

ORIGINAL LAYOUT SIZE - 22X34

6/25/2025 9:03:14 AM
Z:\13300\13357 BURLESON-GLO CDBG MIT MOD\04 CAD\CD-13357\MALLARD_DR\1 -COVER & NOTES.DWG

JGORDON

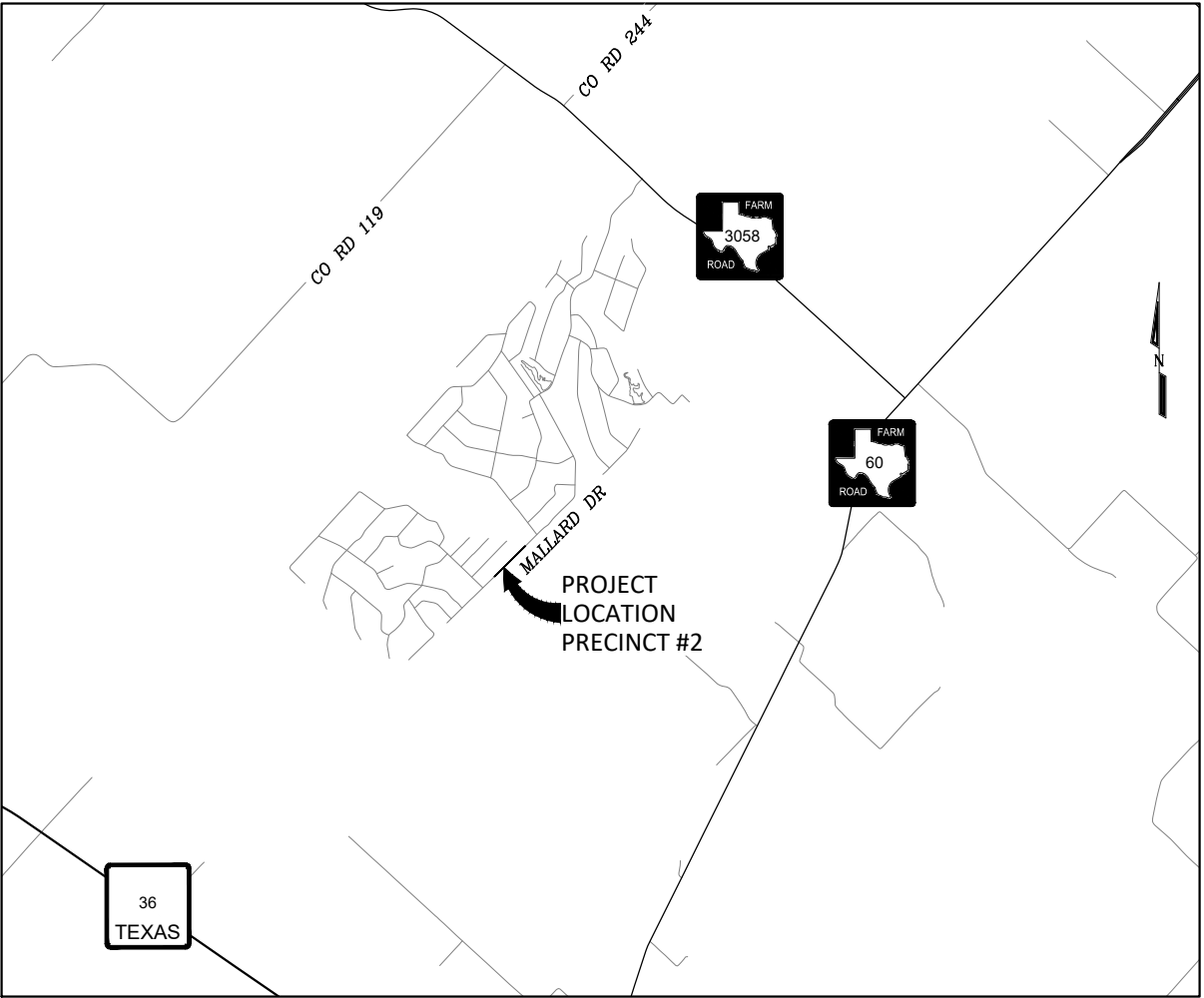
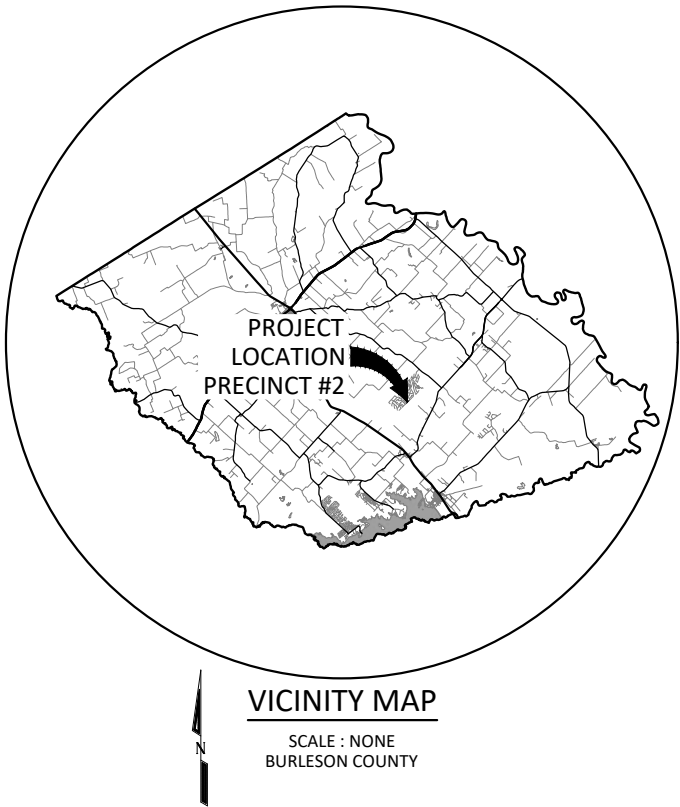
CONSTRUCTION DRAWINGS FOR

BURLESON CO -

24-065-057-E567-STREET-DRAINAGE

MALLARD DRIVE

JUNE 2025



COMMISSIONERS COURT

COUNTY JUDGE:
PRECINCT 1 COMMISSIONER:
PRECINCT 2 COMMISSIONER:
PRECINCT 3 COMMISSIONER:
PRECINCT 4 COMMISSIONER:

KEITH SCHROEDER
DWAYNE FAUST
VINCENT SVEC, JR.
DAVID HILDEBRAND
ROBERT URBANOSKY

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS & SPECIFICATIONS FOR THIS PROJECT. ANY ITEMS THAT ARE NOT DETAILED OR SPECIFICALLY ADDRESSED SHALL BE PER BURLESON COUNTY STANDARD SPECIFICATIONS AND UNIFIED DESIGN GUIDELINES.

Sheet List Table	
SHEET NUMBER	SHEET TITLE
1	COVER
2	NOTES
3	EXISTING CONDITIONS
4	DEMOLITION PLAN
5	PLAN AND PROFILE 1 OF 2
6	PLAN AND PROFILE 2 OF 2
7	CULVERTS PLAN AND PROFILE 1 OF 4
8	CULVERTS PLAN AND PROFILE 2 OF 4
9	CULVERTS PLAN AND PROFILE 3 OF 4
10	CULVERTS PLAN AND PROFILE 4 OF 4
11	WATERLINE ADJUSTMENT
12	TYPICAL SECTIONS
13	MALLARD DRIVE SECTIONS 1 OF 4
14	MALLARD DRIVE SECTIONS 2 OF 4
15	MALLARD DRIVE SECTIONS 3 OF 4
16	MALLARD DRIVE SECTIONS 4 OF 4
17	BERRY CREEK SECTIONS 1 OF 2
18	BERRY CREEK SECTIONS 2 OF 2
19	TRAFFIC CONTROL PLAN - PHASE 1
20	TEMPORARY DETOUR ROUTE
21	TEMPORARY SHORING
22	TRAFFIC CONTROL PLAN - PHASE 2
23	EROSION CONTROL PLAN
24	DETAILS 1 OF 7
25	DETAILS 2 OF 7
26	DETAILS 3 OF 7
27	DETAILS 4 OF 7
28	DETAILS 5 OF 7
29	DETAILS 6 OF 7
30	DETAILS 7 OF 7

PREPARED FOR:
BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

BLEYL ENGINEERING
PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

AUSTIN BRYAN CONROE HOUSTON

COVER

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS

DAVID L. BESLY
81873
LICENSED PROFESSIONAL ENGINEER
6-25-2024

DESIGN: CS
CAD: JG RVW: DLB
PROJECT NO: 13357
SHEET: 1 OF: 30

STANDARD NOTES

- TOPOGRAPHIC SURVEY WAS PERFORMED BY HODDE & HODDE LAND SURVEYING, INC ON AUGUST 21, 2024. ELEVATIONS FOR TEMPORARY BENCHMARKS (TBMS) SHOWN ON THESE PLANS SHALL BE VERIFIED FOR CONSISTENCY AND PRECISION BETWEEN TBMS FOR EACH SITE.
- SOME WORK MAY BE LOCATED WITHIN A FEMA-DESIGNATED FLOODWAY AND/OR 100-YEAR FLOODPLAIN. ANY REQUIRED FLOODPLAIN DEVELOPMENT PERMITS, NO-RISE CERTIFICATIONS OR LETTERS OF MAP CHANGE SHALL BE PROVIDED BY OTHERS.
- THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE STANDARD DETAILS AND SPECIFICATIONS FOR PROPOSED IMPROVEMENTS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE BIDSET PLANS AND SPECS.
- REVISIONS TO THESE ENGINEERING PLANS MUST BE AUTHORIZED BY BLEYL ENGINEERING PRIOR TO CONSTRUCTION. BLEYL ENGINEERING - (979) 268-1125
- THE CONTRACTOR SHALL:
 - NOTIFY BLEYL ENGINEERING (979)-268-1125 AND ALL OTHER PERTINENT AGENCIES 48 HRS BEFORE STARTING WORK.
 - THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST 72 HOURS PRIOR TO COMMENCING WORK.
 - NOTIFY ALL APPROPRIATE UTILITY COMPANIES 48 HOURS PRIOR TO ANY EXCAVATION.
 - NOTIFY THE ENGINEER AND ALL PERTINENT AGENCIES OF ALL DESIRED FIELD CHANGES. THE ENGINEER'S APPROVAL MAY BE REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY AND SAFETY PROVISIONS REQUIRED TO PROTECT INDIVIDUALS, EQUIPMENT, MATERIALS AND WORKMANSHIP NECESSARY FOR THIS PROJECT. 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 COMPLETION.
- THE CONTRACTOR SHALL ADVISE THE ENGINEER OF ANY APPARENT OR SPECIAL NEEDS TO COMPLETE THE SCOPE OF WORK INCLUDED IN THIS PROJECT. THESE MAY INCLUDE THE NEED FOR OWNER PROVIDED SERVICES SUCH AS WATER, STAFF AVAILABILITY, ETC.
- ACCURATE RECORDS SHOWING THE INSTALLED LOCATIONS OF ALL IMPROVEMENTS SHALL BE MAINTAINED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN ACCESS DURING THE CONSTRUCTION PERIOD. SCHEDULING OF ACTIVITIES SHOULD EMPHASIZE ACCESSIBILITY TO THE PROJECT SITE. EXTENDED PERIODS OF RESTRICTED ACCESS MUST BE LIMITED.
- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND ALL UTILITY COMPANY REGULATIONS CONCERNING SAFETY AND HEALTH PRACTICES.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OSHA RULES AND REGULATIONS.
- THE CONTRACTOR SHALL PROTECT EXISTING MONUMENTS, YARDS, PRIVATE UTILITIES, DRIVES, CURBS, MAIL BOXES, SIGNS, IMPROVEMENTS, CULVERTS AND OWNER'S FACILITIES FROM DAMAGE DURING CONSTRUCTION. DAMAGE DONE TO THESE ITEMS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL MOVE AND REPLACE SUCH MOVABLE ITEMS AS MAIL BOXES, TRAFFIC CONTROL, BUSINESS SIGNS, AND STREET SIGNS AS NECESSARY FOR CONSTRUCTION. FENCES OR STRUCTURES WHICH REQUIRE DISMANTLING OR REMOVAL SHALL BE RECONSTRUCTED OR REPLACED TO EQUAL OR BETTER THAN ORIGINAL CONDITION.
- AT THE END OF ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL RESTORE EXISTING FACILITY (I.E. PROPERTY) EQUAL TO OR BETTER THAN EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. CLEAN-UP ACTIVITIES SHALL BE MAINTAINED THROUGHOUT THE CONTRACT PERIOD.
- THE CONTRACTOR SHALL TAKE SPECIAL CARE TO ENSURE THAT SURFACE DRAINAGE IS NOT IMPEDED BY CONSTRUCTION WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF CONSTRUCTION ACTIVITIES DURING THE CONTRACT PERIOD. THIS SHALL INCLUDE ANY EROSION CONTROL MEASURES AND RE-GRADING NECESSARY TO ACHIEVE THE LINES AND GRADES SET FORTH BY THESE PLANS.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL CONSTRUCTION FENCING AROUND SITE TO PREVENT NON-WORKERS FROM ACCESSING THE CONSTRUCTION AREA. EXISTING WOODEN FENCES MAY BE USED IN LIEU OF CONSTRUCTION FENCING WHERE THEY EXIST AND CAN PREVENT ACCESS TO THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL COMPLY WITH STATE AND LOCAL REGULATIONS REGARDING STORM WATER POLLUTION PREVENTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP AND ENSURE THAT AN ADEQUATE STORM WATER POLLUTION PREVENTION PLAN IS IMPLEMENTED AND MAINTAINED. ALL SILT FROM THE CONSTRUCTION OF THE PROPOSED UTILITIES IS TO BE RETAINED ON SITE AND PREVENTED FROM BEING TRANSPORTED TO THE NATURAL DRAINAGE PATHWAYS. ALL SWMP DEVICES WILL BE PAID FOR BY THE CONTRACTOR AND WILL BE CONSIDERED INCIDENTAL TO THE PROPOSED UTILITY WORK. CONFORMANCE TO THESE REGULATORY REQUIREMENTS IS MANDATORY.
- ALL TESTING PROCEDURES USED ON THIS PROJECT SHALL CONFORM TO THE TCEQ, AWWA, NSF OR APPLICABLE STANDARDS. THE TESTING EXPENSE SHALL BE BORNE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHOULD BE AWARE THAT THERE ARE OVERHEAD AND UNDERGROUND ELECTRICAL, TELEPHONE, ETC. LINES WITHIN THE PROJECT SITE. THE CONTRACTOR AND HIS PERSONNEL SHALL EXERCISE CARE AROUND THESE LINES TO PREVENT DAMAGE TO LINES AND INJURY TO THE PERSONNEL. ANY DAMAGE SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- ALL UNDERGROUND UTILITY LINES, SIZES, AND MATERIAL TYPES SHOWN ON THE PLANS ARE FOR THE PURPOSE OF MAKING THE CONTRACTOR AWARE THAT THEY EXIST. NEITHER THE OWNER, NOR THE ENGINEER GUARANTEES THE ACCURACY THEREOF. ALSO, THE LOCATIONS OF SOME EXISTING UTILITY LINES ARE NOT KNOWN AND THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND MATERIAL TYPES OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. THE FINAL ALIGNMENT OF THE PROPOSED MAIN LINES ARE SUBJECT TO MODIFICATION PENDING THE ESTABLISHMENT OF EXISTING UTILITY LOCATIONS.
- THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL POINTS OF CROSSING TO DETERMINE IF CONFLICTS EXIST BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICTS.
- THE LATEST TCEQ REGULATIONS MUST BE FOLLOWED FOR CROSSINGS OF SANITARY SEWER MAINS AND WATER MAINS. IT IS THE INTENT THAT THE MOST ECONOMICALLY ACCEPTABLE ALTERNATIVE BE ELECTED. ACCORDINGLY, FIELD VERIFICATION OF EXISTING UTILITY GRADES IS IMPERATIVE.
- FINAL COVER OF INSTALLED LINES SHALL NOT BEGIN PRIOR TO OBSERVATION AND ACCEPTANCE BY THE OWNER OR ENGINEER. THE CONTRACTOR SHALL CONTACT THE OWNER BY 4:00 P.M. REGARDING THE SCHEDULING OF THESE MONITORING VISITS.
- CONNECTIONS TO EXISTING LINES SHALL INCLUDE ALL REQUIRED FITTINGS, MATERIALS REQUIRED TO MAKE A SUCCESSFUL TIE IN MEETING ALL APPLICABLE STANDARDS.
- THE LOADING AND UNLOADING OF ALL MATERIALS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL AT ALL TIMES BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIALS AND EQUIPMENT.
- ALL MATERIALS AND EQUIPMENT SHALL BE BOTH FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION AS PER OSHA REQUIREMENTS.
- TRENCH SAFETY REQUIREMENTS SHALL BE IN ACCORDANCE WITH OSHA STANDARD 29 CFR PART 1926 P. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING AND MAINTAINING TRENCH SAFETY. COST FOR ANY TRENCH SAFETY SYSTEMS THAT REQUIRE AN ENGINEER'S SEAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE PROJECT.
- IF AND WHERE DEWATERING IS NECESSARY, THR CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EROSION/SEDIMENT CONTROL FEATURES SHOWN ON THE EROSION CONTROL WORKMANSHIP PRIOR TO GRADING OR OTHER CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL ADHERE TO ALL TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM REQUIREMENTS FOR CONSTRUCTION SITES, INCLUDING INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL NECESSARY STORMWATER POLLUTION PROTECTION MEASURES AND NOTICES. CONTRACTOR SHALL NOTIFY THE TCEQ, MSA, AND PUBLIC AS REQUIRED AND CREATE, UPDATE, AND MAINTAIN A STORMWATER POLLUTION PREVENTION PLAN AS REQUIRED, INCLUDING REQUIRED INSPECTION.
- THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER SUCH THAT TRUCKS AND OTHER VEHICLES DO NOT CREATE A DIRT NUISANCE OR SAFETY HAZARD IN ANY STREETS, PUBLIC OR PRIVATE. CLEAN UP OF STREETS SHALL BE DONE DAILY AT NO ADDITIONAL COST TO THE PROJECT.
- ALL PIPES AND STRUCTURES SHALL BE INSTALLED TO MANUFACTURER SPECIFICATIONS, INCLUDING MAXIMUM BENDING RADIUS, JOINT DEFLECTION, FITTINGS, SEALANTS, ETC.
- NO EXCAVATIONS SHALL BE LEFT OPEN OVERNIGHT. ALL EXCAVATIONS WHICH CANNOT BE BACKFILLED OR COVERED SHALL BE COVERED WITH STEEL SHEETING WHEN IN PAVED AREAS. FOR NON-PAVED AREAS STEEL SHEETING, WOOD PLANKING OR OTHER MATERIAL WHICH IS APPROVED BY THE COUNTY MAY BE USED. COMPLETELY CORDON OFF THE EXCAVATION AREA WITH PLASTIC CONSTRUCTION FENCING APPROVED BY THE COUNTY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SAFETY OF EXCAVATION AREAS.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND DETERMINE THE DEPTH, LOCATION, ELEVATION, ALIGNMENT AND EXISTENCE OF ALL SURFACE OR UNDERGROUND UTILITIES AND STRUCTURES IN AND AROUND THE VICINITY OF THE WORK TO BE PERFORMED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF ANY CONFLICTS FOUND PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL ALLOW AMPLE TIME TO THE OWNER TO DETERMINE A RESOLUTION TO THE CONFLICT. NO ADDITIONAL PAYMENT SHALL BE MADE FOR DELAYS DUE TO SUCH CONFLICTS OR WORK DONE WITHOUT DETERMINING THE ACTUAL LOCATION OF UTILITIES OR OBJECTS.

- EXISTING PAVEMENT, CURB, SIDEWALK, DRIVEWAY, AND LANDSCAPED AREAS DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. ALL AREAS WHERE EXISTING VEGETATION AND GRASS HAS BEEN REMOVED OR SIGNIFICANTLY REDUCED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADEQUATELY APPLY REVEGETATIVE COVERINGS OVER THE AREA WITHIN 14 CALENDAR DAYS AFTER LAST DISTURBANCE AND THEN WATER THE AREAS UNTIL GROWTH IS WELL ESTABLISHED AND THE SITE IS PROVISIONALLY ACCEPTED BY THE CITY'S PROJECT MANAGER. REVEGETATIVE COVERINGS FOR DISTURBED AREAS SHALL BE:
 - FOR LANDSCAPED YARDS, APPLY BLOCK SOD;
 - FOR NATURAL VEGETATION AND OTHER GRASSY AREAS APPLY HYDROMULCH.
- ALL CONSTRUCTION STAKING FOR THE IMPROVEMENTS REQUIRED ON THIS PROJECT WILL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL USE A TEXAS REGISTERED PROFESSIONAL LAND SURVEYOR TO PERFORM THE CONSTRUCTION STAKING AND TO VERIFY THE LOCATIONS OF ALL POTENTIAL ALIGNMENT CONFLICTS SPECIFICALLY CALLED FOR ON THE PLANS. CONSTRUCTION STAKING SHALL BE CONSIDERED INCIDENTAL AND THE CONTRACTOR SHALL INCLUDE COSTS IN RELATED ITEMS OF WORK. THE CONTRACTOR SHALL USE GRADE CONTROL TO ENSURE FLOW LINES AND INVERTS ARE INSTALLED AT GRADES AND ELEVATIONS SHOWN.
- ALL TRENCHING AND BACKFILLING SHALL BE PERFORMED PER THE SPECIFICATIONS. TESTING WILL BE PERFORMED BY A CERTIFIED LABORATORY AT THE OWNER'S EXPENSE, TO VERIFY PROPER BEDDING AND BACKFILL. ANY WORK THAT DOES NOT PASS TESTING SHALL BE REPLACED AND RETESTED AT THE CONTRACTOR'S EXPENSE. STRUCTURAL AREAS SHALL INCLUDE ALL SIDEWALKS AND SHALL EXTEND 5' BEYOND THE CURB LINES OF ALL STREETS, ALLEYS AND PARKING AREAS.
- UNLESS OTHERWISE NOTED, ALL WATER, GAS AND SEWER LINE TIE-INS AND CONNECTIONS SHALL BE CONSIDERED SUBSIDIARY TO THEIR REQUIRED COMPONENTS AS LISTED IN THE BID TABS. NO SEPARATE PAYMENT WILL BE MADE FOR APPURTENANCES NECESSARY TO INSTALL SEWER LINE ITEMS ACCORDING TO SPECIFICATIONS.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL ONLY BE COMPENSATED FOR THE PIPE, FITTINGS, CLEANOUTS, MANHOLES, AND OTHER APPURTENANCES THAT ARE ACTUALLY INSTALLED FOR THE UTILITY LINES AND OTHER IMPROVEMENTS REQUIRED FOR THIS PROJECT. REFER TO APPLICABLE TECHNICAL SPECIFICATION SECTIONS FOR SPECIFIC INFORMATION ON MEASUREMENT AND PAYMENT, ELIMINATION/ADDITION OF FITTINGS AND RELATED RESTRAINED JOINT PIPE LENGTHS, LAYING SCHEDULES, AND OTHER IMPORTANT REQUIREMENTS ON THE SEWER LINES AND OTHER IMPROVEMENTS ON THIS PROJECT.
- UNLESS SPECIFICALLY STATED, AND OTHERWISE PROVIDED FOR ON THE BID FORM, ALL WORK DESCRIBED IN THESE STANDARD NOTES SHALL BE CONSIDERED INCIDENTAL TO THE ITEMS OF WORK LISTED ON THE BID PROPOSAL FORM AND NO SEPARATE PAYMENT WILL BE MADE TO THE CONTRACTOR FOR SUCH WORK.
- ANY REQUIRED CHANGES TO THE DRAWINGS RESULTING FROM THE ACCEPTANCE OF ALTERNATES AND/OR SUBSTITUTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE PRIMARILY TAKEN FROM ABOVEGROUND MARKINGS LOCATED DURING A TOPOGRAPHIC SURVEY. SANITARY SEWER, STORM SEWER INLETS, JUNCTION BOXES, ELECTRIC AND GAS MARKINGS (PAINT AND PIN PLACES) AND VISIBLE PIPE ENDS WERE SURVEYED. VERTICAL INFORMATION ON THESE PIPES IS BASED UPON INTERPOLATION OF MEASURED FLOWLINES. VERTICAL INFORMATION ON OTHER UTILITIES IS ONLY SCHEMATIC.
- BLEYL ENGINEERING AND THE OWNER ARE AWARE OF THE FOLLOWING UTILITIES WITHIN THE AREA OF WORK:
 - WATER
 - TELEPHONE/COMMUNICATIONS
 - ELECTRIC LINES AND POWER POLES
 - ELECTRIC SERVICESTHIS LIST IS PRESENTED ONLY AS INFORMATION TO THE CONTRACTOR AND SHOULD NOT BE CONSIDERED AS A COMPLETE LIST OF FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE PRECAUTIONS TO MAINTAIN THE INTEGRITY OF THE EXISTING UTILITIES LISTED (A. THROUGH D.) OR THOSE DISCOVERED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ELECTRIC UTILITY COMPANY FOR HOLDING OR STABILIZING POWER POLES, GUY WIRES, ETC. WHERE NECESSARY.
- THE CONTRACTOR SHALL CONTACT ALL PERTINENT UTILITY AND PIPELINE COMPANIES 48 HOURS (MINIMUM) PRIOR TO EXCAVATION IN A PROJECT AREA. THE CONTRACTOR SHALL CONTACT 811 CALL, DIG TESS NOTIFICATION CENTER AT 1-800-(DIG544)-TESS(8377) AND TEXAS ONE CALL NOTIFICATION CENTER AT 1-800-245-4545 TO PROVIDE UTILITY LOCATIONS. ALL UTILITIES (INCLUDING BUT NOT LIMITED TO PIPELINES, NATURAL GAS LINES, FIBER OPTIC CABLE, BURIED ELECTRIC, TELEPHONE, TELEVISION, WATER, SANITARY SEWER, STORM SEWER, ETC.) SHALL BE IDENTIFIED PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL NOT USE RESIDENTS' WATER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL MATERIALS WHICH ARE NOT TO BE REINSTALLED OR SALVAGED ON THE PROJECT IN A MANNER THAT COMPLIES WITH ALL APPLICABLE LAWS AND REGULATIONS. PAY SHALL BE CONSIDERED INCIDENTAL TO THE NEAREST-RELATED WORK ITEM.
- REMOVAL AND REPLACEMENT OF EXISTING STRUCTURES AND FACILITIES, SUCH AS STREET SIGNS, TRAFFIC SIGNS AND MAIL BOXES, SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT EXCEPT WHERE SPECIFICALLY NOTED ON THE PLANS AND LISTED IN THE BID FORM.
- UNLESS OTHERWISE NOTED, ALL WATER, GAS AND SEWER LINE TIE-INS AND CONNECTIONS SHALL BE CONSIDERED SUBSIDIARY TO THEIR REQUIRED COMPONENTS AS LISTED IN THE BID TABS. NO SEPARATE PAYMENT WILL BE MADE FOR APPURTENANCES NECESSARY TO INSTALL SEWER LINE ITEMS ACCORDING TO SPECIFICATIONS.
- THE CONTRACTOR SHALL ACCESS WORK SITE FROM 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY ONLY. ANY LANE CLOSURE SHALL ONLY BE BETWEEN THE HOURS OF 8:30 AM AND 4:00 PM OR AS APPROVED IN ADVANCED, IN WRITING, BY THE OWNER.

