

FLOREO AT TERAVALIS COLLECTORS - PHASE 2 PAVING PLAN

BUCKEYE, ARIZONA

A PORTION OF SECTION 18, TOWNSHIP 3 NORTH, RANGE 4 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA

ENGINEER

HILGARTWILSON, LLC
2141 E. HIGHLAND AVENUE SUITE 250
PHOENIX, AZ 85016
PHONE: (602) 490-0535
FAX: (602) 368-2436
CONTACT: JOSHUA ROBINSON
EMAIL: JROBINSON@HILGARTWILSON.COM

LANDSCAPE ARCH.

ABLA
310 EAST RIO SALADO PARKWAY
TEMPE, ARIZONA 85281
CONTACT: BRIAN ROGERS
PHONE: (480)-530-0387
EMAIL: BRIAN.ROGERS@ABLASTUDIO.COM

BASIS OF BEARING

THE NORTH LINE OF NORTHEAST QUARTER OF SECTION 17, TOWNSHIP 1 SOUTH, RANGE 2 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA. BEARING SOUTH 89°55'49" EAST

APPROVALS

DISCLAIMER:

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS & 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 / P.E. _____ DATE _____

ARIZONA REGISTRATION NUMBER _____

TELEPHONE NUMBER _____

REVISED APPROVAL

DISCLAIMER:

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

BUCKEYE CITY ENGINEER _____ DATE _____

OWNER/DEVELOPER

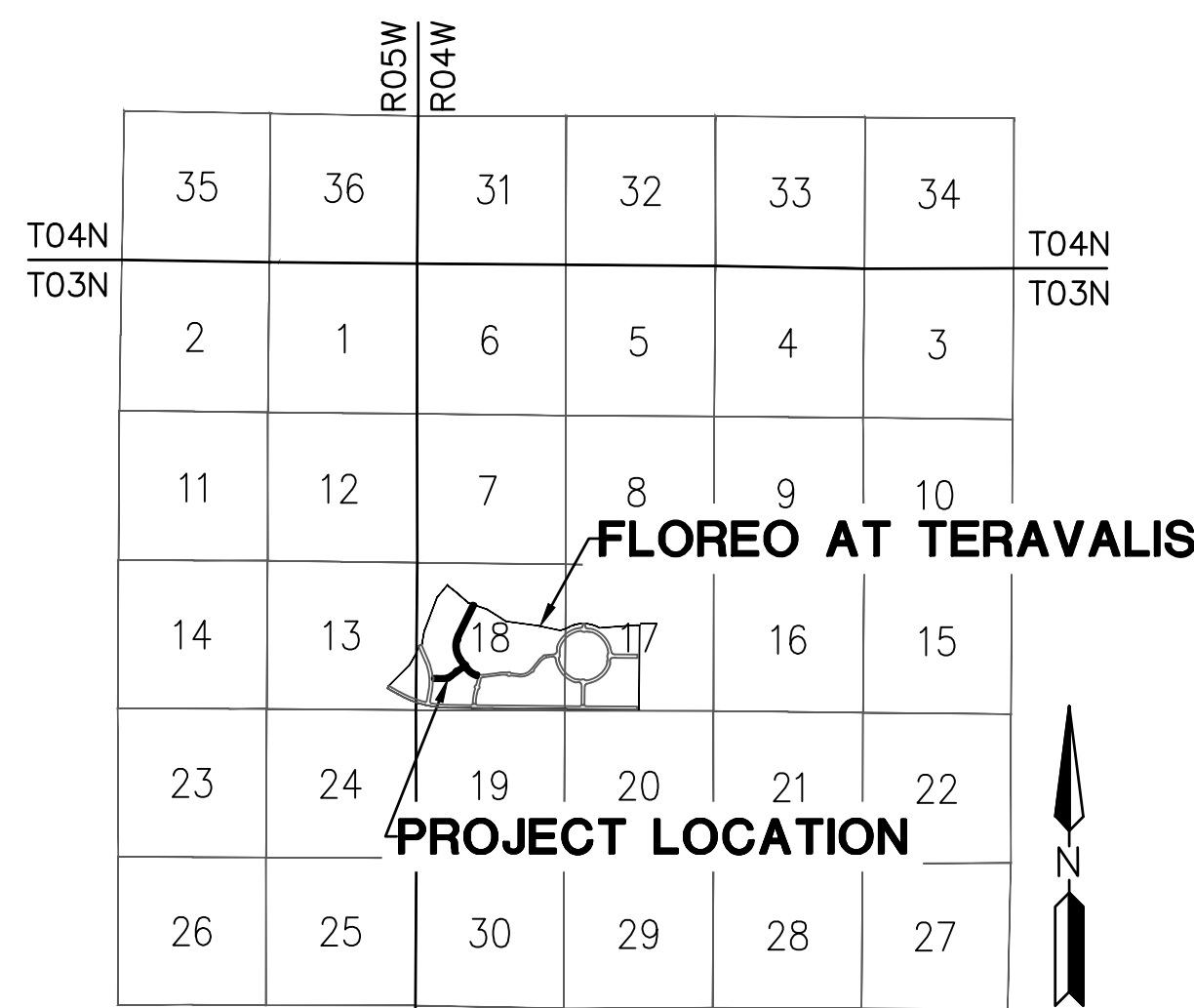
TRILLIUM LAND COMPANY, LLC
4150 N. DRINKWATER BLVD, SUITE 100
SCOTTSDALE, AZ 85251
CONTACT: HEATH MELTON
PHONE: (602) 834-9115
EMAIL: HEATH.MELTON@HOWARDHUGHES.COM
CONTACT: BRAD HINTON
PHONE: (602) 955-2424
EMAIL: BHINTON@ELDORADOHOLDINGS.NET

SHEET INDEX

CV01	COVER SHEET
DT01	KEY MAP & LEGEND
DT02-03	NOTES & DETAILS
PV01-07	PAVING PLAN & PROFILE SHEETS
PV08-11	PAVING PLAN MEDIUM DETAILS
SD01	STORM DRAIN PROFILES
SD02	BOX CULVERT PLAN & PROFILE
SD03-04	BOX CULVERT NOTES & DETAILS

BENCHMARK

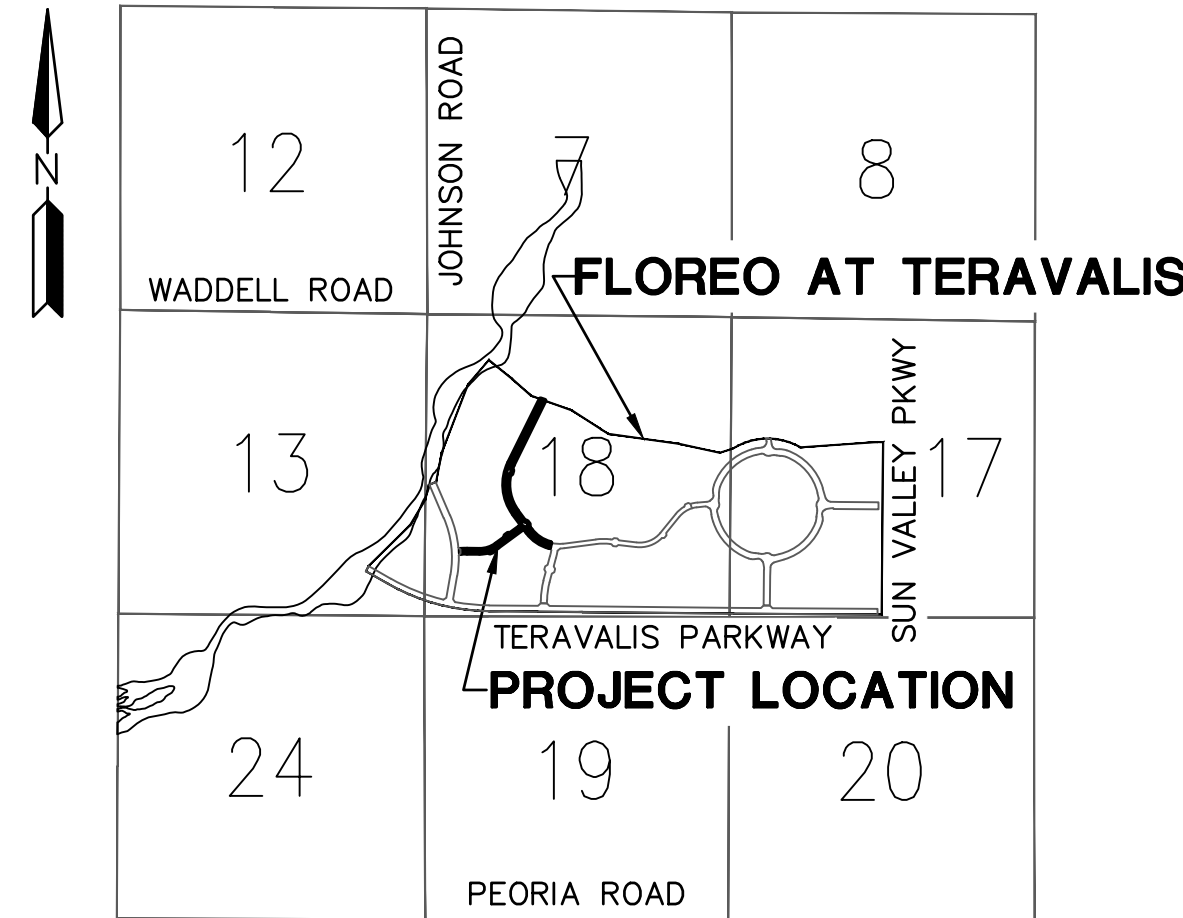
MCDOT POINT NO. 30527-1, BEING A 3" BRASS CAP IN HANDHOLE, LOCATED AT THE INTERSECTION OF ELLIOT ROAD & SUN VALLEY ROAD HAVING AN ELEVATION OF 919.785" (NAVD88)



VICINITY MAP

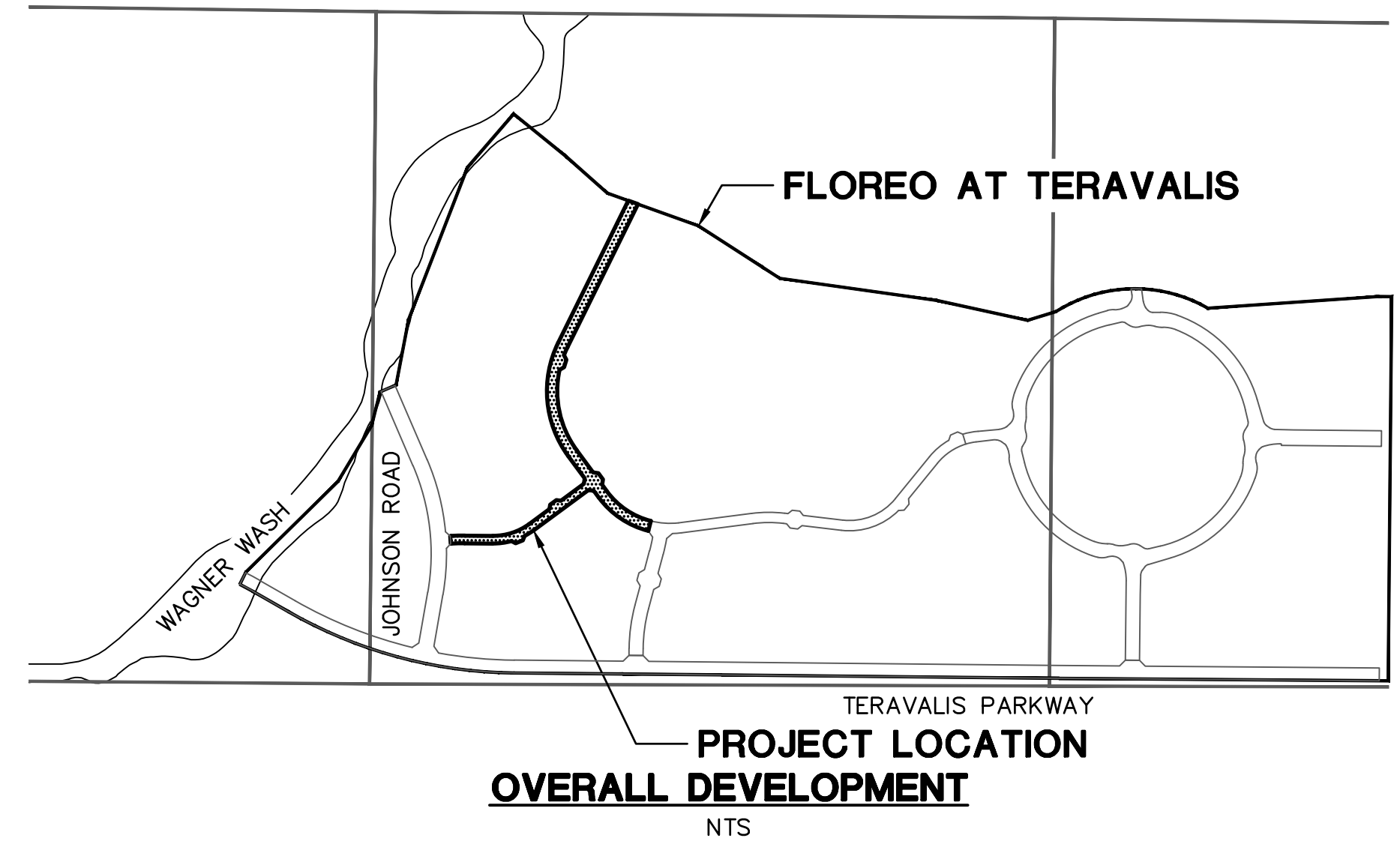
NTS

GREENWAY ROAD ALIGNMENT



LOCATION MAP

NTS



OVERALL DEVELOPMENT

NTS

ENGINEERS ESTIMATED PUBLIC QUANTITIES

NOTE: ENGINEERS ESTIMATED QUANTITIES ARE NOT FOR BIDDING PROPOSES. CONTRACTOR SHALL BASE THEIR BID ON THEIR OWN QUANTITY TAKEOFFS.

PAVING CONSTRUCTION

- | | | | |
|----|--|-------|----|
| 2 | INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'. | 17 | EA |
| 5 | INSTALL PAVEMENT 3" AC OVER 8" ABC; SEE TYPICAL STREET SECTION ON DT03. | 5190 | SY |
| 6 | INSTALL PAVEMENT 6" AC (2" OF A 12.5MM RESIDENTIAL OVER 4" OF A 19.0MM ARTERIAL SUPERPAVE) OVER 10" ABC; SEE TYPICAL SECTION ON SHEET DT03 | 9246 | SY |
| 9 | CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A. | 8078 | LF |
| 12 | CONSTRUCT 5' SIDEWALK; MAG STD DTL 230. | 42779 | SF |
| 14 | CONSTRUCT SIDEWALK CURB RAMP; MAG STD DTL 235-2, TYPE 'B', SEE DT01 FOR DETAIL. | 4 | EA |
| 16 | CONSTRUCT MID-BLOCK RAMP WITH 6" CURB; MAG STD DTL 238-2. | 2 | EA |
| 17 | CONSTRUCT 6' CONCRETE VALLEY GUTTER & APRON; MAG STD DTL 240 WITH FIBER MESH. | 4727 | SF |
| 19 | ADJUST WATER VALVE BOX & COVER PER MAG DTL 391-2. | 29 | EA |
| 20 | ADJUST MANHOLE FRAME & COVER PER MAG STD DTL 422 AND COB DTL 41260. | 20 | EA |
| 21 | INSTALL FIRE HYDRANT PAVEMENT MARKER; PER COB DTL 31440. | 4 | EA |
| 25 | INSTALL BARRICADE; MAG STD DTL 130 TYPE "A". | 97 | LF |
| 26 | REMOVE EXISTING BARRICADE. | 35 | LF |
| 27 | CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A, WITH DEPRESSED LIP. | 5835 | LF |
| 37 | CONSTRUCT 80 MM INTERLOCKING CONCRETE PAVERS PER COB DTL 632206; 10' MIN. LENGTH PER COB STD. DTL. 63220. | 7 | EA |
| 38 | INSTALL STREET SIGN POST; PER COB DTL 65120. | 9 | EA |
| 41 | INSTALL 6" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS. | 362 | LF |
| 62 | CONSTRUCT 6" MOUNTABLE CURB & GUTTER, PER MAG STD DTL 220-2, TYPE E. | 24 | LF |
| 63 | CONSTRUCT 2' CURB TRANSITION TYPE "E" TO TYPE "A" PER MAG STD DTL 220-2. | 2 | EA |
| 65 | CONSTRUCT DIRECTIONAL SIDEWALK RAMPS PER COB STD DTL 63240. | 4 | EA |
| 66 | CONSTRUCT DIRECTIONAL SIDEWALK RAMPS PER COB STD DTL 63240, MODIFIED FOR A SINGLE RAMP. | 6 | EA |

STORM DRAIN CONSTRUCTION

- | | | | |
|----|---|-----|----|
| 4 | PLACE LOOSE RIP-RAP D50=3", THICKNESS 8" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP RAP DETAIL ON DT03 | 16 | SY |
| 12 | INSTALL 18" RGRCP STORM DRAIN, CLASS V | 296 | LF |
| 13 | INSTALL 18" RGRCP STORM DRAIN, CLASS IV | 449 | LF |
| 16 | INSTALL 24" RGRCP STORM DRAIN, CLASS V | 55 | LF |
| 19 | INSTALL 30" RGRCP STORM DRAIN, CLASS IV. | 31 | LF |
| 24 | CONSTRUCT CATCH BASIN; PER COB DTL B-510A & B-510B; SIZE PER PLAN | 10 | EA |
| 50 | PLACE LOOSE RIP-RAP D50=6", THICKNESS 15" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP RAP DETAIL ON DT03 | 86 | SY |
| 51 | CONSTRUCT CONCRETE OUTLET HEADWALL PER COB STD DTL S 51200 WITH TRASH RACK PER COB STD DTL B-508 AND HANDRAIL PER COB STD B-110 | 3 | EA |
| 83 | INSTALL ANGULAR LOOSE RIP-RAP PER MAG SPEC SECTION 220 D50=6" 15" THICK ON MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUAL FABRIC TO HAVE APPARENT OPENING SIZE OF 0.425MM, PERMITTIVITY OF 50 gal/min/ft AND WOVEN. GRADATION PER TABLE 6.4 OF 2013 DRAINAGE DESIGN MANUAL FOR MARICOPA COUNTY, ARIZONA (HYDRAULICS). | 825 | SY |
| 85 | CONSTRUCT INLET WING PER ADOT STD DTL SD 6.08 (6:1 SLOPE ON WING WALLS).SEE DETAIL ON SHEET SD03 & SD04, SAFETY RAIL PER MAG STD DTL 145. | 1 | EA |
| 86 | CONSTRUCT OUTLET WING PER ADOT STD DTL SD 6.08 (6:1 SLOPE ON WING WALLS). SEE DETAIL ON SHEET SD03 & SD04, SAFETY RAIL PER MAG STD DTL 145. | 1 | EA |
| 87 | CONSTRUCT CONCRETE HEADWALL MODIFIED FOR 2 PIPES PER COB STD DTL 51200 TYPE AS NOTED WITH TRASH RACK PER COB DTL B-508 AND HAND RAIL PER COB STD DTL B-110. | 6 | EA |
| 90 | CONSTRUCT MODIFIED PUBLIC CATCH BASIN; PER COB DTL B-510A & B-510B; SIZE PER PLAN | 2 | EA |
| 93 | CONSTRUCT THREE BARREL 10'X 4' BOX CULVERT SEE DETAIL ON SHEETS SD03 & SD04, SPECS AND ADOT STD DTL SD 6.03. | 136 | LF |
| 94 | INSTALL ANGULAR LOOSE RIP-RAP PER MAG SPEC SECTION 220 D50=15" 24" THICK ON MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUAL FABRIC TO HAVE APPARENT OPENING SIZE OF 0.425MM, PERMITTIVITY OF 50 gal/min/ft AND WOVEN. GRADATION PER TABLE 6.4 OF 2013 DRAINAGE DESIGN MANUAL FOR MARICOPA COUNTY, ARIZONA (HYDRAULICS). | 63 | SY |

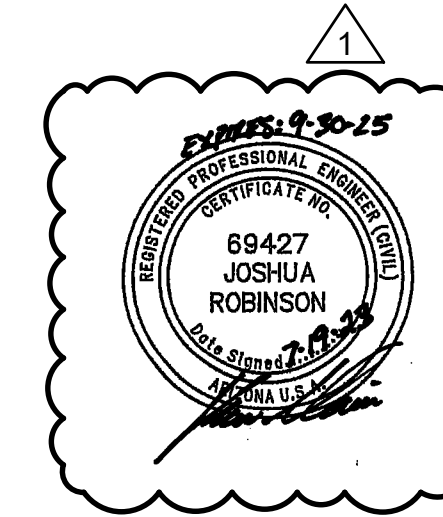
CITY OF BUCKEYE GENERAL PERMITTING NOTES

- 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
ELECTRIC	ARIZONA PUBLIC SERVICE	8/26/21
TELEPHONE	CENTURY LINK	8/26/21
CATV	COX COMMUNICATIONS	8/26/21
WATER	CITY OF BUCKEYE	8/26/21
SEWER	CITY OF BUCKEYE	8/26/21
GAS	SOUTHWEST GAS	8/26/21

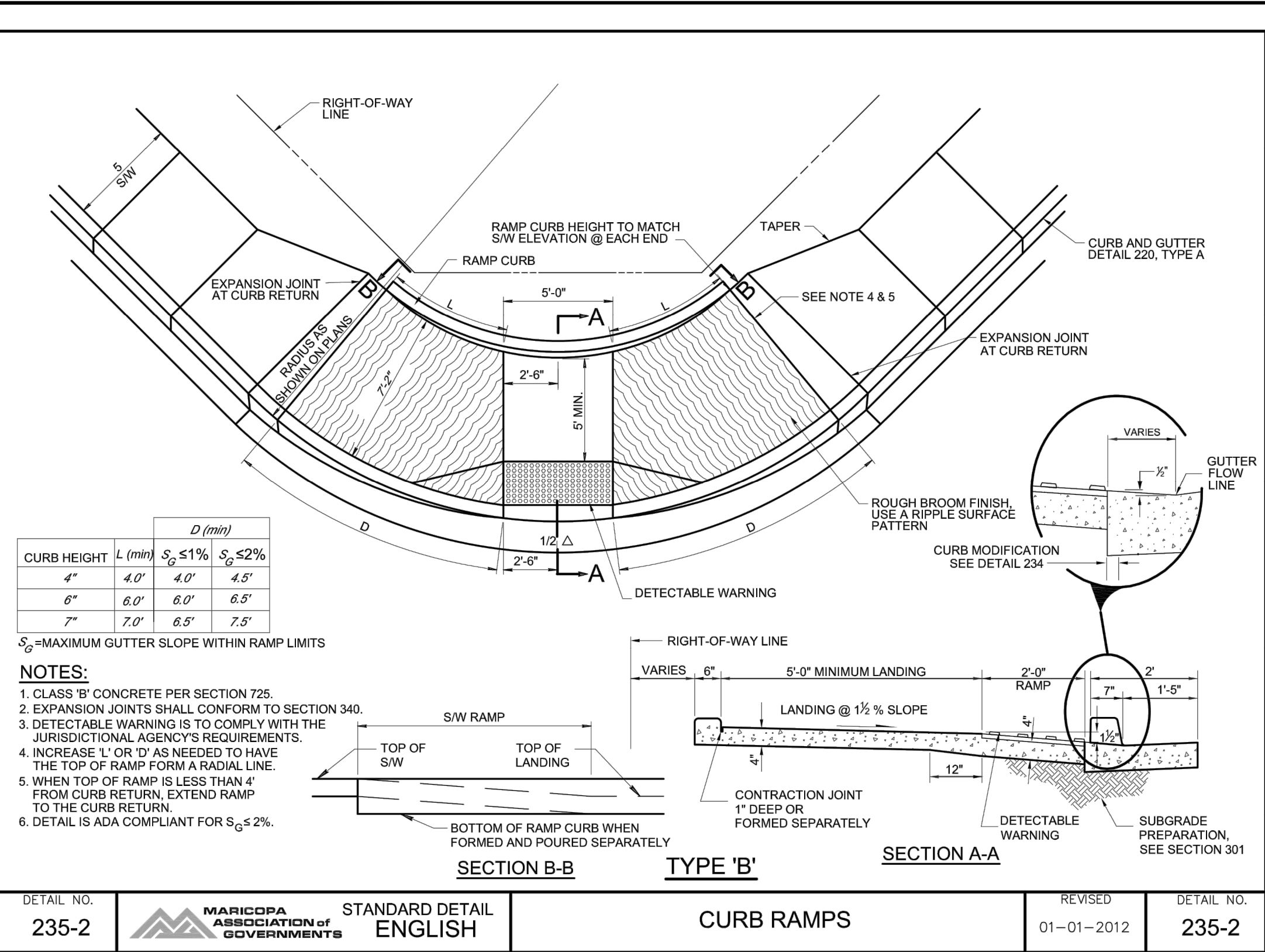
FEMA FLOOD ZONE DESIGNATION

COMMUNITY NUMBER	PANEL #	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE
040039	1605	L	10/16/2013	AE, A, X
	10/16/2013			



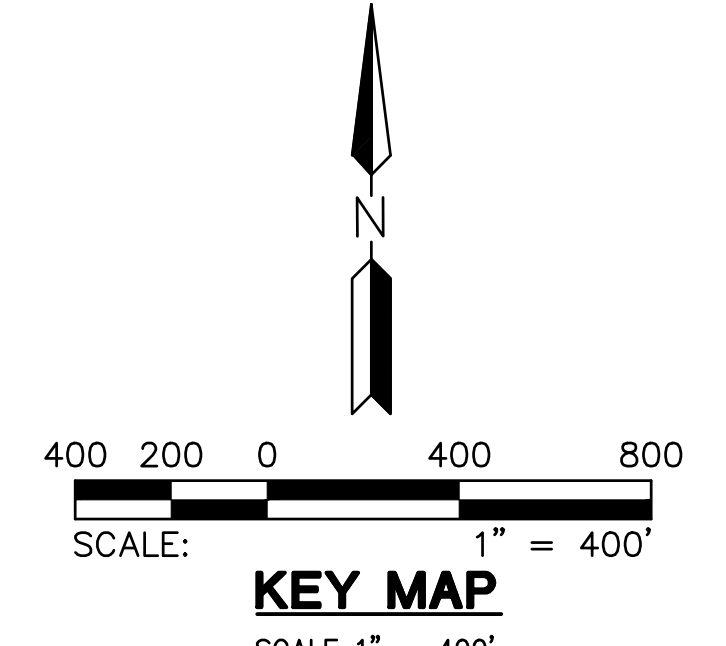
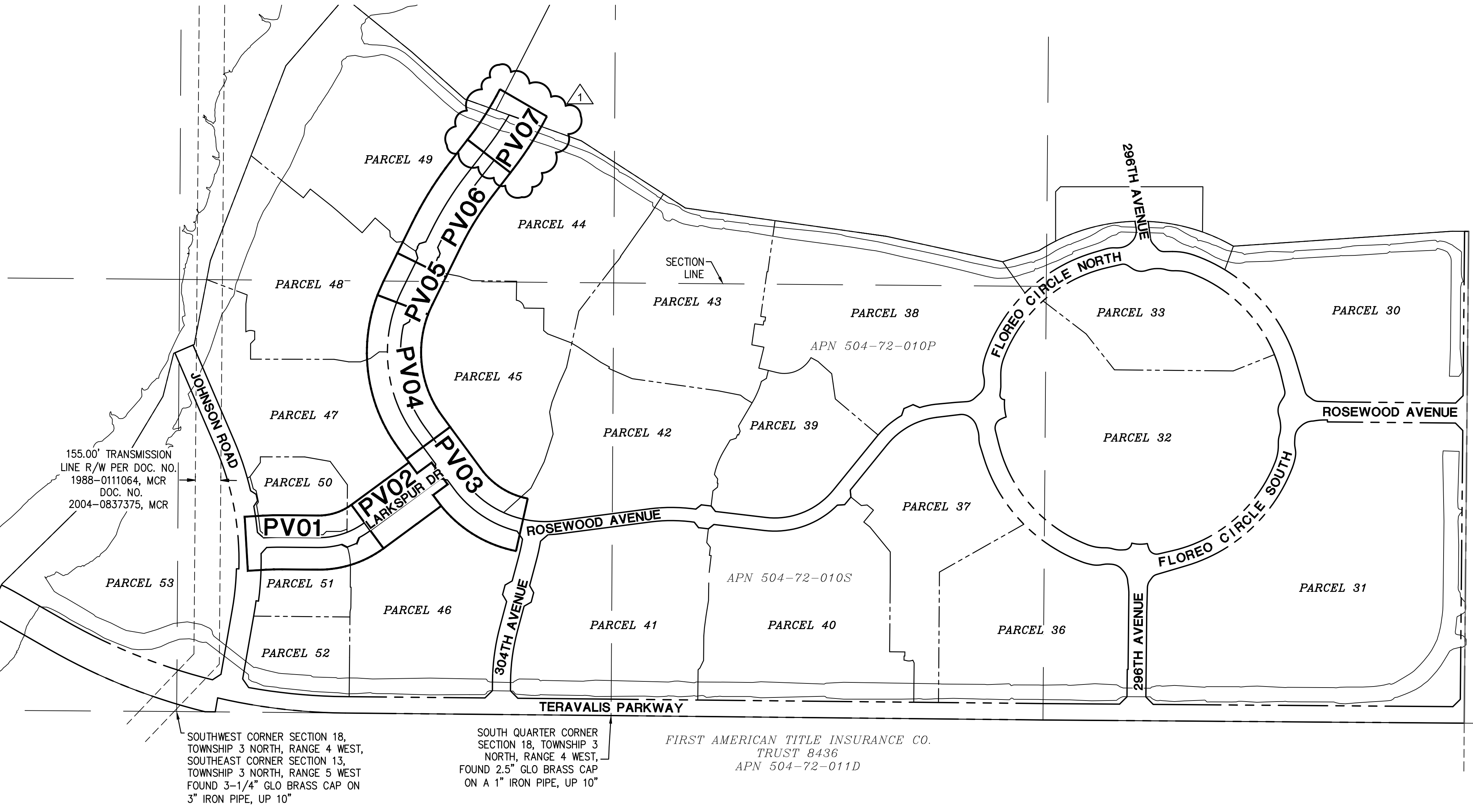
MANAGING ENGINEER / SURVEYOR HILGARTWILSON	PROJECT COORDINATOR CHRISTINA SHAW	CHECKED JR	CHECKED	DRAWING SCALES AS SHOWN
		DRAFTED JM, SS	DRAFTED	
DESIGN LAYOUT MD	FIELD SURVEY			
PAVING PLAN				
FLOREO AT TERAVALIS COLLECTORS - PHASE 2				
NORTHEAST CORNER OF TERAVALIS PARKWAY & SUN VALLEY PARKWAY BUCKEYE, ARIZONA				
 HILGARTWILSON ENGINEER PLAN SURVEY MANAGE 2141 E. HIGHLAND AVE., STE. 250 P. 602.490.0535 / F. 602.368.2436 PHOENIX, AZ 85016 WWW.HILGARTWILSON.COM				
REVISIONS:				
1 07/19/2023 - ORIGINAL RIPRAP CHANNEL HAS BEEN REVISED TO A SOIL CEMENT CHANNEL, PROVIDING RESHAPING TO CONTOURS ALONG THE ENTIRE CHANNEL ALIGNMENT.				
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: 2ND SUBMITTAL		
AS-BUILT SEAL	DESIGN SEAL			
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE	PROJECT NUMBER 1175	SHEET NUMBER CV01	SHT. 1 OF 19
COB PLAN TRACKING # ENG-23-0057		COB PERMIT # ENG-21-0288		

Copyright, Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized hilgartwilson employees.



