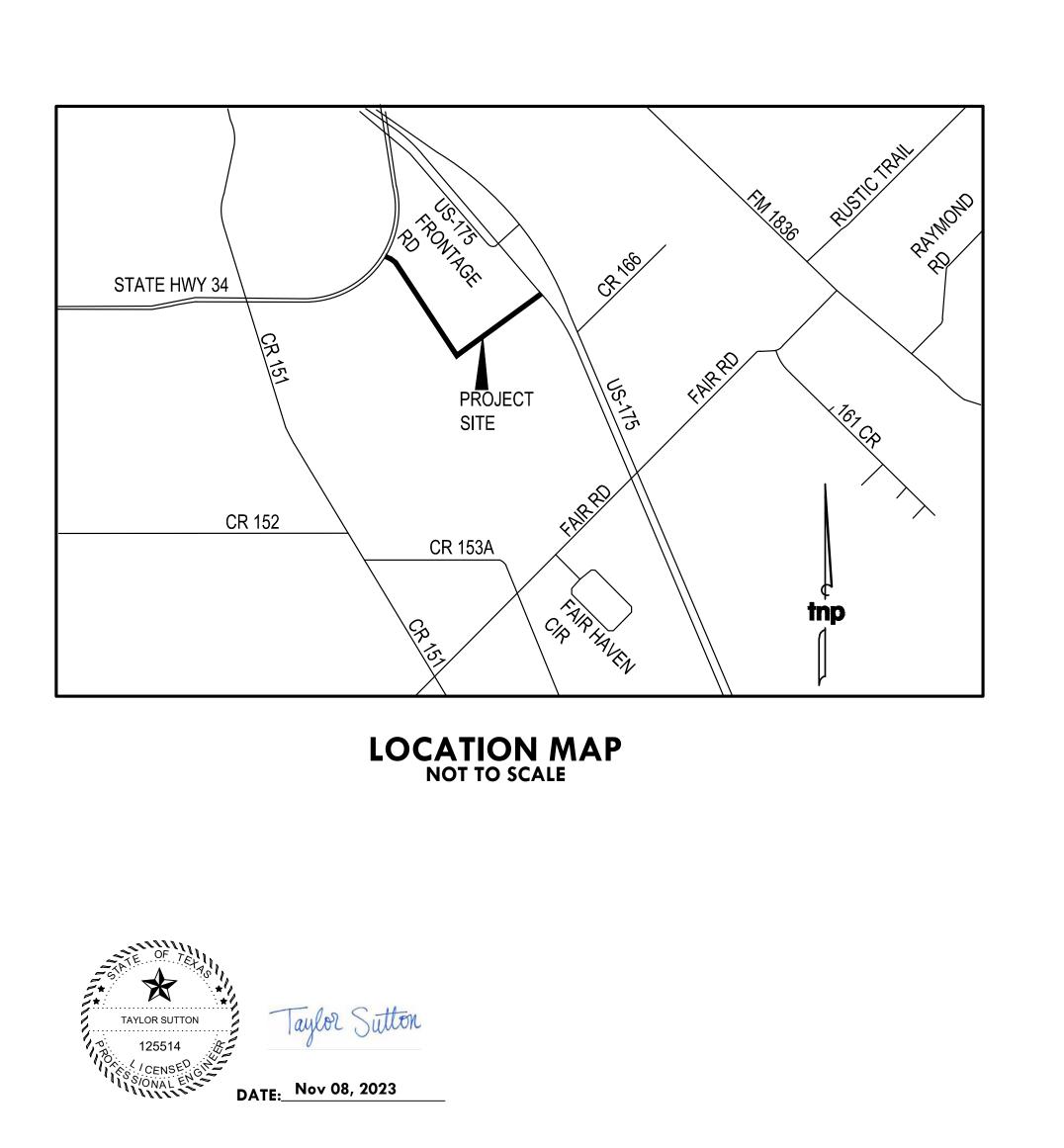
# **CIVIL ENGINEER**

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# **CONSTRUCTION PLANS FOR US 175-SH 34 CONNECTOR ROADS PAVING IMPROVEMENTS KAUFMAN COUNTY, TEXAS** SHEET LIST TABLE **NOVEMBER 2023** SHEET NUMBER SHEET TITLE





825 Watters Creek Boulevard, Suite M300 Allen, Texas 75013 ph 214.461.9867 www.tnpinc.com **TBPELS: ENGR F-230** TBPELS: SURV 10011600, 10011601, 10194381 GBPE: PEF007431, TBAE: BR 2673

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COVER SHEET **GENERAL NOTES PROJECT CONTROL SHEET TYPICAL SECTION ROAD 1** PAVING PLAN & PROFILE ROAD 1 STA 1+00 TO 3+50 PAVING PLAN & PROFILE ROAD 1 STA 3+50 TO 7+50 PAVING PLAN & PROFILE ROAD 1 STA 7+50 TO 12+50 PAVING PLAN & PROFILE ROAD 1 STA 12+50 TO 17+50 PAVING PLAN & PROFILE ROAD 1 STA 17+50 TO 22+50 PAVING PLAN & PROFILE ROAD 1 STA 22+50 TO END CROSS SECTION ROAD 1 STA. 2+50 TO 6+50 CROSS SECTION ROAD 1 STA. 7+00 TO 11+00 CROSS SECTION ROAD 1 STA. 11+50 TO 15+50 CROSS SECTION ROAD 1 STA. 16+00 TO 20+00 CROSS SECTION ROAD 1 STA. 20+50 TO 24+50 CROSS SECTION ROAD 1 STA. 25+00 TO 26+50 **TYPICAL SECTION ROAD 2** PAVING PLAN & PROFILE ROAD 2 STA 1+00 TO 4+50 PAVING PLAN & PROFILE ROAD 2 STA 4+50 TO 9+00 PAVING PLAN & PROFILE ROAD 2 STA 9+00 TO 13+50 PAVING PLAN & PROFILE ROAD 2 STA 13+50 TO 18+50 PAVING PLAN & PROFILE ROAD 2 STA 18+50 TO END CROSS SECTION ROAD 2 STA. 1+50 TO 5+50 CROSS SECTION ROAD 2 STA. 6+00 TO 10+00 CROSS SECTION ROAD 2 STA. 10+50 TO 14+50 CROSS SECTION ROAD 2 STA. 15+00 TO 19+00 CROSS SECTION ROAD 2 STA. 19+50 TO 22+50 PRE-DEVELOPED DRAINAGE AREA MAP 1 OF 2 PRE-DEVELOPED DRAINAGE AREA MAP 2 OF 2 POST-DEVELOPED DRAINAGE AREA MAP 1 OF 2 POST-DEVELOPED DRAINAGE AREA MAP 2 OF 2 **STORM DRAIN PLAN & PROFILE - STORM LINE A** STORM DRAIN PLAN & PROFILE - STORM LINE B STORM DRAIN PLAN & PROFILE - LAT B1 & B2,CULVERT C & D STORM DRAIN CALCULATIONS **EROSION CONTROL PLAN** CONSTRUCTION DETAILS (1 OF 3) CONSTRUCTION DETAILS (2 OF 3) CONSTRUCTION DETAILS (3 OF 3)

1.	STANDARDS AND SPECIFICATIONS: ALL MATERIALS, CONSTRUCTION METHODS, WORKMANSHIP, EQUIPMENT, SERVICES AND TESTING FOR ALL PUBLIC IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE COUNTY ORDINANCES, REGULATIONS, REQUIREMENTS, STATUTES, SPECIFICATIONS AND DETAILS, LATEST PRINTING AND AMENDMENTS THERETO. ALL CONSTRUCTION, SUBJECT OR DIVISION OF METHODS STATUTES, SPECIFICATIONS AND DETAILS, LATEST PRINTING AND AMENDMENTS THERETO. ALL CONSTRUCTION, SUBJECT OR DIVISION OF METHODS STATUTES, SPECIFICATIONS AND DETAILS, LATEST PRINTING AND AMENDMENTS THERETO. ALL CONSTRUCTION, SUBJECT OR DIVISION OF METHODS STATUTES, SPECIFICATIONS AND DETAILS, LATEST PRINTING AND AMENDMENTS THERETO. ALL CONSTRUCTION, SUBJECT OF DIVISION OF DIVISIONO OF DIVISI	NEGOTIATE SUCH LOCAL ADJUSTMENTS AS NECESSARY IN THE CONSTRUCTION PROCESS TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL EXISTING UTILITIES, SERVICES AND STRUCTURES ENCOUNTERED, WHETHER OR NOT THEY ARE INDICATED ON	29. EXISTING ROADWA THE CONTRACTOR SHALL CLEANLINESS OF EXISTING
2.	SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, NORTH CENTRAL TEXAS – NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, LATEST PRINTING AND AMENDMENTS THERETO, EXCEPT AS MODIFIED OR AMENDED BY THE PROJECT CONTRACT DOCUMENTS. EXAMINATION OF SITE:		<b>30. DUST CONTROL:</b> THE CONTRACTOR SHALL APPROVED BY THE GOVEN
	THE CONTRACTOR ACKNOWLEDGES THAT HE HAS INVESTIGATED AND SATISFIED HIMSELF AS TO THE CONDITIONS AFFECTING THE WORK, INCLUDING BUT NOT RESTRICTED TO THOSE BEARING UPON TRANSPORTATION, DISPOSAL, HANDLING AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRIC POWER, ROADS AND UNCERTAINTIES OF WEATHER, OR SIMILAR PHYSICAL CONDITIONS AT THE SITE, CONDITIONS OF THE GROUND, THE CHARACTER OF EQUIPMENT AND FACILITIES NEEDED PRELIMINARY TO AND DURING PERFORMANCE OF THE WORK. THE CONTRACTOR ACKNOWLEDGES THAT HE HAS INSPECTED THE SITE OF THE WORK AND IS FAMILIAR WITH THE SOIL CONDITIONS TO BE ENCOUNTERED. ANY FAILURE BY THE CONTRACTOR TO ACQUAINT HIMSELF WITH THE AVAILABLE INFORMATION	<b>15. DAMAGE TO EXISTING FACILITIES:</b> ALL UTILITIES, PAVEMENT, SIDEWALKS, WALLS, FENCES, ETC. NOT DESIGNATED TO BE REMOVED BUT THAT ARE DAMAGED DURING CONSTRUCTION ACTIVITIES SHALL <b>3</b> K BE REPLACED TO A CONDITION AS GOOD AS OR BETTER THAN THE CONDITIONS PRIOR TO STARTING THE WORK, SOLELY AT THE EXPENSE OF THE CONTRACTOR. ANY FACILITIES THAT ARE RELOCATED DURING CONSTRUCTION MUST BE COORDINATED WITH THE OWNER OF THAT FACILITY PRIOR TO RELOCATION.	THE ADJACENT PROPERTIL <b>31. CLEAN-UP FOR FIN</b> THE CONTRACTOR SHALL OF ALL OBJECTIONABLE M
	WILL NOT RELIEVE HIM FROM RESPONSIBILITY FOR ESTIMATING PROPERLY THE DIFFICULTY OR COST OF SUCCESSFULLY PERFORMING THE WORK. THE COUNTY ASSUMES NO RESPONSIBILITY FOR ANY CONCLUSIONS OR INTERPRETATIONS MADE BY THE CONTRACTOR ON THE BASIS OF THE INFORMATION MADE AVAILABLE BY THE COUNTY.	<b>16. FIRE AND LIFE SAFETY SYSTEMS:</b> CONTRACTOR SHALL NOT REMOVE, DISABLE OR DISRUPT EXISTING FIRE OR LIFE SAFETY SYSTEMS WITHOUT WRITTEN PERMISSION FROM THE GOVERNING AUTHORITY.	32. REMOVAL OF DEFEC
3.	SUBSURFACE INVESTIGATION: SUBSURFACE EXPLORATION TO ASCERTAIN THE NATURE OF SOILS, INCLUDING THE AMOUNT OF ROCK, IF ANY, IS THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SUCH SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO DETERMINE THE NATURE OF THE MATERIAL TO BE ENCOUNTERED.	17. TRENCH SAFETY: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND MAINTAIN A VIABLE TRENCH SAFETY SYSTEM AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS DIRECTED TO BECOME KNOWLEDGEABLE AND FAMILIAR WITH THE STANDARDS AS SET BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE STATE OF TEXAS LAW CONCERNING TRENCHING AND SHORING. THE CONTRACTOR SHALL PROVIDE TRENCH SAFETY SYSTEM PLANS. PREPARED AND SEALED BY A PROFESSIONAL ENGINEER. LICENSED IN THE STATE OF TEXAS. FOR THE IMPLEMENTATION OF SAFETY CONTROL MEASURES.	CONTRACTOR'S EXPENSE. WITH THE GRADES SHOWN WRITTEN AUTHORITY AND OPTION OF THE COUNTY CONTRACTOR TO REPAIR IMMEDIATELY AFTER RECE
4.	TOPOGRAPHIC SURVEY: TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THE PLANS IS PROVIDED FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE INFORMATION SHOWN IS CORRECT, AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY ERRORS, DISCREPANCIES OR OMISSIONS TO THE SURVEY	MEETING THE REQUIREMENTS OF THE GOVERNING AUTHORITIES, THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT. 18. SAFETY RESTRICTIONS - WORK NEAR HIGH VOLTAGE LINES:	DEFECTIVE WORK TO BE ANY MONIES DUE OR TO
5.	INFORMATION PROVIDED. ANY COSTS INCURRED AS A RESULT OF NOT CONFIRMING THE ACTUAL SURVEY SHALL BE BORNE BY THE CONTRACTOR.		<b>3. DISPOSITION AND I</b> ALL MATERIALS TO BE RI LARGE ROCKS, REFUSE, A
	THE CONTRACTOR SHALL FULLY COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS, INCLUDING ALL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS CONTRACT AND THE WORK TO BE DONE THEREUNDER, WHICH EXIST OR MAY BE ENACTED LATER BY GOVERNMENTAL BODIES HAVING JURISDICTION OR AUTHORITY FOR SUCH ENACTMENT. ALL WORK REQUIRED UNDER THIS CONTRACT SHALL COMPLY WITH ALL REQUIREMENTS OF LAW, REGULATION, PERMIT OR LICENSE. IF THE	INSIDE AND OUTSIDE VEHICLES SUCH AS CRANES, DERRICKS, POWER SHOVELS, DRILLING RIGS, PILE DRIVER, HOISTING EQUIPMENT OR SIMILAR APPARATUS. THE WARNING SIGN SHALL READ AS FOLLOWS: "WARNING — UNLAWFUL TO OPERATE THIS EQUIPMENT WITHIN SIX FEET OF HIGH VOLTAGE LINES.	PROJECT AT THE CONTRA TO A DISPOSAL SITE.
6.	CONTRACTOR FINDS THAT THERE IS A VARIANCE, HE SHALL IMMEDIATELY REPORT THIS TO THE COUNTY FOR RESOLUTION. PUBLIC CONVENIENCE AND SAFETY:	EXCEPT BACKHOES OR DIPPERS, AND INSULATOR LINKS ON THE LIFT HOOK CONNECTIONS.	<b>34. SEEDING:</b> THE CONTRACTOR SHALL RIGHT-OF-WAY, EASEMET
	IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. MATERIALS STORED ON THE WORK SITE SHALL BE SO PLACED, AND THE WORK SHALL AT ALL TIMES BE SO CONDUCTED, AS TO CAUSE NO GREATER OBSTRUCTION TO THE TRAVELING PUBLIC THAN IS CONSIDERED ACCEPTABLE BY THE GOVERNING AUTHORITIES AND THE COUNTY. THE MATERIALS EXCAVATED SHALL BE PLACED SO AS NOT TO ENDANGER THE WORK OR PREVENT FREE ACCESS TO ALL FIRE HYDRANTS. WATER VALVES.	C. WHEN NECESSARY TO WORK WITHIN SIX FEET OF HIGH VOLTAGE ELECTRIC LINES, NOTIFY THE POWER COMPANY WHO WILL ERECT TEMPORARY MECHANICAL BARRIERS, DE-ENERGIZE THE LINE OR RAISE OR LOWER THE LINE. THE WORK DONE BY THE POWER COMPANY SHALL BE AT THE EXPENSE OF THE CONTRACTOR. THE NOTIFYING DEPARTMENT SHALL MAINTAIN AN ACCURATE LOG OF ALL SUCH CALLS TO THE POWER COMPANY AND SHALL RECORD ACTION TAKEN IN EACH CASE 3	OF THE PROJECT STORM SOIL SURFACE.
	GAS VALVES, MANHOLES, AND FIRE ALARM OR POLICE CALL BOXES IN THE VICINITY. THE COUNTY RESERVES THE RIGHT TO REMEDY ANY NEGLECT ON THE PART OF THE CONTRACTOR WITH REGARDS TO THE PUBLIC CONVENIENCE AND SAFETY WHICH MAY COME TO THE COUNTY'S ATTENTION, AFTER 24 HOURS NOTICE IN WRITING TO THE CONTRACTOR, SAVE IN CASES OF EMERGENCY, WHEN THE COUNTY SHALL HAVE THE RIGHT TO REMEDY ANY NEGLECT WITHOUT NOTICE; AND, IN EITHER	D. THE CONTRACTOR IS REQUIRED TO MAKE ARRANGEMENTS WITH THE POWER COMPANY FOR THE TEMPORARY RELOCATION OR RAISING OF HIGH VOLTAGE LINES AT THE CONTRACTOR'S SOLE COST AND EXPENSE.	THE CONTRACTOR SHALL DOCUMENTS. THESE REC PAYMENT. IF THE DRAW
	CASE, THE COST OF SUCH WORK DONE BY THE COUNTY SHALL BE DEDUCTED FROM THE MONIES DUE OR TO BECOME DUE THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE OWNER/DEVELOPER AND THE GOVERNING AUTHORITIES WHEN ANY STREET IS TO BE CLOSED OR OBSTRUCTED; SUCH NOTICE SHALL IN THE CASE OF MAJOR THOROUGHFARES OR STREETS UPON WHICH TRANSIT BY THE COUNTY OR THE GOVERNING AUTHORITIES, KEEP ANY STREET OR STREETS IN CONDITION FOR	E. NO PERSON SHALL WORK WITHIN SIX FEET OF A HIGH VOLTAGE LINE WITHOUT PROTECTION HAVING BEEN TAKEN AS OUTLINED IN PARAGRAPH "C" ABOVE.	"RECORD" DRAWINGS MUS 6. GENERAL NOTES:
	UNOBSTRUCTED USE BY EMERGENCY SERVICES. WHERE THE CONTRACTOR IS REQUIRED TO CONSTRUCT TEMPORARY BRIDGES OR TO MAKE OTHER ARRANGEMENTS FOR CROSSING OVER DITCHES OR STREAMS, HIS RESPONSIBILITY FOR ACCIDENTS SHALL INCLUDE THE ROADWAY APPROACHES AS WELL AS THE STRUCTURES OF SUCH CROSSINGS.	IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP AND SUBMIT FOR APPROVAL BY THE GOVERNING AUTHORITIES, A TRAFFIC CONTROL PLAN, PREPARED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS, OUTLINING TRAFFIC MANAGEMENT PROCEDURES TO BE PROVIDED DURING CONSTRUCTION. TRAFFIC CONTROL MEASURES SHALL BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:	A. CONTRACTOR'S PERS B. CONTRACTOR SHALL
7.	STORM WATER POLLUTION PREVENTION PLAN (SWP3): THE CONTRACTOR SHALL COMPLY WITH THE CONDITIONS OF THE SWP3 WHILE CONDUCTING HIS ACTIVITIES ON THE PROJECT. IN ADDITION TO CONSTRUCTING THOSE	A. CONSTRUCTION OF SIGNING AND BARRICADES SHALL CONFORM WITH THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED, TEXAS DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION.	SUCH VERIFICATION C. ALL WORK SHALL BE CONDITIONS OF THE
	ITEMS INDICATED ON THE PLAN SHEETS, COMPLIANCE WITH THE SWP3 INCLUDES CONFORMANCE TO CERTAIN PRACTICES AND PROCEDURES (IDENTIFIED IN THE SWP3) DURING PROJECT CONSTRUCTION. A. ALL CONTRACTORS WILL COMPLY WITH THE REQUIREMENTS AND INTENT OF THE N.P.D.E.S. GENERAL PERMIT FOR STORM WATER DISCHARGES.	B. THE CONTRACTOR SHALL BE REQUIRED TO FORNISH BARRICADES, FLARES, FLAGMEN, ETC., FOR THE PROTECTION OF THE POBLIC, EMPLOTEES AND THE WORK.	D. THE CONTRACTOR SH MATERIALS FROM EX
	<ul> <li>ALL CONTRACTORS WILL COMPLET WITH THE REGORDERING AND INTENT OF THE N.T.D.L.S. GENERAL FERMIN FOR STORM WATER DISCHARGES.</li> <li>B. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT TRACKING OF MUD AND/OR SOIL ONTO EXISTING AND/OR NEW PAVEMENT. ANY TRACKING THAT OCCURS SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.</li> </ul>	C. THE CONTRACTOR SHALL PERFORM HIS WORK IN SUCH A MANNER AS TO CREATE A MINIMUM OF INTERRUPTION TO TRAFFIC ALONG ADJACENT ROADWAYS. TWO WAY TRAFFIC MUST BE MAINTAINED ON ALL ROADWAYS AT ALL TIMES THROUGHOUT CONSTRUCTION UNLESS WRITTEN PERMISSION IS GRANTED BY THE GOVERNING AUTHORITIES.	E. IN THE EVENT A STI SOLE RESPONSIBILIT
	C. DAMAGE TO ADJACENT PROPERTY AND/OR TO RECEIVING WATERS CAUSED BY IMPROPERLY INSTALLED OR POORLY MAINTAINED EROSION CONTROL MEASURES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.	D. ALL SIGNAGE, MARKINGS, LIGHTING, BARRICADES, FLAGMEN AND OTHER DEVICES AND PERSONNEL REQUIRED FOR TRAFFIC CONTROL DURING CONSTRUCTION OF THE PROJECT WILL BE INCLUDED IN THE CONTRACT AMOUNT.	F. ALL CONSTRUCTION STANDARDS.
	D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ANY SILTATION CAUSED BY THEIR OPERATIONS AND/OR FAILURE OF THE EROSION CONTROL DEVICES.	E. ALL TRAFFIC CONTROL DEVICES USED DURING NIGHTTIME SHALL BE REFLECTORIZED, ILLUMINATED FROM WITHIN OR EXTERNALLY ILLUMINATED. F. THE CONTRACTOR SHALL NOT REMOVE ANY REGULATORY SIGN, INSTRUCTIONAL SIGN, WARNING SIGN, STREET NAME SIGN OR ANY SIGNAL, WHICH CURRENTLY	G. ALL EXISTING PAVEM BY THE CONTRACTO
	E. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SILT AND SEDIMENT FROM THE EROSION CONTROL MEASURES WHEN IT REACHES A DEPTH OF FOUR (4) INCHES OR IMPAIRS THE EFFECTIVENESS OF THE MEASURES.	EXISTS, WITHOUT THE CONSENT OF THE GOVERNING AUTHORITIES. G. THE CONTRACTOR SHALL MAINTAIN AND REPLACE WHERE NECESSARY ALL SIGNS, LIGHTS, MARKINGS AND TEMPORARY PAVEMENT THROUGHOUT THE	OR AS DIRECTED BY
	F. THE CONTRACTOR SHALL INSPECT THE PROJECT EVERY SEVEN DAYS, AT A MINIMUM, AND AFTER EVERY RAINFALL OF ONE-HALF INCHES OR GREATER TO DETERMINE THE INTEGRITY AND EFFECTIVENESS OF THE EROSION CONTROL MEASURES. A WRITTEN INSPECTION REPORT WILL BE FILED WITH SWPPP. THIS	CONSTRUCTION PERIOD. H. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL MEASURES AT THE END OF CONSTRUCTION AND RESTORE UNIMPROVED PAVEMENT AND OTHER DISTURBED AREAS TO THEIR ORIGINAL CONDITION.	SUBSIDIARY TO THE
	INSPECTION DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR INSPECTION AND MAINTENANCE OF THE EROSION CONTROL MEASURES OR HIS DUTY TO COMPLY WITH THE INTENT AND CONDITIONS OF THE N.P.D.E.S. GENERAL PERMIT.	20. ACCESS TO ADJACENT PROPERTIES: ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE COUNTY.	PERCENTAGE POINTS J. CONTRACTOR SHALL MOST RECENT BARR
	G. ALL STOCK PILED SOILS WILL BE SURROUNDED BY A SLIT FENCE, SEDIMENT CONTROL SWALE, OR EQUIVALENT MEASURE TO PROPERLY CONTROL SEDIMENT RUNOFF, AS APPROVED BY THE CITY.	ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE COUNTY. 21. ACCESS ROUTES, STAGING AREAS AND STORAGE AREAS: ALL PRIVATE HAUL ROADS AND ACCESS ROUTES AND THE LOCATION OF ALL STAGING AREAS AND STORAGE AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE	ADDITION, CONTRACT K. THE CONTRACTOR SH
	H. CONTRACTOR SHALL STABILIZE ANY AREA WHERE CONSTRUCTION ACTIVITY IS TO BE TEMPORARILY OR PERMANENTLY CEASED FOR MORE THAN 14 DAYS.	COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND REPAIRING ALL ROADS AND OTHER FACILITIES USED DURING CONSTRUCTION. UPON COMPLETION OF THE PROJECT, ALL HAUL ROADS, ACCESS ROADS, STAGING AREAS AND STORAGE AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT AT THE TIME THE CONTRACTOR COMMENCES WORK ON THE PROJECT.	L. THE CONTRACTOR SH IN SERVICE WHICH W
8.	PERMITS AND LICENSES: THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND LICENSES NECESSARY FOR THE EXECUTION OF THE WORK AND SHALL FULLY COMPLY WITH ALL THEIR TERMS AND CONDITIONS. WHENEVER THE WORK UNDER THIS CONTRACT REQUIRES THE OBTAINING OF PERMITS FROM THE GOVERNING AUTHORITIES, THE CONTRACTOR SHALL FURNISH DUPLICATE COPIES OF SUCH PERMITS TO THE COUNTY BEFORE THE WORK COVERED THEREBY IS STARTED. NO WORK WILL BE ALLOWED TO PROCEED BEFORE SUCH PERMITS ARE OBTAINED.	AT NIGHT AND DURING ALL OTHER PERIODS OF TIME WHEN EQUIPMENT IS NOT BEING ACTIVELY USED FOR THE CONSTRUCTION WORK, THE CONTRACTOR SHALL PARK THE EQUIPMENT AT LOCATIONS, WHICH ARE APPROVED BY THE COUNTY. DURING THE CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL COMPLY WITH THE PRESENT ZONING REQUIREMENTS OF THE GOVERNING AUTHORITIES IN THE USE OF VACANT PROPERTY FOR STORAGE PURPOSES. THE CONTRACTOR SHALL ALSO	
9.	INSPECTION: INSPECTION OF THE PROPOSED CONSTRUCTION WILL BE PROVIDED BY THE COUNTY AT END OF CONSTRUCTION	PROVIDE ADEQUATE BARRICADES, MARKERS AND LIGHTS TO PROTECT THE COUNTY, THE GOVERNING AUTHORITIES, THE PUBLIC AND THE OTHER WORK. ALL BARRICADES, LIGHTS, AND MARKERS MUST MEET THE REQUIREMENTS OF THE GOVERNING AUTHORITIES' REGULATIONS.	
10	. SHOP DRAWINGS: THE CONTRACTOR SHALL PROVIDE, REVIEW, APPROVE AND SUBMIT ALL SHOP DRAWINGS, PRODUCT DATA AND SAMPLES REQUIRED BY THE GOVERNING AUTHORITIES AND THE PROJECT CONTRACT DOCUMENTS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, NORTH CENTRAL TEXAS –	<b>23. WATER FOR CONSTRUCTION:</b> THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR PURCHASING WATER FROM THE GOVERNING AUTHORITY FOR HIS USE ON THE PROJECT SITE. COSTS ASSOCIATED WITH THIS SERVICE SHALL BE INCLUDED IN THE CONTRACT AMOUNT.	
	NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (LATEST VERSION UNLESS OTHERWISE SPECIFIED). . SURVEYING:	24. TEMPORARY ELECTRIC AND COMMUNICATIONS FOR CONSTRUCTION: THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR INSTALLATION AND PURCHASING OF TEMPORARY ELECTRIC AND COMMUNICATIONS SERVICES	
	ALL SURVEYING REQUIRED FOR CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A REGISTERED PROFESSIONAL LAND SURVEYOR TO PERFORM ALL ADDITIONAL SURVEY, LAYOUT AND MEASUREMENT WORK NECESSARY FOR THE COMPLETION OF THE PROJECT. THE		
	CONTRACTOR SHALL VERIFY THE SITE BENCHMARKS' ELEVATION SHOWN ON THE PLANS AND REPORT ANY DISCREPANCIES TO THE OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION STAKING. ALL CONSTRUCTION TRADES SHALL COORDINATE THROUGH THE GENERAL CONTRACTOR USING THE SAME BENCHMARKS FOR VERTICAL CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REMOVAL, REPLACEMENT AND REDESIGN OF ANY IMPROVEMENTS CONSTRUCTED PRIOR TO CHECKING HORIZONTAL/VERTICAL CONTROL AND PLAN DIMENSIONS AND NOTIFICATION OF ANY DISCREPANCIES TO THE OWNER AND ENGINEER.		
12	. PROTECTION OF PROPERTY CORNERS AND BENCHMARKS: THE CONTRACTOR SHALL PROTECT ALL PROPERTY CORNER MARKERS AND BENCHMARKS, AND WHEN ANY SUCH MARKERS OR MONUMENTS ARE IN DANGER OF BEING DISTURBED, THEY SHALL BE PROPERLY REFERENCED AND IF DISTURBED SHALL BE RESET BY A REGISTERED PUBLIC SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.	ENTERING THE CONSTRUCTION AREA. THE COST OF FENCE REMOVAL, TEMPORARY CLOSURES, AND REPLACEMENT SHALL BE INCLUDED IN THE CONTRACT AMOUNT.	
13	. EXISTING STRUCTURES: THE PLANS SHOW THE LOCATION OF ALL KNOWN SURFACE AND SUBSURFACE STRUCTURES, HOWEVER, THE COUNTY AND ENGINEER ASSUME NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL OF THESE STRUCTURES ON THE PLANS, OR TO SHOW THEM IN THEIR EXACT LOCATION. SUCH FAILURE SHALL NOT BE CONSIDERED	<b>27. COORDINATION WITH OTHERS:</b> IN THE EVENT THAT OTHER CONTRACTORS ARE DOING WORK IN THE SAME AREA SIMULTANEOUSLY WITH THE PROJECT, THE CONTRACTOR SHALL COORDINATE HIS PROPOSED CONSTRUCTION WITH THAT OF THE OTHER CONTRACTORS	
	SUFFICIENT BASIS FOR CLAIMS FOR ADDITIONAL COMPENSATION FOR EXTRA WORK OR FOR INCREASING THE PAY QUANTITIES IN ANY MANNER WHATSOEVER, UNLESS THE OBSTRUCTION ENCOUNTERED IS SUCH AS TO REQUIRE CHANGES IN THE LINES OR GRADES, OR REQUIRE THE CONSTRUCTION OF SPECIAL WORK, FOR WHICH PROVISIONS ARE NOT MADE IN THE PLANS.	28. CONDITION OF SITE DURING CONSTRUCTION: DURING CONSTRUCTION OF THE WORK, THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE SITE OF THE WORK AND ADJACENT PREMISES AS FREE FROM MATERIAL,	
14	. PROTECTION OF EXISTING UTILITIES: AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT", TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800–245–4545 OR 811) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS BEING PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM. THE LOCATION AND DIMENSIONS SHOWN ON THE PLANS RELATIVE TO EXISTING UTILITIES ARE BASED ON THE RECORDS AND/OR FIELD INFORMATION AVAILABLE AND ARE NOT GUARANTEED BY THE COUNTY OR ENGINEER TO BE ACCURATE AS TO LOCATION AND DEPTH. IT SHALL BE THE CONTRACTOR'S	DEBRIS AND RUBBISH AS IS PRACTICABLE AND SHALL REMOVE SAME FROM ANY PORTION OF THE SITE IF, IN THE OPINION OF THE COUNTY, SUCH MATERIAL, DEBRIS, OR RUBBISH CONSTITUTES A NUISANCE OR IS OBJECTIONABLE. IN CASE OF FAILURE ON THE PART OF THE CONTRACTOR UNDER HIS CONTRACT, OR WHERE R SUFFICIENT CONTRACT FUNDS ARE UNAVAILABLE FOR THIS PURPOSE, THE CONTRACTOR OR HIS SURETY SHALL REIMBURSE THE COUNTY FOR ALL SUCH COSTS.	
		gue nall and perkins, inc	
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		214.461.9867 ph 214.461.9864 fx 125514	US HWY 175 N, TX 75142
			-376-4100
no	revision by date		

- **ADWAYS**:
- ROPERTIES.

- WINGS:

# TES:

SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF EXISTING PAVED ROADS. ALL COSTS ASSOCIATED WITH MAINTAINING THE EXISTING ROADS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.

SHALL TAKE ALL PRECAUTIONS NECESSARY TO CONTROL DUST ON THE PROJECT SITE BY SPRINKLING OF WATER, OR ANY OTHER METHODS E GOVERNING AUTHORITIES, AND SHALL PROVIDE ALL EQUIPMENT AND PERSONNEL REQUIRED TO PREVENT DUST FROM BECOMING A NUISANCE TO

# OR FINAL ACCEPTANCE:

R SHALL MAKE A FINAL CLEAN UP OF ALL PARTS OF THE WORK BEFORE ACCEPTANCE BY THE COUNTY. THIS CLEAN UP SHALL INCLUDE REMOVAL WABLE MATERIALS AND, IN GENERAL, PREPARING THE SITE OF THE WORK IN AN ORDERLY MANNER OF APPEARANCE.

# DEFECTIVE AND UNAUTHORIZED WORK:

HAS BEEN REJECTED SHALL BE REPAIRED, OR IF IT CANNOT BE REPAIRED SATISFACTORILY, IT SHALL BE REMOVED AND REPLACED AT THE PENSE. DEFECTIVE MATERIALS SHALL BE IMMEDIATELY REMOVED FROM THE WORK SITE. WORK DONE BEYOND THE LINE OR NOT IN CONFORMITY SHOWN ON THE DRAWINGS OR AS PROVIDED, WORK DONE WITHOUT REQUIRED INSPECTION, OR ANY EXTRA OR UNCLASSIFIED WORK DONE WITHOUT ITY AND PRIOR AGREEMENT IN WRITING AS TO PRICES SHALL BE AT THE CONTRACTOR'S RISK, WILL BE CONSIDERED UNAUTHORIZED, AND AT THE COUNTY MAY NOT BE MEASURED AND PAID FOR AND MAY BE ORDERED REMOVED AT THE CONTRACTOR'S EXPENSE. UPON FAILURE OF THE REPAIR SATISFACTORILY OR TO REMOVE AND REPLACE, IF SO DIRECTED, REJECTED, UNAUTHORIZED OR CONDEMNED WORK OR MATERIALS ER RECEIVING NOTICE FROM THE COUNTY, THE COUNTÝ WILL, AFTER GIÝING WRITTEN NOTICE TO THE CONTRACTOR, HAVE THE AUTHORITY TO CAUSE TO BE REMEDIED OR REMOVED AND REPLACED, OR TO CAUSE UNAUTHORIZED WORK TO BE REMOVED AND TO DEDUCT THE COST THEREOF FROM OR TO BECOME DUE THE CONTRACTOR.

# AND DISPOSAL OF EXCESS AND UNSUITABLE MATERIALS:

TO BE REMOVED FROM THE SITE INCLUDING BUT NOT LIMITED TO EXCESS MATERIAL AND UNSUITABLE MATERIALS SUCH AS CONCRETE, ASPHALT, REFUSE, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL ALSO COMPLY WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILE TRANSPORTING

R SHALL PROVIDE SEEDING, WATERING, FERTILIZING AND REQUIRED MAINTENANCE FOR THE GRASSING OF ALL UNPAVED AREAS OF DEDICATED EASEMENTS, AND ALL OTHER DISTURBED AREAS OF CONSTRUCTION. SEEDING SHALL ALSO BE PROVIDED IN CONFORMANCE WITH THE REQUIREMENTS STORM WATER POLLUTION PREVENTION PLAN IN ORDER TO ESTABLISH A GRASS COVER ON DISTURBED AREAS SUBJECTED TO THE EROSION OF THE

SHALL MAINTAIN AN ACCURATE RECORD OF THE INSTALLATION OF ALL MATERIALS AND SYSTEMS COVERED BY THE PROJECT CONTRACT ESE RECORD PRINTS WILL BE REVIEWED BY THE COUNTY EACH MONTH PRIOR TO THE PRELIMINARY REVIEW OF THE CONTRACTOR'S REQUEST FOR DRAWINGS ARE NOT COMPLETE, ACCURATE AND UP—TO DATE, THE COUNTY WILL NOT ACCEPT THE PAYMENT REQUEST. THE COMPLETED SET OF NGS MUST BE DELIVERED TO THE COUNTY BEFORE REQUESTING FINAL PAYMENT.

R'S PERSONNEL SHALL WEAR IDENTIFYING CLOTHING OR HATS AT ALL TIMES.

SHALL VERIFY THE ELEVATION, CONFIGURATION, AND ANGULAITON OF EXISTING LINES PRIOR TO CONSTRUCTION OR ACQUIRING OF MATERIALS. CATION SHALL BE CONSIDERED AS SUBSIDIARY TO THE COST OF PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

HALL BE PERFORMED IN ACCORDANCE WITH KAUFMAN COUNTY STANDARDS, EXCEPT WHERE MODIFIED IN THESE PLANS OR IN THE SPECIAL OF THE CONTRACT DOCUMENTS.

CTOR SHALL REMOVE FROM THE PROJECT AREA ALL SURPLUS MATERIAL. THIS SHALL BE INCIDENTAL AND NOT A SEPARATE PAY ITEM. SURPLUS FROM EXCAVATION INCLUDING DIRT, TRASH, ETC. SHALL BE PROPERLY DISPOSED.

NT A STREET IS TO BE CLOSED AND/OR TRAFFIC IS TO BE REROUTED DURING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR WILL HAVE THE DNSIBILITY OF SUBMITTING A TRAFFIC CONTROL PLAN DIRECTLY TO THE COUNTY FOR APPROVAL.

PUCTION SHALL BE COMPLIANT WITH THE STANDARDS IN THE CURRENT VERSION OF THE KAUFMAN COUNTY SUBDIVISION AND LAND DEVELOPMENT

, pavements, structures, utilities, walks, etc. which are intended to remain and are damaged by the contractor shall be repaired ITRACTOR WITHOUT ADDITIONAL COMPENSATION. ALL ITEMS SHALL BE RESTORED TO EXISTING OR BETTER CONDITION AS PER STANDARD DRAWINGS CTED BY KAUFMAN COUNTY.

UCTION ITEM OR REQUIRED WORK SHOWN ON THESE PLANS FOR WHICH THERE IS NO SPECIFIC BID ITEM IN PROPOSAL SHALL BE CONSIDERED TO THE OTHER BID ITEMS AND NO SEPARATE PAYMENT SHALL BE MADE.

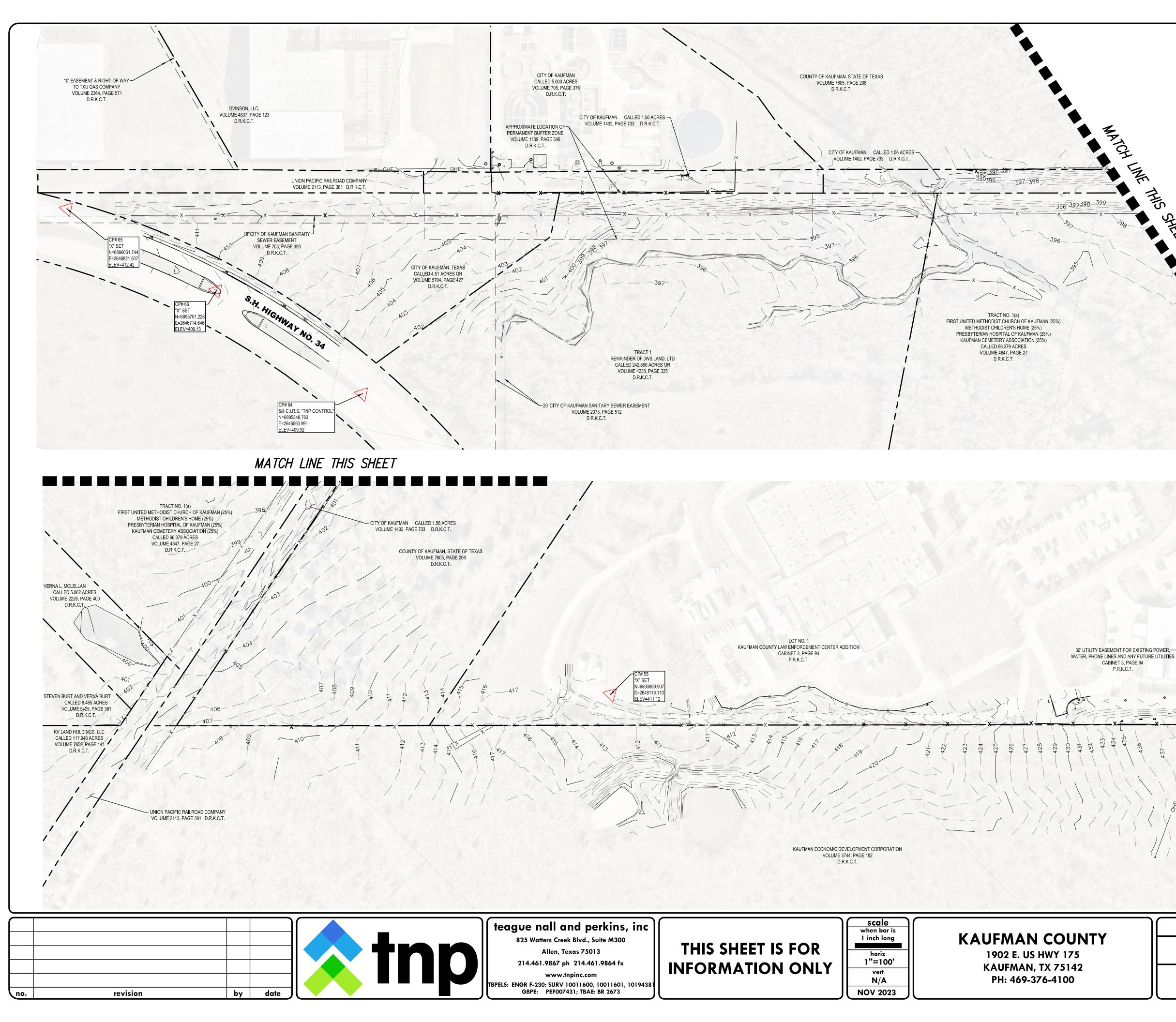
EAS WITHIN THE RIGHT—OF—WAY SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH ASTM D698 AT, OR UP TO 5 POINTS ABOVE, OPTIMUM MOISTURE CONTENT, UNLESS OTHERWISE STATED IN PLANS.

SHALL PROVIDE, CONSTRUCT, AND MAINTAIN AT ALL TIMES, BARRICADES, SIGNS, DETOURS, FLAG-MEN, SIGNALS, ETC. IN ACCORDANCE WITH THE T BARRICADE AND CONSTRUCTION STANDARDS FROM THE 2011 TEXAS MÁNUAL ÓF UNIFORM TRAFFIC CONTROL DEVICES – REVISION 2, PART VI. IN INTRACTOR SHALL PROVIDE AND MAINTAIN SUCH OTHER BARRICADES AND SIGNS AS DIRECTED BY KAUFMAN COUNTY.

CTOR SHALL ENSURE THAT FIRE HYDRANTS REMAIN ACCESSIBLE TO FIRE TRUCKS AT ALL TIMES DURING CONSTRUCTION.

CTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL EXISTING VALVE COVERS, MANHOLES, AND OTHER SURFACE APPURTENANCES THAT WILL REMAIN WHICH WILL BE AFFECTED BY GRADE CHANGES.

