

VOLUME II
EXHIBITS

Reata Wash Flood Control Improvement Study

Contract No. 2014-168-COS

Design Concept Report Volume II - Exhibits November 2, 2016

Prepared for:



Capital Project Management
7447 East Indian School Road, Suite 205
Scottsdale, AZ. 85251

Prepared By:

WOOD/PATEL
MISSION: CLIENT SERVICE™

Wood, Patel & Associates, Inc.
2051 West Northern Avenue, Suite 100
Phoenix, Arizona 85021



In Association with:

EXPIRES 12-31-16



THE DESIGN CONCEPT REPORT FOR THE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY IS COMPOSED OF THREE SEPARATE VOLUMES:

VOLUME I – REPORT

VOLUME II – EXHIBITS

VOLUME III – APPENDICES



EXPIRES 12-31-16

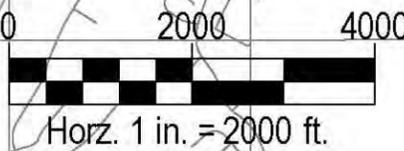
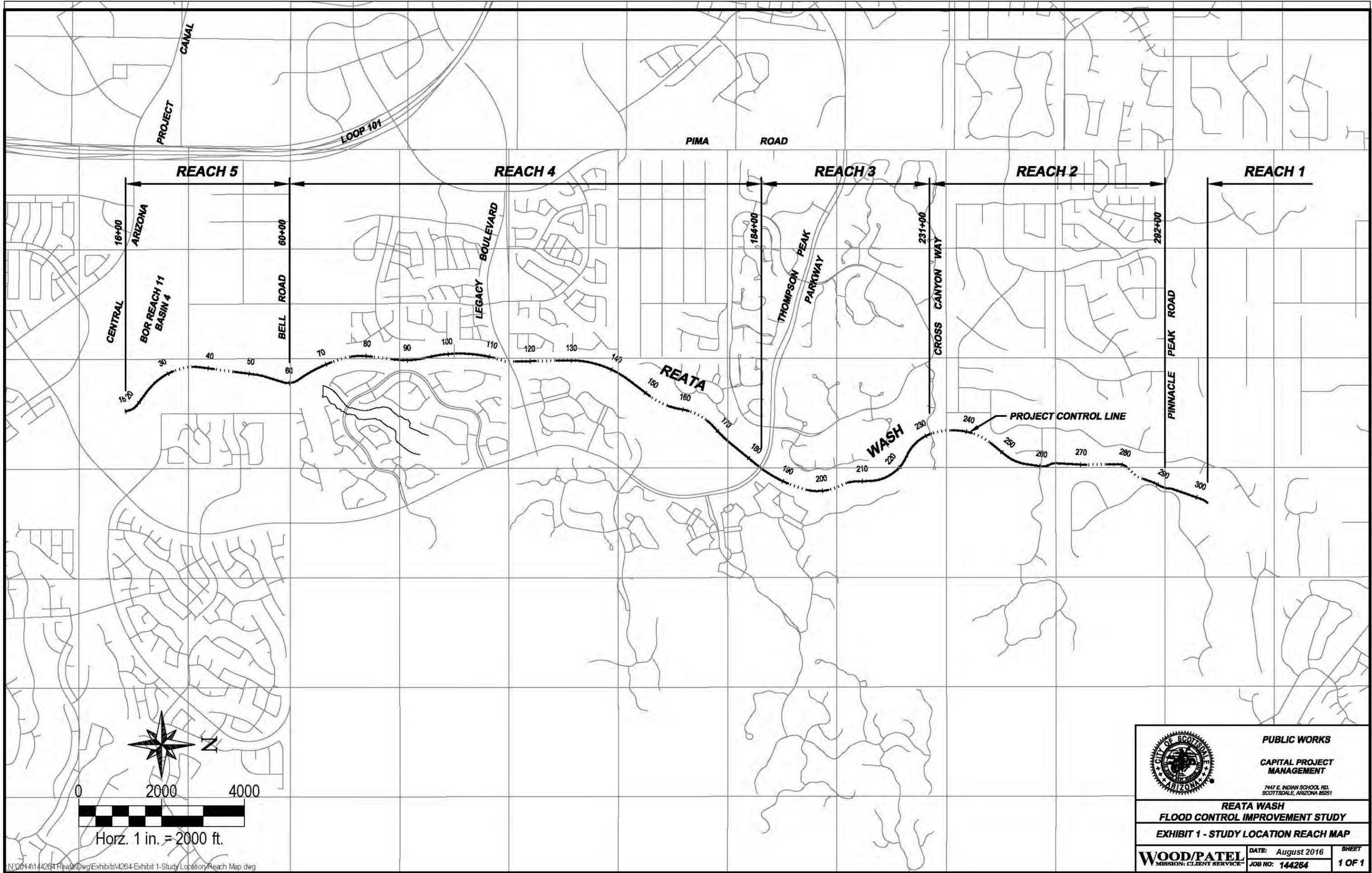
VOLUME II
EXHIBITS

- Exhibit 1 Study Location Reach Map
- Exhibit 2 Study Location Reach Map and Existing Condition Floodplain
- Exhibit 3 Study Location Reach Map and Proposed Condition Floodplain
- Exhibit 4 Land Rights
- Exhibit 5 Concept Design Plan (15%)
- Exhibit 6 Existing Condition Peak Discharges
- Exhibit 7 Proposed Condition Peak Discharges



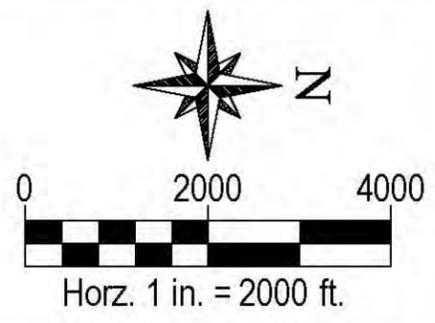
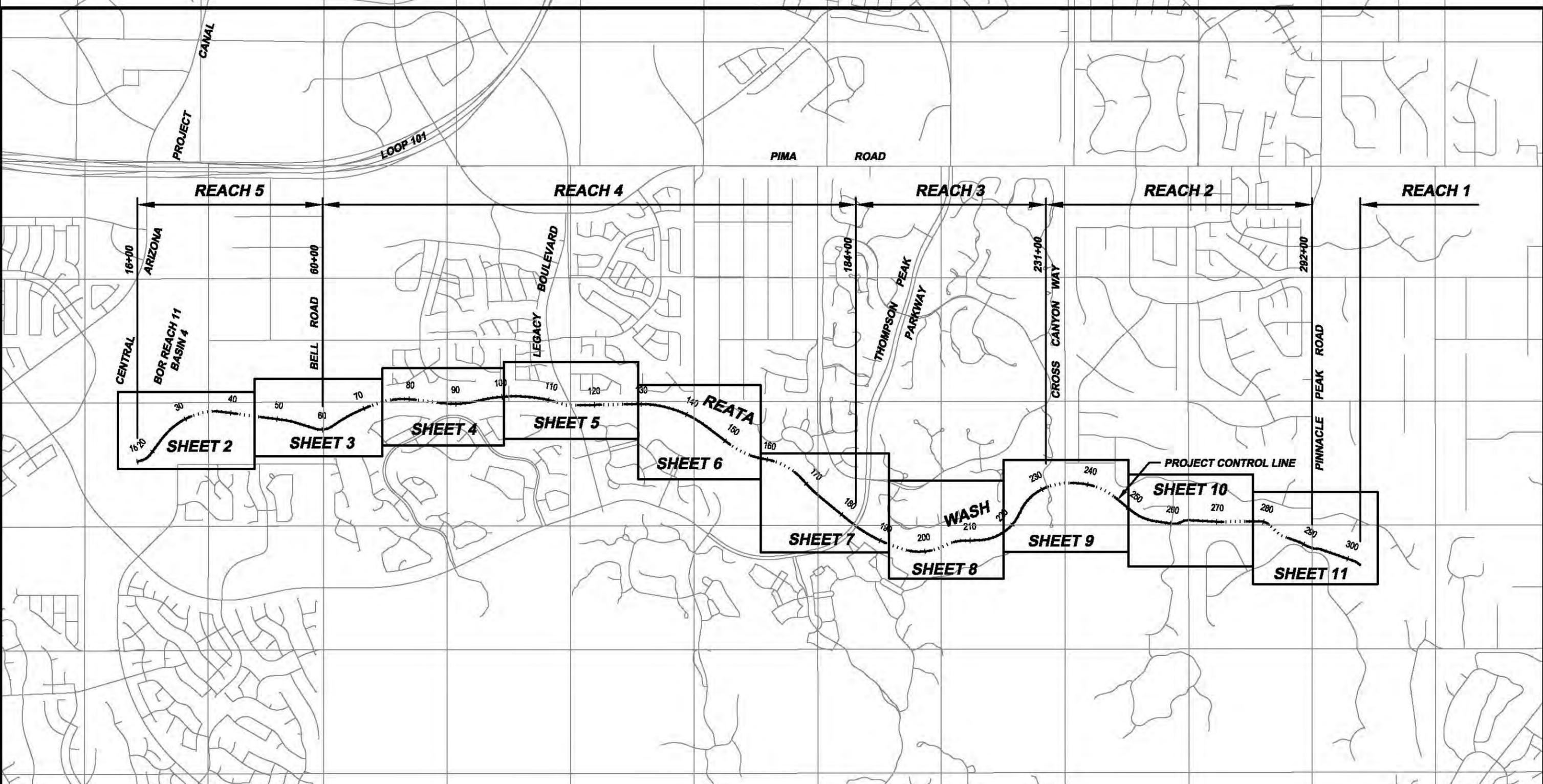
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EXHIBIT 1
STUDY LOCATION REACH MAP

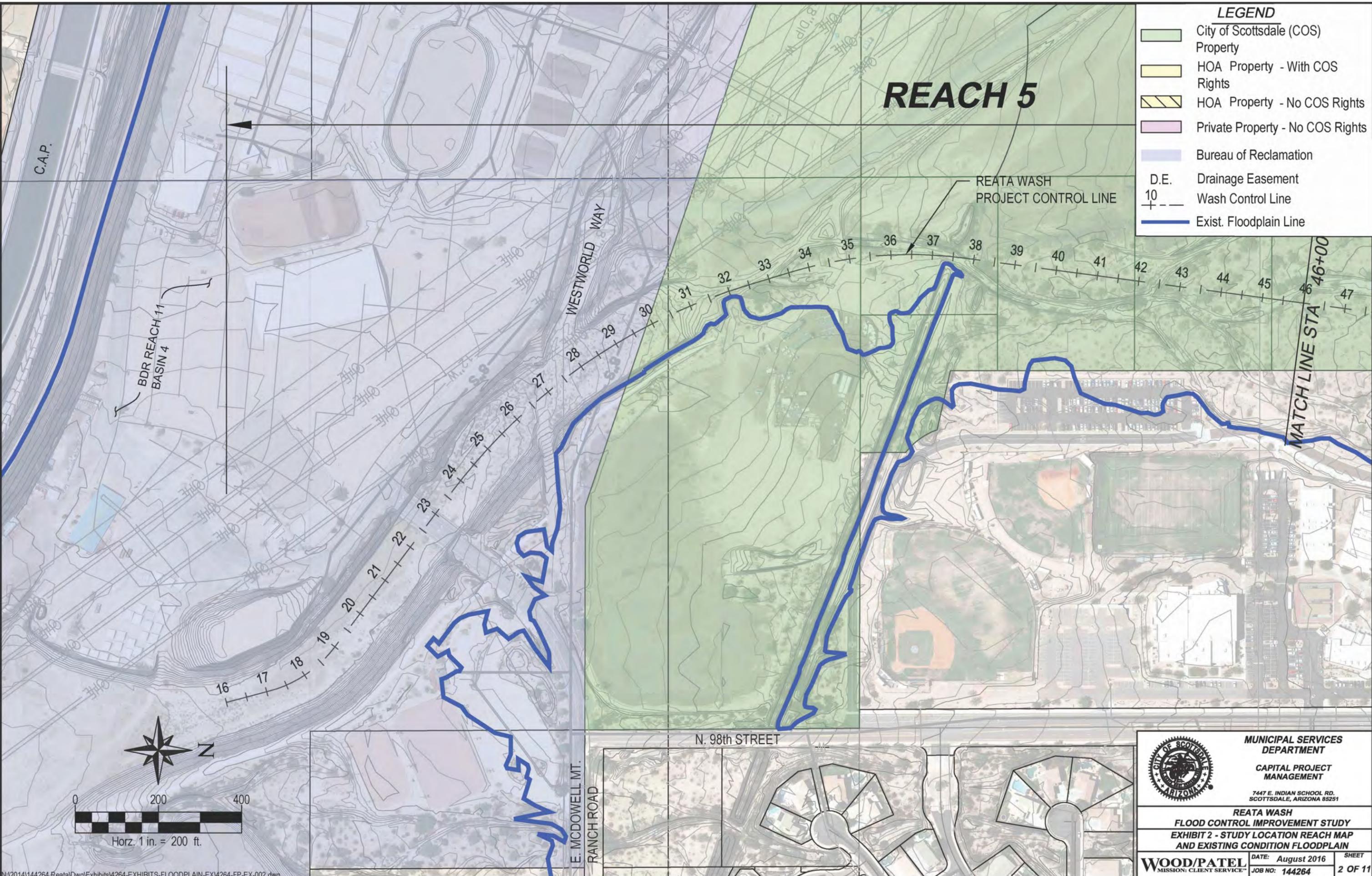


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|  | PUBLIC WORKS CAPITAL PROJECT MANAGEMENT <small>7417 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</small> | |
| | REATA WASH FLOOD CONTROL IMPROVEMENT STUDY EXHIBIT 1 - STUDY LOCATION REACH MAP | |
| | WOOD/PATEL <small>MISSION: CLIENT SERVICE™</small> | DATE: August 2016 JOB NO: 144264 |

EXHIBIT 2
STUDY LOCATION REACH MAP
AND EXISTING CONDITION FLOODPLAIN



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|---|--|-------------------------|
|  | PUBLIC WORKS | |
| | CAPITAL PROJECT MANAGEMENT | |
| | <small>7417 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</small> | |
| REATA WASH | | |
| FLOOD CONTROL IMPROVEMENT STUDY | | |
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| AND EXISTING CONDITION FLOODPLAIN | | |
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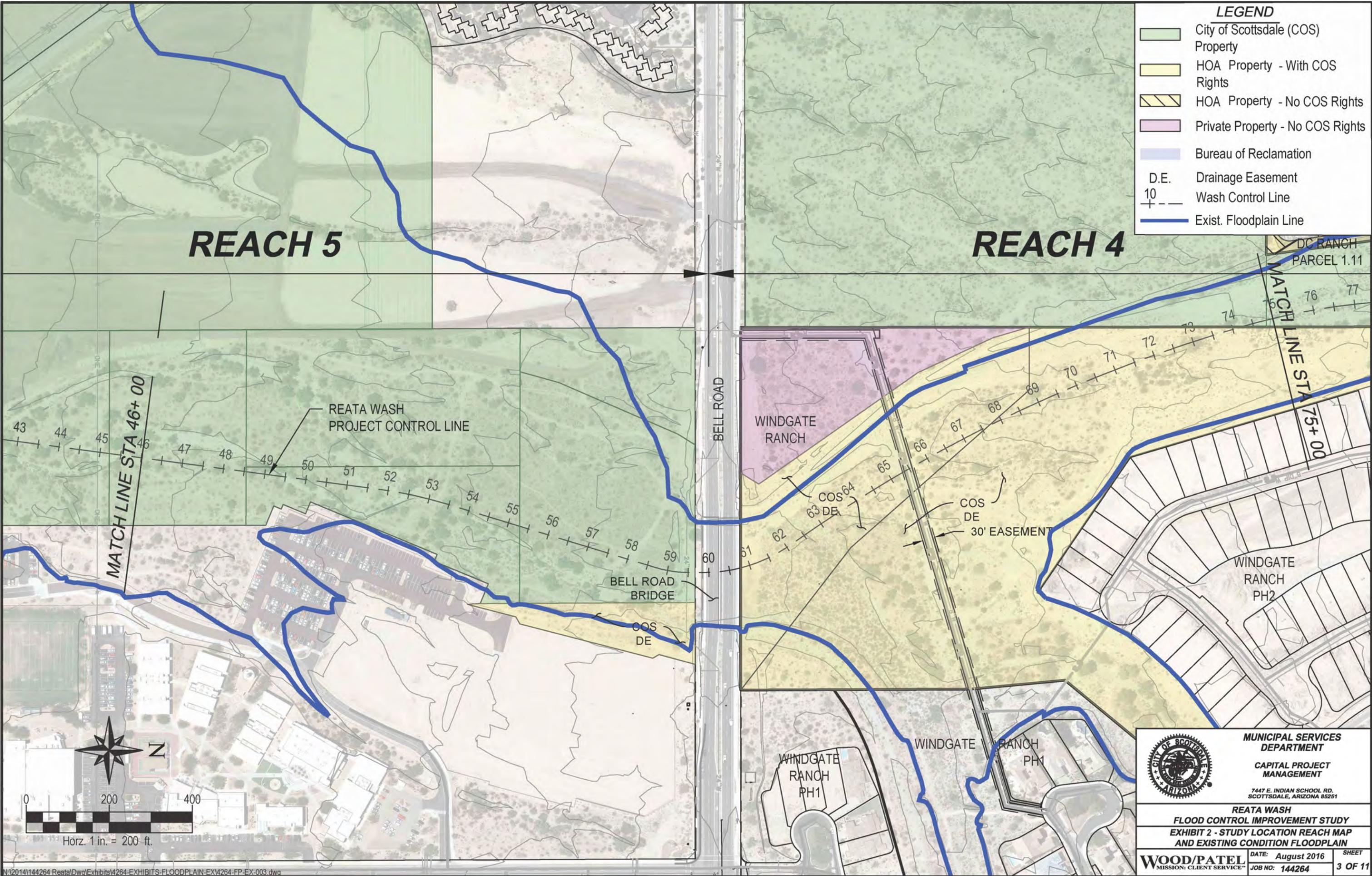


LEGEND

| | |
|--|-----------------------------------|
| | City of Scottsdale (COS) Property |
| | HOA Property - With COS Rights |
| | HOA Property - No COS Rights |
| | Private Property - No COS Rights |
| | Bureau of Reclamation |
| | D.E. Drainage Easement |
| | 10' Wash Control Line |
| | Exist. Floodplain Line |

REACH 5

| | | |
|--|---|-------------------------|
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REACH 5

REACH 4

MATCH LINE STA 46+00

MATCH LINE STA 75+00

REATA WASH PROJECT CONTROL LINE

BELL ROAD

WINDGATE RANCH

WINDGATE RANCH PH2

WINDGATE RANCH PH1

WINDGATE RANCH PH1

BELL ROAD BRIDGE

COS DE

COS DE

COS DE

30' EASEMENT



Horz. 1 in. = 200 ft.

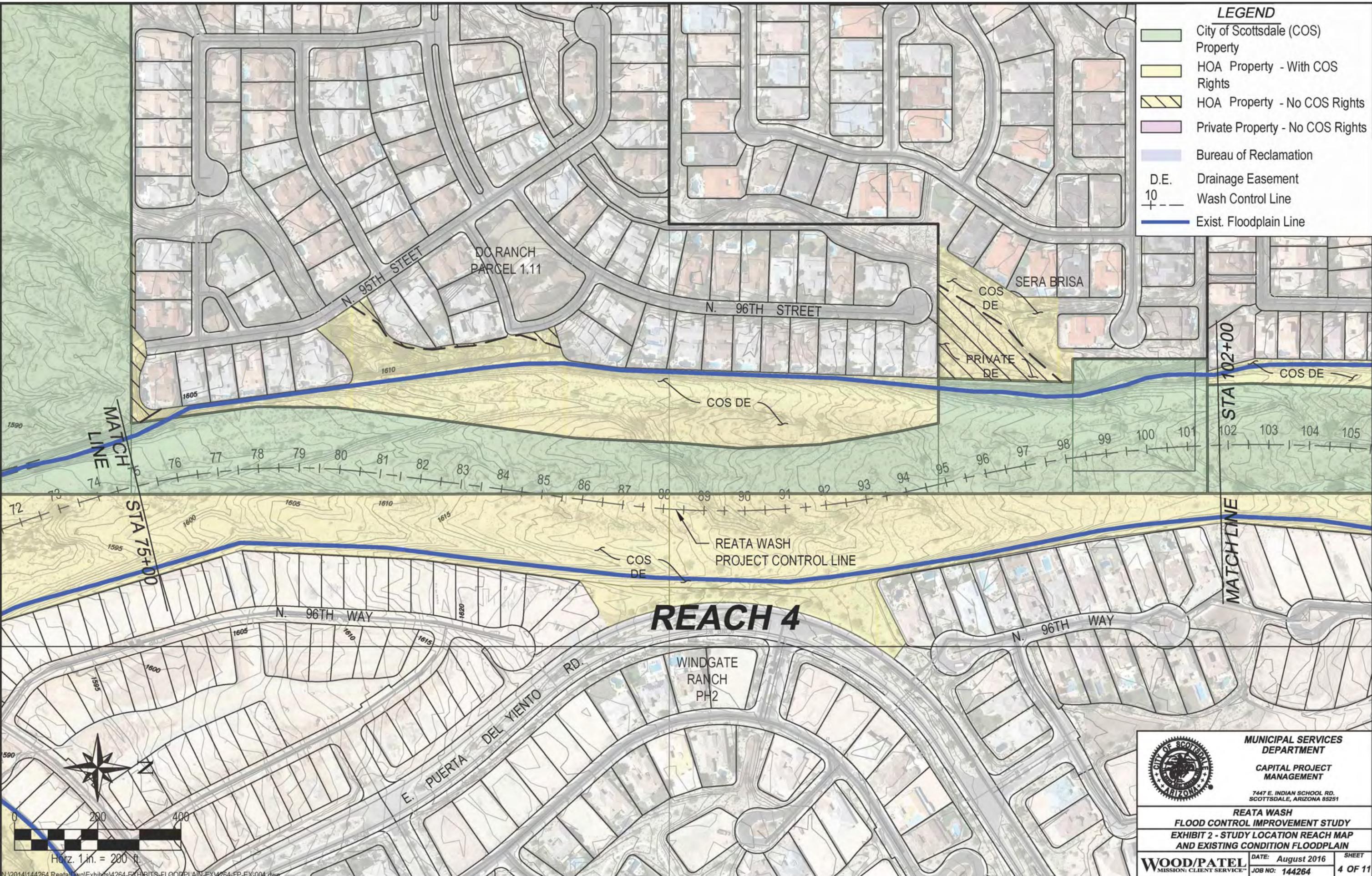
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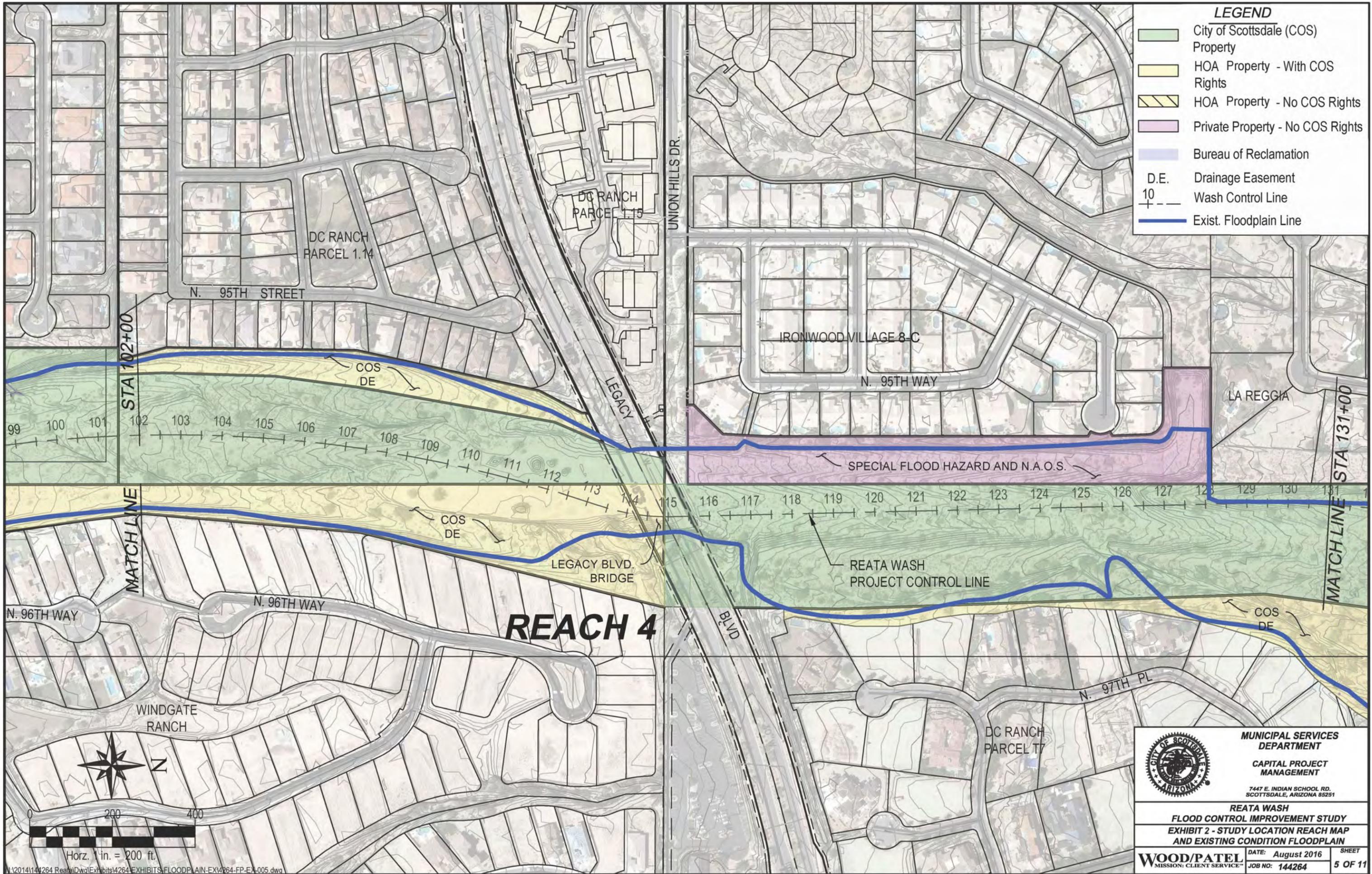
WOOD/PATEL DATE: August 2016 SHEET
 MISSION: CLIENT SERVICE™ JOB NO: 144264 3 OF 11

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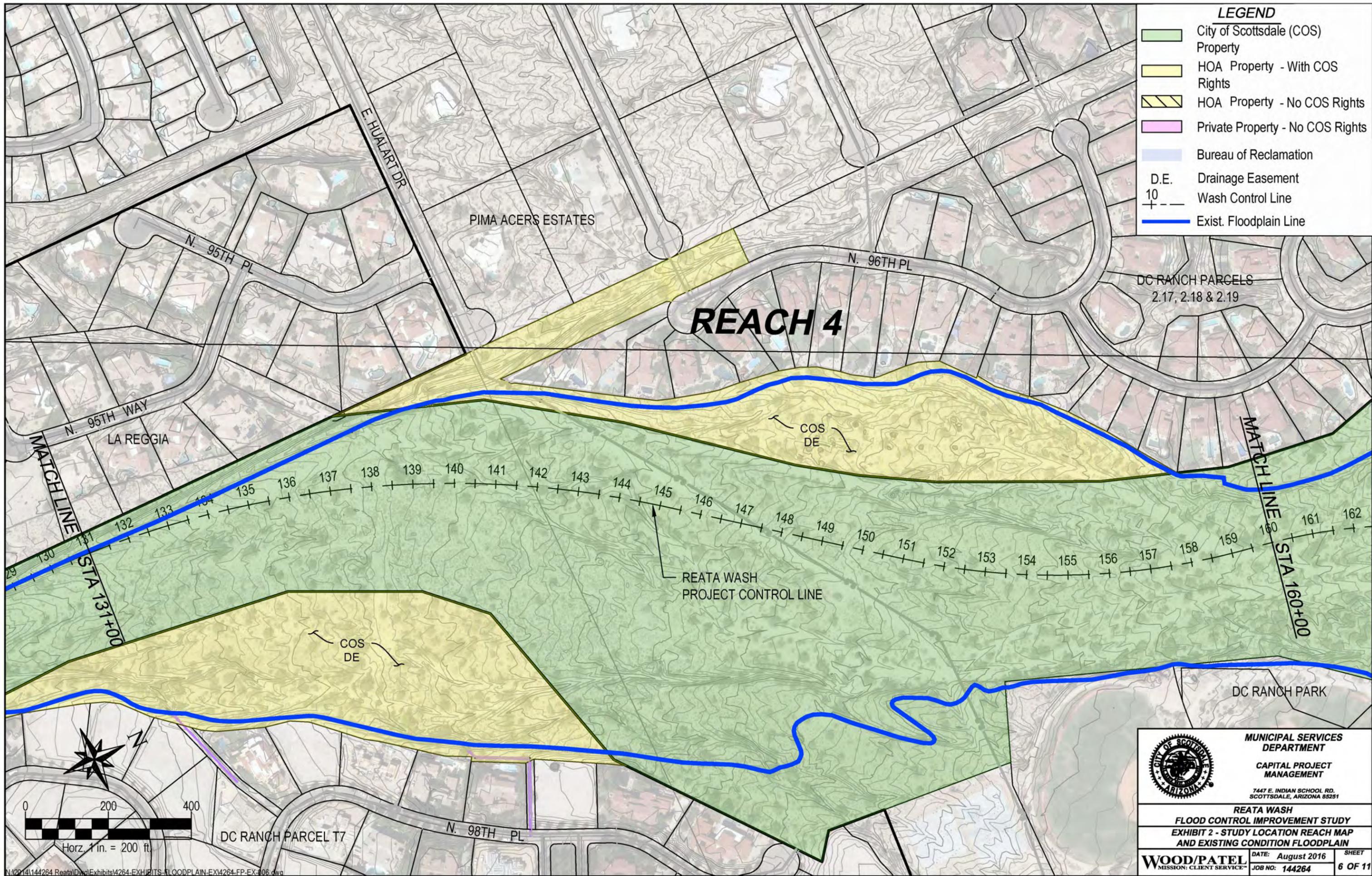


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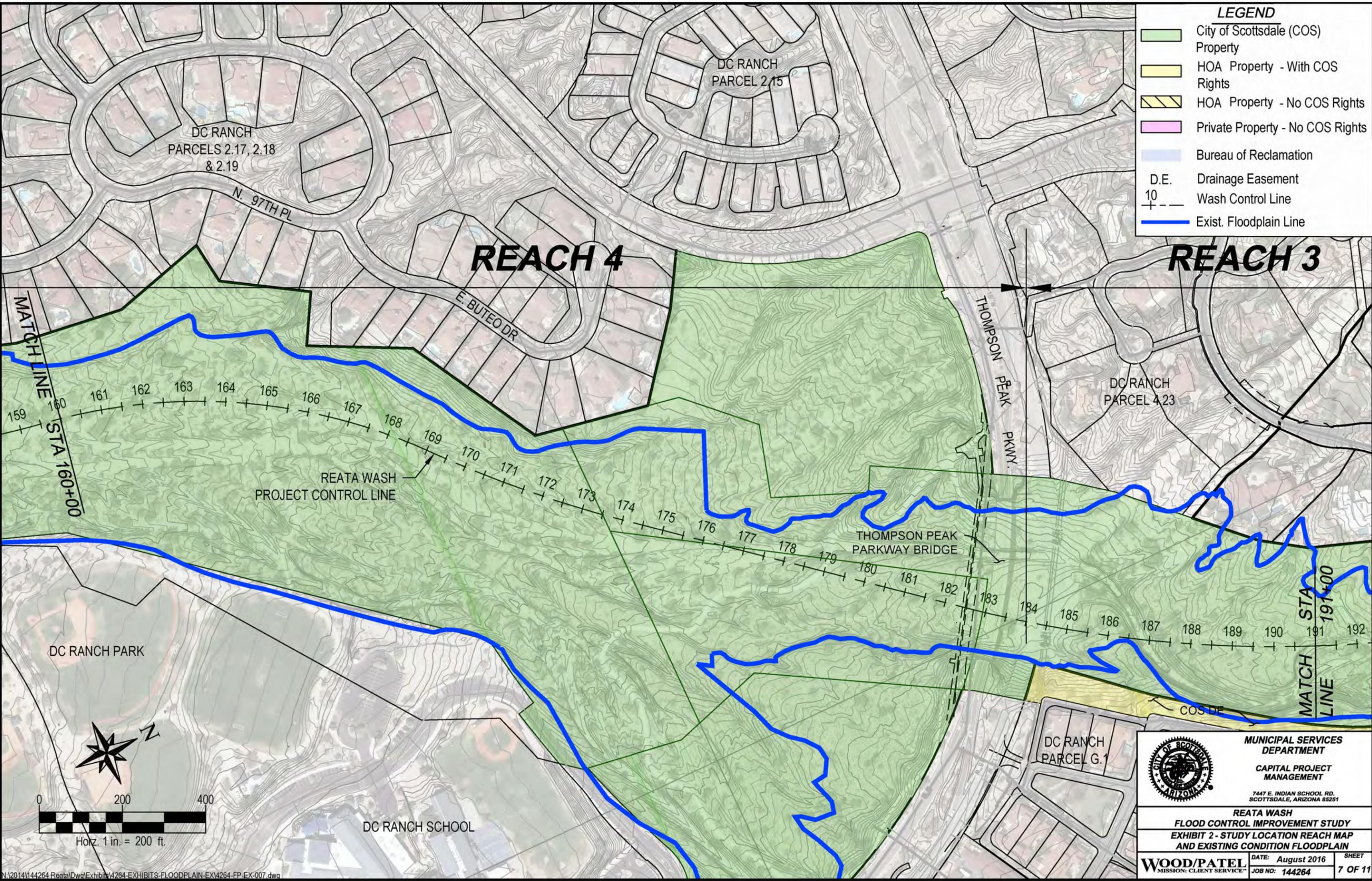
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REACH 4

REACH 3

MATCH LINE
STA 160+00

MATCH LINE
STA 191+00

DC RANCH PARK

DC RANCH SCHOOL

THOMPSON PEAK
PARKWAY BRIDGE

DC RANCH
PARCEL G.1

DC RANCH
PARCELS 2.17, 2.18
& 2.19

DC RANCH
PARCEL 2.15

DC RANCH
PARCEL 4.23

N. 97TH PL

E. BUTEO DR

THOMPSON PEAK
PKWY.

COS DE



Horiz. 1 in. = 200 ft.



