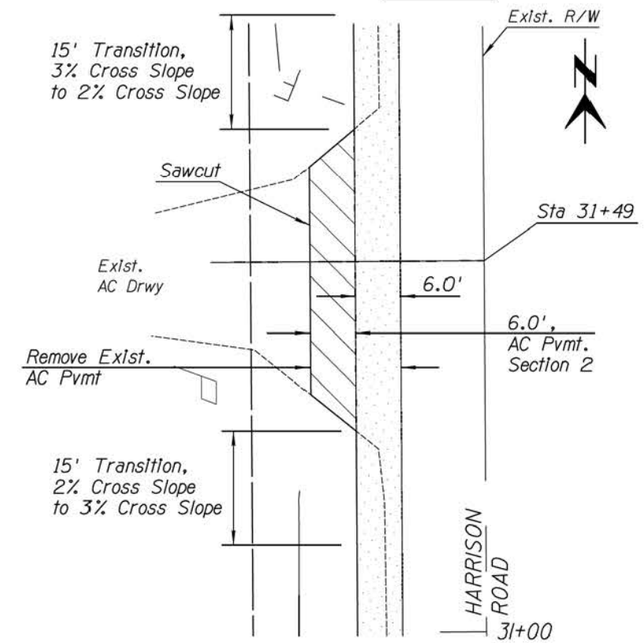
0000 PM PPM



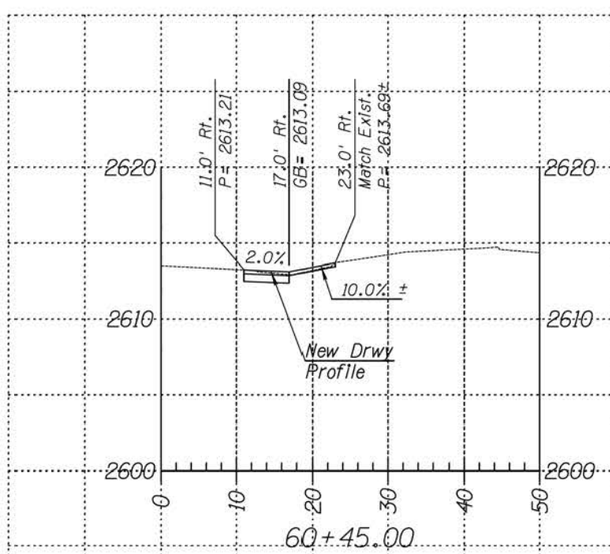
DRIVEWAY
STA 60+45 (RT)

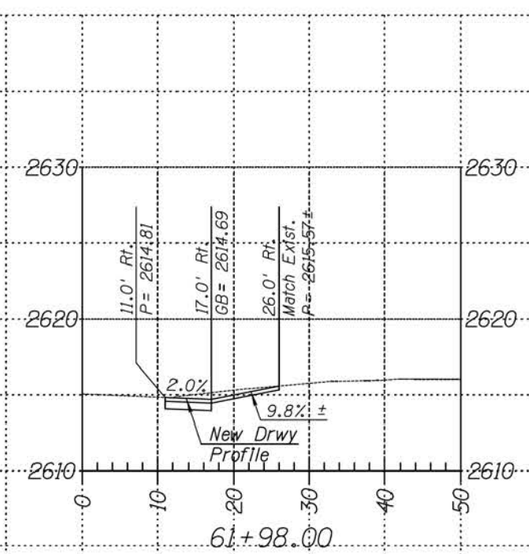


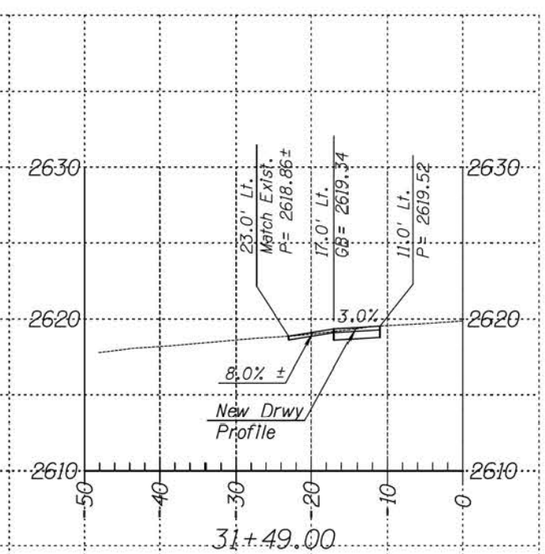
DRIVEWAY
STA 61+98 (RT)



DRIVEWAY
STA 31+49 (LT)







DRIVEWAY DETAILS

SCALES:	Horiz: 1"=10'	Sheet DW4 of DW4	Page 33 of 60
	Vert: 1"=5'		

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 34006 DOUGLAS MICHAEL MOSEKE ARIZONA U.S.A. Expires 09/30/2014

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DRIVEWAY DETAILS

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

V:\328171\ACI\181178026 - HARRISON ROAD\DESIGN\DGN\026_DRW184.DGN

5/14/2014

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	34	60	

0000 PM PPM

PAVEMENT MARKING GENERAL NOTES

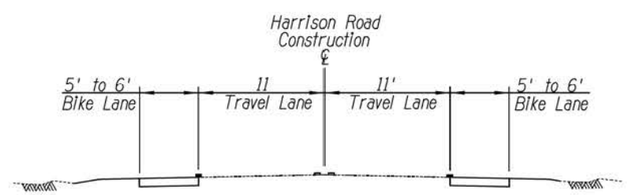
1. ALL EQUIPMENT/MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT CITY OF TUCSON / PIMA COUNTY (COT/PC) STANDARD SPECIFICATIONS AND THE STANDARD DETAILS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS AND THE APPROVED PLANS. ALL PAVEMENT MARKING SHALL BE INSTALLED IN ACCORDANCE WITH THE PC/COT PAVEMENT MARKING DESIGN MANUAL.
2. THE STRIPING CONTRACTOR SHALL CONTACT THE PIMA COUNTY PAVEMENT MARKING SUPERVISOR (520-740-2624) AT LEAST THREE WORKING DAYS IN ADVANCE OF ANY PAVEMENT MARKING LAYOUT BEING INSTALLED TO SCHEDULE INSPECTION AND APPROVAL OF PAVEMENT MARKING.
3. UPON APPROVAL OF THE PAVEMENT MARKING LAYOUT, THE PIMA COUNTY PAVEMENT MARKING SUPERVISOR WILL ISSUE WRITTEN AUTHORIZATION TO CONTRACTOR TO PROCEED WITH INSTALLING ALL PAVEMENT MARKINGS AND ASSOCIATED REFLECTIVE RAISED PAVEMENT MARKINGS.
4. THE PERMANENT PAVEMENT MARKINGS MAY BE MODIFIED AS DIRECTED AND APPROVED BY THE TRAFFIC ENGINEER OR HIS DESIGNEE.
5. THE POSTED SPEED LIMIT IS 45 MPH.
6. ALL LANE DIMENSIONS ARE MEASURED FROM THE CENTER OF LANE LINE, CENTER OF DOUBLE LANE LINE, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
7. THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, APPLICABLE MARKING DETAILS, AND SPECIFIED PIMA COUNTY STANDARDS WHEN INSTALLING PAVEMENT STRIPING, SYMBOLS, LEGENDS, AND MARKERS.
8. PAINTED LAYOUT STRIPING SHALL BE 15 MILS (0.015") THICK, WATER BASED PAINT PLACED ON THE FINAL PAVEMENT SURFACE. PAINTED LAYOUT STRIPING SHALL BE INSTALLED WITHIN FIVE WORKING DAYS OF THE FINAL PAVEMENT SURFACE BEING COMPLETED.
9. PAINTED SYMBOLS AND LEGENDS SHALL BE APPLIED AT THE SAME TIME AS THE PAINTED STRIPING, WITH THE EXCEPTION OF BIKE LANE SYMBOLS AND WORDS (SUCH AS STOP, AHEAD, ONLY ETC.).
10. THE FINAL LONGITUDINAL STRIPING SHALL BE 60 MIL (0.060") THICK HOT SPRAYED THERMOPLASTIC REFLECTORIZED STRIPING PLACED OVER THE PAINTED LAYOUT STRIPING WITHIN 21 TO 30 CALENDAR DAYS OF THE FINAL PAVEMENT SURFACE BEING COMPLETED. ALL PREVIOUSLY EXEMPTED LONGLINE MARKINGS SHALL BE APPLIED DURING THE FINAL LONGITUDINAL STRIPING.
11. ALL FINAL TRANSVERSE STRIPING SHALL BE HOT-SPRAYED THERMOPLASTIC 90 MILS THICK (0.090") INCLUDING SYMBOLS AND LEGENDS WITH THE EXCEPTION OF BIKE LANE SYMBOLS WHICH MAY BE EXTRUDED THERMOPLASTIC OR COLD PREFORMED THERMOPLASTIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PAVEMENT MARKINGS ON THE FINAL SURFACE COURSE FOLLOWING ONE CONTROL LINE PER DIRECTION OF TRAVEL CONSISTING OF CONTROL POINTS THAT HAVE BEEN SET TO NO MORE THAN 50 FEET APART ON CURVE SECTIONS AND 200 FEET IN TANGENT SECTIONS WHERE THE PAVEMENT MARKING PATTERN DOES NOT CHANGE.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE CONSTRUCTION JOINT IS NO MORE THAN ONE FOOT OFFSET FROM THE FINAL STRIPING.
14. ALL RAISED PAVEMENT MARKERS (RPMs) SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
15. ALL RAISED PAVEMENT MARKERS (RPMs) SHALL BE INSTALLED PER THE CURRENT EDITION OF THE PC/COT PAVEMENT MARKING MANUAL.
16. 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.
17. UNLESS OTHERWISE NOTED, ALL PAVEMENT MARKINGS SHALL BE INSTALLED BY THE CONTRACTOR.
18. UPON FINAL INSPECTION A WRITTEN ACCEPTANCE OR ITEMIZED PUNCHLIST OF MISSING OR UNACCEPTABLE PAVEMENT MARKINGS SHALL BE SUBMITTED TO THE CONTRACTOR AND PIMA COUNTY BY THE TRAFFIC ENGINEER OR DESIGNATED REPRESENTATIVE.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL STRIPING UNTIL PROJECT IS APPROVED FOR "CONSTRUCTION ACCEPTANCE" BY PIMA COUNTY (FULLY OPEN TO TRAFFIC, ALL PUNCH LIST ITEMS ARE COMPLETED, AND ONE YEAR WARRANTEES BEGIN).
20. THE PC/DOT PAVEMENT MARKING MANUAL IS AVAILABLE ONLINE AT. http://dot.pima.gov/trafeng/DesignManual/PavementManual.pdf

SIGNING GENERAL NOTES

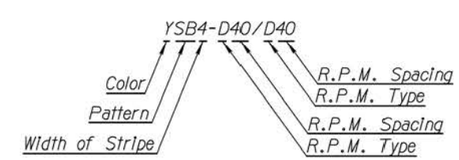
1. ALL EQUIPMENT, MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT CITY OF TUCSON / PIMA COUNTY (COT/PC) "STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS" AND THE "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS," THE SPECIAL PROVISIONS AND THE PLANS.
2. ALL SIGNS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE LATEST EDITION OF THE PIMA COUNTY/CITY OF TUCSON TRAFFIC SIGNING DESIGN MANUAL, THESE PLANS, AND THE SPECIAL PROVISIONS.
3. SIGNS MAY BE MODIFIED AND LOCATIONS ADJUSTED TO FIT CONDITIONS AT THE DISCRETION OF THE TRAFFIC ENGINEER.
4. SIGN PLACEMENT SHALL BE BASED ON THE POSTED SPEED LIMIT.
5. POST LENGTHS INDICATED ON SIGN SUMMARY SHEETS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ACTUAL POST LENGTHS.
6. ALL PERFORATED POSTS SHALL BE INSTALLED IN A CONCRETE FOUNDATION, UNLESS OTHERWISE DIRECTED BY THE TRAFFIC ENGINEER.
7. ALL SIGN STATION LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ACTUAL SIGN LOCATIONS WITH THE TRAFFIC ENGINEER PRIOR TO THE INSTALLATION OF ALL SIGNS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH BLUE STAKE, FOR INSTALLING ALL TRAFFIC SIGNS IN THE FIELD AND FOR MAINTAINING ALL SIGNING UNTIL PROJECT IS APPROVED FOR "CONSTRUCTION ACCEPTANCE" BY PIMA COUNTY (FULLY OPEN TO TRAFFIC, ALL PUNCH LIST ITEMS ARE COMPLETED, AND ONE YEAR WARRANTEES BEGIN).
9. ALL NEW SIGNS SHALL HAVE 0.080 GAUGE, RADIUS CORNER, ALUMINUM BACKING UNLESS OTHERWISE NOTED.
10. PRIOR TO DISTURBING ANY TRAFFIC SIGNS, A SIGN CONDITION INVENTORY OF ALL EXISTING SIGNING SHALL BE CONDUCTED BY THE CONTRACTOR AND PROVIDED TO THE SIGN SHOP SUPERVISOR (520-740-2611). INVENTORY SHALL INDICATE CURRENT SIGN LOCATION AND CONDITION, INCLUDING ANY EXISTING DAMAGE OR DEFICIENCIES.
11. ANY SIGNS AND POSTS BEING RE-USED ON THIS PROJECT SHALL BE STOCKPILED IN A MANNER TO AVOID DAMAGE AND MAINTAIN THE INTEGRITY OF THE SIGNS. SAFE STORAGE OF STOCKPILE AND PAYMENT FOR DAMAGE TO STOCKPILE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. ALL SIGNS AND POSTS NOT BEING RE-USED ON THE PROJECT SHALL BE DISMANTLED, STACKED AND DELIVERED TO THE OWNER (CITY OR COUNTY) BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFE STORAGE AT THE CONSTRUCTION SITE UNTIL DELIVERY, AND THE SAFE UNLOADING OF THE SALVAGED MATERIAL. NOTIFICATION OF DELIVERY SHALL BE MADE AT LEAST TWO WORKING DAYS PRIOR TO DELIVERY. PIMA COUNTY SIGN SHOP 1313 S. MISSION ROAD (520-740-2631). NO FRIDAY DELIVERIES.
13. ALL EXISTING STOP SIGNS LOCATED AT INTERSECTING SIDE STREETS WILL REMAIN IN THEIR CURRENT LOCATION UNLESS OTHERWISE DIRECTED.

PAVEMENT MARKING QUANTITIES

Bid Item	Item	Unit	Quantity
7040010	Pavement Marking (White Hot Sprayed Thermoplastic) (0.060")	L.Ft	35815
7040020	Pavement Marking (Yellow Hot Sprayed Thermoplastic) (0.060")	L.Ft.	4471
7040030	Pavement Legend (Preformed, Type 1, Single Arrow)	Each	11
7040110	Pavement Marking (White Hot Sprayed Thermoplastic) (Transverse) (0.090")	L.Ft.	1135
7050060	Pavement Legend (Preformed, Type 1, Legend Only)	Each	4
7050080	Pavement Legend (Preformed, Type 1, Bike lane Legend and Symbol)	Each	18
7060025	Pavement Marker, Reflective, (Type D, Yellow, Two Way)	Each	176
7060030	Pavement Marker, Reflective, (Type G, Clear, One Way)	Each	13
7080001	Pavement Marking Painted	L.Ft.	41421
7080010	Painted Pavement Symbol or Legend	Each	15



PAVEMENT MARKING TYPICAL SECTION



LINE STYLE DESIGNATION

Priscilla S. Cornelio, P.E., Director

			Date
Designed	J DANA		04/2014
Drawn	J DANA		04/2014
Checked	D MOSEKE		04/2014
Proj. Engr.			

No.	Revision Description	Engineer	Date

Stantec
5151 East Broadway Blvd. Suite 400
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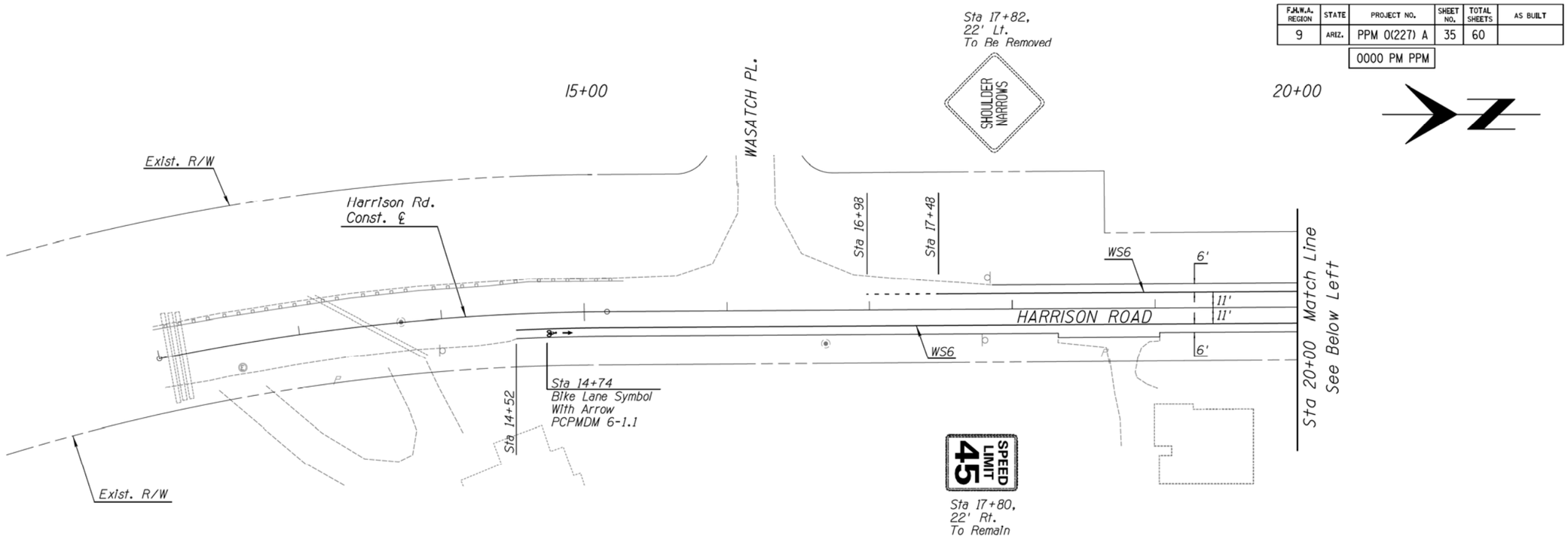
FAX: [520] 750-7470
www.stantec.com

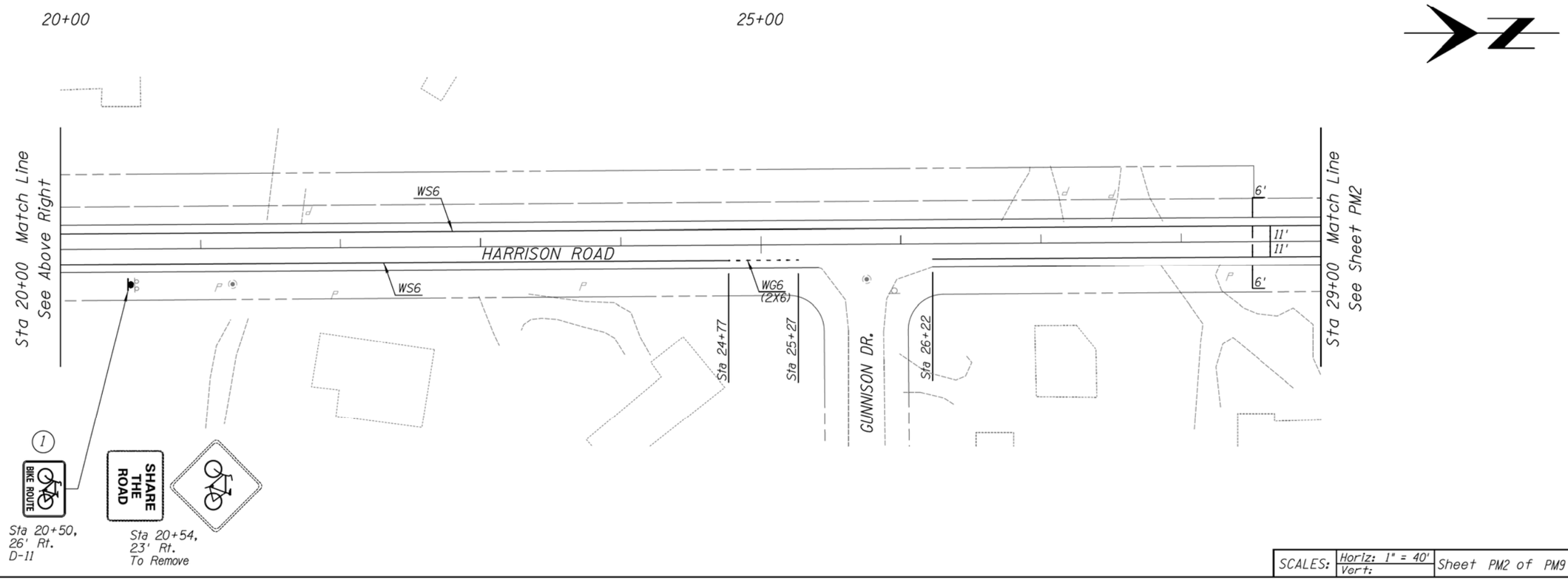
Pima County Department of Transportation

PAVEMENT MARKING & SIGNING GENERAL NOTES
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: Vert: | Sheet PM1 of PM9 | Page 34 of 60

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	35	60	
		0000 PM PPM			





Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

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PAVEMENT MARKING PLANS

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 40' Vert:

Sheet PM2 of PM9

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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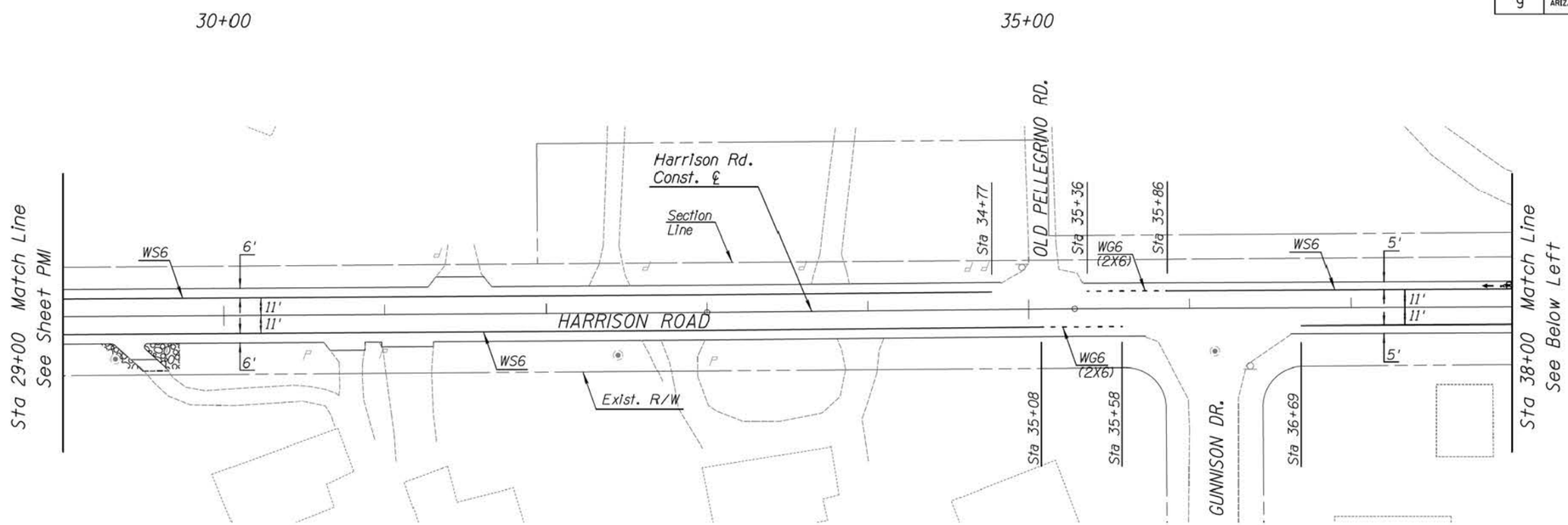
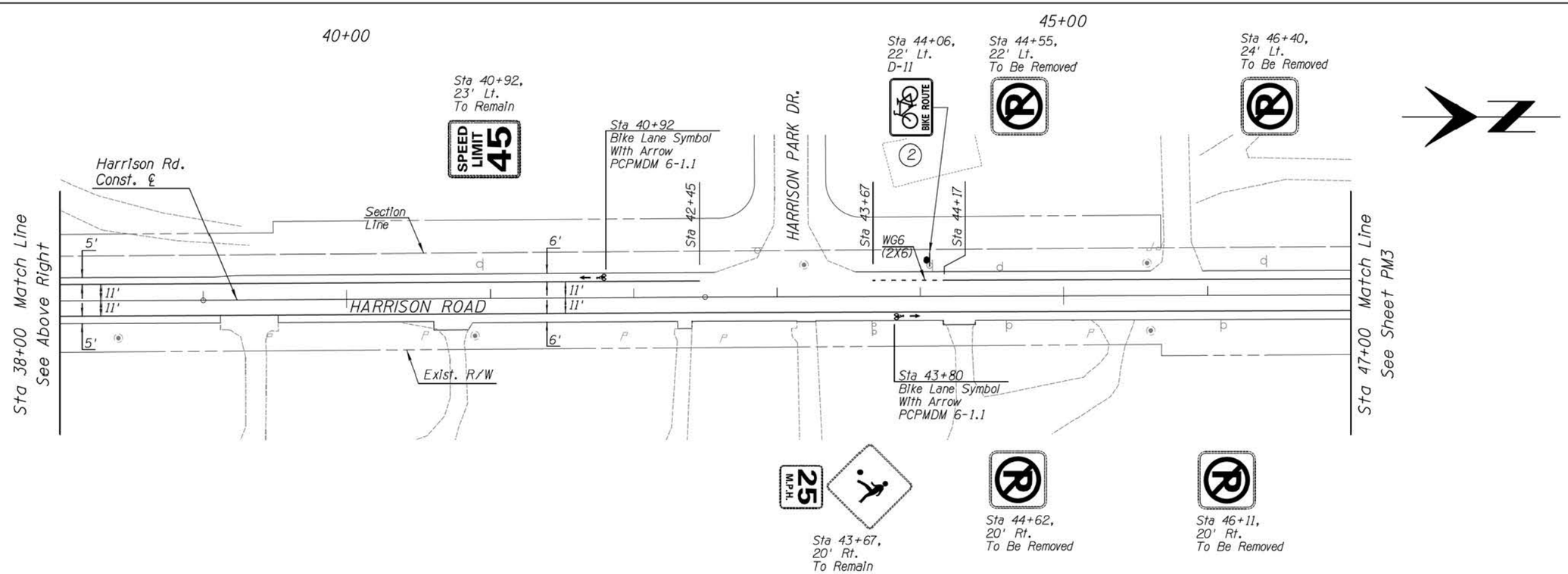
0000 PM PPM





Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 34006 DOUGLAS MICHAEL MOSEKE ARIZONA U.S.A. Date Signed 05/14/14 Expires 09/30/2014

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PAVEMENT MARKING PLAN

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

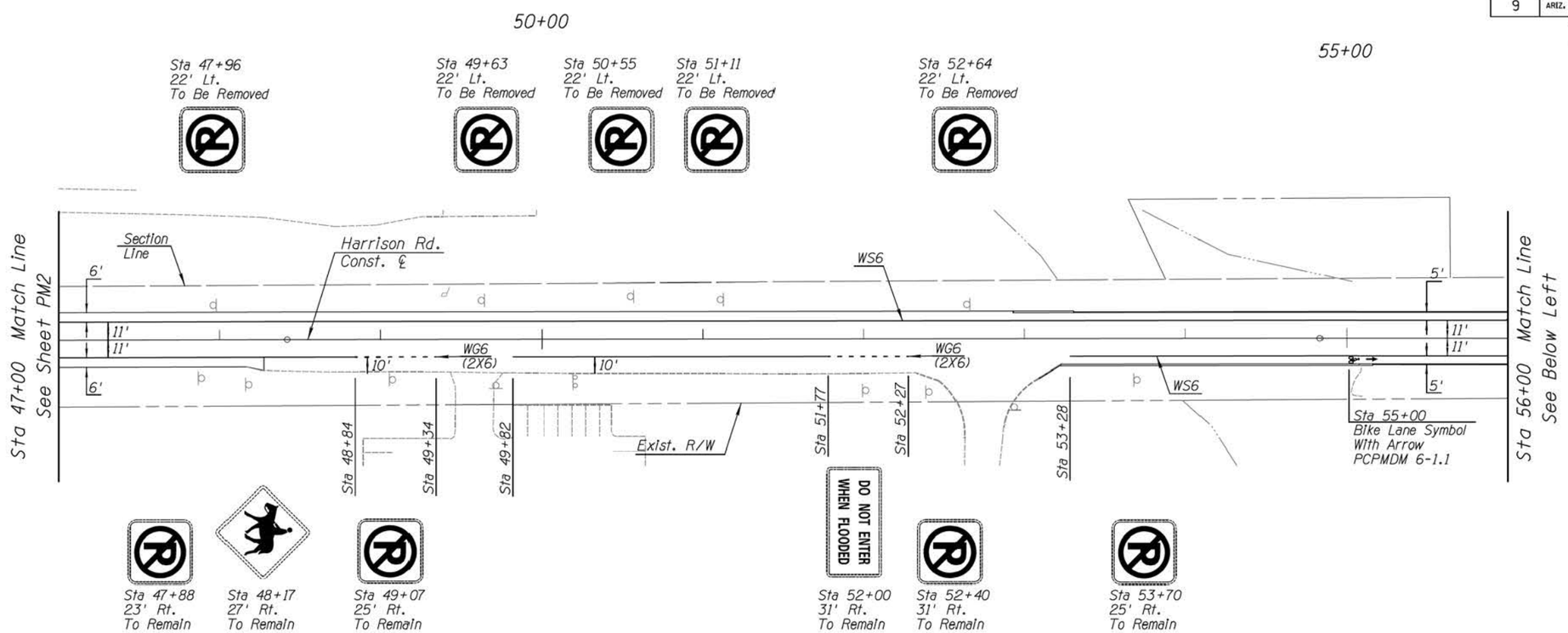
SCALES: Horiz: 1" = 40' Vert:

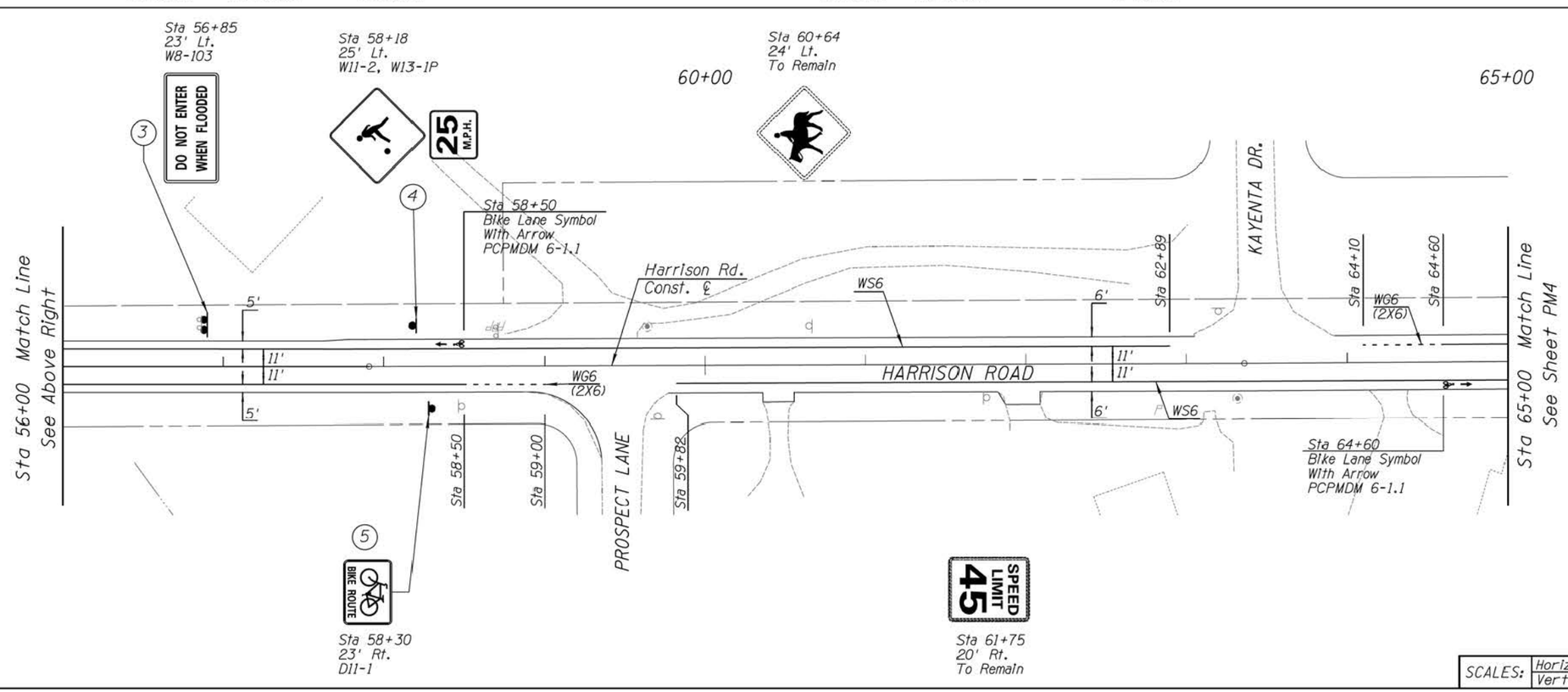
Sheet PM3 of PM9

5/14/2014 V:\32817170\CIVIL\181718026 - HARRISON ROAD\DESIGN\DGN\026-SH01PEDD.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	37	60	

0000 PM PPM





Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
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Pima County Department of Transportation

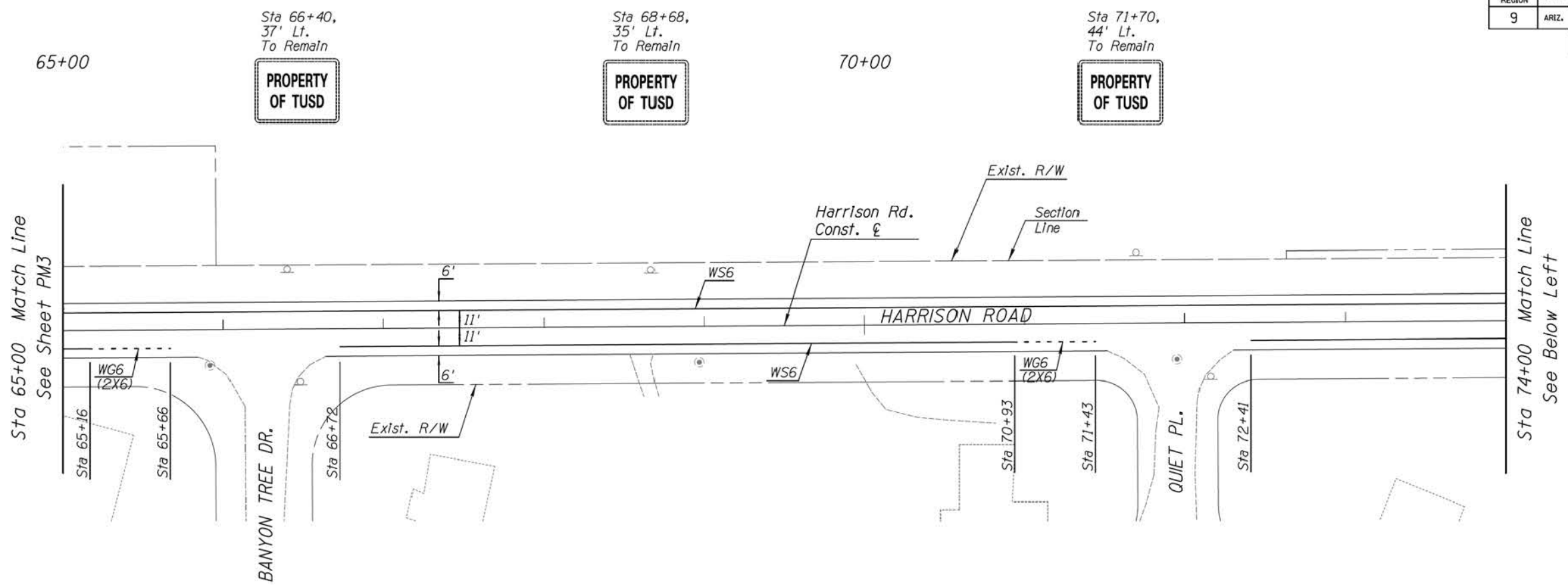
PAVEMENT MARKING PLAN

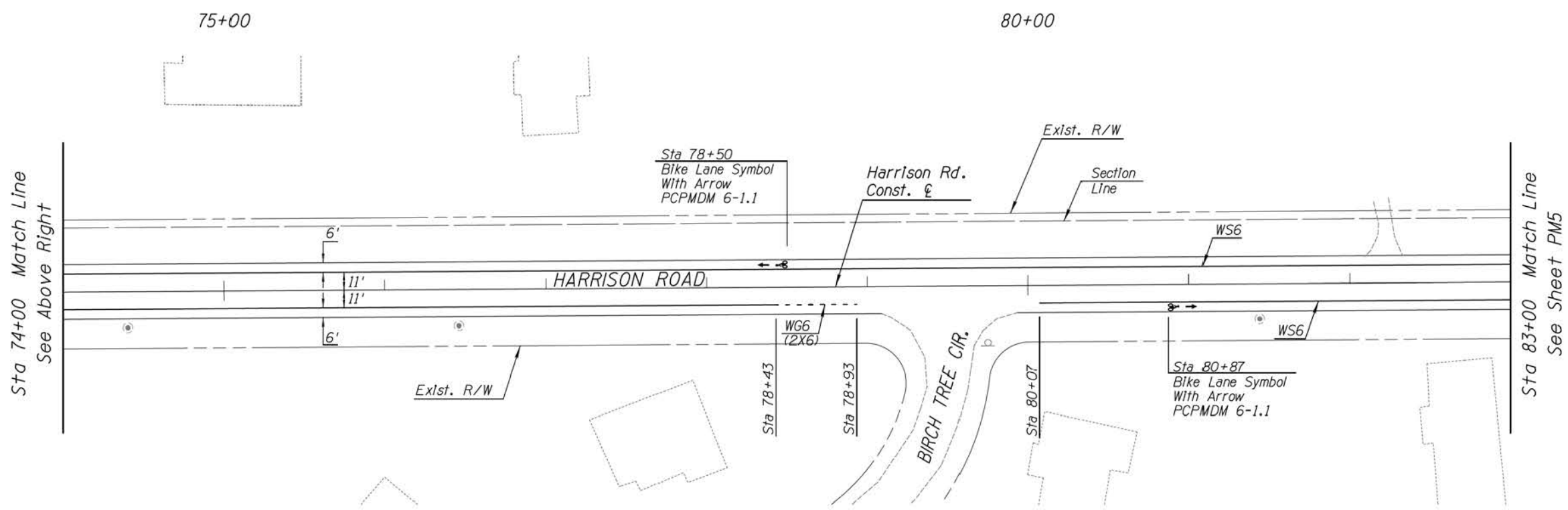
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES:	Horiz: 1" = 40' Vert:	Sheet PM4 of PM9	Page 37 of 60

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	38	60	

0000 PM PPM





Priscilla S. Cornelio, P.E., Director

	Designed	J DANA	04/2014
	Drawn	J DANA	04/2014
	Checked	D MOSEKE	04/2014
	Proj. Engr.		

No.	Revision Description	Engineer	Date

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Pima County Department of Transportation

PAVEMENT MARKING PLAN

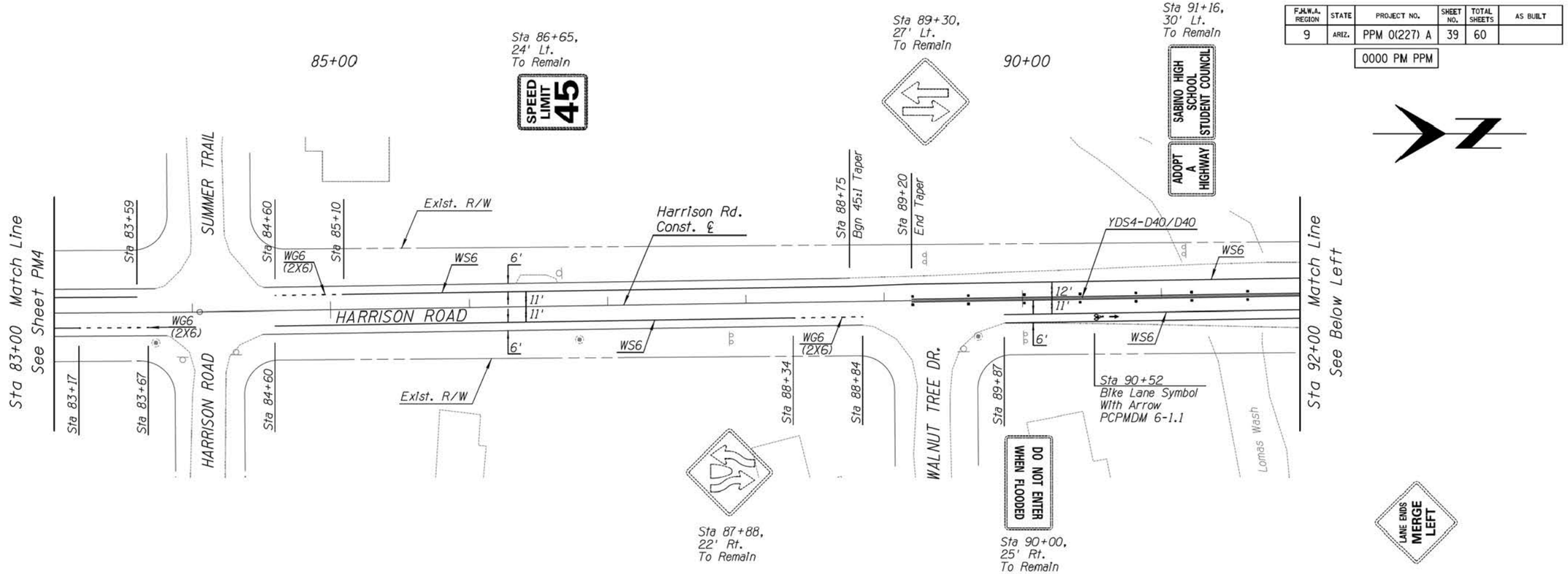
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

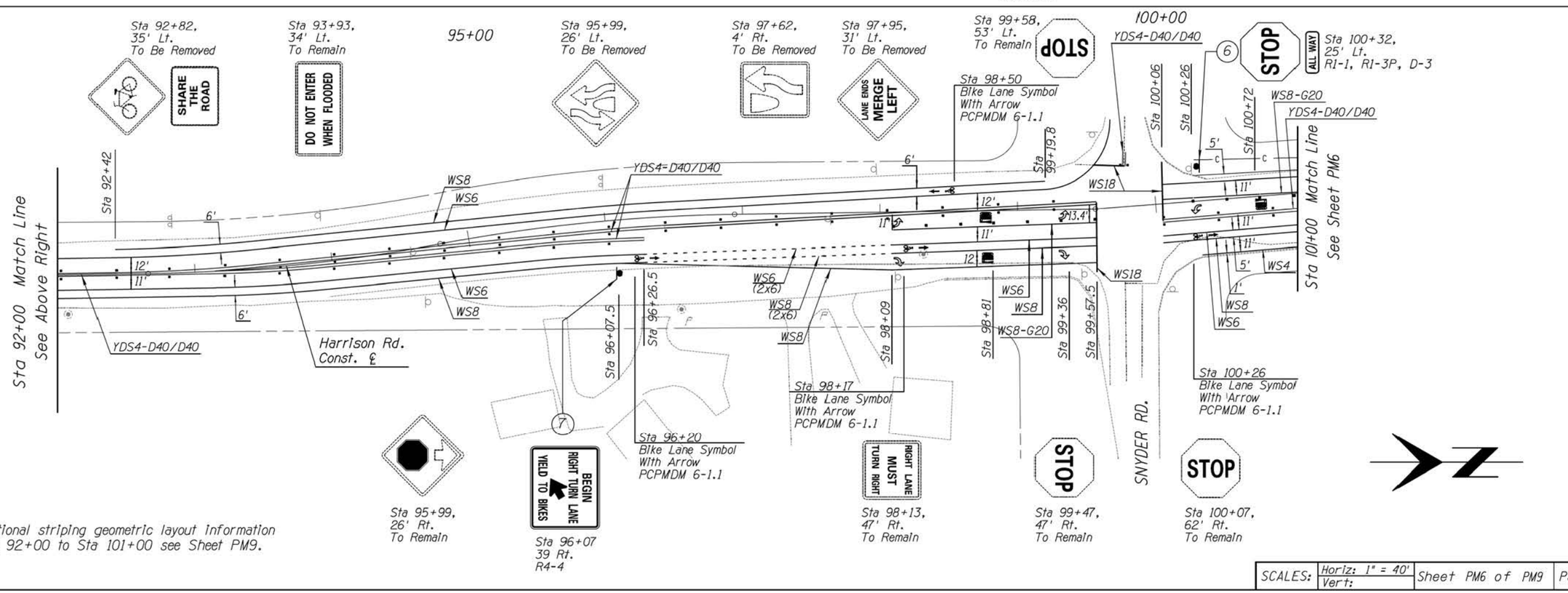
SCALES: Horiz: 1" = 40' Vert:

Sheet PM5 of PM9

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	39	60	

0000 PM PPM





Note: For additional striping geometric layout information from Sta 92+00 to Sta 101+00 see Sheet PM9.

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

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Pima County Department of Transportation

PAVEMENT MARKING PLAN

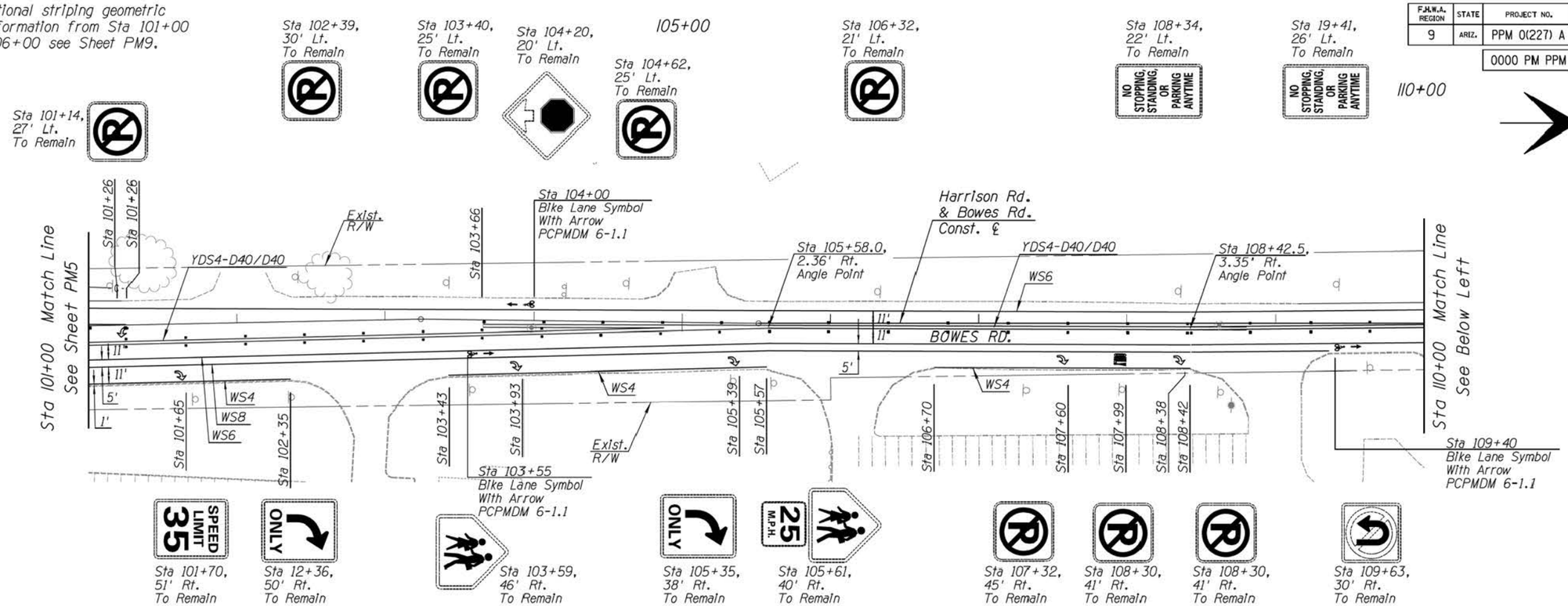
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

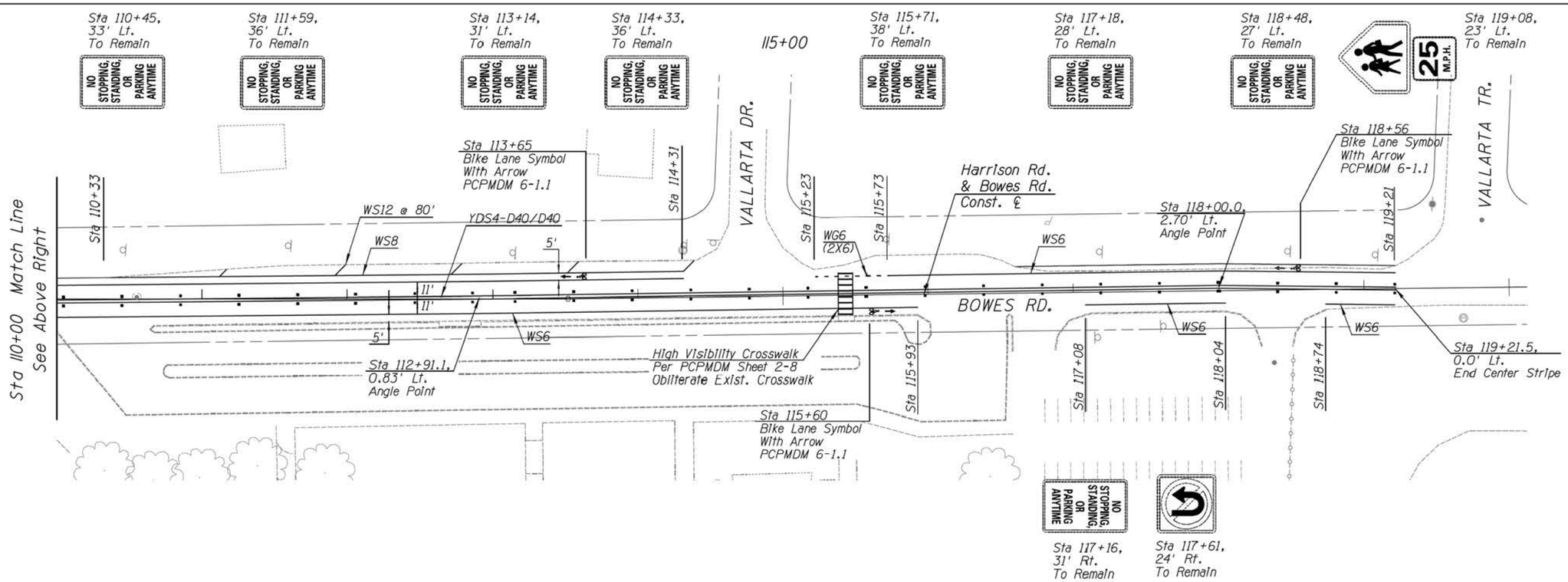
SCALES: Horiz: 1" = 40' Vert:

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	40	60	

0000 PM PPM

Note: For additional striping geometric layout information from Sta 101+00 to Sta 106+00 see Sheet PM9.





Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

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Pima County Department of Transportation

PAVEMENT MARKING PLAN

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 40' Vert:

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	41	60	

0000 PM PPM

Sign Number	Sign Code	Work: New	Work: Existing: Replace Panel	Work: Existing: Overlay Panel	Work: Existing: Relocate	Work: Existing: See Remarks	Offset (ft)	Panel: Legend	Panel: Width (ft)	Panel: Height (ft)	Panel: Area (sq ft)	Panel: Type	Panel: Min Sheeting Type	Panel: Bid Item No.	Ground Mounted: Foundations	Ground Mounted: Posts: Type	Ground Mounted: Posts: Total Length (ft)	Ground Mounted: New Slipbases	Ground Mounted: Retrofit Slipbases	Ground Mounted: Stringer Type	Ground Mounted: Stringer Length (ft)	Location / Remarks
1	D11-1	x						Bike Route	2.0	1.5	3.0	RWM	4	6080016	1	P1	8'					Sta 20+50, 26' Rt.
2	D11-1	x				x		Bike Route	2.0	1.5	3.0	RWM	4	6080016	1	P1	8'					Sta 44+06, 22' Lt./ Salvage Existing Sign Panel to PCDOT
3	W8-103	x				x		Do Not Enter When Flooded	4.0	2.0	8.0	RWM	4	6080016	2	P1	20'					Sta 59+20, 24' Lt./ Salvage Existing Sign Panel to PCDOT
4	W11-2	x				x		Pedestrian	2.5	2.5	6.2	RWM	4	6080016	1	P1	12'					Sta 57+00, 24' Lt./ Salvage Existing Sign Panel to PCDOT
	W13-1P	x				x		35 MPH	1.5	1.5	2.2	RWM	4	6080016								
5	D11-1	x				x		Bike Route	2.0	1.5	3.0	RWM	4	6080016	1	P1	8'					Sta 58+48, 25' Rt./ Salvage Existing Sign Panel to PCDOT
6	R1-1	x				x		Stop	2.5	2.5	6.2	RWM	4	6080016	1	P1	12'					Sta 100+26, 26' Lt./ Salvage Existing Sign Panel to PCDOT
	R1-3P	x						All Way	1.5	0.5	0.7	RWM	4	6080016								
	D-3	x						Street Name- Snyder Rd.	2.5	0.5	1.2	RWM	4	6080016								See Detail Below
	D-3	x						Street Name- Bowes Rd.	2.5	0.5	1.2	RWM	4	6080016								See Detail Below
7	R4-4	x				x		Begin Right Turn Lane	2.5	3.0	7.5	RWM	4	6080016	1	P1	10'					Sta 96+07, 39' Rt.

Notes:

1. Signing General Notes, see Sheet PM1
2. The Engineer shall verify post lengths and elevations.
3. The engineer may shift a sign in order to achieve a more desirable location.
4. Quantities are approximate and for contractor's information only.
5. Height of Post Includes 2.5' Foundation.

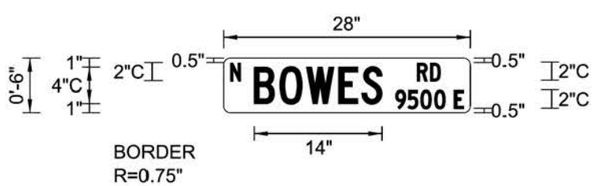
Panel Types:

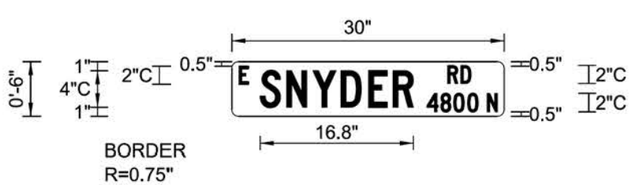
RWM: Regulatory, Warning, or Marker
F-DA: Flat-sheet aluminum with direct applied or silk-screened characters
F-Dem: Flat-sheet aluminum with demountable characters
Ext: Aluminum extrusions
Incr: Aluminum sheet increment
Over: Overhead (New overlaid extrusions)

NOTE: ALL PI POSTS SHALL BE SINGLE SQUARE TUBE POST. 2 INCH OR V-CHANNEL POST.

Stringer Types:

P: Square-tube post
T: T-section (WT 3x6)





Note:

1. The D-3 street name signs for N Bowes Road and E Snyder Road shall be manufactured in accordance with PC/COT Signing Manual, Sheet No. 9-22.

D-3 STREET NAME SIGN
SNYDER RD. AND BOWES RD.

SIGNING QUANTITIES

BID ITEM	DESCRIPTION	UNIT	QUANTITY
6070010	Sign Post (Perforated) (Single)	L.F.	78
6070110	Foundation for Sign Post (Perforated)	Each	8
6080016	Sign Panel (Traffic Control) (Permanent) (Type IV)	S.F.	43

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

REGISTERED PROFESSIONAL ENGINEER (CIVIL) STATE OF ARIZONA 34006 DOUGLAS MICHAEL MOSEKE Date Signed 03/20/14 Expires 09/30/2014

Stantec
5151 E. East Broadway Blvd. Suite 400
Tucson, AZ 85711
PH: [520] 750-7474
FAX: [520] 750-7470
www.stantec.com

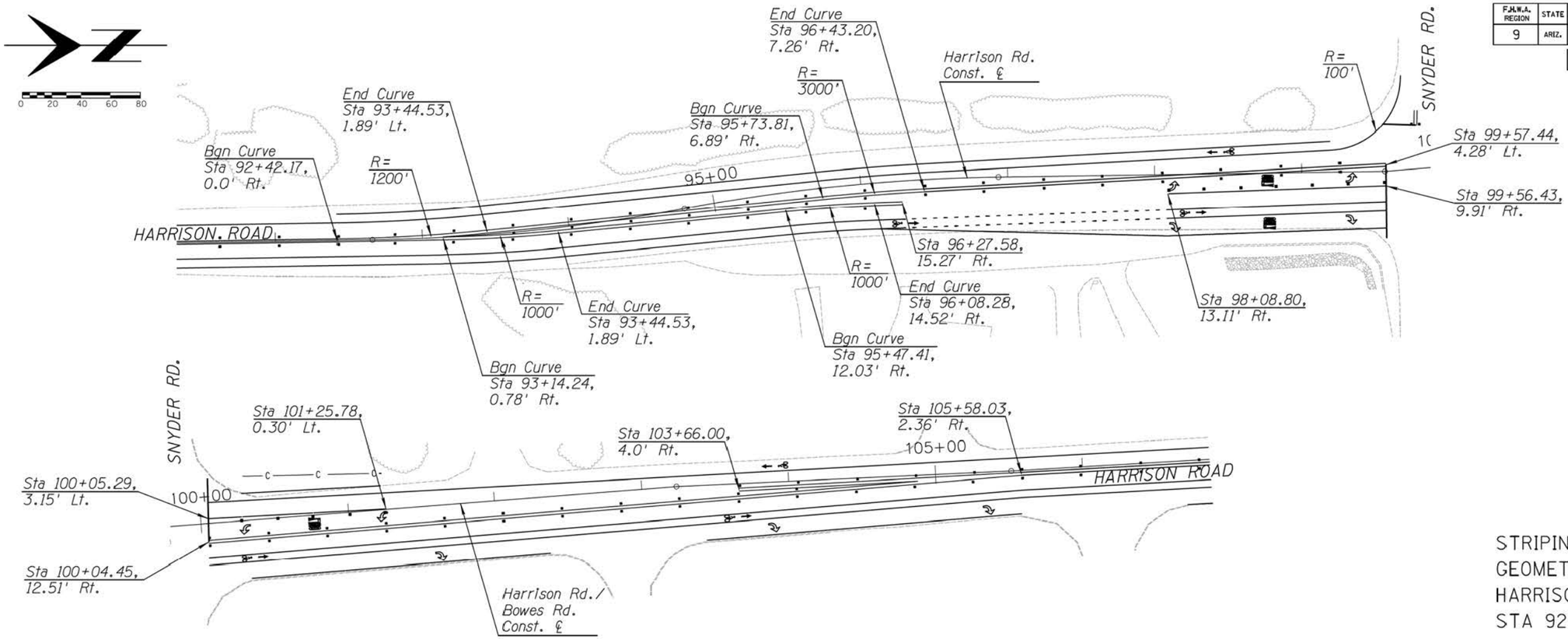
SIGN SUMMARY TABLE
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: Vert:

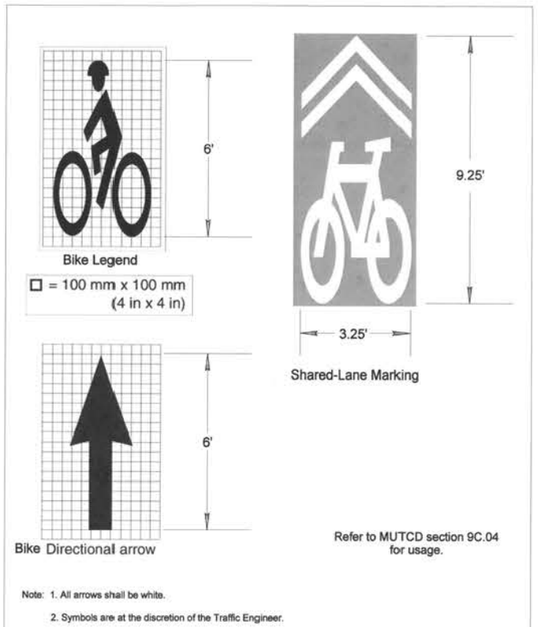
3/14/2014 V:\328171\VAC\11\181718026 - HARRISON ROAD\DESIGN\DGN\026-S1002-MESCLE.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	42	60	

0000 PM PPM



STRIPING DETAIL
GEOMETRIC LAYOUT FOR
HARRISON ROAD/BOWES ROAD
STA 92+00 TO STA 106+00



Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 34006 DOUGLAS MICHAEL MOSEKE ARIZONA U.S.A. Expires 09/30/2014

Stantec
5151 East Broadway Blvd. Suite 400
TUCSON, AZ 85711
PH: [520] 750-7474
FAX: [520] 750-7470
www.stantec.com

Pima County Department of Transportation

STRIPING DETAIL SHEET
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES:	Horiz: 1"=40' Vert:	Sheet PM9 of PM9	Page 42 of 60

5/14/2014 V:\2281711\ACTIVE\181718026 - HARRISON ROAD\DESIGN\DGN\026-STRIPE\PLL01.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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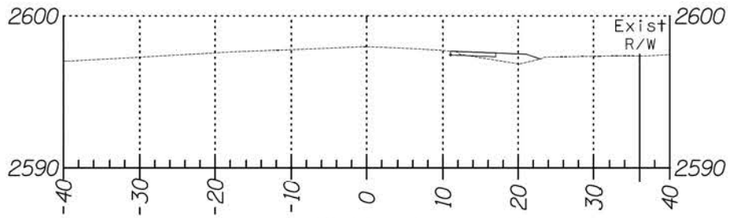
0000 PM PPM



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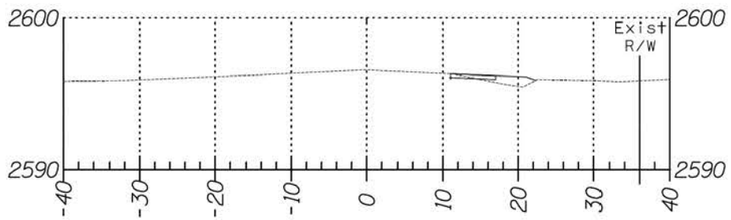

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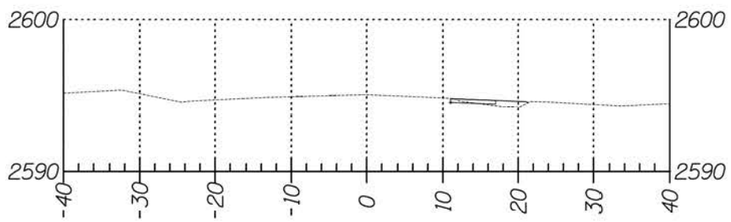

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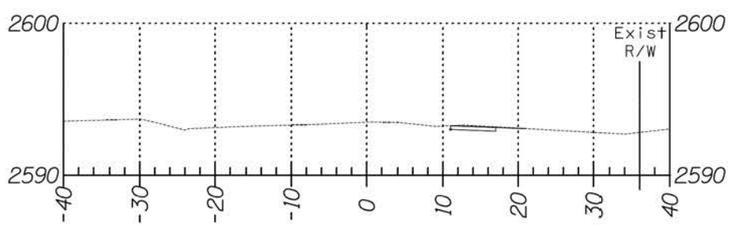

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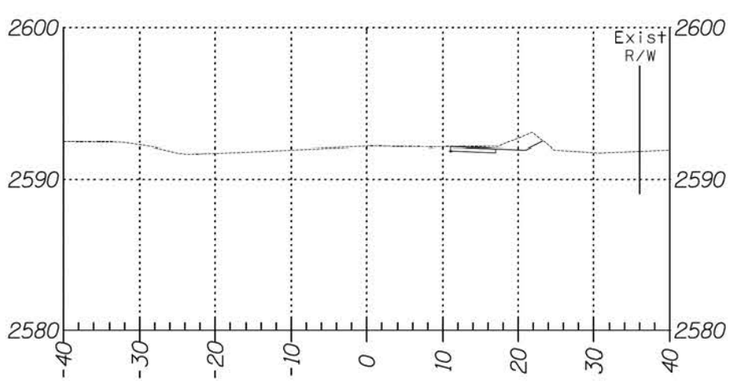

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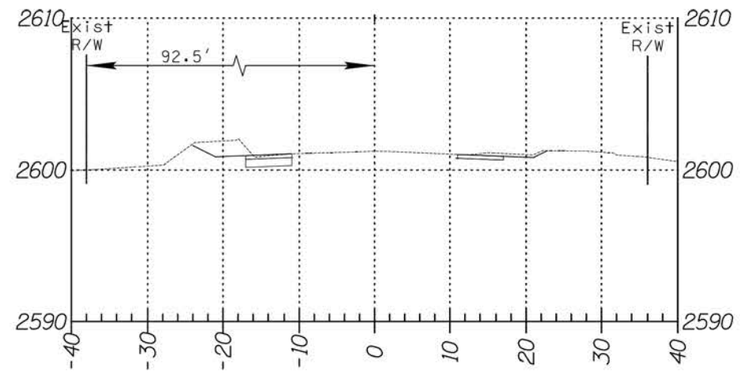

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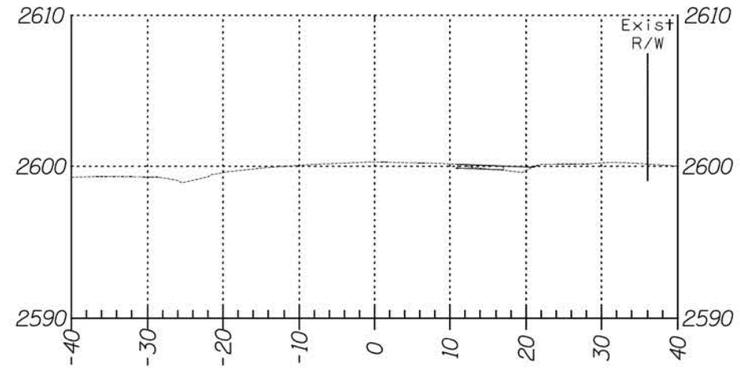

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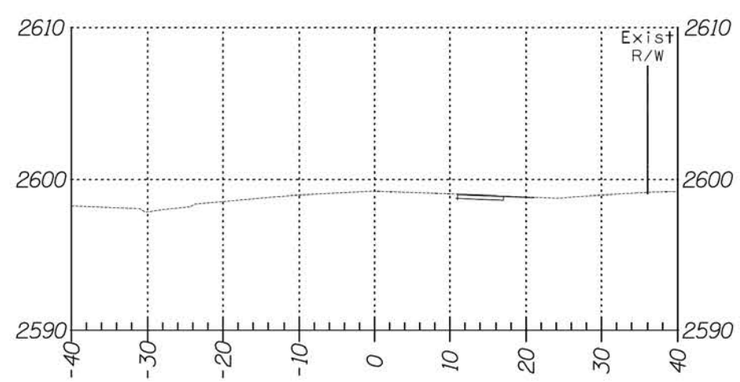

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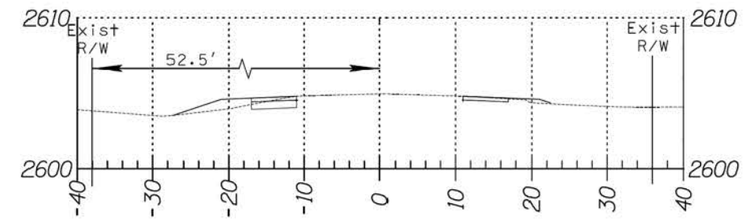

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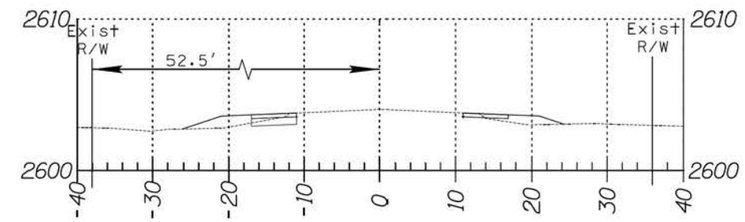

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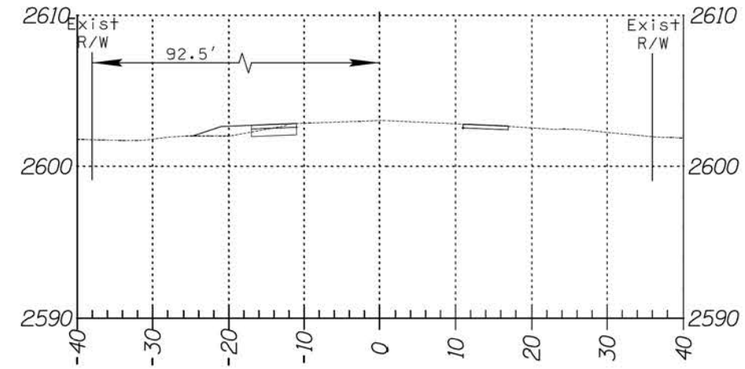

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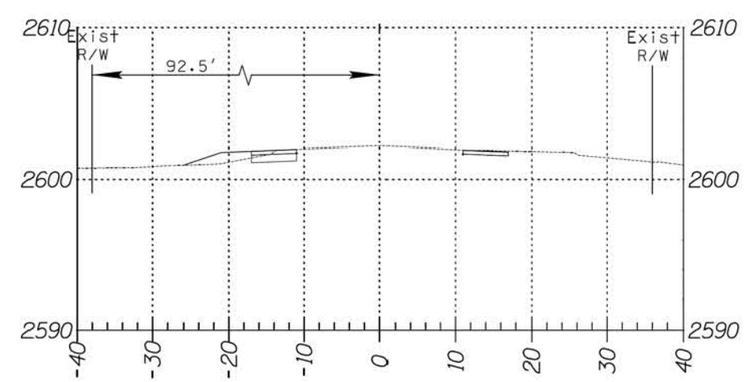


18+50.00

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	Date 04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

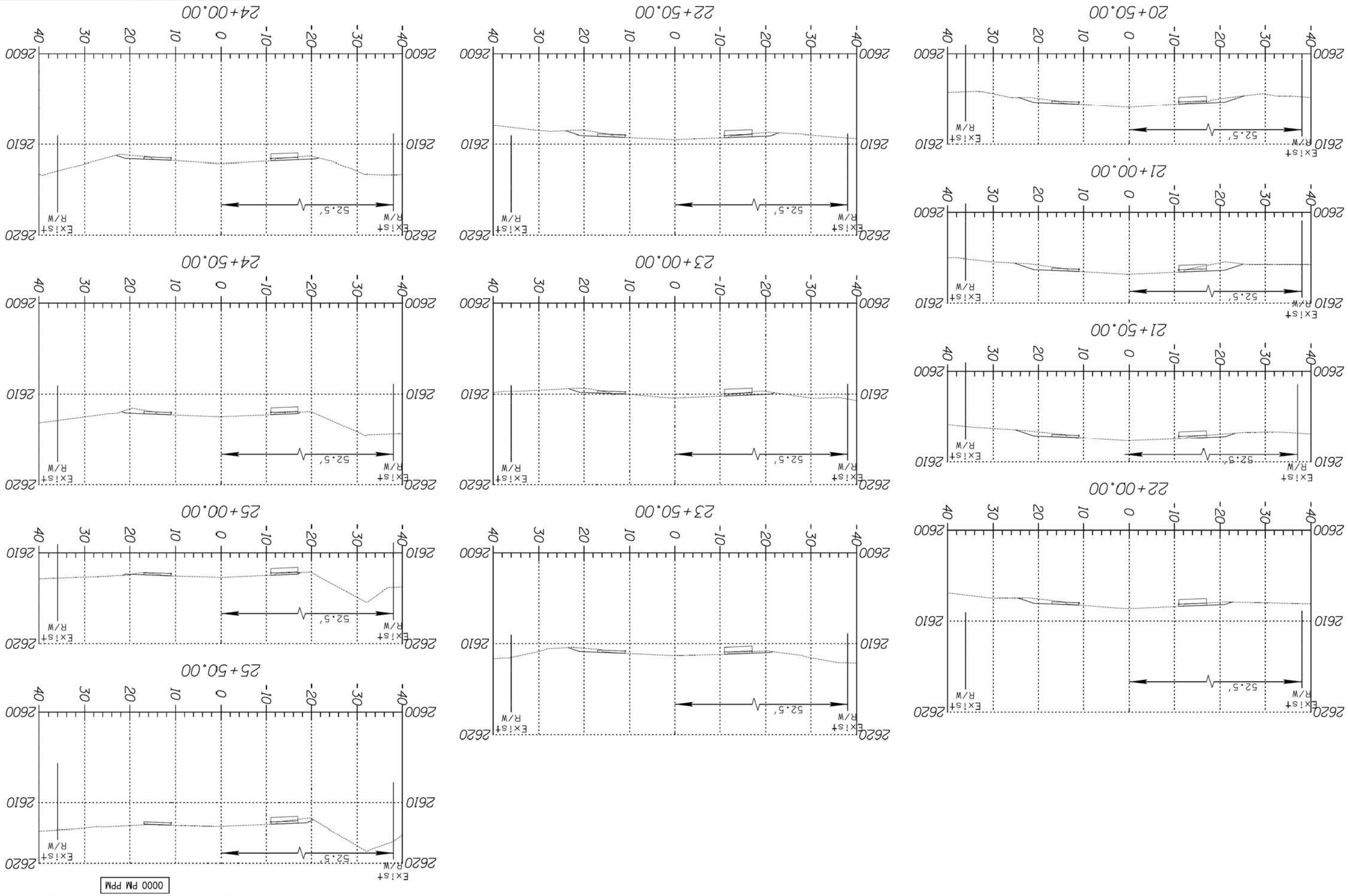
FOR INFORMATION ONLY

Stantec
5151 East Broadway Blvd. Suite 400
Tucson, AZ 85711
PH: [520] 750-7474
FAX: [520] 750-7470
www.stantec.com

Pima County Department of Transportation

CROSS SECTIONS
STA 14+52 TO 20+00
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 10' Vert: 1"= 5'