- ### LEGEND
- PARCEL BOUNDARY
 - - - CENTERLINE
 - - - RIGHT-OF-WAY
 - - - PROPERTY LINE
 - 8"S — SEWER LINE
 - 15"S — SEWER LINE (15" AND BIGGER)
 - EX 8"S — EX. SEWER LINE
 - 8"W — WATER LINE
 - 16"W — WATER LINE (16" AND BIGGER)
 - EX 8"W — EX WATER LINE
 - - - EASEMENT LINE
 - - - EX CATV — EX CABLE TELEVISION
 - - - EX COMM — EX COMMUNICATIONS
 - - - EX ELEC — EX ELECTRIC
 - IRRIGATION SLEEVE
 - PROPOSED PARCEL BOUNDARY IN KEY MAP
 - AC PAVEMENT

- ### ABBREVIATIONS
- ABC AGGREGATE BASE COURSE
 - AC ASPHALTIC CEMENT OR CONCRETE
 - AHD AHEAD SEWER STATION
 - B/C BACK OF CURB
 - BCR BEGIN CURB RETURN
 - BK BACK SEWER STATION
 - BLVD BOULEVARD
 - BOT BOTTOM OF BASIN
 - BW BOTTOM OF WALL AT FINISH GRADE
 - C&G CURB AND GUTTER
 - C/L or CL CENTERLINE
 - CB CATCH BASIN
 - COVER CLEAR COVER OVER PIPE
 - CTR CENTER
 - DE DRAINAGE EASEMENT
 - DIP DUCTILE IRON PIPE
 - DTL DETAIL
 - E EAST OR EASTING
 - EA EACH
 - ECR END CURB RETURN
 - EOE EMERGENCY OUTFALL ELEVATION
 - EOP EDGE OF PAVEMENT
 - ESMT EASEMENT
 - FF FINISH FLOOR
 - FG FINISH GRADE
 - FL FLOW LINE GRADE
 - FP FINISH PAD
 - FS FINISH SURFACE
 - FSB FRONT SETBACK
 - FT FOOT OR FEET
 - G GUTTER
 - GA QUAGE
 - GB GRADE BREAK
 - GFF GARAGE FINISH FLOOR
 - HDPE HIGH DENSITY POLYETHYLENE
 - HGL HYDRAULIC GRADE LINE
 - HORIZ HORIZONTAL
 - HP HIGH POINT
 - HWL HIGH WATER ELEVATION
 - ID INSIDE DIAMETER
 - INV INVERT OR INVERSE
 - IR IRRIGATION
 - LF LINEAR FEET
 - L/S LANDSCAPE
 - L.E. LANDSCAPE EASEMENT
 - LT or L LEFT
 - M MIDDLE
 - MAG MARICOPA ASSOCIATION OF GOVERNMENTS
 - MH MANHOLE
 - ML or M/L MONUMENT LINE
 - MIN MINIMUM
 - MUTE MULTI-USE TRAIL EASEMENT
 - N NORTH OR NORTHING
 - NPI NON-PAYABLE ITEM
 - NTS NOT TO SCALE
 - EX AC PAVEMENT TO BE REMOVED
 - FIRE HYDRANT VALVE AND TEE
 - WATER METER
 - WATER VALVE
 - HEADWALL
 - CATCH BASIN
 - SEWER MANHOLE
 - STORM DRAIN MANHOLE
 - STREET LIGHT
 - MONUMENT
 - PAVING CONSTRUCTION NOTE
 - DRAINAGE CONSTRUCTION NOTE
 - DRYWELL
 - BARRICADE
 - P PAVEMENT
 - PAE PEDESTRIAN ACCESS EASEMENT
 - PC POINT OF CURVE
 - PCC POINT OF COMPOUND CURVE
 - PH PHASE
 - PI POINT OF INTERSECTION
 - PRC POINT OF REVERSE CURVE
 - PT POINT OF TANGENCY
 - PUE PUBLIC UTILITY EASEMENT
 - PVC POLYVINYL CHLORIDE
 - PVI POINT OF VERTICAL INTERSECTION
 - PVMT PAVEMENT
 - R RADIUS
 - R/W, ROW RIGHT OF WAY
 - RW RECLAIMED WATER
 - RGRCP RUBBER GASKET REINFORCED CONCRETE PIPE
 - RSB REAR SETBACK
 - RT or R RIGHT
 - RY REAR YARD ELEVATION
 - S SOUTH, SLOPE OR SEWER LINE
 - S/W or SW SIDEWALK
 - SD STORM DRAIN
 - SDMH STORM DRAIN MANHOLE
 - SG SUBGRADE
 - SHLD SHOULDER OF ROAD
 - SL SEWER LINE
 - SMH SEWER MANHOLE
 - SPEC SPECIFICATIONS
 - STA STATION
 - STD STANDARD
 - SWR SEWER
 - TC TOP OF CURB
 - TOH TOP OF HEADWALL ELEVATION
 - TRANS TRANSMISSION OR TRANSITION
 - TF TOP OF FOOTING
 - TG TOP OF GRATE
 - TL TRUE LENGTH
 - TRW TOP OF RETAINING WALL
 - TS TRUE SLOPE
 - TW TREATED WATER
 - TYP TYPICAL
 - VC VERTICAL CURVE
 - VCP VITRIFIED CLAY PIPE
 - VERT VERTICAL
 - VG VALLEY GUTTER
 - VNAE VEHICULAR NON-ACCESS EASEMENT
 - Vprov VOLUME PROVIDED
 - VR VERTICAL REALIGNMENT
 - Vreq VOLUME REQUIRED
 - V.T. VISIBILITY TRIANGLE
 - W WEST OR WATER LINE
 - WE WATER EASEMENT
 - W/L or WL WATERLINE
 - WSE WATER SURFACE ELEVATION
 - WT or WTL WELL TRANSMISSION LINE
 - WTR WATER



07/19/2023 - ORIGINAL RIPRAP CHANNEL HAS BEEN REVISED TO A SOIL CEMENT CHANNEL, PROVIDING RESHAPING TO CONTOURS ALONG THE ENTIRE CHANNEL ALIGNMENT.

FLOREO AT TERAVALIS COLLECTORS - PHASE 2 KEY MAP, LEGEND & DETAILS

		SUBMITTAL: 2ND SUBMITTAL
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	
AS-BUILT SEAL	DESIGN SEAL	SUBMITTAL: ENG-23-0057 COB PERMIT # ENG-21-0288
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE	
PROJECT NUMBER 1175	SHEET NUMBER DT01	SHT. 2 OF 19



CITY OF BUCKEYE GENERAL CONSTRUCTION NOTES:

- CITY OF BUCKEYE BUILDING 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 (M.A.G.) 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 STOCKPIILING OF MATERIALS WITHIN A RESIDENTIAL AREA. STOCKPIILING 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, M.A.G. 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 OPERATION 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 PRIOR TO ENTERING PUBLIC STREETS AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE 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 (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 M.A.G. UNIFORM STANDARD DETAIL NO. 200 "T" - TOP BACKFILL PAVEMENT SURFACE REPLACEMENT, MODIFIED AS FOLLOWS: THE WIDTH OF THE REPLACED PAVEMENT SECTION EXTEND 1 FOOT BEYOND THE TRENCH SIDE EDGE LINE, ON EITHER SIDE OF THE TRENCH. THE DEPTH OF THE PERMANENT SURFACE REPLACEMENT SHALL BE A MINIMUM OF 3 INCHES OR MATCH THE EXISTING THICKNESS OF THE PAVEMENT, WHICHEVER IS GREATER. SAWCUT OR CONSTRUCTION JOINTS SHALL BE ADEQUATELY JACK 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 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 MAG STD SPEC 321.5.3. ASPHALT IN PLACE FOR LESS THAN 5 YEARS SHALL BE MILLED AND OVERLAYED A MINIMUM OF 20 FEET PAST TRENCH WALLS, AND IN THE CASE OF MULTIPLE STREET CUTS, THE CONTINUOUS MILL AND OVERLAY SHALL EXTEND A MINIMUM OF 2 FEET PAST END OF THE FURTHEST TRENCH WALLS.
- POTHOLES: NO POTHOLES SHALL BE DONE ON ANY STREET NEWER THAN 2 YEARS OLD. ALL POTHOLES 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. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT THE COB'S APPROVAL.
- 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 NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COB AND THE COB CONSULTANT & 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 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

CITY OF BUCKEYE GENERAL CONSTRUCTION NOTES (CONTINUED):

- 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 PER 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 THE 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 M.A.G. 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 ¾ 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 LIST 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 ROADWAYS 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.

HILGARTWILSON STANDARD ENGINEERING NOTES

- THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES IT UPON THEMSELVES THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THE SAME WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
- THE ESTIMATED QUANTITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY OF A DETAILED ESTIMATE BASED ON THESE PLANS, CURRENT CODES, AND SITE VISITATION.
- ALL EARTHWORK CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD DETAILS AND/OR SPECIFICATIONS INCLUDING ANY SUPPLEMENTS THERETO, AND ALL ADDENDA. THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATION OF THE SOIL INVESTIGATION REPORT AND LETTER, AS PREPARED BY (ALPHA GEOTECHNICAL & MATERIALS, INC.), PHONE NO. (602) 453-3265, PROJECT NO. 20-G-11044, DATED FEB. 9, 2021.
- PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY IN QUANTITIES. NO CLAIMS SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES, POWER POLES, ETC.
- THE CONTRACTOR SHALL MAKE NO CLAIM AGAINST THE OWNER OR THE SURVEYOR REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE SURVEYOR UNLESS ALL SURVEY STAKES SET BY THE ENGINEER ARE MAINTAINED INTACT AND CAN BE VERIFIED AS TO THEIR ORIGIN. IF, IN THE OPINION OF THE SURVEYOR, THE STAKES ARE NOT MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
- THE SURVEYOR WILL MAKE FIELD AS-BUILT MEASUREMENTS OF THE WORK UPON NOTIFICATION BY THE CLIENT OR HIS REPRESENTATIVE THAT THE WORK IS COMPLETE AND READY FOR AS-BUILT SURVEY. FOR PIPE WORK, THE CONTRACTOR IS RESPONSIBLE FOR LEAVING TRENCHES OPEN SO THAT AS-BUILTS CAN BE PERFORMED TO COMPLY WITH THE AGENCY'S REQUIREMENTS. (IF THE TRENCHES ARE BACKFILLED AND OBTSCURED TO THE POINT THAT AS-BUILT MEASUREMENTS CANNOT BE PERFORMED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE UTILITY TRENCHES AS NECESSARY TO COMPLETE AN AS-BUILT SURVEY.)
- EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY. LOCATIONS SHOWN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. CALL BLUE STAKE FOR FIELD LOCATION AT (602) 263-1100. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWING, SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN LIKE KIND.
- PRIOR TO CONSTRUCTION, THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE ANY ALTERATION, OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
- ANY INSPECTION BY THE CITY, COUNTY, ENGINEER, OR OTHER JURISDICTIONAL AGENCY, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL STORM DRAIN PIPES, STORM WATER RETENTION PIPES AND DRAINAGE FACILITIES FROM DAMAGE DURING ALL STAGES OF CONSTRUCTION. THE DEPTH OF COVER ON THE STORM DRAIN PIPE IS DESIGNED FOR FINAL GRADE. THEREFORE, EXTRA CARE SUCH AS BERMING OVER PIPES, FLAGGING OR SIGNAGE SHOULD BE USED DURING CONSTRUCTION TO MAINTAIN COVER OR PROTECT THE PIPES.
- UNDERGROUND UTILITIES SHALL BE MARKED IN ACCORDANCE WITH SECTION 40-360 OF THE ARIZONA REVISED STATUTES AND LOCAL MUNICIPALITY REQUIREMENTS.

CITY OF BUCKEYE PAVING NOTES



- LOCATION OF ALL VALVES AND MANHOLES MUST BE REFERENCED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION.
- SUBGRADE AND PAVING OPERATIONS SHALL NOT BEGIN UNTIL ALL UTILITY FRAME AND COVER LOCATIONS HAVE BEEN PROPERLY REFERENCED TO FACILITATE ADJUSTMENTS.
- BASE COURSE SHALL NOT BE PLACED ON SUBGRADE UNTIL ALL SUBGRADE REQUIREMENTS HAVE BEEN COMPLETED AND APPROVED BY THE CITY INSPECTOR.
- NO PAVING CONSTRUCTION SHALL COMMENCE UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY ARE COMPLETED, TESTED, APPROVED AND THE "TO PAVE" AS BUILT DRAWINGS ARE REVIEWED AND APPROVED BY THE CITY.
- BASE COURSE SHALL NOT BE PLACED ON SUBGRADE UNTIL BASE REQUIREMENTS HAVE BEEN COMPLETED TESTED AND APPROVED BY THE CITY.
- ALL RETURN TYPE DRIVEWAYS WITH CONCRETE PAVEMENT SHALL UTILIZE MAG CLASS A CONCRETE FUR ALL CONSTRUCTION WITHIN THE RIGHT-OF-WAY.
- ASPHALT AND GUTTERS SHALL BE WATER TESTED IN THE PRESENCE OF THE CITY'S AUTHORIZED REPRESENTATIVE TO ENSURE PROPER DRAINAGE, PRIOR TO FINAL APPROVAL BY THE CITY. WATER SHALL NOT POND MORE THAN 7/4 OF AN INCH. ANY PANELING THAT EXCEED THIS WILL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE EXACT POINT OF MATCHING, TERMINATION AND OVERLAY WILL BE DETERMINED IN THE FIELD BY THE CITY OF BUCKEYE ENGINEERING DEPARTMENT.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEEP CLEAN OF ALL DIRT AND DEBRIS. ALL WATER SERVICE METER BOXES SHALL BE SET TO HAVE THE TOP OF THE BOX ELEVATION MATCH TOP OF SIDEWALK ELEVATION.
- ALL SLEEVING INSTALLED UNDER NEW STREETS SHALL BE DONE WITH SCH 80 PVC SLEEVING CONDUIT UNLESS OTHERWISE SPECIFIED.
- NO GRINDING OF CONCRETE IS ALLOWED IN THE CITY OF BUCKEYE. REVERSE FLOW IN CURB GUTTER, AND VALLEY GUTTER WILL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL JOINTS SHALL BE TACK COATED WITH A MINIMUM OF 95% COVERAGE OF THE JOINT.
- CONCRETE REPAIR WILL NOT BE ALLOWED IN THE CITY OF BUCKEYE. ALL DAMAGED CONCRETE SHALL BE REMOVED AND REPLACED TO THE NEAREST JOINT
- ALL ASPHALT JOINTS SHALL BE SEALED PRIOR TO THE FINAL WALK THROUGH.
- FIBER MESH IS REQUIRED IN ALL CONCRETE APRONS AND VALLEY GUTTERS.
- ALL MILLINGS FROM PUBLIC PROJECTS SHALL BE GIVEN TO THE CITY OF BUCKEYE PUBLIC WORKS DEPARTMENT
- HIGH SPOTS IN ASPHALT SHALL BE REMOVED AND REPLACED. REHEATING OR BURNING OF ASPHALT IS NOT ALLOWED IN BUCKEYE.
- ALL ASPHALT SHALL BE SAW CUT TO A CLEAN TRUE EDGE FUR THE FULL FACE OF THE SECTION PRIOR TO TYING IN. MILLED EDGES WILL BE EVALUATED BY THE CITY INSPECTOR FOR POSSIBLE ACCEPTANCE.
- AN RLS CERTIFIED AS BUILT PLAN OF ALL NEW CONCRETE CURB AND GUTTER, VALLEY GUTTER, DRAINAGE CONTROL STRUCTURES, SURVEY MONUMENT LOCATIONS AND ALL SIGNING AND STRIPING SHALL BE SUBMITTED PRIOR TO ACCEPTANCE OF THE COMPLETED RIGHT OF WAY IMPROVEMENTS.
- ALL IMPROVEMENT WORK SHALL BE APPROVED BY THE CITY INSPECTOR INCLUDING UTILITY ADJUSTMENTS, SURVEY MONUMENTS, SIGN BASES, PARKWAY GRADING, AND ANY REPAIR OR REPLACEMENTS.
- DURING ALL PAVING OPERATIONS AN ADDITIONAL LAB TECHNICIAN SHALL BE LOCATED AT THE ASPHALT PRODUCTION PLANT TO ENSURE APPROVED MATERIAL IS BEING USED IN THE ASPHALT MIX.
- NO NEWLY PAVED STREET CAN BE OPENED TO TRAFFIC WITHOUT APPROVAL OF THE CITY INSPECTOR.
- MATERIAL USED IN THE ASPHALT PROVIDED TO THE CITY SHALL BE 100% VIRGIN FROM AN APPROVED PIT. NO RECYCLED ASPHALT IS ALLOWED IN THE CITY OF BUCKEYE.

Copyright Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than editing "as-built" information, are allowed by anyone other than authorized hilgartwilson employees.

CITY OF BUCKEYE NOTES

ALL CURRENT CITY OF BUCKEYE GENERAL NOTES & UTILITY NOTES ARE ACCESSIBLE ON THE CITY'S WEBSITE AT www.buckeyeaz.gov, UNLESS OTHERWISE ATTACHED.



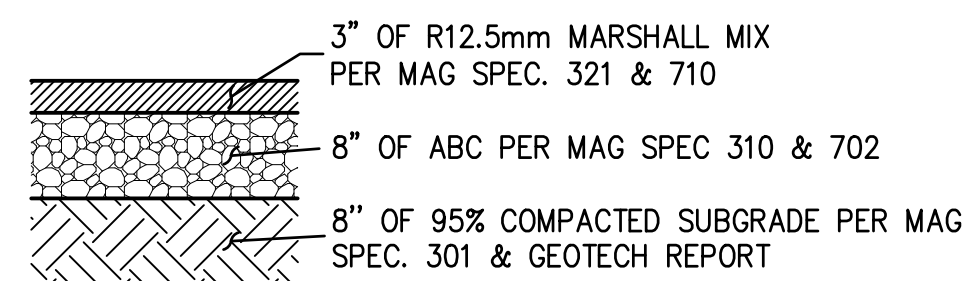
PLAN NAME FLOEO AT TERAVALIS COLLECTORS - PHASE 2 NOTES			
ENGINEER INFORMATION  HILGARTWILSON		SUBMITTAL: 2ND SUBMITTAL	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL		
AS-BUILT SEAL	DESIGN SEAL 		
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE	COB PLAN TRACKING # ENG-23-0057	
PROJECT NUMBER 1175	SHEET NUMBER SHT. DT02 3 OF 19	COB PERMIT # ENG-21-0288	

WATER & SEWER LOCATION NOTE:

THE PREFERRED LOCATION OF WATER, SEWER AND RECLAIMED WATER LINES ARE SHOWN ON THE TYPICAL STREET SECTIONS. THE LOCATION OF THESE LINES MAY BE MODIFIED AT THE TIME OF FINAL DESIGN, SUBJECT TO THE APPROVAL OF THE CITY OF BUCKEYE. WHERE PRACTICAL THE LINES SHALL BE CENTERED WITHIN A TRAFFIC LANE. IT IS UNDERSTOOD THAT SANITARY SEWER LINES WILL BE INSTALLED WITH STRAIGHT RUNS BETWEEN MANHOLES AND AS A RESULT WILL NOT BE AT A CONSISTENT OFFSET ON STREET CURVES. THE SANITARY SEWER LINES SHALL BE DESIGNED SUCH THAT MANHOLES ARE LOCATED OUTSIDE OF VEHICULAR WHEEL PATHS.

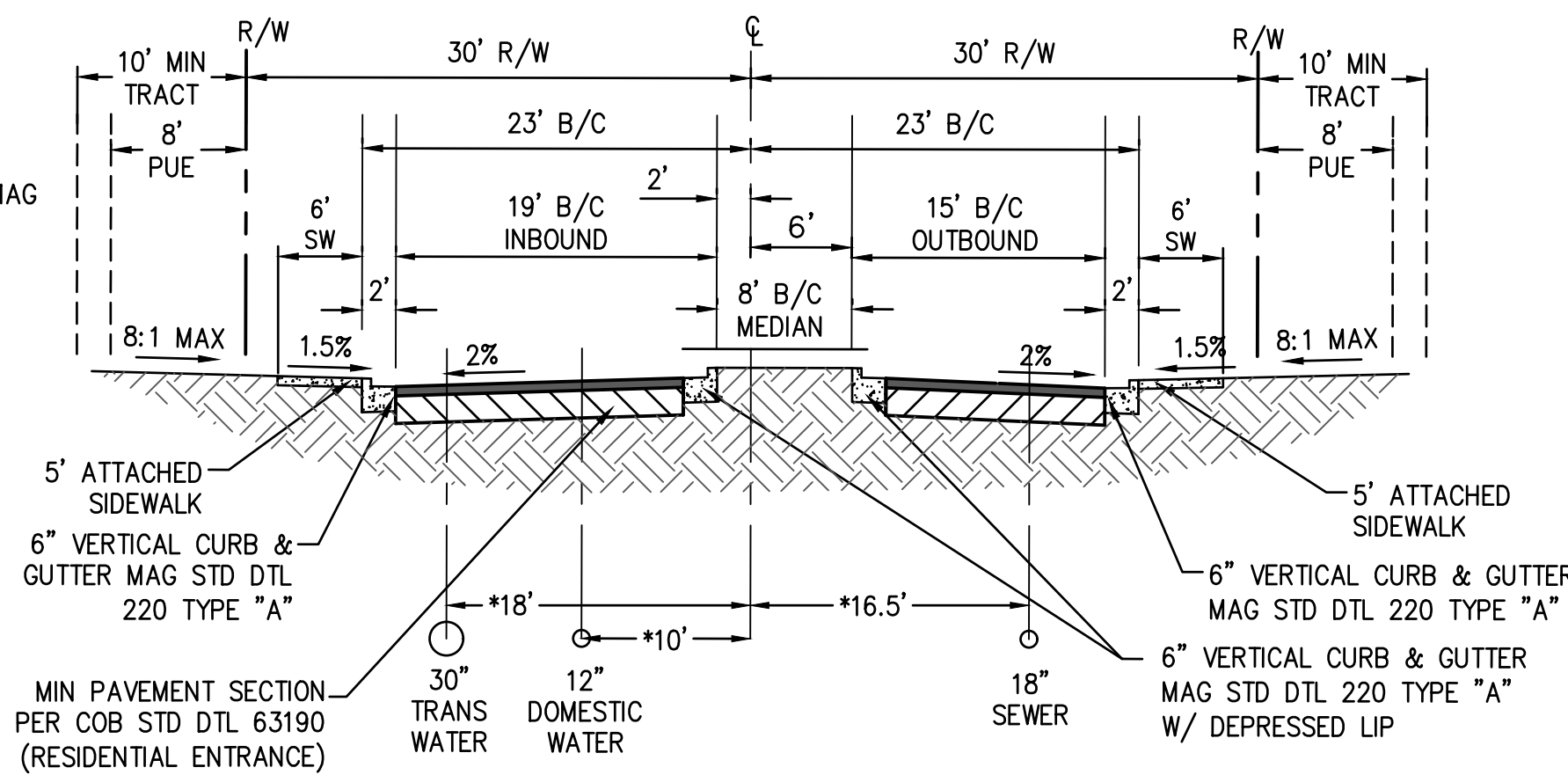
PAVEMENT SECTION NOTE

PAVEMENT SECTION SHALL BE THE GREATER OF THE APPLICABLE CITY OF BUCKEYE REQUIREMENTS PER CITY OF BUCKEYE EDS SECTION 6-3 OR THE APPROVED GEOTECHNICAL REPORT.



RESIDENTIAL ENTRANCE & MAJOR LOCAL STREET

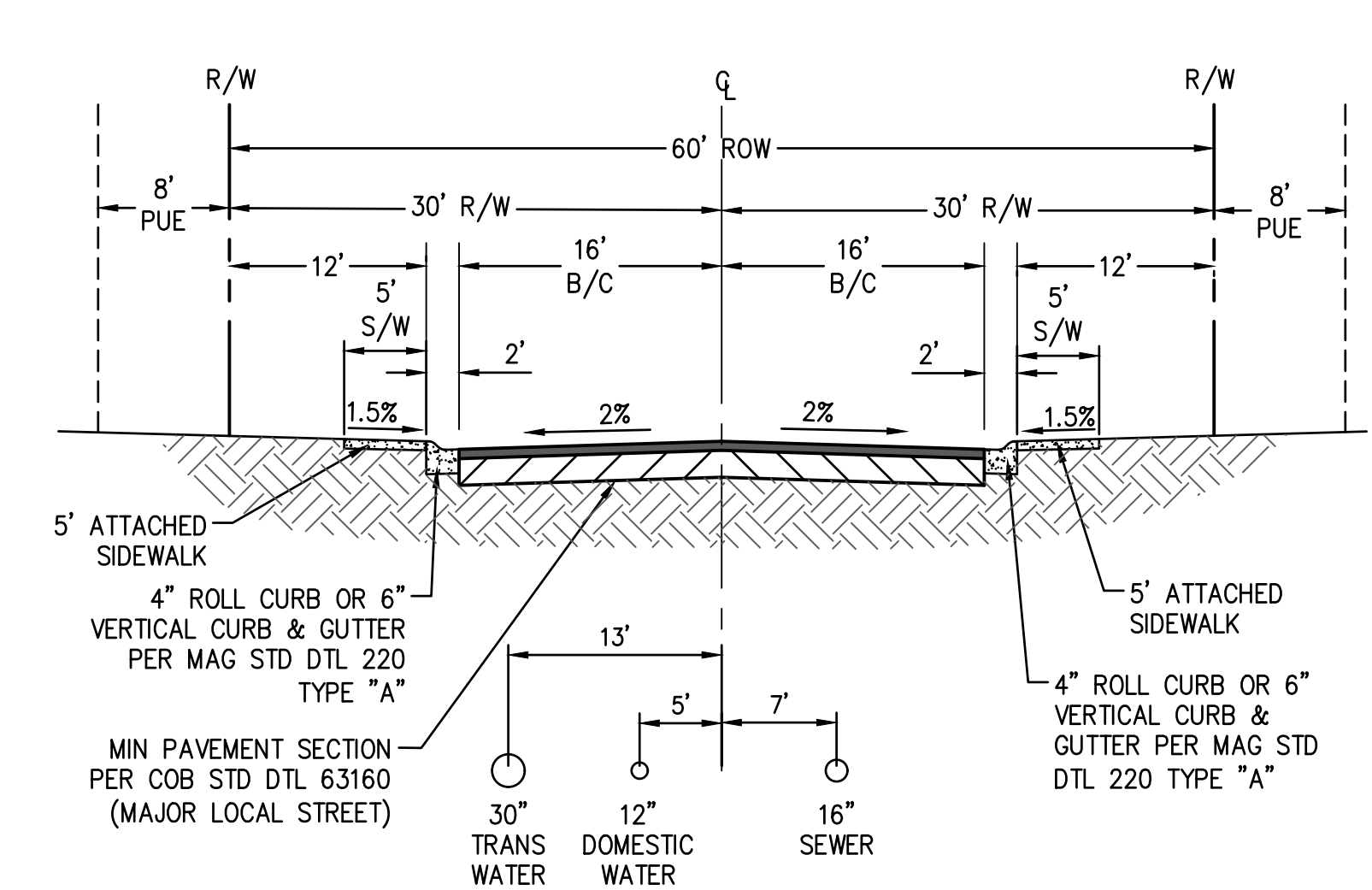
PAVEMENT SECTION
(PER C.O.B. STD DTL 63190)
NTS



TYPICAL RESIDENTIAL ENTRANCE SECTION

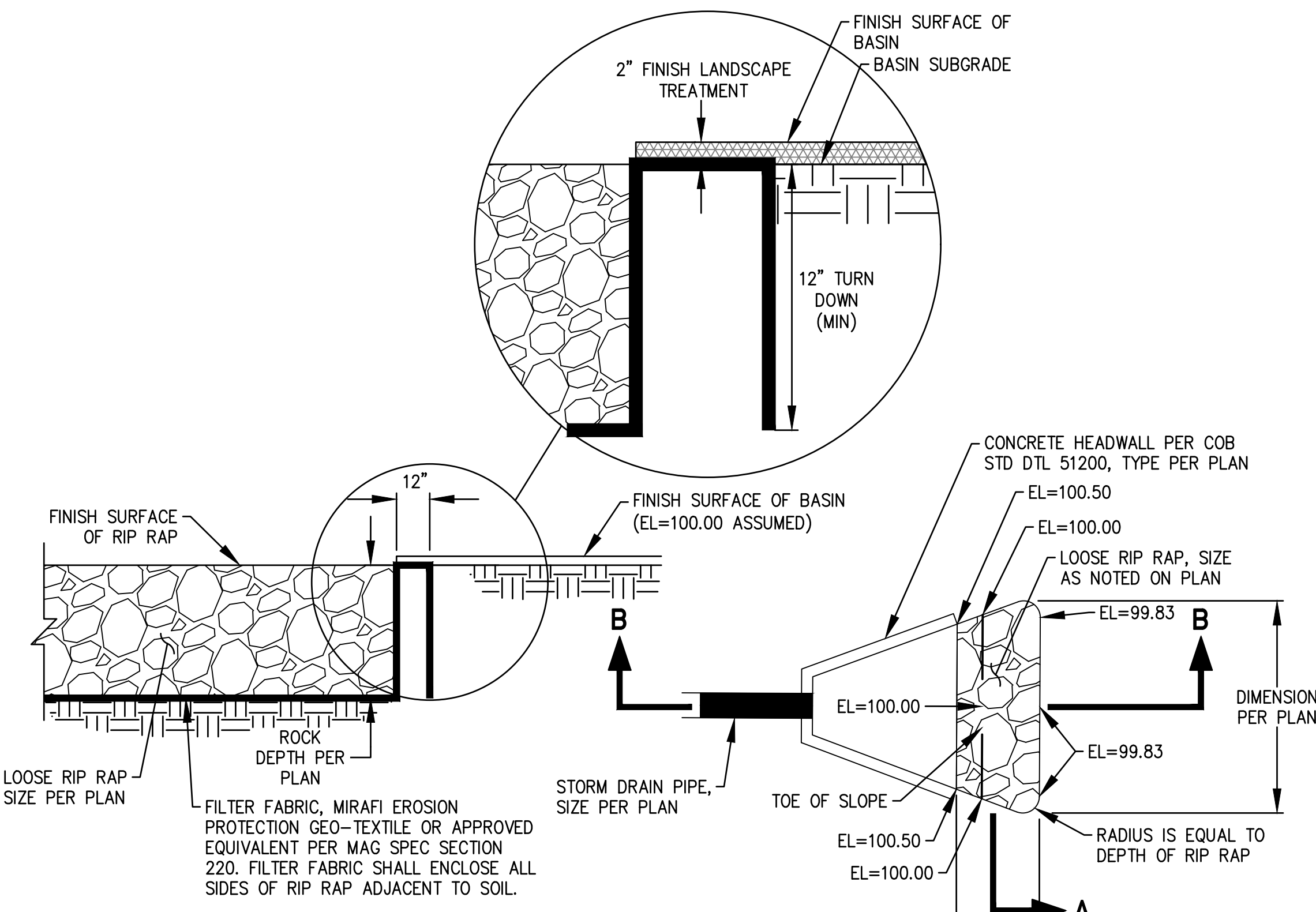
PER COB STD DTL 63190
LARKSPUR DRIVE - AT INTERSECTIONS ONLY
FROM STA:11+71.13 TO STA:12+71.13
FROM STA:22+91.06 TO STA:23+91.06
(LOOKING EAST)
SCALE: N.T.S.

* WATER IF ON NORTH OR EAST SIDE OF STREET.
TRANSITION WATER IF ON NORTH OR EAST SIDE OF STREET.
SEWER IF ON SOUTH OR WEST SIDE OF STREET.



