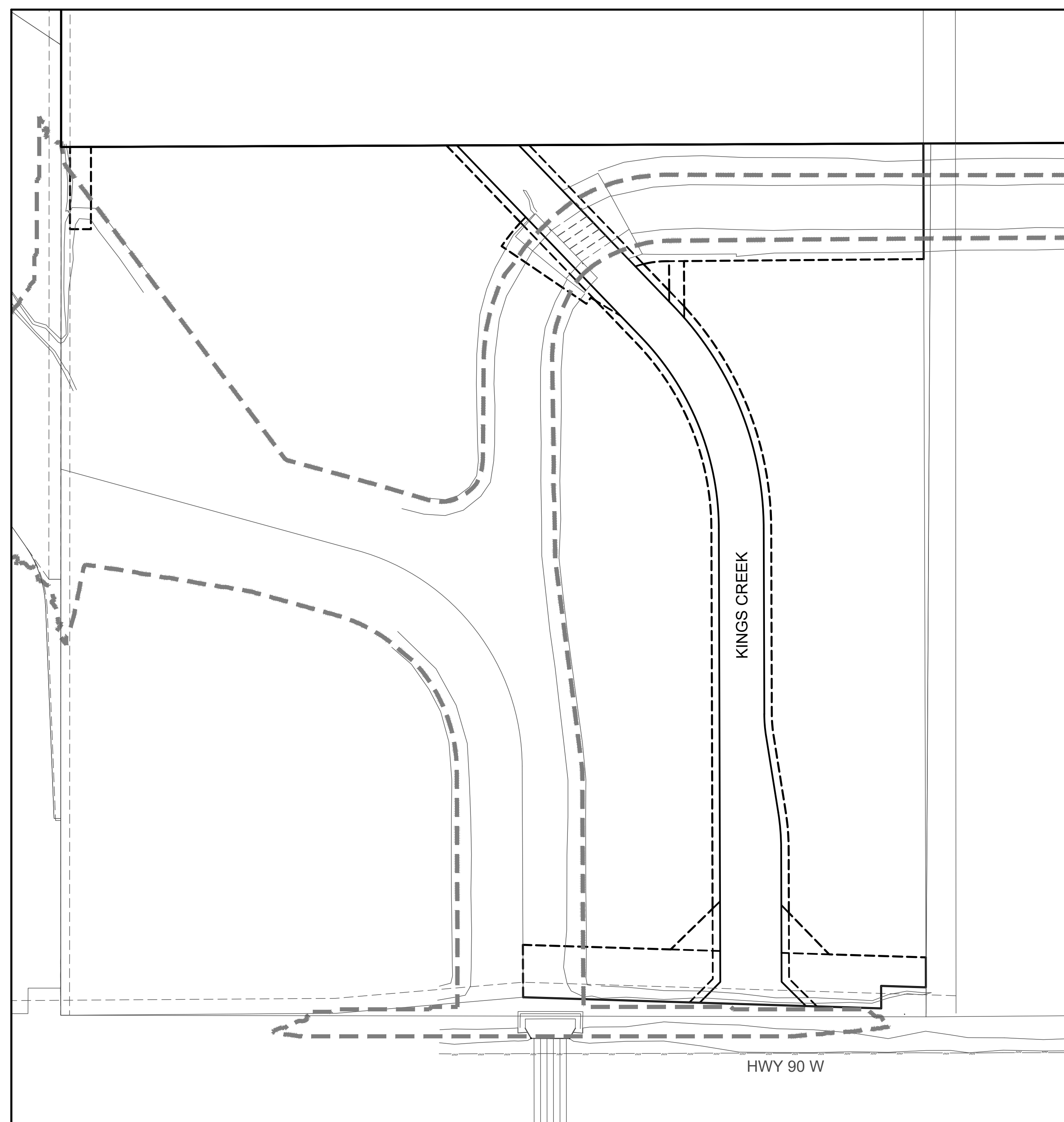




INDEX MAP

1"=100



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519	SIGN DETAILS
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521	SIGN DETAILS
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601	SEDIMENT & EROSION CONTROL PLAN
602	SEDIMENT & EROSION CONTROL NOTES & DETAILS
603	SEDIMENT & EROSION CONTROL NOTES & DETAILS

OWNER/DEVELOPER:

KF FLAT CREEK, L.P.
2722 W. BITTERS, RD. SUITE 106
SAN ANTONIO, TEXAS 78259
(210) 882-6800



PREPARED BY:

KCI TECHNOLOGIES, INC.

2806 W. BITTERS, RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65

FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
CONSTRUCTION COVER

KCI TECHNOLOGIES, INC.

306 W. BITTERS RD, SUITE 218

PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65



DRAFTING: G.P./A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.F.
SUBMITTAL PHASE:	
DATE:	03/20/2011
KCI JOB #:	76230822
SHEET:	

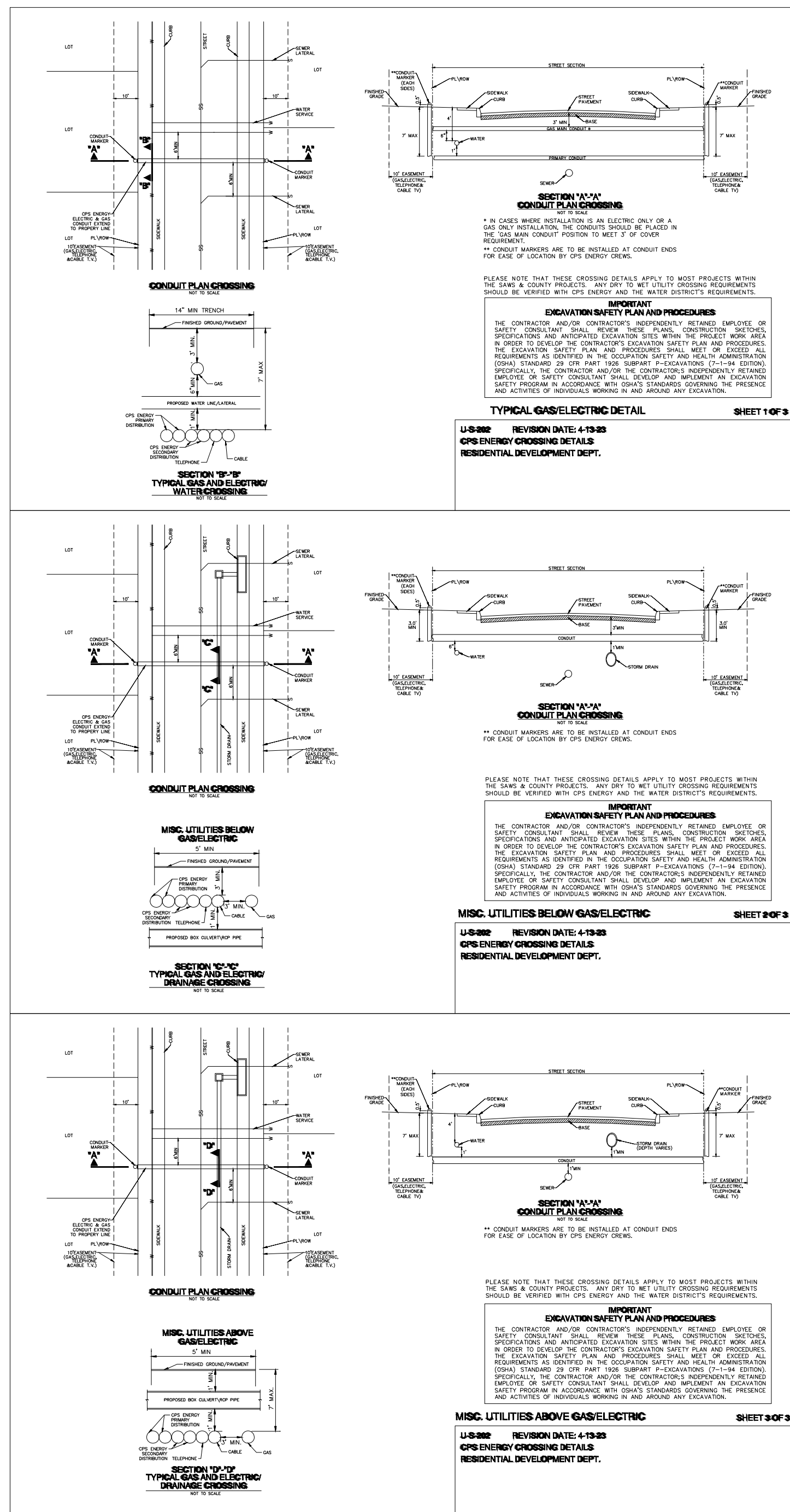
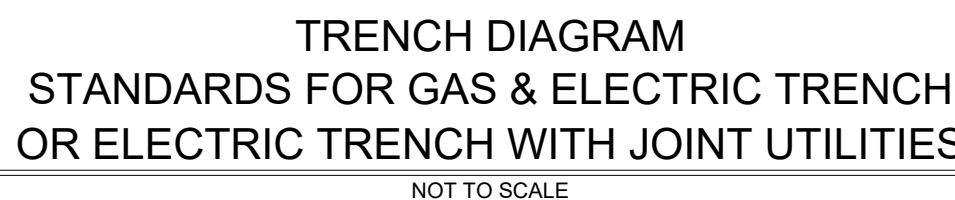
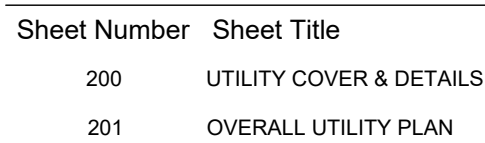
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PHONE: (210) 641-9999
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EXISTING EDGE OF PAVEMENT	----	////	----	////
EXISTING SANITARY SEWER MAIN	----		E87/12" SS	
PROPOSED SANITARY SEWER MAIN	----		P87/12" SS	
EXISTING WATER MAIN	----	----	E87/16" PVC	----
PROPOSED WATER MAIN	----	----	P87/12" PVC	----
PROPOSED STREET LIGHT (100 WATT/SINGLE ARM)	----			
PVC CONDUIT	----	----		

1. P.V.C. WILL BE REQUIRED FOR CITY OF CASTROVILLE UTILITY CROSSINGS "WHEN DRAIN OR STREET CONSTRUCTION PRECEDES UTILITY CONSTRUCTION". CONTRACT ENGINEER PRIOR TO CONSTRUCTION FOR APPROVAL.
2. 4" P.V.C. SCHEDULE 40 WILL BE REQUIRED FOR UNDERGROUND TELEPHONE AND CABLE T.V. IF ABOVE APPLIES.
3. CITY OF CASTROVILLE TO HAVE A 5' WIDE ELECTRIC EASEMENT ON ALL ROAD CROSSINGS IN WHICH ELECTRIC LINES ARE PLACED.
4. ALL UTILITY EASEMENTS ARE FOR CONSTRUCTION, MAINTENANCE (INCLUDING BUT NOT LIMITED TO REMOVAL OF TREES AND OTHER OBSTRUCTIONS), READING OF METERS AND REPAIR OF ALL OVER-HEAD AND UNDERGROUND UTILITIES.
5. ALL CITY OF CASTROVILLE UTILITY CROSSINGS SHALL BE A MINIMUM OF 5' CLEAR FROM ALL OTHER CONDUITS/TRENCHES AT THE SAME LOCATION.

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ENGINEERING/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA FOR CONFORMANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS, AND SHALL ADVISE CONTRACTOR OF ANY DEFICIENCIES OR OMISSIONS PRIOR TO TRENCH EXCAVATION. CONTRACTOR SHALL IMPLEMENT THE SYSTEMS, PROGRAMS AND PROCEDURES AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH EXCAVATION SAFETY PLAN THAT ADDRESSES ALL ASPECTS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

[illegible]

SEAL:

FOR BIDDING
PURPOSES ONLY
NOT FOR CONSTRUCTION

KCI TECHNOLOGIES, INC.

2806 W. BITTERS RD, SUITE 218

FAX: (210) 641-6440

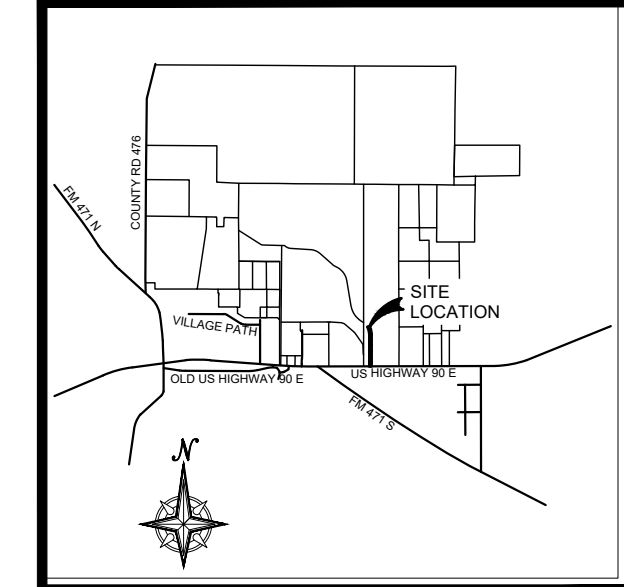


FLAT CREEK SUBDIVISION COMMERCIAL COLLECTOR

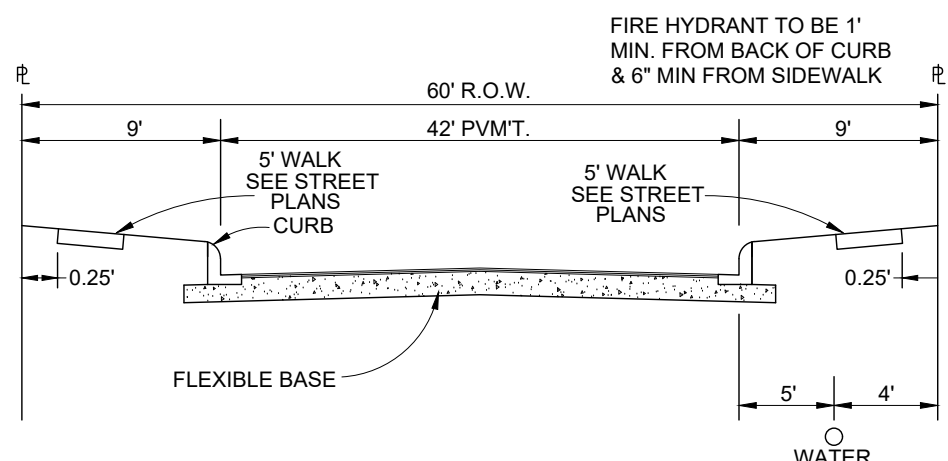
UTILITY COVER & DETAILS

DRAFTING: G.P./A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.P.
SUBMITTAL PHASE:	
DATE:	03/2024
KCI JOB #:	76230822
SHEET:	

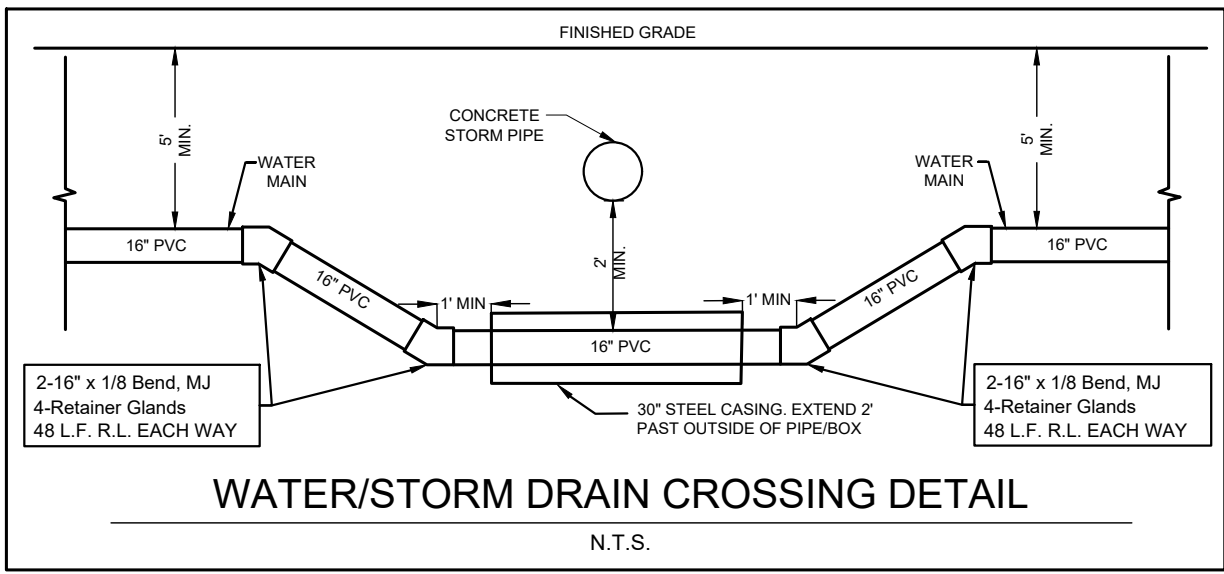
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LOCATION MAP

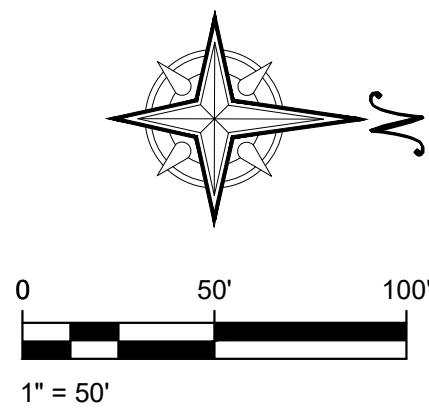


TYPICAL COLLECTOR STREET SECTION
NOT TO SCALE



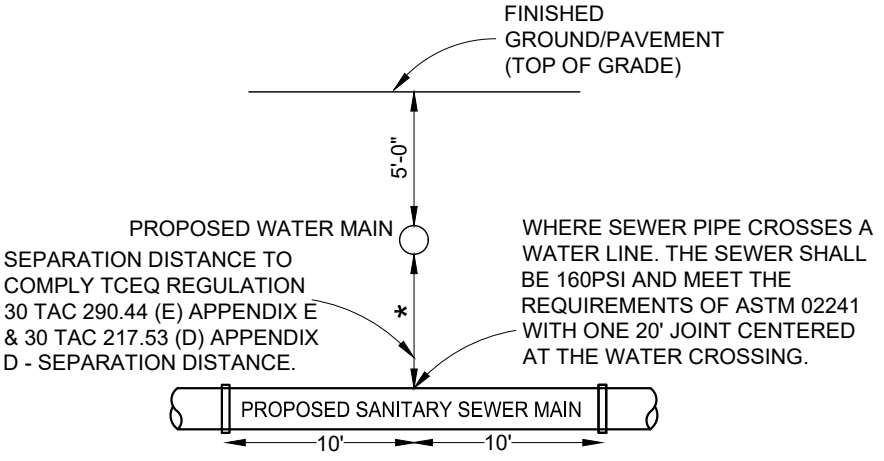
WATER/STORM DRAIN CROSSING DETAIL
N.T.S.

TRENCH EXCAVATION SAFETY PROTECTION
Contractor and/or contractor's independently retained employee or structural design/geotechnical/safety/equipment consultant, if any, shall, review these plans and available geotechnical information and the anticipated installation site(s) within the project work area in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures. The Contractor's implementation of the systems, programs and/or procedures shall provide for adequate trench excavation, safety protection that complies with as a minimum, OSHA standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA standards governing the presence and activities of individuals working in and around trench excavation.

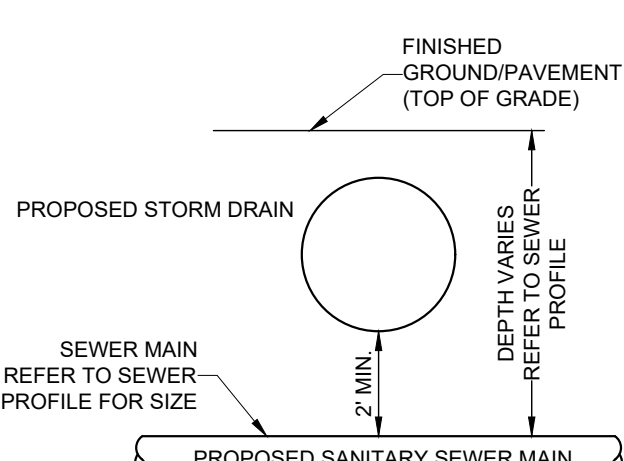


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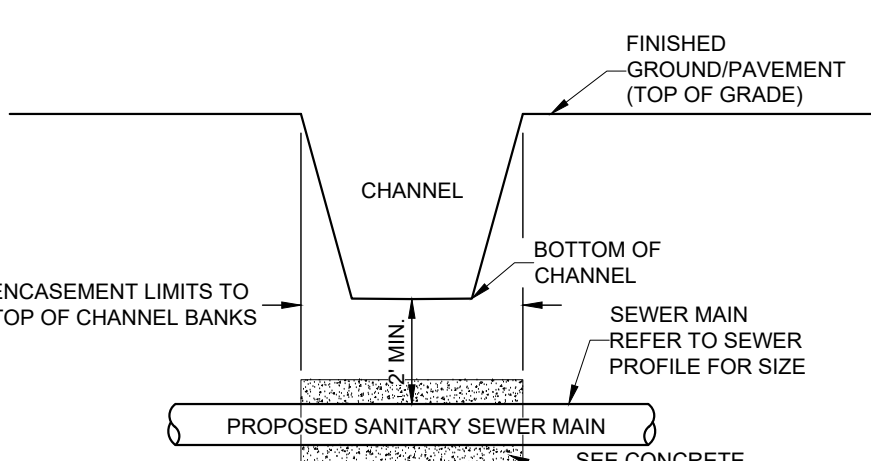
- EXISTING EDGE OF PAVEMENT
- EXISTING SANITARY SEWER MAIN
- PROPOSED SANITARY SEWER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- PROPOSED STREET LIGHT (100 WATT/SINGLE ARM)
- PVC CONDUIT



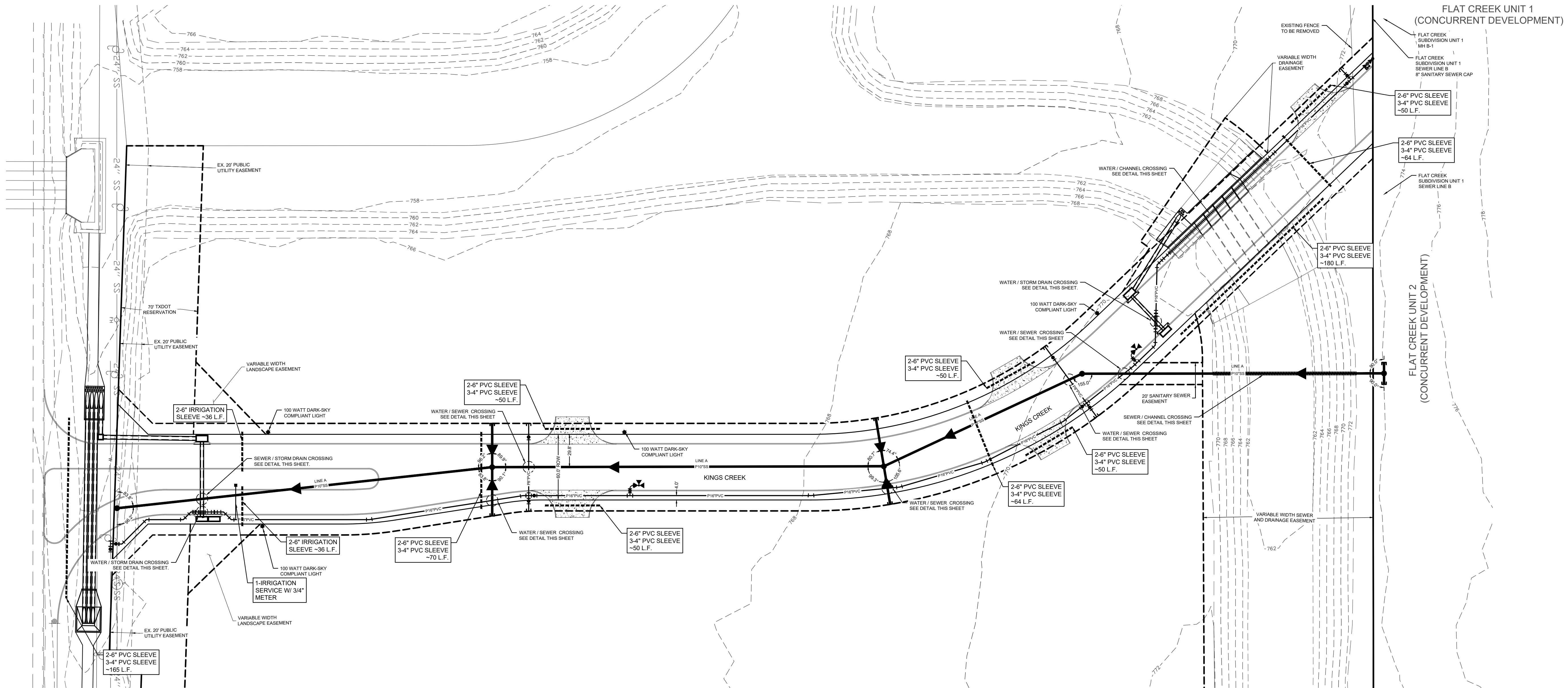
TYPICAL SANITARY SEWER/
WATER CROSSING DETAIL
NOT TO SCALE



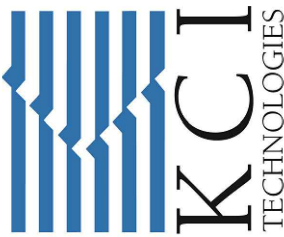
TYPICAL SANITARY SEWER/
STORM DRAIN CROSSING DETAIL
NOT TO SCALE



SANITARY SEWER/CHANNEL
CROSSING DETAIL
NOT TO SCALE



KCI TECHNOLOGIES, INC.



FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
OVERALL UTILITY PLAN

DRAFTING: G.P.A.M. CHECK: L.E.
DESIGN: L.E. CHECK: C.P.
SUBMITTAL PHASE:
DATE: 03/2024
KCI JOB #: 762308220
SHEET:

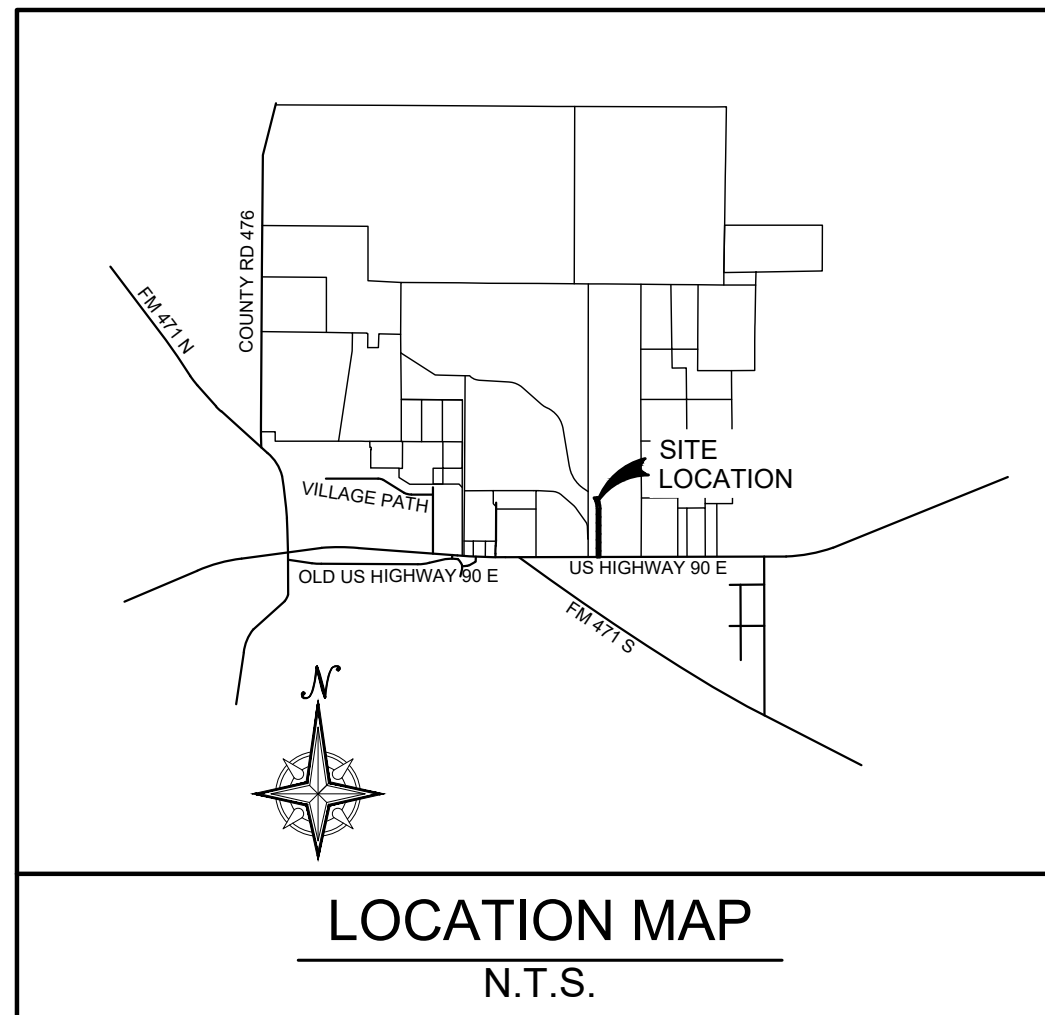
CITY OF CASTROVILLE SANITARY SEWER SYSTEM GENERAL NOTES

General Section Notes

- All materials and construction procedures within the scope of this contract shall be approved by the Castrolite Utility System and comply with the Plans, Specifications, General Conditions and with the following as applicable:
- A. Current Texas Commission on Environmental Quality (TCEQ) "Design Criteria for Domestic Wastewater System", Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217 and "Public Drinking Water TAC" Title 30 Part 1 Chapter 290.
 - B. Current TxDOT "Standard Specifications for Construction of Highways, Streets and Drainage".
 - C. Current "San Antonio Water System Standard Specifications for Water and Sanitary Sewer Construction".
 - D. Current City of San Antonio "Standard Specifications for Construction".
 - E. Current City of San Antonio "Utility Excavation Criteria Manual" (UECM).
2. The Contractor shall obtain the SAWS Standard Details from the SAWS website, http://www.saws.org/business_centers/docs. Unless otherwise noted within the design plans.
3. The Contractor is to notify and make arrangements with the Castrolite Utility System at 830-931-4070 (during regular working hours) and provide notification procedures the Contractor will use to notify affected home residents and/or property owners two (2) weeks prior to excavation.
4. Location and depth of existing utilities and service laterals shown on the plans are understood to be approximate. Actual locations and depths must be field verified by the Contractor prior to construction. It shall be the Contractor's responsibility to locate utility service lines as required for construction and to protect them during construction at no cost to Castrolite Utility System.
5. The Contractor shall verify the exact location of underground utilities and drainage structures prior to construction whether shown on plans or not. As-Built for Castrolite Utility System infrastructure can be obtained at website below. Contractor shall coordinate physical locations for Castrolite Utility System infrastructure thru the Castrolite Utility System Inspector. Please allow up to 7 business days for business days for locations requesting pipe location markers on Castrolite Utility System facilities. The following contact information are supplied for verification purposes:
- Requested as-built:
 - City of Castrolite Drainage (830) 931-4070
 - City of Castrolite Traffic Signal Operations (830) 931-4070
 - Texas State Wide One Call Callcenter 1-800-545-6005 or 811
6. The Contractor shall be responsible for restoring existing fences, curbs, streets, driveways, sidewalks, landscaping and structures to its original or better condition if damages are made as a result of this project's construction.
7. Contractor shall not make use of dumpsters or waste bins that are intended to serve residents and/or businesses.
8. All work in Texas Department of Transportation (TxDOT) and/or Medina County right-of-way shall be done in accordance with respective construction specifications and permit.
9. The Contractor shall comply with City of Castrolite or other governing municipality's tree ordinances when excavating near trees.
10. All work within the 100-year Floodplain shall be done in accordance with Floodplain Determination Permit.
11. Any work completed without prior written authorization which is not included in these plans and specifications will not be compensated by the Castrolite Utility System.
12. Holiday Work: Contractors will not be allowed to perform work on Castrolite Utility System recognized holidays.
- Weekend Work: Contractors are required to submit request to the Castrolite Utility System Inspection Construction department by 12:00pm on the Wednesday prior to the weekend being requested. Request should be sent to _____.
- Any and all Castrolite Utility System work installed without weekend approval will be subject to be uncovered for proper inspection at no cost to Castrolite Utility System.
13. PRE-CON SITE VIDEO: Before the start of any construction. The site must be video recorded by the contractor with one copy submitted to Castrolite Utility System Inspections. A pre-site video will provide accurate documentation of the existing conditions (NSPI).
14. POWER POLE BRACING: Contractors should be advised that there are existing overhead utility poles along the project corridor. Contractors should be advised that the work areas in order to implement Contractor's implementation of the systems, programs and/or procedures shall provide for bracing, based on a determination made by utility pole owner. It is advisable for the Contractor to review the construction documents and visit the construction site to determine potential impacts.
15. CONSTRUCTION SEQUENCING: It is the Contractor's sole responsibility to schedule sequencing for removal and installation of existing and proposed Castrolite Utility System utilities in conjunction with general project construction. Sequence of construction activities shall be health and safety oriented to minimize the extent and duration of disturbance.
16. Contractor shall comply with applicable regulations including, but not limited to, those overseen by the U.S. Occupational Safety and Health Administration (OSHA). OSHA information and related materials may be obtained at <https://www.osha.gov> or at the OSHA San Antonio Office located at Fountainhead Tower, Suite 6020 W. Interstate 10 San Antonio, TX 78230 which is also reachable by phone at (214) 727-5240.
17. TRENCHEXCAVATION SAFETY PROTECTION: Contractor and Contractor's independently retained employee or structural design/geotechnical engineer/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation methods within the project work areas in order to implement Contractor's implementation of the systems, programs and/or procedures shall provide for adequate trench excavation safety protection that complies with, as a minimum, OSHA standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA standards governing the protection and activities of individuals working in and around trench excavation.

Sewer Note:

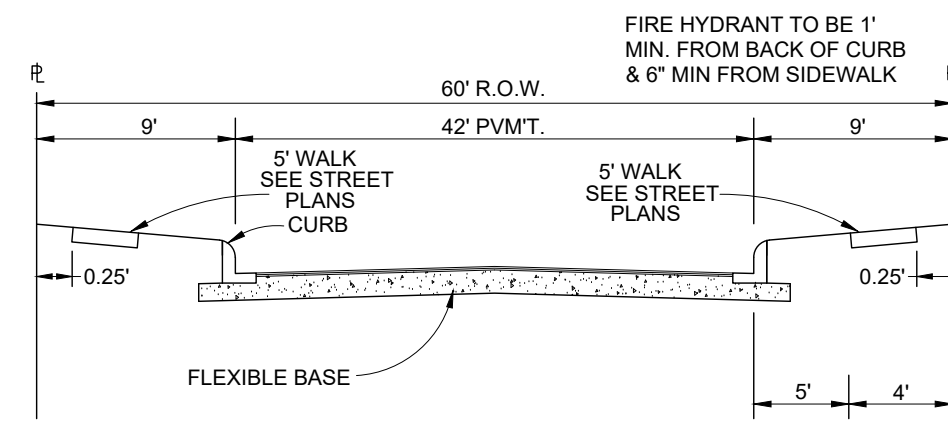
18. The Contractor is responsible for ensuring that no sanitary sewer overflow (SSO) occurs as a result of their work. All contractor personnel responsible for SSO prevention and control shall be trained on proper response. Should an SSO occur, the contractor shall:
- A. Identify the source of the SSO and notify Castrolville Utility System immediately at 830-891-4070. Provide the address of the spill and an estimated volume of flow.
 - B. Attempt to eliminate the source of the SSO.
 - C. Contain sewage from the SSO to the extent of preventing a possible contamination of waterways.
 - D. Clean up spill site (return contained sewage to the collection system if possible) and properly dispose of contaminated materials.
 - E. Clean the affected sewer mains and remove any debris.
 - F. Meet all post-SSO requirements as per the EPA Consent Decree, including line cleaning and relieving the affected sewer mains (at Castrolville Utility System direction) within 24 hours.
- Should the Contractor fail to address an SSO immediately and to SAVS satisfaction, they will be responsible for all costs incurred by Castrolville Utility System, including any fines from EPA.
- No separate measurement or payment shall be made for this work. All work shall be done according to guidelines set by the TCEQ and SAVS.
19. The Contractor shall provide bypass pumping equipment for sewage around each segment of pipe to be replaced, in accordance with SAVS Standard Specification Item No. 865, "Bypass Pumping Small Diameter Sanitary Sewer Main" and Standard Specification Item No. 864, "Bypass Pumping Large Diameter Sanitary Sewer Main" as applicable. Payment for such work will be under the appropriate bid item associated with Sanitary Sewer Bypass Pumping in accordance with SAVS Standard Specifications 865 and 864.
20. Prior to tie-ins, any shutdowns of existing force mains of any size must be coordinated with the Castrolville Utility System Construction Inspection Division. The Contractor shall coordinate with the Construction Division at least two weeks or more in advance of the shutdown. The Contractor shall also provide a sequence of work as related to the tie-ins; this is in addition to the work to be done by the Contractor to sequence the work accordingly.
21. **ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY!** It shall be the responsibility of the Contractor to make allowances and adjustments for top of manholes to match the finished grade of the project's improvements (NSPI).
22. **MANHOLE REMOVAL.** Where existing manholes are to be replaced by the contractor, the existing manholes shall be removed. (NSPI)
23. **MANHOLE IN PAYMENT -** Shall receive concrete encasement per the standard details.



LOCATION MAP
N.T.S.

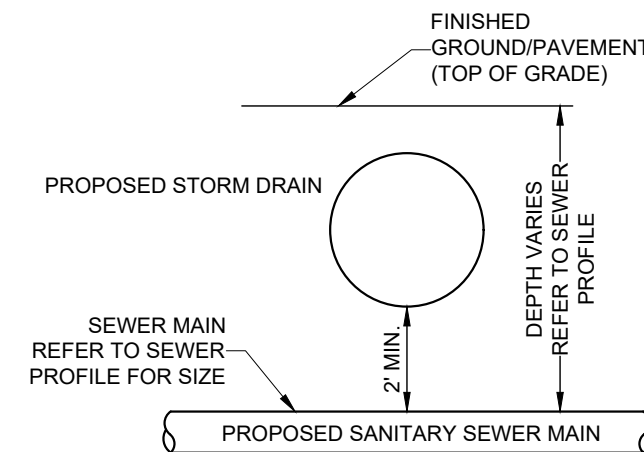
Sheet List Table

Sheet Number	Sheet Title
300	SANITARY SEWER COVER
301	SANITARY SEWER LINE A PLAN & PROFILE
302	SANITARY SEWER DETAILS

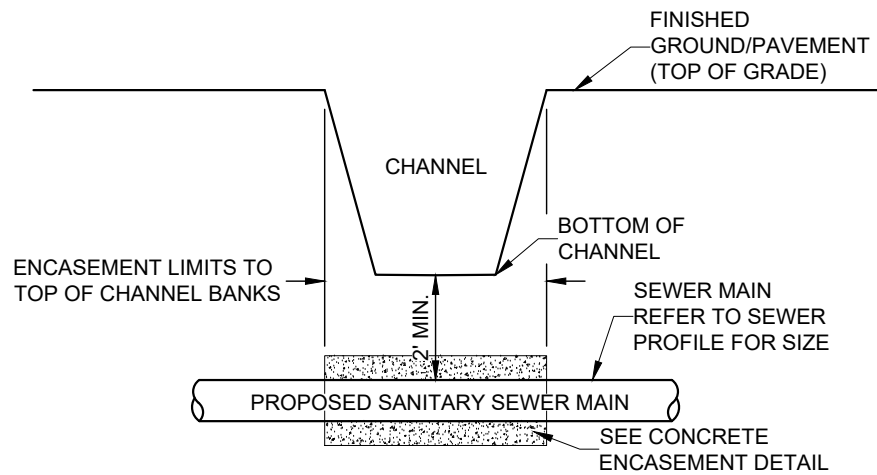


TYPICAL COLLECTOR STREET SECTION

NOT TO SCALE



TYPICAL SANITARY SEWER/
STORM DRAIN CROSSING DETAIL



SANITARY SEWER/CHANNEL
CROSSING DETAIL

OWNER/DEVELOPER:

KF FLAT CREEK, L.P.
2722 W. BITTERS, RD. SUITE 106
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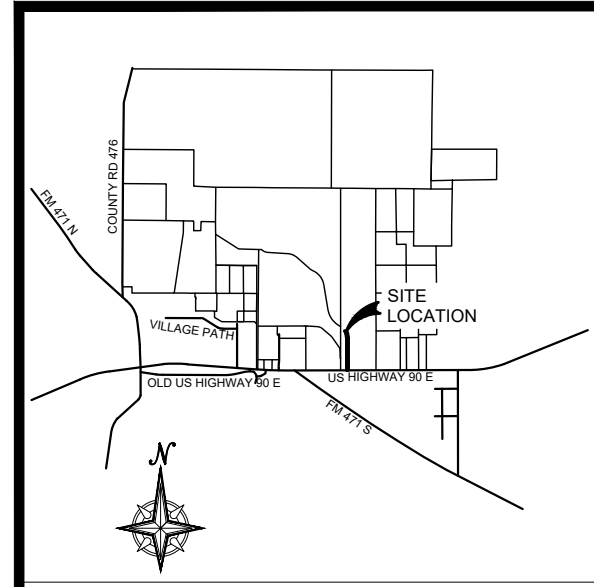
PREPARED BY:

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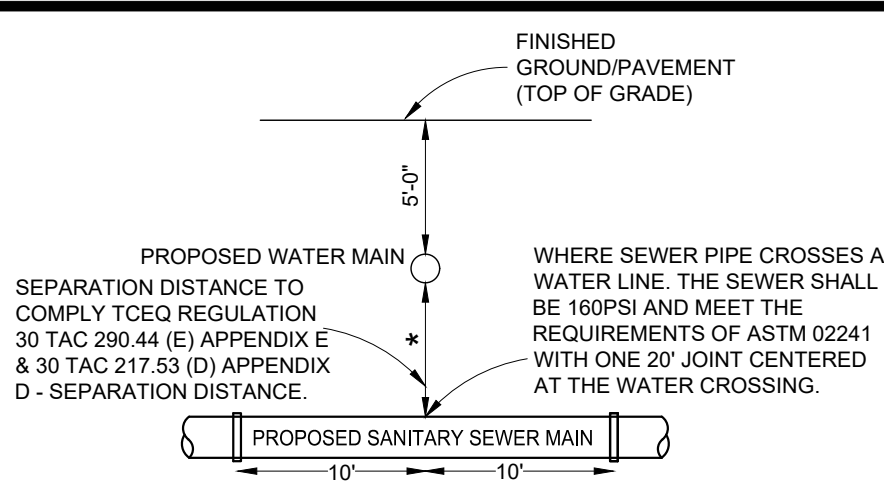
TRENCH EXCAVATION SAFETY PROTECTION

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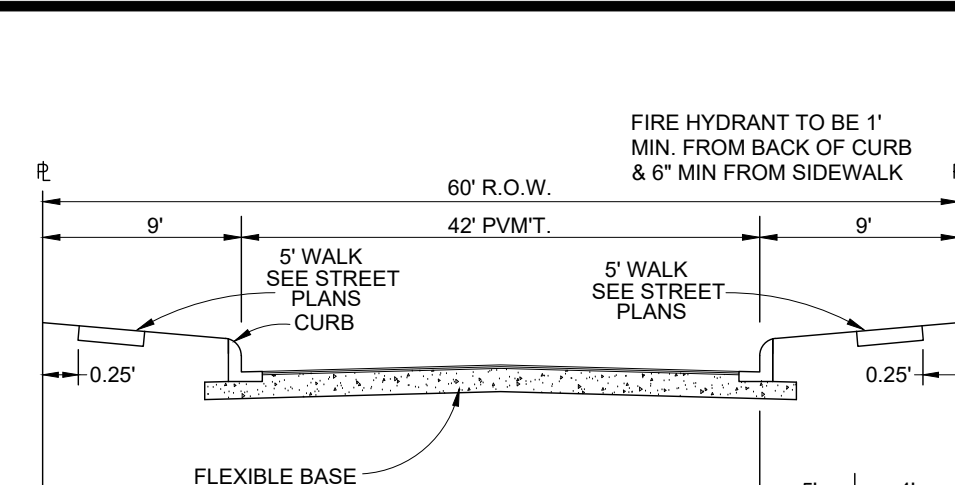


LOCATION MAP



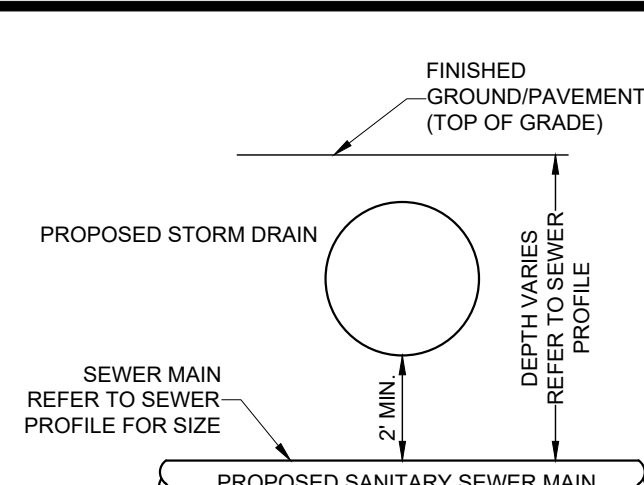
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WATER CROSSING DETAIL

NOT TO SCALE



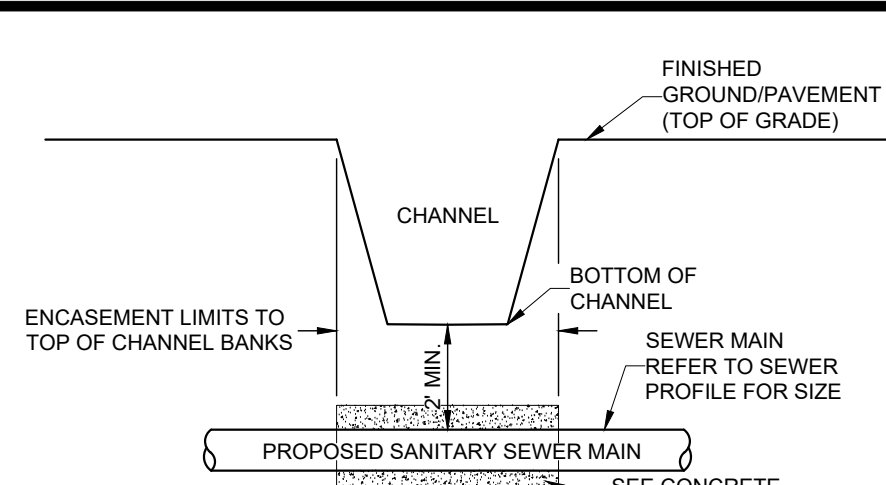
TYPICAL COLLECTOR STREET SECTION

NOT TO SCALE



TYPICAL SANITARY SEWER/
STORM DRAIN CROSSING DETAIL

NOT TO SCALE

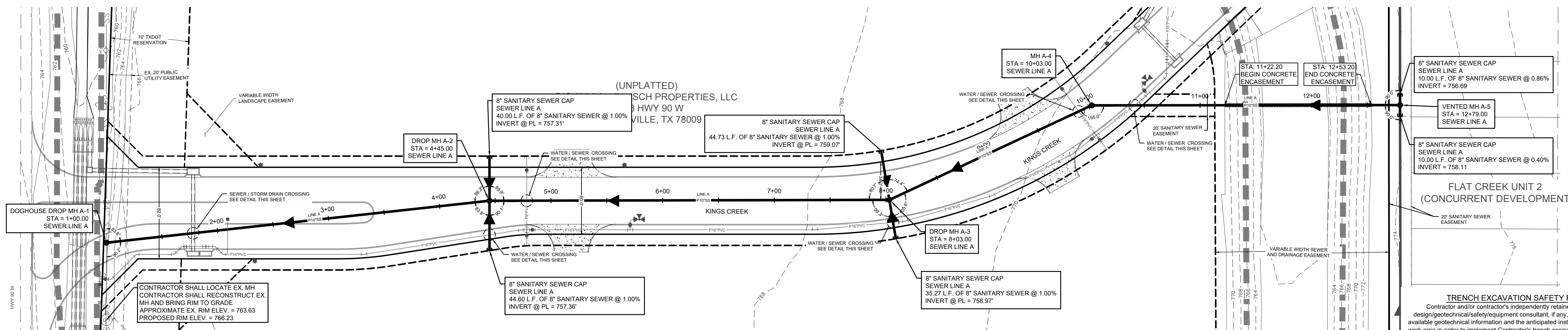
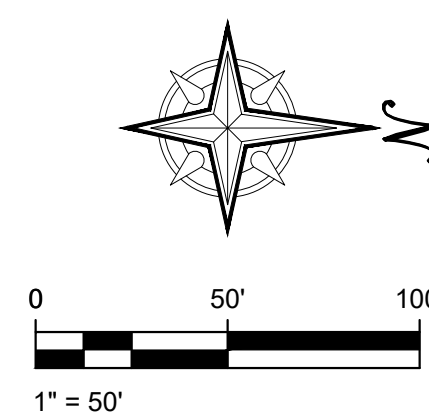


SANITARY SEWER/CHANNEL
CROSSING DETAIL

NOT TO SCALE

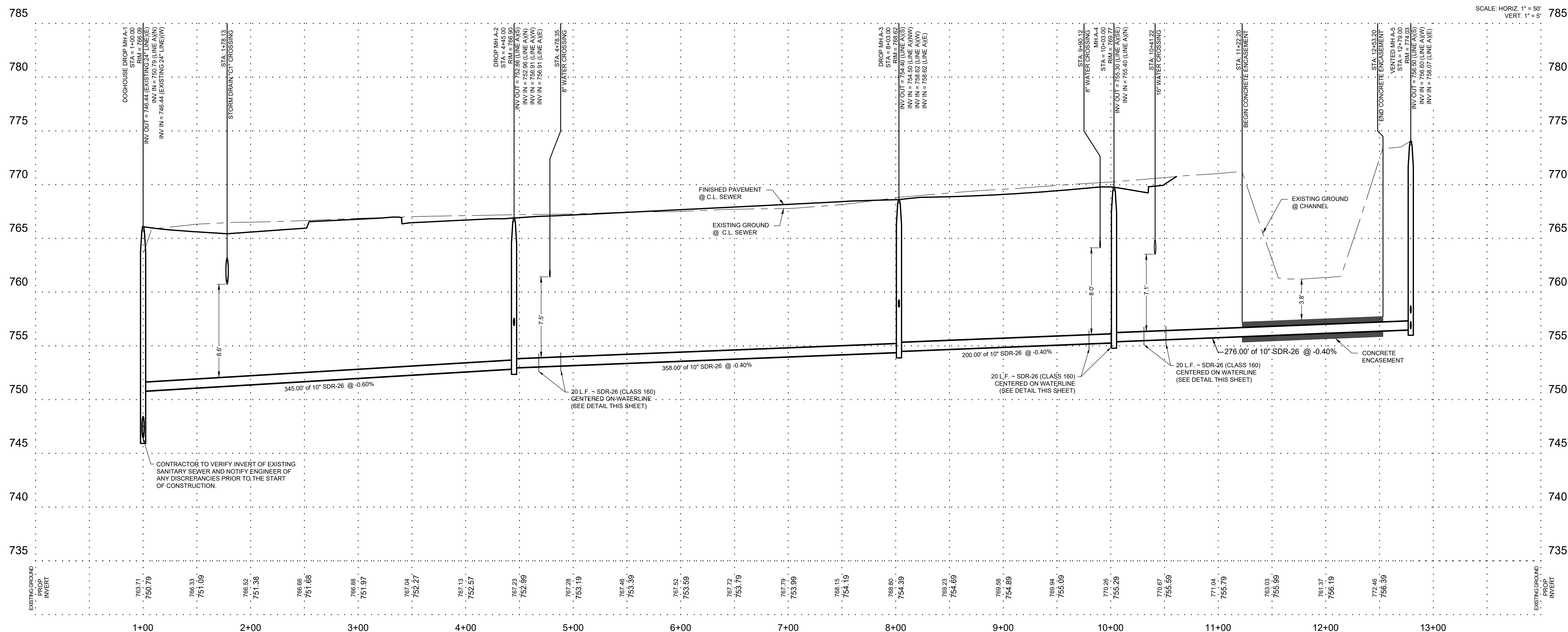
LEGEND

- EXISTING EDGE OF PAVEMENT
- EXISTING SANITARY SEWER MAIN
- PROPOSED SANITARY SEWER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- PROPOSED STREET LIGHT (100 WATT/SINGLE ARM)
- PVC CONDUIT



SANITARY SEWER LINE "A"

STA. 1+00.00 TO STA. 12+79.00

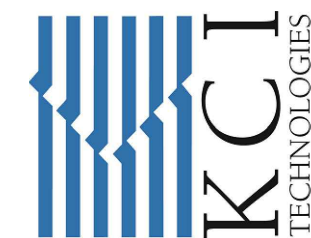


FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
SANITARY SEWER LINE A
PLAN & PROFILE

DRAFTING: G.P.A.M. CHECK: L.F.
DESIGN: L.E. CHECK: C.P.
SUBMITTAL PHASE:
DATE: 03/20/24
KCI JOB #: 762308220
SHEET:

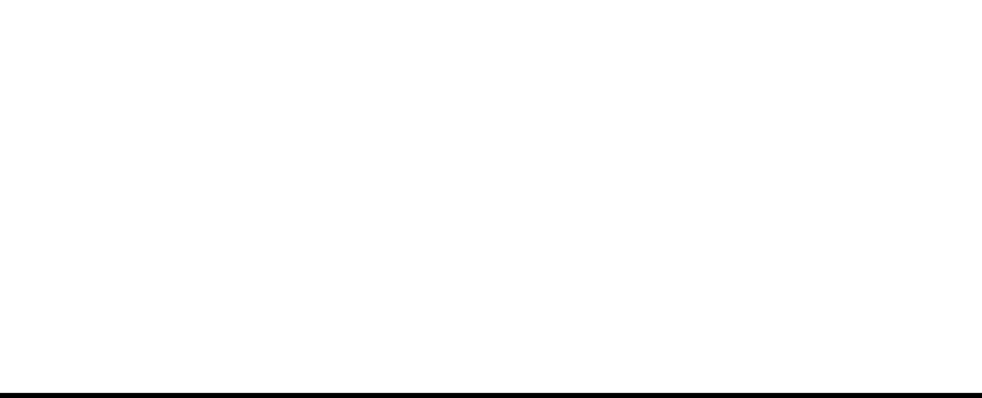
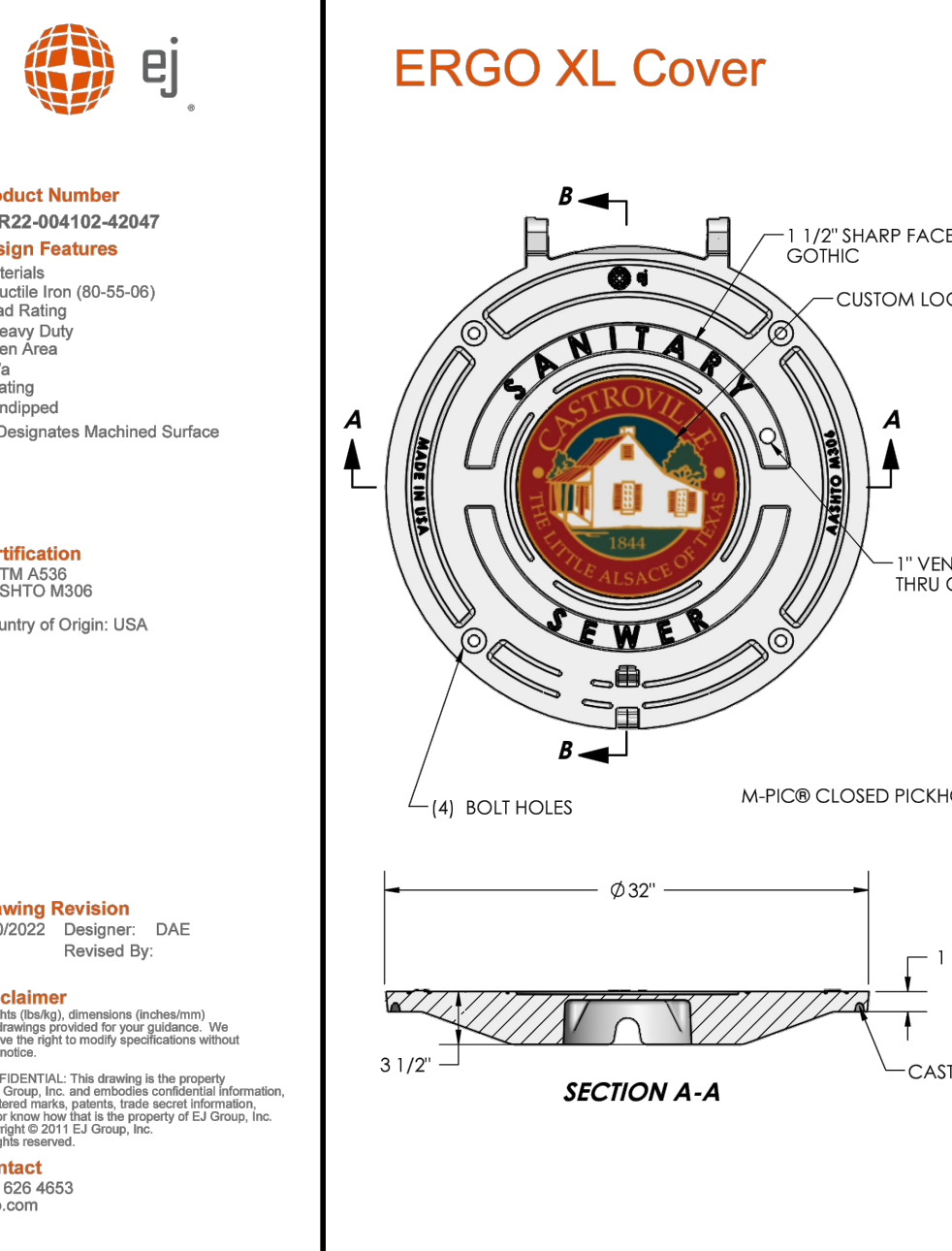
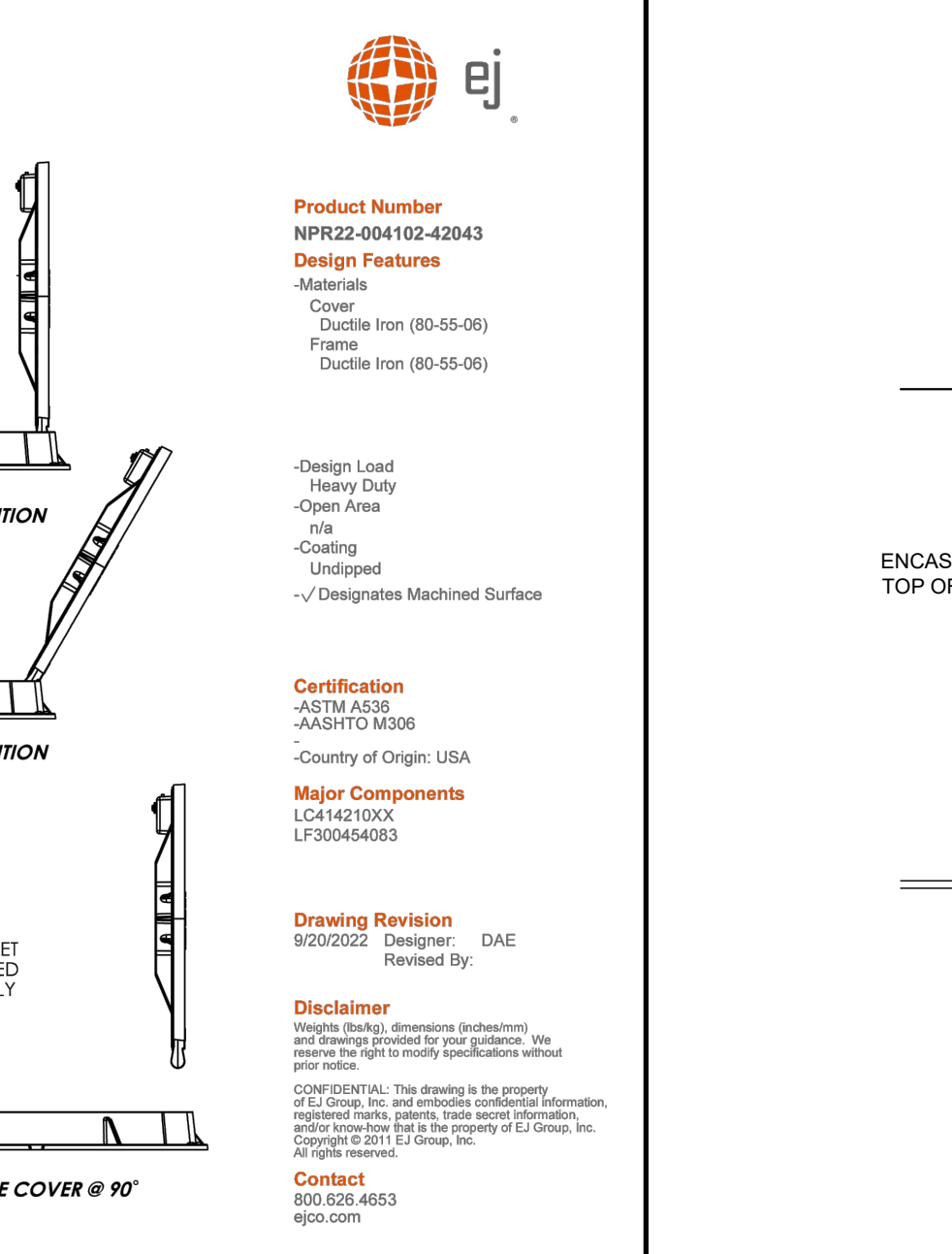
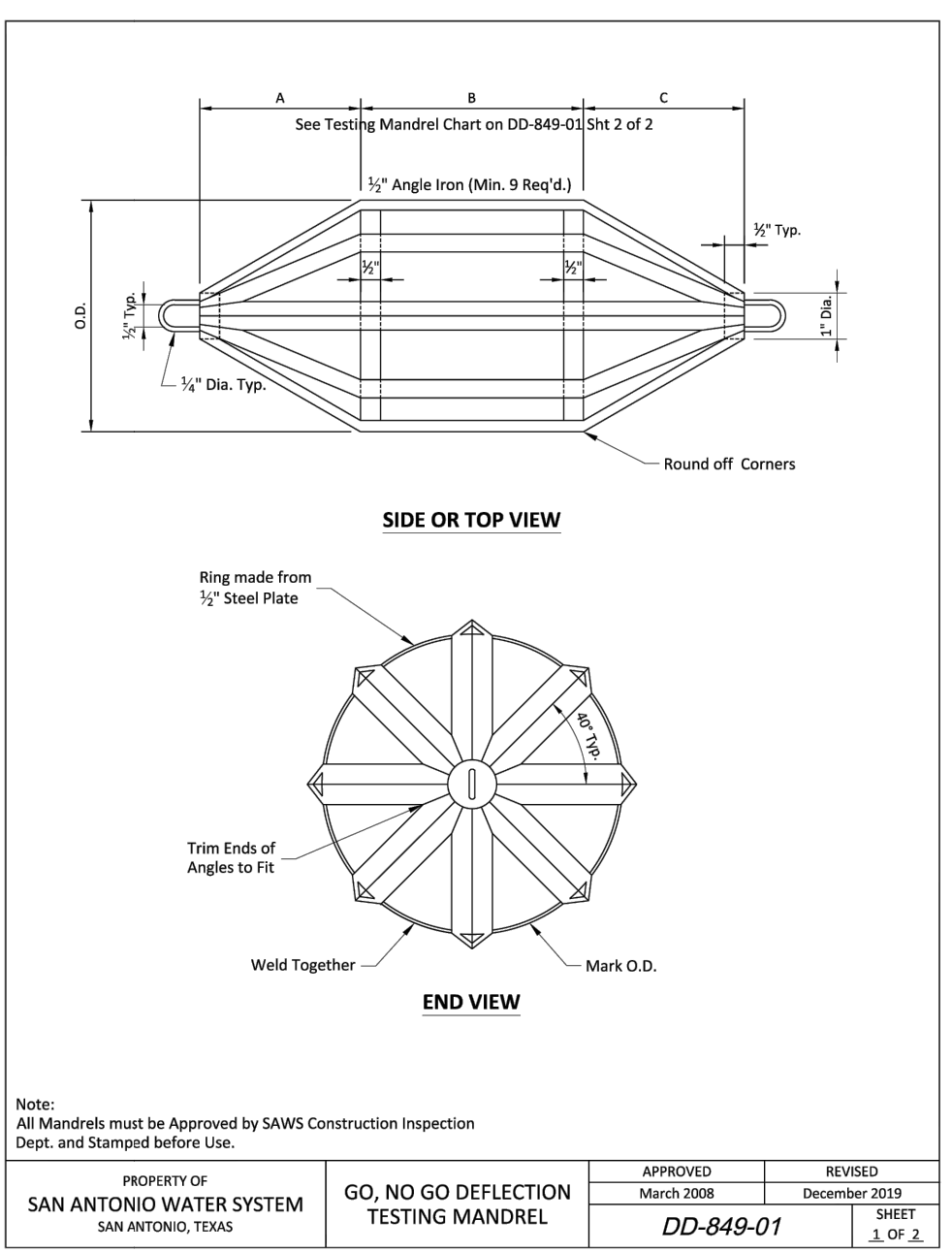
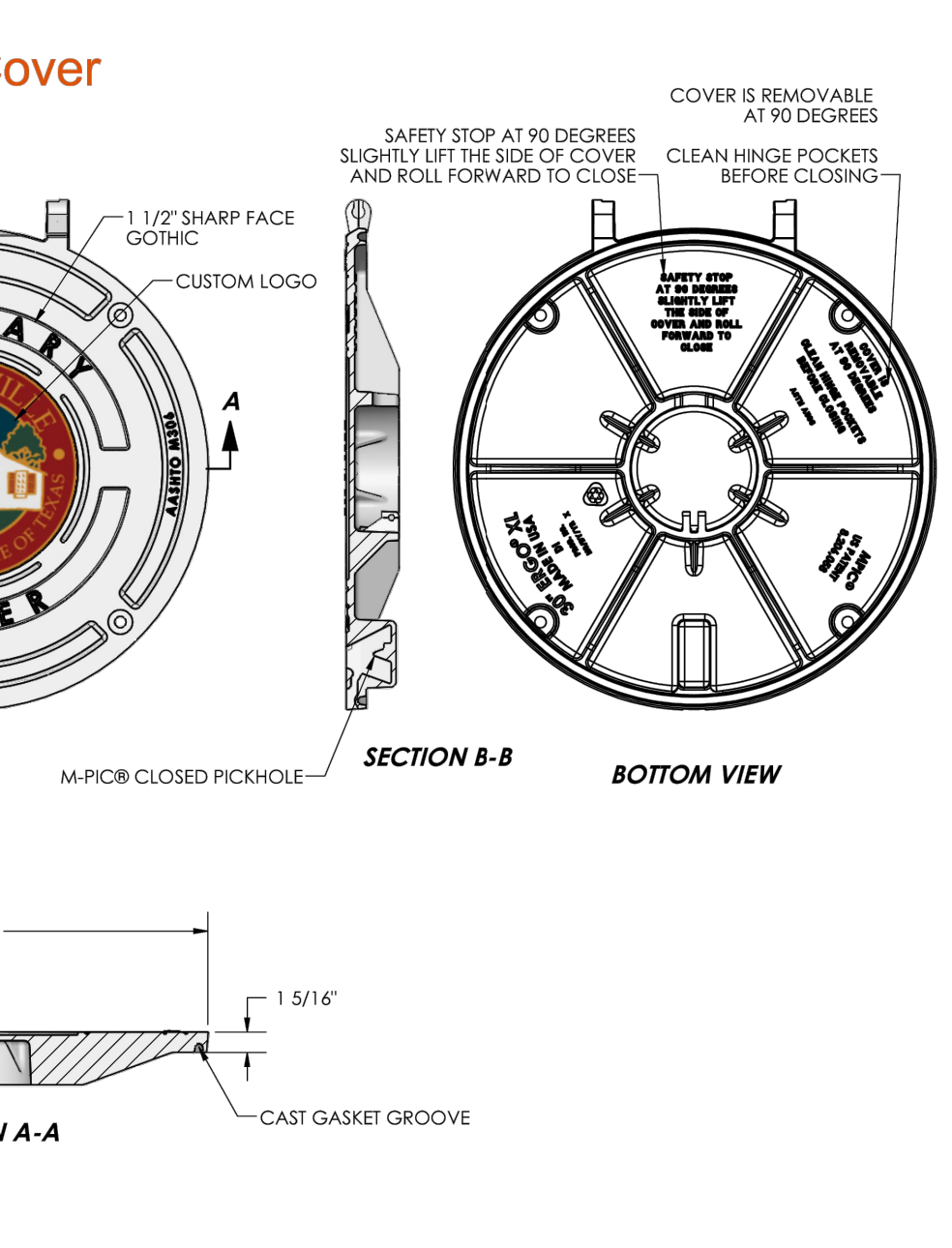
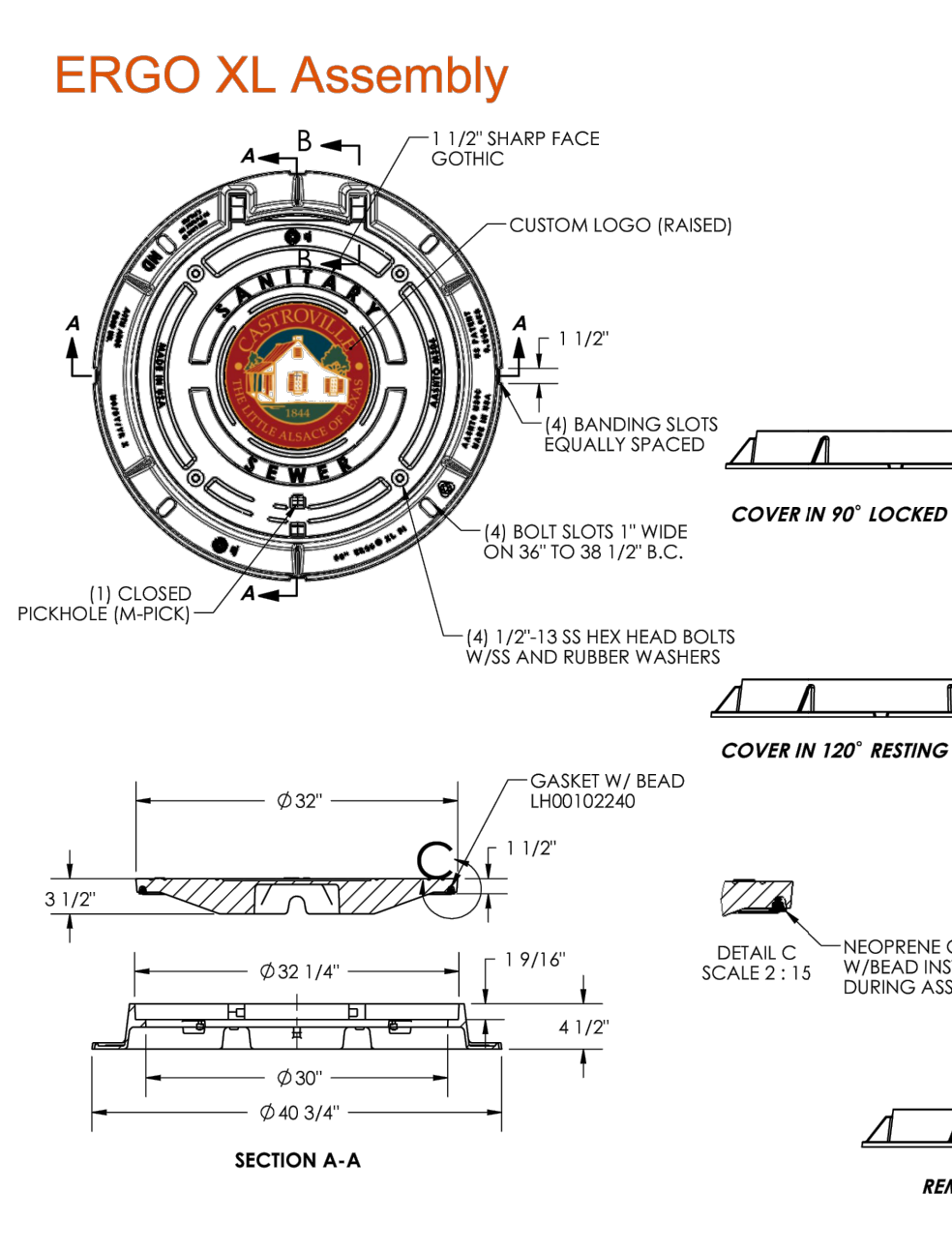
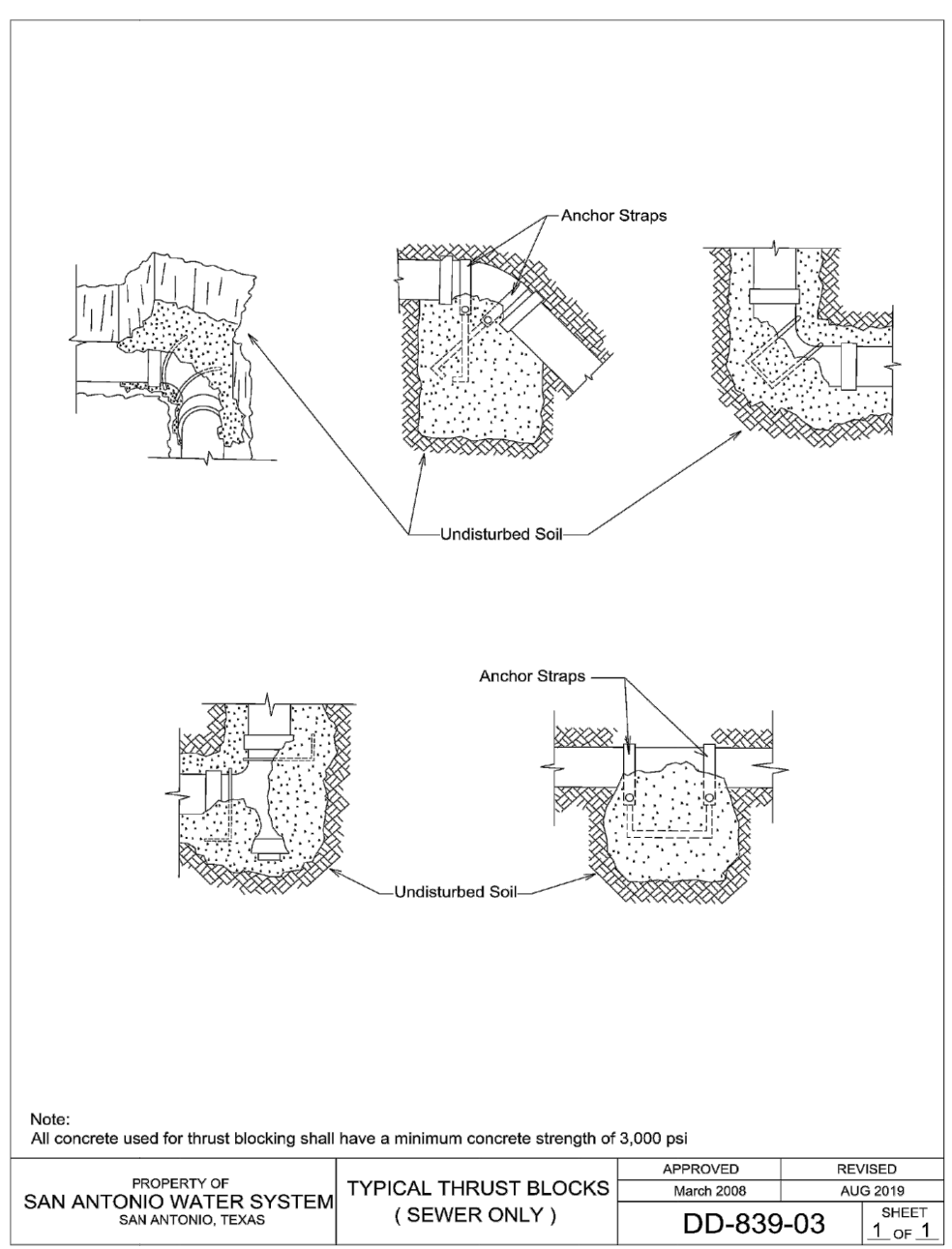
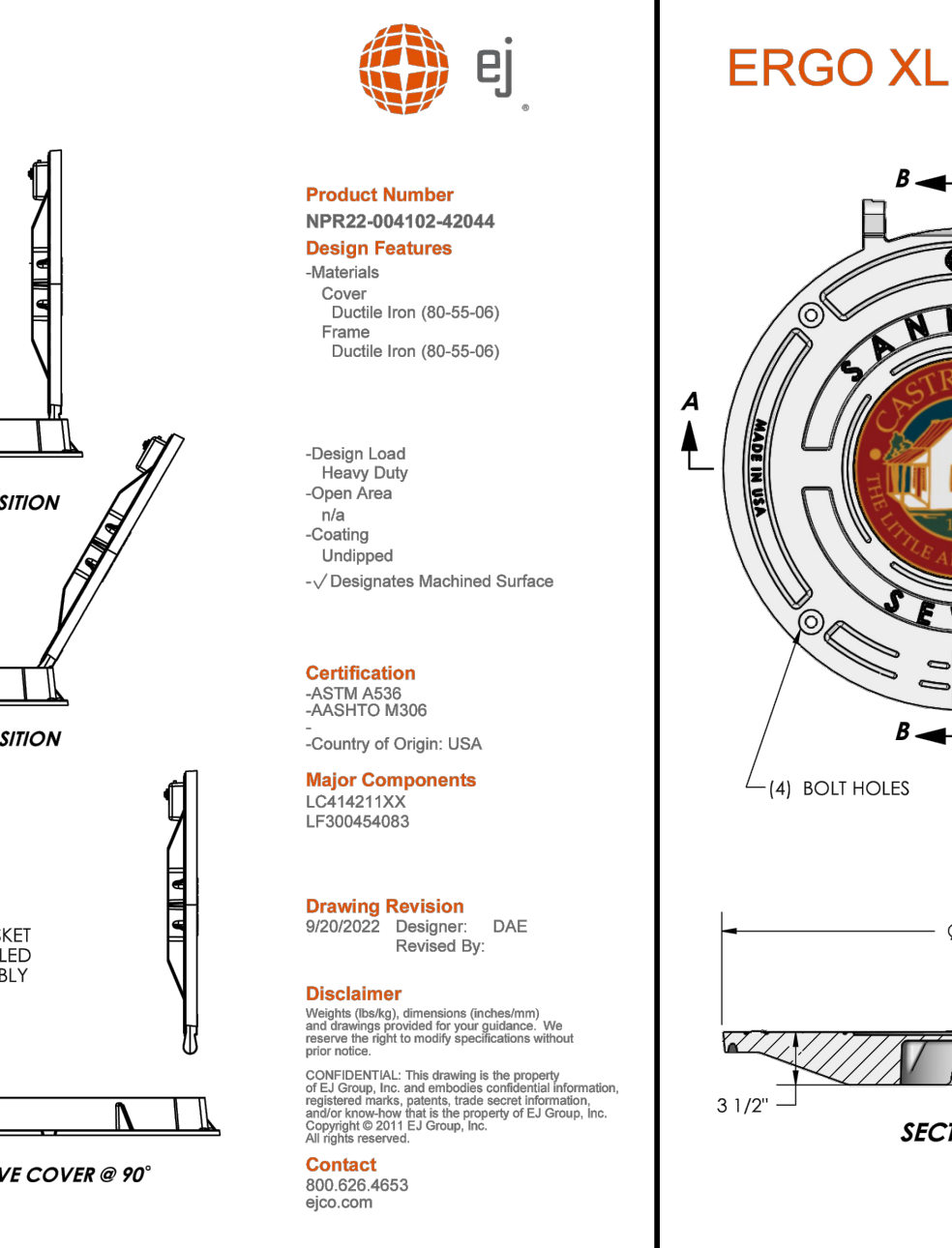
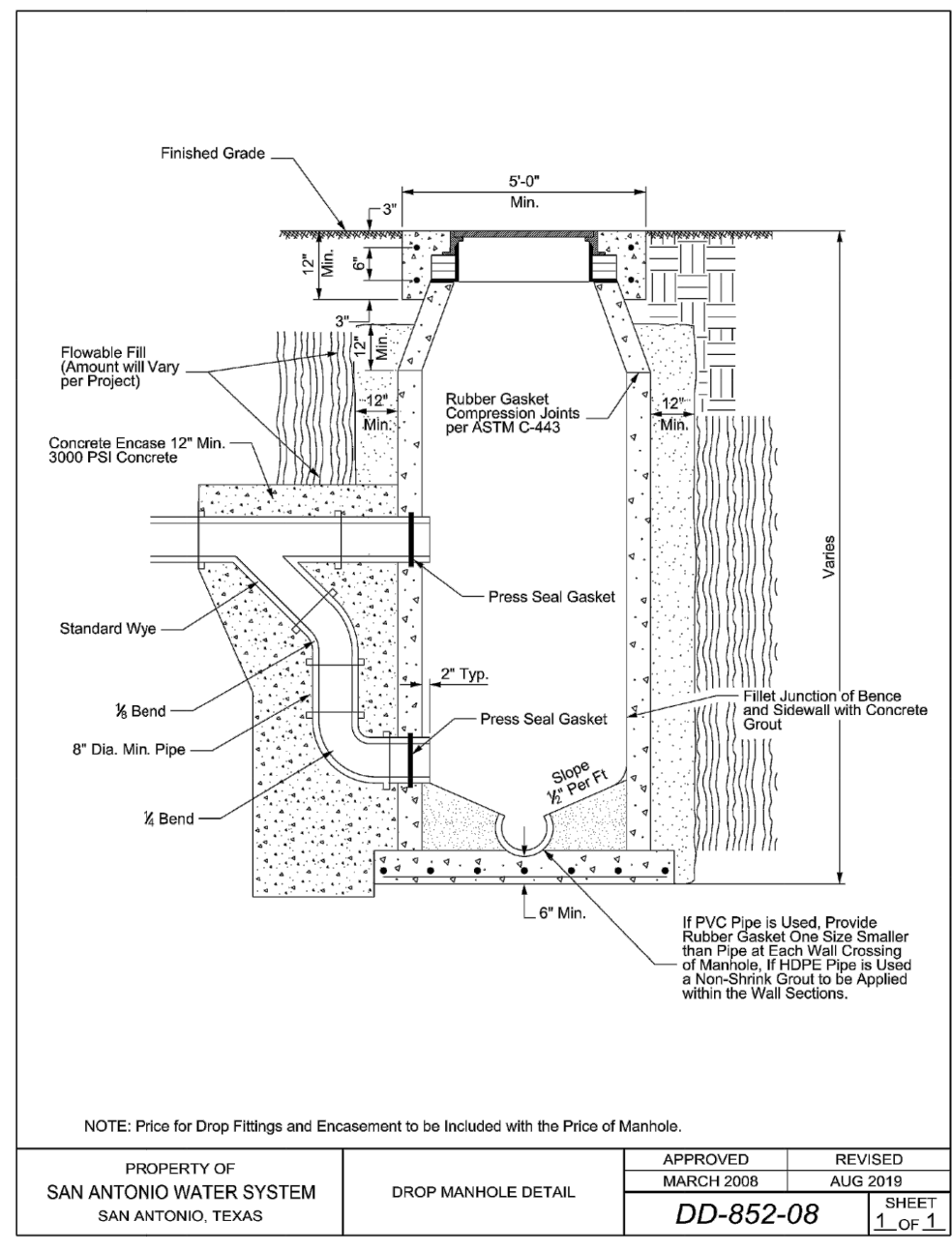
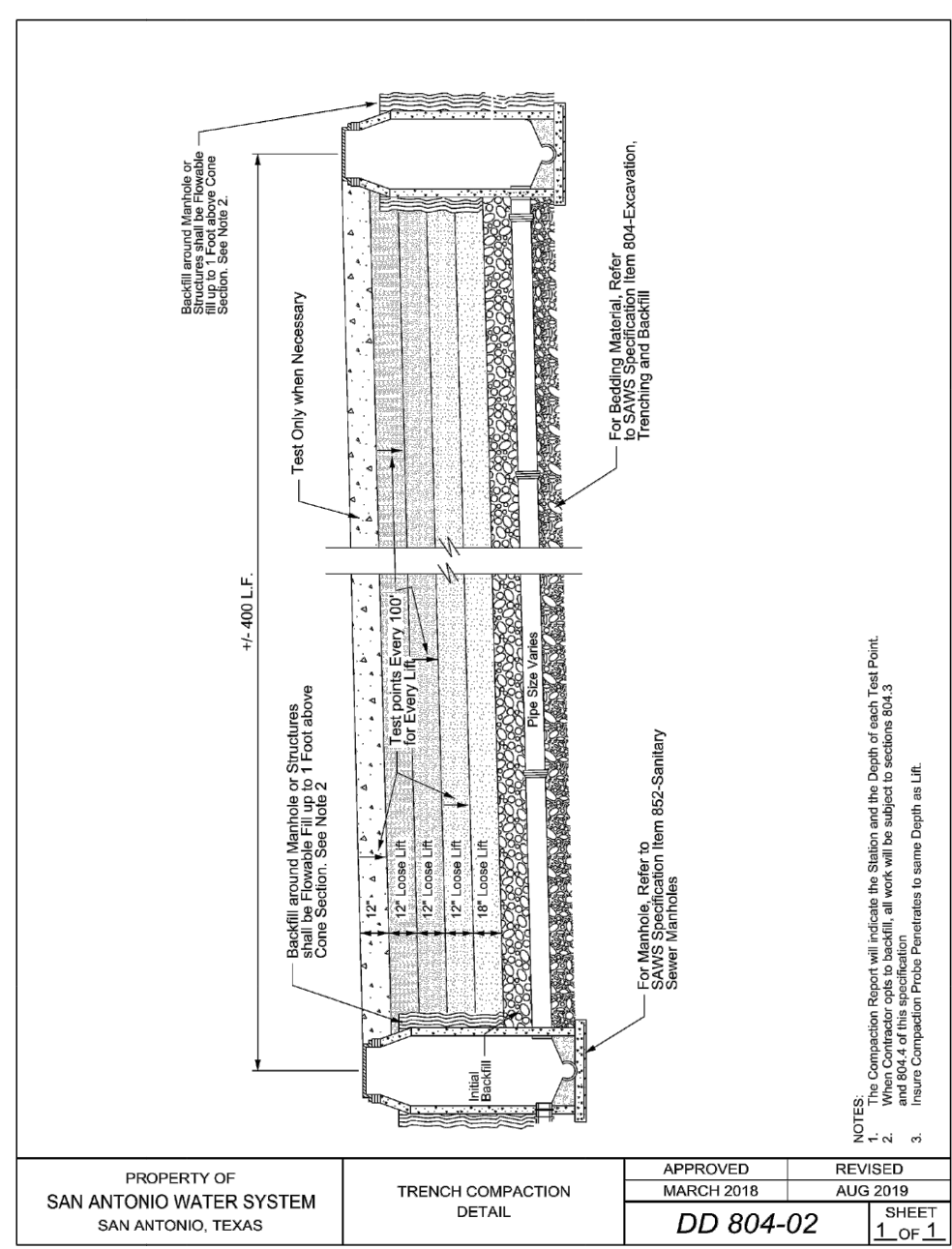
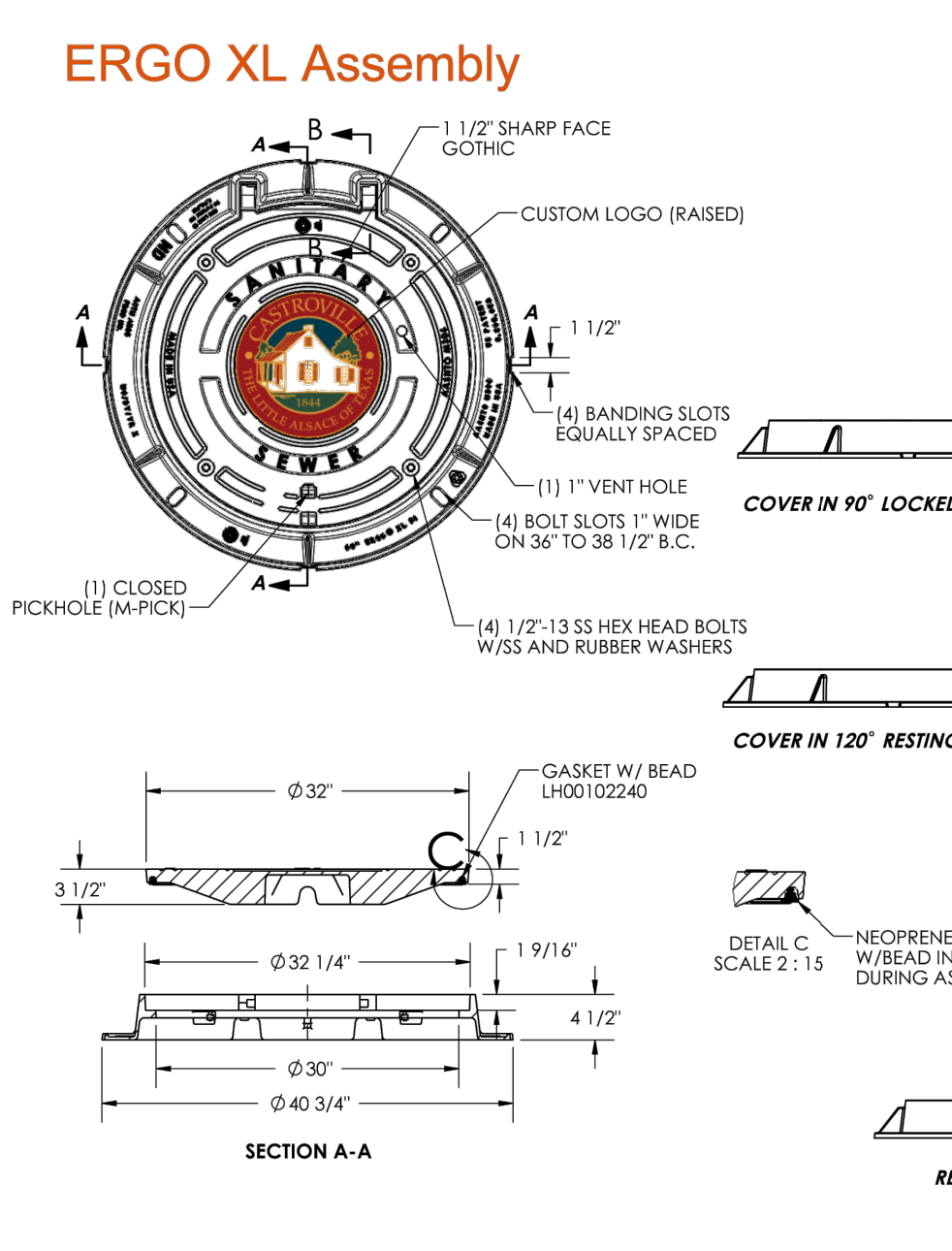
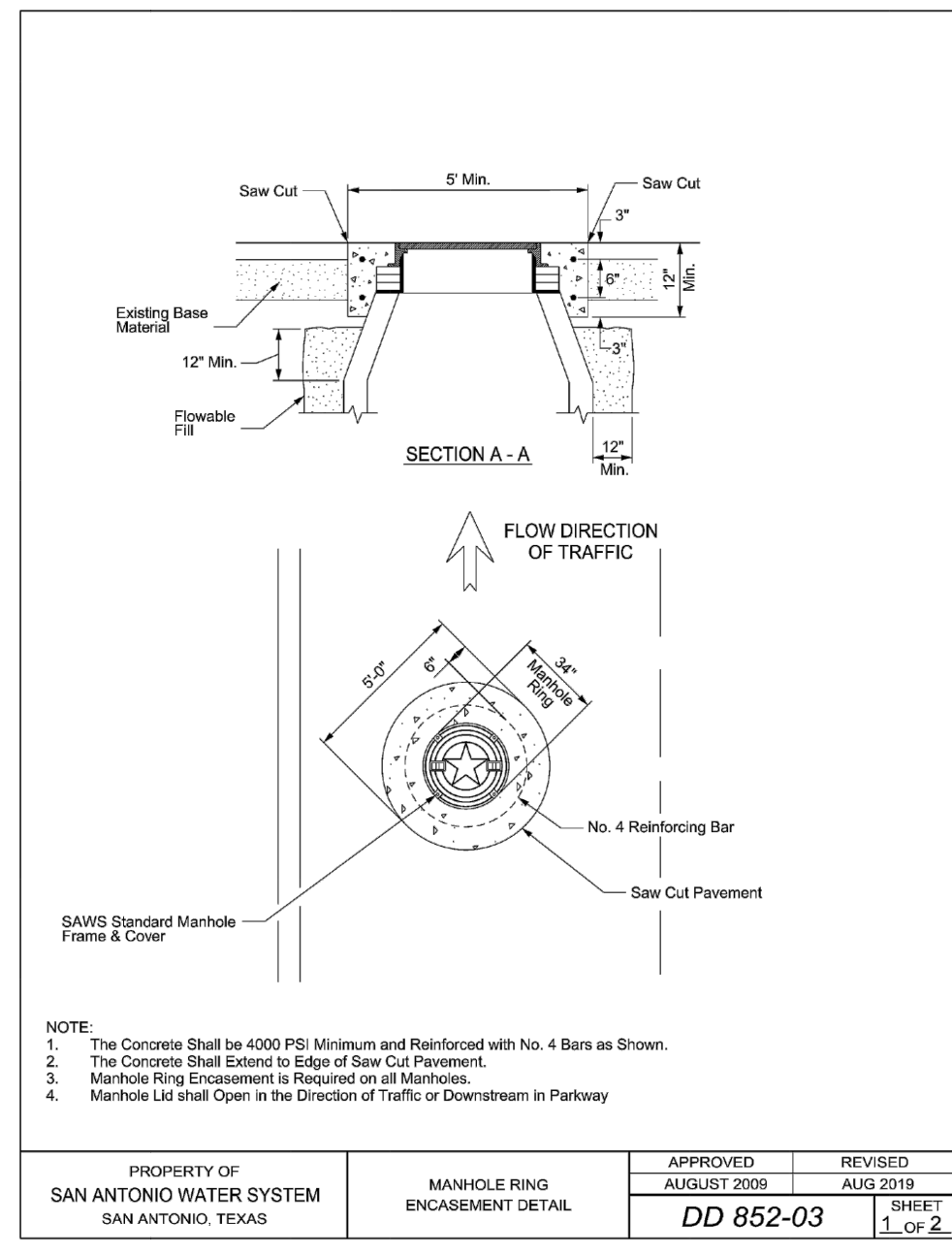
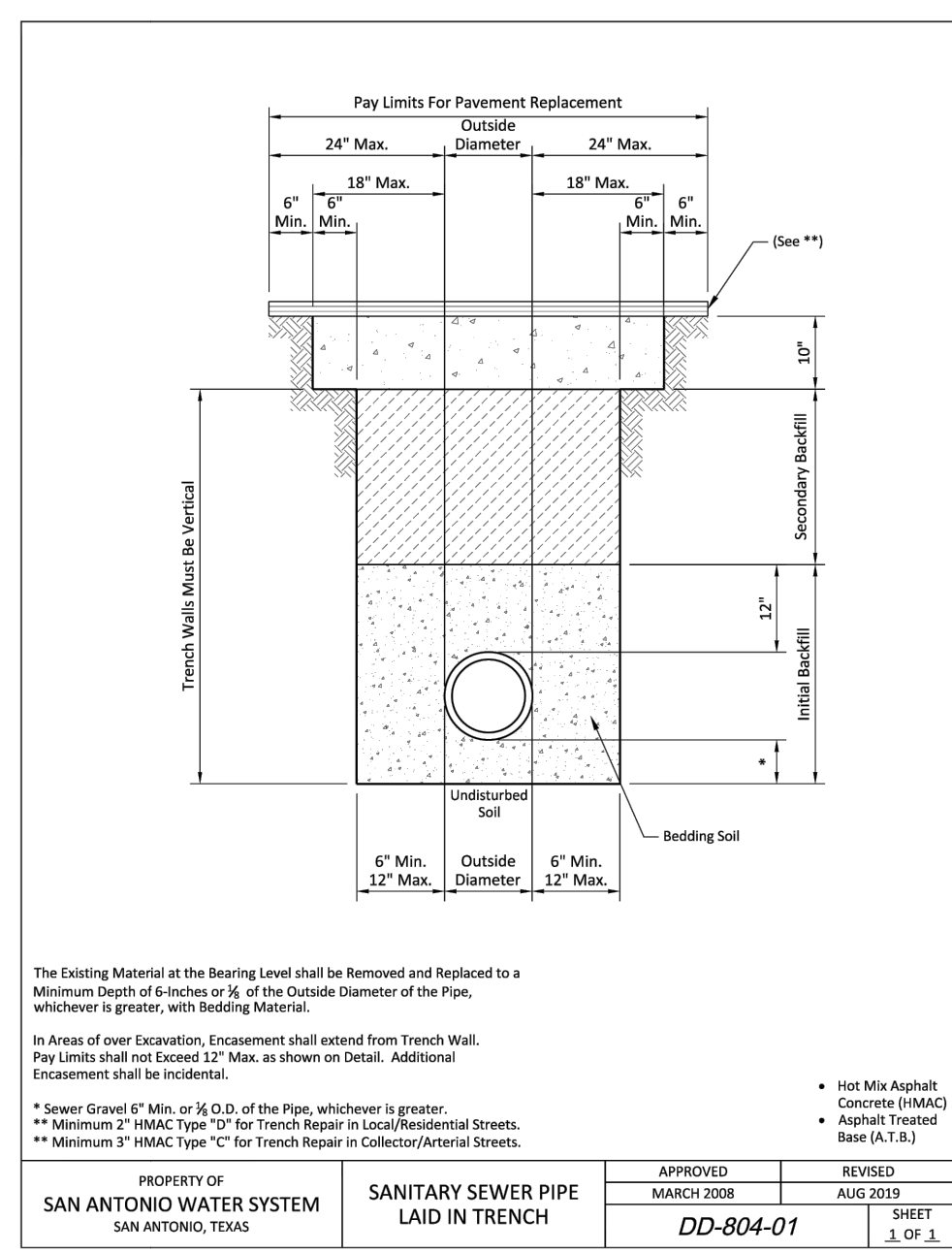
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KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65



FOR BIDDING
PURPOSES ONLY
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION



			MANDREL O.D.	RING O.D.
SIZE	A	B*	PVC (SDR 26)	PVC (SDR 26)
6"	4.0"	4.5"	5.50	4.79
8"	5.5"	6"	7.37	6.66
10"	7.0"	7.5"	9.21	8.50
12"	8.0"	9"	10.96	10.25
15"	10.0"	11"	13.42	12.71
18"	12.0"	13.5"	—	—
21"	14.0"	16"	—	—
24"	16.0"	18"	—	—
27"	18.0"	20"	—	—

*Minimum Length

CHART

Notes:
PVC Pipes and Fittings 6" to 15" in Diameter shall Conform to ASTM D-2241
PVC Pipes and Fittings 18" to 27" in Diameter shall Conform to ASTM F-679

This information is provided as a reference. All deflection testing shall be done in accordance with TCEQ Chapter 217.

PROPERTY OF	NO, NO GO DEFLECTION	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	TESTING MANDREL CHART	March 2008	December 2019
SAN ANTONIO, TEXAS		DD-849-01	SHEET 2 OF 2

Diagram illustrating the Sanitary Sewer/Channel Crossing Detail. The diagram shows a cross-section of a channel with a proposed sanitary sewer main crossing it. The sewer main is shown as a pipe with a concrete encasement detail. The channel is labeled "CHANNEL" and the top of the channel is labeled "BOTTOM OF CHANNEL". The ground surface is labeled "FINISHED GROUND/PAVEMENT (TOP OF GRADE)". The diagram also indicates the "MIN" (minimum) depth of the sewer main below the channel bottom. The sewer main is labeled "PROPOSED SANITARY SEWER MAIN" and the concrete encasement is labeled "SEE CONCRETE ENCASUREMENT DETAIL". The diagram also shows the "LIMITS TO CHANNEL BANKS" and the "SEWER MAIN REFER TO SEWER PROFILE FOR SIZE".

Diagram illustrating the Sanitary Sewer/Channel Crossing Detail. The diagram shows a cross-section of a channel with a proposed sanitary sewer main crossing it. The sewer main is shown as a pipe with a concrete encasement detail. The channel is labeled "CHANNEL" and the top of the channel is labeled "BOTTOM OF CHANNEL". The ground surface is labeled "FINISHED GROUND/PAVEMENT (TOP OF GRADE)". The diagram also indicates the "MIN" (minimum) depth of the sewer main below the channel bottom. The sewer main is labeled "PROPOSED SANITARY SEWER MAIN" and the concrete encasement is labeled "SEE CONCRETE ENCASUREMENT DETAIL". The diagram also shows the "LIMITS TO CHANNEL BANKS" and the "SEWER MAIN REFER TO SEWER PROFILE FOR SIZE".

COVER IS REMOVABLE
AT 90 DEGREES

CLEAN HINGE POCKETS
BEFORE CLOSING

SAFETY STOP AT 90 DEGREES
SLIGHTLY LIFT THE SIDE OF COVER
AND ROLL FORWARD TO CLOSE

DUCTILE IRON (80-55-06)
DESIGN LOAD
HEAVY DUTY
OPEN R/A
COATING
UNDIGESTED
DESIGNATES MACHINED SURFACE

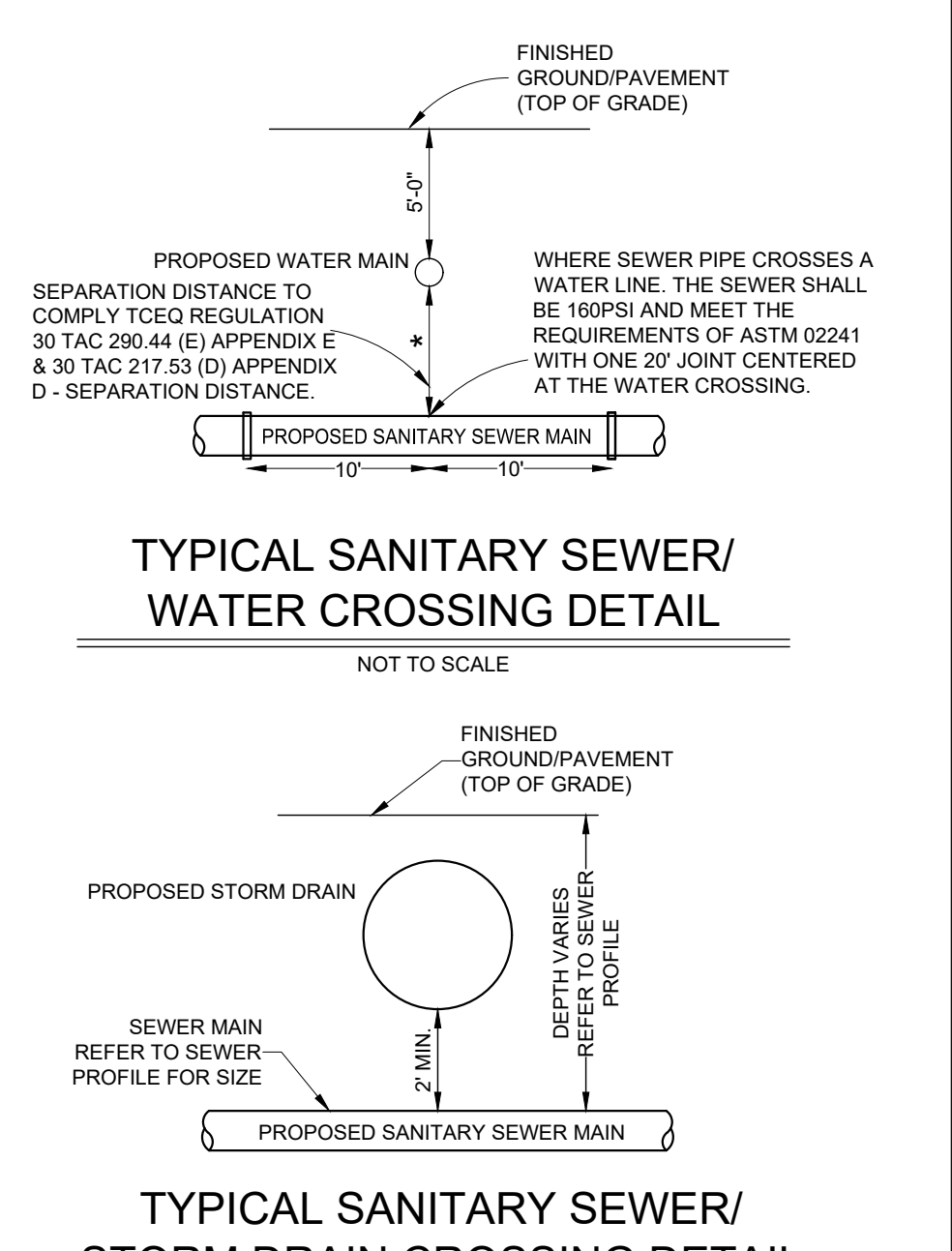
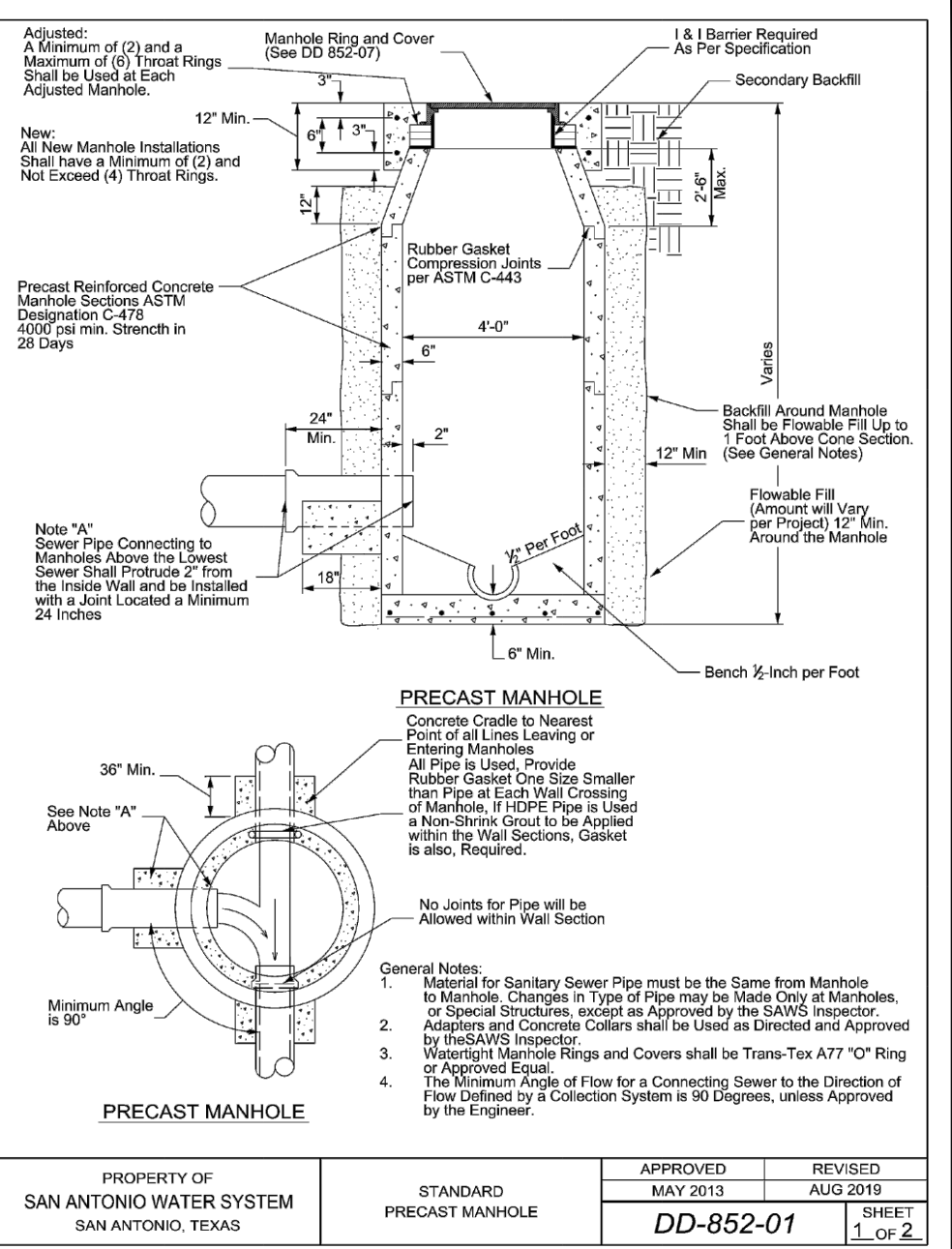
CERTIFICATION
ASTM A538
ASTM A506
COUNTRY OF ORIGIN: USA

SECTION B-B

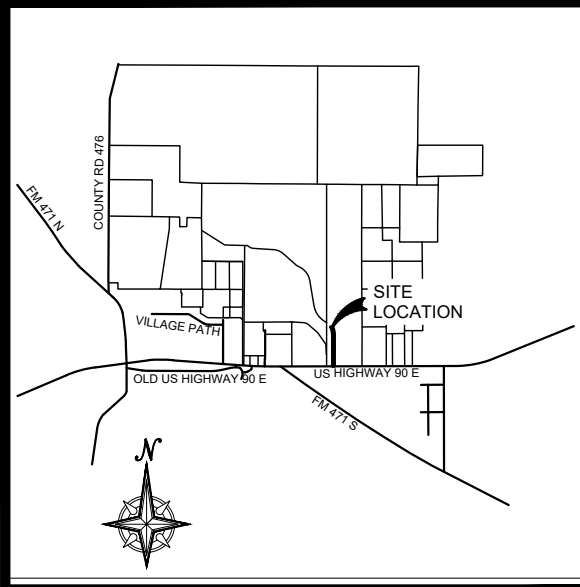
BOTTOM VIEW

NOTE: THIS IS A DRILLED COVER

100

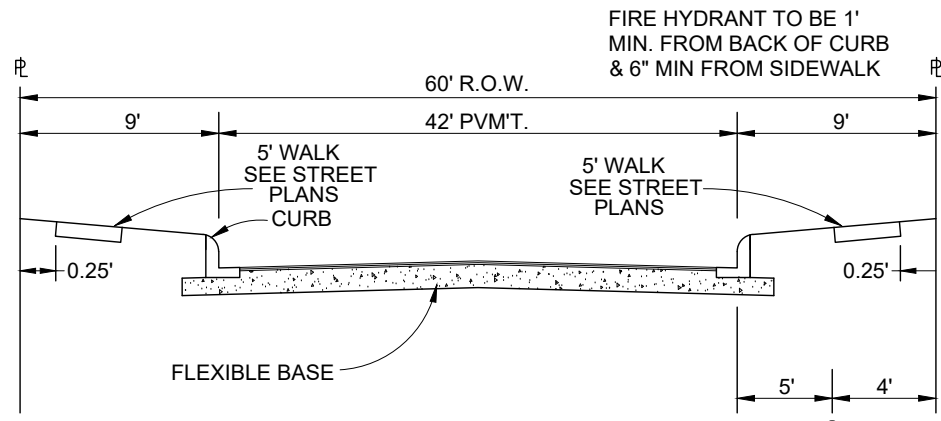


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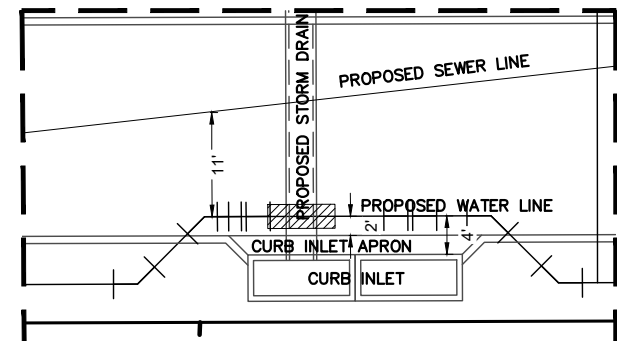


LOCATION MAP

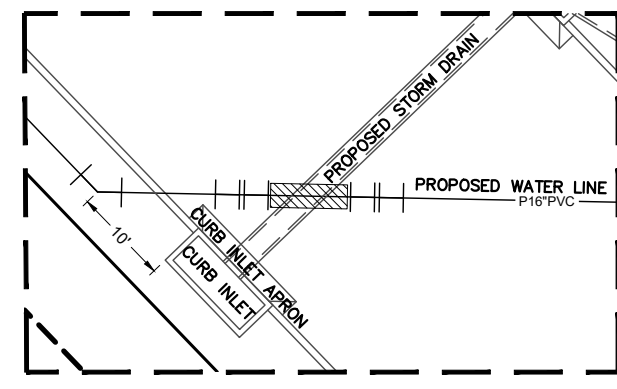
TRENCH EXCAVATION SAFETY PROTECTION
Contractor and/or contractor's independently retained employee or structural design/geotechnical/safety/equipment consultant, if any, shall, review these plans and available geotechnical information and the anticipated installation site(s) within the project work area in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures. The Contractor's implementation of the systems, programs and/or procedures shall provide for adequate trench excavation, safety protection that complies with as a minimum, OSHA standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA standards governing the presence and activities of individuals working in and around trench excavation.



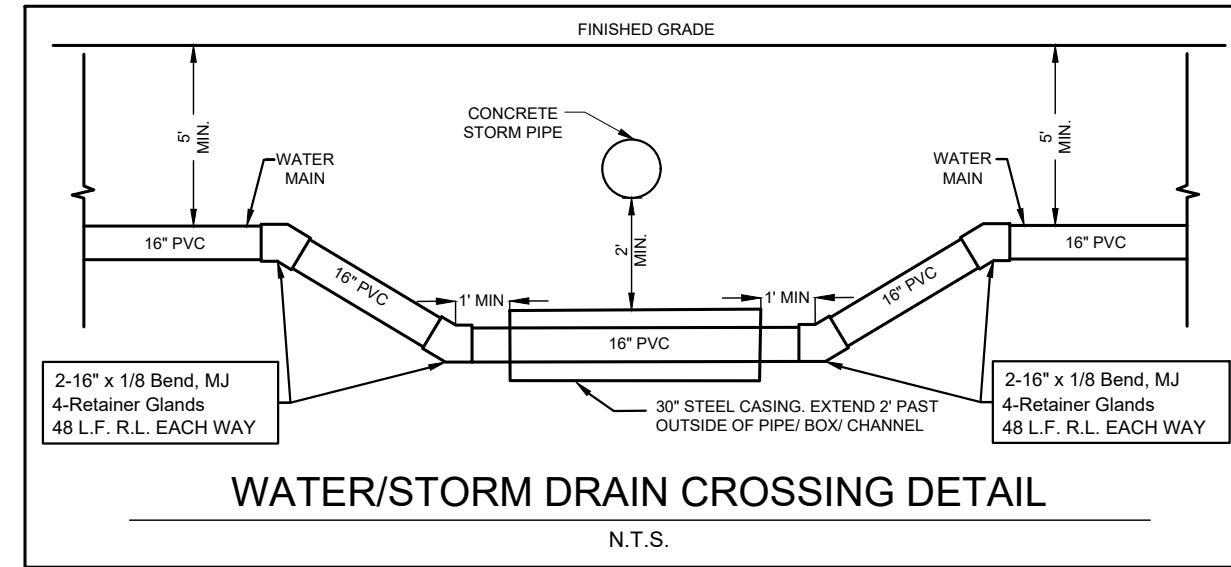
TYPICAL COLLECTOR STREET SECTION
NOT TO SCALE



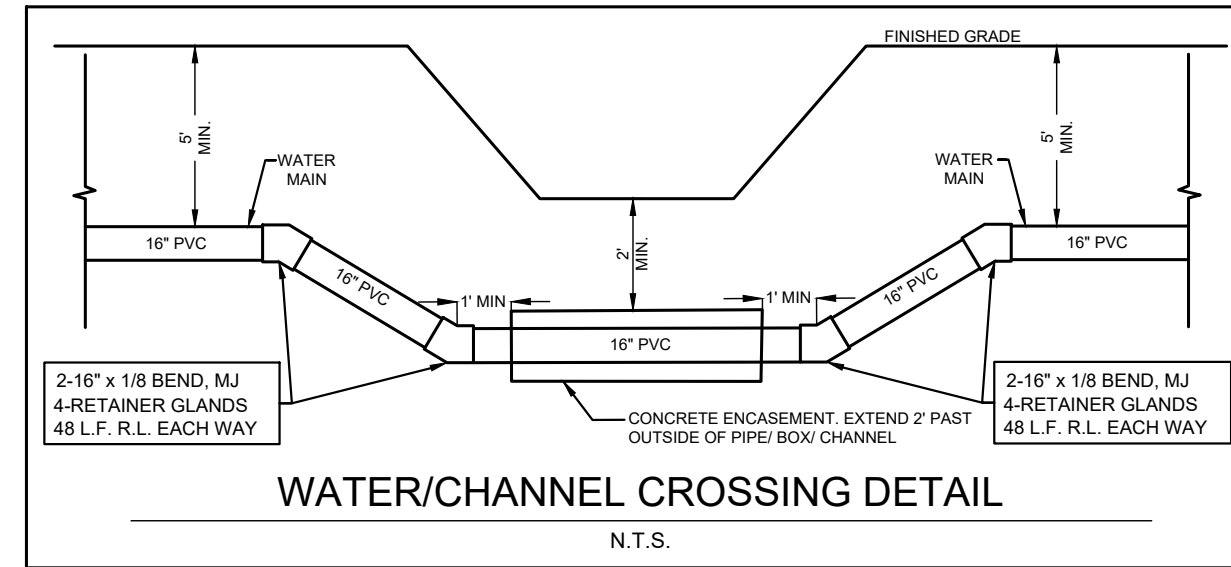
DETAIL "A"



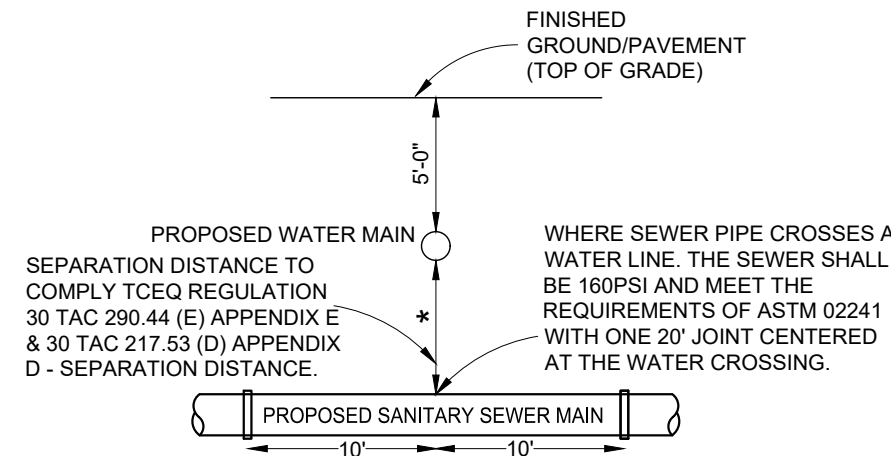
DETAIL "B"



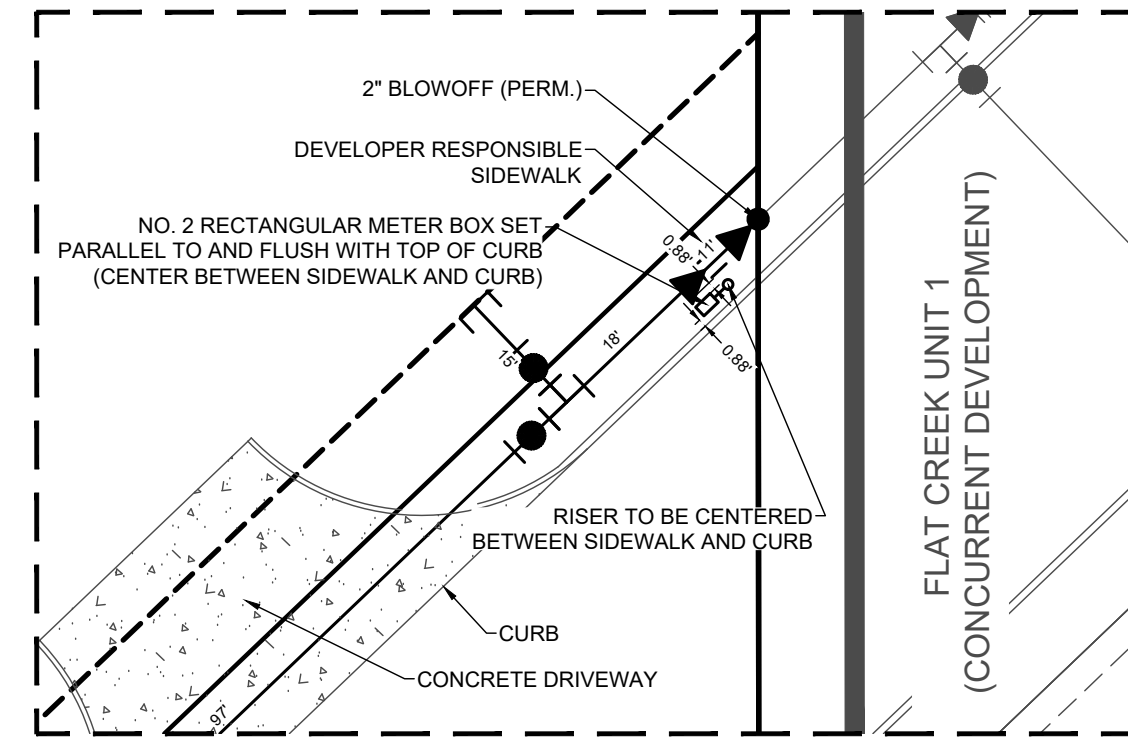
WATER/STORM DRAIN CROSSING DETAIL
N.T.S.



WATER/CHANNEL CROSSING DETAIL
N.T.S.



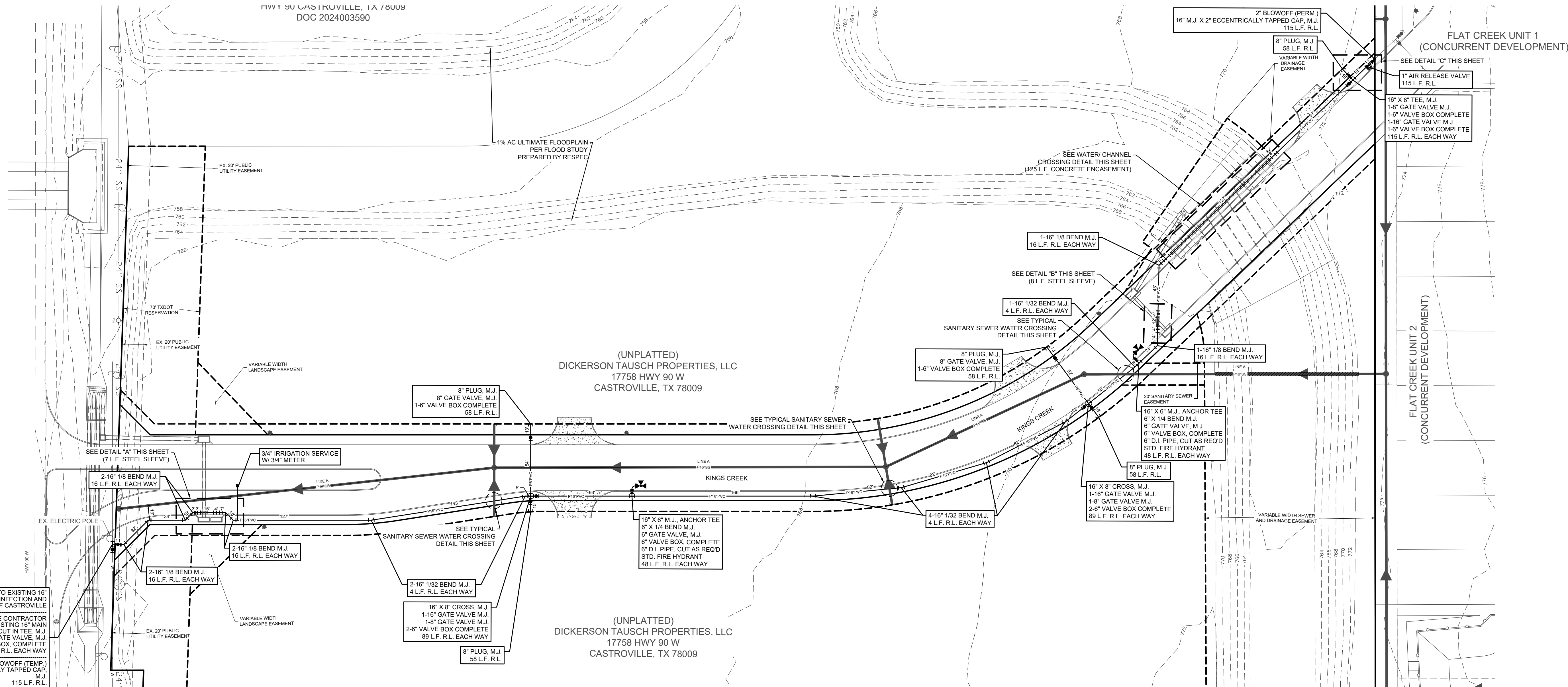
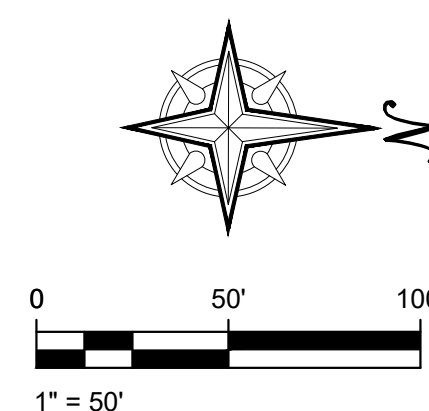
TYPICAL SANITARY SEWER/
WATER CROSSING DETAIL
NOT TO SCALE



DETAIL "C"

LEGEND

- EXISTING EDGE OF PAVEMENT
- EXISTING SANITARY SEWER MAIN
- PROPOSED SANITARY SEWER MAIN
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- IRRIGATION SERVICE
- PROPOSED WATER SERVICE/ METER
- FIRE HYDRANT
- PROPOSED STREET LIGHT (100 WATT/SINGLE ARM)



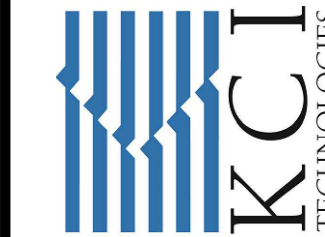
CONTRACTOR SHALL TIE INTO EXISTING 16" WATER MAIN AFTER DISINFECTION AND ACCEPTANCE BY CITY OF CASTROVILLE
AFTER RELEASE FOR SERVICE CONTRACTOR TO TIE NEW 16" MAIN TO EXISTING 16" MAIN
1-16" X 16" CUT IN TEE, M.J.
2-16" GATE VALVE, M.J.
2-6" VALVE BOX, COMPLETE
115 L.F. R.L. EACH WAY
2" BLOWOFF (TEMP.)
16" M.J. X 2" ECCENTRICALLY TAPPED CAP, M.J.
115 L.F. R.L.

