



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	TEA-TUC-0(214)A		6	

TRACS NO: 0000 PM TUC SL624 01C

**GENERAL CONSTRUCTION NOTES:**

- ALL CONSTRUCTION AND TEST METHODS SHALL BE IN CONFORMANCE WITH THE PIMA COUNTY/CITY OF TUCSON STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (PC/COT CP) 2003 EDITION AND ANY AMENDMENTS THERETO. ALL WATER SYSTEM MODIFICATION CONSTRUCTION WORK SHALL CONFORM TO THE CITY OF TUCSON WATER DEPARTMENT STANDARD SPECIFICATIONS, 2001 EDITION REVISED JUNE 11, 2011 AND THE WATER SYSTEM MODIFICATION SPECIFICATIONS IN THE SPECIAL PROVISIONS AND ANY AMENDMENTS THERETO.
- ASPHALT CONCRETE SHALL CONFORM TO PC/COT CPI SECTION 406.
- ALL CONCRETE USED SHALL BE CLASS B CONCRETE PER PC/COT SPECIFICATION 1006 AND AMENDMENTS THERETO.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
- CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY GOVERNMENTAL AGENCIES.
- AN ACCEPTED COPY OF THIS PLAN SHALL BE KEPT IN AN EASILY ACCESSIBLE LOCATION ON THE SITE AT ALL TIMES DURING CONSTRUCTION.
- UPON COMMENCEMENT OF WORK, TRAFFIC CONTROL DEVICES SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE WORK IS COMPLETED. ALL WARNING SIGNS, BARRICADES AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 2009 (MUTCD 2009).
- UTILITY LOCATIONS SHOWN ON THESE PLANS WERE COMPILED BASED ON PROJECT SURVEY AND MAPPING RECEIVED FROM UTILITY PROVIDERS. UTILITY LOCATIONS ARE NOT INTENDED TO BE EXACT OR COMPLETE. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES WITH THE APPROPRIATE ORGANIZATIONS. CONTACT "BLUE STAKE" AT 1-800-782-5348 TWO FULL WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
- ALL STATIONING IS ALONG THE CONSTRUCTION CENTERLINE AND ALL MEASUREMENTS ARE MEASURED TO FACE OF CURB PER COT STANDARDS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL CALL COT DOT LANDSCAPE ARCHITECT, GARY WITTEW AT (520) 837-6618 PRIOR TO REMOVAL OF LANDSCAPE PLANTS OR IRRIGATION MATERIALS, AND PRIOR TO TRIMMING OF ANY TREE BRANCHES OR TREE ROOTS.
- SUBGRADE PREPARATION SHALL BE PER PC/COT SPECIFICATION SECTION 205 COMPACTED TO 95% DENSITY.
- EXPANSION JOINTS SHALL BE FILLED WITH 1/2" BITUMINOUS PREFORMED EXPANSION JOINT FILLER, AASHTO M 213. 1/2" BITUMINOUS PREFORMED EXPANSION JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE CONCRETE PAVEMENT.
- THE CONTRACTOR SHALL IMPLEMENT GOOD HOUSEKEEPING FOR STORMWATER POLLUTION PREVENTION PRACTICES ON-SITE DURING THE COURSE OF CONSTRUCTION. GOOD HOUSEKEEPING PRACTICES INCLUDE, BUT ARE NOT LIMITED TO: STREET SWEEPING, PERIMETER STOCKPILE CONTROLS, SOLID WASTE MANAGEMENT, EQUIPMENT MAINTENANCE PROCEDURES, CONCRETE WASHOUTS, SPILL PREVENTION, AND STORM DRAIN INLET PROTECTION.
- ANY EXCESS EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM PROJECT SITE BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- ALL SAWCUTTING OF SIDEWALK, CURB ACCESS RAMPS, CURB, SAND ASPHALT PAVEMENT SHALL BE INCIDENTAL AND INCLUDED WITHIN THE CONSTRUCTION COSTS FOR SIDEWALK, CURB ACCESS RAMPS, DRIVEWAY APRONS, HEADER CURB, AND ASPHALT PAVEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE AND MAINTENANCE OF EXISTING IMPROVEMENTS AND VEGETATION IN THE WORK AREA. PAVEMENT, CURBS, CURB ACCESS RAMPS, ALL PATHS AND ANY OTHER OBSTRUCTIONS DAMAGED DURING CONSTRUCTION ARE TO BE REPLACED BY THE CONTRACTOR. ANY UNDERGROUND PIPES, IRRIGATION LINES, IRRIGATION CONTROLS, DRAINS, STRUCTURES, OR OBSTRUCTIONS NOT SHOWN ON THESE PLANS SHALL BE MOVED, ALTERED, OR REPAIRED BY THE CONTRACTOR WHEN ENCOUNTERED, AS DIRECTED BY THE ENGINEER, AND SHALL BE CONSIDERED PART OF THIS PROJECT.
- ALL WORK WITHIN 5' OF THE EXISTING RAILROAD TRACKS SHALL BE COMPLETED WITH HAND TOOLS.
- FOR DOMESTIC WATER PIPE BEDDING AND BACKFILL REFER TO W-115 FOR INSTALLATION REQUIREMENTS.
- REFER TO SECTION 808-2.06 IN THE PIMA COUNTY/ CITY OF TUCSON STANDARD SPECIFICATIONS FOR BACKFLOW PREVENTER REQUIREMENTS.
- SOUTHWEST GAS REQUIRES A STAND-BY WHEN THE CONTRACTOR IS WORKING WITHIN TEN (10) FEET OF HIGH PRESSURE GAS FACILITIES. THE CONTRACTOR MUST CALL (520) 794-6021 TO SCHEDULE THE STAND-BY A MINIMUM OF TWENTY FOUR (24) HOURS IN ADVANCE.
- CONTRACTOR TO VERIFY LOCATION OF WATERLINE PRIOR TO INSTALLATION OF SIGN POST OR POST BARRICADE FOUNDATION.

**PIMA COUNTY REGIONAL WASTEWATER RECLAMATION NOTES:**

- ALL DESIGN STANDARDS, MATERIAL AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT'S (RWRD) 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.
- 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.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER ELEVATIONS AND ALIGNMENTS PRIOR TO CONSTRUCTION AND IMPLEMENTATION, VERIFICATION MAY REQUIRE POT-HOLDING.
- CITY OF TUCSON / PIMA COUNTY STANDARD DETAIL WMM 106 APPLIES TO THIS PROJECT.
- 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 RWRD FIELD ENGINEERING (520-740-2651) OR RWRD CONVEYANCE DIVISION (520-443-6500). ON WEEKENDS, HOLIDAYS, OR BETWEEN 5:00P.M. AND 7:00 A.A.M., IMMEDIATELY CALL RWRD CENTRAL CONTROL ROOM (CCR) AT 520-443-6048 AND REQUEST A RWRD 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 RWRD BECAUSE THE SSO ENTERED A NATURAL OR CONSTRUCTED STORM WATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY RWRD.
- 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/HCB ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED, REPAIRED, OR REROUTED, AS THE SITUATION DICTATES (CITY OF TUCSON / PIMA COUNTY STANDARD DETAIL WMM 404), AT NO EXPENSE TO THE PROPERTY OWNER OR THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST OR RECONSTRUCT ALL SANITARY SEWER MANHOLES TO FINISHED GRADE. ALL RING AND COVER ADJUSTMENTS ARE TO BE IN ACCORDANCE WITH CITY OF TUCSON / PIMA COUNTY STANDARD DETAILS WMM 304, WMM 305 OR WMM 306 (AS APPLICABLE), AND WMM 307. WHILE ADJUSTING THE MANHOLE TO FINISHED GRADE IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT RINGS AND COVERS ARE CLEANED OF ANY ALL ATTACHED MATERIALS (ASPHALT, CONCRETE, ETC.) AND THAT ANY VENT HOLES ARE OPEN AND CLEAR OF OBSTRUCTION. IF THE FRAME AND COVER ARE DAMAGED OR CANNOT BE COMPLETELY CLEANED A NEW FRAME AND COVER ARE TO BE PUT INTO PLACE. COSTS ASSOCIATED WITH THESE ACTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. REFER TO CITY OF TUCSON / PIMA COUNTY STANDARD DETAILS WMM 213.0-214.2 FOR REQUIREMENTS FOR RINGS AND COVERS.
- MANHOLE SURFACES SHALL BE CAULKED, SEALED AND COATED PER CITY OF TUCSON / PIMA COUNTY STANDARD A-3, STANDARD SPECIFICATION 509-2.09 AND ENGINEERING DIRECTIVE ENG2006-15.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLE STRUCTURES AT ALL TIMES.
- ALL LANDSCAPING LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF THE PUBLIC SANITARY SEWER AND MANHOLES SHALL BE IN ACCORDANCE WITH THE PLANTING GUIDELINES CONTAINED WITHIN CITY OF TUCSON / PIMA COUNTY STANDARD DETAIL WMM A-4.
- 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 WMM A-4.
- ALL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES SHALL BE INSTALLED SO AS TO PREVENT ALL STORM WATER, CONSTRUCTION WATER, FUELS, CHEMICALS, OR LIQUIDS TO BE DIRECTED INTO OR ONTO ANY SANITARY SEWER FACILITIES. PROTECTION OF SANITARY SEWER FACILITIES SHALL BE A PART OF THE APPROVED CONSTRUCTION SWPPP AND BEST MANAGEMENT PRACTICES. PROTECTION DEVICES SHALL BE INSTALLED AND MAINTAINED AROUND ALL POTENTIALLY AFFECTED SANITARY SEWER FACILITIES WITHIN THE PROJECT LIMITS. ADDITIONAL MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO THE USE OF RAIN STOPPERS AND MANHOLE COVERS AS DEEMED NECESSARY BY RWRD.

**LEGEND**

SYMBOL DESCRIPTION	EXIST	NEW
Centerline and Station		
Curb and Gutter		
Single Vertical Curb/EP		
Right-of-Way Line		
Chain Link Fence		
Storm Drain Pipe		
Underground Power Line		
Fiber Optic Line		
Telephone Line		
Sewer Line		
Overhead Line		
Natural Gas Line		
Water Line		
Parcel Line		
Section Line		
Barricade Rail		
Utility Valve		
Manhole		
Fire Hydrant		
Utility Pole		
Street Light/Area Light		
Existing Traffic Signal		
Post Mounted Sign		
Type B Removable Bollard		
Vegetation (See Landscape Plans)		
Pull Box		
Water Meter		
Backflow Preventer		
Asphalt Shared Use Path		
Concrete Pavement		

**ABBREVIATIONS**

Δ	Centerline
AC	Asphalt Concrete
APN	Assessor Parcel Number
Ave	Avenue
CA	Cement Asbestos
CATV	Cable Television
COMM	Communications
Const	Construction
Corr	Correlation
D	Degree of Curvature
Dtl	Detail
E	Easting
Elev	Elevation
EP	Edge of Pavement
Exst	Existing
Ext.	External
Fnd	Found
FO	Fiber Optic
G	Gas
H	Height (Curb Reveal), Horizontal
Invrt	Invert
IR	Irrigation
L	Length
Lt	Left
Max	Maximum
MH	Manhole
Min	Minimum
Mod	Modified

**ABBREVIATIONS (CONT.)**

N	Northing
NA	Not Applicable
OH	Overhead
PC	Point of Curvature
PC/COT	Pima County/City of Tucson
PCRWRD	Pima County Regional Wastewater Reclamation Department
Ped	Pedestrian
PI	Point of Intersection
PL	Property Line
POB	Point of Beginning
POE	Point of End
PP	Power Pole
PT	Point of Tangency
PVC	Point of Vertical Curvature
PVI	Point of Vertical Intersection
PVT	Point of Vertical Tangent
Pvmt	Pavement
R	Radius
R/W	Right-of-Way
Ref No.	Reference Number
Rd	Road

**ABBREVIATIONS (CONT.)**

ROW	Right-of-Way
Rt	Right
S	Slope, Sanitary Sewer
SD	Storm Drain
Sht	Sheet
SSD	Stop Sight Distance
SL	Street Light
SSO	Sanitary Sewage Overflow
SSPI	Standard Specifications for Public Improvements
Sta	Station
Std	Standard
St	Street
Stl	Steel
Struct	Structural
SW	Sidewalk
SWG	Southwest Gas
T	Tangent
TEP	Tucson Electric Power
TS	Traffic Signal

**ABBREVIATIONS (CONT.)**

Typ	Typical
UGE	Underground Electric
UGT	Underground Telephone
V	Vertical
VC	Vertical Curve
W	Width, West

**GENERAL NOTES**

PRELIMINARY <b>60% REVIEW</b> NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		2 OF 29
	EL PASO & SOUTHWESTERN GREENWAY SIMPSON STREET TO 22ND STREET		
	CITY OF TUCSON	DRWN. BY C. ESPINOZA 05/2012 REF. SCALE: N/A	
	DSGN. BY C. ESPINOZA 05/2012	CHKD. BY R. DUENAS 05/2012	PLAN NO. U-2008-006



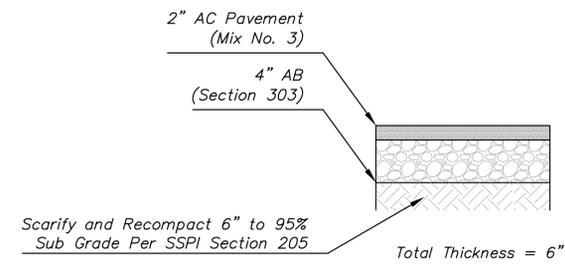
**Kimley-Horn and Associates, Inc.**  
333 East Wetmore Road, Suite 280  
Tucson, Arizona 85705 (520) 615-9191

NO.	DATE	REVISION	BY	CHKD.	APPR.
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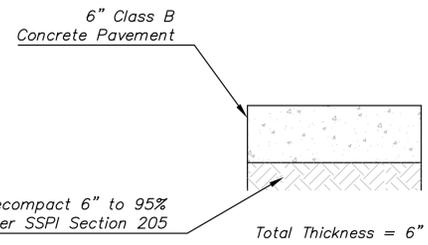
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	TEA-TUC-0(214)A		6	

