



Development Review (Minor) Staff Approval

Shea Blvd Tunnel Access Shared
Use Path/Trail - Shea Blvd to
CAP Canal

APPLICATION INFORMATION	
LOCATION:	Between Shea Blvd and CAP Canal, along 125 th St.
APPLICANT:	Thyra Ryden-Diaz
PARCEL:	N/A
COMPANY:	City of Scottsdale
Q.S.:	28-57
ADDRESS:	7447 E Indian School Road Scottsdale, AZ 85251
PHONE:	480-312-4327
Request: Trail connection from the northeast corner of Shea & 124th Street to the CAP canal along the 125th Street alignment, including improvements to an existing Shea Blvd underpass.	

STIPULATIONS

1. Except as stipulated below, plans submitted for Construction Drawing review shall conform to the Shared Use Trail Plan and Profile submitted by URS dated 6/15, and approved by Current Planning Staff on 5/12/2016.
2. Retaining Wall location and design shall conform to the Retaining Wall General Notes Plan, Wall 01 Plan, Wall 02 Plan and Wall 03 plan, and Wall 05 plan submitted by URS dated 6/15, and approved by Current Planning Staff on 5/12/2016.
3. Landscaping and Hardscaping plan shall conform to the plans submitted by J2 Engineering and Environmental Design, with a date of 1/16, and approved by Current Planning Staff on 5/12/2016.
4. Do not destroy any native shrubs and trees. Adjust the path/trail alignment to avoid any disturbance. If a native tree is to be impacted, a native plant permit is required to be obtained.
5. New path shall tie into existing shared-use trail at the northeast corner of 124th Street and Shea Blvd.
6. Eliminate the right angle in the trail alignment at 125th Street and Cochise Drive, provide a curved transition.
7. Avoid railing where possible, especially in NAOS areas where no pedestrian will be.
8. Submit plans are required by the One Stop Shop.

CONSTRUCTION DOCUMENT PLAN REVIEW SUBMITTAL REQUIREMENTS

Submit one copy of this approval letter, and a completed Owner/Builder form if applicable, and a permit application along with the following plan set(s) to the One-Stop-Shop for review:

PERMIT APPLICATION: **Completed Permit Application.** The permit application may be obtained or completed online at the following weblink:

http://www.scottsdaleaz.gov/Assets/Public+Website/bldgresources/APP_Permit_Commercial.pdf

(Please complete the permit application online prior to arriving at the City to submit your construction documents)

IMPROVEMENTS: 4 sets of civil improvement plans

4 sets of landscape improvement plans

OTHER: Native Plant Permit Application and associated material

Planning and Development Services

7447 East Indian School Road, Suite 105, Scottsdale, Arizona 85251 Phone: 480-312-7000 Fax: 480-312-7088

City of Scottsdale's Website: www.scottsdaleaz.gov

Expiration of Development Review (Minor) Approval

This approval expires two (2) years from date of approval if a permit has not been issued, or if no permit is required, work for which approval has been granted has not been completed.

Staff Signature: *K. Niederer*
Keith Niederer

DATE: 5-12-2016

Planning and Development Services

7447 East Indian School Road, Suite 105, Scottsdale, Arizona 85251 Phone: 480-312-7000 Fax: 480-312-7088

City of Scottsdale's Website: www.scottsdaleaz.gov

SHEA TUNNEL ACCESS SHARED USE PATHWAY

PROJECT NARATIVE

The proposed federally funded Shea Tunnel Access Shared Use Pathway project is located in the City of Scottsdale near 124th Street and Shea Boulevard. The project limits extend from the northeast corner of 124th Street and Central Arizona Project (CAP) canal to the northeast corner of 124th Street and Shea Boulevard. The project will provide non-motorized access to the existing Shea Boulevard concrete box culvert (Shea tunnel) beneath Shea Boulevard, which is approximately 300 feet east of 124th Street.

The proposed work consists of constructing a shared use path and trail, approximately 3,800 feet long, varying in width from 6 feet to 18 feet, a culvert crossing at the wash south of Shea Boulevard, gabion retaining walls along the north side of Shea Boulevard, additional lighting in the existing Shea tunnel, landscaping and trail signage.



Development Review (Minor) (Administrative Staff Approval) Development Application Checklist

Official Use:	
City Staff Contact: <u>Keith Niederer</u>	Staff Signature: <u>[Signature]</u>
Phone: <u>480-312-2953</u>	Email: <u>k.niederer@scottsdaleaz.gov</u>
Project Name: <u>Shea Blvd., 125th Street & Cochise Drive Multi-use path & trail</u>	
Property's Address: _____ A.P.N.: _____	
Property's Zoning District Designation: <u>R1-7 ESL, R1-18 PRD ESL & R1-43 ESL</u>	
Application Request: <u>Construct a new path and trail from CAP canal to the NEC of 124th St.</u>	
Owner: <u>Various</u>	Applicant: <u>Thyma Ryden-Diaz & Shea Blvd.</u>
Company: _____	Company: <u>City of Scottsdale</u>
Address: _____	Address: <u>7447 E. Indian School Rd. Ste. 205</u>
Phone: _____ Fax: _____	Phone: <u>480-312-4327</u> Fax: _____
E-mail: _____	E-mail: <u>trayden-diaz@scottsdaleaz.gov</u>

Submittal Requirements: Please submit materials requested below. All plans must be folded.

<input checked="" type="checkbox"/> Completed Application (this form) and Application Fee - (CIP #) \$ <u>87.00</u> (fee subject to change every July) <input type="checkbox"/> Affidavit of Authority to Act for Property Owner, letter of authorization, or signature below <input type="checkbox"/> Signed Owner Certification Acknowledging Receipt of Notice of Right to Appeal Exactions and Dedications <input type="checkbox"/> Request for Site Visits and/or Inspections form <input checked="" type="checkbox"/> Narrative - describing nature of request <input type="checkbox"/> Homeowners or Property Owners Association Approval <input checked="" type="checkbox"/> Color photographs of site - include area of request <input checked="" type="checkbox"/> Site plan (<u>1</u>) copy(ies) indicate the extent and location of additions, buildings and other structures, dimensions of existing and proposed structures, sidewalks, and/or driveways as well as any required setbacks. <input type="checkbox"/> Material Samples - color chips, awning fabric, glazing, etc. <input checked="" type="checkbox"/> Elevation Drawings or Color Photo <u>simulations for walls</u> (<u>1</u>) copy(ies) - of additions, buildings, or other changes with materials and colors noted and keyed	<input checked="" type="checkbox"/> Landscape Plan (<u>1</u>) copy(ies) - indicate location of existing and new plants, location and dimension of paving, a plant palette with names, symbols, sizes, spacing & quantities, and open space/landscaping calculations. <input checked="" type="checkbox"/> Cross Sections - for all cuts and fills applications <input checked="" type="checkbox"/> Conceptual Grading & Drainage Plan - show existing, proposed drainage flows, channels, retention, etc. <input type="checkbox"/> Copy of Liquor License Application (for all bars or restaurants patio applications) <input type="checkbox"/> Airport Vicinity Development Checklist <input type="checkbox"/> Floor Plan(s) - show additions, alterations, or new structures. The floor plan shall be dimensioned and clearly delineate existing and proposed construction. <input checked="" type="checkbox"/> Exterior Lighting - provide cut sheets, details and photometrics for any proposed lighting. <input checked="" type="checkbox"/> Other: <u>Drainage report</u>
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Please indicate in the checkbox below the requested review methodology (please see the descriptions on page 2):

<input checked="" type="checkbox"/> Enhanced Application Review:	I hereby authorize the City of Scottsdale to review this application utilizing the Enhanced Application Review methodology.
<input type="checkbox"/> Standard Application Review:	I hereby authorize the City of Scottsdale to review this application utilizing the Standard Application Review methodology.

Owner Signature	Agent/Applicant Signature
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Niederer, Keith

From: Muiser, Maria
Sent: Monday, May 16, 2016 7:36 AM
To: Niederer, Keith
Cc: Gilkison, Traci
Subject: RE: Shea Tunnel Access Shared Use Pathway/Trail, Shea Blvd. to CAP Canal

Keith,

All needed land rights for the trail have been acquired for the Shea-Tunnel-Path project.

Maria L. Muiser
City of Scottsdale
Asset Management Coordinator
Capital Projects Management OCC201
7447 E. Indian School Rd., Ste 205
Scottsdale, AZ 85251
W 480-312-7853 F 480-312-9153

From: Niederer, Keith
Sent: Thursday, May 12, 2016 6:17 PM
To: Muiser, Maria
Subject: Shea Tunnel Access Shared Use Pathway/Trail, Shea Blvd. to CAP Canal

Maria – For the zoning approval file, could you please send me an e-mail stating that all necessary easements have been obtained from the various property owners for this CPM trail/path development?

Thanks,

Keith Niederer
Senior Planner
City of Scottsdale, AZ
480-312-2953
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 twitter



Search Browser

Project - 1260-PA-2014 Shea Blvd Underpass

Save (F11) Close (F12) Void (F9) Transmittal Track Sheet Folder Documents

Pre App #	Year	Phase	Project Name	Entered By
1260	2014		Shea Blvd Underpass	INTERNET
Project Description			Req for PA Mtg	Project Status
Trail connection from north of Shea to the CAP canal along the 124th Street alignment including improvements to an existing Shea Blvd underpass.			12/22/2014	ACTIVE
			File Location	% Complete
			IN CDS PROJECT FOLDER	

Location

Details

Participants

W

Project Types

- Abandonments
- BOA
- Capital Project
- Development Review
- Notice of Compliance
- General Plan
- Hardship Exemption-ESLO
- Historic Preservation
- Master Plan
- Minor Amendment
- Master Sign Plan
- Native Plant
- Preliminary Plat
- Release of Easement
- Special Event
- Staff Approval/DR Minor
- Text Amendment
- Use Permit
- Wash Modification
- Zoning

Project Information

Bldg Sq Ft	Parcel Acreage	Total # of Lots	Submittal Date
		0	12/22/2014

Cost Center Hearing Process Character Area

Paid Items

Tran Code	Description	Amount	Date P
3234	PRE-APPLICATION / INTERNET	\$87.00	12/22/2014
3199	RECORDS PACKET FOR PREAPPS	\$21.00	12/22/2014

Refresh



Search Browser

Project - 1260-PA-2014 Shea Blvd Underpass

Save (F11) Close (F12) Void (F9) Transmittal Track Sheet Folder Documents

Pre App # 1260 Year 2014 Phase Project Name Shea Blvd Underpass Entered By INTERNET

Project Description Trail connection from north of Shea to the CAP canal along the 124th Street alignment including improvements to an existing Shea Blvd underpass. Req for PA Mtg 12/22/2014 Project Status ACTIVE % Complete File Location IN CDS PROJECT FOLDER

Location Details Participants W
Project Coordinator Keith Niederer Phone 480-312-2953

Project Meetings/Hearings Cas

Meeting/Hearing	Date	Comments
PRE APP MEETING	01/07/2015	@ 10:00 am
*		



Neighborhood Notification Report

**Shea Tunnel Access Shared Use Pathway
Shea Boulevard to CAP Canal
Project No. 410-TB02A-56047**

April 23, 2015



As a part of neighborhood notification, the City of Scottsdale requires this Notification Report. This report briefly summarizes efforts made by the applicant to contact neighbors, interested parties and HOAs within 750 feet of the property to be improved. The following is list of the notification effort:

- A copy of the marked Neighborhood Notification Packet (See Appendix A)
- A list of names, phone numbers/addresses of contacted parties (e.g. neighbors/property owners and HOAs. See Appendix B)
- A map showing where notified neighbors are located. (See Appendix C)
- The parties were mailed a letter on March 6, 2015. The parties were contacted once.
- A copy of the letter mailed to neighbors, interested parties, and HOAs. (See Appendix D).
- Originals of all comments, letters, and correspondence (See Appendix E).

URS

APPENDIX A



Neighborhood Notification Checklist

AB, BA, UP, **DR**, HE, HP, MUMSP, PP

Neighborhood notification is necessary for all Conditional Use Permits, including Municipal Use Master Site Permits, Abandonments, Development Review Board, Board of Adjustment, and Hardship Exemption cases. You are required to return this form with checked items completed, and your Neighborhood notification Report with your application submittal.

If you have questions on these requirements, please contact Planning & Development Services at 480-312-2328.

This application is for a:

- | | |
|---|--|
| <input type="checkbox"/> Abandon of ROW/GLO | <input checked="" type="checkbox"/> Development Review Board |
| <input type="checkbox"/> Board of Adjustment | <input type="checkbox"/> Hardship Exemption |
| <input type="checkbox"/> Conditional Use Permit | <input type="checkbox"/> Municipal Use Master Site Plan |
| <input type="checkbox"/> Historic Preservation Commission | |

If you are submitting an application for Re-Zoning, Zoning Ordinance Text Amendments, Zoning Stipulation Amendments, Council Approved Amended Standards, and City Council Site Plan Approval this is not the correct checklist; please obtain a copy of the Citizen Review Checklist from your project coordinator. If you are applying for a General Plan Amendment, please obtain a copy of the Neighborhood Involvement Checklist from your project coordinator.

Complete the following marked items **prior to** submitting your application

Step 1: Neighborhood Notification

<p>Provide information by:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 1st Class Letter or Postcard <input type="checkbox"/> In Person <input type="checkbox"/> Phone call <input type="checkbox"/> Certified Mail <input type="checkbox"/> Door Hangers/Flyers 	<p>To:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Property owners and HOAs within 750' (*required for all WCF) <input type="checkbox"/> Adjacent property owners/ tenants/HOAs <input type="checkbox"/> School District(s) <input type="checkbox"/> Interested Party list (provided by Project Coordinator) <input type="checkbox"/> Tenants, employees, and students (*required for all WCF)
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* WCF requirements for Notification shall be completed a minimum of 15 days prior to the application submittal.

Project Notification shall include the following information:

- Project request and description
- Location
- Size (e.g. Number of Acres of project, Square Footage of Lot)
- Zoning
- Site Plan
- Applicant and City contact names and phone numbers
- Any scheduled open house(s) - including time, date, and location

Step 2: Project Under Consideration

- Post sign 10 calendar days prior to your Open House Meeting. (See Sign posting requirements)
- Post sign 15 calendar days prior to your formal application submittal. (See WFC requirements)

Planning, Neighborhood & Transportation Division

7447 E. Indian School Road, Suite 105, Scottsdale, AZ 85251 • Phone: 480-312-7000 • Fax: 480-312-7088



Neighborhood Notification Checklist

AB, BA, UP, DR, HE, HP, MUMSP, PP

Step 3: Hold An Open House Meeting

You are required to hold a minimum of ___ Open House Meeting(s).

Provide open house date, time, and location to Project Coordinator **at least** 14 calendar days prior to the meeting. E-mail open house information to project coordinator and to: planninginfo@scottsdaleaz.gov.

Step 4: Complete a Neighborhood Notification Report

Provide all of the checked items, in a report, with your submittal

- You are required to submit a Neighborhood Notification Report with your application.
- Submit either the original, or a copy of this marked Neighborhood Notification Packet.
- Document your Project Notification efforts as follows:
 - Provide a list of names, phone numbers/addresses of contacted parties (e.g. neighbors/property owners, School District representatives, and HOA's).
 - Provide a map showing where notified neighbors are located.
 - Provide the dates contacted, and the number of times contacted.
 - Indicate how they were contacted (e.g. letter, phone call). If certified mail was used, provide receipts of delivery.
 - Provide copies of letters or other means used to contact neighbors, the school district, and HOA's.
 - Provide originals of all comments, letters, and correspondence received.
 - Provide affidavit(s) of mailing(s).
- Verify the "Project Under Review" Sign Posting or Newspaper listing as follows:
 - Provide affidavit of posting, and pictures of sign, which are date and time stamped.
 - Copy of Newspaper listings with date of publication.
- Document the Open House Meeting(s) as follows:
 - List dates, times, and locations of open house meeting(s).
 - Provide the sign-in sheets, list of people attended the meeting(s), comment sheets, and written summary of the comments, issues and concerns provided at the open house meeting(s).
 - List the method by which the applicant has addressed, or intends to address, the issues, concerns, and problems identified during the process.
 - List dates, times, and locations of any follow-up with interested parties.
- List any other neighborhood, citizen involvement.

Related Resources:

- Project Under Consideration Sign Posting Requirements
- Affidavit of Posting
- Public Hearing Sign Posting Requirements

Planning, Neighborhood & Transportation Division

7447 E. Indian School Road, Suite 105, Scottsdale, AZ 85251 • Phone: 480-312-7000 • Fax: 480-312-7088

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APPENDIX B

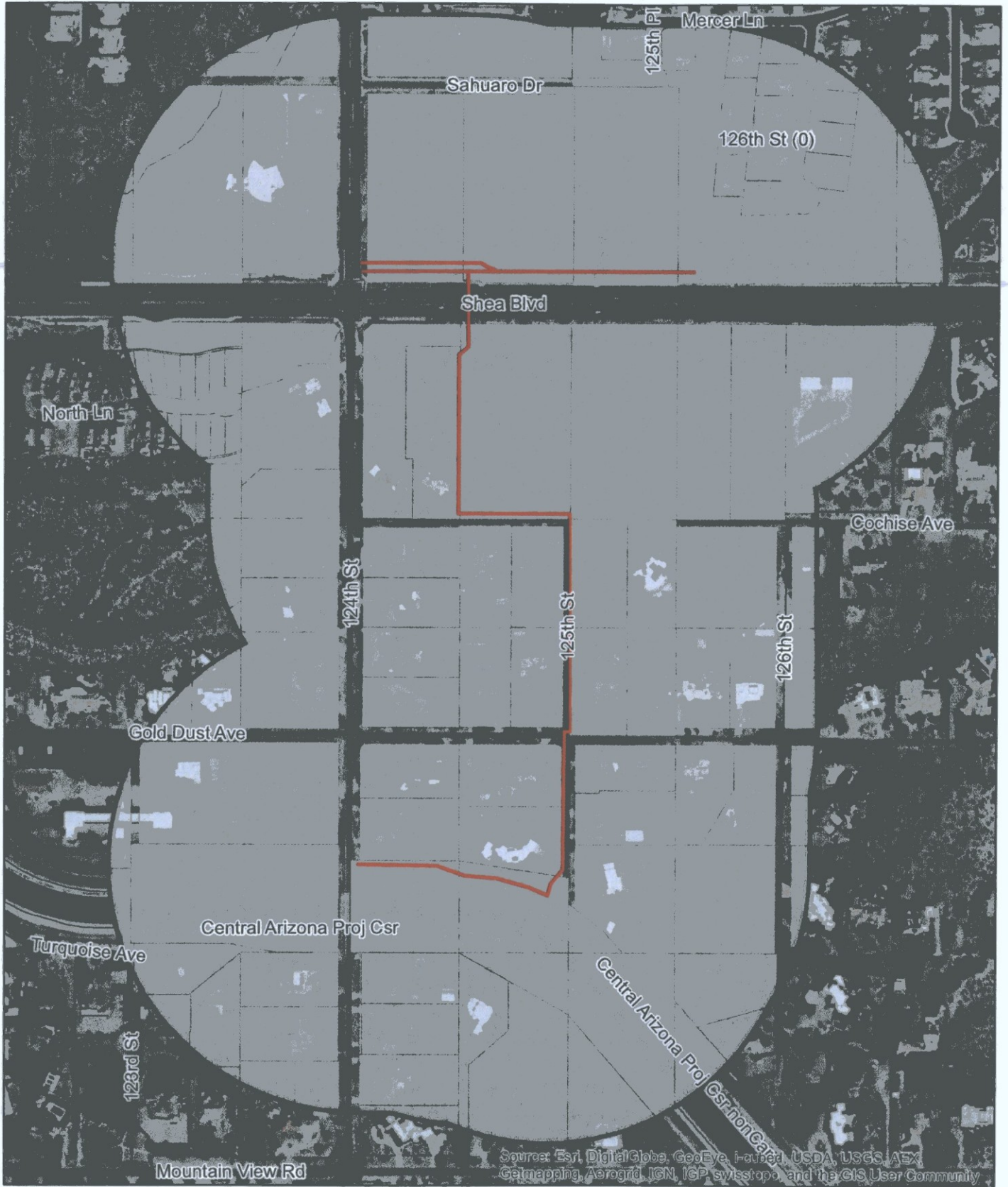
O_NAME	O_ADDR1	O_CITY	O_STATE	O_ZIP
SHEA 124 INVESTMENTS LLC	11811 N TATUM BLVD STE 1051	PHOENIX	AZ	85028
MCDOWELL MOUNTAIN COMMUNITY CHURCH	10700 N 124TH ST	SCOTTSDALE	AZ	85259
MCDOWELL CITRUS 100 LLC	3321 E BASELINE RD	GILBERT	AZ	85234
SCOTTSDALE CITY OF	7447 E INDIAN SCHOOL RD	SCOTTSDALE	AZ	85251
GILBERT E GORDON REVOCABLE TRUST	10862 N 125TH PL	SCOTTSDALE	AZ	85259
SALERNO JOSEPHINE TR	149 ROYAL COURT	BLOOMINGDALE	IL	60108
AMANATULLAH SYED S/BEGUM NASIM A	12543 E MECER LN	SCOTTSDALE	AZ	85259
VERDONE JOSEPHINE TR	12567 E MERCER LN	SCOTTSDALE	AZ	85259
CLEARWATER PATRICIA A	10840 N 126TH ST	SCOTTSDALE	AZ	85259
EDNNEN RICHARD L	10818 N 126TH ST	SCOTTSDALE	AZ	85259
YOUSIF FAMILY REVOCABLE TRUST	10796 N 126TH ST	SCOTTSDALE	AZ	85259
MODELL PAUL M TR/MARJORIE A TR	3441 SHORE DR	EXCELSIOR	MN	55331
RAHIMZADEH ALI/DARIAN AKRAM	10752 N 126TH ST	SCOTTSDALE	AZ	85259
ARIKAT SUHAIL M	10730 N 126TH ST	SCOTTSDALE	AZ	85259
SPICKLER CLIFFORD V/DÉBRA L	10708 N 126TH ST	SCOTTSDALE	AZ	85259
HAVARD WILLIAM/SABRINA I	10741 N 126TH ST	SCOTTSDALE	AZ	85259
ALBRECHT DAVID P/CHRISTINA L	10767 N 126TH ST	SCOTTSDALE	AZ	85259
WILES THOMAS R/DEBBIE S	10793 N 126TH ST	SCOTTSDALE	AZ	85259
DUFFIE PAUL R	10819 N 126TH ST	SCOTTSDALE	AZ	85259
SIERRA FOOTHILLS COMMUNITY ASSOCIATION	PO BOX 14767	SCOTTSDALE	AZ	852674767
WILLIAMS BARBARA A	10740 N 126TH WY	SCOTTSDALE	AZ	85259
LAND HOLDINGS INVESTMENT CO LLC	3321 E BASELINE RD	GILBERT	AZ	85234
ST BERNARD OF CLAIRVAUX ROMAN CATHOLIC PARISH	400 E MONROE	PHOENIX	AZ	85004
PINNACLE RIDGE HOLDINGS LLC	3321 E BASELINE RD	GILBERT	AZ	85234
RYAN MARK C/SANDRA L	9950 N 124TH ST	SCOTTSDALE	AZ	852595204
FIRMINGER BARBARA L/ROMERO RICHARD A	12340 E MOUNTAIN VIEW RD	SCOTTSDALE	AZ	85259
RAJA PRASANTH/GEETHA	9916 N 124TH ST	SCOTTSDALE	AZ	85259
HAMDAN ISMAIL/NAHEEL	3202 W ROOSEVELT	PHOENIX	AZ	85009
VIP PARADISE CARE LLC	12650 E COCHISE DR	SCOTTSDALE	AZ	85259
BERTSCH ROBERT/JAN	8621 BUNTON RD	WILLIS	MI	48191
HUERTA PHILIP J/CARMEN	12417 E CAYUSE CT	SCOTTSDALE	AZ	85259
RIOS GEORGE F/MAYELLA V	9039 N 127TH ST	SCOTTSDALE	AZ	85259
SWEILEM KHALIL	9329 OLCOTT	MORTON GROVE	IL	60053
STUART ROSS BLANCHARD	10238 N 101ST ST	SCOTTSDALE	AZ	85258
ROBERTSON JUDITH L TR	12405 E SHEA BLVD	SCOTTSDALE	AZ	85259

O_NAME	O_ADDR1	O_CITY	O_STATE	O_ZIP
CHAD AND KASSIE LEWIS FAMILY TRUST	12424 E COCHISE DR	SCOTTSDALE	AZ	85259
HAWKS VIEW HOLDING LLC	16541 REDMOND WY NO 194-C	REDMOND	WA	98052
BIDAR SAEED	10420 N 124TH ST	SCOTTSDALE	AZ	85259
USA-BOR	23636 N 7TH ST	PHOENIX	AZ	85024
SIMS THOMAS M/KALENE	12340 E GOLD DUST AVE	SCOTTSDALE	AZ	85259
THOMPSON WILLIAM III/MICHELE	12310 E GOLD DUST AVE	SCOTTSDALE	AZ	85259
LANDMARK PENTECOSTAL CHURCH OF SCOTTSDALE	12055 E SHEA BLVD	SCOTTSDALE	AZ	85259
RAFI MICHAEL/ TARA TR	10201 N 124TH ST	SCOTTSDALE	AZ	85259
VAUGHAN JAMES R/LINDA	10255 N 124TH ST	SCOTTSDALE	AZ	85259
CROCKER WILLIAM C/ CHARISSE F	10371 N 124TH ST	SCOTTSDALE	AZ	85259
SMITH JAMES K/TINA A	10301 N 124TH ST	SCOTTSDALE	AZ	85259
WILKINSON DAVID/KIMBERLY	12496 E GOLD DUST AVE	SCOTTSDALE	AZ	85259
GRAULICH GREG/DEBI	12468 E GOLD DUST AVE	SCOTTSDALE	AZ	85259
AHMAD NAZEMUDDIN/NAZISH	12457 E COCHISE DR	SCOTTSDALE	AZ	85259
SZEG KIM WILLIAM/DEBRA SUE	12483 E COCHISE DR	SCOTTSDALE	AZ	85259
HURST DEBORAH/MICHAEL	12508 E GOLD DUST AVE	SCOTTSDALE	AZ	85259
ARTOUNIAN VAZGEN R	12504 E GOLD DUST AVE	SCOTTSDALE	AZ	85259
MICHELE LOPOPOLO TESTAMENTARY TR/LOPOPOLO A	238 VAN SICKLEN ST	BROOKLYN	NY	11223
CHARI SATHISH/BERNADETTE	12511 E COCHISE DR	SCOTTSDALE	AZ	85259
CORDOVANA FRANCES TR	4534 E PEBBLE RIDGE RD	PARADISE VALLEY	AZ	85253
HUDSON STEVEN W/JENNIFER R	12580 E GOLD DUST AVE	SCOTTSDALE	AZ	85259
MORGAN FAMILY REVOCABLE TRUST	12590 E GOLD DUST AVE	SCOTTSDALE	AZ	85259
OLCAVAGE JOSEPH L/DONNA R	12601 E COCHISE DR	SCOTTSDALE	AZ	852595229
COVEN FAMILY TRUST	4532 E BERYL LN	PHOENIX	AZ	85028
BARRETT THOMAS D/SHANNAN L	12626 E TURQUOISE DR	SCOTTSDALE	AZ	85259
BALLARD FAMILY TRUST	10145 N 126TH ST	SCOTTSDALE	AZ	85259
PRABHAKARAN VINAY/KOLANDRA JANSY	10075 N 126TH ST	SCOTTSDALE	AZ	85259
CINDY D MURRAY REVOCABLE LIVING TRUST	12595 E GOLD DUST AVE	SCOTTSDALE	AZ	85259
JUDITH A BITENC TRUST	12555 E GOLD DUST AVE	SCOTTSDALE	AZ	85259
COLBY JEFF J/GWENDOLYN R	12525 E GOLD DUST AVE	SCOTTSDALE	AZ	85259
LENDE NEIL D/MICHELLE L	19022 N 8TH AVE	PHOENIX	AZ	85027
ANNE S BLETHEN TRUST	10239 N 125TH ST	SCOTTSDALE	AZ	85259
ROSSIELLO VINCENZO/NUNZIA TR	12495 E GOLD DUST AVE	SCOTTSDALE	AZ	85259

O_NAME	O_ADDR1	O_CITY	O_STATE	O_ZIP
GLORIANNE MICHELS FAMILY LIMITED PARTNERSHIP	10242 N 125TH ST	SCOTTSDALE	AZ	85259
PFLEGER MICHAEL K/NATALIE C TR	10101 N 124TH ST	SCOTTSDALE	AZ	85259
MC ALLISTER LORI A	12425 E GOLD DUST AVE	SCOTTSDALE	AZ	852590000
EMERALD HILLS RANCH INC	10030 N 124TH ST	SCOTTSDALE	AZ	85259
RONAN ANGELA E	13615 N 2ND ST	PHOENIX	AZ	850224709
LYNCH FAMILY LIVING TRUST	12414 E MOUNTAIN VIEW RD	SCOTTSDALE	AZ	85259
MACKAY TED H/GLORIA A TR	9869 N 124TH ST	SCOTTSDALE	AZ	85259
HENDRY WILLIAM D/KATHRYN A	9911 N 124TH ST	SCOTTSDALE	AZ	85259
KELLDORF FAMILY TRUST	9989 N 124TH ST	SCOTTSDALE	AZ	85260
MATUSH JOHN A/SUSAN S	12430 E MOUNTAIN VIEW RD	SCOTTSDALE	AZ	85259
MOUNTAIN VIEW BY CANAL LLC	5995 N 78TH ST #1038	SCOTTSDALE	AZ	85250
SURRAN RICHARD/GEIGER HARRISON/BURRIS D TR	12201 E MOUNTAINVIEW RD	SCOTTSDALE	AZ	85259
KALINA STEVEN P/ALISON L	9920 N 126TH ST	SCOTTSDALE	AZ	85259
LAMARRE ANDRE/HOUDE SUSAN/FLIP THAT LLC	9970 N 126TH ST	SCOTTSDALE	AZ	85259
VANDERHOOF JOHN/SETHA	9899 N 123RD ST	SCOTTSDALE	AZ	85259
SANDERS FAMILY TRUST	9929 N 123RD ST	SCOTTSDALE	AZ	85259
FIFE TERRY D/M PAULINA TR	9927 N 123RD ST	SCOTTSDALE	AZ	85259
GOLDFINE DAN/SCHWARTZ ROBBIE D	9939 N 123RD ST	SCOTTSDALE	AZ	85259
BECKER RUSSELL WAYNE/CAROLINE BARBARA	12317 E NORTH LN	SCOTTSDALE	AZ	85259
HALE DEBRA S	12323 E NORTH LN	SCOTTSDALE	AZ	85259
RADECKI BRIAN/KATHY	12329 E NORTH LN	SCOTTSDALE	AZ	85259
OXENREITER WILLIAM F III/RENATE C	2388 HILLTOP RD	PRESTO	PA	15142
LOGAN PAUL E/NANCY L	12341 N NORTH LN	SCOTTSDALE	AZ	85259
GOLDENSON ERIK R/MIA J	12442 E POINSETTIA DR	SCOTTSDALE	AZ	85259
GHERFAL HUSAM I	12346 E NORTH LN	SCOTTSDALE	AZ	85259
SEHRA ARUN K/PROMILA	12338 E NORTH LN	SCOTTSDALE	AZ	85259
BELLE TARA	12332 E NORTH LN	SCOTTSDALE	AZ	85260
GHERFAL HUSAM	12326 E NORTH LN	SCOTTSDALE	AZ	85259
SCHLUETER PAUL/HEATHER	12320 EAST NORTH LANE	SCOTTSDALE	AZ	85259
FERRIS CHAD/MEREDITH	12314 E NORTH LN	SCOTTSDALE	AZ	85259
NALEPA MICHAEL	12308 E NORTH LN	SCOTTSDALE	AZ	85259
HINKLE CHAZ WILLIAM	12302 E NORTH LN	SCOTTSDALE	AZ	85259
ESSIGS CHARLES R/MARCIA TR	10350 N 124TH ST	SCOTTSDALE	AZ	85259
PUEBLO POQUITO HOMEOWNERS ASSOCIATION	12285 E TURQUOISE AVE	SCOTTSDALE	AZ	85259
MONTACINO AT MCDOWELL MOUNTAIN HOA	2432 W PEORIA AVE SUITE 1302	PHOENIX	AZ	85029

URS

APPENDIX C



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

0 375 750 Feet

URS

APPENDIX D

March 5, 2015

Re: **Neighborhood Notification for Shea Tunnel Access Shared Use Pathway**

Dear Sir / Madam:

The City of Scottsdale plans to construct a shared use pathway that begins on the northeast corner of Shea Boulevard and 124th Street and ends at the northeast corner of 124th Street and the Central Arizona Project (CAP) canal. The project will provide a non-motorized connection for pedestrians, bicyclists, and equestrians to the Mountain View Trail from Lost Dog Wash Trailhead at the entrance to McDowell Sonoran Preserve on 124th Street north of the project area to Stonegate Equestrian Park on 120th Street to the southeast of the project area. The project will improve the existing pedestrian tunnel under Shea Boulevard with a new shared use path, pedestrian lighting, drainage improvements, and landscaping. The site plan is attached.

The site information is as follows:

- Site Area: 3 Acres
- Zoning: N/A
- Applicant: AECOM (legacy URS), Ella Ely

As a part of the City's Development Review process, this neighborhood notification letter is being sent to you as a property owner or homeowner's association located within a 750 foot radius of the project. If you have any questions regarding this project please contact the City of Scottsdale Capital Project Management staff member Thyra Ryden-Diaz at TRyden-diaz@scottsdaleaz.gov (480-312-4327) or the City's consulting engineer Ella Ely at ella.ely@aecom.com (602-371-1100).

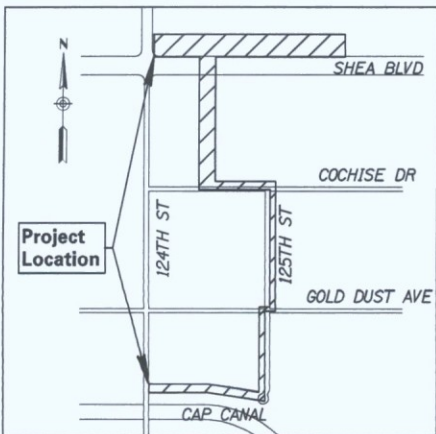
Sincerely,

AECOM (Legacy URS Corporation)



Ella Ely, PE
Project Manager

AECOM and URS have joined together as one company



Shea Tunnel Access Shared Use Pathway Vicinity Map
Not to scale

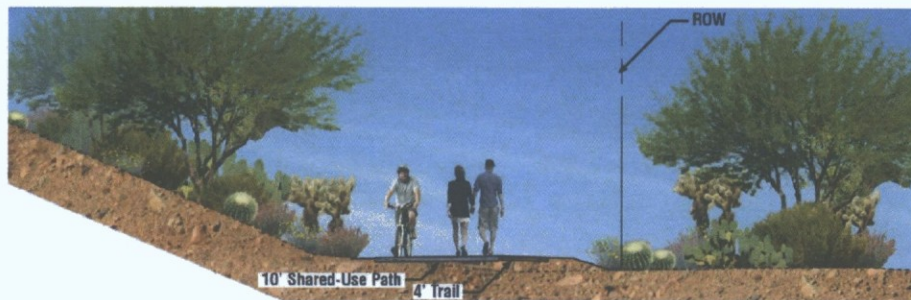
Legend

Shared-Use Path and Trail

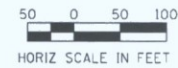
Trail


Shared-use Path: 10' concrete pathway

Trail: Stabilized decomposed granite pathway that varies in width from 4' to 8' depending on location



Elevation View A-A
Not to scale



ENGINEER		PUBLIC WORKS	
CITY OF SCOTTSDALE DEVELOPMENT REVIEW BOARD		 CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	
SHEET TITLE			
SITE PLAN			
PROJECT TITLE			
SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL			
SCALE	DESIGNED	DATE	BID NO.
HORIZ. 1"=200'	EE	3/14	
VERT. NA	DRAWN	AS-BUILT	PROJECT NO.
	EE		410-TB02A-56047
			OF

URS

APPENDIX E

Neighborhood Notification Comments

3/10/15 @ 1:30 pm phone call from Brian Radecki. He lives west of 124th Street and south of Shea Boulevard said he was unaware of the existing tunnel. Ella Ely told him that the City of Scottsdale installed the tunnel in preparation for the connection of the Mountain View Trail. The resident was concerned about the path not being accessible from the south side of Shea Boulevard. Ella told him that she was going to meet with the City to discuss this connection. He expressed his support of connecting the bus bay to the proposed path south of the tunnel. He said that he would be a lot more likely to use the path if this connection was created.

3/16/15 @ 1:09 pm email from Brain Radecki (see attached)

3/31/2015 @ 9:15 am phone call from Kim Wilkinson. She lives at 12496 E Gold Dust Ave (on the north west corner of 125th Street and Gold Dust Avenue) and the reason she was calling was because she was concerned about how the project was going to impact the plants on her property and wanted to meet with someone at her property to discuss the project. Ella Ely told her that the project is still being designed, however based on the current design there will be limited impact to the corner of 125th Street and Gold Dust Avenue. Ella suggested that Ms. Wilkinson contact Thyra Ryden-Diaz with the City of Scottsdale to set up a potential meeting. Ella followed up with Thyra and said that AECOM would be happy to meet with Ms. Wilkinson at the City's request. Thyra said that at this stage of the project there is not much to discuss and since Ms. Wilkinson did not contact her no further action was required.

Ely, Ella

From: Ryden-Diaz, Thyra <TRyden-Diaz@scottsdaleaz.gov>
Sent: Thursday, March 19, 2015 9:59 AM
To: RADECKI, BRIAN
Cc: Ely, Ella; Conklu, Susan
Subject: Re: Neighborhood notification Shea Tunnel

~~Thank you, Mr. Radecki for your interest in this project.~~

We are in the initial design phases and preliminary steps through the federal authorization process, so we do not all the details on the design and construction of the path.

In your conversation with our engineer, Ella she may have already answered some of your questions. There will be a sidewalk connection from Shea through the underpass and then continuing down to the CAP canal. This should provide safe access to cross Shea and provide some additional conductivity for your neighborhood.

I appreciate your suggestions and will look to see if we can incorporate some screening to the electrical boxes at 124th Street and Shea as we move through the design process.

It will take us another year to move through the federal authorization process. If you have any questions regarding the project, please feel free to contact myself, Ella or Susan Conklu, whom I have copied on this email from the City of Scottsdale transportation department who would be able to provide you even more information on the connections to your neighborhood.

Thank you again for your interest.

Thyra Ryden-Diaz, PE
Sr. Project Manager
Capital Project Management
City of Scottsdale

Sent from my iPad

On Mar 16, 2015, at 1:09 PM, RADECKI, BRIAN <BRADCKI@azcorrections.gov> wrote:

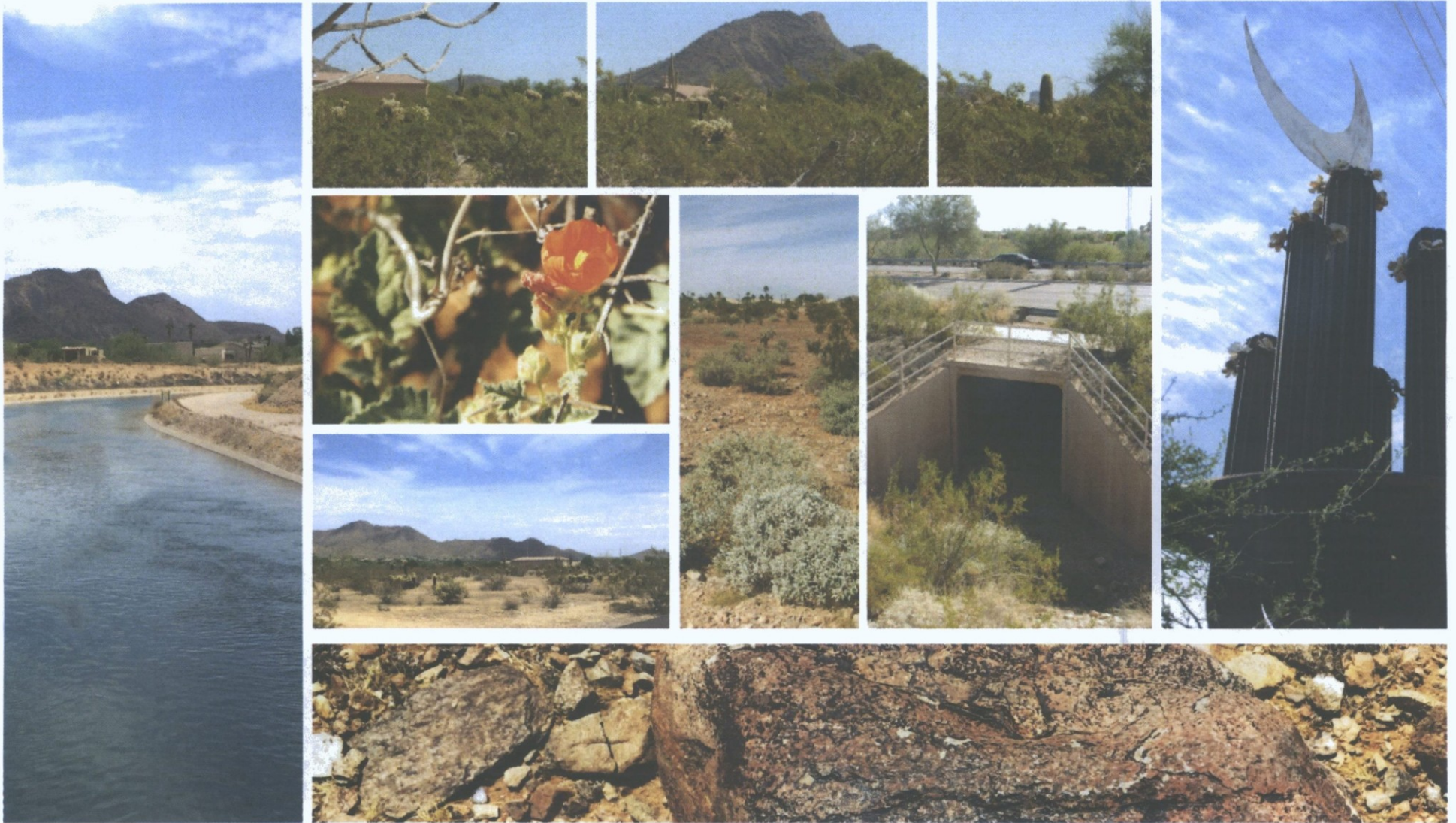
Greetings,

My wife and I live at Montacino at McDowell Mountain just west of the corner of 124th and Shea and we received your letter and to be honest were quite surprised that there was a tunnel underneath Shea. I have never seen horses use the trail from Shea to the Lost Dog trail and doubt whether this new trail and under the road tunnel will increase horse usage. We do not like to cross Shea, either walking or on bikes and we would use the tunnel only if you extended the sidewalk on the South side of Shea from the current bus stop to the actual tunnel with access from the sidewalk. I believe that others in the neighborhood would use it as well so what are the chances that this could be part of the project that would allow usage from 22 homes in our development? The cost of \$ 600,000 seems quite exorbitant but if you are going to do it than why not find a way to extend the sidewalk. Note I verbally communicated this to Ella Ely last week. In addition what about taking a look at the southwest corner of 124th and Shea as it is a eyesore with large electric boxes clearly visible along with weeds and etc. All along Shea except for this area are very nice metal decorative pieces that cover the unsightly power

boxes so again why not spend a little here and get these eye sores covered. Thanks for listening and hopefully you will take these ideas and get them proposed and implemented.

Brian Radecki
12329 E. North Lane
Scottsdale, Arizona 85259.

Shea Blvd. Tunnel Access at 124th Street - Shared-Use Path and Trail Improvements



Shea Blvd. Tunnel Access at 124th Street - Shared-Use Path and Trail

Photo Log December 2014



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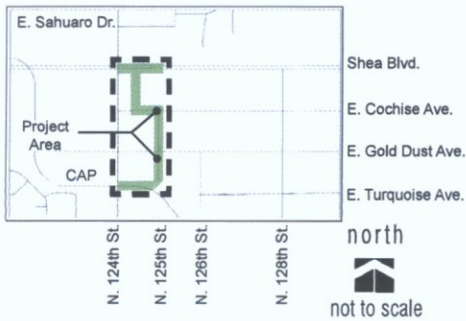
	Page
Site Contextual Exhibit:	
Plan View	1
Exhibit A:	
Directional Photos	2
Exhibit B:	
Directional Photos	8
Exhibit C:	
Directional Photos	15

Site Contextual Exhibit:
Plan View



north

 not to scale



Shea Blvd. Tunnel Access at 124th St.
Vicinity Map

LEGEND




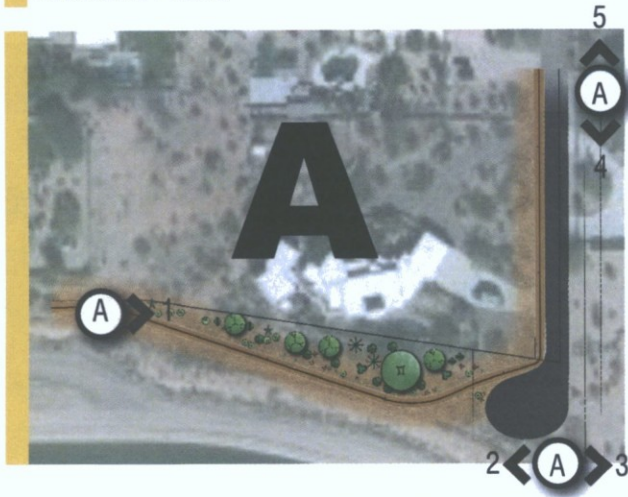
-  Project Limits
-  Exhibit
-  Directional Site Photos

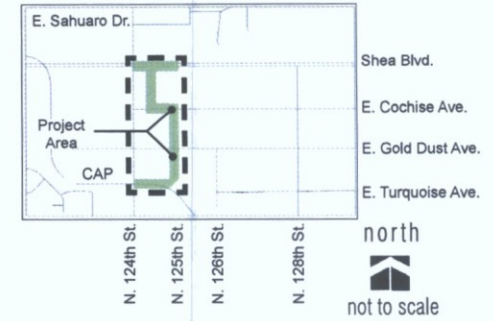
Exhibit A:
Directional Photos



Legend

- A** — Exhibit
- #** — Directional Site Photos
- north
no scale

Keymap



Shea Blvd. Tunnel Access at 124th St.
Vicinity Map





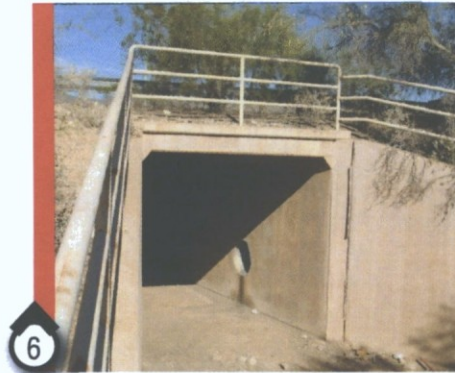
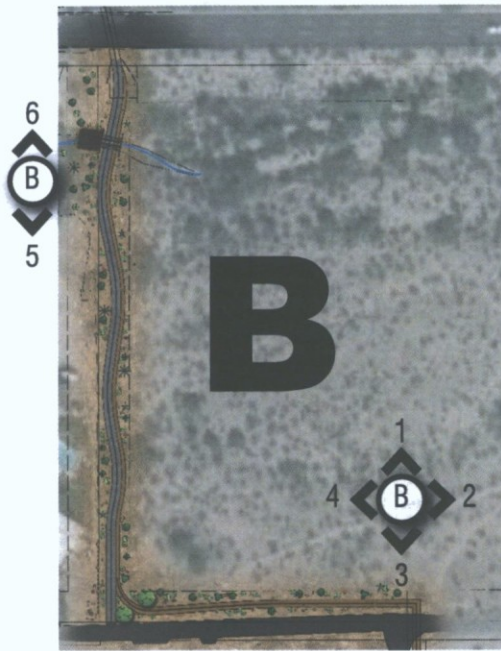






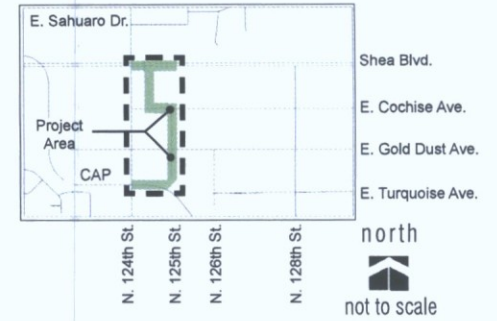


**Exhibit B:
Directional Photos**



north
no scale

Keymap



**Shea Blvd. Tunnel Access at 124th St.
Vicinity Map**

Legend

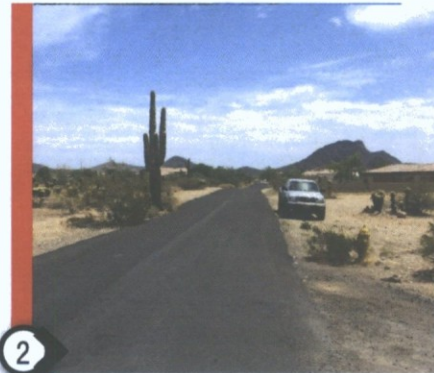
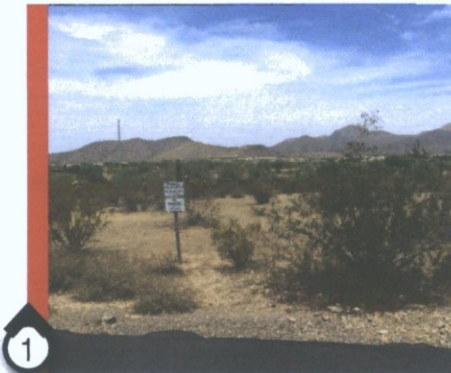
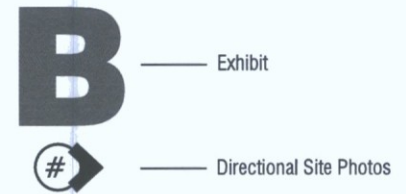






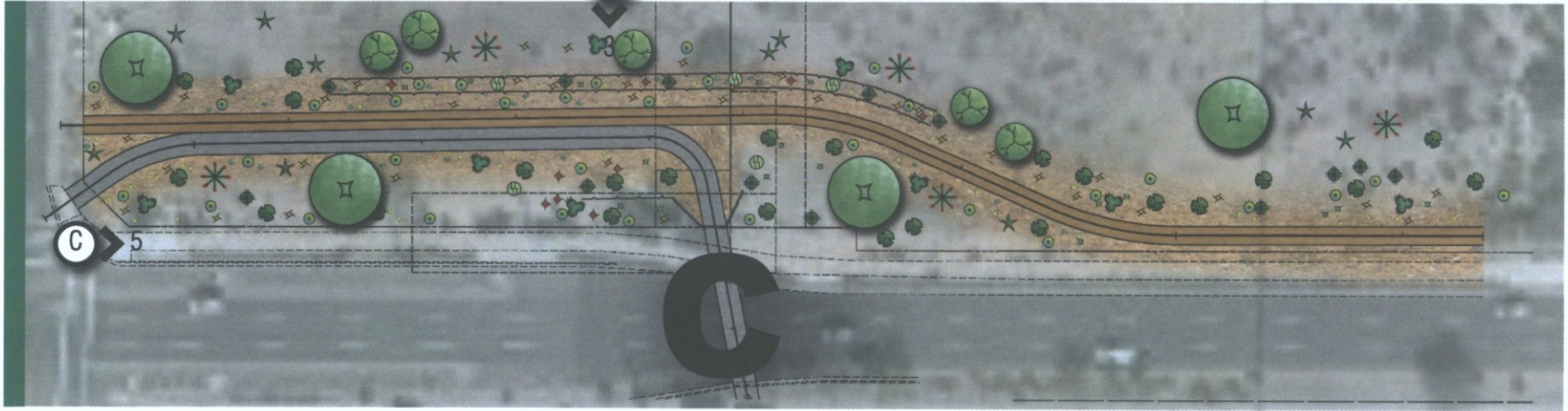








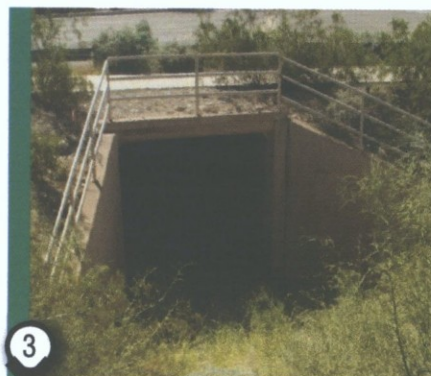
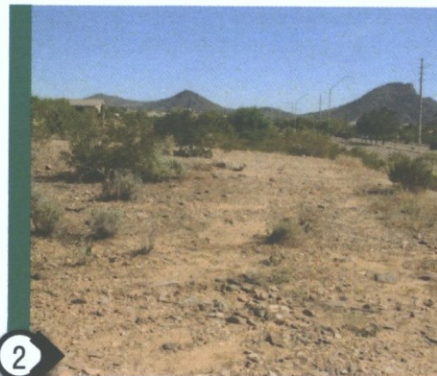
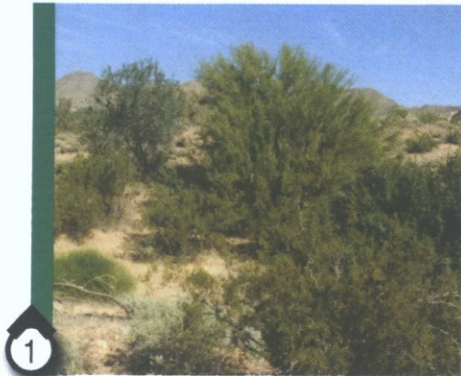
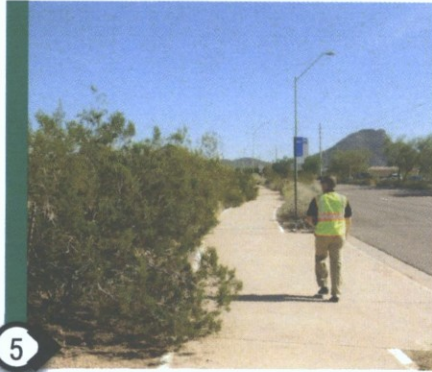
Exhibit C:
Directional Photos



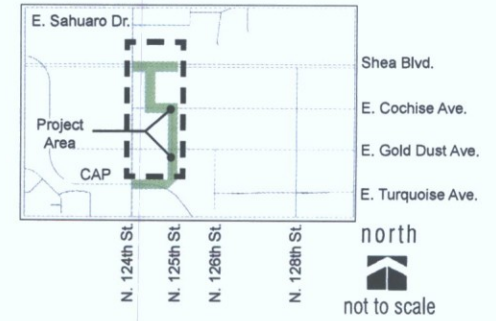
Legend



north



Keymap



**Shea Blvd. Tunnel Access at 124th St.
Vicinity Map**

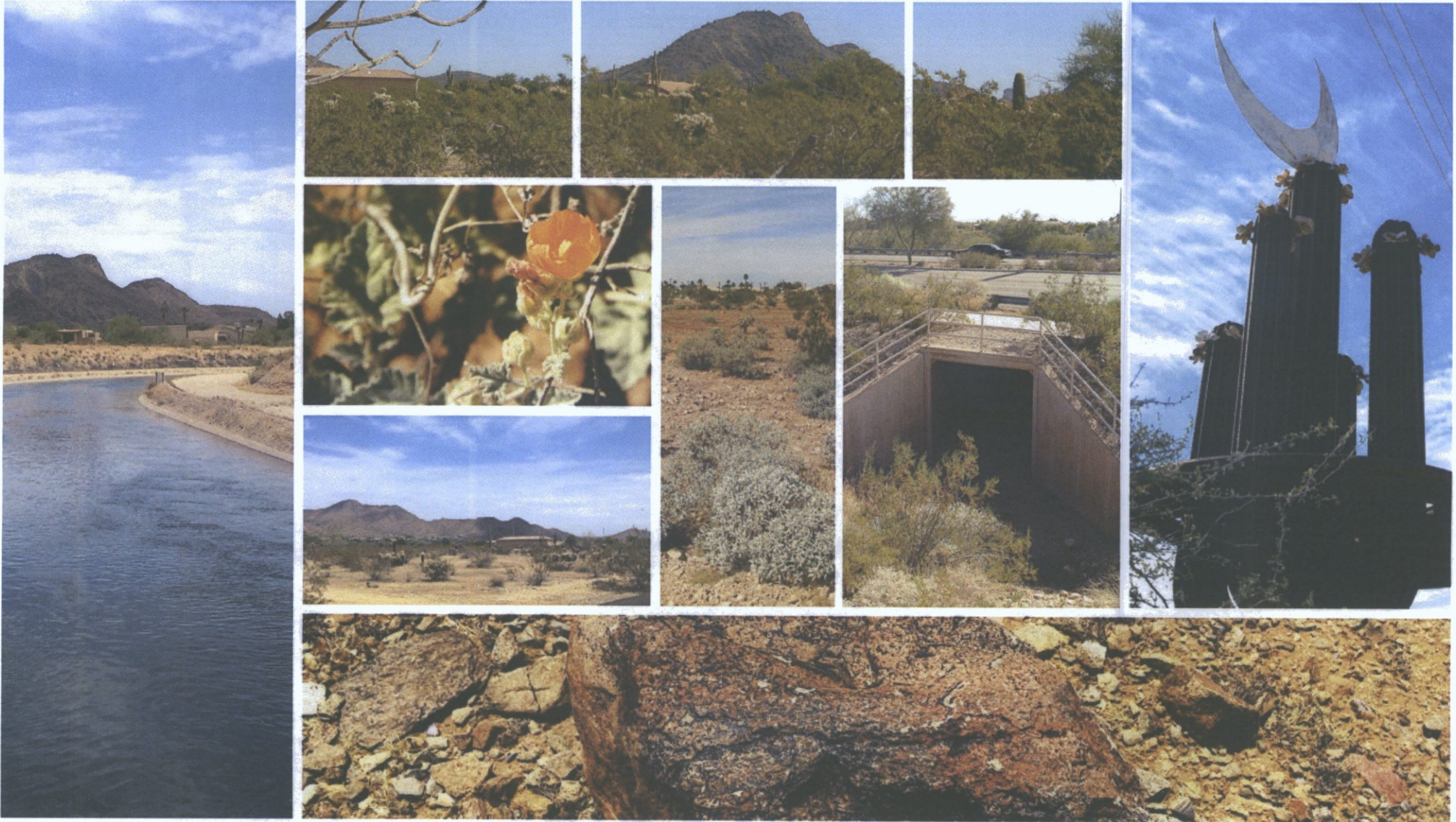












Shea Blvd. Tunnel Access at 124th Street - Shared-Use Path and Trail

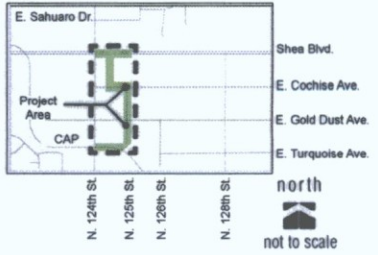
December 2014



URS



WRIGHT
engineering corporation



Shea Blvd. Tunnel Access at 124th St.
Vicinity Map

Legend

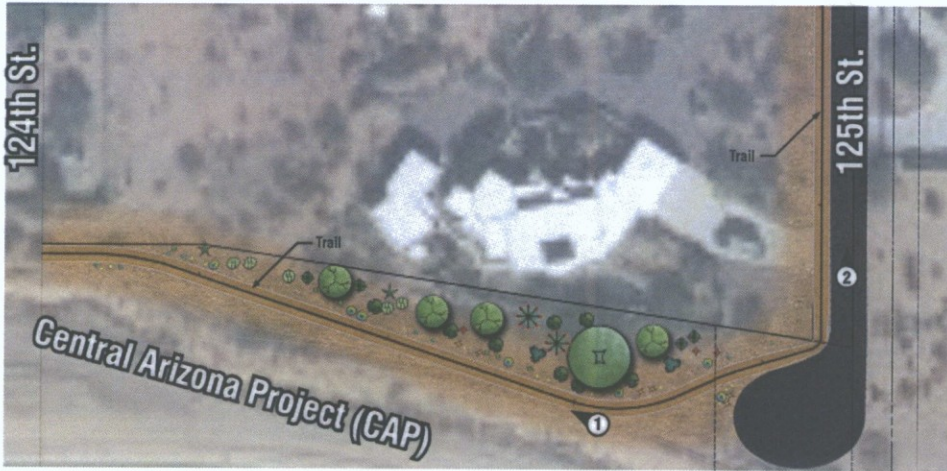
- Alignment 1**
Trail
- Alignment 2**
Shared-use Path and Trail
- Alignment 3**
Trail

Shared-use Path: 10' concrete pathway for pedestrians and bicyclists.

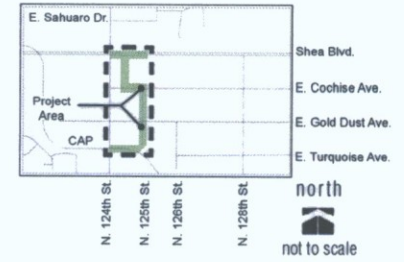
Trail: Stabilized decomposed granite pathway that varies in width from 4' to 8' depending on location.



CITY OF SCOTTSDALE PUBLIC WORKS CAPITAL PROJECT MANAGEMENT TRAY L. DEJAN SCHOOL, RD. SCOTTSDALE, ARIZONA 85259			
HARDSCAPE AND LANDSCAPE EXHIBITS			
SHEA BLVD. TUNNEL ACCESS AT 124TH ST. SHARED-USE PATH AND TRAIL			
REV	DESCRIPTION	DATE	BY
N/A	DH/EM	12/14	XX/02
N/A	DH/EM		2
		410-TB02A-56047	2



north
PLAN VIEW
 not to scale



**Shea Blvd. Tunnel Access at 124th St.
 Vicinity Map**



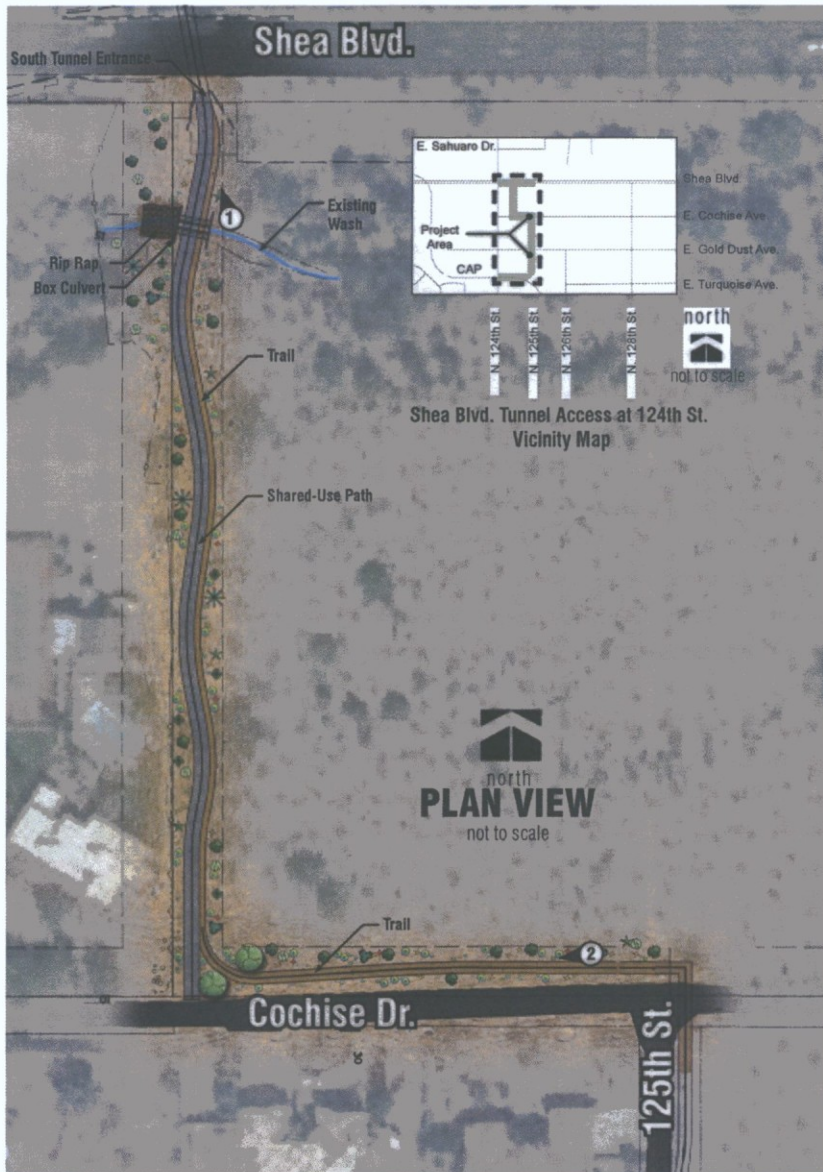
1. View looking West towards 124th St. along CAP



2. View looking North towards Gold Dust Ave.



DATE	REVISION	BY
05/25/24		
CITY OF SCOTTSDALE DEVELOPMENT REVIEW BOARD 302		
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT		7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85258
HARDSCAPE AND LANDSCAPE EXHIBITS		
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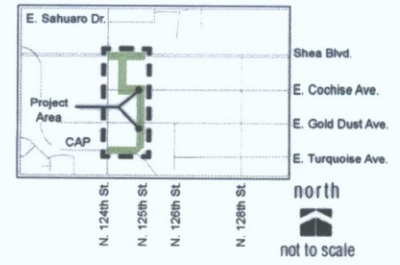


1. View looking North towards South Tunnel Access under Shea Blvd.



2. View looking West along Cochise Dr.

DATE: 07/24/14	BY: [Signature]	NO.:	10
CITY OF SCOTTSDALE PUBLIC WORKS CAPITAL PROJECT MANAGEMENT			
7441 E. INDIAN SCHOOL, RD. SCOTTSDALE, ARIZONA 85260			
HARDSCAPE AND LANDSCAPE EXHIBITS			
SHEA BLVD. TUNNEL ACCESS AT 124TH ST. SHARED-USE PATH AND TRAIL			
REV: N/A	DATE: 02/14	BY: XXXX	NO.:
REV: N/A	DATE: 02/14	BY: 410-TR02A-56047	NO.: 4
			10



north
PLAN VIEW
 not to scale

Shea Blvd. Tunnel Access at 124th St.
 Vicinity Map



1. View looking at the North Tunnel Access under Shea Blvd.



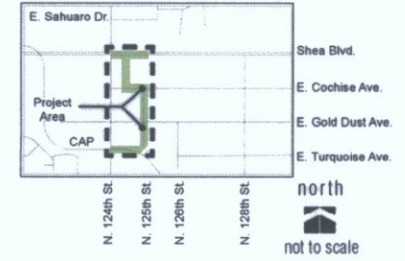
2. View looking West towards 124th St. and Shea Blvd.