(UNPLATTED)
DICKERSON TAUSCH PROPERTIES, LLC
17758 HWY 90 W
CASTROVILLE, TX 78009

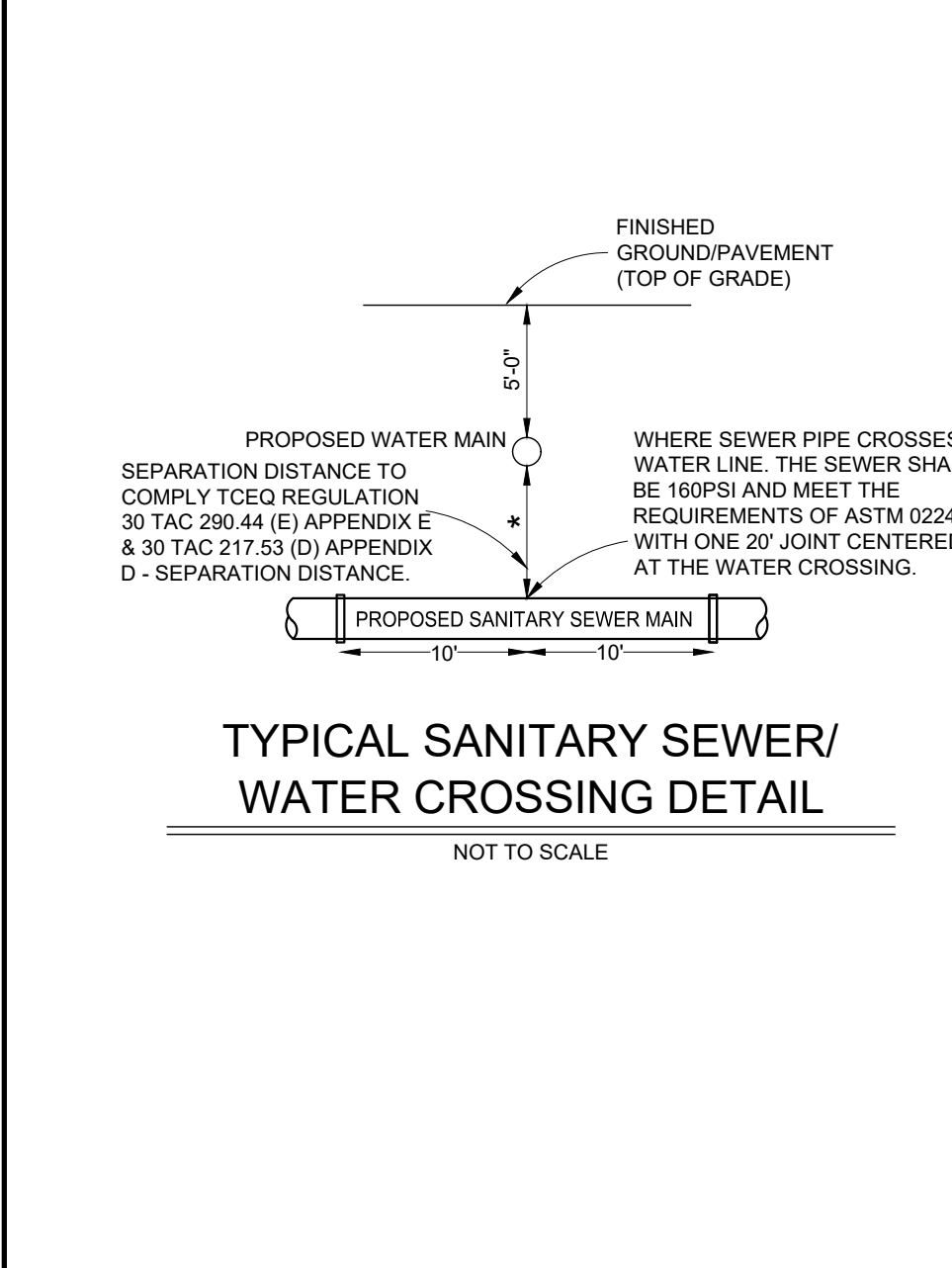
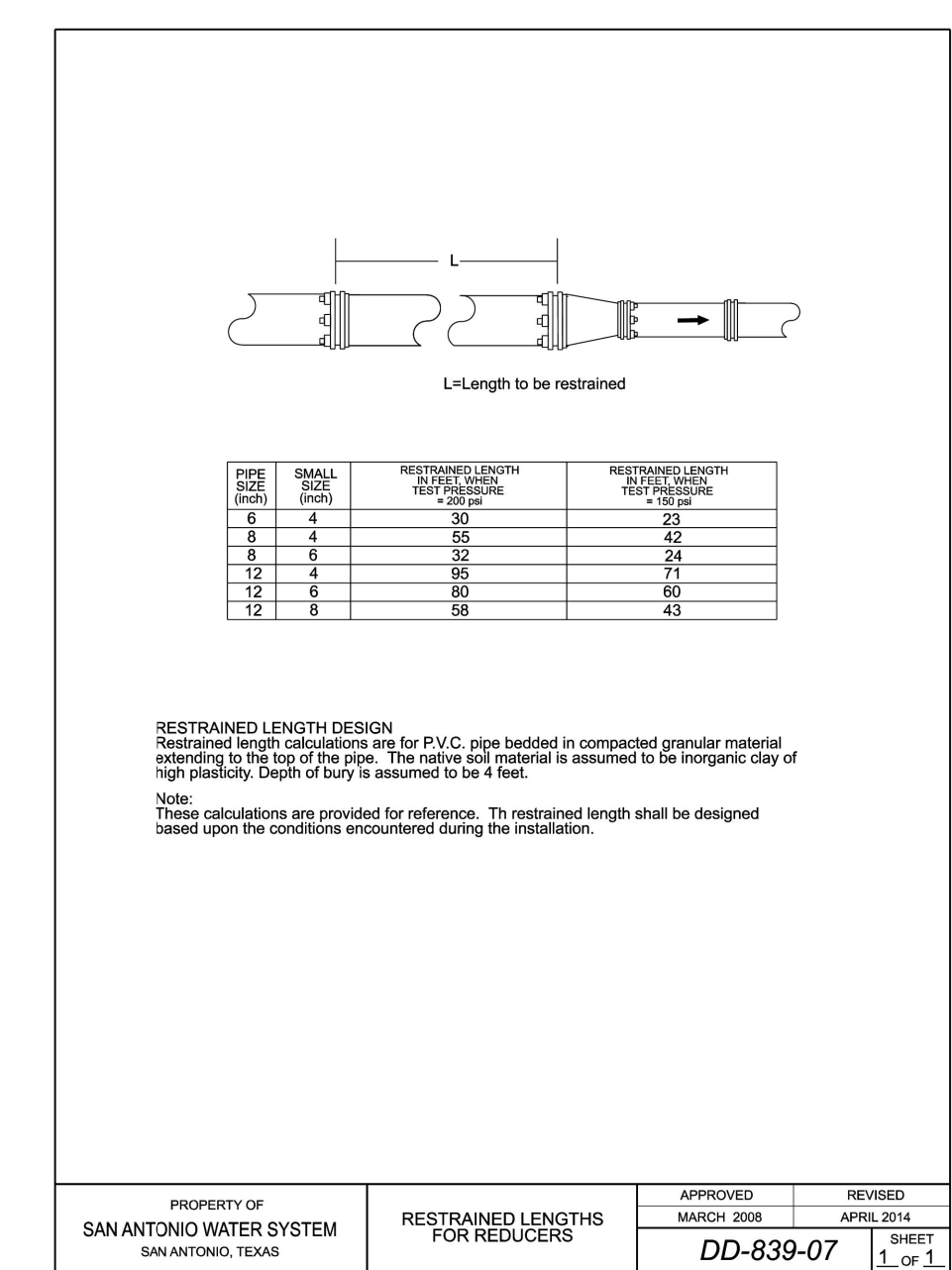
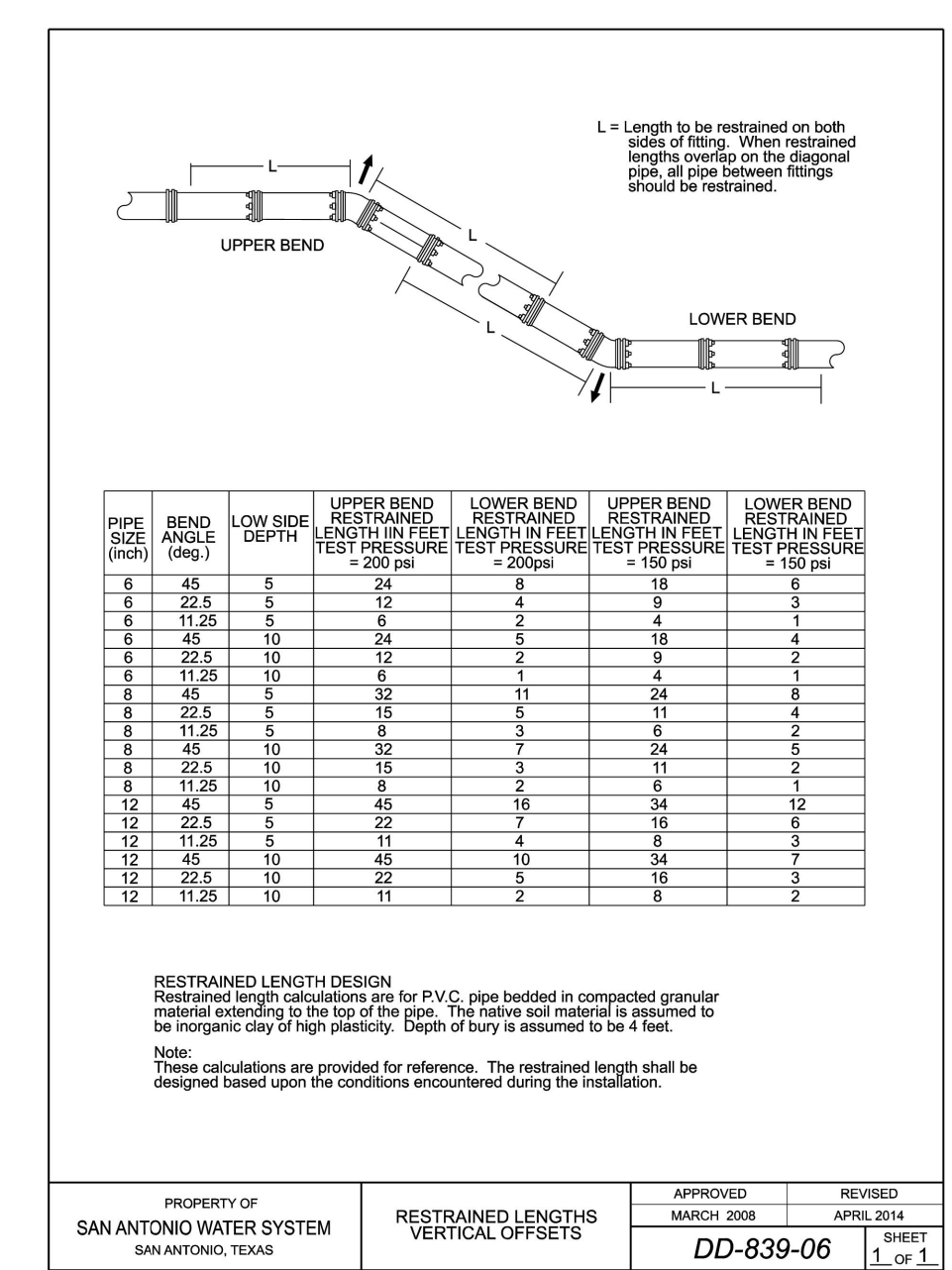
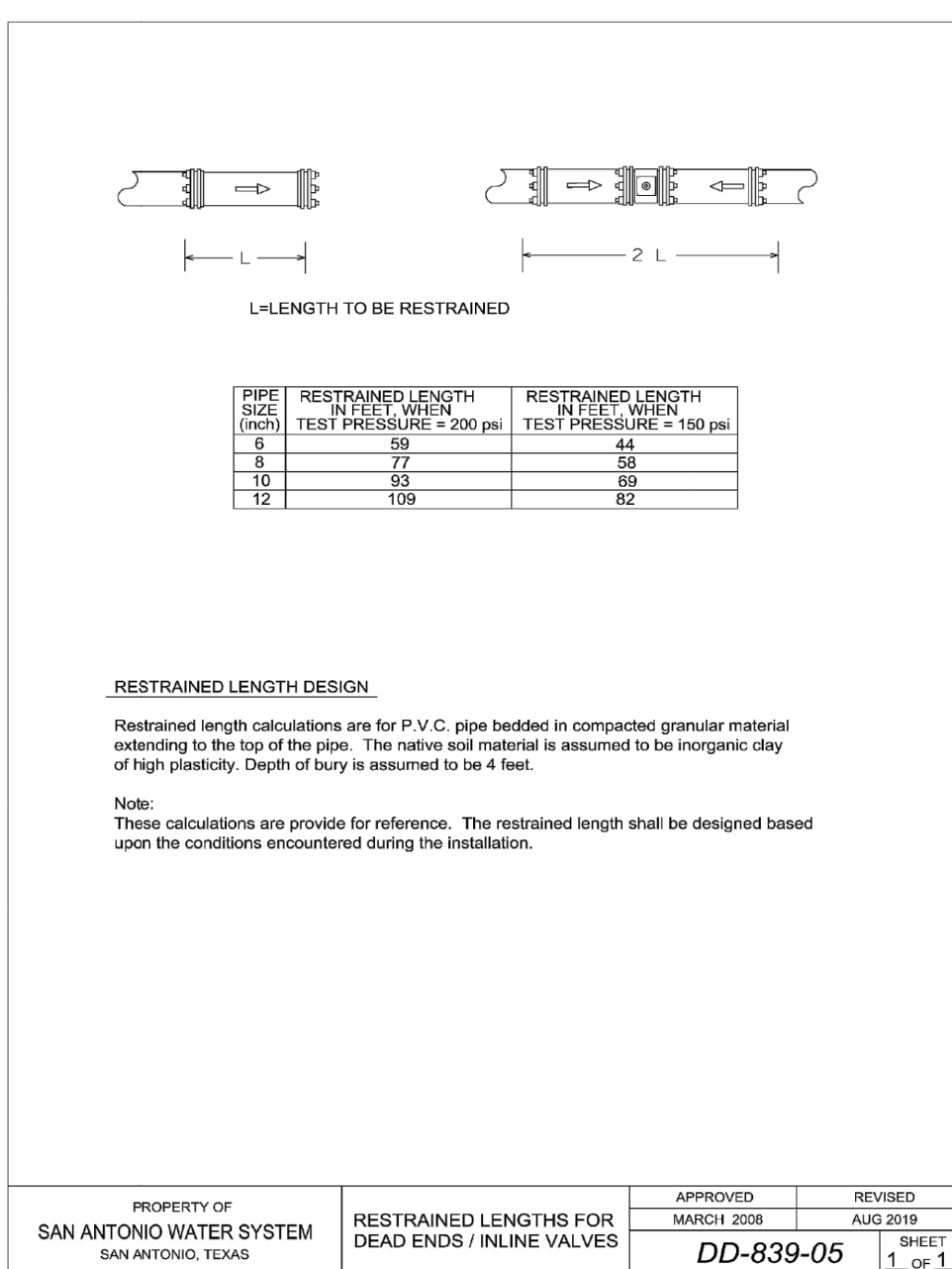
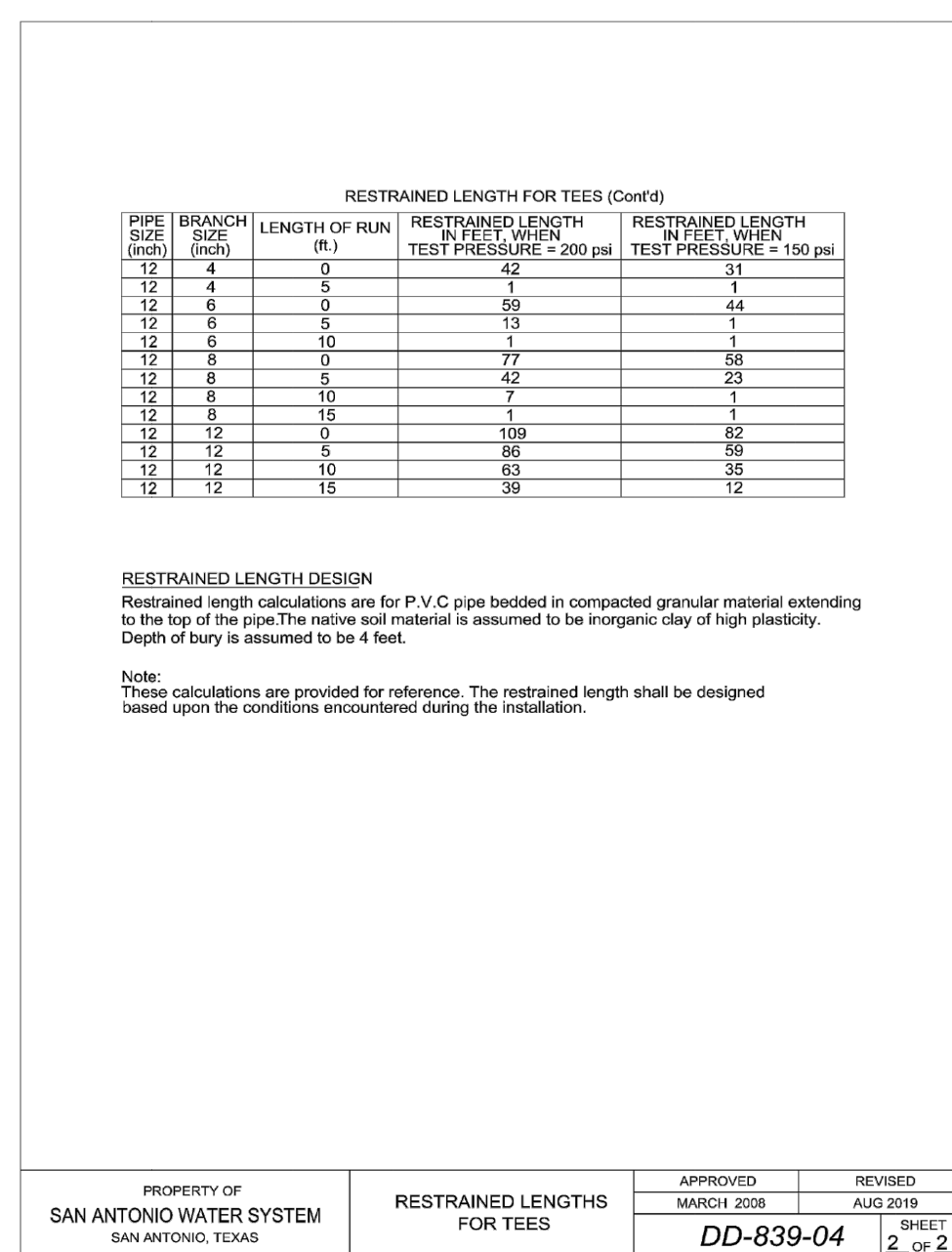
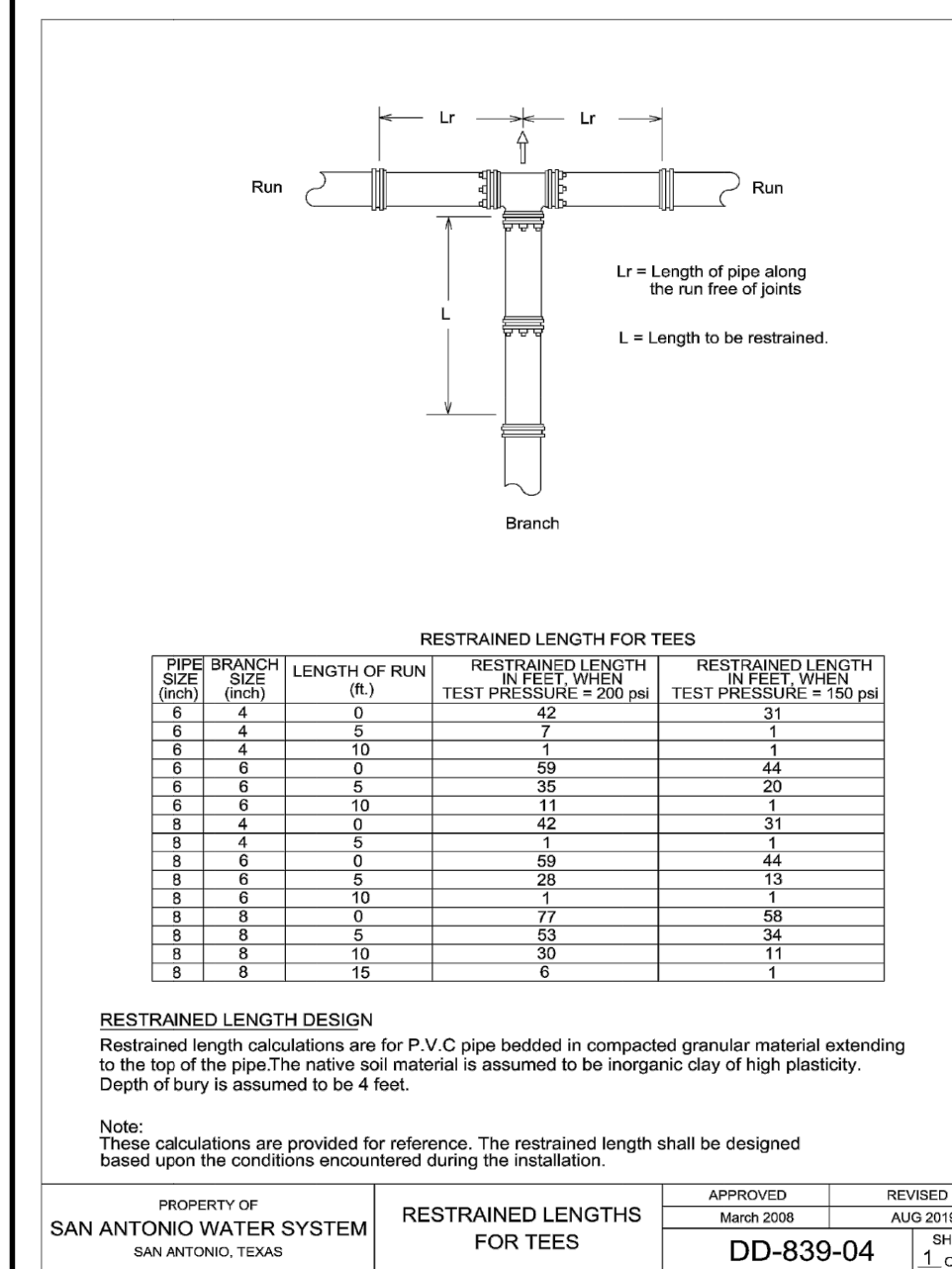
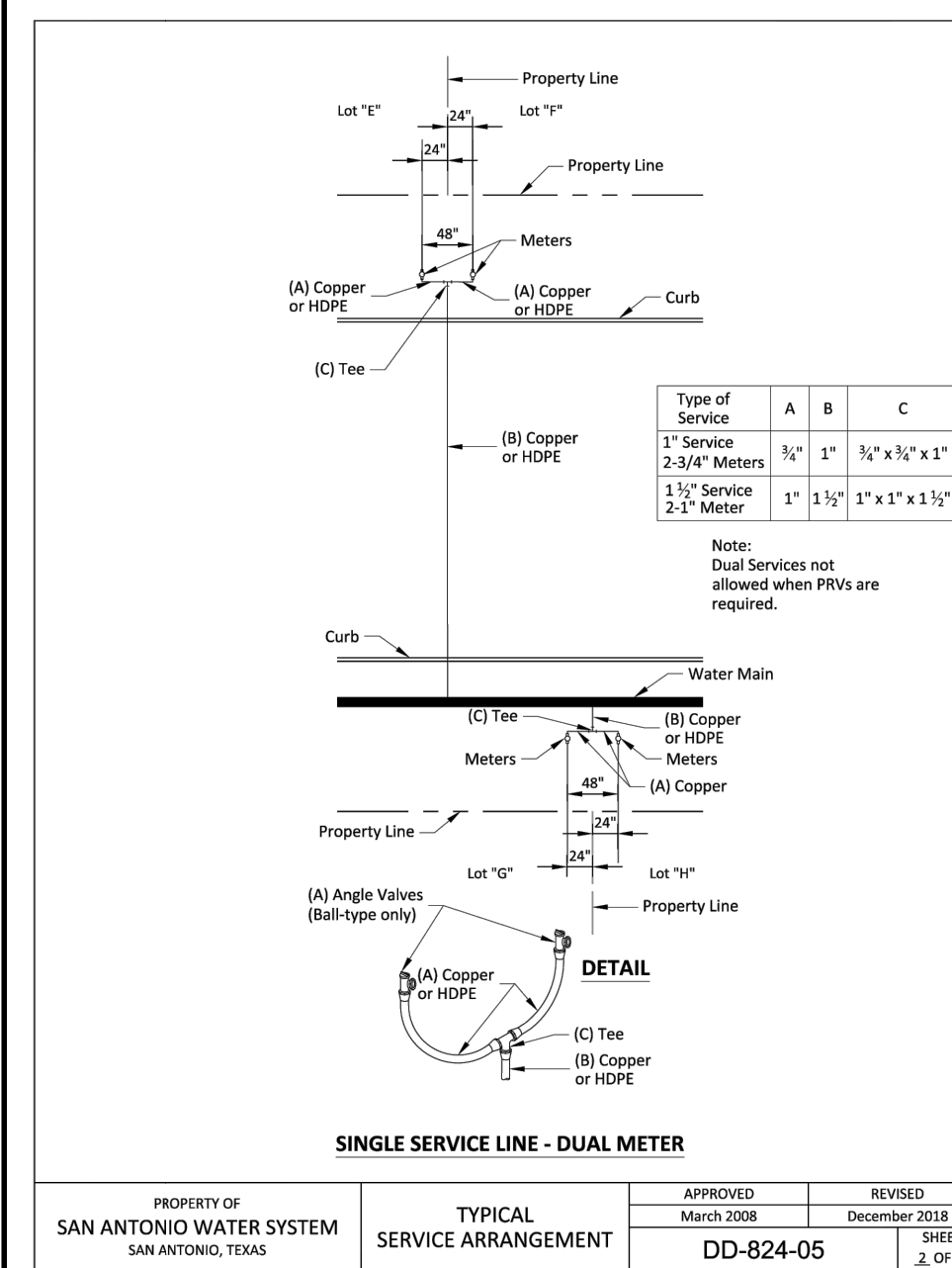
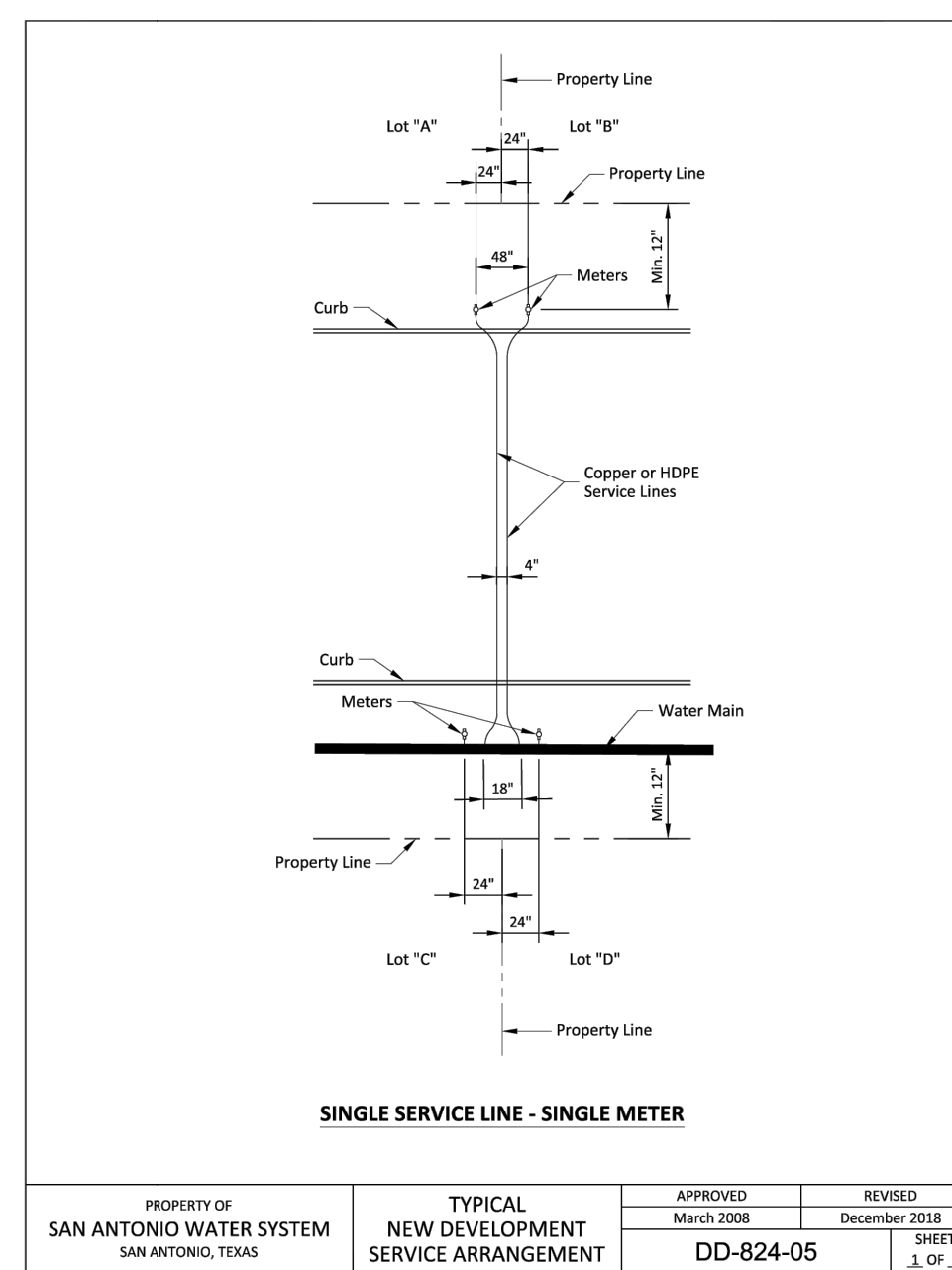
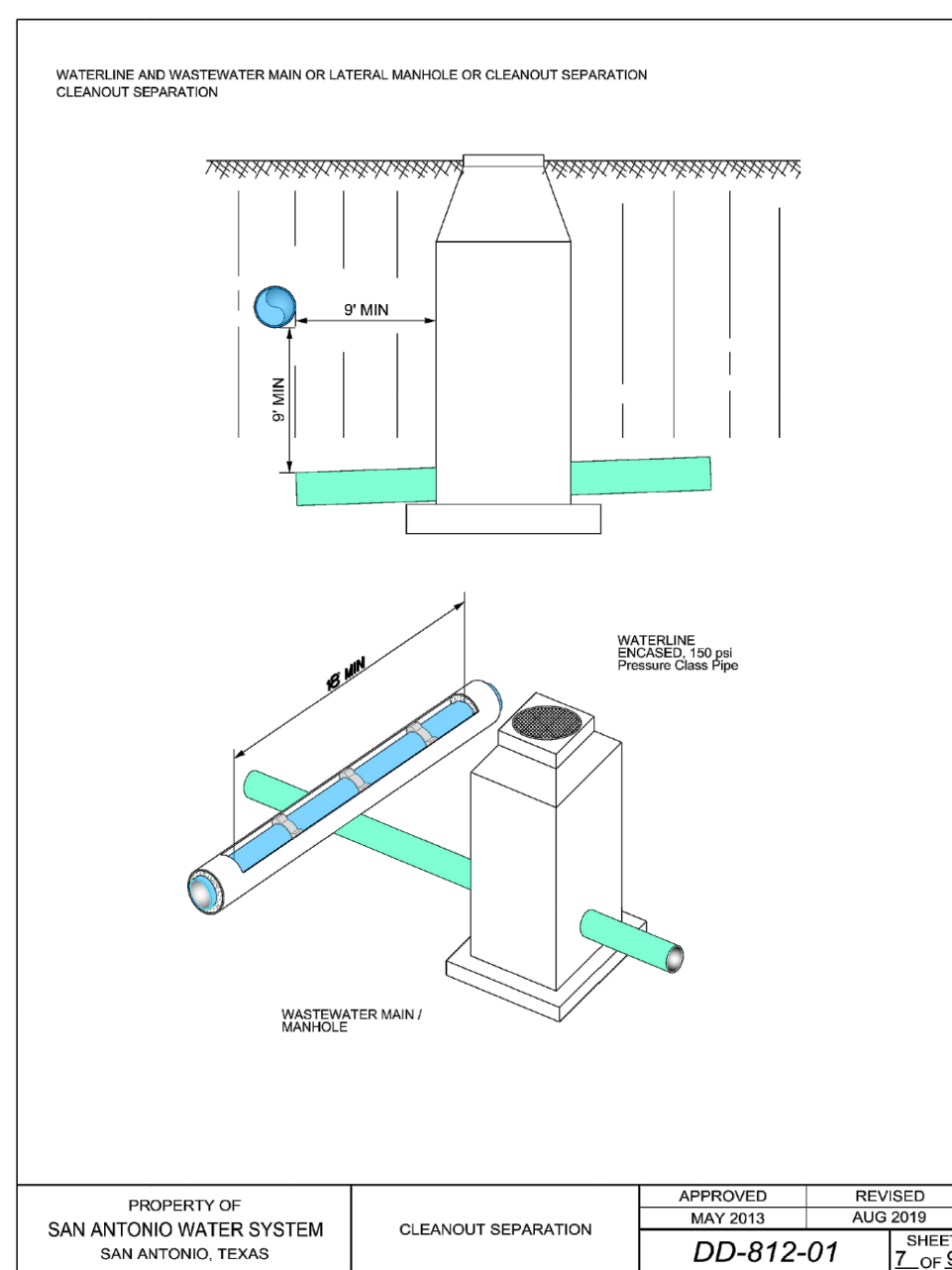
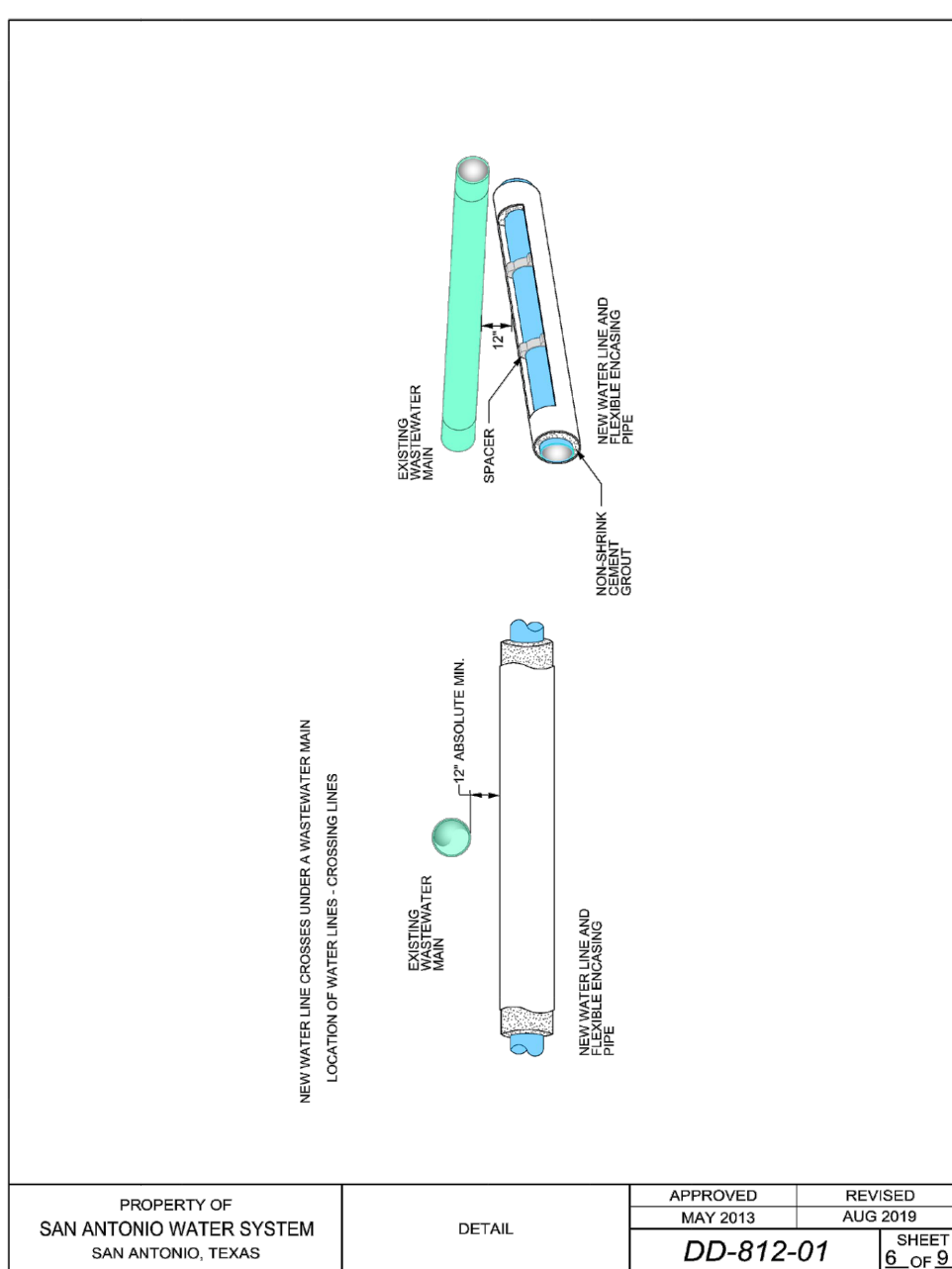
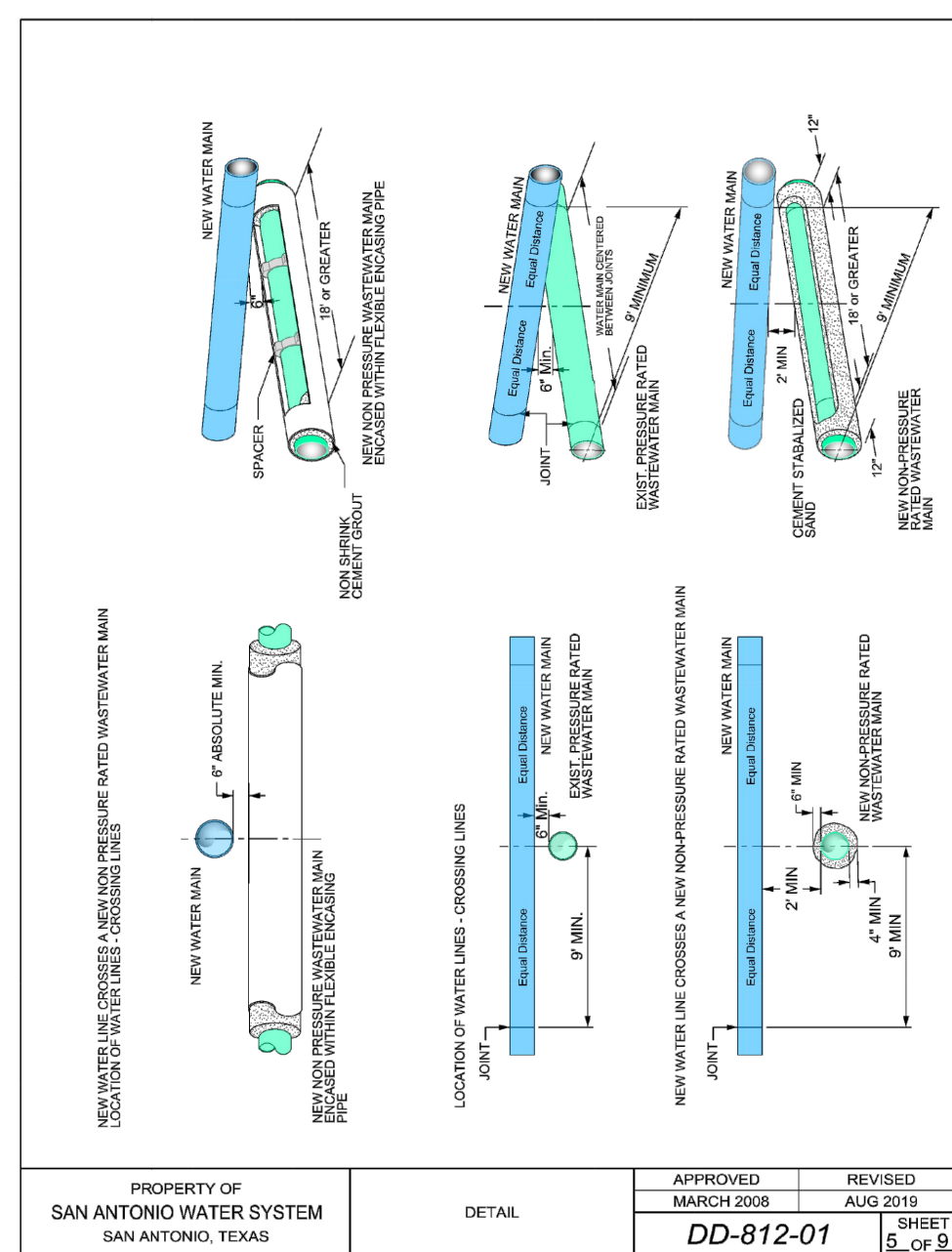
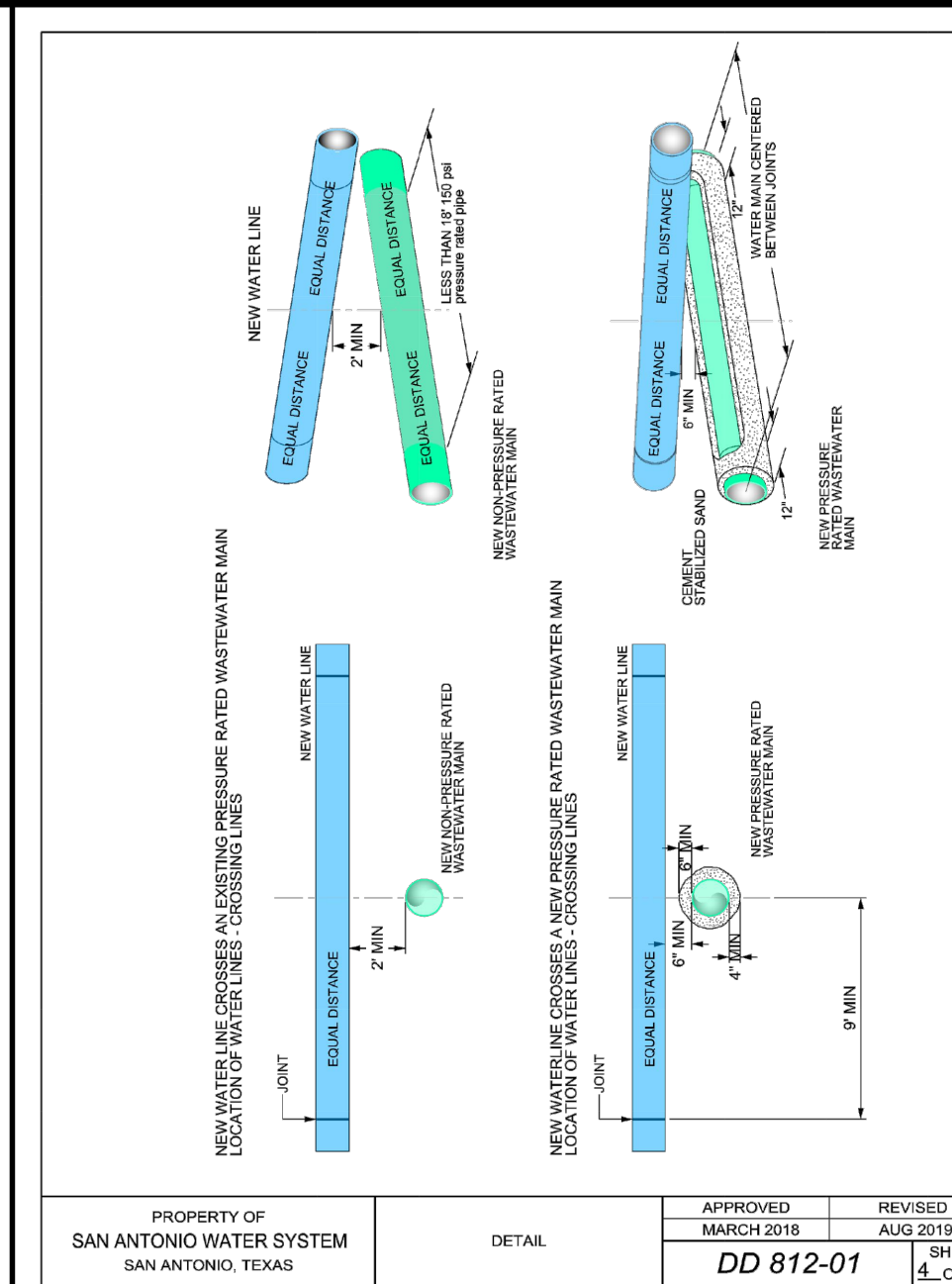
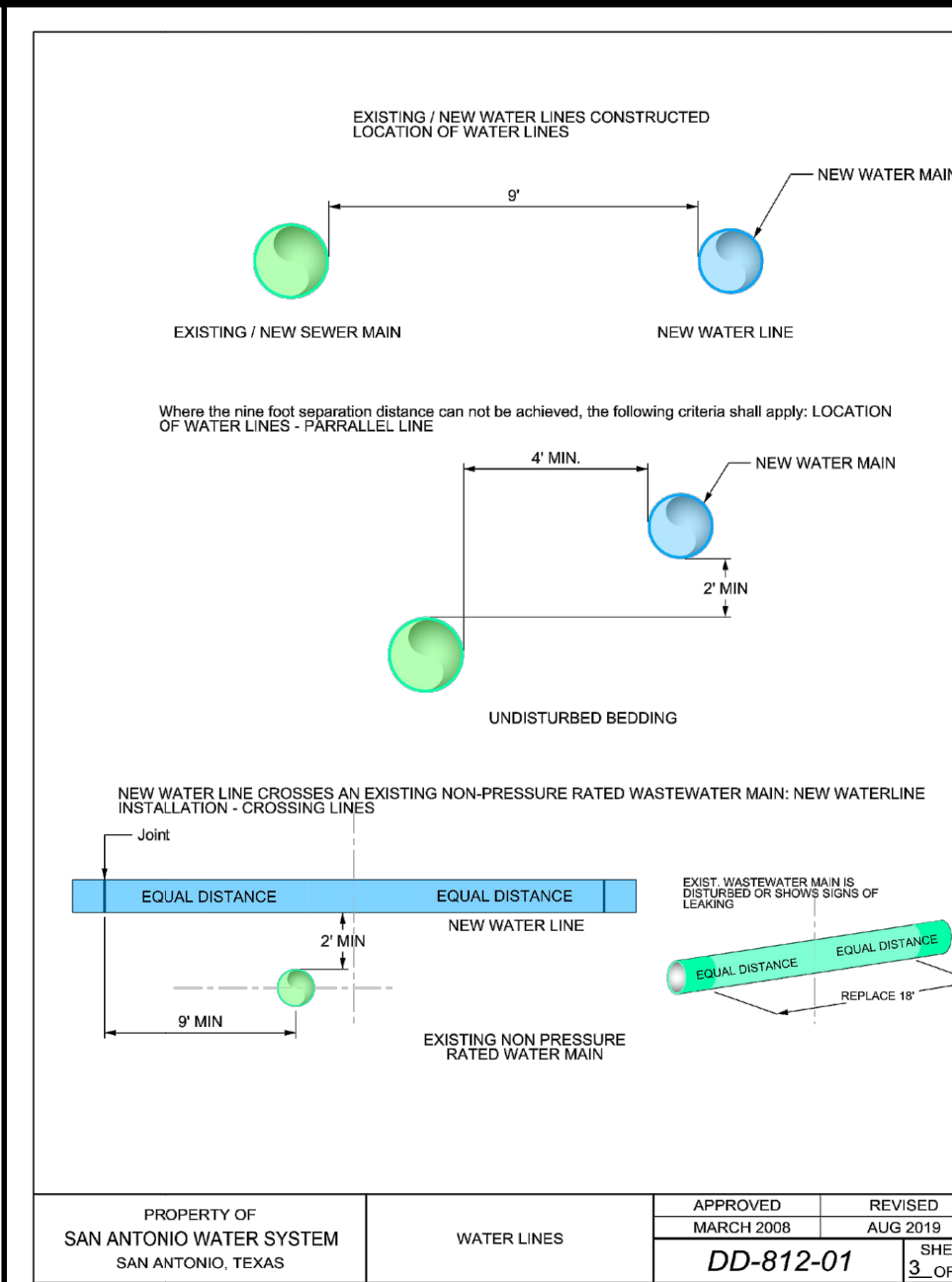
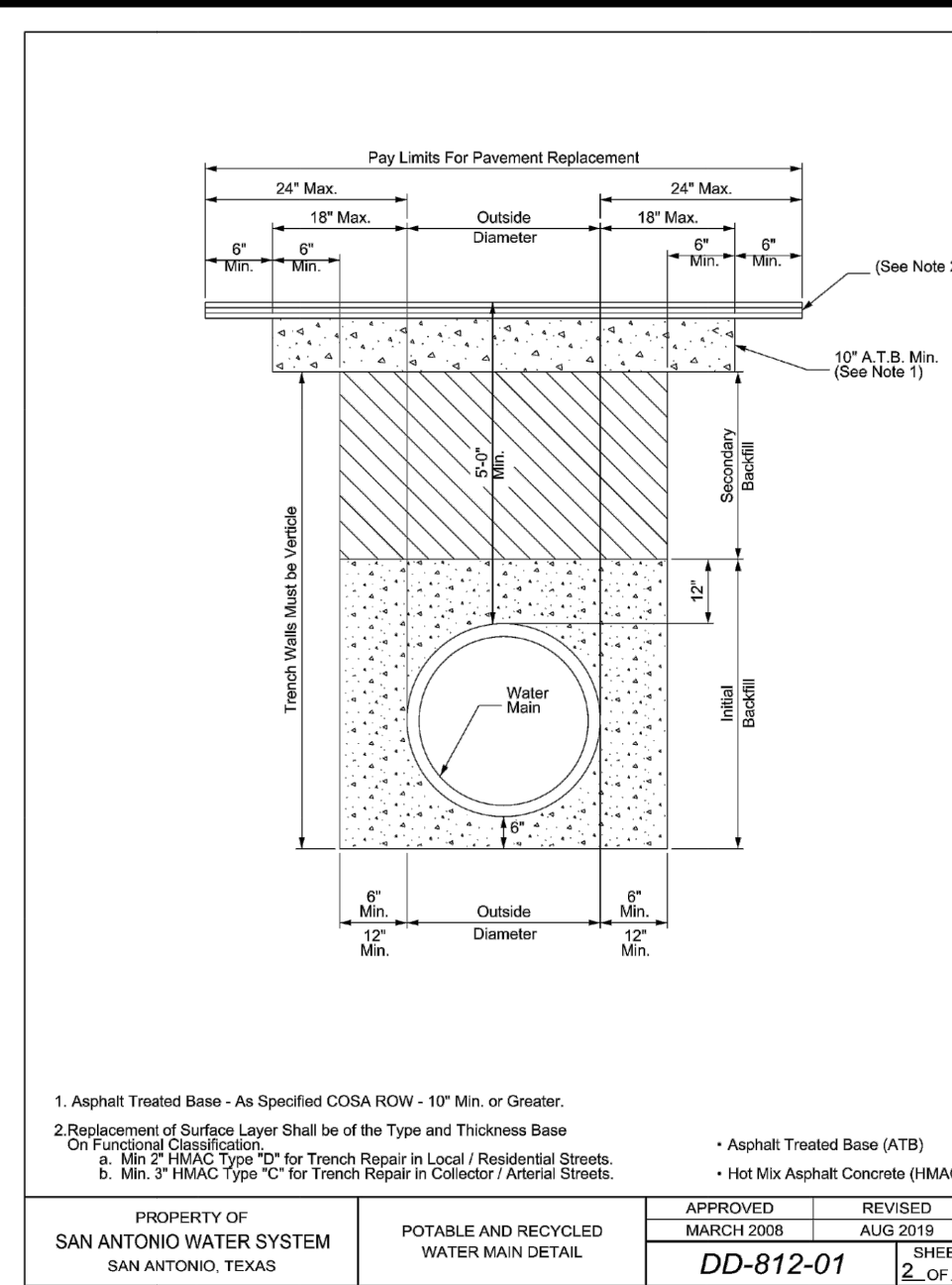
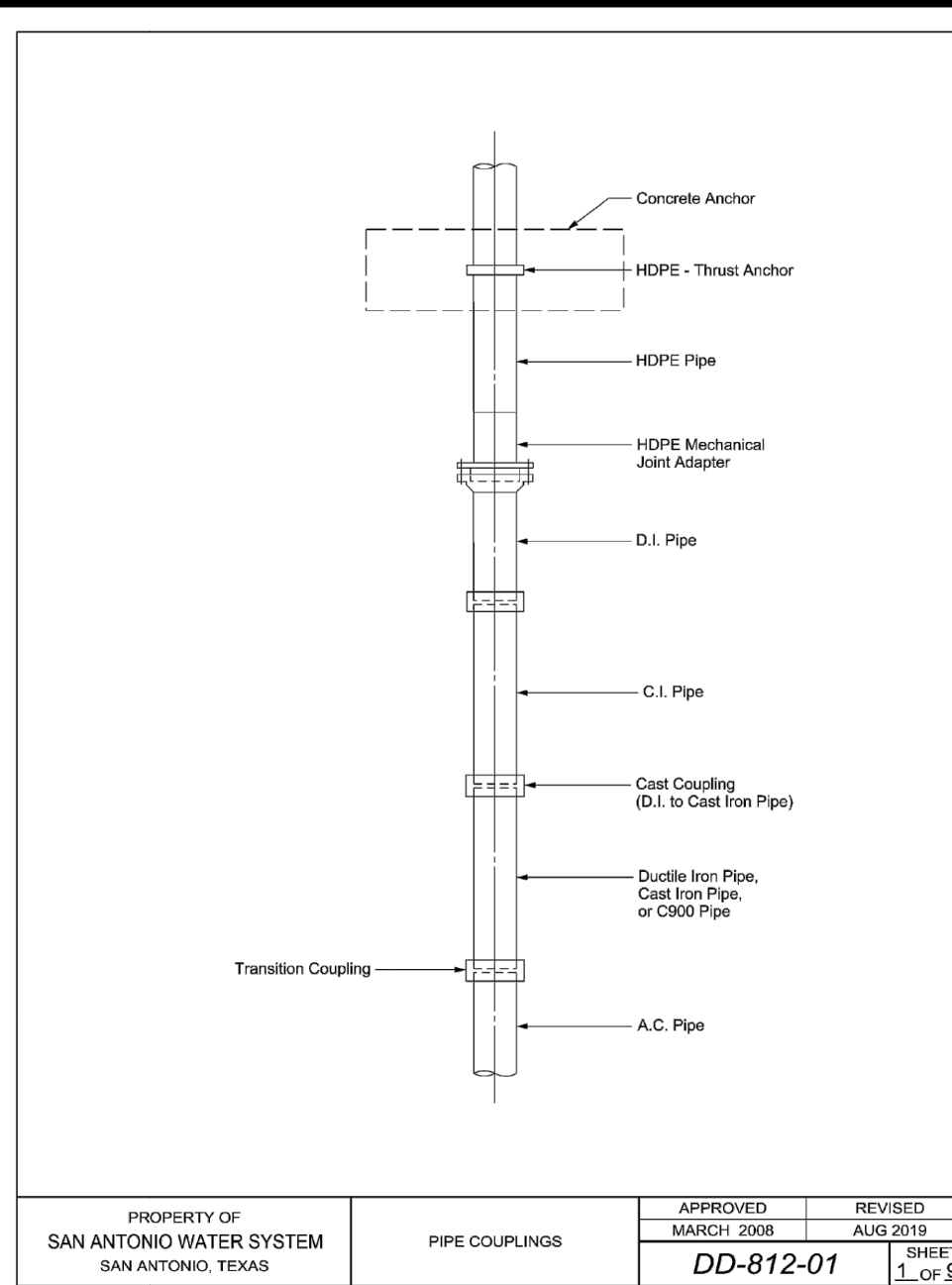
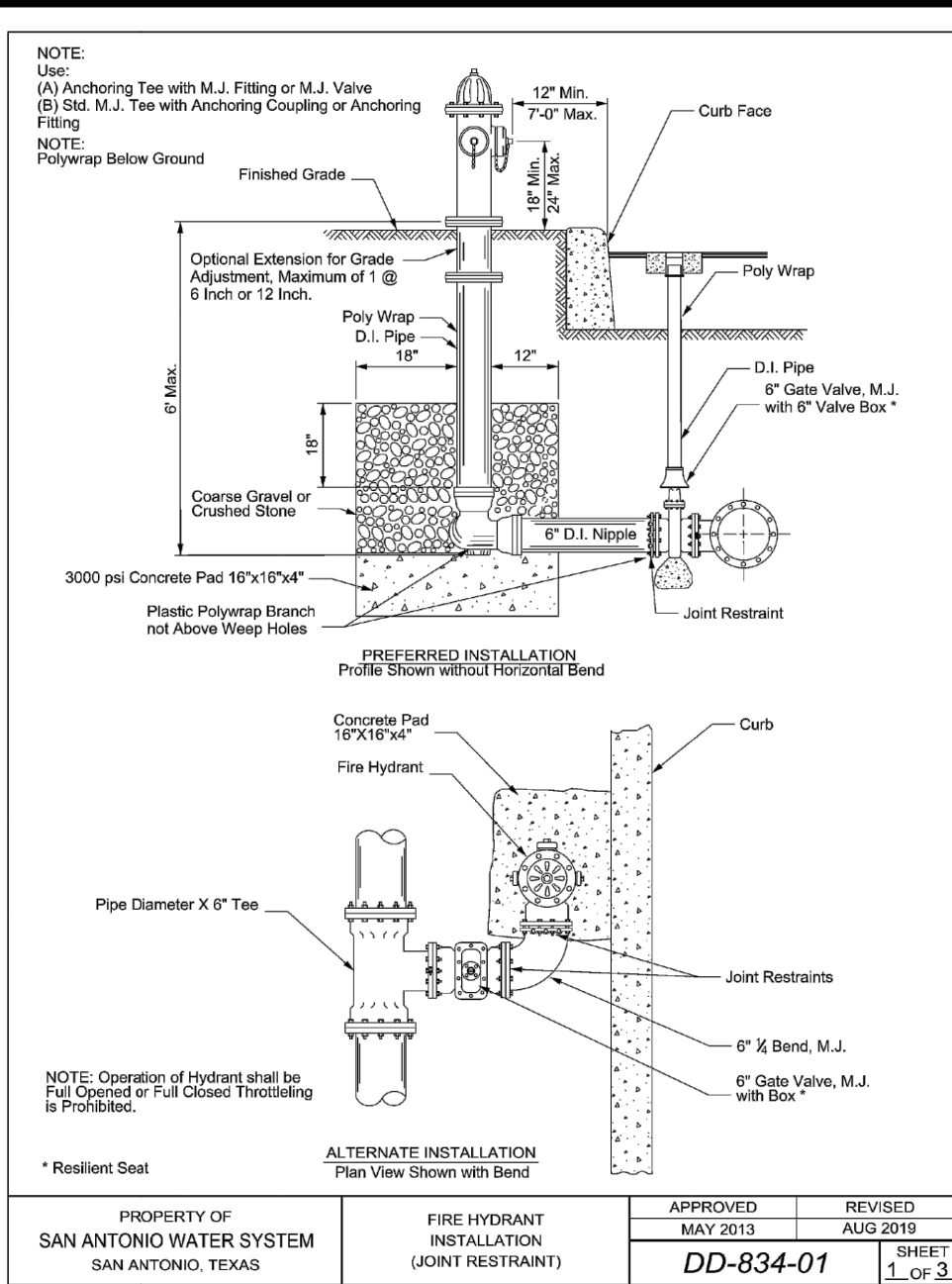
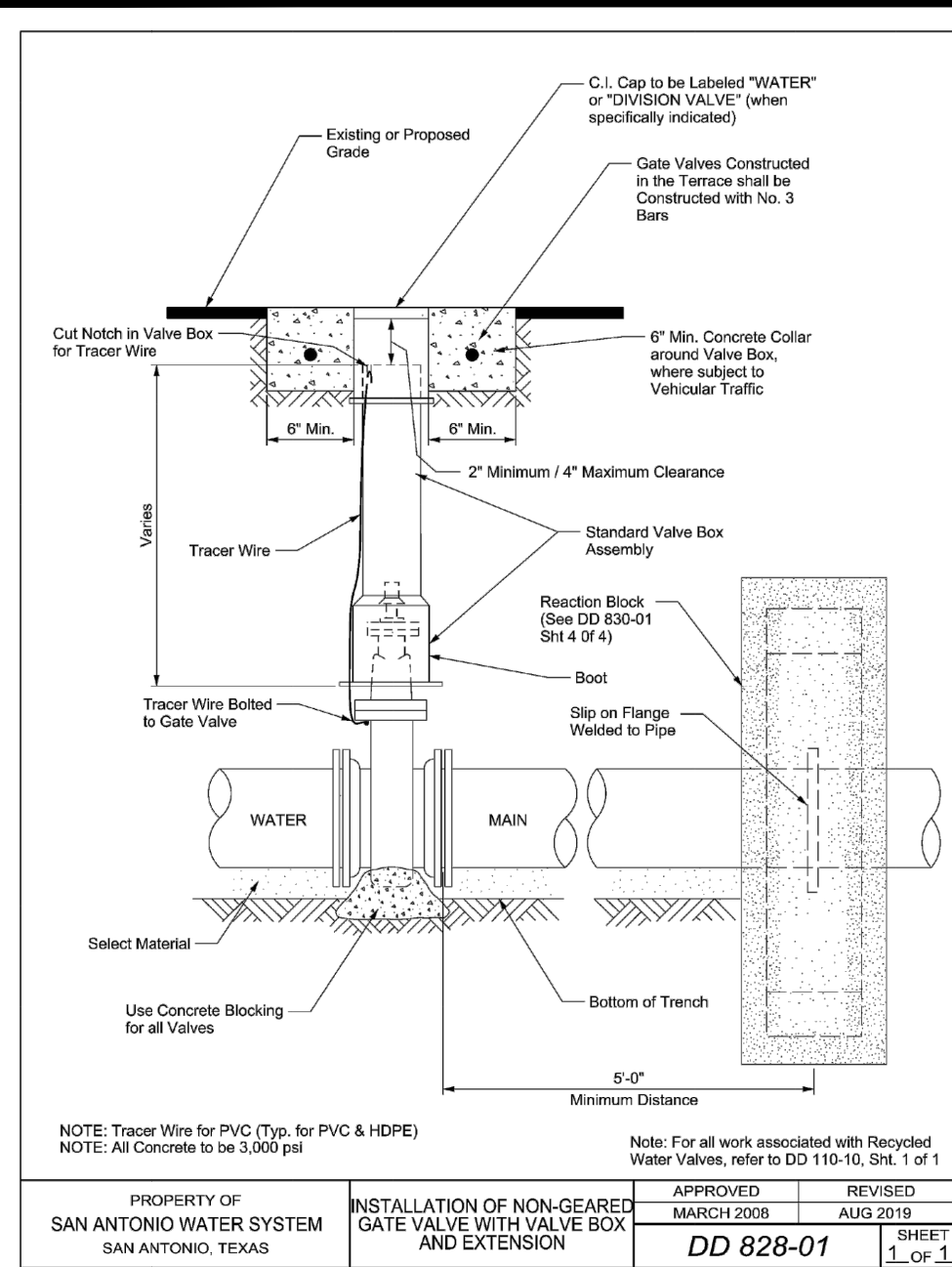
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DICKERSON TAUSCH PROPERTIES, LLC
17758 HWY 90 W
CASTROVILLE, TX 78009