**MUNICIPAL SERVICES
DEPARTMENT**

**CAPITAL PROJECT
MANAGEMENT**

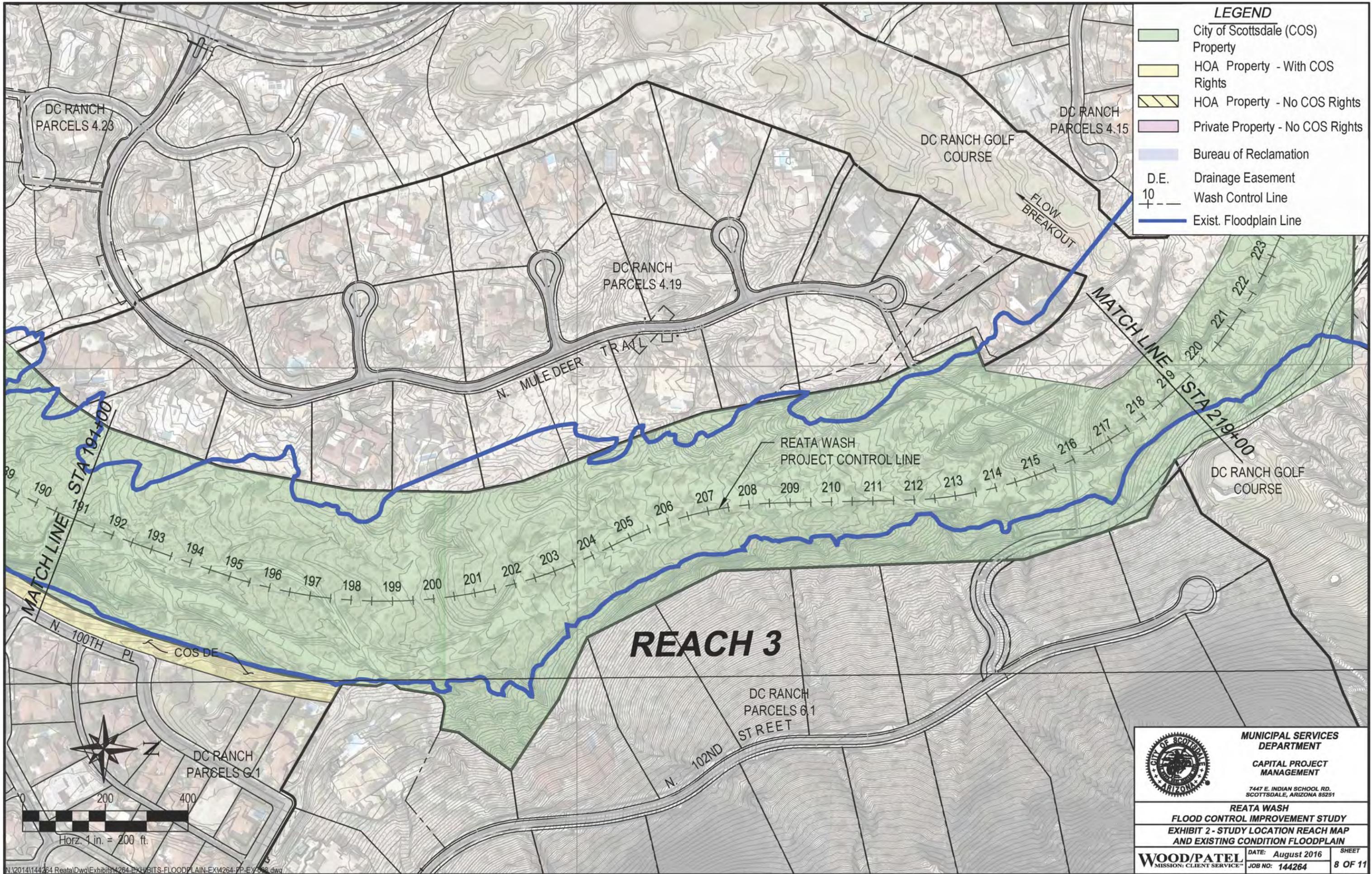
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**REATA WASH
FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 2 - STUDY LOCATION REACH MAP
AND EXISTING CONDITION FLOODPLAIN**

WOOD/PATEL
MISSION: CLIENT SERVICE™

DATE: August 2016
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SHEET
7 OF 11



LEGEND

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REACH 3



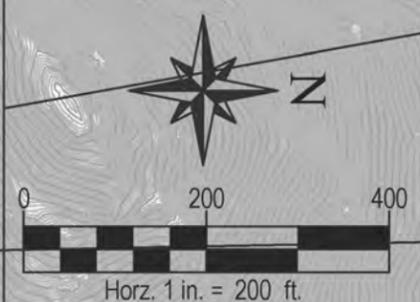
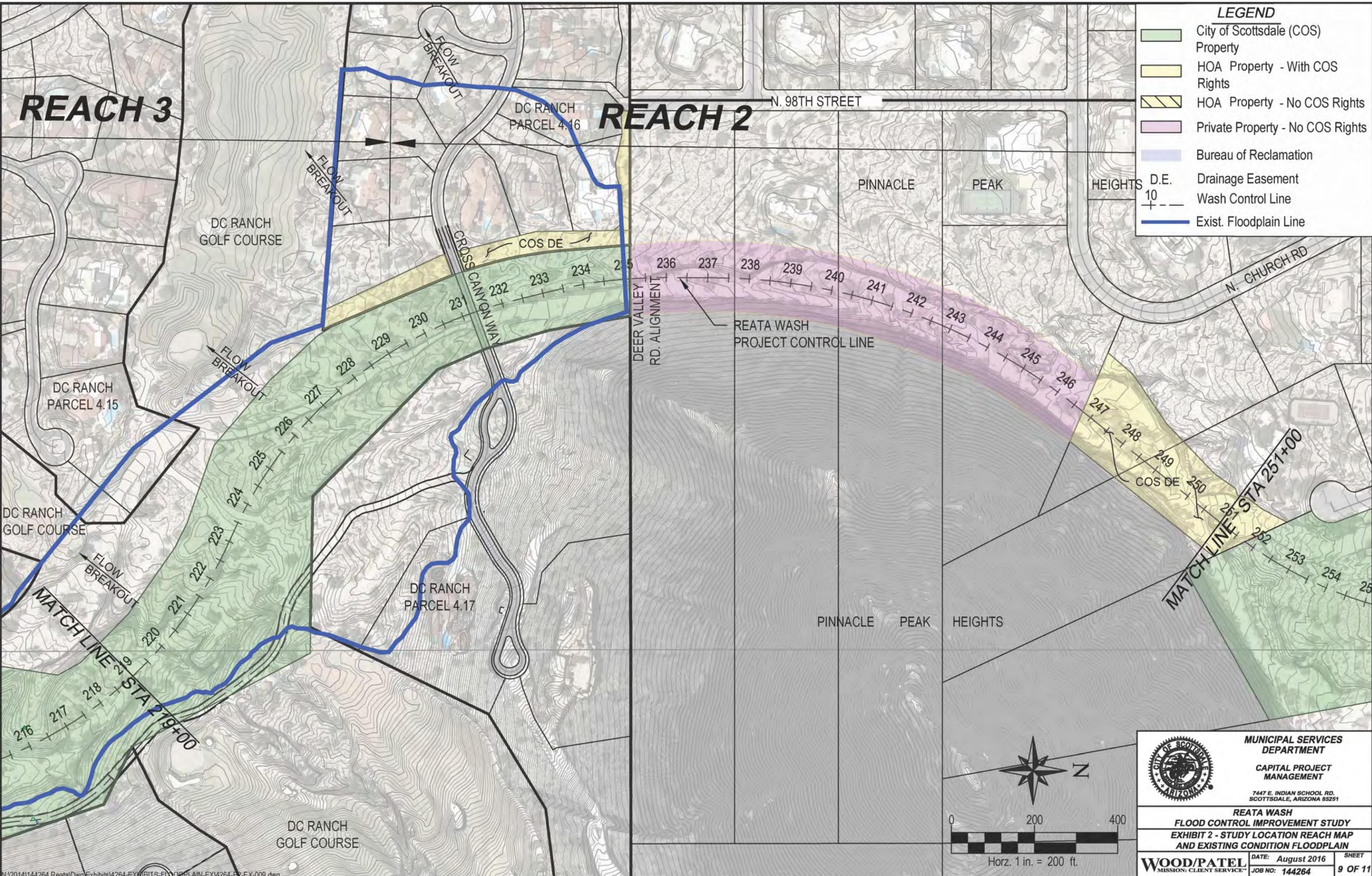
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REACH 3

REACH 2

LEGEND

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- Drainage Easement
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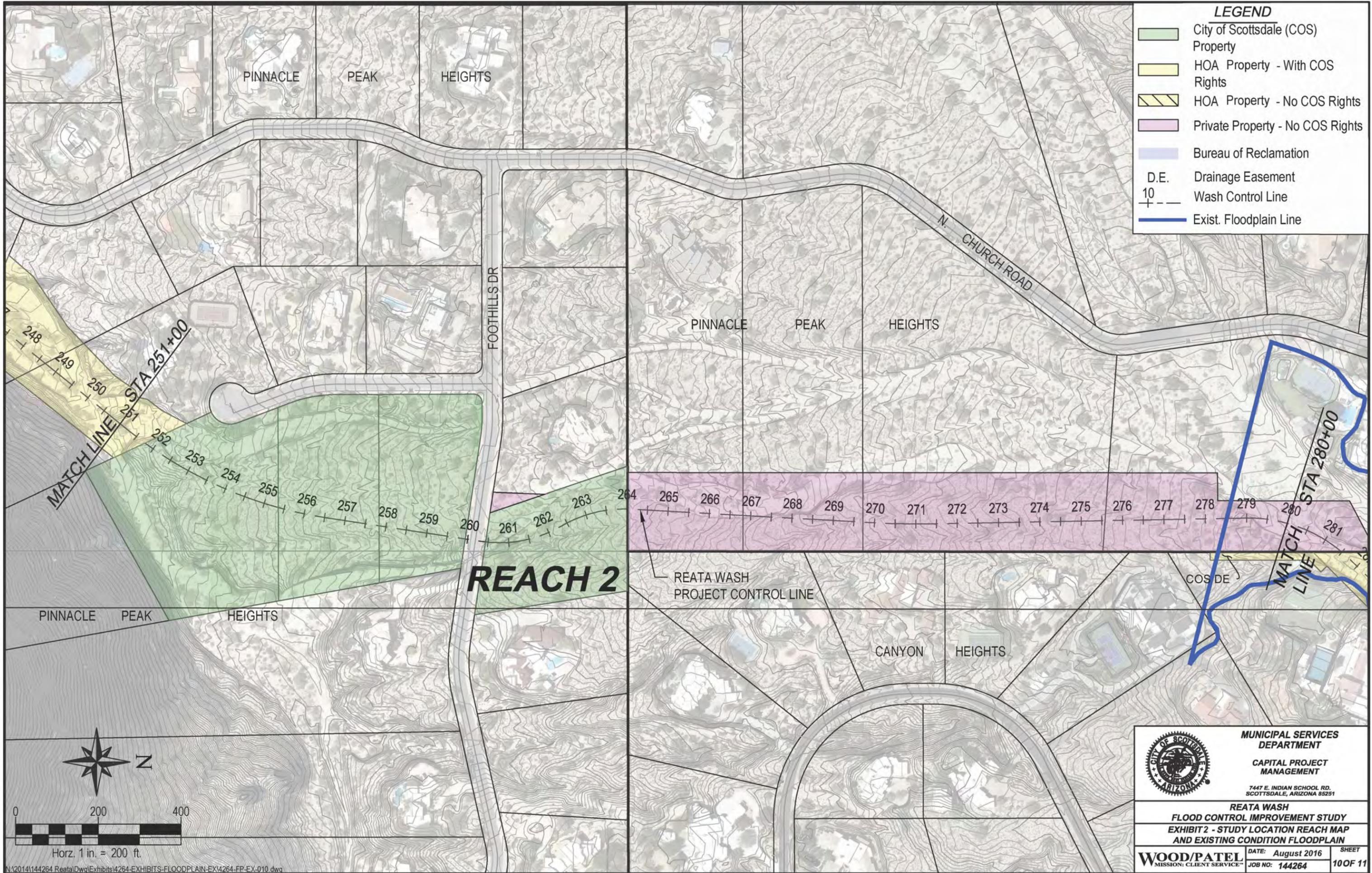




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REATA WASH FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 2 - STUDY LOCATION REACH MAP AND EXISTING CONDITION FLOODPLAIN

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LEGEND

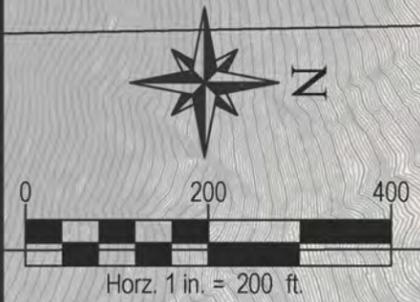
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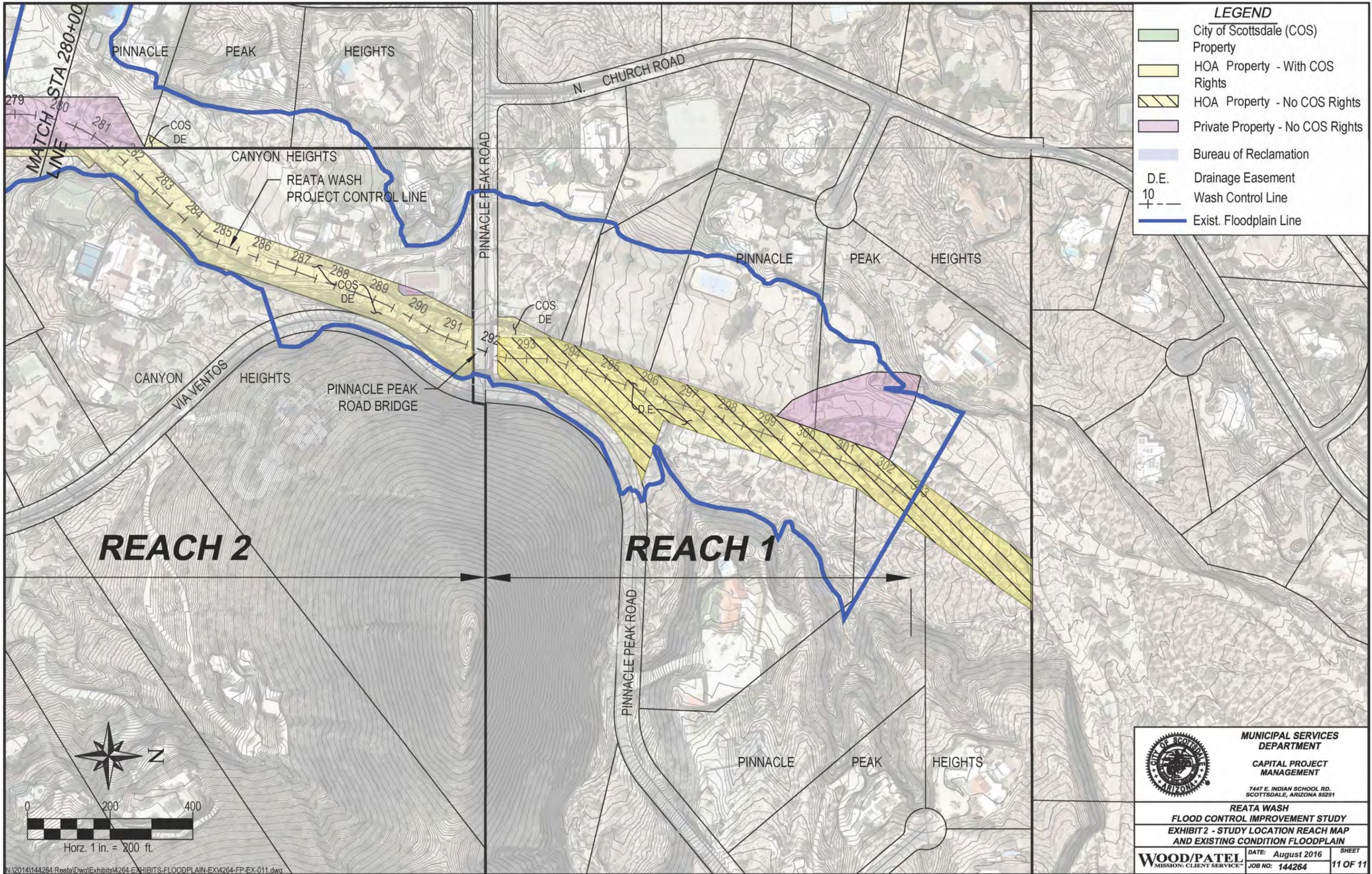
REACH 2

REATA WASH PROJECT CONTROL LINE

COS DE

| | | |
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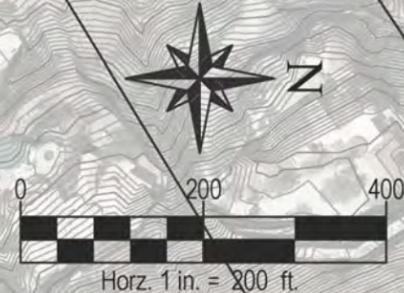


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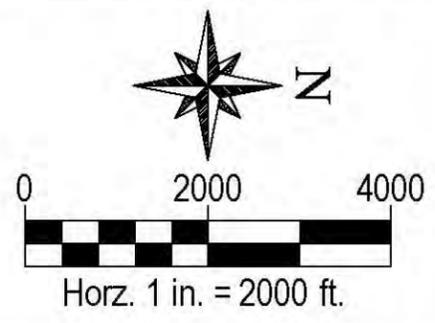
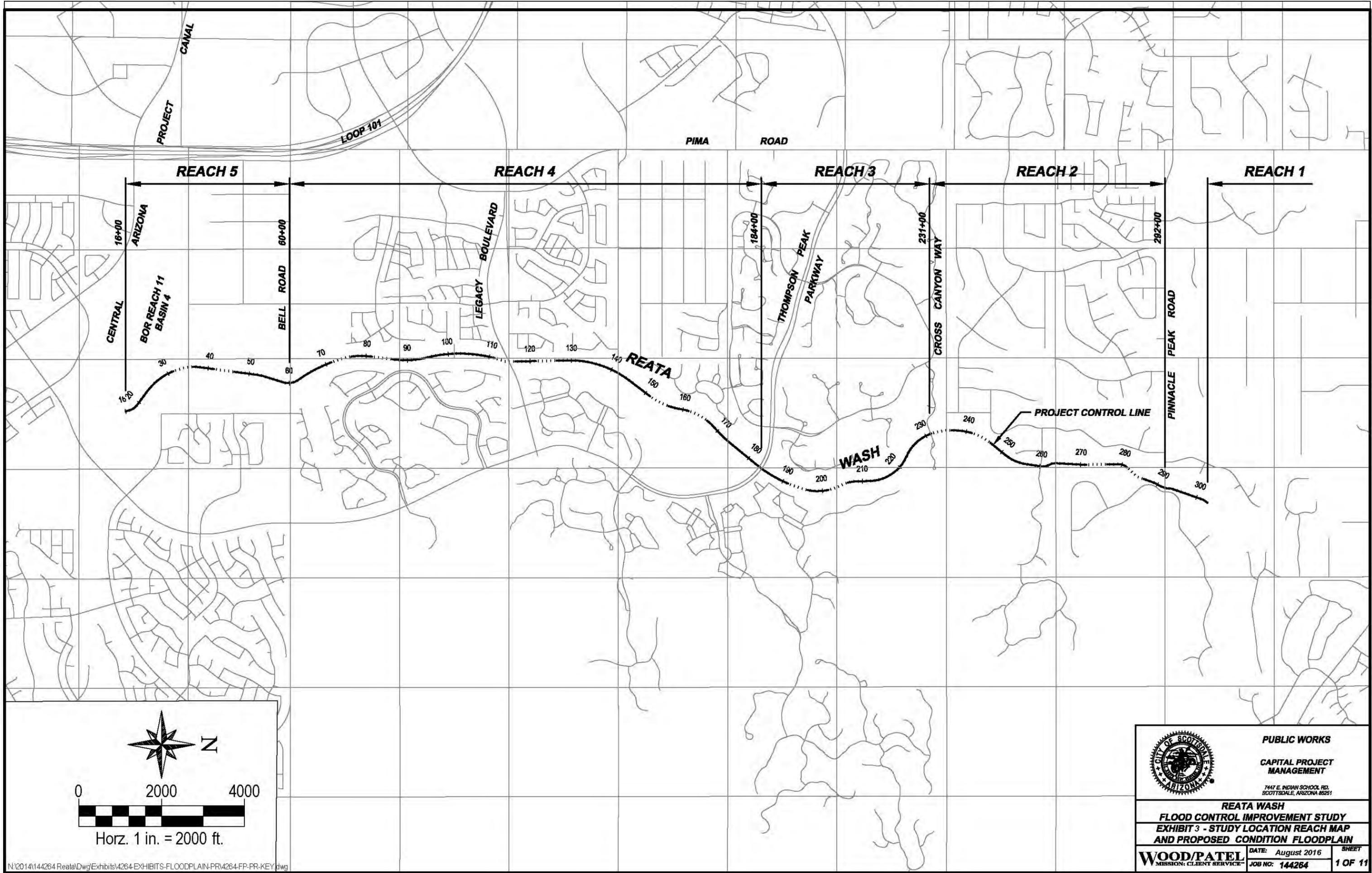
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REACH 1

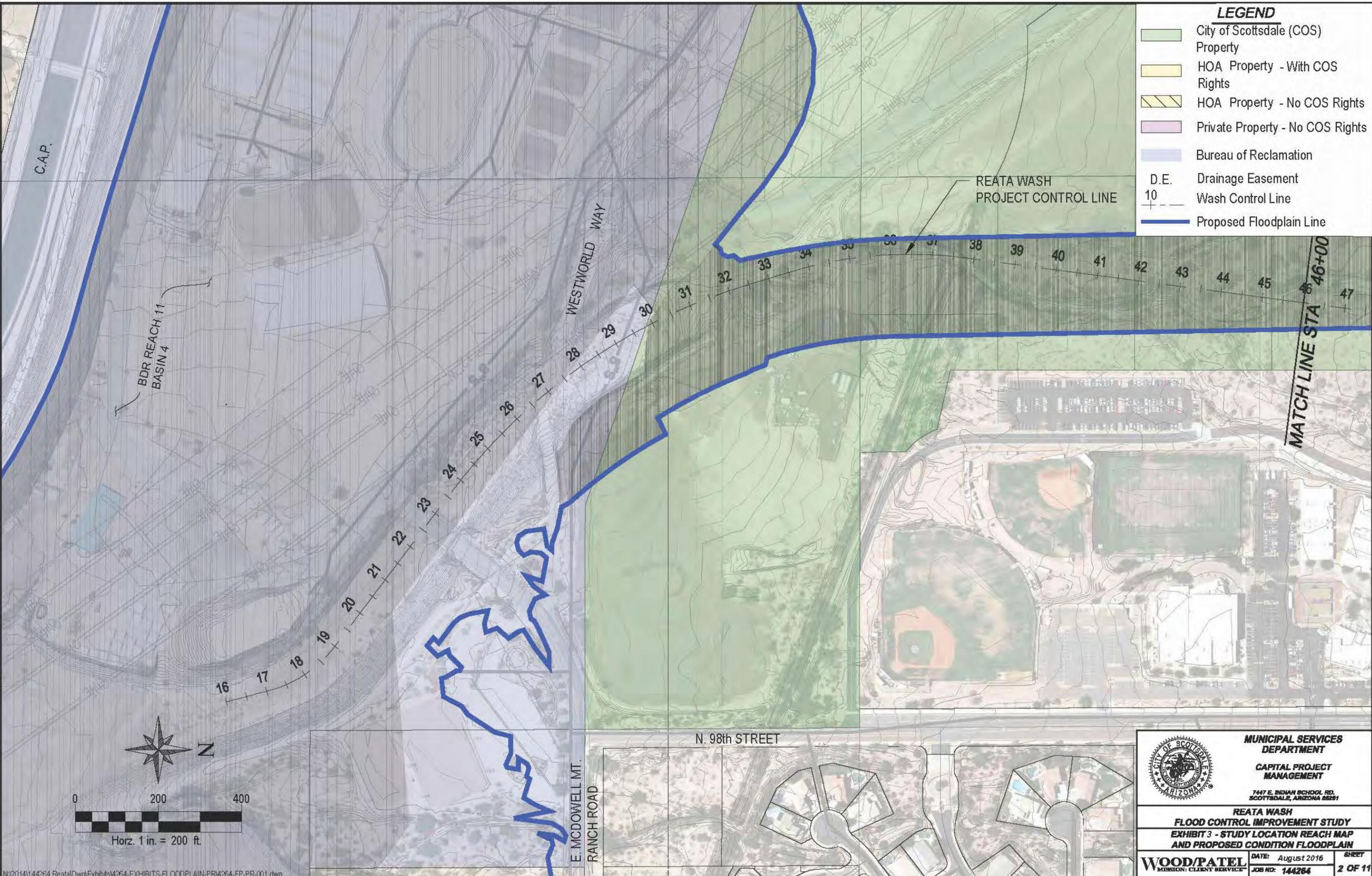


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EXHIBIT 3
STUDY LOCATION REACH MAP
AND PROPOSED CONDITION FLOODPLAIN

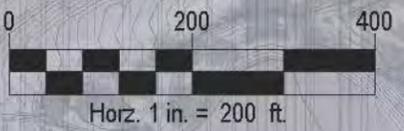


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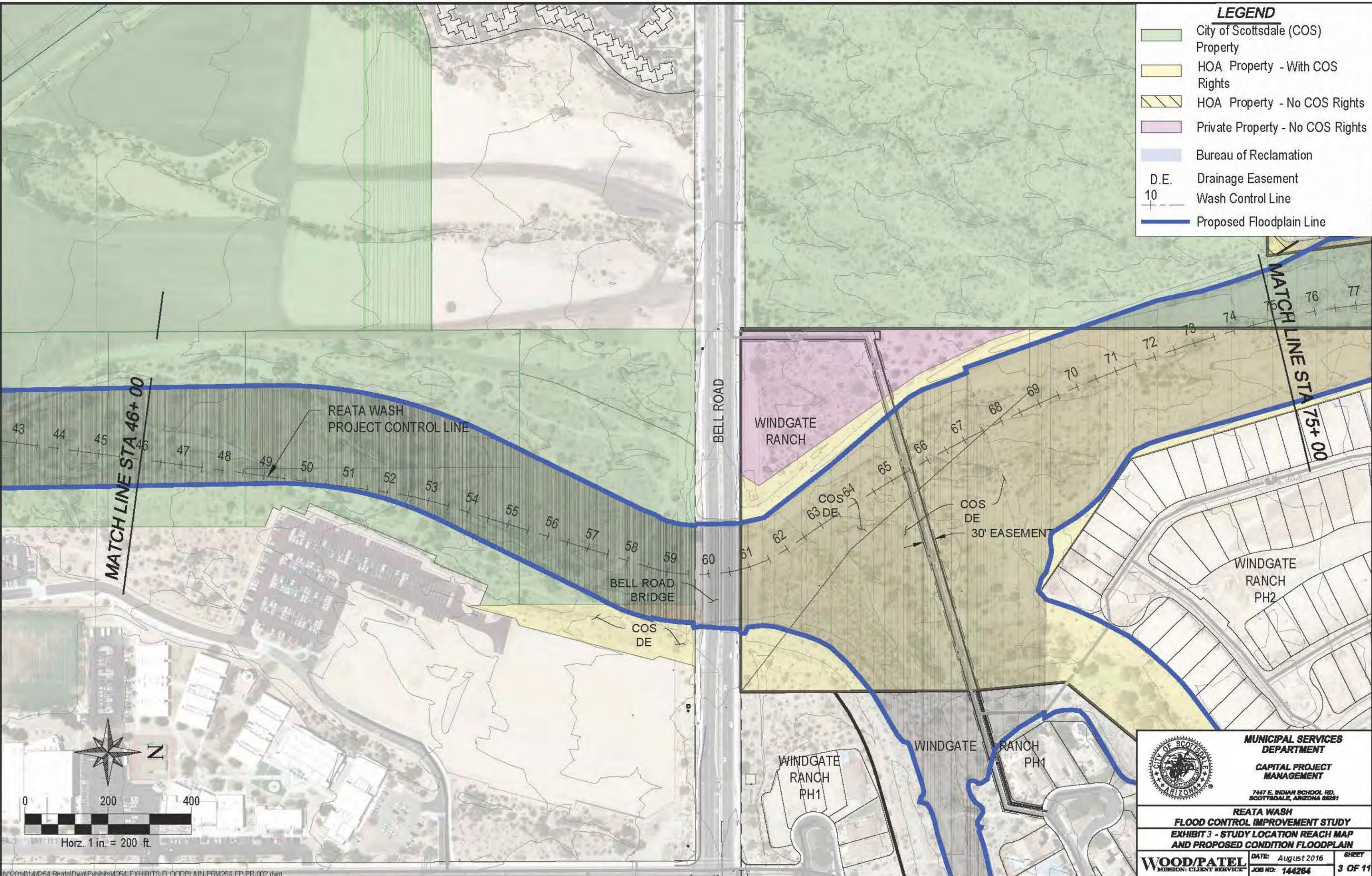
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| | Proposed Floodplain Line |



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| | MUNICIPAL SERVICES DEPARTMENT CAPITAL PROJECT MANAGEMENT <small>7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85261</small> | |
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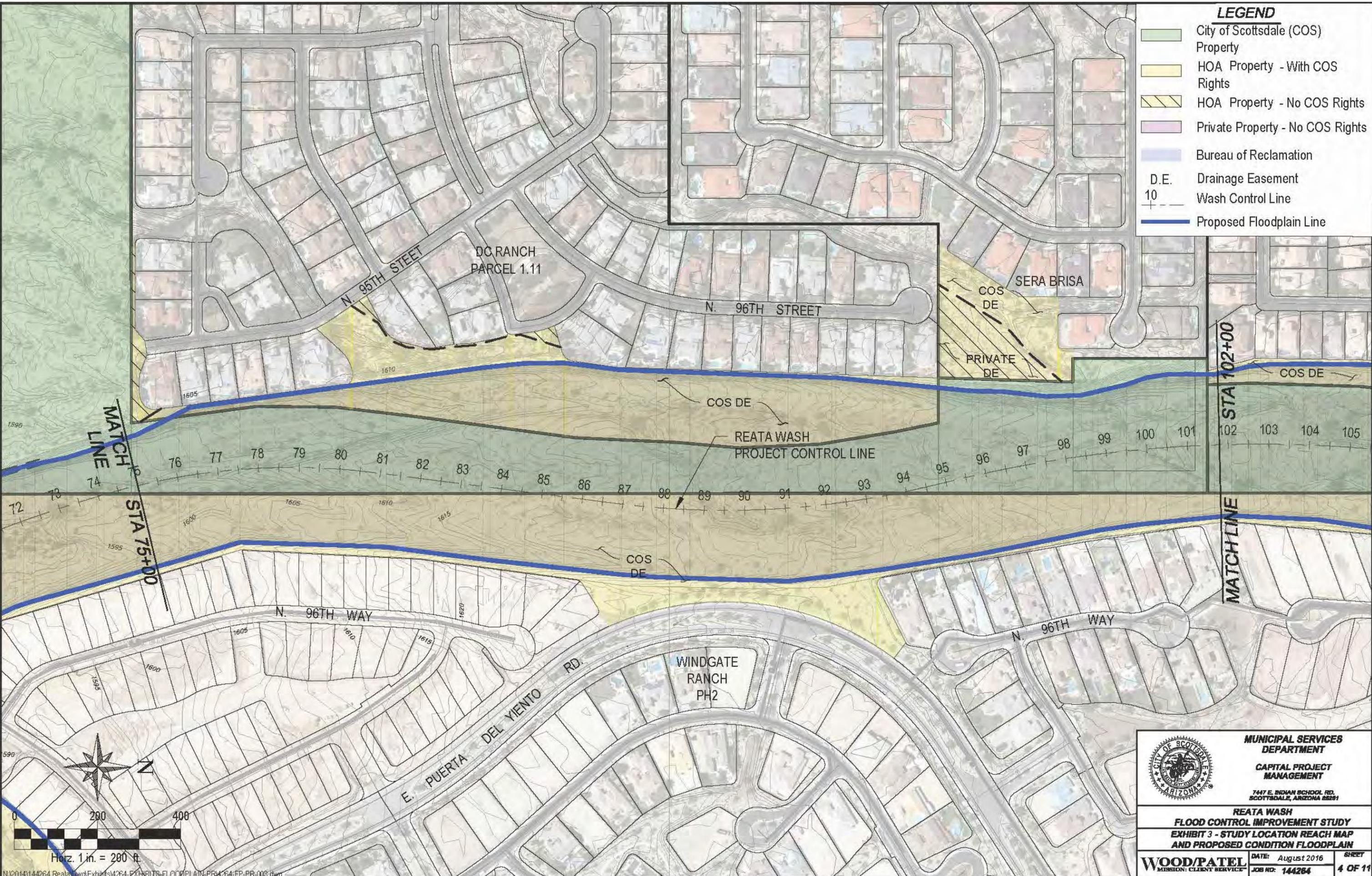
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 SCOTTSDALE, ARIZONA 85261

REATA WASH FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 3 - STUDY LOCATION REACH MAP AND PROPOSED CONDITION FLOODPLAIN

