COUNTY OF EL PASO, TEXAS

FABENS DAM IMPROVEMENTS (TX 01958)



LOCATION MAP



_____ JUNE 2022

EL PASO COMMISSIONER'S COURT

RICARDO A. SAMANIEGO

CARLOS LEON

DAVID STOUT

ILIANA HOLGUIN

CARL L. ROBINSON

COUNTY JUDGE

COMMISSIONER PRECINCT 1

COMMISSIONER PRECINCT 2

COMMISSIONER PRECINCT 3

COMMISSIONER PRECINCT 4





GENERAL NOTES

- 1. THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF/HERSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING BIDS.
- 2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AUTOMOBILE AND PEDESTRIAN ACCESS AT ALL TIMES, INCLUDING SATURDAY, SUNDAYS AND HOLIDAYS TO EL PASO COUNTY PERSONNEL. THIS INCLUDES, BUT IS NOT LIMITED TO DRIVEWAYS AND ACCESS ROADS. THIS REQUIREMENT IS SUBSIDIARY TO THE VARIOUS BID ITEMS. CONTRACTOR SHALL MAINTAIN DUST CONTROL PREVENTIVE MEASURES THROUGHOUT CONSTRUCTION.
- 3. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM HIS/HER WORK SO AS TO PROVIDE PROPER PASSAGE OF ANY STORM WATER DURING THE COURSE OF HIS/HER OPERATIONS. ALL LABOR, TOOLS, EQUIPMENT AND SUPERVISION REQUIRED TO ASSURE SUCH PROPER PASSAGE OF RUNOFF WATER AND ANY REMOVAL OR HANDLING OF WATER IN ORDER TO MAINTAIN DRY CONDITIONS SHALL BE CONSIDERED AS INCIDENTAL TO THE REMAINDER OF THE WORK AND SHALL BE AT THE EXPENSE OF THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR THE FULL PROJECT SITE ONCE THE NOTICE TO PROCEED IS ISSUED. CONTRACTOR IS RESPONSIBLE FOR THE PROPER PASSAGE RUNOFF FOR THE FULL PROJECT SITE.
- 4. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH ALL UTILITIES AND ALL OTHER AFFECTED AGENCIES.
- 5. THE CONTRACTOR SHALL COMPLY WITH ALL THE STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, PERTAINING TO THE LOCATION OF THESE UTILITY FACILITIES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES IN THE PLANNING AND CONDUCTING OF EXCAVATION. THE COUNTY OF EL PASO MAKES NO REPRESENTATION PERTAINING THERE TO AND ASSUMES NO RESPONSIBILITY OF LIABILITY. THEREFORE, IF THE UTILITY FACILITIES ARE DAMAGED DURING CONSTRUCTION ALL PAVEMENT, ADJACENT UTILITIES, STRUCTURES, ETC. DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY TO ORIGINAL OR BETTER CONDITION. UNDERGROUND/OVERHEAD UTILITY FACILITIES SHOWN ON THESE DRAWINGS ARE FOR PLANNING DESIGN PURPOSES ONLY. OTHER UTILITY FACILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE DRAWINGS. THE LOCATION, DEPTH, AND SIZE OF THESE UTILITY FACILITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY AND MUST BE VERIFIED BY THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE FACILITY'S EXACT DEPTH AND LOCATION BY SAFE AND ACCEPTABLE MEANS WITHIN THE MARKED FACILITY AREA.
- 6. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND GRADES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS.
- 7. VERTICAL CONTROL FOR THIS PROJECT IS BASED UPON NAVD 88 DATUM. TOPOGRAPHIC SURVEY WAS PERFORMED BY BARRAGAN AND ASSOCIATES INC.
- 8. ALL CONCRETE SHALL COMPLY WITH THE STRENGTH SPECIFIED UNDER THE TECHNICAL SPECIFICATIONS.
- 9. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO BE TO THE CENTER OF BARS UNLESS OTHERWISE SHOWN ON THE PLANS.
- 10. COST OF FIELD CUTTING AND BENDING OF REINFORCING STEEL SHALL BE INCIDENTAL TO CONSTRUCTION AND NO ADDITIONAL PAYMENT WILL BE CONSIDERED.
- 11. VIBRATORY ROLLERS WILL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT.
- 12. THE CONTRACTOR SHALL CONTACT A NOTIFICATION CENTER OR THE PROPER UTILITY COMPANY 48 HRS. PRIOR TO PERFORMING ANY EXCAVATION.
- 13. CONTRACTOR IS EXPECTED TO MAINTAIN A MINIMUM CLEARANCE OF TWO FEET PLUS THE WIDTH OF THE LINE BETWEEN MARKED AND UNEXPOSED FACILITIES AND THE CUTTING EDGE OR POINT OF ANY POWER-OPERATED EXCAVATING OR EARTH-MOVING EQUIPMENT. EXCAVATION SHOULD BE PERFORMED VERY CAREFULLY WITH HAND TOOLS AND WITHOUT DAMAGE AND SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.

- 14. THE CONTRACTOR/EXCAVATOR IS CAUTIONED THAT EQUIPMENT MAY DISTURB/DAMAGE FACILITIES BY ITS WEIGHT AND/OR OTHER CHARACTERISTICS.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING PERMITS FROM THE COUNTY OF EL PASO PRIOR TO DEMOLITION AND NEW CONSTRUCTION. THE COST OF THE PERMIT WILL BE AT THE CONTRACTOR'S EXPENSE.
- 16. ALL EXISTING ROADWAYS, SIDEWALKS, SIGNS, LANDSCAPING, DRAINAGE STRUCTURES AND DRIVEWAYS NOT TO BE DISTURBED AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 17. THE FOLLOWING LOCAL AGENCY PERSONNEL SHALL BE CONTACTED BY CONTRACTOR PRIOR TO COMMENCING

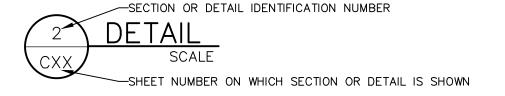
LIST OF UTILITIES AND AGENCIES					
COMPANY NAME	CONTACT PERSON	CONTACT INFORMATION			
EL PASO COUNTY	FERNANDO HERNANDEZ	(915) 546-2015			
EL PASO ELECTRIC COMPANY (DISTRIBUTION DEPT.)	MARGARET ONTIVEROS	(915) 543-2244			
EL PASO ELECTRIC COMPANY (TRANSMISSION DEPT.)	RICHARD CARRILLO	(915) 351-4224			
TEXAS GAS SERVICE	FRANCISCO CAMPA	(915) 680-7275			
AT&T	CALVIN PEWITT	(254) 715-7869			
SPECTRUM	NATE MONTGOMERY	(888) 519-9188			
EL PASO WATER	AL QUIJANO	(915) 594-5536			
EMERGENCIES AND HAZMAT	_	911			
DIG TESS	_	(800) 344-8377			
UTILITY LINE COORDINATION	_	LINESPOTS@ELPASOTEXAS.GOV			

- 18. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PUBLIC WORKS DEPT. IN WRITING, OF ANY PROPOSED DUMP SITE(S) FOR OVERBURDEN AND ANY CONSTRUCTION DEBRIS FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL OBTAIN APPROVAL OF IT'S TRUCK ROUTE TO THE DUMP SITE, AS WELL AS FOR THE MATERIALS IT SHALL BE HAULING BEFORE REMOVAL OF OVERBURDEN FROM PROJECT SITE.
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING IT'S WORK AREAS TO PREVENT ANY UNAUTHORIZED ACCESS.
- 20. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED ACTIVITIES TO KEEP THE TOTAL PROJECT LIMITS IN A CLEAN AND SAFE CONDITION. SEQUENCING OF WORK DOES NOT RELIEVE THE CONTRACTOR OF HOUSE KEEPING THROUGHOUT THE COMPLETE PROJECT LIMITS. TO INCLUDE, BUT NOT LIMITED TO WATER EXTRACTION, STREET SWEEPING, DEBRIS, REMOVAL ETC.
- 21. CONTRACTOR SHALL COORDINATE WITH THE PUBLIC WORKS DEPT. THROUGH THE PROJECT MANAGER FOR REPLACEMENT AND/OR RELOCATION OF ANY EXISTING AND/OR PROPOSED SIGNS.
- 22. CONTRACTOR SHALL COORDINATE AND OBTAIN PERMIT APPROVALS FROM OWNER FOR THE REMOVAL/RELOCATION OF ALL ITEMS AS SHOWN ON DRAWINGS PRIOR TO COMMENCEMENT OF ANY DEMOLITION ACTIVITIES.
- 23. COORDINATE WITH THE PUBLIC WORKS COUNTY ENGINEER AT 915-546-2015 PRIOR TO REMOVAL/RELOCATION OF ANY EXISTING FIRE HYDRANTS, MONUMENTS, FENCES AND ROCKWALLS LOCATED WITHIN PROJECT LIMITS.
- 24. CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL MEASURES AS REQUIRED ALONG SAN FELIPE ROAD DURING PROJECT DURATION AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO ADDITIONAL PAYMENT WILL BE CONSIDERED.
- 25. AN ELECTRONIC COPY OF THE GEOTECHNICAL REPORT IS AVAILABLE UPON REQUEST. THE GEOTECHNICAL REPORT IS NOT PART OF THE CONTRACT DOCUMENTS AND I PROVIDED FOR INFORMATIONAL PURPOSES ONY. CONTACT FERNANDO SANCHEZ AT (915) 532-2091 OR EMAIL: fsanchez@morenocardenas.com TO REQUEST A COPY OF THE GEOTECHNICAL REPORT.

