

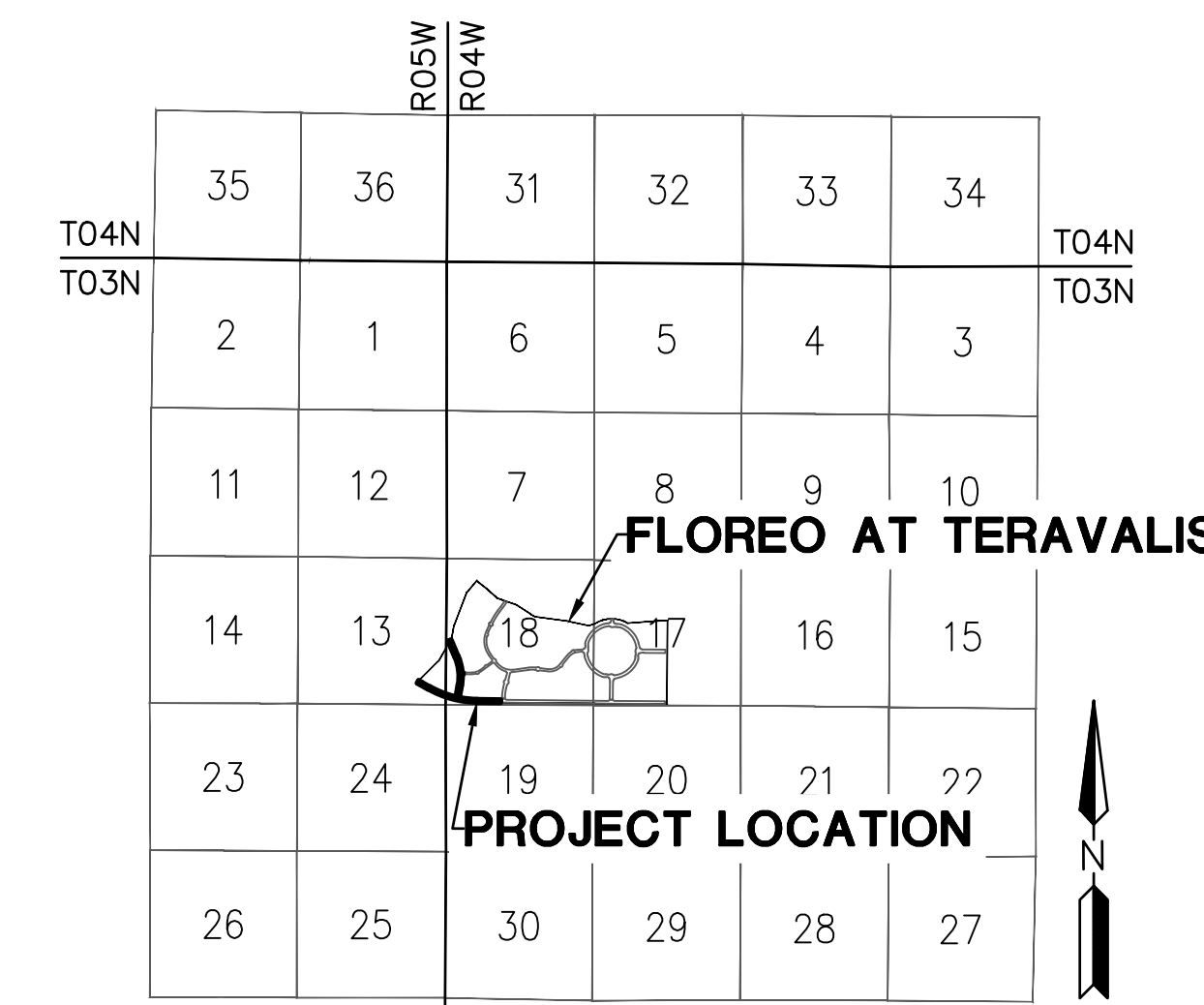
FLOREO AT TERAVALIS

JOHNSON ROAD & TERAVALIS PARKWAY

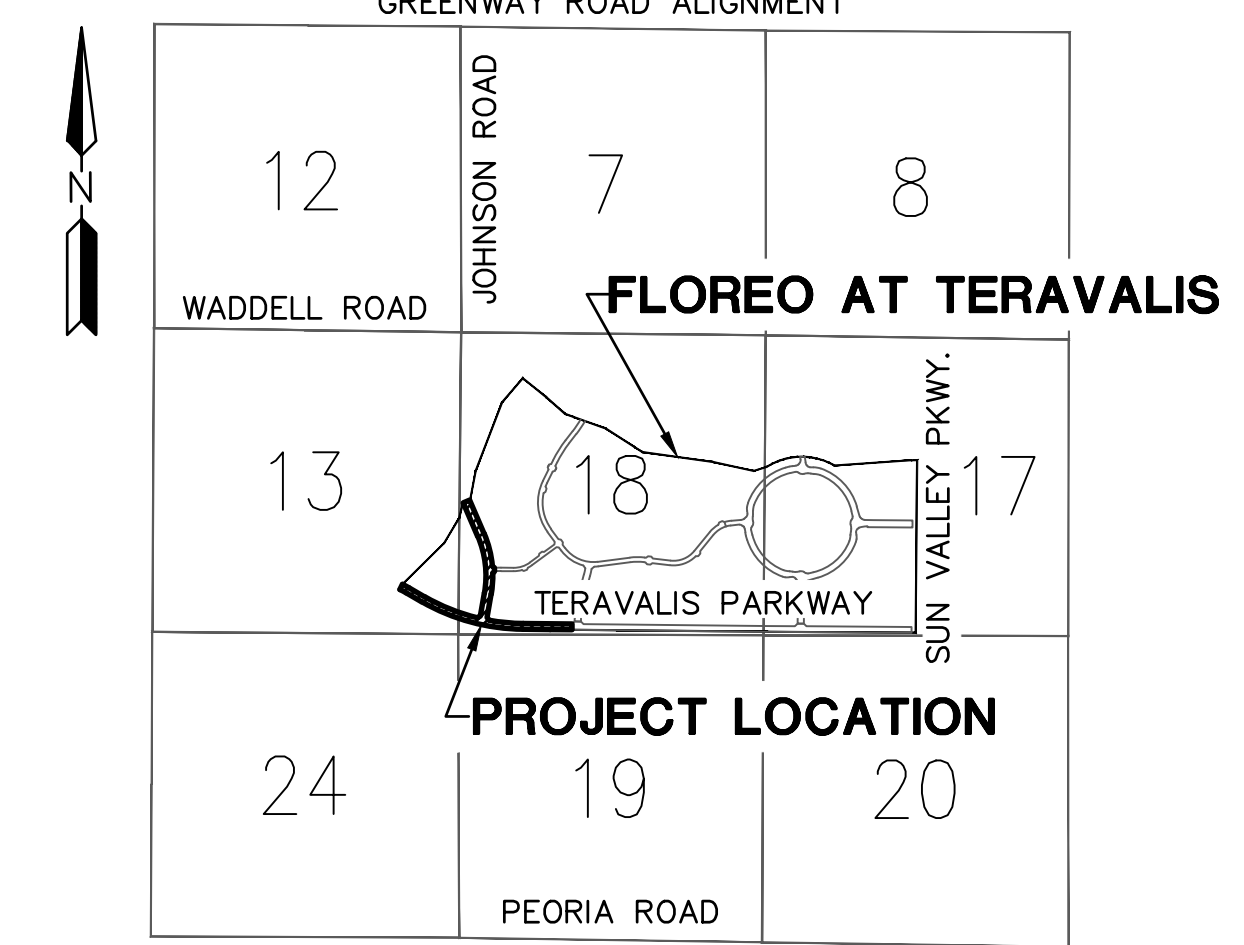
PAVING PLAN PHASE 2

BUCKEYE, ARIZONA

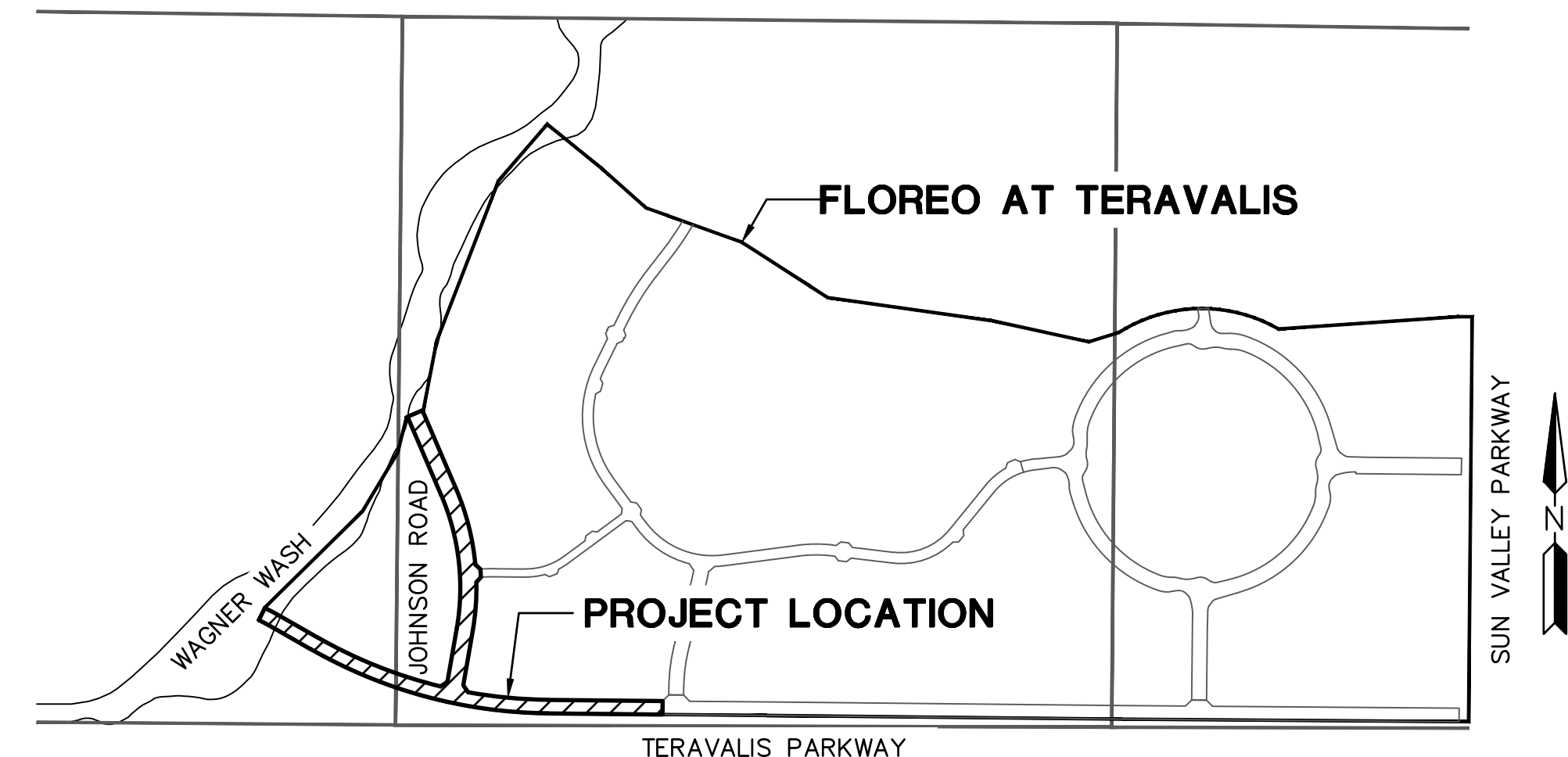
A PORTION OF LAND BEING SITUATED WITHIN THE EAST HALF OF SECTION 13, TOWNSHIP 3 NORTH, RANGE 5 WEST, AND ALL OF SECTION 18, TOWNSHIP 3 NORTH, RANGE 4 WEST AND THE WEST HALF OF SECTION 17 OF TOWNSHIP 3 NORTH, RANGE 4 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA



VICINITY MAP
NTS



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.

NO.	DESCRIPTION	QUANTITY	UNIT
2	INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'.	4	EA
3	INSTALL PAVEMENT 6" AC (2" OF A12.5MM ARTERIAL SUPERPAVE ON 4" OF A19.0MM ARTERIAL SUPERPAVE) OVER 12" ABC. SEE TYPICAL SECTION ON SHEET DT03.	11720	SY
5	INSTALL PAVEMENT 3" OF R12.5MM RESIDENTIAL MIX AC OVER 8" ABC. SEE TYPICAL STREET SECTION ON SHEET DT03.	186	SY
6	INSTALL 12" ABC. SEE TYPICAL SECTION ON SHEET DT03.	2305	SY
9	CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A.	2196	LF
12	CONSTRUCT 6" SIDEWALK; MAG STD DTL 230.	17463	SF
17	CONSTRUCT 6" CONCRETE VALLEY GUTTER & APRON; MAG STD DTL 240 WITH FIBER MESH.	1226	SF
19	ADJUST WATER VALVE ADJUSTMENT PER MAG DTL 391-2.	44	EA
20	ADJUST MANHOLE FRAME & COVER PER MAG STD DTL 422 AND COB DTL 41260.	9	EA
21	INSTALL FIRE HYDRANT PAVEMENT MARKER; PER COB DTL 31440.	2	EA
25	INSTALL BARRICADE; MAG STD DTL 130-B.	83	LF
27	CONSTRUCT 6" VERTICAL CURB & GUTTER; MAG STD DTL 220-1-A, WITH DEPRESSED LIP.	13	LF
29	CONSTRUCT TYPICAL CURB TERMINATION PER MAG STD DTL 222.	1	EA
30	INSTALL THICKENED EDGE OF PAVEMENT PER MAG STD DTL 201 TYPE "A", D=18".	2403	LF
38	INSTALL STREET SIGN POST; PER COB DTL 65120.	11	EA
41	INSTALL 6" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS.	550	LF
61	CONSTRUCT DUAL SIDEWALK CURB RAMP; PER MAG STD DTL 237-1.	2	EA
62	CONSTRUCT DIRECTIONAL SIDEWALK RAMPS PER COB STD DTL 63240. MODIFIED WITH SINGLE RAMP.	3	EA
63	INSTALL 8" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS.	67	LF
64	CONSTRUCT 6" MOUNTABLE CURB & GUTTER, PER MAG STD DTL 220-2, TYPE E.	105	LF
65	CONSTRUCT 2" CURB TRANSITION TYPE "E" TO TYPE "A" PER MAG STD DTL 220-2.	6	EA
66	INSTALL CONCRETE PAVEMENT, CLASS A, 9" THICK FOR ACCESS RAMP LANDING.	540	LF

67	INSTALL BARRICADE; MAG STD DTL 130-A.	27	LF
68	CONSTRUCT 9" THICK CLASS 'A' CONCRETE ON MAINTENANCE ACCESS RAMP.	120	SF
69	INSTALL 6" DIA. COLLAPSIBLE LOCKING BOLLARD PER DETAIL ON DT04. 42" HEIGHT.	4	EA
70	CONSTRUCT 20' WIDE, 9" THICK CLASS 'A' CONCRETE ACCESS RAMP. SLOPE OF RAMP TO BE 10:1 MAX.	404	SY
71	INSTALL 20' WIDE ALL-WEATHER ACCESS ROAD, 6" THICK STABILIZED D.G. SLOPE OF RAMP TO BE 10:1 MAX.	204	SY
STORM DRAIN CONSTRUCTION NOTES			
12	INSTALL 18" RGRCP STORM DRAIN, CLASS V	41	LF
13	INSTALL 18" RGRCP STORM DRAIN, CLASS IV	146	LF
15	INSTALL 24" RGRCP STORM DRAIN, CLASS IV	318	LF
24	CONSTRUCT CATCH BASIN PER COB DTL B-510A & B510B; SIZE PER PLAN	3	EA
51	CONSTRUCT CONCRETE OUTLET HEADWALL PER COB STD DTLS 51200 WITH TRASH RACK PER COB STD DTL B-508 AND HANDRAIL PER COB STD B-110	2	EA
71	PLACE LOOSE RIP-RAP D50=6", THICKNESS 24" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP-RAP DETAIL ON DT04.	187	SY
77	PLACE LOOSE RIP-RAP D50=6", THICKNESS 12" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP-RAP DETAIL ON DT03.	36	SY
82	CONSTRUCT CONCRETE OUTLET HEADWALL PER COB STD DTLS 51200 WITH TRASH RACK PER COB STD DTL B-508 AND HANDRAIL PER COB STD B-110	2	EA
83	CONSTRUCT CATCH BASIN PER MAG STD DTL 537 TYPE 'G', DOUBLE GRATE.	1	EA
84	CONSTRUCT CONCRETE HEADWALL WITH GROUTED RIP-RAP PER STORM DRAIN TIE-IN PER DETAIL ON SHEET DT01.	1	EA
85	INSTALL CONTECH WATER QUALITY SYSTEM. SEE PLAN FOR DETAIL LETTER AND DETAILS ON SHEET DT04 FOR MORE INFORMATION.	1	EA
86	CONSTRUCT 5 BARREL 10' X 4' BOX CULVERT SEE DETAILS ON SHEETS DT05 & DT06 SPECS & ADOT STD. DTL. SD 6.05.	309	LF
87	CONSTRUCT INLET WING PER ADOT STD DTL SD 6.08, (6:1 SLOPE ON WING WALLS) SEE DETAILS ON SHEETS DT05 & DT06, SAFETY RAIL PER MAG STD. DTL. 145.	1	EA
88	CONSTRUCT OUTLET WING PER ADOT STD DTL SD 6.08, (6:1 SLOPE ON WING WALLS) SEE DETAILS ON SHEET DT05 & DT06, SAFETY RAIL PER MAG STD. DTL. 145.	1	EA

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

BENCHMARK

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

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

BY: BY LETTER _____ NOVEMBER 10, 2022
WESTERN AREA POWER ADMINISTRATION (WAPA) DATE

BY: BY LETTER _____ NOVEMBER 10, 2022
CENTRAL ARIZONA PROJECT - CAWSD# 2022-156 DATE

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 _____

- 90 INSTALL SOIL CEMENT PER STORM DRAIN TIE-IN DETAIL SHOWN ON DT01 30 SY
- 91 PLACE LOOSE RIP-RAP D50=4", THICKNESS 8" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. 8 SY
- 92 INSTALL TEMPORARY PIPE PLUG, SIZE AS NOTED. 2 EA
- 96 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, COLOR - PALOMINO GOLD. SPECIFIC WEIGHT = 165 lb/ft³. GRADATION PER TABLE 6.4 OF 2013 DRAINAGE DESIGN MANUAL FOR MARICOPA COUNTY, ARIZONA (HYDRAULICS). 486 SY

FEMA FLOOD ZONE DESIGNATION

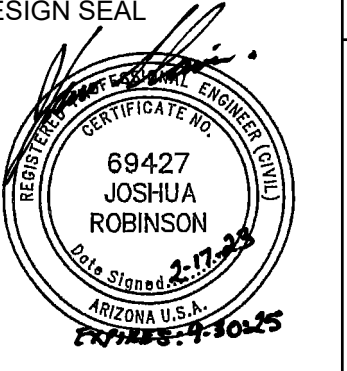
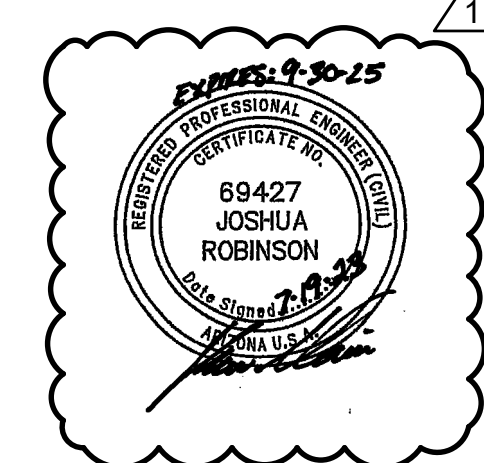
COMMUNITY NUMBER	PANEL #	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE
040039	1605	L	10/16/2013	AE, A, X

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

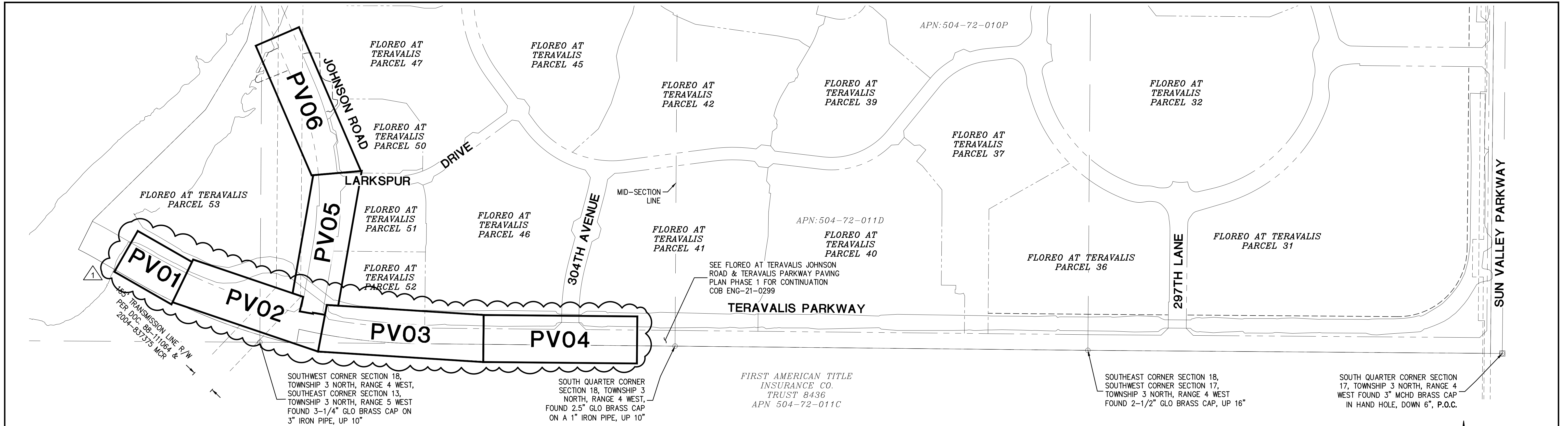
SHT 1	CV01	PAVING COVER SHEET
SHT 2	DT01	KEY MAP & LEGEND
SHT 3-7	DT02-06	PAVING NOTES & DETAILS
SHT 8-12	PV01-05	PAVING PLAN & PROFILE SHEETS
SHT 13	SD01	STORM DRAIN PROFILES



MANAGING ENGINEER / SURVEYOR	PROJECT COORDINATOR	CHECKED	DESIGN LAYOUT	FIELD SURVEY	DRAWING SCALES
HILGARTWILSON	CHRISTINA SHAW	JR	DRAFTED	DRAFTED	AS SHOWN
			DWM		
PAVING PLAN PHASE 2					
FLOREO AT TERAVALIS JOHNSON ROAD & TERAVALIS PKWY NORTHWEST CORNER OF TERAVALIS PARKWAY & SUN VALLEY PARKWAY BUCKEYE, ARIZONA					
HILGARTWILSON ENGINEER PLAN SURVEY MANAGE 244 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: 1ST SUBMITTAL	
AS-BUILT SEAL		DESIGN SEAL		COB PLAN TRACKING #	
ORIGINAL PLAN DATE		LATEST REVISION DATE		ENG - XX-XXXX	
Feb-23		-----		COB PERMIT #	
PROJECT NUMBER		SHEET NUMBER		SHT. 1	
1175		CV01		OF 14	

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.



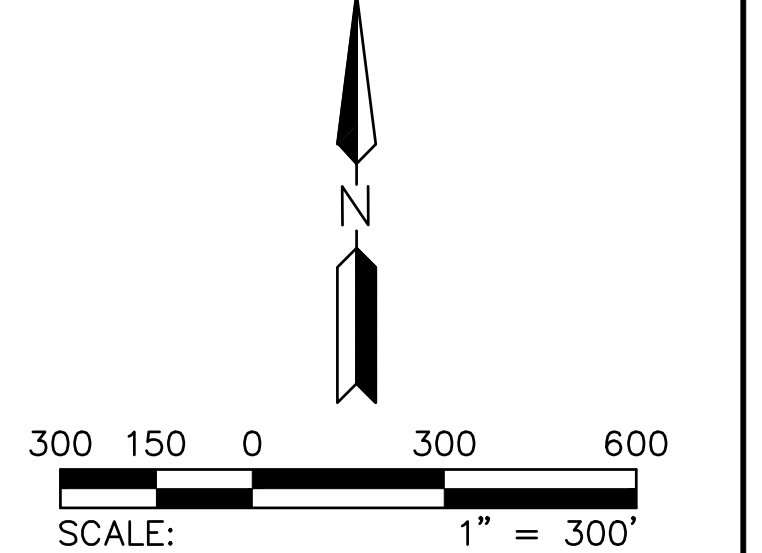
ABBREVIATIONS

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

KEY MAP

LEGEND

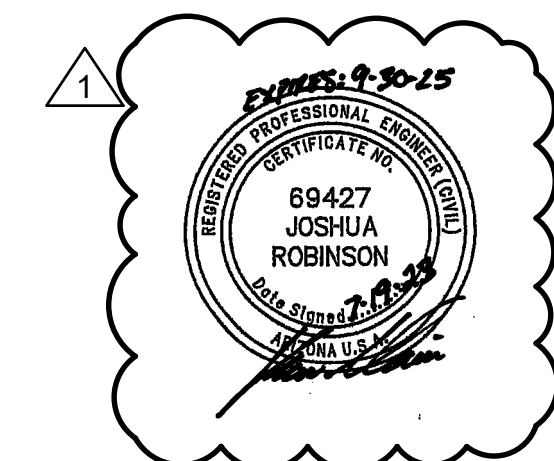
	PARCEL BOUNDARY		EX AC PAVEMENT TO BE REMOVED
	CENTERLINE		FIRE HYDRANT VALVE AND TEE
	RIGHT-OF-WAY		WATER METER
	PROPERTY LINE		WATER VALVE
	SEWER LINE		HEADWALL
	SEWER LINE (15" AND BIGGER)		CATCH BASIN
	EX. SEWER LINE		SEWER MANHOLE
	WATER LINE		STORM DRAIN MANHOLE
	WATER LINE (16" AND BIGGER)		STREET LIGHT
	EX WATER LINE		MONUMENT
	EASEMENT LINE		PAVING CONSTRUCTION NOTE
	EX CABLE TELEVISION		DRAINAGE CONSTRUCTION NOTE
	EX COMMUNICATIONS		DRYWELL
	EX ELECTRIC		BARRICADE
	IRRIGATION SLEEVE		
	PROPOSED PARCEL BOUNDARY IN KEY MAP		
	AC PAVEMENT		



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 JOHNSON & TERAVALIS PAVING PLAN PH 2 KEY MAP & LEGEND

ENGINEER INFORMATION		SUBMITTAL: 1ST 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 DT01	SHT. 2 OF 14



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 OF MUD 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, 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 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 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 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.
 - 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.

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 FOR 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 SWEEPED 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 FOR 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.

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 OBFUSCATED TO THE POINT THAT AS-BUILT MEASUREMENTS CANNOT BE PERFORMED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POT HOLE 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.

ROADWAY DESIGN CRITERIA

STREET	CITY OF BUCKEYE CLASSIFICATION	DESIGN SPEED	POSTED SPEED
TERAVALIS PARKWAY	URBAN PARKWAY	55*	45
JOHNSON ROAD	URBAN ARTERIAL	55*	45

*LOCAL STREET CLASSIFICATION GUIDELINES ARE UTILIZED FOR INTERIM LANE TRANSITION MARKINGS AND DEVICES AT THE NORTH AND SOUTH LIMITS OF THIS PLAN. POSTED SPEED LIMITS IN ADVANCE OF THESE LOCATIONS MUST REMAIN AT 25 MPH UNTIL SUCH TIME THAT THE FULL ROADWAY SECTION HAS BEEN BUILT OUT AND TEMPORARY MARKINGS ARE OBLITERATED AND REPLACED WITH APPROPRIATE PERMANENT MARKINGS.

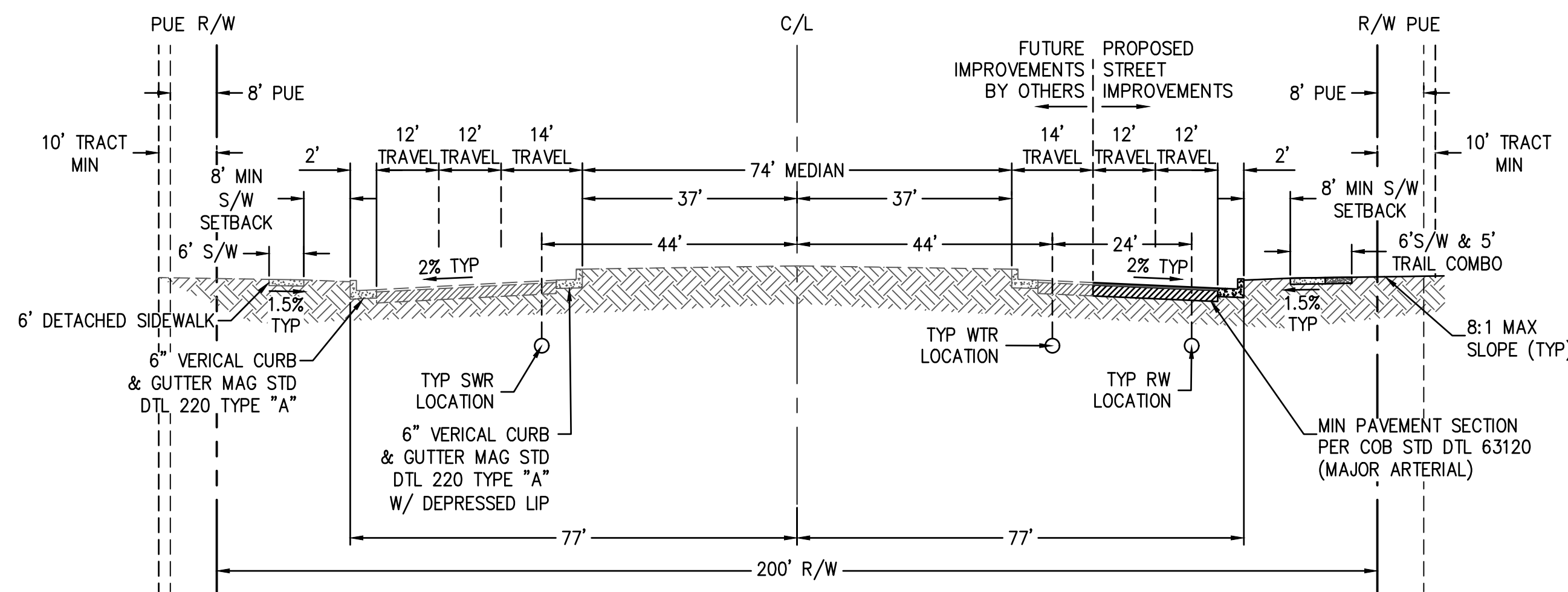
CITY OF BUCKEYE NOTES

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

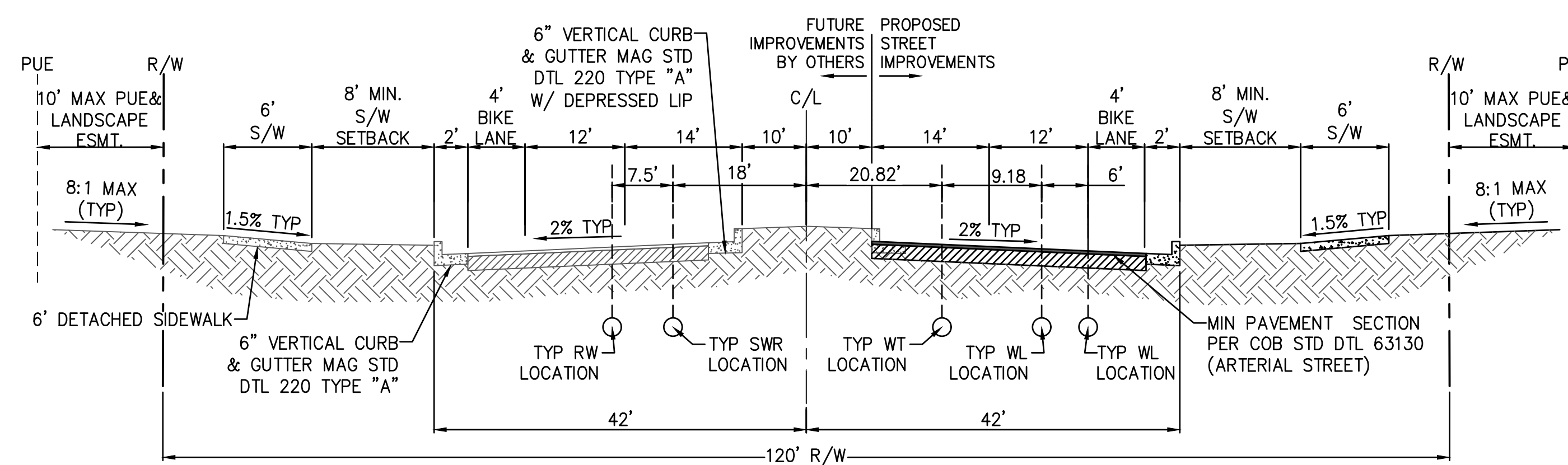


PLAN NAME FLOREO AT TERAVALIS JOHNSON & TERAVALIS PAVING PLAN PH 2 NOTES		SUBMITTAL: 1ST SUBMITTAL
ENGINEER INFORMATION 		
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: ENG-XX-XXXX COB PERMIT #
AS-BUILT SEAL	DESIGN SEAL 	
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE ----	
PROJECT NUMBER 1175	SHEET NUMBER DT02	SH T. 3 OF 14

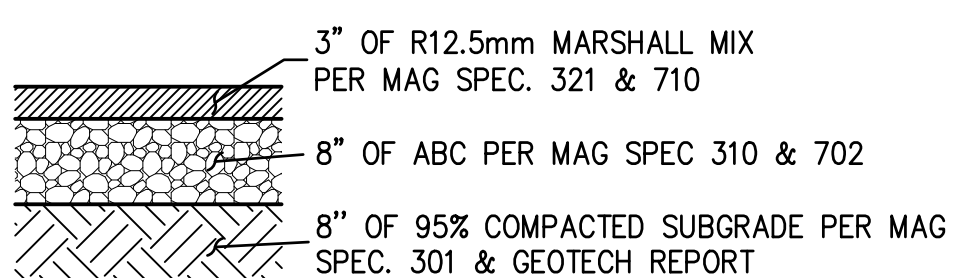
Copyright Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized hilgartwilson employees.



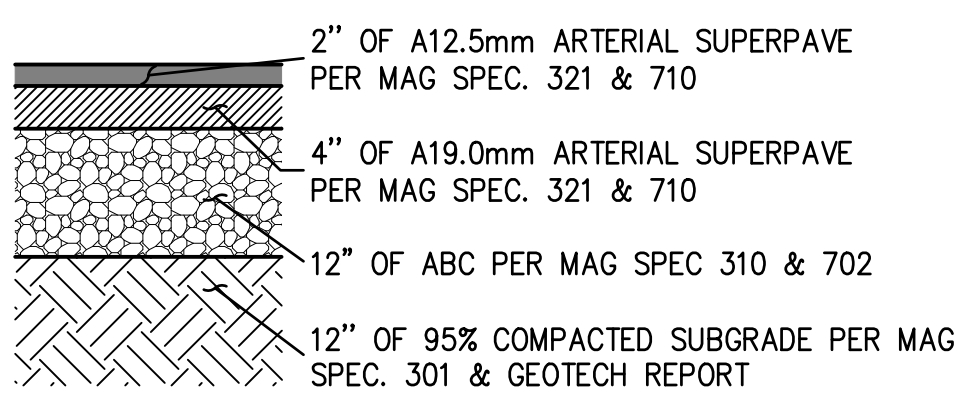
TYPICAL PARKWAY SECTION
TERAVALIS PARKWAY
(LOOKING WEST)
SCALE: NTS



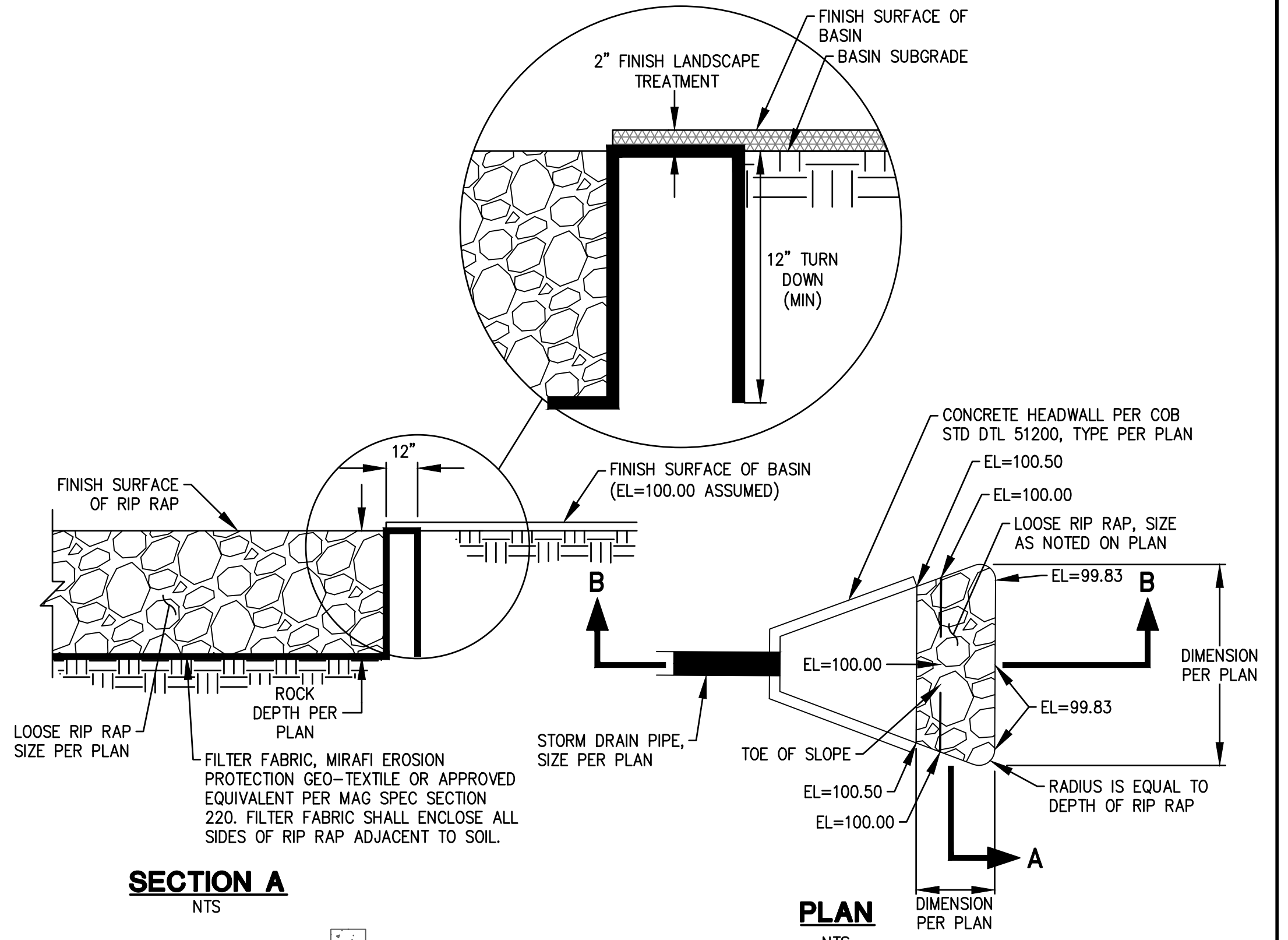
TYPICAL ARTERIAL SECTION
PER COB STD DTL 63130
JOHNSON ROAD
(LOOKING NORTH)
N.T.S.



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



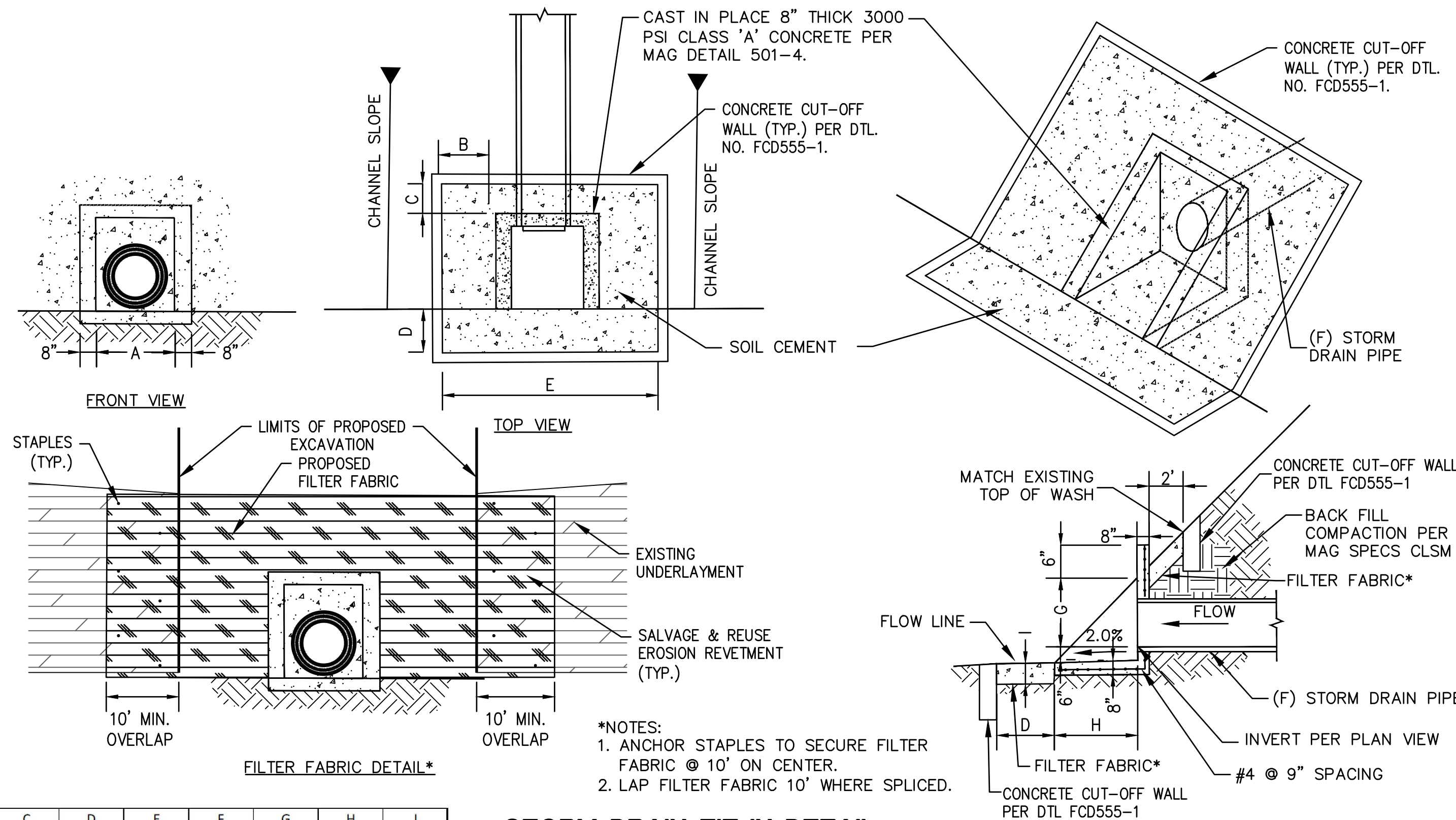
MAJOR ARTERIAL/ PARKWAY
PAVEMENT SECTION
(PER C.O.B. STD DTL 63120 & 63130)
NTS



RIP RAP DETAIL - HEADWALL
NTS

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.



STORM DRAIN TIE-IN DETAIL
NTS

- *NOTES:
1. ANCHOR STAPLES TO SECURE FILTER FABRIC @ 10' ON CENTER.
2. LAP FILTER FABRIC 10' WHERE SPLICED.

SHEET #	OUTLET ID	DIAMETER	A		B		C		D		E		F		G		H		I	
			IN	IN	FT	FT	FT	FT	FT	FT	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
PV02	CO-32	24	30	5.0	2.0	7	13.83	24	30	10	24									
PV05	CO-30	24	30	5.0	2.0	7	13.83	24	30	10	24									

PLAN NAME
FLOEO AT TERAVALIS JOHNSON & TERAVALIS PAVING PLAN PH 2 NOTES & 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
DT03

SHT. 4 OF 14

CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN EXCAVATION.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 953-1100

69427 JOSHUA ROBINSON
Professional Engineer
No. 1025

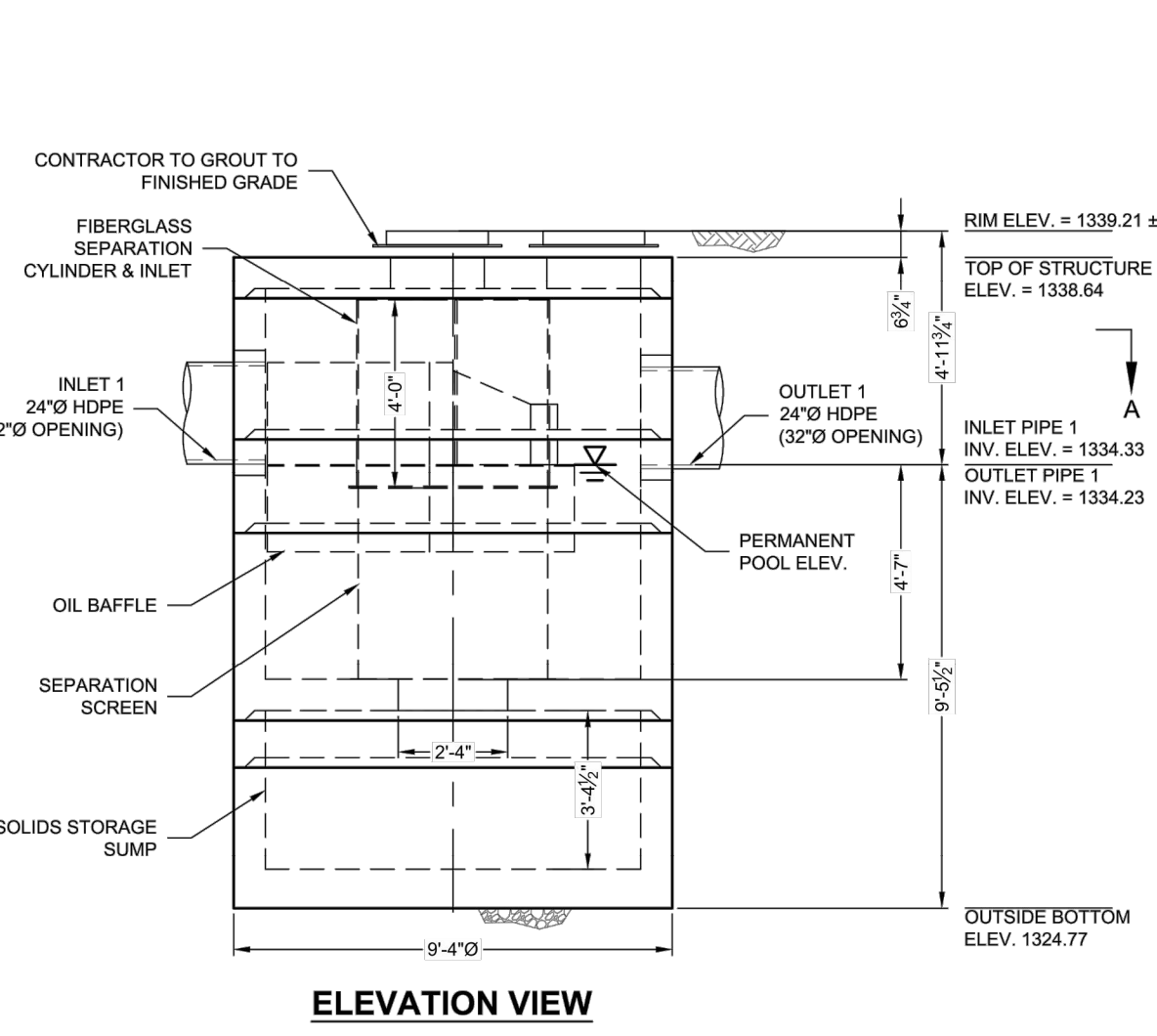
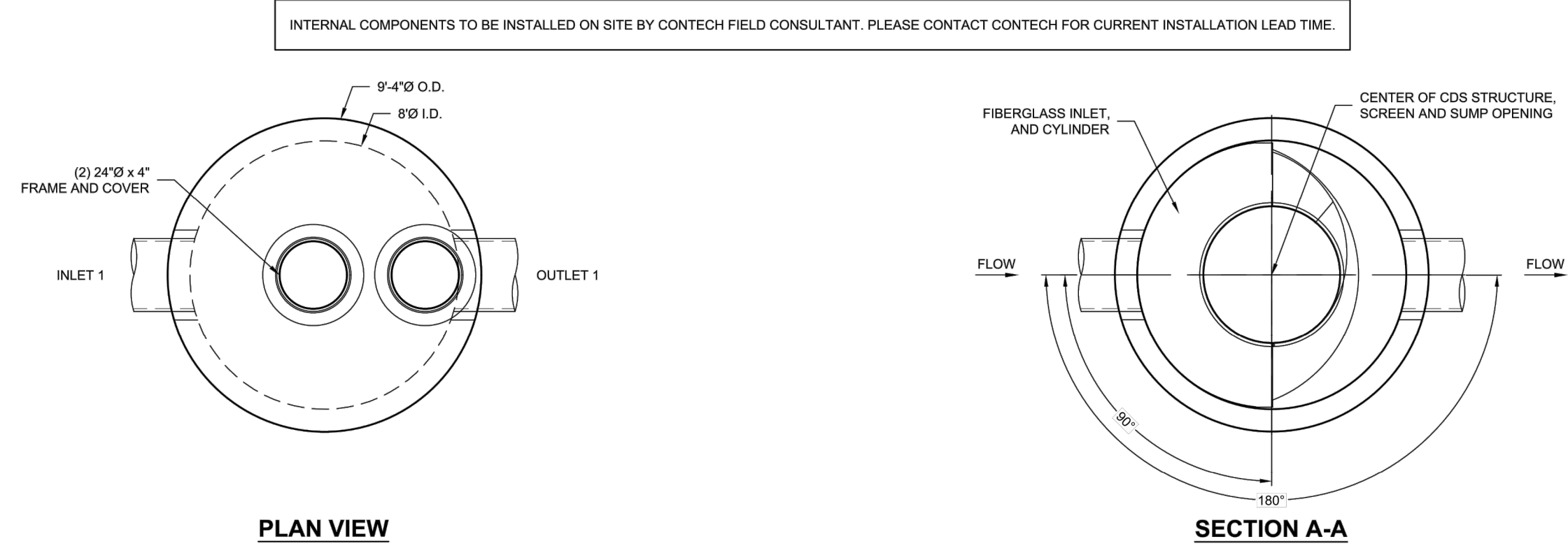
COB PLAN TRACKING #
ENG-XX-XXXX

COB PERMIT #

1ST SUBMITTAL

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.



MATERIAL LIST (PROVIDED BY CONTECH)

COUNT	DESCRIPTION	INSTALLED BY
1	FIBERGLASS INLET AND CYLINDER	CONTECH
1	2400 micron, 4" O.D. x 4.08' SEP. SCREEN	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
2	24" x 4" FRAME & COVER, E#41600388, OR EQUIV.	CONTRACTOR

SITE DESIGN DATA

WATER QUALITY FLOW RATE	6.6 CFS
PEAK FLOW RATE	12.9 CFS
RETURN PERIOD OF PEAK FLOW	10 YRS

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 1'-2" AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M308 AND BE CAST WITH THE CONTECH LOGO.
- IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER.
- CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

STRUCTURE WEIGHT
APPROXIMATE HEAVIEST PICK = 1650 LBS.
STRUCTURE IS DELIVERED IN 6 PIECES

MAX FOOTPRINT = 89'-4"

CONTECH PROPOSAL DRAWING

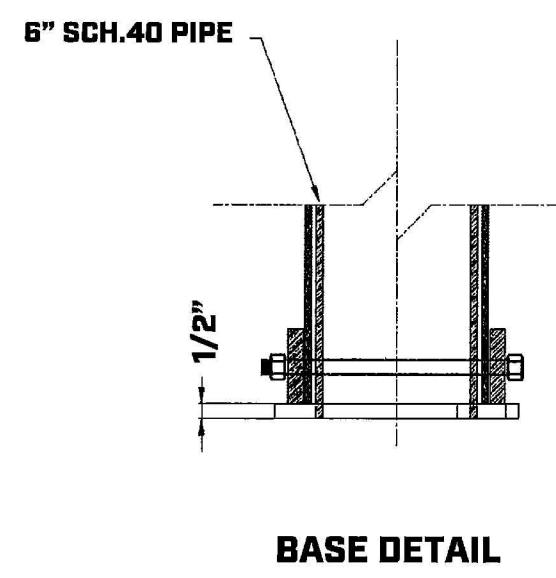
CONTECH ENGINEERED SOLUTIONS LLC
11415 W. WILSON AVENUE, SUITE 100, WEST VALLEY CITY, UT 84113
TEL: 801-972-1100 FAX: 801-972-1101
WWW.CONTECHES.COM

DATE: 02/09/22 SCALE: 1/4" = 1'-0"
DESIGNED: DAH DRAWN: DAH
CHECKED: DAH APPROVED: DAH
PROJECT NO.: 701007 SEQUENCE NO.: 10
SHEET: 1 OF 1

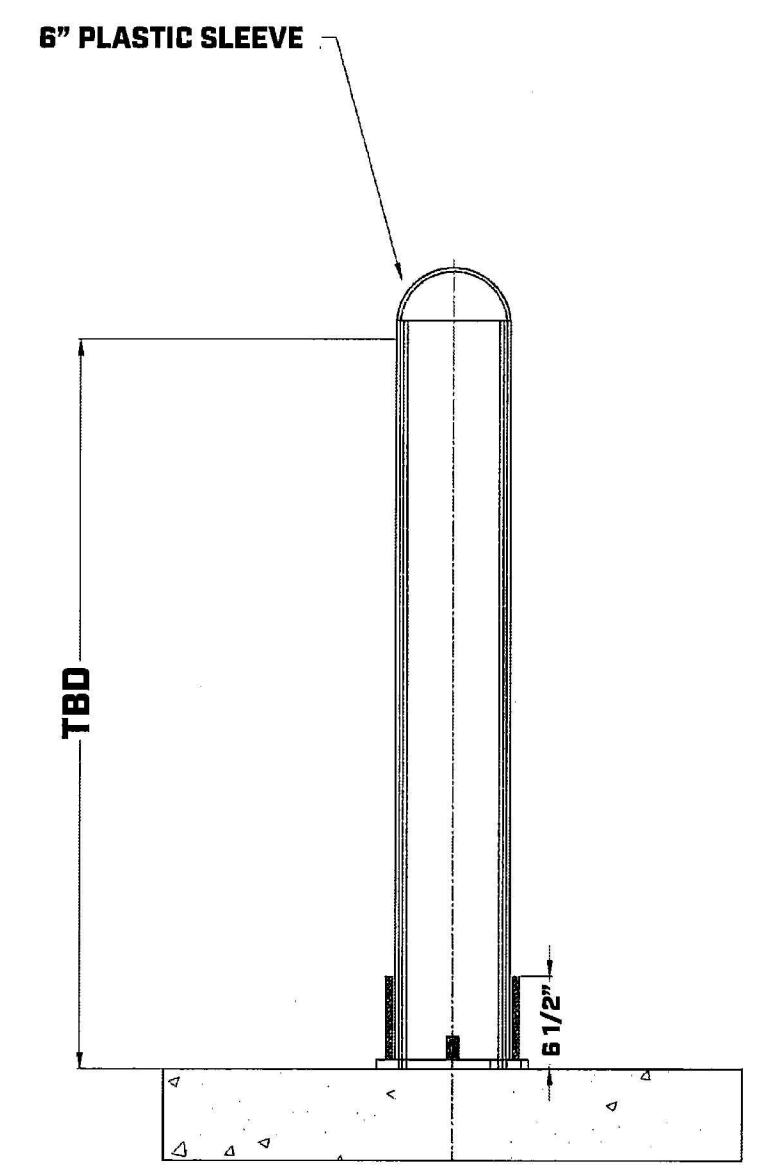
CDS#040-8-C-701007-10
TRILLIUM VILLAGE 3
BUCKEYE, AZ
FOR SYSTEM: SDMH-19 FOR CB-16

CLSD#2 LAYOUT 1A
4040-8-FGIS
5944 / 575484

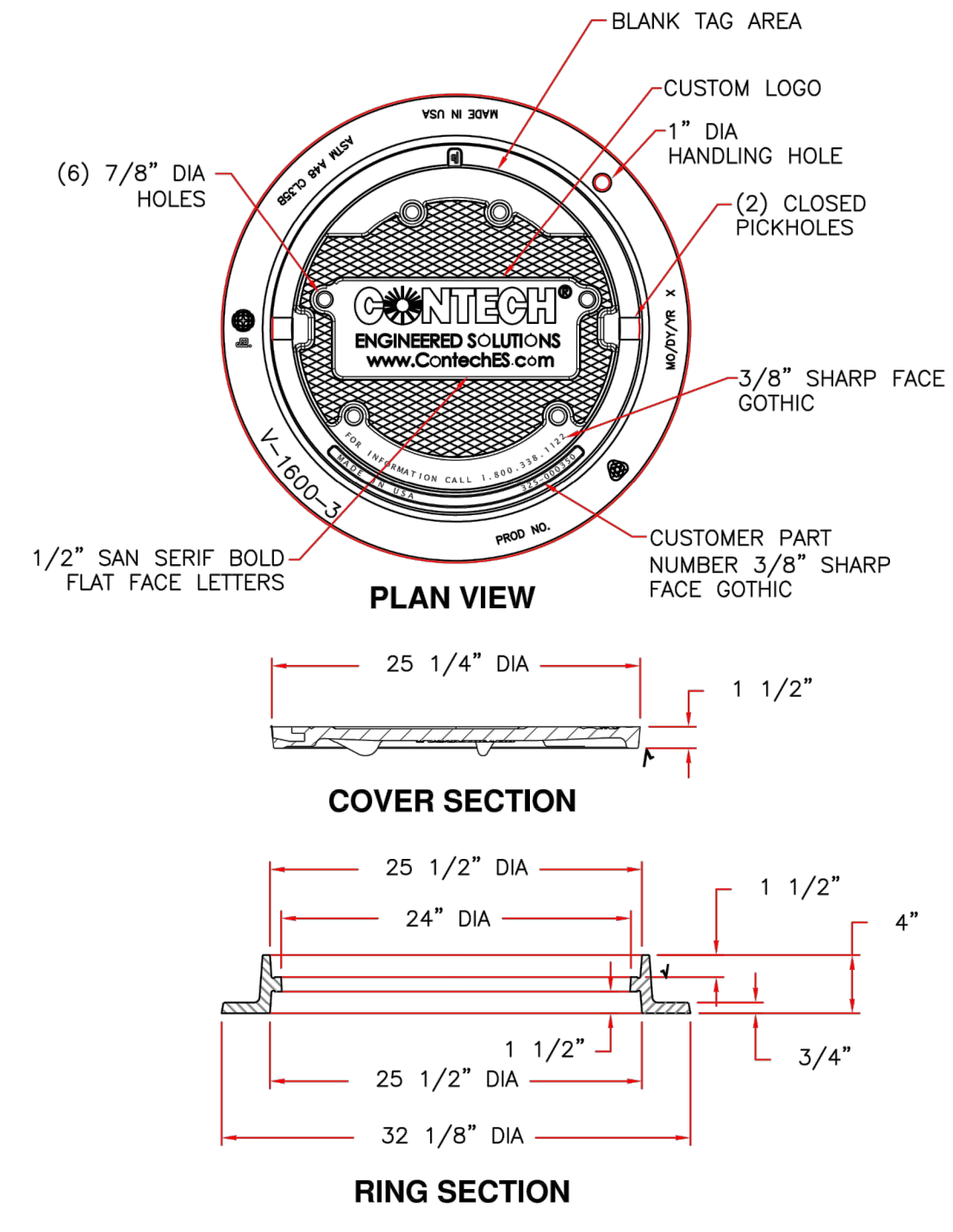
6" RIPRAP		18" RIPRAP	
STONE SIZE RANGE (IN)	% OF GRADATION SMALLER THAN	STONE SIZE RANGE (IN)	% OF GRADATION SMALLER THAN
"9-10"	100	"27-31"	100
"7-8"	85	"22-25"	85
"6-7"	50	"18-21"	50
"2-4"	15	"7-11"	15



6" COLLAPSIBLE LOCKING BOLLARD



V1600-3 V1610-3 Assembly



Product Number
41600389

Design Features

- Materials: Frame - Gray Iron (CL35B), Cover - Gray Iron (CL35B)
- Design Load: Heavy Duty
- Open Area: n/a
- Coating: Undipped
- / Designates Machined Surface

Certification

- ASTM A48
- Country of Origin: USA

Major Components

41600310
41600374

Drawing Revision

05/02/2008 Designer: DEW
6/20/2017 Revised By: DAE

Disclaimer

Weights (lbs.) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

CONFIDENTIAL: This drawing is the property of EJ GROUP, Inc. and contains confidential information, registered marks, patents, trade secret information, and/or know-how that is the property of EJ GROUP, Inc. All rights reserved.

Contact
800 626 4653
ejco.com



PLAN NAME
FLOREO AT TERAVALIS JOHNSON & TERAVALIS PAVING PLAN PH 2 NOTES & DETAILS

ENGINEER INFORMATION
HILGARTWILSON

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

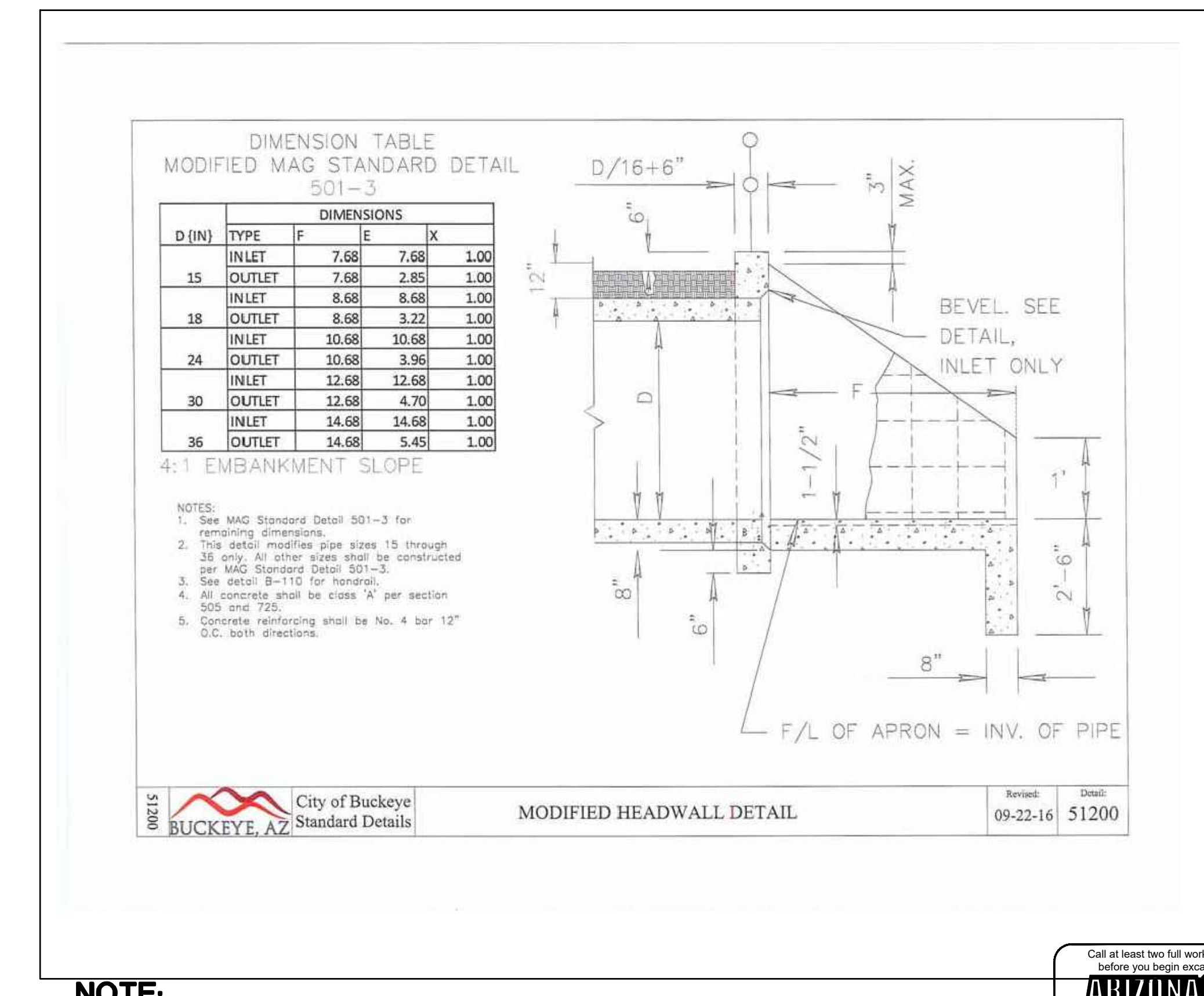
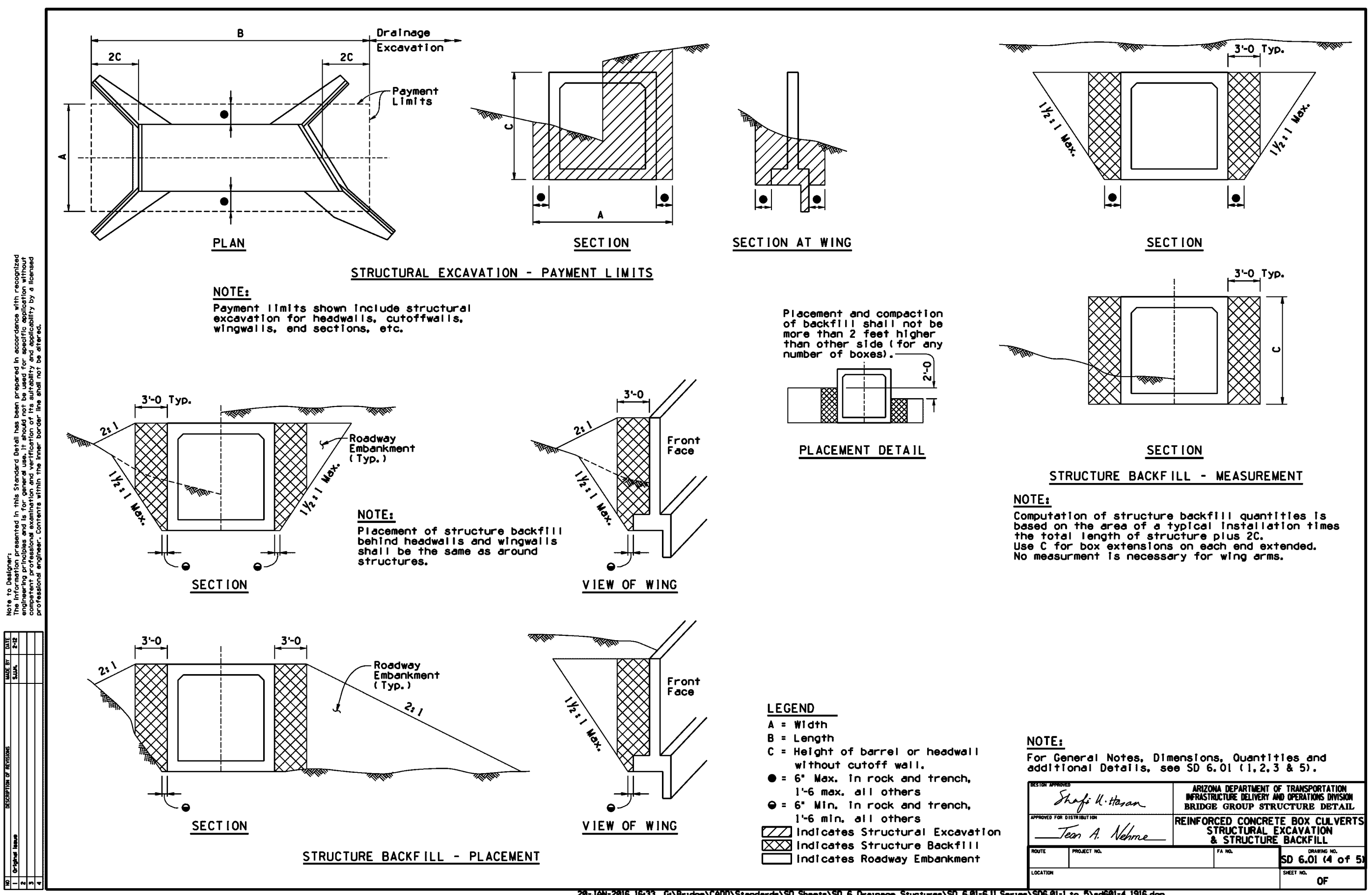
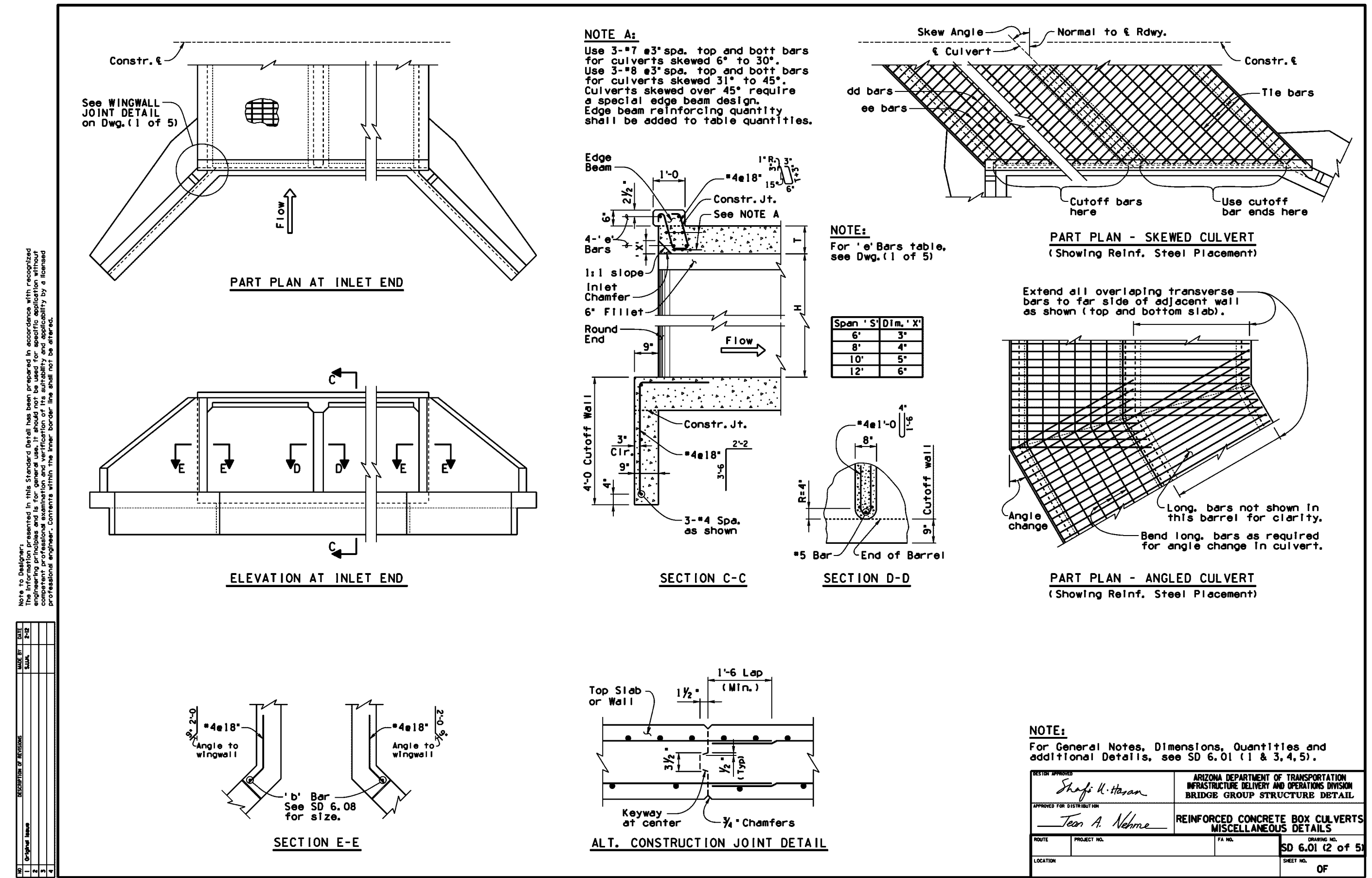
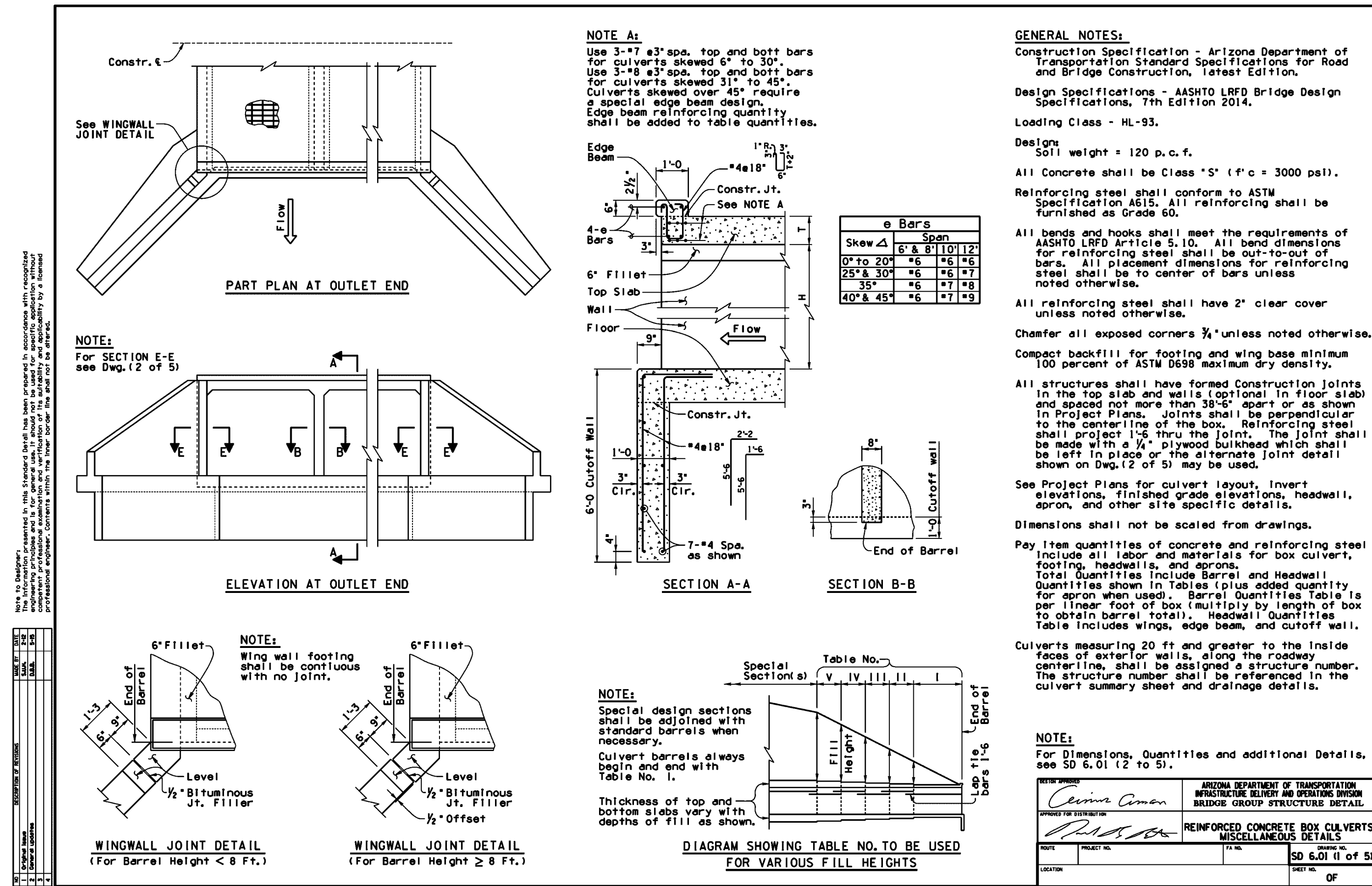
ORIGINAL PLAN DATE: Feb-23
LATEST REVISION DATE: ---

PROJECT NUMBER: 1175
SHEET NUMBER: DT04
SHT. 5 OF 14

COB PLAN TRACKING #
ENG-XX-XXXX
COB PERMIT #

SUBMITTAL: 1ST SUBMITTAL

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
FLOEO AT TERAVALIS JOHNSON & TERAVALIS PAVING PLAN PH 2 NOTES & DETAILS

ENGINEER INFORMATION
HILGARTWILSON

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL
DESIGN SEAL

ORIGINAL PLAN DATE
Feb-23

PROJECT NUMBER
1175

LATEST REVISION DATE

SHEET NUMBER
DT05

SHT. 6 OF 14

DATE: 09-22-16
SHEET NO: 51200

69427 JOSHUA ROBINSON
REGISTERED PROFESSIONAL ENGINEER
ARIZONA LICENSE # 2173

ARIZONA 811
Call at least two full working days before you begin work.
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 953-1100

U:\1100\1175\ENGR\Wintersburg-Johnson\PLANS\PAVING\PHASE 2\1175-DT05.dwg 7/19/2023 10:28 AM

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 I
6" x 6" FILL

Span	Height	Top	Bottom	Length	Area	Volume	Weight	Notes
3'	6"	12'	12'	12'	12'	12'	12'	
4'	6"	12'	12'	12'	12'	12'	12'	
5'	6"	12'	12'	12'	12'	12'	12'	
6'	6"	12'	12'	12'	12'	12'	12'	
7'	6"	12'	12'	12'	12'	12'	12'	
8'	6"	12'	12'	12'	12'	12'	12'	
9'	6"	12'	12'	12'	12'	12'	12'	
10'	6"	12'	12'	12'	12'	12'	12'	
11'	6"	12'	12'	12'	12'	12'	12'	
12'	6"	12'	12'	12'	12'	12'	12'	

TYPICAL SECTION
(Shown as 6' x 6' Table I)

NOTE:
Reinforcing shown for 6' x 6' Table I 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 Quantities and Tables III thru V see SD 6.05 (2 of 2).

REINFORCED CONCRETE BOX CULVERTS
FIVE BARRELS
CULVERT HEIGHT 3' TO 7'
SD 6.05 (2 of 2)

TABLE II
10" x 10" FILL

Span	Height	Top	Bottom	Length	Area	Volume	Weight	Notes
3'	10"	12'	12'	12'	12'	12'	12'	
4'	10"	12'	12'	12'	12'	12'	12'	
5'	10"	12'	12'	12'	12'	12'	12'	
6'	10"	12'	12'	12'	12'	12'	12'	
7'	10"	12'	12'	12'	12'	12'	12'	
8'	10"	12'	12'	12'	12'	12'	12'	
9'	10"	12'	12'	12'	12'	12'	12'	
10'	10"	12'	12'	12'	12'	12'	12'	
11'	10"	12'	12'	12'	12'	12'	12'	
12'	10"	12'	12'	12'	12'	12'	12'	

TYPICAL SECTION
(Shown as 10' x 10' Table II)

NOTE:
Reinforcing shown for 10' x 10' 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 Quantities and Tables III thru V see SD 6.05 (2 of 2).

REINFORCED CONCRETE BOX CULVERTS
FIVE BARRELS
CULVERT HEIGHT 3' TO 7'
SD 6.05 (2 of 2)

TABLE III
QUANTITIES PER LINEAR FOOT OF BARREL (TABLE I)

Span	Height	Concrete	Rebar	Formwork	Weight
3'	6"	1.2	1.2	1.2	1.2
4'	6"	1.2	1.2	1.2	1.2
5'	6"	1.2	1.2	1.2	1.2
6'	6"	1.2	1.2	1.2	1.2
7'	6"	1.2	1.2	1.2	1.2
8'	6"	1.2	1.2	1.2	1.2
9'	6"	1.2	1.2	1.2	1.2
10'	6"	1.2	1.2	1.2	1.2
11'	6"	1.2	1.2	1.2	1.2
12'	6"	1.2	1.2	1.2	1.2

TABLE IV
QUANTITIES PER LINEAR FOOT OF BARREL (TABLE II)

Span	Height	Concrete	Rebar	Formwork	Weight
3'	10"	1.2	1.2	1.2	1.2
4'	10"	1.2	1.2	1.2	1.2
5'	10"	1.2	1.2	1.2	1.2
6'	10"	1.2	1.2	1.2	1.2
7'	10"	1.2	1.2	1.2	1.2
8'	10"	1.2	1.2	1.2	1.2
9'	10"	1.2	1.2	1.2	1.2
10'	10"	1.2	1.2	1.2	1.2
11'	10"	1.2	1.2	1.2	1.2
12'	10"	1.2	1.2	1.2	1.2

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) of 2).

REINFORCED CONCRETE BOX CULVERTS
FIVE BARRELS
CULVERT HEIGHT 3' TO 7'
SD 6.05 (2 of 2)

PLAN

NOTE:
For SECTION A-A, see SD 6.01 (1) of 5).

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

NOTE:
For General Notes, Dimensions, and additional details, see SD 6.01 (1) of 5). For Headwall Quantities see SD 6.09 (1) to 3).

REINFORCED CONCRETE BOX CULVERTS
OUTLET BINGS - SEE SD 6.09 (1) TO 3)
CULVERT HEIGHT 3' TO 7'
SD 6.09 (1) OF 3

PLAN

NOTE:
For SECTION C-C, see SD 6.01 (2) of 5).

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

NOTE:
For General Notes, Dimensions, and additional details, see SD 6.01 (1) of 5). For Headwall Quantities see SD 6.09 (1) to 3).

REINFORCED CONCRETE BOX CULVERTS
OUTLET BINGS - SEE SD 6.09 (1) TO 3)
CULVERT HEIGHT 3' TO 7'
SD 6.09 (1) OF 3

PLAN NAME
FLORED AT TERAVALIS JOHNSON & TERAVALIS PAVING PLAN PH 2 NOTES & 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
DT06

SHT. 7 OF 14

CONTACT ARIZONA 811 AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN EXCAVATION.
ARIZONA 811
CALL 811 OR visit ARIZONA811.COM

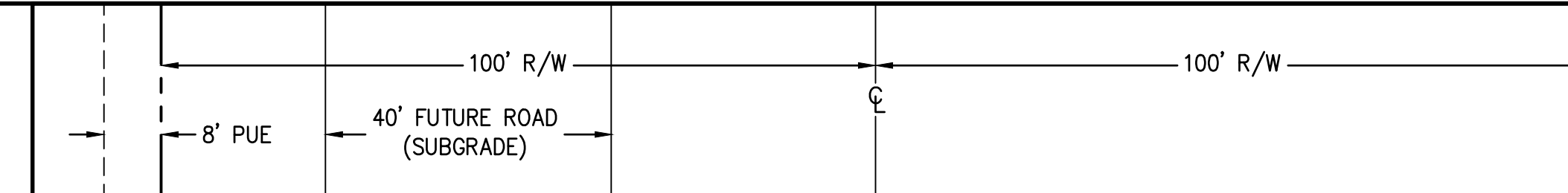
69427 JOSHUA ROBINSON
REGISTERED PROFESSIONAL ENGINEER
ARIZONA
No. 10254

COB PLAN TRACKING #
ENG-XX-XXXX

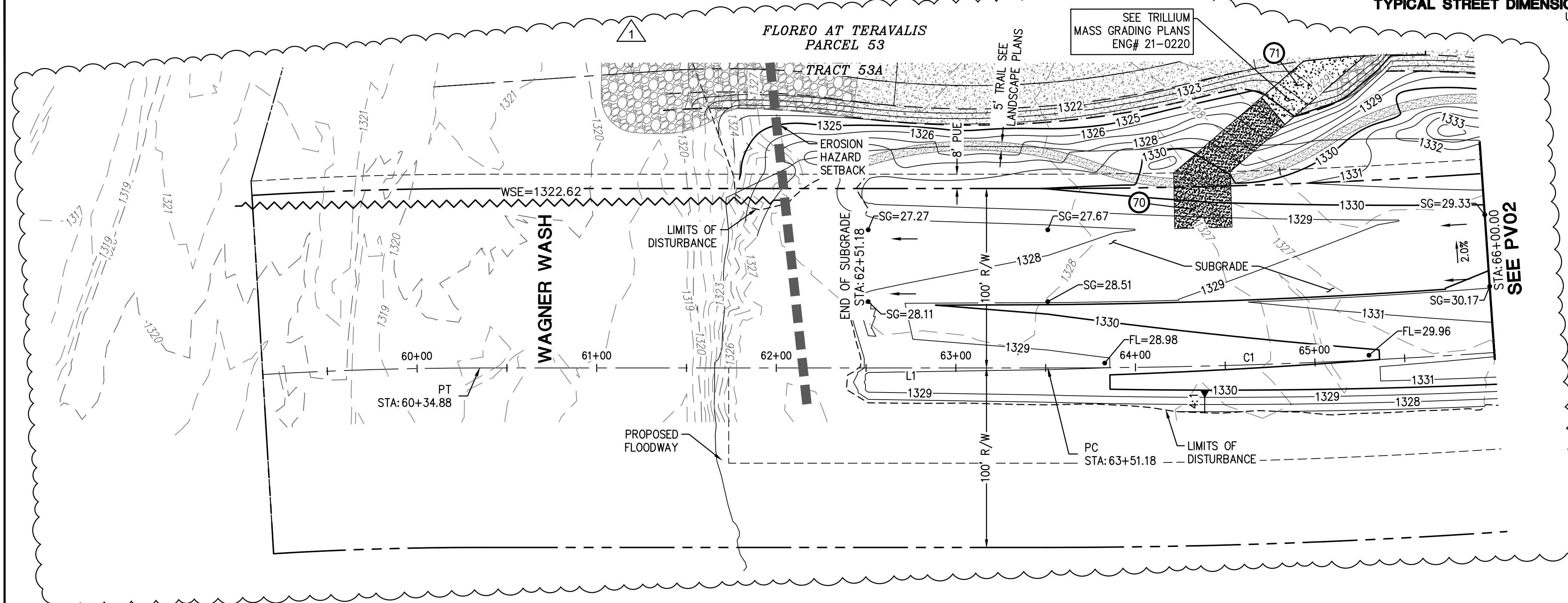
COB PERMIT #
1ST SUBMITTAL

LINE TABLE			CURVE TABLE			
NO.	DIRECTION	LENGTH	NO.	RADIUS	DELTA	LENGTH
L1	N60°10'20"W	316.30'	C1	3600.00'	29°17'29"	1840.43'

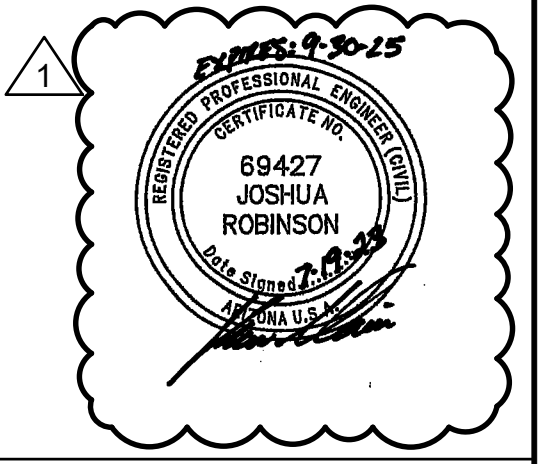
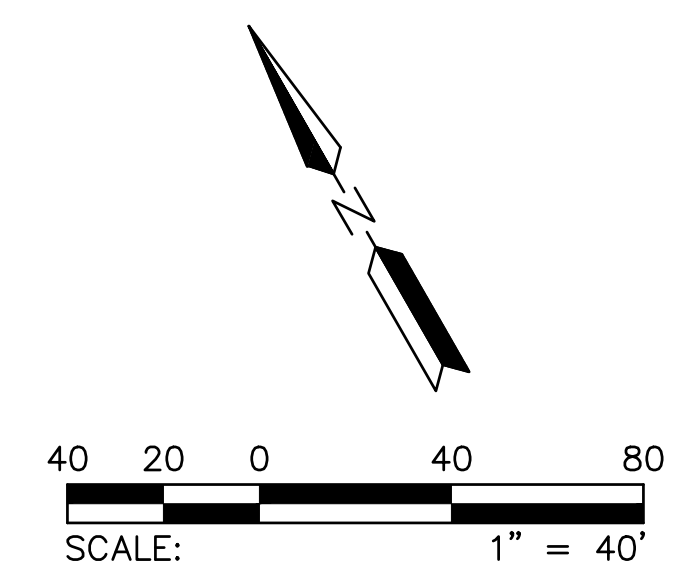
NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



- PAVING CONSTRUCTION NOTES
- 70 CONSTRUCT 20' WIDE, 9" THICK CLASS 'A' CONCRETE ACCESS RAMP. SLOPE OF RAMP TO BE 10:1 MAX. 225 SY
 - 71 INSTALL 12' WIDE ALL-WEATHER ACCESS ROAD, 6" THICK STABILIZED D.G. SLOPE OF RAMP TO BE 10:1 MAX. 101 SY

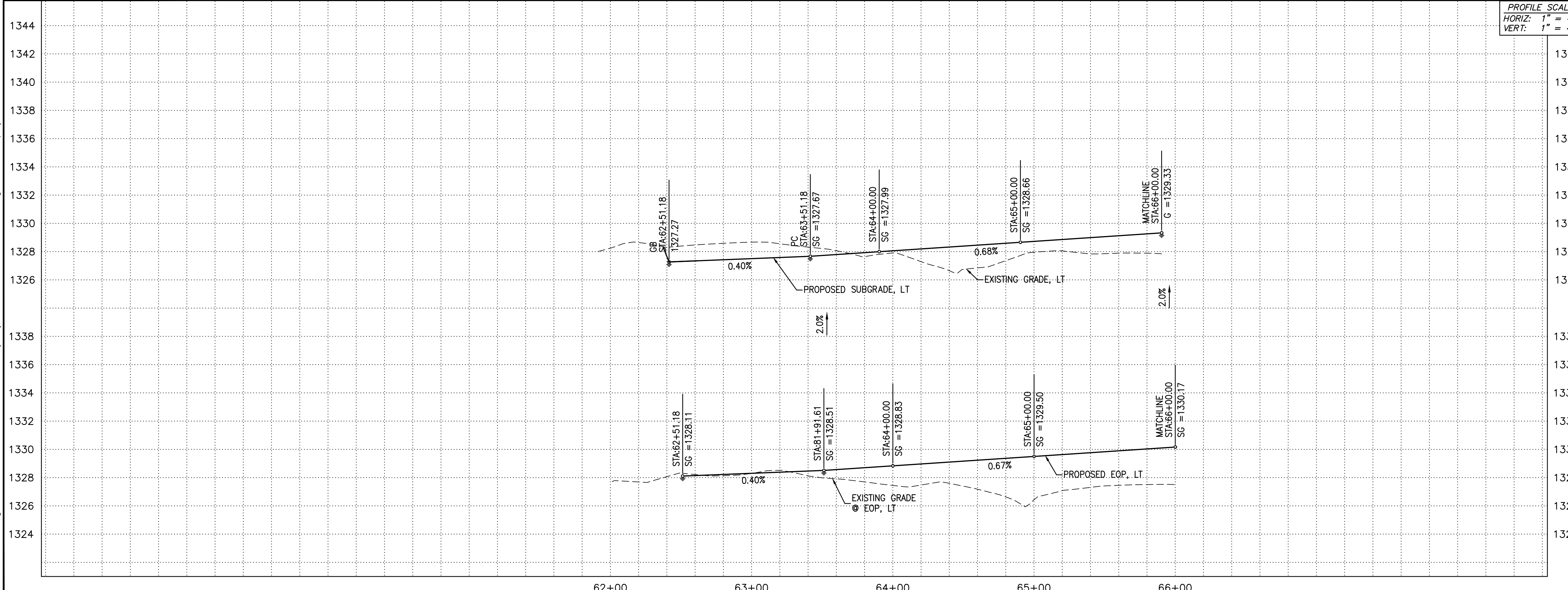


TERAVALIS PARKWAY



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.



KEYMAP N.T.S.

ARIZONA 311
Arizona Blue State, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-6348)
In Maricopa County: (602) 263-1100

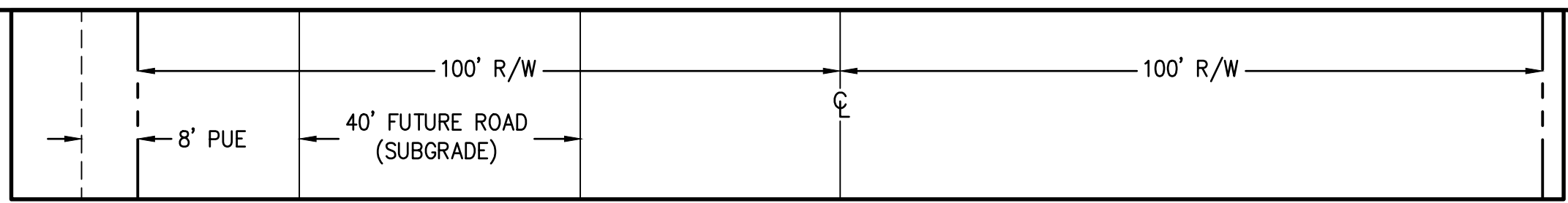
FLOREO AT TERAVALIS JOHNSON & TERAVALIS PAVING PLAN PHASE 2

ENGINEER INFORMATION		SUBMITTAL: 1ST SUBMITTAL
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	
AS-BUILT SEAL	DESIGN SEAL	SUBMITTAL: ENG-XX-XXXX COB PERMIT #
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE	
PROJECT NUMBER 1175	SHEET NUMBER PV01	SHT. 8 OF 14

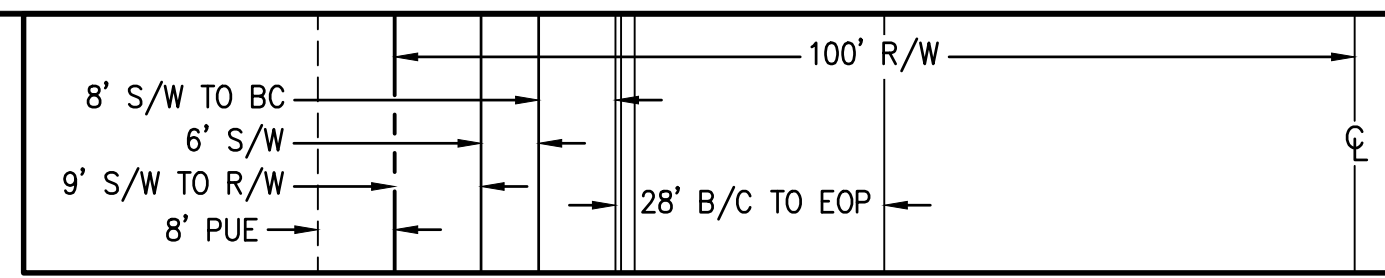
Copyright, Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.

CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C1	3600.00'	29°17'29"	1840.43'	L1	N09°54'43"E	550.03'
C2	35.00'	89°14'50"	54.52'			

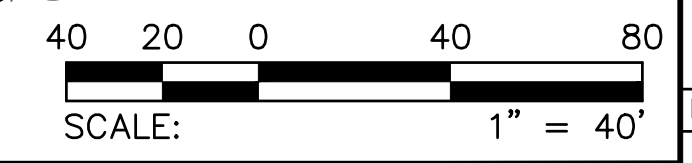
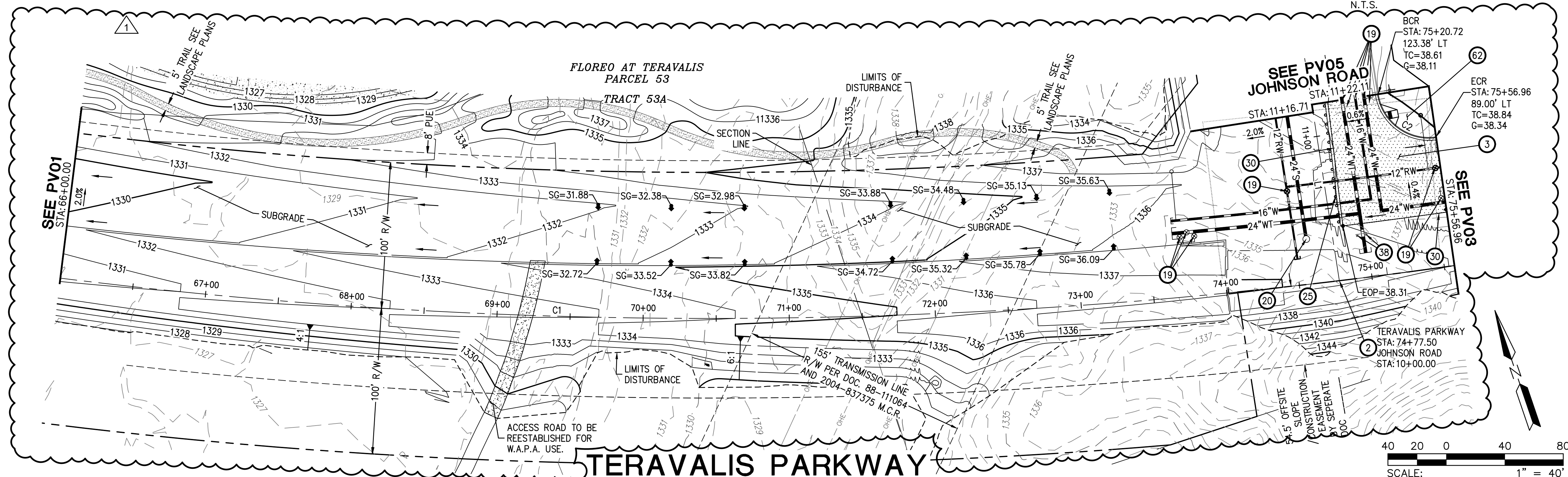
NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



TYPICAL STREET DIMENSIONS - TERAVALIS PARKWAY (SUBGRADE ONLY)
UNLESS NOTED OTHERWISE
LOOKING EAST
N.T.S.



TYP. STREET DIMENSIONS - TERAVALIS PARKWAY (INTERIM BULDOZ)
DESIGN SPEED = 55 MPH
UNLESS NOTED OTHERWISE
LOOKING EAST
N.T.S.



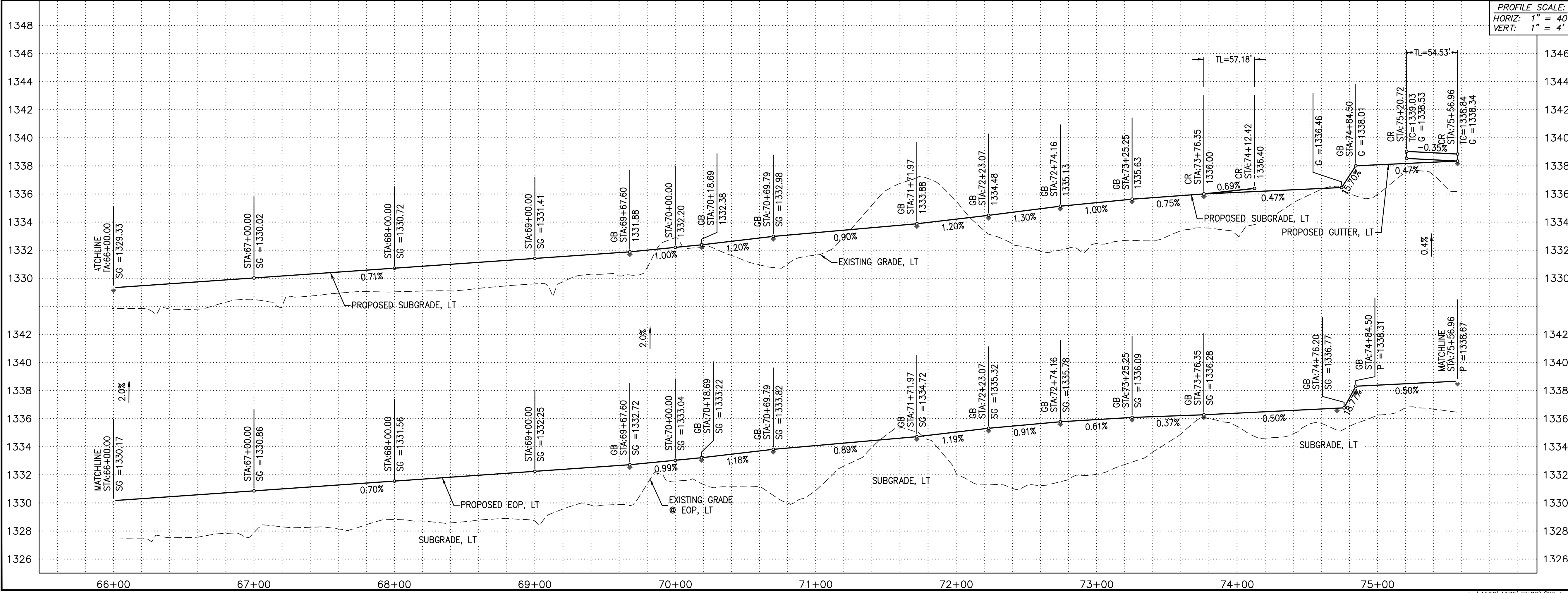
PAVING CONSTRUCTION NOTES		
2	INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'.	1 EA
3	INSTALL PAVEMENT 6" AC (2" OF A12.5MM ARTERIAL SUPERPAVE ON 4" OF A19.0MM ARTERIAL SUPERPAVE) OVER 12" ABC. SEE TYPICAL SECTION ON SHEET DT03.	561 SY
19	ADJUST WATER VALVE ADJUSTMENT PER MAG DTL 391-2.	11 EA
20	ADJUST MANHOLE FRAME & COVER PER MAG STD DTL 422 AND COB DTL 41260.	1 EA
25	INSTALL BARRICADE; MAG STD DTL 130-B.	83 LF
30	INSTALL THICKENED EDGE OF PAVEMENT PER MAG STD DTL 201 TYPE "A", D=18".	157 LF
38	INSTALL STREET SIGN POST; PER COB DTL 65120.	2 EA
62	CONSTRUCT DIRECTIONAL SIDEWALK RAMPS PER COB STD DTL 63240. MODIFIED WITH SINGLE RAMP.	1 EA



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.

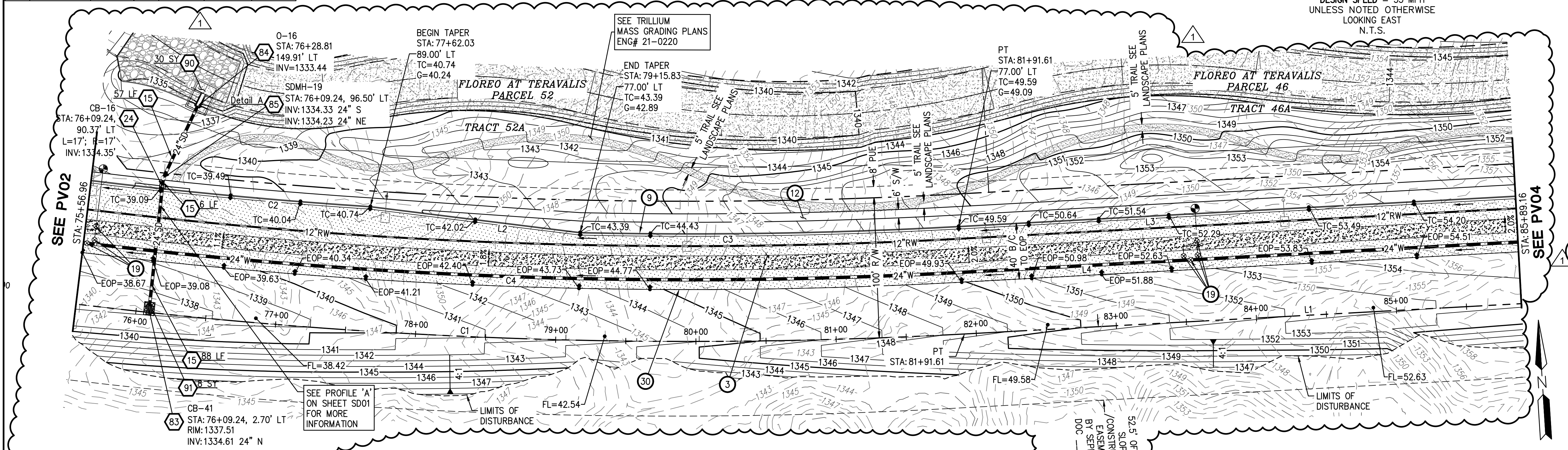
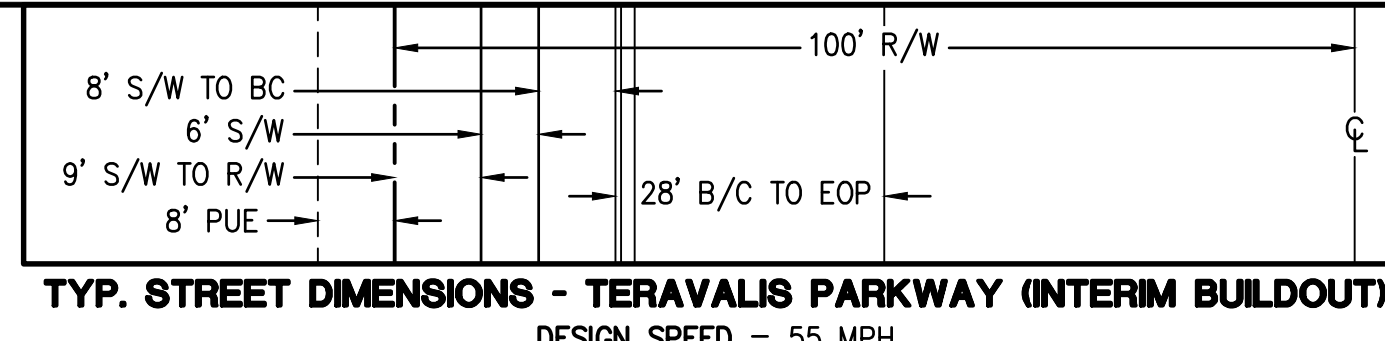
FLOREO AT TERAVALIS JOHNSON & TERAVALIS PAVING PLAN PHASE 2

ENGINEER INFORMATION		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 PV02	
	SHT. 9 OF 14	

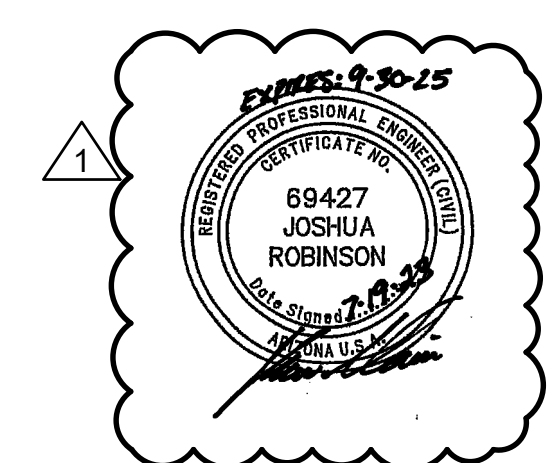


Copyright, Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.

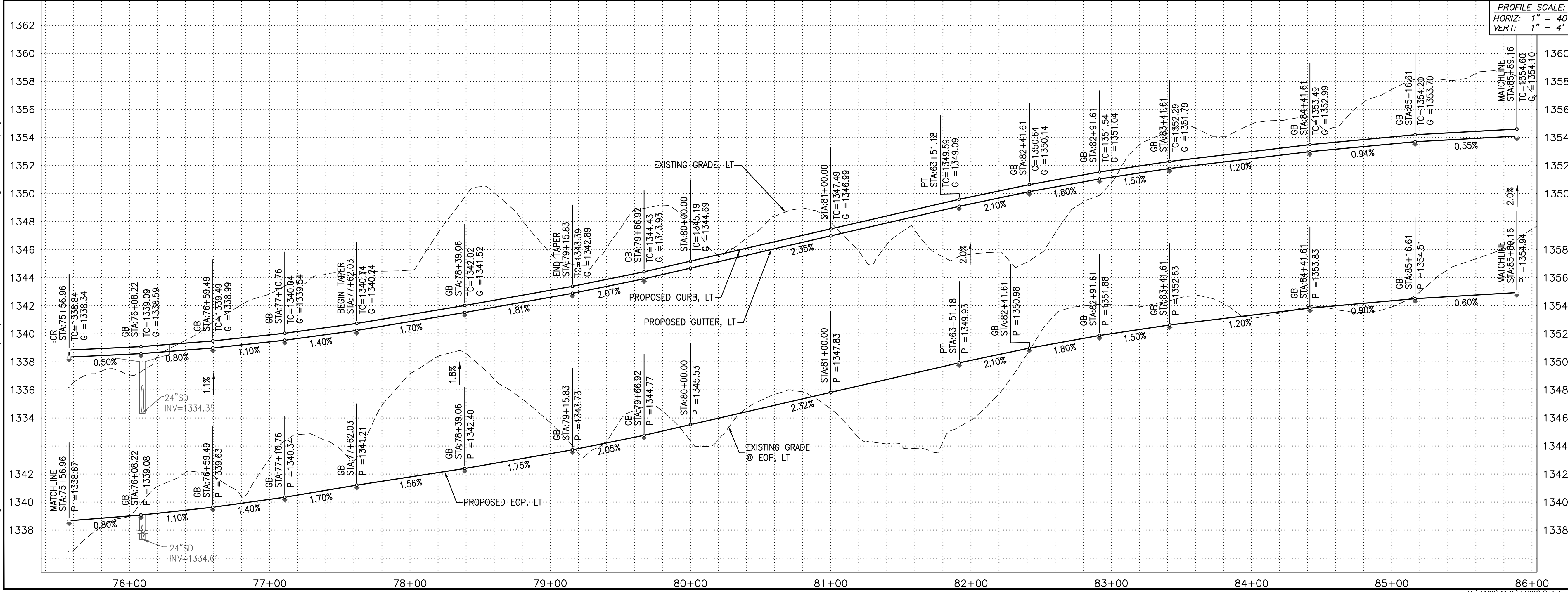
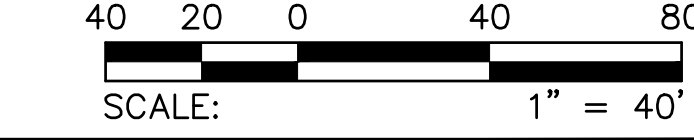
NO.	DIRECTION	LENGTH	NO.	RADIUS	DELTA	LENGTH
L1	S89°27'49"E	1618.76'	C1	3600.00'	29°17'29"	1840.43'
L2	S79°17'06"E	150.72'	C2	3510.99'	3°11'53"	195.98'
L3	S89°27'49"E	397.55'	C3	3523.76'	4°23'18"	269.88'
L4	N89°27'49"W	334.90'	C4	3563.00'	10°06'03"	628.13'



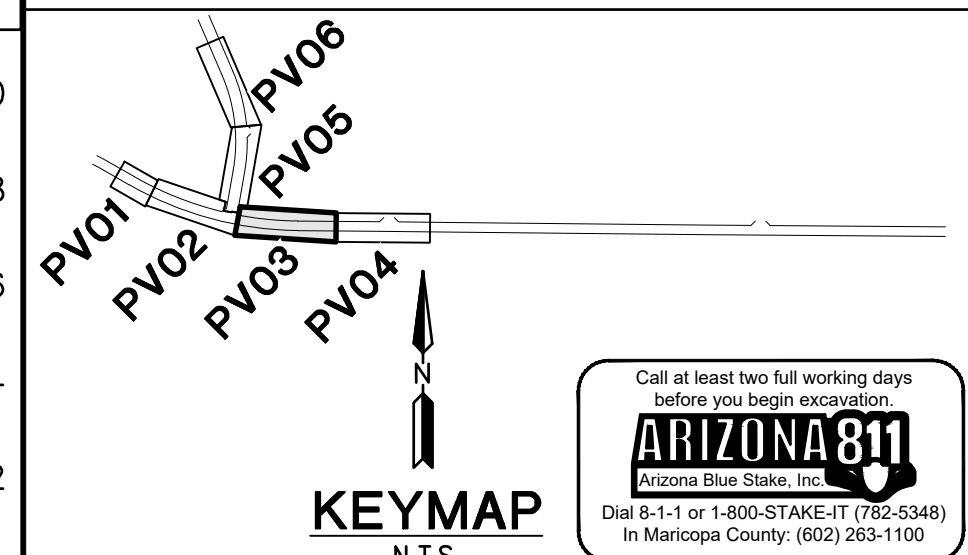
- PAVING CONSTRUCTION NOTES**
- 3 INSTALL PAVEMENT 6" AC (2" OF A12.5MM ARTERIAL SUPERPAVE ON 4" OF A19.0MM ARTERIAL SUPERPAVE) OVER 12" ABC. SEE TYPICAL SECTION ON SHEET DT03. 4683 SY
 - 9 CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A. 1018 LF
 - 12 CONSTRUCT 6" SIDEWALK; MAG STD DTL 230. 6128 SF
 - 19 ADJUST WATER VALVE ADJUSTMENT PER MAG DTL 391-2. 7 EA
 - 30 INSTALL THICKENED EDGE OF PAVEMENT PER MAG STD DTL 201 TYPE "A", D=18". 628 LF
- STORM DRAIN CONSTRUCTION NOTES**
- 15 INSTALL 24" RGRCP STORM DRAIN, CLASS IV 151 LF
 - 24 CONSTRUCT CATCH BASIN PER COB DTL B-510A & B510B; SIZE PER PLAN 1 EA
 - 83 CONSTRUCT CATCH BASIN PER MAG STD DTL 537 TYPE "G", DOUBLE GRATE. 1 EA
 - 84 CONSTRUCT CONCRETE HEADWALL WITH GROUTED RIP-RAP PER STORM DRAIN TIE-IN PER DETAIL ON SHEET DT01. 1 EA
 - 85 INSTALL CONTECH WATER QUALITY SYSTEM. SEE PLAN FOR DETAIL LETTER AND DETAILS ON SHEET DT04 FOR MORE INFORMATION. 1 EA
 - 90 INSTALL SHOWN CONCRETE PER STORM DRAIN TIE-IN DETAIL SHOWN ON DT01. 30 SY
 - 91 PLACE LOOSE RIP-RAP D50=4", THICKNESS 8" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. 8 SY



TERAVALIS PARKWAY



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.



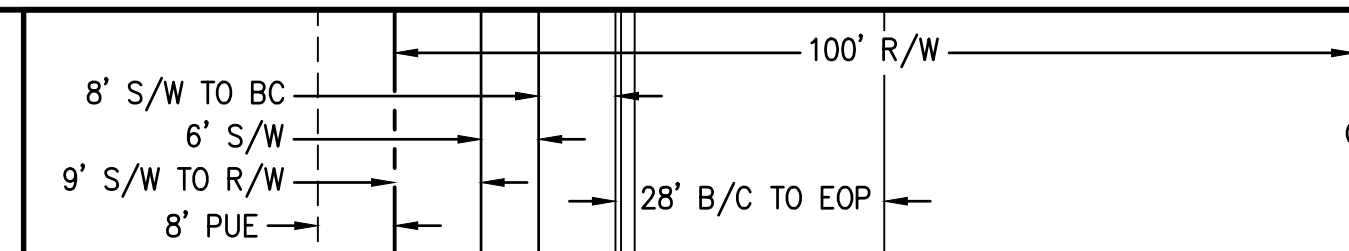
FLOREO AT TERAVALIS JOHNSON & TERAVALIS PAVING PLAN PHASE 2

ENGINEER INFORMATION COB PERMITTING APPROVED SEAL COB ENGINEERING APPROVED SEAL		SUBMITTAL: 1ST SUBMITTAL
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE -----	
PROJECT NUMBER 1175	SHEET NUMBER PV03 OF 14	COB PLAN TRACKING # ENG-XX-XXXX COB PERMIT #

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.

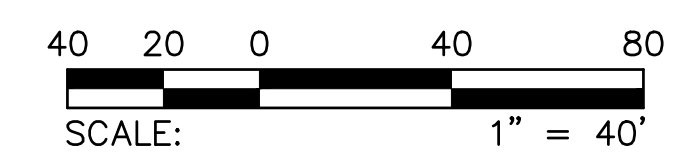
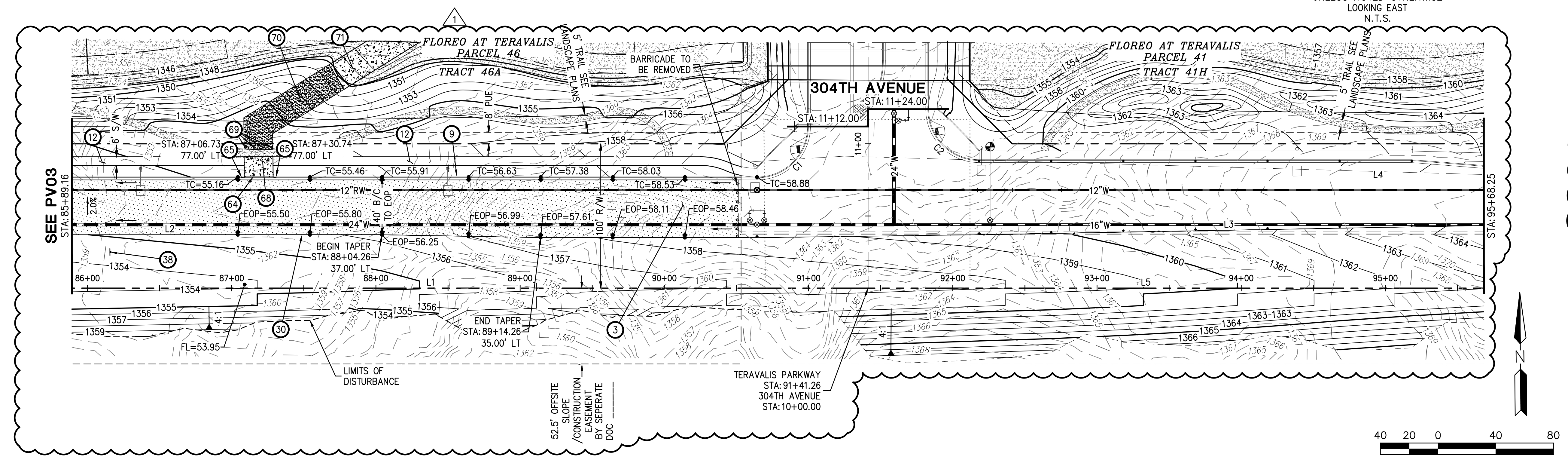
CURVE TABLE				LINE TABLE			LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH	NO.	DIRECTION	LENGTH
C1	35.00'	90°00'00"	54.98'	L1	S89°27'49"E	949.64'	L4	S84°53'23"E	150.47'
C2	35.00'	90°00'00"	54.98'	L2	S89°27'48"E	215.16'	L5	S89°27'49"E	669.12'
				L3	N89°29'59"E	350.05'			

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

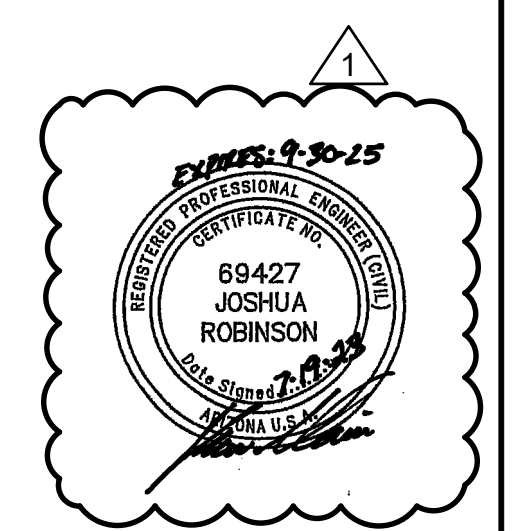


DESIGN SPEED = 55 MPH
UNLESS NOTED OTHERWISE
LOOKING EAST
N.T.S.

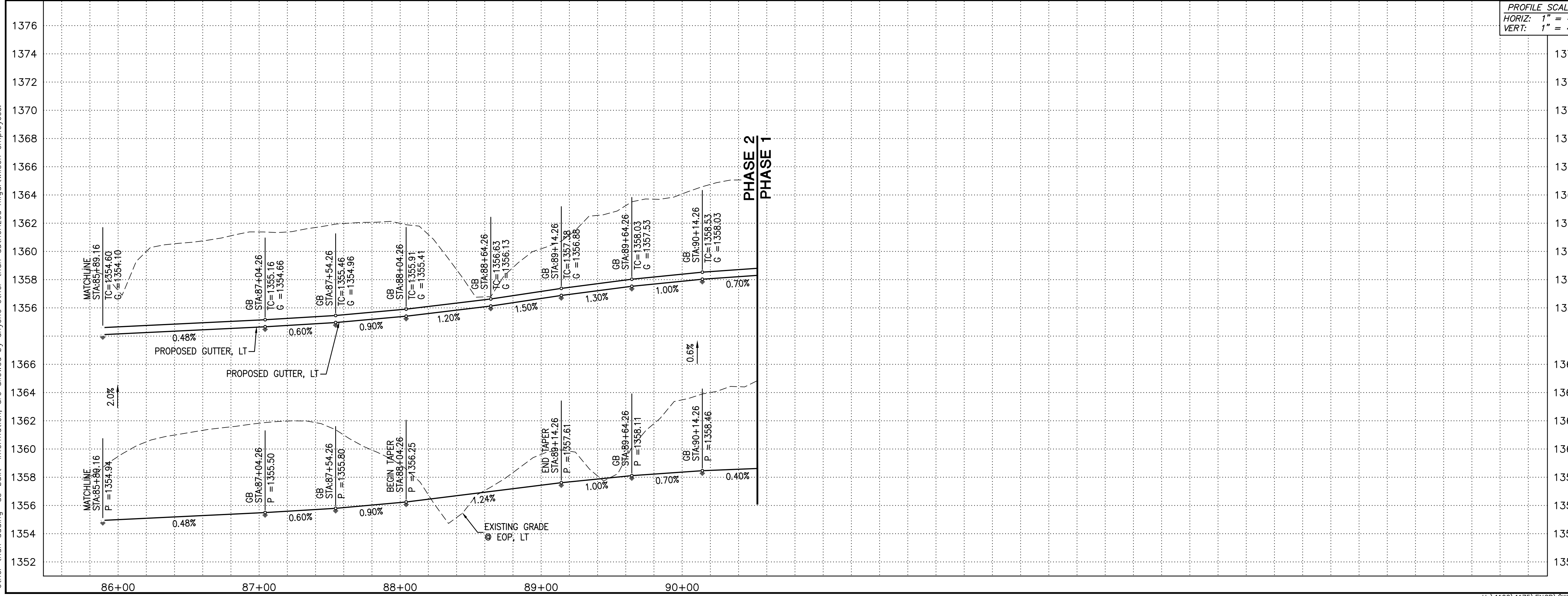
- PAVING CONSTRUCTION NOTES**
- 3) INSTALL PAVEMENT 6" AC (2" OF A12.5MM ARTERIAL SUPERPAVE ON 4" OF A19.0MM ARTERIAL SUPERPAVE) OVER 12" ABC. SEE TYPICAL SECTION ON SHEET DT03. 2004 SY
 - 9) CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A. 118 LF
 - 12) CONSTRUCT 6" SIDEWALK; MAG STD DTL 230. 2737 SF
 - 30) INSTALL THICKENED EDGE OF PAVEMENT PER MAG STD DTL 201 TYPE "A", D=18". 464 LF
 - 38) INSTALL STREET SIGN POST; PER COB DTL 65120. 1 EA
 - 64) CONSTRUCT 6" MOUNTABLE CURB & GUTTER, PER MAG STD DTL 220-2, TYPE E. 20 LF
 - 65) CONSTRUCT 2" CURB TRANSITION TYPE "E" TO TYPE "A" PER MAG STD DTL 220-2. 2 EA
 - 68) CONSTRUCT 9" THICK CLASS 'A' CONCRETE ON MAINTENANCE ACCESS RAMP. 120 SF
 - 69) INSTALL 6" DIA. COLLAPSIBLE LOCKING BOLLARD PER DETAIL ON DT04. 42" HEIGHT. 4 EA
 - 70) CONSTRUCT 20' WIDE, 9" THICK CLASS 'A' CONCRETE ACCESS RAMP. SLOPE OF RAMP TO BE 10:1 MAX. 179 SF
 - 71) INSTALL 20' WIDE ALL-WEATHER ACCESS ROAD, 6" THICK STABILIZED D.G. SLOPE OF RAMP TO BE 10:1 MAX. 103 SF



TERAVALIS PARKWAY



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.



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

KEYMAP N.T.S.

Call at least two full working days before you begin excavation
ARIZONA 311
Arizona Blue State, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-6348)
In Maricopa County: (602) 263-1100

FLOREO AT TERAVALIS JOHNSON & TERAVALIS PAVING PLAN PHASE 2

ENGINEER INFORMATION		SUBMITTAL: 1ST SUBMITTAL
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: ENG-XX-XXXX COB PERMIT #
AS-BUILT SEAL	DESIGN SEAL	
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE -----	
PROJECT NUMBER 1175	SHEET NUMBER PV04	SHT.11 OF 14

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.

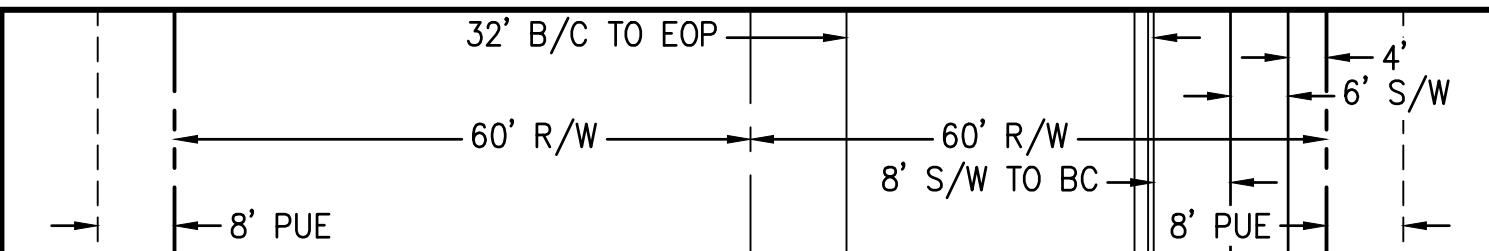
CURVE TABLE			
CURVE #	RADIUS	DELTA	LENGTH
C1	1800.00'	13°12'36"	415.00'
C2	1800.00'	19°57'34"	627.04'
C3	1300.00'	7°19'46"	166.30'
C4	9000.00'	0°20'51"	54.59'
C6	30.00'	88°23'20"	46.28'
C7	30.00'	88°22'39"	46.27'

LINE TABLE		
LINE #	DIRECTION	LENGTH
L1	N09°54'43"E	550.03'
L2	N86°42'07"E	94.76'
L3	N08°54'56"E	149.91'

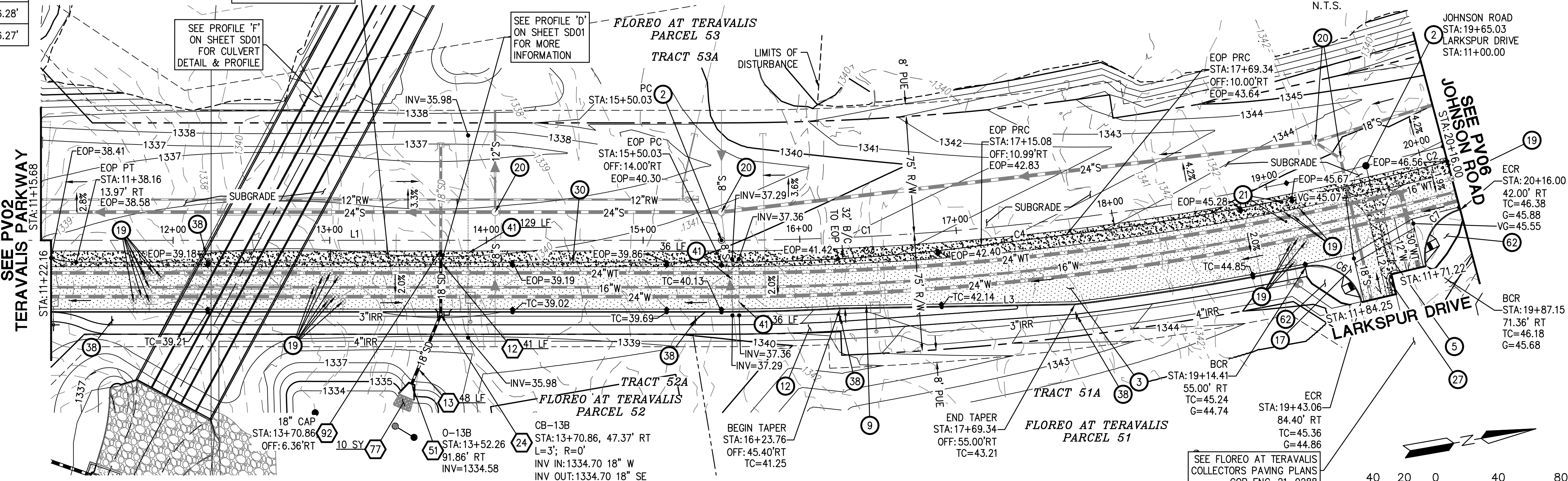
DG ACCESS ROAD TO BE INSTALLED WITH PHASE 1. DG ACCESS ROAD SHALL BE REMOVED PRIOR TO PHASE 2 CONSTRUCTION.

STORM DRAIN CONSTRUCTION NOTES

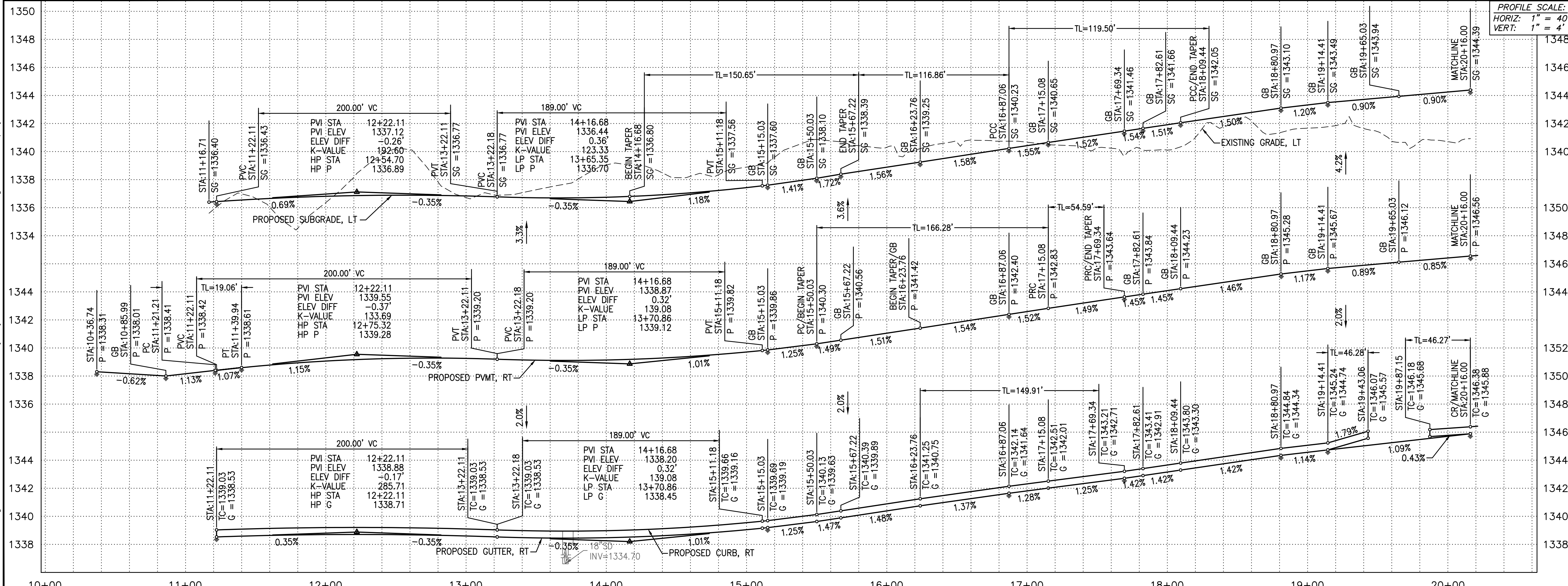
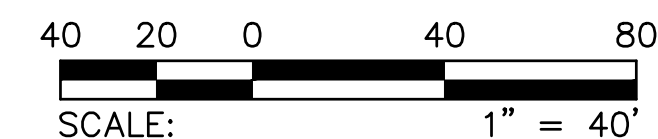
- 12 INSTALL 18" RGRCP STORM DRAIN, CLASS V 41 LF
- 13 INSTALL 18" RGRCP STORM DRAIN, CLASS IV 48 LF
- 24 CONSTRUCT CATCH BASIN PER COB DTL B-510A & B510B; SIZE PER PLAN 1 EA
- 51 CONSTRUCT CONCRETE OUTLET HEADWALL PER COB STD DTL B-5120 WITH TRASH RACK PER COB STD DTL B-508 AND HANDRAIL PER COB STD B-110 1 EA
- 77 PLACE LOOSE RIP-RAP D50=6", THICKNESS 12" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP-RAP DETAIL ON DT03. 10 SY
- 92 INSTALL TEMPORARY PIPE PLUG, SIZE AS NOTED. 1 EA



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



JOHNSON ROAD



- PAVING CONSTRUCTION NOTES**
- 2 INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'. 2 EA
 - 3 INSTALL PAVEMENT 6" AC (2" OF A12.5MM ARTERIAL SUPERPAVE ON 4" OF A19.0MM ARTERIAL SUPERPAVE) OVER 12" ABC. SEE TYPICAL SECTION ON SHEET DT03. 3387 SY
 - 5 INSTALL PAVEMENT 3" OF R12.5MM RESIDENTIAL MIX AC OVER 8" ABC. SEE TYPICAL STREET SECTION ON SHEET DT03. 111 SY
 - 9 CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A. 802 LF
 - 12 CONSTRUCT 6" SIDEWALK; MAG STD DTL 230. 4863 SF
 - 17 CONSTRUCT 6" CONCRETE VALLEY GUTTER & APRON; MAG STD DTL 240 WITH FIBER MESH. 669 SF
 - 19 ADJUST WATER VALVE ADJUSTMENT PER MAG DTL 391-2. 22 EA
 - 20 ADJUST MANHOLE FRAME & COVER PER MAG STD DTL 422 AND COB DTL 41260. 4 EA
 - 21 INSTALL FIRE HYDRANT PAVEMENT MARKER; PER COB DTL 31440. 2 EA
 - 27 CONSTRUCT 6" VERTICAL CURB & GUTTER; MAG STD DTL 220-1-A, WITH DEPRESSED LIP. 13 LF
 - 30 INSTALL THICKENED EDGE OF PAVEMENT PER MAG STD DTL 201 TYPE 'A', D=18". 897 LF
 - 38 INSTALL STREET SIGN POST; PER COB DTL 65120. 5 EA
 - 41 INSTALL 6" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS. 201 LF
 - 62 CONSTRUCT DIRECTIONAL SIDEWALK RAMP PER COB STD DTL 63240. MODIFIED WITH SINGLE RAMP. 2 EA

KEYMAP N.T.S.

FLOREO AT TERAVALIS JOHNSON & TERAVALIS PAVING PLAN PHASE 2

ENGINEER INFORMATION

HILGARTWILSON

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL

DESIGN SEAL

69427 JOSHUA ROBINSON

PROJ: 1175

SHEET NUMBER: PV05

SHT. 12 OF 14

ORIGINAL PLAN DATE: Feb-23

LATEST REVISION DATE: -----

PROJECT NUMBER: 1175

SHEET NUMBER: PV05

SHT. 12 OF 14

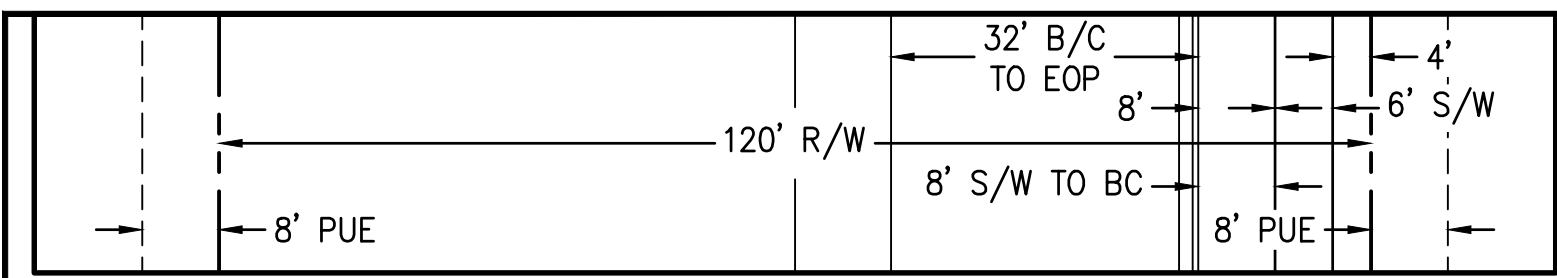
COB PLAN TRACKING #

ENG-XX-XXXX

COB PERMIT #

1ST SUBMITTAL

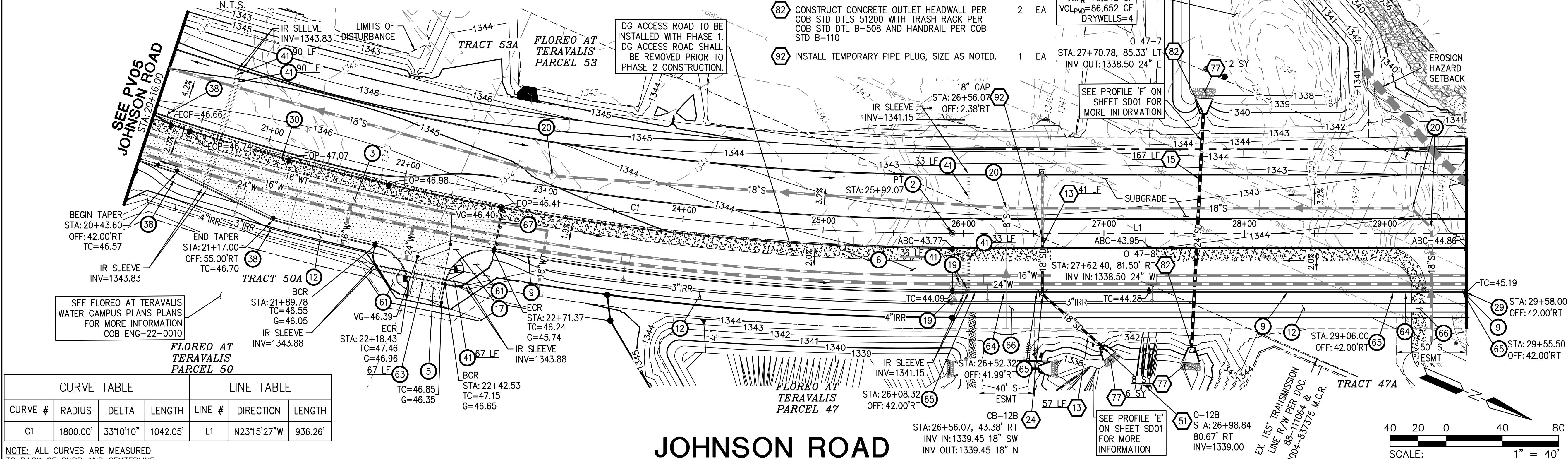
Copyright, Hilgartwilson - This plan document set is the sole property of Hilgartwilson. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Hilgartwilson employees.



- STORM DRAIN CONSTRUCTION NOTES**
- 13 INSTALL 18" RGRCP STORM DRAIN, CLASS IV 98 LF
 - 15 INSTALL 24" RGRCP STORM DRAIN, CLASS IV 167 LF
 - 24 CONSTRUCT CATCH BASIN PER COB DTL B-510A & B510B; SIZE PER PLAN 1 EA
 - 51 CONSTRUCT CONCRETE OUTLET HEADWALL PER COB STD DTL B-51200 WITH TRASH RACK PER COB STD DTL B-508 AND HANDRAIL PER COB STD B-110 1 EA

- 71 PLACE LOOSE RIP-RAP D50=6", THICKNESS 24" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP-RAP DETAIL ON DT04. 187 SY
- 77 PLACE LOOSE RIP-RAP D50=6", THICKNESS 12" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP-RAP DETAIL ON DT03. 26 SY
- 82 CONSTRUCT CONCRETE OUTLET HEADWALL PER COB STD DTL B-51200 WITH TRASH RACK PER COB STD DTL B-508 AND HANDRAIL PER COB STD B-110 2 EA
- 92 INSTALL TEMPORARY PIPE PLUG, SIZE AS NOTED. 1 EA

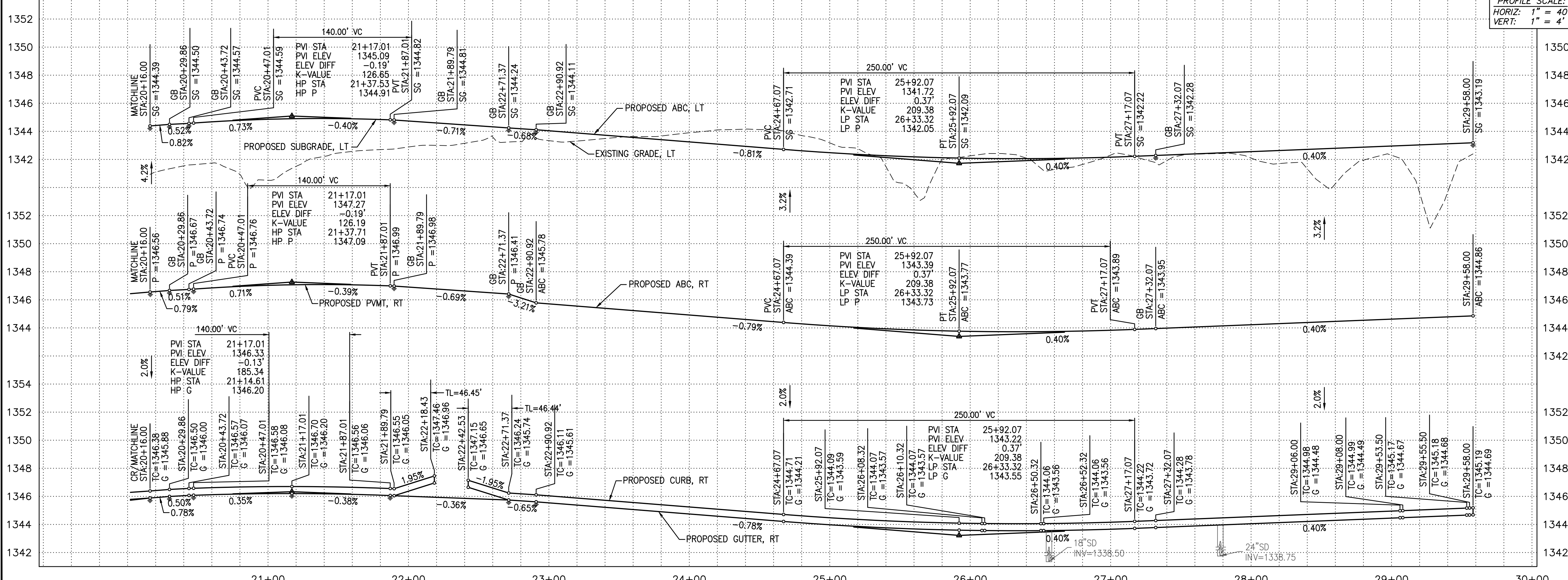
TYPICAL STREET DIMENSIONS - JOHNSON ROAD (INTERIM BUILDOUT)
 DESIGN SPEED = 55 MPH
 UNLESS NOTED OTHERWISE
 LOOKING NORTH



CURVE TABLE			LINE TABLE			
CURVE #	RADIUS	DELTA	LENGTH	LINE #	DIRECTION	LENGTH
C1	1800.00'	33°10'10"	1042.05'	L1	N23°15'27"W	936.26'

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

JOHNSON ROAD



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

- PAVING CONSTRUCTION NOTES**
- 2 INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'. 1 EA
 - 3 INSTALL PAVEMENT 6" AC (2" OF A12.5MM ARTERIAL SUPERPAVE ON 4" OF A19.0MM ARTERIAL SUPERPAVE) OVER 12" ABC. SEE TYPICAL SECTION ON SHEET DT03. 1085 SY
 - 5 INSTALL PAVEMENT 3" OF R12.5MM RESIDENTIAL MIX AC OVER 8" ABC. SEE TYPICAL STREET SECTION ON SHEET DT03. 75 SY
 - 6 INSTALL 12" ABC. SEE TYPICAL SECTION ON SHEET DT03. 2305 SY
 - 9 CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A. 258 LF
 - 12 CONSTRUCT 6" SIDEWALK; MAG STD DTL 230. 3735 SF
 - 17 CONSTRUCT 6" CONCRETE VALLEY GUTTER & APRON; MAG STD DTL 240 WITH FIBER MESH. 557 SF
 - 19 ADJUST WATER VALVE ADJUSTMENT PER MAG DTL 391-2. 4 EA
 - 20 ADJUST MANHOLE FRAME & COVER PER MAG STD DTL 422 AND COB DTL 41260. 4 EA
 - 29 CONSTRUCT TYPICAL CURB TERMINATION PER MAG STD DTL 222. 1 EA
 - 30 INSTALL THICKENED EDGE OF PAVEMENT PER MAG STD DTL 201 TYPE 'A', D=18". 257 LF
 - 38 INSTALL STREET SIGN POST; PER COB DTL 65120. 3 EA
 - 41 INSTALL 6" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS. 349 LF
 - 61 CONSTRUCT DUAL SIDEWALK CURB RAMP; PER MAG STD DTL 237-1. 2 EA
 - 63 INSTALL 8" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS. 67 LF
 - 64 CONSTRUCT 6" MOUNTABLE CURB & GUTTER, PER MAG STD DTL 220-2, TYPE E. 85 LF
 - 65 CONSTRUCT 2" CURB TRANSITION TYPE "E" TO TYPE "A" PER MAG STD DTL 220-2. 4 EA
 - 66 INSTALL CONCRETE PAVEMENT, CLASS A, 9" THICK FOR ACCESS RAMP LANDING. 540 LF
 - 67 INSTALL BARRICADE; MAG STD DTL 130-A. 27 LF

KEYMAP
 N.T.S.

Call at least two full working days before you begin excavation
 ARIZONA 311
 Dial 9-1-1 or 1-800-STAKE-IT (782-6348)
 In Maricopa County (602) 263-1100

FLOREO AT TERAVALIS JOHNSON & TERAVALIS PAVING PLAN PHASE 2

ENGINEER INFORMATION

HILGARTWILSON

COB PERMITTING APPROVED SEAL
 COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL
 DESIGN SEAL

ORIGINAL PLAN DATE: Feb-23
 LATEST REVISION DATE: _____

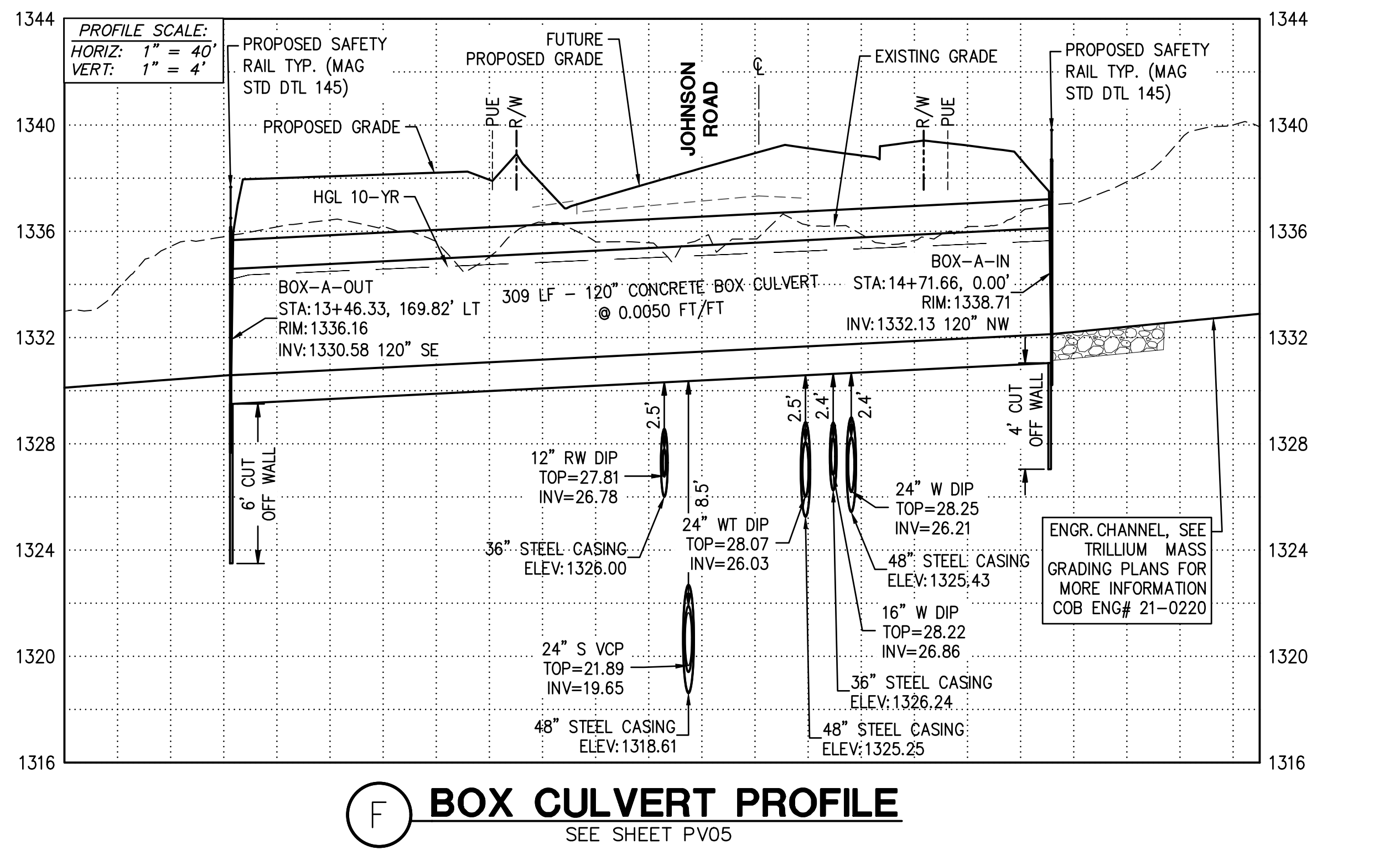
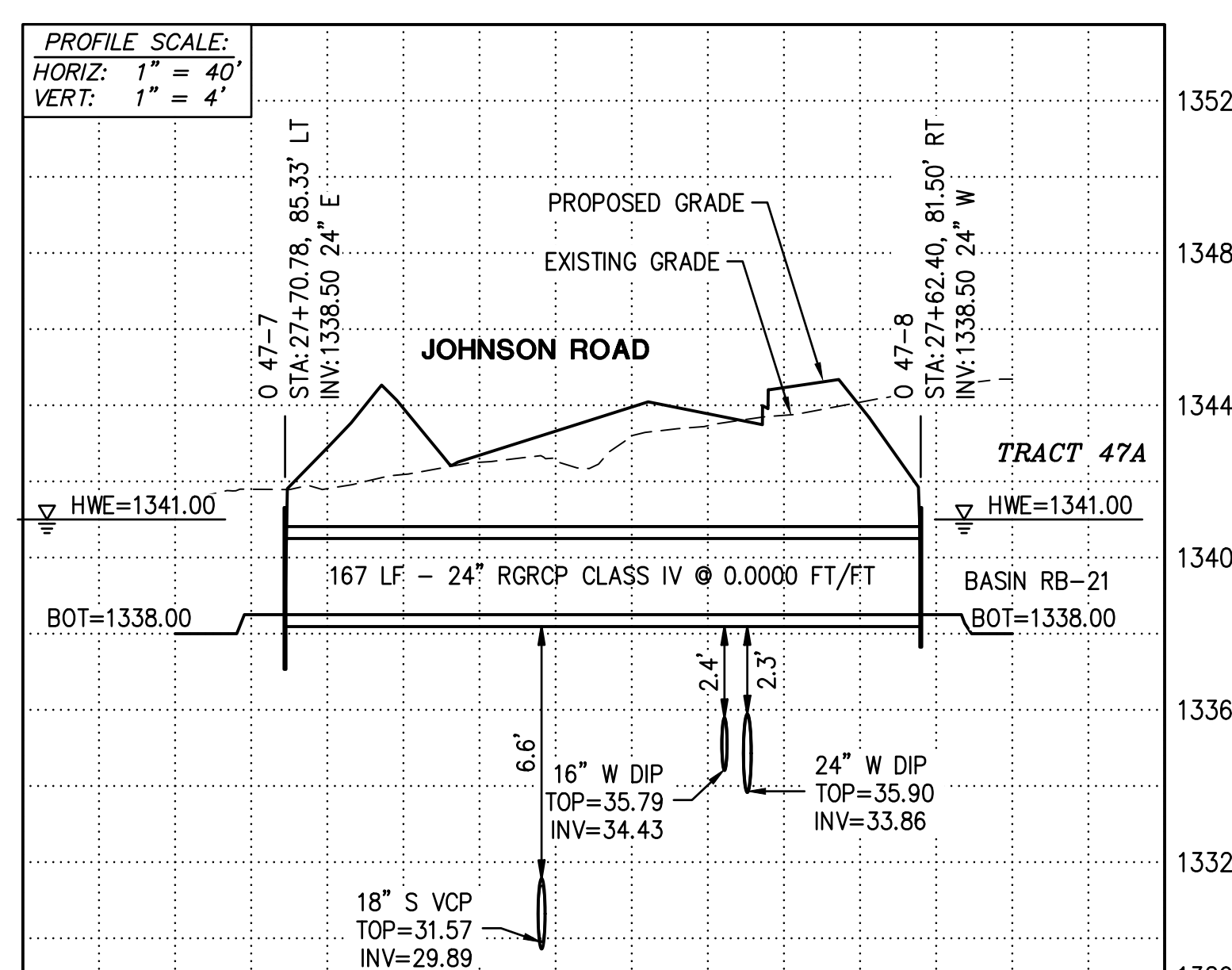
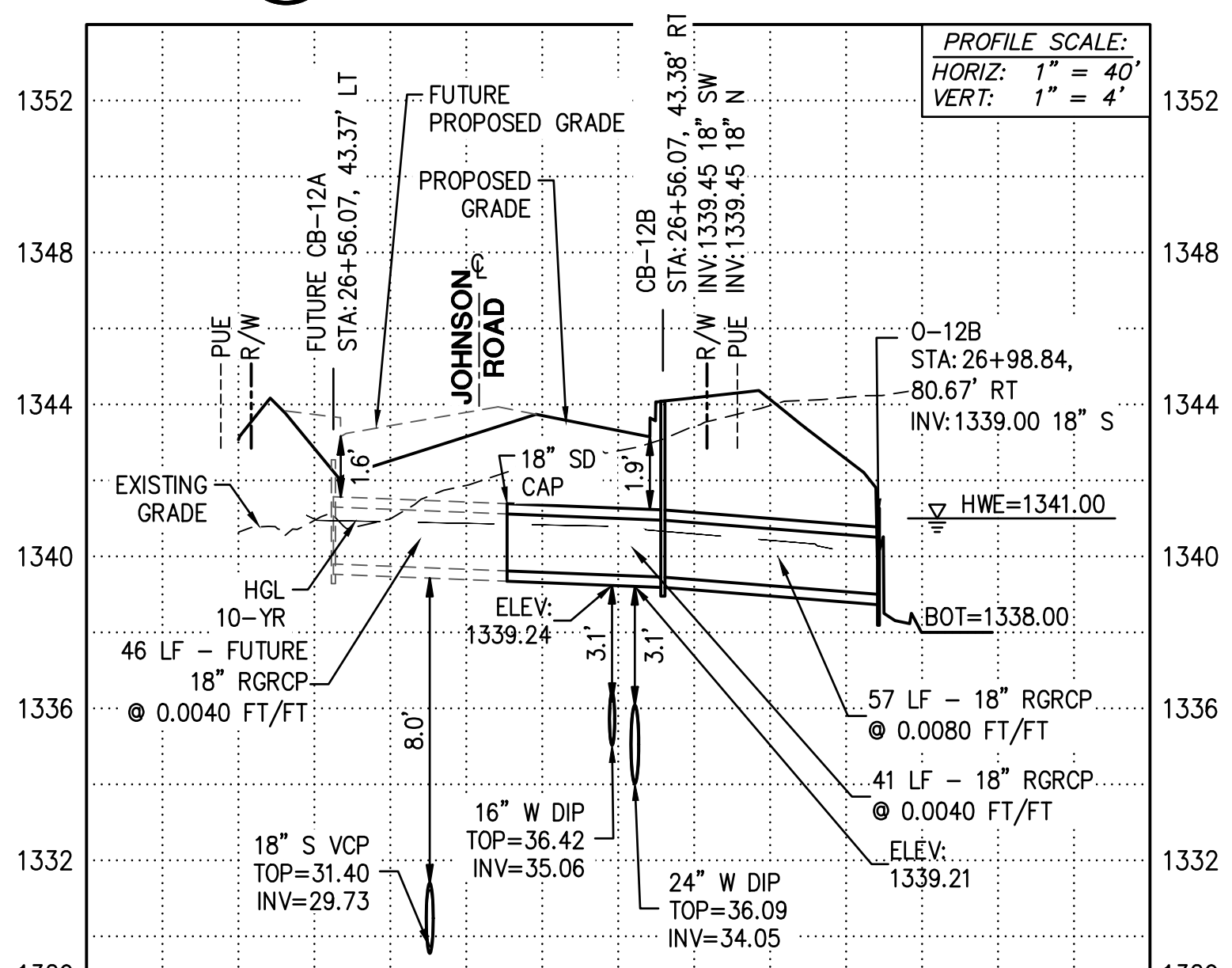
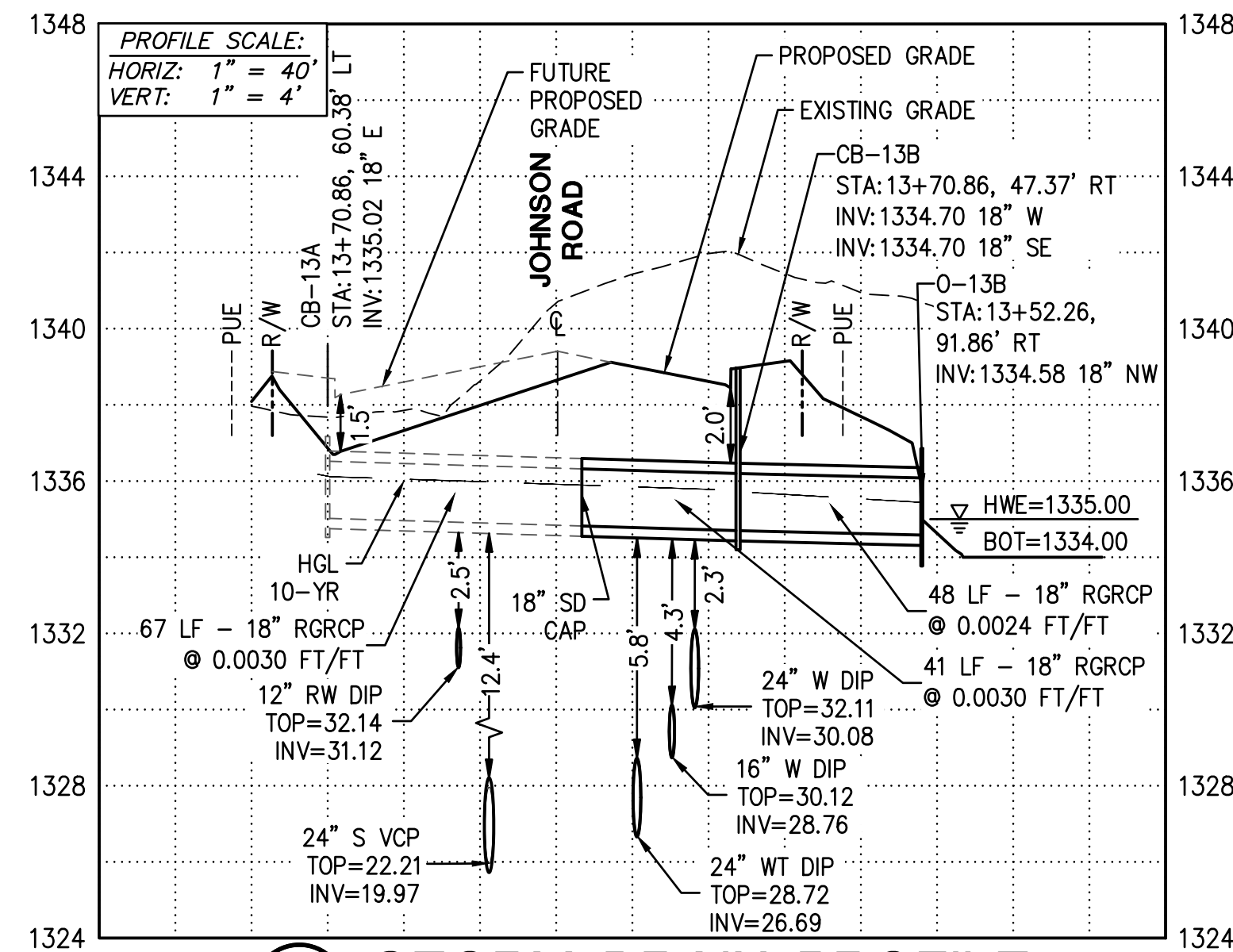
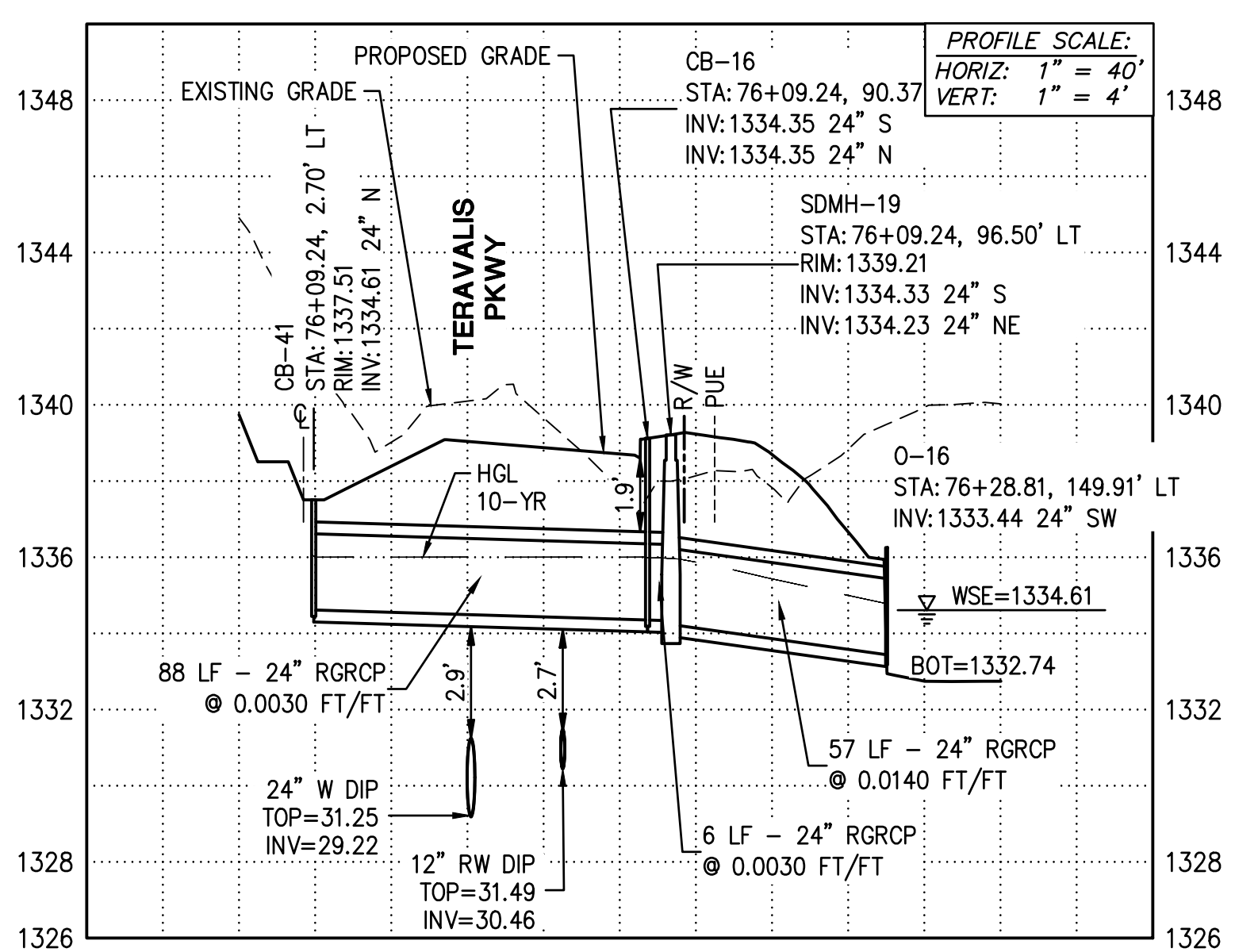
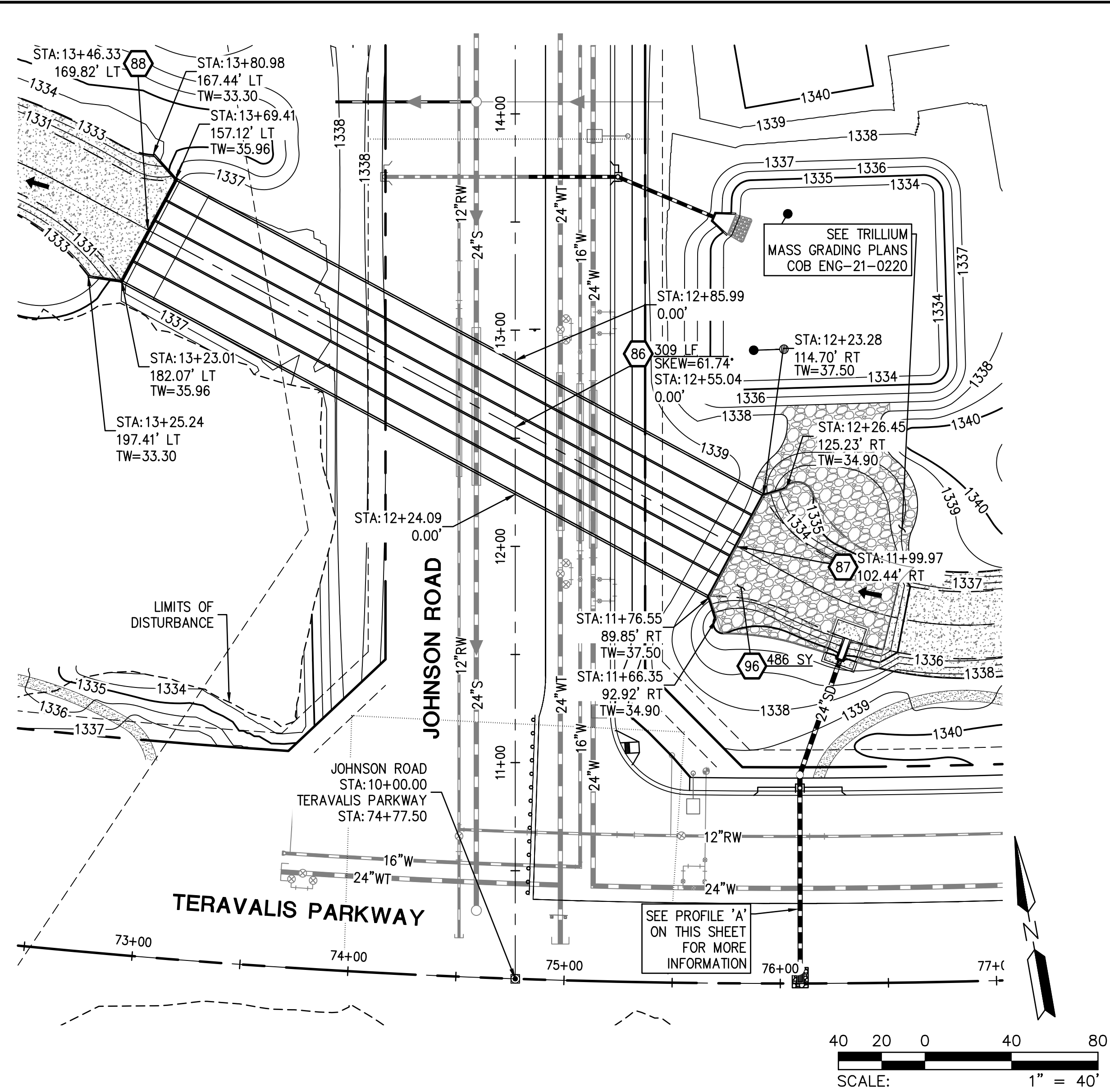
PROJECT NUMBER: 1175
 SHEET NUMBER: PV06
 SHT. 13 OF 14

1ST SUBMITTAL

COB PLAN TRACKING # ENG-XX-XXXX
 COB PERMIT # _____

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.



STORM DRAIN CONSTRUCTION NOTES

- 86 CONSTRUCT 5 BARREL 10' X 4' BOX CULVERT SEE DETAILS ON SHEETS DT05 & DT06 SPECS & ADOT STD. DTL. SD 6.05. 309 LF
- 87 CONSTRUCT INLET WING PER ADOT STD DTL SD 6.08, (6:1 SLOPE ON WING WALLS) SEE DETAILS ON SHEETS DT05 & DT06, SAFETY RAIL PER MAG STD. DTL. 145. 1 EA
- 88 CONSTRUCT OUTLET WING PER ADOT STD DTL SD 6.08, (6:1 SLOPE ON WING WALLS) SEE DETAILS ON SHEET DT05 & DT06, SAFETY RAIL PER MAG STD. DTL. 145. 1 EA
- 96 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, COLOR - PALOMINO GOLD, SPECIFIC WEIGHT = 165 lb/ft³. GRADATION PER TABLE 6.4 OF 2013 DRAINAGE DESIGN MANUAL FOR MARICOPA COUNTY, ARIZONA (HYDRAULICS). 486 SY

PLAN NAME
FLOREO AT TERAVALIS JOHNSON & TERAVALIS PAVING PLAN PH 2 STORM DRAIN PROFILES

ENGINEER INFORMATION		SUBMITTAL: 1ST SUBMITTAL
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL: ENG-XX-XXXX COB PERMIT #
AS-BUILT SEAL	DESIGN SEAL	
ORIGINAL PLAN DATE Feb-23	LATEST REVISION DATE ----	
PROJECT NUMBER 1175	SHEET NUMBER SD01	SHT.14 OF 15