TYPICAL MAJOR LOCAL STREET SECTION

PER COB STD DTL 63160 - MODIFIED WITH 60' ROW
NTS
(LOOKING EAST)



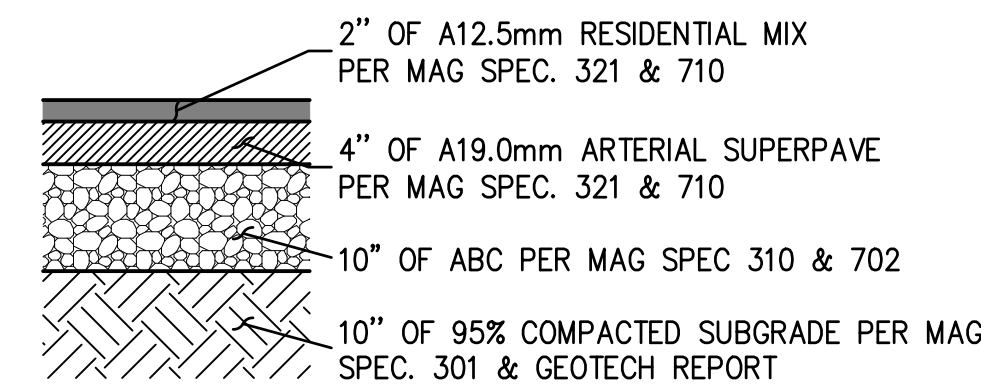
SECTION A
NTS

PLAN
NTS

SECTION B-B
NTS

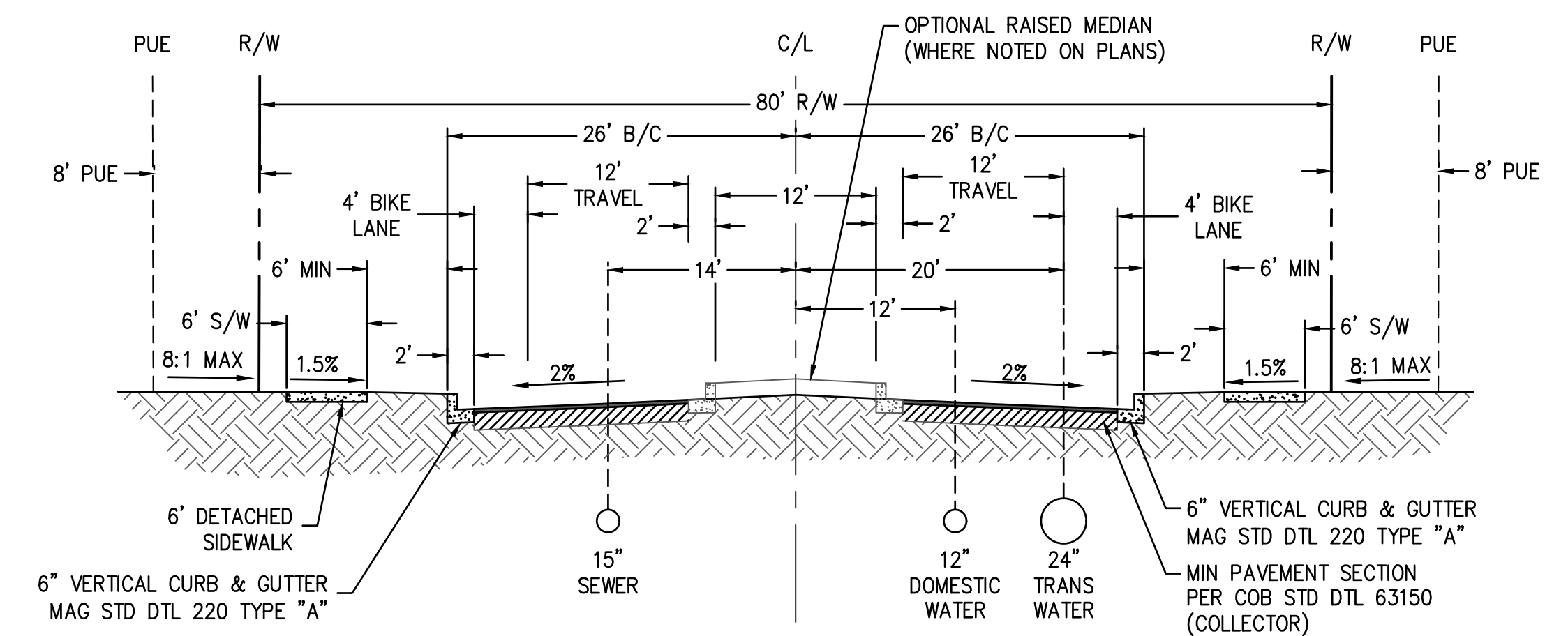
RIP RAP DETAIL - HEADWALL

NTS



COLLECTOR

PAVEMENT SECTION
(PER C.O.B. STD DTL 63150)
NTS



TYPICAL COLLECTOR SECTION

PER COB STD DTL 63150
ROSEWOOD AVE (WEST OF FLOREO CIRCLE)
(LOOKING NORTH & WEST)
SCALE: NTS

Copyright: Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.

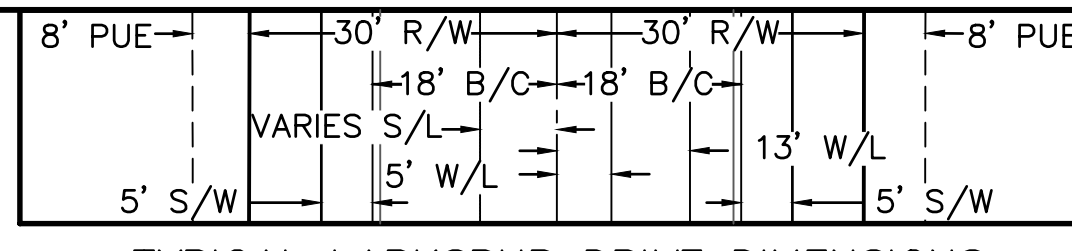
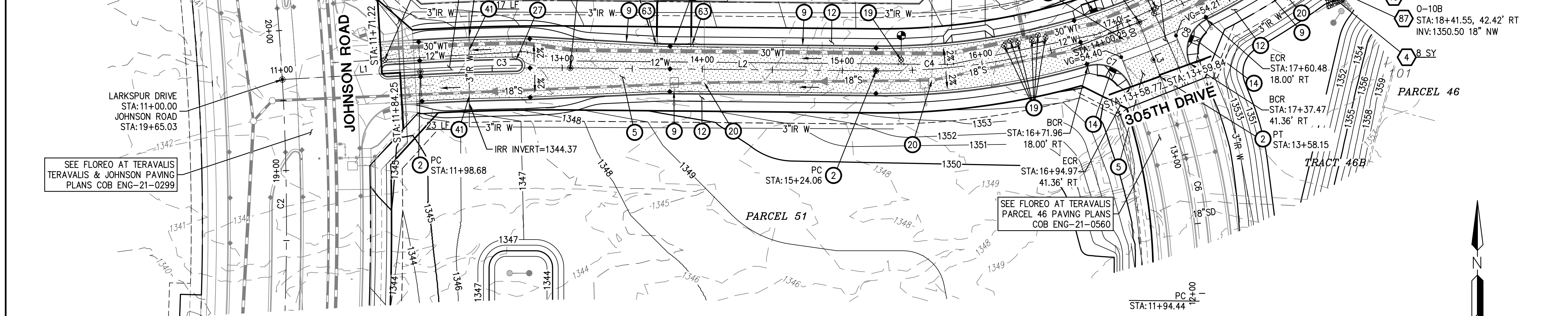
PLAN NAME
FLOREO AT TERAVALIS COLLECTORS - PHASE 2 NOTES & DETAILS

ENGINEER INFORMATION		SUBMITTAL: 2ND SUBMITTAL
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	COB PLAN TRACKING # ENG-23-0057 COB PERMIT # ENG-21-0288
AS-BUILT SEAL	DESIGN SEAL	
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE	
PROJECT NUMBER 1175	SHEET NUMBER DT03	SHT. 4 OF 19



CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C1	1800.00'	19°57'34"	627.04'	L1	S86°42'07"W	98.68'
C2	1800.00'	13°12'36"	415.00'	L2	S89°27'52"E	218.32'
C3	1600.00'	3°50'01"	107.05'	L3	S21°29'04"E	42.10'
C4	500.00'	22°01'12"	192.16'			
C5	500.00'	14°53'02"	129.89'			
C6	425.00'	22°04'14"	163.71'			
C7	25.00'	84°55'43"	37.06'			
C8	25.00'	84°35'08"	36.91'			

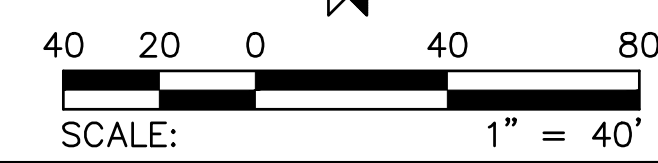
NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



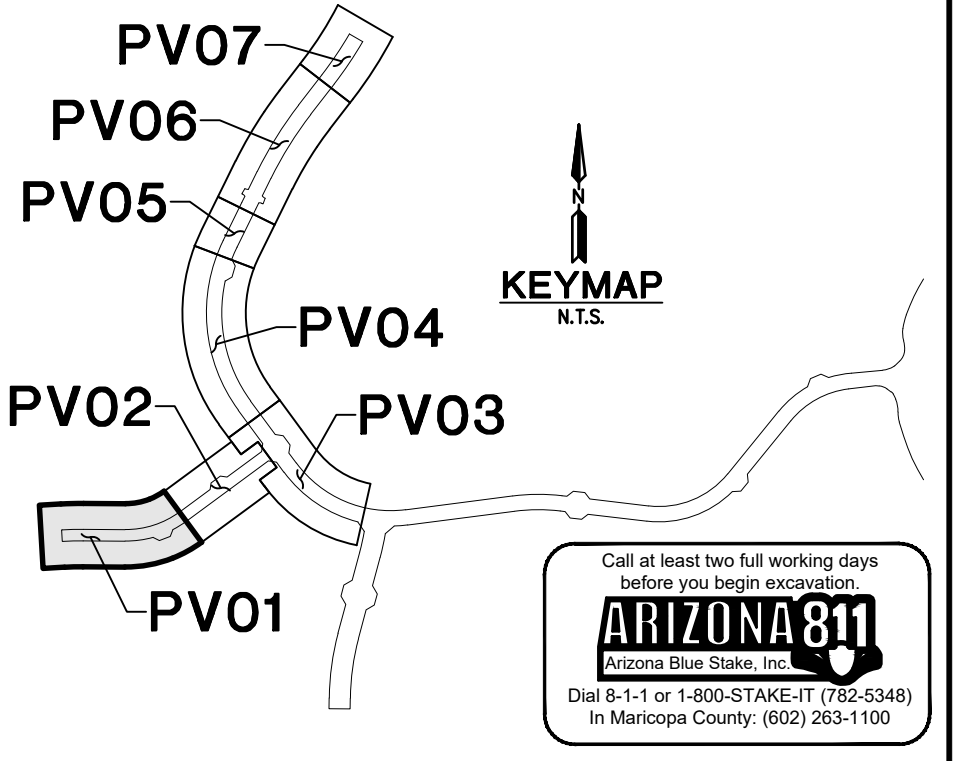
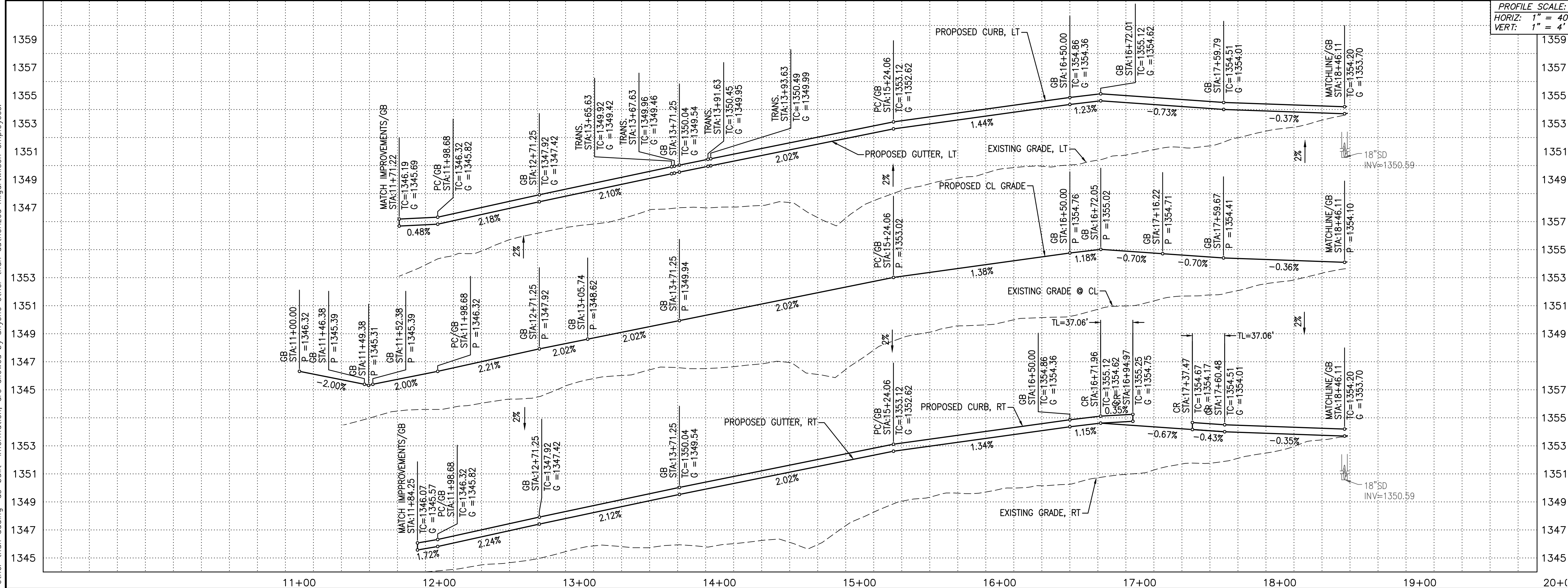
DESIGN SPEED = 30 MPH
UNLESS NOTED OTHERWISE
SCALE: NTS

- PAVING CONSTRUCTION**
- ② INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'. 6 EA
 - ⑤ INSTALL PAVEMENT 3" AC OVER 8" ABC; SEE TYPICAL STREET SECTION ON DT03. 2499 SY
 - ⑨ CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A. 1537 LF
 - ⑫ CONSTRUCT 5' SIDEWALK; MAG STD DTL 230. 6093 SF
 - ⑭ CONSTRUCT SIDEWALK CURB RAMP; MAG STD DTL 235-2, TYPE 'B'; SEE DT01 FOR DETAIL. 2 EA
 - ⑯ CONSTRUCT MID-BLOCK RAMP WITH 6" CURB; MAG STD DTL 238-2. 1 EA
 - ⑰ CONSTRUCT 6" CONCRETE VALLEY GUTTER & APRON; MAG STD DTL 240 WITH FIBER MESH. 517 SF
 - ⑲ ADJUST WATER VALVE BOX & COVER PER MAG DTL 391-2. 9 EA
 - ⑳ ADJUST MANHOLE FRAME & COVER PER MAG STD DTL 422 AND COB DTL 41260. 4 EA
 - ㉑ CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A, WITH DEPRESSED LIP. 196 LF
 - ④① INSTALL 6" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS. 40 LF
 - ④② CONSTRUCT 6" MOUNTABLE CURB & GUTTER, PER MAG STD DTL 220-2, TYPE E. 24 LF
 - ④③ CONSTRUCT 2" CURB TRANSITION TYPE "E" TO TYPE "A" PER MAG STD DTL 220-2. 2 EA
- STORM DRAIN CONSTRUCTION**
- ④ PLACE LOOSE RIP-RAP D50=3" THICKNESS 8" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP RAP DETAIL ON DT03. 16 SY
 - ⑬③ INSTALL 18" RGRCP STORM DRAIN, CLASS IV. 51 LF
 - ②④ CONSTRUCT CATCH BASIN; PER COB DTL B-510A & B-510B; SIZE PER PLAN. 2 EA
 - ②⑦ CONSTRUCT CONCRETE HEADWALL MODIFIED FOR 2 PIPES PER COB STD DTL 51200 TYPE AS NOTED WITH TRASH RACK PER COB DTL B-508 AND HAND RAIL PER COB STD DTL B-110. 2 EA

LARKSPUR DRIVE



PROFILE SCALE:
HORIZ: 1" = 40'
VERT: 1" = 4'

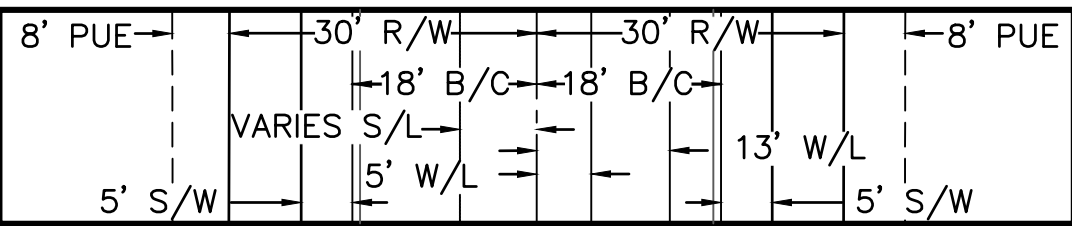
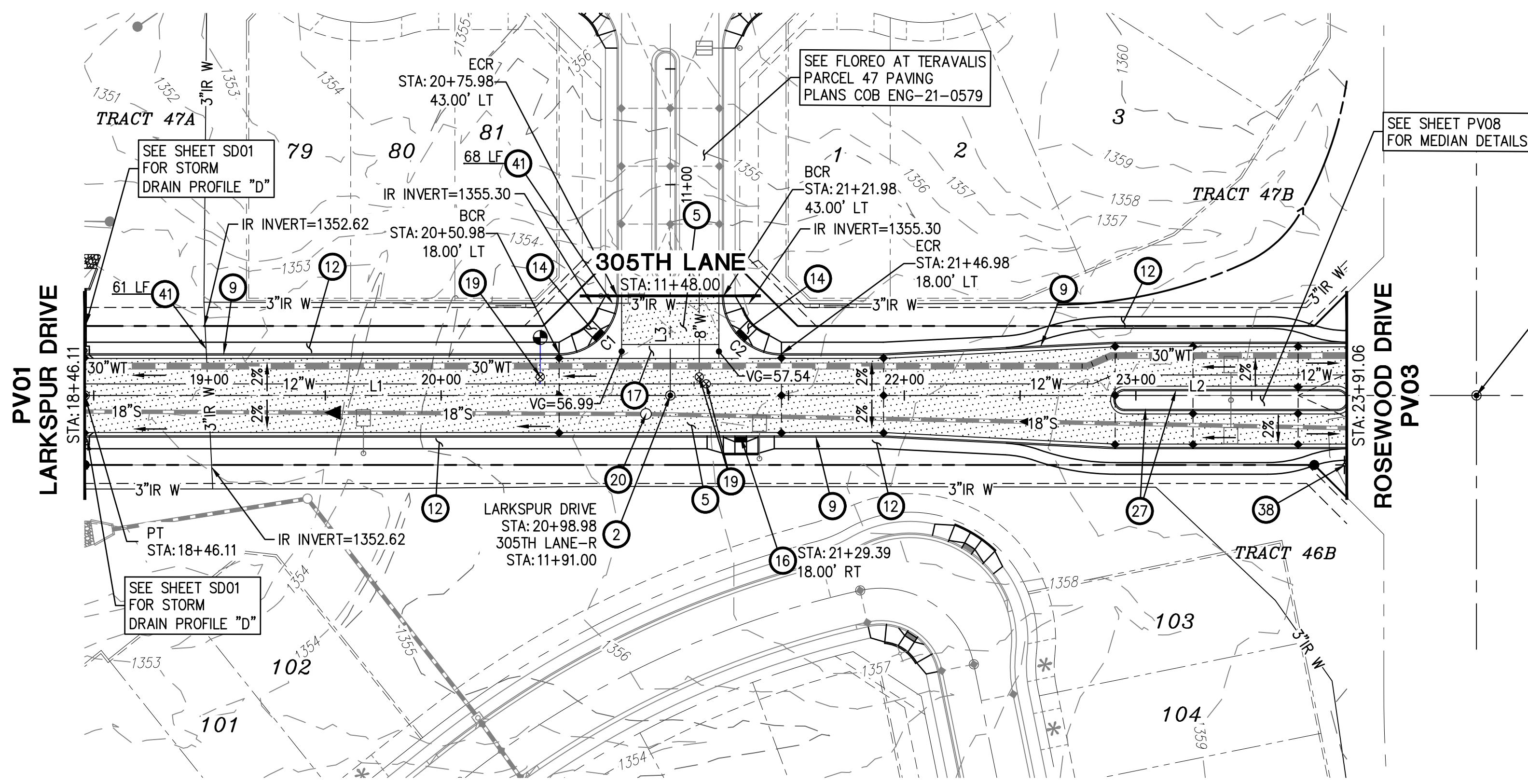


FLOREO AT TERAVALIS COLLECTORS - PHASE 2 PAVING PLAN & PROFILE

ENGINEER INFORMATION		SUBMITTAL: 2ND SUBMITTAL
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	
AS-BUILT SEAL	DESIGN SEAL	COB PLAN TRACKING # ENG-ENG-23-0057 COB PERMIT # ENG-21-0288
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE	
PROJECT NUMBER 1175	SHEET NUMBER PV01	SHT. 5 OF 19

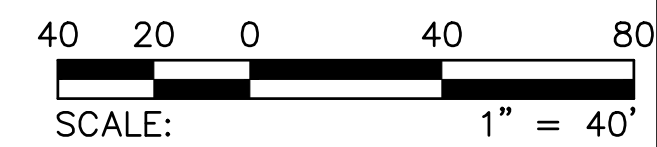
Copyright, HilgartWilson - This plan document set is the sole property of HilgartWilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized HilgartWilson employees.

LINE TABLE			CURVE TABLE			
NO.	DIRECTION	LENGTH	NO.	RADIUS	DELTA	LENGTH
L1	S53°37'54"W	252.87'	C1	25.00'	90°00'00"	39.27'
L2	S53°37'54"W	348.08'	C2	25.00'	90°00'00"	39.27'
L3	N36°22'06"W	191.00'	NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.			

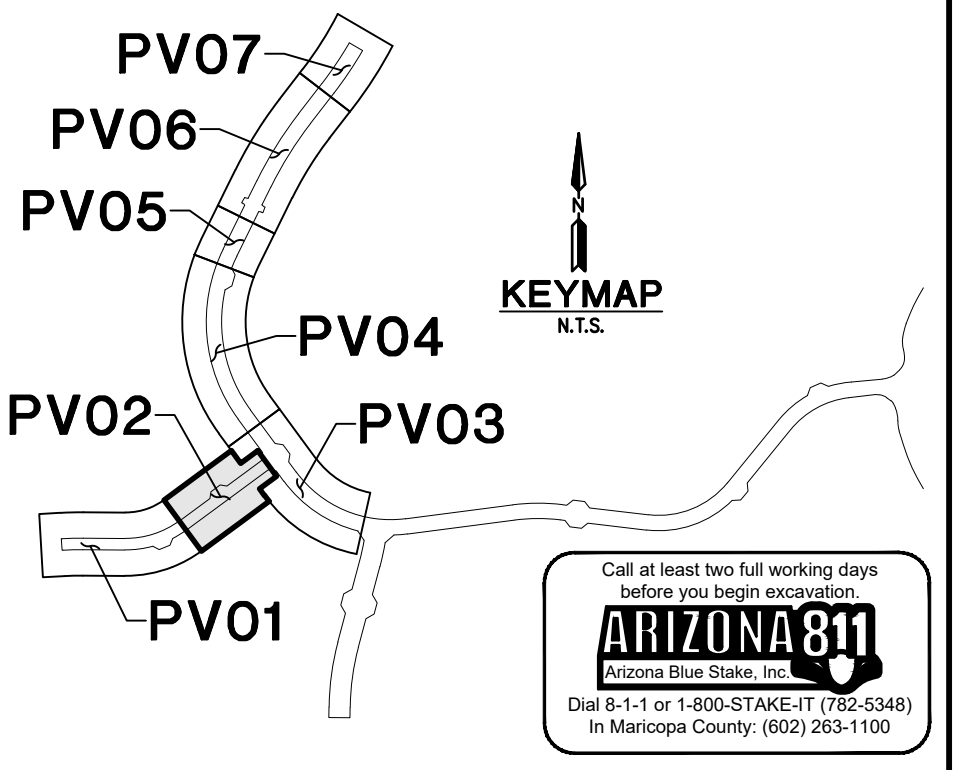
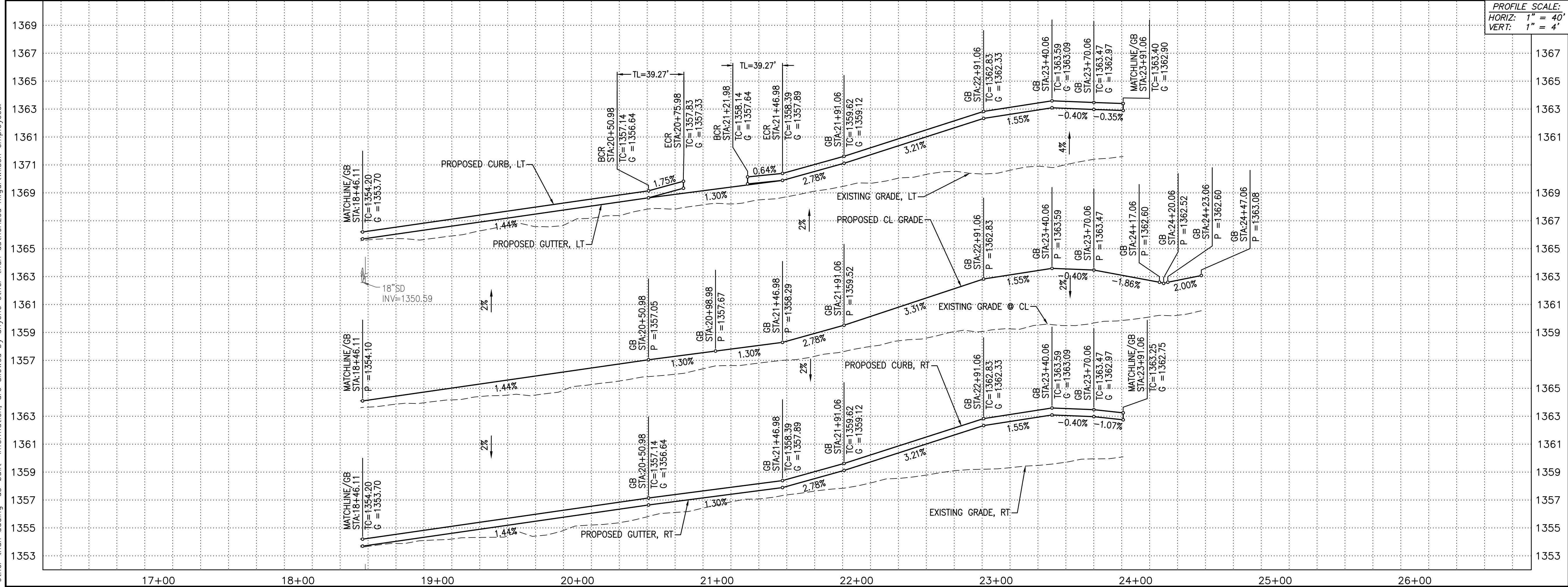


DESIGN SPEED = 30 MPH
UNLESS NOTED OTHERWISE
SCALE: NTS

PAVING CONSTRUCTION		
2	INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'.	1 EA
5	INSTALL PAVEMENT 3" AC OVER 8" ABC; SEE TYPICAL STREET SECTION ON DT03.	2068 SY
9	CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A.	994 LF
12	CONSTRUCT 5' SIDEWALK; MAG STD DTL 230.	4841 SF
14	CONSTRUCT SIDEWALK CURB RAMP; MAG STD DTL 235-2, TYPE 'B'; SEE DT01 FOR DETAIL.	2 EA
16	CONSTRUCT MID-BLOCK RAMP WITH 6" CURB; MAG STD DTL 238-2.	1 EA
17	CONSTRUCT 6" CONCRETE VALLEY GUTTER & APRON; MAG STD DTL 240 WITH FIBER MESH.	565 SF
19	ADJUST WATER VALVE BOX & COVER PER MAG DTL 391-2.	3 EA
20	ADJUST MANHOLE FRAME & COVER PER MAG STD DTL 422 AND COB DTL 41260.	1 EA
27	CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A, WITH DEPRESSED LIP.	209 LF
38	INSTALL STREET SIGN POST; PER COB DTL 65120.	1 EA
41	INSTALL 6" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS.	129 LF



LARKSPUR DRIVE



FLOREO AT TERAVALIS COLLECTORS - PHASE 2 PAVING PLAN & PROFILE

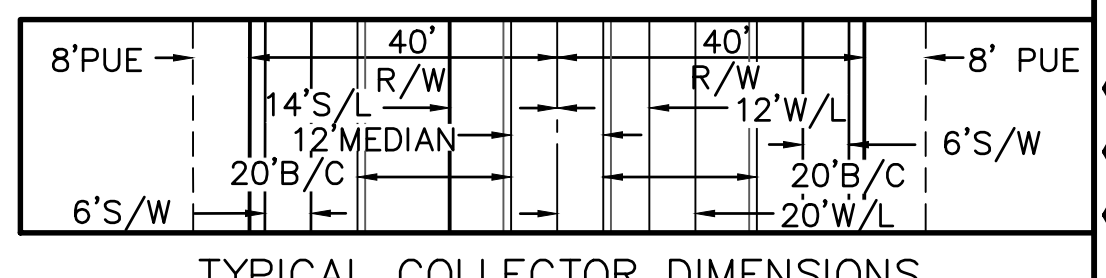
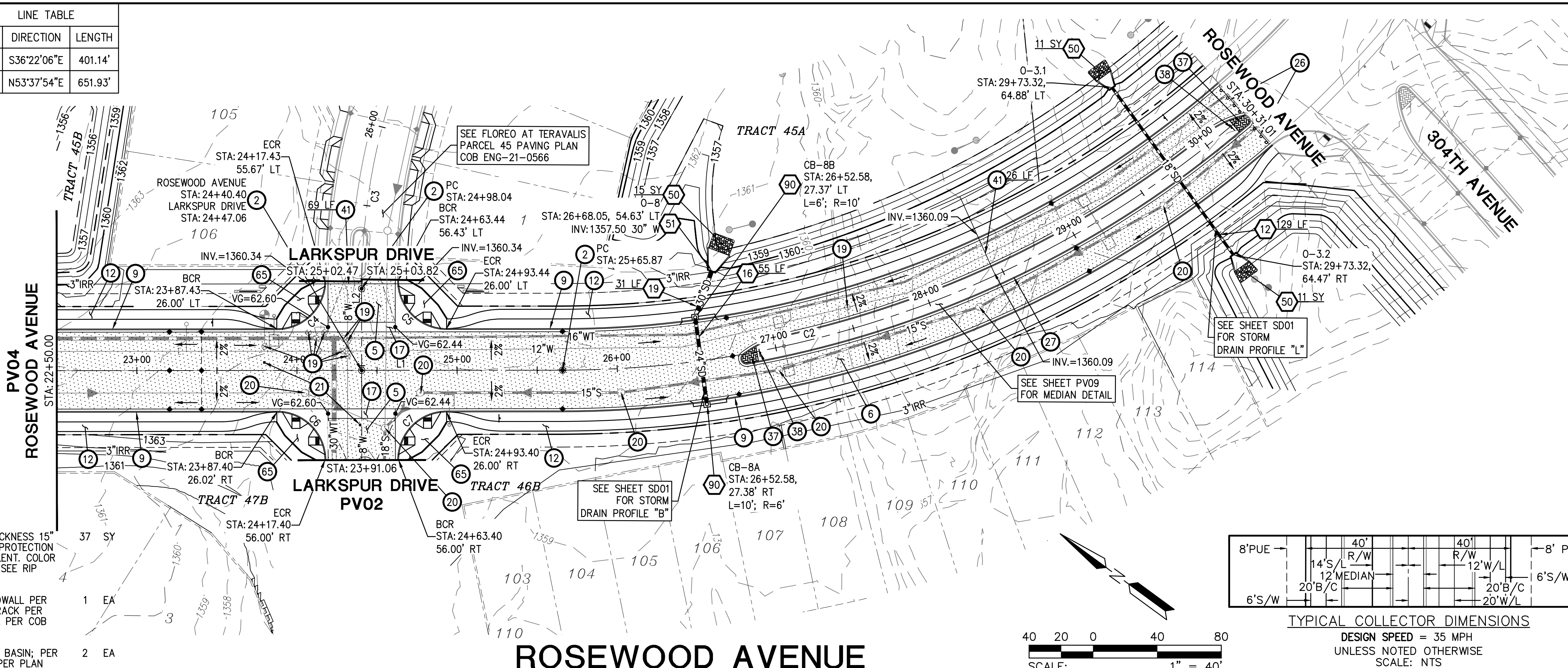
ENGINEER INFORMATION		SUBMITTAL: 2ND SUBMITTAL
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	
AS-BUILT SEAL	DESIGN SEAL	
PROJECT NUMBER: 1175	LATEST REVISION DATE: Feb-23	
PROJECT NUMBER: 1175	SHEET NUMBER: PV02	COB PLAN TRACKING # ENG-ENG-23-0057
	SHT. OF 19	COB PERMIT # ENG-21-0288

Copyright, HilgartWilson - This plan document set is the sole property of HilgartWilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized HilgartWilson employees.