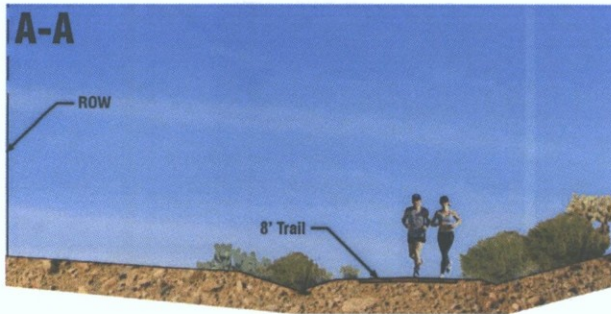
CITY OF SCOTTSDALE PUBLIC WORKS CAPITAL PROJECT MANAGEMENT		CITY OF SCOTTSDALE ARIZONA 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	
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SHEA BLVD. TUNNEL ACCESS AT 124TH ST. SHARED-USE PATH AND TRAIL			
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N/A		DH/EM	410-TR02A-56047
			5 of 10



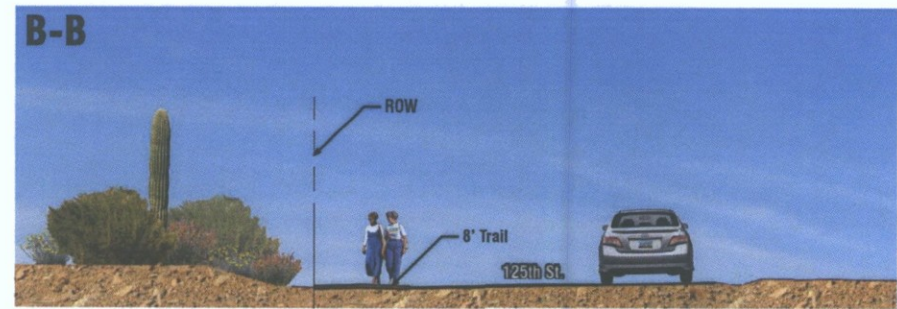
north
PLAN VIEW



**Shea Blvd. Tunnel Access at 124th St.
Vicinity Map**



ALIGNMENT - 1 STA 14+00 scale: 1"=5'
0 2.5' 5' 10'

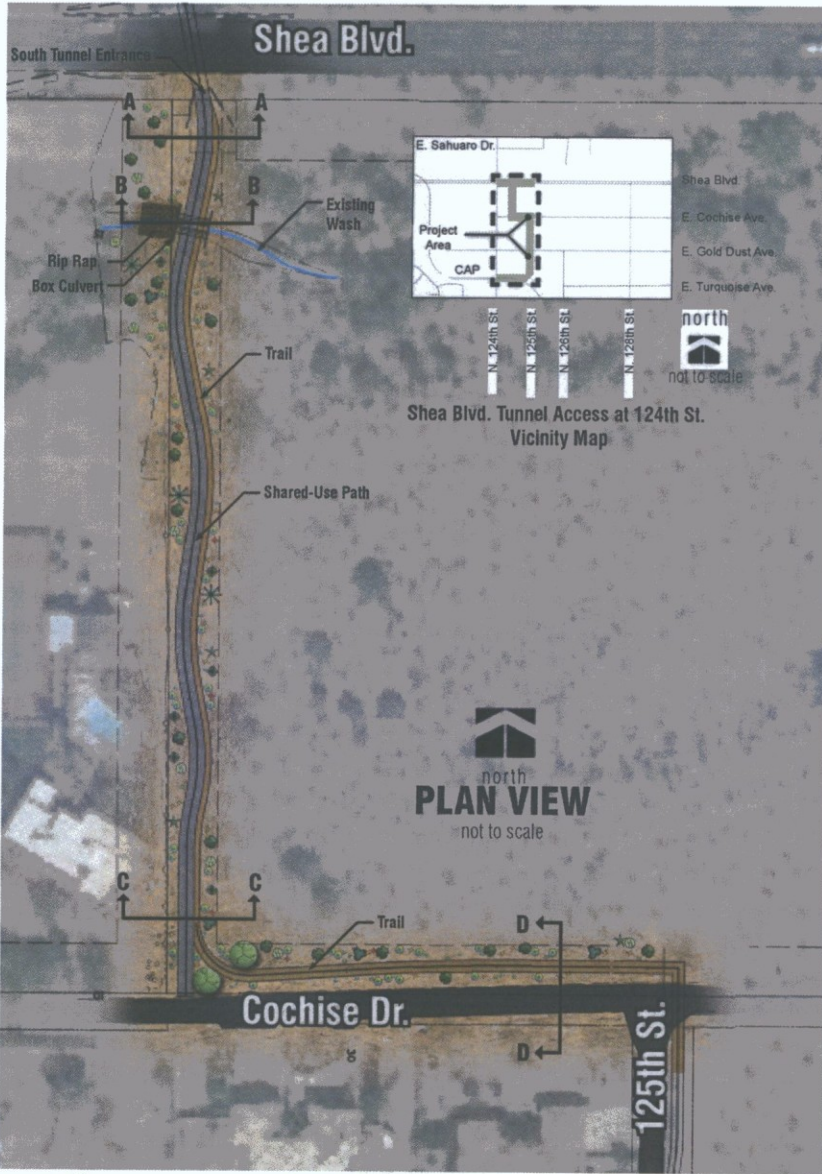


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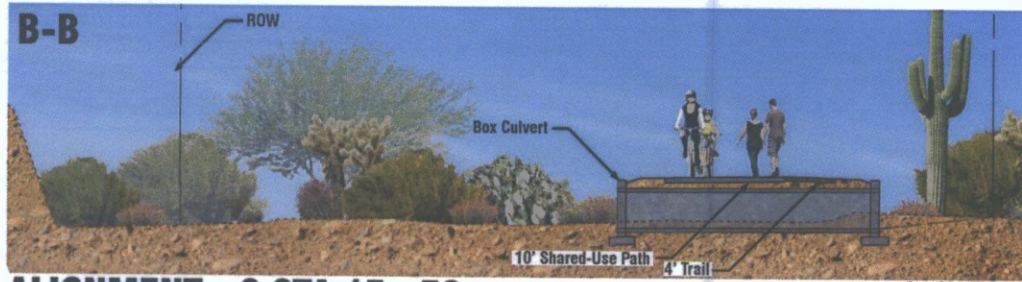


CITY OF SCOTTSDALE ARIZONA		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT	
HARDSCAPE AND LANDSCAPE EXHIBITS			
SHEA BLVD. TUNNEL ACCESS AT 124TH ST. SHARED-USE PATH AND TRAIL			
NO. / DATE	ISSUED BY	ISSUE NO.	DATE
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2 / N/A	DH/EM	03/07	2014
		410-TR02A-56047	6 of 10



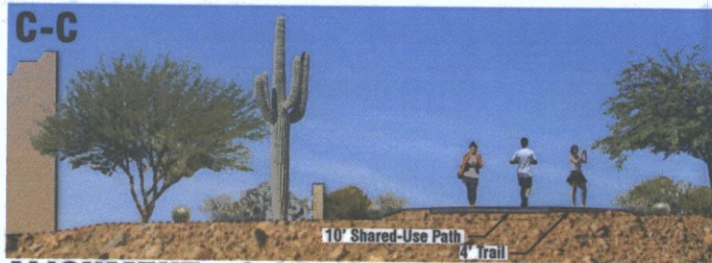
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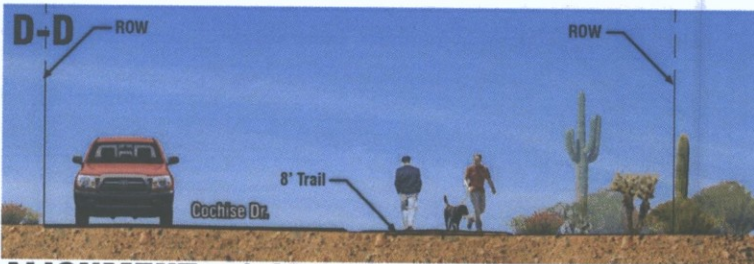
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ALIGNMENT - 2 STA 10+50

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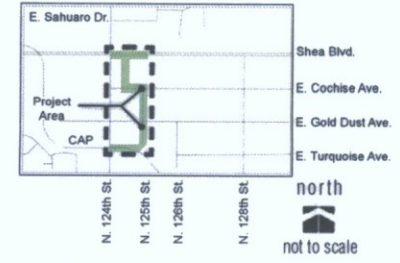
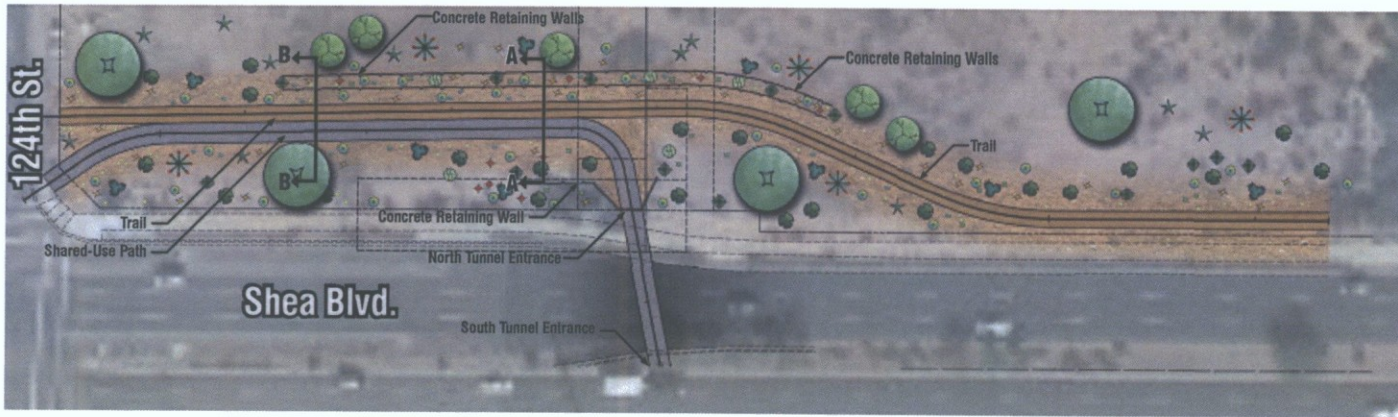


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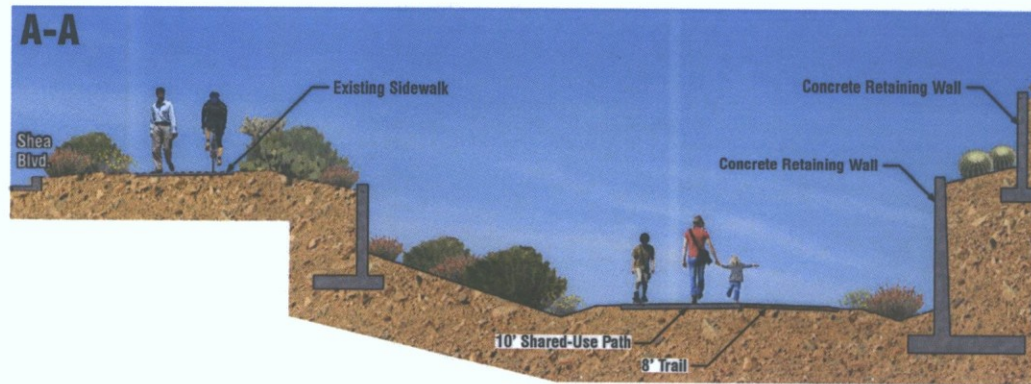


DATE	BY	CHKD	APP'D	
02/14	DH/EM			
CITY OF SCOTTSDALE DEVELOPMENT REVIEW BOARD		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT		
CITY OF SCOTTSDALE, ARIZONA 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85250				
PROJECT TITLE HARDSCAPE AND LANDSCAPE EXHIBITS				
PROJECT NAME SHEA BLVD. TUNNEL ACCESS AT 124TH ST. SHARED-USE PATH AND TRAIL				
NO. 1	N/A	DH/EM	02/14	XX XX
NO. 2	N/A	DH/EM		7
PROJECT NO. 410-TRO2A-REG.047				7 / 10



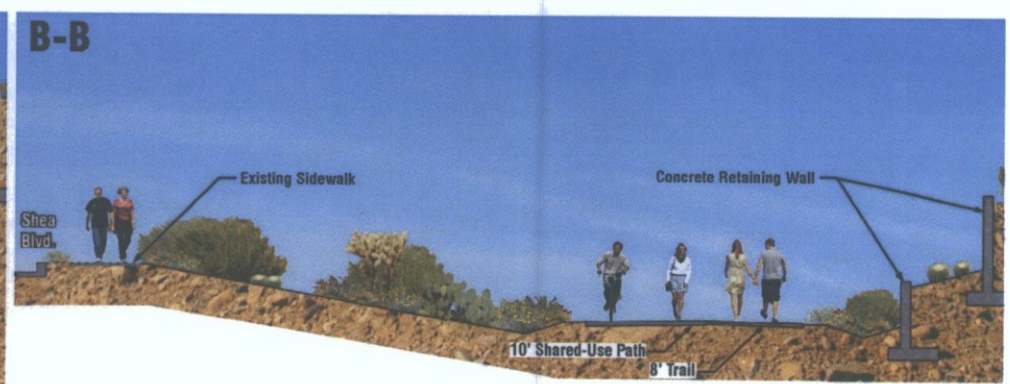
Shea Blvd. Tunnel Access at 124th St.
Vicinity Map

north
PLAN VIEW
not to scale



ALIGNMENT - 2 STA 18+00

scale: 1' = 5'
0 2.5' 5' 10'

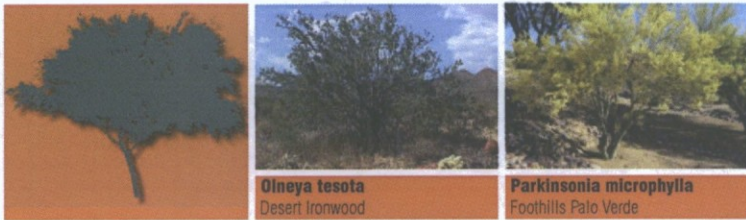


ALIGNMENT - 2 STA 19+15.63

scale: 1' = 5'
0 2.5' 5' 10'



DATE	REVISION	BY	
02/14/14			
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7441 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	
HARDSCAPE AND LANDSCAPE EXHIBITS			
SHEA BLVD. TUNNEL ACCESS AT 124TH ST. SHARED-USE PATH AND TRAIL			
NO.	DATE	DESCRIPTION	BY
1	N/A	02/14/14	XXXX
2	N/A	02/14/14	XXXX
3	N/A	02/14/14	XXXX
4	N/A	02/14/14	XXXX
5	N/A	02/14/14	XXXX
6	N/A	02/14/14	XXXX
7	N/A	02/14/14	XXXX
8	N/A	02/14/14	XXXX
9	N/A	02/14/14	XXXX
10	N/A	02/14/14	XXXX



Olneya tesota
Desert Ironwood

Parkinsonia microphylla
Foothills Palo Verde



Ambrosia deltoidea
Bursage

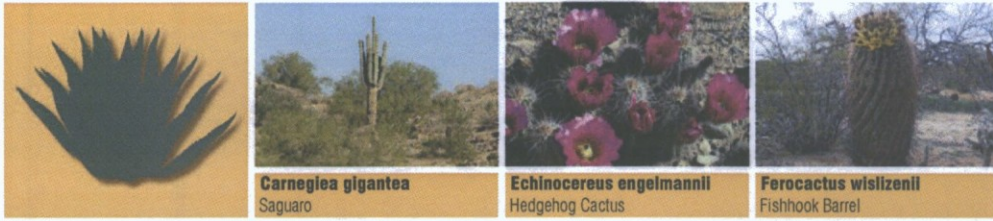
Baileya multiradiata
Desert Marigold



Encelia farinosa
Brittlebush

Larrea tridentata
Creosote

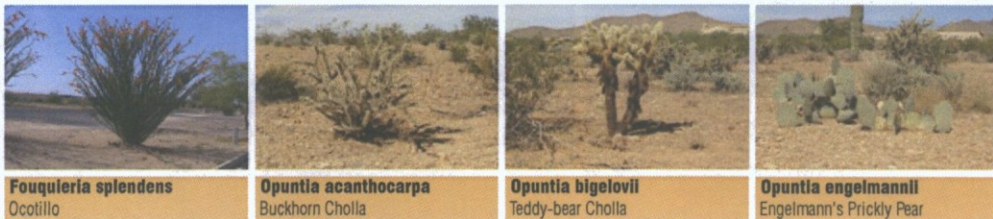
Sphaeralcea ambigua
Globemallow



Carnegiea gigantea
Saguaro

Echinocereus engelmannii
Hedgehog Cactus

Ferocactus wislizenii
Fishhook Barrel



Fouquieria splendens
Ocotillo

Opuntia acanthocarpa
Buckhorn Cholla

Opuntia bigelovii
Teddy-bear Cholla

Opuntia engelmannii
Engelmann's Prickly Pear

Plant Legend

	SYMBOL	BOTANICAL NAME	COMMON NAME
Trees		<i>Olneya tesota</i>	Desert Ironwood
		<i>Parkinsonia microphylla</i>	Foothills Palo Verde
Shrubs		<i>Ambrosia deltoidea</i>	Bursage
		<i>Baileya multiradiata</i>	Desert Marigold
		<i>Encelia farinosa</i>	Brittlebush
		<i>Larrea tridentata</i>	Creosote
		<i>Sphaeralcea ambigua</i>	Globemallow
	Accents		<i>Carnegiea gigantea</i>
		<i>Echinocereus engelmannii</i>	Hedgehog Cactus
		<i>Ferocactus wislizenii</i>	Fishhook Barrel
		<i>Fouquieria splendens</i>	Ocotillo
		<i>Opuntia acanthocarpa</i>	Buckhorn Cholla
		<i>Opuntia bigelovii</i>	Teddy-bear Cholla
		<i>Opuntia engelmannii</i>	Engelmann's Prickly Pear

“Southwest Arid” Landscape Theme Narrative

The landscape design character of the proposed Shea Blvd Tunnel Access at 124th St Shared-Use Path and Trail project has a “Southwest Arid” theme emphasizing transparency in the planting design intended to respect and enhance the unique climate, topography, vegetation and historical context of the project’s Southwest Sonoran desert environment. The character of the landscape design is influenced by the surrounding native desert plant material and abundance of natural inert materials found on the adjacent slopes of the McDowell Mountains as well as nearby Red Mountain with its array of angular fragments “Desert Pavement” of red and brown sandstone formations of brilliant orange and red illuminated by the rising and setting sun. The project’s native desert plant palette exhibits a commitment to water conservation and sustainability. All plant material installed on the project is listed on the Arizona Department of Water Resources low water use drought tolerant plant list and is in compliance with the City of Scottsdale’s Design Guidelines with specific attention to the Sensitive Design Principles and Design Standards Policy Manual.

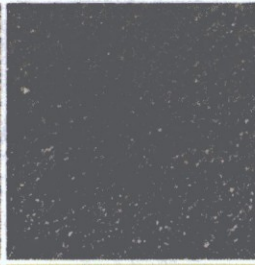
Proposed Inert Materials



6" Rip Rap



3" Desert Pavement



Stabilized Decomposed Granite

Proposed Site Amenities

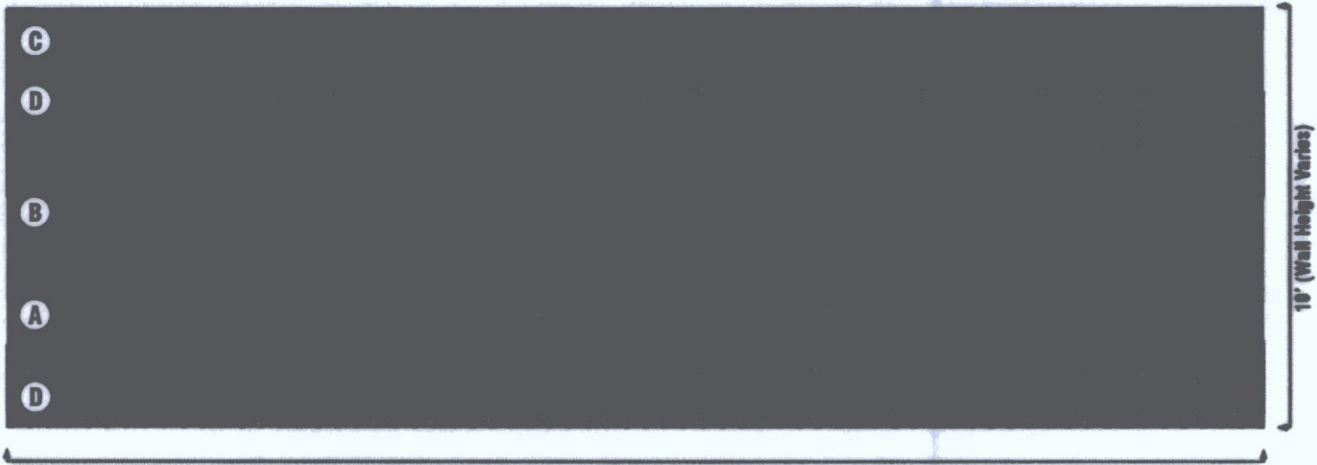


Gabion Aesthetic Seatwall



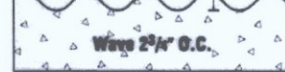
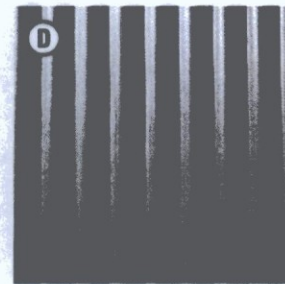
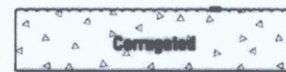
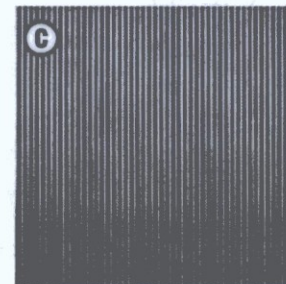
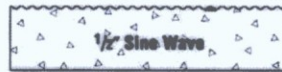
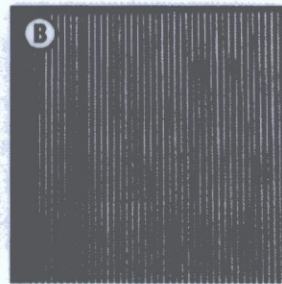
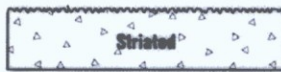
Trash Receptacle

Concrete Retaining Wall Rustication "Striation" Design



30' Wall Panel (Typ.)


Rustication Surface Treatment



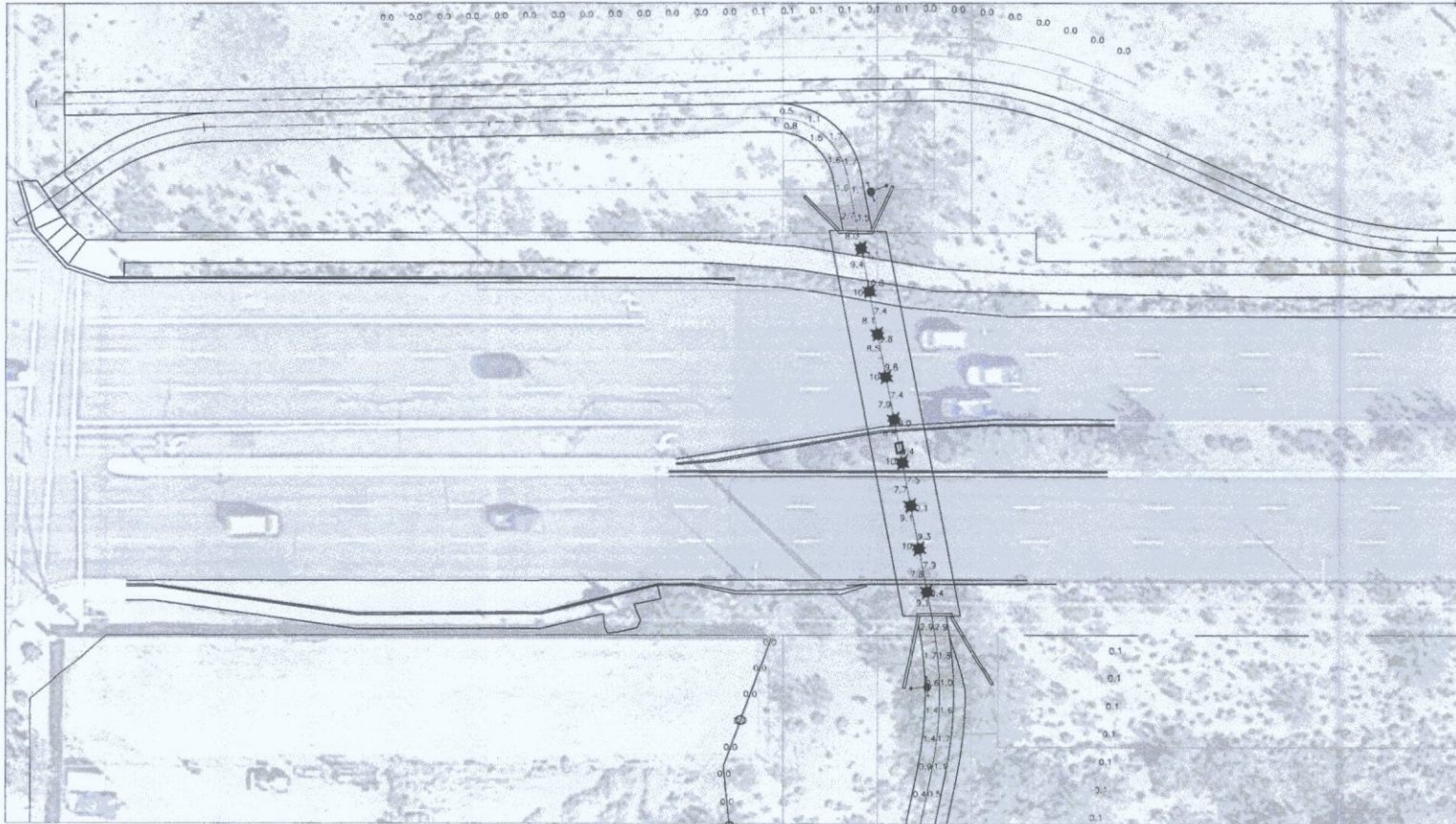
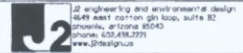
10' Typ.

Design Inspiration



DATE	NO. OF SHEETS	OF
02/20/14	10	10
CITY OF SCOTTSDALE DEVELOPMENT REVIEW BOARD 302		 PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7441 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85261
HARDSCAPE AND LANDSCAPE EXHIBITS		
SHEA BLVD. TUNNEL ACCESS AT 134TH ST.		
SHARED-USE PATH AND TRAIL		
NO. / N/A	DESIGN / DATE	NO. / DATE
10 / N/A	02/14	10 / XXXX
10 / N/A	410-TR02A-56047	10 / 10

PHOTOMETRIC ANALYSIS



NIGHT ANALYSIS RESULTS:

UNDERPASS WITH 5 FIXTURES ON 86 POINTS
HORIZONTAL FOOTCANDLES:
AVERAGE 5.9
MAXIMUM 11.0
MINIMUM 2.4
AVG-MIN 2.97
MAX-MIN 4.61

PATH AT EXITS OF UNDERPASS 25 POINTS
HORIZONTAL FOOTCANDLES:
AVERAGE 1.5
MAXIMUM 3.5
MINIMUM 0.5
AVG-MIN 2.97
MAX-MIN 7.00

SPILL LIGHT WEST OF PATH 10 POINTS
VERTICAL FOOTCANDLES:
AVERAGE 0.0
MAXIMUM 0.0
MINIMUM 0.0
AVG-MIN N/A
MAX-MIN N/A

SPILL LIGHT EAST OF PATH 10 POINTS
VERTICAL FOOTCANDLES:
AVERAGE 0.1
MAXIMUM 0.1
MINIMUM 0.0
AVG-MIN N/A
MAX-MIN N/A

SPILL LIGHT NORTH OF PATH 10 POINTS
VERTICAL FOOTCANDLES:
AVERAGE 0.0
MAXIMUM 0.1
MINIMUM 0.0
AVG-MIN N/A
MAX-MIN N/A

DAY ANALYSIS RESULTS:

UNDERPASS WITH 9 FIXTURES ON 86 POINTS
HORIZONTAL FOOTCANDLES:
AVERAGE 10.9
MAXIMUM 13.3
MINIMUM 7.7
AVG-MIN 14.1
MAX-MIN 17.1

LIGHTING CONTROL NOTES:

- PHOTOCELL AND PROGRAMMABLE TIMER WILL CONTROL THE LIGHTS. THE PHOTOCELL TO BE MOUNTED ON THE ELECTRICAL SERVICE ENTRANCE SECTION.
- ALL PRE-CURFEW LIGHTING WILL REMAIN ON FROM DUSK UNTIL CURFEW AT 10:00PM.

LEGEND:

- ⊗ AAL UNIVERSE FIXTURE (TYPE 10)
LAMP: 75 WATT, 32 LED
LAMP LUMENS: 8,721
LAMP COLOR TEMPERATURE: 4,000K
FIXTURE LENS HEIGHT: 18" - 0"TOTAL LIGHT LOSS FACTOR: 0.91
- ⊗ LUMINAIRE LIGHTING FFW FIXTURE
LAMP: 40 WATT, 30 LED
LAMP LUMENS: 3,414
LAMP COLOR TEMPERATURE: 4,000K
FIXTURE LENS HEIGHT: 9" - 4"
TOTAL LIGHT LOSS FACTOR: 0.91

UNDERPASS PHOTOMETRICS

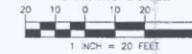
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77 119 113 91 103 131 111 93 113 133 104 94 119 130 99 96 126 126 96 99 130 119 94 104 133 113 93 111 131 103 91 113 119 77

DAY UNDERPASS (TOP VIEW)

70 107 93 82 39 24 38 48 87 110 76 41 26 28 34 81 107 101 69 33 26 27 42 78 110 88 47 28 24 30 64 84 107 69
89 108 93 53 30 25 28 48 88 103 75 41 27 25 34 60 101 101 69 33 25 27 42 75 109 86 47 28 25 30 63 83 108 69

NIGHT UNDERPASS (TOP VIEW)

GRAPHIC SCALE



GRAPHIC SCALE



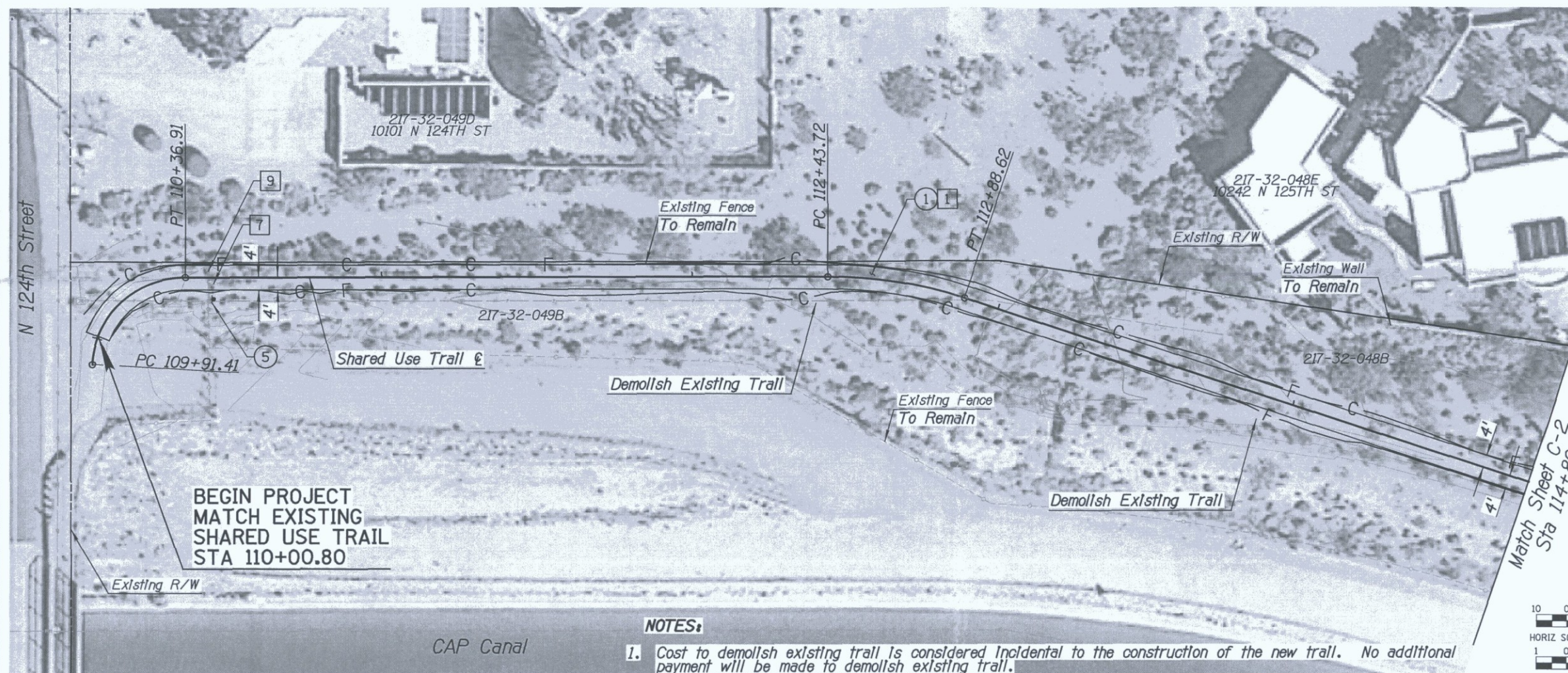
WRIGHT
engineering and design
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE
CHANDLER, ARIZONA 85225
PHONE: 480-497-5820
FAX: 480-497-5807
www.wrighteng.com
Wright Project # 14328

DATE	REVISION	BY
ENGINEER		
PRELIMINARY NOT FOR CONSTRUCTION	PUBLIC WORKS CAPITAL PROJECT MANAGEMENT	

SHEET TITLE		PHOTOMETRIC ANALYSIS	
PROJECT TITLE		SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL	
SCALE	DESIGNED	BY	RD NO.
DATE	DWG	12/14	10
REV.	DRAWN	AS-BUILT	PROJECT NO.
REV.	DWG	410-1802A-56047	01

ARIZONA BOUNDARY SURVEYORS
1-800-STAKE-IT
www.arizona-boundary.com

DESIGN FILE: P:\Projects\Civil\of_Scottsdale\2009-192-COS On-Call Contract\23446725 Shea Tunnel Access\CADD\Plans\216160.plt.dgn
 PLOT DATE: 1/16/2016 11:16:44 AM



URS 7720 N. 16th Street, Suite 100
 Phoenix, AZ 85020
 (602) 371-1100

REMOVAL & RELOCATION NOTES

Description	Unit	Quan
1 Clearing & Grubbing	AC	0.3
7 Remove Sign, Post & Post Base	EA	1
9 Remove & Reinstall Trail Access Gate	EA	1

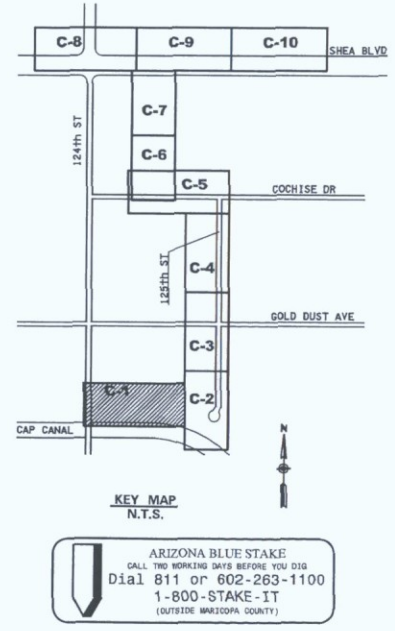
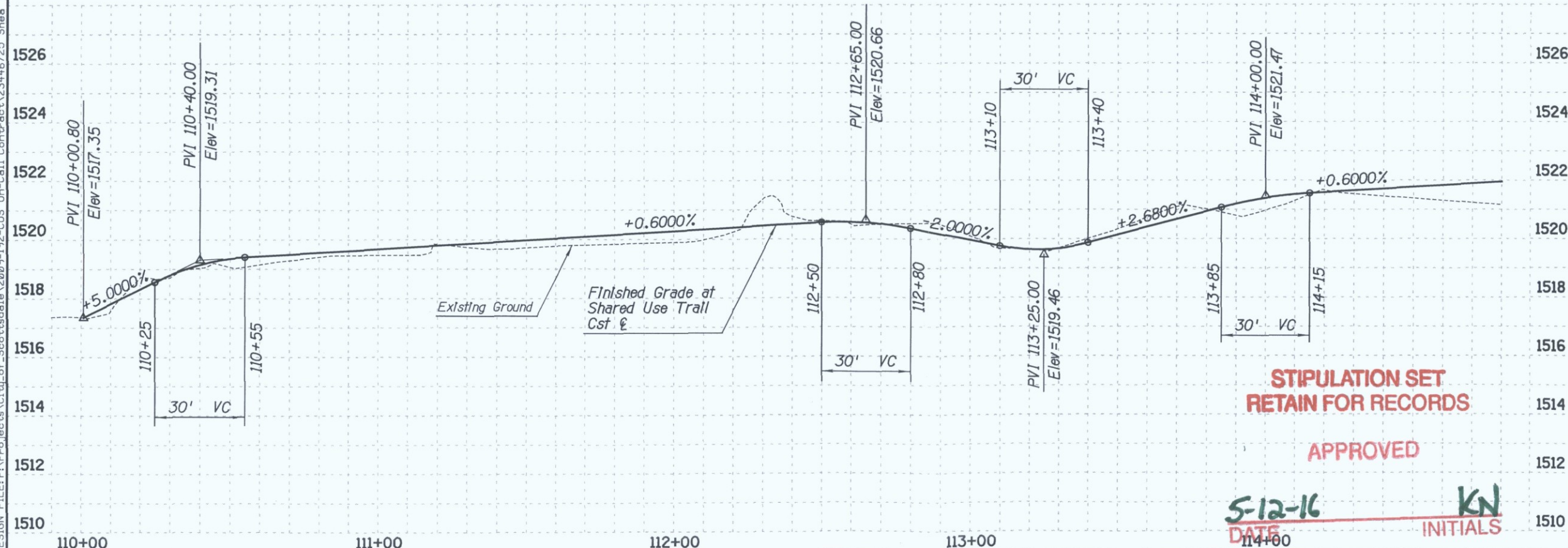
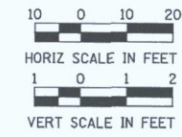
CONSTRUCTION NOTES

Description	Unit	Quan
1 Decomposed Granite (Stabilized)	SY	426
5 Install Sign, Trail Marker Sign, COS 2683	EA	1

BEGIN PROJECT MATCH EXISTING SHARED USE TRAIL STA 110+00.80

NOTES:

- Cost to demolish existing trail is considered incidental to the construction of the new trail. No additional payment will be made to demolish existing trail.



STIPULATION SET RETAIN FOR RECORDS

APPROVED

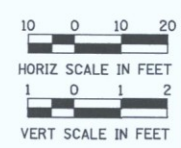
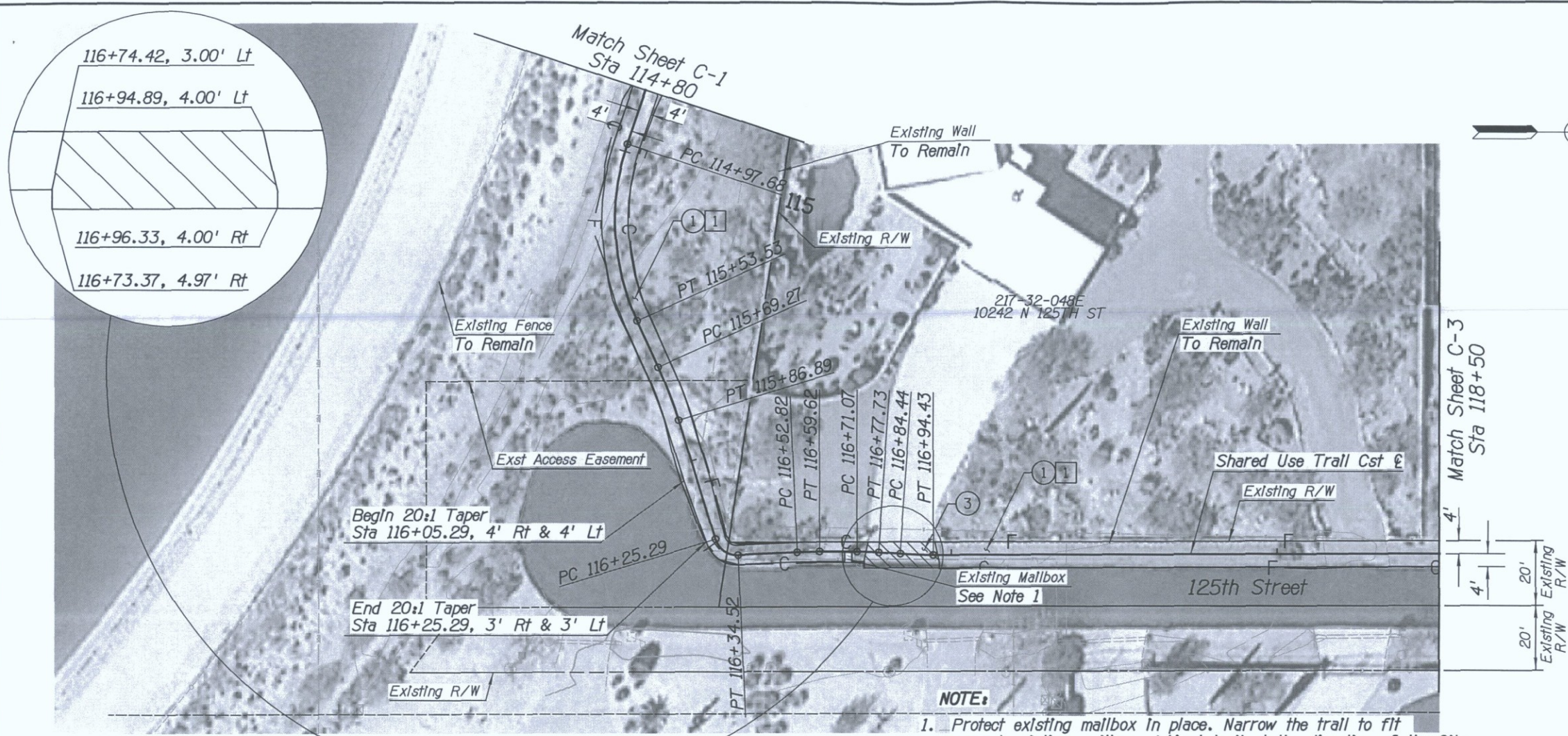
5-12-16
 DATE INITIALS

DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
Expire 12/31/2018 SHEET TITLE: SHARED USE TRAIL PLAN & PROFILE PROJECT TITLE: SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL SCALE: HORIZ. 1"=20', VERT. 1"=2' DESIGNED: EE, DATE: 6/15, BID NO.: 16BPO20, DWG: C-1 DRAWN: BP, AS-BUILT, PROJECT NO.: 16 OF 105		

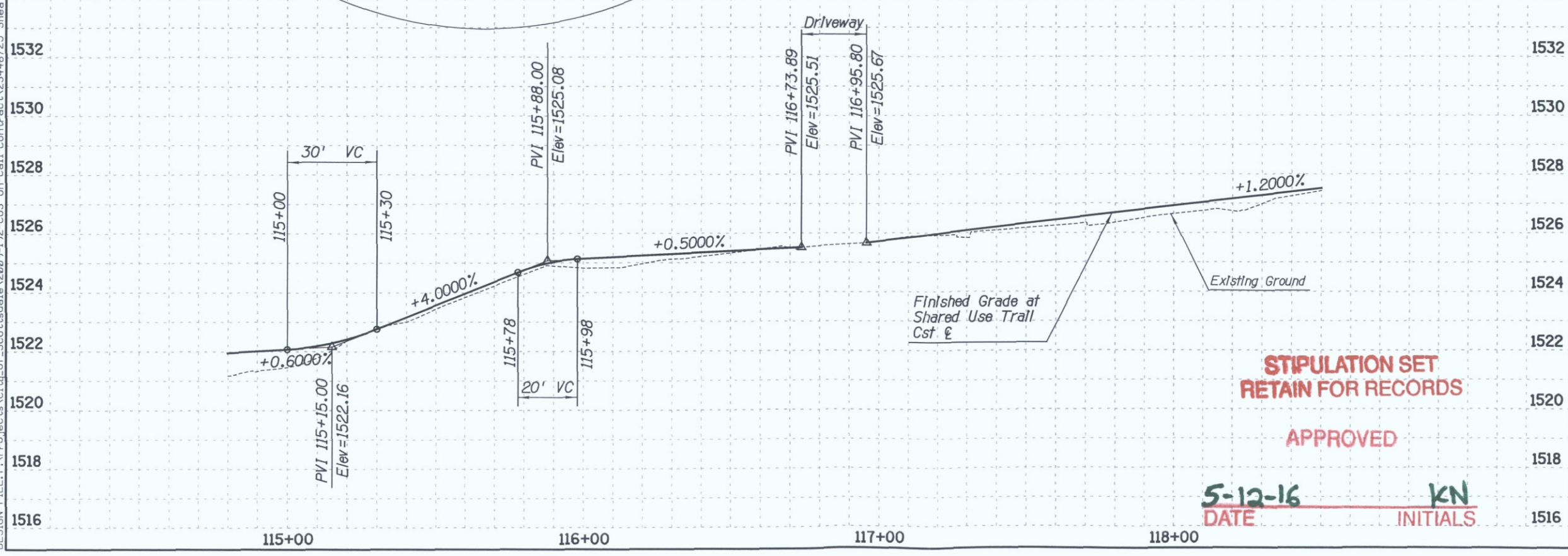
Shared Use Trail Profile

XXX-XX

DESIGN FILE: P:\Projects\City_of_Scottsdale\2009-192-COS On-Call Contract\23446725 Shea Tunnel Access\CADD\Plans\SZ1610_p2.dgn PLOT DATE: 1/16/2016 11:16:46 AM



NOTE:
1. Protect existing mailbox in place. Narrow the trail to fit around existing mailbox. Adjust trail at the direction of the City.



**STIPULATION SET
RETAIN FOR RECORDS**

APPROVED

5-12-16
DATE **KN**
INITIALS

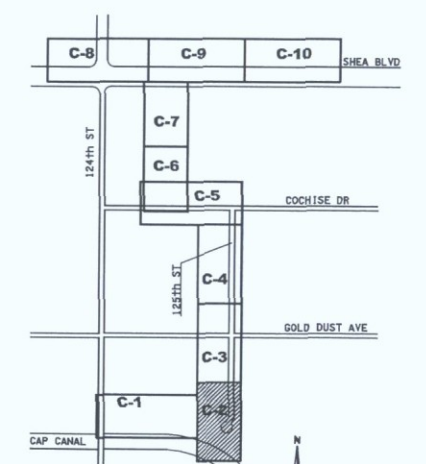
URS 7720 N. 16th Street, Suite 100
Phoenix, AZ 85020
(602) 371-1100

REMOVAL & RELOCATION NOTES

Description	Unit	Quan
1 Clearing & Grubbing	AC	0.1

CONSTRUCTION NOTES

Description	Unit	Quan
1 Decomposed Granite (Stabilized)	SY	296
3 Non Slip Treatment (Path Treatment)	SF	175



KEY MAP
N.T.S.

ARIZONA BLUE STAKE
CALL THE WORKING STAKE BEFORE YOU DIG
Dial 811 or 602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
1520		
1518		
1516		

ENGINEER: [Signature]

PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT

7447 E. INDIAN SCHOOL RD.
SCOTTSDALE, ARIZONA 85251

Expires 12/31/2018

SHEET TITLE: **SHARED USE TRAIL PLAN & PROFILE**

PROJECT TITLE: **SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL**

SCALE	DATE	BID NO.	DWG.
HORIZ. 1"=20'	EE 6/15	16BP020	C-2
VERT. 1"=2'	BP AS-BUILT	PROJECT NO.	17 OF 105

XXX-XX

DESIGN FILE: P:\Projects\City_of_Scottsdale\2009-192-COS On-Call Contract\23446725 Shea Tunnel Access\CADD\Plans\21610_p4.dgn PLOT DATE: 1/16/2016 11:16:49 AM



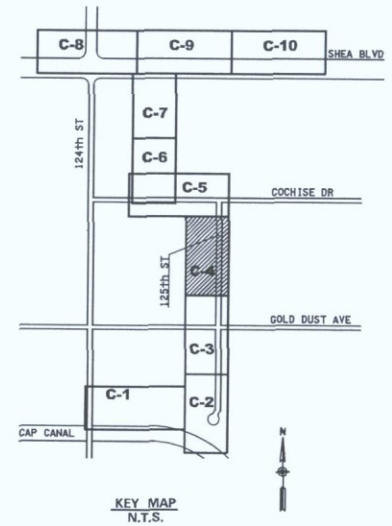
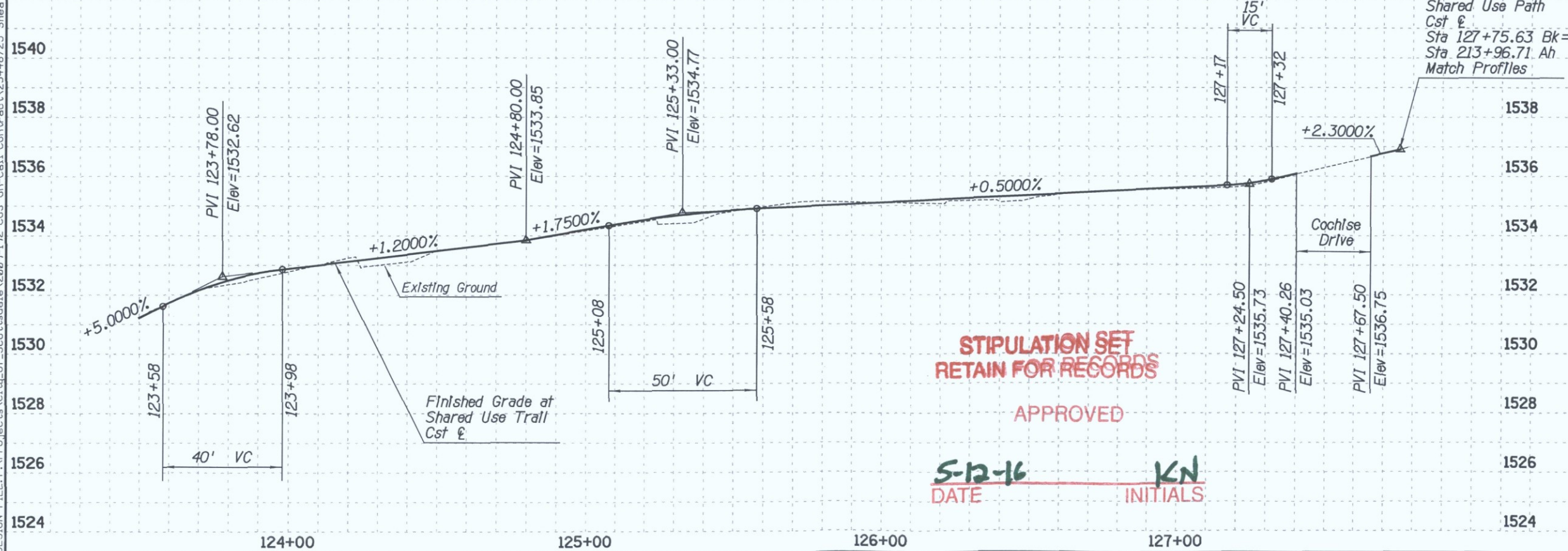
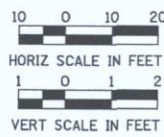
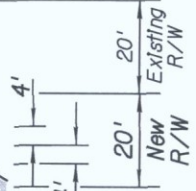
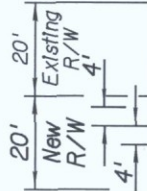
URS 7720 N. 16th Street, Suite 100
Phoenix, AZ 85020
(602) 371-1100

REMOVAL & RELOCATION NOTES

Description	Unit	Quan
1 Clearing & Grubbing	AC	0.2

CONSTRUCTION NOTES

Description	Unit	Quan
1 Decomposed Granite (Stabilized)	SY	356
3 Non Slip Treatment (Path Treatment)	SF	218
5 Install Sign, Trail Marker Sign, COS 2683	EA	2
13 Install Sign, Trail Crossing Sign, COS 2683	EA	1



ARIZONA BLUE STAKE
CALL TWO WORKING DAYS BEFORE YOU DIG
Dial 811 or 602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

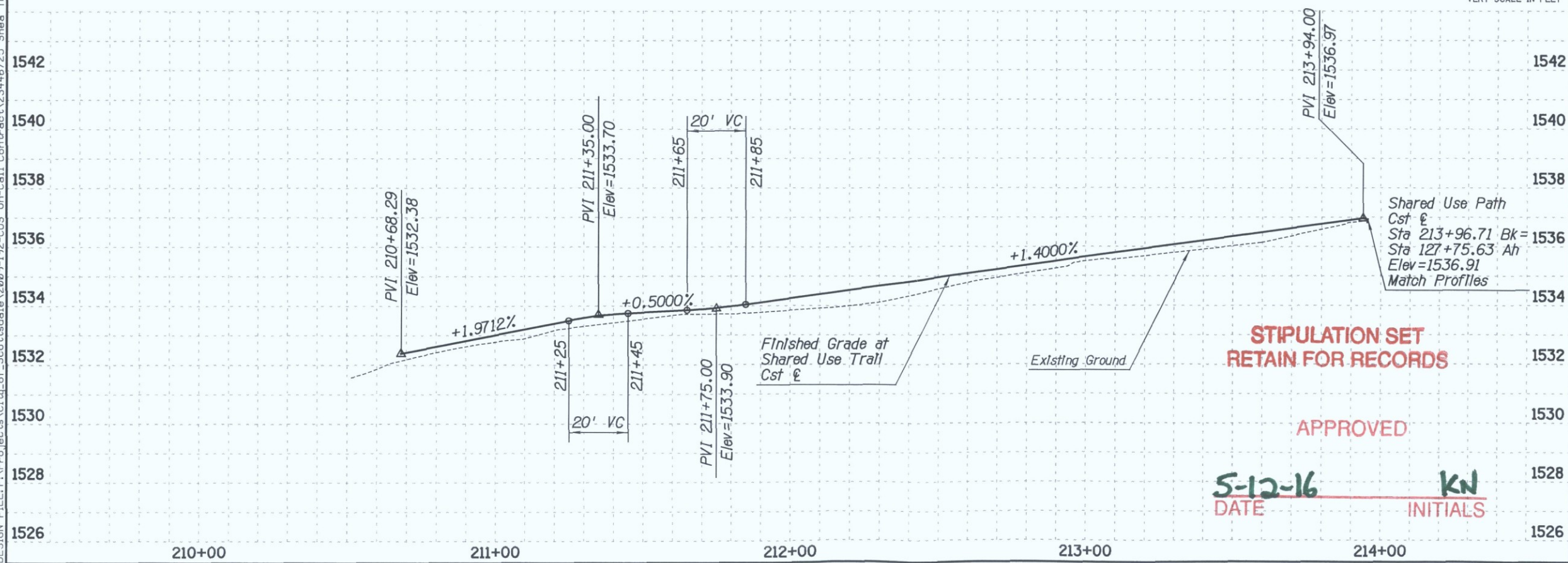
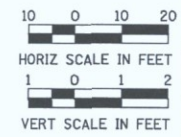
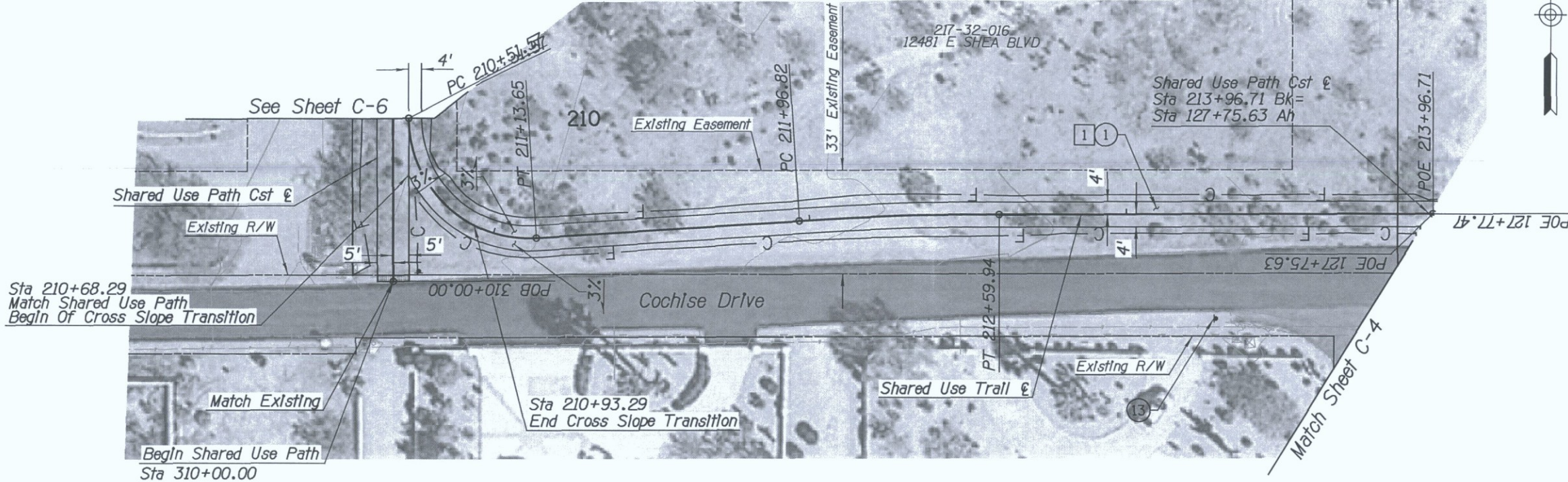
DATE	REVISION	BY
PUBLIC WORKS		
CAPITAL PROJECT MANAGEMENT		
Expires 12/31/2018		
SHEET TITLE SHARED USE TRAIL PLAN & PROFILE		
PROJECT TITLE SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	BID NO.
HORIZ. 1"=20'	EE	6/15
VERT. 1"=2'	BP	AS-BUILT
PROJECT NO.		DWG.
16BP020		C-4
19 of 105		

XXX-XX

11:16:51 AM

PLOT DATE: 1/16/2016

DESIGN FILE: P:\Projects\City_of_Scottsdale\2009-192-COS On-Call Contract\23446725 Shea Tunnel Access\CADD\Plans\23446725_S21610_p5.dgn



5-12-16
DATE

KN
INITIALS

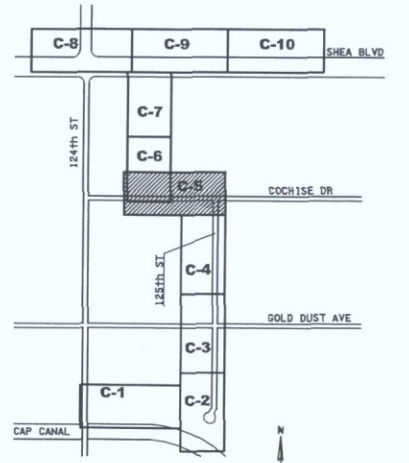
URS 7720 N. 16th Street, Suite 100
Phoenix, AZ 85020
(602) 371-1100

REMOVAL & RELOCATION NOTES

Description	Unit	Quan
1 Clearing & Grubbing	AC	0.2

CONSTRUCTION NOTES

Description	Unit	Quan
1 Decomposed Granite (Stabilized)	SY	303
13 Install Sign, Trail Crossing Sign, COS 2683	EA	1



ARIZONA BLUE STAKE
CALL TWO WORKING DAYS BEFORE YOU DIG
Dial 811 OR 602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
Expires 12/31/2018 SHEET TITLE SHARED USE TRAIL PLAN & PROFILE		
PROJECT TITLE SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	EE	6/15
VERT. 1"=2'	DRAWN	AS-BUILT
	BP	
	BID NO.	DWG.
	16BP020	C-5
	PROJECT NO.	20 of 105

XXX-XX

DESIGN FILE: P:\Projects\City_of_Scottsdale\2009-192-COS On-Call Contract\23446725 Shea Tunnel Access\CADD\Plans\2161610_p6.dgn PLOT DATE: 1/16/2016 11:16:52 AM

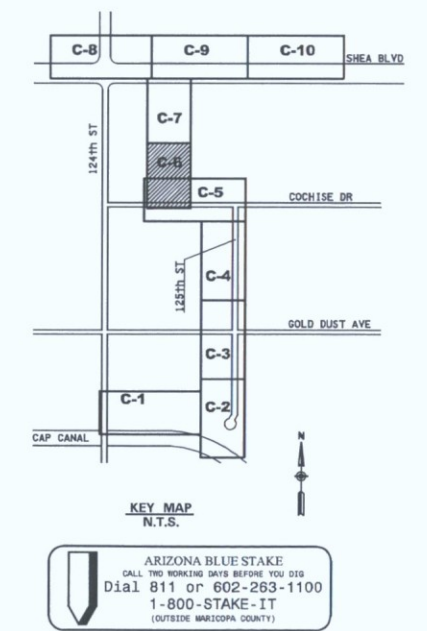
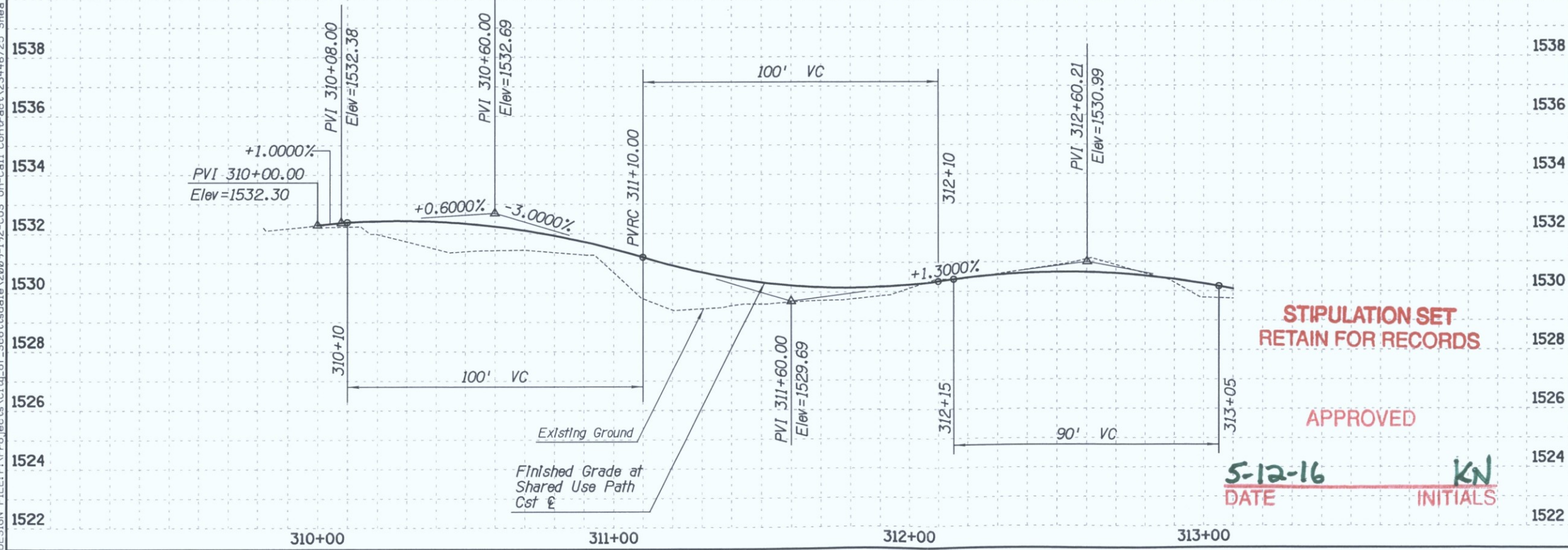
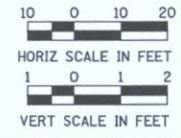
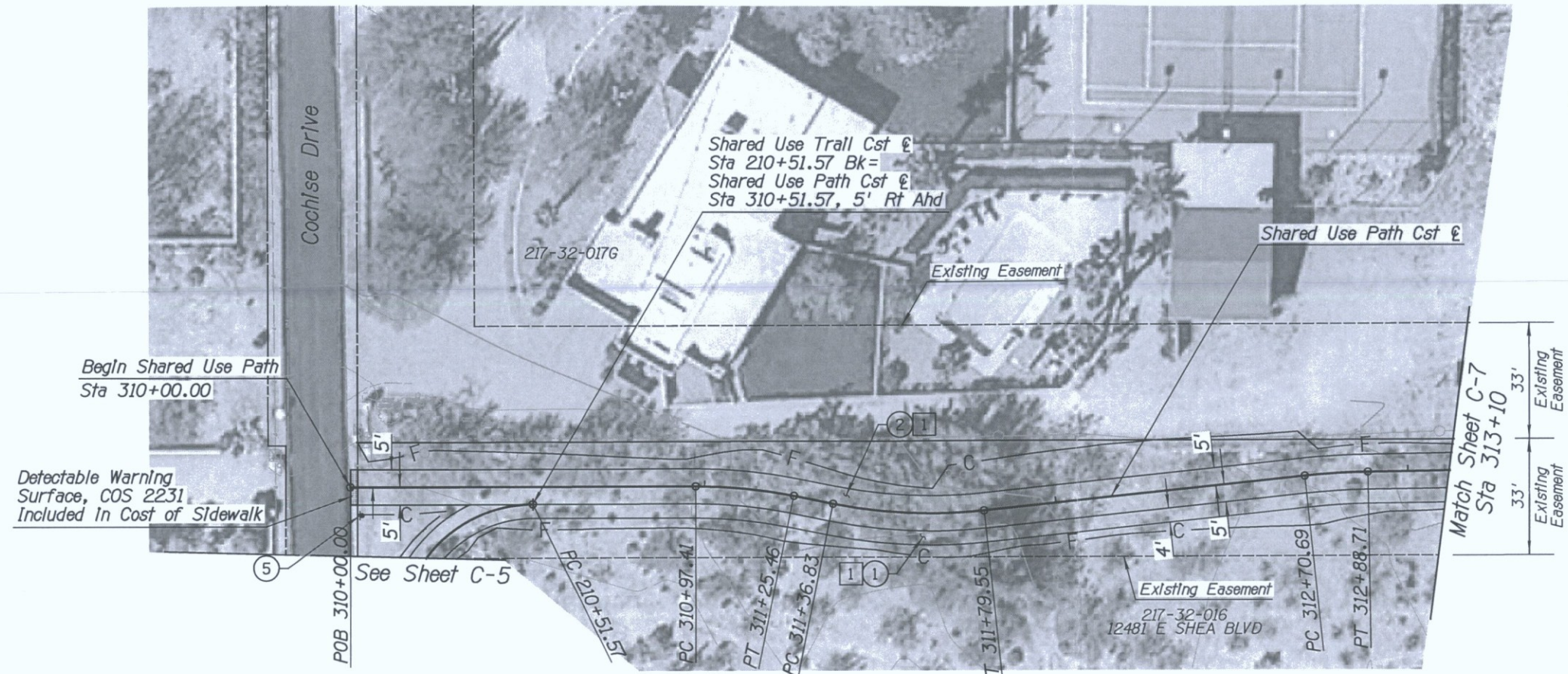
URS 7720 N. 16th Street, Suite 100
Phoenix, AZ 85020
(602) 371-1100