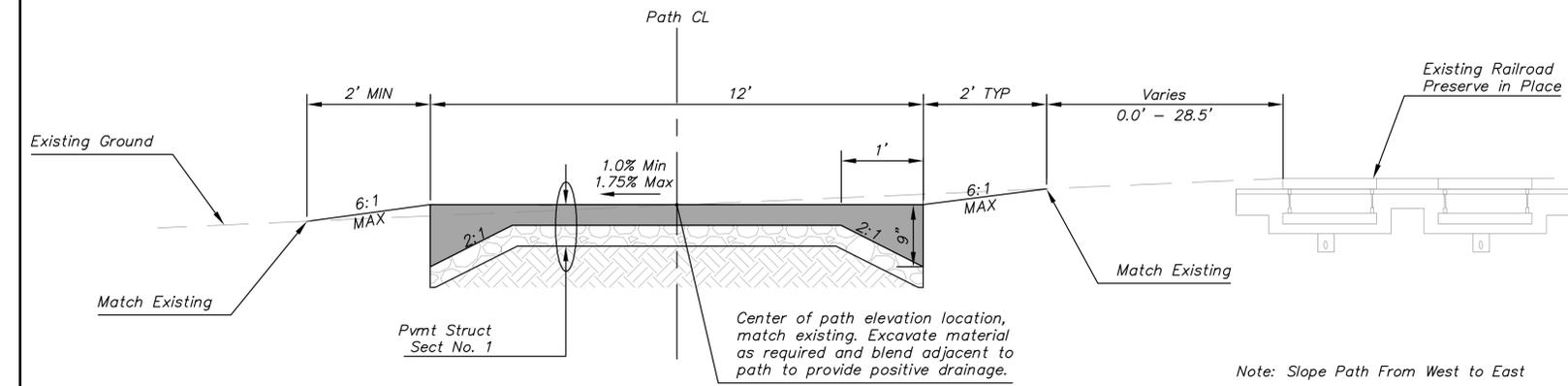
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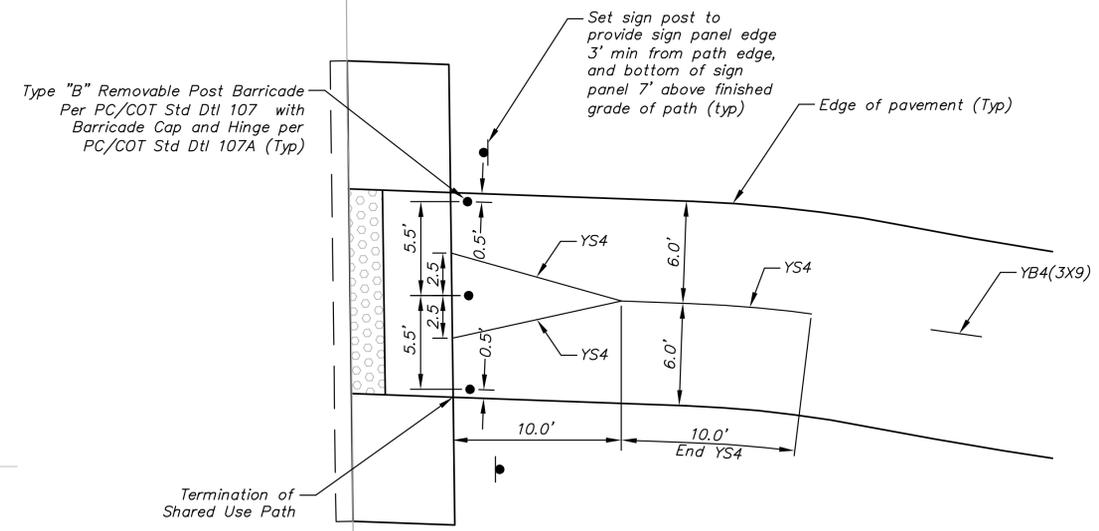
STRUCTURAL SECTION NO. 1  
ASPHALT SHARED USE PATH



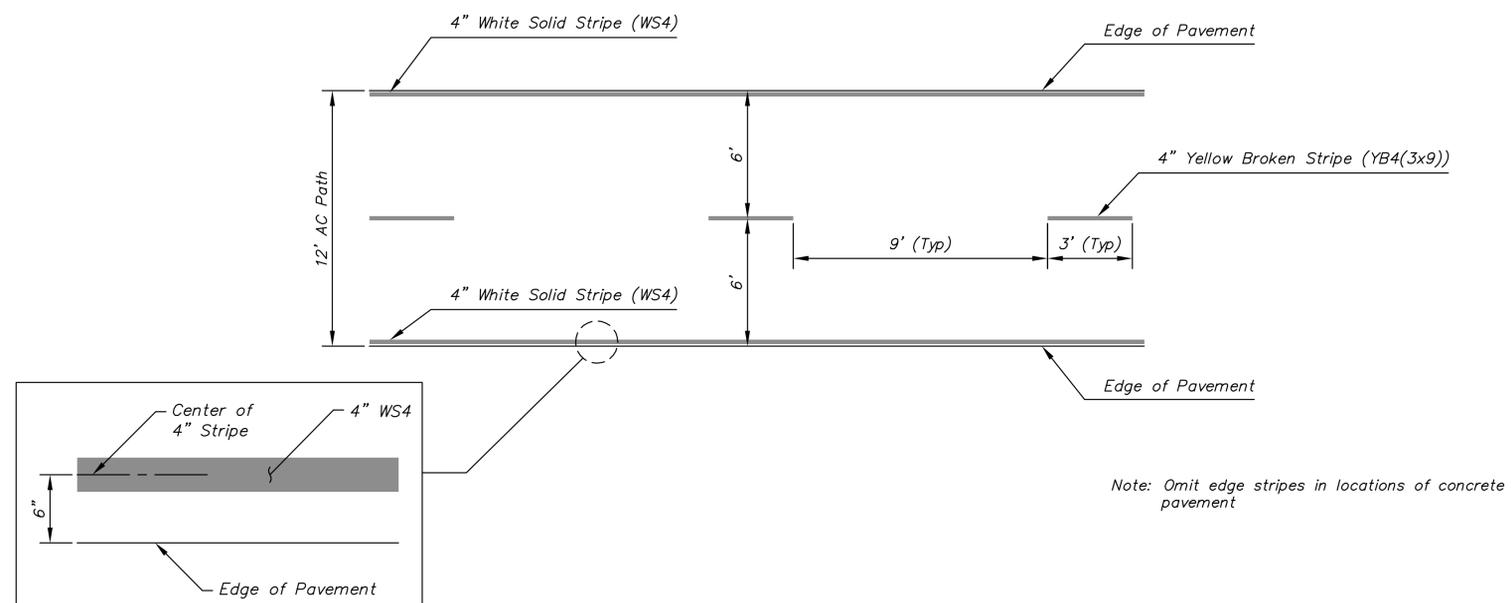
STRUCTURAL SECTION NO. 2  
CONCRETE SHARED USE PATH



TYPICAL ASPHALT SHARED USE PATH  
WITH THICKENED EDGE TREATMENT



REMOVABLE TYPE "B" POST  
BARRICADE LAYOUT DETAIL



TYPICAL ASPHALT SHARED USE PATH  
STRIPING LAYOUT DETAIL

TYPICAL SECTIONS AND DETAILS

PRELIMINARY 60% REVIEW NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		3 OF 29
	EL PASO & SOUTHWESTERN GREENWAY SIMPSON STREET TO 22ND STREET		
	CITY OF TUCSON	DRWN. BY C. ESPINOZA 05/2012 REF. SCALE: N/A DSGN. BY C. ESPINOZA 05/2012 CHKD. BY R. DUENAS 05/2012 PLAN NO. U-2008-006	



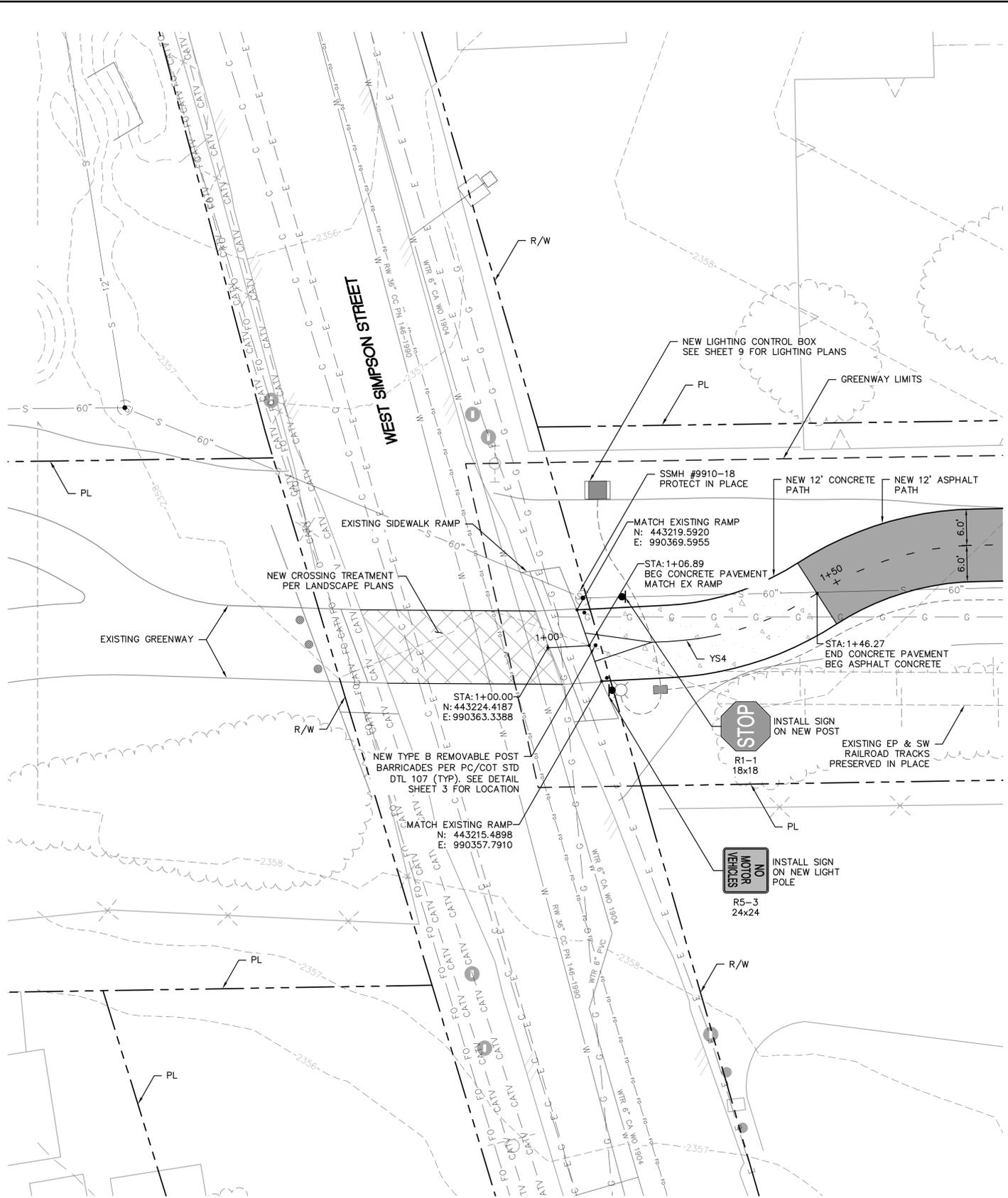
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NO.	DATE	REVISION	BY	CHKD.	APPR.
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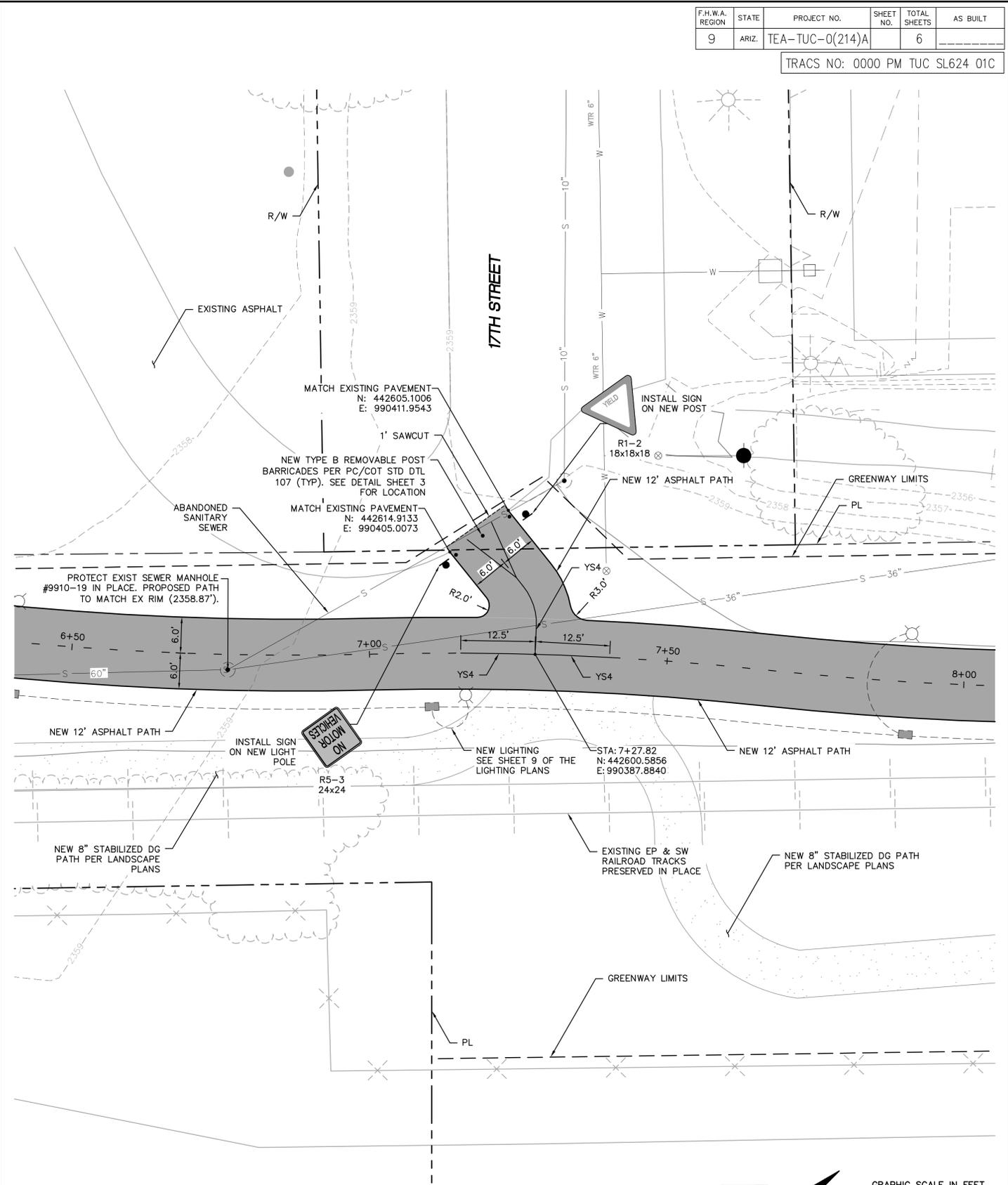
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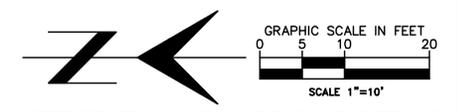