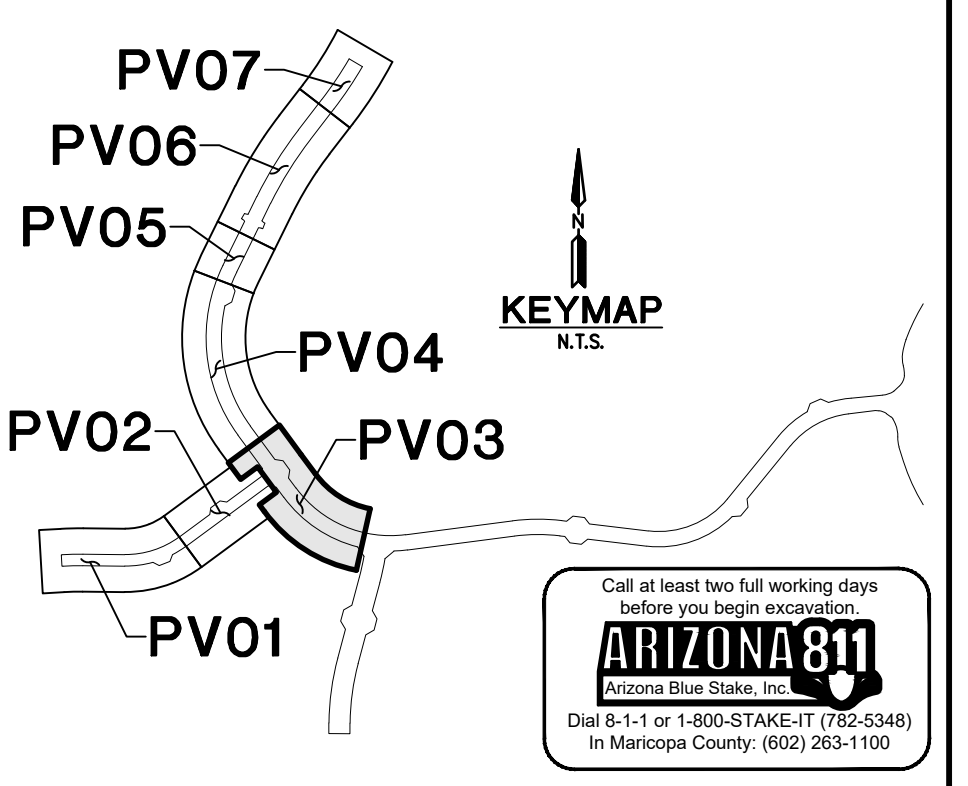
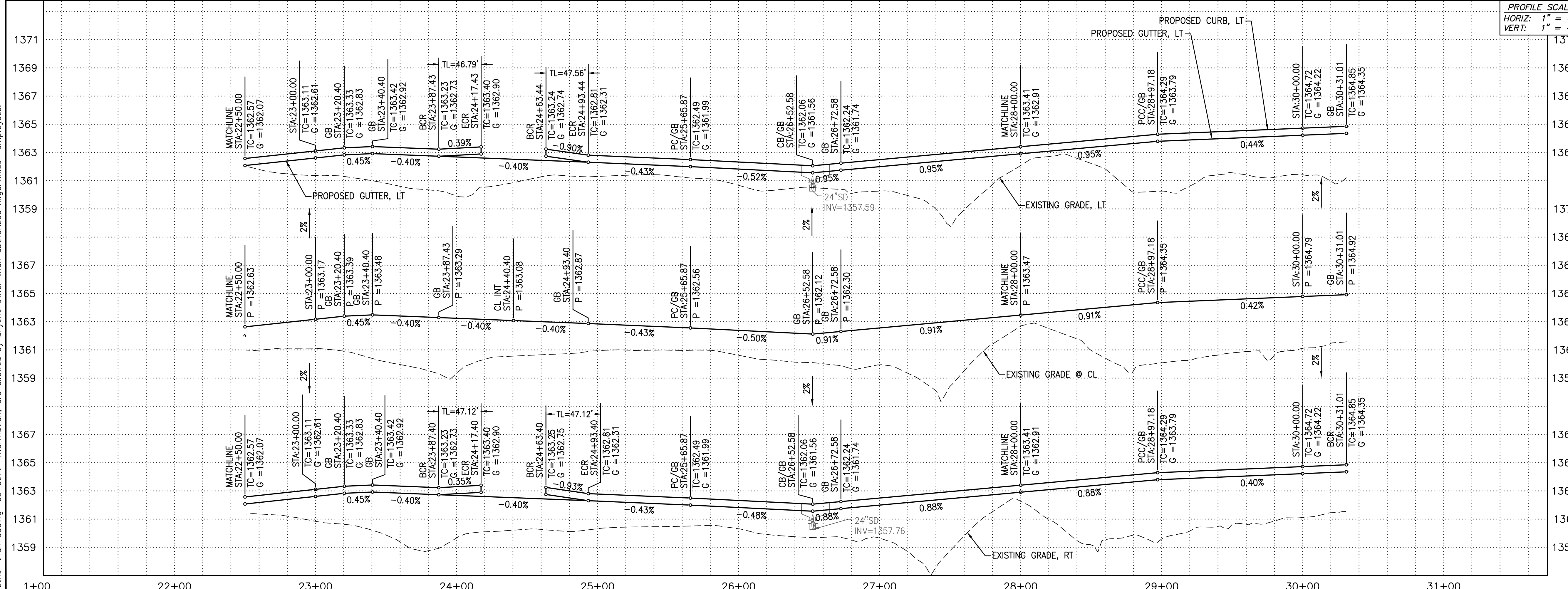
CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C2	650.00'	47°19'28"	536.88'	L1	S36°22'06"E	401.14'
C3	400.00'	57°35'19"	402.04'	L2	N53°37'54"E	651.93'
C4	30.00'	89°21'53"	46.79'			
C5	30.00'	90°49'45"	47.56'			
C6	30.00'	90°00'00"	47.12'			
C7	30.00'	90°00'00"	47.12'			

NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.

- 50 PLACE LOOSE RIP-RAP D50=6", THICKNESS 15" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP RAP DETAIL ON DT03
- 51 CONSTRUCT CONCRETE OUTLET HEADWALL PER COB STD DTL 51200 WITH TRASH RACK PER COB STD DTL B-508 AND HANDRAIL PER COB STD B-110
- 90 CONSTRUCT MODIFIED PUBLIC CATCH BASIN: PER COB DTL B-510A & B-510B; SIZE PER PLAN



PAVING CONSTRUCTION		
2	INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'.	3 EA
5	INSTALL PAVEMENT 3" AC OVER 8" ABC; SEE TYPICAL STREET SECTION ON DT03.	243 SY
6	INSTALL PAVEMENT 6" AC (2" OF A 12.5MM RESIDENTIAL OVER 4" OF A 19.0MM ARTERIAL SUPERPAVE) OVER 10" ABC; SEE TYPICAL SECTION ON SHEET DT03	3550 SY
9	CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A.	1539 LF
12	CONSTRUCT 5' SIDEWALK; MAG STD DTL 230.	8120 SF
17	CONSTRUCT 6' CONCRETE VALLEY GUTTER & APRON; MAG STD DTL 240 WITH FIBER MESH.	1383 SF
19	ADJUST WATER VALVE BOX & COVER PER MAG DTL 391-2.	9 EA
20	ADJUST MANHOLE FRAME & COVER PER MAG STD DTL 422 AND COB DTL 41260.	7 EA
21	INSTALL FIRE HYDRANT PAVEMENT MARKER; PER COB DTL 31440.	2 EA
26	REMOVE EXISTING BARRICADE.	35 LF
27	CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A, WITH DEPRESSION LIP.	716 LF
37	CONSTRUCT 80 MM INTERLOCKING CONCRETE PAVERS PER COB DTL 632206; 10' MIN. LENGTH PER COB STD. DTL. 63220.	2 EA
38	INSTALL STREET SIGN POST; PER COB DTL 65120.	2 EA
41	INSTALL 6" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS.	95 LF
65	CONSTRUCT DIRECTIONAL SIDEWALK RAMPS PER COB STD DTL 63240.	4 EA
STORM DRAIN CONSTRUCTION		
12	INSTALL 18" RGRCP STORM DRAIN, CLASS V	129 LF
16	INSTALL 24" RGRCP STORM DRAIN, CLASS V	55 LF
19	INSTALL 30" RGRCP STORM DRAIN, CLASS IV.	31 LF

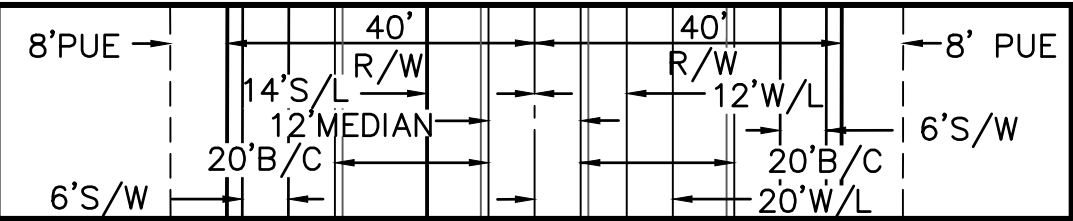


FLORO AT TERAVALIS COLLECTORS - PHASE 2 PAVING PLAN & PROFILE	
ENGINEER INFORMATION	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE
PROJECT NUMBER 1175	SHEET NUMBER SHT. PV03 7 OF 19
SUBMITTAL: 2ND SUBMITTAL	COB PLAN TRACKING # ENG-ENG-23-0057 COB PERMIT # ENG-21-0288

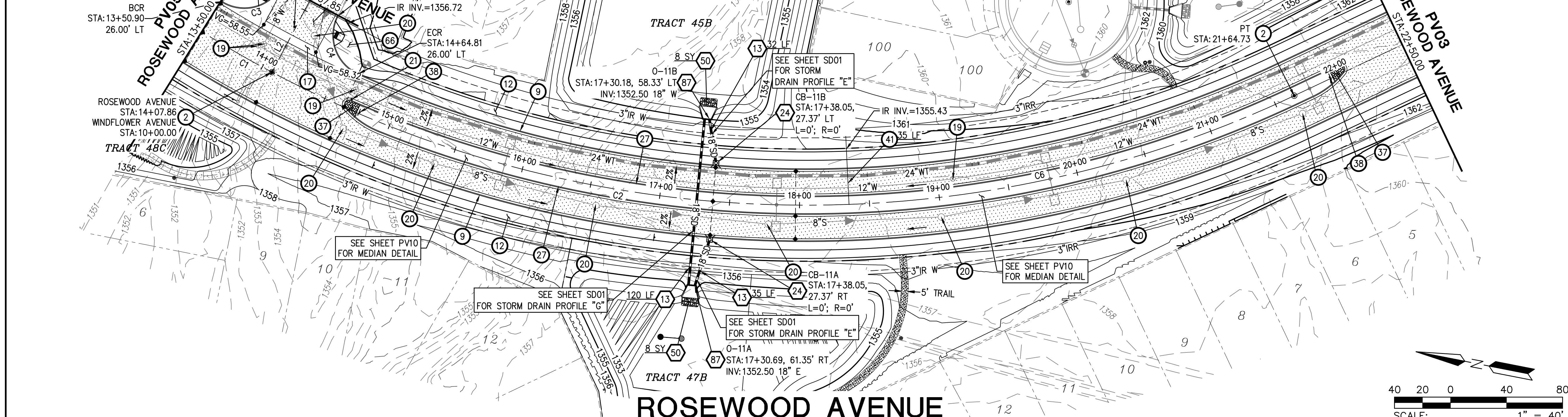
Copyright, Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.

CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C1	815.00'	9°22'48"	133.42'	L2	S73°09'33"E	210.18'
C2	815.00'	53°12'33"	756.87'			
C3	30.00'	94°00'15"	49.22'			
C4	30.00'	94°00'15"	49.22'			
C6	815.00'	62°35'20"	890.29'			

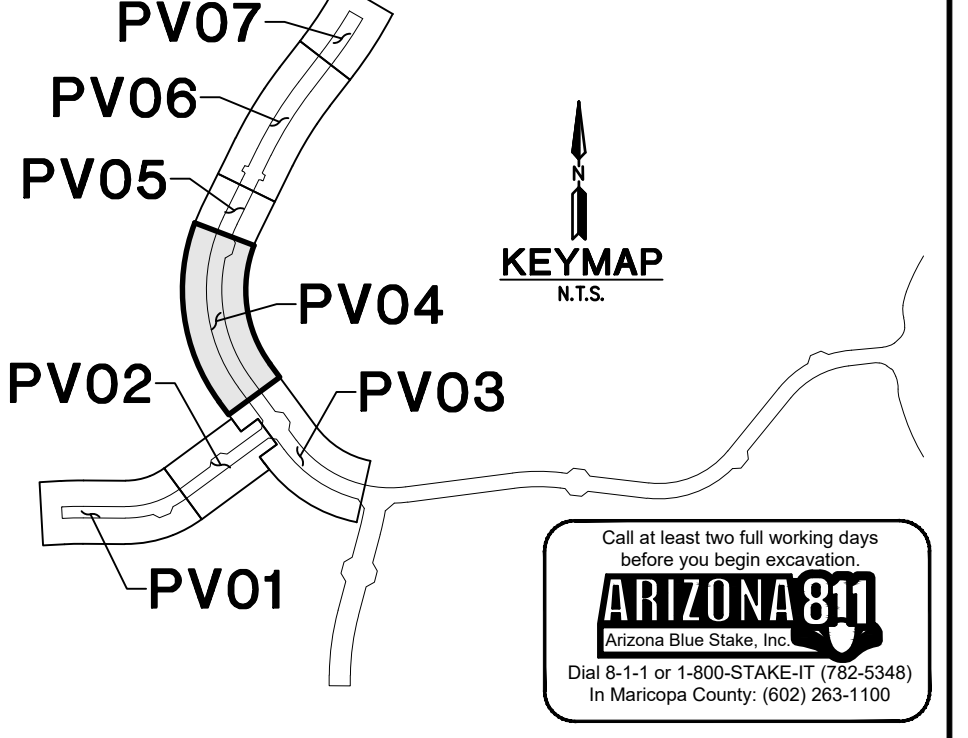
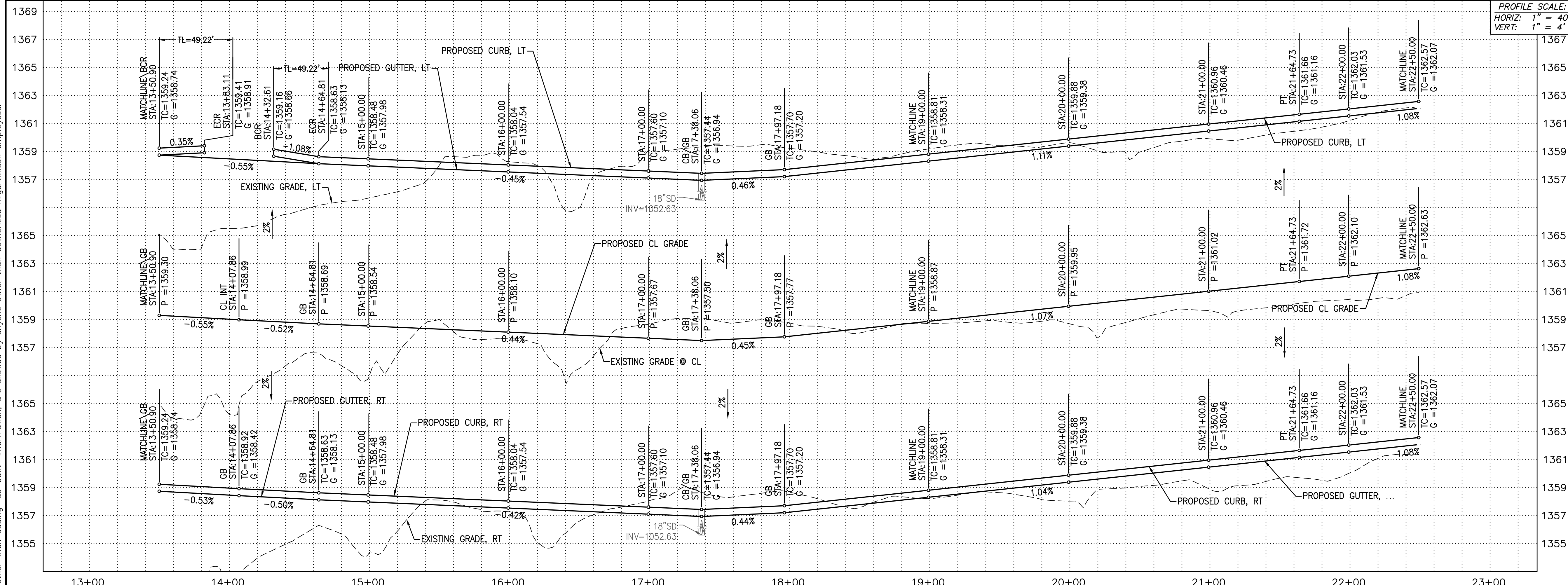
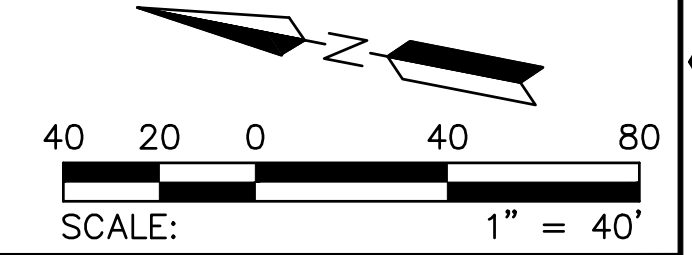
NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



TYPICAL COLLECTOR DIMENSIONS
DESIGN SPEED = 35 MPH
UNLESS NOTED OTHERWISE
SCALE: NTS



- PAVING CONSTRUCTION**
- 2 INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'. 2 EA
 - 5 INSTALL PAVEMENT 3" AC OVER 8" ABC; SEE TYPICAL STREET SECTION ON DT03. 130 SY
 - 9 CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A. 1738 LF
 - 12 CONSTRUCT 5' SIDEWALK; MAG STD DTL 230. 10146 SF
 - 17 CONSTRUCT 6' CONCRETE VALLEY GUTTER & APRON; MAG STD DTL 240 WITH FIBER MESH. 751 SF
 - 19 ADJUST WATER VALVE BOX & COVER PER MAG DTL 391-2. 4 EA
 - 20 ADJUST MANHOLE FRAME & COVER PER MAG STD DTL 422 AND COB DTL 41260. 8 EA
 - 21 INSTALL FIRE HYDRANT PAVEMENT MARKER; PER COB DTL 31440. 2 EA
 - 27 CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A, WITH DEPRESSED LIP. 2980 LF
 - 37 CONSTRUCT 80 MM INTERLOCKING CONCRETE PAVERS PER COB DTL 632206; 10' MIN. LENGTH PER COB STD. DTL. 63220. 2 EA
 - 38 INSTALL STREET SIGN POST; PER COB DTL 65120. 2 EA
 - 41 INSTALL 6" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS. 98 LF
 - 66 CONSTRUCT DIRECTIONAL SIDEWALK RAMP PER COB STD DTL 63240, MODIFIED FOR A SINGLE RAMP. 2 EA
- STORM DRAIN CONSTRUCTION**
- 13 INSTALL 18" RGRCP STORM DRAIN, CLASS IV 187 LF
 - 24 CONSTRUCT CATCH BASIN; PER COB DTL B-510A & B-510B; SIZE PER PLAN 2 EA
 - 50 PLACE LOOSE RIP-RAP D50=6", THICKNESS 15" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP RAP DETAIL ON DT03 16 SY
 - 87 CONSTRUCT CONCRETE HEADWALL MODIFIED FOR 2 PIPES PER COB STD DTL 51200 TYPE AS NOTED WITH TRASH RACK PER COB DTL B-508 AND HAND RAIL PER COB STD DTL B-110. 2 EA



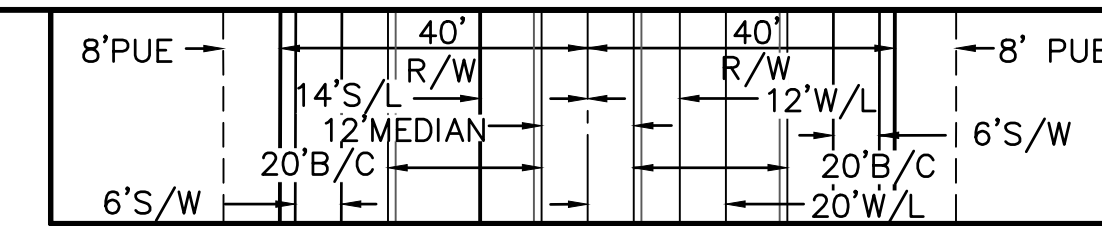
PROJECT NAME
FLOREO AT TERAVALIS COLLECTORS - PHASE 2 PAVING PLAN & PROFILE

ENGINEER INFORMATION		SUBMITTAL	2ND SUBMITTAL
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL		
AS-BUILT SEAL	DESIGN SEAL		
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE		
PROJECT NUMBER 1175	SHEET NUMBER SHT. PV04 8 OF 19	COB PLAN TRACKING # ENG-ENG-23-0057	COB PERMIT # ENG-21-0288

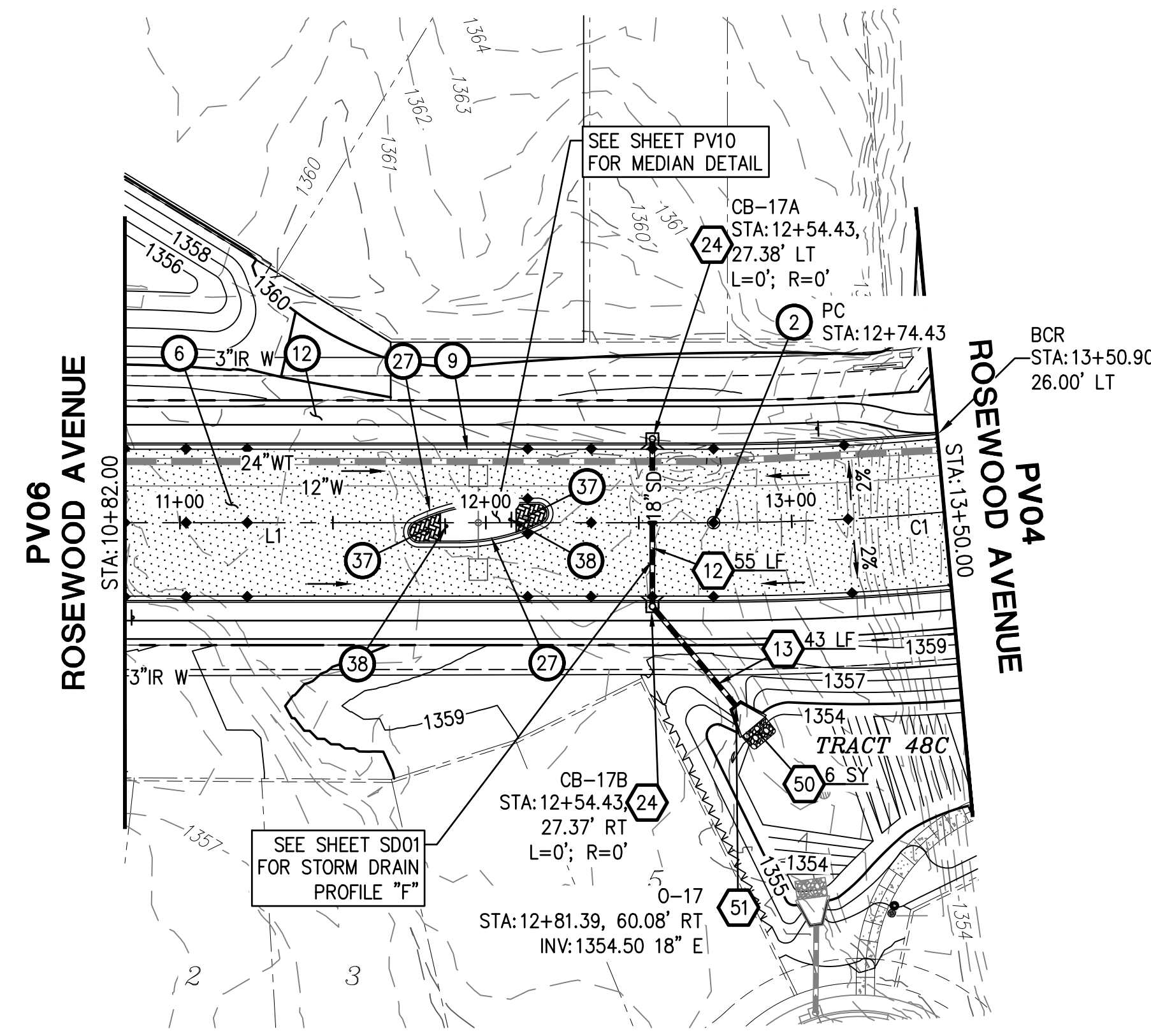
Copyright, HilgartWilson - This plan document set is the sole property of HilgartWilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized HilgartWilson employees.

CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C1	815.00'	9°22'48"	133.42'	L1	N26°13'14"E	274.43'

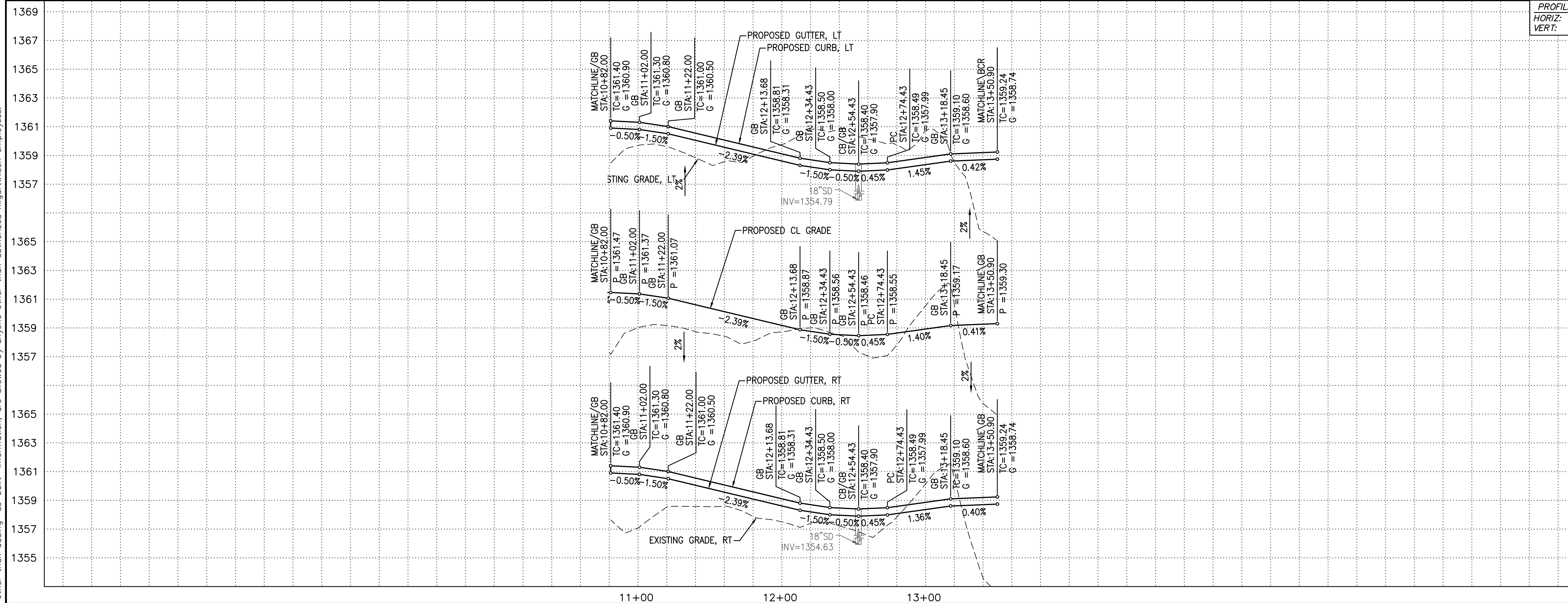
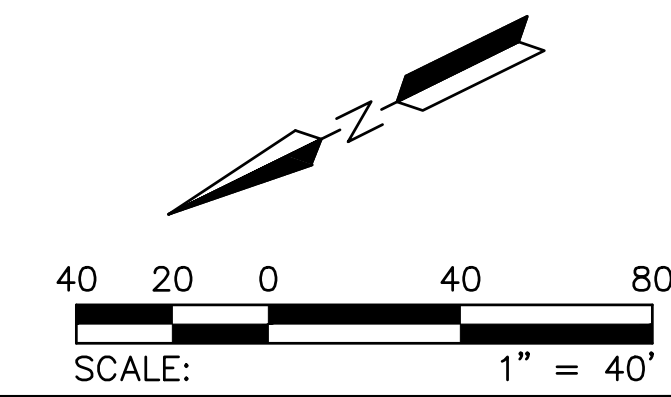
NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



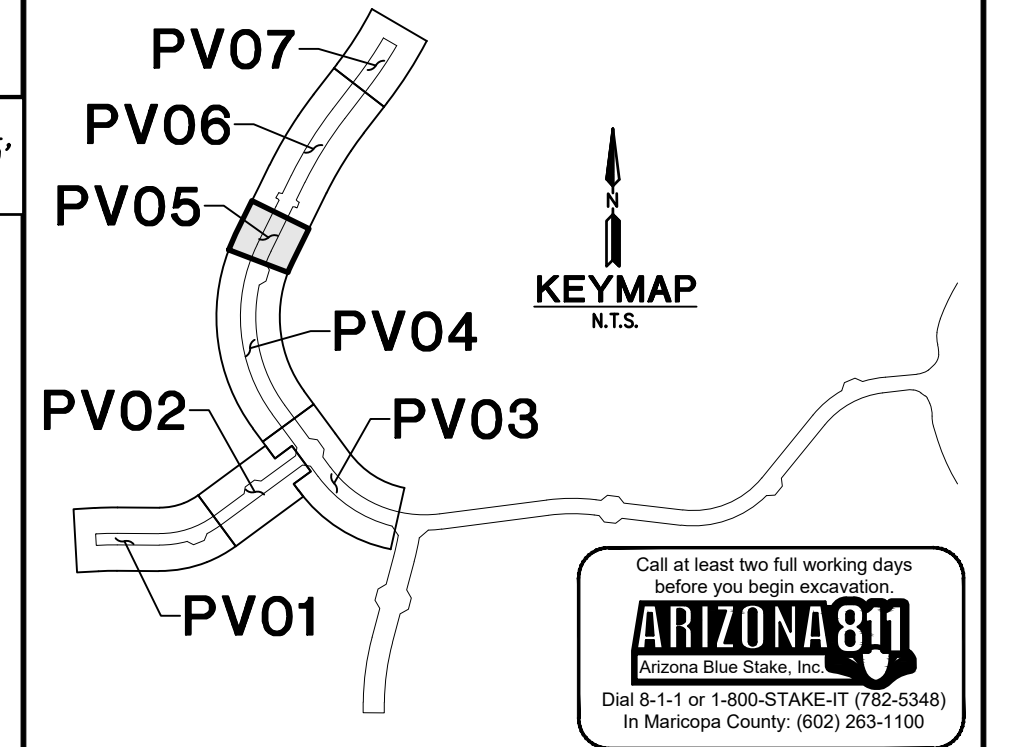
TYPICAL COLLECTOR DIMENSIONS
DESIGN SPEED = 35 MPH
UNLESS NOTED OTHERWISE
SCALE: NTS