REMOVAL & RELOCATION NOTES

Description	Unit	Quan
1 Clearing & Grubbing	AC	0.5

CONSTRUCTION NOTES

Description	Unit	Quan
1 Decomposed Granite (Stabilized)	SY	115
2 Concrete Sidewalk, MAG 230 (5" Thick)	SF	3,100
5 Install Sign, Trail Marker Sign, COS 2683	EA	1

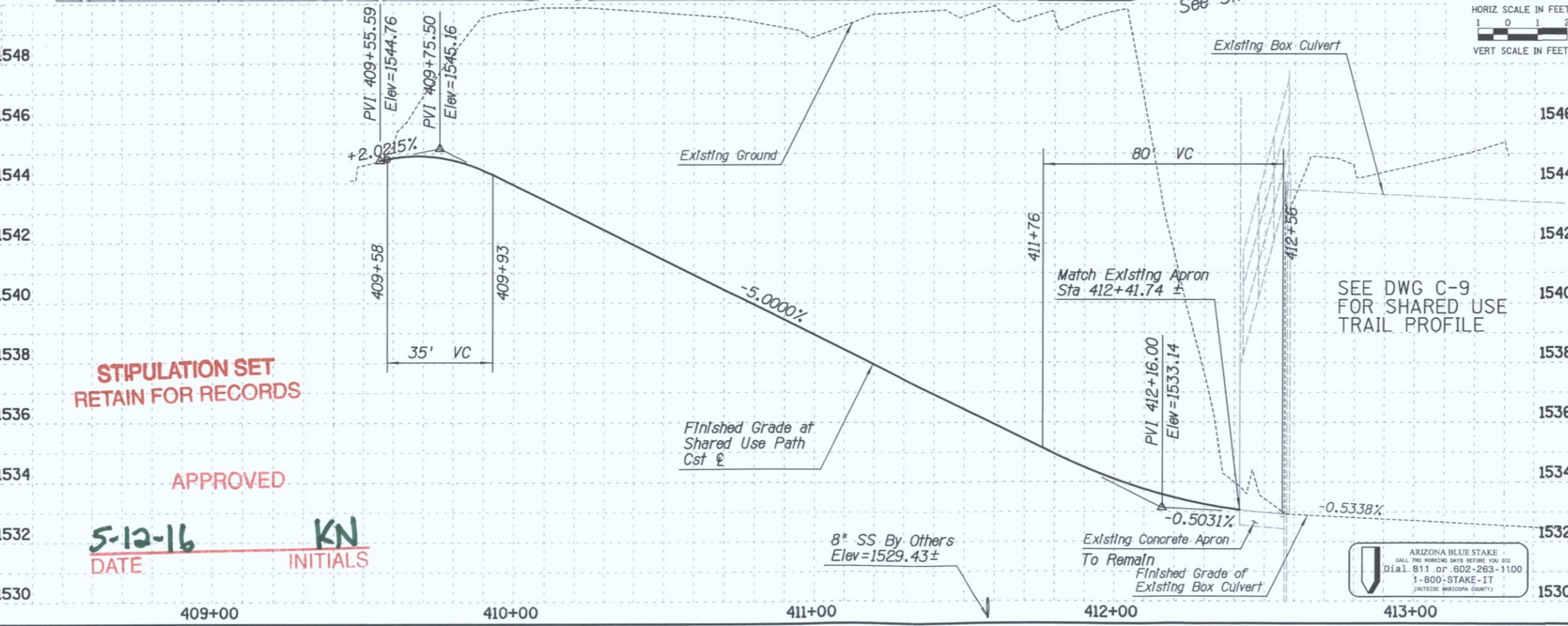
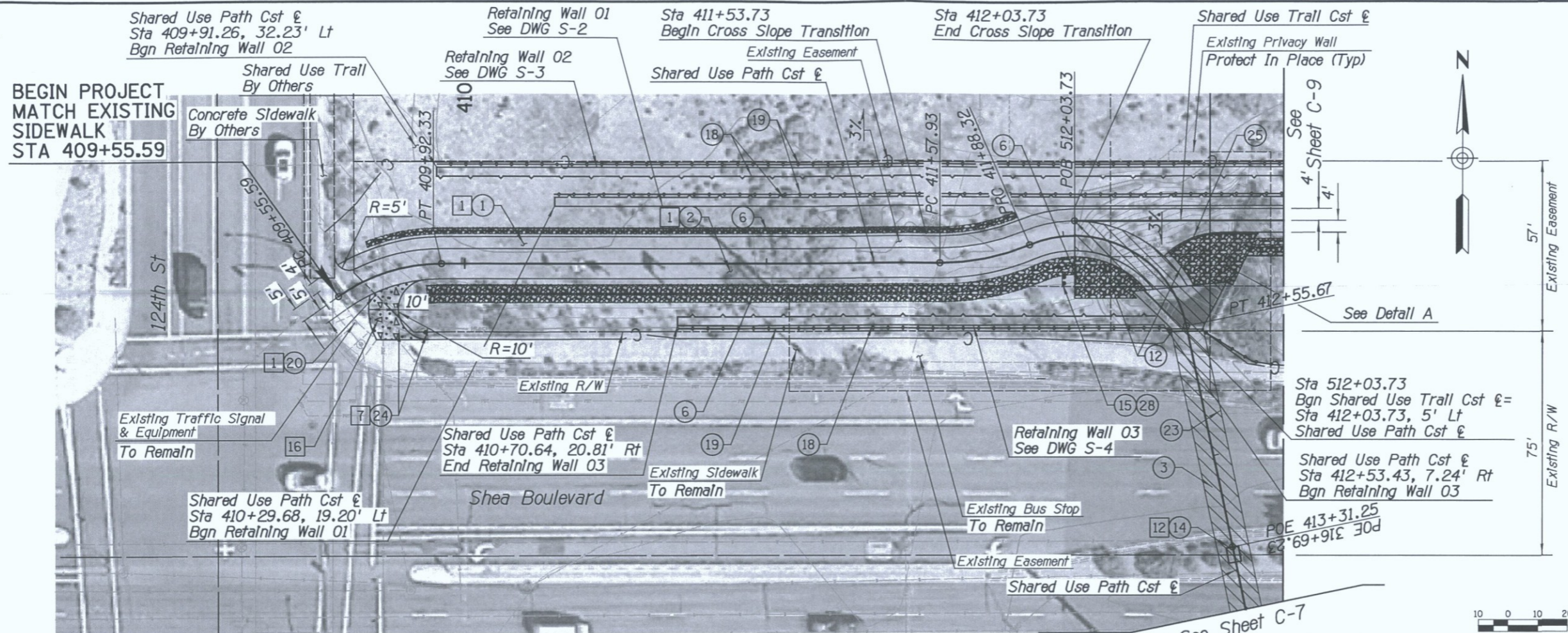


DATE	REVISION	BY
ENGINEER	PUBLIC WORKS	
CAPITAL PROJECT MANAGEMENT		
7447 E. INDIAN SCHOOL RD., SCOTTSDALE, ARIZONA 85251		
Expires 12/31/2018		
SHEET TITLE		
SHARED USE PATH PLAN & PROFILE		
PROJECT TITLE		
SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	EE	6/15
VERT. 1"=2'	BP	AS-BUILT
BID NO.	DWG.	
16BP020	C-6	
PROJECT NO.	21 OF 105	

5-12-16 DATE KN INITIALS

XXX-XX

DESIGN FILE: P:\Projects\City of Scottsdale\2009-192-COS On-Call Contract\23446725 Shea Tunnel Access\CADD\Plans\21610_p8.dgn
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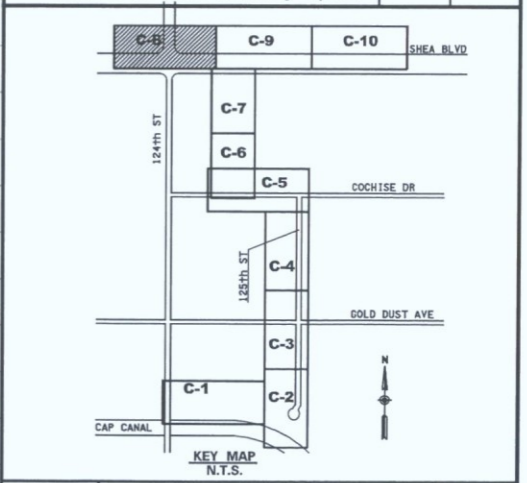
URS 7720 N. 16th Street, Suite 100
 Phoenix, AZ 85020
 (602) 371-1100

REMOVAL & RELOCATION NOTES

Description	Unit	Quan
1 Clearing & Grubbing	AC	0.3
7 Remove Sign, Post & Post Base	EA	1
12 Remove Structural Concrete, Lightwell, See S-6	CY	6
16 Frame & Cover Grade Adjustment, COS 2270	EA	1

CONSTRUCTION NOTES

Description	Unit	Quan
1 Decomposed Granite (Stabilized)	SY	108
2 Concrete Sidewalk, MAG 230 (5" Thick)	SF	2,918
3 Non Slip Treatment (Path Treatment)	SF	1,421
6 Dumped Riprap (D50=6"), See Detail A	CY	73
12 MAG 220-1 Ribbon Curb (Type B), See Detail A	LF	41
14 Lightwell See DWG S-6 & S-7	EA	1
15 Install Sign, W08-103 Do Not Enter When Flooded	EA	1
18 Retaining Wall (Gablon)	CY	1,093
19 Steel Rail Fence COS Detail 2682	LF	546
20 Exposed Aggregate Sidewalk	SF	194
23 Storm Drain Outlet Barrier Gate (ADOT C-13.75), ID=30" Install Over Exst 24" SD Outlet	EA	1
24 Install Sign, W11-7 Equestrian	EA	1
25 Single Curb MAG 222 Type B, Modified, See Detail A	LF	35
28 Install Sign, W1-1a Turn & 10 MPH Advisory Speed	EA	1



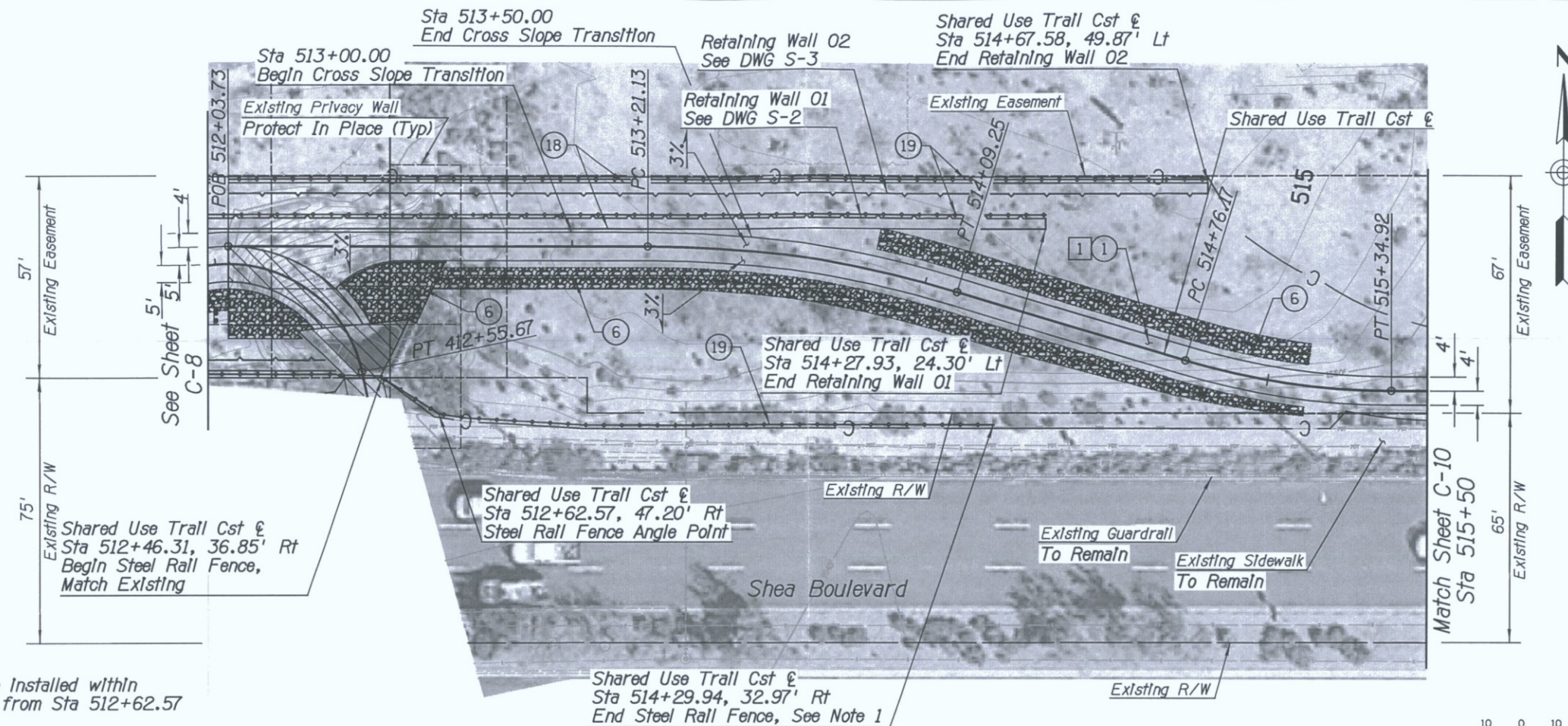
DATE	REVISION	BY
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
Expires 12/31/2018 SHEET TITLE SHARED USE PATH PLAN & PROFILE		
PROJECT TITLE SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	EE	6/15
VERT. 1"=2'	DRAWN	AS-BUILT
	BP	
		BID NO. 16BP020
		PROJECT NO. C-8
		DWG. 23 OF 105

XXX-XX

11:16:57 AM

PLOT DATE: 1/16/2016

DESIGN FILE: P:\Projects\Civil\of_Scottsdale\2009-192-COS On-Call Contr\et\23446725 Shea Tunnel Access\CAOD\Plans\521610_p9.dgn



NOTE:

- 1. Steel Rail Fence shall be installed within 12" of existing sidewalk from Sta 512+62.57 to Sta 514+29.94

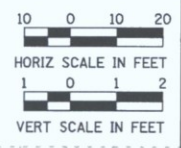
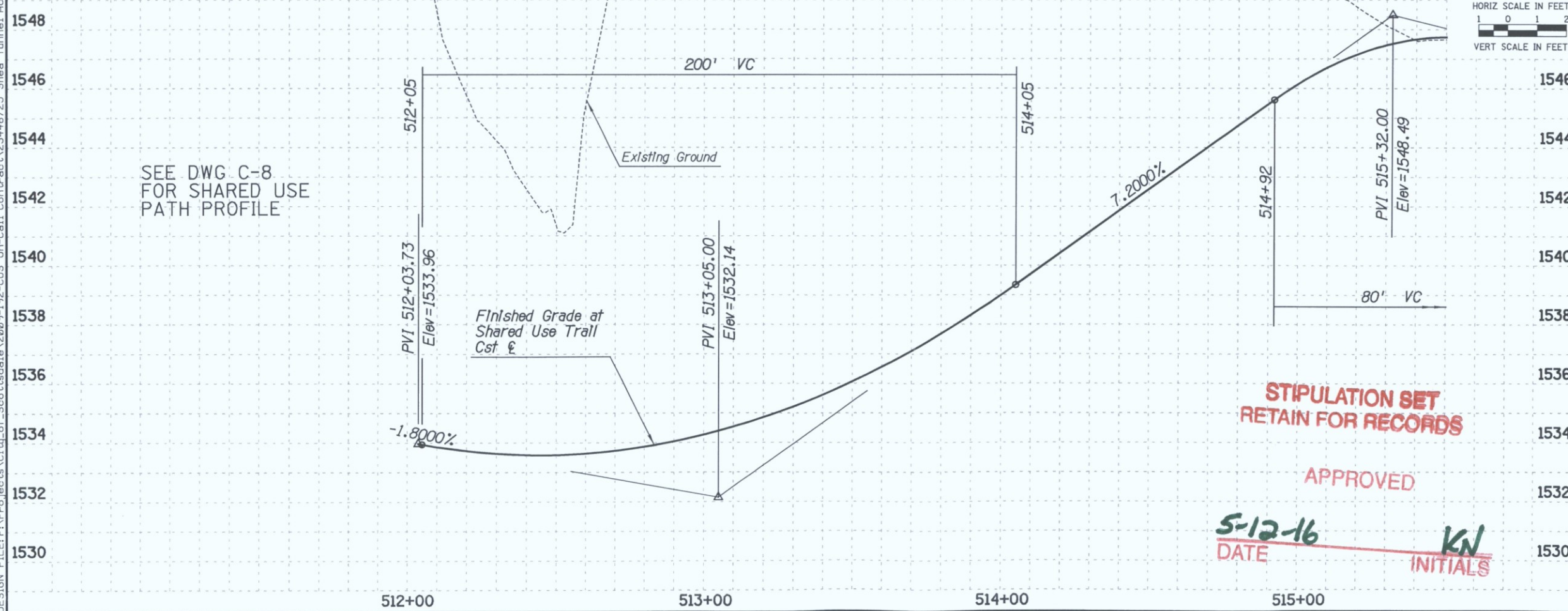
URS 7720 N. 16th Street, Suite 100
Phoenix, AZ 85020
(602) 371-1100

REMOVAL & RELOCATION NOTES

Description	Unit	Quan
1 Clearing & Grubbing	AC	0.5

CONSTRUCTION NOTES

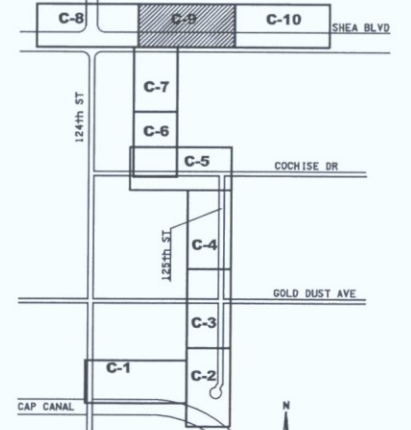
Description	Unit	Quan
1 Decomposed Granite (Stabilized)	SY	312
6 Dumped Riprap (D50=6") See Detail A and Typical Sections	CY	90
18 Retaining Wall (Gabion)	CY	1,157
19 Steel Rail Fence COS Detail 2682	LF	679



**STIPULATION SET
RETAIN FOR RECORDS**

APPROVED

5-12-16
DATE **KN**
INITIALS



KEY MAP
N.T.S.

ARIZONA BLUE STAKE
CALL THE WORKING DAYS BEFORE YOU DIG
Dial 811 or 602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
5/15	AS-BUILT	BP

ENGINEER: **SCOTTSDALE** PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
Expires 12/31/2018

SHEET TITLE: **SHARED USE TRAIL PLAN & PROFILE**

PROJECT TITLE: **SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL**

SCALE: HORIZ. 1"=20', VERT. 1"=2'

DESIGNED: EE, DATE: 6/15, DRAWN: BP

BID NO.: 16BP020, DWG. C-9, PROJECT NO., 24 OF 105

XXX-XX

DESIGN FILE: P:\Projects\2009-192-COS On-Call Contract\23446725 Shea Tunnel Access\CADD\Plans\21610_p10.dgn
 PLOT DATE: 1/16/2016 11:16:59 AM

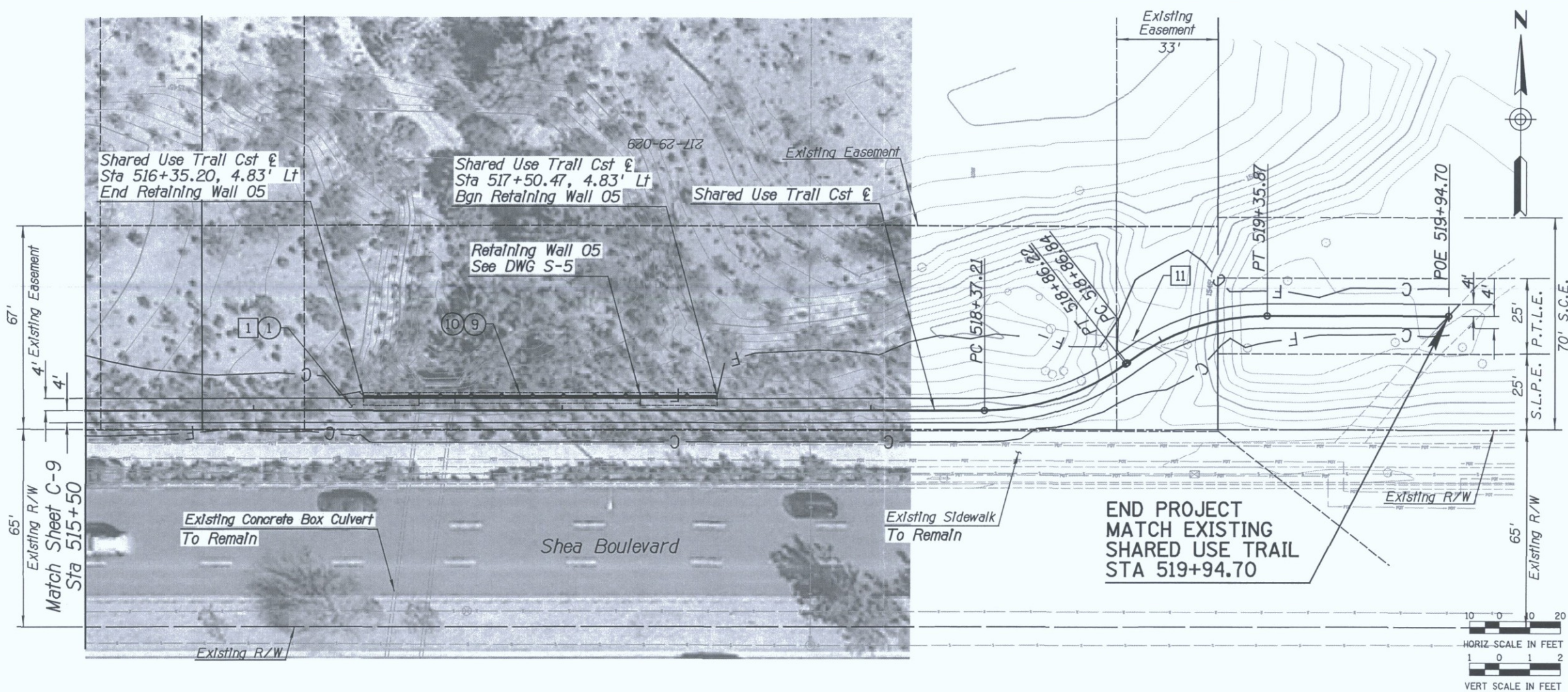
URS 7720 N. 16th Street, Suite 100
 Phoenix, AZ 85020
 (602) 371-1100

REMOVAL & RELOCATION NOTES

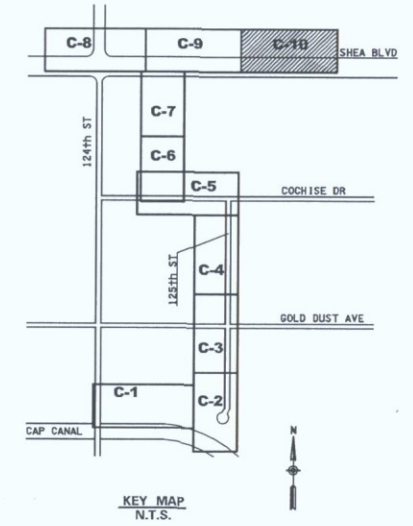
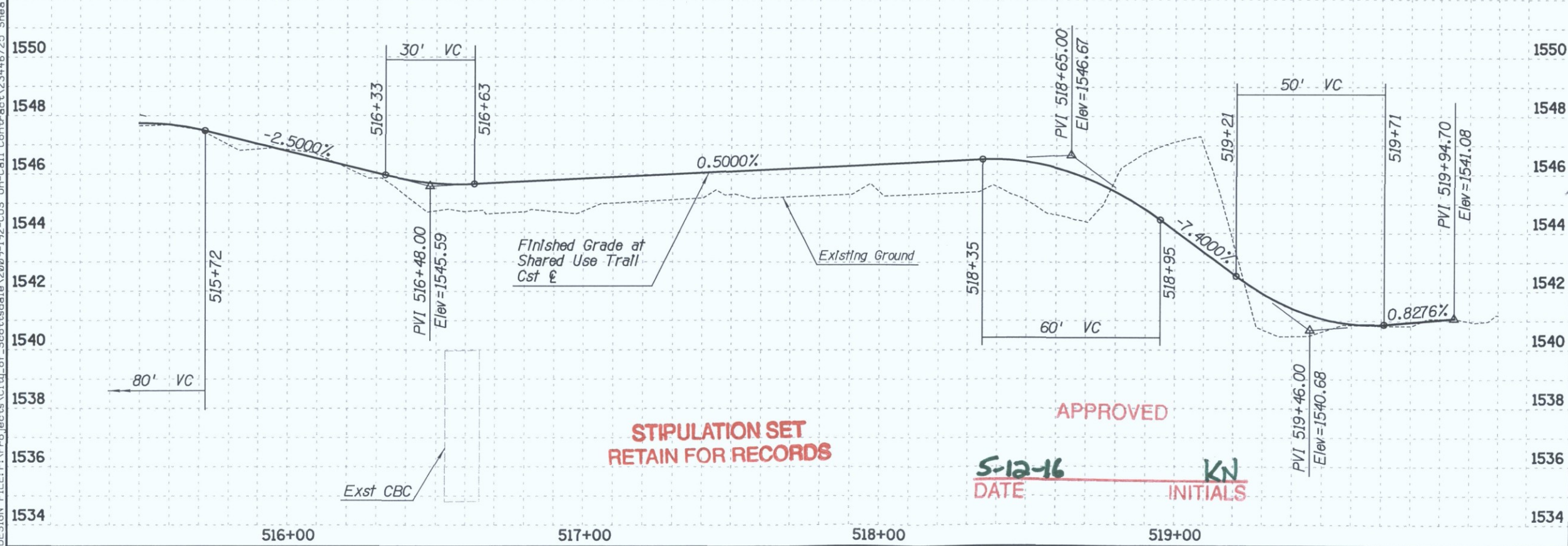
Description	Unit	Quan
1 Clearing & Grubbing	AC	0.6
11 Remove Fence	LF	76

CONSTRUCTION NOTES

Description	Unit	Quan
1 Decomposed Granite (Stabilized)	SY	395
9 Steel Handrails, COS 2508	LF	115
10 Retaining Wall (ADOT SD 7.01)	SF	569



END PROJECT MATCH EXISTING SHARED USE TRAIL STA 519+94.70



ARIZONA BLUE STAKE
 CALL TWO WORKING DAYS BEFORE YOU DIG
 Dial 811 or 602-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

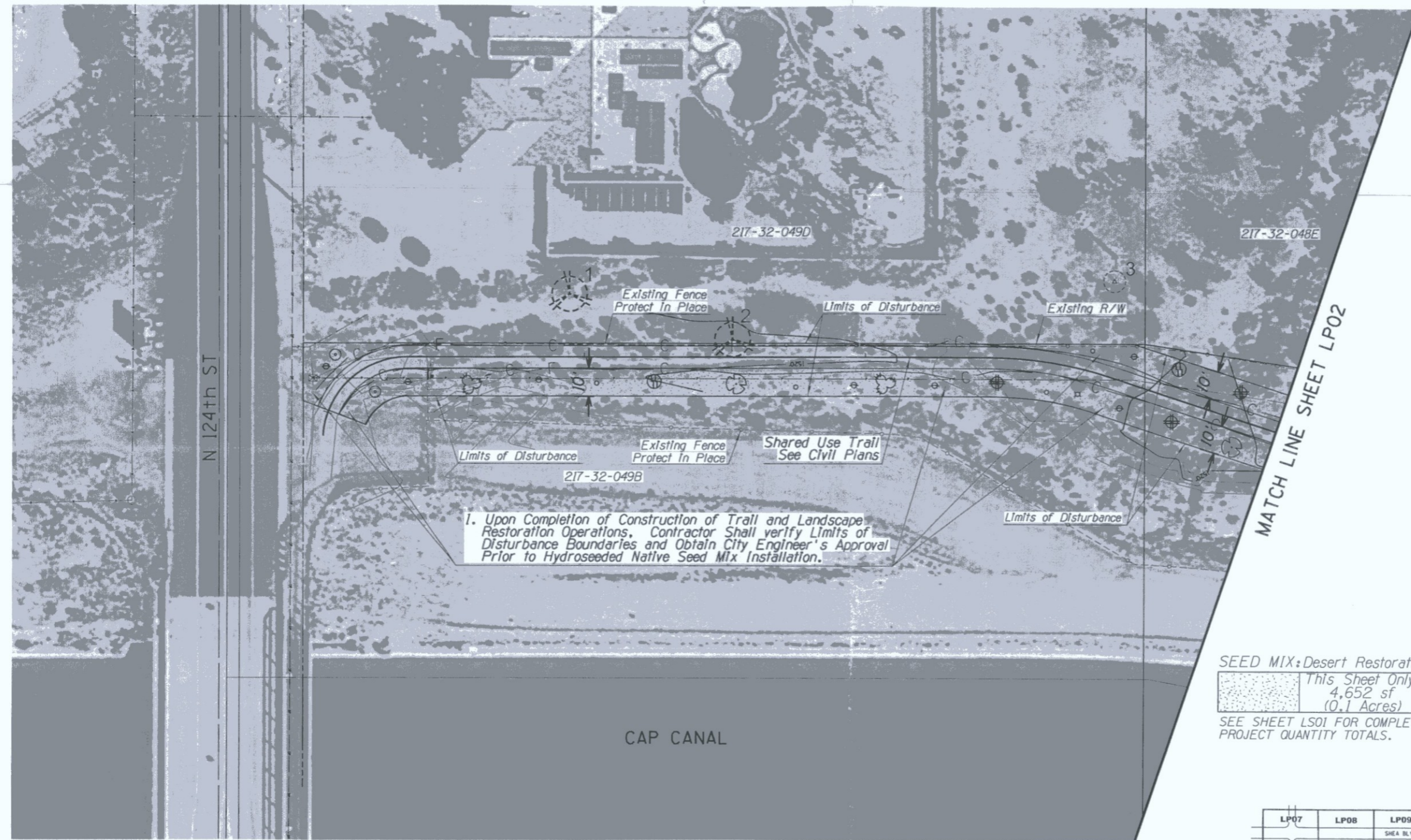
DATE	REVISION	BY
ENGINEER	PUBLIC WORKS	
CAPITAL PROJECT MANAGEMENT		
Expires 12/31/2018		
SHEET TITLE		
SHARED USE TRAIL PLAN & PROFILE		
PROJECT TITLE		
SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	EE	6/15
VERT. 1"=2'	DRAWN	AS-BUILT
	BP	
BID NO.	DWG.	
16BP020	C-10	
PROJECT NO.	25 OF 105	

APPROVED
 DATE: 5-12-16
 INITIALS: KN

XXX-XX

LANDSCAPE LEGEND
 SEE SHEET LSO1 FOR TOTAL PROJECT PLANT QUANTITIES

SYM	ABV	QTY
TREES		
	Pm	N/A
	Pv	N/A
SHRUBS		
	Ad	7
	Bm	4
	Ef	2
	Lt	2
	Sa	0
CACTI		
	Cg	0
	Ee	1
	Fw	0
	Fs	0
	Oa	2
	Oe	2
	Ov	3
SALVAGE / PROTECT IN PLACE		
	SAL	0
	SAL	0
	SAL	0
	SAL	0
	SAL	0
	SAL	0
	PIP	2
	PIP	1

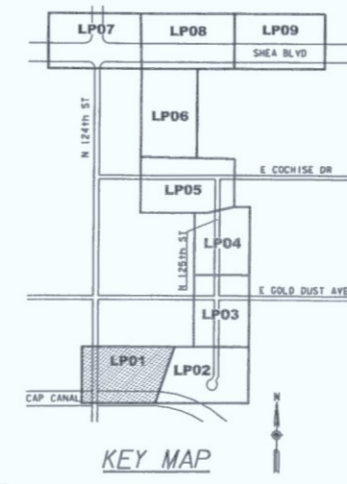


SEED MIX: Desert Restoration
 This Sheet Only:
 4,652 sf
 (0.1 Acres)
 SEE SHEET LSO1 FOR COMPLETE PROJECT QUANTITY TOTALS.

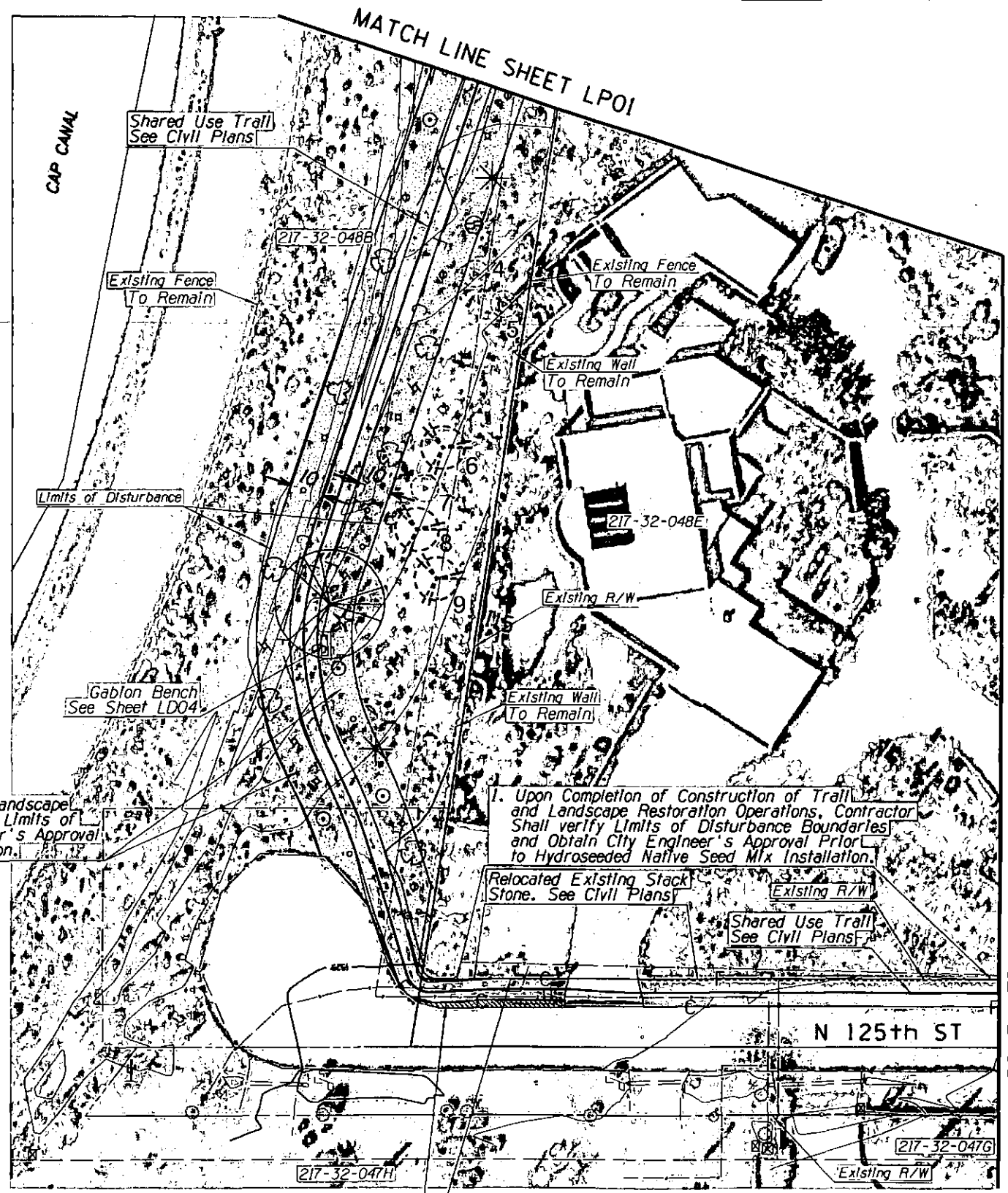
SAL = SALVAGE
 PIP = PROTECT IN PLACE
 SEE PLANT INVENTORY PLANS AND SUMMARY TABLES FOR SALVAGE AND PROTECT IN PLACE PLANT INFORMATION.

ARIZONA BLUE STAKE
 CALL TWO WORKING DAYS BEFORE YOU DIG
 Dial 811 or 602-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
LANDSCAPE PLAN SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
PROJECT NO. 16BP020		SHY. LPO1 82 OF 105



APPROVED
 STIPULATION SET
 RETAIN FOR RECORDS
 DATE: 5-12-16
 INITIALS: KN
 All sheets

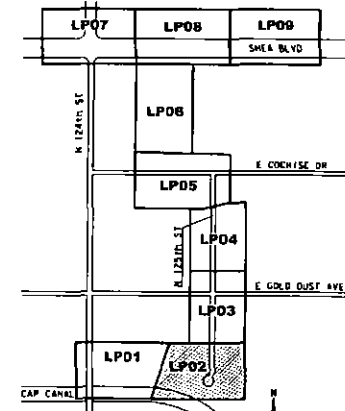
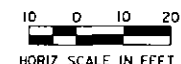


1. Upon Completion of Construction of Trail and Landscape Restoration Operations, Contractor Shall verify Limits of Disturbance Boundaries and Obtain City Engineer's Approval Prior to Hydroseeded Native Seed Mix Installation.

1. Upon Completion of Construction of Trail and Landscape Restoration Operations, Contractor Shall verify Limits of Disturbance Boundaries and Obtain City Engineer's Approval Prior to Hydroseeded Native Seed Mix Installation.

1. Upon Completion of Construction of Trail and Landscape Restoration Operations, Contractor Shall verify Limits of Disturbance Boundaries and Obtain City Engineer's Approval Prior to Hydroseeded Native Seed Mix Installation.

SEED MIX: Desert Restoration
 This Sheet Only:
 5,211sf
 0.12 Acres
 SEE SHEET LSO1 FOR COMPLETE PROJECT QUANTITY TOTALS.



LANDSCAPE LEGEND

SYM	ABV	QTY
TREES		
	Pm	0
	Pv	1
SHRUBS		
	Ad	4
	Bm	7
	Ef	4
	Lt	6
	Sa	4
CACTI		
	Cg	1
	Ee	3
	Fw	2
	Fs	2
	Oa	1
	Oe	1
	Ov	0
SALVAGE/PROTECT IN PLACE		
	SAL	0
	PIP	3

SEE SHEET LSO1 FOR TOTAL PROJECT PLANT QUANTITIES

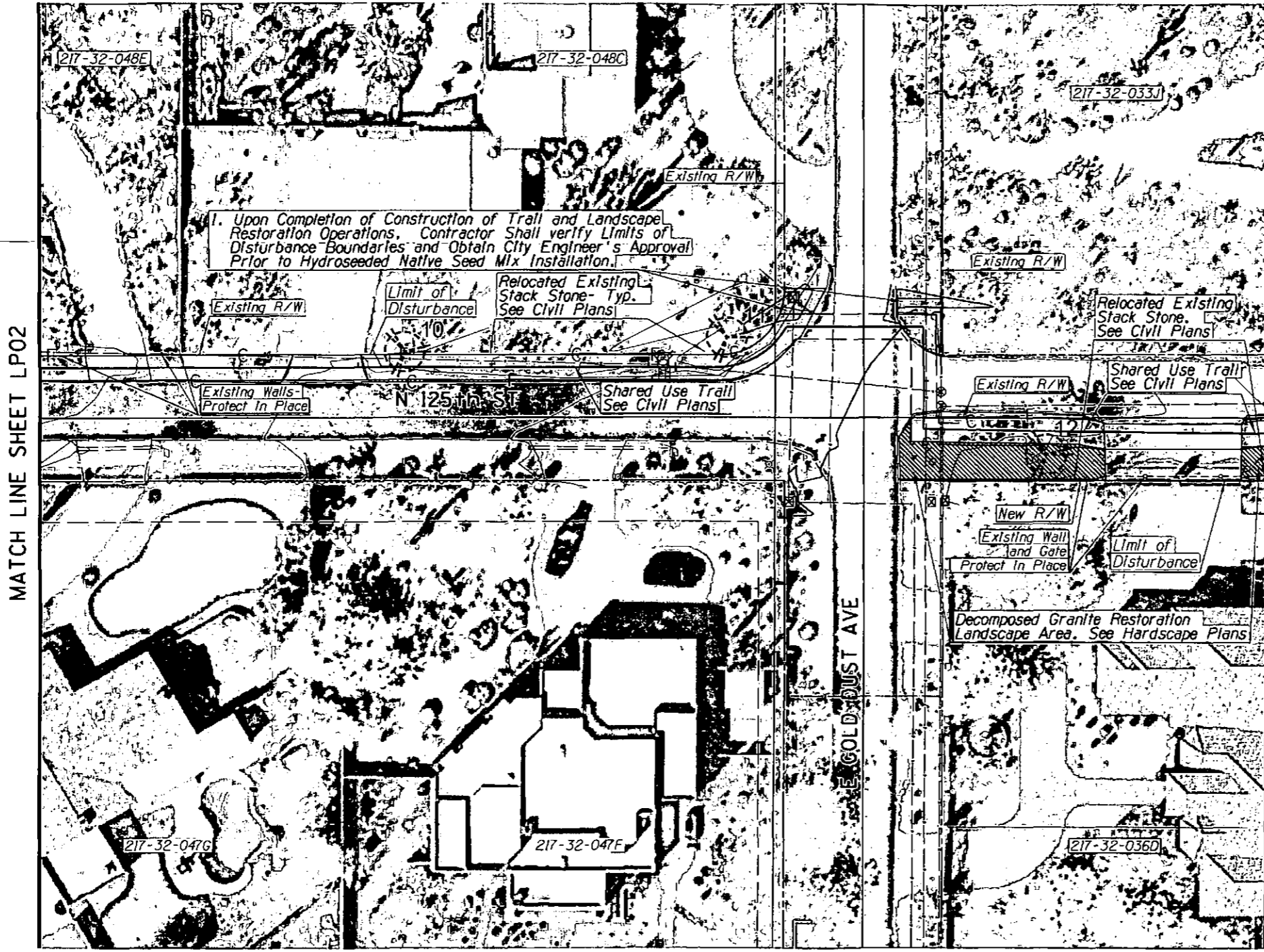
SAL=SALVAGE
 PIP=PROTECT IN PLACE

SEE PLANT INVENTORY PLANS AND SUMMARY TABLES FOR SALVAGE AND PROTECT IN PLACE PLANT INFORMATION.

ARIZONA BLUE STAKE
 CALL TWO WEEKS BEFORE YOU DIG
 Dial 811 or 602-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE		
LANDSCAPE PLAN		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
BID NO.	SHT.	
16BP020	LP02	
PROJECT NO.	83 OF 105	

XXX-XX



MATCH LINE SHEET LP02

MATCH LINE SHEET LP04

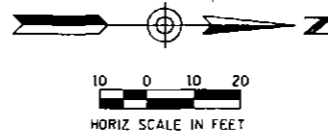
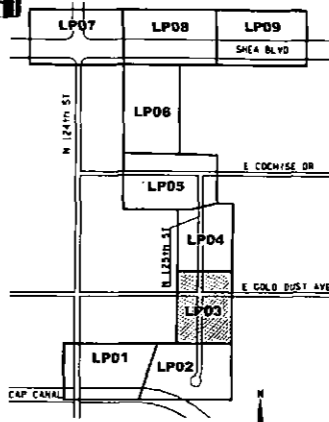
LANDSCAPE LEGEND

SYM	ABV	QTY
TREES		
	Pm	0
	Pv	0
SHRUBS		
	Ad	0
	Bm	0
	Ef	0
	Lt	0
	Sa	0
CACTI		
	Cg	0
	Ee	0
	Fw	0
	Fs	0
	Oa	0
	Oe	0
	Ov	0
SALVAGE / PROTECT IN PLACE		
	SAL	0
	SAL	0
	SAL	0
	SAL	0
	SAL	0
	PIP	3
	PIP	0

SEE SHEET LSOI FOR TOTAL PROJECT PLANT QUANTITIES

SAL = SALVAGE
 PIP = PROTECT IN PLACE
 SEE PLANT INVENTORY PLANS AND SUMMARY TABLES FOR SALVAGE AND PROTECT IN PLACE PLANT INFORMATION.

SEED MIX: Desert Restoration
 This Sheet Only:
 186sf
 0.01 Acres
 SEE SHEET LSOI FOR COMPLETE PROJECT QUANTITY TOTALS.



ARIZONA BLUE STAKE
 CALL FOR SCHEDULING BEFORE YOU BID
 Dial 811 or 602-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
PUBLIC WORKS		
CAPITAL PROJECT MANAGEMENT		
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
LANDSCAPE PLAN		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRN J2	AS-BUILT
SHEET		SHT.
16BP020		LP03
PROJECT NO.		84 OF 105

XXX-XX



MATCH LINE SHEET LP03

MATCH LINE SHEET LP05

1. Upon Completion of Construction of Trail and Landscape Restoration Operations, Contractor Shall verify Limits of Disturbance Boundaries and Obtain City Engineer's Approval Prior to Hydroseeded Native Seed Mix Installation.

Relocated Existing Stack Stone. See Civil Plans

Decomposed Granite Restoration Landscape Area. See Hardscape Plans

Limit of Disturbance

Shared Use Trail. See Civil Plans

SEED MIX: Desert Restoration
 This Sheet Only:
 3,028sf
 0.07 Acres
 SEE SHEET LSO1 FOR COMPLETE PROJECT QUANTITY TOTALS.

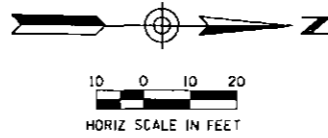
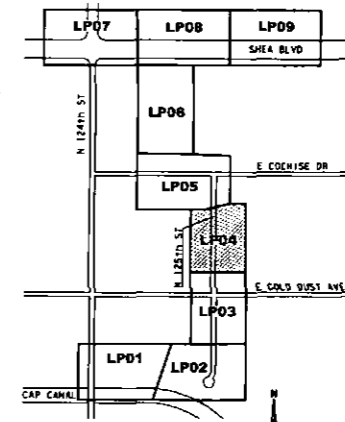
LANDSCAPE LEGEND

SYM	ABV	QTY
TREES		
	Pm	0
	Pv	0
SHRUBS		
	Ad	0
	Bm	0
	Ef	0
	Lt	0
	Sa	0
CACTI		
	Cg	0
	Ee	0
	Fw	0
	Fs	0
	Oa	0
	Oe	0
	Ov	0
SALVAGE / PROTECT IN PLACE		
	SAL	1
	SAL	0
	SAL	0
	SAL	0
	SAL	0
	PIP	4
	PIP	0

SEE SHEET LSO1 FOR TOTAL PROJECT PLANT QUANTITIES

SAL = SALVAGE
 PIP = PROTECT IN PLACE

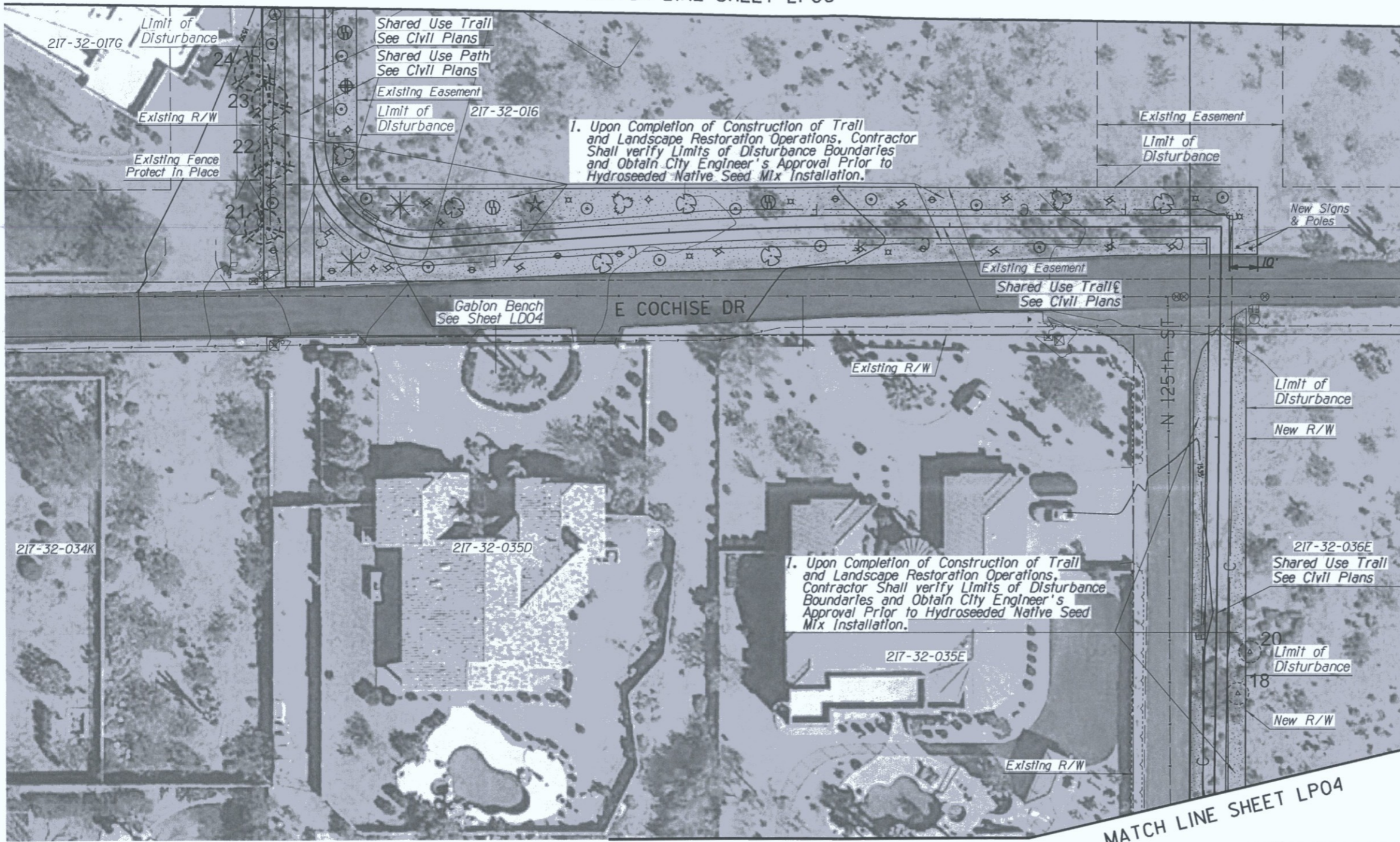
SEE PLANT INVENTORY PLANS AND SUMMARY TABLES FOR SALVAGE AND PROTECT IN PLACE PLANT INFORMATION.



ARIZONA BLUE STAKE
 CALL THE NEAREST STAKE BEFORE YOU DIG
 Dial 811 or 602-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
ENGINEER		
PUBLIC WORKS		
CAPITAL PROJECT MANAGEMENT		
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
LANDSCAPE PLAN		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
SHEET NO. 168P020		SHT. LP04
PROJECT NO.		85 OF 105

MATCH LINE SHEET LP06



J2 engineering and environmental design
 4649 east cotton gln loop, suite B2
 phoenix, arizona 85040
 phone: 602.438.2221
 www.j2design.us

LANDSCAPE LEGEND

SYM	ABV	QTY
TREES		
	Pm	0
	Pv	0
SHRUBS		
	Ad	9
	Bm	0
	Ef	15
	Lt	5
	Sa	14
CACTI		
	Cg	1
	Ee	6
	Fw	4
	Fs	2
	Oa	3
	Oe	3
	Ov	1
SALVAGE/ PROTECT IN PLACE		
	SAL	0
	SAL	0
	SAL	0
	SAL	0
	SAL	0
	PIP	4
	PIP	2

SEE SHEET LS01 FOR TOTAL PROJECT PLANT QUANTITIES

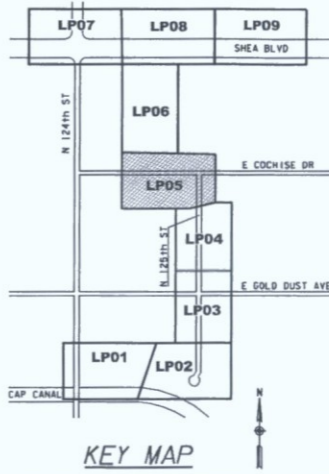
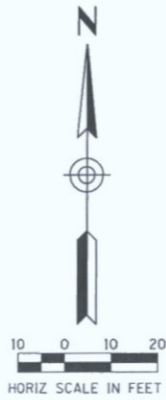
SAL = SALVAGE
 PIP = PROTECT IN PLACE

SEE PLANT INVENTORY PLANS AND SUMMARY TABLES FOR SALVAGE AND PROTECT IN PLACE PLANT INFORMATION.

ARIZONA BLUE STAKE
 CALL TWO WORKING DAYS BEFORE YOU DIG
 Dial 811 or 602-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

SEED MIX: Desert Restoration
 This Sheet Only:
 10,229sf
 0.23 Acres
 SEE SHEET LS01 FOR COMPLETE PROJECT QUANTITY TOTALS.

MATCH LINE SHEET LP04



DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
LANDSCAPE PLAN		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
BID NO.	PROJECT NO.	SHT.
16BP020		LP05
		86 OF 105

XXX-XX

LANDSCAPE LEGEND

SYM	ABV	QTY
TREES		
	Pm	0
	Pv	0
SHRUBS		
	Ad	7
	Bm	0
	Ef	10
	Lt	8
	Sa	12
CACTI		
	Cg	1
	Ee	3
	Fw	1
	Fs	2
	Oa	2
	Oe	0
	Ov	5
SALVAGE/PROTECT IN PLACE		
	SAL	0
	SAL	0
	SAL	0
	SAL	0
	SAL	0
	PIP	18
	PIP	2

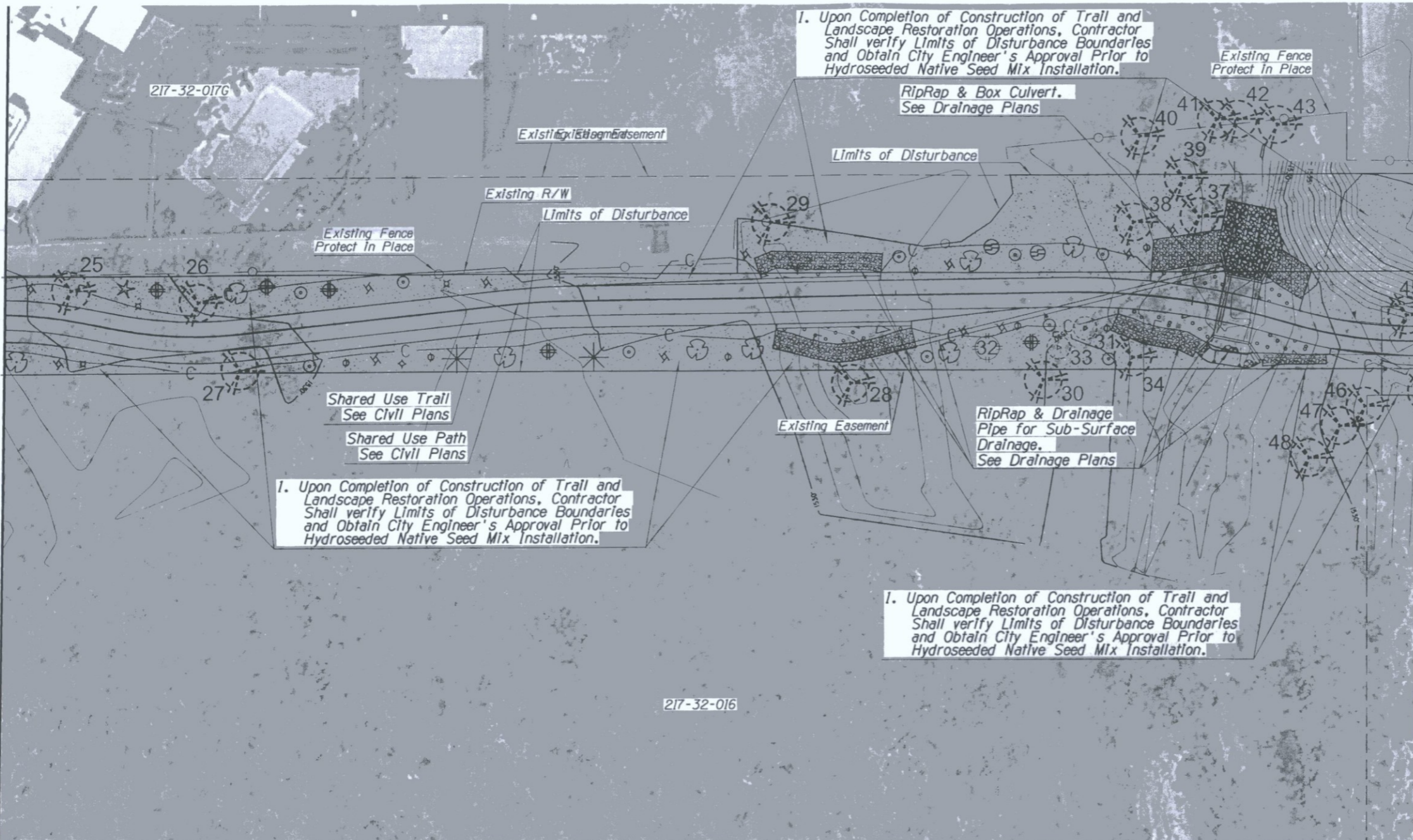
SEE SHEET LSO1 FOR TOTAL PROJECT PLANT QUANTITIES

SAL = SALVAGE
 PIP = PROTECT IN PLACE

SEE PLANT INVENTORY PLANS AND SUMMARY TABLES FOR SALVAGE AND PROTECT IN PLACE PLANT INFORMATION.

ARIZONA BLUE STAKE
 CALL TWO WORKING DAYS BEFORE YOU DIG
 Dial 811 or 802-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
PUBLIC WORKS		
CAPITAL PROJECT MANAGEMENT		
7447 E. INDIAN SCHOOL RD., SCOTTSDALE, ARIZONA 85251		
LANDSCAPE PLAN		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	J2	AS-BUILT
SHEET NO. 16BP020		SHT. LP06
PROJECT NO.		87 OF 105

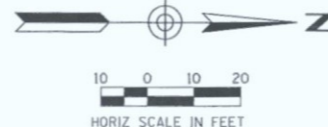
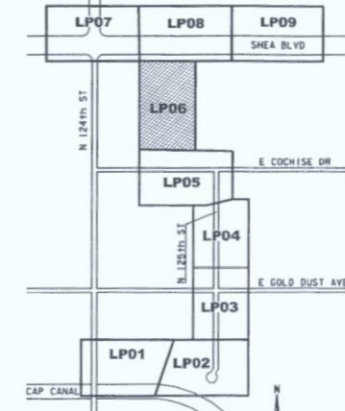


1. Upon Completion of Construction of Trail and Landscape Restoration Operations, Contractor Shall verify Limits of Disturbance Boundaries and Obtain City Engineer's Approval Prior to Hydroseeded Native Seed Mix Installation.

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1. Upon Completion of Construction of Trail and Landscape Restoration Operations, Contractor Shall verify Limits of Disturbance Boundaries and Obtain City Engineer's Approval Prior to Hydroseeded Native Seed Mix Installation.

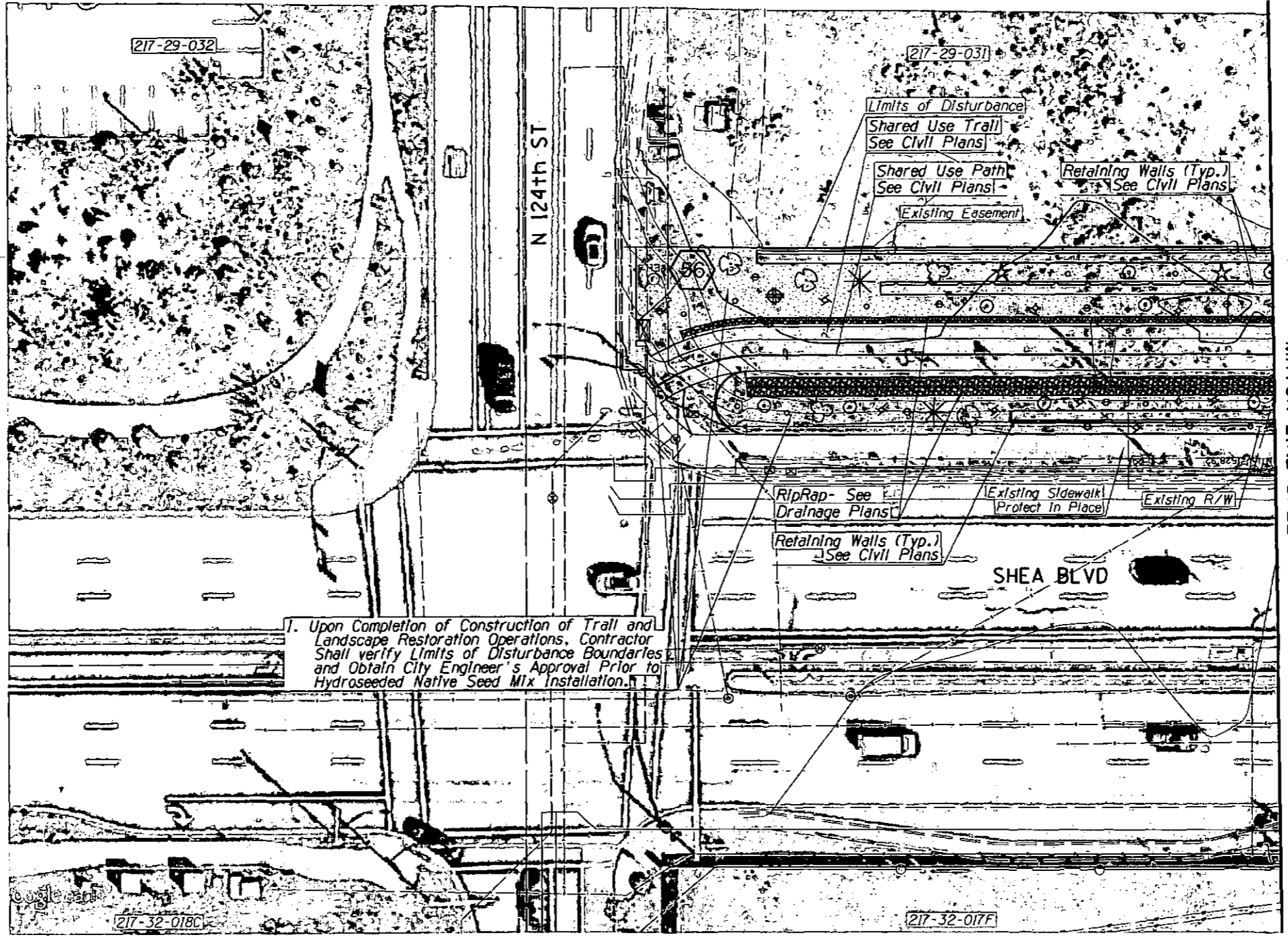
SEED MIX: Desert Restoration
 This Sheet Only:
 12,667sf
 0.3 Acres
 SEE SHEET LSO1 FOR COMPLETE PROJECT QUANTITY TOTALS.