WOODPATEL DATE: August 2016 SHEET
 MISSION: CLIENT SERVICE JOB NO: 144264 3 OF 11

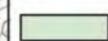
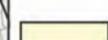
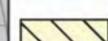
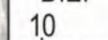
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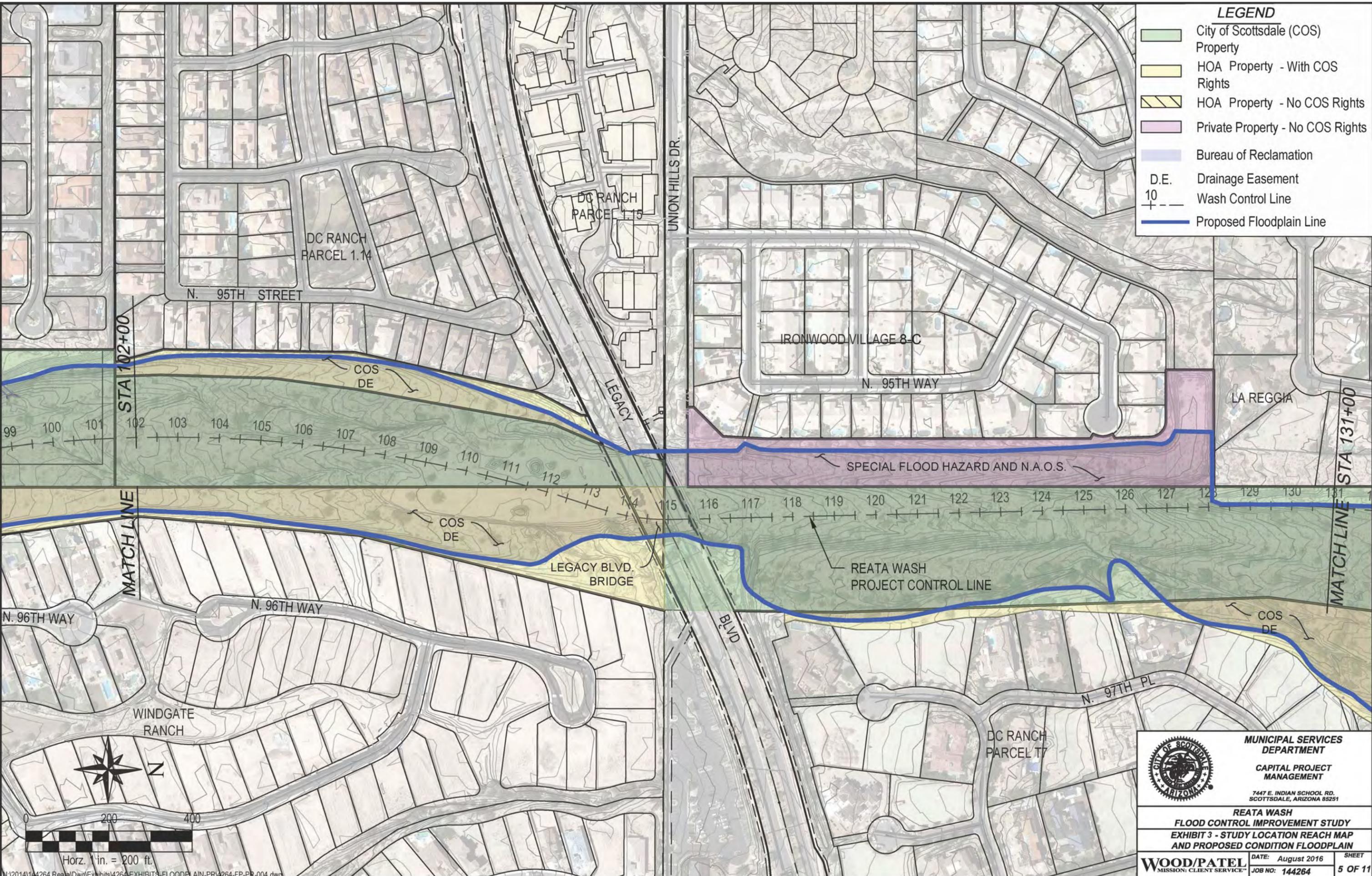
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CITY OF SCOTTSDALE ARIZONA

MUNICIPAL SERVICES DEPARTMENT

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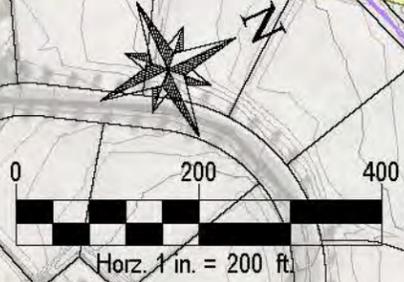
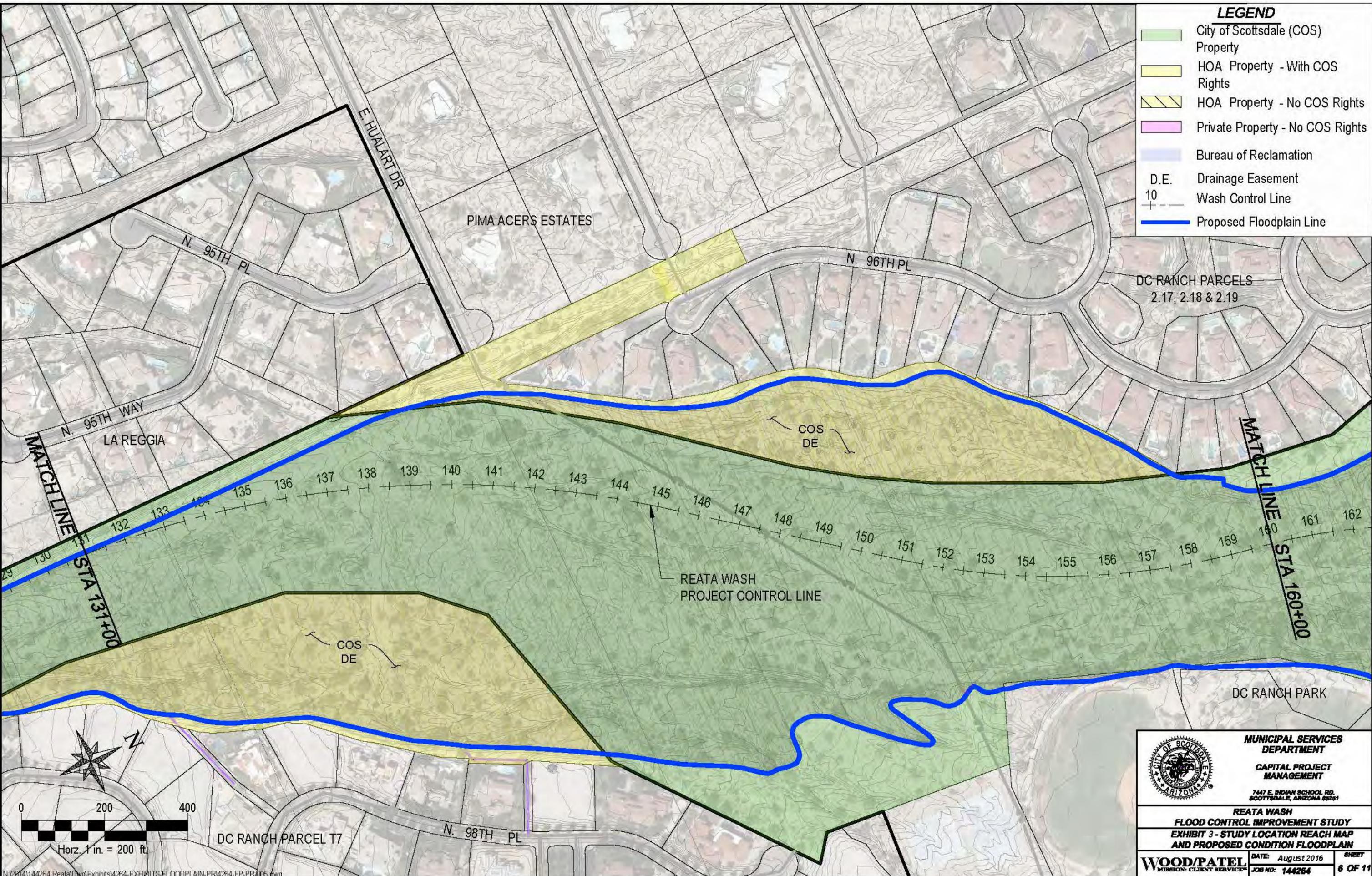
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EXHIBIT 3 - STUDY LOCATION REACH MAP AND PROPOSED CONDITION FLOODPLAIN

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LEGEND

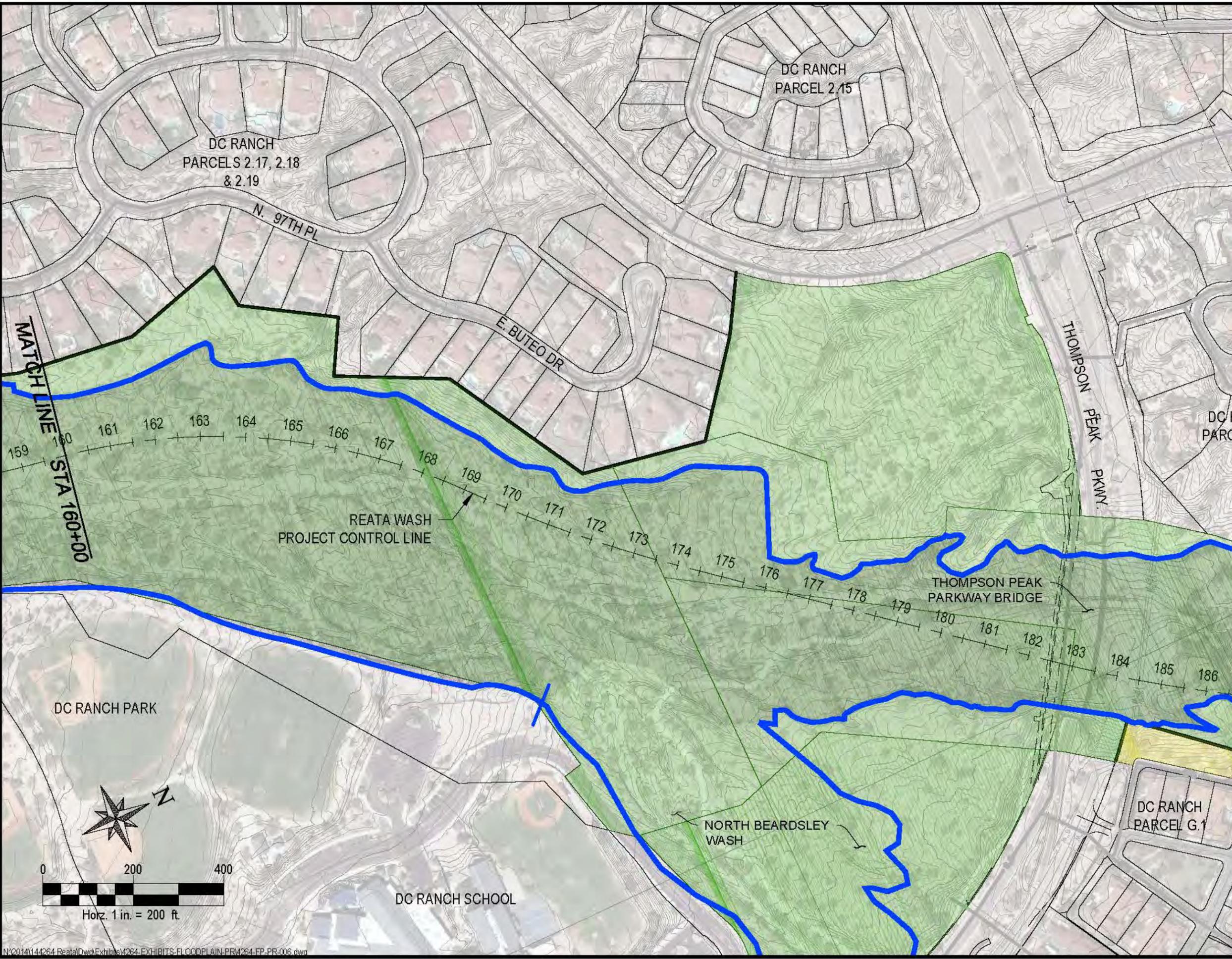
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DC RANCH PARK

DC RANCH
PARCEL 2.15

DC RANCH
PARCELS 2.17, 2.18
& 2.19

DC RANCH
PARCEL 4.23

DC RANCH
PARCEL G.1

DC RANCH SCHOOL

NORTH BEARDSLEY
WASH

THOMPSON PEAK
PARKWAY BRIDGE

N. 97TH PL

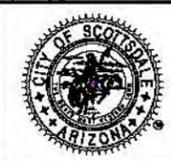
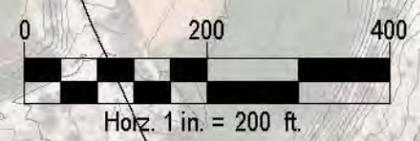
E. BUTEO DR

THOMPSON PEAK
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COS DE

MATCH LINE
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**MUNICIPAL SERVICES
DEPARTMENT**

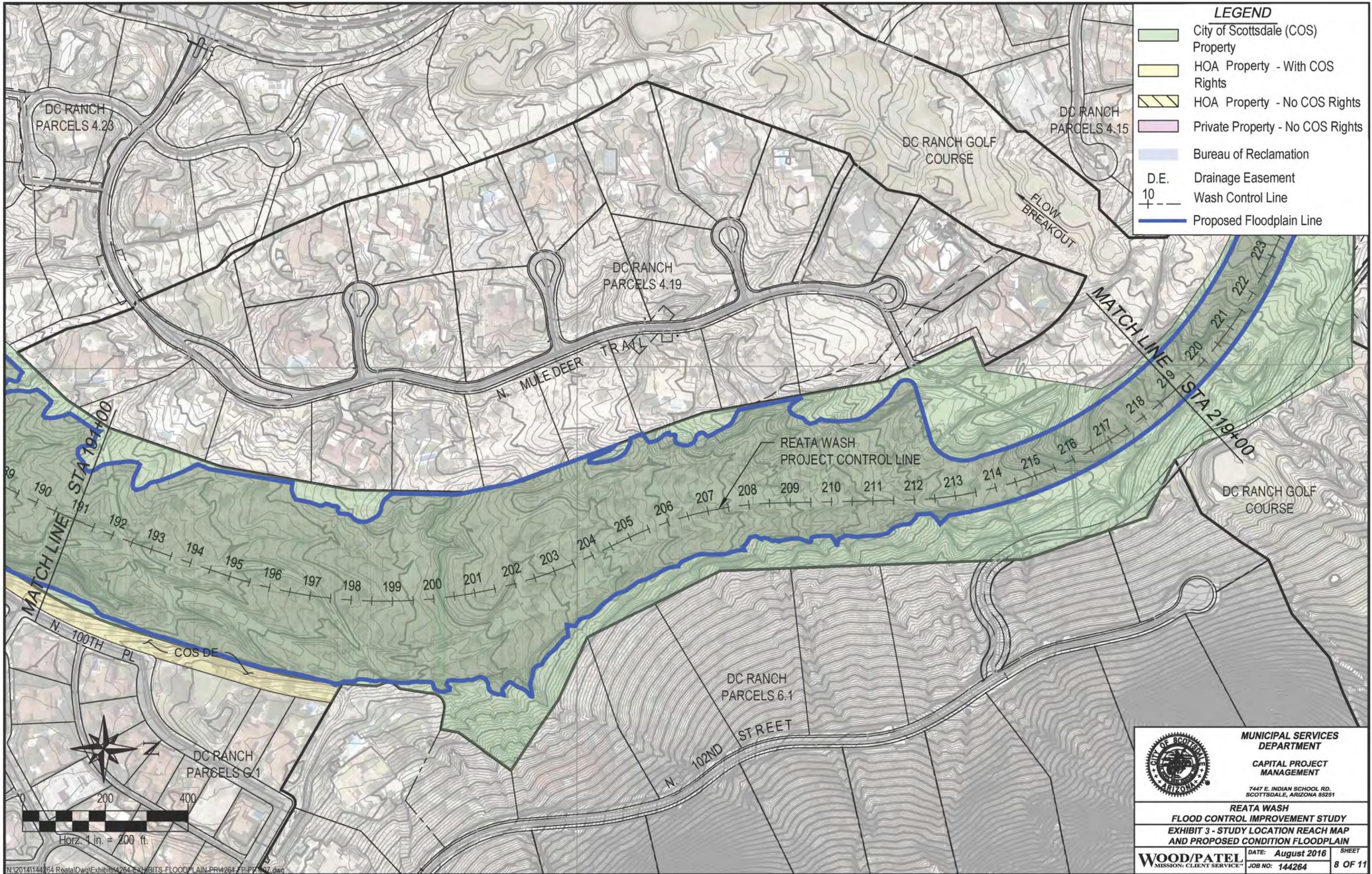
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LEGEND

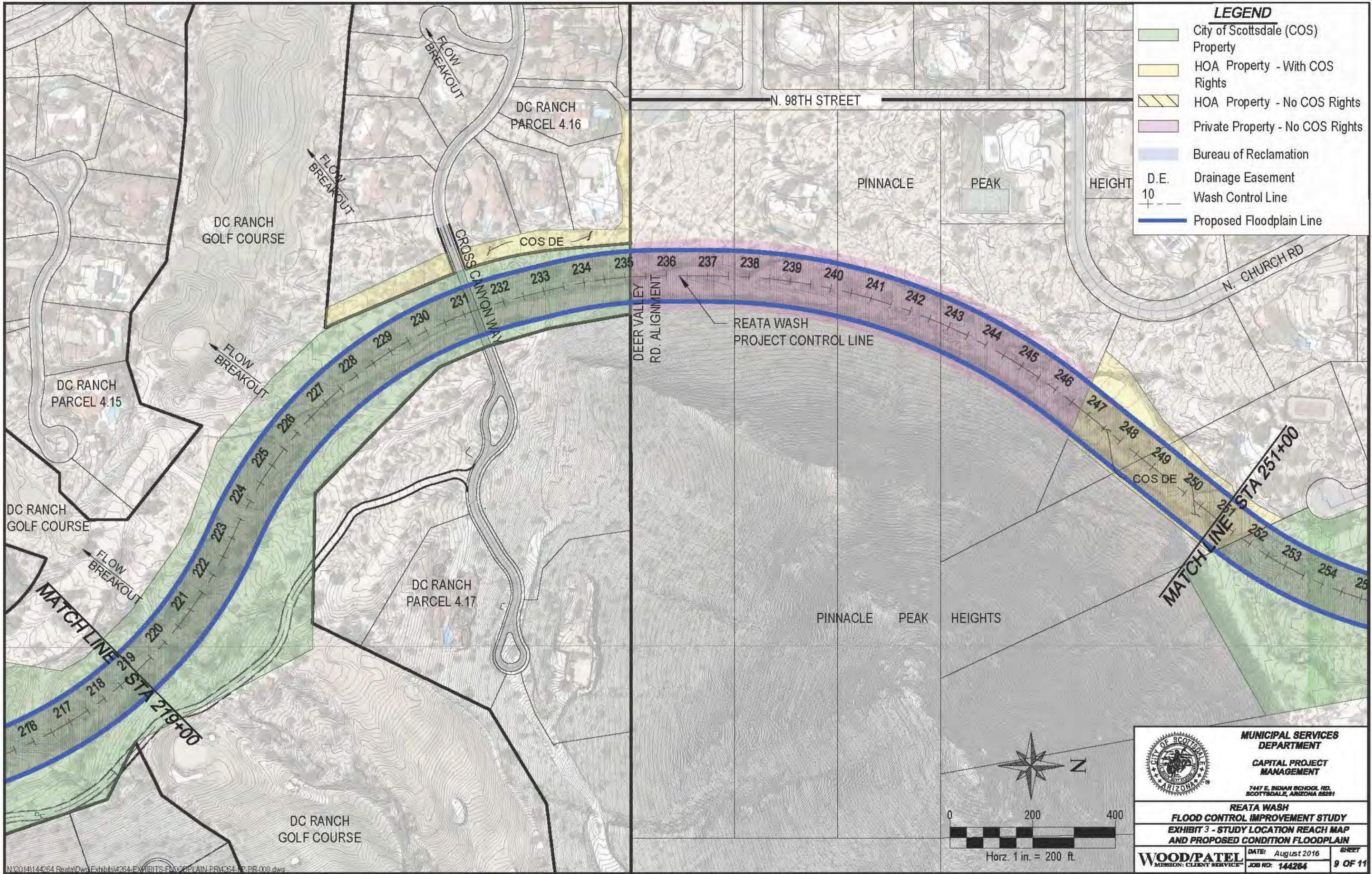
- City of Scottsdale (COS) Property
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- Bureau of Reclamation
- D.E. Drainage Easement
- 10' Wash Control Line
- Proposed Floodplain Line

Horz. 1 in. = 200 ft.

MUNICIPAL SERVICES DEPARTMENT
CAPITAL PROJECT MANAGEMENT
 7447 E. INDIAN SCHOOL RD.
 SCOTTSDALE, ARIZONA 85251

REATA WASH FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 3 - STUDY LOCATION REACH MAP AND PROPOSED CONDITION FLOODPLAIN

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| WOOD/PATEL MISSION: CLIENT SERVICE™ | DATE: August 2016 | SHEET |
| JOB NO: 144264 | | 8 OF 11 |



LEGEND

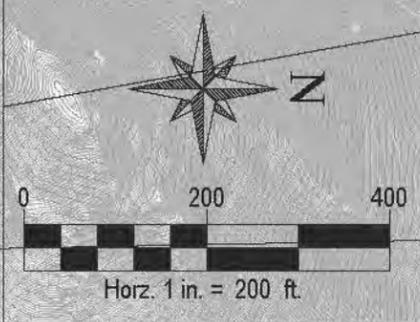
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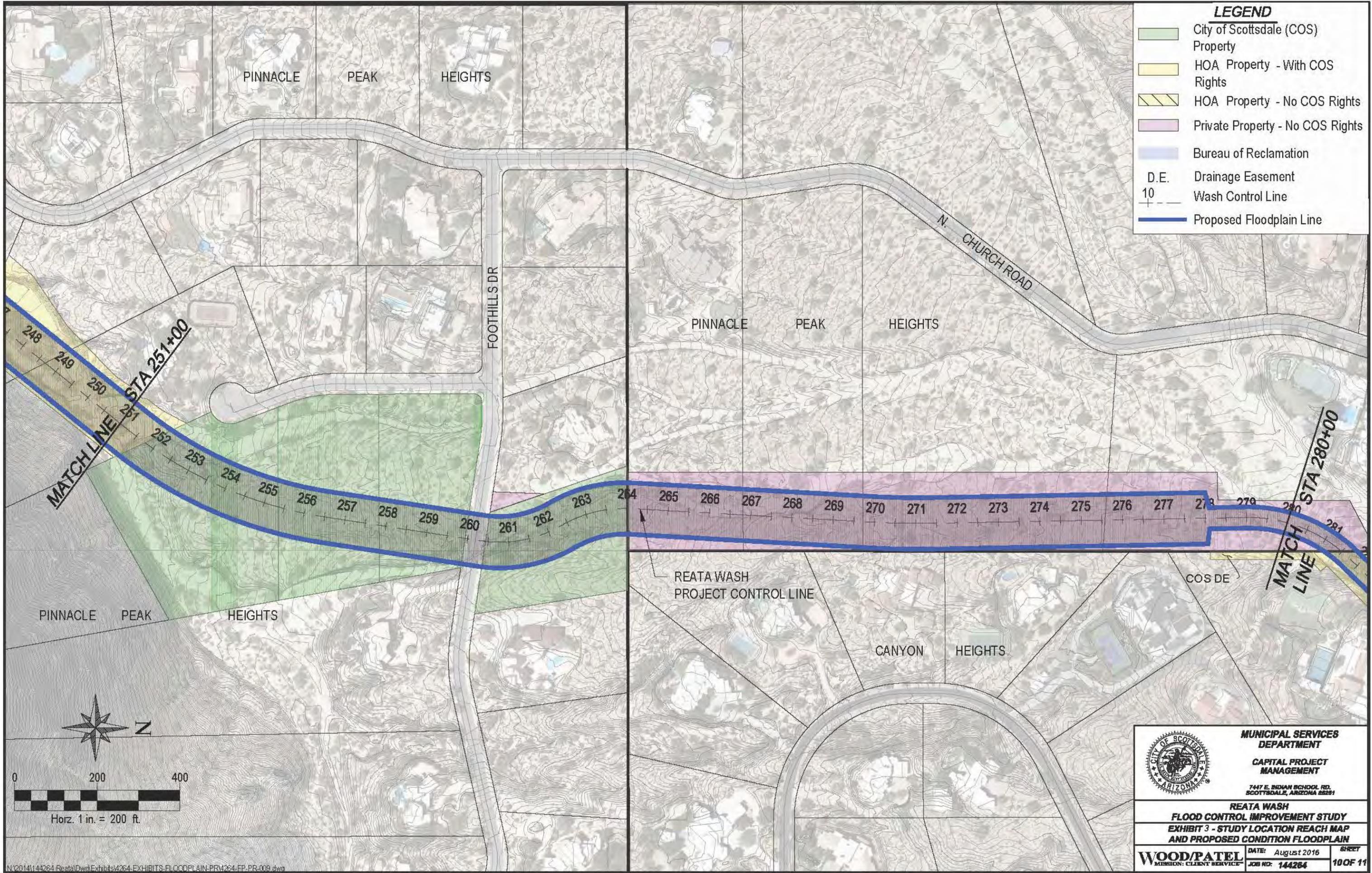


MUNICIPAL SERVICES DEPARTMENT
CAPITAL PROJECT MANAGEMENT
 7447 E. INDIAN SCHOOL RD.
 SCOTTSDALE, ARIZONA 85261

REATA WASH
FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 3 - STUDY LOCATION REACH MAP
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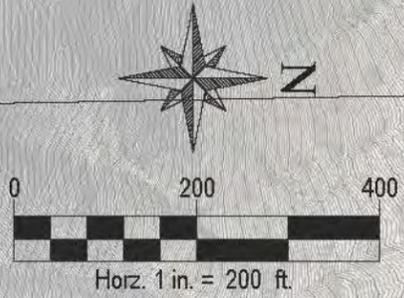
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| WOOD/PATEL <small>MISSION: CLIENT SERVICE</small> | DATE: August 2016 | SHEET |
| | JOB NO: 144264 | 9 OF 11 |



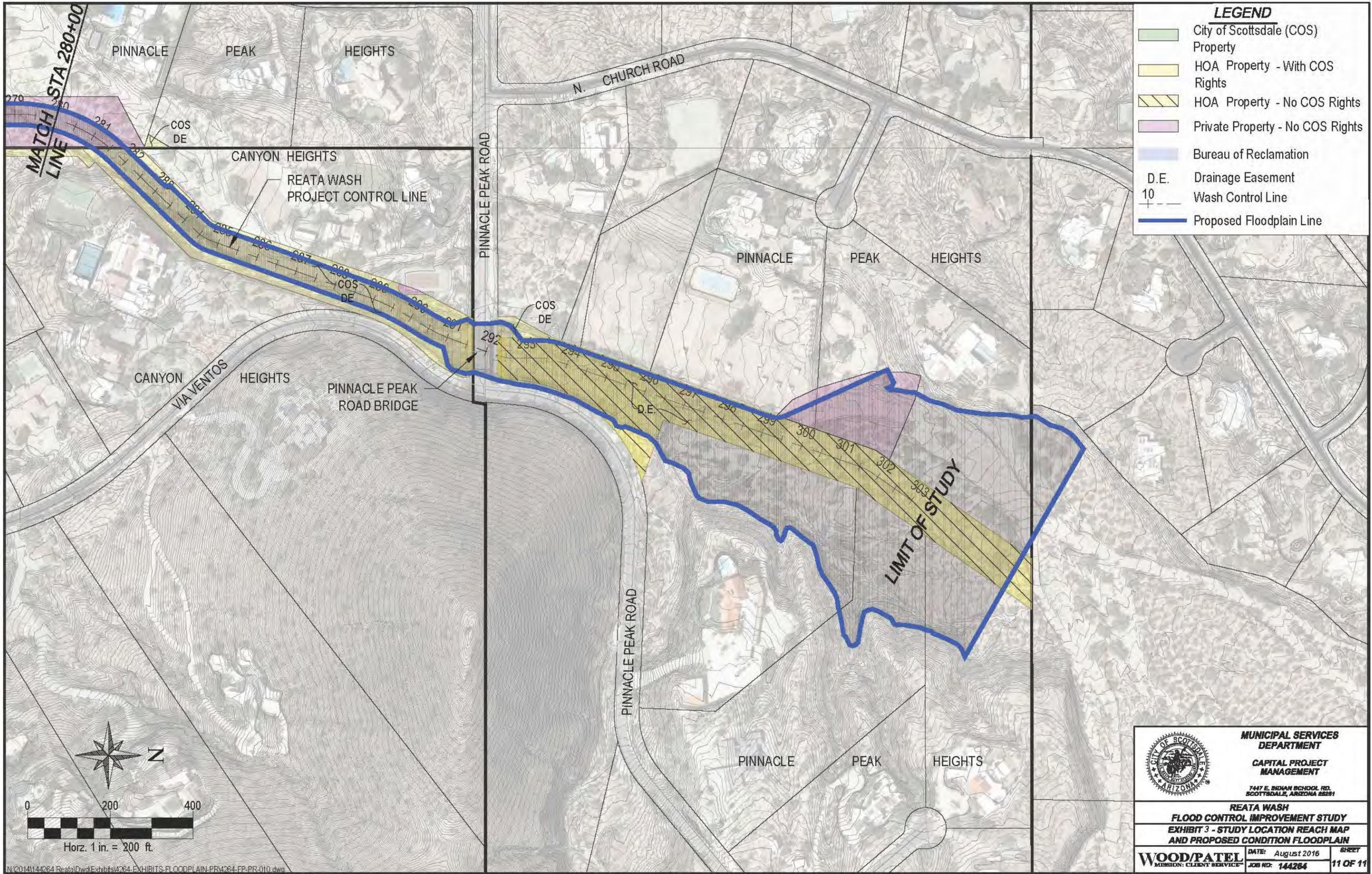


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| <p>MUNICIPAL SERVICES DEPARTMENT CAPITAL PROJECT MANAGEMENT <small>7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85261</small></p> | REATA WASH | |
| | FLOOD CONTROL IMPROVEMENT STUDY | |
| | EXHIBIT 3 - STUDY LOCATION REACH MAP AND PROPOSED CONDITION FLOODPLAIN | |
| WOOD/PATEL <small>MISSION: CLIENT SERVICE™</small> | DATE: August 2016 | SHEET JOB NO: 144264 |
| | | 10 OF 11 |



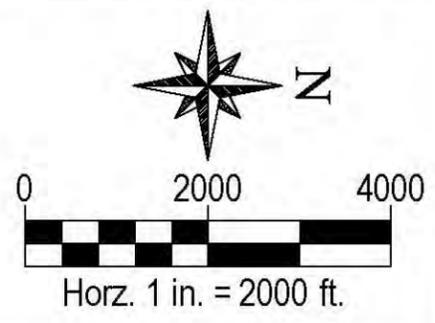
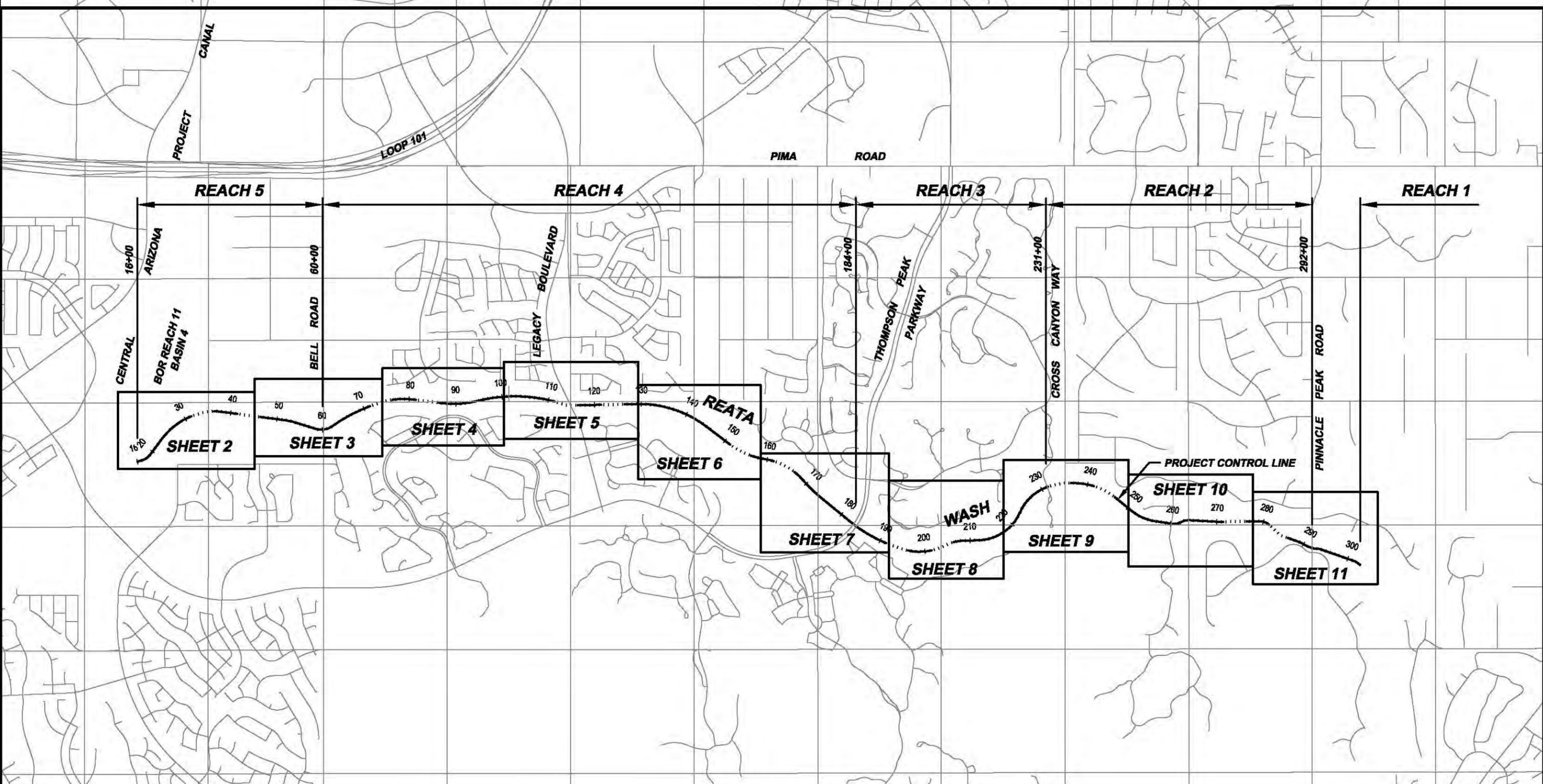
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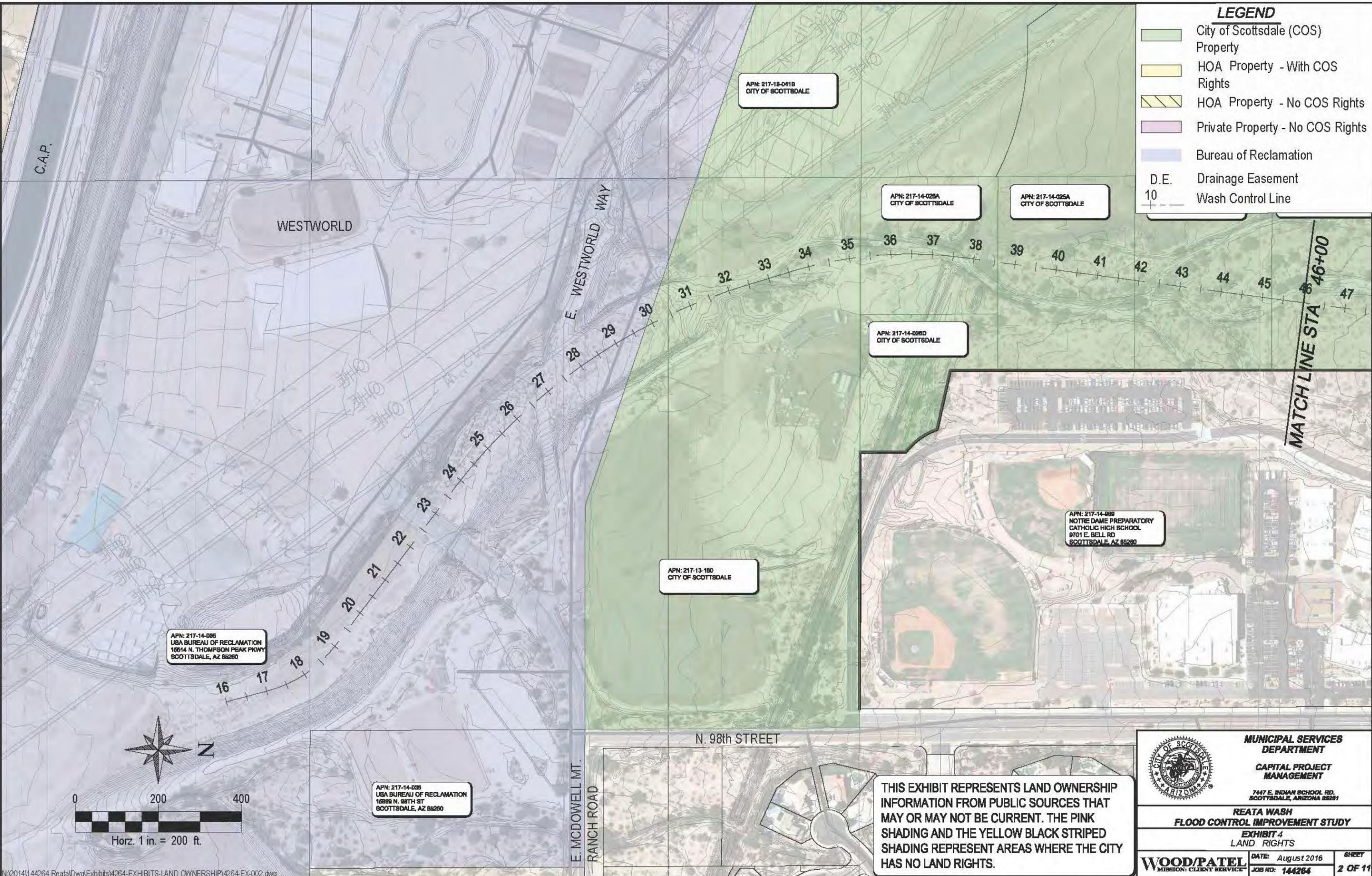
EXHIBIT 4
LAND RIGHTS



| | | |
|---|---|-------------------------|
|  | PUBLIC WORKS | |
| | CAPITAL PROJECT MANAGEMENT | |
| | 7417 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251 | |
| | REATA WASH FLOOD CONTROL IMPROVEMENT STUDY EXHIBIT 4 LAND RIGHTS | |
| WOOD/PATEL MISSION: CLIENT SERVICE™ | DATE: August 2016 JOB NO: 144264 | SHEET 1 OF 11 |

