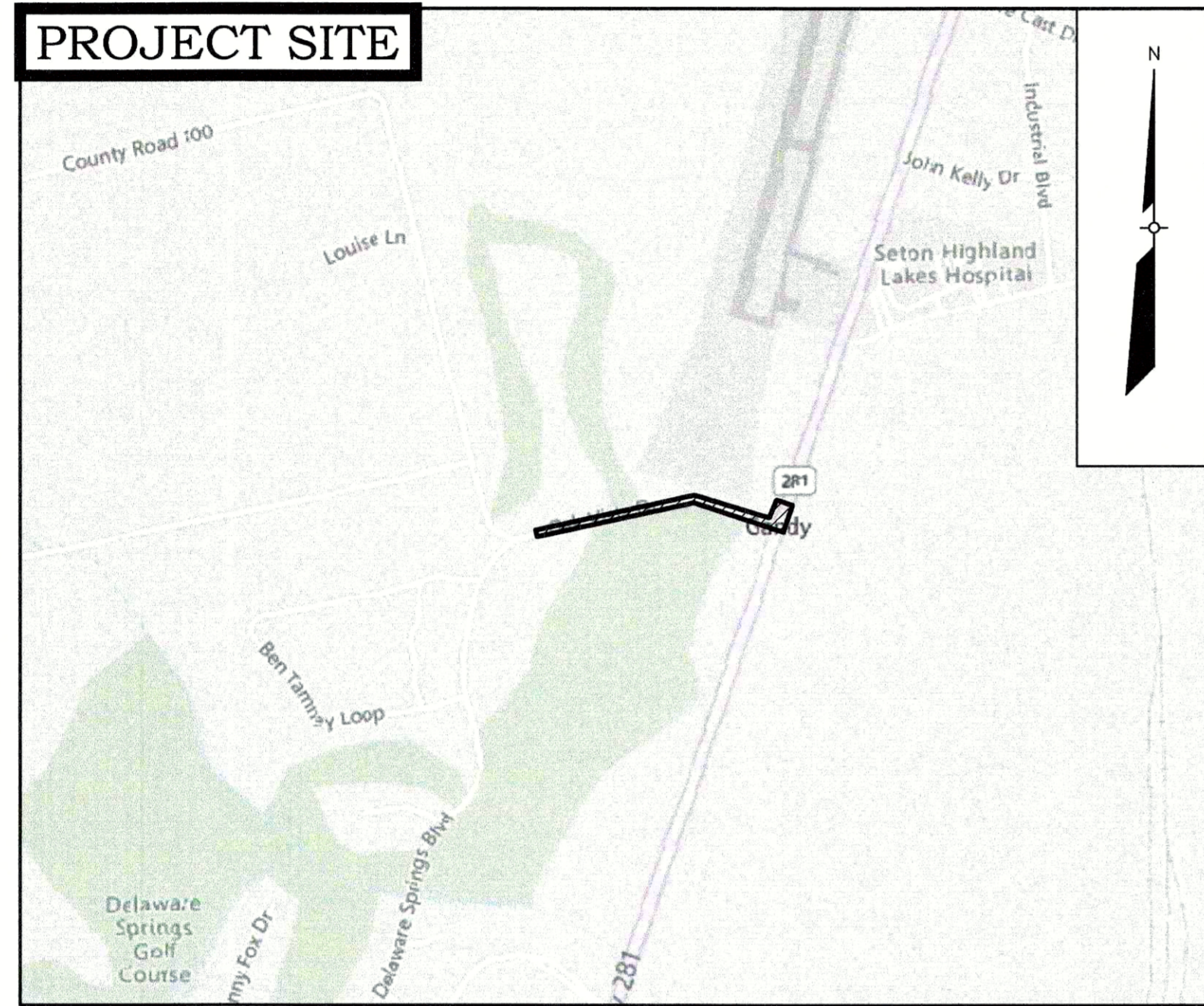


OAK VISTA DRIVE STREET AND DRAINAGE IMPROVEMENTS

CITY OF BURNET, TEXAS
BURNET COUNTY, TEXAS



LOCATION MAP
1" = 1000'

PROJECT DATA:

SUBDIVISION PLAT NUMBER:
SUBMITTAL DATE: SEPTEMBER, 2022
PROJECT ADDRESS: OAK VISTA DRIVE
BURNET, TEXAS 78611
ZONING: N/A
USE: N/A

RELATED CASES:

LEGAL DESCRIPTION:

N/A

BENCHMARKS:

- TBM:
- TBM #1: IS A 1/2" IRON ROD FOUND APPROXIMATELY 19.4' EAST OF A POWER POLE AND 14.5' FROM THE EDGE OF A SIDEWALK WITH ELEVATION = 1257.62'.
TBM #2: IS A 1/2" IRON ROD FOUND LYING IN THE SOUTHEAST RIGHT-OF-WAY LINE AT THE ENTRANCE TO DELAWARE SPRINGS SUBDIVISION, SECTION 3 WITH N: 10,234,928.94', E: 2,953,386.57', ELEVATION = 1258.68'.