KAUFMAN, TEXAS	tnp project KFM22494
Improvements for US 175 - SH 34 CONNECTOR ROADS	sheet 2
GENERAL NOTES	

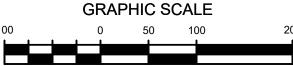


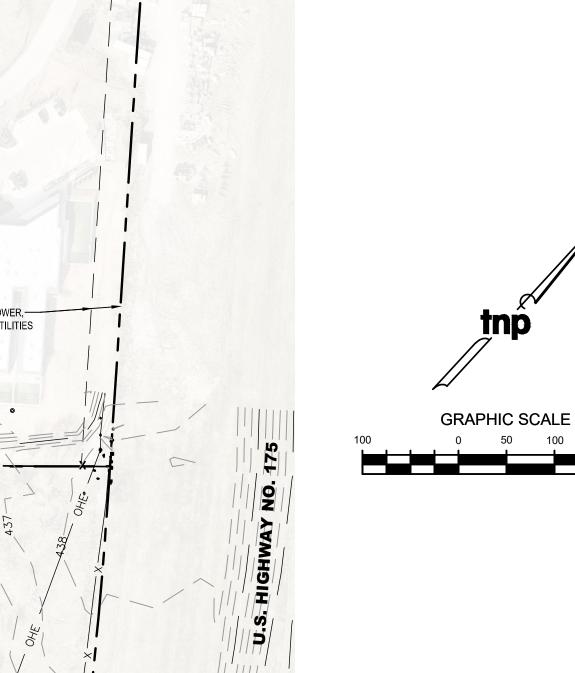
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POINT #	NORTHING	EASTING	DESCRIPTION	ELEVATION		
55	6893860.907	2648119.110	"X" SET	411.12		
64	6895348.763	2646560.991	5/8 C.I.R.S. TNP CONTROL"	409.92		
65	6895701.226	2646714.646	"X" SET	409.13		
66	6896051.744	2646821.507	"X" SET	412.42		

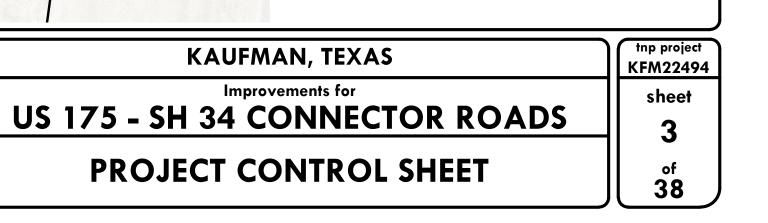
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SURVEY NOTE: 1. BEARINGS ARE REFERENCED TO GRID NORTH OF THE TEXAS COORDINATE SYSTEM OF 1983 (NORTH CENTRAL ZONE 4202; NAD83(2011) EPOCH 2010). DISTANCES SHOWN HAVE BEEN ADJUSTED TO SURFACE BY APPLYING AN AVERAGE COMBINATION SCALE FACTOR OF 1.000114077

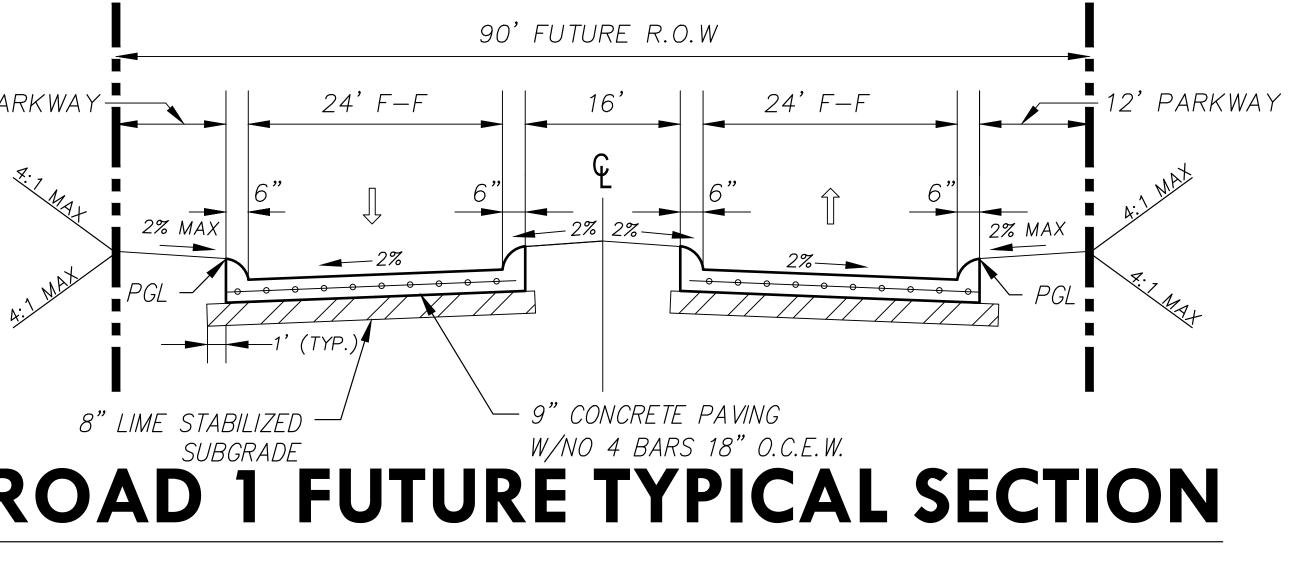


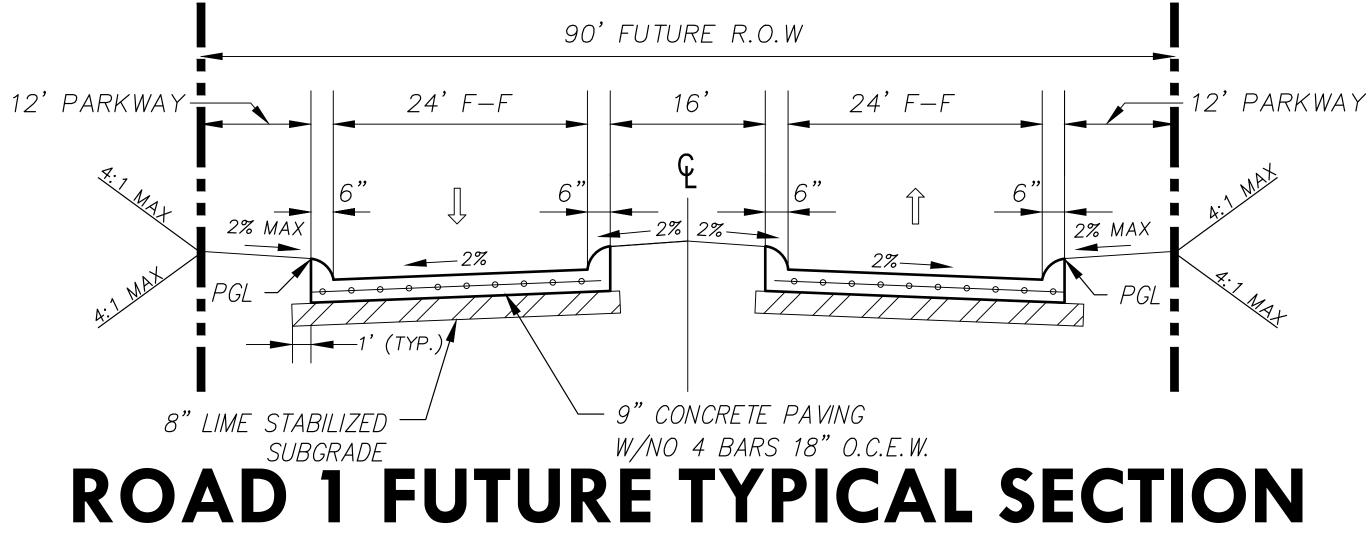




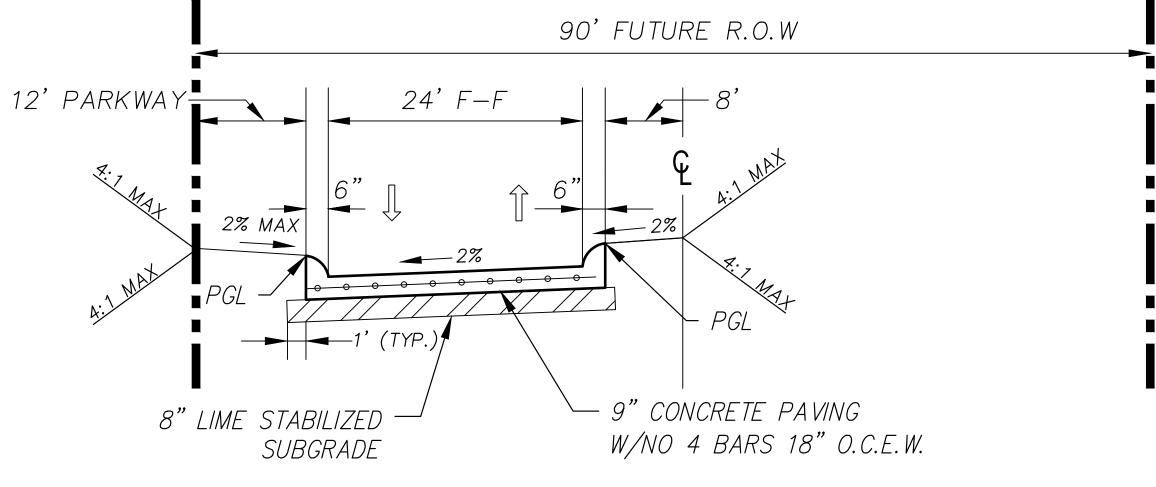


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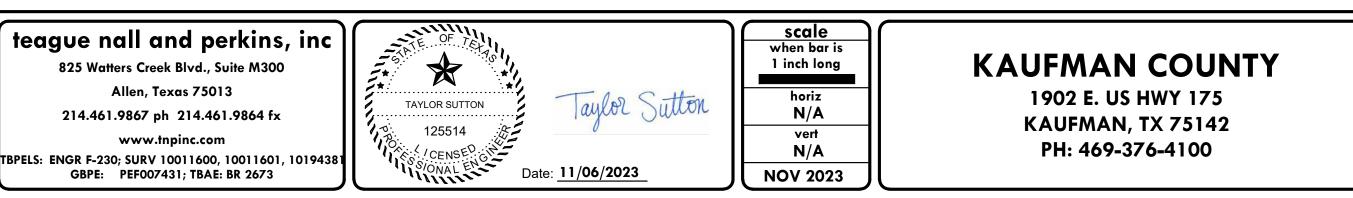


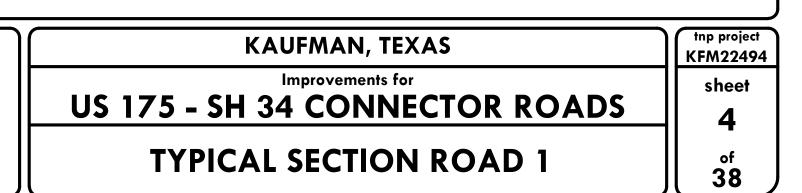


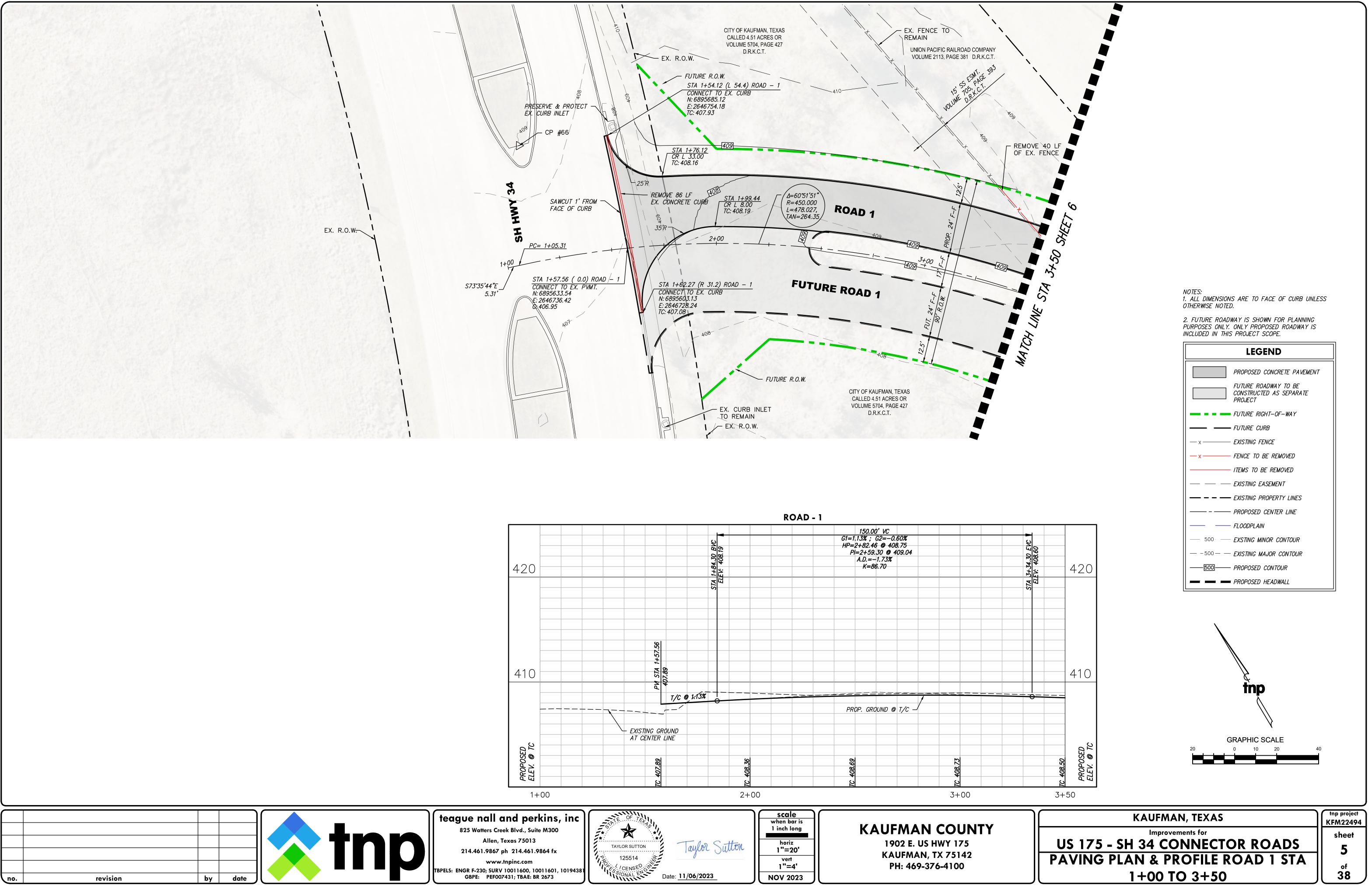




# **ROAD 1 PROPOSED TYPICAL SECTION**

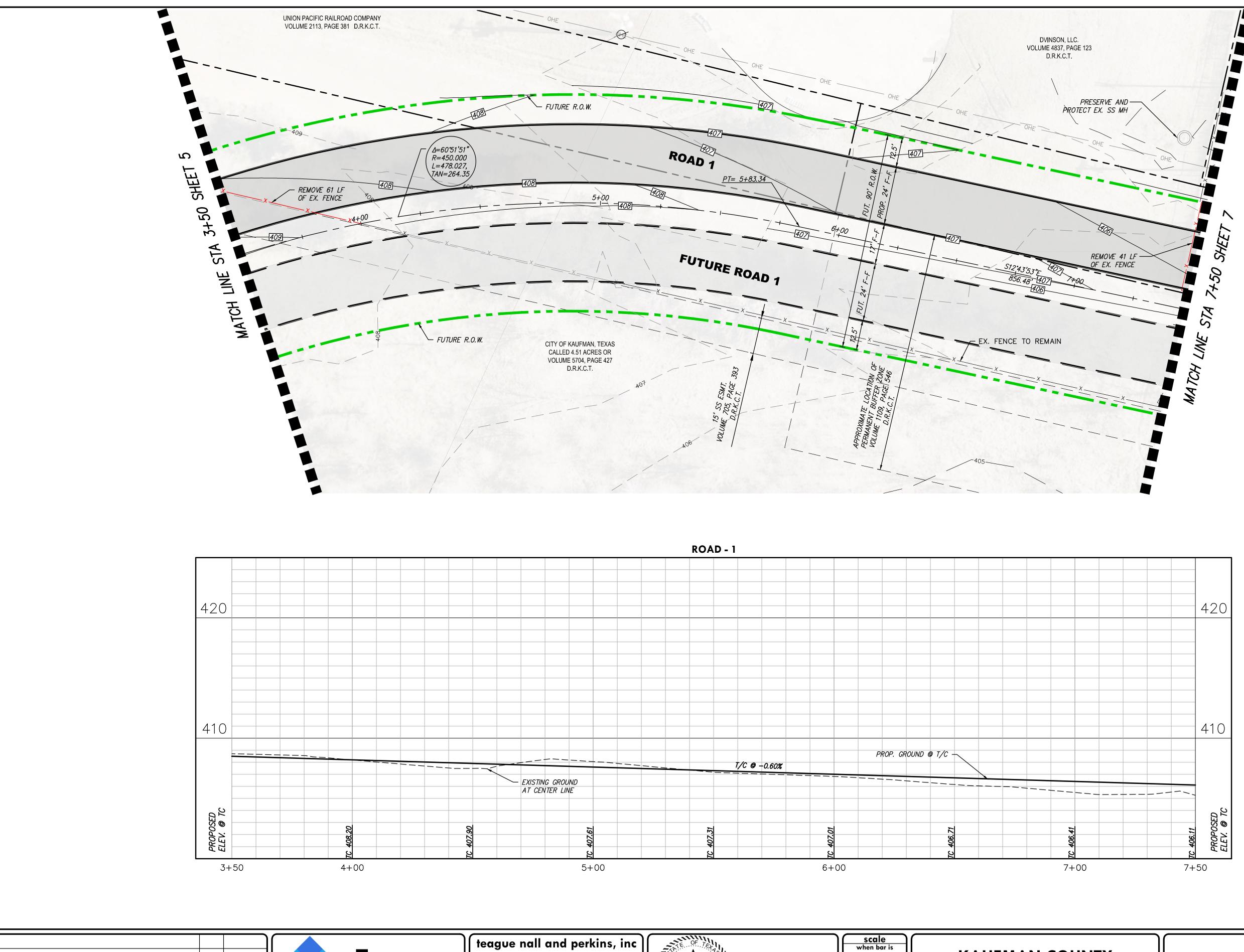






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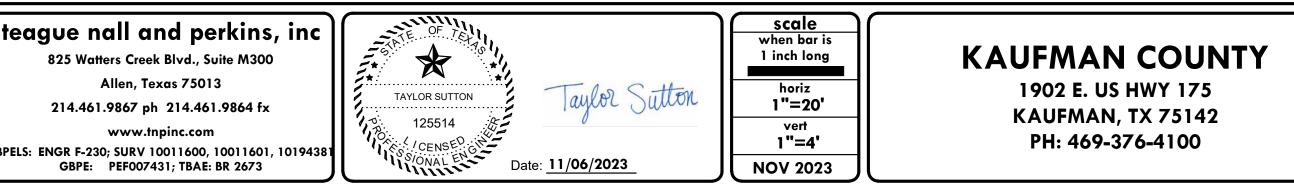


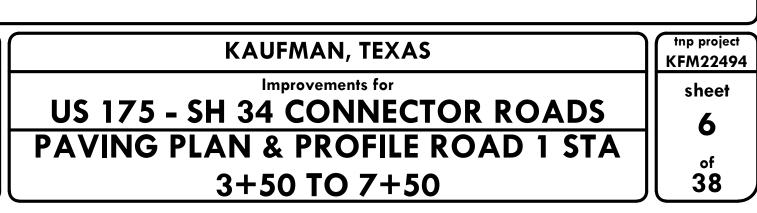


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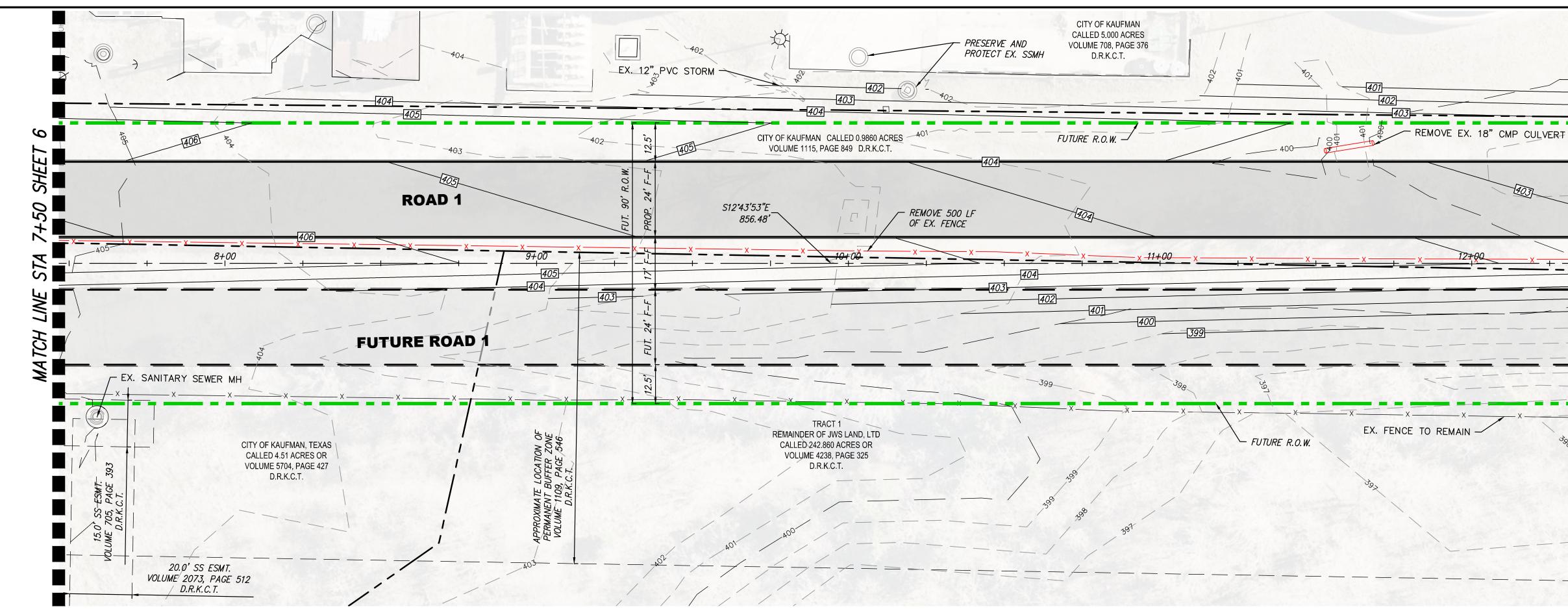


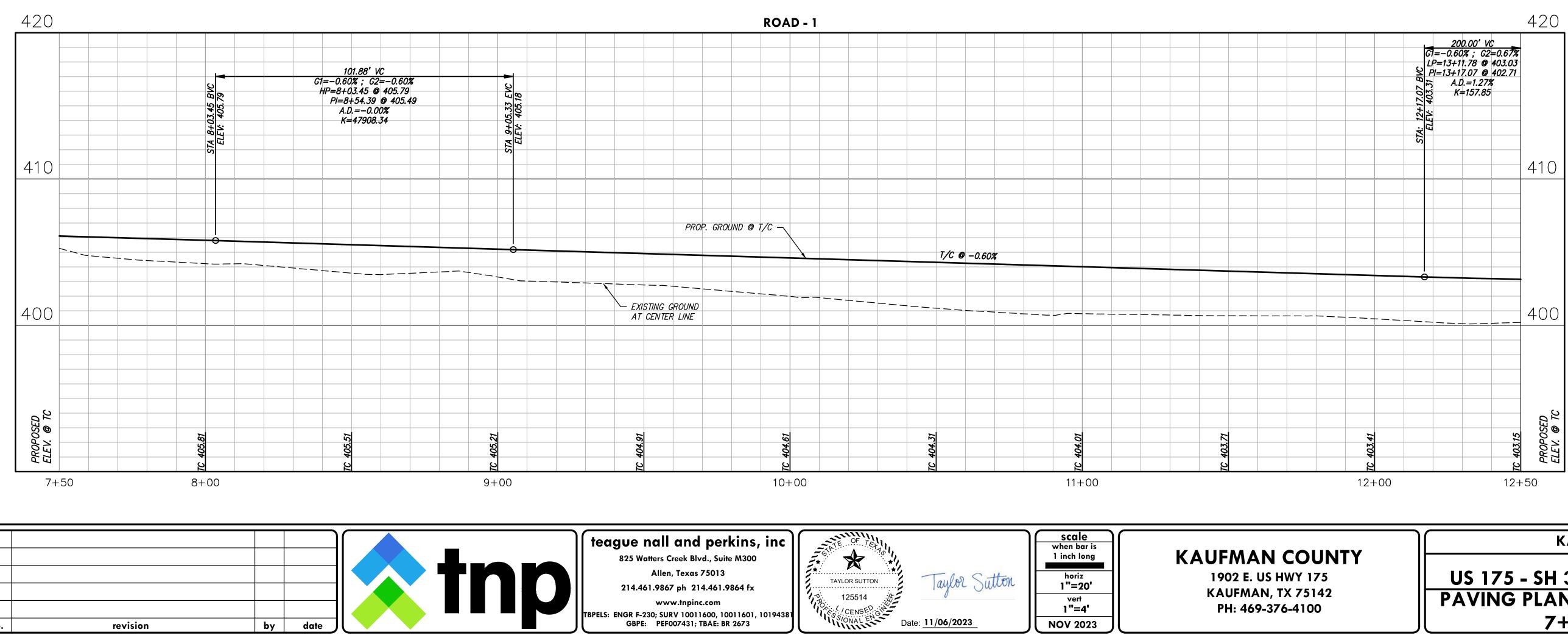


tnp **GRAPHIC SCALE** 

LEGEND				
PROPOSED CONCRETE PAVEMENT				
FUTURE ROADWAY TO BE CONSTRUCTED AS SEPARATE PROJECT				
FUTURE CURB				
ITEMS TO BE REMOVED				
EXISTING EASEMENT				
EXISTING PROPERTY LINES				
PROPOSED CENTER LINE				
FLOODPLAIN				
500 EXSTING MINOR CONTOUR				
— - 500— — EXISTING MAJOR CONTOUR				
PROPOSED HEADWALL				

2. FUTURE ROADWAY IS SHOWN FOR PLANNING PURPOSES ONLY. ONLY PROPOSED ROADWAY IS INCLUDED IN THIS PROJECT SCOPE.





GBPE: PEF007431; TBAE: BR 2673

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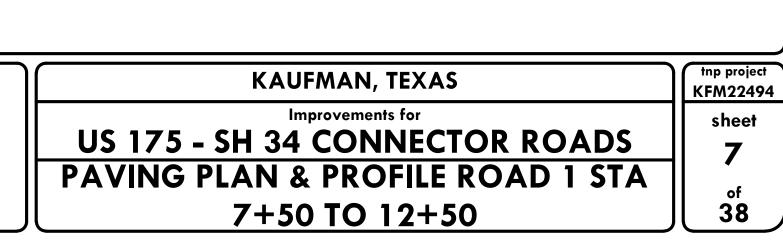
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Date: 11/06/2023

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INCLUDED IN THIS PROJECT SCOPE. LEGEND PROPOSED CONCRETE PAVEMENT FUTURE ROADWAY TO BE CONSTRUCTED AS SEPARATE PROJECT FUTURE RIGHT-OF-WAY ----- FUTURE CURB - FENCE TO BE REMOVED — x —— ITEMS TO BE REMOVED — — EXISTING EASEMENT

----- PROPOSED CENTER LINE

500 - EXSTING MINOR CONTOUR

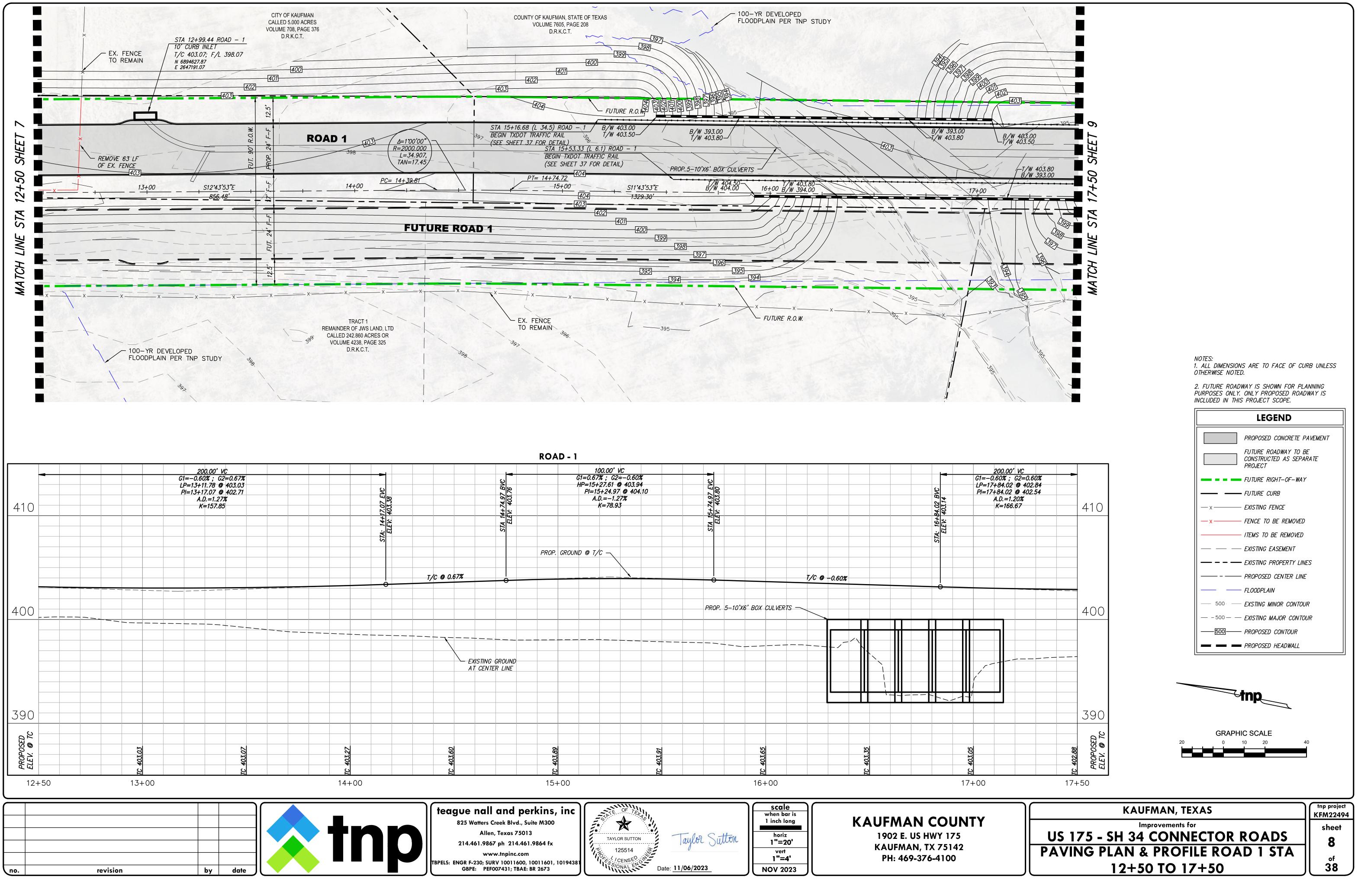
- - 500 - - EXISTING MAJOR CONTOUR

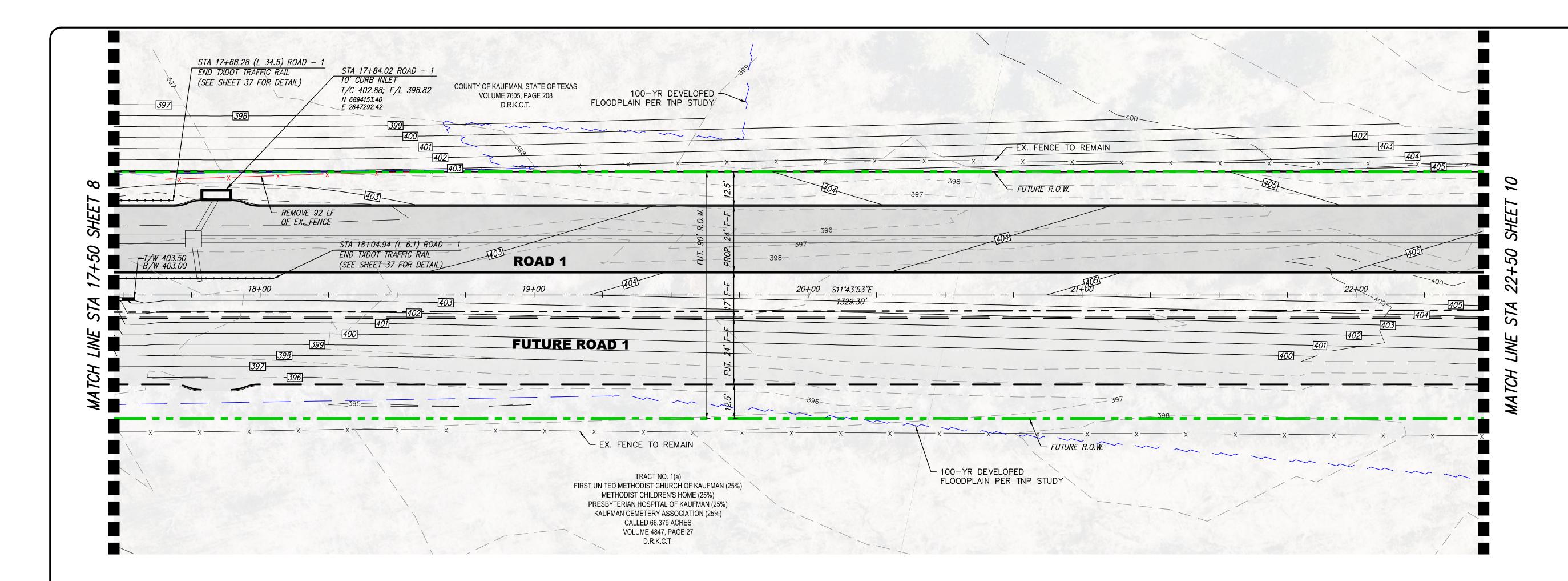
PROPOSED HEADWALL

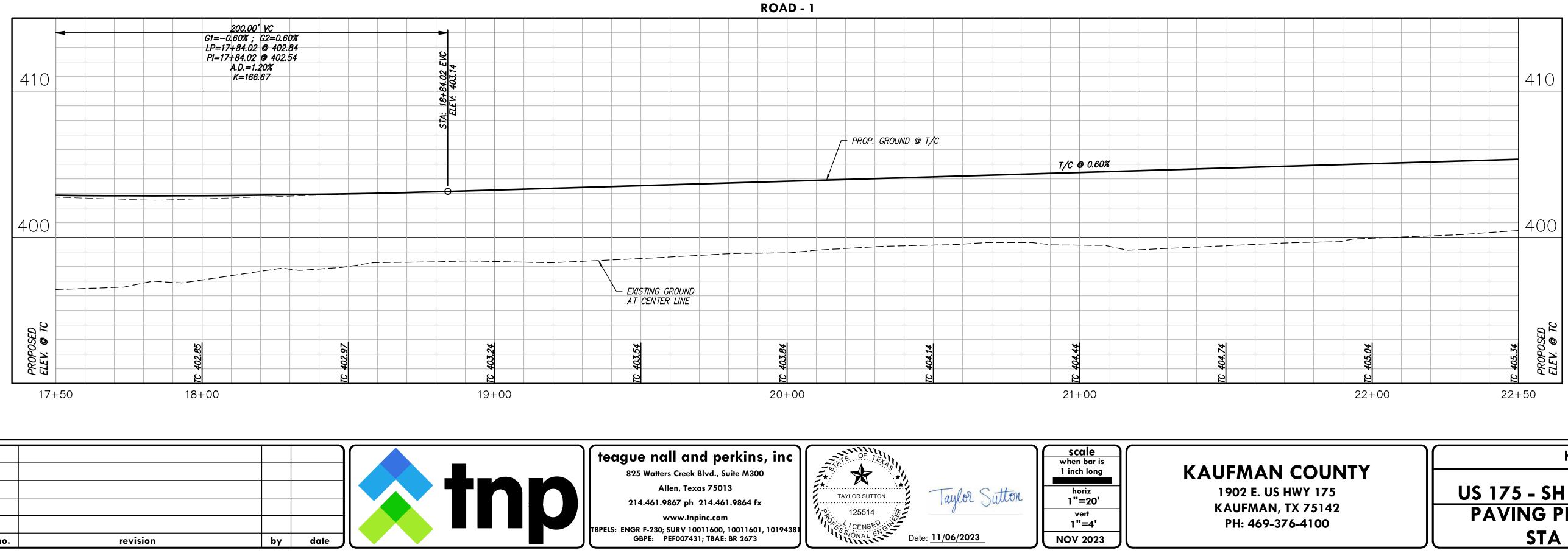
**GRAPHIC SCALE** 

----- FLOODPLAIN

2. FUTURE ROADWAY IS SHOWN FOR PLANNING PURPOSES ONLY. ONLY PROPOSED ROADWAY IS







GBPE: PEF007431; TBAE: BR 2673

Date: 11/06/2023

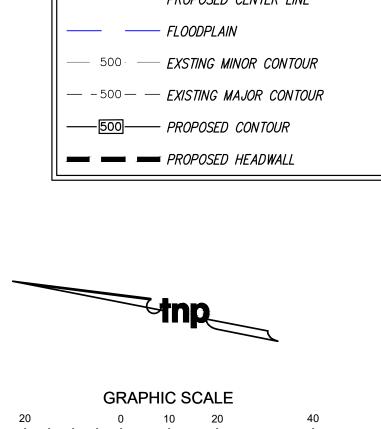
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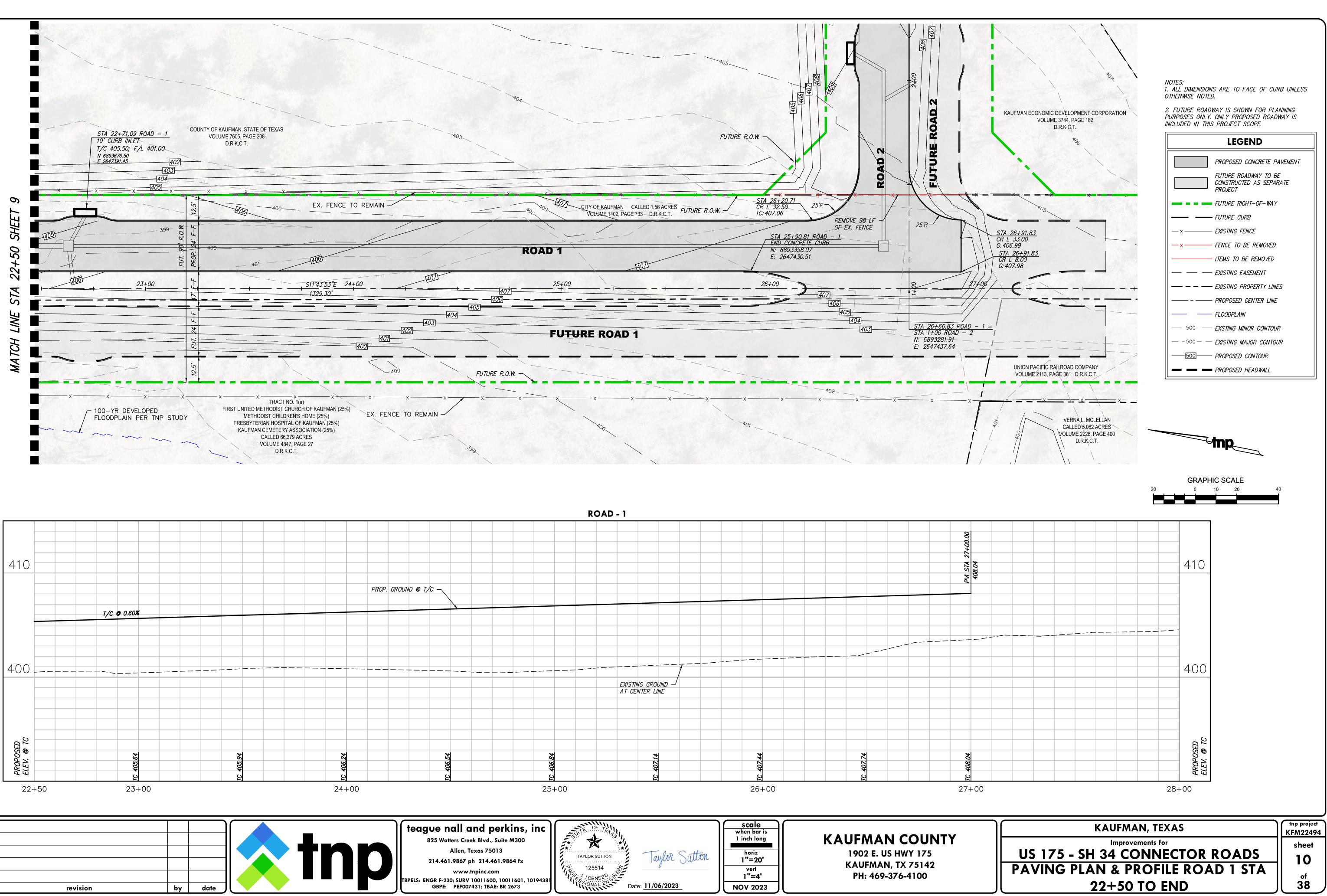
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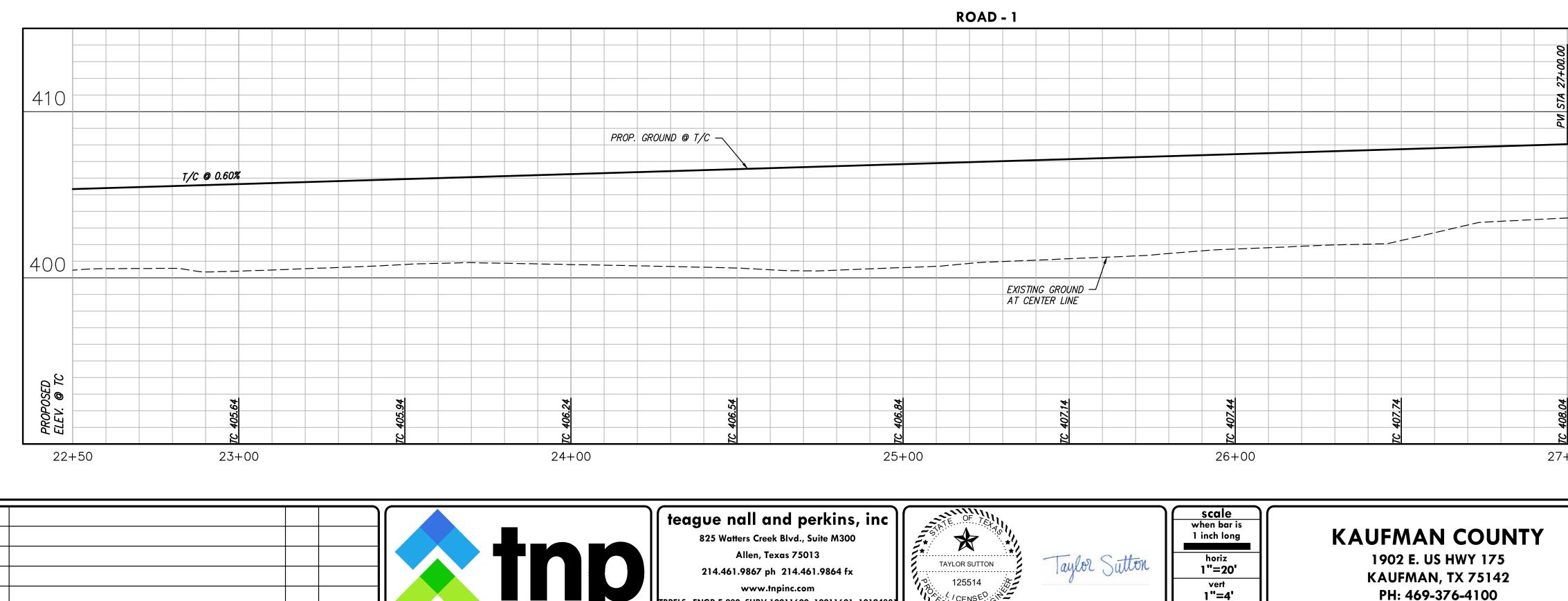


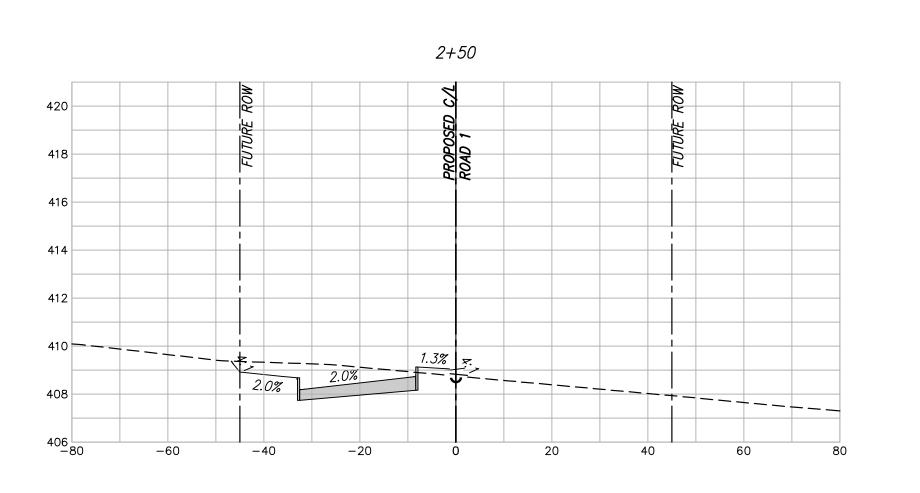


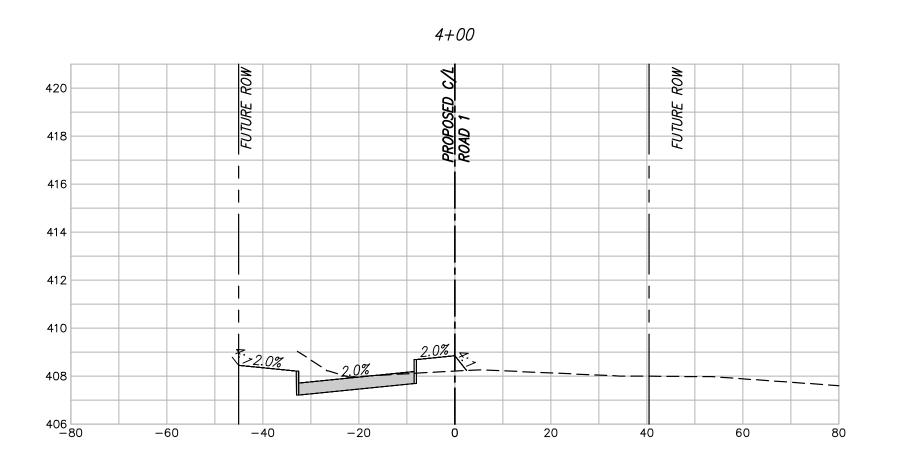
LEGEND						
	PROPOSED CONCRETE PAVEMENT					
	FUTURE ROADWAY TO BE CONSTRUCTED AS SEPARATE PROJECT					
	FUTURE RIGHT-OF-WAY					
	- FUTURE CURB					
— x —	- EXISTING FENCE					
— x —	- FENCE TO BE REMOVED					
	- ITEMS TO BE REMOVED					
	– EXISTING EASEMENT					
	- EXISTING PROPERTY LINES					
	- PROPOSED CENTER LINE					
	- FLOODPLAIN					
— 500 —	- EXSTING MINOR CONTOUR					
500						

