

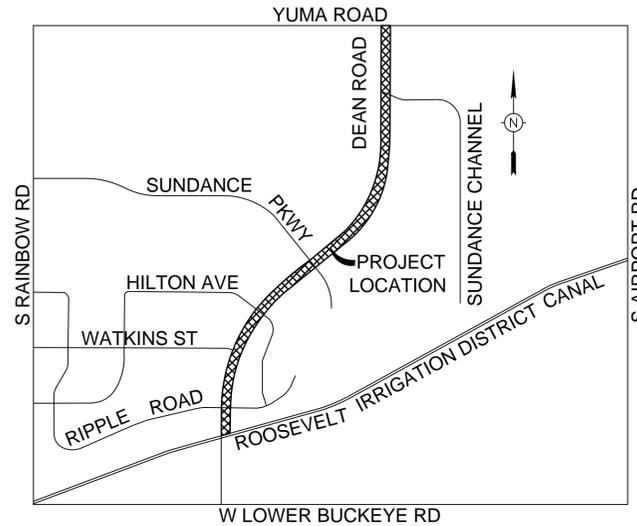
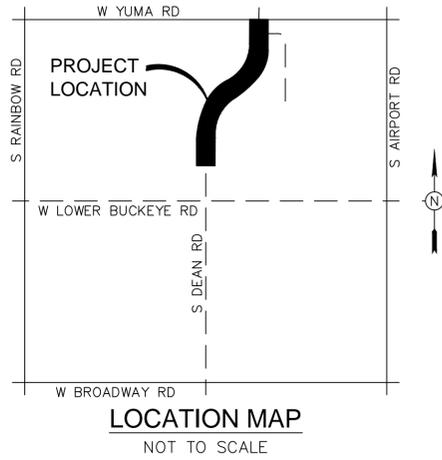
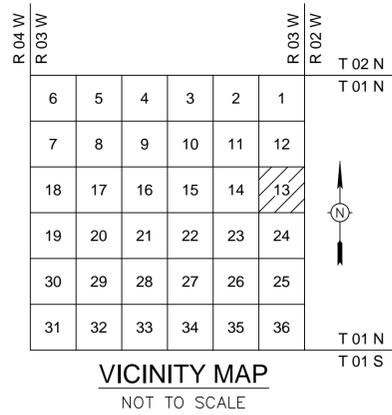
# CITY OF BUCKEYE

## DEAN ROAD

### LANDSCAPE AND TRAIL

### RID CANAL TO YUMA ROAD

A PORTION OF SECTION 13, TOWNSHIP 1 NORTH, RANGE 3  
WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN,  
MARICOPA COUNTY, ARIZONA



#### MAYOR

JACKIE A. MECK

#### VICE MAYOR

ERIC ORSBORN

#### CITY COUNCIL

BRIAN MCACHRAN  
ROBERT GARZA  
MICHELLE HESS  
RAY STRAUSS  
CRAIG HEUSTIS  
ERIC OSBORN

#### ENGINEER

KIMLEY-HORN & ASSOCIATES, INC.  
CONTACT: CHRIS WOOLERY  
7740 N 16TH ST, SUITE 300  
PHOENIX, AZ 85020  
OFFICE (602) 944-5500  
FAX (602) 944-7423

#### LANDSCAPE ARCHITECT

KIMLEY-HORN & ASSOCIATES, INC.  
CONTACT: ANNE BEAVERS  
7740 N 16TH ST, SUITE 300  
PHOENIX, AZ 85020  
OFFICE (602) 944-5500  
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#### BASIS OF BEARING

THE MONUMENT LINE OF DEAN ROAD BETWEEN YUMA ROAD  
AND SONORA STREET. SAID LINE BEARS N00°16'39"E.

#### BENCH MARK

FOUND BRASS CAP IN HANDHOLE STAMPED UNREADABLE  
(MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION POINT  
NAME 50562-1). ELEVATION = 992.189 (NAVD '88)

#### GENERAL PERMITTING NOTES

- ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF BUCKEYE DESIGN STANDARDS. IF THERE IS A CONFLICT, THE CITY OF BUCKEYE STANDARDS WILL GOVERN.
- THE APPROVAL OF THE PLANS IS VALID FOR ONE (1) YEAR FROM THE DATE OF THE CITY ENGINEER'S SIGNATURE. IF AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN ONE (1) YEAR, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
- A CITY OF BUCKEYE INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF BUCKEYE RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY THE CITY 24 HOURS PRIOR TO THE INSPECTION BY CALLING (623) 349-6248.
- CITY PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. A CITY PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER ALL FEES HAVE BEEN PAID AND THE PERMIT HAS AN APPROVED MARICOPA COUNTY ENVIRONMENTAL SERVICES DUST PERMIT AND AN APPROVED STORM WATER POLLUTION PREVENTION PLAN ATTACHED. THE SWPPP SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- COPIES OF ALL PERMITS AND MOST RECENT APPROVED PLANS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS AND PLANS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL PROPER PERMIT DOCUMENTATION AND/OR PLANS ARE OBTAINED. ALL OF THESE REQUIREMENTS APPLY TO ONSITE GRADING AND IMPROVEMENT PLANS.

#### UTILITY COMPANIES DATE SUBMITTED

UTILITY COMPANIES	DATE SUBMITTED
ELECTRIC	ARIZONA PUBLIC SERVICE 02/13/15
COAXIAL, FIBER	AT&T 02/13/15
FIBER	SPRINT 02/13/15
IRRIGATION	ROOSEVELT IRRIGATION DISTRICT 02/13/15
CATV, FIBER	COX COMMUNICATIONS 02/13/15
WATER	CITY OF BUCKEYE 02/13/15
SEWER	CITY OF BUCKEYE 02/13/15
COAXIAL, FIBER	SOUTHWEST GAS 02/13/15

#### APPROVAL

##### DISCLAIMER:

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS AND OMISSIONS.

BY: \_\_\_\_\_ DATE \_\_\_\_\_  
CITY OF BUCKEYE ENGINEER

#### AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS - BUILT" INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ARIZONA REGISTERED LAND SURVEYOR DATE \_\_\_\_\_

ARIZONA REGISTRATION NUMBER \_\_\_\_\_

TELEPHONE NUMBER \_\_\_\_\_

MANAGING LANDSCAPE ARCHITECT / SURVEYOR ANNE BEAVERS, P.L.A./ JASON SEGNERI, R.L.S.	PROJECT COORDINATOR ANNE BEAVERS, P.L.A.	CHECKED	CCW	CHECKED
		DRAFTED	MAP	DRAFTED
DESIGN LAYOUT		ASB	FIELD SURVEY	
DRAWING SCALES		AS NOTED ON PLANS		

LANDSCAPE AND TRAIL  
IMPROVEMENT PLANS

**Kimley»Horn**

7740 N. 16TH STREET, SUITE 300, PHOENIX, AZ 85020  
PHONE: 602-944-5500 | FAX: 602-944-7423  
WWW.KIMLEY-HORN.COM

DEAN ROAD:  
RID CANAL TO YUMA RD  
LANDSCAPE AND TRAIL  
COVER SHEET

REVISIONS:

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COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL

DESIGN SEAL

DATE SIGNED 03/12/15  
ANNE S. BEAVERS  
ARIZONA, U.S.A.  
Expires 03/31/2016

ORIGINAL PLAN DATE  
MARCH 12, 2015

LATEST REVISION DATE

PROJECT No. SHEET ID. SHEET No.  
CV01 1 OF 39

COB PLAN TRACKING #

COB PERMIT #

SUBMITTAL: FINAL



**CITY OF BUCKEYE GENERAL CONSTRUCTION NOTES**

- CITY OF BUCKEYE BUILDING SAFETY DEPARTMENT SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY ON-SITE OR OFF-SITE CONSTRUCTION. PHONE 623-349-6248 FOR THE HOTLINE. ALL OTHERS FAX THE INSPECTION REQUEST FORM TO 623-349-6221, OR USE THE WEB BASED PERMIT PORTHOLE ACCESS TO SCHEDULE AN INSPECTION (WWW.BUCKEYEAZ.GOV).
- ALL WORK AND MATERIALS MUST CONFORM WITH THESE SPECIFICATIONS, THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) AND AS AMENDED BY THE CITY OF BUCKEYE (COB).
- A PERMIT IS REQUIRED FROM THE COB FOR ALL CONSTRUCTION WITHIN THE RIGHTS-OF-WAY (ROW).
- THE CONTRACTOR WILL EXPOSE ALL EXISTING UTILITY LINES BEING TIED IN TO VERIFY THEIR LOCATION.
- THE CONTRACTOR WILL LOCATE, OR HAVE LOCATED, ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINE, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE TO CALL BLUE STAKE PRIOR TO STARTING ANY CONSTRUCTION. NO WORK SHALL BEGIN UNTIL BLUE STAKE IS COMPLETED. BLUE STAKE TELEPHONE NUMBER 602-263-1100 OR 1-800-STAKE-IT.
- A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO STARTING ANY WORK OR NEW PHASE OF WORK. THE CONTRACTOR, KEY SUB-CONTRACTORS, COB INSPECTOR AND REPRESENTATIVE OF THE CITY ENGINEER SHALL ATTEND THIS MEETING.
- ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COB AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- DISPOSAL OF EXCESS MATERIAL WITHOUT A PERMIT WITHIN THE COB LIMITS IS PROHIBITED. A USE PERMIT IS REQUIRED FOR DISPOSAL OR STOCKPILING OF MATERIALS WITHIN A RESIDENTIAL AREA. STOCKPILING OF EXCAVATED MATERIAL SHALL NOT EXCEED A HEIGHT OF 6 FEET ABOVE THE NATURAL GROUND ELEVATION. THE SLOPES ON ALL SIDES OF THE STOCKPILED EXCAVATED MATERIAL SHALL NOT EXCEED A 4:1 RATIO OF LENGTH TO HEIGHT.
- EXCAVATION CONTRACTORS MUST IDENTIFY LOCATION FOR DISPOSING OF EXCESS EXCAVATION MATERIAL ALONG WITH A LETTER FROM THE LAND OWNER, GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ANY CONSTRUCTION.
- TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF PHOENIX BARRICADING MANUAL, MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION, MAG UNIFORM STANDARD DETAIL 401, AND COB REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN AND BARRICADE PLAN TO THE COB FOR APPROVAL WHERE THE CONSTRUCTION OF THE NEW IMPROVEMENTS ARE ADJACENT TO OR CONNECTING TO ANY EXISTING ROADWAY OR PEDESTRIAN FACILITIES. THE TRAFFIC CONTROL PLAN AND BARRICADE PLAN SHALL BE APPROVED BEFORE A PERMIT FOR THE WORK WILL BE ISSUED. THE CONTRACTOR SHALL INSTALL APPROVED BARRICADING AND TRAFFIC CONTROL, AS APPROVED BY THE COB, BEFORE WORK CAN TAKE PLACE. ALL OVERNIGHT BARRICADES SHALL BE LIT AND FUNCTIONING.
- A HAUL PLAN FOR MATERIAL IMPORT OR EXPORT SHALL BE REQUIRED FOR COB REVIEW AND APPROVAL PRIOR TO THE START OF HAULING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC. THIS WORK INCLUDES STREET SWEEPING, POWER BROOM AND WATER AS NEEDED OR DIRECTED BY THE COB.
- ENVIRONMENTAL REQUIREMENTS:
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL RELATED TO THE PROJECT CONSTRUCTION AND SHALL TAKE WHATEVER MEANS NECESSARY TO CONTROL ANY ABNORMAL CONDITIONS.
  - THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC.
  - TEMPORARY DRAINAGE CONTROL MEASURES MAY BE REQUIRED DURING AND AFTER CONSTRUCTION UNTIL FINAL PROJECT BUILD-OUT IN ACCORDANCE WITH THE APPROVED PLANS AND IN ACCORDANCE WITH ANY ESTABLISHED OR REQUIRED BEST MANAGEMENT PRACTICES (BMP) AS PART OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL REQUIREMENTS.
  - THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL AIR QUALITY PERMITS.
  - THE CONTRACTOR SHALL SUBMIT TO THE COB A COPY OF THEIR APPROVED COUNTY (AIR QUALITY) DUST CONTROL PLAN, EROSION CONTROL PLAN (SWPPP), AND PERMIT PRIOR TO THE START OF WORK.
- STREET CUTS: APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. THE PAVEMENT REPLACEMENT SECTION FOR ALL LONGITUDINAL AND TRANSVERSE TRENCHES LOCATED IN AN EXISTING PAVED STREET SHALL BE CONSTRUCTED IN ACCORDANCE WITH MAG UNIFORM STANDARD DETAIL NO. 200 "TYPE B" TRENCH REPAIR, BACKFILL, PAVEMENT SURFACE REPLACEMENT, 2' WIDE. SAWCUT OR CONSTRUCTION JOINTS SHALL BE ADEQUATELY TACK OILED WITH A MINIMUM OF 95% COVERAGE. ASPHALT MATERIAL SHALL BE A COB APPROVED MIX DESIGN WITH COMPACTED LIFTS NO GREATER THAN 3 INCHES. SLURRY BACKFILLED OR OPEN TRENCHES IN EXISTING ROADWAYS MUST BE PROPERLY STEEL PLATED AND BARRICADED OVER NIGHT. STEEL PLATES TO BE MILLED FLUSH WITH ROADWAY SURFACE PER NOTE 24. "COLD MIX" TEMPORARY ASPHALT PATCHES MUST BE REPLACED AS SOON AS POSSIBLE AND CANNOT REMAIN FOR MORE THAN 5 DAYS TIME OR AS REQUIRED BY THE COB. DURING THE 5 DAY PERIOD THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PATCH TO WITHIN MAD STD SPEC 321.5.3.
- POTHOLING: NO POTHOLING SHALL BE DONE ON ANY STREET NEWER THAN 2 YEARS OLD. ALL POTHOLING IN EXISTING STREETS SHALL BE DONE USING WATER/AIR/VACUUM TYPE METHOD. POTHOLE SIZE SHALL BE LIMITED TO A 12 INCH BY 12 INCH SQUARE HOLE. REMOVAL MATERIAL CANNOT BE USED FOR BACK FILL. THE CONTRACTOR SHALL USE SLURRY PER MAG SEC. 728. PAVEMENT REPLACEMENT SHALL BE BY APPROVED HOT MIX ASPHALT ONLY. A 3 FOOT BY 3 FOOT PAVEMENT SLURRY SEAL SHALL BE APPLIED AFTER THE ASPHALT IS PLACED.
- AN APPROVED, UP-TO-DATE SET OF PLANS AND A RIGHT-OF-WAY PERMIT SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WHILE WORK IS IN PROGRESS. IF THE PLANS AND PERMITS ARE NOT ON SITE, THE WORK SHALL BE STOPPED UNTIL THE APPROVED PLANS ARE PROVIDED.

- DAMAGE TO ANY AND ALL ITEMS CAUSED BY CONSTRUCTION OR CONSTRUCTION RELATED WORK SHALL BE REPLACED OR REPAIRED TO THE SAME OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
- ALL PARCEL CONSTRUCTION ACCESS LOCATIONS ARE SUBJECT TO THE CITY ENGINEER'S APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER AND ADEQUATE ACCESS ROADS INSIDE AND THROUGHOUT THE PARCEL ALLOWING FOR INSPECTION ACCESSIBILITY. THIS INCLUDES GRADING, GRAVEL FILL AND/OR TRENCH PLATES AS REQUIRED.
- THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COB AND THE COB CONSULTANTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE COB.
- THE COB SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONNECTION WITH THE WORK. THE COB WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS COMPLYING WITH THE MAG OR COB REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CERTIFIED AS-BUILT RECORD DOCUMENTS TO THE COB FOR REVIEW AND APPROVAL. NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL "AS-BUILT" PLANS CERTIFIED BY THE PROJECT ENGINEER/LAND SURVEYOR HAVE BEEN SUBMITTED AND ACCEPTED BY THE COB. FINAL CONSTRUCTION ACCEPTANCE OR THE RELEASE OF CERTIFICATE OF OCCUPANCIES SHALL NOT BE ISSUED UNTIL ALL AS-BUILT DRAWINGS AND OTHER REQUIRED DOCUMENTS FOR THE COB'S FINAL PROJECT SUBMITTAL CHECKLIST, HAVE BEEN REVIEWED AND APPROVED BY THE CITY ENGINEER.
- ARRANGEMENTS FOR CONSTRUCTION WATER CAN BE MADE BY CALLING WATER RESOURCE DEPARTMENT AT (623) 349-6800.
- THE COB IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR RELOCATION OF UTILITIES.
- ALL CONTRACTORS SHALL CONTRACT FOR TRASH PICKUP THROUGH A LICENSED CITY OF BUCKEYE SOLID WASTE HAULER (602-237-2078) AND DISPOSED OF AT THE SOUTHWEST REGIONAL LANDFILL IN BUCKEYE.
- OPEN TRENCHES ACROSS DRIVEWAYS, STREETS, AND CROSS-STREETS SHALL BE PLATED FOR OVERNIGHT, WEEKEND OR EXTENDED PERIODS, PER MAG UNIFORM STANDARD DETAIL 211.
- ALL ABC SHALL BE FROM AN ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) APPROVED SOURCE LIST.
- LONGITUDINAL TRENCH BACKFILL IN EXISTING ARTERIAL, COLLECTOR, OR LOCAL ROADWAYS OR ADJACENT TO EXISTING ROADWAY (WHEN THE TRENCH EXCAVATION FALLS WITHIN 2 FEET OF EDGE OF PAVEMENT) SHALL REQUIRE ½ SACK CLSM PER MAG SPEC 728 FULL DEPTH OR ABC FULL DEPTH AS DIRECTED BY THE COB. ABC BACKFILL COMPACTION SHALL BE BY AN APPROVED MECHANICAL METHOD (NO WATER SETTLING) WITH BACKFILL MATERIAL LIFTS AS FOLLOWS:
  - 12 INCH LIFTS (LOOSE) TO BE USED IN THE TOP 4 FEET OF THE TRENCH
  - 24 INCH LIFTS (LOOSE) TO BE USED FROM 1 FOOT OVER THE PIPE TO 4 FEET FROM THE TOP OF THE TRENCH PER MAG SEC 601.4
- ALL BACKFILL WITHIN OR ADJACENT TO EXISTING ROADWAYS SHALL BE MECHANICALLY COMPACTED.
- TRANSVERSE TRENCH BACKFILL IN ALL EXISTING ROADWAY SHALL REQUIRE 100% FULL DEPTH HALF SACK CLSM PER MAG SPEC 728.
- ALL MATERIAL SUBMITTALS INCORPORATED IN THE PROJECT SHALL BE SUBMITTED AT OR BEFORE THE PRE-CONSTRUCTION MEETING FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.

**GENERAL LANDSCAPE NOTES**

- ALL WORK SHALL BE CONFINED TO LIMITS OF CONSTRUCTION AS SHOWN ON PLANS.
- SITE GRADING NECESSITATED BY THE WORK AS IT PROGRESSES AND NOT SPECIFICALLY CALLED OUT ON THE PLANS SHALL BE CONSIDERED INCIDENTAL WORK.
- CONTRACTOR SHALL COORDINATE AND BE IN COMPLIANCE WITH ALL STATE AND LOCAL MUNICIPALITIES AS WARRANTED.
- CONTRACTOR IS REQUIRED TO MAINTAIN COMPLIANCE WITH ALL REQUIREMENTS OUTLINED IN THE ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM (AZPDES) CONSTRUCTION GENERAL PERMIT ADMINISTERED BY ADEQ.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING ANY REQUIRED EROSION/SEDIMENT CONTROL MEASURE FOR ANY IMPACTS WITHIN THE PROJECT AREA, INCLUDING STOCKPILING AND STAGING AREAS.
- CONTRACTOR IS TO REVIEW PLANS, VERIFY SITE CONDITIONS AND PLANT QUANTITIES PRIOR TO INSTALLATION. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND EXISTING SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
- DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER, OR THE LANDSCAPE ARCHITECT MAY BE CAUSE FOR THE WORK TO BE DESIGNATED UNACCEPTABLE.
- THE CONTRACTOR ACKNOWLEDGES & AGREES THAT THE WORK IS ENTIRELY AT HIS RISK UNTIL SITE IS ACCEPTED, AND HE WILL BE HELD RESPONSIBLE FOR ITS SAFETY BY THE OWNER.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE DAMAGE OR LOSS OF ANY REFERENCE POINTS AND HUBS DURING THE CONSTRUCTION OF HIS WORK, AND SHALL BEAR THE COST OF REPLACING SAME.

- THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC AND PRIVATE UTILITIES WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC., DURING ALL CONSTRUCTION PHASES UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- ANY FOREIGN ITEM FOUND DURING CONSTRUCTION IS THE PROPERTY OF THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, PRECIOUS METALS, COINS, PAPER CURRENCY, ARTIFACTS AND ANTIQUITIES.
- ALL SURPLUS EXCAVATION SHALL BE TAKEN TO A SITE DESIGNATED BY OWNER, AT NO ADDITIONAL COST TO THE OWNER. IF OWNER CHOOSES, THE CONTRACTOR MAY TAKE POSSESSION OF SURPLUS EXCAVATION MATERIAL.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND/OR OBTAINING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR IS TO MAINTAIN CONTROLLED PEDESTRIAN AND ADA ACCESS THROUGH ALL AREAS OF THE SITE THROUGHOUT CONSTRUCTION PERIOD.
- MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION AT ALL TIMES. DAILY, AND MORE OFTEN IF NECESSARY, INSPECT & AND PICK UP ALL SCRAP, DEBRIS, & WASTE MATERIAL.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, ROCK MULCH AND OTHER MATERIALS TRACKED ONTO ANY PRIVATE OR PUBLIC STREETS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN THESE DAILY, IF NECESSARY. THE CONTRACTOR MUST USE WATER OR OTHER ACCEPTABLE METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMUM.
- PROVIDE PROTECTION TO ALL FINISHED WORK. MAINTAIN SURFACES CLEAN, UNMARRED, AND SUITABLY PROTECTED UNTIL ACCEPTANCE BY OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY TO EXISTING ELEMENTS THAT ARE TO REMAIN.
- EROSION CONTROL MEASURES (IE: SILT FENCING AND SEDIMENT CONTROL) SHALL BE MAINTAINED BY THE CONTRACTOR PER CIVIL SPECIFICATIONS. ANY EROSION CONTROL MEASURES DAMAGED BY THE CONTRACTOR SHALL BE REPLACED PER CIVIL SPECIFICATIONS.
- PLANT QUANTITIES LISTED IN THE PLANT LEGEND ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL DO THEIR OWN TAKE-OFFS AND BASE BID ACCORDINGLY.
- ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL BRANCHED, AND DENSELY FOLIATED (WHEN IN-LEAF) AS IS TYPICAL FOR THE SPECIES. THEY SHALL HAVE HEALTHY, WELL DEVELOPED STANDARDS, AND BE FREE OF ANY BRUISES, CUTS OR OTHER ABNORMALITIES. PLANT MATERIAL SHALL BE SIZED IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN.
- OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL DEEMED UNACCEPTABLE.
- LANDSCAPE CONTRACTOR TO TAG AND HOLD ALL PLANT MATERIAL A MINIMUM OF 30 DAYS PRIOR TO DATE OF INSTALLATION. ALL PLANT MATERIAL SUBSTITUTIONS MADE WITHIN THE 30 DAYS PRIOR TO INSTALLATION TO BE THE NEXT SIZE LARGER AT NO ADDITIONAL COST TO THE CLIENT.
- ALL TREE LOCATIONS TO BE STAKED AND APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- INSTALL ALL CANOPY TREES WITH A MINIMUM OF 5 FT. SEPARATION FROM ALL UTILITIES, UNLESS A ROOT BARRIER IS UTILIZED.
- THE LANDSCAPE CONTRACTOR SHALL MAINTAIN PLANTED AREAS BY MEANS OF CONTINUOUS WATERING, PRUNING, RAISING TREE ROOT BALLS WHICH SETTLE BELOW GRADE, APPLICATION OF SPRAYS WHICH ARE NECESSARY TO KEEP THE PLANTING FREE OF INSECTS AND DISEASES, FERTILIZING, WEEDING, MOVING, EDGING AND/OR OTHER OPERATIONS NECESSARY FOR PROPER CARE AND UPKEEP.
- DECOMPOSED GRANITE: ALL AREAS LABELED DECOMPOSED GRANITE ON THE PLANS ARE TO BE APPROVED BY OWNER. 2" DEPTH THROUGHOUT ENTIRE PROJECT. FINISH GRADE IN ALL AREAS TO BE SMOOTH AND EVEN AND 1" BELOW TOP OF CURB OR SIDEWALK.
- AREAS TO RECEIVE DECOMPOSED GRANITE SHALL BE SPRAYED A MINIMUM OF TWO APPLICATIONS APPROVED PRE-EMERGENT HERBICIDE (SURFLAN OR APPROVED EQUAL). FIRST APPLICATION SHALL BE APPLIED DIRECTLY TO THE SOIL SURFACE. SECOND APPLICATION SHALL BE APPLIED TO DECOMPOSED GRANITE AFTER SETTLEMENT. ALL HERBICIDE APPLICATIONS SHALL BE MADE BY A LICENSED APPLICATOR IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. PROVIDE LISTING OF MANUFACTURERS WITH CHEMICAL ANALYSIS AND APPLICATIONS. PROVIDE 48 HOUR NOTIFICATION TO THE OWNER'S REPRESENTATIVE PRIOR TO STARTING APPLICATIONS. FIELD VERIFY INSTALLATION LIMITS OF ALL DECOMPOSED GRANITE COVER WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
- DECOMPOSED GRANITE SHALL EXTEND UNDER TREES AND SHRUBS.
- CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE ENTIRE PROJECT FOR 90 DAYS AFTER ACCEPTANCE OF THE WORK BY THE OWNER'S REPRESENTATIVE. UPON COMPLETION OF THE MAINTENANCE PERIOD, THE OWNER WILL ASSUME ALL MAINTENANCE RESPONSIBILITY.
- PRIOR TO INITIATING THE 90-DAY MAINTENANCE PERIOD, COMPLETE ANY INITIAL PUNCH-LIST ITEMS. THEN OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE OF SUBSTANTIAL COMPLETION. DETERMINE WITH THE OWNER'S REPRESENTATIVE THE START DATE FOR THE 90-DAY MAINTENANCE PERIOD. CONTRACTOR TO MAINTAIN LANDSCAPE WHICH MAY INCLUDE WATERING, WEEDING, PRUNING, AND REPLACEMENT OF ANY MATERIAL THAT HAS DIED OR IS SHOWING EVIDENCE OF STRESS. SUBMIT WRITTEN REQUEST FOR FINAL PUNCH-LIST ONE WEEK PRIOR TO END OF MAINTENANCE PERIOD.
- ALL GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS AND TECHNICAL SPECIFICATIONS OF THE CONTRACT SHALL APPLY.

REVISIONS:
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3

**CITY OF BUCKEYE GRADING NOTES**

- ALL DESIGN AND CONSTRUCTION MUST BE IN ACCORDANCE WITH THE UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION PUBLISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) EXCEPT AS AMENDED BY THE TOWN OF BUCKEYE STANDARD CONSTRUCTION DETAILS. ALL IMPROVEMENTS WITHIN THE DEVELOPMENT INCLUDING OFFSITE IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE TEST TOWN OF BUCKEYE ENGINEERING DESIGN STANDARDS.
- NO GRADING SHALL BEGIN WITHOUT A PERMIT FROM THE TOWN OF BUCKEYE. OFFSITE CONSTRUCTION REQUIRES A SEPARATE PERMIT BY THE TOWN OF BUCKEYE.
- CONTRACTOR SHALL NOTIFY THE TOWN OF BUCKEYE PUBLIC WORKS DEPARTMENT ASSIGNED INSPECTOR AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY REQUIRED CONSTRUCTION INSPECTION.
- CONTRACTOR MUST CALL THE ARIZONA BLUE STAKE CENTER (602) 263-1100, FORTY-EIGHT (48) HOURS BEFORE DIGGING OR EXCAVATING FOR LOCATION OF ALL UNDERGROUND UTILITIES.
- IT IS THE RESPONSIBILITY OF THE DEVELOPER AND HIS/HER AGENT IN COORDINATING THE RELOCATION OF POWER POLES FROM THE APPLICABLE UTILITY COMPANY.
- NO MINIMUM FINISHED FLOOR ELEVATION SHALL BE ALTERED, UNLESS APPROVED BY PUBLIC WORKS AND THE DEVELOPER'S CIVIL ENGINEER.
- ALL STAKING INCLUDING FINISHED FLOOR ELEVATIONS IS THE SOLE RESPONSIBILITY OF THE DEVELOPER'S REGISTERED CIVIL ENGINEER AND LAND SURVEYOR. SUBMISSION OF CERTIFIED PAD ELEVATION IS REQUIRED PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR SHALL PROVIDE GRADING FOR POSITIVE DRAINAGE IN ALL RETENTION BASINS AT ELEVATIONS AS ABUTTING PUBLIC RIGHT OF WAY.
- DRYWALL INLET GRATE SHALL BE 0.30 FEET ABOVE FINISH GRADE AT BOTTOM ELEVATION OF THE RETENTION BASIN.
- DRILLING LOGS FOR DRYWALLS AT 5.0 FOOT INTERVALS INCLUDING LITHOLOGY CHANGES WILL BE FURNISHED TO THE TOWN OF BUCKEYE PUBLIC WORKS DEPARTMENT PRIOR TO FINAL ACCEPTANCE.
- PERCOLATION TESTS WILL BE REQUIRED OF COMPLETED DRYWALLS PRIOR TO ACCEPTANCE. SHOULD EXISTING SOIL CONDITIONS BE ENCOUNTERED WHICH LACK SUFFICIENT PERCOLATION RATES, ADDITIONAL DRYWALLS OR ON ALTERNATE METHOD OF STORM WATER RUN-OFF DISPOSAL WILL BE REQUIRED. FINAL CERTIFIED PERCOLATION TEST RATES FROM ASTM D3385 SHALL BE SUBMITTED AT THE TIME OF AS-BUILTS, WITH THE REQUIRED REDUCTION FACTOR.
- DRYWELL CONSTRUCTION SHALL BE DONE ONLY BY A CONTRACTOR LICENSED BY THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY WITH THE APPROVED REGISTRATION FOR EACH DRYWELL.
- THE APPROVED DRYWELL REGISTRATION SHALL BE SUBMITTED TO THE TOWN BY THE DEVELOPER OR HIS/HER CIVIL ENGINEER AT THE TIME AS-BUILTS ARE SUBMITTED.
- CONTRACTOR SHALL COMPLY WITH THE PROVISIONS FOR WORK ZONE SAFETY AND TRAFFIC CONTROL PROTECTION AS INDICATED IN PART IV OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD 2003 EDITION) AND WHERE APPLICABLE ACROSS JURISDICTIONAL AUTHORITIES BUT WITHIN THE TOWN OF BUCKEYE, MCDOT, AND ADOT'S TRAFFIC CONTROL MANUAL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE (MOST CURRENT EDITION).
- ALL RETENTION BASINS MUST DRAIN ANY STORM EVENT UP TO AND INCLUDING THE 100 YEAR 2 HOUR STORM WITHIN THIRTY-SIX (36) HOURS OF POST DEVELOPMENT CONSTRUCTION. OWNER(S) OF ANY BASIN FOILING TO MEET THIS REQUIREMENT MUST TAKE CORRECTIVE ACTION TO BRING THE BASIN INTO COMPLIANCE.
- THE CONTRACTOR SHALL NOT DISTURB EXISTING SURVEY MONUMENTS OR BENCHMARKS NOTED ON THE PLANS. REMOVAL AND REPLACEMENT SHALL BE DONE BY AN ARIZONA REGISTERED LAND SURVEYOR ONLY.
- THE CONTRACTOR SHALL HAVE SUFFICIENT MEANS TO PROVIDE DUST CONTROL. DUST SHALL BE CONTROLLED IN ACCORDANCE WITH THE MARICOPA COUNTY ENVIRONMENTAL SERVICES.
- PERIMETER WALL FENCES ORE REQUIRED TO BE COMPACTED NO LESS THAN 90% BY THE CONTRACTOR.
- ARRANGEMENTS FOR CONSTRUCTION WATER CAN BE MADE BY CALLING THE TOWN OF BUCKEYE PUBLIC WORKS DEPARTMENT AT 623-349-6800.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR THE ELIMINATION OF MUD AND DUST ACCUMULATION IN PUBLIC STREETS BY TRUCKS LEAVING THE SITE (TRACK, OUT DEVICES). PUBLIC RIGHT OF WAYS SHALL BE KEPT CLEAN AND FREE OF DEBRIS FROM CONSTRUCTION SITES.
- DISPOSAL OF EXCESS MATERIAL WITHIN THE TOWN'S LIMITS IS PROHIBITED. A USE PERMIT IS REQUIRED FOR DISPOSAL AND/OR STOCKPILING MATERIALS WITHIN A RESIDENTIAL AREA.
- APPROVED CONSTRUCTION PLANS SHALL BE KEPT ON THE JOBSITE AT ALL TIMES. DEVIATION FROM THE PLANS IS NOT ACCEPTABLE UNLESS AN APPROVED PLAN REVISION HAS BEEN GRANTED BY PUBLIC WORKS DEPARTMENT.



PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD  
LANDSCAPE AND TRAIL  
GENERAL NOTES**

ENGINEER INFORMATION  
KIMLEY-HORN AND ASSOCIATES, INC.  
7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL:	FINAL
AS-BUILT SEAL	DESIGN SEAL		



ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>NT01</b>
	SHEET No. <b>2 OF 39</b>
COB PLAN TRACKING #	
COB PERMIT #	

**PLANTING LEGEND**

TREES			
SYMBOL	BOTANICAL NAME / COMMON NAME	QTY	SIZE
	<i>Acacia salicina</i> / Willow Acacia	12	24" Box
	<i>Parkinsonia x 'Desert Museum'</i> / Desert Museum Palo Verde	12	24" Box
	<i>Prosopis chilensis</i> / Chilean Mesquite	18	24" Box
	Existing Tree To Remain		

SHRUBS AND GROUND COVER			
SYMBOL	BOTANICAL NAME / COMMON NAME	QTY	SIZE
	<i>Hesperaloe parviflora</i> / Red Yucca	63	5 gal.
	<i>Lantana camara 'New Gold'</i> / New Gold Lantana	156	5 gal.
	<i>Leucophyllum frutescens 'Compacta'</i> / Compact Texas Ranger	52	5 gal.
	<i>Leucophyllum x 'Heavenly Cloud'</i> / Heavenly Cloud Sage	59	5 gal.
	<i>Nerium oleander 'Petite Pink'</i> / Petite Pink Oleander	36	5 gal.
	<i>Ruellia brittoniana 'Katie'</i> / Katie Ruellia	73	5 gal.
	<i>Ruellia peninsularis</i> / Desert Ruellia	45	5 gal.

HARDSCAPE		
SYMBOL	DESCRIPTION	QTY
	CONCRETE SIDEWALK (TYP); PER MAG STD DTL 230	26,790 SF
	SIDEWALK TRANSITION FROM DETACHED TO ATTACHED (TYP); PER CITY OF BUCKEYE STD DTL 63238	N/A
	DECOMPOSED GRANITE: 3/4" SCREENED; COLOR TO BE 'SUNDANCE BLEND'; REFER TO DETAIL 4 ON SHEET LS14 FOR THICKNESS	10,175 SY

**TREE INVENTORY**

TAG #	BOTANICAL NAME	COMMON NAME	SPREAD	CONDITION	S/NS	DESIGNATION		
						S	P	D
1	<i>Parkinsonia spp.</i>	Palo Verde	25'	Healthy	S		X	
2	<i>Parkinsonia spp.</i>	Palo Verde	30'	Healthy	S		X	
3	<i>Prosopis chilensis</i>	Chilean Mesquite	30'	Healthy	S		X	
4	<i>Prosopis chilensis</i>	Chilean Mesquite	25'	Healthy	S		X	
5	<i>Prosopis chilensis</i>	Chilean Mesquite	15'	Healthy	S		X	
6	<i>Parkinsonia spp.</i>	Palo Verde	35'	Healthy	S		X	
7	<i>Acacia willardiana</i>	Willow Acacia	12'	Healthy	S		X	
8	<i>Prosopis chilensis</i>	Chilean Mesquite	30'	Healthy	S		X	
9	<i>Prosopis chilensis</i>	Chilean Mesquite	30'	Healthy	S		X	
10	<i>Prosopis chilensis</i>	Chilean Mesquite	15'	Healthy	S		X	
11	<i>Acacia willardiana</i>	Willow Acacia	12'	Healthy	S		X	
12	<i>Acacia willardiana</i>	Willow Acacia	15'	Healthy	S		X	
13	<i>Prosopis chilensis</i>	Chilean Mesquite	20'	Healthy	S		X	
14	<i>Prosopis chilensis</i>	Chilean Mesquite	16'	Healthy	S		X	
15	<i>Prosopis chilensis</i>	Chilean Mesquite	12'	Healthy	S		X	
16	<i>Acacia willardiana</i>	Willow Acacia	12'	Healthy	S		X	
17	<i>Prosopis chilensis</i>	Chilean Mesquite	25'	Healthy	S		X	
18	<i>Parkinsonia spp.</i>	Palo Verde	25'	Healthy	S		X	
19	<i>Parkinsonia spp.</i>	Palo Verde	18'	Healthy	S		X	
20	<i>Parkinsonia spp.</i>	Palo Verde	15'	Healthy	S		X	
21	<i>Parkinsonia spp.</i>	Palo Verde	15'	Healthy	S		X	
22	<i>Parkinsonia spp.</i>	Palo Verde	15'	Healthy	S		X	
23	<i>Prosopis chilensis</i>	Chilean Mesquite	15'	Healthy	S		X	
24	<i>Parkinsonia spp.</i>	Palo Verde	15'	Healthy	S		X	
25	<i>Parkinsonia spp.</i>	Palo Verde	15'	Healthy	S		X	
26	<i>Parkinsonia spp.</i>	Palo Verde	15'	Healthy	S		X	
27	<i>Prosopis chilensis</i>	Chilean Mesquite	30'	Healthy	S		X	
28	<i>Prosopis chilensis</i>	Chilean Mesquite	30'	Healthy	S		X	
29	<i>Prosopis chilensis</i>	Chilean Mesquite	20'	Healthy	S		X	
30	<i>Acacia willardiana</i>	Willow Acacia	12'	Healthy	S		X	
31	<i>Acacia willardiana</i>	Willow Acacia	16'	Healthy	S		X	
32	<i>Acacia willardiana</i>	Willow Acacia	20'	Healthy	S		X	
33	<i>Prosopis chilensis</i>	Chilean Mesquite	25'	Healthy	S		X	
34	<i>Acacia willardiana</i>	Willow Acacia	16'	Healthy	S		X	
35	<i>Acacia willardiana</i>	Willow Acacia	16'	Healthy	S		X	
36	<i>Prosopis chilensis</i>	Chilean Mesquite	20'	Healthy	S		X	
37	<i>Prosopis chilensis</i>	Chilean Mesquite	20'	Healthy	S		X	
38	<i>Parkinsonia spp.</i>	Palo Verde	20'	Healthy	S		X	
39	<i>Parkinsonia spp.</i>	Palo Verde	20'	Healthy	S		X	
40	<i>Parkinsonia spp.</i>	Palo Verde	20'	Healthy	S		X	
41	<i>Prosopis chilensis</i>	Chilean Mesquite	25'	Healthy	S		X	
42	<i>Prosopis chilensis</i>	Chilean Mesquite	25'	Healthy	S		X	
43	<i>Prosopis chilensis</i>	Chilean Mesquite	25'	Healthy	S		X	
44	<i>Parkinsonia spp.</i>	Palo Verde	20'	Healthy	S		X	
45	<i>Acacia willardiana</i>	Willow Acacia	12'	Healthy	S		X	
46	<i>Acacia willardiana</i>	Willow Acacia	12'	Healthy	S		X	
47	<i>Acacia willardiana</i>	Willow Acacia	18'	Healthy	S		X	
48	<i>Acacia willardiana</i>	Willow Acacia	12'	Healthy	S		X	
49	<i>Prosopis chilensis</i>	Chilean Mesquite	20'	Healthy	S		X	
50	<i>Prosopis chilensis</i>	Chilean Mesquite	12'	Healthy	S		X	
51	<i>Acacia willardiana</i>	Willow Acacia	12'	Healthy	S		X	
52	<i>Acacia willardiana</i>	Willow Acacia	12'	Healthy	S		X	
53	<i>Acacia willardiana</i>	Willow Acacia	20'	Healthy	S		X	
54	<i>Acacia willardiana</i>	Willow Acacia	16'	Healthy	S		X	
55	<i>Acacia willardiana</i>	Willow Acacia	16'	Healthy	S		X	
56	<i>Parkinsonia spp.</i>	Palo Verde	20'	Healthy	S		X	
57	<i>Parkinsonia spp.</i>	Palo Verde	20'	Healthy	S		X	
58	<i>Parkinsonia spp.</i>	Palo Verde	15'	Healthy	S		X	
59	<i>Parkinsonia spp.</i>	Palo Verde	20'	Healthy	S		X	
60	<i>Parkinsonia spp.</i>	Palo Verde	25'	Healthy	S		X	
61	<i>Parkinsonia spp.</i>	Palo Verde	12'	Healthy	S		X	
62	<i>Parkinsonia spp.</i>	Palo Verde	16'	Healthy	S		X	
63	<i>Parkinsonia spp.</i>	Palo Verde	12'	Healthy	S		X	
64	<i>Parkinsonia spp.</i>	Palo Verde	18'	Healthy	S		X	
65	<i>Acacia willardiana</i>	Willow Acacia	12'	Healthy	S		X	
66	<i>Parkinsonia spp.</i>	Palo Verde	20'	Healthy	S		X	
67	<i>Acacia willardiana</i>	Willow Acacia	12'	Healthy	S		X	
68	<i>Acacia willardiana</i>	Willow Acacia	12'	Healthy	S		X	
69	<i>Dalbergia sissoo</i>	Indian Rosewood	20'	Healthy	S		X	
70	<i>Dalbergia sissoo</i>	Indian Rosewood	20'	Healthy	S		X	
71	<i>Acacia willardiana</i>	Willow Acacia	16'	Healthy	S		X	
72	<i>Prosopis chilensis</i>	Chilean Mesquite	18'	Healthy	S		X	
73	<i>Acacia willardiana</i>	Willow Acacia	20'	Healthy	S		X	
74	<i>Prosopis chilensis</i>	Chilean Mesquite	20'	Healthy	S		X	
75	<i>Prosopis chilensis</i>	Chilean Mesquite	15'	Healthy	S		X	
76	<i>Prosopis chilensis</i>	Chilean Mesquite	20'	Healthy	S		X	
77	<i>Prosopis chilensis</i>	Chilean Mesquite	20'	Healthy	S		X	
78	<i>Acacia willardiana</i>	Willow Acacia	18'	Healthy	S		X	
79	<i>Acacia willardiana</i>	Willow Acacia	18'	Healthy	S		X	
80	<i>Parkinsonia spp.</i>	Palo Verde	12'	Healthy	S		X	
81	<i>Prosopis chilensis</i>	Chilean Mesquite	12'	Healthy	S		X	
82	<i>Parkinsonia spp.</i>	Palo Verde	12'	Healthy	S		X	
83	<i>Parkinsonia spp.</i>	Palo Verde	12'	Healthy	S		X	
84	<i>Parkinsonia spp.</i>	Palo Verde	12'	Healthy	S		X	
85	<i>Parkinsonia spp.</i>	Palo Verde	12'	Healthy	S		X	

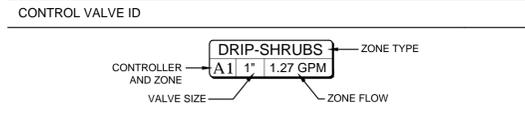
KEY:  
 S/NS - Salvageable/Non-Salvageable  
 S - Salvage  
 P - Preserve in Place  
 D - Destroy

**IRRIGATION LEGEND**

MATERIALS AND EQUIPMENT		
MANUFACTURER / MODEL / DESCRIPTION	QTY	
	Existing Irrigation Meter and Backflow Preventer	-
	HUNTER XCH-1200-SS, 12-Station controller in Stainless Steel Enclosure; XCHSPOLE with XCHSPB mounting pole and bracket; SPXCH Solar panel kit (mounts to stainless steel enclosure); and (1) latching type solenoid per control valve. Install per manufacturer's specifications.	1
	HUNTER MINI-CLIK-C Rain Sensor with SG-MC Stainless Steel Sensor Guard.	1
	HUNTER PCZ-101-40 Drip Control Valve Kit (with 1" Valve, Filter and 40 PSI regulator); Install one valve per box per rectangular box, min. 12" clearance between valves. Install 1" bronze angle-type shut-off valve immediately upstream of control valve (see detail).	8
	Lateral Flush End Cap (in box)	34
	DRIP EMISSION DEVICES [as specified or equal]: Trees: Bowsmith ML210 Multi-outlet emitter (1) per tree, 6 outlets open, 12.0 GPHM per tree Shrubs: Bowsmith SL210 Single-outlet emitter (1) per shrub, 1.0 GPH per shrub	AS NEEDED

SLEEVE SCHEDULE	
SIZE / DESCRIPTION	
--- SCH 40 PVC Sleeve (size noted on plan) / Spears or equal	2": 198 LF
--- All pipe beneath pavement shall be sleeved	4": 62 LF

PIPE SCHEDULE	
SIZE AND DESCRIPTION	QTY
--- EXST 1-1/2" SCH 40 PVC Mainline Located approx. 13' from back of curb	-
T --- SCH 40 PVC Tree Lateral, 3/4"	3,315 LF
S --- SCH 40 PVC Shrub Lateral, 3/4"	6,560 LF



NOTES

PIPE SIZING PROVIDED FOR CONVENIENCE; CONTRACTOR SHALL ENSURE FLOW VELOCITY THROUGH MAINLINE AND LATERALS DOES NOT EXCEED 5.0 FPS.

IRRIGATION SYSTEM COMPONENTS AND SIZING ARE BASED ON AN ASSUMED MINIMUM AVAILABLE STATIC PRESSURE OF 60 P.S.I. CONTRACTOR SHALL FIELD TEST AVAILABLE PRESSURE PRIOR TO INSTALLATION AND NOTIFY OWNER AND LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCY.

ALL VALVES SHALL BE CONNECTED TO EXISTING IRRIGATION MAINLINE, AND CONNECTED TO NEW CONTROLLER WITH EXISTING IRRIGATION WIRING.

IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE OF LANDSCAPE AREAS FOR CLARITY ONLY. ALL COMPONENTS AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS UNLESS SLEEVED BENEATH PAVEMENT.

REVISIONS:

1
2
3

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

PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD**

MATERIALS LEGENDS

ENGINEER INFORMATION KIMLEY-HORN AND ASSOCIATES, INC. 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020 PHONE:(602)944-5500, FAX:(602)944-7423	SUBMITTAL: <b>FINAL</b>
COB PERMITTING APPROVED SEAL	
COB ENGINEERING APPROVED SEAL	COB PLAN TRACKING #
AS-BUILT SEAL	
DESIGN SEAL  Expires 03/31/2016	COB PERMIT #
ORIGINAL PLAN DATE MARCH 12, 2015	
PROJECT No.	SHEET ID. <b>NT02</b>
SHEET No. <b>3 OF 39</b>	

**GRADING / LAYOUT LEGEND**

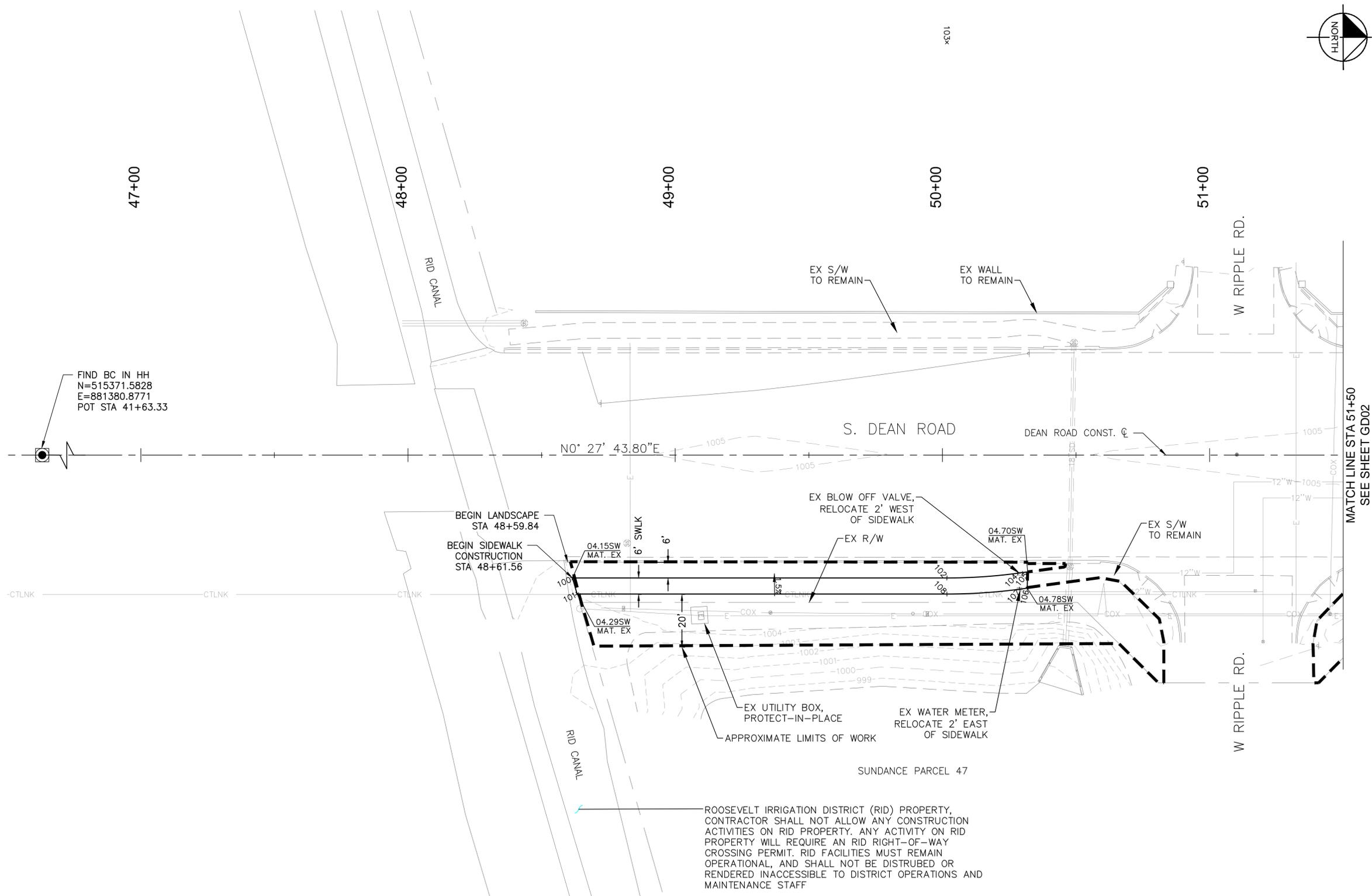
SYMBOL	DESCRIPTION
SW	- SIDEWALK
PC	- POINT OF CURVATURE
PCC	- POINT OF COMPOUND CURVATURE
PRC	- POINT OF REVERSE CURVATURE
PT	- POINT OF TANGENCY
RAD	- RADIUS POINT
MAT. EX	- MATCH EXISTING
x <sub>274</sub>	- HORIZONTAL CONTROL POINT
1.5%	- SLOPE
30.10SW	- SPOT ELEVATION

NOTE: SEE SHEET GD12 FOR HORIZONTAL CONTROL LAYOUT POINT TABLES.

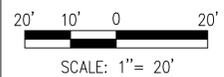
**EARTHWORK QUANTITIES FOR THE PROJECT LIMITS**

CUT 532 CY  
 FILL 626 CY  
 NET FILL 94 CY

NOTE: THE EARTHWORK QUANTITIES HAVE BEEN PROVIDED FOR ENGINEERING QUANTITY PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY QUANTITIES OF EARTHWORK INCLUDING EXCAVATION, BORROW, EMBANKMENT, SHRINK, OR SWELL, GROUND COMPACTION, HAUL AND ANY OTHER ITEMS SHOWN ON THE CONSTRUCTION DOCUMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OR LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION, OF ANY MAJOR DISCREPANCIES.



FIND BC IN HH  
 N=515371.5828  
 E=881380.8771  
 POT STA 41+63.33



**PLAN NAME**  
**DEAN ROAD: RID CANAL TO YUMA RD**  
**GRADING / DRAINAGE AND**  
**LAYOUT PLAN**

**ENGINEER INFORMATION**  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: FINAL
AS-BUILT SEAL	DESIGN SEAL	



ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>GD01</b>
SHEET No. <b>4 OF 39</b>	COB PERMIT #

REVISIONS:

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**GRADING / LAYOUT LEGEND**

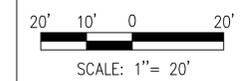
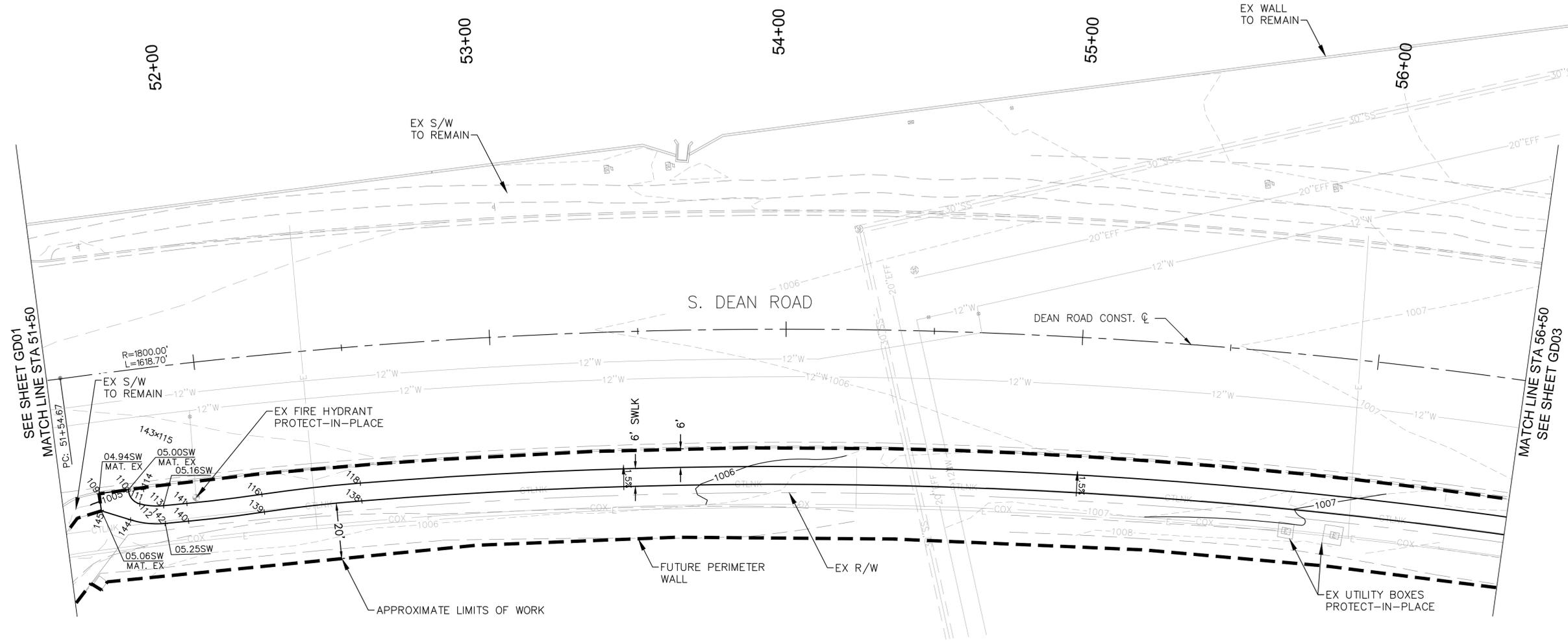
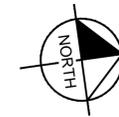
SYMBOL	DESCRIPTION
SW	- SIDEWALK
PC	- POINT OF CURVATURE
PCC	- POINT OF COMPOUND CURVATURE
PRC	- POINT OF REVERSE CURVATURE
PT	- POINT OF TANGENCY
RAD	- RADIUS POINT
MAT. EX	- MATCH EXISTING
x.274	- HORIZONTAL CONTROL POINT
1.5%	- SLOPE
30.10SW	- SPOT ELEVATION

NOTE: SEE SHEET GD12 FOR HORIZONTAL CONTROL LAYOUT POINT TABLES.

**EARTHWORK QUANTITIES FOR THE PROJECT LIMITS**

CUT 532 CY  
FILL 626 CY  
NET FILL 94 CY

NOTE: THE EARTHWORK QUANTITIES HAVE BEEN PROVIDED FOR ENGINEERING QUANTITY PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY QUANTITIES OF EARTHWORK INCLUDING EXCAVATION, BORROW, EMBANKMENT, SHRINK, OR SWELL, GROUND COMPACTION, HAUL AND ANY OTHER ITEMS SHOWN ON THE CONSTRUCTION DOCUMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OR LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION, OF ANY MAJOR DISCREPANCIES.



SUNDANCE PARCEL 47

SEE SHEET GD01  
MATCH LINE STA 51+50

MATCH LINE STA 56+50  
SEE SHEET GD03

REVISIONS:

1	
2	
3	



**PLAN NAME**  
**DEAN ROAD: RID CANAL TO YUMA RD**  
**GRADING / DRAINAGE AND LAYOUT PLAN**

**ENGINEER INFORMATION**  
KIMLEY-HORN AND ASSOCIATES, INC.  
7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE	COB PLAN TRACKING #
PROJECT No. <b>GD02</b>	SHEET ID. <b>5</b> OF 39 SHEET No.	



**GRADING / LAYOUT LEGEND**

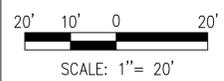
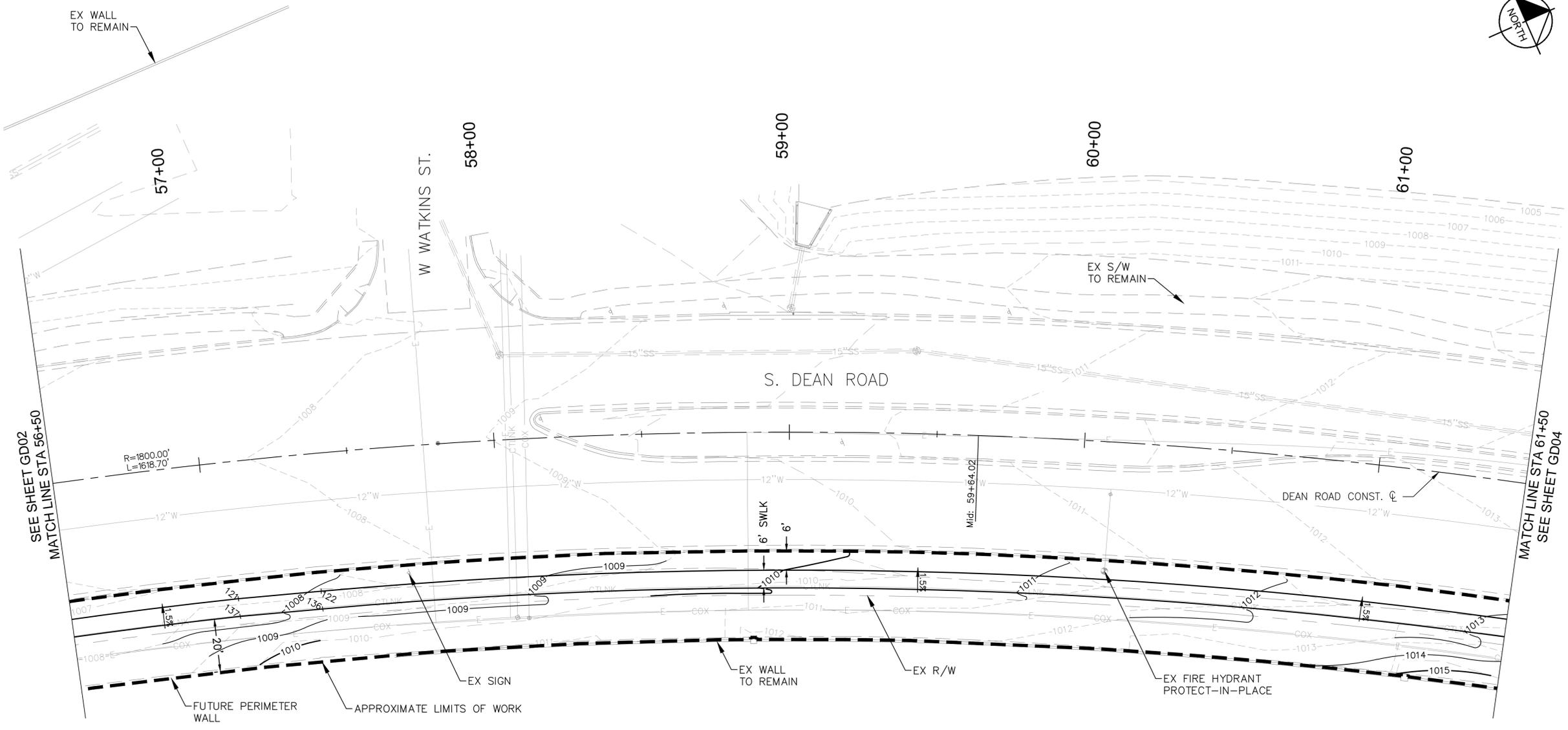
SYMBOL	DESCRIPTION
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1.5%	- SLOPE
30.10SW	- SPOT ELEVATION

NOTE: SEE SHEET GD12 FOR HORIZONTAL CONTROL LAYOUT POINT TABLES.