MATCH LINE SHEET LP05

MATCH LINE SHEET LP08

XXX-XX



MATCH LINE SHEET LP08

LANDSCAPE LEGEND

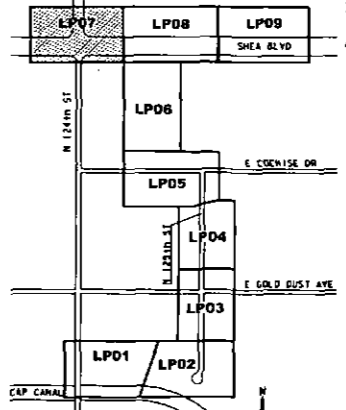
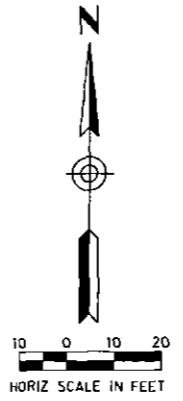
SYM	ABV	QTY
TREES		
	Pm	0
	Pv	0
SHRUBS		
	Ad	8
	Bm	9
	Ef	8
	Lt	3
	Sa	6
CACTI		
	Cg	2
	Ee	0
	Fw	3
	Fs	2
	Oa	0
	Oe	2
	Oy	1
SALVAGE / PROTECT IN PLACE		
	SAL	1
	SAL	0
	SAL	0
	SAL	0
	SAL	0
	PIP	0
	PIP	0

SEE SHEET LSO1 FOR TOTAL PROJECT PLANT QUANTITIES

SAL = SALVAGE
 PIP = PROTECT IN PLACE

SEE PLANT INVENTORY PLANS AND SUMMARY TABLES FOR SALVAGE AND PROTECT IN PLACE PLANT INFORMATION.

SEED MIX: Desert Restoration
 This Sheet Only:
 5,467sf
 (0.13 Acres)
 SEE SHEET LSO1 FOR COMPLETE PROJECT QUANTITY TOTALS.



ARIZONA BLUE STAKE
 CALL FOR WORKING DATES BEFORE YOU BID
 Dial 811 or 602-263-1100
 1-800-STAKE-11
 (SOUTHERN METROPOLITAN COUNTY)

DATE	REVISION	BY
ENGINEER	PUBLIC WORKS	
CAPITAL PROJECT MANAGEMENT		
7447 E. INDIAN SCHOOL RD., SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
LANDSCAPE PLAN		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
BID NO.	PROJECT NO.	SHT.
16BP020		LP07
88 OF 105		

XXX-XX

LANDSCAPE LEGEND

SYM	ABV	QTY
TREES		
	Pm	0
	Pv	0
SHRUBS		
	Ad	11
	Bm	14
	Ef	14
	Lt	10
	Sa	16
CACTI		
	Cg	5
	Ee	10
	Fw	2
	Fs	3
	Oa	1
	Oe	6
	Ov	5
SALVAGE/PROTECT IN PLACE		
	SAL	2
	SAL	0
	SAL	1
	SAL	1
	SAL	0
	PIP	7
	PIP	0

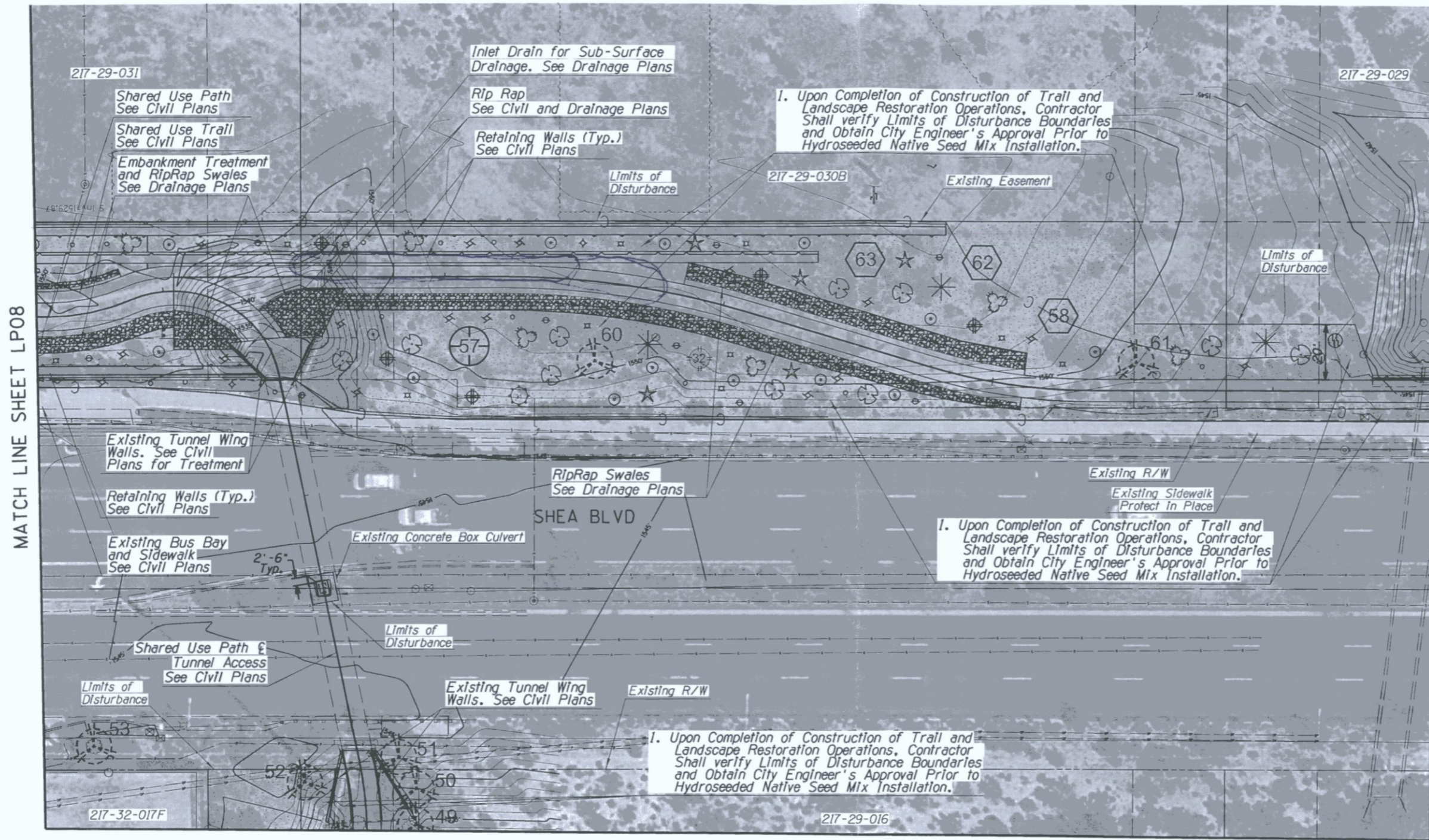
SEE SHEET LSO1 FOR TOTAL PROJECT PLANT QUANTITIES

SAL = SALVAGE
 PIP = PROTECT IN PLACE

SEE PLANT INVENTORY PLANS AND SUMMARY TABLES FOR SALVAGE AND PROTECT IN PLACE PLANT INFORMATION.

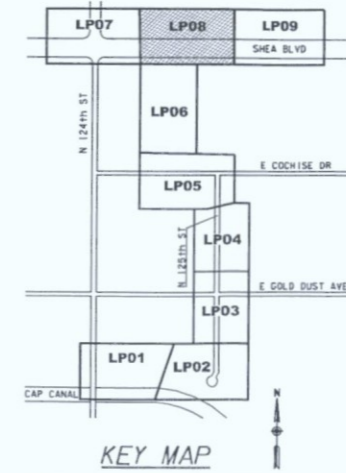
ARIZONA BLUE STAKE
 CALL TWO WORKING DAYS BEFORE YOU DIG
 Dial 811 or 802-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
ENGINEER		
PUBLIC WORKS		
CAPITAL PROJECT MANAGEMENT		
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
LANDSCAPE PLAN		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
BID NO.	SHT.	
16BP020	LP08	
PROJECT NO.		
		89 OF 105

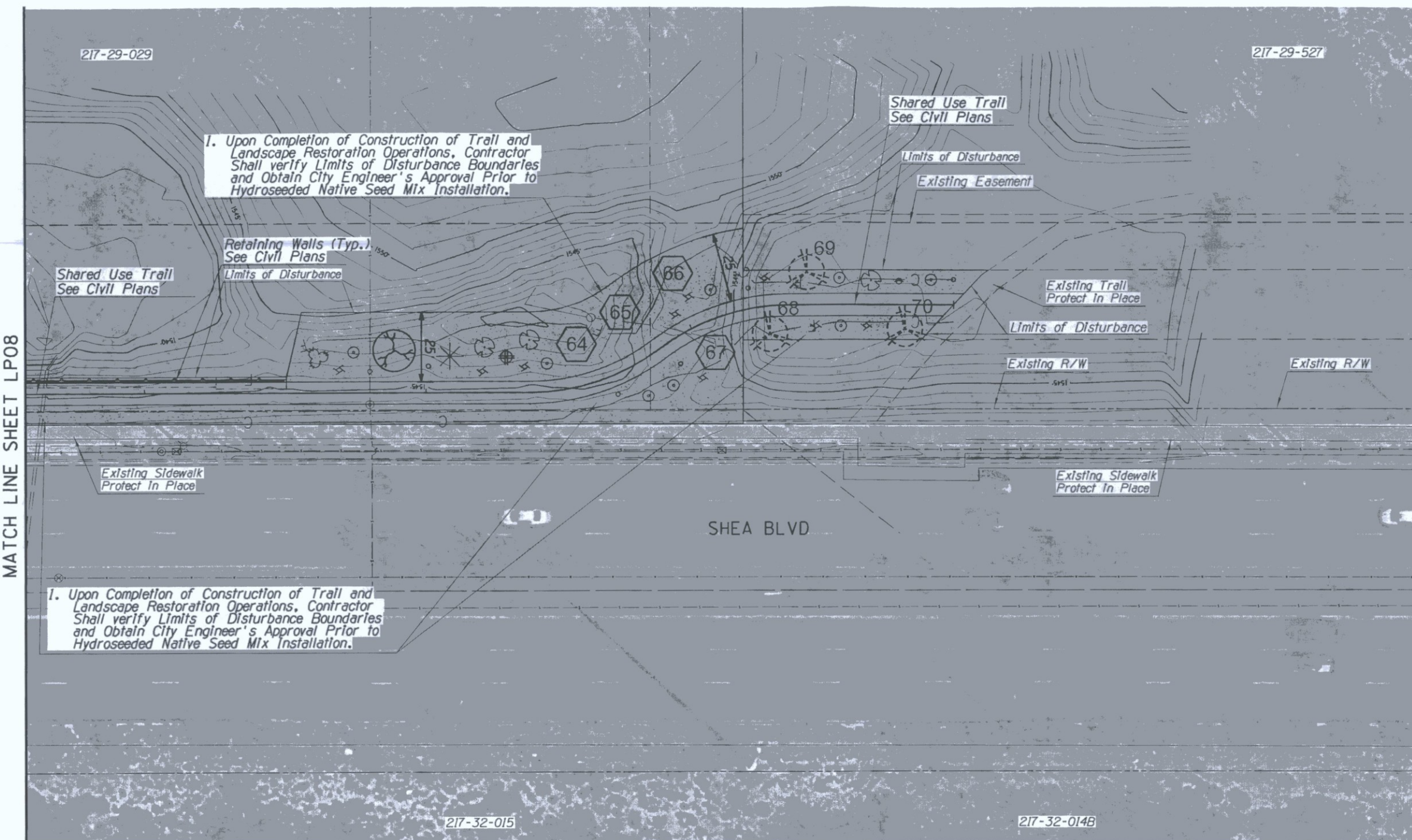


MATCH LINE SHEET LP06

SEED MIX: Desert Restoration
 This Sheet Only:
 19,684sf
 (0.45 Acres)
 SEE SHEET LSO1 FOR COMPLETE PROJECT QUANTITY TOTALS.



XXX-XX



MATCH LINE SHEET LP08

LANDSCAPE LEGEND

SEE SHEET LSO1 FOR TOTAL PROJECT PLANT QUANTITIES

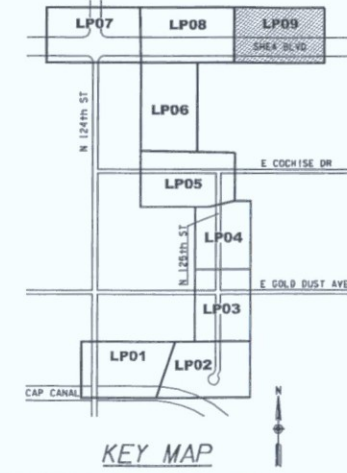
SYM	ABV	QTY
TREES		
	Pm	1
	Pv	0
SHRUBS		
	Ad	1
	Bm	6
	Ef	8
	Lt	3
	Sa	9
CACTI		
	Cg	0
	Ee	0
	Fw	0
	Fs	1
	Oa	0
	Oe	1
	Ov	1
SALVAGE / PROTECT IN PLACE		
	SAL	4
	SAL	0
	SAL	0
	SAL	0
	SAL	0
	SAL	0
	PIP	3
	PIP	0

SAL = SALVAGE
 PIP = PROTECT IN PLACE

SEE PLANT INVENTORY PLANS AND SUMMARY TABLES FOR SALVAGE AND PROTECT IN PLACE PLANT INFORMATION.

ARIZONA BLUE STAKE
 CALL TWO WORKING DAYS BEFORE YOU DIG
 Dial 811 or 602-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

SEED MIX: Desert Restoration
 This Sheet Only:
 8,207sf
 (0.2 Acres)
 SEE SHEET LSO1 FOR COMPLETE PROJECT QUANTITY TOTALS.



DATE	REVISION	BY
ENGINEER	DESIGNED	DRAWN
	RC	J2
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
LANDSCAPE PLAN		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
BID NO.	SHT.	OF
16BP020	LP09	90
PROJECT NO.	90 OF 105	

XXX-XX

HARDSCAPE LEGEND

DESCRIPTION	QTY.	MANUFACTURER	MODEL	MATERIAL	COLOR	DETAIL
Bench	2 EA.	Custom		Gablon Basket/ Rip Rap/ Integral Concrete	San Diego Buff- Davis Color #5237	See Special Provisions

LANDSCAPE LEGEND

SYM	ABV	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS	QNT
TREES:							
	Pm	Parkinsonia microphylla	Foothills Palo Verde	15 gal	As Per Plans	Standard Trunk	1
	Pv	Prosopis velutina	Velvet Mesquite	15 gal	As Per Plans	Multi-Trunk	1
SHRUBS:							
	Ad	Ambrosia deltoidea	Bursage	5 gal	As Per Plans	Container Full	47
	Bm	Balleya multiradiata	Desert Marigold	1 gal	As Per Plans	Container Full	40
	Ef	Encella farinosa	Brittlebush	5 gal	As Per Plans	Container Full	61
	Lt	Larrea tridentata	Creosote	5 gal	As Per Plans	Container Full	37
	Sa	Sphaeralcea ambigua	Globe Mallow	5 gal	As Per Plans	Container Full	61
CACTI:							
	Cg	Carnegiea gigantea	Saguaro	Spear	As Per Plans	6' Min. Ht.	10
	Ee	Echinocereus engelmannii	Hedgehog Cactus	5 gal	As Per Plans	Container Full	23
	Fw	Ferocactus wislizenii	Fishhook Barrel	5 gal	As Per Plans	18" Min. Ht.	12
	Fs	Fouquieria splendens	Ocotillo	15 gal	As Per Plans	8 Cane Min. 7' Min. Ht.	12
	Oa	Opuntia acanthocarpa	Buckhorn Cholla	5 gal	As Per Plans	Container Full	9
	Oe	Opuntia engelmannii	Engelmann's Prickly Pear	5 gal	As Per Plans	6 Pad Min.	15
	Ov	Opuntia bigelovii	Teddy-bear Cholla	5 gal	As Per Plans	18" Min. Ht.	16

SALVAGE AND PROTECT IN PLACE LEGEND *XX=Salvage & *XX=Protect In Place
See Inventory Plans & Summary Tables*

SYM	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS	QNT
	Cercidium species	Foothills Palo Verde Blue Palo Verde	Varies	As Per Plans	Salvage See Native Plant Inventory	5
	Prosopis species	Velvatina Mesquite	Varies	As Per Plans	Salvage See Native Plant Inventory	1
	Carnegiea gigantea Ferocactus acanthodes Ferocactus wislizenii	Saguaro Compass Barrel Fish-hook Barrel	Varies	As Per Plans	Salvage See Native Plant Inventory	2
	Cercidium microphyllum Olneya tesota Prosopis species	Foothills Palo Verde Ironwood Velvatina Mesquite	Varies	As Per Plans	Protect In Place See Native Plant Inventory	49
	Carnegiea gigantea Ferocactus acanthodes Ferocactus wislizenii	Saguaro Compass Barrel Fish-hook Barrel	Varies	As Per Plans	Protect In Place See Native Plant Inventory	8

LANDSCAPE GENERAL NOTES

CITY OF SCOTTSDALE LANDSCAPE NOTES

- ALL RIGHTS-OF-WAY AND ADJACENT PROPERTY AREAS DAMAGED AND RESTORED SHALL BE MAINTAINED BY THE PROPERTY OWNER ONCE FINAL ACCEPTANCE HAS BEEN ISSUED BY THE INSPECTING COS ENGINEER.
- NEW LANDSCAPING AND LANDSCAPING INDICATED TO REMAIN, WHICH IS DESTROYED, DAMAGED, OR EXPIRES DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE SIZE, KIND, AND QUANTITY PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY/LETTER OF ACCEPTANCE TO THE SATISFACTION OF THE INSPECTING ENGINEER.
- ALL LANDSCAPING SHALL BE INSTALLED PER THE MOST CURRENT VERSION OF THE COS SUPPLEMENT TO MAG SPECIFICATIONS AND DETAILS SECTION 430 AND COS DESIGN STANDARDS AND POLICY MANUAL.

LANDSCAPE PLANTING NOTES

- THE LANDSCAPE CONTRACTOR SHALL REVIEW THIS PROJECT WITH THE CITY ENGINEER PRIOR TO STARTING WORK.
- SHOULD THE LANDSCAPE CONTRACTOR HAVE ANY QUESTIONS REGARDING THESE PLANS AND SPECIFICATIONS OR SHOULD THERE BE ANY DISCREPANCIES, THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER FOR CLARIFICATION BEFORE PROCEEDING FURTHER WITH ANY OTHER WORK.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH THE UNDERGROUND UTILITIES, PIPES AND STRUCTURES. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
- THE LANDSCAPE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
- THE LANDSCAPE CONTRACTOR SHALL VERIFY AND ACCEPT ALL SITE CONDITIONS AND ROUGH GRADES PRIOR TO STARTING ANY WORK.
- ALL NEW TREES SHALL MEET THE ARIZONA NURSERY ASSOCIATION STANDARD TREE SPECIFICATIONS FOR HEIGHT, WIDTH AND CALIPER UNLESS INDICATED OTHERWISE ON THESE PLANS.
- THE CITY ENGINEER RESERVES THE RIGHT TO REFUSE ANY PLANT MATERIAL DEEMED UNACCEPTABLE UPON DELIVERY TO THE SITE. SEE SPECIFICATIONS.
- ANY AND ALL SUBSTITUTIONS SHALL BE APPROVED BY THE CITY ENGINEER.
- ALL PLANTING AREAS SHALL BE COVERED TO A MINIMUM DEPTH OF 2 INCHES WITH EITHER EXISTING DECOMPOSED GRANITE OR EXISTING DESERT PAVEMENT SURFACE MATERIALS AS PER THESE PLANS AND SPECIFICATIONS.
- EXISTING DECOMPOSED GRANITE OR EXISTING DESERT PAVEMENT SURFACE MATERIALS SHALL BE EXTENDED UNDER TREES, SHRUB AND CACTUS ENDING NO LESS THAN 2 INCHES FROM TREE TRUNKS, SHRUB AND CACTUS TRUNKS/BASES.
- LANDSCAPE CLEARANCE SHALL BE PROVIDED (3' MINIMUM DISTANCE) TO PREVENT CONFLICT WITH SIGNS, LIGHT POLES, FIRE HYDRANTS OR MEDIAN CROSSINGS.
- COORDINATE SHRUB AND TREE PLANTING INSTALLATION WITH CITY ENGINEER. FINAL LOCATION OF ALL PLANT MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
- STAKE ALL TREES WHEN PLANTED. MAINTAIN LANDSCAPING INCLUDING: WEEDING AND FERTILIZING. SEE SPECIFICATIONS.
- APPLY PRE-EMERGENT HERBICIDE AS PER THE SPECIFICATIONS TO ALL NEW PLANTING AREAS.
- THE PLANTING DESIGN MAY BE MODIFIED TO ADAPT TO WALK CONFIGURATION CHANGES AND GRADE VARIATIONS ON-SITE ONLY WITH THE CITY ENGINEERS APPROVAL.
- THE FINISH GRADE OF ALL EXISTING DECOMPOSED GRANITE OR EXISTING DESERT PAVEMENT SURFACE MATERIALS PLANTING AREAS SHALL BE 2 INCHES BELOW TOP OF CURBS AND 1 INCH BELOW TOP OF SIDEWALKS (PER COS DETAIL #2210).
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE ALL AGRONOMY AND MATERIAL TESTING AND SHALL COMPLY WITH THE TESTING LABS RECOMMENDATIONS AS PER THE SPECIFICATIONS. SUBMIT ALL TESTING REPORTS TO THE CITY ENGINEER FOR REVIEW.
- WATER TEST ALL TREE PLANTING HOLES PRIOR TO PLANTING. IF PLANTING HOLES DO NOT DRAIN AS PER THE SPECIFICATIONS, DO NOT PLANT AND CONTACT THE CITY ENGINEER TO APPROVE THE USE OF HARDPAN PLANTING PROCEDURES AND DETAILS.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR 100 PERCENT IRRIGATION COVERAGE TO ALL EXISTING, SALVAGED, PROTECT IN PLACE AND NEW PLANT MATERIAL WITHIN THE PROJECT LIMITS OF DISTURBANCE DURING CONSTRUCTION AND THROUGHOUT PLANT ESTABLISHMENT AND MAINTENANCE PERIODS.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE FINE GRADING (+0.1 FOOT) OF ALL MOUNDS AND SWALES.
- THE LANDSCAPE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON THESE PLANS.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING, MAINTAINING AND THE GUARANTEE OF ALL LANDSCAPING AS PER THE PLANS AND SPECIFICATIONS.
- SEE IRRIGATION SUPPLEMENTAL WATER DETAIL (DRI-WATER) ON LANDSCAPE DETAIL SHEET LD03 PLANS FOR A COMPLETE DRI-WATER IRRIGATION SCHEDULE.

J2 engineering and environmental design
4649 east cotton gh loop, suite B2
phoenix, arizona 85040
phone: 602.438.2221
www.j2design.com

LANDSCAPE PLAN APPROVAL		
Case #	Approved by	Date
CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE PLAN AND ALL DEVIATIONS WILL REQUIRE REAPPROVAL. THE CITY WILL NOT ISSUE A CERTIFICATE OF OCCUPANCY UNTIL INSPECTION SERVICES STAFF APPROVES THE LANDSCAPE INSTALLATION		

SEED MIX
Desert Restoration
1.6 Acres

ARIZONA BLUE STAKE
CALL 72 HOURS BEFORE THE JOB
Dial 811 or 602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
ENGINEER	23430	JEFFREY M. ENGELMANN
PUBLIC WORKS		
CAPITAL PROJECT MANAGEMENT		
T447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
LANDSCAPE NOTES & SUMMARY		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ.	RC	1/16
VERT.	DRAWN	45-BUILT
BID NO.		SHT.
16BPO20		LS01
PROJECT NO.		76 OF 105

XXX-XX

GENERAL NOTES

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL REVIEW THIS PROJECT WITH THE CITY ENGINEER PRIOR TO STARTING WORK.
2. SHOULD THE CONTRACTOR HAVE ANY QUESTIONS REGARDING THESE PLANS OR SHOULD THERE BE ANY DISCREPANCIES, THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER FOR CLARIFICATION BEFORE PROCEEDING FURTHER WITH ANY OTHER WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH THE UNDERGROUND UTILITIES, PIPES AND STRUCTURES. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
5. THE CONTRACTOR SHALL VERIFY AND ACCEPT ALL SITE CONDITIONS AND ROUGH GRADES PRIOR TO STARTING ANY WORK.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE FINE GRADING (+0.1. FOOT) OF ALL AREAS (MIN. 15 FEET FROM STRUCTURES).
7. ALL NEW PLANTING, REPLANTING OF SALVAGE PLANT MATERIAL, DESERT RESTORATION, AND HYDROSEEDING RESTORATION WORK SHALL CONFORM TO M.A.G. STANDARD SPECIFICATIONS AND DETAILS AND THE CITY OF SCOTTSDALE M.A.G. SUPPLEMENTAL SPECIFICATIONS AND SUPPLEMENTAL STANDARD DETAILS (MAG).
8. COORDINATE CACTI AND TREE PLANTING INSTALLATION WITH CITY ENGINEER. FINAL LOCATION OF ALL PLANT MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
9. STAKE ALL TREES WHEN PLANTED PER THE CITY OF SCOTTSDALE M.A.G. SUPPLEMENTAL SPECIFICATIONS AND SUPPLEMENTAL STANDARD DETAIL (MAG). MAINTAIN TEMPORARY NURSERY INCLUDING: WEEDING AND FERTILIZING.

CITY OF SCOTTSDALE LANDSCAPE NOTES

1. ALL RIGHTS-OF-WAY AND ADJACENT PROPERTY AREAS DAMAGED AND RESTORED SHALL BE MAINTAINED BY THE PROPERTY OWNER ONCE FINAL ACCEPTANCE HAS BEEN ISSUED BY THE INSPECTING COS ENGINEER.
2. ALL LANDSCAPING SHALL BE INSTALLED PER THE MOST CURRENT VERSION OF THE COS SUPPLEMENT TO MAG SPECIFICATIONS AND DETAILS SECTION 430 AND COS DESIGN STANDARDS AND POLICY MANUAL.

DESERT RESTORATION

HYDROSEEDING/RESTORATION AREA NOTES

- DESERT RESTORATION AND HYDROSEEDING NATIVE SEED MIX PER M.A.G. STD SPECIFICATIONS & DETAILS AND COS M.A.G. SUPPLEMENTAL SPECIFICATIONS & STD DETAILS.
 1. INTERGRATE NEW & SALVAGED PLANT MATERIAL WITH HYDROSEEDING AS PART OF THE NATIVE DESERT REVEGETATION RESTORATION SEEDING OPERATIONS.
 4. APPLIED TO ALL UNPAVED DISTURBED SOIL AREAS AS SHOWN IN THE LANDSCAPE PLANTING PLANS. THIS INCLUDES ALL AREAS OF DISTURBANCE INCLUDING BUT NOT LIMITED TO CT-FILL SLOPES, NEW SLOPES DOWN TO THE LIMITS OF THE TOE OF SLOPE OF UNPAVED DISTURBED AREAS AS SHOWN ON LANDSCAPE PLANS OR AS DIRECTED BY THE CITY ENGINEER.
 5. THE APPLICATION OF THIS SEED MIX WILL BE IN AREAS WHERE NO SUPPLEMENTAL IRRIGATION WATER WILL BE REQUIRED TO IRRIGATE THE SEED MIX AREAS.
 6. CONTRACTOR SHALL FIELD STAKE LIMIT OF DISTURBANCE (CONSTRUCTION WORK) AND OBTAIN CITY ENGINEER'S APPROVAL PRIOR TO ANY CONSTRUCTION WORK.

DESERT RESTORATION

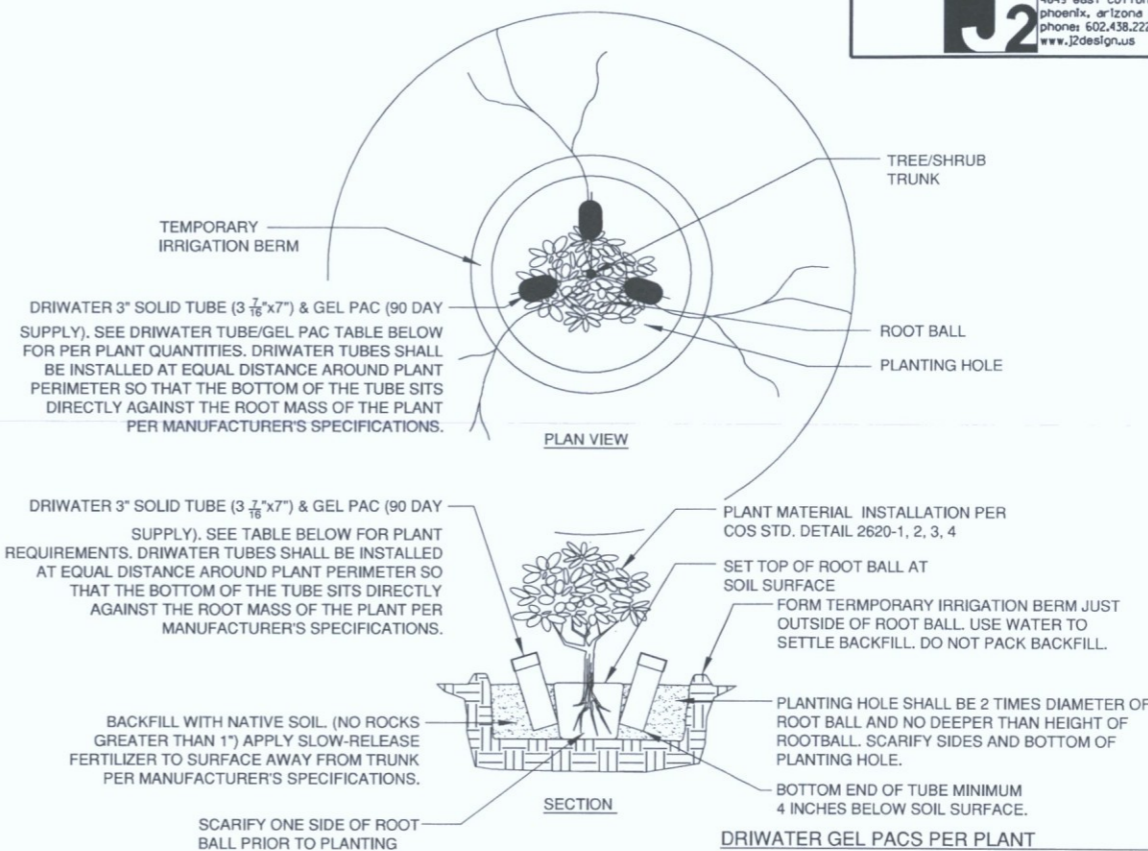
NATIVE SEED MIX DESCRIPTION

BOTANICAL NAME	COMMON NAME	BOTANICAL NAME	COMMON NAME
GRASSES			
ARISTIDA PURPUREA	PURPLE THREE AWN	SHRUBS (SUFRUTESCENT)	
BOUTELOUA ARISTIDOIDES	NEEDLE GRAMA	AMBROSIA DELTOIDS	TRIANGLE LEAF BURSAGE
BOUTELOUA ROTHROCKII	SIX WEEKS GRAMA	AMBROSIA DUMOSA	WHITE BURSAGE
SPOROBOLUS AIROIDES	ALKALI SACATON	ENCELIA FARINOSA	BRITTLEBUSH
WOODY SHRUBS AND TREES			
WILDFLOWERS/FORBS			
BAILEYA MULTIRADIATA	DESERT MARIGOLD	ACACIA CONSTRICTA	WHITE THORN ACACIA
CASSIA COUESII	DESERT SENNA	ACACIA GREGGII	CATCLAW ACACIA
LESQUERELLA GORDONII	GORDONS BLADDERPOOL	ATRIPLEX LENTIFORMIS	QUAIL BUSH
PHACELIA CRENULATA	DESERT PHACELIA	CERCIDIUM FLORIDUM	BLUE PALO VERDE
PLANTAGO OVATA	DESERT INDIAN WHEAT	PROSOPIS VELUTINA	VELVET MESQUITE
SPHAERALCEA AMBIGUA	DESERT GLOBEMALLOW		

LANDSCAPE GENERAL NOTES

LANDSCAPE PLANTING NOTES

1. ALL NEW PLANT MATERIAL SHALL MEET THE ARIZONA NURSERY ASSOCIATION STANDARD SHRUB SPECIFICATIONS FOR HEIGHT AND WIDTH UNLESS INDICATED OTHERWISE ON THESE PLANS.
2. THE CITY ENGINEER RESERVES THE RIGHT TO REFUSE ANY PLANT MATERIAL DEEMED UNACCEPTABLE UPON DELIVERY TO THE SITE.
3. ANY AND ALL SUBSTITUTIONS SHALL BE APPROVED BY THE CITY ENGINEER.
4. COORDINATE PLANTING INSTALLATION WITH CITY ENGINEER. FINAL LOCATION OF ALL PLANT MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
5. THE PLANTING DESIGN MAY BE MODIFIED TO ADAPT TO CONCRETE PATH AND DG TRAIL. CONFIGURATION CHANGES AND GRADE VARIATIONS ON-SITE ONLY WITH THE CITY ENGINEERS APPROVAL.
6. A SINGLE TRUNK TREE'S CALIPER SIZE, THAT IS EQUAL TO OR LESS THAN 4-INCHES, SHALL BE DETERMINED BY UTILIZING THE SMALLEST DIAMETER OF THE TRUNK 6-INCHES ABOVE FINISHED GRADE ADJACENT TO THE TRUNK. A TREE'S CALIPER SIZE, FOR A SINGLE TREE TRUNK THAT IS TO HAVE A DIAMETER GREATER THAN 4-INCHES, SHALL BE DETERMINED BY UTILIZING THE SMALL DIAMETER OF THE TRUNK 12-INCHES ABOVE FINISH GRADE ADJACENT TO THE TRUNK. A MULTIPLE TRUNK TREE'S CALIPER SIZE IS MEASURED AT 6-INCHES ABOVE THE LOCATION THAT THE TRUNK SPLITS ORIGINATES, OR 6-INCHES ABOVE FINISHED GRADE IF ALL TRUNKS ORIGINATE FROM THE SOIL.
7. AREA WITHIN THE SIGHT DISTANCE TRIANGLES IS TO BE CLEAR OF LANDSCAPING, SIGNS, OR OTHER VISIBILITY OBSTRUCTIONS WITH A HEIGHT GREATER THAN 1.5 FEET. TREES WITHIN THE SIGHT TRIANGLE SHALL HAVE A SINGLE TRUNK AND A CANOPY THAT BEGINS AT 8 FEET IN HEIGHT UPON INSTALLATION. ALL HEIGHTS ARE MEASURED FROM NEAREST STREET LINE ELVATION.
8. NEW LANDSCAPING, INCLUDING SALVAGED PLANT MATERIAL AND LANDSCAPING INDICATED TO REMAIN, WHICH IS DESTROYED, DAMAGED, OR EXPIRES DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE SIZE, KIND, AND QUANTITY PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY / LETTER OF ACCEPTANCE TO THE SATISFACTION OF THE CITY'S INSPECTION STAFF.



- NOTES:
1. PLANT PIT BASINS WITHIN SLOPED PLANTING AREA SHALL BE CONSTRUCTED WITH A MAX. 2:1 SLOPE. PROVIDE SMOOTH TRANSITION TO SURROUNDING FINISH GRADE.
 2. SOIL SHALL BE WATERED AT THE TIME OF INTIAL DRIWATER APPLICATION.
 3. REMOVE DRIWATER GEL FROM PACKAGE PRIOR TO PLACEMENT IN TUBE.

SUPPLEMENTAL IRRIGATION DETAILS

SECTION AND PLAN VIEWS

DRIWATER GEL PACS PER PLANT

GENERAL USE GUIDE FOR IN-GROUND PLANTS

CONTAINER SIZE	HEIGHT	90 DAY SUPPLY	ZONE
1 GAL.	1' to 3'	1 TUBE / 2 GEL PACS	5
5 GAL.	3' - 5'	2 TUBES / 4 GEL PACS	5
15 GAL.	7' - 8'	3 TUBES / 6 GEL PACS	5
SAGUARO	6' to 7'	1 TUBE / 2 GEL PACS	5
OCOTILLO	6' to 7'	1 TUBE / 2 GEL PACS	5

CLIMATE ZONE: 5 - SOUTHWEST

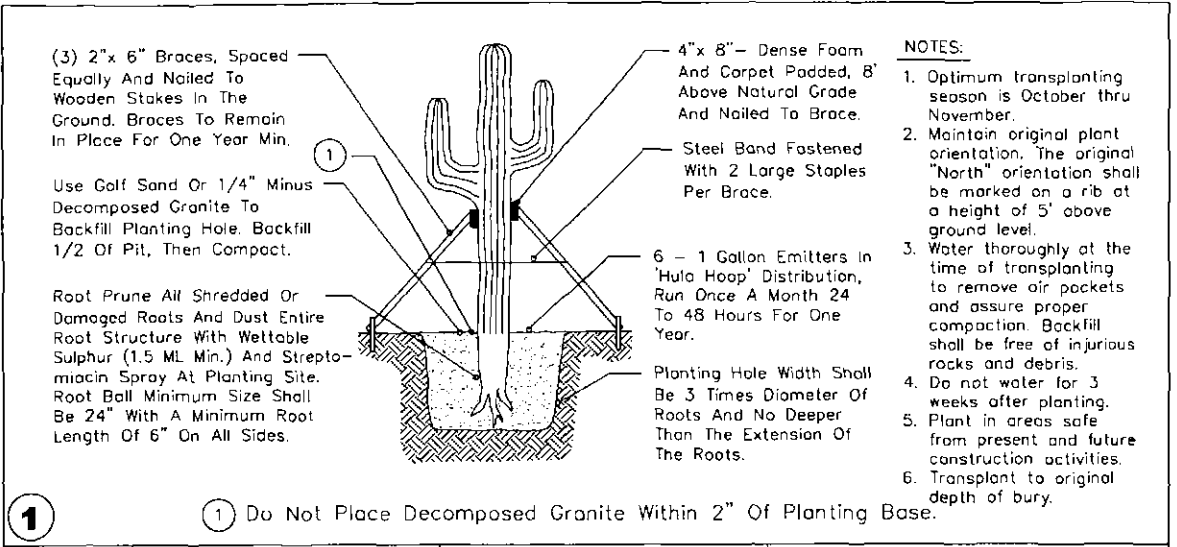
1 TREE / SHRUB PLANTING & DRIWATER INSTALLATION

SHRUB INSTALLATION PER COS STD. DETAIL 2620-1 & DRIWATER SCALE: NTS
EXTENDED SOLID TUBES & GEL PACS

J2 engineering and environmental design
4649 east cotton gin loop, suite B2
phoenix, arizona 85040
phone: 602.438.2221
www.j2designus.com

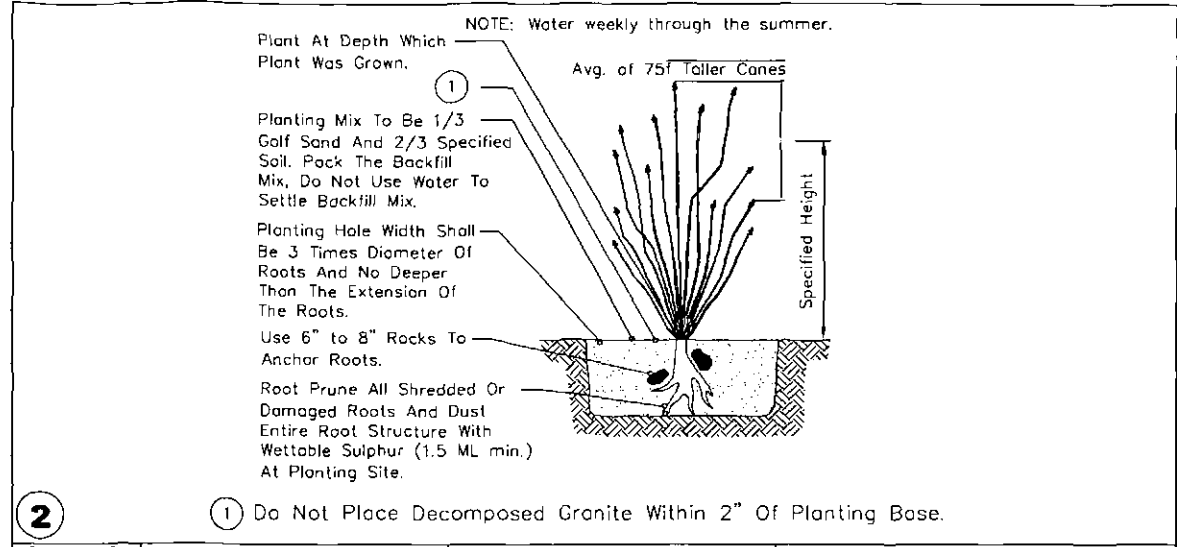
ARIZONA BLUE STAKE
CALL TWO WORKING DAYS BEFORE YOU BID
Dial 811 or 602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE: LANDSCAPE NOTES & SUMMARY		
PROJECT TITLE: SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ.	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
BID NO.	SHT.	
16BP020	LS02	
PROJECT NO.	77	OF 105



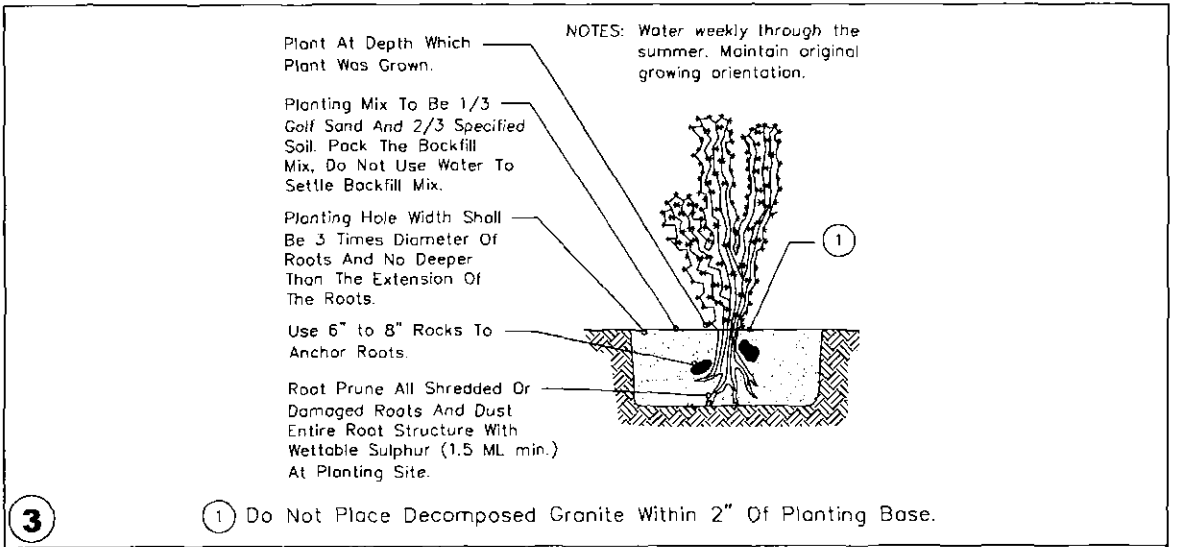
1 Do Not Place Decomposed Granite Within 2" Of Planting Base.

DETAIL NO. 2620-2 City of Scottsdale Standard Details
 APPROVED BY: Scottsdale Standards & Specifications Committee
 Saguaro Planting Type



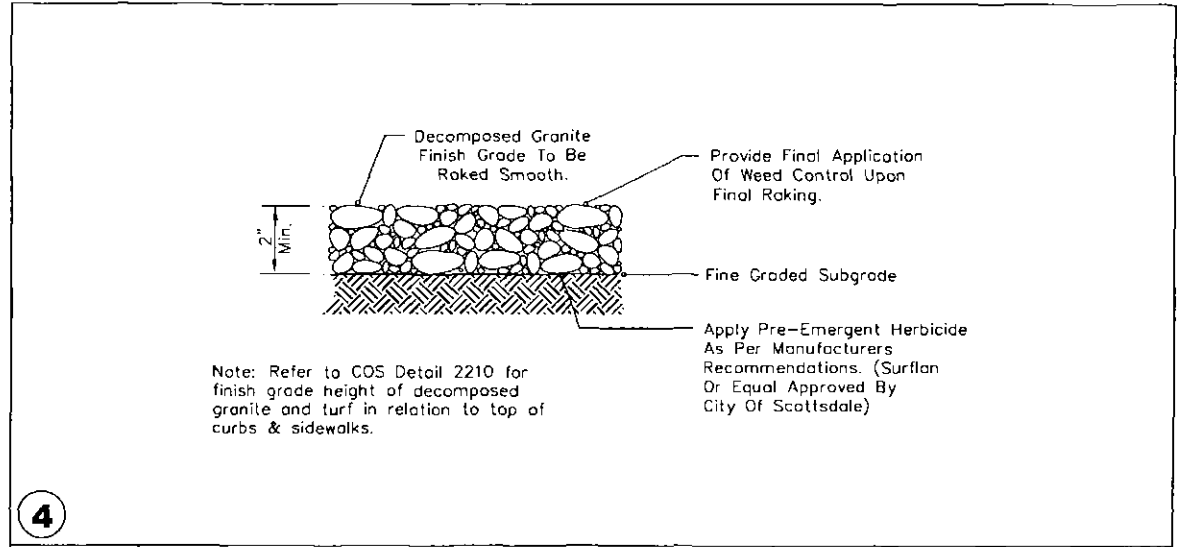
2 Do Not Place Decomposed Granite Within 2" Of Planting Base.

DETAIL NO. 2620-2 City of Scottsdale Standard Details
 APPROVED BY: Scottsdale Standards & Specifications Committee
 Ocotillo Planting



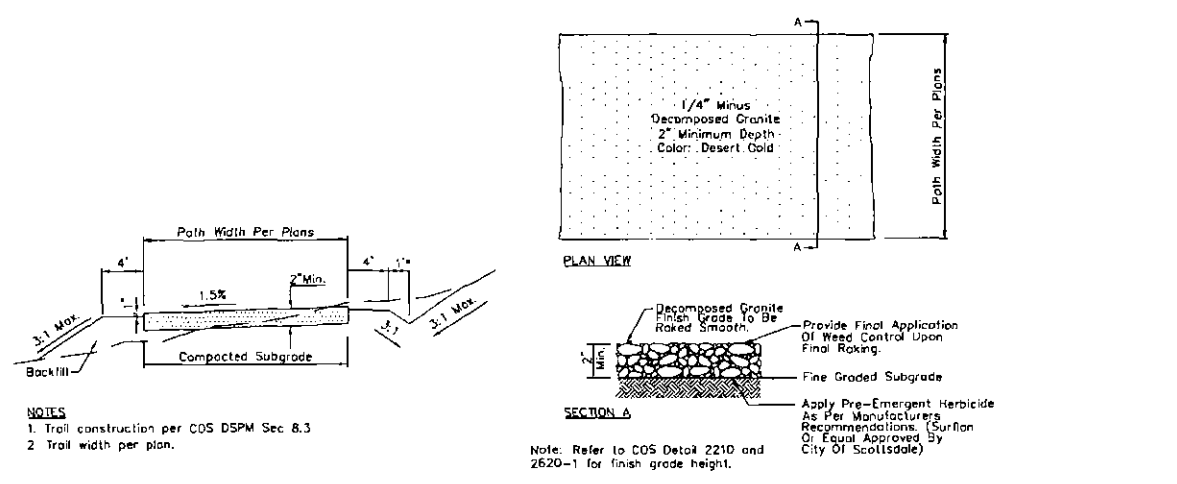
3 Do Not Place Decomposed Granite Within 2" Of Planting Base.

DETAIL NO. 2620-2 City of Scottsdale Standard Details
 APPROVED BY: Scottsdale Standards & Specifications Committee
 Cactus Planting



4 Decomposed Granite

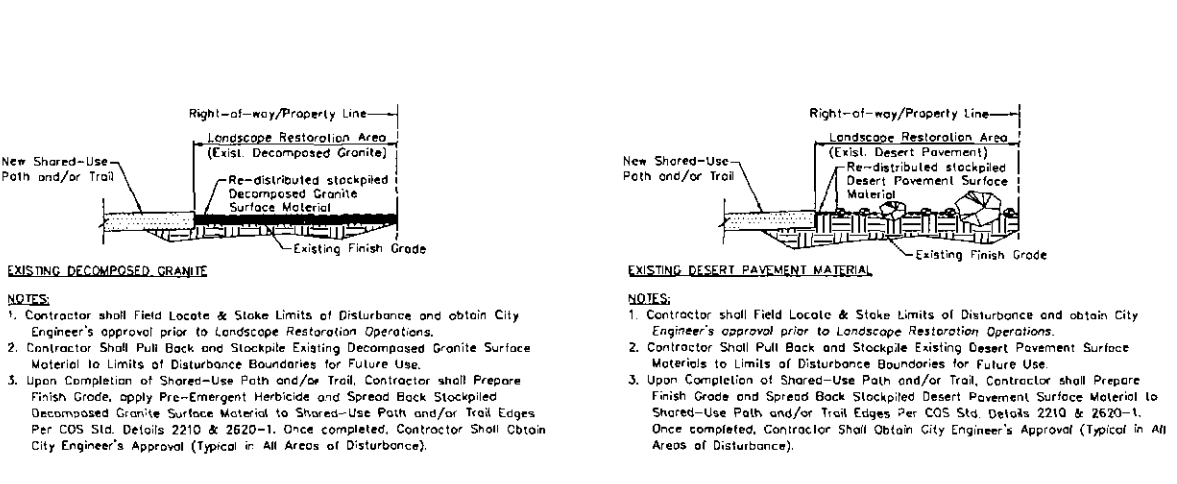
DETAIL NO. 2620-1 City of Scottsdale Standard Details
 APPROVED BY: Scottsdale Standards & Specifications Committee
 Decomposed Granite



5 TRAIL CONSTRUCTION

SCALE: NTS

NOTES:
 1. Trail construction per COS DSPM Sec. 8.3
 2. Trail width per plan.



6 LANDSCAPE RESTORATION: EXISTING DESERT PAVEMENT & DECOMPOSED GRANITE

SCALE: NTS

NOTES:
 1. Contractor shall field locate & stake limits of disturbance and obtain City Engineer's approval prior to Landscape Restoration Operations.
 2. Contractor shall pull back and stockpile existing decomposed granite surface material to limits of disturbance boundaries for future use.
 3. Upon completion of shared-use path and/or trail, contractor shall prepare finish grade, apply pre-emergent herbicide and spread back stockpiled decomposed granite surface material to shared-use path and/or trail edges per COS Std. Details 2210 & 2620-1. Once completed, contractor shall obtain City Engineer's approval (typical in all areas of disturbance).

ARIZONA BLUE STAKE
 CALL THE HOLDING OFFICE BEFORE YOU BID
 Dial 811 or 602-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY

ENGINEER: JEFFREY M. ENCELMANN
 23430
 ARIZONA, U.S.A.

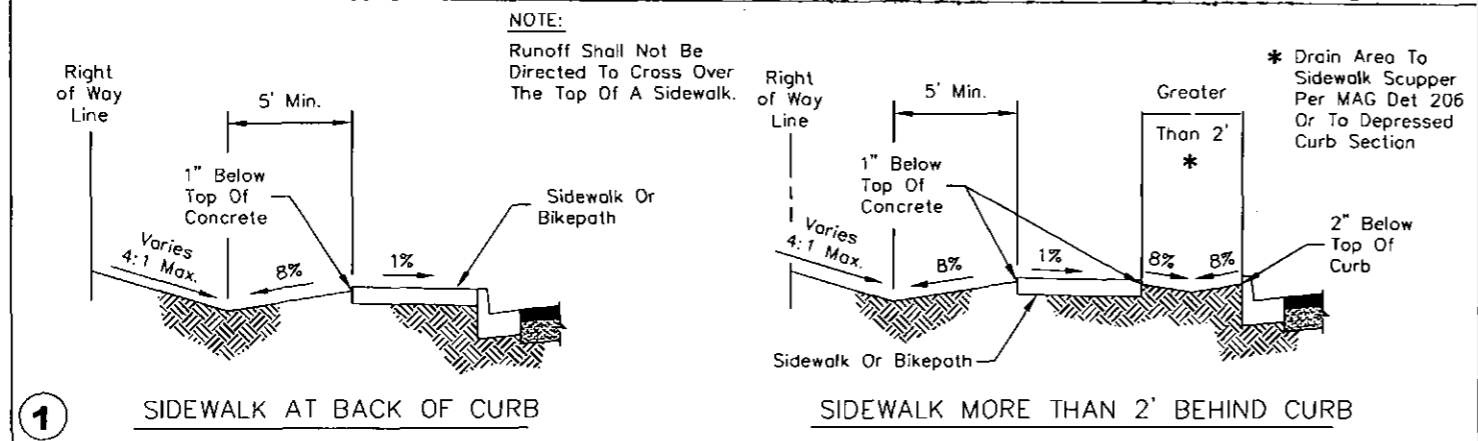
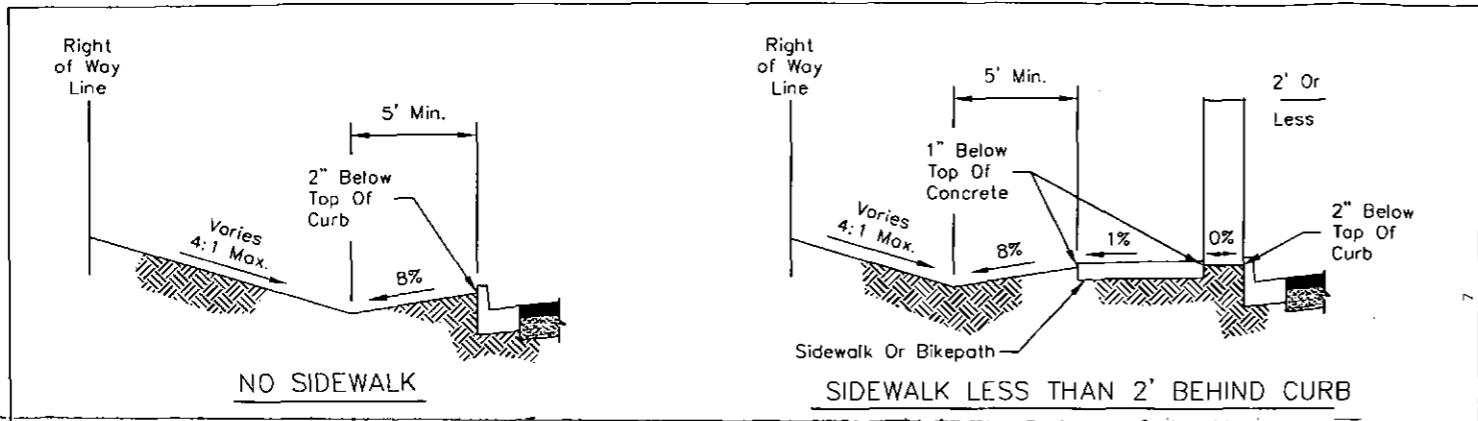
CITY OF SCOTTSDALE
 PUBLIC WORKS
 CAPITAL PROJECT MANAGEMENT
 7447 E. INDIAN SCHOOL RD.,
 SCOTTSDALE, ARIZONA 85251

EXPIRES: 9/30/2017

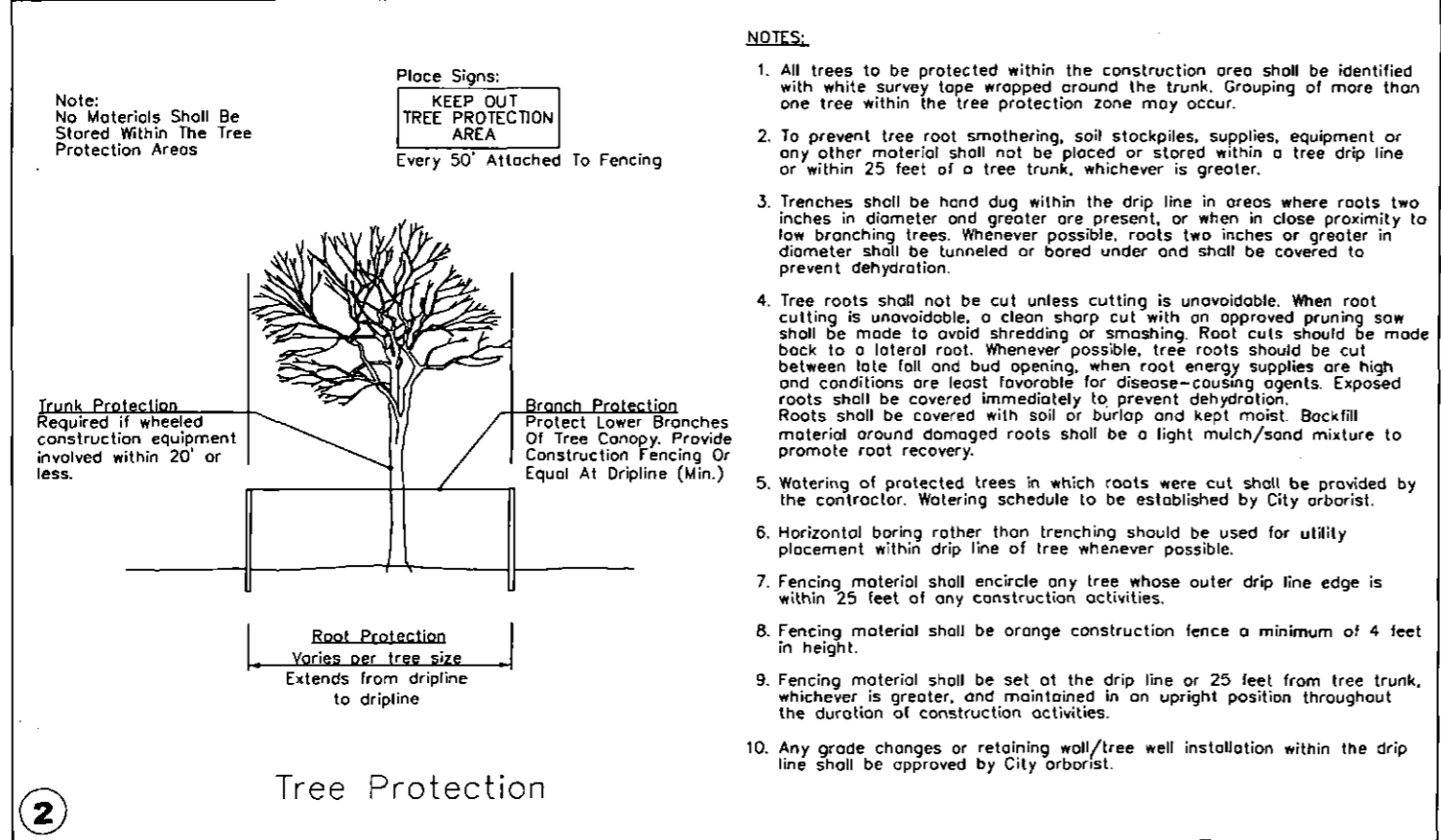
SHEET TITLE: LANDSCAPE DETAILS

PROJECT TITLE: SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL

SCALE	DESIGNED	DATE	BID NO.	SHT.
HORIZ.	RC	1/16	16BPO20	1002
VERT.	J2	AS-BUILT	PROJECT NO.	79 OF 105



DETAIL NO. 2210 City of Scottsdale Standard Details APPROVED BY: Scottsdale Standards & Specifications Committee GRADING BEHIND THE CURB DETAIL NO. 2210



- NOTES:**
- All trees to be protected within the construction area shall be identified with white survey tape wrapped around the trunk. Grouping of more than one tree within the tree protection zone may occur.
 - To prevent tree root smothering, soil stockpiles, supplies, equipment or any other material shall not be placed or stored within a tree drip line or within 25 feet of a tree trunk, whichever is greater.
 - Trenches shall be hand dug within the drip line in areas where roots two inches in diameter and greater are present, or when in close proximity to low branching trees. Whenever possible, roots two inches or greater in diameter shall be tunneled or bored under and shall be covered to prevent dehydration.
 - Tree roots shall not be cut unless cutting is unavoidable. When root cutting is unavoidable, a clean sharp cut with an approved pruning saw shall be made to avoid shredding or smashing. Root cuts should be made back to a lateral root. Whenever possible, tree roots should be cut between late fall and bud opening, when root energy supplies are high and conditions are least favorable for disease-causing agents. Exposed roots shall be covered immediately to prevent dehydration. Roots shall be covered with soil or burlap and kept moist. Backfill material around damaged roots shall be a light mulch/sand mixture to promote root recovery.
 - Watering of protected trees in which roots were cut shall be provided by the contractor. Watering schedule to be established by City arborist.
 - Horizontal boring rather than trenching should be used for utility placement within drip line of tree whenever possible.
 - Fencing material shall encircle any tree whose outer drip line edge is within 25 feet of any construction activities.
 - Fencing material shall be orange construction fence a minimum of 4 feet in height.
 - Fencing material shall be set at the drip line or 25 feet from tree trunk, whichever is greater, and maintained in an upright position throughout the duration of construction activities.
 - Any grade changes or retaining wall/tree well installation within the drip line shall be approved by City arborist.

2 Tree Protection
 DETAIL NO. 2620-4 City of Scottsdale Standard Details APPROVED BY: Scottsdale Standards & Specifications Committee LANDSCAPE DETAILS DETAIL NO. 2620-4

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 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
EXP. DATE: 9/30/2017 SHEET TITLE: LANDSCAPE & IRRIGATION DETAILS PROJECT TITLE: SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. RC	1/16	16BPO20
VERT. DR	AS-BUILT	LD03
PROJECT NO.		80 OF 105



SURFACE MATERIAL LEGEND

Existing Areas of Decomposed Granite within R/W and TCE areas. Apply Pre-Emergent Per COS Std Dtl 2620 See Plans for Locations.

Existing Areas of 'Desert Pavement' within R/W and TCE areas. See Plans for Locations.

- Notes:
 1. See Surface Material Schedule; this Sheet, Lower Left Corner.
 2. See Sheet NPS01 for Complete Native Plant Inventory Survey Tables

**STIPULATION SET
 RETAIN FOR RECORDS**

APPROVED

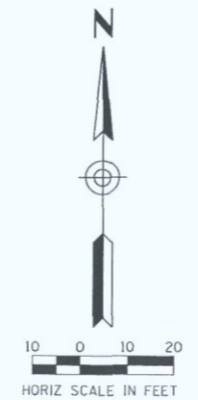
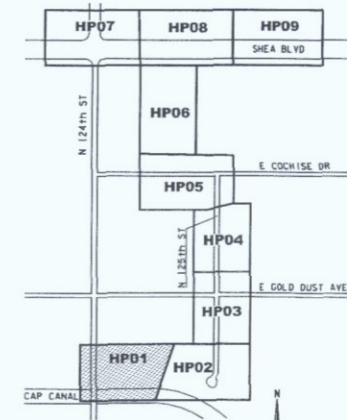
5-12-16 **KN**
 DATE INITIALS

Contractor Notes: Landscape Restoration Areas
 1. Field Locate and Stake Landscape Restoration Limits of Disturbance Boundaries and Obtain City Engineer's approval prior to Native Plant Salvage Operations Work.
 2. Salvaging Contractor shall review the Project's Native Plant Inventory Plans and Tables with the City Engineer's prior to starting Salvaging Operations Work.
 3. Clear ALL Trash, Debris, and Weeds within Landscape Restoration Limits of Disturbance Boundaries.
 4. Pull Back and Stockpile Existing Decomposed Granite Surface Materials to Limits of Disturbance Boundaries for Future Use.
 5. Field Locate and Stake New Shared-Use Pathway and Trail locations and obtain City Engineer's Approval prior to Construction Work.
 6. Once New Shared-Use Pathway and Trail Construction Work has been Completed, Feather Back Stockpiled Desert Pavement Surface Materials to Shared-Use Pathway and Trail edges per COS Std. Detail 2210 and obtain City Engineer's approval.

- Contractor Notes:**
 1. The Contractor shall take all Necessary Precautionary Measures to Protect Adjacent Properties from damage throughout Construction.
 2. The Contractor shall Verify and Accept all Site Conditions and Rough Grades prior to starting any Construction Work.
 3. Contractor Shall Field Locate and Stake Limits of Disturbance and Obtain City Engineer's Approval prior to Landscape Restoration Operations.
 4. All Existing Decomposed Granite and Indigenous 'Desert Pavement' Surface Materials within Limits of Disturbance Shall be Pulled Back to Limits of Disturbance Boundaries for Future Use.
 5. Upon Completion of Shared-Use Path and/or Trail Construction, the Contractor Shall Fine Grade Disturbed Areas and Spread Back Stockpiled Decomposed Granite or Indigenous 'Desert Pavement' Surface Materials to Shared-Use Path and/or Trail Edges Per COS Details 2210 and 2620.1.
 6. Once Completed, Contractor Shall Obtain City Engineer's Approval (Typical All Areas of Disturbance).