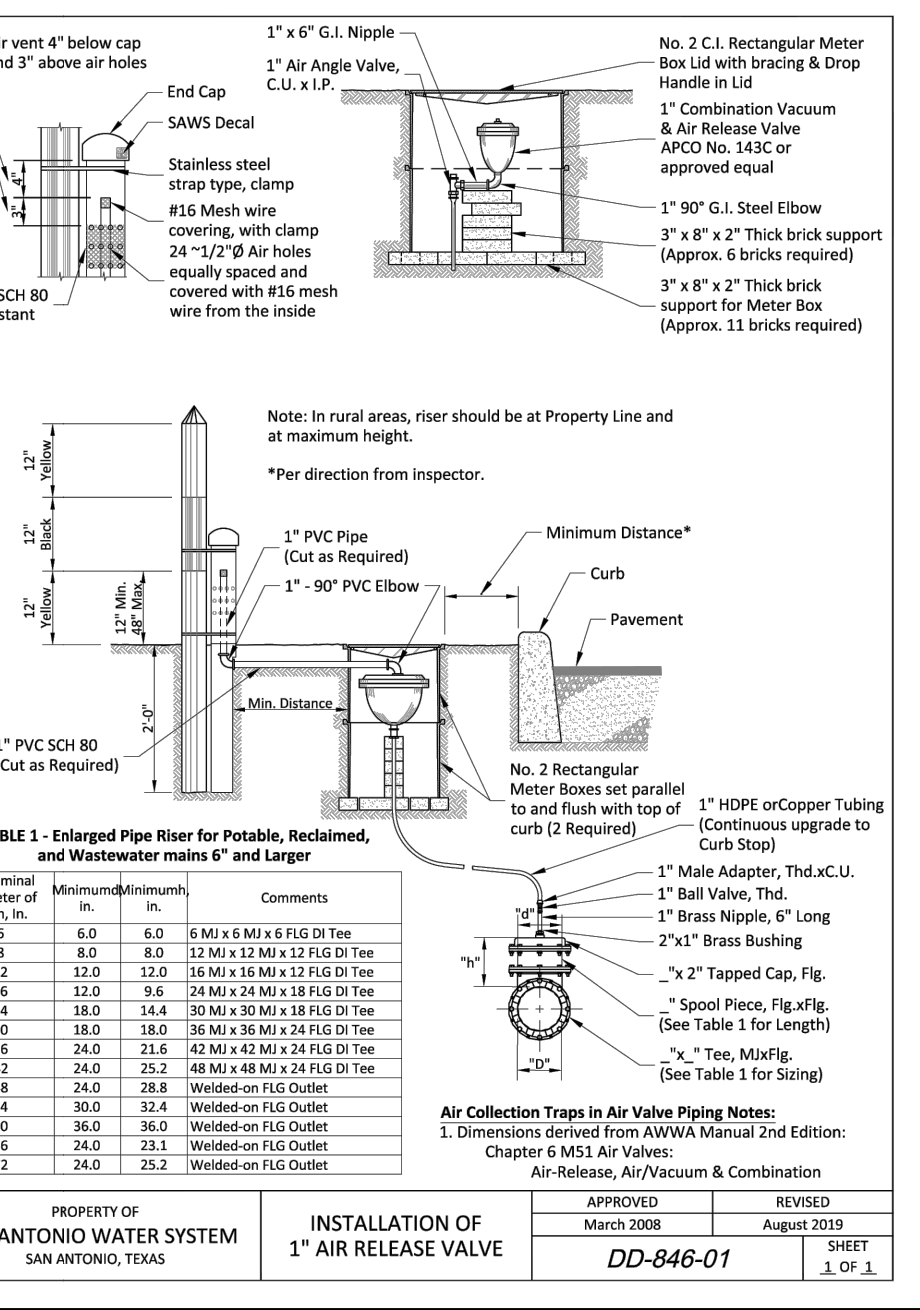
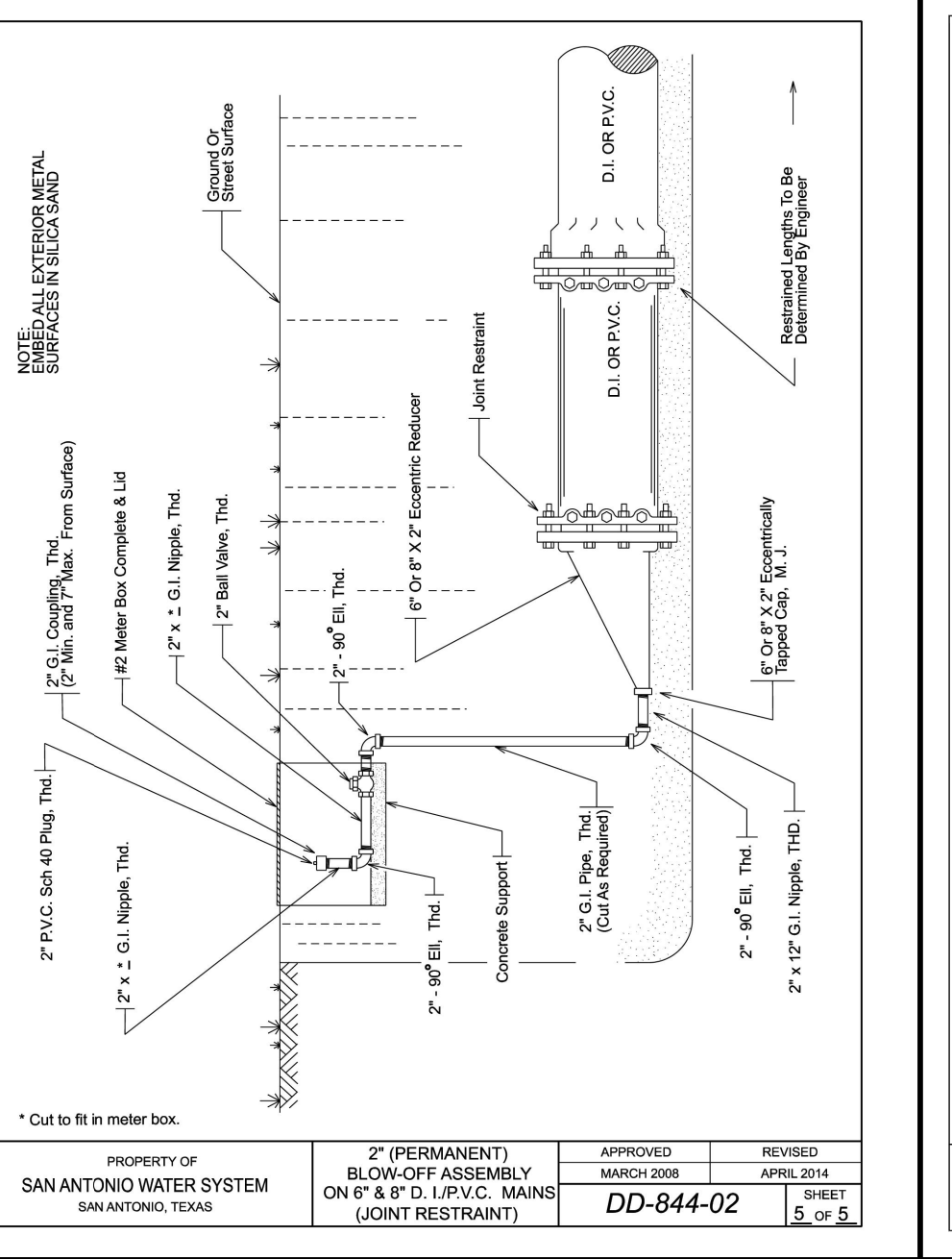
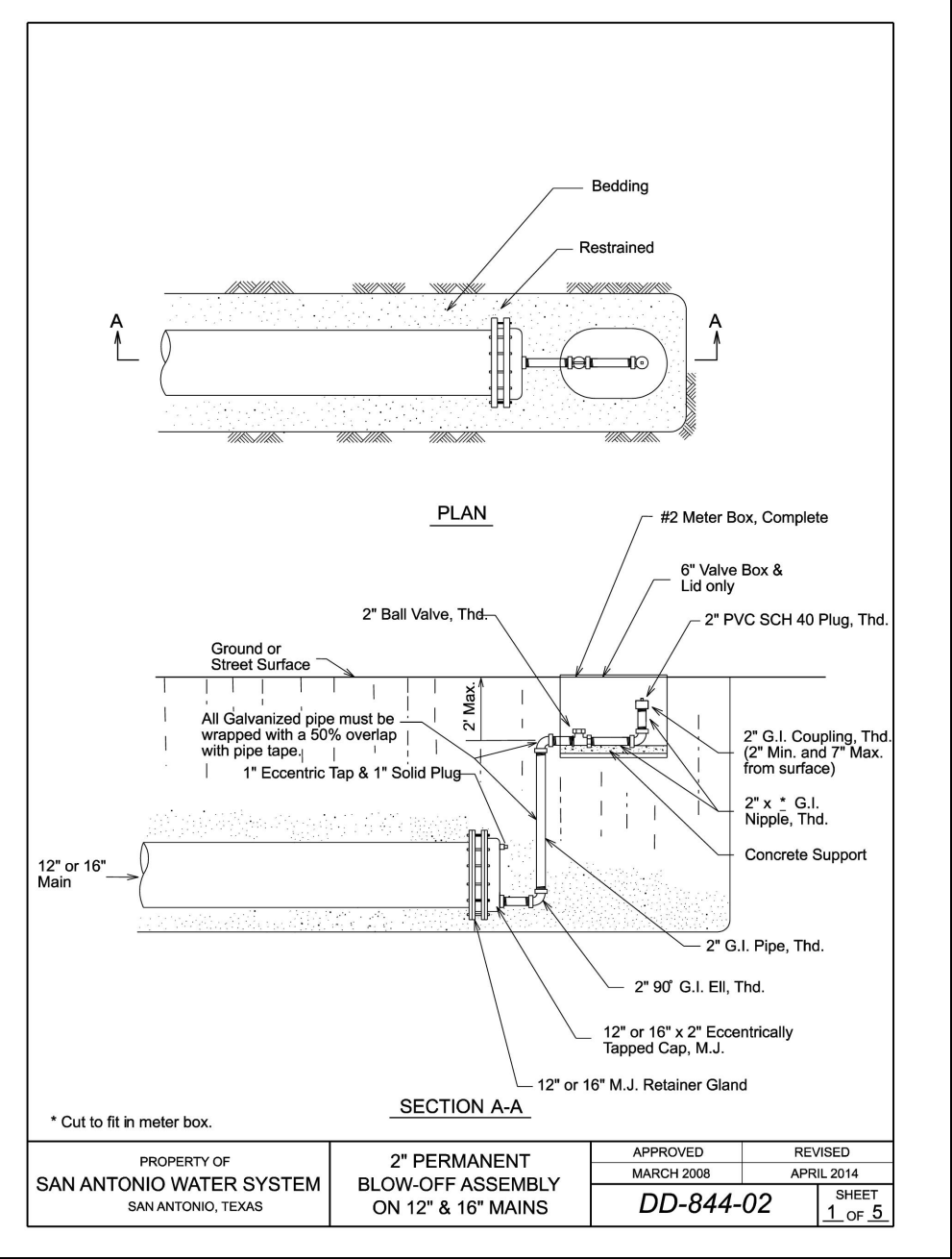
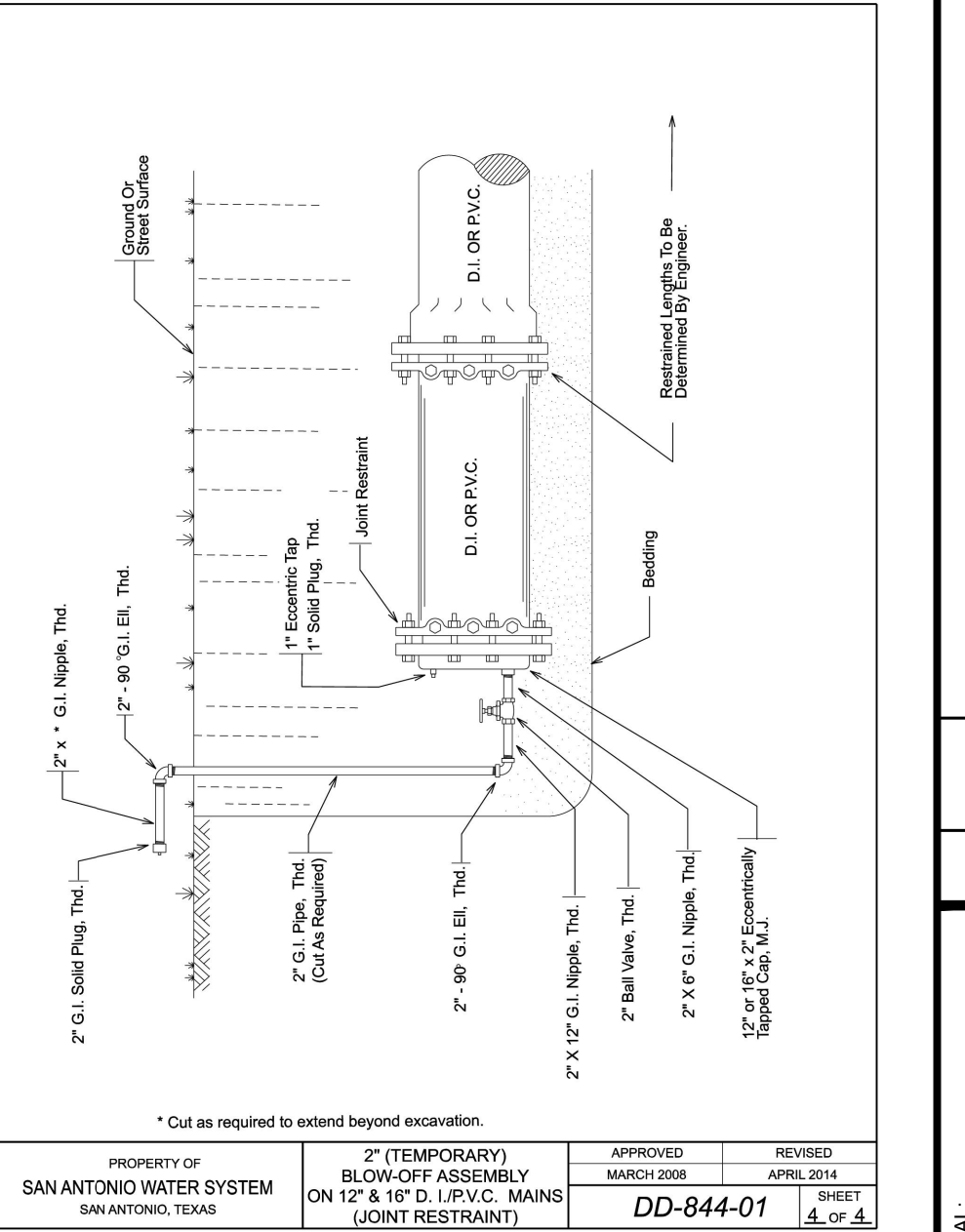
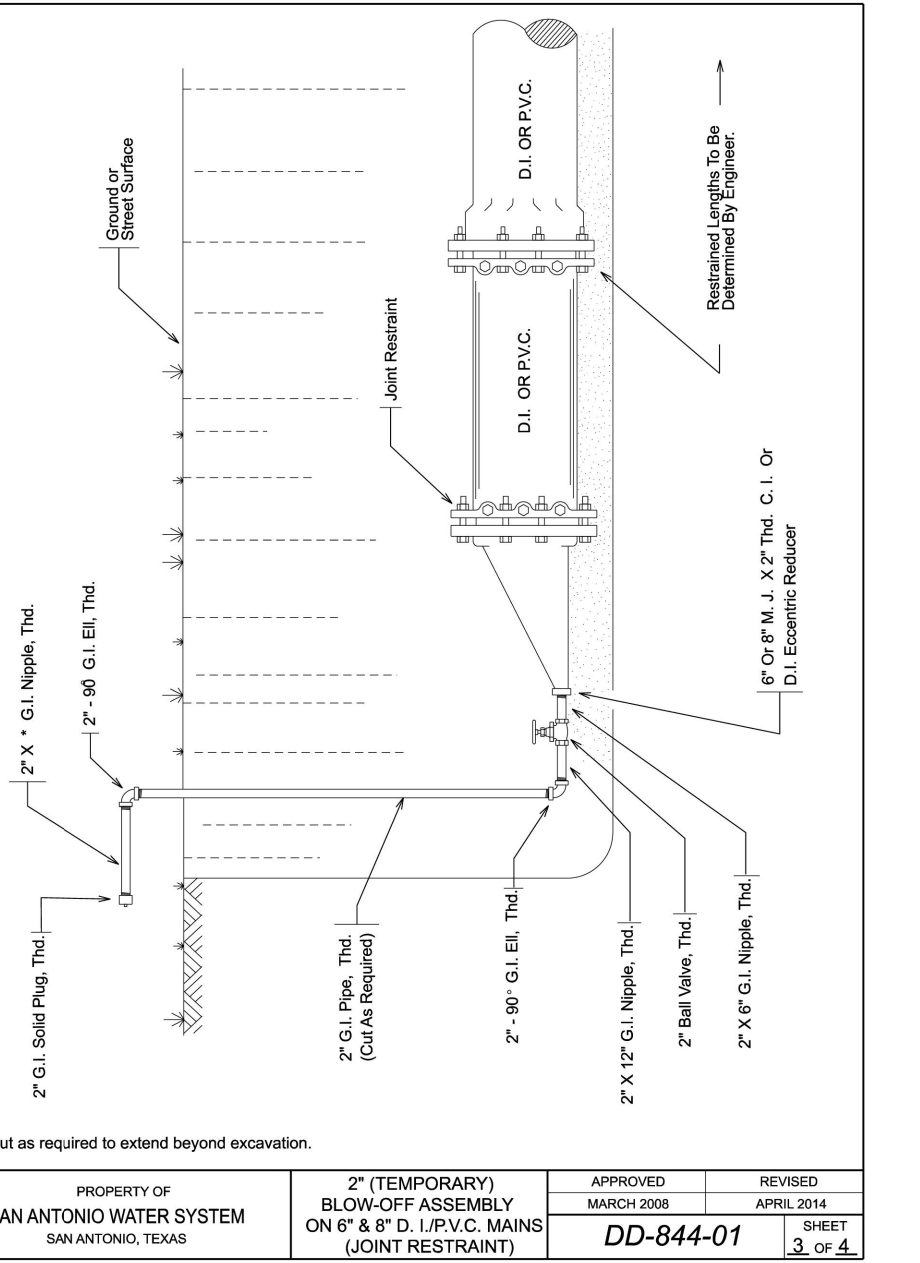
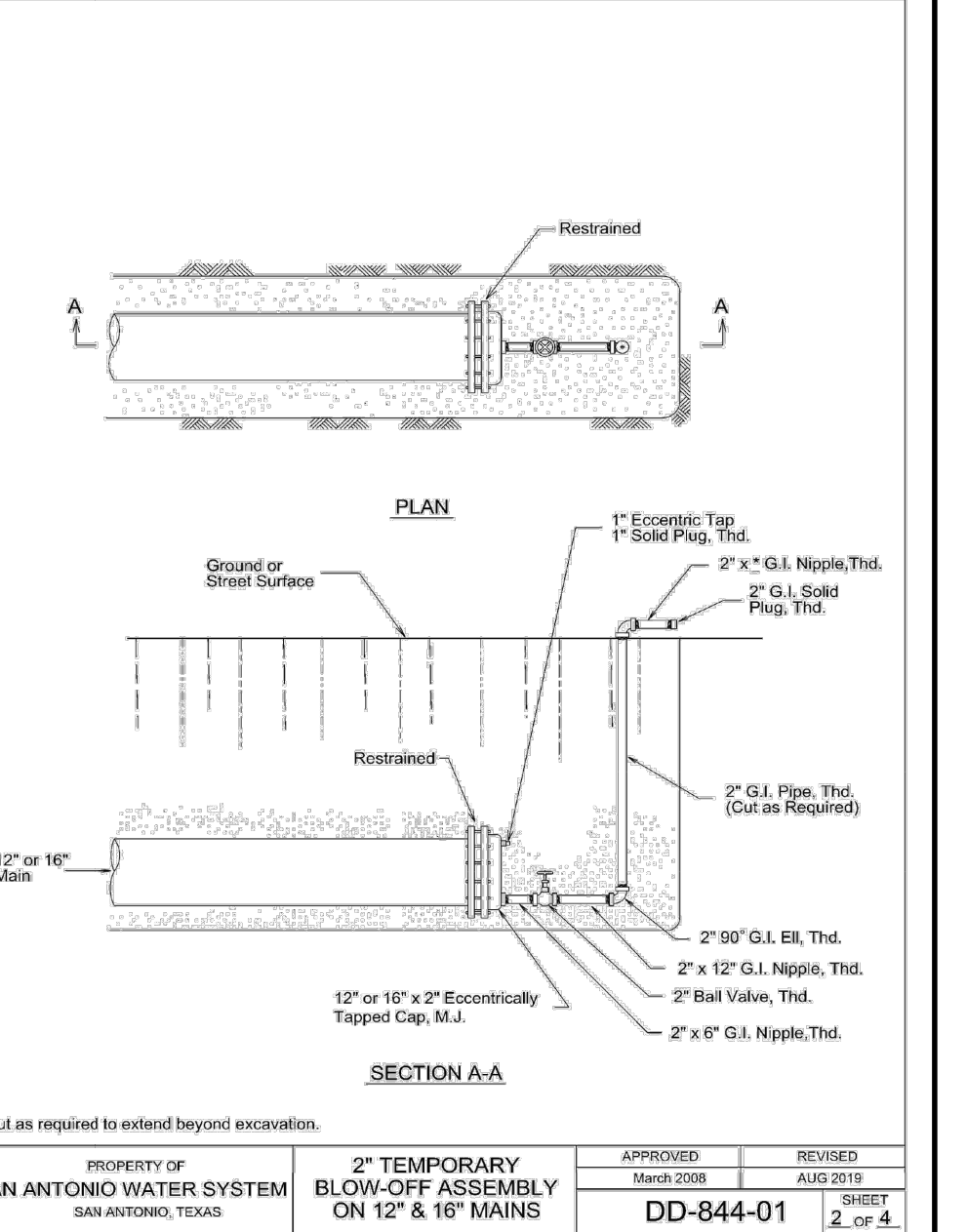
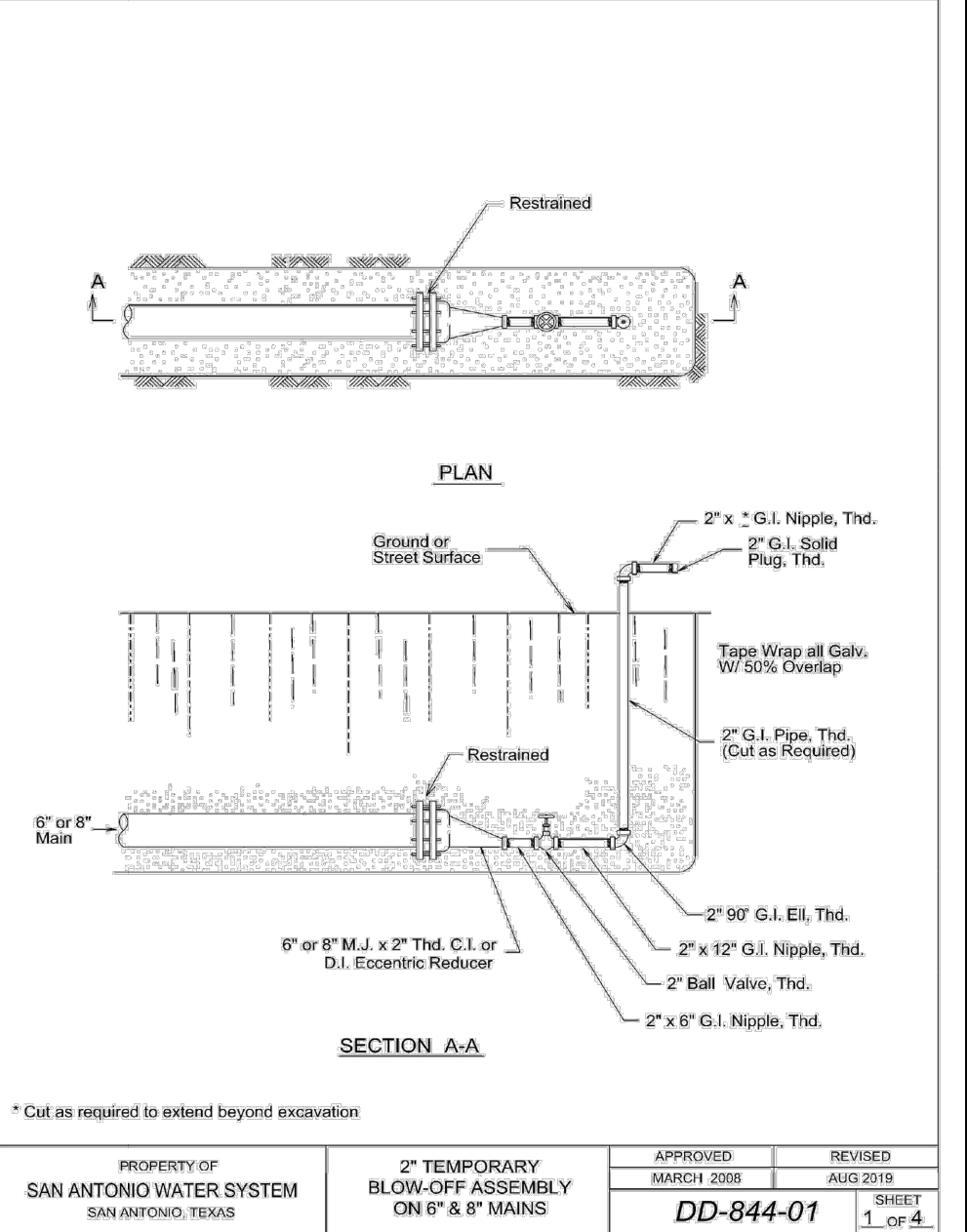
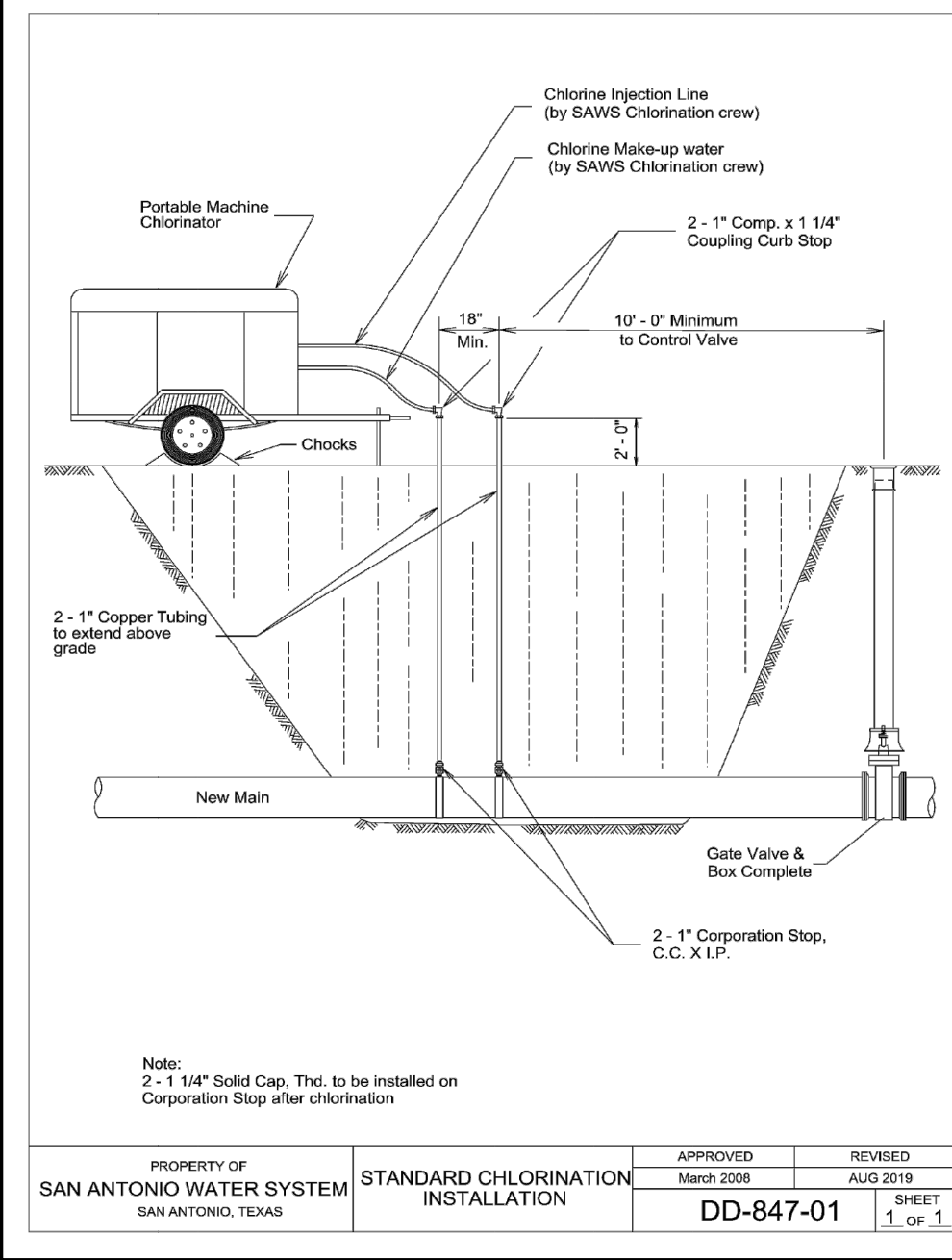
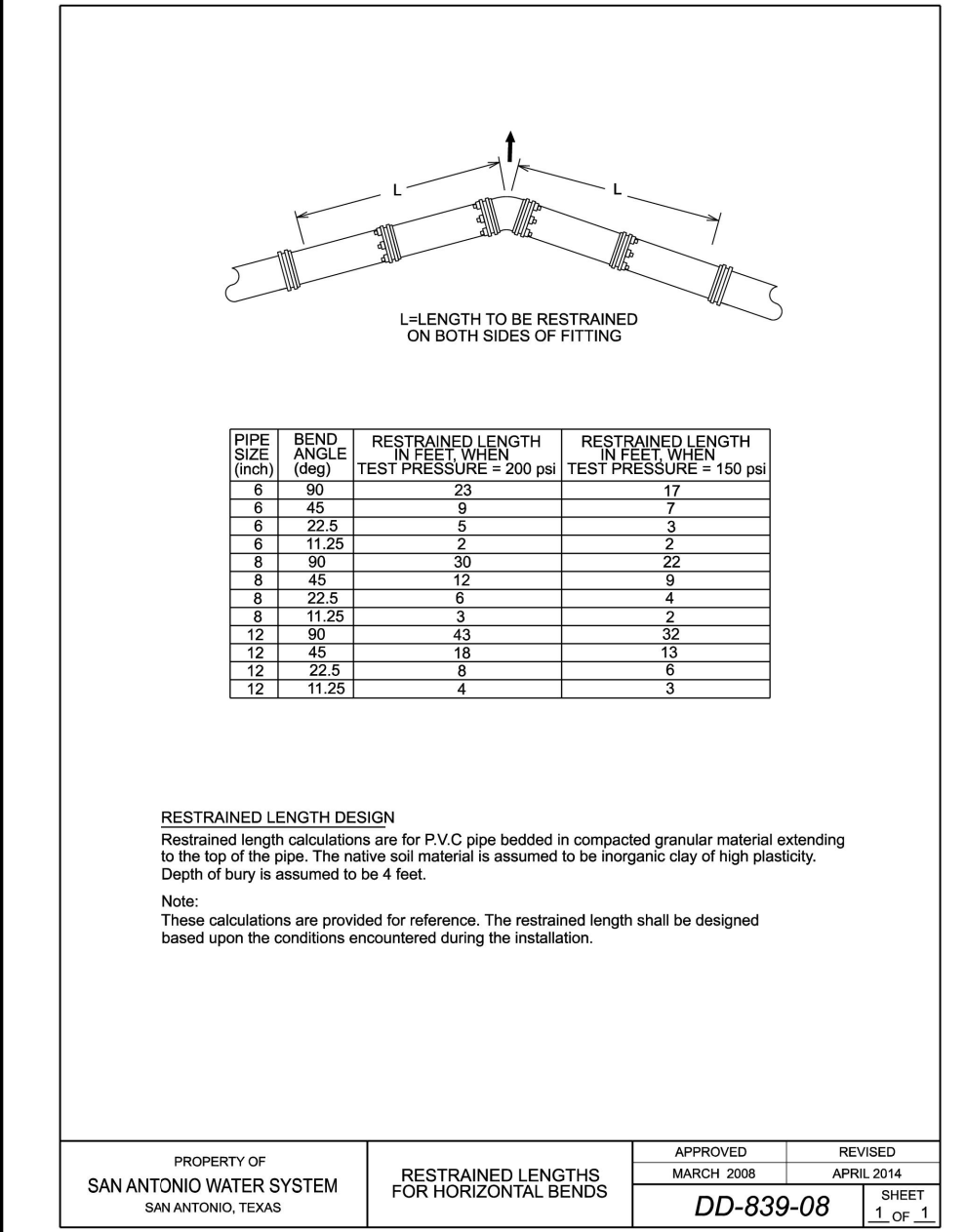
FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
OVERALL WATER PLAN

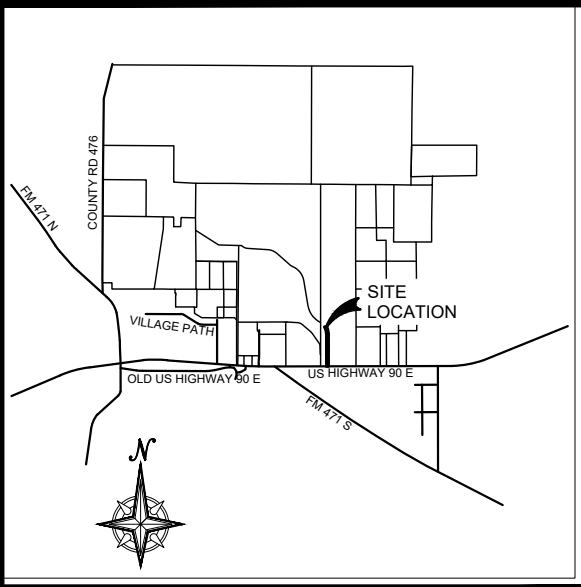
KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65



DRAFTING: S.P.A.M. CHECK: L.E.
DESIGN: L.E. CHECK: C.P.
SUBMITTAL PHASE:
DATE: 03/2024
KCI JOB #: 762308220
SHEET:







LOCATION MAP

STREET & DRAIN CONSTRUCTION PLANS

for

FLAT CREEK COMMERCIAL COLLECTOR

GENERAL NOTES

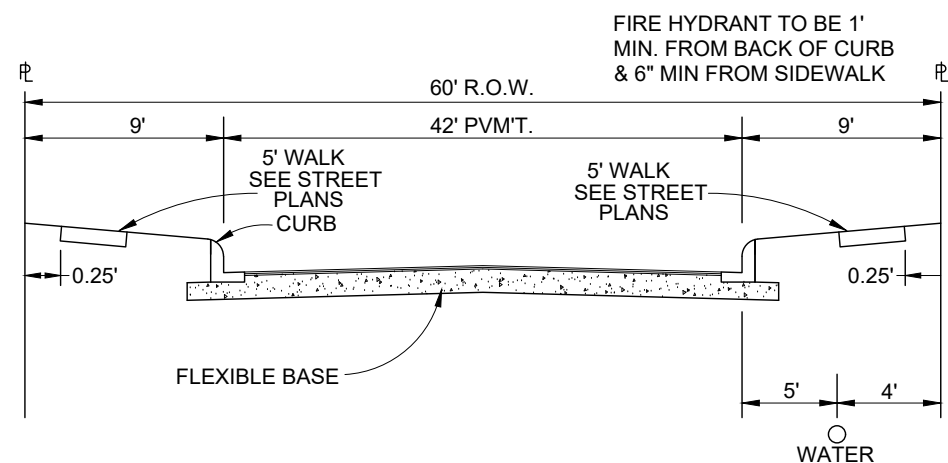
- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL, BE APPROVED BY THE CITY OF **CASTROVILLE** PUBLIC WORKS AND COMPLY WITH THE FOLLOWING AS APPLICABLE:
 - CURRENT "**CASTROVILLE** SUBDIVISION ORDINANCE"
 - REFERENCE TO CURRENT "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION"
 - CURRENT TXDOT "STANDARD SPECIFICATION FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE"
- THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES, INCLUDING SERVICE LATERALS, AND DRAINAGE STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTHS OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT, AND TO PROTECT THE SAME DURING CONSTRUCTION.

CITY OF CASTROVILLE PUBLIC WORKS 830 931-4090
- THE CONTRACTOR SHALL NOTIFY THE CITY PRIOR TO THE START OF EACH PHASE OF STREET CONSTRUCTION AND CALL FOR INSPECTIONS WITH A MINIMUM OF 48 HOURS NOTICE.
- TESTING WILL BE PAID FOR BY DEVELOPER, COORDINATED BY CONTRACTOR, AND WITNESSED BY CITY.
- TESTING SCHEDULE:

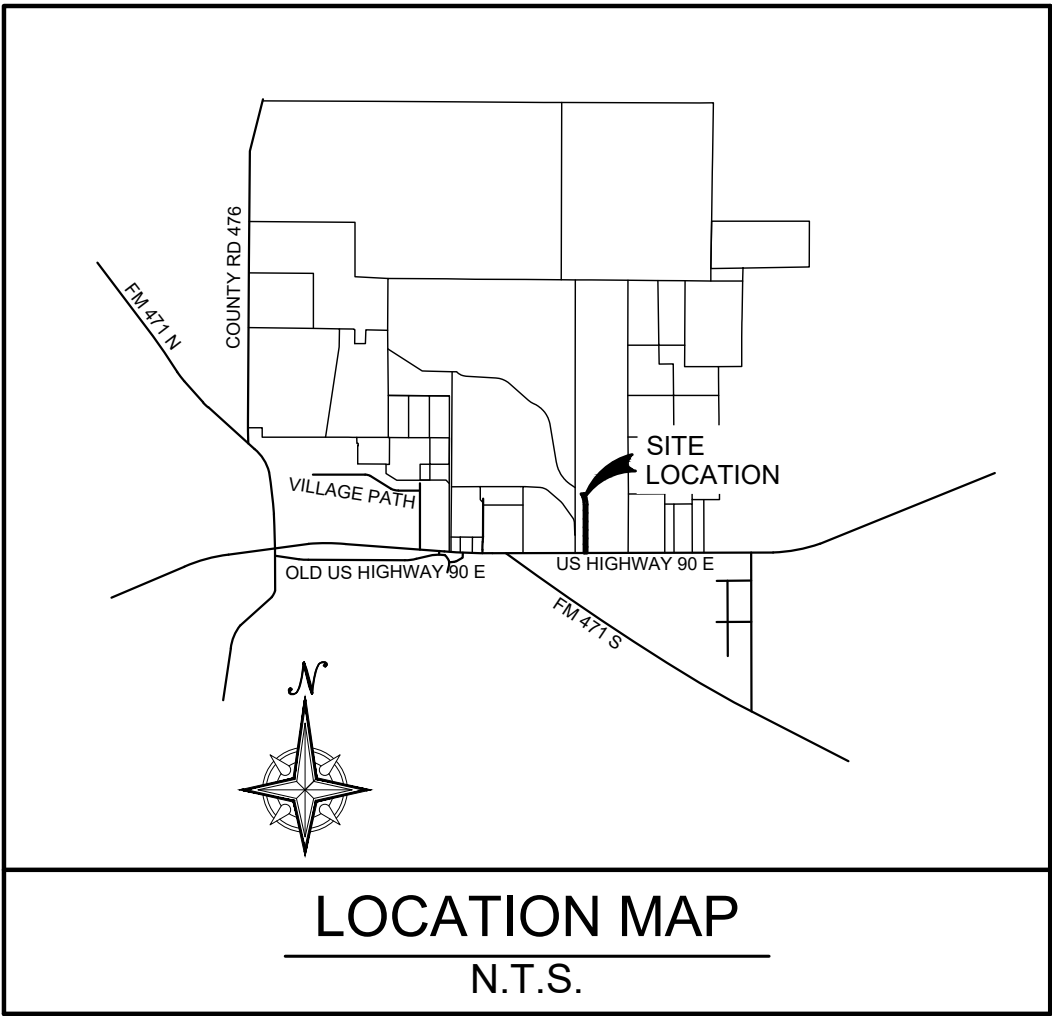
DENSITIES - SUBGRADE	1 PER 500 FOOT MINIMUM
DENSITIES - BASE	1 PER 500 FOOT MINIMUM
PROCTORS - SUBGRADE	1 PER MATERIAL PER SUBDIVISION
PROCTORS - BASE	1 PER 5,000 C.Y.
LIME SERIES - SUBGRADE	1 PER MATERIAL PER SUBDIVISION
CONCRETE - STRUCTURES	1 SET (3) PER 50 C.Y.
- TRANSITION WASHOUT CROWN TO NORMAL CROWN IN 25'.
- NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS, BUT NOT INCLUDED IN THE BID PROPOSAL. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING FENCES, CONCRETE ISLANDS, STREET PAVING, CURBS, SHRUBS, BUSHES OR DRIVEWAYS. (NO SEPARATE PAY ITEM).
- DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.171 CPS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR TWENTY FOUR (24) HOURS PRIOR TO BACKFILL OF ANY UTILITY TRENCHES TO SCHEDULE FOR DENSITY TEST AS REQUIRED.
- ALL WASTE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE PROJECT. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING ARTIFICIAL OR NATURAL DRAINAGE.
- THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.
- THE CONTRACTOR SHALL MAINTAIN ALL ADJOINING STREETS AND TRAVELED ROUTES FREE FROM SPILLED AND/OR TRACKED CONSTRUCTION MATERIALS AND/OR DEBRIS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL SIGNS AND BARRICADES ARE PROPERLY INSTALLED AND MAINTAINED. ALL LOCATIONS AND DISTANCES WILL BE DECIDED UPON IN THE FIELD BY THE CONTRACTOR, USING THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE CITY'S CONSTRUCTION INSPECTOR WILL ONLY BE RESPONSIBLE TO INSPECT BARRICADES AND SIGNS. IF, IN THE OPINION OF THE CONSTRUCTION INSPECTOR, THE BARRICADES AND SIGNS DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE INSPECTOR SHALL HAVE THE OPTION TO STOP OPERATIONS UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



TYPICAL COLLECTOR STREET SECTION



LOCATION MAP
N.T.S.

Sheet List Table

Sheet Number	Sheet Title
500	STREET & DRAINS COVER
501	OVERALL GRADING PLAN
502	KINGS CREEK PLAN & PROFILE
503	KINGS CREEK PLAN & PROFILE
504	US-90 RIGHT TURN LANE PLAN AND PROFILE
504.1	US-90 RIGHT TURN LANE PLAN AND PROFILE
505	DRAIN A DEMOLITION PLAN
506	DRAIN A PLAN & PROFILE
507	DRAIN B PLAN AND PROFILE
508	DRAIN C1 PLAN AND PROFILE
509	DRAIN C2 PLAN AND PROFILE
510	DRAIN D PLAN AND PROFILE
511	DRAIN D PLAN AND PROFILE
512	STREET DETAILS
513	STREET DETAILS
514	DRAIN DETAILS
515	DRAIN DETAILS
516	DRAIN DETAILS
517	OVERALL SIGN PLAN
518	SIGN DETAILS
519	SIGN DETAILS
520	SIGN DETAILS
521	SIGN DETAILS

LEGEND

WHEEL CHAIR RAMPS -	110P
WASHOUT CROWN -	110P
SIDEWALK TO BE BUILT BY DEVELOPER -	110P
TOP OF CURB ELEVATION -	110P
PROPOSED STREET LIGHT (100 WATT/SINGLE ARM) -	110P
EXISTING STREET LIGHT -	110P
PROPOSED DRIVEWAY -	110P

OWNER/DEVELOPER:

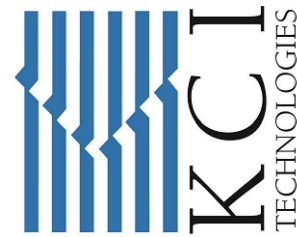
KF FLAT CREEK, L.P.
2722 W. BITTERS, RD. SUITE 106
SAN ANTONIO, TEXAS 78259
(210) 882-6800



PREPARED BY:

KCI TECHNOLOGIES, INC.
2806 W. BITTERS, RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
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REGISTRATION #F-10573 / #101943-65

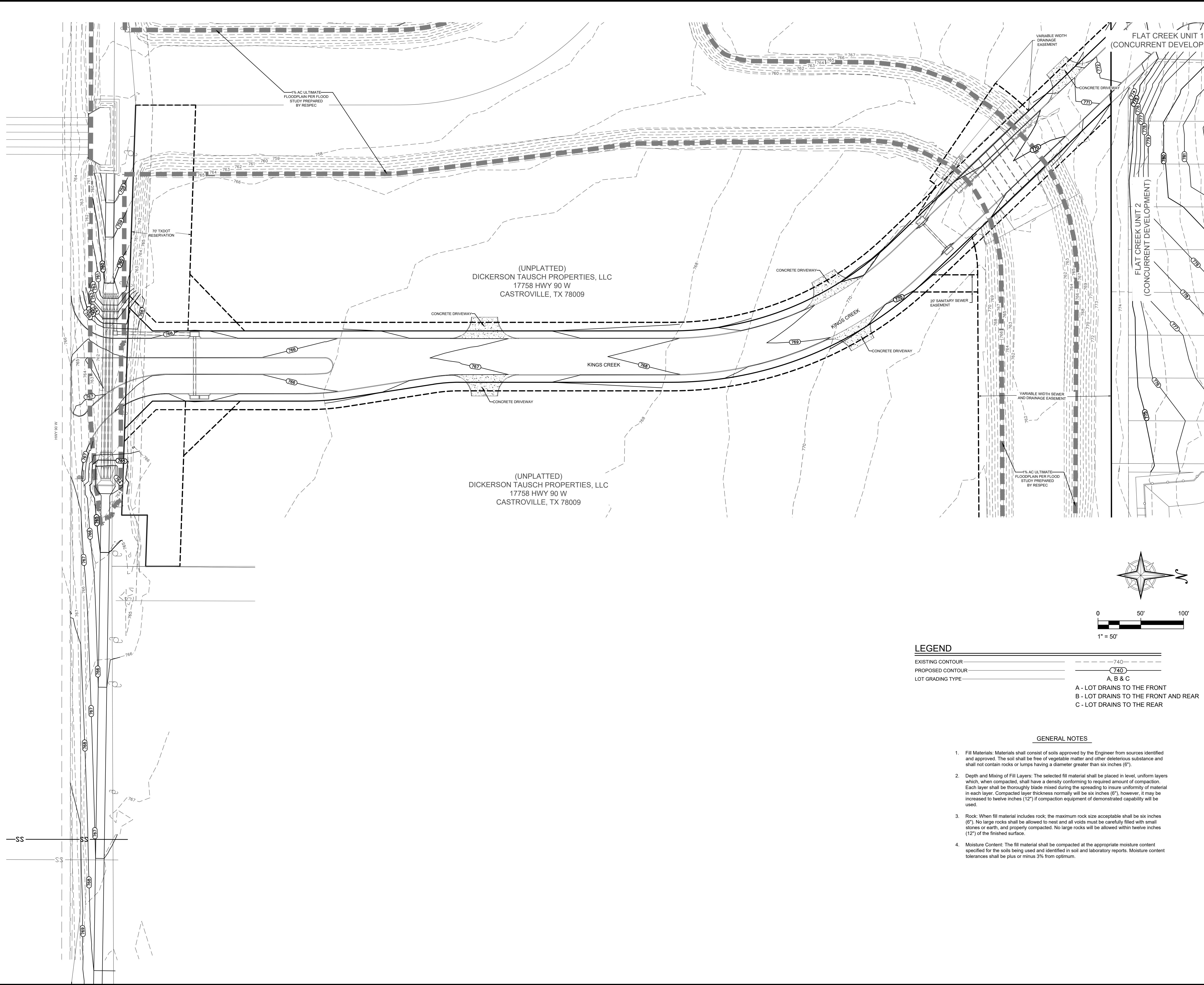
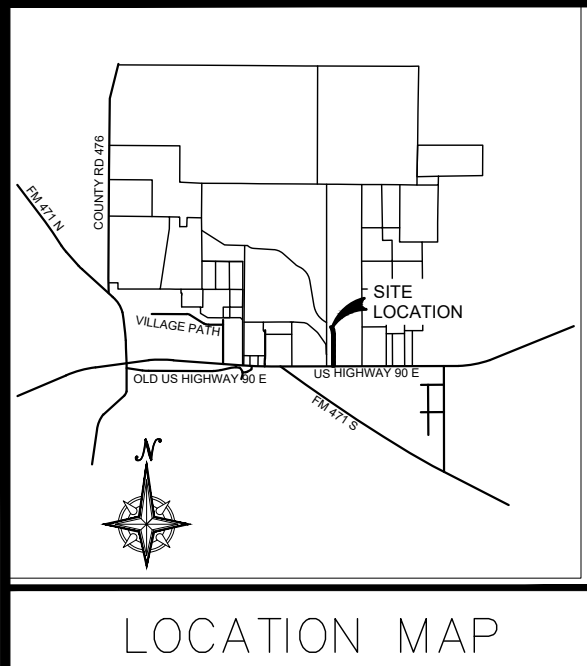


FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
STREET & DRAINS COVER

DRAFTING: G.P.A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.P.
SUBMITTAL PHASE:	
DATE:	03/2024
KCI JOB #:	762308220
SHEET:	

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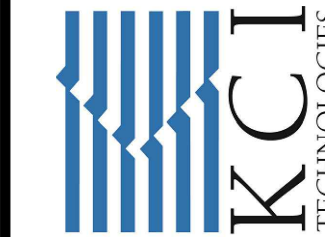


FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
OVERALL GRADING PLAN

DRAFTING: G.P.A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.P.
SUBMITTAL PHASE:	
DATE:	03/2024
KCI JOB #:	762308220
SHEET:	

501

KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65

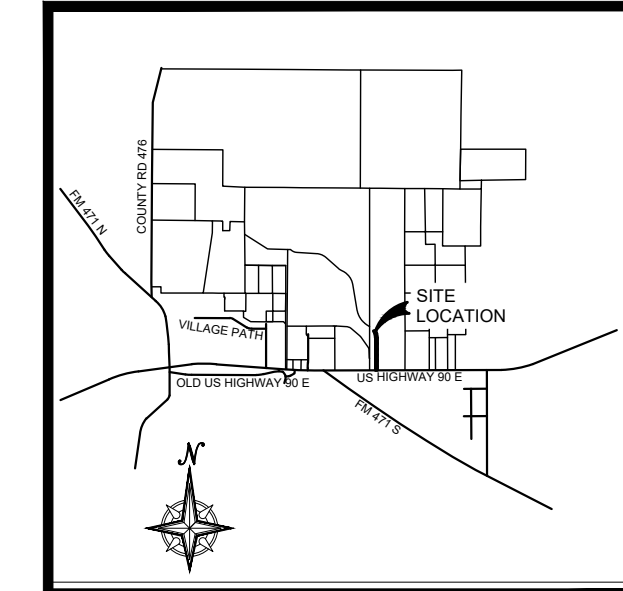


FOR BIDDING
PURPOSES ONLY
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION

SEAL:

Date: Nov 18, 2024, 14:00pm User: G:\Users\GPA\OneDrive\Projects\762308220\Flat Creek Subdivision-Collector\Drawings\762308220_501_OVRALL GRADING PLAN.dwg



LOCATION MAP

Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	305.09'	400.00'	043°42'05"	N22° 01' 39"W	297.75'
C2	156.72'	100.00'	089°47'33"	N45° 04' 23"W	141.17'
C3	46.51'	300.00'	008°52'59"	N4° 37' 06"W	46.46'
C4	46.33'	50.00'	053°05'08"	N62° 58' 13"E	44.69'
C5	31.94'	50.00'	036°36'15"	N18° 07' 31"E	31.40'

Line Table		
Line	Length	Direction
L1	751.21'	N00°10'30"W
L2	328.04'	N43°52'41"W

STREETLIGHT NOTE
STREETLIGHT POLES TO BE IN OPEN GREEN SPACE WHERE SHOWN ON PLANS.

DRIVEWAY NOTE
DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP. DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.

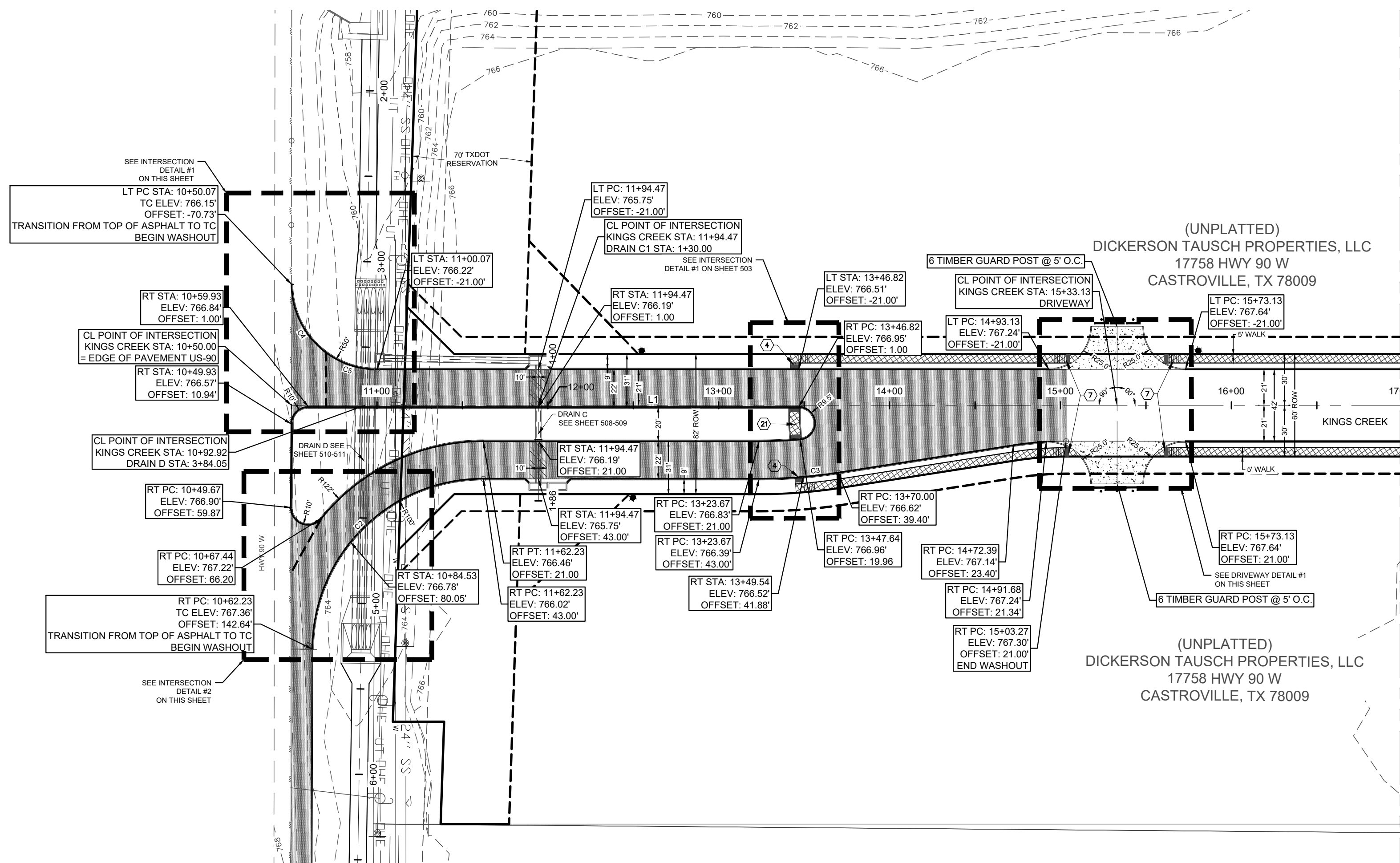
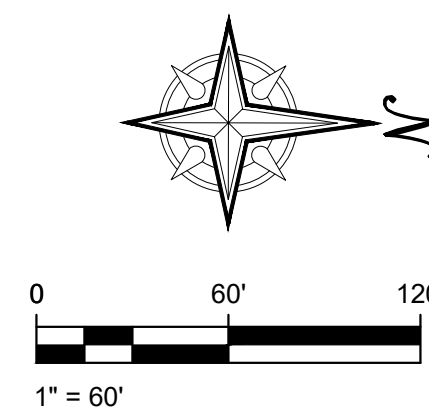
MEDINA COUNTY PERMIT NOTE:
MEDINA COUNTY RIGHT OR WAY PERMIT MUST BE OBTAINED PRIOR TO WORKING IN EXISTING MEDINA COUNTY RIGHT OF WAY.

HEADER CURB NOTE:
HEADER CURB TO BE TRANSITIONED TO STD. CURB IN 2'.

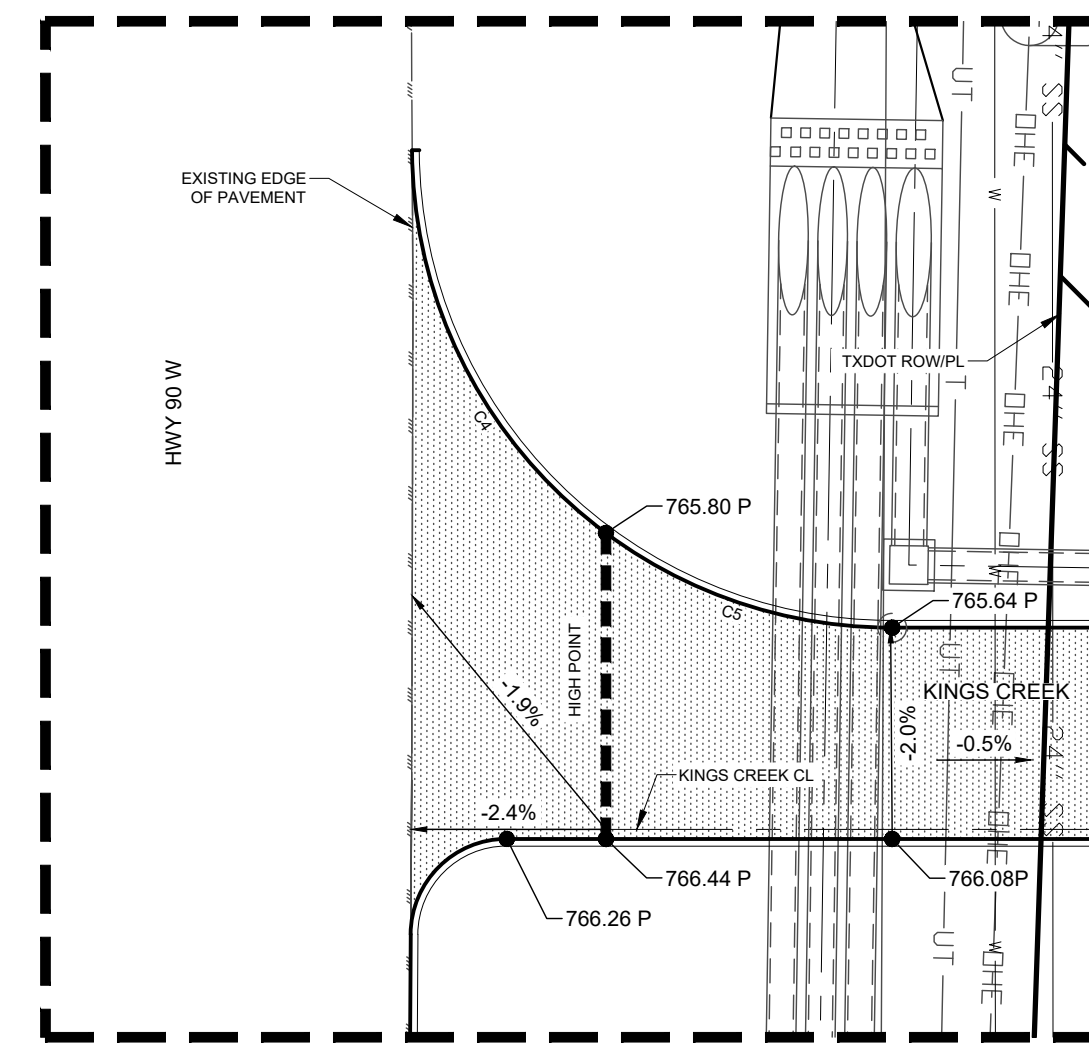
- 1 CITY OF SAN ANTONIO WHEELCHAIR RAMP - TYPE I
- 2 CITY OF SAN ANTONIO WHEELCHAIR RAMP - TYPE II
- 3 CITY OF SAN ANTONIO WHEELCHAIR RAMP - TYPE III
- 4 CITY OF SAN ANTONIO WHEELCHAIR RAMP - TYPE IV
- 5 TYPICAL SIDEWALK RAMP - SINGLE
- 6 TXDOT TYPE 7 RAMP
- 7 TXDOT TYPE 21 RAMP
- 8 REFER TO WHEELCHAIR RAMP STANDARDS ON STREET DETAILS.

LEGEND

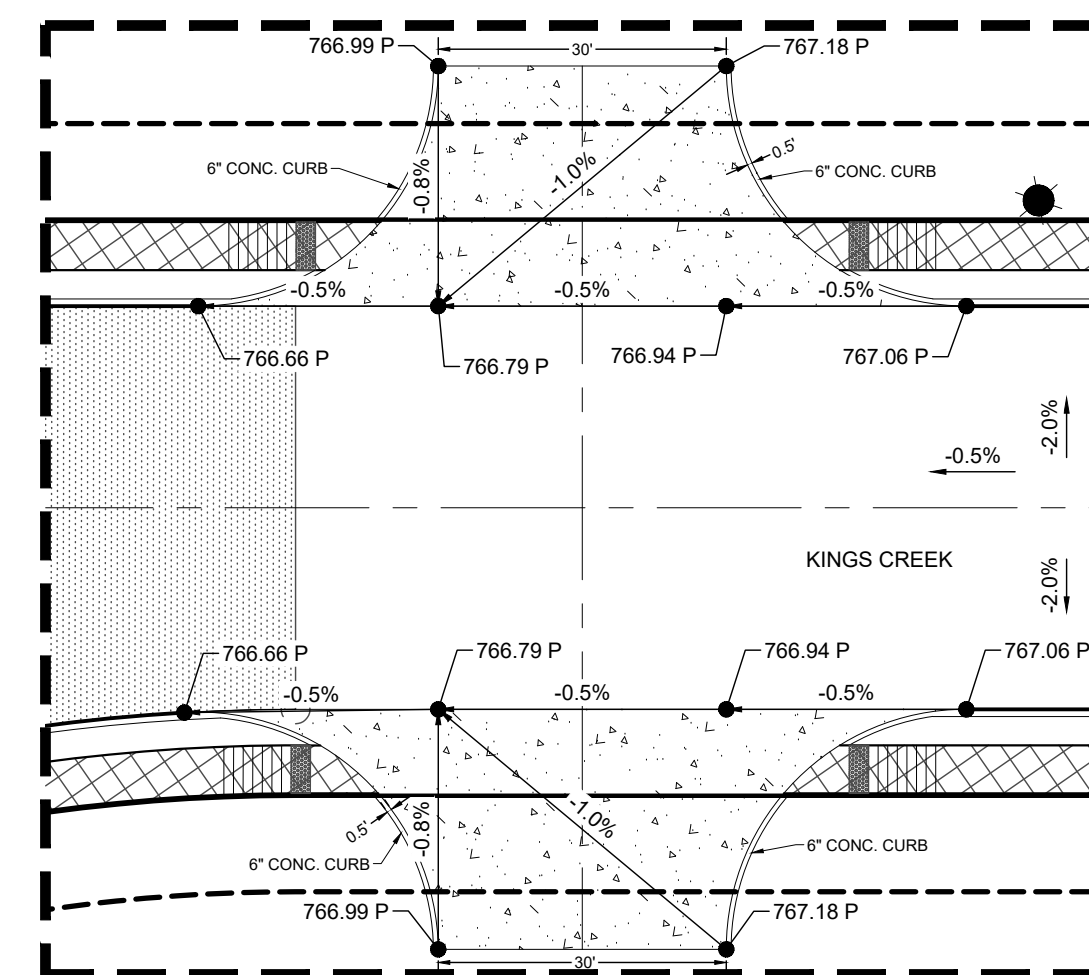
- WHEELCHAIR RAMPS
WASHOUT CROWN
SIDEWALK TO BE BUILT BY DEVELOPER
PROPOSED DRIVEWAY
TOP OF CURB ELEVATION
EXISTING STREET LIGHT
PROPOSED STREET LIGHT (100 WATT)
- 940
★ ELP
● LP



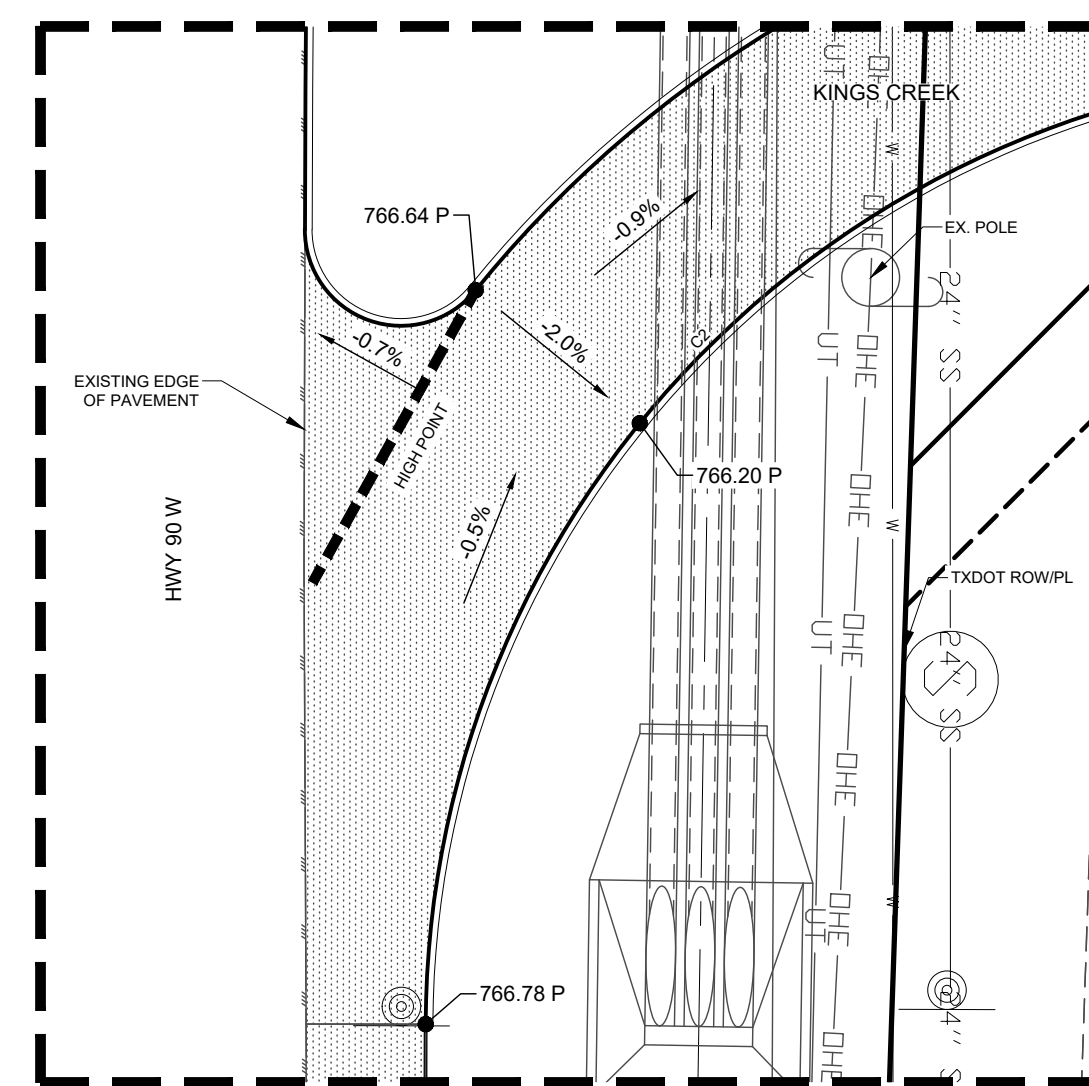
MATCH LINE "A" STA: 17+00.00 - SEE SHEET 503



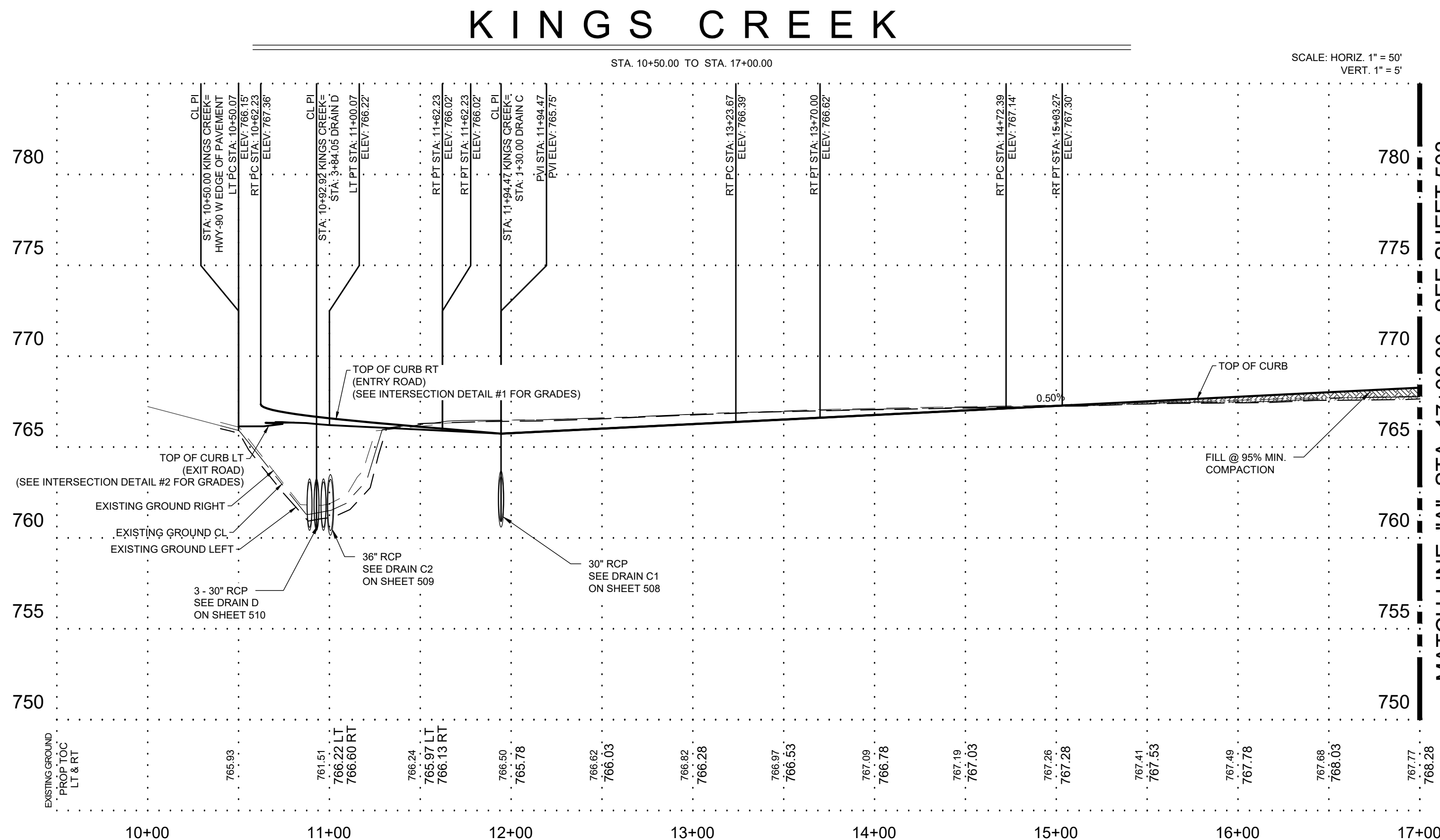
INTERSECTION DETAIL #1



DRIVEWAY DETAIL #1



INTERSECTION DETAIL #2



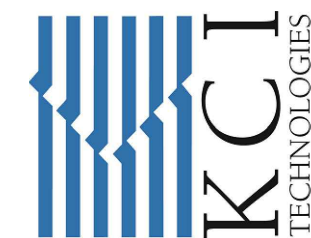
KINGS CREEK

STA: 10+50.00 TO STA: 17+00.00

SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

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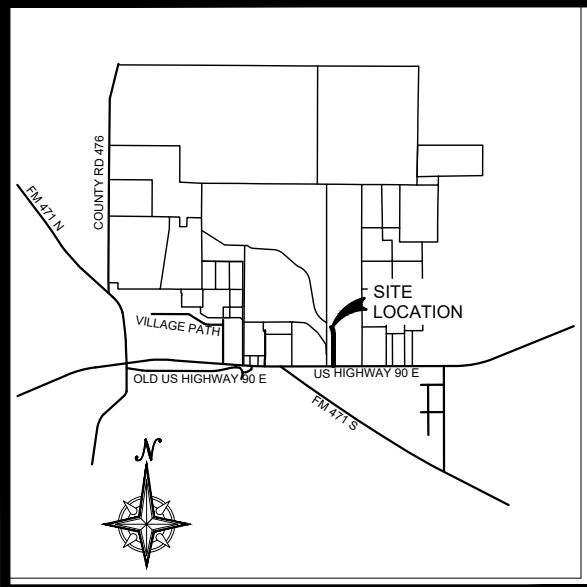
KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65



FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
KINGS CREEK PLAN & PROFILE

DRAFTING: G.P.A.M. CHECK: L.E.
DESIGN: L.E. CHECK: C.P.
SUBMITTAL PHASE:
DATE: 03/2024
KCI JOB #: 762308220
SHEET:

502



LOCATION MAP

Curve Table						
Curve #	Length	Radius	Delta	Chord Direction	Chord Length	
C1	305.09'	400.00'	043°42'05"	N22° 01' 39"W	297.75'	
C2	156.72'	100.00'	089°47'33"	N45° 04' 23"W	141.17'	
C3	46.51'	300.00'	008°52'59"	N4° 37' 06"W	46.46'	
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MEDINA COUNTY PERMIT NOTE:
MEDINA COUNTY RIGHT OF WAY PERMIT MUST BE OBTAINED PRIOR TO WORKING IN EXISTING MEDINA COUNTY RIGHT OF WAY.

HEADER CURB NOTE:
HEADER CURB TO BE TRANSITIONED TO STD. CURB IN 2'.

- 1

CITY OF SAN ANTONIO WHEELCHAIR RAMP - TYPE I
- 2

CITY OF SAN ANTONIO WHEELCHAIR RAMP - TYPE II
- 3

CITY OF SAN ANTONIO WHEELCHAIR RAMP - TYPE III
- 4

CITY OF SAN ANTONIO WHEELCHAIR RAMP - TYPE IV
- 5

TYPICAL SIDEWALK RAMP - SINGLE
- 6

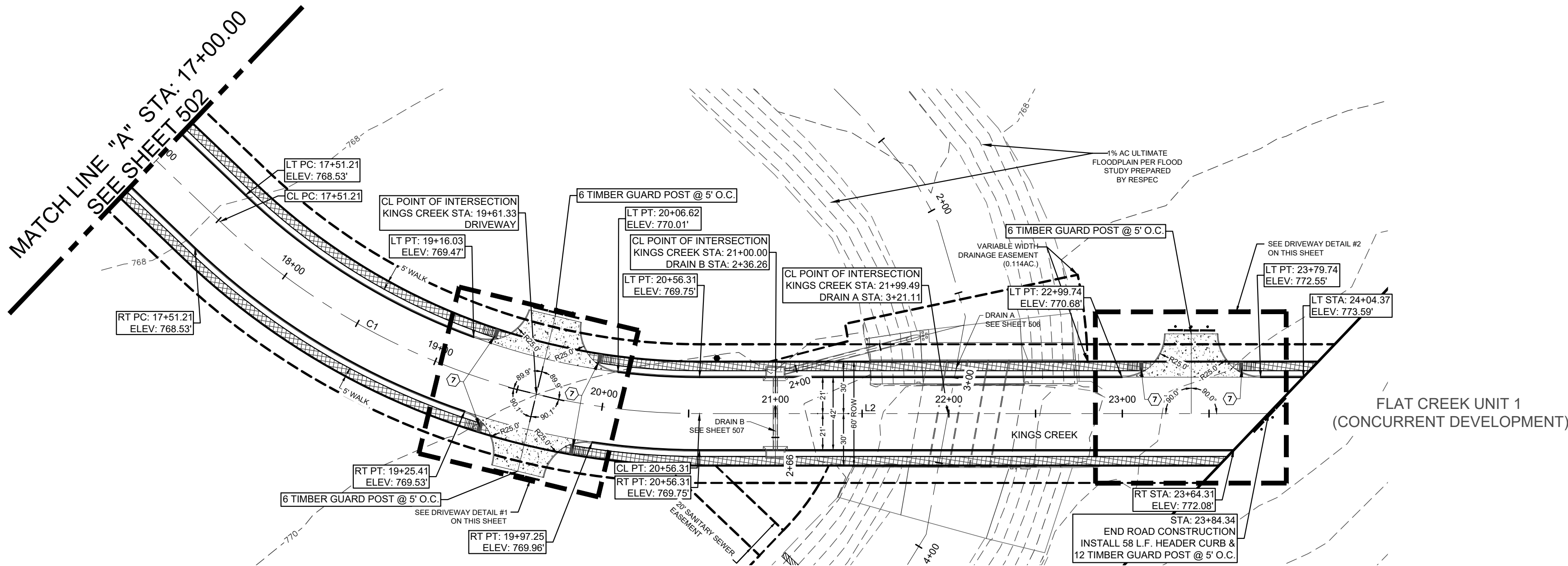
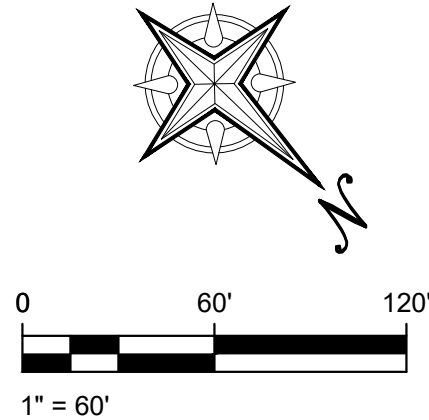
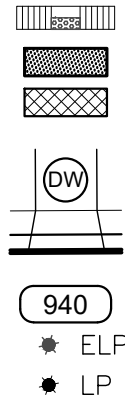
TXDOT TYPE 7 RAMP
- 7

TXDOT TYPE 21 RAMP

REFER TO WHEELCHAIR RAMP STANDARDS ON STREET DETAILS.

