October 2, 2024

Mr. Otis Spriggs Director of Development Services City of Angleton 121 S. Velasco Angleton, TX 77515

Re: On-Going Services
 Ashland Sections 1 and 2 Construction Plans – <u>3rd Submittal Review</u>
 Angleton, Texas
 HDR Job No. 10391496

Dear Mr. Spriggs:

HDR Engineering, Inc. (HDR) has reviewed the construction plans for the above referenced subdivision and offers the following comments:

Construction Plans

- 1. Respective Authority Approvals shall be coordinated and received prior to construction. This includes but is not limited to Brazoria County and TxDOT.
- 2. The storm pipe material within the planset was previously designed using reinforced concrete pipe and has changed to "HP Storm Pipe" with the most recent submittals. Request for the use of this pipe material alternative was recently coordinated through the City in which use of the pipe would be allowed subject to the installation being performed per standard specifications designated by TxDOT. A formal request shall be made in writing for use of the pipe in other concurrent and future sections within the subdivision.

HDR takes no objection to the proposed Ashland Sections 1 and 2 Construction Plans with the exceptions noted. Please note, this does not necessarily mean that the entire drawings, including all supporting data and calculations, has been completely checked and verified; however, the drawings and supporting data are signed, dated, and sealed by a Professional Engineer licensed to practice in the State of Texas, which therefore conveys the engineer's responsibility and accountability.

If you have any questions, please feel free to contact us at our office (713)-622-9264.

Sincerely,

HDR Engineering, Inc.

Javier Vasquez, P.E., CFM Civil Engineer

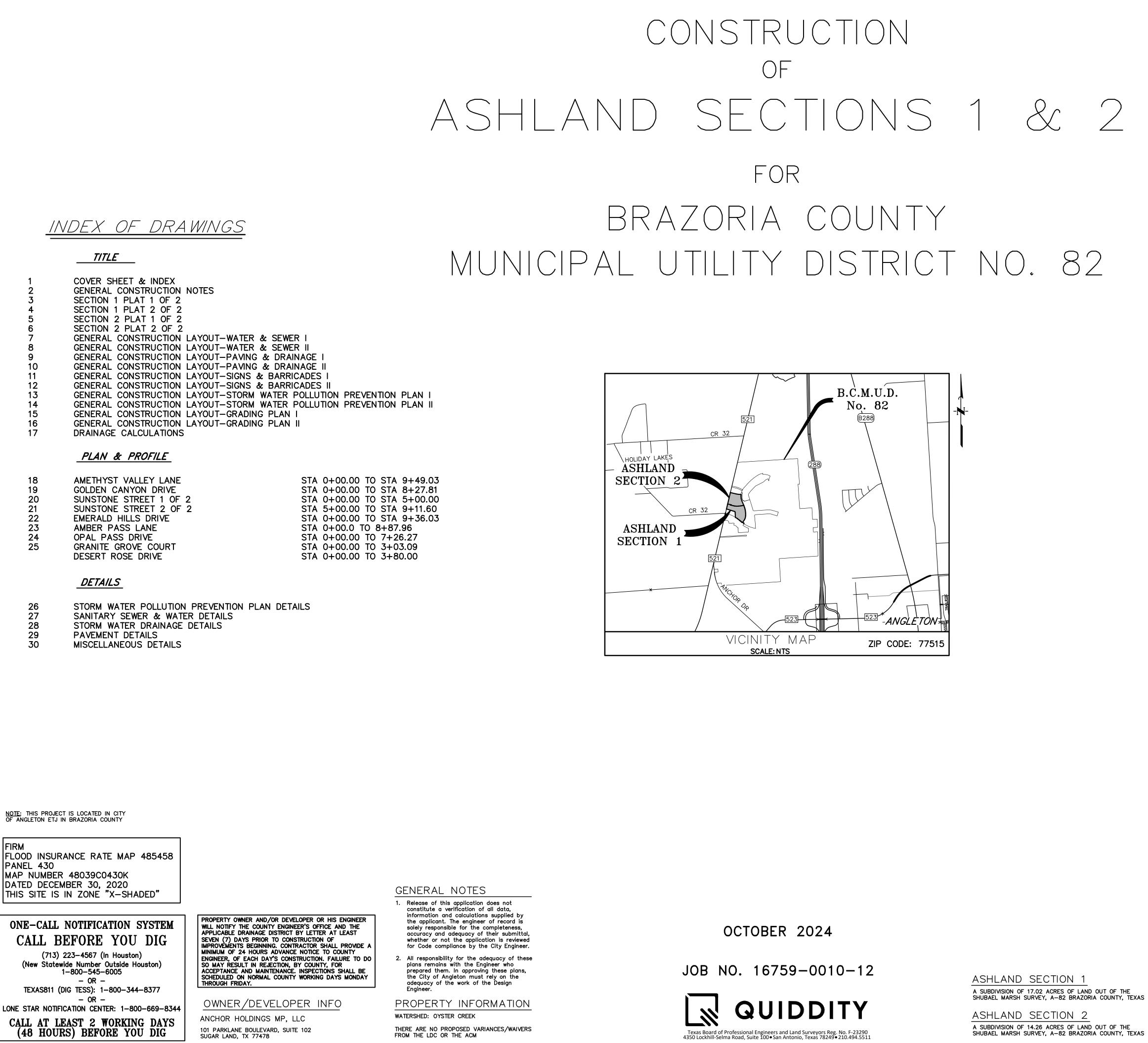
cc: Files (10391496)

Attachments

 hdrinc.com
 4828 Loop Central Drive, Suite 700, Houston, TX 77081-2220

 T (713) 622-9264
 F (713) 622-9265

 Texas Registered Engineering Firm F-754



		SNC
		REVISIONS
		DATF
		CN

Date Otis Spriggs City of Angleton Director of Development Brazoria County Municipal Utility District Date No. 82 Engineer l, Darren J. McAfee, a Professional Engineer licensed in the State of Texas, do hereby certify that these plans were prepared under my supervision to meet or exceed the specifications and requirements of Brazoria County, Texas. Dann Malen 10/1/2024 Date Darren J. McAfee, P.E. * DARREN J. MCAFEE 137808

SHEET No. 1 OF 30

1.	GLETON GENERAL CONSTRUCTION NOTES:	
	ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ANGLETON CONSTRUCTION MANUAL	1
n	(ACM) AND LAND DEVELOPMENT CODE, HEREAFTER REFERRED TO THE ACM AND THE LDC.	
2.	APPROVAL OF THESE CONSTRUCTION PLANS DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS	
	SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, ADEQUACY, AND COMPLIANCE OF THE	
2	SUBMITTED PLANS.	
3.	ALL RESPONSIBILITY FOR THE PLANS RESTS ON DESIGN ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY MUST RELY ON THE ADEQUACY AND ACCURACY OF THE DESIGN	
	ENGINEER.	2
4.	DESIGNS SHALL BE IN COMPLETE COMPLIANCE WITH THE LDC AND THE ACM. ANY WAIVER,	
	DEVIATION, VARIANCE, OR EXCEPTION FROM ANY SPECIFIC REQUIREMENT(S) OF THE LDC OR ACM THAT WERE NOT EXPRESSLY REQUESTED WHEN PLANS ARE SUBMITTED, SHALL NOT BE CONSTRUED	3
	TO HAVE BEEN GRANTED IF PLANS ARE APPROVED. IT IS THE RESPONSIBILITY OF THE ENGINEER TO	5
	MAKE SUCH A WAIVER PROACTIVELY WHEN PLANS ARE SUBMITTED.	
5.	A MINIMUM OF TWO EXISTING BENCHMARKS SHOULD BE SHOWN ON THE PLANS. IN ADDITION, TWO PERMANENT BENCHMARKS PER SUBDIVISION SHALL BE INSTALLED IN EACH NEW SUBDIVISION	4
	TO INCLUDE DESCRIPTION, LOCATION, AND ELEVATION AND TIE TO CITY STANDARDS.	
6.	CAST BRONZE SURVEY MARKERS SHALL BE PLACED IN CONCRETE IN PERMANENT, ACCESSIBLE	5
	LOCATIONS AT THE TIME OF CONSTRUCTION. THE LOCATIONS OF THE MARKERS SHALL BE INDICATED ON THE CONSTRUCTION PLANS. A MINIMUM OF ONE MARKER SHALL BE PLACED FOR	
	EACH 20 ACRES OF THE PROJECT.	6
7.	PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY, THE DEVELOPER'S CONSULTING	
	ENGINEER, CONTRACTOR, AND ANY OTHER AFFECTED PARTIES. THE CITY SHALL BE NOTIFIED AT	
	LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.	7
8.	THE CONTRACTOR SHALL PROVIDE THE CITY A MINIMUM OF 48 HOURS NOTICE BEFORE BEGINNING	8
01	EACH PHASE OF CONSTRUCTION.	0
9.	BARRICADES, BUILT TO CITY SPECIFICATIONS, SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS	
10	AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB SAFETY.	9
1U.	IF BLASTING IS PLANNED, A BLASTING PERMIT MUST BE SECURED PRIOR TO COMMENCEMENT OF ANY BLASTING.	
11.	ANY EXISTING PAVEMENT, CURBS, AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED	1
	BY THE CONTRACTOR AT HIS EXPENSE BEFORE ACCEPTANCE OF THE SUBDIVISION.	
12.	THE LOCATION OF ANY WATER OR WASTEWATER LINES SHOWN ON THE PLANS MUST BE VERIFIED BY THE PUBLIC WORKS DEPARTMENT.	
13	USE ONE CALL UTILITY SYSTEM: DIAL 1-800-344-8377, 48 HOURS BEFORE YOU DIG.	
	ALL STORM SEWER PIPES TO BE CLASS III RCP UNLESS NOTED OTHERWISE.	1
<u>CIT</u>	OF ANGLETON STANDARD CONSTRUCTION SEQUENCING:	
1.	CALL THE CITY 48 HOURS PRIOR TO BEGINNING ANY WORK AND SCHEDULE A PRECONSTRUCTION	
	MEETING WITH THE CITY AND ALL AFFECTED UTILITY PROVIDERS, THE GENERAL CONTRACTOR, THE DEVELOPER AND THE DEVELOPER'S ENGINEER.	
2.	OBTAIN A DEVELOPMENT PERMIT FROM THE CITY.	
3.	PROVIDE THE CITY WITH EVIDENCE ALL TCEQ LICENSES AND REQUIREMENTS ARE UP TO DATE.	
4.	INSTALL TEMPORARY EROSION CONTROLS AND TREE PROTECTION FENCING PRIOR TO ANY	
5.	CLEARING AND GRUBBING. NOTIFY THE CITY WHEN INSTALLED. ROUGH-CUT ALL REQUIRED OR NECESSARY PONDS. EITHER THE PERMANENT OUTLET STRUCTURE	
J.	OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF ANY	
	EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST	
	CONSIST OF A LOW-LEVEL OUTLET AND AN EMERGENCY OVERFLOW MEETING THE REQUIREMENTS OF THE LDC. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED	
	THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL FINAL RESTORATION IS ACHIEVED.	
6.	DELIVER APPROVED ROUGH-CUT SHEETS TO THE CITY ENGINEER PRIOR TO CLEARING AND GRUBBING.	
7.	ROUGH GRADE STREETS. NO DEVELOPMENT OF EMBANKMENT WILL BE PERMITTED AT THIS TIME.	
8.	INSTALL ALL UTILITIES TO BE LOCATED UNDER THE PROPOSED PAVEMENT OR WITHIN THE ROAD	
	RIGHT-OF-WAY.	
	DELIVER STORM SEWER CUT SHEETS TO THE CITY ENGINEER.	
10.	BEGIN INSTALLATION OF STORM SEWER LINES. UPON COMPLETION, RESTORE AS MUCH DISTURBED AREA AS POSSIBLE, PARTICULARLY CHANNELS AND LARGE OPEN AREAS.	
11.	DELIVER FINAL GRADE CUT SHEETS TO THE CITY ENGINEER.	
	RE-GRADE STREETS TO SUB-GRADE.	
13.	ENSURE THAT UNDERGROUND UTILITY CROSSINGS ARE COMPLETED. LAY 1ST-COURSE BASE	
	MATERIAL ON STREETS.	1
	INSTALL CURB AND GUTTER.	
-	LAY FINAL BASE COURSE ON ALL STREETS.	
-	LAY ASPHALT.	
1/.	COMPLETE FINAL GRADING AND RESTORATION OF DETENTION, SEDIMENTATION / FILTRATION PONDS.	
18.	COMPLETE PERMANENT EROSION CONTROL AND RESTORATION OF SITE VEGETATION.	1
	REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROLS.	
19.	COMPLETE ANY NECESSARY FINAL DRESS UP OF AREAS DISTURBED.	
20.	F ANGLETON SPECIAL NOTES (NOT ALL NOTES APPLY TO ASHLAND SECTIONS 1 & 2):	
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CEQ WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES

- [§290.44(A)(1)].
- ESS [§290.44(A)(2)].
- VATER LINE CROSSINGS OF WASTEWATER MAINS SHALL BE PERPENDICULAR .44(E)(4)(B)].
- ACE [§290.44(A)(4)].
- CONTRACTOR SHALL INSTALL APPROPRIATE AIR RELEASE DEVICES WITH VENT .44(D)(1)].
- .44(F)(1)].
- ORMULAS IN THE NOTES ON THE PLANS.
 - THE HYDROSTATIC LEAKAGE RATE FOR POLYVINYL CHLORIDE (PVC) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C-605 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE;

- POUNDS PER SQUARE INCH (PSI).
- FORMULA IS IN USE;

/HERE:

- L = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,
- D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
- POUNDS PER SQUARE INCH (PSI).
- LLATION METHODS, AND MATERIALS UTILIZED MUST MEET .44(E)(1)-(4).
- UFACTURED SEALANT [§290.44(E)(5)].
- 'ICE LINE [§290.44(E)(7)].
- NFIELDS [§290.44(E)(8)].

ENSURE CONSTRUCTION OF THE SIDEWALKS. IN EITHER CASE, SIDEWALKS ADJACENT TO" COMMON AREAS", PARKWAYS, OR OTHER LOCATIONS ON WHICH NO BUILDING CONSTRUCTION WILL TAKE PLACE, MUST BE CONSTRUCTED PRIOR TO FINAL ACCEPTANCE OF THE SUBDIVISION.

A LICENSE AGREEMENT FOR LANDSCAPING MAINTENANCE AND IRRIGATION IN STREET R.O.W. SHALL BE EXECUTED BY THE DEVELOPER IN PARTY WITH THE CITY PRIOR TO FINAL ACCEPTANCE.

WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE THE CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) S AND REGULATIONS FOR PUBLIC WATER SYSTEMS 30 TEXAS INISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D. WHEN CONFLICTS NOTED WITH LOCAL STANDARDS, THE MORE STRINGENT REQUIREMENT BE APPLIED. AT A MINIMUM, CONSTRUCTION FOR PUBLIC WATER SYSTEMS ALWAYS MEET TCEQ'S "RULES AND REGULATIONS FOR PUBLIC WATER

EWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO RICAN NATIONAL STANDARDS INSTITUTE (ANSI)/NSF INTERNATIONAL DARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY

TIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NSF RNATIONAL SEAL OF APPROVAL (NSF-PW) AND HAVE AN ASTM DESIGN SURE RATING OF AT LEAST 150 PSI OR A STANDARD DIMENSION RATIO OF 26

PE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE /EYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE VY PUBLIC DRINKING WATER SUPPLY [§290.44(A)(3)].

ER TRANSMISSION AND DISTRIBUTION LINES SHALL BE INSTALLED IN DRDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. HOWEVER, THE TOP HE WATER LINE MUST BE LOCATED BELOW THE FROST LINE AND IN NO CASE THE TOP OF THE WATER LINE BE LESS THAN 24 INCHES BELOW GROUND

MAXIMUM ALLOWABLE LEAD CONTENT OF PIPES, PIPE FITTINGS, PLUMBING NGS, AND FIXTURES IS 0.25 PERCENT [§290.44(B)].

INGS TO THE ATMOSPHERE COVERED WITH 16-MESH OR FINER, CORROSION TANT SCREENING MATERIAL OR AN ACCEPTABLE EQUIVALENT

CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE DED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION

WATERLINES ARE LAID UNDER ANY FLOWING OR INTERMITTENT STREAM EMI-PERMANENT BODY OF WATER THE WATERLINE SHALL BE INSTALLED IN A RATE WATERTIGHT PIPE ENCASEMENT. VALVES MUST BE PROVIDED ON EACH OF THE CROSSING WITH FACILITIES TO ALLOW THE UNDERWATER PORTION HE SYSTEM TO BE ISOLATED AND TESTED [§290.44(F)(2)].

SUANT TO 30 TAC §290.44(A)(5), THE HYDROSTATIC LEAKAGE RATE SHALL NOT EED THE AMOUNT ALLOWED OR RECOMMENDED BY THE MOST CURRENT VA FORMULAS FOR PVC PIPE, CAST IRON AND DUCTILE IRON PIPE. INCLUDE

Q = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,

L = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,

D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND

P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN

THE HYDROSTATIC LEAKAGE RATE FOR DUCTILE IRON (DI) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION

(AWWA) C-600 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT

S = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,

• P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN

CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE IN ALL CTIONS OF NINE FEET BETWEEN THE PROPOSED WATERLINE AND TEWATER COLLECTION FACILITIES INCLUDING MANHOLES. IF THIS DISTANCE NOT BE MAINTAINED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ECT ENGINEER FOR FURTHER DIRECTION. SEPARATION DISTANCES,

EPARATION DISTANCE FROM A POTABLE WATERLINE TO A WASTEWATER N OR LATERAL MANHOLE OR CLEANOUT SHALL BE A MINIMUM OF NINE FEET. RE THE NINE-FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE ABLE WATERLINE SHALL BE ENCASED IN A JOINT OF AT LEAST 150 PSI SURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER I THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE PORTED AT FIVE-FOOT INTERVALS WITH SPACERS OR BE FILLED TO THE NGLINE WITH WASHED SAND. THE ENCASEMENT PIPE SHALL BE CENTERED ON CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR

IYDRANTS SHALL NOT BE INSTALLED WITHIN NINE FEET VERTICALLY OR ZONTALLY OF ANY WASTEWATER LINE, WASTEWATER LATERAL, OR TEWATER SERVICE LINE REGARDLESS OF CONSTRUCTION [§290.44(E)(6)]. ION MAINS TO PUMPING EQUIPMENT SHALL NOT CROSS WASTEWATER IS, WASTEWATER LATERALS, OR WASTEWATER SERVICE LINES. RAW WATER PLY LINES SHALL NOT BE INSTALLED WITHIN FIVE FEET OF ANY TILE OR CRETE WASTEWATER MAIN, WASTEWATER LATERAL, OR WASTEWATER

ERLINES SHALL NOT BE INSTALLED CLOSER THAN TEN FEET TO SEPTIC TANK

CONTRACTOR SHALL DISINFECT THE NEW WATERLINES IN ACCORDANCE WITH VA STANDARD C-651-14 OR MOST RECENT, THEN FLUSH AND SAMPLE THE S BEFORE BEING PLACED INTO SERVICE. SAMPLES SHALL BE COLLECTED FOR OBIOLOGICAL ANALYSIS TO CHECK THE EFFECTIVENESS OF THE DISINFECTION CEDURE WHICH SHALL BE REPEATED IF CONTAMINATION PERSISTS. A MUM OF ONE SAMPLE FOR EACH 1,000 FEET OF COMPLETED WATERLINE BE REQUIRED OR AT THE NEXT AVAILABLE SAMPLING POINT BEYOND 1,000 AS DESIGNATED BY THE DESIGN ENGINEER [§290.44(F)(3)]

ILORINATION OF DISINFECTING WATER SHALL BE IN STRICT ACCORDANCE I CURRENT AWWA STANDARD C655-09 OR MOST RECENT.

TEXAS COMMISSION OF ENVIRONMENTAL QUALITY ORGANIZED SEWAGE COLLECTION SYSTEM GENERAL CONSTRUCTION NOTES

1. THIS ORGANIZED SEWAGE COLLECTION SYSTEM (SCS) MUST BE CONSTRUCTED IN ACCORDANCE WITH 30 1. TEXAS ADMINISTRATIVE CODE (TAC) §213.5(C), THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY'S (TCEQ) EDWARDS AQUIFER RULES AND ANY LOCAL GOVERNMENT STANDARD SPECIFICATIONS.

2. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE PRESIDING TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY REGULATED ACTIVITIES. THIS NOTICE MUST INCLUDE: - THE NAME OF THE APPROVED PROJECT; - THE ACTIVITY START DATE; AND

- THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.

- 3. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- 4. SEWER LINES LOCATED WITHIN OR CROSSING THE 5-YEAR FLOODPLAIN OF A DRAINAGE WAY WILL BE PROTECTED FROM INUNDATION AND STREAM VELOCITIES WHICH COULD CAUSE EROSION AND SCOURING OF BACKFILL. THE TRENCH MUST BE CAPPED WITH CONCRETE TO PREVENT SCOURING OF BACKFILL, OR THE SEWER LINES MUST BE ENCASED IN CONCRETE. ALL CONCRETE SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES.
- 5. WHERE WATER LINES AND NEW SEWER LINE ARE INSTALLED WITH A SEPARATION DISTANCE CLOSER THAN NINE FEET (I.E., WATER LINES CROSSING WASTEWATER LINES, WATER LINES PARALLELING WASTEWATER LINES, OR WATER LINES NEXT TO MANHOLES) THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30 TAC §217.53(D) (PIPE DESIGN) AND 30 TAC §290.44(E) (WATER DISTRIBUTION).
- 6. TRENCHING, BEDDING AND BACKFILL MUST CONFORM WITH 30 TAC §217.54. THE BEDDING AND BACKFILL FOR FLEXIBLE PIPE MUST COMPLY WITH THE STANDARDS OF ASTM D-2321, CLASSES IA, IB, II OR III. RIGID PIPE BEDDING MUST COMPLY WITH THE REQUIREMENTS OF ASTM C 12 (ANSI A 106.2) CLASSES A, B OR C.
- 7. SEWER LINES MUST BE TESTED FROM MANHOLE TO MANHOLE. WHEN A NEW SEWER LINE IS CONNECTED TO AN EXISTING STUB OR CLEAN-OUT, IT MUST BE TESTED FROM EXISTING MANHOLE TO NEW MANHOLE. IF A STUB OR CLEAN-OUT IS USED AT THE END OF THE PROPOSED SEWER LINE, NO PRIVATE SERVICE ATTACHMENTS MAY BE CONNECTED BETWEEN THE LAST MANHOLE AND THE CLEANOUT UNLESS IT CAN BE CERTIFIED AS CONFORMING WITH THE PROVISIONS OF 30 TAC §213.5(C)(3)(E).
- 8. ALL SEWER LINES MUST BE TESTED IN ACCORDANCE WITH 30 TAC §217.57.
- ALL MANHOLES MUST BE TESTED TO MEET OR EXCEED THE REQUIREMENTS OF 30 TAC §217.58.

UTILITY CONSTRUCTION NOTES:

- 1. CONSTRUCTION OF WATER, SANITARY SEWER, AND STORM DRAINAGE FACILITIES SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE CITY OF ANGLETON STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED IN THE PLANS.
- WHEN TRENCH CONDITION WARRANTS THE USE OF DEWATERING SYSTEMS, THEIR USE SHALL BE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL REMOVE ALL MUD, DIRT AND DEBRIS DEPOSITED OR DROPPED ON EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY DAILY. MATERIAL THAT IS HAZARDOUS TO TRAFFIC SHALL BE REMOVED IMMEDIATELY.
- 4. CONTRACTOR SHALL PROTECT ALL TREES ADJACENT TO WORK AREA. NO TREES SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNFR.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIAL AND EQUIPMENT STORED ON THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES, DURING AND AFTER WORKING HOURS, UNTIL PROJECT ACCEPTANCE.
- 6. THE CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION, AS MAY BE REQUIRED BY O.S.H.A., FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES.
- 7. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE EXISTING PUBLIC OR PRIVATE UTILITY LINES. INCLUDING, BUT NOT LIMITED TO, WATER LINES, WASTEWATER COLLECTION SYSTEMS, STORM SEWERS, BACKSLOPE INTERCEPTORS, IRRIGATION LINES, ELECTRICAL LINES, AND MATERIAL AND PROPERTY DAMAGES DURING CONSTRUCTION. ALL DAMAGES, RELOCATION, OR REPLACEMENT OF EXISTING UTILITIES SHALL BE REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS, DETAILS, AND REQUIREMENTS OF THE UTILITY'S OWNER.
- 8. THE CONTRACTOR SHALL RETURN ALL EXISTING PAVING AND DRIVEWAYS TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER UNLESS OTHERWISE NOTED OR SPECIFICALLY CALLED OUT AS A PAY ITEM.

- 2. ALL WATER MAIN PIPING SHALL HAVE A MINIMUM COVER OF FOUR (4) FEET BELOW FINISHED GROUND UNLESS OTHERWISE NOTED.
- 3. ALL PROPOSED 4-INCH TO 12-INCH WATER MAINS SHALL BE POLYVINYL CHLORIDE PIPE (PVC) C900, DR 18.
- 4. ALL WATER MAIN PIPE SHALL BE BANK SAND BEDDED AND BACKFILLED.
- 5. ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED IN AN APPROVED MANNER IN ACCORDANCE WITH CITY OF ANGLETON STANDARD SPECIFICATIONS.
- 6. MAINTAIN 12-INCH MINIMUM VERTICAL CLEARANCE BETWEEN ALL STORM SEWERS AND CULVERTS UNLESS OTHERWISE NOTED.
- 7. SANITARY FACILITY CLEARANCES TO POTABLE WATER FACILITIES SHALL FOLLOW THE LATEST RULES AND REGULATIONS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
- ALL TEES, ELBOWS, BENDS, AND PLUGS SHALL INCLUDE RESTRAINT OF FITTINGS. RESTRAINT MAY BE BY MEANS OF THRUST BLOCKS OR RESTRAINED JOINT PIPE (OF APPROVED MANUFACTURER). IF RESTRAINED JOINT PIPE IS USED, ALL PIPES LESS THAN 12-INCHES (12") IN DIAMETER SHALL INCLUDE A MINIMUM OF TWO (2) JOINTS OF RESTRAINT ON EACH SIDE OF THE FITTING AND ALL PIPES EQUAL TO OR GREATER THAN 16-INCHES (16") IN DIAMETER SHALL INCLUDE A MINIMUM OF THREE (3) JOINTS OF RESTRAINT ON EACH SIDE OF THE FITTING. WATERLINE FITTINGS SHALL BE CAST OR DUCTILE IRON UNLESS OTHERWISE NOTED. ALL PIPE FITTINGS SHALL BE MECHANICAL JOINTS.

- BACKFILLED.
- 4. ALL SANITARY SEWER MAINS & MANHOLES SHALL BE TESTED IN AN APPROVED MANNER IN ACCORDANCE WITH CITY OF ANGLETON STANDARD SPECIFICATIONS.
- 6. SANITARY FACILITY CLEARANCES TO POTABLE WATER FACILITIES SHALL FOLLOW THE LATEST RULES AND REGULATIONS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
- 7. SANITARY SEWER MANHOLE COVERS SHALL BE STANDARD CITY OF ANGLETON, UNLESS OTHERWISE NOTED.
- 8. ALL SANITARY MANHOLES WITHIN THE 100-YEAR FLOOD PLAIN (DESIGNATED) SHALL HAVE THE TOP SET AT LEAST TWELVE (12) INCHES ABOVE THE BASE FLOOD ELEVATION OR SEALED AND VENTED.
- 9. SANITARY SEWER MANHOLES SHALL BE PRECAST OR CAST-IN-PLACE IN ACCORDANCE WITH CITY OF SUGAR LAND SPECIFICATIONS.
- THE MANHOLE.

WATER MAIN CONSTRUCTION NOTES

1. ALL WATER MAIN PIPE SHALL BE BLUE AND INCLUDE TRACER WIRE IN THE SAME TRENCH AND ABOVE THE WATER MAIN AND IN GATE VALVES.

- SANITARY SEWER CONSTRUCTION NOTES:
- 1. ALL SANITARY SEWER MAIN PIPE SHALL BE GREEN.
- 2. ALL PROPOSED 4-INCH TO 15-INCH SANITARY SEWER MAINS SHALL BE POLYVINYL CHLORIDE PIPE (PVC) SDR 26.
- 3. ALL SANITARY SEWER MAIN PIPE SHALL BE BANK SAND BEDDED AND
- 5. MAINTAIN 24-INCH MINIMUM CLEARANCE BETWEEN ALL STORM SEWERS AND CULVERTS UNLESS OTHERWISE NOTED.

10. MANHOLE RIMS ARE TO BE SET AT THE ELEVATIONS SHOWN ON TH PLANS INITIALLY. AFTER SITE RESTORATION IS COMPLETED, RIMS ARE TO BE ADJUSTED TO THREE (3) TO SIX (6) INCHES ABOVE FINAL GRADE AND BACK-DRESSED WITH DIRT TO PROVIDE DRAINAGE AWAY FROM

- GENERAL CONSTRUCTION NOTES
- 1. PRIOR TO BIDDING THE PROJECT, THE CONTRACTOR SHALL INSPECT THE SITE AND SATISFY ITSELF THAT ABOVE AND BELOW GROUND CONDITIONS OF THE SITE ARE ACCEPTABLE FOR CONSTRUCTION. CONTRACTOR SHALL NOTE ANY VISIBLE CONFLICTS NOT SHOWN IN THE DRAWINGS AND BRING TO THE ATTENTION OF THE ENGINEER PRIOR TO BIDDING THE PROJECT. SHOULD A CONSTRUCTION CONFLICT OCCUR DUE TO A VISIBLE CONFLICT APPARENT AT THE TIME OF BIDDING, ALL CONSTRUCTION AND ENGINEERING COSTS ASSOCIATED WITH THE CHANGE SHALL BE BORNE BY THE CONTRACTOR.
- THIS PROJECT IS WITHIN THE CITY OF ANGLETON E.T.J. AND BRAZORIA COUNTY, TEXAS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE CITY, COUNTY, STATE, AND FEDERAL PERMITS. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY REGULATION OF BRAZORIA COUNTY, TEXAS FOR FLOODPLAIN MANAGEMENT PRIOR TO STARTING CONSTRUCTION.
- 4. THE APPROXIMATE LOCATION OF EXISTING UTILITIES ARE GIVEN FOR REFERENCE ONLY. BEFORE COMMENCING THE WORK ON THIS CONTRACT, THE CONTRACTOR SHALL VERIFY BY FIELD INVESTIGATION THE ACTUAL LOCATIONS OF ALL UTILITY FACILITIES WITHIN AND ADJACENT TO THE LIMITS OF THE WORK THAT MAY BE AFFECTED BY THE WORK. CONFLICTS WHICH RESULT DUE TO NEGLIGENCE BY THE CONTRACTOR TO LOCATE, HORIZONTALLY AND VERTICALLY, EXISTING UTILITIES WHICH ARE SHOWN ON THE CONSTRUCTION DRAWINGS, OR WHICH THE CONTRACTOR HAS BEEN GIVEN NOTICE OR HAS KNOWLEDGE, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF REMEDIAL WORK, REMOVAL OF PORTIONS OF THE WORK OR EXTENSIVE DESIGN CHANGES OCCASIONED BY THE FAILURE OF THE CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UTILITIES AS DESCRIBED ABOVE SHALL BE BORNE BY THE CONTRACTOR.
- CONTRACTOR IS TO CONTACT THE TEXAS811 AT 811 OR 1-800-344-8347 FOR LOCATION OF EXISTING FACILITIES THAT MAY NOT BE SHOWN ON THE PLANS AT LEAST 72 HOURS PRIOR BUT NOT MORE THAN 14 WORKING DAYS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ALL EXISTING FACILITIES OR ANY OFF-SITE AREAS AFFECTED BY THIS CONSTRUCTION PROJECT TO EXISTING OR BETTER CONDITION, UNLESS OTHERWISE NOTED, AT NO ADDITIONAL COST TO THE OWNER.
- 7. CONTRACTOR SHALL COMPLY WITH O.S.H.A. REGULATIONS AND TEXAS STATE LAW CONCERNING TRENCH SAFETY SYSTEMS.
- 8. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES. ACCESS SHALL BE MAINTAINED DURING ALL WEATHER CONDITIONS.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE "NATIONAL POLLUTANTS DISCHARGE ELIMINATION SYSTEM" (NPDES) REQUIREMENTS, AND ALL ANGLETON DRAINAGE DISTRICT REQUIREMENTS. BEST MANAGEMENT PRACTICES SHALL BE FOLLOWED FOR SWPPP.
- 10. SHOULD SOFT UNSTABLE AREAS APPEAR DURING THE COURSE OF GRADING, THE CONTRACTOR SHALL REMOVE UNSTABLE MATERIAL AS DIRECTED BY THE ENGINEER THE CONTRACTOR SHALL REPLACE THIS WITH A SUITABLE MATERIAL COMPACTED AS REQUIRED PER SPECIFICATIONS. (LIMITED TO 18" AT NO COST TO THE OWNER.)
- 11. ALL WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
- PROVIDE ISOLATION JOINTS BETWEEN ALL PROPOSED SIDEWALKS AND ALL SLABS. STRUCTURES, AND PAVEMENTS. ALSO PROVIDE ISOLATION JOINTS WHERE PIPES PENETRATE CONCRETE SLABS OR PAVEMENT. ISOLATION JOINTS SHALL CONSIST OF ASPHALT IMPREGNATED FIBERBOARD AND JOINT SEALANT MATERIAL.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RED LINE RECORD DRAWINGS AT THE COMPLETION OF THIS PROJECT, PRIOR TO FINAL PAYMENT.
- 14. CONTRACTOR TO FOLLOW CONSTRUCTION DETAILS IF DRAWINGS DEVIATE FROM CITY OF SUGARLAND STANDARDS.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SITE DRAINAGE AT ALL TIMES AT NO ADDITIONAL COST TO THE OWNER WHETHER BY GRADING OR PUMPING.
- 16. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES TO THE EXISTING PUBLIC OR PRIVATE LINES INCLUDING BUT NOT LIMITED TO WATER LINES, WASTEWATER COLLECTION SYSTEM AND STORM SEWERS DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH CITY OF SUGARLAND STANDARDS WITH NO COST TO THE OWNER OR PUBLIC.

NO. DATE	RE	EVISIONS		APP.
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	LINE TAB	LE		LINE TAB	LE		LINE TAB	LE
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DIST
L1	S75*57'23"E	214.38'	L23	N51 ° 28'17"W	213.25'	L45	N80 ° 46'51"E	115
L2	S14 ' 02'37"W	26.43'	L24	N01 * 53'19"W	276.69'	L46	N73 * 56'02"E	114
L3	S75*57'23"E	131.00'	L25	S59*02'37"W	19.64'	L47	N29 * 31'51"E	15.
L4	S76*48'30"E	59.87'	L26	N27*06'16"E	18.28'	L48	N15 * 32'47"W	81.
L5	S79*40'46"E	59.08'	L27	S12 * 19'49"E	12.23'	L49	N29*26'01"W	144
L6	S83*34'43"E	117.91'	L28	S63"19'12"W	25.26'	L50	S27 * 52'45"W	65.
L7	N89°09'01"E	117.69'	L29	N14 ° 02'37"E	325.78'	L51	N01*24'46"W	174
L8	N84 ° 32'11"E	117.51'	L30	N07°21'55"E	165.77'	L52	N06*38'41"W	82.
L9	N81*08'49"E	60.84'	L31	N55*18'02"W	197.79'	L53	N01*53'19"W	109
L10	N82*25'29"E	115.20'	L32	S51*28'17"E	60.00'	L54	N46*13'37"W	14.
L11	N67*42'34"E	47.25'	L33	N45 ' 20'22"W	60.35'		•	-
L12	S22*17'26"E	18.96'	L34	S50*05'32"E	71.93'			
L13	S36*32'41"W	142.60'	L35	S79 * 31'01"E	99.89'			
L14	N49 * 11'44"W	142.96'	L36	N72*23'56"E	125.74'			
L15	N01*53'19"W	311.03'	L37	S23*32'13"W	173.77'			
L16	N14*45'48"W	51.62'	L38	N15*55'27"E	77.08'			
L17	N71 ° 59'47"W	560.10'	L39	N09"18'34"E	71.66'			
L18	N14 ° 02'37"E	324.05'	L40	N02 ° 41'41"E	62.57'			
L19	N14°02'37"E	121.43'	L41	N01*31'19"W	72.90'			
L20	N75*57'23"W	157.06'	L42	N04°05'16"W	64.49'			
L21	N84°30'04"E	100.92'	L43	N06 ' 39'12"W	86.77'			
L22	S78*38'33"W	180.00'	L44	N52*56'11"W	13.82'			
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DISTANCE

115.95**'**

114.40'

15.66' 81.38'

144.17'

65.53**'**

174.45'

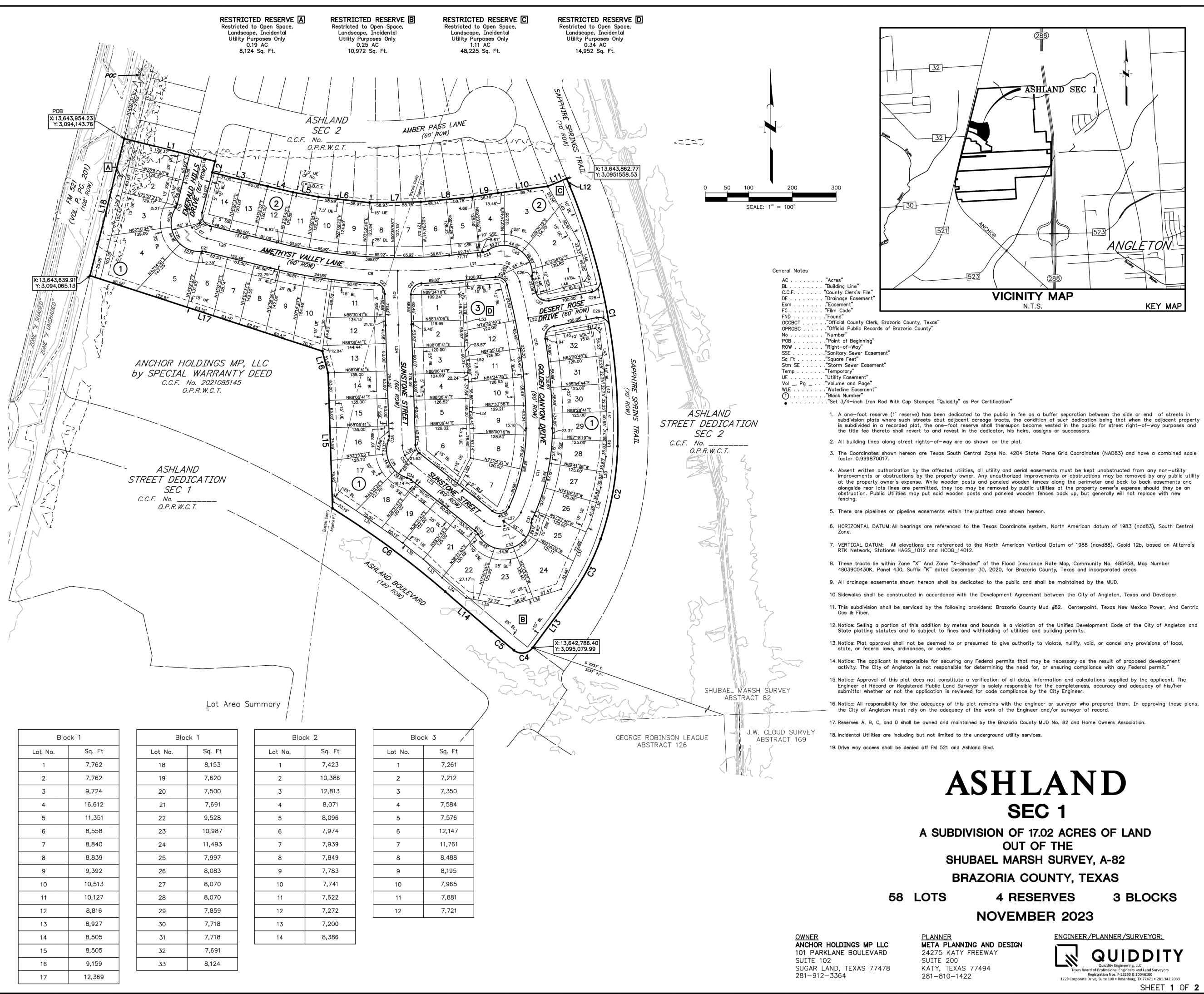
82.45' 109.67'

14.30'

			CURVE	TABLE	·	
CURVE	RADIUS	DELTA ANGLE	ARC LENGTH	CHORD BEARING	CHORD LENGTH	TANGENT
C1	1465.00'	23*53'41"	610.97'	S10°20'36"E	606.55'	309.99'
C2	715.00'	17 ° 23'49"	217.10'	S10*18'10"W	216.27'	109.39'
C3	500.00'	17•32'37"	153.10'	S27*46'22"W	152.50'	77.15'
C4	30.00'	92*14'59"	48.30'	S82*40'10"W	43.25'	31.20'
C5	1940.00'	2*00'36"	68.06'	N50°12'02"W	68.05'	34.03'
C6	2060.00'	8*50'10"	317.69'	N53 ° 36'49"W	317.38'	159.16'
C7	55.00'	90°00'00"	86.39'	S30*57'23"E	77.78'	55.00'
C8	1200.00'	19*32'33"	409.30'	S85*43'39"E	407.32'	206.66'
C9	55.00'	80*19'29"	77.11'	N55°20'11"W	70.95'	46.42'
C10	1285.00'	15"10'15"	340.24'	N07*35'19"W	339.25'	171.12'
C11	465.00'	24*31'56"	199.10'	N12*15'46"E	197.58'	101.10'
C12	55.00'	103 ° 59'59"	99.83'	N76*31'44"E	86.68'	70.40'
C13	55.00'	49*34'58"	47.60'	S26*40'48"E	46.12'	25.40'
C14	3000.00'	2*22'16"	124.15'	S00*42'11"E	124.14'	62.08'
C19	25.00'	19"11'17"	8.37'	N23*38'16"E	8.33'	4.23'
C20	65.00'	128*22'35"	145.64'	S30*57'23"E	117.03'	134.39'
C21	25.00'	19"11'17"	8.37'	N85•33'01"W	8.33'	4.23'
C22	25.00'	86*41'32"	37.83'	N43*52'35"W	34.32'	23.60'
C23	25.00'	88"18'48"	38.53'	S43*35'48"W	34.83'	24.27'
C24	25.00'	28*32'28"	12.45'	N7013'50"E	12.33'	6.36'

			CURVE	TABLE		
CURVE	RADIUS	DELTA ANGLE	ARC LENGTH	CHORD BEARING	CHORD LENGTH	TANGENT
C25	65.00'	127 ° 28'40"	144.62'	N6018'04"W	116.58'	131.74'
C26	25.00'	18 ° 32'43"	8.09'	S05*50'06"E	8.06'	4.08'
C27	25.00'	87*38'52"	38.24'	S57*32'01"E	34.62'	23.99'
C28	25.00'	92 * 11'18"	40.22'	N32*32'54"E	36.02'	25.97'
C29	25.00'	92 * 11'22"	40.23'	N55*15'46"W	36.02'	25.97'
C30	25.00'	87*38'52"	38.24'	S34•49'07"W	34.62'	23.99'
C31	25.00'	20*44'45"	9.05'	S14 * 27'51"W	9.00'	4.58'
C32	65.00'	147 * 11'04"	166.98'	N77*41'00"E	124.71'	220.74'
C33	25.00'	22*44'49"	9.93'	N40°05'53"W	9.86'	5.03'
C34	25.00'	22*44'49"	9.93'	N62*50'41"W	9.86'	5.03'
C35	65.00'	95*04'36"	107.86'	S26*40'48"E	95.90'	71.03'
C36	25.00'	22•44'49"	9.93'	N09*29'06"E	9.86'	5.03'

Street	t Name and Length	
Street Name	Length (Centerline)	Туре
Emerald Hills Drive	164.63 Ft	Local
Amethyst Valley Lane	749.03 Ft	Local
Golden Canyon Drive	627.81 Ft	Local
Sunstone Street	711.60 Ft	Local
Dessert Rose Drive	180.00 Ft	Local



Blo	ck 1
Lot No.	Sq. Ft
1	7,762
2	7,762
3	9,724
4	16,612
5	11,351
6	8,558
7	8,840
8	8,839
9	9,392
10	10,513
11	10,127
12	8,816
13	8,927
14	8,505
15	8,505
16	9,159
17	12,369

Lot No.	Sq.
18	8,15
19	7,62
20	7,50
21	7,69
22	9,52
23	10,98
24	11,49
25	7,99
26	8,08
27	8,07
28	8,07
29	7,85
30	7,71
31	7,71
32	7,69
33	8,12

K: \16759\16759-0010-11 Ashland - Phase 1A - Paving \2 Design Phase \Planning \SF Sec 1 \Ashland Sec 1 - PLAT.dwg May 08,2024 - 1:07pm CKJ

3 OF 30

STATE	OF	TEXAS	

COUNTY	OF	BRAZORIA	§	
0001111	01	DIVIZORIA	3	

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

- §

Notary Public in and for the State of Texas Print Name My commission expires: STATE OF TEXAS \$ COUNTY OF \$ KNOW ALL MEN BY THESE PRESENTS: That L, Steve Jares, do hereby certify that I preppared this plat from an actual and accurate survey of the land and that the corner monuments shown thereon were properly placed under my supervision.
Print Name My commission expires:
Print Name
Print Name
Print Name
Notary Public in and for the State of Texas
Network Dublin in and for the Otels of T
GIVEN UNDER MY HAND AND SEAL OF OFFICE, this day of, 20
person whose name is subscribed to the foregoing instrument and acknowledged to me that they executed the same for the purposes and considerations therein expressed.
BEFORE ME, the undersigned authority, on this day personally appeared, known to me to be the
COUNTY OF §
STATE OF TEXAS
Duly Authorized Agent
Owner
watercourses, drains, easements and public places thereon shown for the purpose and consideration therein expressed.
The owner of land shown on this plat, in person or through a duly authorized agent, dedicates to the use of the public forever all streets, alleys, parks,
COUNTY OF BRAZORIA §
STATE OF TEXAS §
The Association hereby agrees to indemnify and hold harmless the City from any such damages and injuries.
flow of water, and the City of Angleton or Angleton Drainage District shall have the right of ingress and egress for the purpose of inspection and supervision of maintenance work by the Owners to alleviate any public health or safety issues.
The Owners shall keep all Drainage Easements clean and free of debris, silt, and any substance which would result in unsanitary conditions or obstruct the
The City and Angleton Drainage District will not be responsible for the maintenance and operation of easement or for any damage or injury to private property or person that results from the flow of water along said easement or for the control of erosion. but reserves the right to use enforcement powers to ensure that drainage easements are properly functioning in the manner in which they were designed and approved.
Easements and shall relieve the City of Angleton of the responsibility to maintain any Drainage Easement. The fee simple title to the Drainage and Floodway Easement shall always remain in the Owner(s).
"Drainage Easements" shown on the plat are reserved for drainage purposes forever, and the maintenance of the drainage easements shall be provided by all of the owners of lots in the subdivision. All Owner documents shall specify, confirm and bind the Owner(s) to continuously maintain all Drainage
This plat is hereby adopted by the owners (called "Owners") and approved by the City of Angleton, ("City") subject to the following conditions which shall be binding upon the Owners, their heirs, grantees, successors, and assigns:
COUNTY OF BRAZORIA §
STATE OF TEXAS §
patrolling, maintaining, reading meters, and adding to or removing all or parts of their respective systems without the necessity at any time of procuring permission from anyone.
interfere with the construction, maintenance, or efficiency of their respective systems in said easements. The City of Angleton and public utility entities shall at all times have the full right of ingress and egress to or from their respective easements for the purpose of constructing, reconstructing, inspecting,
use by public utilities being subordinate to the public's and City of Angleton's use thereof. The City of Angleton and public utility entities shall have the right to remove and keep removed all or parts of any buildings, fences, trees, shrubs, or other improvements or growths which may in any way endanger or
landscape improvements may be placed in landscape easements, if approved by the City of Angleton. In addition, utility easements may also be used for the mutual use and accommodation of all public utilities desiring to use or using the same unless the easement limits the use to particular utilities, said
purposes. The easements and public use areas, as shown, are dedicated for the public use forever, for the purposes indicated on this plat. No buildings, fences, trees, shrubs, or other improvements or growths shall be constructed or placed upon, over, or across the easements as shown, except that
fences, trees, shrubs, or other improvements or growths shall be constructed or placed upon, over, or across the easements as shown, except that

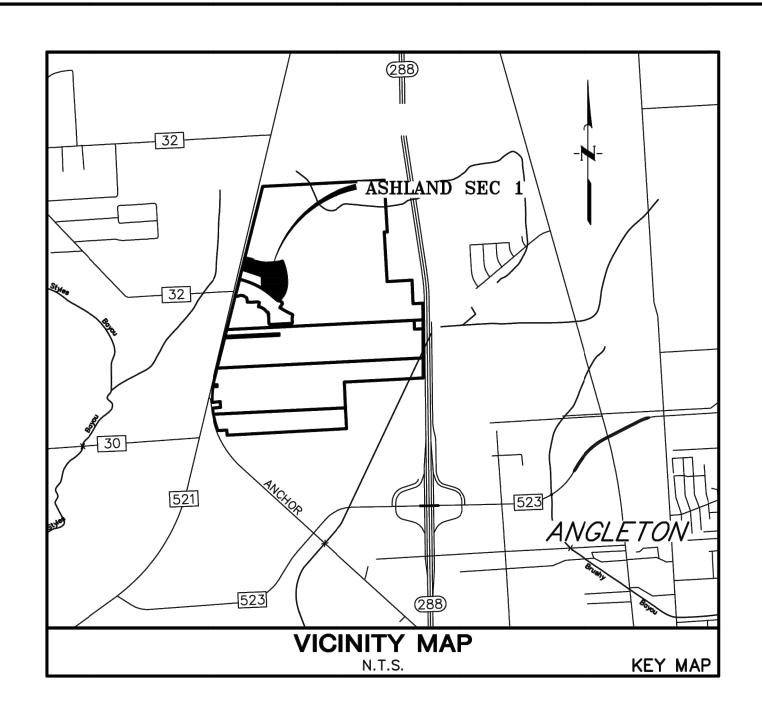
STATE OF TEXAS

COUNTY OF BRAZORIA -8

KNOW ALL MEN BY THESE PRESENTS:

That I, William A.C. McAshan, do hereby certify that proper engineering consideration has been provided in this plat. To the best of my knowledge, this plat conforms to all requirements of the Angleton LDC, except for any variances that were expressly granted by the City Council.

William A.C. McAshan, P.E. Professional Engineer STATE OF TEXAS § COUNTY OF BRAZORIA § A METES & BOUNDS description of a certain 17.02 acre tract of land situated in Shubael Marsh Surveys, Abstract Nos. 81 & 82 in Brazoria County, Texas, being out of a called 469.08 acre tract conveyed to Anchor Holdings MP, LLC by Special Warranty Deed recorded in Clerk's File No. 2021085145 of the Official Public Records of Brazoria County (OPRBC); said 17.02 acre tract being more particularly described as follows with all bearings being based on the Texas Coordinate System of 1983, South Central Zone; COMMENCING at a found concrete monument for the northwest corner of said 469.08 acre tract, common with the southwest corner of a called 2.97 acre tract of land conveyed to James W. Northrup & Deborah Northrup by Warranty Deed with Vendor's Lien recorded in Clerk's File No. OI-008056 of the Official Records of Brazoria County (ORBC), being in the east line of F.M. Highway 521 recorded in Volume P, Page 201; THENCE, South 14°02'37" West, along the east line of said F.M. Highway 521, 2702.30 feet to the POINT OF BEGINNING of the herein described subject tract; THENCE, over and across said 469.08 acre tract the following twenty three (23) courses and distances: I. South 75°57′23″ East, 214.38 feet to a point for corner; 2.South 14°02'37" West, 26.43 feet to a point for corner; 3.South 75°57'23" West, 131.00 feet to a point for corner; 4.South 76°48'30" East, 59.87 feet to a point for corner; 5.South 79°40'46" East, 59.08 feet to a point for corner; 6.South 83°34'43" East, 117.91 feet to a point for corner; 7.North 89°09'01" East, 117.69 feet to a point for corner; 8.North 84°32'II" East, II7.51 feet to a point for corner; 9.North 81°08'49" East, 60.84 feet to a point for corner; IO. North 82°25'29" East, II5.20 feet to a point for corner; II. North 67°42′34" East, 47.25 feet to a point for corner; 12. South 22°17′26″ East, 18.96 feet to a point for corner marking the beginning of a tangent curve to the right; 13. Along the arc of said tangent curve to the right, having a radius of 1465.00 feet, a central angle of 23°53′41″, an arc length of 610.97 feet, and a long chord bearing South 10°20'36" East, with a chord length of 606.55 feet to a point for corner marking the beginning of a compound curve to the right; 14. Along the arc of said compound curve to the right, having a radius of 715.00 feet, a central angle of 17°23'49", an arc length of 217.10 feet, and a long chord bearing South 10°18′10" West, with a chord length of 216.27 feet to a point for corner marking the beginning of a compound curve to the right; 15. Along the arc of said compound curve to the right, having a radius of 500.00 feet, a central angle of 17°32'37", an arc length of 153.10 feet, and a long chord bearing South 27°46′22″ West, with a chord length of 152.50 feet to a point for corner; 16. South 36°32'41" West, 142.60 feet to a point for corner marking the beginning of a tangent curve to the right; 17. Along the arc of said tangent curve to the right, having a radius of 30.00 feet, a central angle of 92°14′59″, an arc length of 48.30 feet, and a long chord bearing South 82°40′10" West, with a chord length of 43.25 feet to a point for corner marking the beginning of a compound curve to the right; 18. Along the arc of said compound curve to the right, having a radius of 1940.00 feet, a central angle of 02°00'36", an arc length of 68.06 feet, and a long chord bearing North 50°12′02" West, with a chord length of 68.05 feet to a point for corner; 19. North 49°11′44" West, 142.96 feet to a point for corner marking the beginning of a tangent curve to the left; 20. Along the arc of said tangent curve to the left, having a radius of 2060.00 feet, a central angle of 08°50′10″, an arc length of 317.69 feet, and a long chord bearing North 53°36′49″ West, with a chord length of 317.38 feet to a point for corner; 21. North OI°53'19" West, 311.02 feet to a point for corner; 22. North 14°45′48″ West, 51.62 feet to a point for corner; 23. North 71°59'47" West, 560.10 feet to a point for corner in the east line of said F.M. Highway 521; THENCE, North 14°02'37" East, 324.05 feet, along the east line of said F.M. Highway 521, to the POINT OF BEGINNING, CONTAINING 17.02 acres of land in Brazoria County, Texas.



APPROVED this __ day of _____, 20__, by the Planning and Zoning Commission, City of Angleton, Texas.

Chairman, Planning and Zoning Commission

City Secretary

APPROVED this __ day of _____, 20__, by the City Council, City of Angleton, Texas.

_____ Mayor

City Secretary

STATE OF TEXAS § COUNTY OF BRAZORIA This instrument was acknowledged before me on the __ day of _____, 20__, by

Name

Title On behalf of the Notary Public, State of Texas

ASHLAND SEC 1

A SUBDIVISION OF 17.02 ACRES OF LAND OUT OF THE SHUBAEL MARSH SURVEY, A-82 BRAZORIA COUNTY, TEXAS

58 LOTS

4 RESERVES NOVEMBER 2023

3 BLOCKS

4 OF 30

SHEET 2 OF 2

<u>OWNER</u> ANCHOR HOLDINGS MP LLC 101 PARKLANE BOULEVARD SUITE 102 SUGAR LAND, TEXAS 77478 281-912-3364

<u>PLANNER</u> META PLANNING AND DESIGN 24275 KATY FREEWAY SUITE 200 KATY, TEXAS 77494 281-810-1422

ENGINEER/PLANNER/SURVEYOR: QUIDDI _///

Quiddity Engineering, LLC

exas Board of Professional Engineers and Land Surveyor

Registration Nos. F-23290 & 10046100 1229 Corporate Drive, Suite 100 • Rosenberg, TX 77471 • 281.342.2033

RESTRICTED RESERVE Restricted to Open Space, Landscape, Incidental Utility Purposes Only 0.06 AC 2,681 Sq. Ft.

RESTRICTED RESERVE B Restricted to Open Space, Landscape, Incidental Utility Purposes Only 0.50 AC 21,900 Sq. Ft.

RESTRICTED RESERVE Restricted to Open Space, Landscape, Incidental Utility Purposes Only 0.56 AC 24,231 Sq. Ft.

LINE TABLE		
LINE	BEARING	DISTANCE
L1	S75 * 57'23"E	368.86'
L2	S78 ° 43'03"E	146.99'
L3	S86'42'50"E	172.57'
L4	S22'17'26"E	283.14'
L5	S67*42'34"W	47.25'
L6	S82*25'29"W	115.20'
L7	S81'08'49"W	60.84'
L8	S84'32'11"W	117.51'
L9	S89*09'01"W	117.69'
L10	N83 ° 34'43"W	117.91'
L11	N79 * 40'46"W	59.08'
L12	N76 * 48'30"W	59.87'
L13	N75 ° 57'23"W	131.00'
L14	N14°02'37"E	26.43'
L15	N75 * 57'23"W	214.38'
L16	N14°02'37"E	742.14'
L17	N08'45'59"E	103.09'
L18	N75 * 57'23"W	160.14'
L19	N14°02'37"E	532.14'
L20	N75 * 57'23"W	156.12'

	LINE TAB	LE
LINE	BEARING	DISTANCE
L21	N62°27'43"E	116.15'
L22	N14*02'40"E	665.05'
L23	N14°02'37"E	117.00'
L24	N09*00'30"E	161.10'
L25	N75 * 57'23"W	111.00'
L26	N78 ' 38'49"W	98.29'
L27	N86*03'39"W	97.99'
L28	N86*26'54"E	97.99'
L29	N54*54'45"E	108.40'
L30	N51*53'32"E	55.09'
L31	N00°20'56"E	140.43'
L32	N83*34'13"W	53.11'
L33	N13"17'21"W	134.37'
L34	N33°06'22"E	25.13'
L35	N70*53'11"W	25.00'
L36	N21'03'03"W	144.78 '
L37	N00*14'08"W	25.00'
L38	N30*57'23"W	18.89'
L39	S16 • 37'52"E	7.50'

CURVE TABLE						
CURVE	RADIUS	DELTA ANGLE	ARC LENGTH	CHORD BEARING	CHORD LENGTH	TANGENT
C1	815.00'	30*12'04"	429.59'	S07 * 11'24''E	424.64'	219.91'
C2	1200.00'	15 ° 36'22"	326.85'	S83*45'33"E	325.84'	164.44'
C3	50.00'	90 . 00,00 <u>.</u>	78.54'	S59*02'37"W	70.71'	50.00'
C4	900.00'	30*40'30"	481.84'	N88*42'23"E	476.11'	246.85'
C5	25.00'	89*05'41"	38.87'	N45*07'46"E	35.07'	24.61'
C6	25.00'	83 ' 38'19"	36.49'	N48*45'15"W	33.34'	22.37'
C7	25.00'	120 ' 34'48"	52.61'	S35 ° 04'03"W	43.43'	43.81'
C8	65.00'	247 • 58'39"	281.32'	S81*14'01"E	107.79'	96.41'
C9	25.00'	120 ' 34'48"	52.61'	N17 * 32'06"W	43.43'	43.81'
C10	25.00'	22*44`49"	9.93'	S64 ° 34'58"E	9.86'	5.03'
C11	65.00'	135*29'37"	153.71'	S59*02'37"W	120.32'	158.86'
C12	25.00'	22*44'49"	9.93'	N02*40'13"E	9.86'	5.03'
C13	25.00'	90 ° 00'00"	39.27'	S59*02'37"W	35.36'	25.00'
C14	25.00'	90 ° 00'00"	39.27'	S30*57'23"E	35.36'	25.00'
C15	25.00'	44*02'28"	19.22'	N80*35'27"W	18.75'	10.11'
C16	65.00'	283*43'03"	321.87'	N20*25'44"W	80.29'	51.04'
C17	25.00'	60*42'06"	26.49'	N48'03'47"E	25.26'	14.64'

Bloo	ck 1
Lot No.	Sq. Ft
1	6,571
2	6,868
3	6,811
4	6,808
5	6,859
6	6,676
7	6,500
8	6,500
9	6,404
10	9,207
11	11,262
12	9,395
13	6,357
14	6,469
15	6,469
16	6,469
17	6,469
18	6,469
19	6,469
20	6,469
21	6,469
22	6,469
23	6,469

		-
Lot	Area	Summary

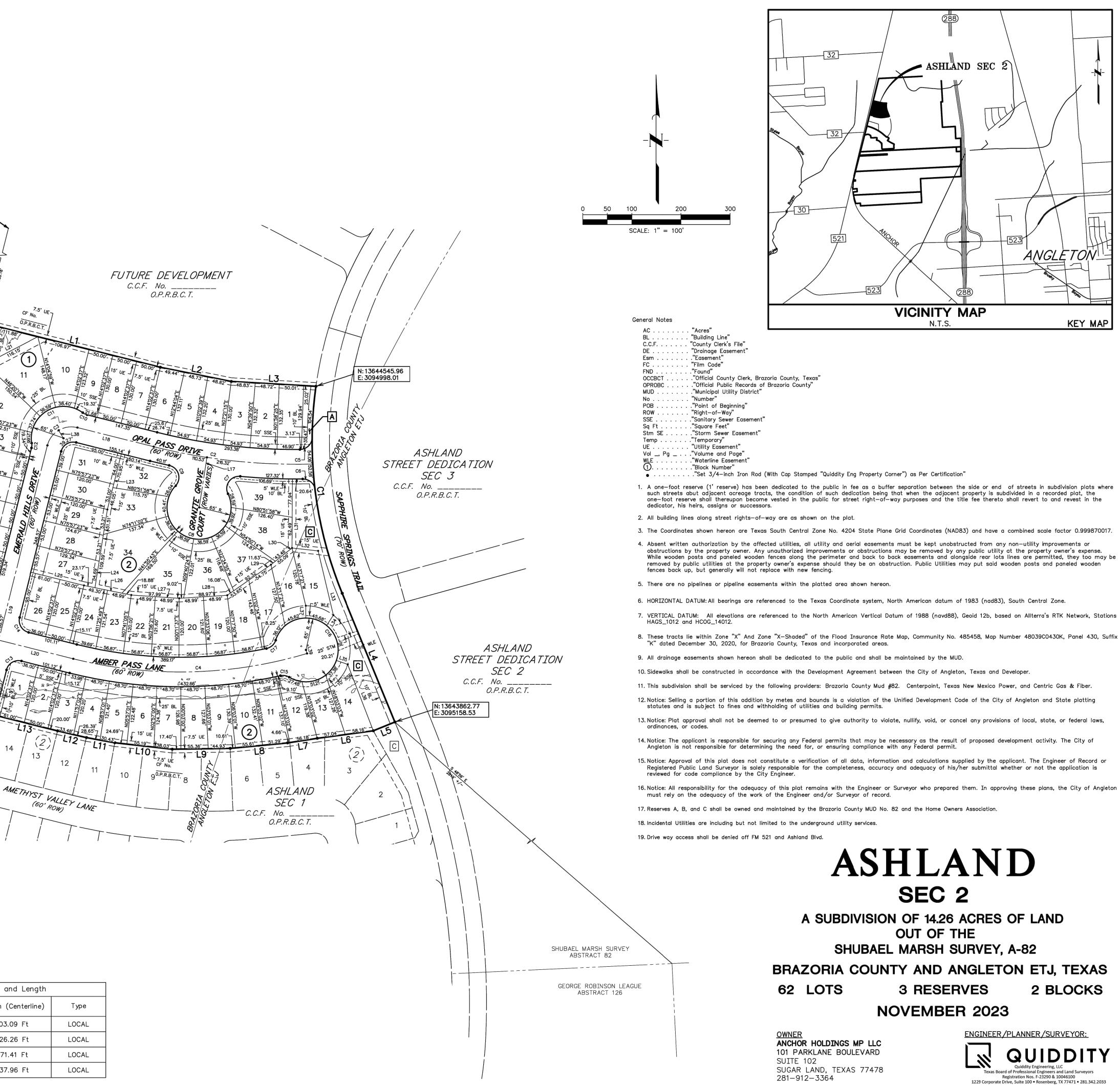
	Summury	
Block 2		
Lot No.	Sq. Ft	
1	7,186	
2	6,000	
3	6,811	
4	6,270	
5	6,340	
6	6,396	
7	6,562	
8	6,611	
9	6,724	
10	6,837	
11	7,031	
12	6,888	
13	6,380	
14	7,627	
15	7,505	
16	6,613	
17	7,454	
18	6,942	
19	6,406	
20	6,406	
21	6,406	
22	6,406	
23	6,405	

Block 2		
Lot No.	Sq. Ft	
23	6,405	
24	6296	
25	6,000	
26	7,186	
27	7,310	
28	6,731	
29	6,484	
30	6,360	
31	7,546	
32	7,954	
33	8,257	
34	14,552	
35	10,712	
36	8,351	
37	8,145	
38	9,241	
39	9,017	

N: 13643954.2 E: 3094143.76

POB	
N: 13644674.10 E: 3094323.82	CF 0.P.
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	N14.DC
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3 JUNO	/
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Street	t Name and
Street Name	Length (Ce
Granite Grove Court	103.09
Opal Pass Drive	526.26
Emerald Hills Drive	571.41
Amber Pass Lane	637.96



SHEET 1 OF 2

5 OF 30

STATE	OF	TEXAS	

COUNTY OF BRAZORIA §

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

THAT acting herein by and through its duly authorized officers, does hereby adopt this plat designating the hereinabove described property as Ashland Sec 2, a subdivision in the jurisdiction of the City of Angleton, Texas, and does hereby dedicate, in fee simple, to the public use forever, the streets, alleys and public parkland shown thereon. The streets, alleys and parkland are dedicated for street purposes. The easements and public use areas, as shown, are dedicated for the public use forever, for the purposes indicated on this plat. No buildings, fences, trees, shrubs, or other improvements or growths shall be constructed or placed upon, over, or across the easements as shown, except that landscape improvements may be placed in landscape easements, if approved by the City of Angleton. In addition, utility easements may also be used for the mutual use and accommodation of all public utilities desiring to use or using the same unless the easement limits the use to particular utilities, said use by public utilities being subordinate to the public's and City of Angleton's use thereof. The City of Angleton and public utility entities shall have the right to remove and keep removed all or parts of any buildings, fences, trees, shrubs, or other improvements or growths which may in any way endanger or interfere with the construction, maintenance, or efficiency of their respective easements for the purpose of constructing, reconstructing, inspecting, patrolling, maintaining, reading meters, and adding to or removing all or parts of their respective systems without the necessity at any time of procuring permission from anyone.
STATE OF TEXAS § COUNTY OF BRAZORIA §
This plat is hereby adopted by the owners (called "Owners") and approved by the City of Angleton, ("City") subject to the following conditions which shall be
binding upon the Owners, their heirs, grantees, successors, and assigns: "Drainage Easements" shown on the plat are reserved for drainage purposes forever, and the maintenance of the drainage easements shall be provided by all of the owners of lots in the subdivision. All Owner documents shall specify, confirm and bind the Owner(s) to continuously maintain all Drainage
Easements and shall relieve the City of Angleton of the responsibility to maintain any Drainage Easement. The fee simple title to the Drainage and Floodway Easement shall always remain in the Owner(s).
The City and Angleton Drainage District will not be responsible for the maintenance and operation of easement or for any damage or injury to private property or person that results from the flow of water along said easement or for the control of erosion. but reserves the right to use enforcement powers to ensure that drainage easements are properly functioning in the manner in which they were designed and approved.
The Owners shall keep all Drainage Easements clean and free of debris, silt, and any substance which would result in unsanitary conditions or obstruct the flow of water, and the City of Angleton or Angleton Drainage District shall have the right of ingress and egress for the purpose of inspection and supervision of maintenance work by the Owners to alleviate any public health or safety issues.
The Association hereby agrees to indemnify and hold harmless the City from any such damages and injuries.
STATE OF TEXAS §
COUNTY OF BRAZORIA § The owner of land shown on this plat, in person or through a duly authorized agent, dedicates to the use of the public forever all streets, alleys, parks,
watercourses, drains, easements and public places thereon shown for the purpose and consideration therein expressed.
 Owner
Duly Authorized Agent
STATE OF TEXAS § COUNTY OF §
BEFORE ME, the undersigned authority, on this day personally appeared,,,, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that they executed the same for the purposes and considerations therein expressed.
GIVEN UNDER MY HAND AND SEAL OF OFFICE, this day of, 20
Notary Public in and for the State of Texas
Print Name
My commission expires:
STATE OF TEXAS §
COUNTY OF §
KNOW ALL MEN BY THESE PRESENTS:
That I, Steve Jares, do hereby certify that I prepared this plat from an actual and accurate survey of the land and that the corner monuments shown thereon were properly placed under my supervision.
Steve Jares Registered Professional Land Surveyor
Texas Registration No 5317

STATE OF TEXAS §

COUNTY OF BRAZORIA §

KNOW ALL MEN BY THESE PRESENTS:

That I, William A.C. McAshan, do hereby certify that proper engineering consideration has been provided in this plat. To the best of my knowledge, this plat conforms to all requirements of the Angleton LDC, except for any variances that were expressly granted by the City Council.

William A.C. McAshan, P.E. Professional Engineer

STATE OF TEXAS §

COUNTY OF BRAZORIA §

A METES & BOUNDS description of a certain 14.26 acre tract of land situated in Shubael Marsh Surveys, Abstract Nos. 81 & 82 in Brazoria County, Texas, being out of a called 469.08 acre tract conveyed to Anchor Holdings MP, LLC by Special Warranty Deed recorded in Clerk's File No. 2021085145 of the Official Public Records of Brazoria County (OPRBC); said 14.26 acre tract being more particularly described as follows with all bearings being based on the Texas Coordinate System of 1983, South Central Zone;

COMMENCING at a found concrete monument for the northwest corner of said 469.08 acre tract, common with the southwest corner of a called 2.97 acre tract of land conveyed to James W. Northrup & Deborah Northrup by Warranty Deed with Vendor's Lien recorded in Clerk's File No. 01-008056 of the Official Records of Brazoria County (ORBC), being in the east line of F.M. Highway 521 recorded in Volume P, Page 201;

THENCE, South 14°02'37" West, along the east line of said F.M. Highway 521, 1960.16 feet to the POINT OF BEGINNING of the herein described subject tract;

THENCE, over and across said 469.08 acre tract the following sixteen (16) courses and distances: 1. South 75°57'23" East, 368.86 feet to a point for corner;

2.South 78°43'03" East, 146.99 feet to a point for corner;

3.South 86°42'50" East, 172.57 feet to a point for corner marking the beginning of a tangent curve to the right;

4.Along the arc of said tangent curve to the right, having a radius of 815.00 feet, a central angle of 3012'04", an arc length of 429.59 feet, and a long chord bearing South 0711'24" East, with a chord length of 424.64 feet to a point for corner;

5.South 2217'26" East, 283.14 feet to a point for corner;

6.South 67°42'34" West, 47.25 feet to a point for corner;

7.South 82°25'29" West, 115.20 feet to a point for corner;

8.South 81'08'49" West, 60.84 feet to a point for corner;

9.South 84'32'11" West, 117.51 feet to a point for corner;

10. South 89°09'01" West, 117.69 feet to a point for corner;

11. North 83°34'43" West, 117.91 feet to a point for corner;

12. North 79°40'46" West, 59.08 feet to a point for corner;

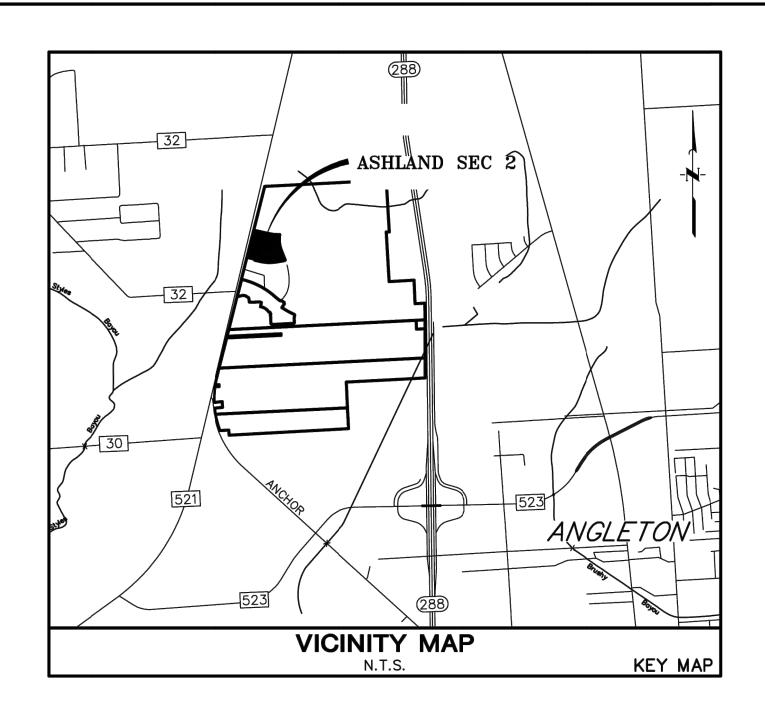
13. North 76°48'30" West, 59.87 feet to a point for corner;

14. North 75°57'23" West, 131.00 feet to a point for corner;

15. North 14°02'37" East, 26.43 feet to a point for corner;

16. North 75°57'23" West, 214.38 feet to a point for corner in the east line of said F.M. Highway 521;

THENCE, North 14°02'37" East, 742.14 feet, along the east line of said F.M. Highway 521, to the POINT OF BEGINNING, CONTAINING 14.26 acres of land in Brazoria County, Texas.



APPROVED this __ day of _____, 20__, by the Planning and Zoning Commission, City of Angleton, Texas.

Chairman, Planning and Zoning Commission

City Secretary

APPROVED this __ day of _____, 20__, by the City Council, City of Angleton, Texas.

_____ Mayor

City Secretary

STATE OF TEXAS § COUNTY OF BRAZORIA § This instrument was acknowledged before me on the __ day of _____, 20__, by

Name

Title On behalf of the Notary Public, State of Texas

ASHLAND SEC 2

A SUBDIVISION OF 14.26 ACRES OF LAND OUT OF THE SHUBAEL MARSH SURVEY, A-82 BRAZORIA COUNTY AND ANGLETON ETJ, TEXAS 62 LOTS 3 RESERVES 2 BLOCKS NOVEMBER 2023

OWNER ANCHOR HOLDINGS MP LLC 101 PARKLANE BOULEVARD SUITE 102 SUGAR LAND, TEXAS 77478 281-912-3364 ENGINEER/PLANNER/SURVEYOR:

Quiddity Engineering, LLC

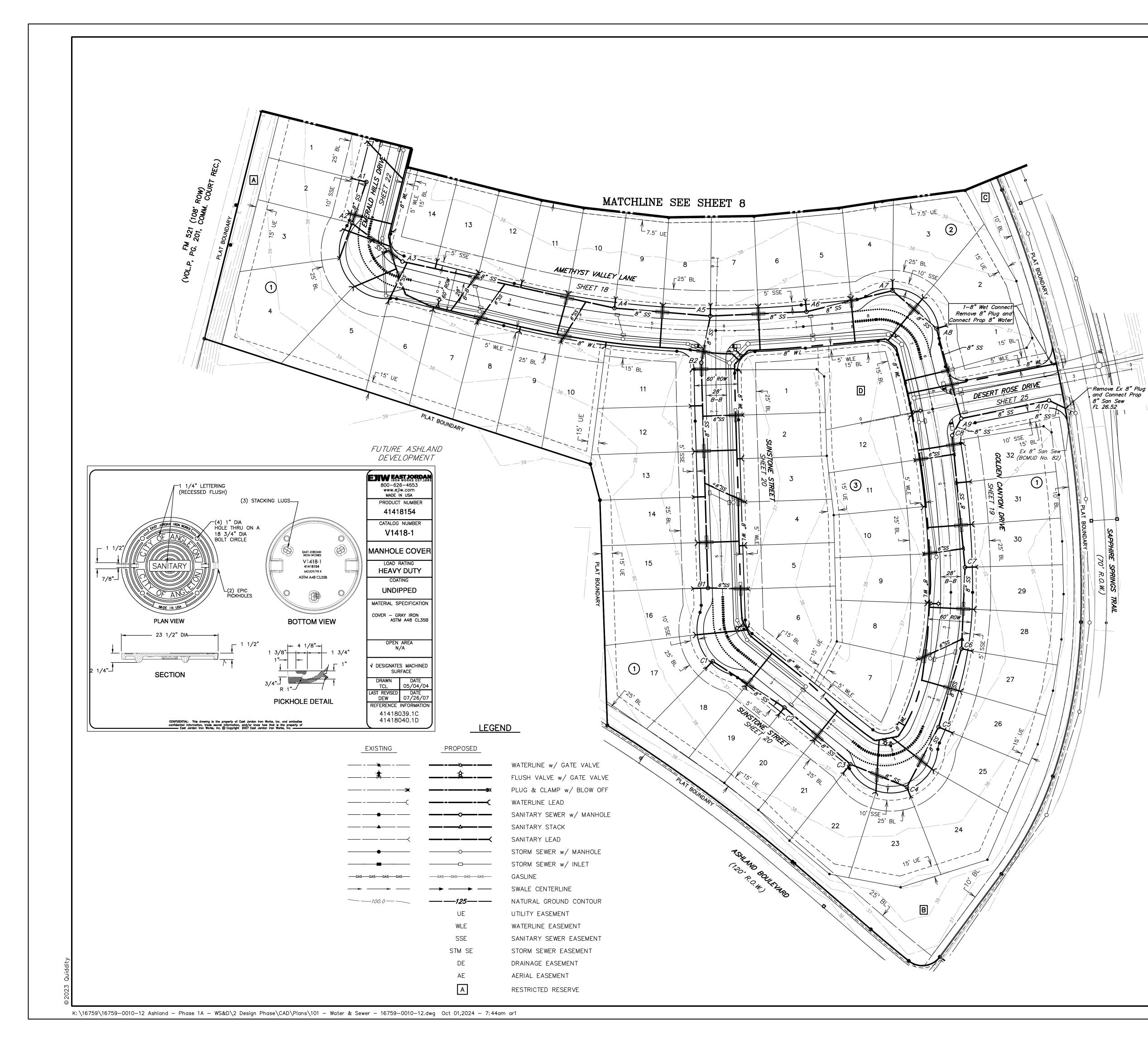
Texas Board of Professional Engineers and Land Surveyors

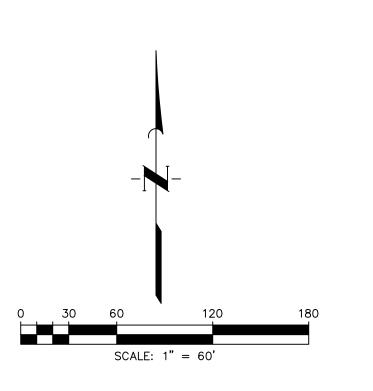
Registration Nos. F-23290 & 10046100 1229 Corporate Drive, Suite 100 • Rosenberg, TX 77471 • 281.342.2033

_///

6 OF 30

SHEET 2 OF 2





BENCHMARK ELEVATIONS WERE OBTAINED WITH REAL TIME KINETIC GLOBAL POSITIONING SATELLITE EQUIPMENT AND ARE BASED ON NATIONAL GEODETIC SURVEY MONUMENT DESIGNATION: DG6956 DWI1 CLUTE COOP CORS ARP DL3490 TXBC BAY CITY CORS ARP DH3614 TXLM LA MARQUE CORS ARP

TBM A BEING A PK NAIL IN ASPHALT LOCATED ON THE EAST SIDE OF FM 521, APPROXIMATELY 1600 \pm SOUTH FROM FM 32, AT THE NORTHWEST CORNER OF THE SUBJECT TRACT, 4.0' FROM THE EDGE OF ASPHALT AND 37' NORTHWEST FROM A POWER POLE ELEVATION = 40.01 FEET, NAVD 88.

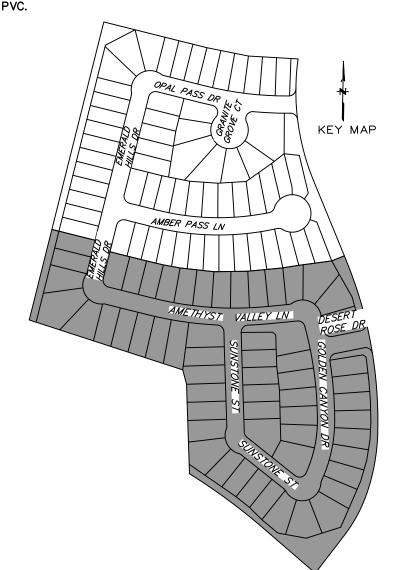
TBM B BEING A PK NAIL IN ASPHALT LOCATED ON THE EAST SIDE OF FM 521, 3130 FEET NORTH FROM THE INTERSECTION OF ANCHOR ROAD, 2.7' FROM THE EDGE OF ASPHALT AND 36' NORTHWEST FROM A POWER POLE. ELEVATION = 36.59 FEET, NAVD 88.

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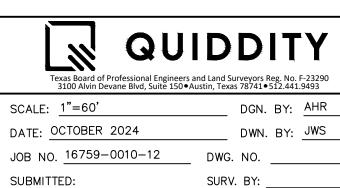
NO. DATE REVISIONS

APP

BRAZORIA COUNTY MUD NO. 82 BARZORIA COUNTY, TEXAS

> ASHLAND SECTIONS 1 & 2 GENERAL CONSTRUCTION LAYOUT

WATER & SEWER I



F.B. NO. _

10/1/2024

Dann Malla

SHEET NO.

OF 30

DATE: OCTOBER 2024 SUBMITTED:

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DARREN J. MCAFEE

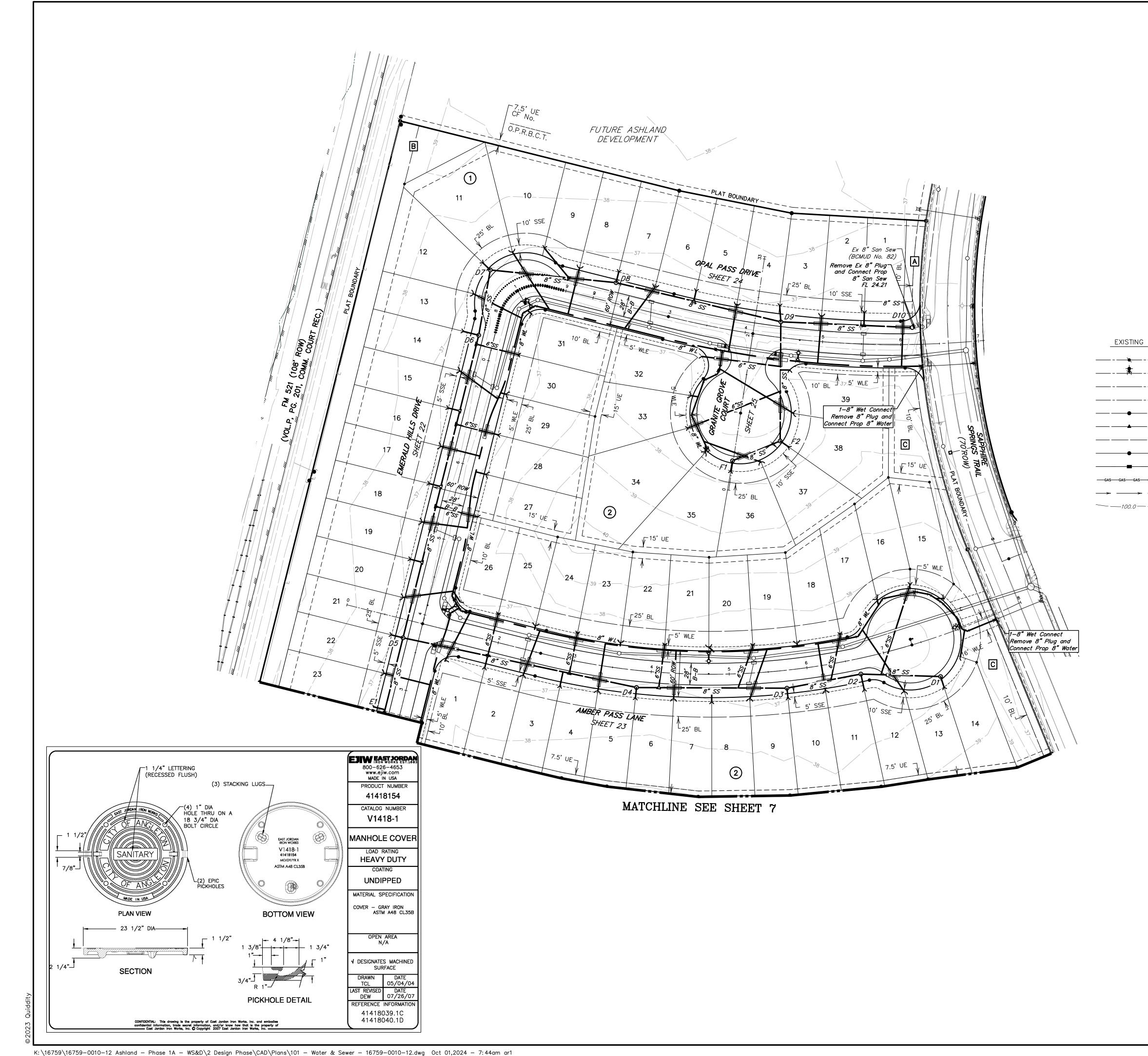
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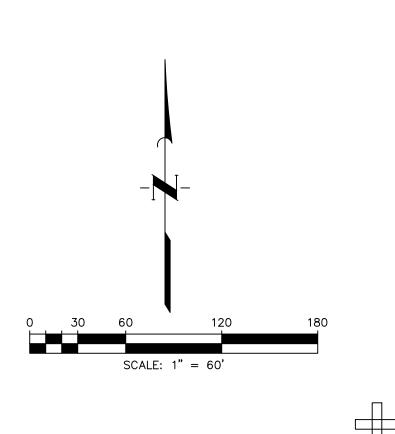
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LEGEND

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WATERLINE w/ GATE VALVE FLUSH VALVE w/ GATE VALVE PLUG & CLAMP w/ BLOW OFF WATERLINE LEAD SANITARY SEWER w/ MANHOLE SANITARY STACK SANITARY LEAD STORM SEWER w/ MANHOLE STORM SEWER w/ INLET GASLINE SWALE CENTERLINE NATURAL GROUND CONTOUR UTILITY EASEMENT WATERLINE EASEMENT SANITARY SEWER EASEMENT STORM SEWER EASEMENT DRAINAGE EASEMENT AERIAL EASEMENT

RESTRICTED RESERVE

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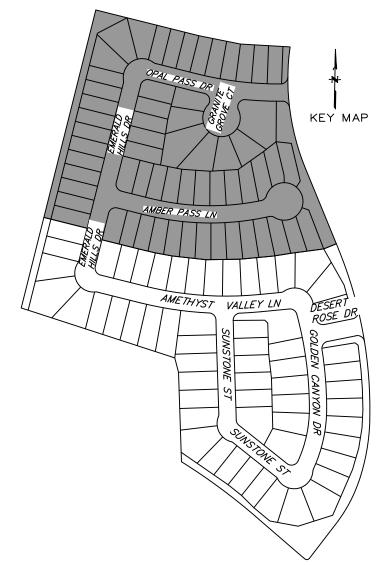
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NO. DATE

BRAZORIA COUNTY MUD NO. 82 BARZORIA COUNTY, TEXAS

REVISIONS

APP.

ASHLAND SECTIONS 1 & 2 GENERAL CONSTRUCTION LAYOUT

WATER & SEWER II

QUIDDITY Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290 3100 Alvin Devane Blvd, Suite 150•Austin, Texas 78741•512.441.9493 SCALE: 1"=60' DGN. BY: AHR DATE: OCTOBER 2024 DWN. BY: JWS JOB NO. 16759-0010-12 DWG. NO. SUBMITTED: SURV. BY:

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DARREN J. MCAFEE

137808

F.B. NO. _

10/1/2024

Dann Mallen

SHEET NO.

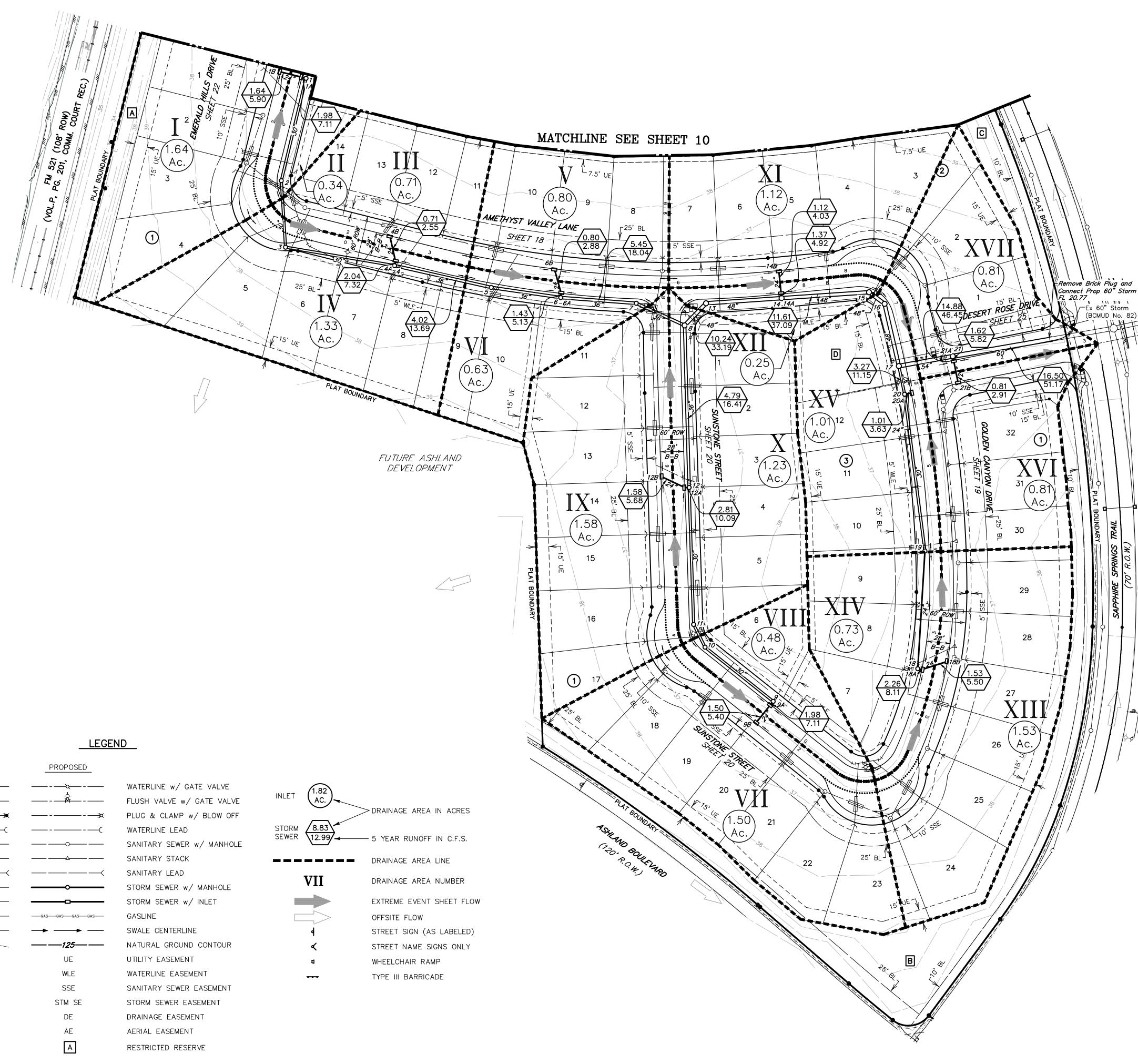
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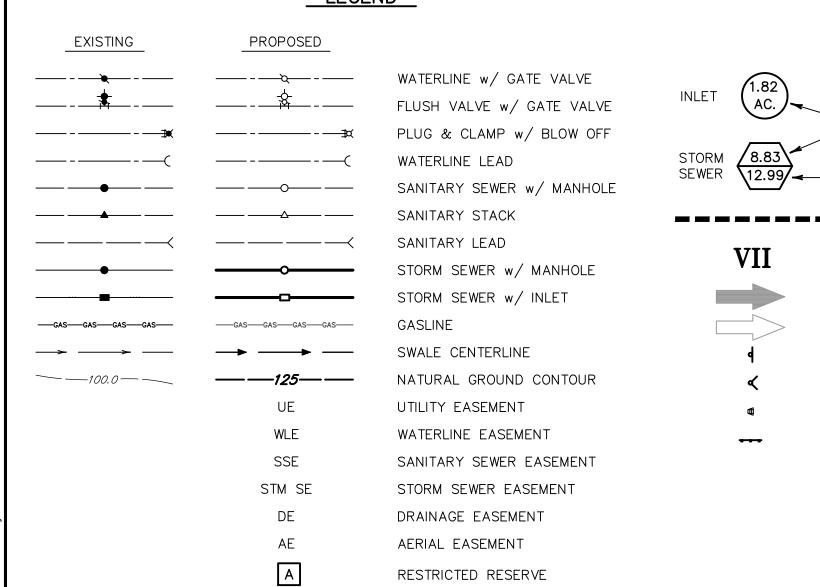
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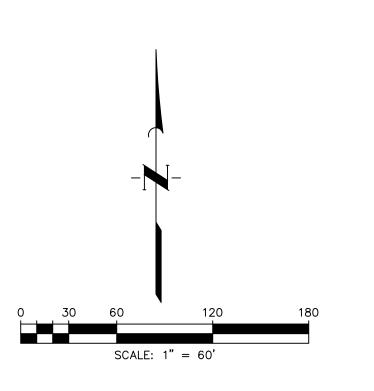
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$\begin{pmatrix} 1.82 \\ AC \end{pmatrix}$	
	> DRAINAGE AREA IN ACRES
8.83	- 5 YEAR RUNOFF IN C.F.S.
	DRAINAGE AREA LINE
VII	DRAINAGE AREA NUMBER
	EXTREME EVENT SHEET FLC
	OFFSITE FLOW
4	STREET SIGN (AS LABELED)
«	STREET NAME SIGNS ONLY
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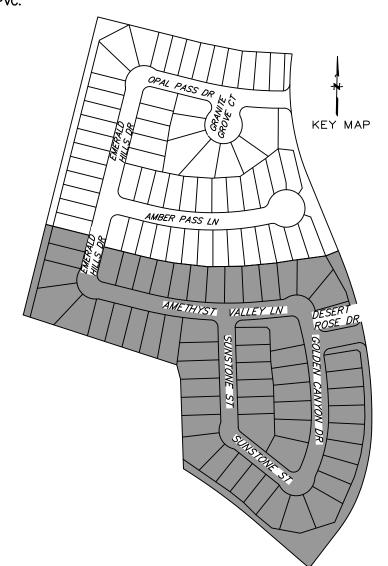
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NO. DATE REVISIONS BRAZORIA COUNTY MUD NO. 82

APP

BARZORIA COUNTY, TEXAS

ASHLAND SECTIONS 1 & 2 GENERAL CONSTRUCTION LAYOUT

PAVING & DRAINAGE I

QUIDDITY Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290 3100 Alvin Devane Blvd, Suite 150 • Austin, Texas 78741 • 512.441.9493 SCALE: 1"=60' DGN. BY: AHR DATE: OCTOBER 2024 DWN. BY: JWS

JOB NO. 16759-0010-12 SUBMITTED:

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DARREN J. MCAFEE

137808

DWG. NO. SURV. BY: F.B. NO. _

Dann Malla

SHEET NO.

OF 30

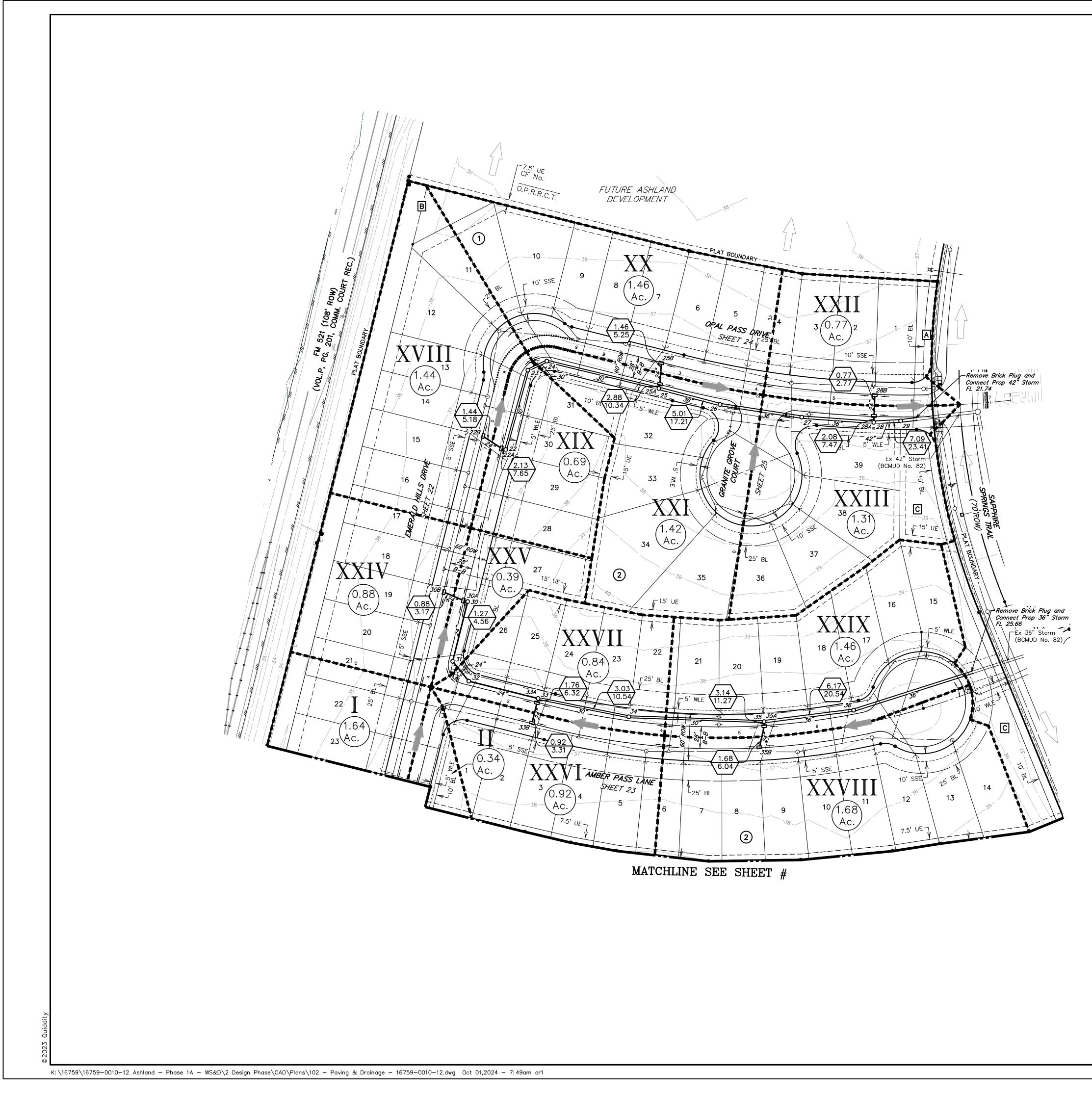
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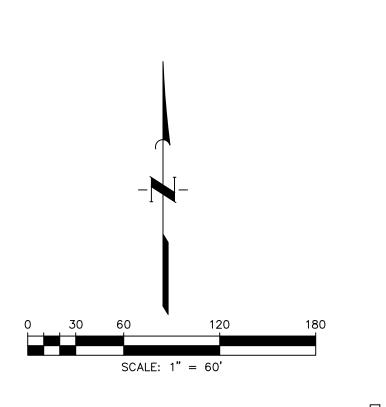
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LEGEND

PROPOSED

EXISTING

	~	WATERLINE w/ GATE VALVE
		FLUSH VALVE w/ GATE VALVE
		PLUG & CLAMP w/ BLOW OFF
((WATERLINE LEAD
	O	SANITARY SEWER w/ MANHOLE
_	<u></u>	SANITARY STACK
<		SANITARY LEAD
	—— •——	STORM SEWER w/ MANHOLE
	o	STORM SEWER w/ INLET
GASGASGAS	GASGASGAS	GASLINE
$\rightarrow \longrightarrow$	$\rightarrow \rightarrow \rightarrow -$	SWALE CENTERLINE
	— <i>125</i> — <i>—</i>	NATURAL GROUND CONTOUR
	UE	UTILITY EASEMENT
	WLE	WATERLINE EASEMENT
	SSE	SANITARY SEWER EASEMENT
	STM SE	STORM SEWER EASEMENT
	DE	DRAINAGE EASEMENT
	AE	AERIAL EASEMENT
	A	RESTRICTED RESERVE
	INLET (1.82)	
	AC.	>drainage area in acres
	STORM 8.83 SEWER 12.99	— 5 YEAR RUNOFF IN C.F.S.
		DRAINAGE AREA LINE
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		EXTREME EVENT SHEET FLOW
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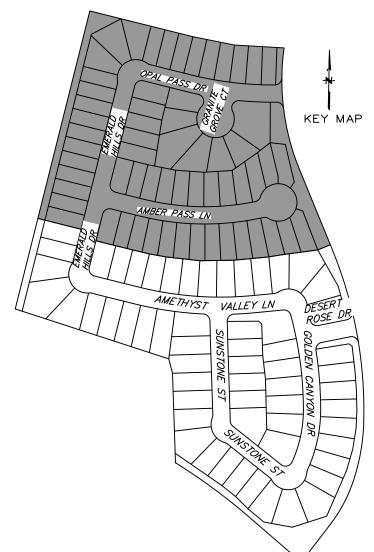
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NO. DATE REVISIONS BRAZORIA COUNTY MUD NO. 82

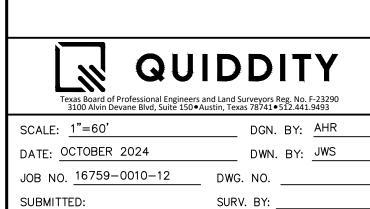
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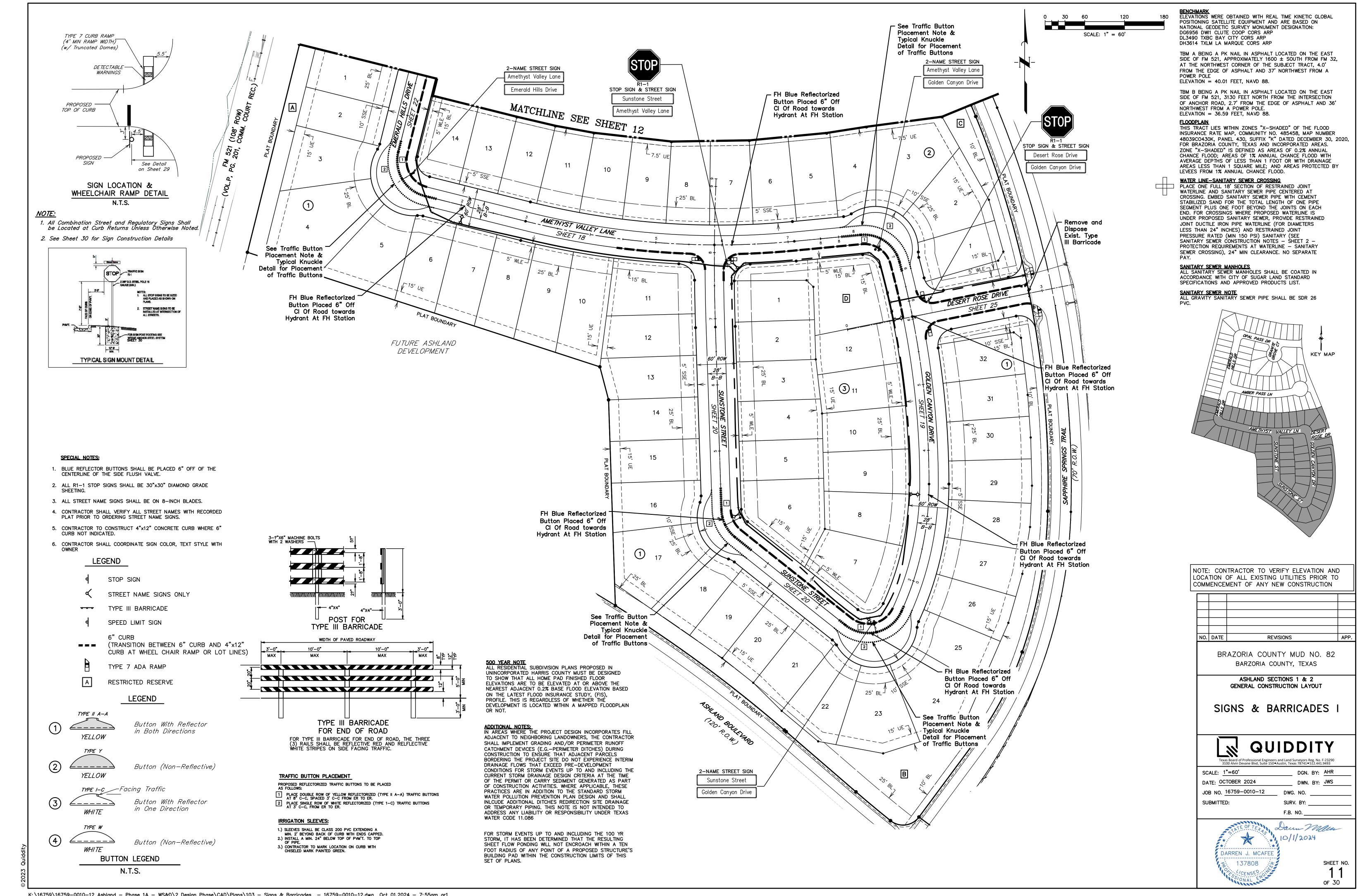
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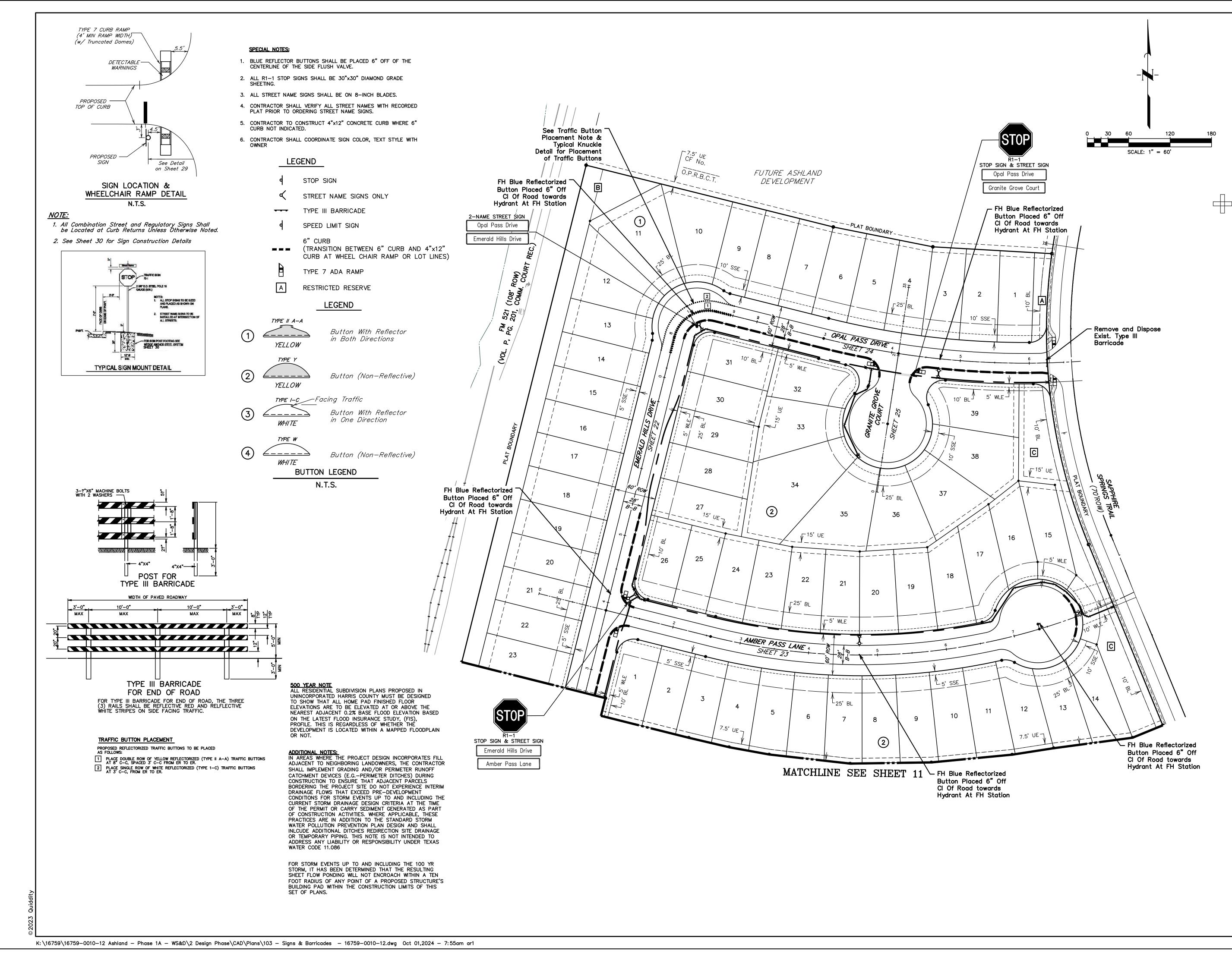
ASHLAND SECTIONS 1 & 2 GENERAL CONSTRUCTION LAYOUT

PAVING & DRAINAGE II



F.B. NO. _ Dann Maller 10/1/2024 * DARREN J. MCAFEE 137808 SHEET NO. 10





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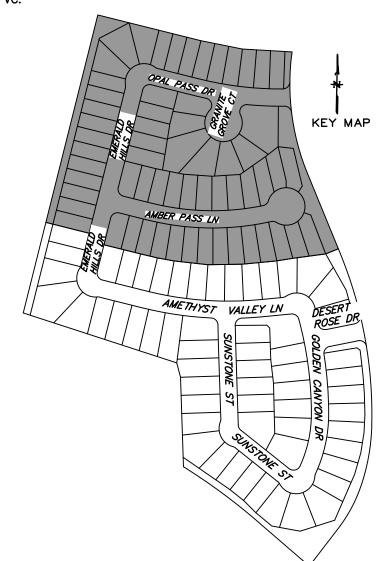
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WATER LINE-SANITARY SEWER CROSSING PLACE ONE FULL 18' SECTION OF RESTRAINED JOINT WATERLINE AND SANITARY SEWER PIPE CENTERED AT CROSSING. EMBED SANITARY SEWER PIPE WITH CEMENT STABILIZED SAND FOR THE TOTAL LENGTH OF ONE PIPE SEGMENT PLUS ONE FOOT BEYOND THE JOINTS ON EACH END. FOR CROSSINGS WHERE PROPOSED WATERLINE IS UNDER PROPOSED SANITARY SEWER, PROVIDE RESTRAINED JOINT DUCTILE IRON PIPE WATERLINE (FOR DIAMETERS LESS THAN 24" INCHES) AND RESTRAINED JOINT PRESSURE RATED (MIN 150 PSI) SANITARY (SEE SANITARY SEWER CONSTRUCTION NOTES - SHEET 2 -PROTECTION REQUIREMENTS AT WATERLINE - SANITARY SEWER CROSSING), 24" MIN CLEARANCE. NO SEPARATE PAY

SANITARY SEWER MANHOLES ALL SANITARY SEWER MANHOLES SHALL BE COATED IN ACCORDANCE WITH CITY OF SUGAR LAND STANDARD SPECIFICATIONS AND APPROVED PRODUCTS LIST.

SANITARY SEWER NOTE ALL GRAVITY SANITARY SEWER PIPE SHALL BE SDR 26



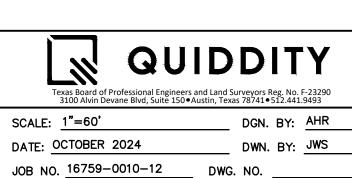
NOTE: CONTRACTOR TO VERIFY ELEVATION AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY NEW CONSTRUCTION

APP. NO. DATE REVISIONS

BRAZORIA COUNTY MUD NO. 82 BARZORIA COUNTY, TEXAS

> ASHLAND SECTIONS 1 & 2 GENERAL CONSTRUCTION LAYOUT

SIGNS & BARRICADES II



SUBMITTED:

X

DARREN J. MCAFEE 137808

SURV. BY: F.B. NO. Dann Mallen

10/1/2024

EROSION AND SEDIMENTATION CONTROL NOTES

- 1. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROLS AT LOCATION SHOWN ON
- 2. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENTATION CONTROL SYSTEMS SPECIFIED HEREIN, AT A MINIMUM OF ONCE EVERY CALENDAR DAY.
- 3. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEM THROUGHOUT THE DURATION OF THE CONTRACT. (NO SEPARATE PAY).
- 4. CONTRACTOR SHALL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER POTENTIALLY TOXIC MATERIALS.
- 5. CONTRACTOR SHALL LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEMS. CONTRACTOR SHALL USE SILT FENCING, HAY BALES, OR BERMS AROUND FUEL STORAGE AREAS. (NO SEPARATE PAY).
- 6. CONTRACTOR SHALL ADVISE OWNER IMMEDIATELY, VERBALLY, AND IN WRITING, OF ANY FUEL OR TOXIC MATERIAL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA AND THE ACTION TAKEN TO REMEDY THE PROBLEM.
- 7. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF HIS FUELS, MATERIALS, AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER. (NO SEPARATE PAY).
- 8. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE ENVIRONMENTAL LAWS.
- 9. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATELY MAINTAINED SANITARY FACILITIES.
- 10. AT COMPLETION OF THE CONTRACT, OWNER AND/OR OWNER'S REPRESENTATIVE WITH THE CONTRACTOR SHALL EXAMINE EROSION AND SEDIMENTATION CONTROL SYSTEM BEFORE RELIEVING CONTRACTOR OF HIS MAINTENANCE RESPONSIBILITIES.
- 11. IF EROSION AND SEDIMENTATION CONTROL SYSTEM IS EXISTING FROM PRIOR CONTRACTS, OWNER AND/OR OWNER'S REPRESENTATIVES WITH THE CONTRACTOR SHALL EXAMINE THE EXISTING EROSION AND SEDIMENTATION CONTROL SYSTEM FOR DAMAGE PRIOR TO CONTRACTOR STARTING CONSTRUCTION OF THE CONTRACT. ANY DAMAGE NOTED AT THIS TIME SHALL BE REPAIRED AT OWNER'S EXPENSE
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR STREET CLEANING, ON A DAILY BASIS, ALL MUD AND DIRT DEPOSITED ON THE EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY.
- 13. IF PAVING CONTRACTOR REMOVES OR PUNCTURES TIMBER GRATE TO ESTABLISH DRAINAGE, INLET MUST BE BE SURROUNDED BY FILTER FABRIC FENCE AS SHOWN IN DETAIL ON THIS SHEET.

MANHOLE/INLET PROTECTION NOTES

- 1. INLETS AND MANHOLES THAT ARE NOT COMPLETE AND/OR ARE SUBJECT TO CONVEYING STORM WATER FLOWS ARE TO BE PROTECTED TO PREVENT SEDIMENT FROM ENTERING THE PROPOSED OR EXISTING STORM SEWER SYSTEM.
- 2. PROTECTION SHALL CONSIST OF ONE LAYER OF 3x12-INCH OAK TIMBERS, ONE (1) INCH APART, COVERED WITH ONE LAYER OF WOVEN POLYPROPYLENE OR POLYESTER FILTER FABRIC (EXXON GTF 100s, PHILLIPS SUPAC 4WS[UV] OR APPROVED EQUAL) HELD IN PLACE WITH 1/2" STAPLES. TIMBERS SHALL BE HELD IN PLACE WITH TWO (2) 2x4's NAILED SECURELY TO EACH TIMBER OVER THE FILTER FABRIC. THE FILTER FABRIC SHALL EXTEND BEYOND THE PERIMETER OF THE OAK TIMBERS AS TO ENSURE ONE (1) FOOT OF BURY BETWEEN THE MANHOLE OR INLET AND THE SURROUNDING SOIL AS SHOWN.
- 3. FILTER FABRIC TO BE CLEANED OR REPLACED WHEN IT CEASES TO FUNCTION PROPERLY OR AS DIRECTED BY THE ENGINEER.
- 4. CONTRACTOR MAY SUBMIT PLANS FOR ALTERNATE METHODS OF PROTECTION. THESE ALTERNATE METHODS MUST BE APPROVED PRIOR TO USE IN THE FIELD
- 5. NO SEPARATE PAYMENT SHALL BE MADE FOR INLET AND MANHOLE PROTECTION. INCLUDE THE COST IN THE UNIT PRICE FOR THE INLETS AND MANHOLES.



INLET PROTECTION BARRIERS FOR STAGE | & || INLETS

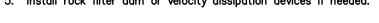
REINFORCED FILTER FABRIC BARRIER STABILIZED CONSTRUCTION ENTRANCE CTW CONCRETE TRUCK WASHOUT AREA

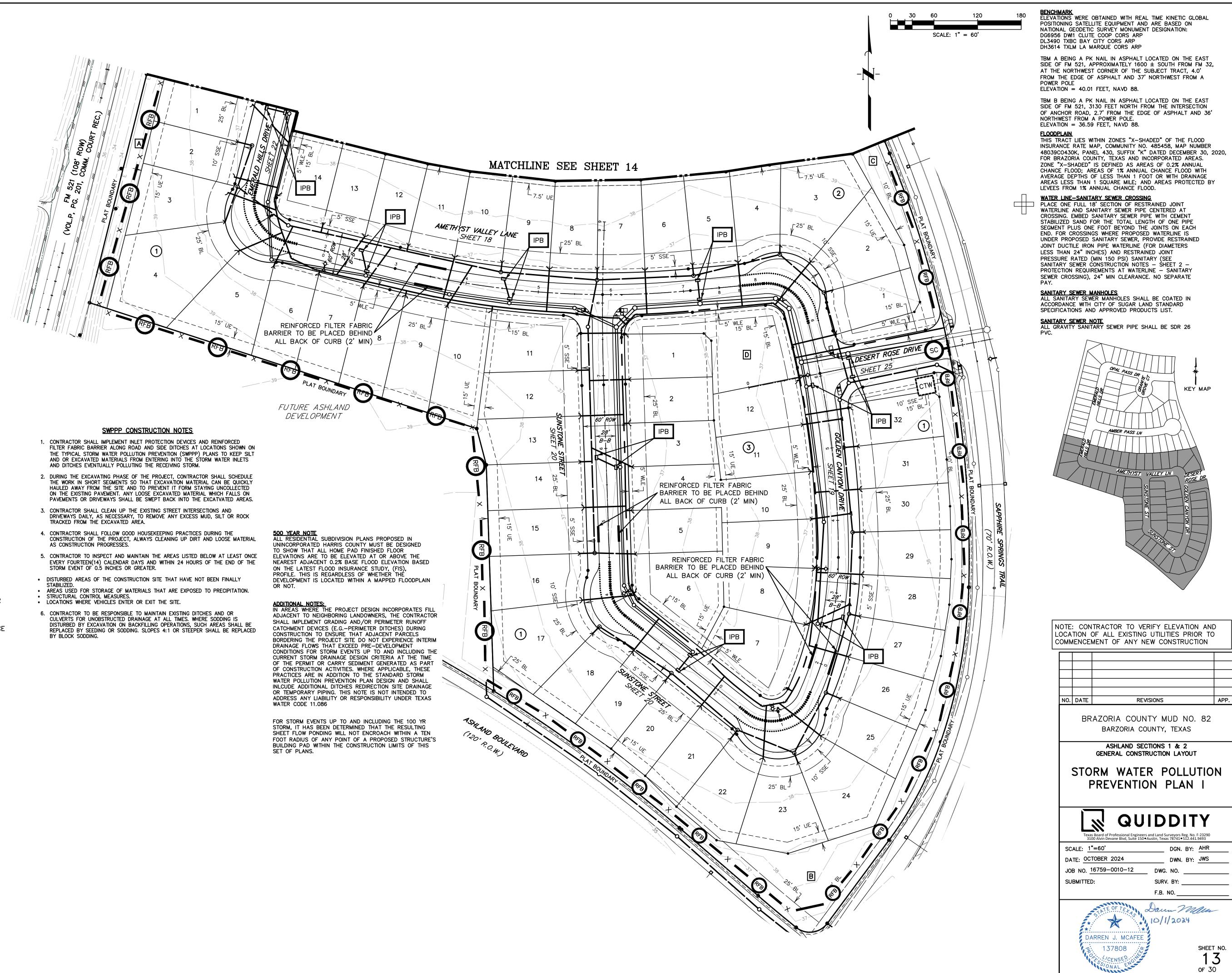
INSTALLATION SEQUENCE

SWPPP CONTRACTOR:

IPB

- 1. Install (sc) at start of construction.
- 2. Install X (FB) X at designated locations.
- 3. Install Gravel Bags at existing inlets. 4. Install other Best Management Practices needed
- prior to construction.
- UTILITY CONTRACTOR:
- 1. Maintain existing facilities. 2. Install IPB for Stage 1 Inlets.
- 3. Install IPB for Stage 1 Inlets.
- 4. Install Filter Fabric below manhole covers and
- inlet grates. PAVING CONTRACTOR:
- 1. Maintain existing Best Management Practices.
- 2. Repair Stage 1 Inlet protection as needed.
- Install x (FB) x behind Stage | Inlets immediately upon completion of paving.
- Coordinate/Request x (FB) Installed by SWPPP Contractor upon completion of curb.
- 5. Sweep existing streets during construction.
- SWPPP CONTRACTOR:
- 1. Install X (FB) X at designated locations.
- 2. Install IPB for Stage II Inlets upon completion of paving
- 3. Area within ROW and Adjacent Easements Disturbed during Construction of Utilities to be Hydro-Mulch Seeded upon
- completion of Utilities. 4. Broadcast Seeding of disturbed areas after final grading
- 5. Install rock filter dam or velocity dissipation devices if needed.





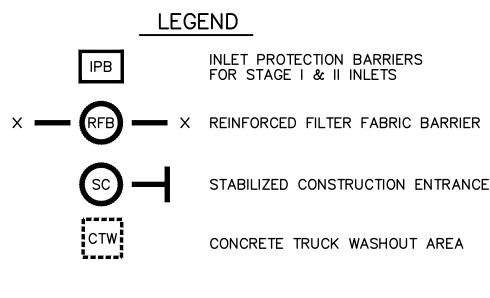
48039C0430K. PANEL 430, SUFFIX "K" DATED DECEMBER 30, 2020,

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INSTALLATION SEQUENCE

SWPPP CONTRACTOR:

- 1. Install (SC) at start of construction.
- 2. Install X (RFB) X at designated locations.
- 3. Install Gravel Bags at existing inlets. 4. Install other Best Management Practices needed
- prior to construction.
- UTILITY CONTRACTOR:
- 1. Maintain existing facilities.
- 2. Install IPB for Stage 1 Inlets. 3. Install IPB for Stage 1 Inlets.
- 4. Install Filter Fabric below manhole covers and
- inlet grates.

PAVING CONTRACTOR:

- 1. Maintain existing Best Management Practices.
- 2. Repair Stage 1 Inlet protection as needed.
- 3. Install x (FF) x behind Stage I Inlets immediately upon completion of paving.
- 4. Coordinate/Request × (FB) Installed by SWPPP Contractor upon completion of curb.
- 5. Sweep existing streets during construction.

SWPPP CONTRACTOR:

- 1. Install X (RFB) X at designated locations.
- 2. Install IPB for Stage II Inlets upon
- completion of paving
- 3. Area within ROW and Adjacent Easements Disturbed during Construction of Utilities to be Hydro-Mulch Seeded upon
- completion of Utilities. Broadcast Seeding of disturbed areas after final grading
- 5. Install rock filter dam or velocity dissipation devices if needed.

500 YEAR NOTE ALL RESIDENTIAL SUBDIVISION PLANS PROPOSED IN UNINCORPORATED HARRIS COUNTY MUST BE DESIGNED TO SHOW THAT ALL HOME PAD FINISHED FLOOR ELEVATIONS ARE TO BE ELEVATED AT OR ABOVE THE NEAREST ADJACENT 0.2% BASE FLOOD ELEVATION BASED ON THE LATEST FLOOD INSURANCE STUDY, (FIS), PROFILE. THIS IS REGARDLESS OF WHETHER THE DEVELOPMENT IS LOCATED WITHIN A MAPPED FLOODPLAIN OR NOT.

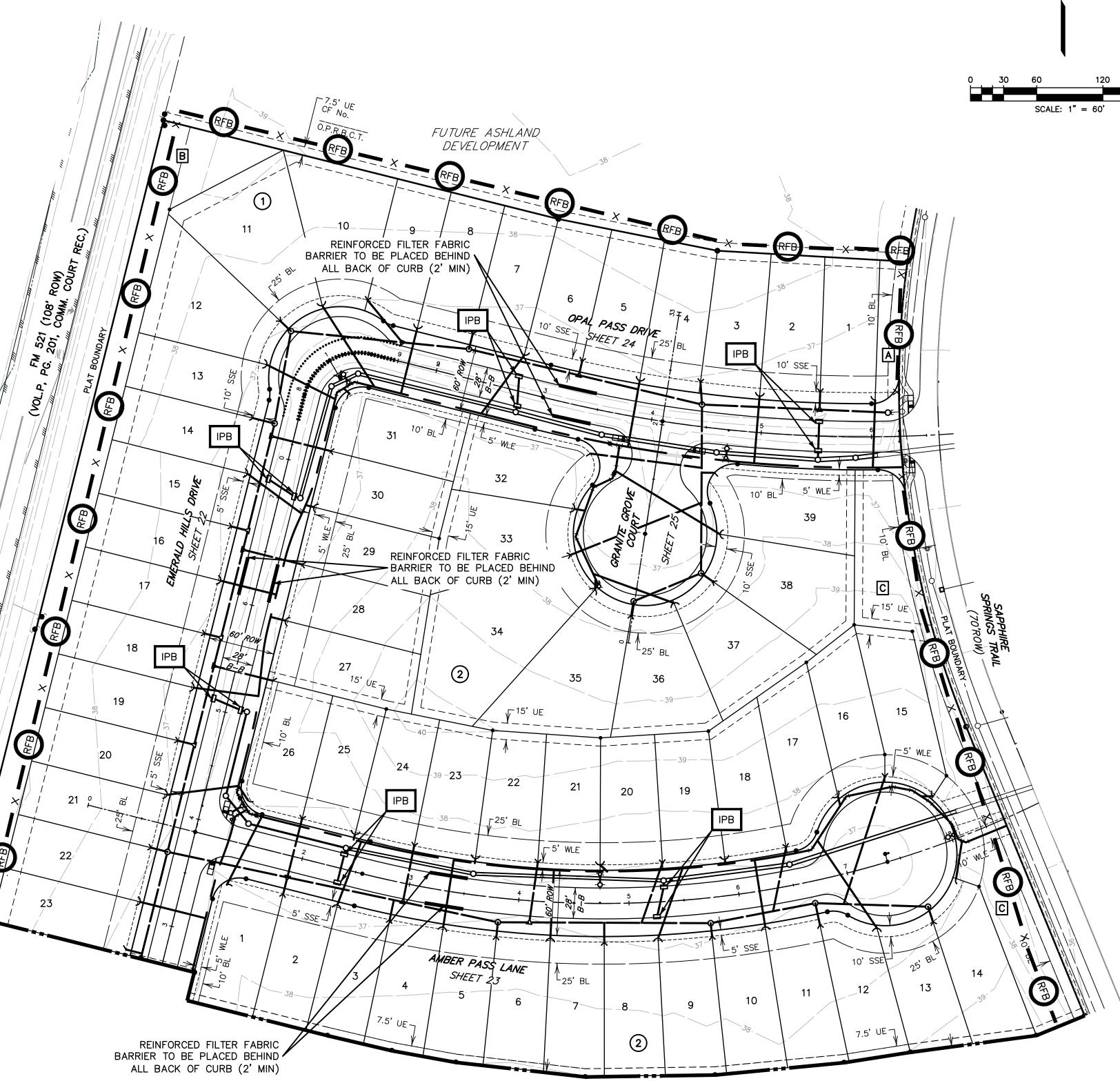
- ADDITIONAL NOTES: IN AREAS WHERE THE PROJECT DESIGN INCORPORATES FILL ADJACENT TO NEIGHBORING LANDOWNERS. THE CONTRACTOR SHALL IMPLEMENT GRADING AND/OR PERIMETER RUNOFF CATCHMENT DEVICES (E.G.-PERIMETER DITCHES) DURING CONSTRUCTION TO ENSURE THAT ADJACENT PARCELS BORDERING THE PROJECT SITE DO NOT EXPERIENCE INTERIM DRAINAGE FLOWS THAT EXCEED PRE-DEVELOPMENT CONDITIONS FOR STORM EVENTS UP TO AND INCLUDING THE CURRENT STORM DRAINAGE DESIGN CRITERIA AT THE TIME OF THE PERMIT OR CARRY SEDIMENT GENERATED AS PART
- OF CONSTRUCTION ACTIVITIES. WHERE APPLICABLE, THESE PRACTICES ARE IN ADDITION TO THE STANDARD STORM WATER POLLUTION PREVENTION PLAN DESIGN AND SHALL INLCUDE ADDITIONAL DITCHES REDIRECTION SITE DRAINAGE OR TEMPORARY PIPING. THIS NOTE IS NOT INTENDED TO ADDRESS ANY LIABILITY OR RESPONSIBILITY UNDER TEXAS WATER CODE 11.086

FOR STORM EVENTS UP TO AND INCLUDING THE 100 YR STORM, IT HAS BEEN DETERMINED THAT THE RESULTING

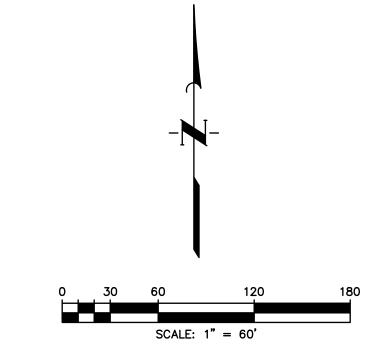
SHEET FLOW PONDING WILL NOT ENCROACH WITHIN A TEN FOOT RADIUS OF ANY POINT OF A PROPOSED STRUCTURE'S BUILDING PAD WITHIN THE CONSTRUCTION LIMITS OF THIS SET OF PLANS.

SWPPP CONSTRUCTION NOTES

- CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPPP) PLANS TO KEEP SILT AND OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.
- 2. DURING THE EXCAVATING PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATION MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FORM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCATVATED AREAS.
- 3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FROM THE EXCAVATED AREA.
- 4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
- 5. CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN(14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM EVENT OF 0.5 INCHES OR GREATER.
- DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION. • STRUCTURAL CONTROL MEASURES.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
- 6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK SODDING.



MATCHLINE SEE SHEET 13



BENCHMARK ELEVATIONS WERE OBTAINED WITH REAL TIME KINETIC GLOBAL POSITIONING SATELLITE EQUIPMENT AND ARE BASED ON NATIONAL GEODETIC SURVEY MONUMENT DESIGNATION: DG6956 DWI1 CLUTE COOP CORS ARP DL3490 TXBC BAY CITY CORS ARP DH3614 TXLM LA MARQUE CORS ARP

TBM A BEING A PK NAIL IN ASPHALT LOCATED ON THE EAST SIDE OF FM 521, APPROXIMATELY 1600 \pm SOUTH FROM FM 32, AT THE NORTHWEST CORNER OF THE SUBJECT TRACT, 4.0' FROM THE EDGE OF ASPHALT AND 37' NORTHWEST FROM A POWER POLE ELEVATION = 40.01 FEET, NAVD 88.

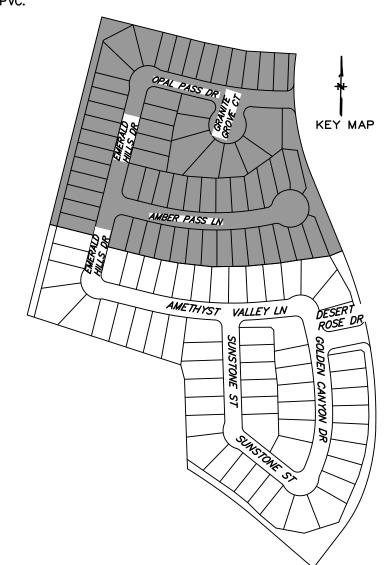
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SANITARY SEWER MANHOLES ALL SANITARY SEWER MANHOLES SHALL BE COATED IN ACCORDANCE WITH CITY OF SUGAR LAND STANDARD SPECIFICATIONS AND APPROVED PRODUCTS LIST.

SANITARY SEWER NOTE ALL GRAVITY SANITARY SEWER PIPE SHALL BE SDR 26



NOTE: CONTRACTOR TO VERIFY ELEVATION AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY NEW CONSTRUCTION

NO. DATE REVISIONS

APP.

BRAZORIA COUNTY MUD NO. 82 BARZORIA COUNTY, TEXAS

ASHLAND SECTIONS 1 & 2 GENERAL CONSTRUCTION LAYOUT

STORM WATER POLLUTION PREVENTION PLAN II QUIDDITY

Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290 3100 Alvin Devane Blvd, Suite 150 • Austin, Texas 78741 • 512.441.9493 SCALE: 1"=60' DATE: OCTOBER 2024 JOB NO. 16759-0010-12 SUBMITTED:

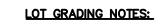
> DARREN J. MCAFEE 137808

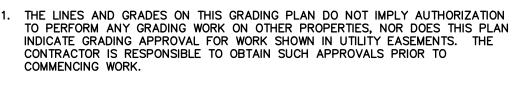
DGN. BY: AHR DWN. BY: JWS DWG. NO. SURV. BY: F.B. NO.

10/1/2024

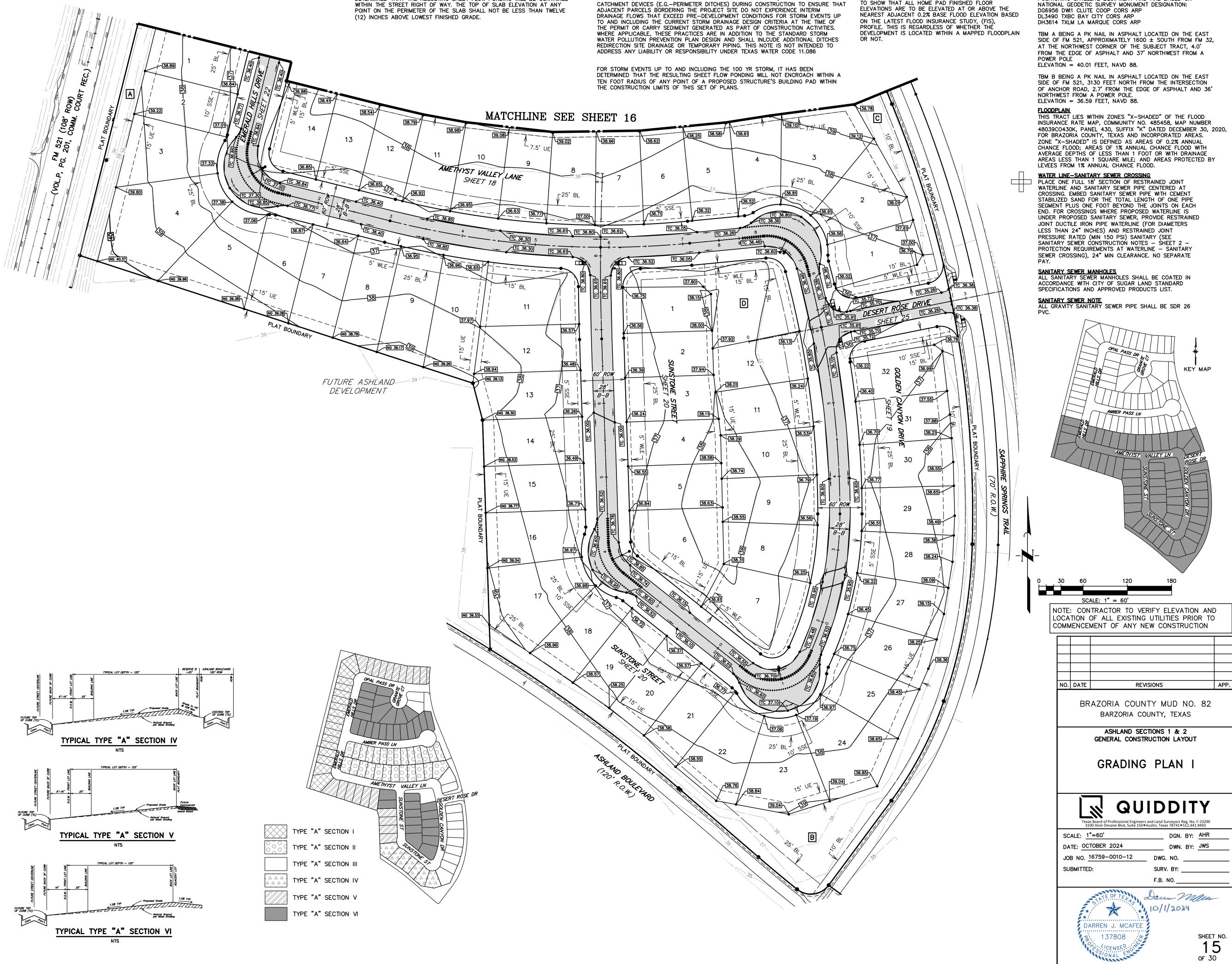
SHEET NO. 4 of 30

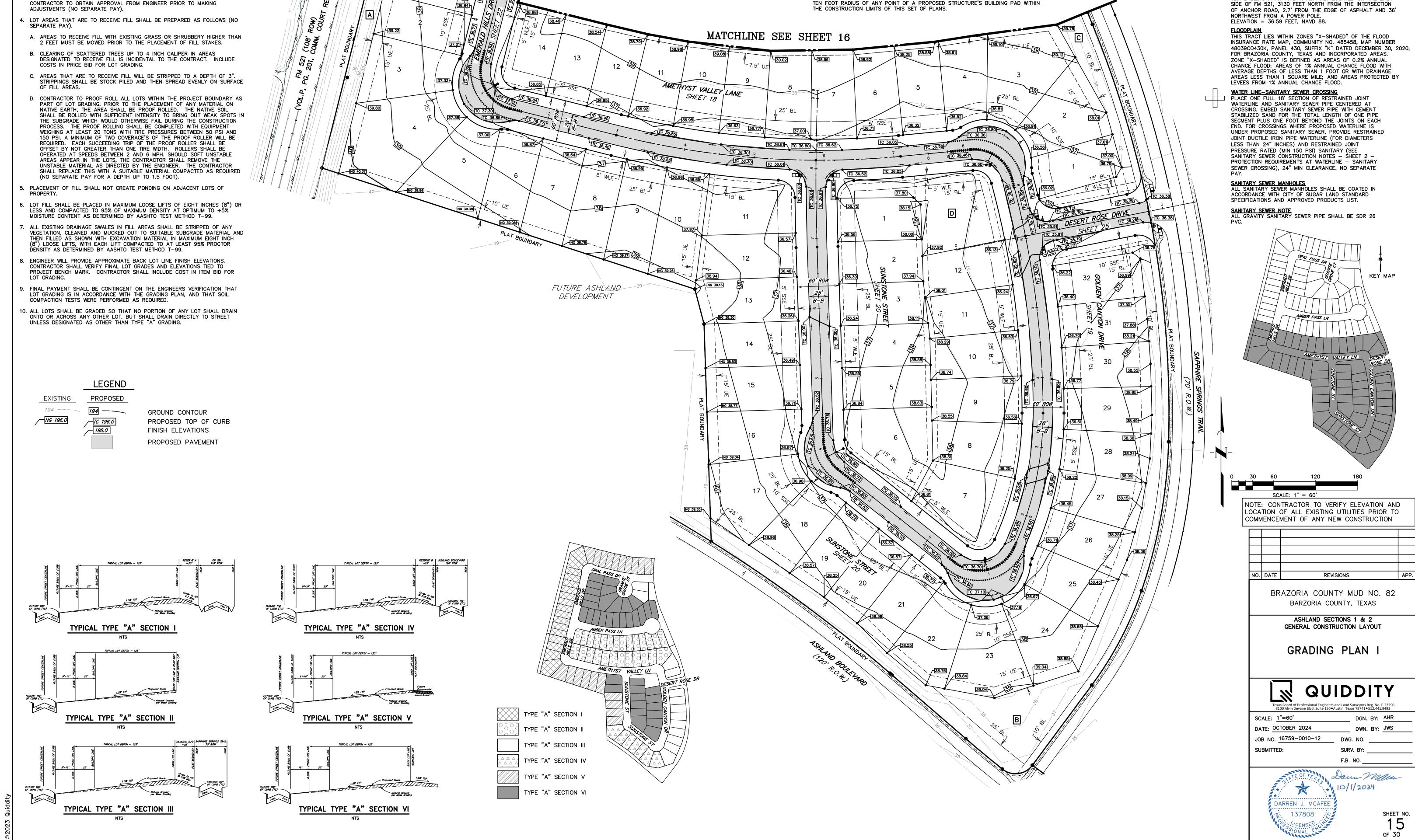
Dann Malla





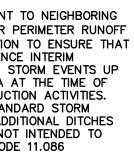
- 2. THE CONTRACTOR SHALL COMPLETE ALL EXCAVATION ACTIVITIES TO THE LINES AND GRADES SHOWN BY THIS PLAN. UNIFORM SMOOTH GRADING OF ALL AREAS SHALL BE ACCOMPLISHED. THE FINISHED SURFACE SHALL BE REASONABLY SMOOTH AND FREE FROM IRREGULARITIES.
- 3. THE CONTRACTOR SHALL FIELD ADJUST THE PROPOSED LOCATION AND ROUTING OF SURFACE DRAINAGE SWALES TO OPTIMIZE DRAINAGE, AS REQUIRED. CONTRACTOR TO OBTAIN APPROVAL FROM ENGINEER PRIOR TO MAKING
- SEPARATE PAY).
- 2 FEET MUST BE MOWED PRIOR TO THE PLACEMENT OF FILL STAKES.
- COSTS IN PRICE BID FOR LOT GRADING.
- OF FILL AREAS.
- PART OF LOT GRADING. PRIOR TO THE PLACEMENT OF ANY MATERIAL ON NATIVE EARTH, THE AREA SHALL BE PROOF ROLLED. THE NATIVE SOIL THE SUBGRADE WHICH WOULD OTHERWISE FAIL DURING THE CONSTRUCTION PROCESS. THE PROOF ROLLING SHALL BE COMPLETED WITH EQUIPMENT WEIGHING AT LEAST 20 TONS WITH TIRE PRESSURES BETWEEN 50 PSI AND 150 PSI. A MINIMUM OF TWO COVERAGE'S OF THE PROOF ROLLER WILL BE REQUIRED. EACH SUCCEEDING TRIP OF THE PROOF ROLLER SHALL BE OFFSET BY NOT GREATER THAN ONE TIRE WIDTH. ROLLERS SHALL BE OPERATED AT SPEEDS BETWEEN 2 AND 6 MPH. SHOULD SOFT UNSTABLE AREAS APPEAR IN THE LOTS, THE CONTRACTOR SHALL REMOVE THE UNSTABLE MATERIAL AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REPLACE THIS WITH A SUITABLE MATERIAL COMPACTED AS REQUIRED (NO SEPARATE PAY FOR A DEPTH UP TO 1.5 FOOT).
- LESS AND COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM TO +5%MOISTURE CONTENT AS DETERMINED BY AASHTO TEST METHOD T-99.
- THEN FILLED AS SHOWN WITH EXCAVATION MATERIAL IN MAXIMUM EIGHT INCH (8") LOOSE LIFTS, WITH EACH LIFT COMPACTED TO AT LEAST 95% PROCTOR DENSITY AS DETERMINED BY AASHTO TEST METHOD T-99.
- LOT GRADING.
- LOT GRADING IS IN ACCORDANCE WITH THE GRADING PLAN, AND THAT SOIL COMPACTION TESTS WERE PERFORMED AS REQUIRED.
- ONTO OR ACROSS ANY OTHER LOT, BUT SHALL DRAIN DIRECTLY TO STREET UNLESS DESIGNATED AS OTHER THAN TYPE "A" GRADING.





NOTE: FOR STORM EVENTS UP TO AND INCLUDING THE 100 YR STORM, IT HAS BEEN DETERMINED THAT THE RESULTING SHEET FLOW PONDING WILL BE CONTAINED

ADDITIONAL NOTES: IN AREAS WHERE THE PROJECT DESIGN INCORPORATES FILL ADJACENT TO NEIGHBORING LANDOWNERS, THE CONTRACTOR SHALL IMPLEMENT GRADING AND/OR PERIMETER RUNOFF



500 YEAR NOTE ALL RESIDENTIAL SUBDIVISION PLANS PROPOSED IN UNINCORPORATED HARRIS COUNTY MUST BE DESIGNED TO SHOW THAT ALL HOME PAD FINISHED FLOOR

BENCHMARK ELEVATIONS WERE OBTAINED WITH REAL TIME KINETIC GLOBAL POSITIONING SATELLITE EQUIPMENT AND ARE BASED ON

LOT GRADING NOTES:

- 1. THE LINES AND GRADES ON THIS GRADING PLAN DO NOT IMPLY AUTHORIZATION TO PERFORM ANY GRADING WORK ON OTHER PROPERTIES, NOR DOES THIS PLAN INDICATE GRADING APPROVAL FOR WORK SHOWN IN UTILITY EASEMENTS. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN SUCH APPROVALS PRIOR TO COMMENCING WORK.
- 2. THE CONTRACTOR SHALL COMPLETE ALL EXCAVATION ACTIVITIES TO THE LINES AND GRADES SHOWN BY THIS PLAN. UNIFORM SMOOTH GRADING OF ALL AREAS SHALL BE ACCOMPLISHED. THE FINISHED SURFACE SHALL BE REASONABLY SMOOTH AND FREE FROM IRREGULARITIES.
- 3. THE CONTRACTOR SHALL FIELD ADJUST THE PROPOSED LOCATION AND ROUTING OF SURFACE DRAINAGE SWALES TO OPTIMIZE DRAINAGE, AS REQUIRED. CONTRACTOR TO OBTAIN APPROVAL FROM ENGINEER PRIOR TO MAKING ADJUSTMENTS (NO SEPARATE PAY).
- 4. LOT AREAS THAT ARE TO RECEIVE FILL SHALL BE PREPARED AS FOLLOWS (NO SEPARATE PAY).A. AREAS TO RECEIVE FILL WITH EXISTING GRASS OR
- SHRUBBERY HIGHER THAN 2 FEET MUST BE MOWED PRIOR TO THE PLACEMENT OF FILL STAKES. B. CLEARING OF SCATTERED TREES UP TO 4 INCH CALIPER
- IN AREAS DESIGNATED TO RECEIVE FILL IS INCIDENTAL TO THE CONTRACT. INCLUDE COSTS IN PRICE BID FOR LOT GRADING.
- C. AREAS THAT ARE TO RECEIVE FILL WILL BE STRIPPED TO A DEPTH OF 3". STRIPPINGS SHALL BE STOCK PILED AND THEN SPREAD EVENLY ON SURFACE OF FILL AREAS.
- D. CONTRACTOR TO PROOF ROLL ALL LOTS WITHIN THE PROJECT BOUNDARY AS PART OF LOT GRADING. PRIOR TO THE PLACEMENT OF ANY MATERIAL ON NATIVE EARTH, THE AREA SHALL BE PROOF ROLLED. THE NATIVE SOIL SHALL BE ROLLED WITH SUFFICIENT INTENSITY TO BRING OUT WEAK SPOTS IN THE SUBGRADE WHICH WOULD OTHERWISE FAIL DURING THE CONSTRUCTION PROCESS. THE PROOF ROLLING SHALL BE COMPLETED WITH EQUIPMENT WEIGHING AT LEAST 20 TONS WITH TIRE PRESSURES BETWEEN 50 PSI AND 150 PSI. A MINIMUM OF TWO COVERAGE'S OF THE PROOF ROLLER WILL BE REQUIRED. EACH SUCCEEDING TRIP OF THE PROOF ROLLER SHALL BE OFFSET BY NOT GREATER THAN ONE TIRE WIDTH. ROLLERS SHALL BE OPERATED AT SPEEDS BETWEEN 2 AND 6 MPH. SHOULD SOFT UNSTABLE AREAS APPEAR IN THE LOTS, THE CONTRACTOR SHALL REMOVE THE UNSTABLE MATERIAL AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REPLACE THIS WITH A SUITABLE MATERIAL COMPACTED AS REQUIRED (NO SEPARATE PAY FOR A DEPTH UP TO 1.5 FOOT).
- 5. PLACEMENT OF FILL SHALL NOT CREATE PONDING ON ADJACENT LOTS OF PROPERTY.
- 6. LOT FILL SHALL BE PLACED IN MAXIMUM LOOSE LIFTS OF EIGHT INCHES (8") OR LESS AND COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM TO +5% MOISTURE CONTENT AS DETERMINED BY AASHTO TEST METHOD T-99.
- ALL EXISTING DRAINAGE SWALES IN FILL AREAS SHALL BE STRIPPED OF ANY VEGETATION, CLEANED AND MUCKED OUT TO SUITABLE SUBGRADE MATERIAL AND THEN FILLED AS SHOWN WITH EXCAVATION MATERIAL IN MAXIMUM EIGHT INCH (8") LOOSE LIFTS, WITH EACH LIFT COMPACTED TO AT LEAST 95% PROCTOR DENSITY AS DETERMINED BY AASHTO TEST METHOD T-99.
- 8. ENGINEER WILL PROVIDE APPROXIMATE BACK LOT LINE FINISH ELEVATIONS. CONTRACTOR SHALL VERIFY FINAL LOT GRADES AND ELEVATIONS TIED TO PROJECT BENCH MARK. CONTRACTOR SHALL INCLUDE COST IN ITEM BID FOR LOT GRADING.
- 9. FINAL PAYMENT SHALL BE CONTINGENT ON THE ENGINEERS VERIFICATION THAT LOT GRADING IS IN ACCORDANCE WITH THE GRADING PLAN, AND THAT SOIL COMPACTION TESTS WERE PERFORMED AS REQUIRED.
- 10. ALL LOTS SHALL BE GRADED SO THAT NO PORTION OF ANY LOT SHALL DRAIN ONTO OR ACROSS ANY OTHER LOT, BUT SHALL DRAIN DIRECTLY TO STREET UNLESS DESIGNATED AS OTHER THAN TYPE "A" GRADING.

EXISTING PROPOSED

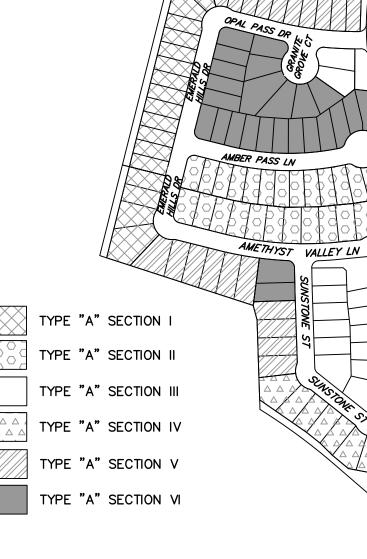
194 ---- **194** ----<u>NG 196.0</u> <u>TC 196.0</u> <u>196.0</u>

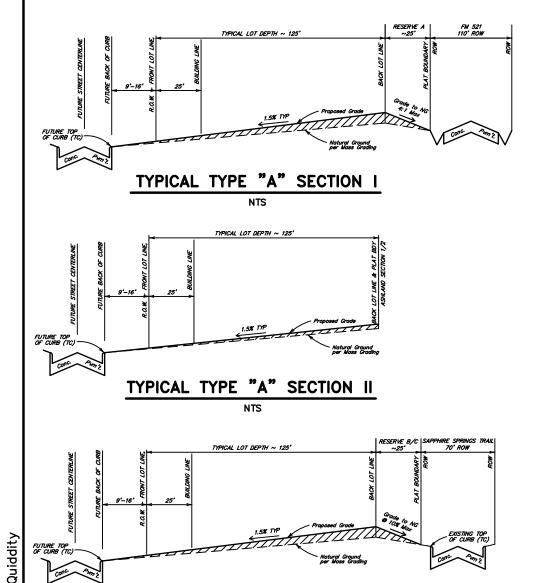
GROUND CONTOUR PROPOSED TOP OF CURB FINISH ELEVATIONS PROPOSED PAVEMENT

500 YEAR NOTE ALL RESIDENTIAL SUBDIVISION PLANS PROPOSED IN UNINCORPORATED HARRIS COUNTY MUST BE DESIGNED TO SHOW THAT ALL HOME PAD FINISHED FLOOR ELEVATIONS ARE TO BE ELEVATED AT OR ABOVE THE NEAREST ADJACENT 0.2% BASE FLOOD ELEVATION BASED ON THE LATEST FLOOD INSURANCE STUDY, (FIS), PROFILE. THIS IS REGARDLESS OF WHETHER THE DEVELOPMENT IS LOCATED WITHIN A MAPPED FLOODPLAIN OR NOT.

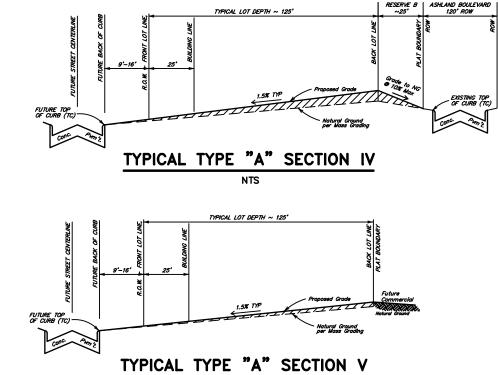
ADDITIONAL NOTES: IN AREAS WHERE THE PROJECT DESIGN INCORPORATES FILL ADJACENT TO NEIGHBORING LANDOWNERS, THE CONTRACTOR SHALL IMPLEMENT GRADING AND/OR PERIMETER RUNOFF CATCHMENT DEVICES (E.G.-PERIMETER DITCHES) DURING CONSTRUCTION TO ENSURE THAT ADJACENT PARCELS BORDERING THE PROJECT SITE DO NOT EXPERIENCE INTERIM DRAINAGE FLOWS THAT EXCEED PRE-DEVELOPMENT CONDITIONS FOR STORM EVENTS UP TO AND INCLUDING THE CURRENT STORM DRAINAGE DESIGN CRITERIA AT THE TIME OF THE PERMIT OR CARRY SEDIMENT GENERATED AS PART OF CONSTRUCTION ACTIVITIES. WHERE APPLICABLE. THESE PRACTICES ARE IN ADDITION TO THE STANDARD STORM WATER POLLUTION PREVENTION PLAN DESIGN AND SHALL INLCUDE ADDITIONAL DITCHES REDIRECTION SITE DRAINAGE OR TEMPORARY PIPING. THIS NOTE IS NOT INTENDED TO ADDRESS ANY LIABILITY OR RESPONSIBILITY UNDER TEXAS WATER CODE 11.086

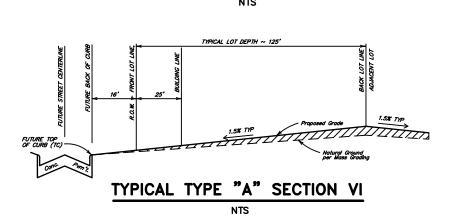
FOR STORM EVENTS UP TO AND INCLUDING THE 100 YR STORM, IT HAS BEEN DETERMINED THAT THE RESULTING SHEET FLOW PONDING WILL NOT ENCROACH WITHIN A TEN FOOT RADIUS OF ANY POINT OF A PROPOSED STRUCTURE'S BUILDING PAD WITHIN THE CONSTRUCTION LIMITS OF THIS SET OF PLANS.

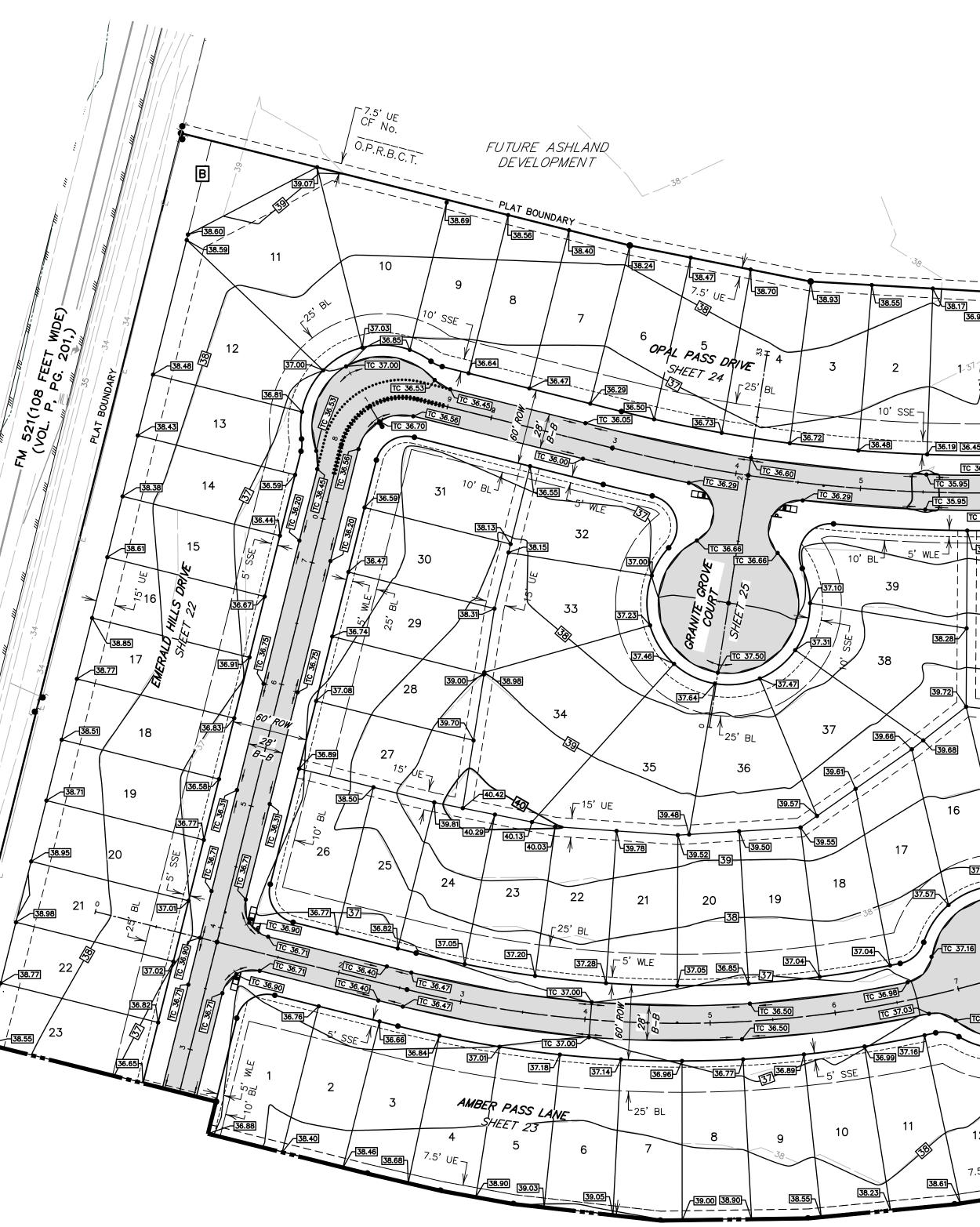




TYPICAL TYPE "A" SECTION III

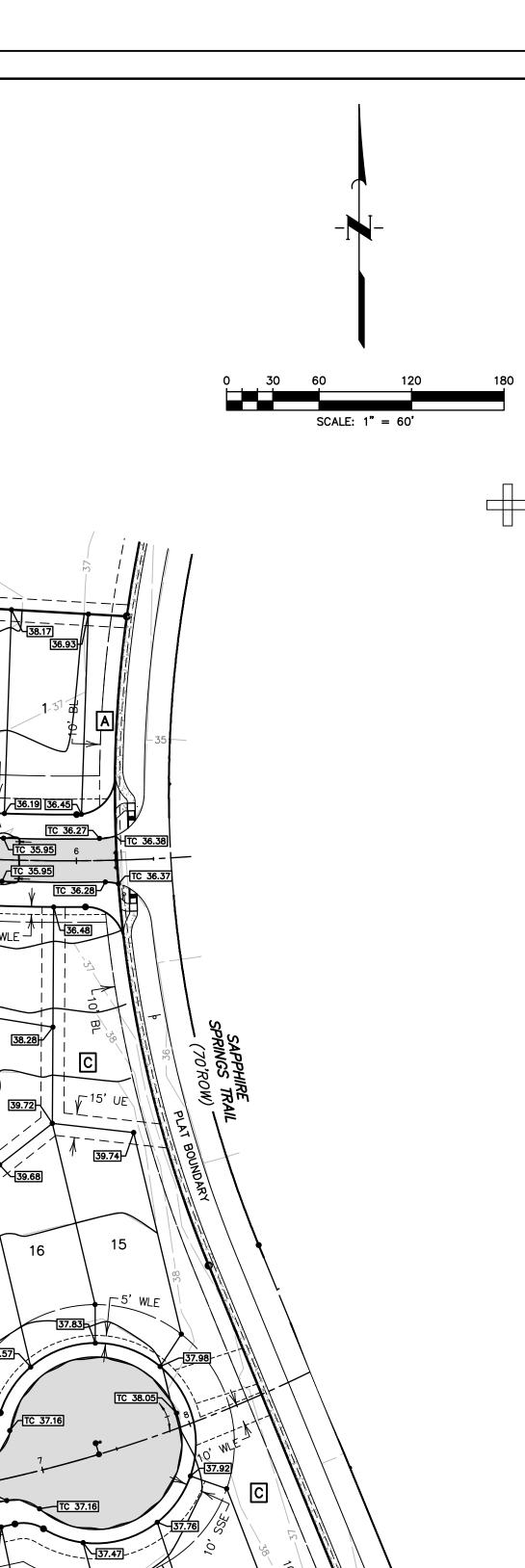






MATCHLINE SEE SHEET 15

FOR STORM EVENTS UP TO AND INCLUDING THE 100 YR STORM, IT HAS BEEN DETERMINED THAT THE RESULTING SHEET FLOW PONDING WILL BE CONTAINED WITHIN THE STREET RIGHT OF WAY. THE TOP OF SLAB ELEVATION AT ANY POINT ON THE PERIMETER OF THE SLAB SHALL NOT BE LESS THAN TWELVE (12) INCHES ABOVE LOWEST FINISHED GRADE.



BENCHMARK ELEVATIONS WERE OBTAINED WITH REAL TIME KINETIC GLOBAL POSITIONING SATELLITE EQUIPMENT AND ARE BASED ON NATIONAL GEODETIC SURVEY MONUMENT DESIGNATION: DG6956 DW1 CLUTE COOP CORS ARP DL3490 TXBC BAY CITY CORS ARP DH3614 TXLM LA MARQUE CORS ARP

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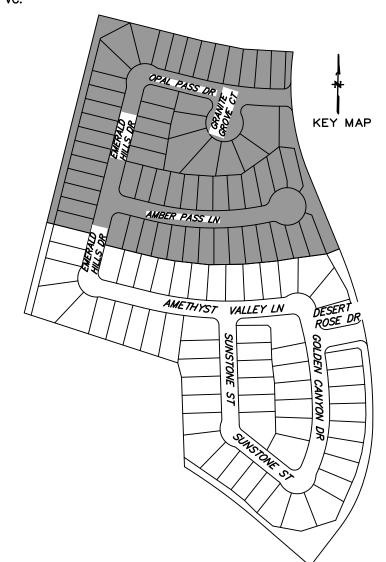
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SANITARY SEWER NOTE ALL GRAVITY SANITARY SEWER PIPE SHALL BE SDR 26



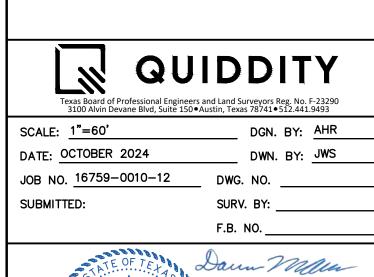
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NO. DATE REVISIONS APP.

BRAZORIA COUNTY MUD NO. 82 BARZORIA COUNTY, TEXAS

ASHLAND SECTIONS 1 & 2 GENERAL CONSTRUCTION LAYOUT

GRADING PLAN II



DARREN J. MCAFEE

137808

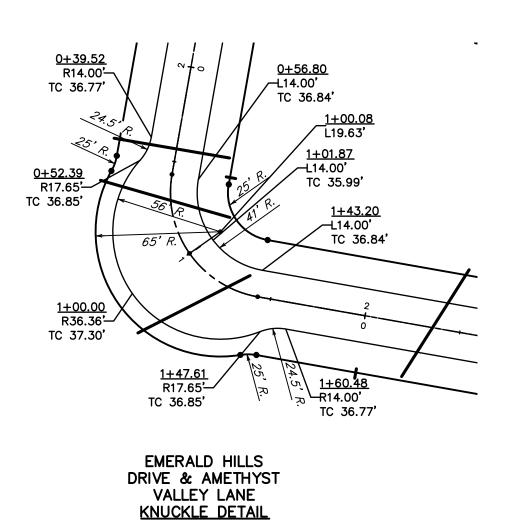
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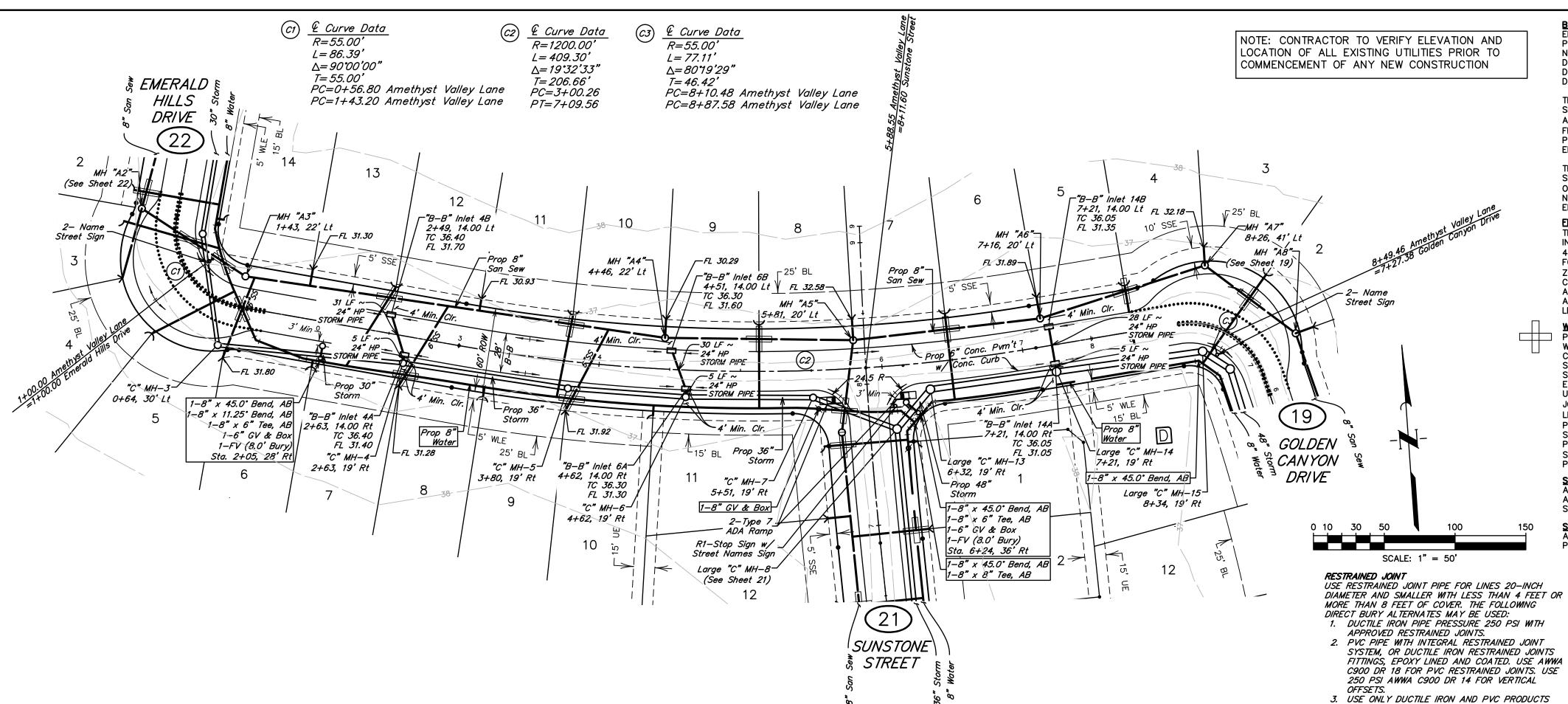
SHEET NO.

16 OF 30

Project: ASHLAND 5ECTION 1 Date: 8/30/2024 Job No: 16759-0010-12 System: 5-YEAR 5TORM By: AHR Checked By: CBJ	Flowline 5-yr HGL 100-yr HGL Outfall_1 20.77 32.25 34.80 Design criteria adheres to the Brazoria County Design Criteria Manual dated May 2022	5-yr HGL Starting Elevation = 2-yr WSE 100-yr HGL Starting Elevation = 25-yr WSE Region 1 Design Storm = 2-YEAR STORM 5-YEAR STORM 10-YEAR STORM 25-YEAR STORM 100-YEAR STORM b = 57.44 58.019 57.515 52.78 46.316 d = 11.511 9.236 7.777 5.022 1.555 e = 0.754 0.712 0.676 0.618 0.533			
weight weight openants I 1B 1A I 1A 1 I 2 3 I 4B 4A IV 4A 4 IV 4A 5 IV 6B 6A V 6B 6A VI 6A 6 VI 9B 9A VII 9A 9 J 10 11 IX 12A 12 X 12A 12 X 12A 14 XI 14A 14	a.r.b	114 124 <th>Dute 13/2002 / 3/20 2.12 2.12 2.12 2.12 2.12 Colspan="2">Dute 12/2002 / 200 Dute 12/2002 / 200 <th col<="" th=""><th>28.20 28.60 1.56 0.03 0.04 32.75 32.75 32.70 0.10 0.11 62.90 63.16 63.16 63.17 1200 28.00 28.00 1.56 0.00 0.01 32.70 21.16 0.10</th></th></th>	Dute 13/2002 / 3/20 2.12 2.12 2.12 2.12 2.12 Colspan="2">Dute 12/2002 / 200 Dute 12/2002 / 200 <th col<="" th=""><th>28.20 28.60 1.56 0.03 0.04 32.75 32.75 32.70 0.10 0.11 62.90 63.16 63.16 63.17 1200 28.00 28.00 1.56 0.00 0.01 32.70 21.16 0.10</th></th>	<th>28.20 28.60 1.56 0.03 0.04 32.75 32.75 32.70 0.10 0.11 62.90 63.16 63.16 63.17 1200 28.00 28.00 1.56 0.00 0.01 32.70 21.16 0.10</th>	28.20 28.60 1.56 0.03 0.04 32.75 32.75 32.70 0.10 0.11 62.90 63.16 63.16 63.17 1200 28.00 28.00 1.56 0.00 0.01 32.70 21.16 0.10
XVII 21A 21 21 Outfall_1	0.81 1.62 0.60 1.0 5.99 10.36 5.82 10.07 15.06 5 24 2.00 0.013 16.50 0.60 9.9 5.17 8.88 51.17 87.91 20.62 117 60 0.013 16.50 0.60 9.9 5.17 8.88 51.17 87.91 20.62 117 60 0.10 0.013	31.99 10.18 0.10 9.71 30.70 30.60 1.85 0.07 0.00 32.70 32.30 35.20 3.20 0.20 0.01 34.95 34.94 35.70 82.36 4.19 0.12 2 20.89 20.77 2.61 0.04 0.05 32.30 32.25 35.30 4.48 0.11 0.13 34.94 34.80 35.80			

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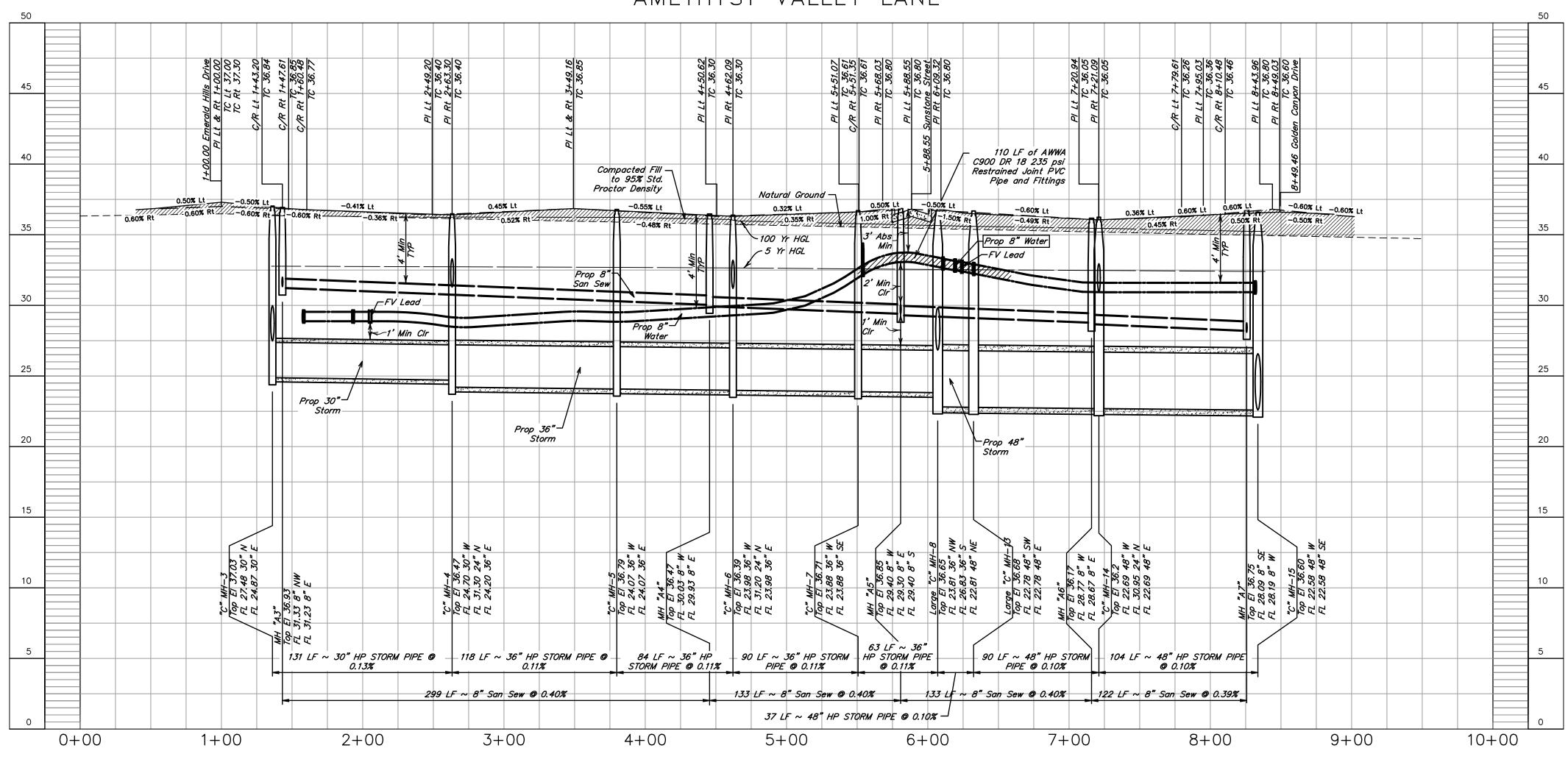


Special Geotechnical Note For Utilities under Cul-De-Sac and/or Knuckles

subgrade

All utilities under pavement in Cul-De-Sac and/or Knuckles to be backfilled with cement stabilized sand up to pavement

1"=50'



K: \16759 \16759 - 0010 - 12 Ashland - Phase 1A - WS&D \2 Design Phase \CAD \Plans \200 - Amethyst Valley - 16759 - 0010 - 12.dwg Oct 01,2024 - 8:21am ar1

AMETHYST VALLEY LANE

C900 DR 18 FOR PVC RESTRAINED JOINTS. USE

LISTED ON OCE APPROVED PRODUCTS LIST AND/OR IN ACCORDANCE WITH CITY STANDARD SPECIFICA TIONS.

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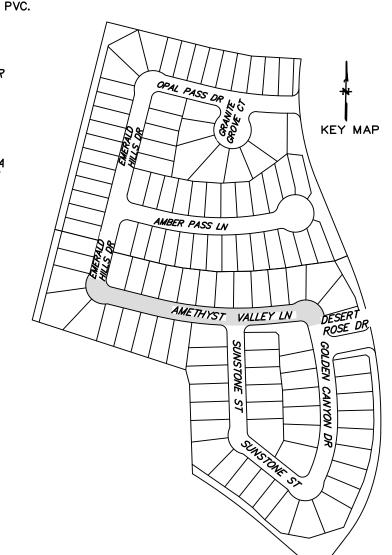
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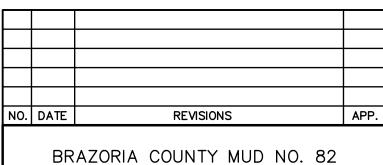
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BARZORIA COUNTY, TEXAS

ASHLAND SECTIONS 1 & 2

AMETHYST VALLEY LANE STA 0+00.00 TO STA 9+49.03 QUIDDITY Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290 3100 Alvin Devane Blvd, Suite 150●Austin. Texas 78741●512 441 9493 SCALE: 1"=50' H. <u>1"=5' V.</u> DGN. BY: <u>AHR</u> DATE: OCTOBER 2024 DWN. BY: JWS JOB NO. 16759-0010-12 DWG. NO. SUBMITTED: SURV. BY: F.B. NO. _

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DARREN J. MCAFEE 137808

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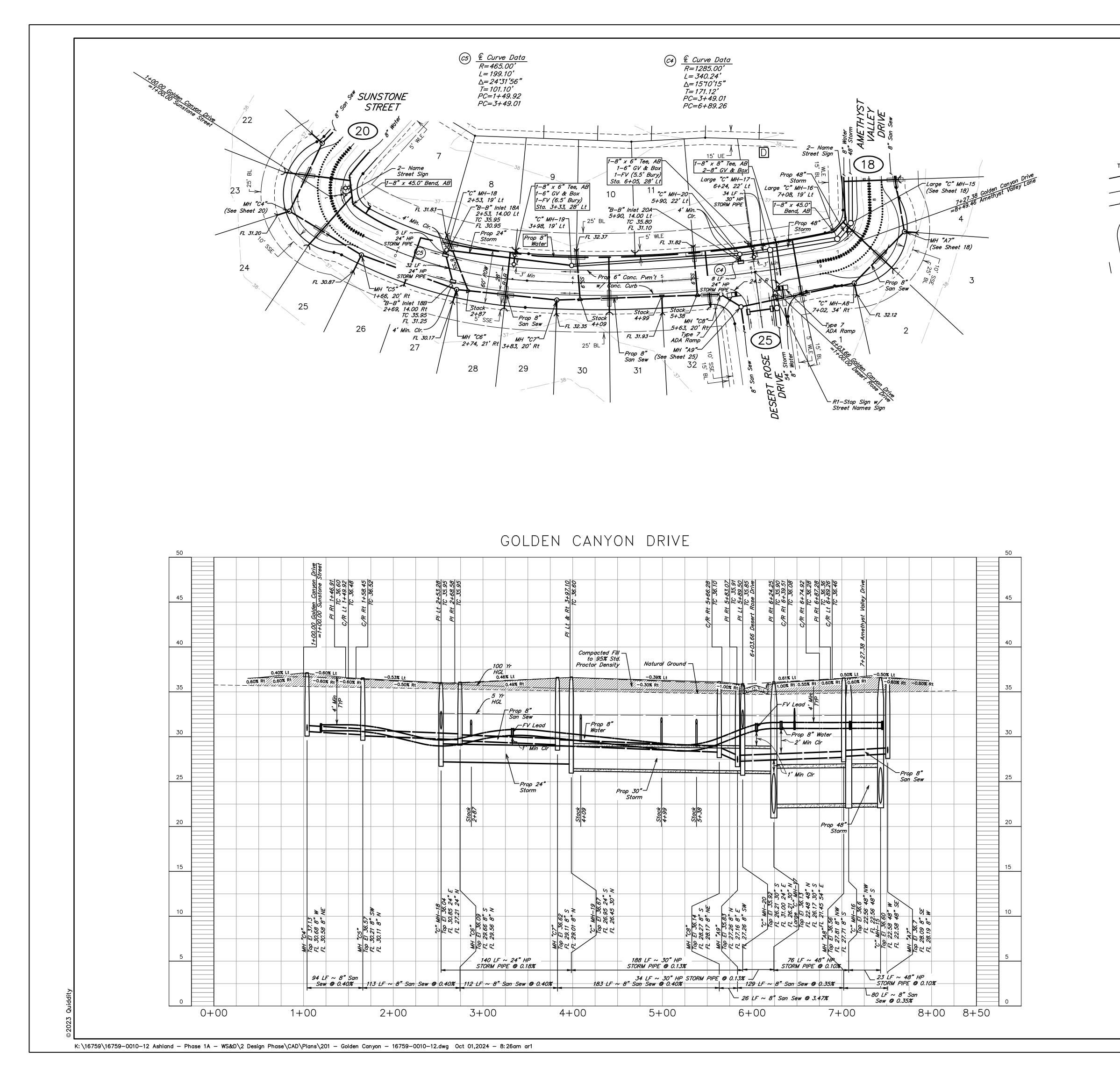
Dann Maller

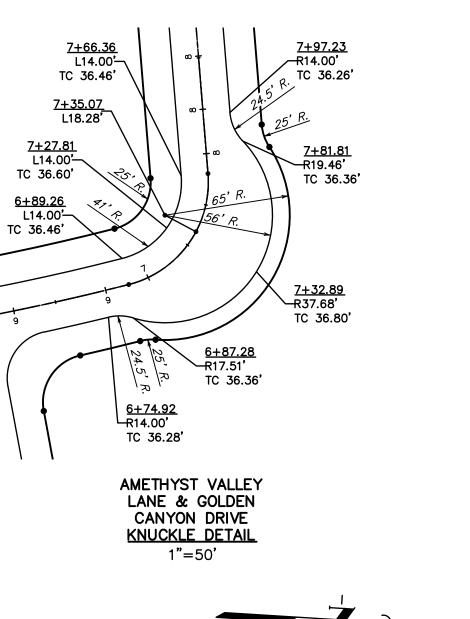
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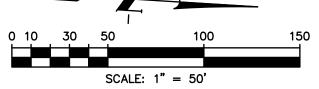
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OF 30

10/1/2024







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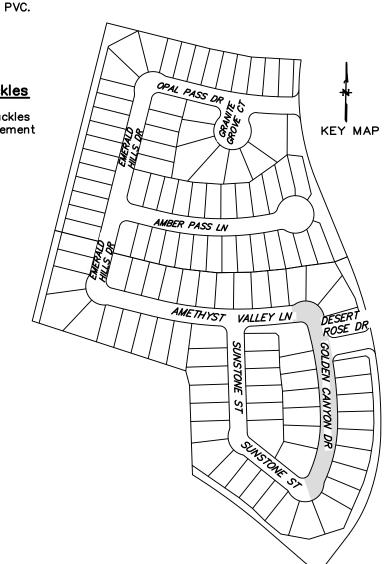
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 NO. DATE
 REVISIONS

BRAZORIA COUNTY MUD NO. 82 BARZORIA COUNTY, TEXAS

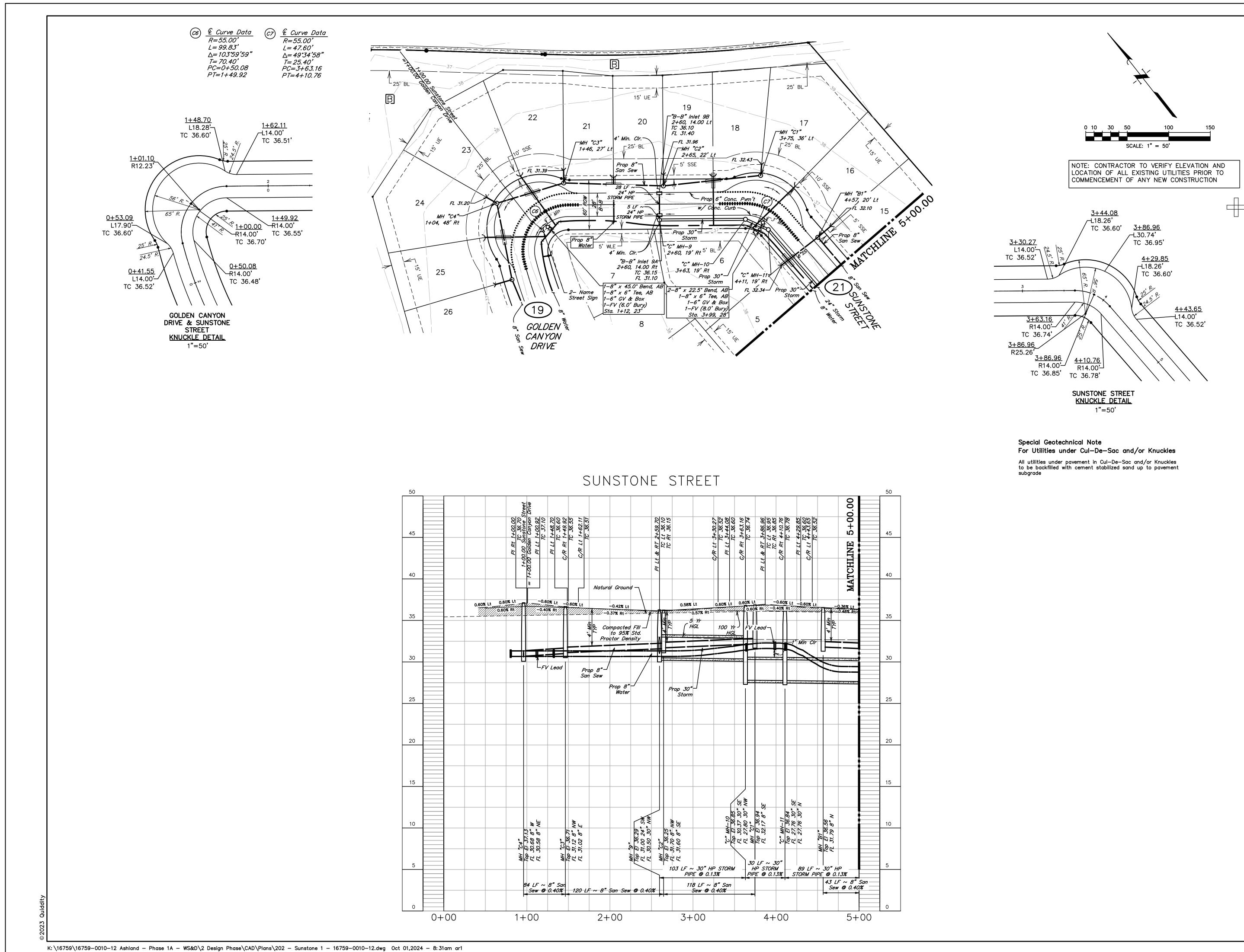
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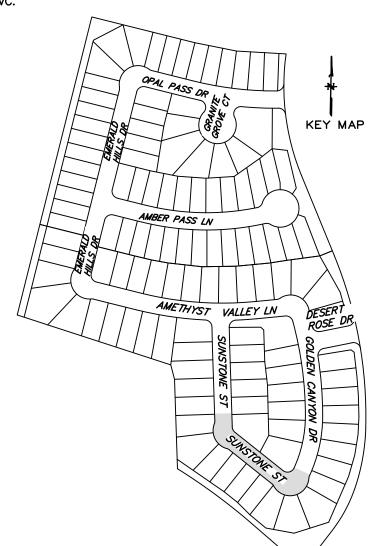
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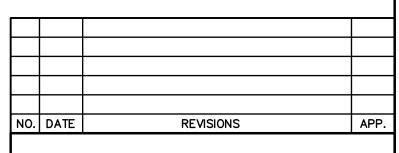
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BRAZORIA COUNTY MUD NO. 82 BARZORIA COUNTY, TEXAS

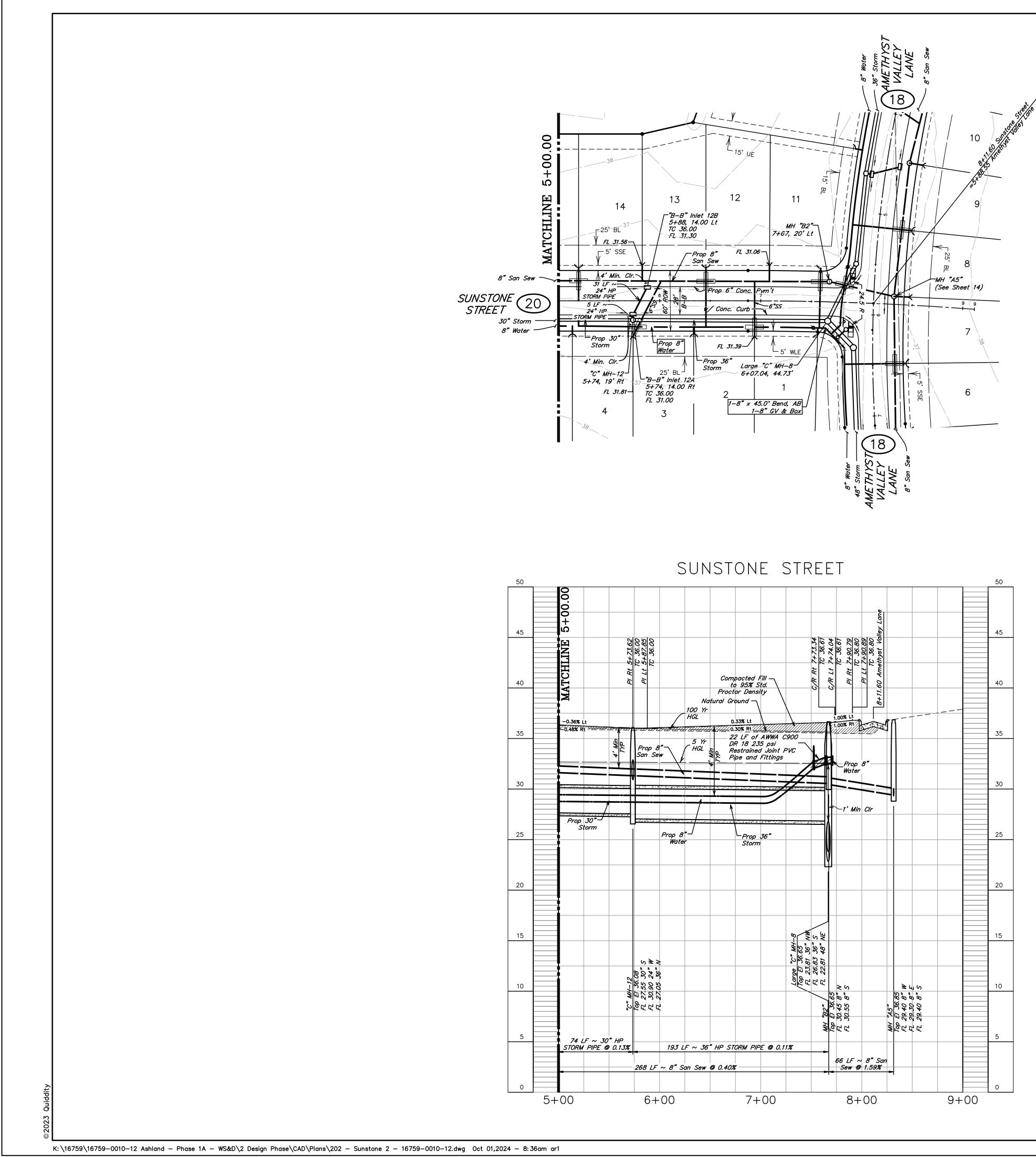
ASHLAND SECTIONS 1 & 2

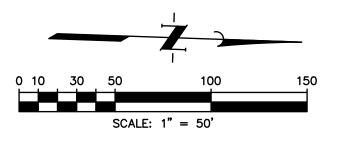
SUNSTONE STREET 1 OF 2 STA 0+00.00 TO STA 5+00.00 QUIDDITY Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290 3100 Alvin Devane Blvd, Suite 150•Austin, Texas 78741•512.441.9493 SCALE: <u>1"=50' H. 1"=5' V.</u> DGN. BY: <u>AHR</u> DATE: OCTOBER 2024 DWN. BY: JWS JOB NO. <u>1</u>6759–0010–12 DWG. NO. SUBMITTED: SURV. BY: F.B. NO. __ Dawn Malla * 10/1/2024 é * :

SHEET NO. 20 OF 30

DARREN J. MCAFEE

137808





NOTE: CONTRACTOR TO VERIFY ELEVATION AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY NEW CONSTRUCTION

BENCHMARK ELEVATIONS WERE OBTAINED WITH REAL TIME KINETIC GLOBAL POSITIONING SATELLITE EQUIPMENT AND ARE BASED ON NATIONAL GEODETIC SURVEY MONUMENT DESIGNATION: DG6956 DWI1 CLUTE COOP CORS ARP DL3490 TXBC BAY CITY CORS ARP DH3614 TXLM LA MARQUE CORS ARP

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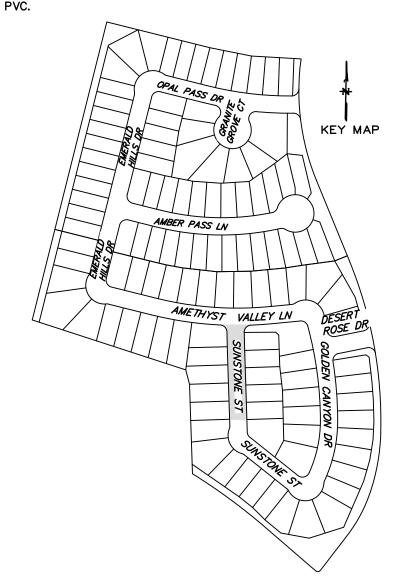
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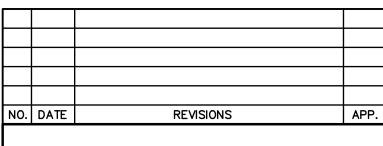
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BRAZORIA COUNTY MUD NO. 82 BARZORIA COUNTY, TEXAS

ASHLAND SECTIONS 1 & 2

SUNSTONE STREET 2 OF 2 STA 5+00.00 TO STA 9+11.60 QUIDDITY Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290 3100 Alvin Devane Blvd, Suite 150●Austin, Texas 78741●512.441.9493 SCALE: <u>1"=50' H. 1"=5' V.</u> DGN. BY: <u>AHR</u> DATE: OCTOBER 2024 DWN. BY: JWS

Dawn Malla

SHEET NO. **21** OF 30

10/1/2024

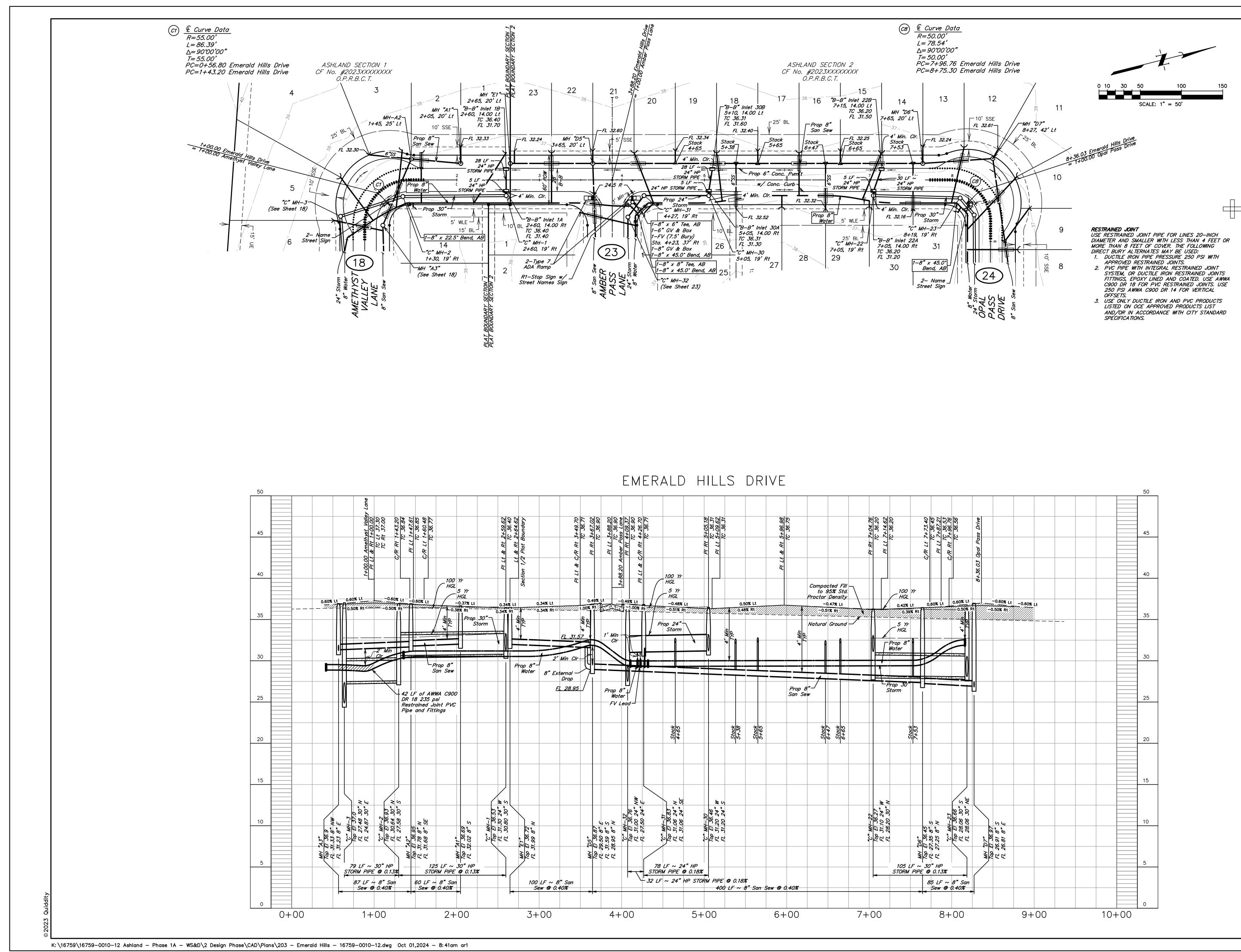
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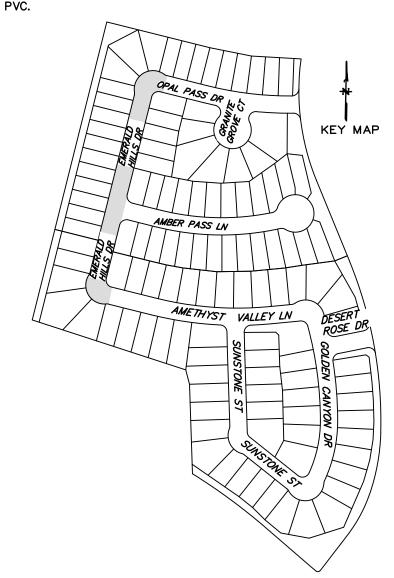
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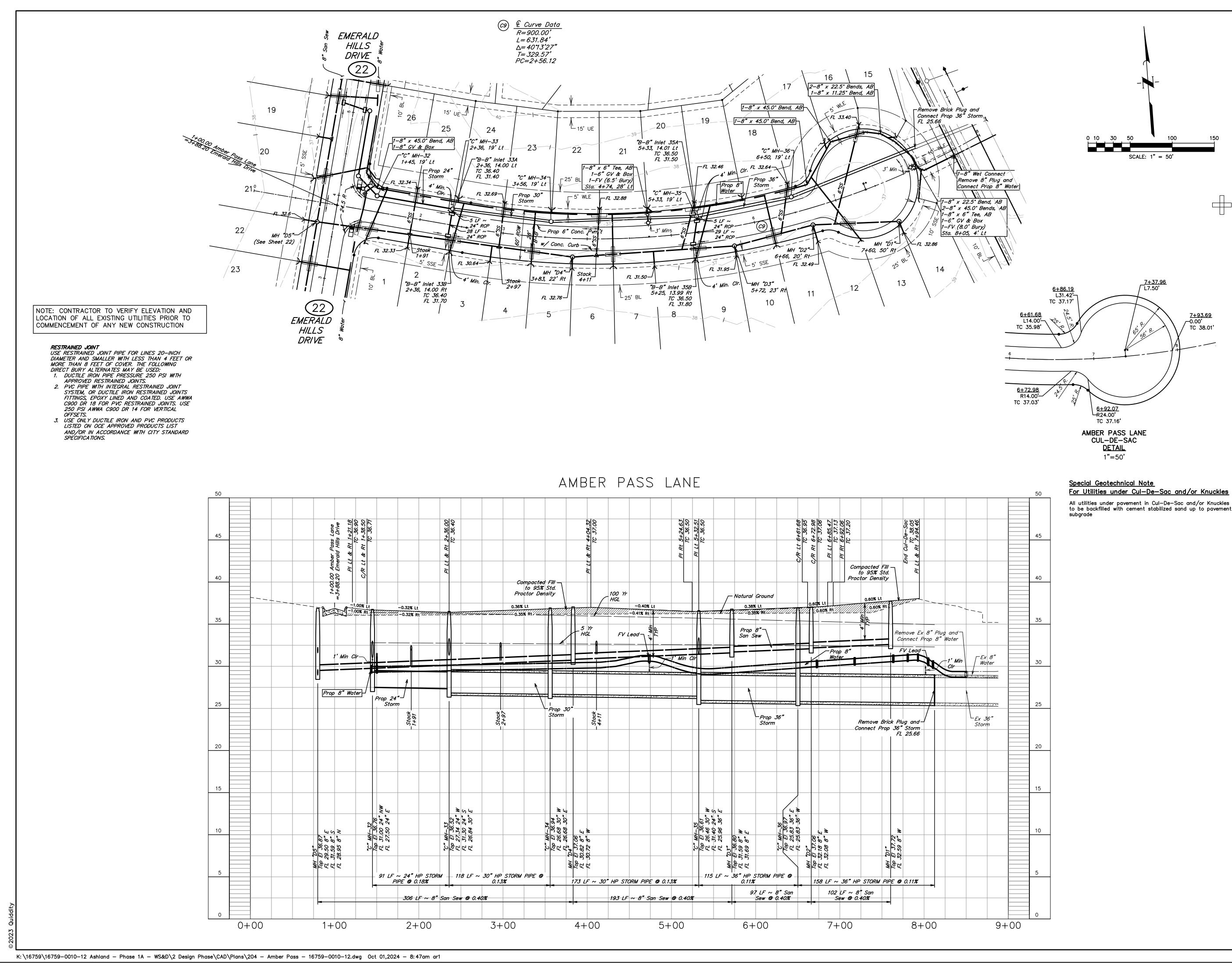
> > > ASHLAND SECTIONS 1 & 2

EMERALD HILLS DRIVE STA 0+00.00 TO STA 9+36.03 QUIDDITY Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23290 3100 Alvin Devane Blvd, Suite 150●Austin. Texas 78741●512 441 9493 SCALE: 1"=50' H. <u>1"=5' V.</u> DGN. BY: <u>AHR</u> DATE: OCTOBER 2024 DWN. BY: JWS JOB NO. 16759-0010-12 DWG. NO. SUBMITTED: SURV. BY: F.B. NO. Dann Maller 10/1/2024 \bigstar DARREN J. MCAFEE

SHEET NO.

22 OF 30

137808



	mpacted Fill –	PI LT & RT 4+04.32 TC 37.00		PI Rt 5+24.63 TC 36.50 PI Lt 5+32.51			C/R Lt 6+61.68 1C 36.95	C/R Rt 6+72 C/R Rt 6+72 PI Lt 6+85 PI Rt 6+92 TC 37 TC 37	Cted Fill - 200 Density	
Pro	to 95% Std. ctor Density	5 Yr HGL	100 Yr HGL -0.40% Lt -0.41% Rt 2//2/ FV Lead			Natural Ground 0.38% Lt 2/2//6/35% % Prop 8"- San Sew		0.60% Lt	60% Lt 0.60% Rt Remove Ex 8" Connect Prop FV Lead	Plug and 8" Water
Stack 2+97	l Prop 30 Storm	Stack		1' Min Cr		-Prop Storm	36"	Water Water Rem		1' Min Cir
		76 3" E W		MH-35	El 36.61 26.46 30" W 31.40 24" S 25.96 36" E	2 LU 2 LU	" MH-36 5 El 36.97 25,83 36" W 25,83 36" W			
30" HP STORM 0.13%	い い い い い い い い い い い い い い い い い い い	MH "D4" Top El <u>3</u> 7 FL 30.82 FL 30.72	0" HP STORM PIPE @ 0 193 LF ~ 8" San Se	0.13%		99999999999999999999999999999999999999		2 8 80 3 80 3 2 12 12 158 LF ~ 36" HP ST 102 LF ~ 8" So Sew @ 0.40%	05'72E 14 	

All utilities under pavement in Cul-De-Sac and/or Knuckles to be backfilled with cement stabilized sand up to pavement

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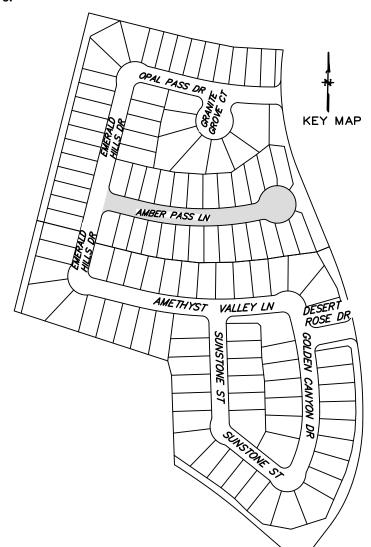
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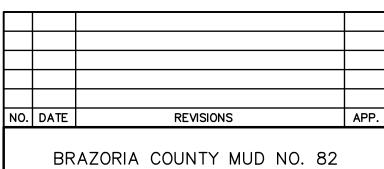
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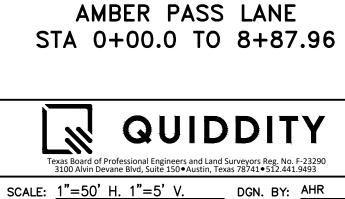
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BARZORIA COUNTY, TEXAS

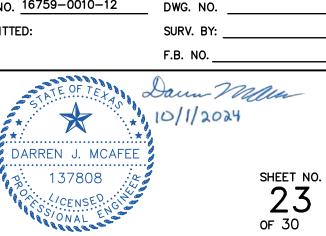
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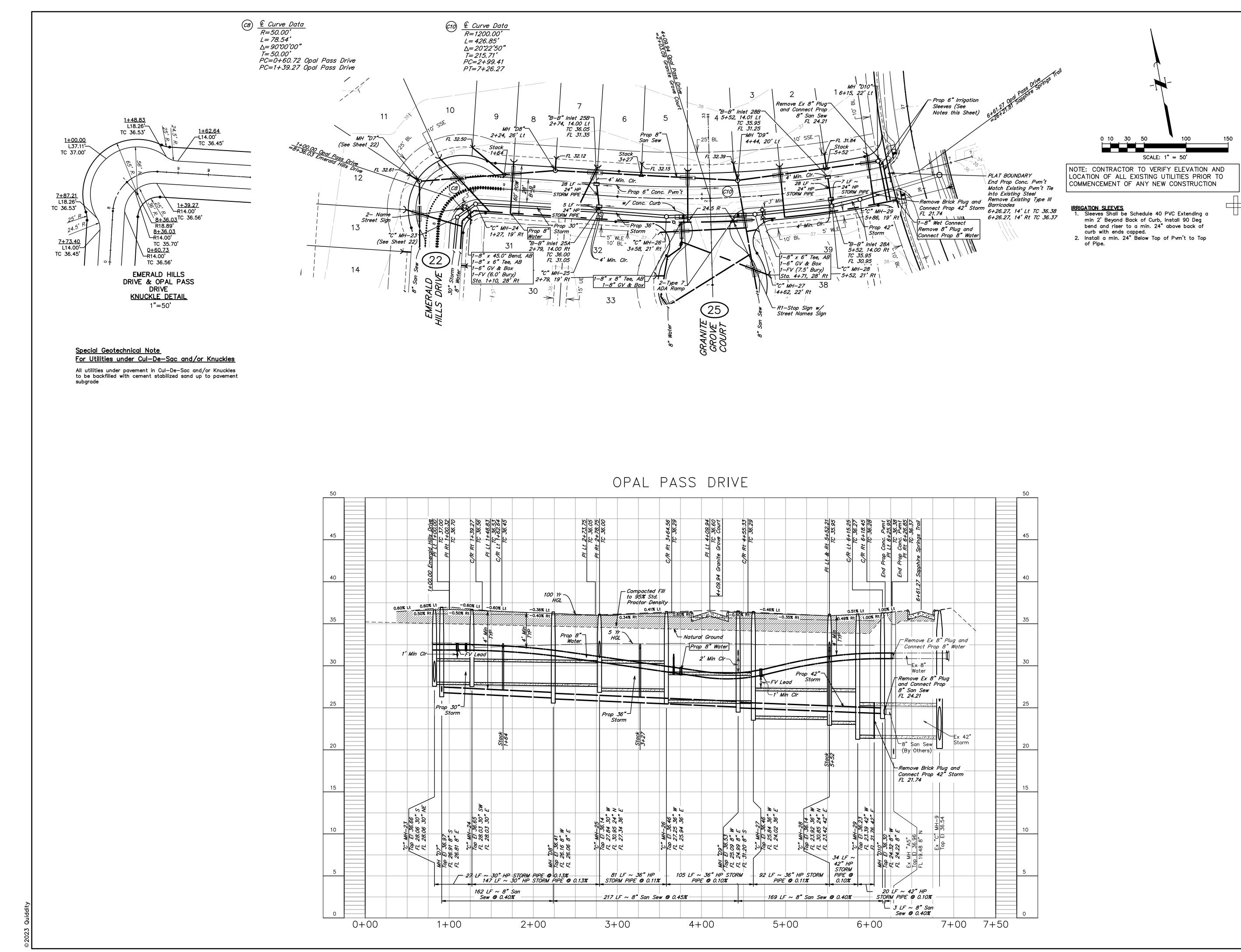


DWN. BY: JWS

DATE: OCTOBER 2024 JOB NO. <u>16759</u>0010-12 SUBMITTED:

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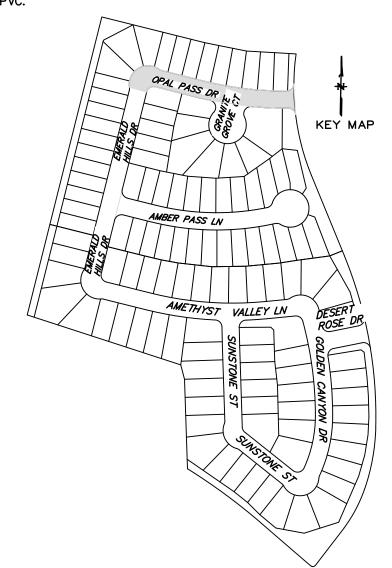
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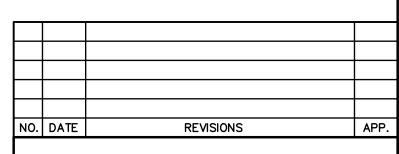
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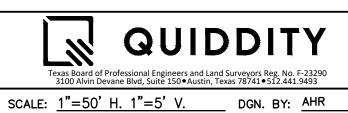




BRAZORIA COUNTY MUD NO. 82 BARZORIA COUNTY, TEXAS

ASHLAND SECTIONS 1 & 2

OPAL PASS DRIVE STA 0+00.00 TO 7+26.27



DATE: OCTOBER 2024 JOB NO. 16759-0010-12 SUBMITTED:

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DARREN J. MCAFEE

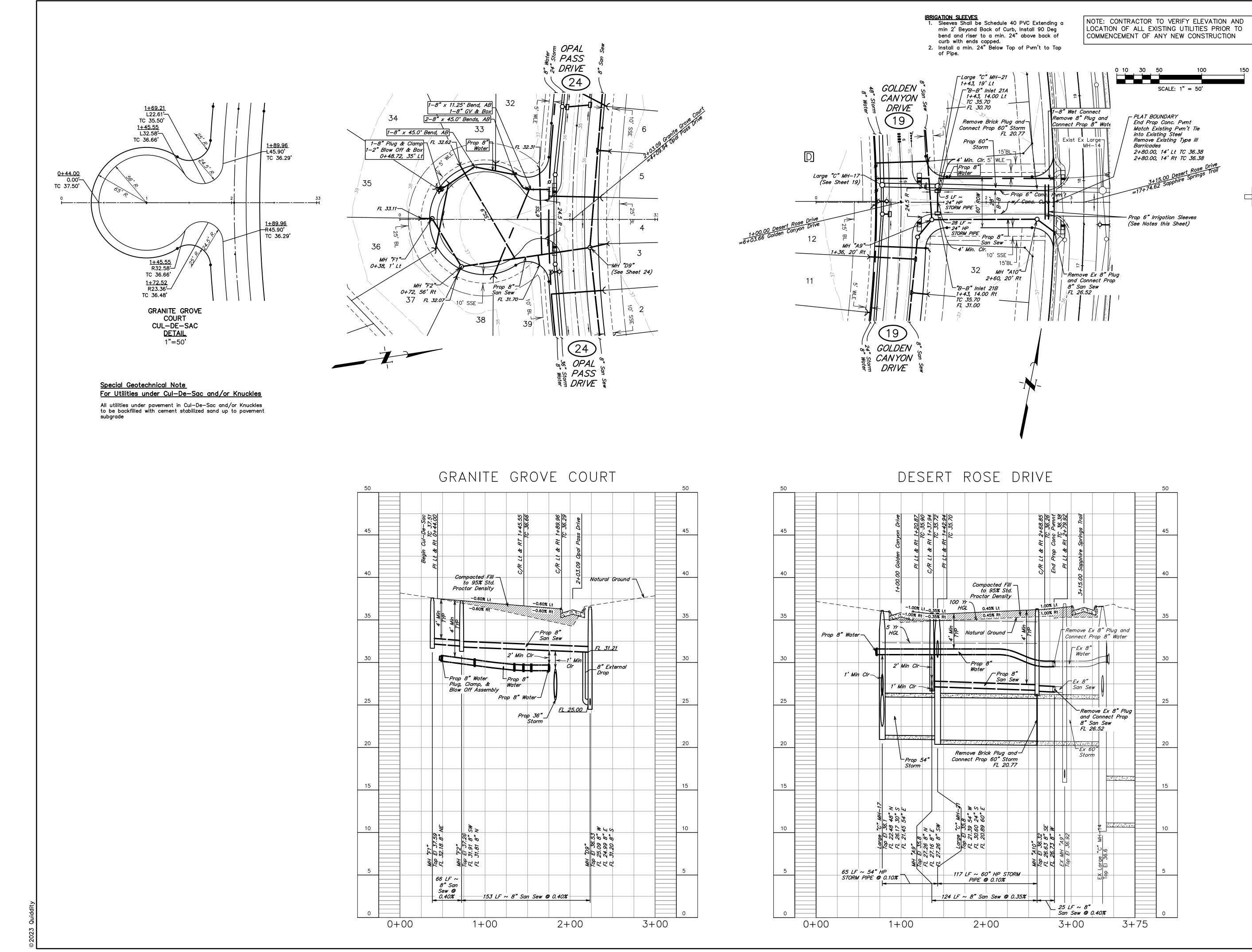
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10/1/2024

SHEET NO.

24 OF 30



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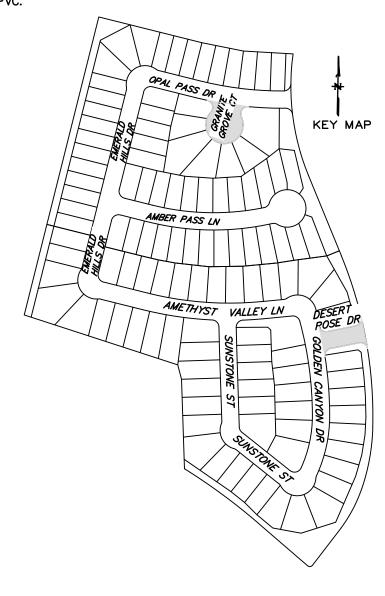
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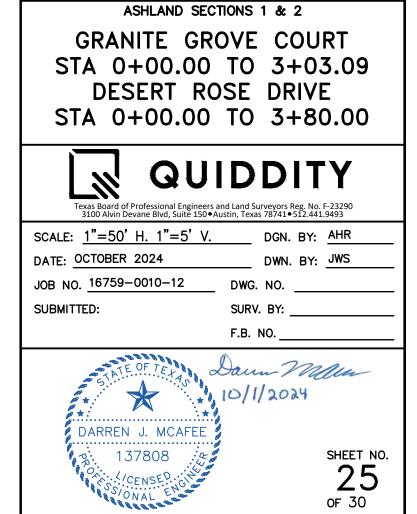
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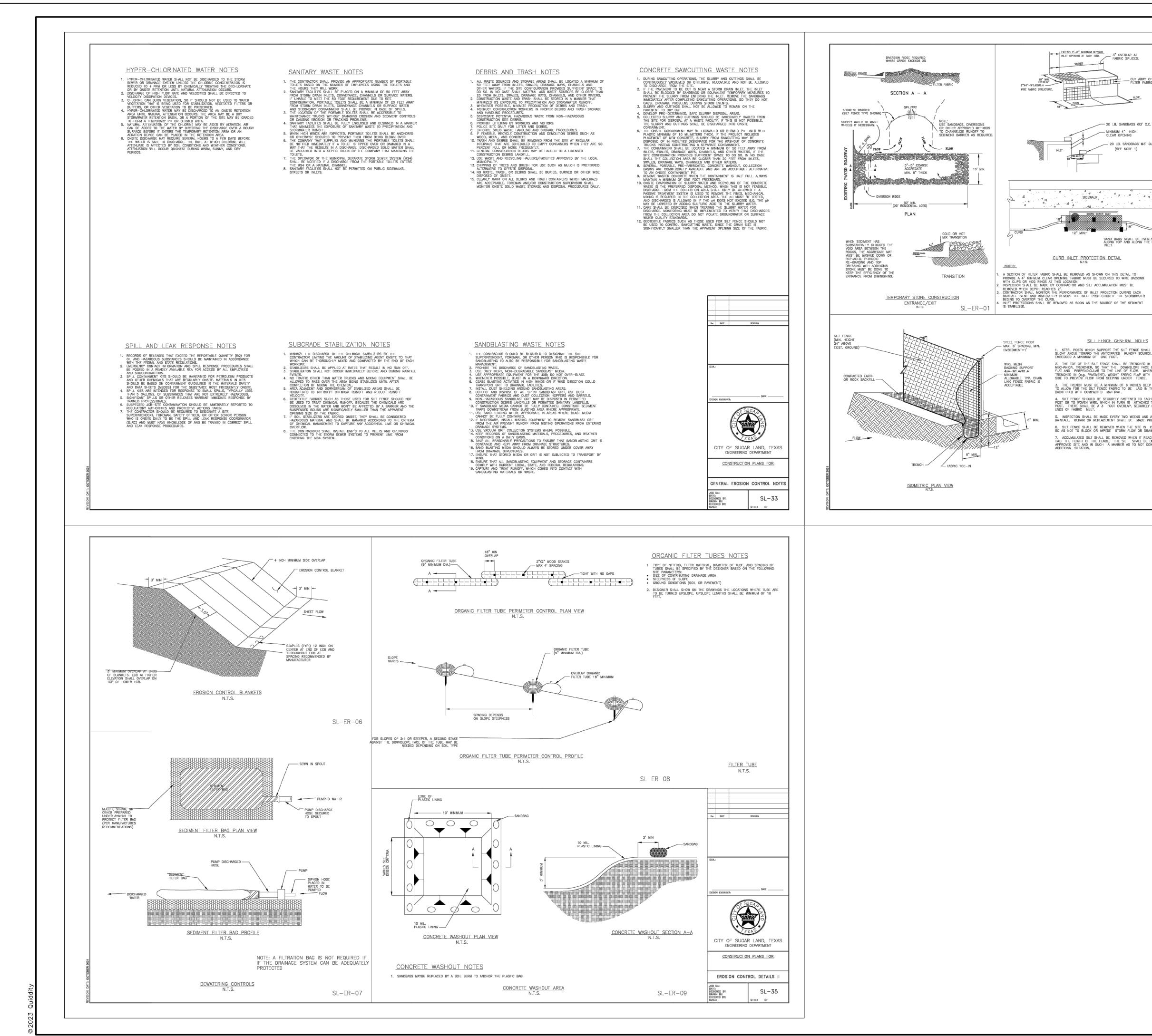
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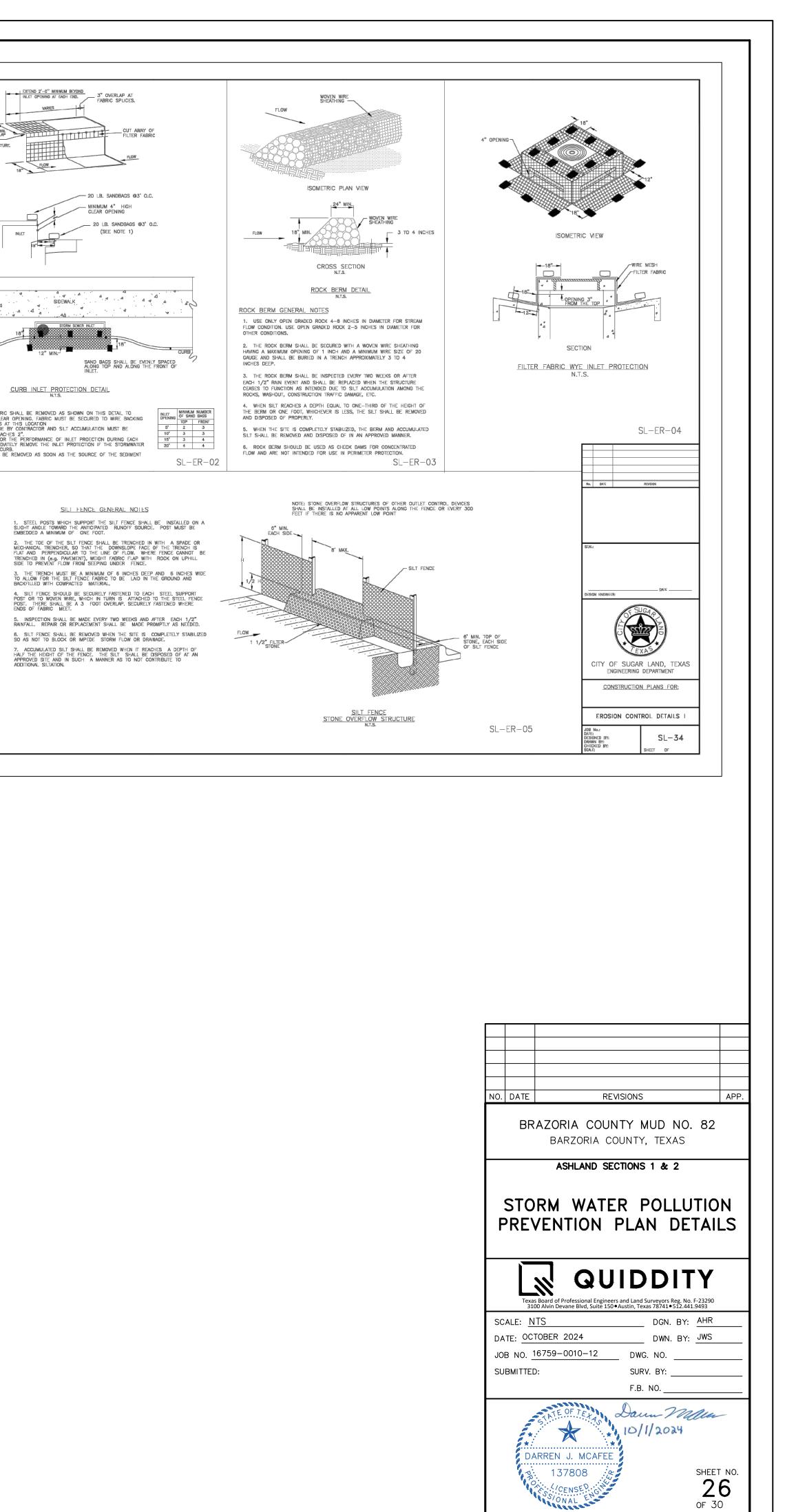
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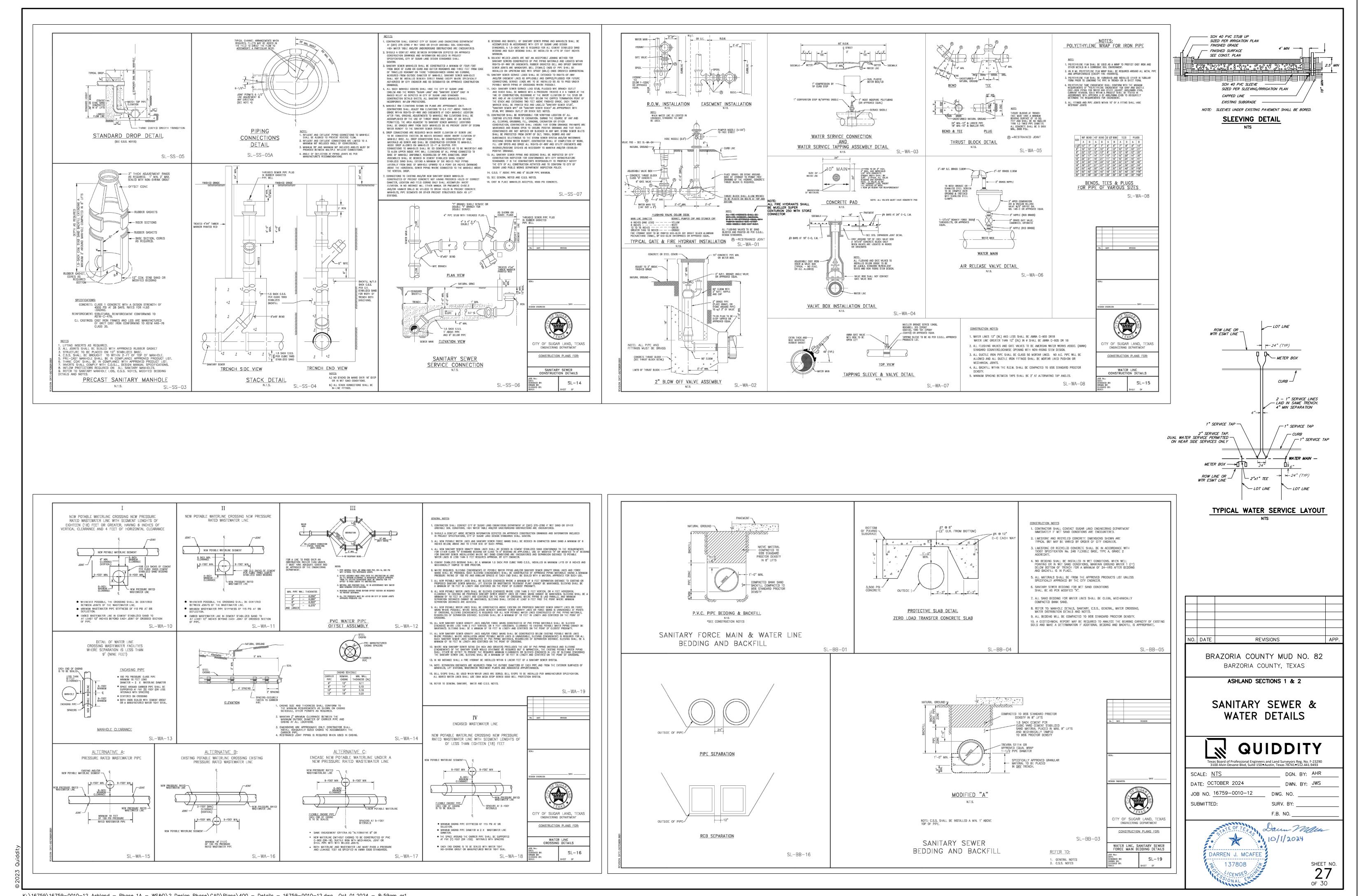


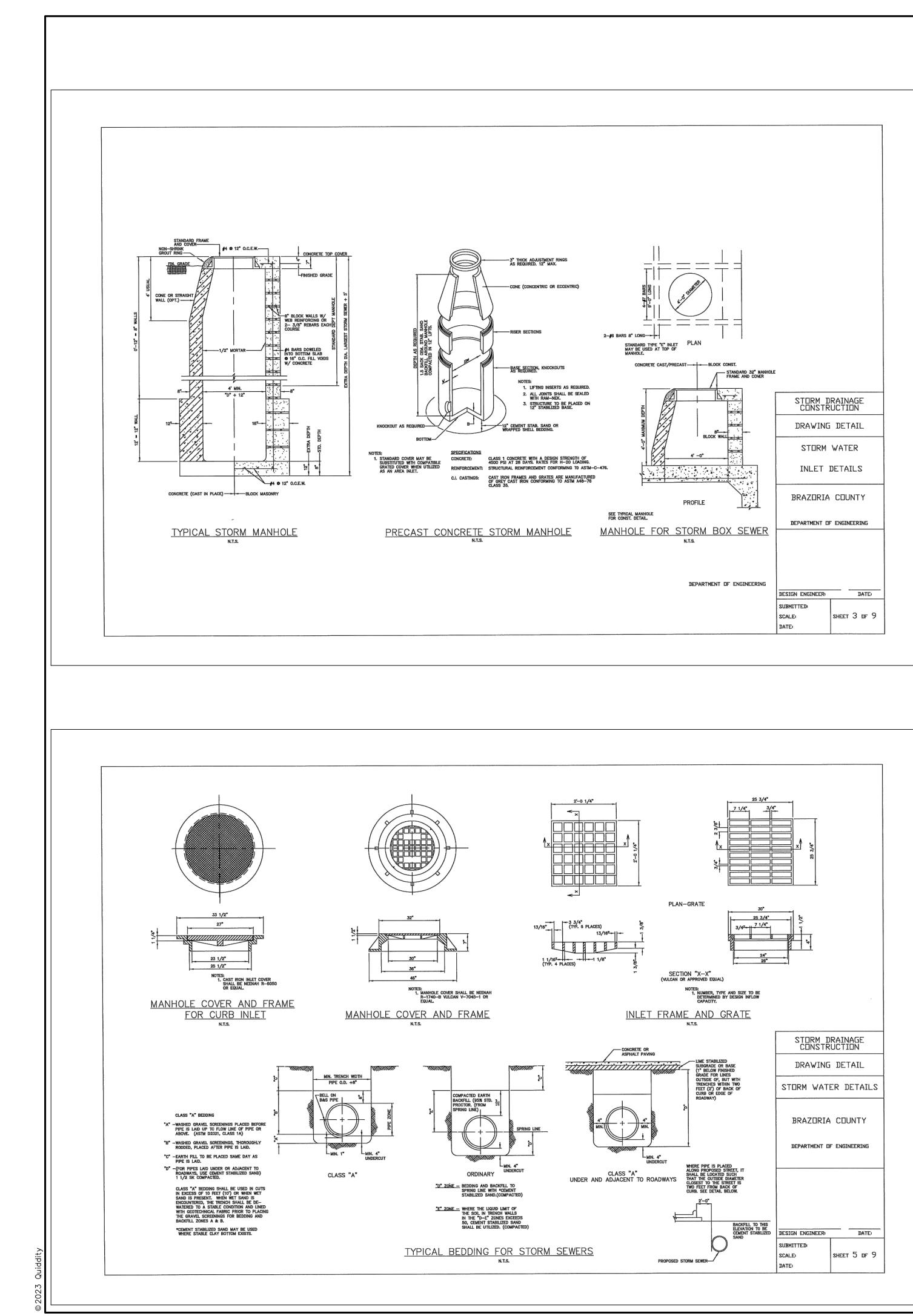
APP. NO. DATE REVISIONS BRAZORIA COUNTY MUD NO. 82 BARZORIA COUNTY, TEXAS

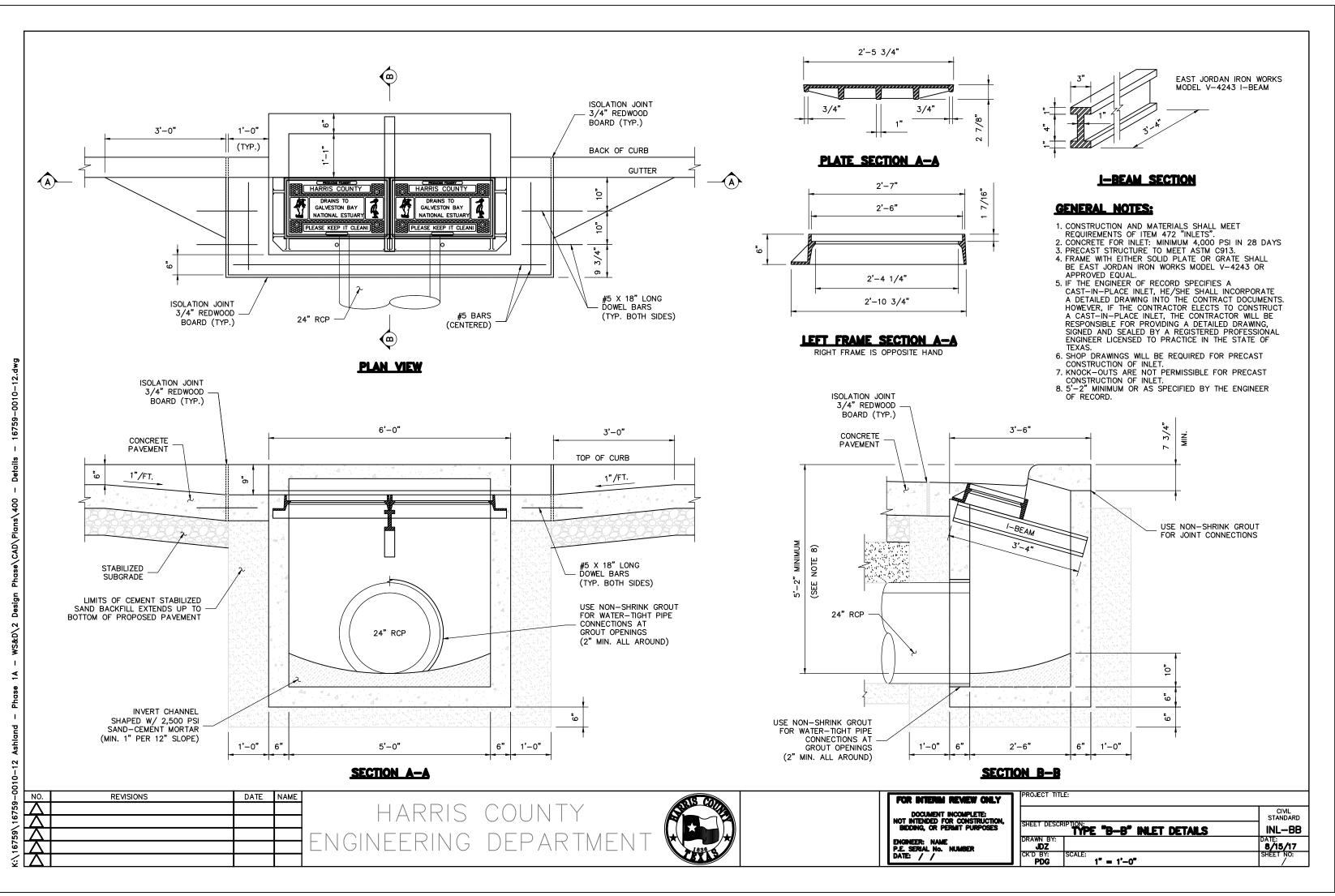


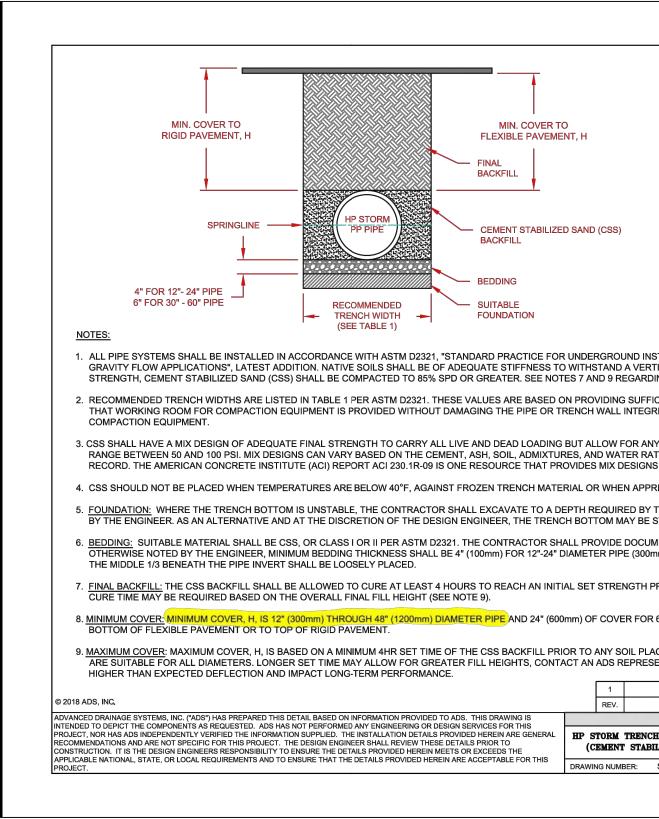




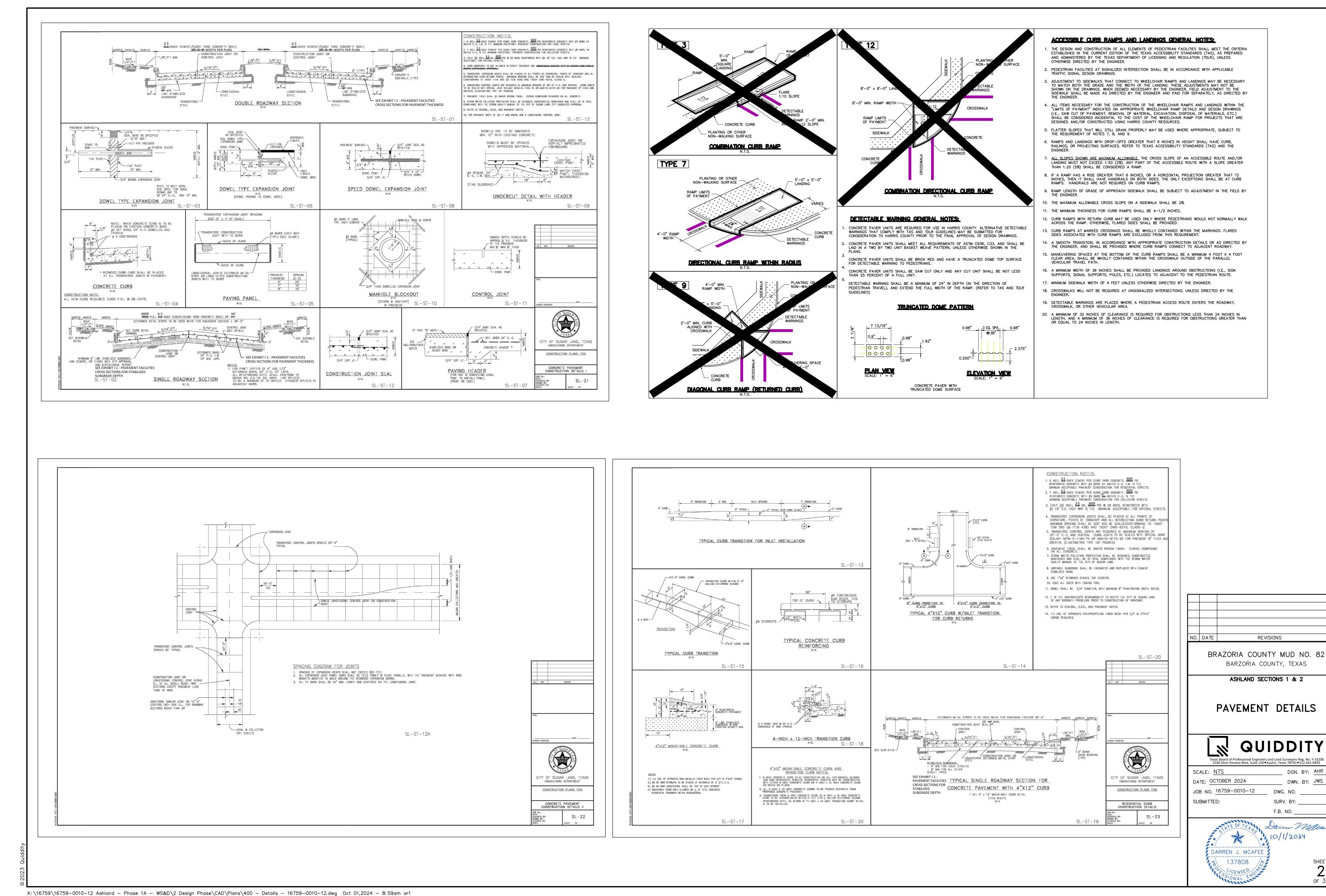


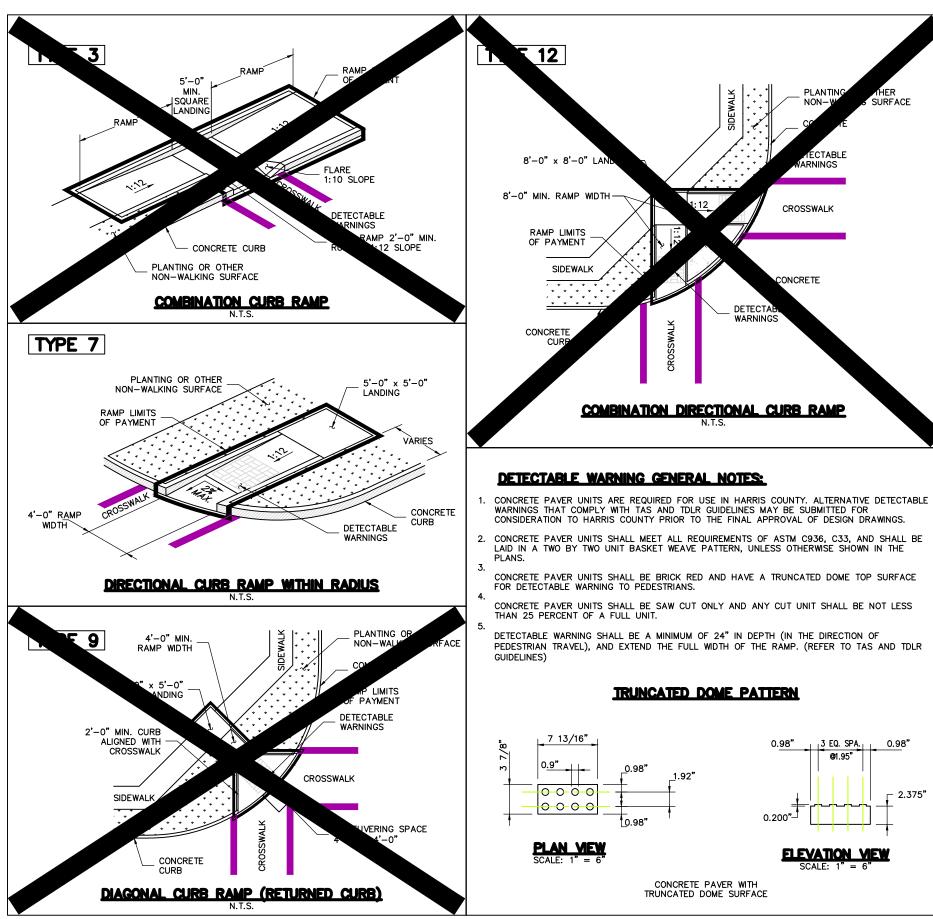






(TYP. BOTH SIDES)		
	LEFT FRAME SECTION A-A RIGHT FRAME IS OPPOSITE HAND	A CAST-IN-PLACE INLET, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING A DETAILED DRAWING, SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS.
	NUTLE FRAME IS OFFOSILE MAND	 6. SHOP DRAWINGS WILL BE REQUIRED FOR PRECAST CONSTRUCTION OF INLET. 7. KNOCK-OUTS ARE NOT PERMISSIBLE FOR PRECAST CONSTRUCTION OF INLET. 8. 2" AUMUMUM OF AS SECCIER BY THE ENCINEER
	ISOLATION JOINT 3/4" REDWOOD BOARD (TYP.)	8. 5'-2" MINIMUM OR AS SPECIFIED BY THE ENGINEER OF RECORD.
3'-0"		<u>3,-9, K</u> NM <u>14, K</u> NM <u>14, K</u> NM
1"/FT.		
2020202020202020	MINIMUM IOTE 8)	USE NON-SHRINK GROUT FOR JOINT CONNECTIONS
#5 X 18" LONG – DOWEL BARS (TYP. BOTH SIDES)	5'-2" MININ	
USE NON-SHRINK GROUT FOR WATER-TIGHT PIPE - CONNECTIONS AT	24" RCP	
GROUT OPENINGS (2" MIN. ALL AROUND)		
		e"
ະ ພິ	USE NON-SHRINK GROUT FOR WATER-TIGHT PIPE	
t	CONNECTIONS AT 6" GROUT OPENINGS 1'-0" 6" (2" MIN. ALL AROUND)	
Y See Com	FOR INTERIM REVIEW ONLY Document incomplete: Not intended for construction Bidding, or permit purposes	CIVIL
TMENT	ENGINEER: NAME P.E. SERIAL NO. NUMBER DATE: //	DRAWN BY: Date: BA15/17 JDZ 8/15/17 CK'D BY: SCALE: PDG 1" = 1'-0"
TABLE 1 RECOMMENDED MINIMUM TRENCH WIE PIPE DIAM. MIN. TRENCH WIDTH 12" 30" (300mm) (762mm) 15" 34"		
RECOMMENDED MINIMUM TRENCH WIE PIPE DIAM. MIN. TRENCH WIDTH 12" 30" (300mm) (762mm) 15" 34" (375mm) (864mm) 18" 39" (450mm) (991mm) 24" 48" (600mm) (1219mm) 30" 56" (750mm) (1422mm) 36" 64" (900mm) (1626mm) 42" 72" (1050mm) (2032mm) 60" 96" (1200mm) (2438mm)	EWERS AND OTHER UE TO THE FINAL SET HE TRENCH WALL, SUCH E BASED ON THE PRESSIVE STRENGTHS	NO. DATE REVISIONS AF BRAZORIA COUNTY MUD NO. 82 BARZORIA COUNTY, TEXAS ASHLAND SECTIONS 1 & 2 STORM WATER DRAINAGE DETAILS
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RECOMMENDED MINIMUM TRENCH WIDTH IPIPE DIAM. MIN. TRENCH WIDTH 12" 30" 30" (300mm) (762mm) 15" 34" (375mm) (864mm) 18" 39" (450mm) (991mm) 24" 48" (600mm) (1219mm) 30" 56" (750mm) (1422mm) 36" 64" (900mm) (1626mm) 42" 72" (1050mm) (2032mm) 60" 96" (1500mm) (2032mm) 60" 96" (1500mm) (2438mm)	WERS AND OTHER UE TO THE FINAL SET HE TRENCH WALL, SUCH E BASED ON THE PRESSIVE STRENGTHS Y THE ENGINEER OF SOLL. RING PLACEMENT. MATERIAL AS SPECIFIED D ENGINEER. UNLESS 00mm) DIAMETER PIPE. EDMENT. ADDITIONAL DM TOP OF PIPE TO LL HEIGHTS UP TO 18FT AN 4HR MAY RESULT IN CHKO	BRAZORIA COUNTY MUD NO. 82 BARZORIA COUNTY, TEXAS ASHLAND SECTIONS 1 & 2 STORM WATER DRAINAGE DETAILS DETAILS DETAILS Texas Board of Professional Engineers and Land Surveyors Reg. No. F-23200 SCALE: <u>NTS</u> DATE: OCTOBER 2024 DWN. BY: <u>JWS</u> JOB NO. <u>16759-0010-12</u> SUBMITTED: SURV. BY: <u>F.B. NO.</u> DATE: OCTOBER 2024 DWG. NO. SUBMITTED: SURV. BY: <u>F.B. NO.</u>







- ESTABLISHED IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS), AS PREPARED
- 4. ALL ITEMS NECESSARY FOR THE CONSTRUCTION OF THE WHEELCHAIR RAMPS AND LANDINGS WITHIN THE "LIMITS OF PAYMENT" INDICATED ON APPROPRIATE WHEELCHAIR RAMP DETAILS AND DESIGN DRAWINGS (I.E., SAW CUT OF PAVEMENT. REMOVAL OF MATERIAL, EXCAVATION, DISPOSAL OF MATERIALS, ETC.) SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE WHEELCHAIR RAMP FOR PROJECTS THAT ARE
- 7. ALL SLOPES SHOWN ARE MAXIMUM ALLOWABLE. THE CROSS SLOPE OF AN ACCESSIBLE ROUTE AND/OR LANDING MUST NOT EXCEED 1:50 (2%). ANY PART OF THE ACCESSIBLE ROUTE WITH A SLOPE GREATER
- INCHES, THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. THE ONLY EXCEPTIONS SHALL BE AT CURB RAMPS. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. 9. RAMP LENGTH OF GRADE OF APPROACH SIDEWALK SHALL BE SUBJECT TO ADJUSTMENT IN THE FIELD BY
- 12. CURB RAMPS WITH RETURN CURB MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK

- 20. A MINIMUM OF 32 INCHES OF CLEARANCE IS REQUIRED FOR OBSTRUCTIONS LESS THAN 24 INCHES IN LENGTH, AND A MINIMUM OF 36 INCHES OF CLEARANCE IS REQUIRED FOR OBSTRUCTIONS GREATER THAN OR EQUAL TO 24 INCHES IN LENGTH.

REVISIONS

APP

DGN. BY: AHR

DWN. BY: JWS

Dann Mallen

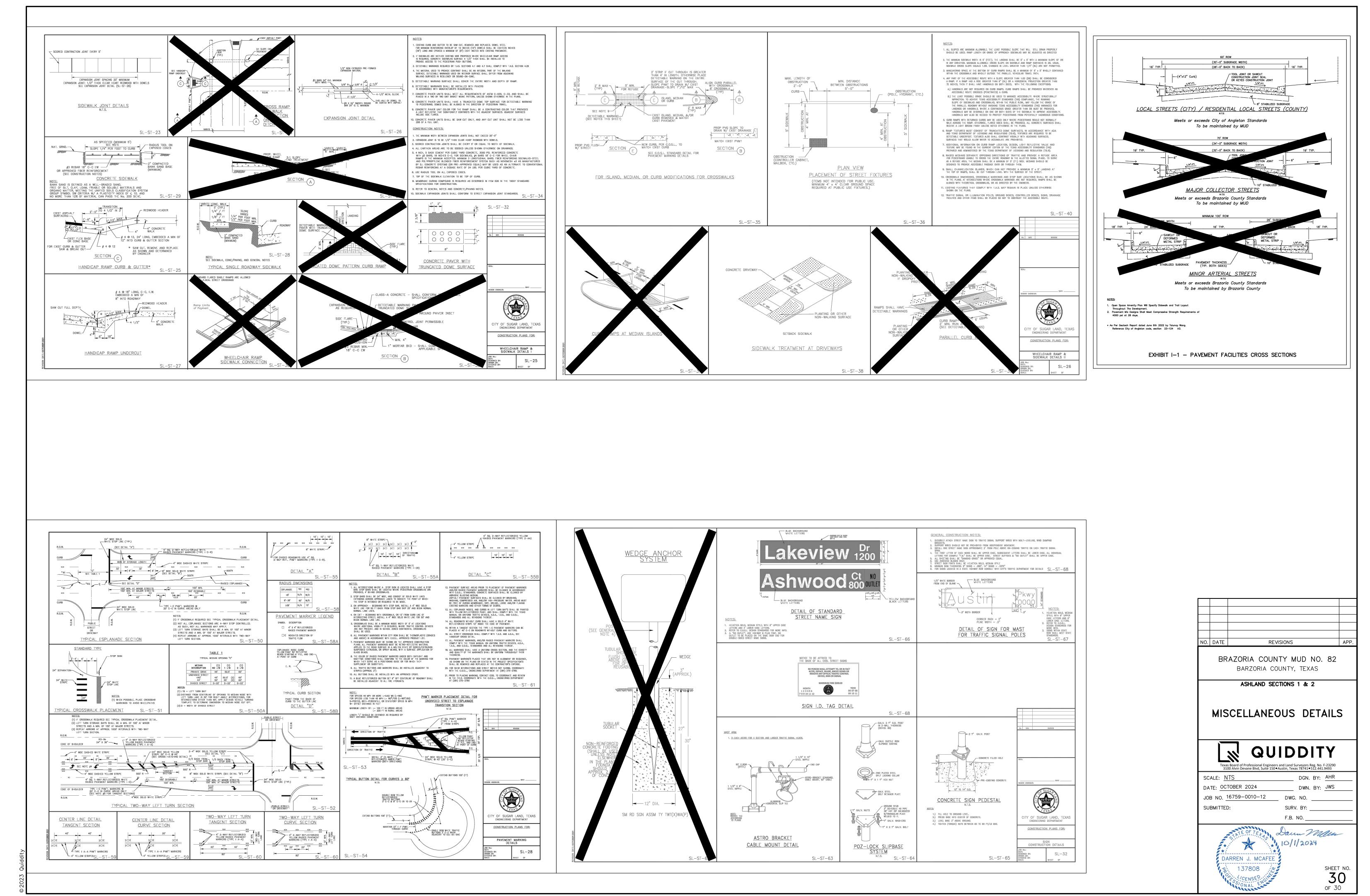
SHEET NO. 29 OF 30

DWG. NO.

SURV. BY:

10/1/2024

F.B. NO.



K: \16759 \16759 - 0010 - 12 Ashland - Phase 1A - WS&D \2 Design Phase \CAD \Plans \400 - Details - 16759 - 0010 - 12.dwg Oct 01,2024 - 9:00am ar1