**EARTHWORK QUANTITIES FOR THE PROJECT LIMITS**

CUT 532 CY  
FILL 626 CY  
NET FILL 94 CY

NOTE: THE EARTHWORK QUANTITIES HAVE BEEN PROVIDED FOR ENGINEERING QUANTITY PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY QUANTITIES OF EARTHWORK INCLUDING EXCAVATION, BORROW, EMBANKMENT, SHRINK, OR SWELL, GROUND COMPACTION, HAUL AND ANY OTHER ITEMS SHOWN ON THE CONSTRUCTION DOCUMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OR LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION, OF ANY MAJOR DISCREPANCIES.



SUNDANCE PARCEL 47

REVISIONS:

1	
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PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD  
GRADING / DRAINAGE AND  
LAYOUT PLAN**

ENGINEER INFORMATION  
KIMLEY-HORN AND ASSOCIATES, INC.  
7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL 	
ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE	COB PLAN TRACKING #
PROJECT No. <b>GD03</b>	SHEET ID. <b>6</b> SHEET No. <b>OF 39</b>	COB PERMIT #



**GRADING / LAYOUT LEGEND**

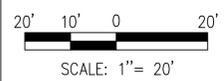
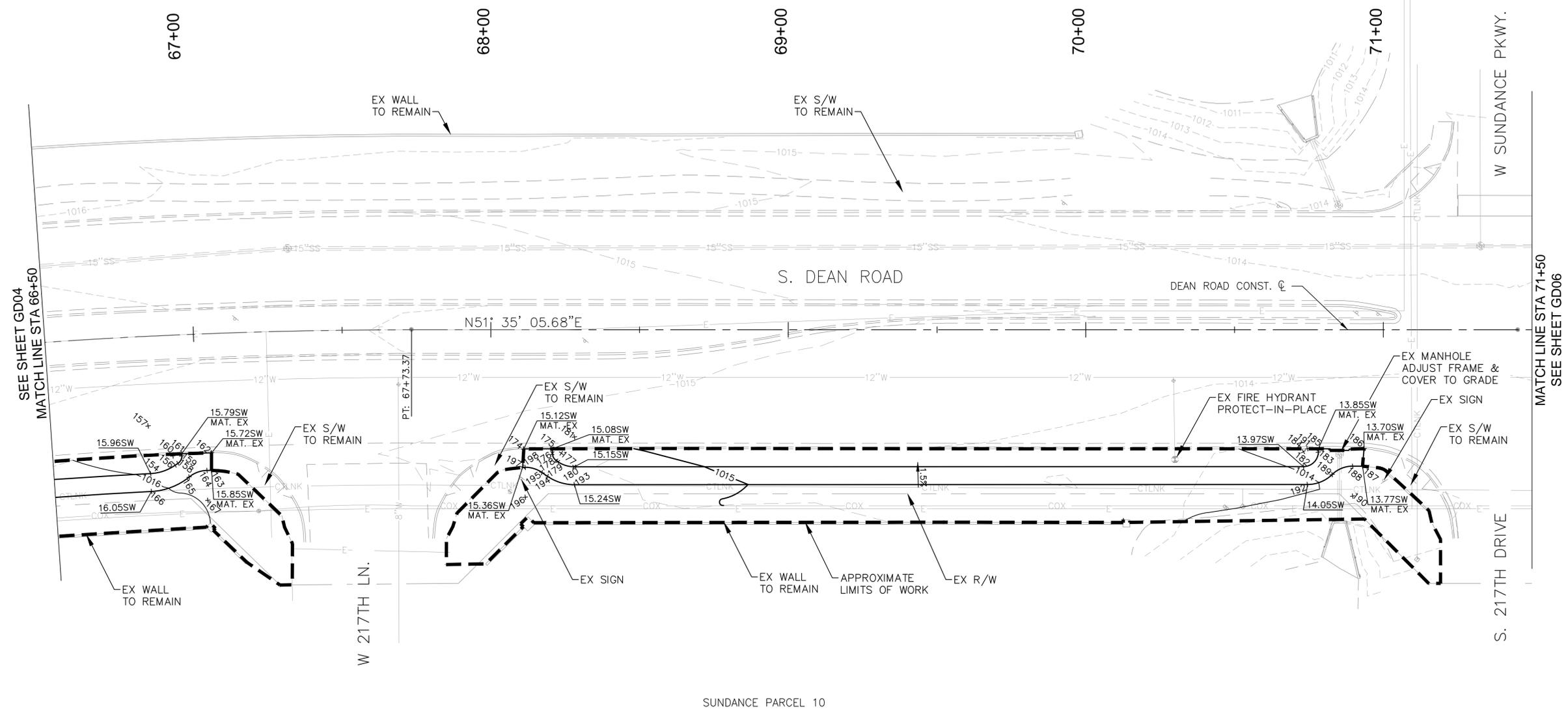
SYMBOL	DESCRIPTION
SW	- SIDEWALK
PC	- POINT OF CURVATURE
PCC	- POINT OF COMPOUND CURVATURE
PRC	- POINT OF REVERSE CURVATURE
PT	- POINT OF TANGENCY
RAD	- RADIUS POINT
MAT. EX	- MATCH EXISTING
x <sub>274</sub>	- HORIZONTAL CONTROL POINT
1.5%	- SLOPE
30.10SW	- SPOT ELEVATION

NOTE: SEE SHEET GD12 FOR HORIZONTAL CONTROL LAYOUT POINT TABLES.

**EARTHWORK QUANTITIES FOR THE PROJECT LIMITS**

CUT 532 CY  
FILL 626 CY  
NET FILL 94 CY

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PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD  
GRADING / DRAINAGE AND  
LAYOUT PLAN**

ENGINEER INFORMATION  
KIMLEY-HORN AND ASSOCIATES, INC.  
7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL	



REVISIONS:

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ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. SHEET No. <b>GD05 8 OF 39</b>

**GRADING / LAYOUT LEGEND**

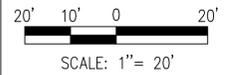
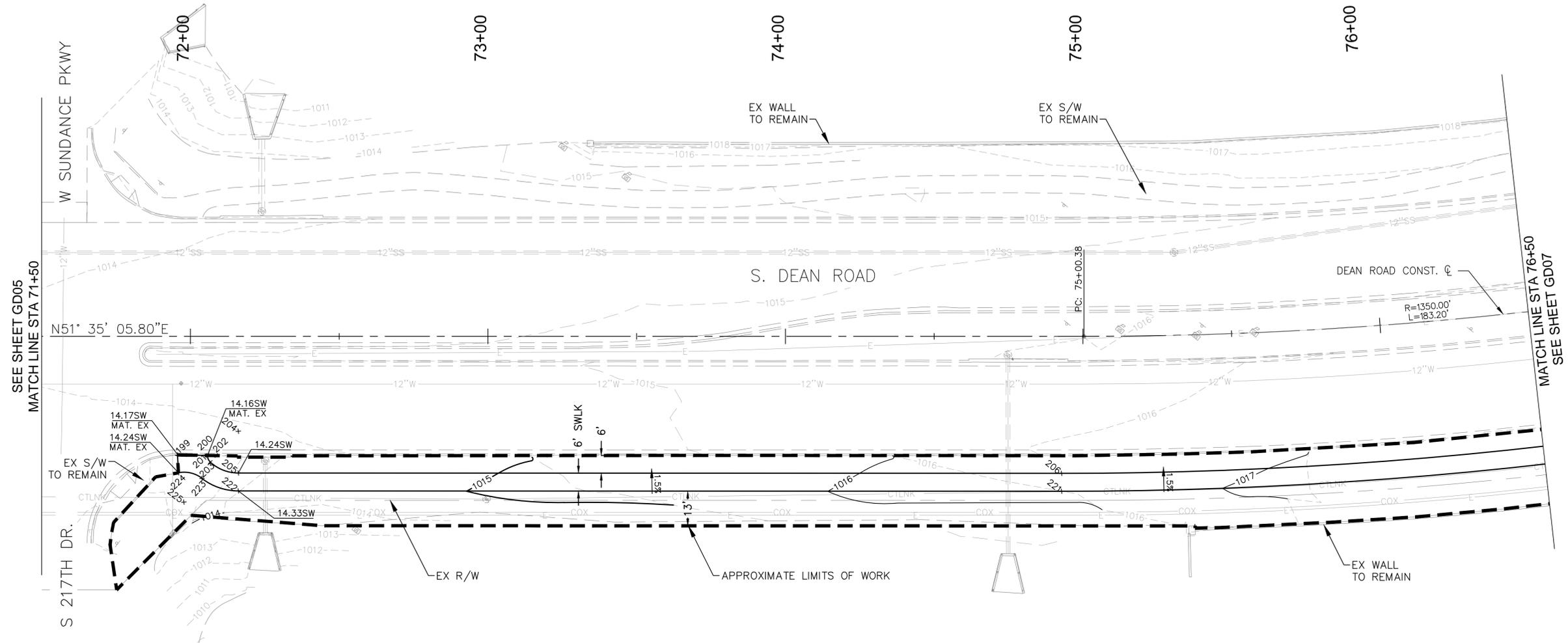
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MAT. EX	- MATCH EXISTING
x274	- HORIZONTAL CONTROL POINT
1.5%	- SLOPE
30.10SW	- SPOT ELEVATION

NOTE: SEE SHEET GD12 FOR HORIZONTAL CONTROL LAYOUT POINT TABLES.

**EARTHWORK QUANTITIES FOR THE PROJECT LIMITS**

CUT 532 CY  
 FILL 626 CY  
 NET FILL 94 CY

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SUNDANCE PARCEL 48

REVISIONS:

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PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD  
 GRADING / DRAINAGE AND  
 LAYOUT PLAN**

ENGINEER INFORMATION  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL  
 COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL  
 DESIGN SEAL



ORIGINAL PLAN DATE  
 MARCH 12, 2015

LATEST REVISION DATE

PROJECT No. SHEET ID. SHEET No.  
**GD06 9 OF 39**

SUBMITTAL: **FINAL**

COB PLAN TRACKING #

COB PERMIT #

**GRADING / LAYOUT LEGEND**

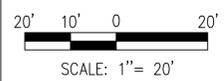
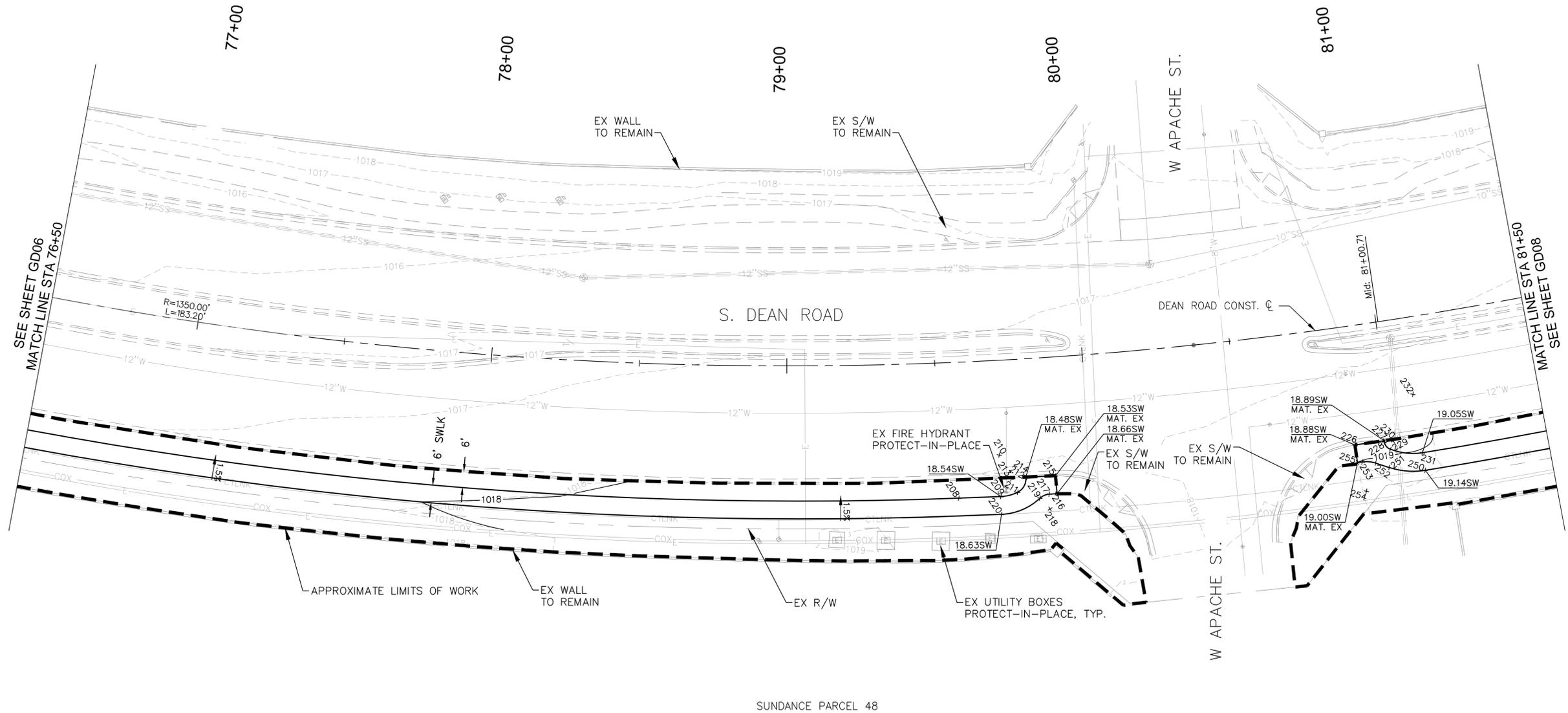
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MAT. EX	- MATCH EXISTING
x <sub>274</sub>	- HORIZONTAL CONTROL POINT
1.5%	- SLOPE
30.10SW	- SPOT ELEVATION

NOTE: SEE SHEET GD12 FOR HORIZONTAL CONTROL LAYOUT POINT TABLES.

**EARTHWORK QUANTITIES FOR THE PROJECT LIMITS**

CUT 532 CY  
 FILL 626 CY  
 NET FILL 94 CY

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PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD  
 GRADING / DRAINAGE AND  
 LAYOUT PLAN**

ENGINEER INFORMATION  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL	



REVISIONS:

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ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>GD07</b> SHEET No. <b>10 OF 39</b>

**GRADING / LAYOUT LEGEND**

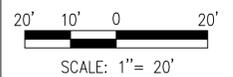
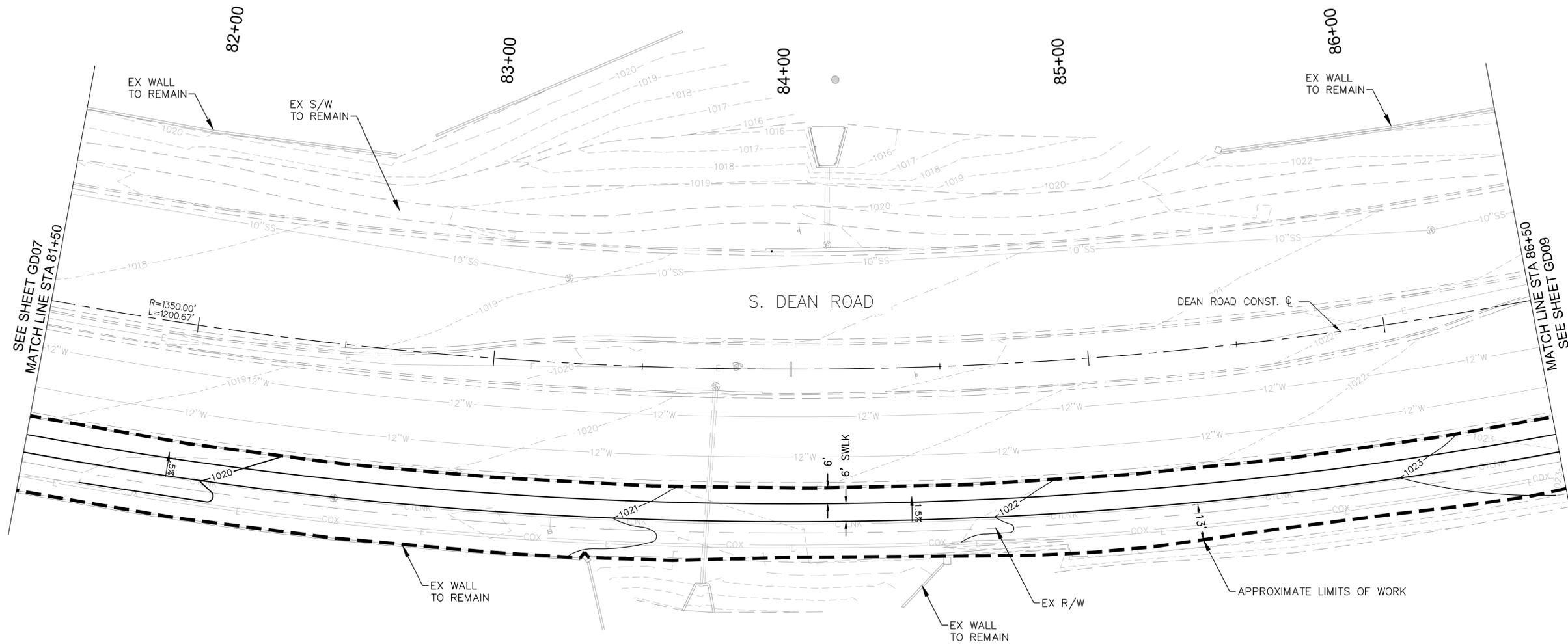
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PT	- POINT OF TANGENCY
RAD	- RADIUS POINT
MAT. EX	- MATCH EXISTING
x <sub>274</sub>	- HORIZONTAL CONTROL POINT
1.5%	- SLOPE
30.10SW	- SPOT ELEVATION

NOTE: SEE SHEET GD12 FOR HORIZONTAL CONTROL LAYOUT POINT TABLES.

**EARTHWORK QUANTITIES FOR THE PROJECT LIMITS**

CUT 532 CY  
 FILL 626 CY  
 NET FILL 94 CY

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**PLAN NAME**  
**DEAN ROAD: RID CANAL TO YUMA RD**  
**GRADING / DRAINAGE AND**  
**LAYOUT PLAN**

**ENGINEER INFORMATION**  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>

ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No. <b>GD08</b>	SHEET ID. <b>11</b> OF <b>39</b>

REVISIONS:

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**GRADING / LAYOUT LEGEND**

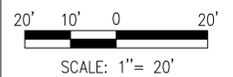
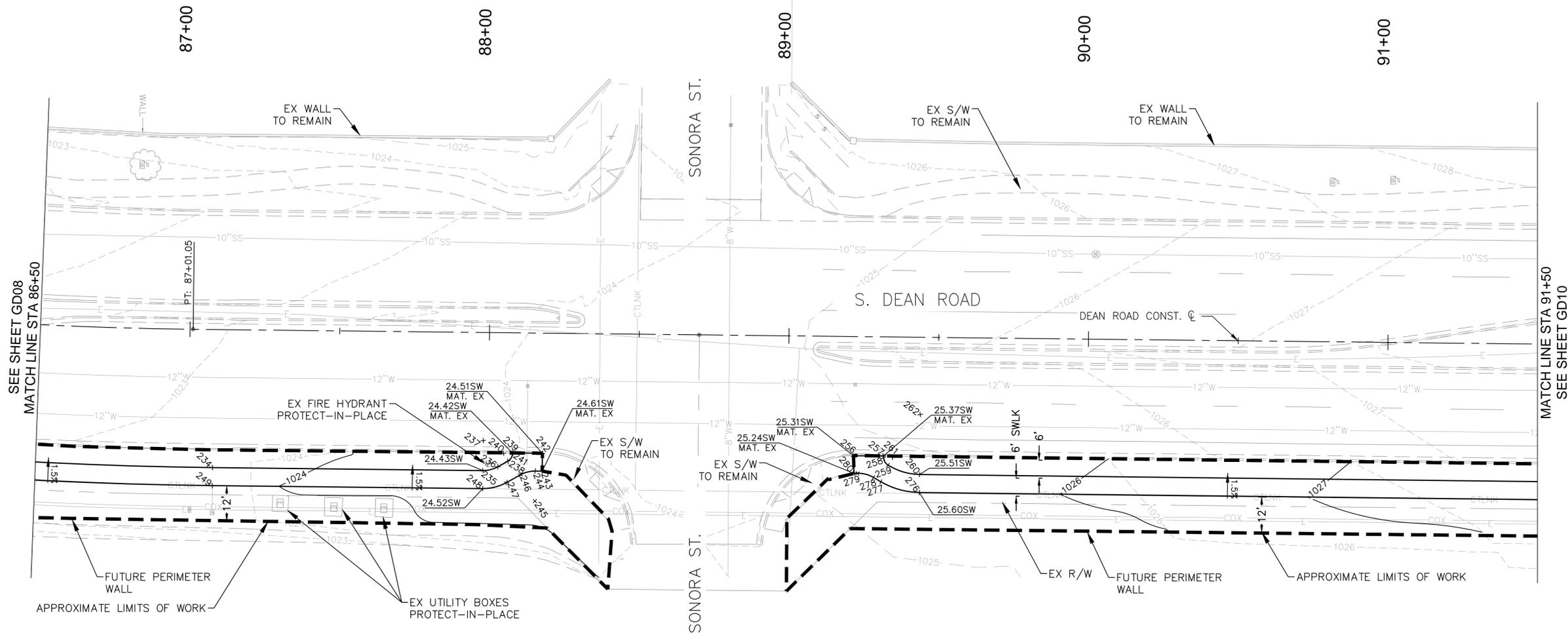
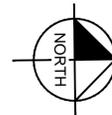
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**EARTHWORK QUANTITIES FOR THE PROJECT LIMITS**

CUT 532 CY  
FILL 626 CY  
NET FILL 94 CY

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PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD  
GRADING / DRAINAGE AND  
LAYOUT PLAN**

ENGINEER INFORMATION  
KIMLEY-HORN AND ASSOCIATES, INC.  
7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>

AS-BUILT SEAL	DESIGN SEAL	COB PLAN TRACKING # COB PERMIT #

ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. SHEET No. <b>GD09 12 OF 39</b>

REVISIONS:

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SUNDANCE PARCEL 49A

**GRADING / LAYOUT LEGEND**

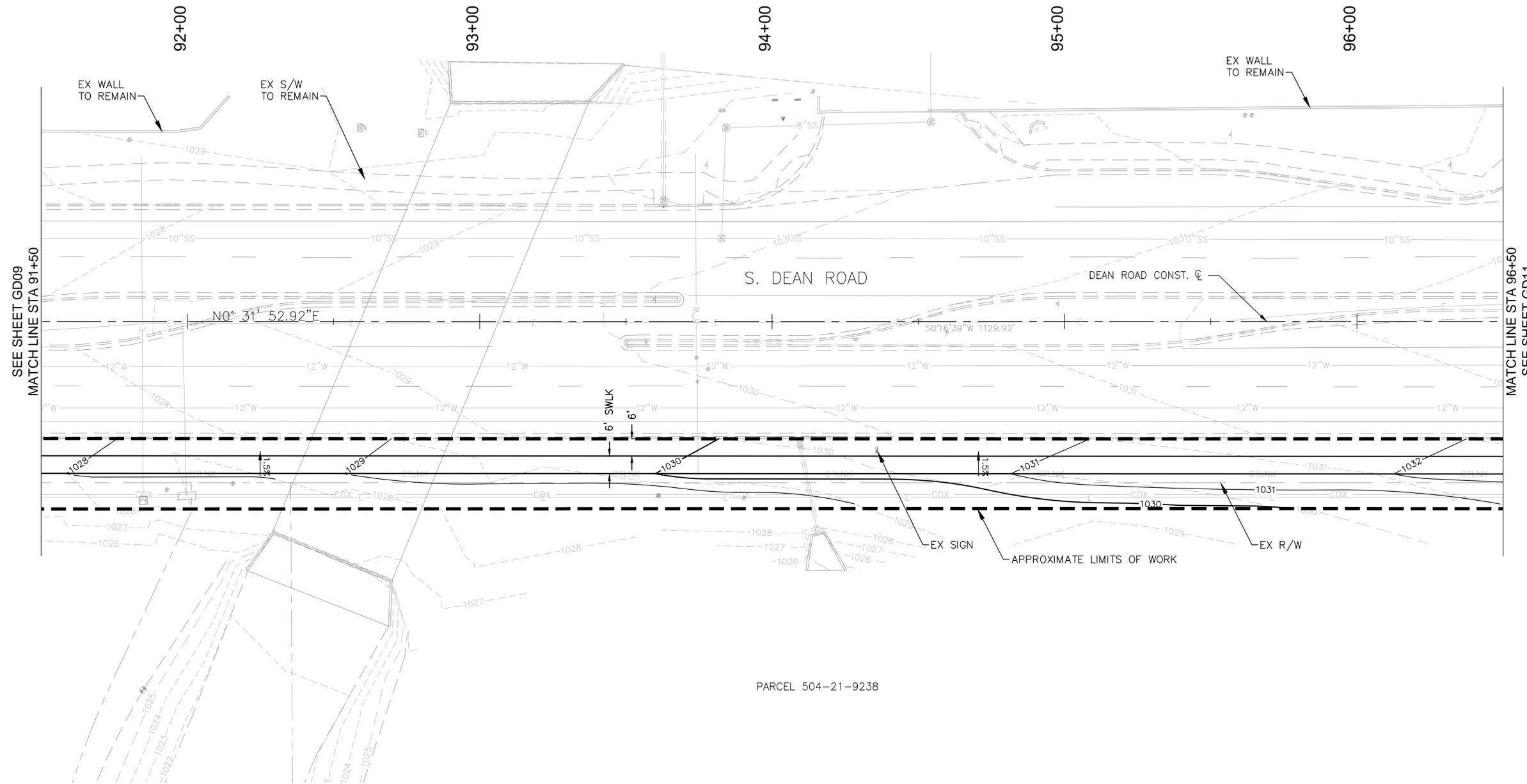
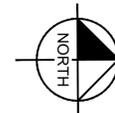
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1.5%	- SLOPE
30.10SW	- SPOT ELEVATION

NOTE: SEE SHEET GD12 FOR HORIZONTAL CONTROL LAYOUT POINT TABLES.

**EARTHWORK QUANTITIES FOR THE PROJECT LIMITS**

CUT 532 CY  
FILL 626 CY  
NET FILL 94 CY

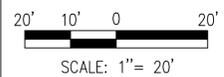
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SEE SHEET GD09  
MATCH LINE STA 91+50

MATCH LINE STA 96+50  
SEE SHEET GD11

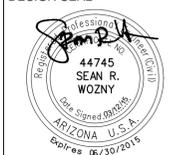
PARCEL 504-21-9238



**PLAN NAME**  
**DEAN ROAD: RID CANAL TO YUMA RD**  
**GRADING / DRAINAGE AND LAYOUT PLAN**

**ENGINEER INFORMATION**  
KIMLEY-HORN AND ASSOCIATES, INC.  
7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>



**REVISIONS:**

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ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>GD10</b> SHEET No. <b>13 OF 39</b>

COB PLAN TRACKING #  
COB PERMIT #

**GRADING / LAYOUT LEGEND**

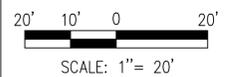
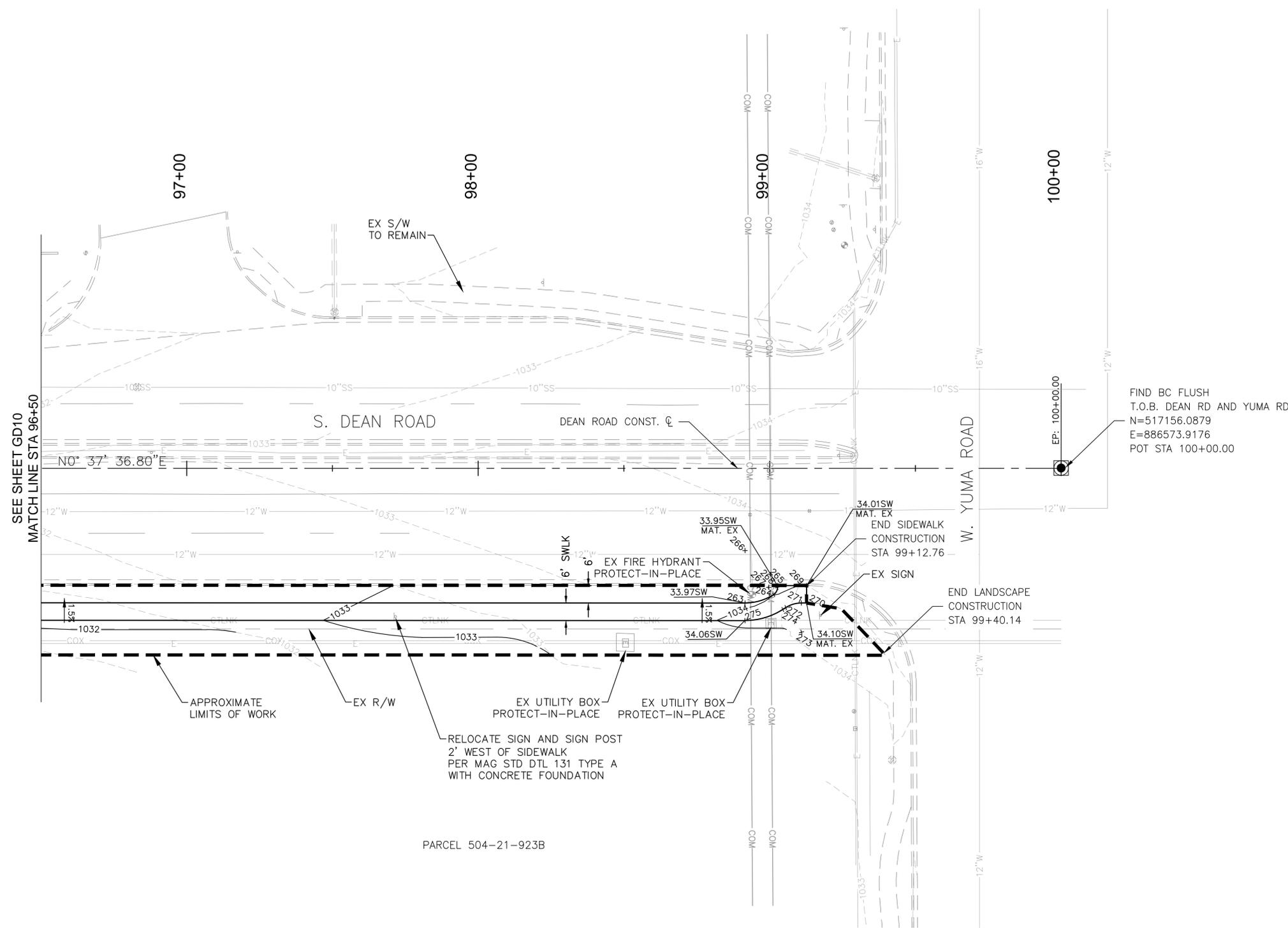
SYMBOL	DESCRIPTION
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PC	- POINT OF CURVATURE
PCC	- POINT OF COMPOUND CURVATURE
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PT	- POINT OF TANGENCY
RAD	- RADIUS POINT
MAT. EX	- MATCH EXISTING
x <sub>274</sub>	- HORIZONTAL CONTROL POINT
1.5%	- SLOPE
30.10SW	- SPOT ELEVATION

NOTE: SEE SHEET GD12 FOR HORIZONTAL CONTROL LAYOUT POINT TABLES.