ROSEWOOD AVENUE



- PAVING CONSTRUCTION**
- ② INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'. 1 EA
 - ⑥ INSTALL PAVEMENT 6" AC (2" OF A 12.5MM RESIDENTIAL OVER 4" OF A 19.0MM ARTERIAL SUPERPAVE) OVER 10" ABC; SEE TYPICAL SECTION ON SHEET DT03 1362 SY
 - ⑨ CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A. 266 LF
 - ⑫ CONSTRUCT 5' SIDEWALK; MAG STD DTL 230. 1599 SF
 - ⑲ CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A, WITH DEPRESSED LIP. 98 LF
 - ⑳ CONSTRUCT 80 MM INTERLOCKING CONCRETE PAVERS PER COB DTL 632206; 10' MIN. LENGTH PER COB STD. DTL. 63220. 2 EA
 - ㉔ INSTALL STREET SIGN POST; PER COB DTL 65120. 2 EA
- STORM DRAIN CONSTRUCTION**
- ⑫ INSTALL 18" RGRCP STORM DRAIN, CLASS V 55 LF
 - ⑬ INSTALL 18" RGRCP STORM DRAIN, CLASS IV 43 LF
 - ⑲ CONSTRUCT CATCH BASIN; PER COB DTL B-510A & B-510B; SIZE PER PLAN 2 EA
 - ⑵ PLACE LOOSE RIP-RAP D50=6", THICKNESS 15" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP RAP DETAIL ON DT03 6 SY
 - ⑶ CONSTRUCT CONCRETE OUTLET HEADWALL PER COB STD DTL B-508 WITH TRASH RACK PER COB STD DTL B-508 AND HANDRAIL PER COB STD B-110 1 EA

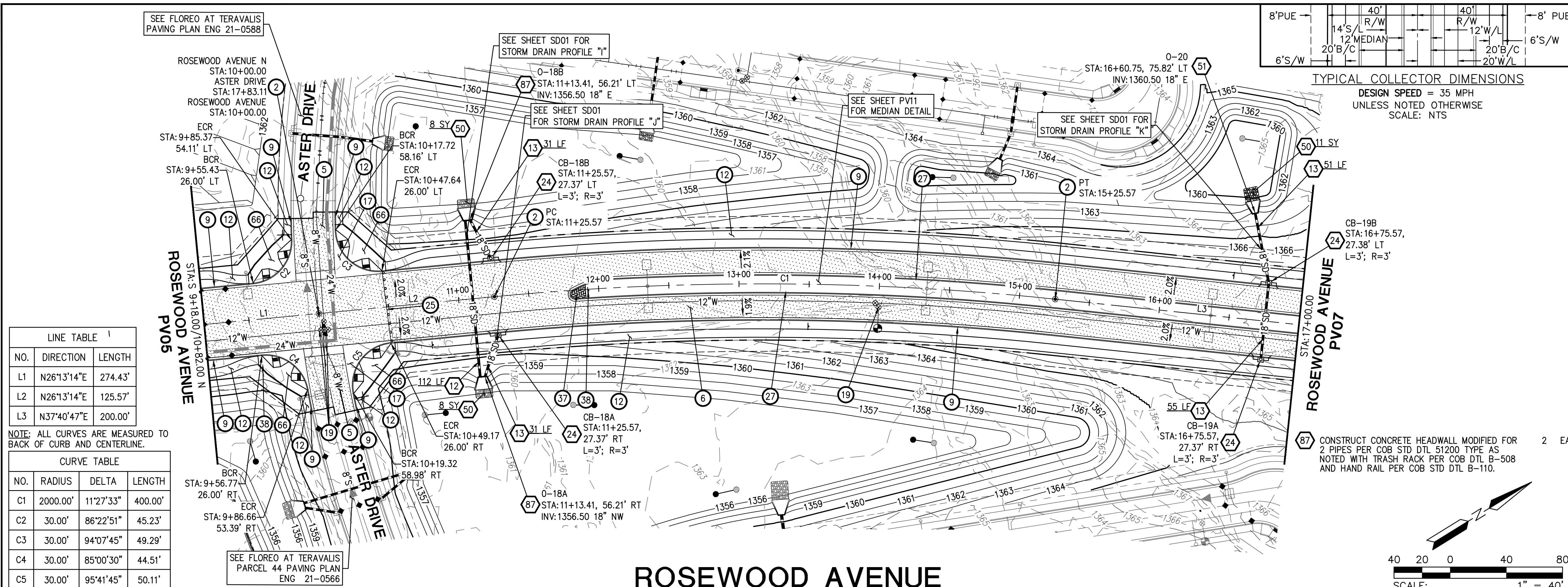


PLAN NAME
FLOREO AT TERAVALIS COLLECTORS - PHASE 2 PAVING PLAN & PROFILE

ENGINEER INFORMATION		SUBMITTAL	2ND SUBMITTAL
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL		
AS-BUILT SEAL	DESIGN SEAL		
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE		
PROJECT NUMBER 1175	SHEET NUMBER PV05	COB PLAN TRACKING # ENG-ENG-23-0057	SHT. 9 OF 19
		COB PERMIT # ENG-21-0288	

Copyright, Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.

Copyright, Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.



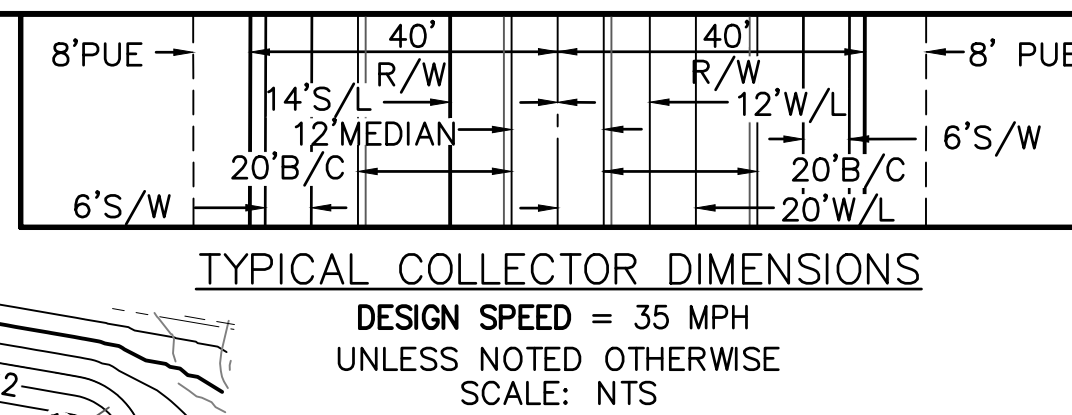
LINE TABLE

NO.	DIRECTION	LENGTH
L1	N26°13'14"E	274.43'
L2	N26°13'14"E	125.57'
L3	N37°40'47"E	200.00'

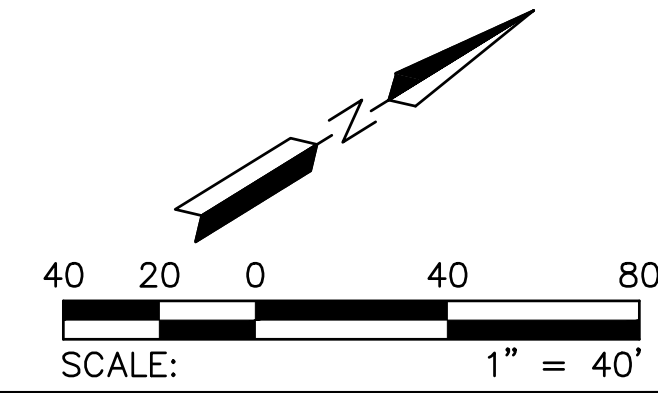
NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.

CURVE TABLE

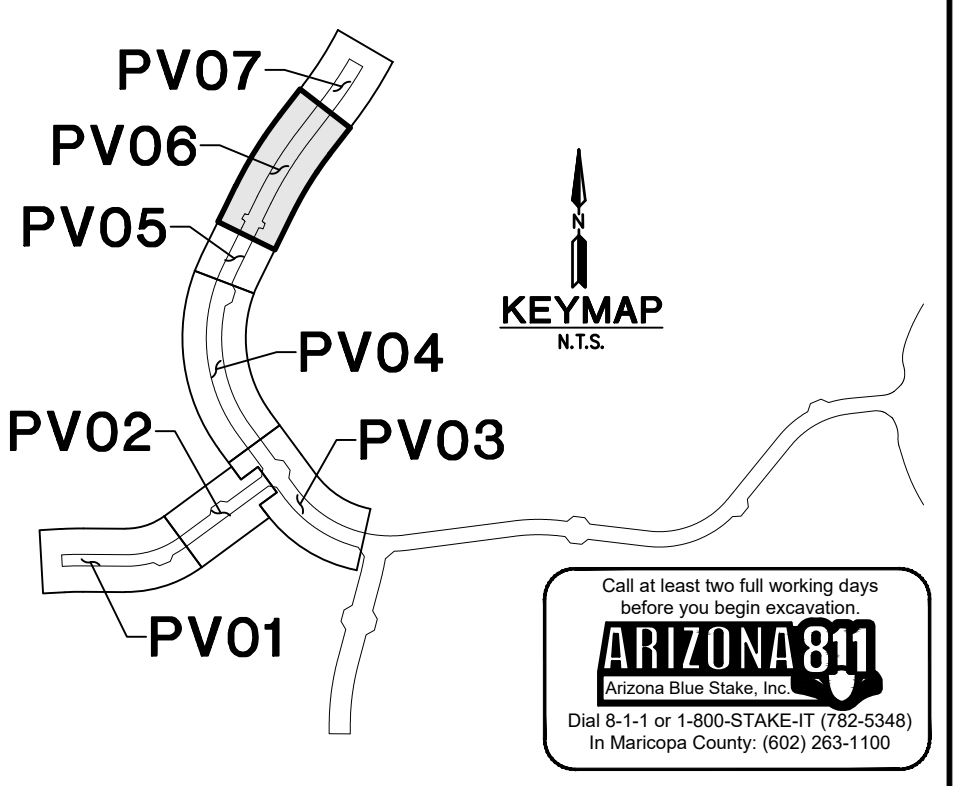
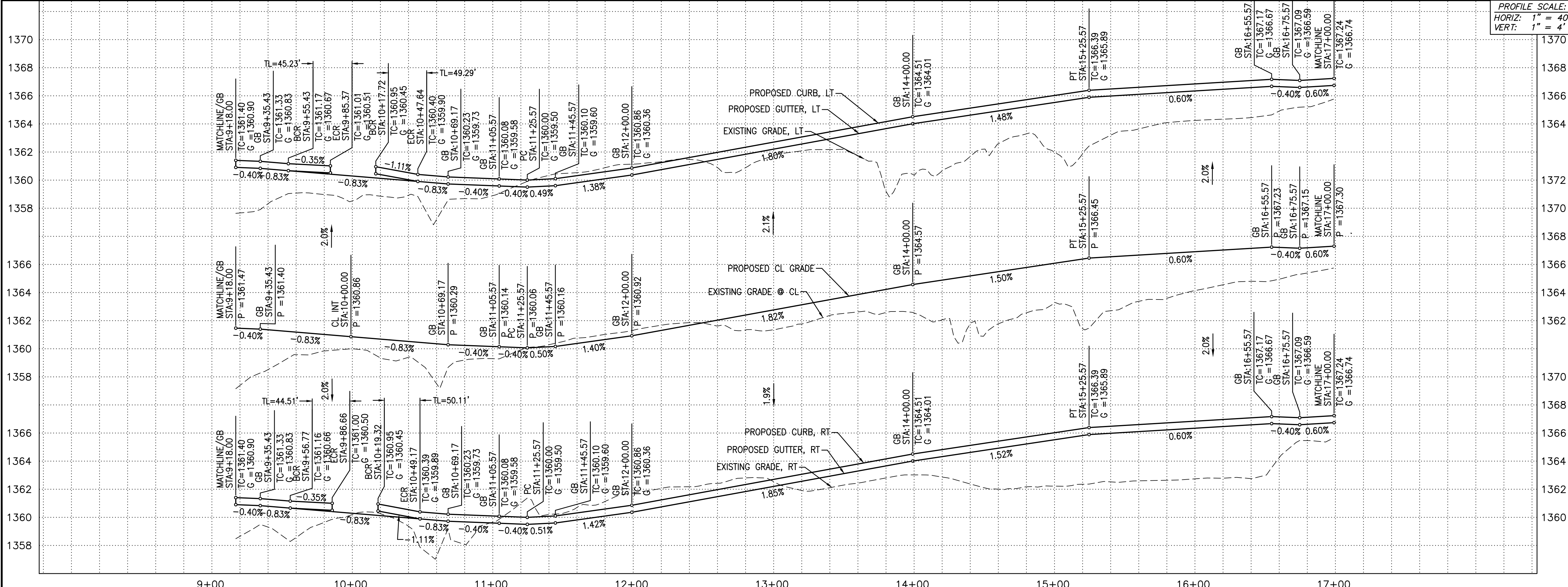
NO.	RADIUS	DELTA	LENGTH
C1	2000.00'	11°27'33"	400.00'
C2	30.00'	86°22'51"	45.23'
C3	30.00'	94°07'45"	49.29'
C4	30.00'	85°00'30"	44.51'
C5	30.00'	95°41'45"	50.11'



- PAVING CONSTRUCTION**
- 2 INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'. 3 EA
 - 5 INSTALL PAVEMENT 3" AC OVER 8" ABC; SEE TYPICAL STREET SECTION ON DT03. 250 SY
 - 6 INSTALL PAVEMENT 6" AC (2" OF A 12.5MM RESIDENTIAL OVER 4" OF A 19.0MM ARTERIAL SUPERPAVE) OVER 10" ABC; SEE TYPICAL SECTION ON SHEET DT03 3252 SY
 - 9 CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A. 1413 LF
 - 12 CONSTRUCT 5' SIDEWALK; MAG STD DTL 230. 8431 SF
 - 17 CONSTRUCT 6' CONCRETE VALLEY GUTTER & APRON; MAG STD DTL 240 WITH FIBER MESH. 1511 SF
 - 19 ADJUST WATER VALVE BOX & COVER PER MAG DTL 391-2. 2 EA
 - 25 INSTALL BARRICADE; MAG STD DTL 130 TYPE "A". 51 LF
 - 27 CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A, WITH DEPRESSED LIP. 1044 LF
 - 37 CONSTRUCT 80 MM INTERLOCKING CONCRETE PAVERS PER COB DTL 632206; 10' MIN. LENGTH PER COB STD. DTL. 63220. 1 EA
 - 38 INSTALL STREET SIGN POST; PER COB DTL 65120. 2 EA
 - 66 CONSTRUCT DIRECTIONAL SIDEWALK RAMPS PER COB STD DTL 63240, MODIFIED FOR A SINGLE RAMP. 4 EA
- STORM DRAIN CONSTRUCTION**
- 12 INSTALL 18" RGRCP STORM DRAIN, CLASS V 112 LF
 - 13 INSTALL 18" RGRCP STORM DRAIN, CLASS IV 168 LF
 - 24 CONSTRUCT CATCH BASIN; PER COB DTL B-510A & B-510B; SIZE PER PLAN 4 EA
 - 50 PLACE LOOSE RIP-RAP D50=6", THICKNESS 15" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP RAP DETAIL ON DT03 27 SY
 - 51 CONSTRUCT CONCRETE OUTLET HEADWALL PER COB STD DTL B-508 AND HANDRAIL PER COB STD B-110 1 EA



ROSEWOOD AVENUE



PLAN NAME
FLOREO AT TERAVALIS COLLECTORS - PHASE 2 PAVING PLAN & PROFILE

ENGINEER INFORMATION

HILGARTWILSON

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL
DESIGN SEAL

ORIGINAL PLAN DATE: Feb-23
LATEST REVISION DATE

PROJECT NUMBER: 1175
SHEET NUMBER: PV06 OF 19

COB PLAN TRACKING #
ENG-ENG-23-0057

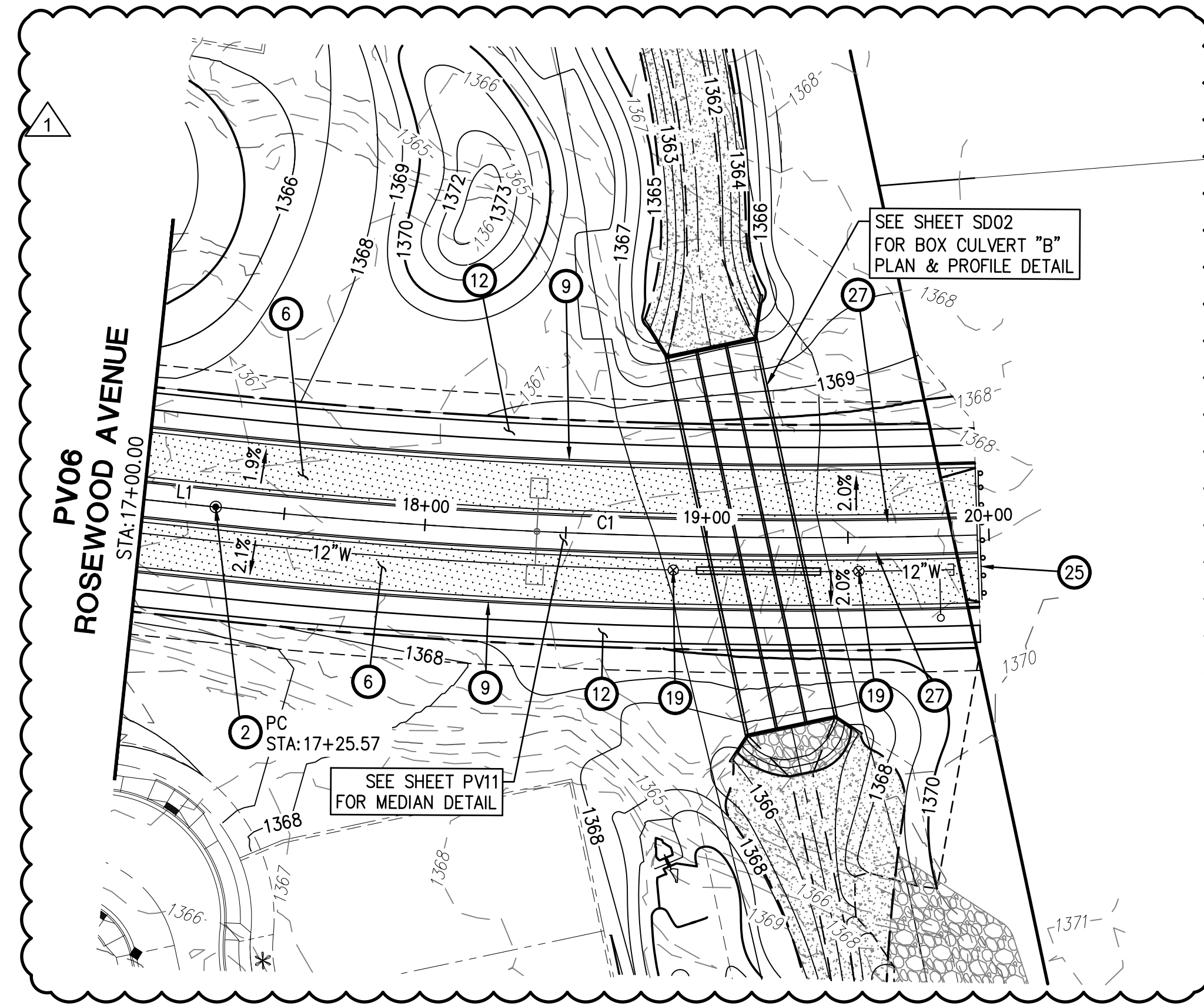
COB PERMIT #
ENG-21-0288

SUBMITTAL: 2ND SUBMITTAL

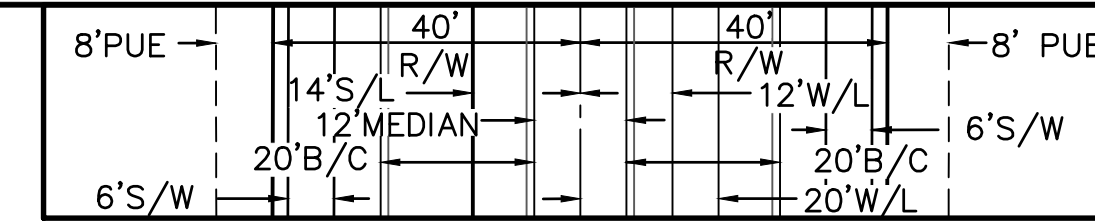
69427
JOSHUA ROBINSON
REGISTERED PROFESSIONAL ENGINEER
ARIZONA LICENSE # 21718

LINE TABLE			CURVE TABLE			
NO.	DIRECTION	LENGTH	NO.	RADIUS	DELTA	LENGTH
L1	N37°40'47"E	200.00'	C1	2000.00'	7°29'43"	261.64'

NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



ROSEWOOD AVENUE

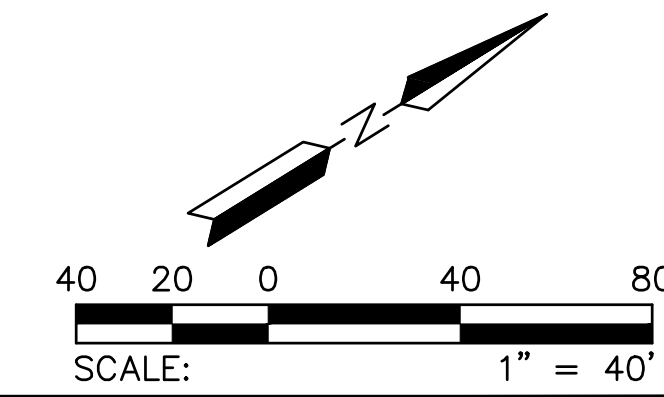


TYPICAL COLLECTOR DIMENSIONS
 DESIGN SPEED = 35 MPH
 UNLESS NOTED OTHERWISE
 SCALE: NTS

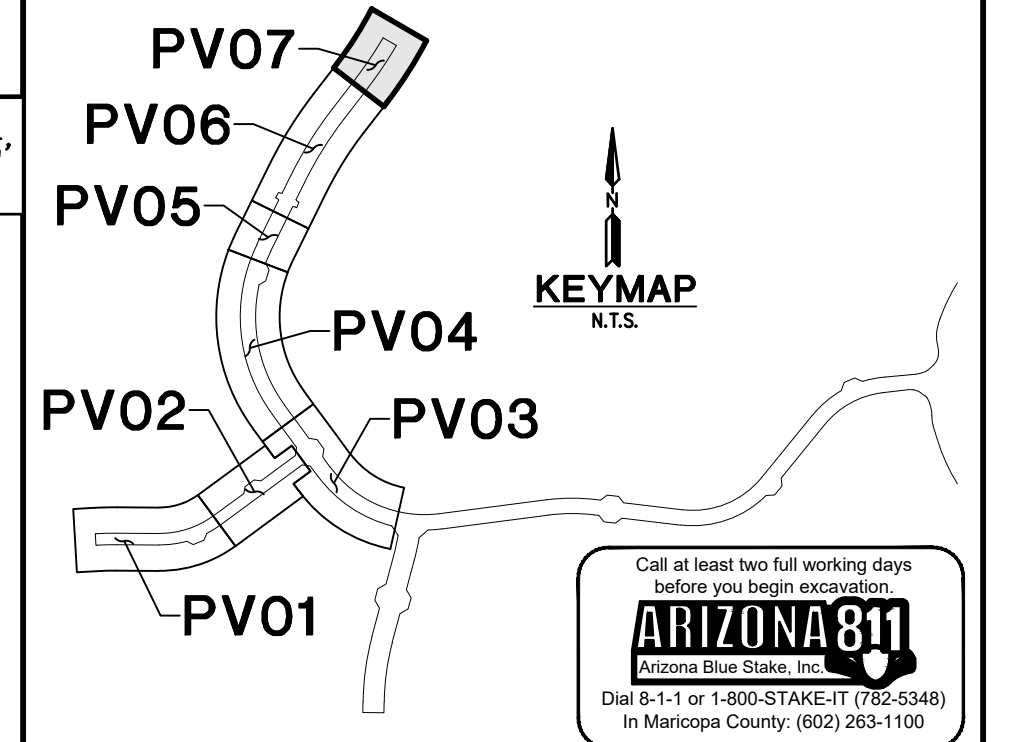
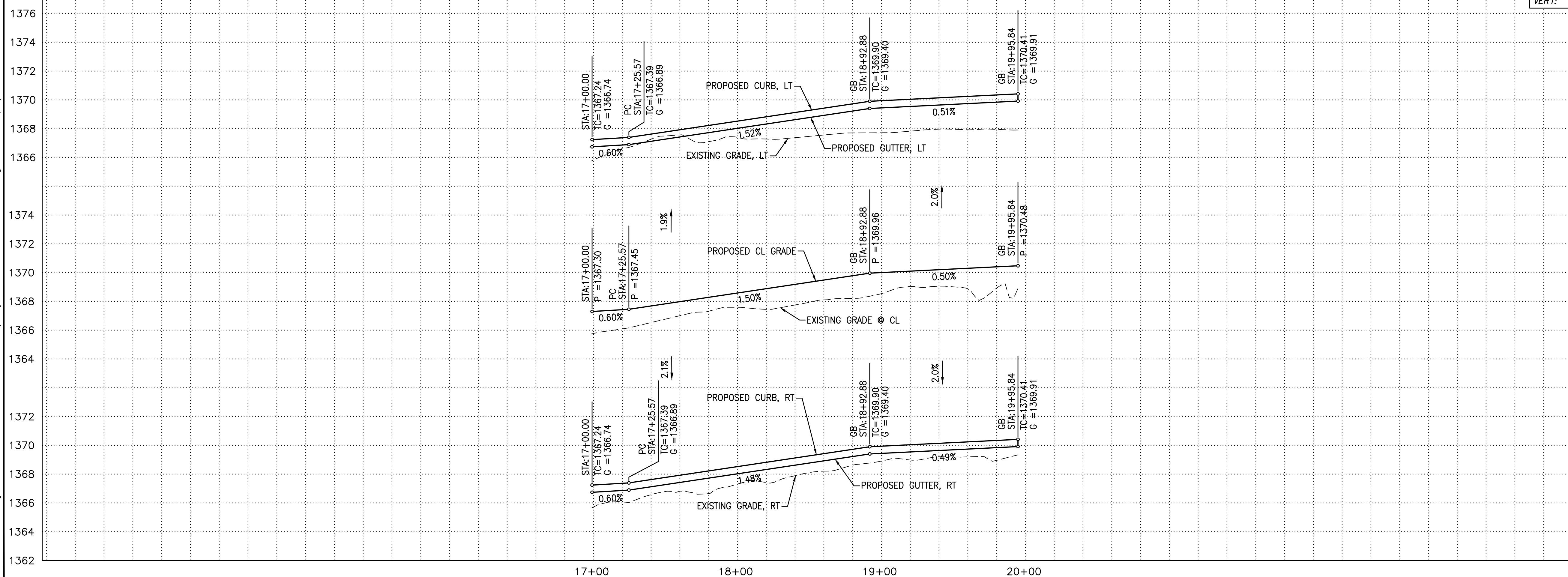
- PAVING CONSTRUCTION**
- ② INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE "B". 1 EA
 - ⑥ INSTALL PAVEMENT 6" AC (2" OF A 12.5MM RESIDENTIAL OVER 4" OF A 19.0MM ARTERIAL SUPERPAVE) OVER 10" ABC; SEE TYPICAL SECTION ON SHEET DT03. 1082 SY
 - ⑨ CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A. 591 LF
 - ⑫ CONSTRUCT 5' SIDEWALK; MAG STD DTL 230. 3549 SF
 - ⑰ ADJUST WATER VALVE BOX & COVER PER MAG DTL 391-2. 2 EA
 - ⑳ INSTALL BARRICADE; MAG STD DTL 130 TYPE "A". 46 LF
 - ㉓ CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A, WITH DEPRESSED LIP. 592 LF



① 07/19/2023 - ORIGINAL RIPRAP CHANNEL HAS BEEN REVISED TO A SOIL CEMENT CHANNEL, PROVIDING RESHAPING TO CONTOURS ALONG THE ENTIRE CHANNEL ALIGNMENT.