**SIMPSON STREET  
DETAIL**  
SCALE: 1" = 10'

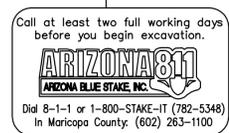


**18TH STREET DETAIL**  
SCALE: 1" = 10'



**INTERSECTION AND CURB RAMP DETAILS**

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		6 OF 29	
<b>EL PASO &amp; SOUTHWESTERN GREENWAY SIMPSON STREET TO 22ND STREET</b>			
	DRWN. BY C. ESPINOZA	05/2012	REF. SCALE: 1"=10' H
	DSGN. BY C. ESPINOZA	05/2012	N/A
	CHKD. BY R. DUENAS	05/2012	PLAN NO. U-2008-006

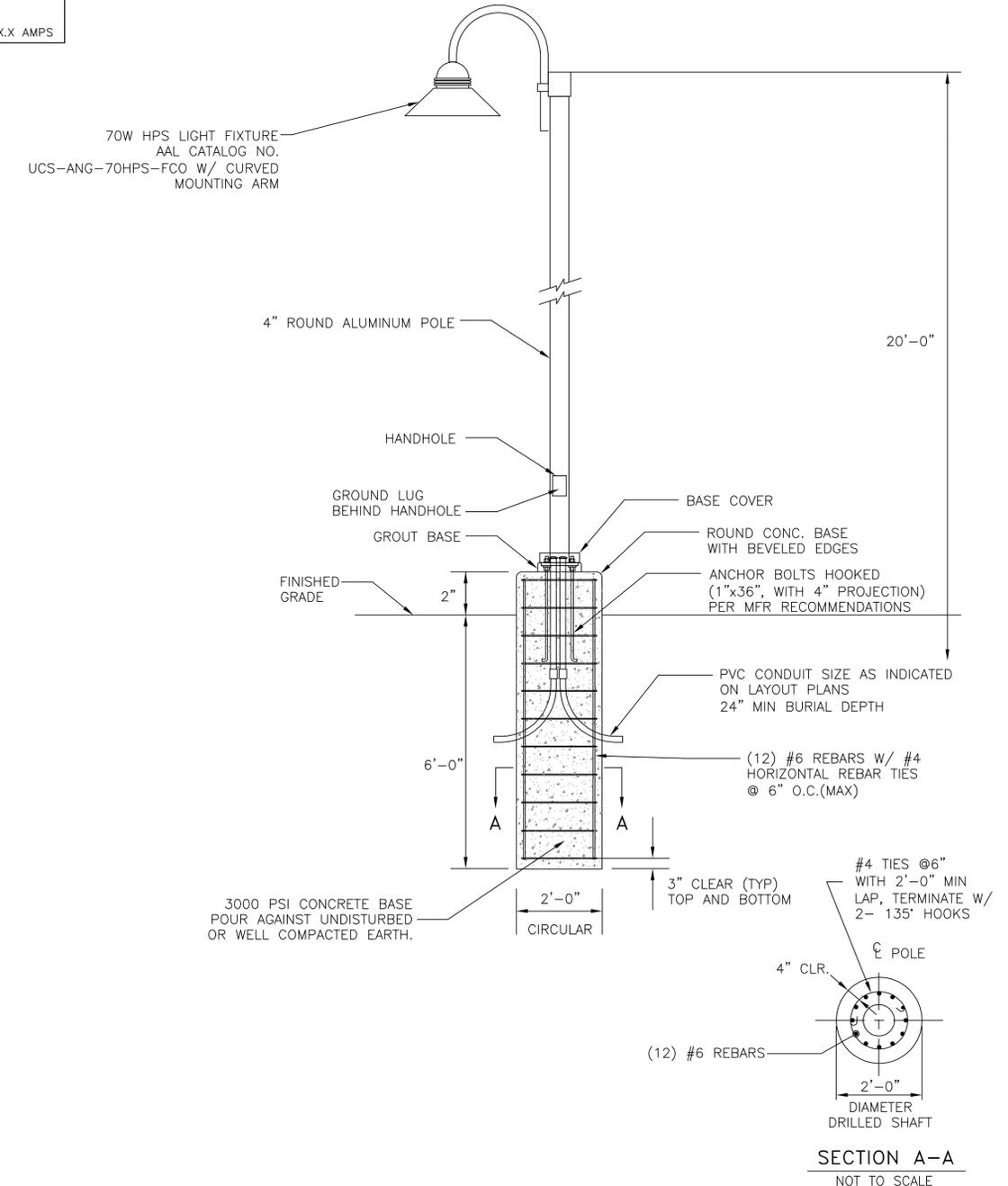


ELECTRICAL GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH STATE AND COUNTY STATUTES ALONG WITH THE MANUFACTURER'S RECOMMENDATIONS. MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT STANDARDS AND RECOMMENDATIONS OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE, AND WITH LOCAL CODES WHICH APPLY. WHERE DISCREPANCIES ARISE BETWEEN CODES, THE MOST RESTRICTIVE REGULATION SHALL APPLY.
- PRIOR TO SUBMITTING A PROPOSAL, THE BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL OPERATE. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONNECTION WITH OR ON BEHALF OF THE CONTRACTOR FOR ANY ERRORS OR NEGLIGENCE ON HIS PART.
- PRIOR TO BEGINNING ANY WORK, SECURE NECESSARY PERMITS OR CLEARANCES FROM THE AUTHORITIES HAVING JURISDICTION. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE INSTALLATION. WORK SHALL BE EXECUTED BY EXPERIENCED ELECTRICIANS WHO ARE LICENCED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.
- PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE RESIDENT ENGINEER. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL THE RESIDENT ENGINEER RENDERS A DECISION. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR THE DIFFERENCES IN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LICENSING REQUIREMENTS SET FORTH BY THE STATE REGISTRAR OF CONTRACTORS' OFFICE TO PERFORM WORK RELATING TO STREET LIGHT INSTALLATION IN PIMA COUNTY.
- THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- CONTRACTOR SHALL SUBMIT FOUR (4) COPIES OF MANUFACTURER'S CERTIFIED SHOP DRAWINGS FOR EQUIPMENT TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING EQUIPMENT OR STARTING WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.
- THE PLANS SHOW THE GENERAL PATH AND LOCATION OF CONDUIT AND PULL BOXES IN RELATION TO MAJOR PHYSICAL FEATURES. THE CONTRACTOR SHALL NOTE THAT ELEMENT LOCATIONS ARE APPROXIMATE AND MAY CHANGE DURING CONSTRUCTION. THESE CHANGES MAY RESULT IN CHANGES TO CONDUIT LENGTHS ALONG WITH MINOR QUANTITY CHANGES.
- CONTRACTOR SHALL STAKE ALL PROPOSED PEDESTRIAN LIGHT LOCATIONS AND OBTAIN APPROVAL FROM THE RESIDENT ENGINEER PRIOR TO ANY INSTALLATION ACTIVITIES.
- HOLES, CAVITIES, TRENCHES, AND DEPRESSIONS RESULTING FROM THE REMOVAL OF STRUCTURES OR OBSTRUCTIONS, EXCEPT IN AREAS TO BE EXCAVATED, SHALL BE BACKFILLED WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698, D-2922 AND D-3017. SURPLUS EXCAVATION MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
- ALL CONDUCTORS SHALL BE IDENTIFIED AT ALL PULL BOXES, LOAD CENTERS AND FIXTURES. ALL WIRING DEVICES SHALL HAVE A TAG ON BACK OF THE COVERPLATE IDENTIFYING THE PANEL AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
- ELECTRICAL SYSTEMS SHALL BE GROUNDED AND BONDED PER ARTICLE 250 OF THE NATIONAL ELECTRIC CODE. PROVIDE GROUND WIRE FOR EACH PIECE OF EQUIPMENT AND FOR EACH BRANCH CIRCUIT.
- EACH PEDESTRIAN LIGHT POLE SHALL HAVE A 8' X 5/8" COPPER CLAD GROUND ROD DRIVEN BENEATH PULL BOX. A #6 BARE COPPER LEAD FROM THE GROUND ROD IN PULL BOX TO LANDING LUG IN LIGHT POLE HAND HOLE IS REQUIRED.
- FOR MATERIAL INSTALLED AND/OR WORK PREFORMED PRIOR TO APPROVAL, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST IF IN THE OPINION OF THE ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE PLANS AND/OR SPECIFICATIONS.
- INSTALLATION OF EQUIPMENT, COMPONENTS, AND WIRING SHALL FOR ELECTRICAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE EQUIPMENT MANUFACTURER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, AND HANDLING OF ALL MATERIALS AND EQUIPMENT PRIOR TO FINAL ACCEPTANCE. ANY DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- ALL EQUIPMENT SHALL BE "UL" LISTED. LABEL OR LISTING OF UNDERWRITER'S LABORATORIES, INC. WILL BE ACCEPTED AS EVIDENCE THAT MATERIALS OR EQUIPMENT CONFORM TO APPLICABLE STANDARDS OF THAT AGENCY.
- PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL ENERGIZE AND OPERATE THE ENTIRE LIGHTING SYSTEM, FROM SUNSET TO SUNRISE FOR TWO (2) CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF ANY EQUIPMENT OR MATERIAL SHOULD FAIL, IT SHALL BE REPLACED IMMEDIATELY AND RETESTED.
- THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE, AGAINST DEFECTS IN WORKMANSHIP, FAILURE, MALFUNCTION OF MATERIALS AND/OR EQUIPMENT. THIS GUARANTEE IS TO BE IN WRITING TO THE RESIDENT ENGINEER AT THE TIME OF ISSUING FINAL ACCEPTANCE. WORK FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD SHALL BE REPLACED WITHOUT COST TO THE OWNER.
- "AS-BUILT" DRAWING REQUIREMENTS SHALL CONSIST OF RECORDING, BY THE CONTRACTOR, ANY CHANGE OR DEVIATION ON A SET OF APPROVED PLANS. PLANS SHALL BE FURNISHED TO THE INSPECTOR AT THE COMPLETION OF THE PROJECT. CONTRACTOR SHALL COORDINATE INSPECTION WITH RESIDENT ENGINEER. FINAL PAYMENT SHALL NOT BE MADE UNTIL THE AS-BUILT PRINTS ARE ACCEPTED BY THE RESIDENT ENGINEER.
- TRENCH, CONDUIT, AND PULL BOXES SHALL BE FURNISHED AND INSTALLED PER PIMA COUNTY STANDARD SPECIFICATIONS AND STANDARD DETAILS FOR PUBLIC IMPROVEMENTS, LATEST EDITION AND ANY APPROVED/ACCEPTED AMENDMENT OR REVISION.

PANEL VOLTAGE: 120/240V		AIC RATING: 22,000									
PHASE/WIRE: 1PH/3W		MOUNTING: PAD MOUNT									
BUS/MAIN(AMPS): 100A/MCB											
CKT NO.	O.C.D.	DESCRIPTION	COND SIZE	LOAD (kVA)	PHASE (kVA)		LOAD (kVA)	DESCRIPTION	COND SIZE	O.C.D.	CKT NO.
					A	B					
1	---	XXX	#X AWG	X.X	X.X	X.X	X.X	XXX	#X AWG	---	2
3	---	XXX	#X AWG	X.X	X.X	X.X	X.X	XXX	#X AWG	---	4
5	---	XXX	#X AWG	X.X	X.X	X.X	X.X	XXX	#X AWG	---	6
7	---	XXX	#X AWG	X.X	X.X	X.X	X.X	XXX	#X AWG	---	8
9	---	XXX	#X AWG	X.X	X.X	X.X	X.X	XXX	#X AWG	---	10
11	---	XXX	#X AWG	X.X	X.X	X.X	X.X	XXX	#X AWG	---	12
SUB-TOTAL CONNECTED LOAD (kVA)					X.X	X.X					
TOTAL CONNECTED LOAD (kVA):					0.0 kVA						
DEMAND FACTOR:					1.25						
TOTAL DEMAND LOAD (kVA):					0.0 kVA		TOTAL AMPS: 0.0kVA/240V = X.X AMPS				

LIGHTING CONTROLLER PANEL SCHEDULE



POLE AND FOUNDATION DETAIL

NOT TO SCALE

LIGHTING NOTES SHEET

PRELIMINARY 60% REVIEW NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		8 OF 29
	EL PASO & SOUTHWESTERN GREENWAY SIMPSON STREET TO 22ND STREET		
CITY OF TUCSON	DRWN. BY C. ESPINOZA	05/2012	REF. _____ SCALE: 1"=40' H
	DSGN. BY C. ESPINOZA	05/2012	_____ N/A
CHKD. BY R. DUENAS	05/2012	PLAN NO. U-2008-006	

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-11 (782-5348)  
In Maricopa County: (602) 263-1100