SPECIFICATION REFERENCE

XX XX XX SERIES OF NUMBERS ON PLANS USED TO CROSS-REFERENCE THE APPLICABLE TECHNICAL SPECIFICATION SECTION.

SECTION AND DETAIL REFERENCE



SURVEY ABBREVIATIONS

AC ASV CATV CBC CMP CONC DIP DIA EBX FH FM FOMKR FT GALV GM	CONCRETE DUCTILE IRON PIPE DIAMETER ELECTRIC BOX FIRE HYDRANT FORCE MAIN FIBER OPTIC MARKER FEET GALVANIZED GAS METER	•	SCO SS SSL SP STA STD STRM TBM TBX TC TD TG TMH TP TS TSBX	SEWER CLEANOUT SANITARY SEWER STAINLESS STEEL 0.2'Ø SIGNPOST STATION STANDARD STORM SEWER TEMPORARY BENCHMARK TELEPHONE PEDESTAL TOP OF CURB TOP OF DRIVEWAY TOP OF GROUND TELEPHONE MANHOLE TOP OF PAVEMENT TOP OF SIDEWALK TRAFFIC SIGNAL BOX
GV	GAS VALVE			
		•	TW	TOP OF WALL
GP	GUARDPOST	•	TYP	TYPICAL
GR	NATURAL GROUND	•	W∨	WATER VALVE

WM WATER METER

GAS VALVE HMAC HOT MIXED ASPHALTIC CONCRETE INVERT INV IRRIGATION VALVE

 MAX MAXIMUM MBX MAILBOX MIN MINIMUM MANHOLE NOM NOMINAL OF CENTER OC OCEW OF CENTER EACH WAY OUTSIDE DIAMETER

LT

PROFILE GRADE LINE PGL PROPERTY LINE POWER POLE POLYVINYL CHLORIDE PVC REINFORCED CONCRETE PIPE

 RT ROW RIGHT OF WAY ROE RIGHT OF ENTRY

SURVEY LEGEND

Ø	POWER POLE
	CONCRETE
OHEOHE	OVERHEAD POWER LINE
	MAJOR CONTOUR
	MINOR CONTOUR

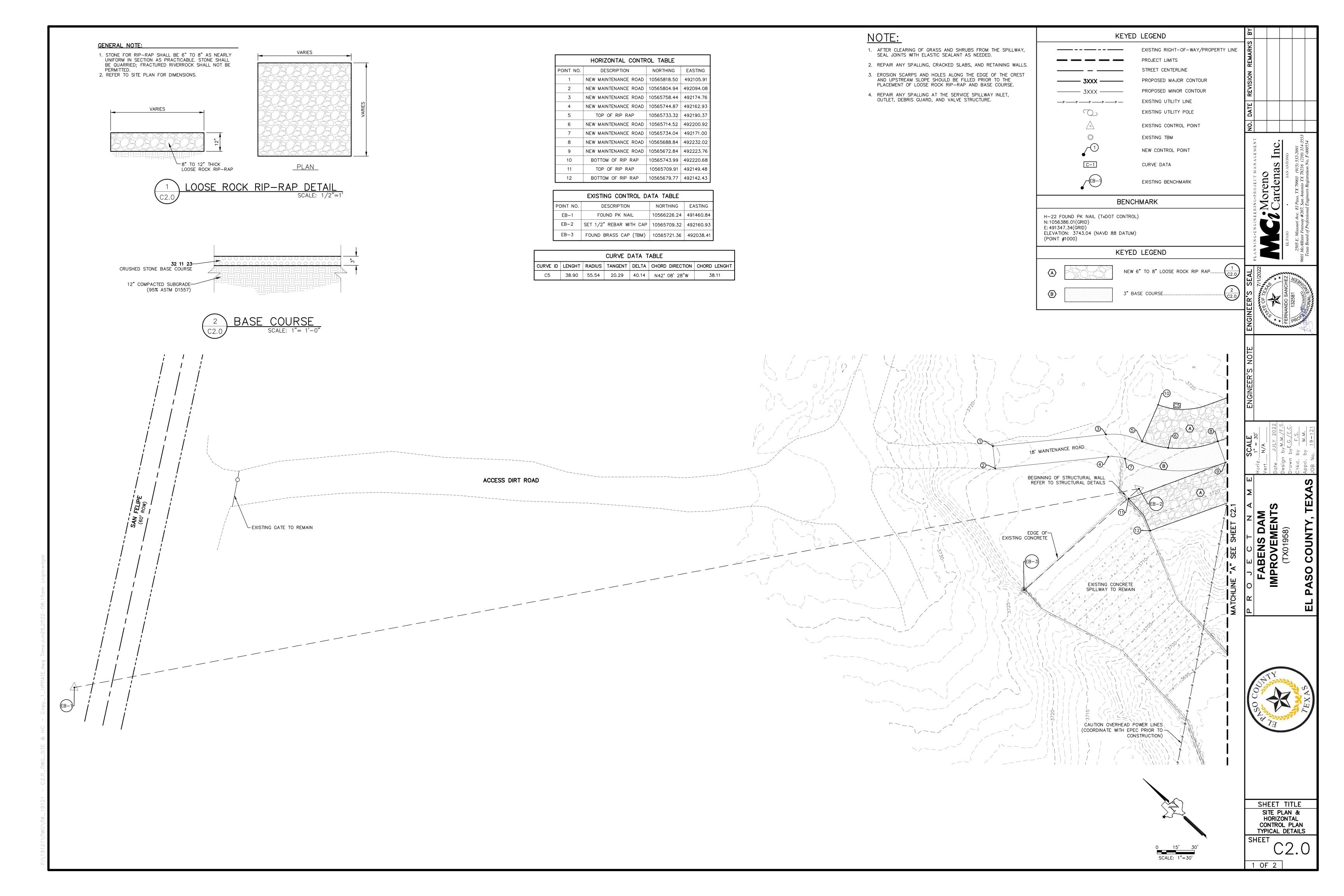
SHEET INDEX

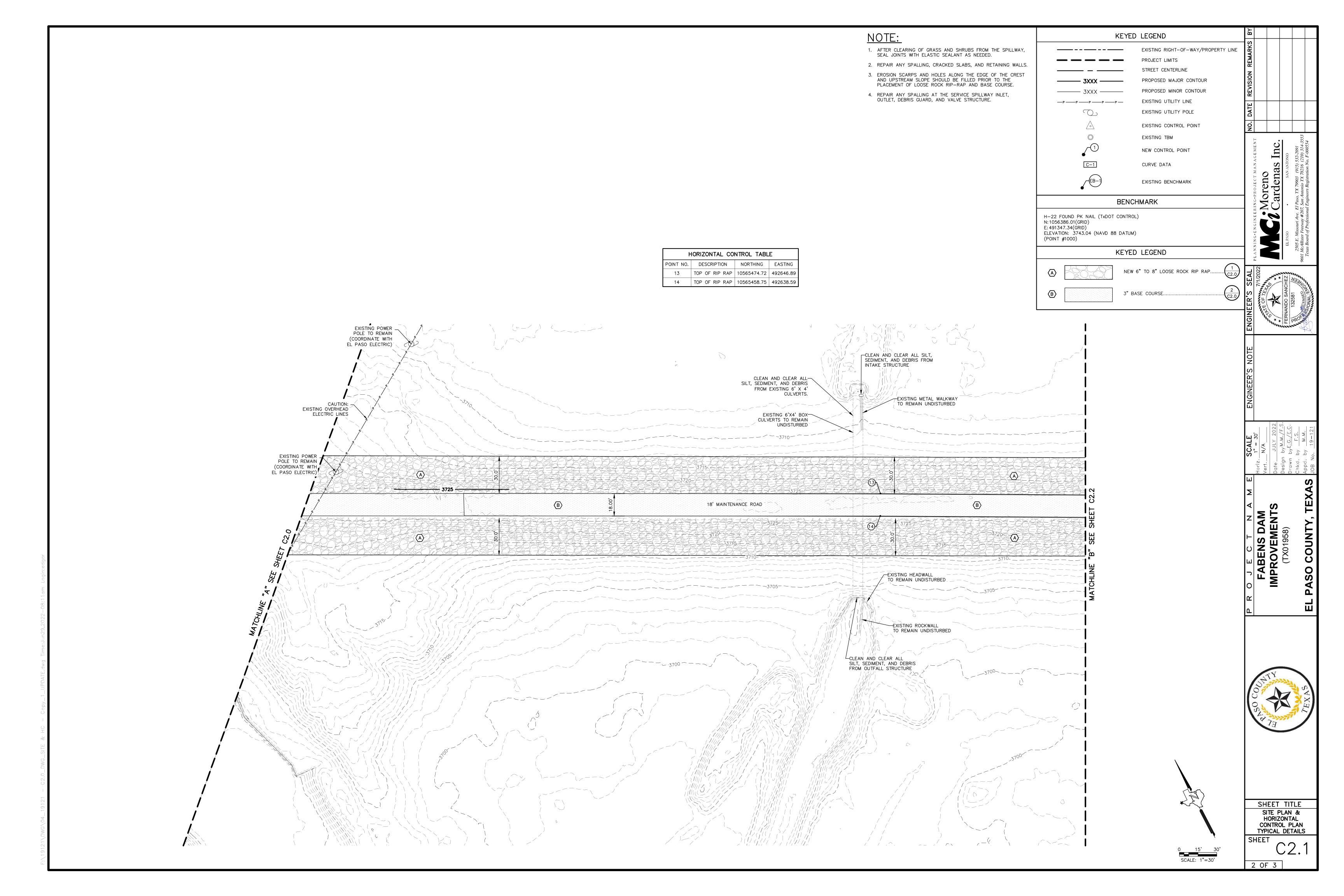
CIVIL	
COVER SHEET	G0.0
GENERAL NOTES & LEGEND	G1.0
TOPOGRAPHIC SURVEY	•
SITE PLAN AND HORIZONTAL CONTROL PLAN	. C2.0-C2.2
OVERALL WATERSHED MAP	. C3.0
GRADING PLAN	. C4.0-C4.2
GRADING CROSS SECTIONS	. C5.0
SW3P SITE PLAN & TYPICAL DETAILS	. C6.0-C6.1
SW3P GENERAL NOTES	. C7.0
SW3P DETAILS	C8 0



SHEET TITLE INDEX AND **GENERAL NOTES**

G1.0



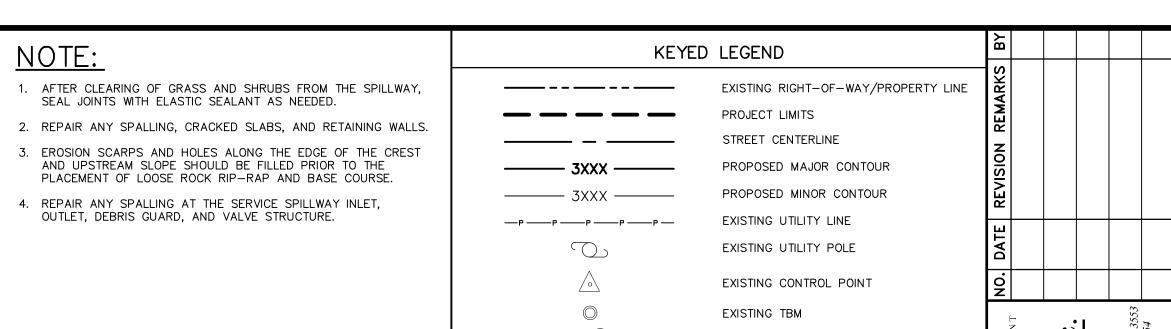


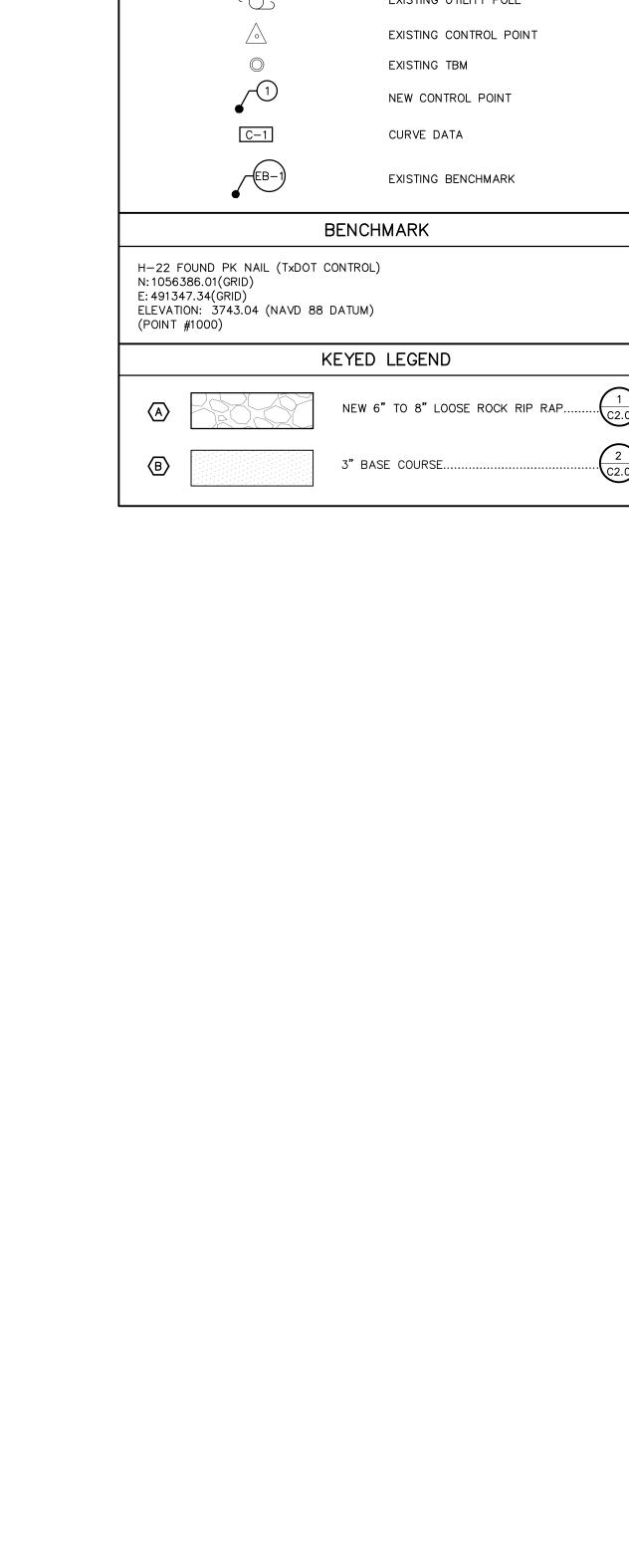
	HORIZONTAL CON	TROL TABLE	
POINT NO.	DESCRIPTION	NORTHING	EASTING
15	TOP OF RIP RAP	10565215.77	493140.82
16	TOP OF RIP RAP	10565199.11	493133.93
17	BOTTOM OF RIP RAP	10565247.65	493147.87
18	BOTTOM OF RIP RAP	10565238.53	493173.23
19	BOTOTM OF RIP RAP	10565217.85	493205.83
20	BOTTOM OF RIP RAP	10565129.11	493174.04
21	BOTTOM OF RIP RAP	10565125.15	493170.79
22	BOTTOM OF RIP RAP	10565127.26	493150.84
23	BOTTOM OF RIP RAP	10565131.15	493121.03
24	BOTTOM OF RIP RAP	10565165.69	493126.43
25	BOTTOM OF RIP RAP	10565177.04	493112.83
26	BOTTOM OF RIP RAP	10565332.92	493257.89
27	BOTTOM OF RIP RAP	10565354.89	493250.54
28	TOP OF RIP RAP	10565347.94	493278.59
29	TOP OF RIP RAP	10565179.49	493340.48
30	BOTTOM OF RIP RAP	10565189.12	493312.07
31	BOTTOM OF RIP RAP	10565009.28	493250.10
32	TOP OF RIP RAP	10565018.58	493285.07
33	TOP OF RIP RAP	10564985.32	493231.75
34	BOTTOM OF RIP RAP	10564999.52	493237.58

	HORIZONTAL CON	TROL TABLE	
POINT NO.	DESCRIPTION	NORTHING	EASTING
35	BOTTOM OF RIP RAP	10565023.64	493109.70
36	TOP OF RIP RAP	10565006.94	493116.75
37	TOP OF RIP RAP	10565004.88	493104.74
38	TOP OF RIP RAP	10565216.06	493155.31
39	TOP OF RIP RAP	10565224.97	493176.85
40	TOP OF RIP RAP	10565215.65	493189.11
41	TOP OF RIP RAP	10565187.43	493178.99
42	TOP OF RIP RAP	10565182.67	493172.59

EXIS	STING CONTR	OL DATA TA	ABLE
POINT NO.	DESCRIPTION	NORTHING	EASTING
EB-4	FOUND POINT	10565197.95	493153.95

CURVE DATA TABLE						
CURVE ID	LENGHT	RADIUS	TANGENT	DELTA	CHORD DIRECTION	CHORD LENGHT
C6	51.37	20.20	65.47	145.70	N57° 37' 42"W	38.61
C9	8.40	7.56	4.70	63.68	N53° 21' 01"E	7.98
C10	40.84	38.67	22.56	60.51	N26° 26′ 40″W	38.97
C11	21.93	18.36	12.48	68.43	S26° 46′ 30″E	20.65
C12	3.40	6.41	1.74	30.42	N78° 03' 36"E	3.36
C13	2.09	2.60	1.11	46.20	S59° 46′ 26″E	2.04
C14	25.87	16.09	16.69	92.09	N18° 30' 08"W	23.17
C15	190.22	161.86	107.82	67.34	S20° 10' 27"E	179.47
C16	164.28	130.63	95.00	72.05	N20° 38′ 35″W	153.67
C17	17.23	12.39	10.34	79.72	N52° 05' 15"E	15.88
C18	67.97	49.91	40.44	78.03	S58° 02' 59"W	62.84
C19	12.28	29.66	6.23	23.71	S80° 17' 48"W	12.19