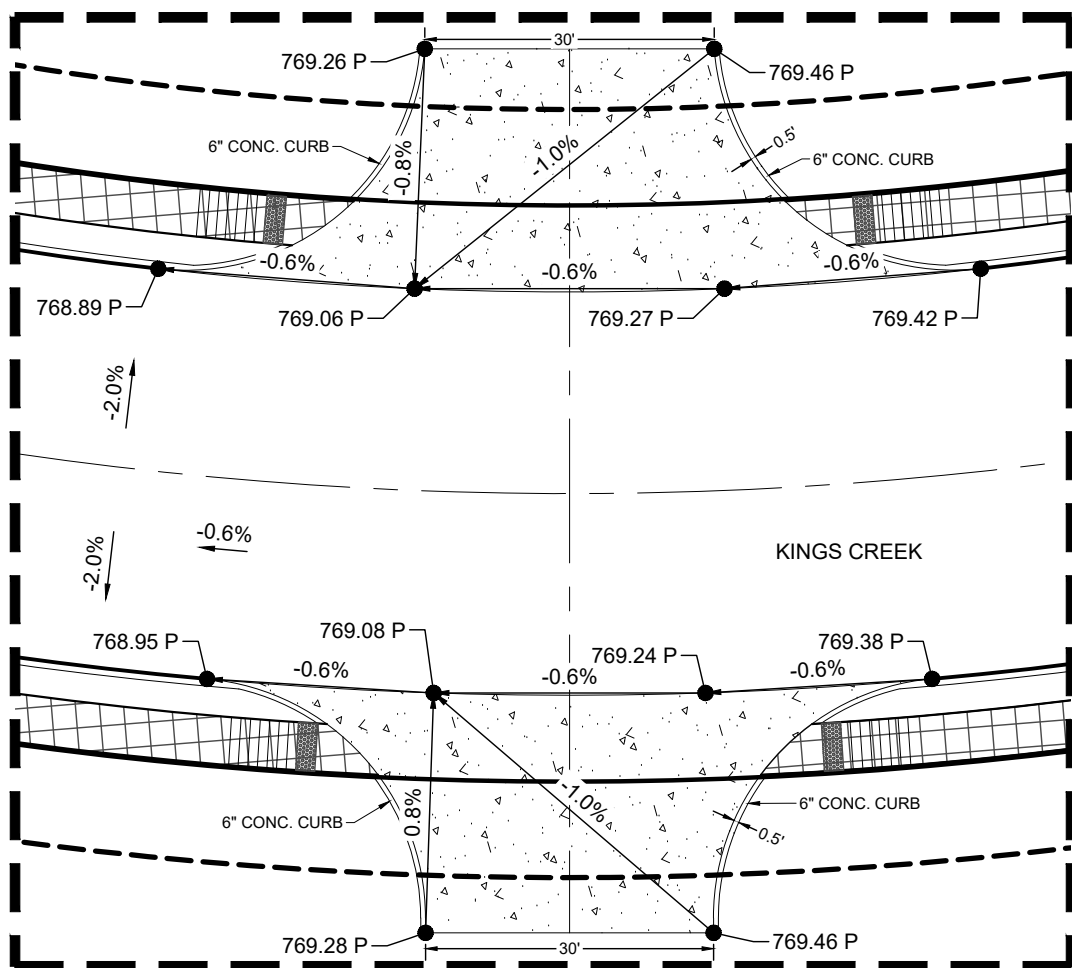
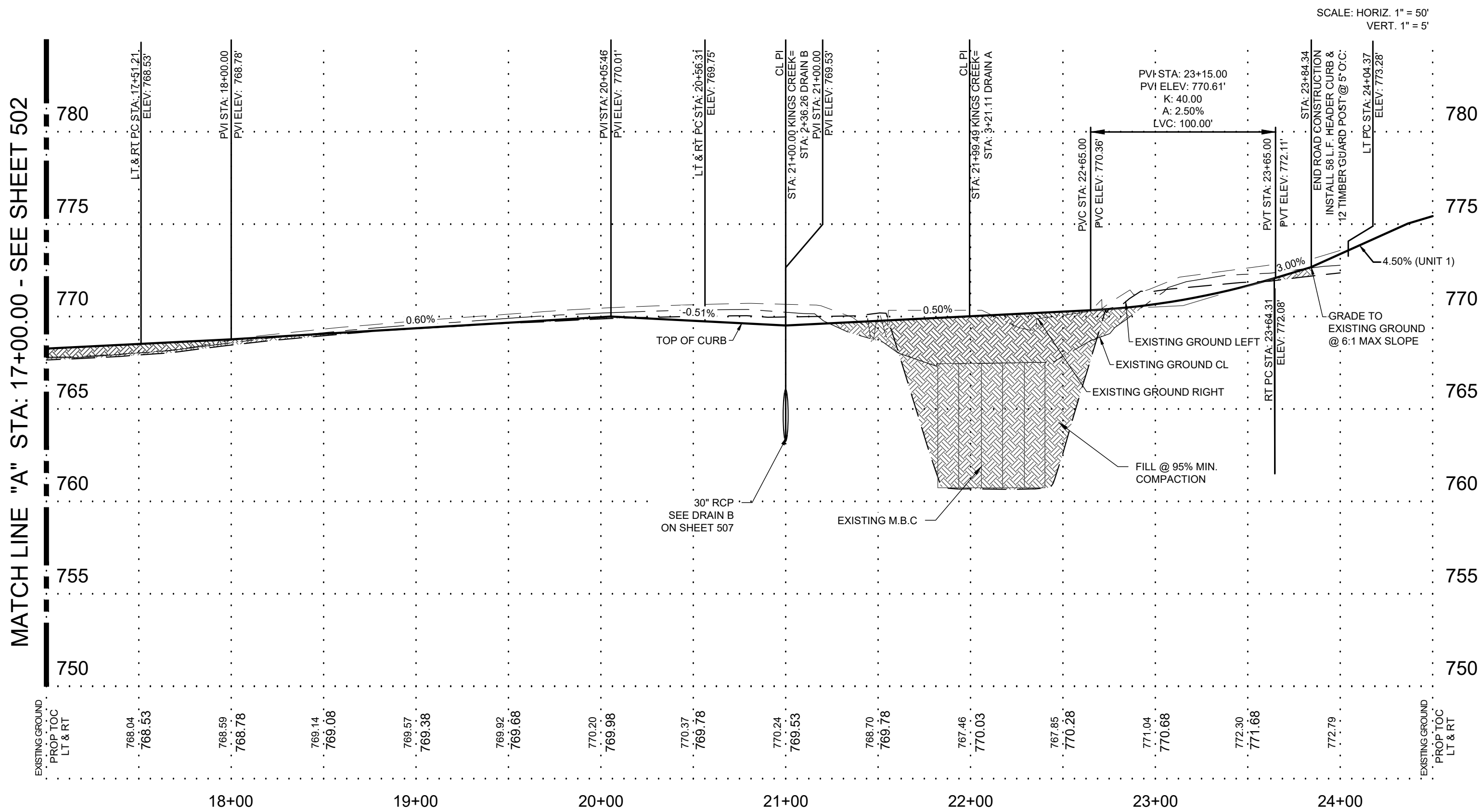
LEGEND

- WHEELCHAIR RAMPS
- WASHOUT CROWN
- SIDEWALK TO BE BUILT BY DEVELOPER
- PROPOSED DRIVEWAY
- TOP OF CURB ELEVATION
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT (100 WATT)



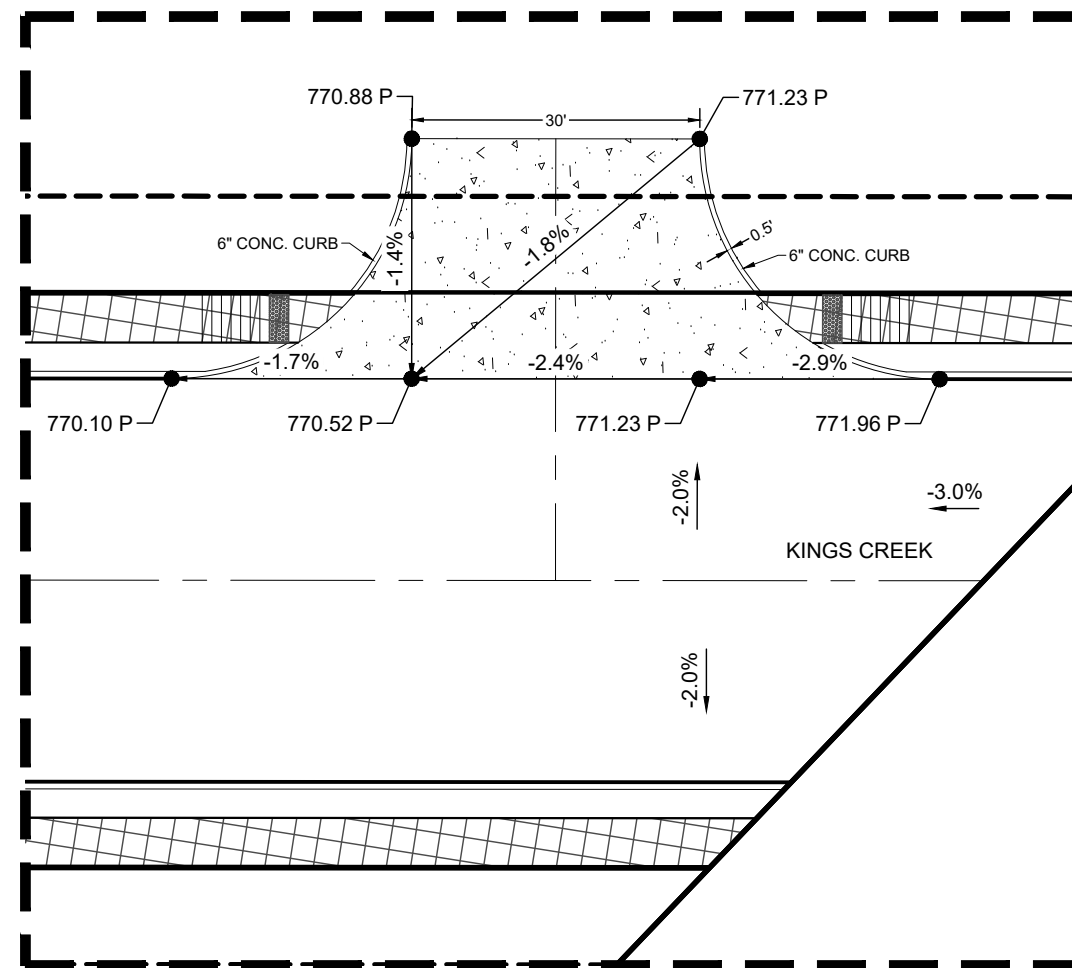
KINGS CREEK

STA. 17+00.00 TO STA. 23+84.34



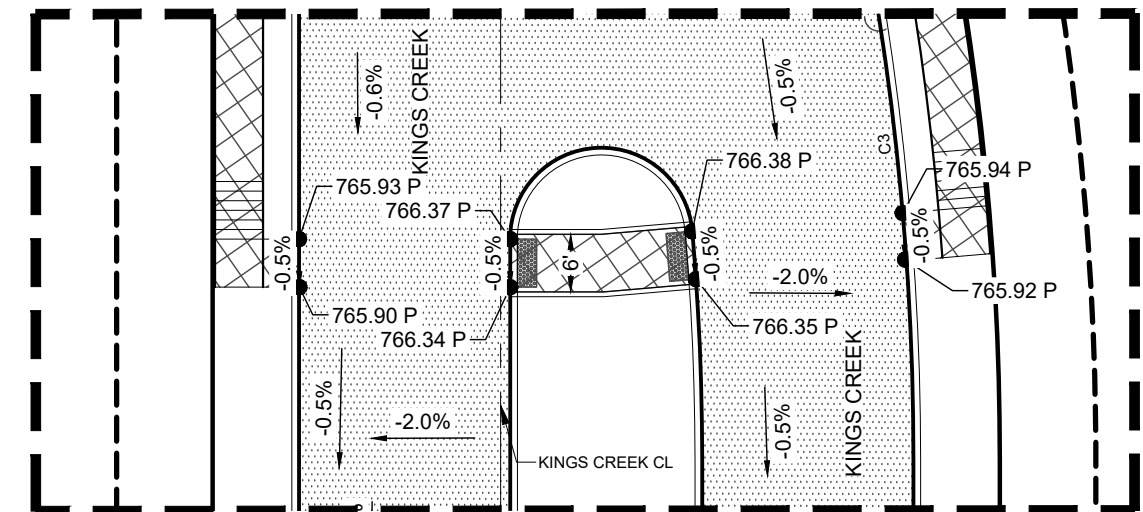
DRIVEWAY DETAIL #1

SCALE: 1" = 20'



DRIVEWAY DETAIL #2

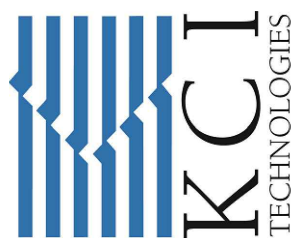
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INTERSECTION DETAIL #1

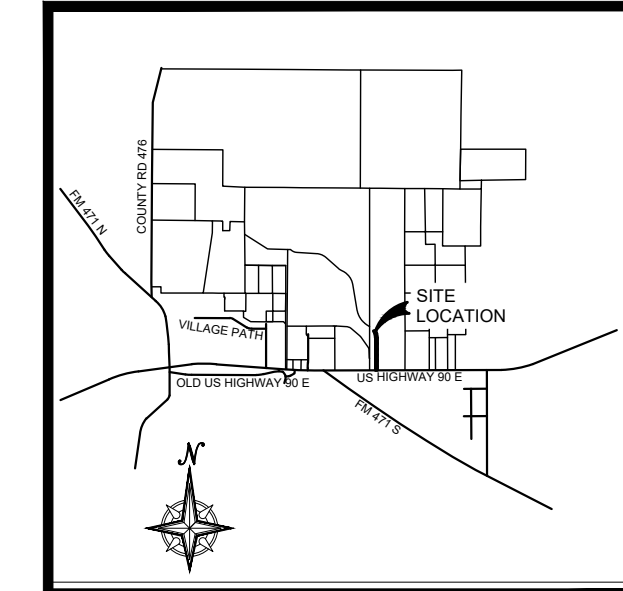
SCALE: 1" = 20'

KCI TECHNOLOGIES, INC.
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PHONE: (210) 641-9999
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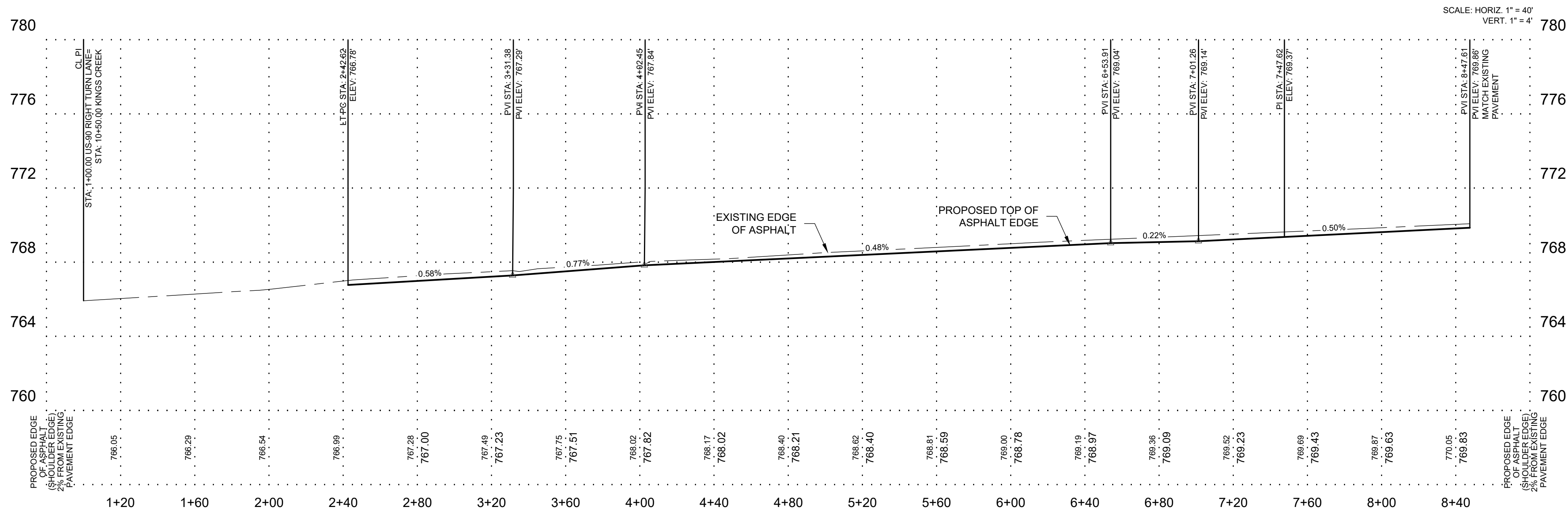
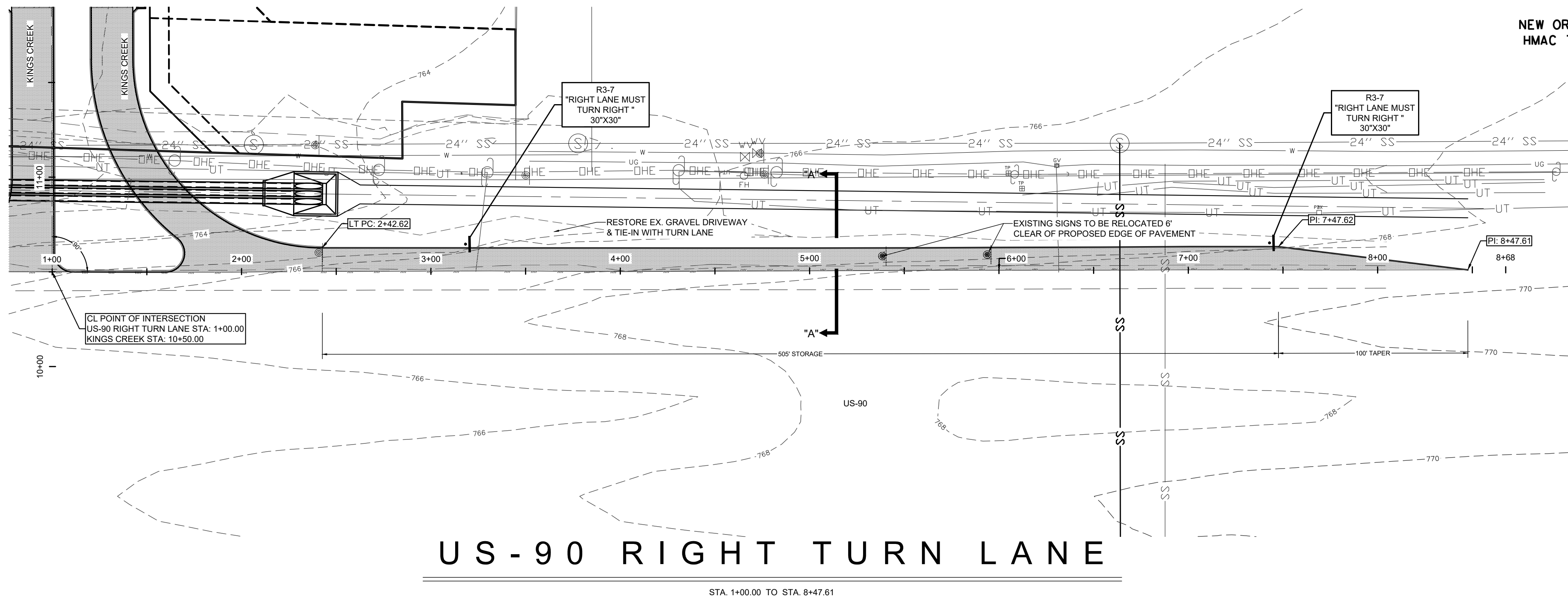
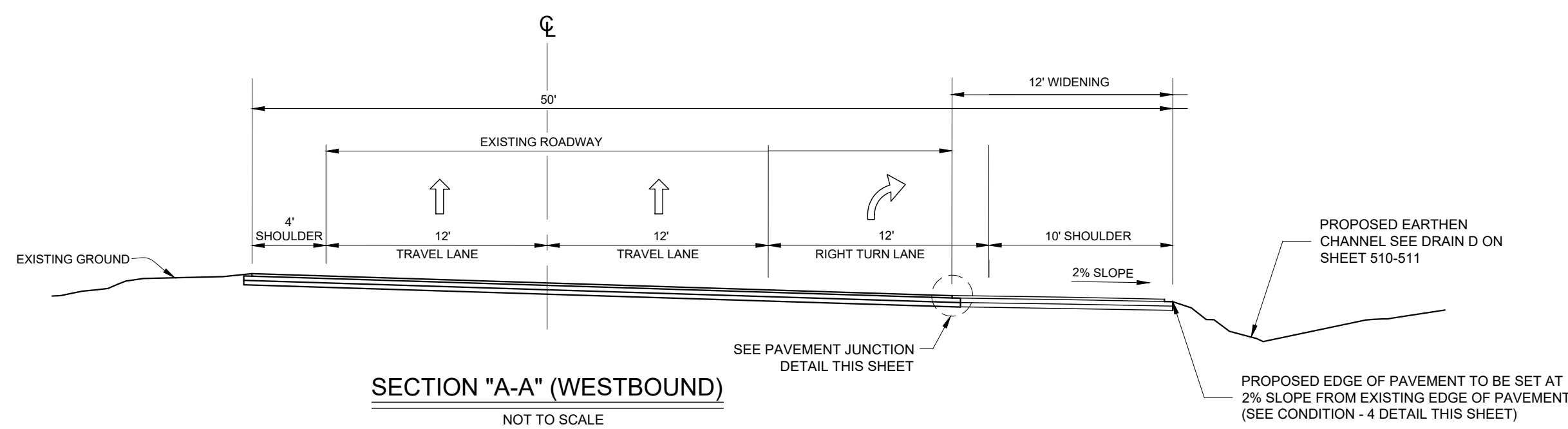
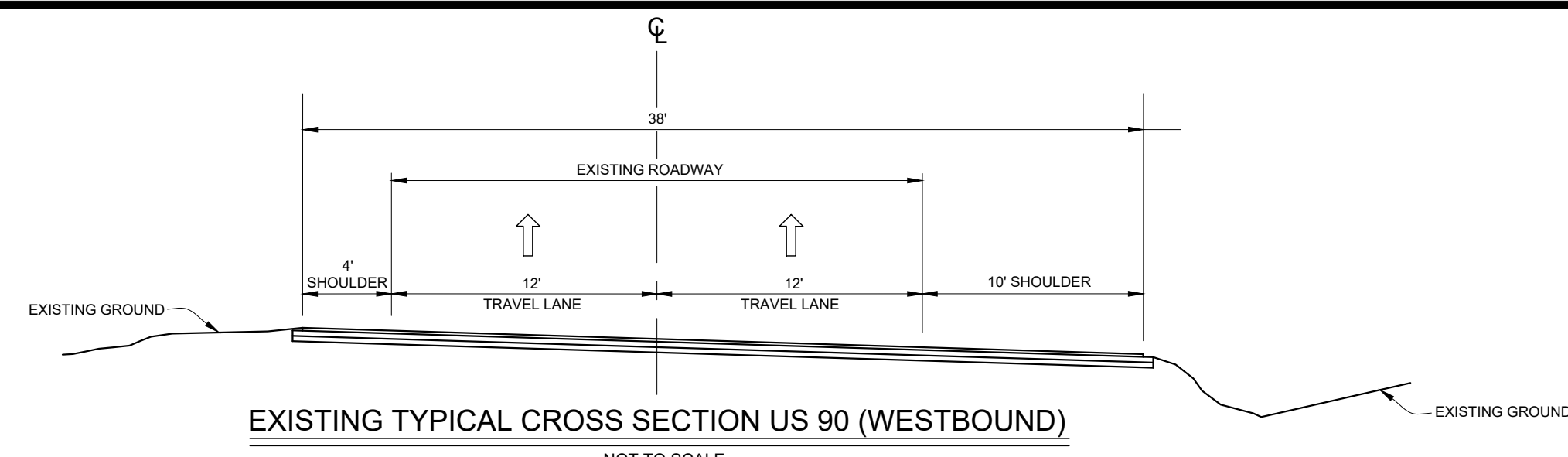


FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
KINGS CREEK PLAN & PROFILE

DRAFTING: G.P.A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.P.
SUBMITTAL PHASE:	
DATE:	03/2024
KCI JOB #:	762308220
SHEET:	



LOCATION MAP



STREETLIGHT NOTE
STREETLIGHT POLES TO BE IN OPEN GREEN SPACE WHERE SHOWN ON PLANS.

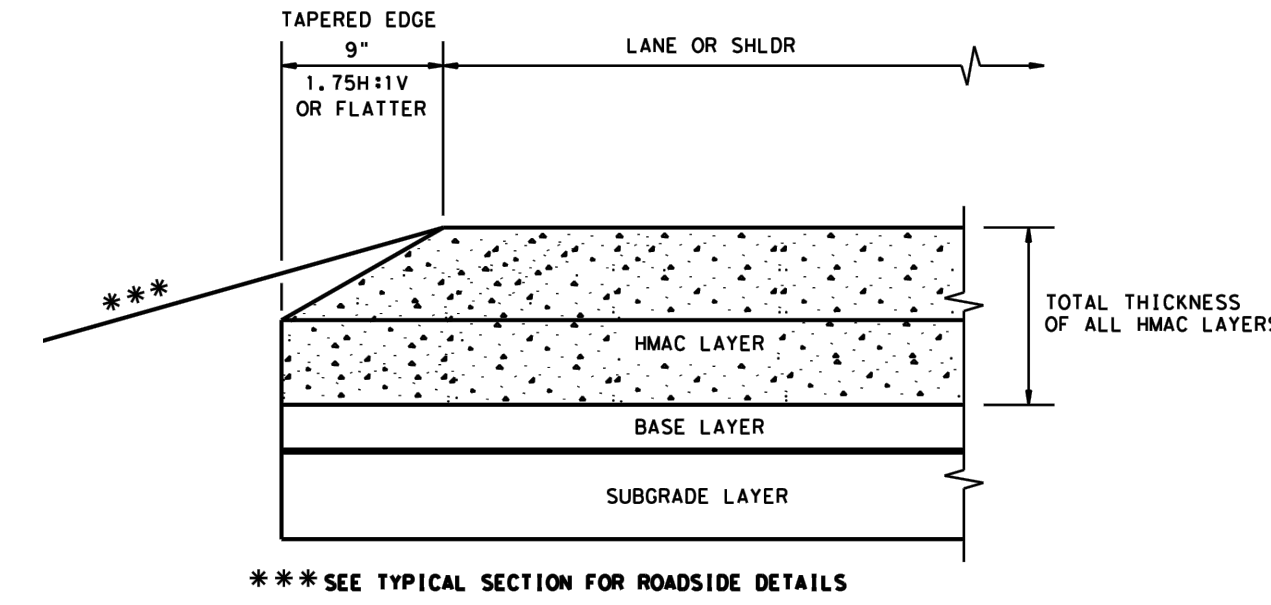
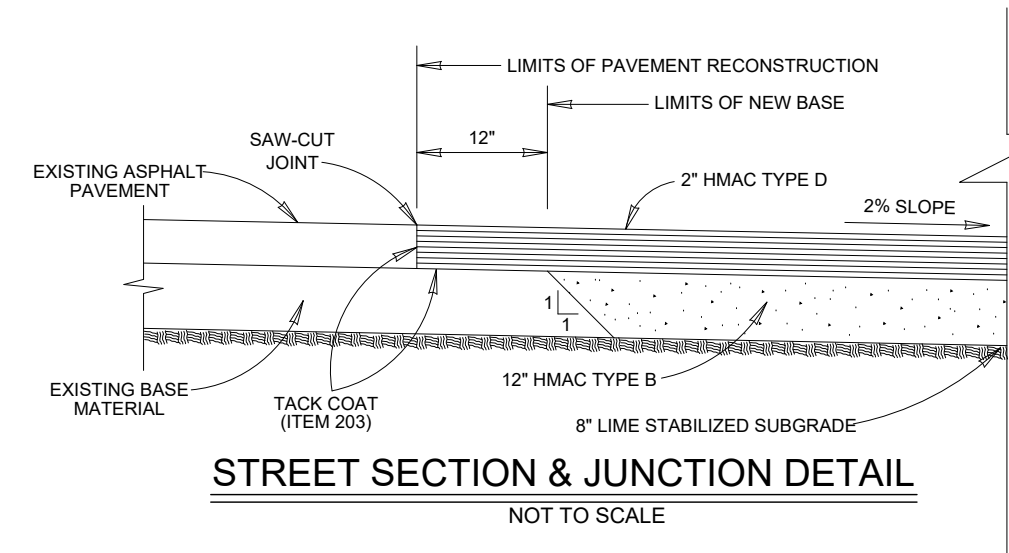
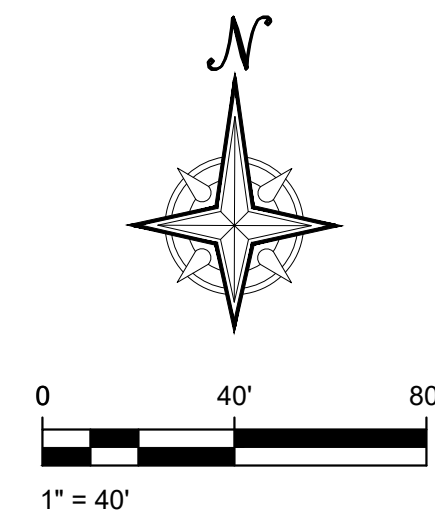
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MEDINA COUNTY PERMIT NOTE:
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HEADER CURB NOTE:
HEADER CURB TO BE TRANSITIONED TO STD. CURB IN 2'.

- LEGEND
- 1 CITY OF SAN ANTONIO WHEELCHAIR RAMP - TYPE I
 - 2 CITY OF SAN ANTONIO WHEELCHAIR RAMP - TYPE II
 - 3 CITY OF SAN ANTONIO WHEELCHAIR RAMP - TYPE III
 - 4 CITY OF SAN ANTONIO WHEELCHAIR RAMP - TYPE IV
 - D1 TYPICAL SIDEWALK RAMP - SINGLE
 - D2 TYPICAL SIDEWALK RAMP - DUAL
- REFER TO WHEELCHAIR RAMP STANDARDS ON STREET DETAILS.

- WHEELCHAIR RAMPS
- WASHOUT CROWN
- SIDEWALK TO BE BUILT BY DEVELOPER
- PROPOSED DRIVEWAY
- TOP OF CURB ELEVATION
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT (100 WATT)



CONDITION - 4
NEW OR RECONSTRUCTED PAVEMENT
HMAc THICKNESS 5" OR GREATER

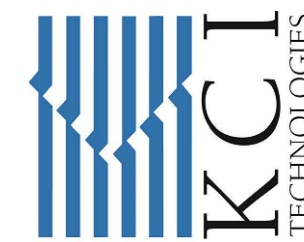
TURN LANE PAVEMENT DESIGN

PAVEMENT DESIGN WAS PREPARED BY INTEC

PAVEMENT STRUCTURE (DESIGN CBR=2.5)	STR. COEF.	STR. NO.
2" HOT MIX ASPHALT TYPE D	0.44	0.88
12" HOT MIX ASPHALT TYPE B	0.38	4.56
8" LIME STABILIZED SUBGRADE (45#/S.Y.)	0.08	0.64
TOTAL		6.08

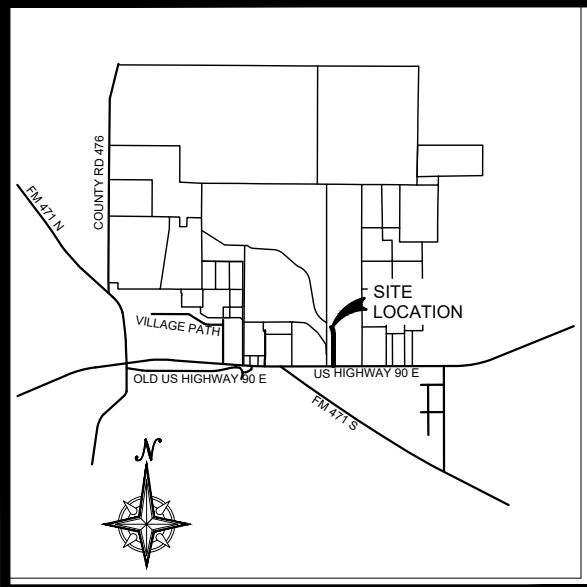
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SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65



FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
US-90 RIGHT TURN LANE
PLAN AND PROFILE

DRAFTING: G.P.A.M. CHECK: L.E.
DESIGN: L.E. CHECK: C.P.
SUBMITTAL PHASE:
DATE: 03/2024
KCI JOB #: 762308220
SHEET:



LOCATION MAP

STREETLIGHT NOTE
STREETLIGHT POLES TO BE IN OPEN GREEN SPACE WHERE SHOWN ON PLANS.

DRIVEWAY NOTE
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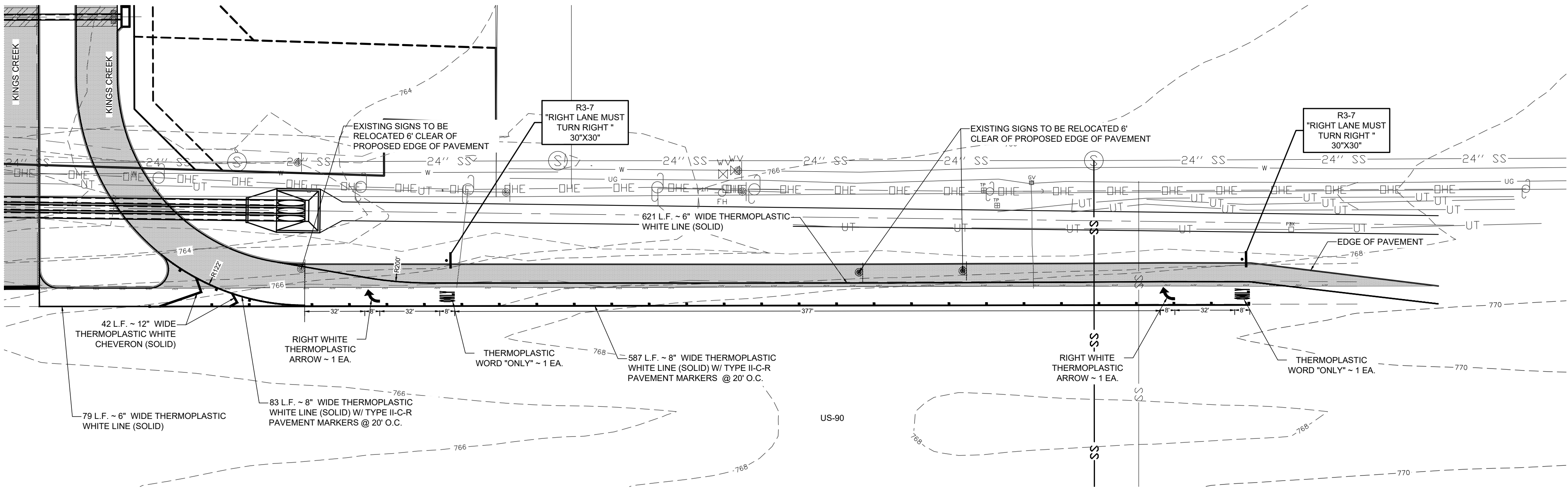
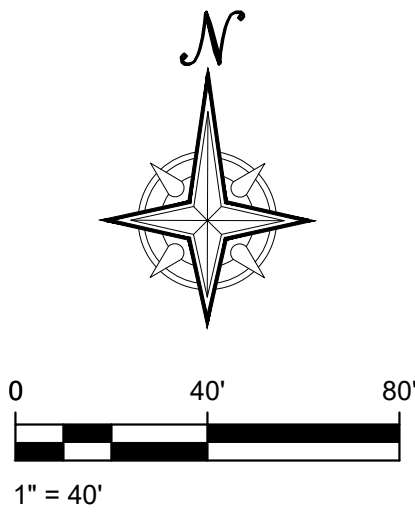
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4 CITY OF SAN ANTONIO WHEELCHAIR RAMP - TYPE IV
D1 TYPICAL SIDEWALK RAMP - SINGLE
D2 TYPICAL SIDEWALK RAMP - DUAL
- REFER TO WHEELCHAIR RAMP STANDARDS ON STREET DETAILS.

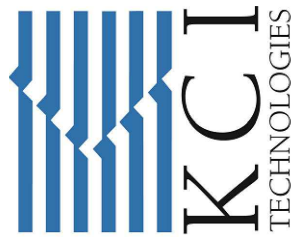
LEGEND

- WHEELCHAIR RAMPS
WASHOUT CROWN
SIDEWALK TO BE BUILT BY DEVELOPER
PROPOSED DRIVEWAY
TOP OF CURB ELEVATION
EXISTING STREET LIGHT
PROPOSED STREET LIGHT (100 WATT)
- 940
★ ELP
● LP



**STRIPING & PAVEMENT
MARKING PLAN**

KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65



**FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR**
US-90 RIGHT TURN LANE
PLAN AND PROFILE

DRAFTING: G.P.A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.P.
SUBMITTAL PHASE:	
DATE:	03/2024
KCI JOB #:	762308220
SHEET:	

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REV	DATE	DESCRIPTION

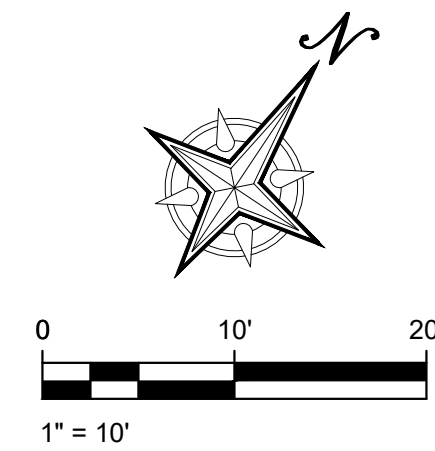
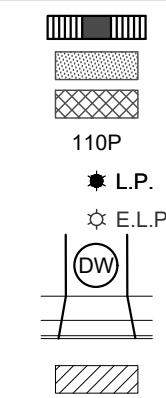
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WHEEL CHAIR RAMPS —————
WASHOUT CROWN —————
SIDEWALK TO BE BUILT BY DEVELOPER —————
TOP OF CURB ELEVATION —————
PROPOSED STREET LIGHT (100 WATT/SINGLE ARM) —————
EXISTING STREET LIGHT —————

PROPOSED DRIVEWAY —————

AREA TO BE DEMOLISHED —————

[illegible]

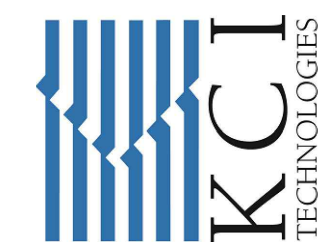
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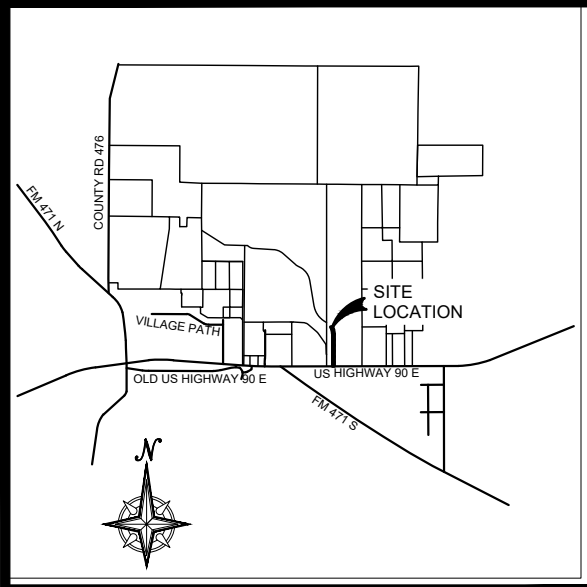


FLAT CREEK SUBDIVISION COMMERCIAL COLLECTOR

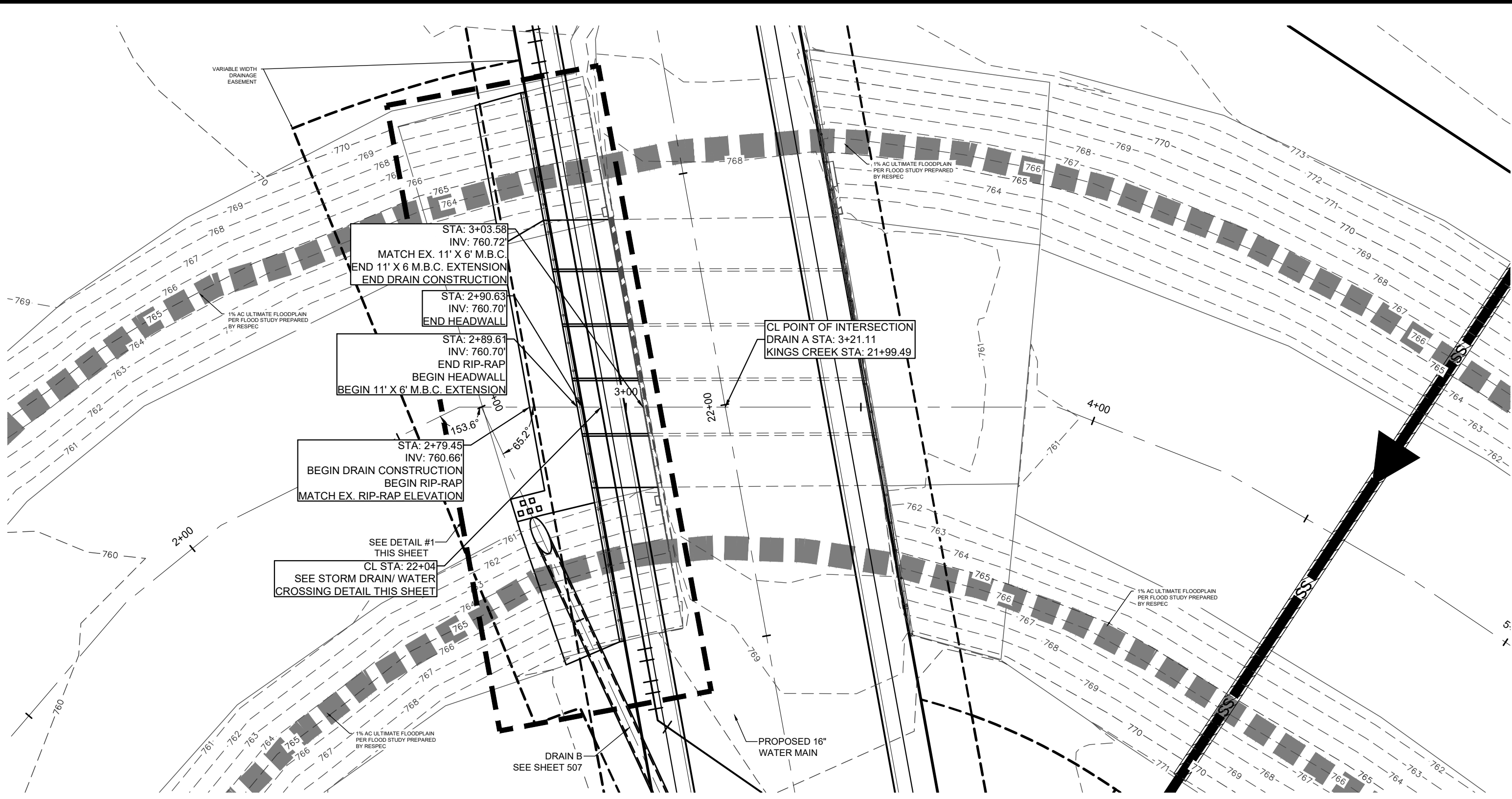
DRAFTING: G.P./A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.F.
SUBMITTAL PHASE:	
DATE:	03/20/2012
KCI JOB #:	76230822
SHEET:	

505

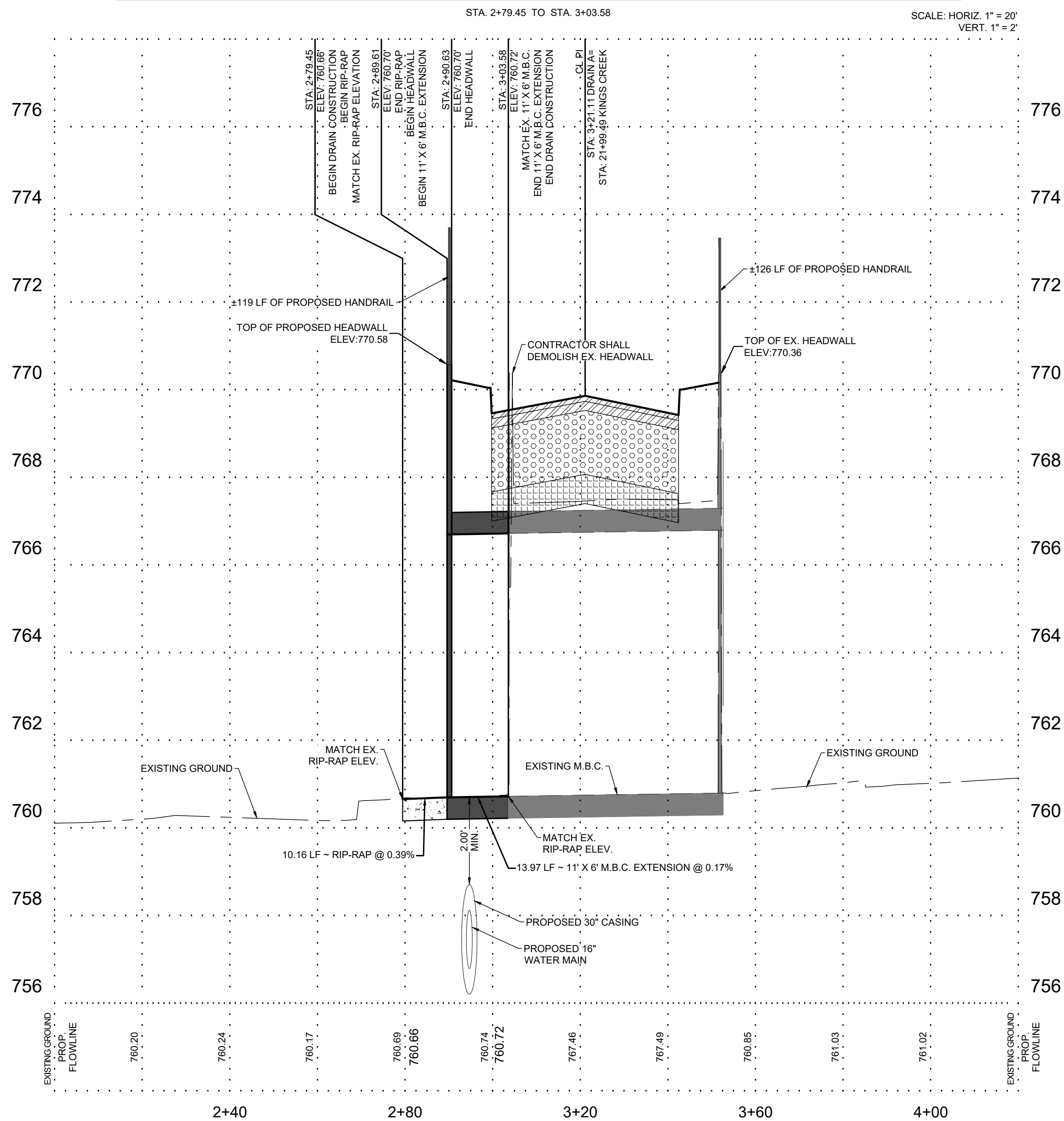
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LOCATION MAP

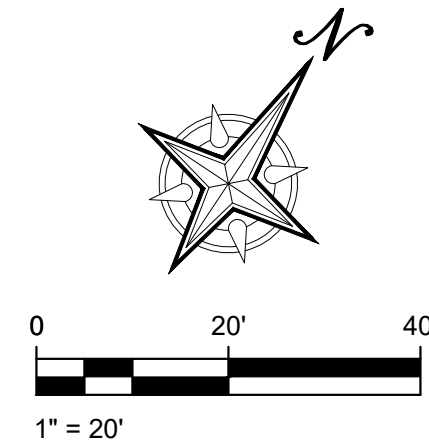
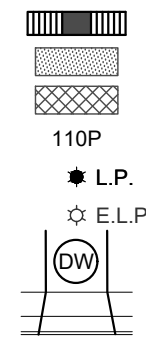


DRAIN A



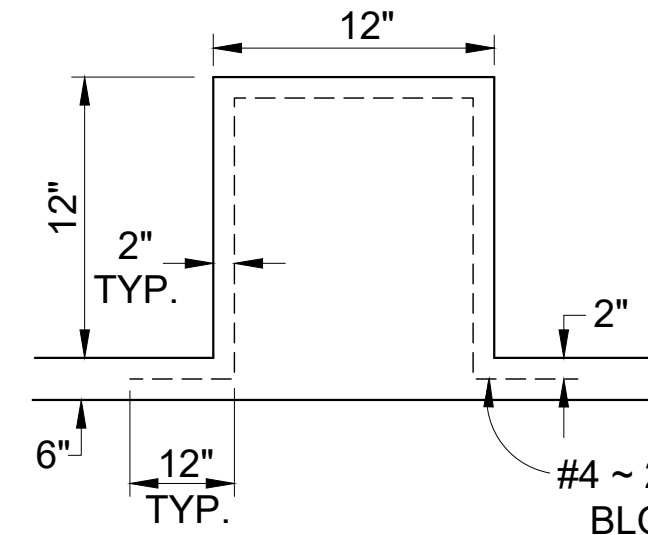
LEGEND

- WHEEL CHAIR RAMPS
- WASHOUT CROWN
- SIDEWALK TO BE BUILT BY DEVELOPER
- TOP OF CURB ELEVATION
- PROPOSED STREET LIGHT (100 WATT/SINGLE ARM)
- EXISTING STREET LIGHT
- PROPOSED DRIVEWAY



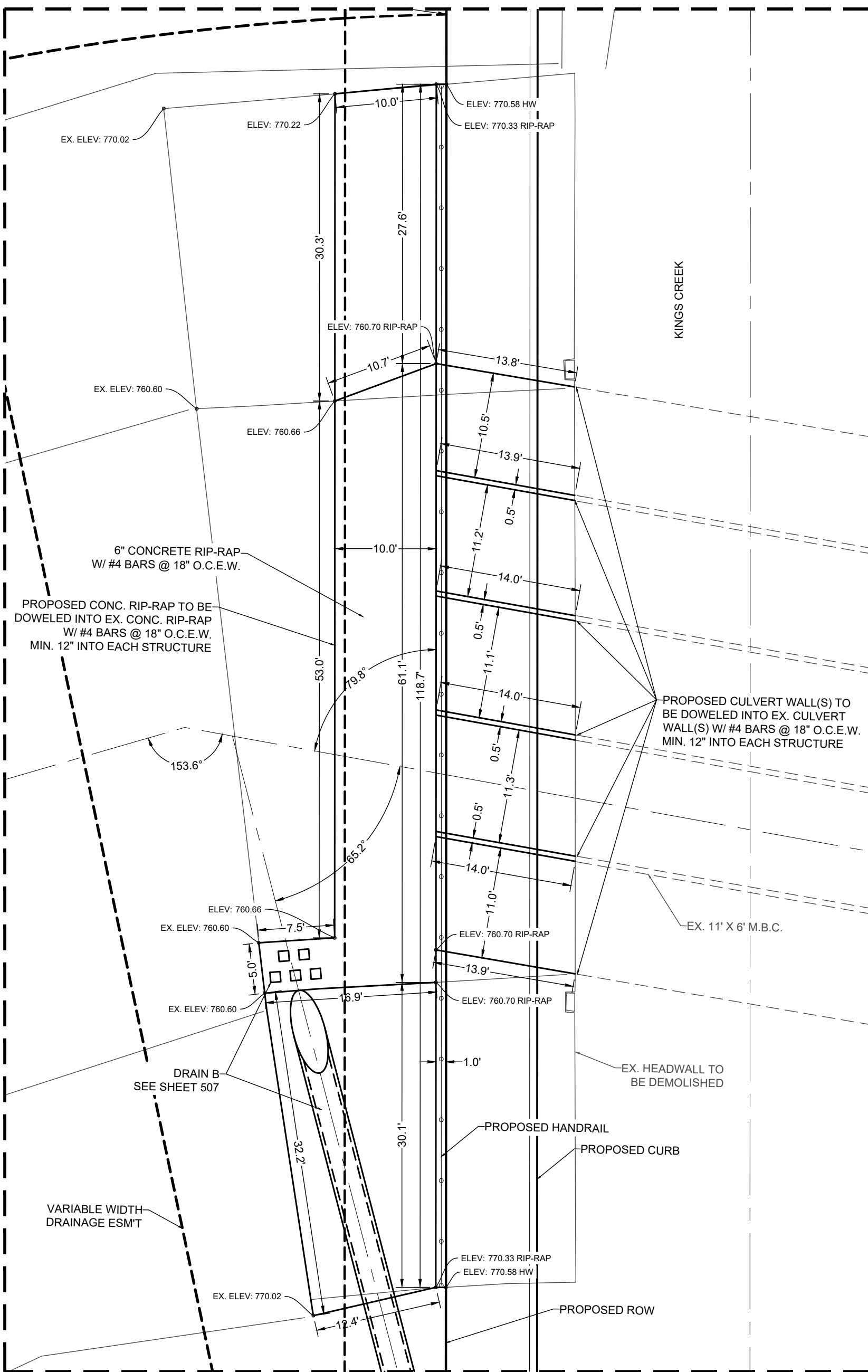
CONCRETE NOTES:

- COVER FOR REINFORCING STEEL IS 2" UNLESS NOTED.
- ALL CONCRETE SHALL BE CLASS "C" 3600 PSI @ 28 DAY WITH COURSE AGGREGATE GRADE 2-5
- MINIMUM BAR DEVELOPMENT LENGTH FOR SPLICE AND BENDS SHALL BE 24 INCHES.



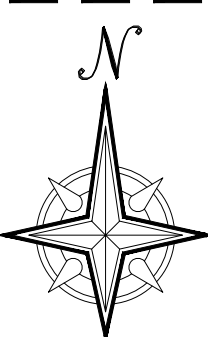
SPLASH BLOCK DETAIL

NOT TO SCALE

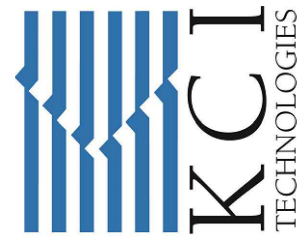


DETAIL #1

SCALE: 1" = 10'



KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65

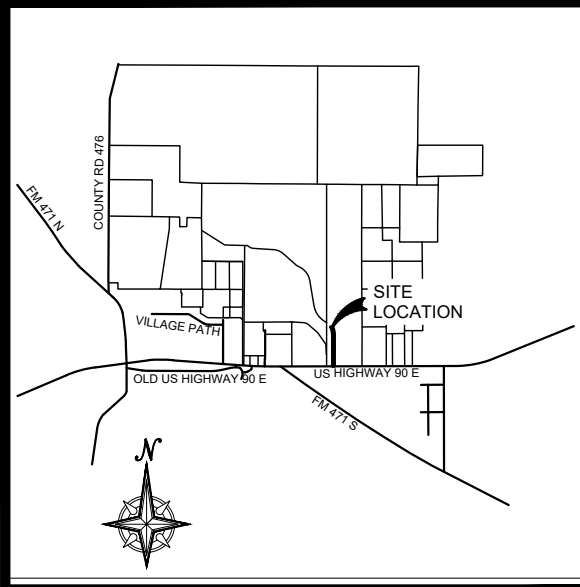


FLAT CREEK SUBDIVISION COMMERCIAL COLLECTOR DRAIN A PLAN & PROFILE

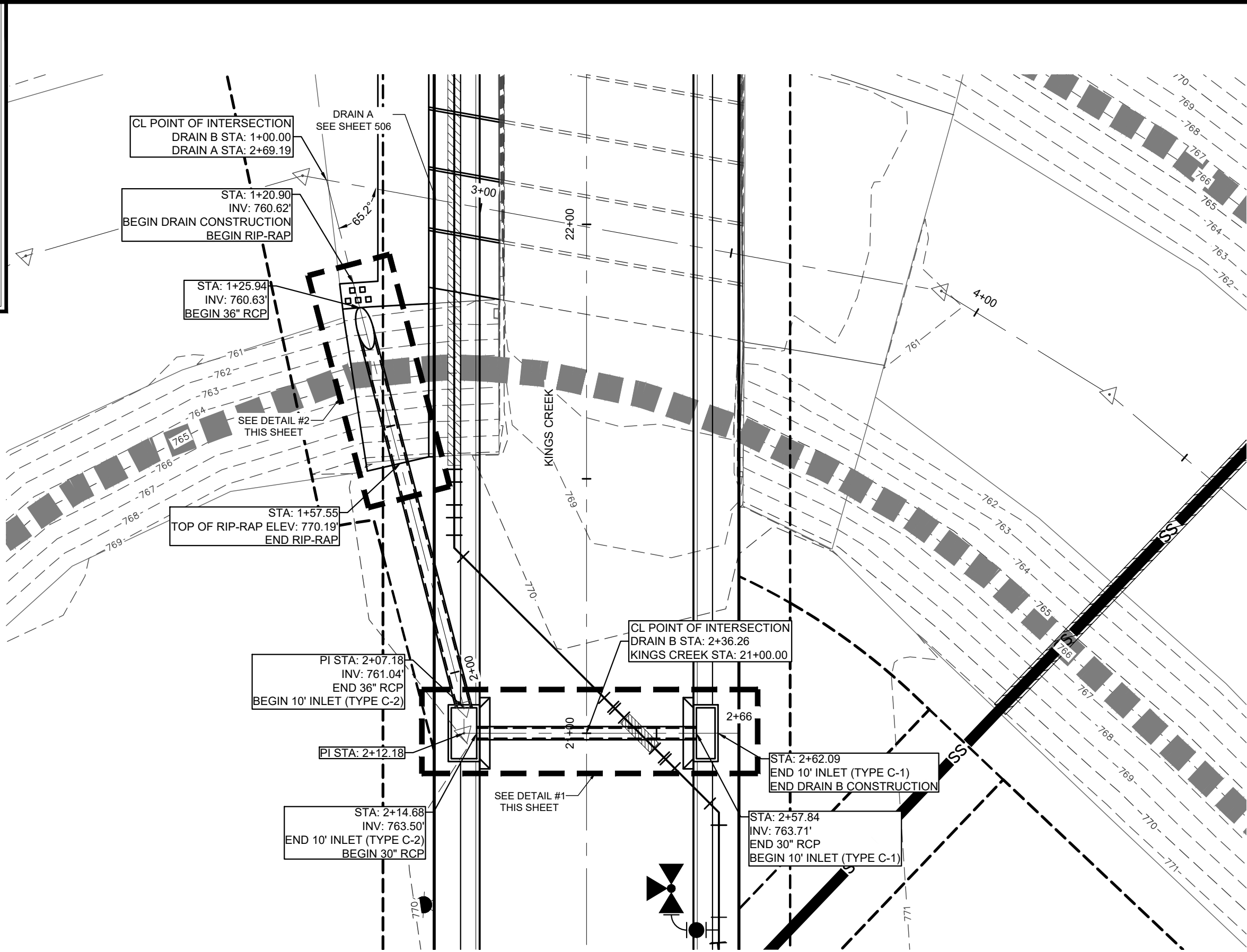
DRAFTING: G.P.A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.P.
SUBMITTAL PHASE:	
DATE:	03/2024
KCI JOB #:	762308220
SHEET:	

506

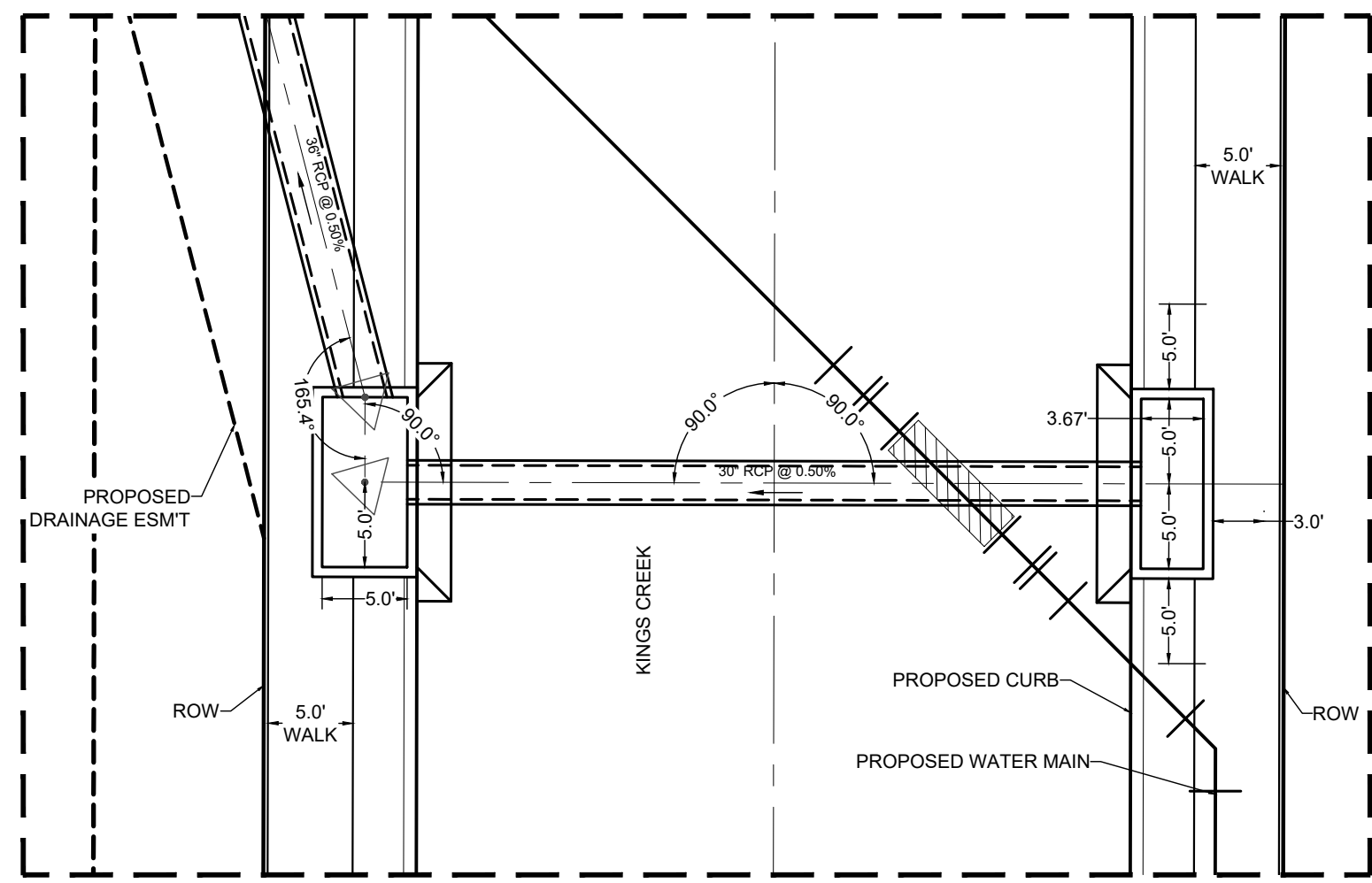
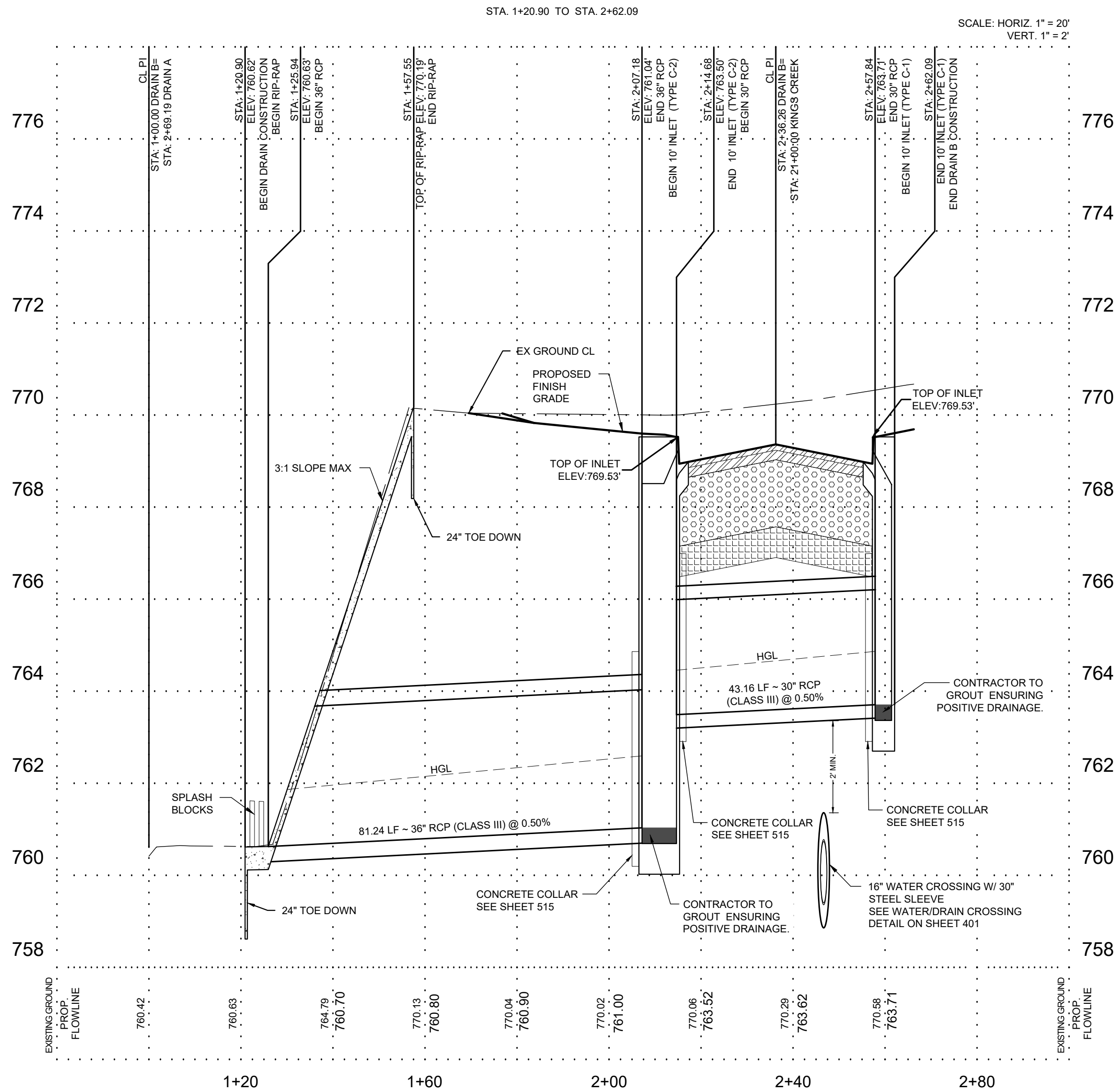
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LOCATION MAP

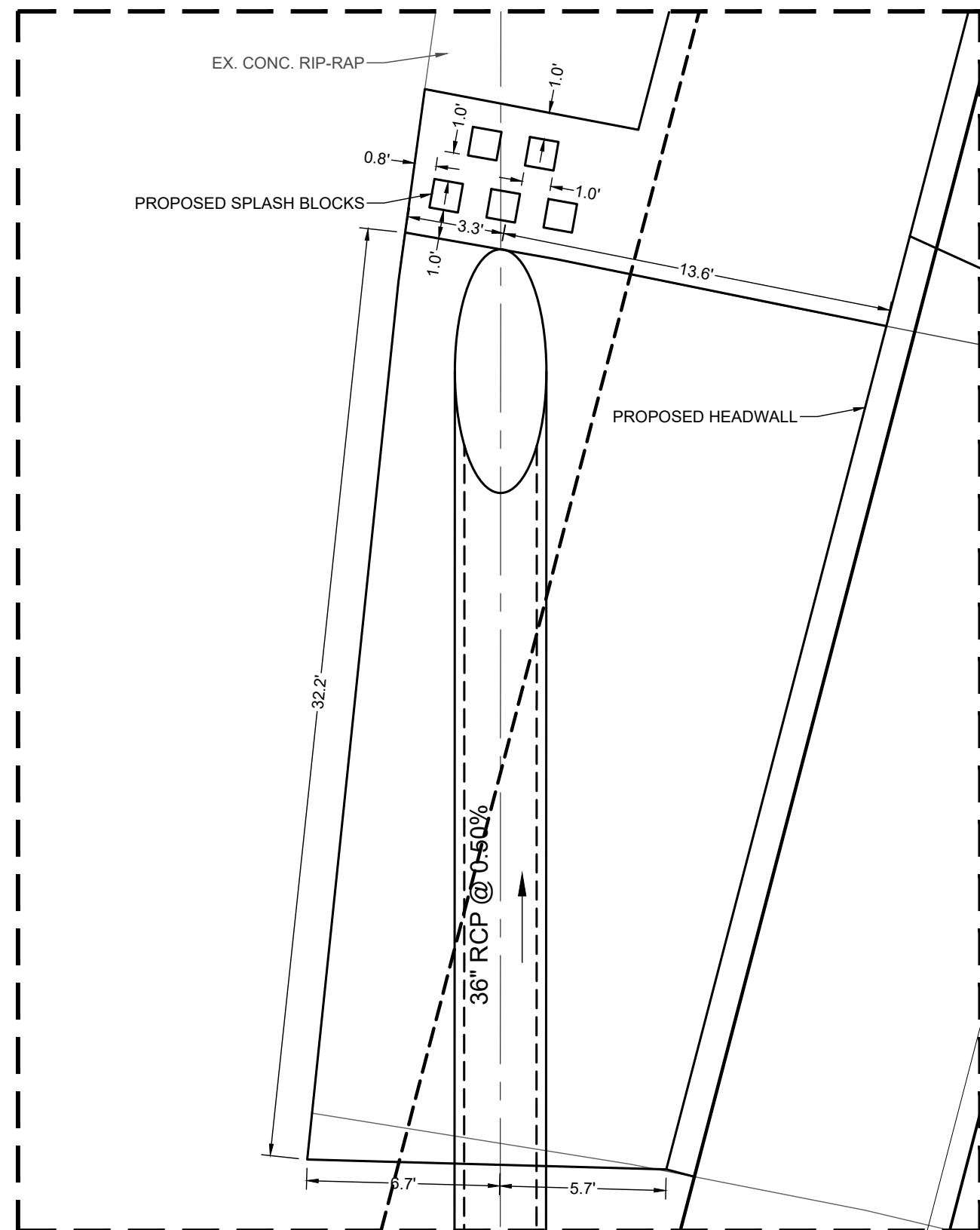


STORM DRAIN B



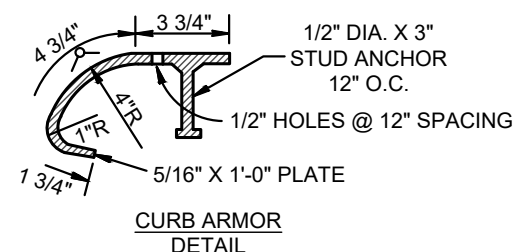
DETAIL #1

SCALE: 1" = 10'



DETAIL #2

SCALE: 1" = 5'

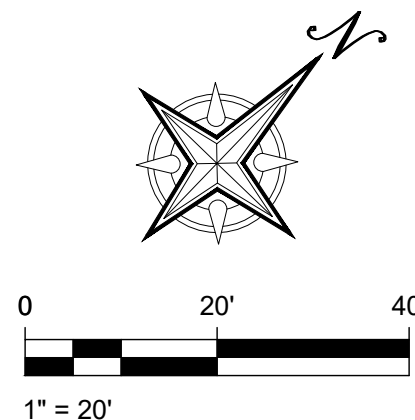
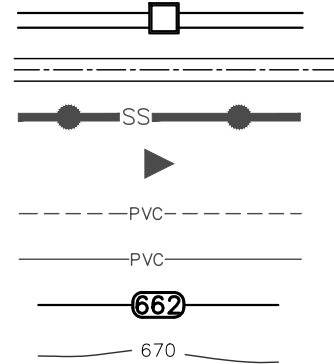


CURB ARMOR NOTE:
Curb armor located on a curve shall be provided by SC Welding or approved equivalent.

SC Welding
521 Frio City Road
San Antonio, TX
Phone: 210-226-9237

LEGEND

PROPOSED STORM DRAIN
PROPOSED EARTHEN CHANNEL
PROPOSED SANITARY SEWER MAIN
DIRECTION OF FLOW
EXISTING WATER MAIN
PROPOSED WATER MAIN
PROPOSED CONTOURS
EXISTING CONTOURS



INLET NOTES:

- MUD SLAB AND INLET BOLTING WILL BE REQUIRED. CONTRACTOR TO USE FLOWABLE FILL (COSA ITEM 413.2) FOR MUD SLAB. FLOWABLE FILL SHOULD BE 2" TO 6" THICK AND SHOULD EXTEND BENEATH TOTAL LENGTH OF PROPOSED INLETS.
- CONTRACTOR TO GROUT INLET BOTTOM TO ENSURE DRAINAGE TO OUTLET PIPE.
- COVER FOR REINFORCING STEEL IS 2" UNLESS NOTED.
- ALL CONCRETE SHALL BE CLASS "C" 3600 PSI @ 28 DAY WITH COURSE AGGREGATE GRADE 2-5.
- MINIMUM BAR DEVELOPMENT LENGTH FOR SPLICE AND BENDS SHALL BE 24 INCHES. NO SEPARATE PAY ITEM ON ITEMS LISTED ABOVE.

NOTE:

CONTRACTOR TO ENSURE POSITIVE DRAINAGE AT UPSTREAM & DOWNSTREAM ENDS OF DRAINS AND THAT NO PONDING WILL OCCUR.

