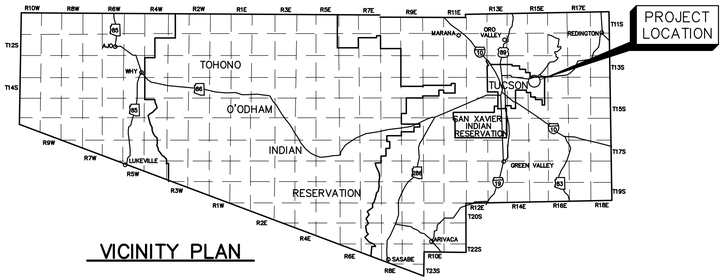
PANTANO WASH

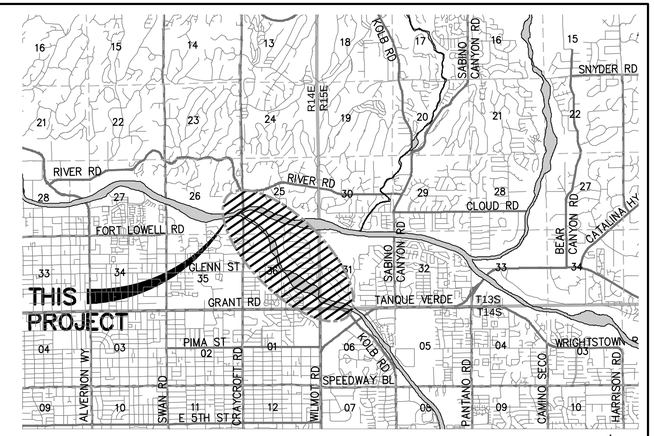
BANK PROTECTION AND RIVER PARK
PHASE 3 AND 4
TANQUE VERDE ROAD TO CRAYCROFT ROAD

PCRFCD PROJECT NO. 5PWFLT

30% CONCEPT PLANS

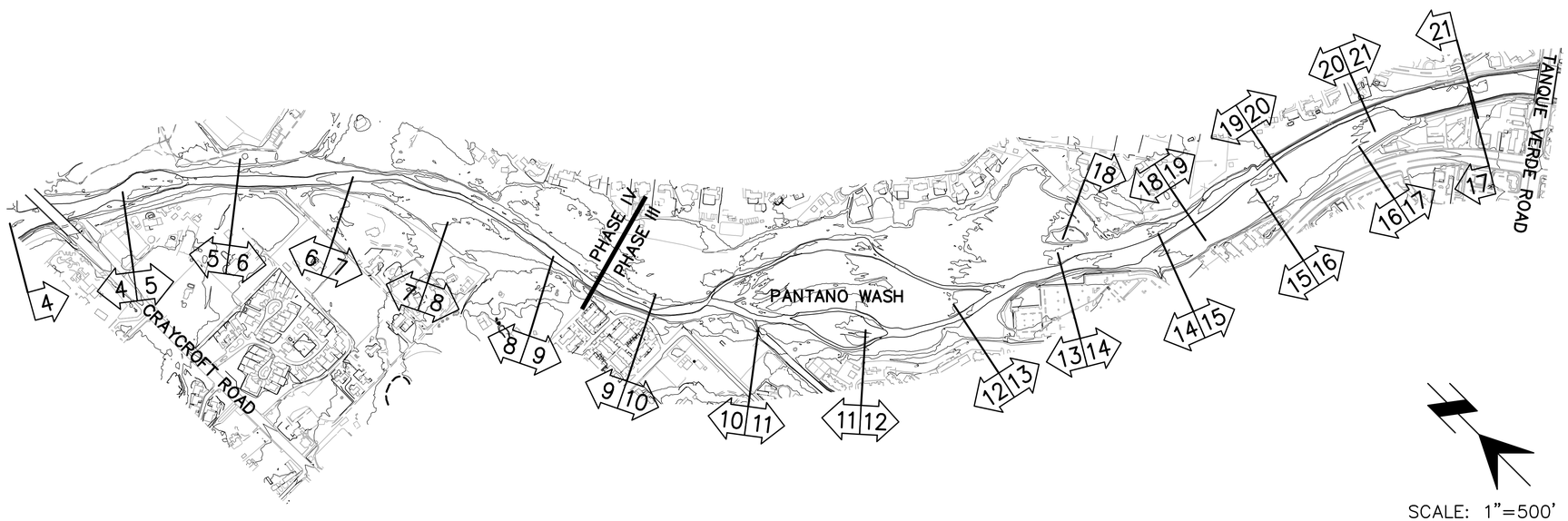


VICINITY PLAN



LOCATION PLAN

Sections 25, 26 & 36, T13S, R14E,
Section 31, T13S, R15E, and
Section 6, T14S, R15E,
G and S R M
Pima County, Arizona
Scale: 1"=1 mile



SCALE: 1"=500'

PROJECT INDEX MAP

SHEET INDEX

SHEET NO.	PAGE NO.	SHEET DESCRIPTION
CS1	1	COVER SHEET
GN1–GN2	2–3	GENERAL NOTES
TS1–TS2	4–5	TYPICAL SECTIONS
PP1–PP18	6–23	PLAN AND PROFILE
L1–L9	24–32	LANDSCAPE PLANS AND DETAILS
S1–S2	33–34	PEDESTRIAN BRIDGE PLANS
XS1–XS11	35–45	CROSS–SECTIONS (N.I.C.)

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, AZ 85705
(520) 292–2300 (520) 292–1290 fax
www.psomas.com

NO.	REVIEWED BY	ENGINEER	DATE
NO.	AS BUILT	ENGINEER	DATE

30% CONCEPT NOT FOR CONSTRUCTION

PIMA COUNTY BOARD OF DIRECTORS

RAMON VALADEZ	CHAIR	DISTRICT 2
ALLY MILLER	MEMBER	DISTRICT 1
RICHARD ELIAS	MEMBER	DISTRICT 5
SHARON BRONSON	MEMBER	DISTRICT 3
RAY J. CARROLL	MEMBER	DISTRICT 4

THIS PROJECT IS LOCATED IN SUPERVISOR DISTRICT 5

UPC–2013–XXX

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

97 E. CONGRESS ST., 3RD FLOOR TUCSON, ARIZONA 85701

SUZANNE SHIELDS, P.E., DIRECTOR

REVIEWED BY	ENGINEER	DATE
MGR. DESIGN ENGR.		
MGR. FIELD ENGR.		

APPROVED _____20__

DIRECTOR

SCALES: HORIZ. AS SHOWN VERT. N/A

COVER SHEET

GENERAL NOTES

1. Construction shall conform to the Pima County/City of Tucson Standard Specifications and Details for Public Improvements, 2003 Edition, except as modified by the contract.

2. Utility locations shown on plans were compiled based on record drawings from the Tucson Water Department and the Pima County Regional Wastewater Reclamation Department. Additional system maps were used for the location of dry utilities. The Contractor shall verify the location of all utilities with the appropriate organizations. Contact "Blue Stake" at 1-800-STAKE-IT two full working days prior to beginning construction. The Contractor shall notify Pima County in writing of any utility locations discovered differing from the plan information in a timely manner.

3. Right of Way encroachments shall be removed only by the order of Pima County, unless otherwise noted.

4. Removal of all cacti and native plants shall be in accordance with the provisions of the "Arizona Native Plant Law", A.R.S., Chapter 7. (ARS section 3-901, et. Seq.) and the Pima County Native Plant Preservation Ordinance.

5. The Contractor shall comply with all applicable Occupational Safety and Health Administration regulations, in particular shoring of trenches.

6. The Contractor shall obtain all permits required by all governmental agencies. Since this project is in City of Tucson, the Contractor will be required to obtain a Grading Permit, Floodplain Use Permit and Traffic Control Permit from the City prior to construction. For work beyond the scope of these project limits, plans or specifications, the Contractor shall obtain a separate floodplain and/or grading permit prior to commencing such work.

7. The plans for this project have been designed, using PCDOT Standard Details, 2003, ADOT Construction Standard Drawings, 2007 (C-Series), and ADOT Structures Standard Drawings, 1992 (B Series).

8. Soils information will be made available to prospective bidders. Soils information so provided shall be for information purposes only and is not to be considered a part of the contract documents. This information was developed as accurately as possible by utilizing standard methods. Pima County accepts no responsibility for any conditions encountered which vary from information provided.

9. Contour lines on the grading plan are to used for rough grading. Specific spot elevations are to be used for final grading and construction.

10. The Contractor shall preserve all stakes set for the lines, levels or measurements of the work in their proper places until authorized to remove them by the owner or his representative. Any expense incurred in replacing any stakes which the Contractor or his subordinates may have failed to preserve shall be charged to the Contractor.

11. Existing vegetation beyond the limits of grading will be preserved in place. Prior to grading, the Contractor shall stake the grading limits and conduct a field visit with the Engineer at which time existing vegetation that is to be preserved in place shall be agreed upon and clearly marked. Existing vegetation outside the limits of grading that is damaged by construction activities shall be replaced by the Contractor at no additional expense to the Owner. Damaged vegetation shall be replaced with the same species and at the same size or larger. Additionally, vegetation within the grading limits which can be protected in place with reasonable effort, is not in conflict with proposed improvements, and does not pose a significant impediment to construction activities shall be identified prior to commencement of grading activities and marked accordingly.

12. The Contractor shall field verify existing sewer elevations and alignments prior to construction and implementation. Verification may require potholing.

13. Although plans provide for a precise alignment for the DG pathways, adjustments may be made by the engineer or others during construction based on observed field conditions and approval by the engineer.

GENERAL SEWER NOTES

1. All design standards, materials and workmanship for public sanitary sewers are to be in accordance with the latest edition of the Pima County Regional Wastewater Reclamation Department's (PCRWRD) Manual of Engineering Standards and Procedures, and the Pima County / City of Tucson Standard Details and Specifications for Public Improvements. Said manuals are on file at the Pima County Regional Wastewater Reclamation Department offices at 201 N. Stone Avenue, 8th floor.

2. The Contractor shall verify locations and elevations of all existing utilities prior to any construction. Call "Blue Stake" at 1-800-782-5348, a minimum of two (2) full working days prior to excavating.

3. Existing pressure and abandoned sewer main locations will be identified and marked per PC/COT Standard Detail WWM 507.

4. City of Tucson/Pima County Standard Detail WWM 106 applies to this project.

GENERAL SEWER NOTES *(Continued)*

5. Immediately report any release of sewage, and/or any damage to, or the dropping of debris into, the public sanitary sewage conveyance system to either PCRWRD Field Engineering (520-740-2651) or PCRWRD Field Operations (520-443-6500). On weekends, holidays, or between 5:00 PM and 8:00 AM, immediately call Pima County Central Control Room (CCR) (520-443-6048) and request a PCRWRD representative to be dispatched to the site. Take immediate action to prevent or contain the sanitary sewage overflow (SSO) from the sewer system. The Contractor shall be responsible for all costs to repair the system, for all expenses to mitigate the release and to disinfect the release areas, and for any regulatory penalties levied on PCRWRD because the SSO entered a natural or constructed storm water drainage system. The Contractor shall repair all damage as directed and approved by PCRWRD.

6. 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 (COT/PC SD WWM 404), at no expense to the property owner or the Pima County Regional Wastewater Reclamation Department.

7. Sewer construction shall not commence until: (a) Pima County Department of Environmental Quality (PCDEQ) has issued a "Certificate of Construction Authorization" for this project. (b) The Contractor has obtained a public sewer construction permit from the Pima County Regional Wastewater Reclamation Department (520-740-6369). (c) A Pre-Construction meeting with the assigned Pima County Project Inspector is scheduled; at least three (3) full working days prior to the start of sewer construction. Flow Management Plans shall be submitted to Field Engineering, thirty days (30) prior to the Pre-Construction meeting.

8. It is the Contractor's responsibility to adjust or reconstruct all sanitary sewer manhole structures to finished grade. All ring and cover adjustments are to be in accordance with City of Tucson/Pima County Standard Details for Public Improvements WWM 304, WWM 305 or WWM 306 (as applicable) and WWM 307. While adjusting the manhole to finished grade, it is the Contractor's responsibility to ensure that rings and covers are cleaned of any and all attached materials (asphalt, concrete, etc.), and ensure that any vent holes are open and clear of obstructions. If the frames and covers are damaged or cannot be completely cleaned, then a new frame and cover is to be put into place, and cost associated with these actions are the responsibility of the Contractor. Refer to Standard Details WWM 213.0-214.3 for requirements for rings and covers.

9. Engineering directive, ENG2006-09, applies to any project that requires trenching within 6' horizontal, or 2' vertical, of an existing public sewer main. It is the responsibility of the Contractor to: (a) Identify and include all flow management costs in the construction bid. (b) Provide a Flow Management Plan, thirty days (30) prior to a Pre-Construction meeting with Wastewater Field Engineering, preceding any work that may affect a live sewer. Refer to Standard Detail WWM A-5 for Flow Management Plan requirements. Call Regional Wastewater Field Engineering at (520) 740-2651 regarding all questions involving preparation of Flow Management Plans.

10. Manhole surfaces shall be caulked, sealed and coated per Pima County/City of Tucson Standard Detail A-3.8, Standard Specification 509-2.09 and Engineering Directive ENG2006-15.

11. Any landscaping located within ten feet (10') horizontal, of the public sanitary sewer mains and manholes shall be in accordance with the planting guidelines contained within City of Tucson/Pima County Standard Detail WWM A-4.

12. All landscaping within the public sewer easements shown hereon shall be in accordance with the planting guidelines contained within City of Tucson/Pima County Standard Detail WWM A-4.

13. All project activities must be kept within the project areas. A caution must be noted concerning human burials. Archaeological clearance recommendations do not exempt the development from compliance with State Burial Protection Laws. In the event that human remains, including human skeletal remains, cremations, and/or ceremonial objects and funerary objects are found during excavation or construction, ground disturbing activities must cease in the immediate vicinity of the discovery. State laws ARS 41-865 and ARS 41-844 require that the Arizona State Museum be notified of the discovery (520-621-4795) so that cultural groups who claim cultural or religious affinity to them can make appropriate arrangements for the repatriation and reburial of the remains. The human remains will be removed from the site by a professional archaeologist pending consultation and review by the Arizona State Museum and the concerned cultural groups.

14. Contractor shall maintain access to all sanitary sewer manhole structures at all times.

SURVEY CONTROL NOTES

1. Horizontal Control:

This project utilizes the Arizona Coordinate System, 1983 (ACS 83), HARN92, International feet, and is located in the Central Zone. The control network was surveyed in December, 2007 using Trimble GPS units utilizing static methods and incorporated the following Pima County/City of Tucson geodetic control points:

Pt. No.	Station	Index Code
1	c05	e1415c05
2	e07	e1415e07
176	e05	e1415e05
4	c03	e1415c03
5	a03	e1415a03
174	a05	e1415a05

The following points were added to the network utilizing RTK methods:

301	X01	E1315X01
302	V23	E1314V23
303	T23	E1314T23
304	R23	E1314R23
324	A23	E1414A23
341	X03	E1315X03
342	X05	E1315X05

Basis of Bearing:
The basis of bearing for this project is North 89° 35' 14" East, upon the south line of the Southeast Quarter of Section 36, Township 13 South, Range 14 East, Gila and Salt River Meridian, Pima County, Arizona.

Surface coordinates and/or distances were computed from the ACS 83 coordinates by applying a project specific grid to surface combined elevation and scale factor at a central point (No. 8) and then subtracting a constant from the resulting coordinates:

$NP\ LOC = (NP\ ACS83 - NCP\ ACS83) * CF + NCP\ ACS83 - KN$

$EP\ LOC = (EP\ ACS83 - ECP\ ACS83) * CF + ECP\ ACS83 - KE$

Where NP Loc = Local North
NP ACS83 = ACS 83 North
NCP ACS83 = ACS 83 at Central point
EP Loc = Local East
EP ACS83 = ACS 83 East
ECP ACS83 = ACS 83 at Central Point

Combined Factor (CF) = 1.0000893064
Constant (K) = N 400000.000, E 1000000.000

Central Point	N 453825.093	(ACS83)	N 53825.093	(Local)
	E 1032612.758	(ACS83)	E 32612.758	(Local)

The reference meridian is ACS 83 grid north.

2. Vertical Control:

The vertical datum for this project is the North American Vertical Datum, 1988 (NAVD88). The following City of Tucson bench marks used for this project were:

Pt. No.	Station	Index No./C.O.T. FB. No.		Elevation	
10	54E	1989 E1	PG. 5 Lt.	2510.79'	
12	8E	1989 E1	PG. 1 Lt.	2498.75'	
324	A23	1989 A2	PG. 37	2490.62'	
325	X21	1989 J1	PG. 39	2456.85'	
333	X23	1989 J1	PG. 17	2465.55'	*Benchmark
344	V21	1989 J1	PG. 39	2432.63'	
345	T21	1989 J1	PG. 39	2468.94'	

The benchmark for this project is Point No. 333. (Sta. X23) with an elevation of 2465.55', a PK nail in conc. on the NE side of a sewer manhole at the intersection of Glenn Street and Sahuara Avenue.

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

SCALES: HORIZ. N/A VERT. N/A | SHEET GN1 OF GN2 | Page 2 of 45

SUZANNE SHIELDS, P.E., DIRECTOR

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, AZ 85705
(520) 292-2300 (520) 292-1290 (FAX)

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PROJECT NOTES FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK - PHASE 3 & 4

PIMA COUNTY W.O. 5PWFLT

I:\7PFC11\0201\ENGR\SHEETS\Cover Sheet And General Notes\C-PW-02_Notes.dwg NOTES I Last Saved: Tue, 22 Oct 2013 By: Kielendre Plotted: Tuesday, October 22, 2013 8:30:49 AM

LEGEND

NEW		EXISTING
	Barricade Railing	—X—X—
	Wall	—— W ——
◄——	Direction of Slope	
	Gas Line Marker	GLM ◇
	Gas Line	—Gas 2" STL—
	Gas Meter	□ G
	Gas Valve	⊗ G
	Water Access Outlet or MH	Ⓦ
	Reclaimed Water Line	—— W–24" RW
	Water Line	——8"W——
	Water Meter	□ W
	Water Valve	⊗
	Air Release Valve	Ⓐ
	Sanitary Sewer Line	—— S ——
	Sanitary Sewer Manhole	◉
	Storm Drain Manhole	⊙
	Transformer	⧄
	Electric Line	—— E ——
	Overhead Electric	—— OHE——
	Aerial Fiber Optics Line	——FO——
	Fire Hydrant	-o- FH
	Utility Pole	—○—
	Light Pole	-☼-
	Underground Telephone Line	—— UGT——
	Telephone Pedestal	□ T
	Sign	-o-
	Survey Monument	⊕
	Benchmark	★
	Section Line & Corner	▣
—— C ——	Cut Limits	
—— F ——	Fill Limits	
//////////	Preservation Fencing	
	100 Year WSE	
	Property Line	—— ℙ ——
	Survey Control Line	
	Existing Ground Profile	
	Finished Flowline	
	Temp. Construction Esmt. (TCE)	
	R/W Line	
	Post & Cable Barrier	
	Brick Wall	
	Asphalt Paving	
	Concrete Sidewalk or Walkway	
	Decomposed Granite	
	Rock Mulch	
TC=XX.XX	Top of Curb Elevation	
XX.XX FG	Finished Grade Elevation	
	Protect in Place Tree	

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

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENGR.:	KUL	06/2013

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PROJECT NOTES
FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4

30% NOT FOR CONSTRUCTION

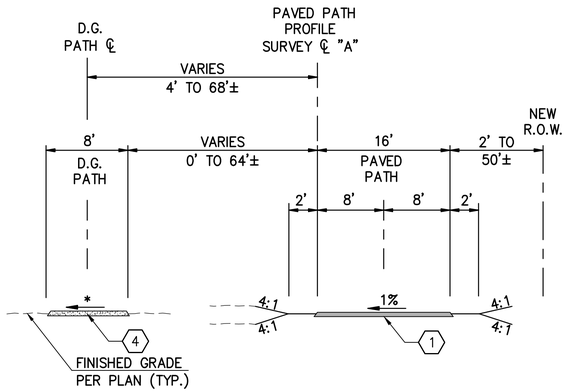
PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
(520) 292-2300 (520) 292-1290 (FAX)

PIMA COUNTY W.O. 5PWFLT

SCALES:	HORIZ. N/A
	VERT. N/A

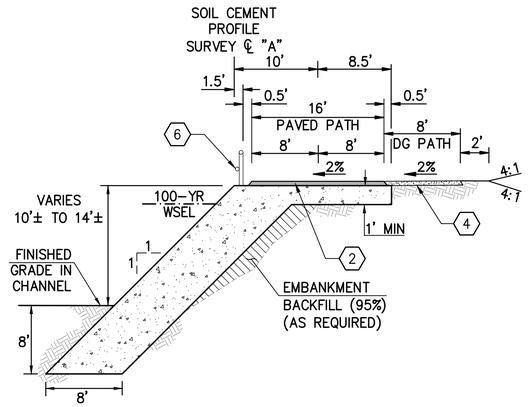
SHEET GN2 OF GN2

I:\PFC110201\ENGR\SHEETS\Cover Sheet And General Notes\C-PW-02_Notes.dwg NOTES 2 Last Saved: Tue, 22 Oct 2013 By: Kielendre Plotted: Tuesday, October 22, 2013 7:51:29 AM



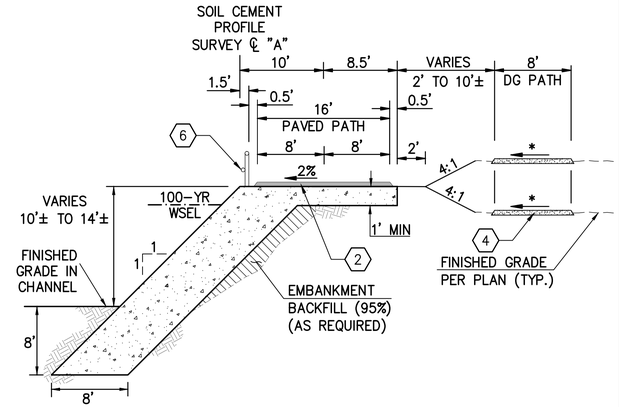
A TYPICAL DUAL PATH SECTION

RIGHT BANK – STATION 10+00 TO STATION 46+15 NTS
(SURVEY CONTROL LINE "A")



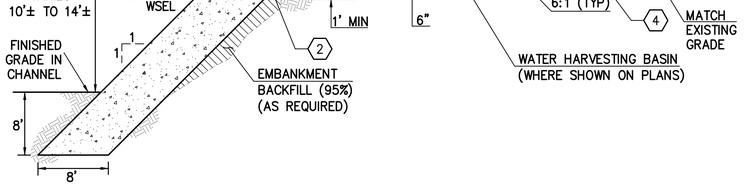
B TYPICAL SOIL CEMENT SECTION

RIGHT BANK – STATION 46+15 TO STATION 52+10 NTS
STATION 90+00 TO STATION 93+50
(SURVEY CONTROL LINE "A")



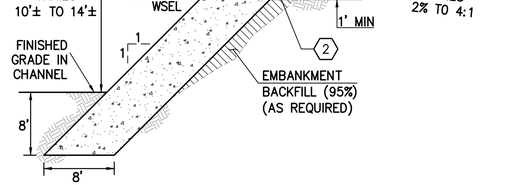
C TYPICAL SOIL CEMENT SECTION

RIGHT BANK – STATION 62+85 TO STATION 76+50 NTS
(SURVEY CONTROL LINE "A")



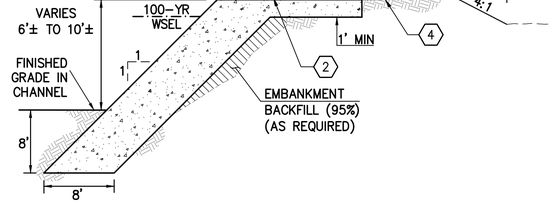
D TYPICAL SOIL CEMENT SECTION

RIGHT BANK – STATION 50+00 TO STATION 59+60 NTS
STATION 80+00 TO STATION 86+40
STATION 102+00 TO STATION 109+00
(SURVEY CONTROL LINE "A")



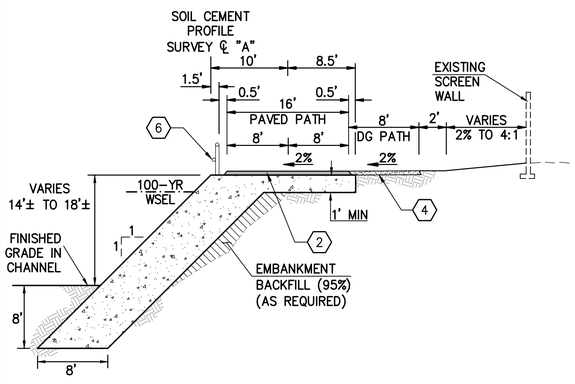
E TYPICAL SOIL CEMENT SECTION

RIGHT BANK – STATION 60+00 TO STATION 61+00 NTS
(SURVEY CONTROL LINE "A")



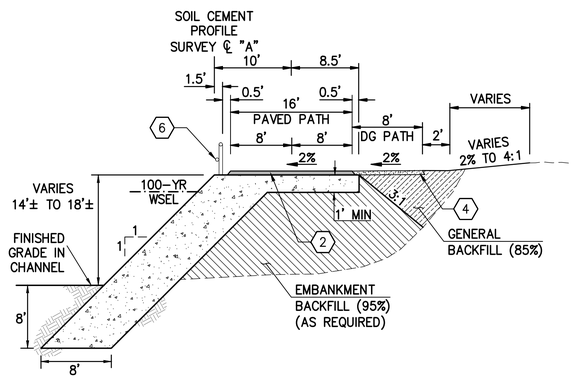
F TYPICAL SOIL CEMENT SECTION

RIGHT BANK – STATION 76+50 TO STATION 80+00 NTS
(SURVEY CONTROL LINE "A")



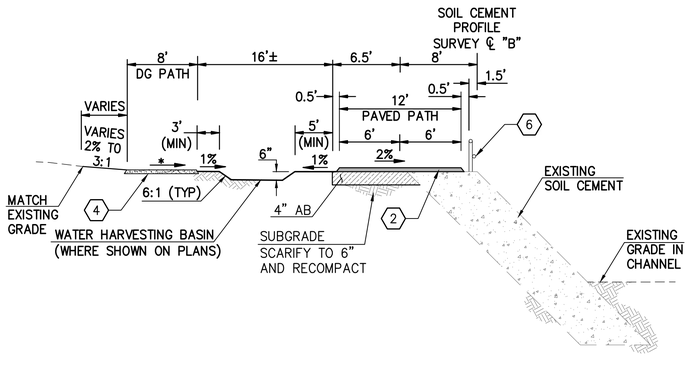
G TYPICAL SOIL CEMENT SECTION

RIGHT BANK – STATION 86+40 TO STATION 90+00 NTS
(SURVEY CONTROL LINE "A")



H TYPICAL SOIL CEMENT SECTION

RIGHT BANK – STATION 95+55 TO STATION 102+00 NTS
STATION 109+00 TO STATION 114+70
(SURVEY CONTROL LINE "A")



I TYPICAL SOIL CEMENT SECTION

LEFT BANK – STATION 25+08 TO STATION 37+95 NTS
(SURVEY CONTROL LINE "B")

KEYNOTES:

1. NEW PAVED PATHWAY ON GRADE, FILL OR CUT PER DETAIL F – SHEET TS2.
2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL.
3. NEW POST AND CABLE BARRIER
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
6. BARRICADE RAILING PER STD. DTL. 105.

* MATCH EXISTING SLOPE – 1% MINIMUM

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

SCALES: HORIZ. N/A VERT. N/A

SHEET TS1 OF TS2

SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	KUL/CRJ/MED	DATE 06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

TYPICAL SECTIONS FOR PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450 Tucson, Arizona 85705 (520) 292-2300 (520) 292-1290 (FAX)

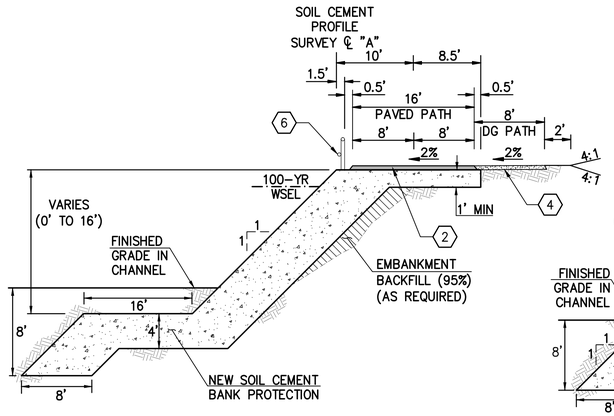
PIMA COUNTY W.O. 5PWFLT

Page 4 of 45

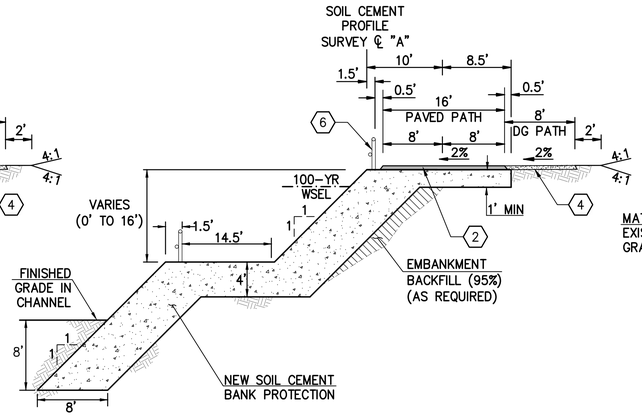
T:\PFC11020\1\ENGR\SHEETS\Typical Sections\PL-TS01.dwg 22x34 Last Saved: Tue, 22 Oct 2013 By: Kketendre Plotted: Tuesday, October 22, 2013 8:32:25 AM

KEYNOTES:

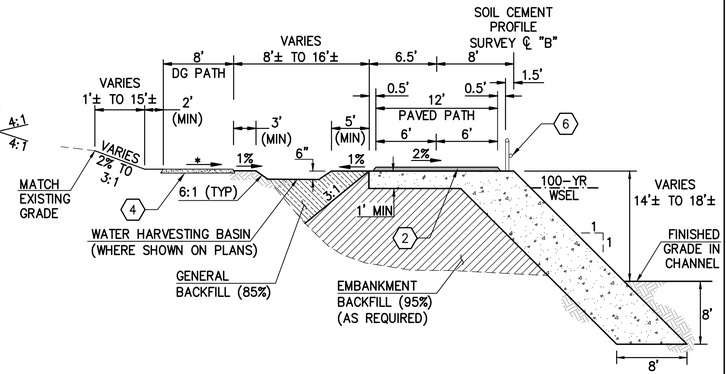
1. NEW PAVED PATHWAY ON GRADE, FILL OR CUT PER DETAIL F – THIS SHEET.
2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL G – THIS SHEET.
3. NEW POST AND CABLE BARRIER
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – THIS SHEET.
6. BARRICADE RAILING PER STD. DTL. 105.



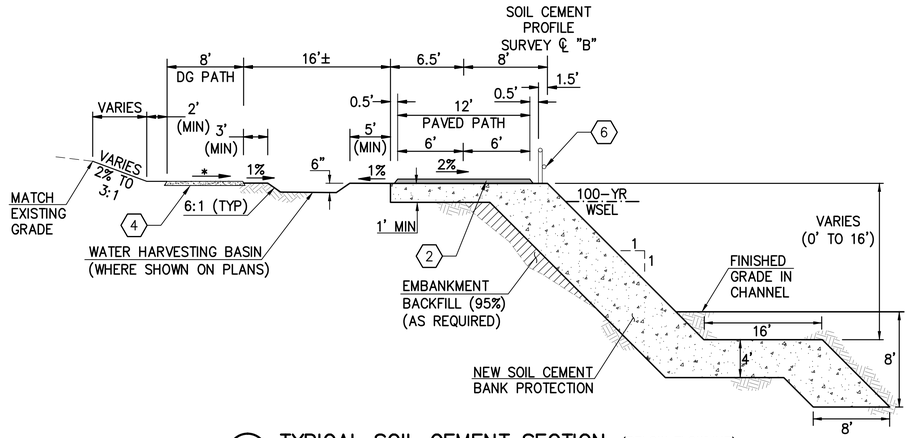
A **TYPICAL SOIL CEMENT SECTION** (BELOW FLOWLINE)
RIGHT BANK – STATION 93+50 TO STATION 94+08 NTS
(SURVEY CONTROL LINE "A")



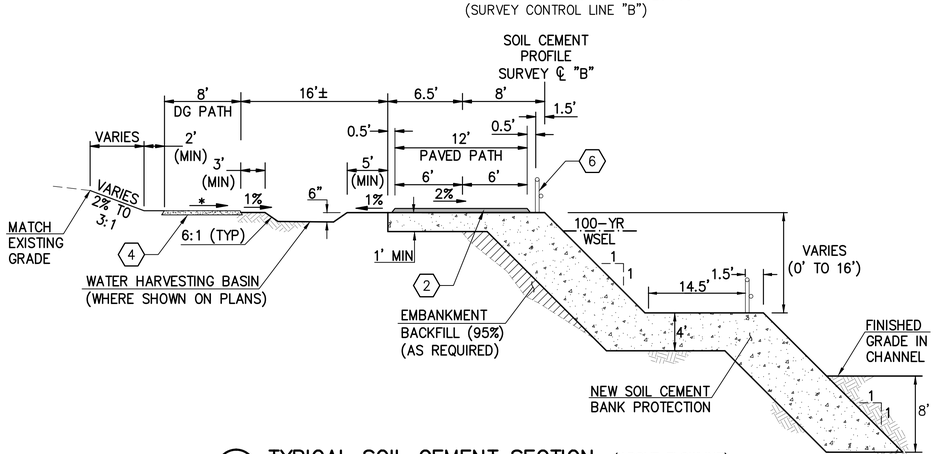
B **TYPICAL SOIL CEMENT SECTION** (ABOVE FLOWLINE)
RIGHT BANK – STATION 94+08 TO STATION 95+55 NTS NTS
(SURVEY CONTROL LINE "A")



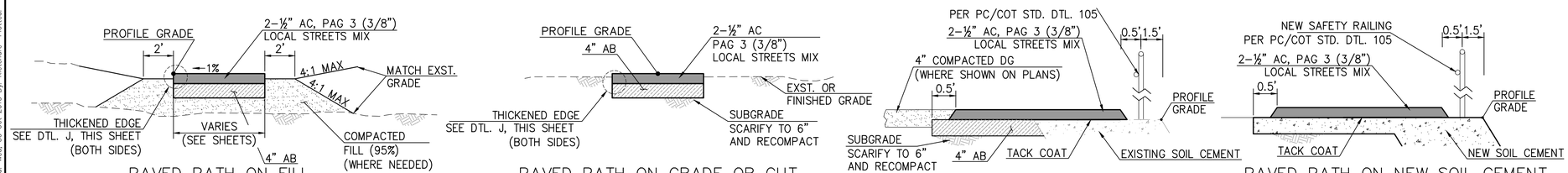
C **TYPICAL SOIL CEMENT SECTION**
LEFT BANK – STATION 10+50 TO STATION 15+58 NTS
STATION 17+75 TO STATION 25+08
(SURVEY CONTROL LINE "B")



D **TYPICAL SOIL CEMENT SECTION** (BELOW FLOWLINE)
LEFT BANK – STATION 15+25 TO STATION 15+95 NTS
(SURVEY CONTROL LINE "B")

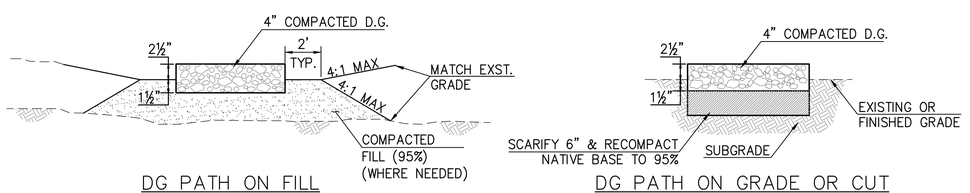


E **TYPICAL SOIL CEMENT SECTION** (ABOVE FLOWLINE)
LEFT BANK – STATION 15+95 TO STATION 17+75 NTS
(SURVEY CONTROL LINE "B")

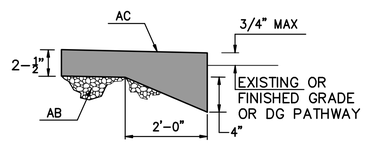


F **PAVED PATH TYPICAL SECTIONS**
NTS

G **PAVED PATH ON SOIL CEMENT**
NTS



H **DG PATH TYPICAL SECTIONS**
NTS



I **PAVED PATH THICKENED EDGE**
NTS

* MATCH EXISTING SLOPE – 1% MINIMUM

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

SCALES: HORIZ. N/A VERT. N/A

SHEET TS2 OF TS2

Page 5 of 45

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

DESIGNED:	KUL/CRJ/MED	DATE
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013
		06/2013

