

## **ADDENDUM #1**

*June 23, 2016*

# **CDBG PY15-003** **West Yavapai Guidance Clinic** *Drainage and Parking Lot Improvements*

**PREPARED BY:**

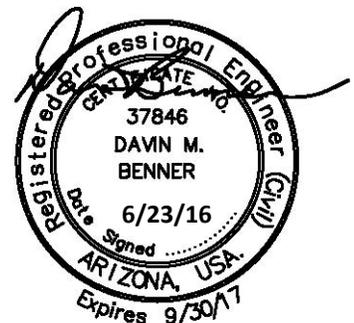
CITY OF PRESCOTT, ARIZONA

Community Development, CDBG Program Administration

928-777-1143

**BID DUE DATE:**

**June 30, 2016, 2:00 p.m.**



## A. Pre-Bid Conference

1. The mandatory pre-bid conference and walk-through was held at the West Yavapai Guidance Clinic on Cortez, 505 South Cortez Street, Prescott, AZ 86303 at 10:00 am on June 20, 2016.
2. Contractor attendance is summarized in the following table. A scanned copy of the sign-in sheet is included in Appendix A.

<b>Name</b>	<b>Company</b>	<b>City/Town</b>	<b>Phone/Email</b>
<i>Gary Shurtz</i>	<i>Earth Resources Corporation</i>	<i>Dewey</i>	<i>928-775-2795 gary@ercarizona.com</i>
<i>Ed Reddell</i>	<i>Alliance Streetworks</i>	<i>Camp Verde</i>	<i>928-567-8696 ed@alliancestreetworks.com</i>
<i>Paul Peterson</i>	<i>Paul R Peterson Construction</i>	<i>Phoenix</i>	<i>602-248-7085 kpeterson@prpcaz.com</i>
<i>Chris Fogerty</i>	<i>Asphalt Paving &amp; Supply</i>	<i>Prescott Valley</i>	<i>928-772-6363 cfogerty@nicnd.com</i>
<i>Bob</i>	<i>Koyuk General Contractors</i>	<i>Prescott Valley</i>	<i>928-642-2791 bob@koyukgeneralcontractors.com</i>
	<i>SPE Systems</i>	<i>Prescott Valley</i>	

3. Also in attendance were Paul Fromholtz and Larry Pier of WYGC, Isabel Rollins from the City of Prescott and Davin Benner from Granite Basin Engineering.

4. Question: Are special inspections required?

Answer: Yes, inspections will be done by Granite Basin Engineering.

5. Question: Is QC required?

Answer: Yes, quality control and acceptance testing is required and considered incidental to construction in accordance with Section 106 (Control of Materials) of the Technical Specifications.

6. Question: Would a hot oil chip work instead of the slurry seal?

Answer: The proposed slurry seal bid alternate is a temporary measure intended to protect the existing pavement structure with remaining grant funds. Other pavement seal applications will be considered under a separate contract with WYGC.

7. Question: What about just doing a small section right, like the driveway entrance, instead of any slurry seal? Concrete might make more sense in this case since it might not be worth getting a small amount of asphalt.

Answer: Please refer to the answer provided in item 6.

8. Question: Do the number of trees need to be clarified?

Answer: Tree removal is represented on the plans for information purposes only; a number of tree clusters are represented with a single tree removal item for a project total of 11. Please note that the Contractor must verify all quantities and that tree removal is considered incidental to the work in accordance with Section 201 (Clearing and Grubbing) of the Technical Specifications.

9. Question: Hydroseed clarification?

Answer: Permanent erosion control to disturbed ground shall be done in accordance with the Plans (see Erosion Control Plan, Sheet 6 of 6). Erosion Control Item "E2" references ADOT BMPs EC-1 through EC-5 which includes seeding.

## **B. Follow-Up Questions**

1. Question: Is bid bond required?

Answer: Only a performance bond will be required as indicated in the bid packet.

2. Who pays for testing? P 6 says owner pays, P 132 says concrete testing is paid by contactor.

Answer: Quality control and acceptance testing is considered incidental to construction in accordance with Section 106 (Control of Materials) of the Technical Specifications.

3. Question: Will work be paid as a lump sum contract or by installed quantities? If by installed quantities, how are items 7 head wall and 8 site wall measured? (Note: My calculation for item 8 is about 620 SF including height of footing. Engineer's calc is 500 SF.) ( I don't know how the engineer measures the headwall in SF as there is vertical wall above the slab; there is also the slab, curb, stem wall and footing.)

Answer: The Contractor will be paid based on installed quantities. The area quantity for Item #7 (Headwall) is measured based on the square footage of concrete illustrated by the headwall detail, profile and section on Sheet 3 of 6 (reported area includes slab, vertical walls and toe). The area quantity for item #8 (Site Wall) is based on the square footage of stem above the footing illustrated by the wall elevation on Sheet 3 of 6. Please note we have similar findings when the footing is included in the measurement (490±SF for the stem and 130±SF for the footing).

4. What is correct quantity for item 10 grouted rip rap? Drawings say 130 CY, price sheet says 150 CY.

Answer: The correct quantity for Item #12 (Riprap) is 150 cubic yards. The quantity for Item #13 (Grouted Riprap) is reported as 4 cubic yards.

## **C. Clarifications**

1. Please note that much of the work occurs in the public Right-of-Way (ROW) along Cortez Street. Accordingly, the Contractor must possess all necessary license credentials to obtain a ROW permit from the City of Prescott.

#### **D. Plans**

1. The Plans issued with the bid packet do not reflect the revisions made in response to design review by the City of Prescott. The current City-approved Plans are included in Appendix B.

#### **E. Bid Packet**

1. Page 6: Replace part “1.” of item “D. Inspection and Testing of Materials” under “General Project Notes” with the following:

“All materials and equipment used in the construction of the project shall be subject to adequate inspection and testing in accordance with the Technical Specifications.”

2. Please replace “Bid Form B – Price Sheet” (Page 17) with the revised version included in the Appendix. The slurry seal bid alternate has been removed.

#### **F. Acknowledgement**

- a. Please remember to acknowledge addenda number(s) on “Bid Form A – Bidder Response Cover Sheet” (Page 16).

**APPENDIX A**

**PRE-BID CONFERENCE SIGN-IN SHEET**

**SIGN-IN SHEET**  
**WYGC DRAINAGE AND PARKING LOT IMPROVEMENTS**  
**PRE-BID MEETING, JUNE 20, 2016, 10:00 A.M.**

NAME	COMPANY	CITY/TOWN	PHONE/EMAIL
DARY SHURTZ	Earth Resources Corp	Dewey AZ	928 775 2795 gary@ercarizona.com
Ed Reivell	Alliance Structworks	Camp Verde AZ	928 567-8696 Ed@alliancestructworks.com
Paul Peterson	Paul R Peterson Const.	Aix	602-248-7085 Kpeterson@prpcar.com
JERRY JONES	GAC/CDBB	Prescott	928-308-2433 jrt@allstate360.com
CHRIS FOSERTY	ASPHALT PAVING & SUPPLY	Prescott Valley	(928) 772-6363 cfoserty@nicvd.com
LARRY PIER	WYGC MAINT SUPPLY	PRESCOTT	828-445-5211
Paul Fromholtz	W MGC	Prescott	928-710-0920
Isabel Rollins	City of Prescott	Prescott	isabel.rollins@preccog.org 928-778-2692
Davin Benner	Granite Basin Engy	Prescott	928 717 0171
KOYUK W	EN.CONT. 7251 E. LOBO WAY,		
PRESCOTT VALLEY	86314 928	642 2791 BOB@	KOYUK D.C. COM
S P L E S Y S T E M S	P.O. BOX 25902	PRESCOTT VALLEY AZ	863
W W S P E S Y S T E M S	S I N C . C O M		86312

# **APPENDIX B**

## **CURRENT CITY-APPROVED PLANS**

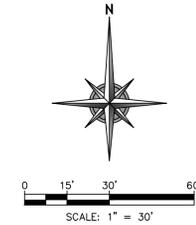
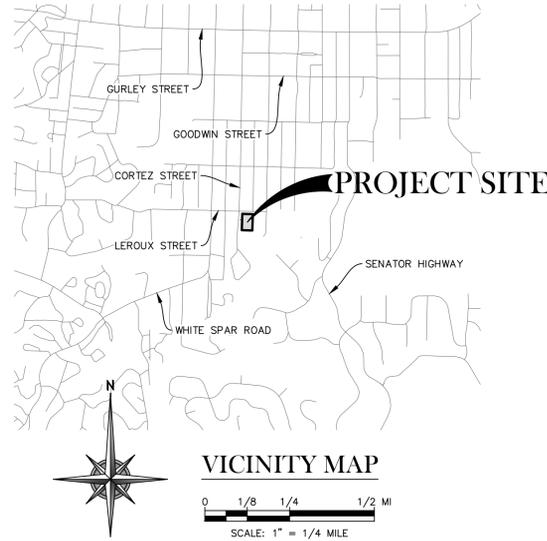
# WEST YAVAPAI GUIDANCE CLINIC CORTEZ FACILITY DRAINAGE IMPROVEMENT PLANS

505 SOUTH CORTEZ STREET  
APN: 109-13-001C, LOTS 2, 4, 6, 8 & 10 OF PRESCOTT ORIGINAL TOWNSITE  
LOCATED IN SECTION 4, TOWNSHIP 13 NORTH, RANGE 2 WEST GILA AND SALT RIVER MERIDIAN  
CITY OF PRESCOTT, YAVAPAI COUNTY, ARIZONA

**OWNER/DEVELOPER**  
WEST YAVAPAI GUIDANCE CLINIC, INC.  
3343 NORTH WINDSONG DRIVE,  
PRESCOTT VALLEY, ARIZONA 86314  
(928) 583-6411

**ENGINEER**  
GRANITE BASIN ENGINEERING, INC.  
1981 COMMERCE CENTER CIRCLE, SUITE B  
PRESCOTT, ARIZONA 86301  
(928) 717-0171