**Kimley-Horn and Associates, Inc.**

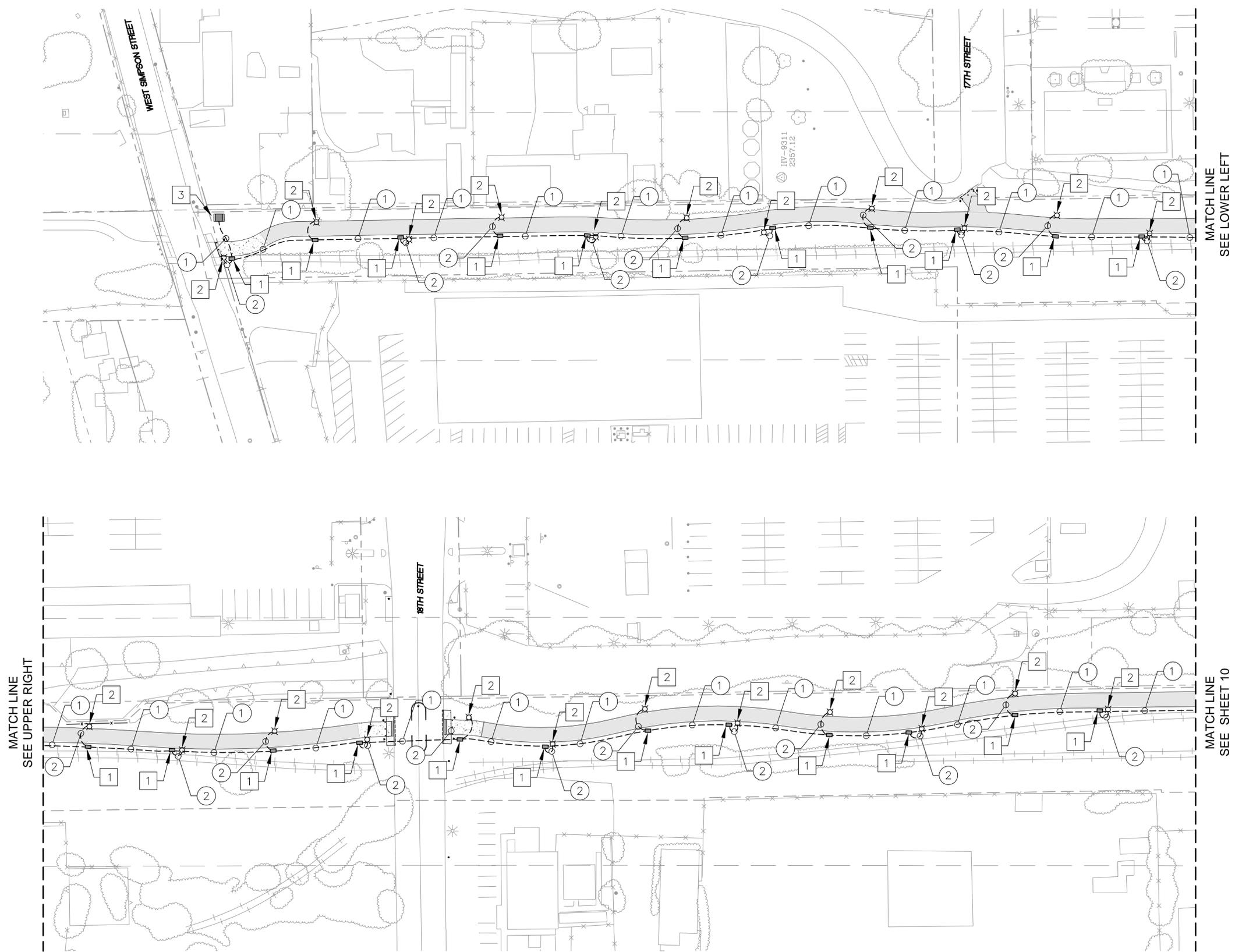
© 2012 KIMLEY-HORN AND ASSOCIATES, INC.  
333 East Wetmore Road, Suite 280  
Tucson, Arizona 85705 (520) 615-9191

NO.	DATE	REVISION	BY	CHKD.	APPR.
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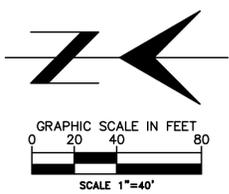
KEYNOTES		
KEYNOTE	ITEM	DETAIL
1	#5 PULL BOX	SEE CITY OF TUCSON & PIMA COUNTY STD DETAILS
2	20' PEDESTRIAN LIGHT POLE	SEE DETAIL ON SHEET 8
3	LIGHTING CONTROLLER CABINET	SEE DETAIL ON SHEET 8

CONDUIT AND CONDUCTOR SCHEDULE					
CONDUIT RUN	1	2	3		
CONDUIT SIZE (INCHES)	2"	1"			
NO. 12 AWG					
NO. 12 AWG GROUND					
NO. 8 AWG					
NO. 8 AWG GROUND					
NO. 6 AWG					
NO. 6 AWG GROUND					
SPARE CONDUIT WITH PULL ROPE FOR FUTURE					

- STREET LIGHTING LEGEND:
-  LIGHTING CONTROL CABINET
  -  PROPOSED PEDESTRIAN LIGHT ASSEMBLY
  -  PROPOSED PULL BOX
  -  CONDUIT/CONDUCTOR CALLOUT  
X = RUN NO.
  -  CONSTRUCTION NOTE CALLOUT  
Y = NOTE NO.
  -  PROPOSED PVC STREET LIGHT CONDUIT RUN



K:\TUC\_Roadway\08134026\_EP&SW\_Greenway\CA00\60%\_from\_SanDiego\134026-LT02.dwg, Jul 18, 2012, Andrew.Venne  
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Call at least two full working days before you begin excavation.

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NO.	DATE	REVISION	BY	CHKD.	APPR.

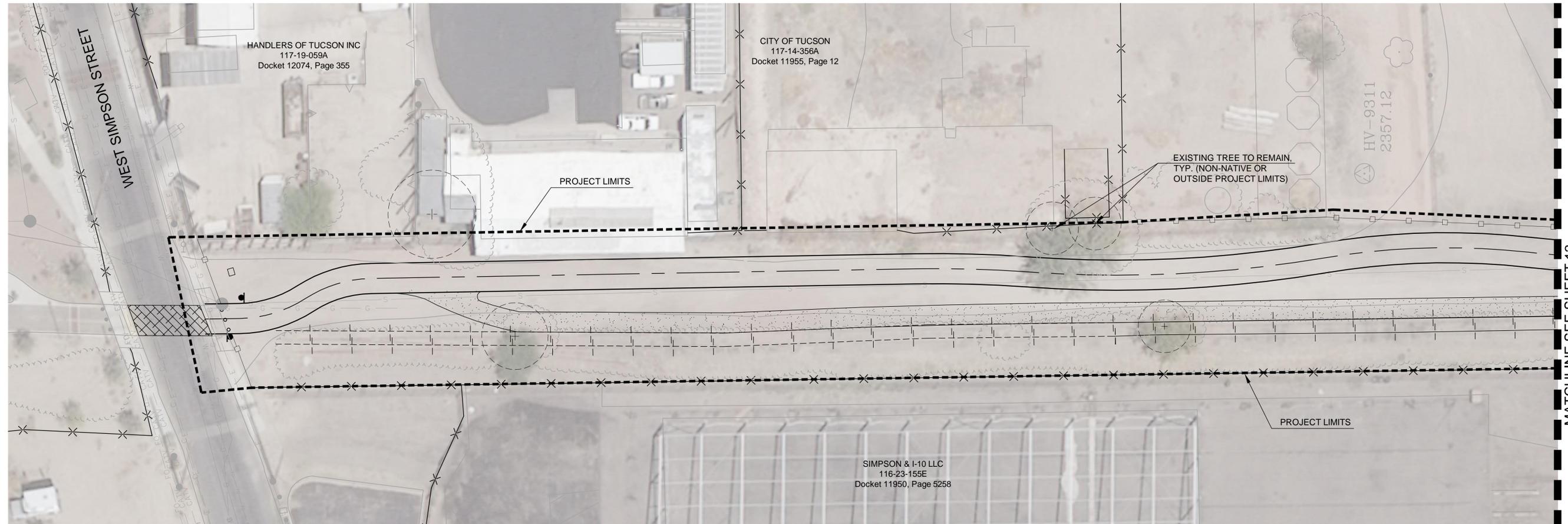
PRELIMINARY  
60%  
REVIEW  
NOT FOR  
CONSTRUCTION  
OR RECORDING

LIGHTING PLAN SHEET			
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			
EL PASO & SOUTHWESTERN GREENWAY SIMPSON STREET TO 22ND STREET			
	DRWN. BY C. ESPINOZA	05/2012	REF. SCALE: 1"=40' H.
	DSGN. BY C. ESPINOZA	05/2012	N/A
	CHKD. BY R. DUENAS	05/2012	PLAN NO. U-2008-006
			9 OF 29



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	TEA-TUC-0(214)A		6	-----

TRACS NO: 0000 PM TUC SL624 OIC



MATCHLINE SEE SHEET 12

**SITE OVERVIEW:**

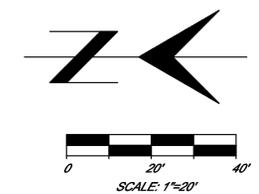
THE SITE IS PROPOSED FOR THE DEVELOPMENT OF A 12' WIDE ASPHALT PATH AND 8' WIDE SOFT PATH FROM SIMPSON STREET TO 22ND STREET (3,000 LINEAR FEET). THE PLANT INVENTORY METHODOLOGY WAS USED FOR THIS NATIVE PLANT PRESERVATION PLAN. THE SITE HAS SIGNIFICANT DISTURBANCE ASSOCIATED WITH ITS FORMER USE AS A RAILROAD CORRIDOR. EVIDENCE OF REMAINING TRACKS EXISTS THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT. DRAINAGE CHANNELS TO THE EAST SUPPORT THE MAJORITY OF THE VEGETATION IN THE PROJECT AREA. WITHIN THE PROJECT LIMITS, EXISTING VEGETATION IS LARGELY LIMITED TO THE AREA BETWEEN THE EXISTING TRACKS. VEGETATION ON-SITE PRIMARILY CONSISTS OF SCATTERED NATIVE MESQUITE TREES AND MEXICAN PALO VERDE (CONSIDERED AN INVASIVE SPECIES).

**NOTES:**

- THIS PLAN HAS BEEN PREPARED PER THE REQUIREMENTS OF CITY OF TUCSON DEVELOPMENT STANDARD NO. 2-15.0. NATIVE PLANT PRESERVATION STANDARD. IN APRIL 2012, KIMLEY-HORN AND ASSOCIATES, INC. PERFORMED A FIELD INVENTORY AND ANALYSIS OF ALL PROTECTED NATIVE PLANTS AND ARIZONA SAFEGUARDED SPECIES PER SEC. 3.8.5 OF THE LUC, FOR TREES (4" CALIPER OR GREATER) AND CACTI AS REQUIRED, WITHIN THE PROJECT LIMITS. THE PLANT INVENTORY METHOD WAS USED.
- ALL INVENTORIED PLANTS HAVE BEEN FIELD TAGGED WITH AN INVENTORY NUMBER ON METAL TAGS AND THEIR LOCATIONS AND NUMBERS ARE SHOWN ON THIS SHEET. THE NUMBERS ALSO CORRESPOND WITH THE INVENTORY LIST IN THIS PLAN SET. ALSO PER THE CODE, COLORED RIBBON HAS BEEN ATTACHED TO THE PLANTS TO INDICATE THEIR PLANNED DISPOSITION, AS FOLLOWS:  
  
 WHITE: PROPOSED FOR PRESERVATION IN PLACE  
 BLUE: PROPOSED FOR TRANSPLANTING ON SITE  
 YELLOW: PROPOSED FOR REMOVAL FROM SITE
- TAGS REQUIRED BY THE PLANT PRESERVATION MANUAL HAVE BEEN APPLIED IN A CONSISTENT AND VISIBLE LOCATION ON EACH PLANT. AN INSPECTION TO CONFIRM CONFORMANCE WITH THE APPROVED PLAN WILL BE PERFORMED BY THE ON-SITE MONITOR PRIOR TO DISTURBANCE.
- ALL SALVAGE AND TRANSPLANTING OPERATIONS WILL BE PERFORMED BY A LANDSCAPE CONTRACTOR LICENSED IN THE STATE OF ARIZONA.
- PROFESSIONAL STANDARDS AND PROFESSIONAL PRACTICES FOR THE SALVAGING AND TRANSPLANTING OF PROTECTED NATIVE PLANTS WILL BE FOLLOWED.
- ONLY BOXED FIELD GROWN PLANTS THAT HAVE BEEN HARDENED IN PLACE BEFORE REMOVAL, AND NURSERY-GROWN PLANTS WILL BE USED AS REPLACEMENT PLANTS.

**NOTES CONT:**

- ALL TRANSPLANTED SPECIMENS WILL BE IN GOOD HEALTH AND CONDITION, PLANTED IN ASSOCIATION WITH NURSE PLANTS WHEN REQUIRED TO ASSURE SURVIVABILITY, AND IRRIGATED AND MAINTAINED TO ENSURE THEIR SURVIVAL AND HEALTH FOR THE DURATION OF ANY STAY IN A TEMPORARY HOLDING AREA AND IN THEIR PERMANENT LOCATION ON SITE. PRESERVED IN PLACE PLANTS MAY SERVE THE FUNCTION OF NURSE PLANTS. ALL TEMPORARY HOLDING AREAS SHALL BE OUT OF THE WAY OF GENERAL CONSTRUCTION ACTIVITIES AND SHALL BE SECURED BY PROTECTIVE FENCING AND BARRICADES. PLANTS THAT DO NOT SURVIVE THEIR STAY IN THE TEMPORARY HOLDING AREAS SHALL BE REPLACED WITH LIKE SPECIES AND SIZE.
- ON-SITE MONITORING OF ALL ASPECTS OF SITE CLEARING, GRADING, PLANT PROTECTION, PRESERVATION, SALVAGE, AND MITIGATION SHALL BE PROVIDED DURING PROJECT CONSTRUCTION AT THE EXPENSE OF THE OWNER. THE MONITORING SHALL BE PERFORMED BY AN INDIVIDUAL WHO IS QUALIFIED IN ARID LANDS NATIVE PLANT RESOURCE IDENTIFICATION AND PROTECTION AS SPECIFIED IN SEC. 3.8.4. GENERAL PROVISIONS AND REQUIREMENTS. THE MONITOR SHALL PROVIDE PERIODIC PROGRESS REPORTS TO THE DEVELOPER OUTLINING THE STATUS OF WORK ACCOMPLISHED AND ANY PROBLEMS ENCOUNTERED. A COPY OF THESE REPORTS SHALL BE SUBMITTED TO THE DEVELOPMENT SERVICES DEPARTMENT (DSD) FOR THE PROJECT FILE. (ORD. NO. 9392, §1, 5/22/00)
- PROTECTIVE FENCING AND BARRICADES: FOR THE DURATION OF THE DEVELOPMENT PROJECT, TEMPORARY PHYSICAL BARRIERS, MINIMUM FOUR FEET (4') HIGH ABOVE GRADE, WILL BE ERECTED AROUND ALL SITE GRADING BOUNDARIES, ALL SET-ASIDE AREAS, PRESERVED IN PLACE AND TRANSPLANTED SPECIMENS, AND REPLACEMENT PLANTS IDENTIFIED IN THIS PARAGRAPH REGARDLESS OF WHETHER OR NOT A BONUS CREDIT IS CLAIMED. T-POSTS SHALL BE IMBEDDED A MINIMUM OF 12" AT MAXIMUM 50' ON CENTER. A CONTINUOUS 3/8" HIGH VISIBILITY ROPE WITH REGULAR FLAGGING AT 15' ON CENTER SHALL FORM A CONTINUOUS BARRIER AROUND PLANTS. THE PURPOSE OF THE FENCING AND BARRIERS IS TO PROVIDE PROTECTION AGAINST GROUND DISTURBANCE AND DAMAGE FROM THE IMPACTS OF CONSTRUCTION ACTIVITY AND THE DEVELOPMENT PROCESS. GRADING WILL NOT ENCR OACH INSIDE THE FENCED AND BARRICADED AREAS. THE CONTRACTOR WILL MAINTAIN THIS "NO DISTURBANCE" AREA FROM WHICH NO PLANTS WILL BE REMOVED. PHYSICAL BARRIERS SO ERECTED WILL EXTEND BEYOND THE DRIP LINE OF SPECIMENS INSIDE GRADING AREAS AND SPECIMENS LOCATED ON THE BOUNDARY OF SET-ASIDE AND GRADING AREAS FOR A DISTANCE EQUAL TO OR GREATER THAN ONE-QUARTER (1/4) OF THE WIDTH OF THE SPECIMEN TREE. PRESERVED IN PLACE AND REPLACEMENT SPECIMEN TREES WITH A CALIPER GREATER THAN TWELVE INCHES (12") LOCATED INSIDE GRADING AREAS WILL BE PROTECTED DURING THE DEVELOPMENT PROCESS BY FENCING ERECTED IN CONFORMANCE WITH THE REQUIREMENTS OF THIS PARAGRAPH. FENCING AND BARRICADES REQUIRED BY THIS PARAGRAPH WILL REMAIN THROUGHOUT THE CONSTRUCTION AND DEVELOPMENT PROCESS.