SURFACE MATERIAL SCHEDULE - OVERALL QUANTITIES

Description	Qty	Supplier	Color	Detail
Existing Areas of Decomposed Granite within R/W and TCE Areas. See Plans for Locations.	EXISTING	Existing Areas; Pull back, Stockpile and Re-Use.	Existing	Detail 6, Sheet LD02
Existing Areas of 'Desert Pavement' within R/W and TCE Areas. See Plans for Locations.	EXISTING	Existing Areas; Pull back, Stockpile and Re-Use.	Existing	Detail 6, Sheet LD02
8' Gabion Basket Bench with 4" Integral Color Concrete Cap and Pad See Plans for Locations.	2	Contractor	Color: No. 5237 San Diego Buff	Detail 1, Sheet LD04
Existing Shea Blvd. Access Tunnel Wing Walls See Plans for Locations.	4	Paint MFG; Davis Color	Color: No. 5237 San Diego Buff	See Special Provisions




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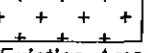
DATE	REVISION	BY
ENGINEER	PUBLIC WORKS	
	CAPITAL PROJECT MANAGEMENT	
Express: 9/30/2017	7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	
SHEET TITLE		
HARDSCAPE PLAN		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
PROJECT NO.		SMT.
16BP020		HP01
91 OF 105		

Handscaping

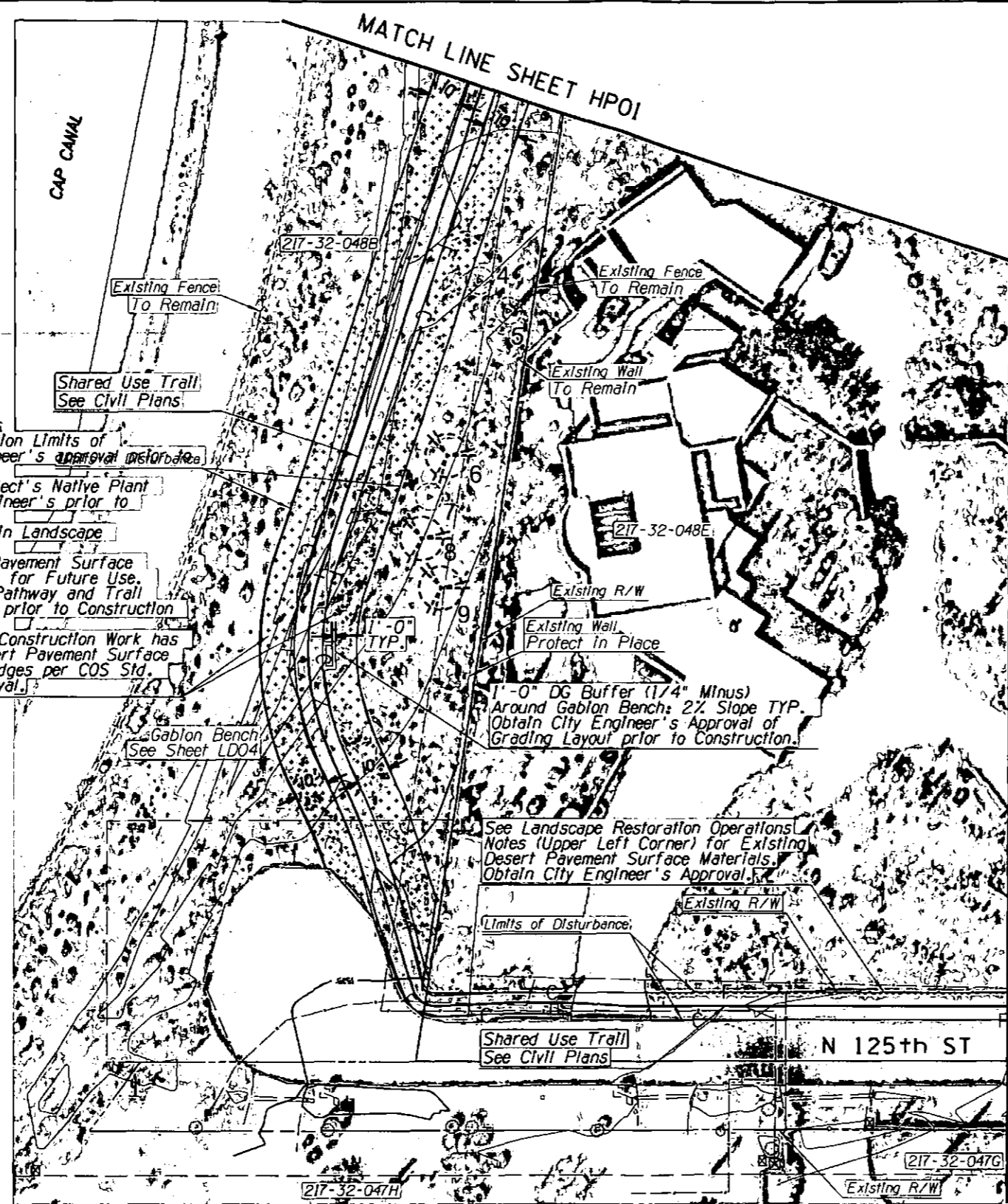
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SURFACE MATERIAL LEGEND

 Existing Areas of Decomposed Granite within R/W and TCE areas. Apply Pre-Emergent Per COS Std Dtl 2620 See Plans for Locations.

 Existing Areas of 'Desert Pavement' within R/W and TCE areas. See Plans for Locations.

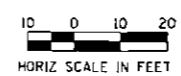
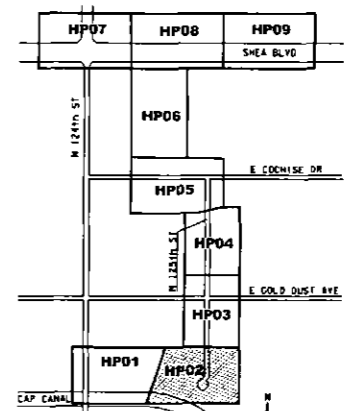
- Notes:**
1. See Sheet NPS01 for Complete Native Plant Inventory Survey Tables
 2. See Sheet HPO1 for Overall Surface Material Quantities




- Contractor Notes: Landscape Restoration Areas**
1. Field Locate and Stake Landscape Restoration Limits of Disturbance Boundaries and Obtain City Engineer's approval prior to Native Plant Salvage Operations Work.
 2. Salvaging Contractor shall review the Project's Native Plant Inventory Plans and Tables with the City Engineer's prior to starting Salvaging Operations Work.
 3. Clear ALL Trash, Debris, and Weeds within Landscape Restoration Limits of Disturbance Boundaries.
 4. Pull Back and Stockpile Existing Desert Pavement Surface Materials to Limits of Disturbance Boundaries for Future Use.
 5. Field Locate and Stake New Shared-Use Pathway and Trail locations and obtain City Engineer's Approval prior to Construction Work.
 6. Once New Shared-Use Pathway and Trail Construction Work has been Completed, Feather Back Stockpiled Desert Pavement Surface Materials to Shared-Use Pathway and Trail edges per COS Std. Detail 2210 and obtain City Engineer's approval.

- Contractor Notes:**
1. The Contractor shall take all Necessary Precautionary Measures to Protect Adjacent Properties from damage throughout Construction.
 2. The Contractor shall Verify and Accept all Site Conditions and Rough Grades prior to starting any Construction Work.
 3. Contractor Shall Field Locate and Stake Limits of Disturbance and Obtain City Engineer's Approval prior to Landscape Restoration Operations.
 4. All Existing Decomposed Granite and Indigenous 'Desert Pavement' Surface Materials within Limits of Disturbance Shall be Pulled Back to Limits of Disturbance Boundaries for Future Use.
 5. Upon Completion of Shared-Use Path and/or Trail Construction, the Contractor Shall Fine Grade Disturbed Areas and Spread Back Stockpiled Decomposed Granite or Indigenous 'Desert Pavement' Surface Materials to Shared-Use Path and/or Trail Edges Per COS Details 2210 and 2620.1.
 4. Once Completed, Contractor Shall Obtain City Engineer's Approval (Typical All Areas of Disturbance).

MATCH LINE SHEET HP03



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 Dial 811 or 602-263-1100
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DATE	REVISION	BY
ENGINEER		
	PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 1447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	
SHEET TITLE		
HARDSCAPE PLAN		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	J2	AS-BUILT
SHEET NO.		SHEET
16BP020		HP02
PROJECT NO.		92 OF 105

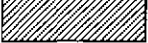
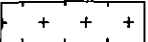
Contractor Notes: Landscape Restoration Areas

1. Field Locate and Stake Landscape Restoration Limits of Disturbance Boundaries and Obtain City Engineer's approval prior to Native Plant Salvage Operations Work.
2. Salvaging Contractor shall review the Project's Native Plant Inventory Plans and Tables with the City Engineer's prior to starting Salvaging Operations Work.
3. Clear ALL Trash, Debris, and Weeds within Landscape Restoration Limits of Disturbance Boundaries.
4. Pull Back and Stockpile Existing Desert Pavement Surface Materials to Limits of Disturbance Boundaries for Future Use.
5. Field Locate and Stake New Shared-Use Pathway and Trail locations and obtain City Engineer's Approval prior to Construction Work.
6. Once New Shared-Use Pathway and Trail Construction Work has been Completed, Feather Back Stockpiled Desert Pavement Surface Materials to Shared-Use Pathway and Trail edges per COS Std. Detail 2210 and obtain City Engineer's approval.

Contractor Notes: Landscape Restoration Areas

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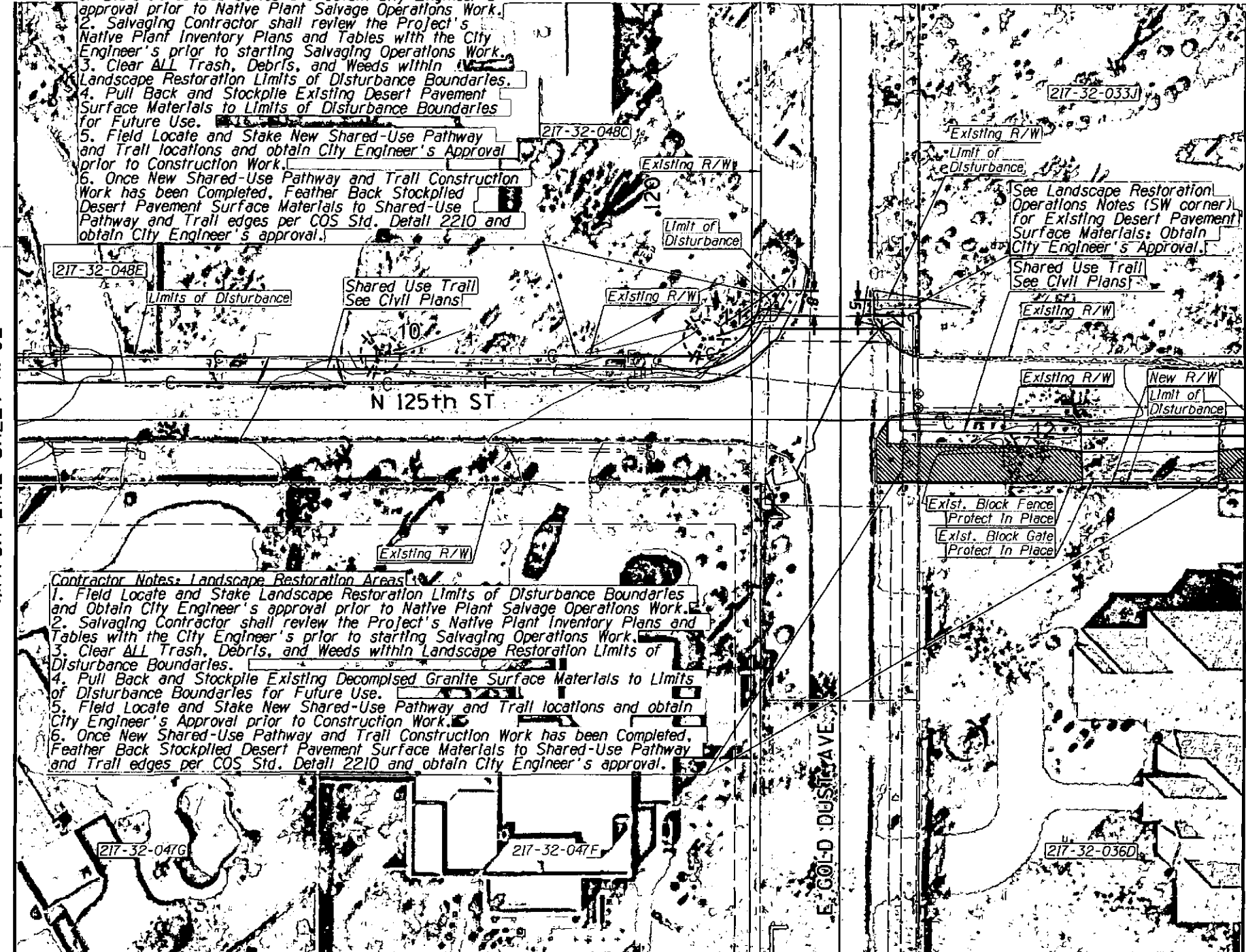
SURFACE MATERIAL LEGEND

-  Existing Areas of Decomposed Granite within R/W and TCE areas. Apply Pre-Emergent Per COS Std D11 2620 See Plans for Locations.
-  Existing Areas of 'Desert Pavement' within R/W and TCE areas. See-Plans-for-Locations.

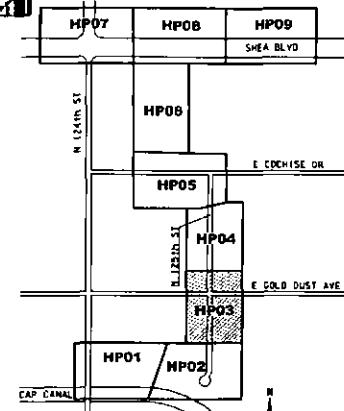
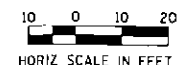
- Notes:**
1. See Sheet NPS01 for Complete Native Plant Inventory Survey Tables
 2. See Sheet HP01 for Overall Surface Material Quantities

MATCH LINE SHEET HP02

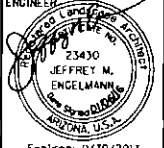

MATCH LINE SHEET HP04



- Contractor Notes:**
1. The Contractor shall take all Necessary Precautionary Measures to Protect Adjacent Properties from damage throughout Construction.
 2. The Contractor shall Verify and Accept all Site Conditions and Rough Grades prior to starting any Construction Work.
 3. Contractor Shall Field Locate and Stake Limits of Disturbance and Obtain City Engineer's Approval prior to Landscape Restoration Operations.
 4. All Existing Decomposed Granite and Indigenous 'Desert Pavement' Surface Materials within Limits of Disturbance Shall be Pulled Back to Limits of Disturbance Boundaries for Future Use.
 5. Upon Completion of Shared-Use Path and/or Trail Construction, the Contractor Shall Fine Grade Disturbed Areas and Spread Back Stockpiled Decomposed Granite or Indigenous 'Desert Pavement' Surface Materials to Shared-Use Path and/or Trail Edges Per COS Details 2210 and 2620.1.
 4. Once Completed, Contractor Shall Obtain City Engineer's Approval (Typical All Areas of Disturbance).



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DATE	REVISION	BY
ENGINEER		
		
		
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT		
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE HARDSCAPE PLAN		
PROJECT TITLE SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DATE	BID NO.
HORIZ. 1"=20'	DESIGNED RC 1/16	16BP020
VERT.	DRAWN J2 AS-BUILT	PROJECT NO.
		SHT. HP03
		93 OF 105

XXX-XX



Contractor Notes: Landscape Restoration Areas

1. Field Locate and Stake Landscape Restoration Limits of Disturbance Boundaries and Obtain City Engineer's approval prior to Native Plant Salvage Operations Work.
2. Salvaging Contractor shall review the Project's Native Plant Inventory Plans and Tables with the City Engineer's prior to starting Salvaging Operations Work.
3. Clear ALL Trash, Debris, and Weeds within Landscape Restoration Limits of Disturbance Boundaries.
4. Pull Back and Stockpile Existing Desert Pavement Surface Materials to Limits of Disturbance Boundaries for Future Use.
5. Field Locate and Stake New Shared-Use Pathway and Trail locations and obtain City Engineer's Approval prior to Construction Work.
6. Once New Shared-Use Pathway and Trail Construction Work has been Completed, Feather Back Stockpiled Desert Pavement Surface Materials to Shared-Use Pathway and Trail edges per COS Std. Detail 2210 and obtain City Engineer's approval.

Contractor Notes: Landscape Restoration Areas

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6. Once New Shared-Use Pathway and Trail Construction Work has been Completed, Feather Back Stockpiled Desert Pavement Surface Materials to Shared-Use Pathway and Trail edges per COS Std. Detail 2210 and obtain City Engineer's approval.

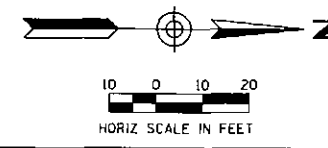
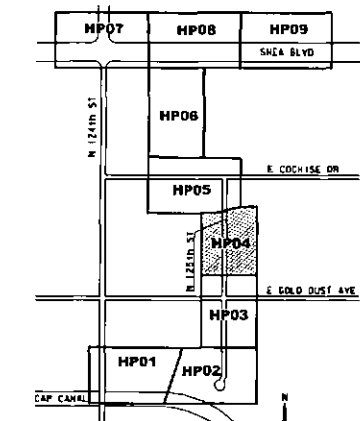
SURFACE MATERIAL LEGEND

- Existing Areas of Decomposed Granite within R/W and TCE areas. Apply Pre-Emergent Per COS Std Det 2620 See Plans for Locations.
- Existing Areas of 'Desert Pavement' within R/W and TCE areas. See Plans for Locations.

Notes:

1. See Sheet NPS01 for Complete Native Plant Inventory Survey Tables
2. See Sheet HPO1 for Overall Surface Material Quantities

- Contractor Notes:**
1. The Contractor shall take all Necessary Precautionary Measures to Protect Adjacent Properties from damage throughout Construction.
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 4. All Existing Decomposed Granite and Indigenous 'Desert Pavement' Surface Materials within Limits of Disturbance Shall be Pulled Back to Limits of Disturbance Boundaries for Future Use.
 5. Upon Completion of Shared-Use Path and/or Trail Construction, the Contractor Shall Fine Grade Disturbed Areas and Spread Back Stockpiled Decomposed Granite or Indigenous 'Desert Pavement' Surface Materials to Shared-Use Path and/or Trail Edges Per COS Details 2210 and 2620.1.
 4. Once Completed, Contractor Shall Obtain City Engineer's Approval (Typical All Areas of Disturbance).



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DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE HARDSCAPE PLAN		
PROJECT TITLE SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DATE	SHT.
HORIZ. 1"=20'	DESIGNED RC 1/16	16BP020
VERT.	DRANN J2 AS-BUILT	PROJECT NO. 94 OF 105

XXX-XX

MATCH LINE SHEET HP06



Contractor Notes for Landscape Restoration Areas:
See Landscape Restoration Contractor Notes at the Bottom of this Page for Landscape Restoration Areas located on the North Side of E. Cochise Drive Between Trail Sta 210 & Sta 213 and within the Limits of Disturbance Boundaries.

Contractor Notes: Landscape Restoration Areas
1. Field Locate and Stake Landscape Restoration Limits of Disturbance Boundaries and Obtain City Engineer's approval prior to Native Plant Salvage Operations Work.
2. Salvaging Contractor shall review the Project's Native Plant Inventory Plans and Tables with the City Engineer's prior to starting Salvaging Operations Work.
3. Clear ALL Trash, Debris, and Weeds within Landscape Restoration Limits of Disturbance Boundaries.
4. Pull Back and Stockpile Existing Desert Pavement Surface Materials to Limits of Disturbance Boundaries for Future Use.
5. Field Locate and Stake New Shared-Use Pathway and Trail locations and obtain City Engineer's Approval prior to Construction Work.
6. Once New Shared-Use Pathway and Trail Construction Work has been Completed, Feather Back Stockpiled Desert Pavement Surface Materials to Shared-Use Pathway and Trail edges per COS Std. Detail 2210 and obtain City Engineer's Approval.

Landscape Restoration Contractor Notes:
Landscape Restoration Areas located on the North Side of E. Cochise Drive Between Trail Sta 210 & Sta 213 and within the Limits of Disturbance Boundaries.

1. Field Locate and Stake Landscape Restoration Limits of Disturbance Boundaries and Obtain City Engineer's approval prior to Native Plant Salvage Operations Work.
2. Salvaging Contractor shall review the Project's Native Plant Inventory Plans and Summary Tables with the City Engineer's prior to starting Salvaging Operations Work.
3. Clear ALL Trash, Debris, and Weeds within Landscape Restoration Limits of Disturbance Boundaries.
4. Within Landscape Restoration Limits of Disturbance Boundaries along the North side of E. Cochise Drive, Protect In Place ALL Existing Native Plants, Including Creosote Bushes and Cacti NOT INCLUDED in Native Plant Inventory Plans and Summary Tables.
5. Pull Back "NO BLADING" and Stockpile Existing Desert Pavement Surface Materials to Limits of Disturbance Boundaries for Future Use.
6. Field Locate and Stake New Shared-Use Pathway, Trail and Native Plant Nursery locations and obtain City Engineer's Approval prior to Construction Work.
7. Once New Shared-Use Pathway and Trail Construction Work has been Completed, Feather Back Stockpiled Desert Pavement Surface Materials to Shared-Use Pathway and Trail edges per COS Std. Detail 2210 and obtain City Engineer's Approval.

SURFACE MATERIAL LEGEND

Existing Areas of Decomposed Granite within R/W and TCE areas. Apply Pre-Emergent Per COS Std Detl 2620 See Plans for Locations.

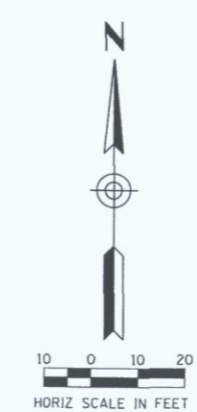
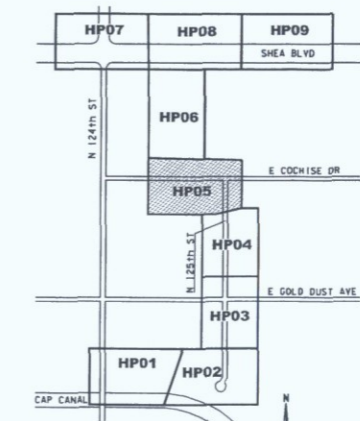
Existing Areas of 'Desert Pavement' within R/W and TCE areas. See Plans for Locations.

Notes:
1. See Sheet NPS01 for Complete Native Plant Inventory Survey Tables
2. See Sheet HP01 for Overall Surface Material Quantities

Contractor Notes:

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6. Once Completed, Contractor Shall Obtain City Engineer's Approval (Typical All Areas of Disturbance).

MATCH LINE SHEET HP04



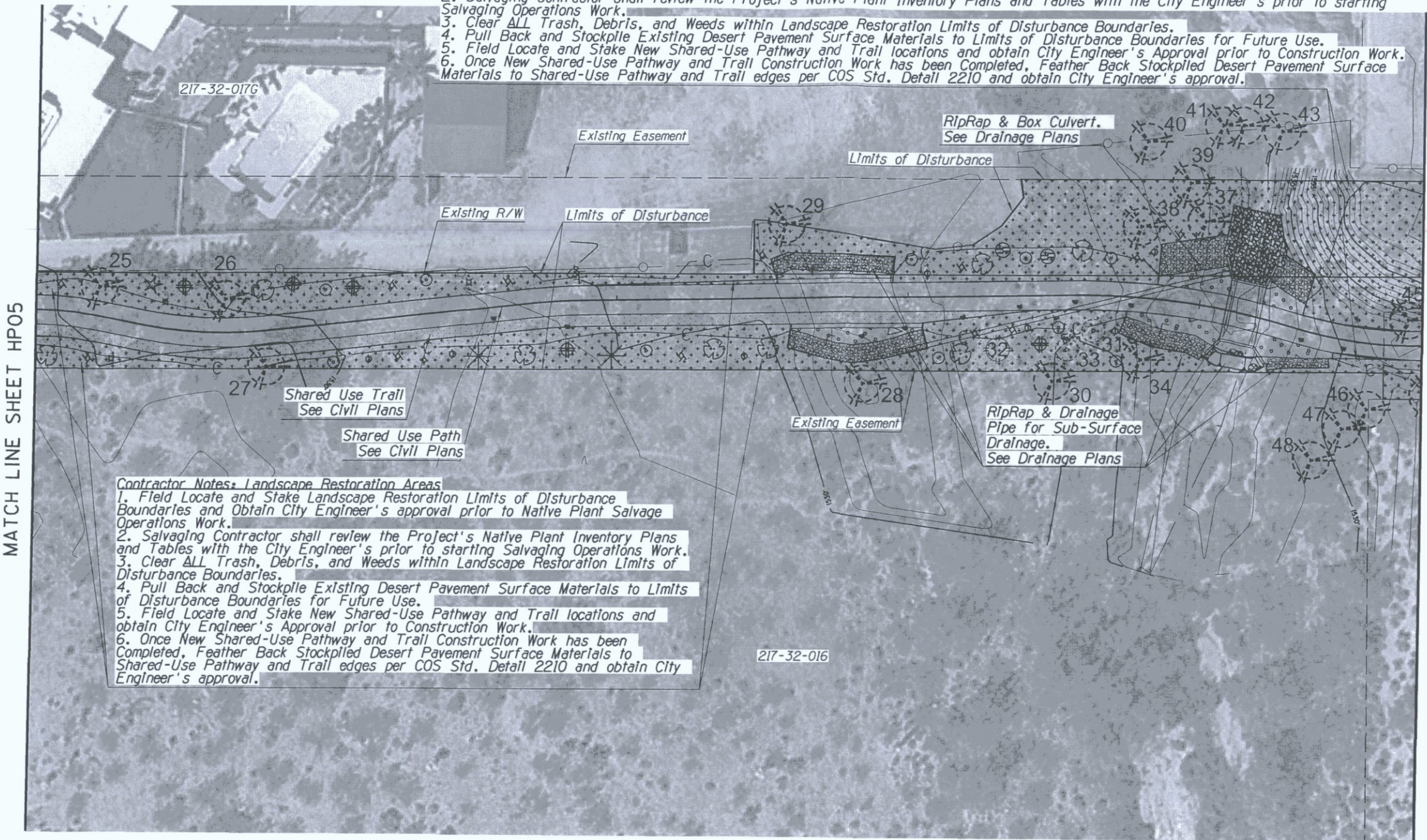
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DATE	REVISION	BY
ENGINEER		
PUBLIC WORKS		
CAPITAL PROJECT MANAGEMENT		
1447 E. INDIAN SCHOOL RD., SCOTTSDALE, ARIZONA 85251		
Expires: 9/30/2017		
SHEET TITLE		
HARDSCAPE PLAN		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
PROJECT NO.		SHEET
16BP020		HP05
95 OF 105		

XXX-XX

Contractor Notes: Landscape Restoration Areas

1. Field Locate and Stake Landscape Restoration Limits of Disturbance Boundaries and Obtain City Engineer's approval prior to Native Plant Salvage Operations Work.
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6. Once New Shared-Use Pathway and Trail Construction Work has been Completed, Feather Back Stockpiled Desert Pavement Surface Materials to Shared-Use Pathway and Trail edges per COS Std. Detail 2210 and obtain City Engineer's approval.



Contractor Notes: Landscape Restoration Areas

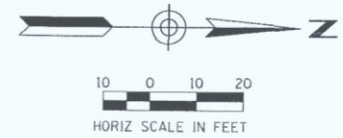
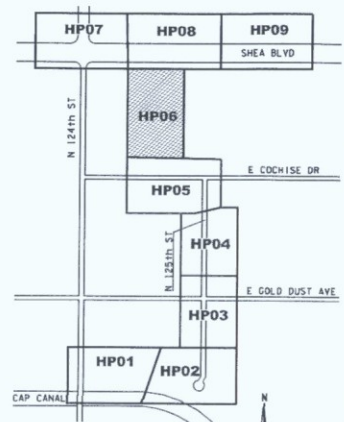
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2. Salvaging Contractor shall review the Project's Native Plant Inventory Plans and Tables with the City Engineer's prior to starting Salvaging Operations Work.
3. Clear ALL Trash, Debris, and Weeds within Landscape Restoration Limits of Disturbance Boundaries.
4. Pull Back and Stockpile Existing Desert Pavement Surface Materials to Limits of Disturbance Boundaries for Future Use.
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SURFACE MATERIAL LEGEND

- Existing Areas of Decomposed Granite within R/W and TCE areas. Apply Pre-Emergent Per COS Std Det 2620 See Plans for Locations.
- Existing Areas of 'Desert Pavement' within R/W and TCE areas. See Plans for Locations.

- Notes:**
1. See Sheet NPS01 for Complete Native Plant Inventory Survey Tables
 2. See Sheet HP01 for Overall Surface Material Quantities

- Contractor Notes:**
1. The Contractor shall take all Necessary Precautionary Measures to Protect Adjacent Properties from damage throughout Construction.
 2. The Contractor shall Verify and Accept all Site Conditions and Rough Grades prior to starting any Construction Work.
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 4. Once Completed, Contractor Shall Obtain City Engineer's Approval (Typical All Areas of Disturbance).



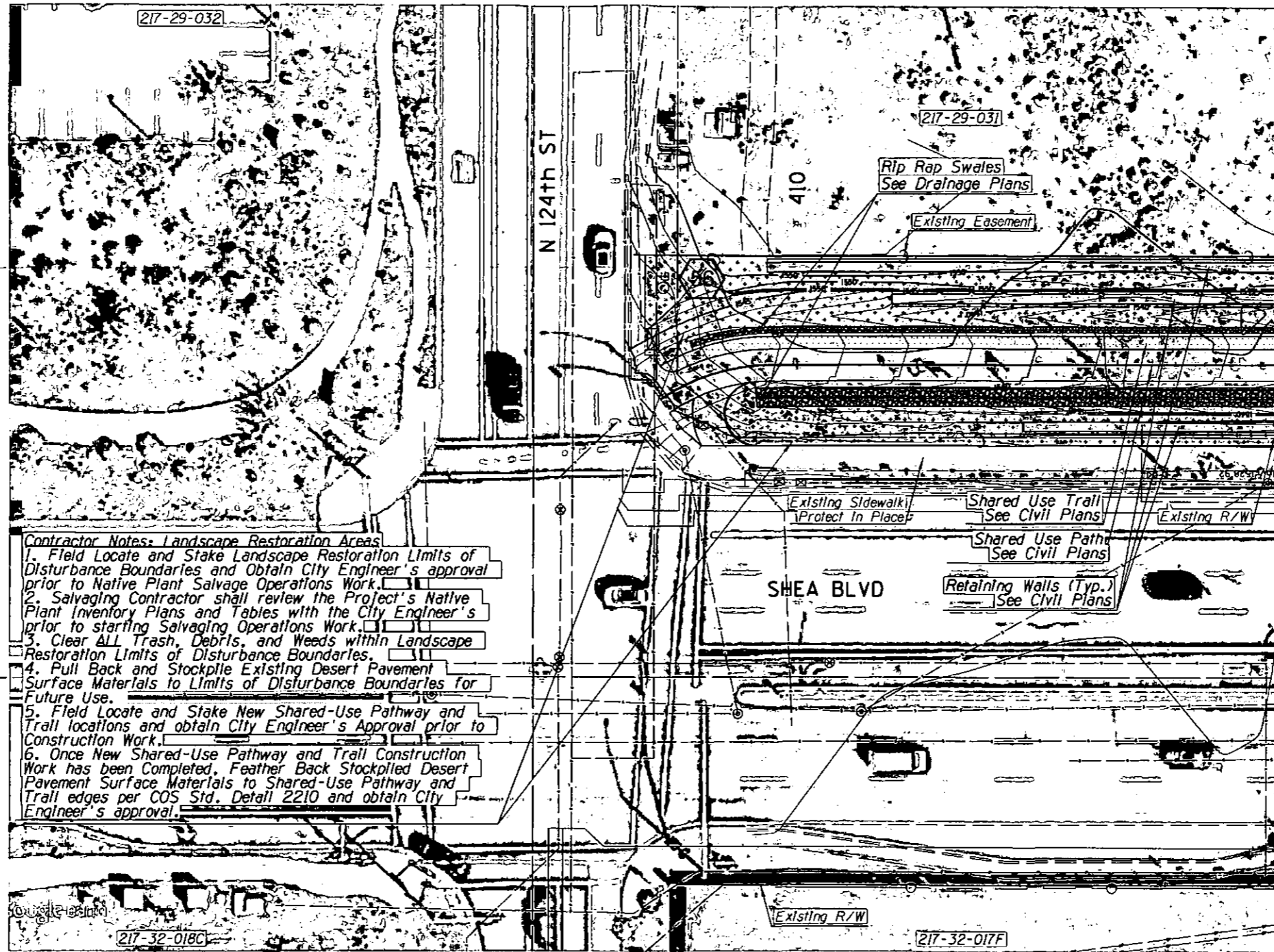
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 1-800-STAKE-IT
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DATE	REVISION	BY

ENGINEER	PUBLIC WORKS	
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	7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	

SHEET TITLE			
HARDSCAPE PLAN			
PROJECT TITLE			
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL			
SCALE	DESIGNED	DATE	BID NO.
HORIZ. 1"=20'	RC	1/16	16BP020
VERT.	DRAWN	AS-BUILT	PROJECT NO.
	J2		

XXX-XX



Contractor Notes- Landscape Restoration Areas

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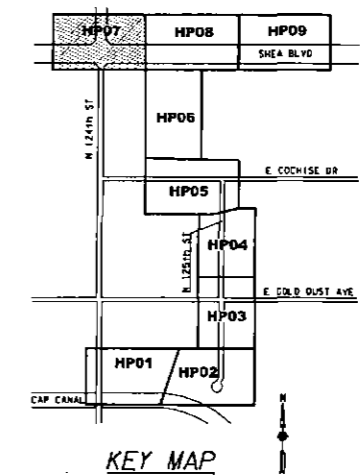
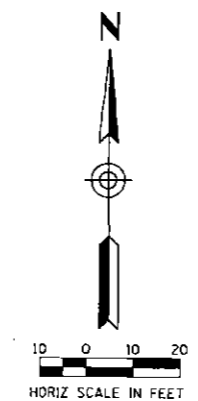
Notes:

1. See Sheet NPS01 for Complete Native Plant Inventory Survey Tables
2. See Sheet HPO1 for Overall Surface Material Quantities

MATCH LINE SHEET HPO8

Contractor Notes:

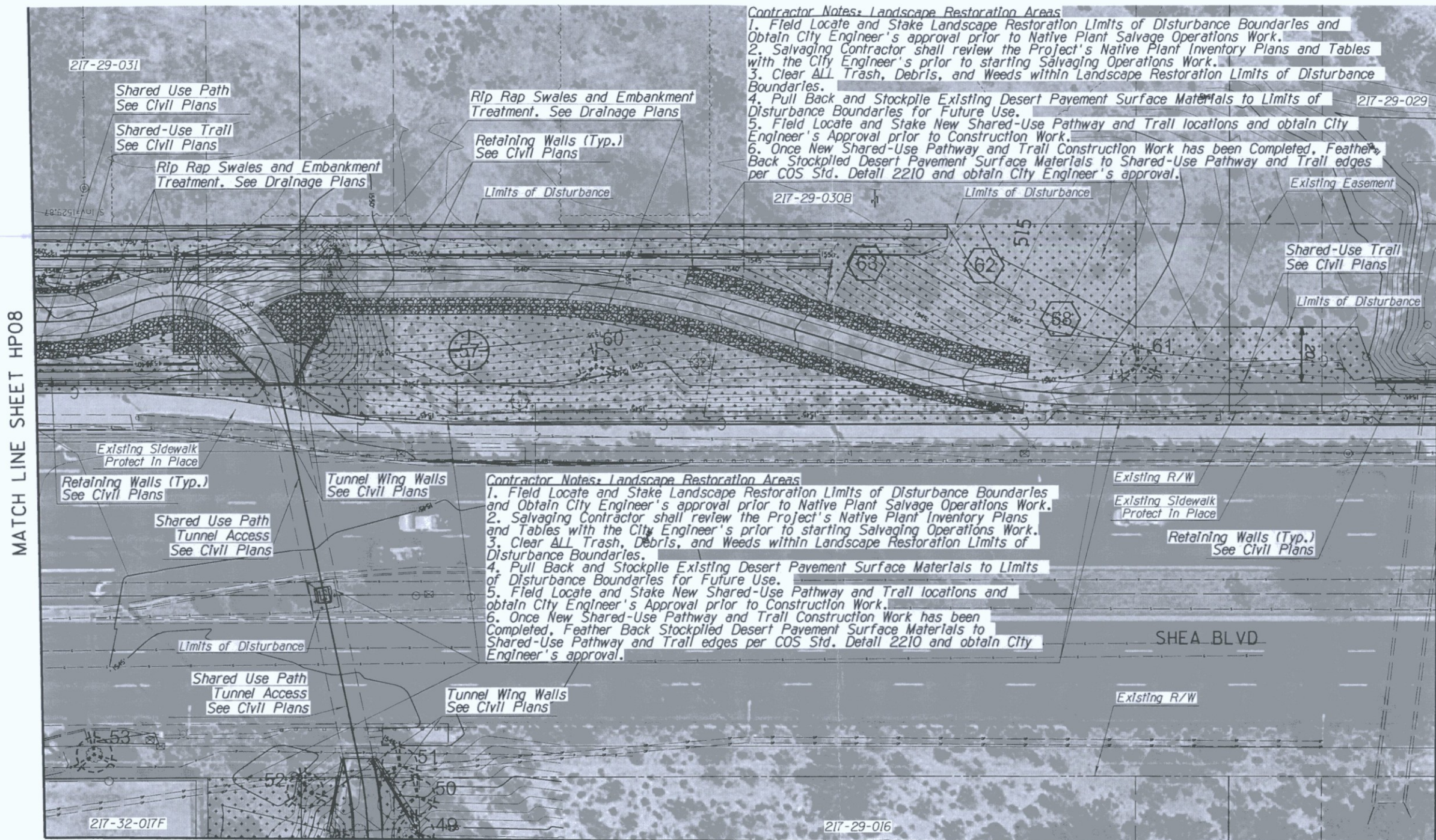
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SHEET TITLE		
HARDSCAPE PLAN		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	FC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
PROJECT NO.		SHT.
16BP020		HP07
97 OF 105		



XXX-XX



Contractor Notes: Landscape Restoration Areas
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SURFACE MATERIAL LEGEND

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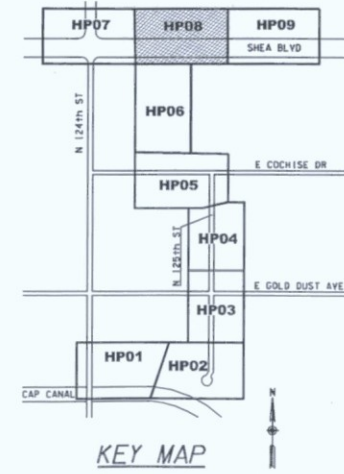
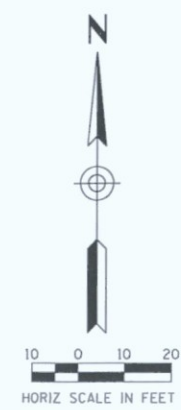
- Notes:**
1. See Sheet NPS01 for Complete Native Plant Inventory Survey Tables
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MATCH LINE SHEET HP06

MATCH LINE SHEET HP08

MATCH LINE SHEET HP09



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SHEET TITLE		
HARDSCAPE PLAN		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAIN J2	AS-BUILT
BIO NO. 16BP020		SHT. HP08
PROJECT NO.		98 OF 105

XXX-XX

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Retaining Walls (Typ.)
 See Civil Plans
 Limits of Disturbance

Shared Use Trail
 See Civil Plans

Shared Use Trail
 See Civil Plans

Limits of Disturbance
 Existing Easement

Existing Trail
 Protect In Place

Limits of Disturbance

Existing R/W

Existing R/W

Existing Sidewalk
 Protect In Place

Existing Sidewalk
 Protect In Place

Contractor Notes: Landscape Restoration Areas
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SHEA BLVD

217-32-015

Existing R/W

217-32-014B

SURFACE MATERIAL LEGEND



Existing Areas of Decomposed Granite within R/W and TCE areas. Apply Pre-Emergent Per COS Std Dtl 2620 See Plans for Locations.



Existing Areas of 'Desert Pavement' within R/W and TCE areas. See Plans for Locations.

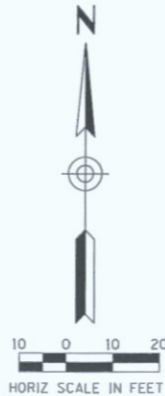
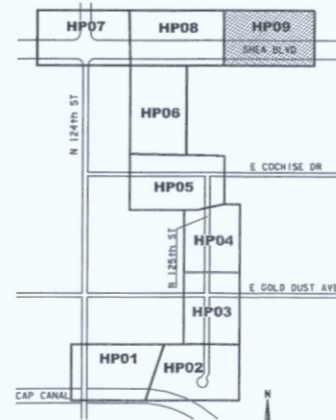
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MATCH LINE SHEET HP08



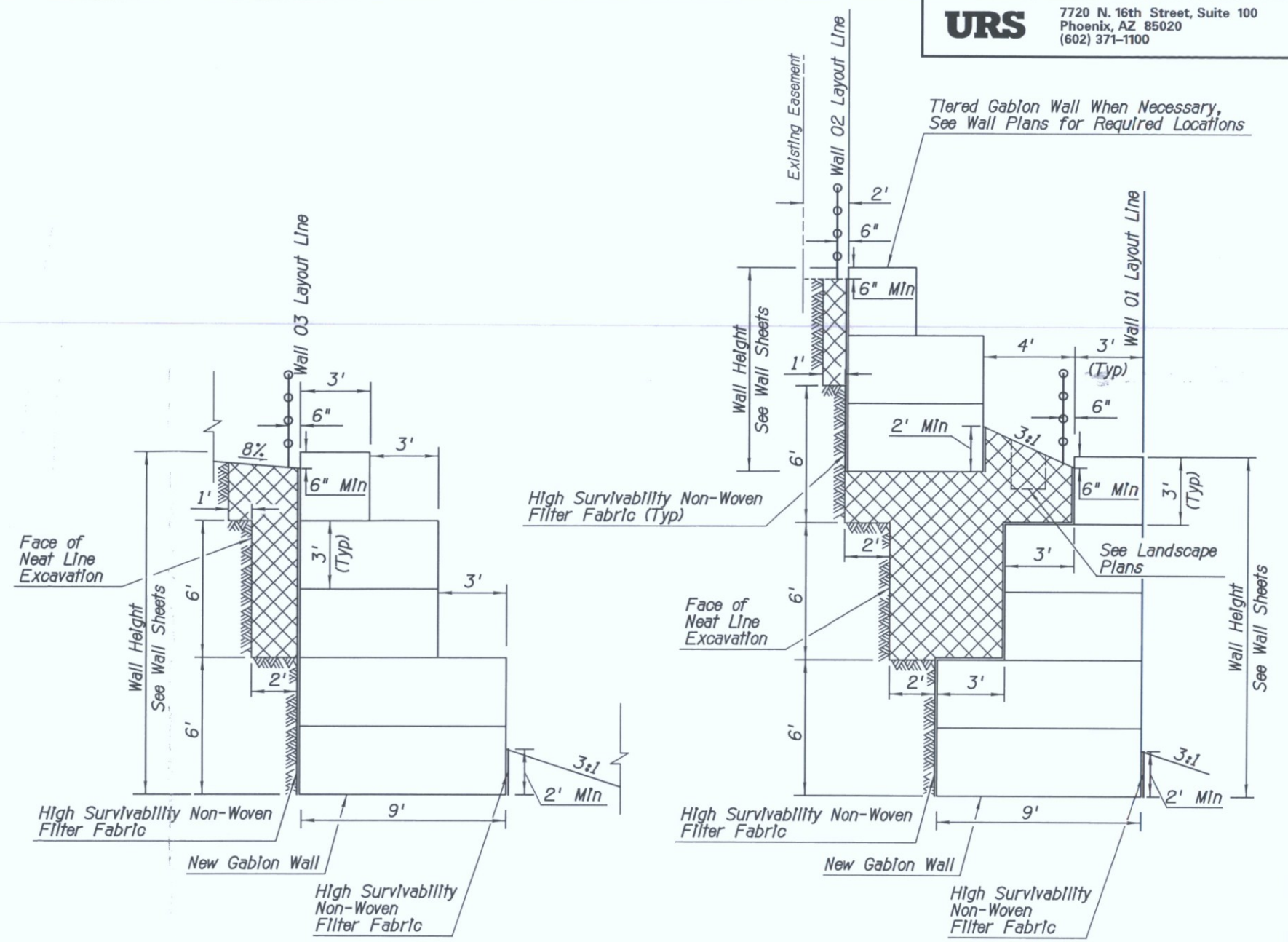
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PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE HARDSCAPE PLAN		
PROJECT TITLE SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
BID NO. 16BP020 PROJECT NO.		SHT. HP09 99 OF 105

XXX-XX

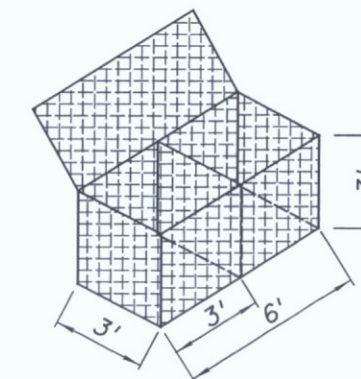
GENERAL CONSTRUCTION NOTES FOR RETAINING WALLS

1. Contractor shall exercise caution with wall stationing in relation with Path/Trail Cst & stationing. The wall stationing increases from left to right while looking at the exposed face of wall. Offsets are to the wall layout line.
2. Right of Way is limited to 2' behind Wall 02. Temporary shoring may be required for excavation and construction of some walls. The Contractor shall determine the exact limits and type of necessary shoring systems required. The shoring system shall be approved by the Engineer prior to installation.
3. For Gablon Walls the metallic-coated mesh and wire characteristics shall be in accordance with ASTM A975-11 Table 1, Mesh type 8x10.
4. High survivability non-woven filter fabric shall be installed at the face of each gablon wall as shown. The cost for the filter fabric is considered incidental to the cost of the gablon wall. No additional payment will be made for the filter fabric.
5. Lengths of wall segments are measured along the Wall Layout Line.
6. Contractor is responsible for maintaining temporary slopes in a safe manner.
7. Moisture may impact the cementitious nature of the existing soil. It is recommended that construction be performed during extended periods of dry weather.
8. Contractor to submit gablon wall product data to the Engineer for review and approval.



Gablon Detail

 Structural Backfill



Gablon Basket


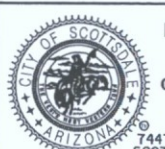
**STIPULATION SET
RETAIN FOR RECORDS**

APPROVED

5-12-16
DATE

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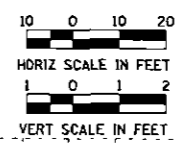
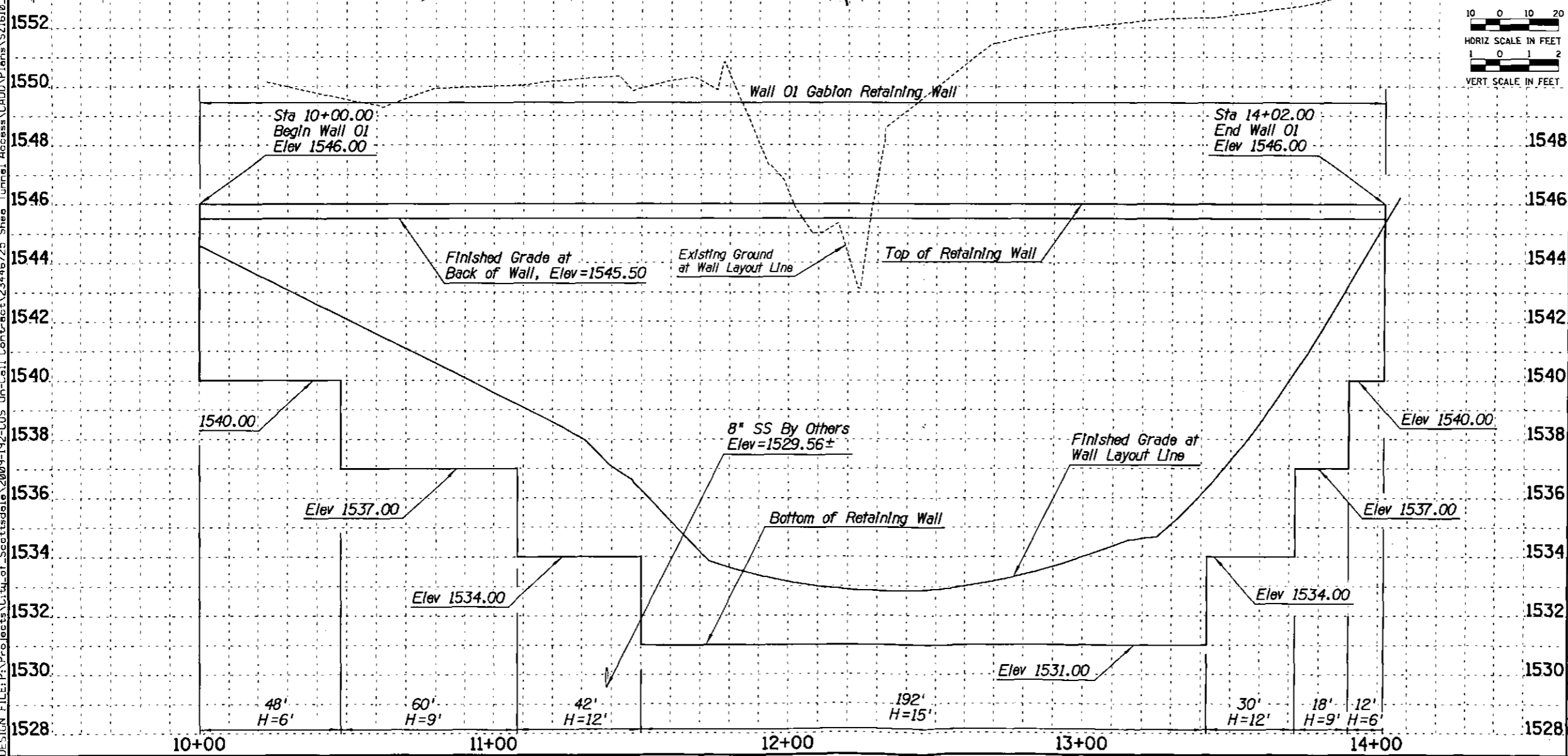
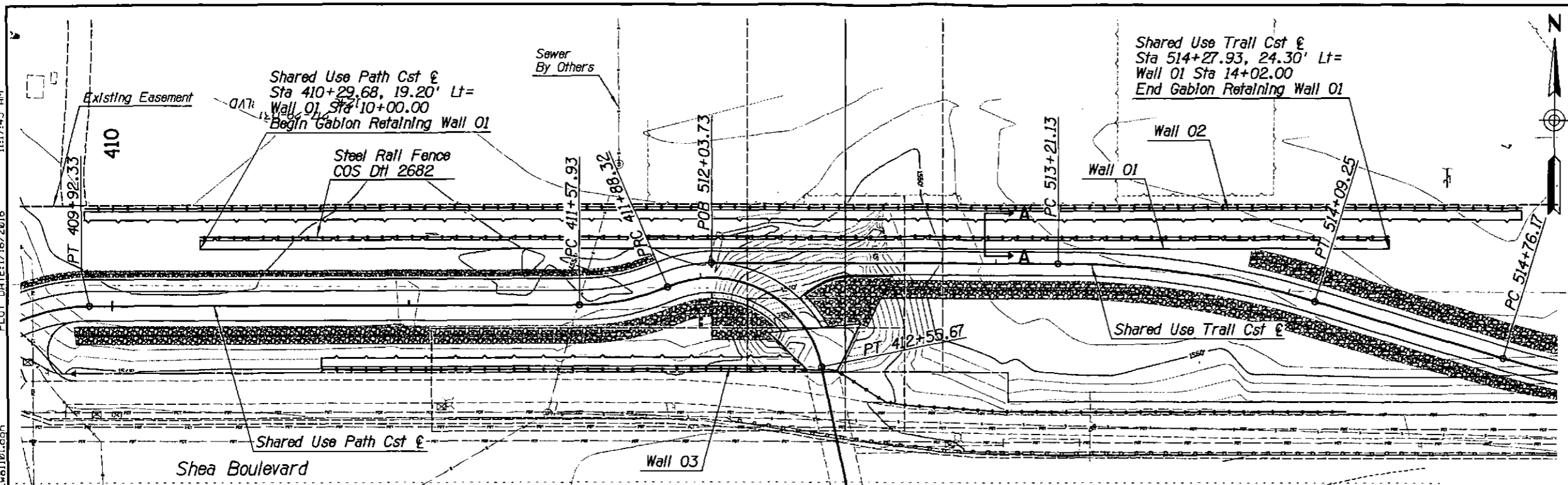
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PUBLIC WORKS		
CAPITAL PROJECT MANAGEMENT		
7447 E. INDIAN SCHOOL RD., SCOTTSDALE, ARIZONA 85251		
Expires 12/31/2018		
SHEET TITLE		
RETAINING WALL GENERAL NOTES		
PROJECT TITLE		
SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. N/A	EE	6/15
VERT. N/A	BP	AS-BUILT
BID NO.		DWG.
16BP020		S-1
PROJECT NO.		38 OF 105

Retaining Wall

DESIGN FILE: \$FILE\$ PLOT DATE: \$DATE\$ \$TIME\$

XXX-XX

11:17:45 AM
 PLOT DATE: 1/16/2016
 DESIGN FILE: P:\Projects\City_of_Scottsdale\2009-192-C05 On-Call Contract\23446725 Shea Tunnel Access\CAD\Plans\S21610_wal01.dgn



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 Phoenix, AZ 85020
 (602) 371-1100

Wall O1 Layout Line

Finished Grade at Back of Wall

Finished Grade at Wall Layout Line

SECTION A-A

NOTE:
 1. See Dwg S-1 for Additional Wall Information

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DATE	REVISION	BY

PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT
 7447 E. INDIAN SCHOOL RD.
 SCOTTSDALE, ARIZONA 85251

WALL O1

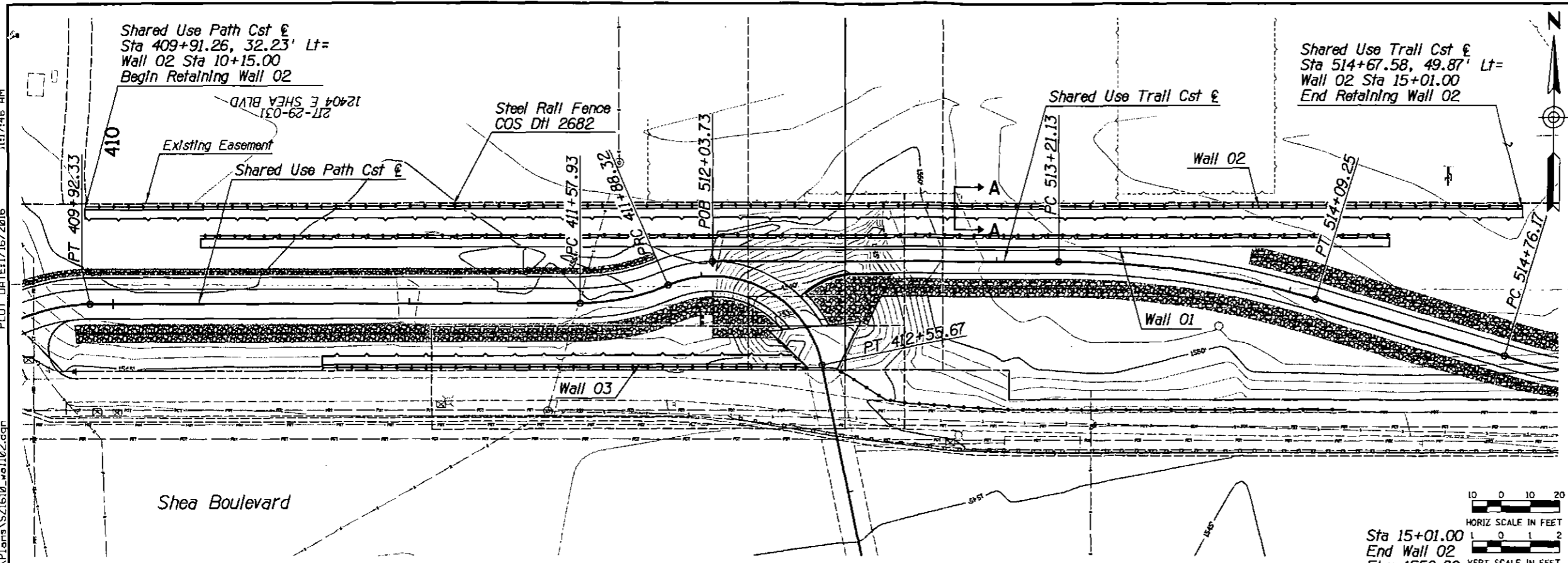
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SCALE HORIZ. 1"=20' VERT. 1"=2'	DESIGNED EE	DATE 6/15	BID NO. 16BP020
DRAWN BP	AS-BUILT	PROJECT NO.	DWG. S-2
			39 of 105

XXX-XX

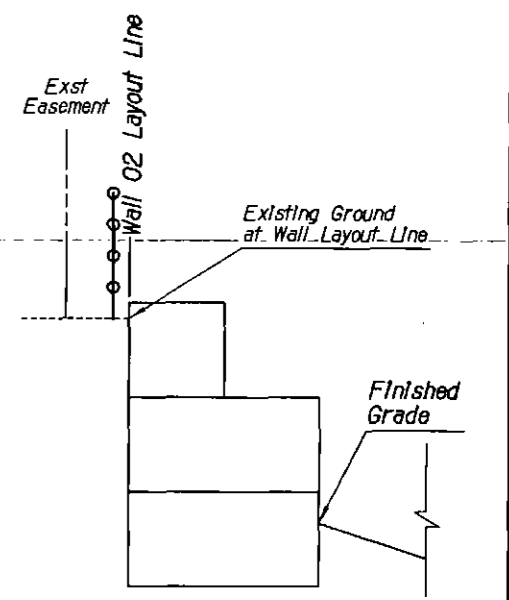
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 PLOT DATE: 1/16/2016 11:17:46 AM

Shared Use Path Cst @
 Sta 409+91.26, 32.23' Lt=
 Wall 02 Sta 10+15.00
 Begin Retaining Wall 02

Shared Use Trail Cst @
 Sta 514+67.58, 49.87' Lt=
 Wall 02 Sta 15+01.00
 End Retaining Wall 02

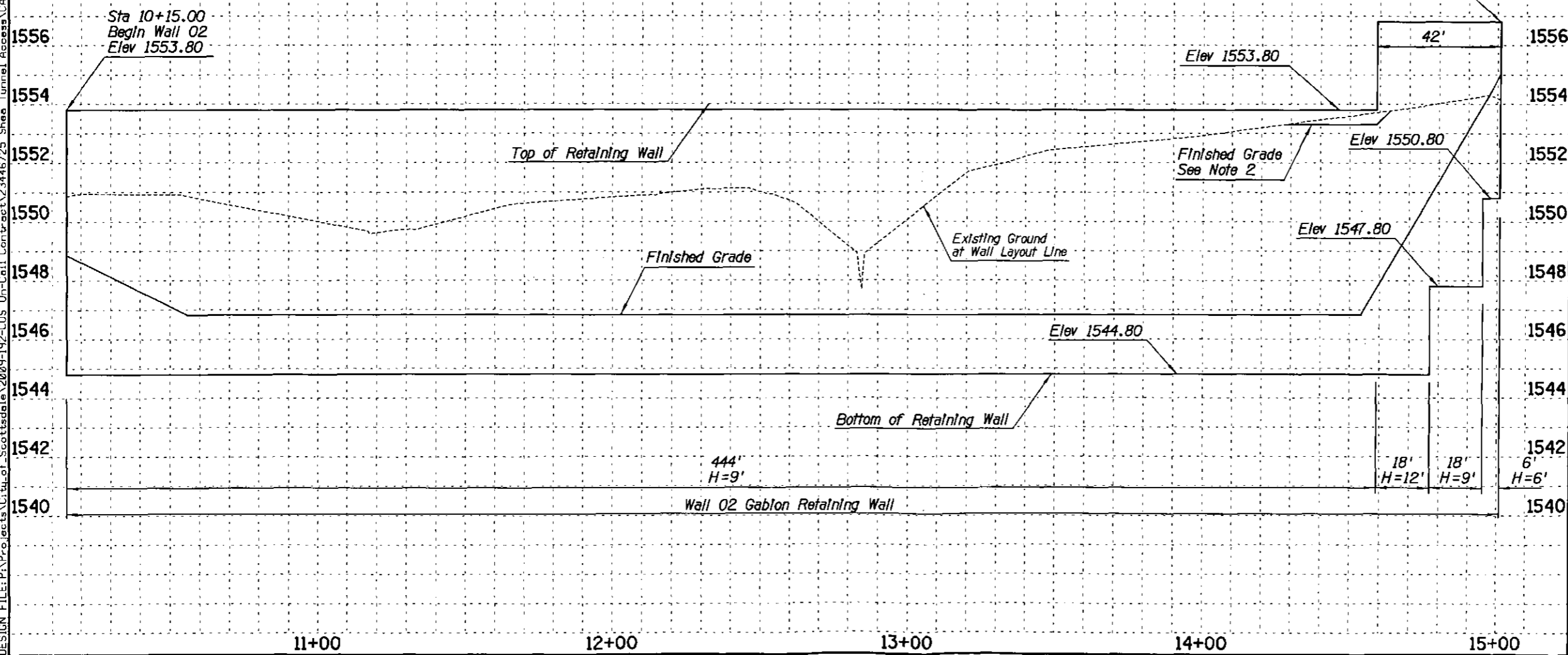


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 Phoenix, AZ 85020
 (602) 371-1100



SECTION A-A

Sta 15+01.00
 End Wall 02
 Elev 1556.80
 HORIZ SCALE IN FEET
 VERT SCALE IN FEET



- NOTES:**
- See Dwg S-1 for Additional Wall Information
 - Regrade between Wall 02 Layout Line and Existing Easement From Wall 02 Sta 14+28 to Sta 14+64 To ensure top 6" of Gablon Wall is exposed

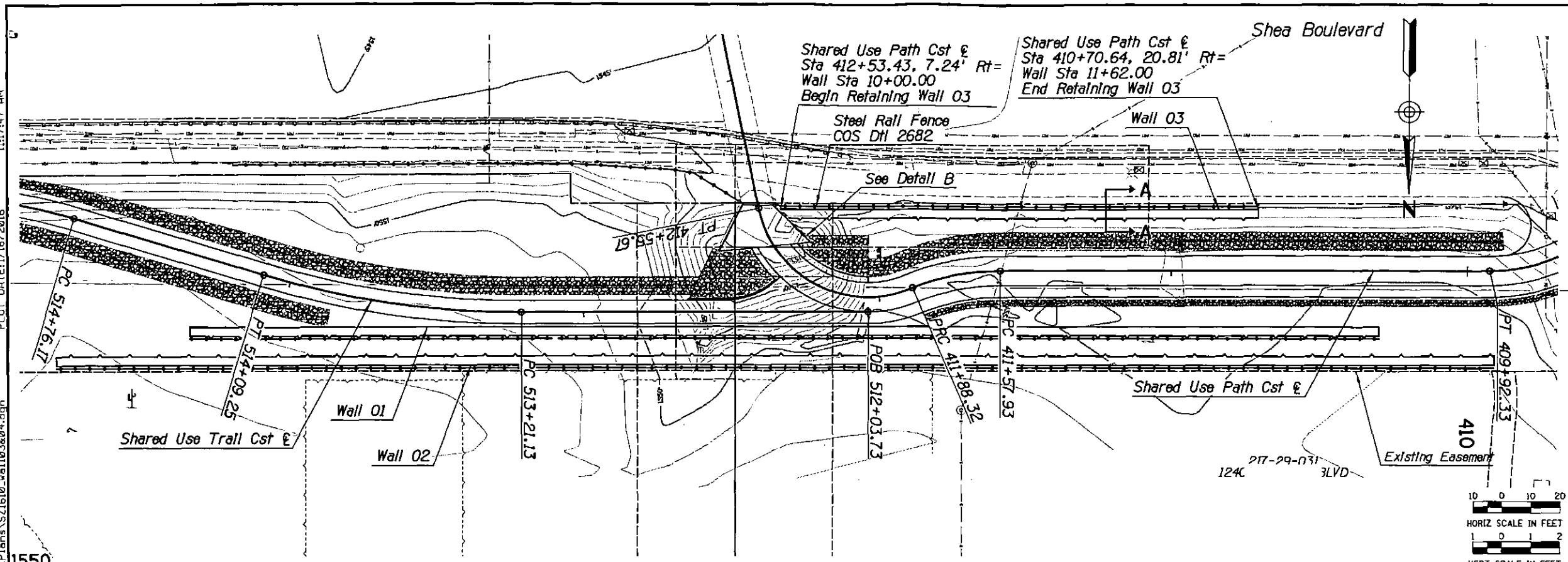
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DATE	REVISION	BY
PUBLIC WORKS		
CAPITAL PROJECT MANAGEMENT		
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		