GENERAL NOTES:

- THIS SITE IS LOCATED IN THE HAMILTON CREEK WATERSHED.
- THIS SITE IS NOT LOCATED IN THE EDWARDS AQUIFER RECHARGE ZONE.
- FLOOD PLAIN NOTE:
THERE ARE NO AREAS WITHIN THE BOUNDARIES OF THIS RIGHT-OF-WAY IN THE 100-YEAR FLOODPLAIN AS DEFINED BY FIRM MAP NUMBER 48053C0480G, EFFECTIVE DATE OF NOVEMBER 01, 2019.
- CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- WATER AND WASTEWATER SERVICE IS PROVIDED BY THE CITY OF BURNET.
- ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF BURNET MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
- 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 CITY ENGINEERS.
- APPROVAL OF THESE PLANS BY THE CITY OF BURNET INDICATES COMPLIANCE WITH APPLICABLE CITY REGULATIONS ONLY. APPROVAL BY OTHER GOVERNMENTAL ENTITIES MAY BE REQUIRED PRIOR TO THE START OF CONSTRUCTION. THE APPLICANT IS RESPONSIBLE FOR DETERMINING WHAT ADDITIONAL APPROVALS MAY BE NECESSARY.

UTILITIES:

WATER AND WASTEWATER
CITY OF BURNET
CONTACT: JACOB THOMAS
PHONE: (512) 756-2402
EMAIL: JTHOMAS@CITYOFBURNET.COM
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611

POWER
CITY OF BURNET
CONTACT: TAYLOR STUCKEY
PHONE: (512) 756-2402
EMAIL: TSTUCKEY@CITYOFBURNET.COM
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611

TELECOM
FRONTIER COMMUNICATIONS
CONTACT: STEVE WOLFF
PHONE: (512) 863-2745
EMAIL: STEVE.WOLFF@FTR.COM

SHEET INDEX:

- SHEET 1 COVER SHEET
- SHEET 2 GENERAL NOTES
- SHEET 3 TXDOT NOTES 1 OF 3
- SHEET 4 TXDOT NOTES 2 OF 3
- SHEET 5 TXDOT NOTES 3 OF 3
- SHEET 6 EXISTING CONDITIONS AND DEMOLITION PLAN
- SHEET 7 EROSION CONTROL PLAN
- SHEET 8 EXISTING DRAINAGE CONDITIONS
- SHEET 9 MASTER DRAINAGE PLAN
- SHEET 10 OAK VISTA DRIVE STA 00+00 TO 7+50
- SHEET 11 OAK VISTA DRIVE STA 7+50 TO END
- SHEET 12 US HIGHWAY 281 - R.T. TURN TAPER/DRAINAGE
- SHEET 13 SIGNAGE AND PAVEMENT STRIPING PLAN
- SHEET 14 CULVERT "A" PLAN AND PROFILE
- SHEET 15 CULVERT "B" PLAN AND PROFILE
- SHEET 16 TRAFFIC CONTROL DETAILS
- SHEET 17 BARRICADE AND CHANNELIZING DEVICES DETAILS 1 OF 3
- SHEET 18 BARRICADE AND CHANNELIZING DEVICES DETAILS 2 OF 3
- SHEET 19 BARRICADE AND CHANNELIZING DEVICES DETAILS 3 OF 3
- SHEET 20 WORK ZONE DETAILS
- SHEET 21 PAVEMENT MARKING DETAILS
- SHEET 22 SIGN MOUNTING DETAILS
- SHEET 23 TYPICAL SIGN REQUIREMENTS
- SHEET 24 EROSION CONTROL DETAILS
- SHEET 25 STREET AND DRAINAGE DETAILS

CIVIL ENGINEER & PERMIT CONSULTANT:

HUGO ELIZONDO, JR, P.E., NO. 69781
CUATRO CONSULTANTS, LTD., FIRM NO. F-3524
3601 KYLE CROSSING, SUITE A
KYLE, TEXAS 78640
(512) 312-5040, EXT. 1

SURVEYOR:

GEORGE E. LUCAS, RPLS NO. 4160
CELCO SURVEYING, FIRM REGISTRATION NO. 10193975
18018 OVERLOOK LOOP, SUITE 105, UNIT 239
SAN ANTONIO, TEXAS 78259
(512) 635-4857

OWNER:

CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611
(512) 756-6093

SUBMITTED BY:

HUGO ELIZONDO, JR, P.E., NO. 69781
CUATRO CONSULTANTS, LTD., FIRM NO. F-3524
120 RIVERWALK DRIVE, SUITE 208
SAN MARCOS, TEXAS 78666
(512) 312-5040, EXT. 1

REVIEWED BY:

CARLY KEHOE
PUBLIC WORKS DIRECTOR
CITY OF BURNET, TEXAS
SIGNATURE VALID FOR ONE (1) YEAR

ERIC BELAJ, P.E., CFM
CITY ENGINEER
CITY OF BURNET, TEXAS



BURNET CITY COUNCIL:

HONORABLE GARY WIDERMAN	- MAYOR
RICKY LANGLEY	- COUNCIL MEMBER
JOYCE LAUDENSHLAGER	- COUNCIL MEMBER
DANNY LESTER	- COUNCIL MEMBER
PHILIP THURMAN	- COUNCIL MEMBER
DENNIS LANGLEY	- COUNCIL MEMBER
TRES CLINTON	- COUNCIL MEMBER

REVISIONS:

REVISIONS/CORRECTIONS									
NO.	DESCRIPTION	REVISE (R) ADD (A) VOID (V) SHEET NO.'S	TOTAL NO. SHEETS IN PLAN SET	NET CHANGE IMP. COVER (SQ.FT.)	TOTAL SITE IMP. COVER (SQ.FT.) / %	CITY OF AUSTIN APPROVAL/ DATE	DATE IMAGED		

BURNET CITY STAFF:

DAVID VAUGHN	- CITY MANAGER
HABIB ERKAN, JR.	- ASSISTANT CITY MANAGER
CARLY KEHOE	- PUBLIC WORKS DIRECTOR
ERIC BELAJ, P.E., CFM	- CITY ENGINEER
JACOB THOMAS	- WATER/WASTEWATER FIELD SUPERVISOR
MARK MILLER	- STREET/PARKS SUPERINTENDENT

NOTES TO CONTRACTOR:

- BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS TO USE, HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HER SUBCONTRACTORS' AND MATERIAL SUPPLIERS' KNOWLEDGE ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.
- THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT THE OWNER OF EACH INDIVIDUAL UTILITY FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS PRIOR TO BEGINNING ANY CONSTRUCTION.

DATE: _____

BY: _____

DESCRIPTION: _____

REVISION: _____

CUATRO CONSULTANTS, LTD.
Registration No. F-3524
120 Riverwalk Drive, Suite 208
San Marcos, Texas 78666
Phone: (512) 312-5040 Fax: (512) 312-5399
Email: contact@cuatros.com

**OAK VISTA DRIVE
STREET AND DRAINAGE
IMPROVEMENTS
CITY OF BURNET, TEXAS**

**CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611**

CLIENT:

DATE: SEPTEMBER, 2022

PROJECT: 21-231.27

DRAWING'S NAME: 01_OV_COVER SHEET

DESIGN: --- **CHECKED:** CDE

DRAWN: ARM **APPROVED:** HE Jr.

SHEET: 1 OF 25

ITEM 666 – RETROREFLECTORIZED PAVEMENT MARKINGS

NOTIFY THE ENGINEER AT LEAST 24 HR. BEFORE BEGINNING WORK.

PLACE LONGITUDINAL MARKINGS NIGHTLY FOR IH 35 MAIN LANES OR ROADWAYS WITH ADT GREATER THAN 100,000. USE OF TEMPORARY FLEXIBLE REFLECTIVE ROADWAY MARKER TABS IS SUBSIDIARY AND AT THE CONTRACTOR'S OPTION. CONTRACTOR MUST REPLACE MISSING OR DAMAGED TABS NIGHTLY. IF USING TABS, PLACE LONGITUDINAL MARKINGS WEEKLY BY 5 AM FRIDAY FOR ALL WEEKDAY WORK AND BY 5 AM MONDAY FOR ALL WEEKEND WORK. FAILURE TO MAINTAIN TEMPORARY MARKINGS OR PLACE LONGITUDINAL MARKINGS BY DEADLINE WILL REQUIRE NIGHTLY PLACEMENT OF PAVEMENT MARKINGS.