STREET NOTES

- FILL AREAS ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8" IN DEPTH AND EACH COMPACTED TO NOT LESS THAN 90% STANDARD PROCTOR DENSITY PRIOR TO INSTALLATION OF WATER LINE AND FILL AREA SHALL BE SEEDD AND FERTILIZED WITHIN 10 WORKING DAYS.
- EXISTING PAVEMENTS, CURBS, DRIVEWAYS, AND SIDEWALKS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO BURLESON COUNTY STANDARDS, WITH LATEST ADDENDA AND AMENDMENTS THERETO.
- CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY UPON COMPLETION OF JOB SHALL BE AS GOOD AS OR BETTER THAN PRIOR TO STARTING WORK.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO SATISFACTION OF THE OWNING AUTHORITY.
- THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAWS CONCERNING EXCAVATION, TRENCHING AND SHORING.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES TO EXISTING WATER, WASTEWATER, STORM SEWER AND TRAFFIC SIGNAL CONDUITS. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE BURLESON COUNTY STANDARDS, AT NO COST TO BURLESON COUNTY.
- SIGNING, BARRICADING AND LIGHTING FOR CONSTRUCTION WITHIN HIGHWAY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND OTHER APPLICABLE STATE OR LOCAL STANDARDS. SIGNS, BARRICADES AND LIGHTS SHALL BE KEPT CLEAN, OPERATIONAL AND PROPERLY POSITIONED TO ASSURE PROPER SAFETY PRECAUTIONS.
- THE CONSTRUCTION TRAFFIC CONTROL SIGNS, DEVICES AND BARRICADES ON THESE DRAWINGS CONSTITUTE MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO COVER SPECIAL CIRCUMSTANCES OR OTHER CONDITIONS THAT MAY ARISE DUE TO UNFORESEEN FIELD CONDITIONS. THE CONTRACTOR SHALL PLACE AND MAINTAIN SUFFICIENT ADDITIONAL SIGNS, BARRICADES, AND WARNING DEVICES TO WARN THE PUBLIC AND PROVIDE FOR THE SAFE MOVEMENT OF TRAFFIC AND THE CONSTRUCTION ZONE SAFETY. WHERE PROJECT REQUIREMENTS ARE NOT FULLY SATISFIED BY THE STANDARDS SHOWN HEREON, THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL GOVERN. ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL DEVICES MARKINGS, STRIPING AND SIGNAGE REQUIRED FOR THIS PROJECT SHALL BE INCLUDED IN THE APPROPRIATE LUMP SUM BID ITEM. ANY CHANGES TO TRAFFIC CONTROL DEEMED NECESSARY DUE TO FIELD CONDITIONS SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE PROJECT.

GRADING NOTES

- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- BEFORE STARTING CONSTRUCTION, CONTRACTOR SHALL VERIFY BENCHMARK ELEVATION AND NOTIFY ENGINEER IF ANY DISCREPANCY AND/OR CONFLICT IS FOUND.
- THE CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION.
- ALL EXISTING CONCRETE PAVING, SIDEWALK, AND CURB DEMOLITION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. DISPOSAL SHALL BE AT AN APPROVED OFF-SITE, LAWFUL LOCATION, UNLESS DIRECTED OTHERWISE BY THE OWNER.

PREPARED FOR:

BURLERSON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

BLEYL ENGINEERING

PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

AUSTIN

BRYAN

CONROE

HOUSTON

NOTES

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS

STATE OF TEXAS

DAVID L. BESLEY

81873

PROFESSIONAL ENGINEER

David L. Besley

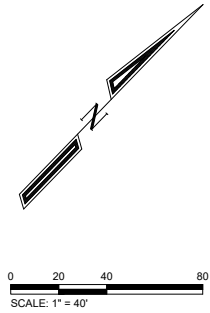
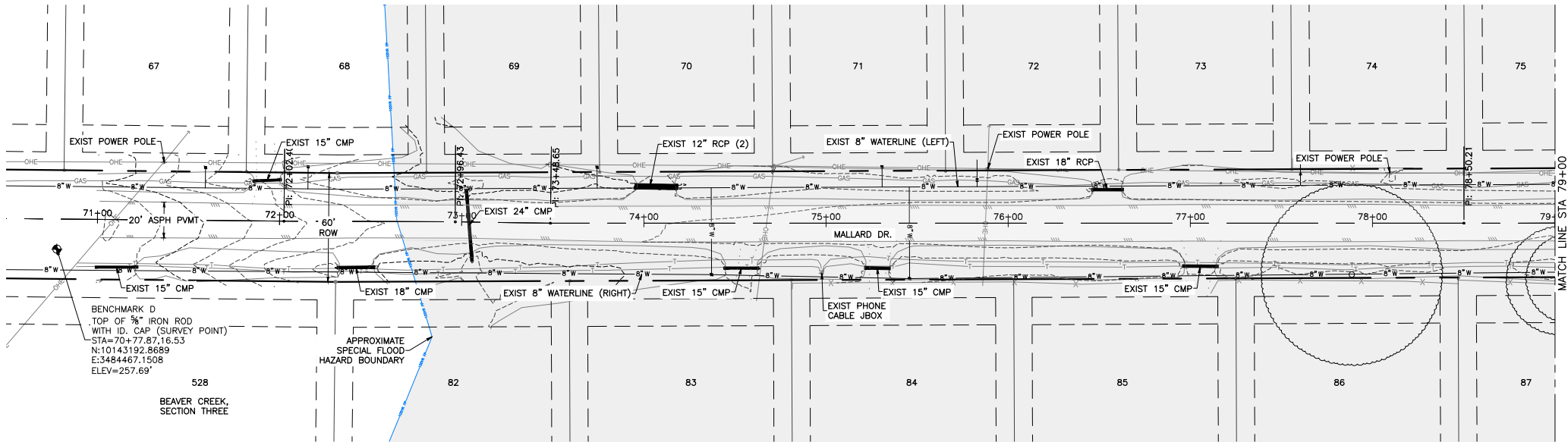
6-25-2024

DESIGN: CS

CAD: JG | RWV: DLB

PROJECT NO: 13357

SHEET: 2 OF: 30

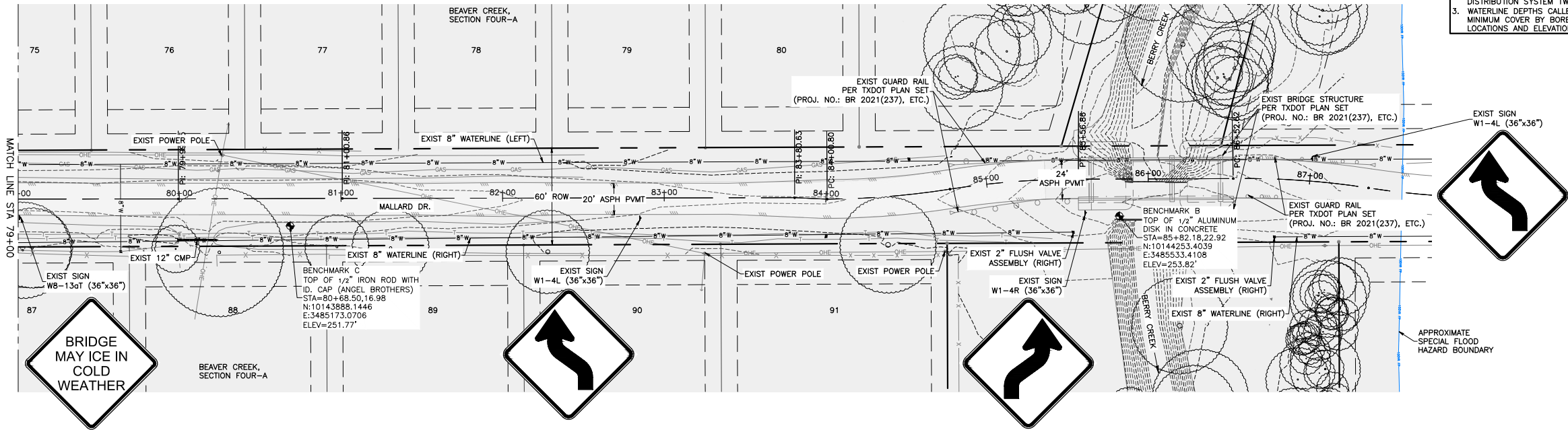


LEGEND

- EXIST STORM
- EXIST WATER LINE
- EXIST GAS LINE
- EXIST UNDERGROUND TELEPHONE CABLES
- EXIST OVERHEAD ELECTRIC
- EXIST FENCE
- EXIST ASPHALT PAVEMENT
- EXIST EASEMENT LINES
- EXIST RIGHT OF WAY (ROW)
- EXIST DITCH TOP OF BANK
- EXIST 100-YR FLOODPLAIN
- EXIST TREE
- SURVEY BENCHMARK

NOTES:

- BRIDGE STRUCTURE DETAILS FROM TXDOT'S MALLARD RD AT BERRY CREEK / CR244 AT SESSUMS CREEK PLAN SET. PROJECT NUMBER BR 2021(237), ETC.
- WATERLINE DETAILS FROM "BEAVER CREEK WID NO.1 WATER DISTRIBUTION SYSTEM TWDB PROJECT NO. 10418 CONTRACT NO.3"
- WATERLINE DEPTHS CALLED 48" MINIMUM COVER BY OPEN CUT AND 42" MINIMUM COVER BY BORE. CONTRACTOR TO VERIFY WATERLINE LOCATIONS AND ELEVATIONS BEFORE CONSTRUCTION.



REV	DATE	BY	APP	COMMENT

PREPARED FOR:

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

BLEYL ENGINEERING
PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

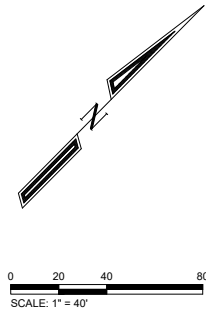
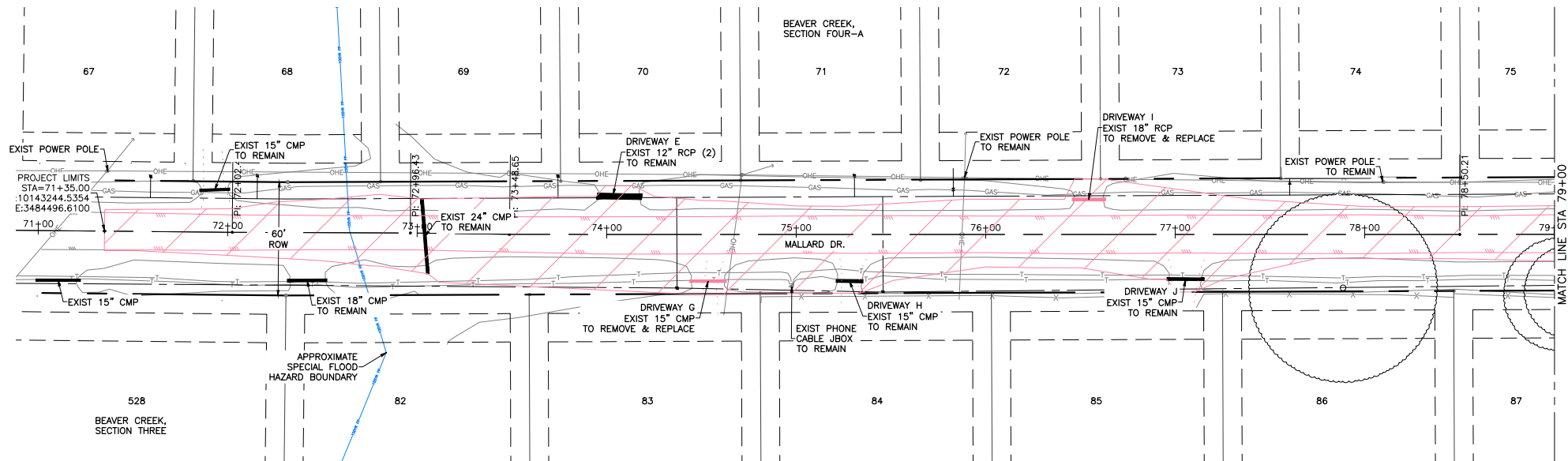
AUSTIN BRYAN CONROE HOUSTON

EXISTING CONDITIONS

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS

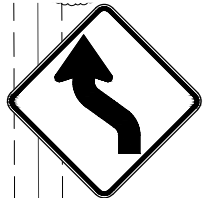
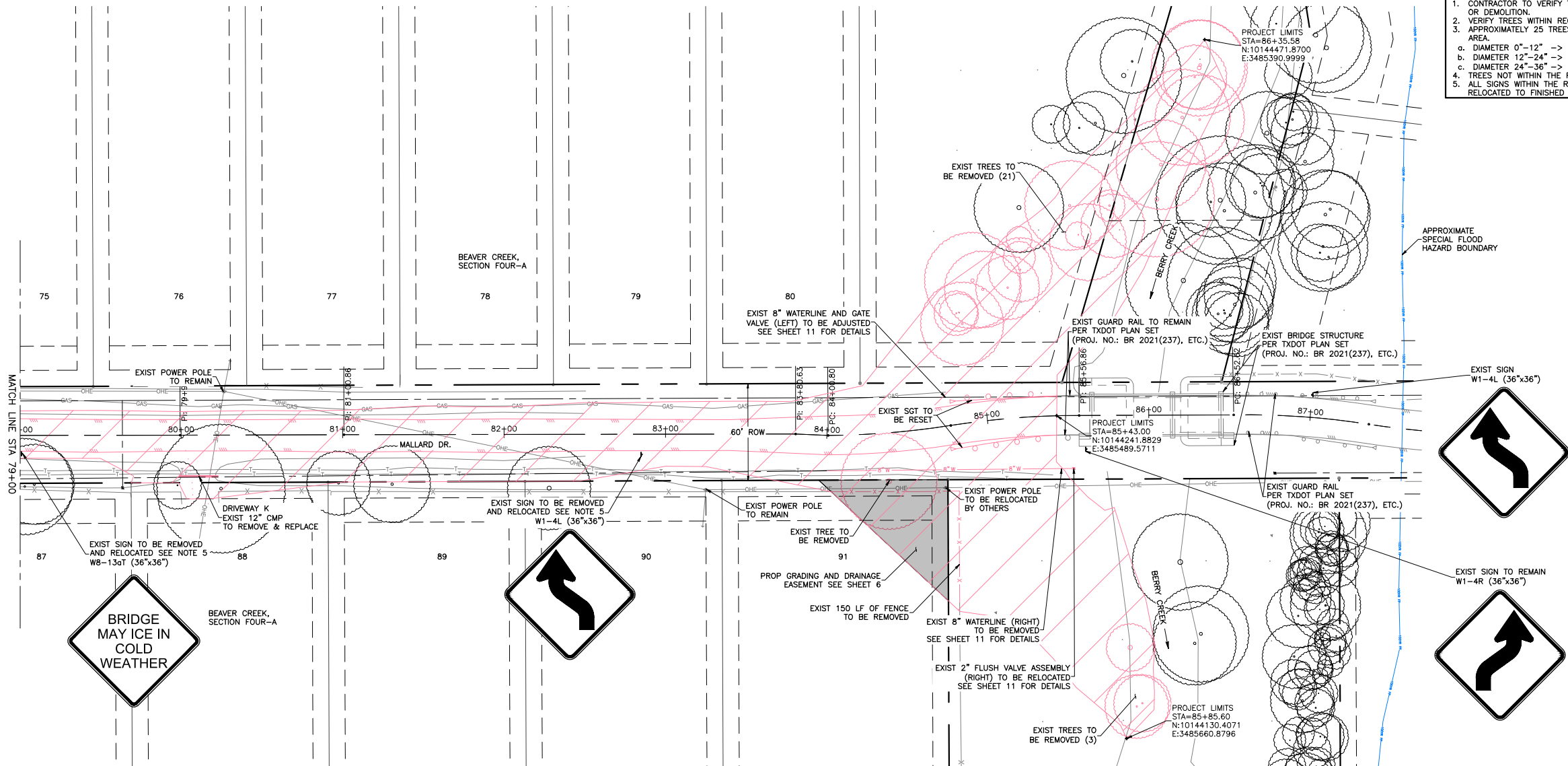
STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED PROFESSIONAL ENGINEER

DESIGN: CS
CAD: JG RWV: DLB
PROJECT NO: 13357
SHEET: 3 OF: 30



LEGEND	
	REGRADE AREA
	DEMOLITION ITEM
	TREE REMOVAL
	TREE TO REMAIN

- NOTES:
1. CONTRACTOR TO VERIFY TREE REMOVALS IN FIELD BEFORE REGRADEING OR DEMOLITION.
 2. VERIFY TREES WITHIN REGRADEING AREA BEFORE CONSTRUCTION.
 3. APPROXIMATELY 25 TREES TO BE REMOVED WITHIN THE REGRADEING AREA.
 - a. DIAMETER 0"-12" -> 11 TREES
 - b. DIAMETER 12"-24" -> 10 TREES
 - c. DIAMETER 24"-36" -> 4 TREES
 4. TREES NOT WITHIN THE REGRADEING AREA SHALL BE PROTECTED.
 5. ALL SIGNS WITHIN THE REGRADEING AREA SHALL BE REMOVED AND RELOCATED TO FINISHED GRADE IN PLACE.



REV	DATE	BY	APP	COMMENT

PREPARED FOR:

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

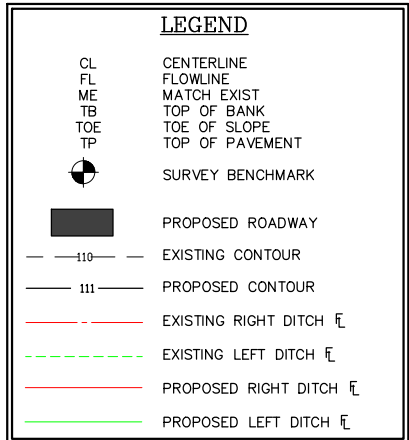
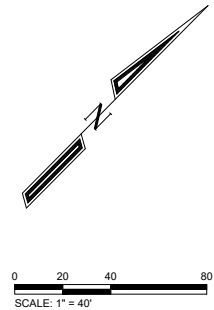
BLEYL ENGINEERING
PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

AUSTIN BRYAN CONROE HOUSTON

DEMOLITION PLAN

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS

DESIGN: CS
CAD: JG RWV: DLB
PROJECT NO: 13357
SHEET: 4 OF: 30



- NOTES:
1. GRADE SITE FOR POSITIVE DRAINAGE.
 2. FINISHED GRADES SHALL NOT IMPACT OFFSITE DRAINAGE AND SHALL NOT EXCEED 3:1.
 3. CONTRACTOR TO DISPOSE OF EXCESS SPOIL.
 4. VERIFY EXISTING PAVEMENT ELEVATIONS PRIOR TO CONSTRUCTION.
 5. FIELD VERIFY WATERLINE BEFORE CONSTRUCTION. WATERLINE LOCATION BASED ON "WABER CREEK WCID NO.1 WATER DISTRIBUTION SYSTEM" AND "BIDDER PROJECT NO. 10418 CONTRACT NO.3"
- THE DESIGN OF THE PROJECT WILL HAVE NO NEGATIVE EFFECT ON THIS ADJACENT OR ON THE SURFACE WATER ELEVATION AND/OR THE ADJACENT PROPERTIES.

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS

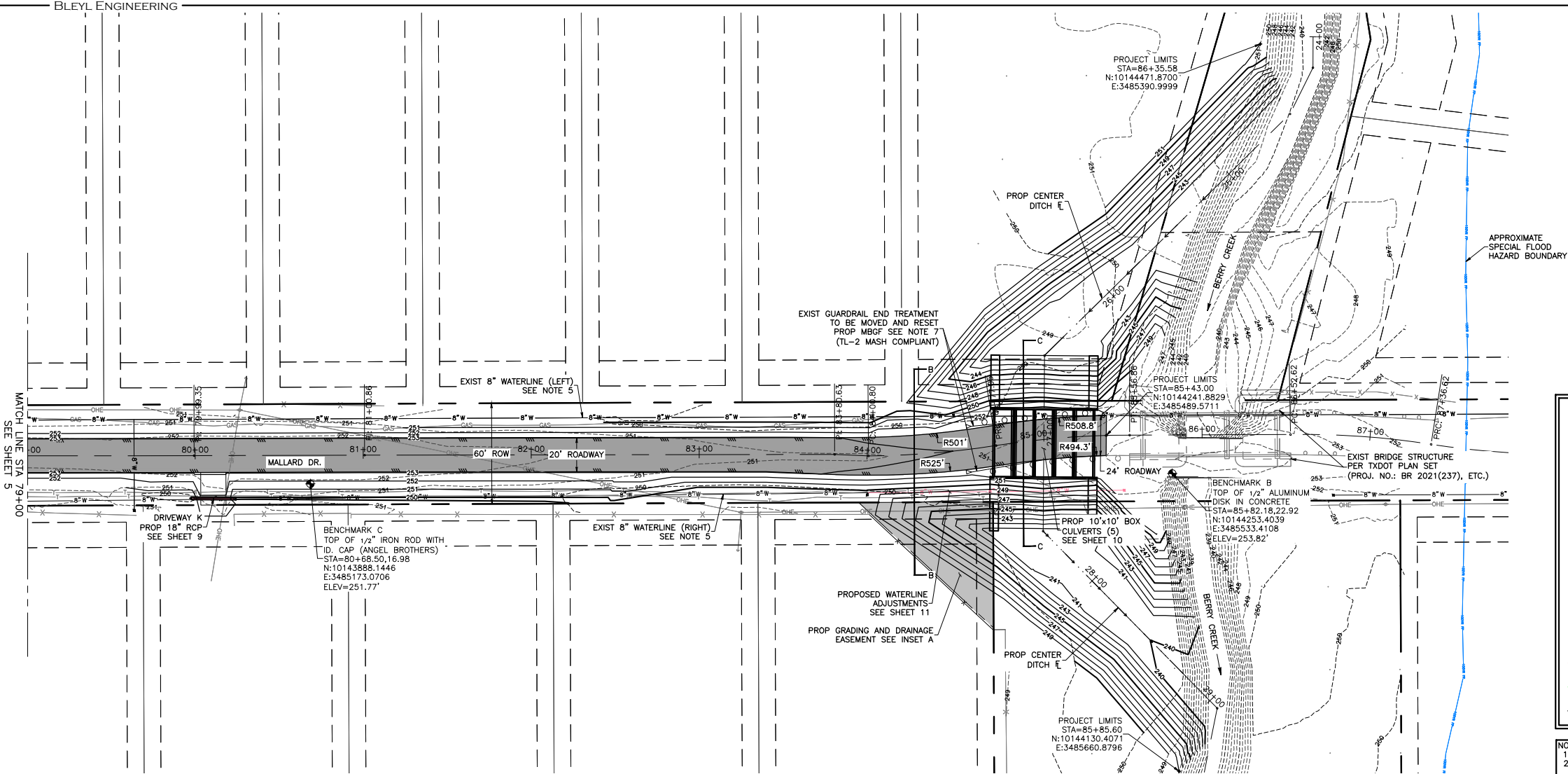
PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