CONCRETE NOTES:

- COVER FOR REINFORCING STEEL IS 2" UNLESS NOTED.
- ALL CONCRETE SHALL BE CLASS "C" 3600 PSI @ 28 DAY WITH COURSE AGGREGATE GRADE 2-5.
- MINIMUM BAR DEVELOPMENT LENGTH FOR SPLICE AND BENDS SHALL BE 24 INCHES.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

FLAT CREEK SUBDIVISION COMMERCIAL COLLECTOR DRAIN B PLAN AND PROFILE

DRAFTING: G.P.A.M. CHECK: L.E.

DESIGN: L.E. CHECK: C.P.

SUBMITTAL PHASE:

DATE: 03/2024

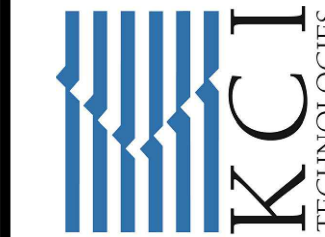
KCI JOB #: 762308220

SHEET: 507

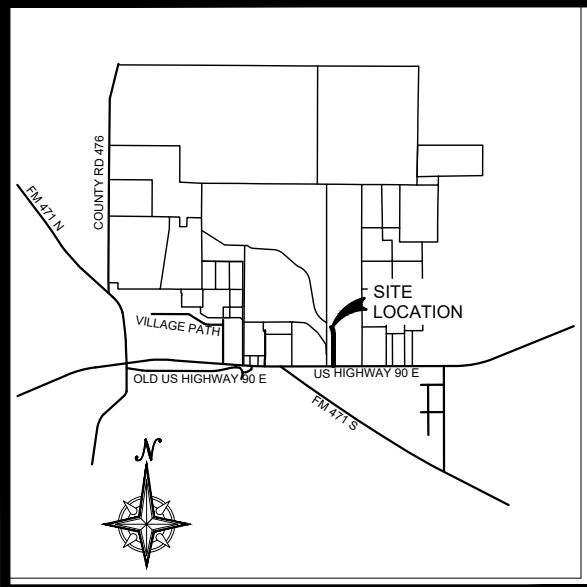
FOR BIDDING
PURPOSES ONLY
NOT FOR CONSTRUCTION

KCI TECHNOLOGIES, INC.

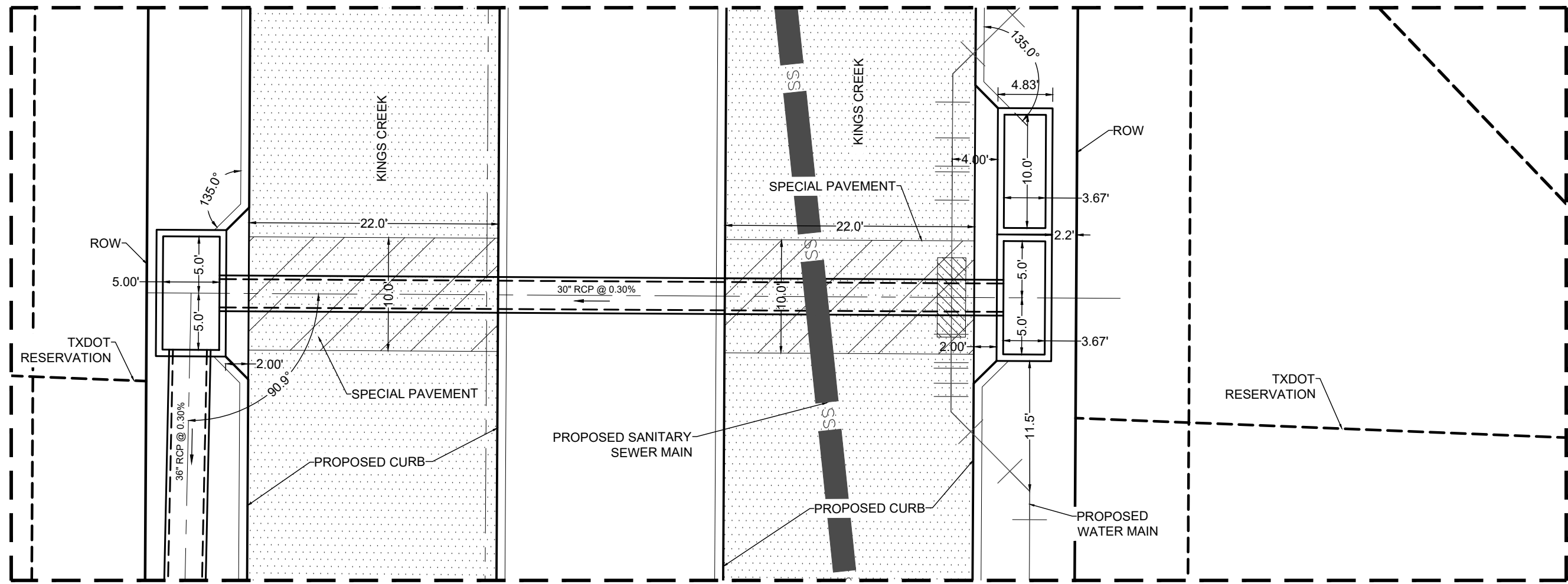
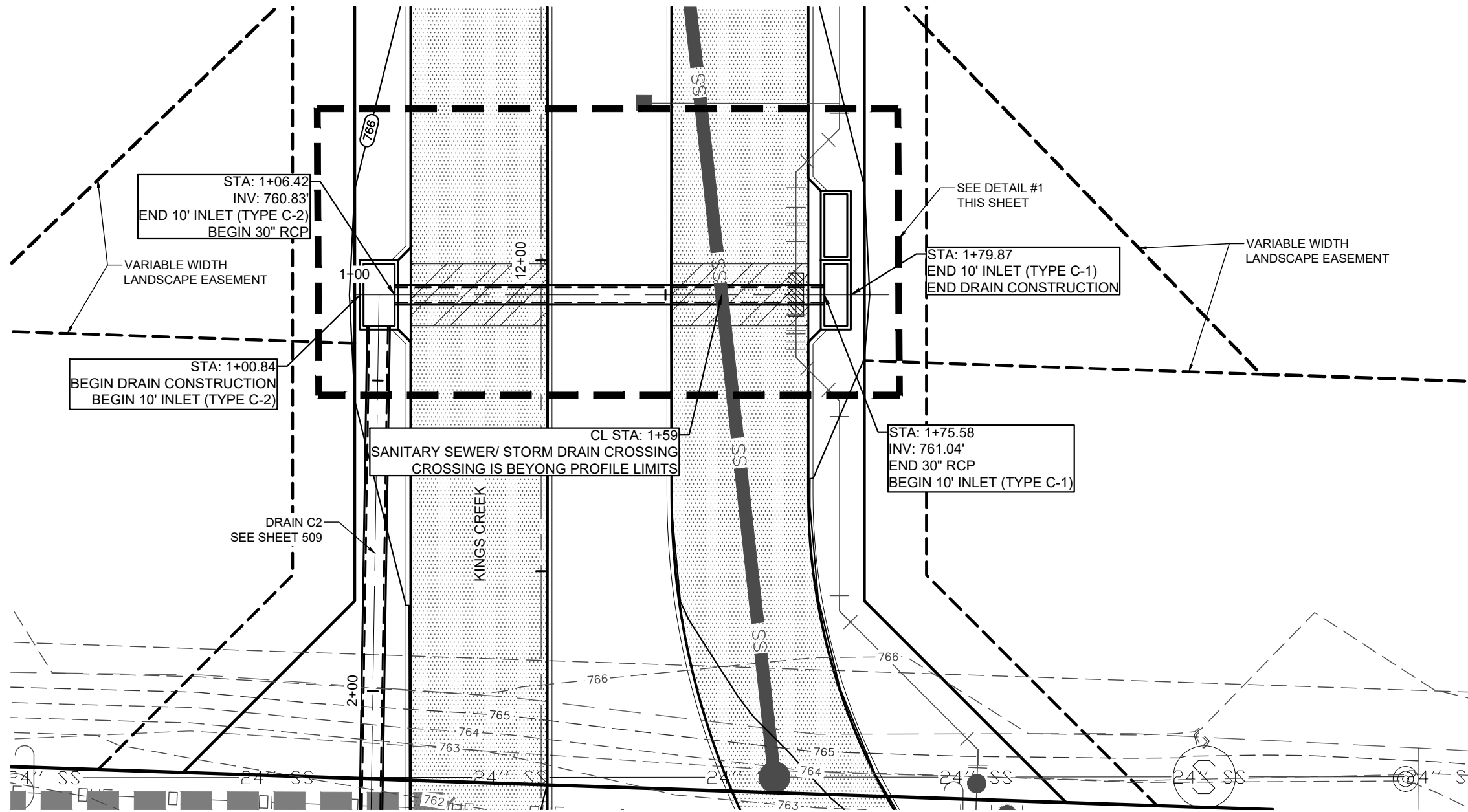
2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65



Date: Nov 18, 2024, 17:20:00 User: C:\Users\KCI\AppData\Local\Temp\KCI\Draws\Subdivision\Collector_DrainB\DrawB.dwg Plot: 762308220_507_DRAIN_B PLAN AND PROFILE.dwg



LOCATION MAP



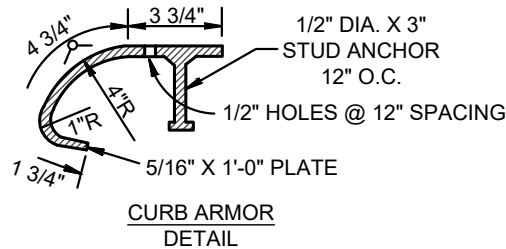
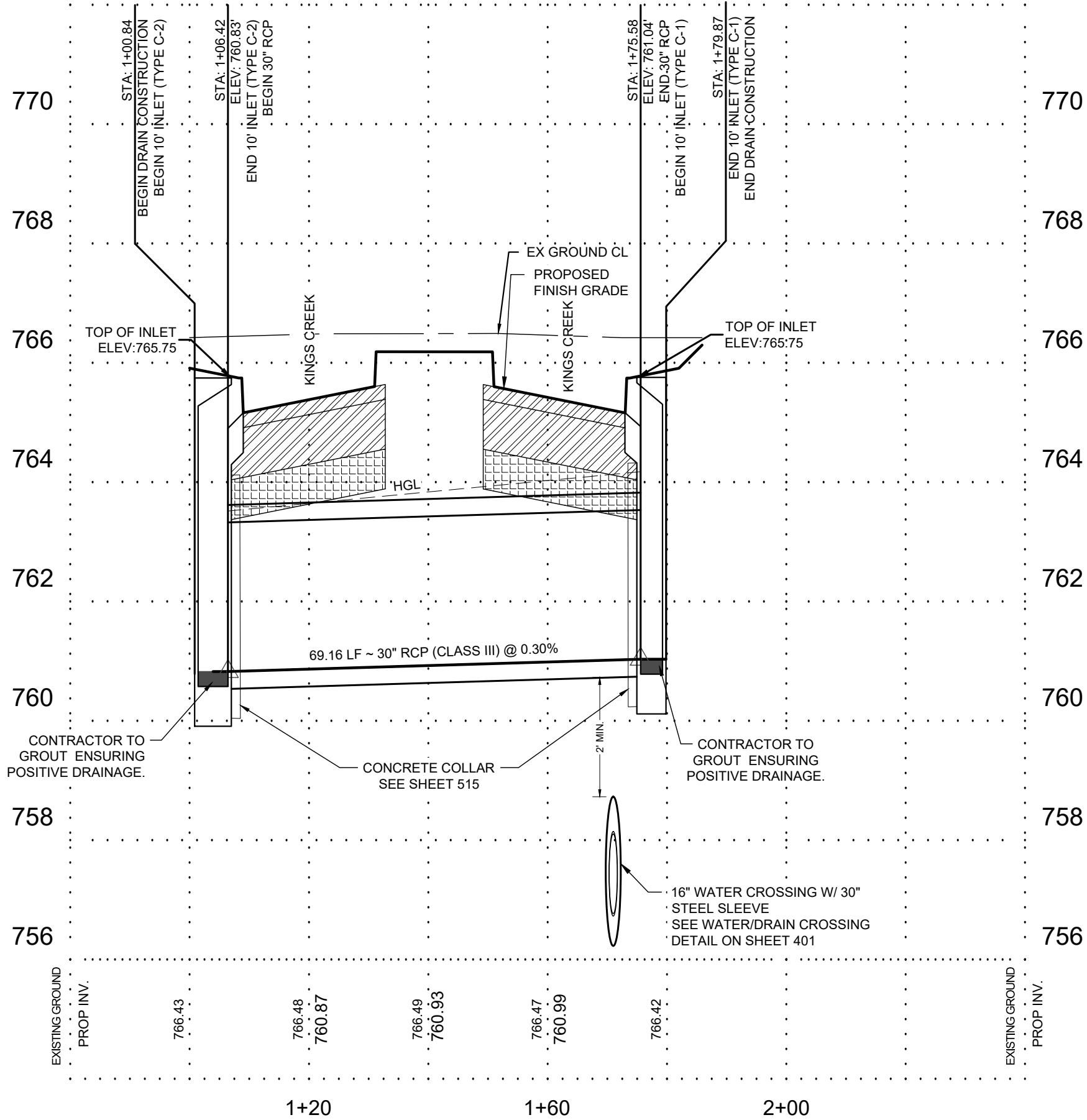
DETAIL #1

SCALE: 1" = 10'

DRAIN C1

STA. 1+00.84 TO 1+79.87

SCALE: HORIZ. 1" = 20'
VERT. 1" = 2'



CURB ARMOR NOTE:

Curb armor located on a curve shall be provided by SC Welding or approved equivalent.

SC Welding
521 Frio City Road
San Antonio, TX
Phone: 210-226-9237

INLET NOTES:

- MUD SLAB AND INLET BOLTING WILL BE REQUIRED. CONTRACTOR TO USE FLOWABLE FILL (COSA ITEM 413.2) FOR MUD SLAB. FLOWABLE FILL SHOULD BE 2" TO 6" THICK AND SHOULD EXTEND BENEATH TOTAL LENGTH OF PROPOSED INLETS.
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- MINIMUM BAR DEVELOPMENT LENGTH FOR SPICE AND BENDS SHALL BE 24 INCHES. NO SEPERATE PAY ITEM ON ITEMS LISTED ABOVE

NOTE:

CONTRACTOR TO ENSURE POSITIVE DRAINAGE AT UPSTREAM & DOWNSTREAM ENDS OF DRAINS AND THAT NO PONDING WILL OCCUR.

CONCRETE NOTES:

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TRENCH EXCAVATION SAFETY PROTECTION

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FLAT CREEK SUBDIVISION COMMERCIAL COLLECTOR DRAIN C1 PLAN AND PROFILE

DRAFTING: G.P.A.M. CHECK: L.E.

DESIGN: L.E. CHECK: C.P.

SUBMITTAL PHASE:

DATE: 03/2024

KCI JOB #: 762308220

SHEET:

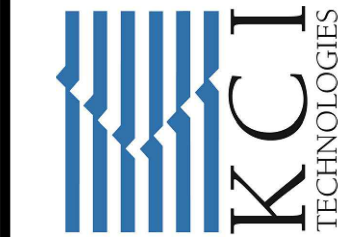
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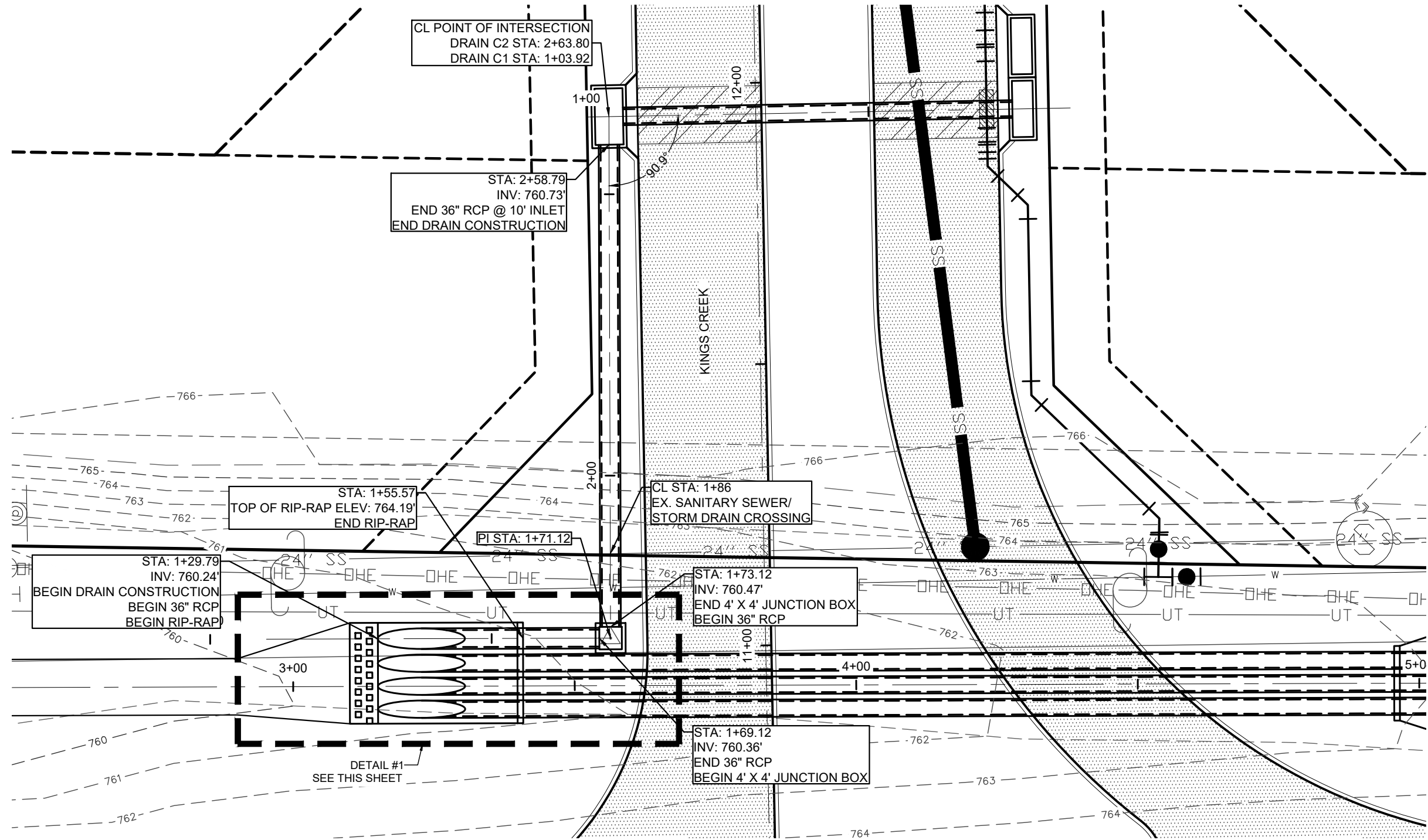
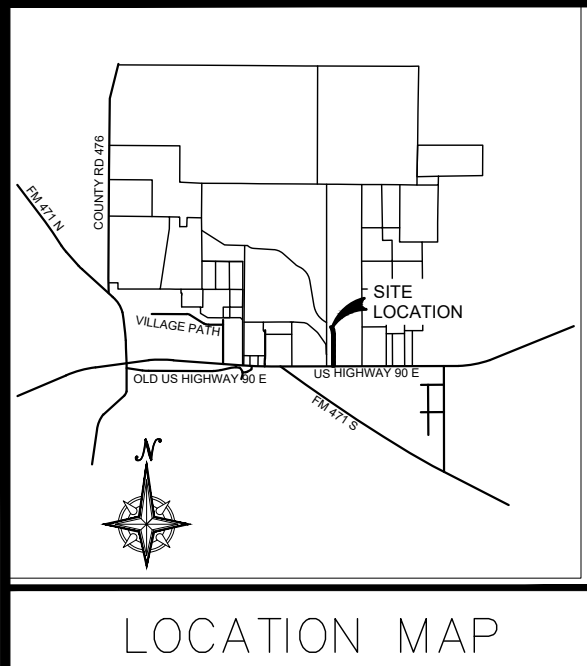
KCI TECHNOLOGIES, INC.

2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440

REGISTRATION #10573 / #101943-65

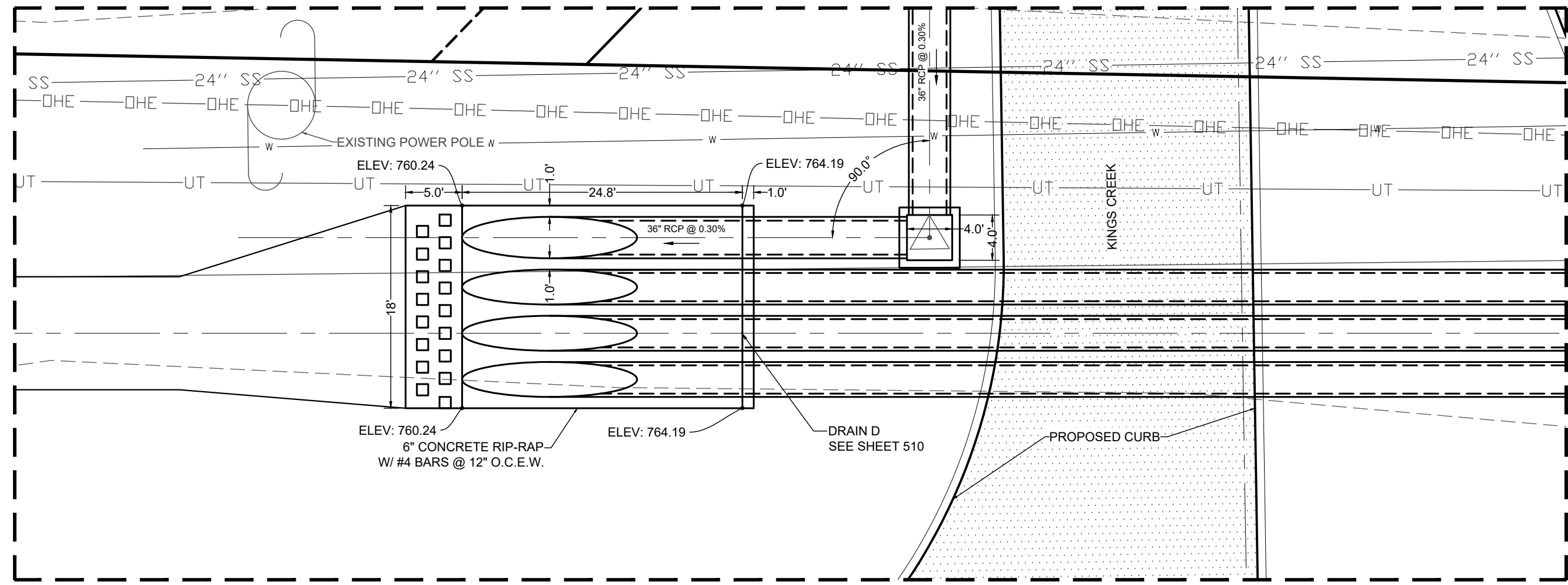
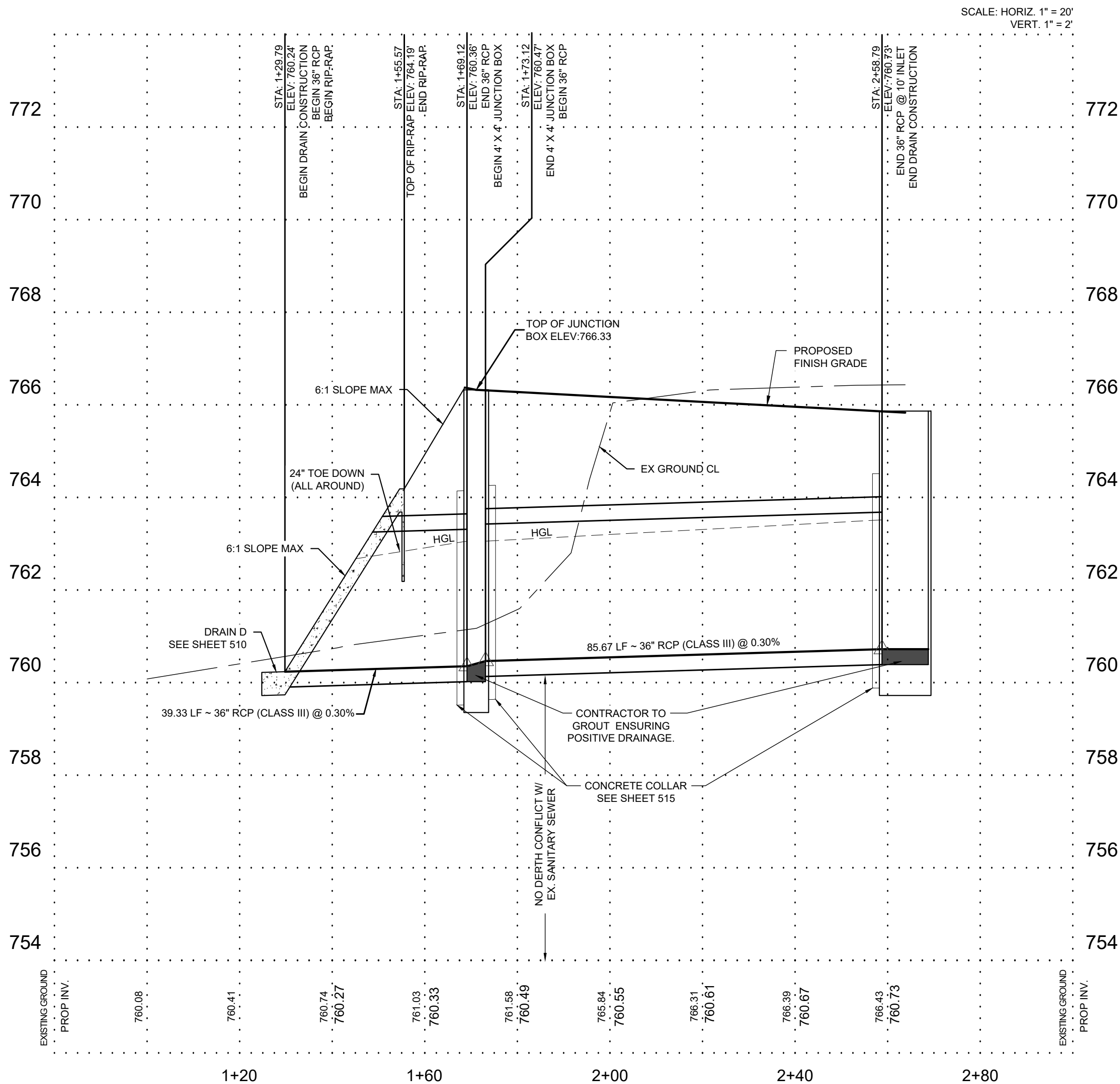


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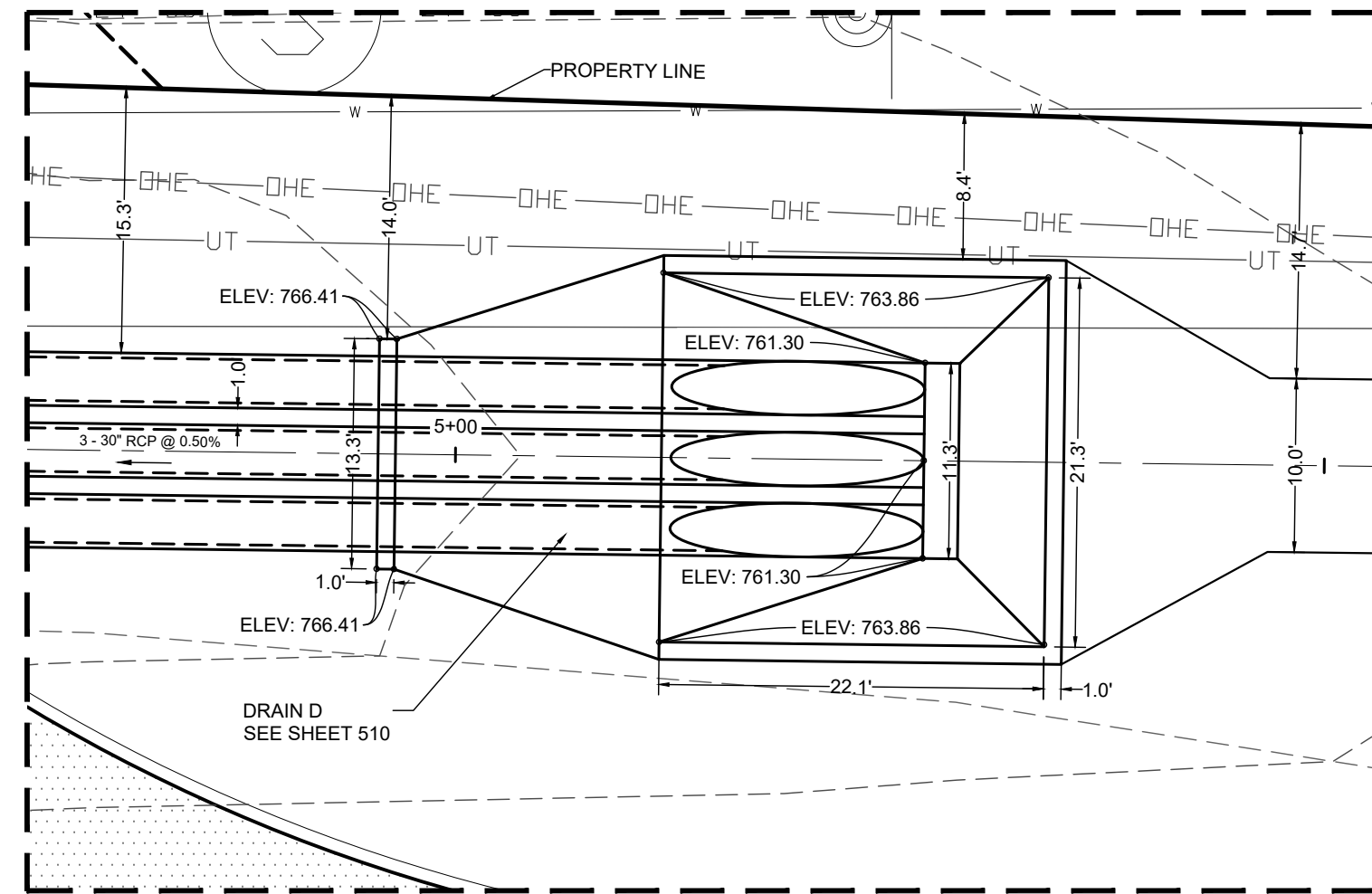
DRAIN C2

STA. 1+29.79 TO 2+58.79



DETAIL #1

SCALE: 1" = 10'



DETAIL #2

SCALE: 1" = 10'

JUNCTION BOX NOTE:

CONTRACTOR SHALL ENSURE JUNCTION BOX RIM IS FLUSH WITH FINISHED GROUND/ FINISHED PAVEMENT.

INLET NOTES:

- MUD SLAB AND INLET BOLTING WILL BE REQUIRED. CONTRACTOR TO USE FLOWABLE FILL (COSA ITEM 413.2) FOR MUD SLAB. FLOWABLE FILL SHOULD BE 2" TO 6" THICK AND SHOULD EXTEND BENEATH TOTAL LENGTH OF PROPOSED INLETS.
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TRENCH EXCAVATION SAFETY PROTECTION

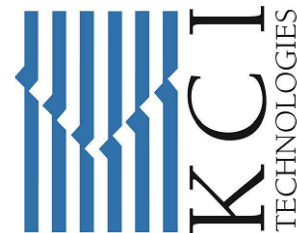
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FLAT CREEK SUBDIVISION COMMERCIAL COLLECTOR DRAIN C2 PLAN AND PROFILE

DRAFTING: G.P.A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.P.
SUBMITTAL PHASE:	
DATE:	03/2024
KCI JOB #:	762308220
SHEET:	509

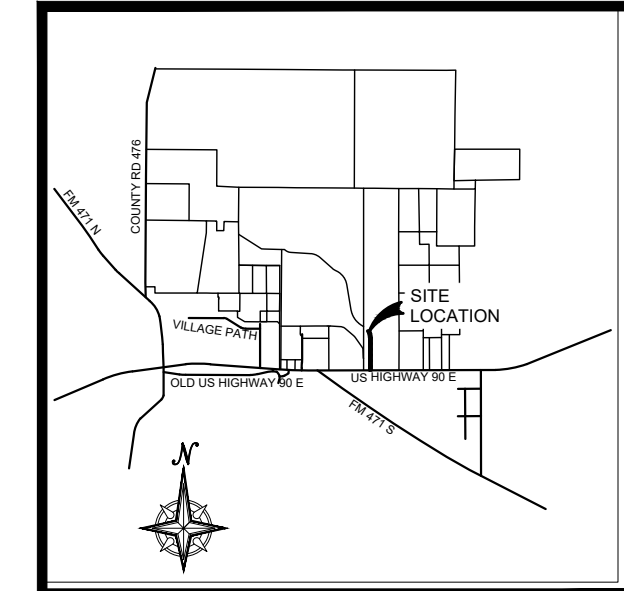
KCI TECHNOLOGIES, INC.

2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9899
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65

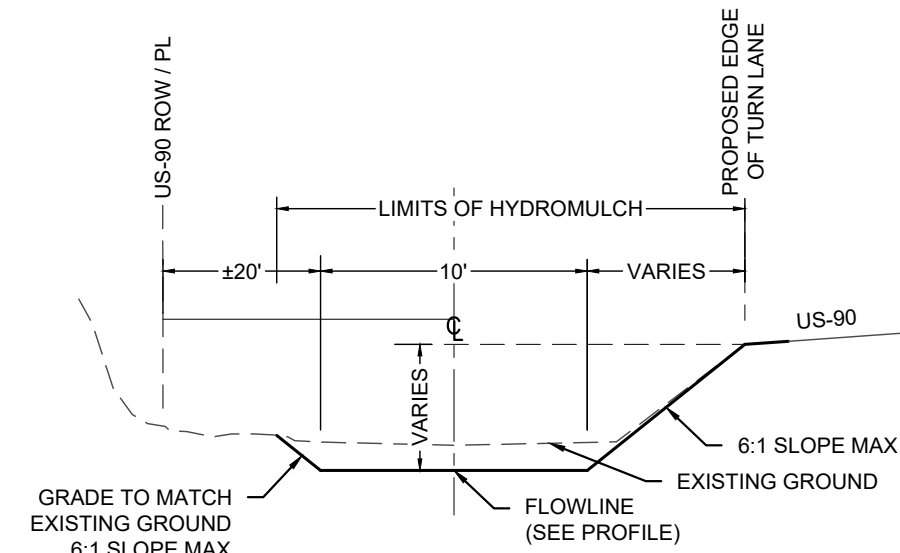


FOR BIDDING
PURPOSES ONLY
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION



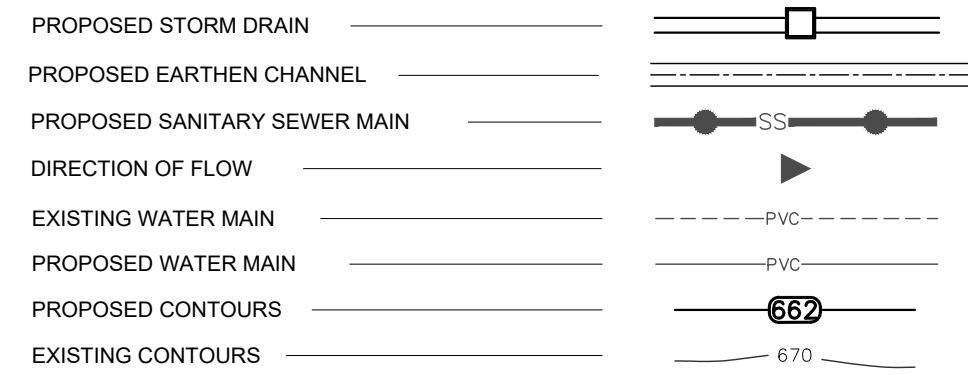
LOCATION MAP



SECTION "B-B"

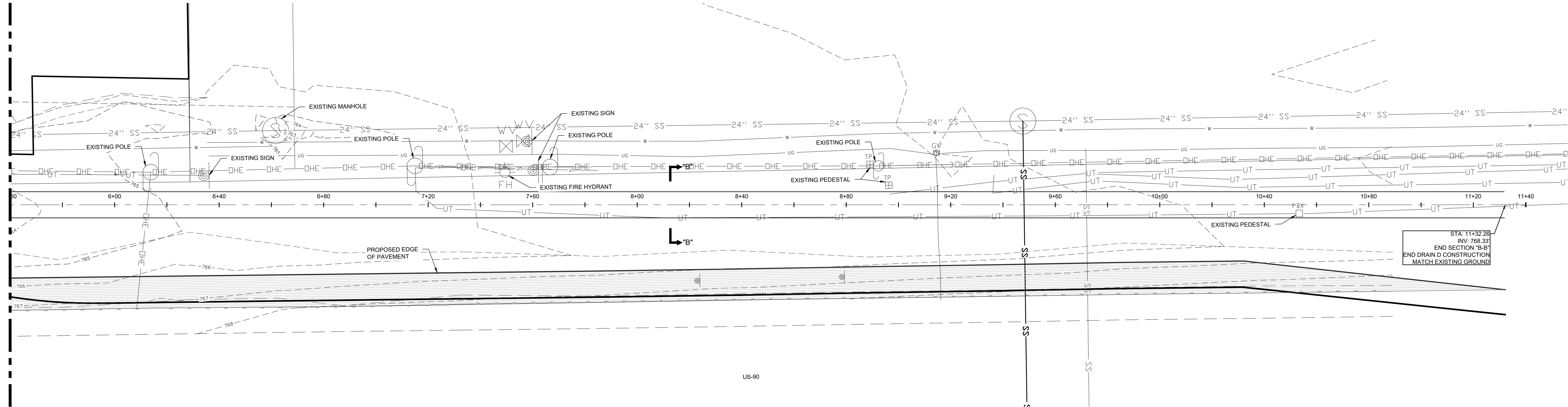
STA: 5+46.02 TO STA: 11+32.26

LEGEND



NOTE:
CONTRACTOR SHALL PROTECT ALL EXISTING INFRASTRUCTURE AND IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION. CONTACT ENGINEER WITH ANY QUESTIONS.

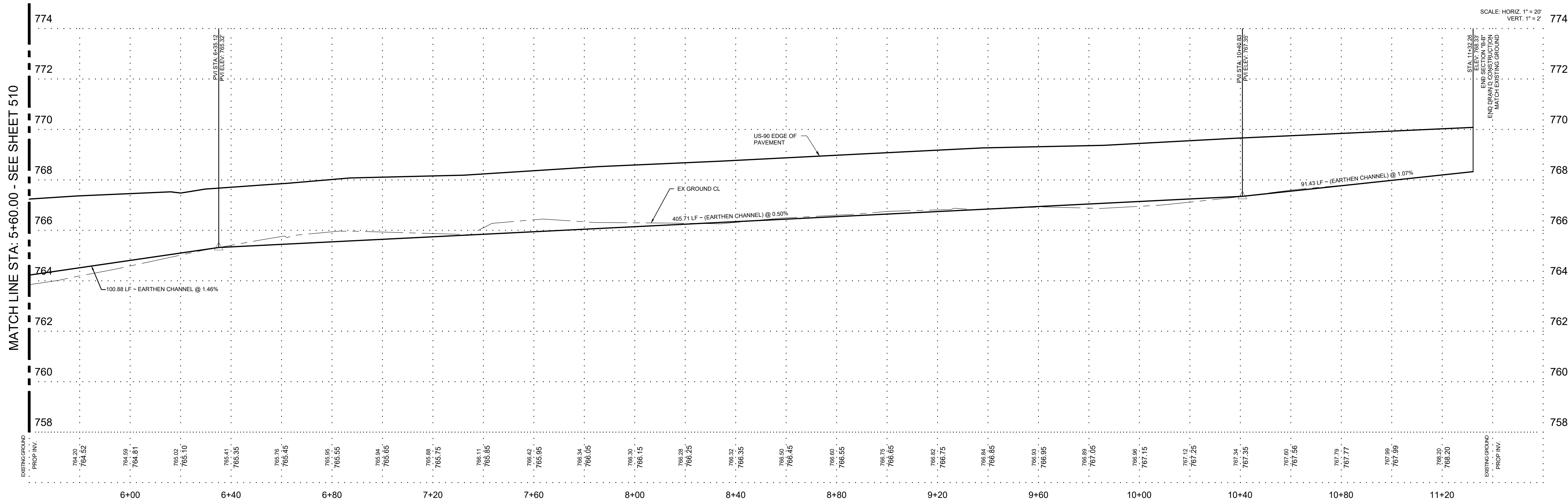
MATCH LINE STA: 5+60.00 - SEE SHEET 510



DRAIN D

STA: 5+60.00 TO STA: 11+32.26

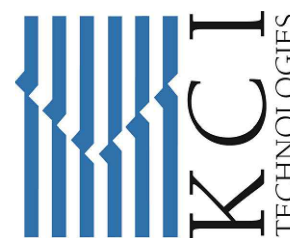
MATCH LINE STA: 5+60.00 - SEE SHEET 510



FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
DRAIN D PLAN AND
PROFILE

KCI TECHNOLOGIES, INC.

2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65



DRAFTING: G.P.A.M. CHECK: L.E.
DESIGN: L.E. CHECK: C.P.
SUBMITTAL PHASE:
DATE: 03/2024
KCI JOB #: 762308220
SHEET:

511

BY: INTC
PROJECT: NO. S231303
BY: DECEMBER 7, 2023
REVISED: N/A

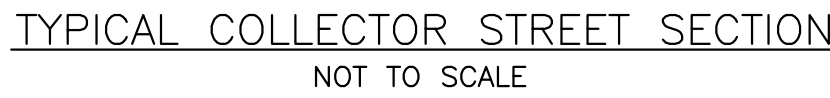
PAVEMENT DESIGN WAS PREPARED BY inTEC

KINGS CREEK	STA. 10+50.02	TO	11+89.47
	STA. 11+99.47	TO	23+84.34

** TX-5 GEOGRID TO BE PLACED AT BOTTOM OF FLEX BASE LAYER

PAVEMENT DESIGN WAS PREPARED BY RABA KISTNER

KINGS CREEK STA. 11+89.47 TO 11+99.47

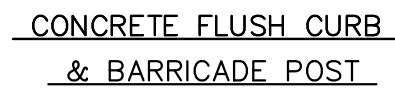
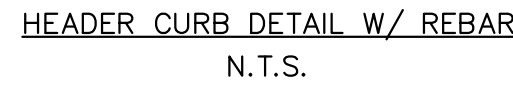
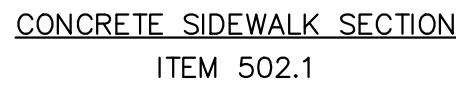


SUBGRADE MATERIAL NOTE:

1. SUBGRADE SOIL PLASTICITY INDEX SHOULD BE LESS THAN OR EQUAL TO 20 FOR PRIMARY PAVEMENT DESIGN.
2. IF THE SUBGRADE SOIL PLASTICITY INDEX VALUE IS GREATER THAN 20, THEN ONE OF THE FOLLOWING OPTIONS SHOULD BE FOLLOWED:
 - 2.a. THE SUBGRADE SHOULD BE STABILIZED TO A DEPTH OF 6 INCHES (SEE ALTERNATE PAVEMENT DESIGN).
 - 2.b. THE EXPANSIVE CLAYS SHOULD BE REMOVED AND REPLACED WITH SOILS WITH A PLASTICITY INDEX VALUE OF 20 OR LESS.
3. GEOTECHNICAL ENGINEER SHALL BE ON SITE TO MAKE SUBGRADE DETERMINATION AND PROVIDE/SUBMIT LETTER INDICATING STATION TO STATION FOR PLACEMENT OF EACH PVM'T. DESIGN SECTION TO BE APPROVED BY ENGINEER PRIOR TO PLACEMENT OF BASE.


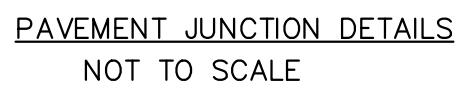
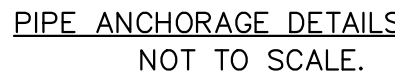
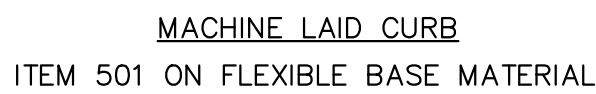
FOR CONSTRUCTION VERIFICATION THE FOLLOWING SHALL BE CONDUCTED IN THE FIELD:

- AFTER INITIAL MIXING THE SOIL-LIME MIXTURE SHALL MELLOW FOR A PERIOD OF TWO TO THREE (2 - 3) DAYS.
- MAINTAIN MOISTURE DURING MELLOWING.
- AFTER MELLOWING AND FINAL MIXING, THE PULVERIZATION SHALL BE CHECKED USING THE FOLLOWING CRITERIA (REMOVE NON-SLAKING AGGREGATES RETAINED ON THE ¾ INCH SIEVE FROM THE SAMPLE):
 - MINIMUM PASSING 1 ¼" SIEVE 100
 - MINIMUM PASSING ¾" SIEVE 85
 - MINIMUM PASSING NO. 4 SIEVE 60
- SAMPLE SOIL-LIME MIXTURE FOR DETERMINATION OF MAXIMUM DRY DENSITY (MDD). IN THE LABORATORY, MOLD SPECIMENS TO 95% OF MDD AT OPTIMUM MOISTURE CONTENT AND VERIFY UCS TO BE AT LEAST 160 PSI IN WITH PROCEDURE OUTLINED ABOVE FOR MIXTURE DESIGN.
- COMPACT AND CHECK FIELD DENSITY (MINIMUM OF 95% OF MDD REQUIRED);
- CURE FOR AN ADDITIONAL 2 TO 5 DAYS (TOTAL MELLOWING AND CURING TIME SHOULD TOTAL AT LEAST 5 DAYS);
- VERIFY DEPTH OF LIME STABILIZED LAYER TO DEPTH AS NOTED ON PLAN TO WITHIN +/- 1.0 INCH.



NOTE:

1. ALLOW FOR REFLECTION BUTTONS ON BARRICADE POST. USE ONE 3" BUTTON PER POST.
2. POST SHALL RECEIVE TWO COATS OF ALUMINUM PAINT.
3. 6" X 5'-6" BARRICADE POST PLACED 6" BACK OF CURB WITH 2'-4" ABOVE GROUND & 3'-2" BELOW GROUND. (5'-0" o.c. TYP.)

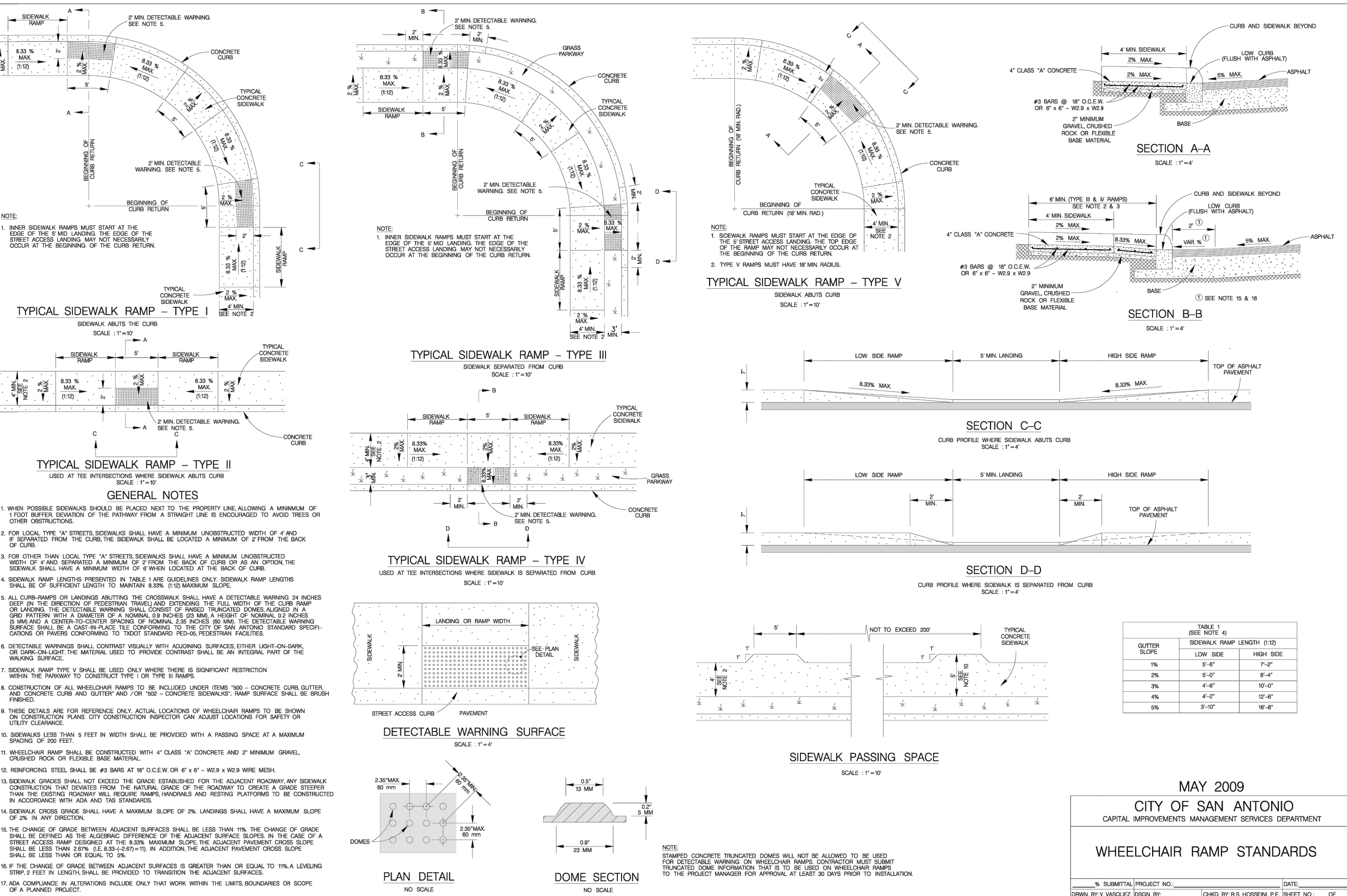



FLAT CREEK SUBDIVISION COMMERCIAL COLLECTOR STREET DETAILS

DRAFTING: G.P./A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.P.
SUBMITTAL PHASE:	
DATE:	03/20/2012
KCI JOB #:	76230822
SHEET:	

512

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARD COPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.



SHEET 2 OF 4		<i>Design Division Standard</i>
	TEXAS DEPARTMENT OF TRANSPORTATION	
<h1 style="margin: 0;">PEDESTRIAN FACILITIES</h1> <h2 style="margin: 0;">CURB RAMPS</h2>		
<h1 style="margin: 0;">PED-18</h1>		
FILE# PED18 TXDOT# MARCH, 2002	DW TxDOT CONT SECT	DW VPI JOB
REVISIONS REVISED 04/2005 REVISED 04/2012 REVISED 07/2014	DIST	DW KM CK PK, B, & SIGNWAY COUNTY SHEET NO.

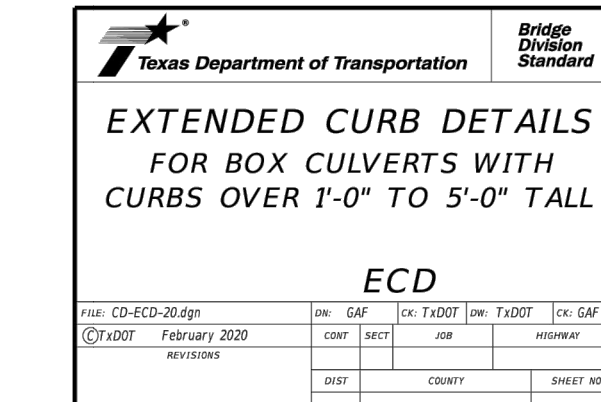
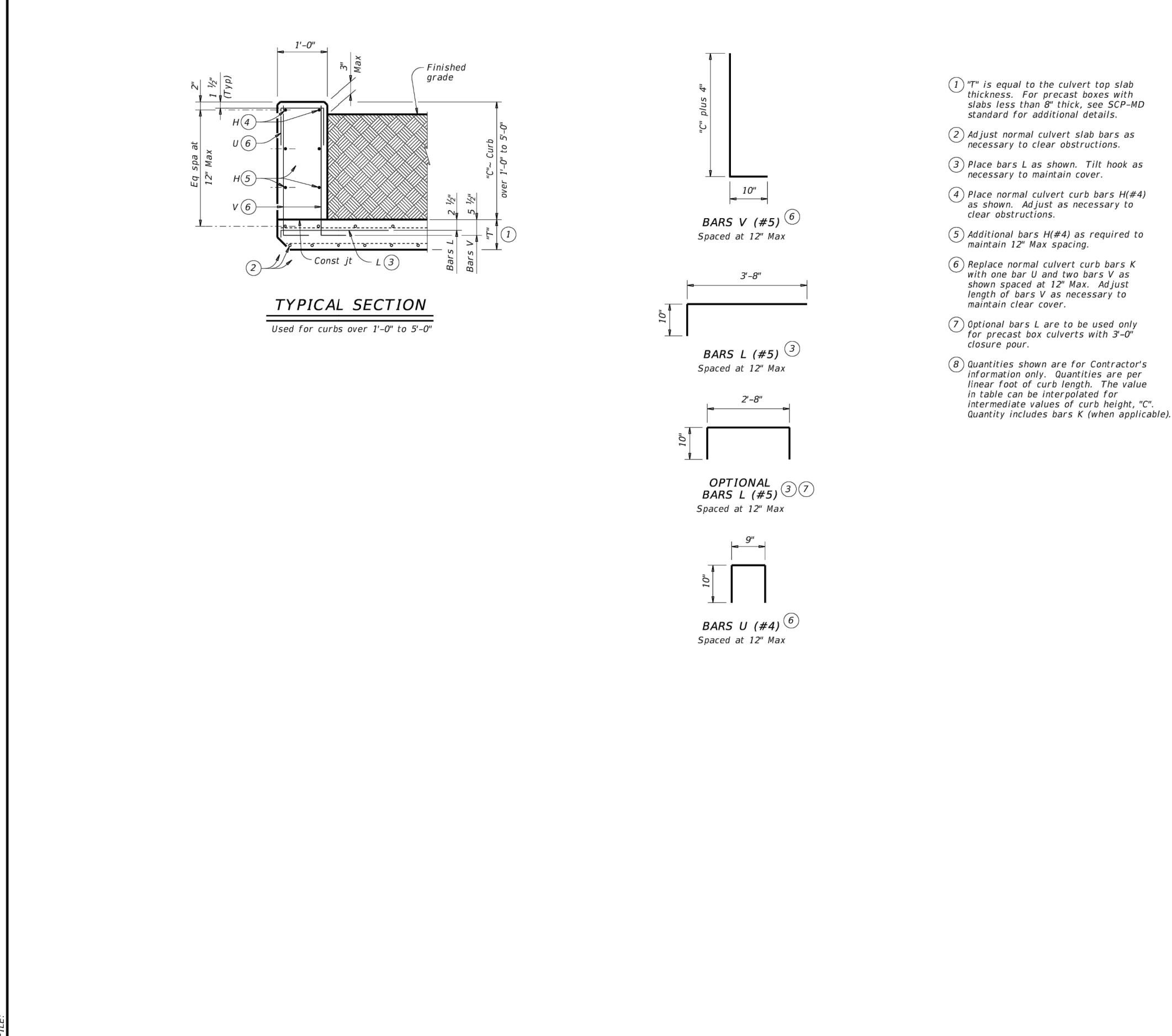
DRAFTING: G.P./A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.P.
SUBMITTAL PHASE:	
DATE:	03/20/2012
KCI JOB #:	76230822
SHEET:	
513	

[illegible]

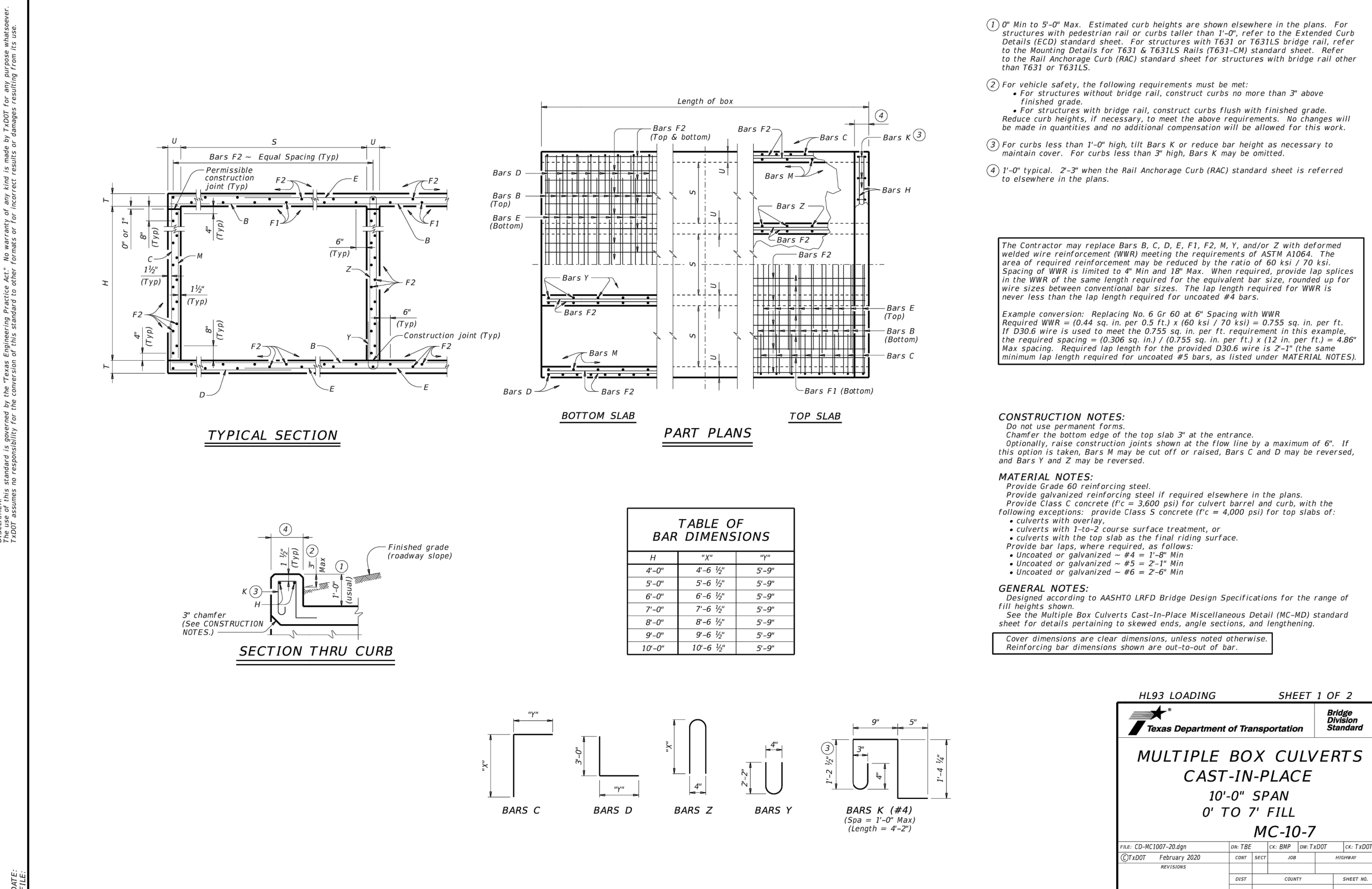
SEAL:

DISCLAIMER:
The use of this standard is governed by the Texas Engineering Practice Act. No part of any law made by TACET for any purpose whatsoever.
TACET assumes no responsibility for the construction of this standard or the manner in which it is applied or the results or damages resulting from its use.

DATE:
FILE:

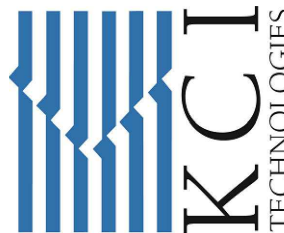


DISCLAIMER:
The use of this standard is governed by the Texas Engineering Practice Act. No part of any law made by TACET for any purpose whatsoever.
TACET assumes no responsibility for the construction of this standard or the manner in which it is applied or the results or damages resulting from its use.



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NOT FOR CONSTRUCTION

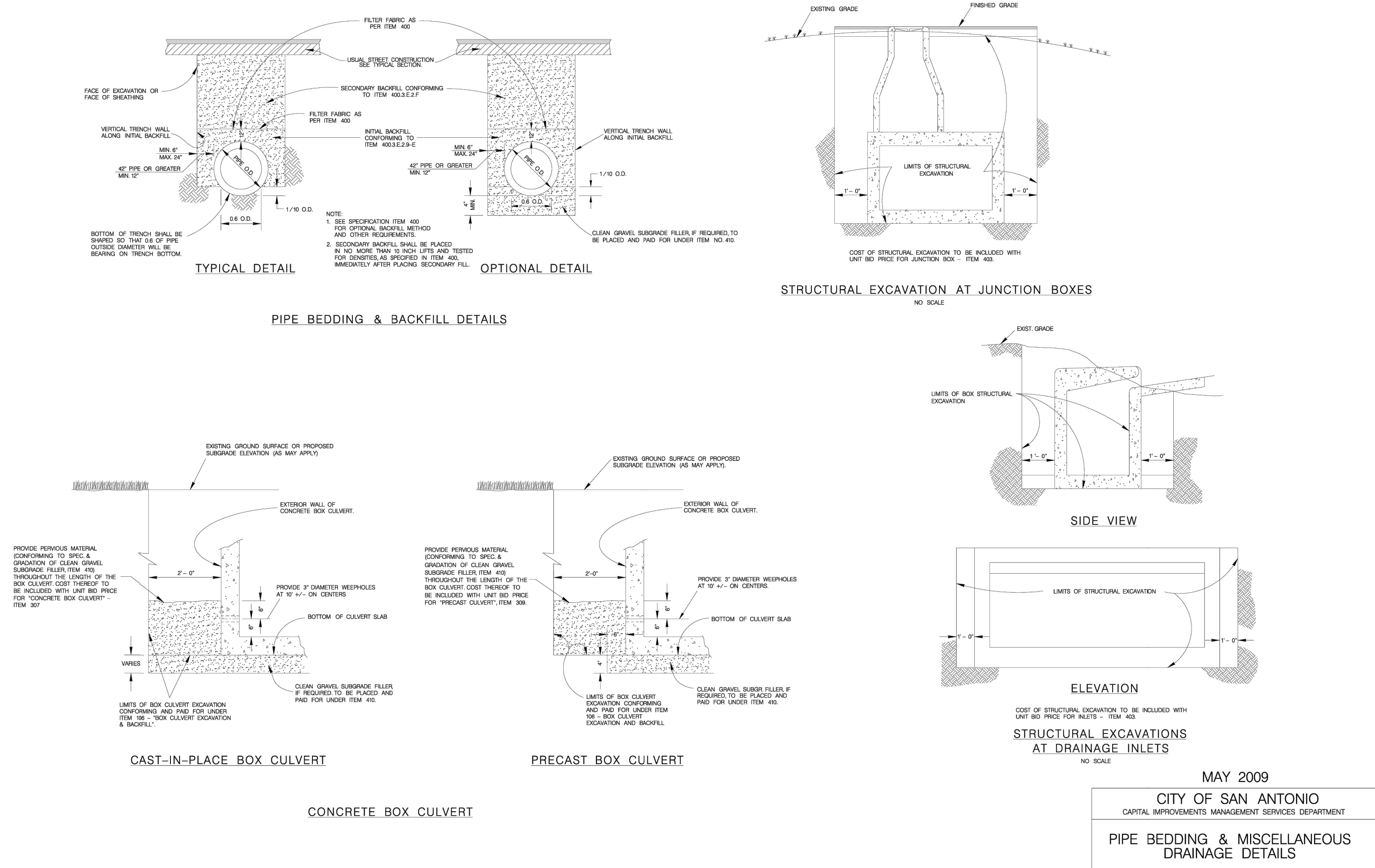
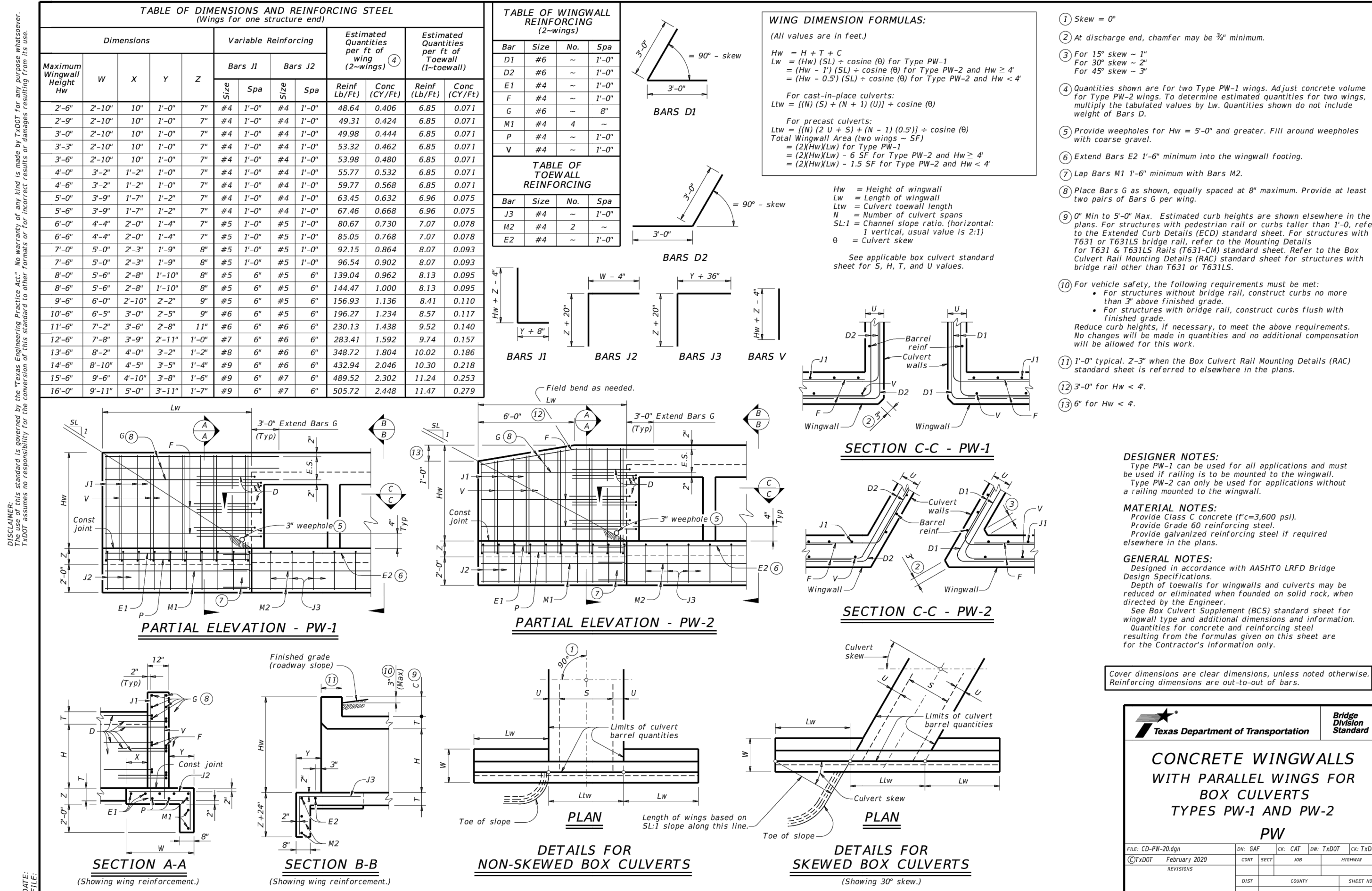
REGISTRATION #1073 / #101943-65



KCI TECHNOLOGIES, INC.