PLACE LONGITUDINAL MARKINGS A MINIMUM OF ONCE A WEEK FOR ALL PRIOR WORK FOR ROADWAYS WITH ADT GREATER THAN 20,000. PLACE LONGITUDINAL MARKINGS WITHIN 10 CALENDAR DAYS OF PLACING SURFACE FOR ROADWAYS WITH ADT GREATER THAN 5,000.

TY II MARKINGS MUST CURE 48 HR. PRIOR TO PLACING TY I MARKINGS.

WHEN THE RAISED PORTION OF A PROFILE MARKING IS PLACED AS A SEPARATE OPERATION FROM THE PAVEMENT MARKING, THE RAISED PORTION MUST BE PLACED FIRST THEN COVERED WITH TY I.

WHEN USING BLACK SHADOW TO COVER EXISTING STRIPE, APPLY A NON-RETROREFLECTIVE ANGULAR ABRASIVE BEAD DROP.

REFERENCE ALL EXISTING STRIPES BEFORE COMMENCING WORK. OBTAIN APPROVAL FOR PLACEMENT OF GUIDE MARKS BEFORE INSTALLING PERMANENT PAVEMENT MARKINGS. THIS WORK IS SUBSIDIARY.

PLACEMENT OF MARKINGS USING MOBILE OPERATIONS WILL BE LIMITED TO NON-PEAK HOURS.

PEAK HOURS FOR MOBILE OPERATIONS

LOCATION	WEEKDAY	WEEKEND
WITHIN AUSTIN CITY LIMITS	6A – 10A & 2P – 7P	N/A
OUTSIDE AUSTIN CITY LIMITS	7A – 9A & 3P – 7P	N/A
IH 35 MAIN LANES	5A – 10P	9A – 9P
ADT OVER 100,000	5A – 8P	10A – 8P

ITEM 730 – ROADSIDE MOWING

PERFORM ROADSIDE MOWING ALONG THE ROADWAY FOR THE LENGTH OF THE PROJECT, AS DIRECTED.

COMPLETE SPOT MOWING, AS DIRECTED.

ITEM 734 – LITTER REMOVAL

COMPLETE LITTER REMOVAL CYCLES ALONG THE ROADWAY FOR THE LENGTH OF THE PROJECT, AS DIRECTED.

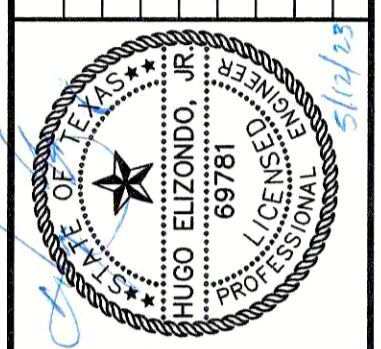
COMPLETE LITTER REMOVAL CYCLES PRIOR TO ANY MOWING CYCLES.

REMOVE ALL LITTER ON THE RIGHT OF WAY, WITHIN PROJECT LIMITS.

ITEM 738 – CLEANING AND SWEEPING HIGHWAYS

COMPLETE CLEANING AND SWEEPING CYCLES AT THE INTERVALS, AS DIRECTED. COMPLETE ONE CYCLE AT THE END OF CONSTRUCTION AND PRIOR TO FINAL ACCEPTANCE BY THE DEPARTMENT.

REVISION	DESCRIPTION	BY	DATE



QUATRO
consultants

Registration No. F-5924
120 Riverside Drive, Suite 208
San Marcos, Texas 78666
Phone: (512) 515-5940 Fax: (512) 515-5999
email: contact@quattroconsultants.com