REV	DATE	BY	APP	COMMENT



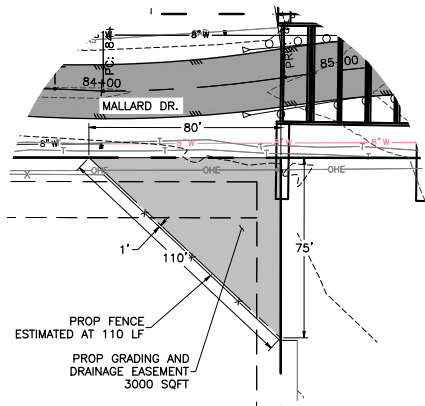
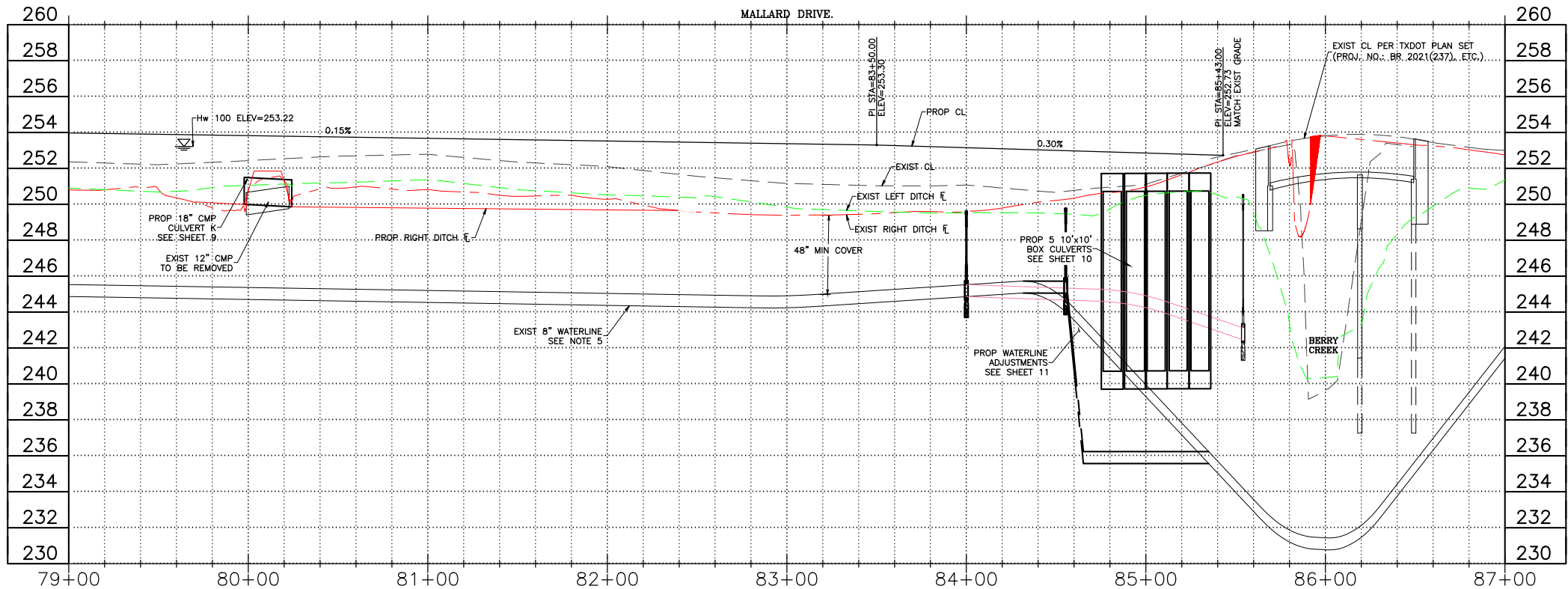
DESIGN: CS	
AD: JG	RVW: DLB
PROJECT NO: 13357	
HEET: 5	OF: 30



LEGEND

CL	CENTERLINE
FL	FLOWLINE
ME	MATCH EXIST
TB	TOP OF BANK
TOE	TOE OF SLOPE
TP	TOP OF PAVEMENT
	SURVEY BENCHMARK
	PROPOSED ROADWAY
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING RIGHT DITCH
	EXISTING LEFT DITCH
	PROPOSED RIGHT DITCH
	PROPOSED LEFT DITCH
	PROPOSED CENTER DITCH

- NOTES:
- GRADE SITE FOR POSITIVE DRAINAGE.
 - FINISHED GRADES SHALL NOT IMPACT OFFSITE DRAINAGE AND SHALL NOT EXCEED 3:1.
 - CONTRACTOR TO DISPOSE OF EXCESS SPOIL.
 - VERIFY EXISTING PAVEMENT ELEVATIONS PRIOR TO CONSTRUCTION.
 - FIELD VERIFY WATERLINE BEFORE CONSTRUCTION. WATERLINE LOCATION BASED ON "BEAVER CREEK W/OID NO.1 WATER DISTRIBUTION SYSTEM TWDB PROJECT NO. 10418 CONTRACT NO.3"
 - SEE SHEET 11 FOR WATERLINE ADJUSTMENT DETAILS.
 - PROPOSED MBGF (TL-2 MASH COMPLIANT) SHALL BE 25 LF ON BOTH SIDES OF MALLARD DR. (TOTAL 50 LF).
- THE DESIGN OF THE PROJECT WILL HAVE NO NEGATIVE EFFECT ON THIS DEVELOPMENT OR ON THE SURFACE WATER ELEVATION AND/OR THE ADJACENT PROPERTIES.



INSET A
PROPOSED GRADING AND DRAINAGE EASEMENT
NTS

PREPARED FOR:

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

BLEYL ENGINEERING
PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

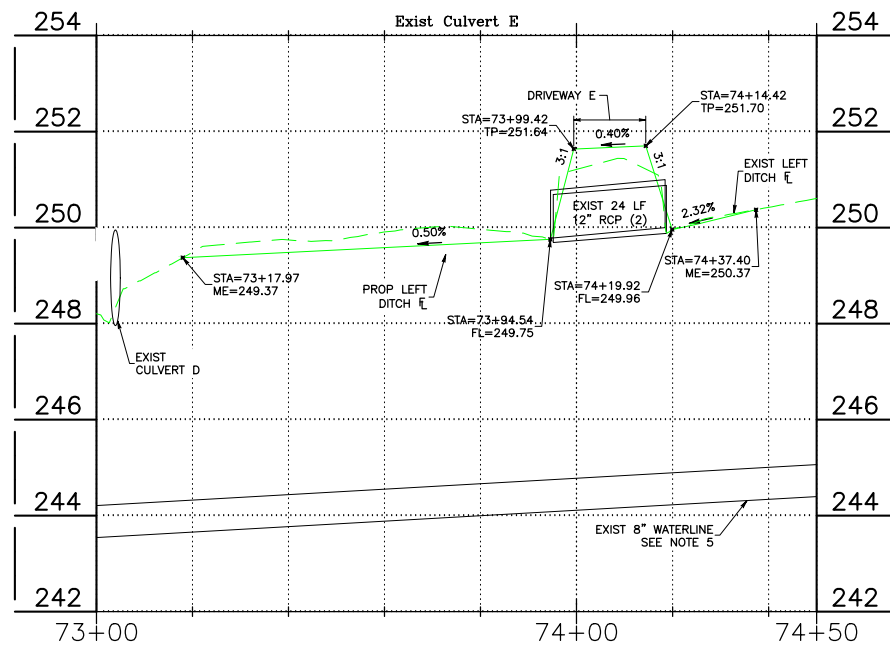
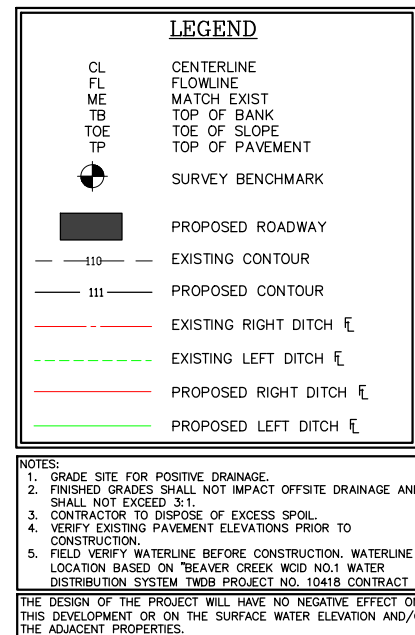
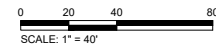
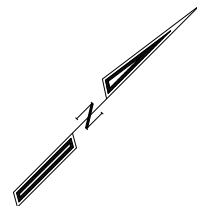
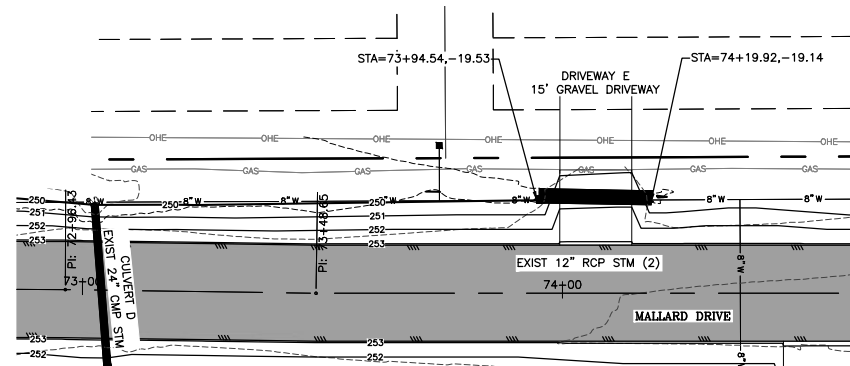
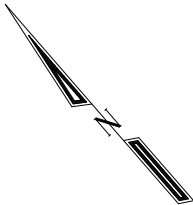
PLAN AND PROFILE 2 OF 2

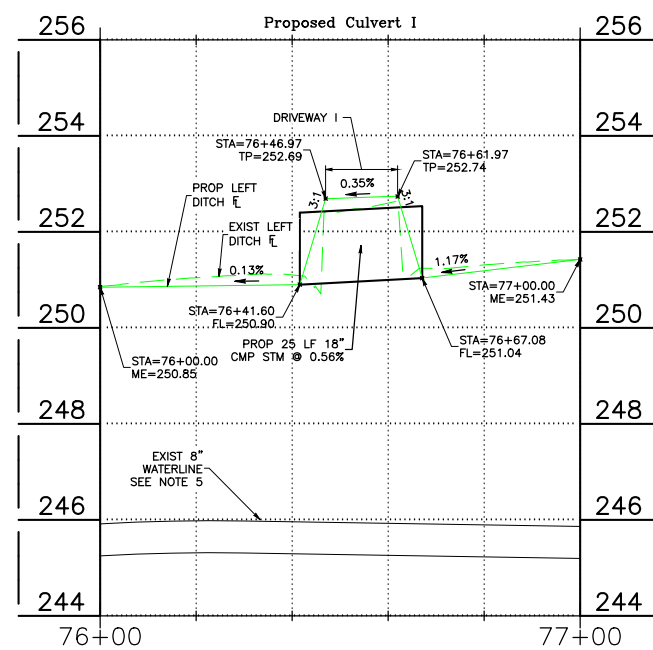
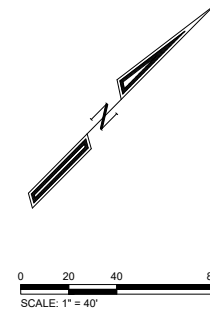
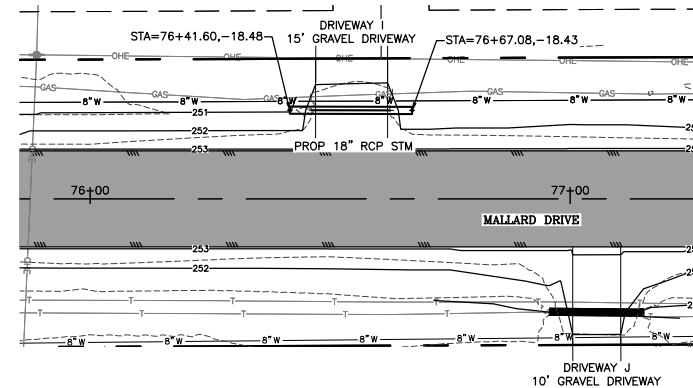
BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS

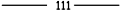
DAVID L. BESLY
81873
LICENSED PROFESSIONAL ENGINEER

DESIGN: CS
CAD: JG | RWV: DLB
PROJECT NO: 13357
SHEET: 6 OF: 30

REV	DATE	BY	APP	COMMENT





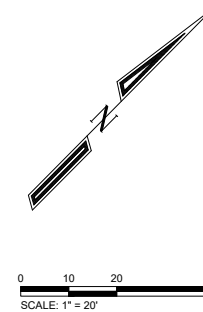
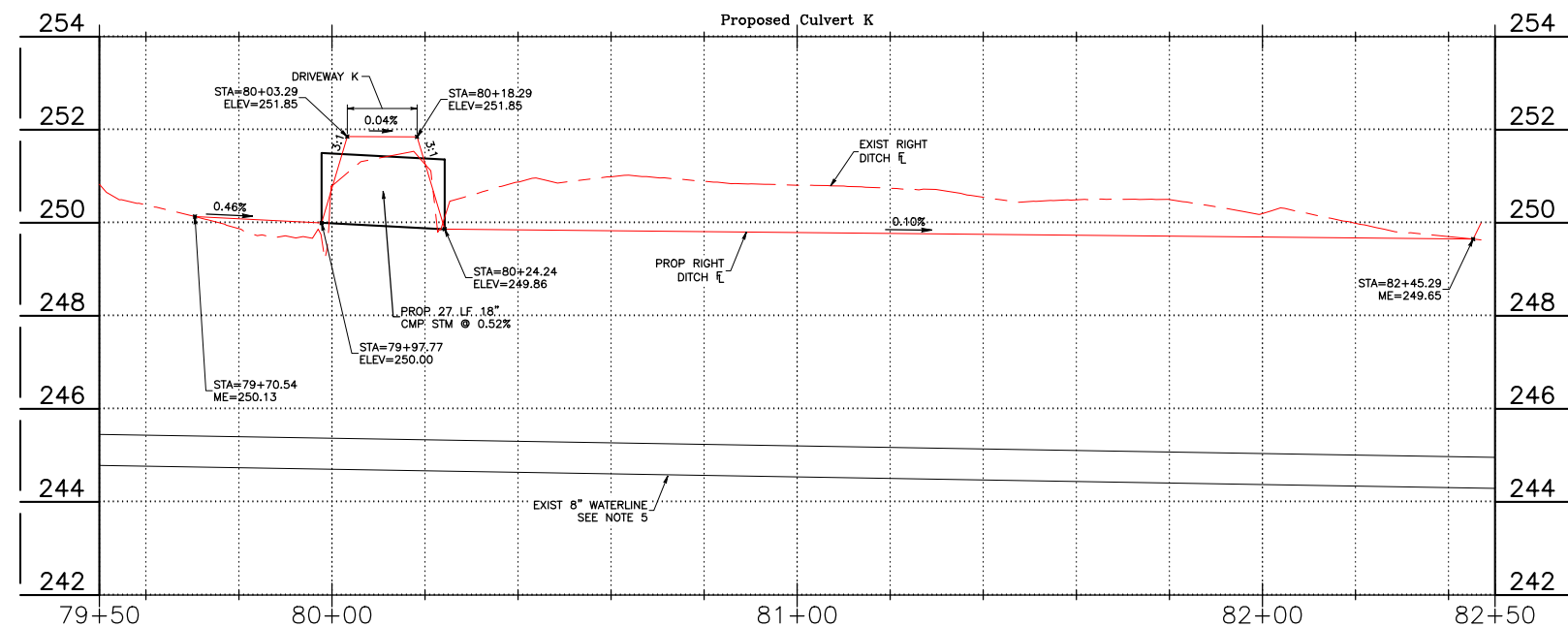
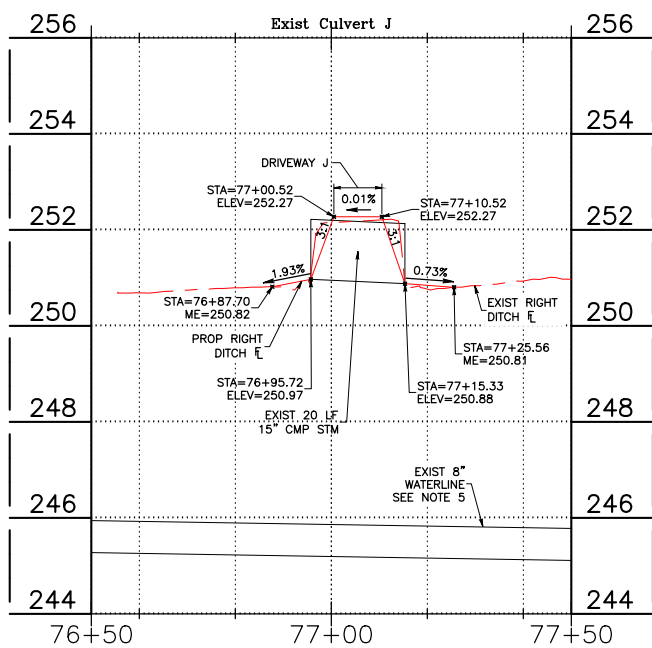
CL	CENTERLINE
FL	FLOWLINE
ME	MATCH EXIST
TB	TOP OF BANK
TOE	TOE OF SLOPE
TP	TOP OF PAVEMENT
	SURVEY BENCHMARK
	PROPOSED ROADWAY
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING RIGHT DITCH 
	EXISTING LEFT DITCH 
	PROPOSED RIGHT DITCH 
	PROPOSED LEFT DITCH 

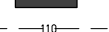
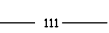
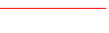
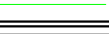
NOTES:

- GRADE SITE FOR POSITIVE DRAINAGE.
- FINISHED GRADES SHALL NOT IMPACT OFFSITE DRAINAGE AND SHALL NOT EXCEED 3:1.
- CONTRACTOR TO DISPOSE OF EXCESS SPOIL.
- VERIFY EXISTING PAVEMENT ELEVATIONS PRIOR TO CONSTRUCTION.
- FIELD VERIFY WATERLINE BEFORE CONSTRUCTION. WATERLINE LOCATION BASED ON "BEAVER CREEK WCID NO.1 WATER DISTRIBUTION SYSTEM T2WB PROJECT NO. 10418 CONTRACT

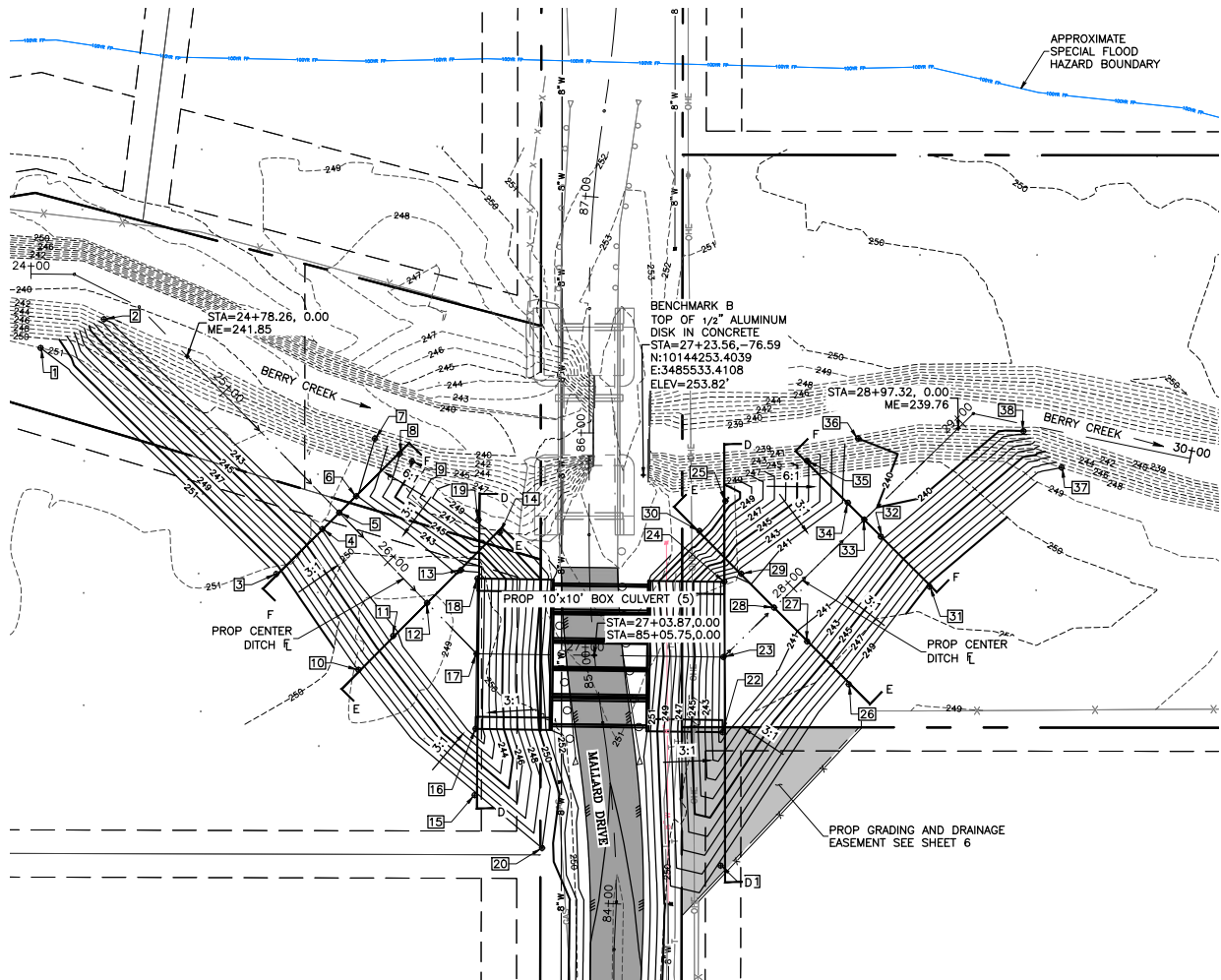
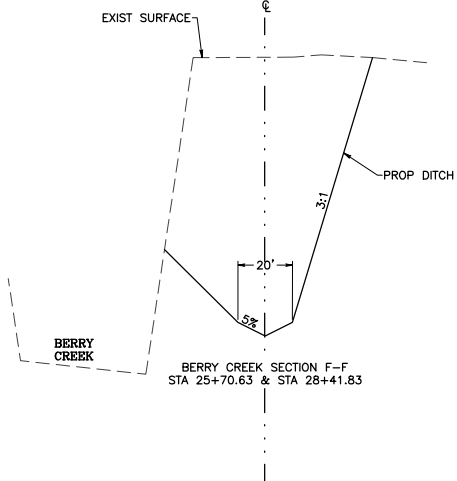
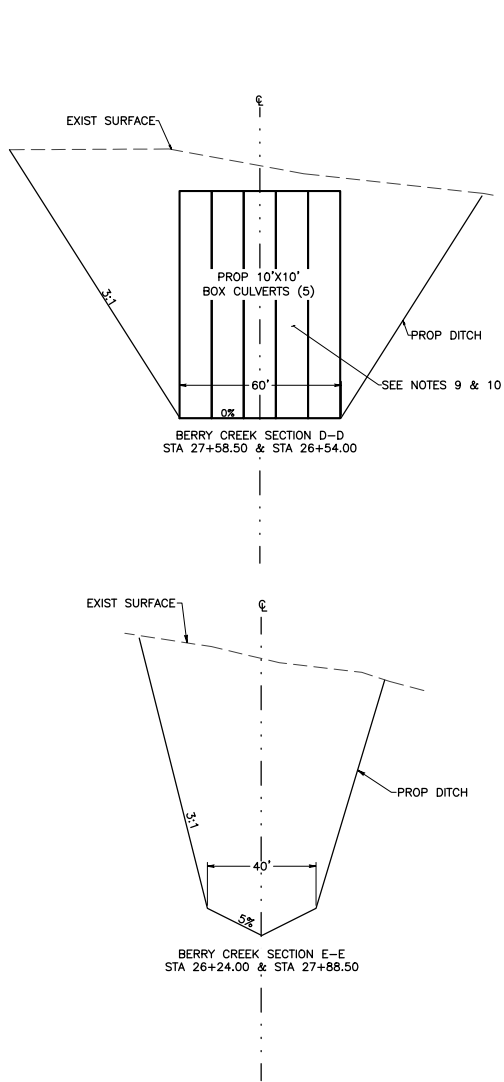
THE DESIGN OF THE PROJECT WILL HAVE NO NEGATIVE EFFECT ON THIS DEVELOPMENT OR ON THE SURFACE WATER ELEVATION AND/ OR THE ADJACENT AREAS.