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
(520) 292-2300 (520) 292-1290 (FAX)

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

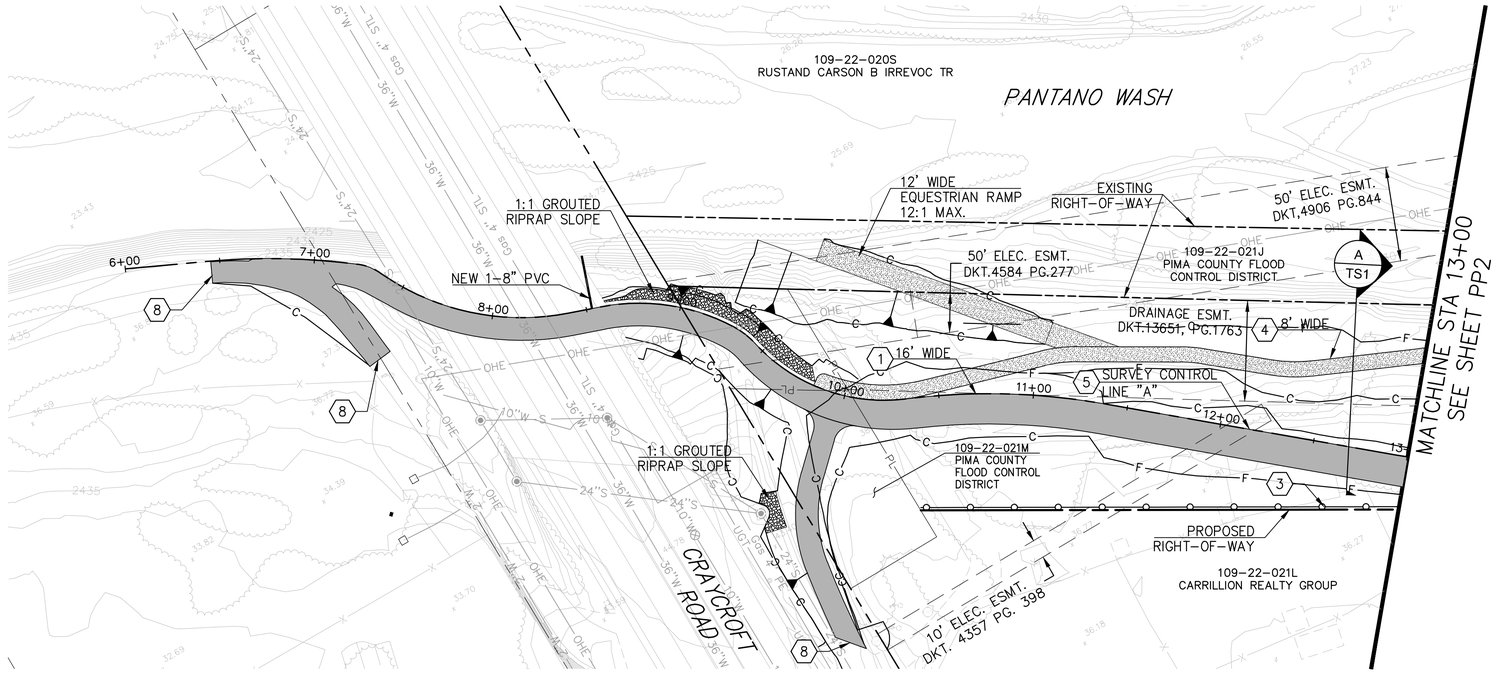
TYPICAL SECTIONS FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4

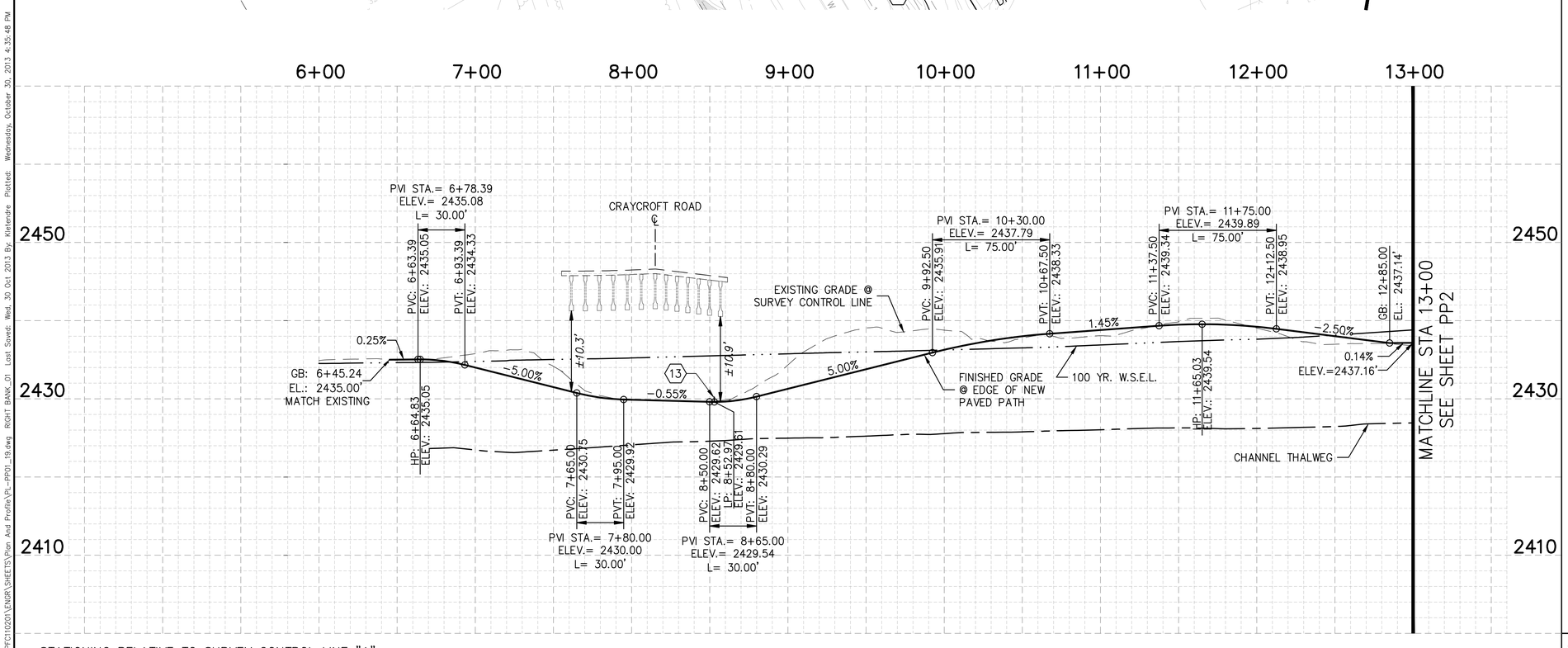
PIMA COUNTY W.O. 5PWFLT

T:\PFC11020\ENGR\SHEETS\Typical Sections\PL-TS02.dwg 22x34 Last Saved: Wed, 30 Oct 2013 By: Kietendre Plotted: Wednesday, October 30, 2013 5:12:42 PM

KEYNOTES:

1. NEW PAVED PATHWAY ON GRADE, FILL OR CUT PER DETAIL G – SHEET TS2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
8. SAWCUT, TACK AND JOIN TO EXISTING PAVEMENT PROVIDING SMOOTH TRANSITION
13. REMOVE AND REPLACE EXISTING 4" PVC PIPE WITH NEW 8" PVC PIPE.





STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

40 0 20 40 60 80
SCALE IN FEET

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

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP1 OF PP18

SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	KUL/CRJ/MED
DRAWN:	CRJ/KUL
CHECKED:	MED
PROJ. ENG.:	KUL

DATE
06/2013
06/2013
06/2013
06/2013
06/2013

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
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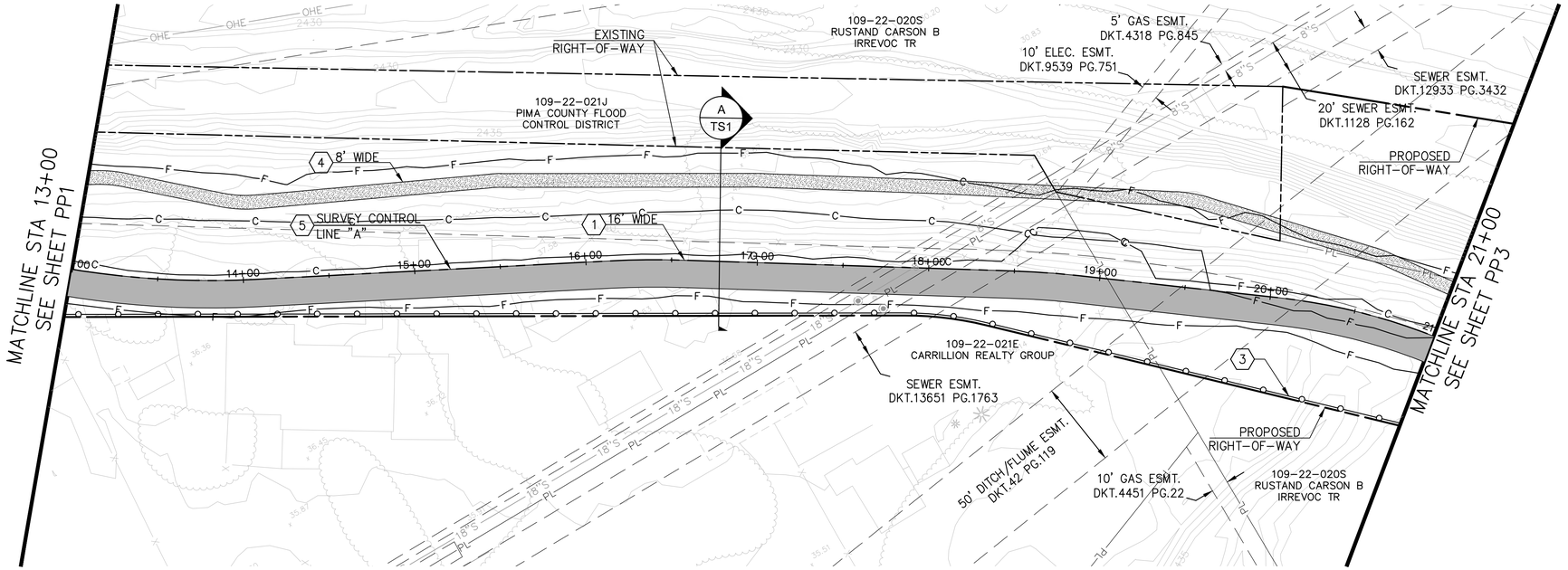
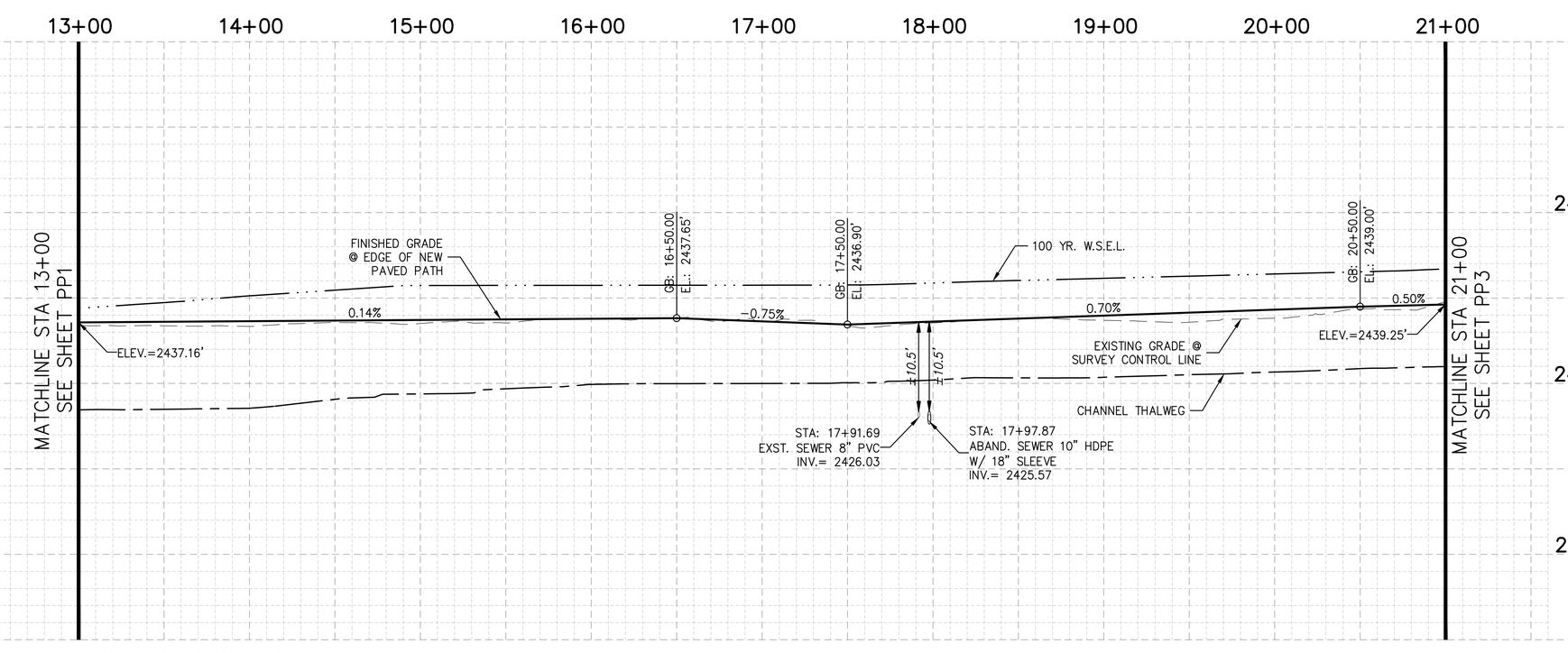
PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

T:\7PFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg RIGHT BANK_01 Last Saved: Wed, 30 Oct 2013 By: Kielendre Plotted: Wednesday, October 30, 2013 4:35:48 PM

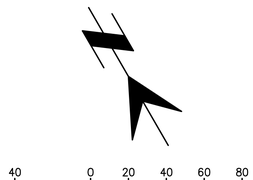




STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

KEYNOTES:

1. NEW PAVED PATHWAY ON GRADE, FILL OR CUT PER DETAIL G – SHEET TS2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.



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

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP2 OF PP18

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

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Tucson, Arizona 85705
(520) 292-2600 (520) 292-1290 (FAX)

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

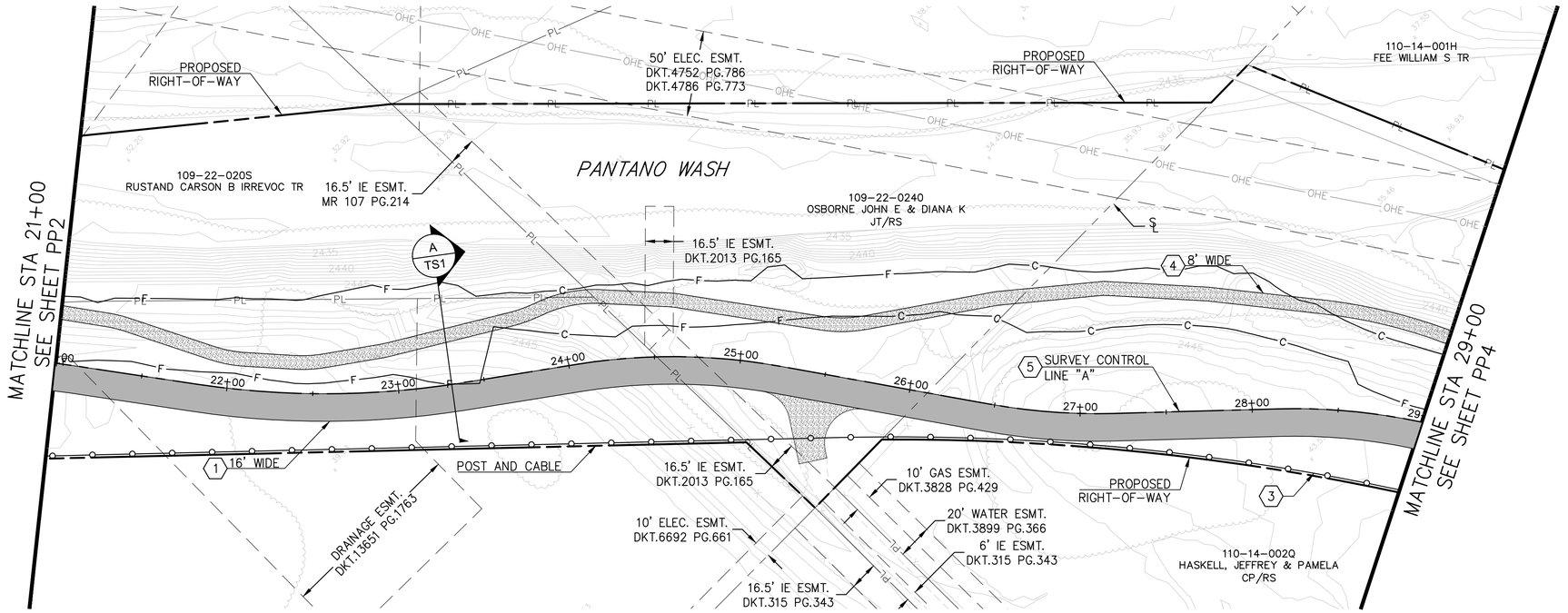
PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

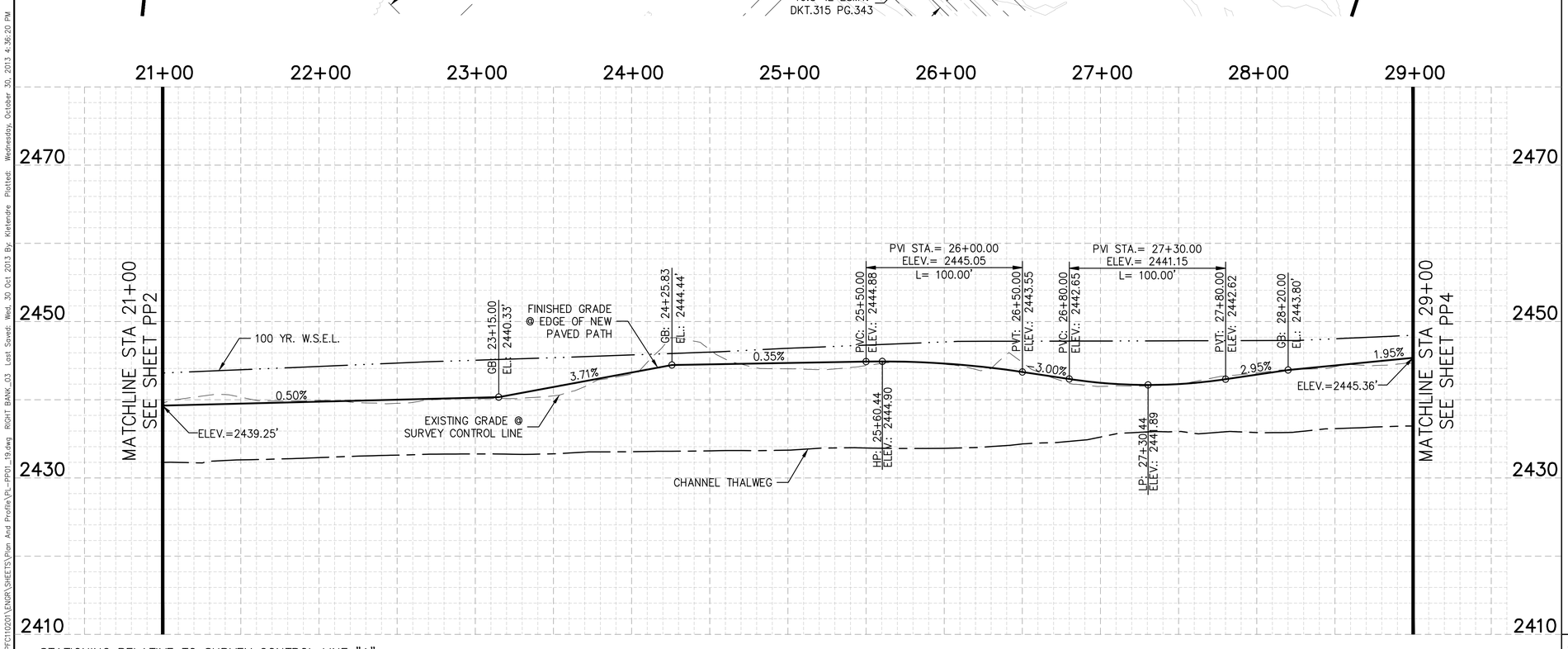
PIMA COUNTY W.O. 5PWFLT

T:\7PFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg RIGHT BANK_02 Last Saved: Wed, 30 Oct 2013 By: Kletendre Plotted: Wednesday, October 30, 2013 4:36:05 PM

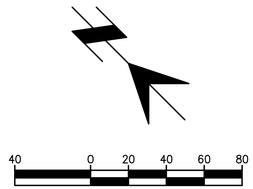
KEYNOTES:

1. NEW PAVED PATHWAY ON GRADE, FILL OR CUT PER DETAIL F – SHEET TS2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.





STATIONING RELATIVE TO SURVEY CONTROL LINE "A"



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

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP3 OF PP18

SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	KUL/CRJ/MED
DRAWN:	CRJ/KUL
CHECKED:	MED
PROJ. ENG.:	KUL

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE
			06/2013
			06/2013
			06/2013
			06/2013
			06/2013

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PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

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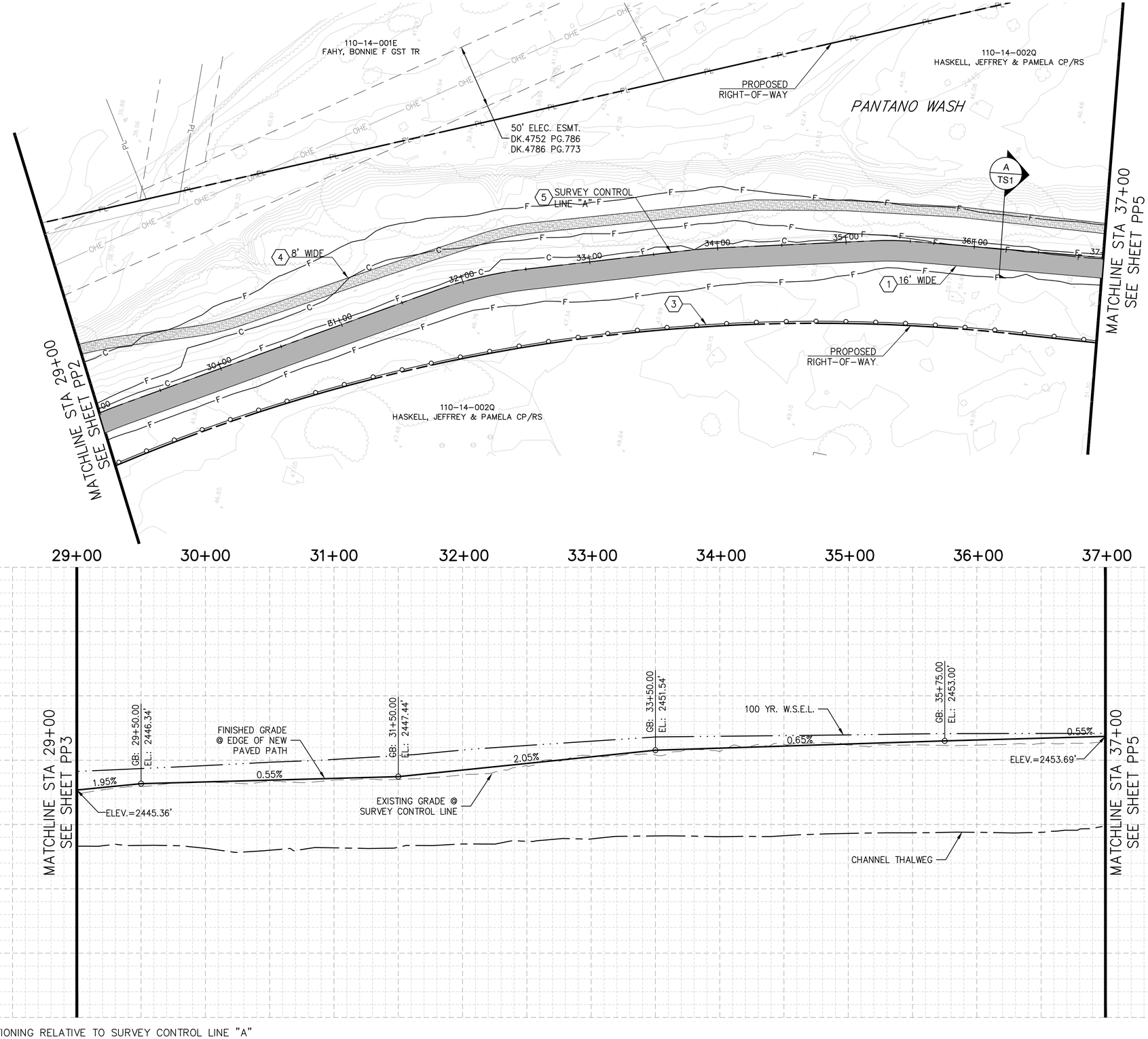

STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

KEYNOTES:

1. NEW PAVED PATHWAY ON GRADE, FILL OR CUT PER DETAIL F – SHEET TS2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.

40 0 20 40 60 80

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

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP4 OF PP18

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

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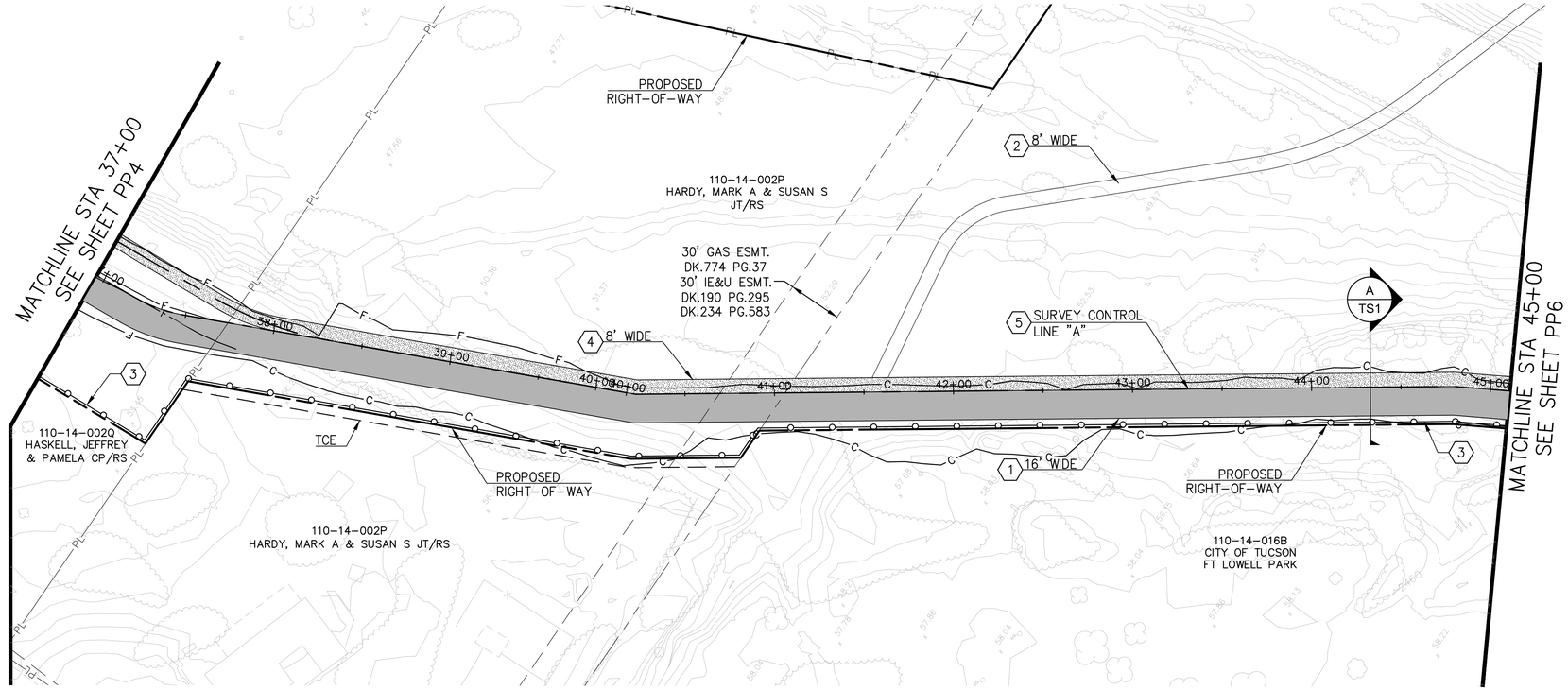
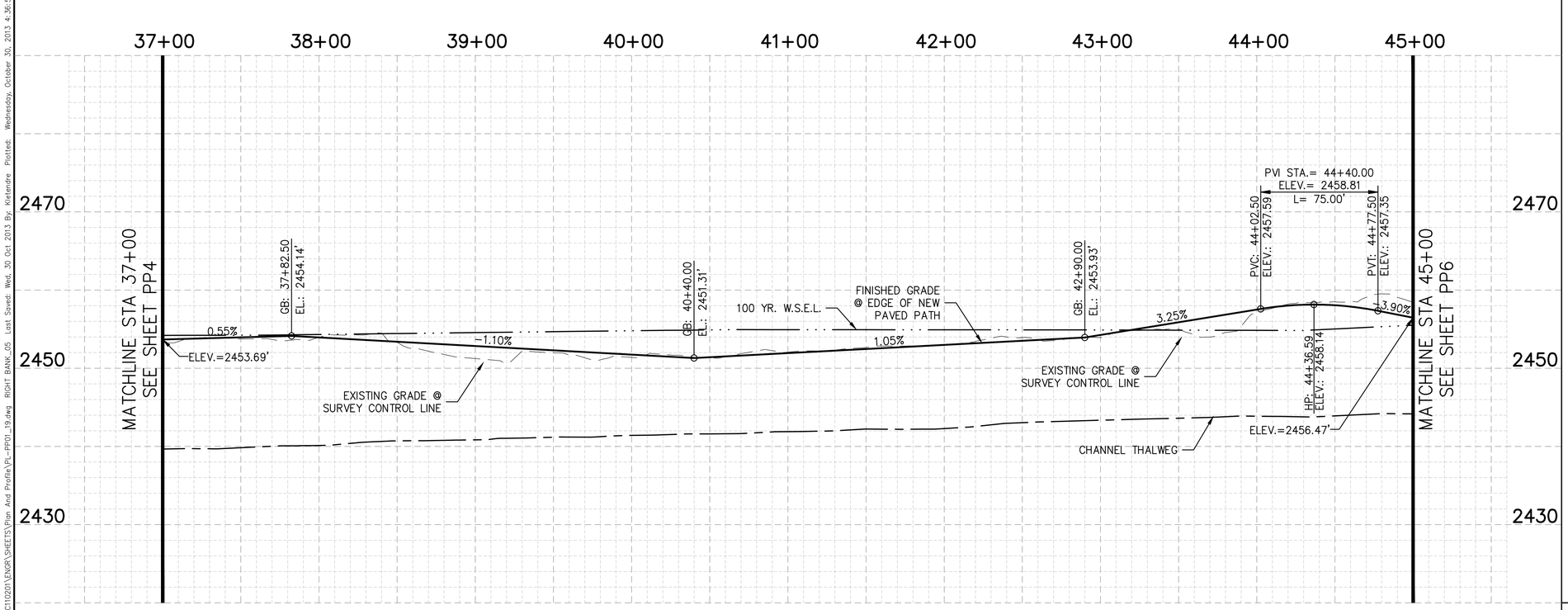
PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

T:\7PFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg RIGHT BANK_04 Last Saved: Wed, 30 Oct 2013 By: Kielendre Plotted: Wednesday, October 30, 2013 4:36:35 PM





STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

KEYNOTES:

1. NEW PAVED PATHWAY ON GRADE, FILL OR CUT PER DETAIL F – SHEET TS2.
2. NATURAL SURFACE PATH. ALIGNMENT SHOWN IS APPROXIMATE AND IS TO BE ADJUSTED BASED ON FIELD CONDITIONS.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.

40 0 20 40 60 80

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

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP5 OF PP18

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

	DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

30% NOT FOR CONSTRUCTION

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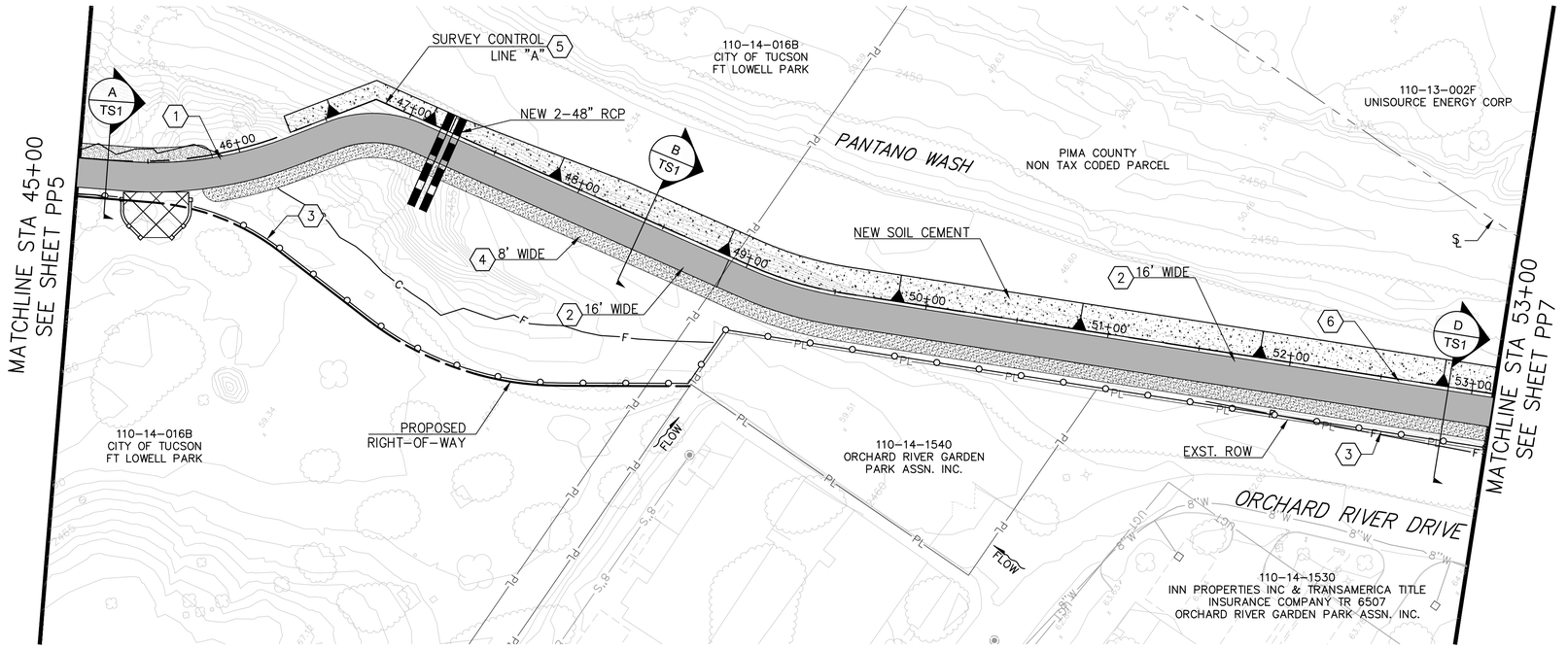
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
(520) 292-2600 (520) 292-1290 (FAX)

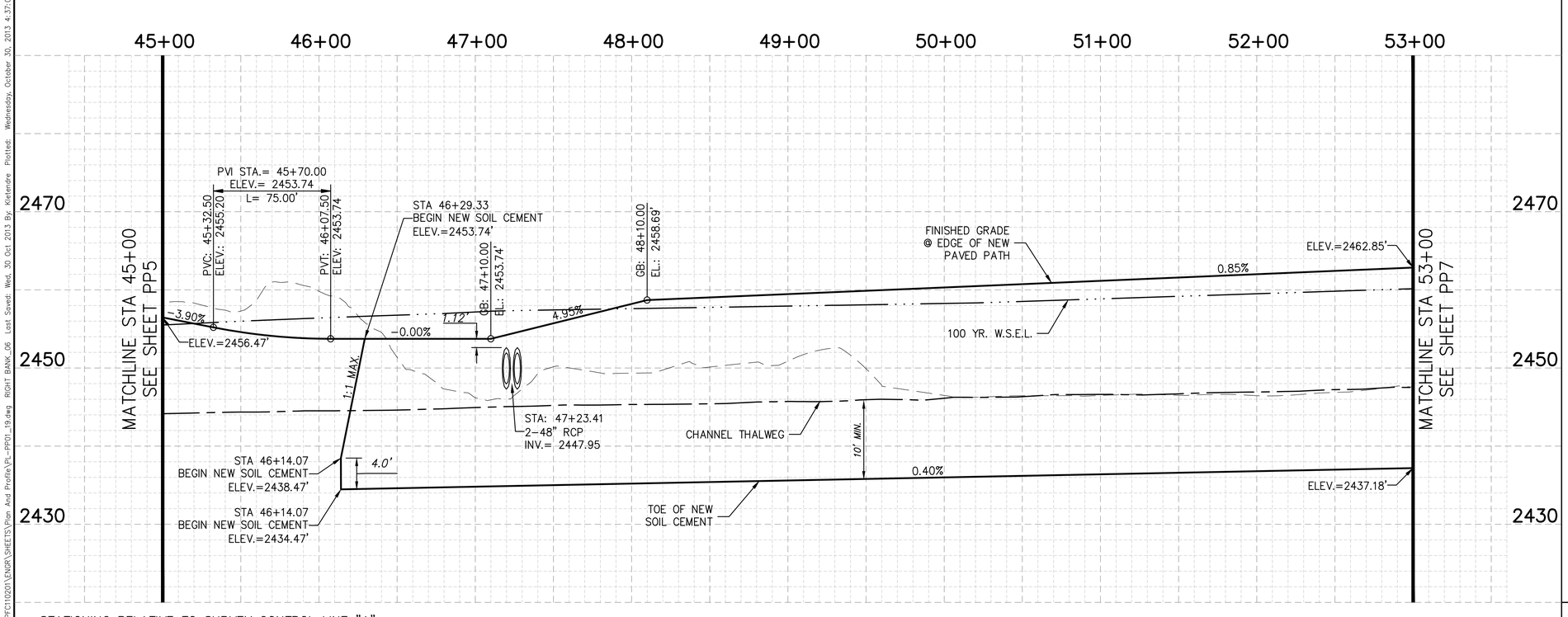
PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

T:\7PFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg RIGHT BANK_05 Last Saved: Wed, 30 Oct 2013 By: Kielendre Plotted: Wednesday, October 30, 2013 4:36:51 PM





STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

KEYNOTES:

1. NEW PAVED PATHWAY ON GRADE, FILL OR CUT PER DETAIL G – SHEET TS2.
2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL J – SHEET TS 2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
6. NEW BARRICADE RAILING PER PC/COT STD. DTL. 105.