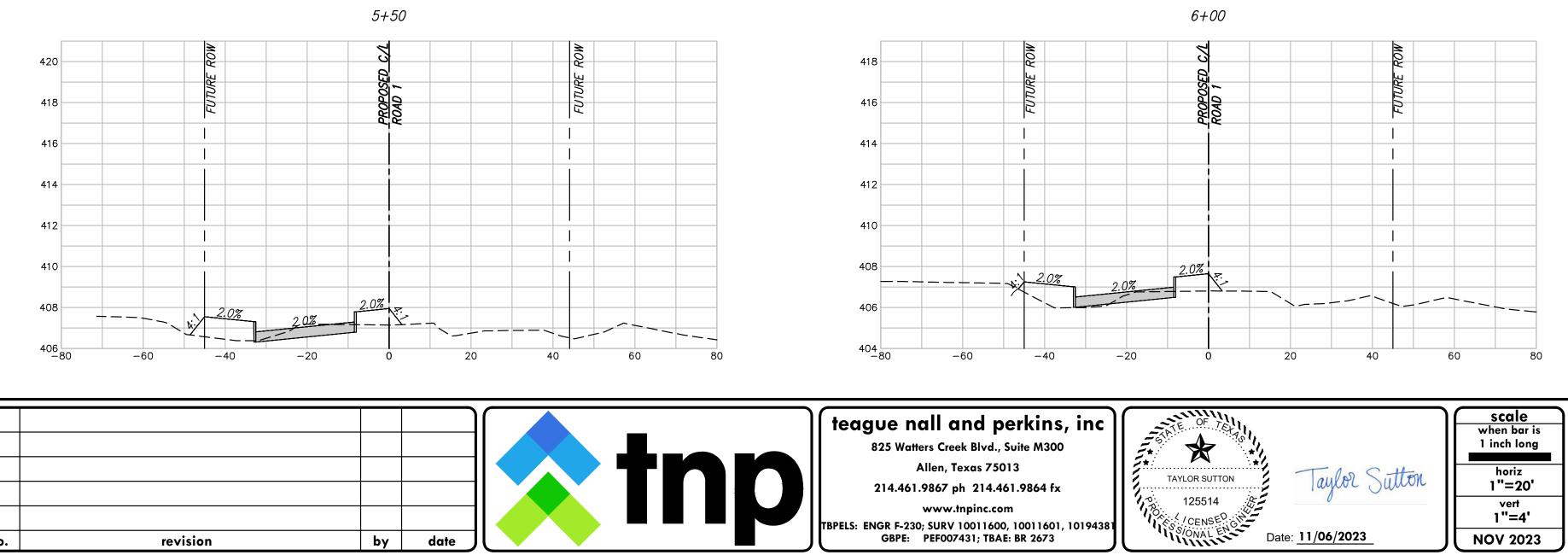
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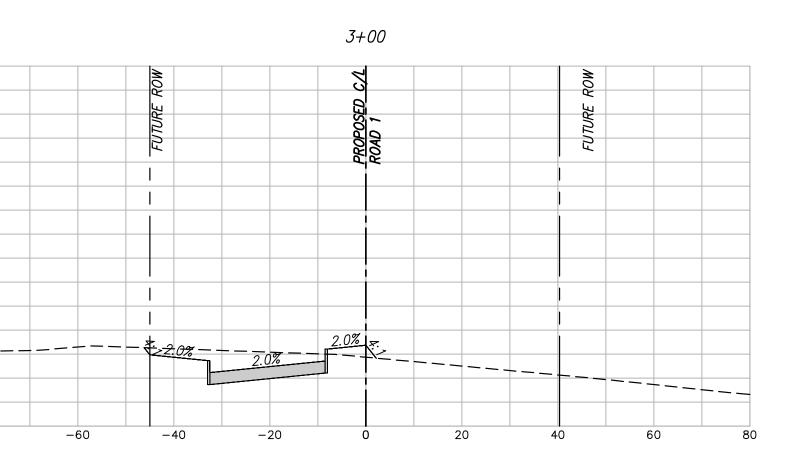


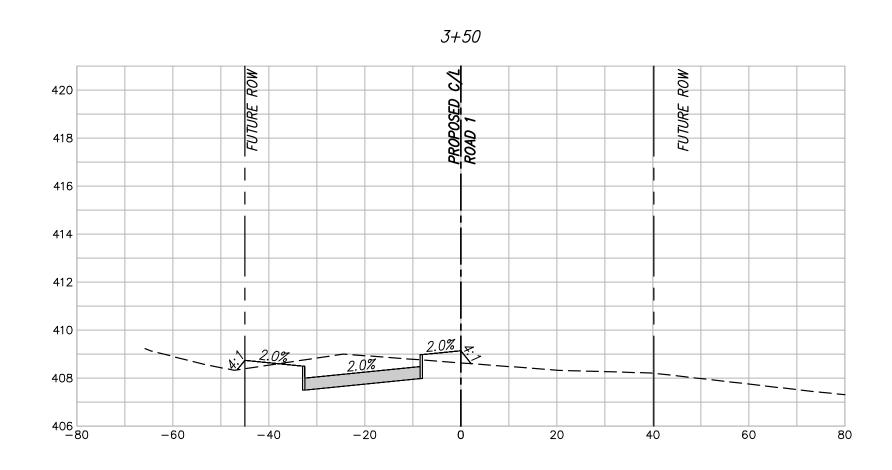


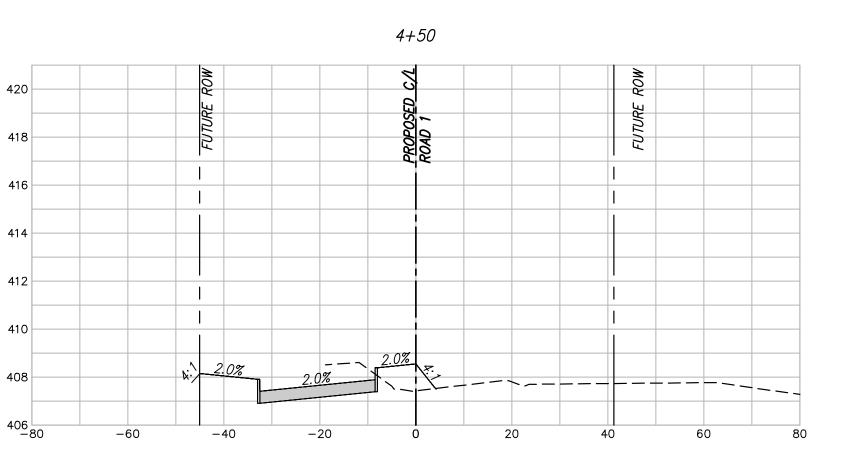


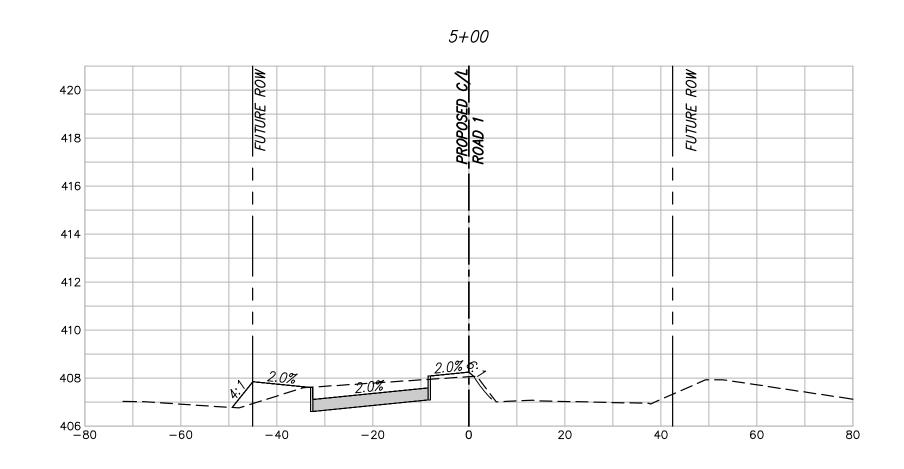


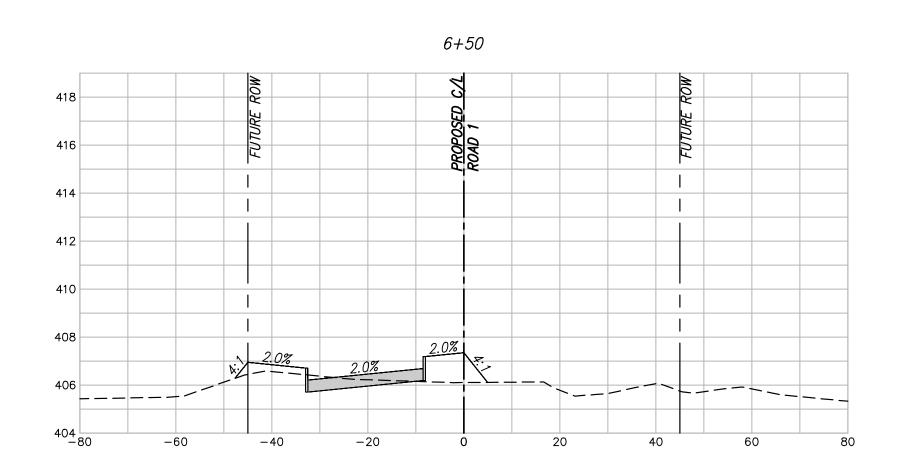
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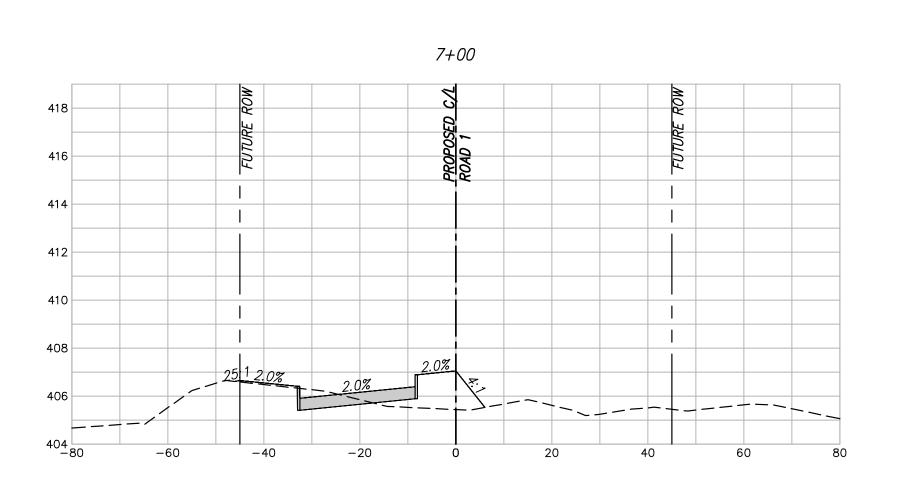


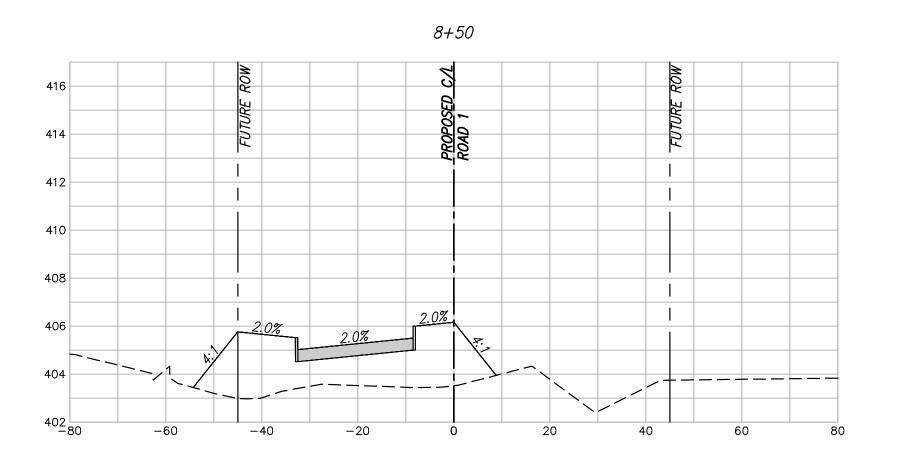


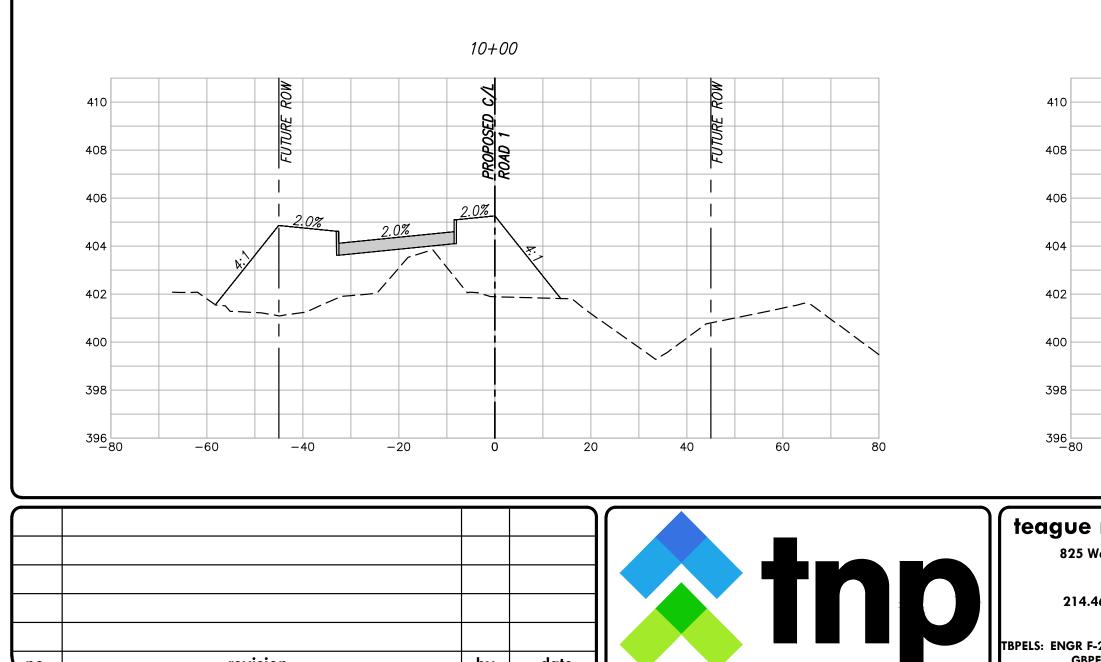
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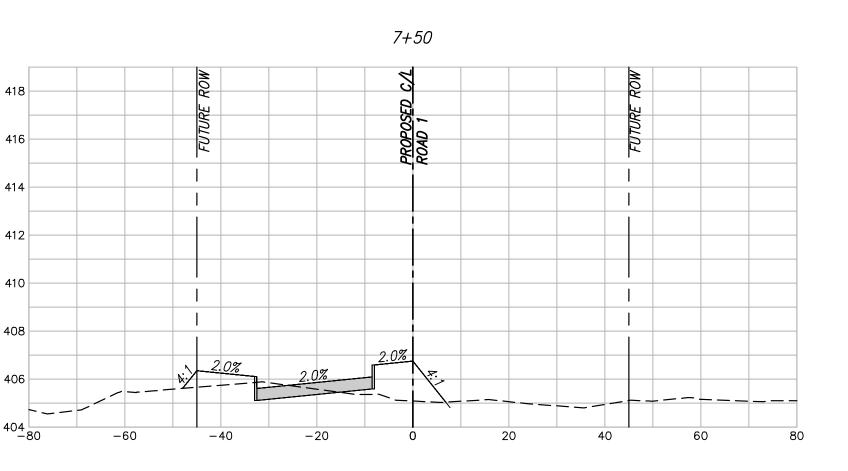
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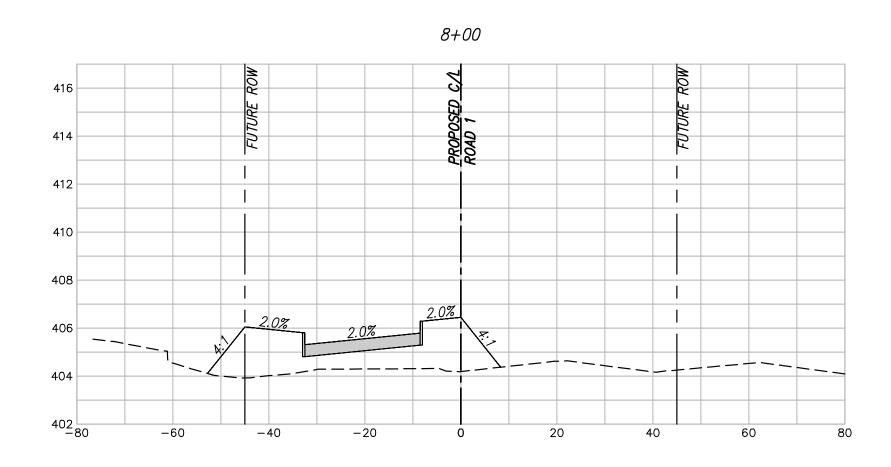
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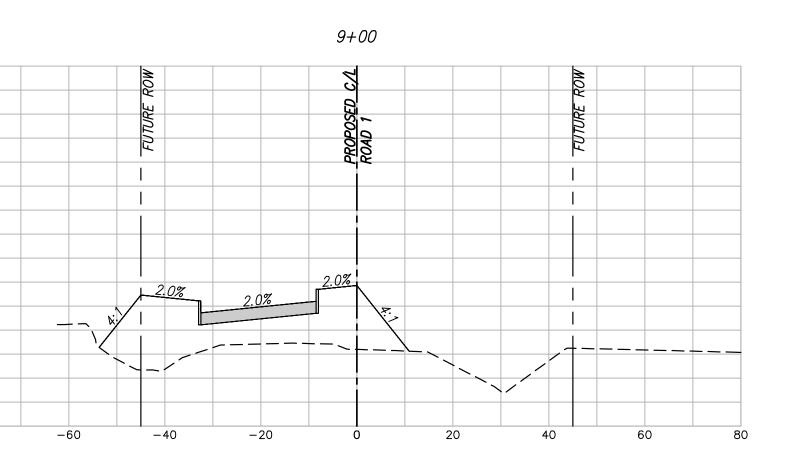
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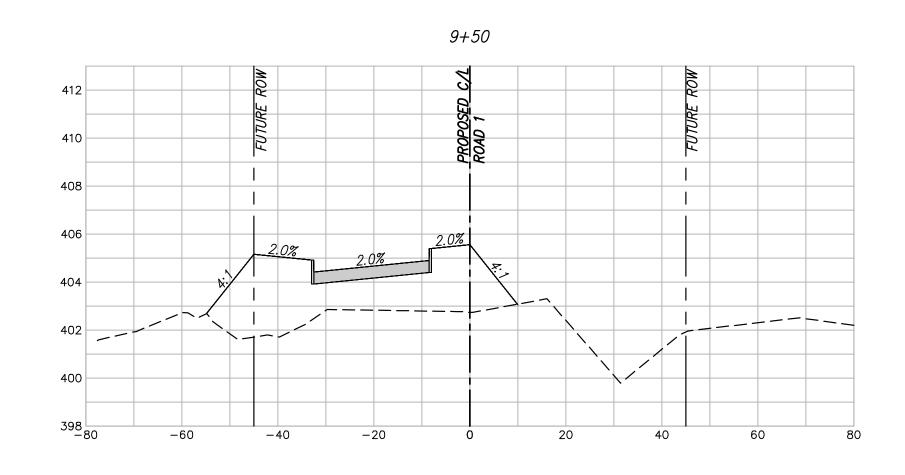
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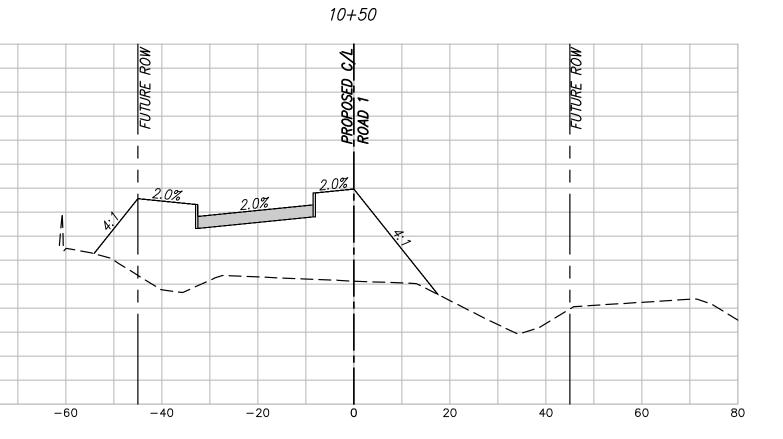
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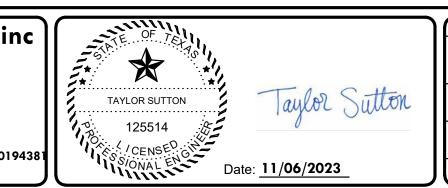








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scale when bar is 1 inch long

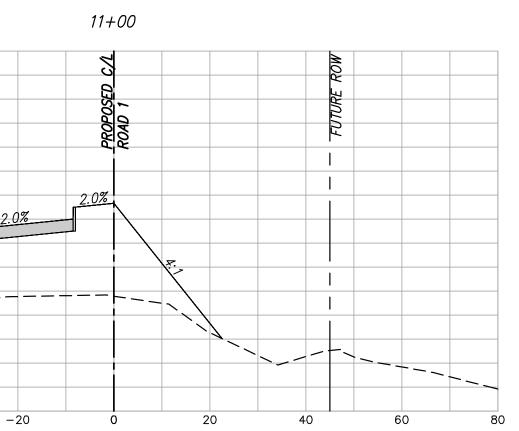
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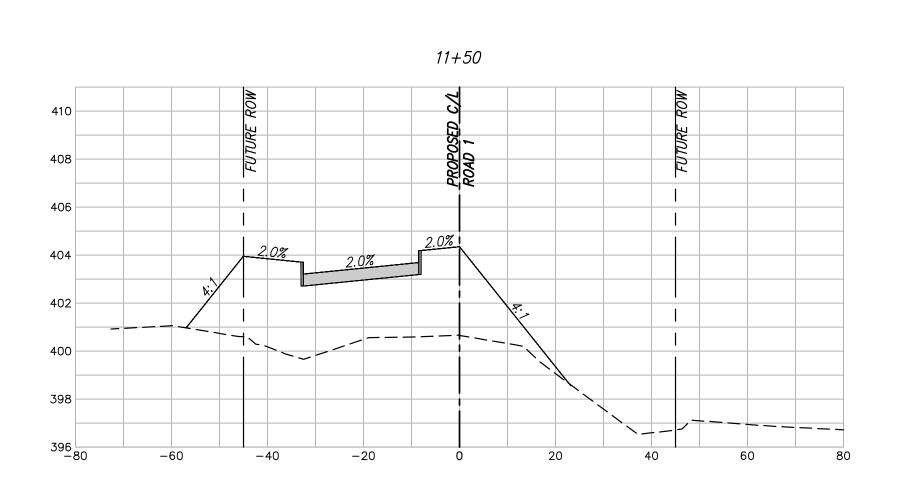
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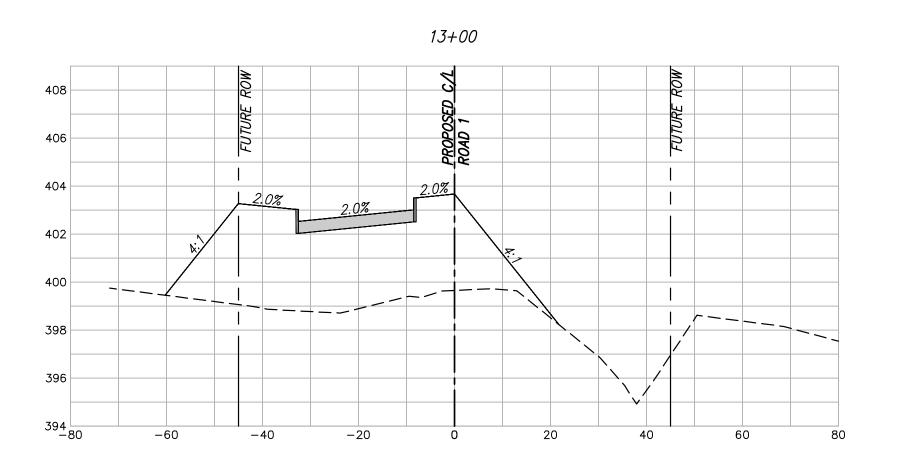
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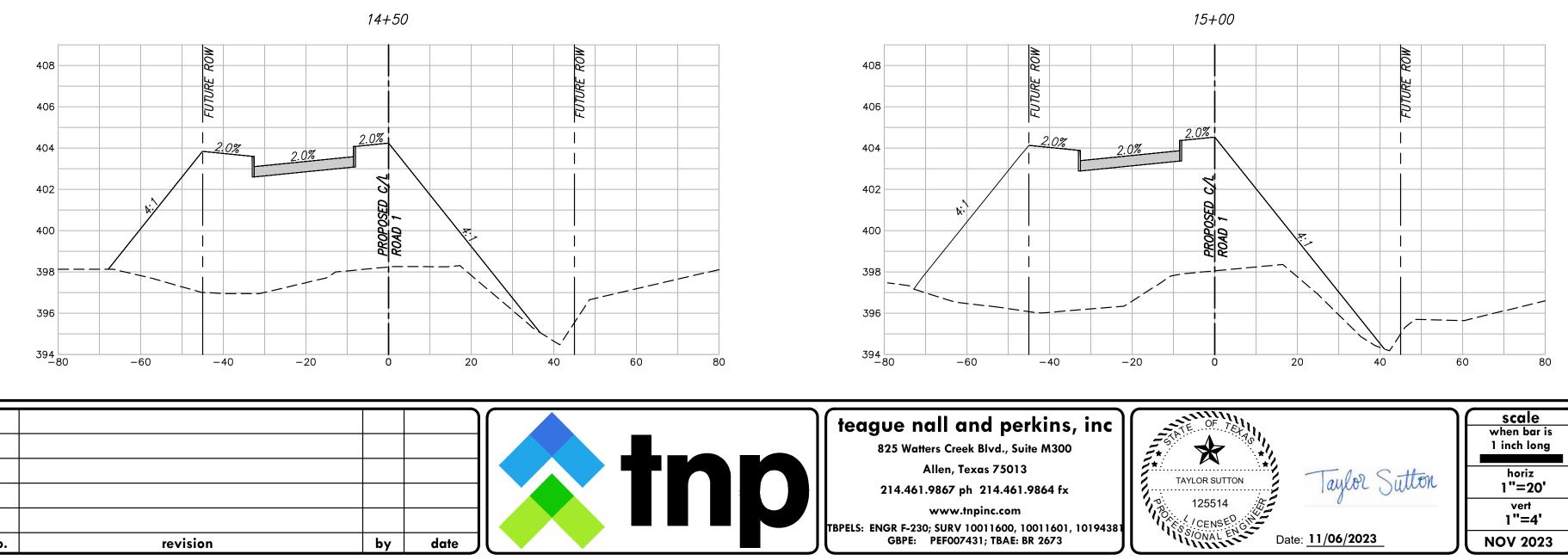












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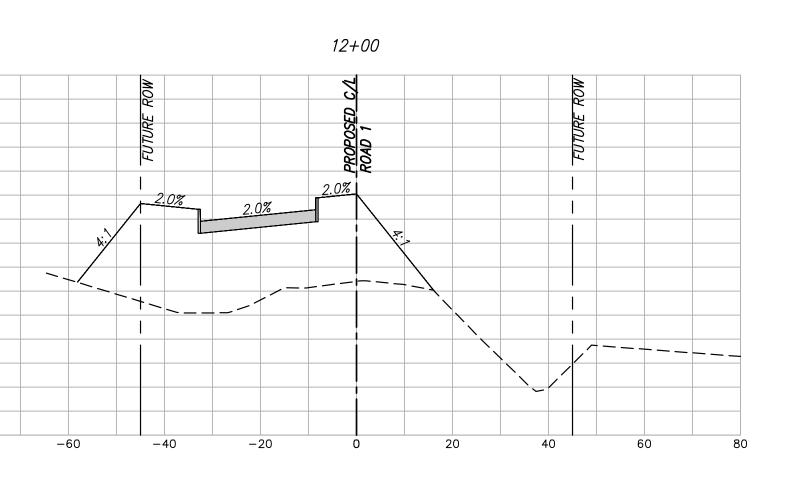
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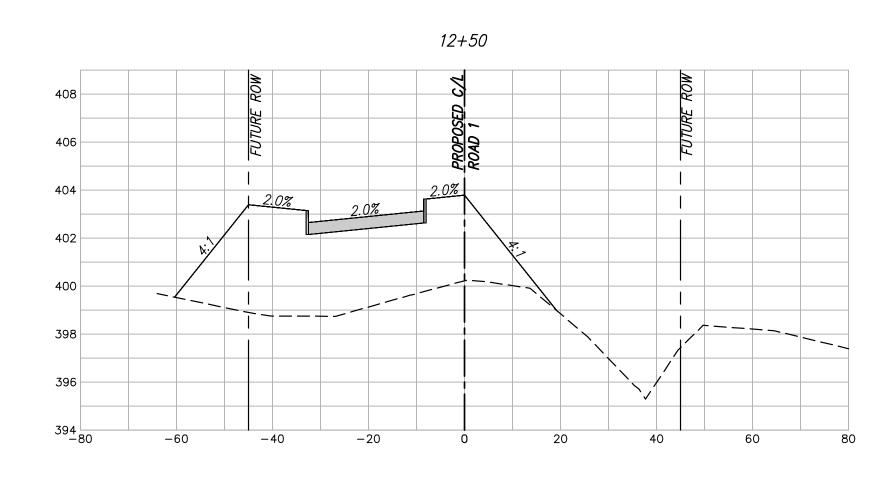
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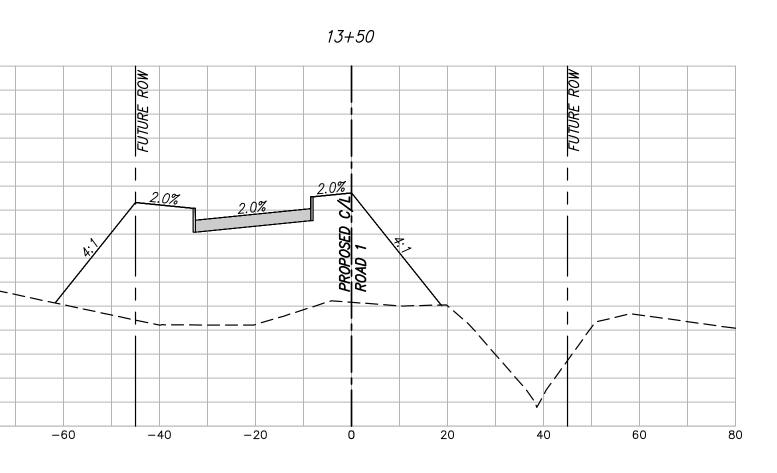
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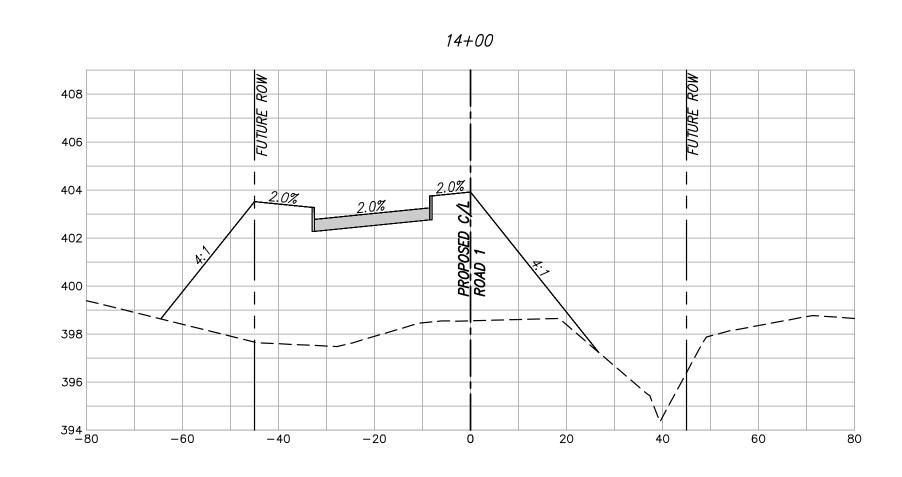
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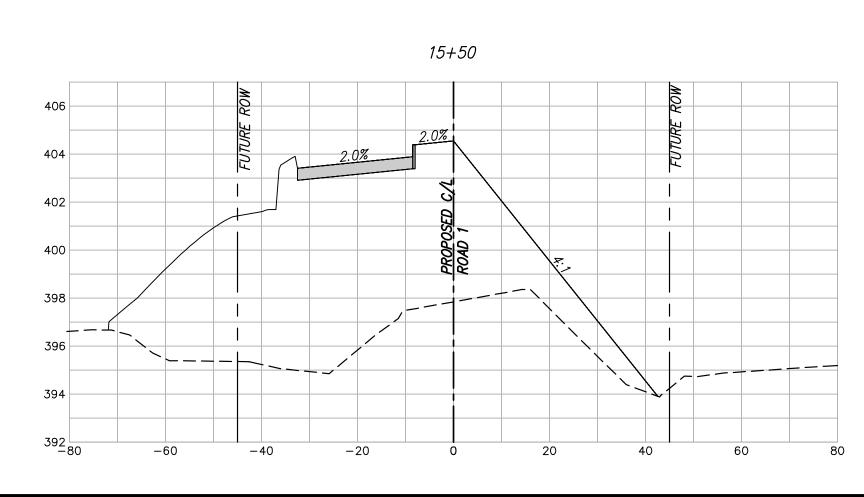
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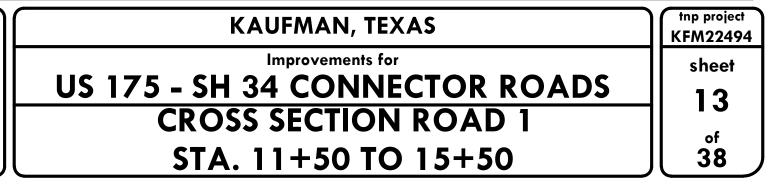


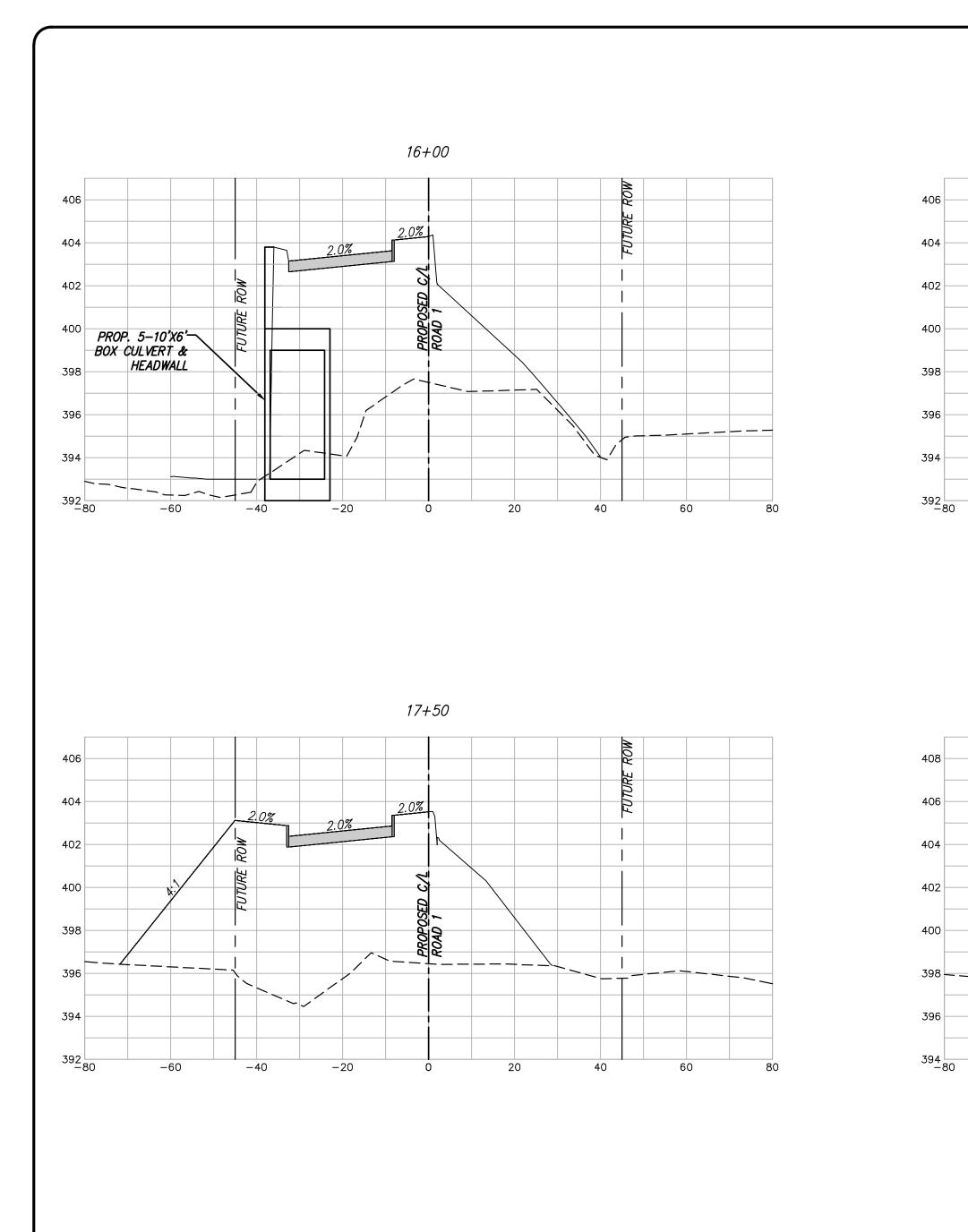


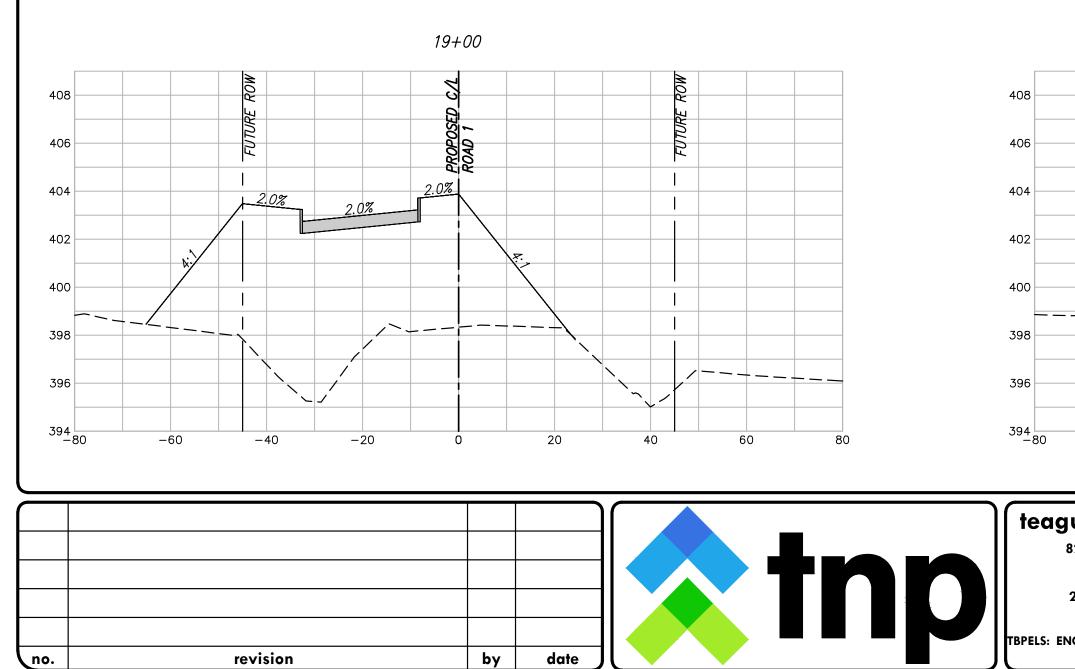


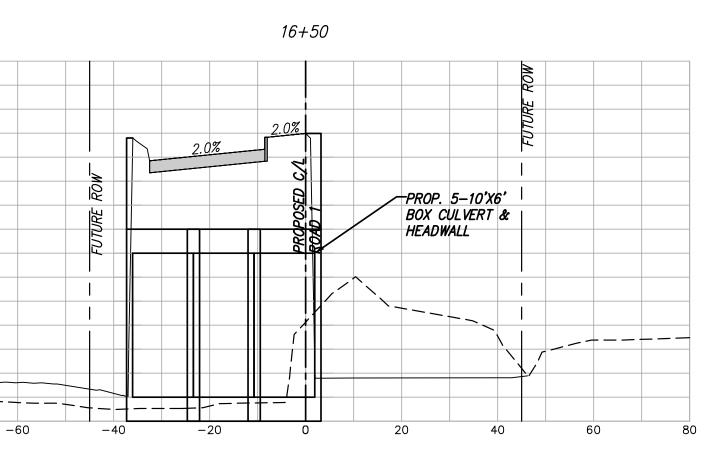


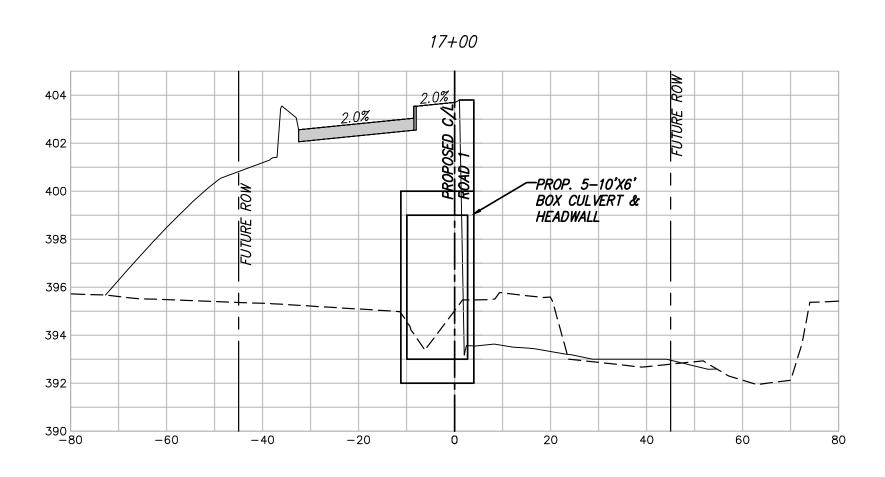


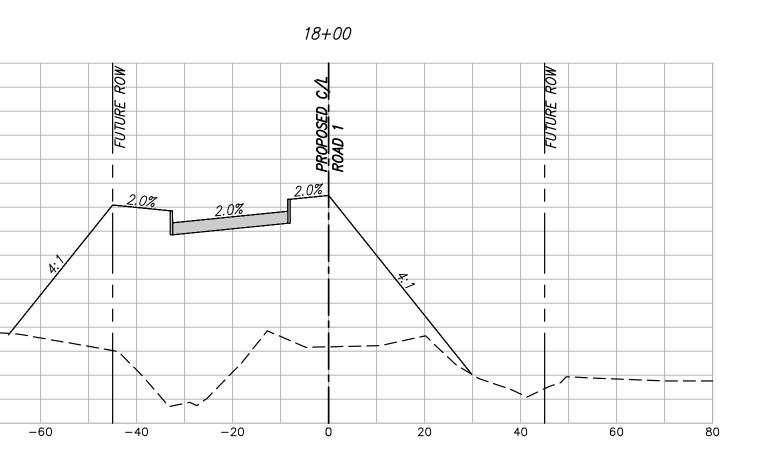


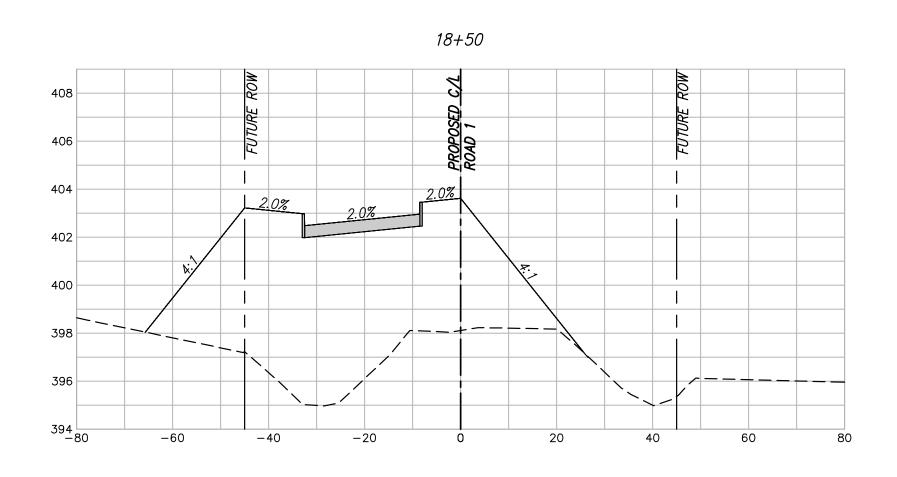


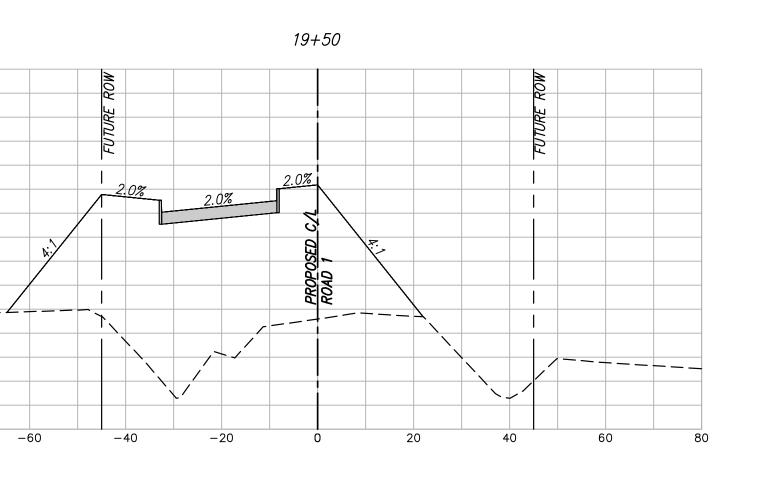




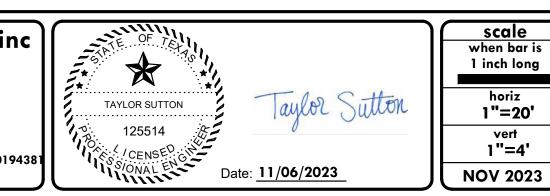






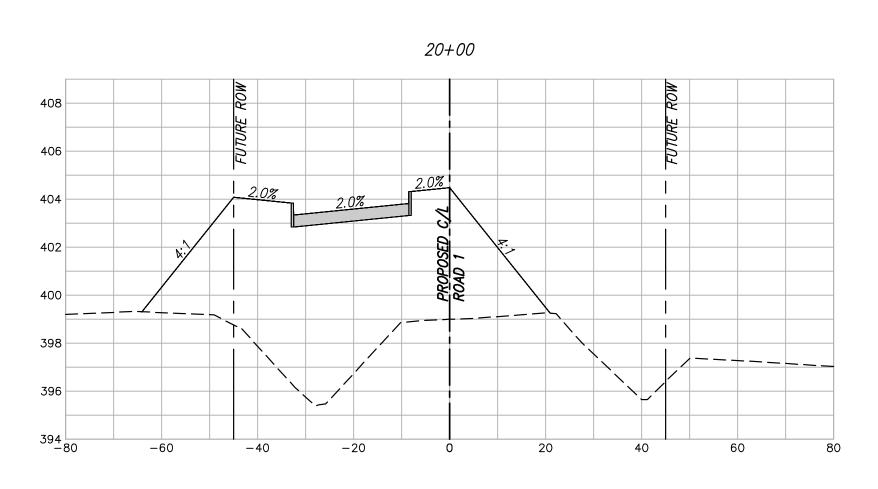


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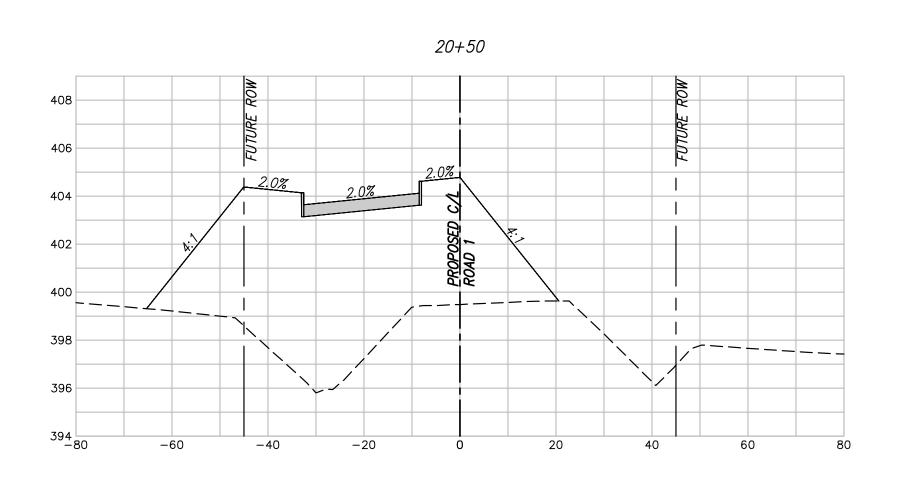