CULVERTS PLAN AND PROFILE 2 OF 4		BURLESON CO - 24-065-057-E567-STREET-DRAINAGE MALLARD DRIVE BURLESON COUNTY, TEXAS		 <i>David L. Besly</i> 6-25-2024		CULVERTS PLAN AND PROFILE 2 OF 4		BURLESON CO - 24-065-057-E567-STREET-DRAINAGE MALLARD DRIVE BURLESON COUNTY, TEXAS		 <i>David L. Besly</i> 6-25-2024		BLEYL ENGINEERING PLANNING • DESIGN • MANAGEMENT 1722 Broadmoor, Suite 210, Bryan Tx 77802 Texas Firm Registration No. F-678 Tel. 979-268-1125 Fax 979-260-3849 www.bleylengineering.com		PREPARED FOR: BURLESON COUNTY 100 WEST BUCK CALDWELL, TX, 77836		REV DATE BY APPROVED COMMENT	
--	--	---	--	---	--	--	--	---	--	---	--	--	--	---	--	---	--



CL FL ME TB TOE TP	CENTERLINE FLOWLINE MATCH EXIST TOP OF BANK TOE OF SLOPE TOP OF PAVEMENT
	SURVEY BENCHMARK
	PROPOSED ROADWAY
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING RIGHT DITCH ℄
	EXISTING LEFT DITCH ℄
	PROPOSED RIGHT DITCH ℄
	PROPOSED LEFT DITCH ℄

	CULVERTS PLAN AND PROFILE		SHEET NO: 13357		DATE	BY	APP	COMMENT
	3 OF 4							
	BURLERSON CO -							
	24-065-057-E567-STREET-DRAINAGE							
	MALLARD DRIVE							
	BURLERSON COUNTY, TEXAS							
BLEYL ENGINEERING PLANNING • DESIGN • MANAGEMENT 1722 Broadmoor, Suite 210, Bryan Tx 77802 <i>Texas Firm Registration No. F-678</i> Tel. 979-268-1125 Fax 979-260-3849 www.bleylengineering.com		AUSTIN BRYAN CONROE HOUSTON		PREPARED FOR: BURLERSON COUNTY 100 WEST BUCK CALDWELL, TX. 77836				



LEGEND

CL CENTERLINE
FL FLOWLINE
ME MATCH EXIST
TB TOE OF BANK
TOE TOE OF SLOPE
TP TOP OF PAVEMENT

SURVEY BENCHMARK

PROPOSED ROADWAY

EXISTING CONTOUR

PROPOSED CONTOUR

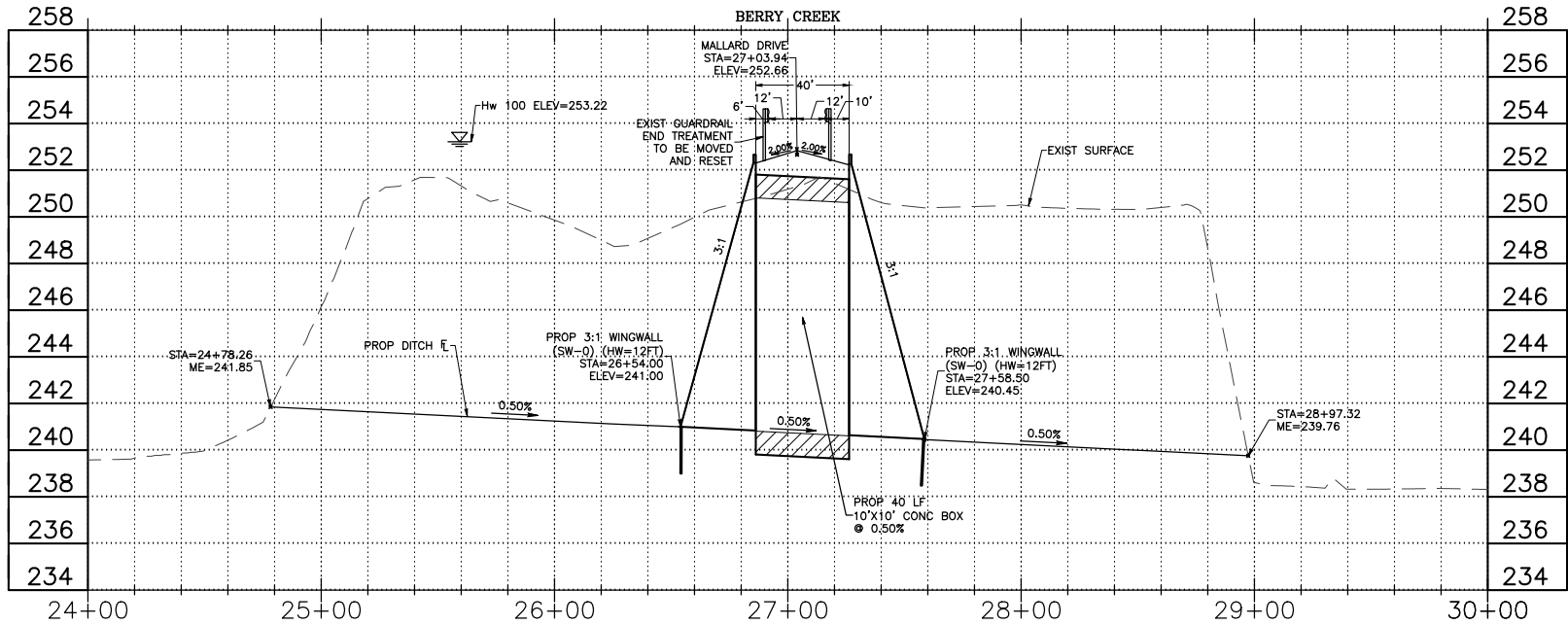
PROPOSED CENTER DITCH

- NOTES:
- GRADE SITE FOR POSITIVE DRAINAGE.
 - FINISHED GRADES SHALL NOT IMPACT OFFSITE DRAINAGE AND SHALL NOT EXCEED 3:1.
 - CONTRACTOR TO DISPOSE OF EXCESS SPOIL.
 - VERIFY EXISTING PAVEMENT ELEVATIONS PRIOR TO CONSTRUCTION.
 - FIELD VERIFY WATERLINE BEFORE CONSTRUCTION. WATERLINE LOCATION BASED ON "BEAVER CREEK WOOD NO.1 WATER DISTRIBUTION SYSTEM TWOB PROJECT NO. 10418 CONTRACT NO.3"
 - 6:1 FOR SLOPES PERPENDICULAR TO BERRY CREEK FLOW.
 - STA 27+03.87 BERRY CREEK = STA 85+05.75 MALLARD DR.
 - HW = H+T+C-3" -> 120"+10"+9"-3" = 136"-> 11.33' -> HW=12'
 - SEE SHEET 24 FOR BOX CULVERT DETAILS.
 - CEMENT STABILIZED SAND (CSS) SHALL BE PLACED BETWEEN EACH BOX CULVERT IN ACCORDANCE WITH TxDOT DETAIL SCP-MD, ESTIMATED AT 30 CY.

THE DESIGN OF THE PROJECT WILL HAVE NO NEGATIVE EFFECT ON THIS DEVELOPMENT OR ON THE SURFACE WATER ELEVATION AND/OR THE ADJACENT PROPERTIES.

POINT TABLE		
POINT NO.	DESC.	STA (OFF) (ELEV)
1	TB	24+04.41 (31.33R) (251.00)
2	TOE	24+38.18 (11.32R) (242.00)
3	TB	25+70.63 (37.23R) (250.83)
4	TOE	25+70.63 (10.00R) (241.89)
5	FL	25+70.63 (0.00) (241.39)
6	TOE	25+70.63 (10.00L) (241.89)
7	TOE	25+58.70 (32.60L) (242.00)
8	TB	25+70.63 (35.70L) (243.99)
9	TB	25+76.61 (37.19L) (244.99)
10	TB	26+24.00 (40.59R) (248.96)
11	TOE	26+24.00 (20.00R) (242.13)
12	FL	26+24.00 (0.00) (241.13)
13	TOE	26+24.00 (20.00L) (242.13)
14	TB	26+24.00 (42.78L) (250.06)
15	TB	26+54.00 (59.89R) (249.45)
16	TOE (WINGWALL)	26+54.00 (31.83R) (241.00)
17	FL	26+54.00 (0.00) (241.00)
18	TOE (WINGWALL)	26+54.00 (31.83L) (241.00)
19	TB	26+54.00 (56.67L) (249.42)
20	TB	26+82.82 (81.92R) (249.00)

POINT TABLE		
POINT NO.	DESC.	STA (OFF) (ELEV)
21	TB	27+58.50 (88.35R) (249.35)
22	TOE (WINGWALL)	27+58.50 (31.83R) (240.45)
23	FL	27+58.50 (0.00) (240.45)
24	TOE (WINGWALL)	27+58.50 (31.83L) (240.45)
25	TB	27+58.50 (66.69L) (251.08)
26	TB	27+88.50 (45.31R) (249.71)
27	TOE	27+88.50 (20.00R) (241.30)
28	FL	27+88.50 (0.00) (240.30)
29	TOE	27+88.50 (20.00L) (241.30)
30	TB	27+88.50 (45.28L) (251.33)
31	TB	28+41.83 (39.55R) (250.29)
32	TOE	28+41.83 (10.00R) (240.54)
33	FL	28+41.83 (0.00) (240.04)
34	TOE	28+41.83 (10.00L) (240.54)
35	TB	28+41.83 (34.87L) (244.17)
36	TB	28+63.89 (26.45L) (240.00)
37	TB	29+47.43 (14.79R) (248.00)
38	TOE	29+28.52 (2.94R) (240.01)



REV	DATE	BY	APP	COMMENT

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

PREPARED FOR:

BLEYL ENGINEERING

PLANNING • DESIGN • MANAGEMENT

1722 Broadmoor, Suite 210, Bryan Tx 77802

Texas Firm Registration No. F-678

Tel. 979-268-1125 Fax 979-260-3849

www.bleylengineering.com

AUSTIN BRYAN CONROE HOUSTON

CULVERTS PLAN AND PROFILE

4 OF 4

BURLESON CO -

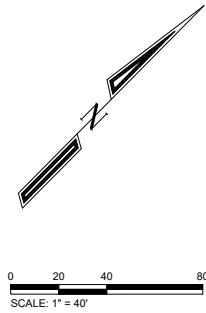
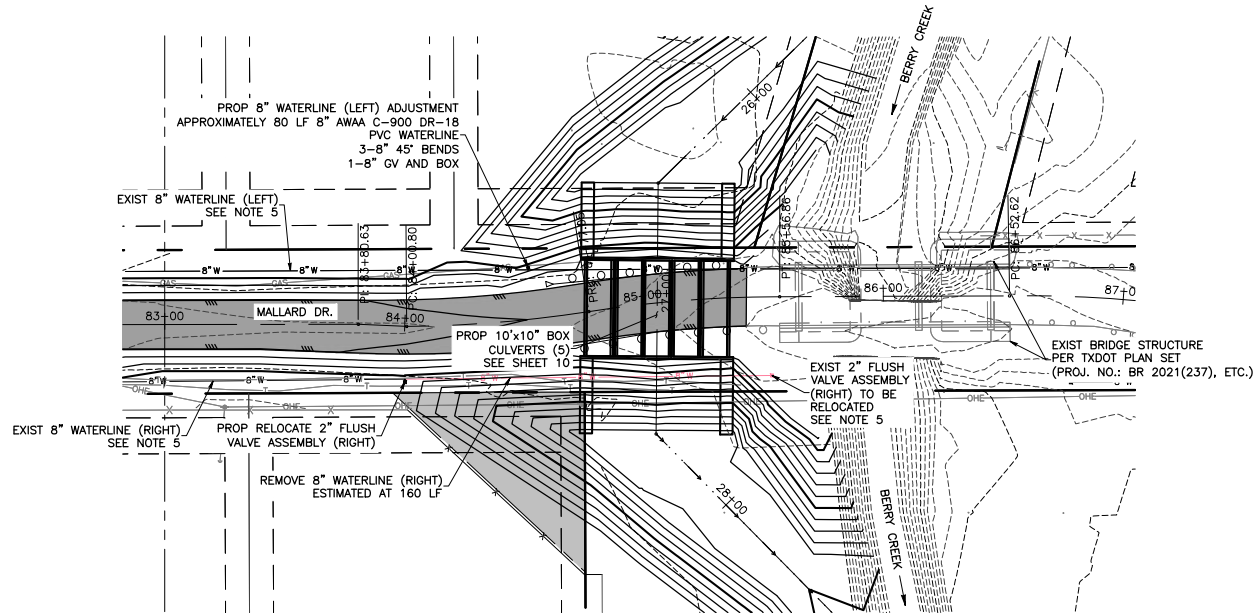
24-065-057-E567-STREET-DRAINAGE

MALLARD DRIVE

BURLESON COUNTY, TEXAS

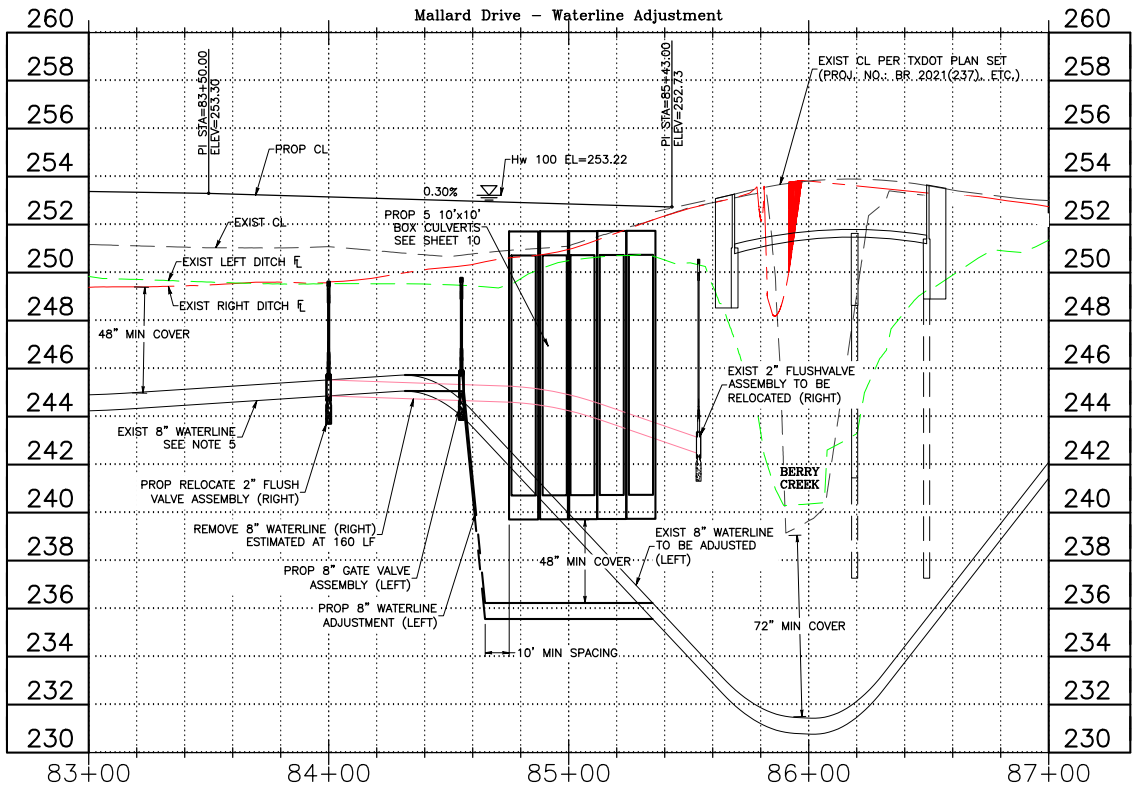


DESIGN: CS	
CAD: JG	RVW: DLB
PROJECT NO: 13357	
SHEET: 10	OF: 30



LEGEND	
CL	CENTERLINE
FL	FLOWLINE
ME	MATCH EXIST
TB	TOP OF BANK
TOE	TOE OF SLOPE
TP	TOP OF PAVEMENT
	SURVEY BENCHMARK
	PROPOSED ROADWAY
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING RIGHT DITCH
	EXISTING LEFT DITCH
	PROPOSED RIGHT DITCH
	PROPOSED LEFT DITCH
	PROPOSED CENTER DITCH

- NOTES:
1. GRADE SITE FOR POSITIVE DRAINAGE.
 2. FINISHED GRADES SHALL NOT IMPACT OFFSITE DRAINAGE AND SHALL NOT EXCEED 3:1.
 3. CONTRACTOR TO DISPOSE OF EXCESS SPOIL.
 4. VERIFY EXISTING PAVEMENT ELEVATIONS PRIOR TO CONSTRUCTION.
 5. FIELD VERIFY WATERLINE BEFORE CONSTRUCTION. WATERLINE LOCATION BASED ON "BEAVER CREEK WCD NO.1 WATER DISTRIBUTION SYSTEM TWDB PROJECT NO. 10418 CONTRACT NO.3"
 6. COORDINATE WATERLINE CONSTRUCTION WITH "BEAVER CREEK WCD NO.1 WATER DISTRIBUTION SYSTEM TWDB PROJECT NO. 10418 CONTRACT NO.3"
- THE DESIGN OF THE PROJECT WILL HAVE NO NEGATIVE EFFECT ON THIS DEVELOPMENT OR ON THE SURFACE WATER ELEVATION AND/OR THE ADJACENT PROPERTIES.



REV	DATE	BY	APP	COMMENT

PREPARED FOR:

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

BLEYL ENGINEERING

PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

AUSTIN

BRYAN

CONROE

HOUSTON

WATERLINE ADJUSTMENT

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS

6-25-2024

DESIGN: CS

CAD: JG | RWV: DLB

PROJECT NO: 13357

SHEET: 11 OF: 30

ORIGINAL LAYOUT SIZE - 22X34

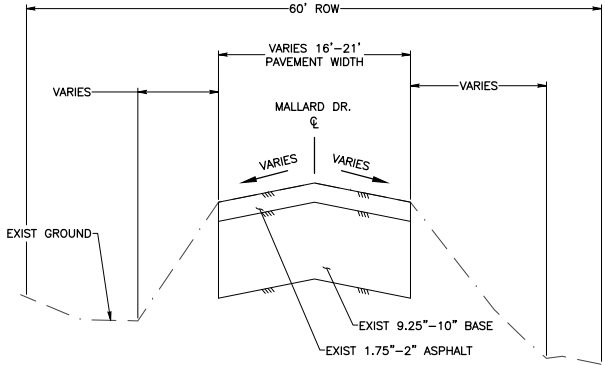
6/25/2025 9:04:13 AM
Z:\13300\13357 BURLESON-GLO CDBG MIT MOD\04 CAD\CD-13357\MALLARD_DR\4 - PLAN & PROFILE.DWG

JGORDON

BLEYL ENGINEERING

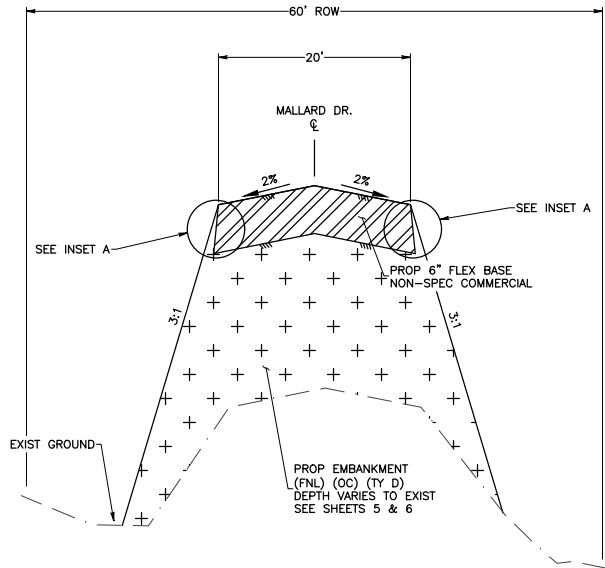
EXISTING TYPICAL SECTION A-A

STA 71+35 TO STA 84+26
N.T.S.



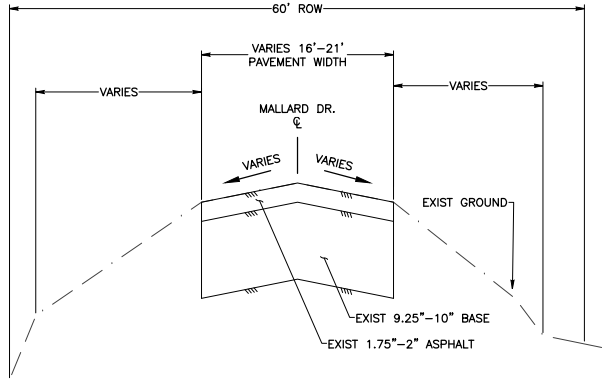
PROPOSED TYPICAL SECTION A-A

STA 71+35 TO STA 84+26
N.T.S.



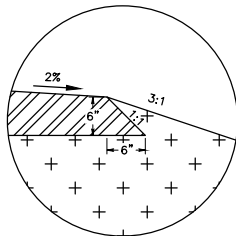
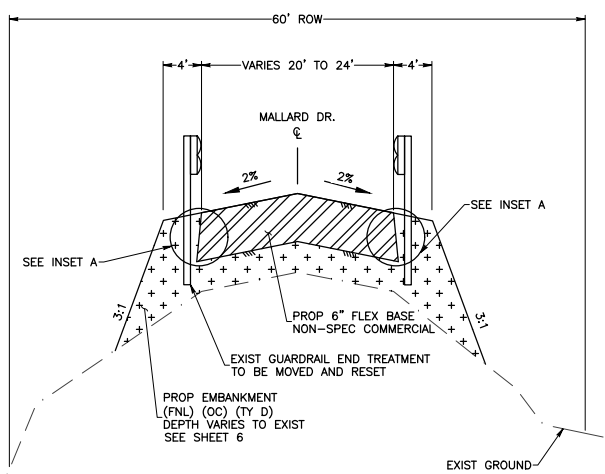
EXISTING TYPICAL SECTION B-B

STA 84+26 TO STA 84+76
N.T.S.



PROPOSED TYPICAL SECTION B-B

STA 84+26 TO STA 84+76
N.T.S.

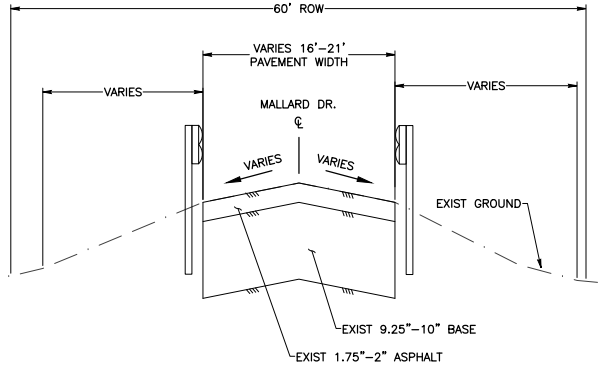


INSET A

SCALE: NTS

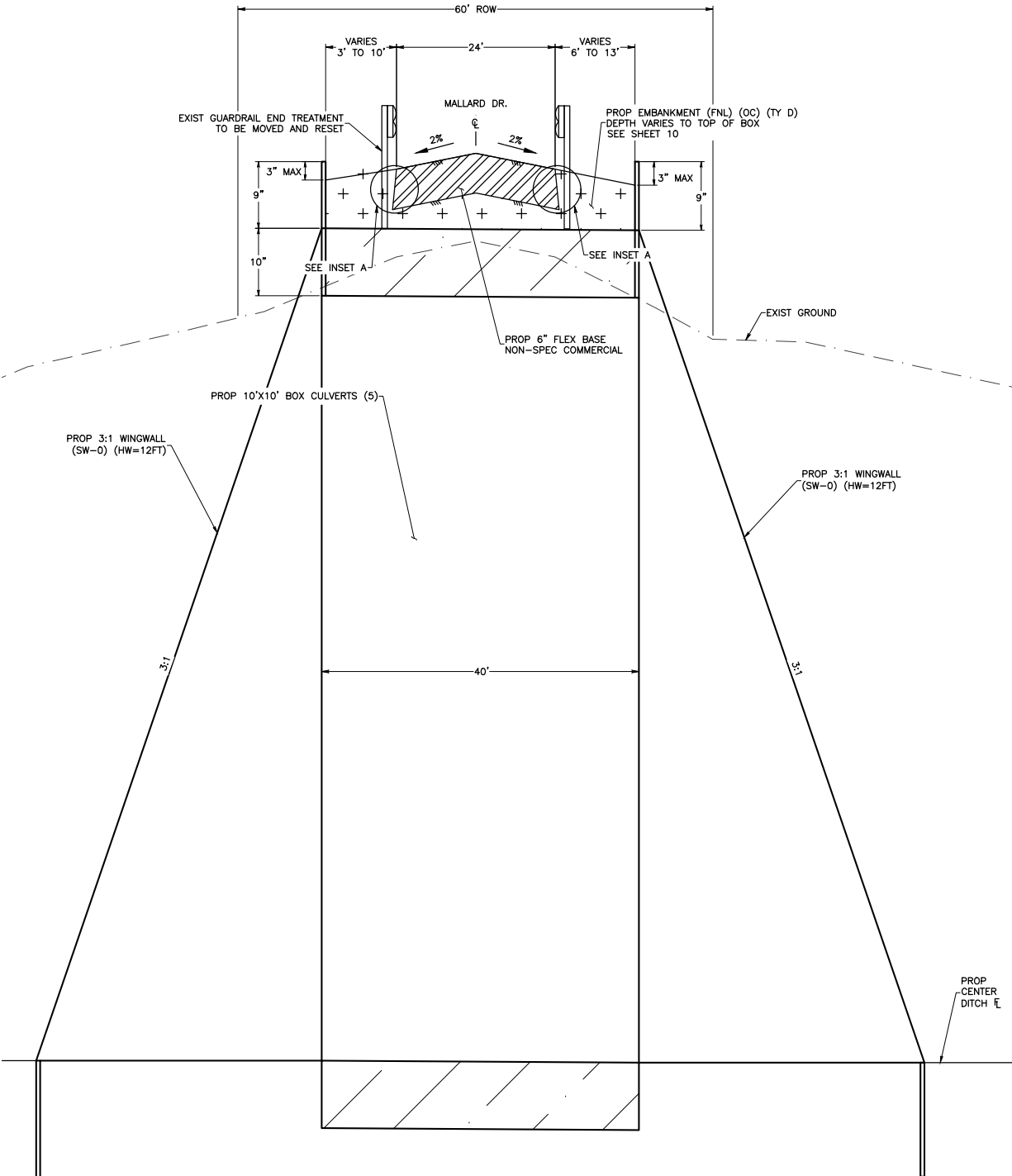
EXISTING TYPICAL SECTION C-C

STA 84+76 TO STA 85+43
N.T.S.



PROPOSED TYPICAL SECTION C-C

STA 84+76 TO STA 85+43
N.T.S.