PROFILE SCALE:
 HORIZ: 1" = 40'
 VERT: 1" = 4'



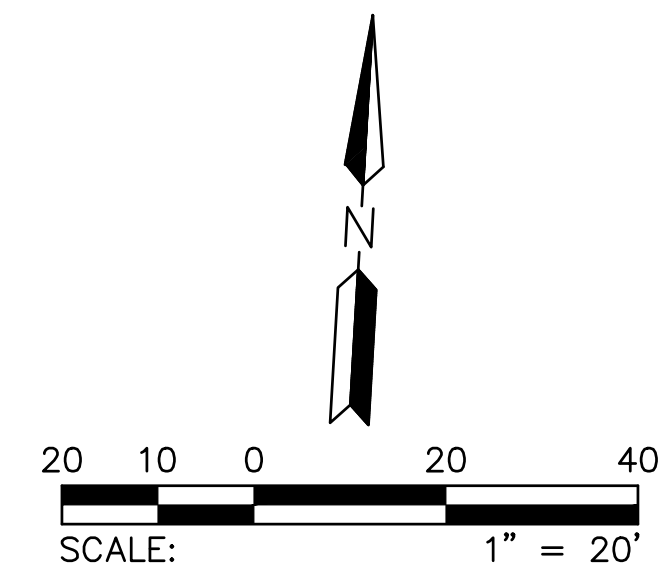
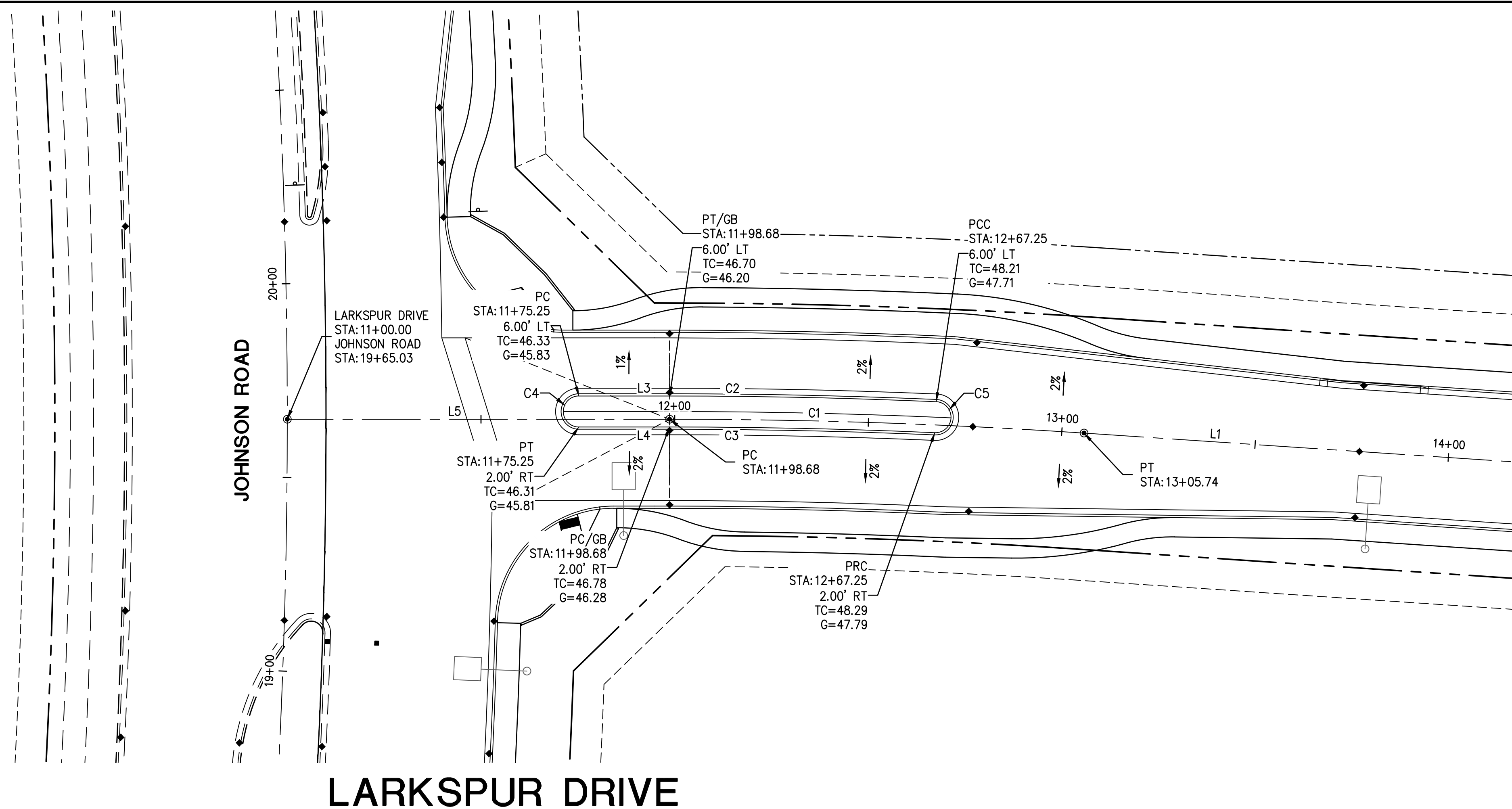
FLOREO AT TERAVALIS COLLECTORS - PHASE 2 PAVING PLAN & PROFILE

ENGINEER INFORMATION		SUBMITTAL: 2ND SUBMITTAL
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	COB PLAN TRACKING # ENG-ENG-23-0057 COB PERMIT # ENG-21-0288
AS-BUILT SEAL	DESIGN SEAL	
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE	
PROJECT NUMBER 1175	SHEET NUMBER SHT. PV07 11 OF 19	

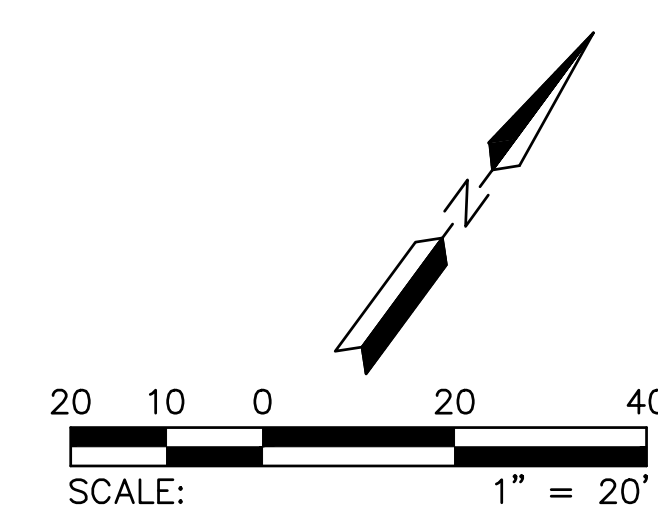
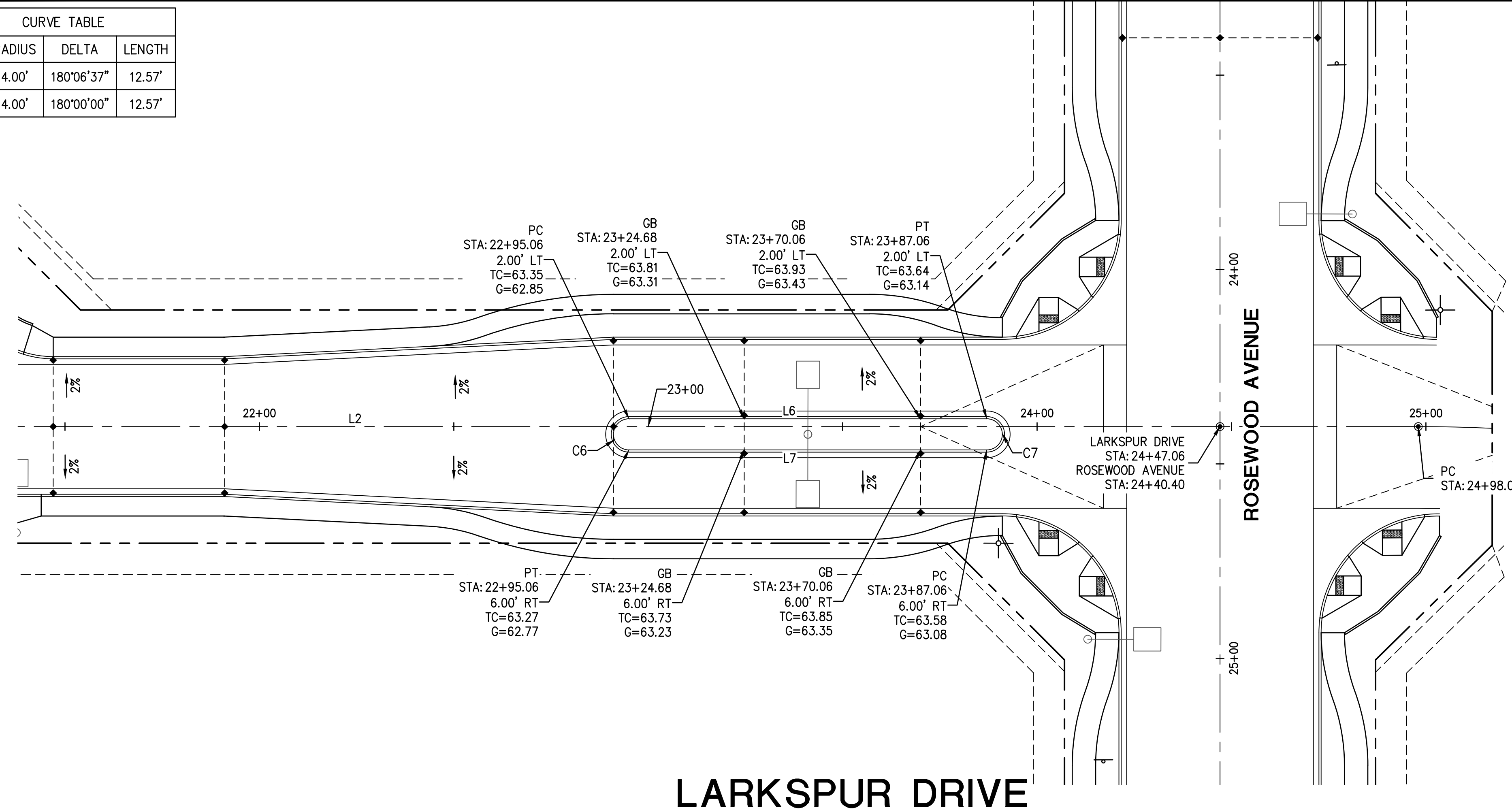
Copyright, Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.

CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C1	1600.00'	3°50'01"	107.05'	L1	S89°27'52"E	218.32'
C2	1606.00'	2°27'20"	68.83'	L3	N86°42'07"E	23.43'
C3	1598.00'	2°27'20"	68.49'	L4	S86°42'07"W	23.43'
C4	4.00'	180°00'00"	12.57'			
C5	4.00'	180°00'00"	12.57'			

NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



LINE TABLE			CURVE TABLE			
NO.	DIRECTION	LENGTH	NO.	RADIUS	DELTA	LENGTH
L2	N53°37'54"E	348.08'	C6	4.00'	180°06'37"	12.57'
L6	S53°37'54"W	92.00'	C7	4.00'	180°00'00"	12.57'
L7	N53°37'54"E	92.00'				

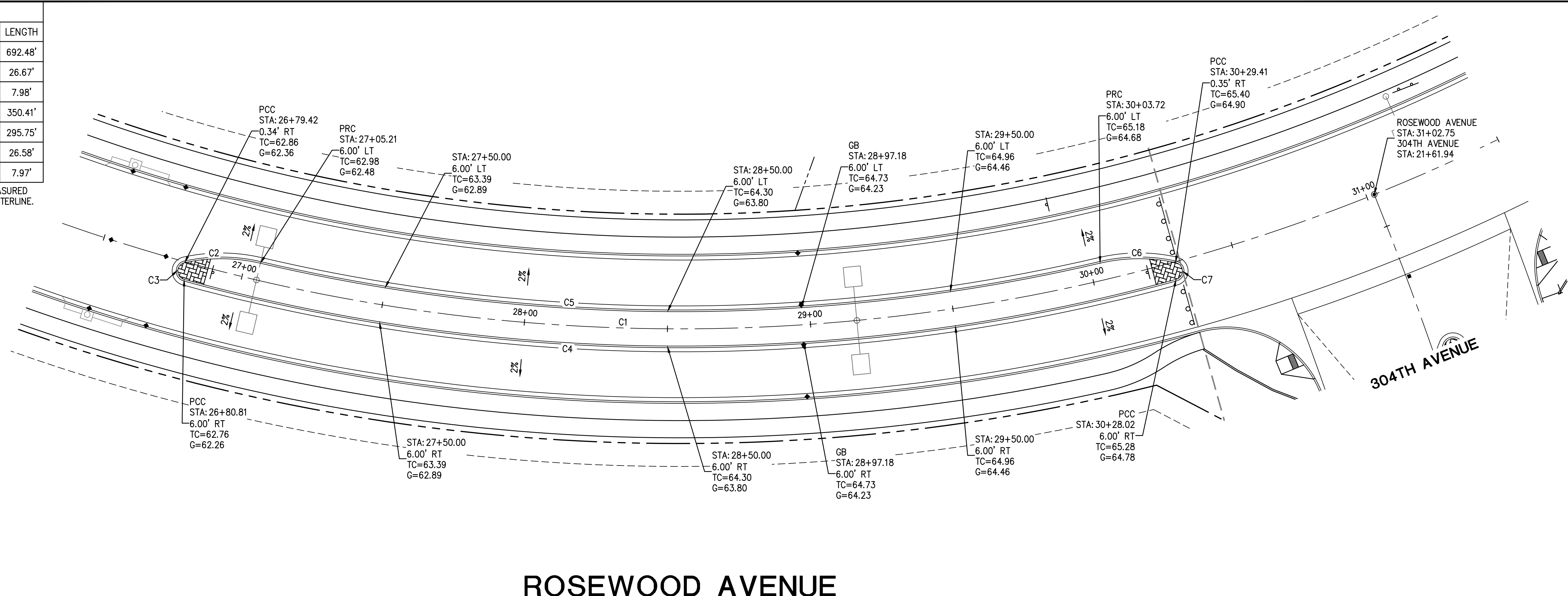


Copyright, Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.

PLAN NAME FLOREC AT TERAVALIS COLLECTORS - PHASE 2 MEDIAN DETAILS		SUBMITTAL: 2ND SUBMITTAL
ENGINEER INFORMATION 		
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: ENG-23-0057 COB PERMIT # ENG-21-0288
AS-BUILT SEAL	DESIGN SEAL 	
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE	
PROJECT NUMBER 1175	SHEET NUMBER SHT. PV08 12 OF 19	

CURVE TABLE			
NO.	RADIUS	DELTA	LENGTH
C1	650.00'	61°02'25"	692.48'
C2	60.00'	25°28'12"	26.67'
C3	3.00'	152°22'44"	7.98'
C4	656.00'	30°36'20"	350.41'
C5	644.00'	26°18'44"	295.75'
C6	59.50'	25°35'37"	26.58'
C7	3.00'	152°15'52"	7.97'


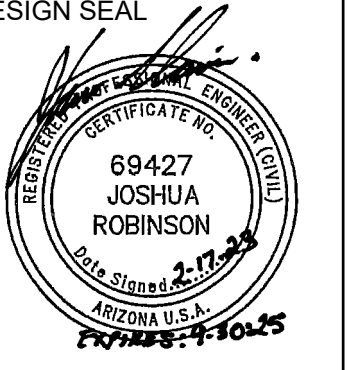
NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



ROSEWOOD AVENUE

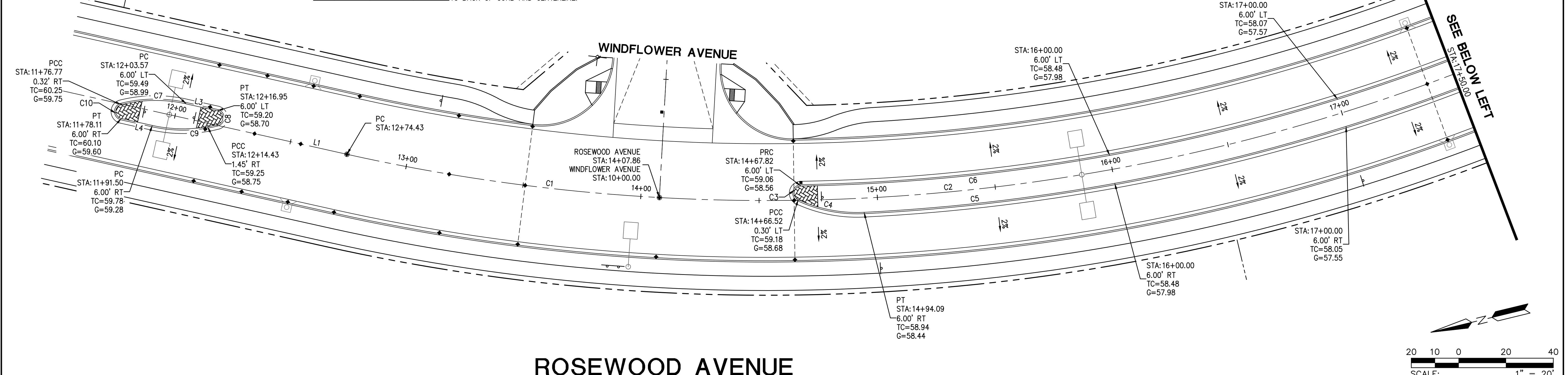


Copyright, Hilgartwilson — This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.

PLAN NAME FLOREO AT TERAVALIS COLLECTORS - PHASE 2 MEDIAN DETAILS	
ENGINEER INFORMATION  HILGARTWILSON	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL 
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE
PROJECT NUMBER 1175	SHEET NUMBER SH.T. PV09 13 OF 19
SUBMITTAL: 2ND SUBMITTAL	
COB PLAN TRACKING # ENG-23-0057	
COB PERMIT # ENG-21-0288	

LINE TABLE			CURVE TABLE			CURVE TABLE				
NO.	DIRECTION	LENGTH	NO.	RADIUS	DELTA	LENGTH	NO.	RADIUS	DELTA	LENGTH
L1	S26°13'14"W	274.43'	C1	815.00'	9°22'48"	133.42'	C7	60.00'	26°31'31"	27.78'
L3	S26°13'14"W	13.39'	C3	3.00'	154°15'49"	8.08'	C8	3.00'	153°28'27"	8.04'
L4	N26°13'14"E	13.39'	C4	59.50'	27°34'57"	28.64'	C9	60.00'	26°31'31"	27.78'
			C5	821.00'	17°59'28"	257.80'	C10	3.00'	153°28'29"	8.04'
			C6	809.00'	19°50'15"	280.10'				

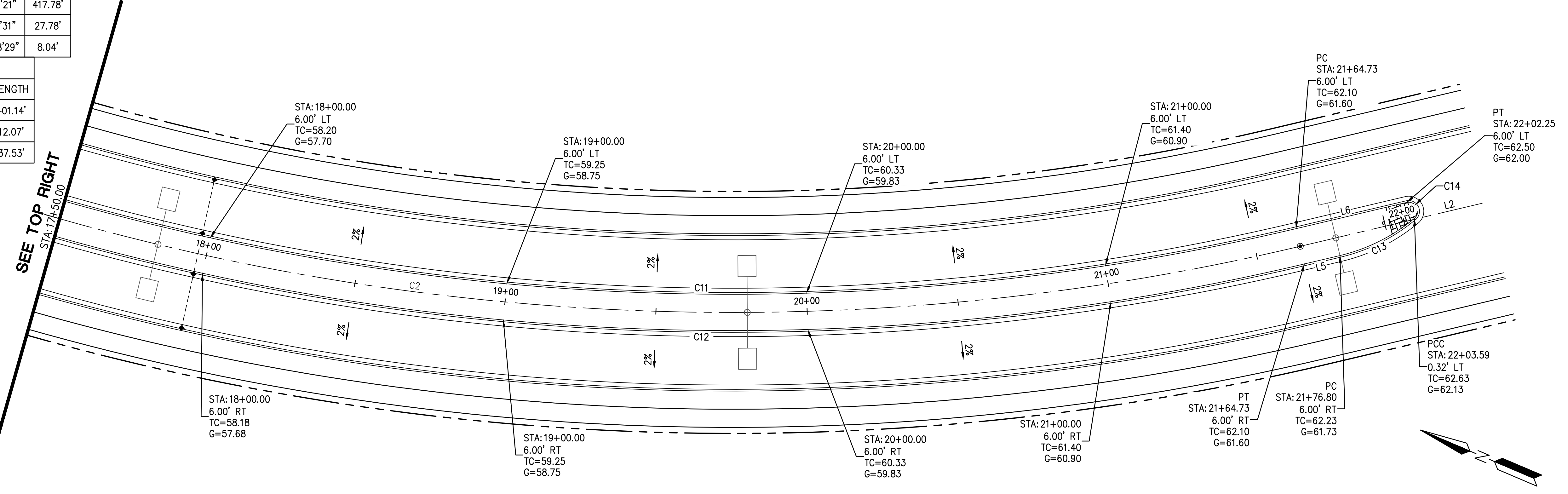
NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



ROSEWOOD AVENUE

CURVE TABLE			
NO.	RADIUS	DELTA	LENGTH
C2	815.00'	53°12'33"	756.87'
C11	809.00'	29°09'21"	411.67'
C12	821.00'	29°09'21"	417.78'
C13	60.00'	26°31'31"	27.78'
C14	3.00'	153°28'29"	8.04'

LINE TABLE		
NO.	DIRECTION	LENGTH
L2	S36°22'06"E	401.14'
L5	N36°22'06"W	12.07'
L6	S36°22'06"E	37.53'



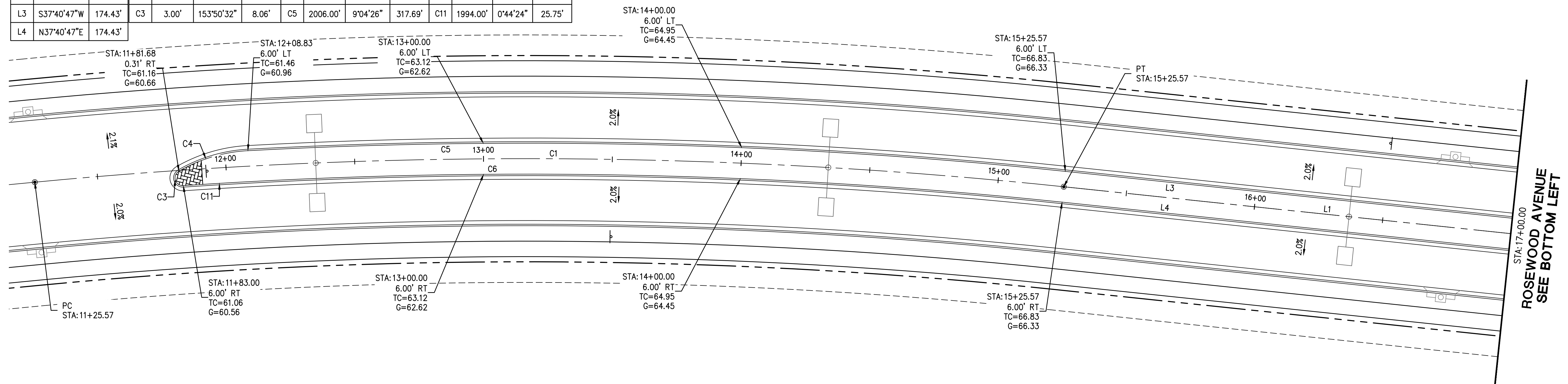
ROSEWOOD AVENUE

PLAN NAME FLOREO AT TERAVALIS COLLECTORS - PHASE 2 MEDIAN DETAILS	
ENGINEER INFORMATION HILGARTWILSON	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE
PROJECT NUMBER 1175	SHEET NUMBER SHT. PV10 14 OF 19
SUBMITTAL 2ND SUBMITTAL	COB PLAN TRACKING # ENG-23-0057 COB PERMIT # ENG-21-0288

Copyright, Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.

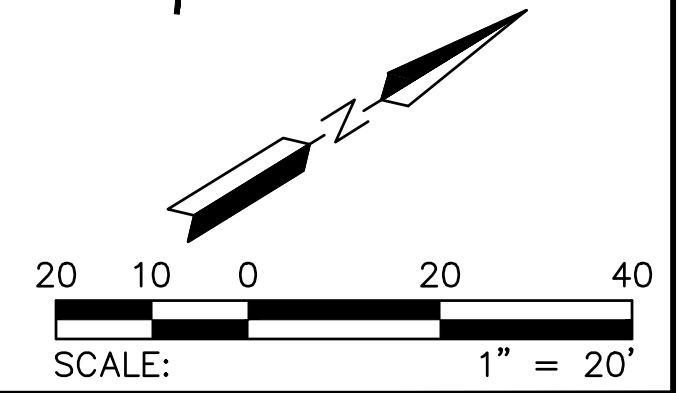
LINE TABLE			CURVE TABLE			CURVE TABLE			CURVE TABLE					
NO.	DIRECTION	LENGTH	NO.	RADIUS	DELTA	LENGTH	NO.	RADIUS	DELTA	LENGTH	NO.	RADIUS	DELTA	LENGTH
L1	N37°40'47"E	200.00'	C1	2000.00'	11°27'33"	400.00'	C4	60.00'	26°53'52"	28.17'	C6	1994.00'	9°04'26"	315.79'
L3	S37°40'47"W	174.43'	C3	3.00'	153°50'32"	8.06'	C5	2006.00'	9°04'26"	317.69'	C11	1994.00'	0°44'24"	25.75'
L4	N37°40'47"E	174.43'												

NOTE: ALL CURVES ARE MEASURED FROM BACK OF CURB OR CENTERLINE.

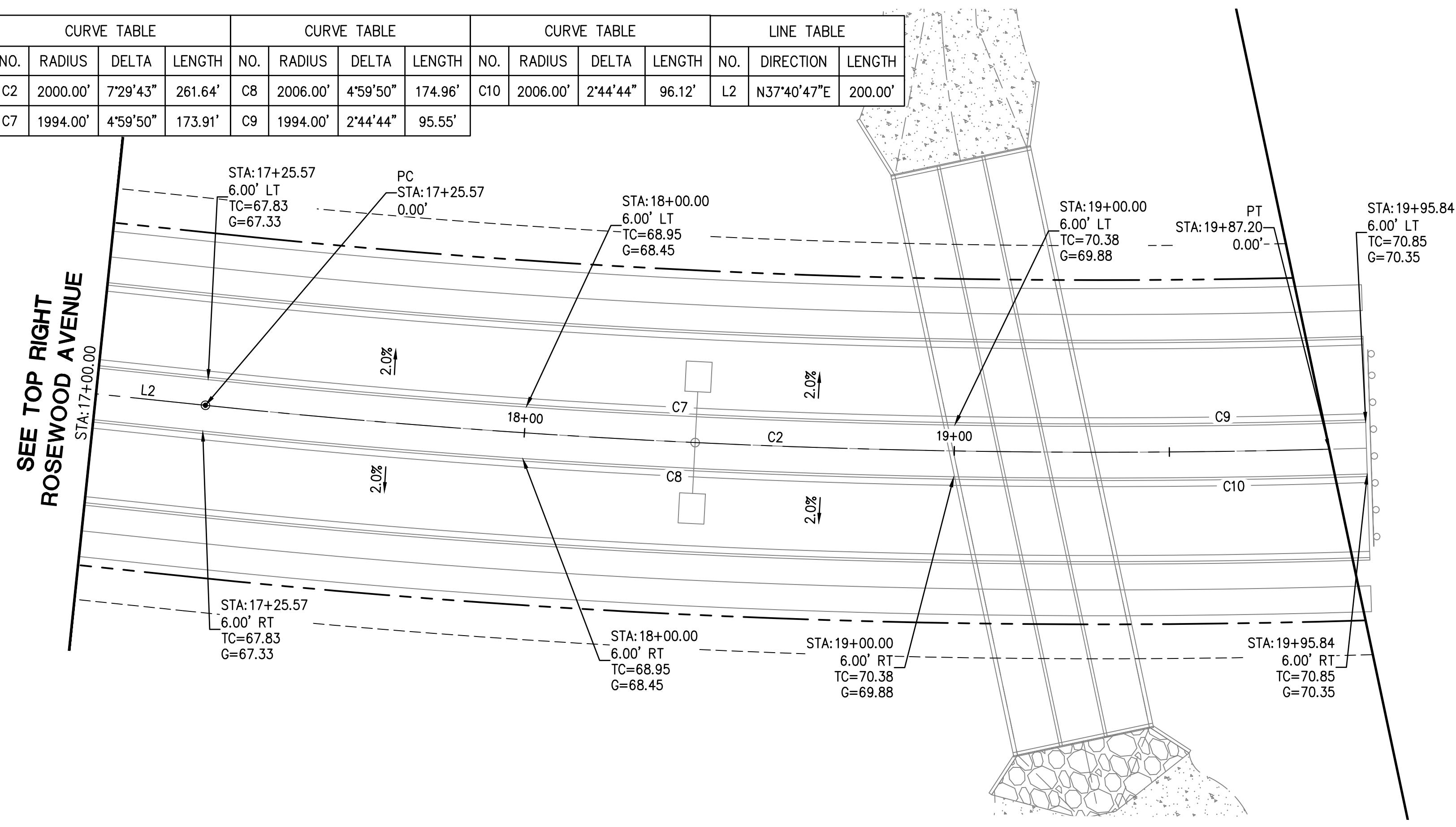


ROSEWOOD AVENUE
SEE BOTTOM LEFT

ROSEWOOD AVENUE

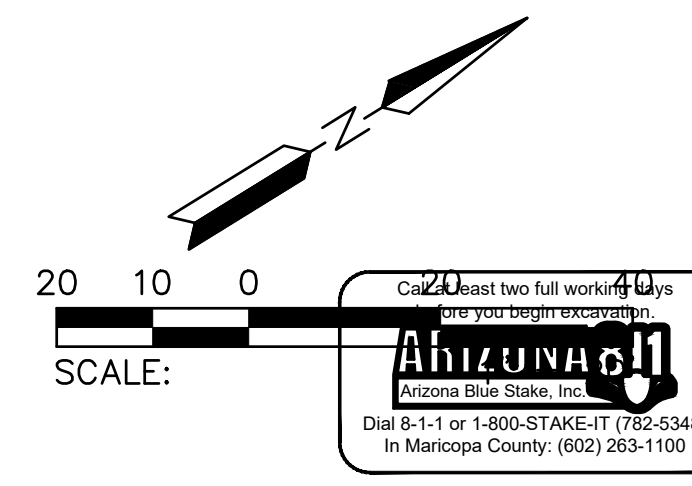


CURVE TABLE			CURVE TABLE			CURVE TABLE			LINE TABLE					
NO.	RADIUS	DELTA	LENGTH	NO.	RADIUS	DELTA	LENGTH	NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C2	2000.00'	7°29'43"	261.64'	C8	2006.00'	4°59'50"	174.96'	C10	2006.00'	2°44'44"	96.12'	L2	N37°40'47"E	200.00'
C7	1994.00'	4°59'50"	173.91'	C9	1994.00'	2°44'44"	95.55'							



SEE TOP RIGHT
ROSEWOOD AVENUE

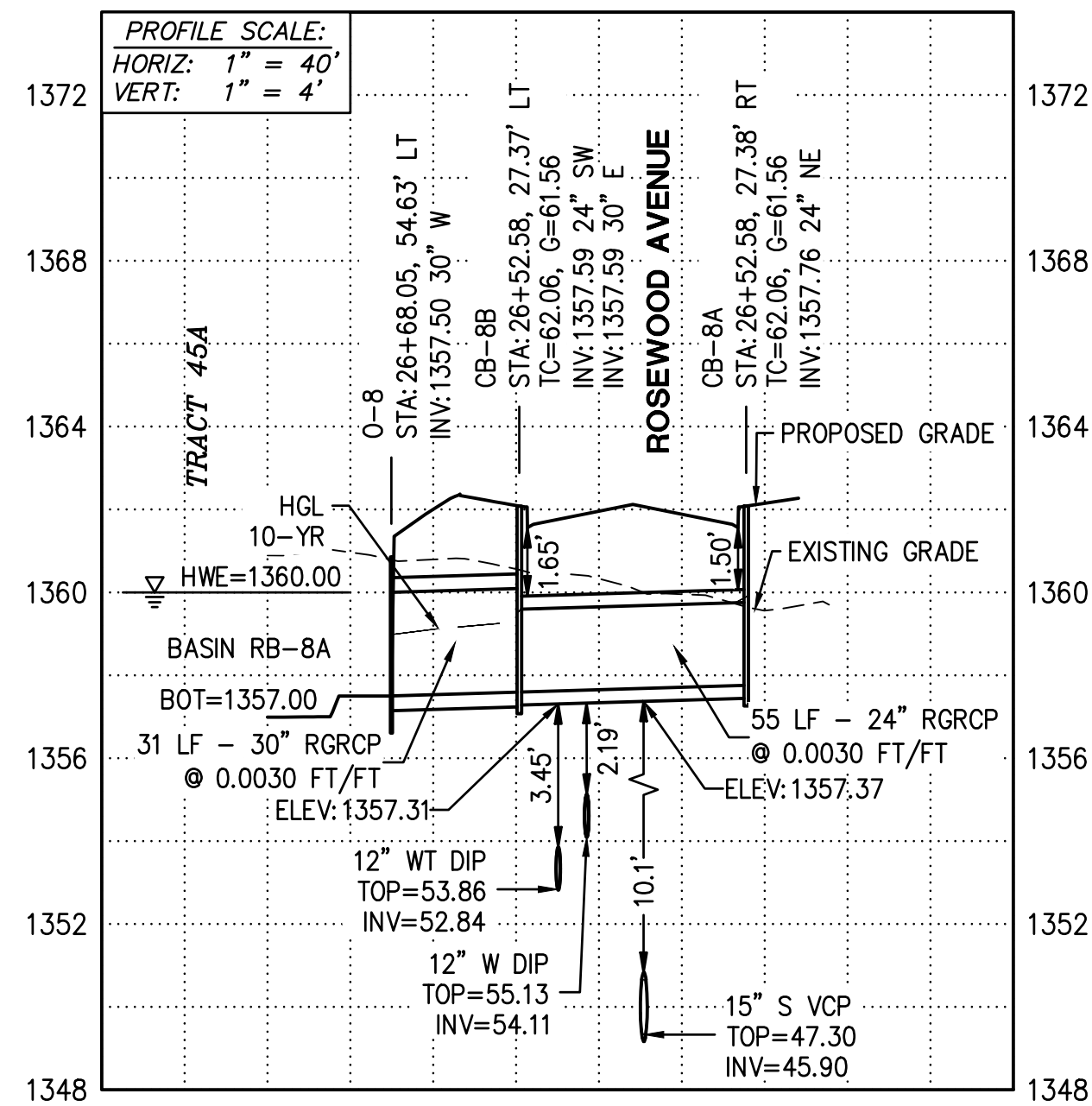
ROSEWOOD AVENUE



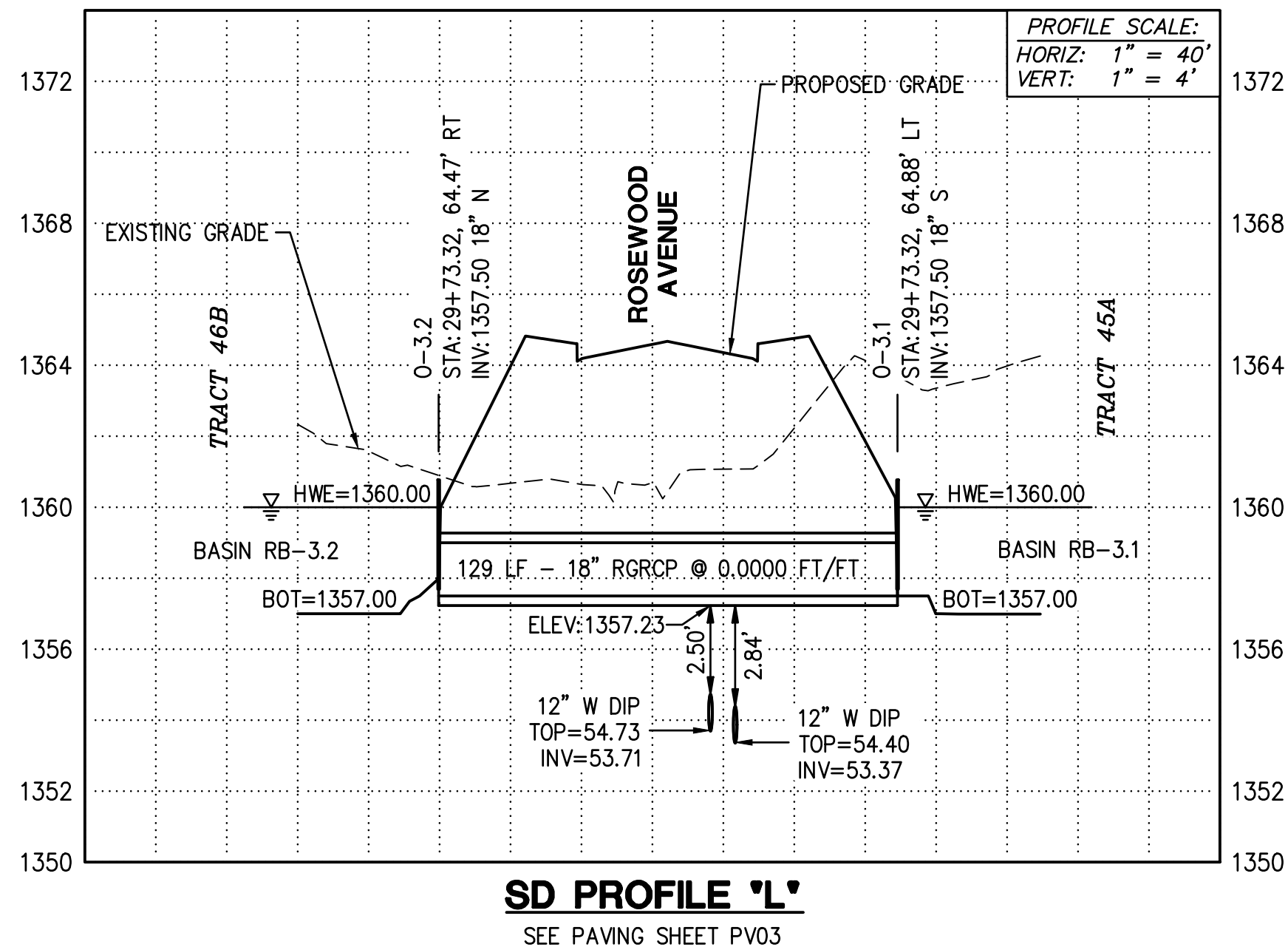
PLAN NAME FLOREC AT TERAVALIS COLLECTORS - PHASE 2 MEDIAN DETAILS		SUBMITTAL: 2ND SUBMITTAL	
ENGINEER INFORMATION HILGARTWILSON			
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: 2ND SUBMITTAL	
AS-BUILT SEAL	DESIGN SEAL 	SUBMITTAL: 2ND SUBMITTAL	
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE	COB TRACKING # ENG-23-0057	
PROJECT NUMBER 1175	SHEET NUMBER SHT. PV11 15 OF 19	COB PERMIT # ENG-21-0288	

Copyright, Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.