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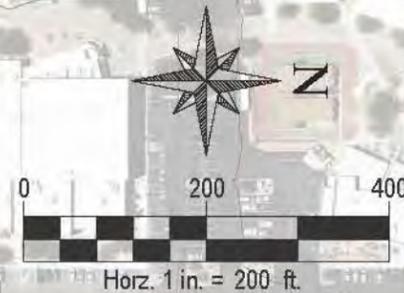
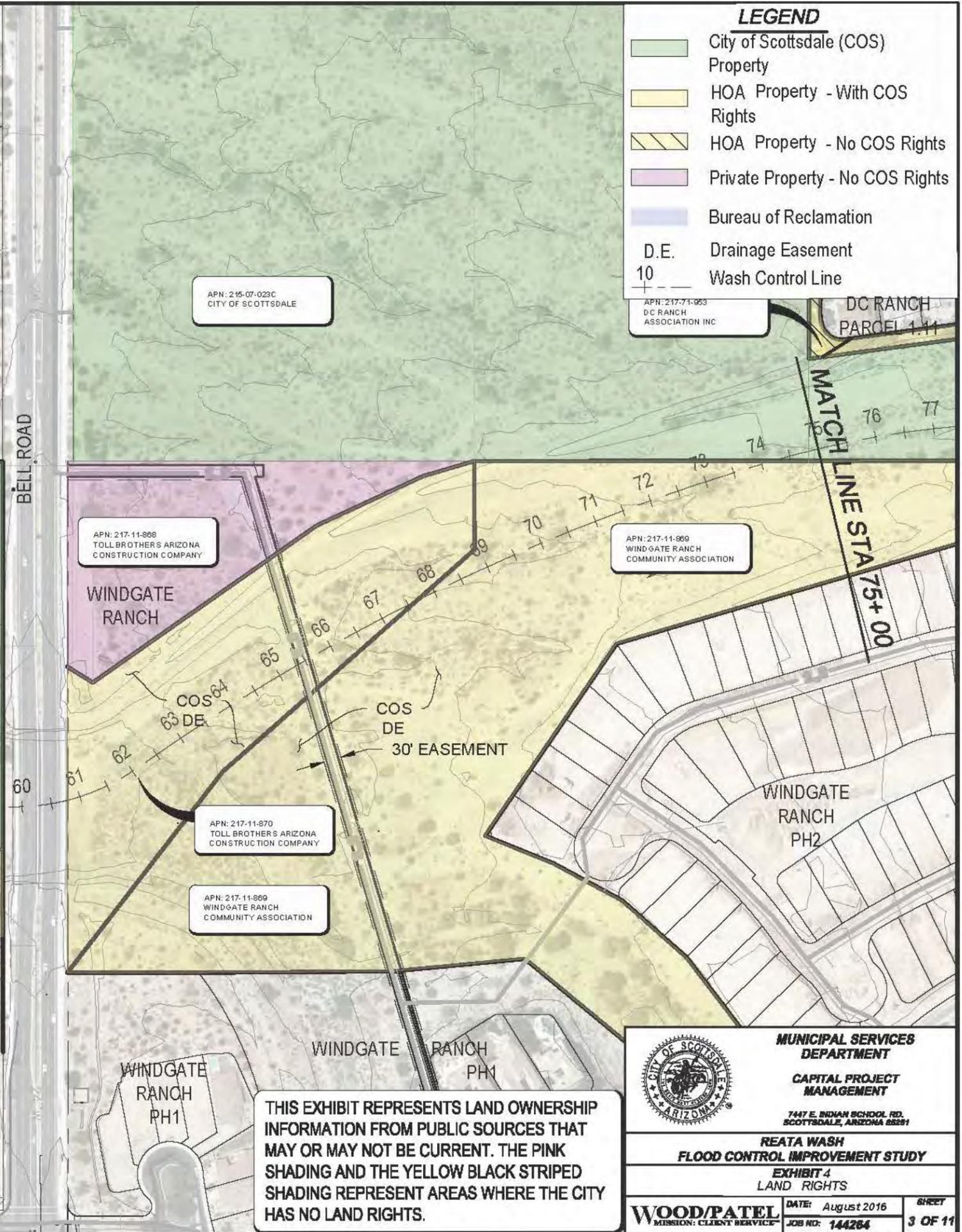
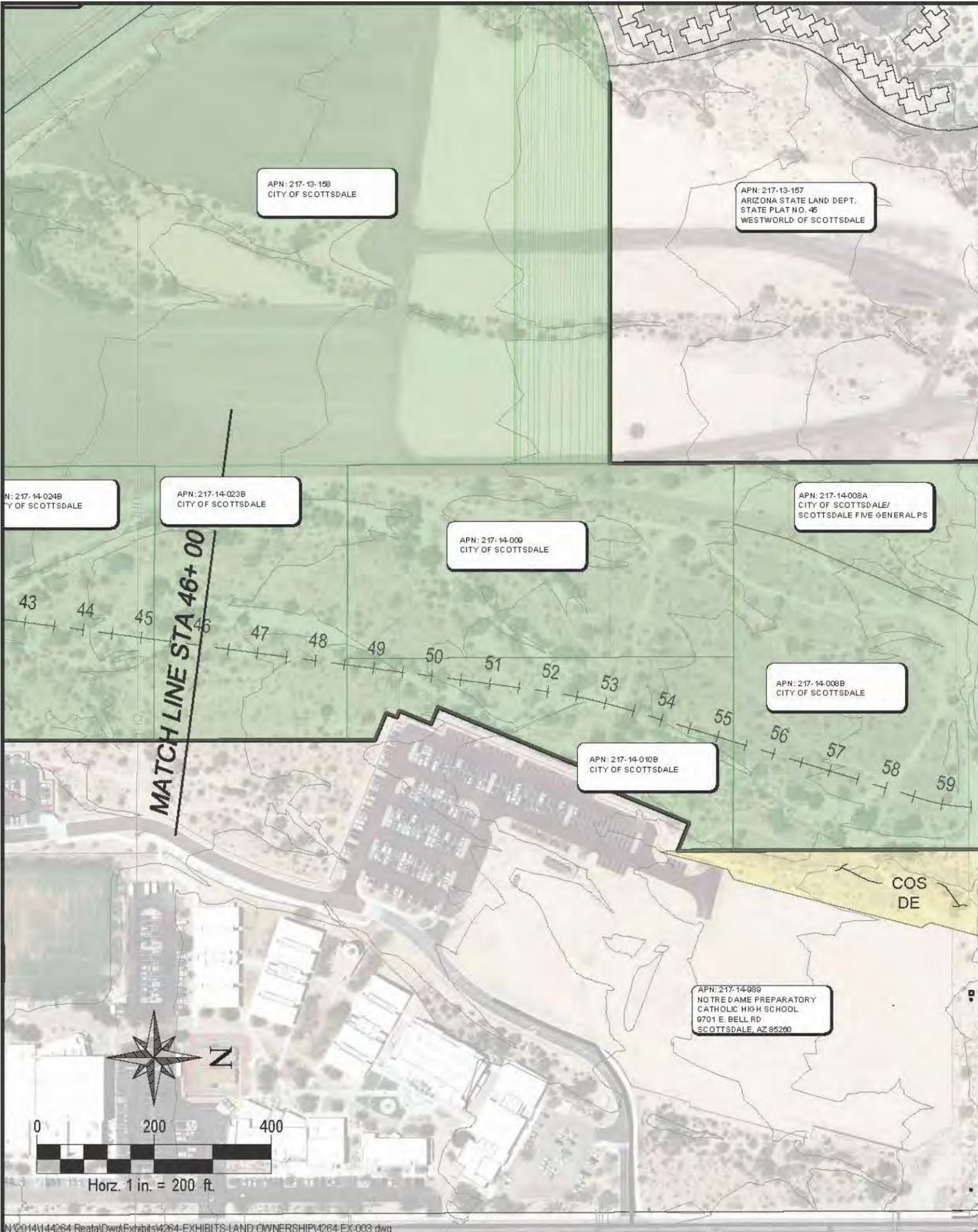


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| | | | | | | |
|--|--|-------------------|-------|--|----------------|---------|
|  <p>MUNICIPAL SERVICES DEPARTMENT CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85261</p> | | | | | | |
| <p>REATA WASH FLOOD CONTROL IMPROVEMENT STUDY EXHIBIT 4 LAND RIGHTS</p> | | | | | | |
| <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">WOOD/PATEL MISSION: CLIENT SERVICE</td> <td style="width: 20%;">DATE: August 2016</td> <td style="width: 20%; text-align: right;">SHEET</td> </tr> <tr> <td></td> <td>JOB NO: 144264</td> <td style="text-align: right;">2 OF 11</td> </tr> </table> | WOOD/PATEL MISSION: CLIENT SERVICE | DATE: August 2016 | SHEET | | JOB NO: 144264 | 2 OF 11 |
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| | JOB NO: 144264 | 2 OF 11 | | | | |

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MUNICIPAL SERVICES DEPARTMENT

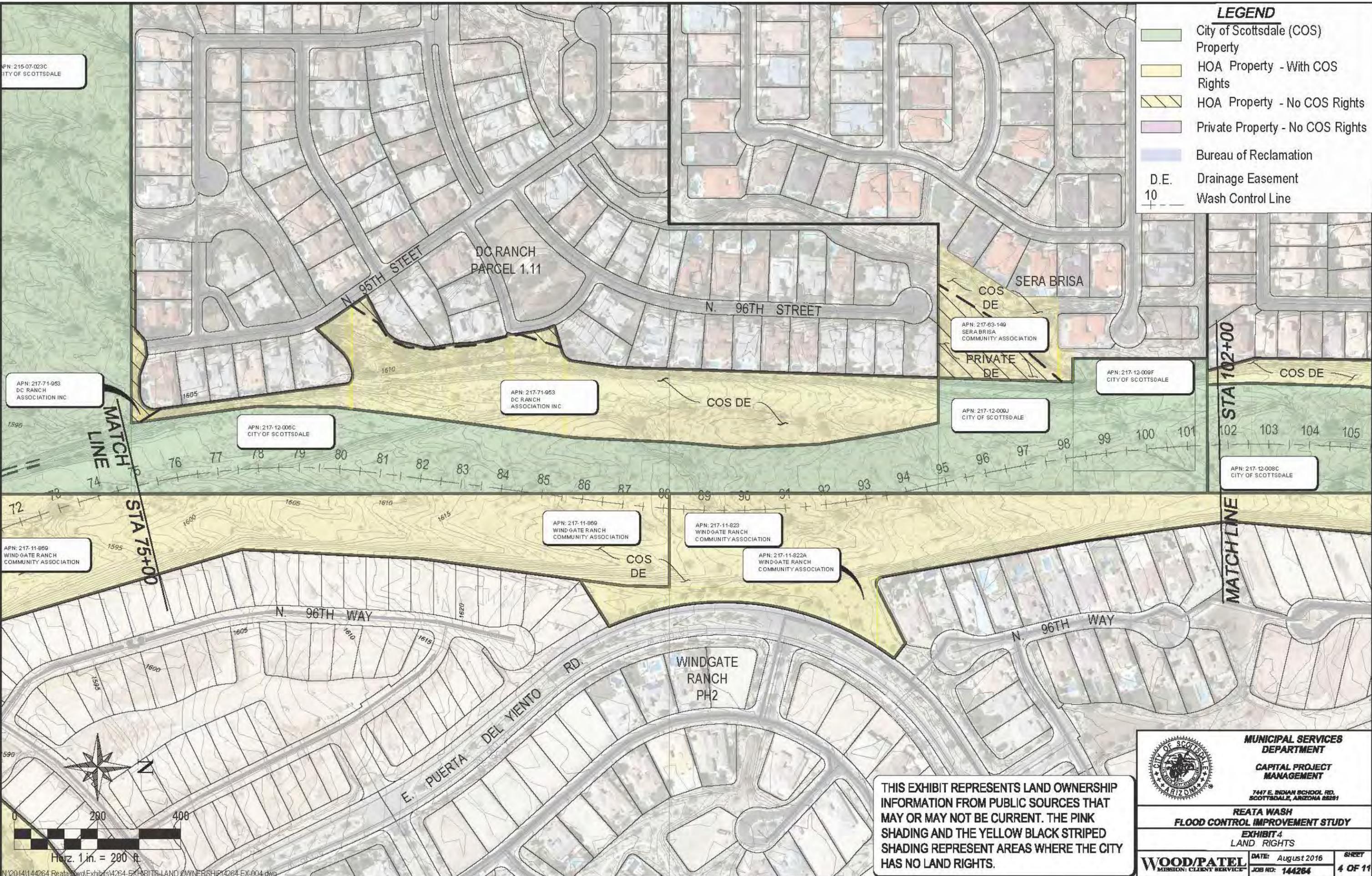
CAPITAL PROJECT MANAGEMENT

7447 E. INDIAN SCHOOL RD.
SCOTTSDALE, ARIZONA 85261

REATA WASH FLOOD CONTROL IMPROVEMENT STUDY

EXHIBIT 4 LAND RIGHTS

WOOD/PATEL DATE: August 2016 SHEET 3 OF 11
MISSION: CLIENT SERVICE JOB NO: 144264



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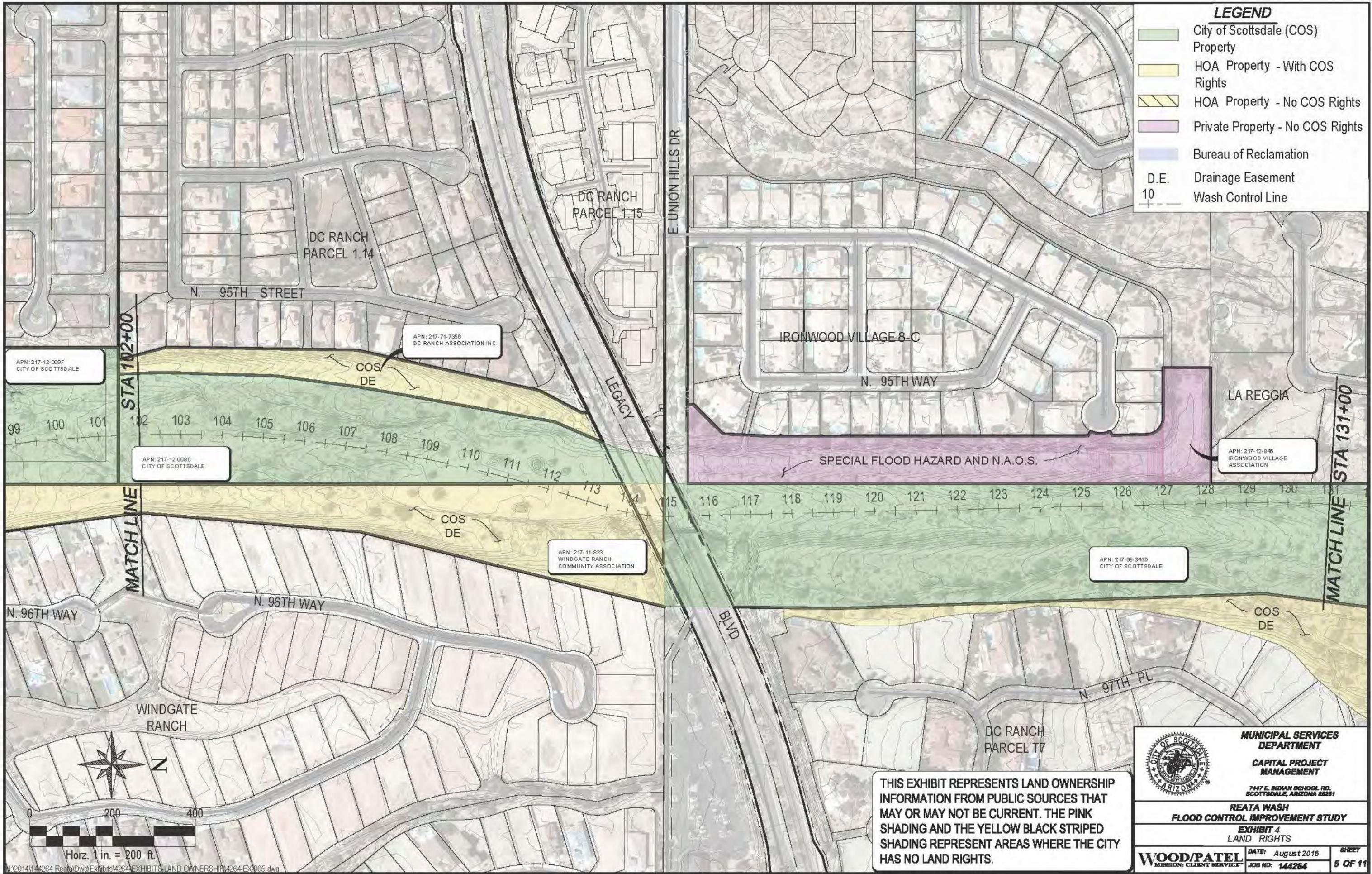
MUNICIPAL SERVICES DEPARTMENT
CAPITAL PROJECT MANAGEMENT
 7417 E. INDIAN SCHOOL RD.
 SCOTTSDALE, ARIZONA 85261

REATA WASH FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 4 LAND RIGHTS

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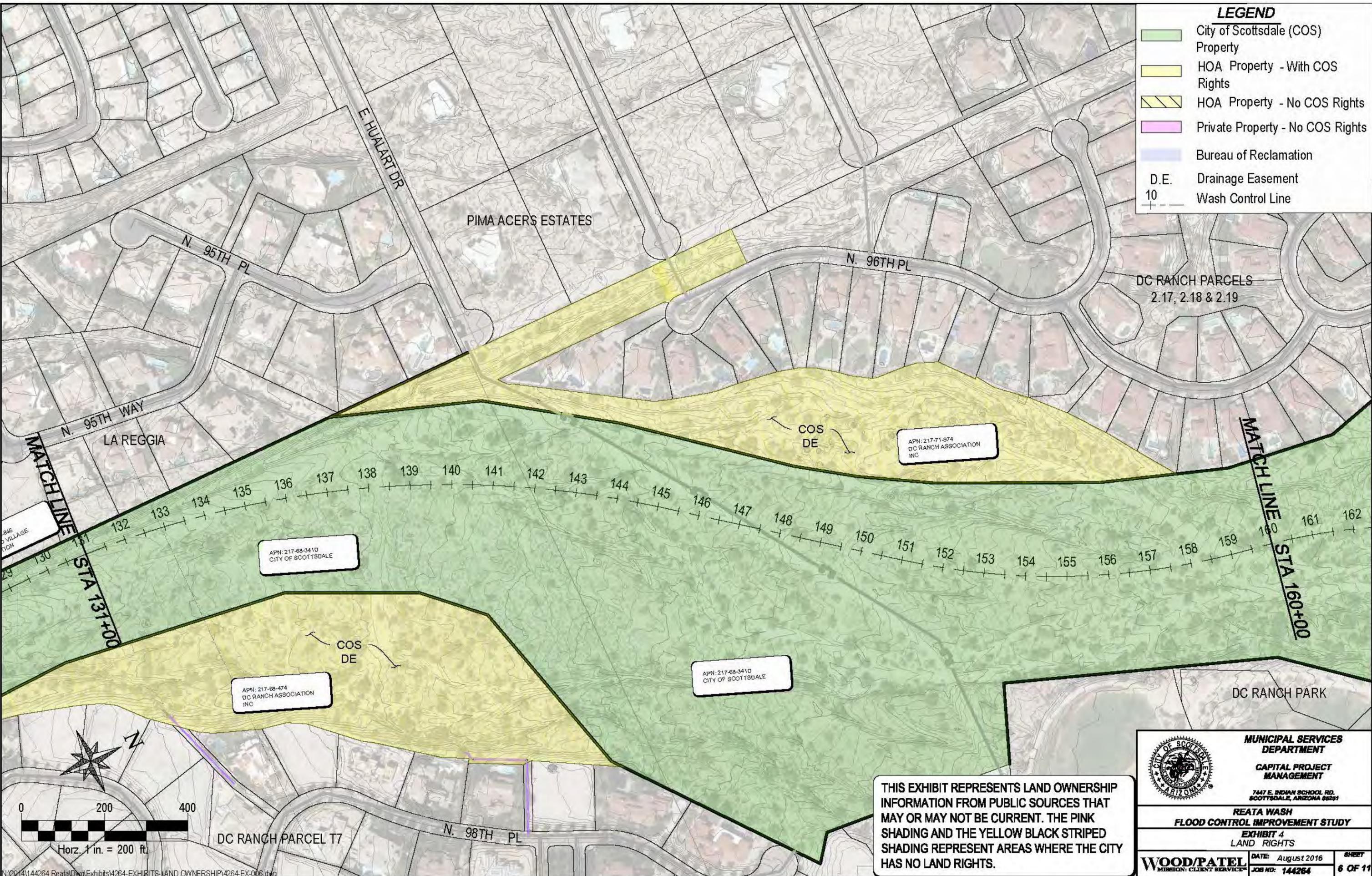
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 SCOTTSDALE, ARIZONA 85261

REATA WASH FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 4 LAND RIGHTS

WOOD/PATEL DATE: August 2016 SHEET
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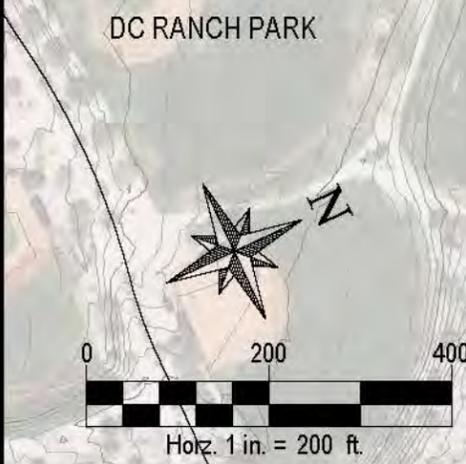
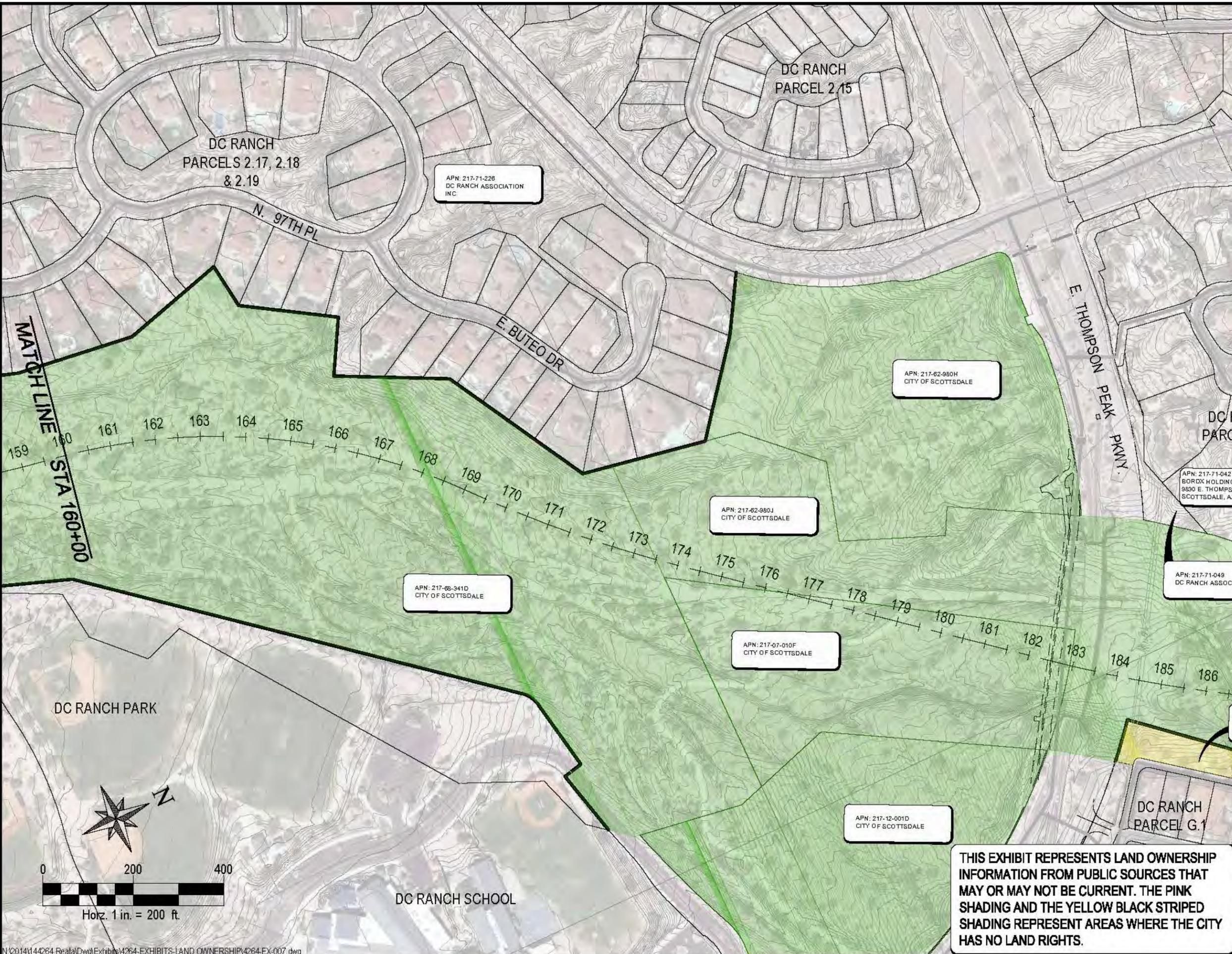


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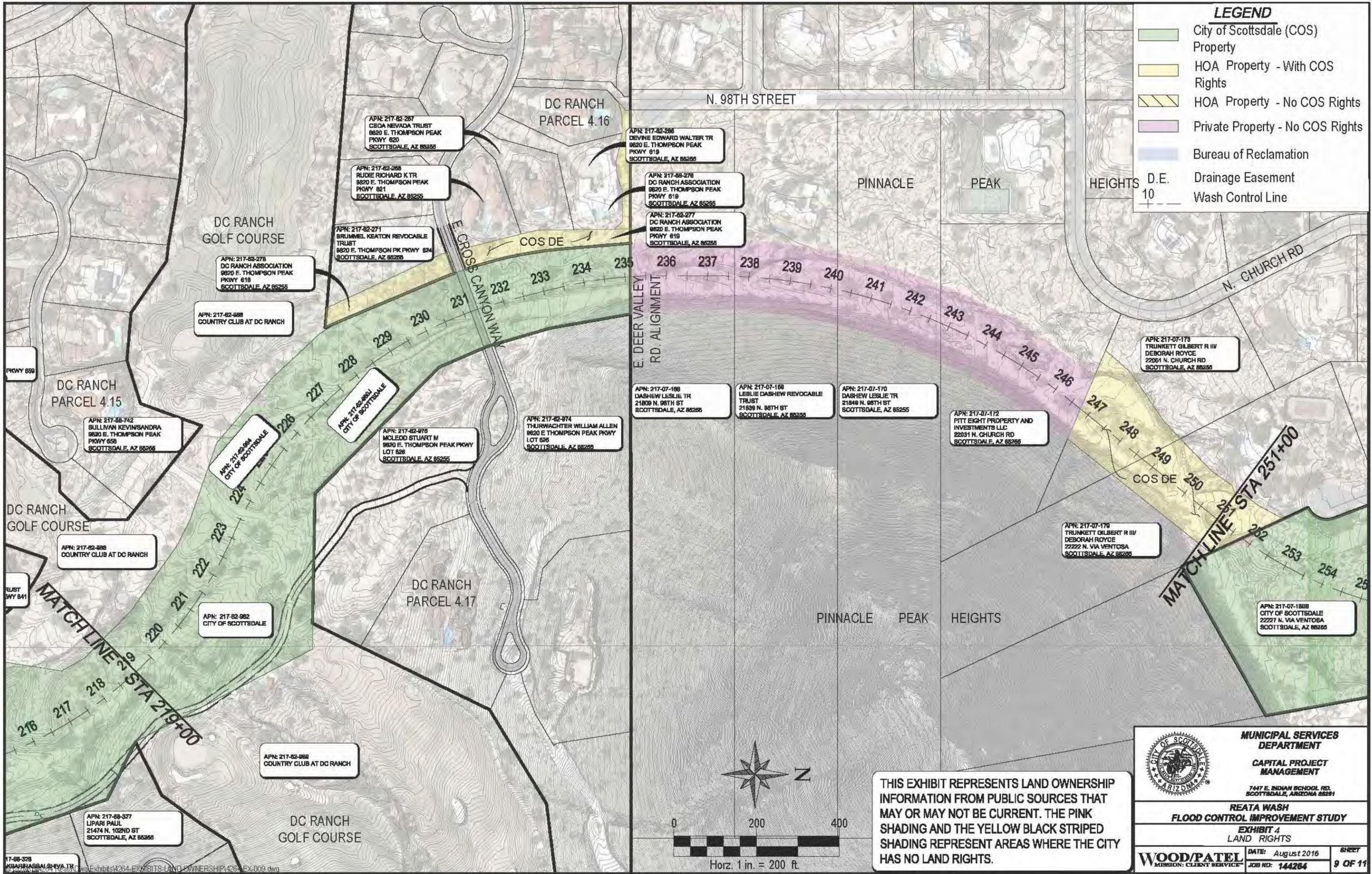
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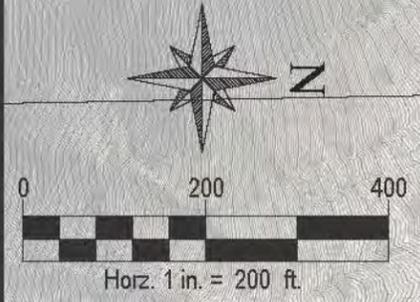
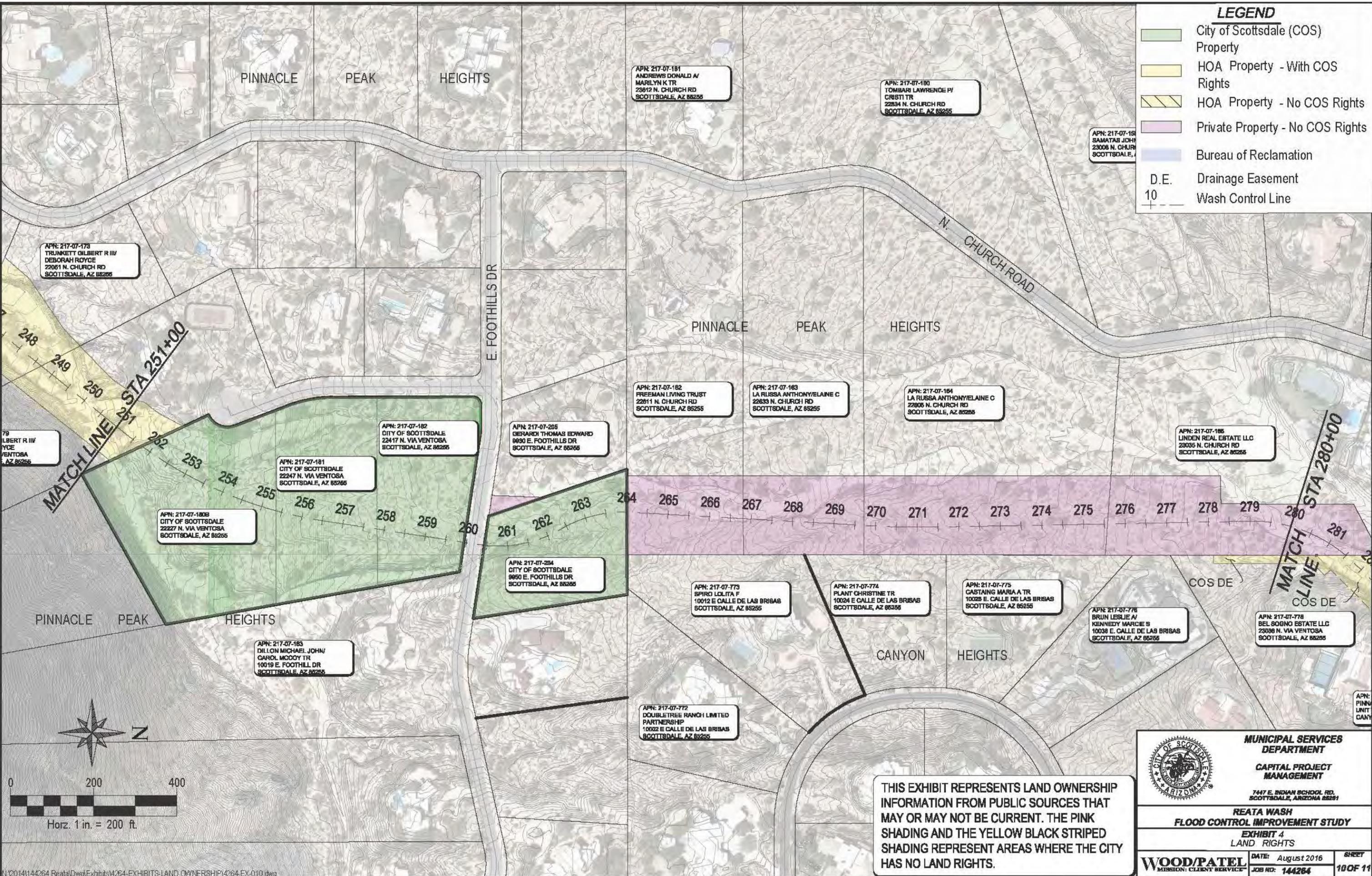
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 SCOTTSDALE, ARIZONA 85261