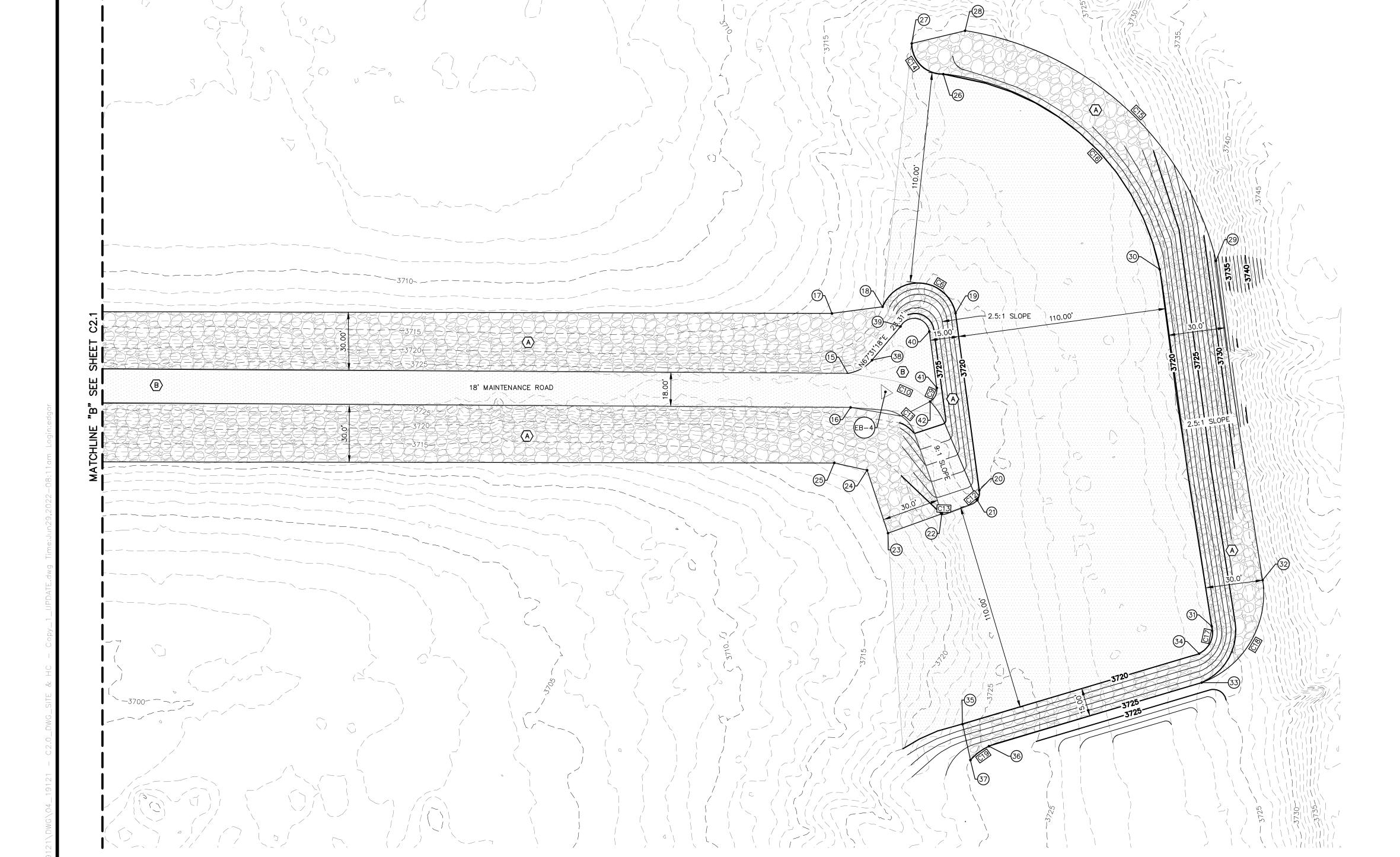


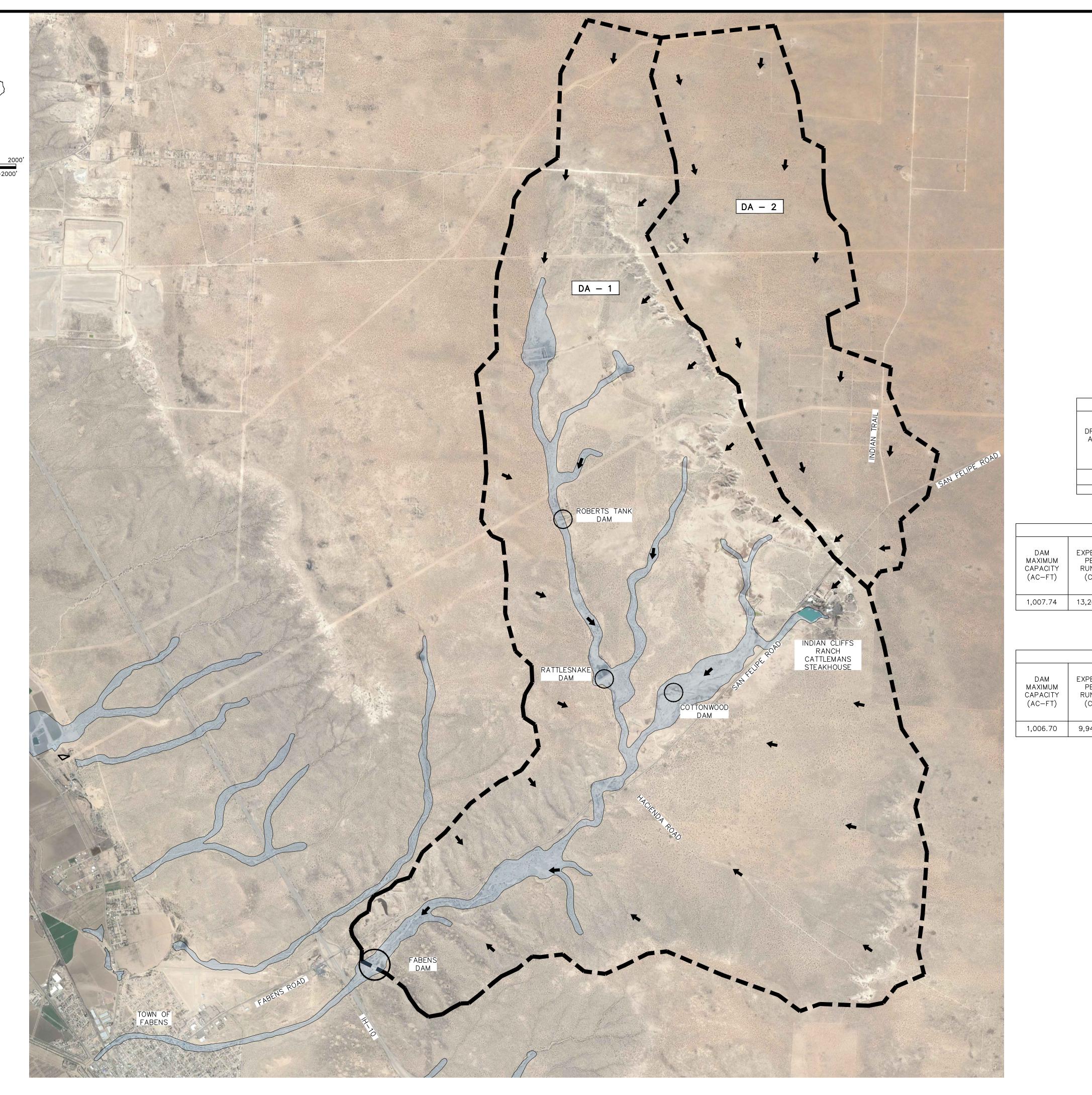


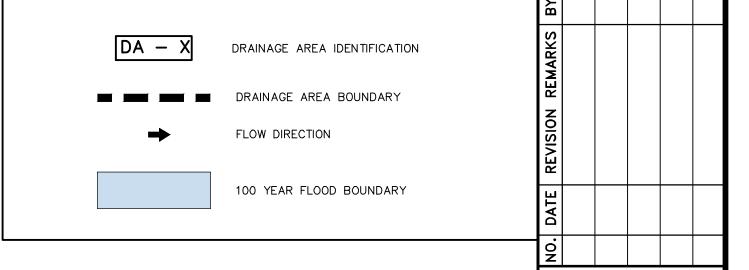




SHEET C2.







	ſ	DRAINAGE AREA	INFORMATI		
DRAINAGE AREA ID (1)	DRAINAGE AREA (SQMI) (2)	TIME OF CONCENTRATION (TC)	CURVE NUMBER (CN)	100-YEAR PEAK DISCHARGE 100% PMF (CFS)	100-YEAR PEAK DISCHARGE 75% PMF (CFS)
DA-1	18.00	180	63	11,896.00	8,922.00
DA-2	5.00	503.72	77	2,344.00	1,758.00

		FAE	BENS DAM	- EXISTIN	G CONDITION	DNS]
DAM MAXIMUM CAPACITY (AC-FT)	EXPECTED PEAK RUNOFF (CFS)	BOTTOM ELEVATION (FT)	HIGH WATER SURFACE ELEVATION (FT)	FREE BOARD (FT)	PRIMARY SPILLWAY OUTFLOW (CFS)	SERVICE SPILLWAY (CULVERTS) OUTFLOW (CFS)	AUXILIARY SPILLWAY OUTFLOW (CFS)	PEAK DISCHARGE (CFS)	
1,007.74	13,260.50	3700	3728.40	0	6,747.70	1,382.40	4,891.10	12,914.20	

NOTE: EXISTING CONDITIONS REPRESENT THE MAXIMUM RESERVOIR LEVEL AS PER TCEQ REGULATIONS.