SCALES:	Horiz: 1" = 10' Vert: 1" = 5'	Sheet X2 of X18	Page 44 of 60

Pima County Department of Transportation

CROSS SECTIONS
STA 20+50 TO 25+50
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #1TEHBL
TRACS No: 0000 PM PPM SL699 OIC

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5151 East Broadway Blvd. Suite 400
Tucson, AZ 85711
PH: (520) 750-7474
FAX: (520) 750-7470
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FOR INFORMATION ONLY

No.	Revision Description	Engineer	Date

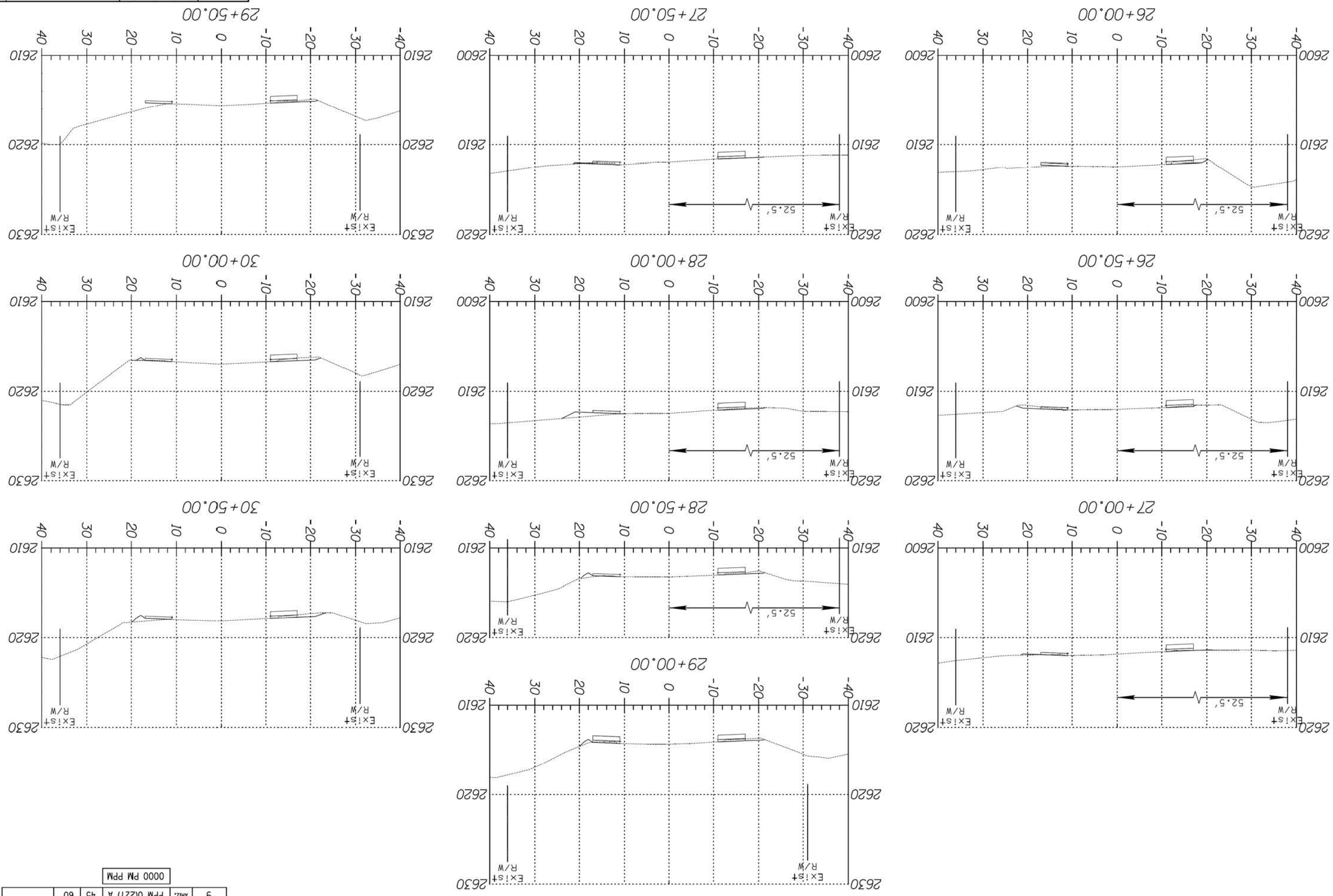
		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

Priscilla S. Cornelio, P.E., Director

F.A.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	
9	ARIZ.	PPM 0(227) A	44	60	AS BUILT

0000 PM PPM

5/14/2014 V:\2281TUCSCTIVE\167182826 - HARRISON ROAD\DESIGN\DGN\826-X02.DGN



SCALES: Horiz: 1" = 10' Vert: 1" = 5'

Sheet X3 of X18

Page 45 of 60

Pima County Department of Transportation

CROSS SECTIONS
STA 26+00 TO 30+50

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #1TEHBL
TRACS No: 0000 PM PPM SL699 OIC

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TUCSON, AZ 85711
PH: (520) 750-7474
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FOR INFORMATION ONLY

No.	Revision Description	Engineer	Date

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

Priscilla S. Cornelio, P.E., Director

F.A.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	ARIZ.	PPM 0(227) A	45	60
		0000 PM PPM		AS BUILT

5/14/2014 V:\2281116\CIVIL\6178826 - HARRISON ROAD\DESIGN\DGN\826-X03.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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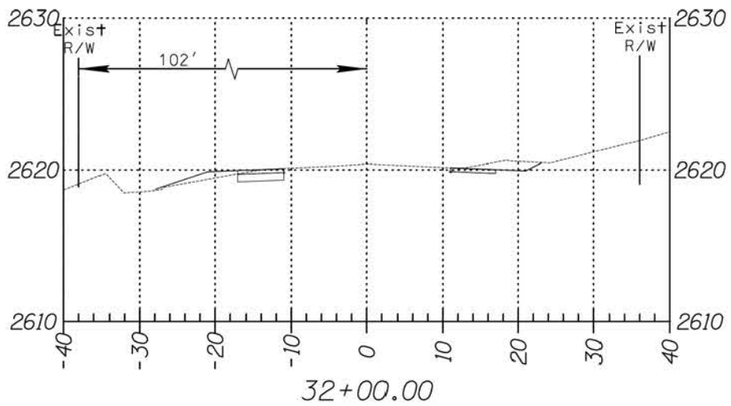
0000 PM PPM



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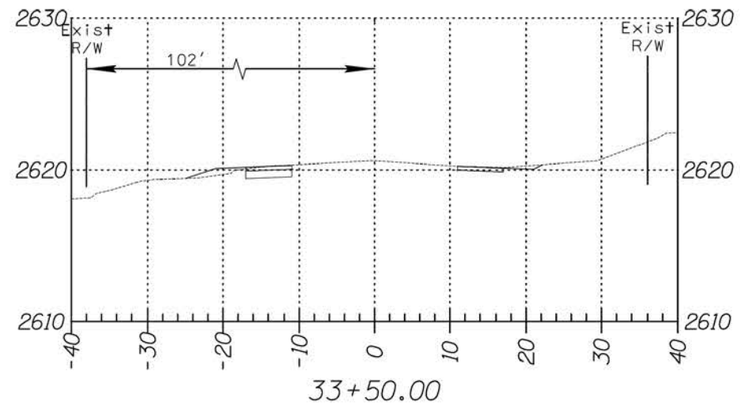

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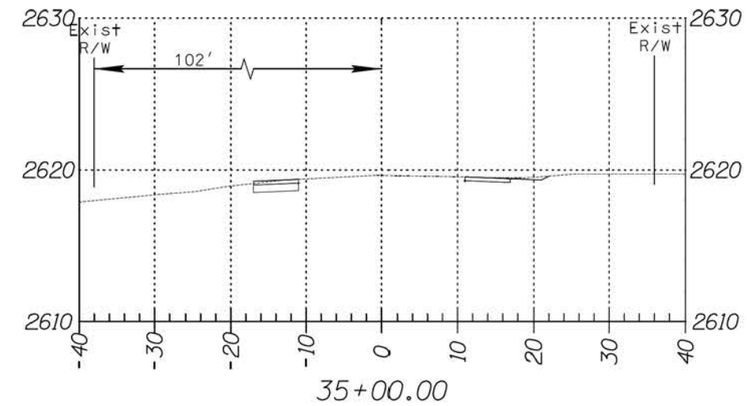

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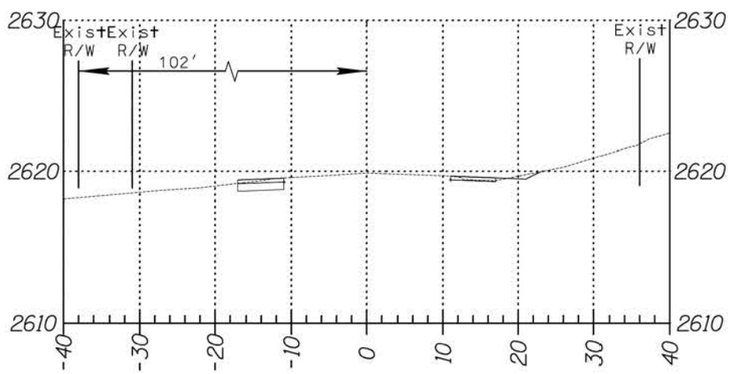

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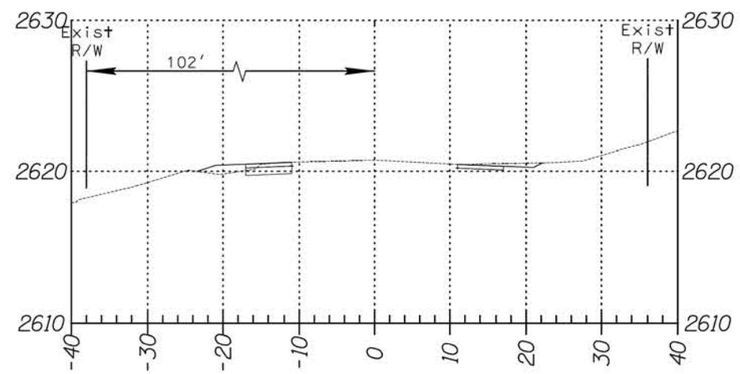

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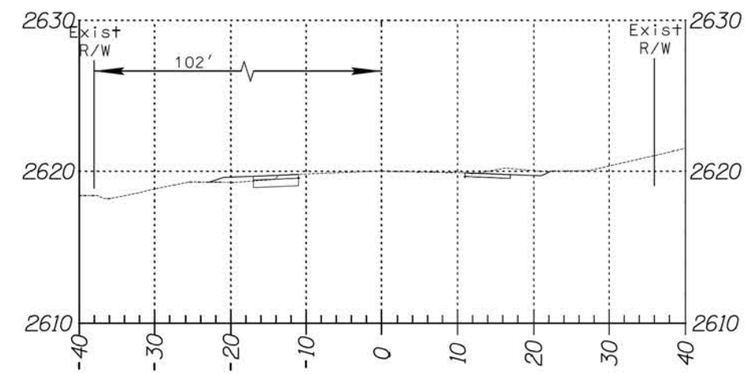

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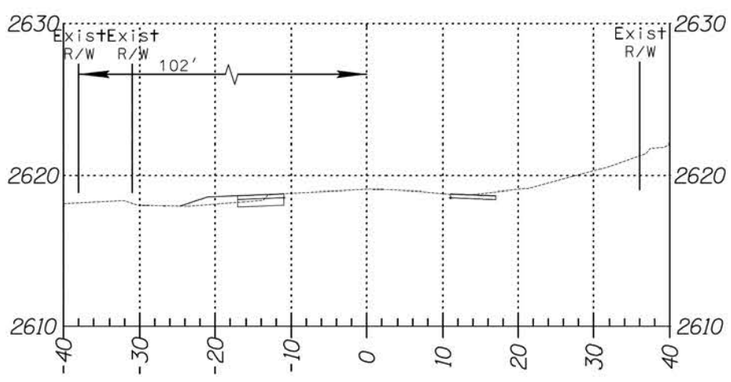

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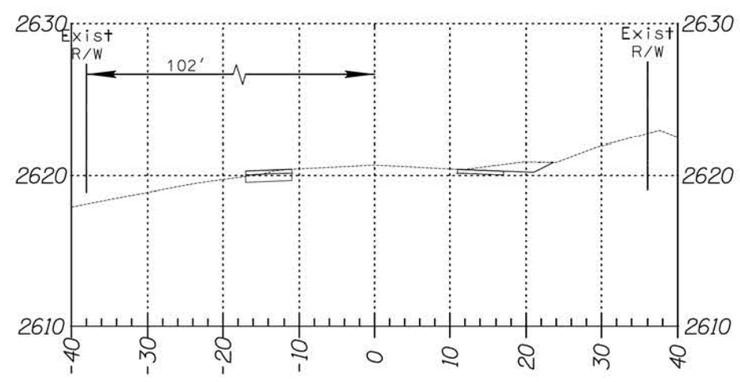

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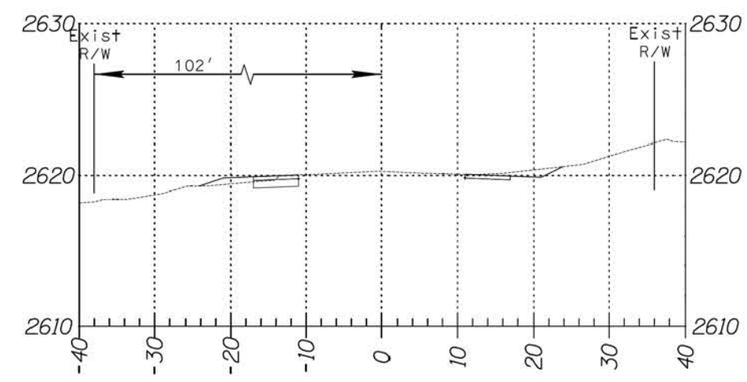

34+00.00

Priscilla S. Cornelio, P.E., Director

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

FOR INFORMATION ONLY

Stantec
5151 East Broadway Blvd. Suite 400
Tucson, AZ 85711
PH: [520] 750-7474
FAX: [520] 750-7470
www.stantec.com

Pima County Department of Transportation

CROSS SECTIONS
STA 31+00 TO 35+00
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 10' Vert: 1"= 5'

5/14/2014 V:\158317\civil\18171828 - HARRISON ROAD\SUBDIVISION\X026_X04.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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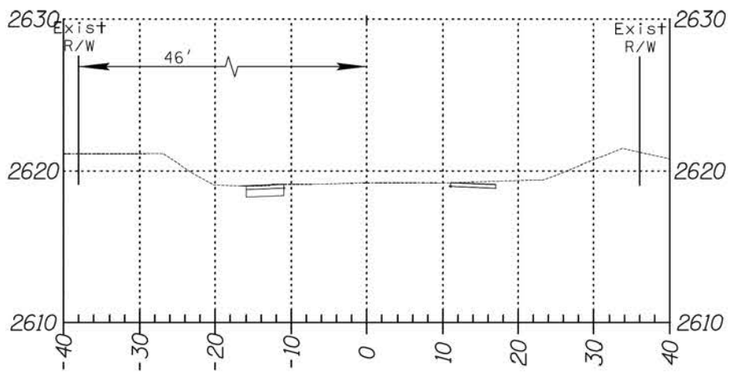
0000 PM PPM



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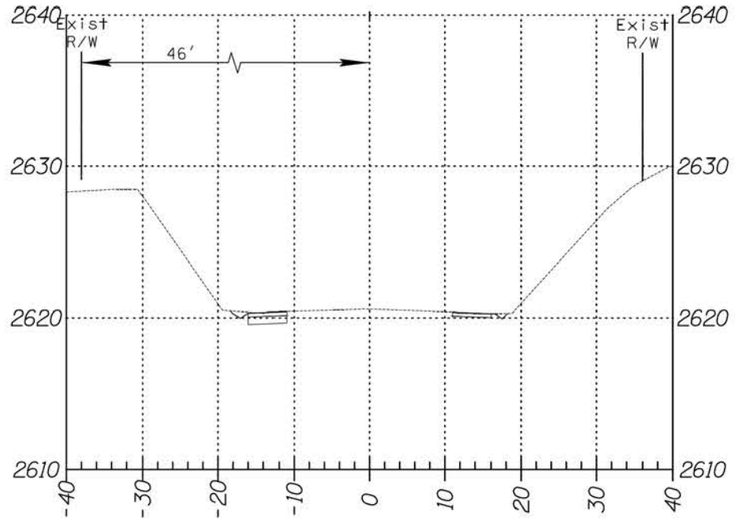

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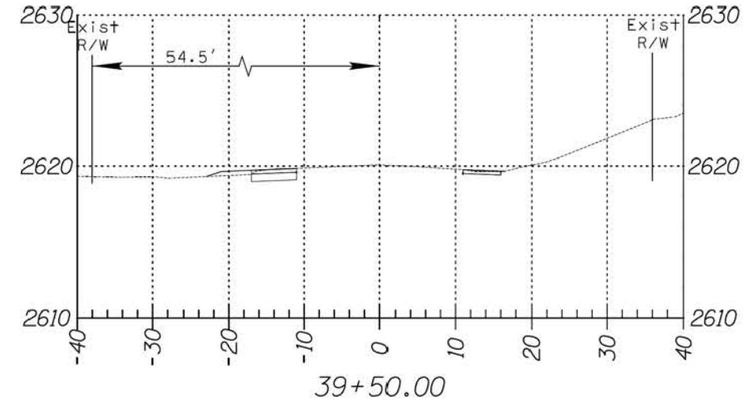

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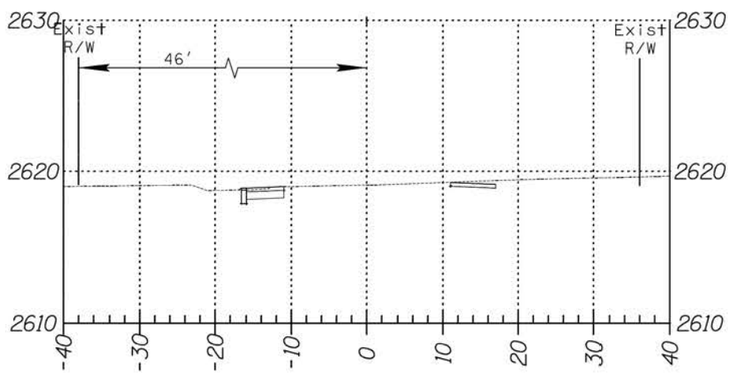

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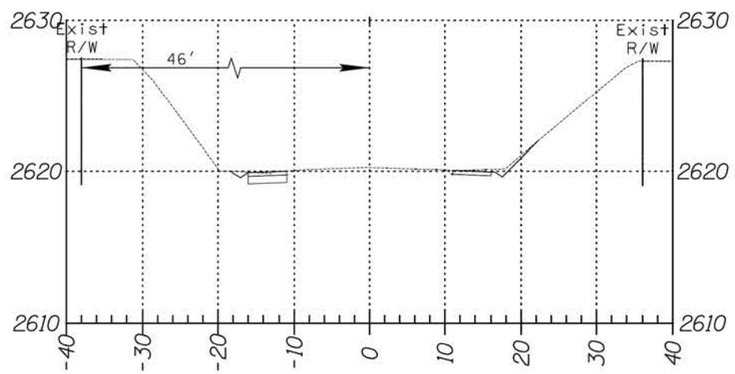

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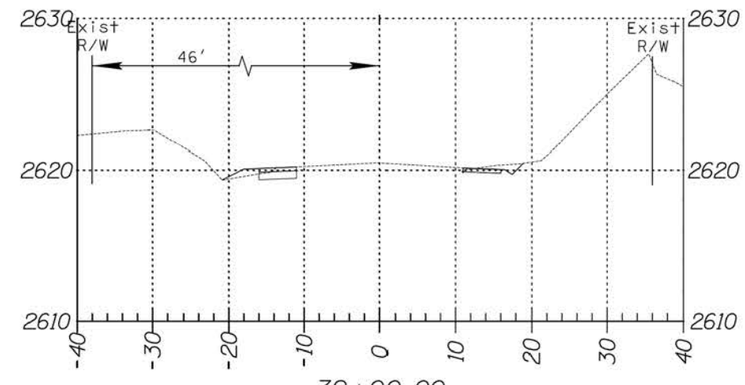

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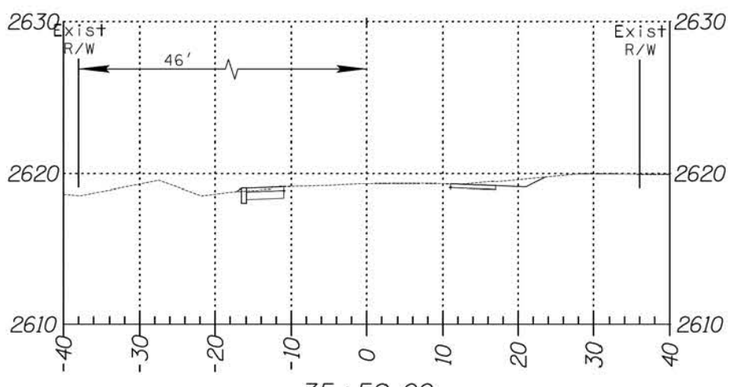

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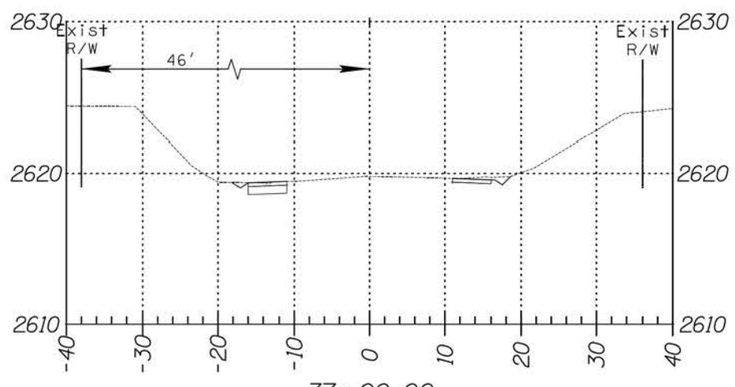

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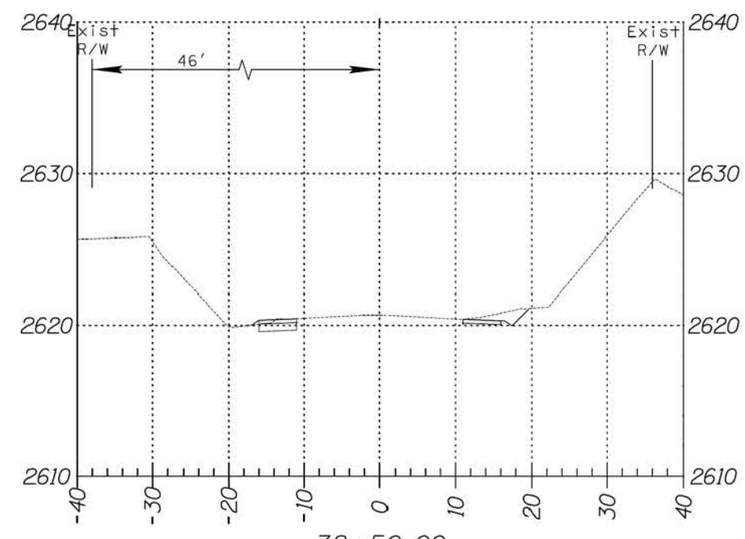

38+50.00

SCALES: Horiz: 1" = 10' Vert: 1"= 5'

Sheet X5 of X18

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

FOR INFORMATION ONLY

Stantec
5151 East Broadway Blvd. Suite 400
Tucson, AZ 85711
PH: [520] 750-7474
FAX: [520] 750-7470
www.stantec.com

Pima County Department of Transportation

CROSS SECTIONS
STA 35+50 TO 39+50

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

5/14/2014 V:\52831\VIC\1\181718826 - HARRISON ROAD\SECTION\CON\X26_X05-06.dgn

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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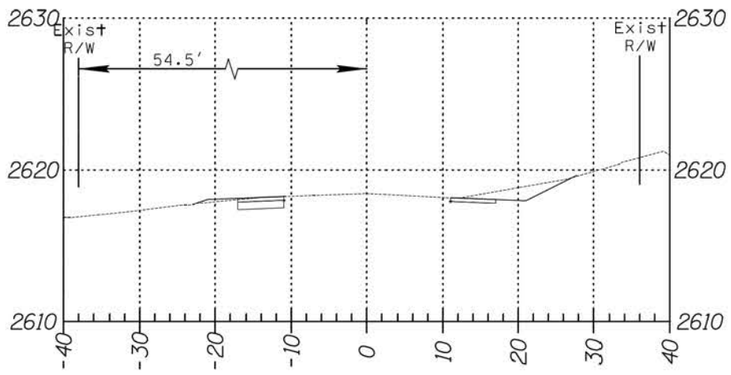
0000 PM PPM



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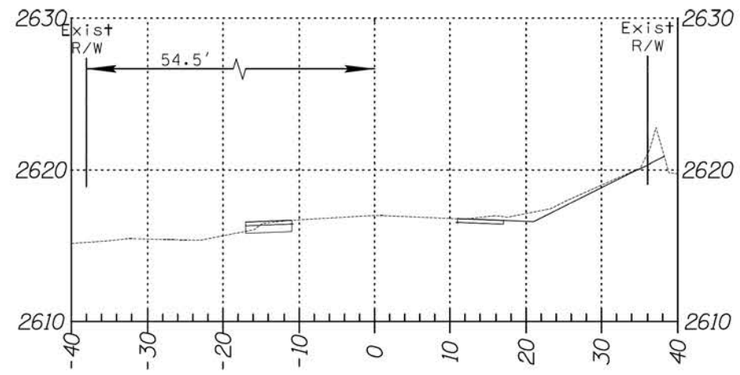

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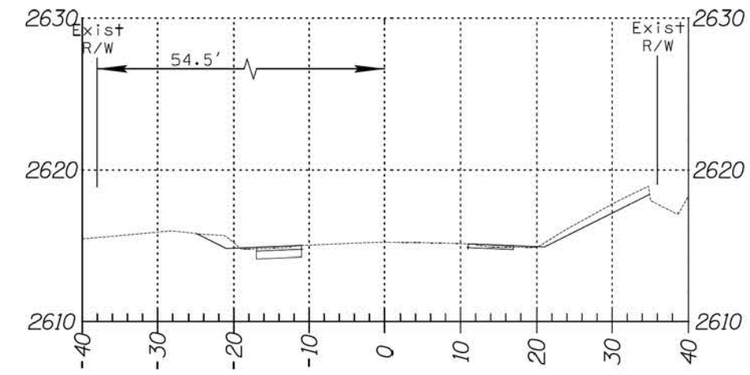

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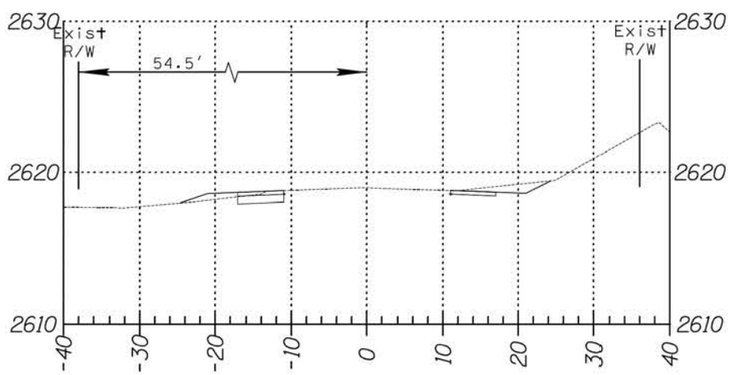

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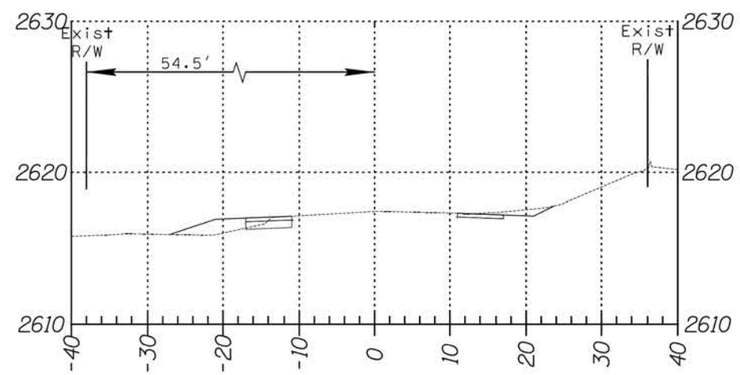

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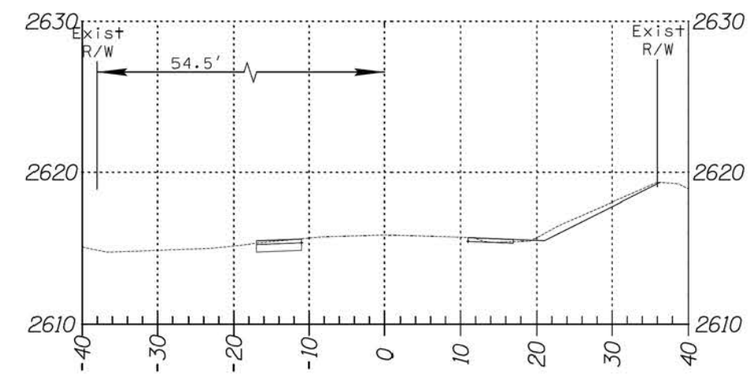

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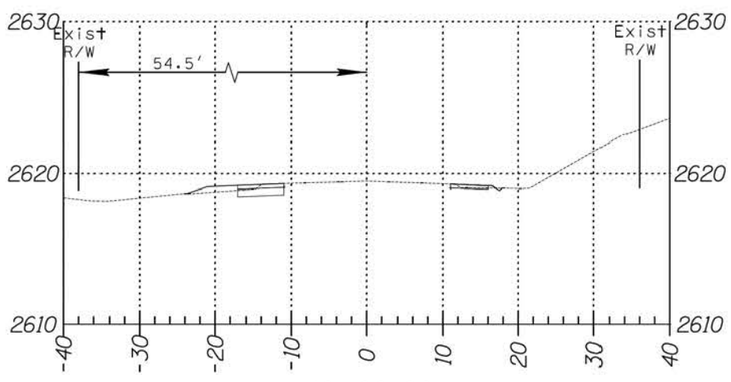

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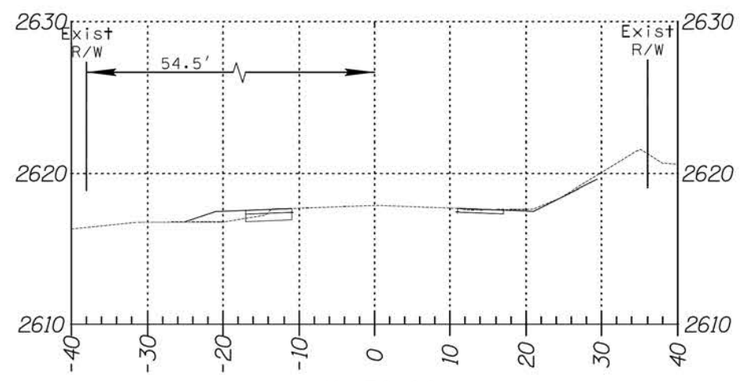

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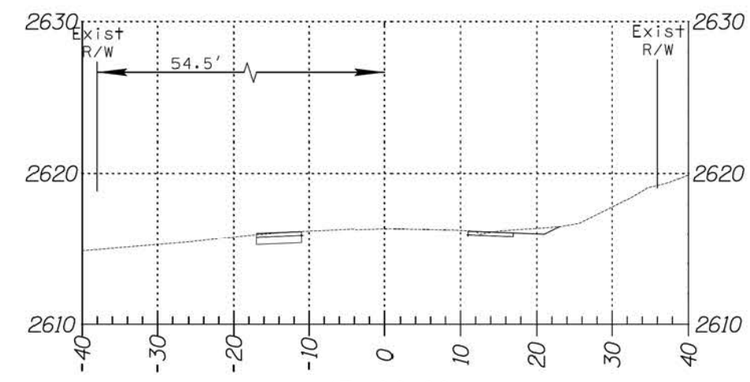


43+00.00

Priscilla S. Cornelio, P.E., Director

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

FOR INFORMATION ONLY

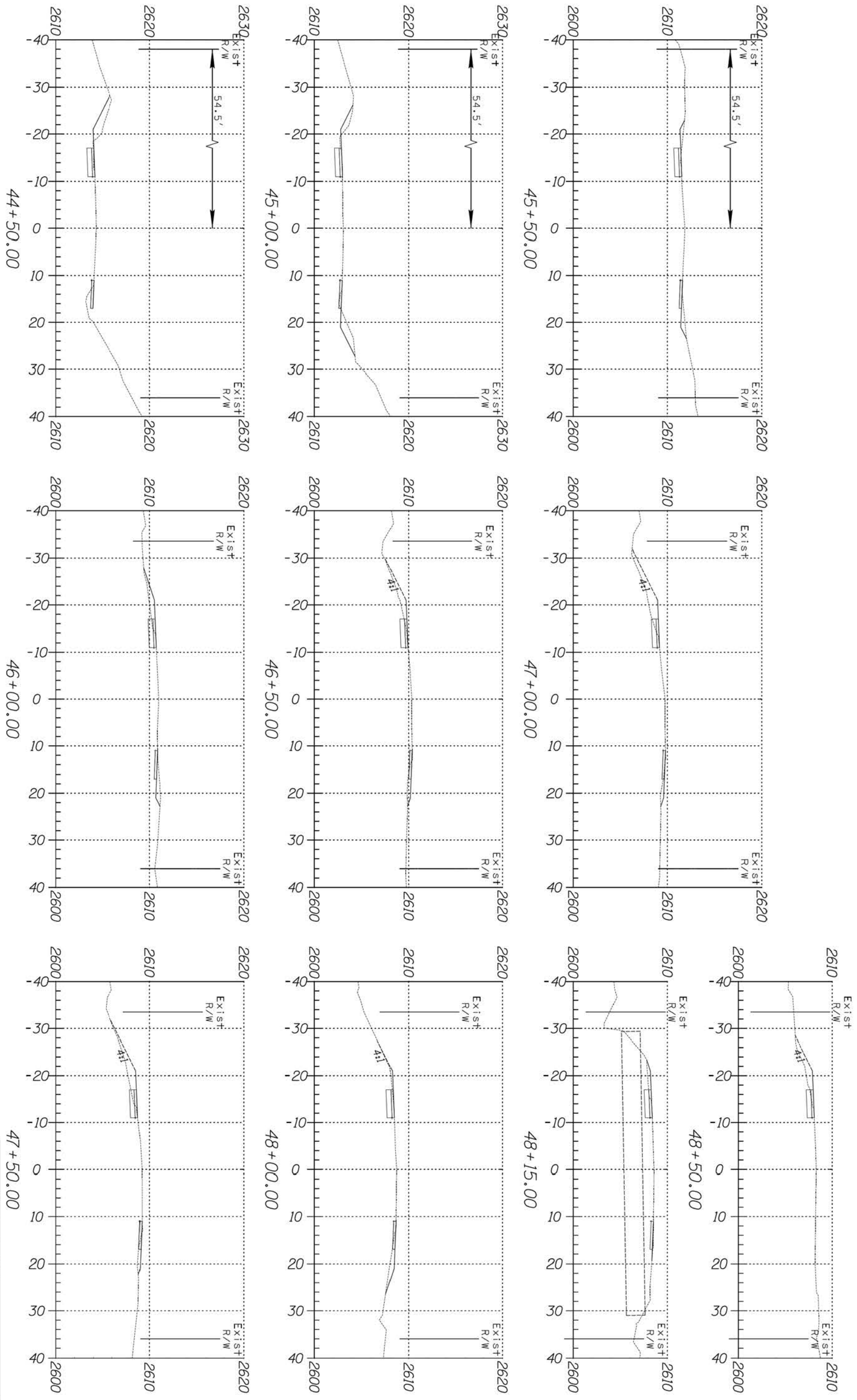
Stantec
5151 East Broadway Blvd. Suite 400
Tucson, AZ 85711
PH: [520] 750-7474
FAX: [520] 750-7470
www.stantec.com

Pima County Department of Transportation

CROSS SECTIONS
STA 40+00 TO 44+00
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 10' Vert: 1"= 5'

5/14/2014 V:\158317\CIVIL\181718826 - HARRISON ROAD\SUBDIVISION\X026_X06.DGN



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	49	60	

0000 PM PPM

SCALES: Horiz: 1" = 10' Vert: 1" = 5'

Sheet X7 of X18

Page 49 of 60

Pima County Department of Transportation

Priscilla S. Cornelio, P.E., Director

CROSS SECTIONS
STA 44+50 TO 48+50

SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

Stantec
5151 East Broadway Blvd. Suite 400
TUCSON, AZ 85711
PH: (520) 750-7474
FAX: (520) 750-7470
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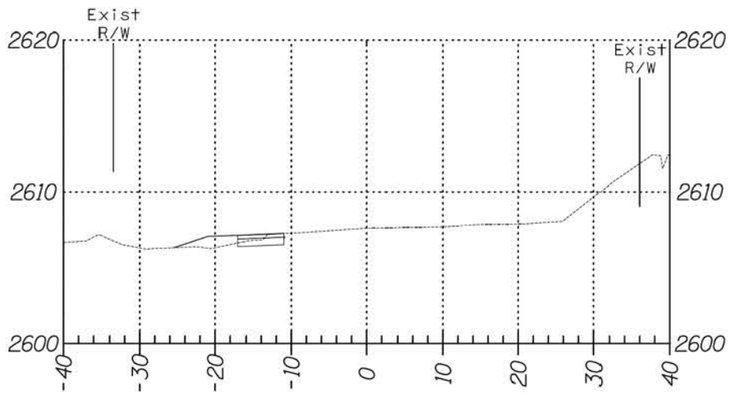
No.	Revision Description	Engineer	Date

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

5/14/2014 V:\52817T\ACTIVE\181710026 - HARRISON ROAD\DESIGN\DGN\026_X07.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	50	60	

0000 PM PPM



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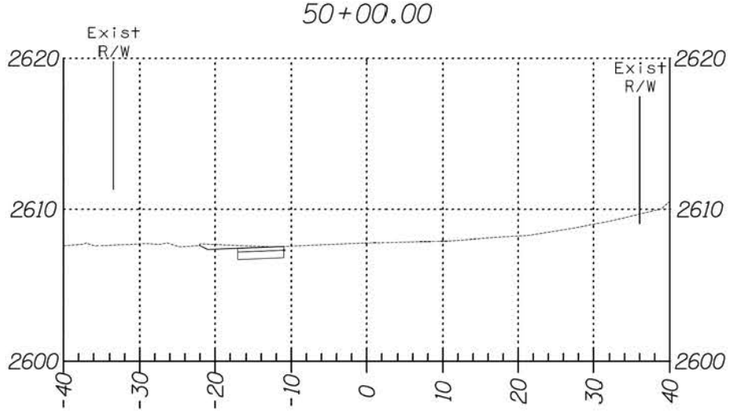

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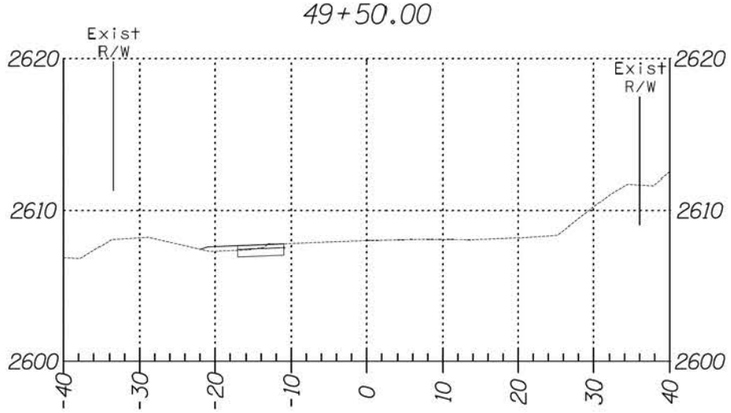

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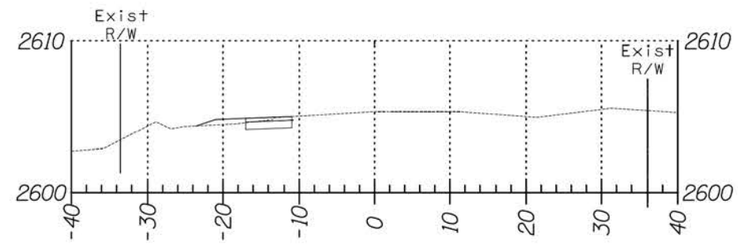

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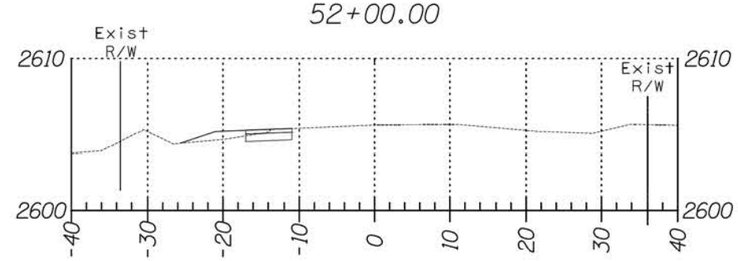

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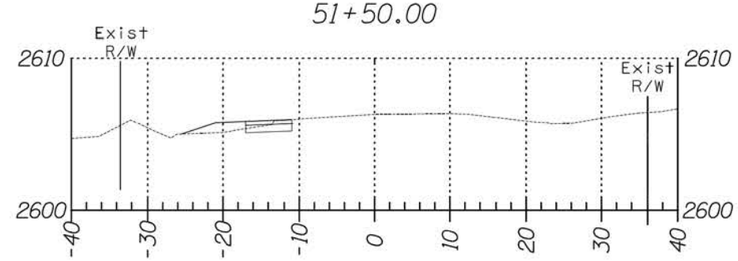

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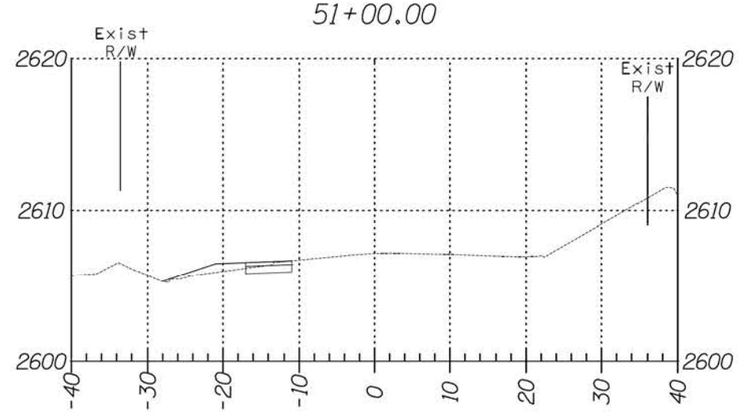

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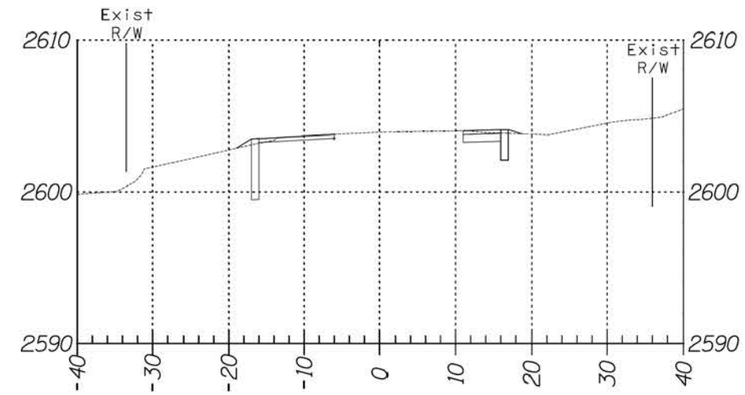

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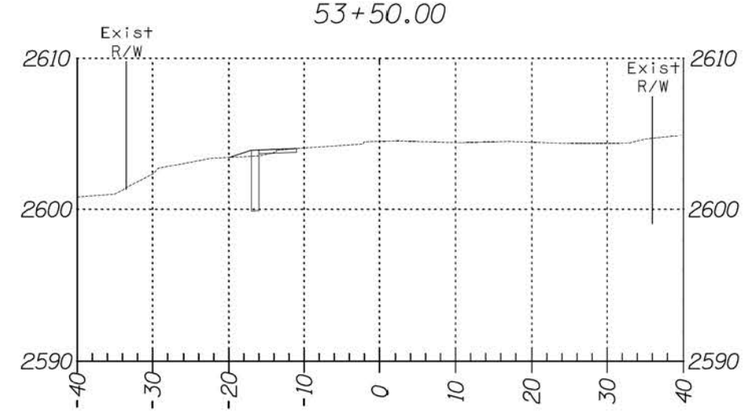

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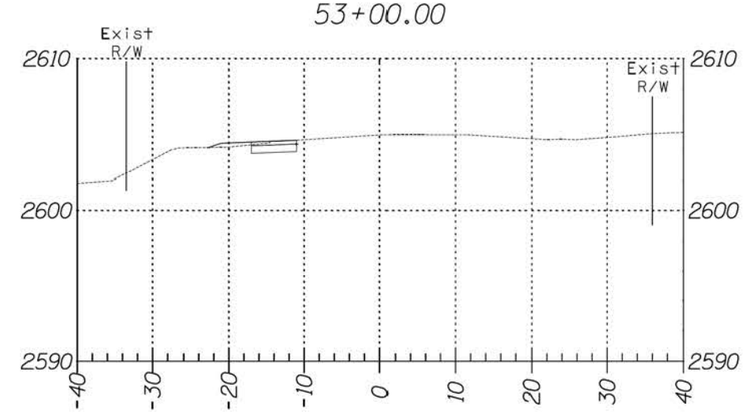

52+50.00

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

FOR INFORMATION ONLY

Stantec
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FAX: (520) 750-7470
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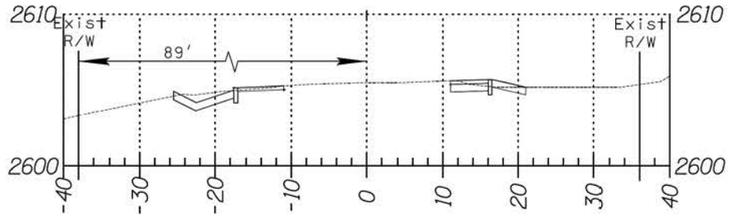
Pima County Department of Transportation

CROSS SECTIONS
STA 49+00 TO 53+50
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 10' Vert: 1"= 5'

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	51	60	

0000 PM PPM



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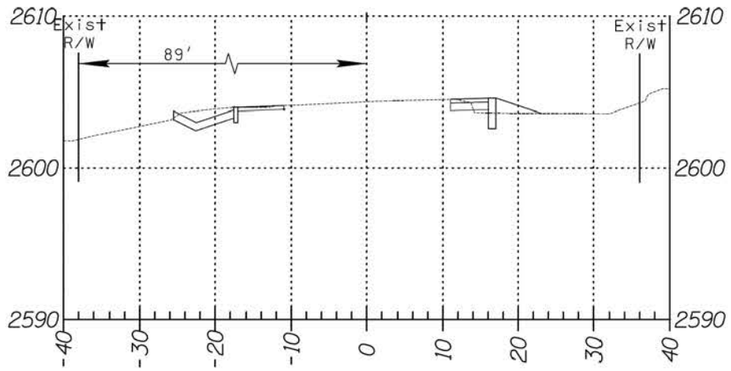

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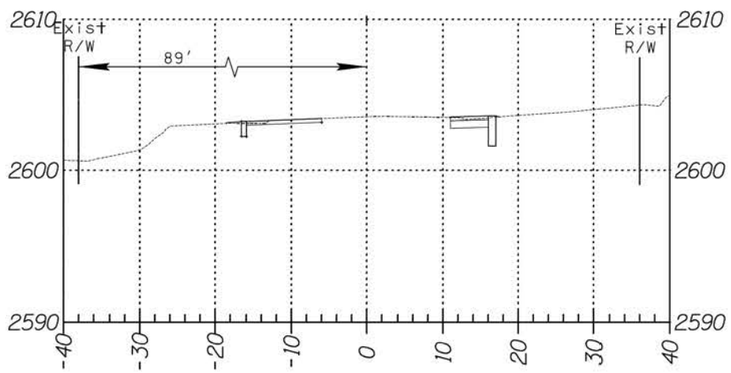

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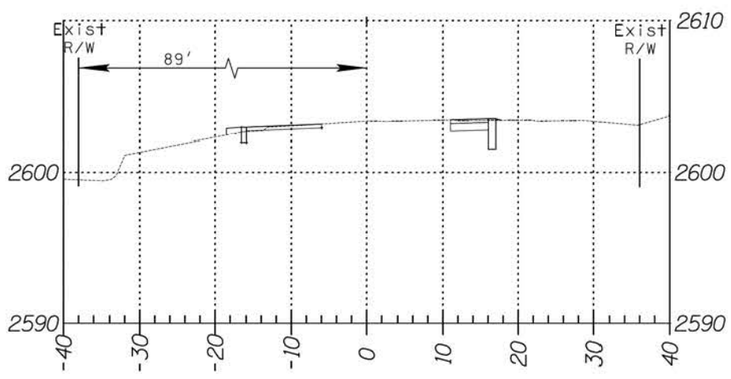

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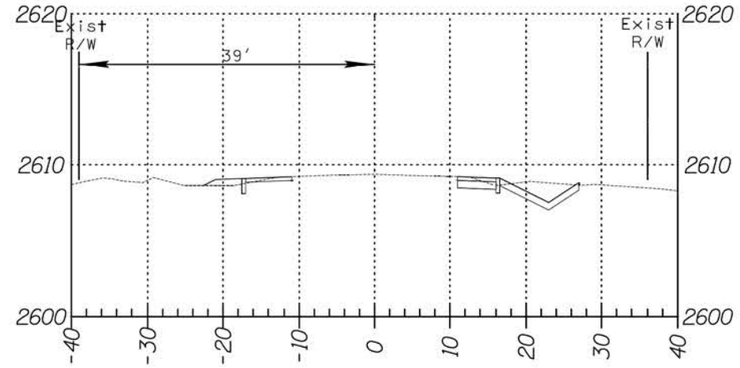

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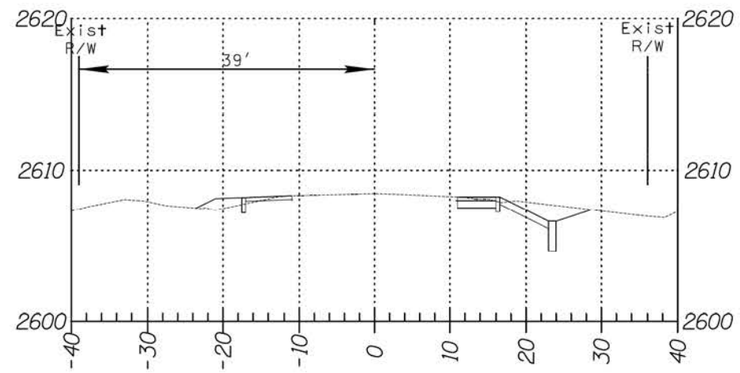

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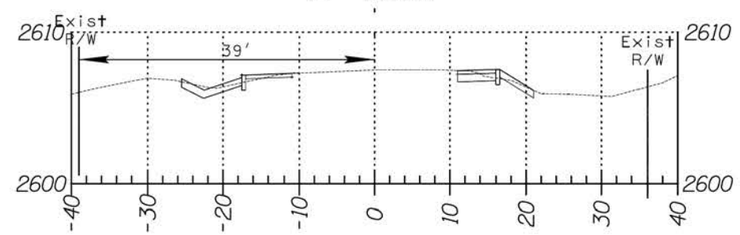

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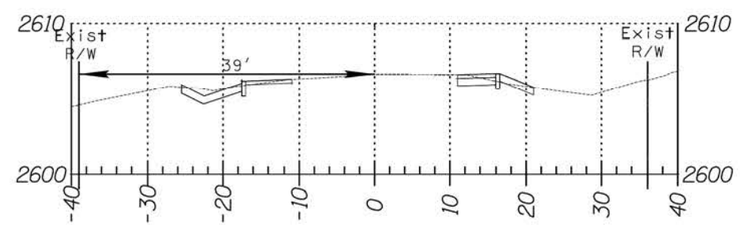

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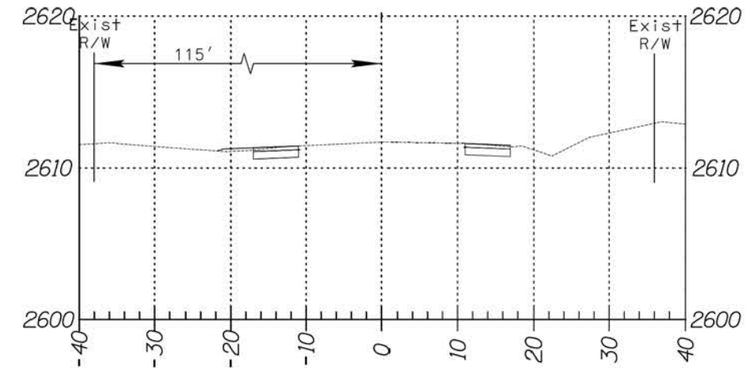

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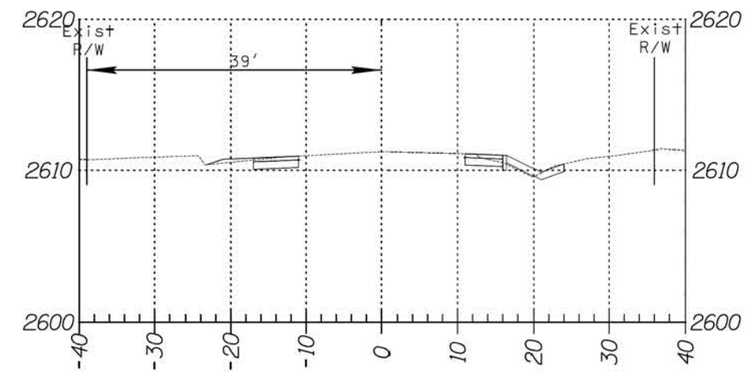

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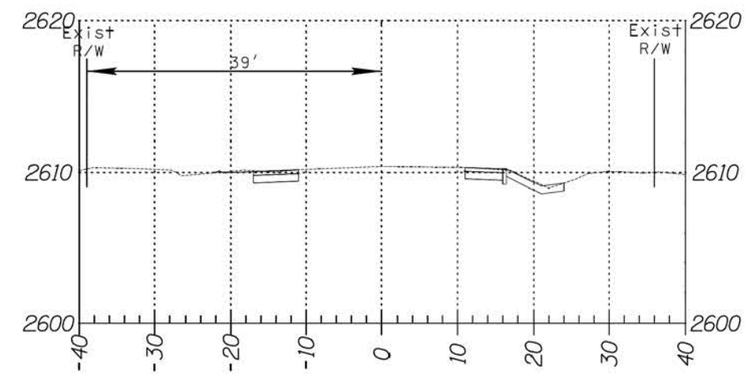

58+00.00

SCALES: Horiz: 1" = 10' Vert: 1"= 5'

Sheet X9 of X18

Priscilla S. Cornelio, P.E., Director

	Date
Designed J DANA	04/2014
Drawn J DANA	04/2014
Checked D MOSEKE	04/2014
Proj. Engr.	

No.	Revision Description	Engineer	Date

FOR INFORMATION ONLY

Stantec
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TUCSON, AZ 85711
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FAX: [520] 750-7470
www.stantec.com

Pima County Department of Transportation

CROSS SECTIONS
STA 54+00 TO 59+00
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

5/14/2014 V:\158317\CIVIL\181718026 - HARRISON ROAD\SUBDIVISION\026_XSPL.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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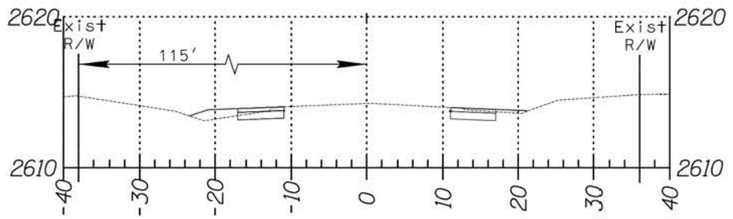
0000 PM PPM



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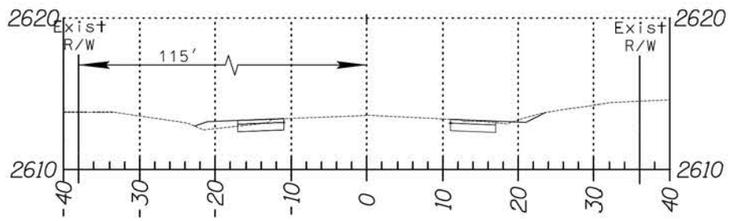

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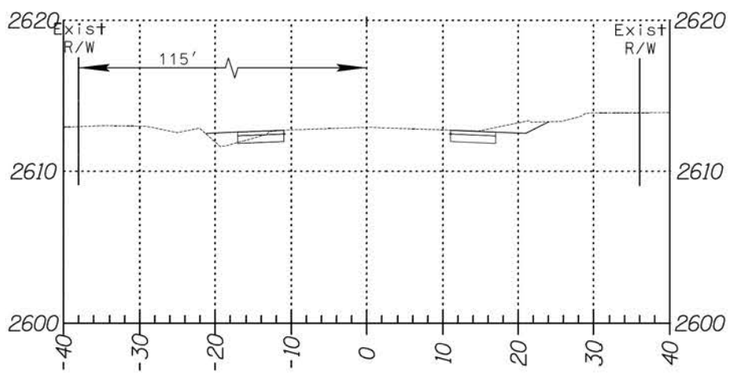

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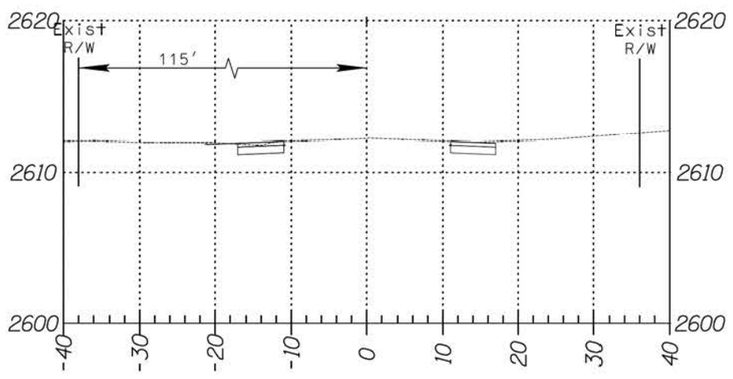

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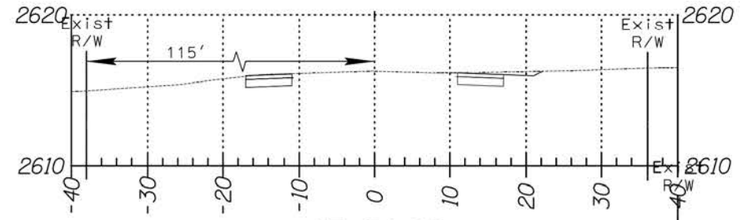

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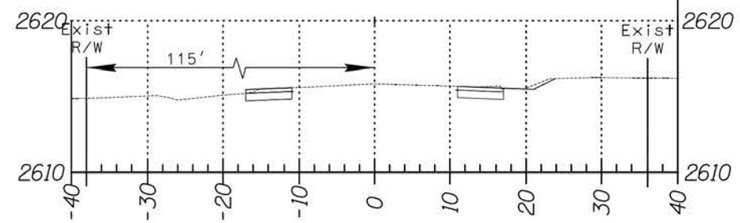

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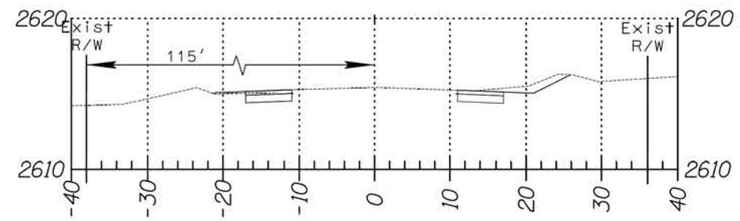

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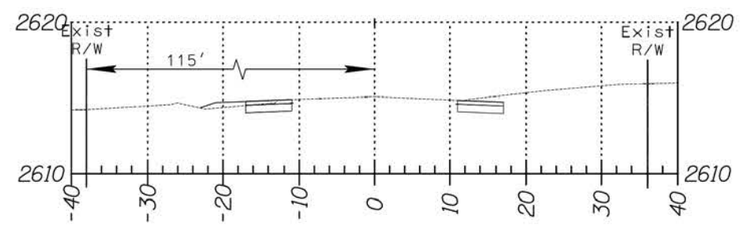

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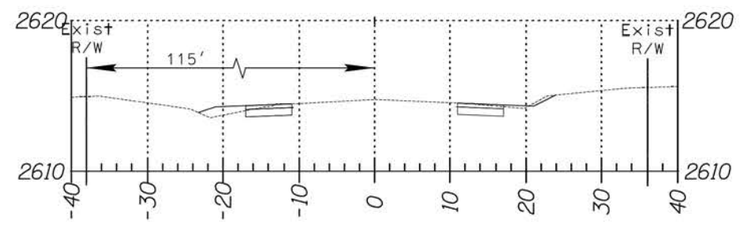

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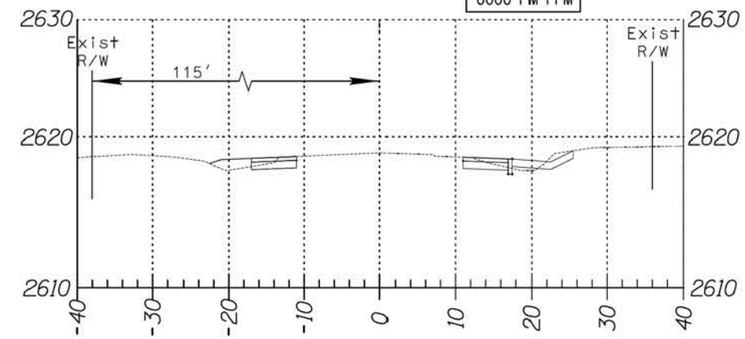

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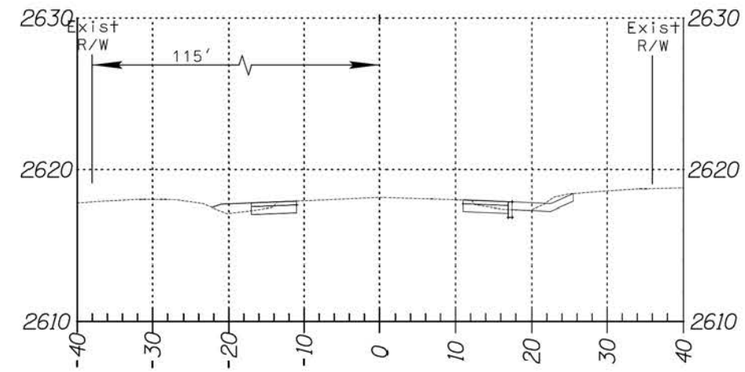

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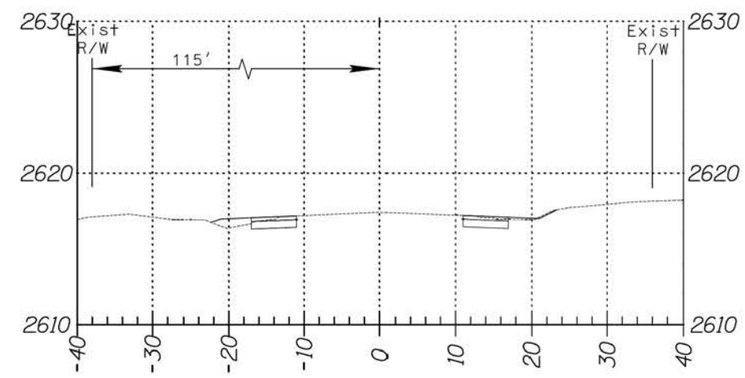

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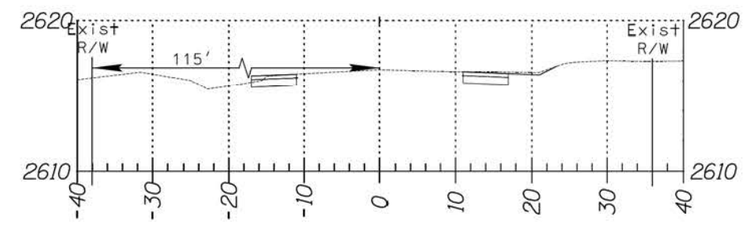

64+00.00

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

FOR INFORMATION ONLY

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Pima County Department of Transportation

CROSS SECTIONS
STA 59+50 TO 65+50
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 10' Vert: 1"= 5'

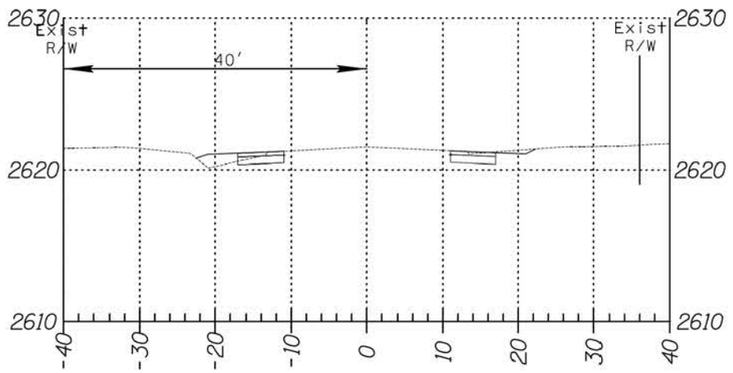
Sheet X10 of X18

Page 52 of 60

5/14/2014 V:\158317\civil\11\181718826 - HARRISON ROAD\SECTION\SDN\826_X10.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	53	60	

0000 PM PPM



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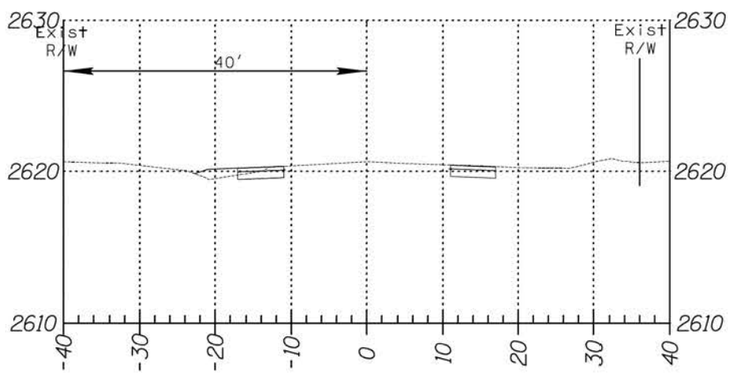

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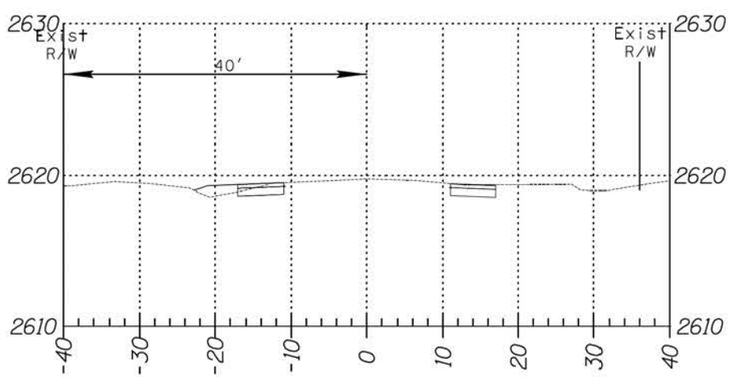
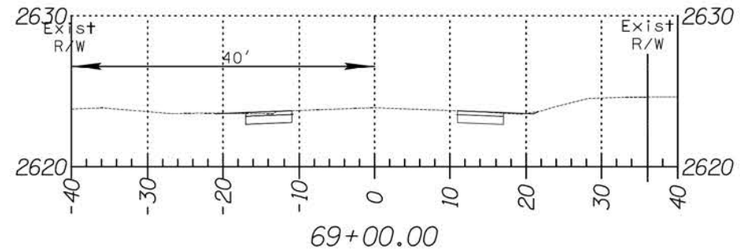
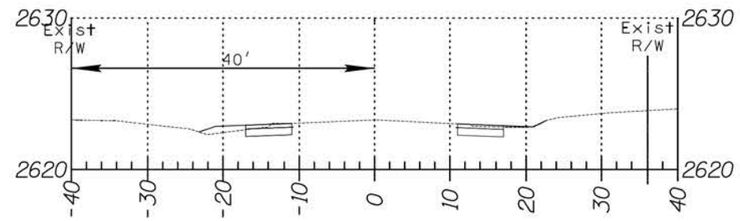


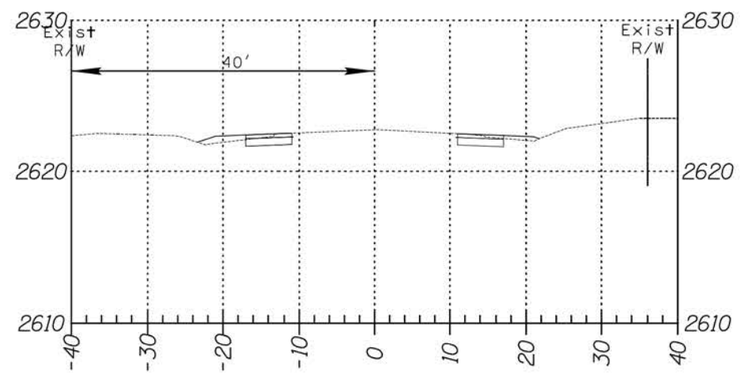
66+00.00



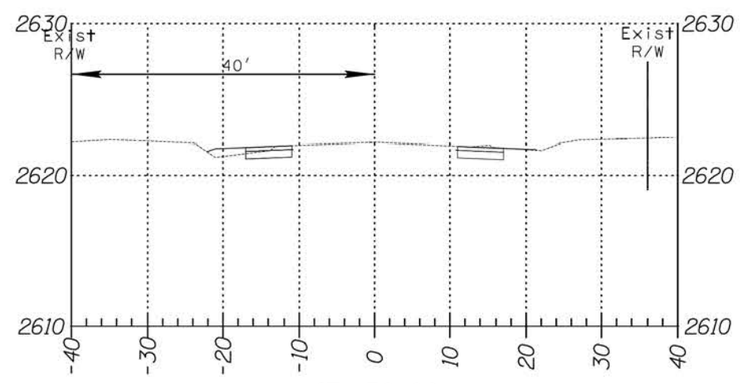
69+00.00



68+50.00



68+00.00



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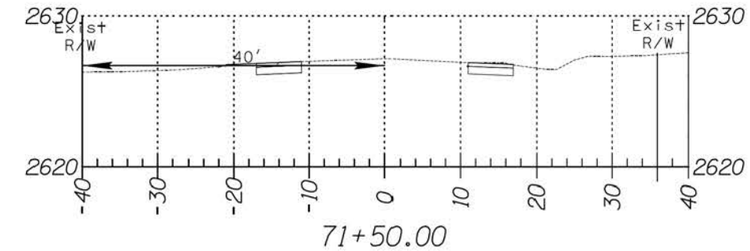
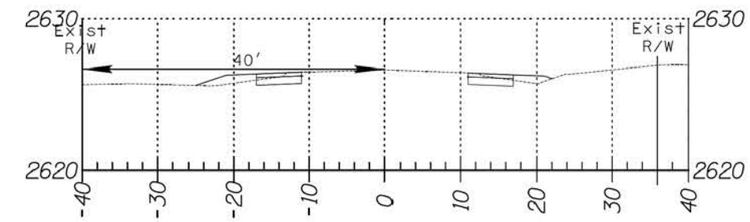
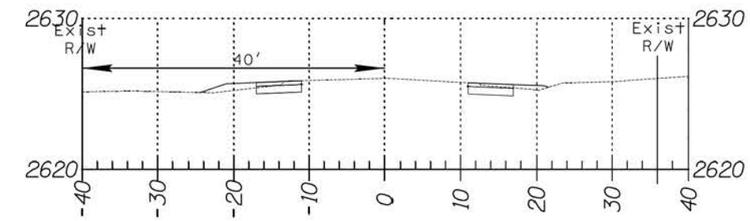


71+50.00



71+00.00



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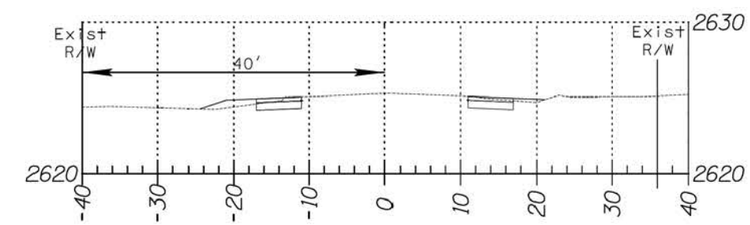
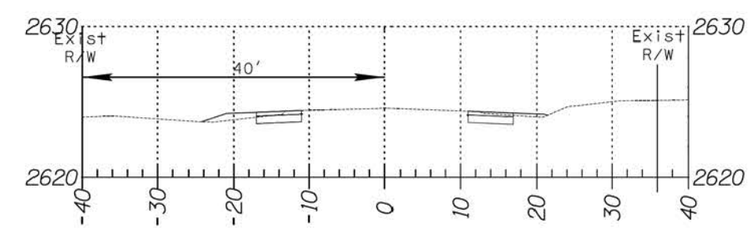


70+00.00



69+50.00

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

FOR INFORMATION ONLY

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TUCSON, AZ 85711
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FAX: [520] 750-7470
www.stantec.com

Pima County Department of Transportation

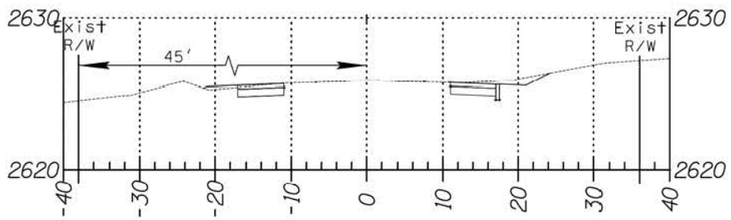
CROSS SECTIONS
STA 66+00 TO 71+50
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 10' Vert: 1"= 5'

5/14/2014 V:\158317\CIVIL\181718026 - HARRISON ROAD\SUBDIVISION\026_XII.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	54	60	

0000 PM PPM



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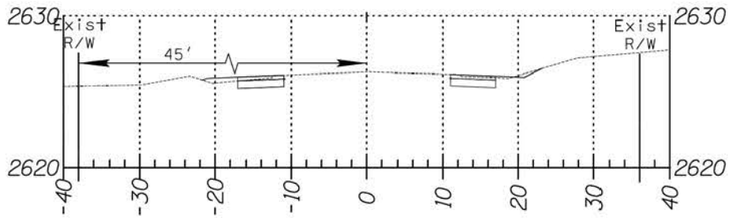
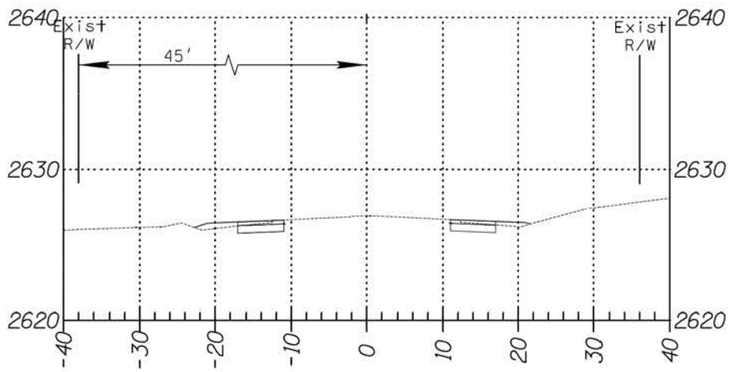


73+50.00



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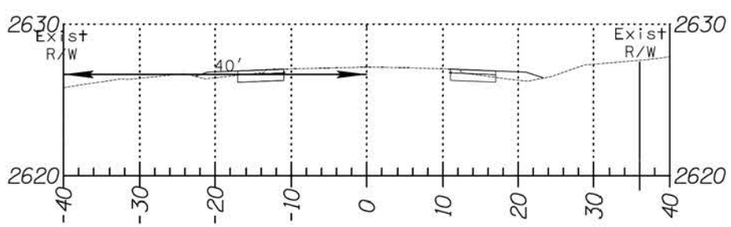
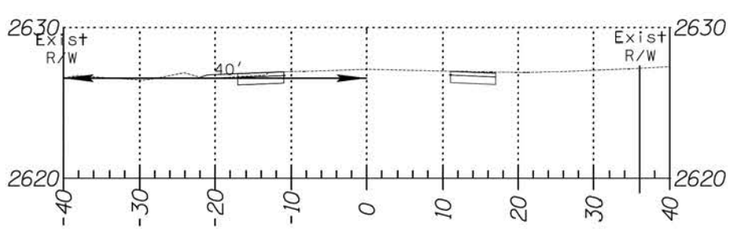
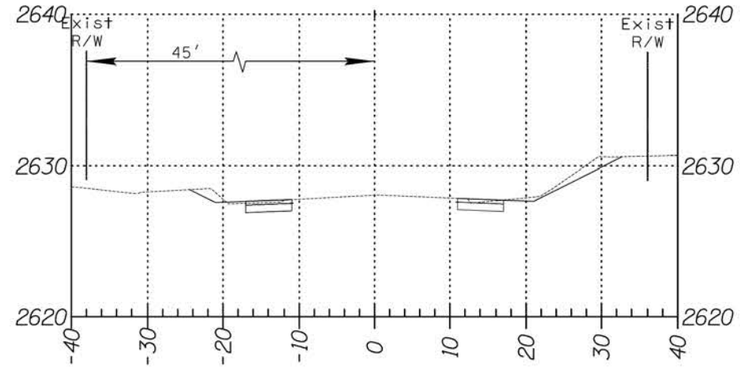


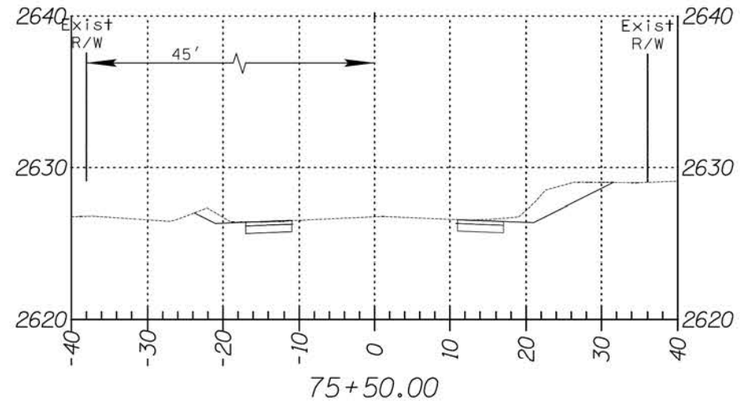
72+50.00



72+00.00



76+00.00



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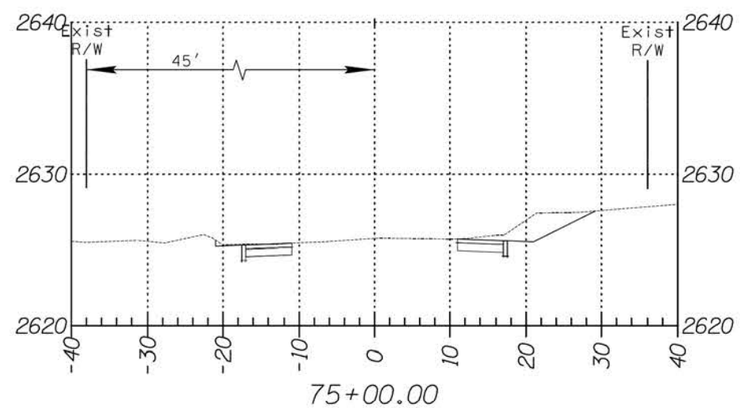
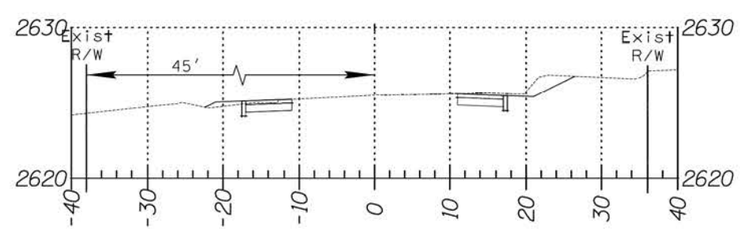
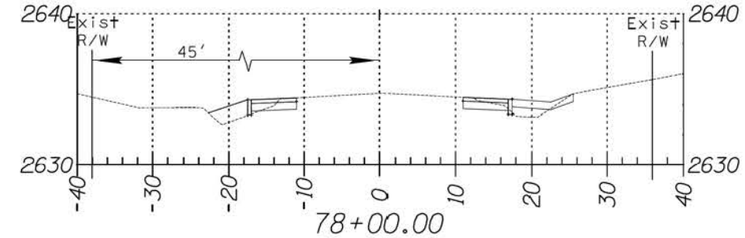


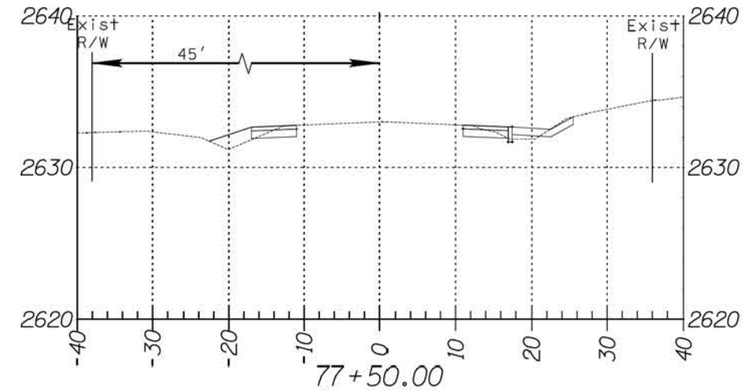
75+00.00



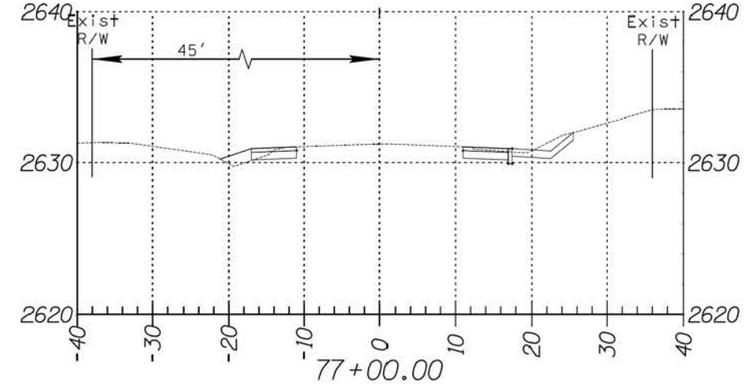
74+50.00



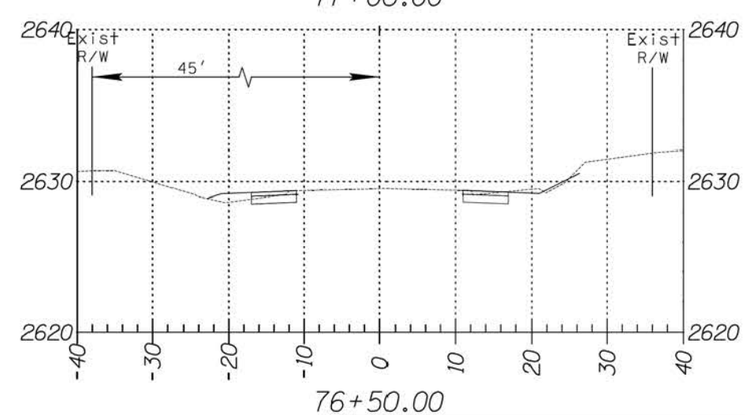
78+00.00



77+50.00



77+00.00



76+50.00

Priscilla S. Cornelio, P.E., Director

No.	Revision Description	Engineer	Date

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

FOR INFORMATION ONLY

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www.stantec.com

Pima County Department of Transportation

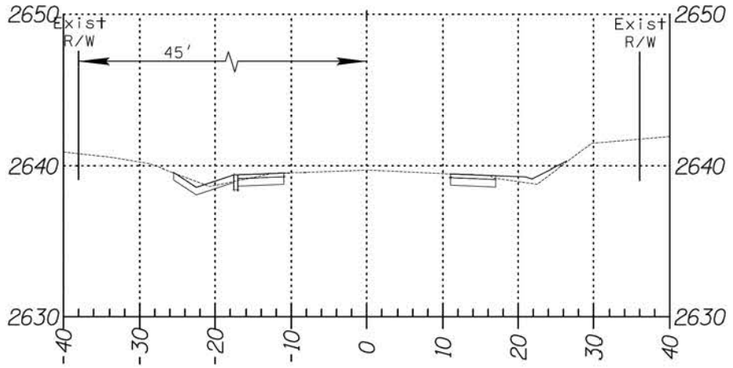
CROSS SECTIONS
STA 72+00 TO 78+00
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 10' Vert: 1"= 5'

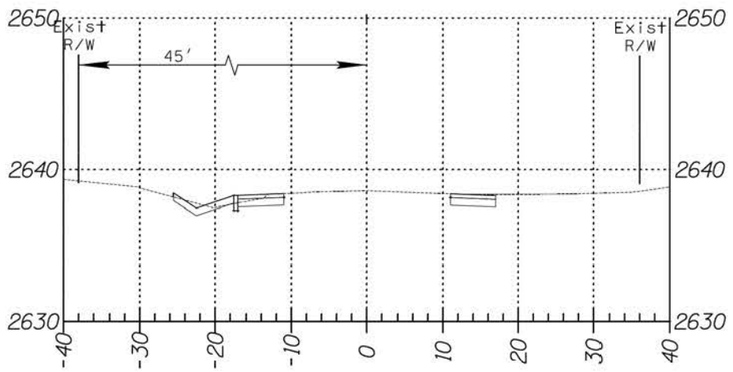
5/14/2014 V:\32817\VAC\11\61181728026 - HARRISON ROAD\DESIGN\DGN\026-X12.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	55	60	

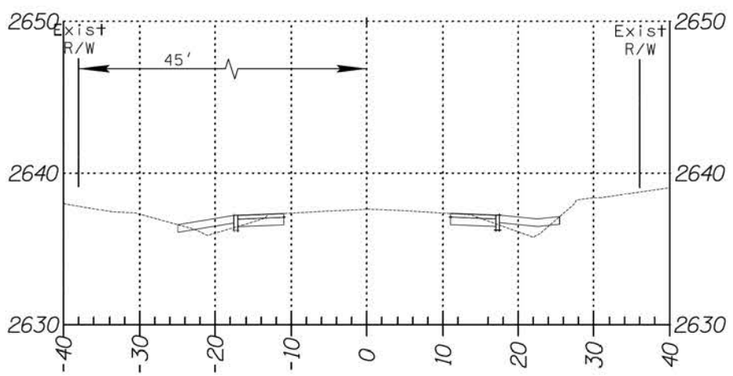
0000 PM PPM



80+00.00



79+50.00



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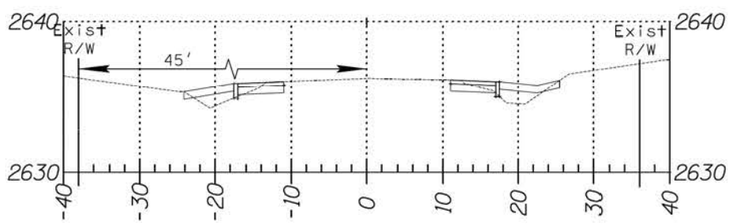
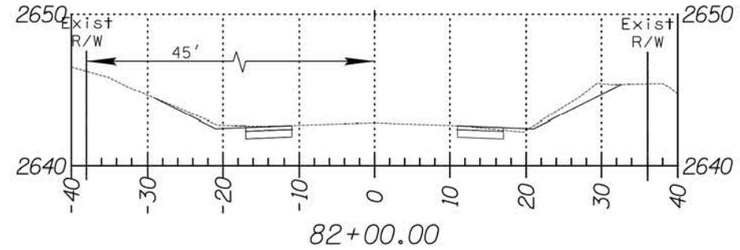


78+50.00



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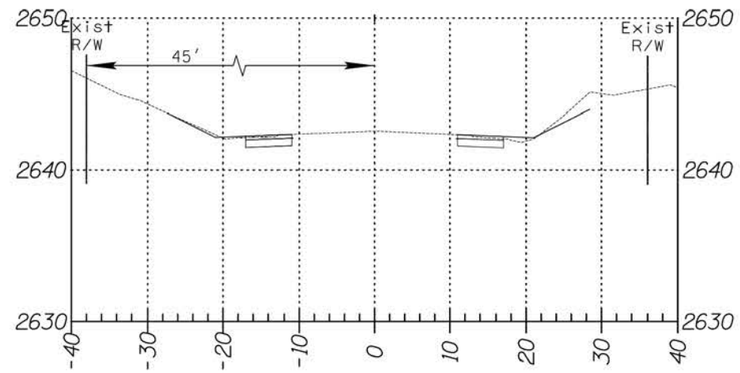
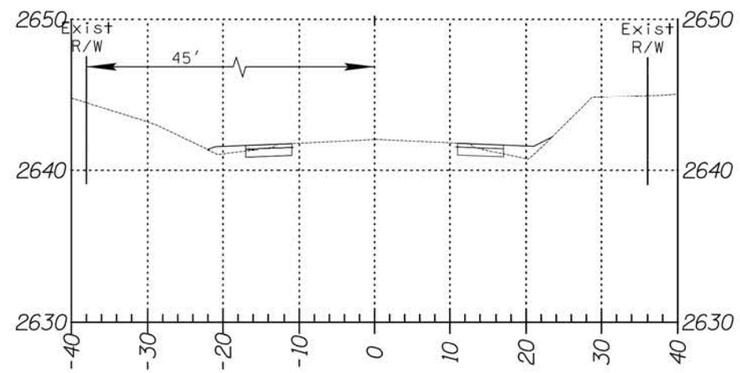
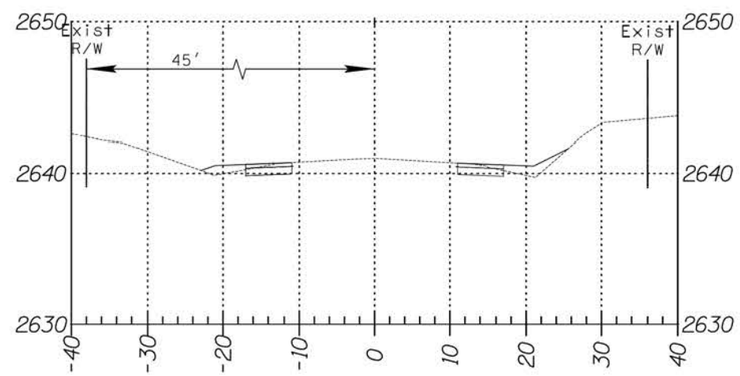


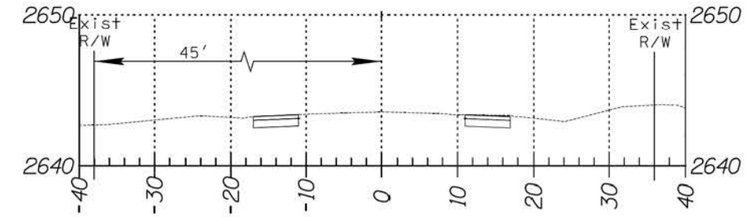
81+50.00



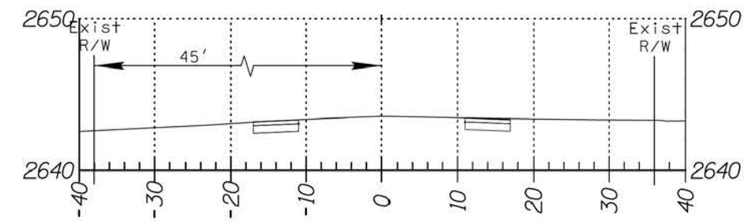
81+00.00



80+50.00



84+50.00



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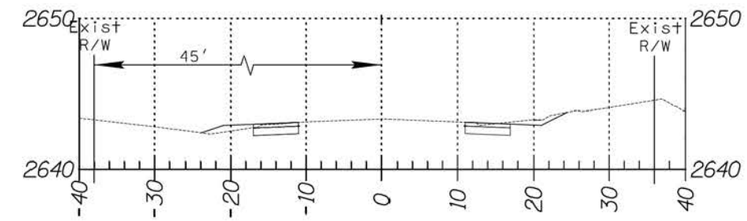
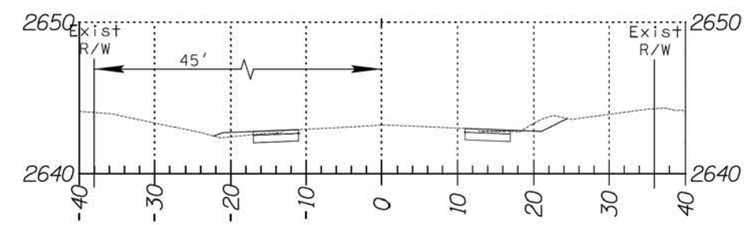
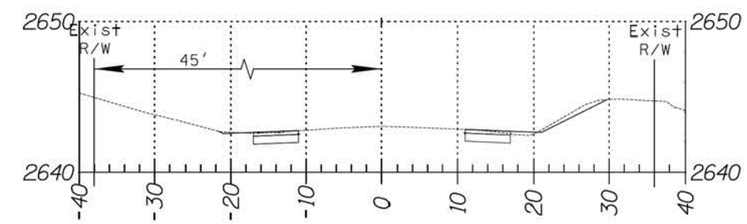


83+50.00



83+00.00



82+50.00

Priscilla S. Cornelio, P.E., Director

Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

FOR INFORMATION ONLY

Stantec
5151 East Broadway Blvd. Suite 400
Tucson, AZ 85711
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FAX: [520] 750-7470
www.stantec.com

Pima County Department of Transportation

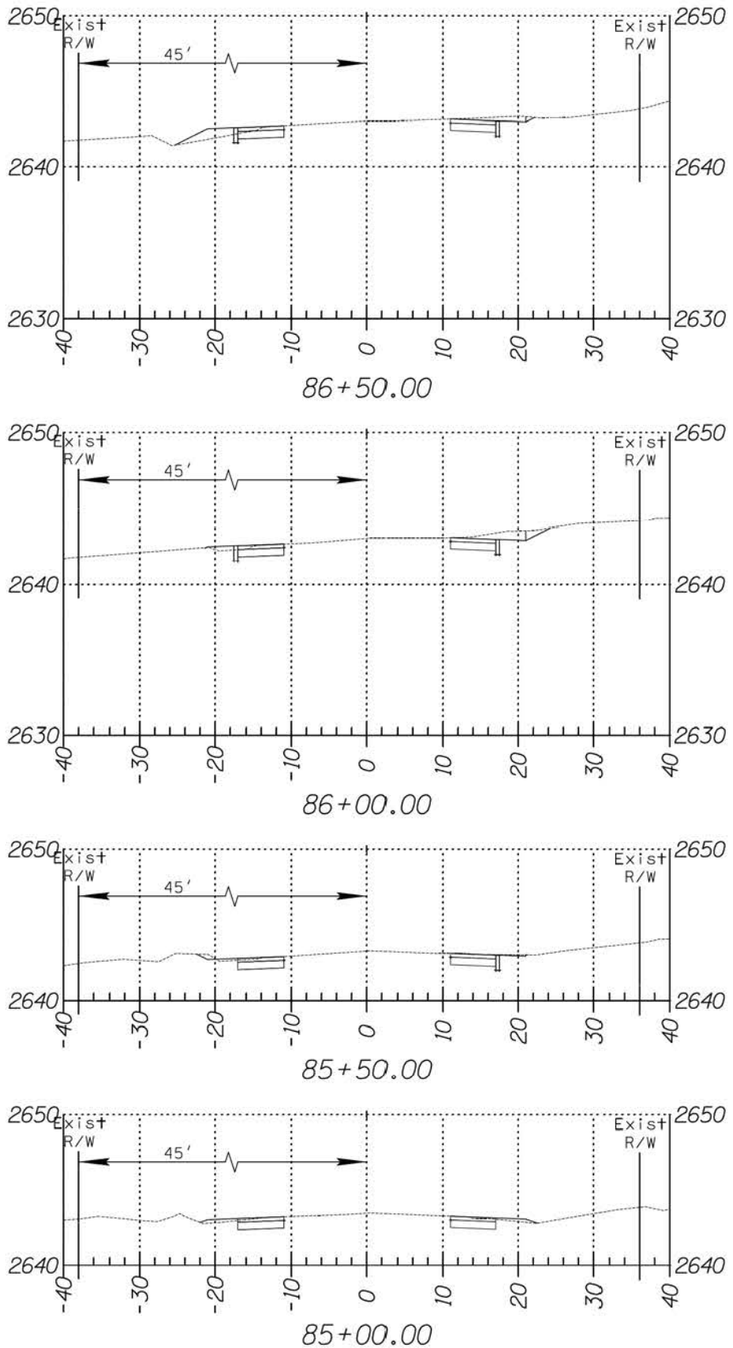
CROSS SECTIONS
STA 78+50 TO 84+50
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

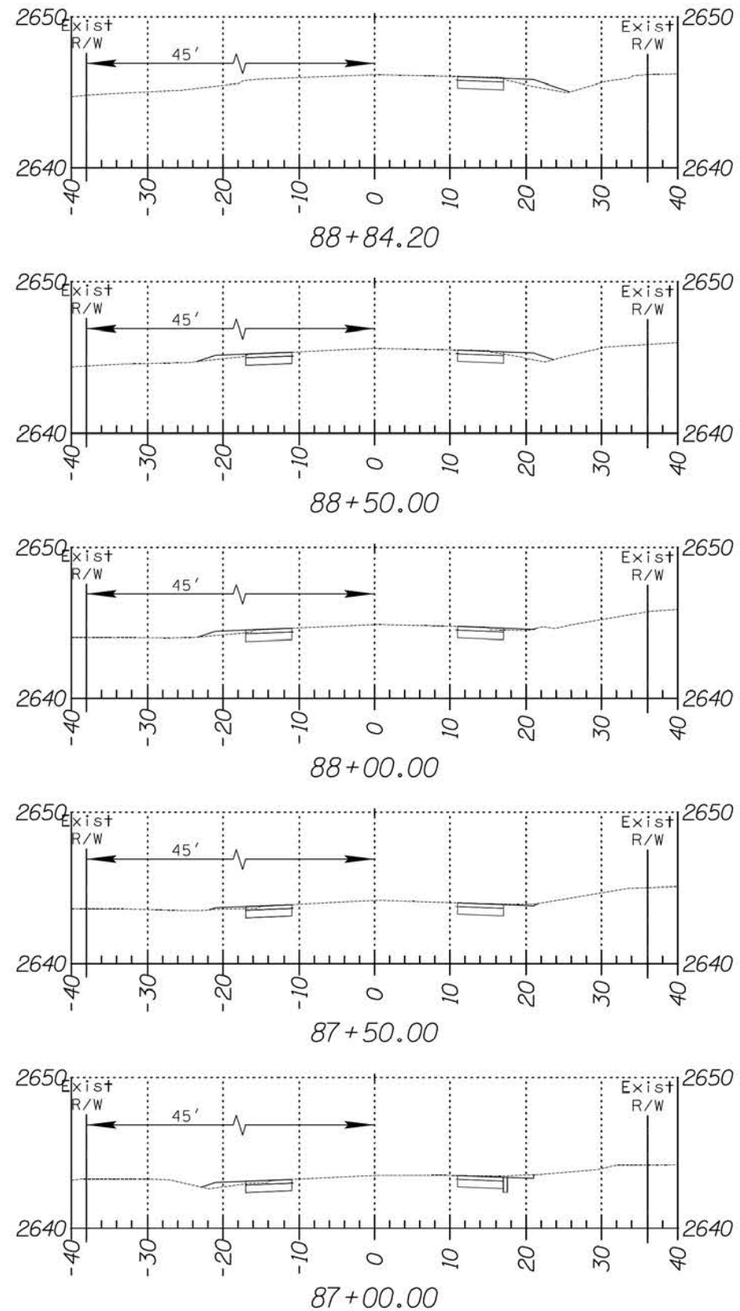
SCALES: Horiz: 1" = 10' Vert: 1"= 5'

5/14/2014 V:\158317\CIVIL\181718026 - HARRISON ROAD\SUBSTION\DGN\026_X13.DGN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	56	60	

0000 PM PPM





Note:
From Sta 88+50 to Sta 96+50 no structural modifications to the existing pavement will be completed as part of this project. The cross sections spanning this distance will not be included in this plan set.

Priscilla S. Cornelio, P.E., Director

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

FOR INFORMATION ONLY

Stantec
5151 East Broadway Blvd. Suite 400
Tucson, AZ 85711
PH: [520] 750-7474
FAX: [520] 750-7470
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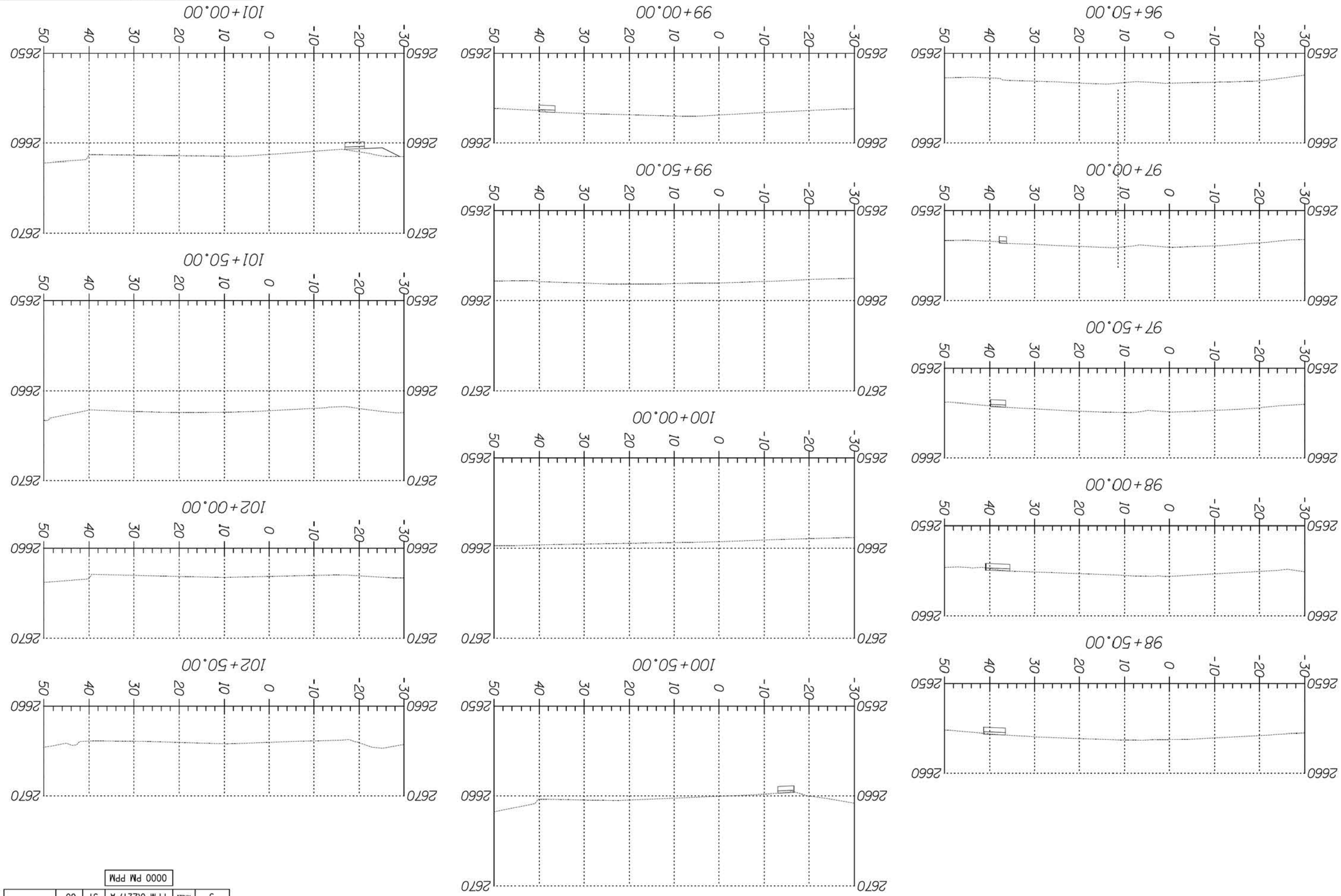
Pima County Department of Transportation

CROSS SECTIONS
STA 85+50 TO 88+84.2
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 10' Vert: 1"= 5'

5/14/2014 V:\328171\AC\LIVE\181718026 - HARRISON ROAD\DESIGN\DGN\026-X14.DGN



SCALES:	Horiz: 1" = 10' Vert: 1" = 5'	Sheet XI5 of XI8	Page 57 of 60

Pima County Department of Transportation

CROSS SECTIONS
STA 96+50 TO 102+50
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #1TEHBL
TRACS No: 0000 PM PPM SL699 OIC

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TUCSON, AZ 85711
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FOR INFORMATION ONLY

No.	Revision Description	Engineer	Date

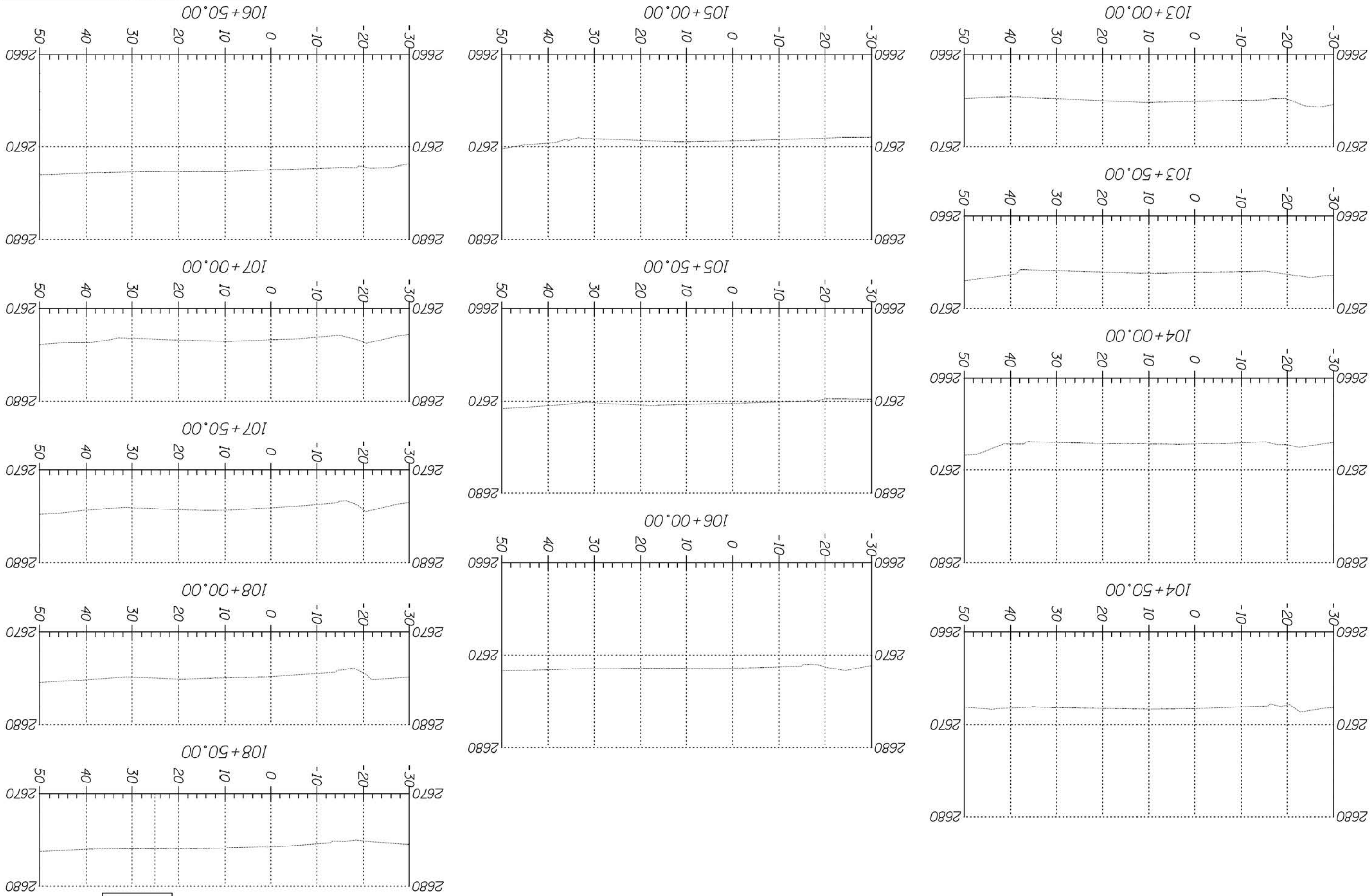
		Date
Designed	J. DANA	04/2014
Drawn	J. DANA	04/2014
Checked	D. MOSEKE	04/2014
Proj. Engr.		

Priscilla S. Cornelio, P.E., Director

F.A.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	
9	ARIZ.	PPM 0(227) A	57	60	AS BUILT

0000 PM PPM

5/14/2014 V:\2281TYSCHIVE\167182826 - HARRISON ROAD\DESIGN\DGN\826-X15.DGN



SCALES: Horiz: 1" = 10' Vert: 1" = 5'

Sheet X16 of X18

Page 58 of 60

Pima County Department of Transportation

CROSS SECTIONS
STA 103+00 TO 108+50
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #1TEHBL
TRACS No: 0000 PM PPM SL699 OIC

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FAX: (520) 750-7470
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FOR INFORMATION ONLY

No.	Revision Description	Engineer	Date

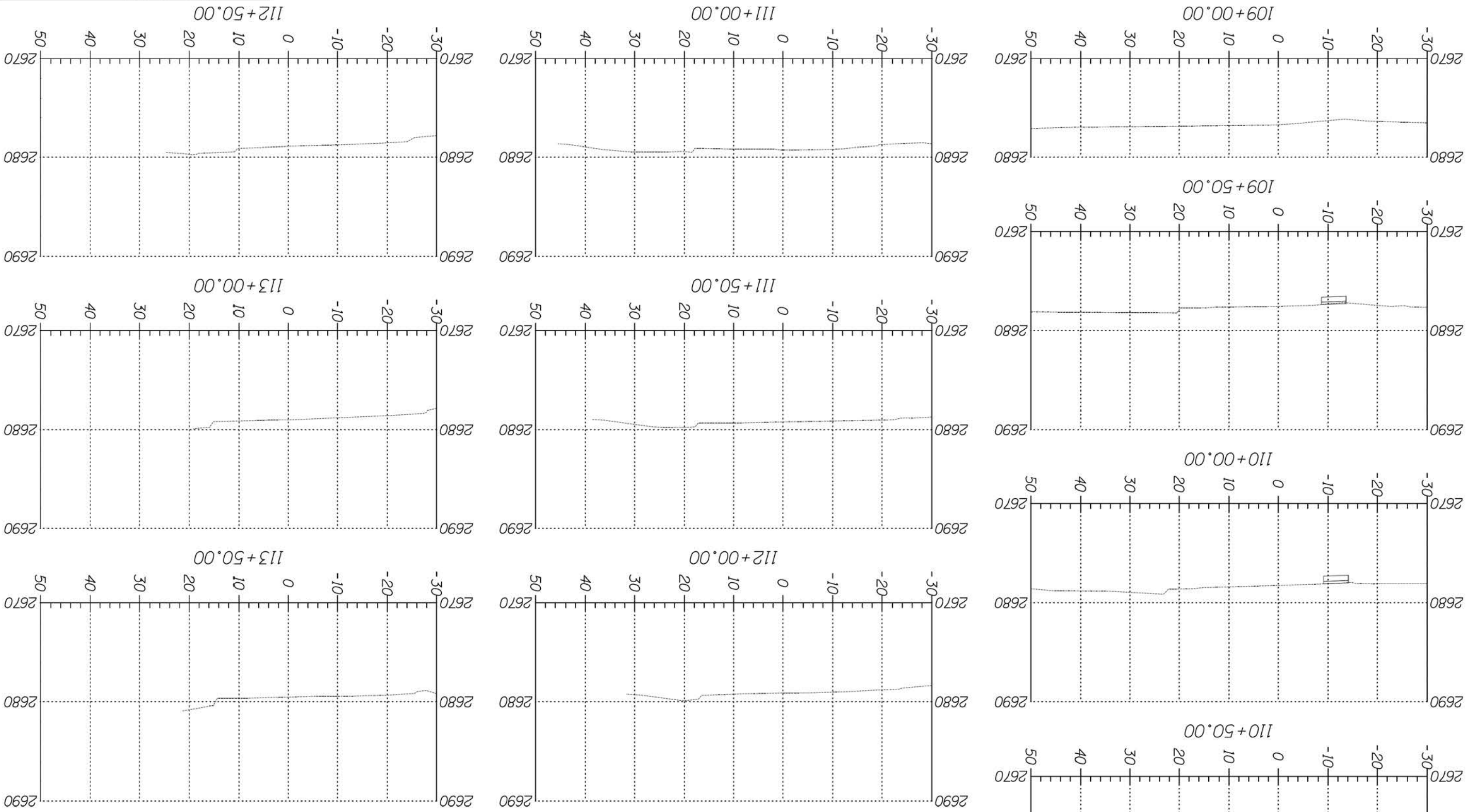
		Date
Designed	J. DANA	04/2014
Drawn	J. DANA	04/2014
Checked	D. MOSEKE	04/2014
Proj. Engr.		

Priscilla S. Cornelio, P.E., Director

F.A.H.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	
9	ARIZ.	PPM 0(227) A	58	60	AS BUILT

0000 PM PPM

V:\2281\Y\ACTIVE\167178226 - HARRISON ROAD\DESIGN\DGN\826-X16.DGN



SCALES: Horiz: 1" = 10' Vert: 1" = 5'

Sheet XI7 of XI8

Pima County Department of Transportation

CROSS SECTIONS
STA 109+00 TO 113+50
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #1TEHBL
TRACS No: 0000 PM PPM SL699 OIC

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Tucson, AZ 85711
PH: (520) 750-7474
FAX: (520) 750-7470
www.stantec.com

FOR INFORMATION ONLY

No.	Revision Description	Engineer	Date

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

Priscilla S. Cornelio, P.E., Director

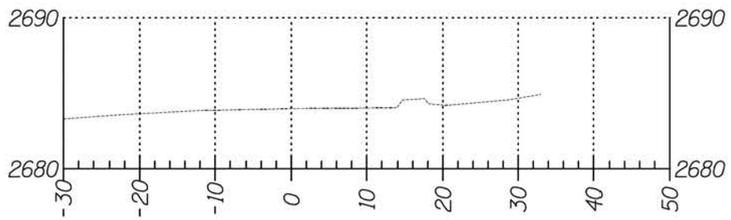
F.A.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	
9	ARIZ.	PPM 0(227) A	59	60	AS BUILT

0000 PM PPM

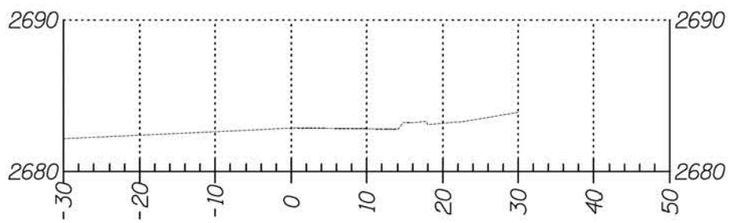
V:\2281\TRACTIVE\181718826 - HARRISON ROAD\DESIGN\DGN\826-X17.DGN
5/14/2014

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM 0(227) A	60	60	

0000 PM PPM



115+50.00



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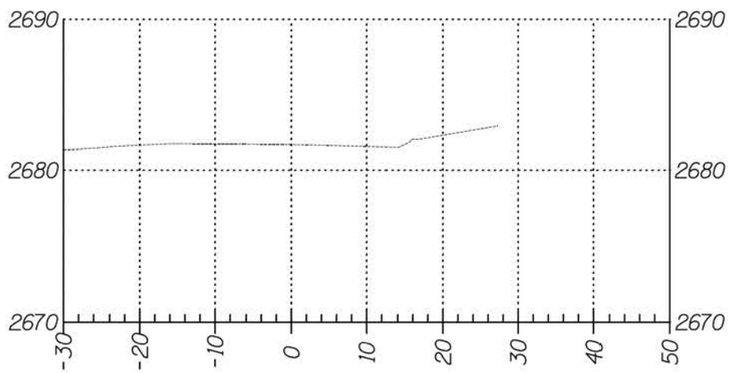

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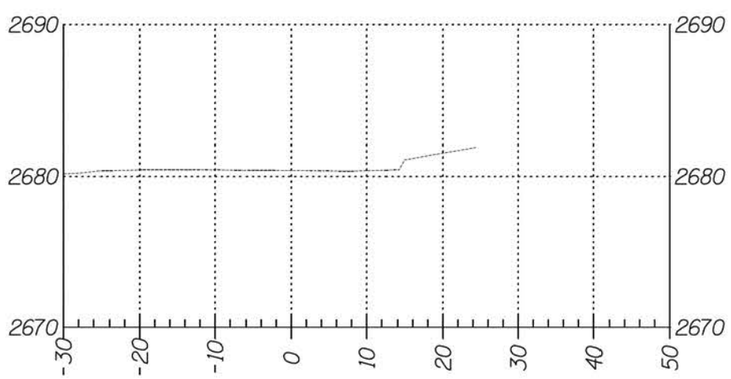

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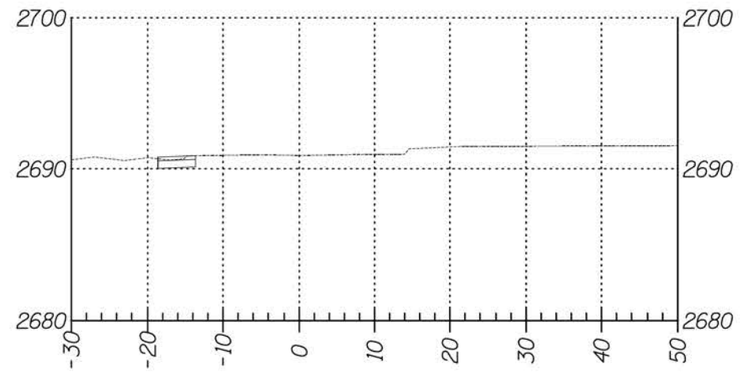

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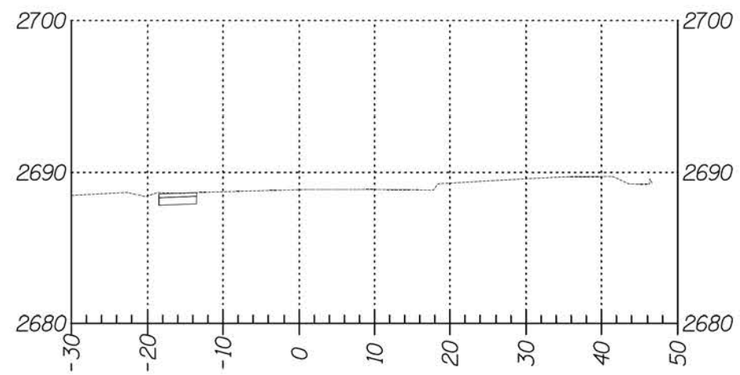

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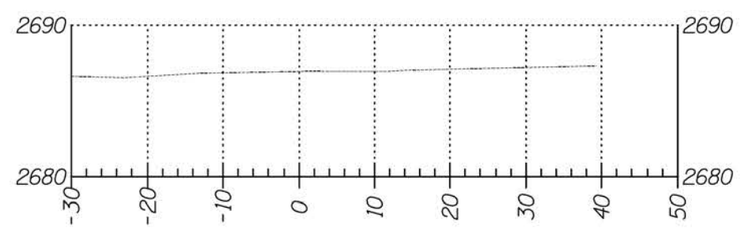

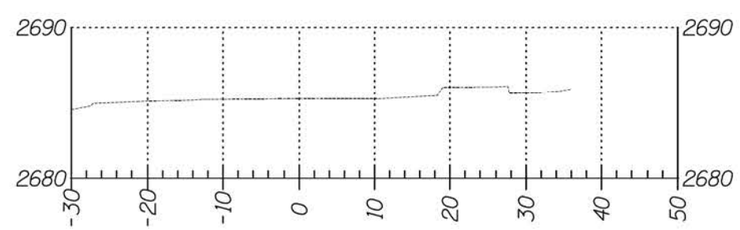

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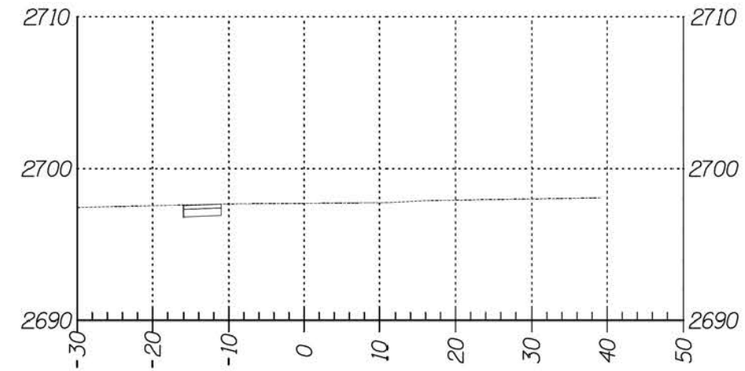

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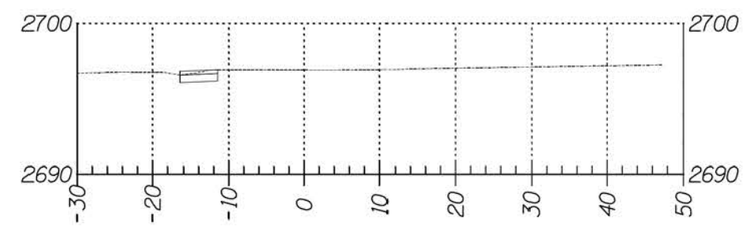

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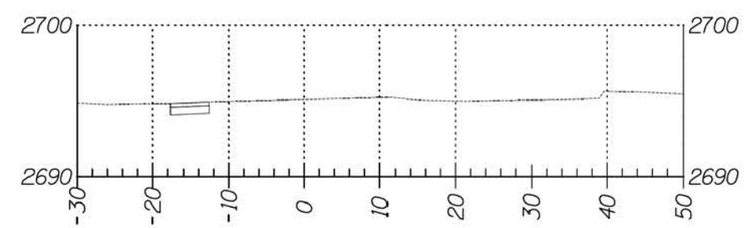

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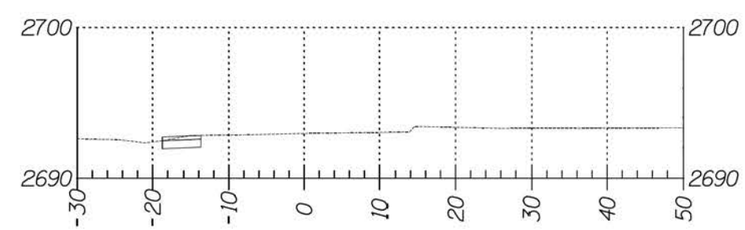

118+00.00

Priscilla S. Cornelio, P.E., Director

		Date
Designed	J DANA	04/2014
Drawn	J DANA	04/2014
Checked	D MOSEKE	04/2014
Proj. Engr.		

No.	Revision Description	Engineer	Date

FOR INFORMATION ONLY

Stantec
5151 East Broadway Blvd. Suite 400
Tucson, AZ 85711
PH: [520] 750-7474
FAX: [520] 750-7470
www.stantec.com

Pima County Department of Transportation

CROSS SECTIONS
STA 114+00 TO 119+21
SABINO HIGH SCHOOL HARRISON ROAD BICYCLE LANE
W.O. #4TEHBL
TRACS No: 0000 PM PPM SL699 OIC

SCALES: Horiz: 1" = 10' Vert: 1"= 5'

5/14/2014 V:\328171\AC\1\16\181718026 - HARRISON ROAD\DESIGN\DGN\026-X18.DGN