2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440

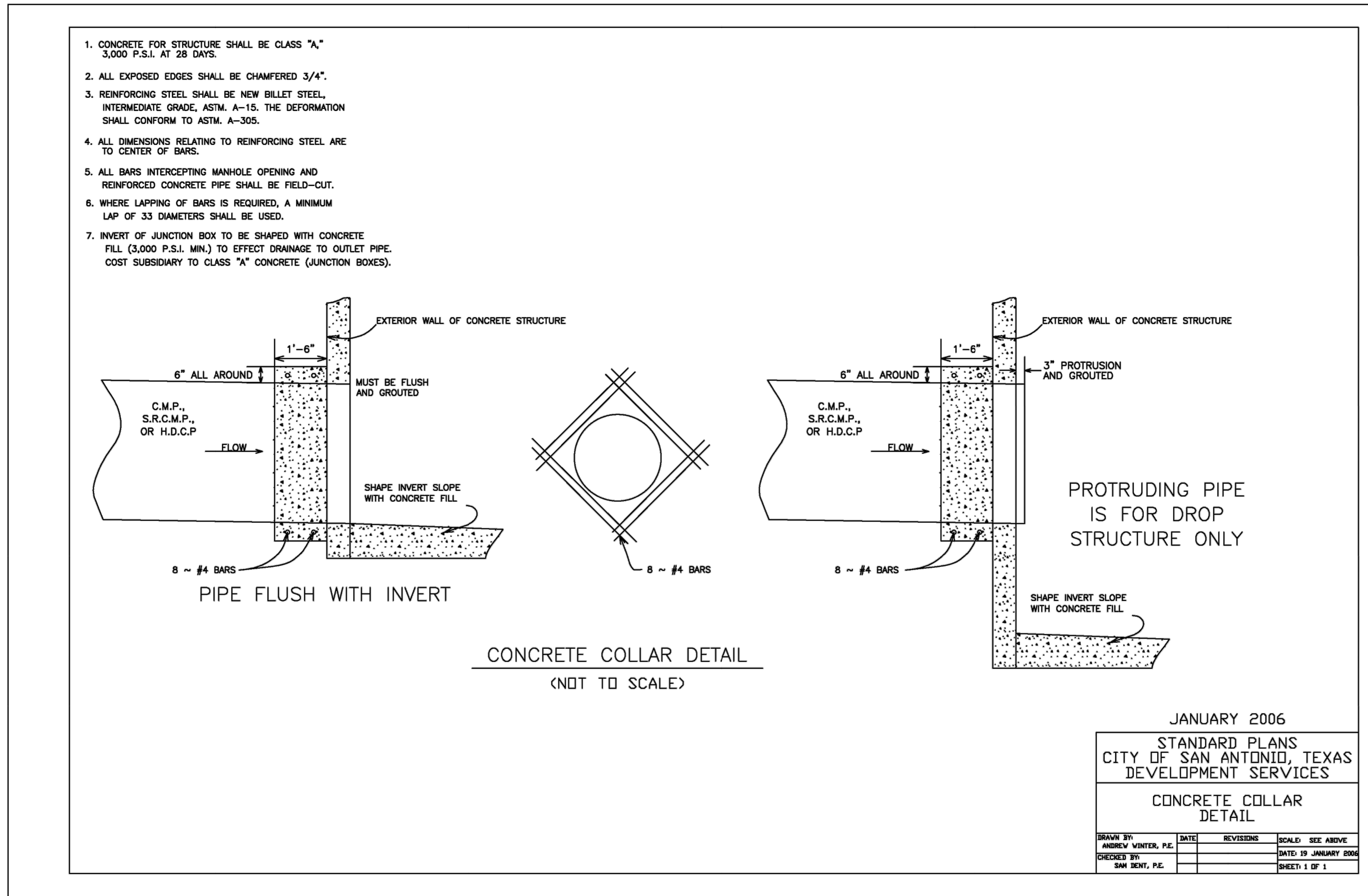
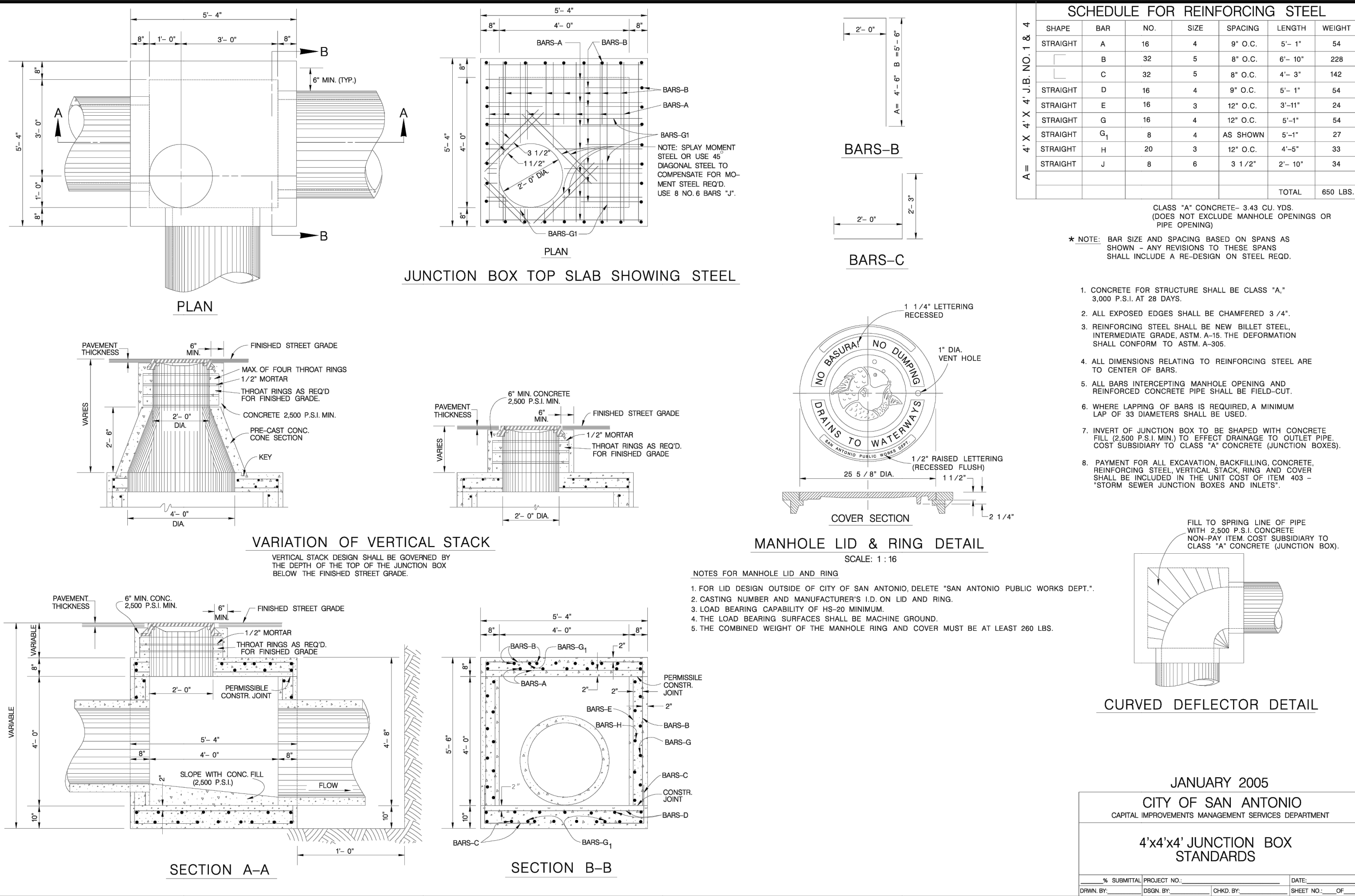
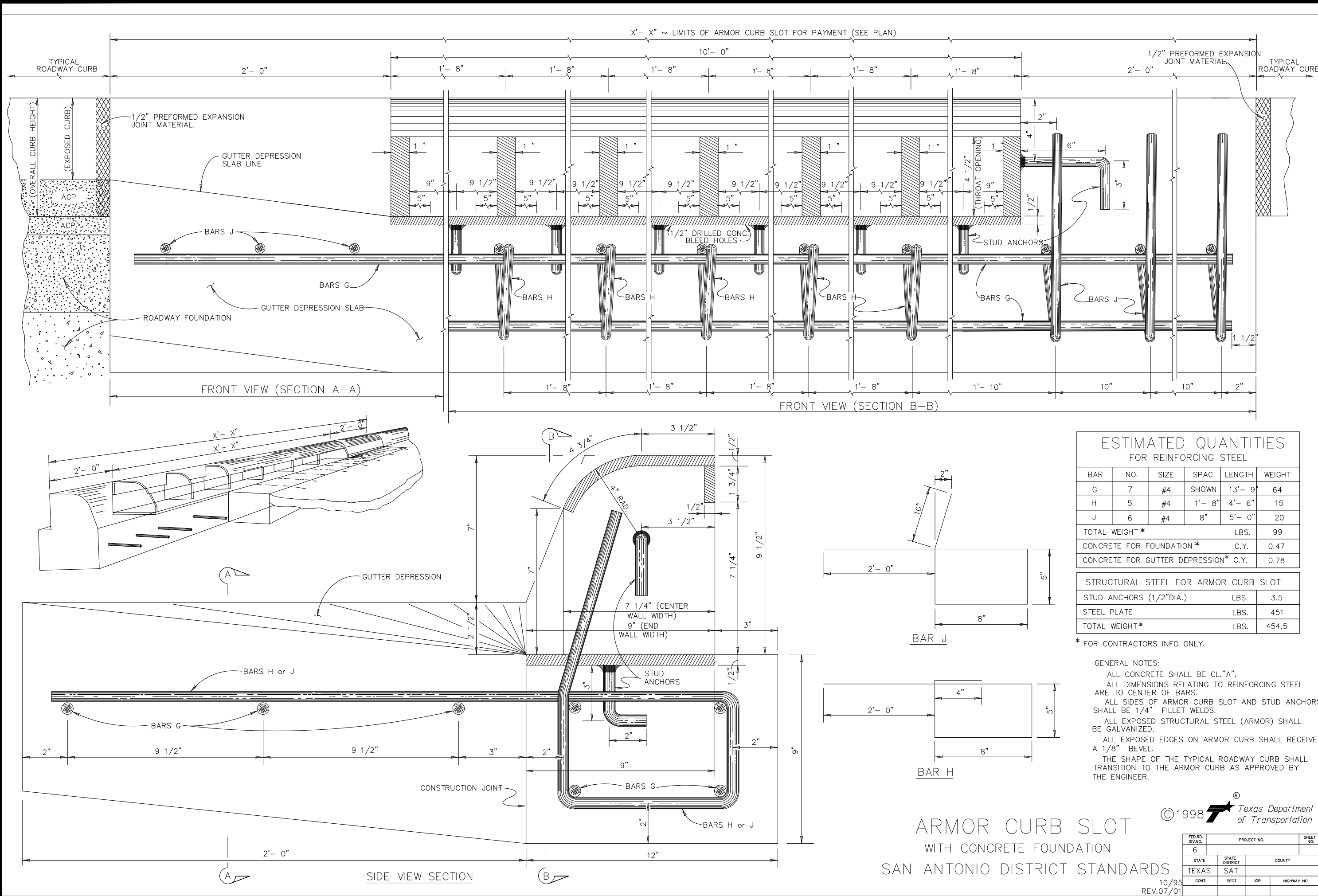
REGISTRATION #1073 / #101943-65



FLAT CREEK SUBDIVISION COMMERCIAL COLLECTOR DRAIN DETAILS

DRAFTING: S.P.A.M. CHECK: L.E.
DESIGN: L.E. CHECK: C.P.
SUBMITTAL PHASE:
DATE: 03/2024
KCI JOB #: 762308220
SHEET: 514

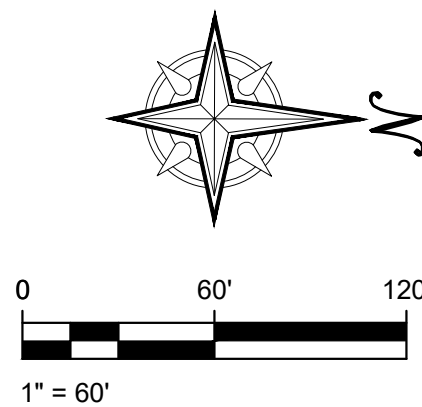
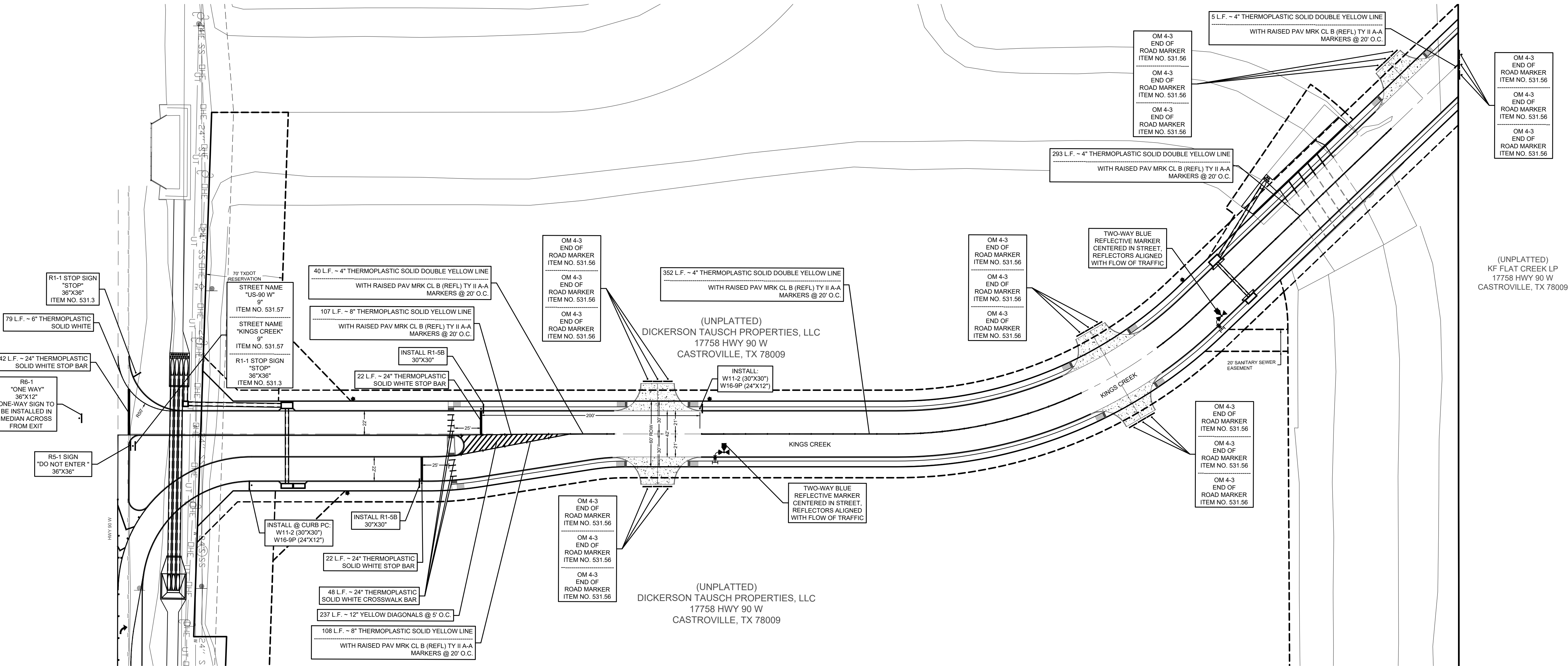
THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARD COPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.



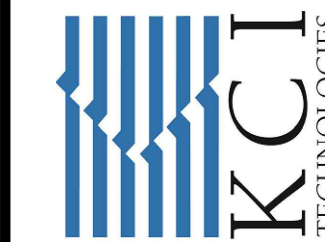
FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
DRAIN DETAILS

DRAWING BY:	AMIR V. VIKTOR, P.E.	CHECK:	L.E.
DESIGN:	L.E.	CHECK:	C.P.
SUBMITTAL PHASE:			
DATE:	03/2024		
KCI JOB #:	762308220		
SHEET:			

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARD COPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.



FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
OVERALL SIGN PLAN



KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65

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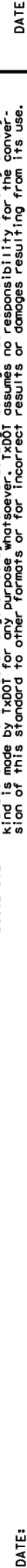
REV	DATE	DESCRIPTION

DRAFTING: G.P.A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.P.
SUBMITTAL PHASE:	
DATE:	03/2024
KCI JOB #:	762308220
SHEET:	

517

Date: Nov 18, 2024, 11:40am User: D:\Users\gpm\OneDrive\Documents\Projects\Flat Creek Subdivision\Collector_Signs\Overall_Sign_Plan.dwg Plot: 762308220.dwg


DATE: _____



6" min to edge or joint

5/8" diameter Concrete Anchor - 8 places (embed a minimum of 1 1/2" and torque to min. of 50 ft.-lbs). Anchor may be expansion or adhesive type.

SM RD SON ASSM TYP XXXXXX (X) SB (X-XXXX)

 **Texas Department of Transportation**
Traffic Operations Division

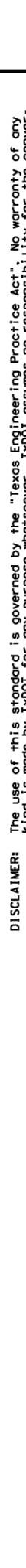
SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM


SMD (SLIP-1) - 08

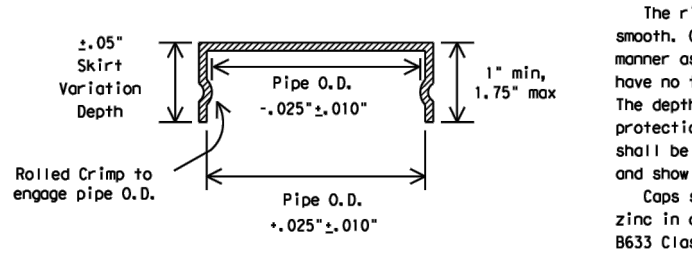
© TxDOT July 2002

9-08 REVISIONS

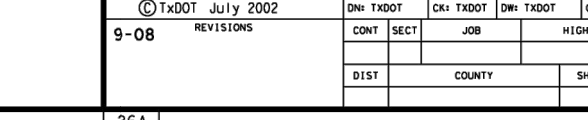
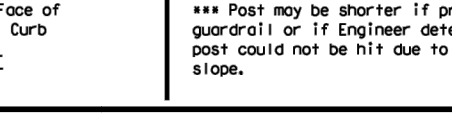
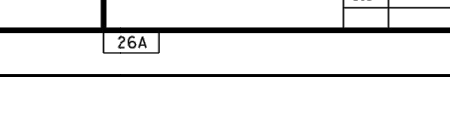
DN T8007	DN T1007	DN T8007	DN T1007
CONT	SECT	JOB	HIGHWAY
BIST	COUNTY	SHEET	



 Texas Department of Transportation Traffic Operations Division				
SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD (SLIP-2) - 08				
(TxDOT) July 2002 9-08 REVISIONS				
DOW TxDOT CONF		CEN TxDOT SECT		CEN TxDOT JOB
				HIGHWAY
DIST		COUNTY		SHEET

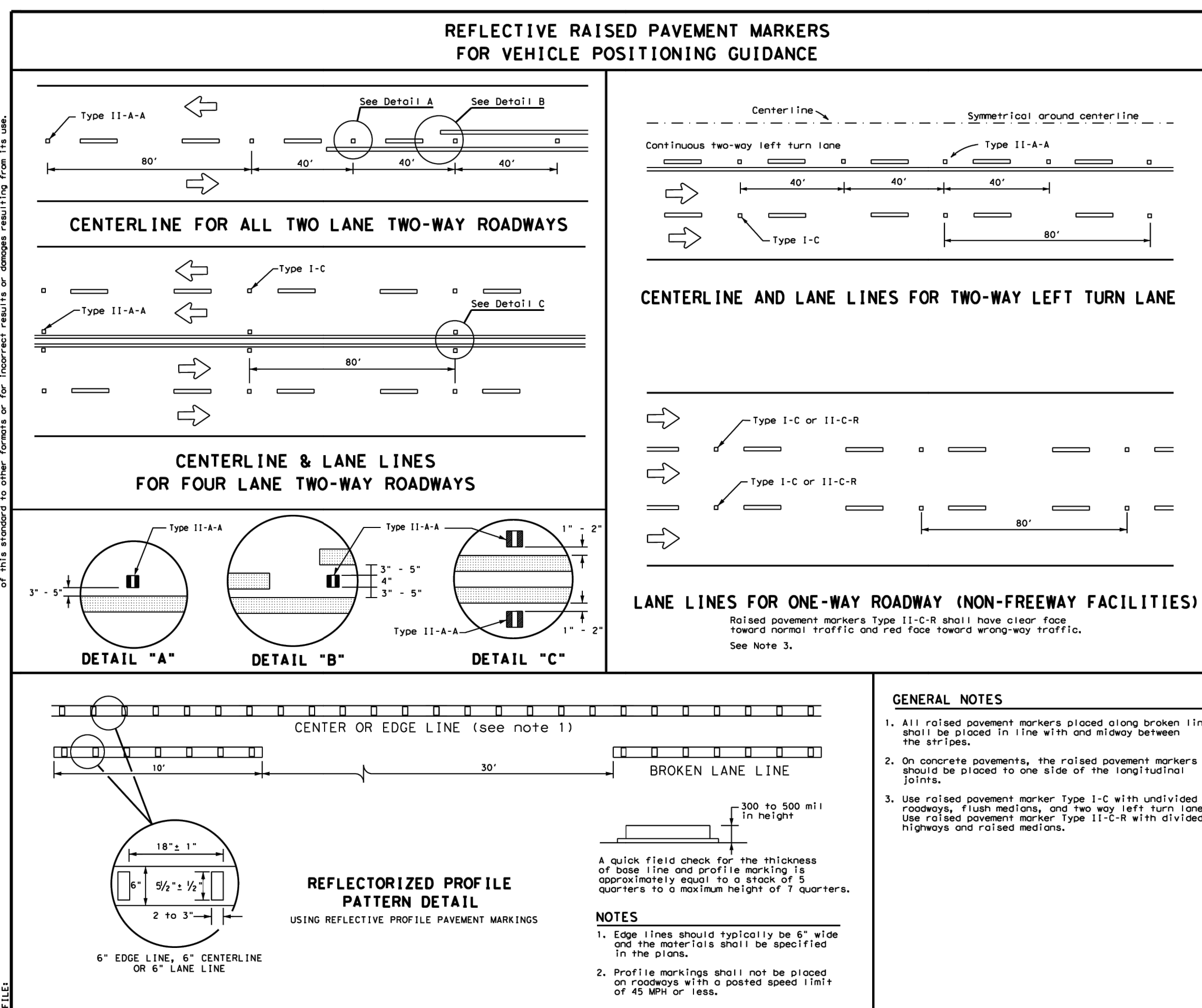
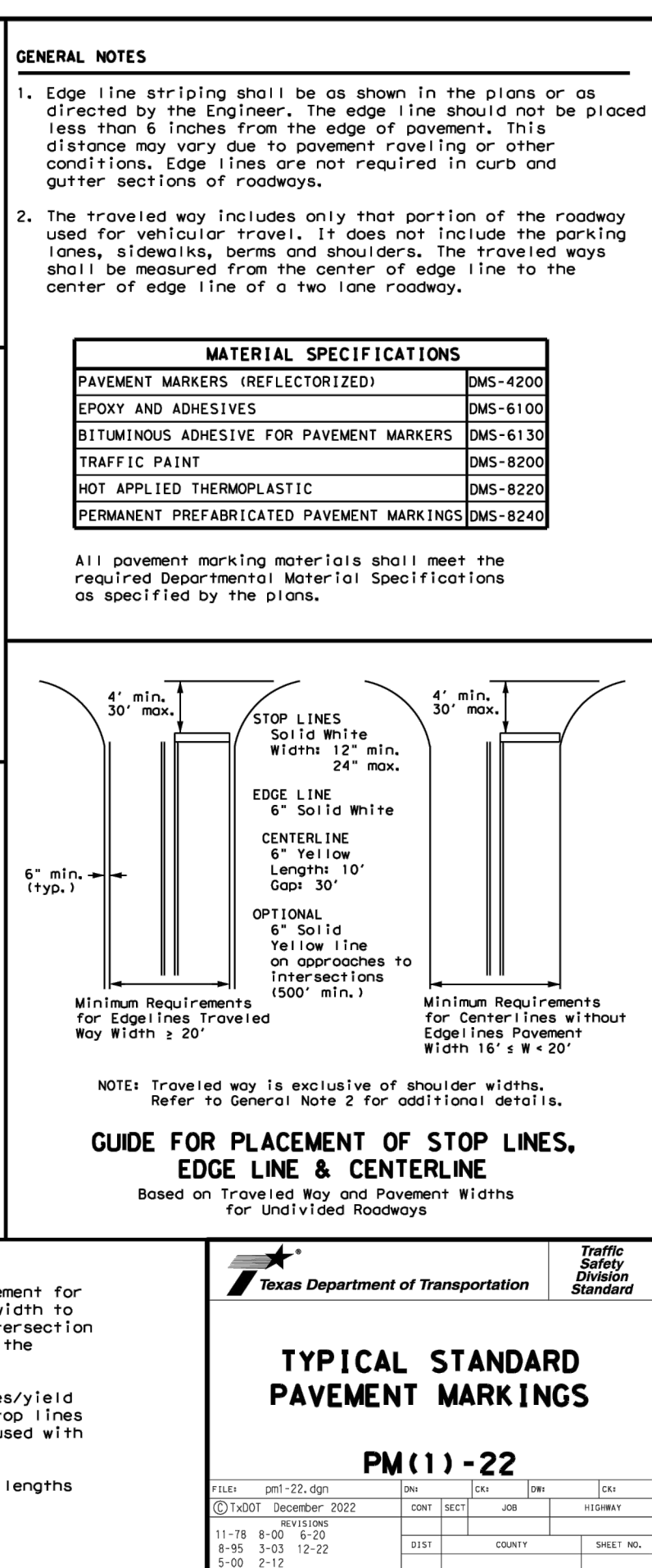
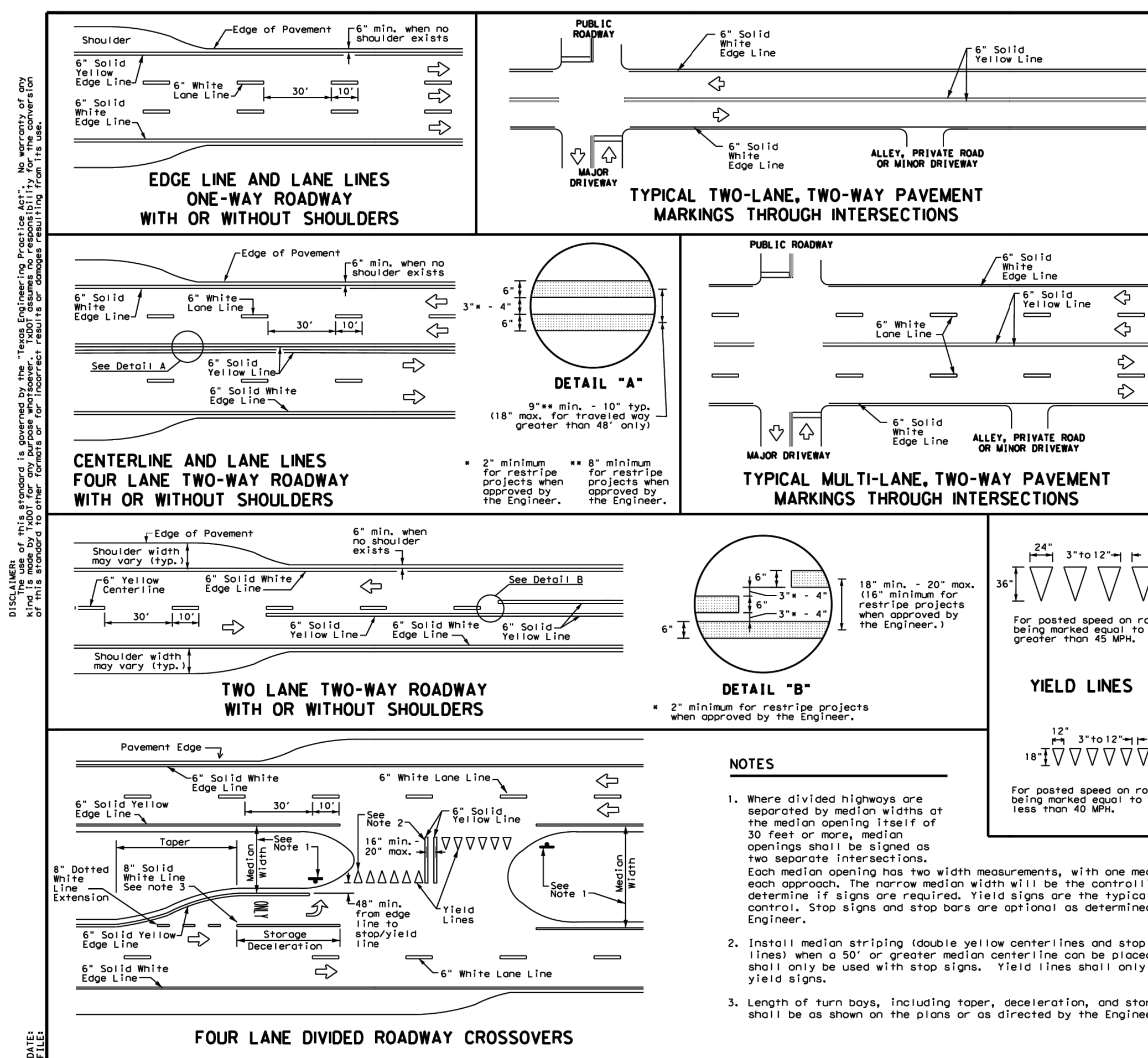


		SMD (SLIP-3) -08				
© TxDOT July 2002		DN TxDOT	CK TxDOT	DN TxDOT	CK	
9-08	REV1510NS	CONT	SECT	JOB	HIGHWAY	
		DIST	COUNTY			SHEET



© TxDOT July 2002		DATE TBOGT	CRK TBOGT	DWY TBOGT	CRK TBOGT
9-08	REVISIONS	COMT	SECT	JOB	HIGHWAY
		DIST	COUNTY	SHEET	

9-08 REV1500WS		DMI TXDOT CONT		CUI TXDOT SECT		DMI TXDOT JOB		CUI HIGHWAY	
		BEST		COUNTY				SHEET	



MATERIAL SPECIFICATIONS			
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200		
EPXY AND ADHESIVES	DMS-6100		
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130		
TRAFFIC PAINT	DMS-8200		
HOT APPLIED THERMOPLASTIC	DMS-8220		
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240		

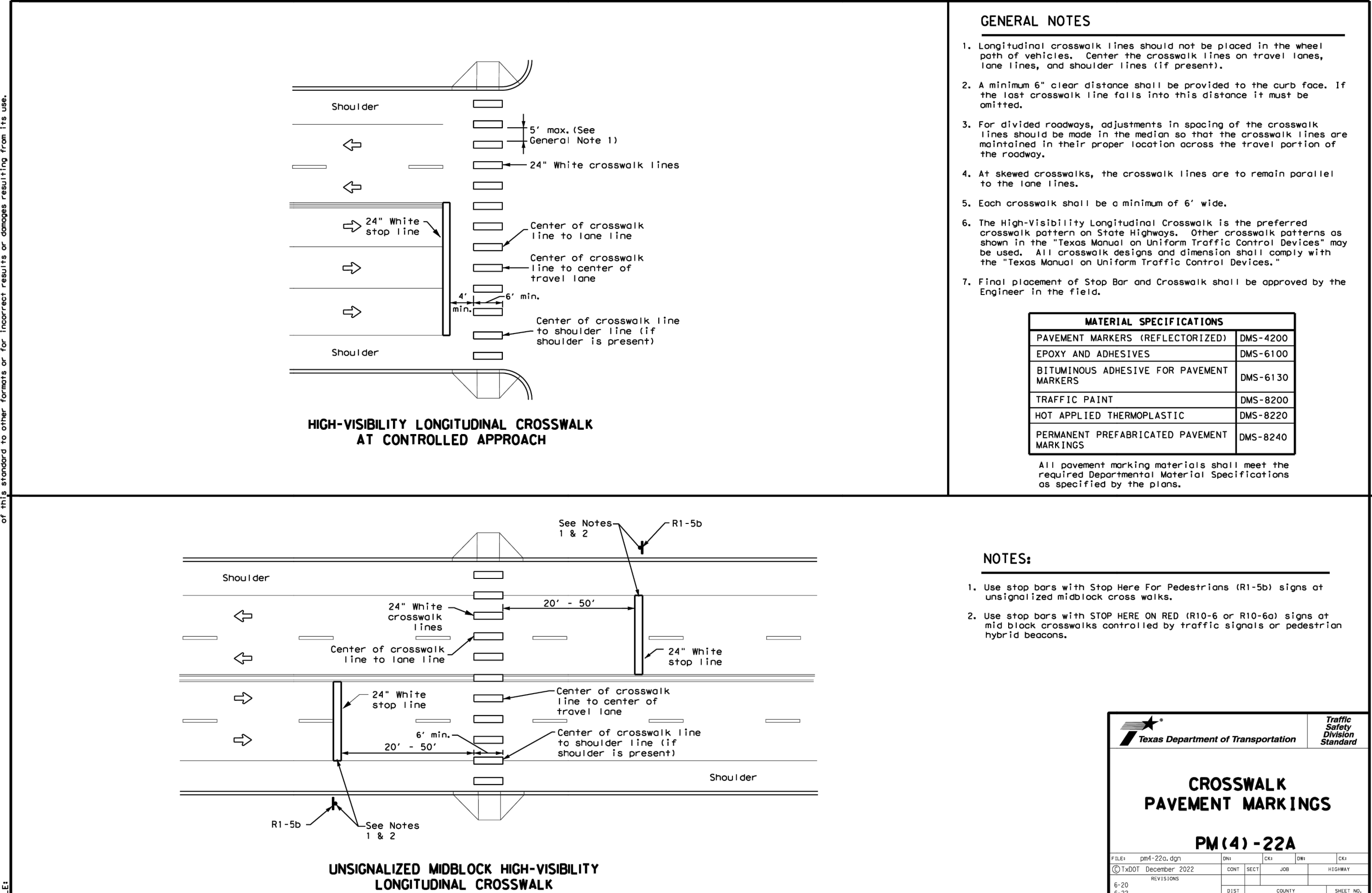
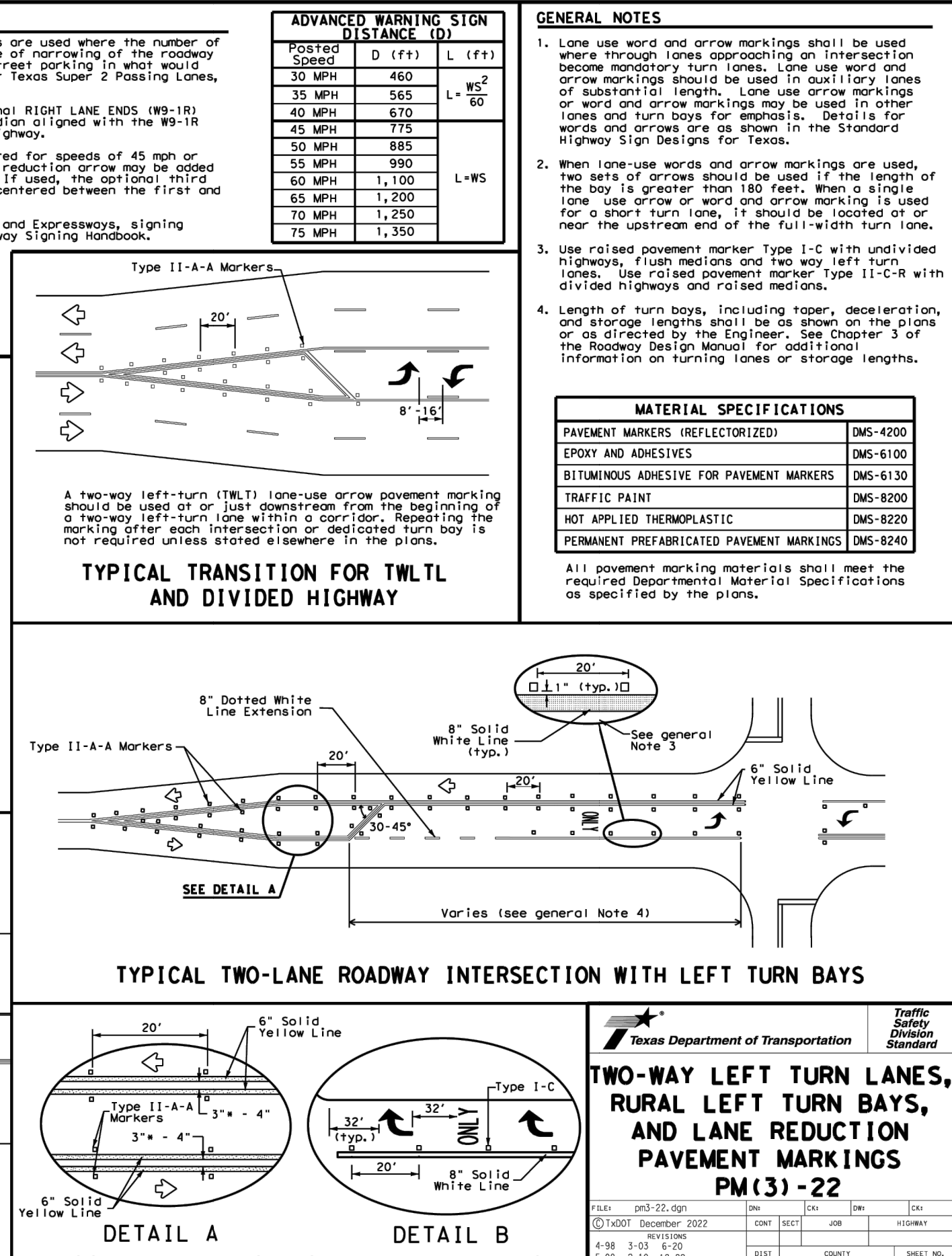
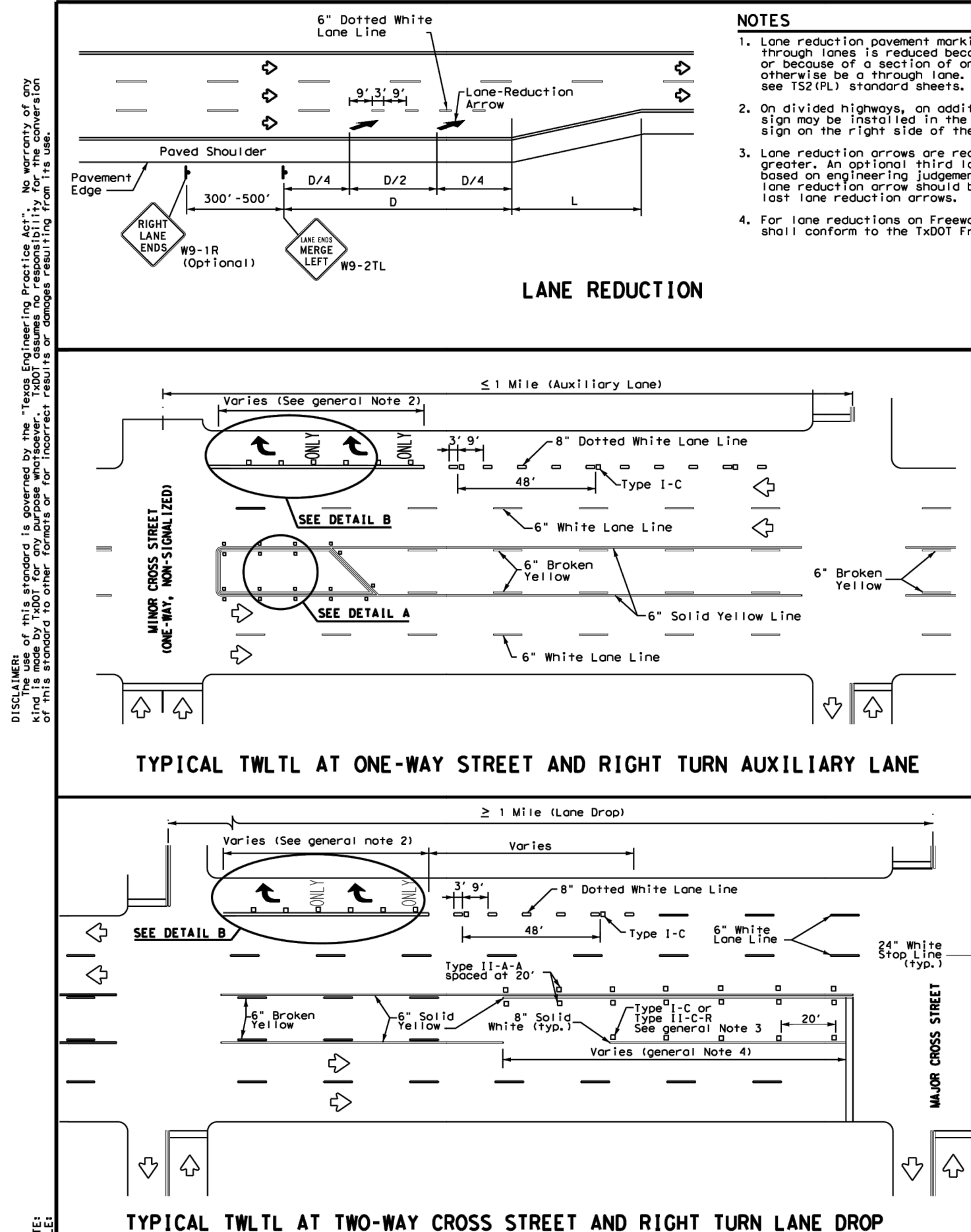
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

RAISED PAVEMENT MARKERS

POSITION GUIDANCE USING RAISED PAVEMENT MARKERS REFLECTORIZED PROFILE MARKINGS

PM(2)-22

DATE: FILE: 01/10/07 December 2002



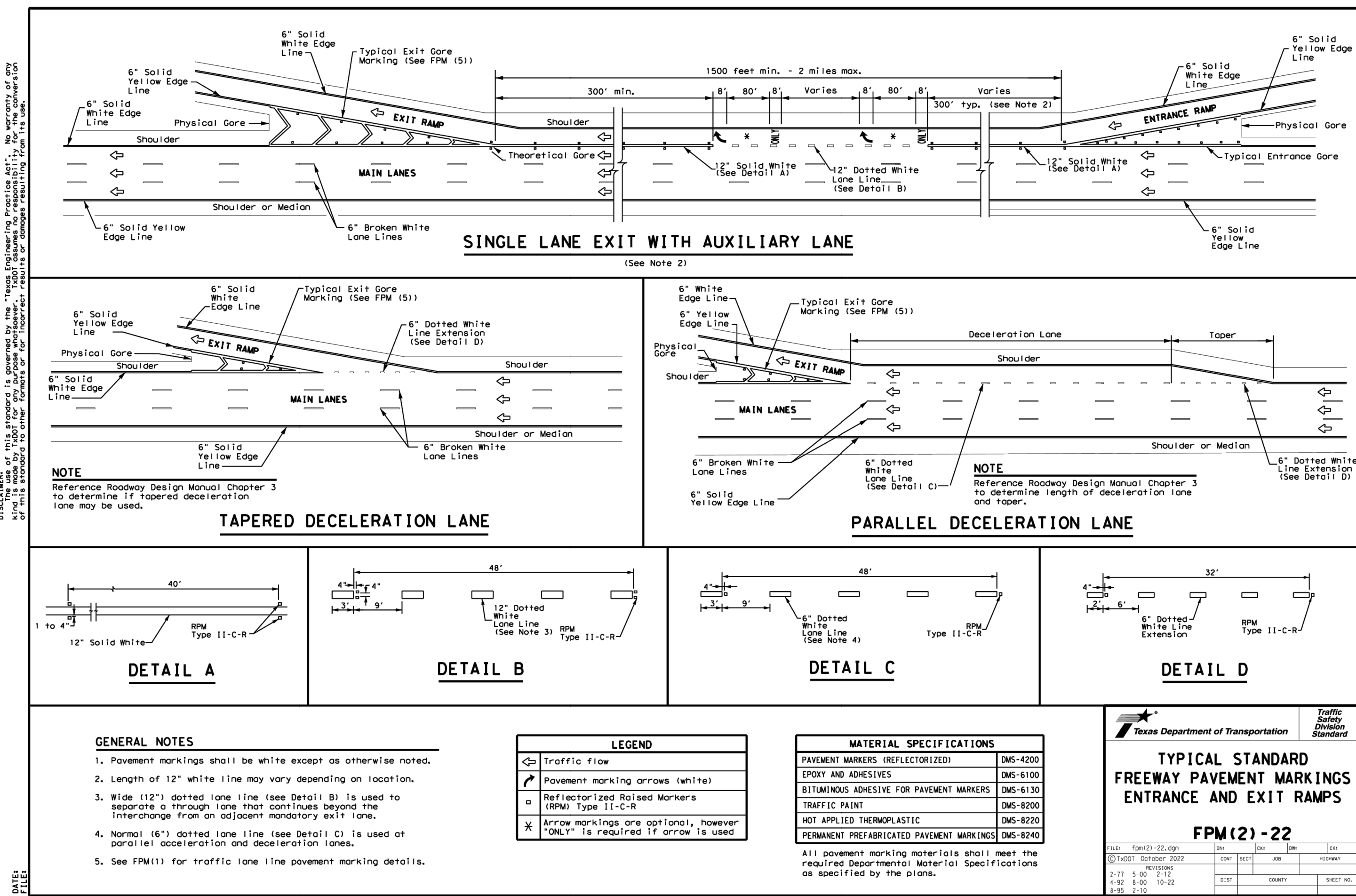
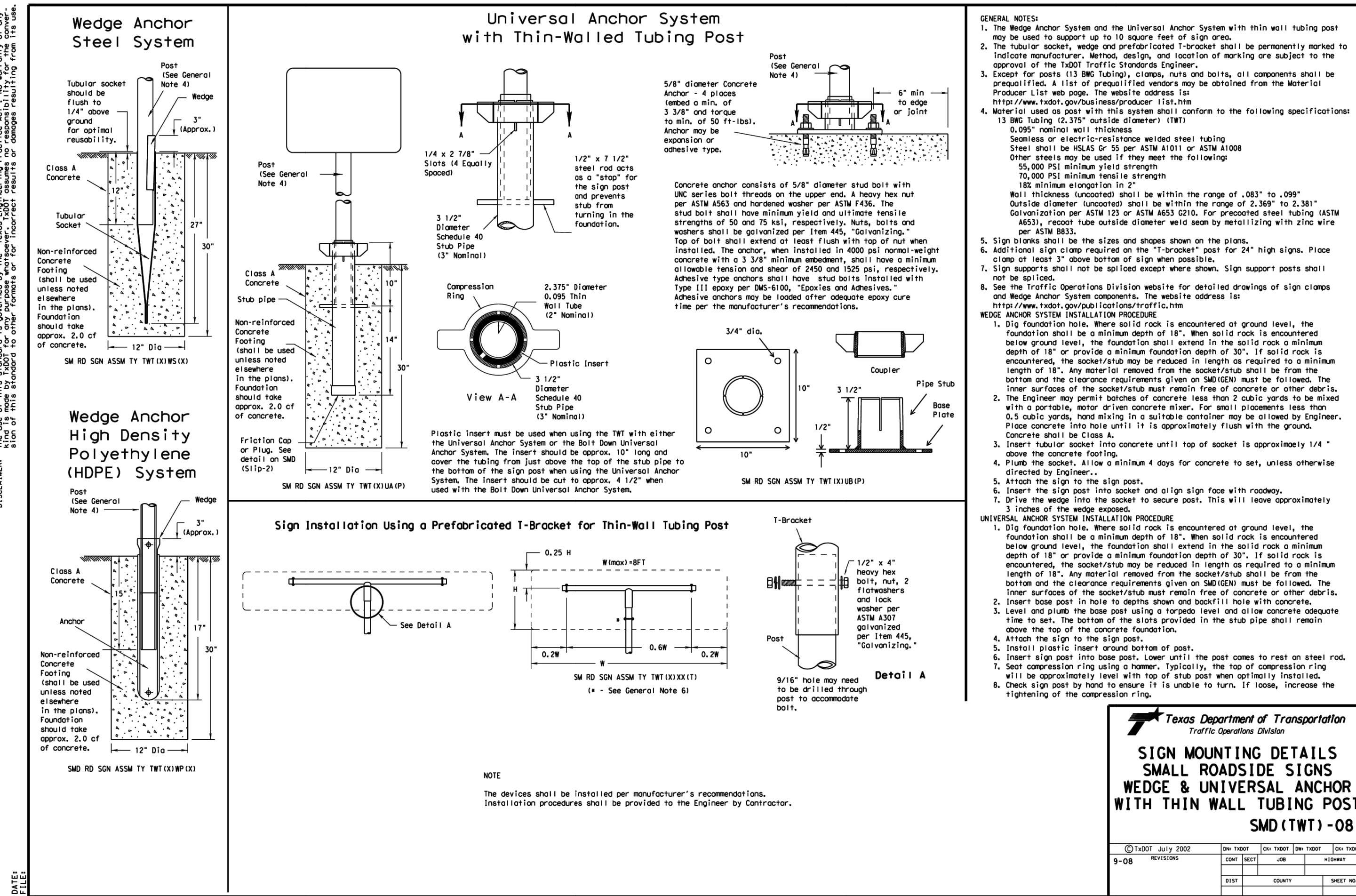
FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR

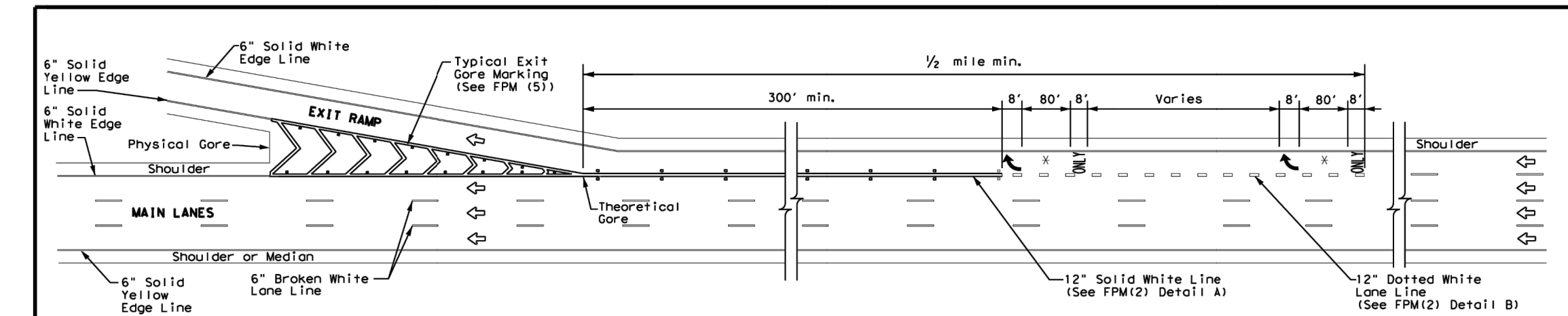
SIGN DETAILS

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PURPOSES ONLY
NOT FOR CONSTRUCTION

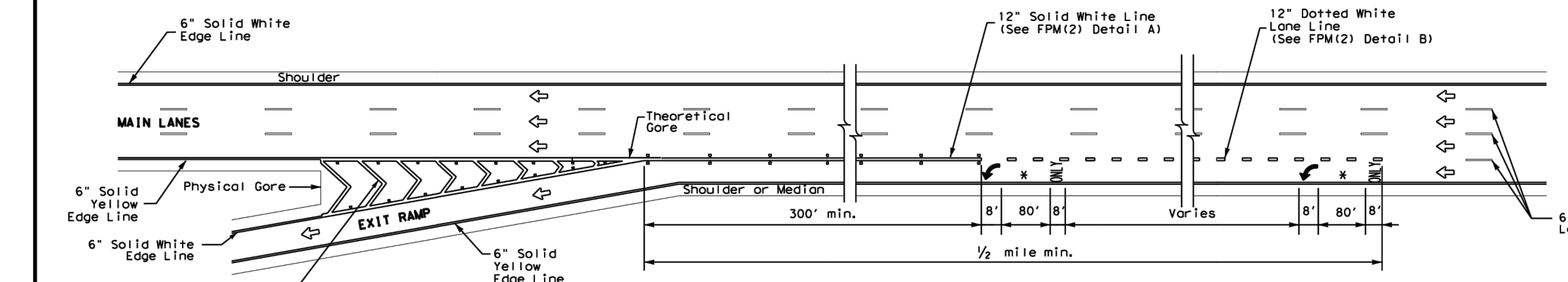
KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65



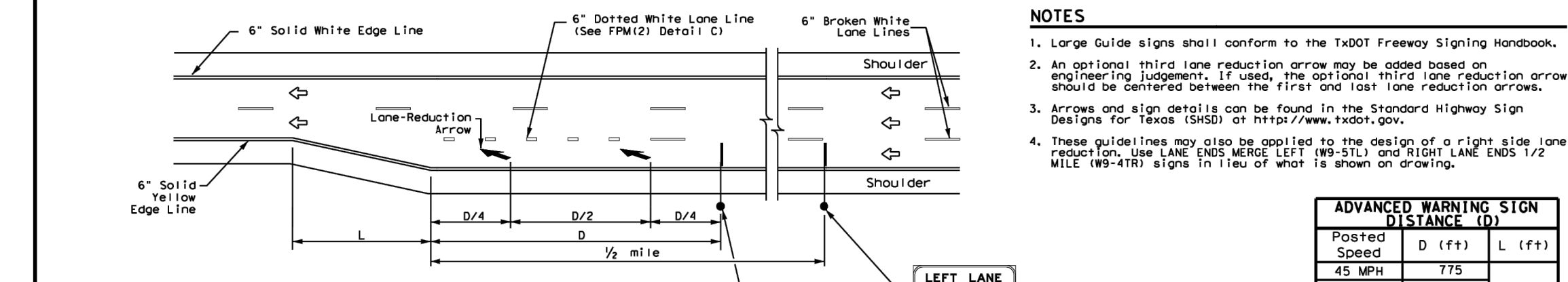




SINGLE LANE EXIT - LANE DROP OR EXIT ONLY



SINGLE LANE EXIT - LANE DROP OR EXIT ONLY (LEFT SIDE)



FREEWAY LANE REDUCTION

- NOTES**
1. Large guide signs shall conform to the TxDOT Freeway Signage Handbook.
 2. An optional third lane reduction arrow may be added based on engineering judgment. If used, the optional third lane reduction arrow should be centered between the first and last lane reduction arrows.
 3. Arrows and sign details can be found in the Standard Highway Sign Design for Texas (SHSD) at <http://www.txdot.gov>.
 4. These guidelines may also be applied to the design of a right side lane reduction. Use LANE ENDS MERGE LEFT (W9-51L) and RIGHT LANE ENDS 1/2 MILE (W9-41R) signs in lieu of what is shown on drawing.

Posted Speed	D (ft)	L (ft)
45 MPH	775	
50 MPH	855	
55 MPH	990	
60 MPH	1,100	
65 MPH	1,200	
70 MPH	1,250	
75 MPH	1,350	
80 MPH	1,500	
85 MPH	1,625	

LANE ENDS MERGE RIGHT W9-51R

LEFT LANE ENDS 1/2 MILE W9-41L

L=WS

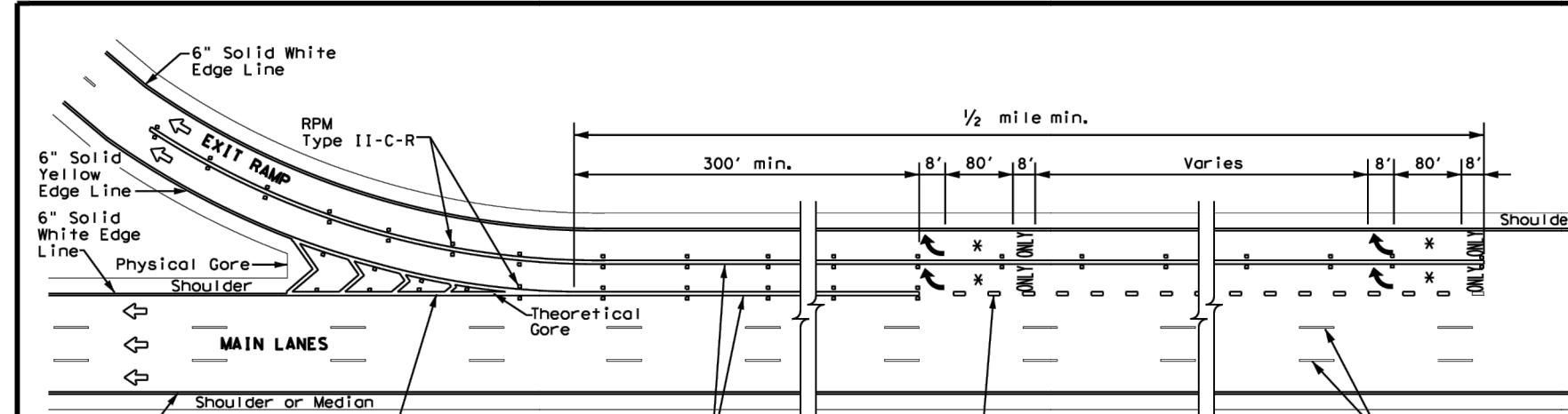
MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

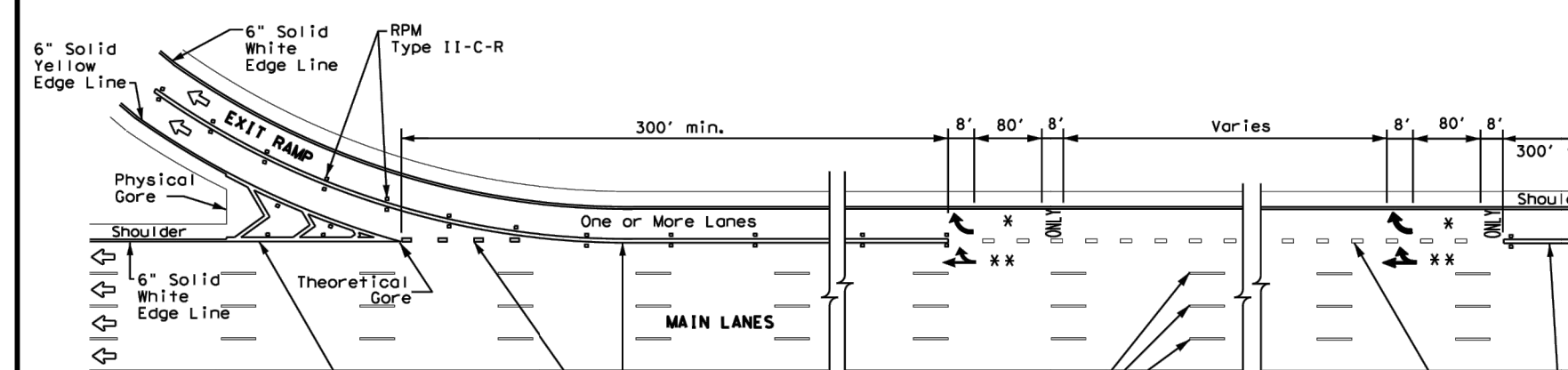
LEGEND	
➡	Traffic flow
◻	Pavement marking arrows (white)
◻	Reflectorized Raised Markers (RPM) Type II-C-R
✕	Arrow markings are optional, however "ONLY" is required if arrow is used

- GENERAL NOTES**
1. Pavement markings shall be white except as otherwise noted.
 2. Length of 12" white line may vary depending on location.
 3. Wide (12") dotted lane line (see FPM(2) Detail B) is used to separate a through lane that continues beyond the interchange from an adjacent mandatory exit lane.
 4. Edge lines are not required in curb and gutter sections of frontage roads.
 5. See FPM(1) for traffic lane line pavement marking details.

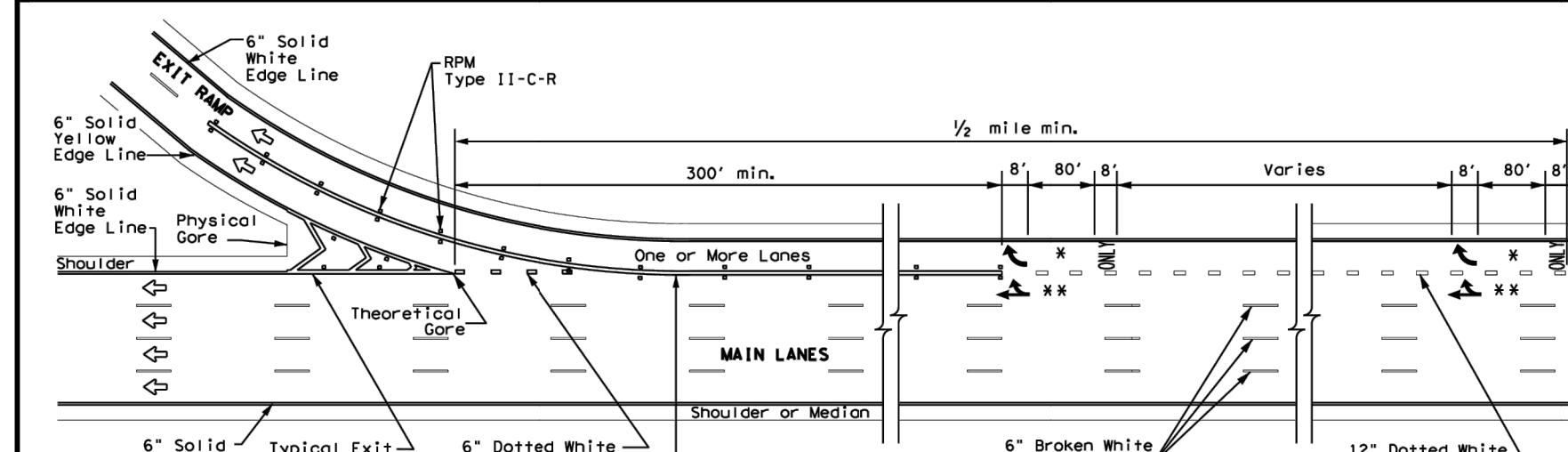
TYPICAL STANDARD FREEWAY PAVEMENT MARKINGS SINGLE LANE DROP (EXIT ONLY) AND LANE REDUCTION DETAILS FPM(3) - 22	
FILE: fpm(3) - 22.dgn	DATE: 10/01/2022
DESIGNED BY: [Name]	CHECKED BY: [Name]
PROJECT: [Project Name]	COUNTY: [County]
SHEET NO. [Number]	SHEET TOTAL [Total]



MULTIPLE LANE EXIT ONLY



SINGLE LANE ENTRANCE WITH MULTIPLE LANE EXIT - EXIT ONLY WITH OPTION LANE



MULTIPLE LANE EXIT - EXIT ONLY WITH OPTION LANE

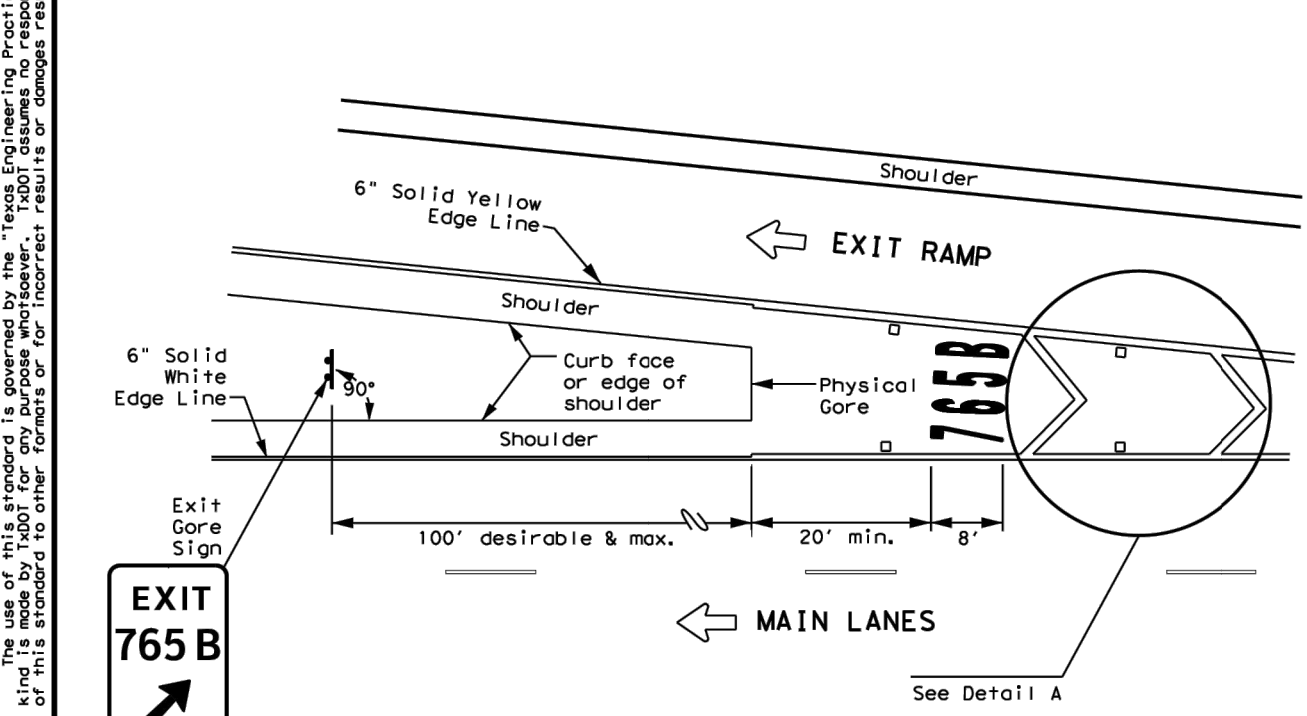
LEGEND	
➡	Traffic flow
◻	Reflectorized Raised Markers (RPM) Type II-C-R
✕	Pavement marking arrow (white)
✕	Arrow markings are optional, however "ONLY" is required if arrow is used
✕✕	Arrow markings are optional

- GENERAL NOTES**
1. Pavement markings shall be white except as otherwise noted.
 2. Length of 12" white line may vary depending on location.
 3. Wide (12") dotted lane line (see FPM(2) Detail B) is used to separate a through lane that continues beyond the interchange from an adjacent mandatory exit lane.
 4. Edge lines are not required in curb and gutter sections of frontage roads.
 5. See FPM(1) for traffic lane line pavement marking details.

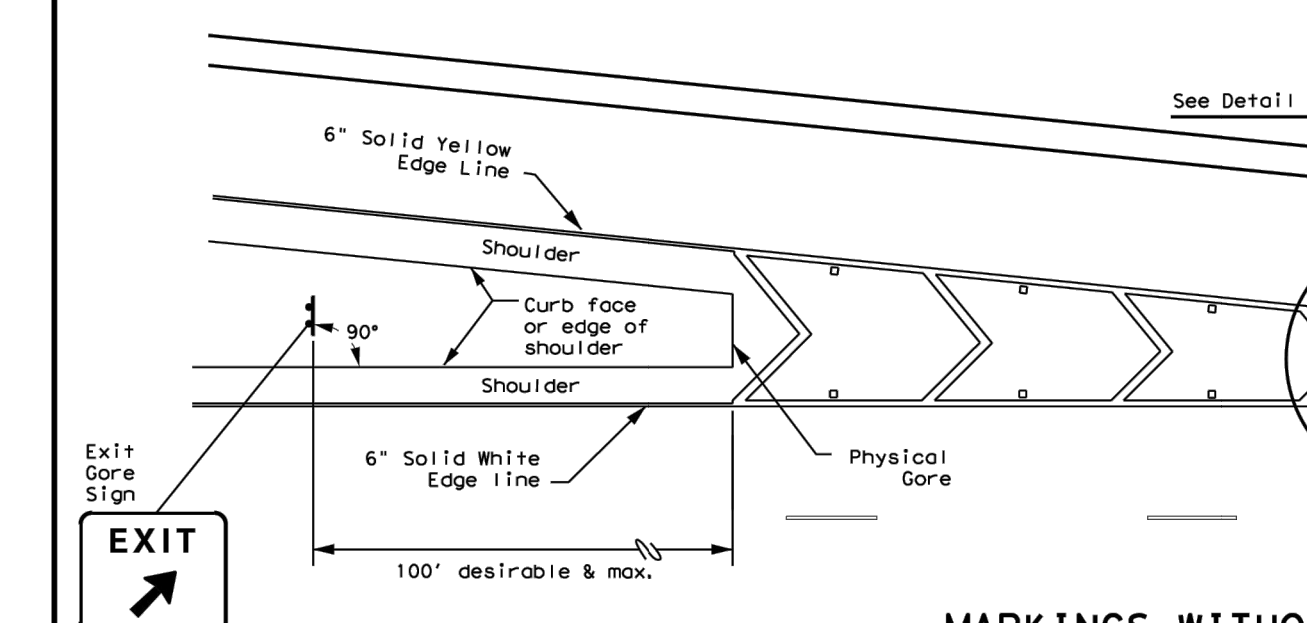
NOTE
This design is used when an entrance ramp is followed by a dual lane exit ramp within 2400' downstream theoretical gore to theoretical gore.