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

	DESIGNED:	DRAWN:	CHECKED:	PROJ. ENG.:
DATE	06/2013	06/2013	06/2013	06/2013
	KUL/CRJ/MED	CRJ/KUL	MED	KUL

30% NOT FOR CONSTRUCTION

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333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
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PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

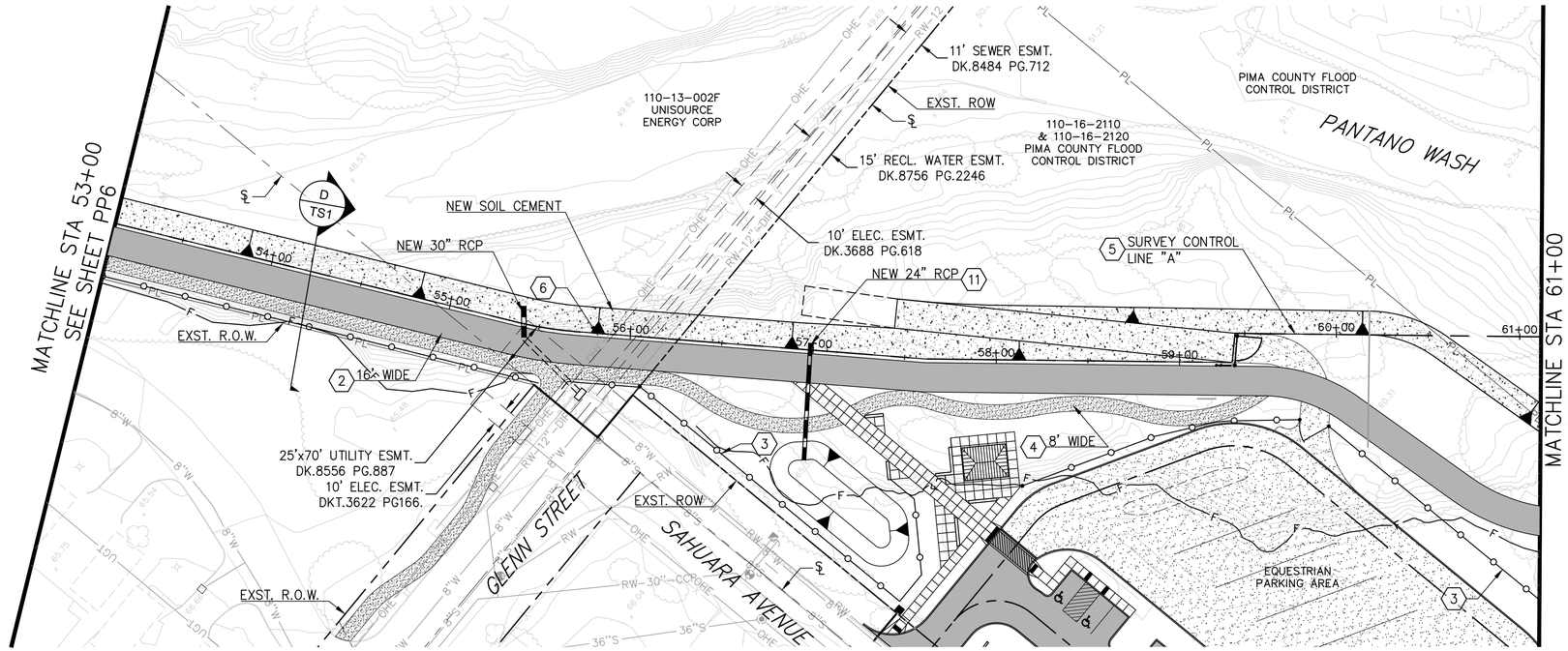
40 0 20 40 60 80

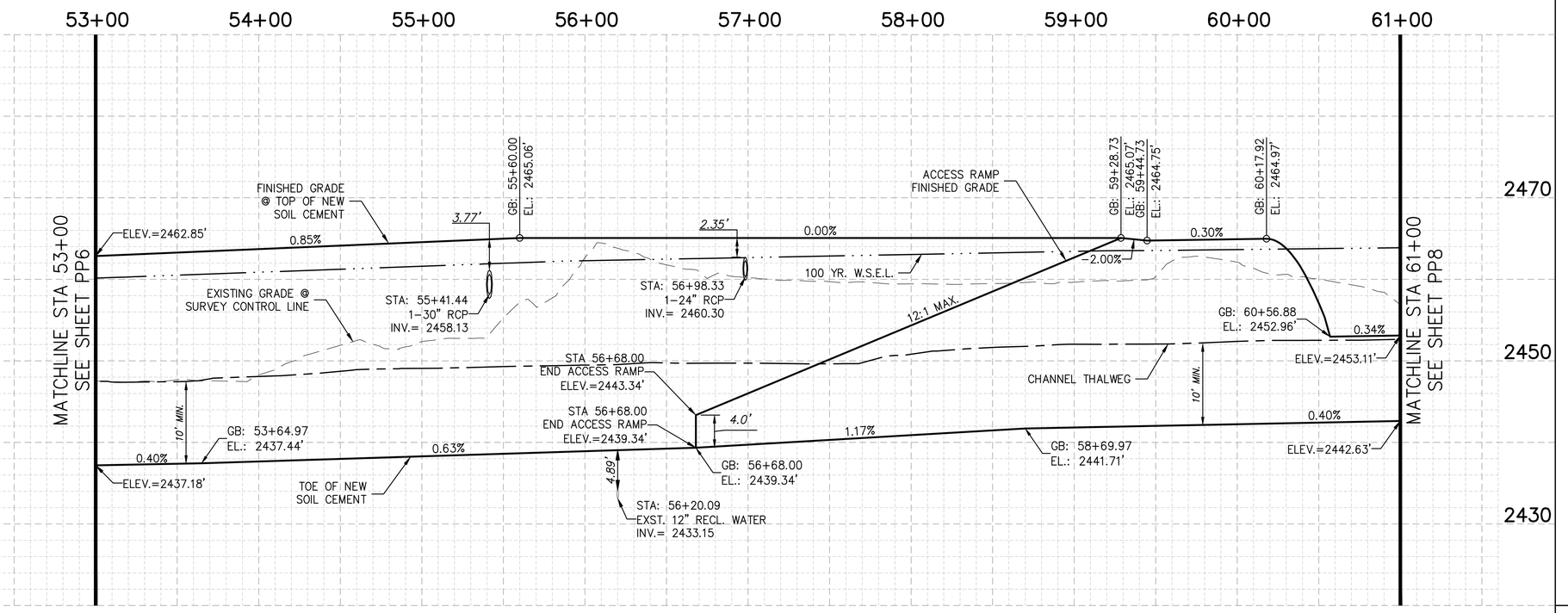
Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP6 OF PP18

T:\7PFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg RIGHT BANK_06 Last Saved: Wed, 30 Oct 2013 By: Kletendre Plotted: Wednesday, October 30, 2013 4:37:06 PM





STATIONING RELATIVE TO SURVEY CONTROL LINE "C"

KEYNOTES:

1. NEW PAVED PATHWAY ON GRADE, FILL OR CUT PER DETAIL G – SHEET TS2.
2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL J – SHEET TS 2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
6. NEW BARRICADE RAILING PER PC/COT STD. DTL. 105
11. LANDSCAPED RETENTION BASIN OVERFLOW AND OUTLET PIPE. SIZE AND ELEVATIONS TO BE DETERMINED DURING FORMAL DESIGN.

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

40 0 20 40 60 80

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

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP7 OF PP18

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

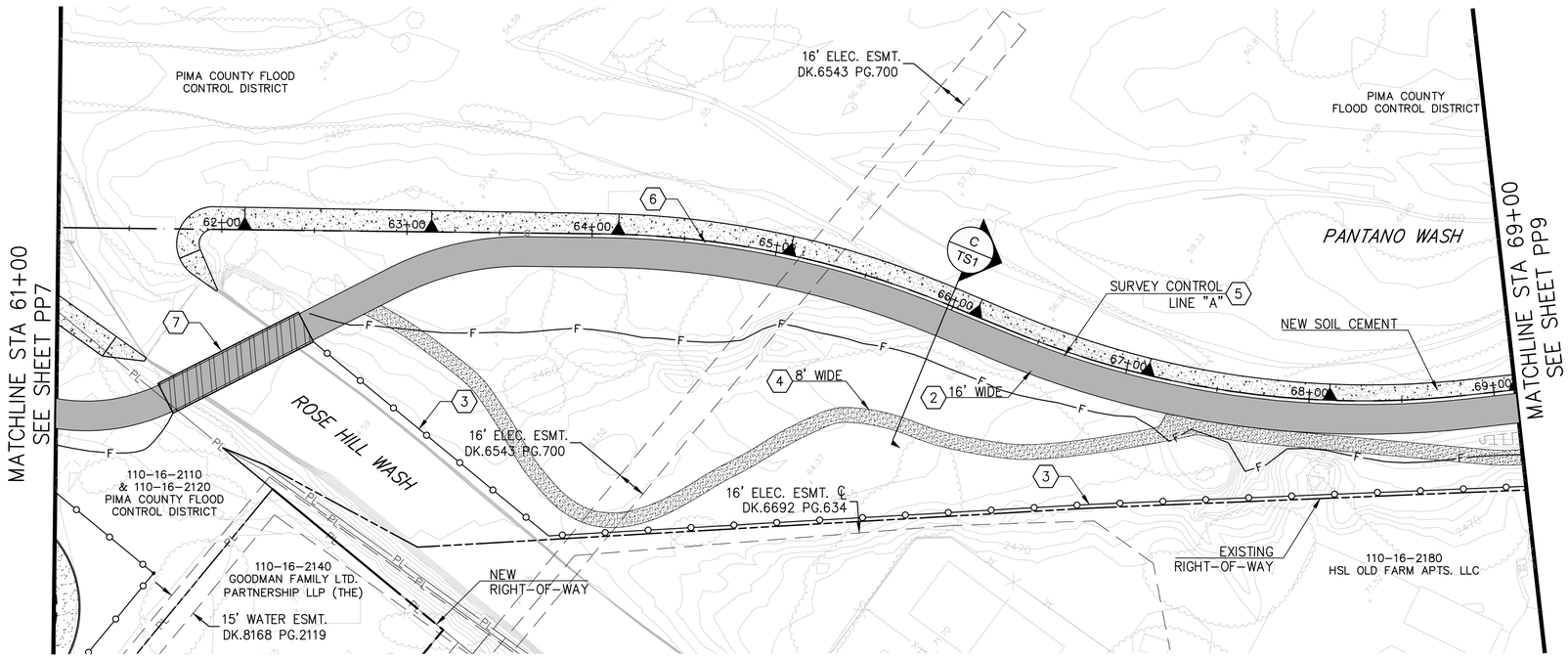
PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

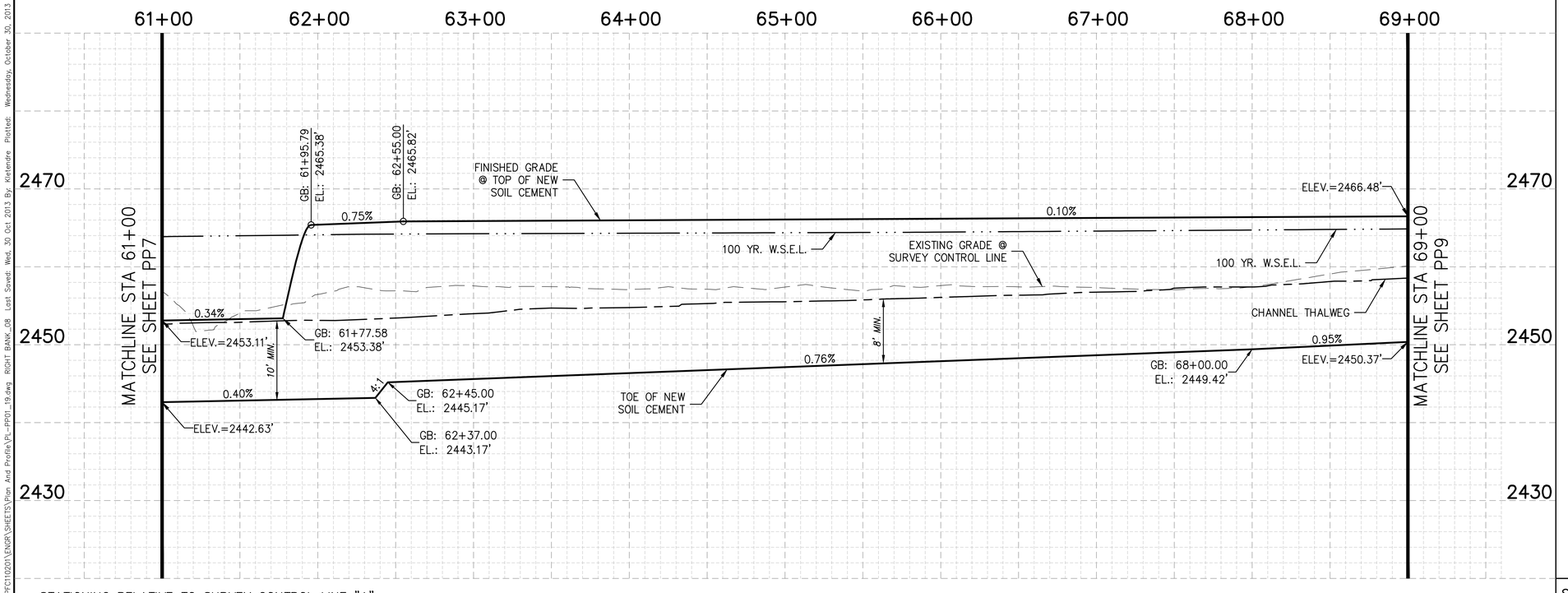
30%
NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
(520) 292-2300 (520) 292-1290 (FAX)

PIMA COUNTY W.O. 5PWFLT

T:\7PFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg RIGHT BANK_07 Last Saved: Wed, 30 Oct 2013 By: Kletendre Plotted: Wednesday, October 30, 2013 4:37:21 PM





STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

KEYNOTES:

2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL J – SHEET TS 2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
6. NEW BARRICADE RAILING PER PC/COT STD. DTL. 105
7. NEW CLEAR-SPAN PEDESTRIAN BRIDGE (16' WIDE AND APPROXIMATELY 85' LONG)

40 0 20 40 60 80

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

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP8 OF PP18

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

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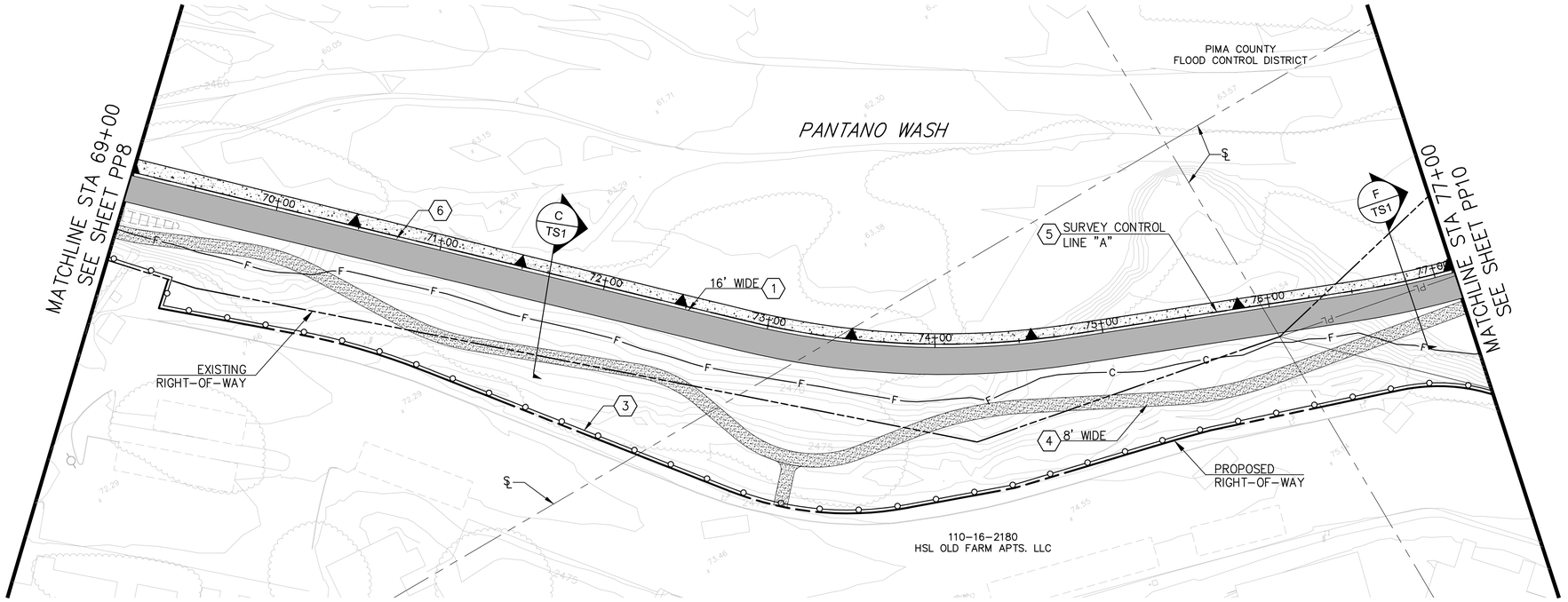
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
(520) 292-2300 (520) 292-1290 (FAX)

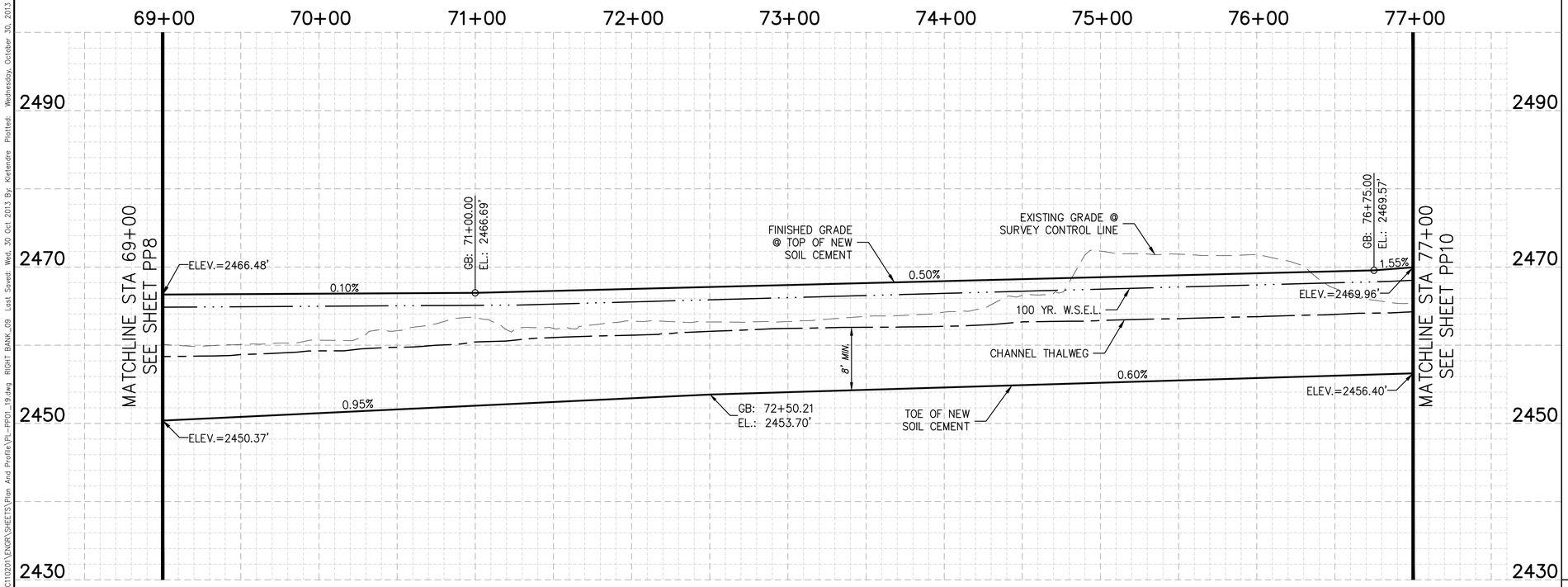
PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE FOR PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4 RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

T:\7PFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg RIGHT BANK_08 Last Saved: Wed, 30 Oct 2013 By: Kletendre Plotted: Wednesday, October 30, 2013 4:37:41 PM





KEYNOTES:

2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL J – SHEET TS 2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
6. NEW BARRICADE RAILING PER PC/COT STD. DTL. 105

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
(520) 292-2300 (520) 292-1290 (FAX)

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

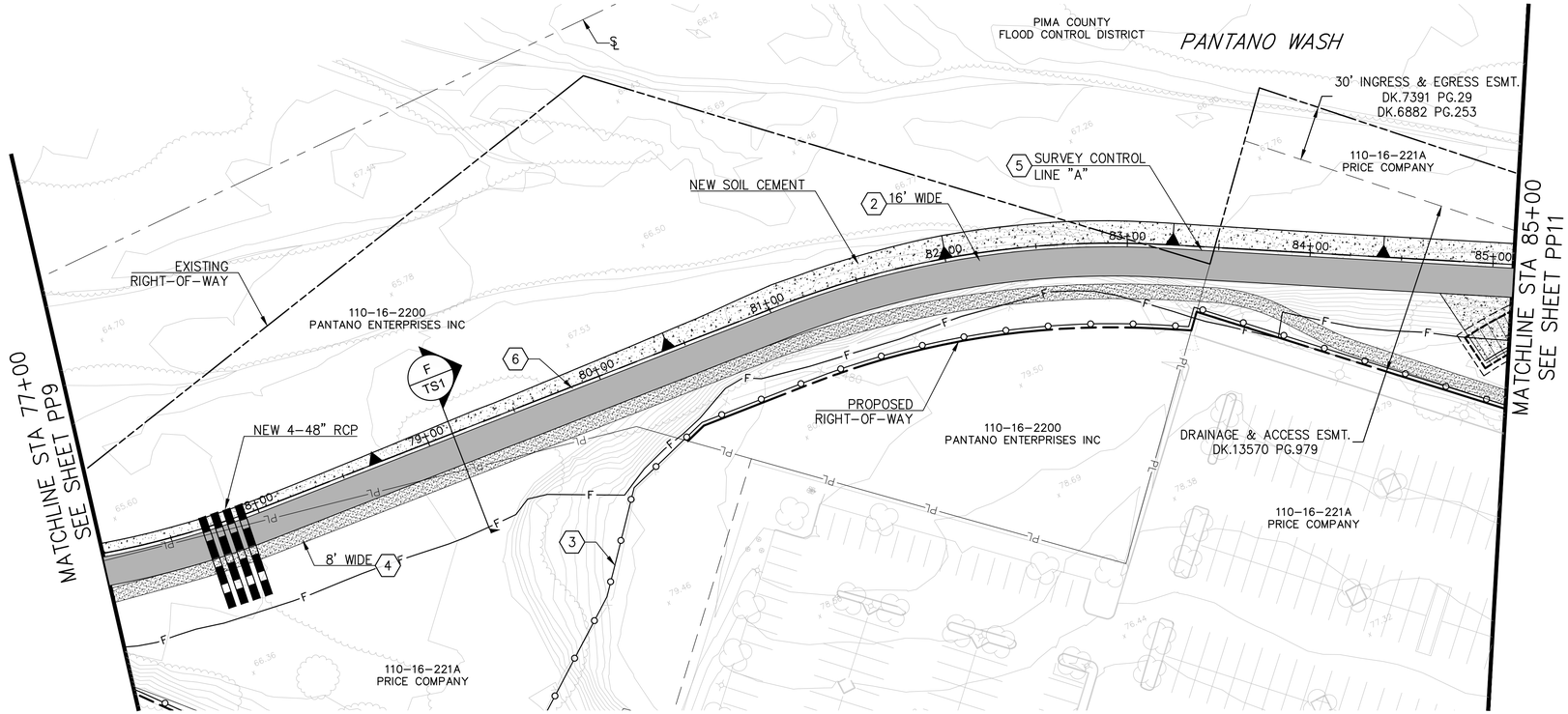
40 0 20 40 60 80

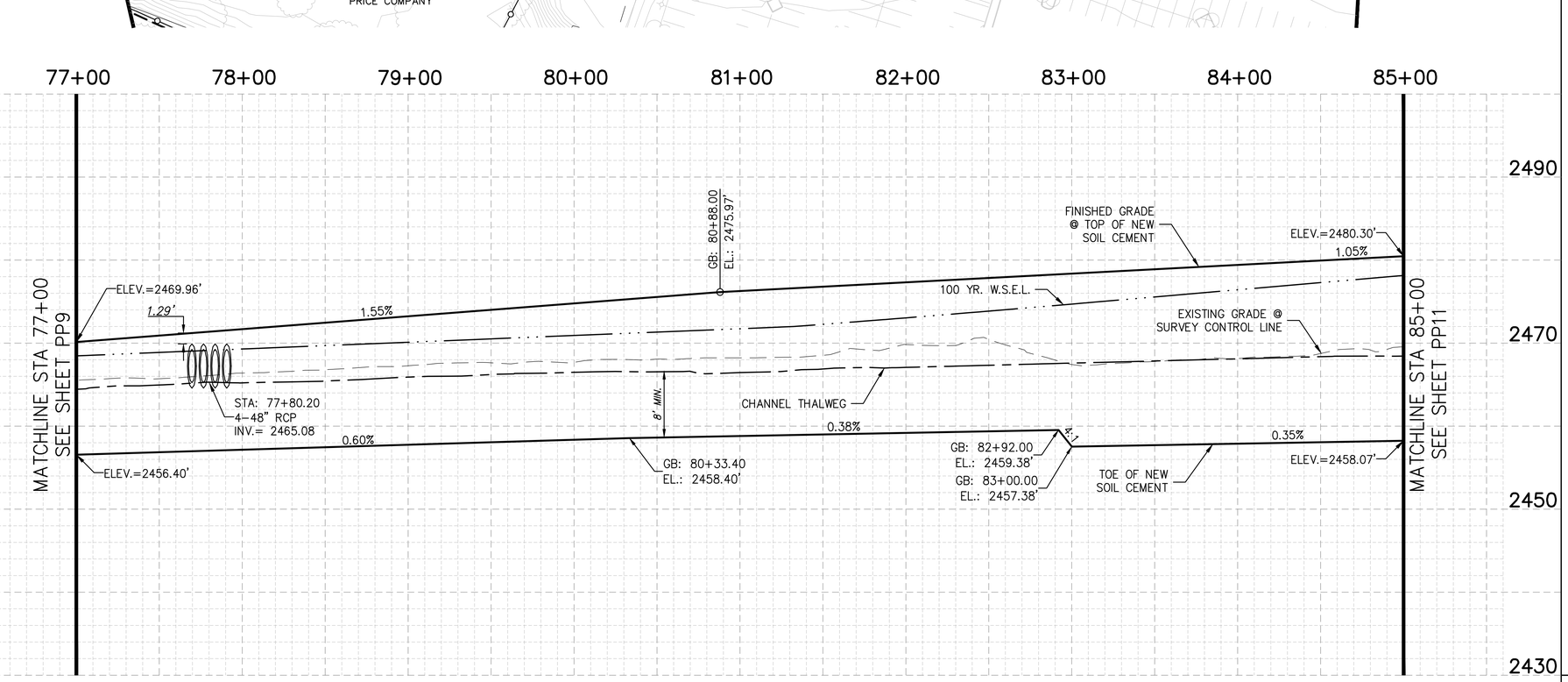
Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP9 OF PP18

T:\7PFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg RIGHT BANK_09 Last Saved: Wed, 30 Oct 2013 By: Kielendre Plotted: Wednesday, October 30, 2013 4:38:01 PM





STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

KEYNOTES:

2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL J – SHEET TS 2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
6. STA 77+00 TO 85+00, NEW BARRICADE RAILING PER PC/COT STD. DTL. 105

40 0 20 40 60 80

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
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In Maricopa County: (602) 263-1100

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP10 OF PP18

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

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PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

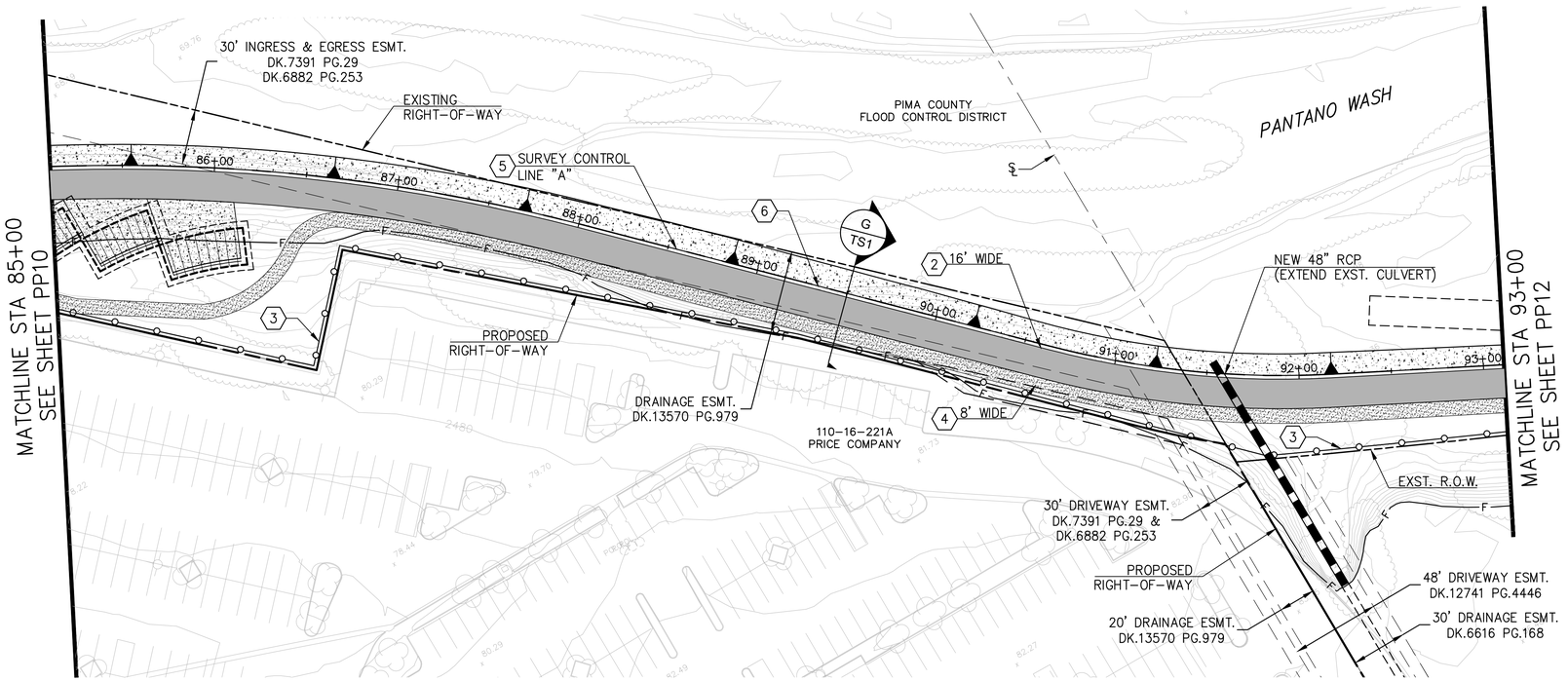
PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

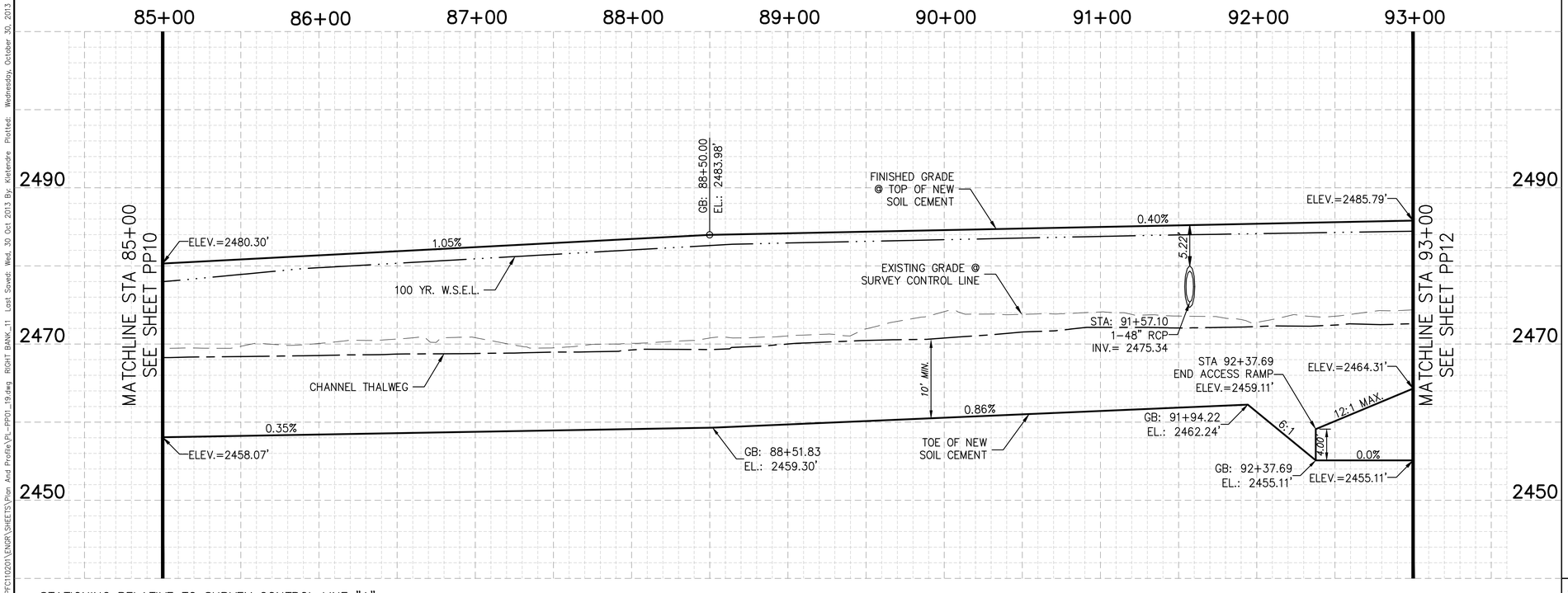
PIMA COUNTY W.O. 5PWFLT

T:\PFFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg RIGHT BANK 10 Last Saved: Wed, 30 Oct 2013 By: Kletendre Plotted: Wednesday, October 30, 2013 4:38:16 PM

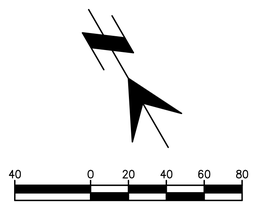
KEYNOTES:

2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL J – SHEET TS 2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
6. STA 85+00 TO 93+00, NEW BARRICADE RAILING PER PC/COT STD. DTL. 105





STATIONING RELATIVE TO SURVEY CONTROL LINE "A"



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Arizona Blue Stake, Inc.
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In Maricopa County: (602) 263-1100

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP11 OF PP18

Page 16 of 45

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

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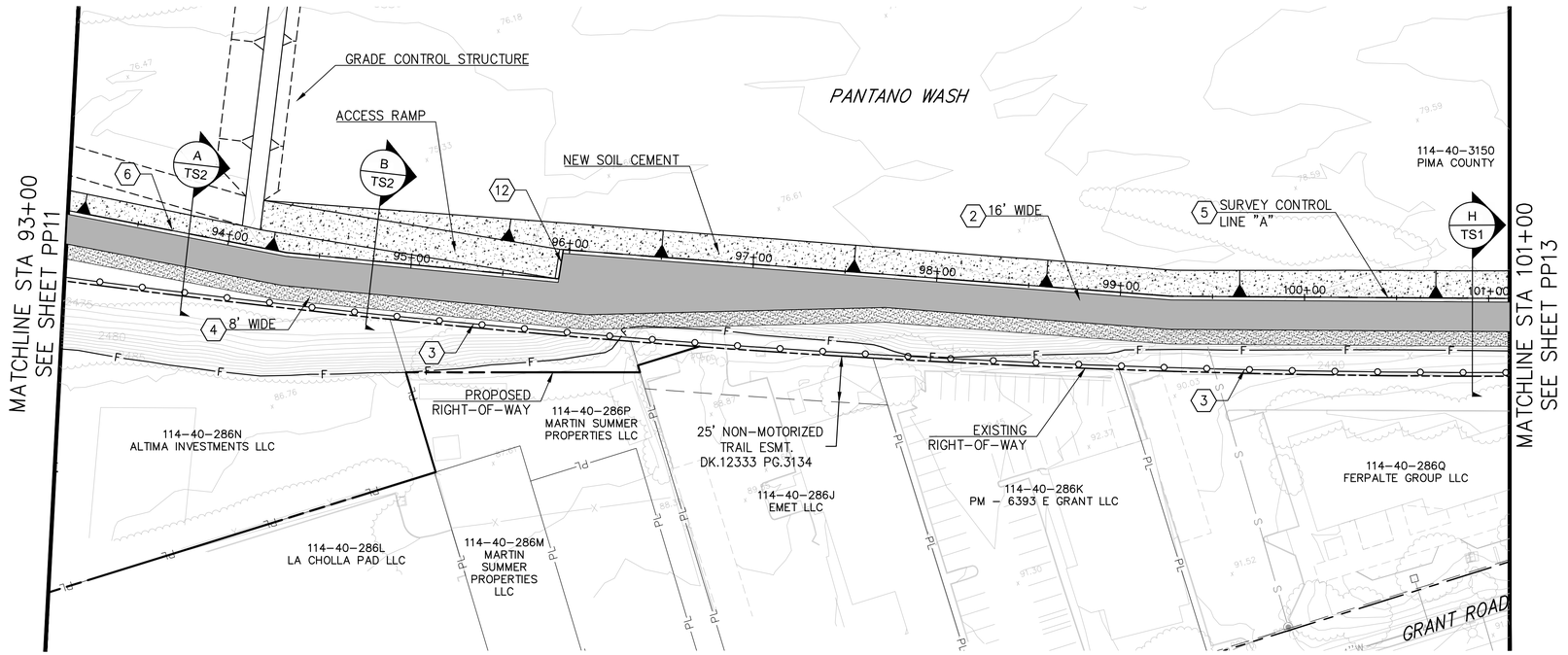
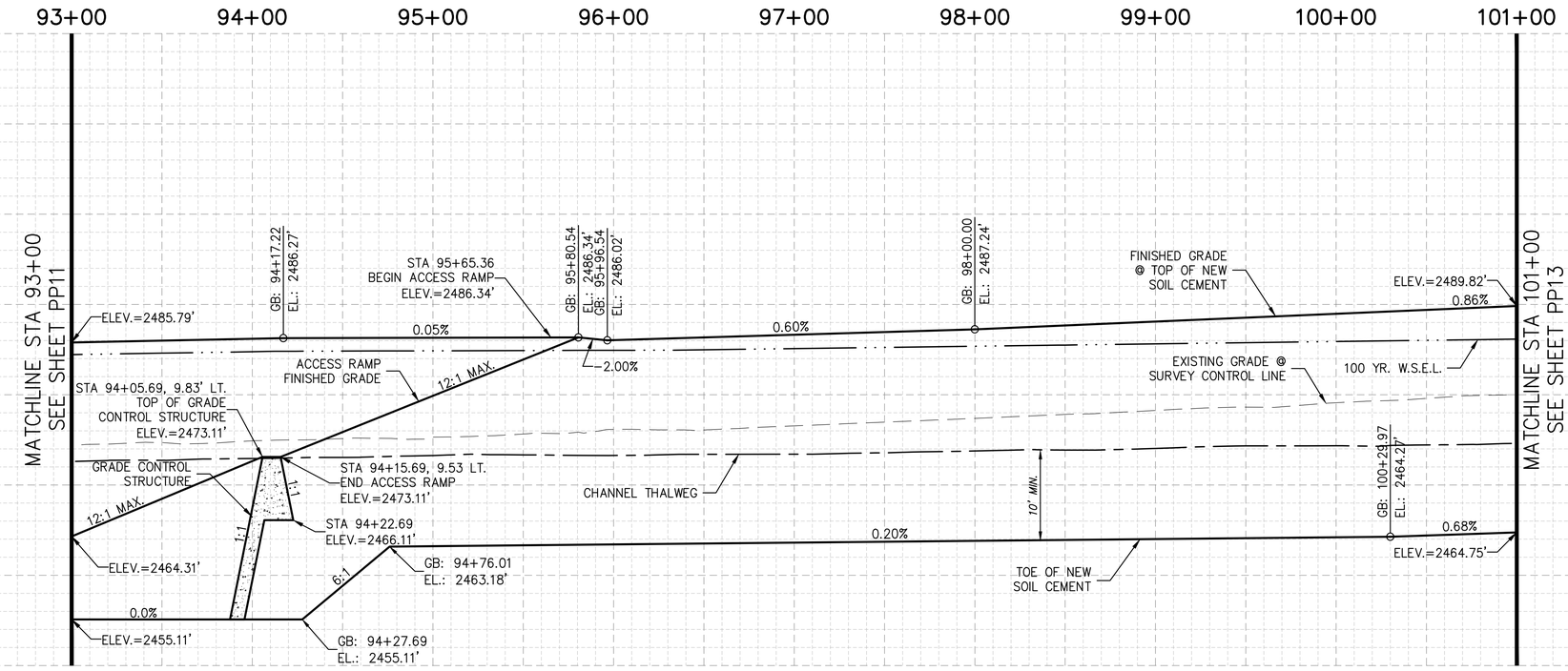
PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

T:\7PFC11020\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg RIGHT BANK_11 Last Saved: Wed, 30 Oct 2013 By: Kletendre Plotted: Wednesday, October 30, 2013 4:44:53 PM





STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

KEYNOTES:

2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL J – SHEET TS 2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
6. STA 93+00 TO 101+00, NEW BARRICADE RAILING PER PC/COT STD. DTL. 105.
12. 16' MAINTENANCE GATE AND EQUESTRIAN STEP-OVER.

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

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PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

Call at least two full working days before you begin excavation.
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SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP12 OF PP18

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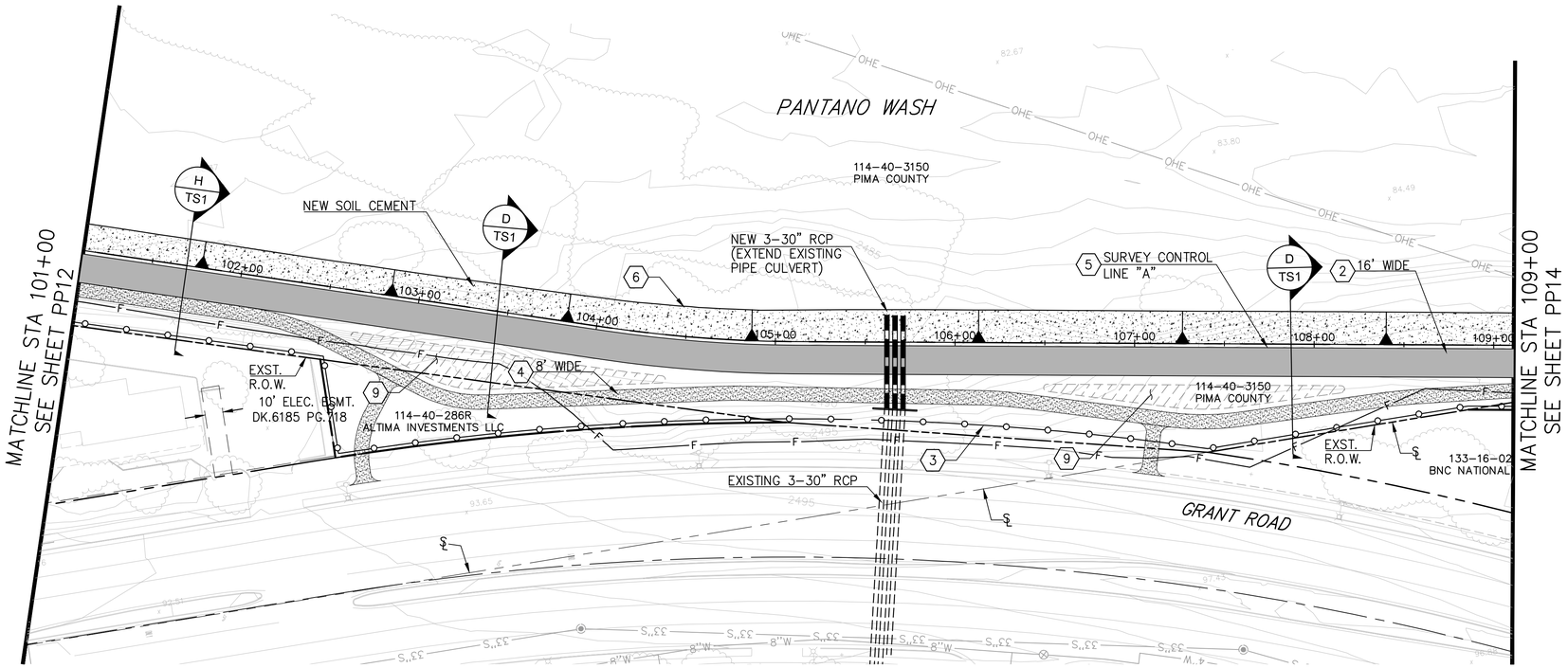

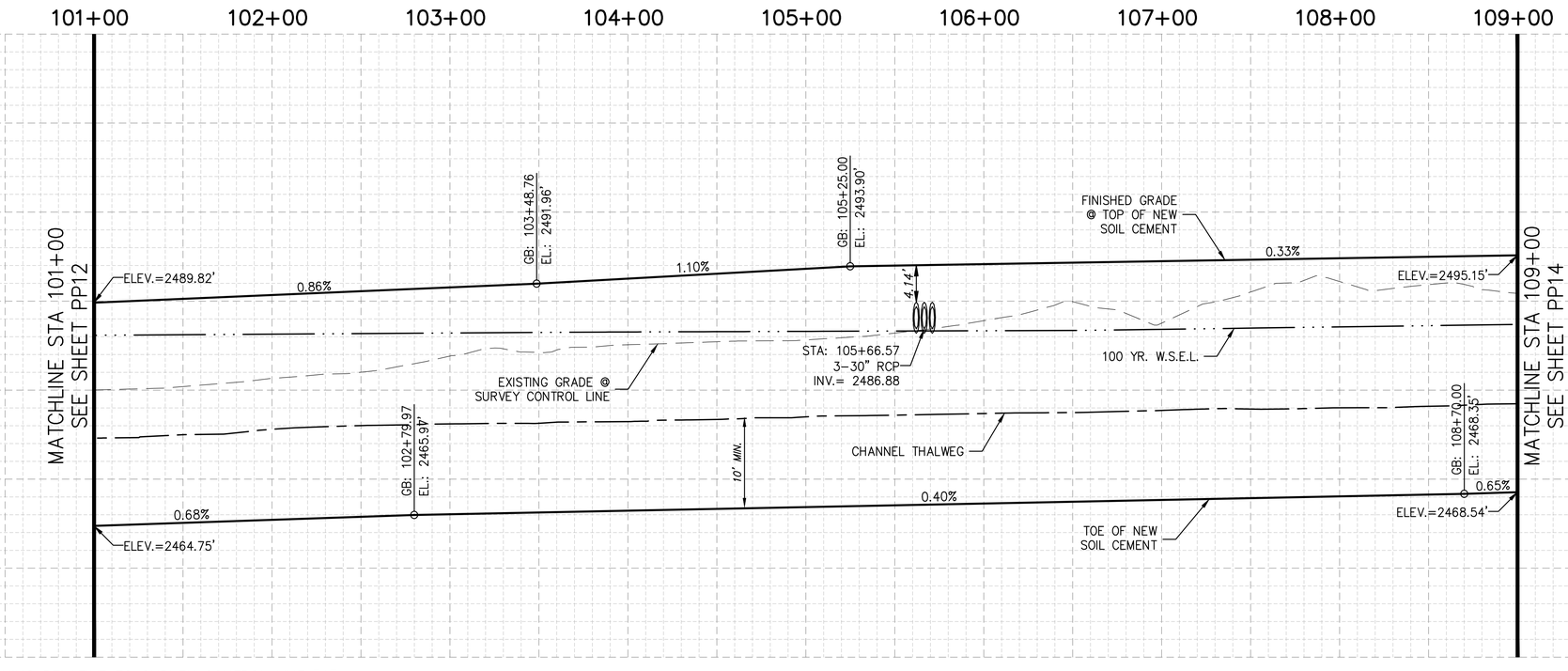

STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

KEYNOTES:

2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL J – SHEET TS 2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
6. STA 101+00 TO 109+00, NEW BARRICADE RAILING PER PC/COT STD. DTL. 105.
9. STORMWATER HARVESTING BASIN TO BE CONSTRUCTED TO EXTENTS SHOWN, BASIN BOTTOM TO BE SET MINIMUM 6" BELOW EDGE ELEVATION OF ADJACENT PAVED AND DG PATHS. TOP OF BASIN TO BE SET BACK A MINIMUM 5' FROM EDGE OF PAVED PATH AND 3' FROM EDGE OF DG PATH AT ALL LOCATIONS.

SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

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PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

40 0 20 40 60 80

Call at least two full working days before you begin excavation.
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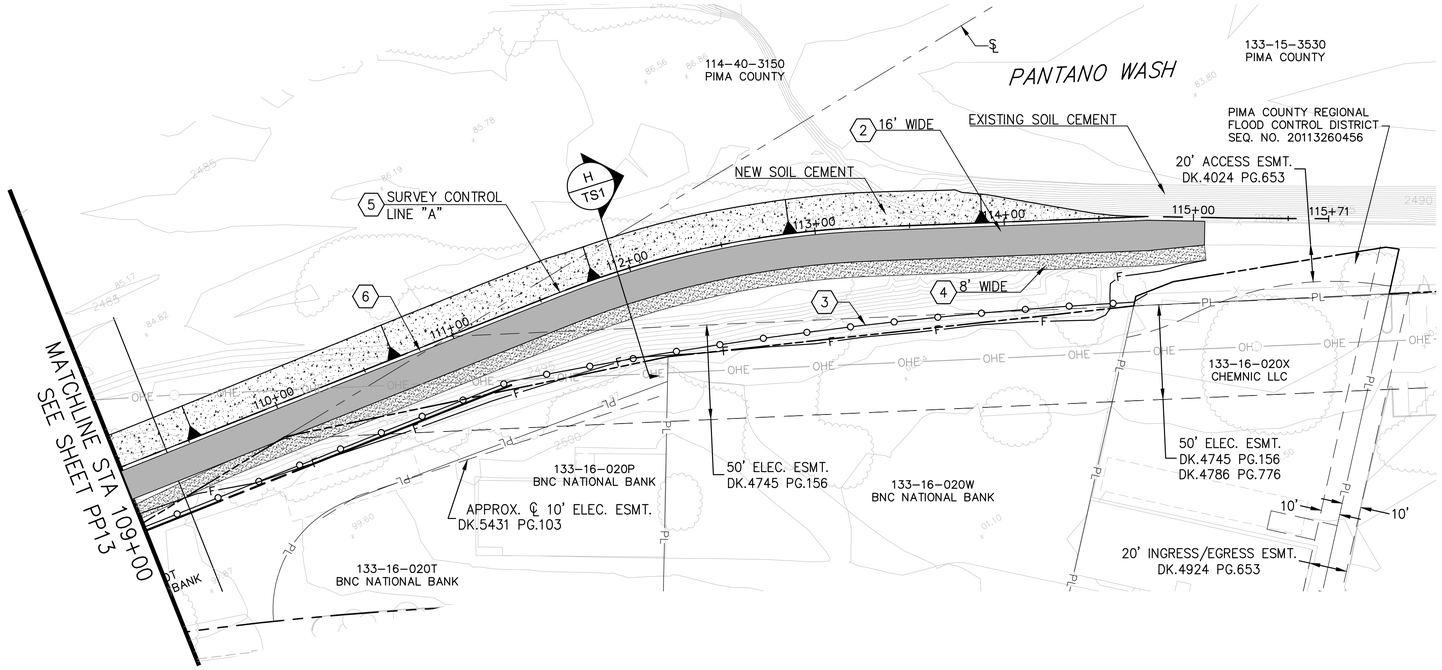
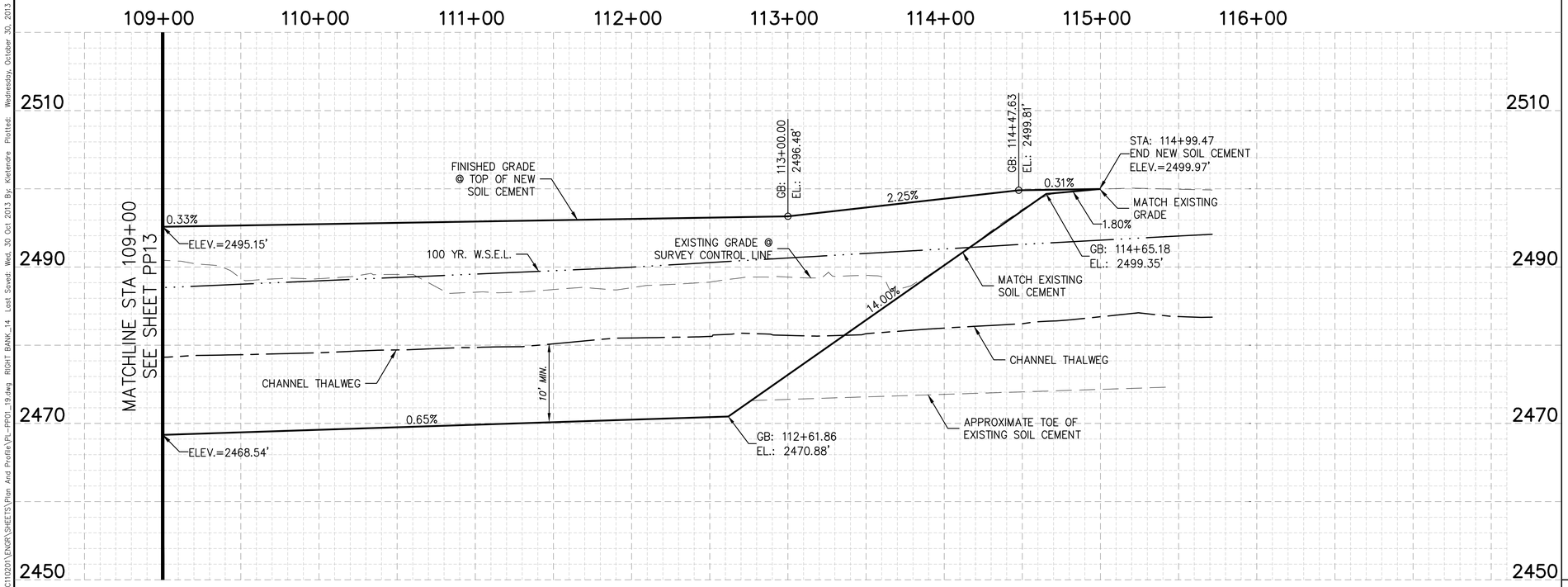
In Maricopa County: (602) 263-1100

SCALES: HORIZ. 1"=40'
VERT. 1"=8'

SHEET PP13 OF PP18

T:\7PFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg RIGHT BANK_13 Last Saved: Wed, 30 Oct 2013 By: Kletendre Plotted: Wednesday, October 30, 2013 4:45:28 PM





STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

KEYNOTES:

2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL J – SHEET TS 2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
6. STA 109+00 TO 114+71, NEW BARRICADE RAILING PER PC/COT STD. DTL. 105.

SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

40 0 20 40 60 80

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In Maricopa County: (602) 263-1100

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PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

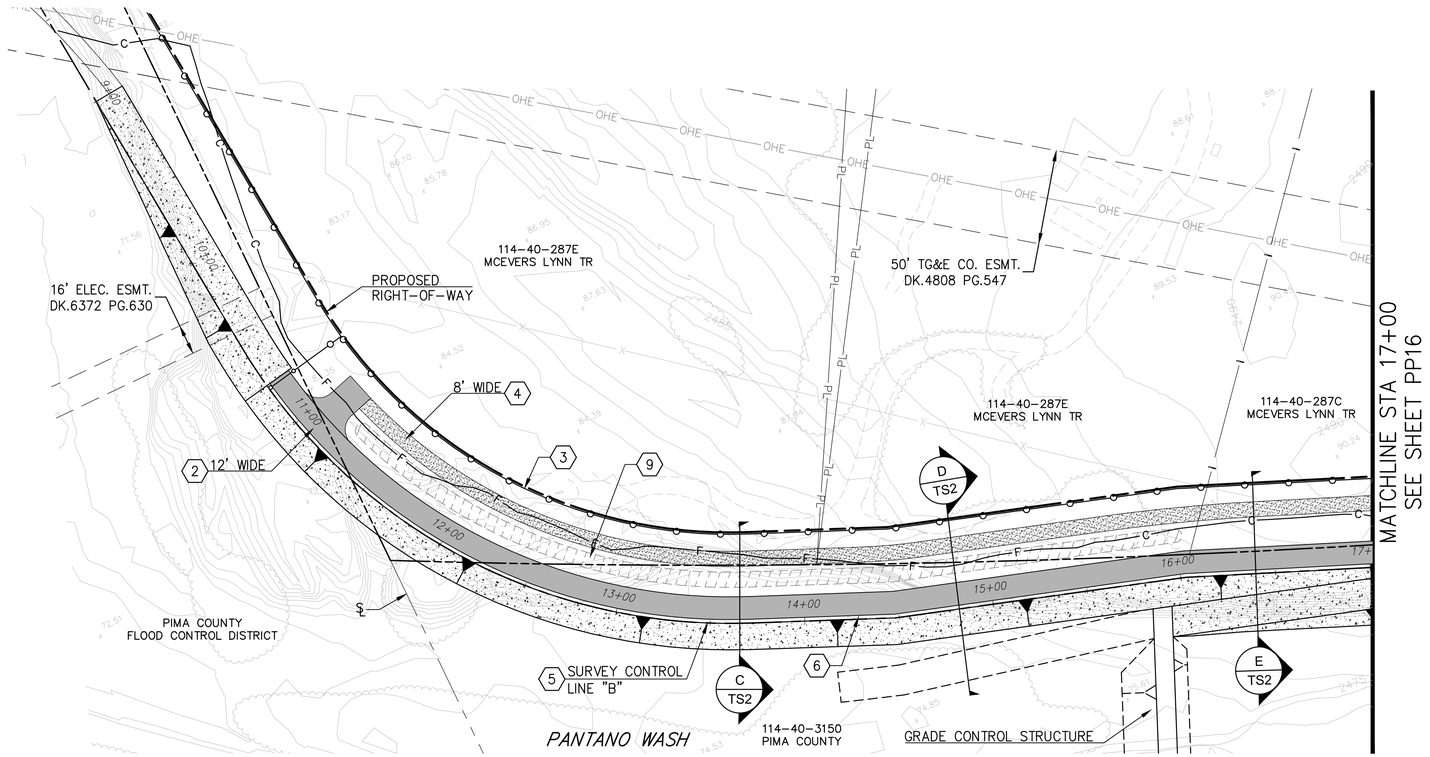
SCALES: HORIZ. 1"=40'
VERT. 1"=8'

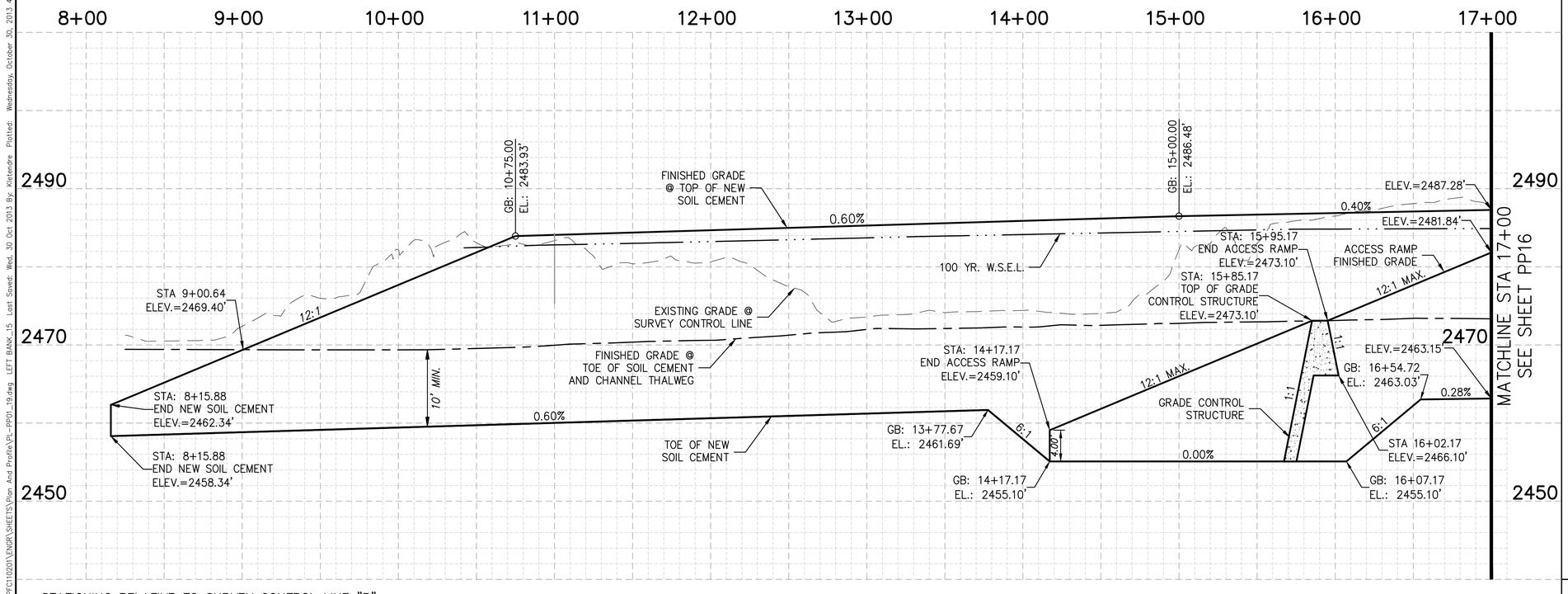
SHEET PP14 OF PP19

T:\7PFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg RIGHT BANK_14 Last Saved: Wed, 30 Oct 2013 By: Kielendre Plotted: Wednesday, October 30, 2013 4:45:43 PM

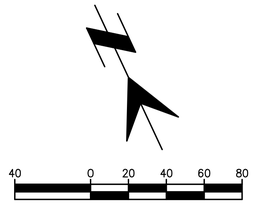
KEYNOTES:

2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL J – SHEET TS 2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
6. STA 8+75 TO 17+00, NEW BARRICADE RAILING PER PC/COT STD. DTL. 105.
9. STORMWATER HARVESTING BASIN TO BE CONSTRUCTED TO EXTENTS SHOWN, BASIN BOTTOM TO BE SET MINIMUM 6" BELOW EDGE ELEVATION OF ADJACENT PAVED AND DG PATHS. TOP OF BASIN TO BE SET BACK A MINIMUM 5' FROM EDGE OF PAVED PATH AND 3' FROM EDGE OF DG PATH AT ALL LOCATIONS.





STATIONING RELATIVE TO SURVEY CONTROL LINE "B"



Call at least two full working days before you begin excavation.
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SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

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PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

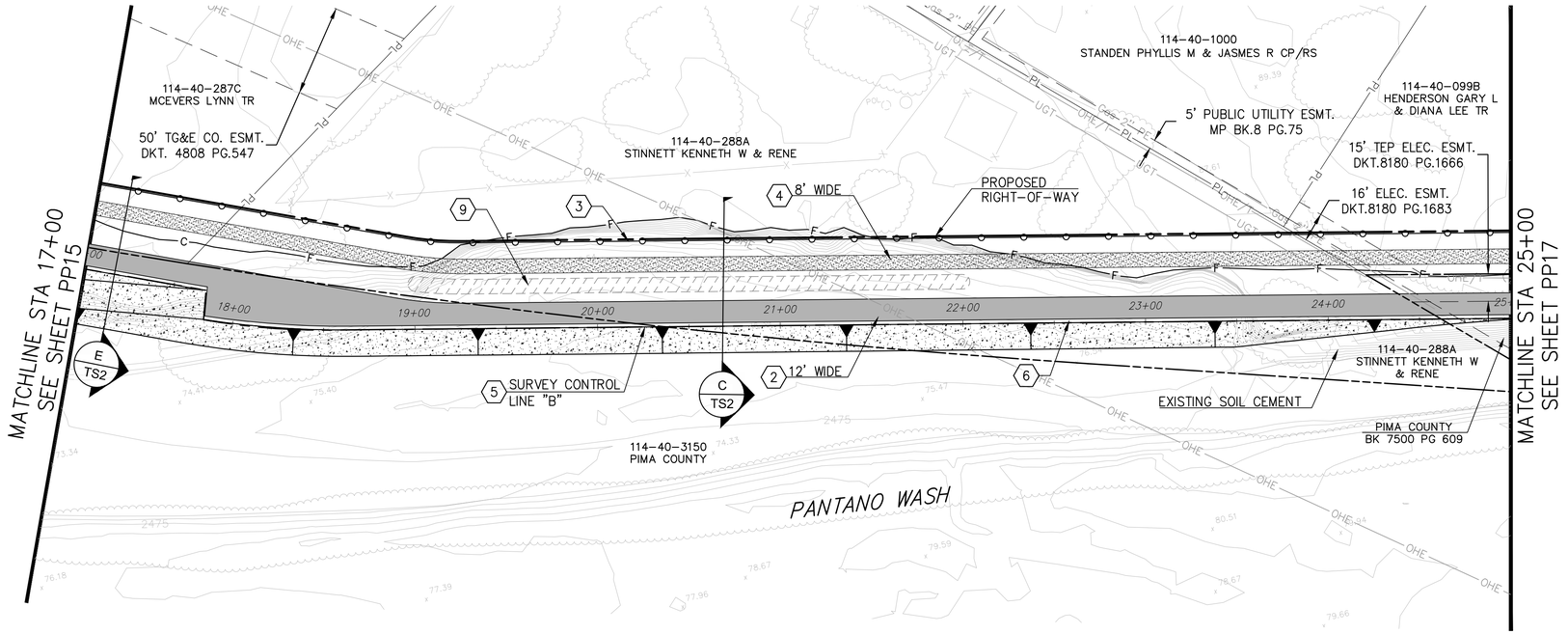
PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
LEFT BANK

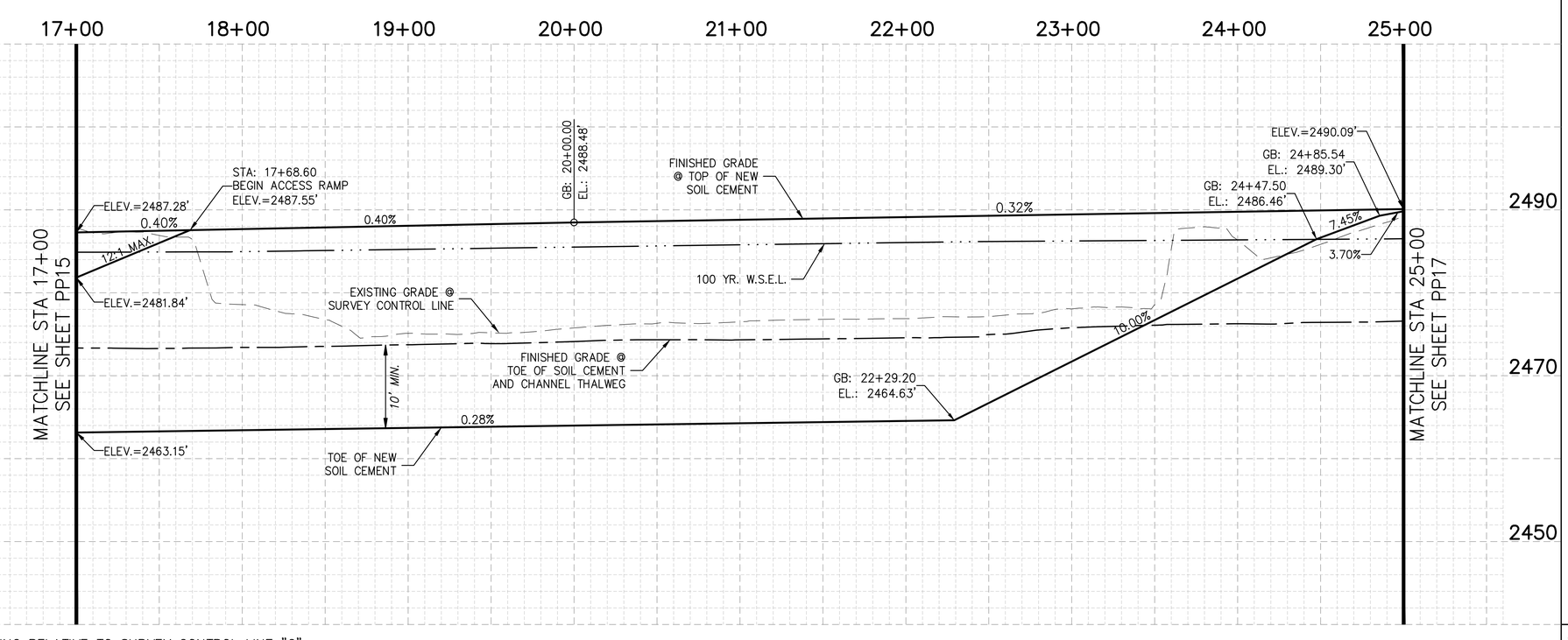
PIMA COUNTY W.O. 5PWFLT

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP15 OF PP19

T:\7PFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg LEFT BANK_15 Last Saved: Wed, 30 Oct 2013 By: Kletendre Plotted: Wednesday, October 30, 2013 4:49:33 PM





STATIONING RELATIVE TO SURVEY CONTROL LINE "C"

KEYNOTES:

2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL J – SHEET TS 2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
6. STA 17+00 TO 25+00, NEW BARRICADE RAILING PER PC/COT STD. DTL. 105.
9. STORMWATER HARVESTING BASIN TO BE CONSTRUCTED TO EXTENTS SHOWN, BASIN BOTTOM TO BE SET MINIMUM 6" BELOW EDGE ELEVATION OF ADJACENT PAVED AND DG PATHS. TOP OF BASIN TO BE SET BACK A MINIMUM 5' FROM EDGE OF PAVED PATH AND 3' FROM EDGE OF DG PATH AT ALL LOCATIONS.

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP16 OF PP19

40 0 20 40 60 80

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SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	KUL/CRJ/MED
DRAWN:	CRJ/KUL
CHECKED:	MED
PROJ. ENG.:	KUL

DATE
06/2013
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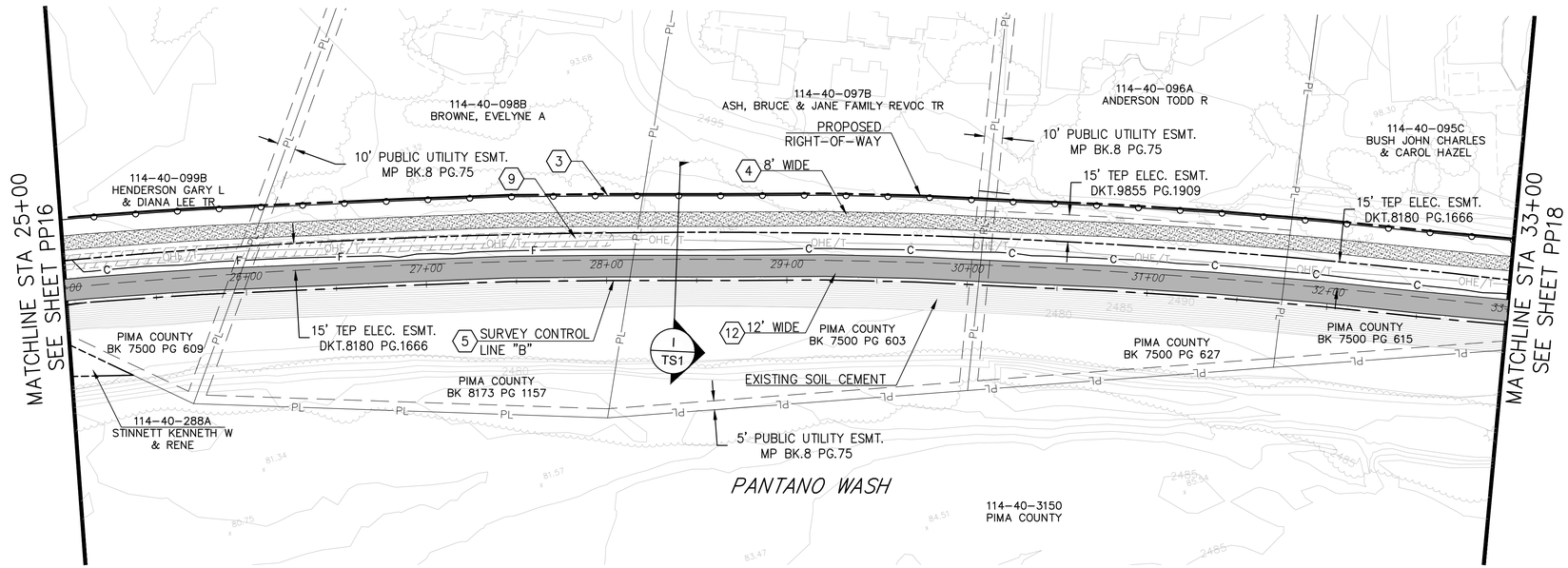
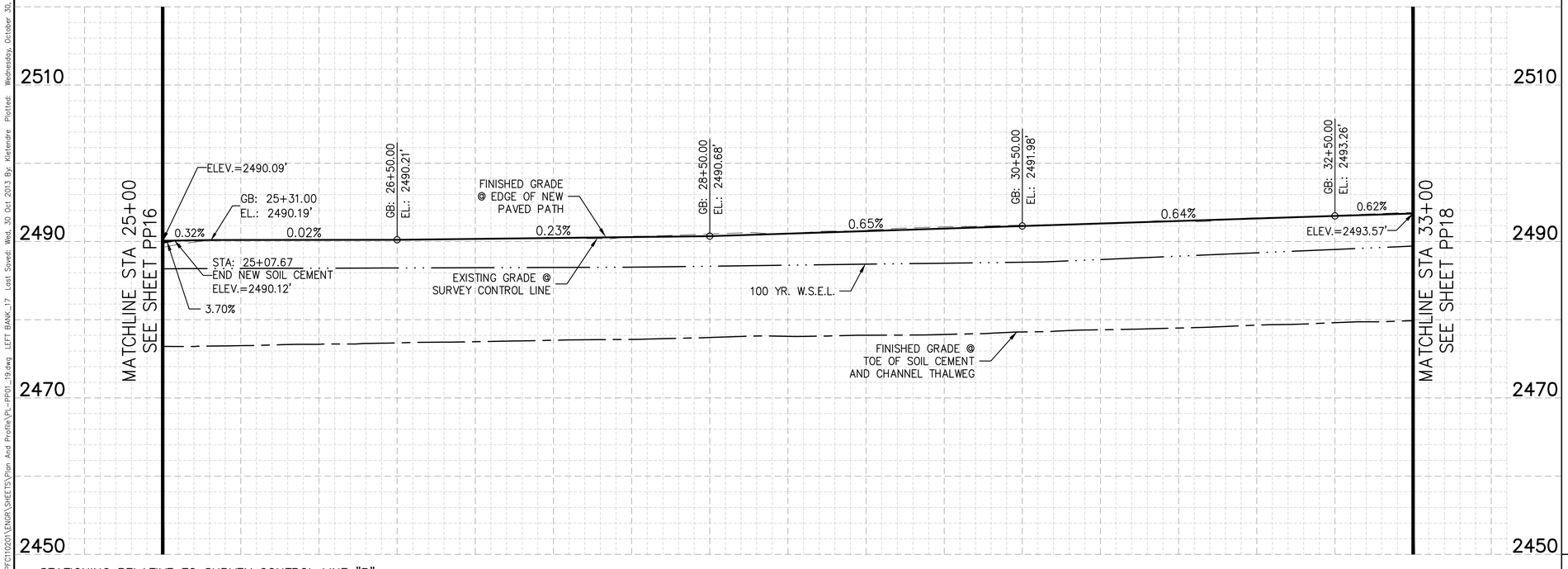
PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
LEFT BANK

PIMA COUNTY W.O. 5PWFLT

T:\PFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg LEFT BANK_16 Last Saved: Wed, 30 Oct 2013 By: Klettendre Plotted: Wednesday, October 30, 2013 4:49:47 PM





STATIONING RELATIVE TO SURVEY CONTROL LINE "B"

KEYNOTES:

2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL J – SHEET TS 2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
6. STA 25+00 TO 33+00, NEW BARRICADE RAILING PER PC/COT STD. DTL. 105.
9. STORMWATER HARVESTING BASIN TO BE CONSTRUCTED TO EXTENTS SHOWN, BASIN BOTTOM TO BE SET MINIMUM 6" BELOW EDGE ELEVATION OF ADJACENT PAVED AND DG PATHS. TOP OF BASIN TO BE SET BACK A MINIMUM 5' FROM EDGE OF PAVED PATH AND 3' FROM EDGE OF DG PATH AT ALL LOCATIONS.
12. NEW PAVED PATHWAY ON EXISTING SOIL CEMENT PER DETAIL G – SHEET TS 2.

SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

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PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE
FOR
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AND RIVER PARK – PHASE 3 & 4
LEFT BANK

PIMA COUNTY W.O. 5PWFLT

40 0 20 40 60 80

Call at least two full working days before you begin excavation.
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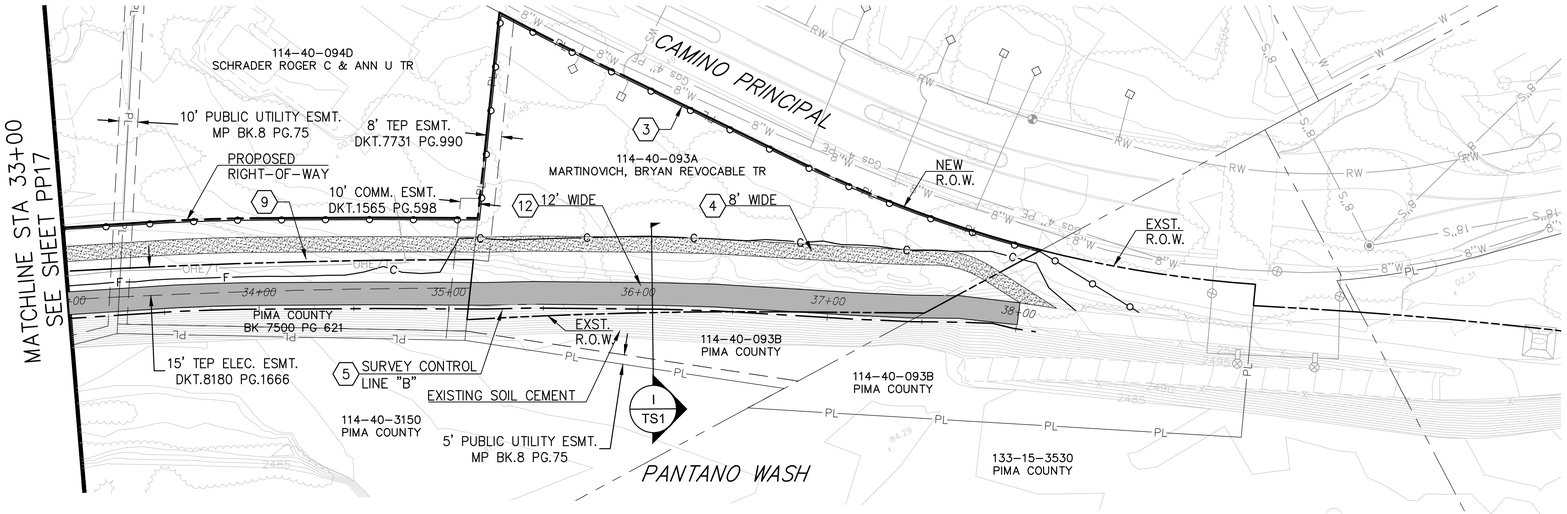
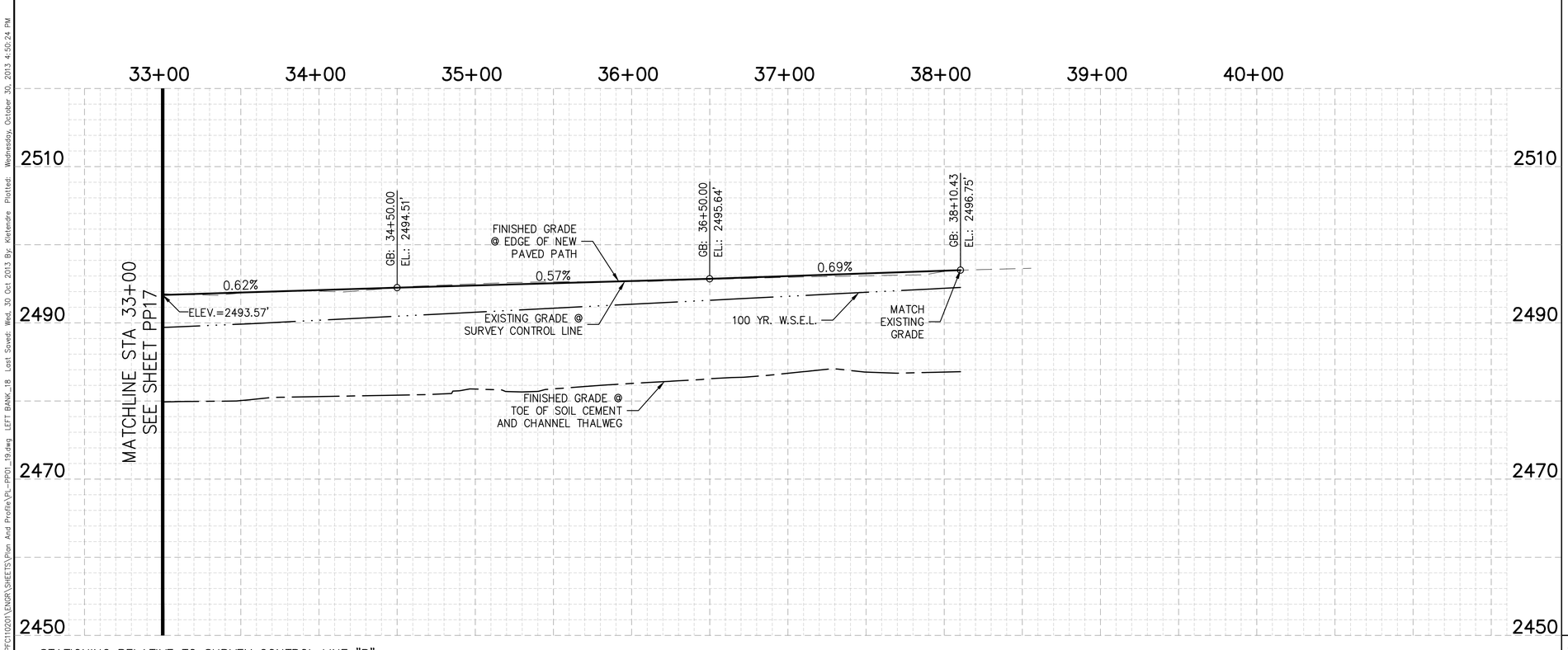
In Maricopa County: (602) 263-1100

SCALES: HORIZ. 1"=40'
VERT. 1"=8'

SHEET PP17 OF PP19

T:\PFC110201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg LEFT BANK_17 Last Saved: Wed, 30 Oct 2013 By: Kletendre Plotted: Wednesday, October 30, 2013 4:50:04 PM





KEYNOTES:

2. NEW PAVED PATHWAY ON SOIL CEMENT PER DETAIL J – SHEET TS 2.
3. NEW POST AND CABLE BARRIER.
4. DECOMPOSED GRANITE (DG) PATHWAY ON GRADE, FILL OR CUT PER DETAIL H – SHEET TS2.
5. SURVEY CONTROL TO BE BASED ON PROJECT RECORD OF SURVEY. SEE APPENDIX B – BASIS OF DESIGN REPORT.
6. STA 33+00 TO 37+95, NEW BARRICADE RAILING PER PC/COT STD. DTL. 105.
9. STORMWATER HARVESTING BASIN TO BE CONSTRUCTED TO EXTENTS SHOWN, BASIN BOTTOM TO BE SET MINIMUM 6" BELOW EDGE ELEVATION OF ADJACENT PAVED AND DG PATHS. TOP OF BASIN TO BE SET BACK A MINIMUM 5' FROM EDGE OF PAVED PATH AND 3' FROM EDGE OF DG PATH AT ALL LOCATIONS.
12. NEW PAVED PATHWAY ON EXISTING SOIL CEMENT PER DETAIL G – SHEET TS 2.

SUZANNE SHIELDS, P.E., DIRECTOR

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

40 0 20 40 60 80

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

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
(520) 292-2400 (520) 292-1290 (FAX)

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLAN AND PROFILE
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK – PHASE 3 & 4
LEFT BANK

PIMA COUNTY W.O. 5PWFLT

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET PP18 OF PP19

T:\PFC\10201\ENGR\SHEETS\Plan And Profile\PL-PP01_19.dwg LEFT BANK_18 Last Saved: Wed, 30 Oct 2013 By: Kletendre Plotted: Wednesday, October 30, 2013 4:50:24 PM

KEY NOTES:

1. PAVED MULTI-USE PATH (ASPHALT, N. BANK = 12' WIDE, S. BANK = 16' WIDE)
2. SOFT-SURFACE PATH (DECOMPOSED GRANITE, 8' TO 10' WIDE)
3. SOFT-SURFACE SHOULDER (DECOMPOSED GRANITE, 4' TO 10' WIDE)
4. SINGLE-TRACK TRAIL (NATIVE SOIL SURFACE, ± 4' WIDE)
5. ACCESS / EGRESS RAMP TO CHANNEL (SOIL CEMENT)
6. GRADE CONTROL STRUCTURE (SOIL CEMENT)
7. IMPROVED RAMP TO GRAYCROFT ROAD UNDERPASS
8. EXISTING RAMP TO TANQUE VERDE ROAD UNDERPASS
9. BICYCLE / PEDESTRIAN BRIDGE OR BOX CULVERT AT ROSE HILL WASH
10. EXISTING PAVED MULTI-USE PATH (ASPHALT, 12' WIDE)
11. PRIMARY STAGING AREA AT GLENN STREET / SAHARA AVENUE (SEE ENLARGED PLAN)
12. ECOSYSTEM RESTORATION AREA
13. BICYCLE / PEDESTRIAN ACCESS GATE (IN POST-&-CABLE BARRIER) FROM ADJACENT PROPERTY
14. TRAILSIDE REST AREA WITH BENCHES AND RAMADA (SEE ENLARGED PLAN)
15. CONNECTION TO FORT LOWELL PARK (SEE ENLARGED PLAN)
16. ENTRY MONUMENT SIGN
17. PRESERVED NATIVE VEGETATION AND NEW LANDSCAPE PLANTINGS
18. SOIL CEMENT BANK PROTECTION
19. EQUESTRIAN ACCESS RAMP
20. CONNECTION TO GRANT ROAD SIDEWALK
21. ALTERNATE EQUESTRIAN STAGING AREA

NORTH

100' 0 100' 200'

SCALE: 1"= 100'

PUBLIC FACILITIES MASTER PLAN - AREA 1
SCALE: 1" = 100'-0"

SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	DKM/SRM
DRAWN:	SRM/PJB
CHECKED:	DKM
PROJ. ENG.:	DKM/SRM

DATE
05/2013

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PUBLIC FACILITIES MASTER PLAN
FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK PHASE 3 AND 4

McGann & Associates
Landscape Architects and Planners
6944 North Oracle Road, Suite 210
Tucson, Arizona 85704
Telephone: (520) 297-9540 Fax: (520) 297-9545

PRELIMINARY NOT FOR CONSTRUCTION

PIMA COUNTY W.O. 5SERAJ

SCALES:	HORIZ.
	VERT.

SHEET L-1 OF

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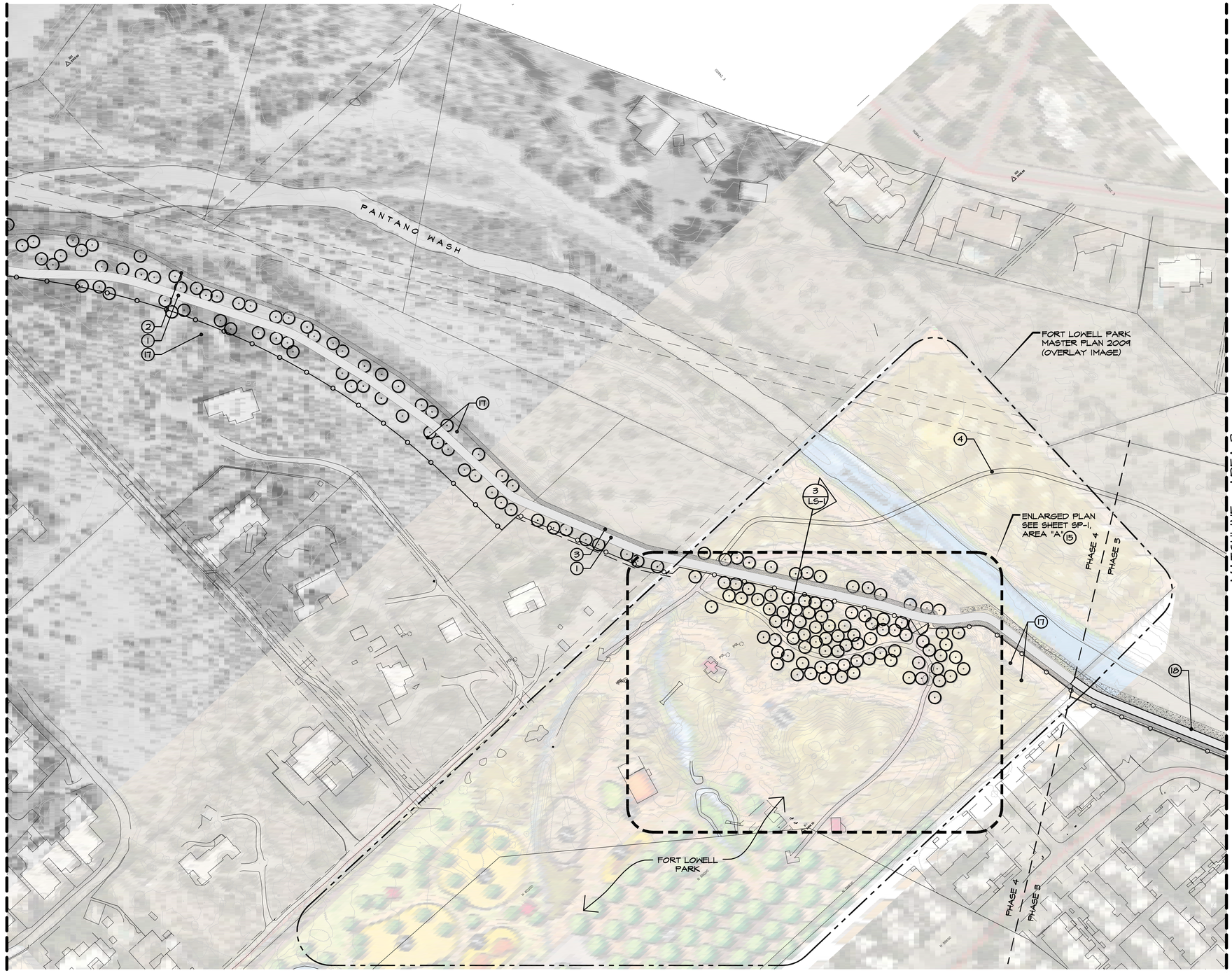

KEY NOTES:

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6. GRADE CONTROL STRUCTURE (SOIL CEMENT)
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18. SOIL CEMENT BANK PROTECTION
19. EQUESTRIAN ACCESS RAMP
20. CONNECTION TO GRANT ROAD SIDEWALK
21. ALTERNATE EQUESTRIAN STAGING AREA

PUBLIC FACILITIES MASTER PLAN - AREA 2
SCALE: 1" = 100'-0"

SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	DKM/SRM
DRAWN:	SRM/PJB
CHECKED:	DKM
PROJ. ENG.:	DKM/SRM

DATE: 05/2013

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

PRELIMINARY NOT FOR CONSTRUCTION

McGann & Associates
Landscape Architects and Planners
6874 North Oracle Road, Suite 210
Tucson, Arizona 85704
Telephone: (520) 297-9540 Fax: (520) 297-9545

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PUBLIC FACILITIES MASTER PLAN
FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK PHASE 3 AND 4

PIMA COUNTY W.O. 5SERAJ

SCALES: HORIZ. / VERT.

SHEET L-2 OF

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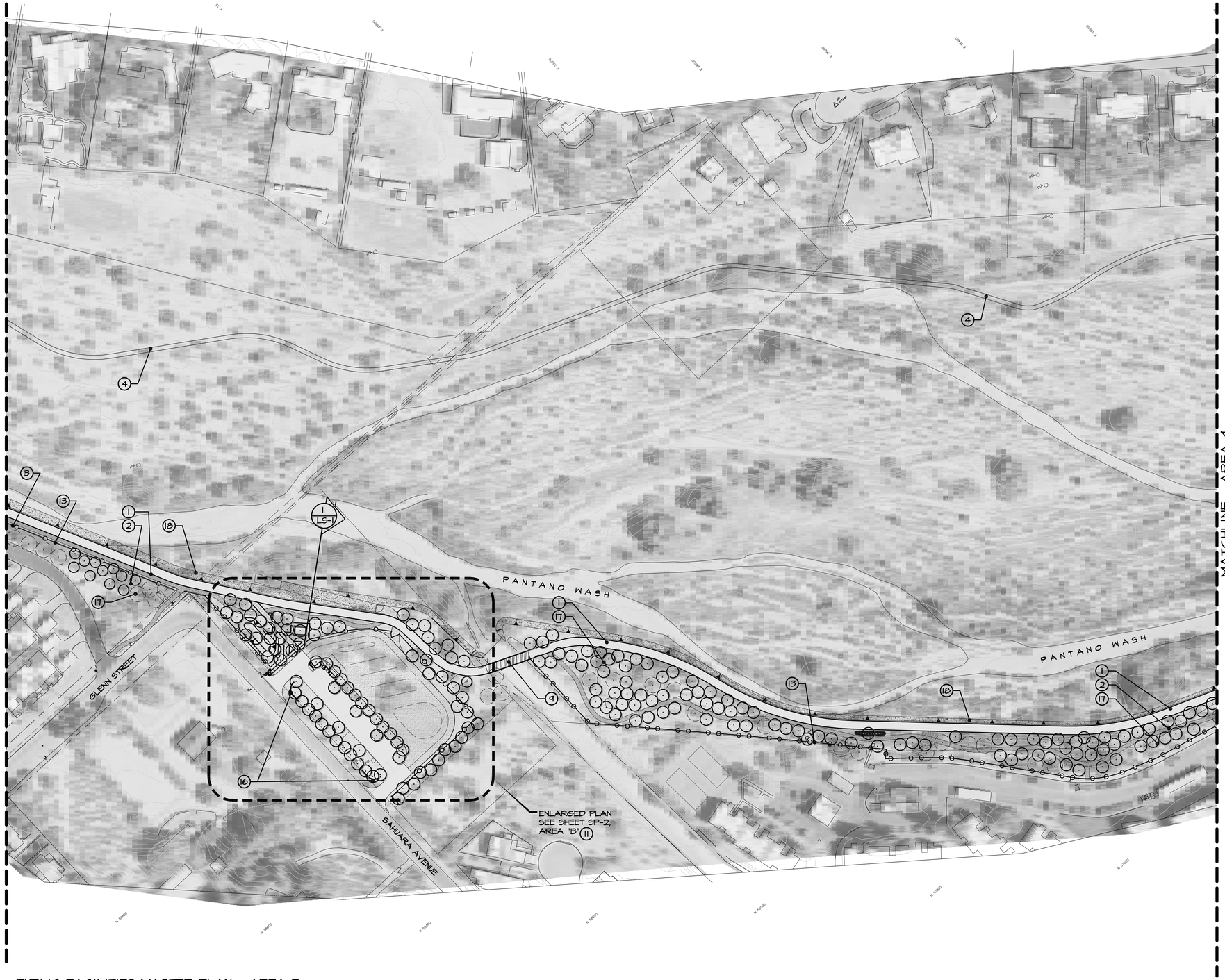

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20. CONNECTION TO GRANT ROAD SIDEWALK
21. ALTERNATE EQUESTRIAN STAGING AREA

NORTH

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

PUBLIC FACILITIES MASTER PLAN - AREA 3
SCALE: 1" = 100'-0"

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	DKM/SRM	05/2013
DRAWN:	SRM/PJB	
CHECKED:	DKM	
PROJ. ENG.:	DKM/SRM	

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PUBLIC FACILITIES MASTER PLAN
FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK PHASE 3 AND 4

McGann & Associates
Landscape Architects and Planners
6841 N. Oracle Road, Suite 210
Tucson, Arizona 85704
Telephone: (520) 297-9540 Fax: (520) 297-9545

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PIMA COUNTY W.O. 5SERAJ

SCALES:	HORIZ.	SHEET L-3 OF
	VERT.	

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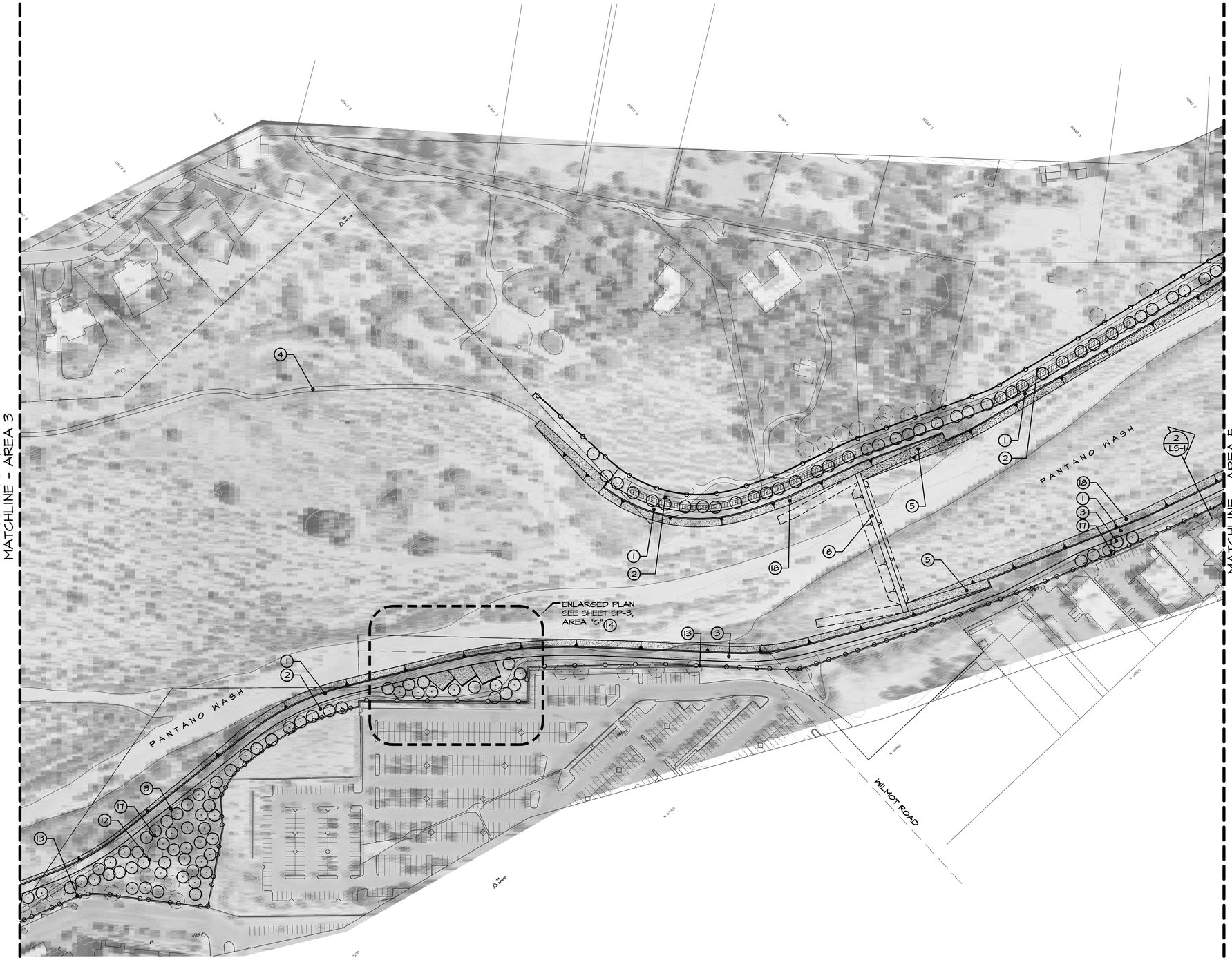

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20. CONNECTION TO GRANT ROAD SIDEWALK
21. ALTERNATE EQUESTRIAN STAGING AREA

PUBLIC FACILITIES MASTER PLAN - AREA 4
SCALE: 1" = 100'-0"

NORTH

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

SCALES: HORIZ. 1" = 100'
VERT.

SHEET L-4 OF

SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	DKM/SRM	DATE 05/2013
DRAWN:	SRM/PJB	
CHECKED:	DKM	
PROJ. ENG.:	DKM/SRM	

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PUBLIC FACILITIES MASTER PLAN
FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK PHASE 3 AND 4

McGann & Associates
Landscape Architects and Planners
4414 North Campbell Avenue, Suite 210
Tucson, Arizona 85718
Telephone: (520) 297-9540 Fax: (520) 297-9545

PRELIMINARY
NOT FOR
CONSTRUCTION

PIMA COUNTY W.O. 5SERAJ

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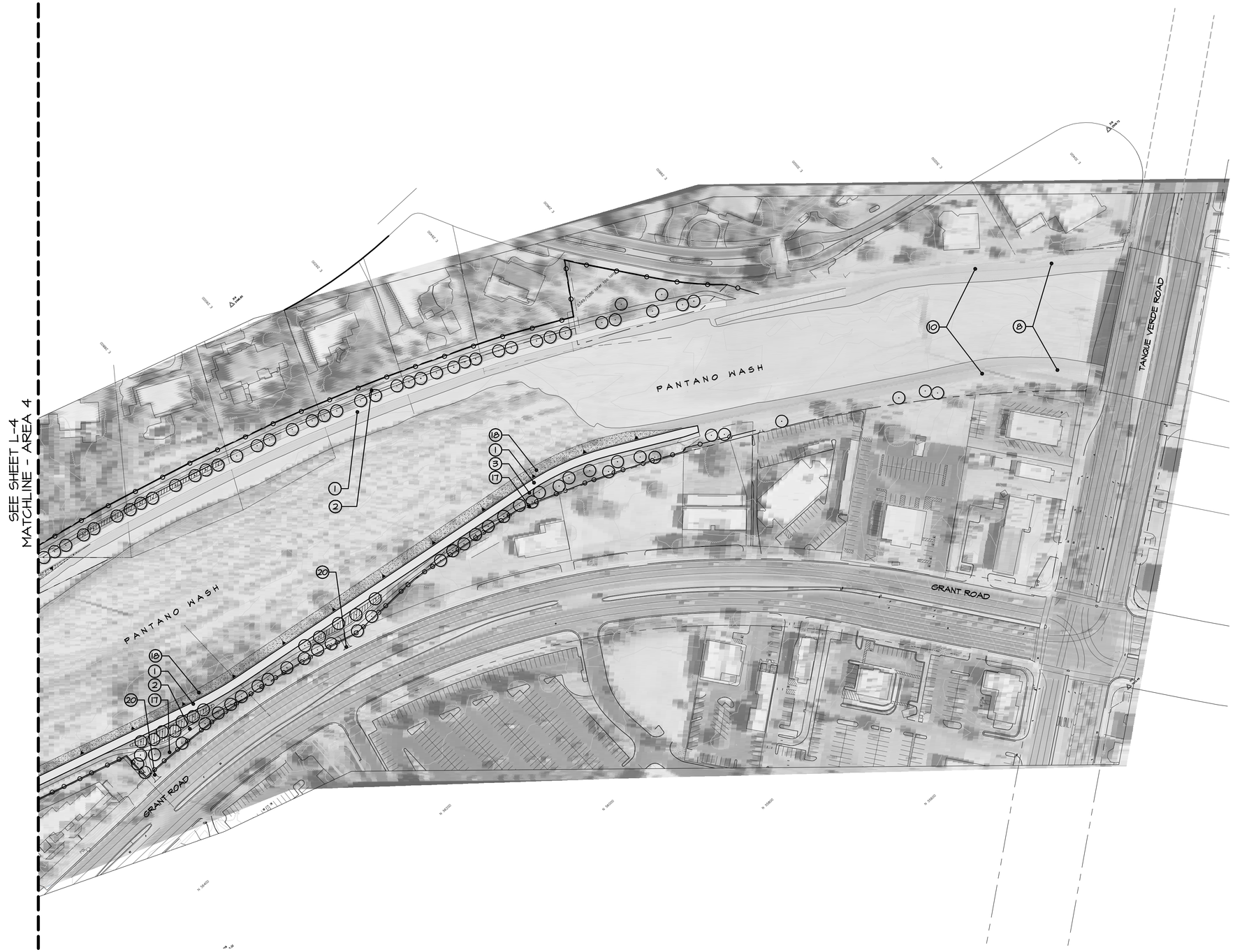

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17. PRESERVED NATIVE VEGETATION AND NEW LANDSCAPE PLANTINGS
18. SOIL CEMENT BANK PROTECTION
19. EQUESTRIAN ACCESS RAMP
20. CONNECTION TO GRANT ROAD SIDEWALK
21. ALTERNATE EQUESTRIAN STAGING AREA

PUBLIC FACILITIES MASTER PLAN - AREA 5
SCALE: 1" = 100'-0"

SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	DKM/SRM
DRAWN:	SRM/PJB
CHECKED:	DKM
PROJ. ENG.:	DKM/SRM

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE
			05/2013

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PUBLIC FACILITIES MASTER PLAN
FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK PHASE 3 AND 4

McGann & Associates
Landscape Architects and Planners
6644 E. Baker Street, Suite 210
Tucson, Arizona 85734
Telephone: (520) 297-9540 Fax: (520) 297-9545

PRELIMINARY NOT FOR CONSTRUCTION

PIMA COUNTY W.O. 5SERAJ

SCALES:	HORIZ.	SHEET L-5 OF
	VERT.	

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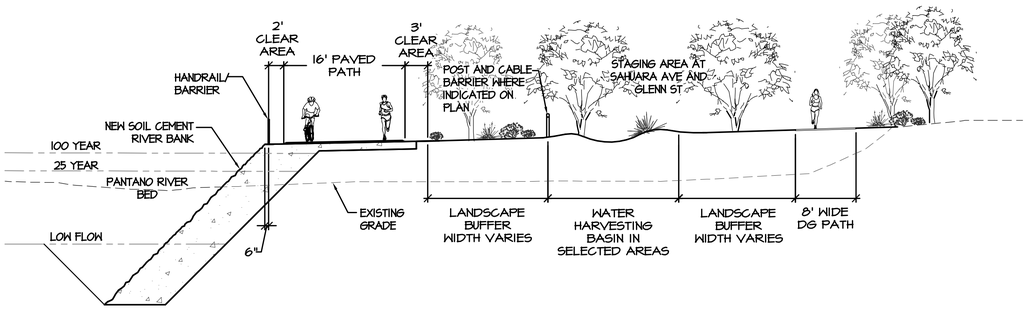
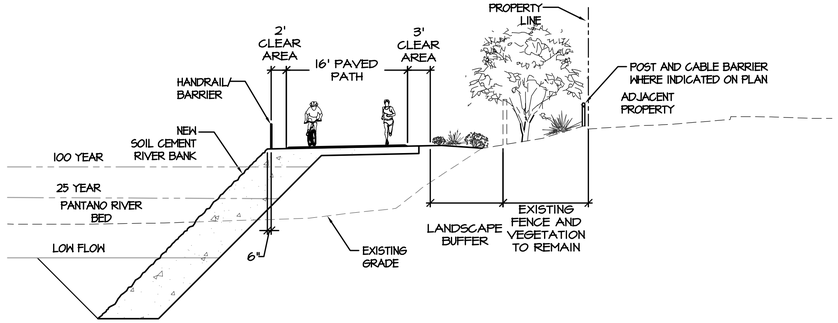


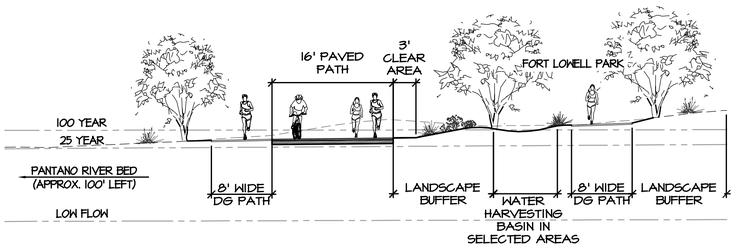
1 TYPICAL RIVER PARK CROSS-SECTION WITH SOIL CEMENT (STA: 58+00)

SCALE: N.T.S.



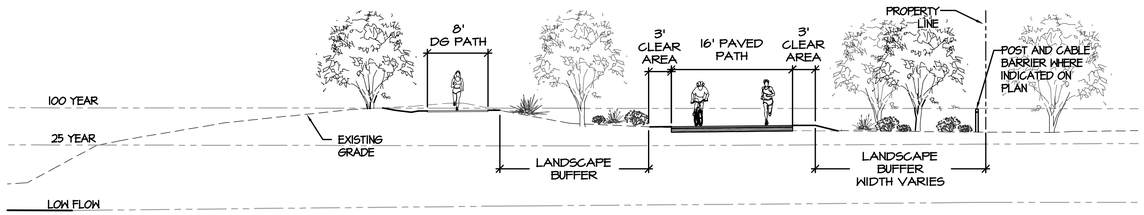
2 CONSTRAINED RIVER PARK CROSS-SECTION (STA: 100+00)

SCALE: N.T.S.



3 TYPICAL RIVER PARK CROSS-SECTION WITHOUT BANK PROTECTION (STA: 43+00)

SCALE: N.T.S.



4 TYPICAL RIVER PARK CROSS-SECTION WITHOUT BANK PROTECTION (STA: 30+00)

SCALE: N.T.S.

SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	DKM/SRM
DRAWN:	SRM/PJB
CHECKED:	DKM
PROJ. ENG.:	DKM/SRM
DATE	05/2013

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

PRELIMINARY NOT FOR CONSTRUCTION

McGann & Associates
Landscape Architects and Planners
6644 North Oracle Road, Suite 210
Tucson, Arizona 85704
Telephone: (520) 297-9545 Fax: (520) 297-9545

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

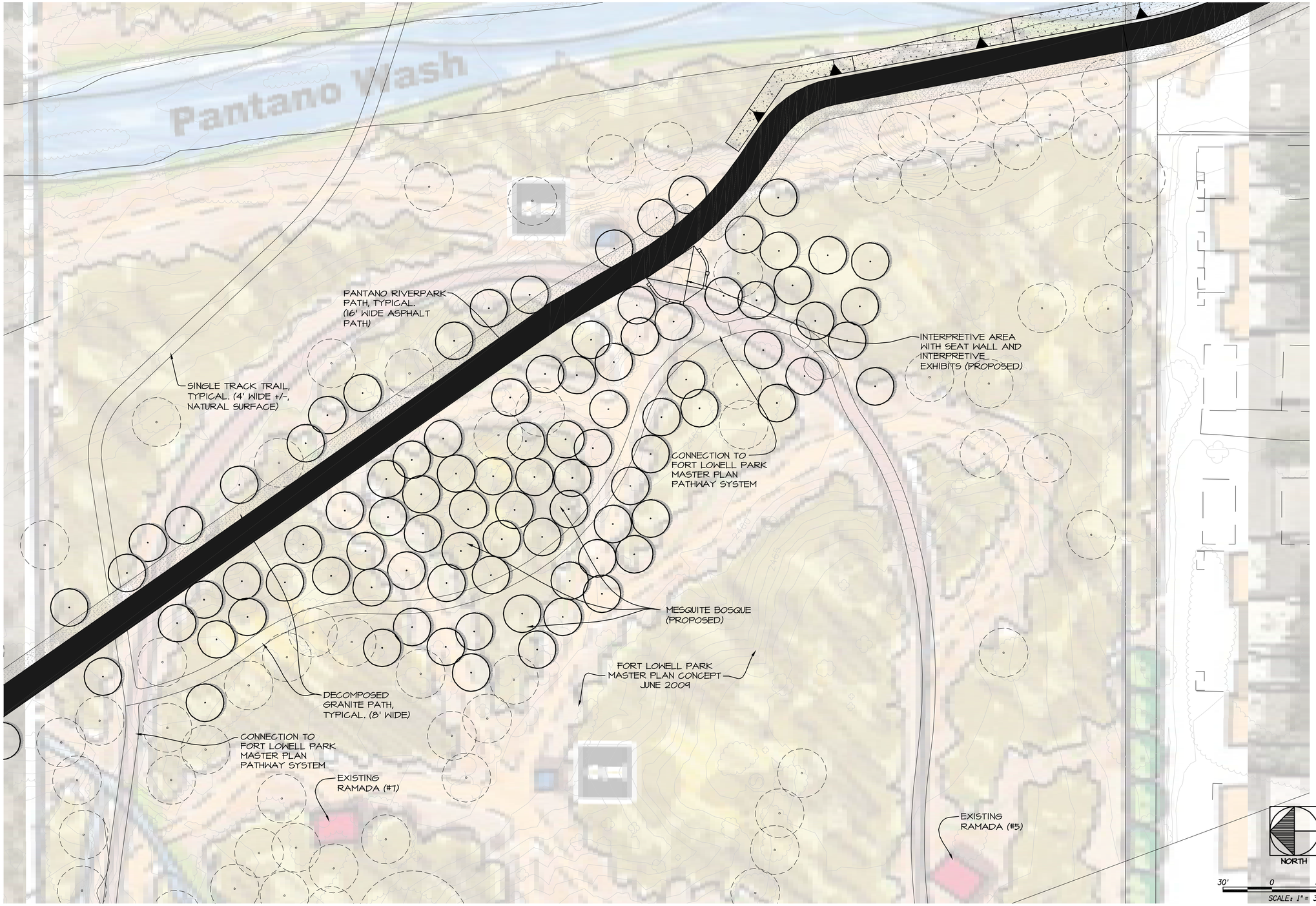
PUBLIC IMPROVEMENTS SUBSTITUTIONS PLAN
FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK PHASE 3 AND 4

PIMA COUNTY W.O. 5SERAJ

SCALES:	HORIZ.
	VERT.

SHEET LS-1 OF

G:\Projects\10-902 Paseo De Las Iglesias - A\p To Silverlake\PC Border.dwg Model Last Saved: Sept. 28, 2012 By: McGann & Assoc. Plotted: Sept. 28, 2012



PANTANO RIVER PARK - ENLARGED SITE PLAN - AREA 'A'

SCALE: 1" = 30'-0"

SUZANNE SHIELDS, P.E., DIRECTOR

		DATE
DESIGNED:	DKM/SRM	05/2013
DRAWN:	SRM/PJB	
CHECKED:	DKM	
PROJ. ENG.:	DKM/SRM	

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

PRELIMINARY NOT FOR CONSTRUCTION

McGann & Associates
Landscape Architects and Planners
6814 North Oracle Road, Suite 210
Tucson, Arizona 85704
Telephone: (520) 297-9540 Fax: (520) 297-9545

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PLANTED ACTIVITIES MASTER PLAN
FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK PHASE 3 AND 4

SCALES:	HORIZ.	SHEET SP-1 OF
	VERT.	

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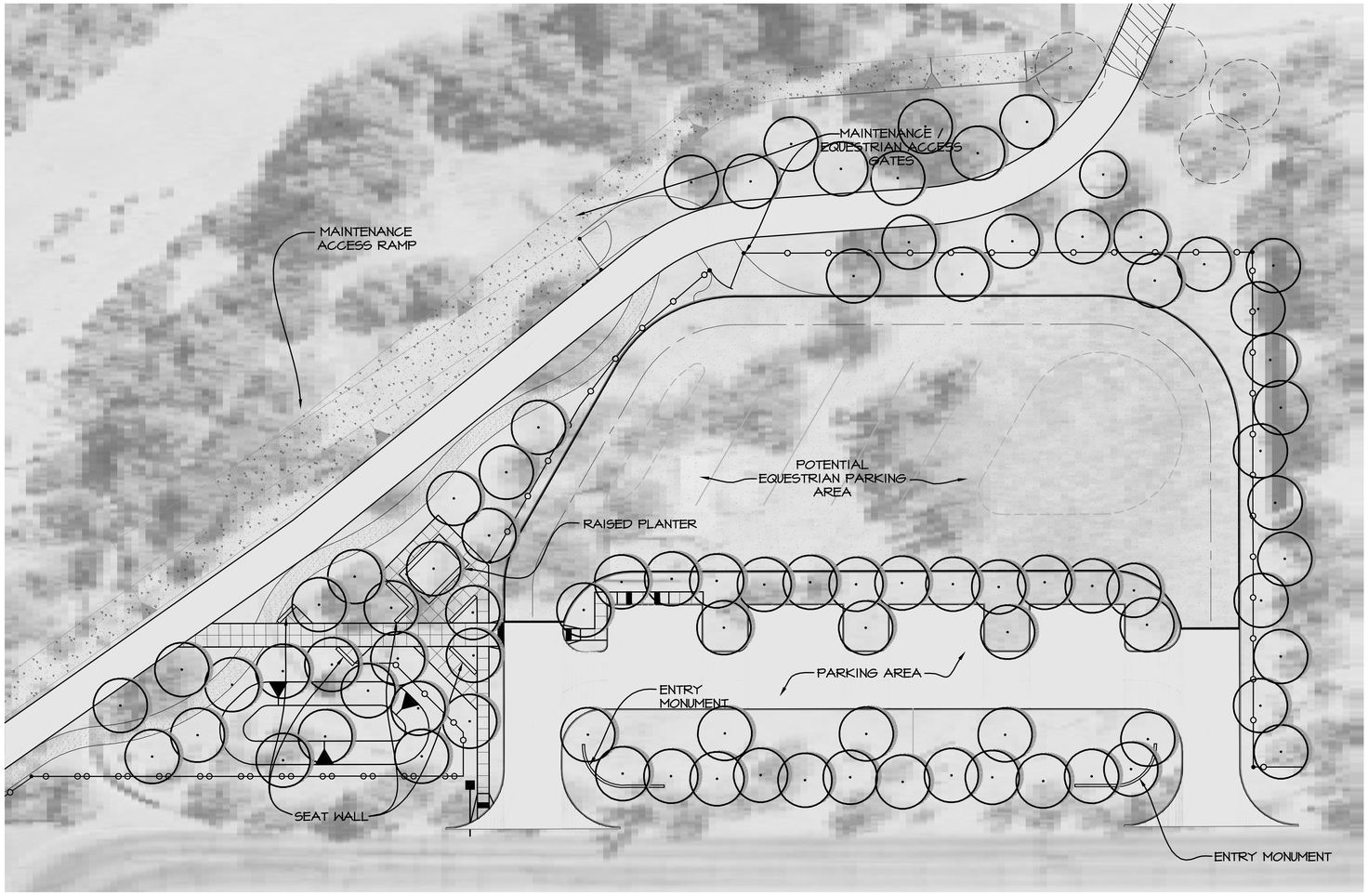
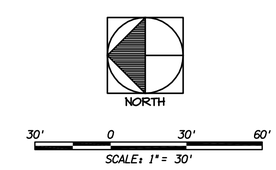


PANTANO RIVER PARK - ENLARGED SITE PLAN - AREA 'B'

SCALE: 1" = 30'-0"



SUZANNE SHIELDS, P.E., DIRECTOR

		DATE
DESIGNED:	DKM/SRM	05/2013
DRAWN:	SRM/PJB	
CHECKED:	DKM	
PROJ. ENG.:	DKM/SRM	

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

PRELIMINARY NOT FOR CONSTRUCTION

PIMA COUNTY W.O. 5SERAJ

McGann & Associates
Landscape Architects and Planners
6814 North Oracle Road, Suite 210
Tucson, Arizona 85704
Telephone: (520) 297-9540 Fax: (520) 297-9545

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

PUBLIC FACLITIES MASTER PLAN
FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK PHASE 3 AND 4

SCALES: HORIZ. VERT.

SHEET SP-2 OF

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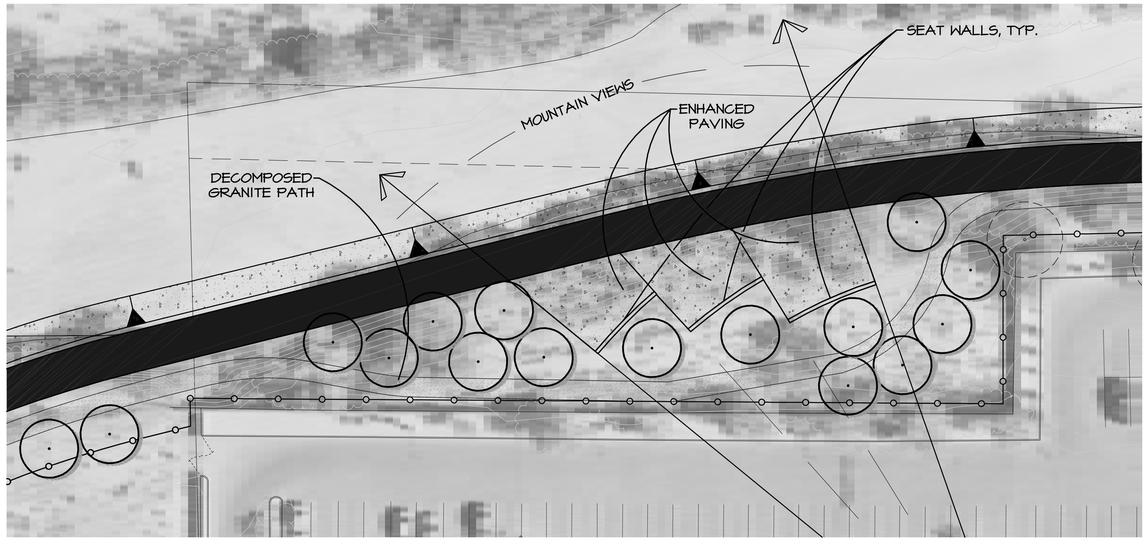


PANTANO RIVER PARK - ENLARGED SITE PLAN - AREA 'C'
SCALE: 1" = 30'-0"

NORTH

30' 0 30' 60'
SCALE: 1"= 30'

SCALES: HORIZ. / VERT.

SHEET SP-3 OF

Page 32 of 45

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	DKM/SRM	05/2013
DRAWN:	SRM/PJB	
CHECKED:	DKM	
PROJ. ENG.:	DKM/SRM	

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

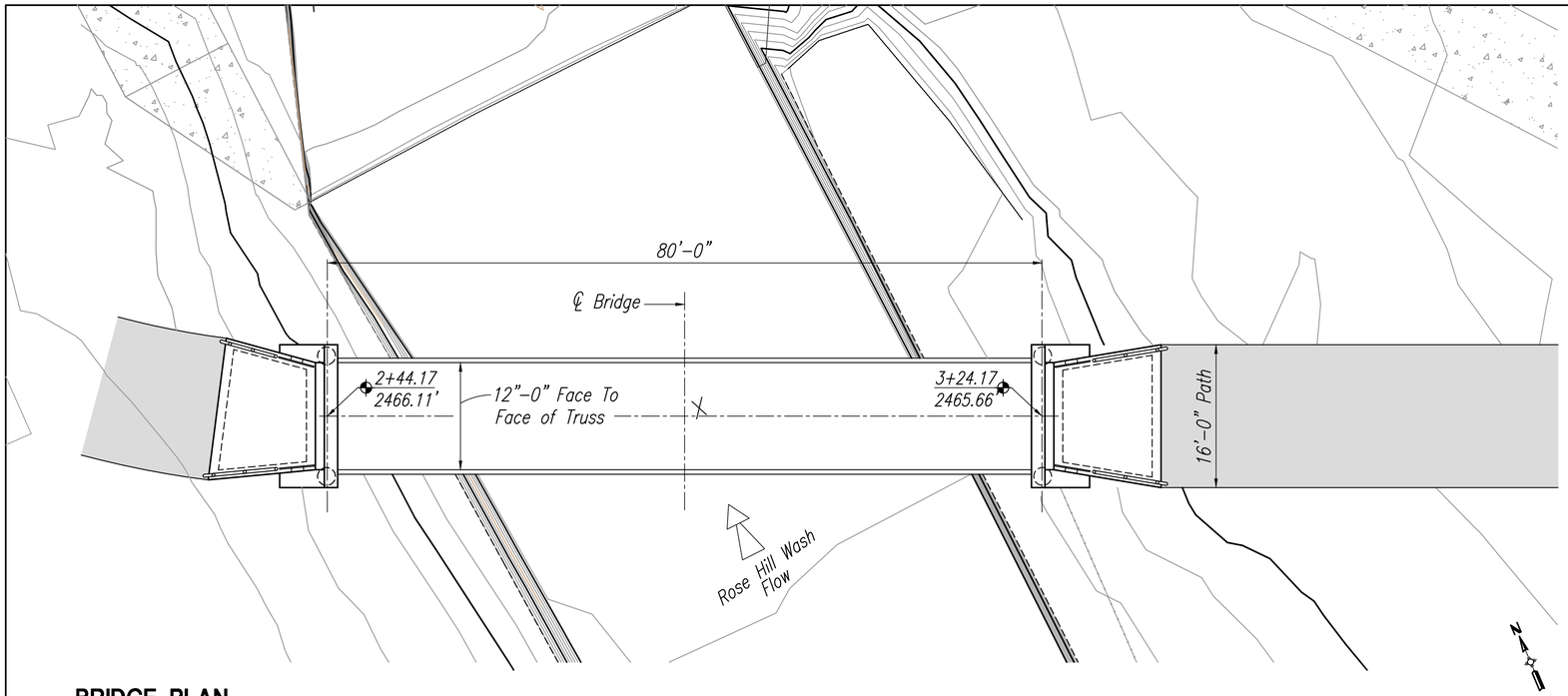
PUBLIC FACILITIES MASTER PLAN
FOR
PANTANO WASH BANK PROTECTION
AND RIVER PARK PHASE 3 AND 4

McGann & Associates
Landscape Architects and Planners
6644 E. Baker Blvd. Suite 210
Tucson, Arizona 85730
Telephone: (520) 297-3540 Fax: (520) 297-5545

PRELIMINARY
NOT FOR
CONSTRUCTION

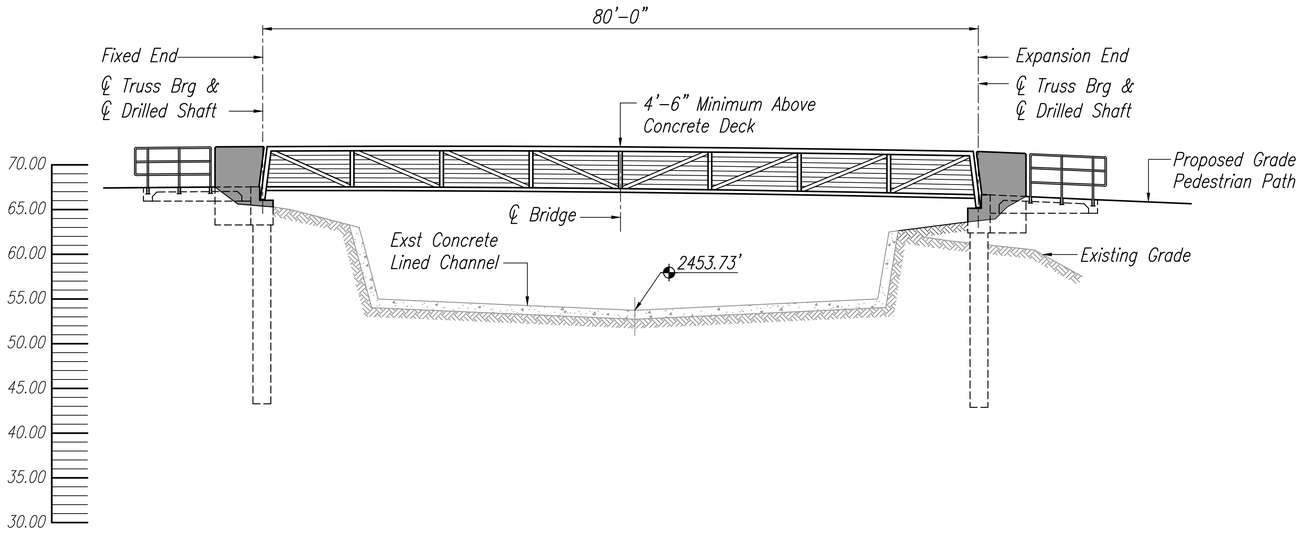
PIMA COUNTY W.O. 5SERAJ

C:\Projects\10-902 Paseo De Las Iglesias - Ajo To Silverlake\PC Border.dwg Model Last Saved: Sept. 28, 2012 By: McGann & Assoc Plotted: Sept. 28, 2012



BRIDGE PLAN

Scale 1/8" = 1'-0"



BRIDGE ELEVATION

Scale 1/8" = 1'-0"

PEDESTRIAN BRIDGE GENERAL NOTES

CONSTRUCTION SPECIFICATION

Pima County Standard Specifications for Public Improvements, 2003 edition, revised to date.

DESIGN SPECIFICATIONS

Bridge design will be in accordance with the following specifications:

A) AASHTO LRFD Bridge Design Specifications, 4th Edition, 2007.

B) LRFD Guide Specifications for Design of Pedestrian Bridges, 2nd Edition AASHTO 2009.

C) American Institute of Steel Construction Design, Manual of Steel Construction: Allowable Stress Design; 9th Edition.

D) The current American Welding Society Specifications AWS D1.1 Structural Welding Code, 1996 Edition.

DESIGN LOADINGS

A) Uniform Pedestrian live load of 85 psf reducible, but not less than 65 PSF of Bridge Walkway area or

B) 10,000 pound vehicle with 30% impact distributed as a four-wheel vehicle with 80% on rear wheels plus 20 PSF

C) 25 PSF wind load on full vertical projected area of bridge, as if enclosed.

D) 50 PLF handrail load or 200 lb concentrated load, whichever produces greater stress.

E) AASHTO Equivalent Static Force Method Seismic Zone II

F) Temperature differential of 100° F (±50° F)

CAMBERS AND DEFLECTIONS

A) Vertical deflection of the main truss due to pedestrian live load shall not exceed 1/600th of the bridge span.

B) Bridge shall be cambered to offset dead loads.

C) The camber shall not be such that localized deck slopes exceed handicap access slope of 8.33% (1:12).

CONCRETE

Bridge Deck	*f'c = 4000 psi*
Abutments, Drilled Shafts	*f'c = 4000 psi*
Approach Slabs/Ramps	*f'c = 3000 psi*

All concrete shall be class "S" unless noted otherwise.

REINFORCEMENT

Reinforcing bars shall conform to ASTM A615, grade 60. All dimensions for reinforcing steel shall be to center of bars, unless noted otherwise. All reinforcing shall have a 2" cover, unless noted otherwise. Concrete bridge deck shall have minimum reinforcement of W.W.F. 6x6 – W2.0 x W2.0. Provide 3/4" deep control joints in deck slab over every other floor beam.

PREFABRICATED BRIDGE UNIT

Bridge shall be designed and manufactured by the Continental Custom Bridge Company or approved alternate fabricator. Fabricator shall design bridge to meet all AASHTO requirements for a pedestrian/bicycle bridge. Bridge reactions and some dimensions on abutment details are specific to Continental. Contractor is responsible for coordinating details with fabricator and providing any re-design required. All details shall be approved prior to fabrication by the Engineer. The bridge unit shall be manufactured from self-weathering "Cor-Ten" type steel conforming to ASTM A847 and A588. All exposed surfaces shall be shot blasted to remove mill scale and provide even weathering prior to shipment. Bridge deck shall be galvanized steel decking with 5" thick regular weight concrete topping. Horizontal rails, safety rails, handrails, rub-rails, and toe plates, suitable for pedestrian and bicycle traffic shall be incorporated into bridge design. Shop drawings and calculations shall be submitted bearing the seal of a registered structural engineer in Arizona for approval prior to bridge fabrication.

HANDRAIL PAINT

Handrail paint – Williams Industrial Maintenance Coatings, MC-81, "Light Teal". Paint handrail in accordance with section 610 of the Standard Specifications.

COORDINATION

Contractor shall coordinate all existing conditions during construction of project.

Pantano Wash River Park & Bank Protection - Phase III & IV
Rose Hill Wash Pedestrian Bridge
Tucson, Arizona

Bridge Plan & Elevation

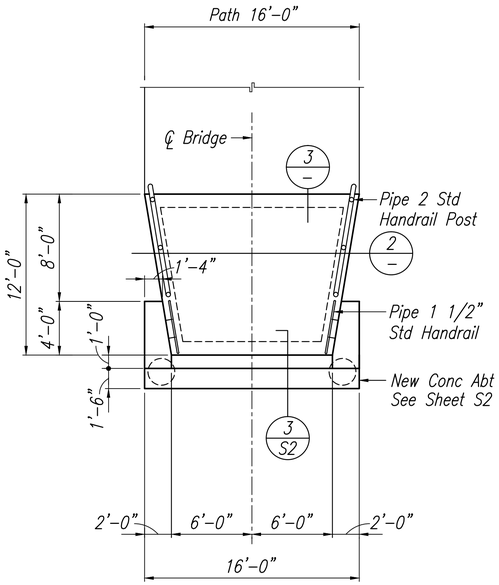
PRELIMINARY NOT FOR CONSTRUCTION

STRUCTURAL CONCEPTS INC.
CONSULTING ENGINEERS
(520) 721-2324
(520) 885-3507 FAX
8232 E. BROADWAY, SUITE W-7
TUCSON, ARIZONA 85710

Designed by DRL
Drafted by TR
Checked by DRL

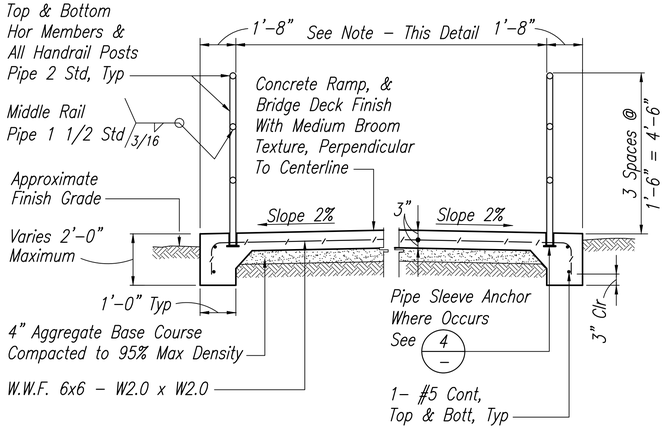
Date 7/18/13
Project No. 12-203
Sheet No.
S1
Page 33 of 45

SCI No. 12-203S1 – 96 – 36X24



TYP RAMP PLAN

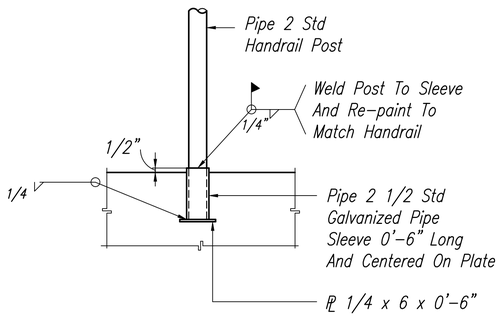
Scale 3/16" = 1'-0" 12203S3 (1)



NOTE
Clear Opening Shall Match Face-To-Face Handrail Dimension on Bridge.

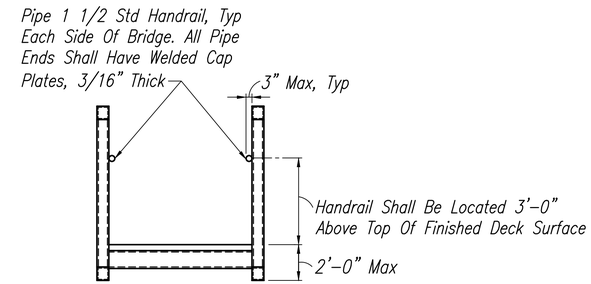
TRANSVERSE RAMP SECTION

No Scale 12203S3 (2)



PIPE SLEEVE ANCHOR

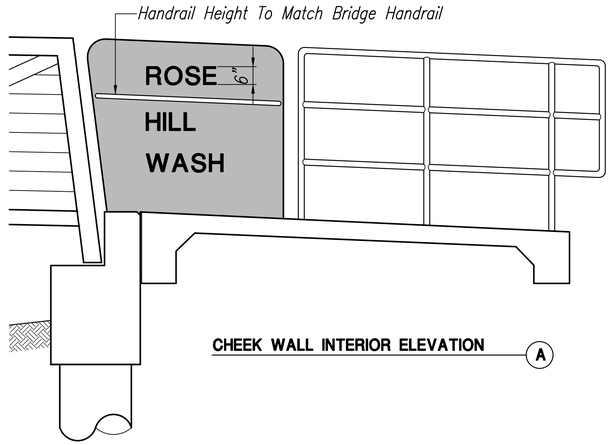
Scale 1 1/2"=1'-0" 12203S3 (3)

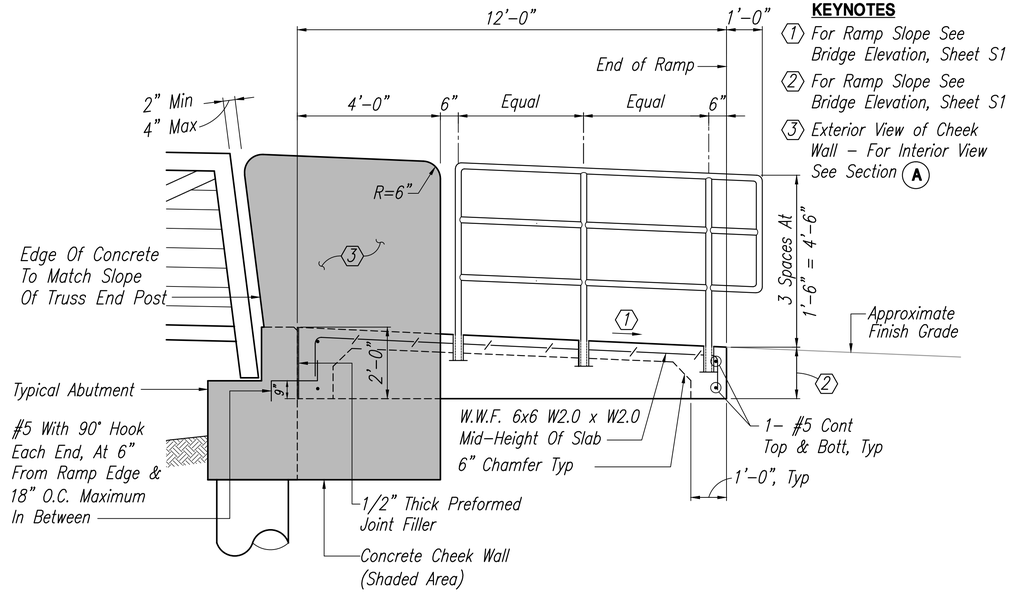


NOTE
All Aspects Of Handrail On Bridge Shall Be In Accordance With Requirements Of The Americans With Disabilities Act.