REATA WASH FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 4 LAND RIGHTS

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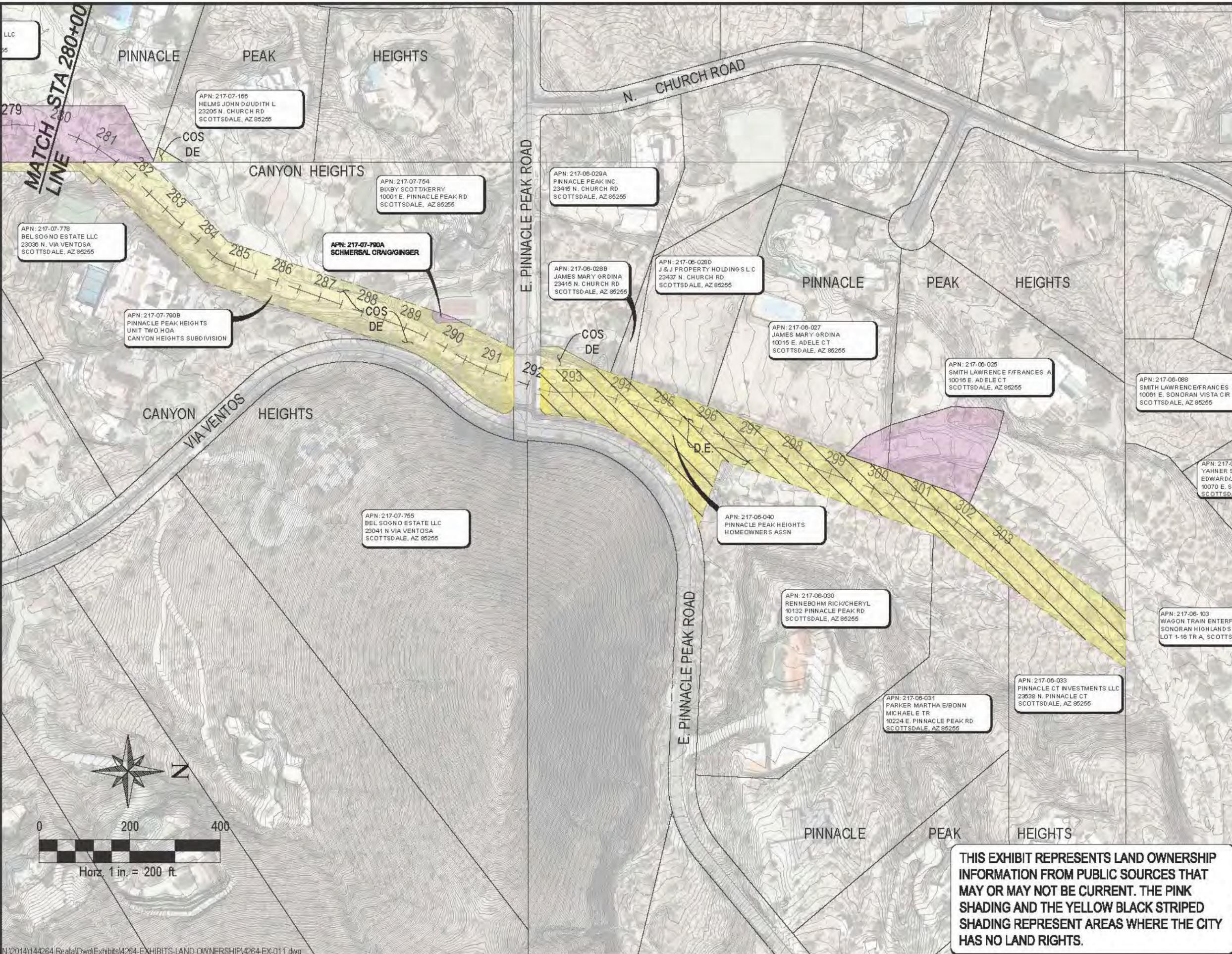
CAPITAL PROJECT MANAGEMENT

7447 E. RIDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251

REATA WASH FLOOD CONTROL IMPROVEMENT STUDY

EXHIBIT 4 LAND RIGHTS

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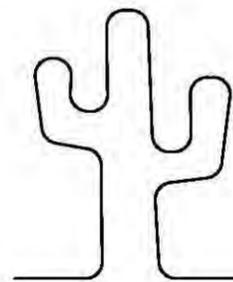
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EXHIBIT 5
CONCEPT DESIGN PLAN (15%)



CITY OF SCOTTSDALE

PUBLIC IMPROVEMENTS



COUNCIL
 W.J. "JIM" LANE, MAYOR
 SUZANNE KLAPP
 VIRGINIA KORTE
 KATHY LITTLEFIELD
 LINDA MILHAVEN
 GUY PHILLIPS
 DAVID N. SMITH
CITY MANAGER
 BRIAN BIESEMEYER, ACTING
CITY ATTORNEY
 BRUCE WASHBURN
CITY CLERK
 CAROLYN JAGGER

"AS-BUILT" CERTIFICATION

I HEREBY CERTIFY THAT THE "AS-BUILT" IMPROVEMENTS AS SHOWN HEREON ARE LOCATED AS NOTED, AND THE LOCATIONS ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR _____ DATE _____

CITY OF SCOTTSDALE

REVIEWED AND RECOMMENDED APPROVAL BY:

| PAVING | STRUCTURES |
|-----------------------|-------------------|
| GRADING & DRAINAGE | BUILDING |
| WATER & SEWER | PLUMBING |
| TRAFFIC | MECHANICAL |
| PLANNING IMPROVEMENTS | ELECTRICAL |
| PLANNING FACILITIES | FIRE IMPROVEMENTS |
| LANDSCAPE | FIRE FACILITIES |
| NATIVE PLANT | |

ENGINEERING COORDINATION MANAGER (OR DESIGNEE) _____ DATE _____

BUILDING OFFICIAL (OR DESIGNEE) _____ DATE _____

Two working days before you dig
CALL FOR THE BLUE STAKES
1-800-782-5348
 Blue Stake Center

ENGINEER
WOOD/PATEL
 MISSION: CLIENT SERVICE™
 PHOENIX • MESA • TUCSON
 2001 W. BUCKLEBOURNE AVE.
 TUCSON, AZ 85742
 (520) 385-8600

REATA WASH FLOOD CONTROL IMPROVEMENT STUDY PROJECT NO. 14SQ011 BID NO. XXXX



15% DESIGN
 August 2016

SHEET INDEX

| Sht. No. | Dwg. No. | Description |
|----------|----------|---------------------------------|
| 1 | G1 | COVER SHEET/VICINITY MAP |
| 2 | G2 | GENERAL NOTES AND LEGEND |
| 3 | G3 | KEY MAP SHEET |
| 4-5 | G4-G5 | TYPICAL SECTIONS AND DETAILS |
| 6 | G6 | GEOMETRIC SHEET |
| 7-19 | C1-C13 | CHANNEL PLAN AND PROFILE SHEETS |
| 20 | L1 | LANDSCAPING DETAILS |

EXHIBIT 5
CONCEPT DESIGN PLANS (15%)
 PRELIMINARY NOT FOR
 CONSTRUCTION OR RECORDING

BENCH MARKS (COS NAVD '88)

| No. | Description |
|-----|---|
| 1 | GENERAL LAND OFFICE BRASS CAP AT THE NORTHEAST CORNER OF SECTION 19, T. 4N., R. 5E, CITY OF SCOTTSDALE GPS POINT NO. 7192 ELEVATION= 1973.362 (C.O.S. NAVD '88) |

Certificate of Approval to Construct Maricopa County Environmental Services Department
 Water and Waste Management Division

MCESD # _____
 Public Water System ID Number 0407- (and/or) Waste Water System ID Number 0437-
 Project Description: _____

Project Location: _____
 Project Owner: _____

Permitted to AAD Title 18, Chapter 4, Article 2; or AAD Title 18, Chapter 6, Article 2; and/or Maricopa County Environmental Health Code Chapter 8 or 9. This certificate of approval to construct the above described facilities as represented by the attached plan is valid upon review and signature by a Maricopa County Environmental Services Department representative given the following provisions:
 1.) A Request for Certificate of Approval of Construction, together with an Engineer's Certificate of Completion, and needed engineering consultant fees, shall be submitted to this Department prior to approval of construction and startup.
 2.) The Approval to Construct is void if major modifications occur to the plans without the knowledge and consent of the department.
 If Construction has not started within one year of the approval date, this certificate will be void. An extension of time may be available upon written request.
 Approved By: _____ Date Approved: _____

CC: MCESD FILE: ADEQ
 Engineer: AZ. Corp. Commission

REATA WASH FLOOD CONTROL IMPROVEMENT STUDY
PROJECT NO. 14SQ011 BID NO. XXXX
 DR/STAFF APPROVAL NO. _____
 PLAN REVIEW NO. _____

GENERAL CONSTRUCTION NOTES FOR CAPITAL PROJECTS

- ALL IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH THE LATEST MARICOPA COUNTY ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF SCOTTSDALE SUPPLEMENTAL STANDARD SPECIFICATIONS AND DETAILS AND CITY OF SCOTTSDALE'S DESIGN STANDARDS & POLICIES MANUAL (DS&PM). IF THERE IS A CONFLICT, THE LATTER SHALL APPLY. ALL FACILITIES CONSTRUCTION SHALL COMPLY WITH THE LATEST BUILDING CODES AS AMENDED AND ADOPTED BY THE CITY OF SCOTTSDALE.
- THE ENGINEERING DESIGNS ON THESE PLANS ARE APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. IF CONSTRUCTION QUANTITIES ARE SHOWN ON THESE PLANS, THEY ARE NOT VERIFIED BY THE CITY.
- BASED ON THE INFORMATION SUBMITTED ON THE PLANS AND ASSOCIATED DOCUMENTS, THE CITY HAS REVIEWED AND FOUND THEM TO BE IN ACCORDANCE WITH THE CITY'S MUNICIPAL CODE AND ARE ACCEPTABLE FOR PERMIT ISSUANCE. THIS ACCEPTANCE BY THE CITY DOES NOT AUTHORIZE VIOLATIONS OF ANY APPLICABLE CODE, ORDINANCE OR STANDARD AS ADOPTED BY THE MUNICIPAL CODE.
- APPROVAL OF THE PLANS BY THE CITY IS VALID FOR SIX MONTHS. IF A PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN SIX MONTHS OF REVIEW, THE PLANS SHALL BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
- ANY DEVIATION FROM THE APPROVED PLANS SHALL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO THAT CHANGE BEING INCORPORATED INTO THE PROJECT.
- A CITY CAPITAL PROJECTS INSPECTOR WILL INSPECT ALL WORK WITHIN THE CITY RIGHTS-OF-WAY, EASEMENTS AND FACILITIES.
- ANY SPECIAL INSPECTION REQUIRED SHALL BE IN ADDITION TO ANY ROUTINE INSPECTION BY THE CITY.
- CITY ENCROACHMENT AND BUILDING PERMITS ARE REQUIRED FOR WORK IN PUBLIC RIGHTS-OF-WAY, EASEMENTS GRANTED FOR PUBLIC PURPOSES AND FACILITIES. PERMITS WILL BE ISSUED BY THE CITY THROUGH THE CITY'S ONE STOP SHOP. COPIES OF ALL PERMITS SHALL BE RETAINED ON-SITE AND SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS WILL RESULT IN IMMEDIATE WORK STOPPAGE UNTIL THE PROPER PERMIT DOCUMENTATION IS OBTAINED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR SALVAGING PROTECTED NATIVE PLANTS PRIOR TO THE START OF CONSTRUCTION.
- WHEREVER EXCAVATION IS DONE CONTACT THE BLUE STAKE CENTER AT (602) 263-1100 TWO WORKING DAYS BEFORE EXCAVATION IS TO BEGIN. THE CENTER WILL SEE THAT THE LOCATION OF THE UNDERGROUND UTILITY LINES IS IDENTIFIED FOR THE PROJECT.
- ALL EXCAVATION AND GRADING WHICH IS NOT IN PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC PURPOSES MUST CONFORM TO SECTION 1803 AND APPENDIX J OF THE 2008 EDITION OF THE INTERNATIONAL BUILDING CODE PREPARED BY THE INTERNATIONAL CODE COUNCIL. A PERMIT FOR THIS GRADING MUST BE SECURED FROM THE CITY.
- THRUST RESTRAINT, WHERE REQUIRED, ON ALL CITY WATER LINES SHALL BE PROVIDED USING MEGALUG MECHANICAL JOINT RESTRAINTS OR CITY-APPROVED EQUAL.
- ANY ASPHALT MIX DESIGN USED ON CITY PROJECTS SHALL HAVE BEEN APPROVED FOR THAT USE PER SECTION 5-10 THE CITY'S DS&PM AND APPEAR ON THE "APPROVED LIST OF ASPHALT MIXES" AS DISTRIBUTED BY THE EAST VALLEY ASPHALT COMMITTEE (EVAC).
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REPLACE, AT NO ADDITIONAL COST TO THE CITY, ANY AND ALL PAVEMENT, SIDEWALK, CURB AND GUTTER, DRAINAGE STRUCTURES, ETC. OUTSIDE THE PAY LIMIT THAT ARE DAMAGED DUE TO THEIR ACTIVITIES ON THE PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL AND REPLACEMENT OF NEWLY CRACKED ROADWAY INFRASTRUCTURE, THE REMOVAL AND REPLACEMENT OF EXISTING CRACKED ROADWAY INFRASTRUCTURE WHERE THE CRACKS HAVE BEEN ENLARGED DUE TO THE CONTRACTOR'S OPERATIONS, THE REMOVAL AND REPLACEMENT OF DEFORMED ROADWAY INFRASTRUCTURE. ALL SAWCUTS USED FOR THE REMOVAL OF THESE ITEMS SHALL BE PERPENDICULAR AND PARALLEL TO THE CENTERLINE CONTROLLING THAT ITEM, OR AT THE DIRECTION OF THE CITY'S CAPITAL PROJECTS INSPECTOR.
- ALL CAPITAL IMPROVEMENT PROJECTS SHALL MEET THE PROCEDURES AND STANDARDS FOR THE USE OF TEMPORARY/SECURITY FENCING AROUND THE PERIMETER OF CONSTRUCTION SITES, AS DEFINED IN THE CITY'S ZONING ORDINANCE, ARTICLE VI, SECTION 7.700.

ABBREVIATIONS

| | |
|-------|-------------------------------------|
| CL | CENTERLINE |
| COS | CITY OF SCOTTSDALE |
| CST | CONSTRUCTION |
| CMP | CORRUGATED METAL PIPE |
| DTL | DETAIL |
| DE | DRAINAGE EASEMENT |
| DIP | DUCTILE IRON PIPE |
| E | EASTING |
| ELEV | ELEVATION |
| ESMT | EASEMENT |
| EXIST | EXISTING |
| EXFL | EXISTING FLOWLINE |
| GB | GRADE BREAK |
| H | HEIGHT |
| HOA | HOME OWNERS ASSOCIATION |
| IE | INVERT ELEVATION |
| LT | LEFT |
| MAG | MARICOPA ASSOCIATION OF GOVERNMENTS |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| N | NORTHING |
| OHE | OVERHEAD ELECTRIC |
| PC | POINT OF CURVE |
| PCC | POINT OF COMPOUND CURVE |
| PRC | POINT OF REVERSE CURVE |
| PT | POINT OF TANGENCY |
| PVC | POLYVINYL CHLORINE |
| PL | PROPERTY LINE |
| Q100 | 100 YEAR PEAK DISCHARGE |
| RCBC | REINFORCED CONCRETE BOX CULVERT |
| RT | RIGHT |
| S | SLOPE |
| SD | STORM DRAIN |
| SHT | SHEET |
| SS | SANITARY SEWER LINE |
| STA | STATION |
| STD | STANDARD |
| TYP | TYPICAL |
| W | WATER LINE |
| WSEL | WATER SURFACE ELEVATION |

LEGEND

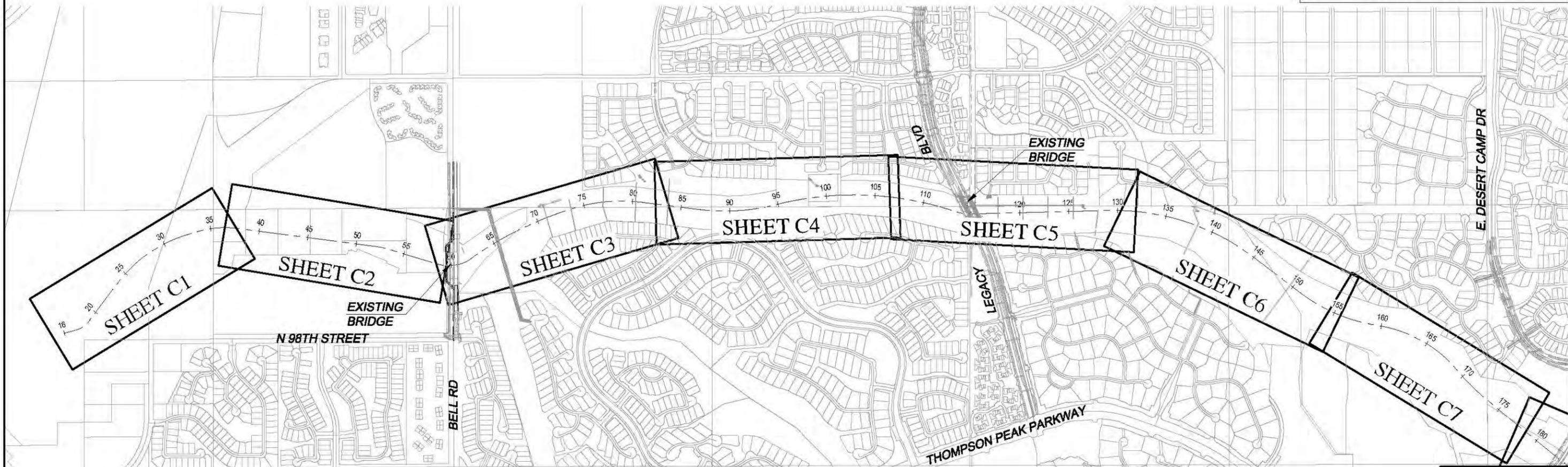
| | |
|--|---|
| | EXISTING SEWER |
| | EXISTING STORM DRAIN |
| | EXISTING WATER |
| | EXISTING UNDERGROUND ELECTRIC |
| | EXISTING GAS LINE |
| | EXISTING UNDERGROUND TELEPHONE CABLE |
| | EXISTING OVERHEAD ELECTRIC |
| | EXISTING GROUND ELEVATION |
| | EXISTING TRANSMISSION TOWER |
| | EXISTING UTILITY POLE |
| | EXISTING WIRE FENCE |
| | VW - WATER VALVE |
| | EXISTING OR NEW R/W LINE |
| | EXISTING PARCEL LINE |
| | EXISTING OR NEW EASEMENT |
| | PROPERTY LINE |
| | PROPOSED CONTOURS |
| | WATER SURFACE ELEVATION |
| | PROJECT CONTROL LINE & CHANNEL STATIONING |
| | PROPOSED WATER |
| | PROPOSED SEWER |

**EXHIBIT 5
CONCEPT DESIGN PLANS (15%)**

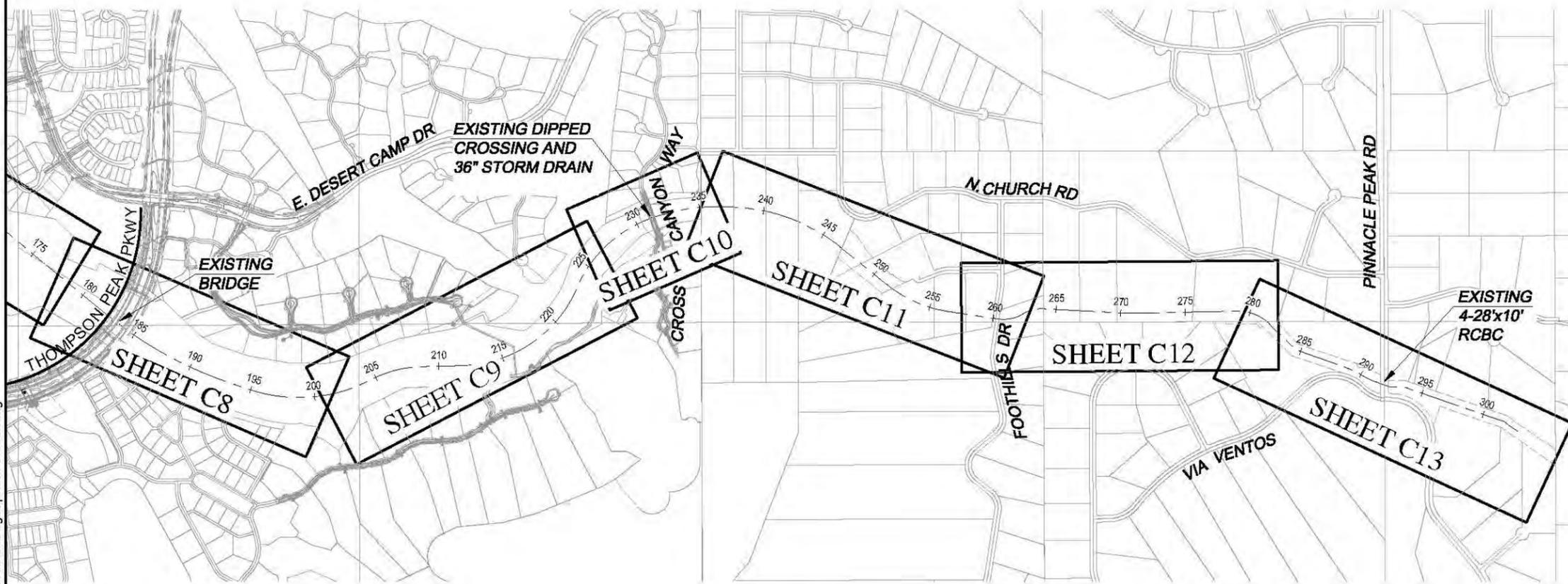
**PRELIMINARY NOT FOR
CONSTRUCTION OR RECORDING**



| | | |
|---------------|---|---|
| DATE | REVISION | BY |
| ENGINEER | 15% | PUBLIC WORKS |
| | PRELIMINARY NOT FOR CONSTRUCTION | CAPITAL PROJECT MANAGEMENT |
| | | 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251 |
| SHEET TITLE | GENERAL NOTES AND LEGEND | |
| PROJECT TITLE | REATA WASH FLOOD CONTROL IMPROVEMENT STUDY | |
| SCALE | DESIGNED | DATE |
| HORIZ. N/A | AS-BUILT | August 2016 |
| VERT. N/A | DRAWN | XX/XX |
| | | PROJECT NO. 14SQ011 |
| | | SHT. G2 |
| | | 2 OF 19 |

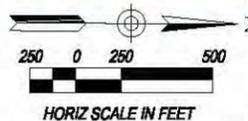


SEE BELOW
FOR CONTINUATION



**EXHIBIT 5
CONCEPT DESIGN PLANS (15%)**

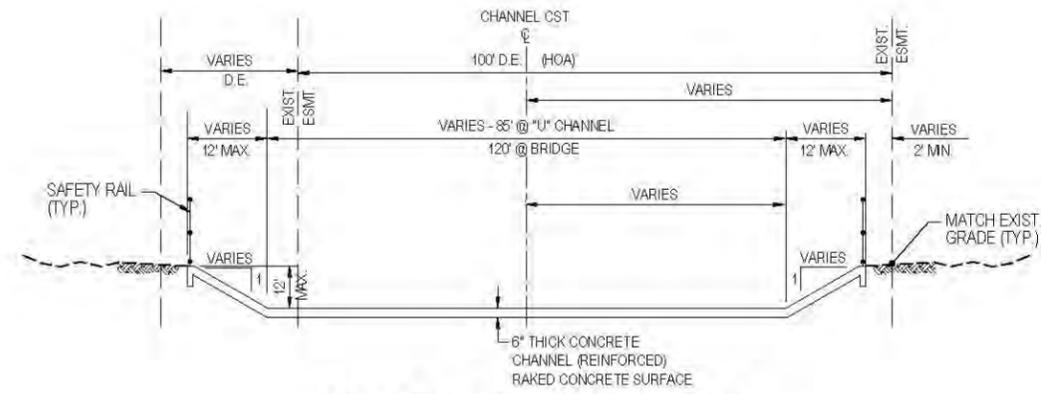
**PRELIMINARY NOT FOR
CONSTRUCTION OR RECORDING**



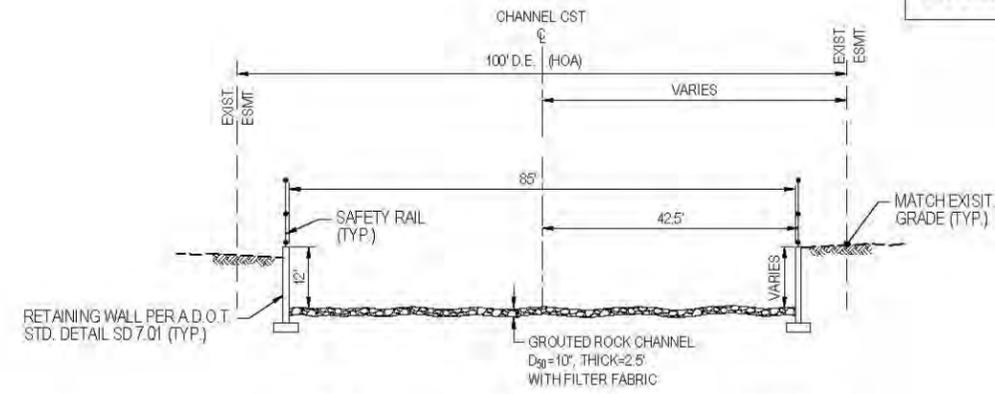
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|---|--|-------------|
| DATE | REVISION | BY |
| ENGINEER |  PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7417 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251 | |
| 15% PRELIMINARY NOT FOR CONSTRUCTION | | |
| KEY MAP SHEET | | |
| PROJECT TITLE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY | | |
| SCALE | DESIGNED | DATE |
| HORIZ. 1" = 500' | AS-BUILT | August 2016 |
| VERT. N/A | DRAWN | PROJECT NO. |
| | XX/XX | 14SQ011 |
| | | BHT. G3 |
| | | 3 OF 19 |

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XX-XX

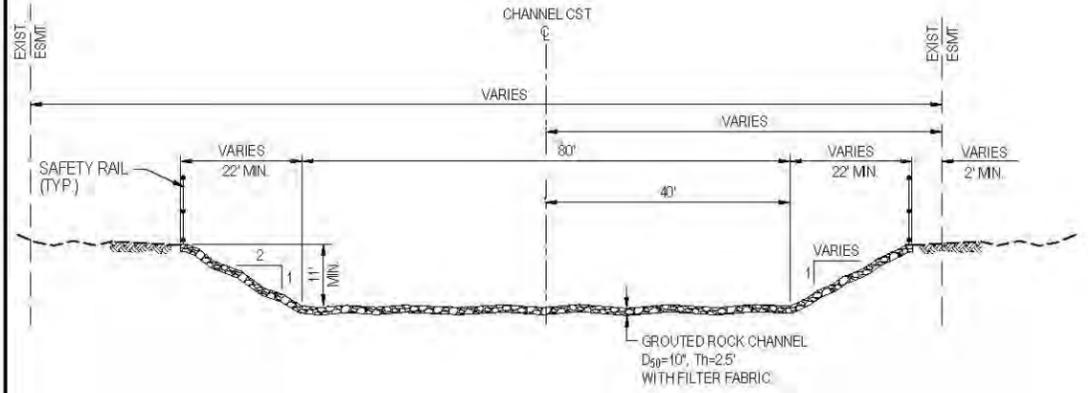


**CONCRETE CHANNEL TRANSITION
 STA 292+10 TO STA 293+00
 (NOT TO SCALE)**

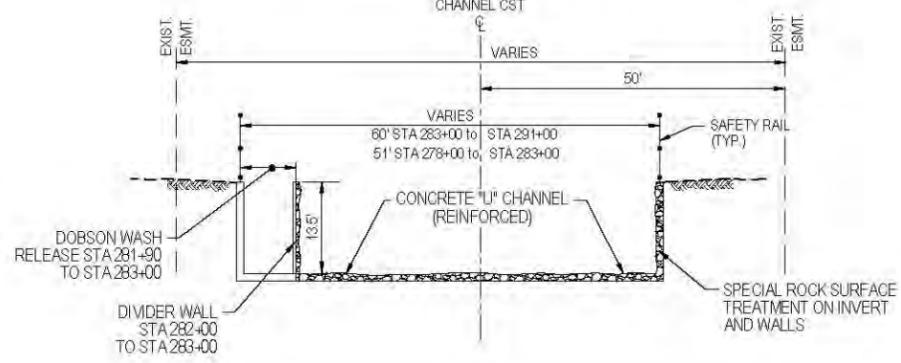


**"U" CHANNEL CONCRETE WALL & GROUTED
 ROCK INVERT
 STA 293+00 TO STA 299+00
 (NOT TO SCALE)**

**REATA WASH – REACH 1
 TYPICAL SECTIONS**

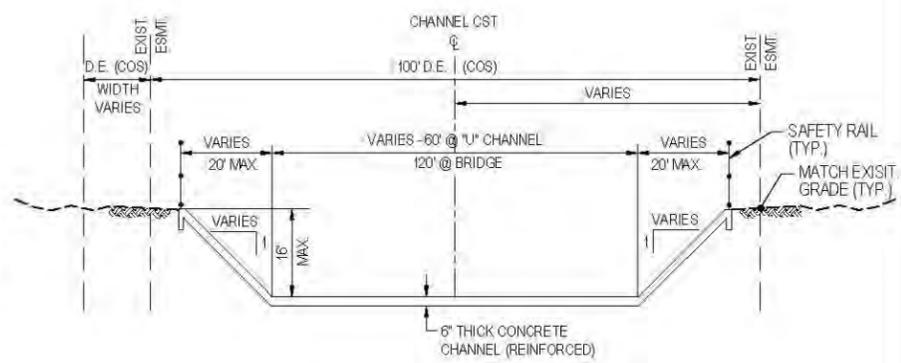


**GROUTED ROCK CHANNEL
 STA 231+00 TO STA 278+00
 (NOT TO SCALE)**



**CONCRETE "U" CHANNEL
 STA 278+00 TO STA 291+00
 (NOT TO SCALE)**

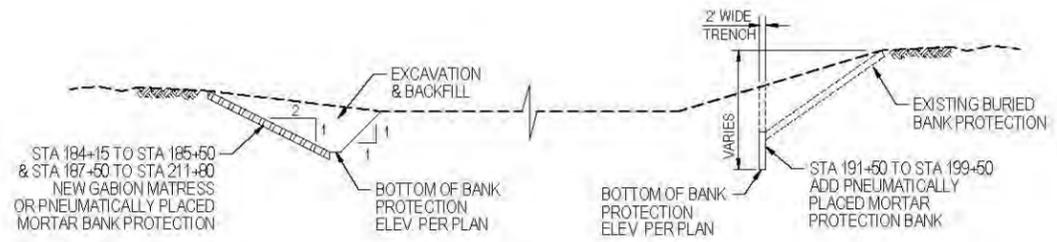
**REATA WASH – REACH 2
 TYPICAL SECTIONS**



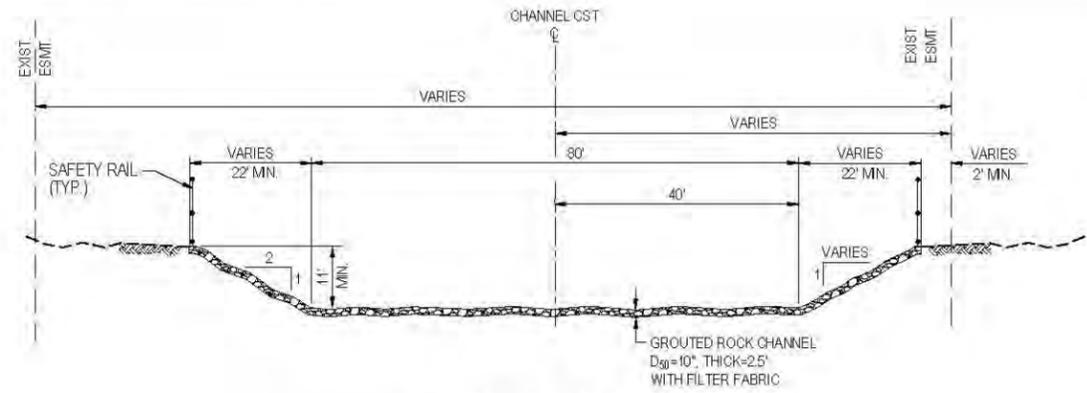
**CONCRETE CHANNEL TRANSITION
 STA 291+00 TO STA 291+65
 (NOT TO SCALE)**

**EXHIBIT 5
 CONCEPT DESIGN PLANS (15%)**

**PRELIMINARY NOT FOR
 CONSTRUCTION OR RECORDING**



**NATURAL CHANNEL WITH
 BURIED BANK PROTECTION
 STA 184+15 TO STA 211+80
 (NOT TO SCALE)**



**GROUTED ROCK CHANNEL
 STA 213+00 TO STA 231+00
 (NOT TO SCALE)**

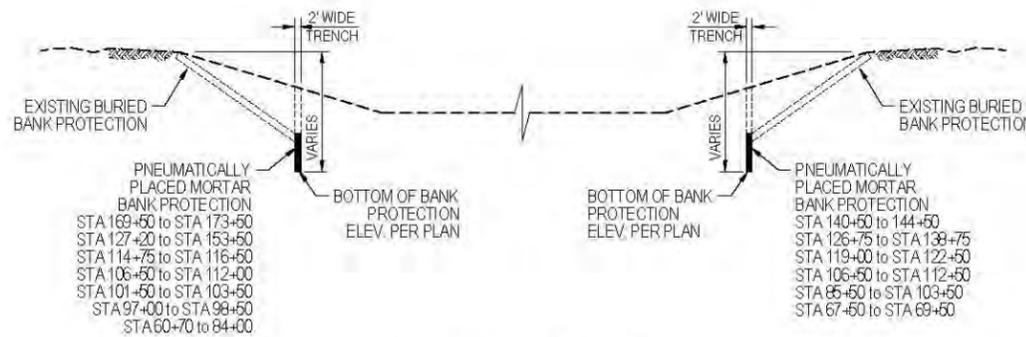
**REATA WASH – REACH 3
 TYPICAL SECTIONS**



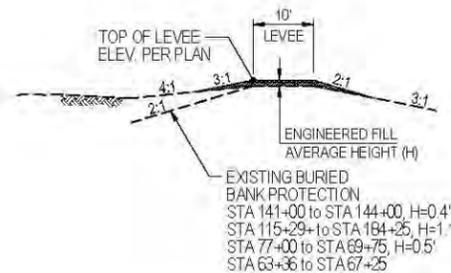
| | | |
|--|---|---|
| DATE | REVISION | BY |
| ENGINEER | 15% PRELIMINARY NOT FOR CONSTRUCTION | |
| | | PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 747 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85261 |
| SHEET TITLE: TYPICAL SECTIONS AND DETAILS | | |
| PROJECT TITLE: REATA WASH FLOOD CONTROL IMPROVEMENT STUDY | | |
| SCALE | DESIGNED | DATE |
| HORIZ: N/A | DRAWN | August 2016 |
| VERT: N/A | AS-BUILT | XX/XX |
| PROJECT NO. 14SQ011 | | SIT. G4 |
| 4 of 19 | | |

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XXX-XX

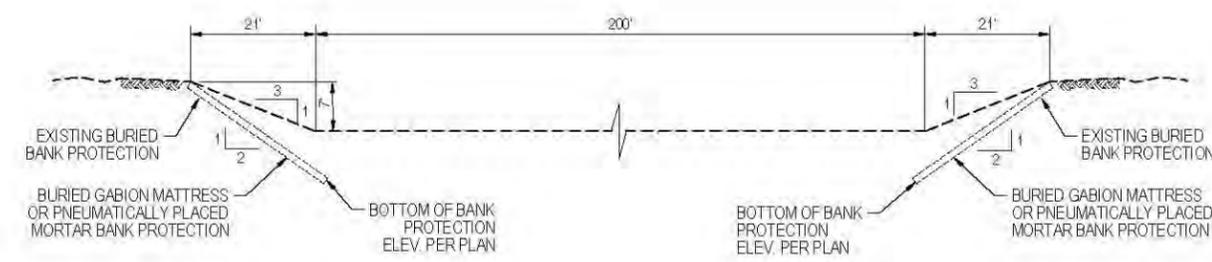


**NATURAL CHANNEL WITH BURIED BANK PROTECTION
 STA 60+70 TO STA 184+15**



**NATURAL CHANNEL LEVEE/ EMBANKMENT IMPROVEMENTS (WESTBANK)
 STA 63+36 TO STA 144+00**

**REATA WASH – REACH 4
 TYPICAL SECTIONS**



**EARTHEN TRAPEZOIDIAL CHANNEL WITH BURIED PROTECTION
 STA 23+00 TO STA 60+00**

**REATA WASH – REACH 5
 TYPICAL SECTIONS**

**EXHIBIT 5
 CONCEPT DESIGN PLANS (15%)**

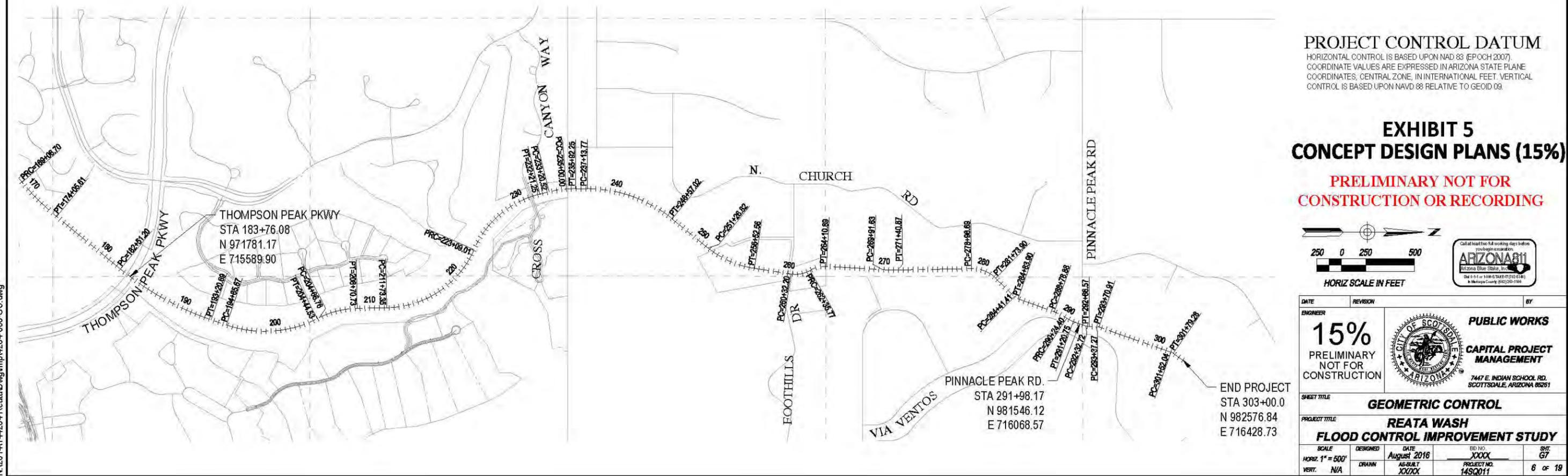
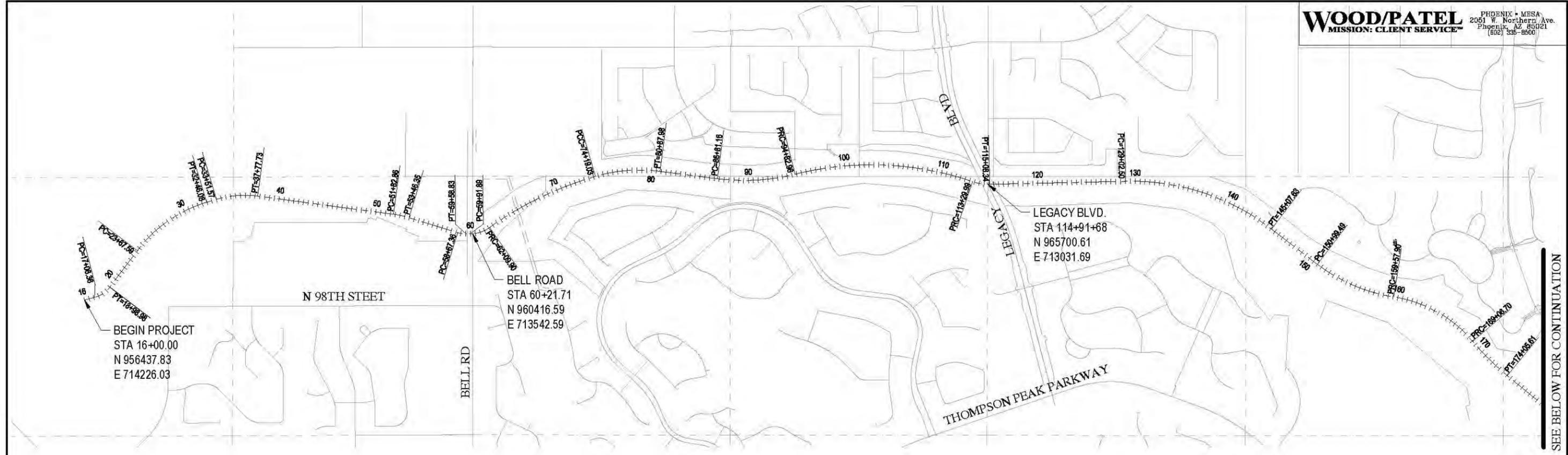
**PRELIMINARY NOT FOR
 CONSTRUCTION OR RECORDING**



| | | |
|--|---|-------------|
| DATE | REVISION | BY |
| ENGINEER | | |
| 15% | PUBLIC WORKS | |
| PRELIMINARY NOT FOR CONSTRUCTION | CAPITAL PROJECT MANAGEMENT | |
| | 747 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 86261 | |
| TYPICAL SECTIONS AND DETAILS | | |
| REATA WASH | | |
| FLOOD CONTROL IMPROVEMENT STUDY | | |
| SCALE | DESIGNED | DATE |
| HORIZ: N/A | DRAWN | August 2016 |
| VERT: N/A | AS-BUILT | XXXX |
| | PROJECT NO. | 14SQ011 |
| | SHEET NO. | 5 of 19 |

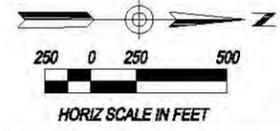
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XXX-XX



PROJECT CONTROL DATUM
 HORIZONTAL CONTROL IS BASED UPON NAD 83 (EPOCH 2007).
 COORDINATE VALUES ARE EXPRESSED IN ARIZONA STATE PLANE
 COORDINATES, CENTRAL ZONE, IN INTERNATIONAL FEET. VERTICAL
 CONTROL IS BASED UPON NAVD 88 RELATIVE TO GEOID 09.

EXHIBIT 5
CONCEPT DESIGN PLANS (15%)
PRELIMINARY NOT FOR
CONSTRUCTION OR RECORDING

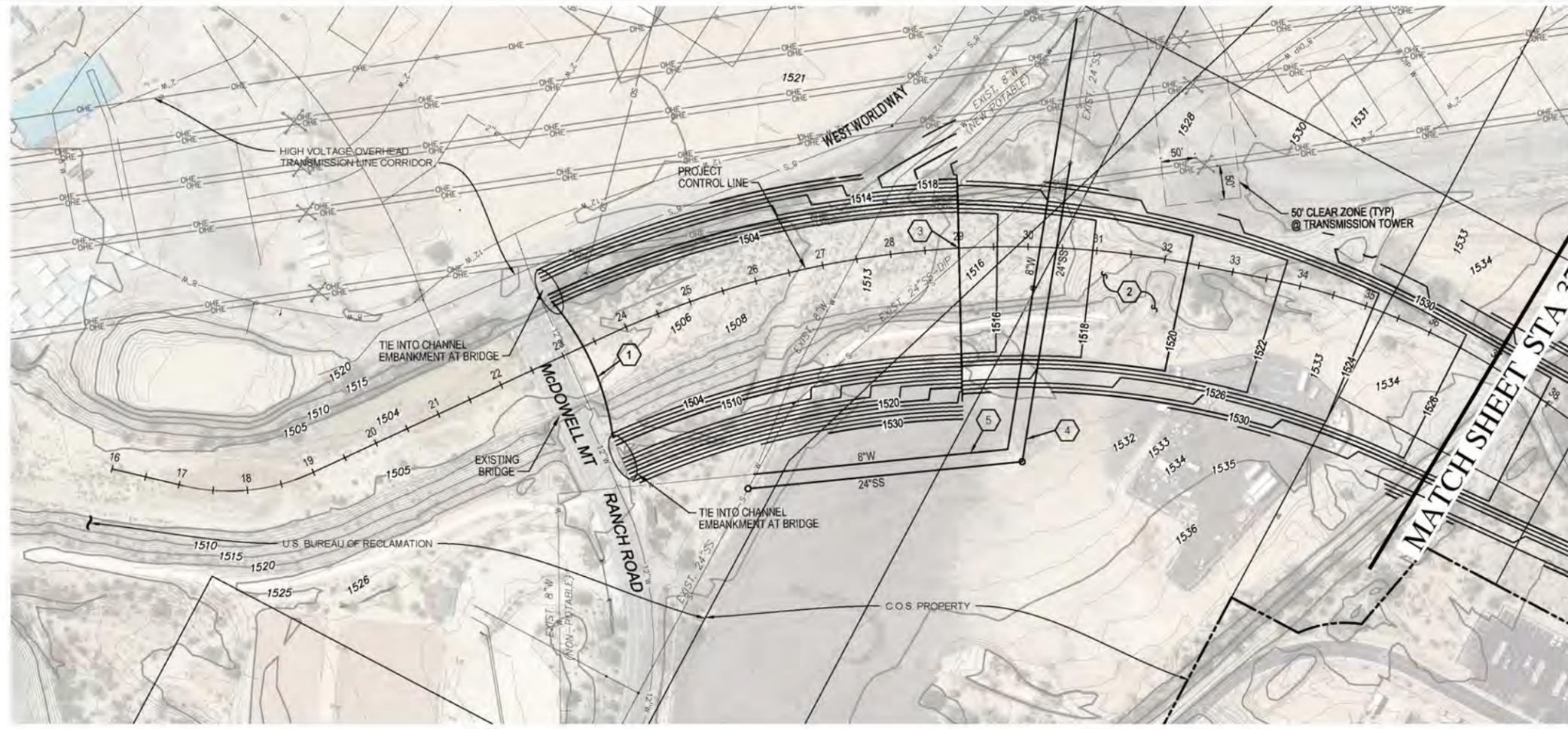
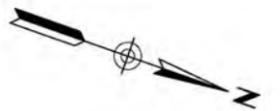


| | | |
|---|-------------|--|
| DATE | REVISION | BY |
| ENGINEER | | |
| 15% | | |
| PRELIMINARY NOT FOR CONSTRUCTION | | |
| | | PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85261 |
| SHEET TITLE | | |
| GEOMETRIC CONTROL | | |
| PROJECT TITLE | | |
| REATA WASH FLOOD CONTROL IMPROVEMENT STUDY | | |
| SCALE | DESIGNED | DATE |
| HORIZ. 1" = 500' | DRAWN | August 2016 |
| VERT. N/A | AS-BUILT | XX/XX |
| | PROJECT NO. | SD NO. |
| | 14SQ011 | XXXX |
| | SHT. | 6 OF 19 |

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SEE BELOW FOR CONTINUATION

XX-XX



- GRADING NOTES**
- ① PROPOSED CONCRETE SEDIMENT BASIN SILL PARAPET WALL (4' HIGH)
 - ② PROPOSED INCISED EARTHEN TRAPEZOIDAL CHANNEL WITH BURIED BANK PROTECTION. SEE TYPICAL SECTION FOR DETAILS.
 - ③ PROPOSED CONCRETE DROP STRUCTURE.
 - ④ PROPOSED ENCASED SEWERLINE RELOCATION.
 - ⑤ PROPOSED ENCASED WATER LINE RELOCATION.
 - ⑥ SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.

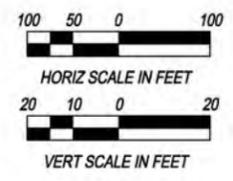
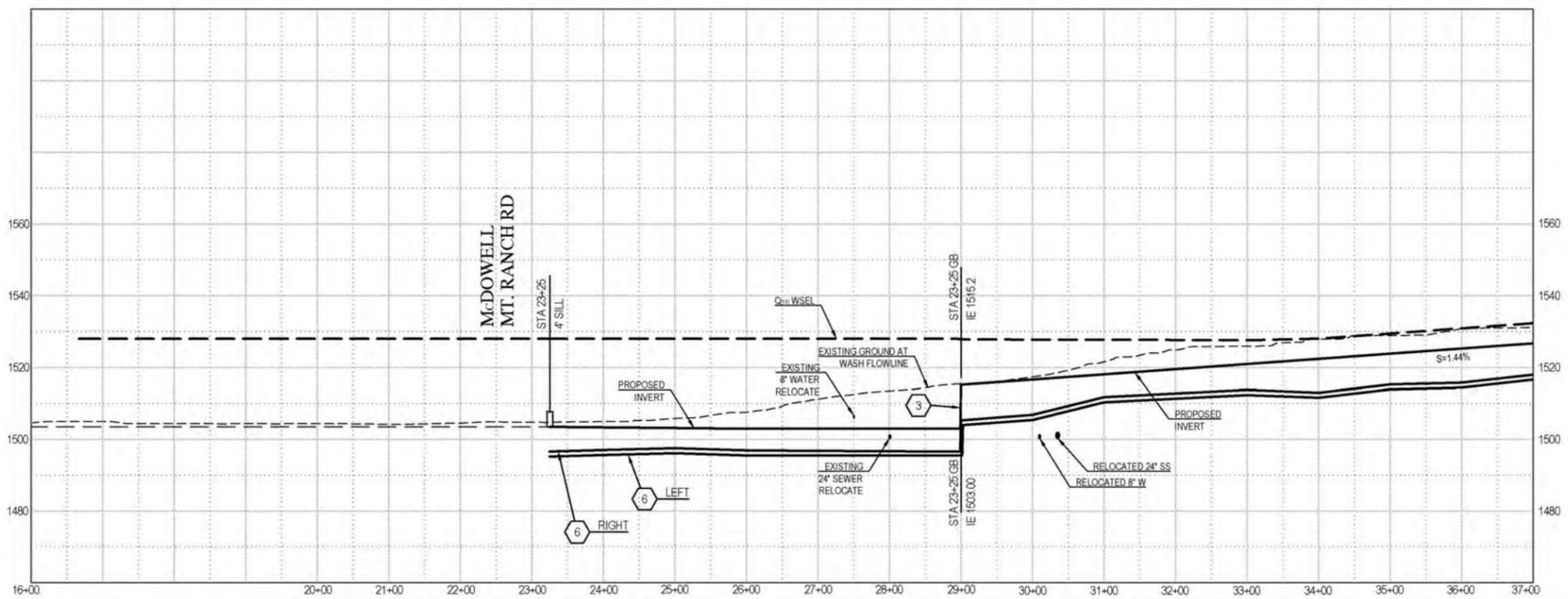


EXHIBIT 5
CONCEPT DESIGN PLANS (15%)

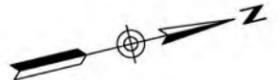
PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING



| DATE | REVISION | BY |
|---|-------------|-------------|
| ENGINEER 15% PRELIMINARY NOT FOR CONSTRUCTION | | |
| CITY OF SCOTTSDALE PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251 | | |
| SHEET TITLE CHANNEL PLAN & PROFILE SHEET | | |
| PROJECT TITLE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY | | |
| SCALE | DATE | BID NO. |
| HORIZ 1" = 100' | August 2016 | XXXX |
| VERT. 1" = 20' | AS-BUILT | PROJECT NO. |
| | XX/XX | 14SQ011 |
| | | SFT. C1 |
| | | 7 OF 19 |

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XXX-XX



- GRADING NOTES**
- ② PROPOSED INCISED EARTHEN TRAPEZOIDAL CHANNEL WITH BURIED BANK PROTECTION. SEE TYPICAL SECTION FOR DETAILS.
 - ⑥ SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION

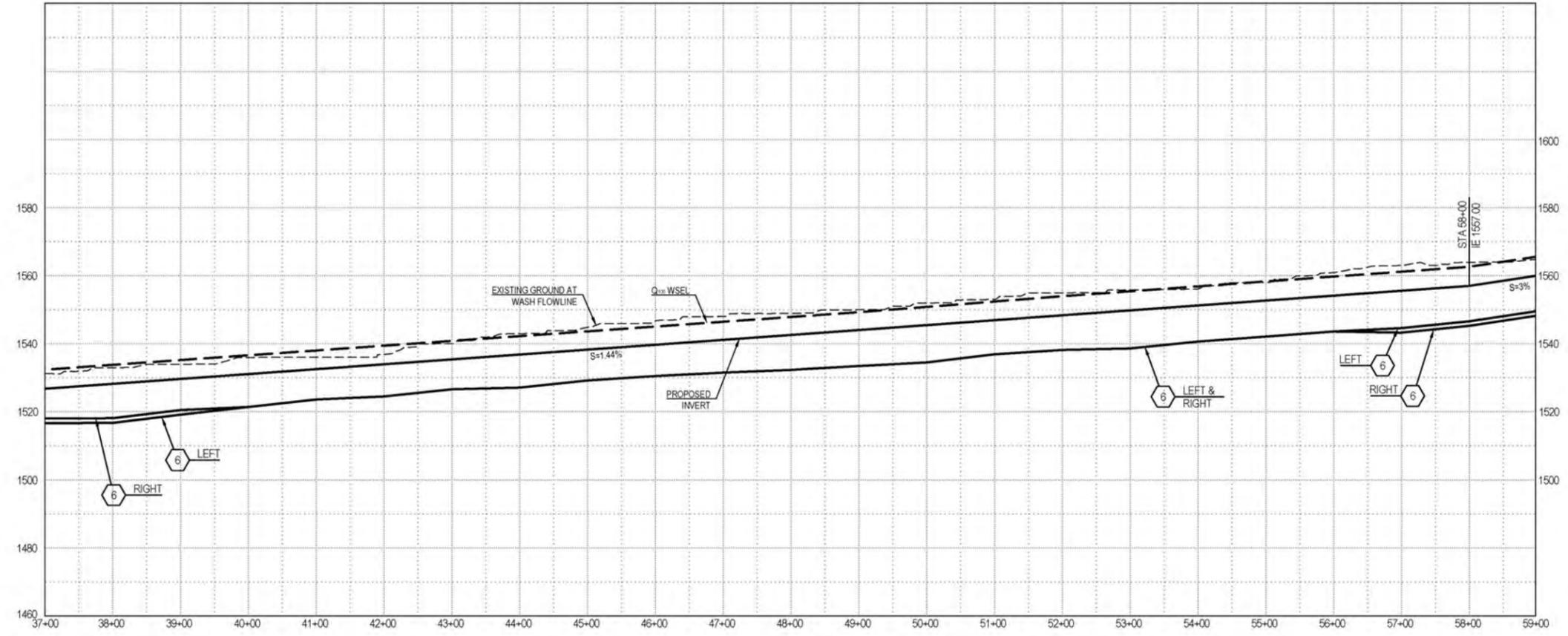
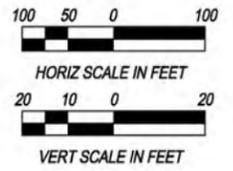


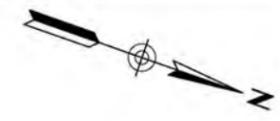
EXHIBIT 5
CONCEPT DESIGN PLANS (15%)
PRELIMINARY NOT FOR
CONSTRUCTION OR RECORDING



| | | |
|---|----------|---|
| DATE | REVISION | BY |
| ENGINEER | | |
| 15% | | PUBLIC WORKS CAPITAL PROJECT MANAGEMENT <small>7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</small> |
| PRELIMINARY NOT FOR CONSTRUCTION | | |
| SHEET TITLE | | |
| CHANNEL PLAN & PROFILE SHEET | | |
| PROJECT TITLE | | |
| REATA WASH FLOOD CONTROL IMPROVEMENT STUDY | | |
| SCALE | DESIGNED | DATE |
| HORIZ. 1" = 100' | AS-BUILT | August 2016 |
| VERT. 1" = 20' | DRAWN | XX/XX |
| PROJECT NO. | | SHEET NO. |
| 14SQ011 | | 8 OF 19 |

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XXX-XX



- GRADING NOTES**
- ② PROPOSED INCISED EARTHEN TRAPEZOIDAL CHANNEL WITH BURIED BANK PROTECTION. SEE TYPICAL SECTION FOR DETAILS.
 - ⑤ PROPOSED ENCASED WATER LINE RELOCATION.
 - ⑥ SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.
 - ⑦ PROPOSED BURIED BANK PROTECTION IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
 - ⑧ PROPOSED LEVEE IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
 - ⑨ PROPOSED LOCAL CHANNEL GRADING.
 - ⑩ PROPOSED TOP OF LEVEE / EMBANKMENT.

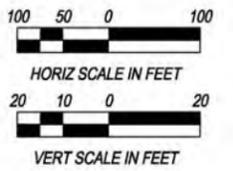


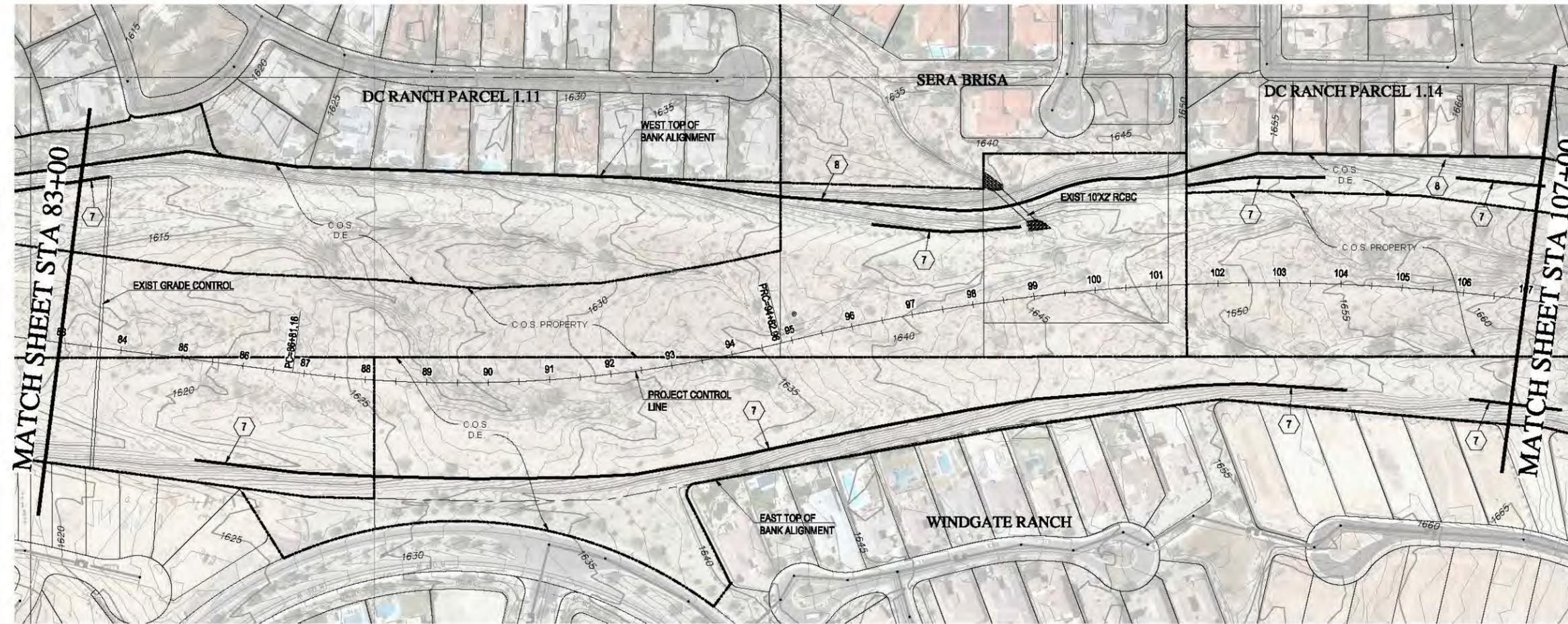
EXHIBIT 5
CONCEPT DESIGN PLANS (15%)
PRELIMINARY NOT FOR
CONSTRUCTION OR RECORDING



| DATE | REVISION | BY |
|--|-----------------------|---|
| <p>ENGINEER: 15% PRELIMINARY NOT FOR CONSTRUCTION</p> | | |
| <p>CITY OF SCOTTSDALE PUBLIC WORKS CAPITAL PROJECT MANAGEMENT</p> | | <p>7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</p> |
| <p>SHEET TITLE: CHANNEL PLAN & PROFILE SHEET</p> | | |
| <p>PROJECT TITLE: REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</p> | | |
| SCALE: HORIZ 1" = 100' | DESIGNED: August 2016 | DATE: XXXX |
| VERT. 1" = 20' | DRAWN: XX/XX | PROJECT NO: 14SQ011 |
| | | SHT: C3 |
| | | 9 OF 19 |

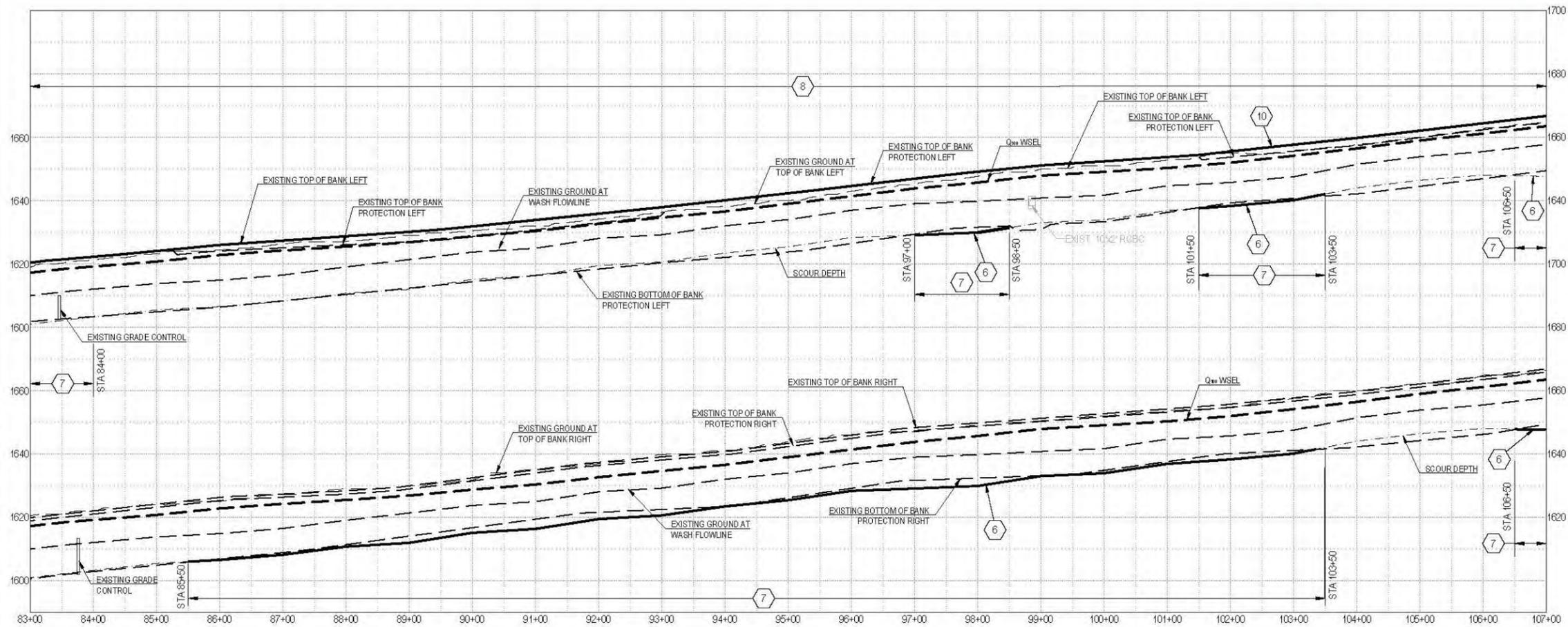
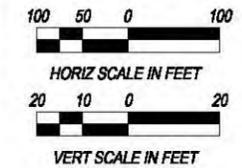
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XXX-XX



GRADING NOTES

- ⑥ SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.
- ⑦ PROPOSED BURIED BANK PROTECTION IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
- ⑧ PROPOSED LEVEE IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
- ⑩ PROPOSED TOP OF LEVEE / EMBANKMENT.



**EXHIBIT 5
 CONCEPT DESIGN PLANS (15%)**

**PRELIMINARY NOT FOR
 CONSTRUCTION OR RECORDING**



| DATE | REVISION | BY |
|---|-------------------------------|---|
| ENGINEER | | |
| 15% | | |
| PRELIMINARY NOT FOR CONSTRUCTION | | |
|  | | PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251 |
| SHEET TITLE CHANNEL PLAN & PROFILE SHEET | | |
| PROJECT TITLE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY | | |
| SCALE HORIZ. 1" = 80' VERT. 1" = 20' | DESIGNED AS-BUILT XX/XX | DATE August 2016 PROJECT NO. 14SQ011 |
| | | SHT. C4 10 OF 19 |

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XX-XX



- GRADING NOTES**
- ⑥ SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION
 - ⑦ PROPOSED BURIED BANK PROTECTION IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
 - ⑧ PROPOSED LEVEE IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
 - ⑩ PROPOSED TOP OF LEVEE / EMBANKMENT.