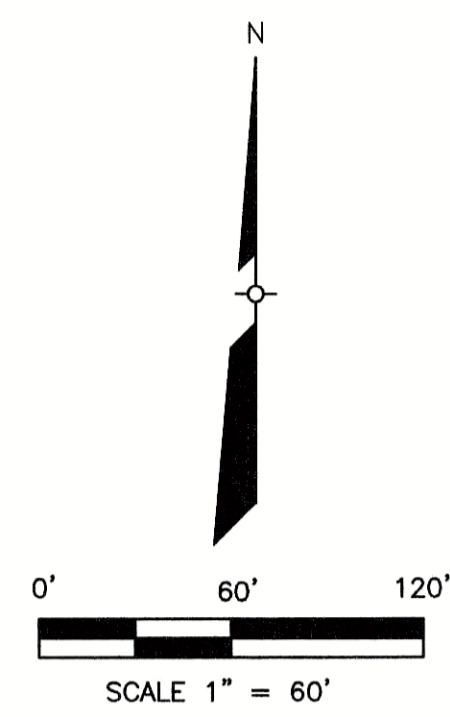
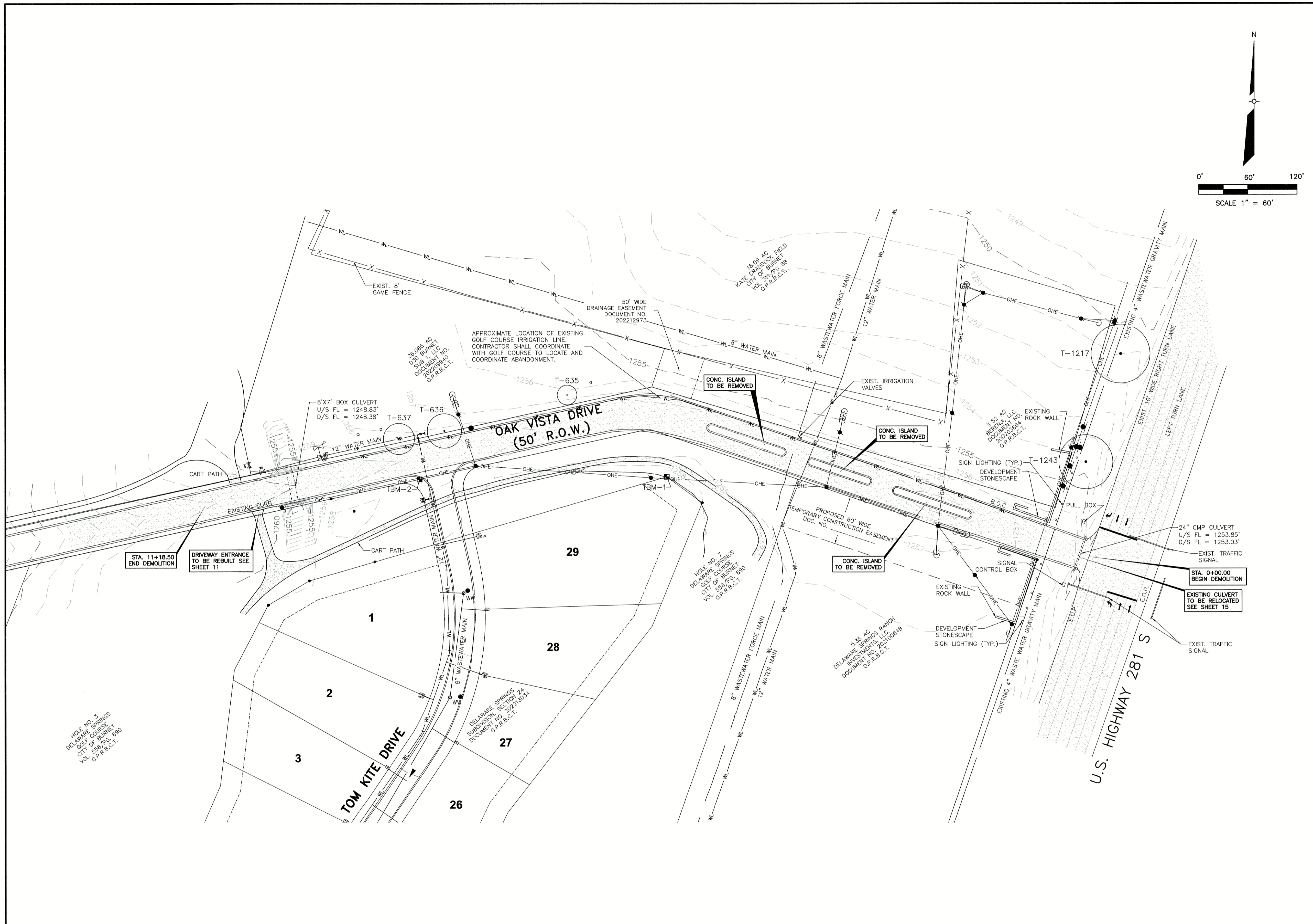
TXDOT NOTES 3 OF 3