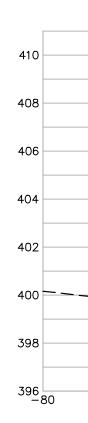
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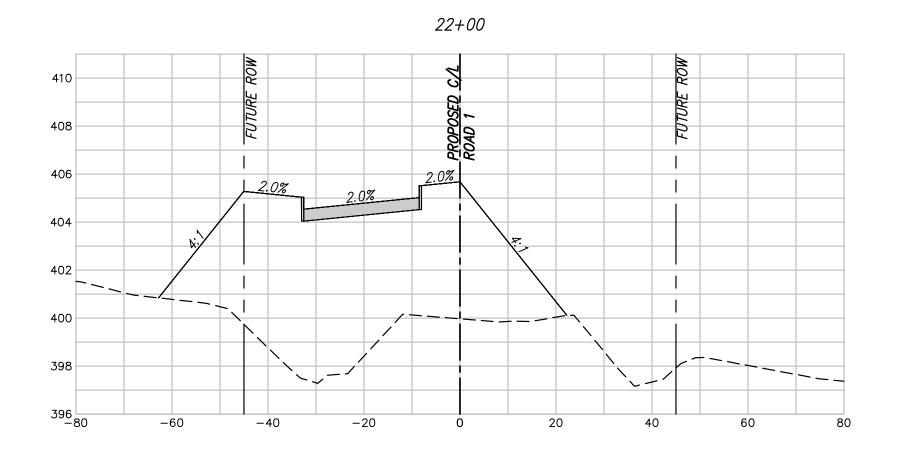


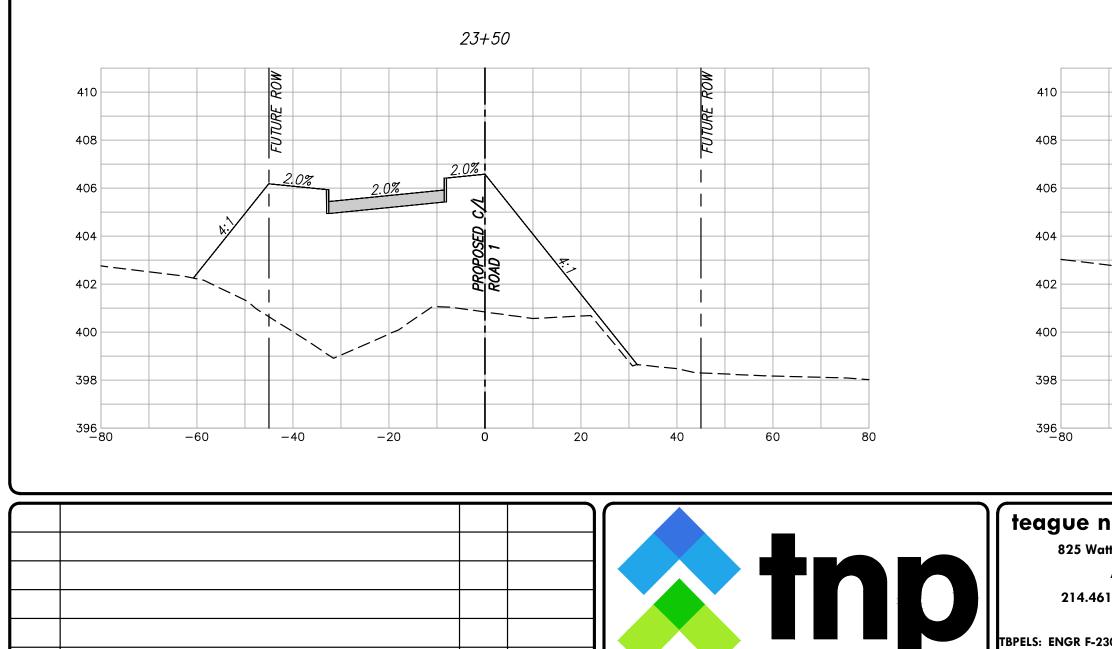
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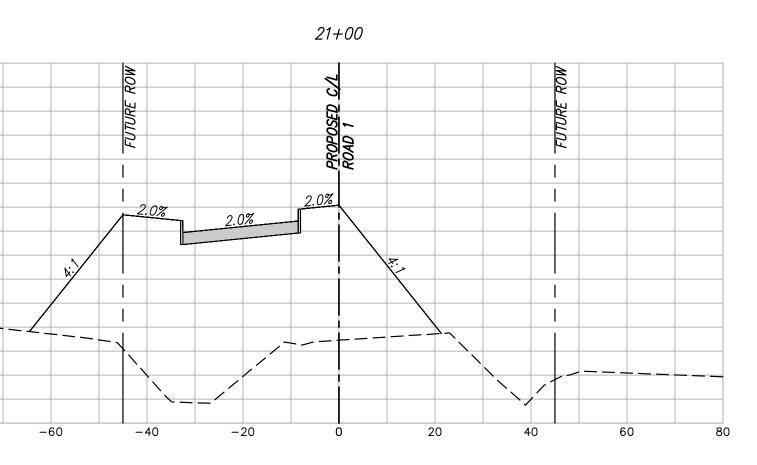


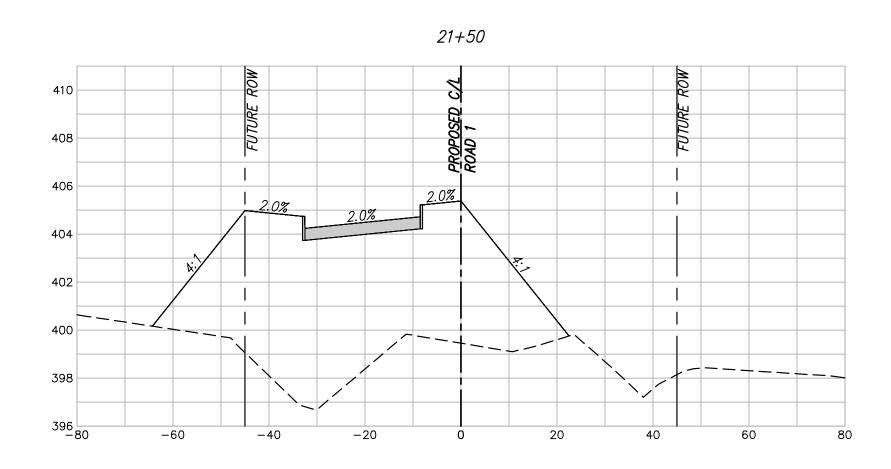


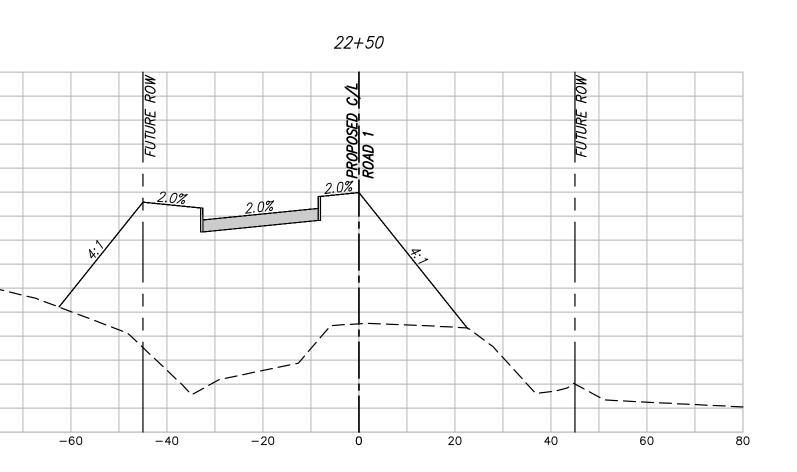
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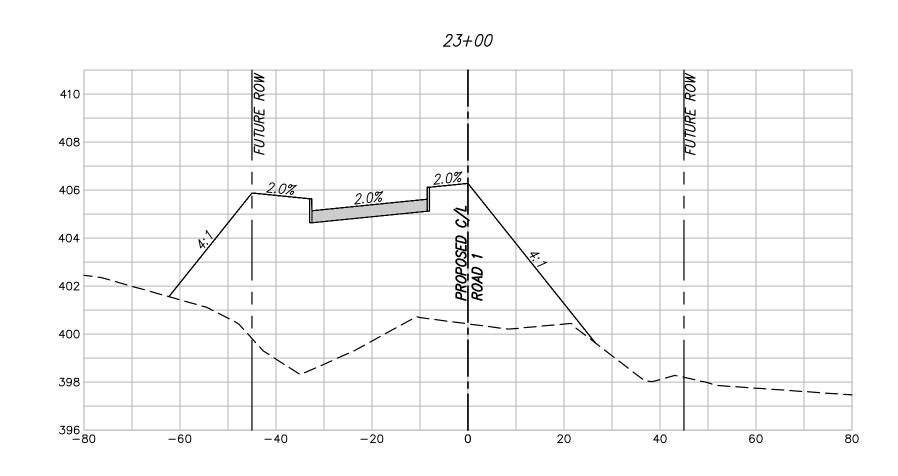
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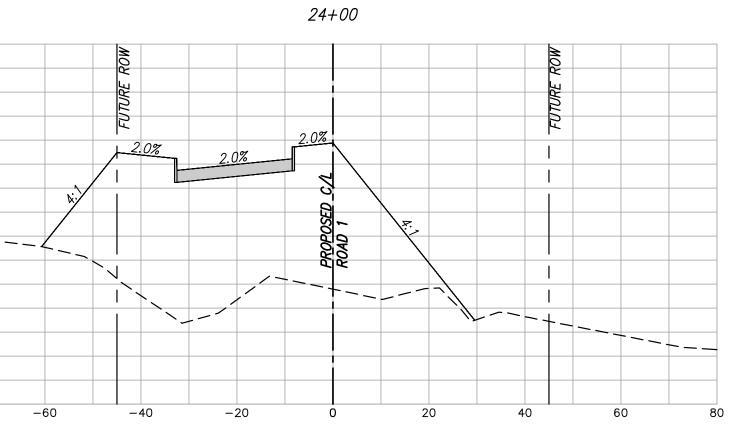
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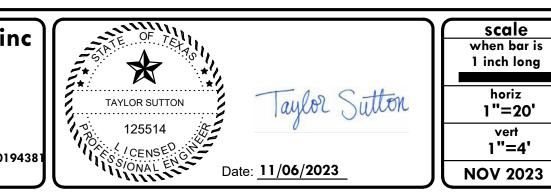








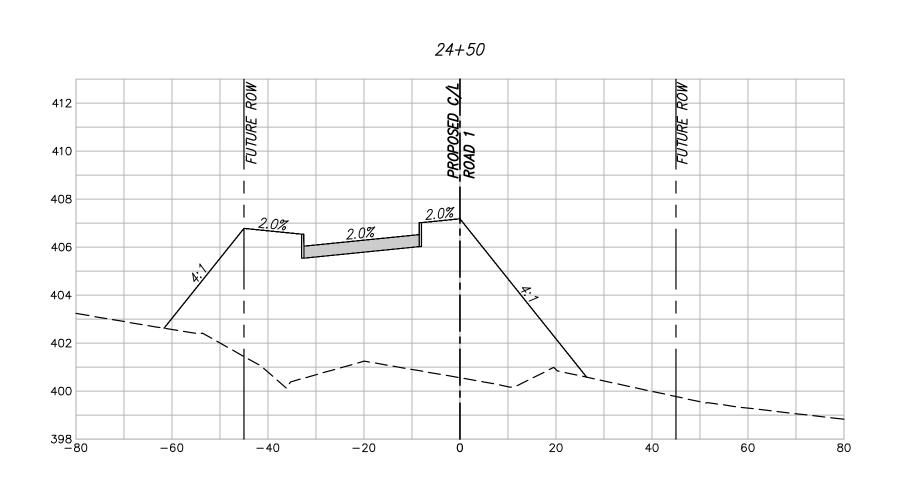
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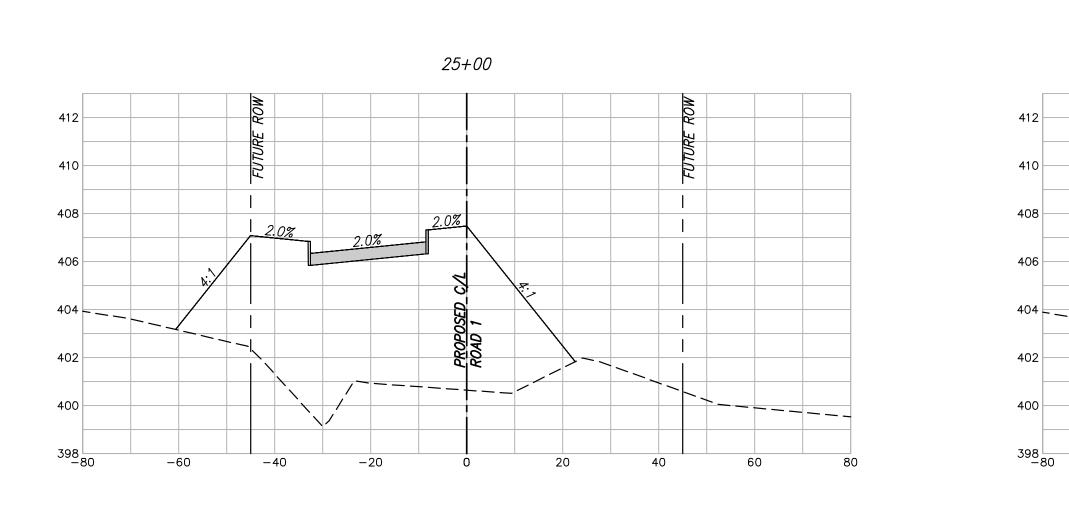
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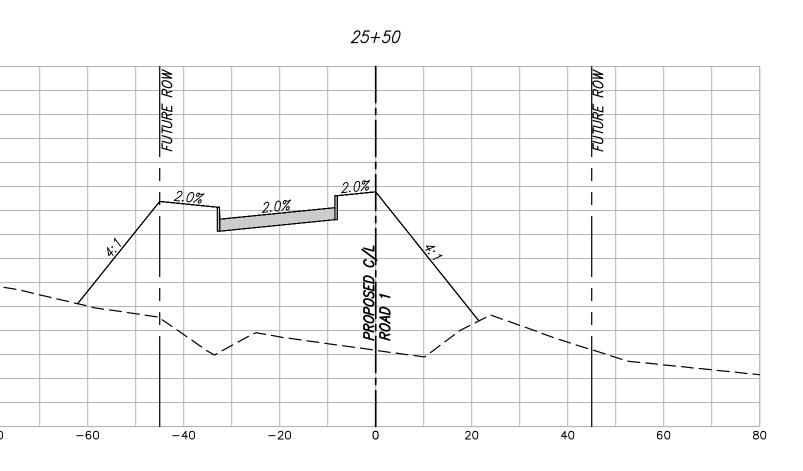
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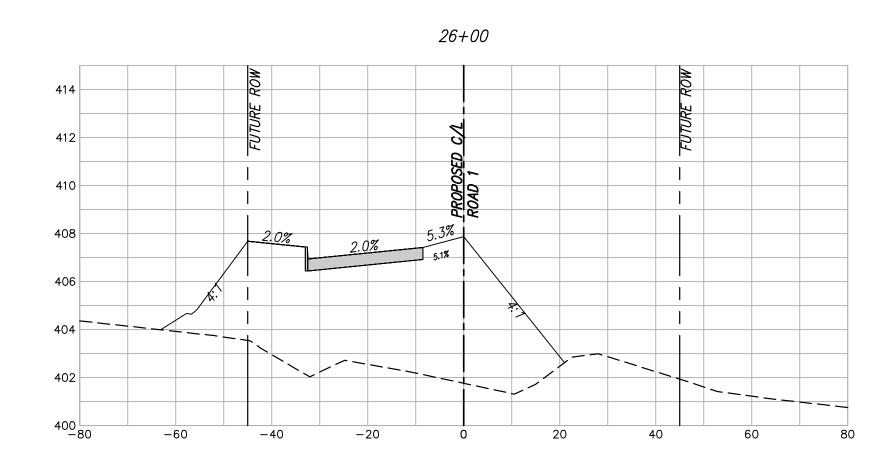






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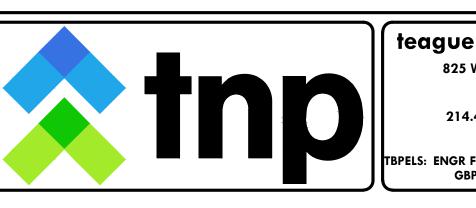


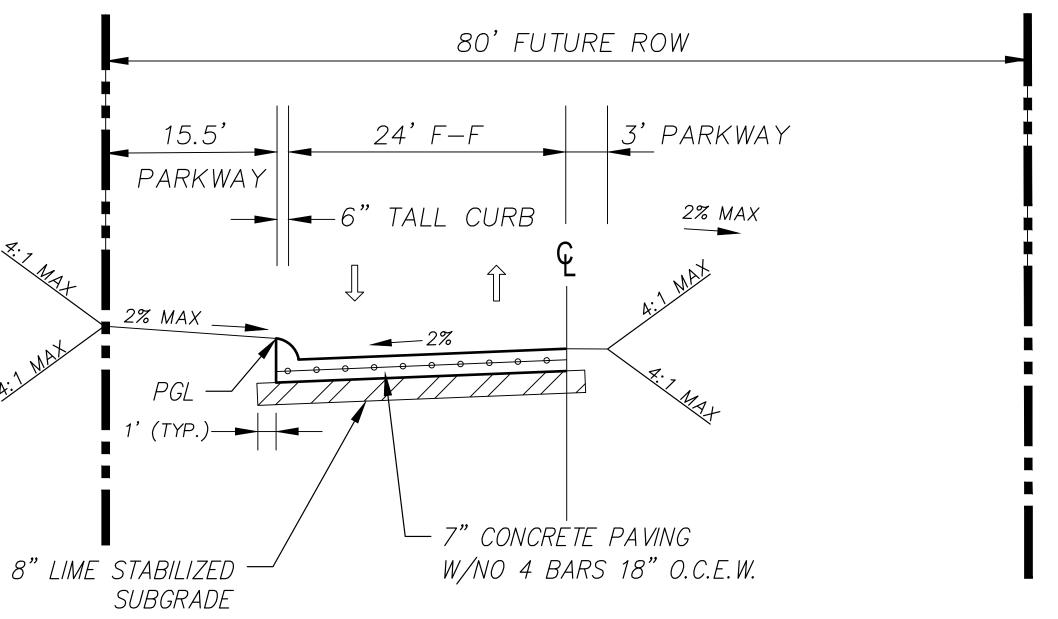
KAUFMAN, TEXAS	tnp project KFM22494
Improvements for	sheet
US 175 - SH 34 CONNECTOR ROADS	_   16
CROSS SECTION ROAD 1	
STA. 25+00 TO 26+50	) of 38

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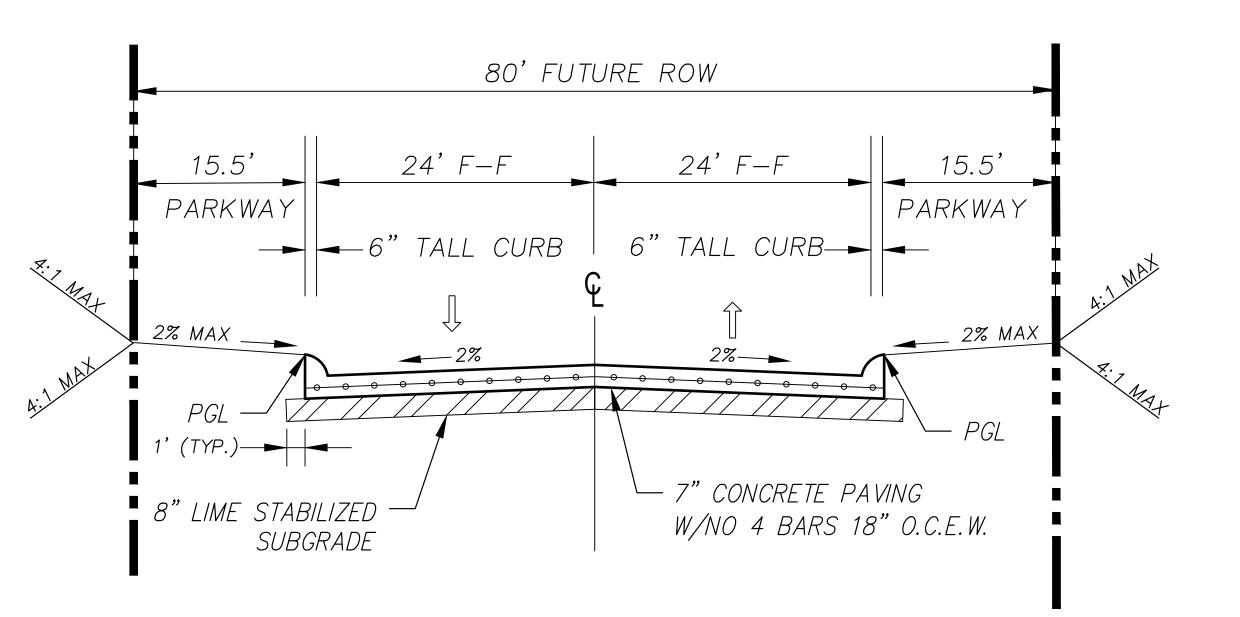


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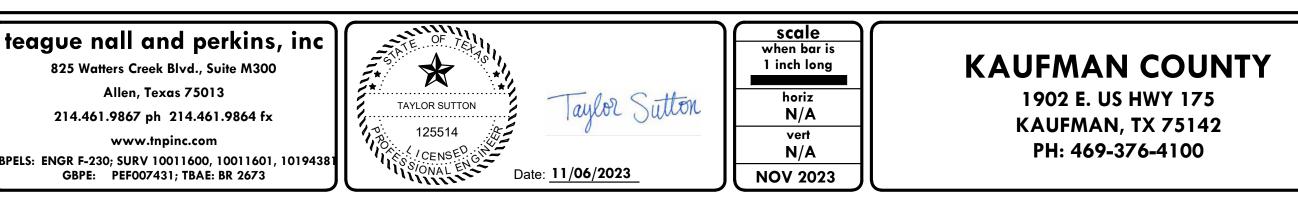


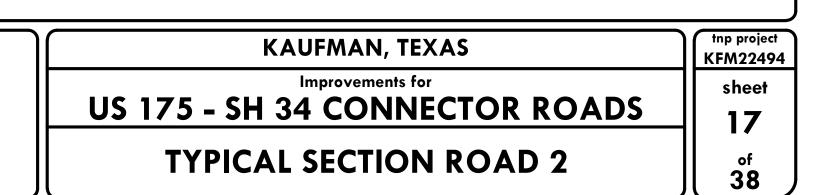


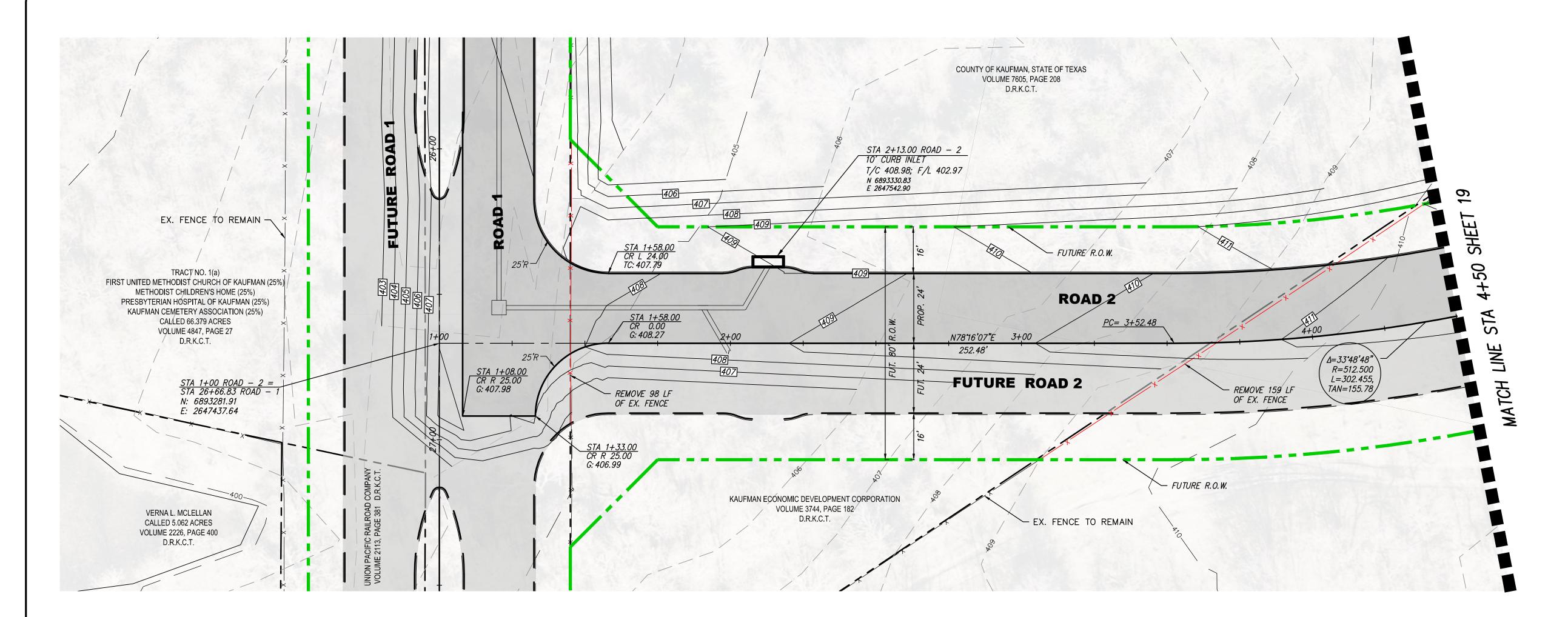
# **ROAD 2 PROPOSED TYPICAL SECTION**

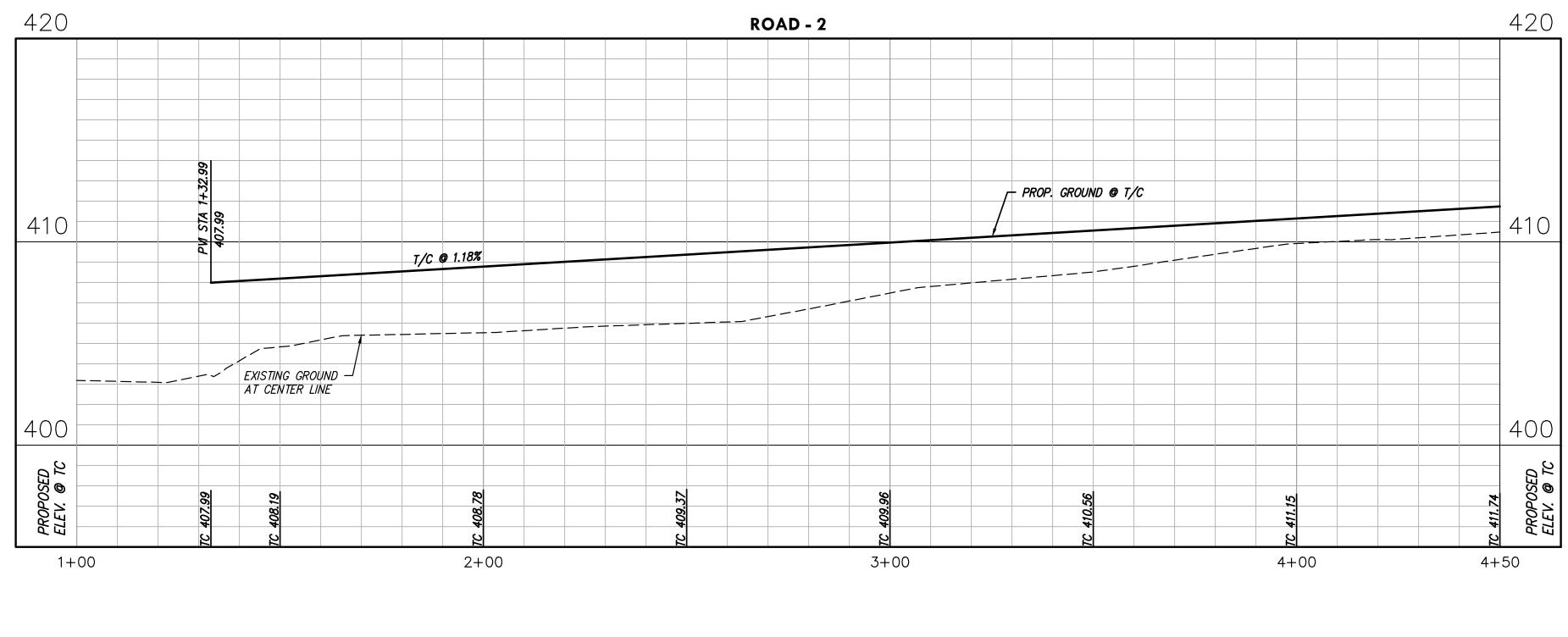


# **ROAD 2 FUTURE TYPICAL SECTION**

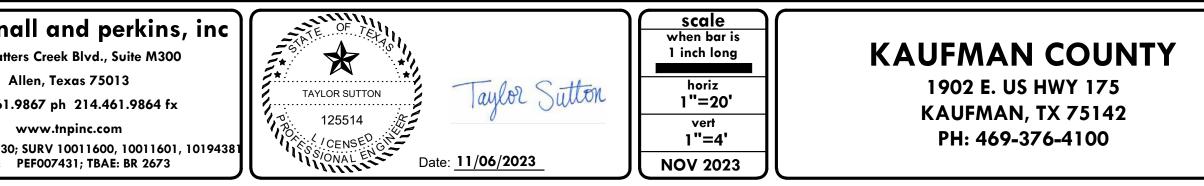


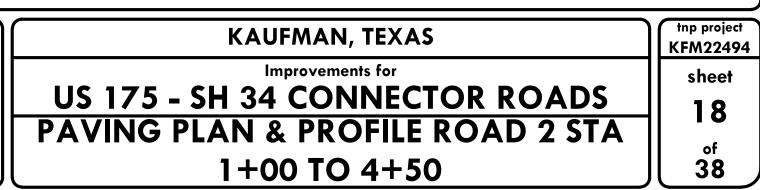






				e <b>ague n</b> 825 Wat 214.46
no.	revision	by	date	ELS: ENGR F-23 GBPE:





PROPOSED CONCRETE PAVEMENT FUTURE ROADWAY TO BE CONSTRUCTED AS SEPARATE PROJECT ----- FUTURE RIGHT-OF-WAY ----- FUTURE CURB - X - EXISTING FENCE - x ------ FENCE TO BE REMOVED - ITEMS TO BE REMOVED ---- EXISTING EASEMENT ----- EXISTING PROPERTY LINES ----- PROPOSED CENTER LINE ------ FLOODPLAIN - 500 - EXSTING MINOR CONTOUR - - 500 - - EXISTING MAJOR CONTOUR 

PROPOSED HEADWALL

tnp

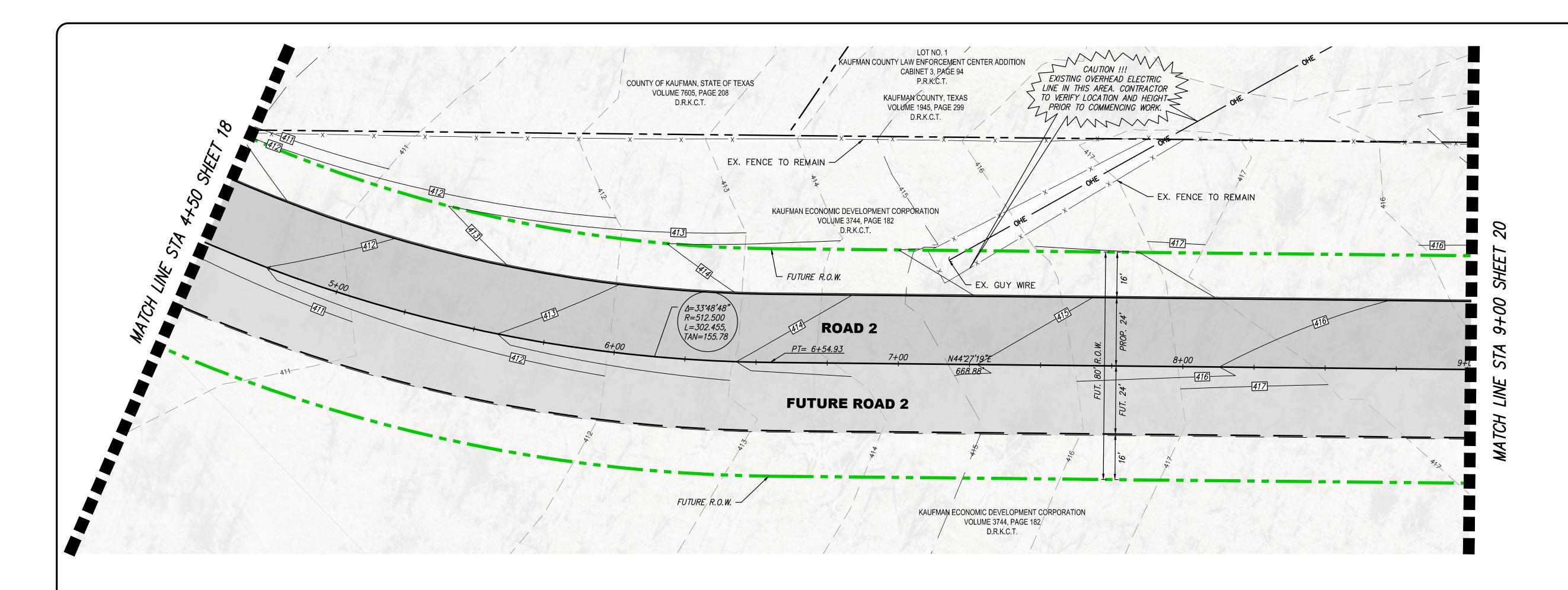
**GRAPHIC SCALE** 

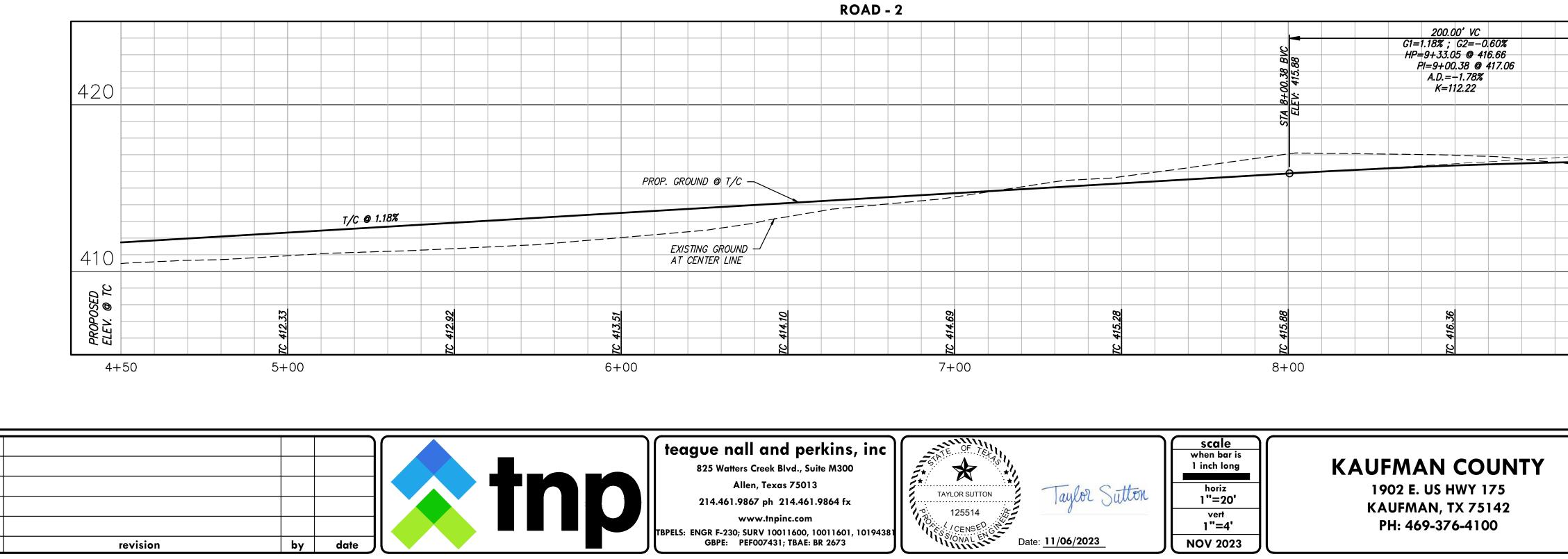
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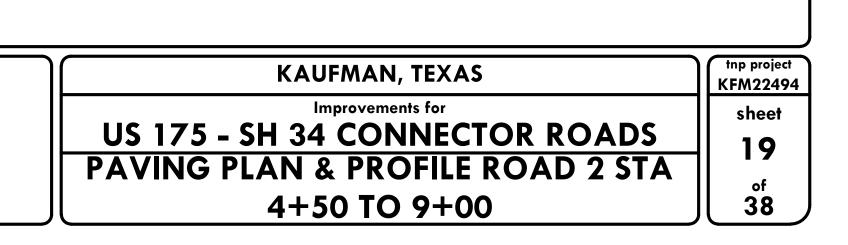
INCLUDED IN THIS PROJECT SCOPE. LEGEND

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. 2. FUTURE ROADWAY IS SHOWN FOR PLANNING PURPOSES ONLY. ONLY PROPOSED ROADWAY IS

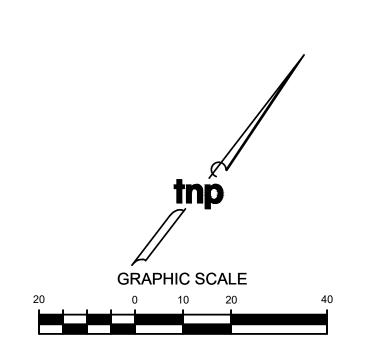
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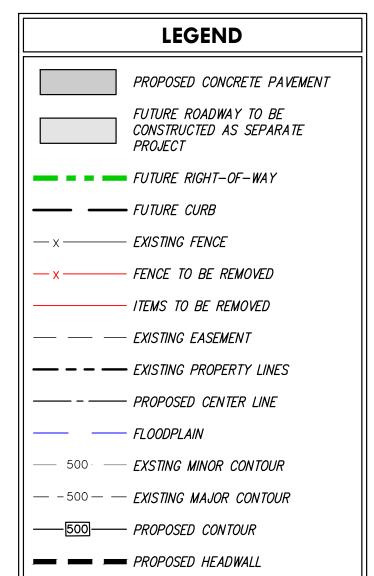