**EARTHWORK QUANTITIES FOR THE PROJECT LIMITS**

CUT 532 CY  
FILL 626 CY  
NET FILL 94 CY

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**PLAN NAME**  
**DEAN ROAD: RID CANAL TO YUMA RD**  
**GRADING / DRAINAGE AND LAYOUT PLAN**

**ENGINEER INFORMATION**  
KIMLEY-HORN AND ASSOCIATES, INC.  
7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL	



ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>GD11</b>
SHEET No. <b>14</b>	OF <b>39</b>

REVISIONS:

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**GRADING / LAYOUT LEGEND**

SYMBOL	DESCRIPTION
SW	- SIDEWALK
PC	- POINT OF CURVATURE
PCC	- POINT OF COMPOUND CURVATURE
PRC	- POINT OF REVERSE CURVATURE
PT	- POINT OF TANGENCY
RAD	- RADIUS POINT
MAT. EX	- MATCH EXISTING
$\times_{274}$	- HORIZONTAL CONTROL POINT
$\frac{1.5\%}{\text{SLOPE}}$	- SLOPE
$\square_{30.10SW}$	- SPOT ELEVATION

NOTE: SEE SHEET GD12 FOR HORIZONTAL CONTROL LAYOUT POINT TABLES.

**EARTHWORK QUANTITIES FOR THE PROJECT LIMITS**

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FILL 626 CY  
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Point Table				
Point #	Elevation	Northing	Easting	Description
100		882078.46	515423.08	SW
164		883700.73	516036.58	SW PC
108		882218.55	515430.22	SW PT
101		882080.13	515429.09	SW
102		882218.60	515424.22	SW PC
103		882220.22	515224.22	RAD 200'
104		882245.08	515422.67	SW PT
105		882248.84	515422.20	SW
106		882248.62	515428.28	SW
107		882245.83	515428.63	SW PC
109		882379.57	515419.61	SW
110		882389.57	515419.61	SW
111		882389.57	515420.30	SW PC
112		882392.73	515424.93	SW PCC
113		882400.57	515426.61	SW PT
114		882394.57	515420.29	RAD 5'
115		882401.58	515402.63	RAD 24'
116		882433.88	515427.36	SW PRC
117		882429.49	514927.38	RAD 500'
118		882467.28	515428.18	SW PCC
119		882438.26	515927.34	RAD 500'
120		882364.11	517203.19	RAD 1778'
121		882902.74	515508.74	PT
122		882929.38	515517.73	PC
123		882360.72	517202.34	RAD 1778'
124		883368.21	515737.33	SW PRC
125		883381.90	515717.62	RAD 24'
126		883374.37	515740.41	SW PCC
127		883375.94	515735.66	RAD 5'
128		883380.01	515738.56	SW PT
129		883380.16	515738.35	SW
130		883388.28	515744.12	SW
131		883384.78	515749.09	SW
132		883379.43	515757.53	RAD 10'
133		883380.04	515747.55	SW PRC
134		883381.89	515717.61	RAD 30
135		883364.89	515742.33	SW PRC
136		882927.46	515523.42	SW PT
137		882900.92	515514.46	SW PC
138		882466.93	515434.17	SW PCC

Point Table				
Point #	Elevation	Northing	Easting	Description
139		882433.93	515433.36	SW PRC
140		882408.19	515432.93	SW PT
141		882408.44	515426.94	SW PC
142		882400.32	515432.60	SW PC
143		882401.58	515402.63	RAD 24'
144		882388.91	515429.82	SW PT
145		882379.59	515425.48	SW
146		883472.72	515807.74	SW
147		883480.49	515814.04	SW
148		883480.20	515814.41	SW
149		883479.94	515816.47	SW PT
150		883481.77	515815.65	RAD 2'
151		883481.70	515820.38	SW PC
152		883499.94	515812.18	RAD 20'
153		883487.19	515827.59	SW PT
154		883688.11	516022.36	SW PRC
155		882351.82	517199.77	RAD 1781'
156		883695.42	516027.08	SW PT
157		883700.11	516011.79	RAD 10'
158		883696.52	516027.42	SW PC
159		883699.27	516026.90	SW PT
160		883697.41	516024.55	RAD 3'
161		883699.84	516026.45	SW
162		883706.31	516034.08	SW
163		883701.70	516037.74	SW
165		883695.26	516033.25	SW PRC
166		884191.46	516026.33	SW PT
167		883693.06	516043.00	RAD 10'
168		883483.37	515832.21	SW PRC
169		883476.23	515822.84	SW PT
170		883474.29	515818.53	SW PC
171		883461.52	515824.27	RAD 14'
172		883470.33	515813.39	SW PT
173		883469.07	515812.37	SW
174		883772.55	516115.51	SW
175		883778.54	516123.02	SW
176		883777.36	516123.95	SW PC
177		883776.24	516126.52	SW PT
178		883779.23	516126.30	RAD 3'
179		883776.28	516127.07	SW PC

Point Table				
Point #	Elevation	Northing	Easting	Description
180		883778.42	516132.56	SW PT
181		883786.25	516126.34	RAD 10'
182		883930.73	516324.53	SW PC
183		883937.64	516325.42	SW PT
184		883934.65	516321.42	RAD 5'
185		883938.54	516324.76	SW
186		883948.11	516336.77	SW
187		883943.17	516340.02	SW
188		883941.12	516337.43	SW PC
189		883934.64	516333.74	SW PRC
190		883933.28	516343.65	RAD 10'
191		883936.27	516321.85	RAD 12'
192		883926.87	516329.31	SW PT
193		883773.72	516136.29	SW PC
194		883770.30	516127.50	SW PT
195		883770.13	516125.24	SW PC
196		883760.16	516125.96	RAD 10'
197		883767.98	516119.73	SW PT
198		883767.45	516119.07	SW
199		884011.64	516416.76	SW
200		884017.74	516424.72	SW
201		884017.62	516424.82	SW PC
202		884019.61	516427.07	RAD 3'
203		884016.61	516426.87	SW PCC
204		884030.58	516427.83	RAD 8'
205		884019.61	516436.52	SW PT
206		884191.46	516653.44	SW PC
207		885315.46	515762.94	RAD 1434'
208		884545.37	516972.62	SW PT
209		884557.37	516980.25	SW PC
210		884564.88	516968.44	RAD 14'
211		884562.87	516982.30	SW PCC
212		884567.96	516979.78	SW PT
213		884563.59	516977.35	RAD 5'
214		884568.02	516979.66	SW
215		884576.53	516984.94	SW
216		884573.57	516990.27	SW
217		884571.29	516988.88	SW PC
218		884568.69	516993.15	RAD 5'
219		884567.93	516988.21	SW PRC

Point Table				
Point #	Elevation	Northing	Easting	Description
220		884554.14	516985.32	SW PT
221		884186.76	516657.16	SW PT
222		884014.90	516440.25	SW PC
223		884010.58	516428.11	SW PRC
224		884007.19	516420.74	SW PT
225		884000.58	516428.25	RAD 10'
226		884665.86	517033.99	SW
227		884674.81	517038.45	SW
228		884674.61	517038.85	SW PC
229		884674.90	517042.01	SW PCC
230		884677.29	517040.19	RAD 3'
231		884683.12	517049.14	SW PT
232		884691.72	517031.08	RAD 20'
233		885297.41	515760.02	RAD 1428'
234		885281.58	517187.93	SW PT
235		885371.87	517188.93	SW PC
236		885376.85	517187.67	SW PT
237		885371.98	517178.93	RAD 10'
238		885380.20	517185.80	SW PC
239		885381.73	517183.22	SW PT
240		885378.73	517183.18	RAD 3'
241		885381.74	517183.04	SW
242		885391.74	517183.15	SW
243		885391.67	517189.11	SW
244		885389.32	517189.09	SW PC
245		885389.22	517199.09	RAD 10'
246		885384.35	517190.35	SW PT
247		885379.78	517192.91	SW PC
248		885371.80	517194.93	SW PT
249		885281.52	517193.93	SW PC
250		884680.54	517054.56	SW PR
251		884671.06	517046.87	SW PT
252		884668.12	517043.01	SW PC
253		884664.66	517040.13	SW PT
254		884660.17	517049.06	RAD 10'
255		884663.15	517039.37	SW
256		885495.62	517184.00	SW
257		885505.62	517184.05	SW
258		885505.64	517184.61	SW PC
259		885507.12	517187.12	SW PCC

Point Table				
Point #	Elevation	Northing	Easting	Description
260		885517.66	517190.25	SW PT
261		885508.63	517184.53	RAD 3'
262		885517.89	517170.25	RAD 20'
263		886465.06	517201.03	SW PC
264		886474.86	517198.26	SW PCC
265		886476.26	517195.76	SW PT
266		886465.26	517183.03	RAD 18'
267		886473.26	517195.73	RAD 3'
268		886476.27	517195.16	SW
269		886486.27	517195.27	SW
270		886486.20	517201.23	SW
271		886484.38	517201.22	SW PC
272		886479.02	517202.74	SW PT
273		886484.32	517211.22	RAD 10'
274		886477.99	517203.38	WS PC
275		886464.99	517207.03	SW PT
276		885517.59	517196.25	SW PC
277		885504.76	517192.69	SW PT
278		885502.23	517191.21	SW PC
279		885496.92	517189.85	SW PT
280		885495.77	517189.88	SW

REVISIONS:	
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**PLAN NAME**  
**DEAN ROAD: RID CANAL TO YUMA RD**  
**GRADING / DRAINAGE AND**  
**LAYOUT PLAN**

**ENGINEER INFORMATION**  
KIMLEY-HORN AND ASSOCIATES, INC.  
7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL

DESIGN SEAL



ORIGINAL PLAN DATE  
MARCH 12, 2015

LATEST REVISION DATE

PROJECT No.

SHEET ID.

SHEET No.

**GD12**

**15 OF 39**

SUBMITTAL: **FINAL**

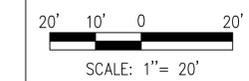
COB PLAN TRACKING #  
COB PERMIT #

**PLANTING LEGEND**

TREES	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Acacia salicina</i> / Willow Acacia
	<i>Parkinsonia x 'Desert Museum'</i> / Desert Museum Palo Verde
	<i>Prosopis chilensis</i> / Chilean Mesquite
	Existing Tree To Remain

SHRUBS AND GROUNDCOVER	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Hesperaloe parviflora</i> / Red Yucca
	<i>Lantana camara 'New Gold'</i> / New Gold Lantana
	<i>Leucophyllum frutescens 'Compacta'</i> / Compact Texas Ranger
	<i>Leucophyllum x 'Heavenly Cloud'</i> / Heavenly Cloud Sage
	<i>Nerium oleander 'Petite Pink'</i> / Petite Pink Oleander
	<i>Ruellia brittoniana 'Katie'</i> / Katie Ruellia
	<i>Ruellia peninsularis</i> / Desert Ruellia

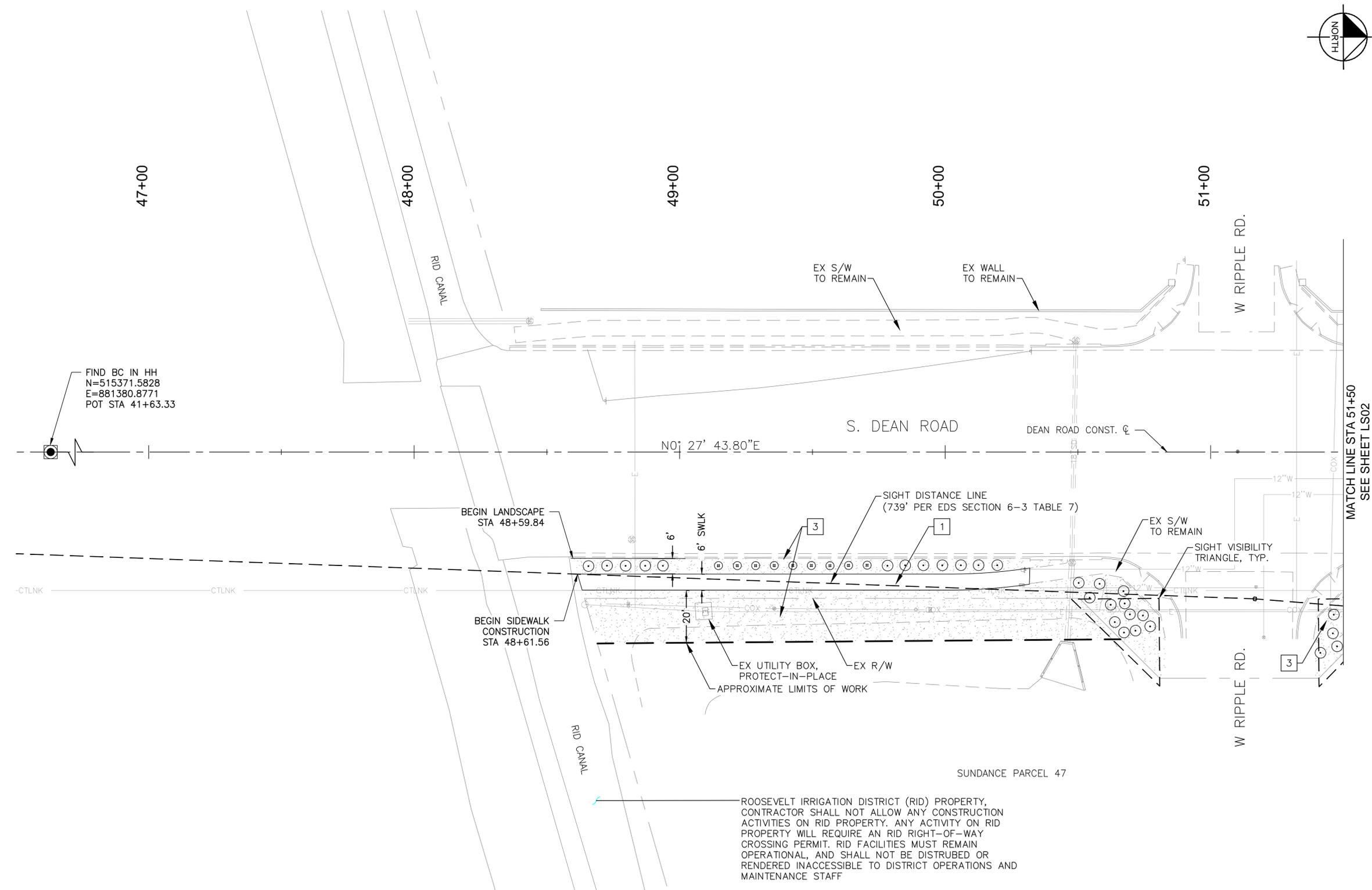
HARDSCAPE	
SYMBOL	DESCRIPTION
	CONCRETE SIDEWALK (TYP); PER MAG STD DTL 230
	SIDEWALK TRANSITION FROM DETACHED TO ATTACHED (TYP); PER CITY OF BUCKEYE STD DTL 63238
	DECOMPOSED GRANITE: 3/4" SCREENED; COLOR TO BE 'SUNDANCE BLEND'; REFER TO DETAIL 4 ON SHEET LS14 FOR THICKNESS



PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD  
 LANDSCAPE/HARDSCAPE PLANS**

ENGINEER INFORMATION  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
	AS-BUILT SEAL	
ORIGINAL PLAN DATE MARCH 12, 2015		LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>LS01</b>	SHEET No. <b>16 OF 39</b>

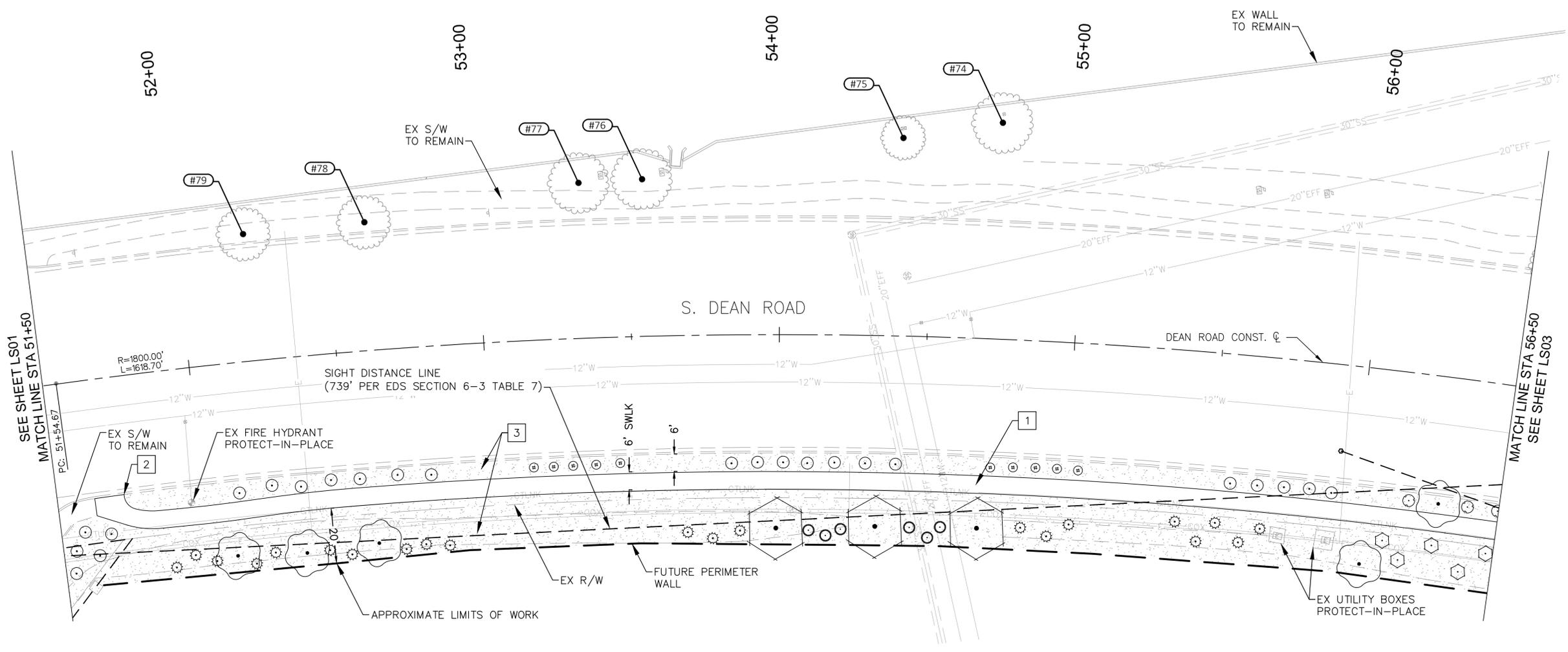


FIND BC IN HH  
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 POT STA 41+63.33

ROOSEVELT IRRIGATION DISTRICT (RID) PROPERTY, CONTRACTOR SHALL NOT ALLOW ANY CONSTRUCTION ACTIVITIES ON RID PROPERTY. ANY ACTIVITY ON RID PROPERTY WILL REQUIRE AN RID RIGHT-OF-WAY CROSSING PERMIT. RID FACILITIES MUST REMAIN OPERATIONAL, AND SHALL NOT BE DISTURBED OR RENDERED INACCESSIBLE TO DISTRICT OPERATIONS AND MAINTENANCE STAFF

REVISIONS:	



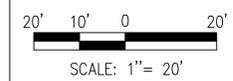


**PLANTING LEGEND**

TREES	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Acacia salicina</i> / Willow Acacia
	<i>Parkinsonia x 'Desert Museum'</i> / Desert Museum Palo Verde
	<i>Prosopis chilensis</i> / Chilean Mesquite
	Existing Tree To Remain

SHRUBS AND GROUNDCOVER	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Hesperaloe parviflora</i> / Red Yucca
	<i>Lantana camara 'New Gold'</i> / New Gold Lantana
	<i>Leucophyllum frutescens 'Compacta'</i> / Compact Texas Ranger
	<i>Leucophyllum x 'Heavenly Cloud'</i> / Heavenly Cloud Sage
	<i>Nerium oleander 'Petite Pink'</i> / Petite Pink Oleander
	<i>Ruellia brittoniana 'Katie'</i> / Katie Ruellia
	<i>Ruellia peninsularis</i> / Desert Ruellia

HARDSCAPE	
SYMBOL	DESCRIPTION
	CONCRETE SIDEWALK (TYP); PER MAG STD DTL 230
	SIDEWALK TRANSITION FROM DETACHED TO ATTACHED (TYP); PER CITY OF BUCKEYE STD DTL 63238
	DECOMPOSED GRANITE: 3/4" SCREENED; COLOR TO BE 'SUNDANCE BLEND'; REFER TO DETAIL 4 ON SHEET LS14 FOR THICKNESS



PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD**  
**LANDSCAPE/HARDSCAPE PLANS**

ENGINEER INFORMATION  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

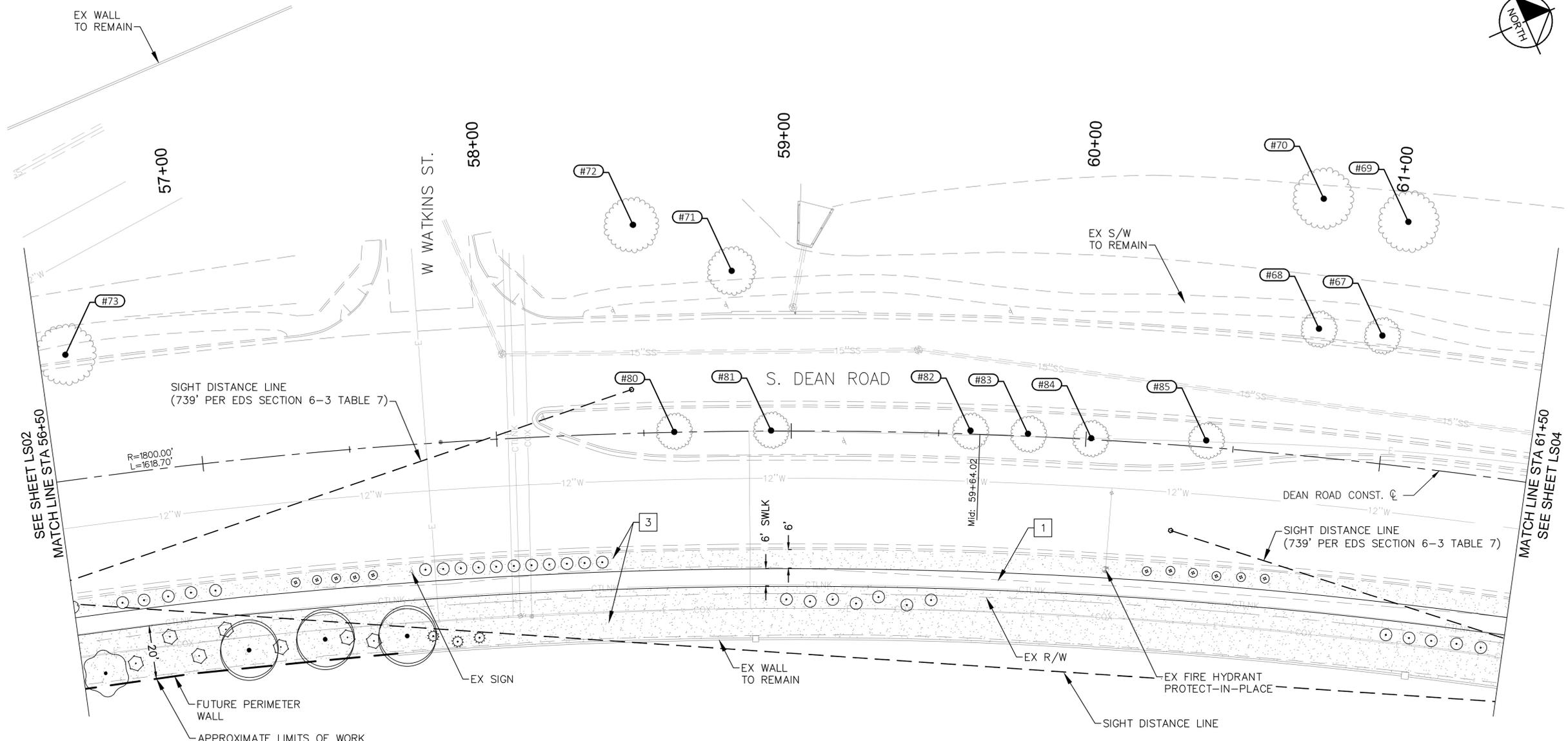
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: FINAL
AS-BUILT SEAL	DESIGN SEAL	



ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. SHEET No. <b>LS02 17 OF 39</b>

REVISIONS:



### PLANTING LEGEND

TREES

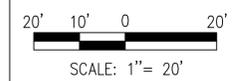
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Acacia salicina</i> / Willow Acacia
	<i>Parkinsonia x 'Desert Museum'</i> / Desert Museum Palo Verde
	<i>Prosopis chilensis</i> / Chilean Mesquite
	Existing Tree To Remain

SHRUBS AND GROUNDCOVER

SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Hesperaloe parviflora</i> / Red Yucca
	<i>Lantana camara 'New Gold'</i> / New Gold Lantana
	<i>Leucophyllum frutescens 'Compacta'</i> / Compact Texas Ranger
	<i>Leucophyllum x 'Heavenly Cloud'</i> / Heavenly Cloud Sage
	<i>Nerium oleander 'Petite Pink'</i> / Petite Pink Oleander
	<i>Ruellia brittoniana 'Katie'</i> / Katie Ruellia
	<i>Ruellia peninsularis</i> / Desert Ruellia

HARDSCAPE

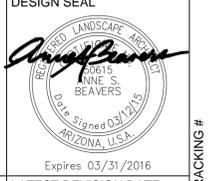
SYMBOL	DESCRIPTION
	1 CONCRETE SIDEWALK (TYP); PER MAG STD DTL 230
	2 SIDEWALK TRANSITION FROM DETACHED TO ATTACHED (TYP); PER CITY OF BUCKEYE STD DTL 63238
	3 DECOMPOSED GRANITE: 3/4" SCREENED; COLOR TO BE 'SUNDANCE BLEND'; REFER TO DETAIL 4 ON SHEET LS14 FOR THICKNESS



PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD  
 LANDSCAPE/HARDSCAPE PLANS**

ENGINEER INFORMATION  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL	

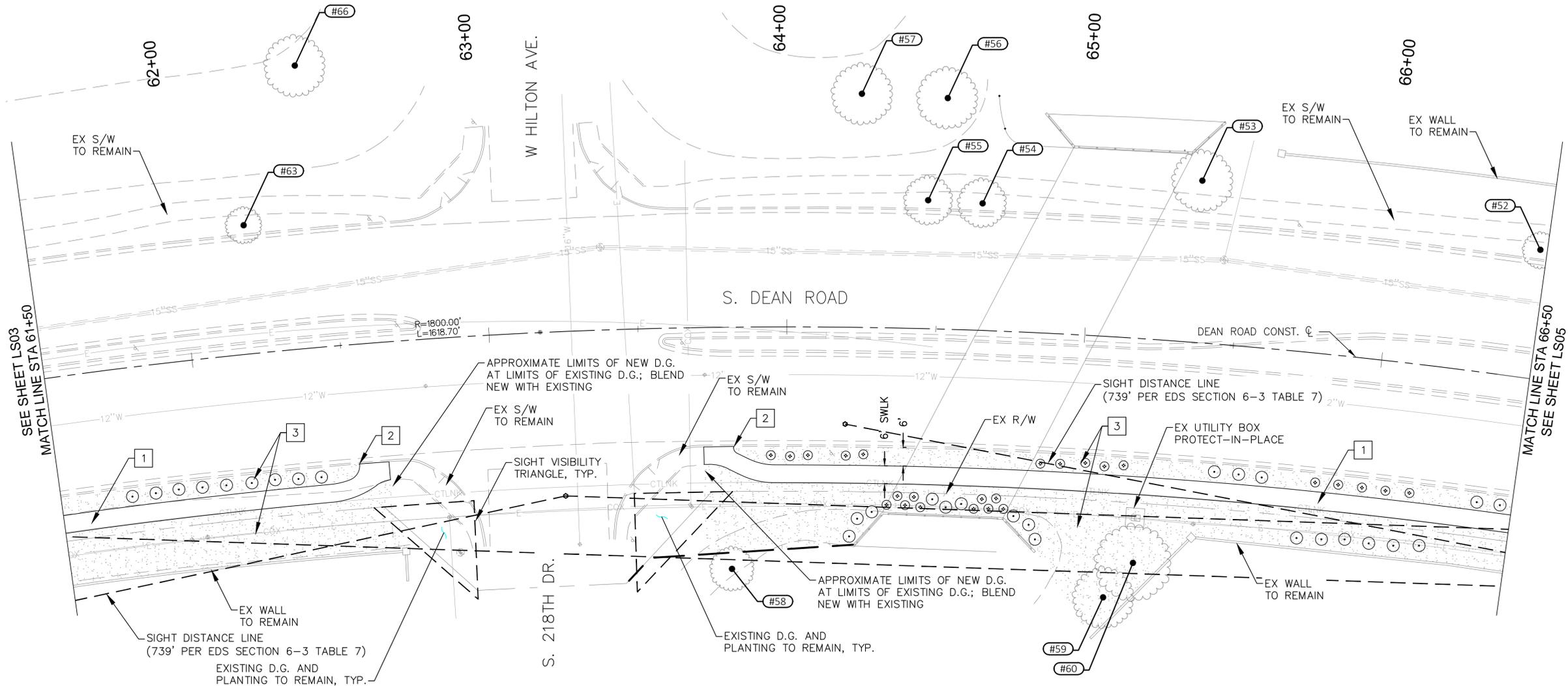


ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>LS03</b>
SHEET No. <b>18</b>	OF <b>39</b>