**FLOODPLAIN NOTE**  
THIS PROPERTY LOCATED WITHIN FEMA  
FIRM MAPNUMBER 04025C2065G AND  
IS DESIGNATED ZONE X



**APPROVED BY**

CITY ENGINEER	DATE
UTILITY MANAGER	DATE
PROGRAM DEVELOPMENT MANAGER	DATE

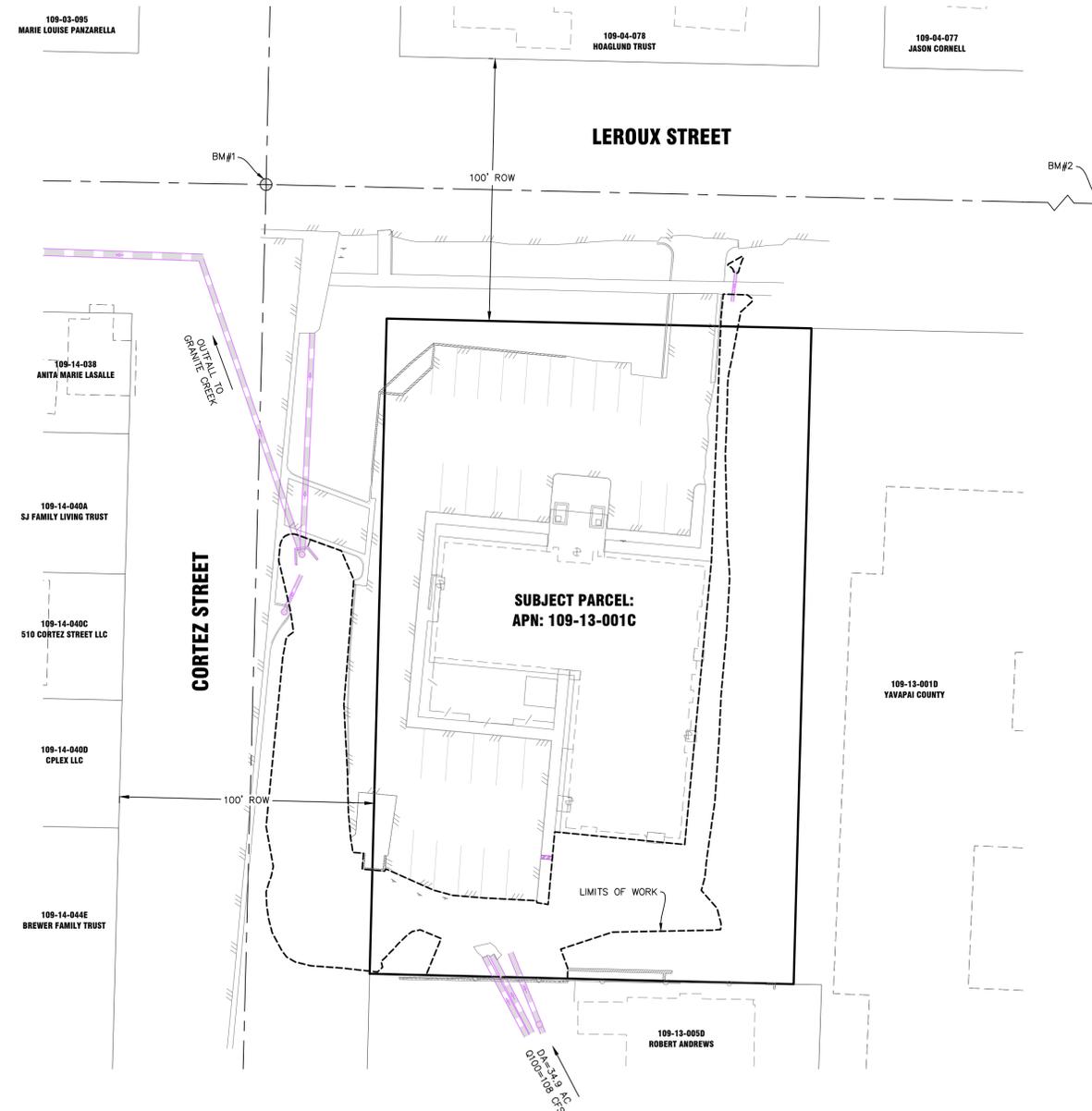
**BASIS OF BEARINGS & BENCHMARKS**

THE BASIS OF BEARING FOR THIS PROJECT IS S88°41'15.22"E A DISTANCE OF 424.976 FEET ALONG THE CENTERLINE OF LEROUX STREET BETWEEN TWO REBARS IN SURVEY HAND HOLES FROM THE INTERSECTION OF LEROUX STREET & CORTEZ STREET TO THE INTERSECTION OF LEROUX STREET & MARINA STREET

BENCHMARK POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION(88)
BM 1	HAND HOLE	585191.81	603336.19	5406.52
BM 2	HAND HOLE	585182.08	603761.06	5438.90

**UTILITY CONTACT INFORMATION**

UTILITY	CONTACT	PHONE
ARIZONA PUBLIC SERVICE 120 N. MARINA STREET PRESCOTT, AZ 86301	LINDA GUMMER	(928)776-3617
CENTURYLINK 1445 MASONRY WAY PRESCOTT, AZ 86301	KAREN PRUTZMAN	(928)776-2513
UNISOURCE 6405 WILKINSON DRIVE PRESCOTT, AZ 86301	VERA VIDOS	(928)771-7227
CABLE ONE 3801 TOWER RD. PRESCOTT, AZ 86301	JOHNNY CEDILLO	(928)443-3300 X 7111
CITY OF PRESCOTT WATER AND SEWER P.O. BOX 2059 , AZ 86301	CRAIG DOTSETH	(928)777-1130



**PROJECT SUMMARY**

THE PROJECT INCLUDES A COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAM (CDBG) FOR SITE DRAINAGE AND PAVING IMPROVEMENTS TO THE WEST YAVAPAI GUIDANCE CLINIC CORTEZ FACILITY. THE LIMITS OF WORK OCCUR ON THE PROPERTY AND SURROUNDING R.O.W. ALONG CORTEZ STREET AND LEROUX STREET.

THE SCOPE OF WORK IS GENERALLY FOCUSED ON EROSION CONTROL AND PERMANENT STABILIZATION OF ONSITE DRAINAGE INFRASTRUCTURE FOR CONVEYANCE OF OFFSITE RUNOFF IMPACTING THE SUBJECT PROPERTY. ADDITIONAL PAVING IMPROVEMENTS WILL BE DONE AS A BID ALTERNATE WITH REMAINING GRANT FUNDS.

OFFSITE RUNOFF ENTERS THE PROPERTY ALONG THE SOUTHERN BOUNDARY THROUGH (3) 24' CMP CULVERTS. THESE FLOWS ARE CONVEYED IN AN OPEN CHANNEL AROUND THE PARKING LOT, ALONG THE TOE OF THE ROAD EMBANKMENT ON THE EAST HALF OF THE CORTEZ STREET R.O.W.

SITE DRAINAGE IMPROVEMENTS GENERALLY INCLUDE A REINFORCED CONCRETE HEADWALL ON THE EXISTING CMP CULVERTS, SLOPE STABILIZATION ALONG THE ROAD EMBANKMENT, ARMORED CHANNEL IMPROVEMENTS, A SHORT SCREEN WALL TO PREVENT OVERFLOWS ONTO THE PARKING LOT, AND MINOR SITE GRADING TO ENHANCE POSITIVE DRAINAGE. PERTINENT DRAINAGE DESIGN CRITERIA ARE INCLUDED BELOW.

- HYDROLOGIC DATA:**
- CONTRIBUTING DRAINAGE AREA = 34.9 ACRES
  - RUNOFF COEFFICIENT (MOUNTAIN/HSG C/30% VEG) = 0.38
  - 100 YEAR RAINFALL INTENSITY = 8.14 IN/HR (TC = 10.6 MIN)
  - 100 YEAR PEAK FLOW = 108 CFS

- HYDRAULIC DATA:**
- HGL BASED ON MANNING'S EQUATION (n = 0.035)

REMAINING GRANT FUNDS WILL BE USED TO APPLY A PROTECTIVE SLURRY SEAL COATING TO THE EXISTING PAVEMENT. FUTURE PAVING IMPROVEMENTS WILL INCLUDE FULL REPLACEMENT OF THE EXISTING PAVEMENT STRUCTURE.

SHEET INDEX	
1	COVER
2	STANDARD NOTES & DETAILS, LEGEND & QUANTITIES
3	STRUCTURAL NOTES & DETAILS
4	SECTIONS, PROFILES & DETAILS
5	GRADING & DRAINAGE PLAN
6	EROSION CONTROL PLAN

CALL GRANITE BASIN ENGINEERING, INC. BEFORE ANY WORK BEGINS  
1-800-STAKE-IT  
1-800-782-5348  
(OUTSIDE MARICOPA COUNTY)

REVISIONS	DATE	BY	TD
1	4/29/16		

FOR REVIEW ONLY	FOR BID ONLY	FOR APPROVAL ONLY	FOR RECORDING ONLY	FOR CONSTRUCTION ONLY	FOR AS-BUILT ONLY
<input checked="" type="checkbox"/>	<input type="checkbox"/>				

**GRANITE BASIN ENGINEERING, INC.**  
1981 Commerce Center Circle, Suite B  
Prescott, AZ 86301  
928-717-0171

WEST YAVAPAI GUIDANCE CLINIC  
3343 NORTH WINDSONG DRIVE,  
PRESCOTT VALLEY, ARIZONA 86314  
WEST YAVAPAI GUIDANCE CLINIC  
DRAINAGE IMPROVEMENT PLANS  
COVER

Professional Seal of Granite Basin Engineering, Inc. (Civil)  
37845 M. DANNING  
4/29/16  
Arizona State Board of Professional Engineers and Land Surveyors

JOB:	15128
DATE:	5/18/2016
SCALE:	AS SHOWN
DRAWN:	TD
DESIGNED:	TD
CHECKED:	DB

**CITY OF PRESCOTT GENERAL NOTES**

- ALL CONSTRUCTION SHALL CONFORM TO MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) & CITY OF PRESCOTT (COP) CONSTRUCTION STANDARDS & SPECIFICATIONS, LATEST REVISIONS, UNLESS SPECIFICALLY APPROVED BY THE CITY AND MODIFIED ON THE PLANS, IN CONJUNCTION WITH THE LATEST REVISIONS OF THE MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS (MAG STANDARDS), UNLESS SPECIFICALLY MODIFIED ON THE PLANS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF MAG AND CITY OF PRESCOTT STANDARDS AND SPECIFICATIONS AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS NECESSARY TO COMPLETELY AND ACCURATELY INTERPRET THESE PLANS.
- ALL PLANS SIGNED BY THE CITY ENGINEER ARE NULL AND VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED. RESUBMITTAL AND REVIEW SHALL BE REQUIRED, AFTER ONE YEAR.
- ALL QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE, ARE NOT VERIFIED BY THE PUBLIC WORKS DIRECTOR, AND ARE FURNISHED SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT SHALL BE BASED ON BID SCHEDULE ITEMS FOR ACTUAL QUANTITIES PROVIDED AND INSTALLED. THE CONTRACTOR SHALL NOT BE RELIEVED OF HIS RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING WORK QUANTITIES PRIOR TO BIDDING.
- CITY OF PRESCOTT PUBLIC WORKS DEPARTMENT PERMITS(S) WILL BE REQUIRED FOR ALL OFF-SITE CONSTRUCTION AND CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AT HIS OWN EXPENSE, SUCH PERMITS AS ARE REQUIRED FROM THE APPROPRIATE AGENCIES.
- THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE PUBLIC RIGHT OF WAY.
- ANY WORK PERFORMED WITHOUT THE KNOWLEDGE AND APPROVAL OF THE PUBLIC WORKS DIRECTOR AND/OR ALL WORK MATERIALS NOT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- A THOROUGH ATTEMPT HAS BEEN MADE TO SHOW THE LOCATION OF ALL UNDERGROUND OBSTRUCTIONS AND UTILITY LINES IN THE WORK AREA. THE ENGINEER AND THE CITY OF PRESCOTT WILL NOT GUARANTEE ANY LOCATIONS OR ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES. THE CONTRACTOR SHALL NOT BE RELIEVED OF HIS RESPONSIBILITY FOR MAKING A COMPLETE AND ACCURATE ON-SITE DETERMINATION OF THE LOCATIONS, MATERIALS, AND SIZE OF ALL UTILITIES. STRUCTURES, AND FIELD CONDITIONS WHICH MAY AFFECT THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO STRUCTURES AND UTILITIES ENCOUNTERED DURING CONSTRUCTION AND SHALL FIELD EXPOSE EXISTING UNDERGROUND UTILITIES PRIOR TO TRENCHING IN THE VICINITY.
- THE CONTRACTOR IS REQUIRED TO CONTACT BLUE STAKE (1-800-STAKEIT) A MINIMUM OF TWO WORKING DAYS (48 HOURS) PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR SUPPORT OF ALL UTILITIES, POWER POLES, ETC., THAT MAY BE NECESSARY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE PUBLIC WORKS DEPARTMENT APPROVAL, TRAFFIC CONTROL PLANS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL DETERMINE AND SUBMIT FOR APPROVAL THE EXACT SIGNING/TRAFFIC CONTROL DEVICES NECESSARY AND ALL TRAFFIC CONTROL WORK SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS THEREOF. NO STREET IS TO BE CLOSED, RESTRICTED, OR CONSTRUCTED UPON UNTIL A TRAFFIC CONTROL PLAN IS PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE PUBLIC WORKS DIRECTOR ONE WEEK IN ADVANCE FOR REVIEW AND APPROVAL.
- APPROPRIATE EMERGENCY AGENCIES SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO ANY CLOSING OF STREETS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SURVEYING AND LAYOUT WITH CONTROL PROVIDED BY THE DESIGN ENGINEER OR HIS DESIGNEE.
- THE CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL MEASURES SUFFICIENT TO PRODUCE MATERIALS AND WORKMANSHIP OF ACCEPTABLE QUALITY. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT A QUALITY CONTROL PLAN. THE CONTRACTOR AT HIS OWN EXPENSE SHALL PROVIDE AN INDEPENDENT GEOTECHNICAL FIRM TO PERFORM QUALITY CONTROL TESTING SUCH AS SOILS AND CONCRETE TESTING, AND FULL TIME ASPHALTIC CONCRETE LAYDOWN COMPACTION TESTING AND ADEQUATE PLANT CONTROL FOR EACH PAVING DAY. THE CITY, BY SEPARATE CONTRACT, WILL BE RESPONSIBLE FOR QUALITY ASSURANCE TESTING AS IT MAY DEEM NECESSARY.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS OF TESTING AND INSPECTION, INCLUDING THE PRESENCE OF CITY INSPECTORS, REQUIRED AT NIGHT OR ON WEEKENDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RE-WORK AND/OR REMOVAL AND REPLACEMENT OF ALL MATERIALS REPRESENTED BY FAILING TESTS OR SUBSTANDARD WORKMANSHIP.
- THE CONTRACTOR SHALL IMPLEMENT BEST-HOUSE-KEEPING MEASURES, AND EROSION AND SEDIMENT CONTROL MEASURES, TO PREVENT THE TRANSPORT OF CONSTRUCTION MATERIALS INTO DRAINAGE INLETS, STORM DRAIN MANHOLES, UTILITY STRUCTURES, OR ONTO ADJACENT STREETS AND PROPERTIES.
- APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL THE WRITTEN FINAL ACCEPTANCE OF A COMPLETE AND WORKABLE UNIT.
- THE CITY OF PRESCOTT MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN ITS JUDGEMENT, PROGRESS IS UNSATISFACTORY, WORK BEING DONE IS UNAUTHORIZED OR DEFECTIVE, WEATHER CONDITIONS ARE UNSTABLE, OR THERE IS A DANGER TO THE PUBLIC HEALTH AND SAFETY.
- ALL OBSTRUCTIONS IN THE RIGHT OF WAY SHALL BE REMOVED BEFORE ANY CONSTRUCTION IS PERMITTED.
- REMOVAL OF STRUCTURES AND OBSTRUCTIONS AS NECESSARY TO COMPLETE THE WORK, OTHER THAN SPECIFICALLY SCHEDULED IN THE BID, IS INCIDENTAL TO THE CONTRACT. NO SEPARATE MEASUREMENT OF OR PAYMENT FOR UNSCHEDULED REMOVAL ITEMS WILL BE MADE.
- CLEARING AND GRUBBING IS CONSIDERED INCIDENTAL TO THE WORK UNLESS SPECIFICALLY IDENTIFIED IN THE BID SCHEDULE. NO SEPARATE MEASUREMENT OF OR PAYMENT FOR CLEARING AND GRUBBING, AND TREE REMOVAL, WILL BE MADE. THE SITE OF ALL EXCAVATION, EMBANKMENTS, AND FILLS SHALL FIRST BE CLEARED OF STUMPS, TRASH, WEEDS, RUBBISH, TOPSOIL, AND LOOSE Boulders WHICH SHALL BE REMOVED AND DISPOSED OF PRIOR TO BIDDING. THE CONTRACTOR MUST SATISFY HIMSELF REGARDING THE CHARACTER OF THE SUBSOILS TO INCLUDE THE AMOUNT OF SAND, CLAY, SILT, QUICKSAND, HARDPAN, GRAVEL, ROCK, WATER, AND ALL OTHER MATERIAL TO BE ENCOUNTERED AND WORK TO BE PERFORMED.
- THE CONTRACTOR SHALL GUARD AGAINST DAMAGE DURING CONSTRUCTION TO EXISTING PROPERTIES AND IMPROVEMENTS. ANY ITEMS DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND OR BETTER AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL KEEP SUITABLE EQUIPMENT ON HAND AT THE JOBSITE FOR MAINTENANCE DUST CONTROL, AND SHALL CONTROL DUST AS DIRECTED BY THE APPROPRIATE AGENCY AT ALL TIMES. STREET AND TRAFFIC SIGNS SHALL BE RELOCATED BY THE CONTRACTOR IF NECESSARY, AT THE DIRECTION OF THE PUBLIC WORKS DIRECTOR.
- BACKFILL COMPACTION SHALL BE PER MAG, SECTION 601) UNLESS OTHERWISE NOTED.
- AGGREGATE BASE COURSE SHALL NOT BE PLACED ON SUBGRADE UNTIL SUBGRADE REQUIREMENTS HAVE BEEN ACHIEVED.
- NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE

- ROADWAY PRISM ARE VERIFIED FOR DETAIL CONFORMANCE, COMPLETED AND TESTED (TO INCLUDE BUT NOT LIMITED TO) SEWER TESTING, LOW AIR TESTING OF MAIN LINE AND SERVICES, TRACE WIRE TESTING, DEFLECTION TESTING AND VERIFICATION OF MANHOLES CONFORMING TO COP DETAIL 420P. WATER TESTING, CHLORINATION/DISINECTING OF MAIN LINE AND SERVICES, PRESSURE TESTING, TRACE WIRE TESTING AND VERIFICATION OF VALVE BOXES CONFORMING TO COP DETAIL 391P.
- ALL ASPHALT CONCRETE PAVING SHALL BE PER APPLICABLE MAG SPECIFICATIONS AS AMENDED BY THE CITY OF PRESCOTT. ASPHALT MIX DESIGN SHALL BE SUBMITTED TO THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
- CONCRETE SURFACES SHALL BE FINISHED TO THE SPECIFIED FINISH GRADE. FINISH GRADE SHALL BE ADJUSTED TO FINISH ASPHALT GRADE AFTER PLACEMENT OF SURFACE COURSE BY THE CONTRACTOR PER COP STANDARD DETAILS.
- ACCEPTANCE OF THE COMPLETED PAVING STRUCTURES WILL NOT BE GIVEN UNTIL REPRODUCIBLE "AS-BUILT" PLANS HAVE BEEN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE CITY.
- ALL CONCRETE TO BE AT LEAST 3000 PSI CLASS "A" PORTLAND CEMENT CONCRETE, UNLESS OTHERWISE SPECIFIED ON THE PLANS, SPECIFICATIONS, OR IN STANDARD DETAILS.
- EDGES OF CONCRETE STRUCTURES TO HAVE A 3/4" CHAMFER, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- CONCRETE SURFACES TO HAVE A BROOM FINISH UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL EXPANSION JOINTS TO BE SEALED WITH 1/2" EXPANSION JOINT, PRE-FORMED JOINT FILLER AND SEALER IN ACCORDANCE WITH MAG SECTION 729.
- DRIVEWAY ENTRANCES WILL BE LOCATED AS SPECIFIED ON THE PLANS UNLESS MODIFIED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAY ENTRANCES SHALL BE COMPACTED OVER 6" THICK AGGREGATE BASE COURSE PER MAG SPECIFICATION 702 AND CONFINED TO 95% OF STANDARD PROCTOR DENSITY, UNLESS OTHERWISE NOTED.
- ALL DISTURBED FENCES SHALL BE REPLACED IN KIND. CONTRACTOR SHALL EXTEND FENCE TO THE CLOSEST UPRIGHT SUPPORT NECESSARY FOR STABILITY.
- MAILBOXES SHALL BE REMOVED AND REINSTALLED AS DIRECTED BY THE U.S. POSTAL SERVICE AND THE CITY OF PRESCOTT TEMPORARY LOCATIONS SHALL BE PER U.S.P.S.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEEPED CLEAN OF ALL DIRT AND DEBRIS.
- THE CONTRACTOR SHALL WARRANT ALL WORK FOR A MINIMUM TWO YEAR PERIOD AFTER FORMAL ACCEPTANCE OF THE WORK BY THE CITY.

**EROSION CONTROL PLAN GENERAL NOTES**

- A COPY OF THE APPROVED GRADING AND DRAINAGE PLAN FOR THIS PROJECT AND EROSION CONTROL PLAN (ECP) SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW.
- THE CONTRACTOR SHALL PERFORM, AT A MINIMUM, A VISUAL INSPECTION OF THE CONSTRUCTION SITE ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF RAINFALL GREATER THAN OR EQUAL TO A HALF AN INCH (1/2-INCH). THE OPERATOR SHALL PREPARE A REPORT DOCUMENTING HIS/HER FINDINGS ON THE CONDITIONS OF THE ECP CONTROLS AND NOTE ANY EROSION PROBLEM AREAS. THE OPERATOR'S REPORT IS TO BE MAINTAINED ON SITE BY THE OPERATOR. FACILITIES SHALL BE MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CONSTRUCTION IS COMPLETED. PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL AND THE POTENTIAL FOR EROSION HAS PASSED AS DETERMINED BY THE CITY ENGINEER OR HIS/HER DESIGNEE.
- THE IMPLEMENTATION OF THESE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. ADDITIONALLY, THEY MUST BE INSTALLED AND IN OPERATION PRIOR TO ANY GRADING OR LAND CLEARING. WHEREVER POSSIBLE, NATURAL VEGETATION SHOULD BE RETAINED AND MAINTAINED FOR SILT AND EROSION CONTROL.
- CONSTRUCTION SITES ARE DYNAMIC IN NATURE. AS SUCH, THIS PLAN MUST BE UPDATED TO ACCURATELY REFLECT SITE FEATURES AND OPERATIONS WHICH MAY BECOME EVIDENT DURING CONSTRUCTION, AND/OR DURING OR AFTER RAINFALL EVENTS. THE PLAN MUST ALSO BE AMENDED AS DETERMINED BY THE DESIGN ENGINEER, OR THE CITY ENGINEER AS NOT EFFECTIVE AT MINIMIZING POLLUTANT DISCHARGES FROM THE SITE.
- THE SCHEMATIC EROSION CONTROL MEASURES SHOWN ARE A MINIMUM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEANS TO PROTECT EXISTING FACILITIES AND ADJACENT PROPERTIES FROM NOISE, DUST, AND STORM WATER RUNOFF THROUGHOUT CONSTRUCTION OF THE PROJECT AND BUILDINGS ON LOTS, AND SHALL CONDUCT HIS OPERATIONS IN A MANNER THAT STORM WATER WILL BE CONTAINED ON SITE OR CHANNELLED INTO A STORM DRAIN SYSTEM, PROVIDED THAT IT IS FREE FROM POLLUTANTS AND DEBRIS.
- THE CONTRACTOR SHALL HYDRO-SEED ALL EXPOSED SLOPES EMPLOYING BEST PRACTICES AND/OR RECOMMENDED SOIL PREPARATION TO PROMOTE AND SUSTAIN GROWTH. ALL EROSION CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL EXPOSED SLOPES HAVE BEEN PERMANENTLY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND MAINTAINING HYDRO-SEED UNTIL STABILIZED. ANY DEVIATION SHALL BE APPROVED BY THE ENGINEER.
- ALL SITE REVEGETATION SHALL BE COMPLETED WITHIN 90 DAYS OF COMPLETION OF GRADING WORK, OR PRIOR TO RELEASE OF SUBDIVISION GUARANTEE OR ISSUANCE OF CERTIFICATE OF OCCUPANCY, WHICH EVER OCCURS FIRST. PERMANENT BANK/SLOPE STABILIZATION SHALL BE CERTIFIED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT DOCUMENTING THE BANK/SLOPE STABILIZATION WAS COMPLETED ACCORDING TO PLAN PRIOR TO FINAL SUBDIVISION RELEASE OR CERTIFICATE OF OCCUPANCY.
- THE CONTRACTOR SHALL PROTECT ALL PERMANENT AND EXISTING STORM WATER FACILITIES FROM SEDIMENT/SILT DURING CONSTRUCTION.
- SILT FENCING AND/OR OTHER SEDIMENT CONTROL (I.E. STRAW BARRIERS, HAY BALES, ETC.) SHALL BE USED AT THE TOE OF ANY ERODIBLE SLOPE, FOLLOWING CONTOURS OF SLOPE (DO NOT INSTALL SILT FENCE ACROSS ANY DRAINAGE COURSE).
- ONCE THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS MET THE FINAL STABILIZATION REQUIREMENTS OF THE PERMIT, THE AUTHORIZED SITE REPRESENTATIVE MAY FILE A NOTICE OF TERMINATION (NOT) WITH ADEQ, WITH A COPY SUBMITTED TO THE CITY OF PRESCOTT ENGINEERING DIVISION TO TERMINATE COVERAGE UNDER THE PERMIT.

**EXISTING LEGEND**

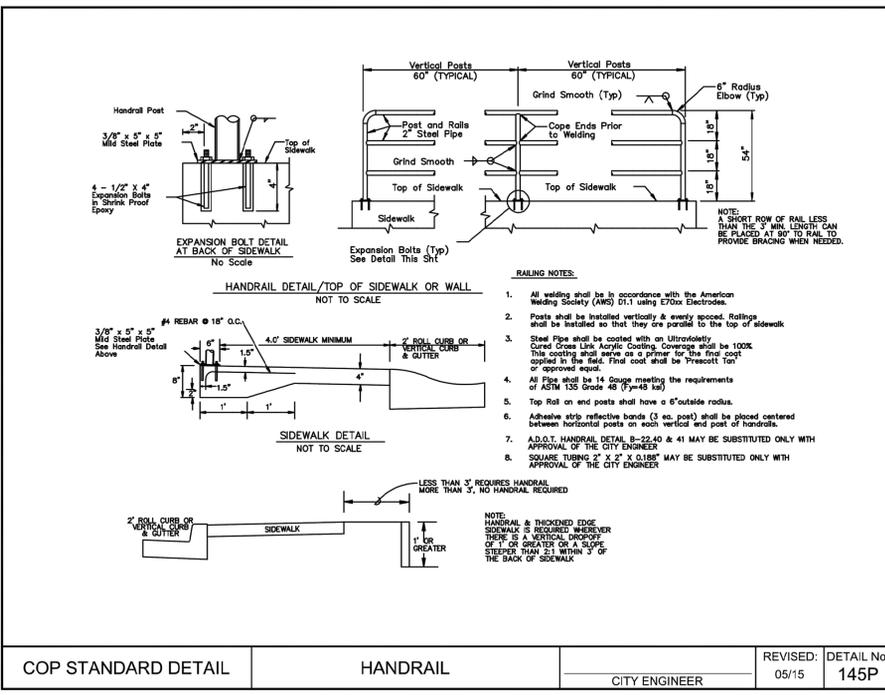
	SUBJECT PROPERTY BOUNDARY		EXISTING FIRE HYDRANT
	EXISTING EDGE OF PAVEMENT		EXISTING WATER VALVE
	EXISTING RAIL FENCING		EXISTING WATER METER
	EXISTING ELEVATION CONTOUR (1' C.I.)		EXISTING REDUCED PRESSURE ASSEMBLY
	EXISTING WATERLINE (BLUESTAKE)		EXISTING SEWER CLEAN-OUT
	EXISTING 6" WATERLINE (GIS BASED)		EXISTING SEWER MANHOLE
	EXISTING SEWERLINE		EXISTING ELECTRIC METER
	EXISTING 8" SEWERLINE (GIS BASED)		EXISTING AREA LIGHT
	EXISTING UNDERGROUND ELECTRIC		EXISTING UTILITY POLE
	EXISTING OVERHEAD ELECTRIC		EXISTING SIGN
	EXISTING FLOWLINE		EXISTING DRAINAGE INLET
	EXISTING DRAINAGE PIPE		EXISTING TREE

**PROPOSED LEGEND**

	SUBJECT PROPERTY BOUNDARY		PROPOSED STORM DRAIN PIPE
	PROPOSED ELEVATION CONTOUR (1' C.I.)		PROPOSED 6" RIPRAP
	PROPOSED FLOWLINE		PROPOSED GROUTED 6" RIPRAP
	PROPOSED LIMITS OF WORK		PROPOSED TREE REMOVAL
	PROPOSED SAFETY RAILING		
	PROPOSED FINISHED GRADE SPOT ELEVATION		

**PROJECT QUANTITIES**

GENERAL ITEMS		
1	MOBILIZATION	1 LS
2	WATER & DUST CONTROL	1 LS
3	CLEARING & GRUBBING	0.25 ACRE
4	RAW EARTHWORK (CUT)	300 CY
5	RAW EARTHWORK (FILL)	20 CY
6	SWPPP IMPLEMENTATION	1 LS
CONSTRUCTION ITEMS		
7	REMOVE EXISTING TREES	11 EA
8	RELOCATE PARKING SIGNS	3 EA
9	SITE WALL (CMU) PER PLAN, PROFILE & DETAILS ON SHEET 3	500 SF
10	HEADWALL (RC) PER PLAN & DETAILS ON SHEET 3	345 SF
11	HANDRAIL PER COP SD 145P	97 LF
12	RIPRAP D50-6" PLACED 12" THICK OVER FILTER FABRIC	150 CY
13	GROUTED RIPRAP D50-6" PLACED 12" THICK OVER FILTER FABRIC	4 CY
14	REMOVE & REPLACE SECTION OF EXISTING STORM DRAIN	1 EA
PAVING ITEMS (BID ALTERNATE)		
15	SLURRY SEAL AREA 1 PER MAG SPEC 332	3,580 SF
16	SLURRY SEAL AREA 2 PER MAG SPEC 332	4,000 SF
17	SLURRY SEAL AREA 3 PER MAG SPEC 332	570 SF
18	SLURRY SEAL AREA 4 PER MAG SPEC 332	2,520 SF
19	SLURRY SEAL AREA 5 PER MAG SPEC 332	3,470 SF



CALIFORNIA PROFESSIONAL ENGINEERS  
1-800-STAKE-IT  
1-800-782-5348  
(OUTSIDE MARICOPA COUNTY)

REVISIONS	DESCRIPTION	DATE	BY	REVISIONS PER COP COMMENTS DATED 4/29/16
		4/29/16	TD	

NUM.	DESCRIPTION	FOR REVIEW ONLY	FOR BID ONLY	FOR APPROVAL ONLY	FOR RECORDING ONLY	FOR CONSTRUCTION ONLY	FOR AS-BUILT ONLY
		<input type="checkbox"/>					

**GRANITE BASIN ENGINEERING, INC.**  
1981 Commerce Center Drive, Suite B  
Prescott, AZ 86301  
928.717.0171

WEST YAVAPAI GUIDANCE CLINIC 3343 NORTH WINDSORG DRIVE, PRESCOTT VALLEY, ARIZONA 86314	WEST YAVAPAI GUIDANCE CLINIC DRAINAGE IMPROVEMENT PLANS STANDARD NOTES, DETAILS, LEGEND & QUANTITIES
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JOB: 15128	DATE: 4/29/2016	SCALE: AS SHOWN	DRAWN: TD	DESIGNED: TD	CHECKED: DB
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SHEET 2 OF 6

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**STRUCTURAL NOTES**

**GENERAL REQUIREMENTS:**

THESE DRAWINGS, AND THEIR ASSOCIATED STRUCTURAL CALCULATIONS, HAVE BEEN PERFORMED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK INDICATED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND BY WORKERS WHO HAVE A WORKING KNOWLEDGE OF THE INTERNATIONAL BUILDING CODE (IBC), AMERICAN CONCRETE INSTITUTE (ACI), CONVENTIONAL FRAMING REQUIREMENTS, AND OF INDUSTRY-ACCEPTED STANDARD GOOD PRACTICE.

AS NOT EVERY CONDITION OR FRAMING ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY-ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

ALL DETAILS SHOWN APPLY WHETHER SPECIFICALLY REFERENCED OR NOT.

OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.

DO NOT USE SCALED DIMENSIONS. USE WRITTEN DIMENSIONS OR, WHERE NO DIMENSION IS PROVIDED, CONSULT THE ENGINEER BEFORE PROCEEDING WITH THE WORK. TYPICAL DETAILS ARE NOT CUT ON DRAWINGS, BUT APPLY UNLESS NOTED OTHERWISE. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A STRUCTURAL ENGINEER REGISTERED IN ARIZONA.

THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PROTECT THE STRUCTURE DURING CONSTRUCTION.

**BASIS FOR DESIGN:**

BUILDING CODE: 2006 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) WITH CITY/COUNTY AMENDMENTS, ACI 318

**FOUNDATION AND EARTHWORK:**

THE SOIL DESIGN VALUES FOR THE FOUNDATION ARE:  
 ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF  
 ALLOWABLE LATERAL BACKFILL PRESSURE (ACTIVE) = 30 PSF/FT  
 ALLOWABLE LATERAL BACKFILL PRESSURE (PASSIVE) = 225 PSF/FT

ALL FOUNDATIONS SHALL BEAR ON COMPACTED GRANULAR SOIL. CONCRETE FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE OF LOOSE DEBRIS OR UNCOMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT.

BACKFILL AROUND EXTERIOR WALLS BELOW GRADE SHALL NOT BE PLACED UNTIL AFTER THE CONCRETE OR GROUT HAS REACHED FULL DESIGN STRENGTH.

ALL FOOTINGS SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND THE END OF NON-CONTINUOUS WALLS.

**CONCRETE:**

ALL CONCRETE SHALL BE READY MIXED CONFORMING WITH ASTM C 94, TYPE I OR TYPE II PORTLAND CEMENT SHALL BE USED FOR ALL CONCRETE UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150.

MINIMUM 28-DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS:

FOUNDATIONS = 3,500 PSI  
 STEMS = 3,500 PSI

THE LATEST EDITIONS OF THE FOLLOWING ACI STANDARDS OF RECOMMENDED PRACTICE SHALL APPLY TO ALL CONCRETE WORK:

- A) ACI 318 CODE REQUIREMENTS FOR REINFORCED CONCRETE
- B) ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS

ALL CONCRETE SHALL HAVE A MINIMUM CEMENTITIOUS MATERIAL CONTENT OF 5 SACKS PER CUBIC YARD. CONCRETE SLUMP SHALL NOT BE MORE THAN 4 INCHES. ANY DEVIATIONS FROM THESE REQUIREMENTS SHALL BE MADE ONLY WITH THE APPROVAL OF THE ENGINEER OF RECORD.

NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY THE TESTING AGENCY.

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE, 4 INCHES OR LESS IN THICKNESS, NEED BE VIBRATED ONLY AT AREAS OF REINFORCEMENT, THICKENED AREAS, AND ADJACENT TO PENETRATIONS.

CONCRETE SHALL NOT BE DROPPED MORE THAN 4 FEET VERTICALLY.

ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE THE CONCRETE IS PLACED.

NO CONSTRUCTION JOINTS (OTHER THAN THOSE SHOWN ON DRAWINGS) SHALL BE INSTALLED WITHOUT APPROVAL OF THE ENGINEER.

CONCRETE FOOTINGS AND PADS MAY BE POURED AGAINST NEAT EXCAVATIONS, PROVIDED PLAN DIMENSIONS ARE ADHERED TO.

PROVIDE 3/4 INCH CHAMFER ON ALL EXPOSED EDGES OF BEAMS, COLUMNS, WALLS, ETC., UNLESS NOTED OTHERWISE ON DRAWINGS.

PROVIDE 1/2 INCH PREFORMED JOINT FILLER WHERE EXTERIOR SLAB ABUTS VERTICAL SURFACES, TYPICAL UNLESS NOTED OTHERWISE.

DURING COLD/HOT WEATHER CONCRETE CONSTRUCTION, PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH, IN COMPLIANCE WITH ACI 305 AND ACI 306.

CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE ENGINEER.

ALL CONCRETE SHALL HAVE WATERPROOF COATING.

**MASONRY:**

CONCRETE MASONRY UNITS SHALL BE LOAD-BEARING CONFORMING TO ASTM C 90, TYPE 1.

GRADE N, WITH A MINIMUM 28-DAY NET COMPRESSIVE STRENGTH OF 2,500 PSI.

MASONRY MORTAR SHALL CONFORM TO ASTM C 270 FOR TYPE S MORTAR WITH A MINIMUM 28-DAY GROSS COMPRESSIVE STRENGTH OF 2,500 PSI.

MASONRY GROUT SHALL CONFORM TO ASTM C 476 COARSE GROUT, WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI. CELLS AND COURSES OF HOLLOW UNIT MASONRY WITH REINFORCING BARS SHALL BE FILLED SOLID WITH GROUT.

MAXIMUM GROUT LIFT SHALL BE 8'-0". IF GROUT LIFT EXCEEDS 4'-0", PROVIDE CLEAN CUTS IN BLOCK WALLS.

MINIMUM 28-DAY MASONRY STRENGTH SHALL BE 2,500 PSI.

PROVIDE A MINIMUM OF ONE BAR DIAMETER OF GROUT BETWEEN REINFORCING AND MASONRY UNITS.

ALL CELLS CONTAINING REINFORCEMENT SHALL BE GROUTED SOLID.

SOLID GROUT ALL MASONRY BELOW GRADE.

ALL GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION (STINGER) IMMEDIATELY AFTER PLACEMENT, AND THEN RECONSOLIDATED APPROXIMATELY 3 TO 5 MINUTES LATER.

ALL MASONRY UNITS SHALL HAVE WATERPROOF COATING.

**VERTICAL REINFORCING:**

#5 AT 32 INCHES ON CENTER IN CONCRETE MASONRY UNIT STEM PORTION FULL HEIGHT OF WALL, CENTERED IN GROUTED CELL AND AT ALL WALL INTERSECTIONS, CORNERS, WALL ENDS, JAMBS, OVER LINTELS, AND EACH SIDE OF CONTROL JOINTS (MINIMUM UNLESS NOTED OTHERWISE ON PLANS/DETAILS). #5 AT 16 INCHES ON CENTER IN CONCRETE STEM PORTION DOWEL ALL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH AND LAP VERTICAL WALL OR COLUMN REINFORCING. SEE FOUNDATION PLANS FOR SPECIFIED REINFORCEMENT.

CONTROL JOINTS: UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUN OF WALL EXCEEDS 24'. CONTROL JOINTS SHALL NOT OCCUR AT WALL CORNERS, INTERSECTIONS, ENDS, WITHIN 24' OF CONCENTRATED POINTS OF BEARING OR JAMBS, OR OVER OPENINGS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.

**HORIZONTAL REINFORCING:**

(MINIMUM UNLESS NOTED OTHERWISE ON PLANS/DETAILS) FOR 8-INCH THICK CONCRETE MASONRY UNITS, ONE #4 BAR IN CENTER OF 8-INCH DEEP CONTINUOUS GROUTED BOND BEAM AT INTERVALS NOT TO EXCEED 32 INCHES ON CENTER AND AT TOP OF PARAPET OR FREE-STANDING WALLS.

(MINIMUM UNLESS NOTED OTHERWISE ON PLANS/DETAILS) FOR CONCRETE STEM AND FOOTING, ONE #4 BAR AT INTERVALS NOT TO EXCEED 12 INCHES ON CENTER.

PLACE HORIZONTAL BARS CONTINUOUS THROUGH CONTROL JOINTS. TO MAINTAIN HORIZONTAL BOND BEAM CONTINUITY, PROVIDE BENT BARS AT CORNERS AND WALL INTERSECTIONS TO MATCH THE HORIZONTAL BOND BEAM REINFORCEMENT.

PROVIDE 48 BAR DIAMETER LAP SPLICES FOR TYPICAL REINFORCEMENT. PROVIDE 63 BAR DIAMETER LAP SPLICES IF ADJACENT BARS ARE SEPARATED BY 3 INCHES OR LESS (THIS INCLUDES SPLICES FOR 2 BARS PER CELL IN 8-INCH MASONRY).

**REINFORCING STEEL:**

REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A615, GRADE 60 FOR #4 REBAR AND SMALLER AND GRADE 60 FOR #5 REBAR AND LARGER, UNLESS NOTED OTHERWISE.

ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS 'CLEAR' OR 'CLR' ARE TO CENTER OF STEEL UNLESS NOTED OTHERWISE ON THE DRAWINGS. MINIMUM CLEAR COVER FOR NON-PRESTRESSED CONCRETE REINFORCING SHALL BE AS FOLLOWS:

TOLERANCE LOCATION	MINIMUM COVER	+ / -
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	3/8"
EXPOSED TO EARTH OR WEATHER:		
#5 AND SMALLER BARS:	2"	
#6 AND LARGER BARS:	2"	3/8"
SLABS ON GRADE:	2"	1/4"

UNLESS NOTED OTHERWISE, TENSION LAP SPLICES OF REINFORCING STEEL IN CONCRETE BEAMS, SLABS AND FOOTINGS SHALL BE CLASS 'B' TENSION LAP SPICE ACCORDING TO THE LATEST EDITION OF ACI 318. STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH IF SPLICING OF THE BARS IS REQUIRED, NO MORE THAN 50 PERCENT OF THE BARS SHALL BE SPLICED AT ONE LOCATION. ALL BAR SPICE LOCATIONS AND DETAILS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.

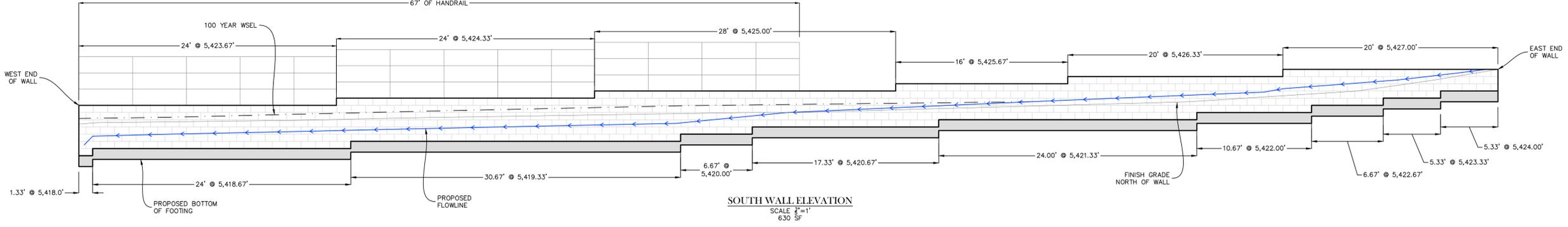
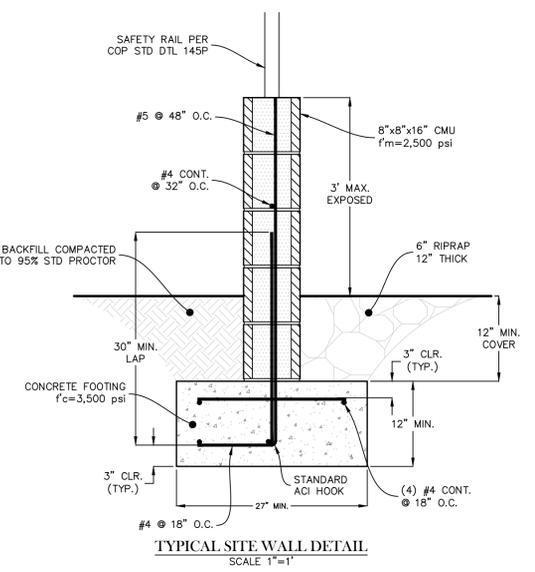
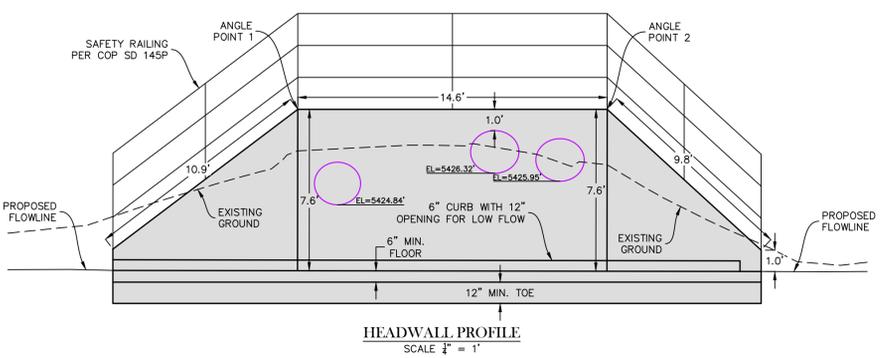
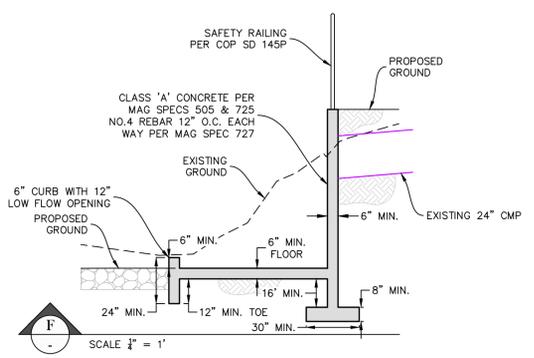
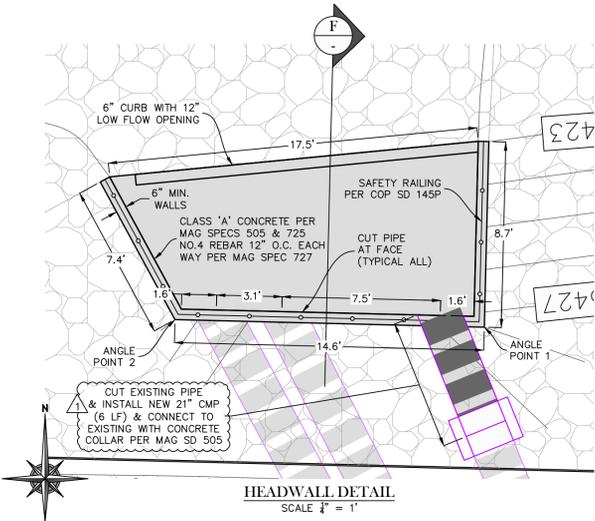
PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS, STEM WALLS AND BEAMS.

WELDING OF REINFORCING BARS SHALL CONFORM TO ASTM SPECIFICATION A-706 USING ONLY GRADE 60 BARS AND E90 SERIES ELECTRODES. WELDING OF REINFORCING BARS SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS. NO TACK WELDING OF REINFORCING BARS SHALL BE DONE WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE ENGINEER.

REINFORCING BAR SPACINGS GIVEN ARE MAXIMUM ON-CENTER SPACINGS. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION.

ALL REINFORCING STEEL SHALL BE ACCURATELY PLACED, ANCHORED, AND SUPPORTED BY CHAIRS, SPACERS OR HANGERS.

PROVIDE 48 BAR DIAMETER LAP SPLICES FOR TYPICAL REINFORCEMENT IN MASONRY. PROVIDE 63 BAR DIAMETER LAP SPLICES IF ADJACENT BARS ARE SEPARATED BY 3 INCHES OR LESS (THIS INCLUDES SPLICES FOR 2 BARS PER CELL IN 8-INCH MASONRY).



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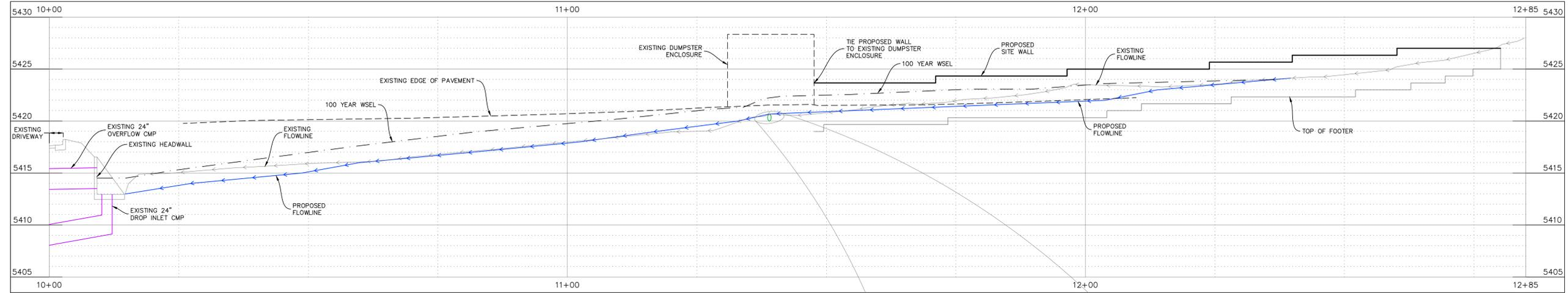
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 PRESCOTT VALLEY, ARIZONA 86314

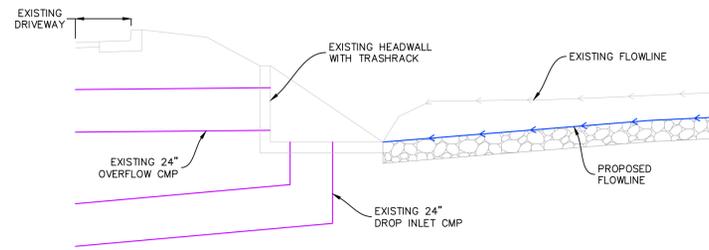
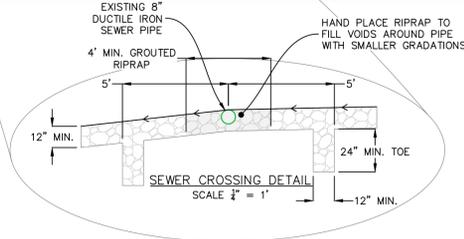
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 STRUCTURAL DETAILS & NOTES

15128  
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 SCALE: AS SHOWN  
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 CHECKED: DB

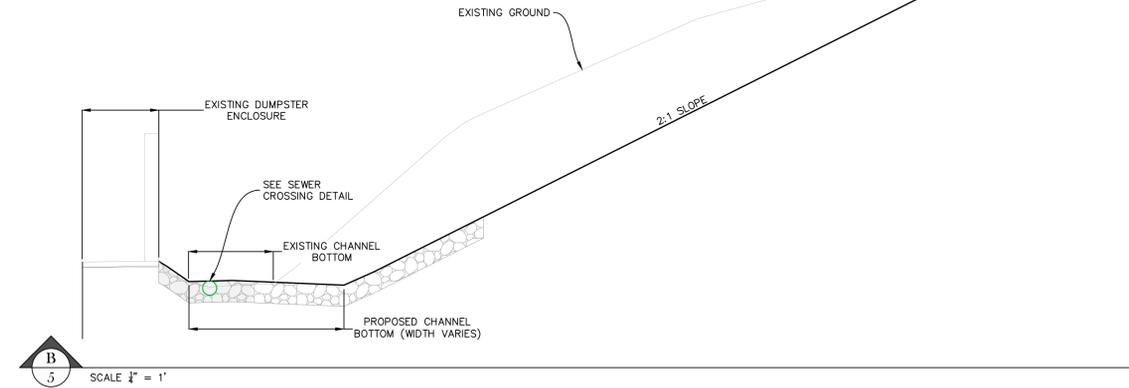
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 SHEET 3 OF 6



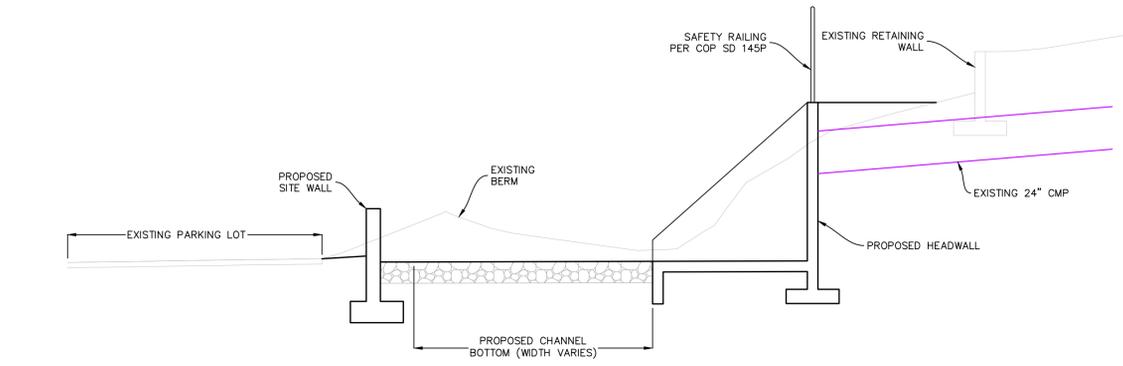
**CHANNEL FLOWLINE PROFILE**  
HORIZONTAL 1"=10'  
VERTICAL 1"=5'



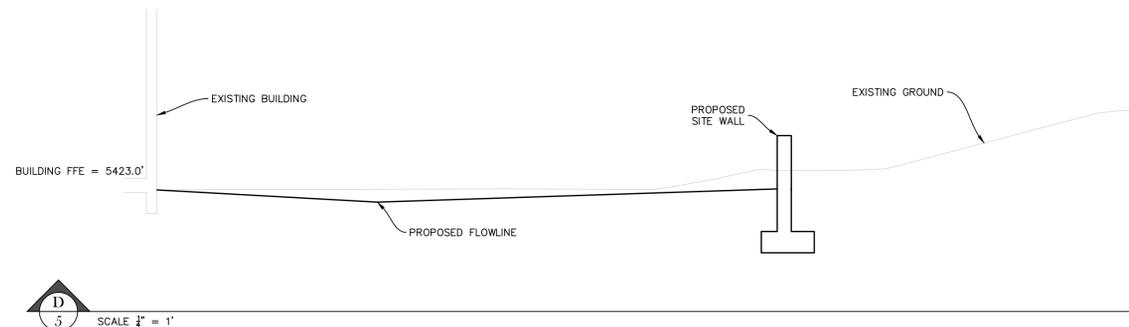
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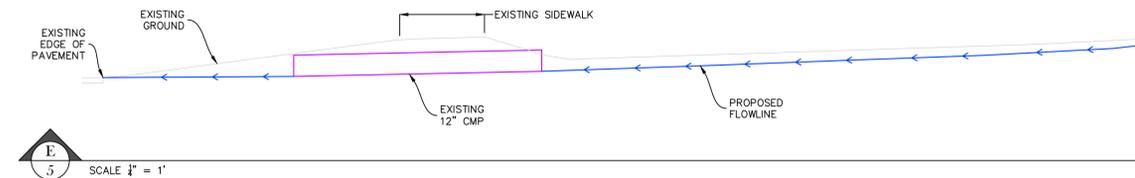
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**C**  
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**D**  
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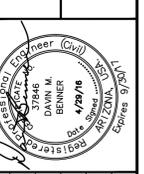
CALL FOR QUOTES  
BEFORE WORK STARTS  
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1-800-782-5348  
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REVISIONS	DATE	BY	TD
1	4/29/16		

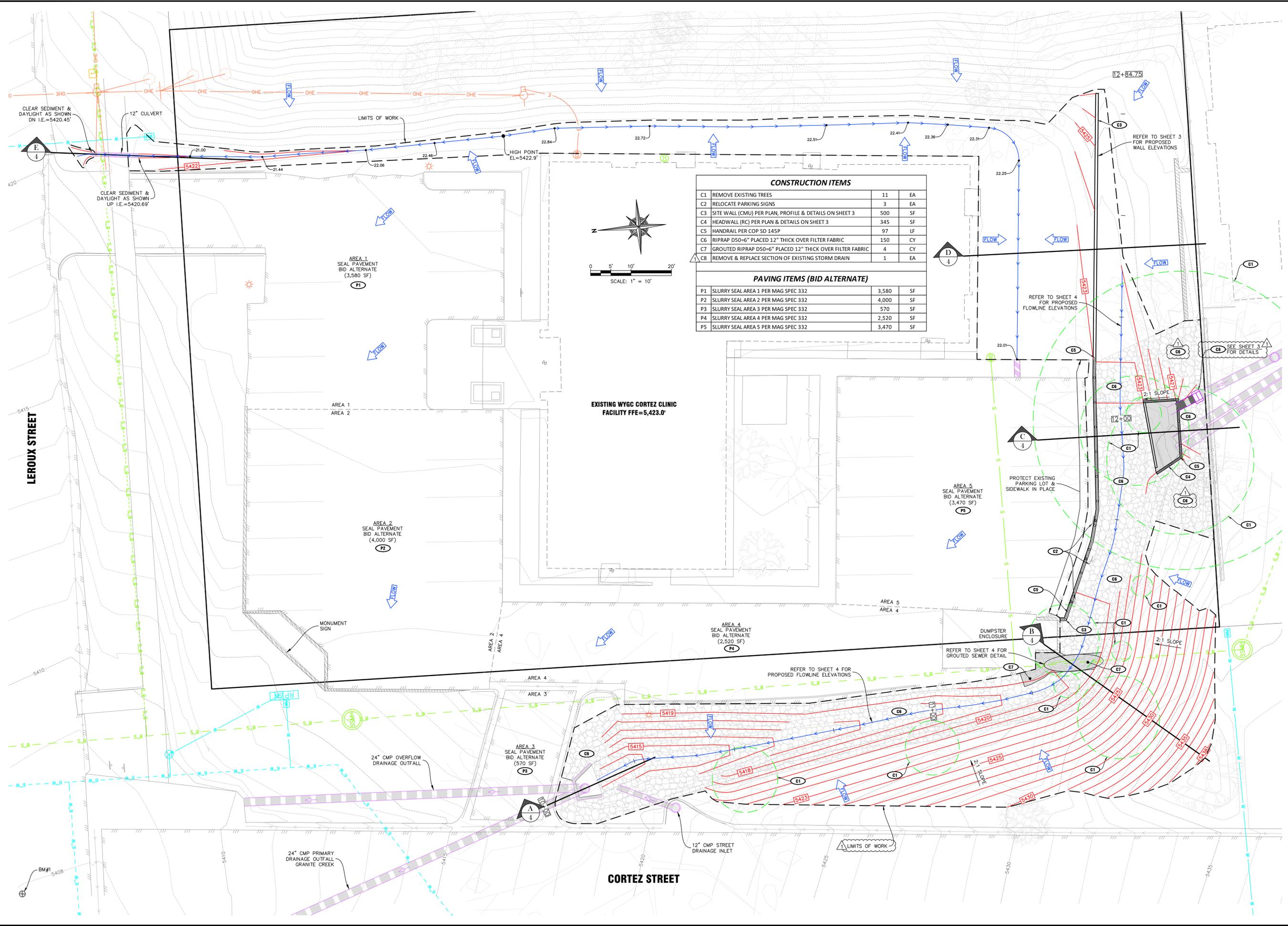
**GRANITE BASIN**  
ENGINEERING, INC.  
1981 Commerce  
Centre Drive, Suite B  
Phoenix, AZ 85001  
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WEST YAVAPAI GUIDANCE CLINIC  
3343 NORTH WINDSONG DRIVE,  
PRESCOTT VALLEY, ARIZONA 86314

WEST YAVAPAI GUIDANCE CLINIC  
DRAINAGE IMPROVEMENT PLANS  
SECTIONS, PROFILES & DETAILS



JOB:	15128
DATE:	4/29/2016
SCALE:	AS SHOWN
DRAWN:	TD
DESIGNED:	TD
CHECKED:	DB



**CONSTRUCTION ITEMS**

C1	REMOVE EXISTING TREES	11	EA
C2	RELOCATE PARKING SIGNS	3	EA
C3	SITE WALL (CMU) PER PLAN, PROFILE & DETAILS ON SHEET 3	500	SF
C4	HEADWALL (RC) PER PLAN & DETAILS ON SHEET 3	345	SF
C5	HANDRAIL PER COP SD 145P	97	LF
C6	RIPRAP D50-6" PLACED 12" THICK OVER FILTER FABRIC	150	CY
C7	GROUTED RIPRAP D50-6" PLACED 12" THICK OVER FILTER FABRIC	4	CY
C8	REMOVE & REPLACE SECTION OF EXISTING STORM DRAIN	1	EA

**PAVING ITEMS (BID ALTERNATE)**

P1	SLURRY SEAL AREA 1 PER MAG SPEC 332	3,580	SF
P2	SLURRY SEAL AREA 2 PER MAG SPEC 332	4,000	SF
P3	SLURRY SEAL AREA 3 PER MAG SPEC 332	570	SF
P4	SLURRY SEAL AREA 4 PER MAG SPEC 332	2,520	SF
P5	SLURRY SEAL AREA 5 PER MAG SPEC 332	3,470	SF

CALL GRANITE BASIN ENGINEERING, INC. BEFORE ANY WORK BEGINS  
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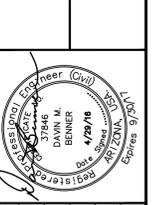
  

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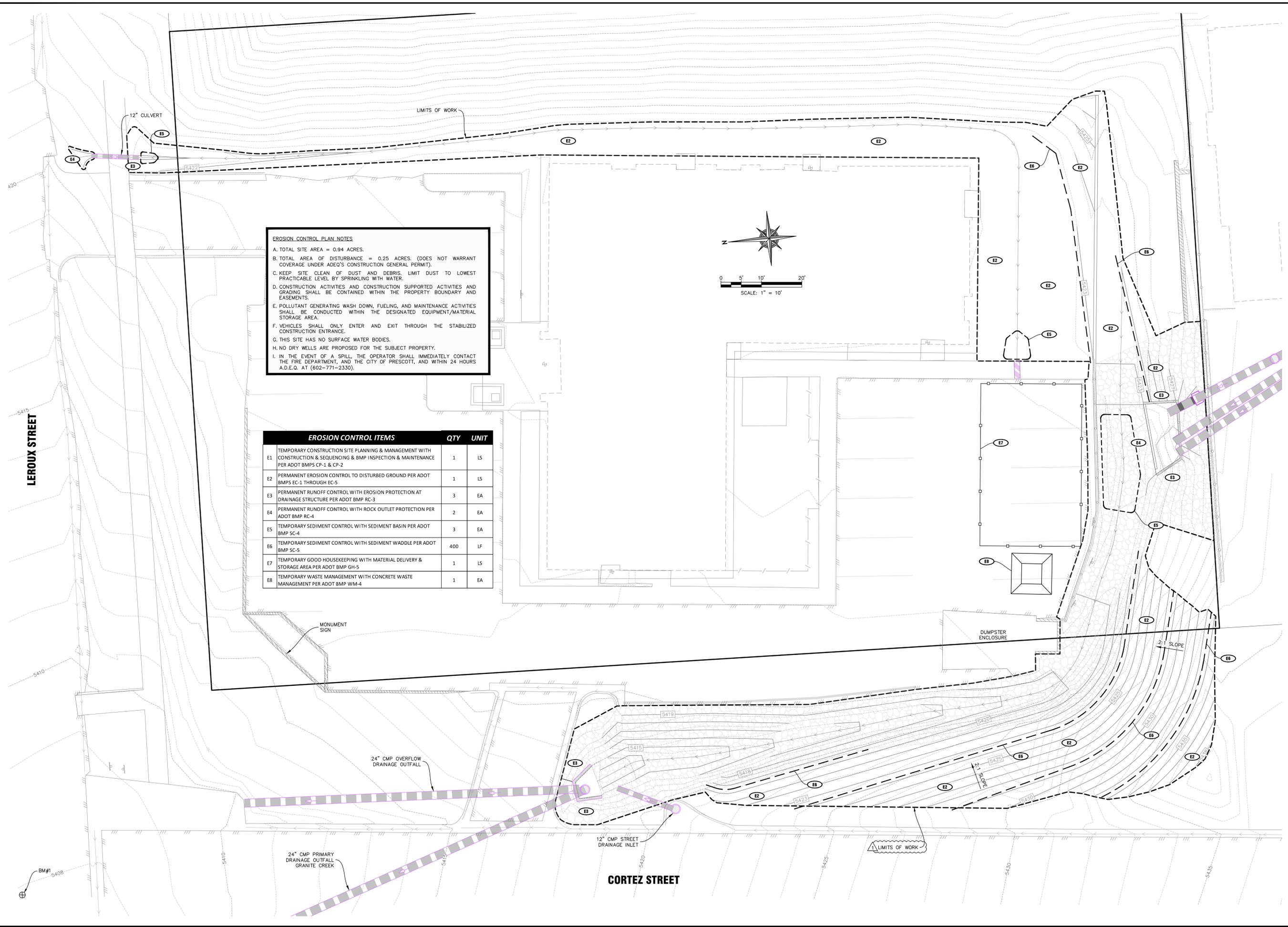


WEST YAVAPAI GUIDANCE CLINIC  
 3343 NORTH WINDSONG DRIVE,  
 PRESCOTT VALLEY, ARIZONA 86314

WEST YAVAPAI GUIDANCE CLINIC  
 DRAINAGE IMPROVEMENT PLANS  
 GRADING & DRAINAGE PLAN



JOB:	15128
DATE:	4/29/2016
SCALE:	AS SHOWN
DRAWN:	TD
DESIGNED:	TD
CHECKED:	DB



**EROSION CONTROL PLAN NOTES**

A. TOTAL SITE AREA = 0.94 ACRES.

B. TOTAL AREA OF DISTURBANCE = 0.25 ACRES. (DOES NOT WARRANT COVERAGE UNDER ADEQ'S CONSTRUCTION GENERAL PERMIT).

C. KEEP SITE CLEAN OF DUST AND DEBRIS. LIMIT DUST TO LOWEST PRACTICABLE LEVEL BY SPRINKLING WITH WATER.

D. CONSTRUCTION ACTIVITIES AND CONSTRUCTION SUPPORTED ACTIVITIES AND GRADING SHALL BE CONTAINED WITHIN THE PROPERTY BOUNDARY AND EASEMENTS.

E. POLLUTANT GENERATING WASH DOWN, FUELING, AND MAINTENANCE ACTIVITIES SHALL BE CONDUCTED WITHIN THE DESIGNATED EQUIPMENT/MATERIAL STORAGE AREA.

F. VEHICLES SHALL ONLY ENTER AND EXIT THROUGH THE STABILIZED CONSTRUCTION ENTRANCE.

G. THIS SITE HAS NO SURFACE WATER BODIES.

H. NO DRY WELLS ARE PROPOSED FOR THE SUBJECT PROPERTY.

I. IN THE EVENT OF A SPILL, THE OPERATOR SHALL IMMEDIATELY CONTACT THE FIRE DEPARTMENT, AND THE CITY OF PRESCOTT, AND WITHIN 24 HOURS A.D.E.Q. AT (602-771-2330).

ITEM	DESCRIPTION	QTY	UNIT
E1	TEMPORARY CONSTRUCTION SITE PLANNING & MANAGEMENT WITH CONSTRUCTION & SEQUENCING & BMP INSPECTION & MAINTENANCE PER ADOT BMPs CP-1 & CP-2	1	LS
E2	PERMANENT EROSION CONTROL TO DISTURBED GROUND PER ADOT BMPs EC-1 THROUGH EC-5	1	LS
E3	PERMANENT RUNOFF CONTROL WITH EROSION PROTECTION AT DRAINAGE STRUCTURE PER ADOT BMP RC-3	3	EA
E4	PERMANENT RUNOFF CONTROL WITH ROCK OUTLET PROTECTION PER ADOT BMP RC-4	2	EA
E5	TEMPORARY SEDIMENT CONTROL WITH SEDIMENT BASIN PER ADOT BMP SC-4	3	EA
E6	TEMPORARY SEDIMENT CONTROL WITH SEDIMENT WADDLE PER ADOT BMP SC-5	400	LF
E7	TEMPORARY GOOD HOUSEKEEPING WITH MATERIAL DELIVERY & STORAGE AREA PER ADOT BMP GH-5	1	LS
E8	TEMPORARY WASTE MANAGEMENT WITH CONCRETE WASTE MANAGEMENT PER ADOT BMP WM-4	1	EA

CALL FOR QUOTES BEFORE WORK BEGINS  
1-800-STAKE-IT  
1-800-782-5348  
(OUTSIDE MARICOPA COUNTY)

REVISIONS	DATE	BY	TD
REVISIONS PER COP COMMENTS DATED 4/28/16	4/29/16		

FOR REVIEW ONLY	FOR BID ONLY	FOR APPROVAL ONLY	FOR RECORDING ONLY	FOR CONSTRUCTION ONLY	FOR AS-BUILT ONLY
<input checked="" type="checkbox"/>	<input type="checkbox"/>				

**GRANITE BASIN ENGINEERING, INC.**  
1981 Commerce Center Drive, Suite B  
Prescott, AZ 86301  
928.717.0171

WEST YAVAPAI GUIDANCE CLINIC  
3343 NORTH WINDSONG DRIVE,  
PRESCOTT VALLEY, ARIZONA 86314

WEST YAVAPAI GUIDANCE CLINIC  
DRAINAGE IMPROVEMENT PLANS  
EROSION CONTROL PLAN

JOB: 15128  
DATE: 4/29/2016  
SCALE: AS SHOWN  
DRAWN: TD  
DESIGNED: TD  
CHECKED: DB

6

SHEET 6 OF 6

**APPENDIX C**

**REVISED BID FORM B – PRICE SHEET**

**BID FORM B – PRICE SHEET (RETURN WITH BID)**

<b>BASE BID</b>						
<b>ITEM</b>	<b>SPEC</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>COST</b>	<b>TOTAL</b>
1	105.8	CONSTRUCTION STAKING	1	LS		
2	107.15	EROSION CONTROL PLAN	1	LS		
3	109.1	MOBILIZATION	1	LS		
4	109.11	CONTRACT ALLOWANCE	1	LS	\$ 10,000	\$ 10,000
5	205	RAW EARTHWORK (CUT)	300	CY		
6	211	RAW EARTHWORK (FILL)	20	CY		
7	505	CONCRETE HEADWALL	345	SF		
8	510	SITE WALL (CMU)	500	SF		
9	520	HANDRAIL	97	LF		
10	220	RIPRAP (D50=6" PLACED 12" THICK)	150	CY		
11	220	GROUTED RIPRAP (D50=6" PLACED 12" THICK)	4	CY		
12	618	REPLACE STORM DRAIN	1	EA		

**TOTAL** \_\_\_\_\_

The undersigned hereby proposes and agrees to furnish any and all required labor, materials, transportation, and services for CDBG PY15-003 West Yavapai Guidance Clinic Drainage and Parking Lot Improvements project and hereby declares that he or she has visited the site and examined the contract documents relating to the work covered by the above bid. Bid is valid for 60 days after submission.

**Days Required for Completion Upon Execution of Contract:** \_\_\_\_\_ **days**

**Payment Terms:** \_\_\_\_\_ **Dated this** \_\_\_\_\_ **day of** \_\_\_\_\_ **2016**

Signature

Title