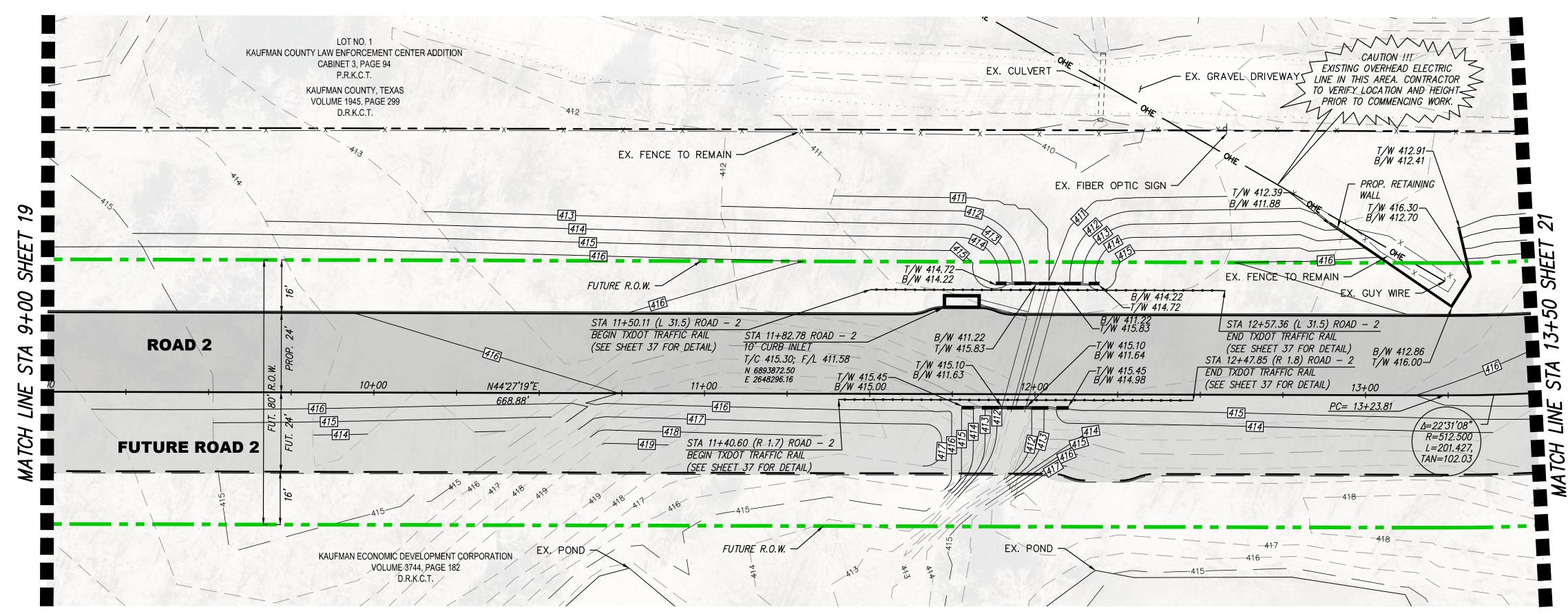


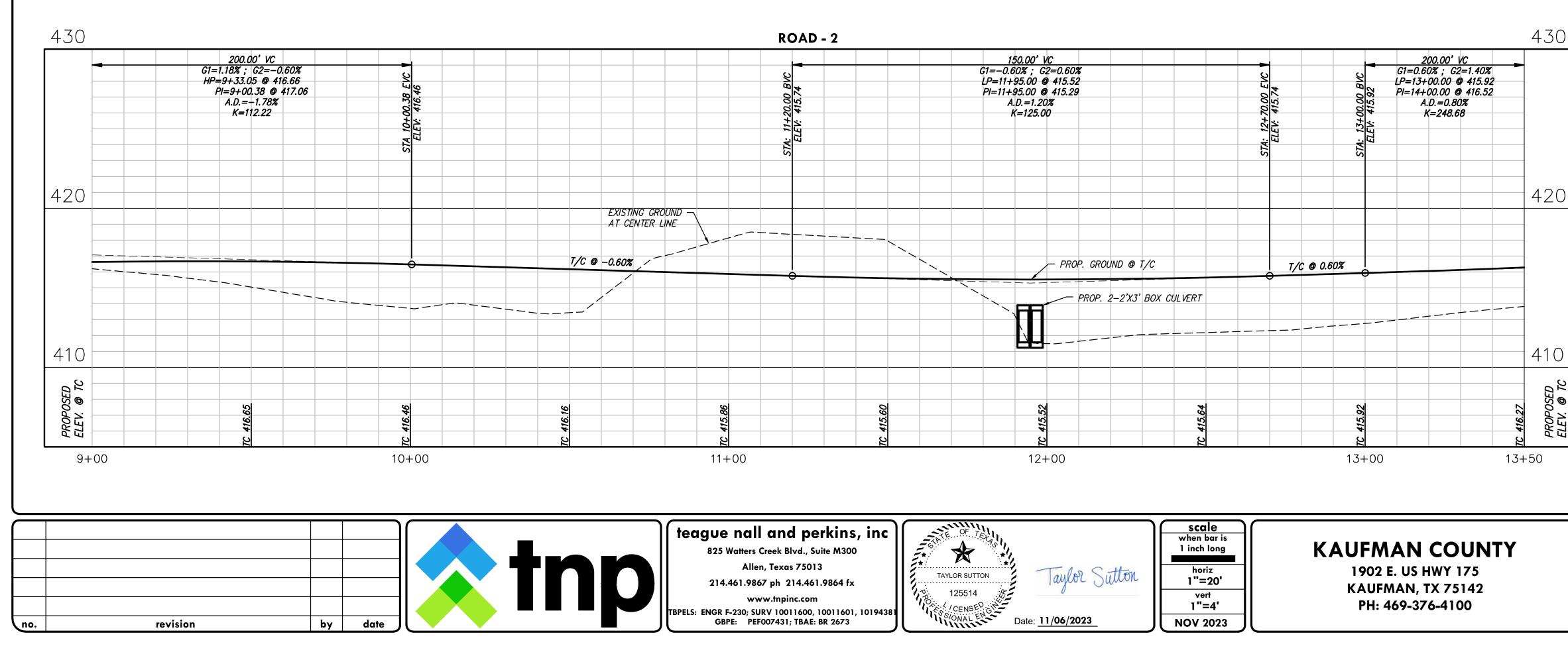


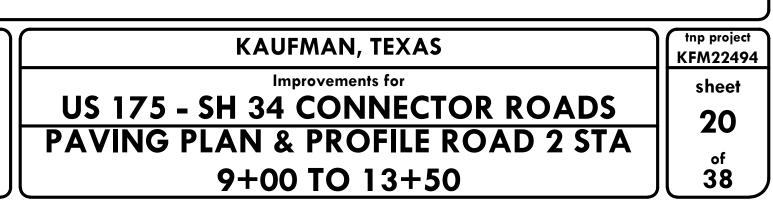


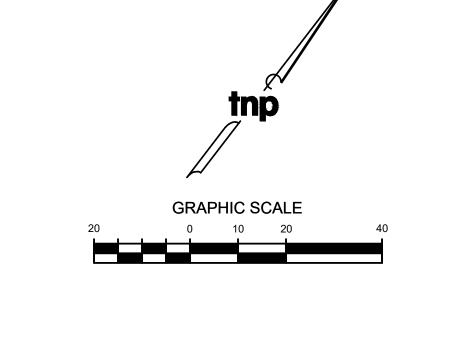


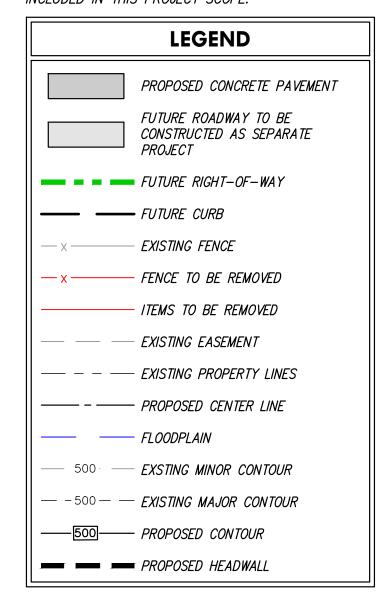
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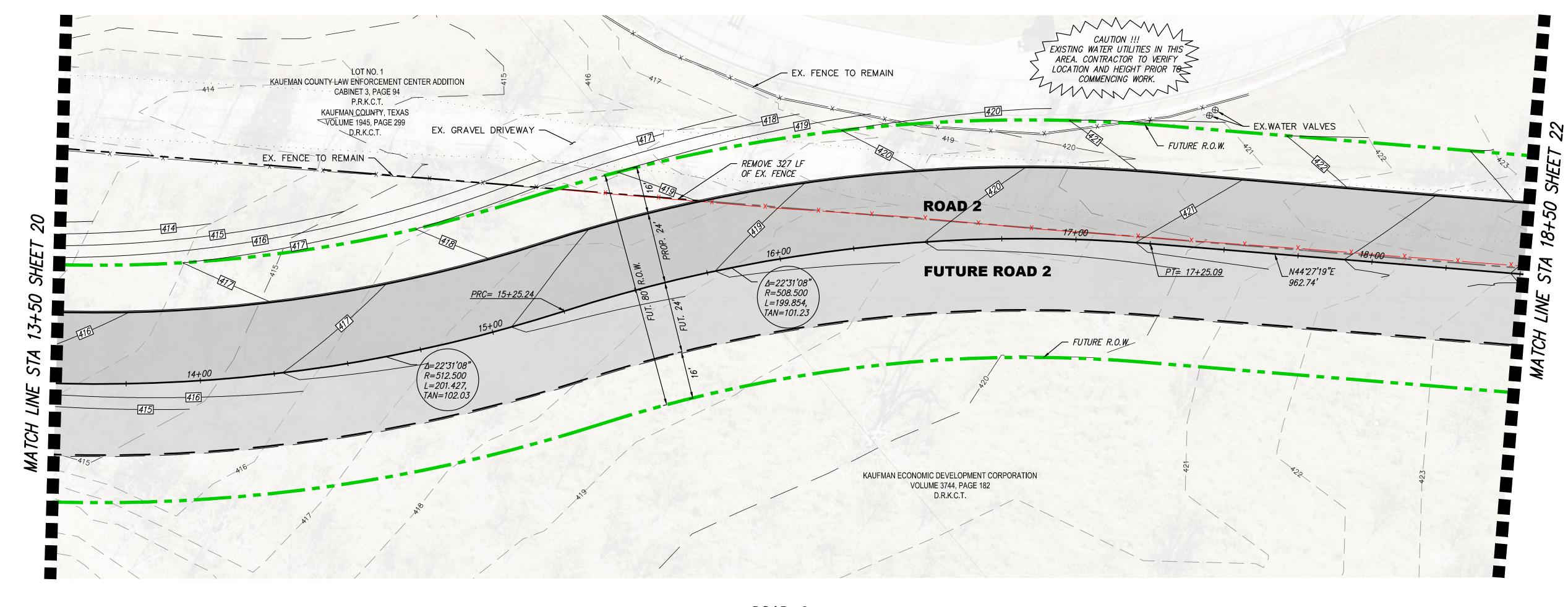


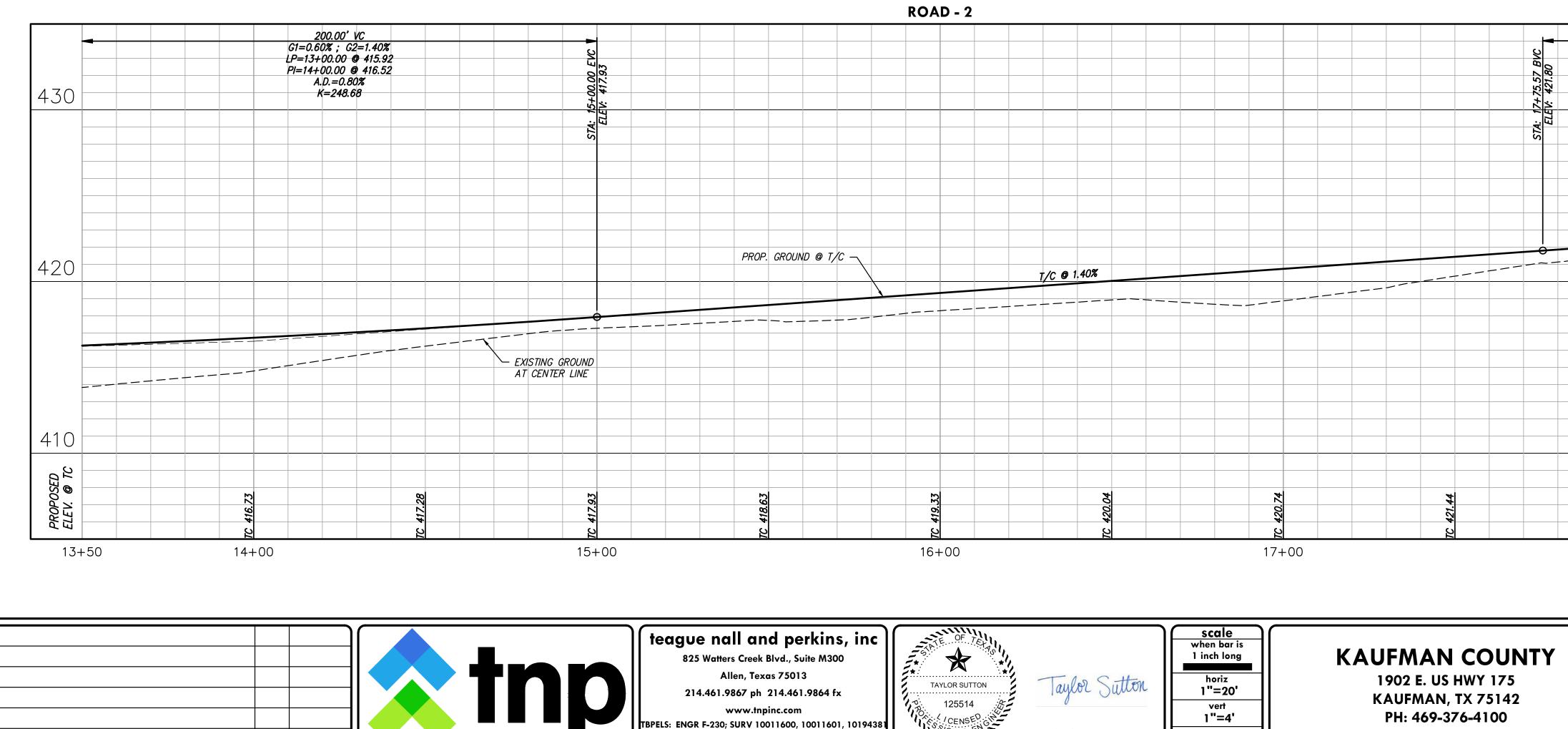


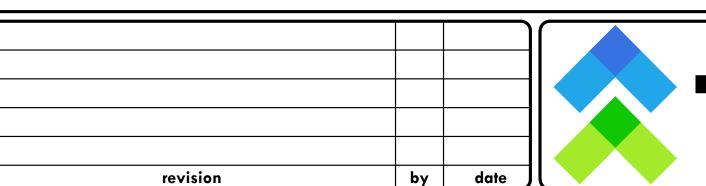
2. FUTURE ROADWAY IS SHOWN FOR PLANNING PURPOSES ONLY. ONLY PROPOSED ROADWAY IS INCLUDED IN THIS PROJECT SCOPE.

NOTES: 1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

E



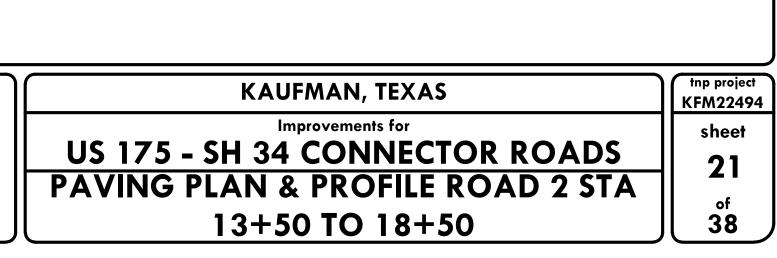


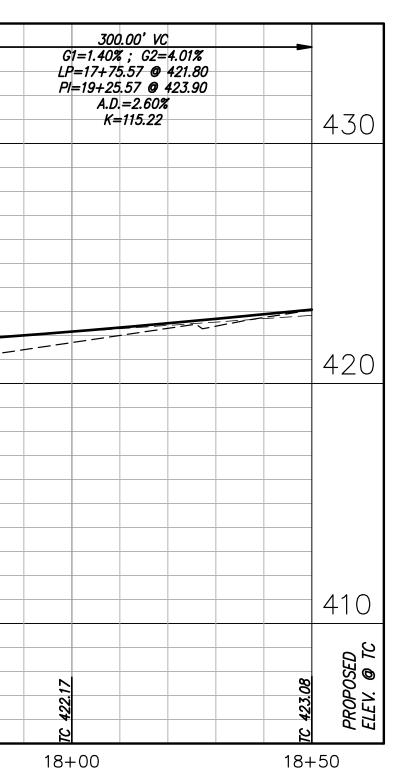


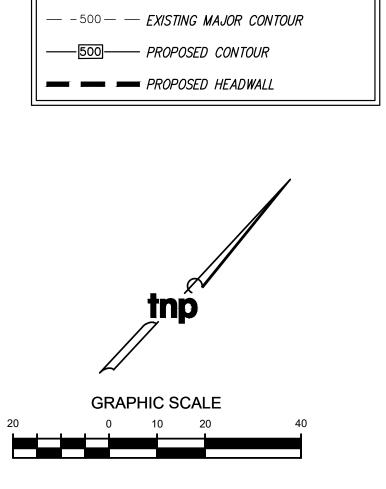
1 inch long 825 Watters Creek Blvd., Suite M300 Allen, Texas 75013 1902 E. US HWY 175 horiz Taylor Sutton TAYLOR SUTTON 1"=20' 214.461.9867 ph 214.461.9864 fx **KAUFMAN, TX 75142** 125514 POR CO vert www.tnpinc.com PH: 469-376-4100 1"=4' Date: 11/06/2023 GBPE: PEF007431; TBAE: BR 2673 NOV 2023

CENSED GIVE SPELS: ENGR F-230; SURV 10011600, 10011601, 1019438

# **KAUFMAN COUNTY**







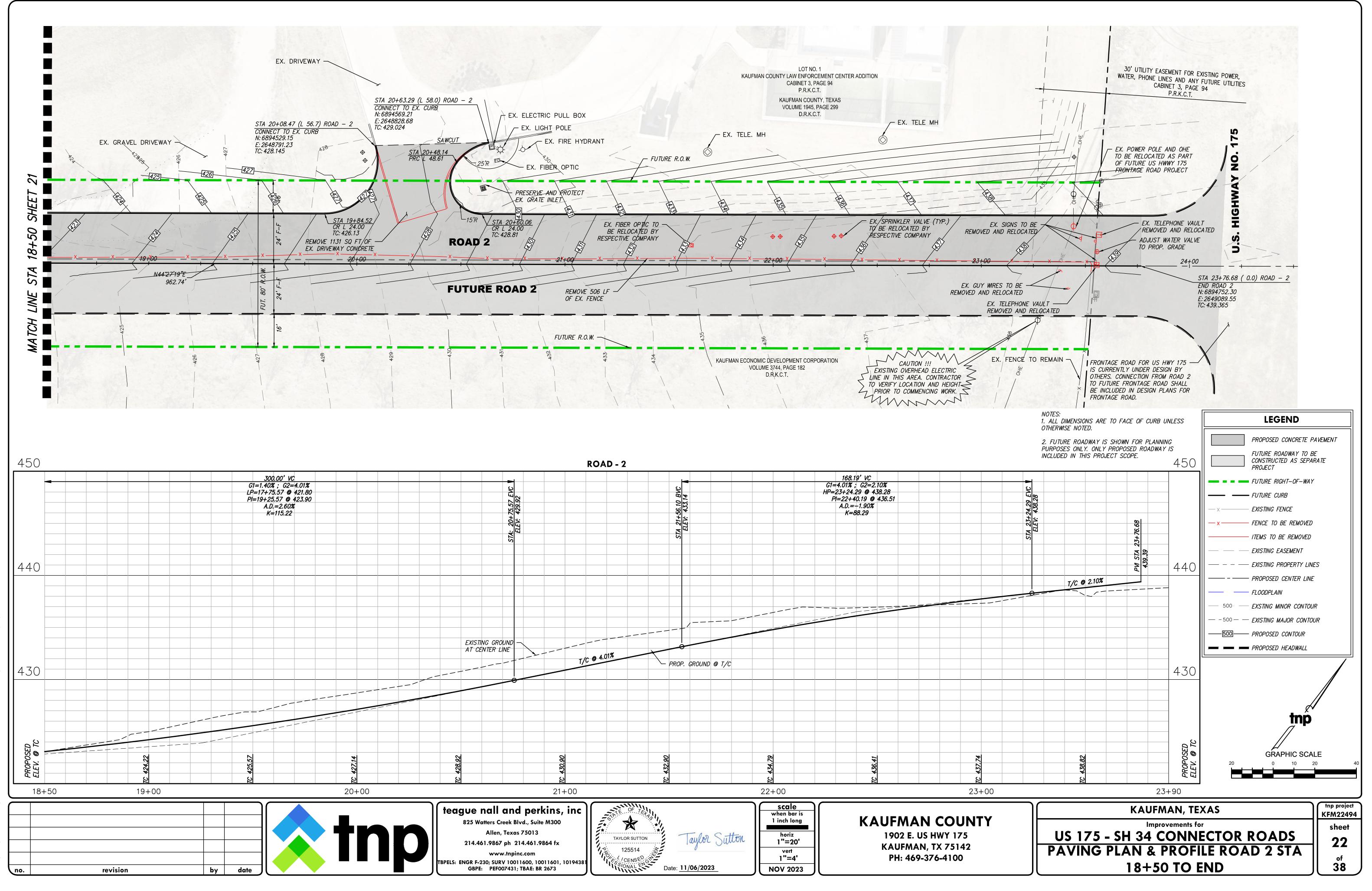
	LEGEND
	PROPOSED CONCRETE PAVEMENT
	FUTURE ROADWAY TO BE CONSTRUCTED AS SEPARATE PROJECT
	FUTURE RIGHT-OF-WAY
<u> </u>	• FUTURE CURB
— x —	EXISTING FENCE
— x —	FENCE TO BE REMOVED
- <u></u>	- ITEMS TO BE REMOVED
	EXISTING EASEMENT
	EXISTING PROPERTY LINES
	PROPOSED CENTER LINE
	FLOODPLAIN
500 ·	EXSTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
500	- PROPOSED CONTOUR

2. FUTURE ROADWAY IS SHOWN FOR PLANNING PURPOSES ONLY. ONLY PROPOSED ROADWAY IS INCLUDED IN THIS PROJECT SCOPE.

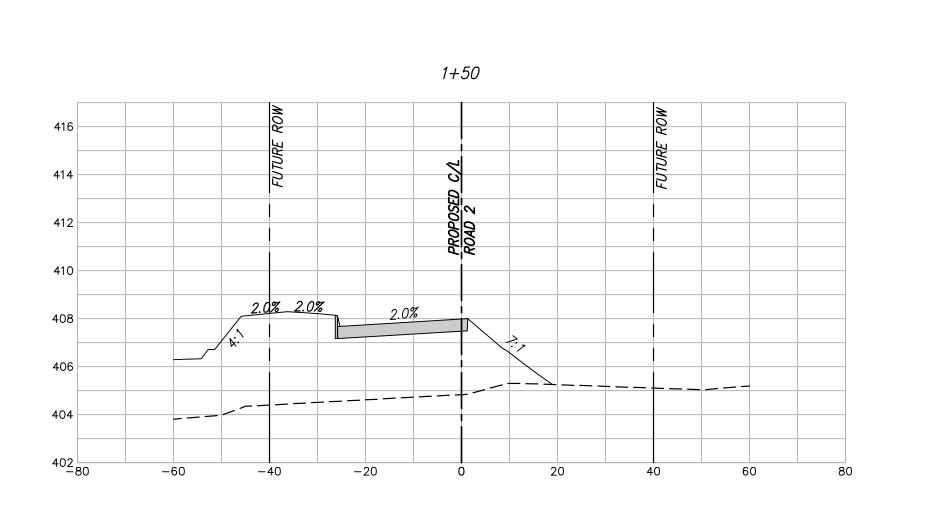
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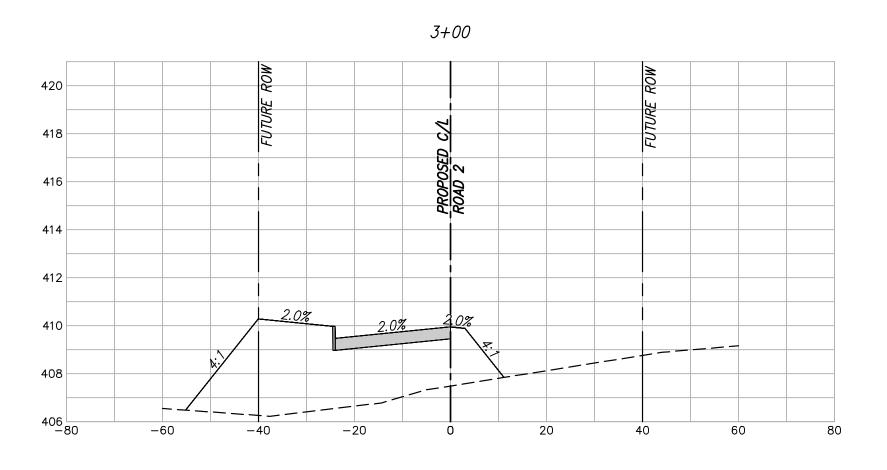
OTHERWISE NOTED.

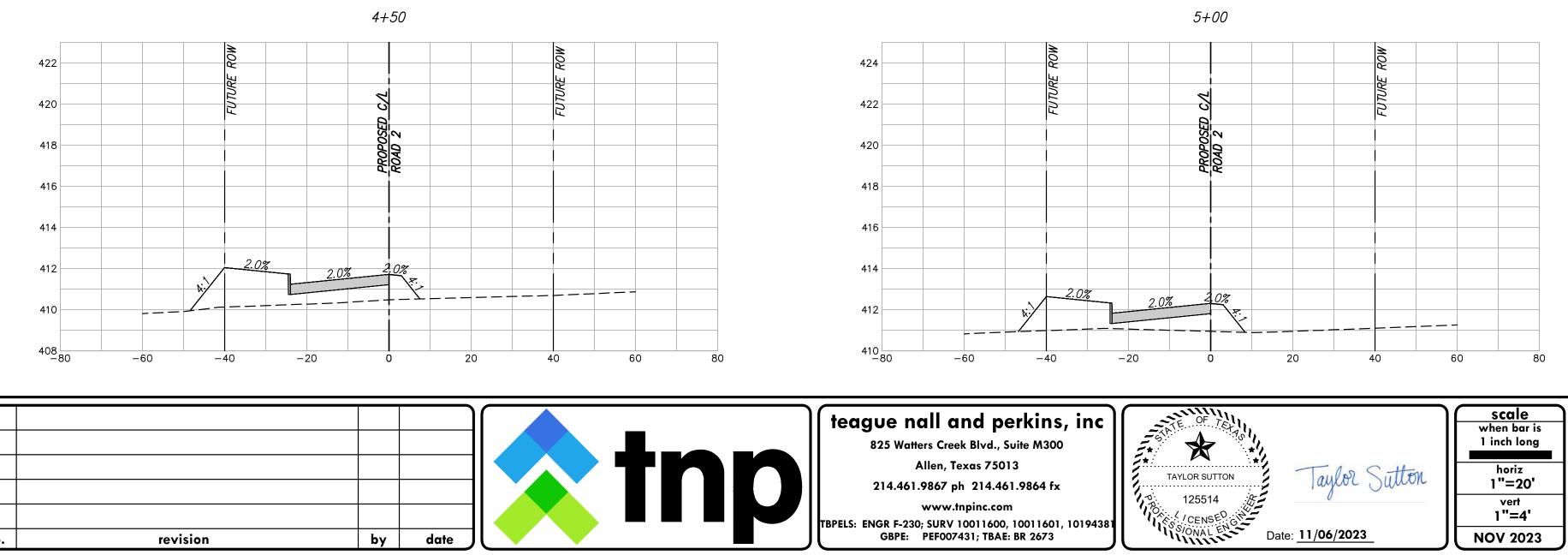
1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS

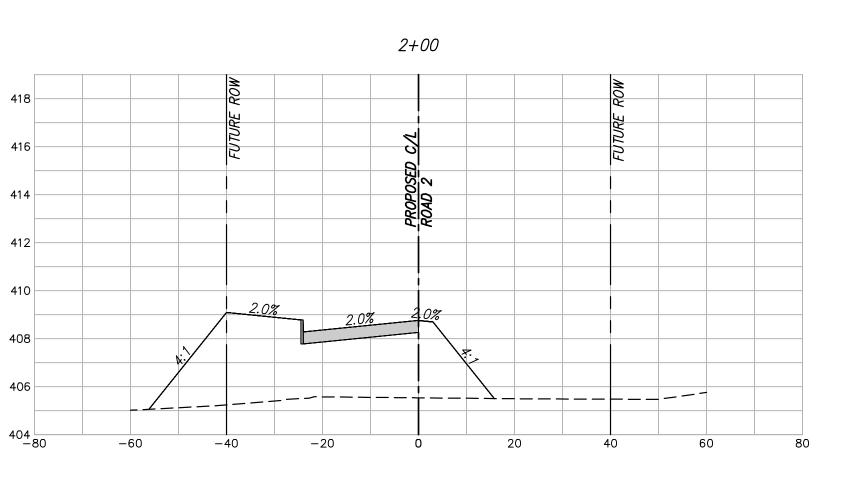


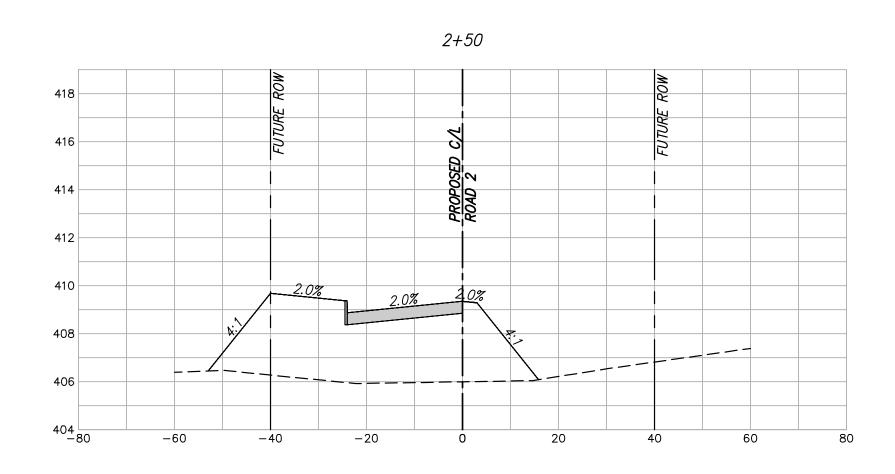
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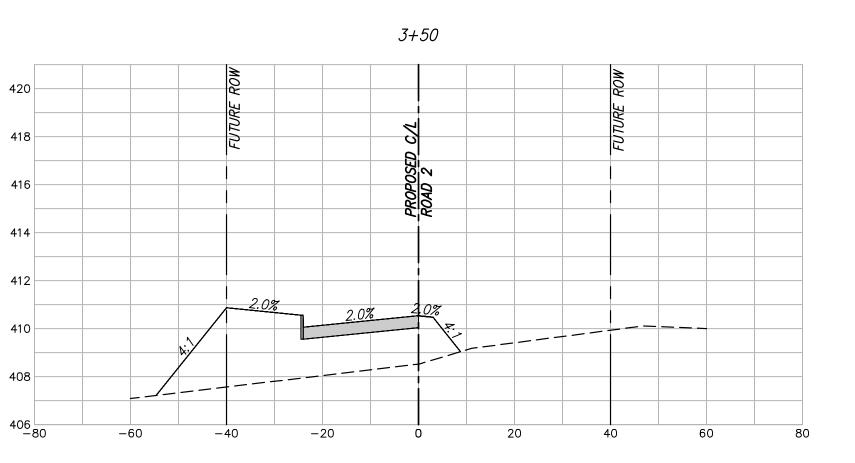


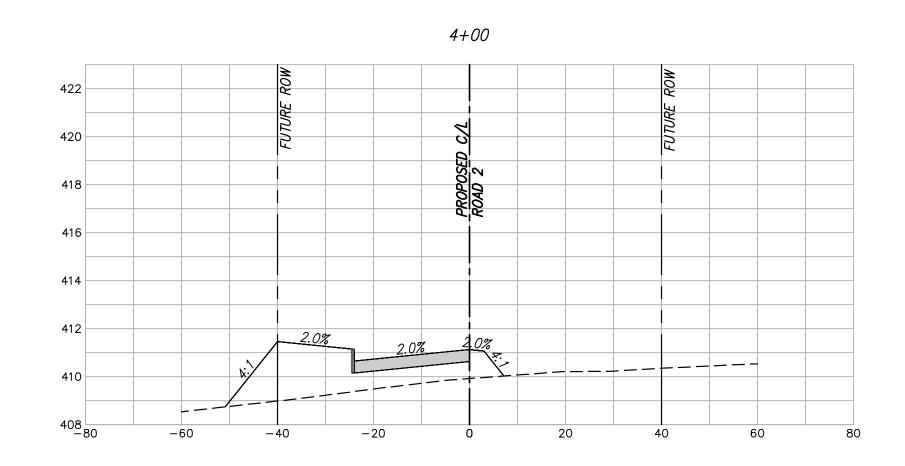


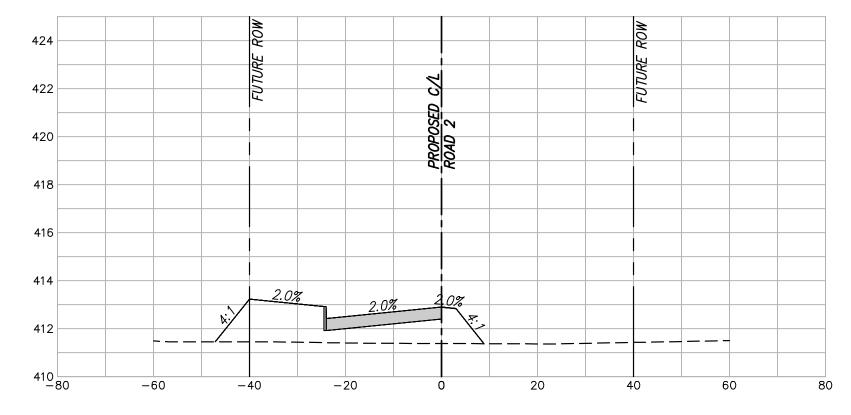






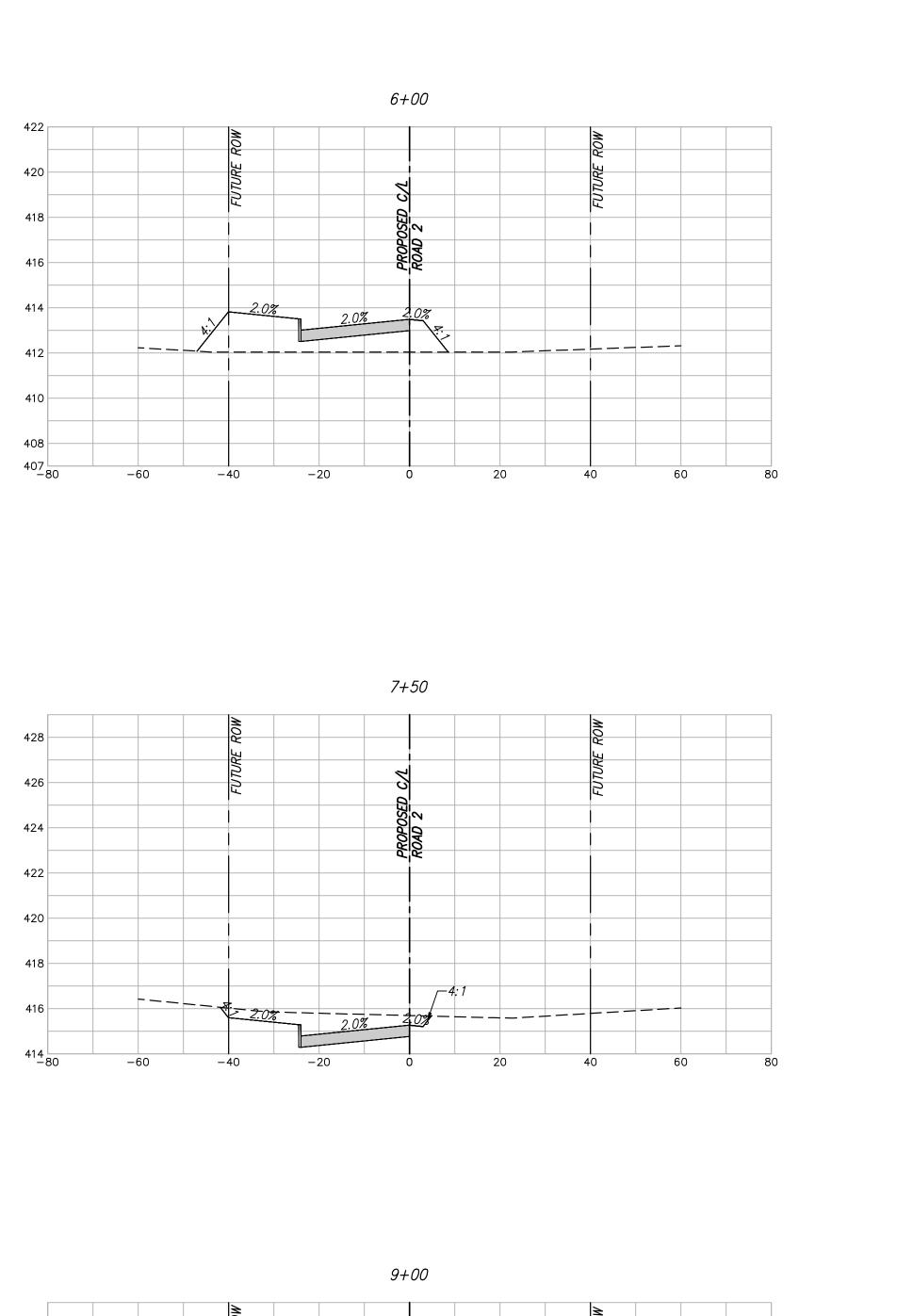


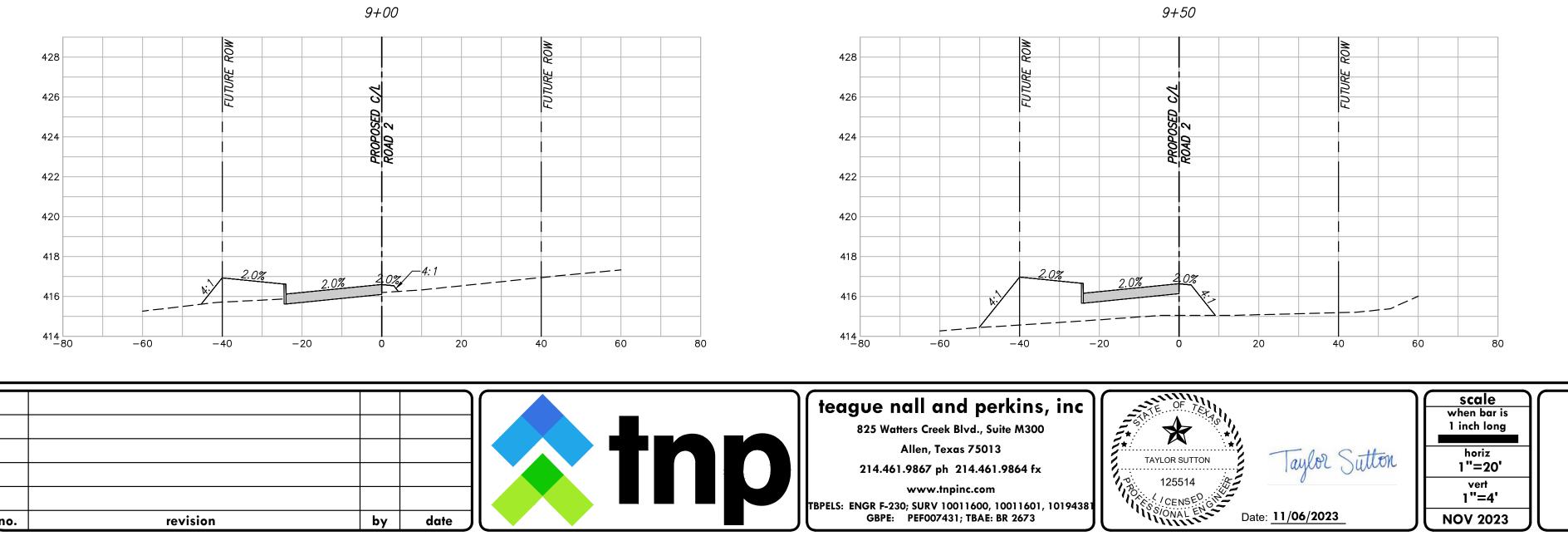






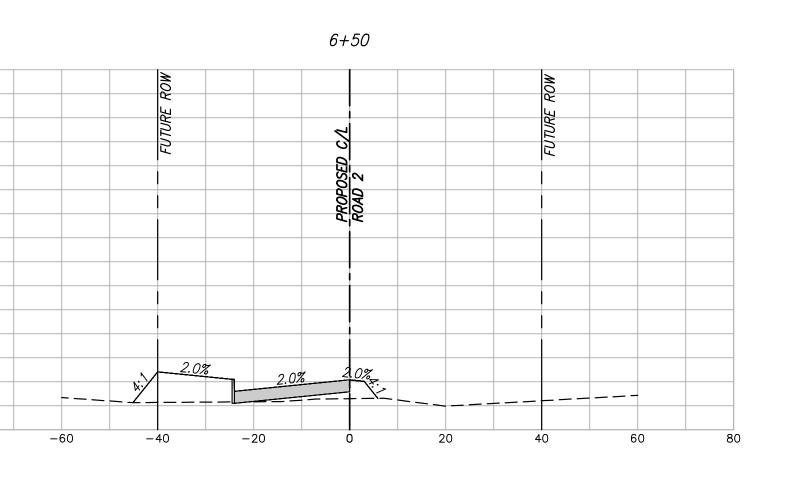


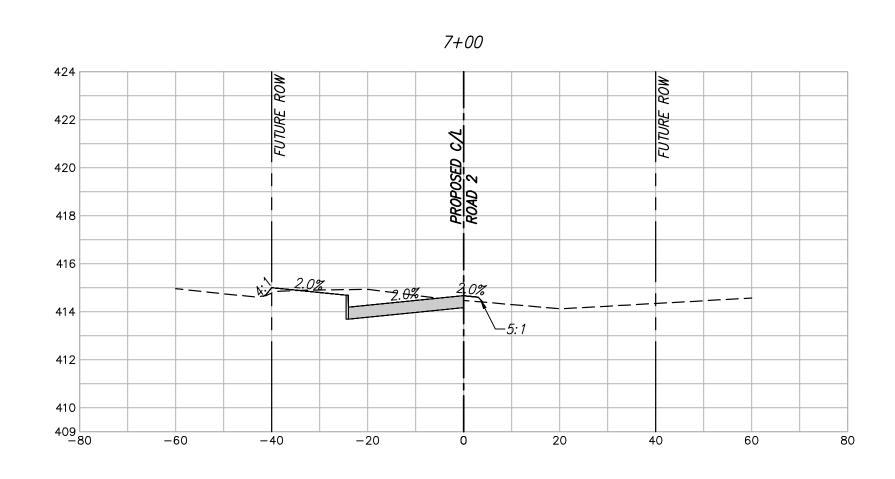


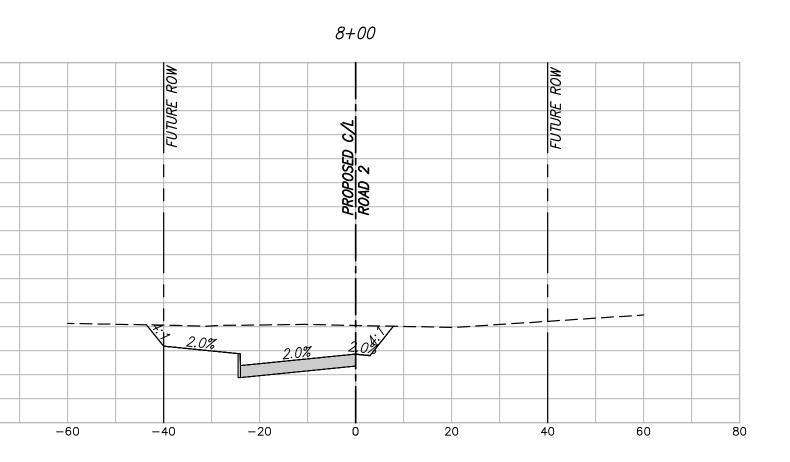


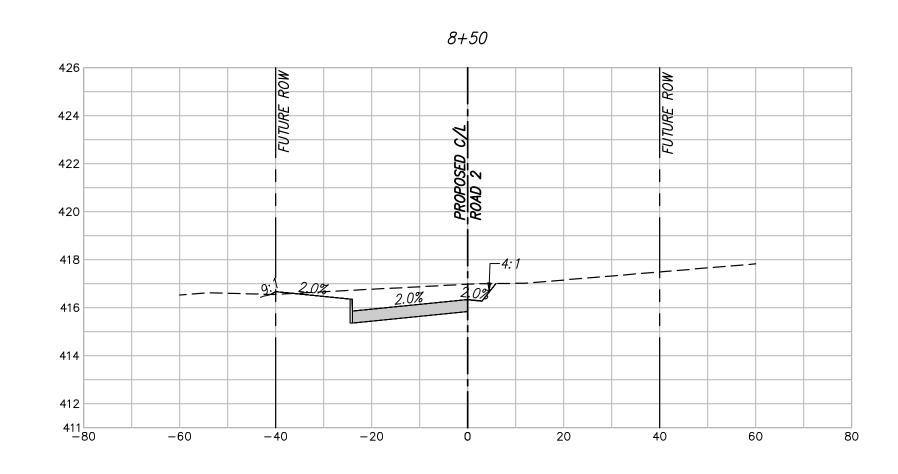
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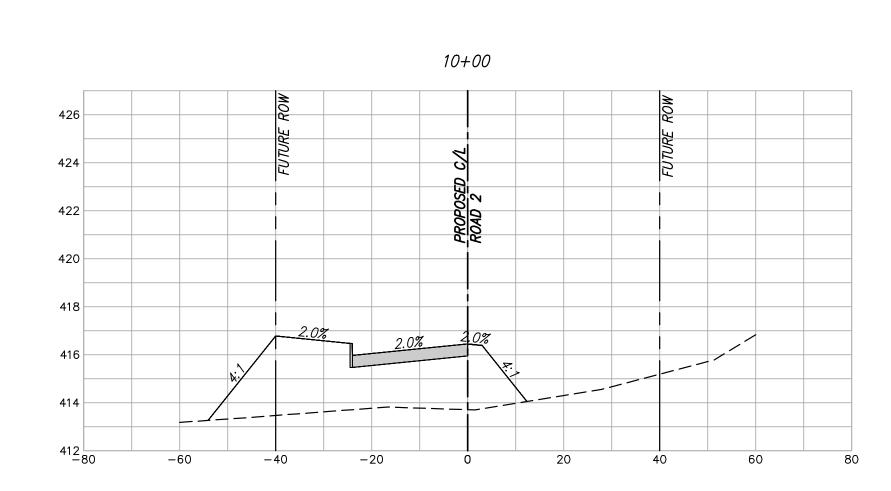
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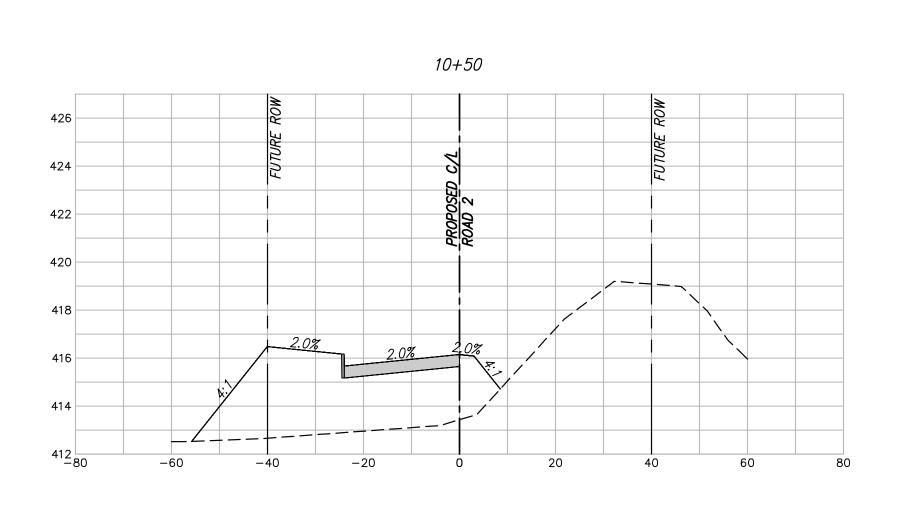