REVISIONS:

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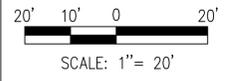


**PLANTING LEGEND**

TREES	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Acacia salicina</i> / Willow Acacia
	<i>Parkinsonia x 'Desert Museum'</i> / Desert Museum Palo Verde
	<i>Prosopis chilensis</i> / Chilean Mesquite
	Existing Tree To Remain

SHRUBS AND GROUNDCOVER	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Hesperaloe parviflora</i> / Red Yucca
	<i>Lantana camara 'New Gold'</i> / New Gold Lantana
	<i>Leucophyllum frutescens 'Compacta'</i> / Compact Texas Ranger
	<i>Leucophyllum x 'Heavenly Cloud'</i> / Heavenly Cloud Sage
	<i>Nerium oleander 'Petite Pink'</i> / Petite Pink Oleander
	<i>Ruellia brittoniana 'Katie'</i> / Katie Ruellia
	<i>Ruellia peninsularis</i> / Desert Ruellia

HARDSCAPE	
SYMBOL	DESCRIPTION
	1 CONCRETE SIDEWALK (TYP); PER MAG STD DTL 230
	2 SIDEWALK TRANSITION FROM DETACHED TO ATTACHED (TYP); PER CITY OF BUCKEYE STD DTL 63238
	3 DECOMPOSED GRANITE: 3/4" SCREENED; COLOR TO BE 'SUNDANCE BLEND'; REFER TO DETAIL 4 ON SHEET LS14 FOR THICKNESS



PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD  
 LANDSCAPE/HARDSCAPE PLANS**

ENGINEER INFORMATION  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL	



ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>LS04</b>
SHEET No. <b>19</b>	OF <b>39</b>

REVISIONS:

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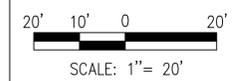
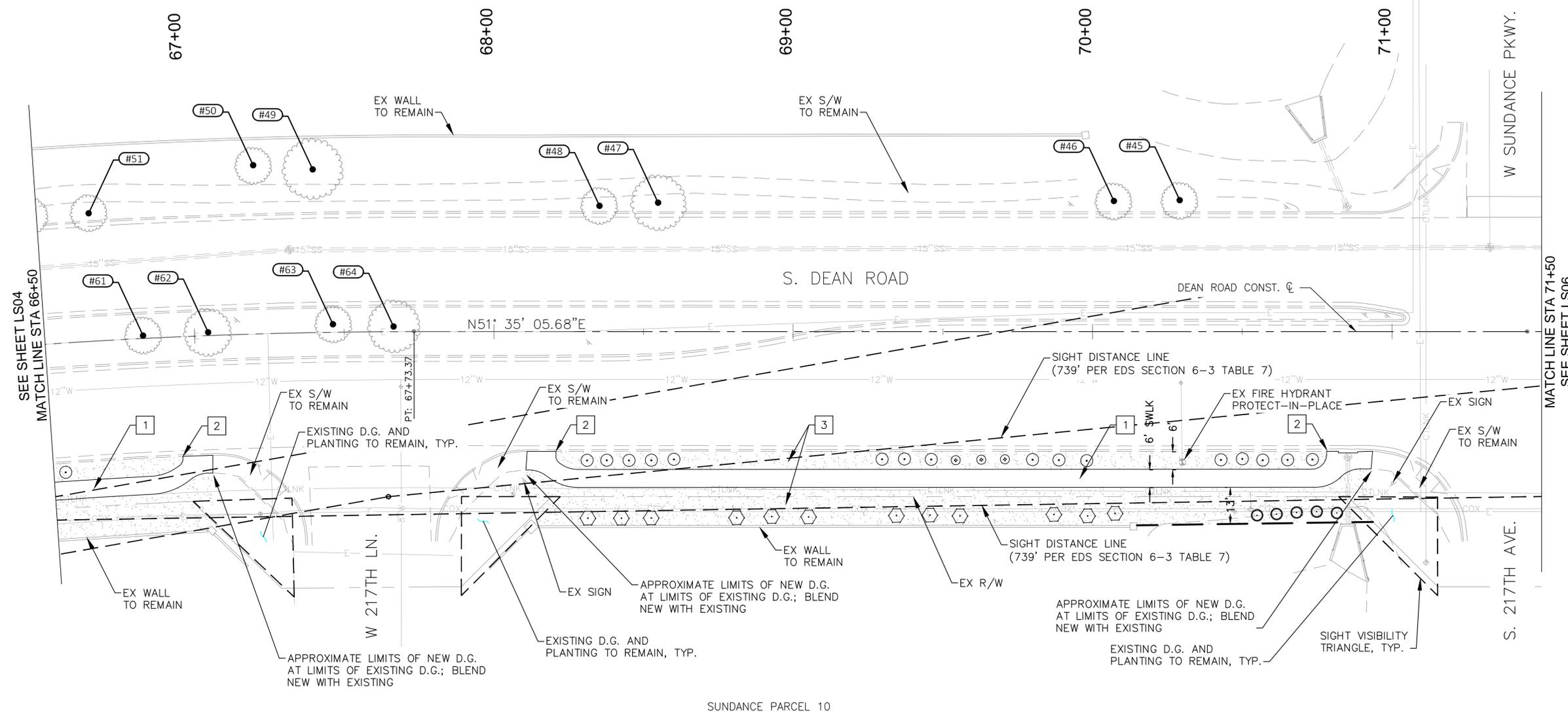


**PLANTING LEGEND**

TREES	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Acacia salicina</i> / Willow Acacia
	<i>Parkinsonia x 'Desert Museum'</i> / Desert Museum Palo Verde
	<i>Prosopis chilensis</i> / Chilean Mesquite
	Existing Tree To Remain

SHRUBS AND GROUNDCOVER	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Hesperaloe parviflora</i> / Red Yucca
	<i>Lantana camara 'New Gold'</i> / New Gold Lantana
	<i>Leucophyllum frutescens 'Compacta'</i> / Compact Texas Ranger
	<i>Leucophyllum x 'Heavenly Cloud'</i> / Heavenly Cloud Sage
	<i>Nerium oleander 'Petite Pink'</i> / Petite Pink Oleander
	<i>Ruellia brittoniana 'Katie'</i> / Katie Ruellia
	<i>Ruellia peninsularis</i> / Desert Ruellia

HARDSCAPE	
SYMBOL	DESCRIPTION
	1 CONCRETE SIDEWALK (TYP); PER MAG STD DTL 230
	2 SIDEWALK TRANSITION FROM DETACHED TO ATTACHED (TYP); PER CITY OF BUCKEYE STD DTL 63238
	3 DECOMPOSED GRANITE: 3/4" SCREENED; COLOR TO BE 'SUNDANCE BLEND'; REFER TO DETAIL 4 ON SHEET LS14 FOR THICKNESS



PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD**  
 LANDSCAPE/HARDSCAPE PLANS

ENGINEER INFORMATION  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

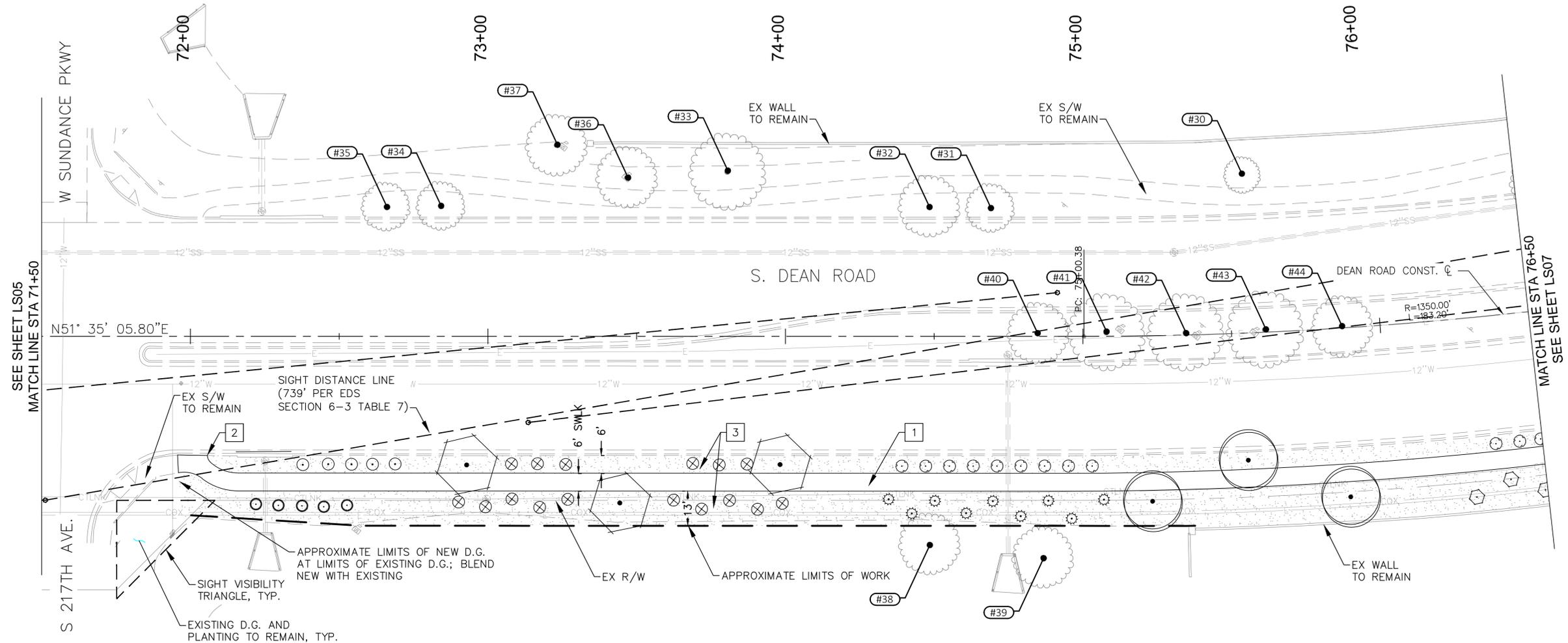
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: FINAL
AS-BUILT SEAL	DESIGN SEAL	



REVISIONS:	
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ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>LS05</b> SHEET No. <b>20 OF 39</b>

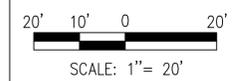


**PLANTING LEGEND**

TREES	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Acacia salicina</i> / Willow Acacia
	<i>Parkinsonia x 'Desert Museum'</i> / Desert Museum Palo Verde
	<i>Prosopis chilensis</i> / Chilean Mesquite
	Existing Tree To Remain

SHRUBS AND GROUNDCOVER	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Hesperaloe parviflora</i> / Red Yucca
	<i>Lantana camara 'New Gold'</i> / New Gold Lantana
	<i>Leucophyllum frutescens 'Compacta'</i> / Compact Texas Ranger
	<i>Leucophyllum x 'Heavenly Cloud'</i> / Heavenly Cloud Sage
	<i>Nerium oleander 'Petite Pink'</i> / Petite Pink Oleander
	<i>Ruellia brittoniana 'Katie'</i> / Katie Ruellia
	<i>Ruellia peninsularis</i> / Desert Ruellia

HARDSCAPE	
SYMBOL	DESCRIPTION
	1 CONCRETE SIDEWALK (TYP); PER MAG STD DTL 230
	2 SIDEWALK TRANSITION FROM DETACHED TO ATTACHED (TYP); PER CITY OF BUCKEYE STD DTL 63238
	3 DECOMPOSED GRANITE: 3/4" SCREENED; COLOR TO BE 'SUNDANCE BLEND'; REFER TO DETAIL 4 ON SHEET LS14 FOR THICKNESS



PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD  
 LANDSCAPE/HARDSCAPE PLANS**

ENGINEER INFORMATION  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL	



ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>LS06</b> SHEET No. <b>21 OF 39</b>

REVISIONS:

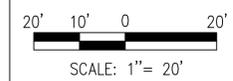
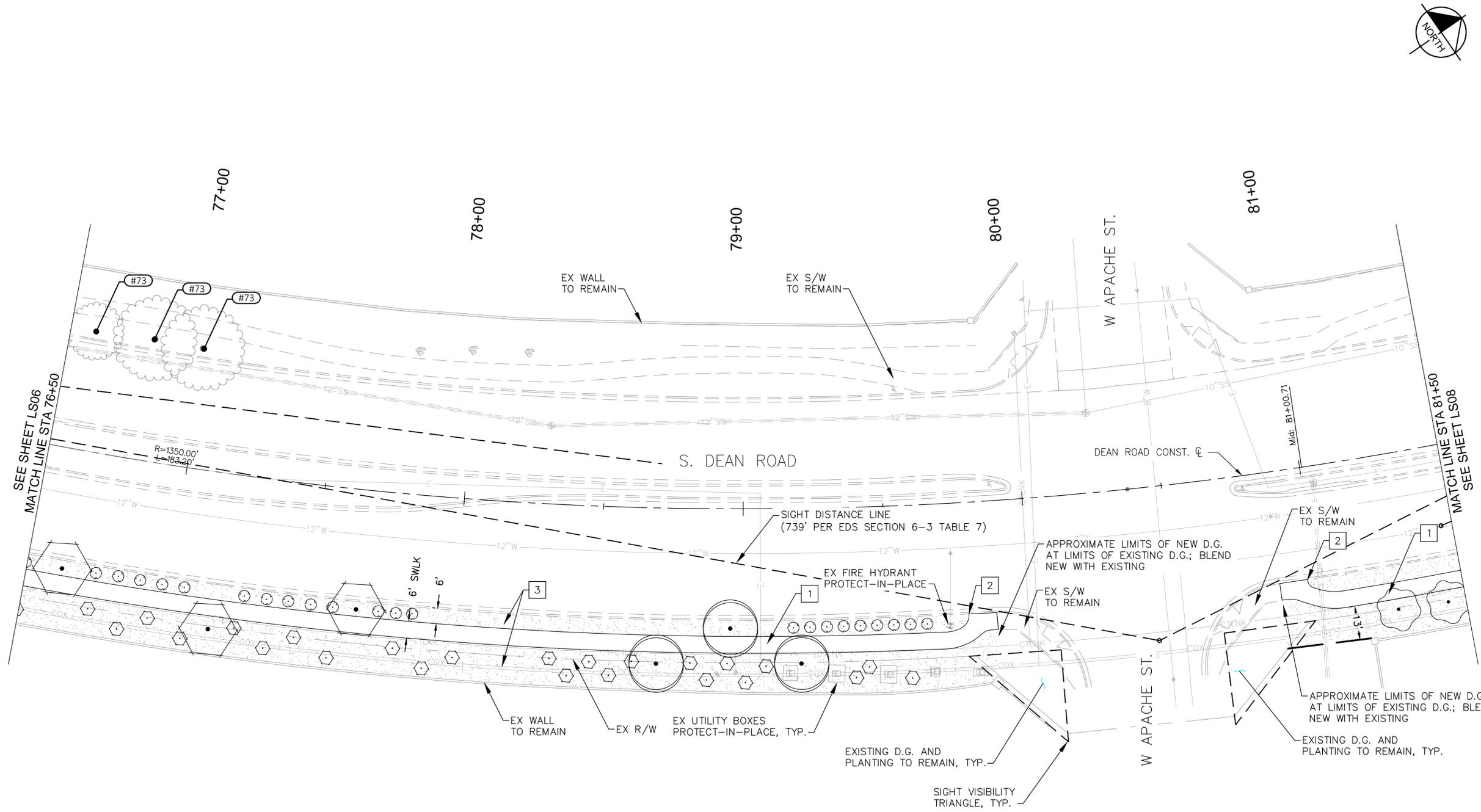



**PLANTING LEGEND**

TREES	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Acacia salicina</i> / Willow Acacia
	<i>Parkinsonia x 'Desert Museum'</i> / Desert Museum Palo Verde
	<i>Prosopis chilensis</i> / Chilean Mesquite
	Existing Tree To Remain

SHRUBS AND GROUNDCOVER	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Hesperaloe parviflora</i> / Red Yucca
	<i>Lantana camara 'New Gold'</i> / New Gold Lantana
	<i>Leucophyllum frutescens 'Compacta'</i> / Compact Texas Ranger
	<i>Leucophyllum x 'Heavenly Cloud'</i> / Heavenly Cloud Sage
	<i>Nerium oleander 'Petite Pink'</i> / Petite Pink Oleander
	<i>Ruellia brittoniana 'Katie'</i> / Katie Ruellia
	<i>Ruellia peninsularis</i> / Desert Ruellia

HARDSCAPE	
SYMBOL	DESCRIPTION
	1 CONCRETE SIDEWALK (TYP); PER MAG STD DTL 230
	2 SIDEWALK TRANSITION FROM DETACHED TO ATTACHED (TYP); PER CITY OF BUCKEYE STD DTL 63238
	3 DECOMPOSED GRANITE: 3/4" SCREENED; COLOR TO BE 'SUNDANCE BLEND'; REFER TO DETAIL 4 ON SHEET LS14 FOR THICKNESS



PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD  
LANDSCAPE/HARDSCAPE PLANS**

ENGINEER INFORMATION  
KIMLEY-HORN AND ASSOCIATES, INC.  
7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL	



ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>LS07</b> SHEET No. <b>22 OF 39</b>

REVISIONS:
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**PLANTING LEGEND**

TREES

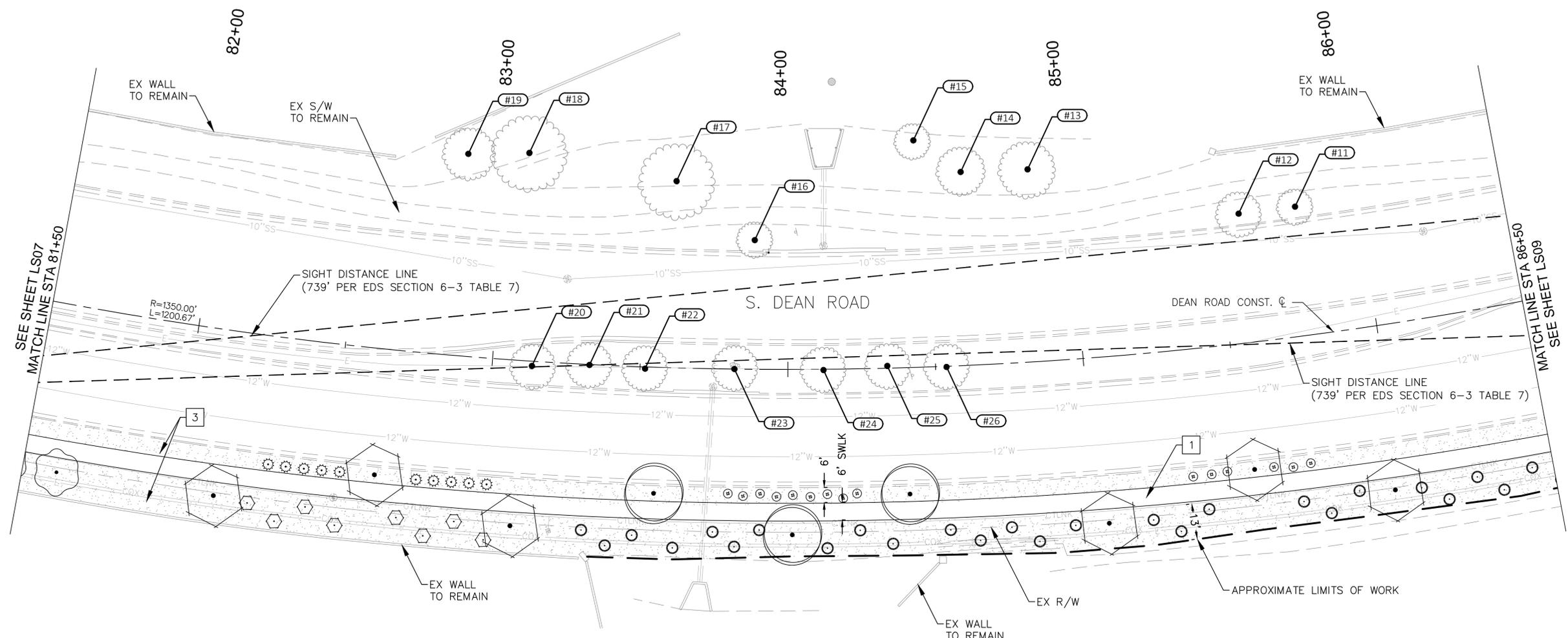
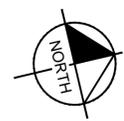
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Acacia salicina</i> / Willow Acacia
	<i>Parkinsonia x 'Desert Museum'</i> / Desert Museum Palo Verde
	<i>Prosopis chilensis</i> / Chilean Mesquite
	Existing Tree To Remain

SHRUBS AND GROUNDCOVER

SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Hesperaloe parviflora</i> / Red Yucca
	<i>Lantana camara 'New Gold'</i> / New Gold Lantana
	<i>Leucophyllum frutescens 'Compacta'</i> / Compact Texas Ranger
	<i>Leucophyllum x 'Heavenly Cloud'</i> / Heavenly Cloud Sage
	<i>Nerium oleander 'Petite Pink'</i> / Petite Pink Oleander
	<i>Ruellia brittoniana 'Katie'</i> / Katie Ruellia
	<i>Ruellia peninsularis</i> / Desert Ruellia

HARDSCAPE

SYMBOL	DESCRIPTION
	1 CONCRETE SIDEWALK (TYP); PER MAG STD DTL 230
	2 SIDEWALK TRANSITION FROM DETACHED TO ATTACHED (TYP); PER CITY OF BUCKEYE STD DTL 63238
	3 DECOMPOSED GRANITE: 3/4" SCREENED; COLOR TO BE 'SUNDANCE BLEND'; REFER TO DETAIL 4 ON SHEET LS14 FOR THICKNESS



SUNDANCE PARCEL 48

SUNDANCE PARCEL 49A

REVISIONS:

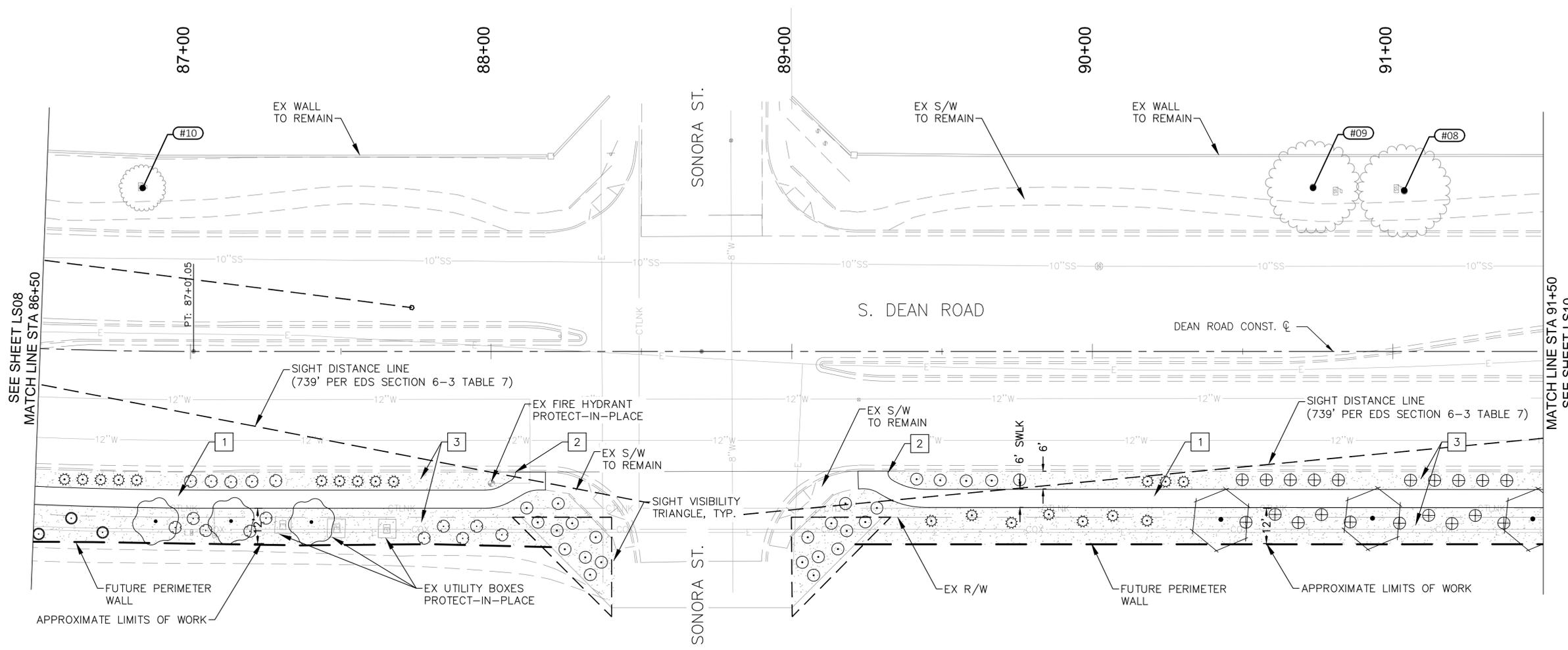
1	
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PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD  
 LANDSCAPE/HARDSCAPE PLANS**

ENGINEER INFORMATION  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL 	
ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE	COB PLAN TRACKING #
PROJECT No.	SHEET ID. <b>LS08</b>	SHEET No. <b>23 OF 39</b>

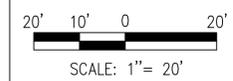


**PLANTING LEGEND**

TREES	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Acacia salicina</i> / Willow Acacia
	<i>Parkinsonia x 'Desert Museum'</i> / Desert Museum Palo Verde
	<i>Prosopis chilensis</i> / Chilean Mesquite
	Existing Tree To Remain

SHRUBS AND GROUNDCOVER	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Hesperaloe parviflora</i> / Red Yucca
	<i>Lantana camara 'New Gold'</i> / New Gold Lantana
	<i>Leucophyllum frutescens 'Compacta'</i> / Compact Texas Ranger
	<i>Leucophyllum x 'Heavenly Cloud'</i> / Heavenly Cloud Sage
	<i>Nerium oleander 'Petite Pink'</i> / Petite Pink Oleander
	<i>Ruellia brittoniana 'Katie'</i> / Katie Ruellia
	<i>Ruellia peninsularis</i> / Desert Ruellia

HARDSCAPE	
SYMBOL	DESCRIPTION
	1 CONCRETE SIDEWALK (TYP); PER MAG STD DTL 230
	2 SIDEWALK TRANSITION FROM DETACHED TO ATTACHED (TYP); PER CITY OF BUCKEYE STD DTL 63238
	3 DECOMPOSED GRANITE: 3/4" SCREENED; COLOR TO BE 'SUNDANCE BLEND'; REFER TO DETAIL 4 ON SHEET LS14 FOR THICKNESS



PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD**  
 LANDSCAPE/HARDSCAPE PLANS

ENGINEER INFORMATION  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL	



ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>LS09</b> SHEET No. <b>24 OF 39</b>

REVISIONS:

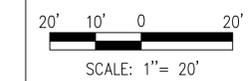



**PLANTING LEGEND**

TREES	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Acacia salicina</i> / Willow Acacia
	<i>Parkinsonia x 'Desert Museum'</i> / Desert Museum Palo Verde
	<i>Prosopis chilensis</i> / Chilean Mesquite
	Existing Tree To Remain

SHRUBS AND GROUNDCOVER	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Hesperaloe parviflora</i> / Red Yucca
	<i>Lantana camara 'New Gold'</i> / New Gold Lantana
	<i>Leucophyllum frutescens 'Compacta'</i> / Compact Texas Ranger
	<i>Leucophyllum x 'Heavenly Cloud'</i> / Heavenly Cloud Sage
	<i>Nerium oleander 'Petite Pink'</i> / Petite Pink Oleander
	<i>Ruellia brittoniana 'Katie'</i> / Katie Ruellia
	<i>Ruellia peninsularis</i> / Desert Ruellia

HARDSCAPE	
SYMBOL	DESCRIPTION
	1 CONCRETE SIDEWALK (TYP); PER MAG STD DTL 230
	2 SIDEWALK TRANSITION FROM DETACHED TO ATTACHED (TYP); PER CITY OF BUCKEYE STD DTL 63238
	3 DECOMPOSED GRANITE: 3/4" SCREENED; COLOR TO BE 'SUNDANCE BLEND'; REFER TO DETAIL 4 ON SHEET LS14 FOR THICKNESS

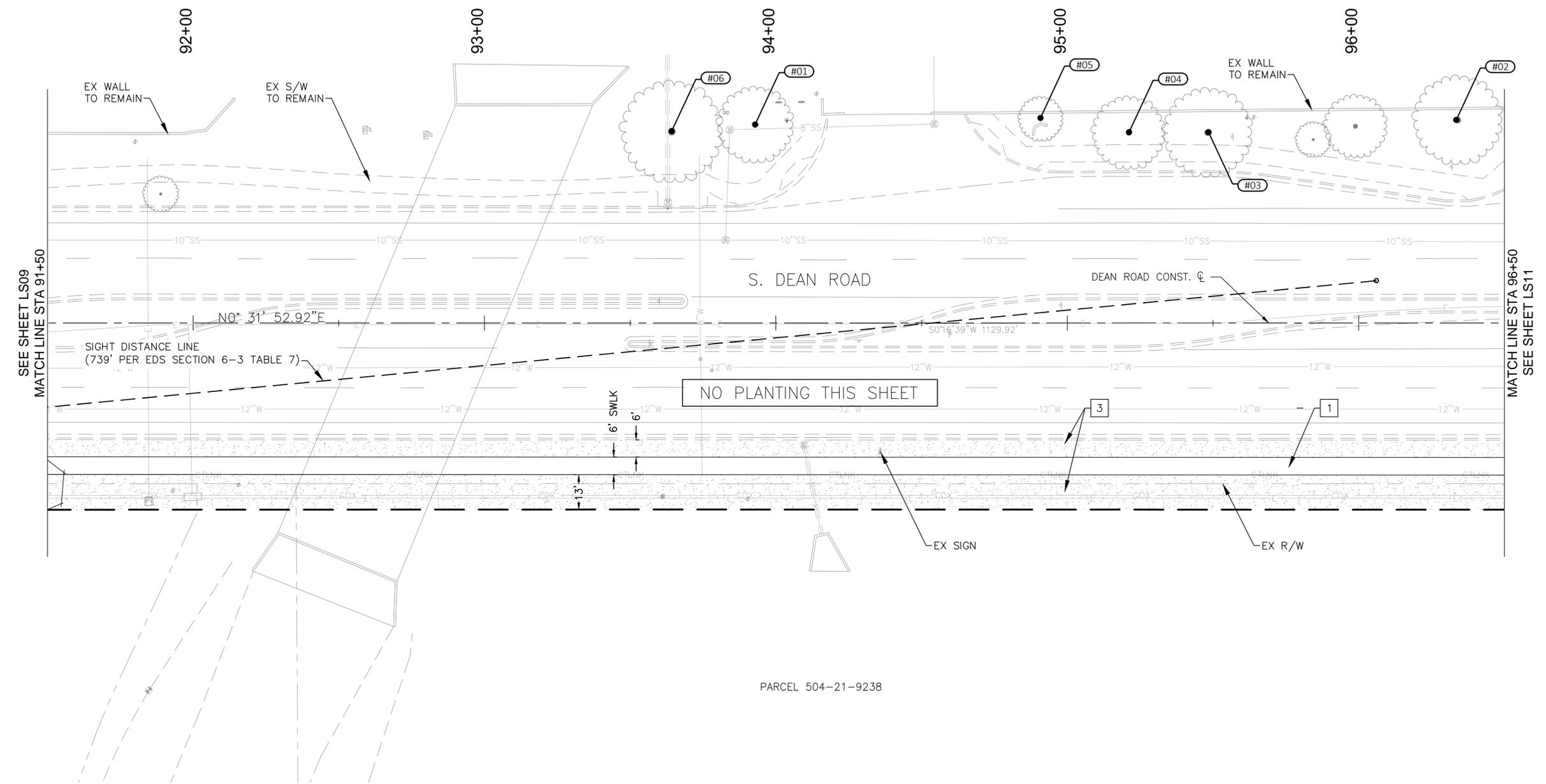


PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD  
 LANDSCAPE/HARDSCAPE PLANS**