TYPICAL STANDARD FREEWAY PAVEMENT MARKINGS MULTIPLE LANE DROP (EXIT) DETAILS FPM(4) - 22	
FILE: fpm(4) - 22.dgn	DATE: 10/01/2022
DESIGNED BY: [Name]	CHECKED BY: [Name]
PROJECT: [Project Name]	COUNTY: [County]
SHEET NO. [Number]	SHEET TOTAL [Total]

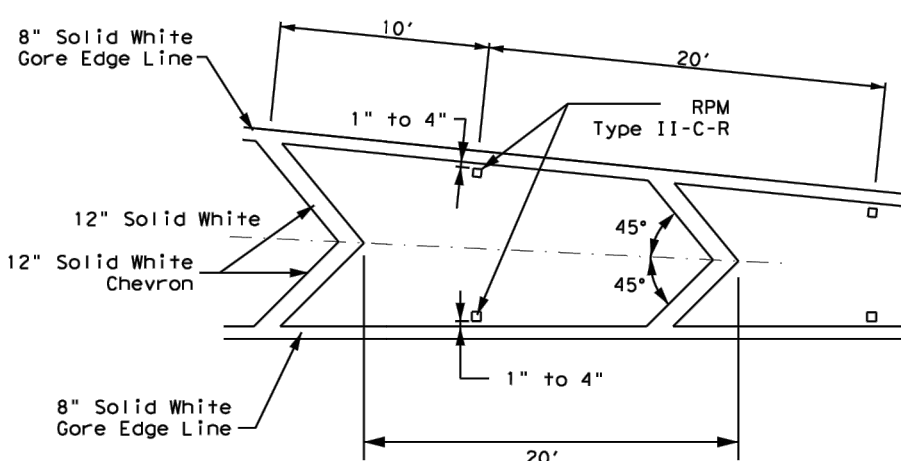
- EXIT NUMBER PAVEMENT MARKING NOTES**
1. Minimum 8 foot white exit number pavement markings should be used, unless otherwise noted.
 2. Spacing between letters and numbers should be approximately 4 inches.
 3. Pavement markings are to be located as specified elsewhere in the plans.
 4. Numbers and letters details can be found in the Standard Highway Design for Texas (SHSD) Section 12 at <http://www.txdot.gov>.



MARKINGS WITH EXIT NUMBER



MARKINGS WITHOUT EXIT NUMBER



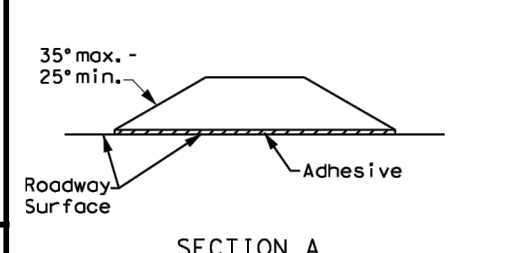
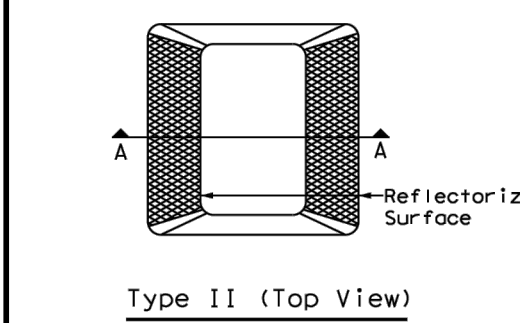
DETAIL A

- NOTES**
1. Raised pavement markers shall be centered between each chevron or neutral area line.
 2. For more information, see Reflectorized Raised Pavement Marker Detail.

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

LEGEND	
➡	Traffic flow
◻	Reflectorized Raised Markers (RPM) Type II-C-R



REFLECTORIZED RAISED PAVEMENT MARKER (RPM)

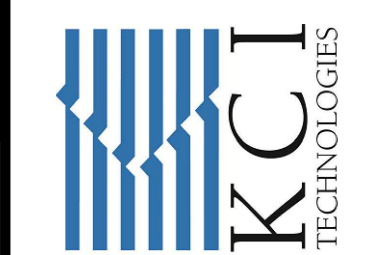
EXIT GORE PAVEMENT MARKINGS FPM(5) - 22	
FILE: fpm(5) - 22.dgn	DATE: 10/01/2022
DESIGNED BY: [Name]	CHECKED BY: [Name]
PROJECT: [Project Name]	COUNTY: [County]
SHEET NO. [Number]	SHEET TOTAL [Total]

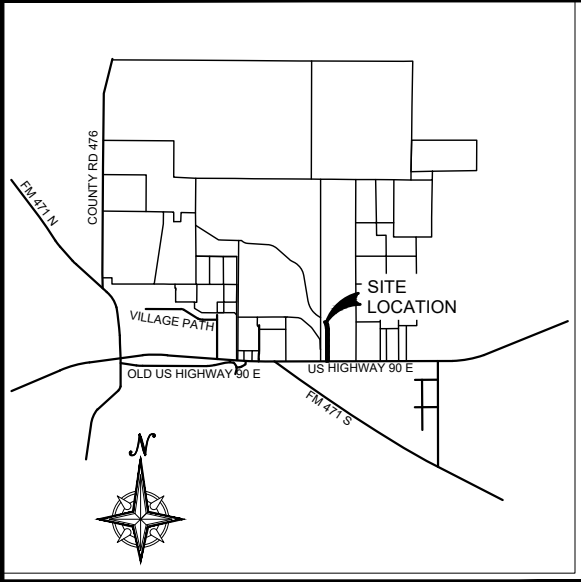
FLAT CREEK SUBDIVISION COMMERCIAL COLLECTOR SIGN DETAILS

DRAFTING: G.P.A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.P.
SUBMITTAL PHASE:	
DATE: 03/2024	
KCI JOB #:	762308220
SHEET #:	

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NOT FOR CONSTRUCTION

KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65





LOCATION MAP

SEDIMENTATION & EROSION CONTROL PLANS for FLAT CREEK COMMERCIAL COLLECTOR

GENERAL NOTES

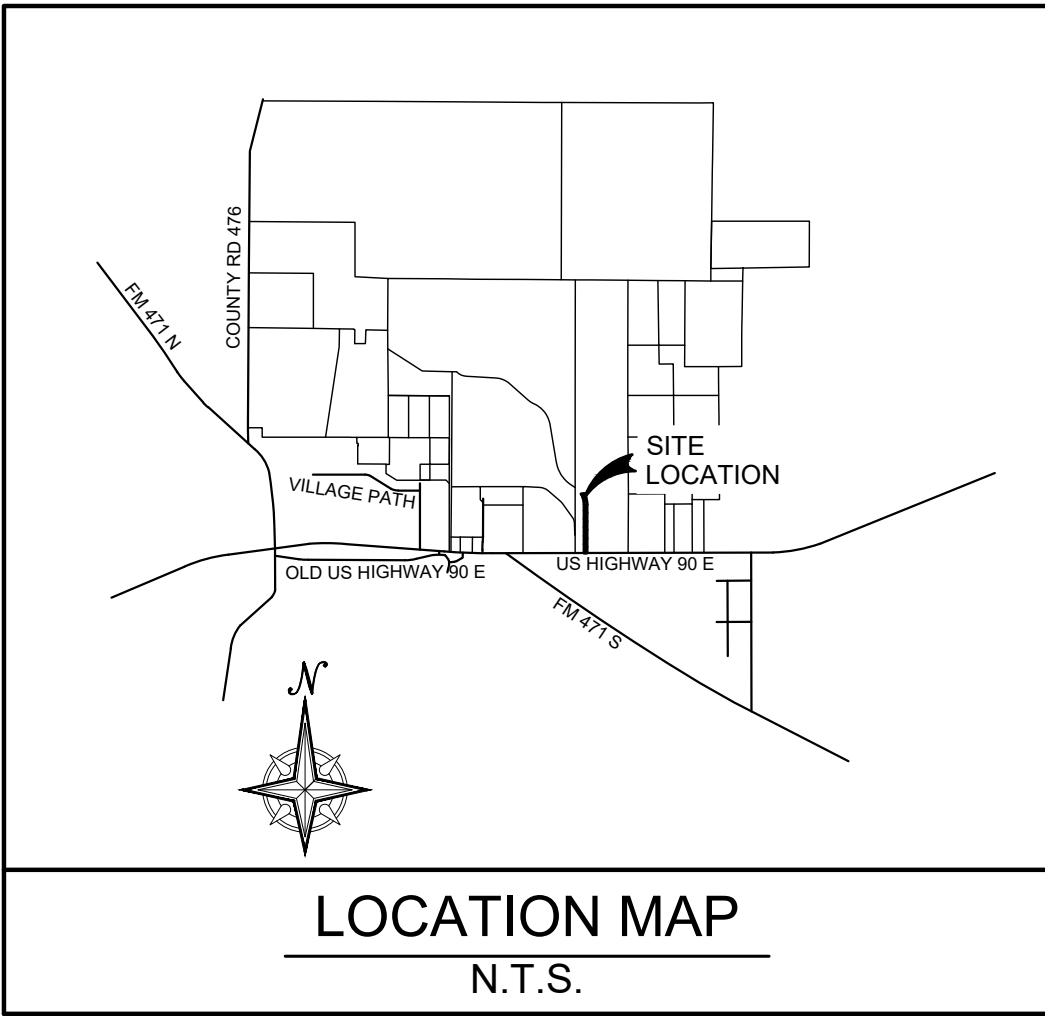
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CASTROVILLE DESIGN AND CONSTRUCTION MANUAL AND THE UNIFIED DEVELOPMENT CODE, HERE AFTER REFERRED TO THE UDC.
2. APPROVAL OF THESE CONSTRUCTION PLANS BY THE CITY OF **CASTROVILLE** DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY THE CITY ENGINEER.
3. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY OF CASTROVILLE MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
4. DESIGN PROCEDURES ARE IN COMPLETE COMPLIANCE WITH THE CITY OF CASTROVILLE DESIGN AND CONSTRUCTION MANUAL. IT IS THE RESPONSIBILITY OF THE ENGINEER TO REQUEST A WAIVER FROM ANY ASPECT OF THESE PLANS THAT DO NOT COMPLY WITH THE UDC.
5. PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY OF CASTROVILLE, CONSULTING ENGINEER, CONTRACTOR, AND ANY OTHER AFFECTED PARTIES. NOTIFY THE CITY OF CASTROVILLE AT LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
6. THE CONTRACTOR SHALL GIVE THE CITY A MINIMUM OF 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION.
7. BARRICADES, BUILT TO CITY OF CASTROVILLE SPECIFICATIONS, SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB SAFETY.
8. ANY EXISTING PAVEMENT, CURBS, AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE BEFORE ACCEPTANCE OF THE SUBDIVISION.
9. THE LOCATION OF ANY WATER AND/OR WASTEWATER LINES SHOWN ON THE PLANS MUST BE VERIFIED BY THE PUBLIC WORKS DEPARTMENT.
10. USE ONE CALL UTILITY SYSTEM: DIAL 1-800-344-8377, 48 HOURS BEFORE YOU DIG.
11. ALL STORM SEWER PIPES TO BE CLASS III RCP UNLESS NOTED OTHERWISE.
12. THE SUBGRADE MATERIAL WAS TEST BY INTEGRATED TESTING AND ENGINEERING COMPANY OF SAN ANTONIO, L.P. IN JULY 2013 AND THE STREET SECTION DESIGNED ACCORDING TO CITY OF CASTROVILLE DESIGN AND CONSTRUCTION MANUAL.
13. RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL. WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY THE CITY ENGINEER.
14. THESE PLANS ARE NOT INTENDED FOR THE PURPOSE OF GATE DESIGN OR BUILD. SEPARATE PERMIT AND PLAN REVIEW REQUIRED. PLAN REVIEW REQUIRED FOR DETAILED GATE DESIGN AND INSTALLATION.

CONSTRUCTION SEQUENCING

- 1.) CALL THE COMMUNITY DEVELOPMENT SERVICES DEPARTMENT 48 HOURS PRIOR TO BEGINNING ANY WORK AND SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY AND ALL AFFECTED UTILITY PROVIDERS, THE GENERAL CONTRACTOR, THE DEVELOPER AND THE DEVELOPER'S ENGINEER.
- 2.) OBTAIN A SITE DEVELOPMENT PERMIT FROM THE COMMUNITY DEVELOPMENT SERVICES DEPARTMENT AND REQUIREMENTS ARE UP TO DATE.
- 3.) PROVIDE THE COMMUNITY DEVELOPMENT SERVICES DEPARTMENT WITH EVIDENCE ALL TCEQ LICENSES AND REQUIREMENTS ARE UP TO DATE.
- 4.) INSTALL TEMPORARY EROSION CONTROLS AND TREE PROTECTION FENCING PRIOR TO ANY CLEARING AND GRUBBING. NOTIFY THE CITY WHEN INSTALLED.
- 5.) ROUGH-CUT ALL REQUIRED OR NECESSARY PONDS. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF ANY EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A LOW-LEVEL OUTLET AND AN EMERGENCY OVERFLOW MEETING THE REQUIREMENTS OF THE UDC. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL FINAL RESTORATION IS ACHIEVED.
- 6.) DELIVER APPROVED ROUGH CUT SHEETS TO THE CITY ENGINEER PRIOR TO CLEARING AND GRUBBING.
- 7.) ROUGH GRADE STREETS. NO DEVELOPMENT OF EMBANKMENT WILL BE PERMITTED AT THIS TIME.
- 8.) INSTALL ALL UTILITIES TO BE LOCATED UNDER THE PROPOSED PAVEMENT OR WITHIN THE ROAD RIGHT-OF-WAY.
- 9.) DELIVER STORM SEWER CUT SHEETS TO THE CITY ENGINEER.
- 10.) BEGIN INSTALLATION OF STORM SEWER LINES. UPON COMPLETION, RESTORE AS MUCH DISTURBED AREA AS POSSIBLE, PARTICULARLY CHANNELS AND LARGE OPEN AREAS.
- 11.) DELIVER FINAL FINAL GRADE CUT SHEETS TO THE CITY ENGINEER.
- 12.) RE-GRADE STREETS TO SUB-GRADE.
- 13.) ENSURE THAT UNDERGROUND UTILITY CROSSINGS ARE COMPLETED. LAY 1ST COURSE BASE MATERIAL ON STREETS.
- 14.) INSTALL CURB AND GUTTER.
- 15.) LAY FINAL BASE COURSE ON ALL STREETS.
- 16.) LAY ASPHALT.
- 17.) COMPLETE FINAL GRADING AND RESTORATION OF DETENTION, SEDIMENTATION/FILTRATION PONDS.
- 18.) COMPLETE PERMANENT EROSION CONTROL AND RESTORATION OF SITE VEGETATION.
- 19.) REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROLS.
- 20.) COMPLETE ANY NECESSARY FINAL DRESS UP OF AREAS DISTURBED.

COMMENCE OF CONSTRUCTION

1. INITIAL PROJECT CLEARING WILL NEED TO BE LIMITED TO THE LOCATIONS OF THE PROPOSED TEMPORARY SWP3 BEST MANAGEMENT PRACTICES (BMP) DESIGNED BY THE ENGINEER. THESE BMPs MAY INCLUDE, BUT ARE NOT LIMITED TO: STABILIZED CONSTRUCTION EXIT(S), SILT FENCE, DISCHARGE POINT ROCK BERMS/CHECK DAMS, TRASH CONTAINMENT, TEMPORARY SEDIMENT BASINS (IF APPLICABLE), DEMARCATION OF PROTECTED SITE FEATURES FOR EXAMPLE: WETLANDS, ENVIRONMENTAL BUFFERS, CAVES OR SOLUTION FEATURES, AND HABITATS.
2. PRIOR TO COMMENCEMENT OF ADDITIONAL CLEARING OR EARTH DISTURBING ACTIVITIES, THE PROPOSED BMPs WILL NEED TO BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY A **KF FLAT CREEK, L.P.** REPRESENTATIVE. CONTRACTOR MUST PROVIDE AT MINIMUM, 48-HOURS OF NOTICE TO **KF FLAT CREEK, L.P.** WHEN THE BMPs ARE SCHEDULED TO BE INSTALLED AND COMPLETED. THE **KF FLAT CREEK, L.P.** REPRESENTATIVE WILL COORDINATE THE LAND DEVELOPMENT MANAGER TO RELEASE THE PROJECT FOR CONSTRUCTION.
3. WHEN A TEMPORARY SEDIMENT BASIN IS REQUIRED FOR THE PROJECT, LIMITED CLEARING OF THE PROPOSED BASIN LOCATION AND ANY MATERIAL BORROW AREAS TO CONSTRUCT THE TEMPORARY SEDIMENT BASIN MAY OCCUR DURING THE INITIAL BMP INSTALLATION PERIOD. THE TEMPORARY SEDIMENT BASIN MUST BE COMPLETELY CONSTRUCTED TO ENGINEER'S DESIGN. THIS MAY INCLUDE THE FOLLOWING: CONSTRUCTION OF THE DEWATERING STRUCTURE (RISER PIPE OR FAIR CLOTH SKIMMER AND PUMP), CONSTRUCTION OF THE EMERGENCY OVERFLOW STRUCTURE, INSTALLATION OF A SEDIMENT DEPTH MARKER. NOTE-ONCE ACCESSIBLE TO APPROPRIATE EQUIPMENT, THE ONLY THE TEMPORARY SEDIMENT BASIN BERMS/SLOPES SHALL BE TEMPORARILY STABILIZED.
4. GENERAL CONTRACTOR IS TO MAINTAIN ALL POLLUTION CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION THROUGHOUT THE CONTRACT PERIOD TO THE EXTENT ACHIEVABLE. TO ENSURE BMPs ARE OPERATING EFFECTIVELY, AND IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT, LENNAR WILL PROVIDE REGULAR AND IF APPLICABLE, POST-RAIN EVENT BMP INSPECTIONS AND INSPECTION REPORTS. THE GENERAL CONTRACTOR WILL BE PROVIDED AN ELECTRONIC COPY OF THE BMP INSPECTION REPORT VIA EMAIL. WEEKLY REGARDING ISSUES WITH BMPs AT THE PROJECT THROUGH THE **KF FLAT CREEK, L.P.** SWP3 INSPECTION PROCESS. ITEMS NOTED IN THE BMP INSPECTION REPORT MUST BE ADDRESSED BY THE GENERAL CONTRACTOR AS SOON AS POSSIBLE, AND WITHIN 7 CALENDAR DAYS. GENERAL CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE ASSIGNED **KF FLAT CREEK, L.P.** LAND DEVELOPMENT PROJECT MANAGER TO INCLUDE: A. ACTIONS TAKEN IN RESPONSE TO THE BMP INSPECTION REPORT AND DATE(S) THE ACTIONS WERE COMPLETED OR, B. STATEMENT OF EXTENUATING CIRCUMSTANCE AS TO WHY AN ITEM COULD NOT BE COMPLETED WITHIN THE 7-DAY TIMEFRAME AND PROPOSED SCHEDULED DATE OF COMPLETION.
5. CONTRACTOR TO MAINTAIN SPILL RESPONSE SUPPLIES/KIT AT THE PROJECT LOCATION WHILE ACTIVELY WORKING ONSITE.
6. WHEN DEWATERING ACTIVITIES DISCHARGE INTO ONSITE CREEKS OR RIVERS, OR DISCHARGE OUTSIDE THE LIMITS OF CONSTRUCTION, DAILY DEWATERING INSPECTIONS MUST BE DOCUMENTED IN ACCORDANCE WITH THE 03.05.2023 TCEQ CONSTRUCTION GENERAL PERMIT. DAILY REPORT MUST BE SENT TO **KF FLAT CREEK, L.P.** WITHIN 24-HOURS.



LOCATION MAP
N.T.S.

Sheet List Table

Sheet Number	Sheet Title
600	SEDIMENTATION & EROSION CONTROL COVER
601	SEDIMENT & EROSION CONTROL PLAN
602	SEDIMENT & EROSION CONTROL NOTES & DETAILS
603	SEDIMENT & EROSION CONTROL NOTES & DETAILS

OWNER/DEVELOPER:

KF FLAT CREEK, L.P.
2722 W. BITTERS, RD. SUITE 106
SAN ANTONIO, TEXAS 78259
(210) 882-6800



PREPARED BY:

KCI TECHNOLOGIES, INC.
2806 W. BITTERS, RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

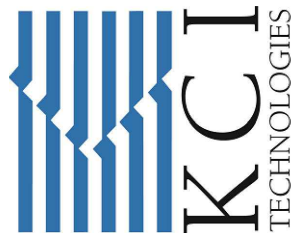
FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
SEDIMENTATION & EROSION CONTROL COVER

DRAFTING: G.P.A.M.	CHECK: L.E.
DESIGN: L.E.	CHECK: C.P.
SUBMITTAL PHASE:	
DATE:	03/2024
KCI JOB #:	762308220
SHEET:	

600

FOR BIDDING
PURPOSES ONLY
NOT FOR CONSTRUCTION

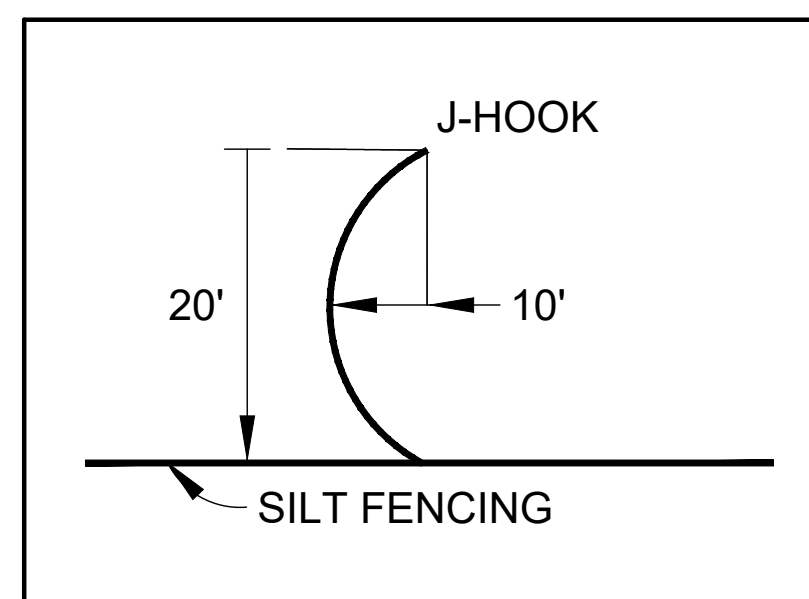
KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65





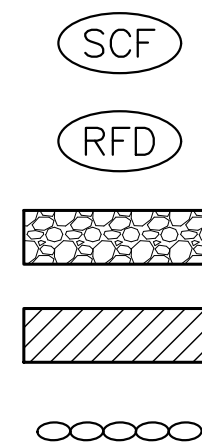
TRENCH EXCAVATION SAFETY PROTECTION

Contractor and/or contractor's independently retained employee or structural design/geotechnical safety/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation site(s) within the project work area in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures. The Contractor's implementation of the systems, programs and/or procedures shall provide for adequate trench excavation, safety protection that complies with as a minimum, OSHA standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee or structural consultant shall implement a trench safety program in accordance with OSHA standards governing the presence and activities of individuals working in and around trench excavation,



J-HOOK DETAIL

SCALE: NTS



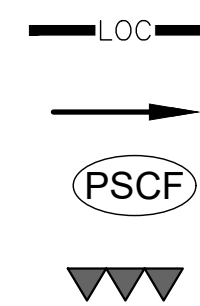
TEMPORARY SEDIMENT
CONTROL FENCE

TEMPORARY ROCK
FILTER DAM

TYPE 1
CONSTRUCTION EXIT

CONCRETE
WASHOUT PIT

GRAVEL FILTER BAGS

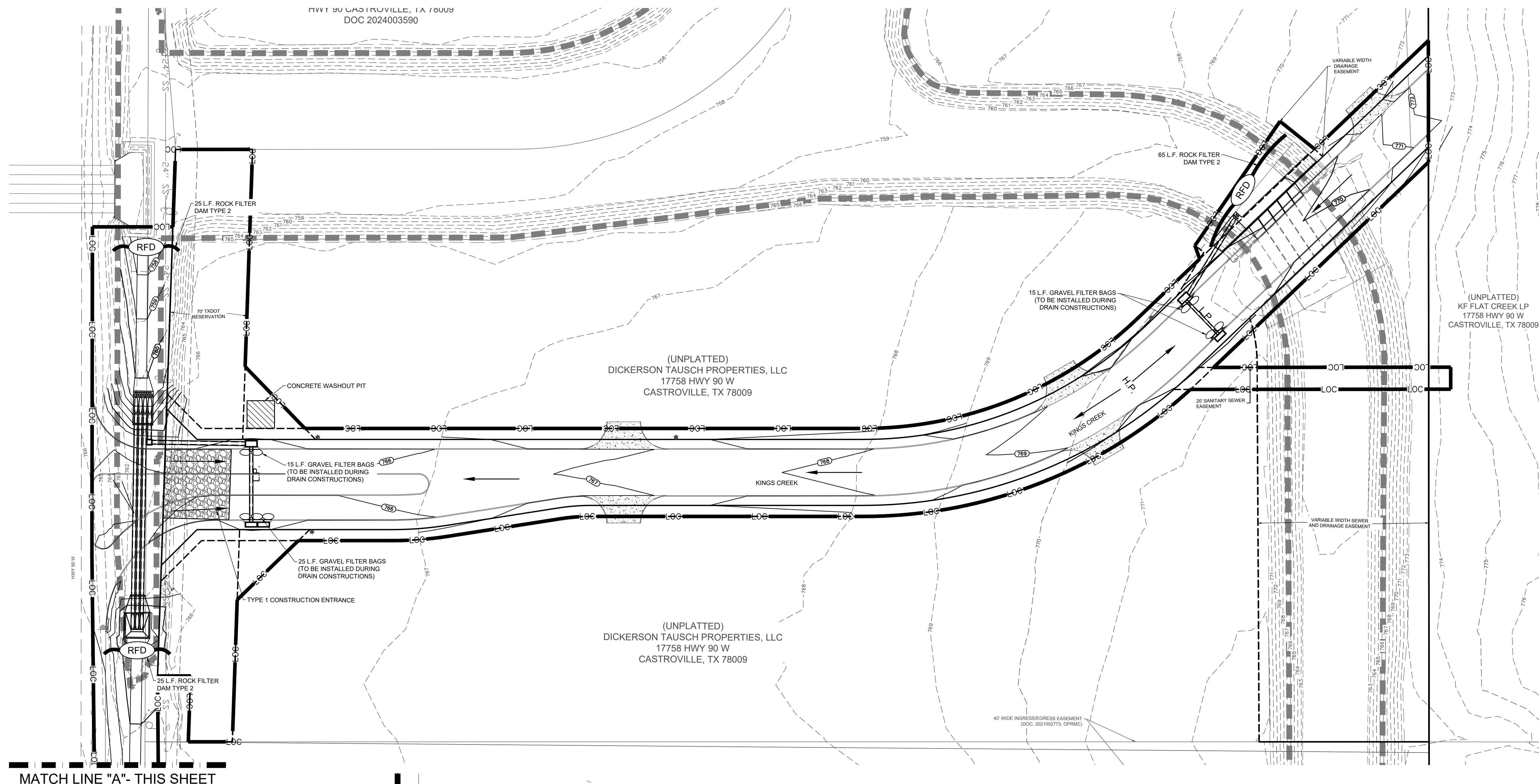
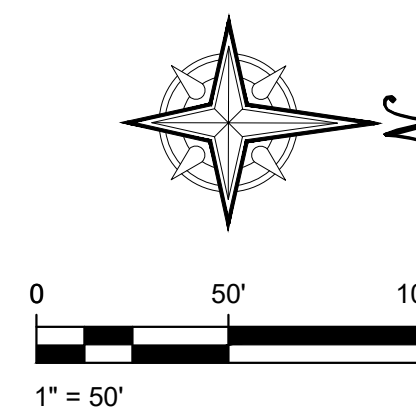


LIMITS OF CONSTRUCTION

GRADING SLOPE ARROW

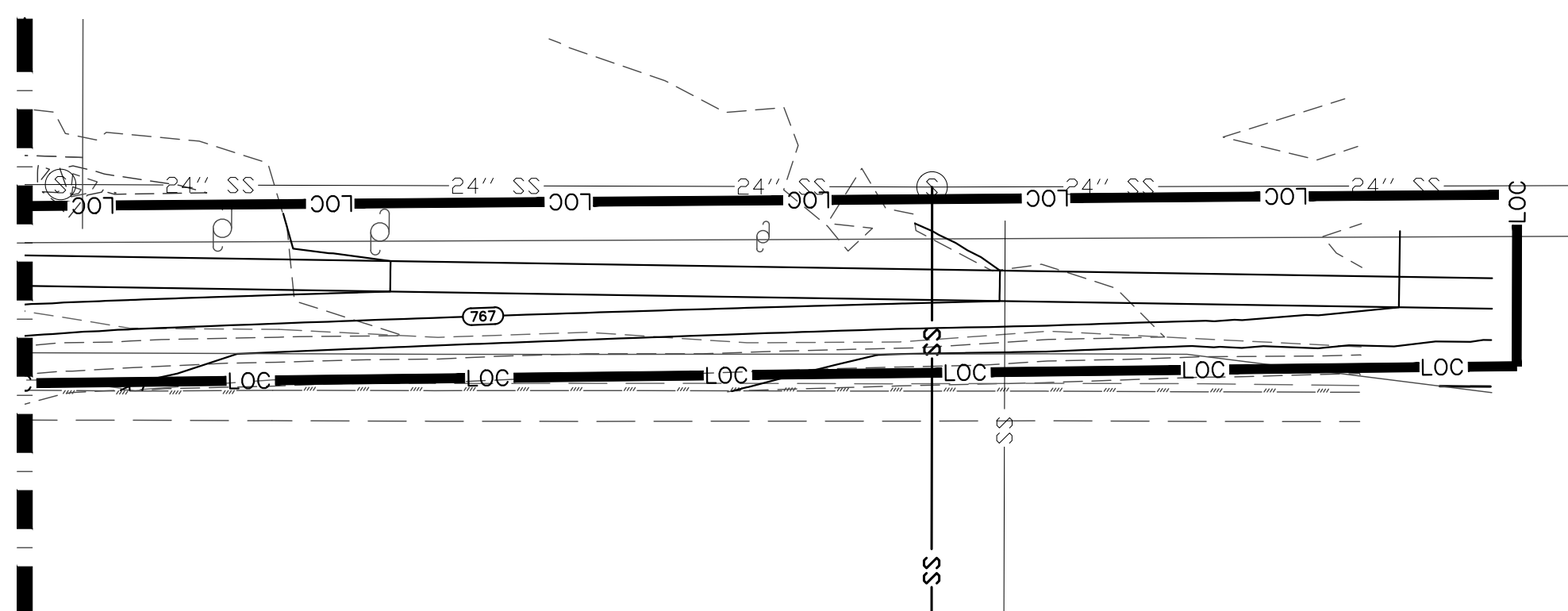
POST CONSTRUCTION SEDIMENT
CONTROL FENCE (PHASE 2)

EARTHEN BERM W/
POLYLINER AND SPILLWAY



MATCH LINE "A"- THIS SHEET

MATCH LINE "A"- THIS SHEET

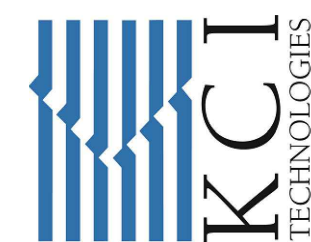


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KCI TECHNOLOGIES, INC.

2806 W. BITTERS RD, SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-

FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65



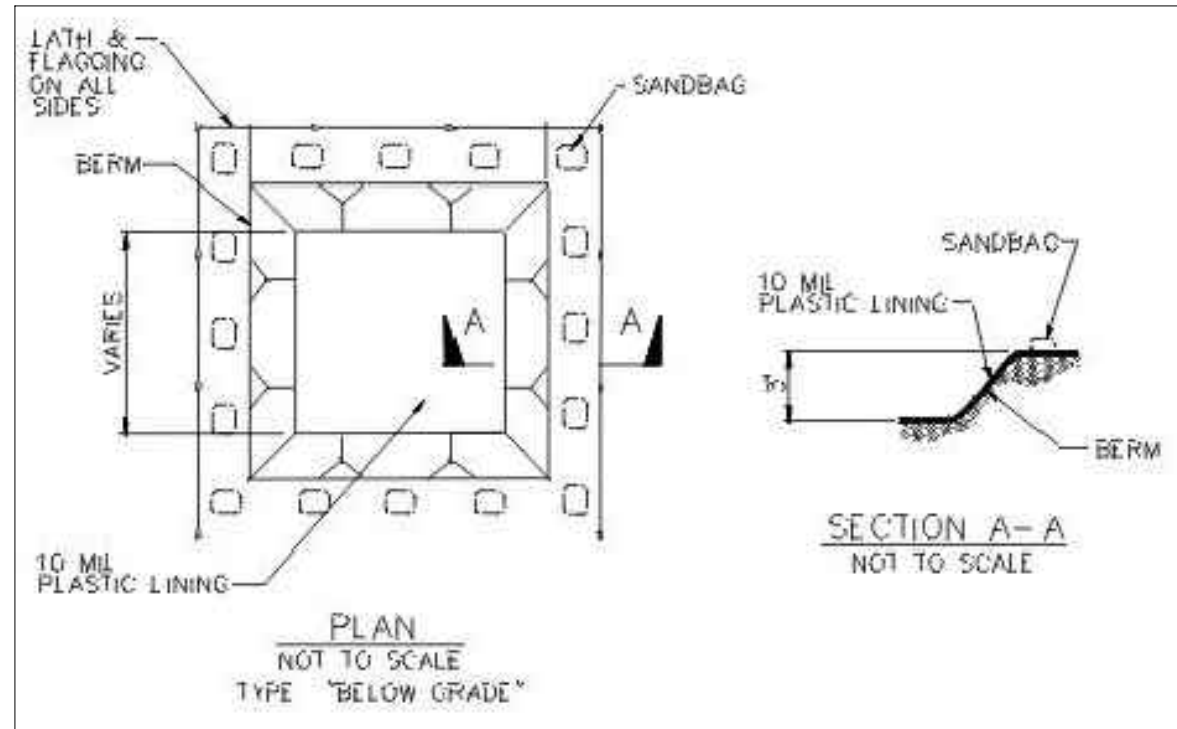
**FLAT CREEK SUBDIVISION
COMMERCIAL COLLECTOR
SEDIMENT & EROSION CONTROL PLAN**

DRAFTING: GP/AM	CHECK: L.E.
DESIGN: L.E.	CHECK: C.P.
SUBMITTAL PHASE:	
DATE:	03/20/2012
KCI JOB #:	76230822
SHEET:	

601

Date	Time	User	Project	File	Operation
Nov 18, 2024	7:56am	lance	762308220	762308220	OVERALL

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CONCRETE TRUCK WASHOUT PIT

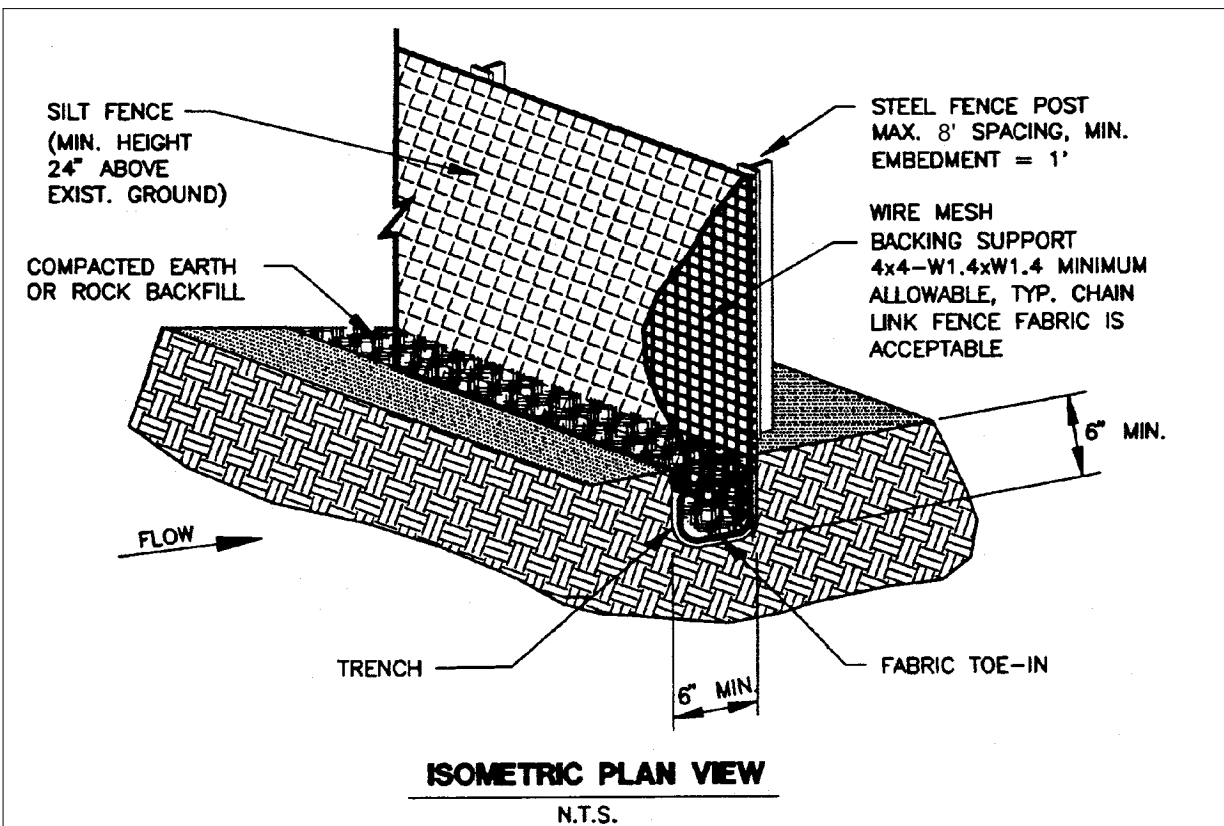


Figure 1-26 Schematic of a Silt Fence Installation (NCTCOG, 1993b)

GENERAL NOTES:

- Silt fence material should be polypropylene, polyethylene or polyamide woven or nonwoven fabric. The fabric width should be 36 inches, with a minimum unit weight of 4.5 oz/yd, mullen burst strength exceeding 190 lb/in², ultraviolet stability exceeding 70%, and minimum apparent opening size of U.S. Sieve No. 30.
- Fence posts should be made of hot rolled steel, at least 4 feet long with Tee or Ybar cross section, surface painted or galvanized, minimum nominal weight 1.25 lb/ft², and Brindell hardness exceeding 140. Woven wire backing to support the fabric should be galvanized 2"x 4" welded wire, 12 gauge minimum.
- Installation:
 - Steel posts, which support the silt fence, should be installed on a slight angle toward the anticipated runoff source. Post must be embedded a minimum of 1-foot deep and spaced not more than 8 feet on center. Where water concentrates, the maximum spacing should be 6 feet.
 - Lay out fencing down-slope of disturbed area, following the contour as closely as possible. The fence should be sited so that the maximum drainage area is 1/4 acre/100 feet of fence.
 - The toe of the silt fence should be trenched in with a spade or mechanical trencher, so that the down-slope face of the trench is flat and perpendicular to the line of flow. Where fence cannot be trenched in (e.g., pavement or rock outcrop), weight fabric flap with 3 inches of pea gravel on uphill side to prevent flow from seeping under fence.
 - The trench must be a minimum of 6 inches deep and 6 inches wide to allow for the silt fence fabric to be laid in the ground and backfilled with compacted material.
 - Silt fence should be securely fastened to each steel support post or to woven wire, which is in turn attached to the steel fence post. There should be a 3-foot overlap, securely fastened where ends of fabric meet.
 - Silt fence should be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.

SILT FENCE

14.6 High Service Rock Berms

A high service rock berm should be designated in areas of important environmental significance such as in steep canyons or above permanent springs, pools, recharge features, or other environmentally sensitive areas that may require a higher level of protection. This type of sediment barrier combines the characteristics of a silt fence and a rock berm to provide a substantial level of sediment reduction and a sturdy enough barrier to withstand higher flows. The drainage area to this device should not exceed 5 acres and the slope should be less than 30%.

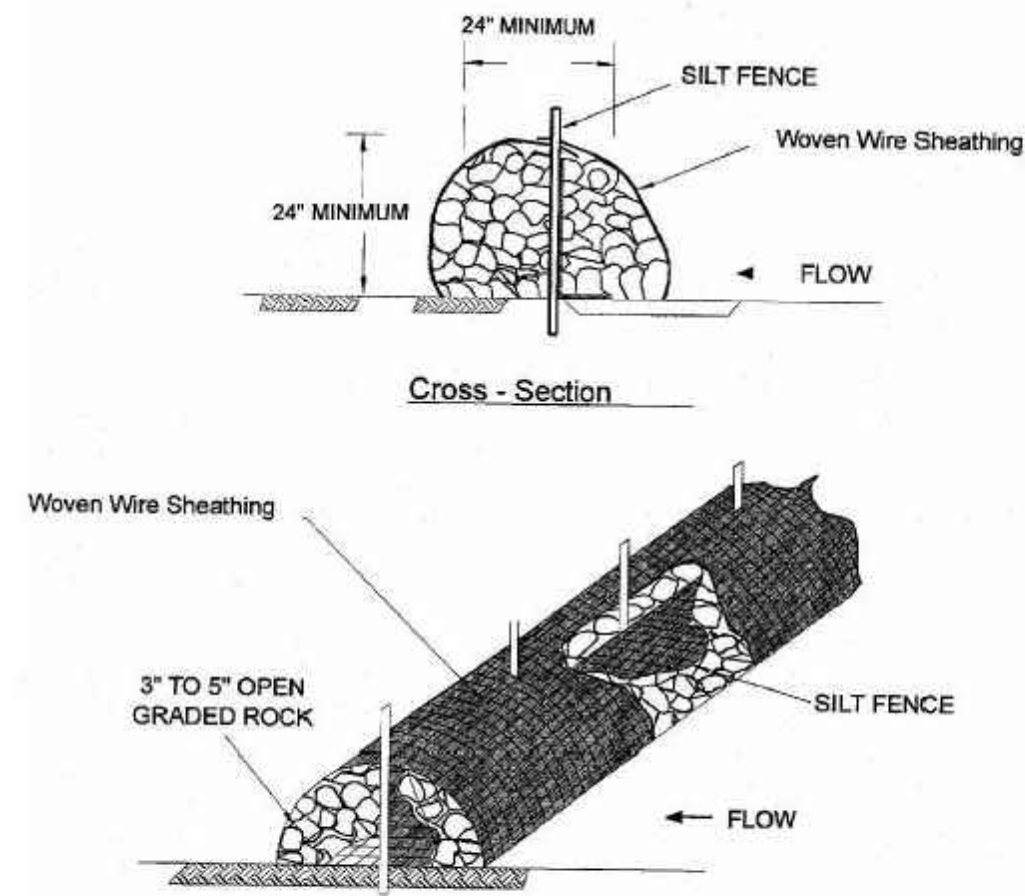


Figure 1-29 Schematic Diagram of High Service Rock Berm (LCRA, 1998)

GENERAL NOTES:

- The berm structure should be secured with a woven wire sheathing having maximum opening of 1 inch and a minimum wire diameter of 20 gauge galvanized and should be secured with shoot rings.
- Clean, open graded 3- to 5-inch diameter rock should be used, except in areas where high velocities or large volumes of flow are expected, where 5- to 8-inch diameter rocks may be used.
- Installation:
 - Lay out the woven wire sheathing perpendicular to the flow line. The sheathing should be 20 gauge woven wire mesh with 1- inch openings.
 - Install the silt fence along the center of the proposed berm placement, as with a normal silt fence described in Section 2.4.3.
 - Place the rock along the sheathing on both sides of the silt fence as shown in the diagram (Figure 1-29), to a height not less than 24 inches. Clean, open graded 3- to 5-inch diameter rock should be used, except in areas where high velocities or large volumes of flow are expected, where 5- to 8-inch diameter rock may be used.
 - Wrap the wire sheathing around the rock and secure with tie wire so that the ends of the sheathing overlap at least 2 inches, and the berm retains its shape when walked upon.
 - The high service rock berm should be removed when the site is revegetated or otherwise stabilized or it may remain in place as a permanent BMP if drainage is adequate.

HIGH SERVICE ROCK BERM

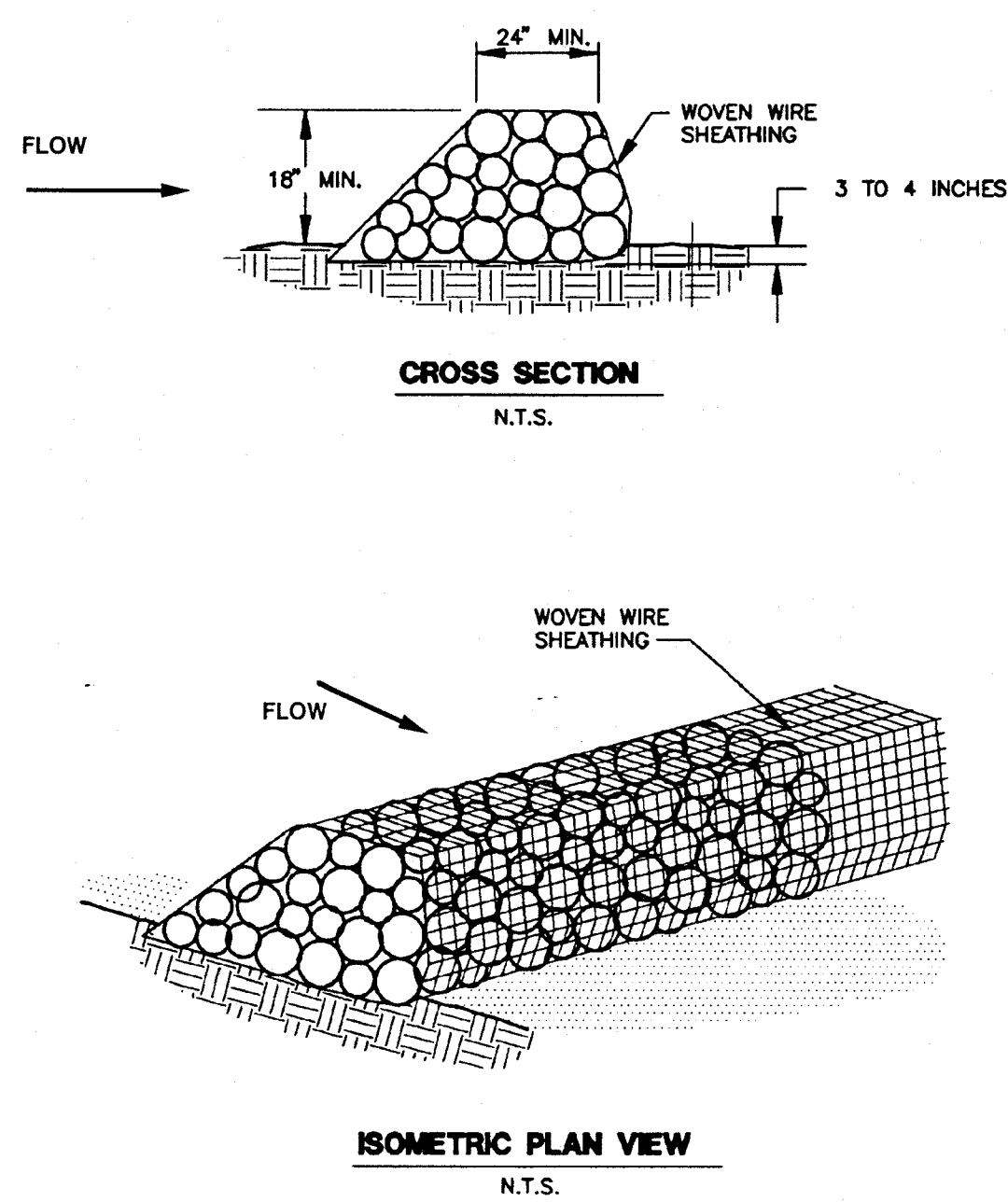


Figure 1-28 Schematic Diagram of a Rock Berm (NCTCOG, 1993)

- The berm structure should be secured with a woven wire sheathing having maximum opening of 1 inch and a minimum wire diameter of 20 gauge galvanized and should be secured with shoot rings.
- Clean, open graded 3- to 5-inch diameter rock should be used, except in areas where high velocities or large volumes of flow are expected, where 5- to 8-inch diameter rocks may be used.
- Installation:
 - Lay out the woven wire sheathing perpendicular to the flow line. The sheathing should be 20 gauge woven wire mesh with 1 inch openings.
 - Place the rock along the sheathing as shown in the diagram (Figure 1-28), to a height not less than 18".
 - Wrap the wire sheathing around the rock and secure with tie wire so that the ends of the sheathing overlap at least 2 inches, and the berm retains its shape when walked upon.
 - Berm should be built along the contour at zero percent grade or as near as possible.
 - The ends of the berm should be tied into existing upslope grade and the berm should be buried in a trench approximately 3 to 4 inches deep to prevent failure of the control.

ROCK BERM

FOR EROSION AND SEDIMENT CONTROL OVER THE EDWARDS AQUIFER CONTRIBUTING ZONE, THE RESPECTIVE BMP DETAILS HAVE BEEN SHOWN ON THIS SHEET AND SW1. THE DETAILS ARE EXCERPTS FROM THE EDWARDS AQUIFER TECHNICAL GUIDANCE MANUAL; RG-348, JULY 2005.

REFER TO THE EROSION CONTROL PLAN (SW1), FOR USE LOCATIONS / PARAMETERS OF THE DETAILS SHOWN IN THE PLAN SET.

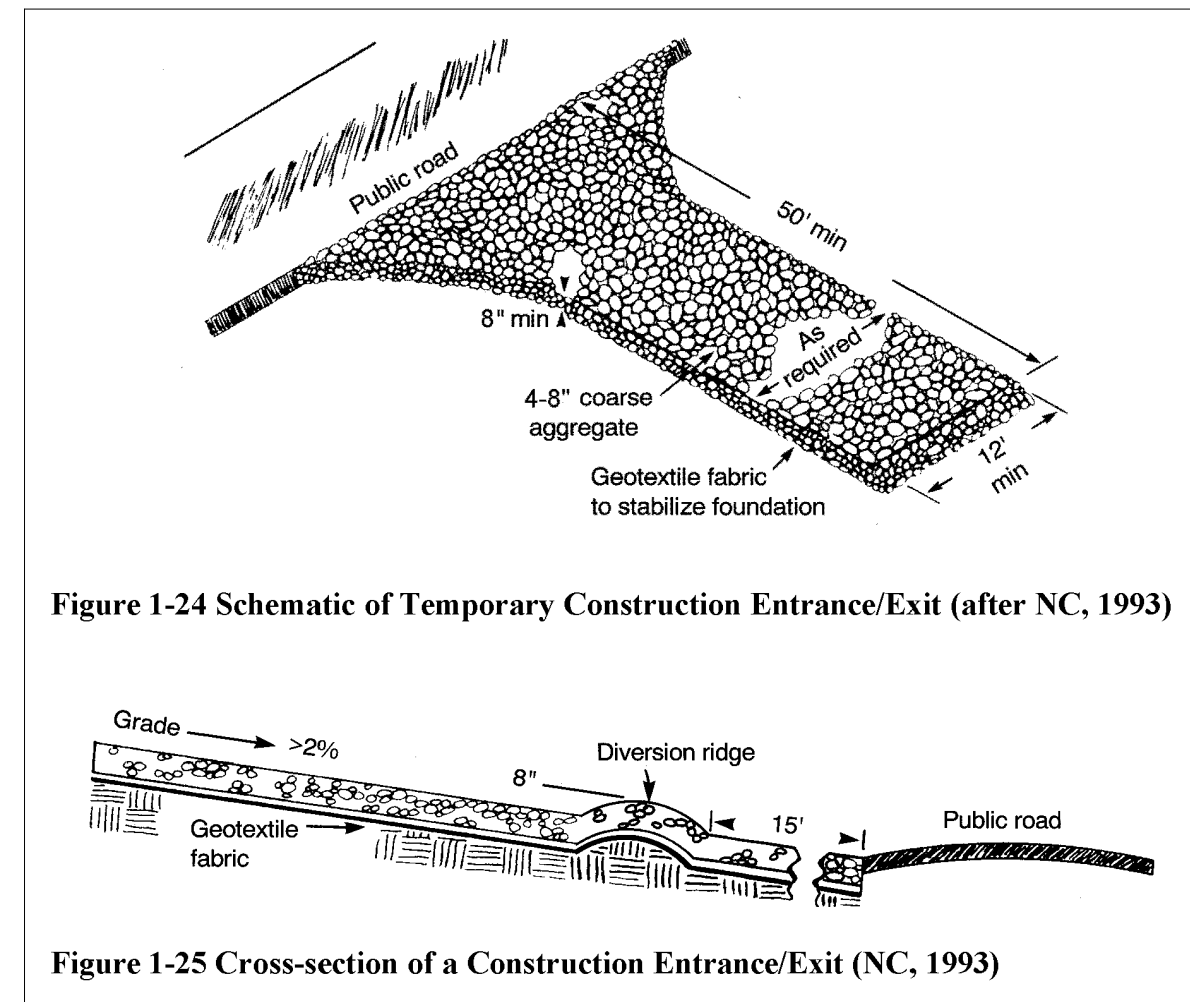
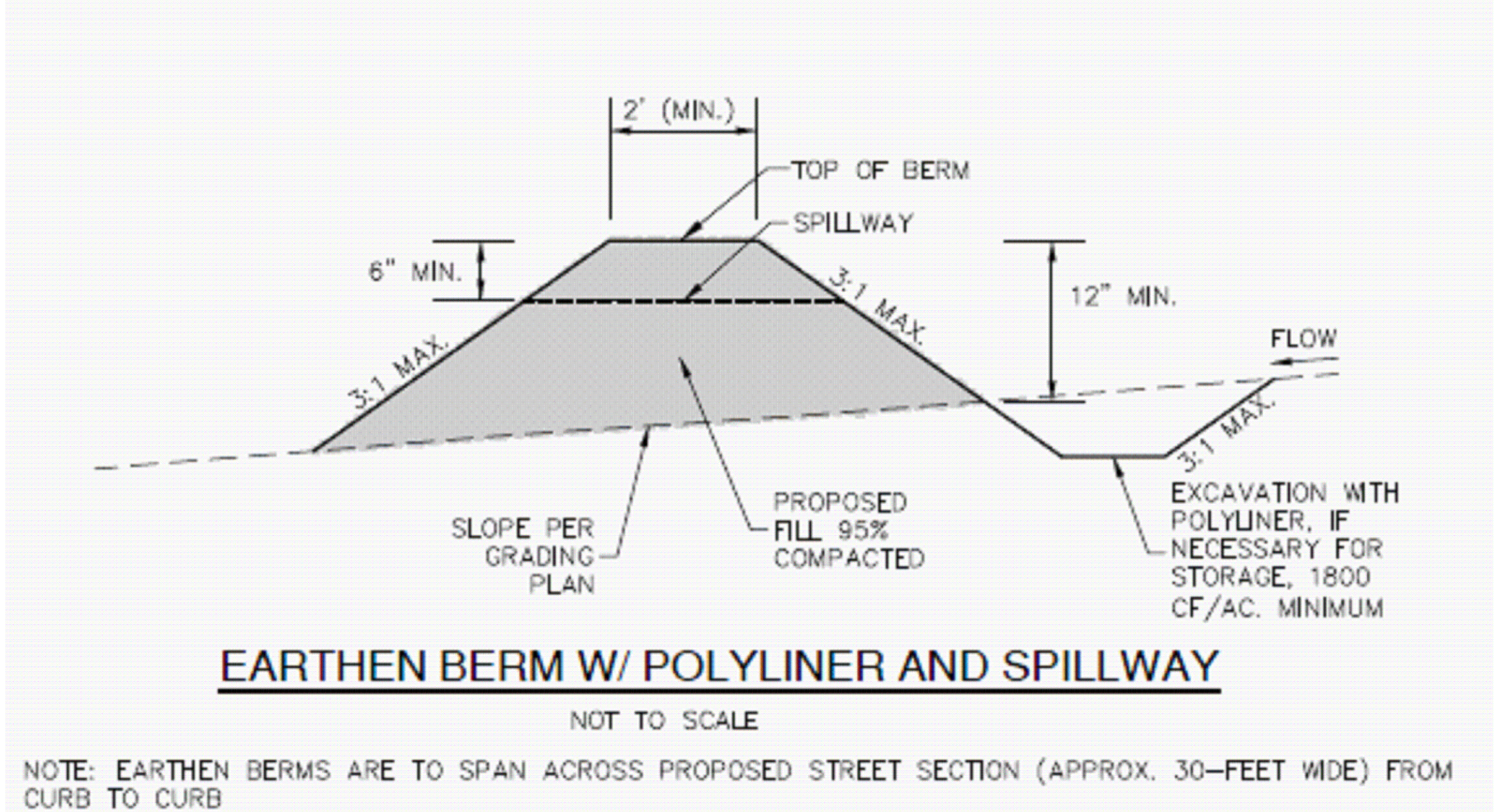


Figure 1-24 Schematic of Temporary Construction Entrance/Exit (after NC, 1993)

Figure 1-25 Cross-section of a Construction Entrance/Exit (NC, 1993)



NOTE: EARTHEN BERMS ARE TO SPAN ACROSS PROPOSED STREET SECTION (APPROX. 30-FOOT WIDE) FROM CURB TO CURB

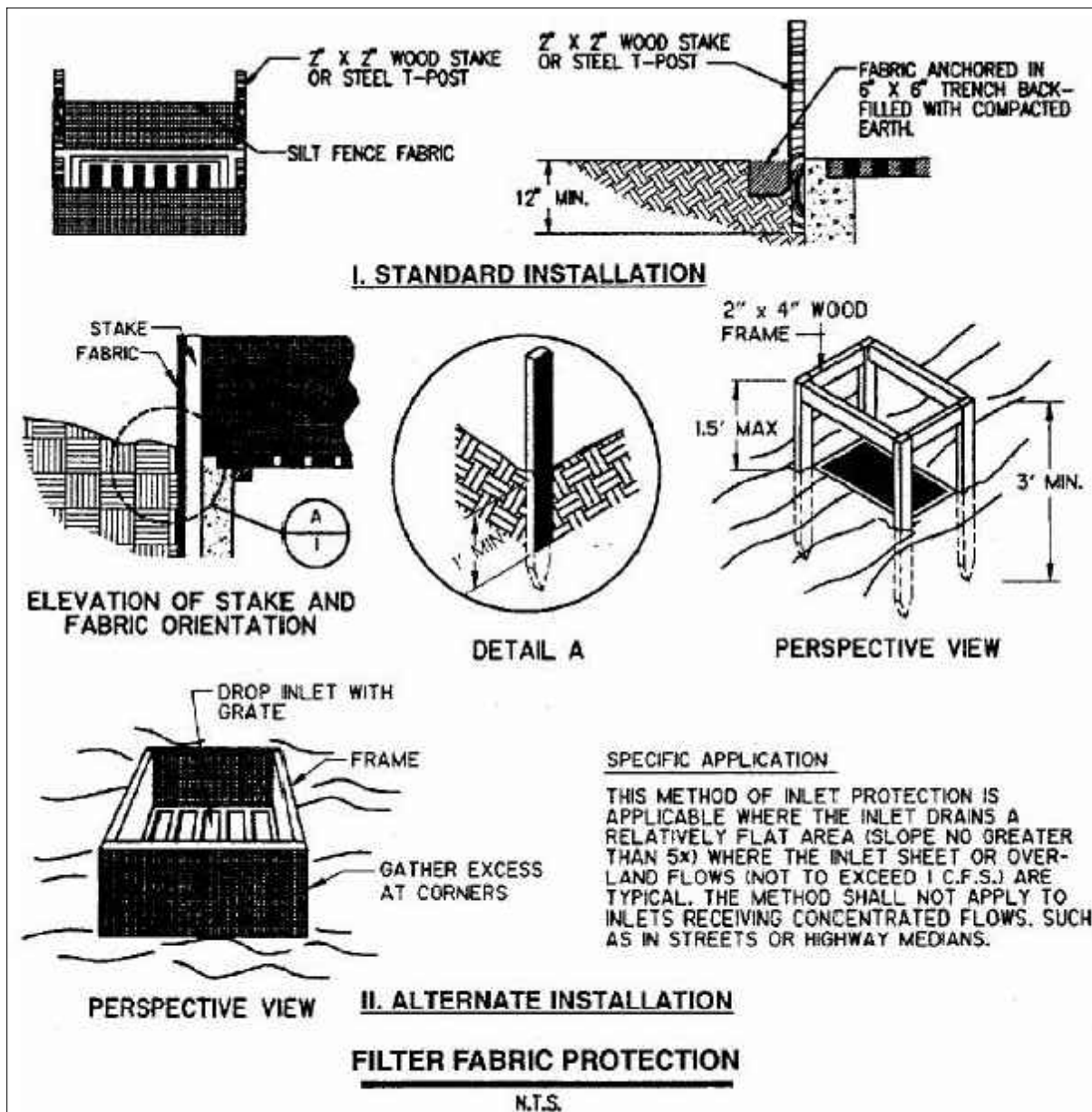


Figure 1-33 Filter Fabric Inlet Protection (NCTCOG, 1993)

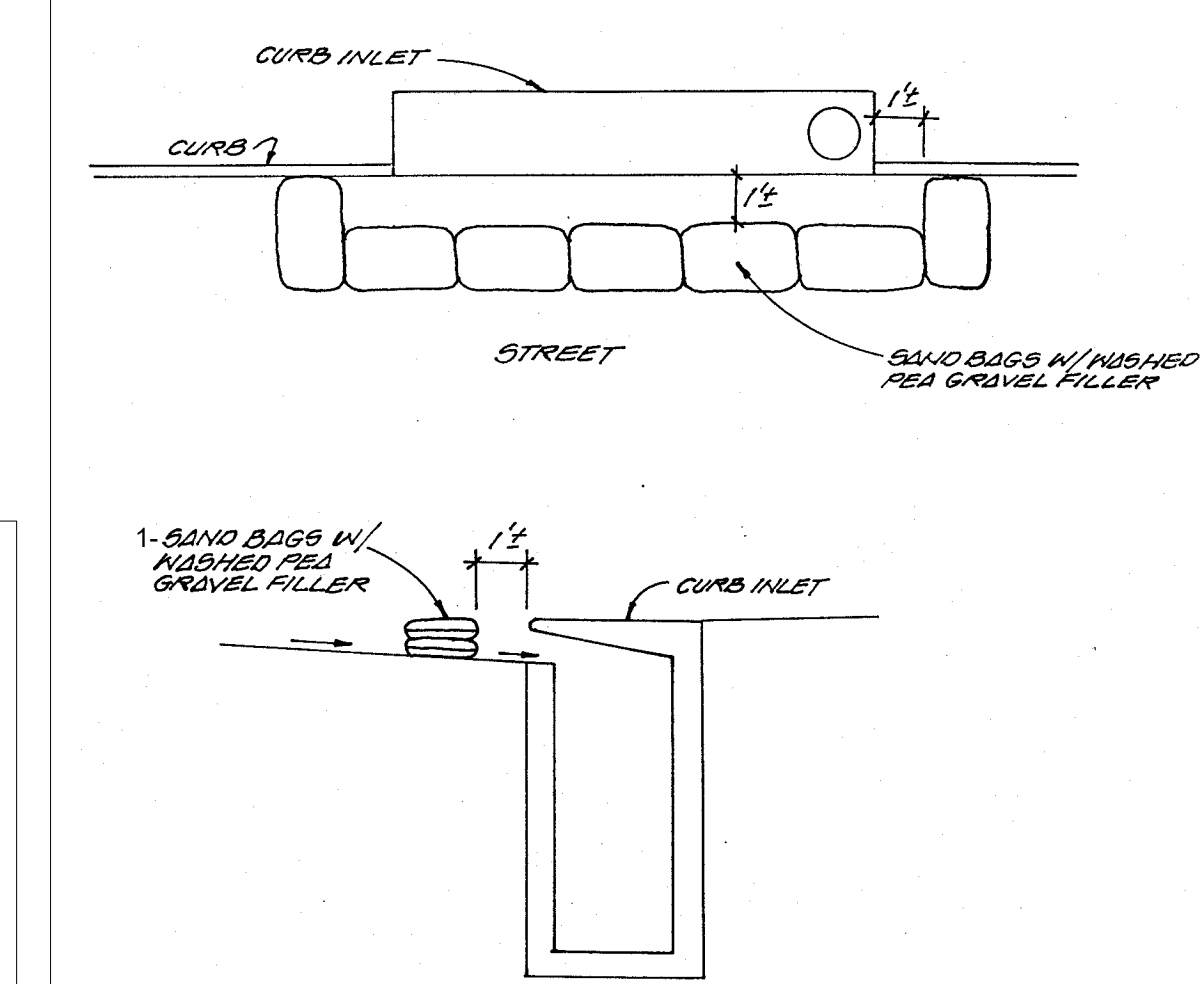


Figure 1-39 Diagram of Bagged Gravel Curb Inlet Protection (Pape-Dawson).

GENERAL NOTES:

- Inspection should be made weekly and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.
- Remove sediment when buildup reaches a depth of 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
- Check placement of device to prevent gaps between device and curb.
- Inspect filter fabric and patch or replace if torn or missing.
- Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized.

INLET PROTECTION (GRAVEL FILTER BAGS)

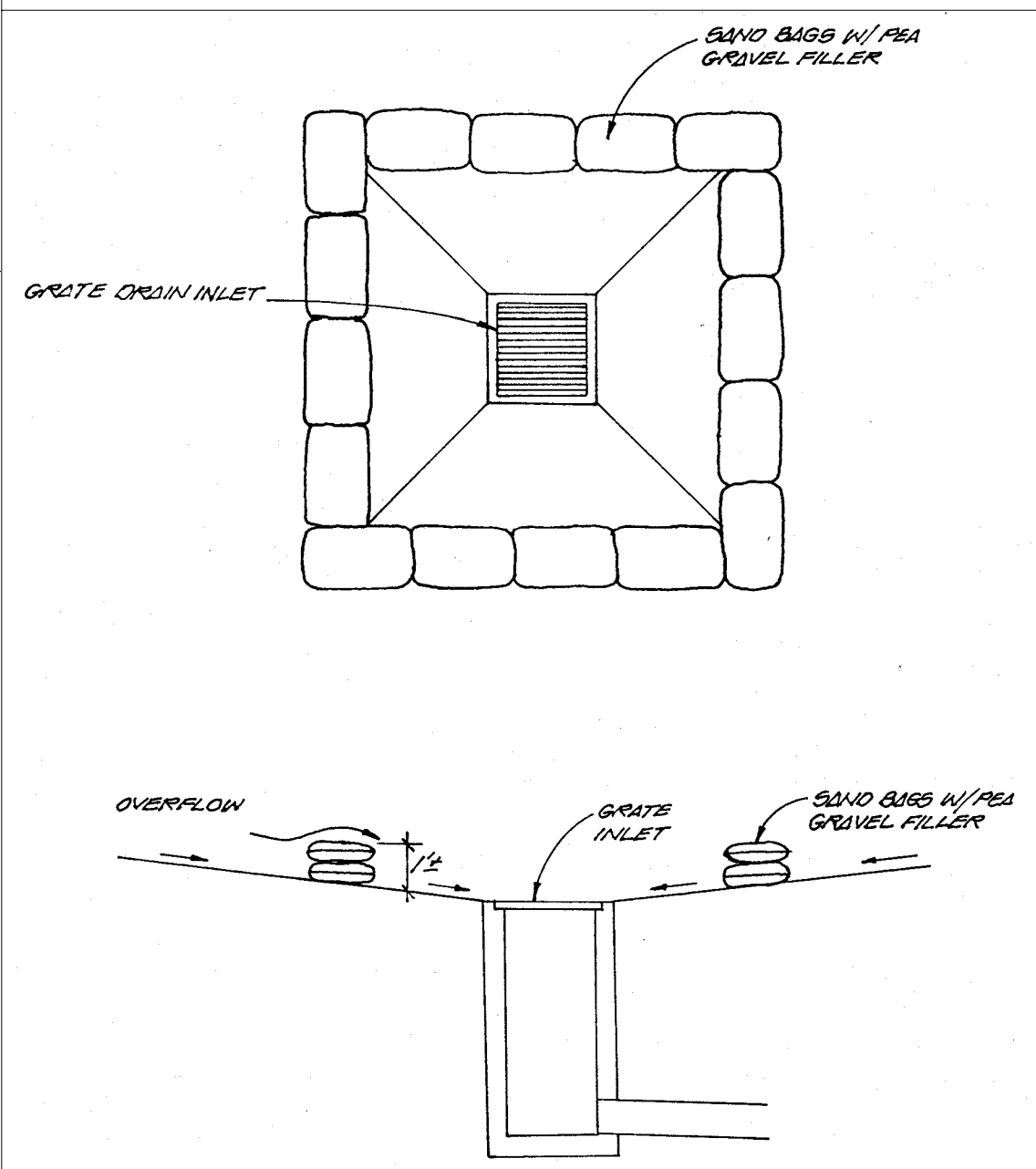
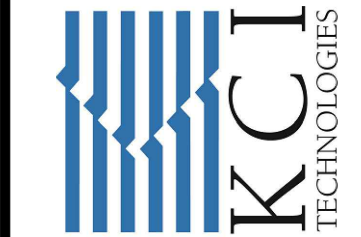


Figure 1-38 Diagram of Bagged Gravel Grate Inlet Protection (Pape-Dawson)

- Inspection should be made weekly and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.
- Remove sediment when buildup reaches a depth of 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
- Check placement of device to prevent gaps between device and curb.
- Inspect filter fabric and patch or replace if torn or missing.
- Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized.

FLAT CREEK SUBDIVISION COMMERCIAL COLLECTOR SEDIMENT & EROSION CONTROL NOTES & DETAILS

KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9899
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65



DRAFTING: G.P.M. CHECK: L.E.
DESIGN: L.E. CHECK: C.P.
SUBMITTAL PHASE:
DATE: 03/2024
KCI JOB #: 762308220
SHEET: