

BASIS OF BEARINGS

THE BASIS OF BEARING FOR THIS PROJECT IS THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 9, T-12-S, R-13-E PER RECORD OF SURVEY RECORDED IN BOOK 75 AT PAGE 99. BEARING = N 89°56'53" W.

BASIS OF ELEVATION

BASIS OF ELEVATION: DESIGNATION LAMB 2N PID UCD0715 CHISELED "X" IS LOCATED ON THE NORTHEAST CORNER OF A CONCRETE PAD FOR A 5.5 FOOT TALL US WEST PEDESTAL APPROXIMATELY 65.5 FEET SOUTH OF LAMBERT LANE AND 96 FEET WEST OF THE CENTERLINE OF SHANNON ROAD. ELEVATION = 2579.09 FEET NAVD 88 DATUM.

BENCHMARK #1

FOUND 2 1/2" ALUMINUM CAP SURVEY MONUMENT AT THE INTERSECTION OF NARANJA DRIVE AND LA CHOLLA BOULEVARD. SAID ELEVATION BEING 2696.18 (NAVD 88)

BENCHMARK #2

IS A BRASS CAP SURVEY MONUMENT STAMPED RLS 36235 BEING THE SOUTH QUARTER CORNER OF SECTION 4, SAID ELEVATION BEING 2685.19 (NAVD 88)

ENGINEER'S STANDARD DETAILS

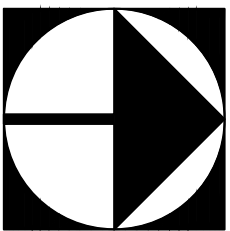
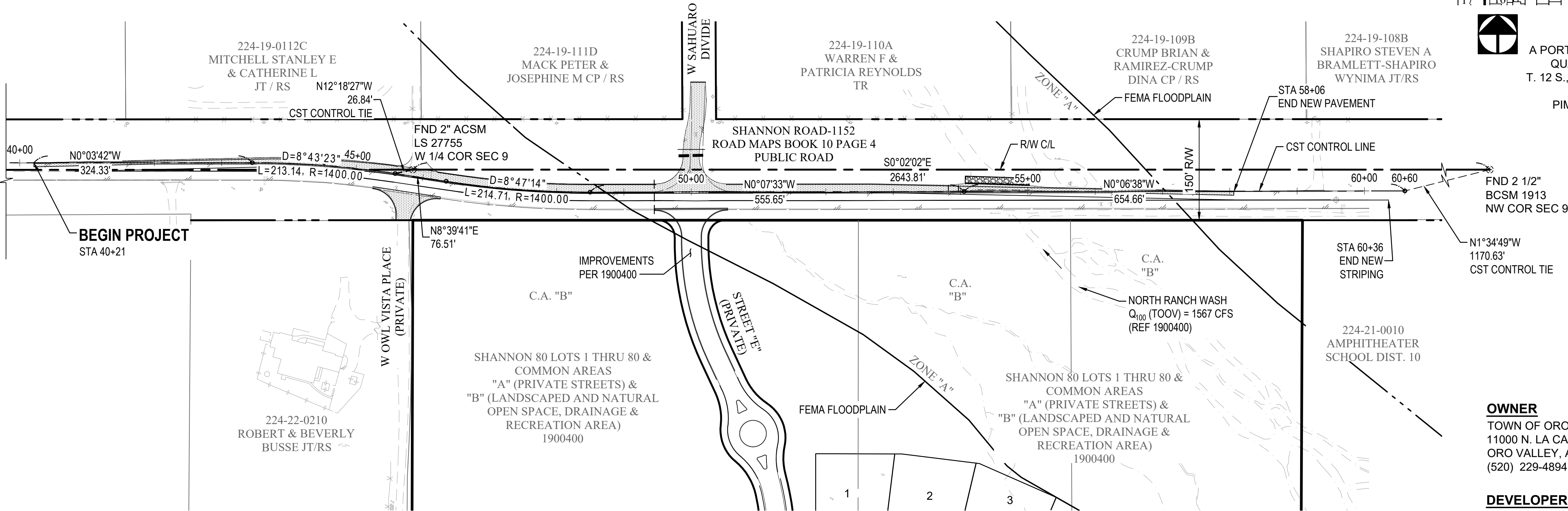
DISCLAIMER:

COMPLYING WITH THE ARIZONA STATE BOARD OF TECHNICAL REGISTRATION'S SUBSTANTIVE POLICY STATEMENT REGARDING SEALING OF STANDARD DETAILS, THE STANDARD DETAILS USED IN THE DESIGN OF THIS PROJECT HAVE BEEN FORMALLY ADOPTED BY THE AGENCIES THAT PREPARED THEM. IN VIEW OF THEIR LONG HISTORY OF USE, APPLICABILITY, AND/OR SOUNDNESS THE ENGINEER ACCEPTS THEIR USE FOR THIS PROJECT AND FINDS NO NEED FOR AN ALTERNATION.

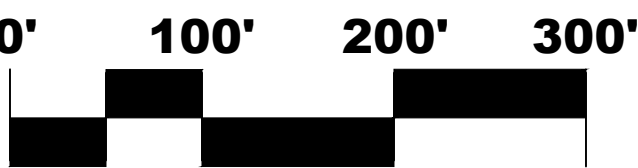
ABBREVIATIONS

AB	AGGREGATE BASE	BCR	BEGINNING OF CURB RETURN	PRC	POINT OF REVERSE CURVATURE
AC	ASPHALTIC CONCRETE	ECR	END OF CURB RETURN	PSI	POUNDS PER SQUARE INCH
AP	ANGLE POINT	GB	GRADE BREAK	PVC	POLYVINYL CHLORIDE
APPROX	APPROXIMATE OR APPROXIMATELY	HP	HIGH POINT	R	RADIUS
AR-AC	ASPHALT RUBBER-ASPHALTIC CONCRETE	HT or H	HEIGHT	R/W	RIGHT OF WAY
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	L	LENGTH	RCP	REINFORCED CONCRETE PIPE
BCSM	BRASS CAP SURVEY MONUMENT	INV	INVERT	REINF	REINFORCED
BVC	BEGIN VERTICAL CURVE	SWR	SANITARY SEWER	RT	RIGHT
BW	BOTTOM OF WALL	TC	TOP OF CURB	RWRD	REGIONAL WASTEWATER RECLAMATION DEPARTMENT
C.A.	COMMON AREA	G	GUTTER	S	SLOPE OR SOUTH
C&G	CURB AND GUTTER	CL, C/L	CENTERLINE	SDMH	STORM DRAIN MANHOLE
CFS	CUBIC FEET PER SECOND	DIP	DUCTILE IRON PIPE	SF	SQUARE FEET
CMP	CORRUGATED METAL PIPE	WTR	WATER	SHT	SHEET
CONC	CONCRETE	N	NORTHING OR NORTH	SMH	SANITARY SEWER MANHOLE
CP	CONCENTRATION POINT	E	EASTING OR EAST	SRP	SPIRAL RIBBED PIPE
CST	CONSTRUCTION	LF	LINEAR FEET	ST	STREET
CTRL	CONTROL	LP	LOW POINT	STA	STATION
D	DEFLECTION	LT	LEFT	STD	STANDARD
DG	DECOMPOSED GRANITE	MAX	MAXIMUM	SVT	SIGHT VISIBLTY TRIANGLE
DKT	DOCKET	MH	MANHOLE	S/W	SIDEWALK
DTL	DETAIL	MIN	MINIMUM	THK	THICK/THICKNESS
EG	EXISTING GRADE	P.A.D.	PLANNED AREA DEVELOPMENT	TS	TRAFFIC SIGNAL
ELEC	ELECTRIC OR ELECTRICAL	PAG	PIMA ASSOCIATION OF GOVERNMENTS	TW	TOP OF WALL
ELEV	ELEVATION	PC	POINT OF CURVATURE	TYP	TYPICAL
EOP	EDGE OF PAVEMENT	PCC	POINT OF COMPOUND CURVATURE	W	WIDTH, WEST OR WATERLINE
ESMT	EASEMENT	PCC	PORTLAND CEMENT CONCRETE	W/	WITH
EVC	END VERTICAL CURVE	PG	PAGE	WSEL	WATER SURFACE ELEVATION
EX or EXIST	EXISTING	PI	POINT OF INTERSECTION	WWF	WELDED WIRE FABRIC
FC	FACE OF CURB	PROP	PROPOSED		
FND	FOUND	PT	POINT OF TANGENCY		
FFE	FINISHED FLOOR ELEVATION	PVMT	PAVEMENT		
FG	FINAL GRADE				
FPE	FINISHED PAD ELEVATION				