REV	DATE	BY	APP	COMMENT

PREPARED FOR:

BLEYL ENGINEERING

PLANNING • DESIGN • MANAGEMENT

1722 Broadmoor, Suite 210, Bryan Tx 77802

Texas Firm Registration No. F-678

Tel. 979-268-1125 Fax 979-260-3849

www.bleylengineering.com

AUSTIN BRYAN CONROE HOUSTON

TYPICAL SECTIONS

BURLESON CO -

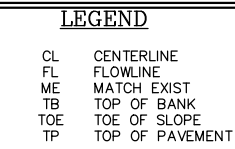
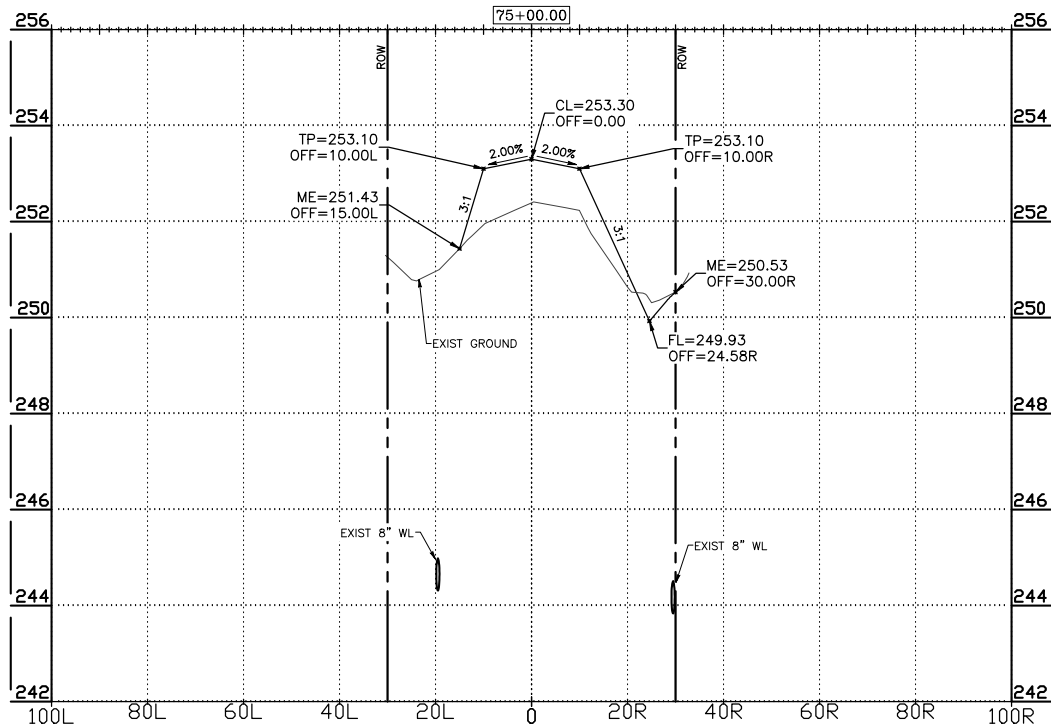
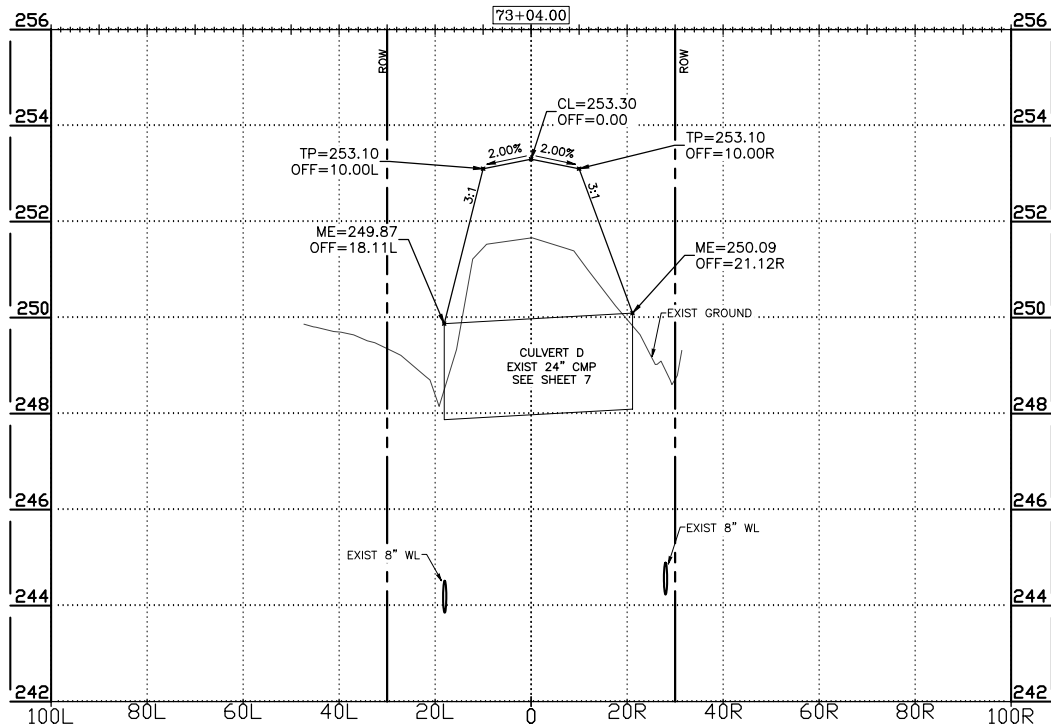
24-065-057-E567-STREET-DRAINAGE

MALLARD DRIVE

BURLESON COUNTY, TEXAS



DESIGN: CS	
CAD: JG	RVW: DLB
PROJECT NO: 13357	
SHEET: 12	OF: 30



REV	DATE	BY	APP	COMMENT

BLEYL ENGINEERING

PLANNING • DESIGN • MANAGEMENT
222 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bbleylengineering.com

ALLISTON	BRYAN	CANBOE	HOLLISTON
----------	-------	--------	-----------

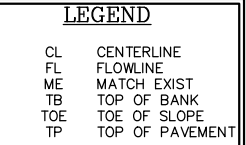
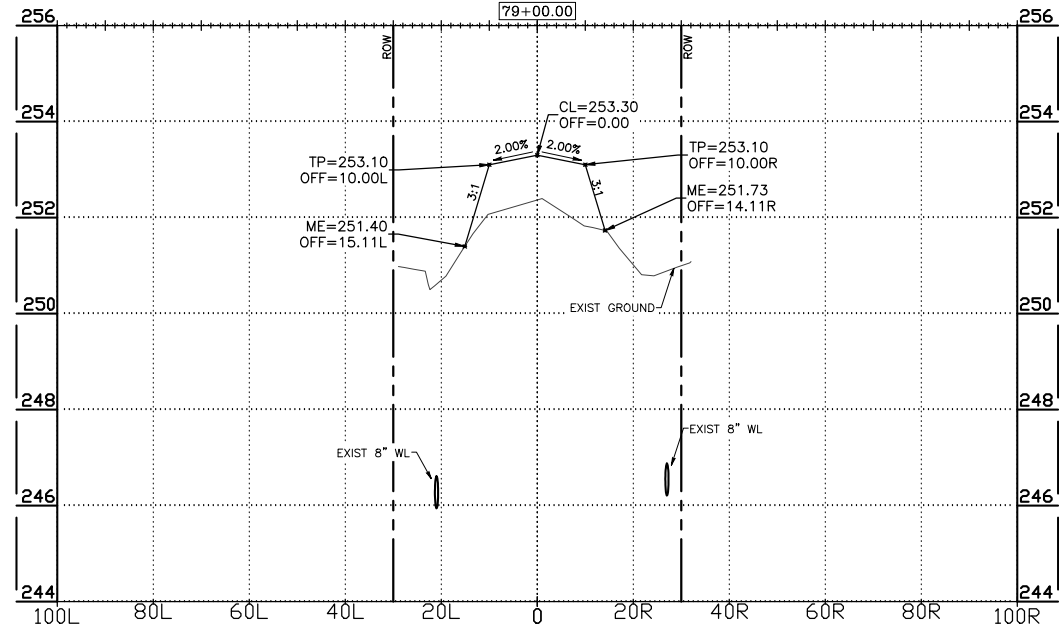
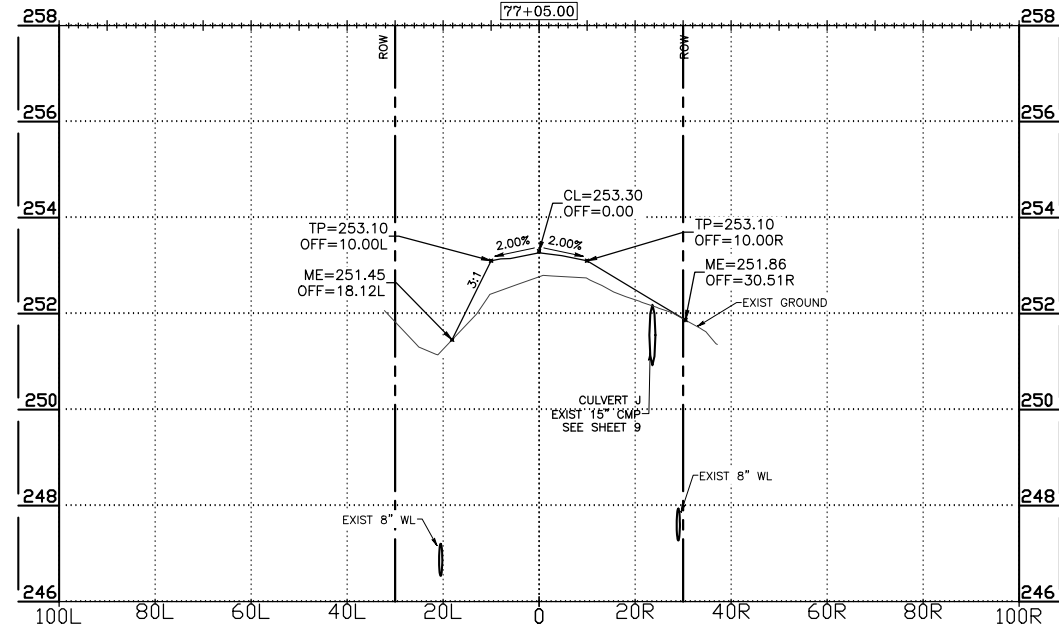
MALLARD DRIVE SECTIONS 1 OF 4

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS



Wm L Bessy
6-25-2024

DESIGN: CS	
CAD: JG	RVW: DLB
PROJECT NO: 13357	
SHEET: 13	OF: 30

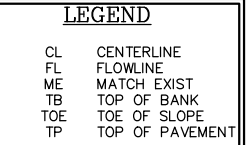
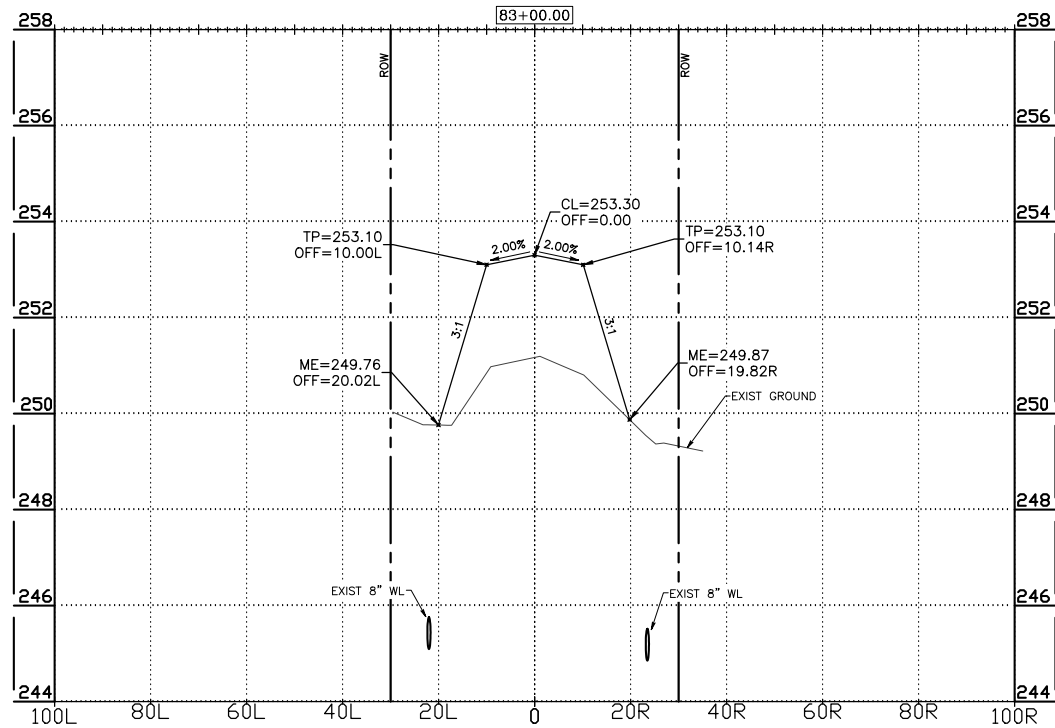
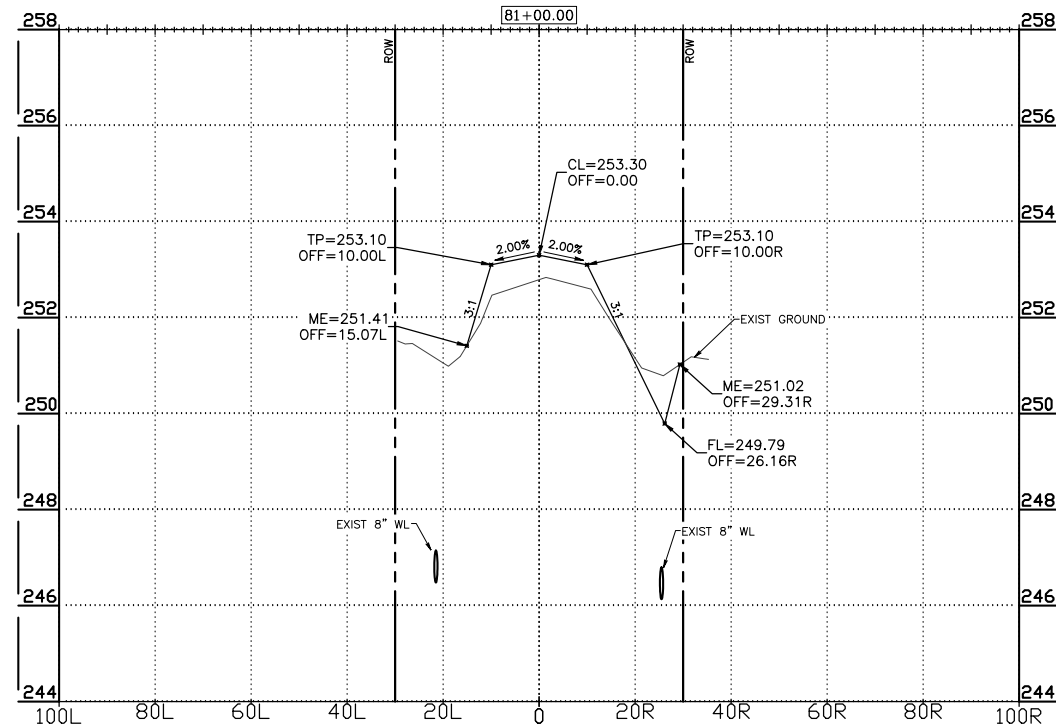


REV	DATE	BY	APP	COMMENT



DESIGN: CS	
CAD: JG	RVW: DLB
PROJECT NO: 13357	
SHEET: 14	OF: 30

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836



	REV	DATE	BY	APP	COMMENT

BLEYL ENGINEERING



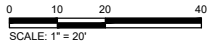
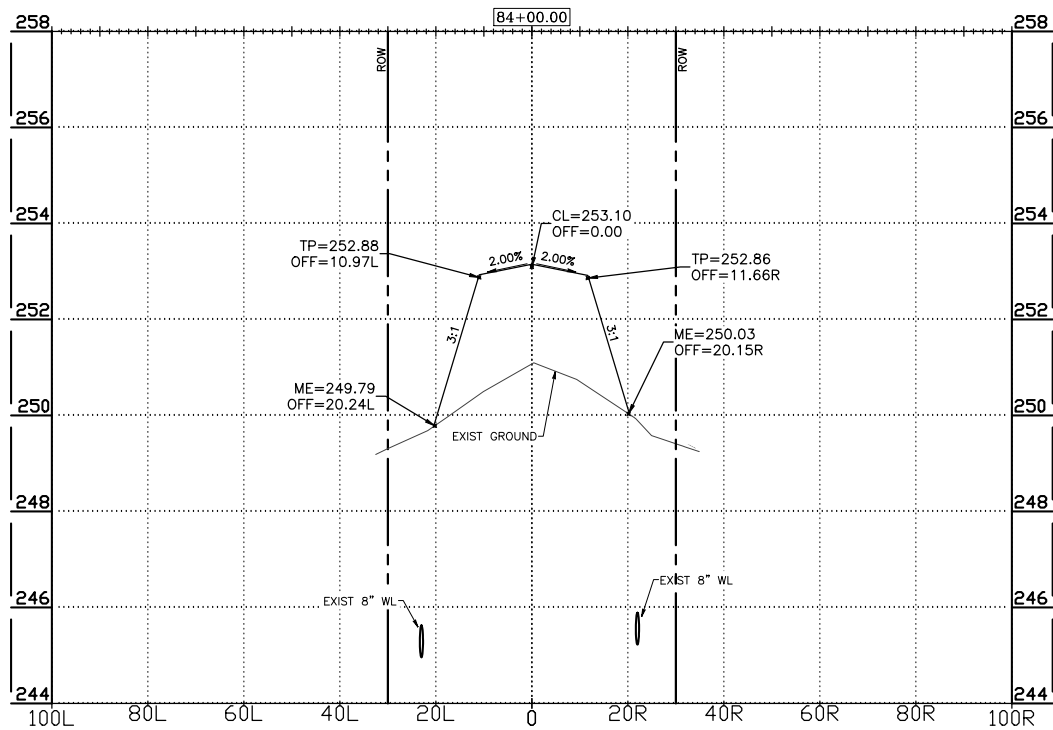
DESIGN: CS	
CAD: JG	RVW: DLB
PROJECT NO: 13357	
SHEET: 15	OF: 30

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS

AUSTIN BRYAN CONROE HOUSTON



LEGEND	
CL	CENTERLINE
FL	FLOWLINE
ME	MATCH EXIST
TB	TOP OF BANK
TOE	TOE OF SLOPE
TP	TOP OF PAVEMENT

PREPARED FOR:

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

BLEYL ENGINEERING

PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

AUSTIN BRYAN CONROE HOUSTON

MALLARD DRIVE SECTIONS 4 OF 4

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS

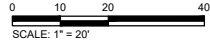
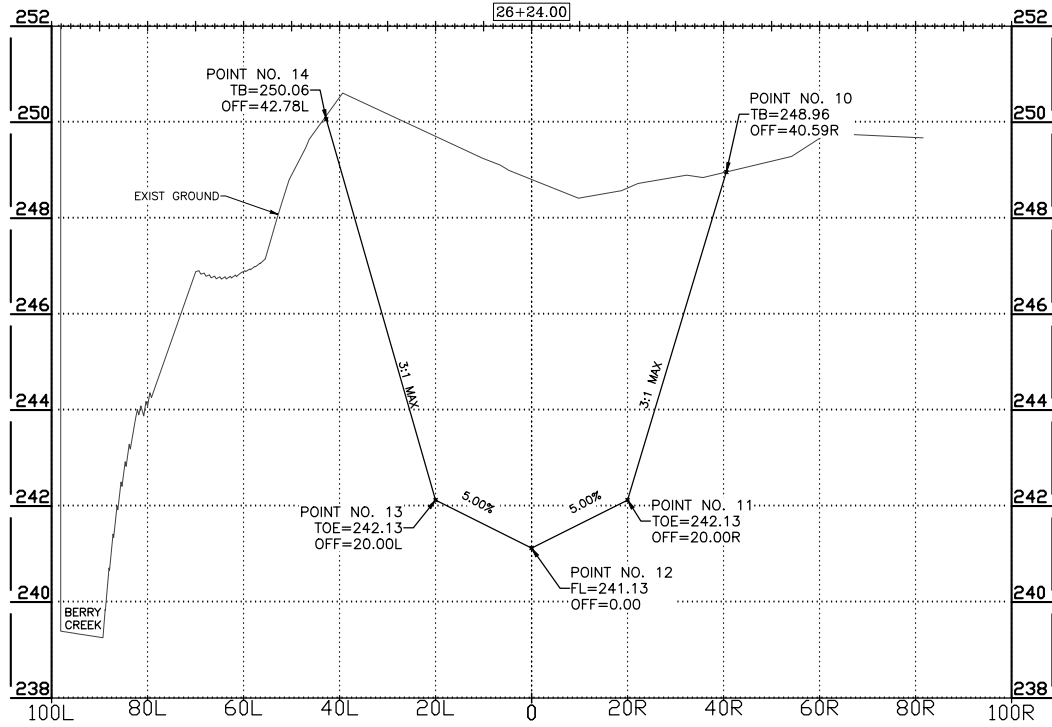
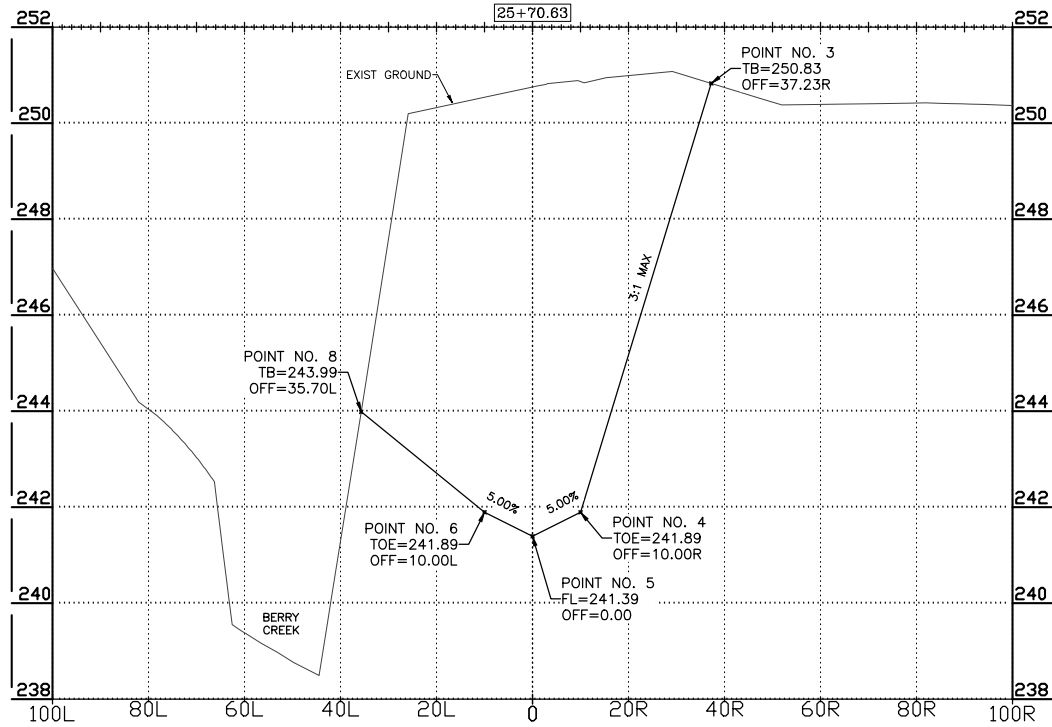


