

The Town of Jerome is prepared to improve the drainage along Gulch Road. The improvements are divided into 3 separate projects all shown in the signed plans dated 22 May 2025. As you prepare your bid, please review all the information provided and provide bids for each project separately. All costs associated with meeting these requirements must be included in your bid.

Project description: **Improvements to the existing drainage on Gulch Road in Jerome, Arizona.**

**Project start end of 2025**

**General Notes:**

1. Base bids shall be per plans, specifications, addendums etc. (no deviations, no substitutions in base bids).
2. If you are NOT bidding, please DECLINE this bid invite. We will assume you are bidding, unless notified otherwise.
3. The bid forms provided must be used and included in the bid.
4. 20% contingency to construction subtotal must be included in the bid.
5. Tax must be included in the base bid. Tax is to be calculated as 9% of 65% of the construction subtotal w/ contingencies.
6. The Total is to be the sum of the construction subtotal w/contingencies, supporting services, and tax.
7. Subcontractors must include all costs to complete their work including equipment, materials, labor, etc.
8. A bid for each of the 3 projects must be provided separately, the summary bid form must also be filled out.
9. All bids must be good for (90) days after the bid due date.

By submitting your bid, you agree that in preparation and submission of your bid, you have reviewed and taken account of all drawings and supplemental information. These documents will govern your work if you are the successful bidder. You understand that the Town of Jerome will be relying on the pricing and other terms provided by successful bidders in agreeing to a price and contract terms.



# INVITATION FOR BIDS

**Town of Jerome  
Post Office Box 335  
Jerome, Arizona 86331**

## SOLICITATION INFORMATION AND SCHEDULE

<b>Solicitation Title:</b>	Gulch Drainage Improvements	
<b>Solicitation Number:</b>	TOJ-2025-001	
<b>Release:</b>	6/18/2025	
<b>Advertisements:</b>	6/21/25 & 6/28/25 via Verde Independence News paper and Town of Jerom web site	
<b>Non-Mandatory Prospective Bidders' Conference:</b>	7/14/2025 at 10 AM Jerome Town Hall 600 Clark Street Jerome, Arizona 86331	
<b>Final Inquiries Due:</b>	7/21/25	
<b>Bid Deadline:</b>	7/28/25 3PM	
<b>Bid Opening:</b>	7/28/25 3.30PM	
<b>Town Representative:</b>	Brett Klein	b.klein@jerome.az.gov (928) 634-7943

In accordance with the Town of Jerome Procurement Policy, competitive sealed Bids for the services specified herein will be received until the date and time referenced above (the "Bid Deadline"). Bids received by the Bid Deadline shall be publicly opened and the Bid Price read. Bids must be in received on, or prior to, the Bid Deadline. Late Bids will not be accepted.

### General Description of the Services/Proposed Work:

The Town is soliciting the services of a general contractor to complete drainage improvements at Gulch Road. Full, detailed information regarding the proposed work, along with plans and specifications, may be obtained at Jerome Town Hall (600 Clark Street, Jerome AZ, 86331), by appointment.

### **ATTENTION**

- The Town reserves the right to amend the solicitation schedule as necessary.
- The Town reserves the right to reject any or all proposals or to withhold the award for any reason.

- Every proposal shall be accompanied by a certified check, cashier's check, or surety bond for ten percent of the amount of the bid as a guarantee that the contractor will enter into a contract to perform the proposal in accordance with the plans and specifications.
- Seal bid envelop to state: Town of Jerom Gulch Drainage Improvements
- All times are local to Jerome, Arizona.

## Project- Town of Jerome- Gulch Drainage Improvements (Project 1,2 & 3)

### Summary Bid Form

Project	Total
Project 1	
Project 2	
Project 3	
Sum:	

#### ENGINEER'S OPINION OF PROBABLE COST

**NOTE:** This Opinion represents the Consultant's best judgment as a design professional and is supplied only for the guidance of the Client. Consultant has no control over the cost of labor and material, competitive bidding, or market conditions. The Opinion is based on Consultant's recent experience and adjusted to accommodate factors known to the Consultant at the time the Opinion was prepared. The Consultant does not guarantee the accuracy of the Opinion as compared to actual bids or cost to the Client. Some factors which will impact actual costs include the date of construction, the time of year, labor forces, materials used and associated costs.

If the Client desires a higher level of confidence in predicting anticipated construction cost than that provided in the Opinion, the Client should retain the services of a professional cost estimator for this purpose.

#### Project- Town of Jerome- Gulch Drainage Improvements (Project 1)

ITEM	GROUP	DESCRIPTION	QTY	UNITS	Unit Cost	Total	
		MOBILIZATION	1	LS		\$ -	
		POT HOLING*	1	LS		\$ -	
	DRAINAGE	REMOVED EXISTING CMP	1	EA		\$ -	
	DRAINAGE	24" EQUIVALENT ELLIPTICAL CMP 20' JOINTS	3	EA		\$ -	
	DRAINAGE	30° HEADWALL	1	EA		\$ -	
	DRAINAGE	RENO MATT	190	SF		\$ -	
	DRAINAGE	REMOVE & REPLACE EXISTING ROCKS AT CMP	1	EA		\$ -	
		CONSTRUCTION SUBTOTAL				\$ -	
		ADD CONTINGENCY	20%			\$ -	
		UNKNOWN UTILITY RELOCATION	1	LS		\$ -	
		CONSTRUCTION SUBTOTAL W/CONTINGENCIES				\$ -	Construction Subtotal + Contingency
	SUPPORTING SERVICES						
		TRAFFIC CONTROL		LS		\$ -	
		SWPPP		LS		\$ -	
		TESTING		LS		\$ -	
		Supporting Services Sub Total				\$ -	
		TAX				\$ -	CONSTRUCTION SUB TOTAL W/CONTINGENCIES * 65% * 9%
		Total				-	

CONTRACTOR TO PROVIDE RATE SHEET. ANY ADDITIONAL WORK WILL BE PER THE RATE SHEET.

QA/QC, AS-BUILT CERTIFICATION, REGULATORY ADMINISTRATION, AND CONSTRUCTION STAKING WILL BE PROVIDED BY THE TOWN / ENGINEER

ANY ADDITIONAL WORK TO BE APPROVED BY THE ENGINEER BEFORE PROCEEDING.

\*ROCK EXCAVATION, UNKNOWN UTILITY RELOCATION, & CONTINGENCIES ARE ALLOWANCES WHICH WILL BE APPROVED BY THE TOWN ENGINEER, BASED ON THE UNIT RATE SHEET PROVIDED.

CONSTRUCTION STAKING & AS-BUILT SURVEY TO BE PROVIDED BY THE TOWN

#### ENGINEER'S OPINION OF PROBABLE COST

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#### Project- Town of Jerome- Gulch Drainage Improvements (Project 2)

ITEM	GROUP	DESCRIPTION	QTY	UNITS	Unit Cost	Total	
		MOBILIZATION	1	LS		\$ -	
		POT HOLING*	1	LS		\$ -	
	DRAINAGE	REMOVE SPEED BUMP	1	EA		\$ -	
	DRAINAGE	VALLEY GUTTER	1	EA		\$ -	
	DRAINAGE	RIP RAP	200	SF		\$ -	
	DRAINAGE	ASPHALT	1,165	SF		\$ -	
		CONSTRUCTION SUBTOTAL				\$ -	
		ADD CONTINGENCY	20%			\$ -	
		UNKNOWN UTILITY RELOCATION	1	LS		\$ -	
		CONSTRUCTION SUBTOTAL W/CONTINGENCIES				\$ -	Construction Subtotal + Contingency
	SUPPORTING SERVICES						
		TRAFFIC CONTROL				\$ -	
		SWPPP				\$ -	
		TESTING				\$ -	
		Supporting Services Sub Total				\$ -	
		TAX				\$ -	CONSTRUCTION SUB TOTAL W/CONTINGENCIES * 65% * 9%
		Total				-	

CONTRACTOR TO PROVIDE RATE SHEET. ANY ADDITIONAL WORK WILL BE PER THE RATE SHEET.

QA/QC, AS-BUILT CERTIFICATION, REGULATORY ADMINISTRATION, AND CONSTRUCTION STAKING WILL BE PROVIDED BY THE TOWN / ENGINEER

ANY ADDITIONAL WORK TO BE APPROVED BY THE ENGINEER BEFORE PROCEEDING.

\*ROCK EXCAVATION, UNKNOWN UTILITY RELOCATION, & CONTINGENCIES ARE ALLOWANCES WHICH WILL BE APPROVED BY THE TOWN ENGINEER, BASED ON THE UNIT RATE SHEET PROVIDED.

CONSTRUCTION STAKING & AS-BUILT SURVEY TO BE PROVIDED BY THE TOWN

#### ENGINEER'S OPINION OF PROBABLE COST

**NOTE:** This Opinion represents the Consultant's best judgment as a design professional and is supplied only for the guidance of the Client. Consultant has no control over the cost of labor and material, competitive bidding, or market conditions. The Opinion is based on Consultant's recent experience and adjusted to accommodate factors known to the Consultant at the time the Opinion was prepared. The Consultant does not guarantee the accuracy of the Opinion as compared to actual bids or cost to the Client. Some factors which will impact actual costs include the date of construction, the time of year, labor forces, materials used and associated costs.

If the Client desires a higher level of confidence in predicting anticipated construction cost than that provided in the Opinion, the Client should retain the services of a professional cost estimator for this purpose.

#### Project- Town of Jerome- Gulch Drainage Improvements (Project 3)

ITEM	GROUP	DESCRIPTION	QTY	UNITS	Unit Cost	Total
		MOBILIZATION	1	LS		\$ -
		POT HOLING*	1	LS		\$ -
	DRAINAGE	24" EQUIVALENT ELLIPTICAL CMP 20' JOINTS	3	EA		\$ -
	DRAINAGE	DROPPED INLET HEADWALL	1	EA		\$ -
	DRAINAGE	RENO MATT	55	SF		\$ -
	DRAINAGE	REMOVE & REPLACE EXISTING ROCKS AT CMP	1	EA		\$ -
		CONSTRUCTION SUBTOTAL				\$ -
		ADD CONTINGENCY	20%			\$ -
		UNKNOWN UTILITY RELOCATION	1	LS		\$ -
		CONSTRUCTION SUBTOTAL W/CONTINGENCIES				\$ -
	SUPPORTING SERVICES					
		TRAFFIC CONTROL		LS		\$ -
		SWPPP		LS		\$ -
		TESTING		LS		\$ -
		Supporting Services Sub Total				\$ -
		TAX				\$ -
		Total				-

Construction Subtotal + Contingency

CONSTRUCTION SUB TOTAL W/CONTINGENCIES \* 65% \* 9%

CONTRACTOR TO PROVIDE RATE SHEET. ANY ADDITIONAL WORK WILL BE PER THE RATE SHEET.