OFF-SITE IMPROVEMENT PLAN FOR SHANNON ROAD STA 40+21 TO STA 60+36 1901572



PROJECT OVERVIEW



LEGEND

	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	CONSTRUCTION CONTROL LINE
	PROPERTY BOUNDARY
	RIGHT-OF-WAY
	RIGHT-OF-WAY CENTERLINE
	EXISTING PAVEMENT
	EXISTING FENCE
	ASPHALTIC CONCRETE (AC) PAVEMENT
	SHEET MATCH LINE
	DEMOLITION & REMOVAL
	GRADING LIMITS
	CONCRETE HEADER
	EXISTING SIGNS
	SILT FENCE
	FEMA FLOODPLAIN
	CONCENTRATION POINT
	HYDROLOGIC CROSS SECTION
	FLOW DIRECTION

APPROVED

TOWN OF ORO VALLEY, TOWN ENGINEER DATE

PROJ#: 1901572

RELATED CASE # 1900400, OV1701617 & OV1701072



LOCATION MAP

A PORTION OF THE NORTHWEST QUARTER OF SECTION 9, T. 12 S., R. 13 E., G&SRB, TOWN OF ORO VALLEY, PIMA COUNTY, ARIZONA SCALE: 3"=1 MILE

OWNER

TOWN OF ORO VALLEY 11000 N. LA CANADA DR. ORO VALLEY, AZ 85737 (520) 229-4894

DEVELOPER

SHANNON 80, LLC ATTN: DAVID WILLIAMSON 3037 W. INA ROAD TUCSON, AZ 85741 (520) 404-7681 DAVIDW@FAIRFIELDHOMES.NET

ENGINEER

THE WLB GROUP, INC. 4444 E. BROADWAY BLVD. TUCSON, AZ. 85711 (520) 881-7480 ATTN: BILL WALKER, PE bwalker@wlbgroup.com

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- GENERAL NOTES & TYPICAL SECTIONS
- EXISTING CONDITIONS & DEMOLITION PLAN
- PAVING PLAN & PROFILE
- PAVING PLAN & PROFILE
- SIGNING & MARKING PLAN



Engineering Planning Surveying Landscape Architecture Urban Design Offices located in Tucson, Phoenix, & Flagstaff, AZ, and Las Vegas, NV 4444 East Broadway Tucson, AZ 85711 (520) 881-7480



JOB NO. 116028-A002

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COVER SHEET

SCALES

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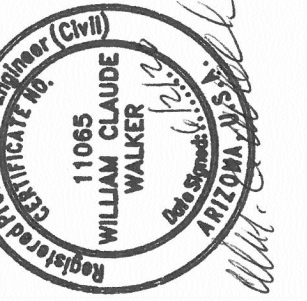
SHEET 1 OF 6

TOWN OF ORO VALLEY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION

DATE	05/20/20
DESIGNED	DWD
DRAWN	GUG
CHECKED	WLB
PROJ. ENGR.	WLB

IMPROVEMENT PLANS FOR SHANNON ROAD ORO VALLEY, ARIZONA

NO.	REVISION	DESCRIPTION	DIV/SECT ENGR.	DATE



11000 N. La Canada Dr. Oro Valley, Az. 85737 520-229-4800



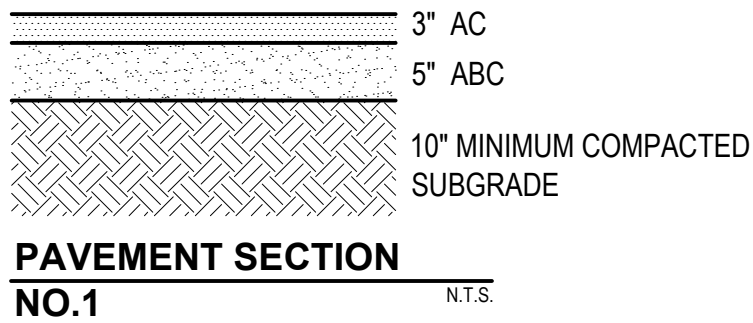
GENERAL EARTHWORK AND PAVING NOTES:

- ALL MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH PIMA ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (P.A.G. SSPI), EDITION OF 2015, EXCEPT AS MODIFIED HEREBY.
- ALL CONSTRUCTION AND TESTING METHODS SHALL BE IN CONFORMANCE WITH P.A.G. SSPI, EDITION OF 2015, EXCEPT AS MODIFIED HEREBY.
- EXCAVATION AND BACKFILL FOR STRUCTURES SHALL CONFORM TO P.A.G. SSPI, SECTION 203-5.
- EARTHWORK, EXCEPT AS MODIFIED BY THE SOILS REPORT OF RECORD, SHALL CONFORM TO P.A.G. SSPI SECTION 203.
- AGGREGATE BASE COURSE SHALL CONFORM TO P.A.G. SSPI, SECTION 303.
- ASPHALTIC CONCRETE SHALL CONFORM TO P.A.G. SSPI, SECTION 406, ASPHALTIC CONCRETE MIXTURE SPECIFICATIONS.
- ALL CONCRETE SHALL CONFORM TO P.A.G. SSPI, SECTION 1006, CLASS S, 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE SPECIFIED.
- A STAMPED SET OF APPROVED PLANS SHALL BE KEPT IN AN EASILY ACCESSIBLE LOCATION ON THE JOB SITE AT ALL TIMES OR DURING CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
- CONTRACTOR SHALL CALL BLUE STAKE (ARIZONA 811) TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION, A MINIMUM OF TWO (2) FULL WORKING DAYS PRIOR TO EXCAVATION.
- CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY GOVERNMENTAL AGENCIES.
- CONTRACTOR SHALL INSTALL STREET SIGNS IN ACCORDANCE WITH THE PIMA COUNTY DEPARTMENT OF TRANSPORTATION SIGNING MANUAL.
- PAVING CONTRACTOR SHALL ADJUST BOTH EXISTING AND NEW WATER VALVES, BOX COVERS, WATER METER BOXES, SANITARY SEWER MANHOLES AND CLEANOUT RINGS AND COVERS, TELEPHONE AND ELECTRIC MANHOLE RING AND COVERS TO THE NEW FINISHED GRADE. ALL WORK SHALL COMPLY WITH THE APPLICABLE UTILITY'S STANDARDS.
- UPON COMMENCEMENT OF WORK, TRAFFIC CONTROL DEVICES SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR IN CONFORMANCE WITH THE CONTRACTOR'S TRAFFIC CONTROL PLAN AS ACCEPTED BY THE TOWN OF ORO VALLEY UNTIL SUCH TIME AS THE WORK IS COMPLETED. ALL WARNING SIGNS, BARRICADES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ADOPTED BY THE STATE OF ARIZONA PURSUANT TO A.R.S. 28-650.
- IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION AND ARE BEYOND THE SCOPE OF THE DESIGN, THE ENGINEER SHALL SUBMIT THE NECESSARY REVISED OR SUPPLEMENTAL IMPROVEMENT PLANS FOR REVIEW AND APPROVAL BY THE TOWN OF ORO VALLEY ENGINEER'S OFFICE PRIOR TO SUCH REVISIONS/CHANGES BEING MADE IN THE FIELD.
- ALL STATIONING SHOWN ON PLAN AND PROFILES ARE ALONG CENTERLINE OF RIGHT OF WAY UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE AND MAINTENANCE OF EXISTING IMPROVEMENTS AND VEGETATION IN THE WORK AREA. PAVEMENT, CURBS, CART PATHS AND ANY OTHER EXISTING FEATURES DAMAGED DURING CONSTRUCTION ARE TO BE REPLACED BY THE CONTRACTOR. ANY UNDERGROUND PIPES, IRRIGATION LINES, IRRIGATION CONTROLS, DRAINS, STRUCTURES, OR OTHER EXISTING FEATURES NOT SHOWN ON THESE PLANS SHALL BE MOVED, ALTERED, OR REPAIRED BY THE CONTRACTOR WHEN ENCOUNTERED, AS DIRECTED BY THE ENGINEER AND IS A DEFINITE PART OF THIS PROJECT.
- THE CONTRACTOR SHALL GIVE FORTY-EIGHT (48) HOURS NOTICE WHEN THEY SHALL REQUIRE THE SERVICES OF THE ENGINEER OR ANY OTHER PERSON PROPERLY AUTHORIZED FOR SUCH PURPOSE FOR LAYING OUT ANY PORTION OF THE WORK. THEY SHALL ALSO DIG ALL STAKE HOLES NECESSARY TO GIVE LINE AND LEVELS AND SHALL PROVIDE ASSISTANCE CALLED FOR BY THE ENGINEER OR HIS ASSISTANTS UPON ANY PART OF THE WORK WHENEVER SO REQUESTED, AND SHALL PRESERVE ALL STAKES SET FOR THE LINES, LEVELS OR MEASUREMENTS OF THE WORK IN THEIR PROPER PLACES UNTIL AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ANY EXPENSE INCURRED IN REPLACING ANY STAKES WHICH THE CONTRACTOR OR THEIR SUBCONTRACTORS MAY HAVE FAILED TO PRESERVE SHALL BE CHARGED TO THE CONTRACTOR.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, HAUL AND APPLY ALL WATER REQUIRED FOR COMPACTION AND FOR THE CONTROL OF DUST FROM CONSTRUCTION ACTIVITY. THE COST THEREOF IS TO BE INCLUDED IN THE GRADING CONSTRUCTION PRICE. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AN AIR POLLUTION PERMIT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FULLY COMPLY WITH A.D.E.Q. STORMWATER POLLUTION PREVENTION PERMITS IN ACCORDANCE WITH THE REPORT AND POLLUTION PLANS PREPARED BY THE ENGINEER. THE COST THEREOF TO BE INCLUDED IN THE GRADING CONSTRUCTION PRICE.
- STREETS AND PARKING AREAS SHALL BE CONSTRUCTED TO WITHIN ±0.10 FEET OF FINISH SUBGRADE AS STAKED BY THE ENGINEER.
- A REPORT OF SOILS INVESTIGATION, INCLUDING RECOMMENDATIONS FOR GRADING PROCEDURE HAS BEEN PREPARED BY WRIGHT ENGINEERS DATED DECEMBER 2018, PROJECT NO. 182916. ALL EARTHWORK SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED IN SAID REPORT AND ANY AMENDMENTS MADE THERETO.
- THE SOILS ENGINEER SHALL OBSERVE, INSPECT AND TEST ALL CONSTRUCTION OPERATIONS, INCLUDING BUT NOT LIMITED TO: CLEARING, GRUBBING, SUBGRADE PREPARATION, STRUCTURAL, TRENCH EXCAVATION AND BACKFILL, MATERIAL TESTING, TOGETHER WITH PLACEMENT OF FILL. SAID ENGINEER SHALL CERTIFY IN WRITING, THAT ALL SOILS OPERATIONS AND MATERIALS USED FOR THIS DEVELOPMENT WERE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS AS SET FORTH IN THE GEOTECHNICAL INVESTIGATION OF RECORD AND ARE IN CONFORMANCE WITH THE ACCEPTED PLANS AND SPECIFICATIONS. CERTIFICATION, IN WRITING, IS TO BE RECEIVED BY THE TOWN OF ORO VALLEY PRIOR TO THE REQUEST FOR FINAL INSPECTION AND RELEASE OF ASSURANCES.
- GRADING BOUNDARIES SHALL BE CLEARLY MARKED, AND ALL WORK WILL BE CONFINED TO APPROVED PROJECT LIMITS AS SHOWN ON THESE PLANS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE SURVEYOR PROVIDING THE CONSTRUCTION LAYOUT TO VERIFY THE BENCHMARK AND COMPARE THE SITE CONDITIONS WITH THE PLANS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OBSERVED. SHOULD ANY BENCHMARK, GRADE OR DESIGN INDICATED ON THE PLANS BE SUSPECT, THE ENGINEER SHALL BE NOTIFIED OF SAID BENCHMARK, GRADE OR DESIGN PROBLEM AT LEAST TWENTY-FOUR HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN ON THE AFFECTED AREA.
- IT SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER(S), THEIR SUCCESSORS OR ASSIGNS, (AND/OR THEIR CONTRACTOR, THEIR SUCCESSORS OR ASSIGNS AS APPLICABLE) TO PURSUE ANY NEGOTIATIONS, OBTAIN ANY AGREEMENTS AND/OR PERMITS, ETC., FROM ALL NECESSARY OWNERS, PRIVATE AND/OR GOVERNMENTAL AGENCIES IN CHARGE OF PROPERTIES AND/OR RIGHTS-OF-WAY ADJACENT TO (OR NEIGHBORING) THIS PROJECT, THAT MAY BE REQUIRED TO DO ANY WORK (CONSTRUCTION, ACCESS, MODIFICATIONS, GRADING, DRAINAGE, STRUCTURES, ROADS, ETC.) ENCRDACHING OR AFFECTING - DIRECTLY OR INDIRECTLY - ON THESE ADJACENT PROPERTIES AND RIGHTS-OF-WAY IN ANY CONCEIVABLE MANNER, REGARDLESS OF WHETHER OR NOT THIS WORK IS SHOWN OR DESCRIBED ON THESE PLANS.