David L. Besly
6-25-2024

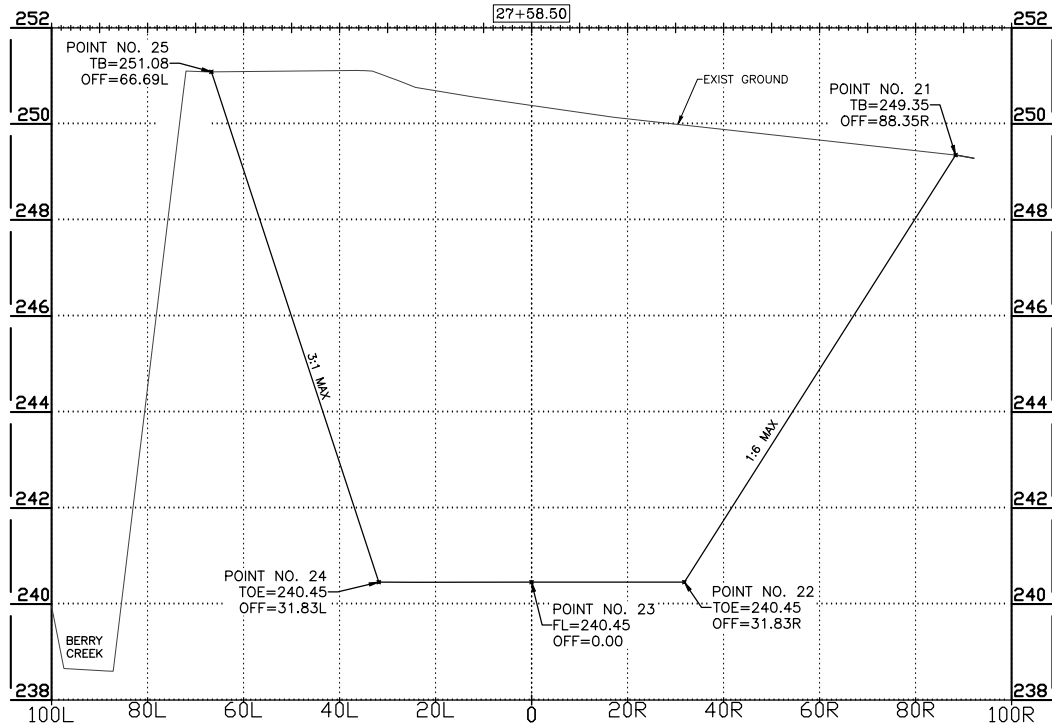
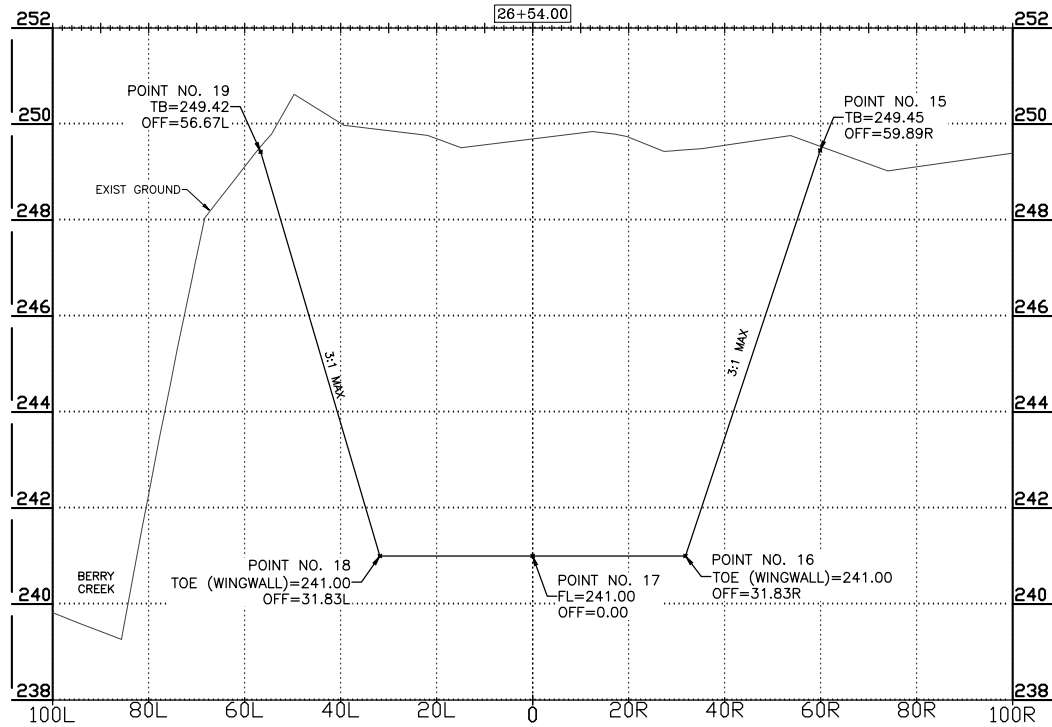
DESIGN: CS	
CAD: JG	RVW: DLB
PROJECT NO: 13357	
SHEET: 16	OF: 30

6/25/2025 9:05:19 AM
Z:\13300\13357 BURLESON-GLO CDBG MIT MOD\04 CAD\CD-13357\MALLARD_DRY.8 - SECTIONS.DWG
JGORDON

BLEYL ENGINEERING



LEGEND	
CL	CENTERLINE
FL	FLOWLINE
ME	MATCH EXIST
TB	TOP OF BANK
TOE	TOE OF SLOPE
TP	TOP OF PAVEMENT



PREPARED FOR:

BLEYL ENGINEERING

PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

AUSTIN BRYAN CONROE HOUSTON

BERRY CREEK SECTIONS 1 OF 2

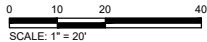
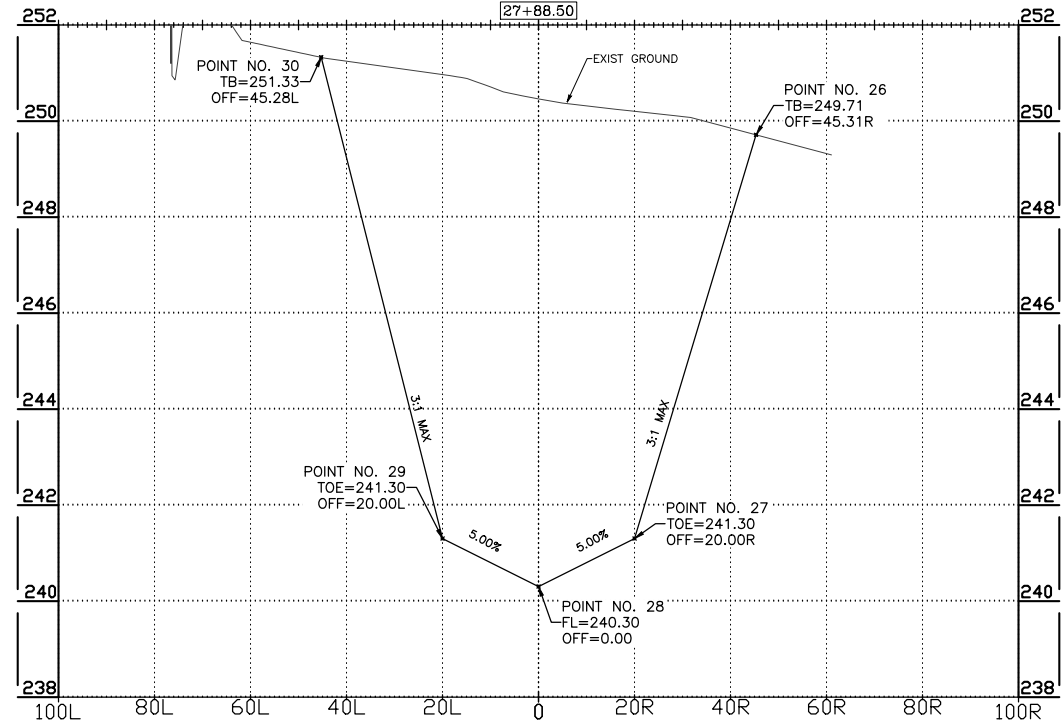
BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS



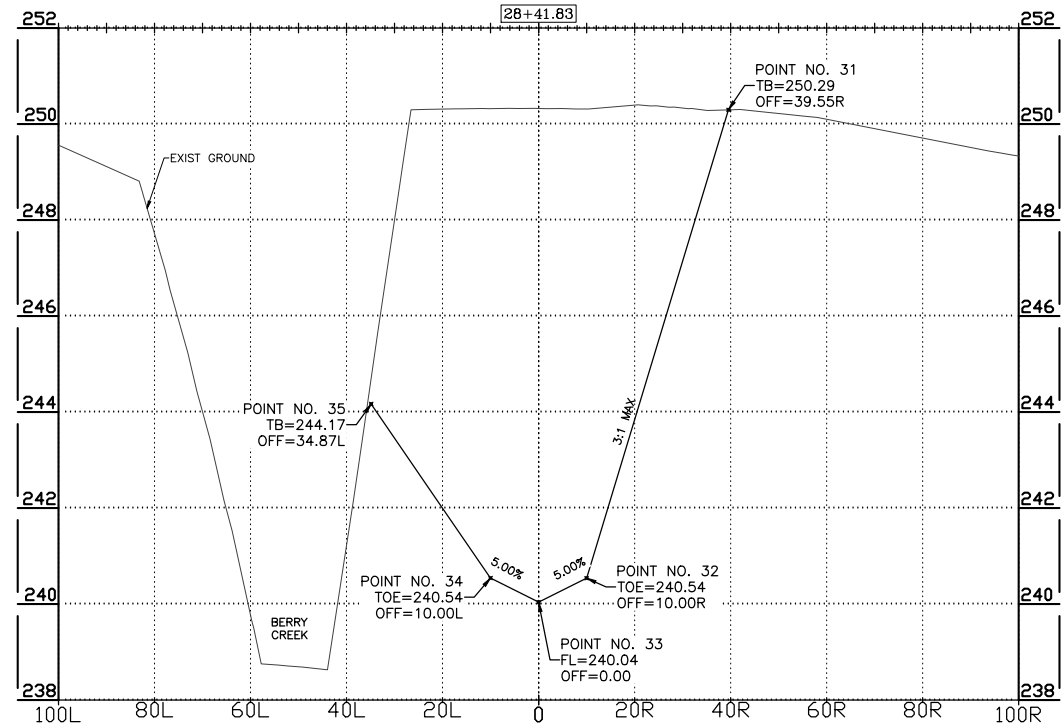
David L. Besly
6-25-2024

DESIGN: CS
CAD: JG | RWV: DLB
PROJECT NO: 13357
SHEET: 17 OF: 30

BLEYL ENGINEERING



LEGEND	
CL	CENTERLINE
FL	FLOWLINE
ME	MATCH EXIST
TB	TOP OF BANK
TOE	TOP OF SLOPE
TP	TOP OF PAVEMENT

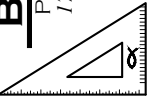


PREPARED FOR:

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

BLEYL ENGINEERING

PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com



BERRY CREEK SECTIONS 2 OF 2

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS



DESIGN: CS	
CAD: JG	RVW: DLB
PROJECT NO: 13357	
SHEET: 18	OF: 30

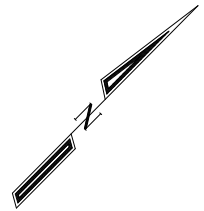
NOTES:
1. TRAFFIC CONTROL PLAN IS PROVIDED FOR CONTRACTOR'S CONVENIENCE. CONTRACTOR MAY SUBMIT AN ALTERNATE TRAFFIC CONTROL PLAN SIGNED BY A LICENSED TRAFFIC PROFESSIONAL ENGINEER FOR REVIEW BY BURLESON COUNTY.
2. LOCAL ACCESS SHALL BE MAINTAINED FOR THE EXISTING COUNTY ROADS, CROSS STREETS, AND DRIVEWAYS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DRAINAGE AT ALL TIMES, TO BE SUBSIDIARY TO OTHER BID ITEMS.
4. NOTIFY COUNTY PROJECT MANAGER AND INSPECTOR AT LEAST 2 WEEKS PRIOR TO CLOSING LANES.
5. SEE TEMPORARY SHORING SHEET 21 FOR ADDITIONAL INFORMATION.
MALLARD DRIVE SPEED LIMIT: 35MPH
BERRY CREEK DRIVE SPEED LIMIT: 30MPH

PHASE & STAGE SEQUENCE:
A. GENERALLY CONFORM TO THE FOLLOWING SEQUENCE.
B. INSTALL ALL ADVANCED WARNING SIGNS AS SHOWN IN ACCORDANCE WITH STANDARD SHEETS BC(1)-21 THRU BC(12)-21 AND AS DIRECTED BY THE ENGINEER.

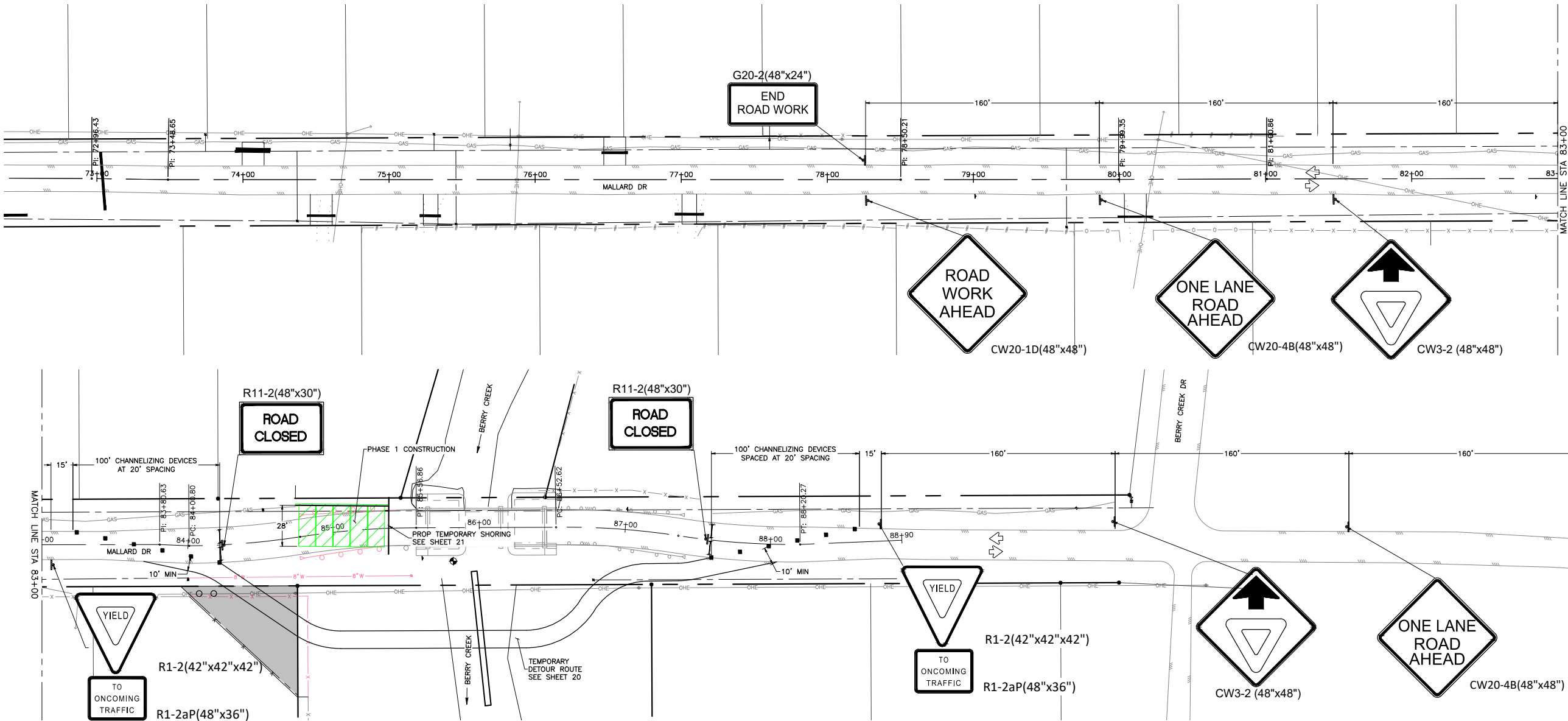
PHASE ONE:
a. CONSTRUCT TEMPORARY DETOUR ROUTE.
b. PLACE TEMPORARY CHANNELIZING DEVICES AS SHOWN IN THE PLANS.
c. CONSTRUCT THE 28LF OF PROPOSED UPSTREAM DRAINAGE MODIFICATIONS.
d. CONSTRUCT THE PROPOSED WATERLINE (LEFT) ADJUSTMENTS.

LEGEND

- WORK ZONE
- SIGN
- CHANNELIZING DEVICE
- TY III BARRICADE
- EXISTING TRAFFIC FLOW
- BENCHMARK



0 20 40 80
SCALE: 1" = 40'



PREPARED FOR:

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

BLEYL ENGINEERING

PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

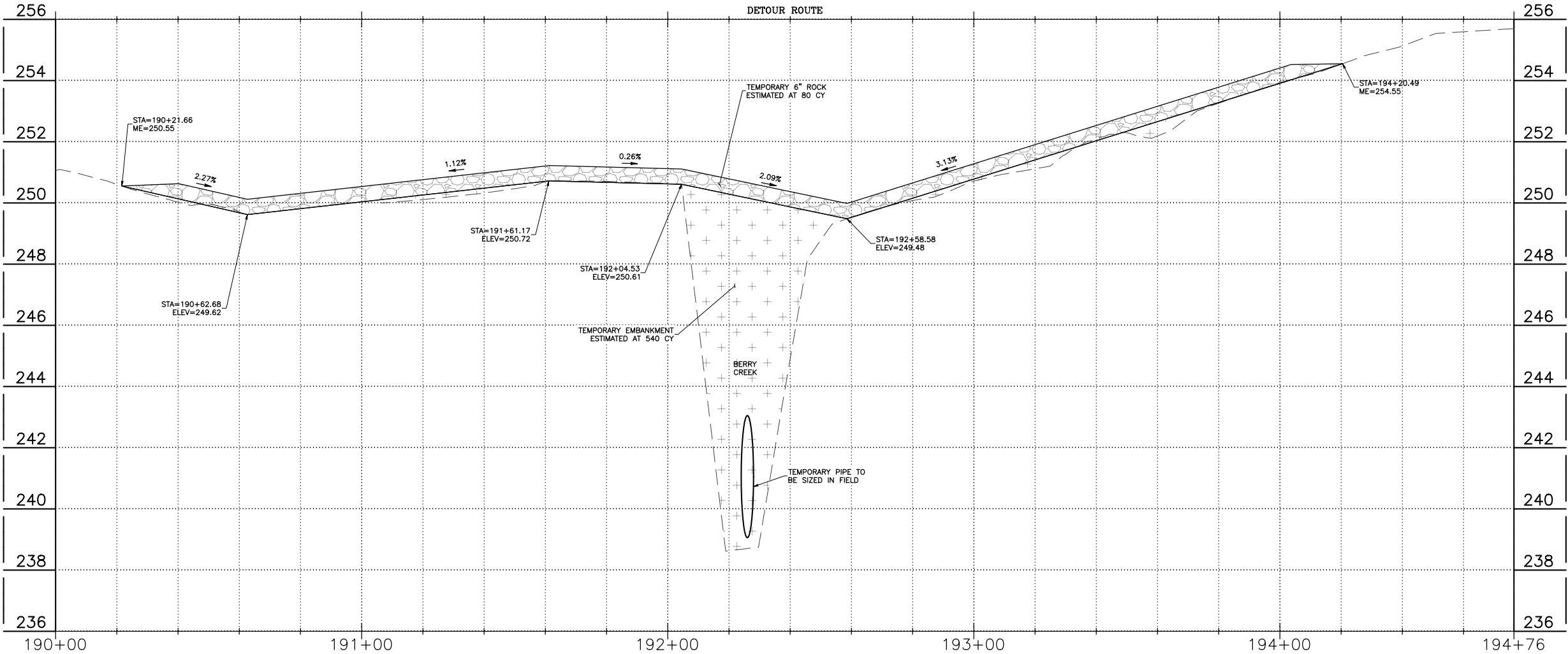
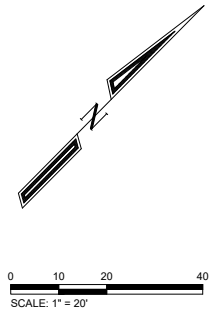
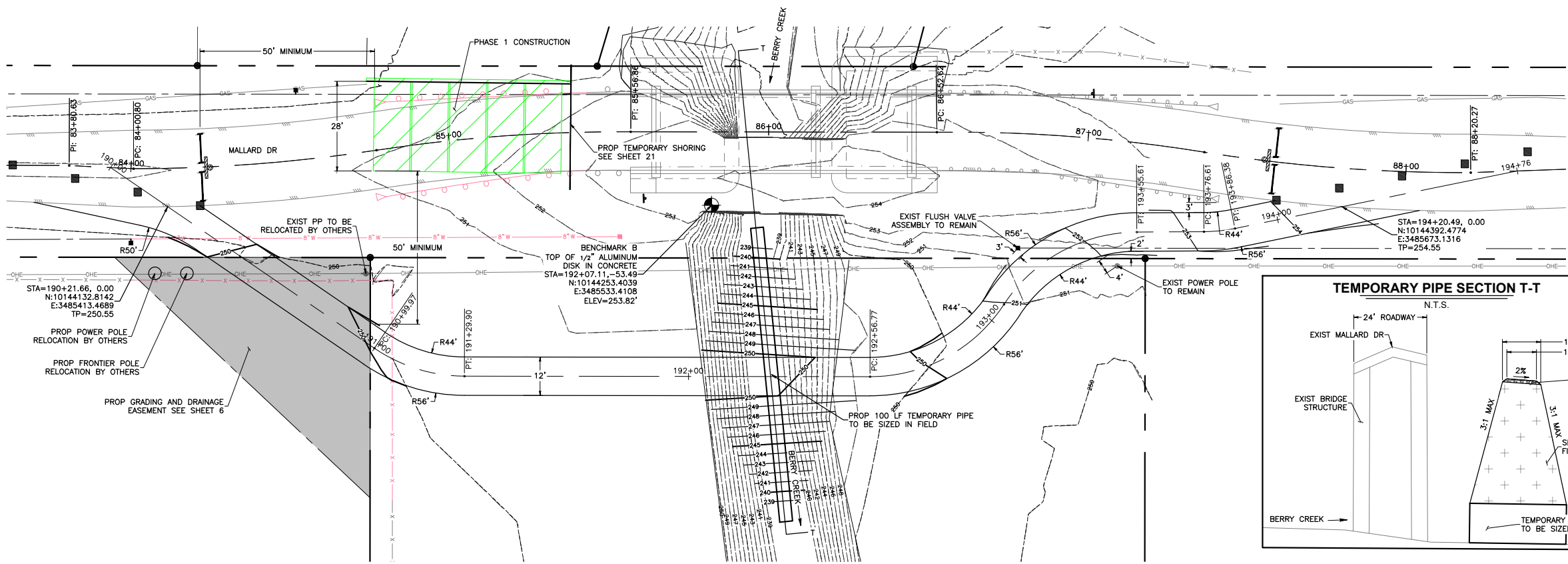
AUSTIN BRYAN CONROE HOUSTON

TRAFFIC CONTROL PLAN - PHASE 1

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS



DESIGN: CS
CAD: JG | RWV: DLB
PROJECT NO: 13357
SHEET: 19 OF: 30



- NOTES:
1. TRAFFIC CONTROL PLAN IS PROVIDED FOR CONTRACTOR'S CONVENIENCE. CONTRACTOR MAY SUBMIT AN ALTERNATE TRAFFIC CONTROL PLAN SIGNED BY A LICENSED TRAFFIC PROFESSIONAL ENGINEER FOR REVIEW BY BURLESON COUNTY.
 2. LOCAL ACCESS SHALL BE MAINTAINED FOR THE EXISTING COUNTY ROADS, CROSS STREETS, AND DRIVEWAYS.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DRAINAGE AT ALL TIMES, TO BE SUBSIDIARY TO OTHER BID ITEMS.
 4. NOTIFY COUNTY PROJECT MANAGER AND INSPECTOR AT LEAST 2 WEEKS PRIOR TO CLOSING LANES.
 5. SEE TEMPORARY SHORING SHEET 21 FOR ADDITIONAL INFORMATION.
- MALLARD DRIVE SPEED LIMIT: 35MPH
BERRY CREEK DRIVE SPEED LIMIT: 30MPH