1.006.70 9.945.40 3700 3725 0 5.080.60 1.338.90 3.331.50 13.021.30	IZ									
DAM MAXIMUM CAPACITY (AC-FT) EXPECTED PEAK RUNOFF (CFS) BOTTOM ELEVATION (FT) HIGH WATER SURFACE ELEVATION (FT) FREE BOARD (FT) PRIMARY SPILLWAY OUTFLOW (CFS) AUXILIARY SPILLWAY OUTFLOW (CFS) O 5.080.60 1.338.90 3.331.50 13.021.30				IONS	ED CONDIT	– PROPOSI	ENS DAM -	FABI		
1.006.70 9.945.40 3700 3725 0 5.080.60 1.338.90 3.331.50 13.021.30	EC	OUTFLOW	SPILLWAY OUTFLOW	SPILLWAY (CULVERTS) OUTFLOW	SPILLWAY OUTFLOW		SURFACE ELEVATION	ELEVATION	PEAK RUNOFF	MAXIMUM CAPACITY
		13,021.30	3,331.50	1,338.90	5,080.60	0	3725	3700	9,945.40	1,006.70

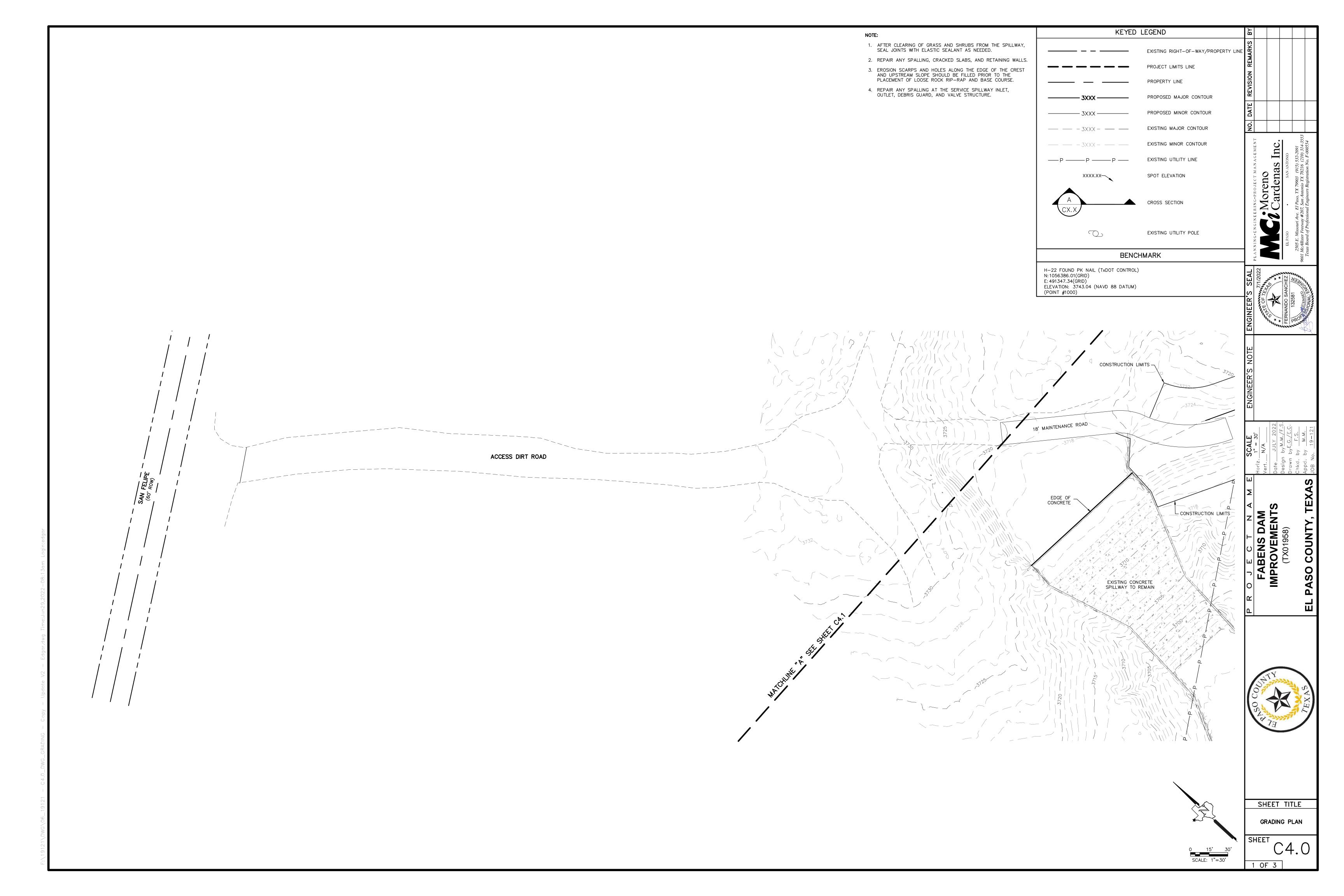
NOTE:
PROPOSED CONDITIONS REPRESENT SAFELY PASSING 75% OF THE PMF AS PER TCEQ REGULATIONS.

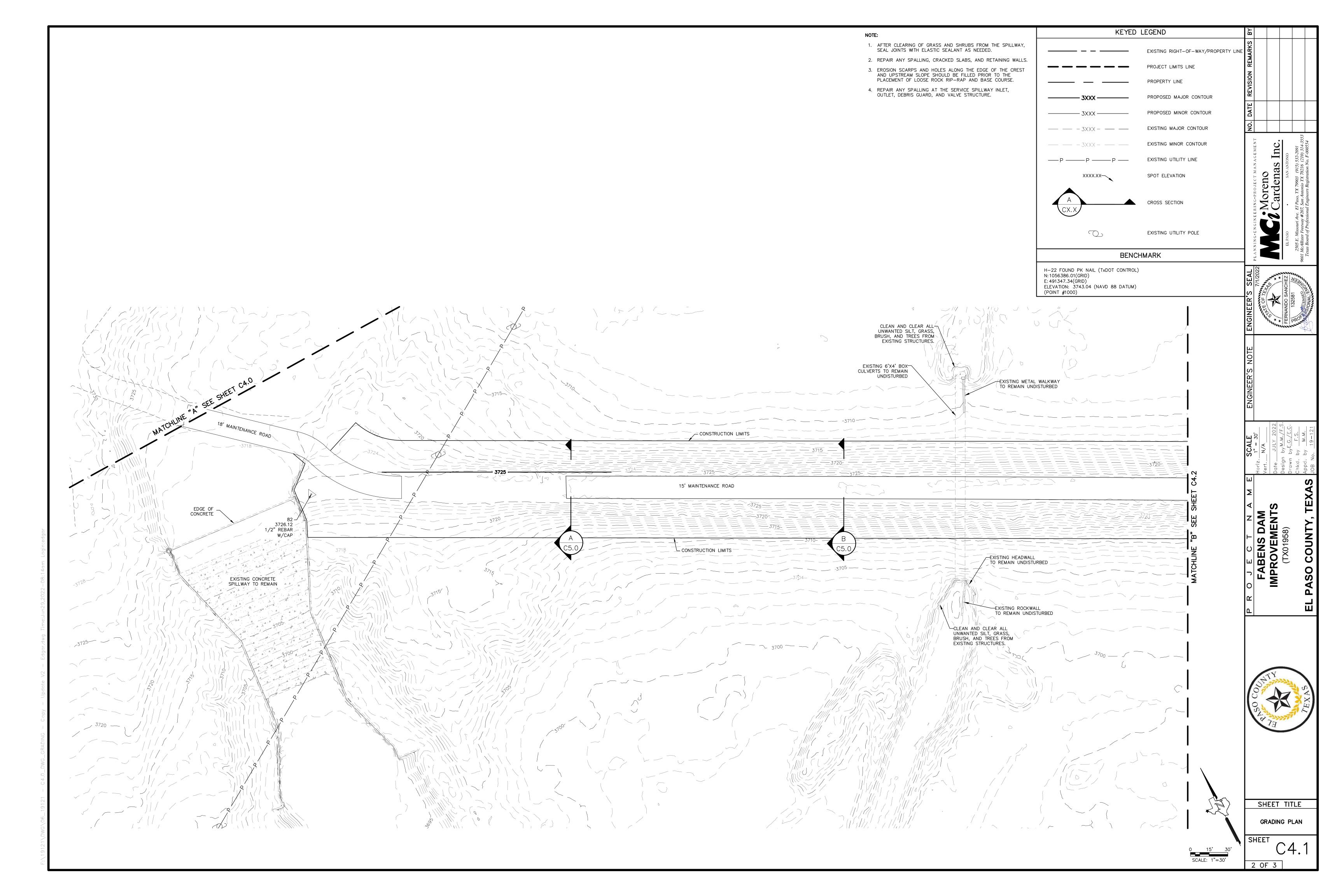


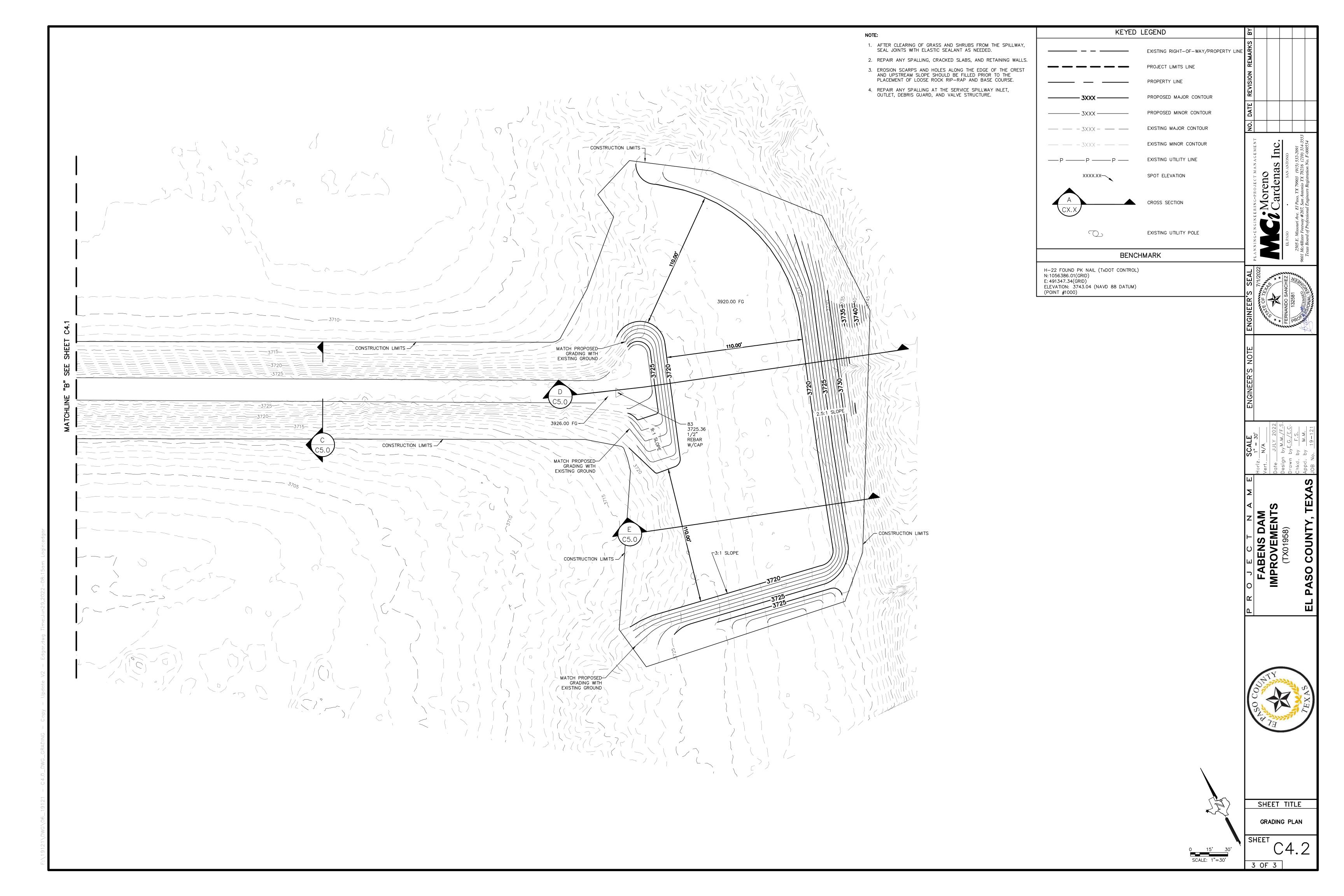
SHEET TITLE

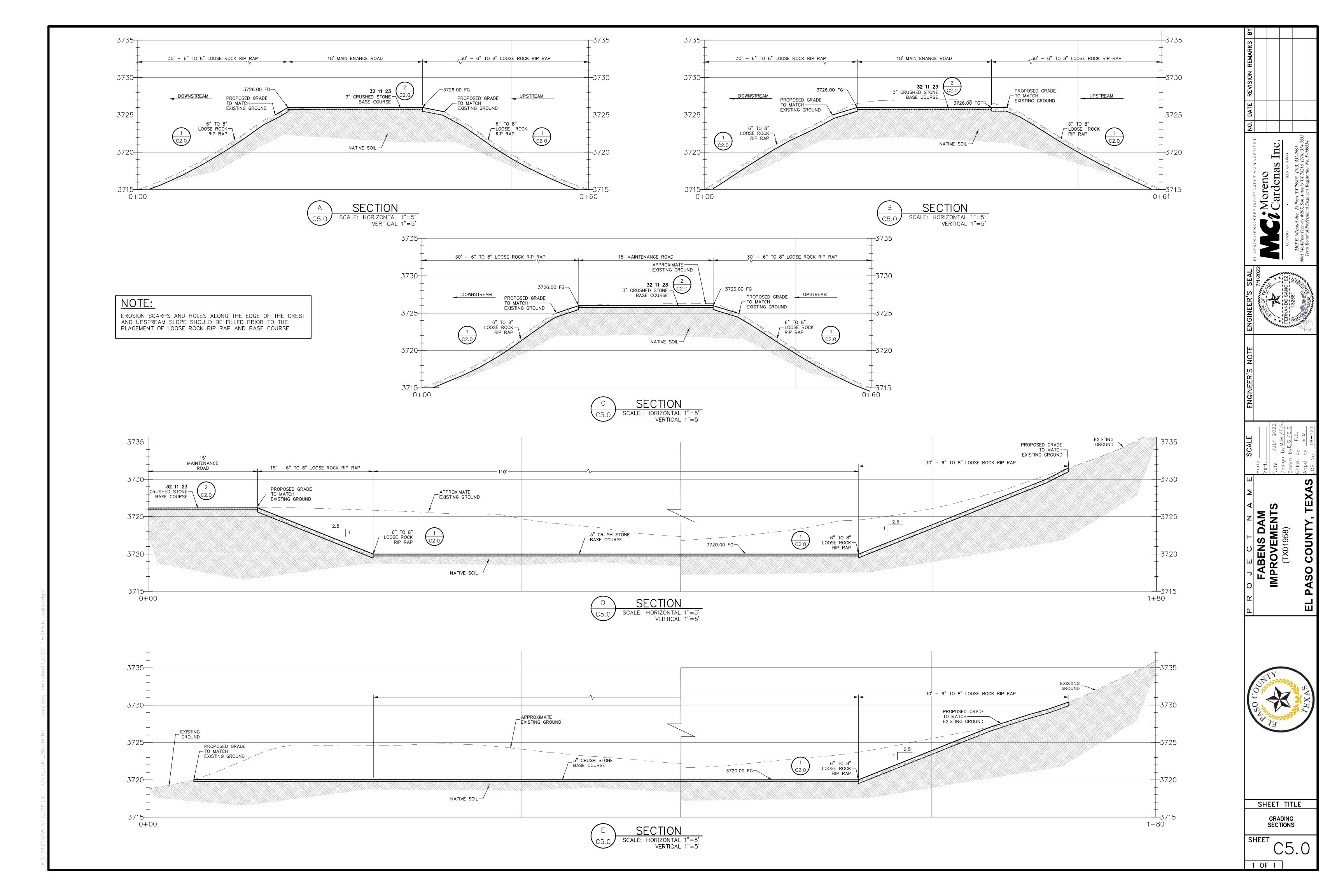
OVERALL
WATERSHED MAP

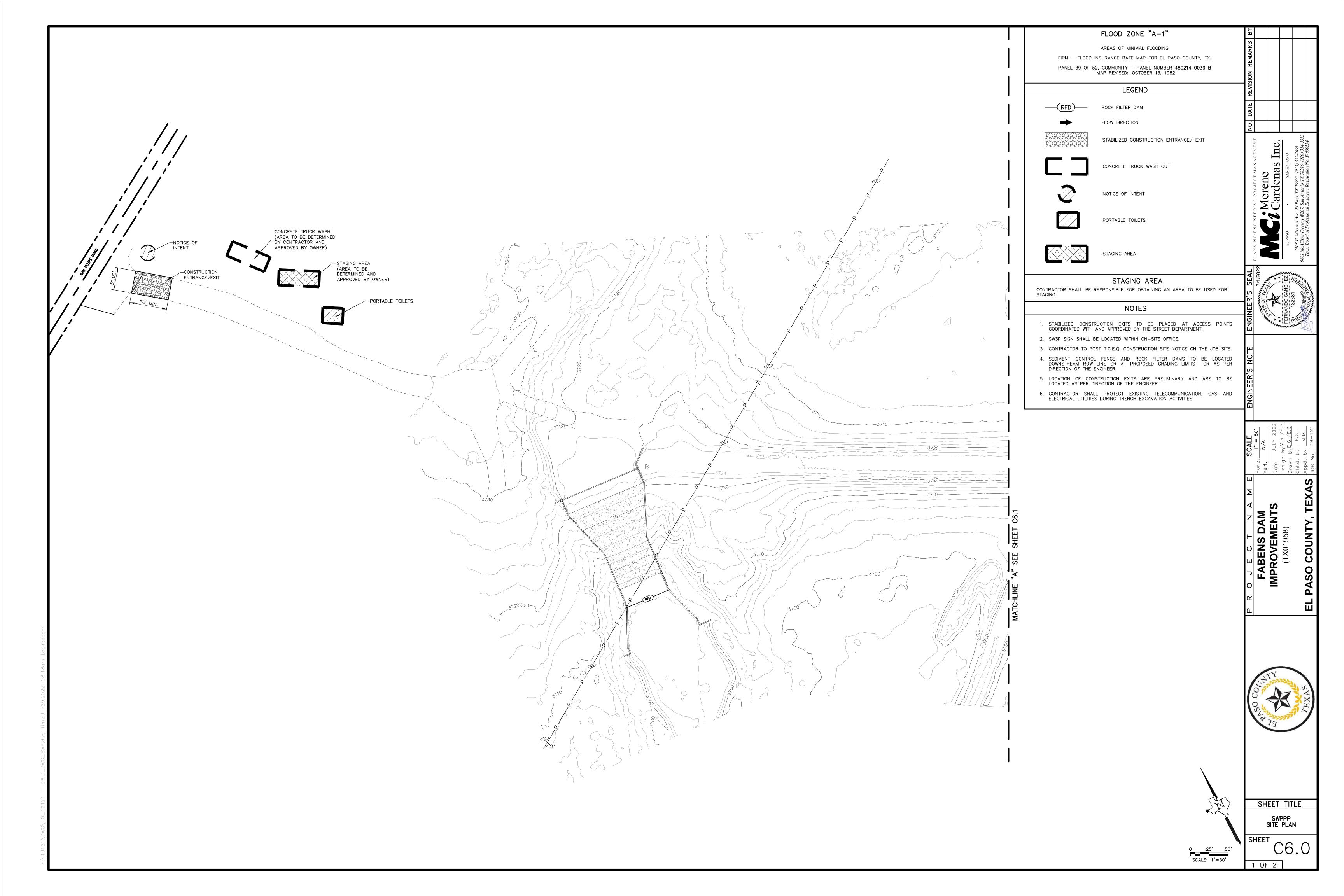
SHEET C3.0

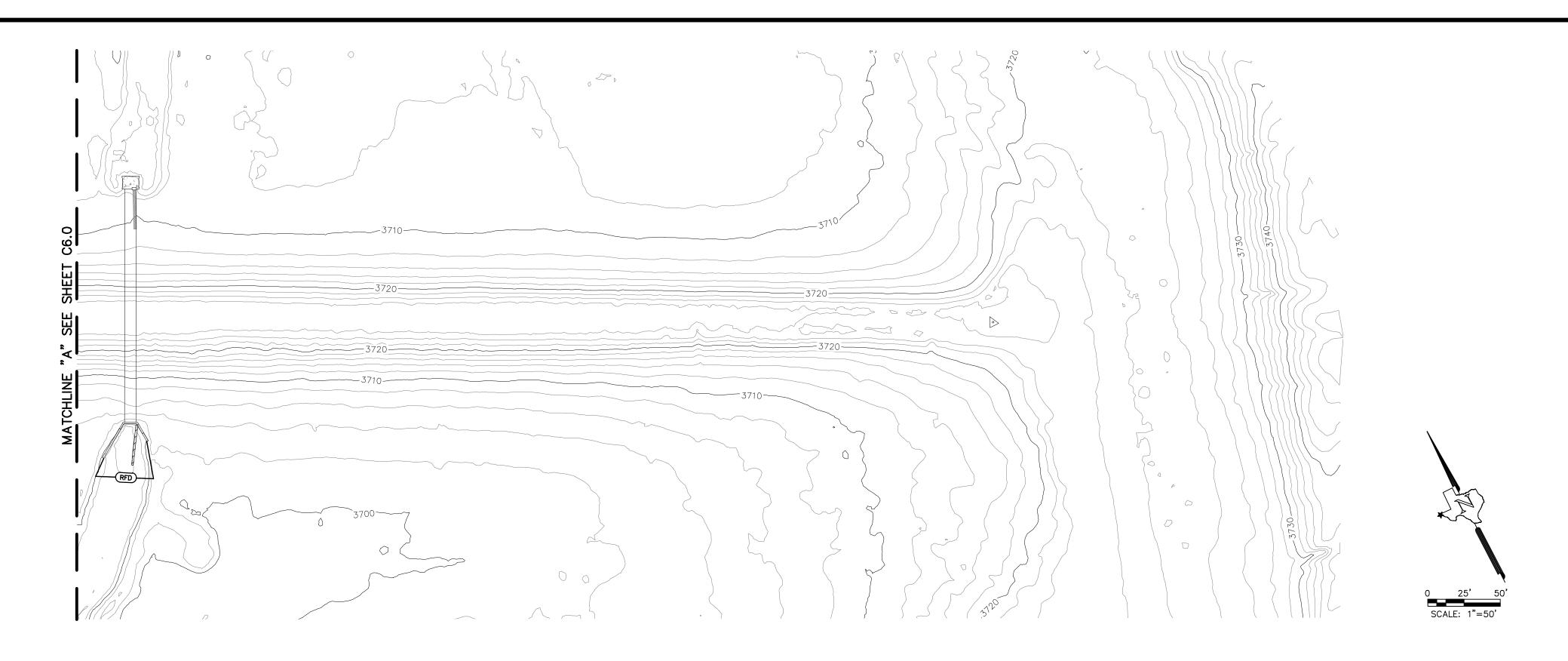


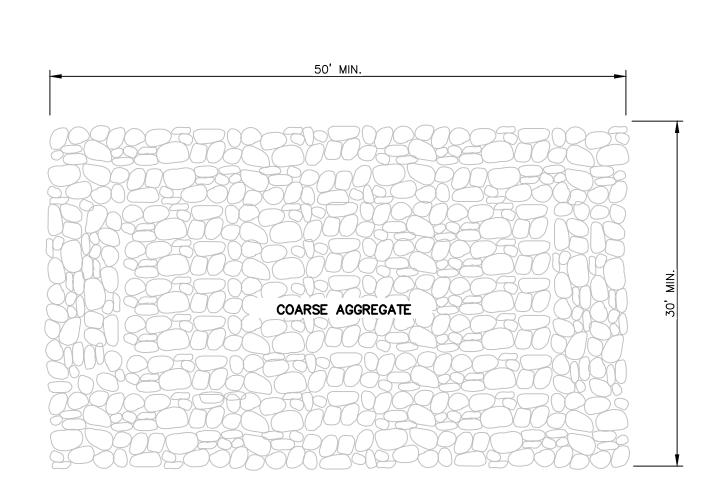




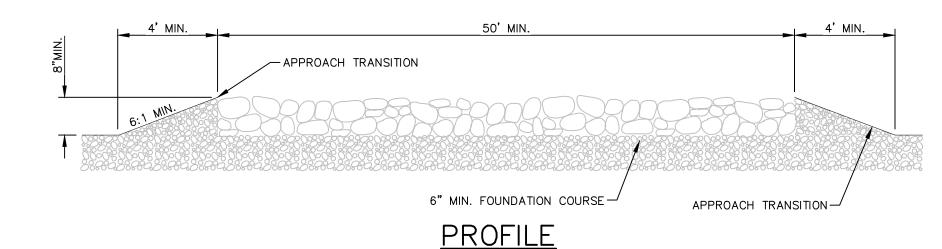








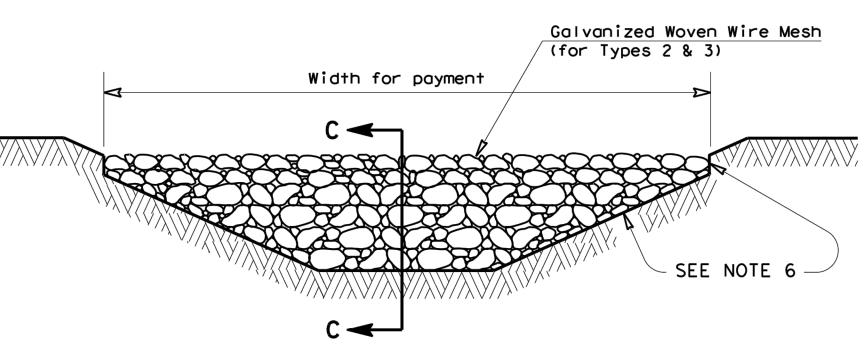
PLAN



GENERAL NOTES:

- 1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
- 2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
- 3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
- 4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE
- 5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.





FILTER DAM AT CHANNEL SECTIONS

—— (RFD1) —— (RFD2) —— (RFD3) —— (RF

GENERAL NOTES

- 1. If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream at drainage structures, and in roadway ditches and channels to collect sediment.
- 2. Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation Control".
- 3. The rock filter dam dimensions shall be as indicated on the SW3P plans.
- 4. Side slopes should be 2:1 or flatter. Dams within the safety zone shall have sideslopes of 6:1 or flatter.
- 5. Maintain a minimum of 1' between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
- 6. Filter dams should be embedded a minimum of 4" into existing ground.
- 7. The sediment trap for ponding of sediment laden runoff shall be of the dimensions shown on the plans.