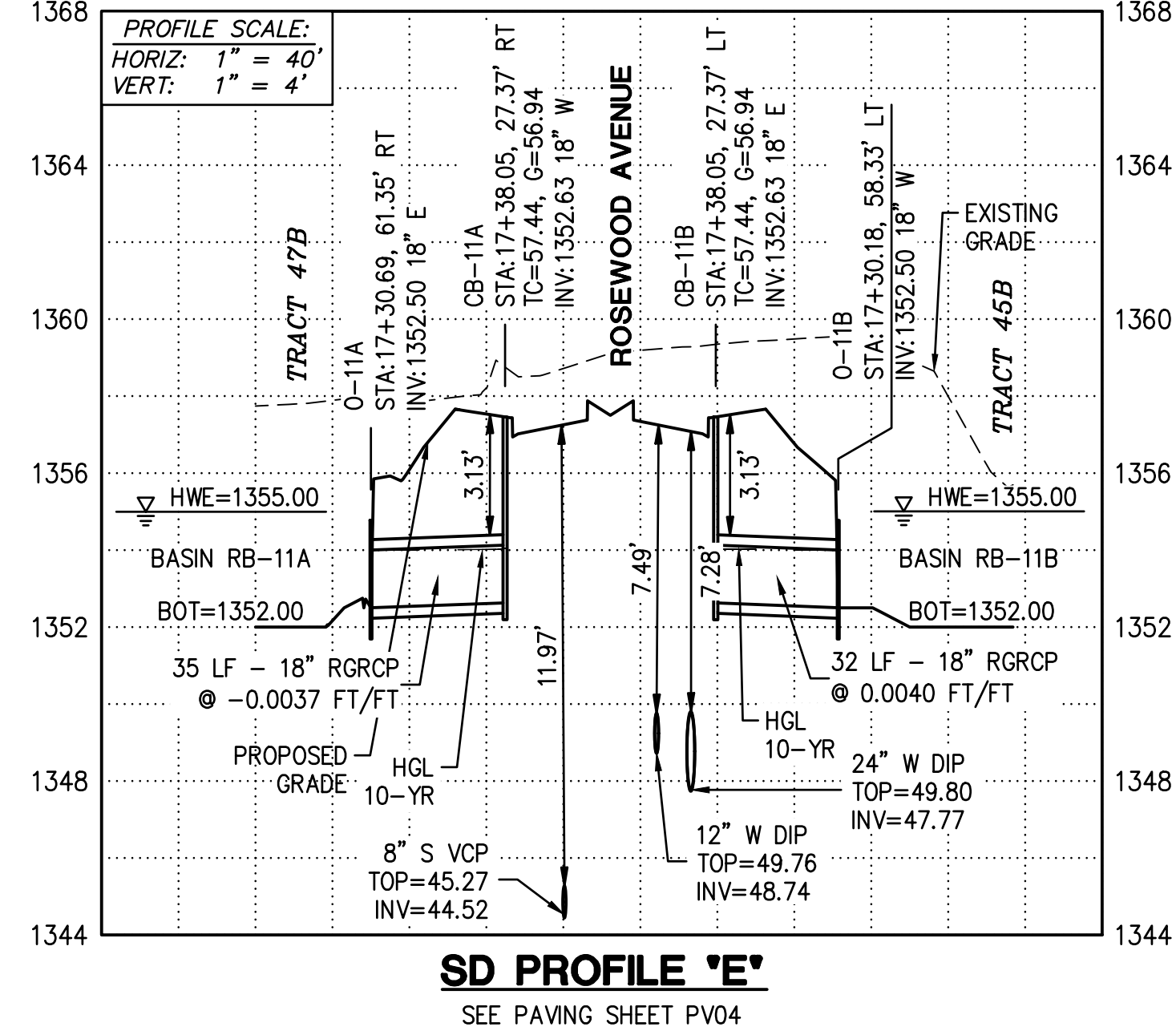
Copyright, HilgartWilson - This plan document set is the sole property of HilgartWilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized HilgartWilson employees.



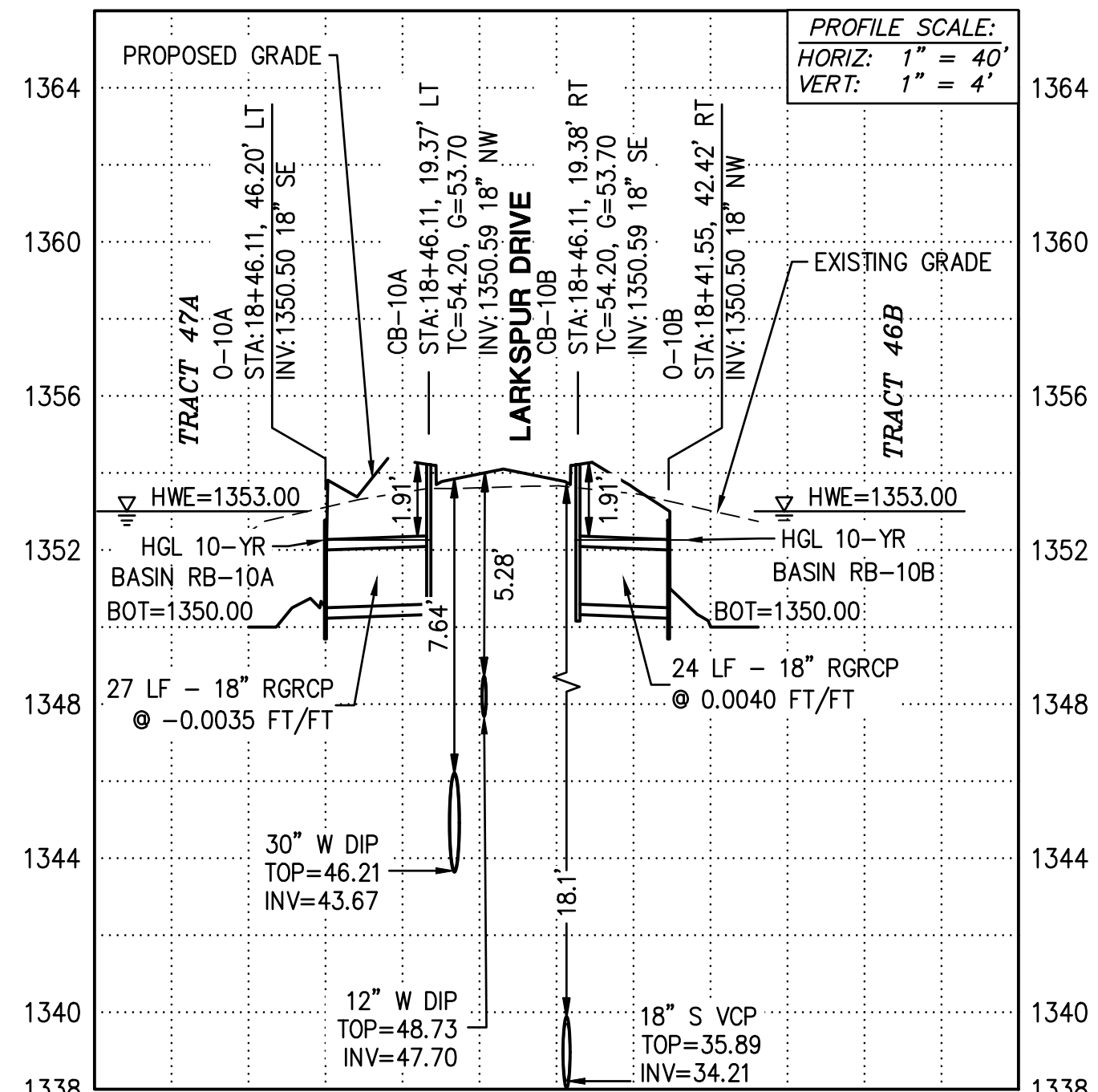
SD PROFILE 'L'
SEE PAVING SHEET PV03



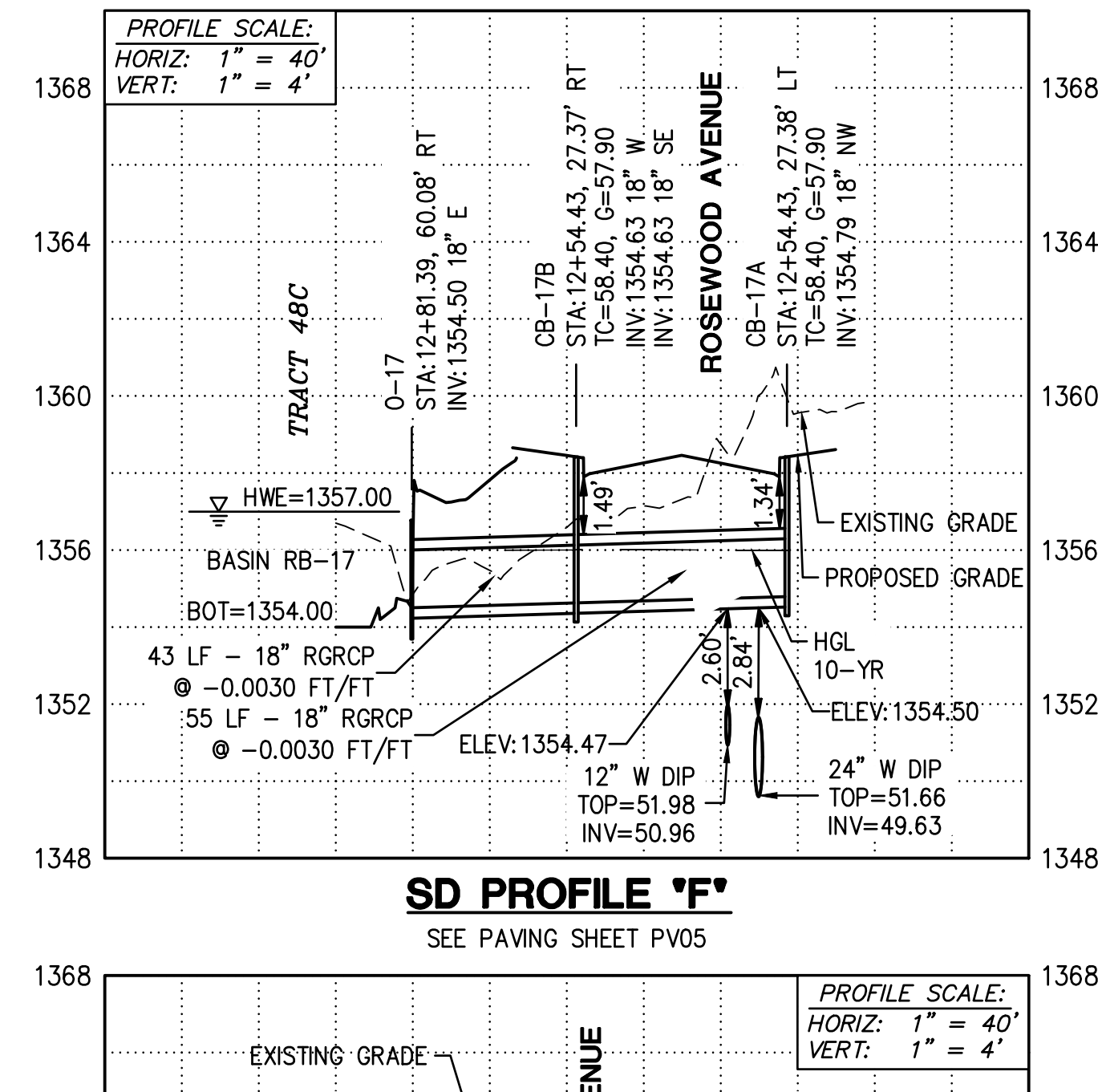
SD PROFILE 'M'
SEE PAVING SHEET PV03



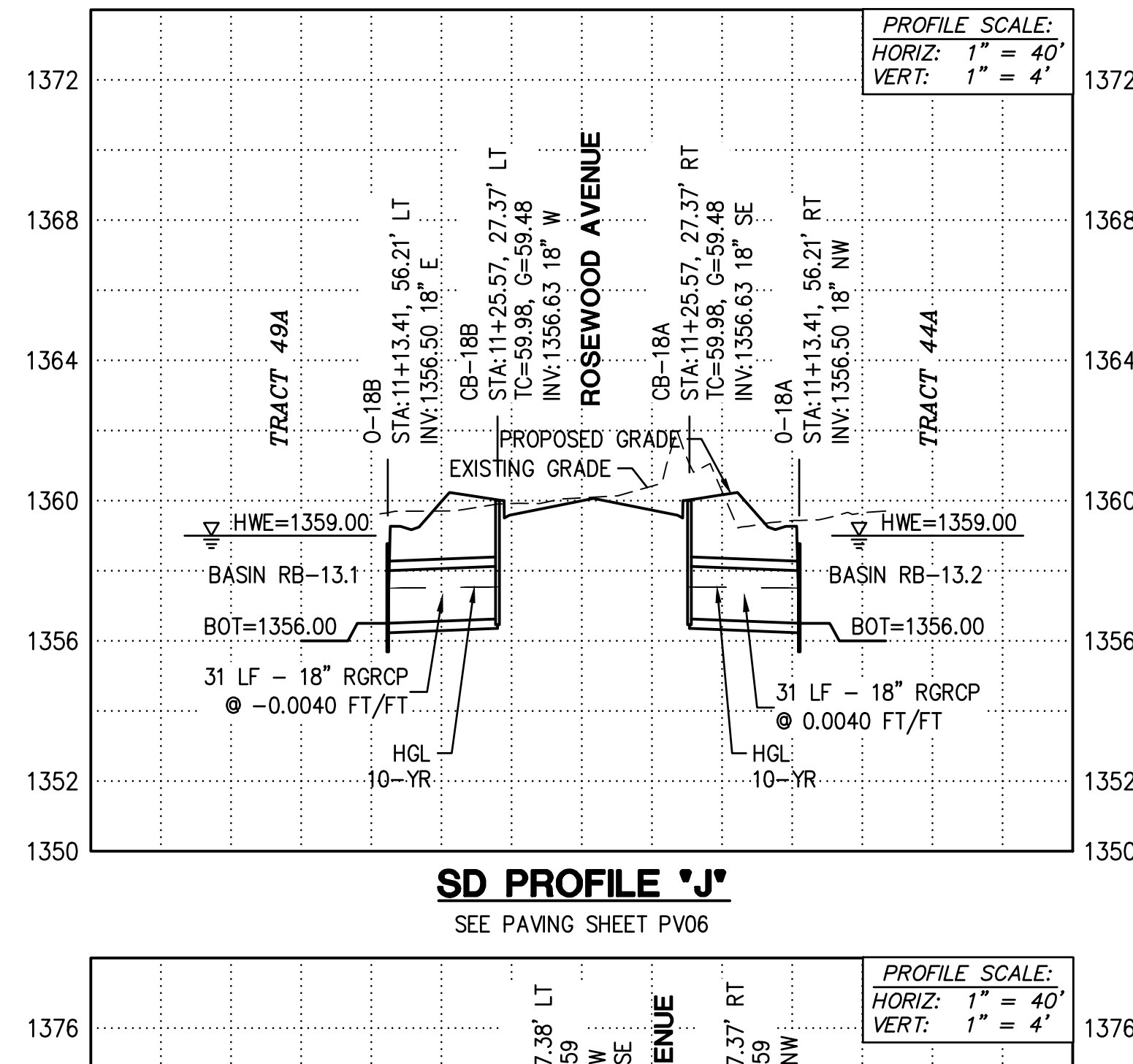
SD PROFILE 'N'
SEE PAVING SHEET PV04



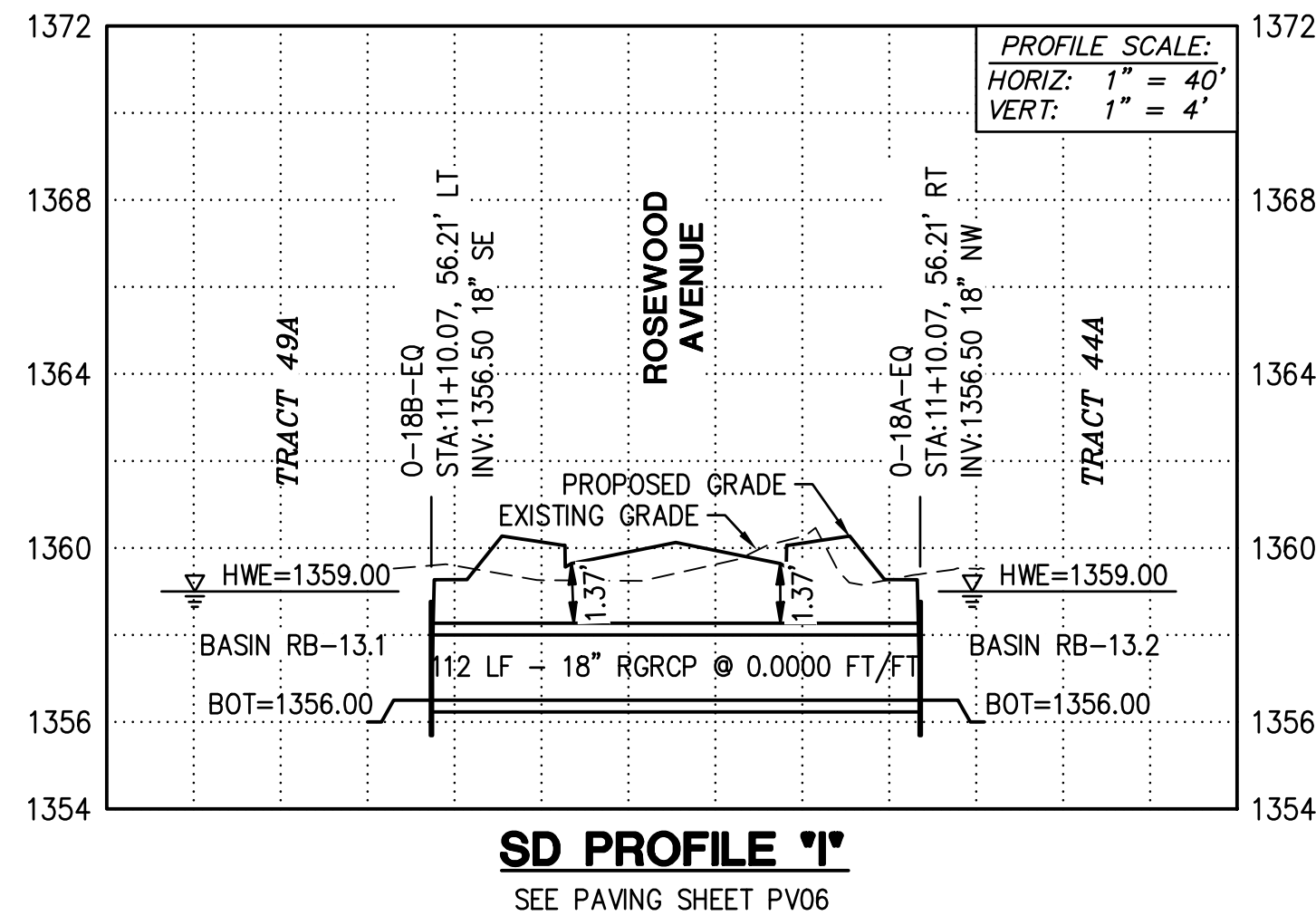
SD PROFILE 'O'
SEE PAVING SHEET PV01



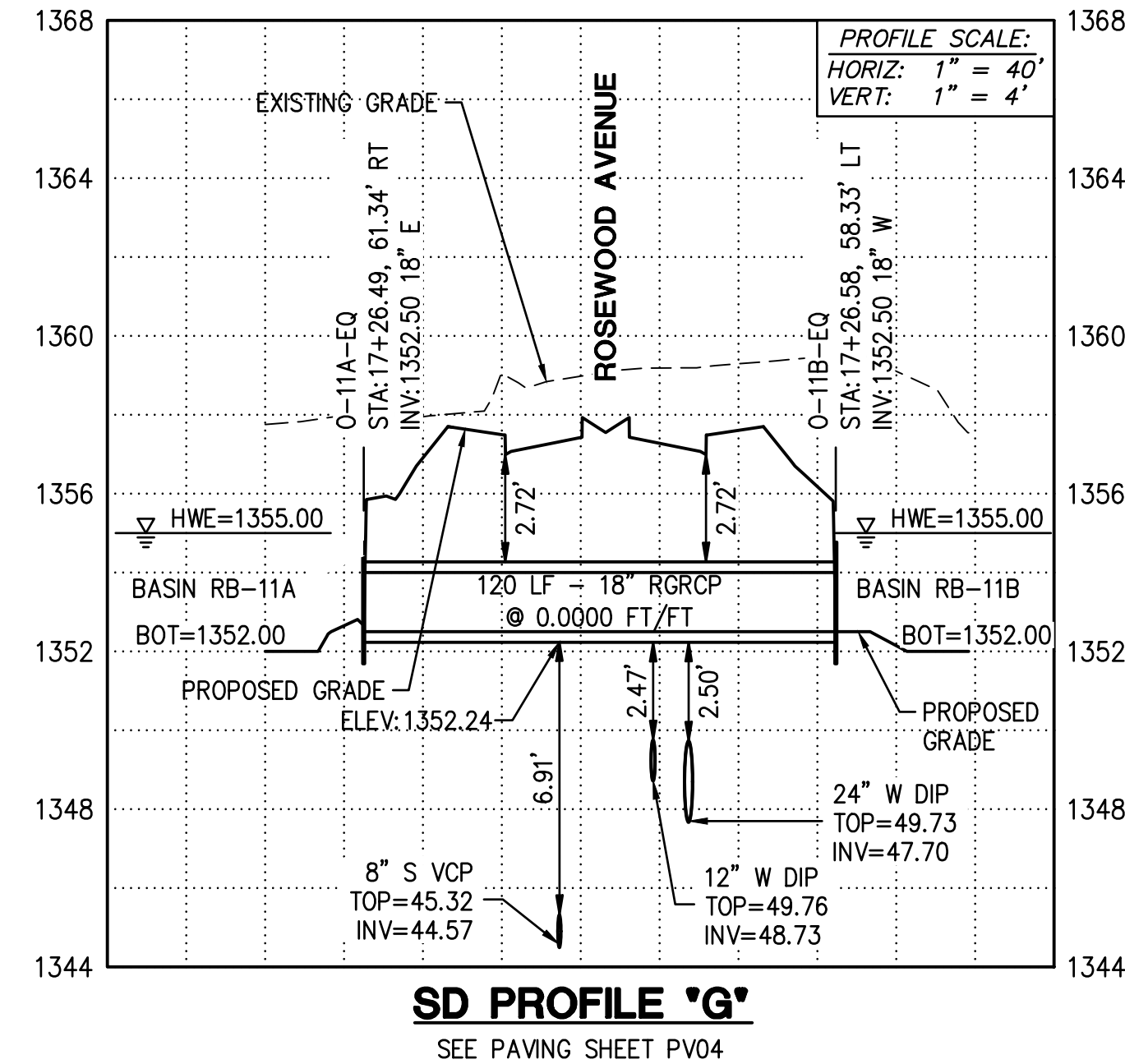
SD PROFILE 'P'
SEE PAVING SHEET PV05



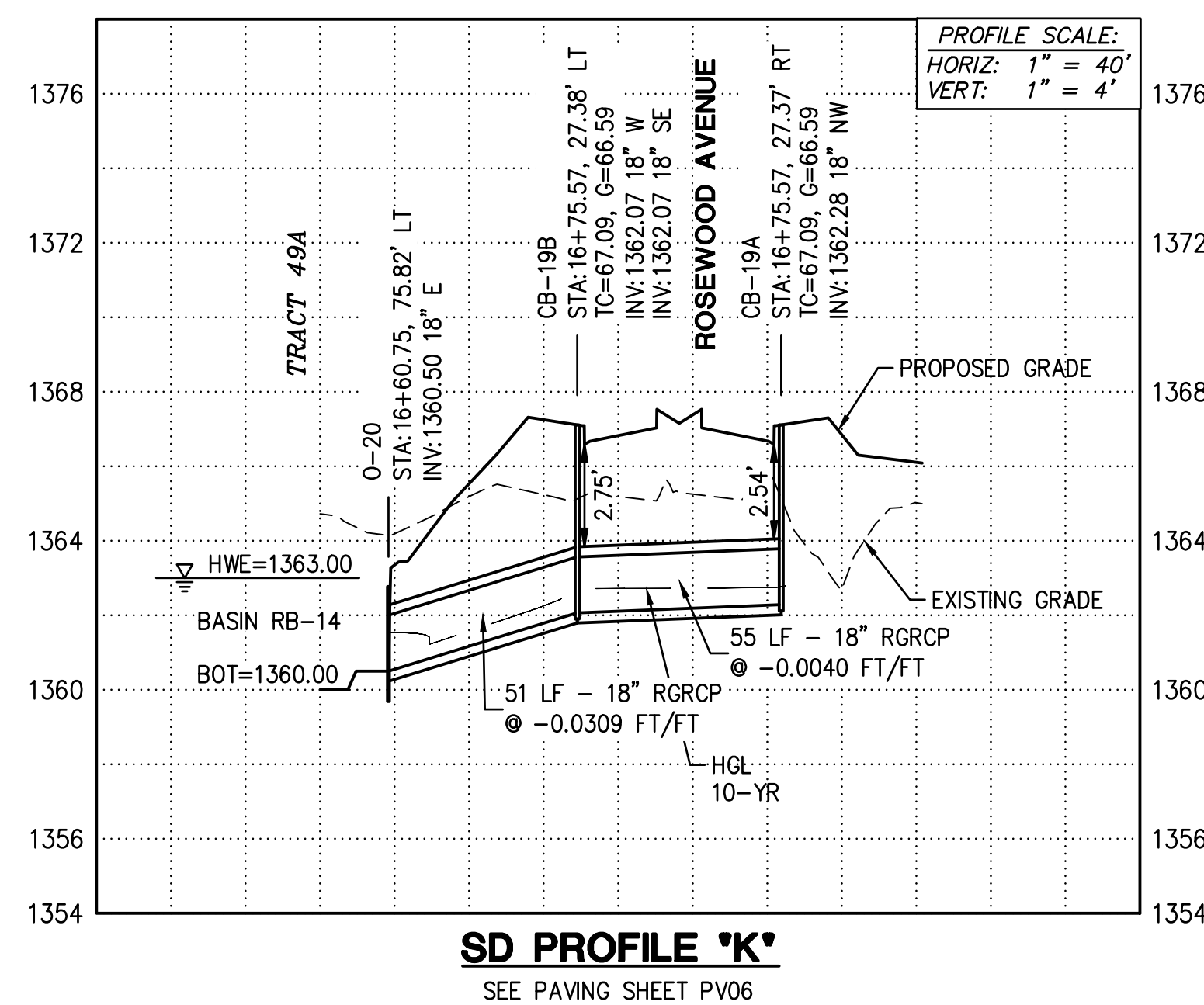
SD PROFILE 'Q'
SEE PAVING SHEET PV06



SD PROFILE 'R'
SEE PAVING SHEET PV06



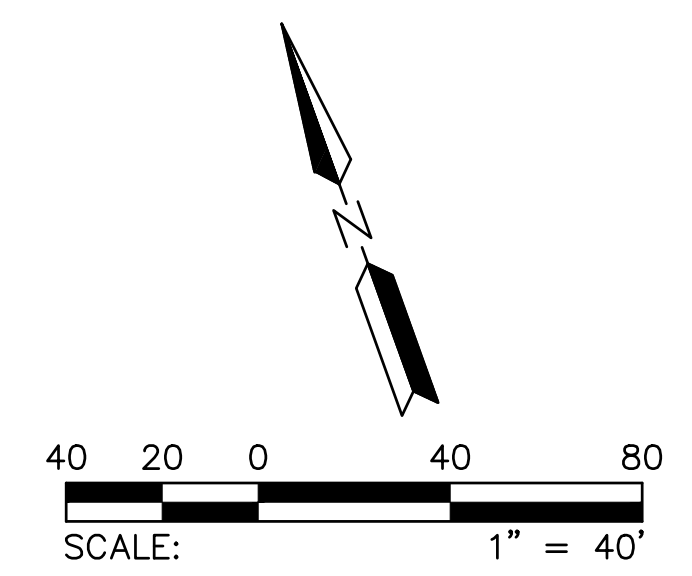
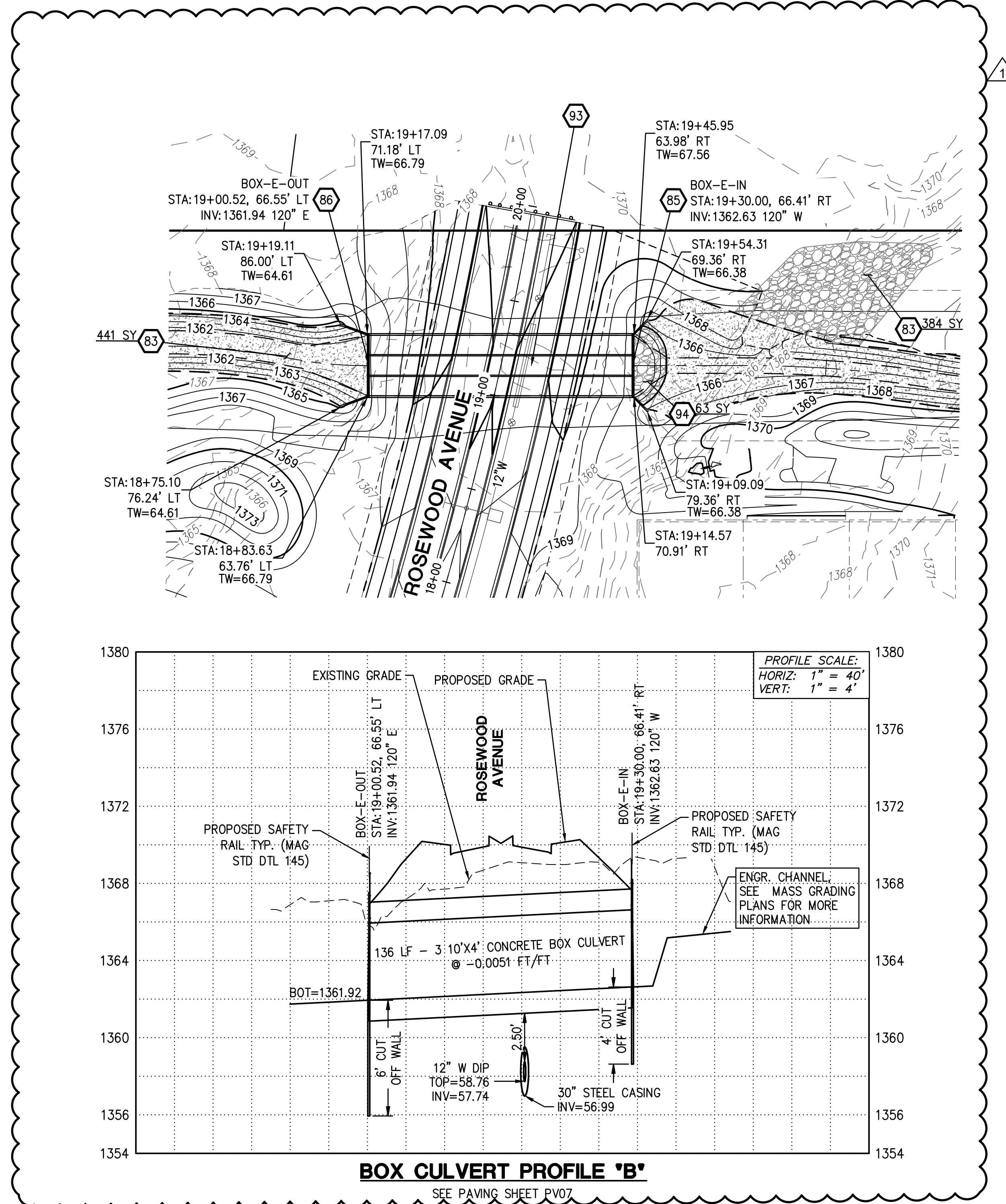
SD PROFILE 'S'
SEE PAVING SHEET PV04