BRIDGE HANDRAIL

No Scale 12203S3 (4)





KEYNOTES

1. For Ramp Slope See Bridge Elevation, Sheet S1
2. For Ramp Slope See Bridge Elevation, Sheet S1
3. Exterior View of Cheek Wall – For Interior View See Section (A)

ABUTMENT ELEVATION

Scale: 1/2" = 1'-0" 12203S3 (5)

Bridge Details

Pantano Wash River Park & Bank Protection - Phase III & IV
Rose Hill Wash Pedestrian Bridge
Tucson, Arizona

PRELIMINARY NOT FOR CONSTRUCTION

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CONSULTING ENGINEERS
(520) 721-2324
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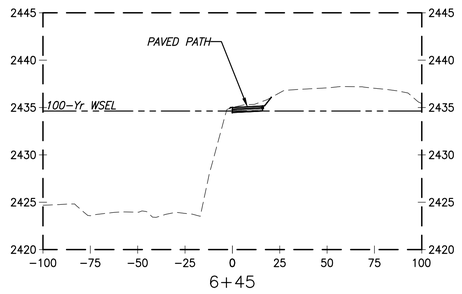
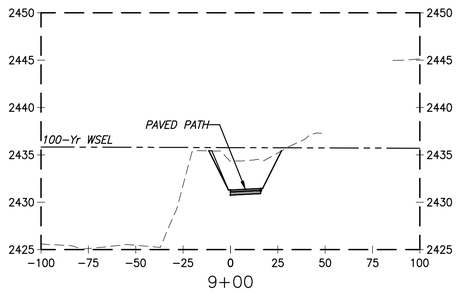
8230 E. BROADWAY SUITE W-7
TUCSON, ARIZONA 85710

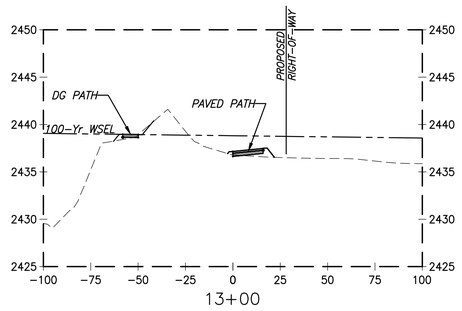
Designed by DRL
Drafted by TR
Checked by DRL

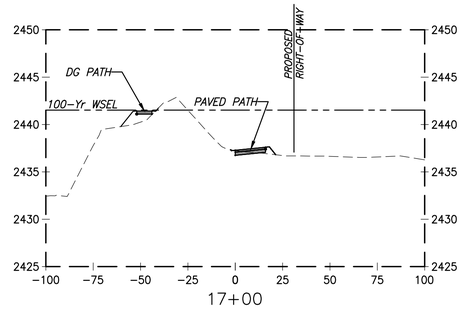
Date 7/18/13
Project No.
Sheet No.
S2

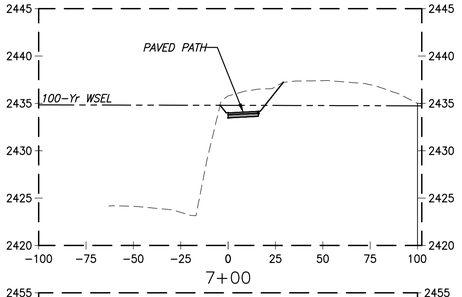
SCI No. 12-203S3 – 96 – 36X24

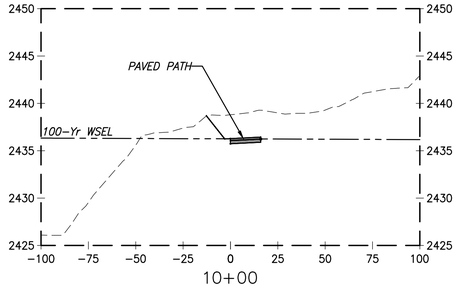


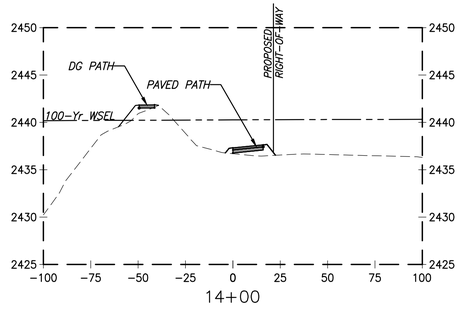


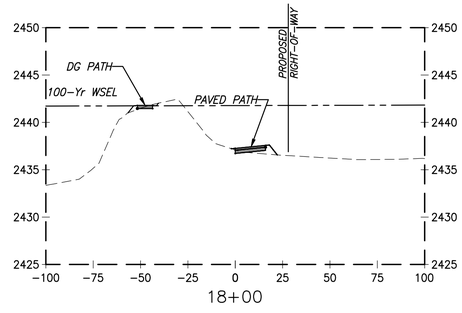


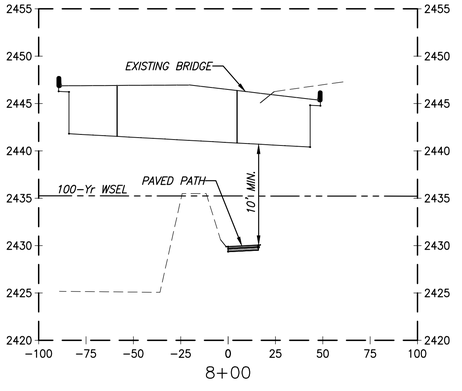


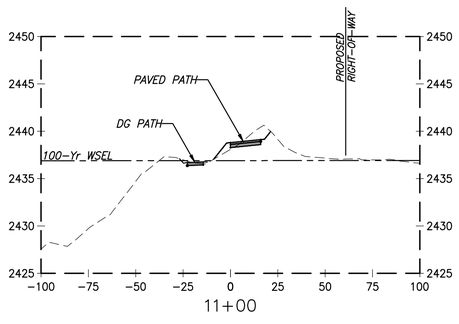


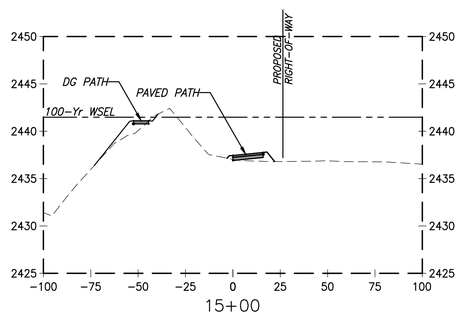


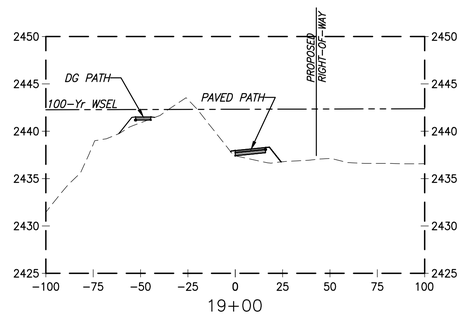


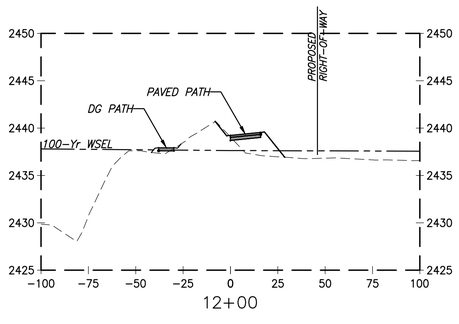


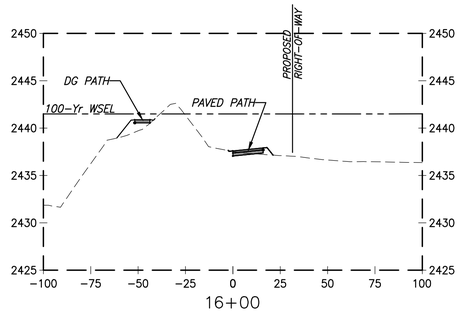


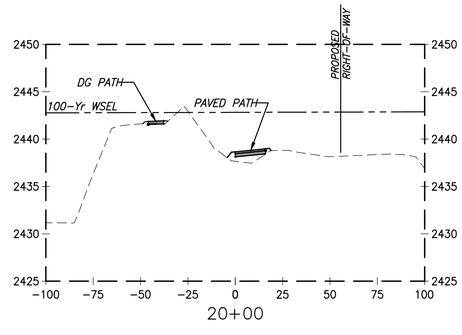












STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

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SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
(520) 292-2300 (520) 292-1290 (FAX)

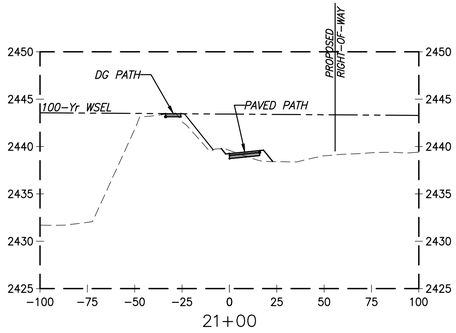
PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

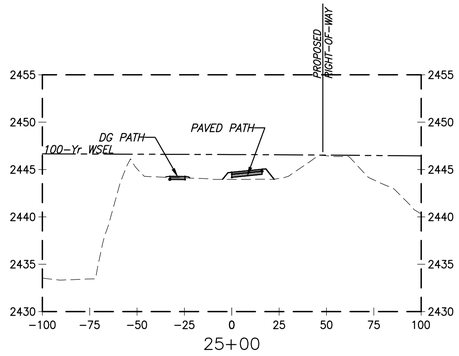
PIMA COUNTY W.O. 5PWFLT

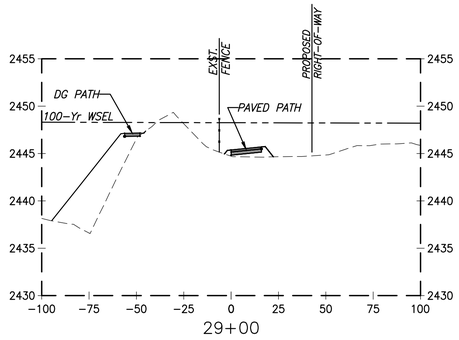
CROSS SECTIONS FOR PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

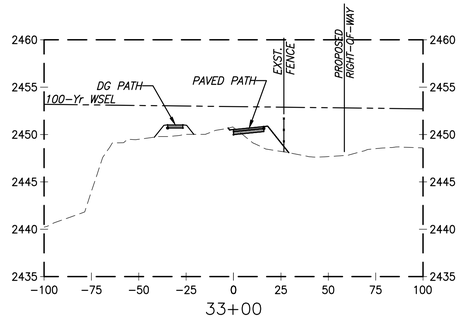
SCALES:	HORIZ. 1"=40'
	VERT. 1"=8'

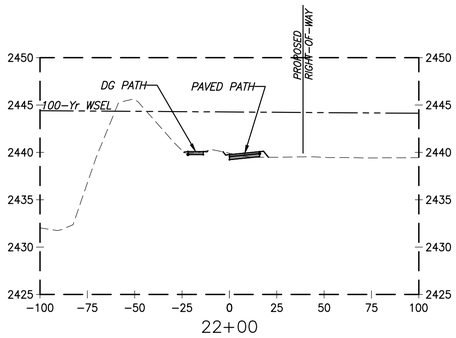
SHEET XS1 OF XS11

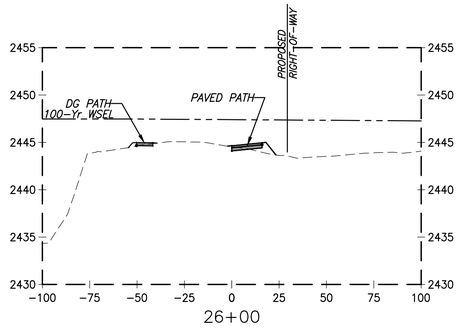


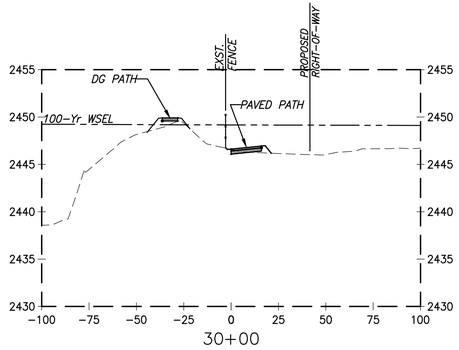


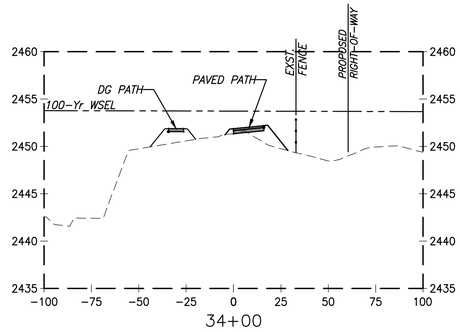


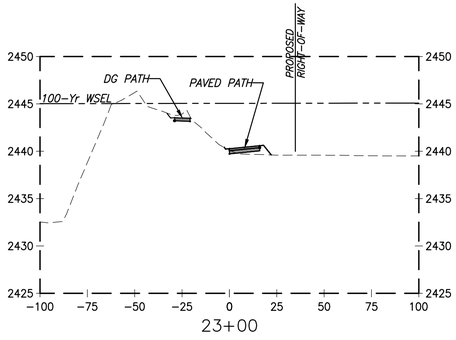


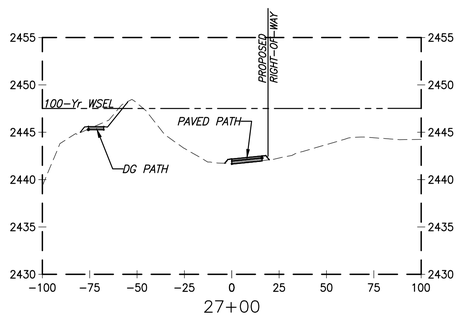


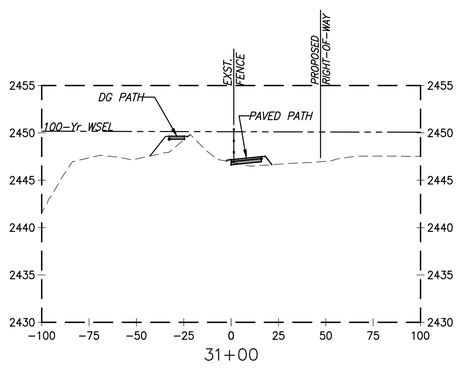


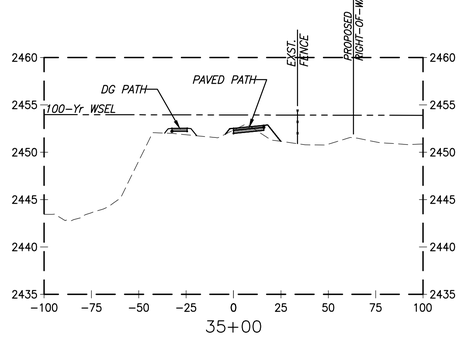


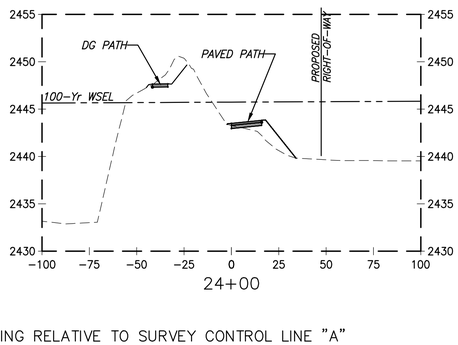


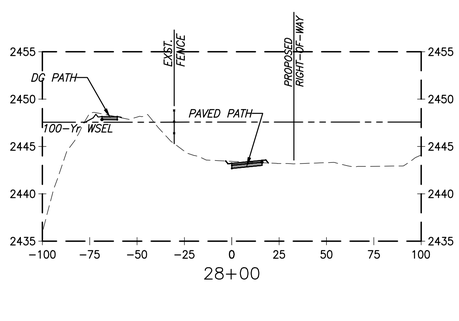


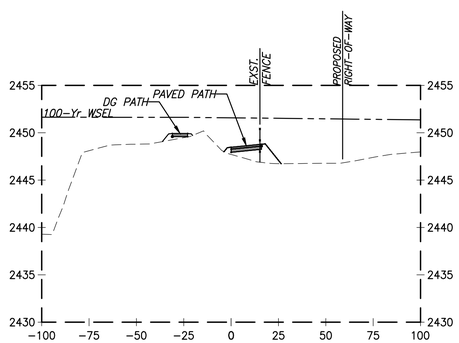


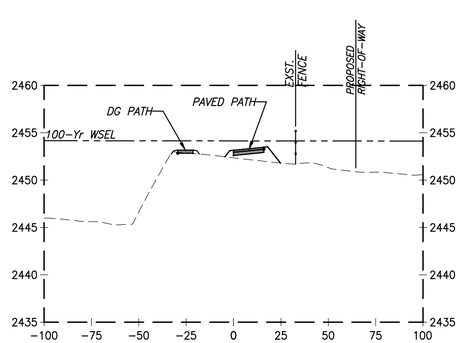












STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, AZ 85705-2308 (520) 292-1290 (FAX)

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

CROSS SECTIONS FOR PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET XS2 OF XS11

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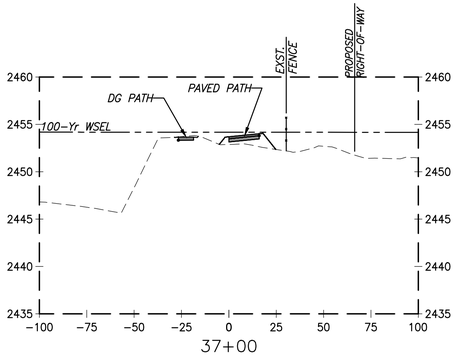
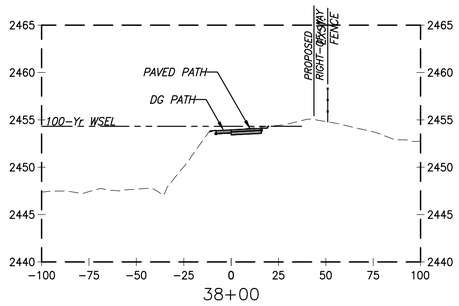
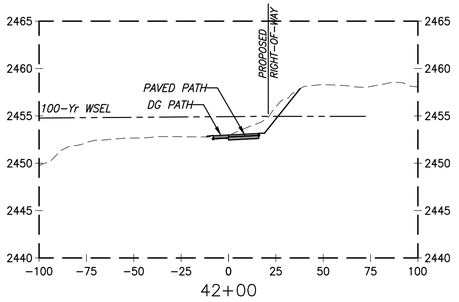
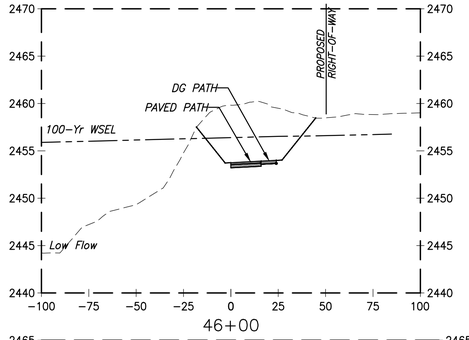
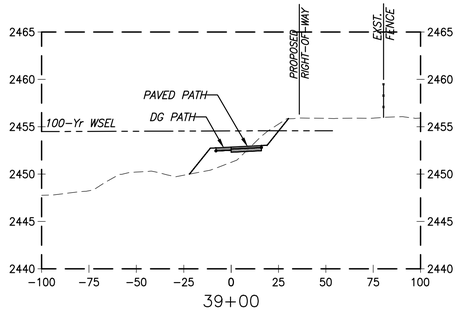
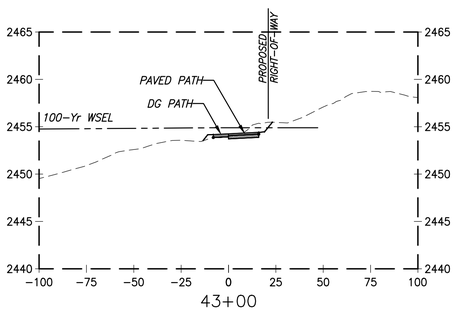


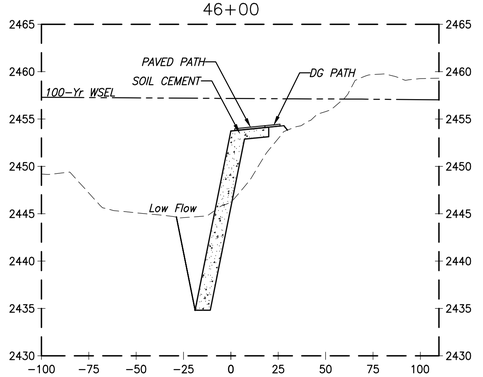


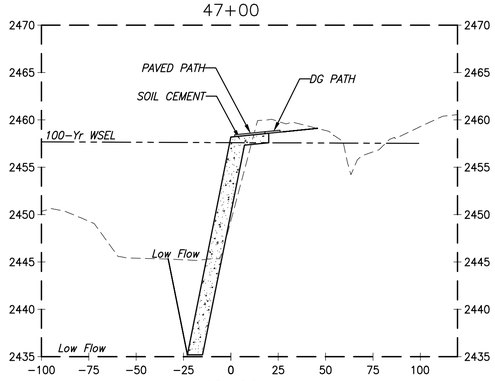


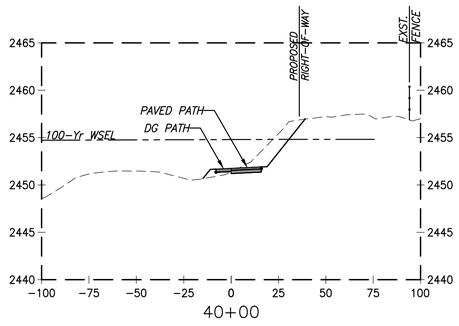


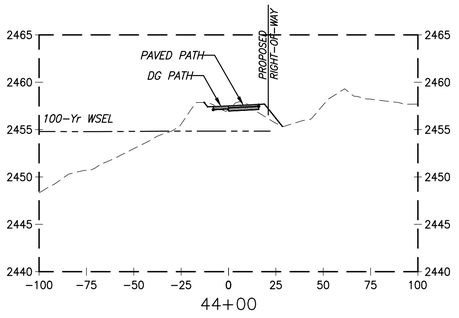


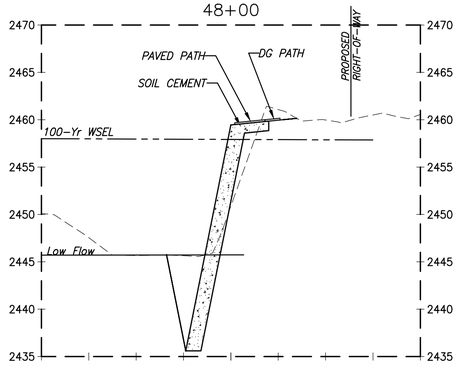


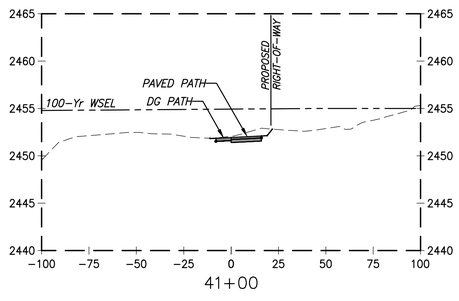


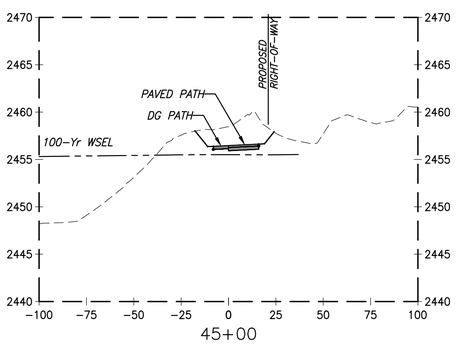












STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
(520) 292-2300 (520) 292-1290 (FAX)

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

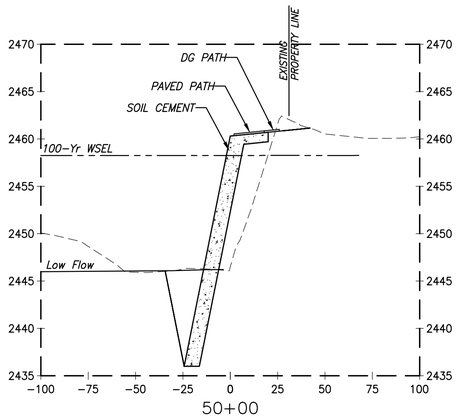
CROSS SECTIONS FOR PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

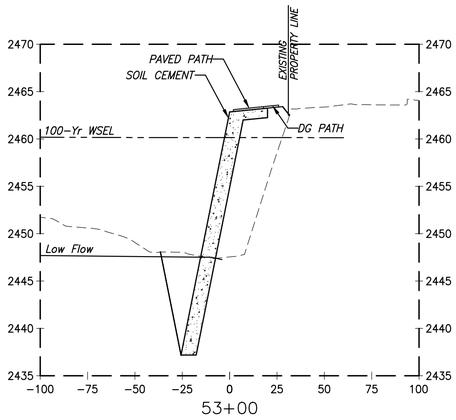
PIMA COUNTY W.O. 5PWFLT

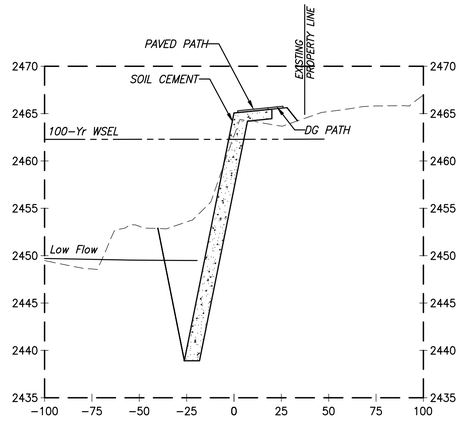
SCALES: HORIZ. 1"=40' VERT. 1"=8'

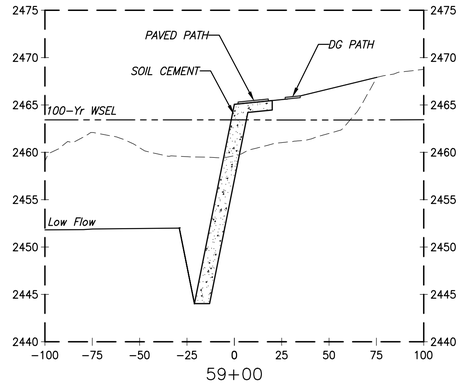
SHEET XS3 OF XS11

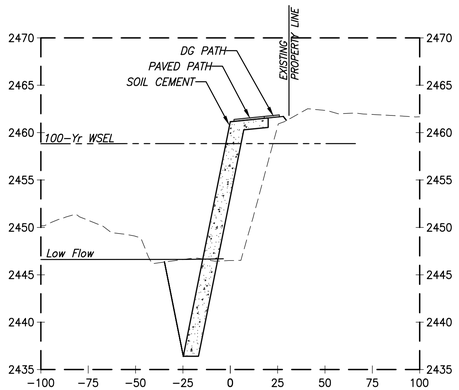
T:\7PFC110201\ENGR\SHEETS\Cross Sections\Bank Cross Sections.dwg RIGHT BANK_01 C Last Saved: Thu, 31 Oct 2013 By: Kletendre Plotted: Thursday, October 31, 2013 11:11:53 AM

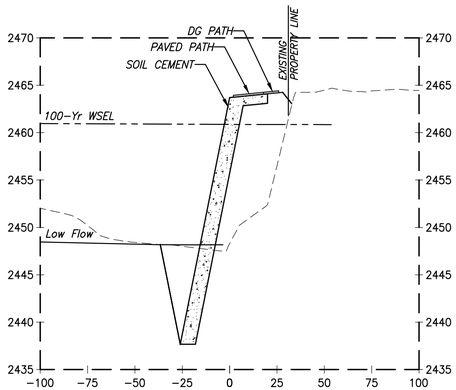


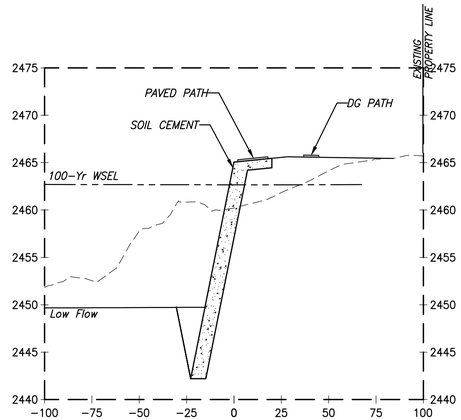


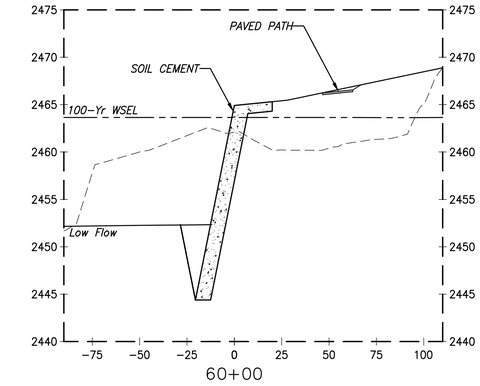


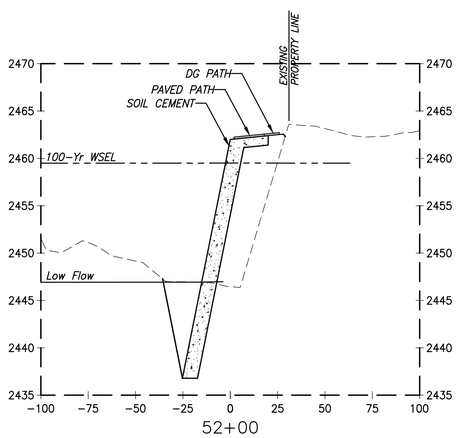


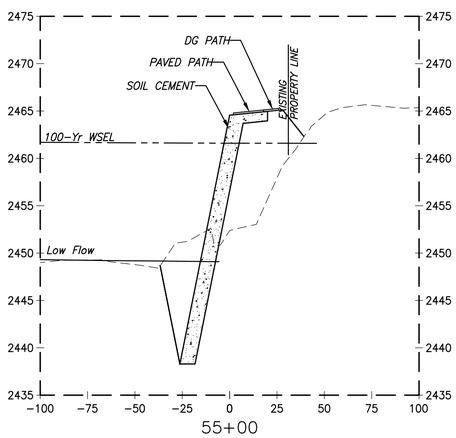


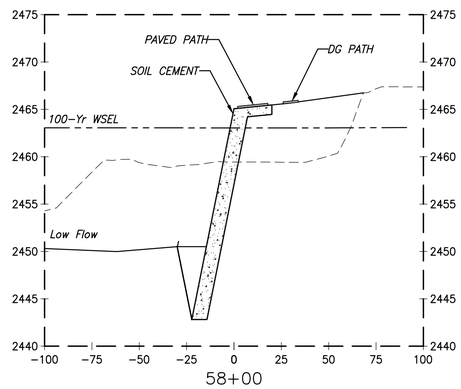


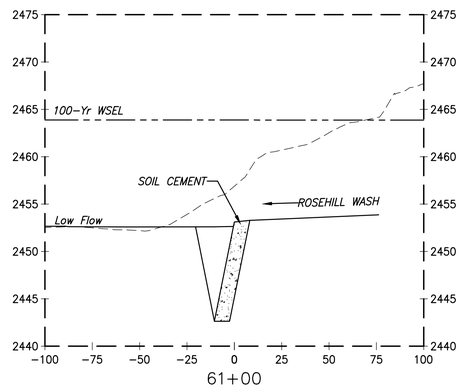












STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET XS4 OF XS11

Page 38 of 45

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, AZ 85705
(520) 292-2300 (520) 292-1290 (FAX)

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

CROSS SECTIONS FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

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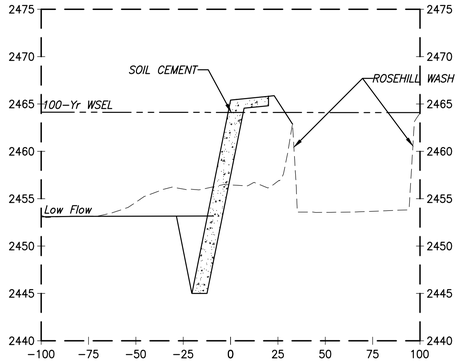

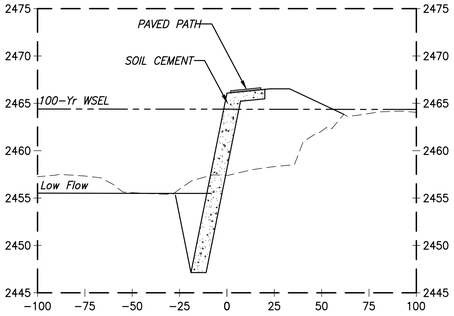

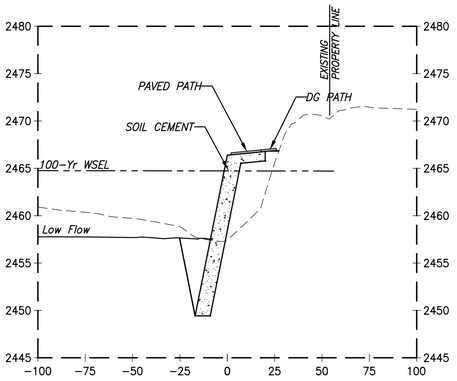

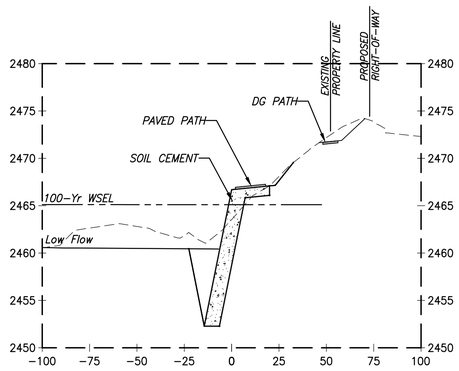

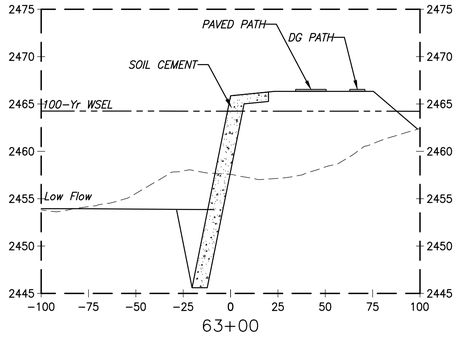

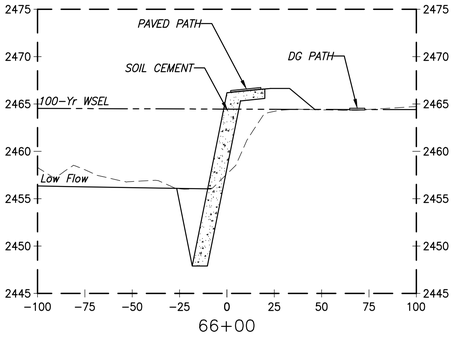

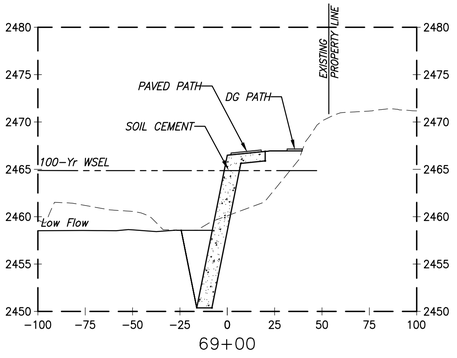

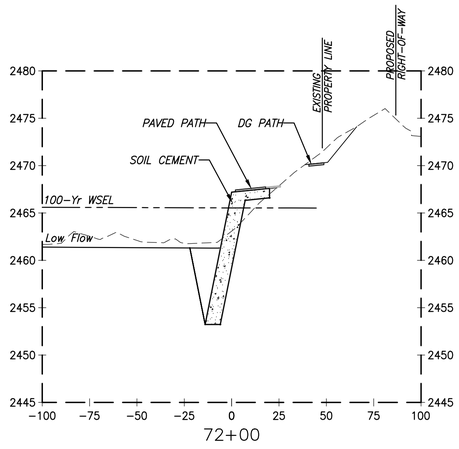

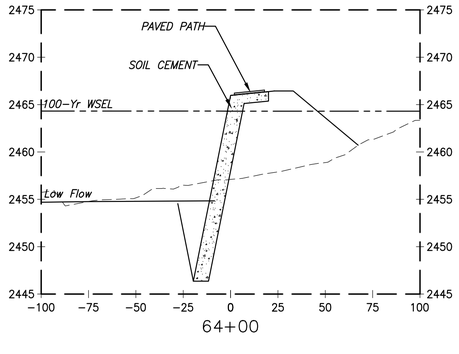

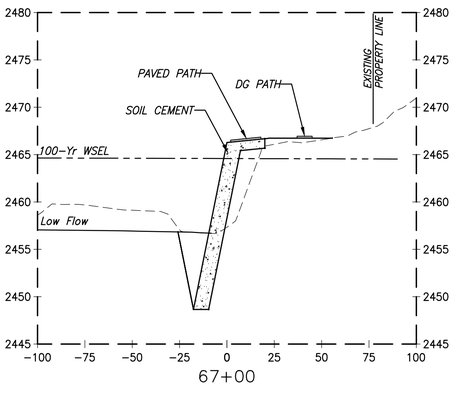

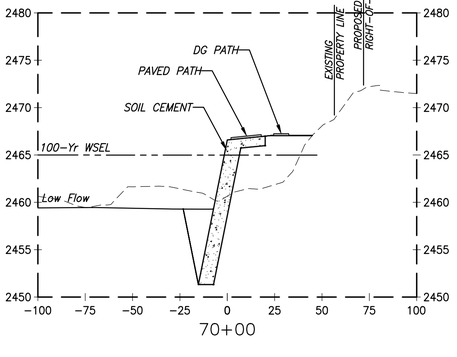

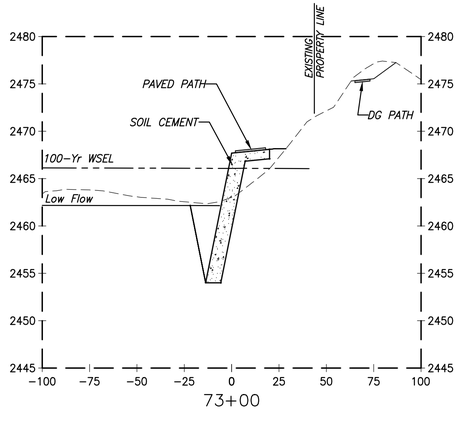

STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET XS5 OF XS11

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, AZ 85705
(520) 292-2300 (520) 292-1290 (FAX)

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

CROSS SECTIONS FOR PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

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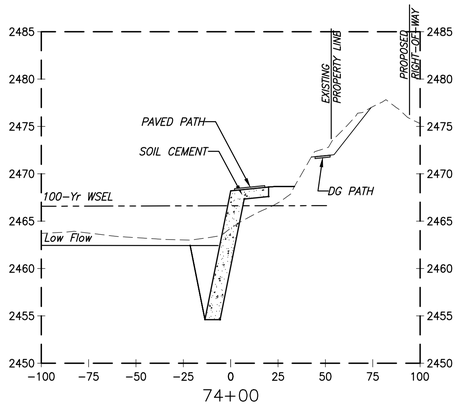

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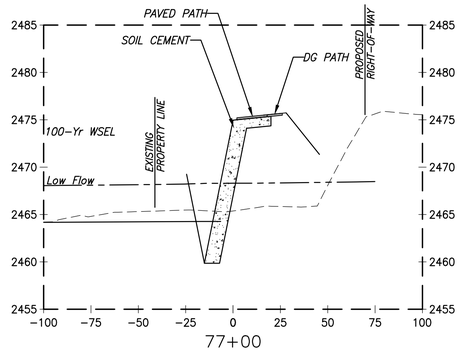

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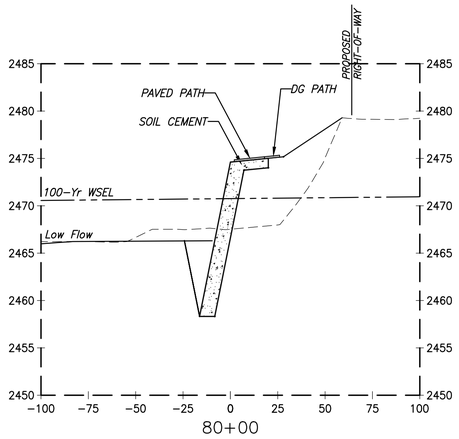

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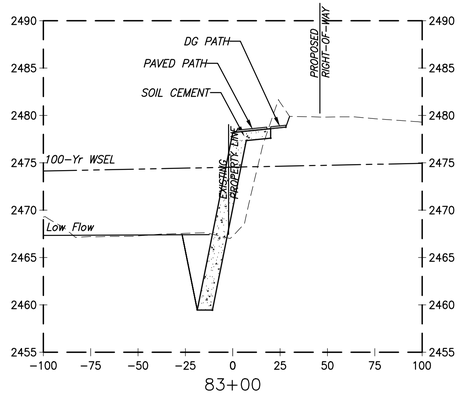