- 8. Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed on the mesh to the height & slopes specified. The mesh shall be folded at the upstream side over the aggregate and tightly secured to itself on the downstream side using wire ties or hog rings. For in stream use, the mesh should be secured or staked to the stream bed prior to aggregate placement.
- 9. Sack Gabions should be staked down with $\frac{3}{4}$ " dia. rebar stakes, and have a double-twisted hexagonal weave with a nominal mesh opening of $2\frac{1}{2}$ " x $3\frac{1}{4}$ "
- 10. Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
- 11. The guidelines shown hereon are suggestions only and may be modified by the Engineer.



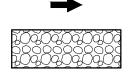
FLOOD ZONE "A-1"

AREAS OF MINIMAL FLOODING FIRM - FLOOD INSURANCE RATE MAP FOR EL PASO COUNTY, TX.

PANEL 39 OF 52, COMMUNITY - PANEL NUMBER 480214 0039 B MAP REVISED: OCTOBER 15, 1982

LEGEND

ROCK FILTER DAM



STABILIZED CONSTRUCTION ENTRANCE/ EXIT



CONCRETE TRUCK WASH OUT

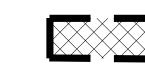


NOTICE OF INTENT

FLOW DIRECTION



PORTABLE TOILETS



STAGING AREA



NOTES

- 1. STABILIZED CONSTRUCTION EXITS TO BE PLACED AT ACCESS POINTS COORDINATED WITH AND APPROVED BY THE STREET DEPARTMENT.
- 2. SW3P SIGN SHALL BE LOCATED WITHIN ON-SITE OFFICE.
- 3. CONTRACTOR TO POST T.C.E.Q. CONSTRUCTION SITE NOTICE ON THE JOB SITE.
- 4. SEDIMENT CONTROL FENCE AND ROCK FILTER DAMS TO BE LOCATED DOWNSTREAM ROW LINE OR AT PROPOSED GRADING LIMITS OR AS PER DIRECTION OF THE ENGINEER.
- 5. LOCATION OF CONSTRUCTION EXITS ARE PRELIMINARY AND ARE TO BE LOCATED AS PER DIRECTION OF THE ENGINEER.
- 6. CONTRACTOR SHALL PROTECT EXISTING TELECOMMUNICATION, GAS AND ELECTRICAL UTILITIES DURING TRENCH EXCAVATION ACTIVITIES.



SHEET TITLE

SITE PLAN

C6.

SITE DESCRIPTION
PROJECT NAME AND LIMITS: FABENS DAM IMPROVEMENTS THE PROJECT LIES NORTH OF THE TOWN OF FABENS AND JUST UPSTREAM OF INTERSTATE HIGHWAY 10 (IH-10). THE EXISTING DAM IS LOCATED AT THE BASE OF SAN FELIPE ARROYO.
PROJECT DESCRIPTION: THE PROPOSED IMPROVEMENTS CONSIST OF THE REPAIR OF EROSION AREAS ON BOTH THE UPSTREAM AND DOWNSTREAM SIDE SLOPES, REMOVAL OF VEGETATION GROWTH, SILT REMOVAL, WIDENING AND LOWERING THE EXISTING EARTHEN EMERGENCY AUXILIARY SPILLWAY ELEVATION. LOCATED ON THE EASTSIDE OF THE DAM.
EXISTING CONDITIONS: THE FABENS DAM IS AN EXISTING INTERMEDIATE SIZED DAM WITH AN APPROXIMATE HEIGHT OF 40—FEET. THE EARTHEN DAM WAS CONSTRUCTED IN 1938 AS A FLOOD CONTROL MEASURE FOR EL PASO COUNTY. IT IS 1,200 FEET IN LENGTH WITH 2 TO 1 (H: V) SIDE SLOPES. THERE IS A 100—FOOT WIDE CONCRETE SPILLWAY STRUCTURE ON THE WEST SIDE OF THE DAM AND A SECONDARY EARTHEN SPILLWAY APPROXIMATELY 50—FEET WIDE TO THE EAST OF THE DAM. A SERVICE SPILLWAY LOCATED AT THE BOTTOM CENTER OF THE DAM CONSISTS OF TWO (2) 6—FOOT BY 4—FOOT CONCRETE BOX CULVERTS WHICH DISCHARGES RUNOFF THROUGH THE DAM STRUCTURE DOWNSTREAM.
MAJOR SOIL DISTURBING ACTIVITIES: MAJOR SOIL DISTURBING ACTIVITIES WILL CONSIST OF EXCAVATION FOR THE NEW CONCRETE WALL FOOTING AND GRADING ACTIVITIES FOR THE EXISTING EARTHEN EMERGENCY SPILLWAY EXPANSION.
TOTAL PROJECT AREA: 9.50± ACRES
TOTAL AREA TO BE DISTURBED: 5.00± ACRES WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.33
EXISTING CONDITION OF SOIL AND VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: THE FABENS DAM LIES AT THE BASE OF THE SAN FELIPE ARROYO IN FAR EAST EL PASO COUNTY. THE SOILS IN THIS AREA BELONG TO THE BLUEPOINT ASSOCIATION WHICH IS DEFINED AS DEEP, GENTLY SLOPING TO STRONGLY SLOPING SOILS THAT HAVE LOAMY SAND UNDERLYING MATERIAL, JUST ABOVE THE RIO GRANDE FLOOD PLAIN. THERE IS MINIMAL VISIBLE UNWANTED VEGETATION GROWTH. THE FABENS DAM IS MAINTAINED ANNUALLY BY THE EL PASO COUNTY ROADS AND BRIDGE DEPARTMENT. ANNUAL MAINTENANCE INCLUDES: VEGETATION REMOVAL, AND BLADING/GRADING OF BOTH THE UPSTREAM AND DOWNSTREAM NATURAL ARROYOS.
NAME OF RECEIVING WATERS: THE EXISTING DAM CAPTURES STORM WATER RUNOFF FROM THE MAIN STEM OF THE SAN FELIPE ARROYO AND CONTRIBUTING TRIBUTARIES IMMEDIATELY UPSTREAM OF FABENS. RUNOFF DISCHARGING FROM THE DAM RUNS DOWNSTREAM PAST IH-10 AND THROUGH THE TOWN OF FABENS VIA AN APPROXIMATE 15-FOOT WIDE NATURAL ARROYO WHICH ULTIMATELY DISCHARGES INTO EXISTING IRRIGATION CANALS SOUTH OF THE TOWN.
EROSION AND SEDIMENT CONTROL
SOIL STABILIZATION PRACTICES TEMPORARY SEEDING
PERMANENT PLANTING, SODDING, OR SEEDING MULCHING
SOIL RETENTION BLANKET BUFFER ZONES

X Preservation of Natural Resources

OTHER:_

TRUCTURAL F	
	_ HAY BALES
	ROCK BERMS
	DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
	DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
	_ DIVERSION DIKE AND SWALE COMBINATION
	_ PIPE SLOPE DRAINS
	_ CONCRETE FLUMES
	ROCK BEDDING AT CONSTRUCTION EXIT (TEMPORARY)
	_ TIMBER MATTING AT CONSTRUCTION EXIT
	_ CHANNEL LINERS
	_ SEDIMENT TRAPS
	_ SEDIMENT BASINS
	_ STORM INLET SEDIMENT TRAP
	_ STONE OUTLET STRUCTURES
	_ CURBS AND GUTTERS
	_ STORM DRAINS
	_ VELOCITY CONTROL DEVICES
	_ VEGETATED SWALES & NATURAL DEPRESSIONS
OTHER:_	
IARRATIVE —	SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:
	1. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS (e.g. SILT FENCE AND/OR
	STABILIZED CONSTRUCTION ENTRANCE);
-	2. CLEARING, DEMOLITION AND EXCAVATION OF PROJECT AREA;
	3. SUBGRADE PREPARATION, CONSTRUCTION OF PROPOSED IMPROVEMENTS;
	4. WHEN ALL CONSTRUCTION ACTIVITY RELATED IN DEVELOPMENT OF THE SITE IS
	COMPLETE, REMOVE TEMPORARY CONTROLS IN #1 ABOVE BEGIN DATE: AUGUST 2022 (APPROXIMATE)
	END DATE: JANUARY 2023 (APPROXIMATE)

BEST MANAGEMENT PRACTICES CONTROLS

WASTE MATERIALS:

ALL WASTE MATERIALS, INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE. THE TRANSIT DUMPSTER SHALL COMPLY WITH ORDINANCE 18.52.010 (ENCLOSURE AND REMOVAL OF WASTE MATERIALS DURING CONSTRUCTION). THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY ORDINANCE 9.04 (SOLID WASTE MANAGEMENT) AND THE TRASH SHALL BE HAULED TO A LICENSED LANDFILL.

HAZARDOUS WASTE:

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE FIRE DEPT. AND TNRCC.

SANITARY WASTE:

ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY OR AS REQUIRED, CHAPTER 18.08 (BUILDING CODE), BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

SPILL PREVENTION:

THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

A. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB

B. NEATLY STORE MATERIALS ON-SITE IN AN ORDERLY MANNER

C. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER

D. DO NOT MIX SUBSTANCES WITH ONE ANOTHER, UNLESS OTHERWISE

RECOMMENDED BY THE MANUFACTURER

E. USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING THE CONTAINER

F. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL

HAZARDOUS PRODUCTS:

PRACTICES USED TO REDUCE RISKS:

- A. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE
- B. RETAIN ORIGINAL LABELS, PRODUCT INFORMATION AND MATERIAL

OR LOCAL & STATE RECOMMENDED METHODS

SAFETY DATA SHEETS (MSDS) C. DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURER'S

PETROLEUM PRODUCTS:

ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

SPILL CONTROL PRACTICES:

- A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES:
- B. MATERIALS AND EQUIPMENT NECESSARY FOR CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE:
- C. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY
- D. SPILL AREA SHALL BE WELL VENTILATED AND APPROPRIATE CLOTHING WILL
- E. ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY
- F. MEASURES SHALL BE TAKEN TO PREVENT A SPILL FROM REOCCURRING

MAINTENANCE AND INSPECTION PROCEDURES:

ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE A MONTH OR WITHIN 24-HOURS PRIOR TO ANTICIPATED STORM EVENT AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. INSPECTION IN FINAL STABILIZED AREAS OR DURING ARID PERIODS WILL BE CONDUCTED MONTHLY, BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL PROCEDURES SHALL BE INSPECTED FOR ADEQUACY.

REMARKS:

DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEANED AS SOON AS PRACTICABLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.

OFFSITE VEHICLE TRACKING:

OTHER: _____

IN ADDITION TO THE STABILIZED CONSTRUCTION ENTRANCES, THE FOLLOWING MEASURES SHALL BE OBSERVED DURING CONSTRUCTION:

- HAUL ROADS SHALL BE DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPAULIN
- EXCESS DIRT ON ROAD SHALL BE REMOVED IMMEDIATELY

 STABILIZED CONSTRUCTION ENTRANCE 				
	_	STABILIZED	CONSTRUCTION	ENTRANCE



SHEET TITLE

GENERAL NOTES