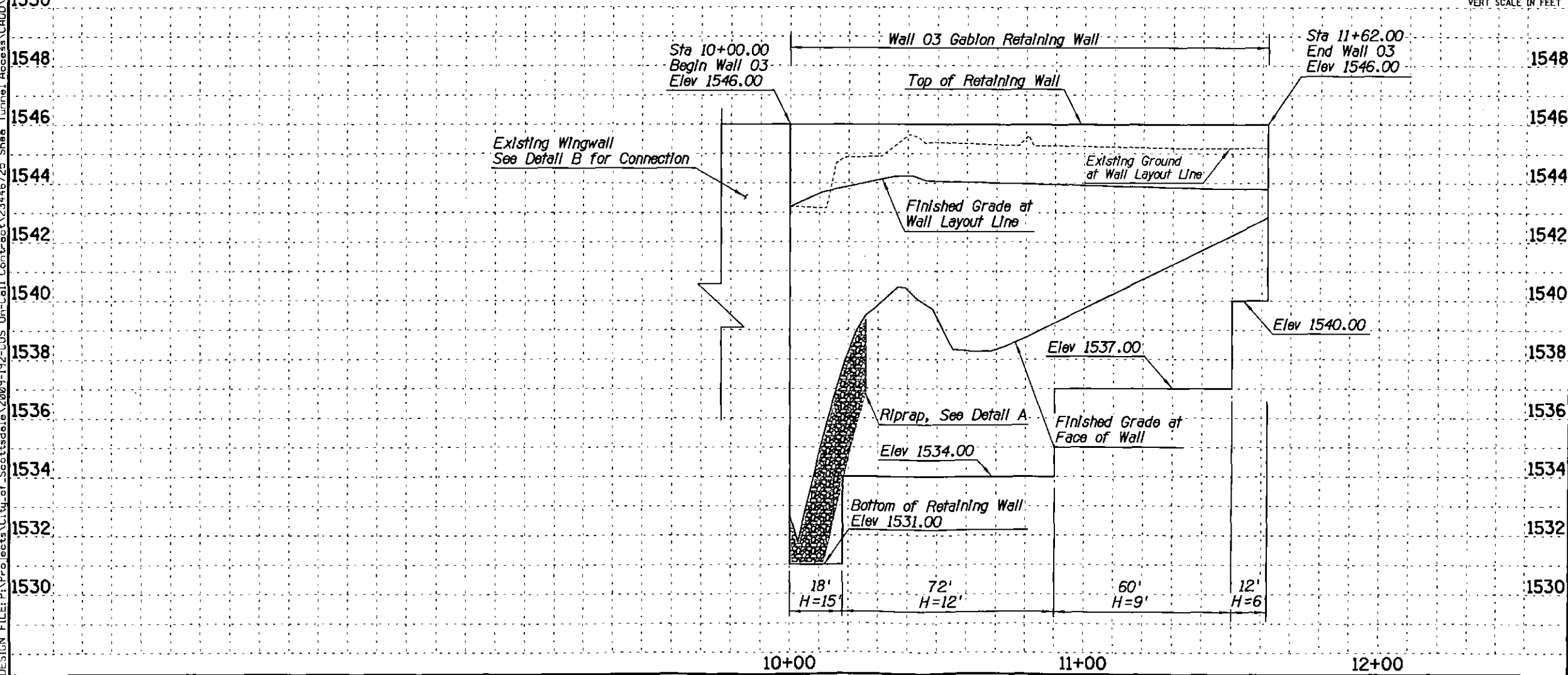
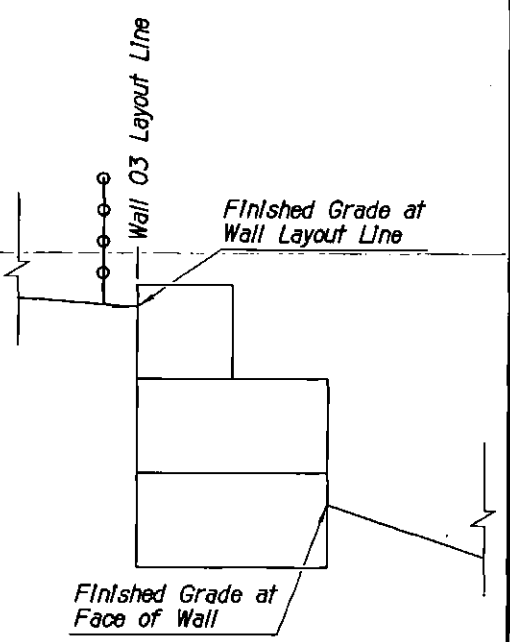
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SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL			
SCALE	DESIGNED	DATE	BID NO.
HORIZ. 1"=20'	EE	6/15	16BP020
VERT. 1"=2'	DRAWN	AS-BUILT	PROJECT NO.
	BP		40 of 105

XXX-XX

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SECTION A-A
 NOTE:
 1. See Dwg S-1 for Additional Wall Information

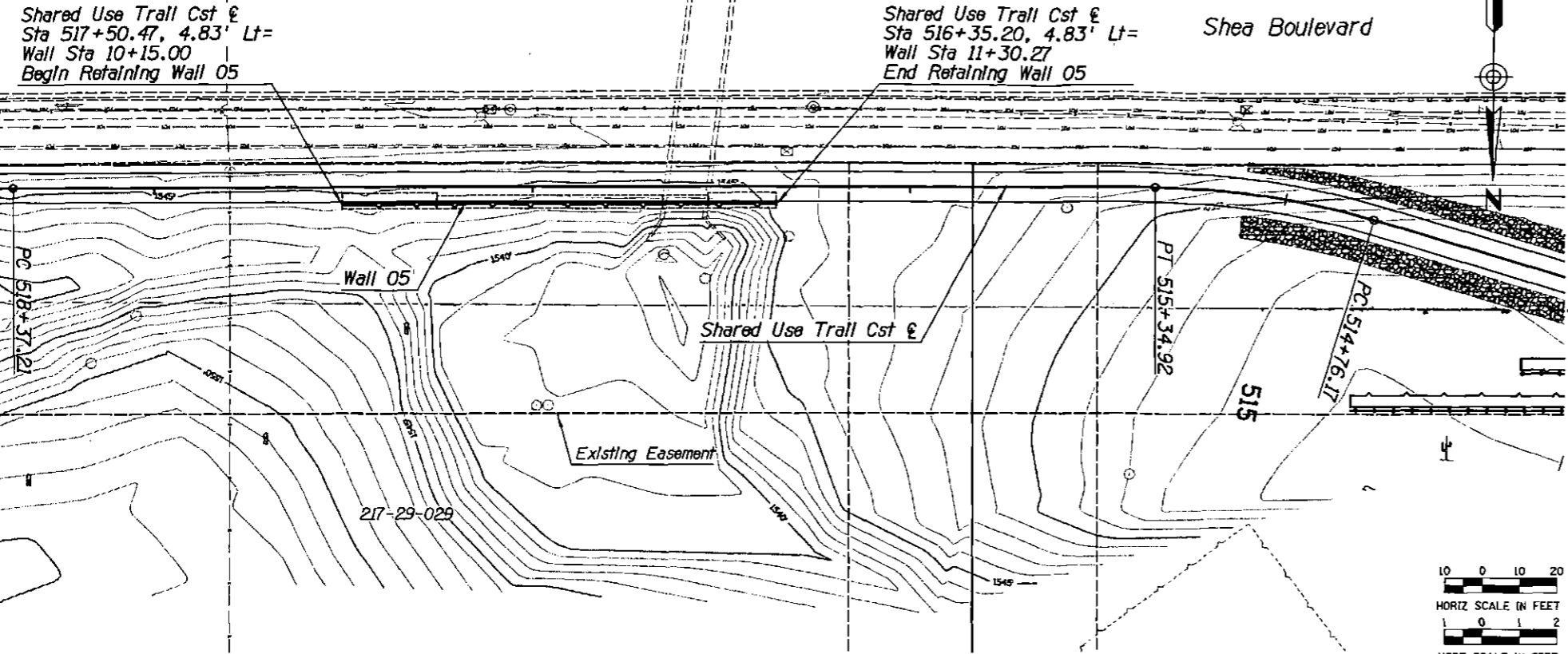
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DATE	REVISION	BY

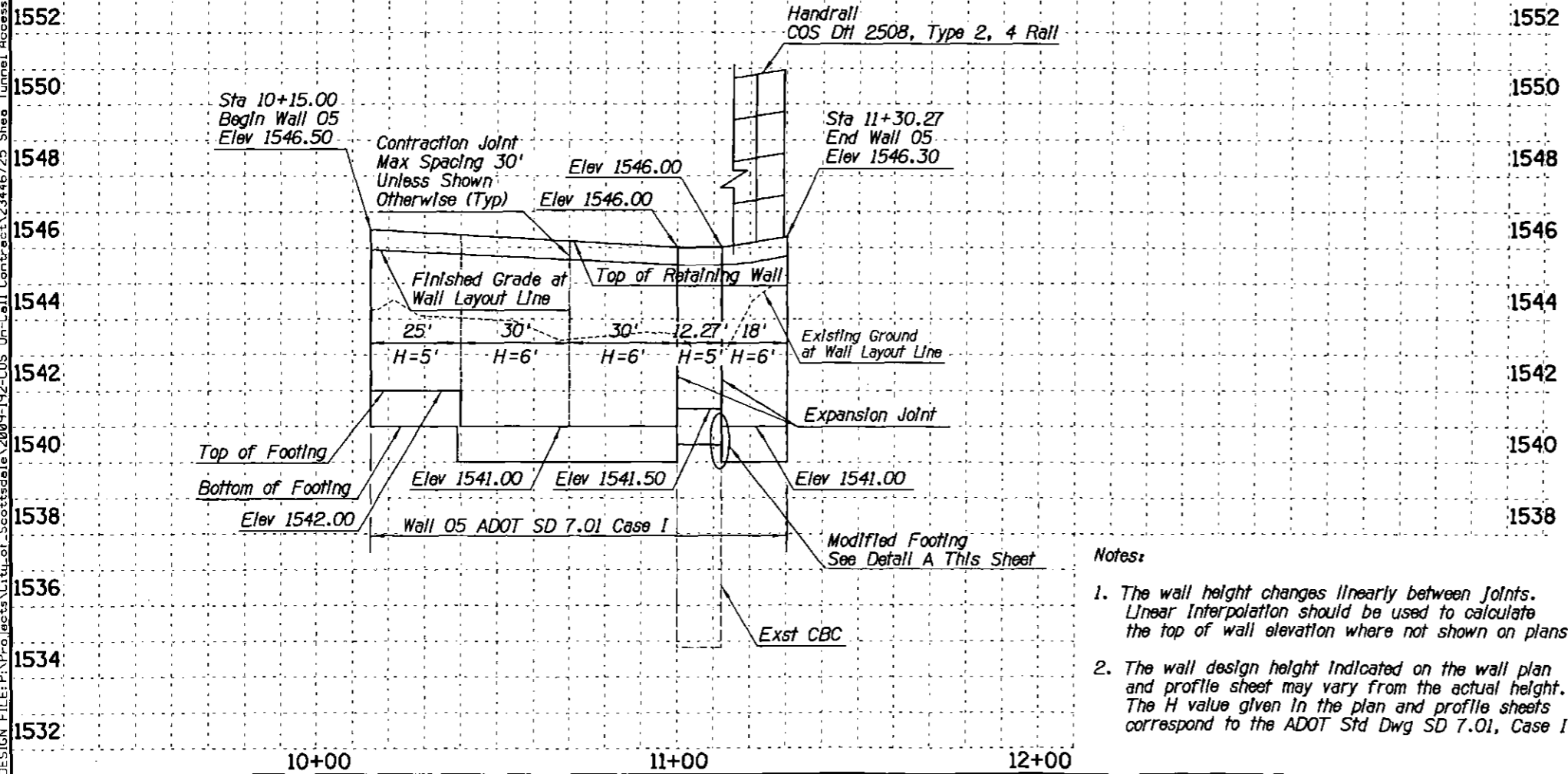
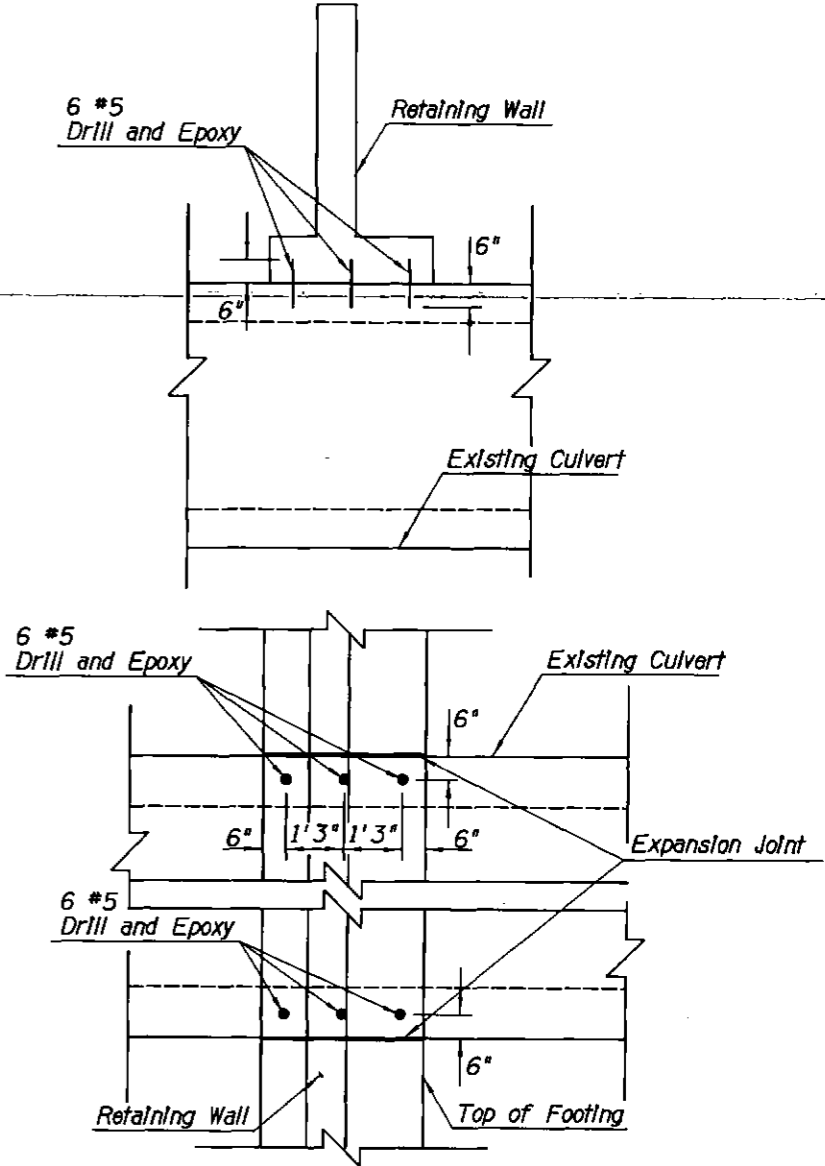
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PROJECT TITLE SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE HORIZ. 1"=20' VERT. 1"=2'	DESIGNED EE DRAWN BP	DATE 6/15 AS-BUILT
BID NO. 16BP020	PROJECT NO.	DWG. S-4 41 of 105

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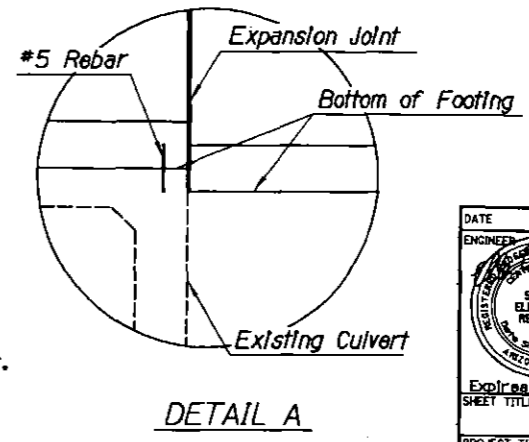
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 DESIGN FILE: P:\Projects\2009-192-C05 On-Call Contract\23446725 Shea Tunnel Access\CA00\Plans\21610_wal105.dgn



MODIFIED FOOTING



- Notes:**
- The wall height changes linearly between joints. Linear Interpolation should be used to calculate the top of wall elevation where not shown on plans.
 - The wall design height indicated on the wall plan and profile sheet may vary from the actual height. The H value given in the plan and profile sheets correspond to the ADOT Std Dwg SD 7.01, Case I.



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 Dial 811 OR 602-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
Exp/Iss 12/31/2018 WALL 05		
SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	EE	6/15
VERT. 1"=2'	DRAWN	AS-BUILT
PROJECT NO.		DWG. NO.
16BP020		S-5
PROJECT NO.		42 OF 105

XXX-XX

GENERAL ELECTRICAL NOTES

- ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (LATEST EDITION), FEDERAL, STATE AND LOCAL JURISDICTION CODES.
- ALL WORK SHALL BE DONE IN A NEAT, WORKMANLIKE, FINISHED AND SAFE MANNER, ACCORDING TO THE LATEST PUBLISHED NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION STANDARDS OF INSTALLATION, UNDER COMPETENT SUPERVISION.
- VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND ALL OTHER FACTORS WHICH MAY AFFECT THE EXECUTION OF THIS WORK, INCLUDE ALL RELATED COSTS IN THE INITIAL BID PROPOSAL.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL EXISTING UTILITIES AND AVOIDING DAMAGE TO SAME. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO UTILITIES CAUSED AS A RESULT OF HIS WORK. CALL (602) 263-1100 FOR BLUE STAKES. IRRIGATION LINES LESS THAN 2" WILL NOT BE MARKED AND SHALL BE REPAIRED IN KIND BY THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING WALKS, WALLS, DRIVES, CURBS, ETC. DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- PROPER PROTECTION OF THE CONSTRUCTION AREA FOR SAFETY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COVER ALL TRENCHES AT THE END OF EACH WORK DAY. BARRICADES SHALL BE INSTALLED AS DIRECTED BY THE OWNER OR THE PROJECT INSPECTOR. THE SITE AND ALL WORK SHALL CONFORM TO OSHA REQUIREMENTS.
- ALL EXISTING LANDSCAPE, HARDSCAPE AND SPRINKLER SYSTEMS DAMAGED OR DISTURBED DURING THE CONSTRUCTION OF THIS PROJECT BY THE CONTRACTOR SHALL BE REPLACED IN KIND.
- CONTRACTOR SHALL PAY FOR PERMITS AND INSPECTIONS AS MAY BE REQUIRED AND PROVIDE A CERTIFICATE OF INSPECTION TO THE OWNER.
- PROTECT ALL MATERIAL AND EQUIPMENT INSTALLED AGAINST DAMAGE BY OTHER TRADES, WEATHER CONDITIONS OR ANY OTHER CAUSES. EQUIPMENT FOUND DAMAGED OR IN OTHER THAN NEW CONDITION WILL BE REJECTED AS DEFECTIVE. ALL COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS, AND LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.
- LEAVE THE SITE CLEAN, REMOVE ALL DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT, WIRE, SCRAPS AND ALL MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THE WORK DURING CONSTRUCTION.
- IT IS THE OBLIGATION OF THE CONTRACTOR TO ORGANIZE HIS WORK SO THAT A COMPLETE ELECTRICAL INSTRUMENTATION, AND/OR CONTROL SYSTEM FOR THE FACILITY WILL BE PROVIDED AND SUPPORTED BY ACCURATE SHOP AND RECORD DRAWINGS, AND ALL O & M MANUALS.
- ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, BURIED 24" MINIMUM BELOW FINISHED GRADE, UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS.
- PROVIDE EMT INDOOR AND GRS OUTDOOR FOR ABOVE GROUND CONDUIT. WHERE METALLIC CONDUITS COME IN CONTACT WITH DIRT, THEY SHALL BE HALF LAP WRAPPED WITH SCOTCH 50 TAPE TO 12" AFG. FITTINGS SHALL BE STEEL, THREADED TYPE WITH INSULATED THROATS. SECURELY ATTACH ALL SURFACE MOUNTED CONDUIT EVERY 10 FEET AND WITHIN 3 FEET OF EACH JUNCTION BOX, PER NEC ARTICLE 344.30.
- MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS.
- ALL FEEDERS AND BRANCH CIRCUIT WIRE SHALL BE COPPER TYPE XHHW (75 DEGREE C) FOR BELOW GRADE INSTALLATIONS (AND CONDUIT RISERS) AND THHN/THWN (75 DEGREE C) FOR ABOVE GRADE INSTALLATIONS. MINIMUM SIZE SHALL BE #12 AWG, UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS. ALL WIRING SHALL BE IN CONDUIT. PER MARICOPA COUNTY AMENDMENT TO NEC ARTICLE 334.10 AND 334.12, MARICOPA COUNTY DOES NOT PERMIT TYPES NM, NMC, NMS (ROMEX) CABLES IN COMMERCIAL APPLICATIONS.
- A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR (BOND) SHALL BE INSTALLED WITHIN EACH RACEWAY PER NEC CODE.
- WHEN A PANEL IS SUPPLIED BY A FEEDER OR BRANCH CIRCUIT, ANY INSTALLED GROUNDING CONDUCTOR SHALL NOT BE CONNECTED TO THE EQUIPMENT GROUNDING CONDUCTOR (GEC) OR TO THE GROUNDING ELECTRODE(S) PER NEC ARTICLE 250.32(B).
- BOND ALL ENCLOSURES PER NEC ARTICLE 250.95.
- CONTRACTOR SHALL PLAN AND INSTALL WORK IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, ETC. NECESSARY FOR A COMPLETE AND WORKABLE ELECTRICAL SYSTEM WHETHER OR NOT THESE ITEMS ARE SPECIFICALLY NOTED ON THESE DRAWINGS. INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS, NOR MENTIONED IN SPECIFICATIONS THAT CAN BE LEGITIMATELY AND REASONABLY INFERRED TO BELONG TO THE WORK DESCRIBED OR BE NECESSARY IN GOOD PRACTICE TO PROVIDE A COMPLETE SYSTEM, SHALL BE FURNISHED AND INSTALLED AS THOUGH ITEMIZED HERE IN EVERY DETAIL.
- CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE ALL LABOR, MATERIAL, TRENCHING, CONDUIT, TRANSFORMER PAD AND OTHER REQUIRED EQUIPMENT PER UTILITY COMPANY PLANS AND SPECIFICATIONS NECESSARY FOR A COMPLETE UNDERGROUND CONDUIT SYSTEM FROM THE UTILITY POINT OF SERVICE TO THE UTILITY CO. TRANSFORMER AND FROM THE UTILITY CO. TRANSFORMER TO THE ELECTRICAL SERVICE ENTRANCE SECTION.
- ALL TRENCHING, CONDUITS, ETC. SHALL BE ROUTED AND INSTALLED IN SUCH A MANNER THAT WILL NOT DAMAGE EXISTING FACILITIES. SHOULD DAMAGE OCCUR, IT WILL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR DAMAGE TO THE SATISFACTION OF THE OWNER OR INSPECTOR.
- ALL CONDUIT RUNS SHOWN ON THIS PLAN ARE SCHEMATIC IN NATURE. THE CONTRACTOR SHALL MAKE SURE THAT ALL CONDUIT, ETC. FALLS WITHIN THE CONSTRUCTION AREA/RIGHT OF WAY. (THIS INCLUDES MAINTAINING ALL REQUIRED CLEARANCES.)
- WHEN CROSSING PATHWAYS OR SIDEWALKS, CONTRACTOR SHALL BORE UNDER EXISTING CONCRETE WALKS AND SAWCUT ASPHALT WALKS. ASPHALT WALKS SHALL BE REPLACED IN KIND.
- CONTRACTOR SHALL GUARANTEE WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS, USUAL WEAR EXPECTED, AND SHOULD ANY SUCH DEFECTS DEVELOP WITHIN A PERIOD OF ONE YEAR ACCEPTANCE OF THE PROJECT BY THE OWNER, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE ITEMS AND DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE WHATSOEVER TO THE OWNER.
- CONTRACTOR SHALL IDENTIFY SERVICE ENTRANCE SECTION MAIN SERVICE DISCONNECT(S) WITH 3/32-INCH THICK LAMINATED PHENOLIC TYPE NAMEPLATES WITH 1/4-INCH MINIMUM HEIGHT LETTERS. NAMEPLATE TO BE BLACK MATTE FINISH SURFACE WITH WHITE LETTER ENGRAVING. ATTACH NAMEPLATE TO THE OUTSIDE PANEL FACE WITH TWO STAINLESS STEEL SELF-TAPPING SCREWS. NAMEPLATE SHALL READ "SERVICE DISCONNECT" PER NEC ARTICLE 230.70(B).
- ALL CIRCUITS SHALL BE LEGIBLY IDENTIFIED AT THE PANEL, JUNCTION BOXES AND AT ALL EQUIPMENT IN A PERMANENT MANNER (I.E. ETCHED PLATES, CONDUCTOR TAG, PERMANENT MARKER, ETC.). THE LABELING SHALL INCLUDE PANEL CIRCUIT NUMBER, "TO" AND "FROM" IDENTIFICATION, AND MARKED "SPARE" WHERE APPLICABLE.
- CONTRACTOR SHALL TEST ELECTRICAL SYSTEM FOR SHORT CIRCUITS AND MEGGER TEST FEEDERS AND BRANCH CIRCUIT WIRING. CONTRACTOR SHALL INSURE LOW IMPEDANCE GROUND PATH SYSTEM.
- CONTRACTOR SHALL PERFORM HIGH POTENTIAL (HIPOT) TESTING WHEN REQUIRED BY LOCAL JURISDICTION OR OWNER.








- CONTRACTOR SHALL PROVIDE A GROUND-FAULT COORDINATION STUDY AND PERFORM RECOMMENDED SETTINGS ON OVERCURRENT PROTECTION DEVICES, AS NEEDED OR WHEN REQUIRED BY LOCAL JURISDICTION OR OWNER. PROVIDE LABELS ON EQUIPMENT INDICATING SETTINGS.
- CONTRACTOR SHALL PROVIDE AN ARC-FLASH STUDY WHEN REQUIRED BY LOCAL JURISDICTION OR OWNER. PROVIDE ALL APPLICABLE LABELS ON EQUIPMENT AFTER STUDY IS COMPLETED.
- ALL CONDUIT AND J-BOXES SHOWN SHALL BE CONCEALED WHEN POSSIBLE. WHEN NOT POSSIBLE, CONDUIT AND J-BOXES MAY BE SURFACE MOUNTED WITH PERMISSION OF THE OWNER OR OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL COORDINATE ALL EQUIPMENT CONNECTIONS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL FUSED DISCONNECT SWITCHES AND CONTROLS IF OVERCURRENT PROTECTION OR CONTROLS IS NOT INTEGRAL WITH UNITS.
- ALL EQUIPMENT SHALL BE FUSE SIZED PER MANUFACTURERS RECOMMENDATIONS AND U.L. APPROVAL.
- ELECTRICAL DEVICES, DISCONNECT SWITCHES, ETC., SHALL BE SUPPORTED INDEPENDENT OF AND ISOLATED FROM EQUIPMENT VIBRATIONS.
- FULL LOAD AMPS (FLA) SIZES, AS NOTED IN THESE DRAWINGS, ARE BASED ON SPECIFIED EQUIPMENT DATA. CONTRACTOR SHALL VERIFY NAMEPLATE FLA OF EQUIPMENT SUPPLIED AND COORDINATE ACCORDINGLY PER EQUIPMENT SUPPLIERS RECOMMENDATIONS.
- ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE NEMA-3R OR NEMA-4 ENCLOSURES.
- CONDUITS OR RACEWAYS ROUTED FROM INDOORS TO OUTDOORS OR AS DESCRIBED IN NEC 300.7(A), SHALL BE SEALED WITH A PLIABLE SEALING COMPOUND AT A CONDUIT BODY OR AT A JUNCTION BOX BEFORE THE CONDUIT ENTERS THE COLDER ENVIRONMENT.
- CONDUITS OR RACEWAYS INSTALLED IN AREAS WHERE ELEVATION CHANGES MAY CAUSE WATER OR MOISTURE TO ENTER THE ELECTRICAL EQUIPMENT THROUGH THE CONDUIT SHALL BE SEALED WITH A HERMETIC CONDUIT SEAL AT BOTH ENDS OF THE CONDUIT OR RACEWAY.
- INSTALL FIRE SEALS IN ALL CONDUITS PENETRATING THE FIRE WALL TO MAINTAIN THE FIRE RESISTANCE RATING OF THE WALL AS REQUIRED BY NEC 300.21.
- ALL POLE LIGHTS SHALL BE PROVIDED WITH A TWO POLE FUSE HOLDER BUSSMANN #HEX OR A SINGLE POLE FUSE HOLDER BUSSMANN #HEB OR EQUAL FOR INLINE FUSING, PROVIDE 5A FUSING IN FUSEHOLDER.
- PRIOR TO POURING THE POLE BASES OR COVERING ANY ELECTRICAL CONDUITS, CONTACT THE INSPECTION DEPARTMENT 24 HOURS IN ADVANCE FOR APPROVAL.
- MATERIALS SHALL BE NEW AND OF THE BEST QUALITY WITH MANUFACTURER'S NAME PRINTED THEREON. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH NEMA, ANSI, UNDERWRITER'S LABORATORY OR OTHER APPLICABLE STANDARDS AND RATED FOR HEAVY DUTY SERVICE.
- ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE. ALL 15 AND 20 AMP, 125 AND 250 VOLT, NONLOCKING RECEPTACLES INSTALLED OUTDOORS SHALL BE LISTED WEATHER-RESISTANT TYPE. ALL WEATHERPROOF WHILE IN-USE RECEPTACLE COVERS SHALL BE METAL.
- SELECTION OF MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE DRAWINGS AND/OR SPECIFICATIONS. THE USE OF MANUFACTURER'S NAME, MODEL, AND NUMBER IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, USEFULNESS AND BID PRICE. CONTRACTOR SHALL SUBMIT TO THE OWNER OR OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL (PRIOR TO ORDERING MATERIALS) COPIES OF EQUIPMENT SHOP DRAWINGS AS FOLLOWS: 1) LIGHT FIXTURES, 2) POLES, 3) POLE BASES, 4) SERVICE ENTRANCE SECTION, 5) ELECTRICAL EQUIPMENT, 6) DISCONNECT SWITCHES, 7) TIME CLOCKS AND OTHER CONTROLS, 8) LIGHTING CONTACTORS AND 9) PULL BOXES. AT THE TIME OF EACH SUBMITTAL, THE CONTRACTOR SHALL DEFINE AND DELINEATE IN WRITING ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS. THE REVIEW WILL BE ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE WORK AND FOR COMPLIANCE WITH THE INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS. THE REVIEW OF A SPECIFIED ITEM, AS SUCH, WILL NOT INDICATE REVIEW OF THE ASSEMBLY IN WHICH THE ITEM FUNCTIONS. REVIEW BY THE OWNER OR OWNER'S REPRESENTATIVE WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS IN THE SUBMITTALS NOR FROM HIS RESPONSIBILITY FOR COMPLYING WITH THE CONTRACT DOCUMENTS.
- THE SUBMITTALS SHALL BE NEATLY GROUPED AND ORGANIZED. PERTINENT INFORMATION SHALL BE HIGHLIGHTED, AND THE SPECIFIC PRODUCT SHALL BE IDENTIFIED. ALL SUBMITTALS SHALL BE COMPLETE, AND PRESENTED IN ONE PACKAGE. THE SUBMITTAL SHALL INCLUDE A COMPLETE LIST OF THE EQUIPMENT AND MATERIALS, INCLUDING THE MANUFACTURER'S NAME, PRODUCT SPECIFICATION, DESCRIPTIVE DATA, TECHNICAL LITERATURE, PERFORMANCE CHARTS, CATALOG CUTS, INSTALLATION INSTRUCTIONS, AND SPARE PART RECOMMENDATIONS FOR EACH DIFFERENT ITEM OF THE EQUIPMENT SPECIFIED.

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CONSTRUCTION NOTES

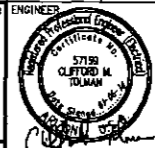
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- 100 AMP, 120/240V, 1Ø, 3W, METERED ELECTRIC PEDESTAL (SEE DETAILS ON SHEET SE3.2).
- #5 CONCRETE PULL BOX, SEE DETAIL 3 ON SHEET SE3.2.
- AREA LIGHT SEE DETAIL 1 SHEET SE3.1.
- CEILING MOUNTED TUNNEL LIGHT SEE DETAIL 2 SHEET SE3.1.
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- REFER TO SHEET 3.1 DETAIL 2 FOR CONDUIT ROUTING.
- 1" CONDUIT WITH PULL ROPE AS SPARE.
- ROUTE CONDUIT AROUND LIGHT WELL OPENING.

LEGEND

-  UNDERGROUND CONDUIT
-  ABOVE GROUND CONDUIT
-  UTILITY COMPANY TRANSFORMER
-  ELECTRICAL SERVICE
-  PULL BOX
-  AREA LIGHT
-  CEILING MOUNTED TUNNEL LIGHT

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PHONE: 480.497.5829
FAX: 480.497.5807
www.wrighteng.com
Wright Project # 14324

DATE	REVISION	BY

ENGINEER:  57190
CLIFFORD M. TOLMAN
P.E.
ARIZONA
2-31-17

PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT
7447 E. INDIAN SCHOOL RD.
SCOTTSDALE, ARIZONA 85251

SHEET TITLE: ELECTRICAL COVER SHEET

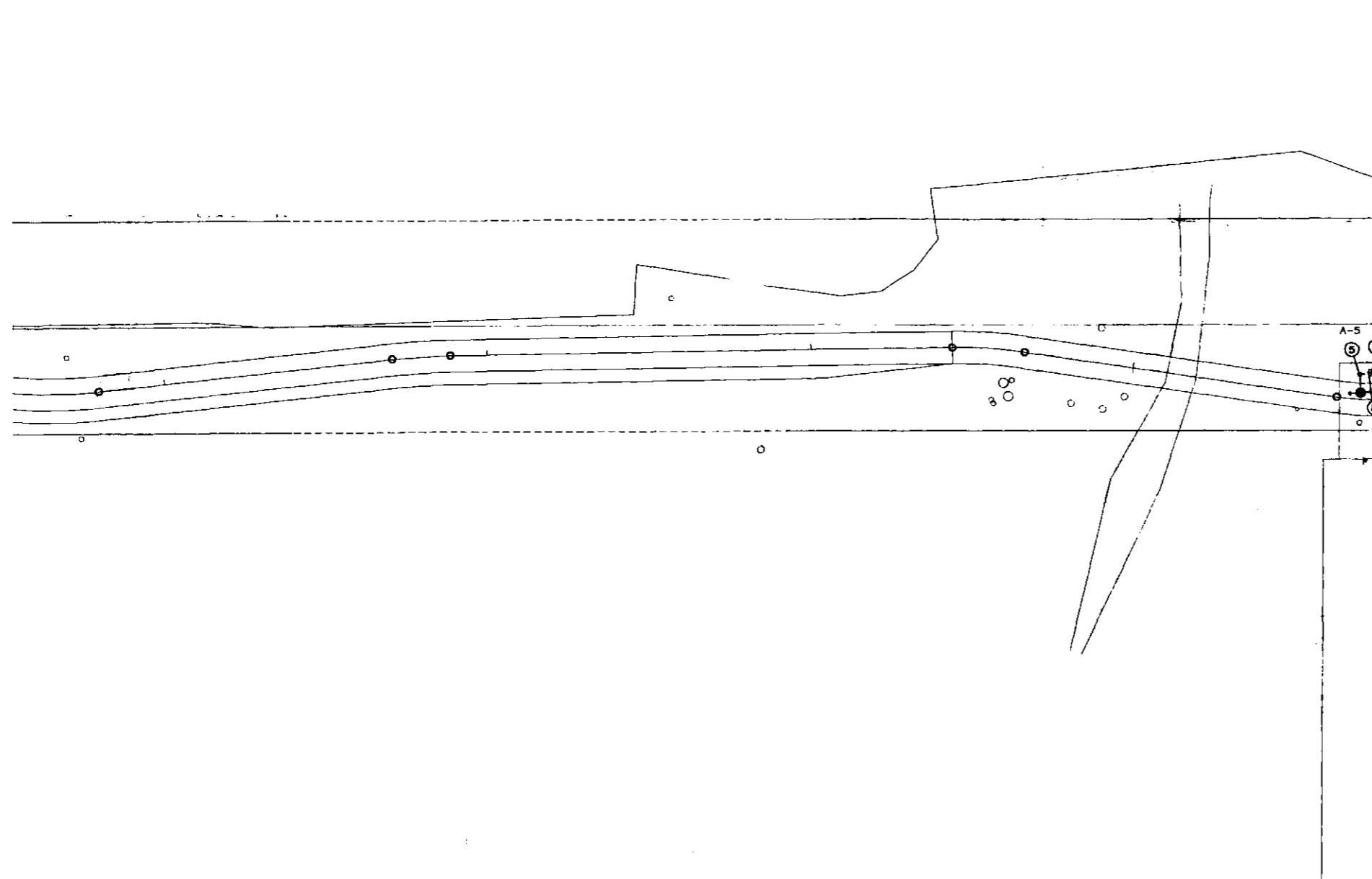
PROJECT TITLE: SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL

SCALE	DESIGNED	DATE	BID NO.	SHT.
HORIZ.	DVG	1/16		SEL1
VERT.	DVG	AS-BUILT	PROJECT NO. 410-TB02A-56047	100 OF 105

ARIZONA BLUE STAKE
CALL FOR BIDDING DATES BEFORE 100.010
Dial 811 or 602-263-1100
1-800-STAKE-11
(OUTSIDE MARICOPA COUNTY)

Electrical

XXX-XX



CONSTRUCTION NOTES

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- ④ #5 CONCRETE PULL BOX, SEE DETAIL 3 ON SHEET SE3.2.
- ⑤ AREA LIGHT SEE DETAIL 1 SHEET SE3.1.
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- ⑨ REFER TO SHEET 3.1 DETAIL 2 FOR CONDUIT ROUTING.
- ⑩ 1" CONDUIT WITH PULL ROPE AS SPARE.
- ⑪ ROUTE CONDUIT AROUND LIGHT WELL OPENING.

LEGEND:

- UNDERGROUND CONDUIT
- ABOVE GROUND CONDUIT
- UTILITY COMPANY TRANSFORMER
- ELECTRICAL SERVICE
- PULL BOX
- AREA LIGHT
- CEILING MOUNTED TUNNEL LIGHT

MATCHLINE A-SEE SHEET SE2.3

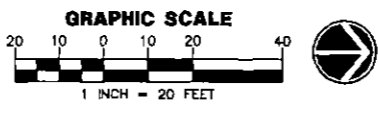
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 www.wrighteng.com
 Wright Project # 14324

DATE	REVISION	BY

ENGINEER

CITY OF SCOTTSDALE

PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT
 7447 E. INDIAN SCHOOL RD.
 SCOTTSDALE, ARIZONA 85251



ARIZONA BLUE STAKE
 CALL 973 WORKING DAYS BEFORE YOU DIG
 Dial 811 or 602-263-1100
 1-800-STAKE-IT
 (EXCEPT WASHINGTON COUNTY)








SHEET TITLE		PROJECT TITLE	
ELECTRICAL SITE PLAN		SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL	
SCALE	DESIGNED DATE	BID NO.	SHT.
HORIZ. DVG	1/16	AS-BUILT	SE2.1
VERT. DVG		PROJECT NO.	
		410-TB02A-56047	101 OF 105

XXX-XX

CONSTRUCTION NOTES

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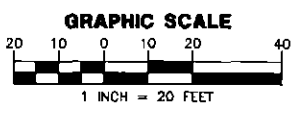
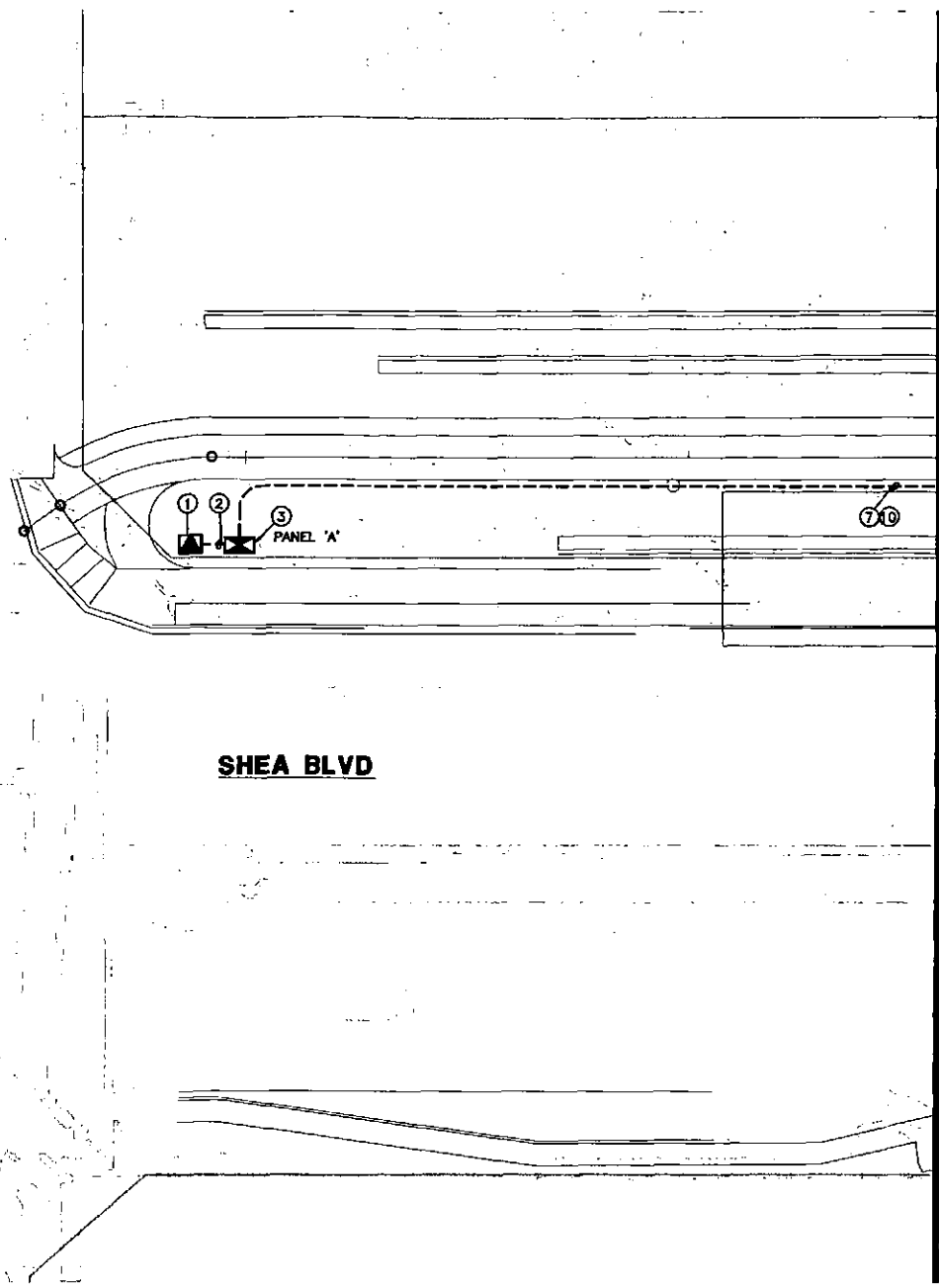
LEGEND:

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-  UTILITY COMPANY TRANSFORMER
-  ELECTRICAL SERVICE
-  PULL BOX
-  AREA LIGHT
-  CEILING MOUNTED TUNNEL LIGHT

N 124TH ST

SHEA BLVD

MATCHLINE B-SEE SHEET SE2.3



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 Wright Project # 14324

DATE	REVISION	BY

ENGINEER: [Signature]

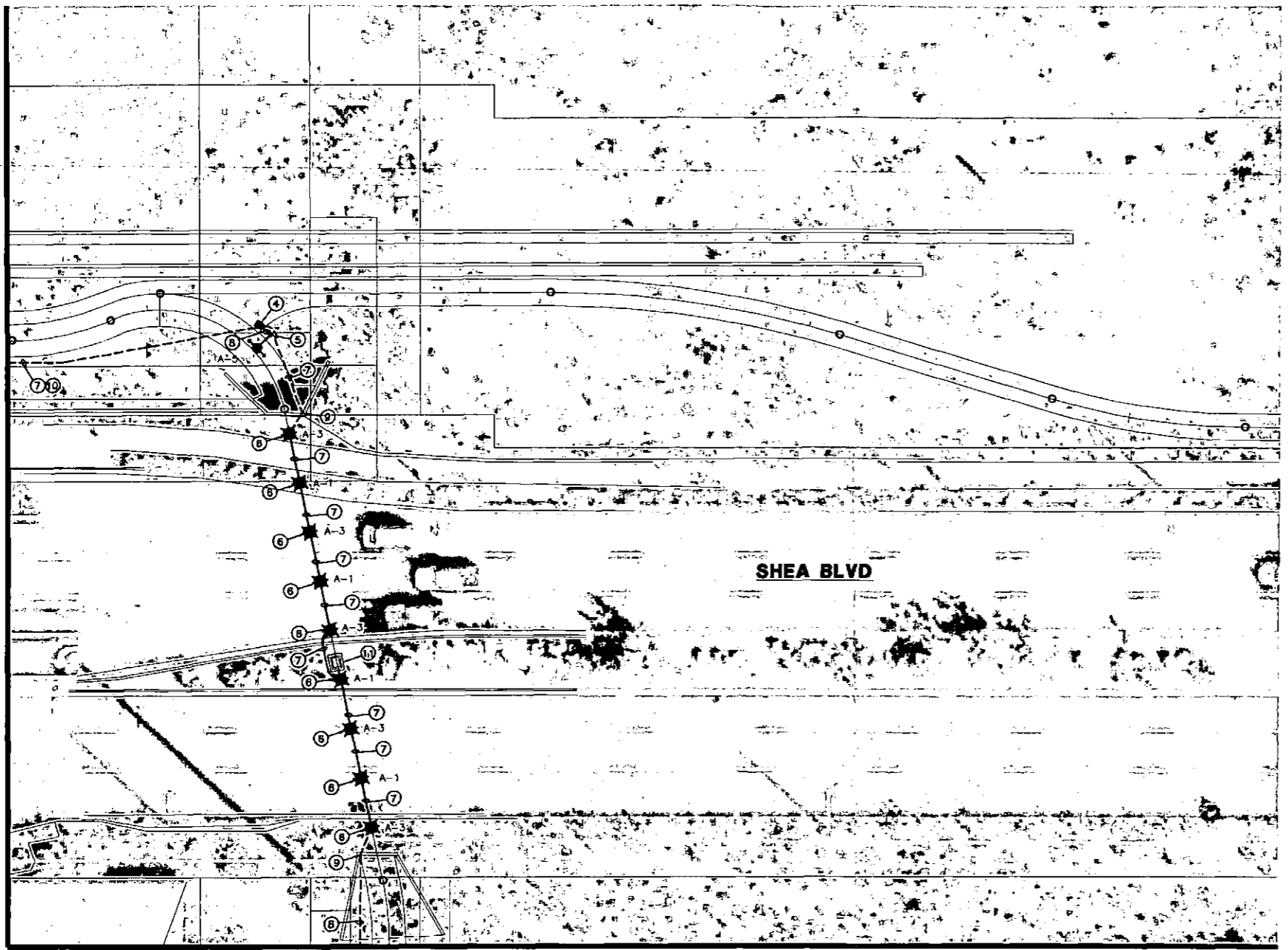
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 (FOR STATE AND LOCAL GOVT.)

SHEET TITLE ELECTRICAL SITE PLAN			
PROJECT TITLE SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL			
SCALE	DESIGNED	DATE	BID NO.
HORIZ. DVG	DVG	1/16	
VERT. DVG	AS-BUILT	PROJECT NO.	SHT. SE2.2
		410-TB02A-56047	102 OF 105

XXX-XX

MATCHLINE B-SEE SHEET SE2.2



MATCHLINE A-SEE SHEET SE2.1

CONSTRUCTION NOTES

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- ABOVE GROUND CONDUIT
- ▲ UTILITY COMPANY TRANSFORMER
- ⊠ ELECTRICAL SERVICE
- PULL BOX
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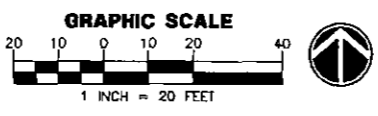
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 Wright Project # 14324

DATE	REVISION	BY

ENGINEER: [Signature]

PROFESSIONAL ENGINEER
 57199
 CLETON D
 TULSA OK
 10/16/17

CITY OF SCOTTSDALE
 ARIZONA
 PUBLIC WORKS
 CAPITAL PROJECT
 MANAGEMENT
 1447 E. INDIAN SCHOOL RD.
 SCOTTSDALE, ARIZONA 85251

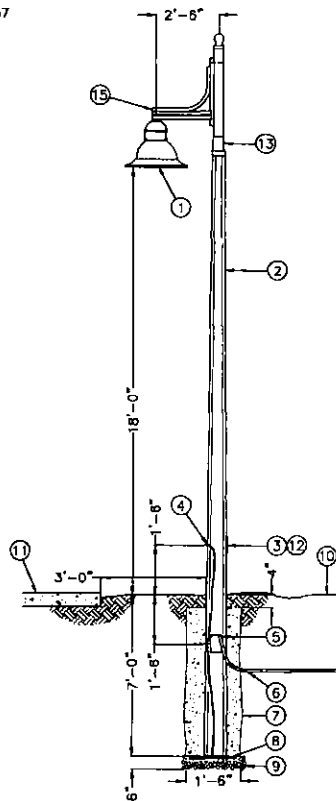


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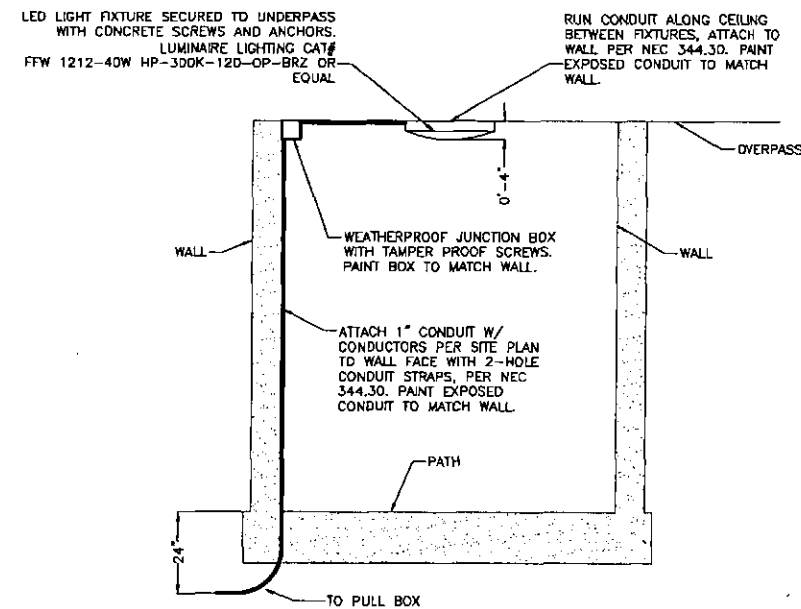
SHEET TITLE ELECTRICAL SITE PLAN				
PROJECT TITLE SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL				
SCALE	DESIGNED DVG	DATE 1/16	BID NO.	SHT. SE2.3
HORIZ. VERT.	DRAWN DVG	AS-BUILT	PROJECT NO. 410-TB02A-56047	103 OF 105

XXX-XX

- ① LED LIGHT FIXTURE, WITH TYPE II IES PHOTOMETRIC DISTRIBUTION. COLOR TO BE DAVIS COLOR #5237 ("SAN DIEGO BUFF").
 AAL LIGHTING 75 WATT DECORATIVE LED FIXTURE.
 CAT# UCM-FLR-T2-32LED-3K-700.
- ② DIRECT-BURIED, TAPERED, ROUND, PRE-STRESSED, REINFORCED, SPUN CONCRETE POLE.
 AMERON CAT# SER-6. POLE SHALL HAVE "BUFF NATURAL" EVERETT-ANNISTON COLOR #313 WITH ACRYLIC COATING, EXPOSED AGGREGATE FINISH. ALL POLES ARE TO BE PROVIDED FROM THE SAME MANUFACTURER.
- ③ FLUSH MOUNTED HANDHOLE WITH FLUSH, TAMPERPROOF, STAINLESS STEEL SECURITY SCREWS (BUTTON TORX WITH CENTER PIN). POLE MANUFACTURER TO PLACE HANDHOLE SO THAT IT WILL BE LOCATED ABOVE FINISHED GRADE AT HEIGHT NOTED IN DETAIL TO CENTER OF HANDHOLE AFTER INSTALLATION. INSTALL POLE WITH HANDHOLE FACING AWAY FROM PATH/SIDEWALK, WHERE POSSIBLE. WHERE POLE IS INSTALLED AGAINST WALL, HANDHOLE TO FACE PATH/SIDEWALK.
- ④ POLE MANUFACTURER TO PROVIDE A FACTORY INSTALLED GROUND WIRE WHICH IS CONNECTED TO THE STEEL REINFORCING IN THE POLE. CONNECT THE ELECTRICAL SYSTEM GROUND WIRE TO THIS POLE GROUND WIRE.
- ⑤ APERTURE IN POLE BASE FOR UNDERGROUND WIRING. APERTURE SIZED 1-1/2" BY 5" MINIMUM. PROVIDE TWO (2) EACH POLE AT 180 DEGREES FROM EACH OTHER AND 90 DEGREES FROM HANDHOLE. TAPE OPENINGS PRIOR TO BACKFILLING THE DRILLED HOLE.
- ⑥ PVC SCHEDULE 40 CONDUIT INTO POLE BASE FOR ELECTRICAL BRANCH CIRCUIT. SEE LIGHTING SITE PLAN FOR SIZES AND QUANTITIES. CONDUITS ARE TO BE INSTALLED IN POLE TO A POINT 12" ABOVE GRADE MINIMUM.
- ⑦ AFTER POLE HAS BEEN ALIGNED AND IS PLUMB, BLOCK POLE IN PLACE UNDERGROUND. BACKFILL HOLE WITH CEMENTIOUS EARTH BACKFILL TO A POINT 4" BELOW FINISHED GRADE. BACKFILL THE REMAINING 4" WITH SURROUNDING SOIL. CEMENTIOUS EARTH BACKFILL - MIX ONE PART DRY CEMENT POWDER TO FIFTEEN PARTS CLEAN, WASHED SAND.
- ⑧ COIL 20' OF #8 SOLID COPPER BOND. RUN BOND THROUGH POLE TO FACTORY INSTALLED GROUND WIRE IN HAND HOLE.
- ⑨ 1" WASHED RIVER ROCK FOR DRAINAGE, COMPACT BEFORE SETTING POLE.
- ⑩ FINISHED GRADE.
- ⑪ WHERE LIGHTS ARE INSTALLED NEXT TO PATHWAY OR SIDEWALK, MAINTAIN CLEARANCE FROM EDGE TO FACE OF POLE AS SHOWN IN DETAIL.
- ⑫ PROVIDE BUSSMAN #HEB FUSE HOLDER, ON EACH UNGROUNDED CONDUCTOR, WITH 5 AMP FUSES FOR INLINE FUSING. WHERE CIRCUIT IS SPLICED IN HANDHOLE, MAKE ALL SPLICES WITH UL486D WET LISTED WIRE NUTS, EQUAL TO DRYCONN AQUA WATERPROOF CONNECTORS. PROVIDE 18" MINIMUM OF SLACK IN THE CONDUCTORS.
- ⑬ CONTRACTOR TO ENSURE THAT ARM MOUNTS TIGHTLY AND SECURELY TO TOP OF POLE.
- ⑭ POLYCARBONATE VANDAL SHIELD LENS INSTALLED BY MANUFACTURER.
- ⑮ AAL LIGHTING DECORATIVE ARM. CAT# SLA16, COLOR TO MATCH FIXTURE.



1 AREA LIGHT DETAIL
 NO SCALE



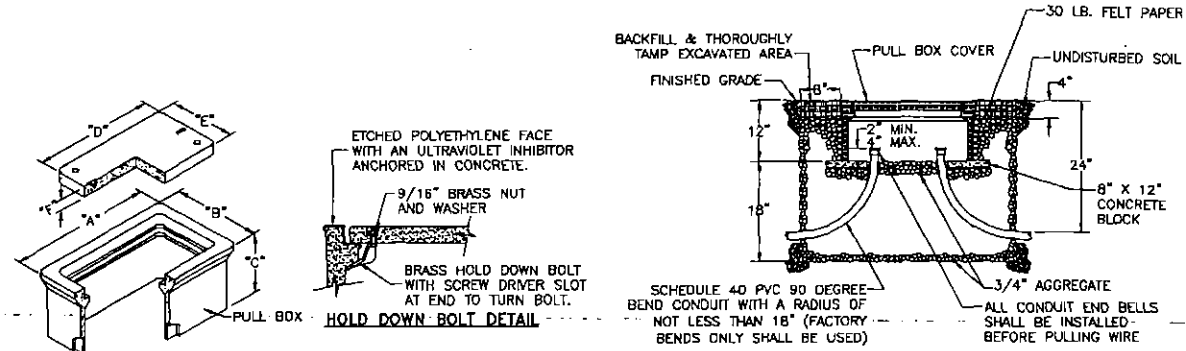
2 LED CEILING MOUNTED LIGHT
 NO SCALE

WRIGHT engineering corporation ELECTRICAL ENGINEERING AND DESIGN 165 EAST CHILTON DRIVE CHANDLER, ARIZONA 85225 PHONE: 480.497.5829 FAX: 480.497.5807 www.wrightengr.com Wright Project # 14324	ENGINEER 	REVISION 	BY
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251	

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SHEET TITLE				
ELECTRICAL DETAILS				
PROJECT TITLE				
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL				
SCALE	DESIGNED	DATE	BID NO.	SHT.
HORIZ.	DVG	1/16		SE3.1
VERT.	DVG	AS-BUILT	410-TB02A-56047	104 OF 105

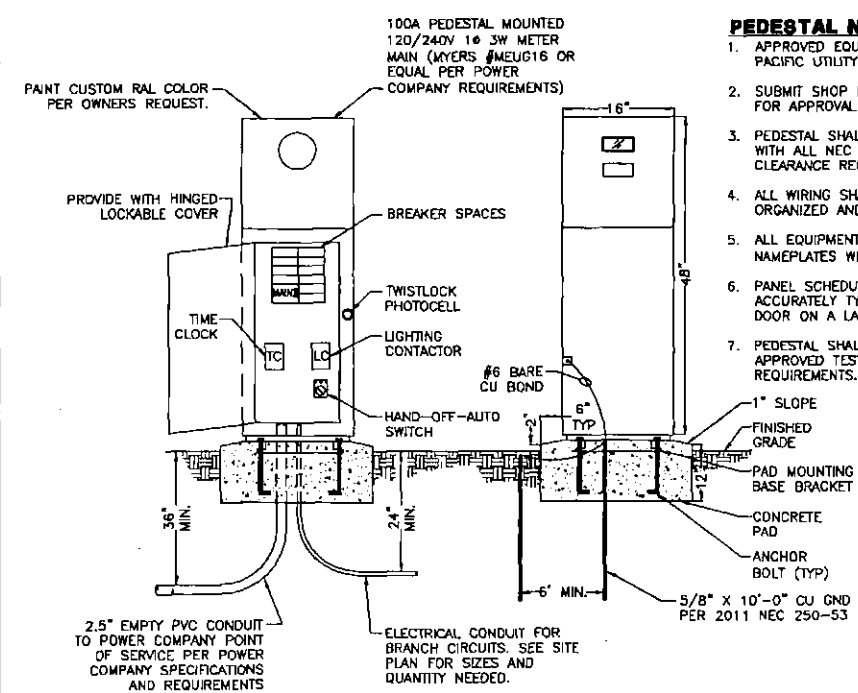
XXX-XX



PULLBOX TYPE	DATA TABLE					
	PULLBOX LENGTH	PULLBOX WIDTH	PULLBOX HEIGHT	LID LENGTH	LID WIDTH	LID HEIGHT
#3 1/2	19-3/4"	14-1/4"	12"	15-1/4"	10"	1-3/4"
#5	25-1/4"	15-3/4"	12"	20-5/8"	10-1/2"	2"
#7	34-3/4"	21-3/4"	12"	30-1/8"	17-5/8"	2"

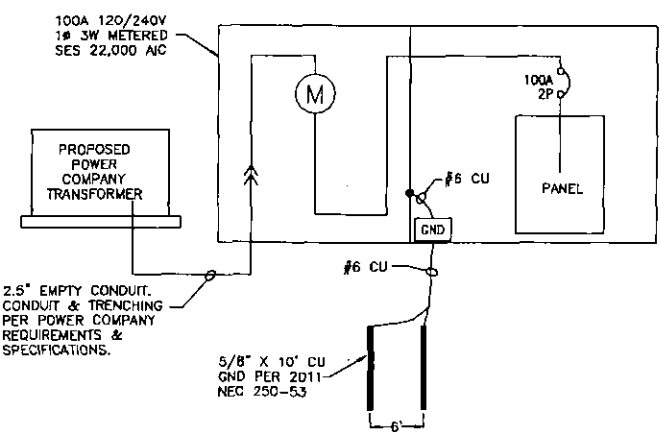
- GENERAL NOTES:**
- THE PULL BOX SHALL BE MADE OF A HIGH DENSITY REINFORCED CONCRETE MATERIAL WITH END & SIDE KNOCKOUTS, & NONSETTLING SHOULDERS TO MAINTAIN GRADE, MANUFACTURED WITH APPROXIMATE DIMENSIONS AS SHOWN.
 - STEEL REINFORCEMENT SHALL BE AS REGULARLY USED IN STANDARD PRODUCTS OF THE RESPECTIVE MANUFACTURER.
 - COVER LETTERING SHALL BE 1" LETTERS CAST IN STANDARD MARKINGS: "ELECTRIC" OR "HIGH VOLTAGE", AS REQUIRED.
 - THE PULL BOX SHALL HAVE AN ETCHED POLYETHYLENE FACE WITH AN ULTRAVIOLET INHIBITOR ANCHORED IN CONCRETE.
 - ALL CABLE & CONDUCTOR SPLICES SHALL BE CONNECTED WITH TYCO ELECTRONICS GELCAP-SL, NSI INDUSTRIES ESSLK-2/0, OR COPPER COMPRESSION H-TAP CONNECTOR OR APPROVED EQUAL & INSULATED WITH 3M SCOTCHCAST SPLICE KIT 85 SERIES, TYCO ELECTRONICS GELCAP SL, NSI INDUSTRIES GSS SERIES OR APPROVED EQUAL.

3 PULL BOX INSTALLATION
NO SCALE



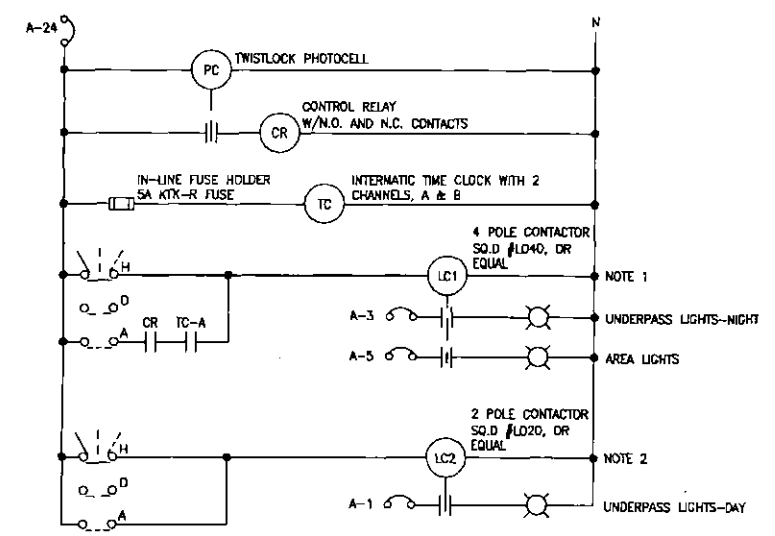
4 100A PEDESTAL MOUNTED SERVICE
NO SCALE 120/240V 1# 3W

- PEDESTAL NOTES**
- APPROVED EQUAL MANUFACTURERS: MILBANK, PACIFIC UTILITY PRODUCTS
 - SUBMIT SHOP DRAWINGS TO POWER COMPANY FOR APPROVAL PRIOR TO ORDERING EQUIPMENT.
 - PEDESTAL SHALL BE INSTALLED IN ACCORDANCE WITH ALL NEC CODE AND POWER COMPANY CLEARANCE REQUIREMENTS.
 - ALL WIRING SHALL BE INSTALLED IN AN ORGANIZED AND NEAT MANNER.
 - ALL EQUIPMENT SHALL HAVE LAMINOID NAMEPLATES WITH 1/4" LETTERING.
 - PANEL SCHEDULE SHALL BE NEATLY & ACCURATELY TYPED AND PLACED ON THE INSIDE DOOR ON A LAMINATED SHEET.
 - PEDESTAL SHALL BE COMMERCIAL RATED WITH APPROVED TEST BLOCKS PER POWER COMPANY REQUIREMENTS.



5 100A SINGLE LINE DIAGRAM
NO SCALE 120/240V 1# 3W

PANEL NAME: A		120/240V, 1#, 3W				100A MAIN BREAKER			
LOCATION: SEE SITE PLAN		TYPE: PLUG-IN				PEDESTAL MTD., NEMA 3R			
CKT NO.	BKR SIZE	DESCRIPTION	LOAD	A#	B#	LOAD	DESCRIPTION	BKR SIZE	CKT NO.
1	20/1	* TUNNEL LIGHTS-DAY	200	200		0	SPARE	20/1	2
3	20/1	* TUNNEL LIGHTS-NIGHT	250		250	0	SPARE	20/1	4
5	20/1	* AREA LIGHTS	188	188		0	SPARE	20/1	6
7	20/1	SPARE	0		0	0	SPARE	20/1	8
9	20/1	SPARE	0	0		0	SPARE	20/1	10
11	20/1	SPARE	0		0	0	SPARE	20/1	12
13	20/1	SPARE	0	0		0	SPARE	20/1	14
15	20/1	SPARE	0		0	0	SPARE	20/1	16
17	20/1	SPARE	0	0		0	SPARE	20/1	18
19	20/1	SPARE	0		0	0	SPARE	20/1	20
21	20/1	SPARE	0	200		200	IRRIGATION CONTROLLER	20/1	22
23	20/1	SPARE	0		200	200	LIGHTING CONTROL	20/1	24
CODE TOTAL VA/#			588	450	*INDICATES LOAD @ 125%				
CODE TOTAL AMPS/#			4.9	3.8	22,000 AIC BREAKERS				



6 LIGHTING CONTROL SCHEMATIC
NO SCALE 120V

CONTROL SCHEMATIC LEGEND

- HAND-OFF-AUTO SWITCH
- PHOTOCELL RELAY
- CONTROL RELAY
- TIME CLOCK
- LIGHTING CONTACTOR
- NORMALLY OPEN CONTACT
- CIRCUIT BREAKER

CONTROLLER NOTES

- THIS CIRCUIT TO BE ACTIVATED FROM DUSK TO DAWN.
- THIS CIRCUIT TO BE ACTIVATED ALL DAY AND NIGHT.