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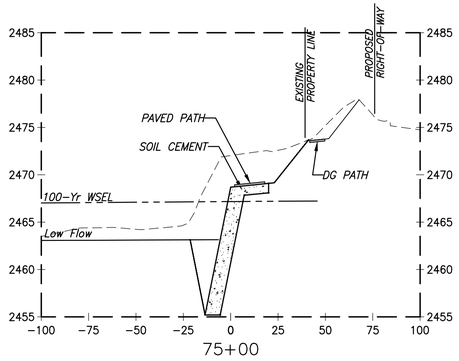

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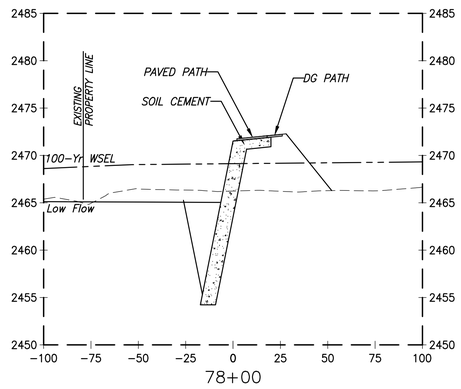

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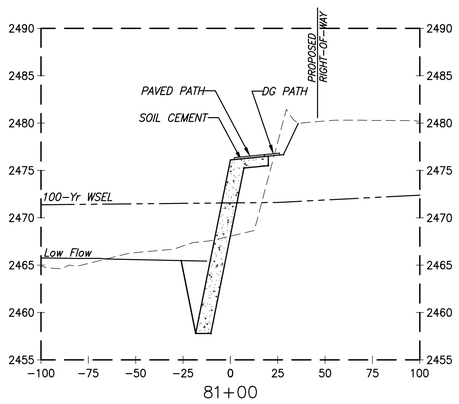

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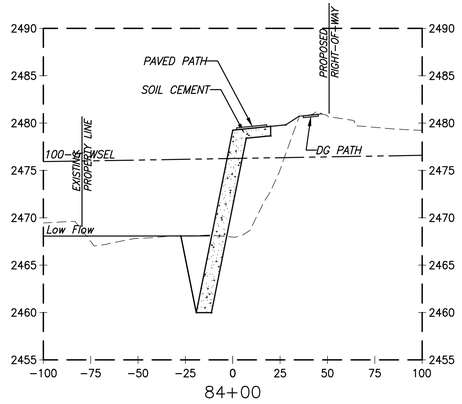

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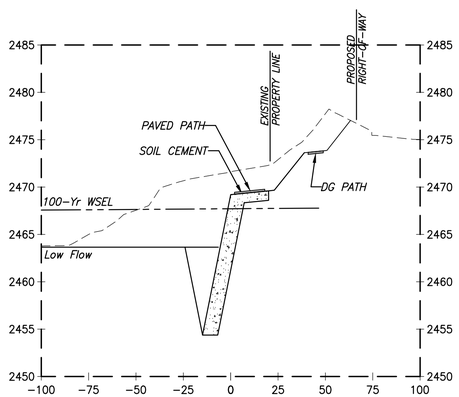

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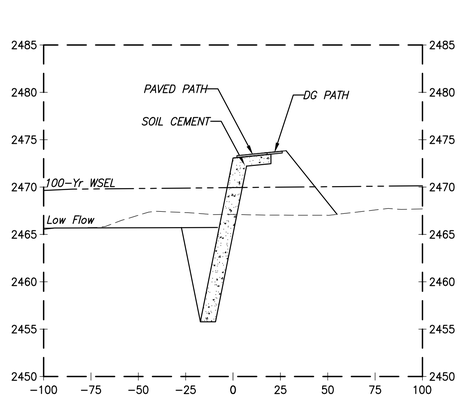

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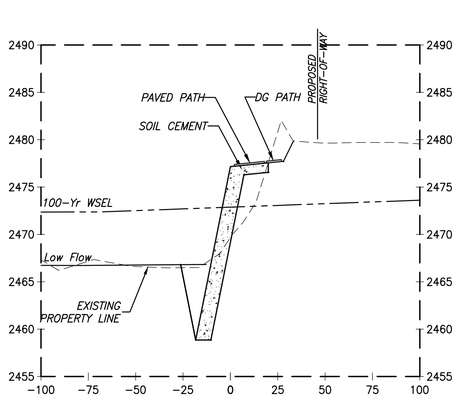

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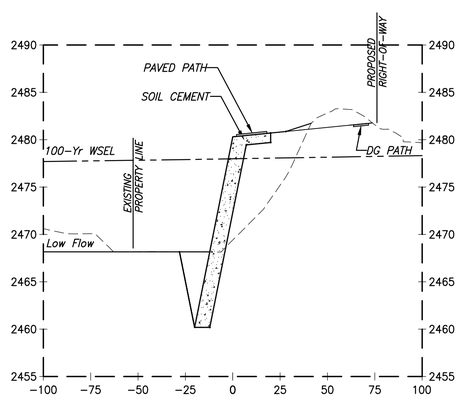


85+00

STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET XS6 OF XS11

Page 40 of 45

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

	DATE
DESIGNED:	06/2013
DRAWN: KUL/CRJ/MED	06/2013
CHECKED: CRJ/KUL	06/2013
PROJ. ENG.: MED	06/2013
	06/2013
KUL	06/2013

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, AZ 85705
(520) 292-2300 (520) 292-1290 (FAX)

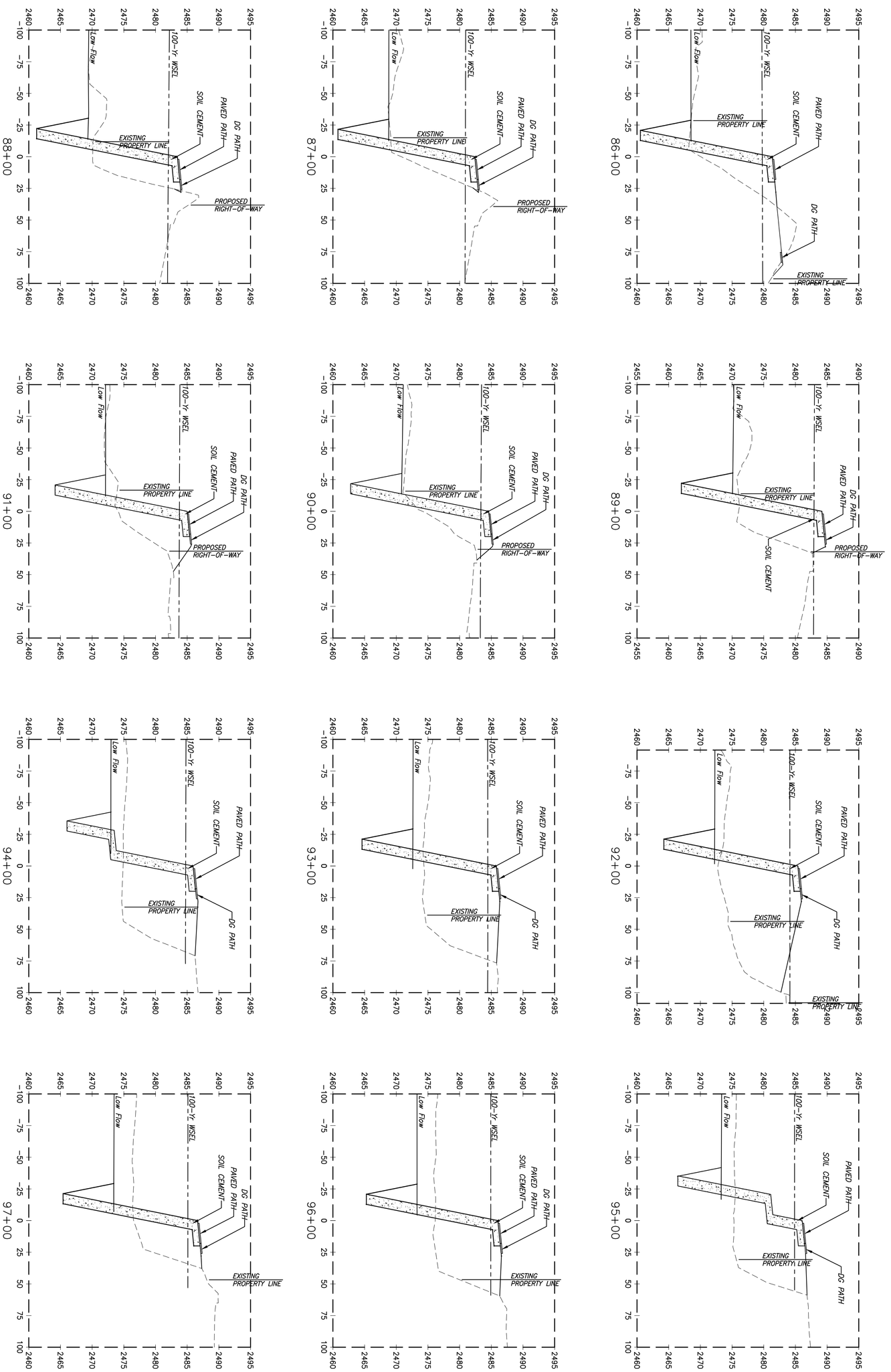
PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

CROSS SECTIONS FOR PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PIMA COUNTY W.O. 5PWFLT

T:\7PFC110201\ENGR\SHEETS\Cross Sections\Bank Cross Sections.dwg RIGHT BANK_04 Last Saved: Thu, 31 Oct 2013 By: Kletendre Plotted: Thursday, October 31, 2013 11:12:42 AM

STATIONING RELATIVE TO SURVEY CONTROL LINE "A"



SCALES:
HORIZ. 1"=40'
VERT. 1"=8'

SHEET XS7 OF XS11

Page 41 of 45

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

SUZANNE SHIELDS, P.E., DIRECTOR

CROSS SECTIONS
FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

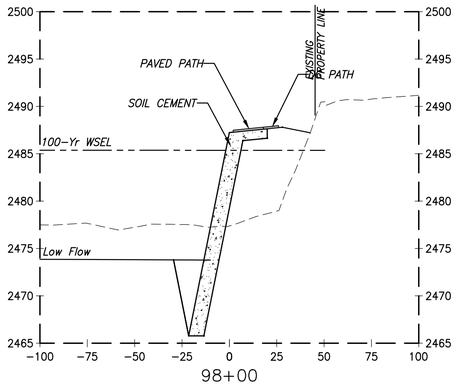
PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
(520) 292-2300 (520) 292-1290 (FAX)

30%
NOT FOR CONSTRUCTION

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013
		06/2013

PIMA COUNTY W.O. 5PWFLT



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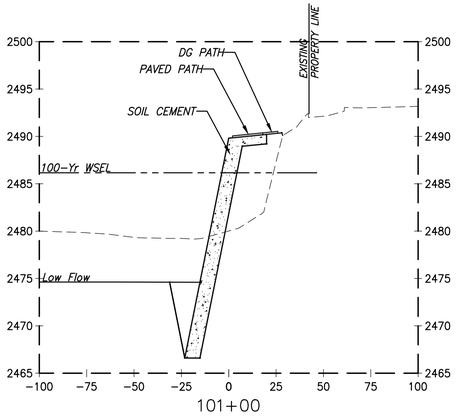

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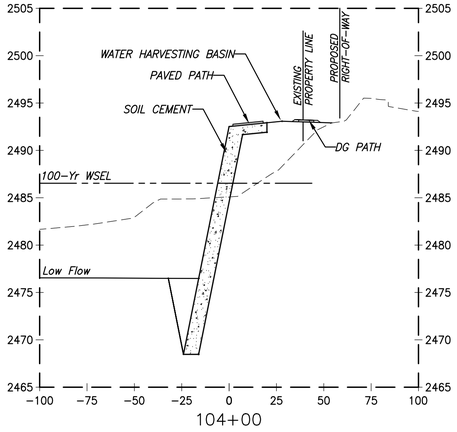

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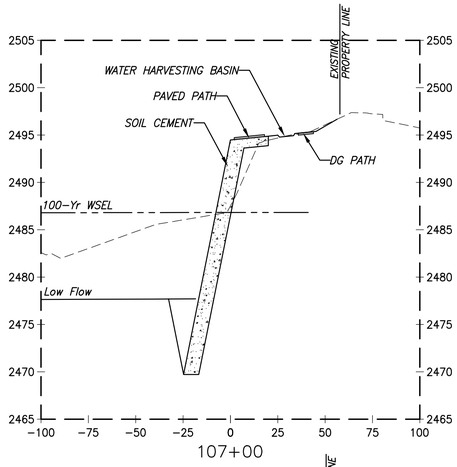

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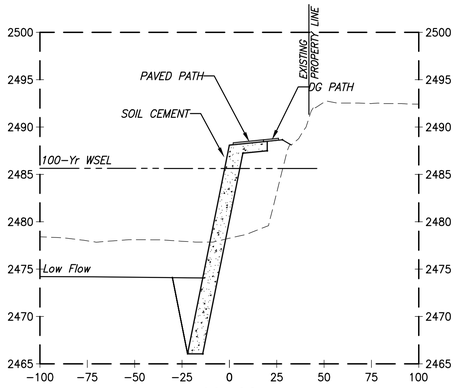

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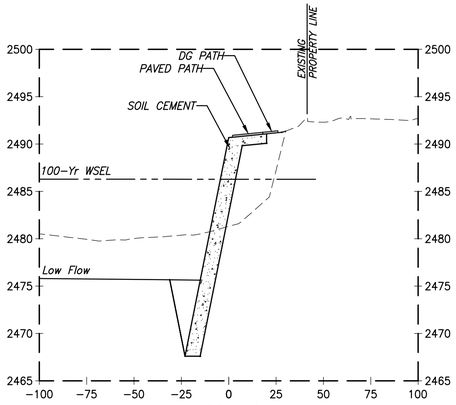

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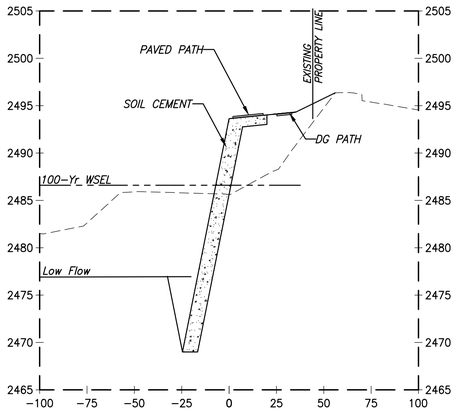

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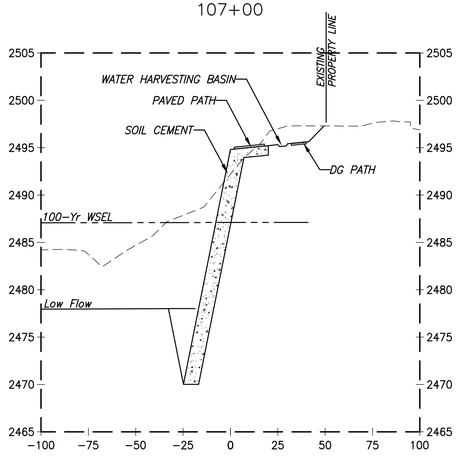

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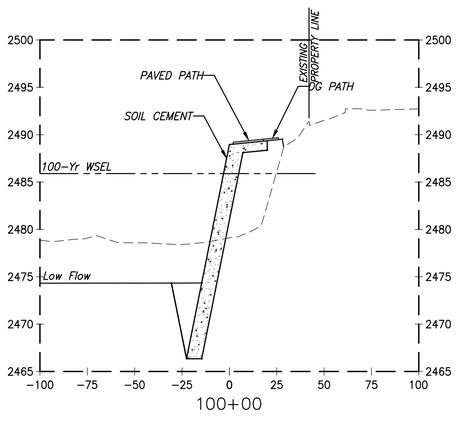

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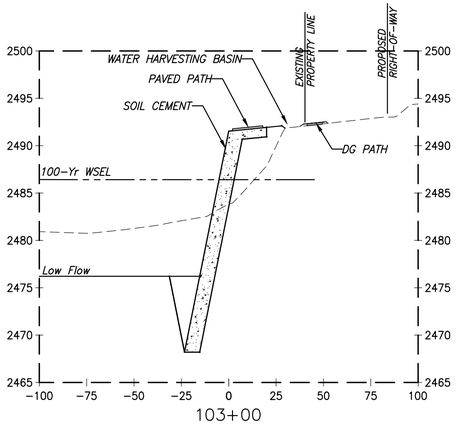

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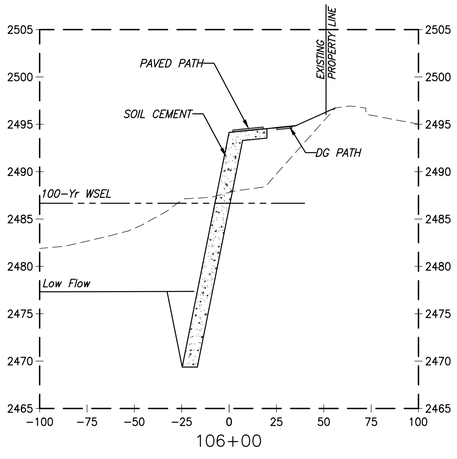

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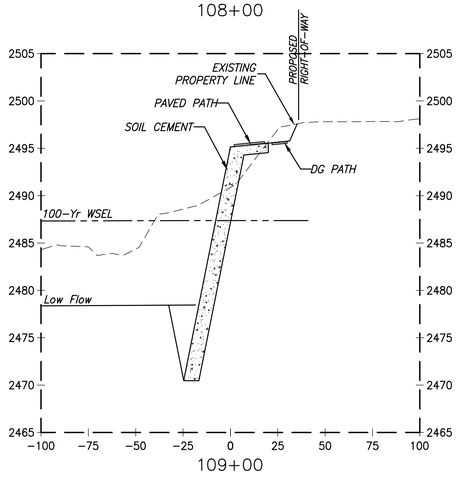


109+00

STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET XS8 OF XS11

Page 42 of 45

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

CROSS SECTIONS FOR PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4 RIGHT BANK

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
(520) 292-2300 (520) 292-1290 (FAX)

30% NOT FOR CONSTRUCTION

PIMA COUNTY W.O. 5PWFLT

T:\2PFC11020\1\ENGR\SHEETS\Cross Sections\Bank Cross Sections.dwg RIGHT BANK_06 Last Saved: Thu, 31 Oct 2013 By: Kletendre Plotted: Thursday, October 31, 2013 11:13:12 AM

110+00

113+00

111+00

114+00

112+00

114+35

STATIONING RELATIVE TO SURVEY CONTROL LINE "A"

SUZANNE SHIELDS, P.E., DIRECTOR

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

		DATE
DESIGNED:	KUL/CRJ/MED	06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

CROSS SECTIONS FOR
PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4
RIGHT BANK

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
(520) 292-2300 (520) 292-1290 (FAX)

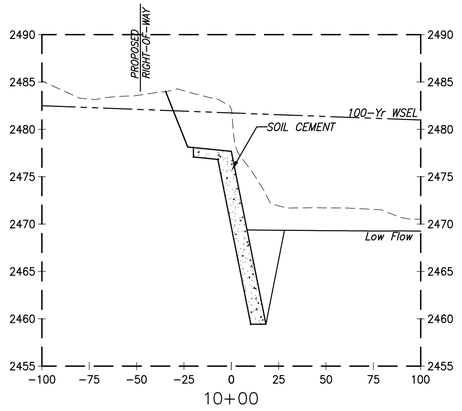
30% NOT FOR CONSTRUCTION

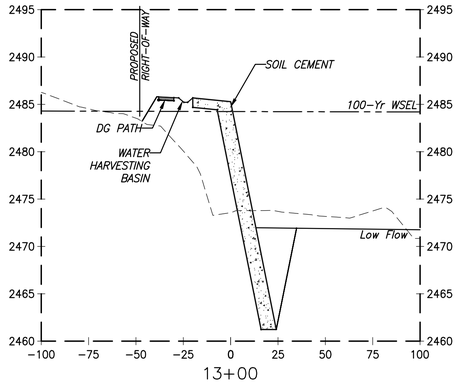
PIMA COUNTY W.O. 5PWFLT

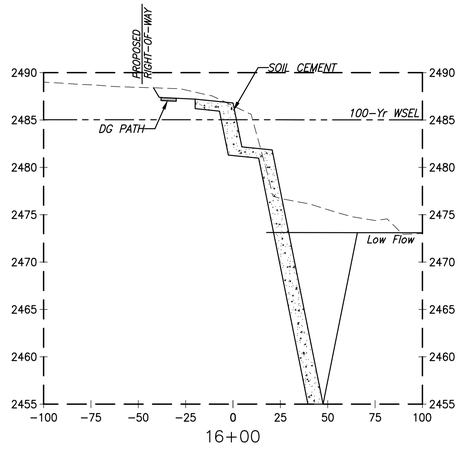
SCALES: HORIZ. 1"=40' / VERT. 1"=8'

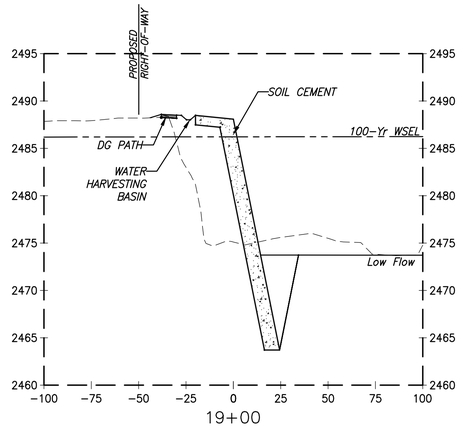
SHEET XS9 OF XS11

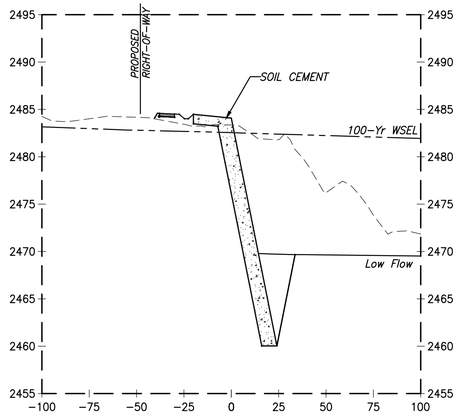
T:\7PFC10201\ENGR\SHEETS\Cross Sections\Bank Cross Sections.dwg RIGHT BANK_07 Last Saved: Thu, 31 Oct 2013 By: Kletendre Plotted: Thursday, October 31, 2013 11:13:27 AM

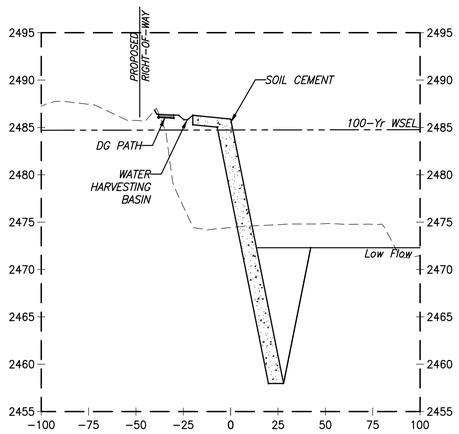


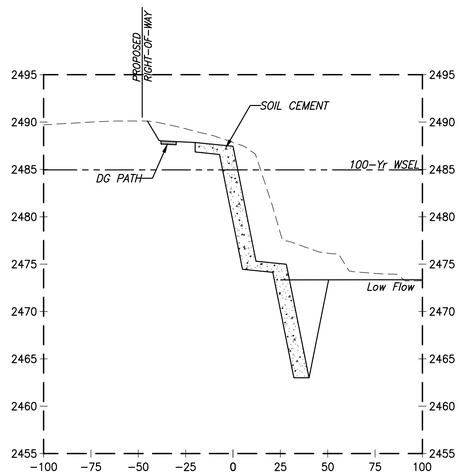


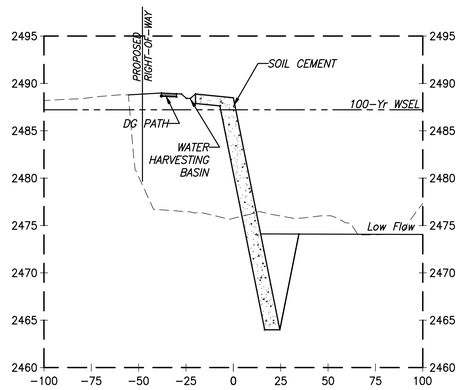


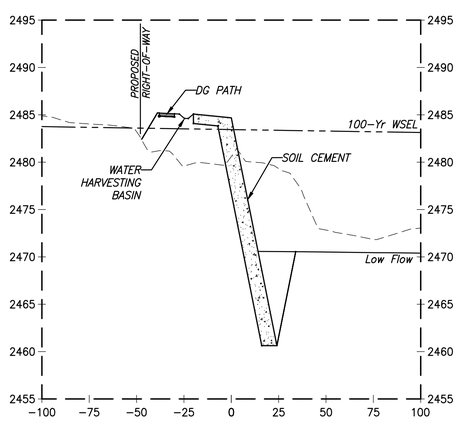


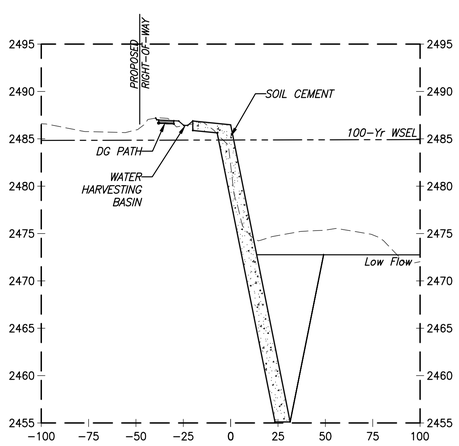


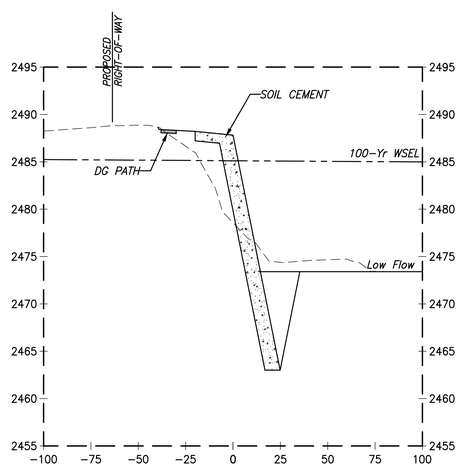


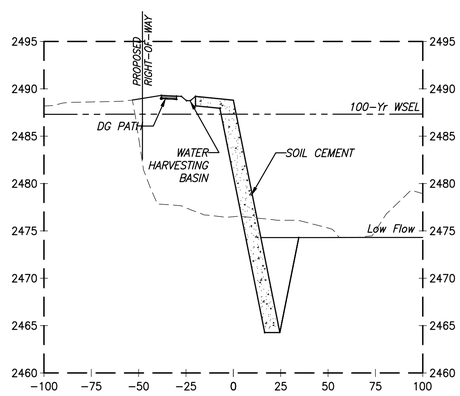












STATIONING RELATIVE TO SURVEY CONTROL LINE "B"

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET XS10 OF XS11

SUZANNE SHIELDS, P.E., DIRECTOR

	DESIGNED:	DRAWN:	CHECKED:	PROJ. ENG.:
DATE	KUL/CRJ/MED	CRJ/KUL	MED	KUL
06/2013				
06/2013				
06/2013				
06/2013				
06/2013				

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, Arizona 85705
(520) 292-2300 (520) 292-1290 (FAX)

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

CROSS SECTIONS FOR PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4

LEFT BANK

PIMA COUNTY W.O. 5PWFLT

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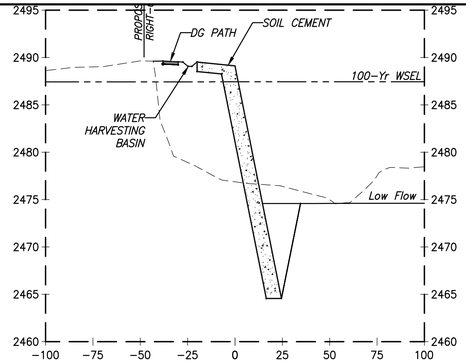

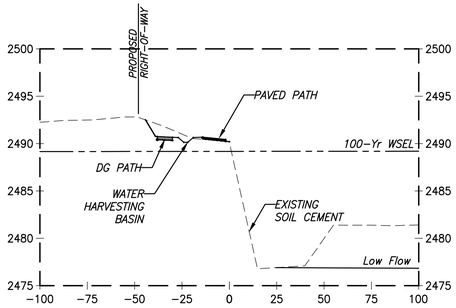

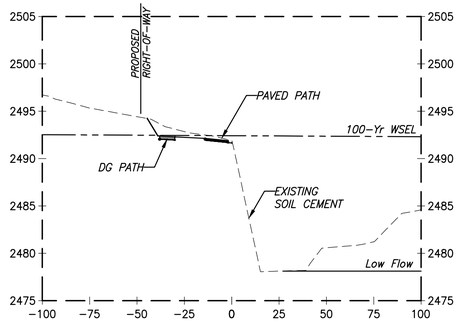

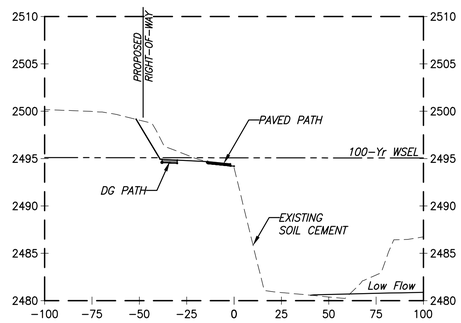

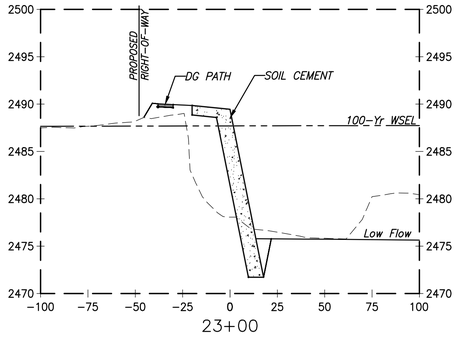

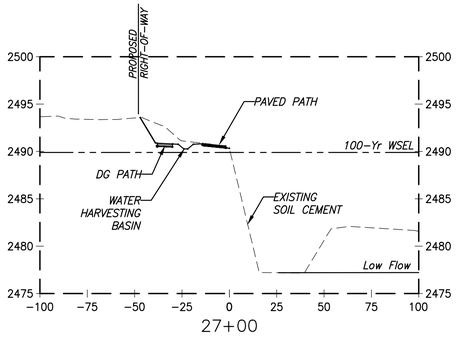

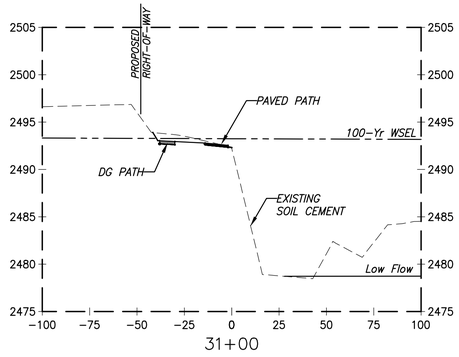

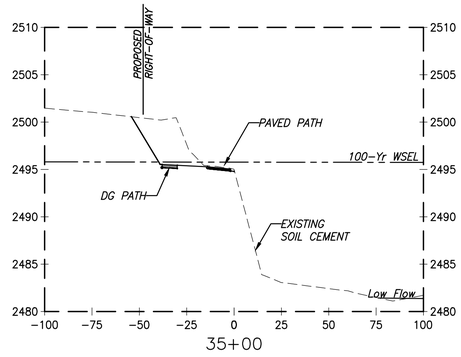

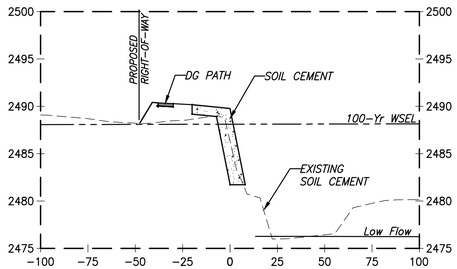

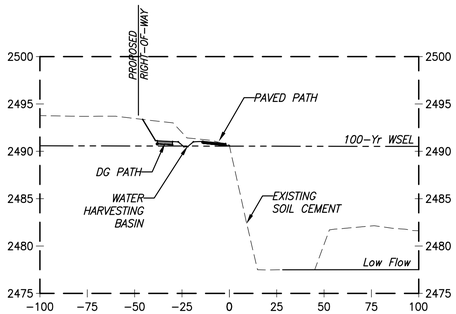

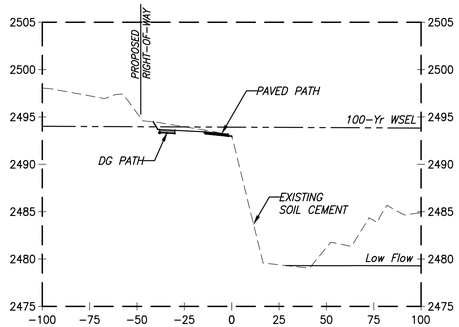

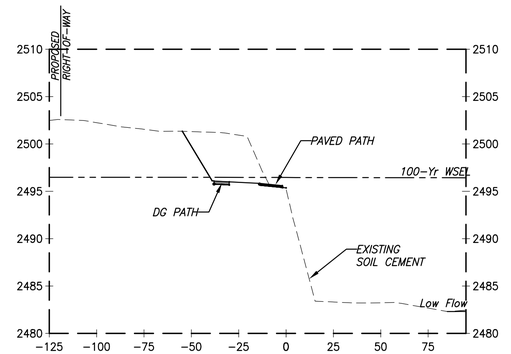

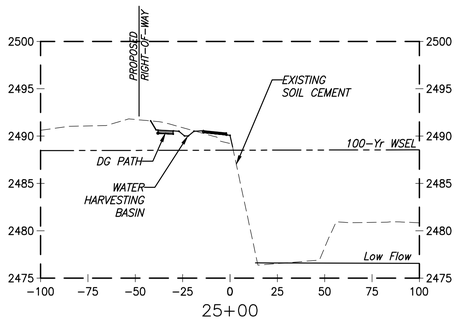

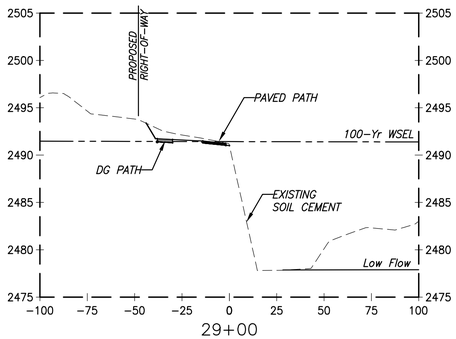

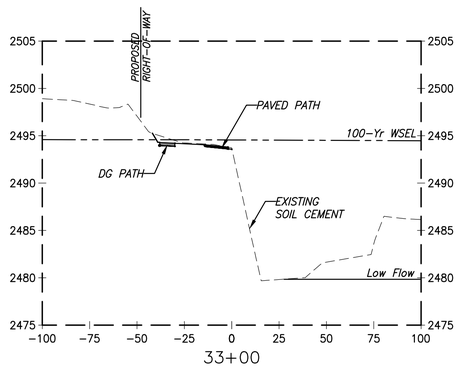

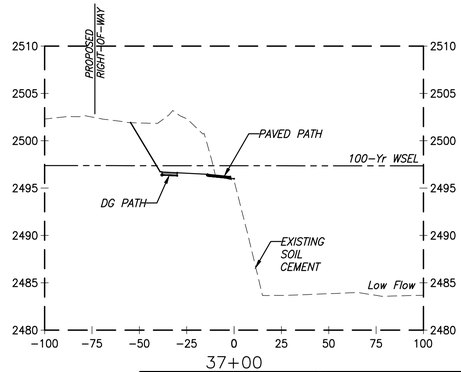

STATIONING RELATIVE TO SURVEY CONTROL LINE "B"

SUZANNE SHIELDS, P.E., DIRECTOR

DESIGNED:	KUL/CRJ/MED	DATE 06/2013
DRAWN:	CRJ/KUL	06/2013
CHECKED:	MED	06/2013
PROJ. ENG.:	KUL	06/2013
		06/2013

NO.	REVISION DESCRIPTION	DIV. ENGINEER	DATE

30% NOT FOR CONSTRUCTION

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, AZ 85705-1678
(520) 292-2300 (520) 292-1290 (FAX)

PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT

CROSS SECTIONS FOR PANTANO WASH BANK PROTECTION AND RIVER PARK – PHASE 3 & 4
LEFT BANK

PIMA COUNTY W.O. 5PWFLT

SCALES: HORIZ. 1"=40' VERT. 1"=8'

SHEET XS11 OF XS11

T:\7PFC110201\ENGR\SHEETS\Cross Sections\Bank Cross Sections.dwg LEFT BANK_02 Last Saved: Thu, 31 Oct 2013 By: Kletendre Plotted: Thursday, October 31, 2013 11:13:57 AM