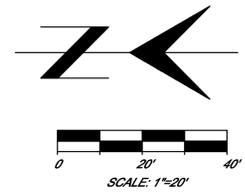
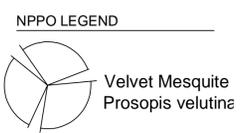
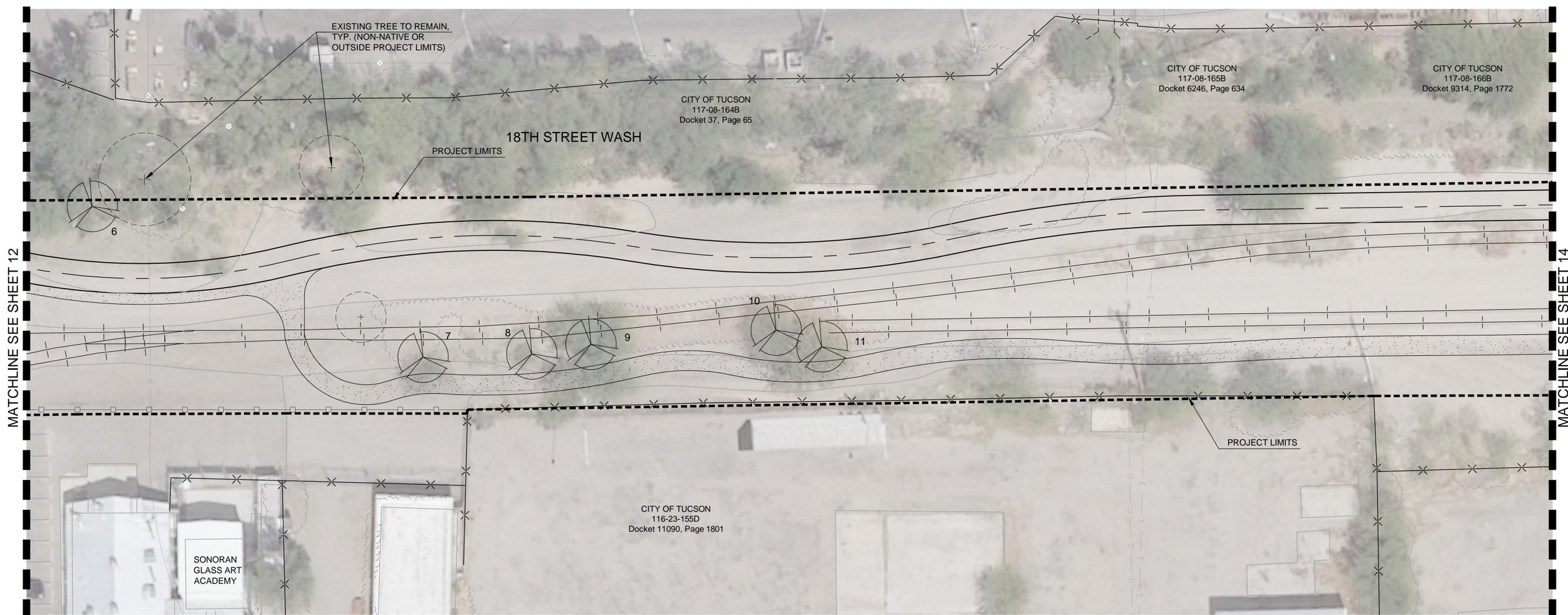


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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	TEA-TUC-0(214)A		6	-----

TRACS NO: 0000 PM TUC SL624 OIC



K:\TUC - Roadway\098154096\_EPA\SW\_Coverage\CAD\134026-NPP.dwg, Jul 19, 2012, Andrew Varrin  
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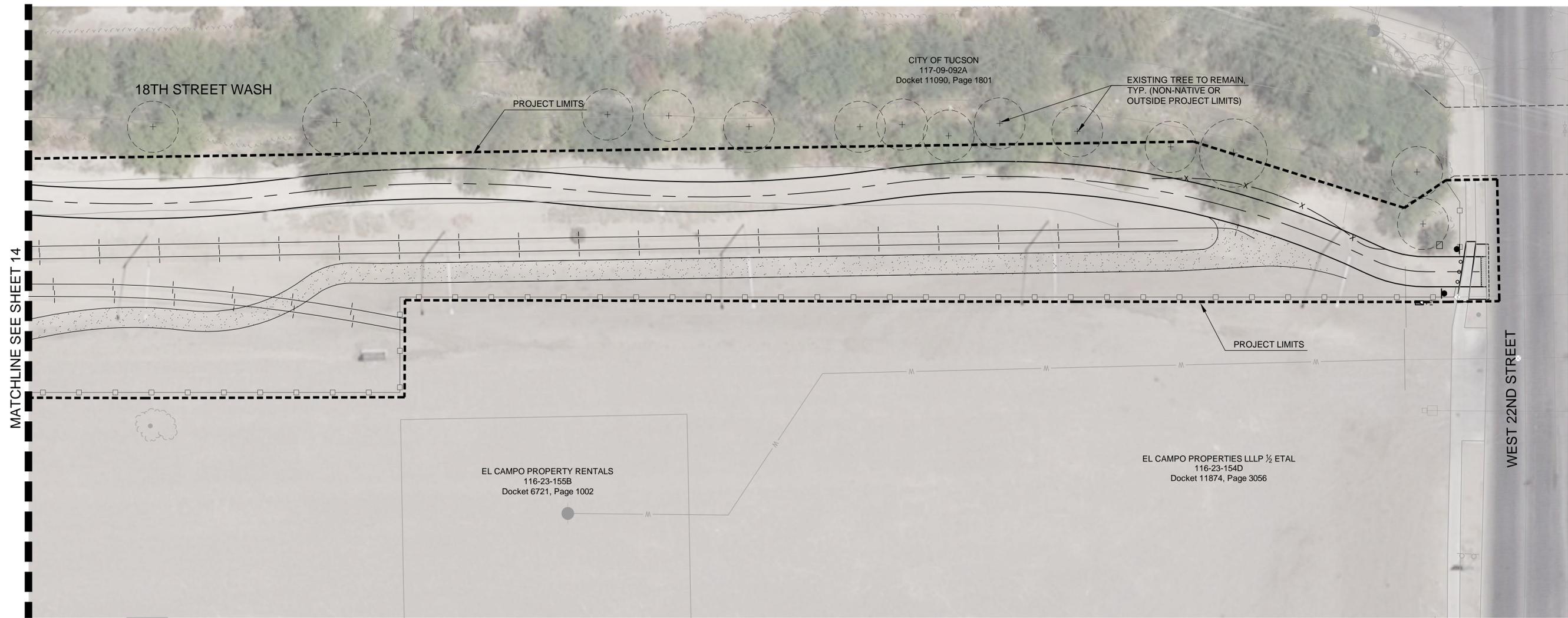
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Tucson, Arizona 85705 (520) 615-9191

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

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				13 OF 29
EL PASO & SOUTHWESTERN GREENWAY SIMPSON STREET TO 22ND STREET				
	DRWN. BY A. Venne	05/2012	REF.	SCALE: 1" = 20' H
	DSGN. BY R. Field	05/2012		
	CHKD. BY S. Allherr	05/2012		
PLAN NO. U-2008-006				

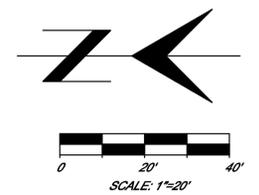
NO.	DATE	REVISION	BY	CHKD.	APPR.





### CITY OF TUCSON PLANT PRESERVATION : MITIGATION & CREDIT CALCULATIONS

BOTANICAL NAME	COMMON NAME	INVENTORIED	VIABLE	P.I.P.	T.O.S.	R.F.S.	% R.F.S.	T.O.S. CREDIT CALCULATIONS		P.I.P. CREDIT CALCULATIONS			MITIGATION CALCULATIONS			NET MITIGATION REQUIRED
								MINIMUM T.O.S.	EXCESS T.O.S.	6"-14" (X2)	>14" (X4)	TOTAL	T.O.S.	R.F.S.	TOTAL	
PROSOPIS VELUTINA	VELVET MESQUITE	12	12	12	0	0	0%	0	0	16	16	32	0	0	0	0



Id #	Species	Latin	Trunk Caliper (in)	Ht (ft)	Trunks/arms	Comments (health, age, form)	Viability (L,M,H)	Comments (context, topo)	Transplant (L,M,H)	Disposition (PIP,RFS,TOS)
1	Velvet Mesquite	<i>Prosopis velutina</i>	12	25	1	good	H	Edge of Drainage,sz,lc	L	PIP
2	Velvet Mesquite	<i>Prosopis velutina</i>	6	10	1	good	H	Edge of Drainage,sz,lc	H	PIP
3	Velvet Mesquite	<i>Prosopis velutina</i>	16	18	3	good	H	mt,wb,lc	M	PIP
4	Velvet Mesquite	<i>Prosopis velutina</i>	12	10	4	good	H	ptt,mt	L	PIP
5	Velvet Mesquite	<i>Prosopis velutina</i>	24	25	3	good	H	mt,lc,ptt,pr	L	PIP
6	Velvet Mesquite	<i>Prosopis velutina</i>	6	12	4	good	H	mt	M	PIP
7	Velvet Mesquite	<i>Prosopis velutina</i>	10	12	3	good	H	mt,lb,wb,lc	M	PIP
8	Velvet Mesquite	<i>Prosopis velutina</i>	6	8	8	good	H	mt,lb	M	PIP
9	Velvet Mesquite	<i>Prosopis velutina</i>	24	25	1	good	H	sz,lc,ptt	L	PIP
10	Velvet Mesquite	<i>Prosopis velutina</i>	12	20	3	good	H	mt,lb,lc,ptt	M	PIP
11	Velvet Mesquite	<i>Prosopis velutina</i>	18	25	2	good	H	mt,lc,ptt	M	PIP
12	Velvet Mesquite	<i>Prosopis velutina</i>	6	8	4	good	H	mt,lb,ptt	M	PIP

Comment Key:  
 lc=Large Canopy    mt=Multi Trunk  
 wb=Wide Base    lb=Low Branched  
 ptt=Proximity to Tracks    sz=Large Size  
 pr=Pruning

PIP-Preserve in Place  
 RFS- Remove from Site  
 TOS- Transplant on Site

K:\TUC - Roadway\098114096 - ED\ASW - Comments\ACAD\14096-NPP.dwg - Jul 19, 2012 - Andrea Varrone  
 XREFS: x:\304026\Loc Map x1340261B01 x1340261B02 x1340261B03 x1340261B04 x1340261B05 x1340261B06 x1340261B07 x1340261B08 x1340261B09 x1340261B10 x1340261B11 x1340261B12 x1340261B13 x1340261B14 x1340261B15 x1340261B16 x1340261B17 x1340261B18 x1340261B19 x1340261B20 x1340261B21 x1340261B22 x1340261B23 x1340261B24 x1340261B25 x1340261B26 x1340261B27 x1340261B28 x1340261B29 x1340261B30 x1340261B31 x1340261B32 x1340261B33 x1340261B34 x1340261B35 x1340261B36 x1340261B37 x1340261B38 x1340261B39 x1340261B40 x1340261B41 x1340261B42 x1340261B43 x1340261B44 x1340261B45 x1340261B46 x1340261B47 x1340261B48 x1340261B49 x1340261B50 x1340261B51 x1340261B52 x1340261B53 x1340261B54 x1340261B55 x1340261B56 x1340261B57 x1340261B58 x1340261B59 x1340261B60 x1340261B61 x1340261B62 x1340261B63 x1340261B64 x1340261B65 x1340261B66 x1340261B67 x1340261B68 x1340261B69 x1340261B70 x1340261B71 x1340261B72 x1340261B73 x1340261B74 x1340261B75 x1340261B76 x1340261B77 x1340261B78 x1340261B79 x1340261B80 x1340261B81 x1340261B82 x1340261B83 x1340261B84 x1340261B85 x1340261B86 x1340261B87 x1340261B88 x1340261B89 x1340261B90 x1340261B91 x1340261B92 x1340261B93 x1340261B94 x1340261B95 x1340261B96 x1340261B97 x1340261B98 x1340261B99 x1340261B00