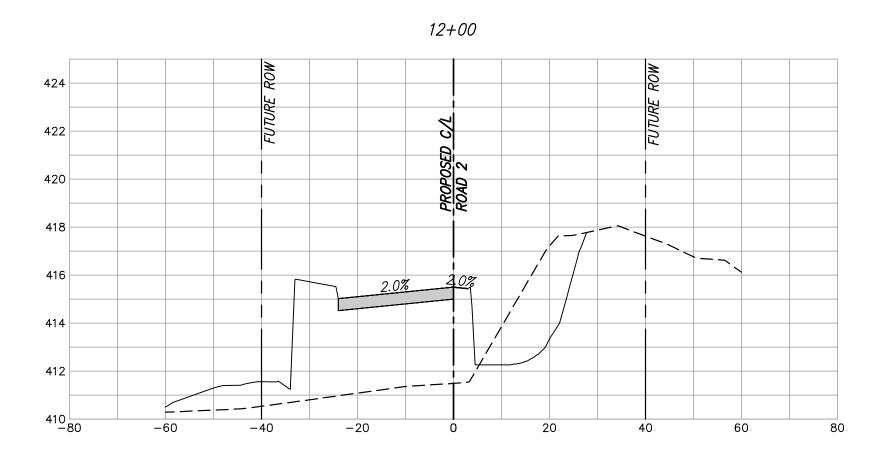


# **KAUFMAN COUNTY** 1902 E. US HWY 175

KAUFMAN, TX 75142 PH: 469-376-4100

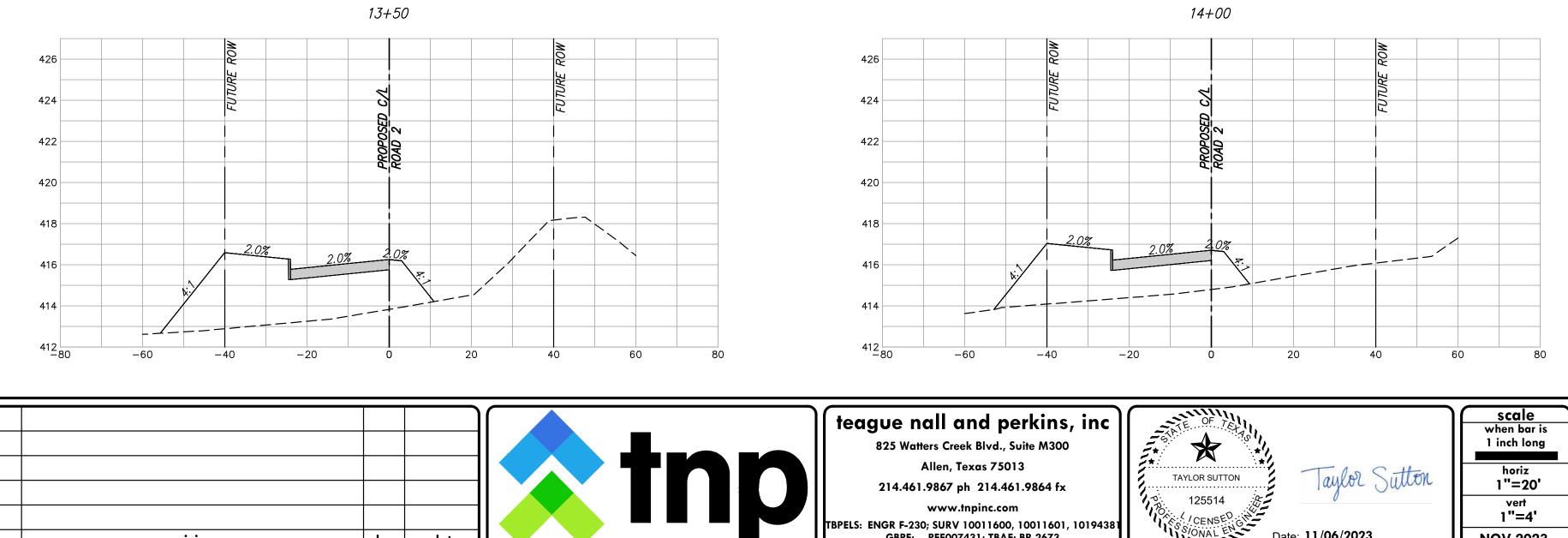






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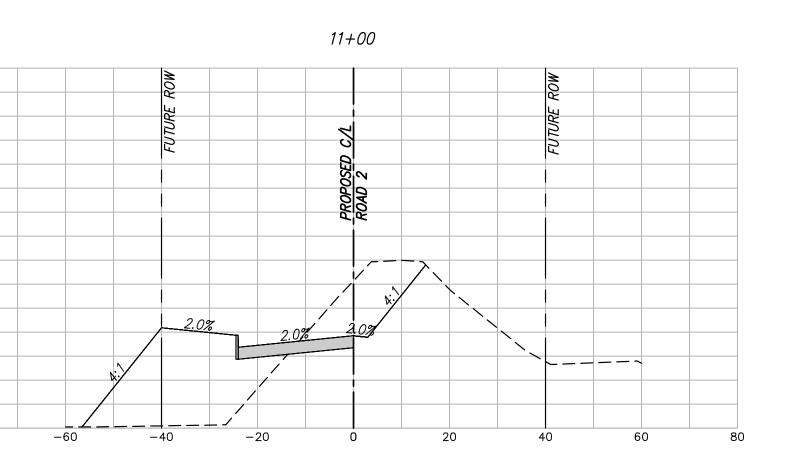
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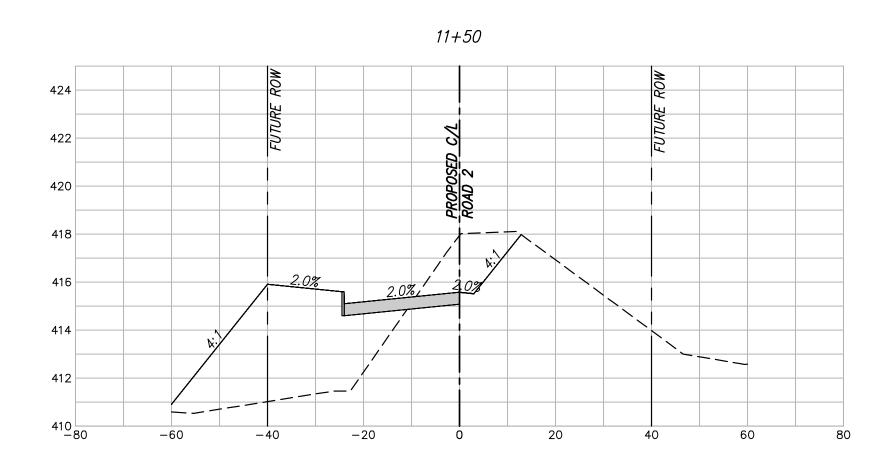
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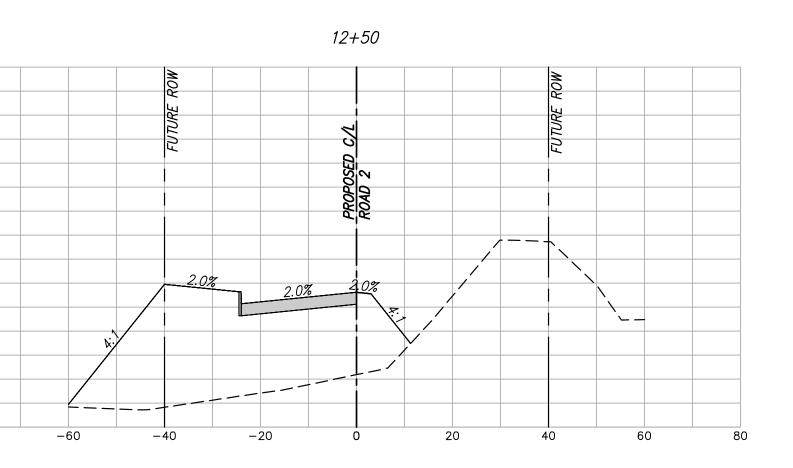
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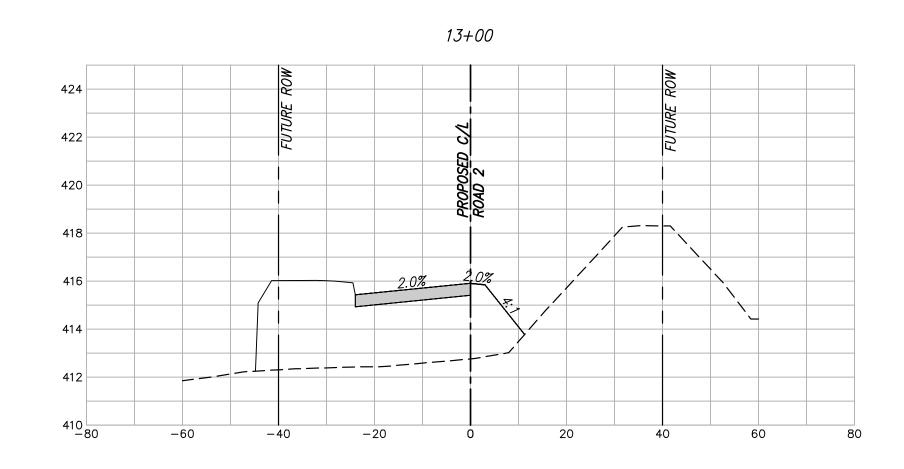
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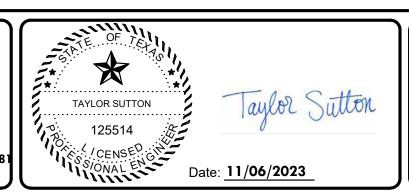
Allen, Texas 75013 214.461.9867 ph 214.461.9864 fx www.tnpinc.com BPELS: ENGR F-230; SURV 10011600, 10011601, 10194381 GBPE: PEF007431; TBAE: BR 2673







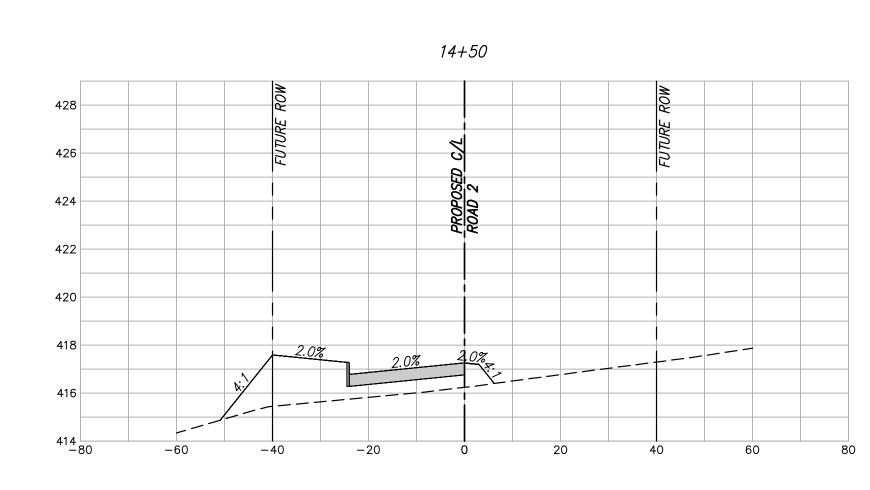




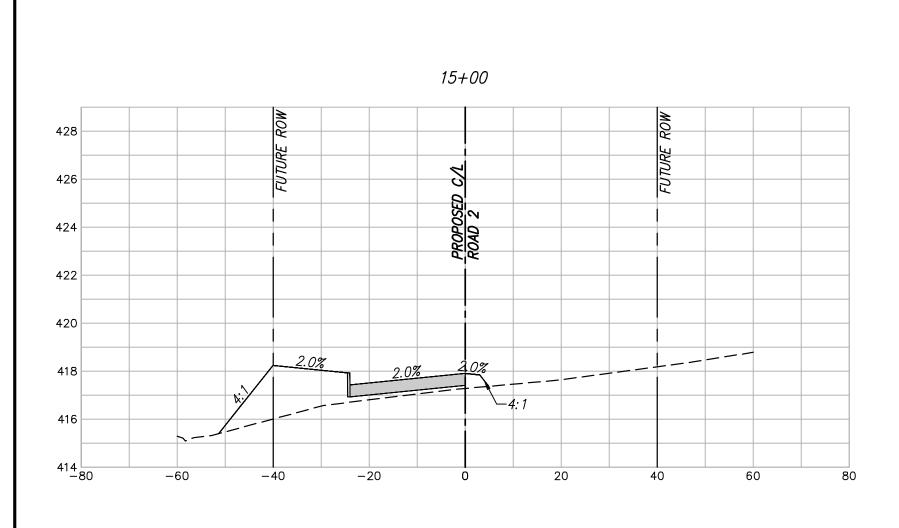
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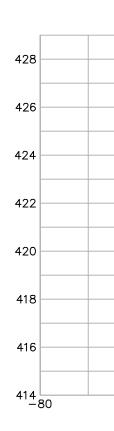
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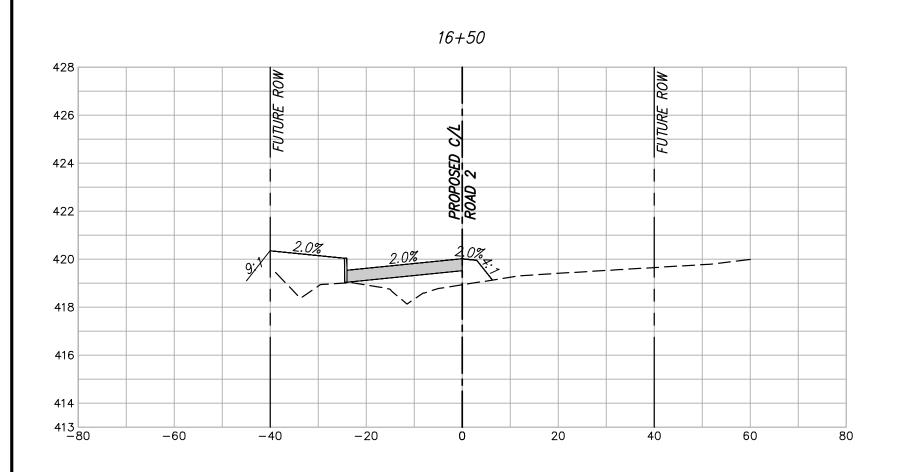
NOV 2023

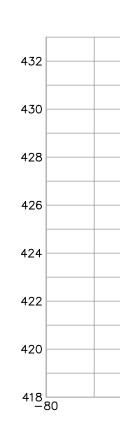


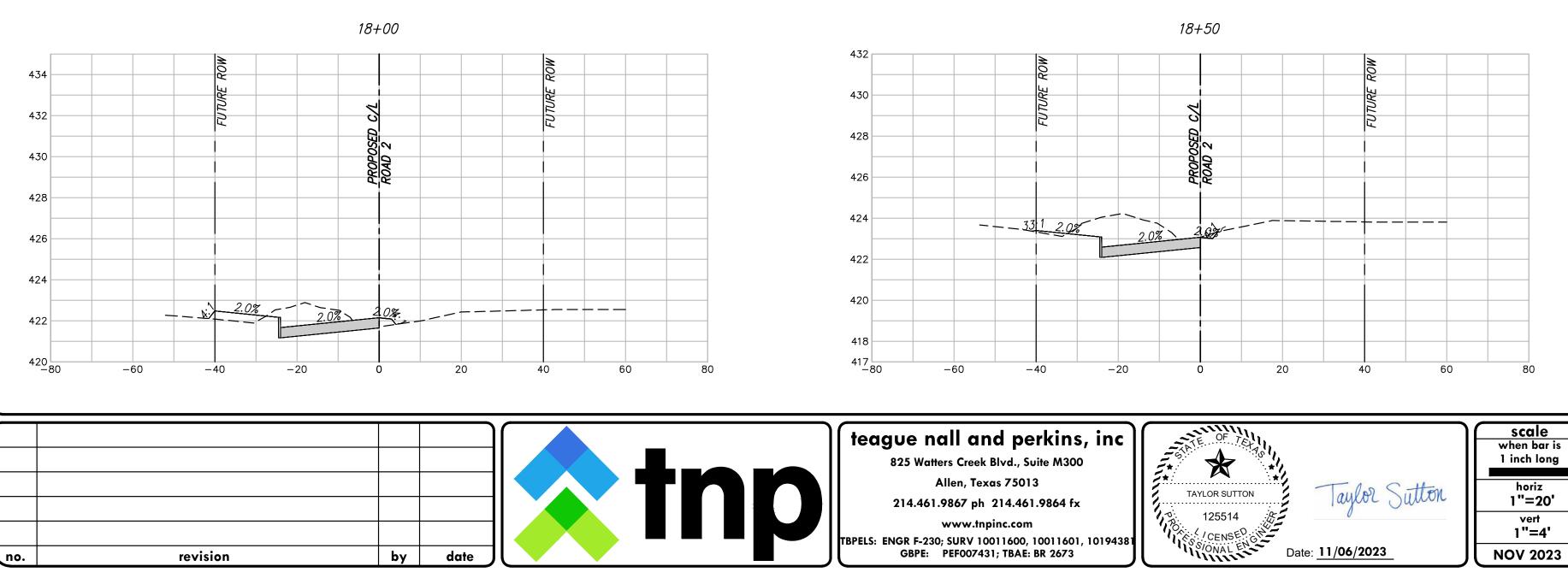


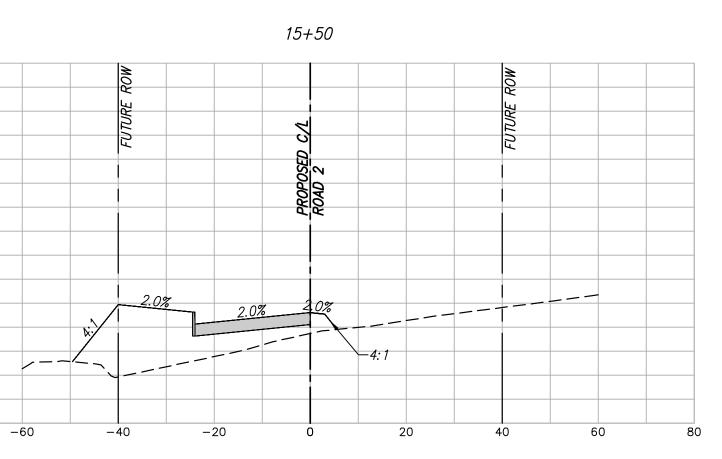


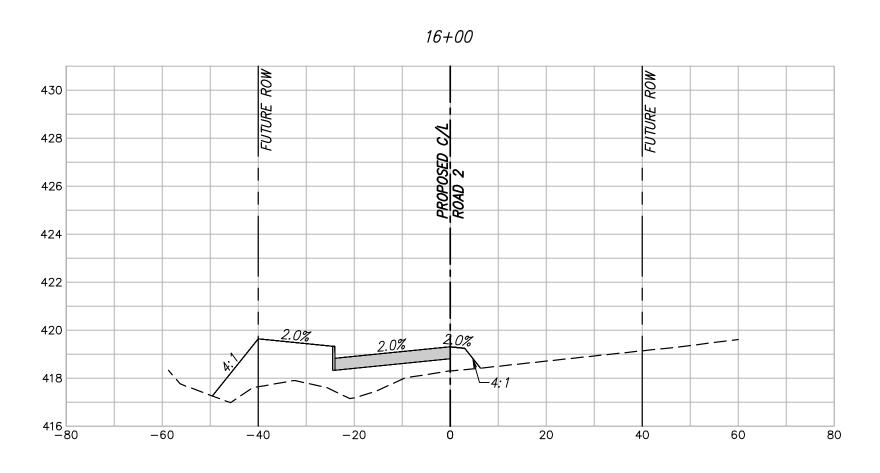


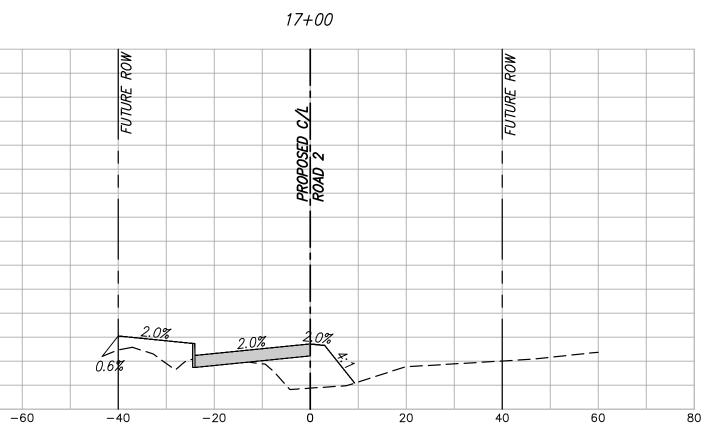


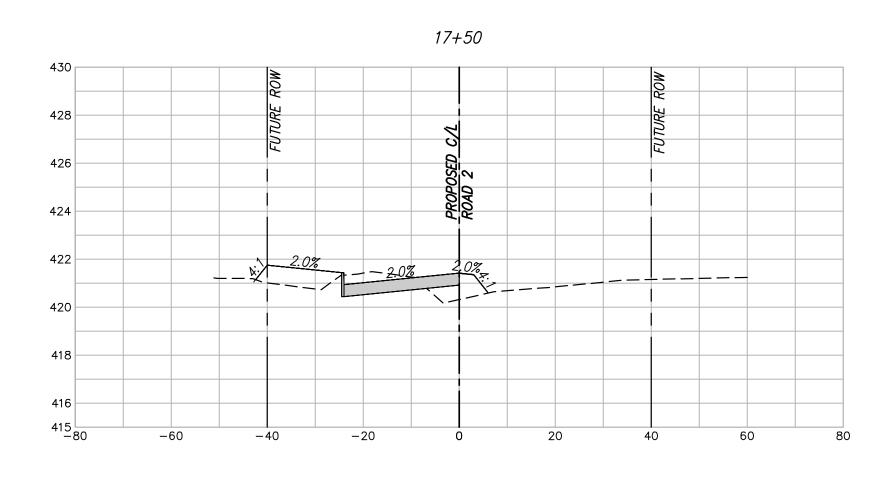


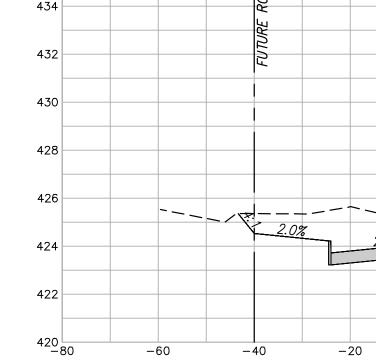




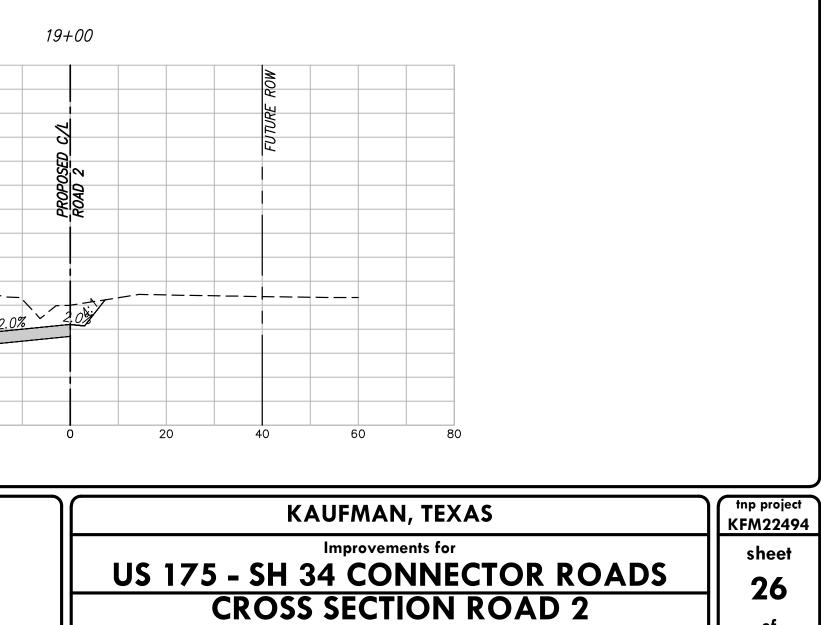








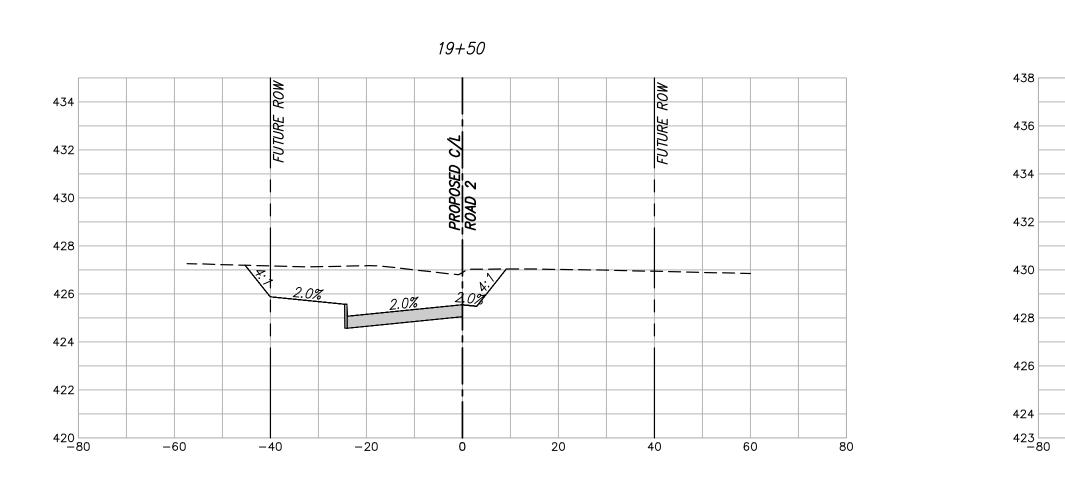
**KAUFMAN COUNTY** 1902 E. US HWY 175 KAUFMAN, TX 75142 PH: 469-376-4100

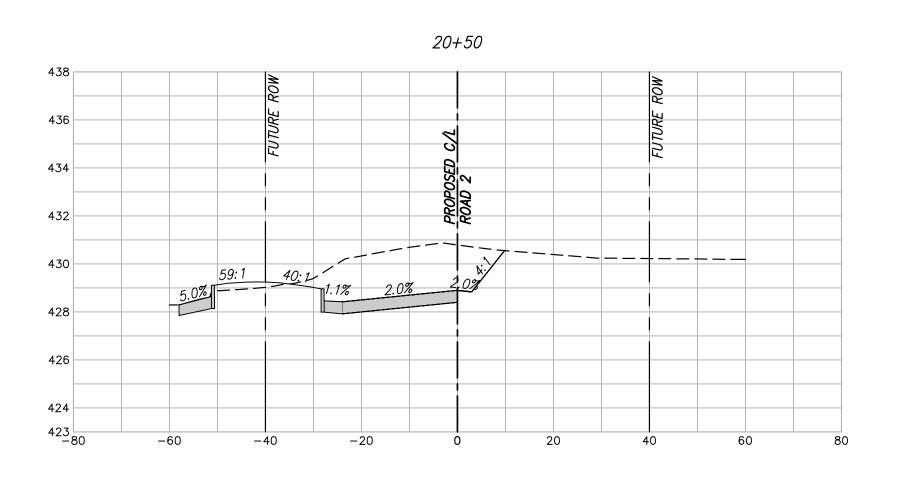


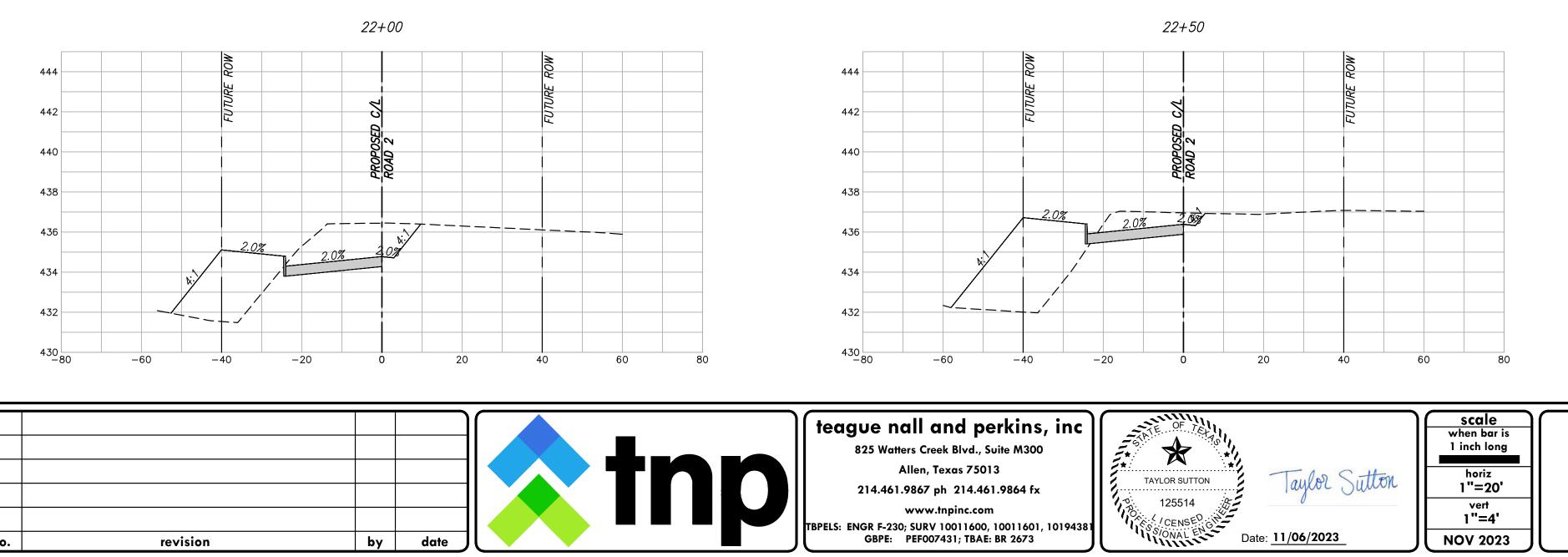
STA. 15+00 TO 19+00

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438

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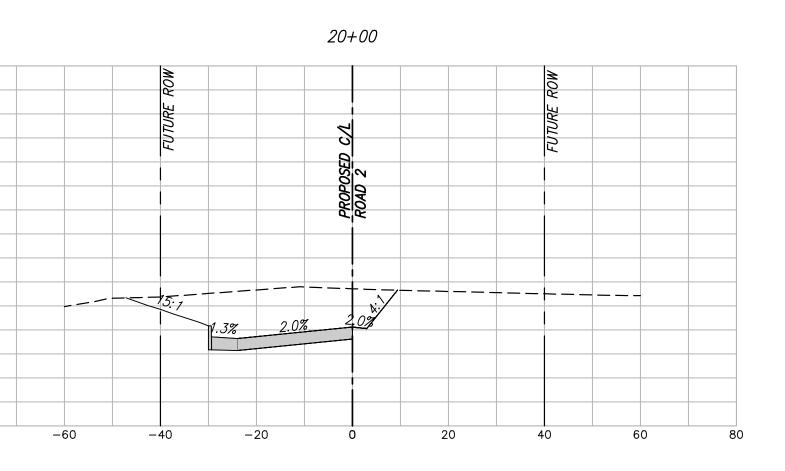
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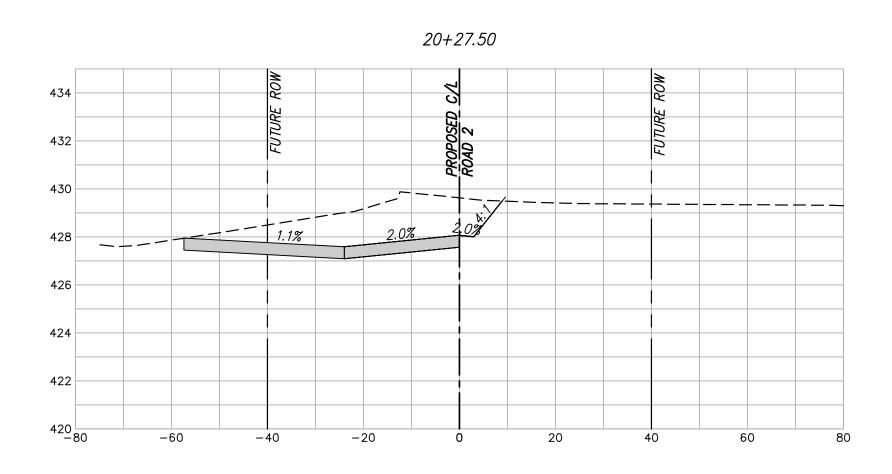
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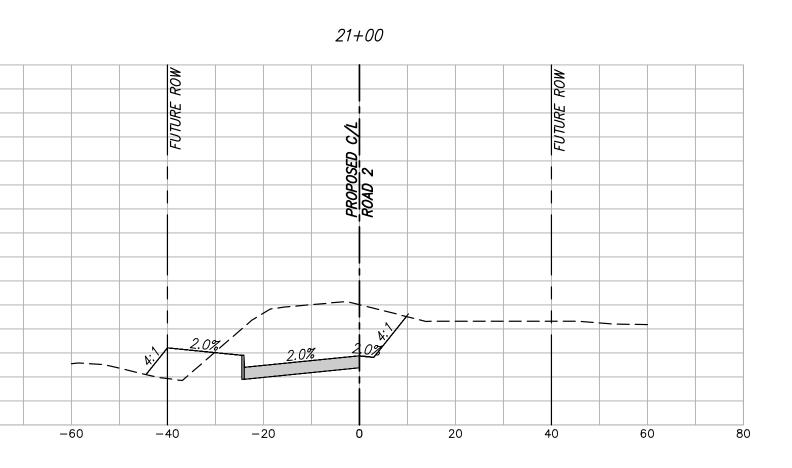
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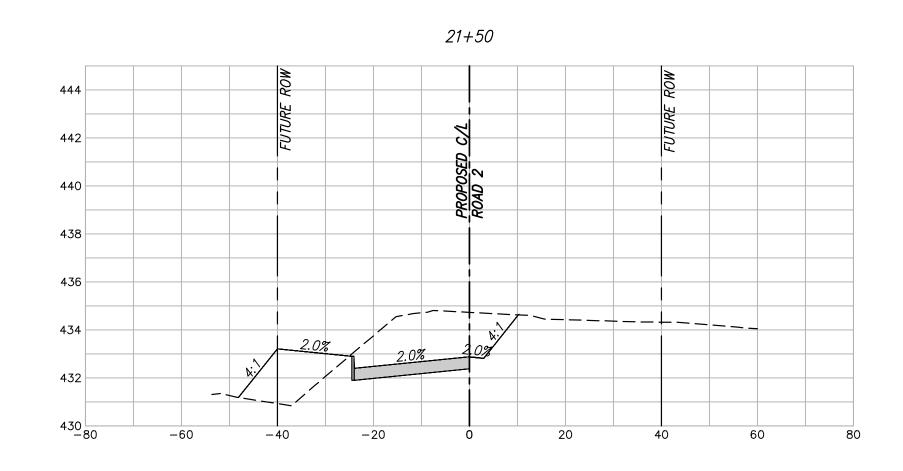
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428 -80



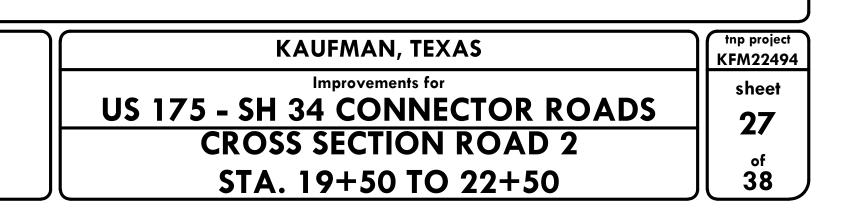


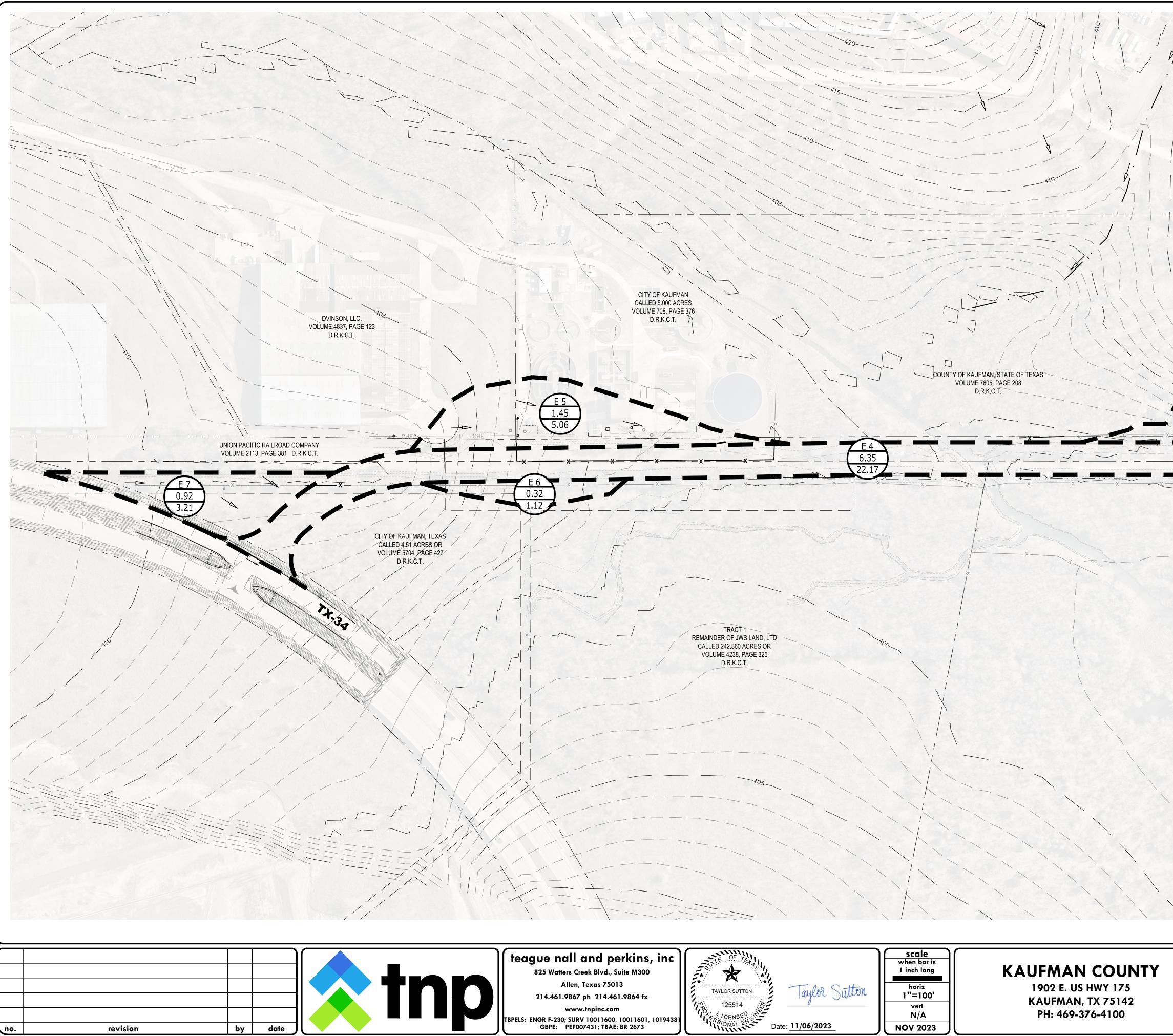


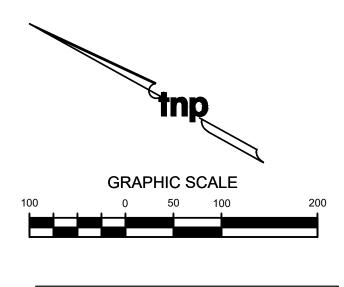


# **KAUFMAN COUNTY**

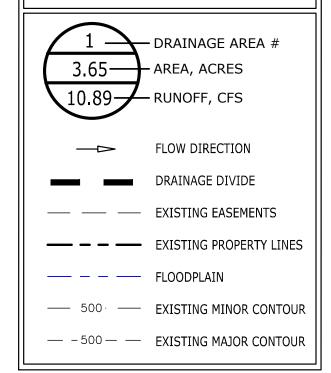
1902 E. US HWY 175 KAUFMAN, TX 75142 PH: 469-376-4100







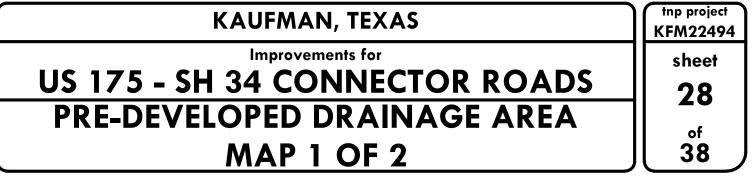




100-YR STORM C = 0.30I = See calculation table Cf= 1.25 A = Area (Ac.) Q=(Cf)(C)(I)(A)

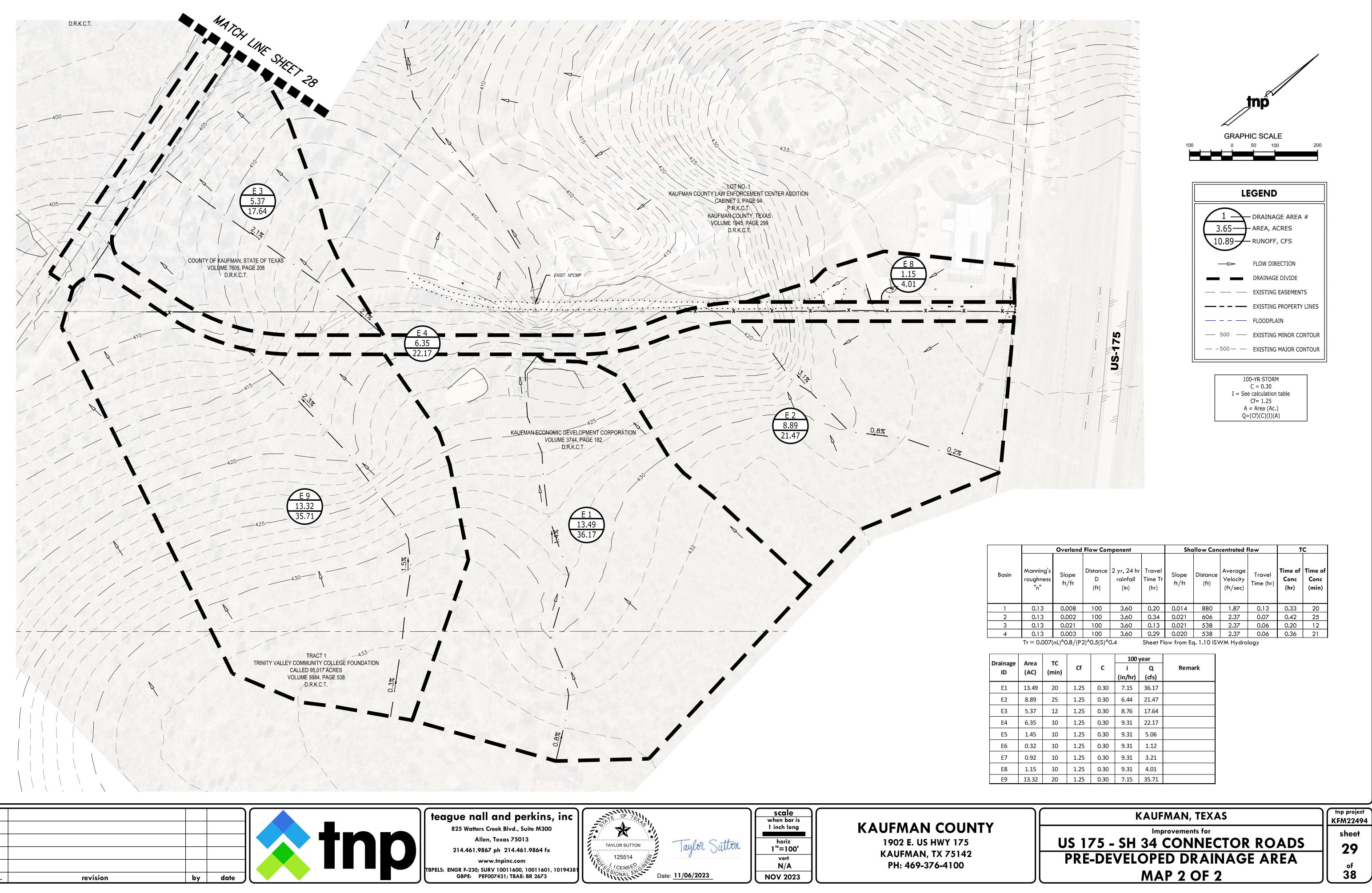
		Overland	Flow Con	nponent		Sha	Illow Con	low	TC		
Basin	Manning's roughness "n"	Slope ft/ft	Distance D (ft)	2 yr, 24 hr rainfall (in)	rainfall Time Tt		Distance (ft)	Average Velocity (ft/sec)	Travel Time (hr)	Time of Conc (hr)	Time of Conc (min)
1	0.13	0.008	100	3.60	0.20	0.014	880	1.87	0.13	0.33	20
2	0.13	0.002	100	3.60	0.34	0.021	606	2.37	0.07	0.42	25
3	0.13	0.021	100	3.60	0.13	0.021	538	2.37	0.06	0.20	12
4	0.13	0.003	100	3.60	0.29	0.020	538	2.37	0.06	0.36	21
	Tt = 0.007(	nL)^0.8/(P2	2)^0.5(S)^(	0.4	Sheet Fl	ow from Ec	γ. 1.1 <mark>0 i</mark> SV	VM Hydro	logy		