OAK VISTA DRIVE
STREET AND DRAINAGE
IMPROVEMENTS
CITY OF BURNET, TEXAS

CLIENT:
CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611

DATE: SEPTEMBER, 2022
PROJECT: 21-231.27
DRAWING'S NAME: 03-05_OV_TXDOT NOTES
DESIGN: --- CHECKED: CDE
DRAWN: CDE APPROVED: HE Jr.
SHEET: **5 OF 25**

NOTE: SHEETS 3, 4 AND 5 APPLY ONLY TO WORK WITHIN THE U.S. HIGHWAY 281 RIGHT-OF-WAY.



LEGEND	
EXISTING	DESCRIPTION
---	BOUNDARY LINE
---	EASEMENT BOUNDARY
---	CONTOURS
---	LOT LINE
---	CENTER LINE OF DITCH
WL	WATER LINE
WV	WATER VALVE
FV	FIRE HYDRANT
WM	WATER METER
AV	AIR RELEASE VALVE
FLV	FLUSH VALVE
WWL	WASTEWATER LINE
WWFM	WASTEWATER FORCE MAIN
MH	MANHOLE
WCC	WASTEWATER CLEANOUT
WWS	WASTEWATER SERVICE
OHE	OVERHEAD ELECTRIC
UE	SUBSURFACE ELECTRIC
TR	TRANSFORMER
OTL	OVERHEAD TELEPHONE LIGHT POLE
PP	POWER POLE
GW	GUY WIRE
SS	STORM SEWER
CMP/RCP	CMP/RCP PIPES
TEL	TELEPHONE LINE
FOC	FIBER OPTIC CABLE
GL	GAS LINE
PAV	PAVEMENT (HMAC)
CON	CONCRETE
CLF	CHAIN LINK FENCE
WF	WOOD FENCE
BWF	BARBED WIRE FENCE
TF	TRAFFIC FLOW
HS	HANDICAP SPACE
T-101	EXISTING TREE TO REMAIN
T-101	EXISTING TREE TO BE REMOVED

DATE:	BY:	DESCRIPTION:	REVISION:



QUATRO CONSULTANTS, LTD.

Registration No. 13524
 120 Riverwalk Drive, Suite 208
 San Marcos, Texas 78666
 Phone: (512) 712-2040 Fax: (512) 712-5999
 e-mail: contact@quattroconsultants.com

EXISTING CONDITIONS AND DEMOLITION PLAN
OAK VISTA DRIVE STREET AND DRAINAGE IMPROVEMENTS
CITY OF BURNET, TEXAS

CLIENT:
CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611

DATE: SEPTEMBER, 2022
PROJECT: 21-231.27
DRAWING'S NAME: 06_01_01 EXISTING CONDITIONS AND DEMO PLAN
DESIGN: CHECKED: CDE
DRAWN: ARM **APPROVED:** HE Jr.

TREE TABLE - TO REMAIN	
TREE TAG	TREE DESCRIPTION
T-635	12" ELM
T-636	21" POST OAK
T-637	19" MESQUITE
T-1217	36" LIVE OAK
T-1243	33" LIVE OAK

TEMPORARY BENCHMARK:
 TBM #1: IS A 1/2" IRON ROD FOUND APPROXIMATELY 19.4' EAST OF A POWER POLE AND 14.5' FROM THE EDGE OF A SIDEWALK WITH ELEVATION = 1257.62'.
 TBM #2: IS A 1/2" IRON ROD FOUND LYING IN THE SOUTHEAST RIGHT-OF-WAY LINE AT THE ENTRANCE TO DELAWARE SPRINGS SUBDIVISION, SECTION 3 WITH E: 2,953,386.57', N: 10,234,928.94', ELEVATION = 1258.68'.

SOURCE:
 TOPOGRAPHIC SURVEY PERFORMED ON 07/15/22 BY CELCO SURVEYING, FIRM REGISTRATION NO. 10193975.

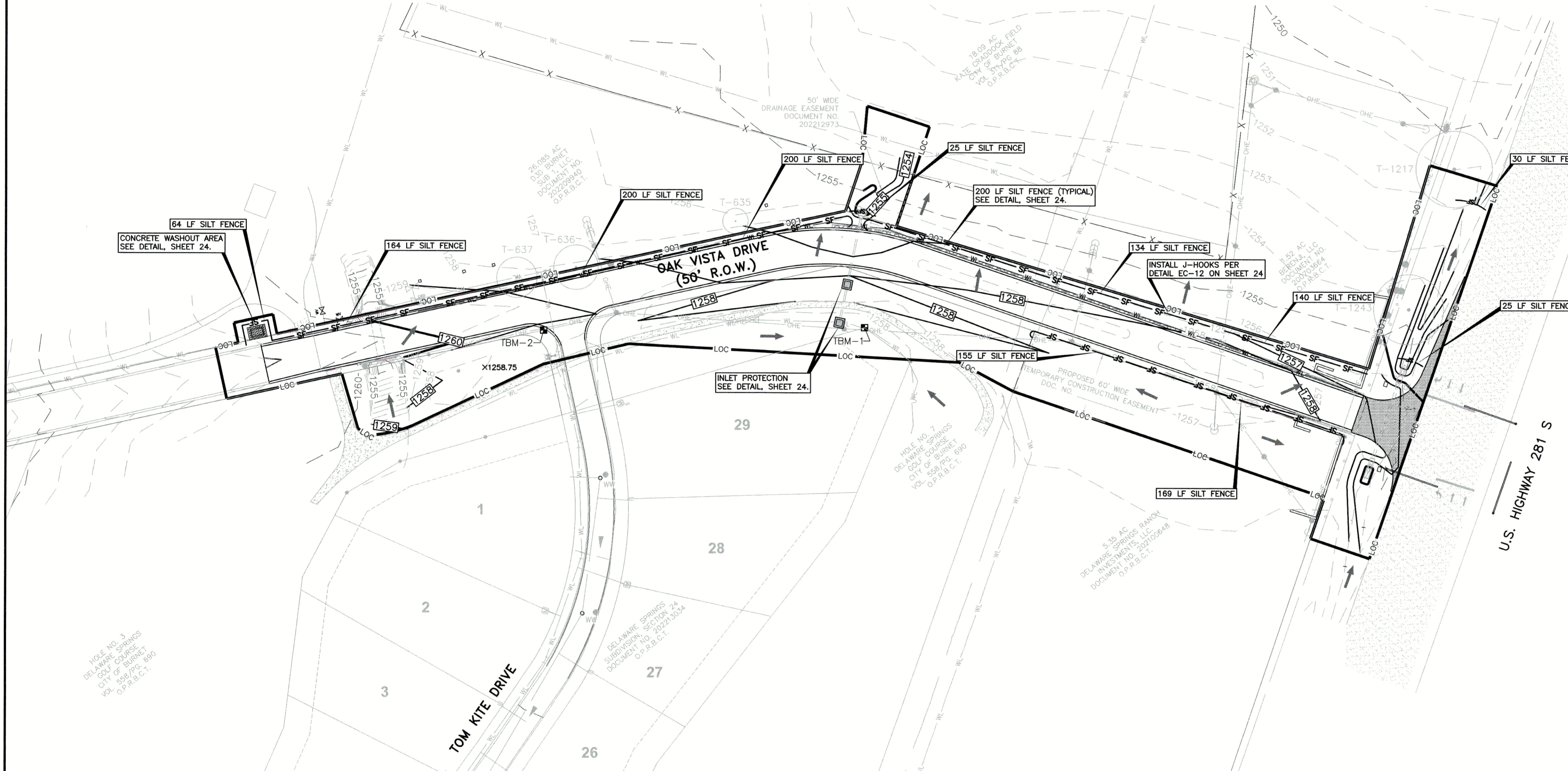
SEQUENCE OF CONSTRUCTION:

THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING THE FOLLOWING EROSION CONTROL AND STORMWATER MANAGEMENT CONTROL STRUCTURES. THE ULTIMATE RESPONSIBILITY FOR IMPLEMENTING THESE CONTROLS AND ENSURING THEIR ACTIVITIES WILL BE AS FOLLOWS:

- INSTALL SILT FENCE IN THE LOCATIONS SHOWN ON THE STREET PLAN AND PROFILE SHEET.
- CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING INCLUDING CITY REPRESENTATIVES, ENGINEER OF RECORD, CONTRACTOR/ SUBCONTRACTOR SUPERINTENDENT, AND CITY ENGINEER.
- BEGIN SITE GRADING AND EXPLORATORY EXCAVATION OPERATIONS TO LOCATE EXISTING UTILITIES.
- INSTALL WATER/WASTEWATER MAINS AND ADJUST EXISTING UTILITIES WHICH MAY BE IN CONFLICT WITH FINAL GRADE.
- ROAD SUBGRADE PREPARATION.
- FINALIZE PAVEMENT SUBGRADE PREPARATION, INSTALL BASE MATERIAL.
- INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.
- CARRY OUT FINAL GRADING.
- REMOVE SILT FENCING ONLY AFTER ALL PAVING IS COMPLETE AND EXPOSED SURFACES ARE STABILIZED.
- INSTALL FINAL PAVEMENT AS SHOWN ON THE PLANS.