- THE TOWN OF ORO VALLEY WILL, UPON RECEIPT OF ALL NECESSARY CERTIFICATIONS AS OUTLINED ON THE IMPROVEMENT PLANS, PERFORM A FIELD REVIEW OF THE DEVELOPMENT. FIELD CONDITIONS, DESIGN OVERSIGHTS, ETC., MAY REQUIRE ADDITIONAL WORK AND/OR IMPROVEMENTS AS A RESULT OF SAID REVIEW.
- ALL WORK SHALL BE IN CONFORMANCE TO GRADING STANDARDS, CHAPTER 27-SECTION 27.9 OF THE ORO VALLEY ZONING CODE REVISED, YEAR 2005.
- THE PROFESSIONAL ENGINEER OF RECORD SHALL SUBMIT AS-BUILT RECORD DRAWINGS AND CERTIFY IN WRITING THAT ALL IMPROVEMENTS, WHETHER PRIVATE OR PUBLIC, HAVE BEEN CONSTRUCTED, PLACED, INSTALLED, ETC. IN SUBSTANTIAL CONFORMANCE WITH THE ACCEPTED PLANS FOR THIS DEVELOPMENT. CERTIFICATIONS IN WRITING AND THE AS-BUILT RECORD DRAWINGS ARE TO BE RECEIVED BY THE TOWN OF ORO VALLEY A MINIMUM OF TWO (2) WEEKS PRIOR TO THE REQUEST FOR CERTIFICATES OF OCCUPANCY AND/OR FINAL INSPECTION BY THE DEPARTMENT OF PUBLIC WORKS AND THE RELEASE OF ASSURANCES, EXCEPT FOR MODEL HOMES INTENDED TO BE USED FOR SALES PURPOSES. IF THE PROJECT IS PHASED THE ABOVE PERTAINS TO EACH PHASE.
- ALL EASEMENTS MUST BE ACQUIRED BY OWNER/BUILDER PRIOR TO CONSTRUCTION.
- A FLOODPLAIN USE PERMIT SHALL BE REQUIRED FOR IMPROVEMENTS IMPACTING A FEMA FLOODPLAIN.

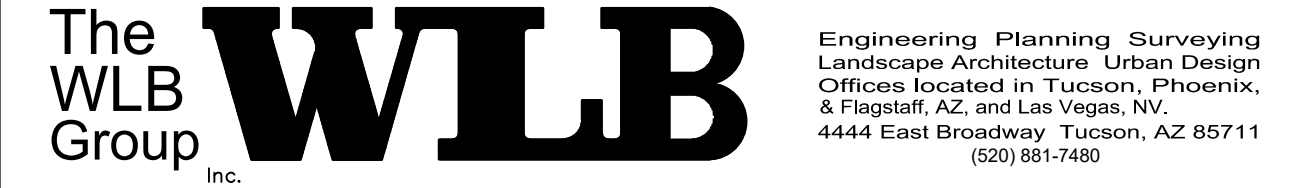
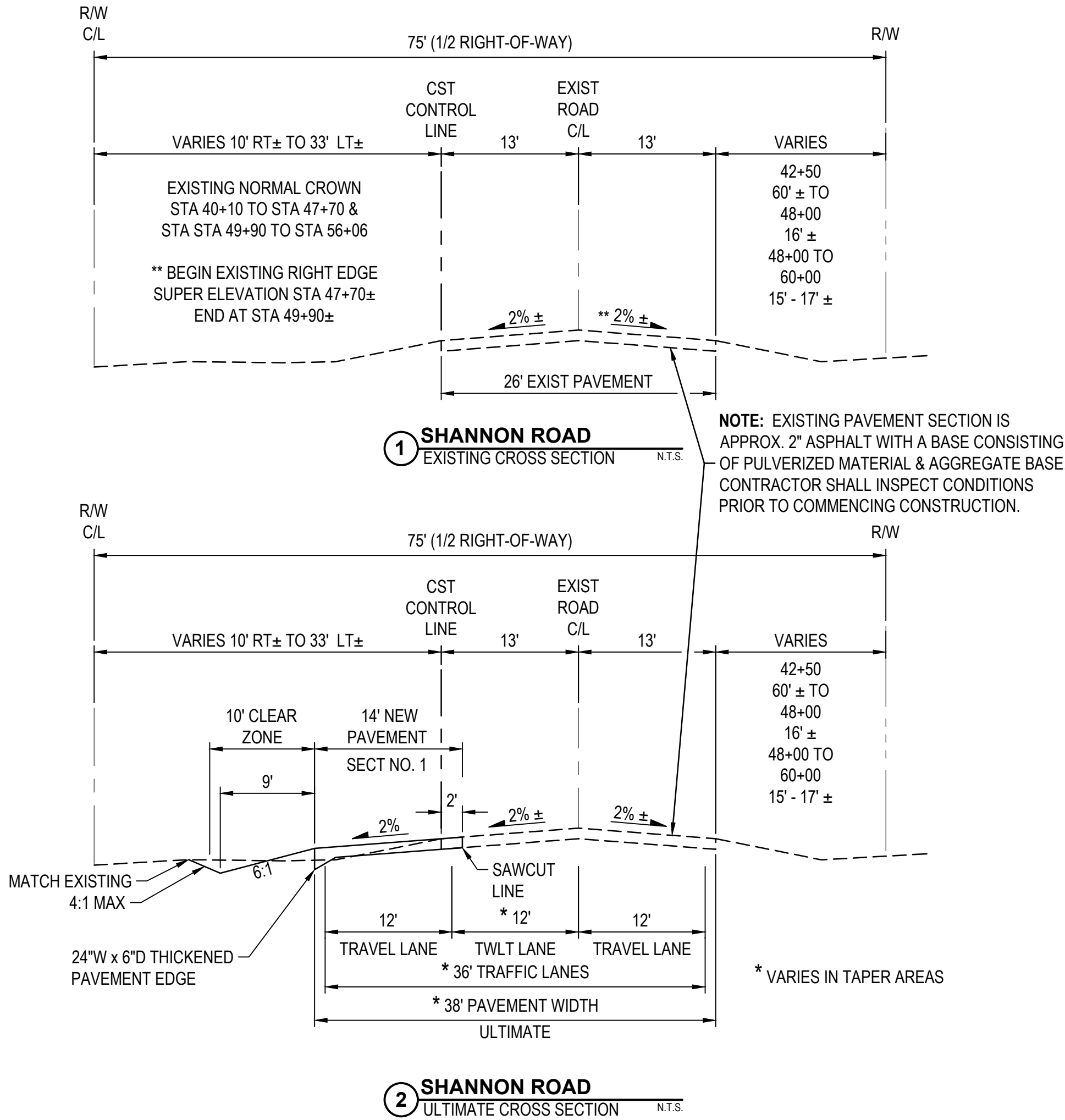
GENERAL PAVEMENT MARKING & STRIPING NOTES:

- ALL PAVEMENT MARKING MATERIALS, EQUIPMENT AND CONSTRUCTION SHALL CONFORM TO THE LATEST PIMA ASSOCIATION OF GOVERNMENTS (PAG) STANDARD SPECIFICATIONS (2015). ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN CONFORMANCE WITH THE PC/COT PAVEMENT MARKING DESIGN MANUAL, 2008 REVISION AND ANY UPDATE THERETO.
- THE PERMANENT PAVEMENT MARKINGS MAY BE MODIFIED AS DIRECTED BY THE TOWN ENGINEER OR DESIGNEE.
- THE POSTED SPEED LIMIT FOR SHANNON ROAD IS 45 MPH. THE DESIGN SPEED IS 50 MPH AND THE DESIGN VEHICLE IS WB-40.
- ALL LANE DIMENSIONS ARE FROM CENTER OF LANE LINE, CENTER OF DOUBLE LANE LINE. FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, DETAILS, AND STANDARDS WHEN INSTALLING PAVEMENT STRIPING, MARKINGS AND MARKERS.
- LONGITUDINAL STRIPING SHALL CONSIST OF WATER BASE TRAFFIC PAINT, 15 MILS (0.015") THICK, PLACED WITH AASHTO M 247-13 TYPE 1 GLASS BEADS HAVING AN ADHESION/MOISTURE PROOF COATING. REFLECTIVE BEADS SHALL BE PLACED AT A MINIMUM RATE OF 6 POUNDS PER GALLON.
- TRAFFIC PAINT FOR LONGITUDINAL STRIPING SHALL BE APPLIED ONCE AFTER PAVING AND AGAIN 30 DAYS LATER, OR AS OTHERWISE DIRECTED BY THE TOWN ENGINEER OR DESIGNEE. THE INITIAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS FOLLOWING COMPLETION OF THE FINAL PAVEMENT SURFACE OR AS DIRECTED BY THE TOWN ENGINEER OR DESIGNEE.
- TRAFFIC CONTROL DEVICES, AS NOTED ON THE ACCEPTED TRAFFIC CONTROL PLAN, SHALL BE IN PLACE FOR THE PERIOD BETWEEN THE START OF PAVING OPERATIONS AND INITIAL INSTALLATION OF PAVEMENT MARKINGS.
- TRANSVERSE STRIPING, ARROWS AND LETTERING SHALL CONSIST OF WATER BASE TRAFFIC PAINT, 15 MILS (0.015") THICK, PLACED WITH AASHTO M 247-13 TYPE 1 GLASS BEADS HAVING AN ADHESION/MOISTURE PROOF COATING. REFLECTIVE BEADS SHALL BE PLACED AT A MINIMUM RATE OF 6 POUNDS PER GALLON.
- TRAFFIC PAINT FOR TRANSVERSE STRIPING, ARROWS AND LETTERING SHALL BE APPLIED ONCE AFTER PAVING AND AGAIN 30 DAYS LATER, OR AS OTHERWISE DIRECTED BY THE TOWN ENGINEER OR DESIGNEE. THE INITIAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS FOLLOWING COMPLETION OF THE FINAL PAVEMENT SURFACE OR AS DIRECTED BY THE TOWN ENGINEER OF DESIGNEE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PAVEMENT MARKINGS ON FINAL SURFACE COURSE FOLLOWING CONTROL POINTS THAT HAVE BEEN SET. NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED. IN TANGENT SECTIONS OF A ROAD WHERE THE PAVEMENT MARKING PATTERN DOES NOT CHANGE, CONTROL POINTS CAN BE SET AT 200 FEET APART. THE LAYOUT AND INSPECTION OF ALL PAVEMENT MARKINGS SHALL BE APPROVED BY THE TOWN ENGINEER OR DESIGNEE PRIOR TO THE APPLICATION OF MATERIALS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE STRIPING IS OFFSET NO MORE THAN ONE FOOT CLEAR OF THE CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE TOWN ENGINEER OR DESIGNEE BY SWEEPING AND AIR-JET BLOWING IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE TEMPERATURE SHALL NOT BE LESS THAN 40 DEGREES FAHRENHEIT FOR THE PLACEMENT OF RPMS.
- ALL RAISED PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW. TYPE C PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED SO THAT THE CLEAR REFLECTIVE FACE OF EACH MARKER IS FACING APPROACHING TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
- AT INTERSECTION APPROACHES ON ROADWAYS WITH MEDIANS, TYPE C RPMS SHALL BE PLACED AS PER PC/COT STANDARDS OR AS DIRECTED BY THE TOWN ENGINEER OR DESIGNEE.
- ALL REMOVAL OF EXISTING PAVEMENT MARKING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTION 701 OF THE PAG STANDARDS AND SPECIFICATIONS. PAINTING OVER EXISTING STRIPING DOES NOT CONSTITUTE APPROVED STRIPING OBLITERATION.
- THE ENGINEER OF RECORD SHALL BE REQUIRED TO PRODUCE AS-BUILT STRIPING PLANS, USING INFORMATION FROM THE CONTRACTOR, WITHIN 90 DAYS OF STRIPING COMPLETION.
- BLUE RAISED PAVEMENT MARKERS SHALL BE PLACED ADJACENT TO FIRE HYDRANTS AS SHOWN ON SHEET 7-1 OF THE PC/COT PAVEMENT MARKING DESIGN MANUAL.
- FOR ALL CONSTRUCTION, ALL PAVEMENT MARKINGS AND SIGNING SHALL BE INSTALLED AND SHALL BE PAID FOR BY THE PROJECT OWNER/DEVELOPER.
- FINAL INSPECTION/ACCEPTANCE OF PAVEMENT MARKINGS SHALL BE PERFORMED BY THE TOWN ENGINEER OR DESIGNEE.
- THE PC/COT PAVEMENT MARKING DESIGN MANUAL IS AVAILABLE ONLINE AT: <http://dot.pima.gov/trafeng/DesignManual/PavementManual.pdf>



SIGNING GENERAL NOTES:

- ALL EXISTING SIGNS AND POSTS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE LATEST EDITION OF THE PIMA COUNTY/CITY OF TUCSON TRAFFIC SIGNING DESIGN MANUAL (PC/COT TSDM) AND THESE SIGNING NOTES. EXISTING SIGNS WHICH DO NOT MEET THE SPECIFIED REQUIREMENTS SHALL BE REPLACED BY THE CONTRACTOR WITH SIGNS WHICH COMPLY WITH THESE STANDARDS.
- SIGN LOCATIONS NOTED ON THE PLANS ARE APPROXIMATE AND MAYBE ADJUSTED TO FIT CONDITIONS AS DIRECTED BY THE TOWN ENGINEER OR DESIGNEE. THE CONTRACTOR SHALL VERIFY ACTUAL SIGN LOCATIONS WITH THE TOWN ENGINEER OR DESIGNEE PRIOR TO INSTALLATION. VERTICAL AND LATERAL SIGN INSTALLATION SHALL COMPLY WITH SHEET NO. 5-7 OR 5-8 OF THE PC/COT TSDM.
- EXISTING POSTS SHALL BE SALVAGED AND REUSED UNLESS THEY DO NOT MEET THE REQUIREMENTS OF THE PC/COT TSDM FOR PERFORATED, SQUARE TUBE POST (SEE SHEET 8-2-A OF THE PC/COT TSDM). EXISTING POSTS NOT MEETING THIS REQUIREMENT OR POSTS WHICH HAVE BEEN DAMAGED SHALL BE REPLACED WITH POSTS MEETING THE SPECIFIED PC/COT TSDM REQUIREMENTS.
- ALL SALVAGED SIGNS OR THEIR REPLACEMENT SHALL BE INSTALLED ON SQUARE TUBE POST PER DETAIL #2 SHEET 6. POSTS SHALL BE INSTALLED IN A CONCRETE FOUNDATION IN CONFORMANCE WITH SHEET 8-2A OF THE PC/COT TSDM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ARIZONA 811 AT LEAST TWO FULL WORKING DAYS IN ADVANCE OF EXCAVATING FOR ANY SIGN POST.
- ALL WARNING AND REGULATORY SIGNS SHALL BE TYPE IX (HIP) SHEETING, UNLESS OTHERWISE DETERMINED BY THE TOWN ENGINEER OR DESIGNEE. STREET NAME SIGNS AND ADVANCE STREET NAME SIGNS (SHEET 9-22A AND SHEET 9-22B OF THE PC/COT TSDM RESPECTIVELY) SHALL BE FABRICATED USING TYPE III (HIP) SHEETING.
- SALVAGED SIGNS SHALL BE 0.080 GUAGE ALUMINUM BACKING WITH RADIUS CORNERS. SIGNS NOT MEETING THIS REQUIREMENT SHALL BE REPLACED, BY THE CONTRACTOR, WITH CONFORMING SIGNS.
- SALVAGED SIGNS AND POSTS THAT ARE TO BE REUSED SHALL BE DISMANTLED, HANDLED AND STORED IN A MANNER THAT WILL PROTECT THE SIGN AND POST FROM DAMAGE OF ANY KIND WHATSOEVER. SALVAGED ITEMS WHICH ARE NOT INCORPORATED INTO THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PROJECT SITE.
- ANY SALVAGED SIGN THAT IS TO BE REUSED SHALL BE TEMPORARILY STORED IN A SAFE LOCATION UNTIL REINSTALLATION.
- REMOVAL SHALL BE IN ACCORDANCE WITH SECTION 202-3.06 OF THE LATEST PAG STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
- FINAL INSPECTION/ACCPECTANCE OF SIGNING SHALL BE PERFORMED BY THE TOWN ENGINEER OR DESIGNEE.



JOB NO. 116028-A002

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GENERAL NOTES & TYPICAL SECTIONS

SCALES

HOR. N.T.S.
VERT. N.T.S.

RELATED CASE #
1900400, OV1701617 & OV1701072

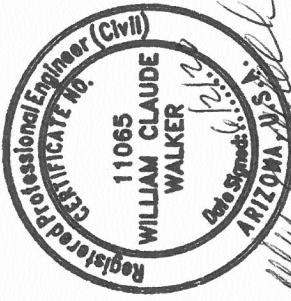
SHEET 2 OF 6

TOWN OF ORO VALLEY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION

DATE	05/20/20
DRAWN	DWD
CHECKED	GUG
PROJ. ENGR.	WLB

IMPROVEMENT PLANS FOR
SHANNON ROAD
ORO VALLEY, ARIZONA

NO.	REVISION	DESCRIPTION	DIV./SECT. ENGR.	DATE



11000 N. La Canada Dr.
Oro Valley, Az. 85737
520-229-4800



GENERAL DEMOLITION NOTES

- ALL DEMOLITION WORK SHALL BE IN ACCORDANCE WITH THE ORDINANCES, REGULATIONS AND APPLICABLE CODES OF THE TOWN OF ORO VALLEY AND WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS (WHICH ARE TO REMAIN IN PLACE) RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER OR NOT THOSE EXISTING IMPROVEMENTS ARE SHOWN ON THIS PLAN.
- IF ANY UNKNOWN SUB-SURFACE STRUCTURE IS ENCOUNTERED DURING DEMOLITION, IT SHOULD BE BROUGHT TO THE ATTENTION OF THE SUPERVISING CIVIL ENGINEER AND THE PROJECT MANAGER FOR GLOVER ROAD PRIOR TO PROCEEDING WITH THE WORK.
- DUST SHALL BE CONTROLLED BY WATERING.
- PRIOR TO COMMENCING ANY DEMOLITION WORK, THE CONTRACTOR SHALL OBTAIN A FIRE HYDRANT WATER

- METER FROM ORO VALLEY WATER DEPARTMENT AND THE METER SHALL BE USED AT ALL TIMES WHEN WATER IS BEING OBTAINED FROM AN ORO VALLEY FIRE HYDRANT.
- THE LOCATION AND PROTECTION OF ALL UTILITIES AND SURVEY MONUMENTS OF EVERY NATURE, WHETHER OR NOT THEY ARE SHOWN ON THESE DRAWINGS, ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES AND SURVEY MONUMENTS THAT HAVE BEEN DAMAGED OR DESTROYED DURING DEMOLITION.
- CONTRACTOR SHALL CONTACT BLUE STAKE CENTER (CALL 811 OR CLICK ARIZONA811.COM) 48 HOURS IN ADVANCE OF COMMENCEMENT OF CONSTRUCTION, FOR EXISTING UTILITY LOCATIONS. THE CONTRACTOR IS REQUIRED TO TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES OF RECORD NOT SHOWN ON THIS DRAWING.
- ADEQUATE BARRICADES, LIGHTS, FLAGMEN, SIGNS AND OTHER SAFETY DEVICES SHALL BE PROVIDED AS SPECIFIED

- IN THE TRAFFIC MANUAL PUBLISHED BY THE STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION LATEST EDITION AND THE CONTRACTOR'S TRAFFIC CONTROL PLAN ACCEPTED BY THE TOWN OF ORO VALLEY.
- EXISTING CITY STREETS SHALL BE KEPT CLEAN OF ALL MATERIALS RESULTING FROM THE DEMOLITION OPERATIONS. THE STREET RIGHT OF WAY SHALL BE CLEANED UP DAILY, AS NECESSARY, TO MAINTAIN SAFE PEDESTRIAN AND VEHICULAR PASSAGE AT ALL TIMES.
- ANY MODIFICATIONS OF OR CHANGES IN APPROVED DEMOLITION PLANS MUST BE APPROVED BY THE SUPERVISING ENGINEER AND OWNER.
- A COPY OF THE DEMOLITION PERMIT AND APPROVED DEMOLITION PLAN MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
- CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITION OPERATIONS, AS DIRECTED BY THE SUPERVISING ENGINEER, OWNER OR GOVERNING AUTHORITIES RETURN

- ADJACENT AREAS TO THE CONDITION EXISTING PRIOR TO START OF WORK.
- CONTRACTOR IS REQUIRED TO OBTAIN A DEMOLITION PERMIT AND UTILITY DISCONNECTION PERMITS FROM THE TOWN OF ORO VALLEY AND UTILITY COMPANIES AS REQUIRED PRIOR TO COMMENCING ANY DEMOLITION WORK.
 - CONCRETE SIDEWALK REMOVAL SHALL COMPLY WITH THE REQUIREMENTS OF PAG STANDARD DETAIL 203.
 - CONCRETE CURB REMOVAL SHALL COMPLY WITH THE REQUIREMENTS OF PAG STANDARD DETAIL 211.