WRIGHT
 engineering corporation
 ELECTRICAL ENGINEERING AND DESIGN
 155 EAST CHILTON DRIVE
 CHANDLER, ARIZONA 85225
 PHONE: 480.497.5829
 FAX: 480.497.5807
 www.wrightenr.com
 Wright Project # 14324

DATE: 1-31-17
 ENGINEER: [Signature]
 REVISION: [Blank]
 BY: [Blank]

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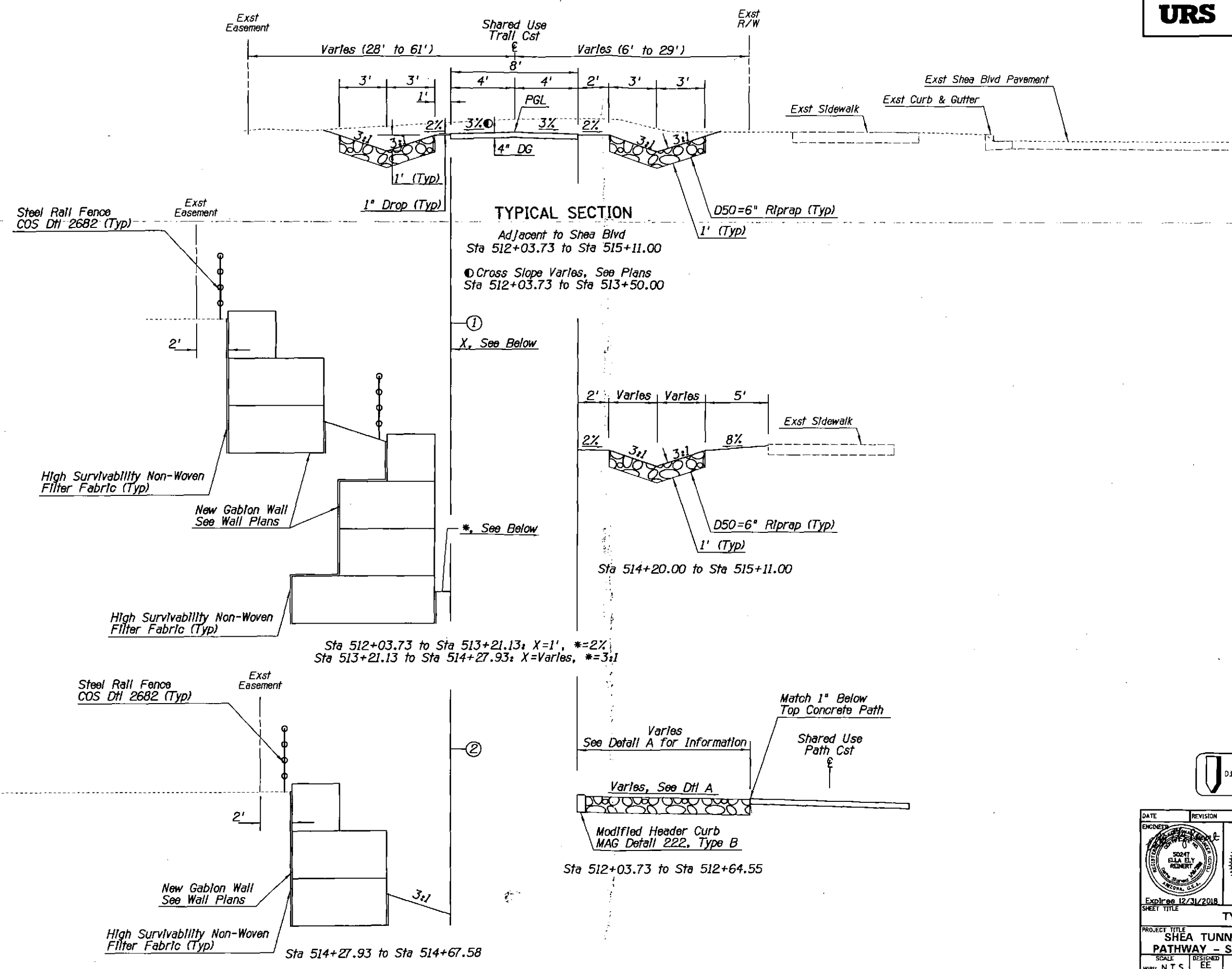
ELECTRICAL DETAILS

SCALE	DESIGNED DVC	DATE	BID NO.	SHT.
HORIZ.	DRAWN DVC	AS-BUILT	PROJECT NO.	SE3.2
VERT.			410-TB02A-56047	105 OF 105

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 PLOT DATE: 1/16/2016 11:16:36 AM



TYPICAL SECTION

Adjacent to Shea Blvd
 Sta 512+03.73 to Sta 515+11.00
 ● Cross Slope Varies, See Plans
 Sta 512+03.73 to Sta 513+50.00

①
 X, See Below

*. See Below

Sta 512+03.73 to Sta 513+21.13: X=1', *=2%
 Sta 513+21.13 to Sta 514+27.93: X=Varies, *=3:1

②

Sta 514+27.93 to Sta 514+67.58

Sta 512+03.73 to Sta 512+64.55



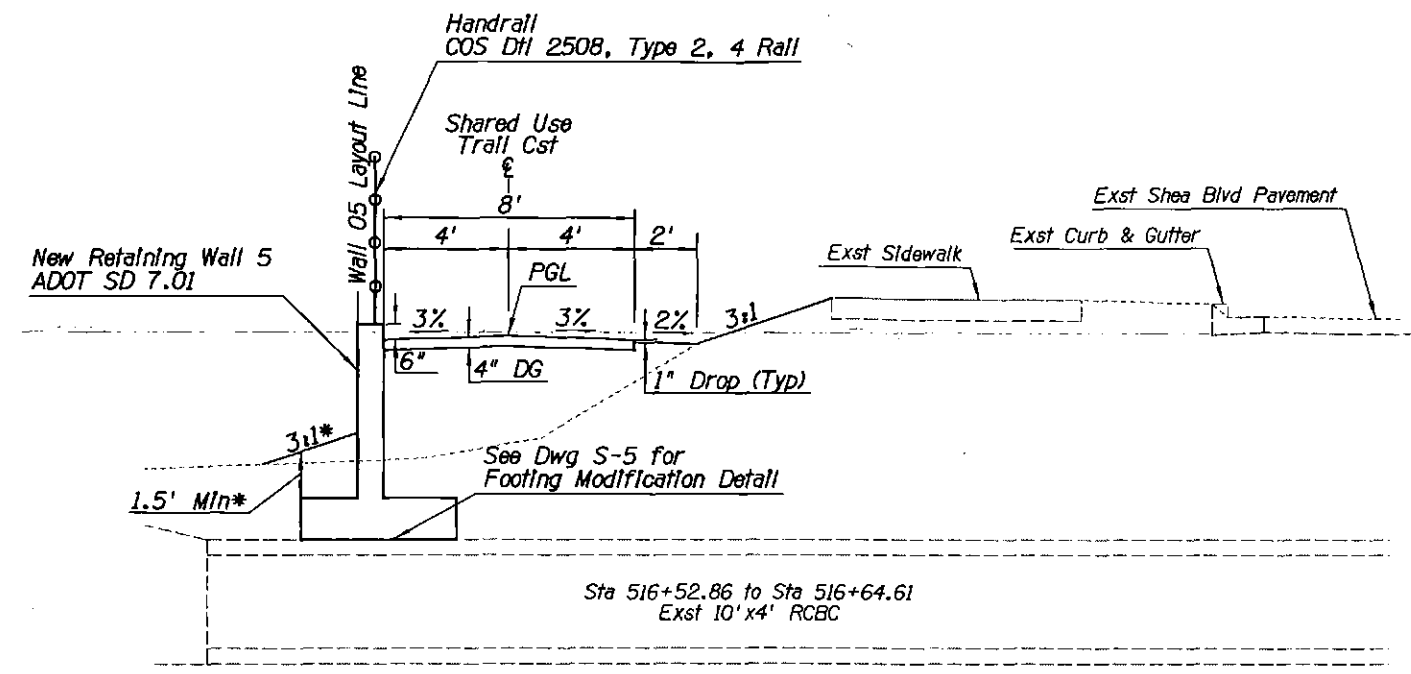
DATE	REVISION	BY

		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
Expires 12/31/2018 SHEET TITLE: TYPICAL SECTION		
PROJECT TITLE: SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE: HORIZ. N.T.S.	DESIGNED: EE	DATE: 6/15
VERT. N.T.S.	DRAWN: BP	AS-BUILT
BID NO. 16BP020		DWG. G-7
PROJECT NO.		T OF 105

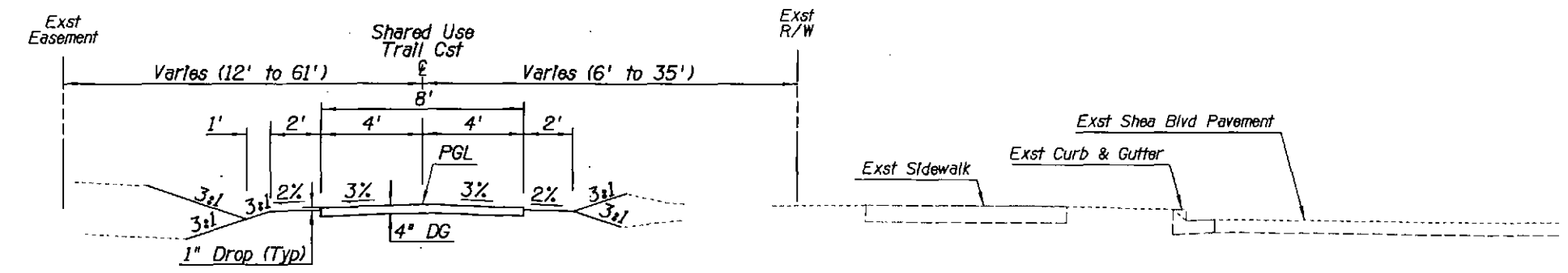
Sections

XXX-XX

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TYPICAL SECTION
Sta 516+35.20 to Sta 517+50.47
*See Dwg S-5 for Footing Modification Over Existing RCBC



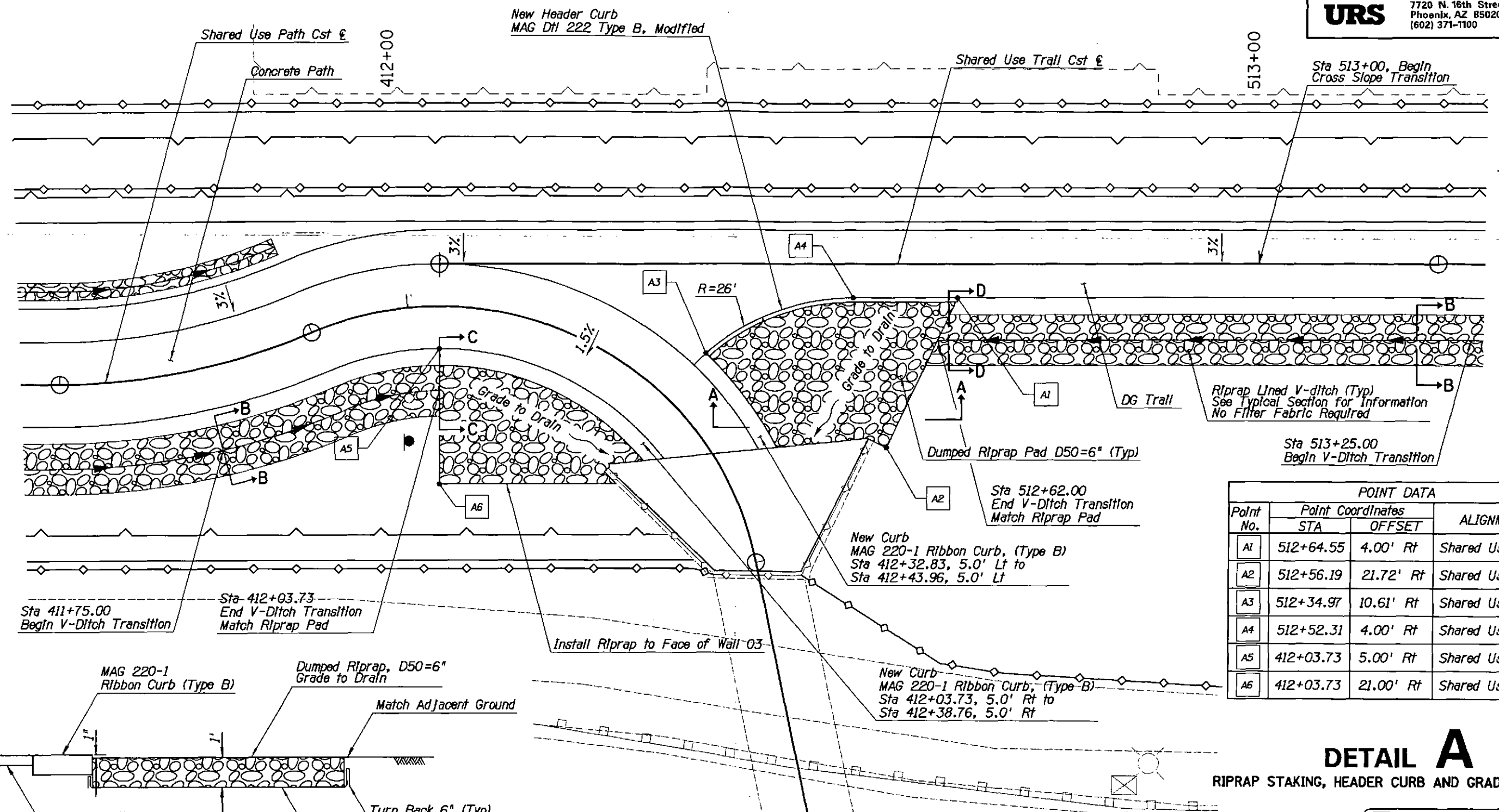
TYPICAL SECTION
Adjacent to Shea Blvd
Sta 515+11.00 to Sta 516+35.20
Sta 517+50.47 to Sta 519+94.70



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7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
Expires 12/31/2018		
TYPICAL SECTION		
PROJECT TITLE SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. N.T.S.	EE	6/15
VERT. N.T.S.	BP	AS-BUILT
BID NO.	DWG.	
16BP020	C-8	
PROJECT NO.		8 of 105

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Riprap Lined V-ditch (Typ)
See Typical Section for Information
No Filter Fabric Required

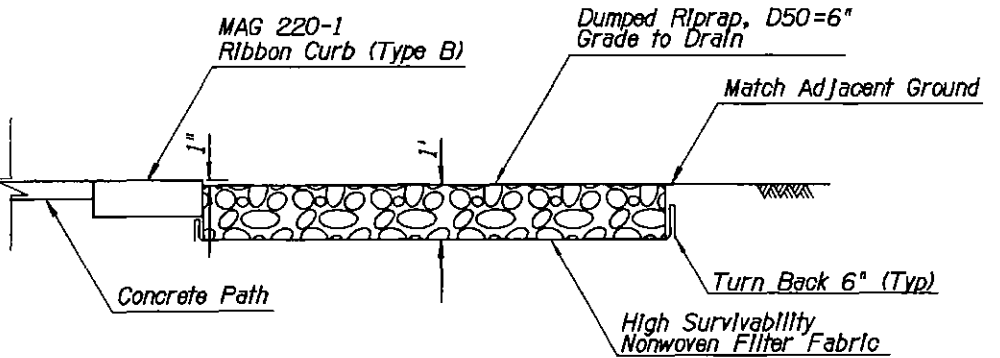
Sta 513+25.00
Begin V-Ditch Transition

Sta 512+62.00
End V-Ditch Transition
Match Riprap Pad

New Curb
MAG 220-1 Ribbon Curb, (Type B)
Sta 412+32.83, 5.0' Lt to
Sta 412+43.96, 5.0' Lt

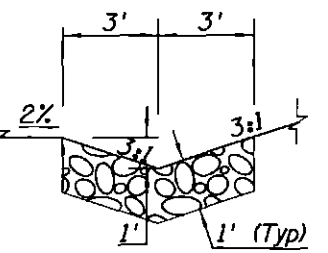
New Curb
MAG 220-1 Ribbon Curb, (Type B)
Sta 412+03.73, 5.0' Rt to
Sta 412+38.76, 5.0' Rt

POINT DATA			
Point No.	Point Coordinates		ALIGNMENT
	STA	OFFSET	
A1	512+64.55	4.00' Rt	Shared Use Trail
A2	512+56.19	21.72' Rt	Shared Use Trail
A3	512+34.97	10.61' Rt	Shared Use Trail
A4	512+52.31	4.00' Rt	Shared Use Trail
A5	412+03.73	5.00' Rt	Shared Use Path
A6	412+03.73	21.00' Rt	Shared Use Path

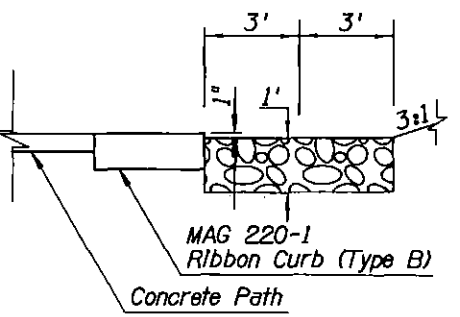


Riprap Pad Section A-A

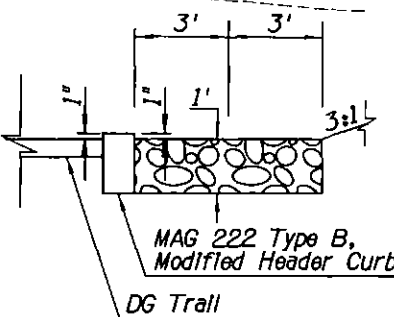
- Notes:**
- 1) Riprap and DG Trail shall be 1" below top of curb or concrete sidewalk from Shared Use Path Sta 411+53.73 to Shared Use Trail Sta 512+64.55. Top of DG Trail shall match top of concrete Shared Use Path from Shared Use Path Sta 409+60.70 to Sta 411+53.73 as shown on Typical Section.
 - 2) Top of curb shall match top of Shared Use Path concrete.
 - 3) Modified Header curb shall be 13" total height and shall meet requirements specified in notes 1 & 2.
 - 4) The cost of high survivability non-woven filter fabric is included in the cost of the riprap.



Section B-B



Section C-C



Section D-D

DETAIL A

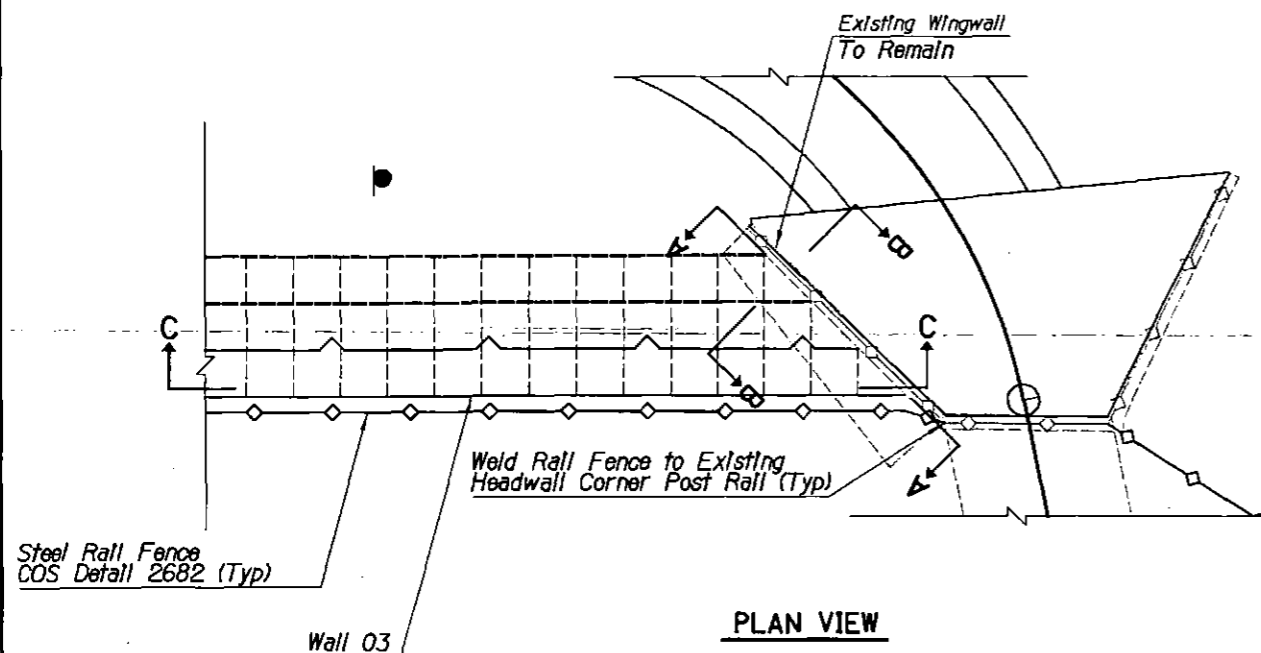
RIPRAP STAKING, HEADER CURB AND GRADING DETAIL



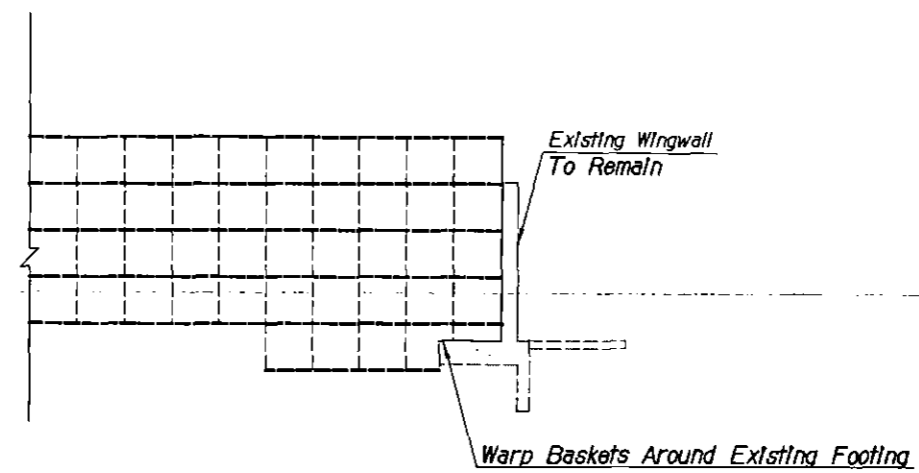
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1447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
PROJECT TITLE SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DATE	BID NO.
HORIZ. EE	6/15	16BP020
VERT. AS-BUILT		PROJECT NO.
		DWG. G-9
		9 OF 103

XXX-XX

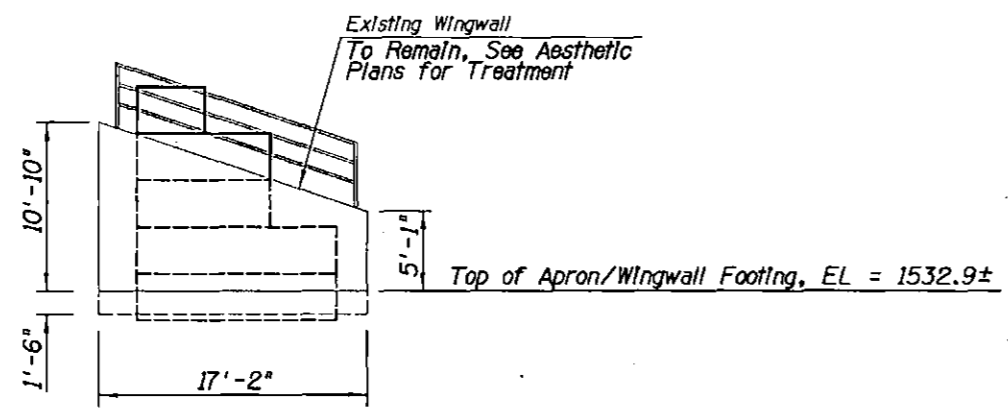
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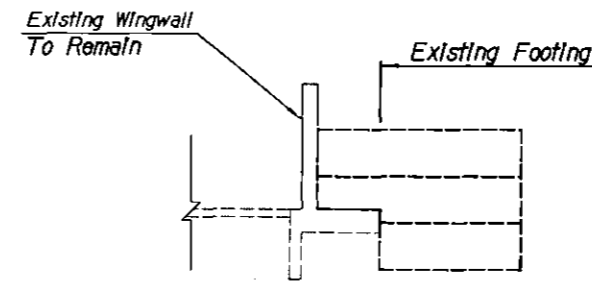
PLAN VIEW



SECTION VIEW C-C
See Wall 03 Dwg S-4 for Wall Profile



SECTION VIEW A-A



SECTION VIEW B-B

Notes:

1) Cost to weld new rail fence to existing safety rail is considered incidental to the cost of the steel rail fence and no additional payment will be made for this work.

DETAIL B
WALL 03 WINGWALL CONNECTION

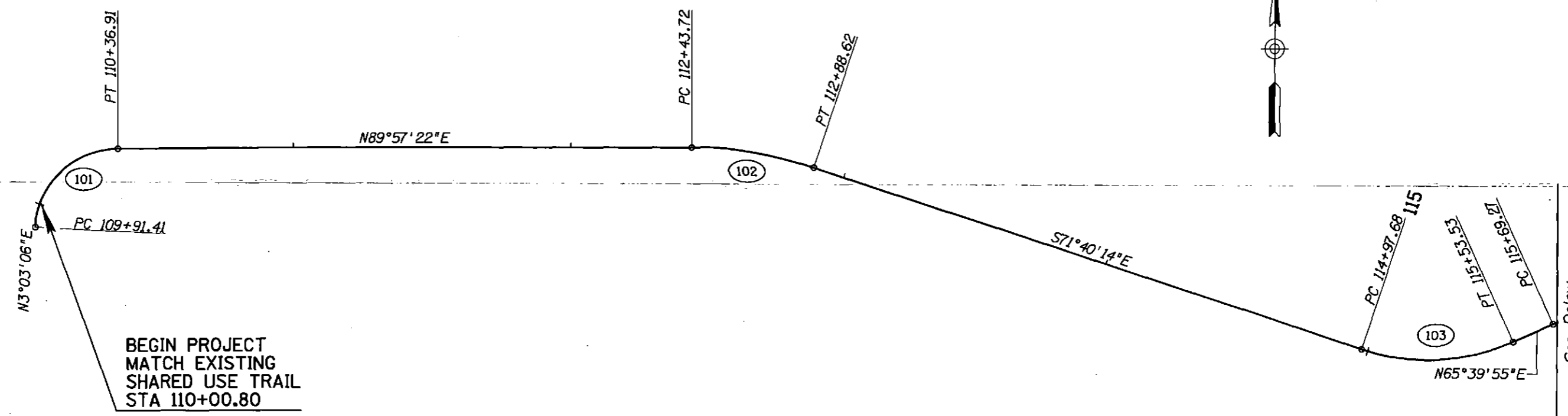
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<p>GABION WALL CONNECTION</p>		
<p>PROJECT TITLE SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL</p>		
SCALE	DESIGNED	DATE
HORIZ.	EE	6/15
VERT.	BP	AS-BUILT
	BID NO.	DWG.
	16BP020	G-10
	PROJECT NO.	10 OF 105

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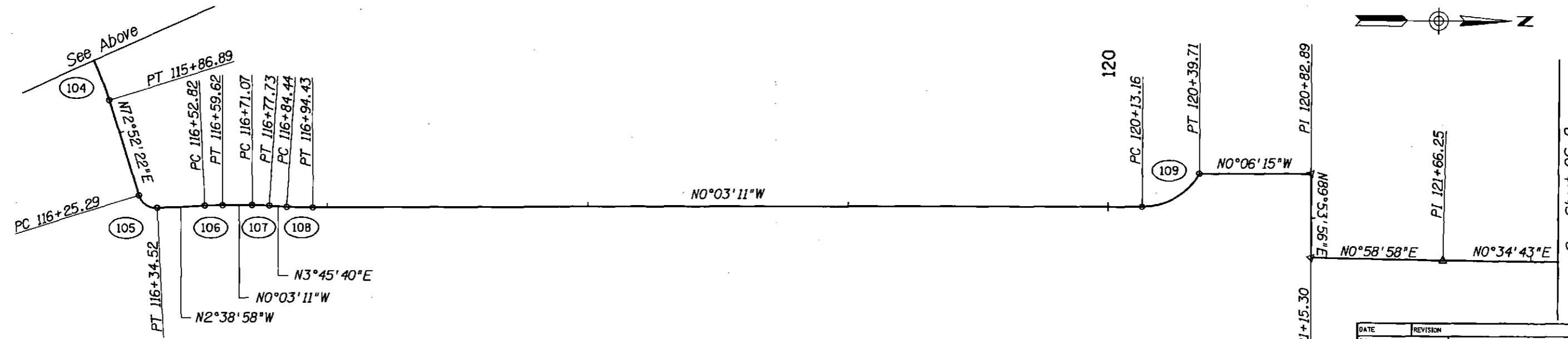


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BEGIN PROJECT
 MATCH EXISTING
 SHARED USE TRAIL
 STA 110+00.80

See Below



See Sheet GS-2

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7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE: GEOMETRIC PLAN SHEET		
PROJECT TITLE: SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. EE	6/15	BID NO. 16BP020
VERT. DRAWN BP	AS-BUILT	PROJECT NO. GS-1
		DWG. 11 OF 105

XXX-XX

URS

7720 N. 16th Street, Suite 100
Phoenix, AZ 85020
(602) 371-1100

Match Below

PT 212+59.94 (202)

N89°56'49"E

POE 127+75.63

POE 213+96.71



N0°34'43"E

See Sheet GS-1

PT 316+03.48

N0°54'36"W

N6°04'20"W

N11°24'48"E

N0°04'06"W

See Sheet GS-3

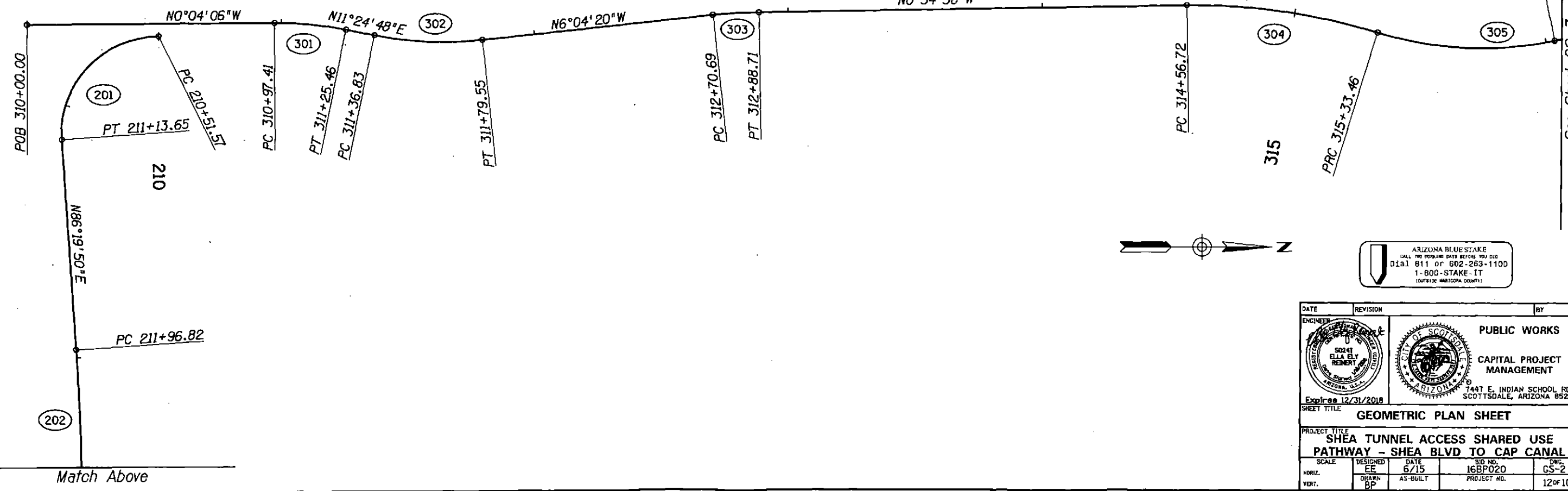


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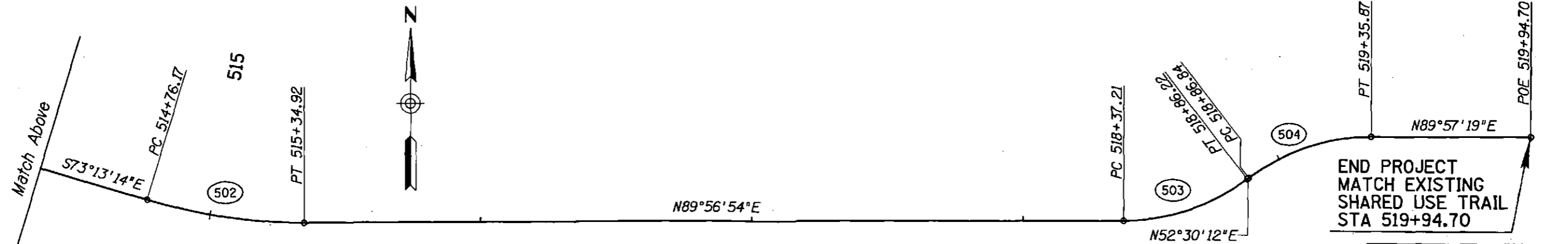
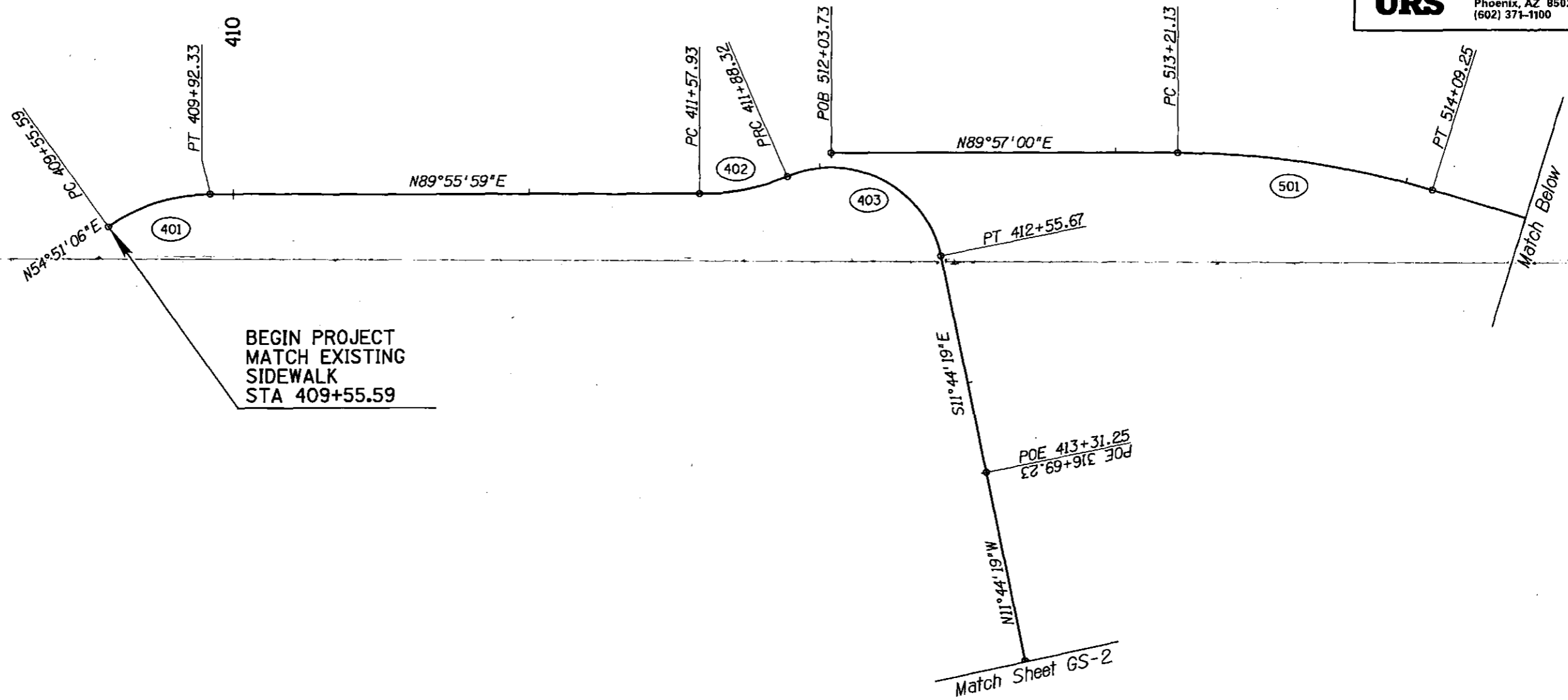
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PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
Expires 12/31/2018 SHEET TITLE: GEOMETRIC PLAN SHEET		
PROJECT TITLE: SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ.	EE	6/15
VERT.	BP	AS-BUILT
BID NO.		DWG.
16BP020		GS-2
PROJECT NO.		12 of 105

XXX-XX

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DATE	REVISION	BY
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CAPITAL PROJECT MANAGEMENT		
Expires 12/31/2018		
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
GEOMETRIC PLAN SHEET		
PROJECT TITLE		
SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. EE	6/15	BID NO. 16BP020
VERT. BP	AS-BUILT	PROJECT NO. GS-3
		DWG. 13 OF 105

XXX-XX

DESIGN FILE: P:\Projects\Civil_of_Scottsdale\2009-192-COS On-Call Contract\23446725 Shea Tunnel Access\CADD\Plans\521610_GD-1.dgn PLOT DATE: 1/16/2016 11:16:41 AM

PLAN REF NO	Point Type	STATION	COORDINATES		SPIRAL TOTAL				SPIRAL MAIN OR CIRCULAR CURVE							SPIRAL CURVE			
			Northing	Easting	Total Delta	T	L	R+o	Ext	Δ	D	R	L	T	Ext	Super	Δ	L	o
	Shared Use Trall Cst E	PC	109+91.41	937714.88	731501.38														
101	Shared Use Trall Cst E	PI	110+19.83	937743.26	731502.89														
	Shared Use Trall Cst E	PT	110+36.91	937743.29	731531.31														
	Shared Use Trall Cst E	PC	112+43.72	937743.44	731738.12														
102	Shared Use Trall Cst E	PI	112+66.36	937743.46	731760.76														
	Shared Use Trall Cst E	PT	112+88.62	937736.34	731782.25														
	Shared Use Trall Cst E	PC	114+97.68	937670.59	731980.71														
103	Shared Use Trall Cst E	PI	115+26.97	937661.38	732008.52														
	Shared Use Trall Cst E	PT	115+53.53	937673.45	732035.20														
	Shared Use Trall Cst E	PC	115+69.27	937679.94	732049.55														
104	Shared Use Trall Cst E	PI	115+78.09	937683.57	732057.58														
	Shared Use Trall Cst E	PT	115+86.89	937686.17	732066.01														
	Shared Use Trall Cst E	PC	116+25.29	937697.48	732102.71														
105	Shared Use Trall Cst E	PI	116+30.71	937699.08	732107.89														
	Shared Use Trall Cst E	PT	116+34.52	937704.49	732107.64														
	Shared Use Trall Cst E	PC	116+52.82	937722.77	732106.79														
106	Shared Use Trall Cst E	PI	116+56.22	937726.17	732106.64														
	Shared Use Trall Cst E	PT	116+59.62	937729.57	732106.63														
	Shared Use Trall Cst E	PC	116+71.07	937741.03	732106.62														
107	Shared Use Trall Cst E	PI	116+74.40	937744.36	732106.62														
	Shared Use Trall Cst E	PT	116+77.73	937747.68	732106.84														
	Shared Use Trall Cst E	PC	116+84.44	937754.37	732107.28														
108	Shared Use Trall Cst E	PI	116+89.43	937759.36	732107.61														
	Shared Use Trall Cst E	PT	116+94.43	937764.35	732107.60														
	Shared Use Trall Cst E	PC	120+13.16	938083.09	732107.31														
109	Shared Use Trall Cst E	PI	120+27.84	938097.77	732107.29														
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	Shared Use Trall Cst E	PI	121+15.30	938148.14	732126.79														
	Shared Use Trall Cst E	PI	121+66.25	938199.08	732127.67														
	Shared Use Trall Cst E	POE	127+75.63	938808.44	732133.82														

DATE	REVISION	BY
ENGINEER		
PUBLIC WORKS		
CAPITAL PROJECT MANAGEMENT		
1447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE: GEOMETRIC DATA		
PROJECT TITLE: SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
	EE	6/15
HORIZ.	DRAWN	BIG NO.
	BP	16BP020
VERT.	AS-BUILT	PROJECT NO.
		DWG. NO. 14 of 105

XXX-XX

DESIGN FILE: P:\Projects\Civil\Scottsdale\2009-192-COS On-Call Contract\23446725 Shee Tunnel Access\CADD\Plans\2161610_GD-2.dgn PLOT DATE: 1/16/2016 11:16:42 AM

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			Northing	Easting	Total Delta	T	L	R+o	Ext	Δ	D	R	L	T	Ext	Super	Δ	L	o
	Shared Use Trall Cst	PC	210+51.57	938838.81	731810.54														
201	Shared Use Trall Cst	PI	210+92.04	938798.35	731810.59														
	Shared Use Trall Cst	PT	211+13.65	938800.94	731850.97														
	Shared Use Trall Cst	PC	211+96.82	938806.26	731933.97														
202	Shared Use Trall Cst	PI	212+28.39	938808.28	731965.48														
	Shared Use Trall Cst	PT	212+59.94	938808.31	731997.05														
	Shared Use Trall Cst	POE	213+96.71	938808.44	732133.82														

PLAN REF NO	Point Type	STATION	COORDINATES		SPIRAL TOTAL					SPIRAL MAIN OR CIRCULAR CURVE							SPIRAL CURVE		
			Northing	Easting	Total Delta	T	L	R+o	Ext	Δ	D	R	L	T	Ext	Super	Δ	L	o
	Shared Use Path Cst	POB	310+00.00	938787.24	731805.60														
	Shared Use Path Cst	PC	310+97.41	938884.64	731805.49														
301	Shared Use Path Cst	PI	311+11.48	938898.72	731805.47														
	Shared Use Path Cst	PT	311+25.46	938912.51	731808.26														
	Shared Use Path Cst	PC	311+36.83	938923.65	731810.5														
302	Shared Use Path Cst	PI	311+58.36	938944.76	731814.77														
	Shared Use Path Cst	PT	311+79.55	938966.17	731812.49														
	Shared Use Path Cst	PC	312+70.69	939056.79	731802.85														
303	Shared Use Path Cst	PI	312+79.71	939065.76	731801.89														
	Shared Use Path Cst	PT	312+88.71	939074.77	731801.75														
	Shared Use Path Cst	PC	314+56.72	939242.76	731799.08														
304	Shared Use Path Cst	PI	314+95.40	939281.44	731798.47														
	Shared Use Path Cst	PRC	315+33.46	939318.45	731809.72														
305	Shared Use Path Cst	PI	315+69.22	939352.66	731820.13														
	Shared Use Path Cst	PT	316+03.48	939387.67	731812.86														
	Shared Use Path Cst	POE	316+69.23	939452.05	731799.48														

PLAN REF NO	Point Type	STATION	COORDINATES		SPIRAL TOTAL					SPIRAL MAIN OR CIRCULAR CURVE							SPIRAL CURVE		
			Northing	Easting	Total Delta	T	L	R+o	Ext	Δ	D	R	L	T	Ext	Super	Δ	L	o
	Shared Use Path Cst	PC	409+55.59	939535.98	731502.24														
401	Shared Use Path Cst	PI	409+74.55	939546.90	731517.75														
	Shared Use Path Cst	PT	409+92.33	939546.92	731536.71														
	Shared Use Path Cst	PC	411+57.93	939547.11	731702.32														
402	Shared Use Path Cst	PI	411+73.34	939547.13	731717.72														
	Shared Use Path Cst	PRC	411+88.32	939553.22	731731.88														
403	Shared Use Path Cst	PI	412+34.87	939571.62	731774.63														
	Shared Use Path Cst	PT	412+55.67	939526.05	731784.10														
	Shared Use Path Cst	POE	413+31.25	939452.05	731799.48														

PLAN REF NO	Point Type	STATION	COORDINATES		SPIRAL TOTAL					SPIRAL MAIN OR CIRCULAR CURVE							SPIRAL CURVE		
			Northing	Easting	Total Delta	T	L	R+o	Ext	Δ	D	R	L	T	Ext	Super	Δ	L	o
	Shared Use Trall Cst	POB	512+03.73	939561.32	731746.86														
	Shared Use Trall Cst	PC	513+21.13	939561.42	731864.26														
501	Shared Use Trall Cst	PI	513+65.51	939561.46	731908.64														
	Shared Use Trall Cst	PT	514+09.25	939548.65	731951.13														
	Shared Use Trall Cst	PC	514+76.17	939529.33	732015.20														
502	Shared Use Trall Cst	PI	515+05.76	939520.79	732043.53														
	Shared Use Trall Cst	PT	515+34.92	939520.81	732073.12														
	Shared Use Trall Cst	PC	518+37.21	939521.09	732375.40														
503	Shared Use Trall Cst	PI	518+62.63	939521.11	732400.82														
	Shared Use Trall Cst	PT	518+86.22	939536.58	732420.99														
	Shared Use Trall Cst	PC	518+86.84	939536.96	732421.48														
504	Shared Use Trall Cst	PI	519+12.27	939552.43	732441.65														
	Shared Use Trall Cst	PT	519+35.87	939552.45	732467.08														
	Shared Use Trall Cst	POE	519+94.70	939552.50	732525.91														

DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS
CAPITAL PROJECT MANAGEMENT		
1447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
Expires 12/31/2018		
SHEET TITLE		
GEOMETRIC DATA		
PROJECT TITLE		
SHEA TUNNEL ACCESS SHARED USE PATHWAY - SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ.	EE	6/15
VERT.	BP	AS-BUILT
BID NO.	DWG.	
16BP020	GD-2	
PROJECT NO.	15 OF 105	

XXX-XX

NATIVE PLANT INVENTORY

PLANT #	COMMON NAME	CALIPER (in)/ HEIGHT (ft)	STATUS	COMMENTS
1	Foothills Palo Verde	7	PIP	
2	Ironwood	4	PIP	
3	Barrel	3	PIP	
4	Barrel	4	PIP	
5	Saguaro	8	PIP	
6	Mesquite	4	PIP	
7	Saguaro	10	PIP	
8	Mesquite	6	PIP	
9	Mesquite	22	PIP	
10	Foothills Palo Verde	10	PIP	
11	Foothills Palo Verde	12	PIP	
12	Mesquite	12	PIP	Prune as Necessary for Clearance
13	Mesquite	9	PIP	* Prune as Necessary for Clearance
14	Mesquite	4	PIP	* Prune as Necessary for Clearance
15	Mesquite	8	PIP	* Prune as Necessary for Clearance
16	Hybrid Palo Verde	9	PIP	* Prune as Necessary for Clearance
17	Blue Palo Verde	9	S	
18	Barrel	3	PIP	
19	Whitethorn Acacia	6	NS	Wide Base / Cambium Damage
20	Saguaro	13	PIP	
21	Foothills Palo Verde	8	PIP	Prune as Necessary for Clearance
22	Foothills Palo Verde	8	PIP	Prune as Necessary for Clearance
23	Foothills Palo Verde	14	PIP	Prune as Necessary for Clearance
24	Foothills Palo Verde	4	PIP	Prune as Necessary for Clearance
25	Hackberry	60	PIP	Prune as Necessary for Clearance
26	Foothills Palo Verde	20	PIP	Prune as Necessary for Clearance
27	Foothills Palo Verde	19	PIP	Prune as Necessary for Clearance
28	Ironwood	20	PIP	Prune as Necessary for Clearance
29	Foothills Palo Verde	24	PIP	Prune as Necessary for Clearance
30	Ironwood	9	PIP	
31	Barrel	5	PIP	
32	Saguaro	11	S	
33	Saguaro	55	PIP	
34	Ironwood	24	S	
35	Ironwood	20	NS	Exposed Roots / Mistletoe
36	Ironwood	24	NS	Exposed Roots / Cambium Damage
37	Blue Palo Verde	8	PIP	Prune as Necessary for Clearance
38	Mesquite	18	PIP	Prune as Necessary for Clearance
39	Blue Palo Verde	12	PIP	
40	Hackberry	30	PIP	
41	Foothills Palo Verde	28	PIP	
42	Catalaw Acacia	6	PIP	
43	Foothills Palo Verde	20	PIP	
44	Blue Palo Verde	10	NS	Trunk Form / In Wash
45	Blue Palo Verde	18	NS	Branch Dieback / In Wash
46	Blue Palo Verde	5	PIP	
47	Blue Palo Verde	7	PIP	
48	Blue Palo Verde	4	PIP	
49	Blue Palo Verde	16	NS	Trunk Form / Poor Structure
50	Foothills Palo Verde	4	PIP	
51	Foothills Palo Verde	8	PIP	
52	Foothills Palo Verde	6	PIP	
53	Blue Palo Verde	10	PIP	
54	Foothills Palo Verde	6	S	
55	Saguaro	48	NS	5 arms / Declining
56	Foothills Palo Verde	4	S	
57	Mesquite	4	S	
58	Foothills Palo Verde	4	S	
59	Foothills Palo Verde	4	NS	In Wash / On Slope
60	Foothills Palo Verde	10	PIP	Prune as Necessary for Clearance
61	Foothills Palo Verde	5	PIP	Prune as Necessary for Clearance
62	Foothills Palo Verde	4	S	
63	Foothills Palo Verde	4	S	
64	Foothills Palo Verde	4	S	
65	Foothills Palo Verde	4	S	
66	Foothills Palo Verde	4	S	
67	Foothills Palo Verde	4	PIP	Prune as Necessary for Clearance
68	Foothills Palo Verde	4	PIP	Prune as Necessary for Clearance
69	Foothills Palo Verde	22	PIP	Prune as Necessary for Clearance
70	Foothills Palo Verde	6	PIP	Prune as Necessary for Clearance

NATIVE PLANT STATUS LEGEND	TREE	CACTI
S = SALVAGE	11	1
NS = NON-SALVAGE	7	1
PIP = PROTECT-IN-PLACE	42	8

* Adjust Guy Wires & Tree Stakes as Necessary for Clearance

GENERAL NOTES

1. THE SALVAGING CONTRACTOR SHALL REVIEW THIS PROJECT WITH THE CITY ENGINEER PRIOR TO STARTING WORK.
2. ALL SALVAGING OPERATIONS WORK SHALL CONFORM TO M.A.G. STANDARD SPECIFICATIONS AND DETAILS AND THE CITY OF SCOTTSDALE M.A.G. SUPPLEMENTAL SPECIFICATIONS AND SUPPLEMENTAL STANDARD DETAILS (MAG).
3. SHOULD THE SALVAGING CONTRACTOR HAVE ANY QUESTIONS REGARDING THESE PLANS AND SPECIFICATIONS OR SHOULD THERE BE ANY DISCREPANCIES, THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER FOR CLARIFICATION BEFORE PROCEEDING FURTHER WITH ANY OTHER WORK.
4. THE SALVAGING CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH THE UNDERGROUND UTILITIES, PIPES AND STRUCTURES. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
5. THE SALVAGING CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
6. THE SALVAGING CONTRACTOR SHALL VERIFY AND ACCEPT ALL SITE CONDITIONS AND ROUGH GRADES PRIOR TO STARTING ANY WORK.
7. THE SALVAGE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON THESE PLANS.

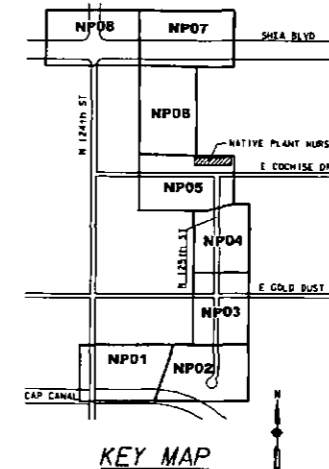
SALVAGE OPERATIONS NOTES

1. THE CONTRACTOR SHALL SUBMIT A SALVAGE OPERATIONS PLAN FOR REVIEW AND APPROVAL BY THE CITY ENGINEER AND LANDSCAPE ARCHITECT PRIOR TO BEGINNING ANY GROUND BREAKING WORK BY THE CONTRACTOR. THE SALVAGE OPERATIONS PLAN SHALL BE CONTAINED IN A THREE RING BINDER(S) AND SHALL BE TYPED ON 8 INCH x 11 INCH SHEETS. THE CONTRACTOR SHALL SUBMIT FOUR (4) COPIES OF THE SALVAGE OPERATIONS PLAN TO THE CITY ENGINEER AT THE PRE-CONSTRUCTION MEETING.
2. THE SALVAGE OPERATIONS PLAN SHALL CONTAIN AS A MINIMUM THE FOLLOWING ITEMS AND THE PLAN SHALL CONFORM TO THE DETAILS SHOWN ON THE PROJECT PLANS.
 - A. THE SALVAGE OPERATIONS PLAN SHALL CLEARLY DEMONSTRATE TO THE CITY HOW THE CONTRACTOR'S SALVAGE OPERATIONS METHODS AND APPROACH WILL BE ACCOMPLISHED FROM APRIL 1 THROUGH 30.
 - B. METHODS FOR THE COORDINATING THE SALVAGE AND SALVAGE PLANTING OF ALL LOCAL STOCK WITH ANTICIPATED PHASING AND SEQUENCING OF CONSTRUCTION PER STATIONING LIMITS AND THE DEVELOPMENT OF TEMPORARY NURSERY.
 - C. EXISTING AND FINAL LOCATION OF EACH LOCAL STOCK (IF DIFFERENT THAN SHOWN ON THE PLANS).
 - D. IDENTIFICATION NUMBERS OF EACH LOCAL STOCK ITEM (IF DIFFERENT THAN SHOWN ON THE PLANS).
 - E. SOURCES OF COLLECTED/OPEN STOCK (IF REQUIRED TO SUPPLY REPLACEMENTS OF THE MATERIALS THAT ARE LOST DUE TO EXCESSIVE MORTALITY ON THE PROJECT).
 - F. A SECTION THAT IDENTIFIES ALL PROPOSED NURSERY LOCATIONS. THIS SECTION SHALL INCLUDE A PHOTO INVENTORY OF THE EXISTING CONDITIONS OF THE NURSERY LOCATION AND THE CONTRACTORS PROPOSED RE-ESTABLISHMENT OF THE AREAS DISTURBED AS PART OF THE NURSERY DEVELOPMENT.
 - G. A LIST OF ALL MATERIALS AND EQUIPMENT PROPOSED FOR INCORPORATION INTO THE WORK. THE CONTRACTOR SHALL HAVE MATERIALS AND EQUIPMENT CORRECTLY MARKED ON EACH COPY OF THE LIST. THE LIST SHALL SHOW THE CATALOGUE NUMBERS, MANUFACTURER'S NAMES MODEL NUMBERS, SIZES, CAPACITY, COMPLETE SPECIFICATIONS, INSTRUCTIONS, DESIGN DATA AND/OR DRAWINGS TO DETERMINE WHETHER OR NOT EACH PIECE OF MATERIAL OR EQUIPMENT IS ACCEPTABLE.
3. THE CITY ENGINEER WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE RECOMMENDATIONS WITHIN THE SALVAGE OPERATIONS PLAN AND WILL NOTIFY THE CONTRACTOR WITHIN 21 DAYS OF THE ACCEPTABILITY OF THE PLAN.
4. THE CITY RESERVES THE RIGHT TO REJECT AT ANY TIME THE CONTRACTORS SALVAGE OPERATIONS PLAN BASED ON THE REVIEW OF THE QUALIFICATIONS STATEMENT AND/OR PERFORMANCE OF THE WORK HEREIN.
5. THE WORK SHALL ALSO INCLUDE:
 - A. THE MACHINERY, EQUIPMENT, LABOR AND MATERIALS REQUIRED TO PROVIDE AND SUPPLY ALL BOXING MATERIALS, IRRIGATION WATER, CONSTRUCT AND MAINTAIN THE NURSERY.
 - B. TRANSPORTING THE LOCAL STOCK TO THE NURSERY.
 - C. DISTRIBUTING WATER TO THE PLANTS FROM THE INITIATION OF THE SALVAGING OPERATIONS AND/OR FROM THE TIME OF PLACEMENT OF THE PLANTS IN THE NURSERY AS APPLICABLE.
 - D. PREPARATION OF PLANTING PITS IN THE NURSERY AND AT THE FINAL PLANTING LOCATION, INCLUDING EXCAVATING AND BACK FILLING.
 - E. THE DOCUMENTATION, MEASUREMENT, AND INSPECTION OF LOCAL STOCK AS IDENTIFIED HEREIN.
 - F. THE PREPARATION, MODIFICATIONS AND REPRODUCTION OF A SALVAGE OPERATIONS PLAN.
 - G. SUPPLY AND INSTALLATION OF ANY REQUIRED CHEMICAL SOLUTIONS, FERTILIZERS AND AMENDMENTS.