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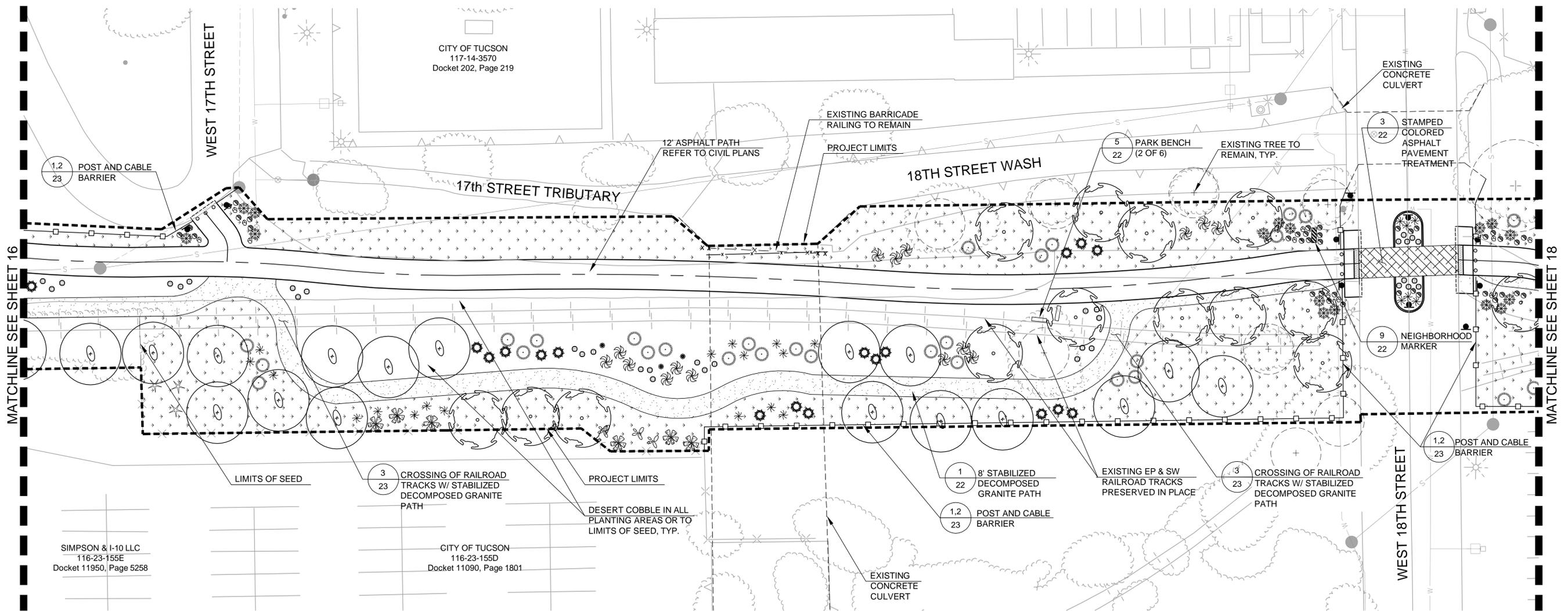
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PRELIMINARY  
**60% REVIEW**  
 NOT FOR CONSTRUCTION OR RECORDING

		DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION <b>EL PASO &amp; SOUTHWESTERN GREENWAY</b> <b>SIMPSON STREET TO 22ND STREET</b>		<b>15</b> OF <b>29</b>
		DRWN. BY A. Venne    05/2012 DSGN. BY R. Field    05/2012 CHKD. BY S. Allherr    05/2012	REF. _____ SCALE: 1" = 20' H PLAN NO. <b>U-2008-006</b>	

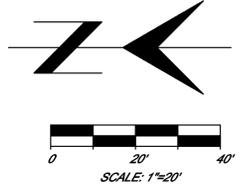
NO.	DATE	REVISION	BY	CHKD.	APPR.





**PLANT LEGEND**

SYMBOL	Botanical Name Common Name	Size	Quantity	GPH	SYMBOL	Botanical Name Common Name	Size	Quantity	GPH	SYMBOL	Botanical Name Common Name	Size	Quantity	GPH
	Parkinsonia x 'Desert Museum' 24" Box		21	6		Buddleia murrubifolia	5 Gal	89	1		Agave geminiflora	5 Gal	47	.5
	Desert Museum Palo Verde	15 Gal	45			Calliandra eriophylla	5 Gal	81	1		Twin-flowered agave	6'-8' Height	34	-
	Parkinsonia microphylla 24" Box		7	4		Fairy Duster					Carnegia gigantea	6'-8' Height	34	-
	Foothills Palo Verde 15 Gal		33			Dalea frutescens 'Sierra negra'	5 Gal	63	1		Calylophus hartwegii	1 Gal	82	1
	Prosopis velutina 24" Box		15	6		Black dalea					Calylophus	5 Gal	45	1
	Velvet Mesquite 15 Gal		48			Dasyliirion longissima	5 Gal	34	.5		Opuntia ficus indica	5 Gal	45	1
	Existing Tree near or w/in Disturbance Limits (Preserve In Place)		-			Toothless sotol					Nopal			
						Dodonaea viscosa	5 Gal	59	2		Decorative Boulder	2' x 2'	21	
						Hop bush					Revegetation Seed Mix			
						Fouquieria splendens	6'-8' Height	21	.5					
						Ocotillo								
						Penstemon parryi	1 Gal	103	1					
						Parry's Penstemon	1 Gal	103	1					
						Salvia greggii	1 Gal	9	2					
						Autumn sage								



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

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 Tucson, Arizona 85705 (520) 615-9191

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

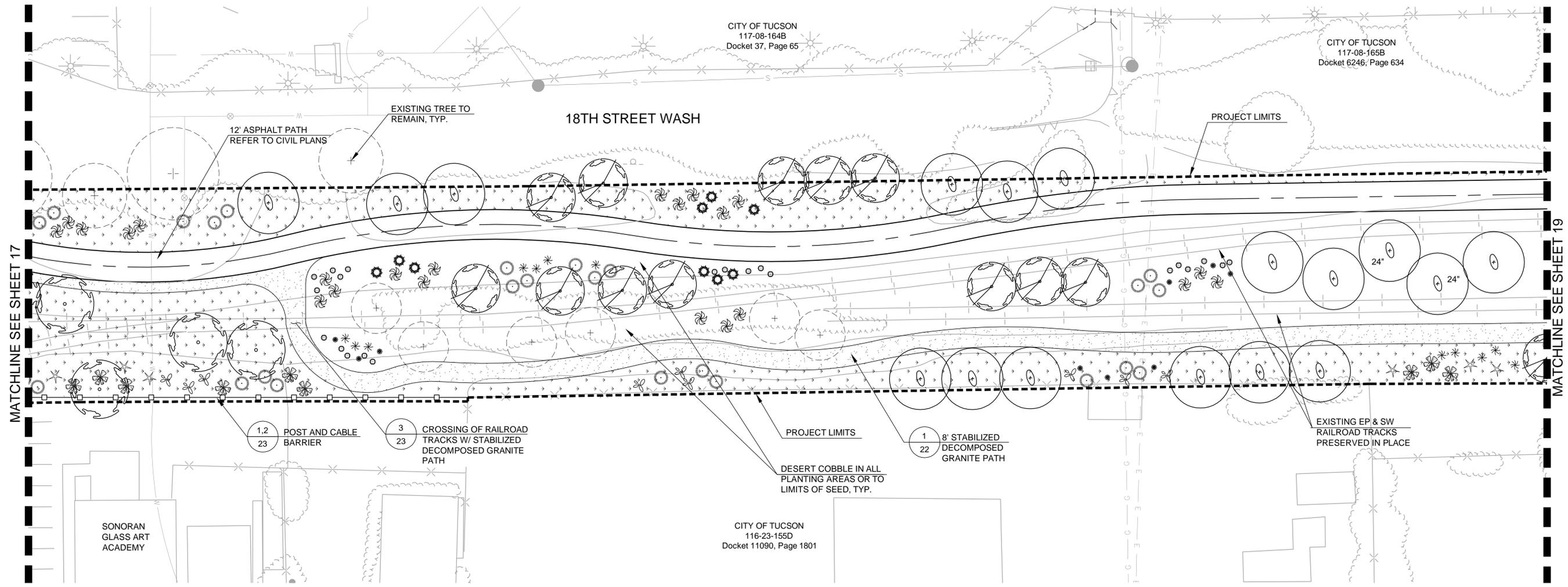
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION  
**EL PASO & SOUTHWESTERN GREENWAY**  
 SIMPSON STREET TO 22ND STREET

DRWN. BY A. Venne 05/2012  
 DSGN. BY R. Field 05/2012  
 CHKD. BY S. Allherr 05/2012

SCALE: 1" = 20' H  
 PLAN NO. U-2008-006

17 OF 29

NO.	DATE	REVISION	BY	CHKD.	APPR.

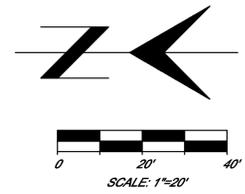


MATCHLINE SEE SHEET 17

MATCHLINE SEE SHEET 19

**PLANT LEGEND**

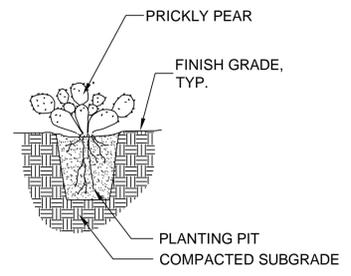
SYMBOL	Botanical Name Common Name	Size	Quantity	GPH	SYMBOL	Botanical Name Common Name	Size	Quantity	GPH	SYMBOL	Botanical Name Common Name	Size	Quantity	GPH
	Parkinsonia x 'Desert Museum'	24" Box	21	6		Buddleia murrubifolia	5 Gal	89	1		Agave geminiflora	5 Gal	47	.5
	Desert Museum Palo Verde	15 Gal	45			Woolly Butterfly Bush	5 Gal	81	1		Twin-flowered agave	6'-8' Height	34	-
	Parkinsonia microphylla	24" Box	7	4		Calliandra eriophylla	5 Gal	81	1		Carnegiea gigantea	6'-8' Height	34	-
	Foothills Palo Verde	15 Gal	33			Fairy Duster	5 Gal	63	1		Saguaro	6'-8' Height	34	-
	Prosopis velutina	24" Box	15	6		Dalea frutescens 'Sierra negra'	5 Gal	63	1		Calylophus hartwegii	1 Gal	82	1
	Velvet Mesquite	15 Gal	48			Dasyliirion longissima	5 Gal	34	.5		Calylophus	5 Gal	45	1
	Existing Tree near or w/in Disturbance Limits (Preserve In Place)	-	-	-		Toothless sotol	5 Gal	59	2		Opuntia ficus indica	5 Gal	45	1
						Dodonaea viscosa	5 Gal	59	2		Nopal	5 Gal	45	1
						Hop bush	5 Gal	59	2		Decorative Boulder	2' x 2'	21	
						Fouquieria splendens	6'-8' Height	21	.5		Revegetation Seed Mix	2' x 2'	21	
						Ocotillo	6'-8' Height	21	.5					
						Penstemon parryi	1 Gal	103	1					
						Parry's Penstemon	1 Gal	9	2					
						Salvia greggii	1 Gal	9	2					
						Autumn sage	1 Gal	9	2					



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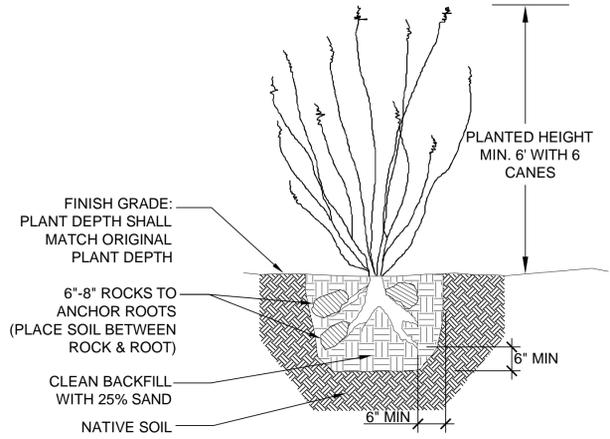






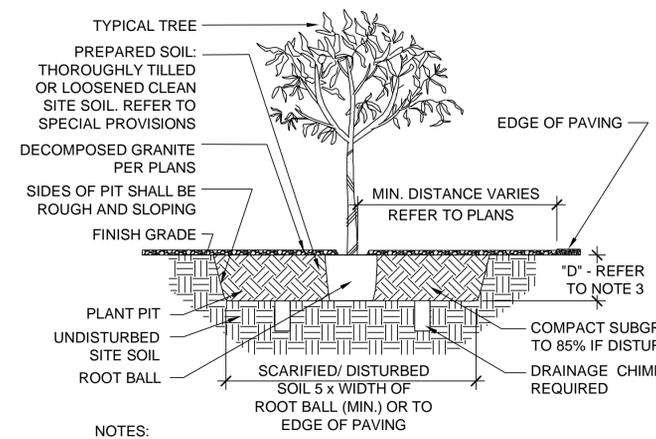
- NOTES:
1. PLANT PIT TO BE 6" DEEPER THAN FREE EXTENSION OF ROOTS.
  2. ROOT PRUNE ALL SHREDDED OR DAMAGED ROOTS.
  3. CACTI: USE DRY SITE SOIL ONLY IN PIT - NO MULCH.
  4. AT JOB SITE, DUST ENTIRE ROOT STRUCTURE WITH WETTABLE DUSTING SULPHUR (1.5# MIN.) AS PER INDUSTRY STANDARD.
  5. PLANT ROOTS SHALL NOT BE ALLOWED TO DESICATE BEFORE PLANTING.
  6. PLANTING DEPTH TO BE THAT AT WHICH PLANT WAS GROWN.

1 TYPICAL DESERT PLANTING NTS



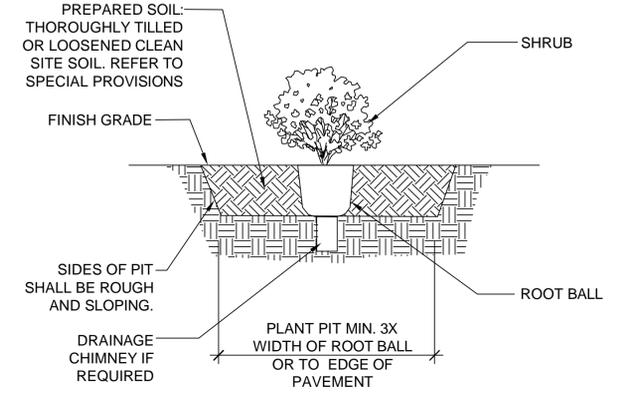
- NOTES:
1. ROOT PRUNE ALL SHREDDED OR DAMAGED ROOTS.
  2. ENSURE THAT ALL WOUNDS TO THE ROOT SYSTEM ARE CLEAN CUT BEFORE PLANTING. APPLY DUSTING SULFUR TO ALL ROOTS.
  3. SPRAY CANES IMMEDIATELY AFTER PLANTING.