DEMO QUANTITIES

EXIST. PAVEMENT TO BE REMOVED	8,890 SF
EXIST. CONC. HEADER TO BE REMOVED	80 LF

PROJ#: 1901572

RELATED CASE #
1900400, OV1701617 & OV1701072

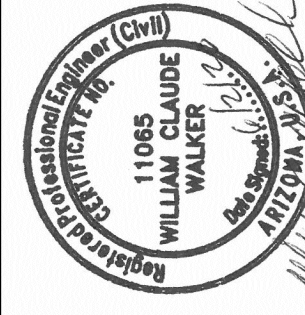
EXISTING CONDITIONS & DEMOLITION PLAN

SCALES

HOR.	1"=40'
VERT.	N/A

SHEET 3 OF 6

TOWN OF ORO VALLEY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION



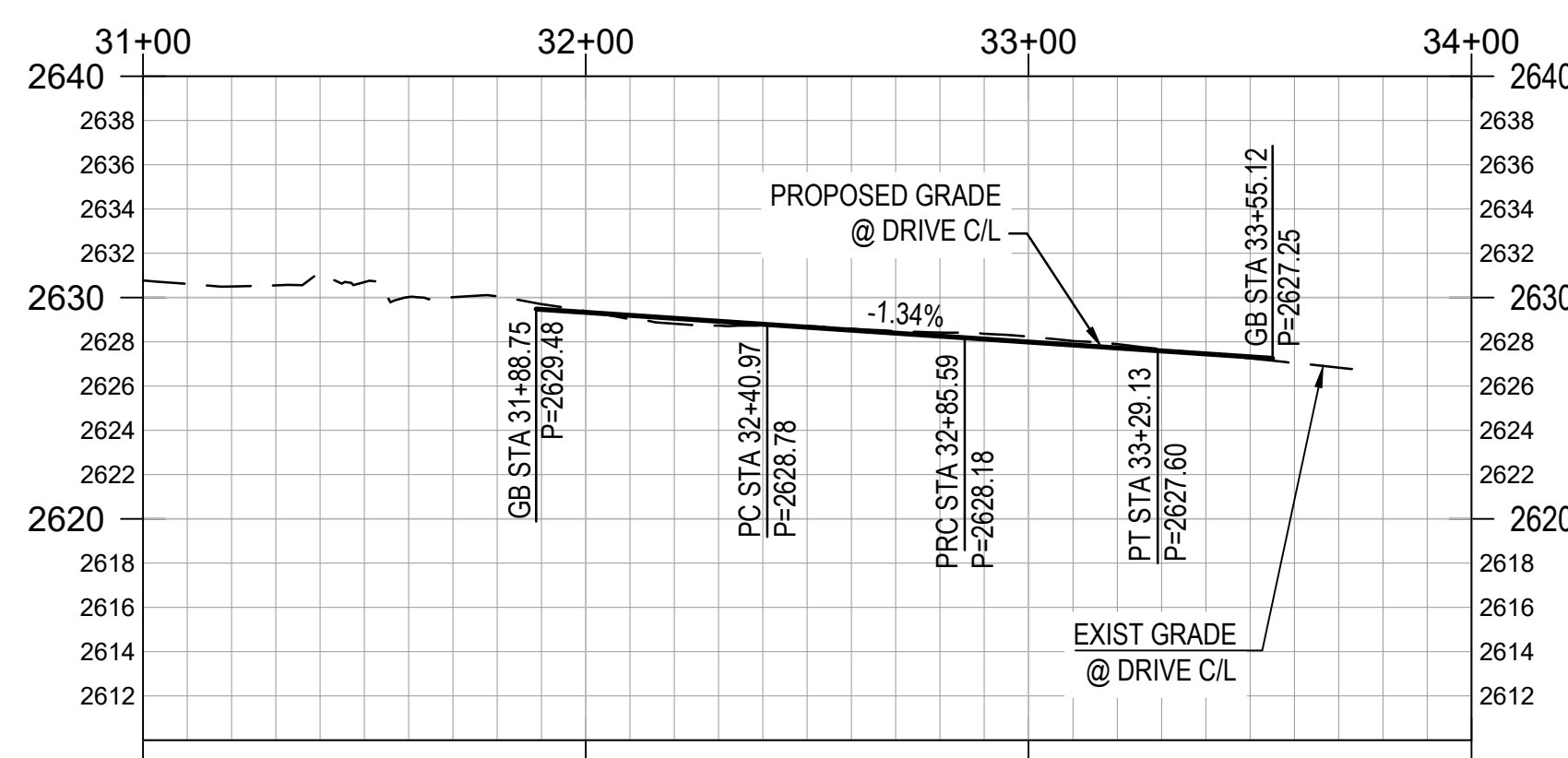
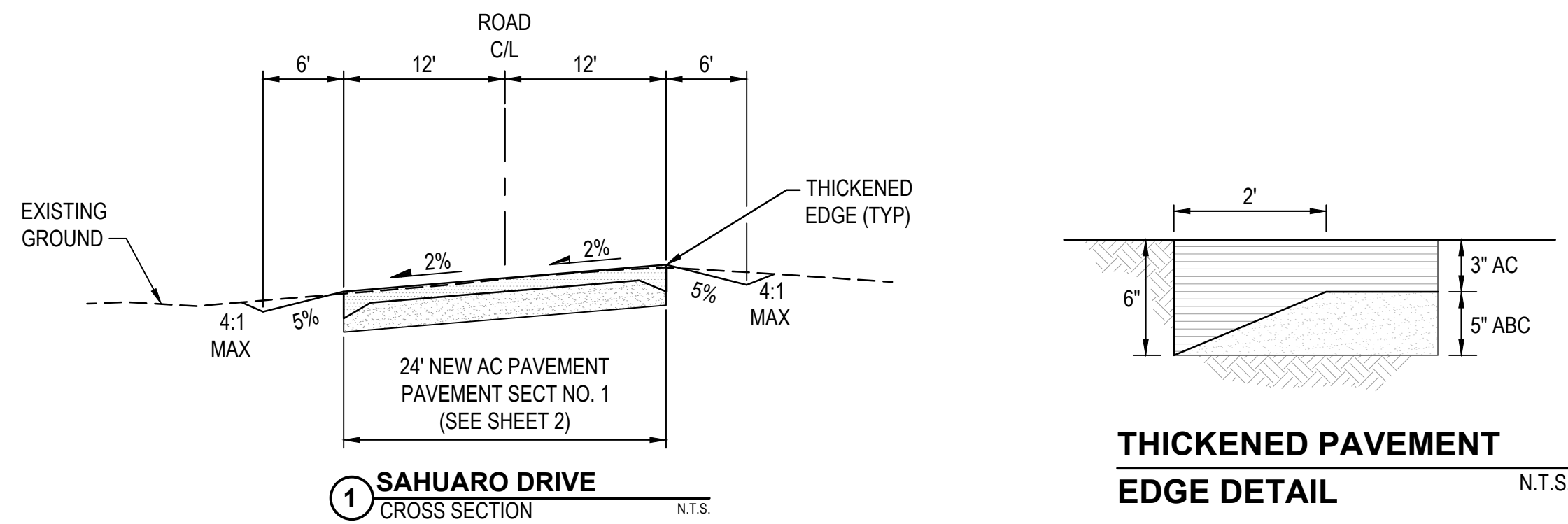
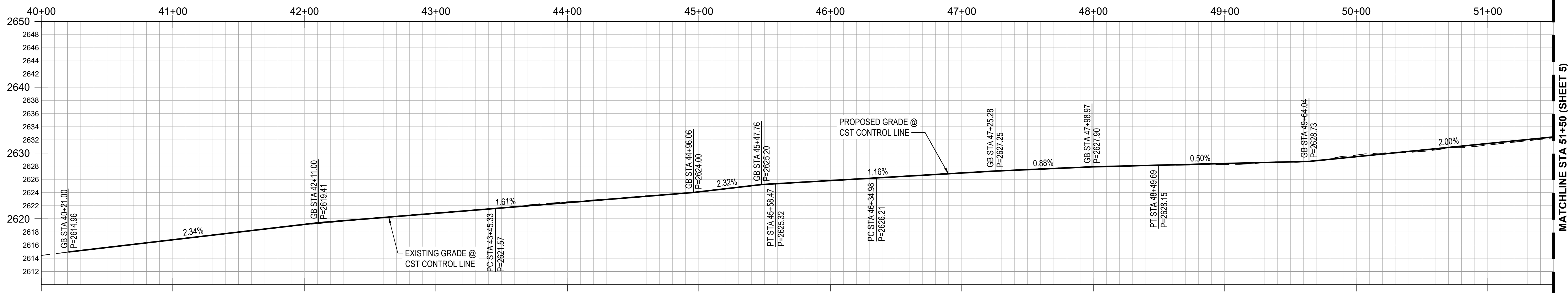
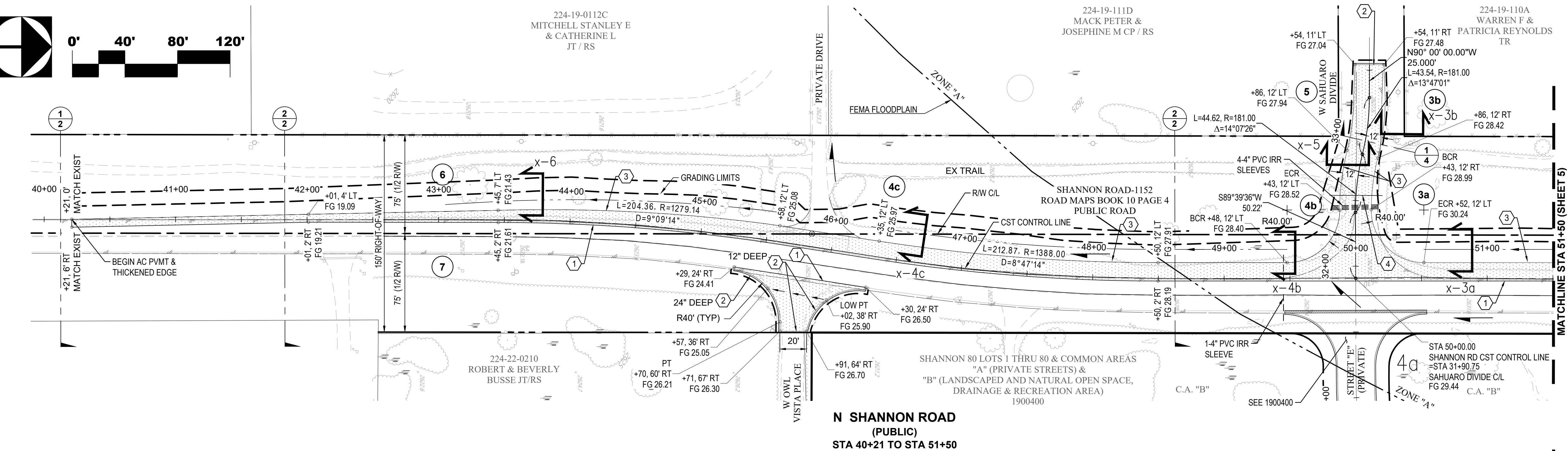
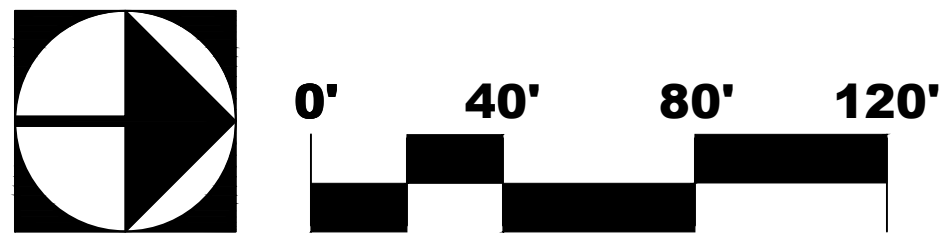
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IMPROVEMENT PLANS FOR
SHANNON ROAD
ORO VALLEY, ARIZONA