QA/QC, AS-BUILT CERTIFICATION, REGULATORY ADMINISTRATION, AND CONSTRUCTION STAKING WILL BE PROVIDED BY THE TOWN / ENGINEER

ANY ADDITIONAL WORK TO BE APPROVED BY THE ENGINEER BEFORE PROCEEDING.

\*ROCK EXCAVATION, UNKNOWN UTILITY RELOCATION, & CONTINGENCIES ARE ALLOWANCES WHICH WILL BE APPROVED BY THE TOWN ENGINEER, BASED ON THE UNIT RATE SHEET PROVIDED.

CONSTRUCTION STAKING & AS-BUILT SURVEY TO BE PROVIDED BY THE TOWN





# JEROME DRAINAGE IMPROVEMENTS

## GULCH ROAD

SITUATED IN THE TOWN OF JEROME  
YAVAPAI COUNTY, ARIZONA

PROJECTS	
PROJECT 1	REPLACE EXISTING CMP, INSTALL 30° HEADWALL, & INSTALL RENO MAT
PROJECT 2	INSTALL VALLEY GUTTER, ASPHALT, & RIP RAP
PROJECT 3	INSTALL CMP, INSTALL NEW HEADWALL DROP INLET, & INSTALL RENO MAT

### CONTACT INFORMATION

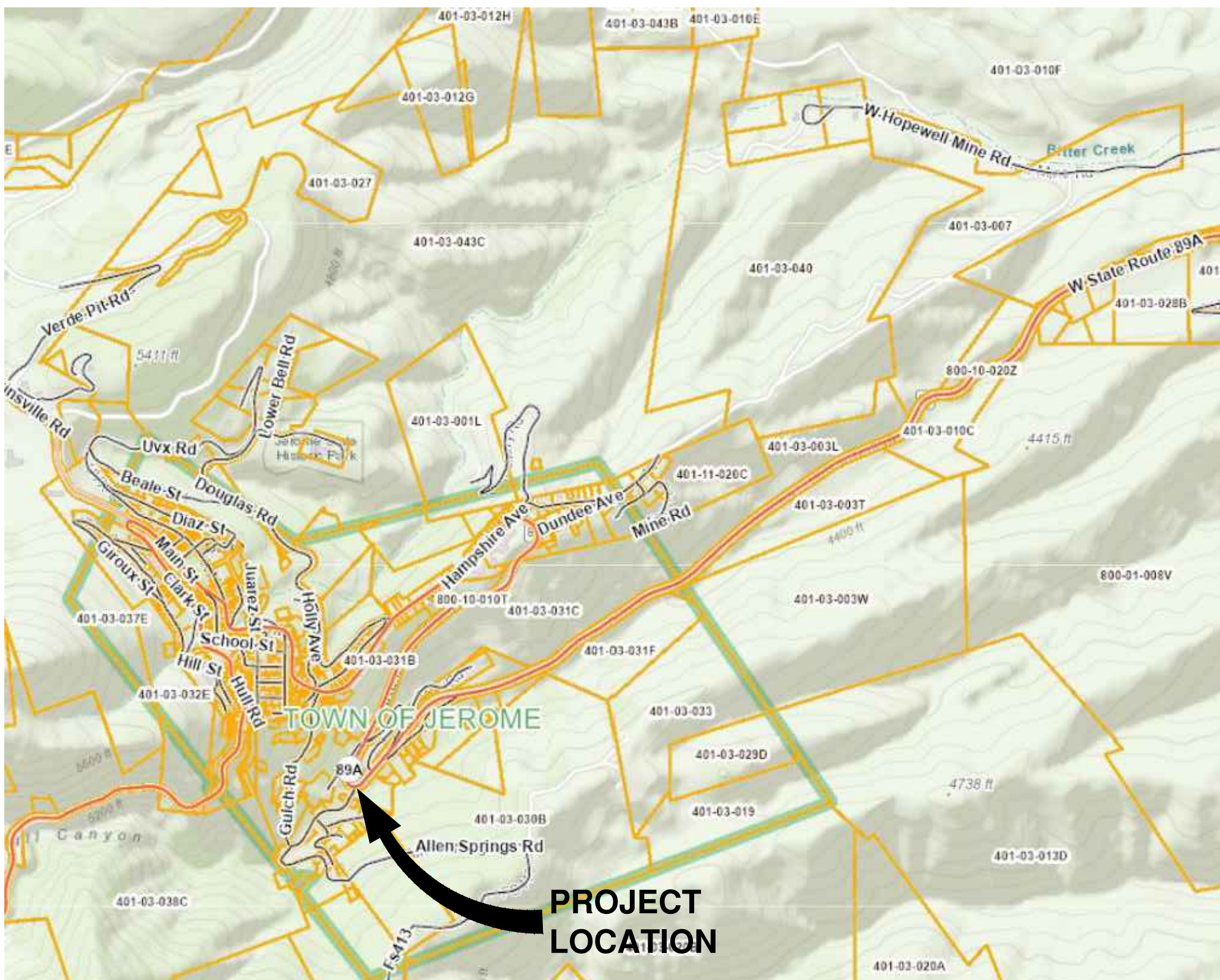
OWNER/ DEVELOPER	BRETT KLEIN
CONTACT	TOWN OF JEROME 600 CLARK ST PO BOX 335 JEROME, AZ 86331 (928) 634-7943
ENGINEER	SEC, INC. 825 COVE PARKWAY, SUITE A COTTONWOOD, ARIZONA 86326 (928) 634-5889 FAX: (928) 282-0731 REGISTRATION NUMBERS: P.E. 49109, R.L.S. 40829 CONTACT: KRISHAN GINIGE

LEGEND	
PROPOSED DEVELOPMENT	
	CENTER LINE/BASE LINE
	RIP RAP
	ASPHALT
	CONCRETE
	PAVER
	CURB & GUTTER
	SIDEWALK
	FENCE
	GUARD RAIL
	SAFETY RAIL
	CULVERT
	DRAINAGE FLOWLINE
	STORM SEWER MAIN
	BUILDING FOOTPRINT
	RETAINING WALL
	SIGNS
	DRAINAGE FLOW DIRECTION



VICINITY MAP  
NOT TO SCALE

ABBREVIATIONS	
XX.X	SPOT ELEVATION RELATIVE TO ELEV. 4600
LF	LINEAR FEET
T.O.P.	TOP OF PIPE
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
MSD	MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
FF	FINISHED FLOOR ELEVATION
EG	EXISTING GRADE
FG	FINISHED GRADE
TW	FINISHED GRADE AT TOP BACK OF WALL
BW	FINISHED GRADE AT BOTTOM FACE OF WALL
INV	INVERT
FL	FLOW LINE
AB	AGGREGATE BASE COURSE
DG	DECOMPOSED GRANITE
ADA	AMERICANS WITH DISABILITIES ACT
ARV	AIR RELEASE VALVE
BOV	BLOW-OFF VALVE
PVI	POINT OF VERTICAL INTERSECTION
DIP	DUCTILE IRON PIPE
PVC	POLY VINYL CHLORIDE
EP OR EOP	EDGE OF PAVEMENT
SEC	SOUTHWESTERN ENVIRONMENTAL CONSULTANTS, INC
STA	STATION
TBD	TO BE DETERMINED
VC	VERTICAL CURVE
NTS	NOT TO SCALE
SF	SQUARE FEET
EL OR ELEV	ELEVATION
GRD BRK	GRADE BREAK
CP	SURVEY CONTROL POINT
SW	SIDEWALK
CY	CUBIC YARDS
AWC-SD	ARIZONA WATER COMPANY STANDARD DETAIL



LOCATION MAP  
NOT TO SCALE

SHEET LIST	
#	SHEET TITLE
1	COVER
2	NOTES
3	SITE & GRADING PLAN
4	PROFILE
5	DETAILS



SEE GENERAL NOTE 3.1 PRIOR TO CONSTRUCTION

JEROME DRAINAGE IMPROVEMENTS GULCH ROAD			
 825 COVE PARKWAY COTTONWOOD, AZ 86326 (928) 282-7787		COVER	
DATE 5/22/25	DRAWN RIN	SHEET 1 OF 5	
SCALE AS SHOWN	CHECKED KG	PROJECT NO. 25-0105E	



## 1 GENERAL

1.1 ALL ROAD WORK SHALL COMPLY WITH THE LATEST TOWN OF JEROME ENGINEERING STANDARDS AND SPECIFICATIONS, AND SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) STANDARDS. GRADING WORK SHALL CONFORM TO MAG SPECS, THE SOILS REPORT (IF AVAILABLE) AND CHAPTER 70 ENTITLED "EXCAVATION AND GRADING" OF THE UNIFORM BUILDING CODE (UBC) LATEST EDITION, SUBSECTIONS 7001 TO 7005, 7009 TO 7013, FIGURES 70-1 AND 70-2 AND AS STATED THEREIN. LOCAL MUNICIPAL STANDARD DETAILS WILL CONTINUE TO APPLY WHERE NOT ADOPTED OR INCLUDED BY MAG. THE FOLLOWING NOTES AND SPECIFICATIONS ARE HEREBY MADE A PART OF THE CONTRACT DOCUMENTS AND PROJECT MANUAL. WHERE THERE EXISTS A CONFLICT BETWEEN THESE NOTES, MAG SPECS, UBC, THE SOILS REPORT OR THE PROJECT MANUAL, THE MORE STRINGENT OF THE REQUIREMENTS SHALL GOVERN UNLESS PRIOR CLARIFICATION FROM THE ENGINEER HAS BEEN GIVEN IN WRITING TO THE CONTRACTOR. THE CONTRACTOR AS STATED HEREIN SHALL MEAN THE GENERAL CONTRACTOR AND HIS ASSOCIATED SUBCONTRACTORS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION AND PERFORMANCE OF THE WORK OF ALL OF HIS SUBCONTRACTORS AND SUPPLIERS.

1.2 ALL WORK SHALL BE BID AND INSTALLED BY THE CONTRACTOR COMPLETE AND OPERATIONAL TO LINES, GRADES AND FUNCTIONS INDICATED ON ALL PLANS AND SPECIFICATIONS. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE ALL PROJECT EARTHWORK AND SITE WORK INCLUDING BUT NOT LIMITED TO: SITE CLEARING, GRUBBING, DEMOLITION, DEBRIS REMOVAL FROM THE SITE, IMPORT AND/OR EXPORT OF SOILS AND OTHER MATERIALS TO AND FROM THE SITE, BORROW MATERIALS, TEMPORARY SOILS MATERIAL STOCKPILING, BACKFILL OF DMSITE BORROW PITS, MOVING OF MATERIALS, CUT AND FILL, SLOPES, SOILS AND BANK STABILIZATION AND PROTECTION, BERMING ROADWAY EXCAVATIONS, RELOCATIONS, STRUCTURE EXCAVATIONS, TRENCHING, BACK FILLING, SITE GRADING, PAVING, PIPING, UTILITY LINE AND STORM DRAINAGE CONSTRUCTION, CURBS, SITE CONCRETE WORK AND OTHER MISCELLANEOUS SITE WORK STRUCTURES AND ITEMS INDICATED ON THE PLANS AND IN THE CONTRACT DOCUMENTS.

1.3 ALL OBSTRUCTIONS IN THE ROAD PRISM SHALL BE REMOVED BEFORE ANY CONSTRUCTION IS PERMITTED.

1.4 ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE ENGINEER. QUANTITIES ARE APPROXIMATE ONLY AND INTENDED AS A GUIDE FOR ESTIMATING PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR OWN QUANTITY TAKE-OFFS. THE CONTRACTOR SHALL VISIT THE SITE AND REVIEW THE SOILS CONDITIONS AND THE SOILS REPORT WITH THE PROJECT SOILS ENGINEER PRIOR TO BIDDING THIS PROJECT. ANY DISCREPANCIES IN SITE MATERIALS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER 7 DAYS MINIMUM PRIOR TO BIDDING FOR REVIEW. ALL SHRINK OF EARTH MATERIAL OR EXCESS MATERIAL FROM UTILITY TRENCHES AND FOUNDATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.

1.5 THE ENGINEER MAY REQUIRE THE SUBMITTAL OF A "CERTIFICATE OF COMPLIANCE" AND/OR "MANUFACTURER'S GUIDELINES" FOR ANY MATERIALS USED IN THE WORK. MANUFACTURER'S GUIDELINES SHALL CONSIST OF WRITTEN INSTRUCTIONS FOR SHIPPING, HANDLING, UNLOADING, CUTTING, JOINING, INSTALLATION, STORAGE, AND/OR ANY OTHER FACETS OF CONSTRUCTION

1.6 THE ENGINEER MAY REQUIRE ANY MATERIALS USED IN THE WORK TO BE TESTED ACCORDING TO AASHTO AND ASTM STANDARDS. THE CONTRACTOR SHALL, AT HIS EXPENSE, SUPPLY CERTIFICATES OR RESULTS OF TESTING.

1.7 ALL WORK AND MATERIALS NOT CONFORMING TO SPECIFICATIONS OR PERFORMED WITHOUT THE CONSENT OF THE OWNER OR HIS REPRESENTATIVE WILL BE SUBJECT TO REJECTION BY THE OWNER AND/OR ENGINEER AND REPLACED AT THE CONTRACTOR'S EXPENSE.

1.8 THE CONTRACTOR SHALL GUARD AGAINST DAMAGE DURING CONSTRUCTION TO ADJACENT PROPERTIES, FENCES, WALLS AND UTILITY EQUIPMENT. ANY ITEMS DAMAGED BY CONSTRUCTION SHALL BE REPLACED WITH SAME KIND OR BETTER AT CONTRACTOR'S EXPENSE.

1.9 NO CONSTRUCTION SHALL BEGIN UNTIL CONFLICTING UNDERGROUND UTILITY MITIGATING CONSTRUCTION IS COMPLETED, IF ANY.

1.10 NO EXISTING SURVEY MONUMENTATION SHALL BE REMOVED OR DISTURBED BY THE CONTRACTOR WITHOUT NOTIFICATION AND APPROVAL OF THE PROJECT SURVEYOR. THE CONTRACTOR SHALL CONTACT THE PROJECT SURVEYOR FOR THE SETTING OF REFERENCE POINTS 48 HOURS PRIOR TO DISTURBING OR REMOVING ANY MONUMENTS. THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR COSTS TO REESTABLISH MONUMENTATION OR CONTROLS REMOVED WITHOUT PRIOR NOTICE AND APPROVAL.

1.11 TRAFFIC CONTROL SHALL CONFORM TO THE LOCAL MUNICIPAL ADOPTED STANDARDS.

1.12 BENCH MARK ELEVATIONS ESTABLISHED WITH REFERENCE TO THE GOVERNMENTAL BENCH MARK AS INDICATED ON THE PROJECT CONTROL SHEET.

1.13 CONTRACTOR SHALL COORDINATE HIS WORK WITH THE DESIGN ENGINEER, OWNER, PUBLIC UTILITY COMPANIES AND OTHER ASSOCIATED TRADES ON AND ADJACENT TO THE PROJECT SITE. COORDINATE INSTALLATION OF ALL PUBLIC AND PRIVATE UNDERGROUND UTILITIES, PIPES, CONDUITS AND PIPE SLEEVE SIZES AND LOCATIONS PRIOR TO THEIR PLACEMENT. INSTALLATION THE CONTRACTOR IS RESPONSIBLE FOR SETTING CAPPED SLEEVES AND PROVIDING TYPE 1 COMPACTION IN ALL BACKFILLED TRENCHES IN PAVED AREAS AND EASEMENTS. PROVIDE TRACER WIRE AND MARKER AT GRADE LEVEL FOR FUTURE LOCATING.

1.14 CONTRACTOR SHALL BE RESPONSIBLE FOR FINANCIAL REIMBURSEMENT TO THE OWNER AND ENGINEER FOR THE FOLLOWING ADDITIONAL ENGINEERING SERVICES SHOULD THEY OCCUR, AND SUCH A/E DESIGN SERVICES WILL BE DEDUCTED FROM CONTRACTOR'S FINAL PAYMENTS BY THE OWNER:

- REOBSERVATION, COORDINATION AND EXTRA TESTING OR RETESTING COSTS INCURRED BECAUSE OF IMPROPER OR FAULTY CONSTRUCTION.
- ADDITIONAL STAKING NOT INCLUDED IN CONTRACT OR RESTAKING REQUESTED BY CONTRACTOR.
- CHANGES AND SUBSTITUTIONS IN MATERIALS CONSTRUCTION METHODS, REQUESTED BY THE CONTRACTOR, THAT MUST BE REVIEWED, RECALCULATED OR APPROVED BY ENGINEER.
- ENGINEERING DESIGN SERVICES REQUESTED BY THE CONTRACTOR OR CAUSED BY ERRORS OR OMISSIONS BY THE CONTRACTOR.
- ANY ENGINEERING DESIGN APPROVED BY OTHERS AND SUBMITTED FOR REVIEW. THESE SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN ARIZONA.

1.15 ANY DIFFERENCE BETWEEN PLANS AND SPECIFICATIONS AND QUESTIONS AS TO THEIR MEANING SHALL BE DETERMINED PRIOR TO AWARD OF THE CONTRACT AND SHALL BE INTERPRETED BY THE ENGINEER. THE GENERAL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS WILL GOVERN AND SHALL NOT WARRANT ANY ADDITIONAL COMPENSATION TO THE CONTRACTOR. THE ENGINEER WILL PROVIDE FULL INSTRUCTIONS WHEN DISCREPANCIES ARE DISCOVERED IN THE DOCUMENTS.

1.16 THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LIMITS OF THE WORK AREA FOR ALL PHASES OF THE WORK PRIOR TO BEGINNING CONSTRUCTION OF THOSE PHASES. ALL CONSTRUCTION LIMITS, AREAS OF WORK, SETBACKS, PERIMETERS, ADJACENT PROPERTY LINES, BOUNDARIES, AND OTHER CRITERIA DEFINING THE LIMITS OF THE CONTRACTOR'S WORK AREA AND LIMITS, SHALL BE STAKED BY THE CONTRACTOR'S SURVEYOR PRIOR TO CONSTRUCTION OR CLEARING OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE EXTENT OF WORK TO BE DONE IN EACH SEPARATE PHASE OF THE PROJECT, AND ANY WORK NECESSARY IN INACTIVE PHASES REQUIRED TO DEEM THE ACTIVE PHASES FINISHED, SAFE AND SERVICEABLE.

1.17 THE CONTRACTOR OR SUBCONTRACTORS SHALL NOT DEVIATE FROM THESE PLANS OR MAKE FIELD CHANGES WITHOUT REQUESTING THE ENGINEER IN WRITING FOR APPROVAL OF THESE MODIFICATIONS. ANY CHANGES MADE WITHOUT APPROVAL OF THE DESIGN ENGINEER ARE SUBJECT TO REMOVAL AT THE EXPENSE OF THE CONTRACTOR.

1.18 THE DESIGN ENGINEER RESERVES THE RIGHT TO MAKE MINOR FIELD MODIFICATIONS TO GRADES AND STRUCTURE DESIGNS TO ACCOMMODATE FIELD CONDITIONS FOUND ON SITE. THIS INCLUDES BUT IS NOT LIMITED TO MINOR MODIFICATIONS TO GRADE, ALIGNMENT, SLOPE OR STRUCTURE LOCATIONS. THE ENGINEER SHALL HAVE THE RIGHT TO MAKE SUCH CHANGES IN WRITING IN THE LOCATION AND QUANTITIES OF WORK AS MAY BE DEEMED ADVISABLE.

1.19 NO JOB WILL BE CONSIDERED COMPLETE UNTIL FINE GRADING IS COMPLETE AND ALL CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEEP CLEAN OF ALL DIRT AND DEBRIS. ALL SURVEY MONUMENTS ARE INSTALLED AND ALL VALVES, MANHOLES AND BOXES HAVE BEEN ADJUSTED ACCORDING TO THE PLANS AND STANDARD DETAILS.

1.20 EXISTING GRADES INDICATED ON PLANS ARE BASED ON PREGRADING CONDITIONS. LOSSES IN MATERIAL DUE TO SHRINKAGE OF MATERIAL, DEMOLITION OF EXISTING EXISTING SITE FEATURES, CLEARING AND GRUBBING OF THE SITE SHALL BE INCLUDED IN CONTRACTOR'S BID.

1.21 SHOP DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR PER MAG SECTION 105.2.

## 2 PERMITS

2.1 OWNER SHALL OBTAIN ALL PERMITS AT HIS OWN EXPENSE FROM LOCAL MUNICIPAL AND AIR POLLUTION CONTROL AUTHORITIES PRIOR TO BEGINNING CONSTRUCTION.

2.2 REQUIRED PERMITS SHALL BE SECURED BY THE OWNER FROM THE APPROPRIATE AGENCIES. FEDERAL PERMITS, UTILITY CO. AND OTHER PERMITS MAY BE REQUIRED. A RIGHT-OF-WAY PERMIT, ISSUED BY THE FOREST SERVICE, IS REQUIRED FOR ANY EXCAVATION OR GRADING (INCLUDING PLACEMENT OF FILL). PRIOR TO CONSTRUCTION THE APPROPRIATE AGENCIES SHALL BE NOTIFIED BY THE OWNER AS REQUIRED BY THE PERMITS.

2.3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AT HIS OWN EXPENSE ALL APPROPRIATE INSURANCE FORMS FOR PERMIT REQUIREMENTS.

2.4 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR THE RELOCATION AND RELOCATION COSTS, IF ANY, OF ALL UTILITIES, AND SUBMIT A UTILITY RELOCATION SCHEDULE TO THE MUNICIPALITY AND DESIGN ENGINEER PRIOR TO CONSTRUCTION. ALL PUBLIC UTILITY EQUIPMENT POLES, BOXES, STRUCTURES AND MUNICIPAL UTILITY COMPANY EQUIPMENT SHALL BE RELOCATED BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY BEFORE ANY WORK IS STARTED.

## 3 APPROVALS

3.1 THE CONTRACTOR IS TO USE ONLY THAT OFFICIAL CONSTRUCTION SET OF DRAWINGS WHICH CONTAINS THE APPROVAL OF THE GOVERNING AGENCY SIGNED ON THE COVER SHEET OF THE PLANS. THE CONTRACTOR SHALL NOT PLACE BIDS ON A SET OF DRAWINGS UNSIGNED BY THE GOVERNING AGENCY AND/OR MARKED "NOT FOR CONSTRUCTION".

## 4 RECORD DRAWINGS

4.1 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND KEEP AN UPDATED RECORD SET OF PLAN DRAWINGS IN GOOD CONDITION ON THE JOB SITE AND PROVIDE THE DESIGN ENGINEER AT COMPLETION OF THE WORK, WITH THE RECORD SET SHOWING FIELD VERIFIED LOCATIONS OF ALL VALVES, BOXES, MANHOLES, UTILITY POLES, PIPE SLEEVES, UTILITY ENCASEMENT AND OTHER UTILITY LINES AND EQUIPMENT ABOVE AND BELOW GROUND WHICH THE CONTRACTOR ENCOUNTERS AND INSTALLS IN HIS AREA OF WORK.

4.2 ACCEPTANCE OF THE COMPLETED PAVING, GRADING OR UTILITY INSTALLATION WILL NOT BE GIVEN UNTIL REPRODUCIBLE AS-BUILT PLANS HAVE BEEN SUBMITTED BY THE ENGINEER AND APPROVED BY THE CITY.

## 5 OBSERVATION

5.1 ALL MATERIALS USED AND ALL WORK DONE BY THE CONTRACTOR SHALL BE SUBJECT AT ALL TIMES TO THE OBSERVATION, TESTING AND APPROVAL OF THE ENGINEER AND GOVERNING AGENCY.

5.2 THE CONTRACTOR SHALL CONTACT THE APPROPRIATE PUBLIC UTILITY COMPANIES FOR INSPECTION OF TRENCHING, BEDDING AND BACKFILLING DONE IN CONJUNCTION WITH INSTALLATION OF THOSE UTILITIES ON THIS PROJECT.

5.3 SUBMITTAL OF AN ENGINEER'S CERTIFICATE OF COMPLETION IS REQUIRED BY A.D.E.Q. FOR ALL WATER SYSTEM CONSTRUCTION.

5.4 SOILS COMPACTION TEST RESULTS MUST BE SUBMITTED TO THE ENGINEER'S OFFICE FOR ALL FILL MATERIAL FOR ROADS, TRENCH BACKFILL AND SITE FILL MATERIALS UNDER SLABS AND STRUCTURES. NO FILL MATERIALS SHALL BE PLACED WITHOUT TESTING DURING PLACEMENT. NO EARTH MATERIAL SHALL BE PLACED WITHOUT APPROVAL OF THE PREVIOUS LIFTS. THE CONTRACTOR SHALL SUBMIT ALL TEST RESULTS TO THE ENGINEER AND GOVERNMENTAL AGENCIES.

5.5 CONTRACTOR SHALL SUBMIT A SCHEDULE, APPROVED IN WRITING BY A QUALIFIED CONSULTING TESTING AGENCY, FOR FREQUENCY, LOCATION AND TYPE OF ALL PROJECT TESTING. THE CONTRACTOR WILL BE RESPONSIBLE FOR SCHEDULING AND COORDINATION OF ALL TESTING INCLUDING THE FOLLOWING ITEMS WHICH SHALL BE TESTED IN ACCORDANCE WITH MAG SPECIFICATIONS:

- SUBGRADE COMPACTION
- BASE COURSE COMPACTION
- ASPHALT PAVEMENT MIX DESIGN QUALITY
- CONCRETE STRENGTH
- TRENCH BEDDING AND BACKFILL
- TESTING FOR UTILITIES, PIPING AND DRAINAGE SYSTEMS

5.6 THE CITY SHALL BE NOTIFIED BY THE CONTRACTOR 24 HOURS PRIOR TO BEGINNING DIFFERENT PHASES OF CONSTRUCTION SO THAT INSPECTIONS MAY BE SCHEDULED.

## 6 FINAL ACCEPTANCE

6.1 FINAL ACCEPTANCE OF THE CONSTRUCTION, BY THE TOWN ENGINEER, IS REQUIRED BEFORE RELEASING OF A PERMIT AND OR TRANSFERRING OWNERSHIP OF THE IMPROVEMENTS.

6.2 APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL WRITTEN FINAL ACCEPTANCE OF A COMPLETE WORKABLE UNIT. ACCEPTANCE OF COMPLETED IMPROVEMENTS WILL NOT BE GIVEN UNTIL DEFECTIVE OR UNAUTHORIZED WORK IS REMOVED, AND FINAL CLEANUP IS COMPLETE.

## 8 CONSTRUCTION STAKING

8.1 THE ACCURACY OF ALL CONSTRUCTION WORK SHALL BE MAINTAINED AND VERIFIED BY A REGISTERED SURVEYOR IN THE STATE OF ARIZONA BY PROVIDING CONSTRUCTION STAKING SUITABLE TO THE CITY ENGINEER. STAKES WILL BE SET ESTABLISHING LINES AND GRADES (FINISH OR FLOWLINES) FOR ALL CONSTRUCTION INCLUDING ROADS, CURB AND GUTTER, SIDEWALKS, UTILITIES, STRUCTURES, AND OTHER WORK AS CONSIDERED NECESSARY BY THE ENGINEER. ALL SURVEY CONTROL SHALL BE SET BY A REGISTERED SURVEYOR FROM MONUMENTS ACCEPTABLE TO THE ENGINEER.

## 9 GRADING AND EARTHWORK

9.1 PERFORM ALL EARTHWORK GRADING, CUTTING AND FILLING AS PER THE PROJECT SOILS REPORT AND ALL ADDENDA

9.2 NO GRADING OR TRENCHING WORK SHALL BEGIN PRIOR TO SUPPORTING AND PROTECTING EXISTING DMSITE AND ADJACENT PROPERTY FROM SETTling, CRACKING, OR OTHER DAMAGE WHICH MIGHT RESULT. CONTRACTOR SHALL VERIFY FROM SOILS REPORT RECOMMENDATIONS THE DEGREE OF DIFFICULTY REQUIRED FOR TRENCHING AND EXCAVATION WORK BASED ON DEPTH AND TYPES OF MATERIALS TO BE ENCOUNTERED.

9.3 WATER SOURCE: THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR OBTAINING ALL WATER REQUIRED FOR SOIL COMPACTION, DRINKING PURPOSES AND DUST CONTROL. (MAG SPEC 225)

9.4 CLEARING AND GRUBBING: EXAMINE SITE AND PROVIDE NECESSARY EQUIPMENT AND LABOR TO REMOVE FROM THE SITE AND DISPOSE OF STUMPS, ROOTS, ROCKS, LOOSE FILL, VEGETATION, DEBRIS, AND ANY OTHER OBJECTIONABLE MATERIALS FROM THE BUILDING AND FILL AREAS. CLEAN, UNCLASSIFIED DMSITE SOILS MAY BE USED IN GENERAL AS FILL MATERIAL. SEE MAG SPECIFICATION SECTIONS 201 AND 215.

9.6 SITE DRAINAGE: CONSTRUCTION OF ALL SWALES, CHANNELS, DRAINAGE PIPES, DRAINAGE STRUCTURES AND BANK PROTECTION SHALL BE CONSTRUCTED DURING THE FIRST PHASES OF SITE CONSTRUCTION TO PROTECT ALL OTHER CONSTRUCTION FROM SURFACE WATERS. DIVERT RUNOFF WATER AROUND CONSTRUCTION OPERATIONS. CARE SHALL BE TAKEN BY THE CONTRACTOR NOT TO ADVERSELY AFFECT ADJACENT PROPERTIES. DRAIN EXCAVATIONS BY PUMPING OR OTHER SATISFACTORY METHOD TO PREVENT SOFTENING OF THE FOUNDATION SOILS, UNDERCUTTING OF FOOTING OR OTHER ACTIONS DETRIMENTAL TO PROPER CONSTRUCTION PROCEDURES.

9.7 THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL WALLS FOUNDATIONS. ALL STORM DRAINS, DRAIN LINES, OVERFLOWS, OUTLETS AND/OR OTHER DRAINAGE TYPE OUTLETS WHICH CONDUCT MOISTURE NEAR THE STRUCTURES SHALL BE POSITIVELY DRAINED AWAY FROM THE STRUCTURE. NO WATER SHALL BE PERMITTED TO POND NEAR STRUCTURES OR FOUNDATIONS. ALL DRAINAGE SHALL BE CHanneLED AND TAKEN A MINIMUM OF 10 FEET AWAY FROM ALL STRUCTURES.

9.8 SUBGRADE PREPARATION: IF THE NATURAL SUBGRADE IS LESS THAN THE REQUIRED DENSITY, IT SHALL BE SCARIFIED AND COMPACTED TO A MINIMUM DEPTH OF TWELVE INCHES OR AS NOTED IN THE SOILS REPORT IMMEDIATELY PRIOR TO PLACING SUBSEQUENT FILL MATERIAL THEREON. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND REPAIR OF DAMAGE TO PREPARED SUBGRADE CAUSED BY CONTRACTORS OPERATIONS OR PUBLIC TRAFFIC UNTIL ACCEPTANCE OF PROJECT ENGINEER. NO MATERIALS SHALL BE PLACED UPON THE PREPARED SUBGRADE UNTIL IT MEETS THE SPECIFIED REQUIREMENTS. ROADWAY SUBGRADE COMPACTION INCLUDES SUBGRADE UNDER ALL PAVEMENT, CURB, SIDEWALKS, SHOULDERS AND FILL SLOPES. SUBGRADE TOLERANCES SHALL BE AS SPECIFIED IN MAG SECTION 301. OPEN LANDSCAPED AREAS SHALL BE GRADED TO +/- 0.20 FEET.

9.9 EARTH FILL AREAS TO BE FILLED SHALL BE LEVELED TO PROVIDE A LEVEL BASE TO SUPPORT FILL MATERIALS. SUBGRADE AND SUBBASE AREAS REQUIRING FILL MATERIAL SHALL BE SCARIFIED, MOISTENED AND COMPACTED PRIOR TO PLACING FILL. ALL FILL, SUBGRADE AND SUBBASE MATERIALS SHALL BE COMPACTED TO SPECIFIED DENSITIES AT OR NEAR OPTIMUM MOISTURE CONTENTS AS VERIFIED AND RECOMMENDED BY THE SOILS ENGINEER. PLACE FILL IN HORIZONTAL LIFTS NOT EXCEEDING EIGHT INCHES IN LOOSE THICKNESS BEFORE COMPACTION. SLOPED SURFACES SHALL BE PLOWED, STEPPED AND BENCHMARKED SO THAT THE FILL MATERIAL WILL BOND WITH THE EXISTING MATERIAL. BENCH AT THE TOE OF FILL SLOPES AND PERIODIC INTERVALS UP THE FILL SLOPES BENCHES.

9.10 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE SOILS ENGINEER FOR SCHEDULING OF COMPACTION TESTING. THE FREQUENCY OF DENSITY AND MOISTURE TESTS REQUIRED FOR ADEQUATE CONTROL SHALL BE THE RESPONSIBILITY OF THE SOILS ENGINEER WHO SHALL CERTIFY TO THE ENGINEER AND CONTRACTOR AT PROJECT END THAT THE ROADBED FILL IS COMPACTED AS OUTLINED HEREIN. COMPACTION SHALL BE ACHIEVED BY MECHANICAL MEANS. IN NO CASE SHALL STRUCTURE BACKFILLING BE FLOOD WATER SETTLED.

9.11 ALL SLOPE CONSTRUCTION AND ROADWAY EXCAVATION SHALL CONFORM TO THE REQUIREMENTS OF MAG SPECIFICATIONS SECTIONS 201, 205, 212, 301 AND UBC SECTIONS 7009 AND 8010. CUT AND FILL SLOPES SHALL BE AS INDICATED ON THE DETAILS AND PLANS. CUT AND FILL SLOPE GRADIENTS SHALL NOT EXCEED 2:1 IN STEEPNESS WITHOUT WRITTEN AUTHORIZATION FROM THE SOILS ENGINEER AND EXAMINATION BY THE DESIGN ENGINEER. ALL SLOPE CONDITIONS SHALL BE PROVIDED WITH THE APPROPRIATE BENCHES AS SPECIFIED IN THE REFERENCE DOCUMENTS AND INDICATED ON THE PLANS. IF SOILS CONDITIONS ARE ENCOUNTERED WHICH DO NOT ALLOW THE ESTABLISHMENT OF THE INDICATED CUT OR FILL SLOPES, THE DESIGN ENGINEER AND SOILS ENGINEER SHALL BE CONTACTED IMMEDIATELY TO DETERMINE AN ADJUSTMENT TO THE SLOPE GRADIENT OR TO ESTABLISH A METHOD OF STABILIZATION. ALL FILL SLOPES SHALL BE COMPACTED AS EACH LIFT OF FILL MATERIAL IS PLACED. ALL CUT AND FILL SLOPES SHALL BE UNIFORMLY GRADED TO LINES AND GRADES INDICATED. TOPS OF ALL CUT SLOPES SHALL BE ROUNDED AND ALL UNSTABLE AND LOOSE MATERIAL AT TOP OF SLOPE SHALL BE REMOVED. TOP OF CUT SLOPES OVER 10' HIGH SHALL BE PROVIDED WITH BROW DITCHES FOR DRAINAGE. ALL CUT AND FILL SLOPES SHALL BE REVEGETATED WITH A MIXTURE OF NATIVE GRASSES AND WILD FLOWER SEED OR AS SPECIFIED WITHIN THE LANDSCAPE PLANS. COMPACT ALL SHOULDERS AND BACKFILLS BEHIND ALL STRUCTURE AND WALLS.

9.12 COMPACT TO THE FOLLOWING SPECIFIED PERCENT OF MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D698 AND MAG SECTION 211 OR AS DIRECTED IN THE SOILS REPORT.

MINIMUM PERCENT COMPACTION  
ROADWAY AND STRUCTURE AREAS-----95  
PAVED AREAS (PAVEMENTS, SIDEWALKS, & PADS)-----95  
ROADWAY AND STRUCTURE AREAS-----95  
PAVED AREAS (PAVEMENTS, SIDEWALKS, & PADS)-----95  
GRASSED AND PLANTING AREAS-----85  
AGGREGATE BASE COURSE-----100  
BACKFILL AROUND STRUCTURES-----95  
BACKFILL FOR UTILITY TRENCHES (PER MAG SECTION 601). PROVIDE TYPE 1 BACKFILL OR AS DIRECTED BY APPROPRIATE UTILITY REQUIREMENTS. BACKFILL FOR TRENCHES WITHIN 10' OF STRUCTURES AND WALLS SHALL BE COMPACTED TO 95% UNLESS DIRECTED OTHERWISE BY ENGINEER.

9.13 EXCAVATION: EXCAVATE TO THE DIMENSIONS AND DEPTHS INDICATED ON THE DRAWINGS. FOUNDATIONS SHALL REST ON ENGINEERED COMPACTED FILL OR UNDISTURBED NATURAL SOILS AT GRADE ELEVATIONS INDICATED. IF SUITABLE SOIL IS NOT REACHED AT THE DEPTHS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE SOILS ENGINEER AND ENGINEER. THE CONTRACTOR WILL BE DIRECTED, IN WRITING, TO EXCAVATE TO THE DEPTH OF SUITABLE SOIL. EXCAVATION FOR FOUNDATION WHICH ARE CARRIED BELOW THE DEPTH INDICATED SHALL HAVE THE CONCRETE EXTENDED TO THE BOTTOM OF THE EXCAVATION AT THE CONTRACTOR'S EXPENSE. SEE MAG SPECS SECTION 206.

9.14 WATERING: CAREFULLY WATER EARTH FILL DURING PLACING BY MEANS OF A FINE SPRAY OR OTHER APPROVED METHOD, SO THAT EACH LAYER IS THOROUGHLY AND UNIFORMLY WEITED. MOISTURE CONTENT OF THE MATERIAL SHALL BE CAREFULLY CONTROLLED AT ALL TIMES AND CHECKED AT PROPER INTERVALS TO INSURE CORRECT MOISTURE FOR COMPACTION SPECIFIED. SEE MAG SECTION 225 AND SOILS REPORT.

## 11 FIELD INSPECTION

11.1 THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL STAKES, REFERENCE AND CONTROL POINTS, ETC. AGAINST DESTRUCTION AND SHALL PROMPTLY NOTIFY THE ENGINEER OF ANY STAKES WHICH HAVE BEEN DISTURBED.

11.2 THE REGISTERED SURVEYOR SHALL BE NOTIFIED TWO WORKING DAYS (48 HOURS) MINIMUM PRIOR TO FIELD STAKING SCHEDULING.

## 12 SUSPENSION OF WORK

12.1 THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN HIS JUDGMENT, PROGRESS IS UNSATISFACTORY. WORK BEING DONE IS UNAUTHORIZED OR DEFECTIVE, WEATHER CONDITIONS ARE UNSUITABLE, OR THERE IS DANGER TO THE PUBLIC HEALTH OR SAFETY.

## 13 WARRANTY

13.1 ANY DEFECTS WHICH APPEAR IN THE WORK WITHIN TWO YEARS FROM THE DATE OF ACCEPTANCE AND WHICH ARE DUE TO IMPROPER WORKMANSHIP OR INFERIOR MATERIALS SUPPLIED SHALL BE CORRECTED BY OR AT THE EXPENSE OF THE CONTRACTOR.

## 14 EROSION CONTROL NOTES

NO APPLICABLE NOTES

## 15 TEMPORARY EROSION CONTROL

15.1 EROSION CONTROL BERMS AND ROCK CHECK DAMS  
A. PROVIDE EARTHEN BERMS AT TOES OF SLOPES REMAINING BARE BETWEEN CONSTRUCTION PHASES.  
B. PLACE TEMPORARY ROCK CHECK DAMS IN ROAD DITCHES AND CHANNELS IF RIP-RAP PROTECTION WILL NOT BE PROVIDED WITHIN 60 DAYS.

15.2 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EROSION CONTROL MEASURES SUCH AS SAND BAGGING, TEMPORARY DE-SILTING BASIN CONSTRUCTION BERMS, VISQUEEN, ETC. TO PROTECT ADJOINING PROPERTIES FROM EROSION.

## 16 SURVEY AND PROJECT DATUM

THE TOPOGRAPHIC SURVEY USED IN THESE PLANS WAS PERFORMED BY ARIZONA LAND SOLUTIONS, 2673 N. DAKMONT, FLAGSTAFF, AZ. JOB NO. 21-192 DATED 10/18/2021. THE BASIS FOR ELEVATIONS IS CITY OF SEDONA BENCHMARK 84, NE CORNER SEC. 13, GLD BC 1949, ELEVATION 4471.63

## 17 GENERAL CONSTRUCTION NOTES

17.1 ALL CONCRETE AND REBAR PER MAG SPEC 505.

17.2 CONCRETE TESTING PER MAG SPEC 725

17.3 ALL CONCRETE TO BE CLASS AA IF NOT SPECIFIED.

17.4 MINIMUM COVER ON ALL REBAR TO BE 2" UNLESS OTHERWISE SPECIFIED.

17.5 MINIMUM LAP AT REBAR SPLICES TO BE 12" UNLESS OTHERWISE SPECIFIED.

17.6 CONTRACTOR SHALL SCHEDULE "PRECONSTRUCTION MEETING" WITH SPECIAL INSPECTOR, SEC INC, GEOTECHNICAL ENGINEER, & CONCRETE SUBCONTRACTOR PRIOR TO CONSTRUCTION.

17.7 ALL COMPACTION SHALL BE 95% STANDARD PROCTOR.

17.8 MATERIALS  
CONCRETE: F'c=4000 psi (MAG CLASS AA)  
REINFORCING: Fy=40,000 (GRADE 40)

17.9 EXPANSION JOINTS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 20'.

17.10 CONSTRUCTION JOINTS SHALL BE SPACED NOT MORE THAN 20' APART & WITHIN 10' OF CORNERS.

## 18 SITE PLAN

THE SITE LAYOUT SHOWN IN THESE PLANS WAS PROVIDED BY THE DEVELOPER. EVALUATION OF THE HOUSE ORIENTATION & VEHICULAR ACCESS WAS NOT IN THE SCOPE OF WORK BY SEC, INC AND IS EXPLICITLY EXCLUDED FROM ANY LIABILITY IN REGARDS TO SUITABILITY AND FUNCTION. GEOTECHNICAL ENGINEERING AND STRUCTURAL DESIGNS ARE EXCLUDED FROM THE WORK PERFORMED BY SEC, INC.

## 19 DRAINAGE MAINTENANCE

IT IS THE RESPONSIBILITY OF THE OWNER TO INSPECT AND MAINTAIN THE DRAINAGE SYSTEM, INCLUDING THE DITCHES, DETENTION PONDS, WEEP LINES AND EMERGENCY OVERFLOW SPILLWAYS PERIODICALLY. IT IS HIGHLY RECOMMENDED TO IMPLEMENT A MAINTENANCE SCHEDULE AND ACTION PLAN TO PROVIDE THE NECESSARY MAINTENANCE TO ENSURE THEY FUNCTION PROPERLY.

SEE GENERAL NOTE 3.1 PRIOR TO CONSTRUCTION

### JEROME DRAINAGE IMPROVEMENTS GULCH ROAD



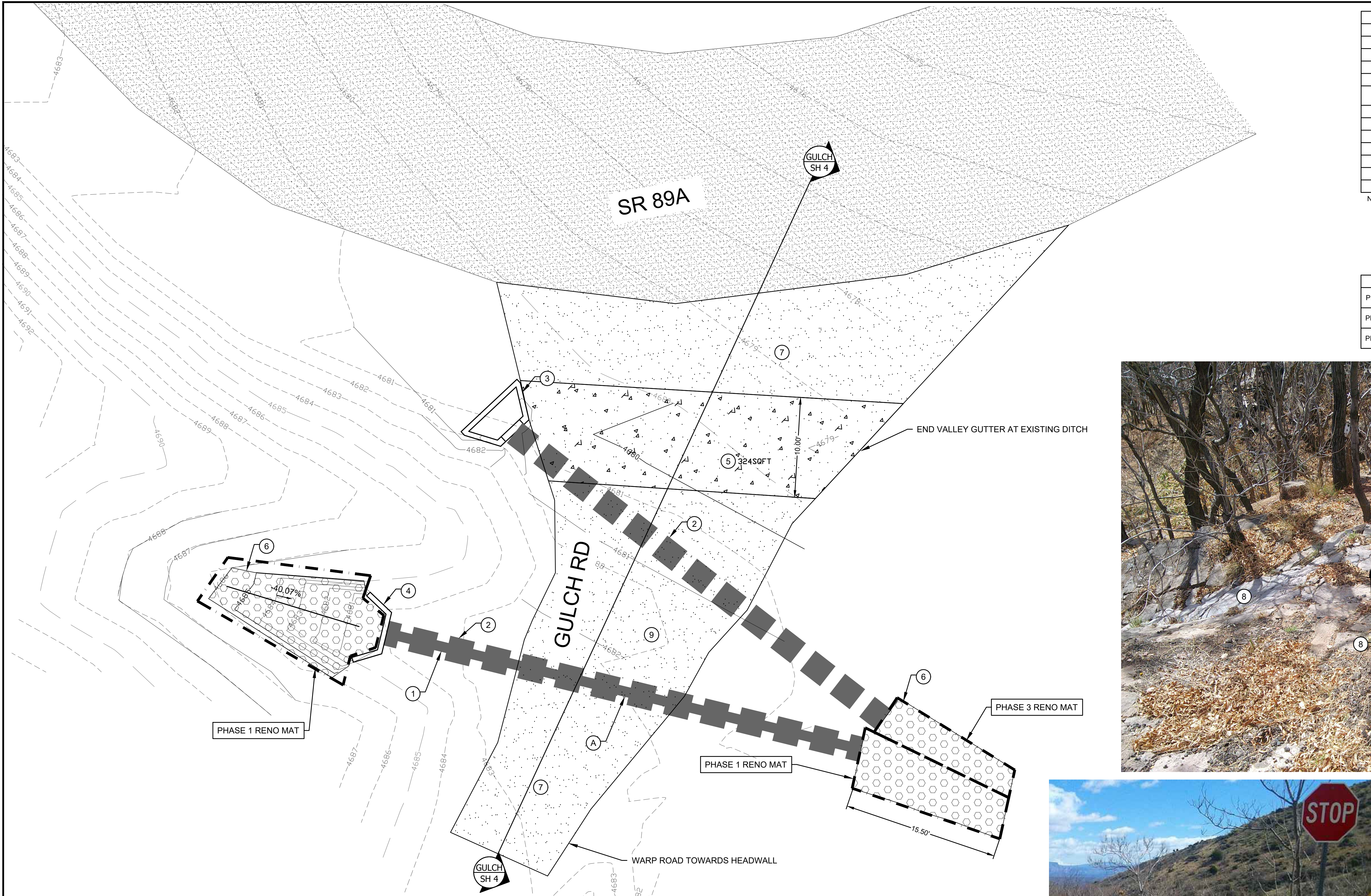
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COTTONWOOD, AZ 86326  
(928) 282-7787

#### NOTES

DATE	DRAWN	SHEET
5/22/25	RIN	2 OF 5
SCALE	CHECKED	PROJECT NO.
AS SHOWN	KG	25-0105E



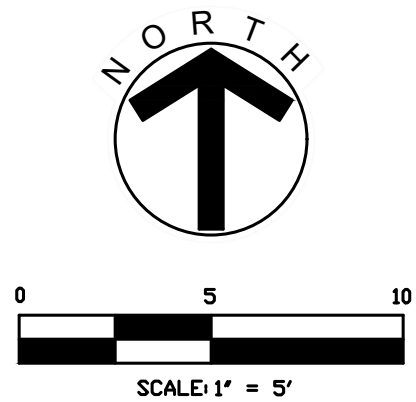




CALL OUTS	
A	EXISTING CMP
B	EXISTING DITCH
1	REMOVED EXISTING CMP.
2	INSTALL NEW 24" EQUIVALENT ELLIPTICAL CMP.
3	INSTALL NEW HEADWALL DROP INLET PER MAG 501-5 WITH TRASH RACK PER MAG 502-1 & 2 SEE SHEET
4	INSTALL NEW 30" HEADWALL PER MAG 501-1
5	NEW VALLEY GUTTER, 10:1 SLOPE. CLASS A CONCRETE
6	RENO MAT
7	6" AB OVER 4" ASPHALT
8	REMOVE AND REPLACE EXISTING STONES AS REQUIRED
9	REMOVE EXISTING SPEED BUMP
10	RIP RAP

- NOTES
- ELEVATIONS ARE RELATIVE TO NAVD88
  - HWY 89A RIGHT OF WAY IS PER ADOT
  - RENO MATTRESS ROCK: D50=8" X 6" THICK. PROVIDE GEOTEXTILE FABRIC UNDERLAY
  - ALL RIP RAP TO BE D50=6" X 12" DEEP w/ GEOTEXTILE FABRIC UNDERLAY UNLESS OTHERWISE NOTED.

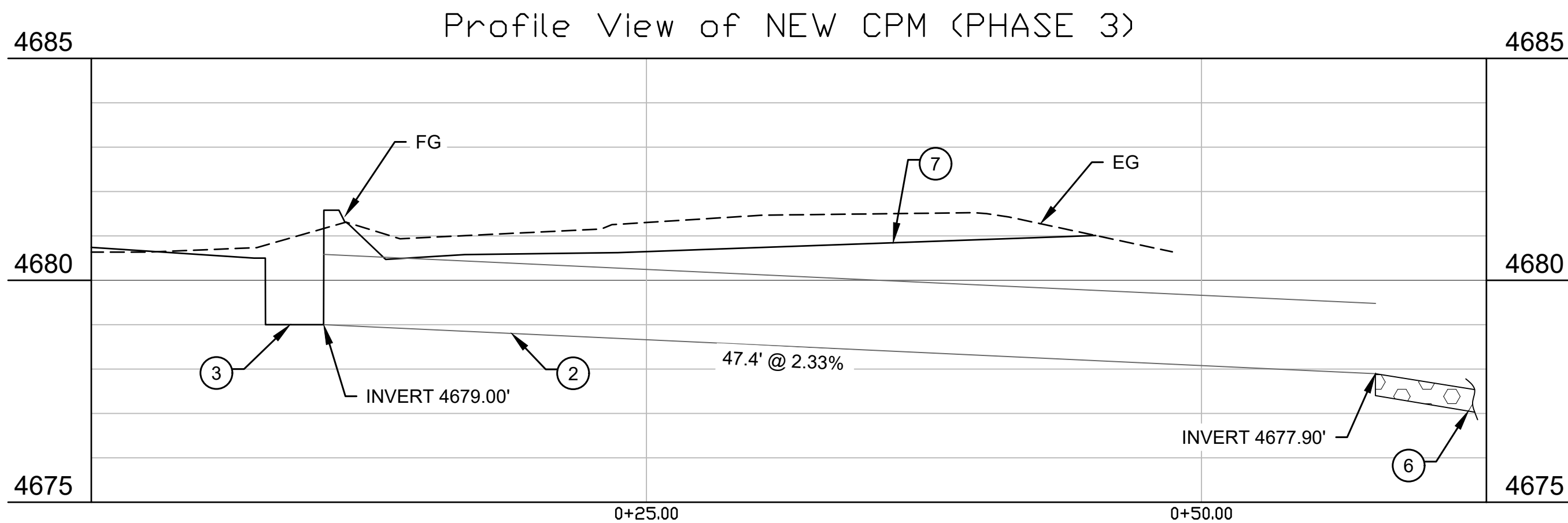
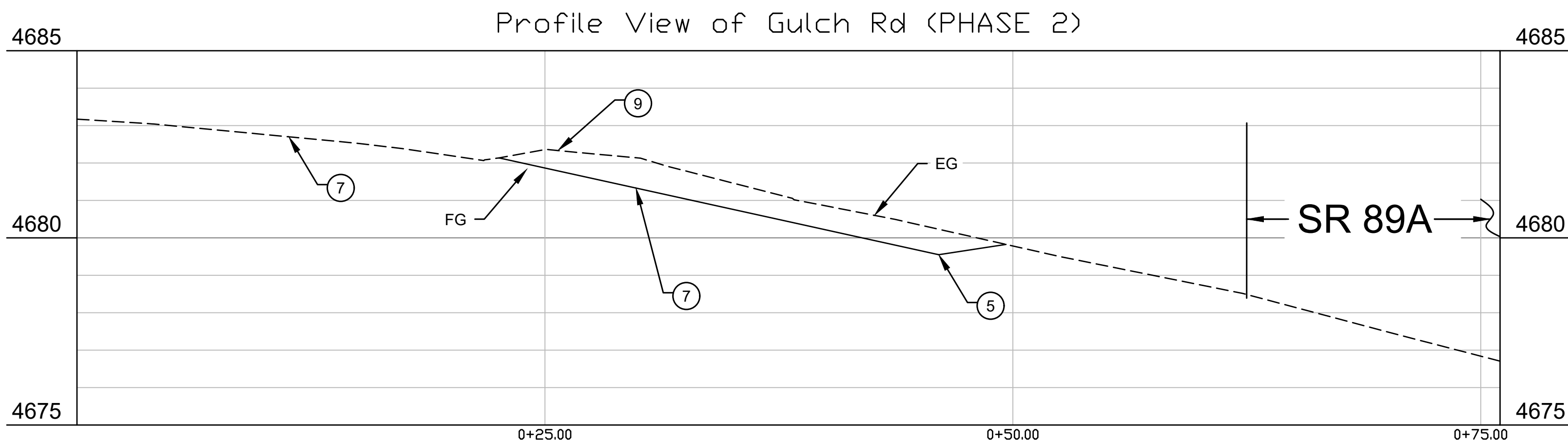
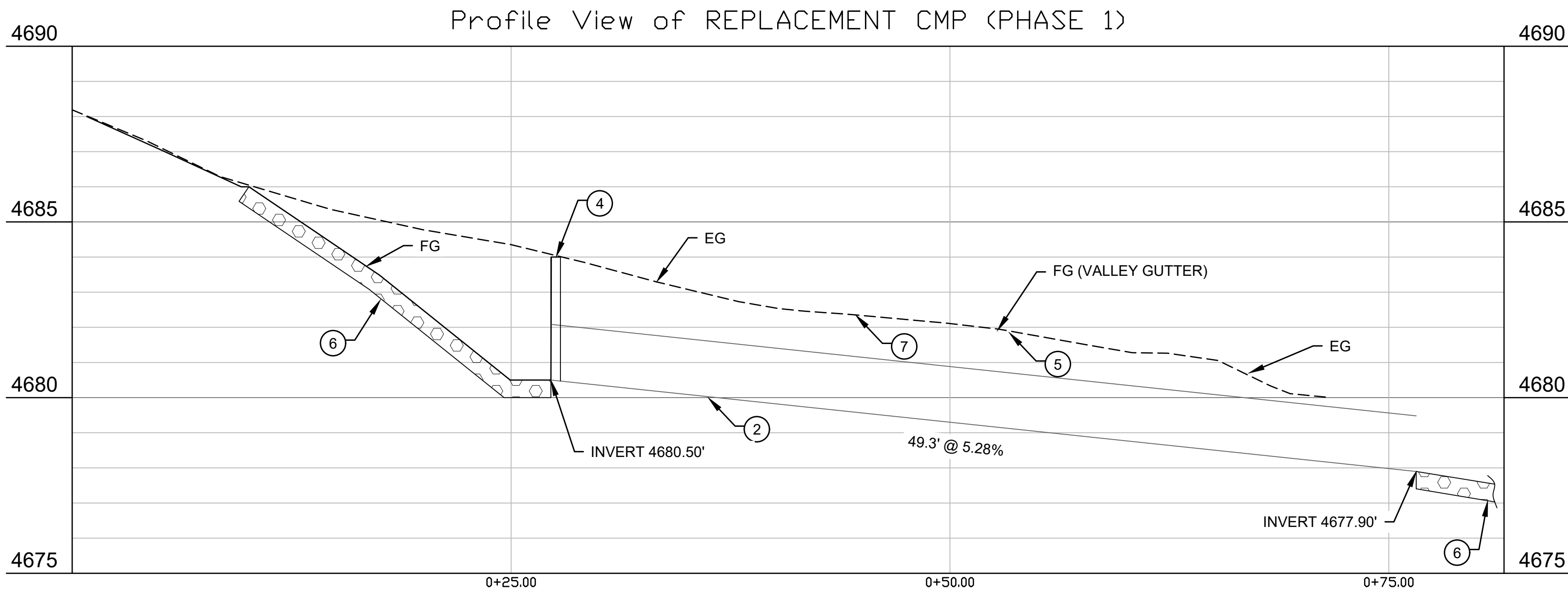
PROJECTS	
PROJECT 1	REPLACE EXISTING CMP, INSTALL 30" HEADWALL, & INSTALL RENO MAT ITEMS 1, 2, 4, 6, & 8
PROJECT 2	INSTALL VALLEY GUTTER, ASPHALT, & RIP RAP ITEMS 5, 7, 9, & 10
PROJECT 3	INSTALL CMP, INSTALL NEW HEADWALL DROP INLET, & INSTALL RENO MAT ITEMS 2, 3, 6, & 8



SEE GENERAL NOTE 3.1 PRIOR TO CONSTRUCTION  
JEROME DRAINAGE IMPROVEMENTS  
GULCH ROAD

SEC Inc.		SITE & GRADING PLAN	
825 COVE PARKWAY COTTONWOOD, AZ 86326 (928) 282-7787	DATE 5/22/25	DRAWN RIN	SHEET 3 OF 5
	SCALE AS SHOWN	CHECKED KG	PROJECT NO. 25-0105E





CALL OUTS	
A	EXISTING CMP
B	EXISTING DITCH
1	REMOVED EXISTING CMP.
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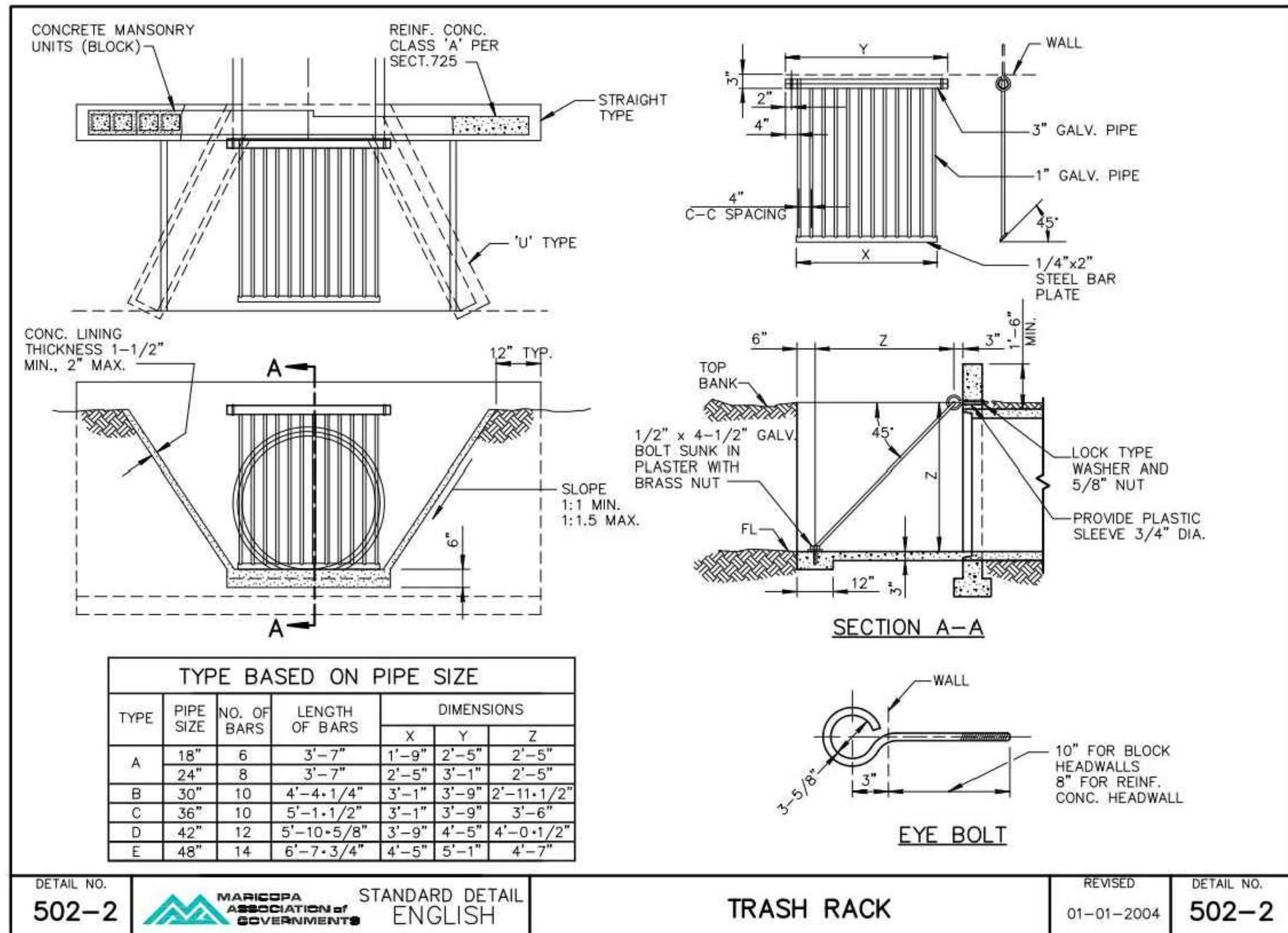
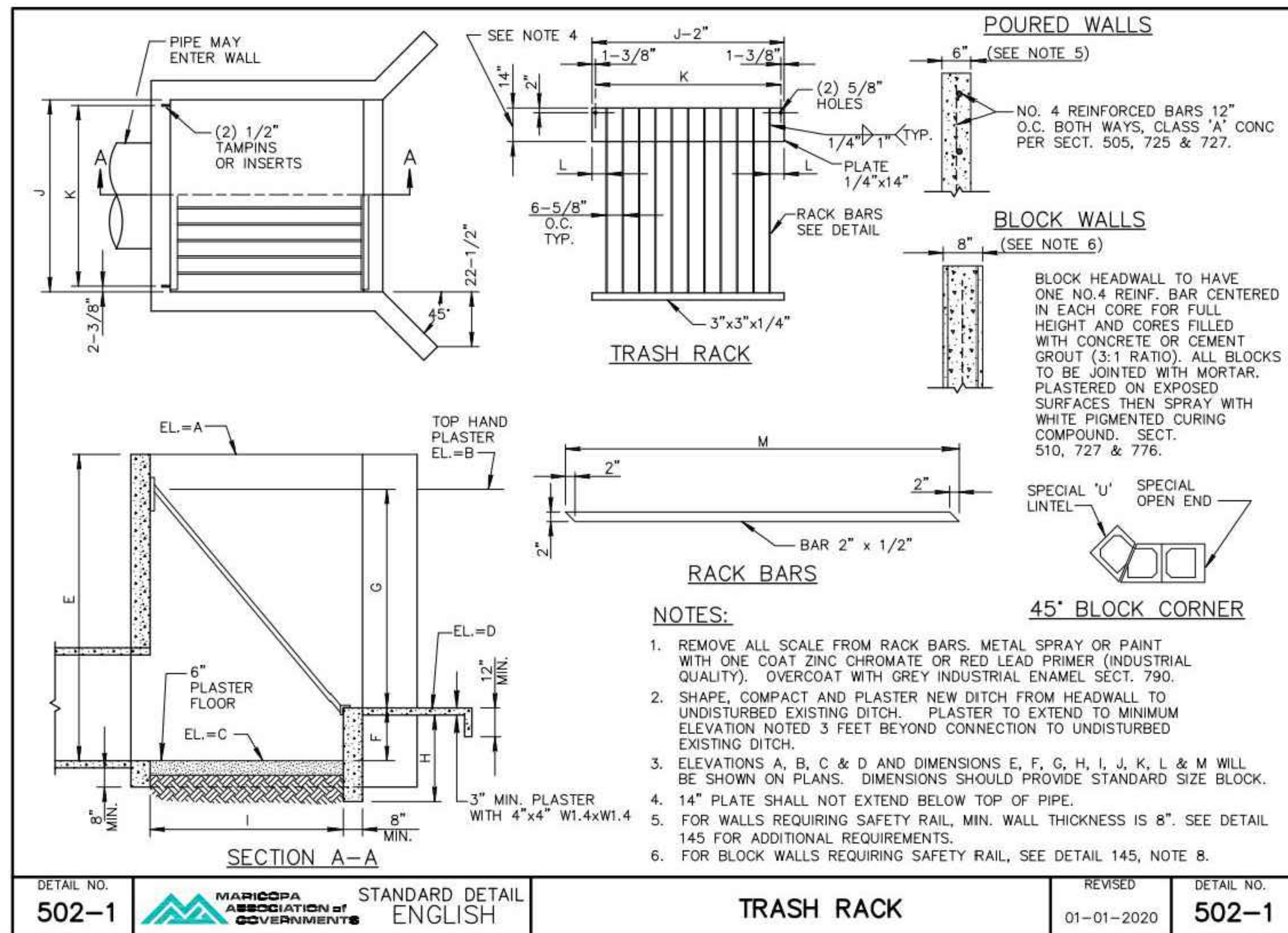
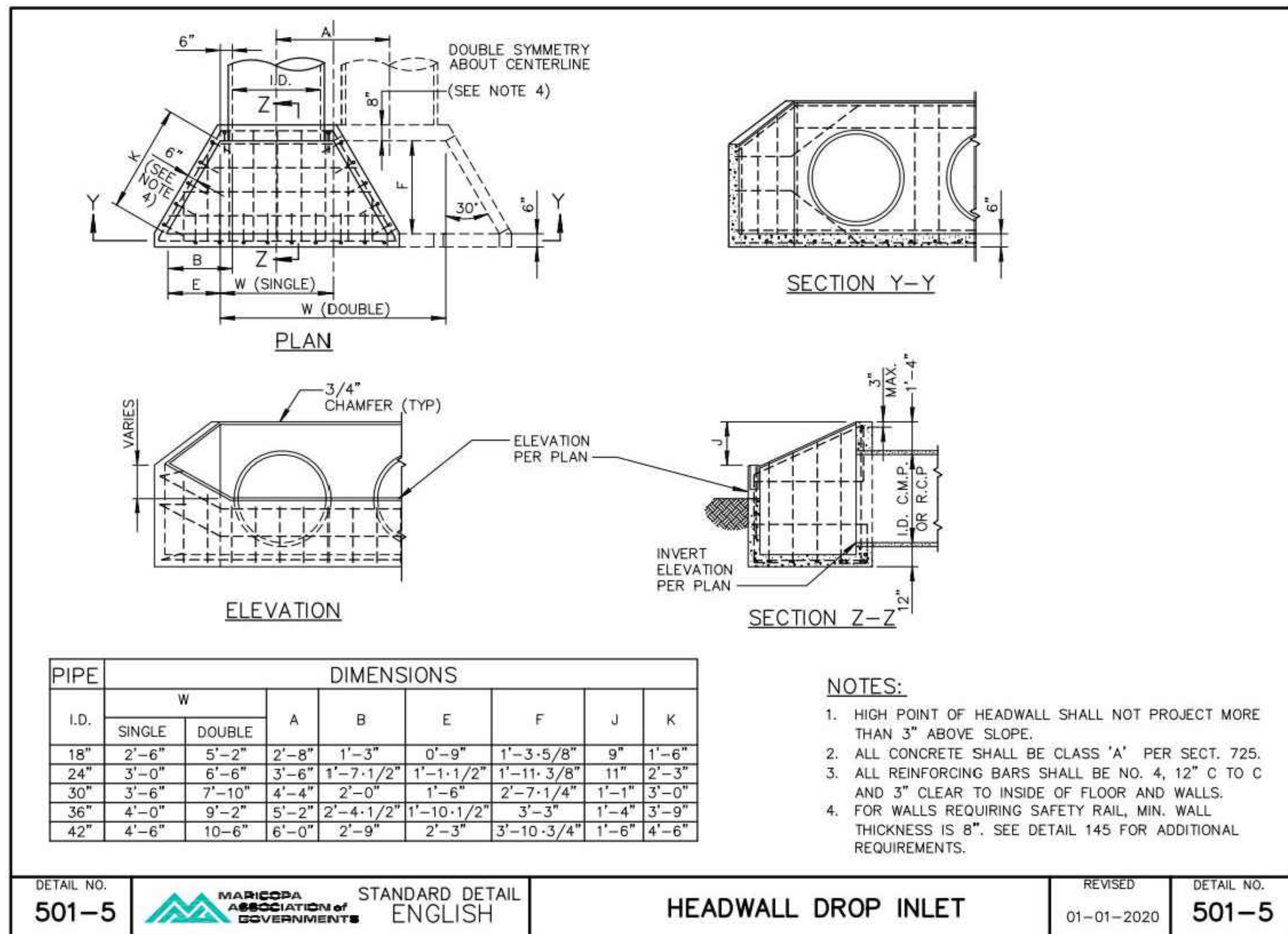
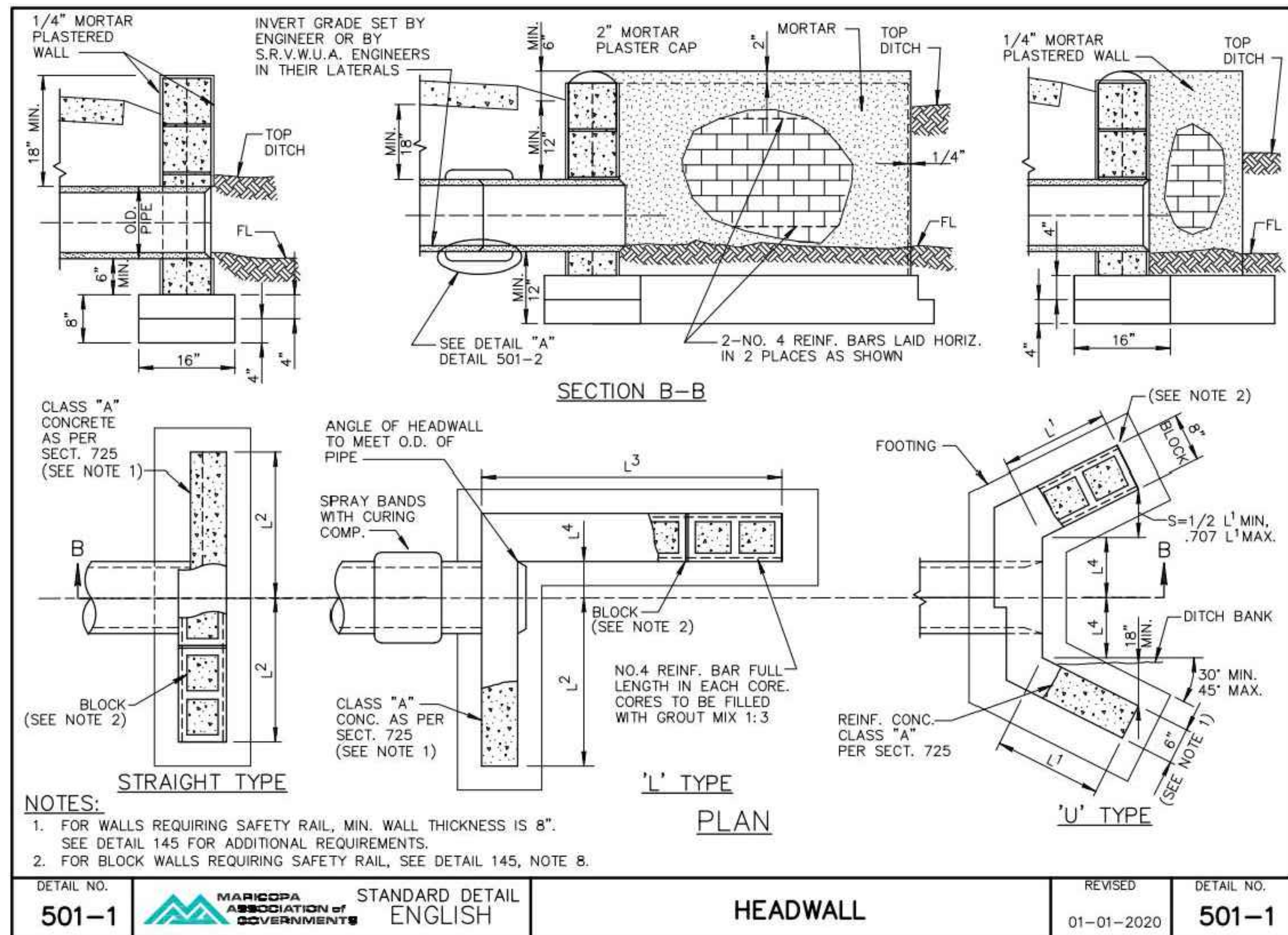


SEE GENERAL NOTE 3.1 PRIOR TO CONSTRUCTION

JEROME DRAINAGE IMPROVEMENTS  
GULCH ROAD

SEC Inc.		PROFILE	
 825 COVE PARKWAY COTTONWOOD, AZ 86326 (928) 282-7787	DATE	DRAWN	SHEET
	5/22/25	RIN	4 OF 5
	SCALE	CHECKED	PROJECT NO.
	AS SHOWN	KG	25-0105E





**SEE GENERAL NOTE 3.1 PRIOR TO CONSTRUCTION**

**JEROME DRAINAGE IMPROVEMENTS**  
GULCH ROAD

**DETAILS**

DATE 5/22/25	DRAWN RIN	SHEET 5 OF 5
SCALE AS SHOWN	CHECKED KG	PROJECT NO. 25-0105E

**SEC**  
825 COVE PARKWAY  
COTTONWOOD, AZ 86326  
(928) 282-7787

**48108 KRISHAN GEVINDA CIVIL ENGINEER**  
STATE OF ARIZONA, U.S.A.