2 OCOTILLO PLANTING NTS

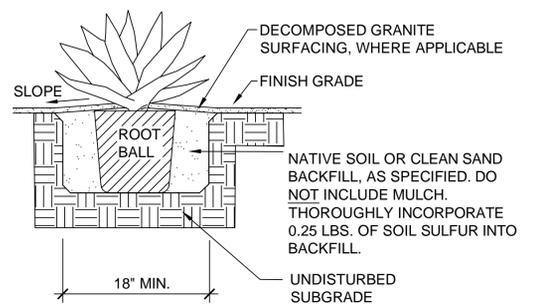


- NOTES:
1. NO PLANTS SHALL BE PRUNED EXCEPT AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE.
  2. STAKE TREE ONLY IF NEEDED, PER DIRECTION OF OWNER'S REPRESENTATIVE. REFER TO TREE STAKING DETAIL.
  3. DEPTH ("D") OF PLANT PIT TO BE EQUAL TO DEPTH OF ROOT BALL.
  4. MULCH TO NOT TOUCH TRUNK OF TREE.

3 TREE PLANTING DETAIL NTS

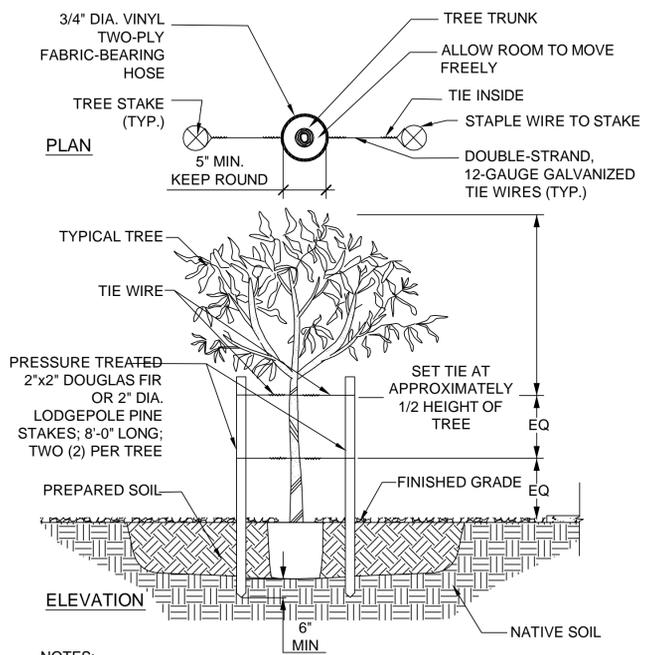


4 SHRUB PLANTING 5-GAL./1-GAL. PLANTS NTS



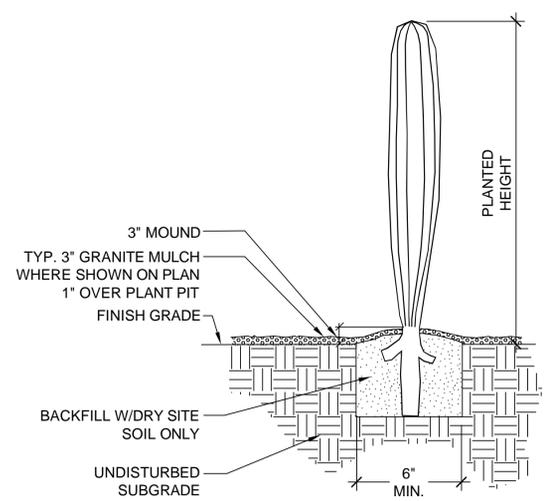
- NOTES:
1. DO NOT CREATE A BASIN AT BASE OF PLANT. SLOPE BACKFILL AWAY FROM STEM.
  2. SET STEM SUCCULENT SO THAT TOP OF ROOT BALL MATCHES ADJACENT GRADE.
  3. THIS DETAIL APPLIES TO NURSERY GROWN STOCK OF THE GENERA AGAVE AND DASYLIRON.

5 SUCCULENT PLANTING NTS



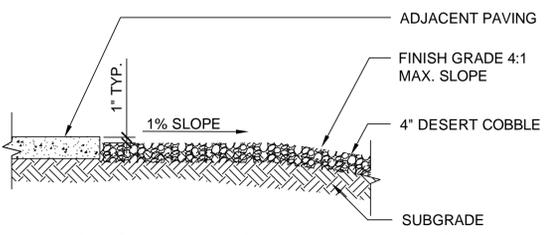
- NOTES:
1. NO PLANTS SHALL BE PRUNED EXCEPT AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE.
  2. STAKE ALL 24" BOX TREES.
  3. SET STAKES PARALLEL TO SIDEWALK AND PAVEMENT.

7 TREE STAKING NTS

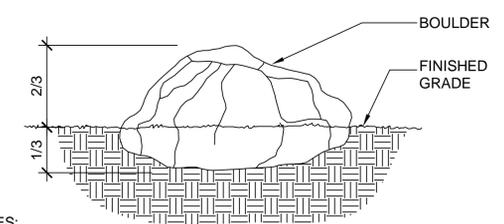


- NOTES:
1. ROOT PRUNE ALL SHREDDED OR DAMAGED ROOTS.
  2. ENSURE ALL WOUNDS TO ROOT SYSTEM ARE CLEAN CUT BEFORE PLANTING. APPLY DUSTING SULFUR TO ALL AREAS BELOW GRADE.
  3. PLANT PIT TO BE 6" MIN. WIDER THAN EXTENT OF SEVERED LATERAL ROOTS.
  4. CUT THROUGH TAP ROOT TO PROVIDE FLAT BASE W/DIA. SUFFICIENT TO SUPPORT WEIGHT OF PLANT W/O SINKAGE.
  5. BACKFILL PIT W/6" LAYERS OF RODDED, COMPACTED, DRY SITE SOIL.
  6. PLANTING DEPTH TO BE AT DEPTH PLANT WAS ORIGINALLY GROWN OR SLIGHTLY DEEPER, BUT TAPERING OF THE ROOT COLLAR MUST BE VISIBLE.
  7. ENSURE SURFACE WATER CAN NOT STAND AGAINST THE ROOT COLLAR.
  8. ALL SAGUARO PLACEMENTS MUST MATCH ORIGINAL ORIENTATION W/ ORIGINAL NORTH SIDE FACING NORTH. NORTH SIDE OF PLANTS TO BE MARKED BY THE NURSERY.
  9. SAGUARO ARE SPECIFIED BY HEIGHT. A VARIETY OF HEIGHTS MAY BE ACCEPTABLE PROVIDED THE AVERAGE IS NOT LESS THAN THAT SPECIFIED.
  10. DO NOT WATER FOR THREE WEEKS FOLLOWING PLANTING.

8 SAGUARO PLANTING NTS



6 FINISH GRADE AT CURB AND PAVING WITH DESERT COBBLE NTS



- NOTES:
1. BOULDER TO BE SET WITH MINIMUM 1/3 MASS BELOW FINISHED GRADE.
  2. SUBGRADE TO BE COMPACTED TO 90% OR AS OTHERWISE INDICATED ON PLANS.
  3. ALL BOULDERS TO BE FROM SURFACE LOCATIONS, WEATHERED AND UNBROKEN. COLOR SHALL BE DESERT GOLD, OR APPROVED EQUAL.

9 DECORATIVE BOULDER NTS

PLANTING DETAILS

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 333 East Wetmore Road, Suite 280  
 Tucson, Arizona 85705 (520) 615-9191

PRELIMINARY 60% REVIEW NOT FOR CONSTRUCTION OR RECORDING	DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		21 OF 29
	EL PASO & SOUTHWESTERN GREENWAY SIMPSON STREET TO 22ND STREET		
	CITY OF TUCSON	SCALE: NTS	
DRWN. BY A. Venne	05/2012	REF. _____	SCALE: NTS
DSGN. BY R. Field	05/2012	_____	_____
CHKD. BY S. Allherr	03/2012	PLAN NO. U-2008-006	_____

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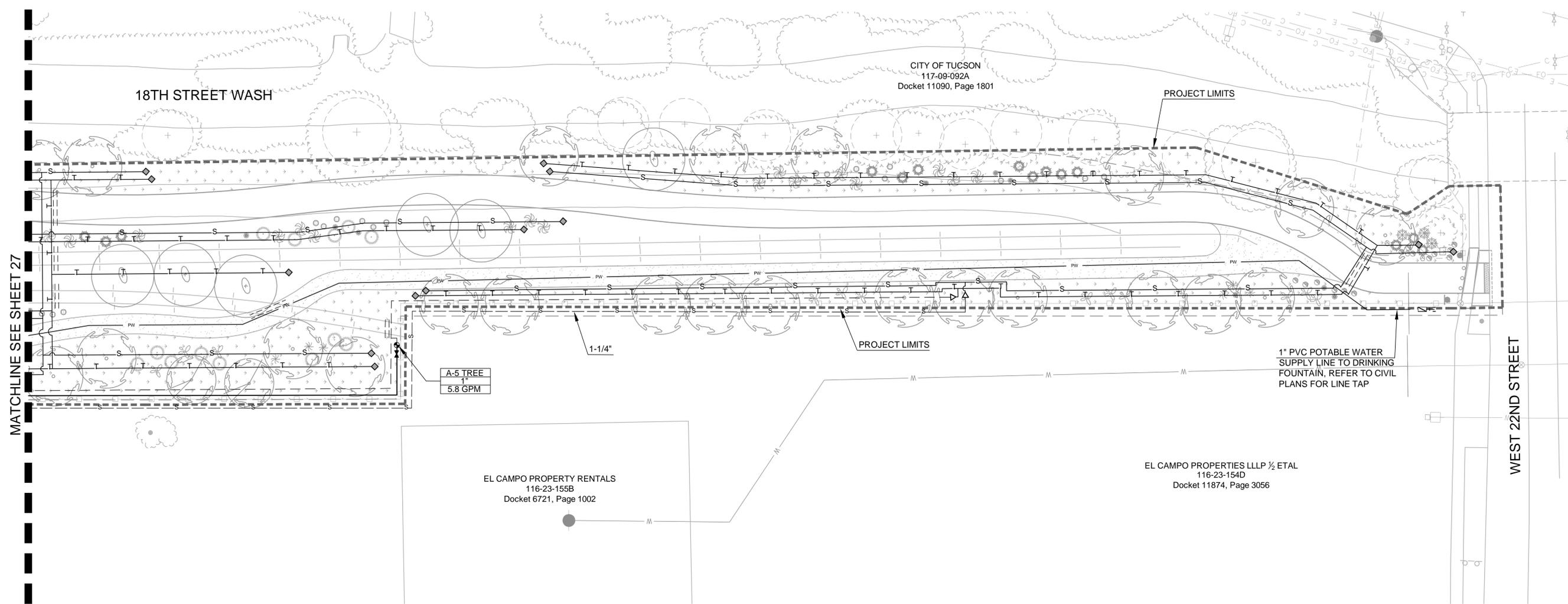






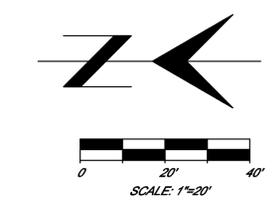
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	TEA-TUC-0(214)A		6	

TRACS NO: 0000 PM TUC SL624 01C



**IRRIGATION LEGEND**

SYMBOL	EQUIPMENT	SIZE	SYMBOL	EQUIPMENT	SIZE
	WATER METER-RECLAIMED	EXISTING		SHRUB SUB-MAIN LINE PVC SCH 40	1" UNLESS OTHERWISE NOTED
	CONTROLLER PEDESTAL MOUNT	EXISTING		TREE LATERAL LINE PVC SCH 40	3/4"
	GATE VALVE	1-1/2"		SHRUB LATERAL LINE PVC SCH 40	3/4"
	FLOW SENSOR W/ FLOW SENSOR CABLE	EXISTING		SLEEVE PVC SCH 40	4", UNLESS OTHERWISE NOTED
	PRESSURE REGULATOR	AS REQ'D (1" OR 3/4")	NOT SHOWN	STATION DECODER AT EACH REMOTE CONTROL VALVE	
	PRESSURE REDUCING MASTER VALVE	EXISTING	NOT SHOWN	TWO-WIRE 14(AWG) GAUGE CABLE	
	REMOTE CONTROL VALVE ASSEMBLY	1"	NOT SHOWN	LIGHTNING ARRESTER	
	FILTER	1"	NOT SHOWN	TWO-WIRE CONNECTORS	
	QUICK COUPLER	1"	NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)	
	MAIN LINE PVC SCH 40	1-1/2" UNLESS OTHERWISE SHOWN		END CAP AUTOMATIC FLUSHING, COMPRESSION END PLUG	
	TREE SUB-MAIN LINE PVC SCH 40	1"		VALVE NUMBER/ TYPE VALVE SIZE GALLONS PER MINUTE	
	POTABLE WATER LINE PVC SCH 40	1"		C-3 SHRUB xx GPM	



**IRRIGATION PLAN**

28  
OF  
29

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION <b>EL PASO &amp; SOUTHWESTERN GREENWAY</b> SIMPSON STREET TO 22ND STREET	
	DRWN. BY A. Venne DSGN. BY R. Field CHKD. BY S. Altherr
PRELIMINARY <b>60% REVIEW</b> NOT FOR CONSTRUCTION OR RECORDING	REF. _____ SCALE: 1" = 20' H 05/2012 05/2012 05/2012 PLAN NO. <b>U-2008-006</b>

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

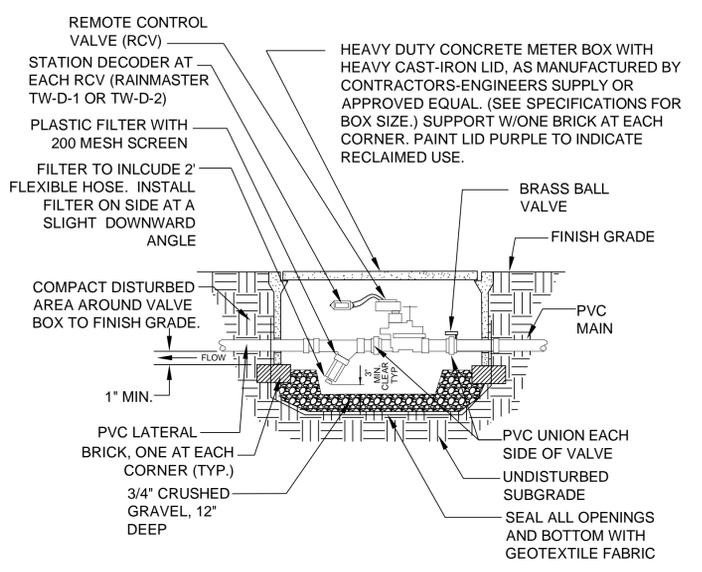
**ARIZONA 811**  
 ARIZONA BLUE STAKE, INC.  
 Dial 8-1-1 or 1-800-STAKE-IT (782-5348)  
 In Maricopa County: (602) 263-1100

NO.	DATE	REVISION	BY	CHKD.	APPR.