ENGINEER INFORMATION  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL 	
ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE	COB PLAN TRACKING #
PROJECT No.	SHEET ID. <b>LS10</b>	SHEET No. <b>25 OF 39</b>

REVISIONS:	

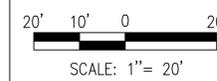
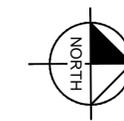


**PLANTING LEGEND**

TREES	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Acacia salicina</i> / Willow Acacia
	<i>Parkinsonia x 'Desert Museum'</i> / Desert Museum Palo Verde
	<i>Prosopis chilensis</i> / Chilean Mesquite
	Existing Tree To Remain

SHRUBS AND GROUNDCOVER	
SYMBOL	BOTANICAL NAME / COMMON NAME
	<i>Hesperaloe parviflora</i> / Red Yucca
	<i>Lantana camara 'New Gold'</i> / New Gold Lantana
	<i>Leucophyllum frutescens 'Compacta'</i> / Compact Texas Ranger
	<i>Leucophyllum x 'Heavenly Cloud'</i> / Heavenly Cloud Sage
	<i>Nerium oleander 'Petite Pink'</i> / Petite Pink Oleander
	<i>Ruellia brittoniana 'Katie'</i> / Katie Ruellia
	<i>Ruellia peninsularis</i> / Desert Ruellia

HARDSCAPE	
SYMBOL	DESCRIPTION
	1 CONCRETE SIDEWALK (TYP); PER MAG STD DTL 230
	2 SIDEWALK TRANSITION FROM DETACHED TO ATTACHED (TYP); PER CITY OF BUCKEYE STD DTL 63238
	3 DECOMPOSED GRANITE: 3/4" SCREENED; COLOR TO BE 'SUNDANCE BLEND'; REFER TO DETAIL 4 ON SHEET LS14 FOR THICKNESS

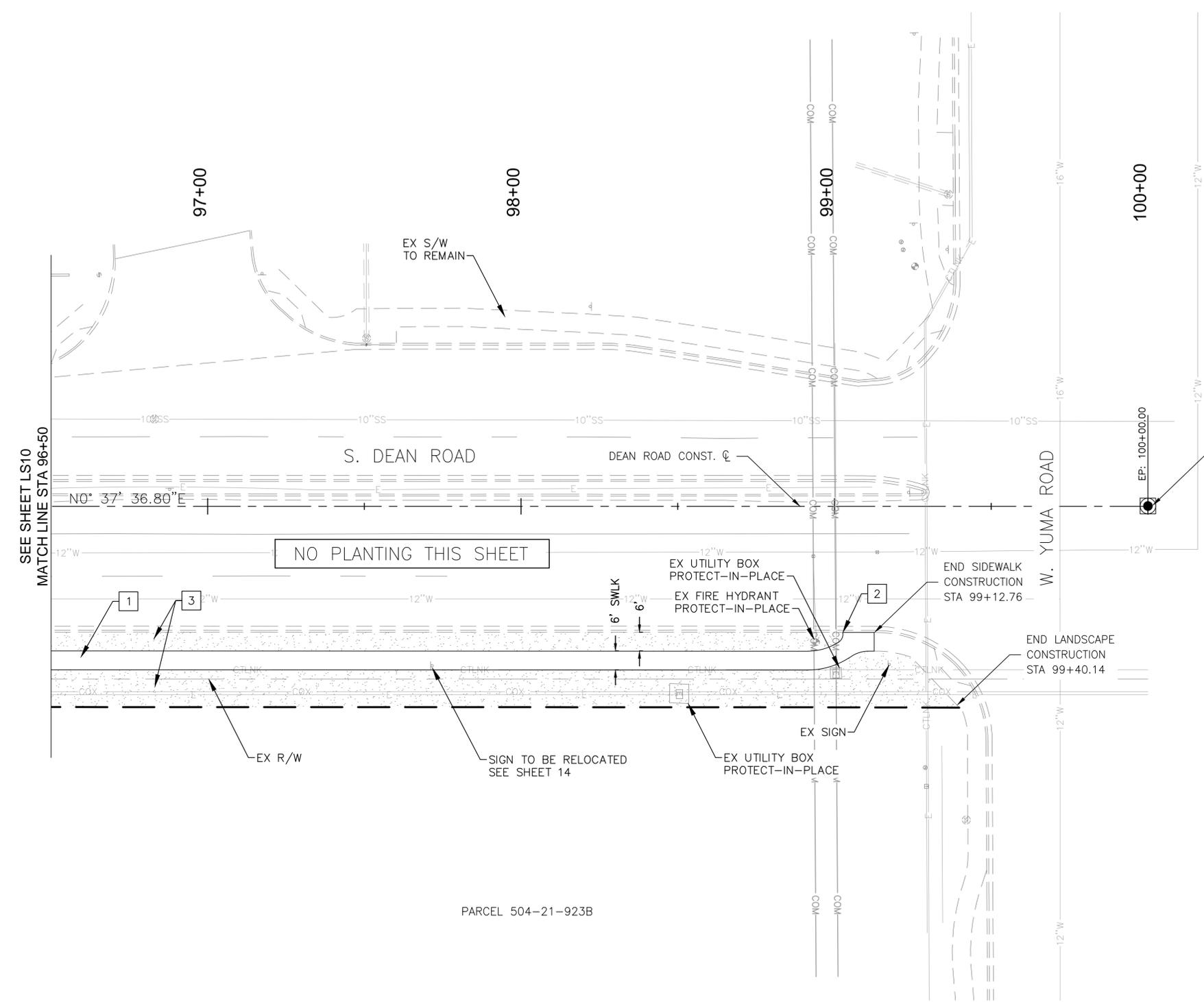


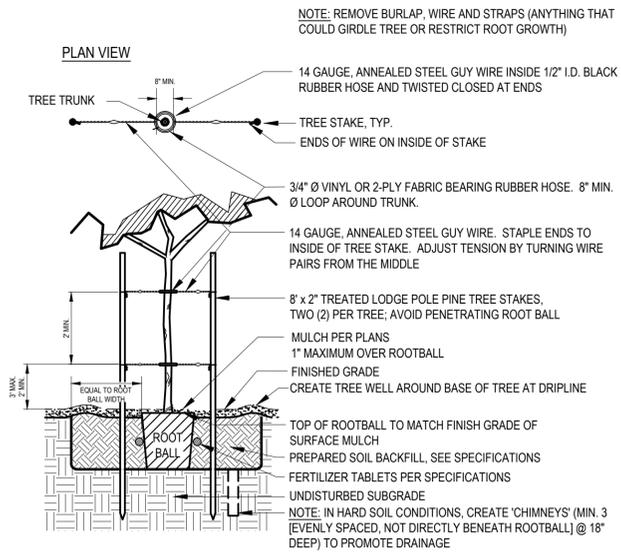
PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD**  
**LANDSCAPE/HARDSCAPE PLANS**

ENGINEER INFORMATION  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

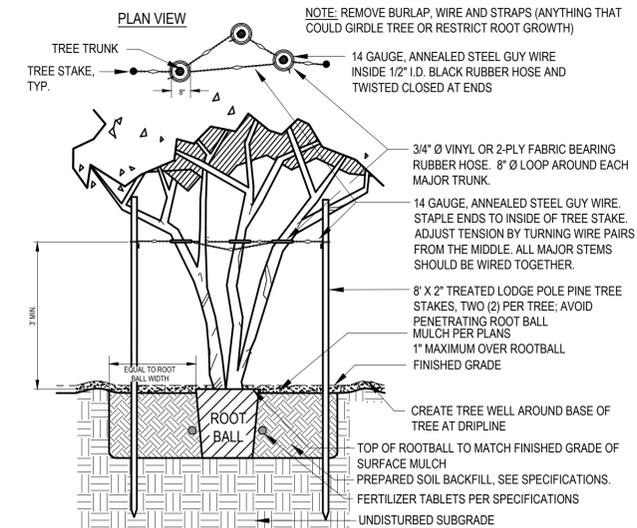
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL	
		COB PLAN TRACKING #
ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE	COB PERMIT #
PROJECT No.	SHEET ID. <b>LS11</b>	SHEET No. <b>26 OF 39</b>

REVISIONS:	





**1 TREE PLANTING AND STAKING**  
SCALE: N.T.S.

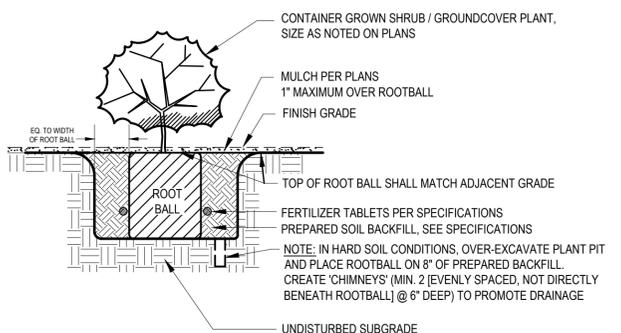


**2 TREE STAKING - MULTI-TRUNK**  
SCALE: N.T.S.

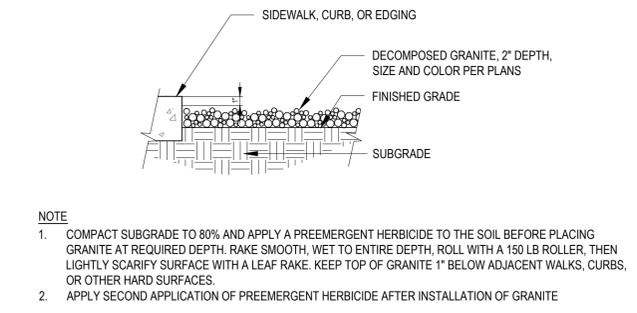
**AMENDED PLANTING BACKFILL MIX**  
MIX SHALL CONSIST OF: 2 PARTS 'NATIVE' SITE SOIL (NO CALICHE IN BACKFILL) & 1 PART MULCH ('HUMUS' 'NATURAL FERTILE, FRIABLE SOIL THOROUGHLY MIXED PRIOR TO BACKFILLING PIT. REMOVE ALL INORGANIC MATERIAL GREATER THAN 1" IN SIZE. SOIL BACKFILLING SHALL BE ACCOMPLISHED IN 6" LIFTS. EACH LIFT SHALL BE WATER SETTLED WITHOUT POOLING.

**SLOW-RELEASE FERTILIZER TABLETS**  
FERTILIZER TABLETS SHALL BE AGRIFORM OR EQUAL (21 GRAM 20-10-5) SLOW RELEASE. TABLETS SHALL BE PLACED AT 1/2 THE DEPTH OF THE ROOTBALL AT THE FOLLOWING RATES.  
1 TABLET PER 1-GALLON CONTAINER  
2 TABLETS PER 5-GALLON CONTAINER  
3 TABLETS PER 15-GALLON CONTAINER  
4 TABLETS PER 24" BOX  
AND AT A RATE OF 1 TABLET PER EACH ADDITIONAL 6" BOX SIZE. WHEN MULTIPLE QUANTITIES OF TABLETS ARE REQUIRED, THEY SHALL BE EQUALLY SPACED AT THE SPECIFIED DEPTH.

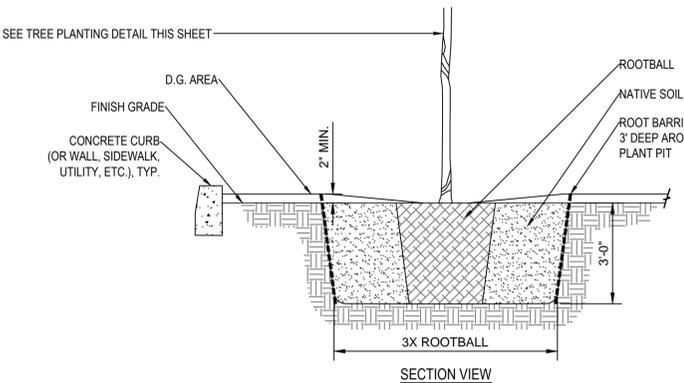
**3 FERTILIZER AND BACKFILL NOTES**  
SCALE: N.T.S.



**4 SHRUB / GROUND COVER PLANTING**  
SCALE: N.T.S.

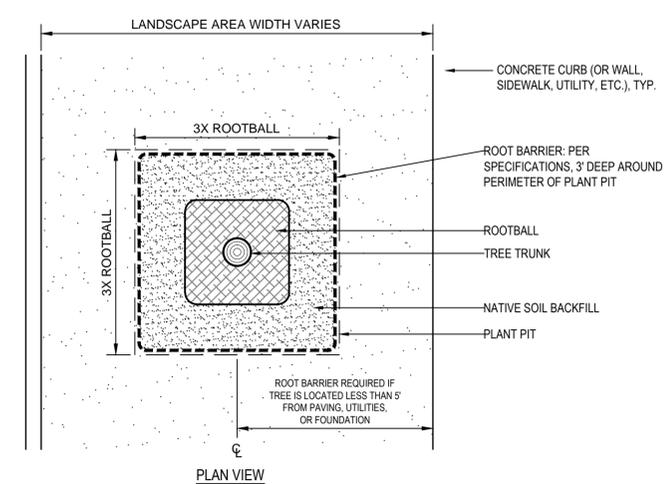


**5 DECOMPOSED GRANITE INSTALLATION**  
SCALE: N.T.S.



**NOTES:**  
1. VERIFY LOCATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION ACTIVITY.  
2. BARRIER PANEL MUST BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.  
3. CONTRACTOR TO DETERMINE MOST EFFECTIVE ROOT BARRIER METHOD AS APPROPRIATE FOR EACH SITUATION.  
4. CONTRACTOR SHALL USE ROOT BARRIER WHEN TREES ARE LOCATED AT A DISTANCE OF LESS THAN 5' FROM ADJACENT PAVING, FOUNDATIONS, OR UTILITIES.

**6 36" DEPTH ROOT BARRIER**  
N.T.S.



**6 36" DEPTH ROOT BARRIER**  
N.T.S.

REVISIONS:

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PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD**  
LANDSCAPE/HARDSCAPE DETAILS

ENGINEER INFORMATION  
KIMLEY-HORN AND ASSOCIATES, INC.  
7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL  
COB ENGINEERING APPROVED SEAL  
SUBMITTAL: **FINAL**

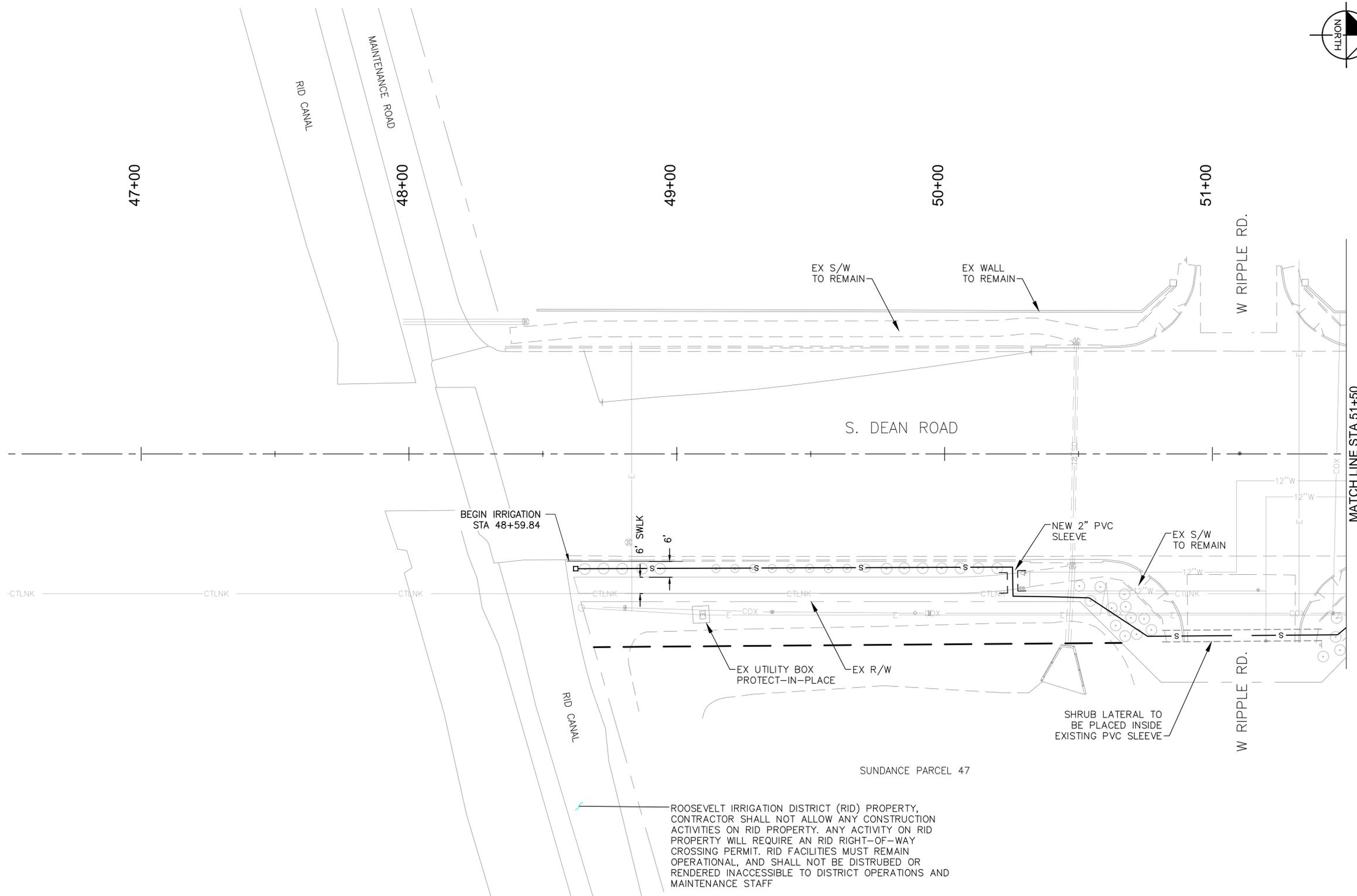
AS-BUILT SEAL  
DESIGN SEAL  
Expires 03/31/2016

ORIGINAL PLAN DATE  
MARCH 12, 2015  
LATEST REVISION DATE

PROJECT No. SHEET ID. SHEET No.  
**LS12 27 OF 39**

COB PLAN TRACKING #  
COB PERMIT #

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

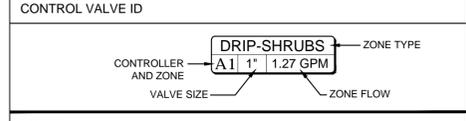


### IRRIGATION LEGEND

MATERIALS AND EQUIPMENT	
MANUFACTURER / MODEL / DESCRIPTION	
	Existing Irrigation Meter and Backflow Preventer
	HUNTER XCH-1200-SS, 12-Station controller in Stainless Steel Enclosure; XCHSPB with XCHSPB mounting pole and bracket; SPXCH Solar panel kit (mounts to stainless steel enclosure); and (1) latching type solenoid per control valve. Install per manufacturer's specifications.
	HUNTER MINI-CLIK-C Rain Sensor with SG-MC Stainless Steel Sensor Guard.
	HUNTER PCZ-101-40 Drip Control Valve Kit (with 1" Valve, Filter and 40 PSI regulator); Install one valve per box per rectangular box, min. 12" clearance between valves. Install 1" bronze angle-type shut-off valve immediately upstream of control valve (see detail).
	Lateral Flush End Cap (in box)
<b>DRIP EMISSION DEVICES [as specified or equal]</b>	
Trees: Bowsmith ML210 Multi-outlet emitter (1) per tree, 6 outlets open, 12.0 GPHM per tree	
Shrubs: Bowsmith SL210 Single-outlet emitter (1) per shrub, 1.0 GPH per shrub	

SLEEVE SCHEDULE	
SIZE / DESCRIPTION	
---	SCH 40 PVC Sleeve (size noted on plan) / Spears or equal
---	All pipe beneath pavement shall be sleeved

PIPE SCHEDULE	
SIZE AND DESCRIPTION	
---	EXST 1-1/2" SCH 40 PVC Mainline Located approx. 13' from back of curb
---	SCH 40 PVC Tree Lateral, 3/4"
---	SCH 40 PVC Shrub Lateral, 3/4"



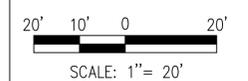
**NOTES**

PIPE SIZING PROVIDED FOR CONVENIENCE; CONTRACTOR SHALL ENSURE FLOW VELOCITY THROUGH MAINLINE AND LATERALS DOES NOT EXCEED 5.0 FPS.

IRRIGATION SYSTEM COMPONENTS AND SIZING ARE BASED ON AN ASSUMED MINIMUM AVAILABLE STATIC PRESSURE OF 60 P.S.I. CONTRACTOR SHALL FIELD TEST AVAILABLE PRESSURE PRIOR TO INSTALLATION AND NOTIFY OWNER AND LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCY.

ALL VALVES SHALL BE CONNECTED TO EXISTING IRRIGATION MAINLINE, AND CONNECTED TO NEW CONTROLLER WITH EXISTING IRRIGATION WIRING.

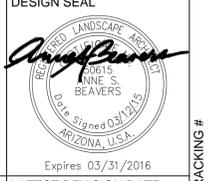
IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE OF LANDSCAPE AREAS FOR CLARITY ONLY. ALL COMPONENTS AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS UNLESS SLEEVED BENEATH PAVEMENT.



PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD IRRIGATION PLANS**

ENGINEER INFORMATION  
KIMLEY-HORN AND ASSOCIATES, INC.  
7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL	

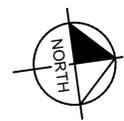
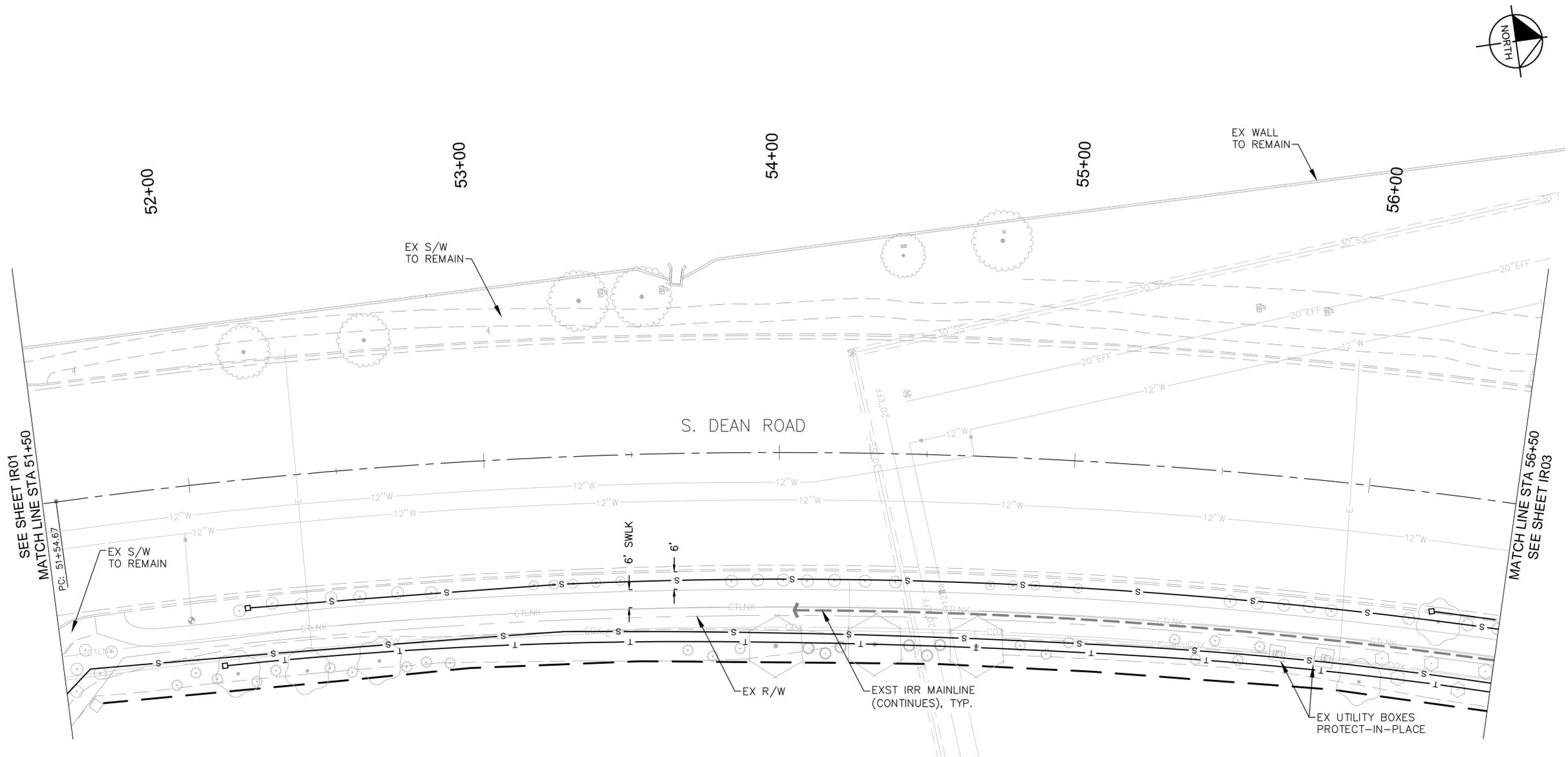


ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. SHEET No.
	<b>IRD1 28 OF 39</b>

REVISIONS:	

ROOSEVELT IRRIGATION DISTRICT (RID) PROPERTY, CONTRACTOR SHALL NOT ALLOW ANY CONSTRUCTION ACTIVITIES ON RID PROPERTY. ANY ACTIVITY ON RID PROPERTY WILL REQUIRE AN RID RIGHT-OF-WAY CROSSING PERMIT. RID FACILITIES MUST REMAIN OPERATIONAL, AND SHALL NOT BE DISTURBED OR RENDERED INACCESSIBLE TO DISTRICT OPERATIONS AND MAINTENANCE STAFF



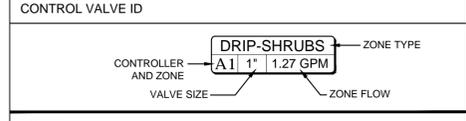


### IRRIGATION LEGEND

MATERIALS AND EQUIPMENT	
MANUFACTURER / MODEL / DESCRIPTION	
	Existing Irrigation Meter and Backflow Preventer
	HUNTER XCH-1200-SS, 12-Station controller in Stainless Steel Enclosure; XCHSPOLE with XCHSPB mounting pole and bracket; SPXCH Solar panel kit (mounts to stainless steel enclosure); and (1) latching type solenoid per control valve. Install per manufacturer's specifications.
	HUNTER MINI-CLIK-C Rain Sensor with SG-MC Stainless Steel Sensor Guard.
	HUNTER PCZ-101-40 Drip Control Valve Kit (with 1" Valve, Filter and 40 PSI regulator); Install one valve per box per rectangular box, min. 12" clearance between valves. Install 1" bronze angle-type shut-off valve immediately upstream of control valve (see detail).
	Lateral Flush End Cap (in box)
<b>DRIP EMISSION DEVICES [as specified or equal]</b>	
Trees: Bowsmith ML210 Multi-outlet emitter (1) per tree, 6 outlets open, 12.0 GPH per tree	
Shrubs: Bowsmith SL210 Single-outlet emitter (1) per shrub, 1.0 GPH per shrub	

SLEEVE SCHEDULE	
SIZE / DESCRIPTION	
---	SCH 40 PVC Sleeve (size noted on plan) / Spears or equal
---	All pipe beneath pavement shall be sleeved

PIPE SCHEDULE	
SIZE AND DESCRIPTION	
---	EXST 1-1/2" SCH 40 PVC Mainline Located approx. 13' from back of curb
---	SCH 40 PVC Tree Lateral, 3/4"
---	SCH 40 PVC Shrub Lateral, 3/4"



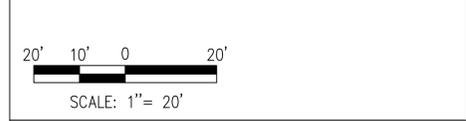
**NOTES**

PIPE SIZING PROVIDED FOR CONVENIENCE; CONTRACTOR SHALL ENSURE FLOW VELOCITY THROUGH MAINLINE AND LATERALS DOES NOT EXCEED 5.0 FPS.

IRRIGATION SYSTEM COMPONENTS AND SIZING ARE BASED ON AN ASSUMED MINIMUM AVAILABLE STATIC PRESSURE OF 60 P.S.I. CONTRACTOR SHALL FIELD TEST AVAILABLE PRESSURE PRIOR TO INSTALLATION AND NOTIFY OWNER AND LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCY.

ALL VALVES SHALL BE CONNECTED TO EXISTING IRRIGATION MAINLINE, AND CONNECTED TO NEW CONTROLLER WITH EXISTING IRRIGATION WIRING.

IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE OF LANDSCAPE AREAS FOR CLARITY ONLY. ALL COMPONENTS AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS UNLESS SLEEVED BENEATH PAVEMENT.



PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD IRRIGATION PLANS**

ENGINEER INFORMATION  
KIMLEY-HORN AND ASSOCIATES, INC.  
7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

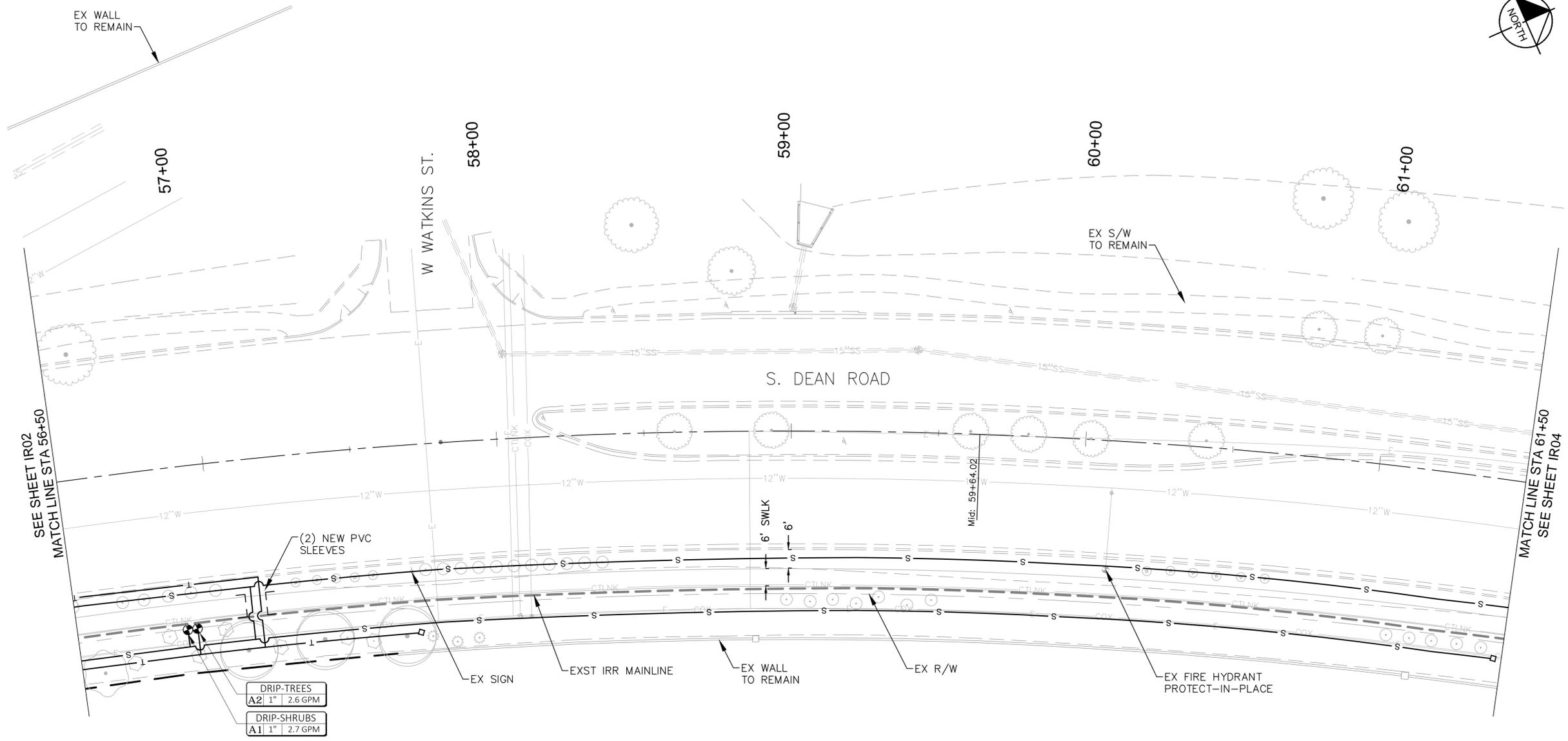
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL	



ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>IR02</b>
SHEET No. <b>29</b>	OF <b>39</b>

REVISIONS:	
1	
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**IRRIGATION LEGEND**

**MATERIALS AND EQUIPMENT**

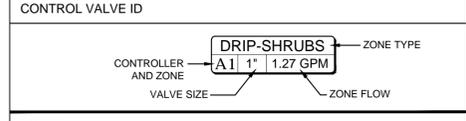
MANUFACTURER / MODEL / DESCRIPTION
Existing Irrigation Meter and Backflow Preventer
<b>[A]</b> HUNTER XCH-1200-SS, 12-Station controller in Stainless Steel Enclosure; XCHSPOLE with XCHSPB mounting pole and bracket; SPXCH Solar panel kit (mounts to stainless steel enclosure); and (1) latching type solenoid per control valve. Install per manufacturer's specifications.
<b>[RSD]</b> HUNTER MINI-CLIK-C Rain Sensor with SG-MC Stainless Steel Sensor Guard.
<b>[+]</b> HUNTER PCZ-101-40 Drip Control Valve Kit (with 1" Valve, Filter and 40 PSI regulator); Install one valve per box per rectangular box, min. 12" clearance between valves. Install 1" bronze angle-type shut-off valve immediately upstream of control valve (see detail).
<b>[◇]</b> Lateral Flush End Cap (in box)
<b>DRIP EMISSION DEVICES [as specified or equal]</b> Trees: Bowsmith ML210 Multi-outlet emitter (1) per tree, 6 outlets open, 12.0 GPHM per tree Shrubs: Bowsmith SL210 Single-outlet emitter (1) per shrub, 1.0 GPH per shrub

**SLEEVE SCHEDULE**

SIZE / DESCRIPTION
--- SCH 40 PVC Sleeve (size noted on plan) / Spears or equal
--- All pipe beneath pavement shall be sleeved

**PIPE SCHEDULE**

SIZE AND DESCRIPTION
--- EXST 1-1/2" SCH 40 PVC Mainline Located approx. 13' from back of curb
--- SCH 40 PVC Tree Lateral, 3/4"
--- SCH 40 PVC Shrub Lateral, 3/4"



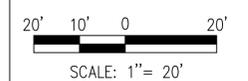
**NOTES**

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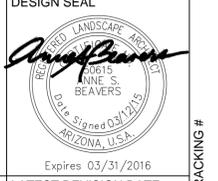
IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE OF LANDSCAPE AREAS FOR CLARITY ONLY. ALL COMPONENTS AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS UNLESS SLEEVED BENEATH PAVEMENT.



**PLAN NAME**  
**DEAN ROAD: RID CANAL TO YUMA RD IRRIGATION PLANS**

**ENGINEER INFORMATION**  
 KIMLEY-HORN AND ASSOCIATES, INC.  
 7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
 PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: FINAL
AS-BUILT SEAL	DESIGN SEAL	

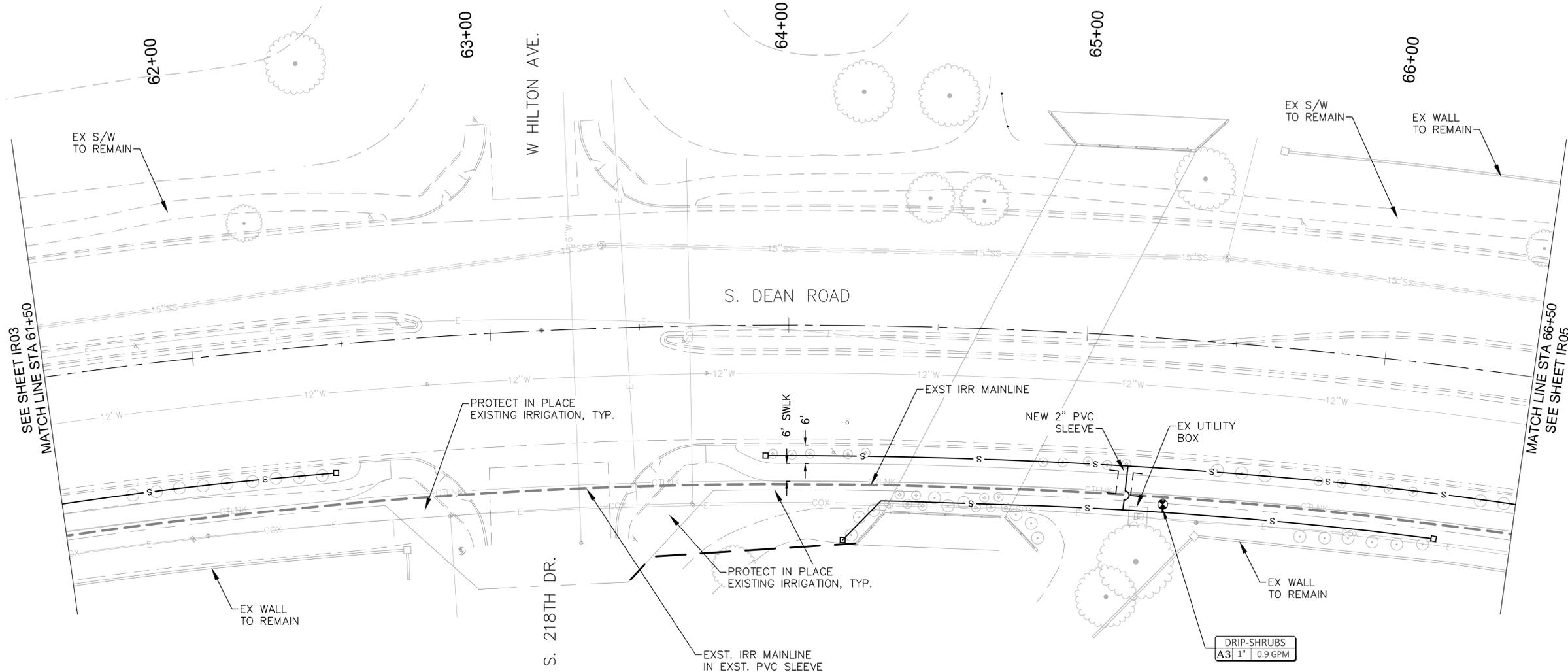


ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No. <b>IR03</b>	SHEET No. <b>30 OF 39</b>

**REVISIONS:**

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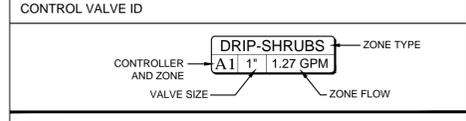


### IRRIGATION LEGEND

MATERIALS AND EQUIPMENT	
MANUFACTURER / MODEL / DESCRIPTION	
	Existing Irrigation Meter and Backflow Preventer
	HUNTER XCH-1200-SS, 12-Station controller in Stainless Steel Enclosure; XCHSPOLE with XCHSPB mounting pole and bracket; SPXCH Solar panel kit (mounts to stainless steel enclosure); and (1) latching type solenoid per control valve. Install per manufacturer's specifications.
	HUNTER MINI-CLIK-C Rain Sensor with SG-MC Stainless Steel Sensor Guard.
	HUNTER PCZ-101-40 Drip Control Valve Kit (with 1" Valve, Filter and 40 PSI regulator); Install one valve per box per rectangular box, min. 12" clearance between valves. Install 1" bronze angle-type shut-off valve immediately upstream of control valve (see detail).
	Lateral Flush End Cap (in box)
<b>DRIP EMISSION DEVICES [as specified or equal]</b>	
NOT SHOWN	Trees: Bowsmith ML210 Multi-outlet emitter (1) per tree, 6 outlets open, 12.0 GPH per tree Shrubs: Bowsmith SL210 Single-outlet emitter (1) per shrub, 1.0 GPH per shrub

SLEEVE SCHEDULE	
SIZE / DESCRIPTION	
---	SCH 40 PVC Sleeve (size noted on plan) / Spears or equal 2"; All pipe beneath pavement shall be sleeved 4";

PIPE SCHEDULE	
SIZE AND DESCRIPTION	
---	EXST 1-1/2" SCH 40 PVC Mainline Located approx. 13' from back of curb
---	SCH 40 PVC Tree Lateral, 3/4"
---	SCH 40 PVC Shrub Lateral, 3/4"



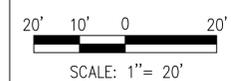
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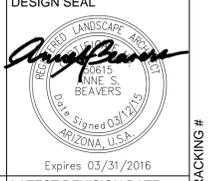
### PLAN NAME

**DEAN ROAD: RID CANAL TO YUMA RD IRRIGATION PLANS**

**ENGINEER INFORMATION**

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AS-BUILT SEAL	DESIGN SEAL	



ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. SHEET No.

**REVISIONS:**

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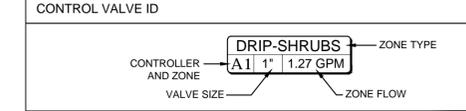
ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. SHEET No.

# IRRIGATION LEGEND

MATERIALS AND EQUIPMENT	
MANUFACTURER / MODEL / DESCRIPTION	
	Existing Irrigation Meter and Backflow Preventer
	HUNTER XCH-1200-SS, 12-Station controller in Stainless Steel Enclosure; XCHSPOLE with XCHSPB mounting pole and bracket; SPXCH Solar panel kit (mounts to stainless steel enclosure); and (1) latching type solenoid per control valve. Install per manufacturer's specifications.
	HUNTER MINI-CLIK-C Rain Sensor with SG-MC Stainless Steel Sensor Guard.
	HUNTER PCZ-101-40 Drip Control Valve Kit (with 1" Valve, Filter and 40 PSI regulator); Install one valve per box per rectangular box, min. 12" clearance between valves. Install 1" bronze angle-type shut-off valve immediately upstream of control valve (see detail).
	Lateral Flush End Cap (in box)
<b>DRIP EMISSION DEVICES [as specified or equal]</b>	
Trees: Bowsmith ML210 Multi-outlet emitter (1) per tree, 6 outlets open, 12.0 GPH per tree	
Shrubs: Bowsmith SL210 Single-outlet emitter (1) per shrub, 1.0 GPH per shrub	

SLEEVE SCHEDULE	
SIZE / DESCRIPTION	
---	SCH 40 PVC Sleeve (size noted on plan) / Spears or equal
---	All pipe beneath pavement shall be sleeved

PIPE SCHEDULE	
SIZE AND DESCRIPTION	
---	EXST 1-1/2" SCH 40 PVC Mainline Located approx. 13' from back of curb
T	SCH 40 PVC Tree Lateral, 3/4"
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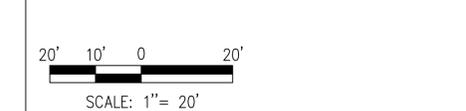
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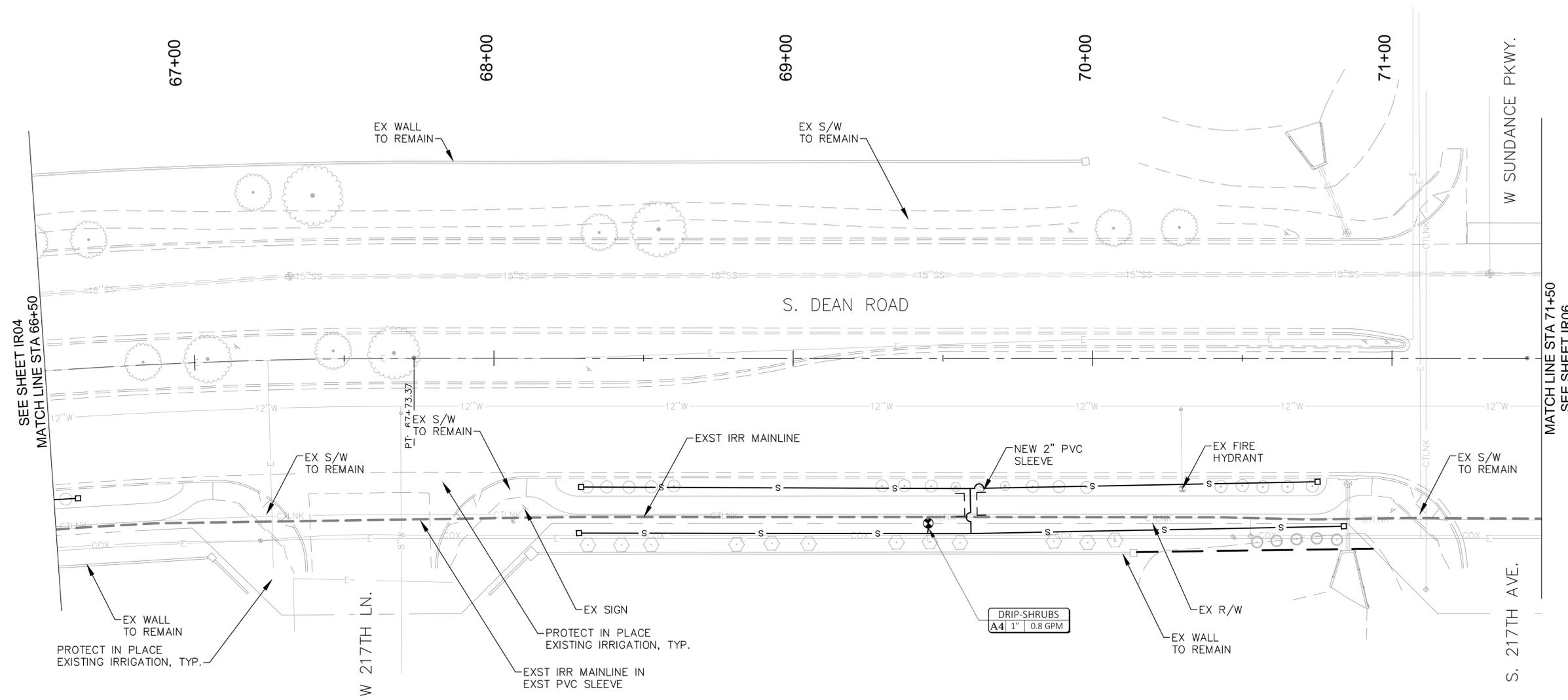
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AS-BUILT SEAL	DESIGN SEAL	



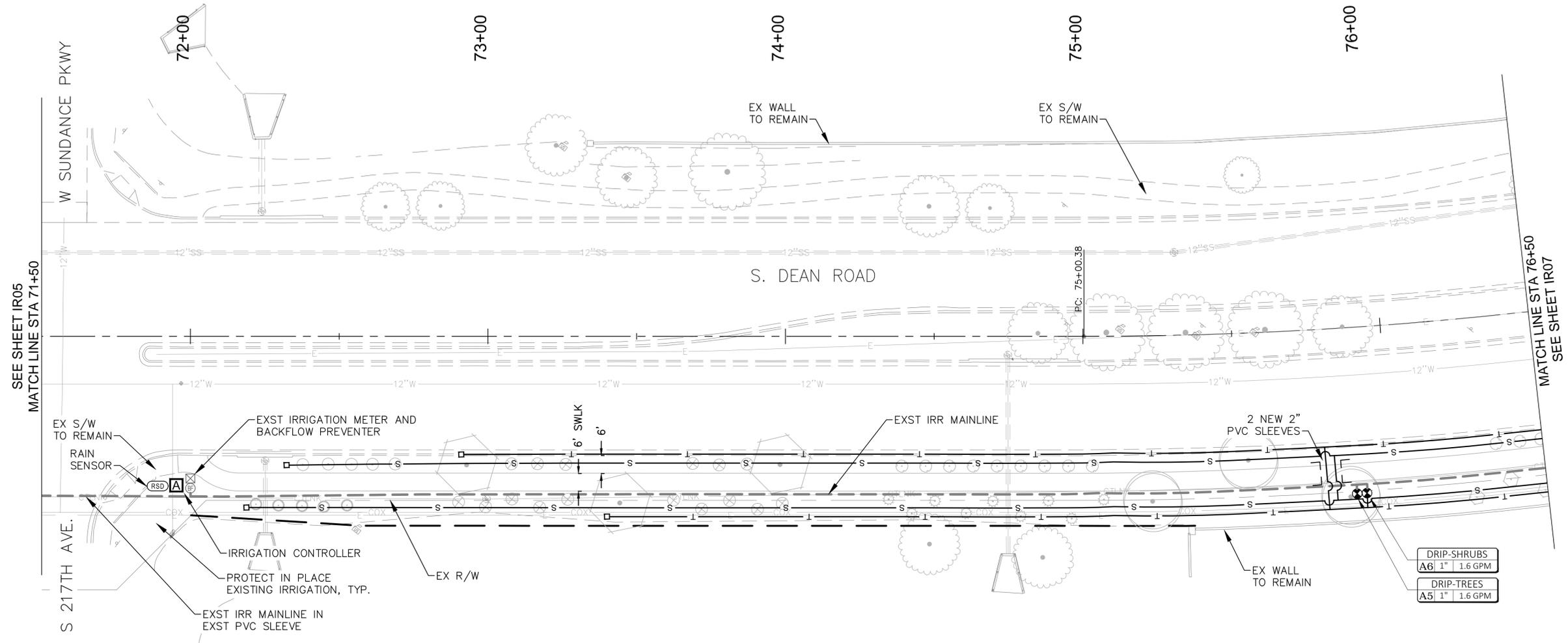
ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>IR05</b> SHEET No. <b>32 OF 39</b>

REVISIONS:

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SUNDANCE PARCEL 10

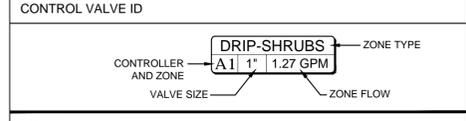


### IRRIGATION LEGEND

MATERIALS AND EQUIPMENT	
MANUFACTURER / MODEL / DESCRIPTION	
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	HUNTER MINI-CLIK-C Rain Sensor with SG-MC Stainless Steel Sensor Guard.
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	Lateral Flush End Cap (in box)
<b>DRIP EMISSION DEVICES [as specified or equal]</b>	
Trees: Bowsmith ML210 Multi-outlet emitter (1) per tree, 6 outlets open, 12.0 GPH per tree	
Shrubs: Bowsmith SL210 Single-outlet emitter (1) per shrub, 1.0 GPH per shrub	

SLEEVE SCHEDULE	
SIZE / DESCRIPTION	
---	SCH 40 PVC Sleeve (size noted on plan) / Spears or equal
---	All pipe beneath pavement shall be sleeved

PIPE SCHEDULE	
SIZE AND DESCRIPTION	
---	EXST 1-1/2" SCH 40 PVC Mainline Located approx. 13' from back of curb
---	SCH 40 PVC Tree Lateral, 3/4"
---	SCH 40 PVC Shrub Lateral, 3/4"



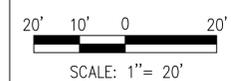
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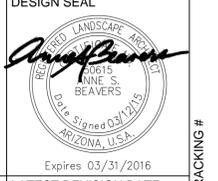
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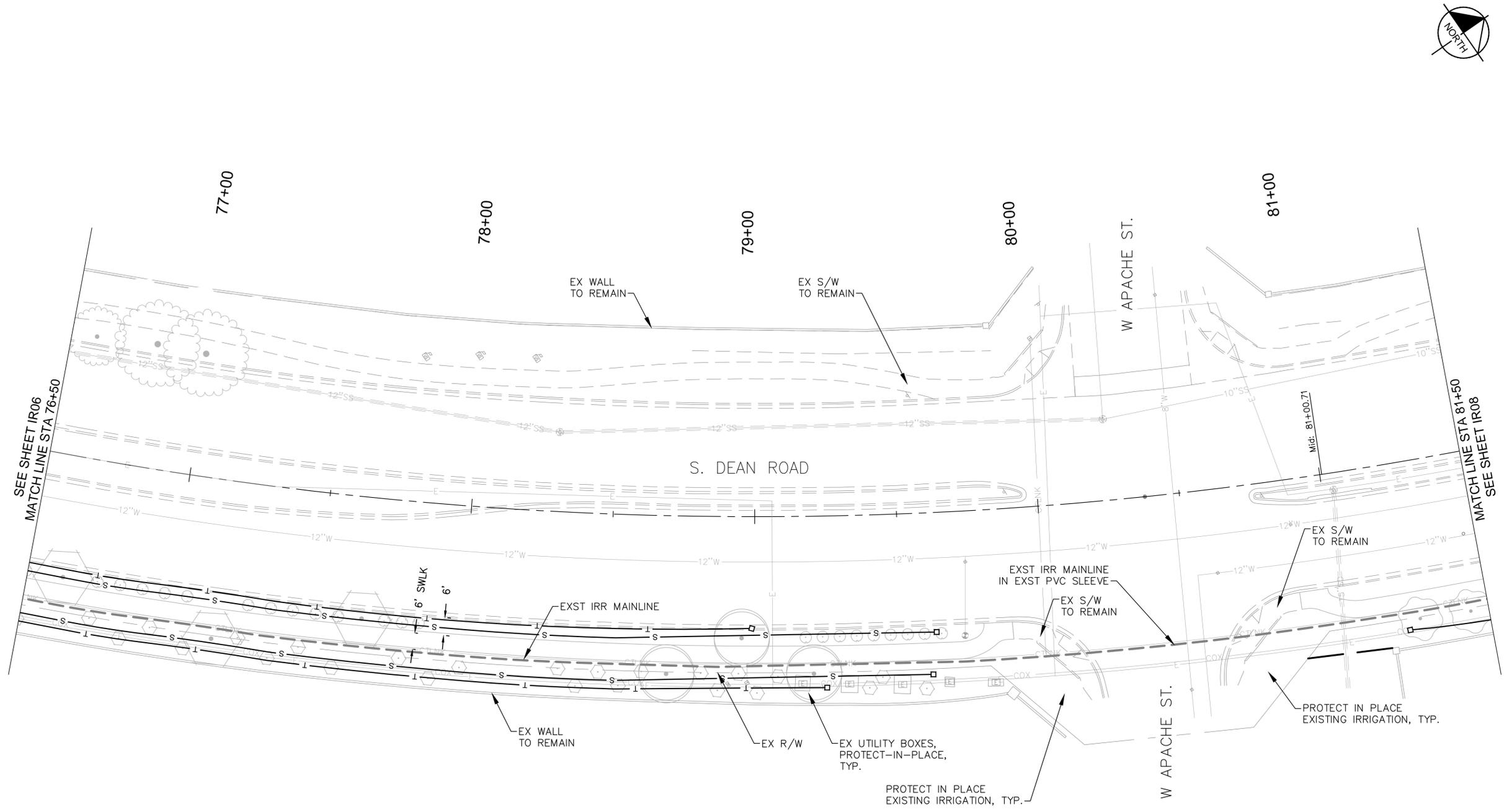
ORIGINAL PLAN DATE  
MARCH 12, 2015

LATEST REVISION DATE

PROJECT No.	SHEET ID.	SHEET No.
IR06	33	OF 39

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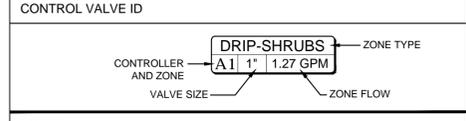


### IRRIGATION LEGEND

MATERIALS AND EQUIPMENT	
MANUFACTURER / MODEL / DESCRIPTION	
	Existing Irrigation Meter and Backflow Preventer
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	Lateral Flush End Cap (in box)
<b>DRIP EMISSION DEVICES [as specified or equal]</b>	
Trees: Bowsmith ML210 Multi-outlet emitter (1) per tree, 6 outlets open, 12.0 GPH per tree	
Shrubs: Bowsmith SL210 Single-outlet emitter (1) per shrub, 1.0 GPH per shrub	
NOT SHOWN	

SLEEVE SCHEDULE	
SIZE / DESCRIPTION	
---	SCH 40 PVC Sleeve (size noted on plan) / Spears or equal
---	All pipe beneath pavement shall be sleeved

PIPE SCHEDULE	
SIZE AND DESCRIPTION	
---	EXST 1-1/2" SCH 40 PVC Mainline Located approx. 13' from back of curb
---	SCH 40 PVC Tree Lateral, 3/4"
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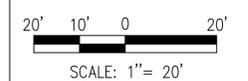
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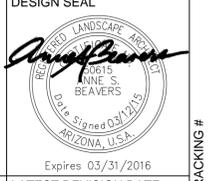
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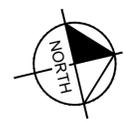
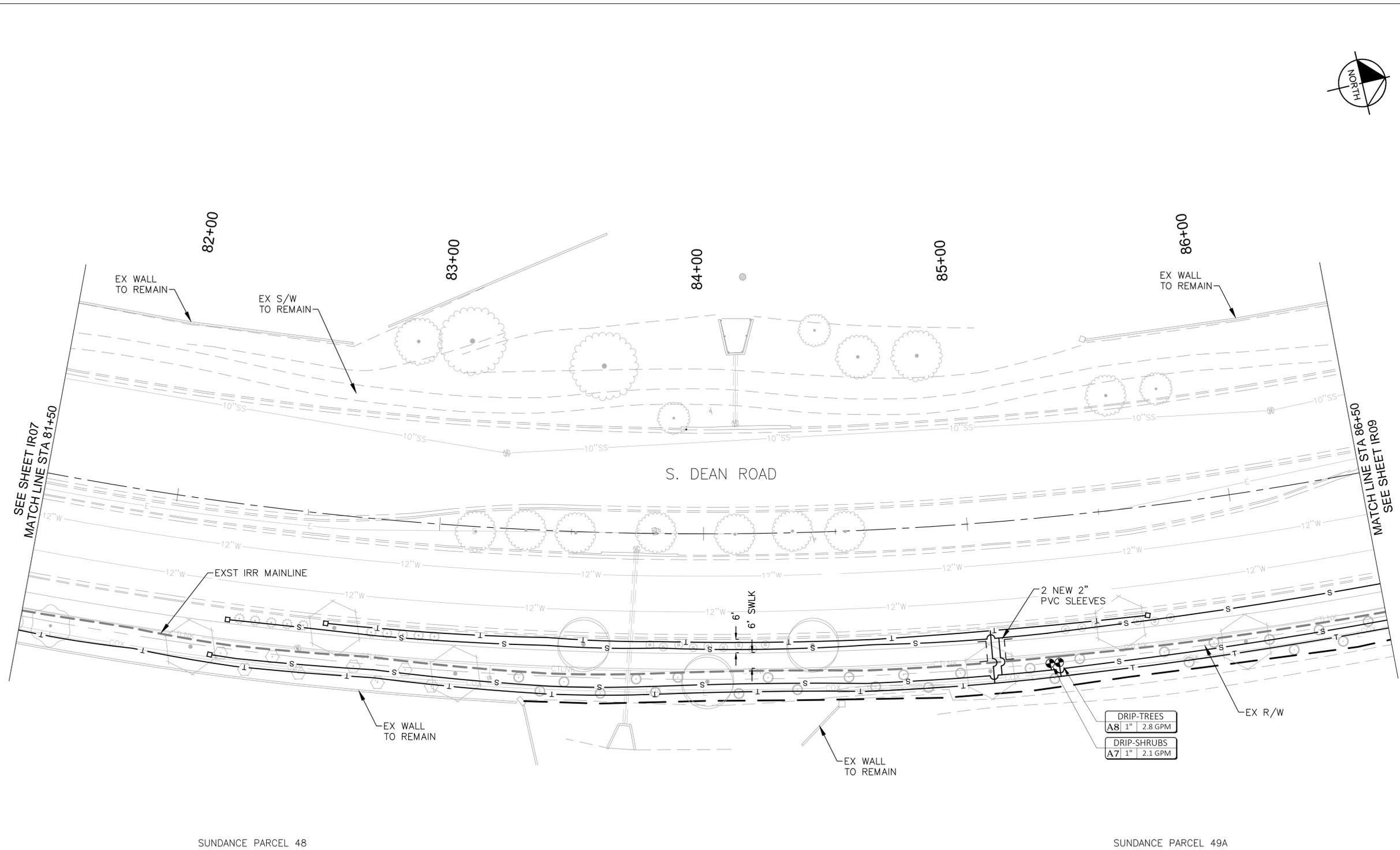


ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID.
	SHEET No.