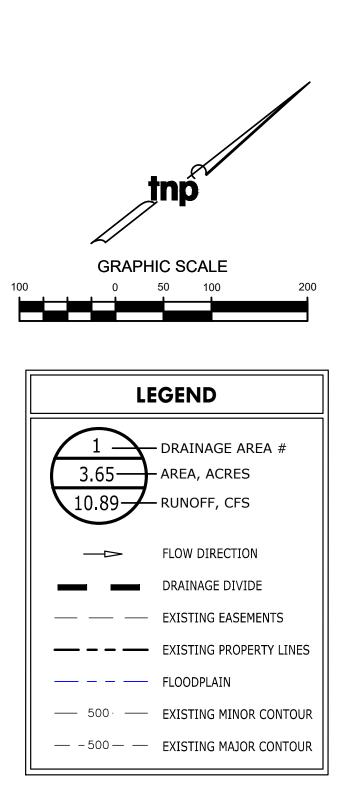
Duraina	<b>A</b>	TC		100	year		
Drainage ID	Area (AC)	TC (min)	Cf	С	l (in/hr)	Q (cfs)	Remark
E1	13.49	20	1.25	0.30	7.15	36.17	
E2	8.89	25	1.25	0.30	6.44	21.47	
E3	5.37	12	1.25	0.30	8.76	17.64	
E4	6.35	10	1.25	0.30	9.31	22.17	
E5	1.45	10	1.25	0.30	9.31	5.06	
E6	0.32	10	1.25	0.30	9.31	1.12	
E7	0.92	10	1.25	0.30	9.31	3.21	
E8	1.15	10	1.25	0.30	9.31	4.01	
E9	13.32	20	1.25	0.30	7.15	35.71	



2

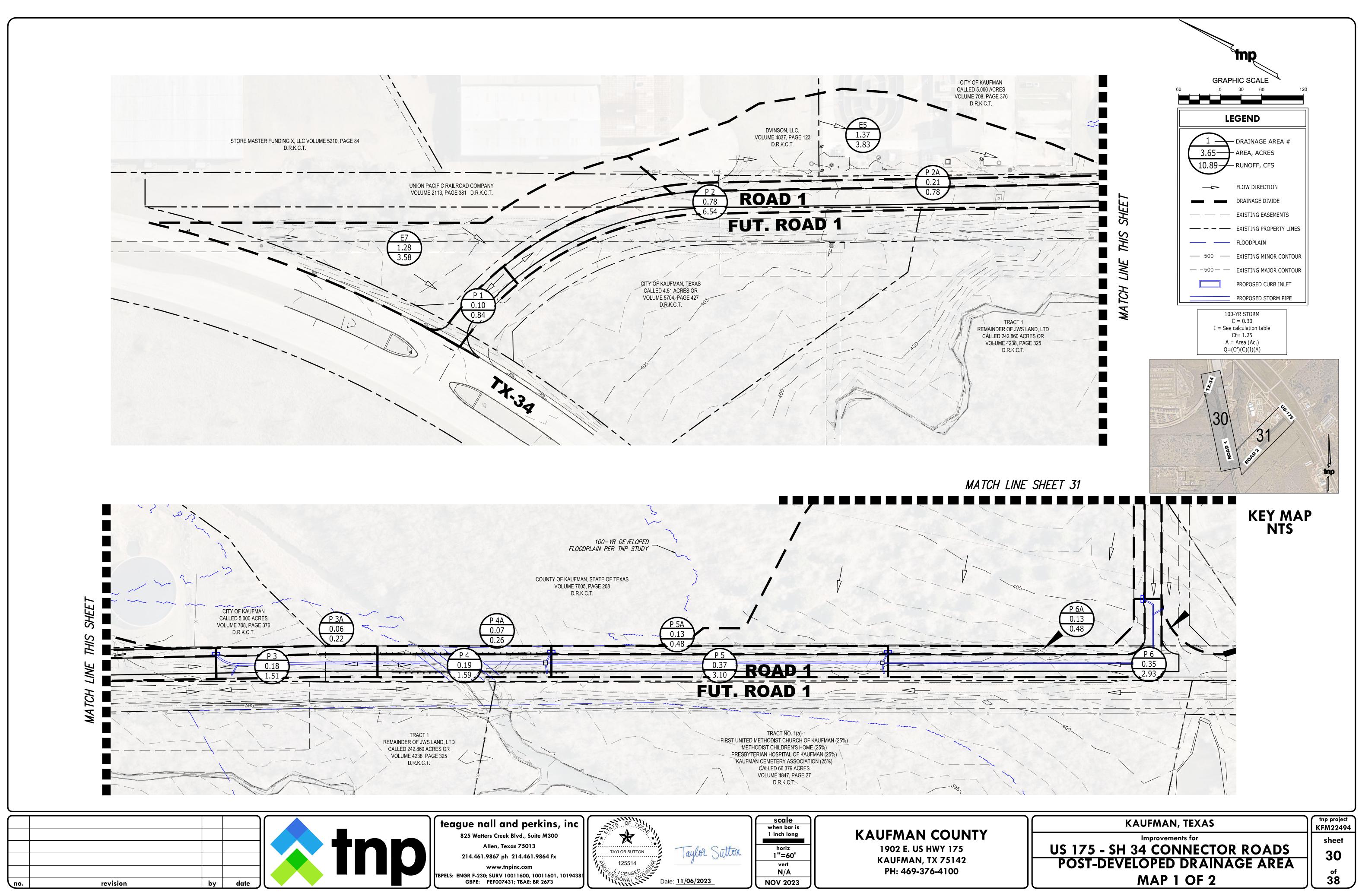
MA



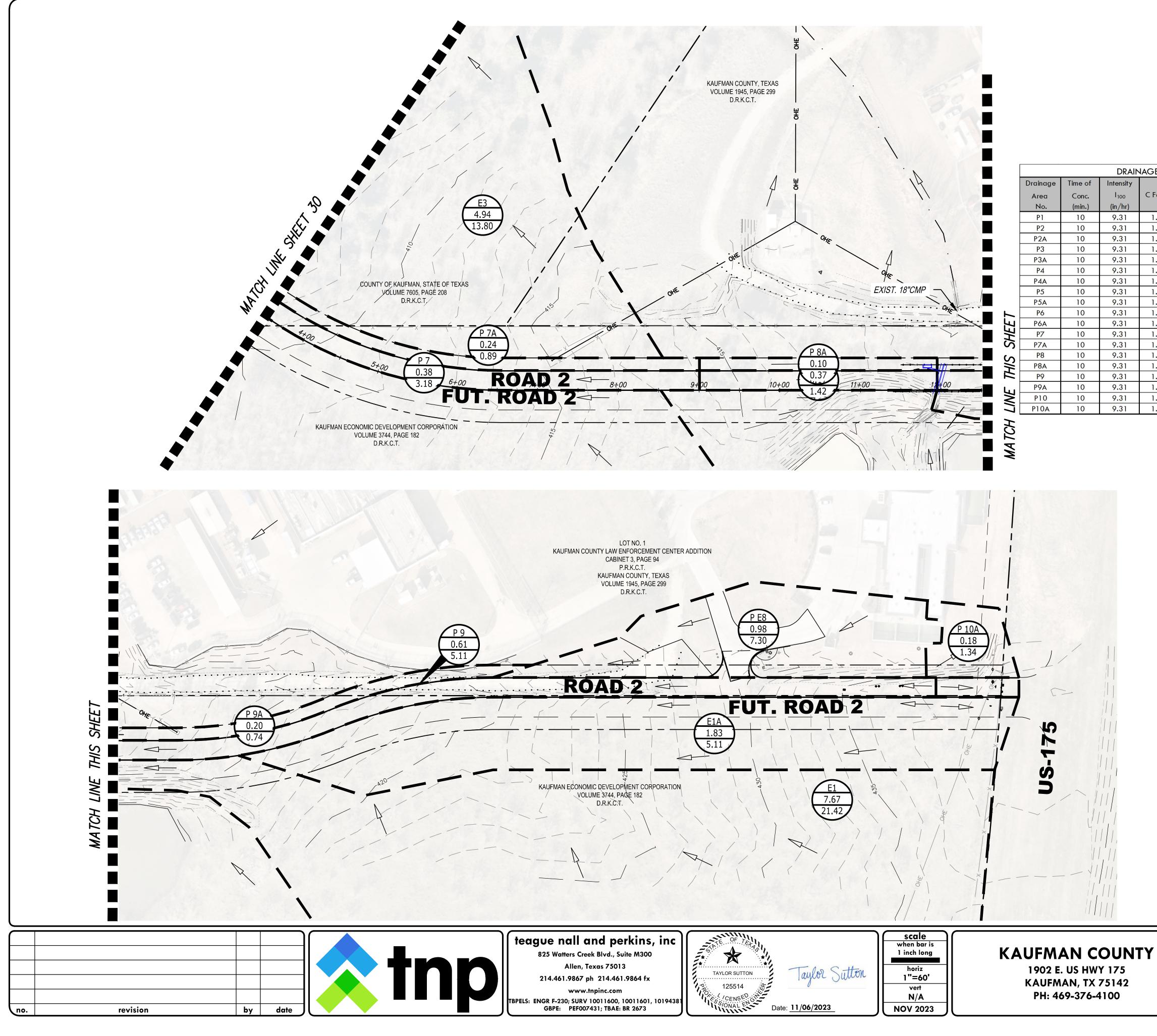


		Overland	Flow Con	nponent		Shc	llow Con	centrated f	low	тс		
in	Manning's roughness "n"	ughness ft /ft		Distance 2 yr, 24 hr D rainfall 1 (ft) (in)		Slope ft/ft	Distance (ft)	Average Velocity (ft/sec)	Travel Time (hr)	Time of Conc (hr)	Time of Conc (min)	
	0.13	0.008	100	3.60	0.20	0.014	880	1.87	0.13	0.33	20	
	0.13	0.002	100	3.60	0.34	0.021	606	2.37	0.07	0.42	25	
	0.13	0.021	100	3.60	0.13	0.021	538	2.37	0.06	0.20	12	
	0.13	0.003	100	3.60	0.29	0.020	538	2.37	0.06	0.36	21	
	Tt = 0.007(	nL)^0.8/(P	2)^0.5(S)^(	0.4	Sheet Fl	ow from Ec	a. 1.10 iSV	VM Hydro	logy			

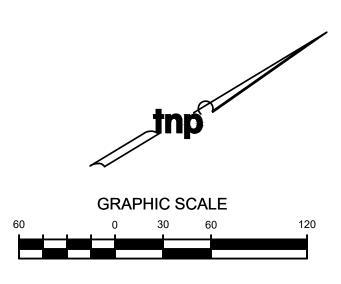
	Area	тс			100	year	
age	(AC)	(min)	Cf	С	1	Q	Remark
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(,			(in/hr)	(cfs)	
	13.49	20	1.25	0.30	7.15	36.17	
	8.89	25	1.25	0.30	6.44	21.47	
	5.37	12	1.25	0.30	8.76	17.64	
	6.35	10	1.25	0.30	9.31	22.17	
	1.45	10	1.25	0.30	9.31	5.06	
	0.32	10	1.25	0.30	9.31	1.12	
	0.92	10	1.25	0.30	9.31	3.21	
	1.15	10	1.25	0.30	9.31	4.01	
	13.32	20	1.25	0.30	7.15	35.71	



all and perkins, inc ers Creek Blvd., Suite M300 Allen, Texas 75013 .9867 ph 214.461.9864 fx www.tnpinc.com 0; SURV 10011600, 10011601, 10194381 PEF007431; TBAE: BR 2673	TAYLOR SUTTON 125514 SS/ONAL ENGINE	Taylor Sutton Date: <u>11/06/2023</u>	scale when bar is 1 inch long horiz 1"=60' vert N/A NOV 2023	KAUFMAN COUNTY 1902 E. US HWY 175 KAUFMAN, TX 75142 PH: 469-376-4100

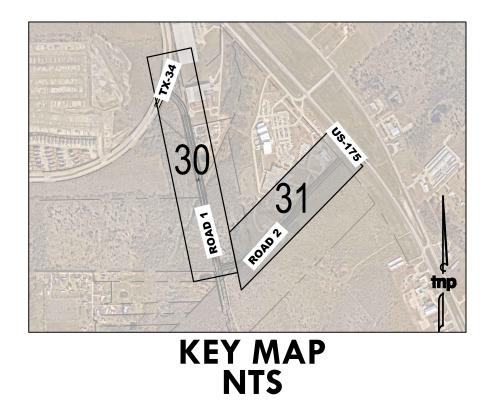


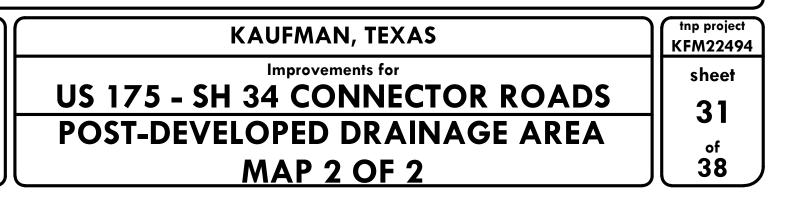
		DRAIN		A CALCULAT	IONS		
Drainage	e Time of	Intensity		Runoff			FLOW TO
Area	Conc.	I <sub>100</sub>	C Factor	Coefficient	Area	Q <sub>100</sub>	INLET ID
No.	(min.)	(in/hr)		С	(ac.)	(cfs)	INCELLIE
P1	10	9.31	1.00	0.90	0.10	0.84	
P2	10	9.31	1.00	0.90	0.78	6.54	A1
P2A	10	9.31	1.00	0.40	0.21	0.78	<mark>A</mark> 1
P3	10	9.31	1.00	0.90	0.18	1.51	A1
P3A	10	9.31	1.00	0.40	0.06	0.22	A1
P4	10	9.31	1.00	0.90	0.19	1.59	B1
P4A	10	9.31	1.00	0.40	0.07	0.26	<b>B</b> 1
P5	10	9.31	1.00	0.90	0.37	3.10	B1
P5A	10	9.31	1.00	0.40	0.13	0.48	B1
P6	10	9.31	1.00	0.90	0.35	2.93	B2
P6A	10	9.31	1.00	0.40	0.13	0.48	B2
P7	10	9.31	1.00	0.90	0.38	3.18	B3
P7A	10	9.31	1.00	0.40	0.24	0.89	B3
P8	10	9.31	1.00	0.90	0.17	1.42	D1
P8A	10	9.31	1.00	0.40	0.10	0.37	D1
P9	10	9.31	1.00	0.90	0.61	5.11	D1
P6 P6A P7 P7A P8 P8A P8A P9 P9A P10 P10A	10	9.31	1.00	0.40	0.20	0.74	D1
P10	10	9.31	1.00	0.90	0.06	0.50	
P10A	10	9.31	1.00	0.30	0.18	0.50	

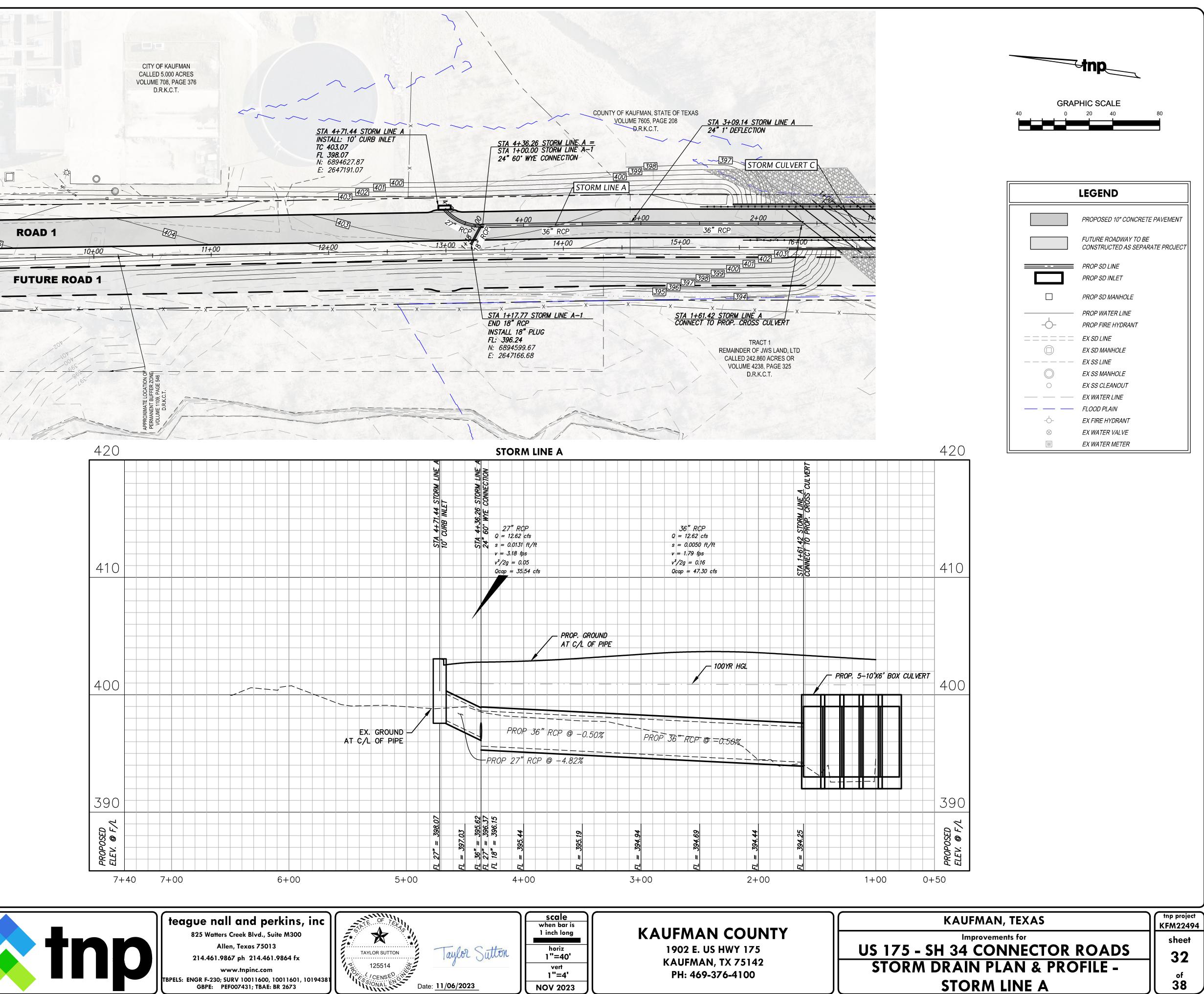


LEGEND										
1 DRAINAGE AREA # 3.65 AREA, ACRES 10.89 RUNOFF, CFS										
DRAINAGE DIVIDE										
EXISTING EASEMENTS										
— — — — EXISTING PROPERTY LINES										
— 500 · — EXISTING MINOR CONTOUR										
— - 500 — — EXISTING MAJOR CONTOUR										
PROPOSED CURB INLET										
PROPOSED STORM PIPE										
100-YR STORM $C = 0.30$ $I = See calculation table$ $Cf= 1.25$ $A = Area (Ac.)$										

Q = (Cf)(C)(I)(A)









no.	revision	by	date	

9+00

PELS: ENGR F-230; SURV 10011600, 10011601, 101943 GBPE: PEF007431; TBAE: BR 2673

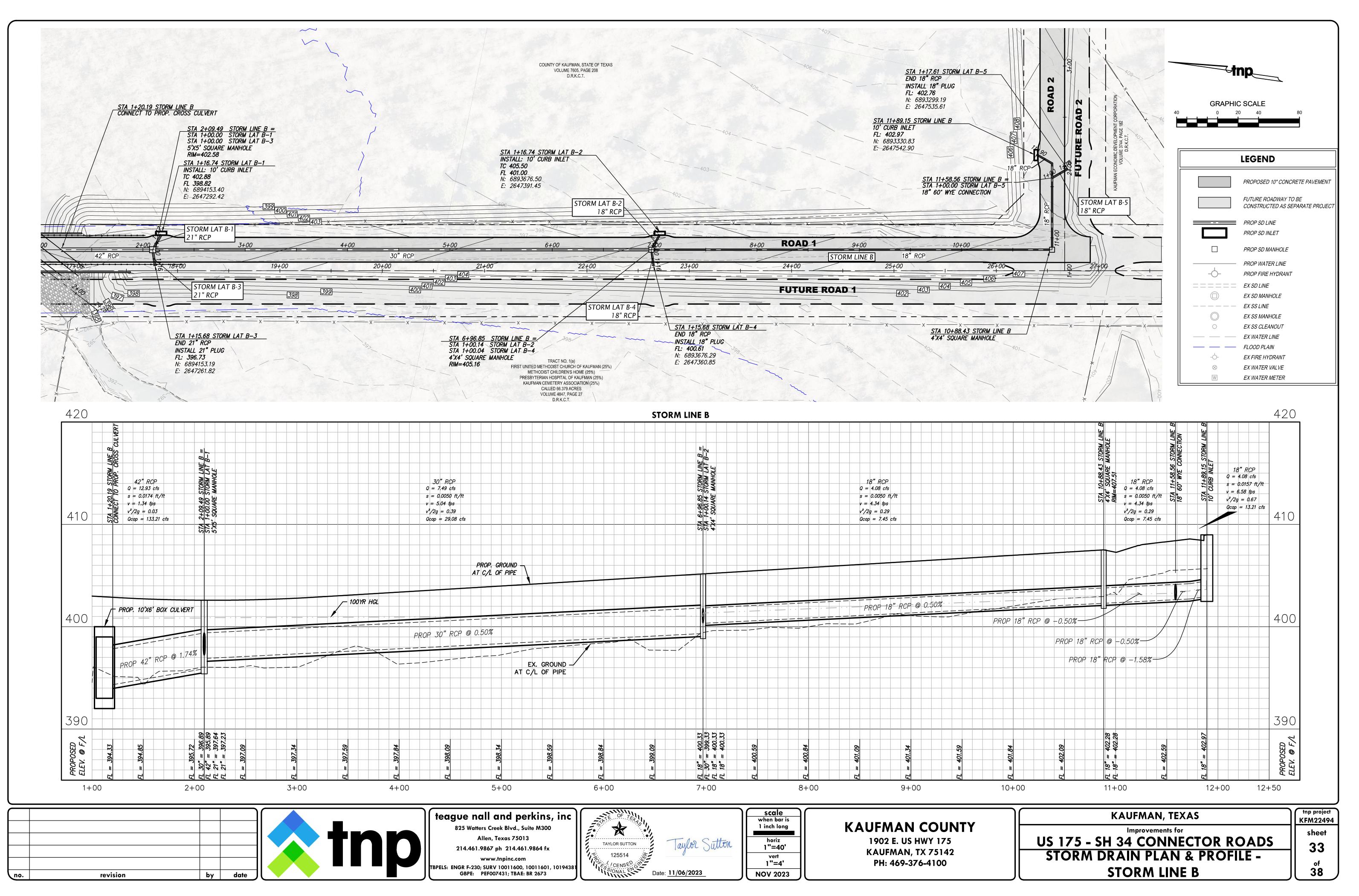
1"=4' NOV 2023

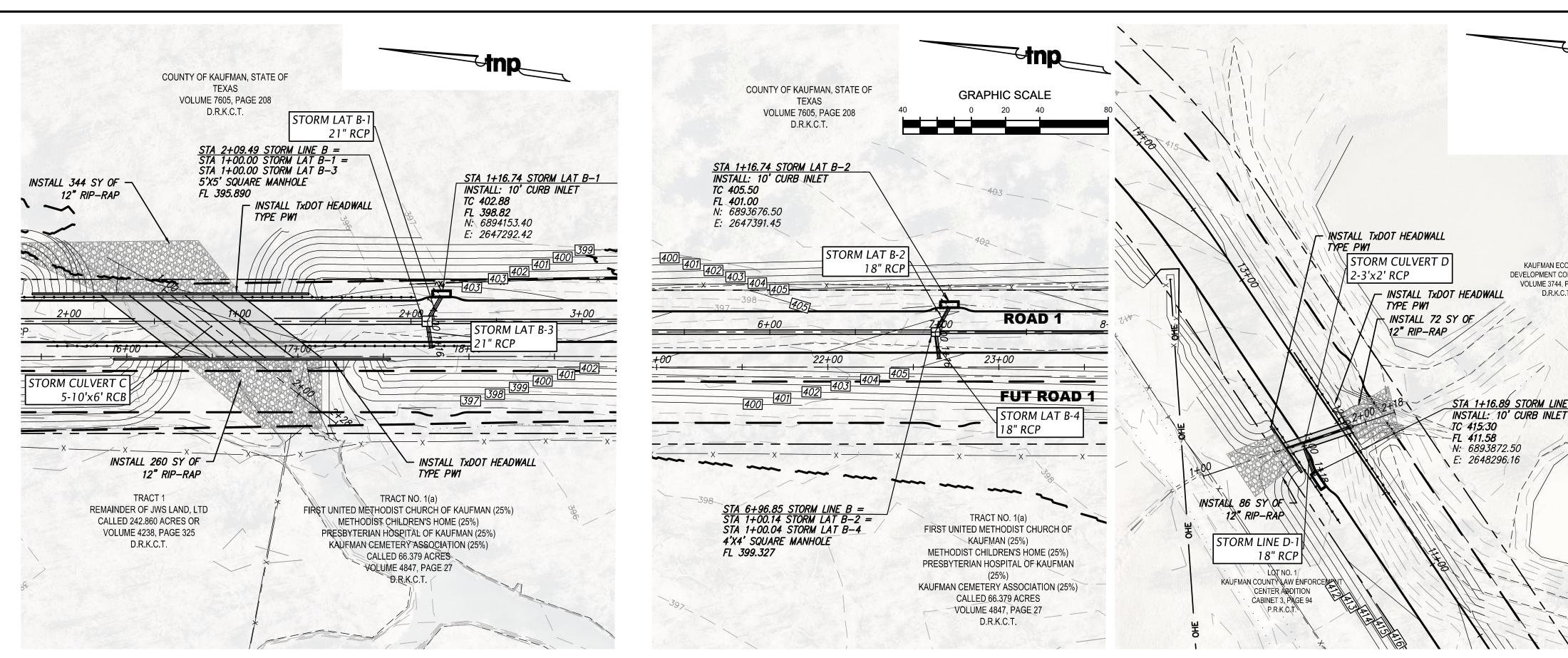
Date: 11/06/2023

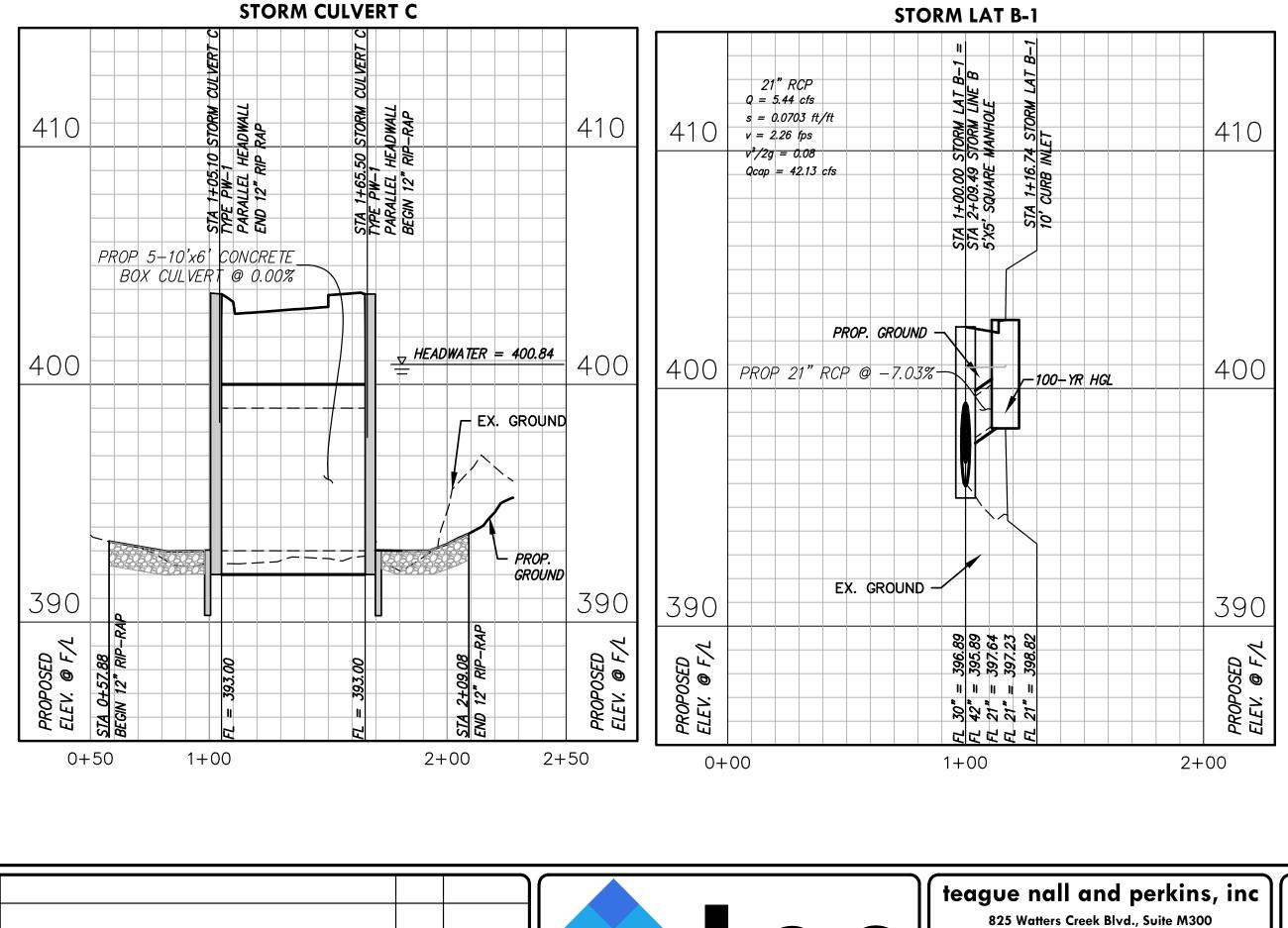
PH: 469-376-4100

**STORM DRAIN PLAN & PROFILE -STORM LINE A** 

sheet 32 of 38



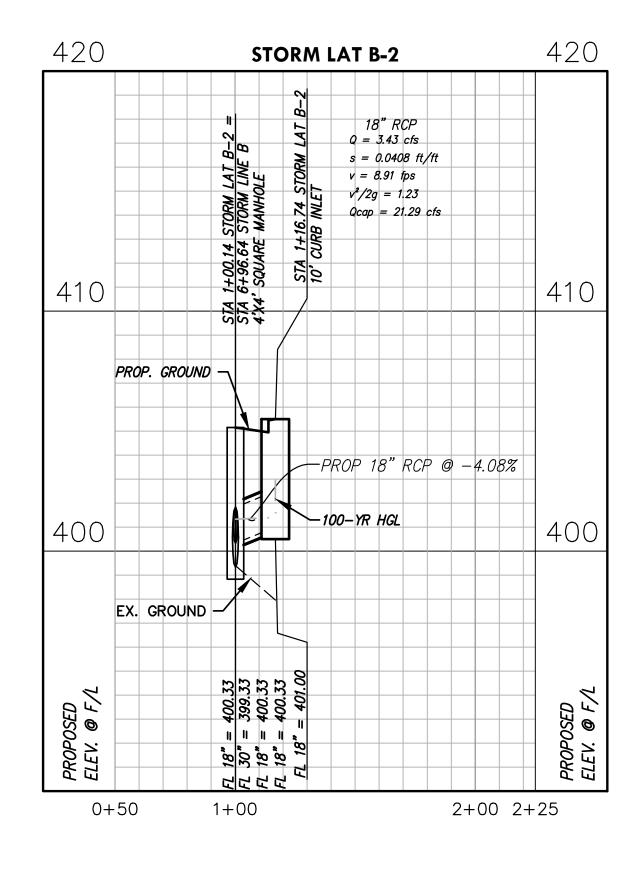


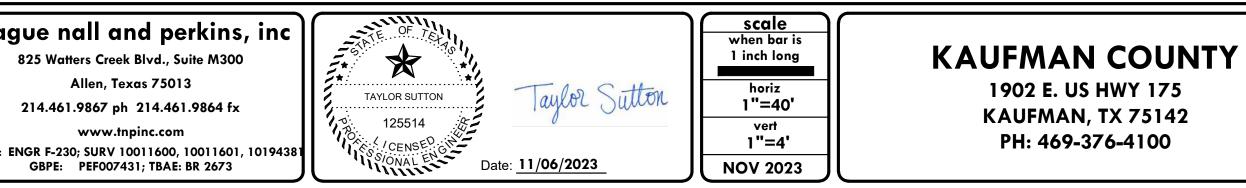


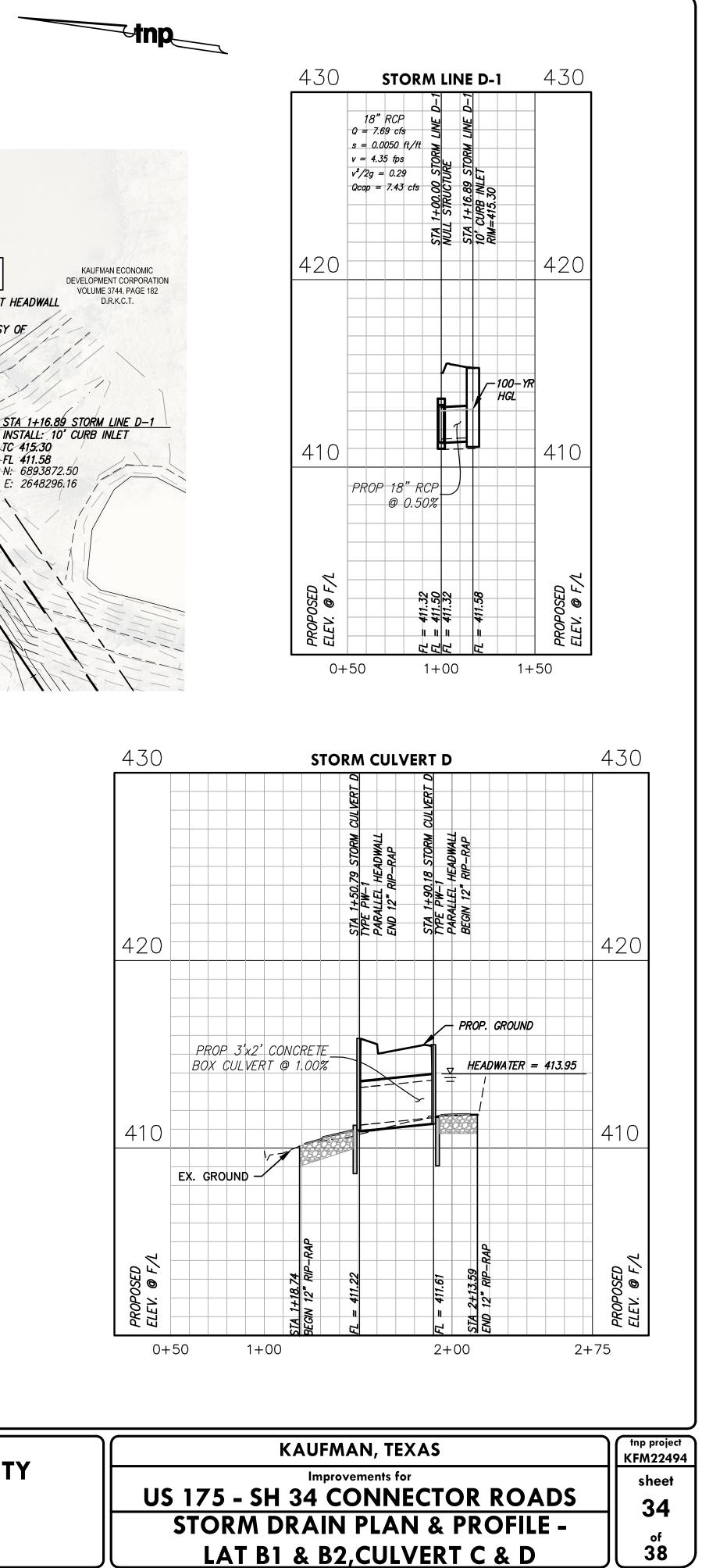
revision

by |

date







ļ								Col	nduit Propertie										Incremental Dra	ainage Area		1									1	
						Conduit			l																						· ·	
System ID	Collection	Point Station	Distance	# of Barrels	Selected	Material	Conduit	Wetted	Hydraulic	Manning's	Flowline	Flowline	Pipe	Inlet	Drainage	"C"	Run-off	Incremental	Accumulated	Upstream	Design Storm	Intensity	Storm Water	Pipe Capacity	Partial	Partial	Velocity	Time in	Friction	Friction		HGL
	Ups tre am	Downs tream	Between	Darrets	Pipe Size	Туре	Area of Flow	Perimeter	Radius	n value	Elevation	Elevation	Slope S	ID	Area "A"	Factor	Coefficient	"CA"	"CA"	Τc	Frequency	"I100"	Runoff	Q(cap)	Flow	Flow	In Sewer	Conduit	Slope Sf	Head Loss	Elevation	Elevati
	Station	Station	Points		(in)		(ft^2)	(ft)	(ft)		Upstream	Downstream	(ft/ft)		(Acres)		"C"				(years)	(in/hr)	Q (cfs)	cfs	(YES/NO)	(YES/NO)	(fps)	(min)	(ft/ft)	(ft)	Ups tre am	Downstr
LINE A	3+09.14	1+61.42	147.72	1	36	RCP	7.07	9.42	0.750	0.013	394.99	394.25	0.0050		0.00	1.00	0.00	0.00	1.36	10.00	100	9.31	12.62	47.30	NO	NO	1.79	1.38	0.00036	0.053	400.89	400.84
	4+36.26	3+09.14	127.12	1	36	RCP	7.07	9.42	0.750	0.013	395.62	394.99	0.0050		0.00	1.00	0.00	0.00	1.36	10.00	100	9.31	12.62	47.27	NO	NO	1.79	1.19	0.00036	0.045	400.94	400.8
	4+71.45	4+36.26	35.19	1	27	RCP	3.98	7.07	0.563	0.013	398.07	396.37	0.0482	A1	2.51	1.00	0.54	1.36	1.36	10.00	100	9.31	12.62	68.17	NO	NO	3.18	0.18	0.00165	0.058	401.03	400.97
										-									In one on tal Due													
						Conduit			nduit Propertie	<b>\$</b>	1								Incremental Dra	anage Area												
System ID		Point Station	Distance	# of	Selected	Material	Conduit	Wetted	Hydraulic	Manning's	Flowline	Flowline	Pipe	Inlet	Drainage	"C"	Run-off	Incremental	Accumulated	Upstream	Design Storm	Intensity	Storm Water	Pipe Capacity	Partial	Partial	Velocity	Time in	Friction	Friction	1	HGL
	Ups tre am	Downstream	Between	Barrels	Pipe Size	Туре	Area of Flow	Perimeter	<b>Radius</b>	n value	Elevation	Elevation	Slope S	ID	Area "A"	Factor	Coefficient	"CA"	"CA"	Tc	Frequency	" <b>I1</b> 00"	Runoff	Q(cap)	Flow	Flow	In Sewer	Conduit	Slope Sf	Head Loss	Elevation	Elevatio
	Station	Station	Points		(in)		(ft^2)	(ft)	(ft)		Upstream	Downstream	(ft/ft)		(Acres)		"C"				(years)	(in/hr)	Q (cfs)	cfs	(YES/NO)	(YES/NO)	(fps)	(min)	(ft/ft)	(ft)	Ups tre am	Downstr
LINE B	2+09.49	1+20.19	89.30	1	42	RCP	9.62	11.00	0.875	0.013	395.89	394.33	0.0174	B1	0.76	1.00	0.77	0.58	1.39	10.00	100	9.31	12.93	133.21	NO	NO	1.34	1.11	0.00016	0.015	400.85	400.84
	6+96.85	2+09.49	487.36	1	30	RCP	4.91	7.85	0.625	0.013	399.33	396.89	0.0050	B2	0.48	1.00	0.76	0.37	0.81	10.00	100	9.31	7.49	29.08	YES	YES	5.04	1.61	0.00033	0.162	401.04	400.88
	10+88.43	6+96.85	391.58	1	18	RCP	1.77	4.71	0.375	0.013	402.29	400.33	0.0050	0	0.00	1.00	0.00	0.00	0.44	10.00	100	9.31	4.08	7.45	YES	YES	4.34	1.50	0.00150	0.587	403.07	401.33
	11+58.56	10+88.43	70.13	1	18	RCP	1.77	4.71	0.375	0.013	402.64	402.29	0.0050	0	0.00	1.00	0.00	0.00	0.44	10.00	100	9.31	4.08	7.45	YES	YES	4.34	0.27	0.00150	0.105	403.42	403.28
	11+72.70	11+58.56	14.14	1	18	RCP	1.77	4.71	0.375	0.013	402.71	402.64	0.0050	0	0.00	1.00	0.00	0.00	0.44	10.00	100	9.31	4.08	7.41	YES	YES	4.32	0.05	0.00150	0.021	403.61	403.5
	11+89.15	11+72.70	16.45	1	18	RCP	1.77	4.71	0.375	0.013	402.97	402.71	0.0157	B3	0.62	1.00	0.71	0.44	0.44	10.00	100	9.31	4.08	13.21	YES	YES	6.58	0.04	0.00150	0.025	403.76	403.7
								Ca	nduit Propertie	2									Incremental Dra	inago Aroo				-								
						Conduit				,										anage Area												
System ID	Collection	Point Station	Distance	# of Barrels	Selected	Material	Conduit	Wetted	Hydraulic	Manning's	Flowline	Flowline	Pipe	Inlet	Drainage	"C"	Run-off	Incremental	Accumulated	Upstream	Design Storm	Intensity	Storm Water	Pipe Capacity	Partial	Partial	Velocity	Time in	Friction	Friction		HGL
	<b>Upstream</b>	Downstream	Between	Darreis	Pipe Size	Туре	Area of Flow	Perimeter	Radius	n value	Elevation	Elevation	Slope S	ID	Area "A"	Factor	Coefficient	"CA"	"CA"	Τc	Frequency	"1100"	Runoff	Q(cap)	Flow	Flow	In Sewer	Conduit	Slope Sf	Head Loss	Elevation	Elevatio
	Station	Station	Points		(in)		(ft^2)	(ft)	(ft)		Upstream	Downstream	(ft/ft)		(Acres)		"C"				(years)	(in/hr)	Q (cfs)	cfs	(YES/NO)	(YES/NO)	(fps)	(min)	(ft/ft)	(ft)	Upstream	Downstre
LAT B1	1+16.74	1+00.00	16.74	1	21	RCP	2.41	5.50	0.438	0.013	398.82	397.64	0.0703	B1	0.76	1.00	0.77	0.58	0.58	10.00	100	9.31	5.44	42.13	NO	NO	2.26	0.12	0.00117	0.020	400.90	400.88
								Cor	nduit Propertie	5									Incremental Dra	ainage Area												
	Collection	Point Station	Distance	# of	Selected	Conduit Material	Conduit	Wetted	Hydraulic	Manning's	Flowline	Flowline	Pipe	Inlet	Drainage	"C"	Run-off	Incremental	Accumulated	Unstream	Design Storm	Intensity	Storm Water	Pipe Capacity	Partial	Partial	Velocity	Time in	Friction	Friction	1	HGL
System ID	concentra		Distance	Barrels		Materia	Conduit	wetteu	iryuraune	Maning 5	Flowing	Flowing	Tipe	Inter	Dranage	C	Run-on	Incrementa	Accumulated	opstream	Design Storm	Intensity	Storm water	Tipe Capacity	Tarta	Tartia	velocity	Time in	Filedon	FICTOR		
	<b>Upstream</b>	<b>Downstream</b>	Between		Pipe Size	Туре	Area of Flow	Perimeter	Radius	n value	Elevation	Elevation	Slope S	ID	Area "A"	Factor	Coefficient	"CA"	"CA"	Τc	Frequency	"I100"	Runoff	Q(cap)	Flow	Flow	In Sewer	Conduit	Slope Sf	Head Loss	Elevation	Elevati
	Station	Station	Points		(in)		(ft^2)	(ft)	(ft)		Upstream	Downstream	(ft/ft)		(Acres)		"C"				(years)	(in/hr)	Q (cfs)	cfs	(YES/NO)		(fps)	(min)	(ft/ft)	(ft)	Ups tre am	Downstre
LAT B2	1+16.74	1+00.14	16.60	1	18	RCP	1.77	4.71	0.375	0.013	401.01	400.33	0.0408	B2	0.48	1.00	0.77	0.37	0.37	10.00	100	9.31	3.43	21.29	YES	YES	8.91	0.03	0.00106	0.018	401.41	401.33
								Col	nduit Propertie	5									Incremental Dra	ainage Area	-											
	Collection	Point Station	Distance	# of	Selected	Conduit Material	Conduit	Wetted	Hydraulic	Manning's	Flowline	Flowline	Pipe	Inlet	Drainage	"C"	Run-off	Incremental	Accumulated	Upstream	Design Storm	Intensity	Storm Water	Pipe Capacity	Partial	Partial	Velocity	Time in	Friction	Friction	1	HGL
System ID				Barrels								Elevation		m		Fastan						"I100"	Runoff	Q(cap)	Flow	Flow	In Sewer	Conduit	Slope Sf	Head Loss	Elevation	Elevatio
System ID	Ups tre am	Downstream	Between		Pipe Size	Type	Area of Flow	Perimeter	Radius	n value	Elevation	Elevation	Slope S	ID	Area A	Factor	Соещстени	"CA"	"CA"	10	riequency	1100	Kunon	Ultabl	LIOW							
System ID	Upstream Station	Downstream Station	Between Points		Pipe Size (in)	Туре	Area of Flow (ft^2)	(ft)	Radius (ft)	n value	Upstream	Downstream	Slope S (ft/ft)	ID	Area "A" (Acres)	Factor	Coefficient "C"	"CA"	"CA"	Tc	Frequency (years)	(in/hr)	Q (cfs)	cfs		(YES/NO)	(fps)	(min)	(ft/ft)	(ft)	Ups tre am	Downstre