SD PROFILE 'T'
SEE PAVING SHEET PV06

PLAN NAME		SUBMITTAL	
FLORED AT TERAVALIS COLLECTORS - PHASE 2 STORM DRAIN PROFILES		2ND SUBMITTAL	
ENGINEER INFORMATION			
HILGARTWILSON		SUBMITTAL	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	ENG-23-0057	ENG-21-0288
AS-BUILT SEAL	DESIGN SEAL	69427 JOSHUA ROBINSON	2/17/25
ORIGINAL PLAN DATE	LATEST REVISION DATE	COB PLAN TRACKING #	
Feb-23		ENG-23-0057	
PROJECT NUMBER	SHEET NUMBER	COB PERMIT #	
1175	SD01 16 OF 19	ENG-21-0288	

Copyright: Hilgartwilson. This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.

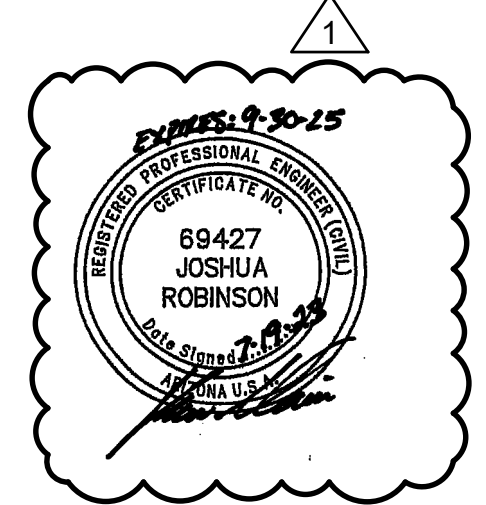


- STORM DRAIN CONSTRUCTION**
- 83 INSTALL ANGULAR LOOSE RIP-RAP PER MAG SPEC SECTION 220 D50=6" 15" THICK ON MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUAL. FABRIC TO HAVE APPARENT OPENING SIZE OF 0.425MM, PERMITTIVITY OF 50 gal/min/ft AND WOVEN. GRADATION PER TABLE 6.4 OF 2013 DRAINAGE DESIGN MANUAL FOR MARICOPA COUNTY, ARIZONA (HYDRAULICS). 825 SY
 - 85 CONSTRUCT INLET WING PER ADOT STD DTL SD 6.08 (6:1 SLOPE ON WING WALLS) SEE DETAIL ON SHEET SD03 & SD04, SAFETY RAIL PER MAG STD DTL 145. 1 EA
 - 86 CONSTRUCT OUTLET WING PER ADOT STD DTL SD 6.08 (6:1 SLOPE ON WING WALLS). SEE DETAIL ON SHEET SD03 & SD04, SAFETY RAIL PER MAG STD DTL 145. 1 EA
 - 93 CONSTRUCT THREE BARREL 10'X 4' BOX CULVERT SEE DETAIL ON SHEETS SD03 & SD04, SPECS AND ADOT STD DTL SD 6.03. 136 LF
 - 94 INSTALL ANGULAR LOOSE RIP-RAP PER MAG SPEC SECTION 220 D50=15" 24" THICK ON MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUAL. FABRIC TO HAVE APPARENT OPENING SIZE OF 0.425MM, PERMITTIVITY OF 50 gal/min/ft AND WOVEN. GRADATION PER TABLE 6.4 OF 2013 DRAINAGE DESIGN MANUAL FOR MARICOPA COUNTY, ARIZONA (HYDRAULICS). 63 SY

1 07/19/2023 - ORIGINAL RIPRAP CHANNEL HAS BEEN REVISED TO A SOIL CEMENT CHANNEL, PROVIDING RESHAPING TO CONTOURS ALONG THE ENTIRE CHANNEL ALIGNMENT.

FLOREO AT TERAVALIS COLLECTORS - PHASE 2 BOX CULVERT-PLAN & PROFILE

<p>HILGARTWILSON</p>		SUBMITTAL: 2ND SUBMITTAL
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	
AS-BUILT SEAL	DESIGN SEAL 	COB PLAN TRACKING # ENG-23-0057 COB PERMIT # ENG-21-0288
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE	
PROJECT NUMBER 1175	SHEET NUMBER SHT. SD02 17 OF 19	



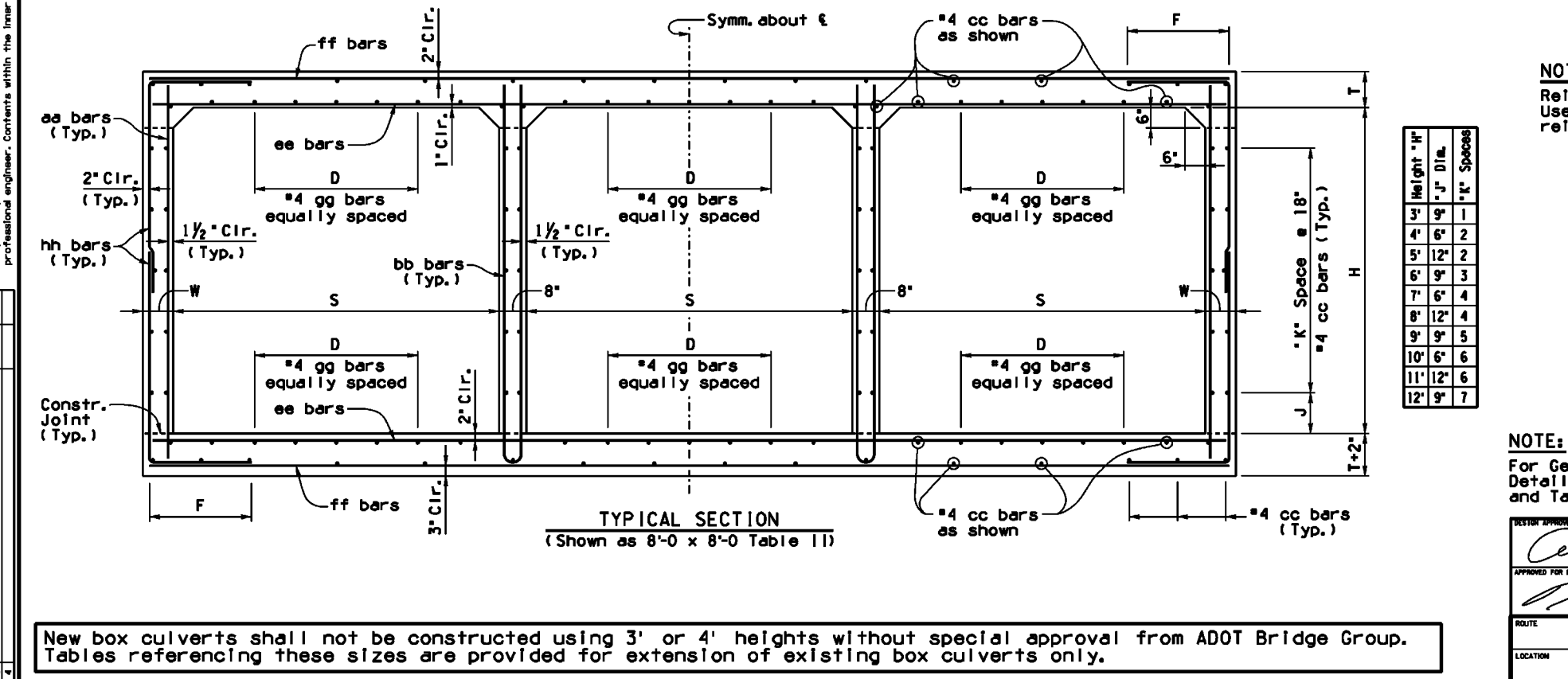
Copyright, Hilgartwilson. This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.

TABLE NO. I
8'-0" FILL

Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Concrete C.T.		Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'				
										Concrete C.T.	Rebar Area										
8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	50'
8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"

TABLE NO. II
10'-0" FILL

Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'
8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	50'
8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"



NOTE:
Reinforcing shown for 8'-0" x 8'-0" Table II box.
Use the appropriate table to determine the reinforcing requirements of selected box.

NOTE:
For General Notes, Dimensions, and additional Details, see SD 6.01 (1 to 4). For Headwall Quantities see SD 6.05 (1 to 3).

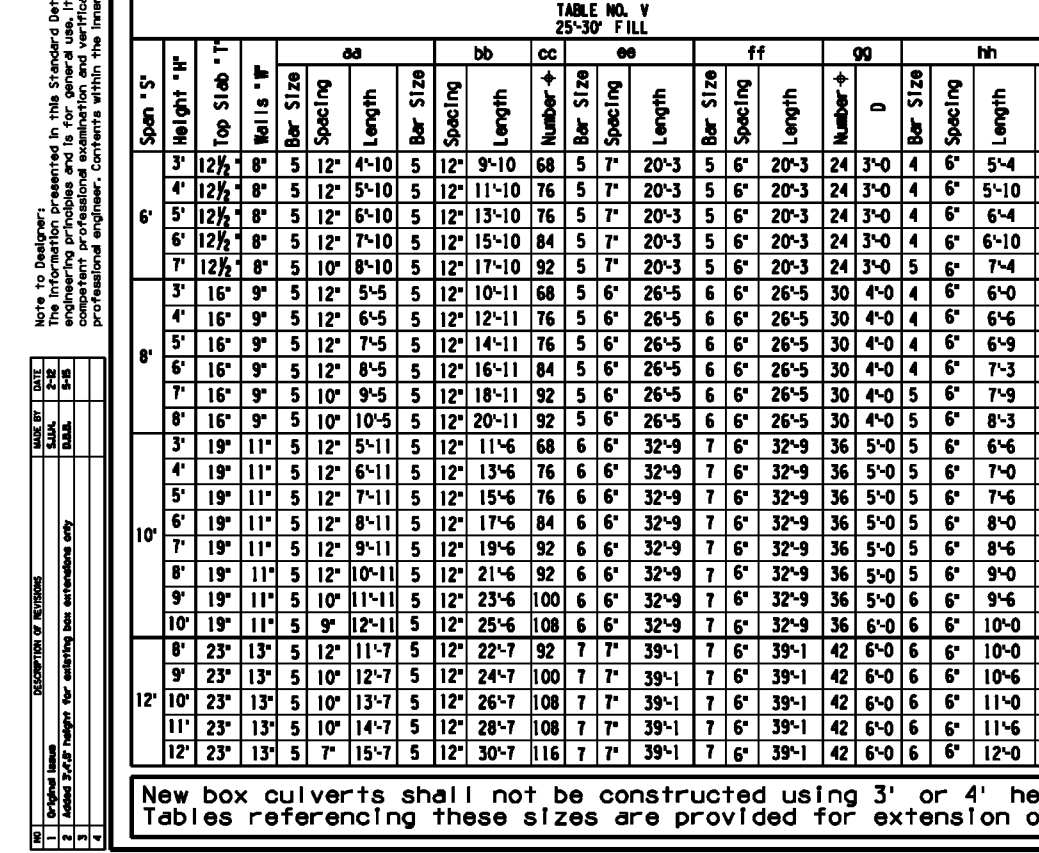
Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'
8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	50'

TABLE NO. III
10'-0" FILL

Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'
8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	50'
8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"

TABLE NO. IV
10'-0" FILL

Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'
8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	50'
8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"

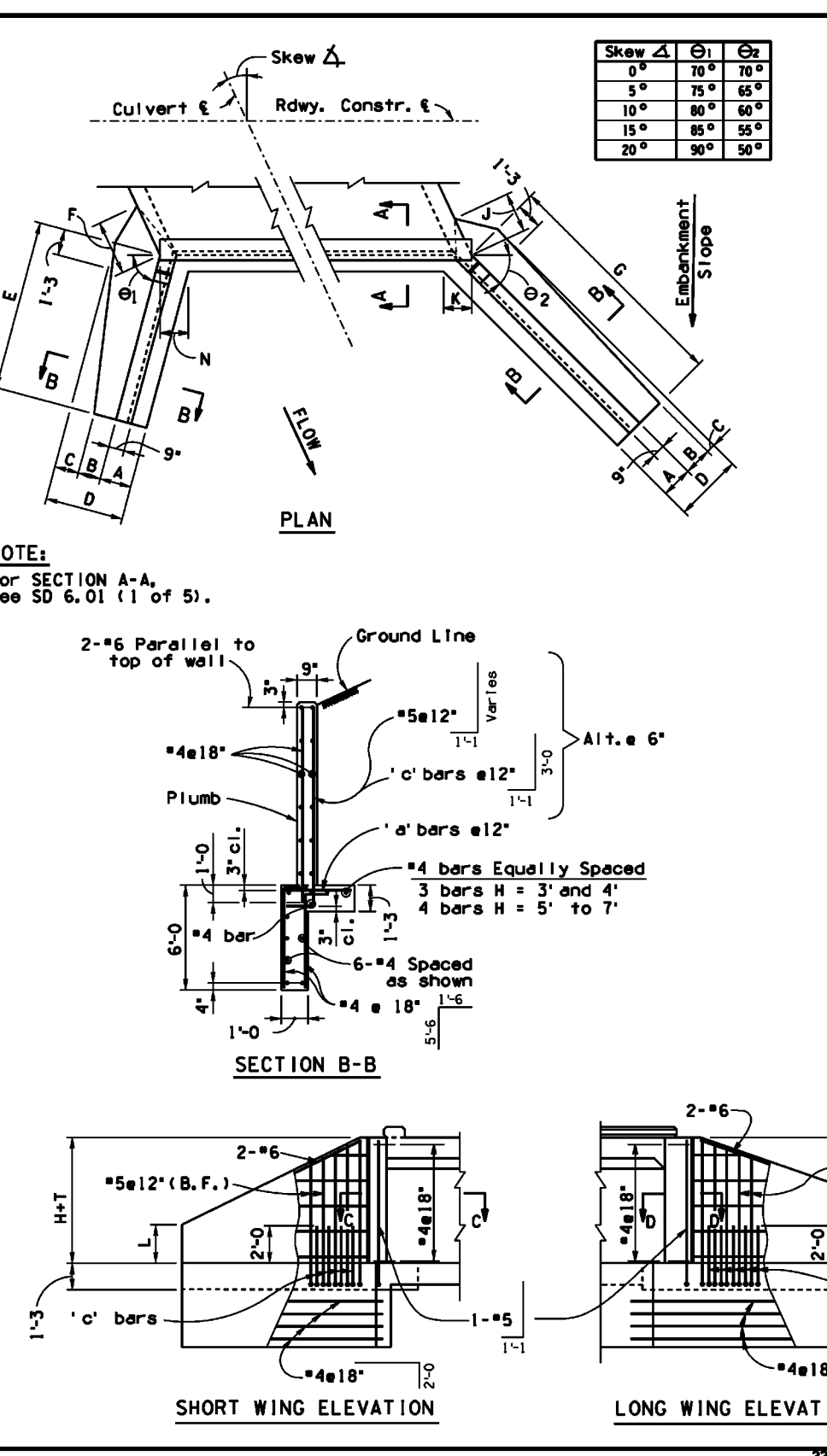


QUANTITIES FOR LINEAR FOOT OF BARREL (TRIPLE BARREL)

Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'
8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	50'

NOTE:
For General Notes, Dimensions, and additional Details, see SD 6.01 (1 to 4). For Typical Section and Details, see SD 6.05 (1 to 2).

Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'
8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	50'

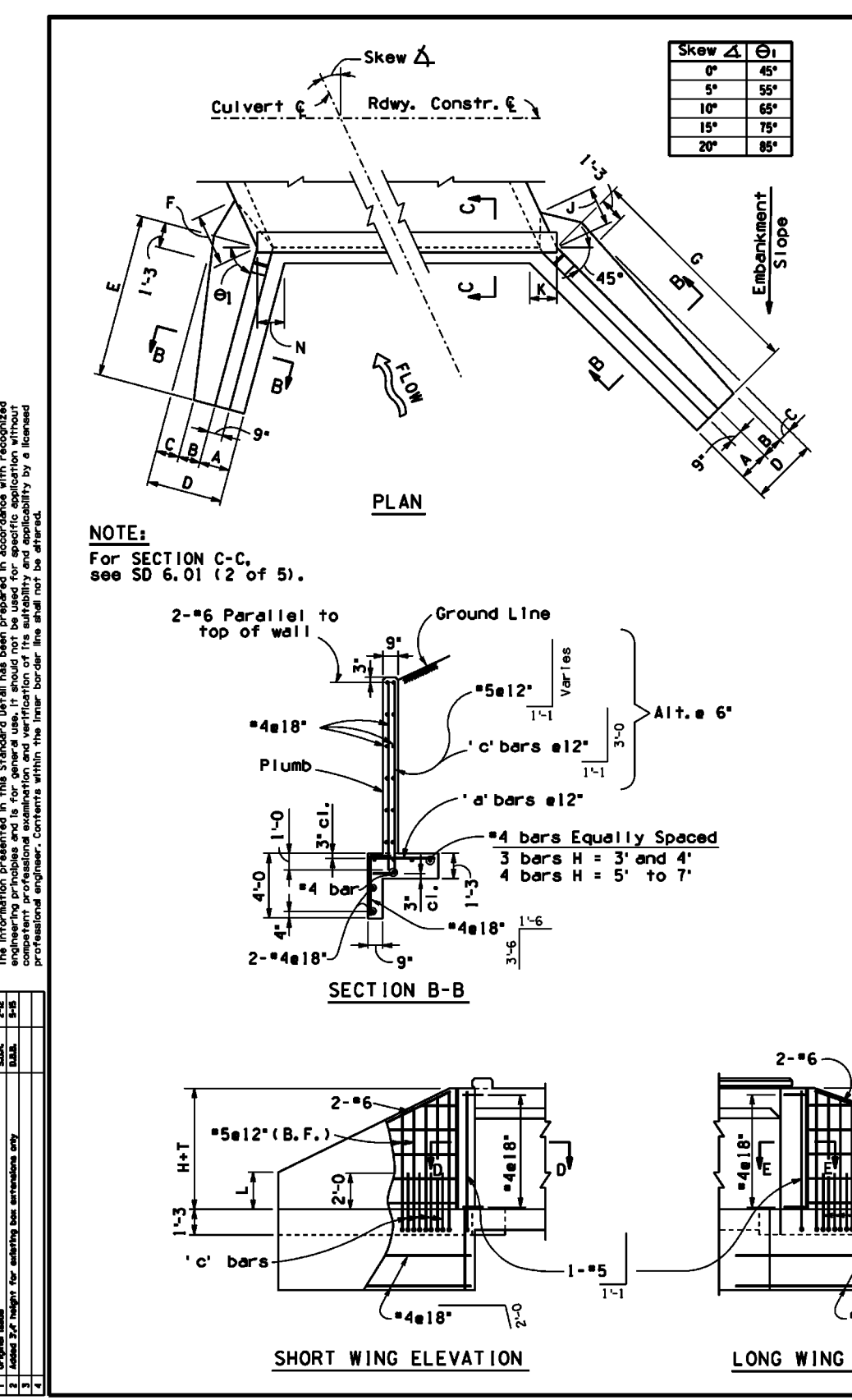


Skew 45° (1)

Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'
8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	50'

Skew 45° (2)

Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'
8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	50'



Skew 45° (3)

Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'
8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	50'

Skew 45° (4)

Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'	Span 's'
8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	50'

AS-BUILT SEAL DESIGN SEAL
HILGARTWILSON
69427 JOSHUA ROBINSON
PROJECT NUMBER 1175 SHEET NUMBER SD03 18 OF 19
DATE: FEB-23
SHEET NUMBER: 1175
SHEET NUMBER: SD03 18 OF 19



2ND SUBMITTAL
ENG-23-0057
ENG-21-0288

Copyright, Hilgartwilson. This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.

NOTE A:
Use 3'-7" #3' spa. top and bott bars for culverts skewed 6° to 30°. Use 3'-6" #3' spa. top and bott bars for culverts skewed 31° to 45°. Culverts skewed over 45° require a special edge beam design. Edge beam reinforcing quantity shall be added to table quantities.

GENERAL NOTES:
Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition.
Design Specifications - AASHTO LRFD Bridge Design Specifications, 7th Edition 2014.
Loading Class - HL-93.
Design:
Soil weight = 120 p.c.f.
All Concrete shall be Class "S" (f'c = 3000 psi).
Reinforcing steel shall conform to ASTM Specification A615. All reinforcing shall be furnished as Grade 60.
All bends and hooks shall meet the requirements of AASHTO LRFD Article 5.10. All bend dimensions for reinforcing steel shall be out-to-out of bars. All placement dimensions for reinforcing steel shall be to center of bars unless noted otherwise.
All reinforcing steel shall have 2" clear cover unless noted otherwise.
Chamfer all exposed corners 1/4" unless noted otherwise.
Compact backfill for footing and wing base minimum 100 percent of ASTM D698 maximum dry density.
All structures shall have formed construction joints in the top slab and walls (optional in floor slab) and spaced not more than 38'-6" apart or as shown in Project Plans. Joints shall be perpendicular to the centerline of the box. Reinforcing steel shall project 1/8" thru the joint. The joint shall be made with a 1/4" plywood bulkhead which shall be left in place or alternate joint detail shown on Dwg. (2 of 5) may be used.
See Project Plans for culvert layout, invert elevations, finished grade elevations, headwall, apron, and other site specific details.
Dimensions shall not be scaled from drawings.
Pay item quantities of concrete and reinforcing steel include all labor and materials for box culvert, footing, headwalls, and aprons.
Total Quantities include Barrel and Headwall Quantities shown in Tables (plus added quantity for apron when used). Barrel Quantities Table is per linear foot of box (multiply by length of box to obtain barrel total). Headwall Quantities Table includes wings, edge beam, and cutoff wall.
Culverts measuring 20 ft and greater to the inside faces of exterior walls, along the roadway centerline, shall be assigned a structure number. The structure number shall be referenced in the culvert summary sheet and drainage details.

NOTE:
For Dimensions, Quantities and additional Details, see SD 6.01 (2 of 5).

TABLE NO. TO BE USED FOR VARIOUS FILL HEIGHTS

Table No.	Fill Height
V	0' to 1'
VI	1' to 2'
VII	2' to 3'
VIII	3' to 4'
IX	4' to 5'
X	5' to 6'
XI	6' to 7'
XII	7' to 8'
XIII	8' to 9'
XIV	9' to 10'
XV	10' to 11'
XVI	11' to 12'
XVII	12' to 13'
XVIII	13' to 14'
XIX	14' to 15'
XX	15' to 16'
XXI	16' to 17'
XXII	17' to 18'
XXIII	18' to 19'
XXIV	19' to 20'
XXV	20' to 21'
XXVI	21' to 22'
XXVII	22' to 23'
XXVIII	23' to 24'
XXIX	24' to 25'
XXX	25' to 26'
XXXI	26' to 27'
XXXII	27' to 28'
XXXIII	28' to 29'
XXXIV	29' to 30'
XXXV	30' to 31'
XXXVI	31' to 32'
XXXVII	32' to 33'
XXXVIII	33' to 34'
XXXIX	34' to 35'
XL	35' to 36'
XL I	36' to 37'
XL II	37' to 38'
XL III	38' to 39'
XL IV	39' to 40'
XL V	40' to 41'
XL VI	41' to 42'
XL VII	42' to 43'
XL VIII	43' to 44'
XL IX	44' to 45'
XL X	45' to 46'
XL XI	46' to 47'
XL XII	47' to 48'
XL XIII	48' to 49'
XL XIV	49' to 50'
XL XV	50' to 51'
XL XVI	51' to 52'
XL XVII	52' to 53'
XL XVIII	53' to 54'
XL XIX	54' to 55'
XL XX	55' to 56'
XL XXI	56' to 57'
XL XXII	57' to 58'
XL XXIII	58' to 59'
XL XXIV	59' to 60'
XL XXV	60' to 61'
XL XXVI	61' to 62'
XL XXVII	62' to 63'
XL XXVIII	63' to 64'
XL XXIX	64' to 65'
XL XXX	65' to 66'
XL XXXI	66' to 67'
XL XXXII	67' to 68'
XL XXXIII	68' to 69'
XL XXXIV	69' to 70'
XL XXXV	70' to 71'
XL XXXVI	71' to 72'
XL XXXVII	72' to 73'
XL XXXVIII	73' to 74'
XL XXXIX	74' to 75'
XL XL	75' to 76'
XL XL I	76' to 77'
XL XL II	77' to 78'
XL XL III	78' to 79'
XL XL IV	79' to 80'
XL XL V	80' to 81'
XL XL VI	81' to 82'
XL XL VII	82' to 83'
XL XL VIII	83' to 84'
XL XL IX	84' to 85'
XL XL X	85' to 86'
XL XL XI	86' to 87'
XL XL XII	87' to 88'
XL XL XIII	88' to 89'
XL XL XIV	89' to 90'
XL XL XV	90' to 91'
XL XL XVI	91' to 92'
XL XL XVII	92' to 93'
XL XL XVIII	93' to 94'
XL XL XIX	94' to 95'
XL XL XX	95' to 96'
XL XL XXI	96' to 97'
XL XL XXII	97' to 98'
XL XL XXIII	98' to 99'
XL XL XXIV	99' to 100'

REINFORCED CONCRETE BOX CULVERTS MISCELLANEOUS DETAILS

PROJECT NO. SD 6.01 (2 of 5)
SHEET NO. 0F

NOTE A:
Use 3'-7" #3' spa. top and bott bars for culverts skewed 6° to 30°. Use 3'-6" #3' spa. top and bott bars for culverts skewed 31° to 45°. Culverts skewed over 45° require a special edge beam design. Edge beam reinforcing quantity shall be added to table quantities.

NOTE:
For 'e' Bars table, see Dwg. (1 of 5)

NOTE:
Extend all overlapping transverse bars to far side of adjacent wall as shown (top and bottom slab).

NOTE:
Long bars not shown in this barrel for clarity. Bend long bars as required for angle change in culvert.

NOTE:
For General Notes, Dimensions, Quantities and additional Details, see SD 6.01 (1 & 3, 4, 5).

REINFORCED CONCRETE BOX CULVERTS MISCELLANEOUS DETAILS

PROJECT NO. SD 6.01 (2 of 5)
SHEET NO. 0F

STRUCTURAL EXCAVATION - PAYMENT LIMITS

NOTE:
Payment limits shown include structural excavation for headwalls, cutoffwalls, wingwalls, and sections, etc.

STRUCTURE BACKFILL - MEASUREMENT

NOTE:
Computation of structure backfill quantities is based on the area of a typical installation times the total length of structure plus 2C. Use C for box extensions on each end extended. No measurement is necessary for wing arms.

STRUCTURE BACKFILL - PLACEMENT

LEGEND
A = Width
B = Length
C = Height of barrel or headwall without cutoff wall.
● = 6" Max. in rock and trench, 1'-6" max. all others
○ = 6" Min. in rock and trench, 1'-6" min. all others
▨ Indicates Structural Excavation
▩ Indicates Structure Backfill
▧ Indicates Roadway Embankment

NOTE:
For General Notes, Dimensions, Quantities and additional Details, see SD 6.01 (1, 2, 3 & 5).

REINFORCED CONCRETE BOX CULVERTS STRUCTURAL EXCAVATION & STRUCTURE BACKFILL

PROJECT NO. SD 6.01 (4 of 5)
SHEET NO. 0F

PLAN NAME
FLOEO AT TERAVALIS COLLECTORS - PHASE 2

ENGINEER INFORMATION
HILGARTWILSON

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL

69427 JOSHUA ROBINSON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12-31-2025

ORIGINAL PLAN DATE: Feb-23
LATEST REVISION DATE: [Blank]

PROJECT NUMBER: 1175
SHEET NUMBER: SD04 19 OF 19

COB TRACKING # ENG-23-0057
SUBMITTAL: 2ND SUBMITTAL
COB PERMIT # ENG-21-0288