J2 engineering and environmental design
4649 east cotton gin loop, suite B2
phoenix, arizona 85040
phone: 602.438.2221
www.j2designus.com

NATIVE PLANTS, EROSION CONTROL, LANDSCAPE, AND HARDSCAPE SHEET INDEX

NATIVE PLANT INVENTORY AND NOTES	NPS01
NATIVE PLANT DETAILS	NP001 - NP002
NATIVE PLANT INVENTORY PLANS	NP01 - NP09
AZPDES SWPPP INDEX SHEET	EC001
EROSION CONTROL SUMMARY	EC002
EROSION CONTROL DETAILS	EC001 - EC005
EROSION CONTROL PLANS	EC01 - EC09
LANDSCAPE NOTES AND SUMMARY	LS01
LANDSCAPE NOTES AND SUMMARY	LS02
LANDSCAPE DETAILS	LD01 - LD04
LANDSCAPE PLANS	LP01 - LP09
HARDSCAPE PLANS	HP01 - HP09

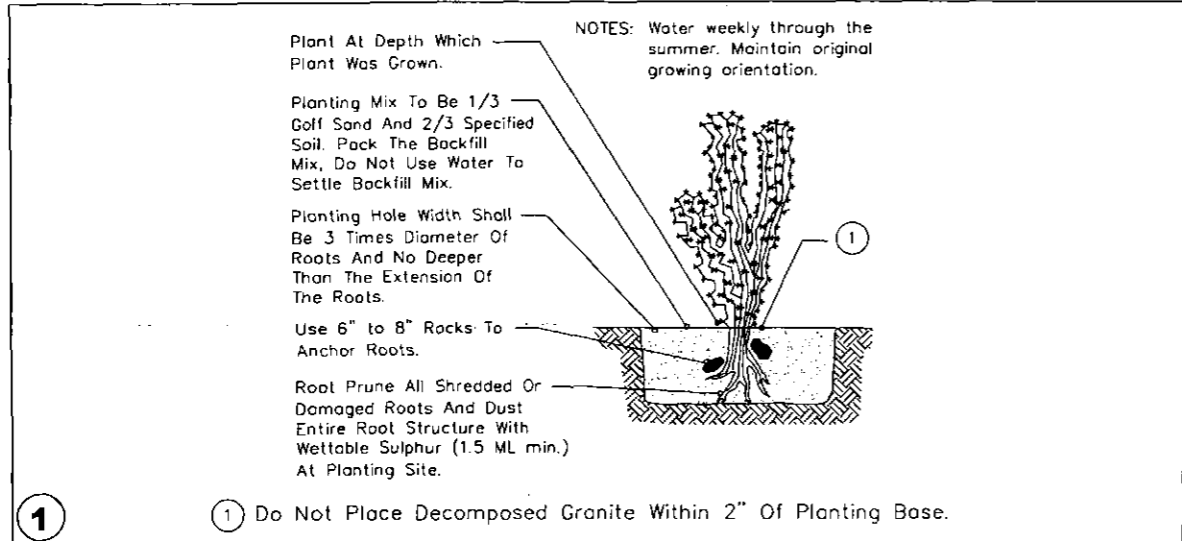


ARIZONA BLUE STAKE
CALL THE MORNING AFTER BEFORE YOU GO
Dial 811 or 602-283-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

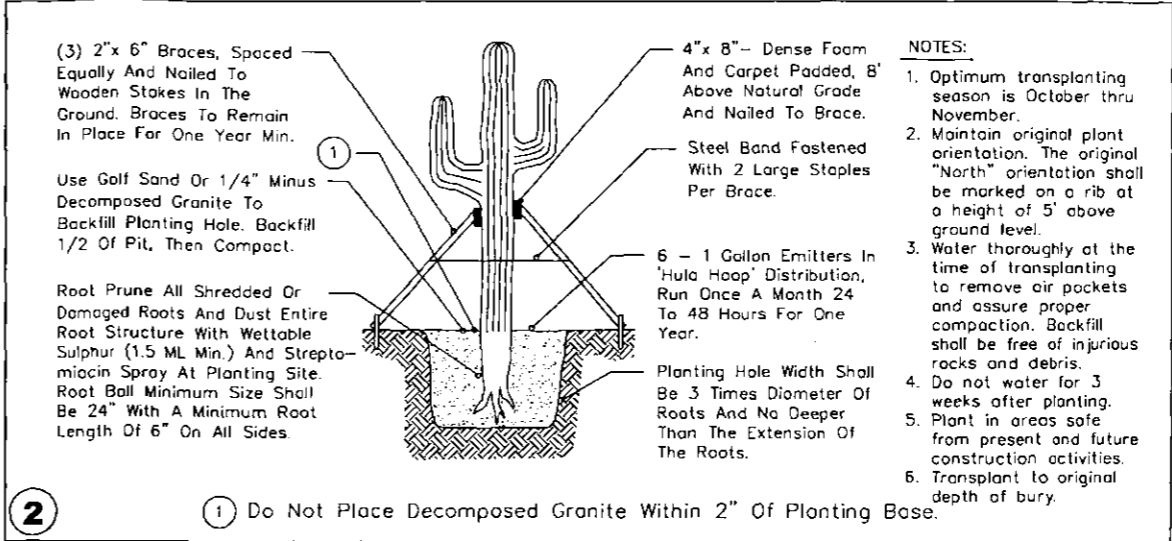
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ENGINEER		
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SHEET TITLE NATIVE PLANT INVENTORY AND NOTES		
PROJECT TITLE SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ.	RC	1/16
VERT.	J2	AS-BUILT
	RTO NO.	SHT.
	16BP020	NPS01
	PROJECT NO.	48 OF 105

Native plant

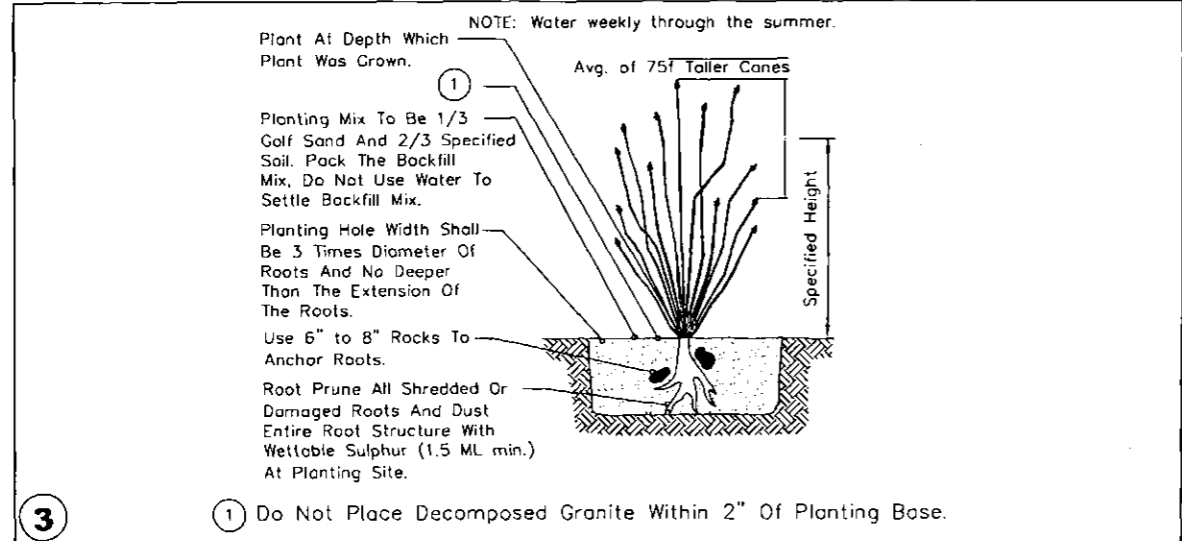
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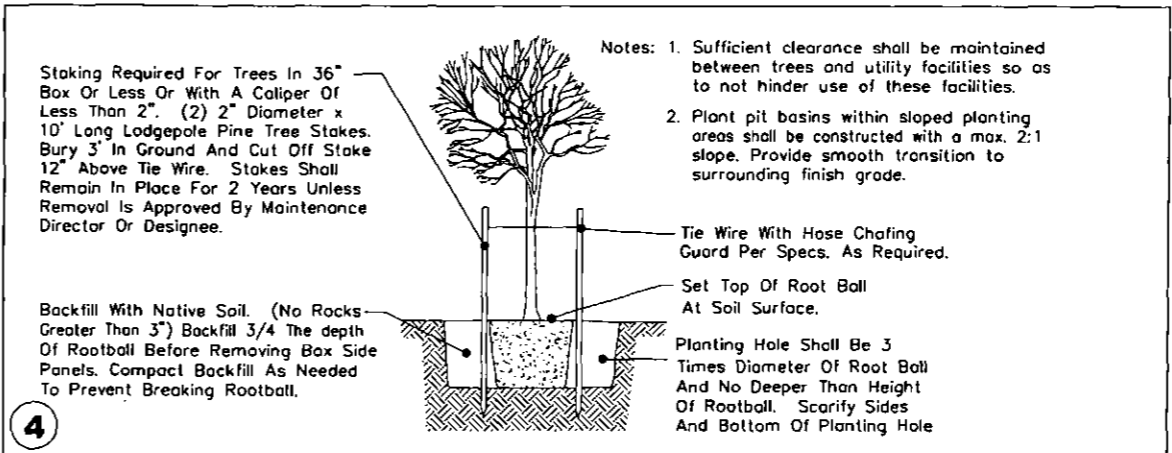
DETAIL NO. 2620-2 City of Scottsdale Standard Details
 APPROVED BY: Scottsdale Standards & Specifications Committee
 Cactus Planting



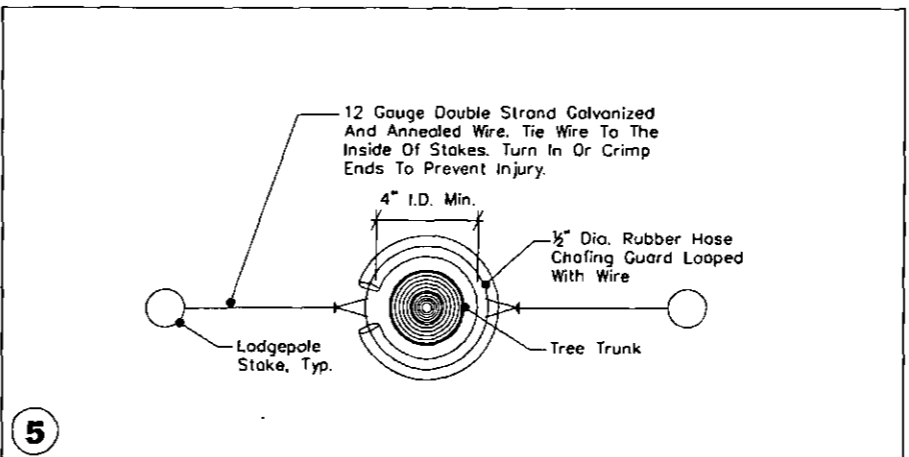
DETAIL NO. 2620-2 City of Scottsdale Standard Details
 APPROVED BY: Scottsdale Standards & Specifications Committee
 Saguaro Planting Type B



DETAIL NO. 2620-2 City of Scottsdale Standard Details
 APPROVED BY: Scottsdale Standards & Specifications Committee
 Ocotillo Planting



DETAIL NO. 2620-3 City of Scottsdale Standard Details
 Salvaged Tree Planting

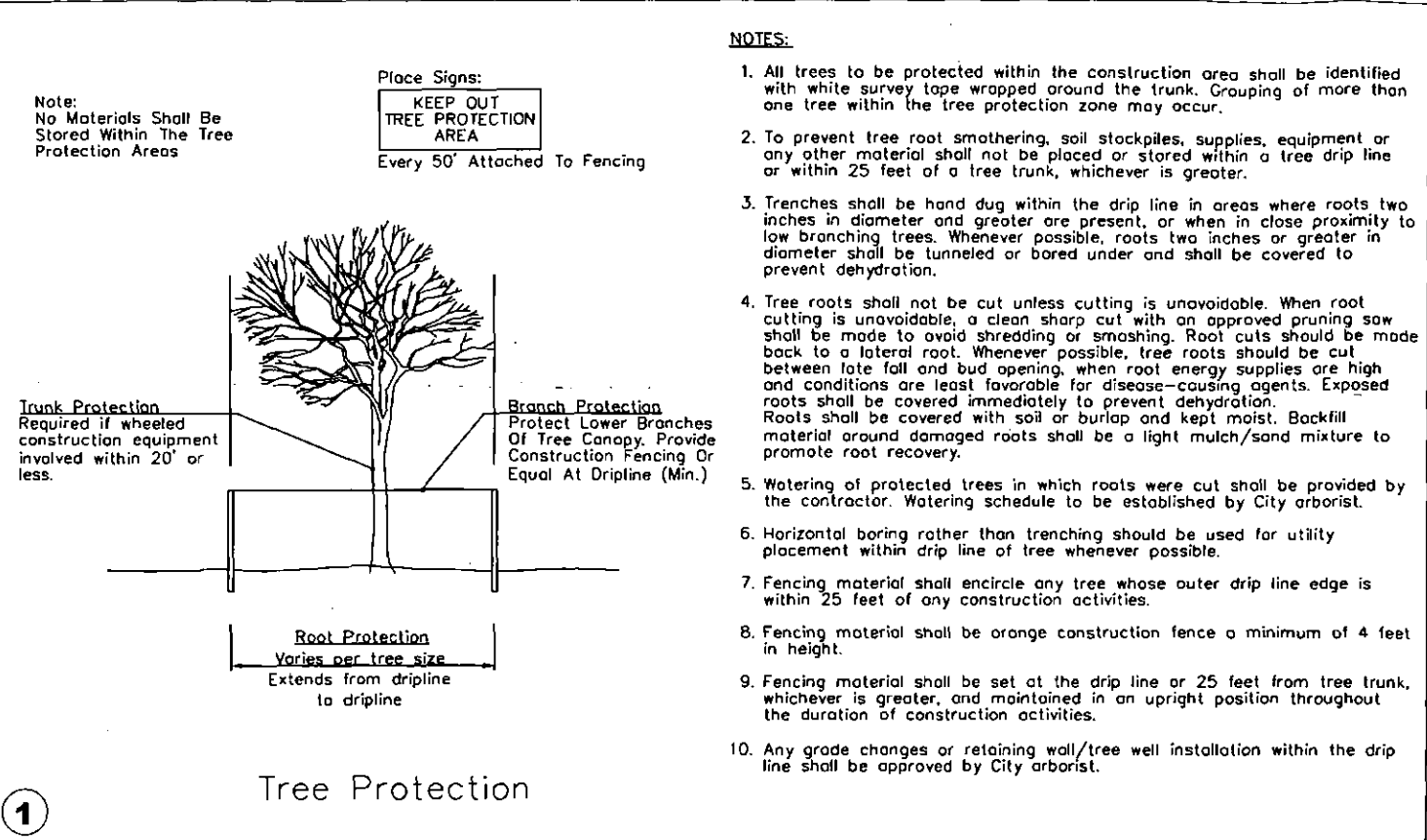


DETAIL NO. 2620-3 City of Scottsdale Standard Details
 Tree Staking-Plan View

ARIZONA BLUE STAKE
 CALL THE WORKING GUYS BEYOND YOU SITE
 Dial 811 or 602-263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

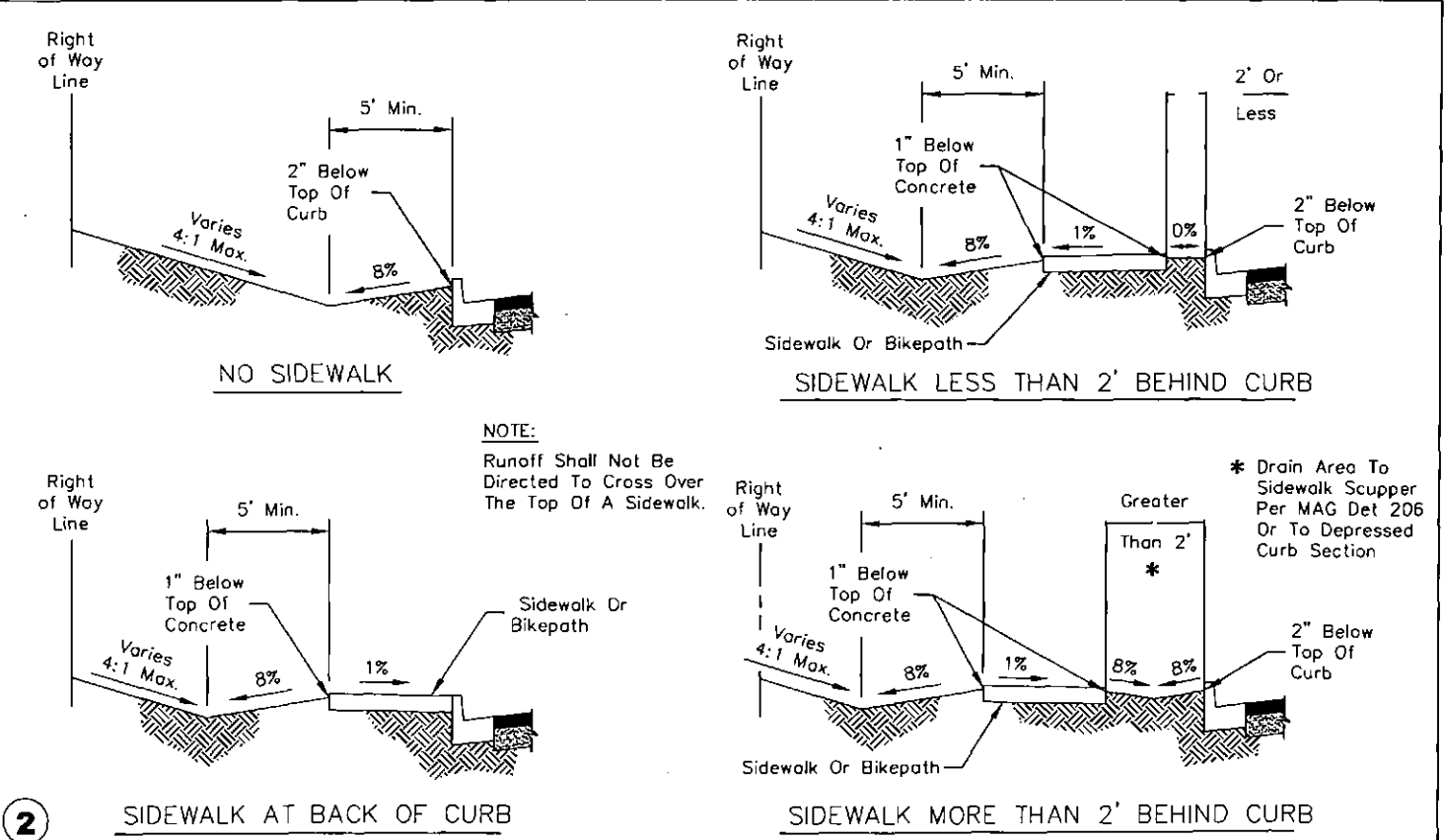
DATE	REVISION	BY
PUBLIC WORKS		
CAPITAL PROJECT MANAGEMENT		
97447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
NATIVE PLANT DETAILS		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
VERT.	RC	1/16
	DRAWN	AS-BUILT
	J2	
SHEET NO.		SHT.
16BP020		NPD01
PROJECT NO.		49 OF 105

XXX-XX



- NOTES:**
- All trees to be protected within the construction area shall be identified with white survey tape wrapped around the trunk. Grouping of more than one tree within the tree protection zone may occur.
 - To prevent tree root smothering, soil stockpiles, supplies, equipment or any other material shall not be placed or stored within a tree drip line or within 25 feet of a tree trunk, whichever is greater.
 - Trenches shall be hand dug within the drip line in areas where roots two inches in diameter and greater are present, or when in close proximity to low branching trees. Whenever possible, roots two inches or greater in diameter shall be tunneled or bored under and shall be covered to prevent dehydration.
 - Tree roots shall not be cut unless cutting is unavoidable. When root cutting is unavoidable, a clean sharp cut with an approved pruning saw shall be made to avoid shredding or smashing. Root cuts should be made back to a lateral root. Whenever possible, tree roots should be cut between late fall and bud opening, when root energy supplies are high and conditions are least favorable for disease-causing agents. Exposed roots shall be covered immediately to prevent dehydration. Roots shall be covered with soil or burlap and kept moist. Backfill material around damaged roots shall be a light mulch/sand mixture to promote root recovery.
 - Watering of protected trees in which roots were cut shall be provided by the contractor. Watering schedule to be established by City arborist.
 - Horizontal boring rather than trenching should be used for utility placement within drip line of tree whenever possible.
 - Fencing material shall encircle any tree whose outer drip line edge is within 25 feet of any construction activities.
 - Fencing material shall be orange construction fence a minimum of 4 feet in height.
 - Fencing material shall be set at the drip line or 25 feet from tree trunk, whichever is greater, and maintained in an upright position throughout the duration of construction activities.
 - Any grade changes or retaining wall/tree well installation within the drip line shall be approved by City arborist.

DETAIL NO. 2620-4 City of Scottsdale Standard Details APPROVED BY: Scottsdale Standards & Specifications Committee LANDSCAPE DETAILS DETAIL NO. 2620-4



DETAIL NO. 2210 City of Scottsdale Standard Details APPROVED BY: Scottsdale Standards & Specifications Committee GRADING BEHIND THE CURB DETAIL NO. 2210

ARIZONA BLUE STAKE
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 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 1441 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85261		
SHEET TITLE NATIVE PLANT DETAILS		
PROJECT TITLE SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ.	RC	1/16
VERT.	J2	AS-BUILT
PROJECT NO. 168P020		SHEET NO. NPD02
50 OF 105		XXX-XX

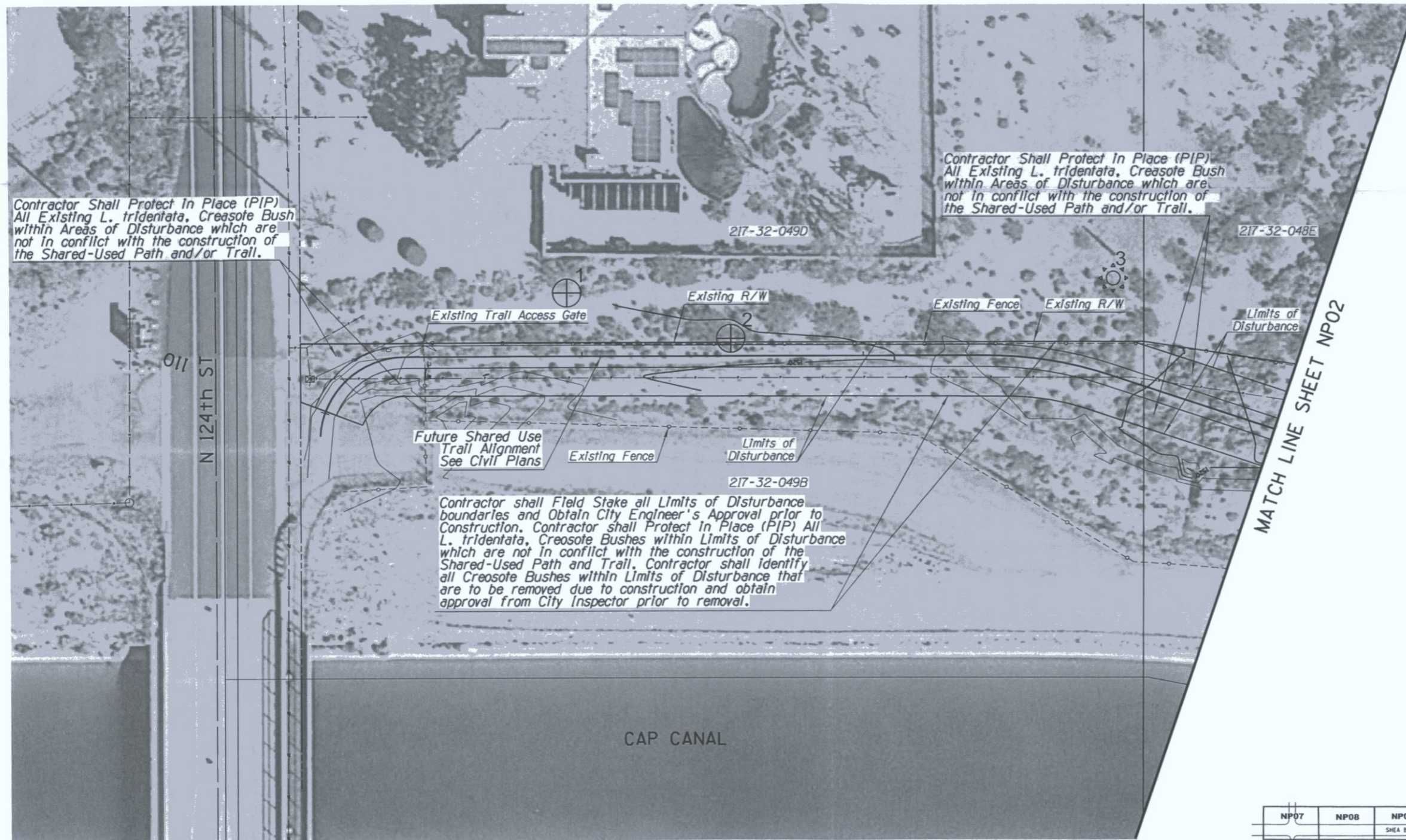
NATIVE PLANT INVENTORY

PLANT #	COMMON NAME	CALIPER (in)/ HEIGHT (ft)	STATUS
1	Foothills Palo Verde	7	PIP
2	Ironwood	4	PIP
3	Barrel	3	PIP

STATUS LEGEND	TREE	CACTI
S = SALVAGEABLE	0	0
NS = NON-SALVAGEABLE	0	0
PIP = PROTECT-IN-PLACE	2	1

NOTES:

1. NATIVE PLANTS SHALL BE SALVAGED AND STORED WITHIN TEMPORARY NURSERY AS PART OF THIS PROJECT.
2. SEE SHEET NP05 FOR TEMPORARY NURSERY LOCATION.

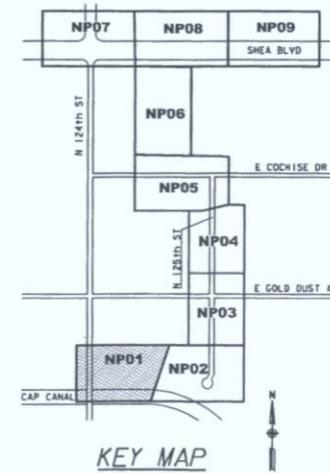
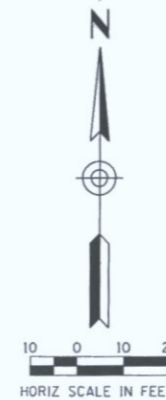


MATCH LINE SHEET NP02



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 Phoenix, AZ. 85085
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 (OUTSIDE MARICOPA COUNTY)



DATE	REVISION	BY
9/30/2017		

	PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
--	--

SHEET TITLE NATIVE PLANT INVENTORY			
PROJECT TITLE SHEAR BLVD UNDERPASS ACCESS FROM SHEAR BLVD TO CAP CANAL			
SCALE	DESIGNED	DATE	BID NO.
HORIZ. 1"=20'	RC	1/16	16BP020
VERT.	DRAWN	AS-BUILT	PROJECT NO.
	J2		

XXX-XX

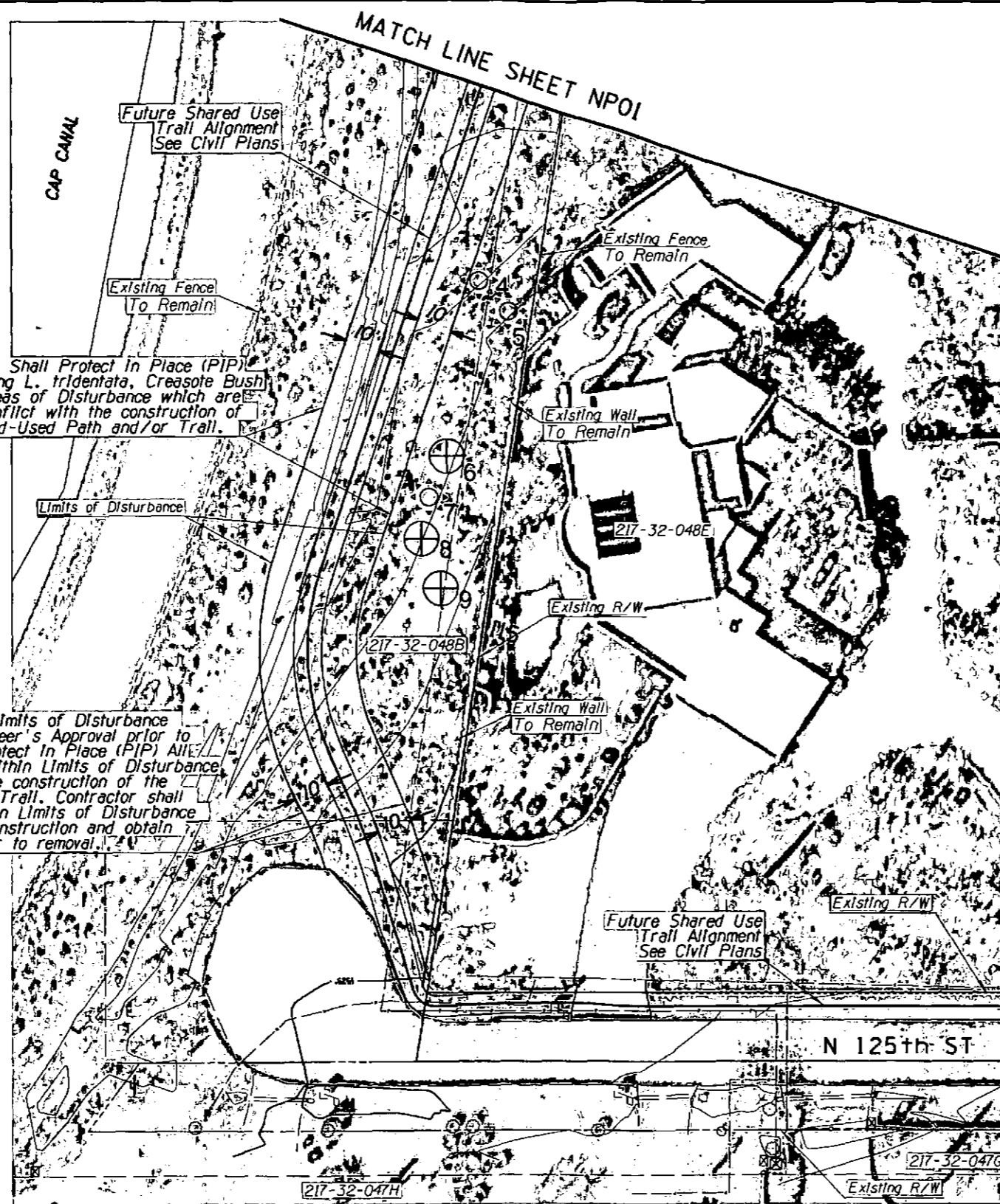
NATIVE PLANT INVENTORY

PLANT #	COMMON NAME	CALIPER (in)/ HEIGHT (ft)	STATUS
4	Barrel	4	PIP
5	Saguaro	80	PIP
6	Mesquite	4	PIP
7	Saguaro	10	PIP
8	Mesquite	6	PIP
9	Mesquite	22	PIP

STATUS LEGEND	TREE	CACTI
S = SALVAGEABLE	0	0
NS = NON-SALVAGEABLE	0	0
PIP = PROTECT-IN-PLACE	3	3

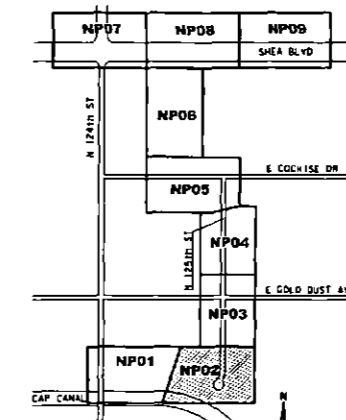
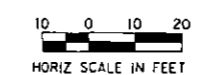
NOTES:

1. NATIVE PLANTS SHALL BE SALVAGED AND STORED WITHIN TEMPORARY NURSERY AS PART OF THIS PROJECT.
2. SEE SHEET NP05 FOR TEMPORARY NURSERY LOCATION.



Contractor Shall Protect In Place (PIP) All Existing L. tridentata, Creosote Bush within Areas of Disturbance which are not in conflict with the construction of the Shared-Used Path and/or Trail.

Contractor shall Field Stake all Limits of Disturbance boundaries and Obtain City Engineer's Approval prior to Construction. Contractor shall Protect In Place (PIP) All L. tridentata, Creosote Bushes within Limits of Disturbance which are not in conflict with the construction of the Proposed Shared-Used Path and Trail. Contractor shall identify all Creosote Bushes within Limits of Disturbance that are to be removed due to construction and obtain approval from City Inspector prior to removal.



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 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

DATE	REVISION	BY
9/30/2017		

ENGINEER: JEFFREY M. ENGELMANN
 PUBLIC WORKS
 CAPITAL PROJECT MANAGEMENT
 1447 E. INDIAN SCHOOL RD.
 SCOTTSDALE, ARIZONA 85251

SHEET TITLE: **NATIVE PLANT INVENTORY**

PROJECT TITLE: **SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL**

SCALE	DESIGNED	DATE	SHEET NO.	TOTAL SHEETS
HORIZ. 1"=20'	RC	1/16	16BP020	NP02
VERT.	JZ	AS-BUILT	PROJECT NO.	52 OF 105

XXX-XX

NATIVE PLANT INVENTORY

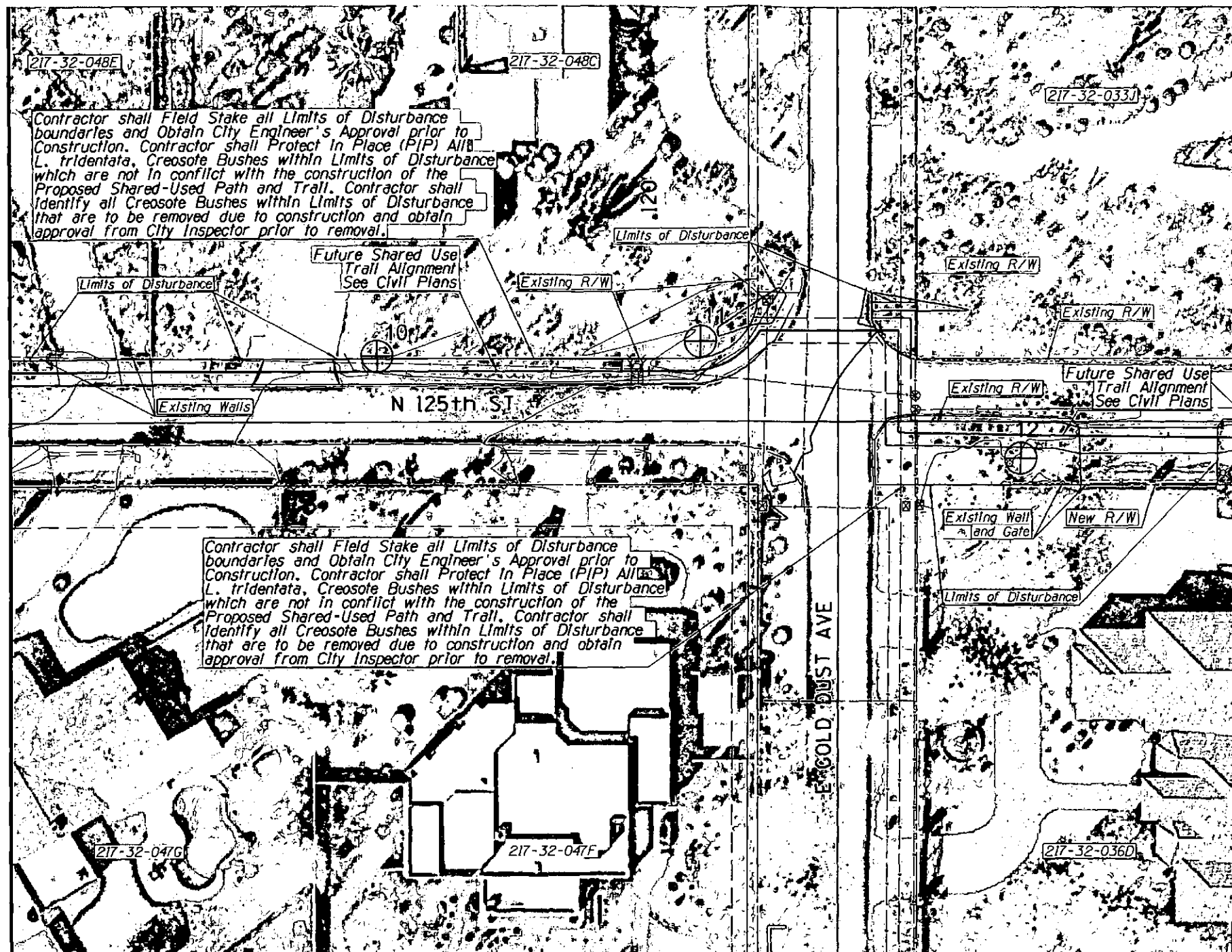
PLANT #	COMMON NAME	CALIPER (in)/ HEIGHT (ft)	STATUS
10	Foothills Palo Verde	10	PIP
11	Foothills Palo Verde	12	PIP
12	Mesquite	12	PIP

STATUS LEGEND	TREE	CACTI
S = SALVAGEABLE	0	0
NS = NON-SALVAGEABLE	0	0
PIP = PROTECT-IN-PLACE	3	0

NOTES:

1. NATIVE PLANTS SHALL BE SALVAGED AND STORED WITHIN TEMPORARY NURSERY AS PART OF THIS PROJECT.
2. SEE SHEET NP05 FOR TEMPORARY NURSERY LOCATION.

MATCH LINE SHEET NP02

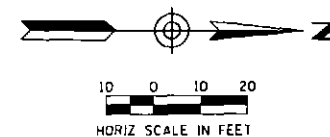
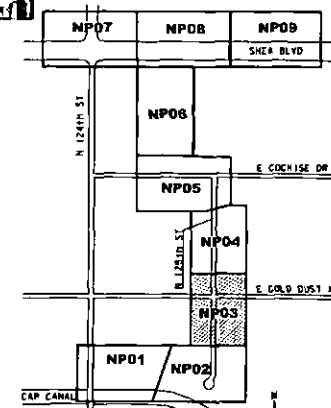


MATCH LINE SHEET NP04



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ARIZONA BLUE STAKE
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 (OUTSIDE MARICOPA COUNTY)



DATE	REVISION	BY
PUBLIC WORKS		
CAPITAL PROJECT MANAGEMENT		
1447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		

SHEET TITLE				
NATIVE PLANT INVENTORY				
PROJECT TITLE				
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL				
SCALE	DESIGNED	DATE	RID. NO.	SHT.
HORIZ. 1"=20'	RC	1/16	16BP020	NP03
VERT.	DRAWN	AS-BUILT	PROJECT NO.	53 OF 105
	J2			

XXX-XX

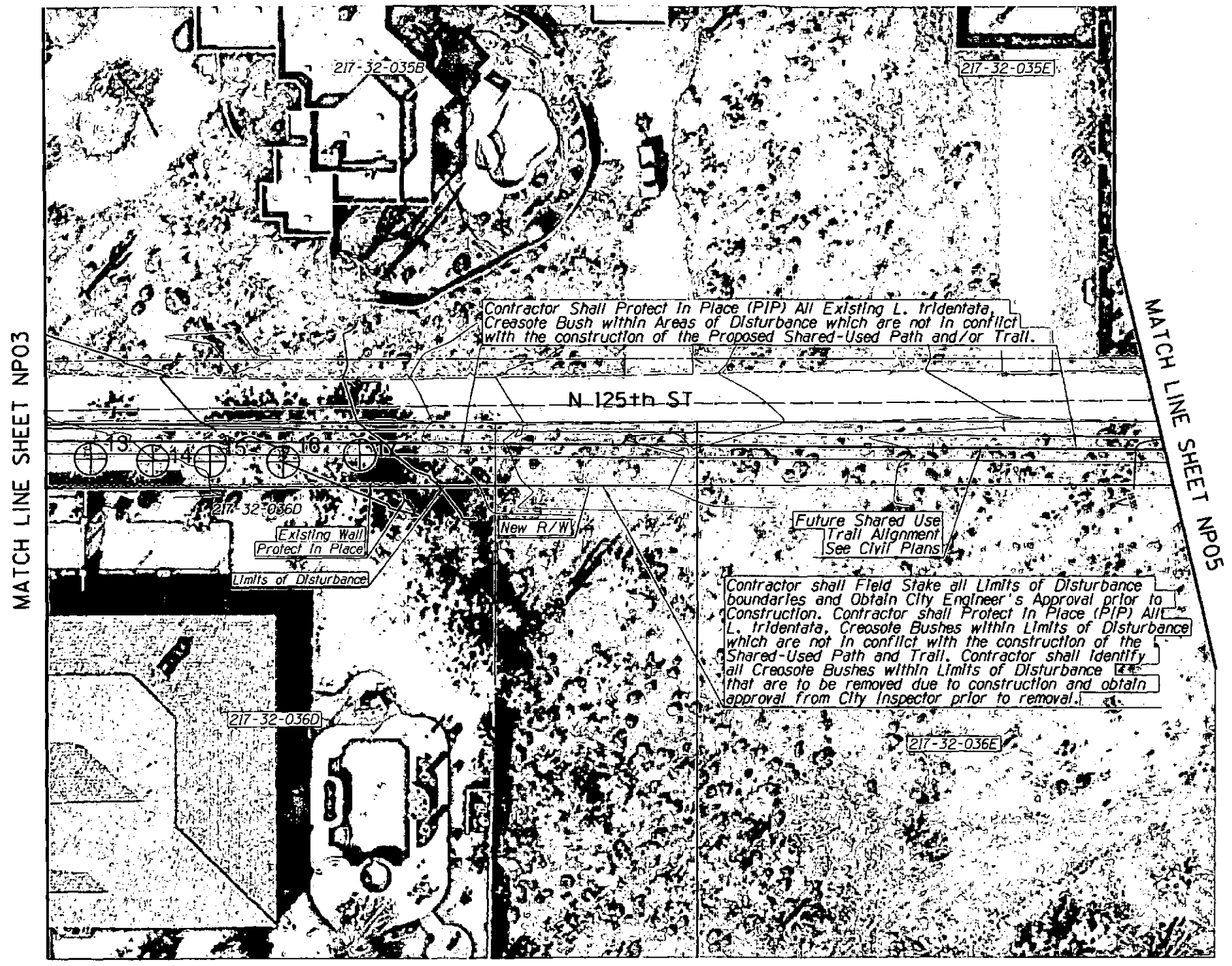
NATIVE PLANT INVENTORY

PLANT #	COMMON NAME	CALIPER (in)/ HEIGHT (ft)	STATUS
13	Mesquite	9	PIP
14	Mesquite	4	PIP
15	Mesquite	8	PIP
16	Hybrid Palo Verde	9	PIP
17	Blue Palo Verde	9	S

STATUS LEGEND	TREE	CACTI
S = SALVAGEABLE	1	0
NS = NON-SALVAGEABLE	0	0
PIP = PROTECT-IN-PLACE	4	0

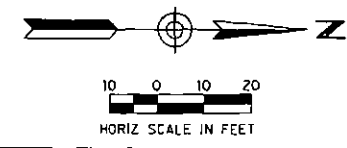
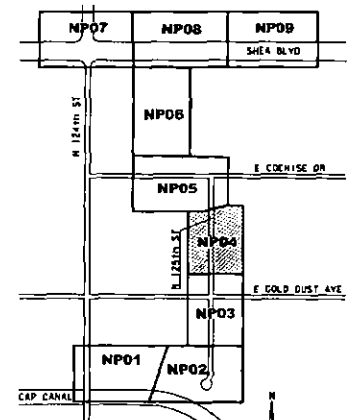
NOTES:

1. NATIVE PLANTS SHALL BE SALVAGED AND STORED WITHIN TEMPORARY NURSERY AS PART OF THIS PROJECT.
2. SEE SHEET NP05 FOR TEMPORARY NURSERY LOCATION.



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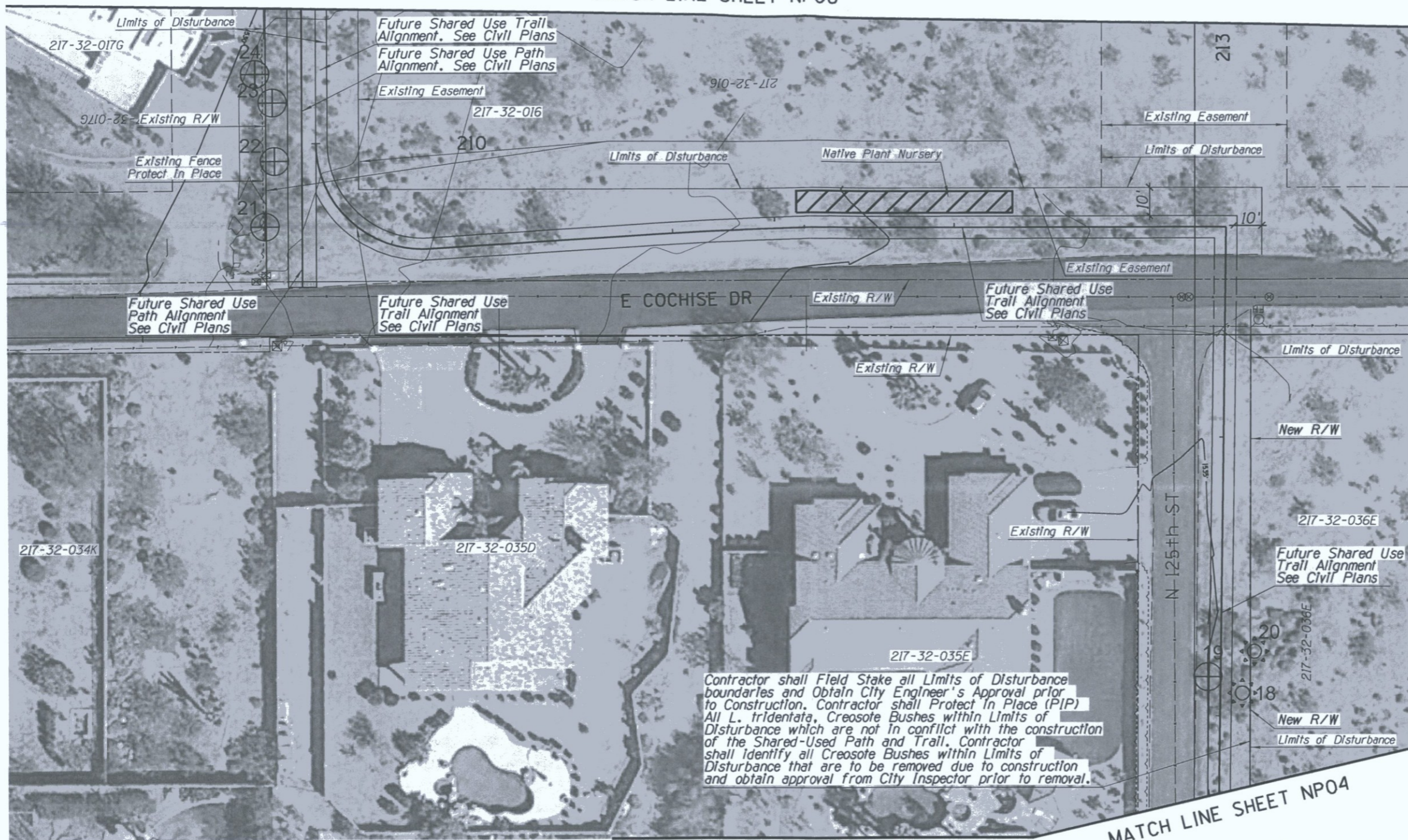
ARIZONA BLUE STAKE
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 (OUTSIDE MARICOPA COUNTY)



DATE	REVISION	BY
ENGINEER		
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE NATIVE PLANT INVENTORY		
PROJECT TITLE SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
SHEET NO. 16BP020		SHEET NP04
PROJECT NO.		OF 105

XXX-XX

MATCH LINE SHEET NP06



Contractor shall Field Stake all Limits of Disturbance boundaries and Obtain City Engineer's Approval prior to Construction. Contractor shall Protect In Place (PIP) All *L. tridentata*, Creosote Bushes within Limits of Disturbance which are not in conflict with the construction of the Shared-Used Path and Trail. Contractor shall Identify all Creosote Bushes within Limits of Disturbance that are to be removed due to construction and obtain approval from City Inspector prior to removal.

NATIVE PLANT INVENTORY

PLANT #	COMMON NAME	CALIPER (In)/ HEIGHT (ft)	STATUS
18	Barrel	3	PIP
19	Whitethorn Acacia	6	NS
20	Saguaro	13	PIP
21	Foothills Palo Verde	8	PIP
22	Foothills Palo Verde	8	PIP
23	Foothills Palo Verde	14	PIP
24	Foothills Palo Verde	4	PIP

STATUS LEGEND	TREE	CACTI
S = SALVAGEABLE	0	0
NS = NON-SALVAGEABLE	1	0
RIP = PROTECT-IN-PLACE	4	2

NOTES:

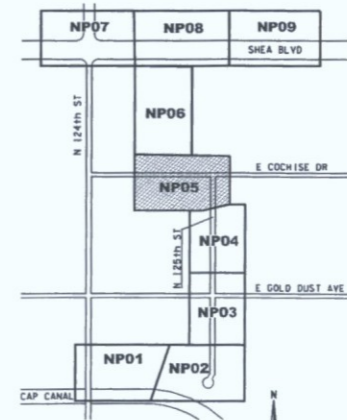
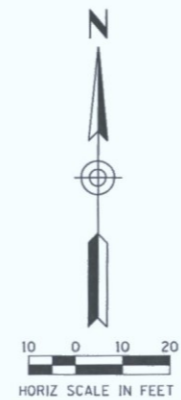
1. NATIVE PLANTS SHALL BE SALVAGED AND STORED WITHIN TEMPORARY NURSERY AS PART OF THIS PROJECT.
2. SEE SHEET NP05 FOR TEMPORARY NURSERY LOCATION.

MATCH LINE SHEET NP04



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DATE	REVISION	BY
ENGINEER		
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE: NATIVE PLANT INVENTORY		
PROJECT TITLE: SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
SHEET NO. 55 OF 105		PROJECT NO. 16BP020

NATIVE PLANT INVENTORY

PLANT #	COMMON NAME	CALIPER (In)/ HEIGHT (ft)	STATUS
25	Hackberry	60	PIP
26	Foothills Palo Verde	20	PIP
27	Foothills Palo Verde	19	PIP
28	Ironwood	20	PIP
29	Foothills Palo Verde	24	PIP
30	Ironwood	9	PIP
31	Barrel	5	PIP
32	Saguaro	11	S
33	Saguaro	55	PIP
34	Ironwood	24	S
35	Ironwood	20	NS
36	Ironwood	24	NS
37	Blue Palo Verde	8	PIP
38	Mesquite	18	PIP
39	Blue Palo Verde	12	PIP
40	Hackberry	30	PIP
41	Foothills Palo Verde	28	PIP
42	Catclaw Acacia	6	PIP
43	Foothills Palo Verde	20	PIP
44	Blue Palo Verde	10	NS
45	Blue Palo Verde	18	NS
46	Blue Palo Verde	5	PIP
47	Blue Palo Verde	7	PIP
48	Blue Palo Verde	4	PIP

STATUS LEGEND	TREE	CACTI
S = SALVAGEABLE	1	1
NS = NON-SALVAGEABLE	4	0
PIP = PROTECT-IN-PLACE	16	2

NOTES:

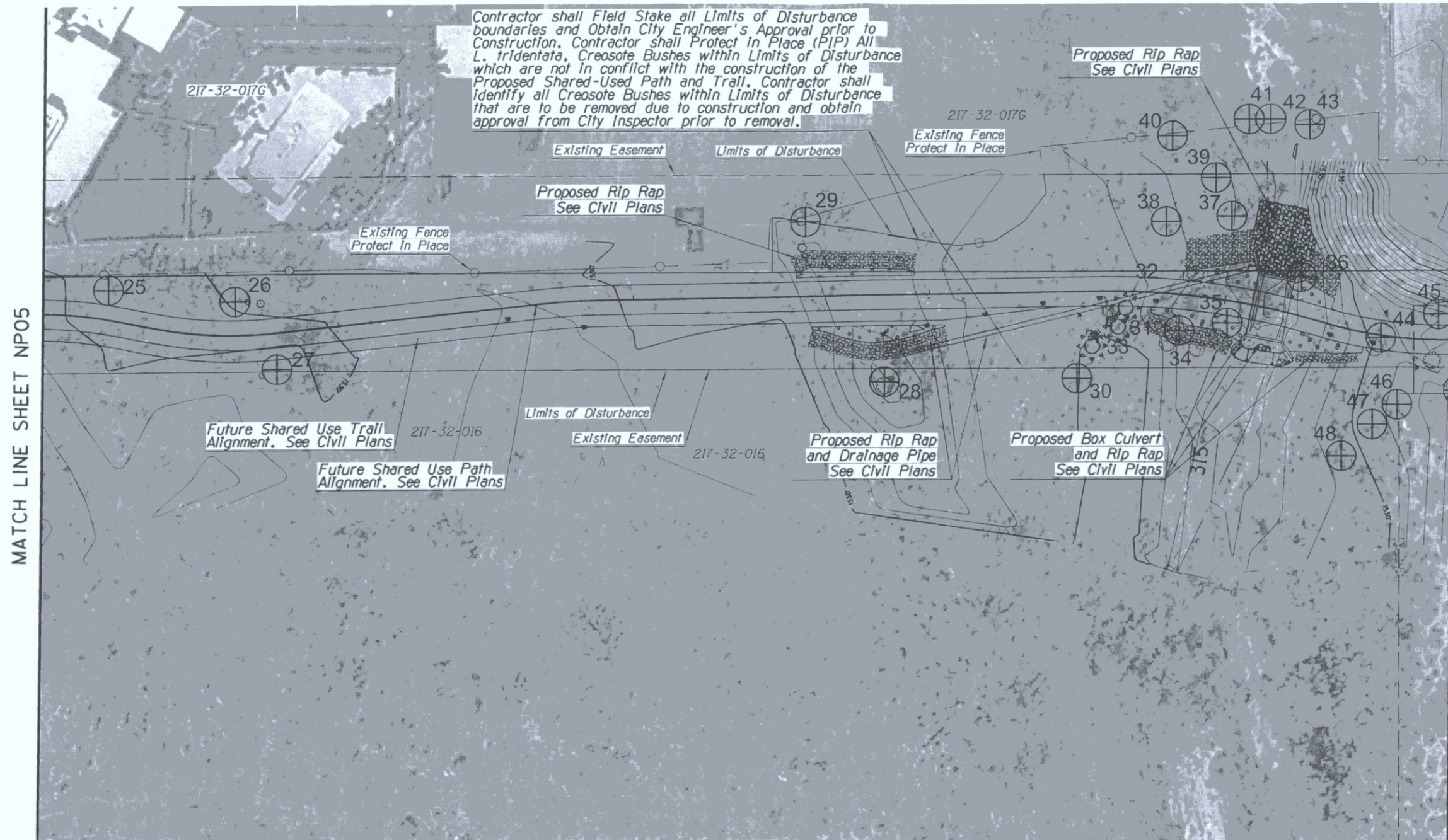
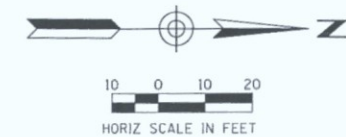
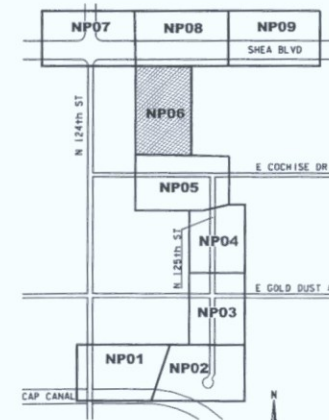
1. NATIVE PLANTS SHALL BE SALVAGED AND STORED WITHIN TEMPORARY NURSERY AS PART OF THIS PROJECT.
2. SEE SHEET NP05 FOR TEMPORARY NURSERY LOCATION.



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DATE	REVISION	BY
ENGINEER		
		PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251
SHEET TITLE NATIVE PLANT INVENTORY		
PROJECT TITLE SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE HORIZ. 1"=20'	DESIGNED RC	DATE 1/16
VERT.	DRAWN J2	AS-BUILT
		BID NO. 16BP020
		PROJECT NO.
		SHT. NP06
		56 OF 105



MATCH LINE SHEET NP05

MATCH LINE SHEET NP08

XXX-XX

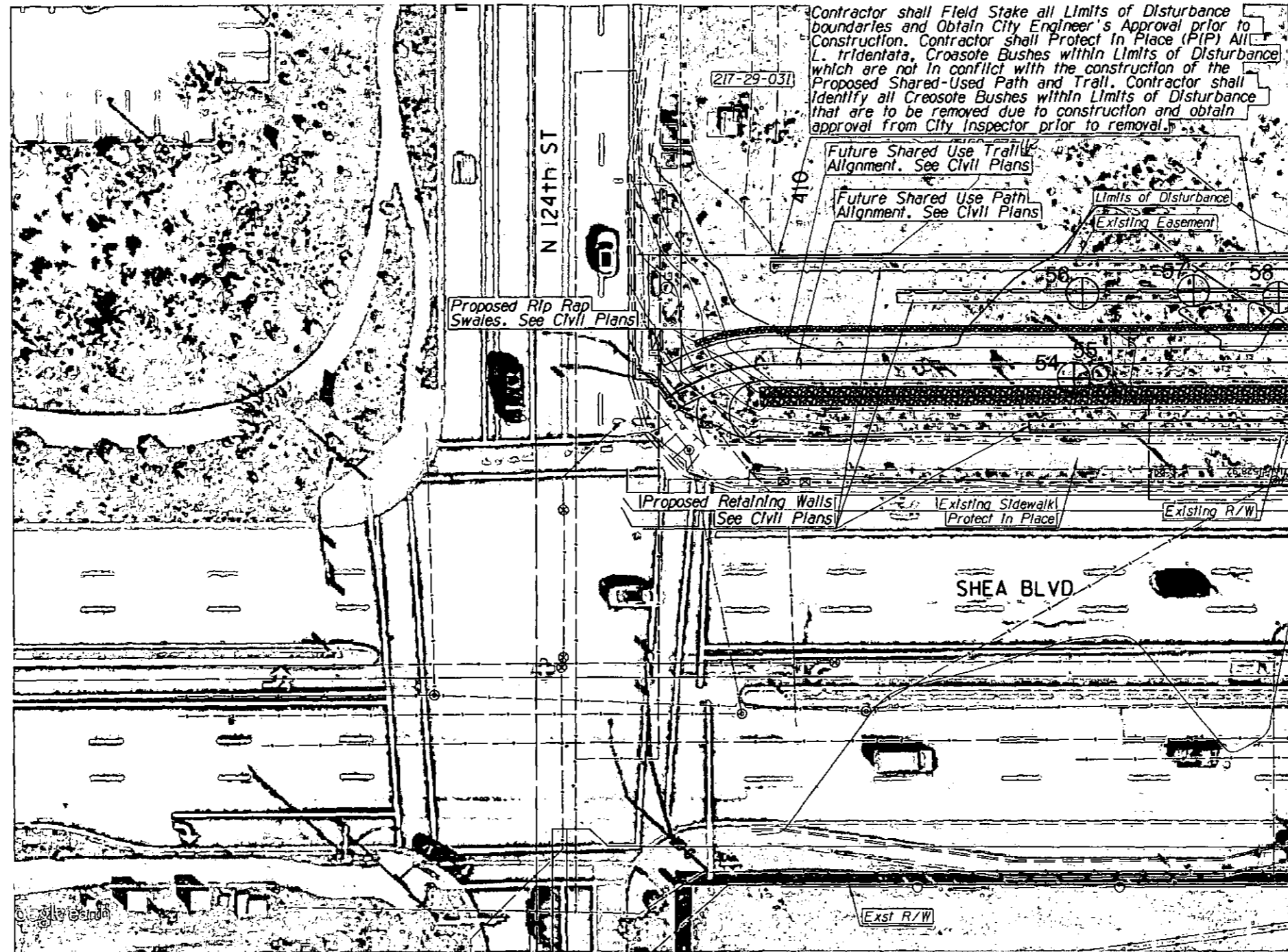
NATIVE PLANT INVENTORY

PLANT #	COMMON NAME	CALIPER (in)/ HEIGHT (ft)	STATUS
54	Foothills Palo Verde	6	S
55	Saguaro	48	NS
56	Foothills Palo Verde	4	S
57	Mesquite	4	S
58	Foothills Palo Verde	4	S

STATUS LEGEND	TREE	CACTI
S = SALVAGEABLE	4	0
NS = NON-SALVAGEABLE	0	1
PIP = PROTECT-IN-PLACE	0	0

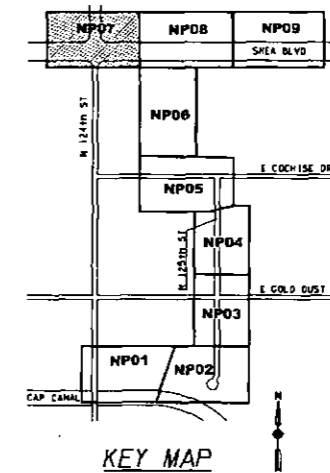
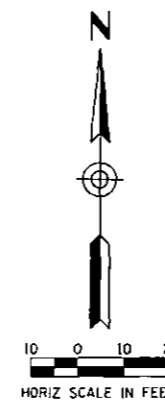
NOTES:

1. NATIVE PLANTS SHALL BE SALVAGED AND STORED WITHIN TEMPORARY NURSERY AS PART OF THIS PROJECT.
2. SEE SHEET NP05 FOR TEMPORARY NURSERY LOCATION.



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 (OFFICIAL MICHIGAN COUNTY)



DATE	REVISION	BY
ENGINEER	PUBLIC WORKS	
	CAPITAL PROJECT MANAGEMENT	
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE		
NATIVE PLANT INVENTORY		
PROJECT TITLE		
SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	JZ	
PROJECT NO.		SHT.
16BP020		NP07
57 OF 105		

XXX-XX

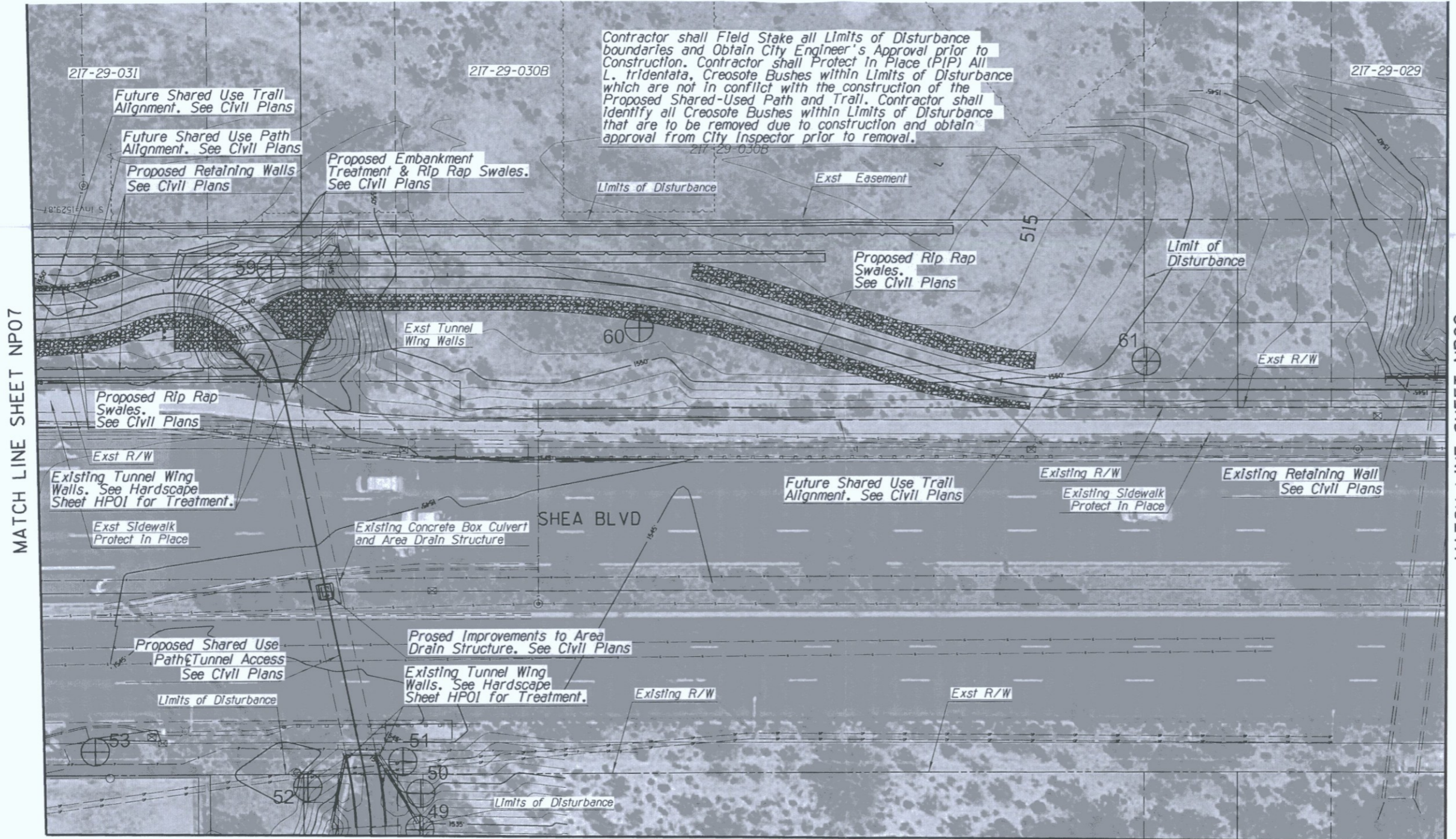
NATIVE PLANT INVENTORY

PLANT #	COMMON NAME	CALIPER (in)/ HEIGHT (ft)	STATUS
49	Blue Palo Verde	16	PIP
50	Foothills Palo Verde	4	PIP
51	Foothills Palo Verde	8	PIP
52	Foothills Palo Verde	6	PIP
53	Blue Palo Verde	10	PIP
59	Foothills Palo Verde	4	NS
60	Foothills Palo Verde	10	PIP
61	Foothills Palo Verde	5	PIP

STATUS LEGEND	TREE	CACTI
S = SALVAGEABLE	0	0
NS = NON-SALVAGEABLE	1	0
PIP = PROTECT-IN-PLACE	7	0

NOTES:

1. NATIVE PLANTS SHALL BE SALVAGED AND STORED WITHIN TEMPORARY NURSERY AS PART OF THIS PROJECT.
2. SEE SHEET NP05 FOR TEMPORARY NURSERY LOCATION.



MATCH LINE SHEET NP07

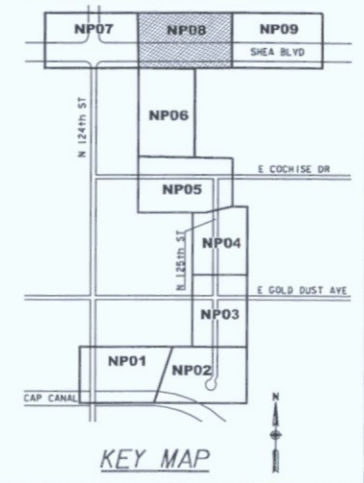
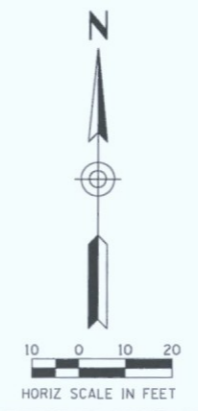
MATCH LINE SHEET NP09

MATCH LINE SHEET NP06

Native Resources
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DATE	REVISION	BY
ENGINEER		
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT		
7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
Expires: 9/30/2017		
SHEET TITLE NATIVE PLANT INVENTORY		
PROJECT TITLE SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
BID NO. 16BP020 PROJECT NO.		SH. NP08 58 OF 105

XXX-XX

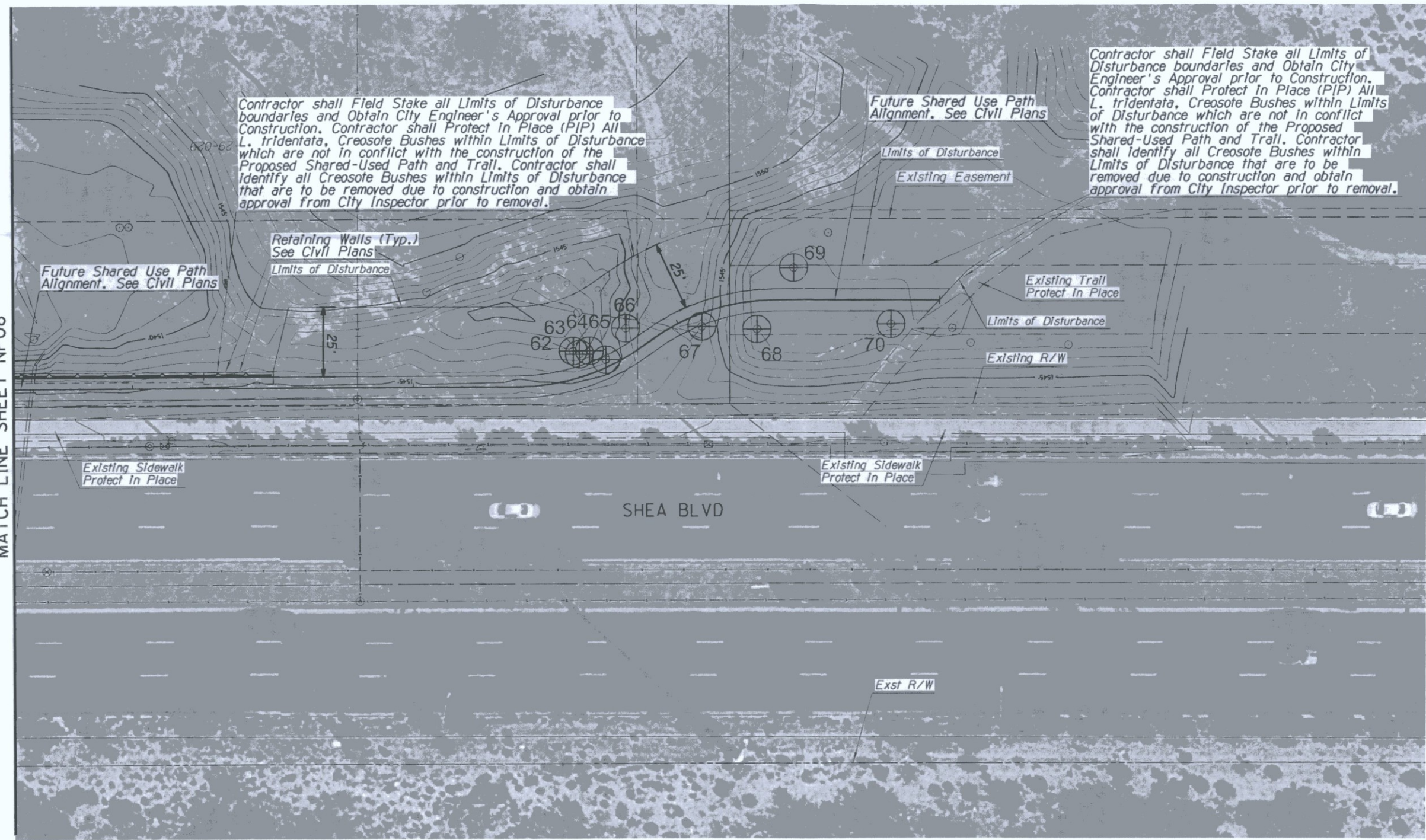
NATIVE PLANT INVENTORY

PLANT #	COMMON NAME	CALIPER (in)/ HEIGHT (ft)	STATUS
62	Foothills Palo Verde	4	S
63	Foothills Palo Verde	4	S
64	Foothills Palo Verde	4	S
65	Foothills Palo Verde	4	S
66	Foothills Palo Verde	4	S
67	Foothills Palo Verde	4	S
68	Foothills Palo Verde	4	PIP
69	Foothills Palo Verde	22	PIP
70	Foothills Palo Verde	6	PIP

STATUS LEGEND	TREE	CACTI
S = SALVAGEABLE	6	0
NS = NON-SALVAGEABLE	0	0
PIP = PROTECT-IN-PLACE	3	0

- NOTES:**
1. NATIVE PLANTS SHALL BE SALVAGED AND STORED WITHIN TEMPORARY NURSERY AS PART OF THIS PROJECT.
 2. SEE SHEET NP05 FOR TEMPORARY NURSERY LOCATION.

MATCH LINE SHEET NP08



Contractor shall Field Stake all Limits of Disturbance boundaries and Obtain City Engineer's Approval prior to Construction. Contractor shall Protect In Place (PIP) All *L. tridentata*, Creosote Bushes within Limits of Disturbance which are not in conflict with the construction of the Proposed Shared-Used Path and Trail. Contractor shall Identify all Creosote Bushes within Limits of Disturbance that are to be removed due to construction and obtain approval from City Inspector prior to removal.

Future Shared Use Path Alignment. See Civil Plans

Contractor shall Field Stake all Limits of Disturbance boundaries and Obtain City Engineer's Approval prior to Construction. Contractor shall Protect In Place (PIP) All *L. tridentata*, Creosote Bushes within Limits of Disturbance which are not in conflict with the construction of the Proposed Shared-Used Path and Trail. Contractor shall Identify all Creosote Bushes within Limits of Disturbance that are to be removed due to construction and obtain approval from City Inspector prior to removal.

Retaining Walls (Typ.) See Civil Plans
Limits of Disturbance

Limits of Disturbance
Existing Easement

Existing Trail Protect In Place

Limits of Disturbance

Existing R/W

Existing Sidewalk Protect In Place

Existing Sidewalk Protect In Place

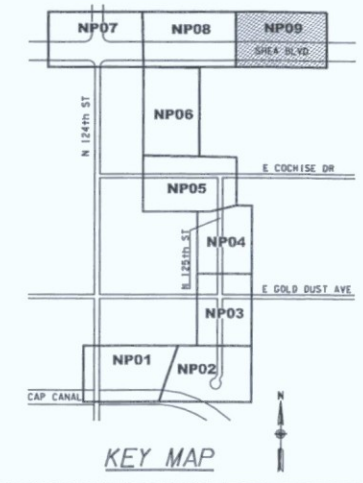
SHEA BLVD

Exst R/W



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DATE	REVISION	BY
ENGINEER		
PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251		
SHEET TITLE NATIVE PLANT INVENTORY		
PROJECT TITLE SHEA BLVD UNDERPASS ACCESS FROM SHEA BLVD TO CAP CANAL		
SCALE	DESIGNED	DATE
HORIZ. 1"=20'	RC	1/16
VERT.	DRAWN	AS-BUILT
	J2	
BID. NO.	SHT.	
16BP020	NP09	
PROJECT NO.		
		59 OF 105

XXX-XX