REV	DATE	BY	APP	COMMENT

PREPARED FOR:
BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

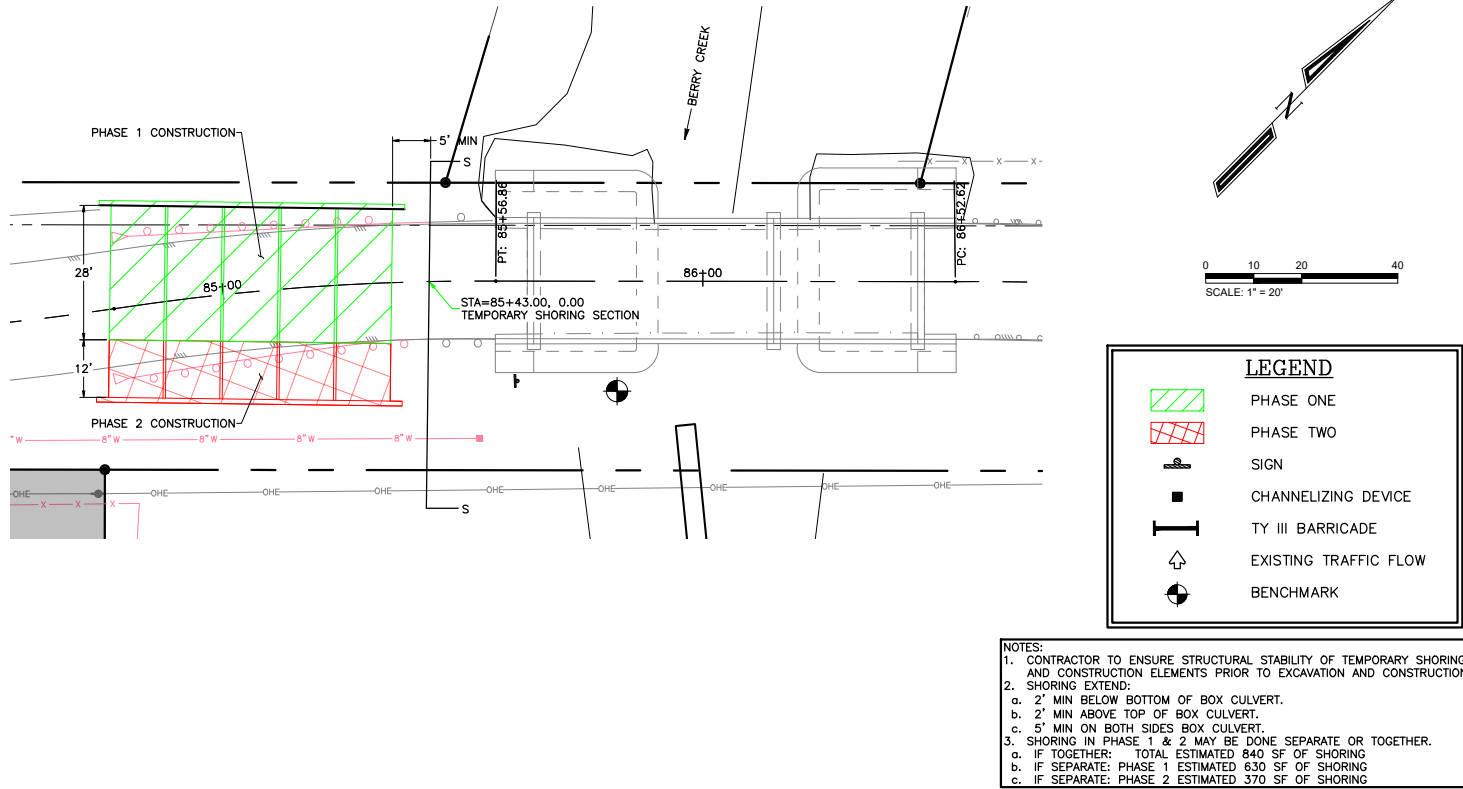
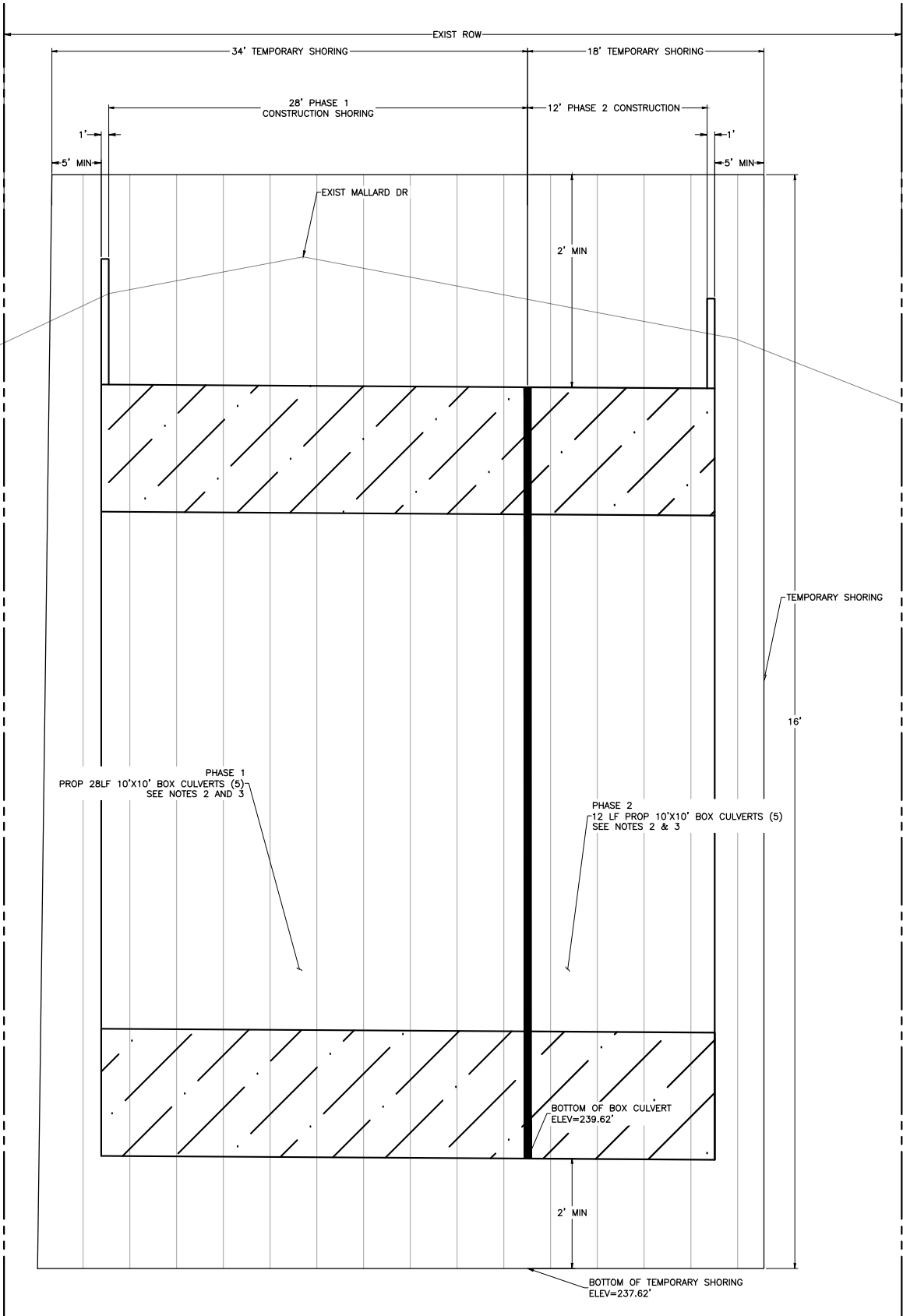
BLEYL ENGINEERING
PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

TEMPORARY DETOUR ROUTE
BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS

STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED PROFESSIONAL ENGINEER
6-25-2024

DESIGN: CS
CAD: JG | RWV: DLB
PROJECT NO: 13357
SHEET: 20 OF: 30

TEMPORARY SHORING
SECTION S-S
STA 85+43
N.T.S.



REV	DATE	BY	APP	COMMENT

PREPARED FOR:

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

BLEYL ENGINEERING
PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

AUSTIN BRYAN CONROE HOUSTON

TEMPORARY SHORING

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS

STATE OF TEXAS
DAVID L. BESLY
81873
LICENSED PROFESSIONAL ENGINEER
David L. Besly
6-25-2024

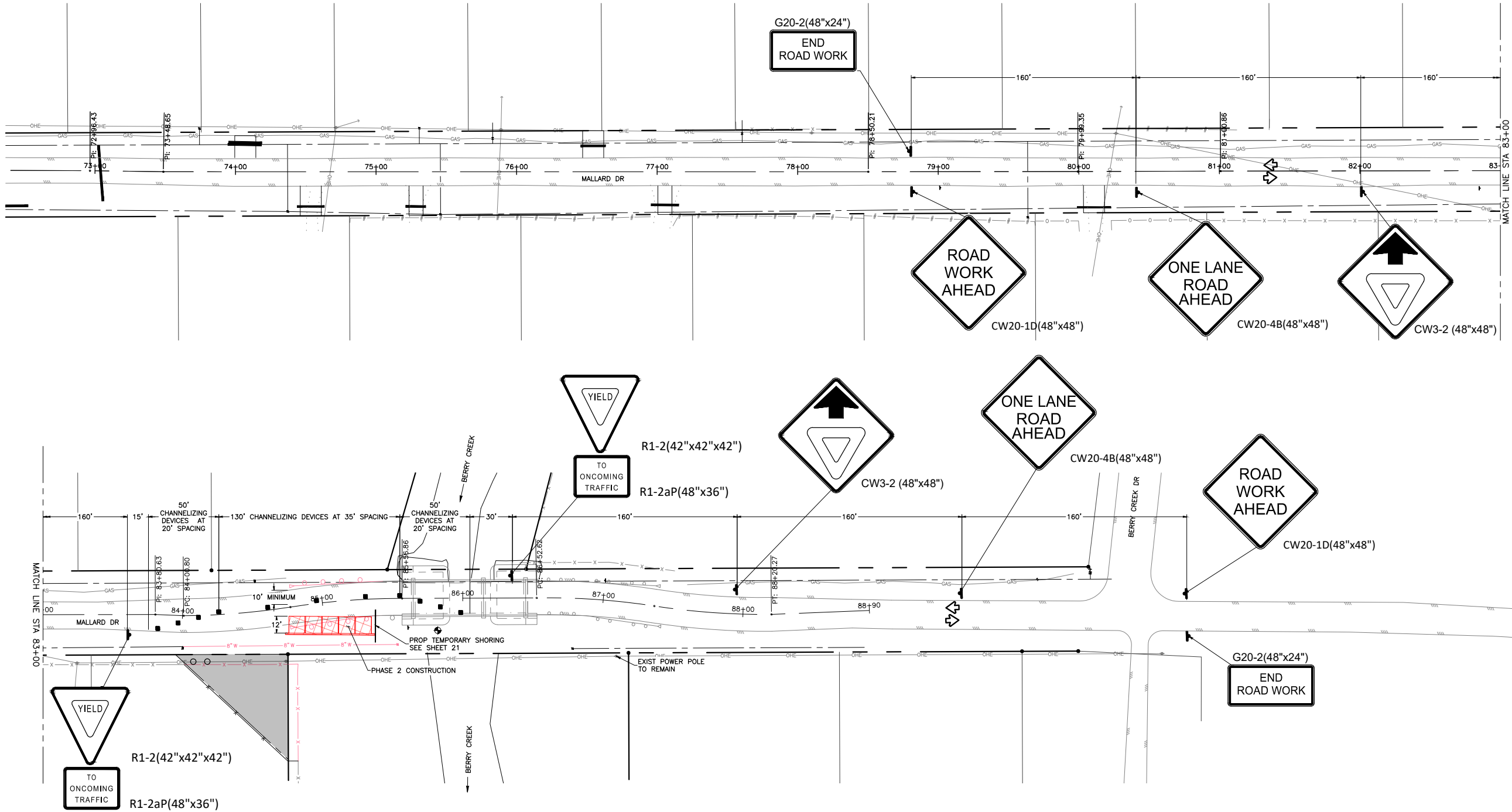
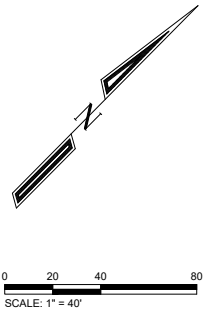
DESIGN: CS
CAD: JG RW: DLB
PROJECT NO: 13357
SHEET: 21 OF: 30

NOTES:
1. TRAFFIC CONTROL PLAN IS PROVIDED FOR CONTRACTOR'S CONVENIENCE. CONTRACTOR MAY SUBMIT AN ALTERNATE TRAFFIC CONTROL PLAN SIGNED BY A LICENSED TRAFFIC PROFESSIONAL ENGINEER FOR REVIEW BY BURLESON COUNTY.
2. LOCAL ACCESS SHALL BE MAINTAINED FOR THE EXISTING COUNTY ROADS, CROSS STREETS, AND DRIVEWAYS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DRAINAGE AT ALL TIMES, TO BE SUBSIDIARY TO OTHER BID ITEMS.
4. NOTIFY COUNTY PROJECT MANAGER AND INSPECTOR AT LEAST 2 WEEKS PRIOR TO CLOSING LANES.
5. SEE TEMPORARY SHORING SHEET 21 FOR ADDITIONAL INFORMATION.
MALLARD DRIVE SPEED LIMIT: 35MPH
BERRY CREEK DRIVE SPEED LIMIT: 30MPH

PHASE & STAGE SEQUENCE:
A. GENERALLY CONFORM TO THE FOLLOWING SEQUENCE.
B. INSTALL ALL ADVANCED WARNING SIGNS AS SHOWN IN ACCORDANCE WITH STANDARD SHEETS BC(1)-21 THRU BC(12)-21 AND AS DIRECTED BY THE ENGINEER.
PHASE TWO:
a. PLACE TEMPORARY CHANNELIZING DEVICES AS SHOWN IN THE PLANS.
b. CONSTRUCT THE 12LF OF PROPOSED DOWNSTREAM DRAINAGE MODIFICATIONS.
c. CONSTRUCT THE PROPOSED WATERLINE (RIGHT) ADJUSTMENTS.

LEGEND

- WORK ZONE
- SIGN
- CHANNELIZING DEVICE
- TY III BARRICADE
- EXISTING TRAFFIC FLOW
- BENCHMARK



PREPARED FOR:

BLEYL ENGINEERING

PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

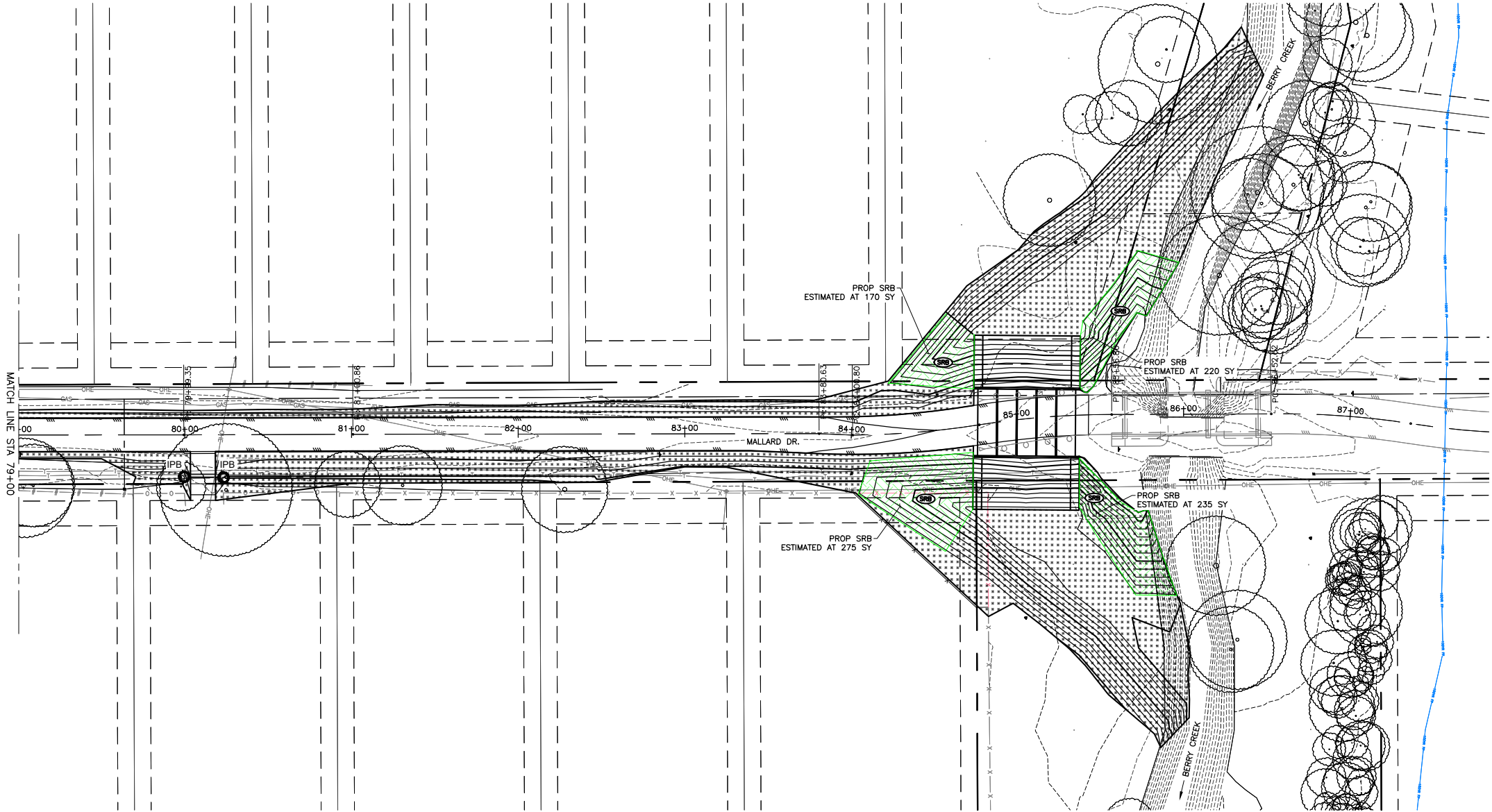
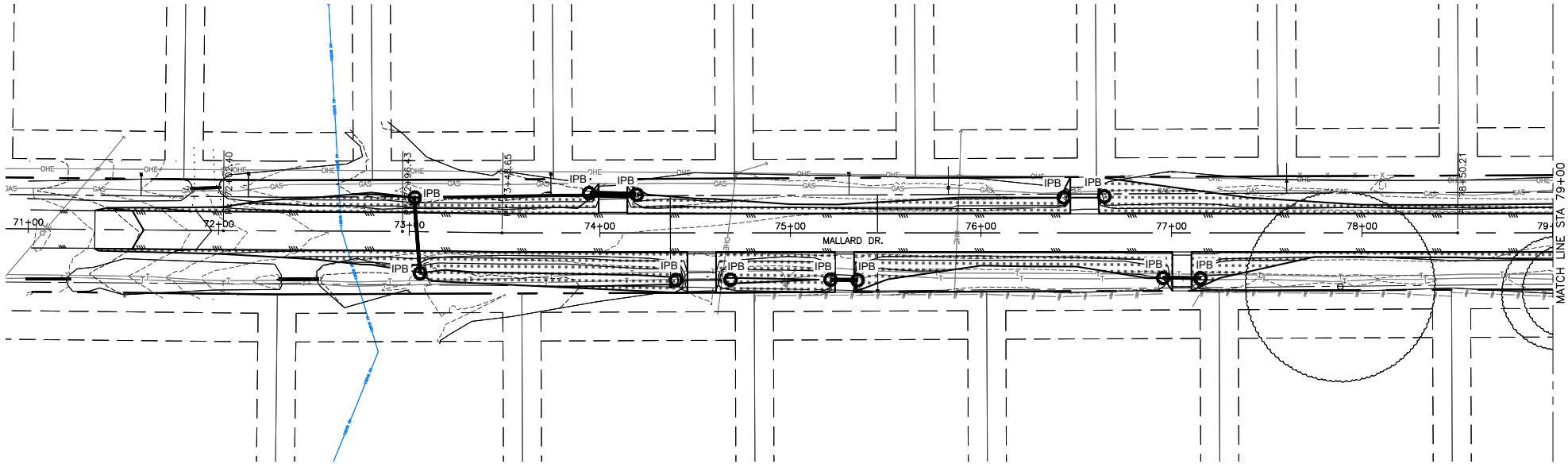
AUSTIN BRYAN CONROE HOUSTON

TRAFFIC CONTROL PLAN - PHASE 2

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS



DESIGN: CS
CAD: JG RWV: DLB
PROJECT NO: 13357
SHEET: 22 OF: 30



LEGEND

 BROADCAST SEED

 SOIL RETENTION BLANKET

 INLET PROTECTION BARRIER

NOTES:

1. CONTRACTOR SHALL RESTORE ANY DISTURBED PAVING OR FACILITIES TO PRE-CONSTRUCTION CONDITIONS OR BETTER AT NO COST TO OWNER.
2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS REQUIRED. STORM SEWER (EXCLUDING CULVERTS) PIPE SHALL BE SMOOTH INTERIOR WALL HP STORM (ADS, OR EQUAL) PIPE WITH WATER TIGHT JOINTS, UNLESS OTHERWISE NOTED.
3. GRADE SITE FOR POSITIVE DRAINAGE.
4. SLOPES OF FINISHED GRADE SHALL NOT EXCEED 3:1.
5. THE FLOWLINE AND GRADE ON ALL PROPOSED CULVERTS TO BE VERIFIED AND SET BY THE REGULATING ENTITY PRIOR TO INSTALLATION.
6. SEED ALL DISTURBED AREAS.
7. IPB PAID FOR AS 6" EROSION CONTROL LOGS.
8. CONTRACTOR TO ENSURE SCF DOES NOT OBSTRUCT WATERS FLOW ALONG BERRY CREEK.

THE DESIGN OF THE PROJECT WILL HAVE NO NEGATIVE EFFECT ON THIS DEVELOPMENT OR ON THE SURFACE WATER ELEVATION AND/OR THE ADJACENT PROPERTIES.

REV	DATE	BY	APP	COMMENT

PREPARED FOR:

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

BLEYL ENGINEERING
PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan Tx 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

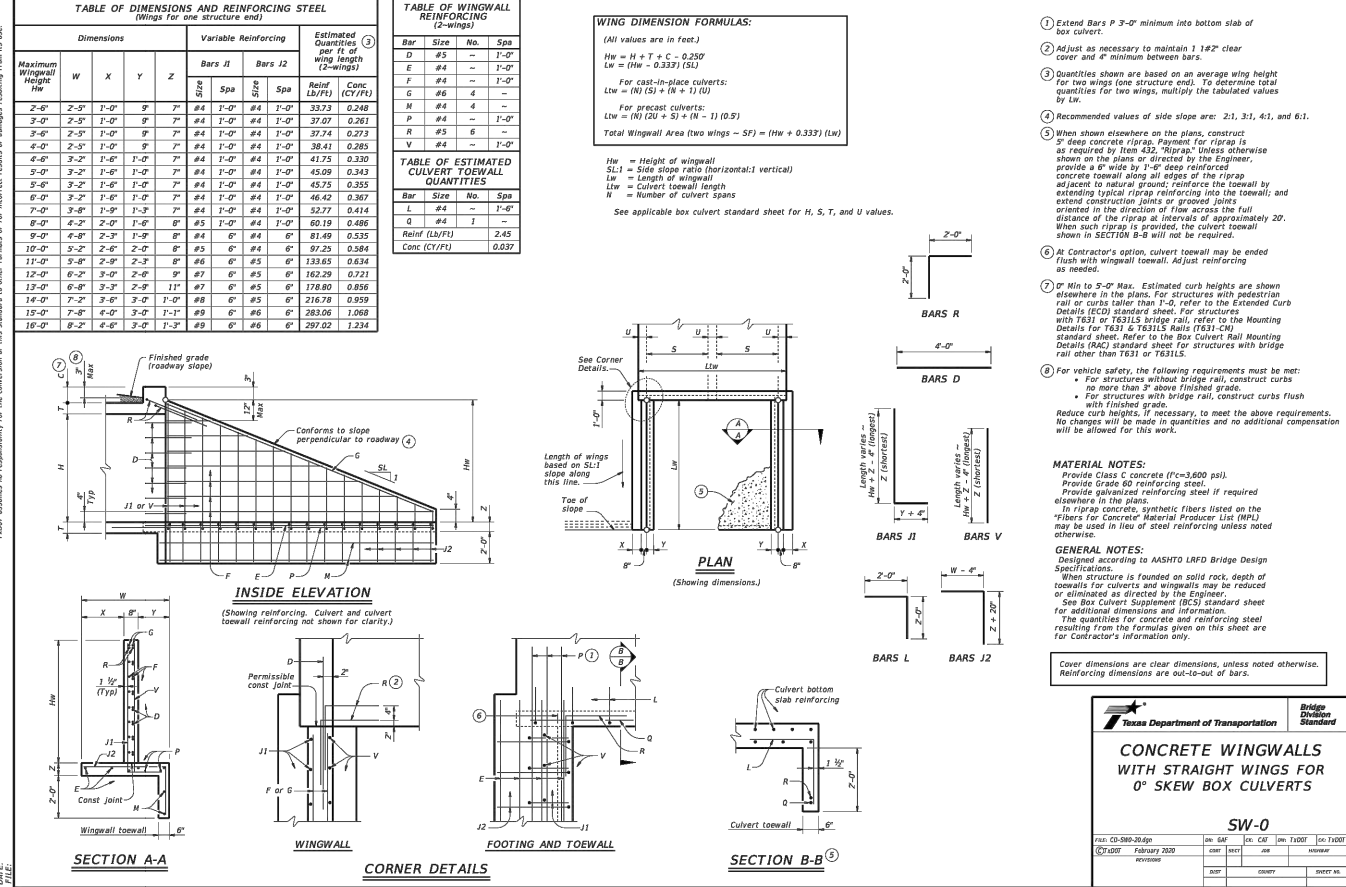
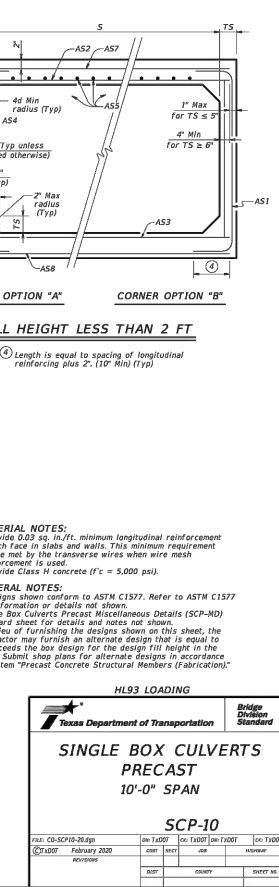
EROSION CONTROL PLAN

BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS

STATE OF TEXAS
DAVID L. BLEYL
81873
LICENSED PROFESSIONAL ENGINEER
David L. Bleyl
6-25-2024

DESIGN: CS
CAD: JG | RWV: DLB
PROJECT NO: 13357
SHEET: 23 OF: 30

DATE: _____
FILE: _____



DETAILS 1 OF 7 BURLESON CO - 24-065-057-E567-STREET-DRAINAGE MALLARD DRIVE BURLESON COUNTY, TEXAS		BLEYL ENGINEERING PLANNING • DESIGN • MANAGEMENT 1722 Broadmoor, Suite 210, Bryan Tx 77802 Texas Firm Registration No. F-678 Tel. 979-268-1125 Fax 979-260-3849 www.bleylengineering.com		PREPARED FOR: BURLESON COUNTY 100 WEST BUCK CALDWELL, TX, 77836		REV	DATE	BY	APPRO	COMMENT
				AUSTIN BRYAN CONROE HOUSTON						
 <i>David L. Besly</i> 6-25-2024										
DESIGN: CS										
CAD: JG		RVW: DLB								
PROJECT NO: 13357										
SHEET: 24		OF: 30								

SIGN SUPPORT DESCRIPTIVE CODES

(Descriptive Codes correspond to project estimate and quantities sheets)

SM RD SGN ASSM TY XXXXX (X)XX (X-XXXX)

Post Type

FRP = Fiberglass Reinforced Plastic Pipe (see SMD(FRP))

TWT = Thin-Walled Tubing (see SMD(TWT))

1080 = 10" DMC Tubing (see SMD(1080)) to (SLIP-33)

SBS = Schedule 80 Pipe (see SMD(SLIP-1) to (SLIP-33))

Number of Posts (1 or 2)

Anchor Type

UA = Universal Anchor - Concrete (see SMD(FRP) and (TWT))

UB = Universal Anchor - Bolted Steel (see SMD(FRP) and (TWT))

WS = Wedge Anchor Steel (see SMD(TWT))

SP = Spigot - Concrete (see SMD(SLIP-1) to (SLIP-33))

SA = Spigot - Steel (see SMD(SLIP-1) to (SLIP-33))

SB = Spigot - Bolted Steel (see SMD(SLIP-1) to (SLIP-33))

Sign Mounting Designation

P = Prefab, "P" (see SMD(SLIP-1) to (SLIP-33), (TWT), (FRP))

T = Prefab, "T" (see SMD(SLIP-1) to (SLIP-33), (TWT))

B = Extruded Ring Base (see SMD(SLIP-1) to (SLIP-33))

EXT or EXT* = Number of Extensions (see SMD(SLIP-1) to (SLIP-33), (TWT))

SA = Spigot - Steel (see SMD(SLIP-1) to (SLIP-33))

SB = Spigot - Bolted Steel (see SMD(SLIP-1) to (SLIP-33))

EC = Extruded Aluminex Sign (see SMD(SLIP-33))

EC* = Extruded Aluminex Sign (see SMD(SLIP-33))

No more than 2 sign posts should be located within a 7 ft. circle.

Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

Not Acceptable

REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT

Non-breakaway portion of support (1.5x, stub).

Ground Surface

4" max.

60"

To avoid vehicle undercarriage snagging, any substantial remains of a breakaway support, when it is broken away, should not project more than 4 inches above a 60-inch chord (i.e., typical space between wheel paths).

Paved Shoulders

12 ft. min.

0 to 6 ft.

7.5 ft. max.

7.0 ft. min.

LESS THAN 6 FT. WIDE

When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.

GREATER THAN 6 FT. WIDE

When the shoulder is greater than 6 ft. in width, the sign must be placed at least 6 ft. from the edge of the shoulder.

BEHIND GUARDRAIL

5 ft. min.

2 ft. min.

7.5 ft. max.

7.0 ft. min.

BEHIND CONCRETE BARRIER

2 ft. min.

7.5 ft. max.

7.0 ft. min.

*Sign clearance based on distance required for proper guard rail or concrete barrier performance.

SIGN LOCATION

T-INTERSECTION

12 ft. min.

6 ft. min.

7.5 ft. max.

7.0 ft. min.

When this sign is needed at the end of a two-lane, two-way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

BEHIND GUARDRAIL

5 ft. min.

2 ft. min.

7.5 ft. max.

7.0 ft. min.

BEHIND CONCRETE BARRIER

2 ft. min.

7.5 ft. max.

7.0 ft. min.

*Sign clearance based on distance required for proper guard rail or concrete barrier performance.

SIGN LOCATION

T-INTERSECTION

12 ft. min.

6 ft. min.

7.5 ft. max.

7.0 ft. min.

When this sign is needed at the end of a two-lane, two-way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

BEHIND GUARDRAIL

5 ft. min.

2 ft. min.

7.5 ft. max.

7.0 ft. min.

BEHIND CONCRETE BARRIER

2 ft. min.

7.5 ft. max.

7.0 ft. min.

*Sign clearance based on distance required for proper guard rail or concrete barrier performance.

SIGN LOCATION

T-INTERSECTION

12 ft. min.

6 ft. min.

7.5 ft. max.

7.0 ft. min.

When this sign is needed at the end of a two-lane, two-way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

BEHIND GUARDRAIL

5 ft. min.

2 ft. min.

7.5 ft. max.

7.0 ft. min.

BEHIND CONCRETE BARRIER

2 ft. min.

7.5 ft. max.

7.0 ft. min.

*Sign clearance based on distance required for proper guard rail or concrete barrier performance.

SIGN LOCATION

T-INTERSECTION

12 ft. min.

6 ft. min.

7.5 ft. max.

7.0 ft. min.

When this sign is needed at the end of a two-lane, two-way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

BEHIND GUARDRAIL

5 ft. min.

2 ft. min.

7.5 ft. max.

7.0 ft. min.

BEHIND CONCRETE BARRIER

2 ft. min.

7.5 ft. max.

7.0 ft. min.

*Sign clearance based on distance required for proper guard rail or concrete barrier performance.

SIGN LOCATION

T-INTERSECTION

12 ft. min.

6 ft. min.

7.5 ft. max.

7.0 ft. min.

When this sign is needed at the end of a two-lane, two-way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

BEHIND GUARDRAIL

5 ft. min.

2 ft. min.

7.5 ft. max.

7.0 ft. min.

SIGN LOCATION

PAVED SHOULDERS

12 ft. min.

0 to 6 ft.

7.5 ft. max.

7.0 ft. min.

LESS THAN 6 FT. WIDE

When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.

GREATER THAN 6 FT. WIDE

When the shoulder is greater than 6 ft. in width, the sign must be placed at least 6 ft. from the edge of the shoulder.

BEHIND GUARDRAIL

5 ft. min.

2 ft. min.

7.5 ft. max.

7.0 ft. min.

BEHIND CONCRETE BARRIER

2 ft. min.

7.5 ft. max.

7.0 ft. min.

*Sign clearance based on distance required for proper guard rail or concrete barrier performance.

SIGN LOCATION

T-INTERSECTION

12 ft. min.

6 ft. min.

7.5 ft. max.

7.0 ft. min.

When this sign is needed at the end of a two-lane, two-way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

BEHIND GUARDRAIL

5 ft. min.

2 ft. min.

7.5 ft. max.

7.0 ft. min.

BEHIND CONCRETE BARRIER

2 ft. min.

7.5 ft. max.

7.0 ft. min.

*Sign clearance based on distance required for proper guard rail or concrete barrier performance.

SIGN LOCATION

T-INTERSECTION

12 ft. min.

6 ft. min.

7.5 ft. max.

7.0 ft. min.

When this sign is needed at the end of a two-lane, two-way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

BEHIND GUARDRAIL

5 ft. min.

2 ft. min.

7.5 ft. max.

7.0 ft. min.

BEHIND CONCRETE BARRIER

2 ft. min.

7.5 ft. max.

7.0 ft. min.

*Sign clearance based on distance required for proper guard rail or concrete barrier performance.

SIGN LOCATION

T-INTERSECTION

12 ft. min.

6 ft. min.

7.5 ft. max.

7.0 ft. min.

When this sign is needed at the end of a two-lane, two-way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

BEHIND GUARDRAIL

5 ft. min.

2 ft. min.

7.5 ft. max.

7.0 ft. min.

BEHIND CONCRETE BARRIER

2 ft. min.

7.5 ft. max.

7.0 ft. min.

*Sign clearance based on distance required for proper guard rail or concrete barrier performance.

SIGN LOCATION

T-INTERSECTION

12 ft. min.

6 ft. min.

7.5 ft. max.

7.0 ft. min.

When this sign is needed at the end of a two-lane, two-way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

BEHIND GUARDRAIL

5 ft. min.

2 ft. min.

7.5 ft. max.

7.0 ft. min.

BEHIND CONCRETE BARRIER

2 ft. min.

7.5 ft. max.

7.0 ft. min.

*Sign clearance based on distance required for proper guard rail or concrete barrier performance.

SIGN LOCATION

T-INTERSECTION

12 ft. min.

6 ft. min.

7.5 ft. max.

7.0 ft. min.

When this sign is needed at the end of a two-lane, two-way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

BEHIND GUARDRAIL

5 ft. min.

2 ft. min.

7.5 ft. max.

7.0 ft. min.

BEHIND CONCRETE BARRIER

2 ft. min.

7.5 ft. max.

7.0 ft. min.

*Sign clearance based on distance required for proper guard rail or concrete barrier performance.

SIGN LOCATION

T-INTERSECTION

SIGN LOCATION

PAVED SHOULDERS

12 ft. min.

0 to 6 ft.

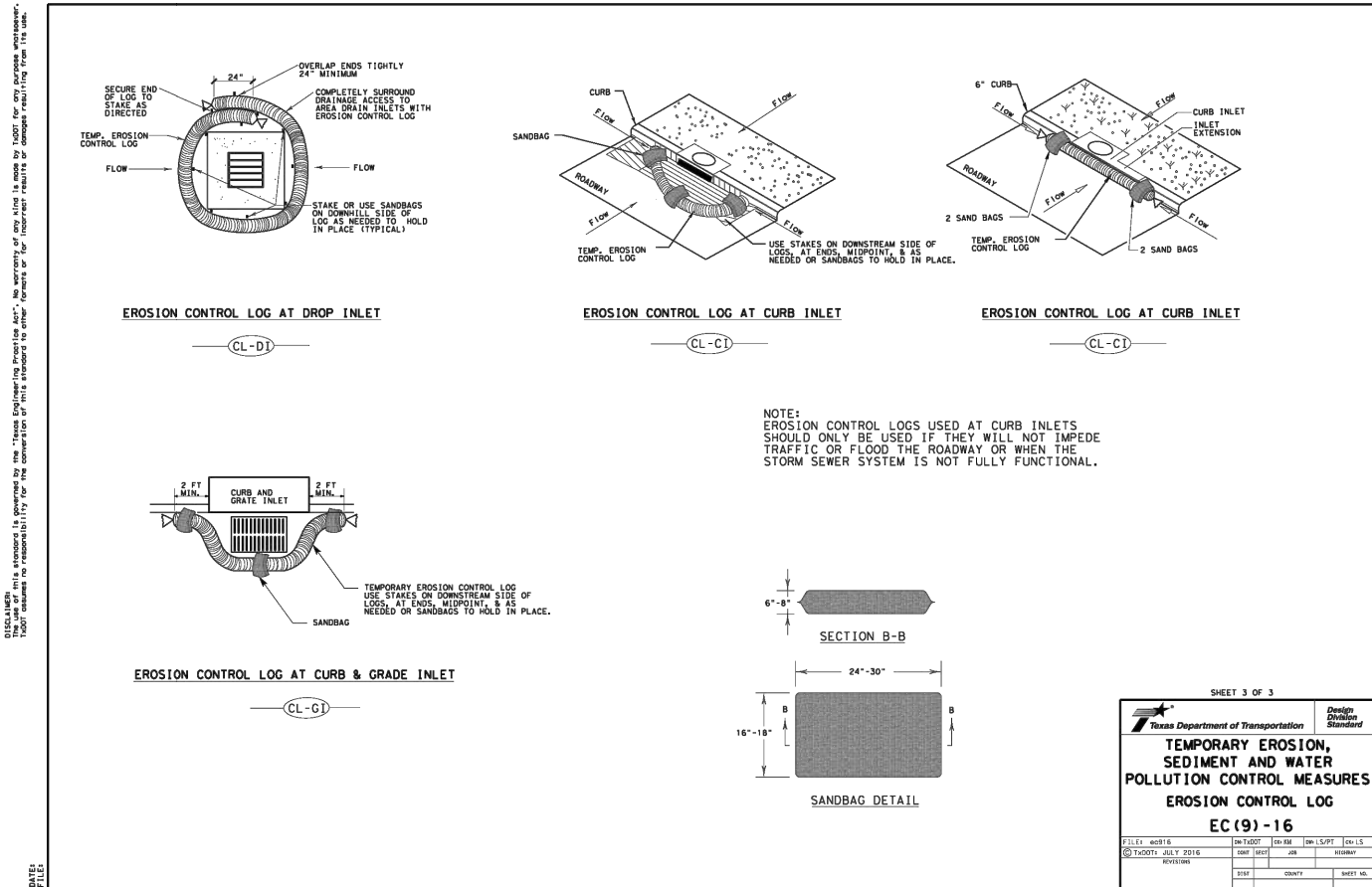
7.5 ft. max.

7.0 ft. min.

LESS THAN 6 FT. WIDE

When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.

GREATER THAN 6 FT. WIDE

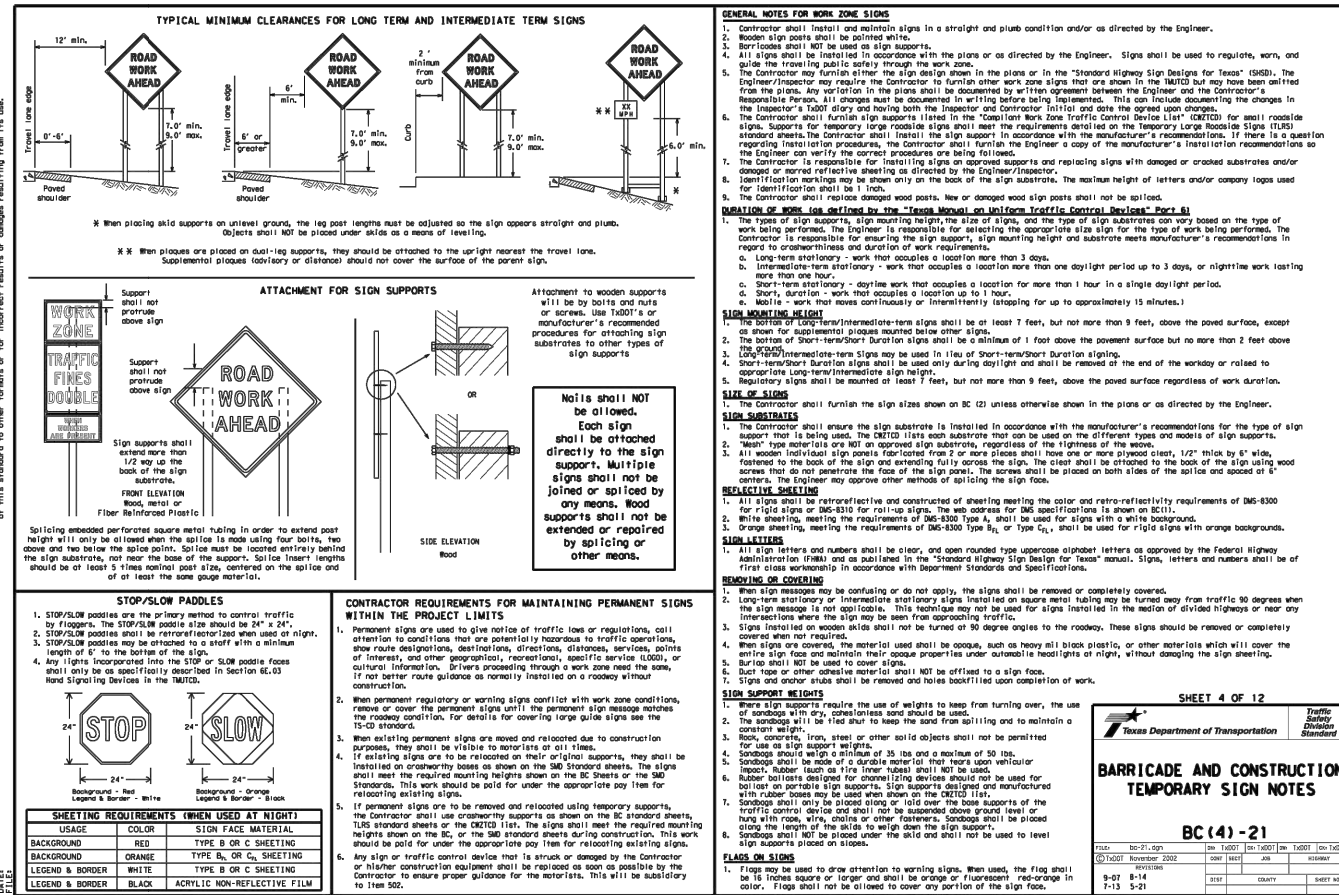
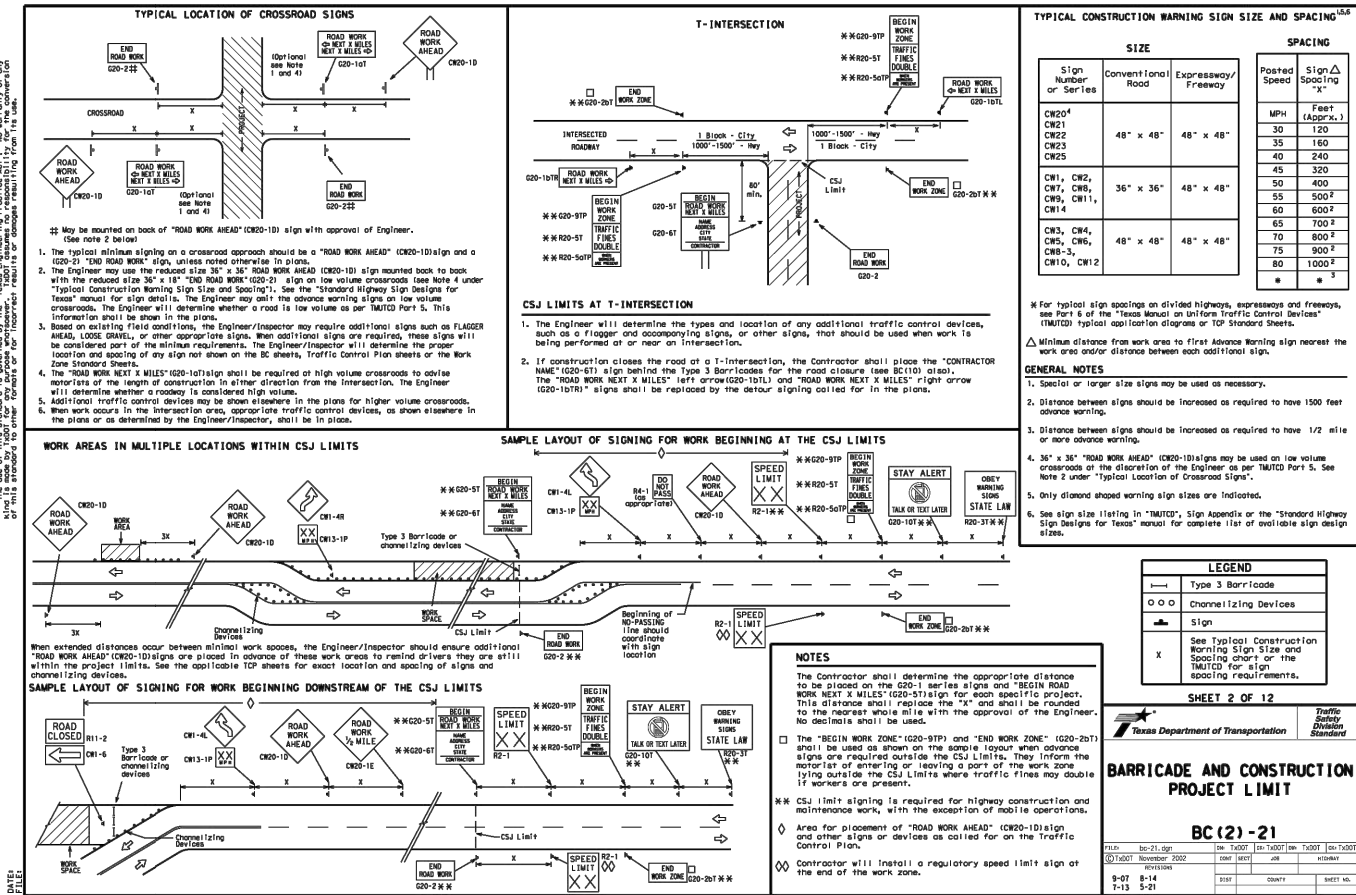
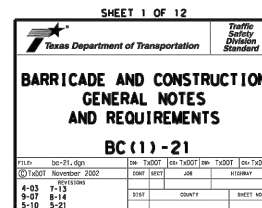


BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
- The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
- The Contractor is responsible for installing and maintaining the traffic control devices shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
- Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the "Texas Roadway Design Manual" or engineering judgment.
- When projects about, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
- The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
- Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The ONLY WARNING SIGNS STATE LAW sign, STAY ALERT TALK TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
- Traffic control devices should be in place only while work is actually in progress or a definite need exists.
- The Engineer has the final decision on the location of all traffic control devices.
- Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. The Engineer may require the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

DISCLAIMER: The use of this manual is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by the State of Texas or by the Texas Department of Transportation. The user assumes all liability for any damages resulting from the use of this manual.

DATE: FILE:



PREPARED FOR:

BURLESON COUNTY
100 WEST BUCK
CALDWELL, TX, 77836

DESIGN: CS
CAD: JG
PROJECT NO: 13357
SHEET: 27

DATE: 6-25-2024
BY: APP COMMENT
REV
DATE
BY
APP COMMENT

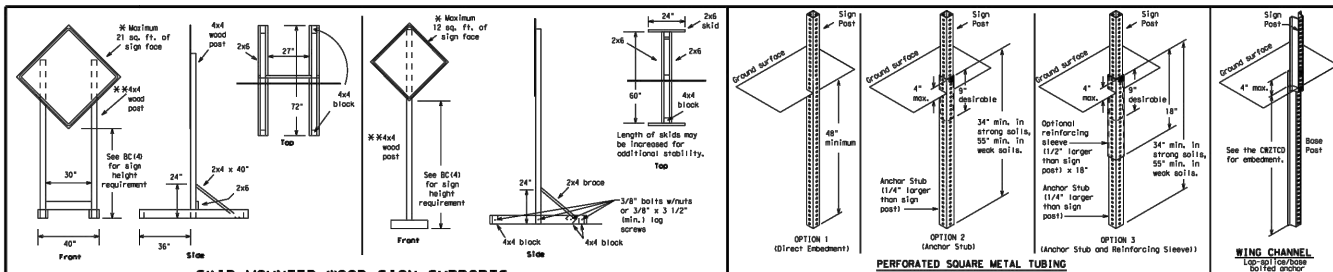
BLEYL ENGINEERING
PLANNING • DESIGN • MANAGEMENT
1722 Broadmoor, Suite 210, Bryan TX 77802
Texas Firm Registration No. F-678
Tel. 979-268-1125 Fax 979-260-3849
www.bleylengineering.com

AUSTIN
BRYAN
CONROE
HOUSTON

DETAILS 4 OF 7

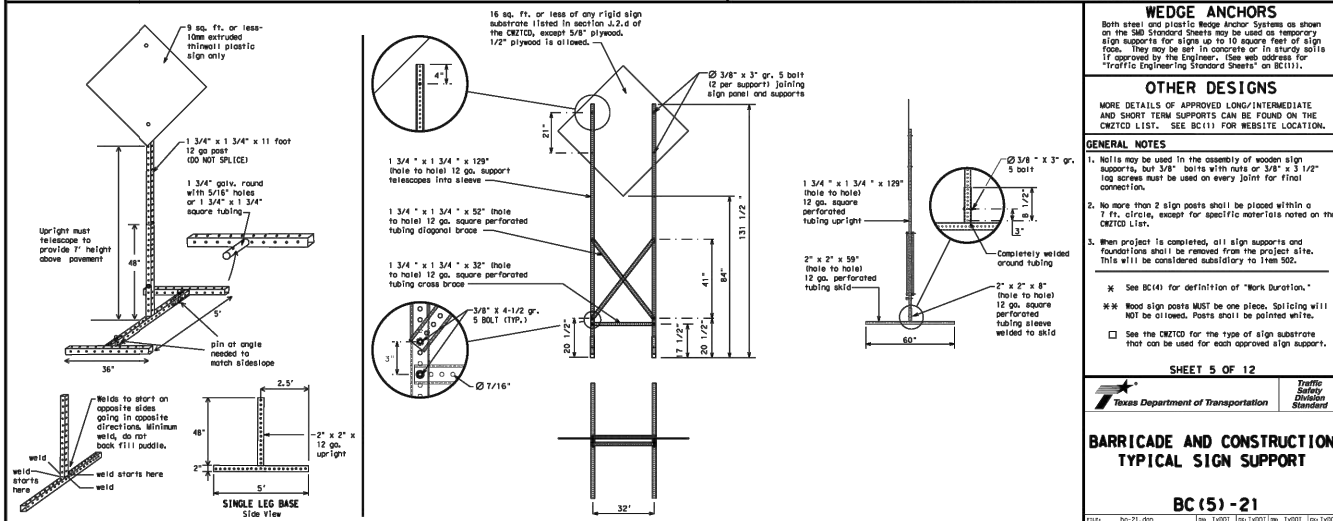
BURLESON CO -
24-065-057-E567-STREET-DRAINAGE
MALLARD DRIVE
BURLESON COUNTY, TEXAS

DAVID L. BESLEY
18173
PROFESSIONAL ENGINEER



SKID MOUNTED WOOD SIGN SUPPORTS

* LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS



SKID MOUNTED PERFORATED SQUARE STEEL TUBING SIGN SUPPORTS

* LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS

GROUND MOUNTED SIGN SUPPORTS

Refer to the CDOT and the manufacturer's installation procedure for each type sign support. The mainline sign square footage shall adhere to the manufacturer's recommendation. Two post installations can be used for larger signs.

WEDGE ANCHORS

Both steel and plastic Wedge Anchor Systems as shown on the 360 Standards Sheets may be used as temporary sign supports for signs up to 10 square feet of sign face. They may be set in concrete or in sturdy soils 17 approved by the Engineer. Use web address for "Traffic Engineering Standards Sheets" on BC(11).

OTHER DESIGNS

MORE DESIGNS OR APPROVED LONG/INTERMEDIATE AND SHORT TERM SUPPORTS CAN BE FOUND ON THE CDOT LIST. SEE BC(11) FOR WEBSITE LOCATION.

GENERAL NOTES

1. Nails may be used in the assembly of wooden sign supports, but 3/8" bolts with nuts or 3/8" x 3 1/2" lag screws must be used on every joint for final connection.
2. No more than 2 sign posts shall be placed within a 7 ft. circle, except for specific materials noted on the CDOT List.
3. When project is completed, all sign supports and foundations shall be removed from the project site. This will be considered subsidiary to Item 502.

* See BC(41) for definition of "Work Duration."

** Wood sign posts MUST be one size. Scaffolding will not be allowed. Posts shall be painted white.

□ See the CDOT for the type of sign substrate that is OK for use for each approved sign support.

SHEET 5 OF 12

Texas Department of Transportation

Traffic Division Standard

BARRICADE AND CONSTRUCTION

TYPICAL SIGN SUPPORT

BC(5)-21

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11-19	S-21			

ITEM	DATE	BY	CHKD	APP'D	REVISION
1	10-07	B-H			
2	11				