NO.	REVISION	DESCRIPTION	DIV/SECT ENGR.	DATE

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05/20/20	DWD	G/G	WLB	WLB
05/20/20				
05/20/20				



CONSTRUCTION NOTES

- TRIM, TACK & JOIN TO EXISTING PAVEMENT
- CONSTRUCT 12" WIDE BY 24" DEEP CLASS "B" CONCRETE HEADER
- CONSTRUCT THICKENED AC PAVEMENT EDGE MINIMUM 24" WIDE BY 6" THICK PER DETAIL (AT LEFT)
- INSTALL 40 LINEAR FEET OF 24 INCH DIP WATER MAIN WITH 60" MINIMUM COVER, END CAPS AND DVAs BOTH ENDS. PRESSURE TEST PER OVWU SPECIFICATIONS. ALIGNMENT TO BE 30' WEST OF SECTION LINE (R/W C/L)

NOTE:

PROFILE GRADES ALONG THE SHANNON ROAD CONSTRUCTION CONTROL LINE SHALL BE FIELD VERIFIED AND A TWO PERCENT CROSS SLOPE MAINTAINED FROM THE SAWCUT LINE OF THE EXISTING PAVEMENT TO THE OUTER EDGE OF THE NEW AC PAVEMENT.

MATERIAL QUANTITIES

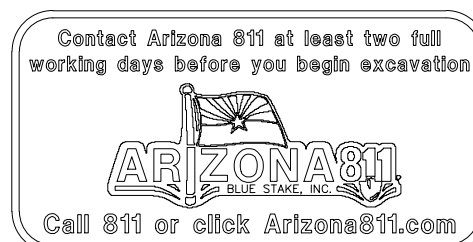
AC PAVEMENT (3" AC ON 5" AB)	23,670 SF
THICKENED EDGE	1,200 SF
CONCRETE HEADER (48"D)	95 LF
CONCRETE HEADER (24"D)	166 LF

PROJ#: 1901572

RELATED CASE #
1900400, OV1701617 & OV1701072

The WLB Group Inc.

Engineering Planning Surveying
Landscape Architecture Urban Design
Offices located in Tucson, Phoenix,
& Flagstaff, AZ, and Las Vegas, NV
4444 East Broadway Tucson, AZ 85711
(520) 881-7480



JOB NO. 116028-A002

Q:\116028 Shannon 80A-002 - Platting\07 IPs\05 Offsite\04-SH80-OS-PLN.dwg Plotted: Jun 04, 2020

PAVING PLAN

CONTOUR INTERVAL 1'

SCALES

HOR. 1"=40'
VERT. N/A

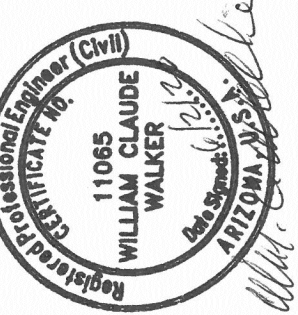
SHEET 4 OF 6

TOWN OF ORO VALLEY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION

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