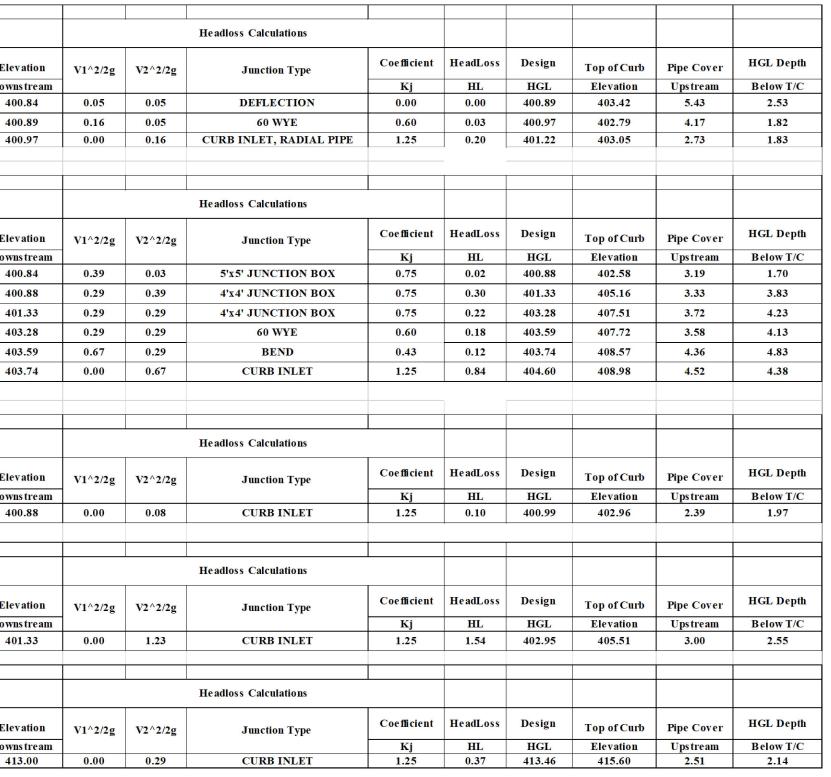


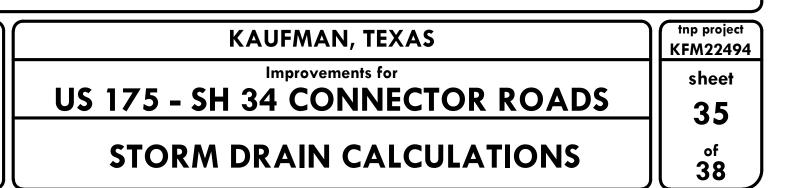
	-		
revision	by	date	

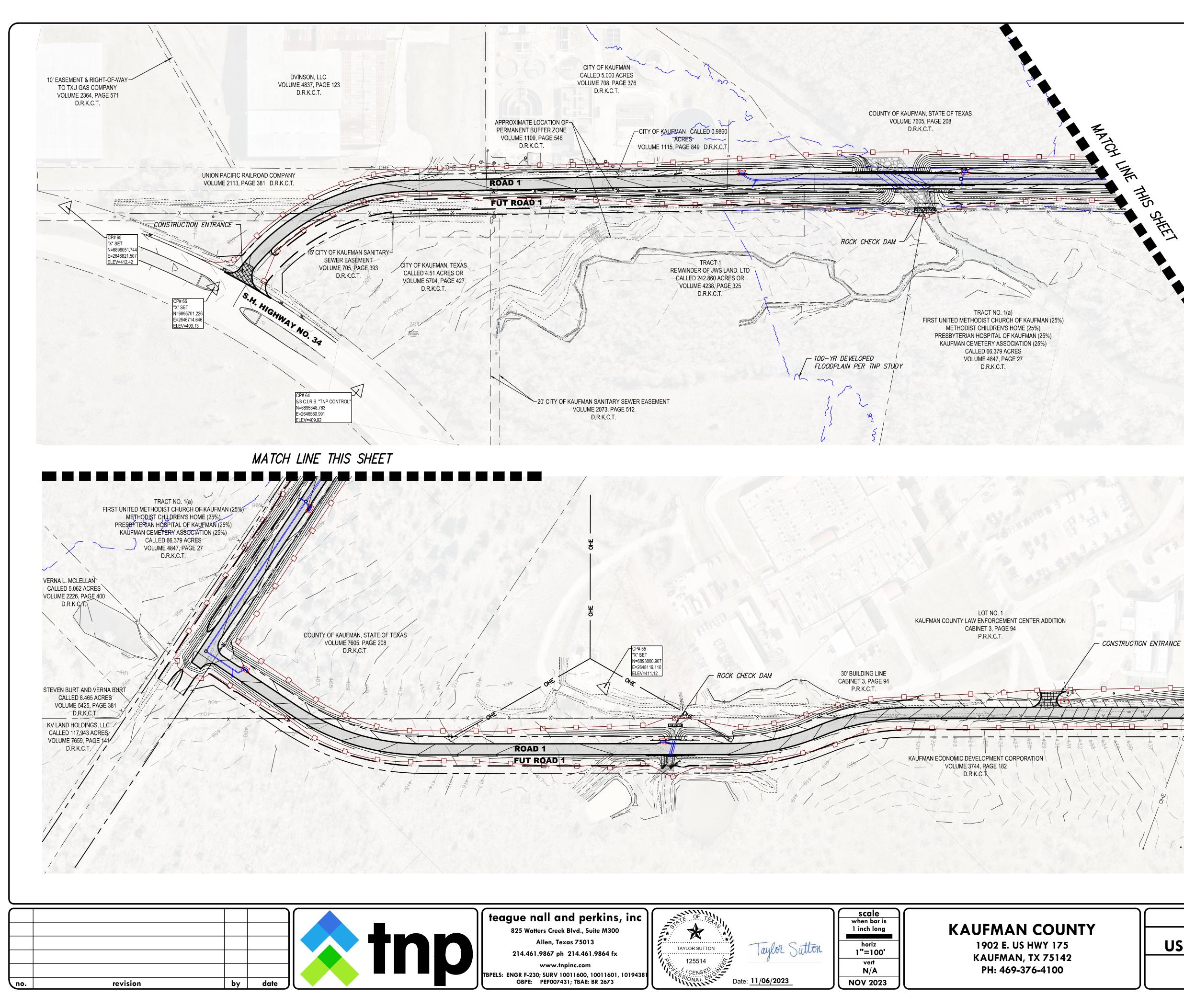
teague i 825 Wa 214.46

IBPELS: ENGR F-23 GBPE:

nall and perkins, inc	TE OF TELAN		when bar is	
atters Creek Blvd., Suite M300			1 inch long	KAUFMAN COUNTY
Allen, Texas 75013	*	The Stan	horiz	1902 E. US HWY 175
51.9867 ph 214.461.9864 fx	TAYLOR SUTTON	aylor Sutton	N/A	KAUFMAN, TX 75142
www.tnpinc.com	P. 125514	U	vert	-
30; SURV 10011600, 10011601, 10194381	CENSE G		N/A	PH: 469-376-4100
E PEF007431; TBAE: BR 2673		Date: 11/06/2023	NOV 2023	



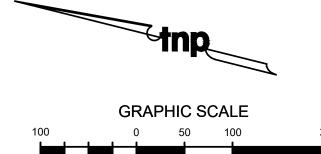




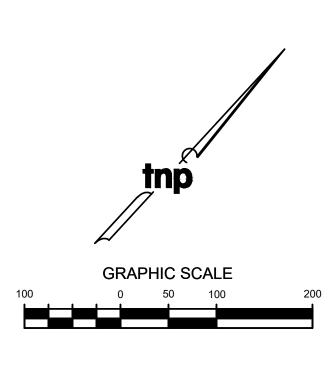
	CONTROL POINT TABLE												
POINT #	NORTHING	EASTING	DESCRIPTION	ELEVATION									
55	6893860.907	2648119.110	"X" SET	411.12									
64	6895348.763	2646560.991	5/8 C.I.R.S. TNP CONTROL"	409.92									
65	6895701.226	2646714.646	"X" SET	409.13									
66	6896051.744	2646821.507	"X" SET	412.42									

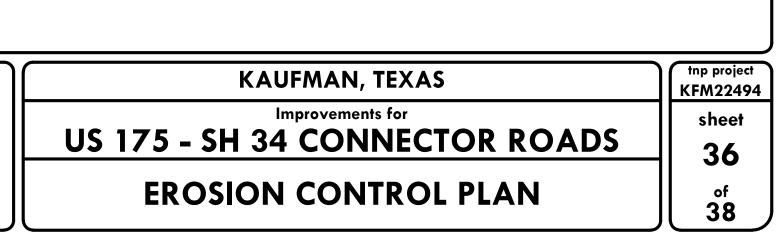
SHEE

SURVEY NOTE: 1. BEARINGS ARE REFERENCED TO GRID NORTH OF THE TEXAS COORDINATE SYSTEM OF 1983 (NORTH CENTRAL ZONE 4202; NAD83(2011) EPOCH 2010). DISTANCES SHOWN HAVE BEEN ADJUSTED TO SURFACE BY APPLYING AN AVERAGE COMBINATION SCALE FACTOR OF 1.000114077



LEGEND					
	INSTALL INLET PROTECTION				
	= PROPOSED STORM DRAIN PIPE				
	PROPOSED CURB INLET				
	PROP. 12" RIP-RAP				
	- PROP. SILT FENCE				
	PROP. ROCK CHECK DAM				
	PROP. CONSTRUCTION ENTRANCE				

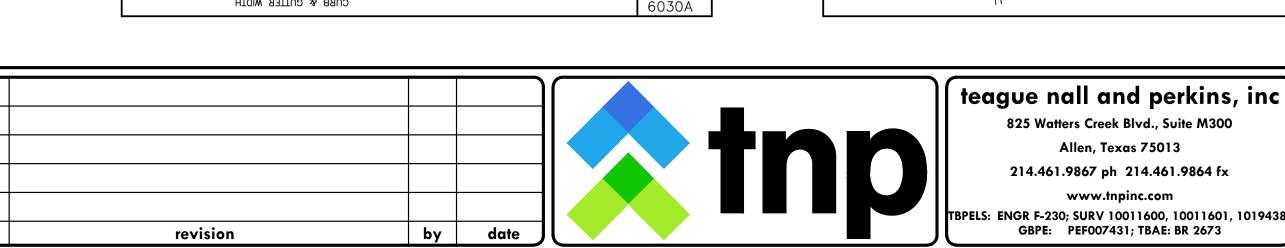


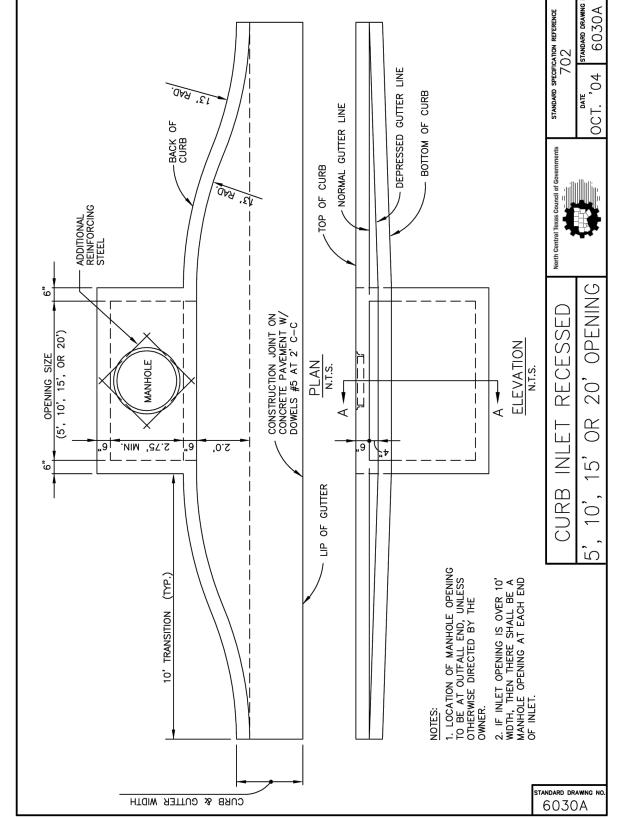


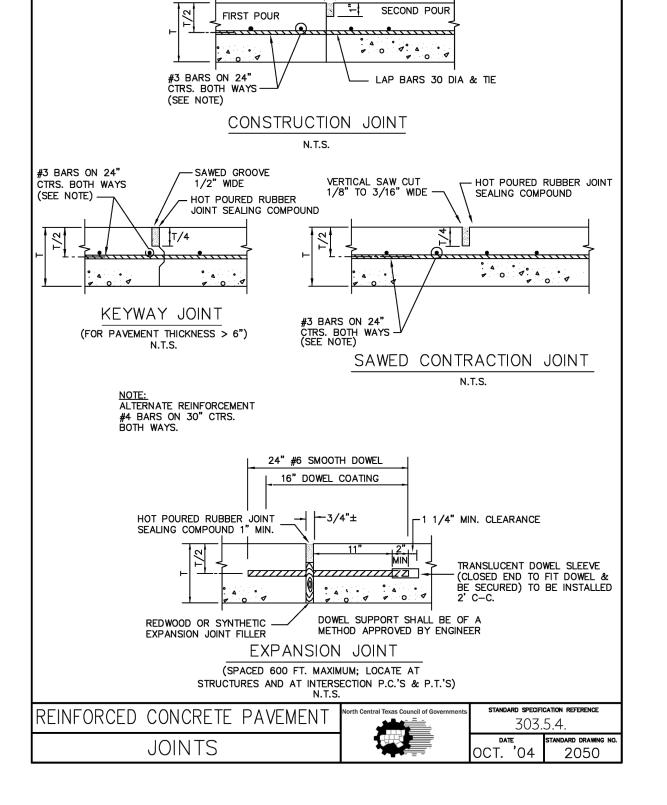
Z

HGH

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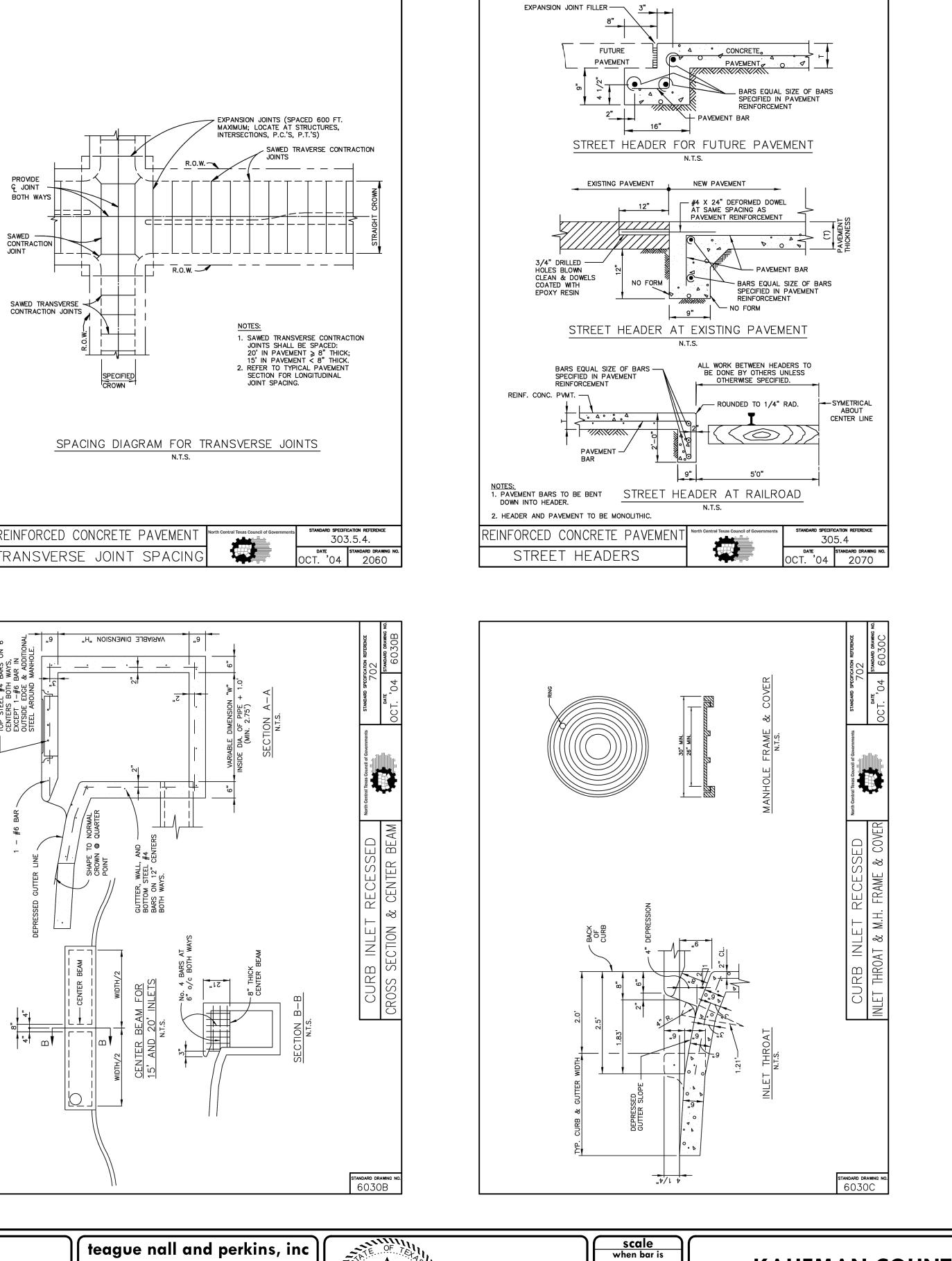


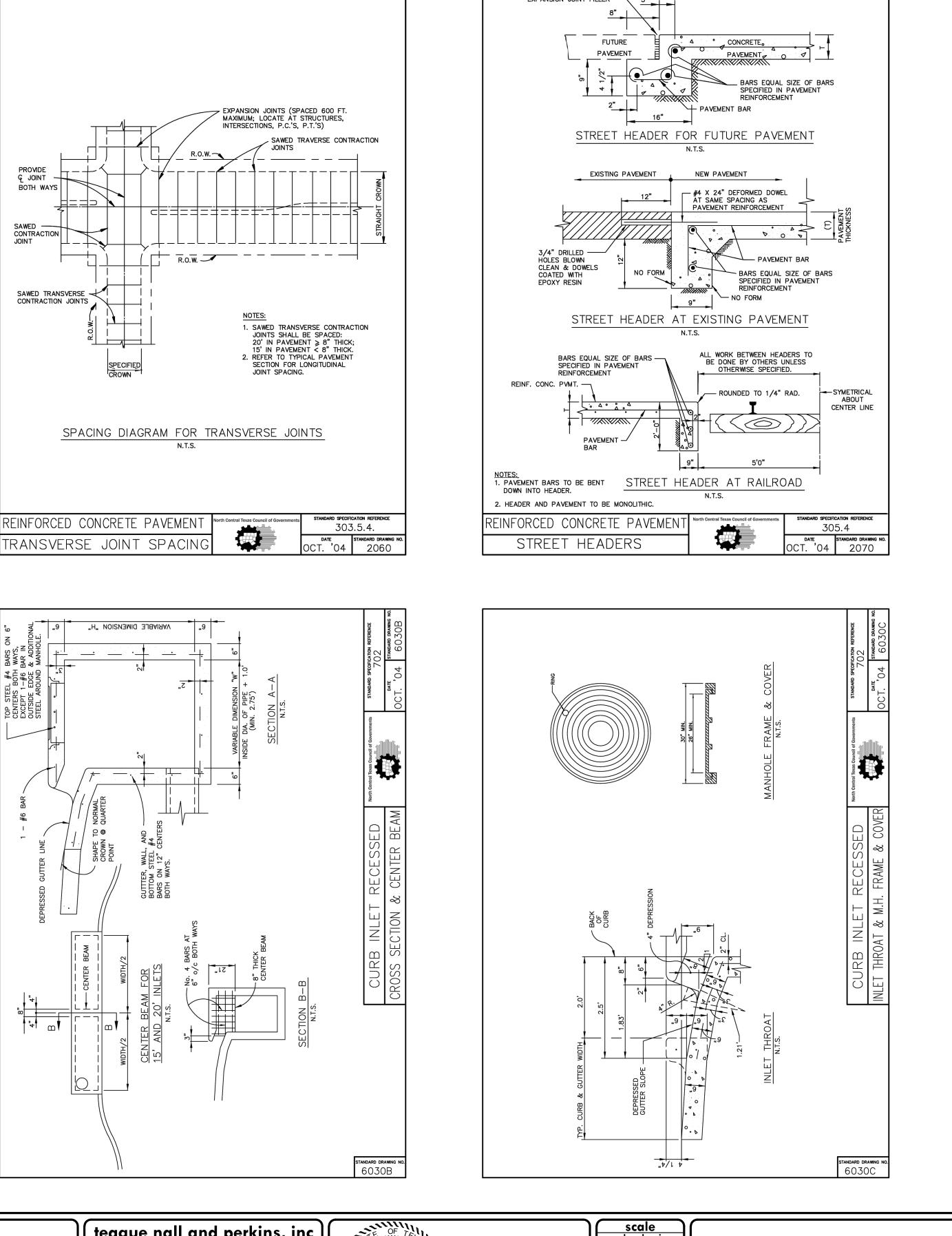
1/2"

SAWED GROOVE

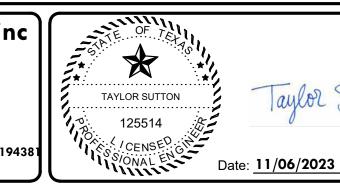
-HOT POURED RUBBER JOINT

SEALING COMPOUND 1" MIN.





825 Watters Creek Blvd., Suite M300 Allen, Texas 75013 214.461.9867 ph 214.461.9864 fx www.tnpinc.com



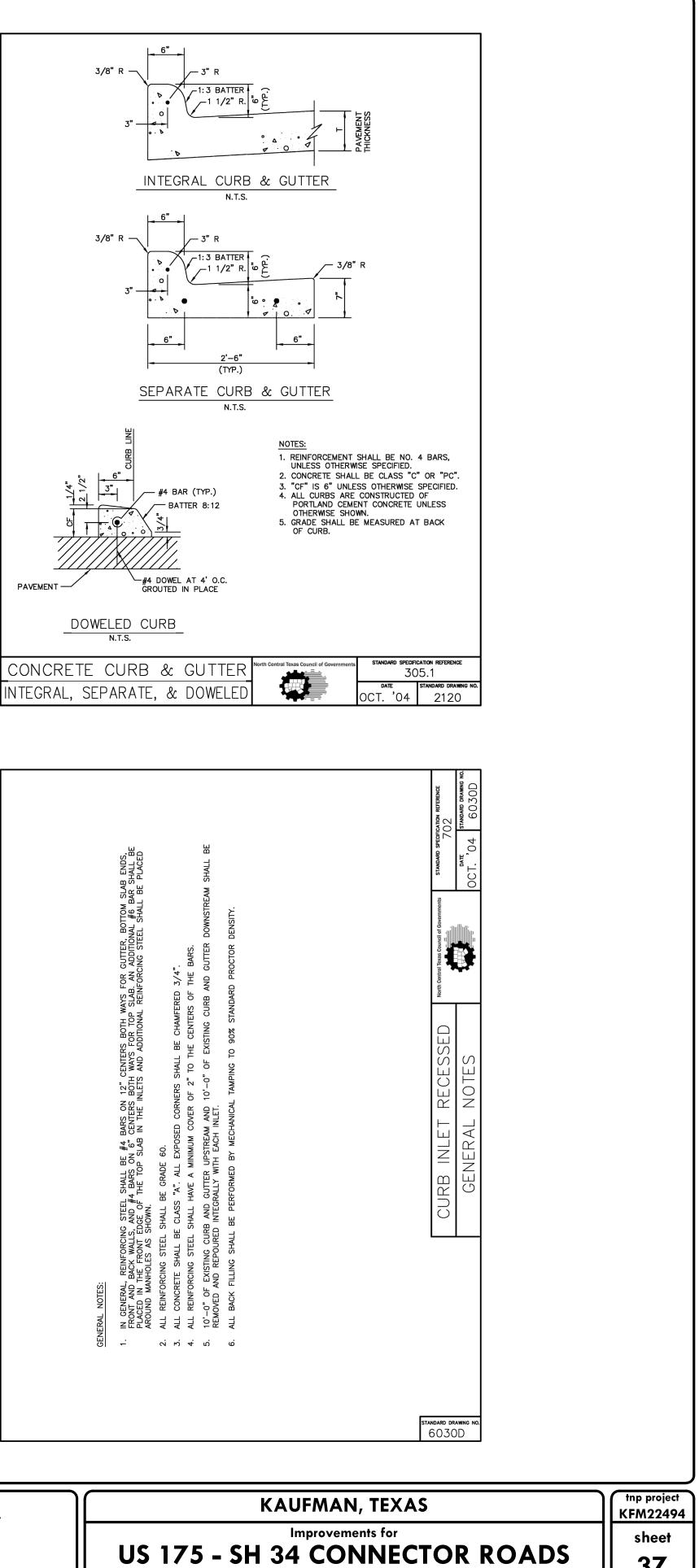
vitton

1 inch long horiz N/A vert N/A

NOV 2023

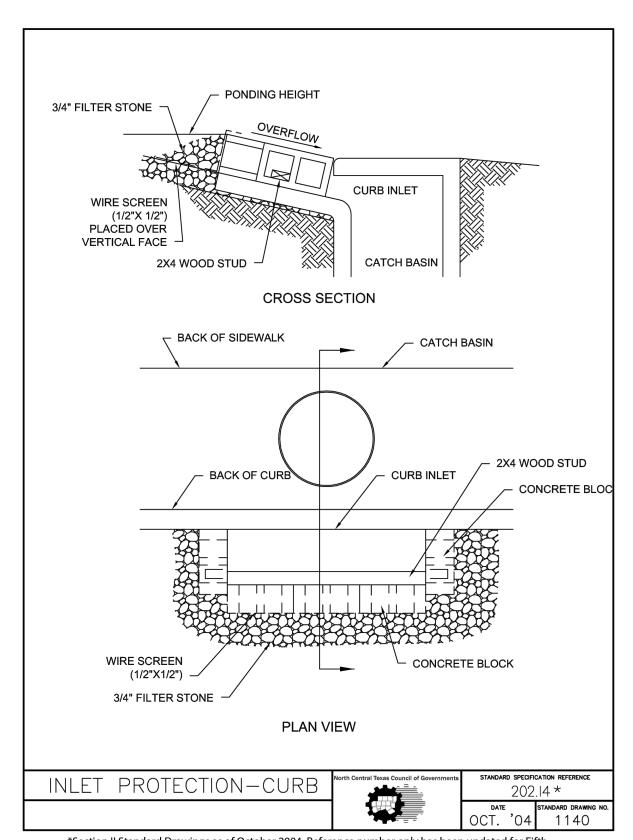
# **KAUFMAN COUNTY** 1902 E. US HWY 175

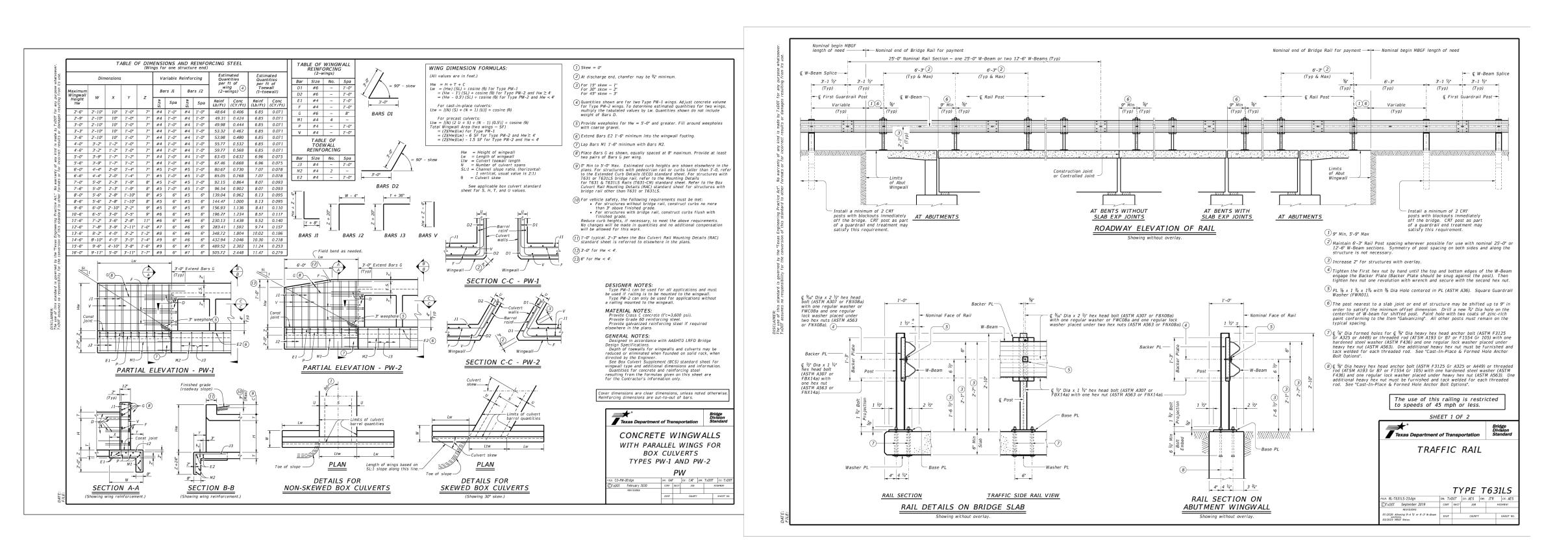
KAUFMAN, TX 75142 PH: 469-376-4100



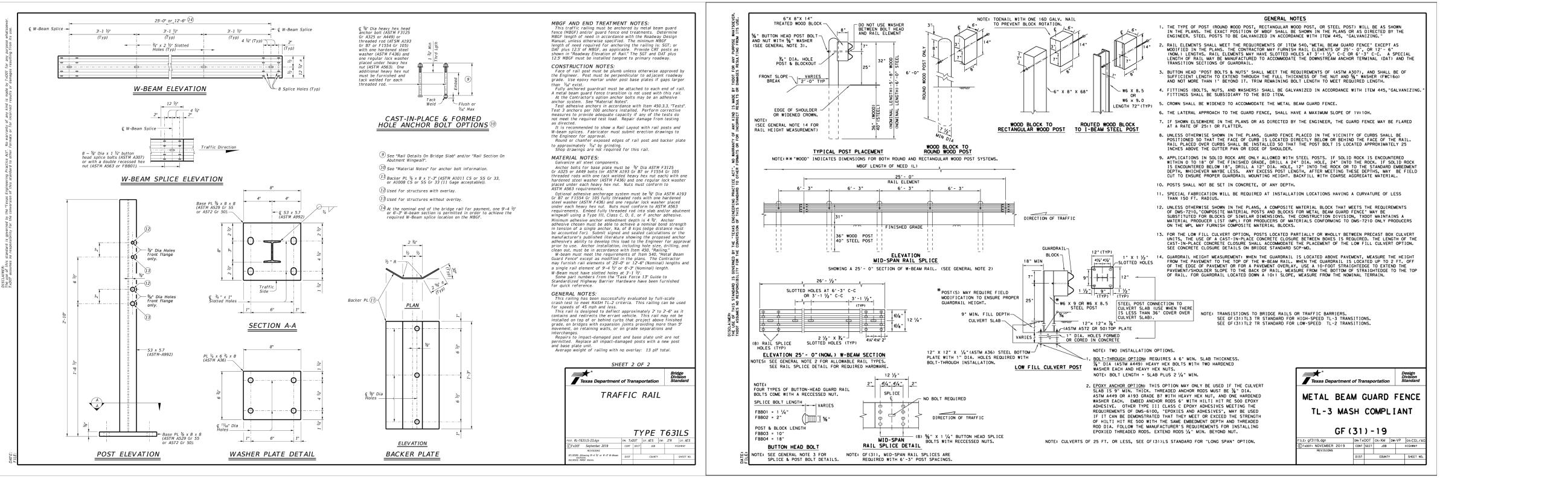


37 of 38

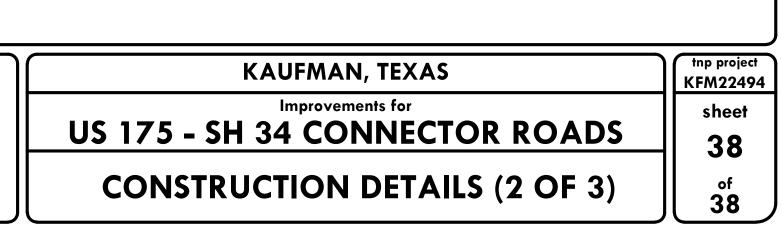


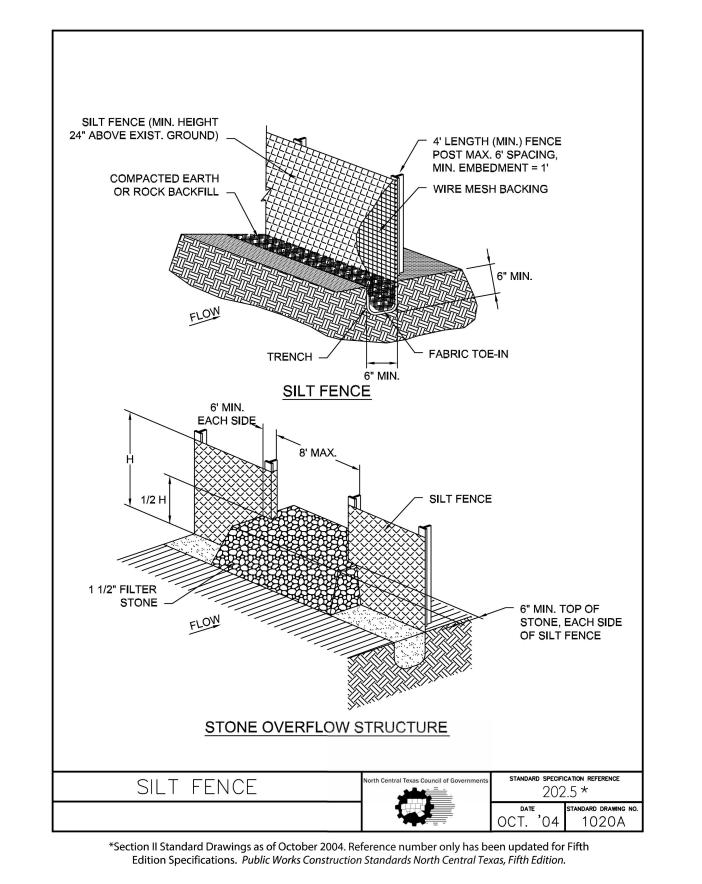


\*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition*.









LENGTH AS SHOWN ON PLANS

RADIUS -

= 5' MIN.

PROFILE VIEW

N.T.S.

TRANSITION TO

PLAN VIEW N.T.S.

Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.

by |

date

PAVED SURFACE

DRAINAGE MUST FLOW

AWAY FROM ENTRANCE

- FILTER FABRIC

PAVED SURFACE -

R.O.W.

TANDARD SPECIFICATION REFERENCE

202.11 \*

STANDARD DRAWING NO

1070A

DATE

CT '04

GRADE TO PREVENT RUNOFF

LENGTH AS SHOWN ON PLANS

GRADE TO DRAIN AWAY FROM

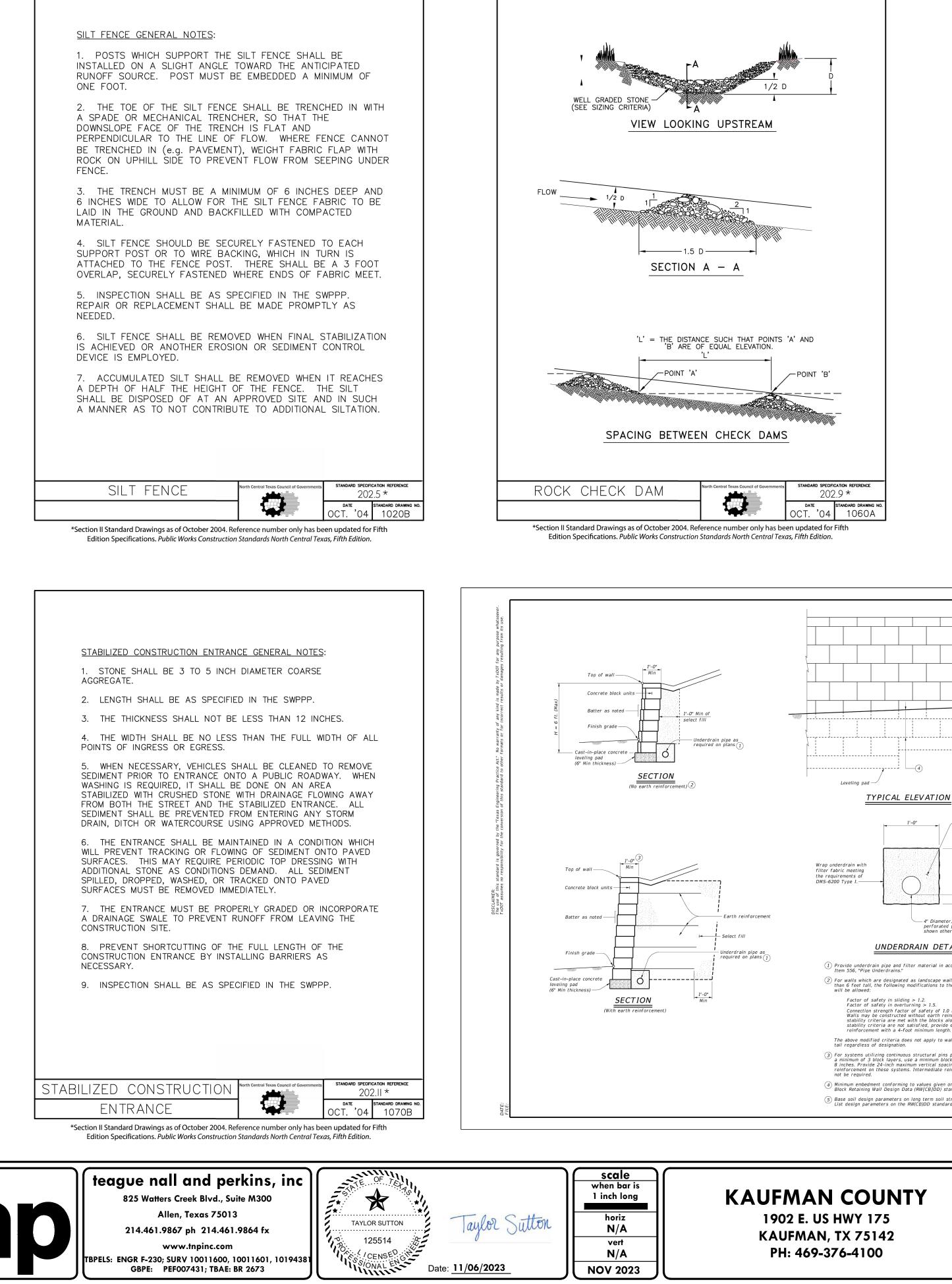
STABILIZED CONSTRUCTION

ENTRANCE

STABILIZATION AND STREET PAVED SURFACE

FROM LEAVING SITE

- EXISTING GRADE

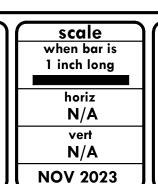


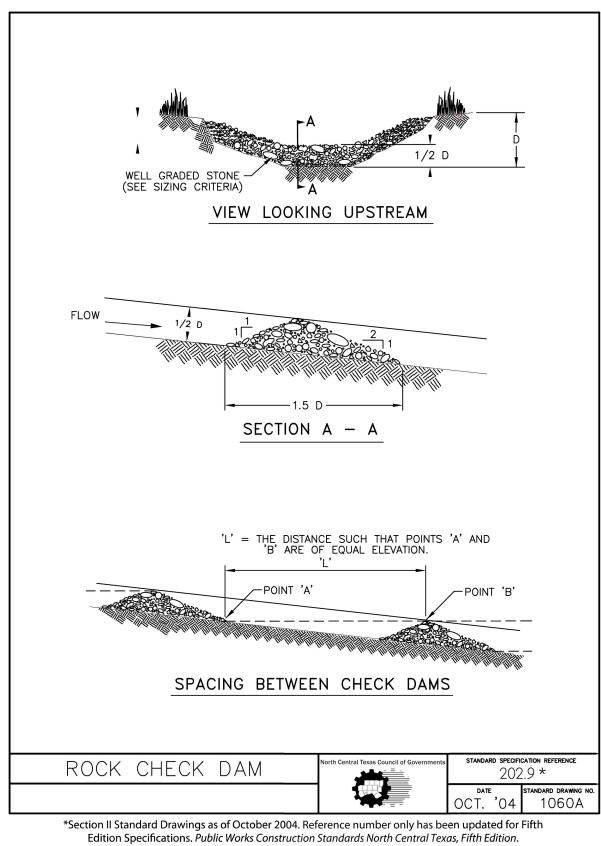
\*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth revision

		OCT.	<sup>′</sup> 04	1020B	
gs as of October 2004. Ref	ference number only has be	en upda	ted for	Fifth	
Dublic Warks Construction	Chandanda Nouth Contral Tou	an Fifth F	dition		

STRUCTION	North Central Texas Council of Governments	standard specifi 202	cation reference	
CE		OCT. '04	standard drawing no. 1070B	
rs as of October 2004. Deference number only bas been undeted for Fifth				

GBPE: PEF007431; TBAE: BR 2673





			<u> </u>
US 175	-		sheet 39
	-		tnp projec KFM2249
	CTXDOT         June 2022         CONT         SECT         J           REVISIONS	IDB HIGHWAY	
	RETAINING W RW(0	(ALL CB)	
	-	ion Standard	
& DS			
Type AS,BS 10	SELECT BACKFILL UNIT WEIGHT t Weight Internal Stability External Stabi	ility	
	only. Determine specific geometry based on wall layouts information. Limit wall batter to a maximum of 3 inches per foot u shown in the plans. Place blocks horizontally and provid	and other plan nless otherwise e a positive	
	reinforcement when the spacing between primary layers the horizontal depth of the concrete block unit. Provide intermediate reinforcement length of 4 feet to provide I the concrete block units. ③ Extend select backfill (including unit fill) a minimum of	exceeds twice a minimum local stability for f 1 foot	
olans.)	reinforcement from test data evaluated at ¾' strain. Space the primary earth reinforcement layers at a ma spacing of 40 inches. ③ The minimum length of primary earth reinforcement fo (non-landscaped) is 8 feet or 70% of the wall height, mu front of the blocks as shown on the Concrete Block Ret Data (RW(CB)DD) standard.(2)	iximum vertical or structural walls easured from the aining Wall Design	
I, Type C	Evaluating Geogrid Pullout." Provide connection strength data for the combination of and geogrid chosen. Limit the allowable connection load strength developed at $\frac{3}{4}$ " displacement, divided by a 1.5 Assume the failure plane originates at the back of the for internal stability calculations. Determine the factor of safety against pullout of the	of concrete block to the connection safety factor. e concrete blocks	
l i	middle third of the retaining wall. EARTH REINFORCEMENT: Calculate the long term design strength (LTDS) of eart in accordance with current AASHTO Standard Specificati Bridges and Interim Specifications. Determine soil-geogrid pullout coofficient values in ac	th reinforcement ons for Highway cordance with	
	$Dase of the structure       Overturning Factor of Safety \ge 2. Design the wall such that the base pressure resultant  $	0	
Finished grade	Cement Stabilized Select BackfillUnit Weight = 125 pc $\varphi = 45^{\circ}$ C = 0 psfStability Criteria: Base design on the following factors of safety:2Sliding along the1	f.	
	Retained Soli $\phi = (5)$ $C = 0$ psf       Foundation Soil $\phi = (5)$ $C = 0$ psf       Solart Backfill     Unit Weight = See Tab	le (6)	
	unless stated elsewhere in the plans:		
_	-	-	
ROCK CHECK	DAM North Central Texas Council of Government	ments STANDARD SPECIFICATION REFERENCE 202.9 * DATE STANDARD DRAWING NO. OCT. '04 1060B	
ANOTHER EROSION EMPLOYED, THE CH	OR SEDIMENT CONTROL DEVI HECK DAM AND ACCUMULATED	CE IS D SILT SHALL	
THE HEIGHT OF TH IS LESS, THE SILT PROPERLY.	IE CHECK DAM OR ONE FOOT, SHALL BE REMOVED AND DIS	, WHICHEVER GPOSED OF	
STRUCTURE CEASES ACCUMULATION AM CONSTRUCTION TRA	S TO FUNCTION AS INTENDED IONG THE ROCKS, WASHOUT, AFFIC DAMAGE, ETC.	DUE TO SILT	
FLOWS. 2. THE CHECK DA	AM SHALL BE INSPECTED AS	SPECIFIED IN	
1. STONE SHALL E	BE WELL GRADED WITH SIZE I		
	1. STONE SHALL 1½ TO 3½ INCHES FLOWS. 2. THE CHECK DA THE SWPPP AND S STRUCTURE CEASE ACCUMULATION TRA- 3. WHEN SILT REA THE HEIGHT OF TH IS LESS, THE SILT PROPERLY. 4. WHEN THE SILT FINISHED STATES FINISHED STATES FINISH	<text></text>	<list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item>

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