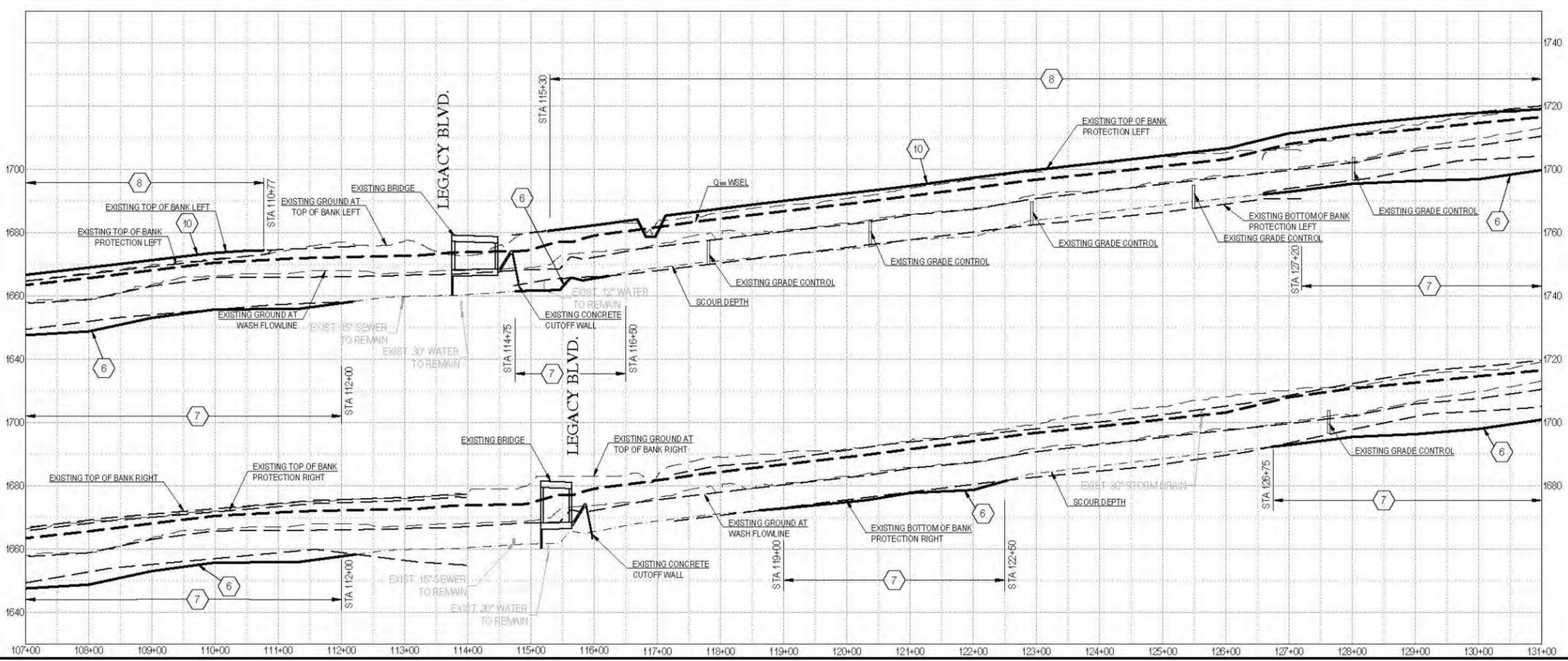
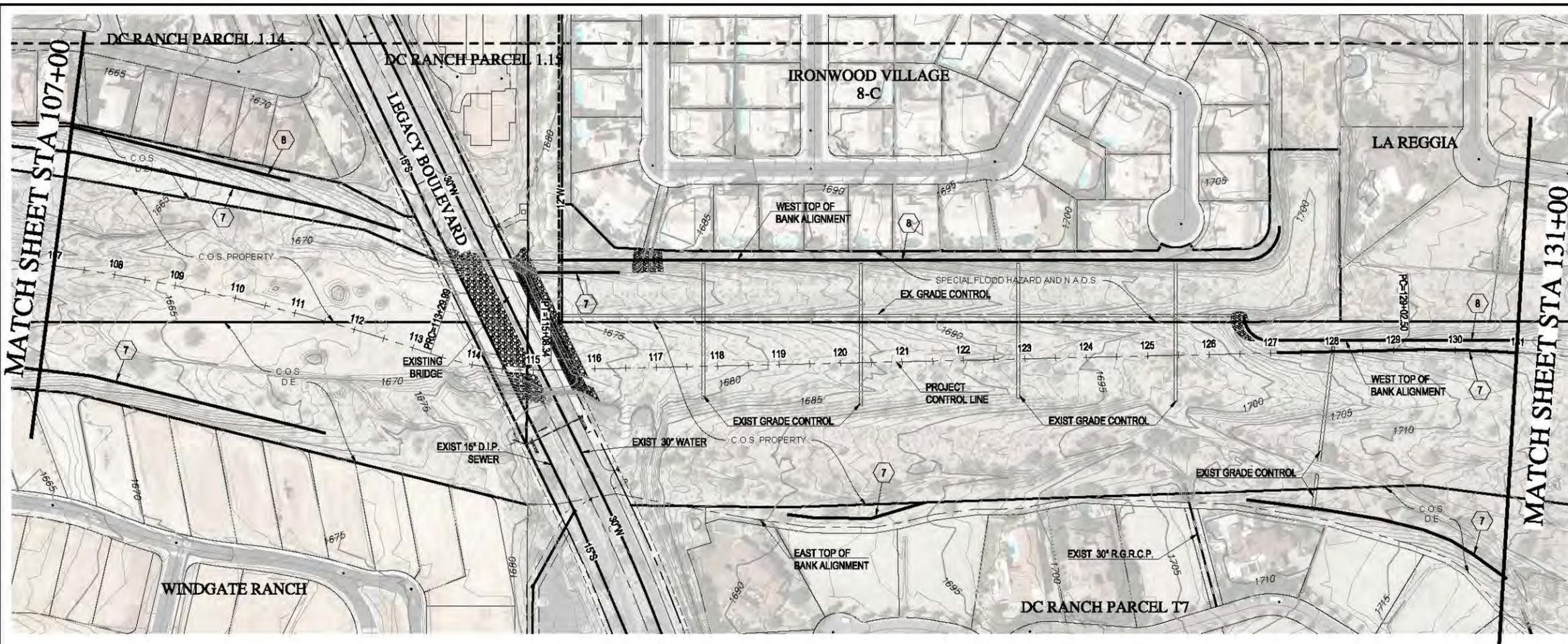
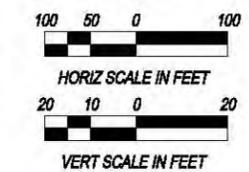


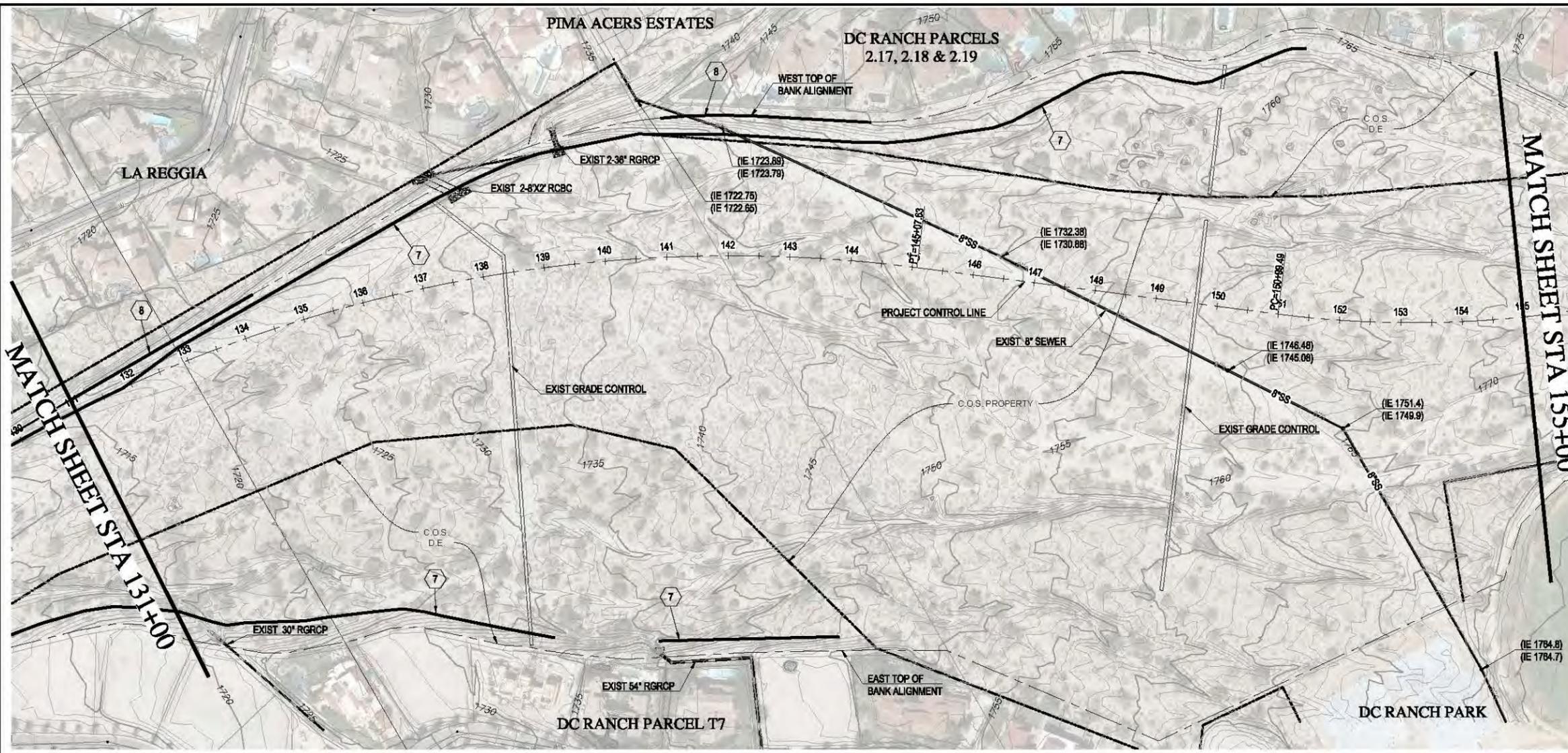
EXHIBIT 5
CONCEPT DESIGN PLANS (15%)
PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING



| | | |
|--|--|-------------|
| DATE | REVISION | BY |
| ENGINEER | | |
| 15% | PUBLIC WORKS | |
| PRELIMINARY NOT FOR CONSTRUCTION | CAPITAL PROJECT MANAGEMENT | |
| | 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251 | |
| SHEET TITLE CHANNEL PLAN & PROFILE SHEET | | |
| PROJECT TITLE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY | | |
| SCALE | DESIGNED | DATE |
| HORIZ. 1" = 100' | AS-BUILT | August 2016 |
| VERT. 1" = 20' | DRAWN | XX/XX |
| | | PROJECT NO. |
| | | 14SQ011 |
| | | SHT. CS |
| | | 11 OF 19 |

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XXX-XX



- GRADING NOTES**
- 6 SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.
 - 7 PROPOSED BURIED BANK PROTECTION IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
 - 8 PROPOSED LEVEE IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
 - 10 PROPOSED TOP OF LEVEE / EMBANKMENT.

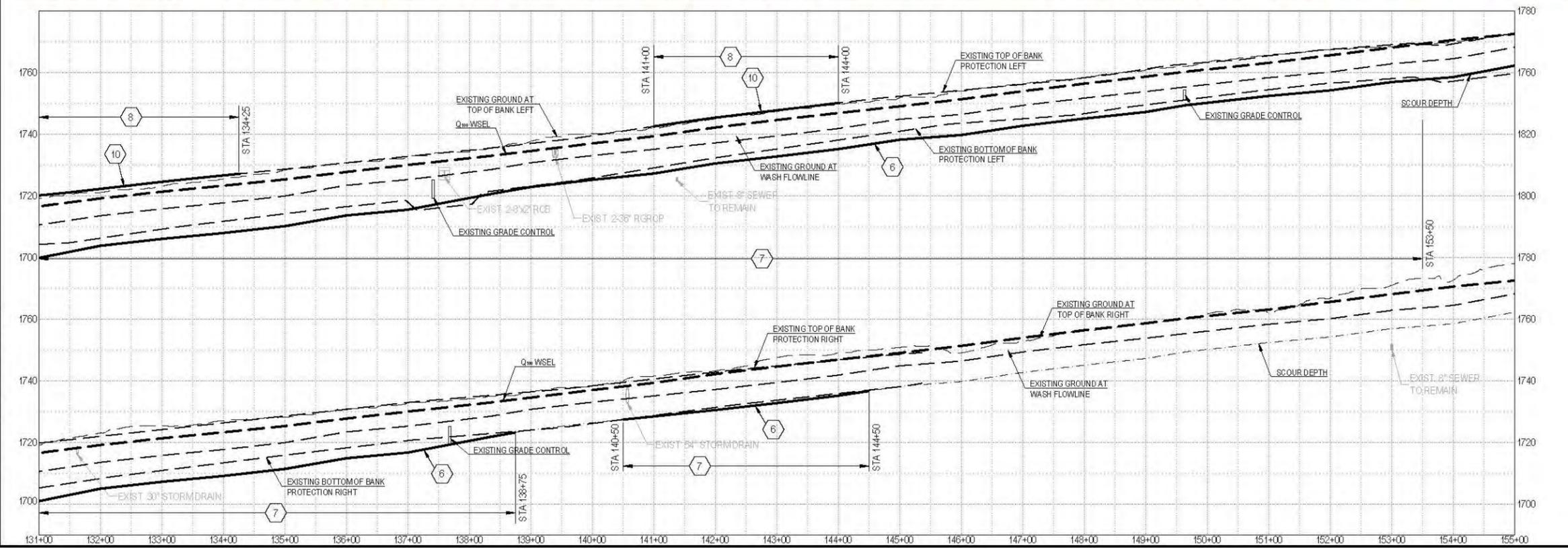
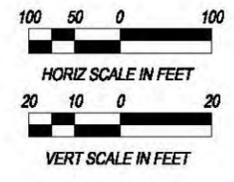
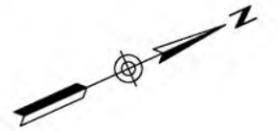


EXHIBIT 5
CONCEPT DESIGN PLANS (15%)
PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING



| DATE | REVISION | BY |
|---|----------|---------------|
| <p>15% PRELIMINARY NOT FOR CONSTRUCTION</p> | | |
| <p>CITY OF SCOTTSDALE PUBLIC WORKS CAPITAL PROJECT MANAGEMENT</p> <p>7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 86221</p> | | |
| <p>SHEET TITLE: CHANNEL PLAN & PROFILE SHEET</p> | | |
| <p>PROJECT TITLE: REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</p> | | |
| SCALE | DESIGNED | DATE |
| HORIZ. 1" = 100' | AS-BUILT | August 2016 |
| VERT. 1" = 20' | DRAWN | XX/XX |
| PROJECT NO. 1450011 | | SHT. 12 OF 19 |

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GRADING NOTES

- 6 SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.
- 7 PROPOSED BURIED BANK PROTECTION IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.

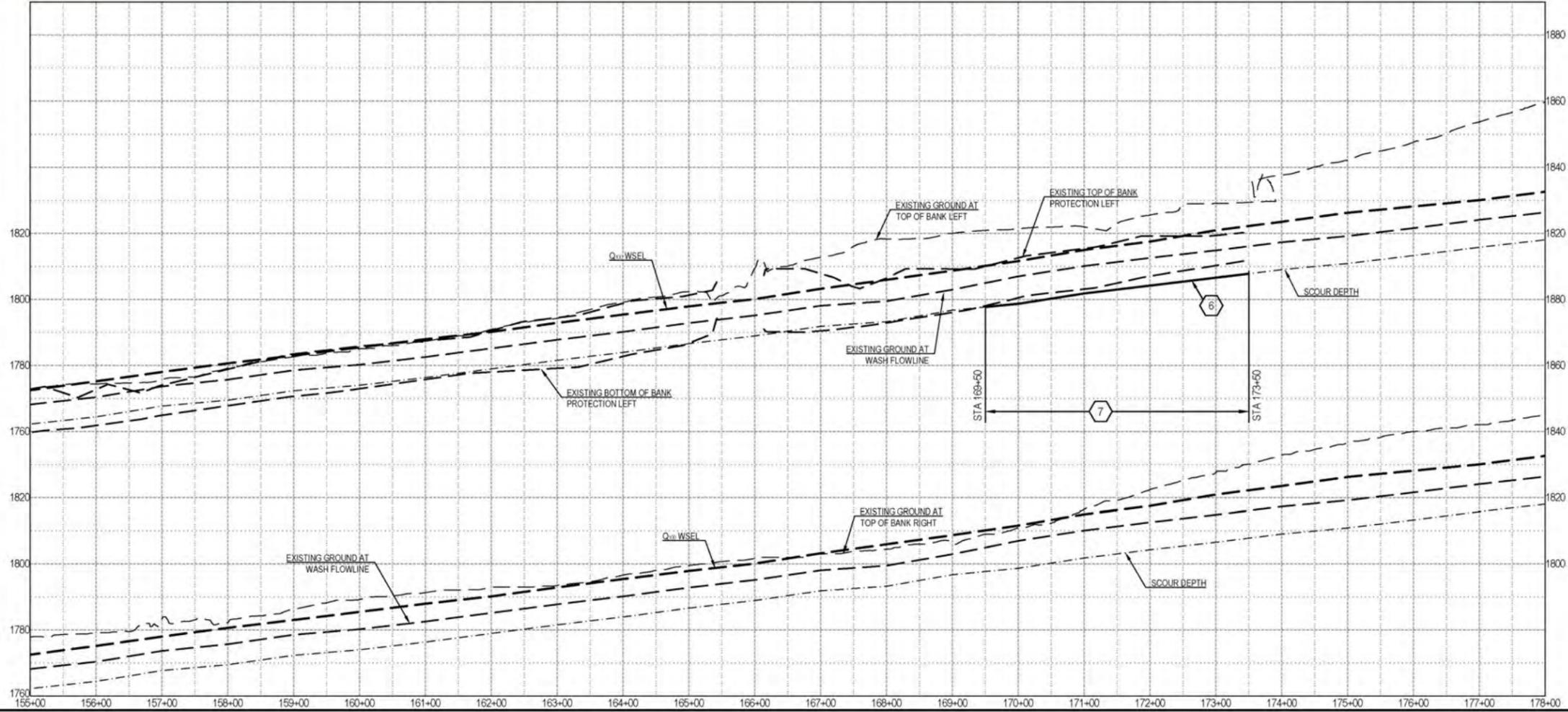
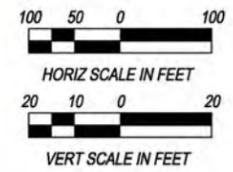


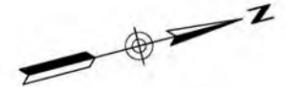
EXHIBIT 5
CONCEPT DESIGN PLANS (15%)
PRELIMINARY NOT FOR
CONSTRUCTION OR RECORDING



| | | |
|---|--|-------------|
| DATE | REVISION | BY |
| ENGINEER | PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251 | |
| 15% PRELIMINARY NOT FOR CONSTRUCTION | | |
| SHEET TITLE | | |
| CHANNEL PLAN & PROFILE SHEET | | |
| PROJECT TITLE | | |
| REATA WASH FLOOD CONTROL IMPROVEMENT STUDY | | |
| SCALE | DESIGNED | DATE |
| HORIZ 1" = 100' | AS-BUILT | August 2016 |
| VERT. 1" = 20' | DRAWN | XX/XX |
| PROJECT NO. | | SHT. |
| 14SQ011 | | C7 |
| | | 13 OF 19 |

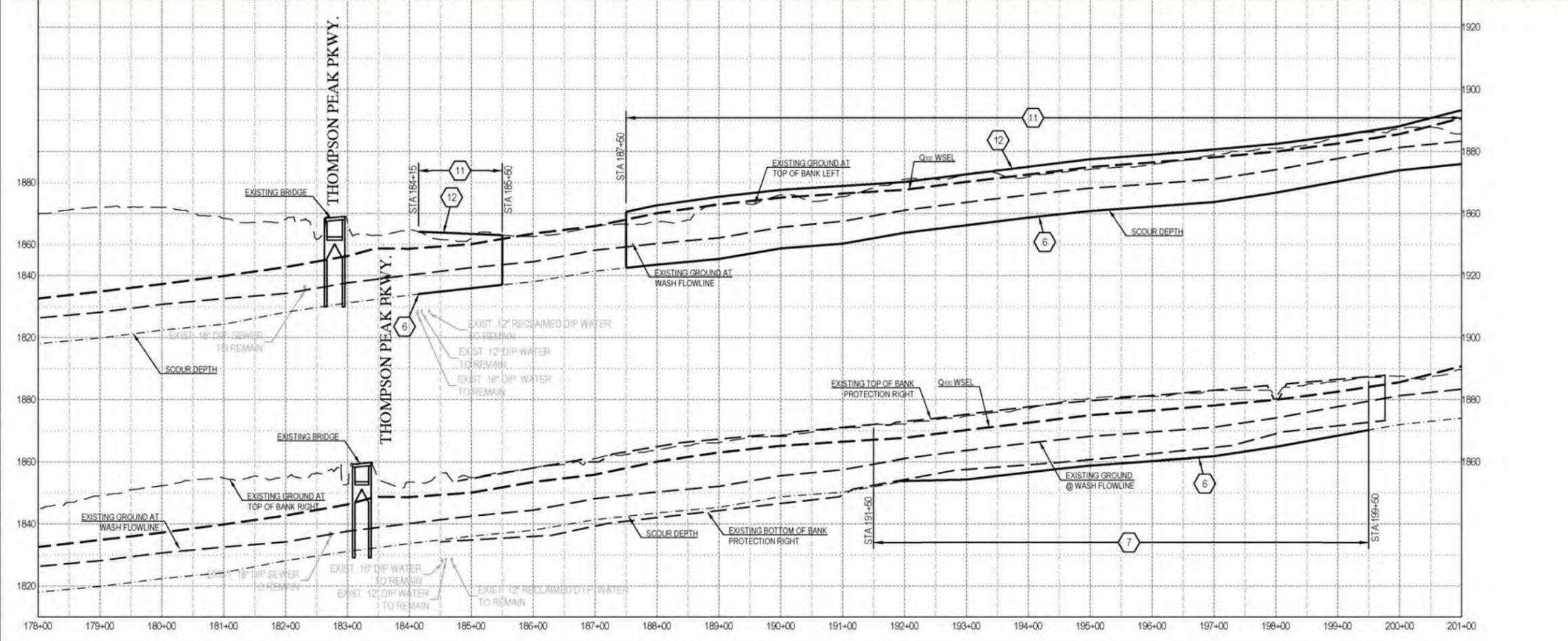
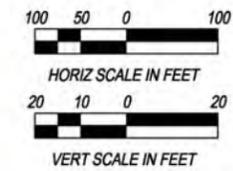
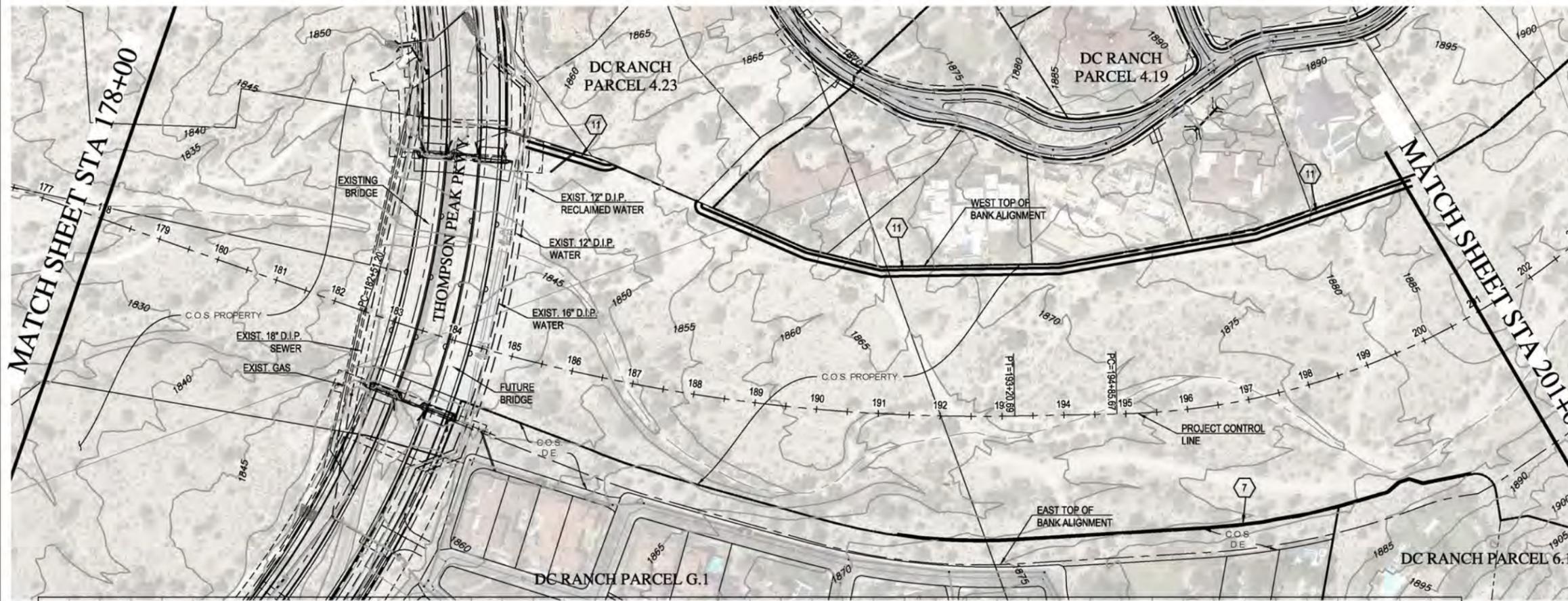
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XXX-XX



GRADING NOTES

- 6 SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.
- 7 PROPOSED BURIED BANK PROTECTION IMPROVEMENTS. SEE TYPICAL SECTION SHEET FOR DETAILS.
- 11 PROPOSED BURIED BANK PROTECTION. SEE TYPICAL SECTION SHEETS FOR DETAILS.
- 12 PROPOSED TOP OF BANK PROTECTION. SEE TYPICAL SECTION SHEETS FOR DETAILS.



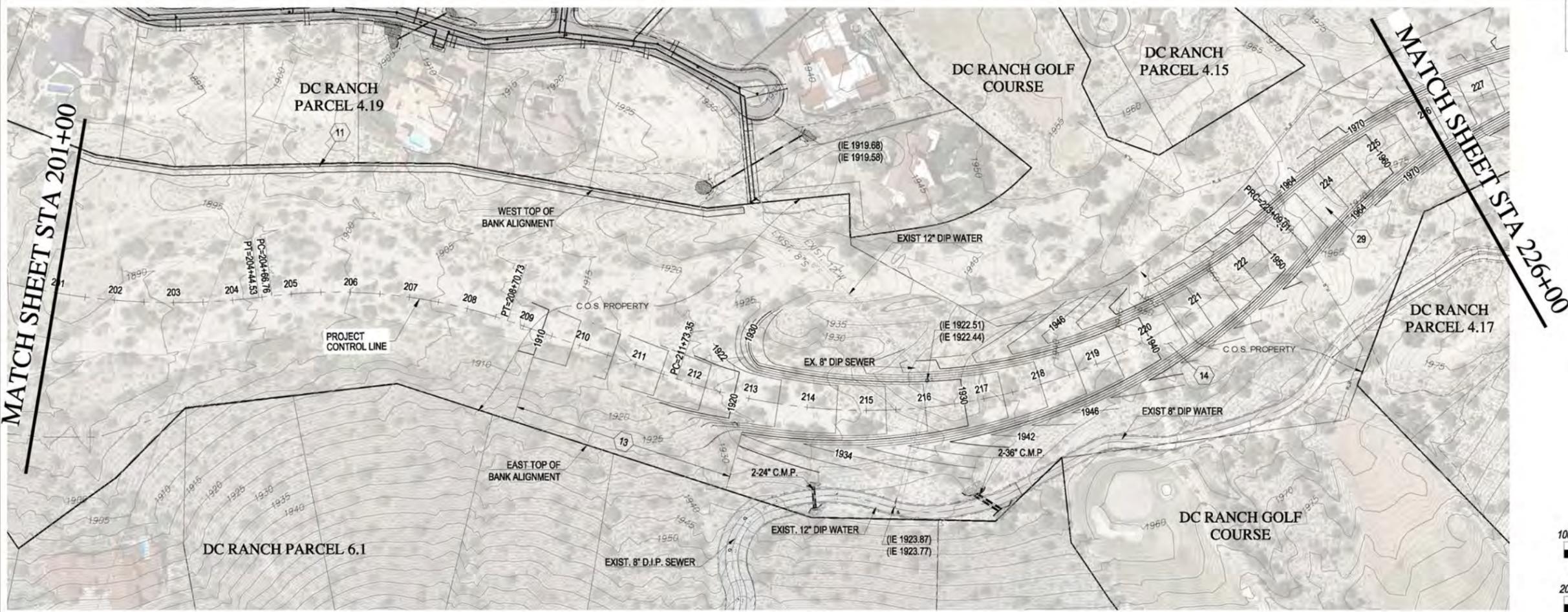
**EXHIBIT 5
 CONCEPT DESIGN PLANS (15%)**

**PRELIMINARY NOT FOR
 CONSTRUCTION OR RECORDING**



| DATE | REVISION | BY |
|---|----------|-------------|
| ENGINEER 15% PRELIMINARY NOT FOR CONSTRUCTION | | |
| PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251 | | |
| SHEET TITLE CHANNEL PLAN & PROFILE SHEET | | |
| PROJECT TITLE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY | | |
| SCALE | DESIGNED | DATE |
| HORIZ 1" = 100' | DRAWN | August 2016 |
| VERT. 1" = 20' | AS-BUILT | XX/XX |
| SHEET NO. | | SFT. |
| 14SQ011 | | C8 |
| PROJECT NO. | | 14 of 19 |
| 14SQ011 | | |

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- GRADING NOTES**
- 6 SCOUR DEPTH AND BOTTOM OF PROPOSED BANK PROTECTION.
 - 11 PROPOSED BURIED BANK PROTECTION. SEE TYPICAL SECTION SHEETS FOR DETAILS.
 - 12 PROPOSED TOP OF BANK PROTECTION. SEE TYPICAL SECTION SHEETS FOR DETAILS.
 - 13 STA 209+00 TO STA 213+00. PROPOSED TRANSITION GRADING FROM EXISTING CHANNEL TO GROUTED ROCK CHANNEL.
 - 14 PROPOSED GROUTED ROCK CHANNEL. SEE TYPICAL SECTION SHEETS FOR DETAILS.
 - 29 PROPOSED GOLF CART CROSSING.

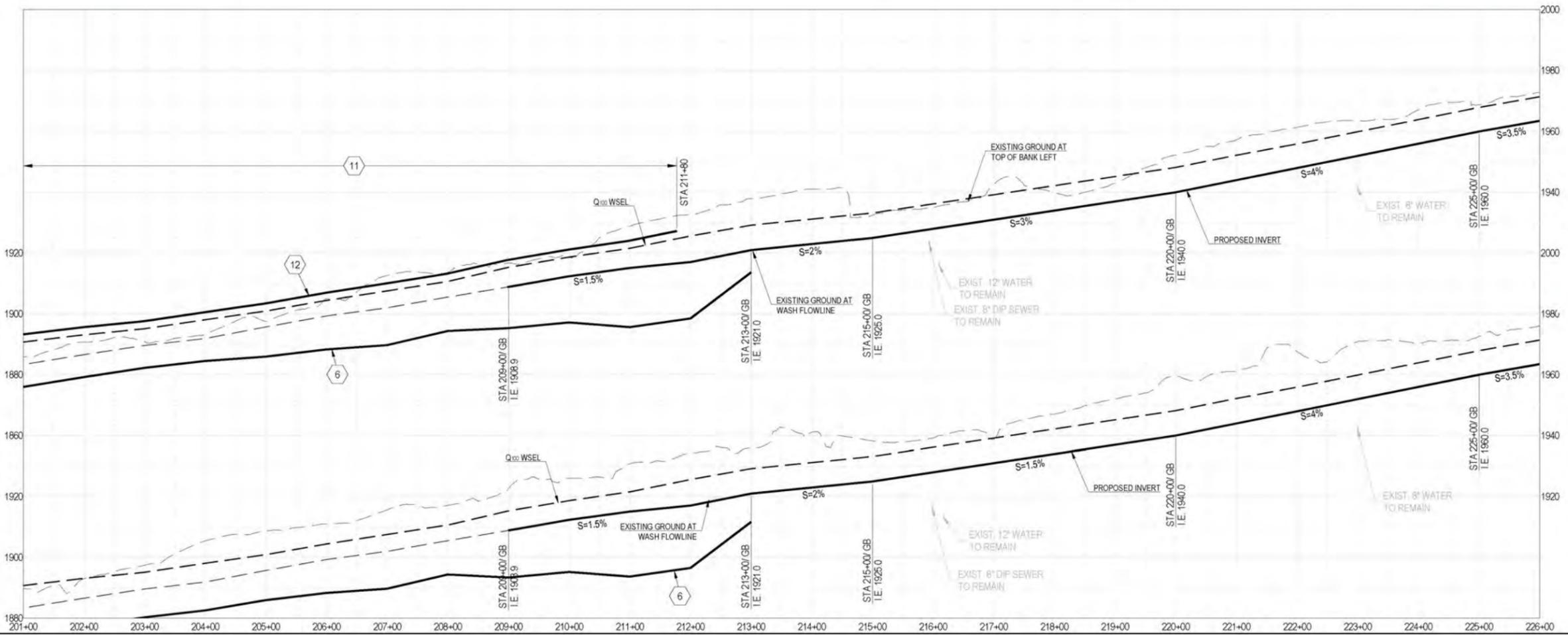
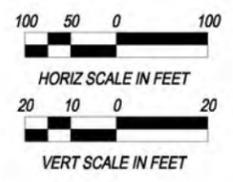


EXHIBIT 5
CONCEPT DESIGN PLANS (15%)

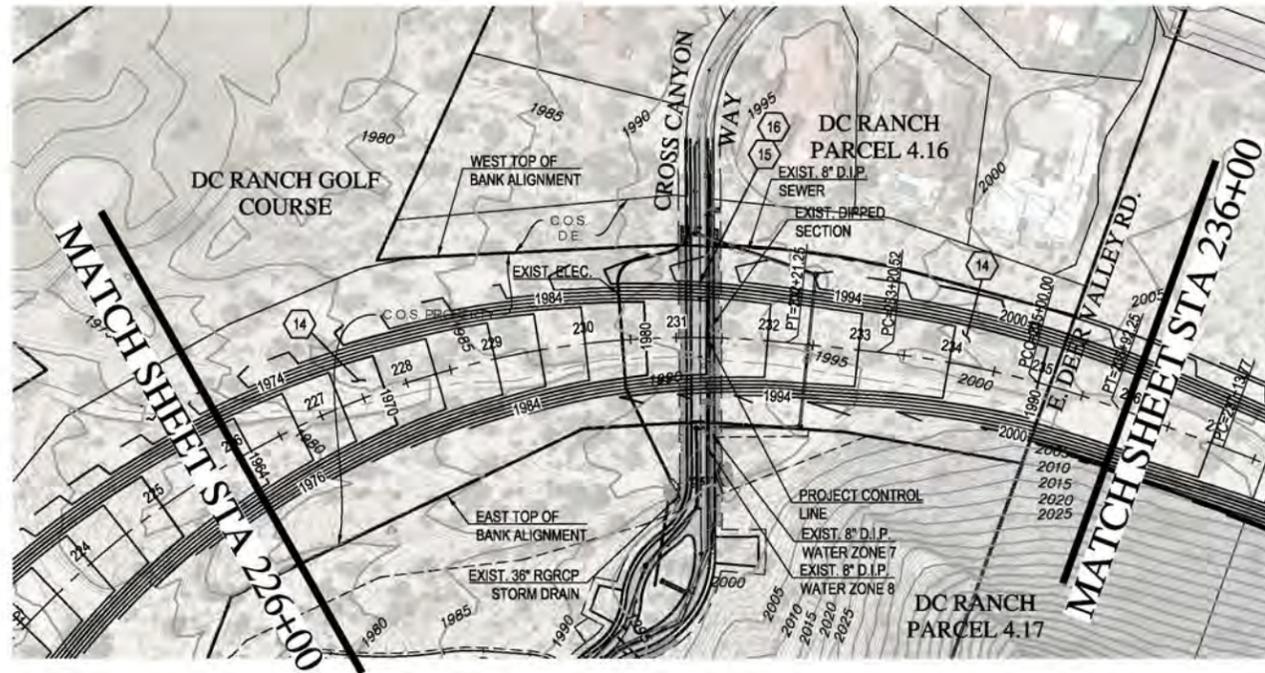
PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING



| DATE | REVISION | BY |
|--|-------------------------|-----------------------------------|
| <p>ENGINEER 15% PRELIMINARY NOT FOR CONSTRUCTION</p> | | |
| <p>CITY OF SCOTTSDALE PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</p> | | |
| <p>SHEET TITLE CHANNEL PLAN & PROFILE SHEET</p> | | |
| <p>PROJECT TITLE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</p> | | |
| SCALE HORIZ 1" = 100' VERT. 1" = 20' | DESIGNED August 2016 | DATE XXXX AS-BUILT XX/XX |
| <p>BIO. NO. XXXX</p> | | <p>SHT. C9</p> |
| <p>PROJECT NO. 14SQ011</p> | | <p>15 OF 19</p> |

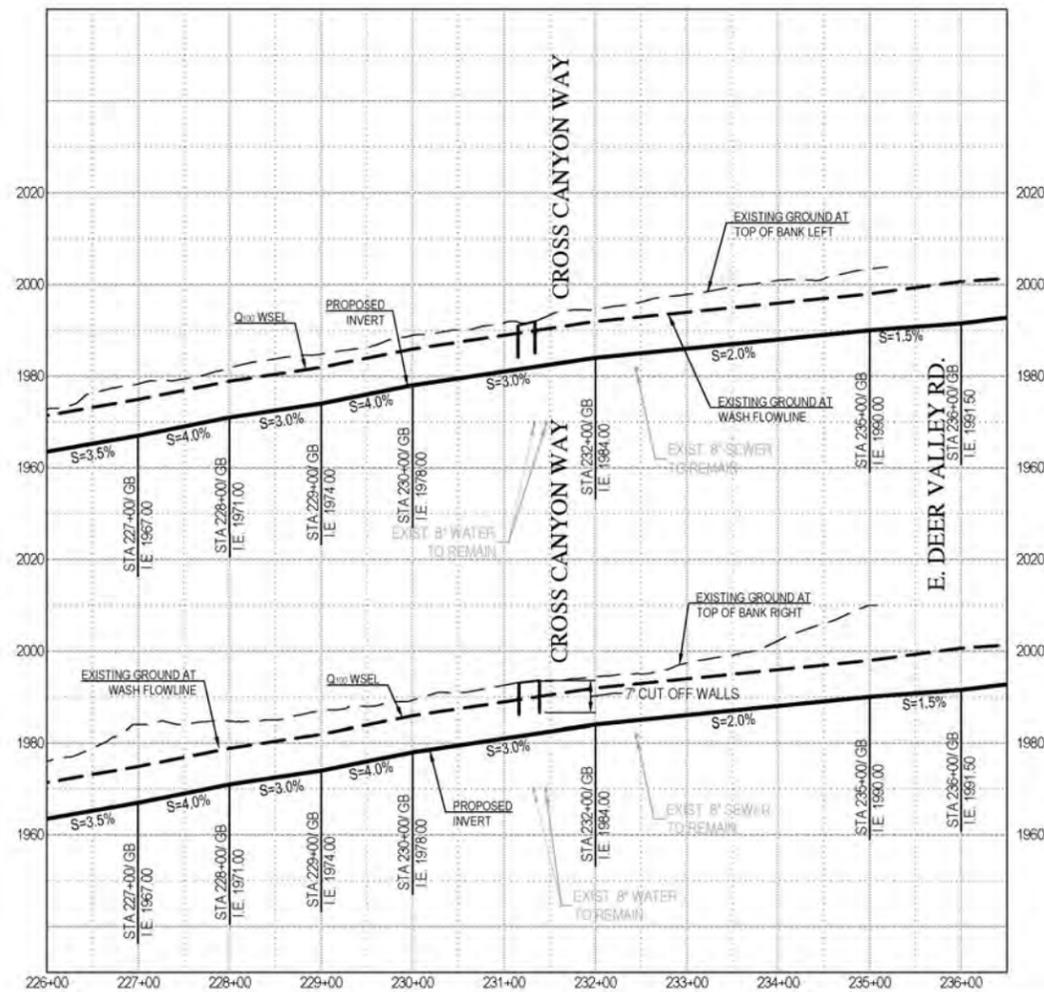
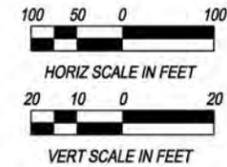
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GRADING NOTES

- 14 PROPOSED GROUTED ROCK CHANNEL. SEE TYPICAL SECTION SHEETS FOR DETAILS.
- 15 PROPOSED ROBC WITH WINGWALLS.
- 16 PROPOSED PAVEMENT REPLACEMENT AND GUARDRAILS.