REVISIONS:	
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PROJECT No.	SHEET ID.	SHEET No.
	<b>1R07</b>	<b>34 OF 39</b>



### IRRIGATION LEGEND

MATERIALS AND EQUIPMENT	
MANUFACTURER / MODEL / DESCRIPTION	
	Existing Irrigation Meter and Backflow Preventer
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	Lateral Flush End Cap (in box)
<b>DRIP EMISSION DEVICES [as specified or equal]</b>	
Trees: Bowsmith ML210 Multi-outlet emitter (1) per tree, 6 outlets open, 12.0 GPH per tree	
Shrubs: Bowsmith SL210 Single-outlet emitter (1) per shrub, 1.0 GPH per shrub	

SLEEVE SCHEDULE	
SIZE / DESCRIPTION	
---	SCH 40 PVC Sleeve (size noted on plan) / Spears or equal
---	All pipe beneath pavement shall be sleeved

PIPE SCHEDULE	
SIZE AND DESCRIPTION	
---	EXST 1-1/2" SCH 40 PVC Mainline Located approx. 13' from back of curb
T	SCH 40 PVC Tree Lateral, 3/4"
S	SCH 40 PVC Shrub Lateral, 3/4"

CONTROL VALVE ID	
CONTROLLER AND ZONE	DRIP-SHRUBS
VALVE SIZE	1" 1.27 GPM
ZONE TYPE	
ZONE FLOW	

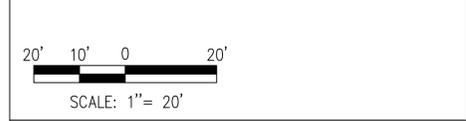
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AS-BUILT SEAL	DESIGN SEAL	



ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>1R08</b>
SHEET No. <b>35</b>	OF <b>39</b>

REVISIONS:	
1	
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# IRRIGATION LEGEND

**MATERIALS AND EQUIPMENT**

**MANUFACTURER / MODEL / DESCRIPTION**

- ⊗ Existing Irrigation Meter and Backflow Preventer
- ⊠ HUNTER XCH-1200-SS, 12-Station controller in Stainless Steel Enclosure; XCHSPOLE with XCHSPB mounting pole and bracket; SPXCH Solar panel kit (mounts to stainless steel enclosure); and (1) latching type solenoid per control valve. Install per manufacturer's specifications.
- ⊕ HUNTER MINI-CLIK-C Rain Sensor with SG-MC Stainless Steel Sensor Guard.
- ⊕ HUNTER PCZ-101-40 Drip Control Valve Kit (with 1" Valve, Filter and 40 PSI regulator); Install one valve per box per rectangular box, min. 12" clearance between valves. Install 1" bronze angle-type shut-off valve immediately upstream of control valve (see detail).
- ◇ Lateral Flush End Cap (in box)

**DRIP EMISSION DEVICES [as specified or equal]**

- Trees: Bowsmith ML210 Multi-outlet emitter (1) per tree, 6 outlets open, 12.0 GPHM per tree
- Shrubs: Bowsmith SL210 Single-outlet emitter (1) per shrub, 1.0 GPH per shrub

NOT SHOWN

**SLEEVE SCHEDULE**

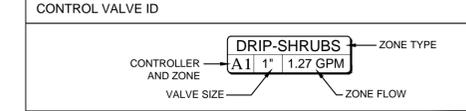
**SIZE / DESCRIPTION**

- SCH 40 PVC Sleeve (size noted on plan) / Spears or equal
- All pipe beneath pavement shall be sleeved

**PIPE SCHEDULE**

**SIZE AND DESCRIPTION**

- EXST 1-1/2" SCH 40 PVC Mainline Located approx. 13' from back of curb
- T SCH 40 PVC Tree Lateral, 3/4"
- s SCH 40 PVC Shrub Lateral, 3/4"



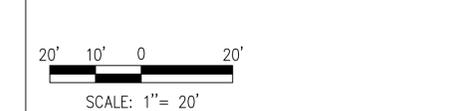
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AS-BUILT SEAL	DESIGN SEAL	

ORIGINAL PLAN DATE  
 MARCH 12, 2015

LATEST REVISION DATE

PROJECT No. **IR09**

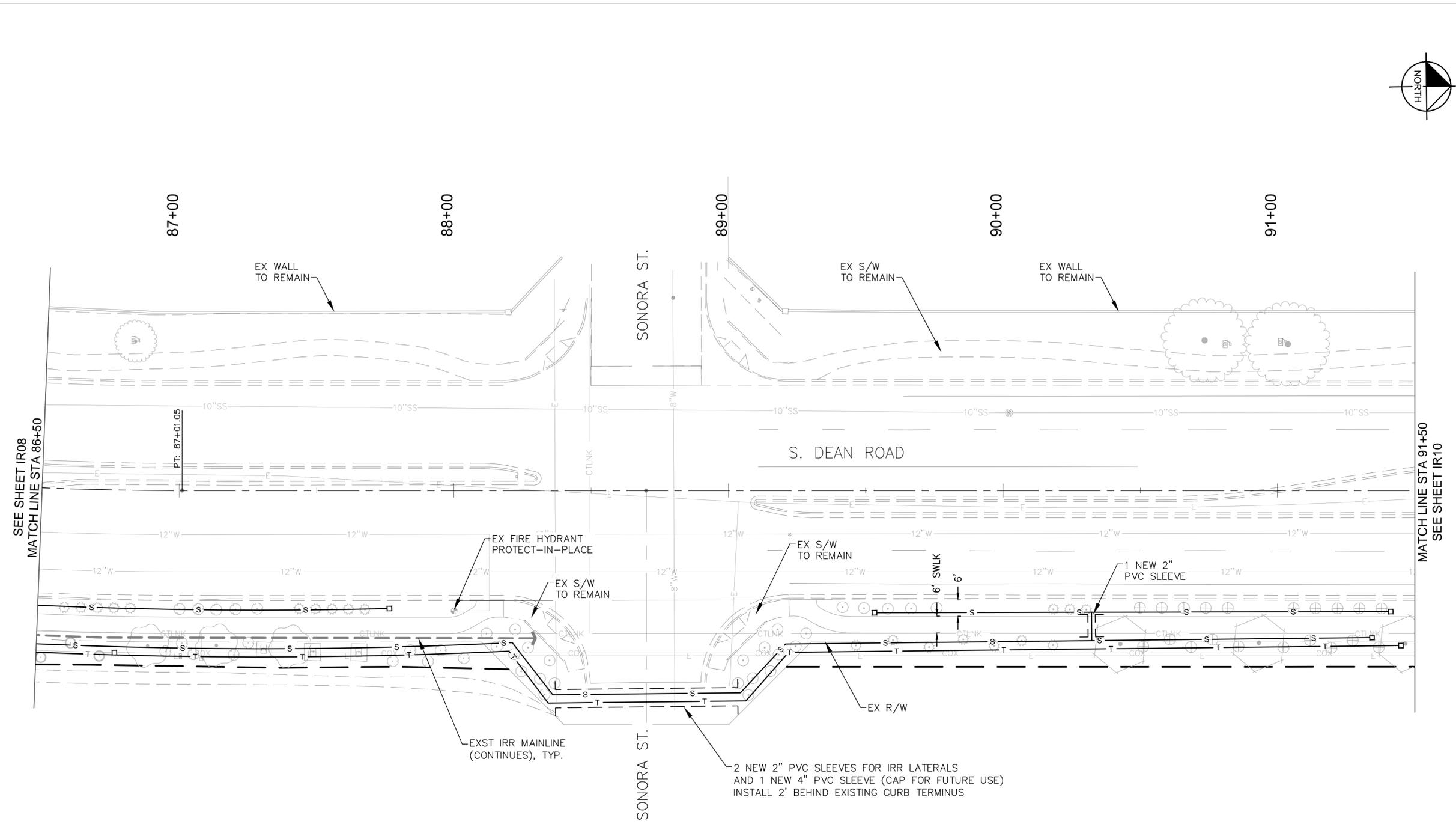
SHEET ID. **36** OF **39**

SHEET No. **36** OF **39**

Expires 03/31/2016

**REVISIONS:**

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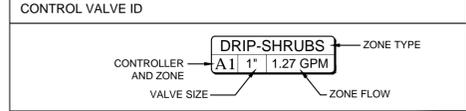


### IRRIGATION LEGEND

MATERIALS AND EQUIPMENT	
MANUFACTURER / MODEL / DESCRIPTION	
	Existing Irrigation Meter and Backflow Preventer
	HUNTER XCH-1200-SS, 12-Station controller in Stainless Steel Enclosure; XCHSPOLE with XCHSPB mounting pole and bracket; SPXCH Solar panel kit (mounts to stainless steel enclosure); and (1) latching type solenoid per control valve. Install per manufacturer's specifications.
	HUNTER MINI-CLIK-C Rain Sensor with SG-MC Stainless Steel Sensor Guard.
	HUNTER PCZ-101-40 Drip Control Valve Kit (with 1" Valve, Filter and 40 PSI regulator); Install one valve per box per rectangular box, min. 12" clearance between valves. Install 1" bronze angle-type shut-off valve immediately upstream of control valve (see detail).
	Lateral Flush End Cap (in box)
<b>DRIP EMISSION DEVICES [as specified or equal]</b>	
Trees: Bowsmith ML210 Multi-outlet emitter (1) per tree, 6 outlets open, 12.0 GPHM per tree	
Shrubs: Bowsmith SL210 Single-outlet emitter (1) per shrub, 1.0 GPH per shrub	

SLEEVE SCHEDULE	
SIZE / DESCRIPTION	
---	SCH 40 PVC Sleeve (size noted on plan) / Spears or equal
---	All pipe beneath pavement shall be sleeved

PIPE SCHEDULE	
SIZE AND DESCRIPTION	
---	EXST 1-1/2" SCH 40 PVC Mainline Located approx. 13' from back of curb
---	SCH 40 PVC Tree Lateral, 3/4"
---	SCH 40 PVC Shrub Lateral, 3/4"



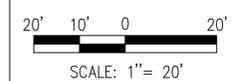
**NOTES**

PIPE SIZING PROVIDED FOR CONVENIENCE; CONTRACTOR SHALL ENSURE FLOW VELOCITY THROUGH MAINLINE AND LATERALS DOES NOT EXCEED 5.0 FPS.

IRRIGATION SYSTEM COMPONENTS AND SIZING ARE BASED ON AN ASSUMED MINIMUM AVAILABLE STATIC PRESSURE OF 60 P.S.I. CONTRACTOR SHALL FIELD TEST AVAILABLE PRESSURE PRIOR TO INSTALLATION AND NOTIFY OWNER AND LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCY.

ALL VALVES SHALL BE CONNECTED TO EXISTING IRRIGATION MAINLINE, AND CONNECTED TO NEW CONTROLLER WITH EXISTING IRRIGATION WIRING.

IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE OF LANDSCAPE AREAS FOR CLARITY ONLY. ALL COMPONENTS AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS UNLESS SLEEVED BENEATH PAVEMENT.



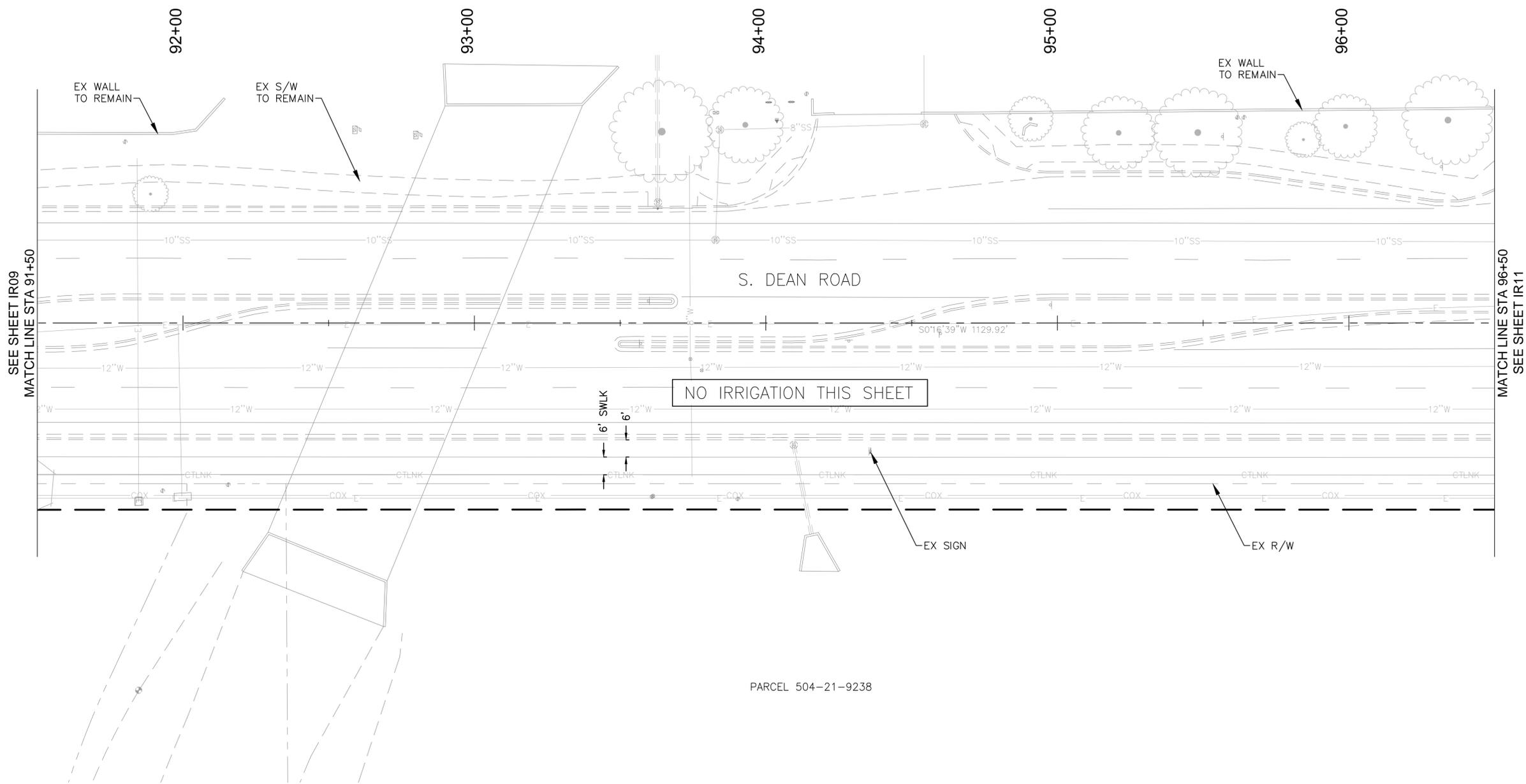
PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD IRRIGATION PLANS**

ENGINEER INFORMATION  
KIMLEY-HORN AND ASSOCIATES, INC.  
7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

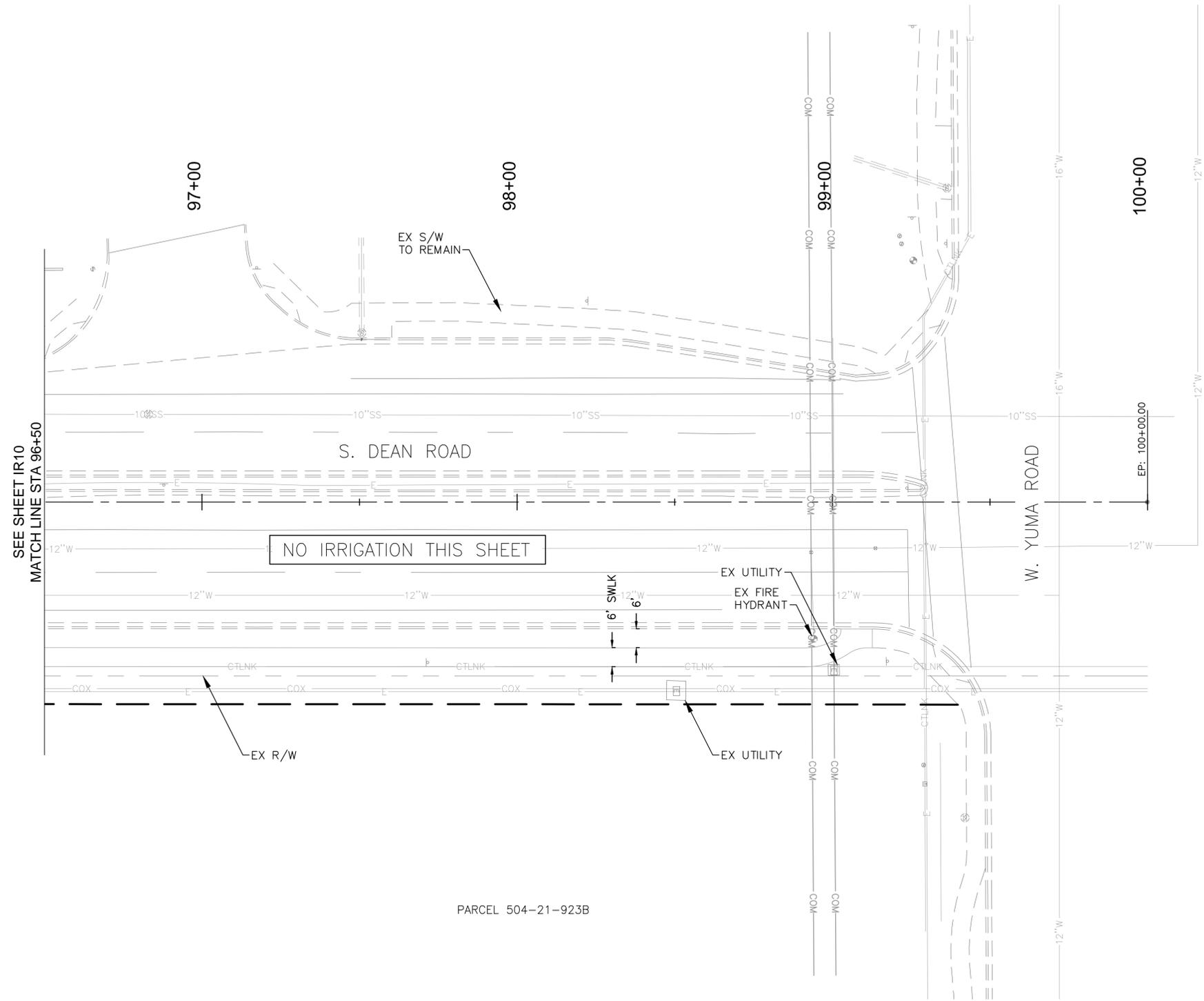
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL	
		COB PLAN TRACKING #
ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE	COB PERMIT #
PROJECT No.	SHEET ID. <b>IR 10</b>	SHEET No. <b>37 OF 39</b>

REVISIONS:

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PARCEL 504-21-9238

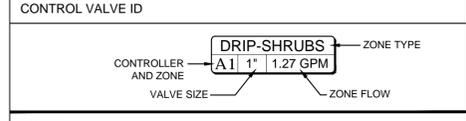


### IRRIGATION LEGEND

MATERIALS AND EQUIPMENT	
MANUFACTURER / MODEL / DESCRIPTION	
	Existing Irrigation Meter and Backflow Preventer
	HUNTER XCH-1200-SS, 12-Station controller in Stainless Steel Enclosure; XCHSPOLE with XCHSPB mounting pole and bracket; SPXCH Solar panel kit (mounts to stainless steel enclosure); and (1) latching type solenoid per control valve. Install per manufacturer's specifications.
	HUNTER MINI-CLIK-C Rain Sensor with SG-MC Stainless Steel Sensor Guard.
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	Lateral Flush End Cap (in box)
<b>DRIP EMISSION DEVICES [as specified or equal]</b>	
Trees: Bowsmith ML210 Multi-outlet emitter (1) per tree, 6 outlets open, 12.0 GPH per tree	
NOT SHOWN Shrubs: Bowsmith SL210 Single-outlet emitter (1) per shrub, 1.0 GPH per shrub	

SLEEVE SCHEDULE	
SIZE / DESCRIPTION	
---	SCH 40 PVC Sleeve (size noted on plan) / Spears or equal
---	All pipe beneath pavement shall be sleeved

PIPE SCHEDULE	
SIZE AND DESCRIPTION	
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T	SCH 40 PVC Tree Lateral, 3/4"
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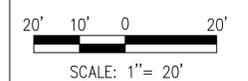
**NOTES**

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PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD IRRIGATION PLANS**

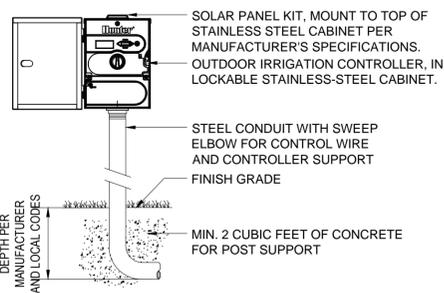
ENGINEER INFORMATION  
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7740 N 16TH ST, STE 300, PHOENIX, AZ 85020  
PHONE:(602)944-5500, FAX:(602)944-7423

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: <b>FINAL</b>
AS-BUILT SEAL	DESIGN SEAL	
		COB PLAN TRACKING #

ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>IR 11</b>
SHEET No. <b>38 OF 39</b>	COB PERMIT #

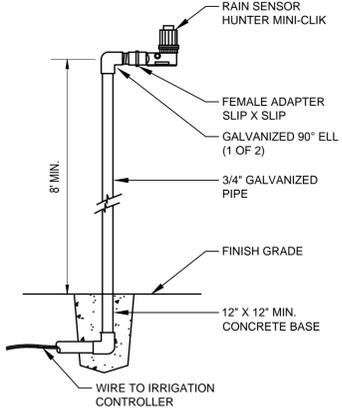
REVISIONS:	



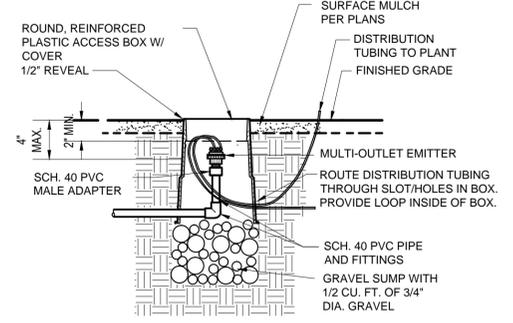


- NOTES:**
- COORDINATE INSTALLATION OF IRRIGATION CONTROLLER WITH OWNER'S REPRESENTATIVE. BEFORE INSTALLATION, OBTAIN APPROVAL FOR CONTROLLER LOCATION.
  - MOUNT WITH LCD SCREEN AT EYE LEVEL PER MANUFACTURER'S WRITTEN INSTRUCTIONS OR PER APPROVED SHOP DRAWINGS.

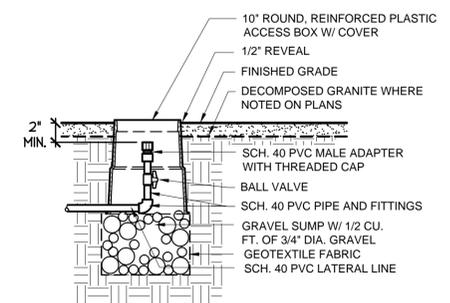
**1 IRRIGATION CONTROLLER IN PEDESTAL ENCLOSURE**  
SCALE: N.T.S.



**4 RAIN SENSOR**  
SCALE: N.T.S.

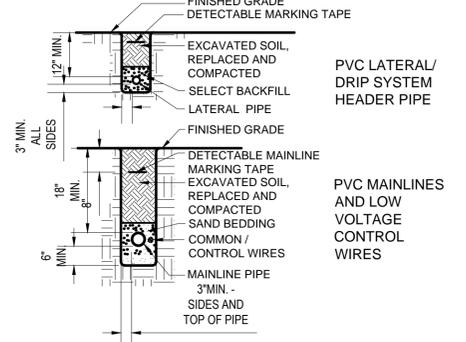


**7 MULTI-OUTLET EMITTER**  
SCALE: N.T.S.



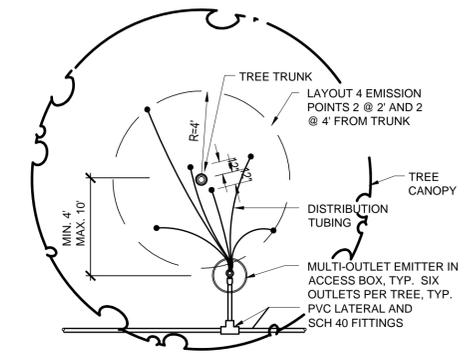
**10 LATERAL FLUSHING END CAP**  
SCALE: N.T.S.

- NOTES:**
- SELECT BACKFILL SHALL BE SAND OR SOIL FREE OF ROCKS AND STONES LARGER THAN 1/4" DIA. BACKFILL MATERIAL SHALL BE WATERED IN AND COMPACTED TO DENSITY OF ADJACENT UNDISTURBED SOIL.

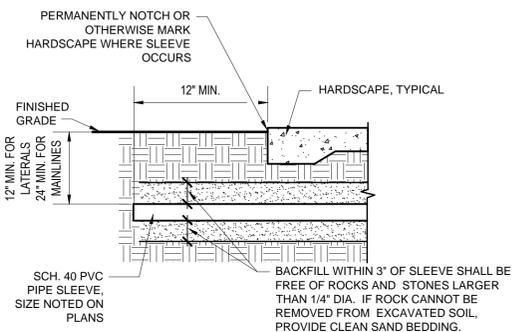


**5 PIPE TRENCHING AND BACKFILL - MAINLINE, LATERALS, AND MARKING TAPE**  
SCALE: N.T.S.

- NOTES:**
- LENGTH OF DISTRIBUTION TUBING SHALL NOT EXCEED 12'-0". REFER TO LOCAL JURISDICTIONAL REQUIREMENTS; MAXIMUM ALLOWABLE LENGTH MAY BE LESS.
  - LAYOUT DISTRIBUTION TUBING AS SHOWN AND LOCATE DISCHARGE POINT 2" ABOVE FINISHED GRADE.

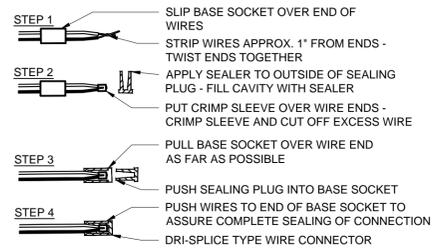


**8 EMITTER DISTRIBUTION TUBING LAYOUT - TREES**  
SCALE: N.T.S.



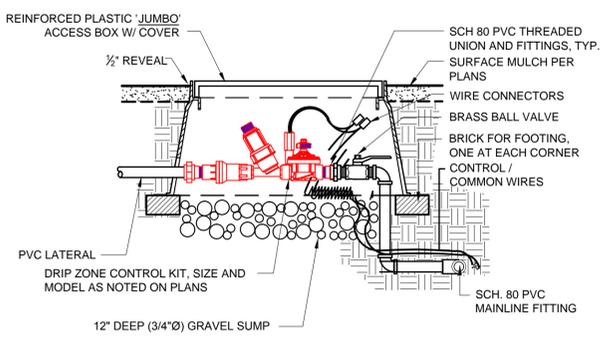
**11 MAINLINE AND LATERAL PIPE SLEEVING**  
SCALE: N.T.S.

- NOTES:**
- FOR WIRE SIZES NO. 14, 12, AND 10, ALL CONNECTIONS IN VALVE BOXES ONLY.
  - INSTALL SPEARS DS-100 DRI-SPLICE CONNECTORS WITH DS-300 SEALANT.

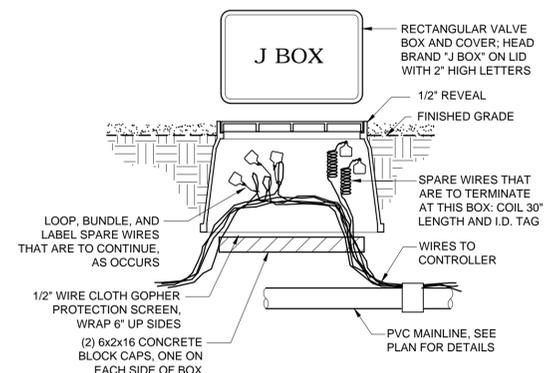


**2 IRRIGATION WIRE CONNECTION**  
SCALE: N.T.S.

- NOTES:**
- ALL WIRES TO BE INSTALLED PER LOCAL CODE. TAPE AND BUNDLE WIRES EVERY 7'. PROVIDE EXPANSION COIL AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 1/2" Ø PIPE 15 TIMES).
  - COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS ADJACENT UNDISTURBED SOIL.
  - ALL THREADED PVC JOINTS SHALL BE WRAPPED WITH TEFLON TAPE.

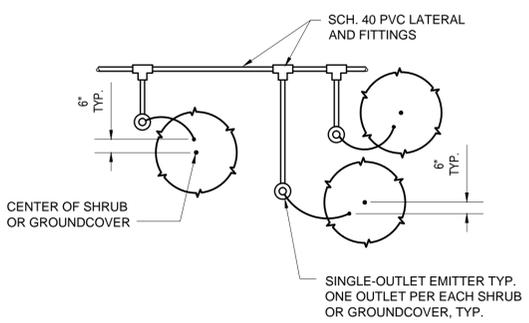


**3 DRIP ZONE CONTROL KIT**  
SCALE: N.T.S.



**6 IRRIGATION WIRING JUNCTION BOX**  
SCALE: N.T.S.

- NOTES:**
- LENGTH OF DISTRIBUTION TUBING SHALL NOT EXCEED 12'-0". REFER TO LOCAL JURISDICTIONAL REQUIREMENTS; MAXIMUM ALLOWABLE LENGTH MAY BE LESS.
  - LAYOUT DISTRIBUTION TUBING AS SHOWN AND LOCATE DISCHARGE POINT 2" ABOVE FINISHED GRADE.



**9 EMITTER DISTRIBUTION TUBING LAYOUT - SHRUBS**  
SCALE: N.T.S.

REVISIONS:	
1	
2	
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PLAN NAME  
**DEAN ROAD: RID CANAL TO YUMA RD IRRIGATION DETAILS**

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AS-BUILT SEAL	DESIGN SEAL	



ORIGINAL PLAN DATE MARCH 12, 2015	LATEST REVISION DATE
PROJECT No.	SHEET ID. <b>IR 12</b>
	SHEET No. <b>39 OF 39</b>

CALL TWO WORKING DAYS BEFORE YOU DIG  
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