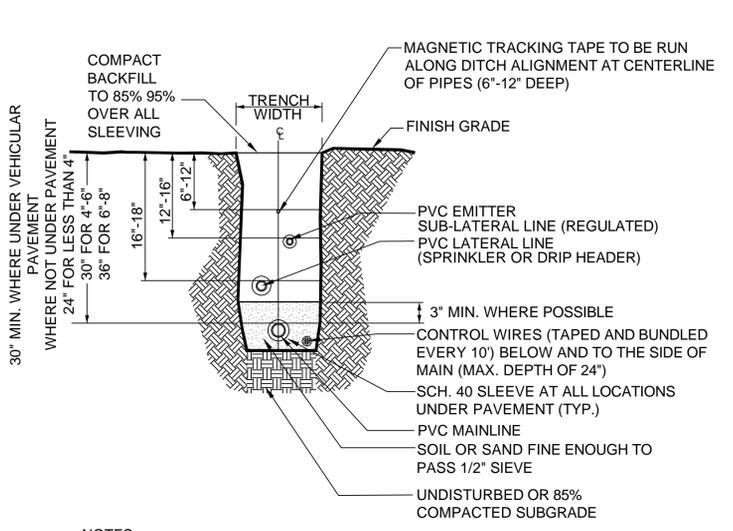
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	TEA-TUC-0(214)A		6	

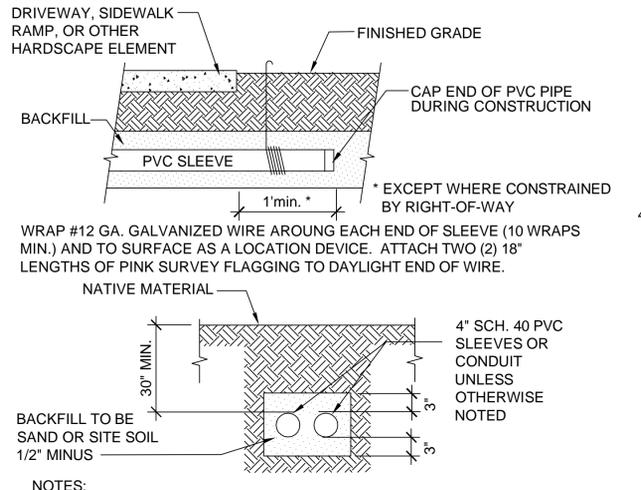
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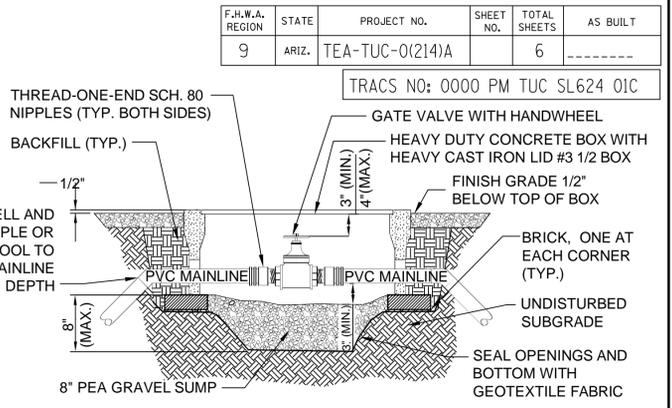
1 REMOTE CONTROL VALVE AND FILTER ASSEMBLY NTS



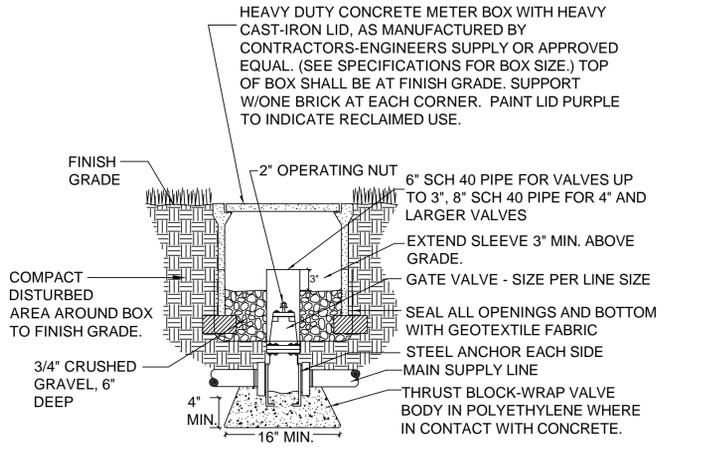
2 IRRIGATION TRENCHING NTS



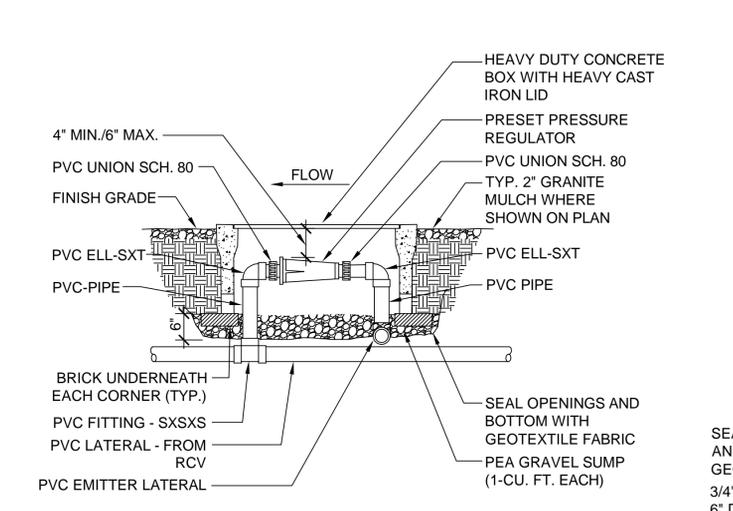
3 IRRIGATION PIPE SLEEVES NTS



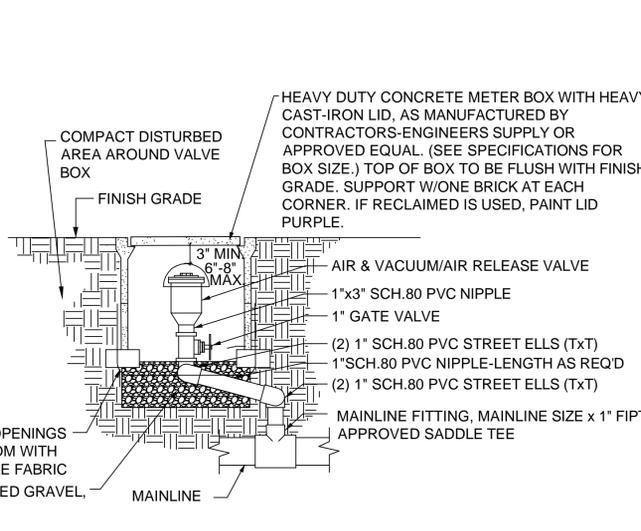
4 GATE VALVE (MAINLINE 2" AND SMALLER) NTS



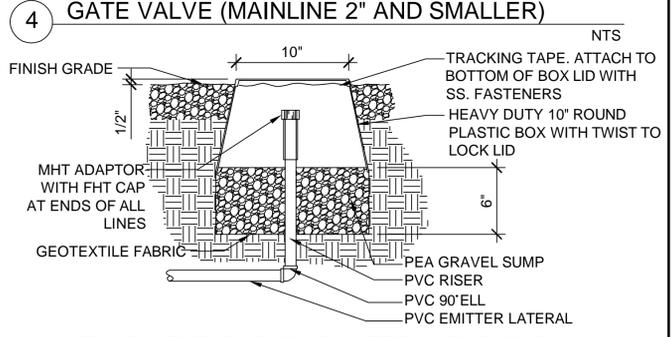
6 GATE VALVE (MAINLINE 2-1/2" AND LARGER) NTS



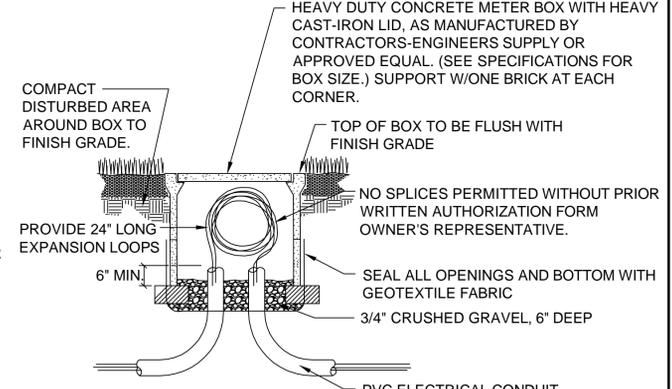
7 PRESSURE REGULATOR RISER NTS



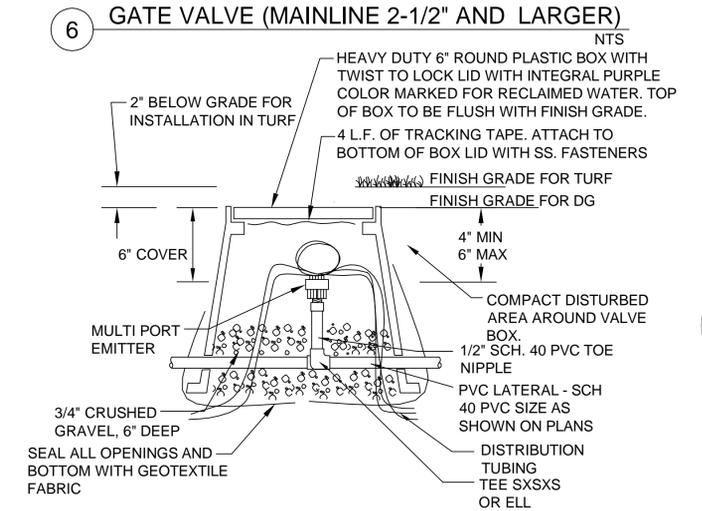
8 AIR VACUUM RELEASE VALVE NTS



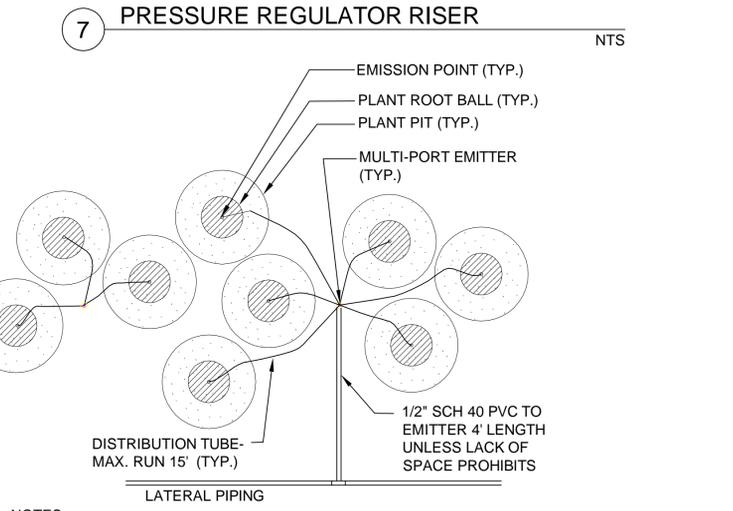
5 FLUSH END CAP (PVC LATERAL END CAP) NTS



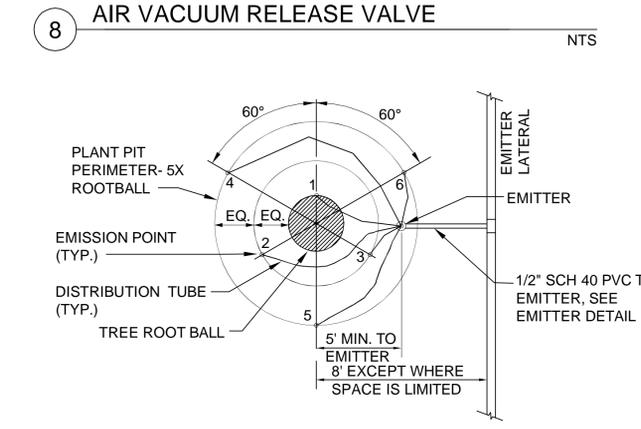
9 PULL BOX DETAIL (TWO WIRE CABLE) NTS



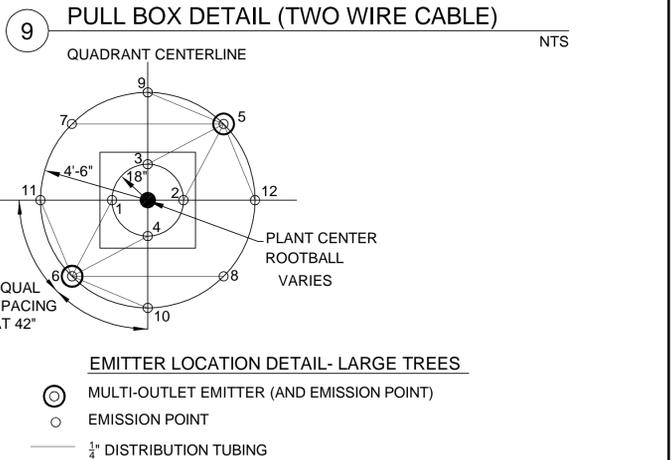
10 MULT-OUTLET EMITTER ASSEMBLY NTS



11 EMITTER LOCATION DETAIL-SHRUBS NTS



12 EMITTER LOCATION DETAIL-TREES NTS



EMITTER LOCATION DETAIL-LARGE TREES NTS

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CITY OF TUCSON

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SCALE: NTS  
 PLAN NO. U-2008-006

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