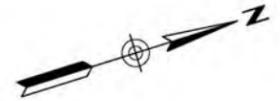


**EXHIBIT 5
 CONCEPT DESIGN PLANS (15%)**

**PRELIMINARY NOT FOR
 CONSTRUCTION OR RECORDING**

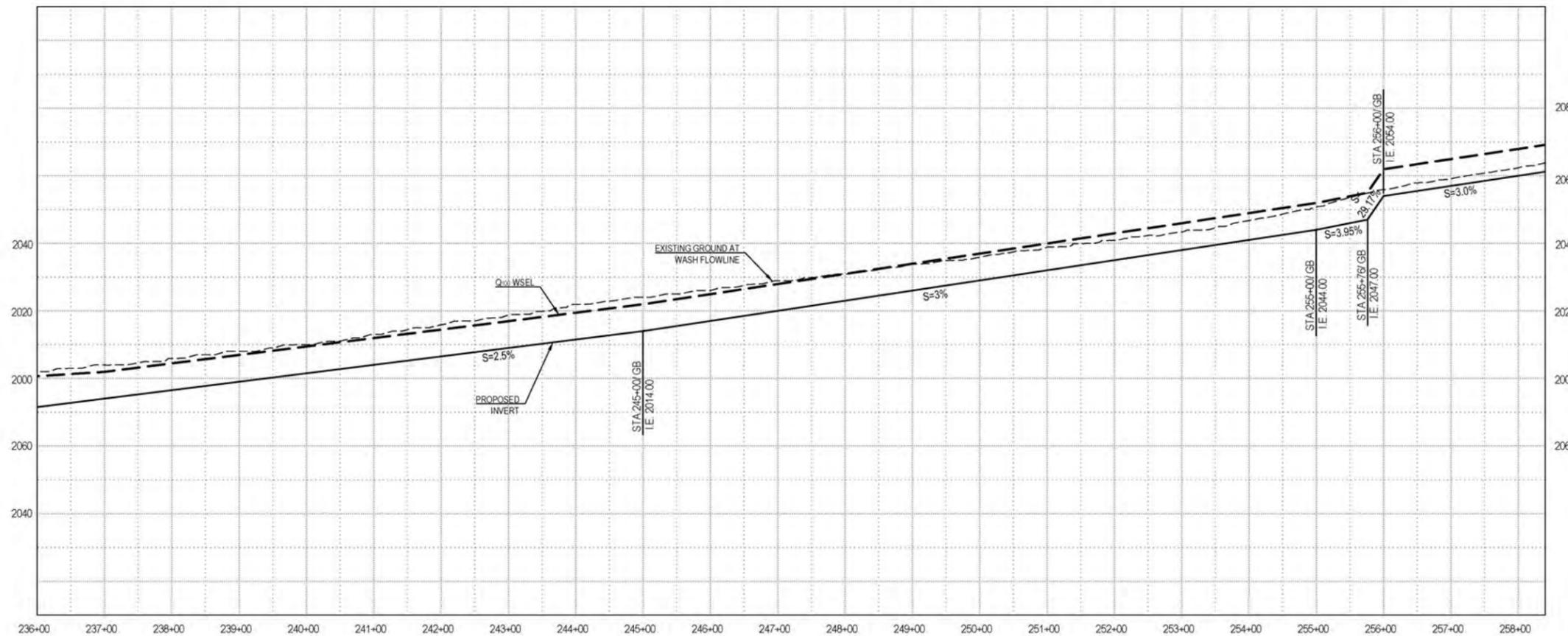
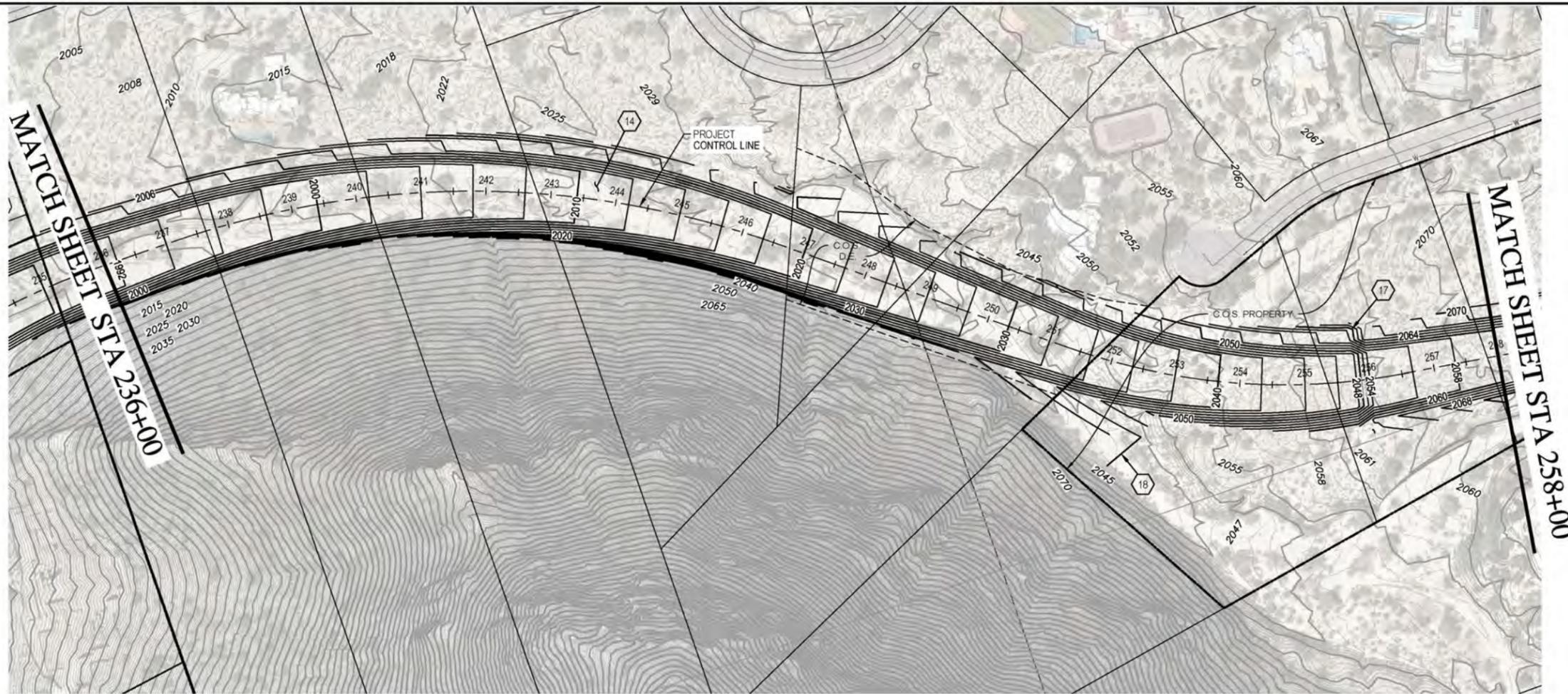
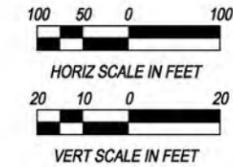


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|---|----------|---------------------|
| DATE | REVISION | BY |
| 15% PRELIMINARY NOT FOR CONSTRUCTION | | |
| PUBLIC WORKS CAPITAL PROJECT MANAGEMENT | | |
| 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251 | | |
| SHEET TITLE: CHANNEL PLAN & PROFILE SHEET | | |
| PROJECT TITLE: REATA WASH FLOOD CONTROL IMPROVEMENT STUDY | | |
| SCALE | DESIGNED | DATE |
| HORIZ 1" = 100' | DRAWN | August 2016 |
| VERT. 1" = 20' | AS-BUILT | XXXX |
| | | PROJECT NO. 14SQ011 |
| | | SHT. C10 |
| | | 16 OF 19 |



GRADING NOTES

- 14 PROPOSED GROUTED ROCK CHANNEL. SEE TYPICAL SECTION SHEETS FOR DETAILS.
- 17 PROPOSED GROUTED ROCK CHANNEL DROP.
- 18 PROPOSED OFFSITE FLOW INLET CHANNEL.

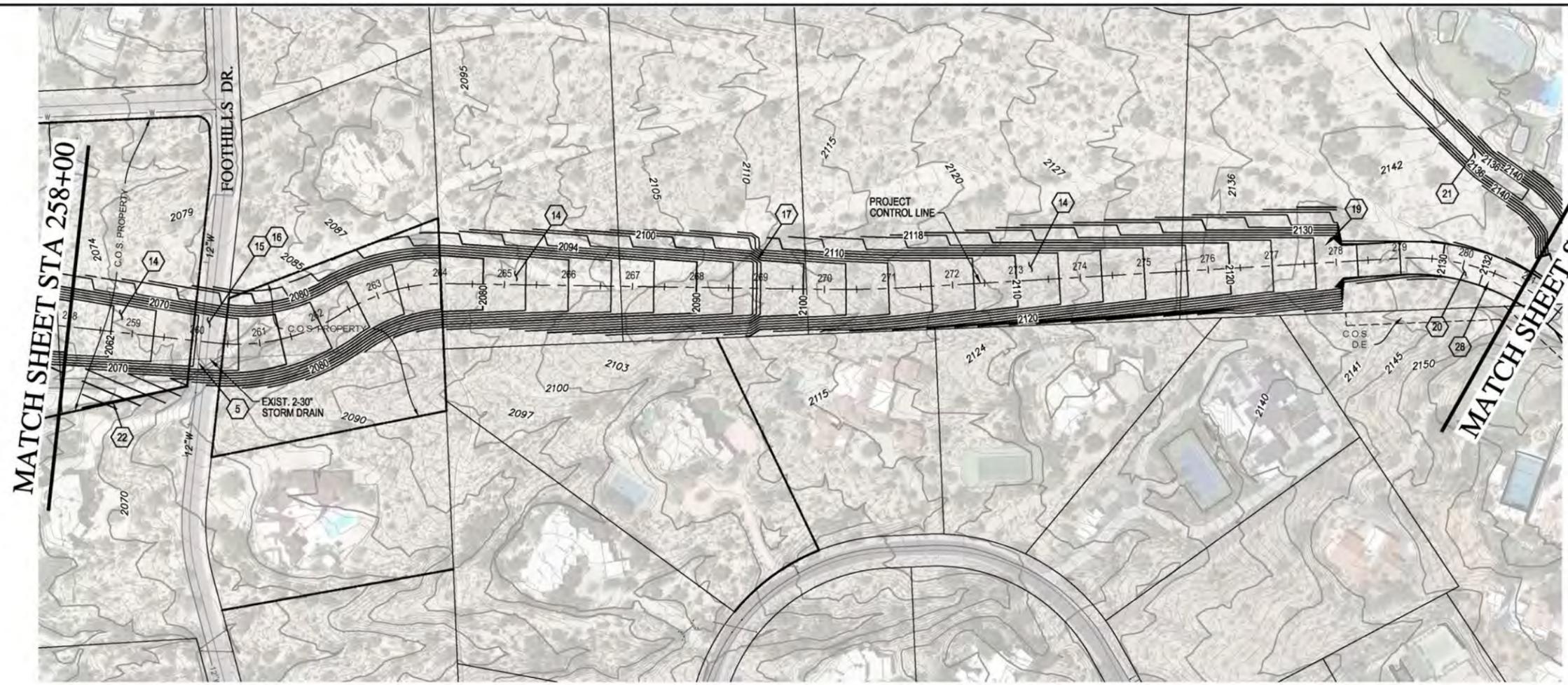
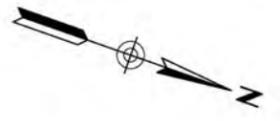


**EXHIBIT 5
 CONCEPT DESIGN PLANS (15%)**

**PRELIMINARY NOT FOR
 CONSTRUCTION OR RECORDING**



| DATE | REVISION | BY |
|---|--|---|
| <p>ENGINEER 15% PRELIMINARY NOT FOR CONSTRUCTION</p> | | |
| <p>CITY OF SCOTTSDALE PUBLIC WORKS CAPITAL PROJECT MANAGEMENT 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</p> | | |
| <p>SHEET TITLE CHANNEL PLAN & PROFILE SHEET</p> | | |
| <p>PROJECT TITLE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</p> | | |
| SCALE HORIZ 1" = 100' VERT. 1" = 20' | DESIGNED AS-BUILT DRAWN XX/XX | DATE August 2016 PROJECT NO. 14SQ011 |
| | | SHT. C11 17 of 19 |



- GRADING NOTES**
- ⑤ PROPOSED ENCASED WATER LINE RELOCATION.
 - ⑭ PROPOSED GROUTED ROCK CHANNEL. SEE TYPICAL SECTION SHEETS FOR DETAILS.
 - ⑮ PROPOSED RCBC WITH WINGWALLS.
 - ⑯ PROPOSED PAVEMENT REPLACEMENT AND GUARDRAILS.
 - ⑰ PROPOSED GROUTED ROCK CHANNEL DROP.
 - ⑲ PROPOSED TRANSITION FROM GROUTED ROCK CHANNEL TO CONCRETE "U" CHANNEL.
 - ⑳ PROPOSED CONCRETE "U" CHANNEL. SEE TYPICAL SECTION SHEETS FOR DETAILS.
 - ㉑ PROPOSED DOBSON WASH RELEASE CHANNEL DAYLIGHT GRADING.
 - ㉒ PROPOSED RETAINING WALL.
 - ㉓ POTENTIAL FUTURE WILDLIFE CROSSING.

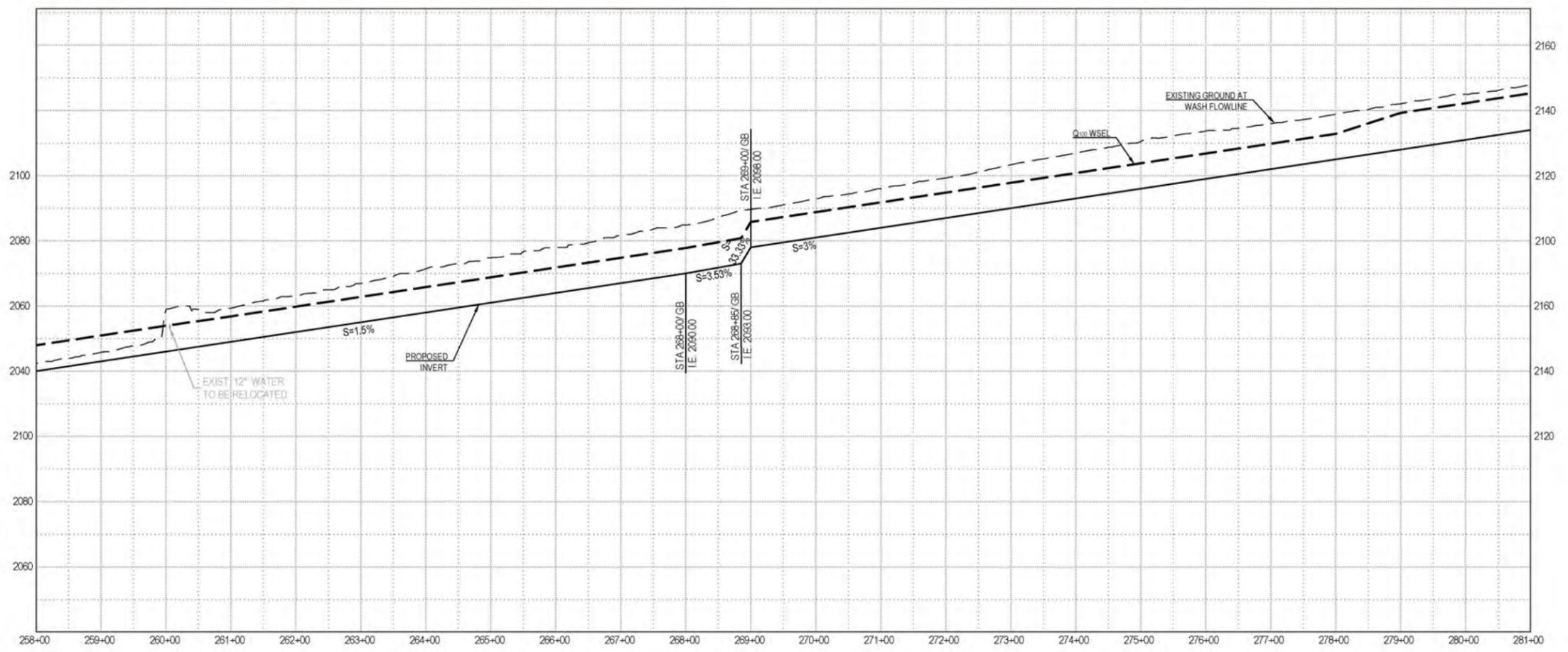
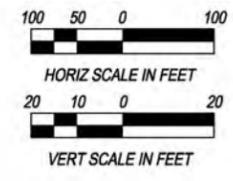


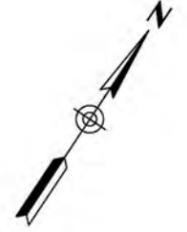
EXHIBIT 5
CONCEPT DESIGN PLANS (15%)
PRELIMINARY NOT FOR
CONSTRUCTION OR RECORDING



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|--|--|-------------|
| DATE | REVISION | BY |
| ENGINEER | PUBLIC WORKS | |
| 15% | CAPITAL PROJECT MANAGEMENT | |
| PRELIMINARY NOT FOR CONSTRUCTION | 7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251 | |
| SHEET TITLE CHANNEL PLAN & PROFILE SHEET | | |
| PROJECT TITLE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY | | |
| SCALE | DESIGNED | DATE |
| HORIZ 1" = 100' | DRAWN | August 2016 |
| VERT. 1" = 20' | AS-BUILT | XXXX |
| | PROJECT NO. | SHT |
| | 14SQ011 | C12 |
| | | 18 of 19 |

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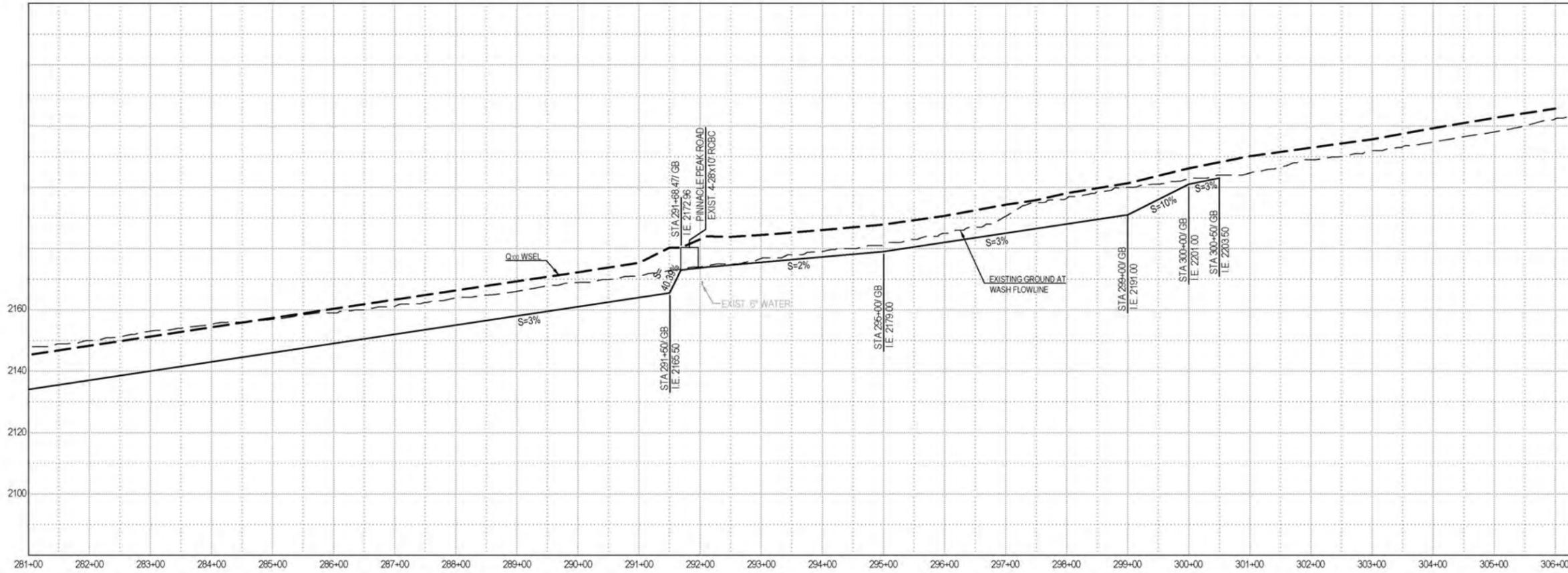
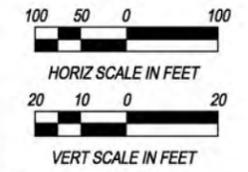
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MATCH SHEET STA 281+00



- GRADING NOTES**
- 18 PROPOSED OFFSITE FLOW INLET CHANNEL.
 - 20 PROPOSED CONCRETE "U" CHANNEL. SEE TYPICAL SECTION SHEETS FOR DETAILS.
 - 21 PROPOSED DOBSON WASH RELEASE CHANNEL DAYLIGHT GRADING.
 - 22 PROPOSED RETAINING WALL.
 - 23 PROPOSED CONCRETE TRANSITION STRUCTURE FROM GROUTED ROCK CHANNEL TO BRIDGE OPENING.
 - 24 PROPOSED FLOODWALL.
 - 25 BREAKAWAY FENCE.
 - 26 DOBSON WASH OUTLET STRUCTURE.
 - 27 PROPOSED "U" CHANNEL WITH GROUTED ROCK INVERT. SEE TYPICAL SECTION FOR DETAILS.



**EXHIBIT 5
 CONCEPT DESIGN PLANS (15%)**

**PRELIMINARY NOT FOR
 CONSTRUCTION OR RECORDING**

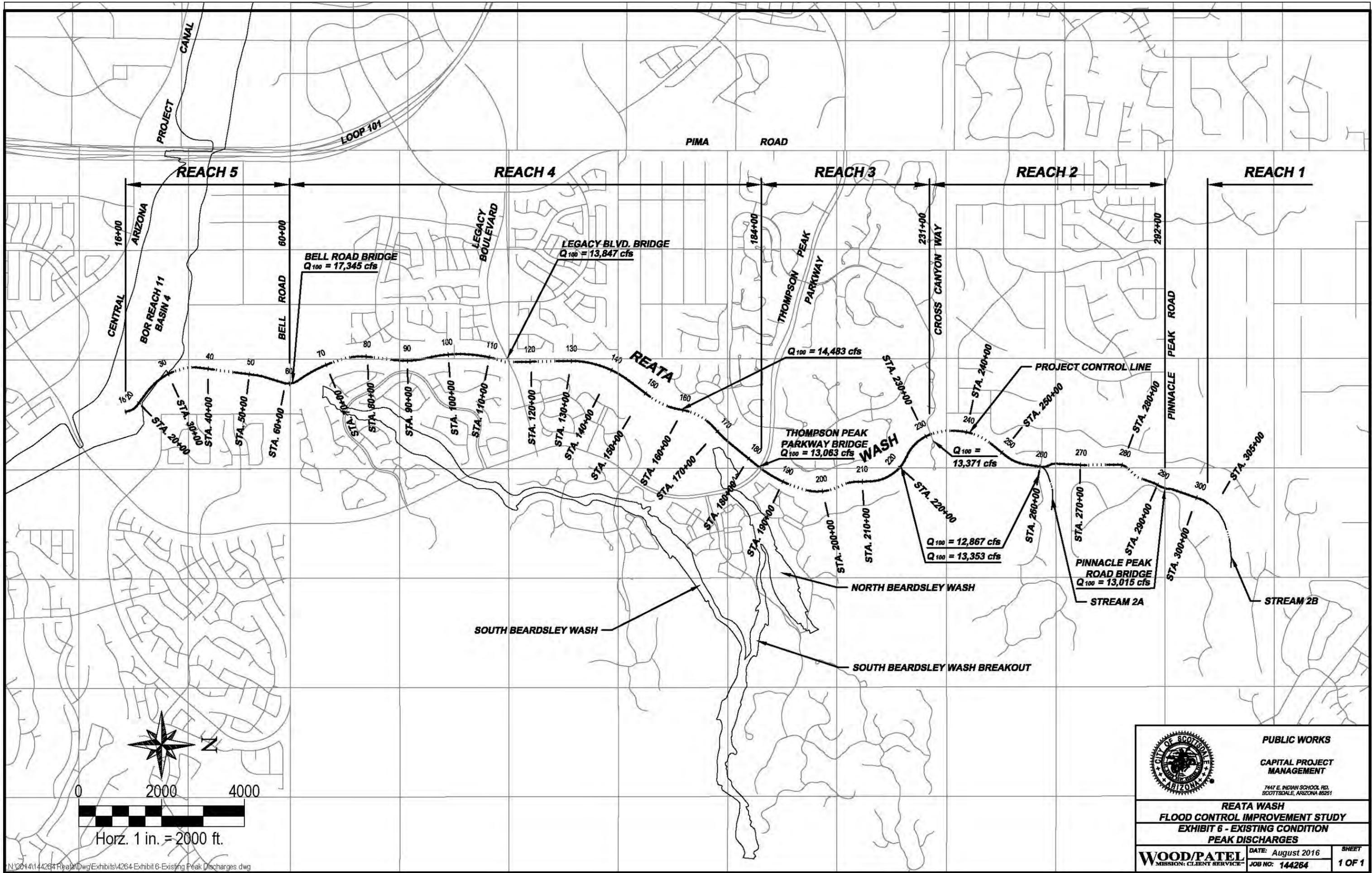


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|---|----------|---|
| DATE | REVISION | BY |
| <p>15% PRELIMINARY NOT FOR CONSTRUCTION</p> | | |
| <p>CITY OF SCOTTSDALE PUBLIC WORKS</p> | | <p>CAPITAL PROJECT MANAGEMENT</p> |
| <p>7447 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</p> | | |
| <p>SHEET TITLE CHANNEL PLAN & PROFILE SHEET</p> | | |
| <p>PROJECT TITLE REATA WASH FLOOD CONTROL IMPROVEMENT STUDY</p> | | |
| SCALE | DESIGNED | DATE |
| HORIZ 1" = 100' | AS-BUILT | August 2016 |
| VERT. 1" = 20' | DRAWN | XX/XX |
| <p>BID NO. XXXX</p> | | <p>SHT. C13</p> |
| <p>PROJECT NO. 14SQ011</p> | | <p>19 of 19</p> |

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EXHIBIT 6
EXISTING CONDITION PEAK DISCHARGES



PUBLIC WORKS

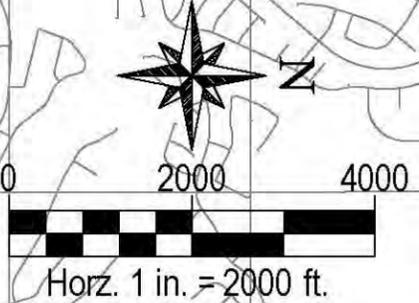
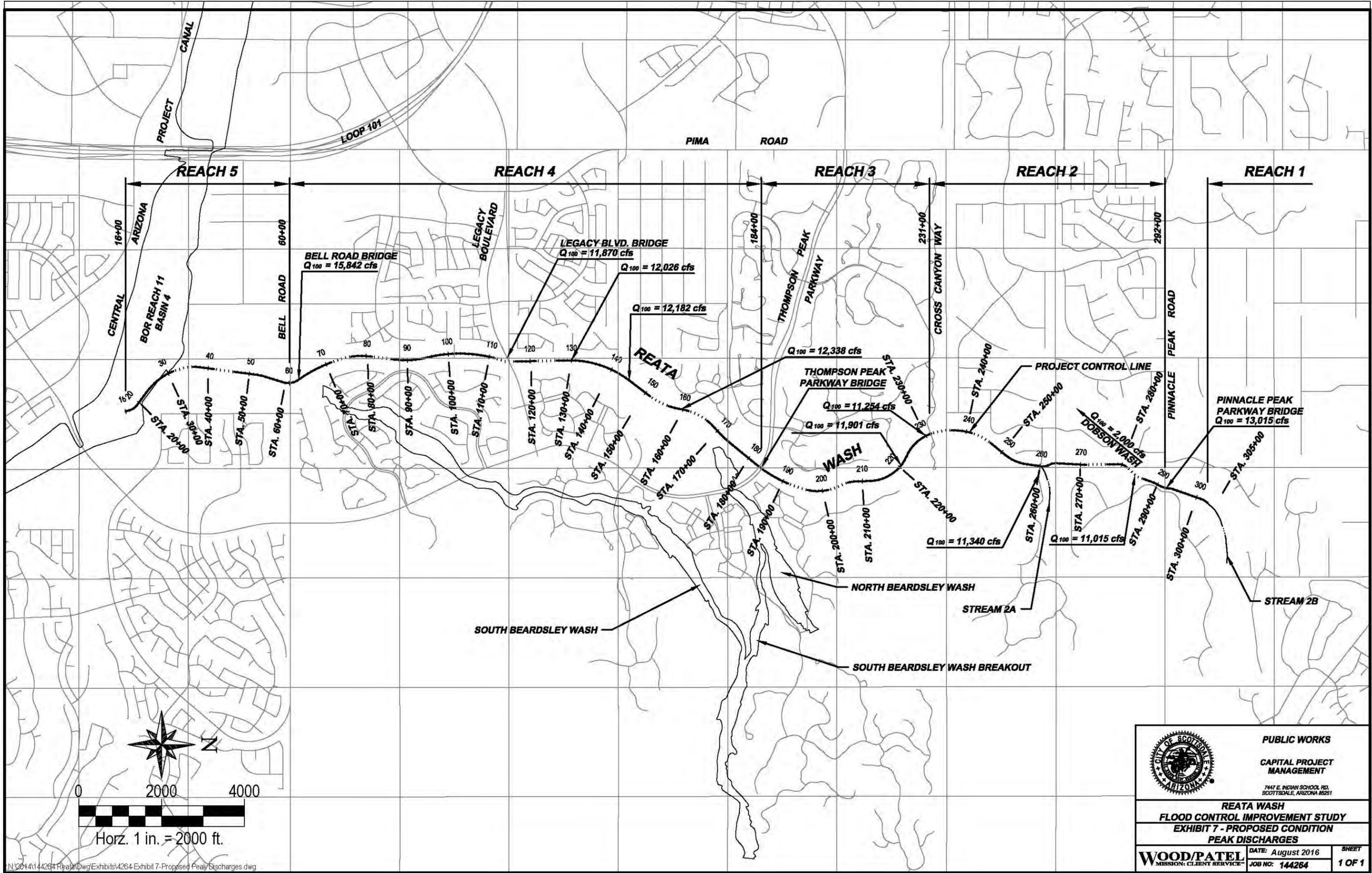
CAPITAL PROJECT MANAGEMENT

7417 E. INDIAN SCHOOL RD.
SCOTTSDALE, ARIZONA 85251

REATA WASH
FLOOD CONTROL IMPROVEMENT STUDY
EXHIBIT 6 - EXISTING CONDITION
PEAK DISCHARGES

| | | |
|---|-------------------|-----------------|
| WOOD/PATEL MISSION: CLIENT SERVICE™ | DATE: August 2016 | SHEET 1 OF 1 |
| | JOB NO: 144264 | |

EXHIBIT 7
PROPOSED CONDITION PEAK DISCHARGES



| | | |
|--|-------------------------------------|-----------------|
|  | PUBLIC WORKS | |
| | CAPITAL PROJECT MANAGEMENT | |
| <small>7417 E. INDIAN SCHOOL RD. SCOTTSDALE, ARIZONA 85251</small> | | |
| REATA WASH FLOOD CONTROL IMPROVEMENT STUDY EXHIBIT 7 - PROPOSED CONDITION PEAK DISCHARGES | | |
| WOOD/PATEL MISSION: CLIENT SERVICE™ | DATE: August 2016 JOB NO: 144264 | SHEET 1 OF 1 |