EROSION CONTROL NOTES:

- CONTRACTOR SHALL INSTALL AND MAINTAIN SCE THROUGHOUT PROJECT. PRIOR TO BASE INSTALLATION IN THIS AREA, REMOVE ROCK ENTRANCE AND PLACE BASE. SITE SHOULD BE PAVED AS SOON AS PRACTICALLY POSSIBLE.
- SEE SEEDING FOR EROSION CONTROL, SHEET 2 AND FOR EROSION CONTROL DETAILS SEE SHEET 24.
- INSTALL INLET PROTECTION WITHIN 1 DAY AFTER HMA OR CONCRETE IS PLACED.
- LOCATION OF CONTROLS IS SHOWN FOR SCHEMATIC REPRESENTATION ONLY. CONTRACTOR IS RESPONSIBLE FOR INSTALLING FENCE WITHIN PROJECT SITE AND AT EFFECTIVE LOCATIONS.
- ANY DISTURBED AREAS ARE TO BE REVEGETATED.
- ROCK FILTER DAMS PLACED IN THE SAFETY ZONE OF TxDOT ROW SHALL HAVE SIDE SLOPES OF 6:1 OR FLATTER.
- CONCRETE WASHOUT AREA SHALL HAVE A PLASTIC LINER, AND MUST BE CLEANED OUT WHEN FILLED TO GROUND LEVEL OR ONCE FILLED TO THE TOP OF THE ABOVE GRADE FRAME.
- CONCRETE WASHOUT PIT SHALL HAVE A SIGN INDICATING "CONCRETE WASHOUT PIT".



LEGEND		
EXISTING	PROPOSED	DESCRIPTION
---	---	BOUNDARY LINE
---	---	EASEMENT BOUNDARY
---	---	CONTOURS
---	---	LOT LINE
---	---	CENTER LINE OF DITCH
---	---	WATER LINE
---	---	WATER VALVE
---	---	FIRE HYDRANT
---	---	WATER METER
---	---	FLUSH VALVE
---	---	AIR RELEASE VALVE
---	---	WASTEWATER LINE
---	---	FORCE MAIN
---	---	MANHOLE
---	---	WASTEWATER CLEANOUT
---	---	WASTEWATER SERVICE
---	---	OVERHEAD ELECTRIC
---	---	UNDERGROUND ELECTRIC
---	---	TRANSFORMER BOX
---	---	LIGHT POLE
---	---	POWER POLE
---	---	GUY WIRE
---	---	STORM SEWER
---	---	CMP/ RCP PIPES
---	---	OVER HEAD TELEPHONE
---	---	FIBER OPTIC CABLE
---	---	GAS LINE
---	---	PAVEMENT (HMA)
---	---	CONCRETE
---	---	CHAIN LINK FENCE
---	---	WOOD FENCE
---	---	BARBED WIRE FENCE
---	---	TRAFFIC FLOW
---	---	HANDICAP SPACE
---	---	LIMITS OF CONSTRUCTION
---	---	SILT FENCE
---	---	STABILIZED CONSTRUCTION ENTRANCE
---	---	STAGING/STORAGE AREA
---	---	INLET PROTECTION
---	---	ROCK BERM
---	---	DRAINAGE FLOW

ACQUATRO CONSULTANTS
 Registration No. F-5324
 120 Kinnel Drive, Suite 208
 San Antonio, Texas 78248
 Phone: (214) 312-5940 Fax: (214) 312-5999
 Email: contact@acquatro.com

EROSION CONTROL PLAN
 OAK VISTA DRIVE
 STREET AND DRAINAGE
 IMPROVEMENTS
 CITY OF BURNET, TEXAS

CLIENT:
 CITY OF BURNET
 1001 BUCHANAN DRIVE, SUITE 4
 BURNET, TEXAS 78611

DATE:
 SEPTEMBER, 2022

PROJECT:
 21-231.27

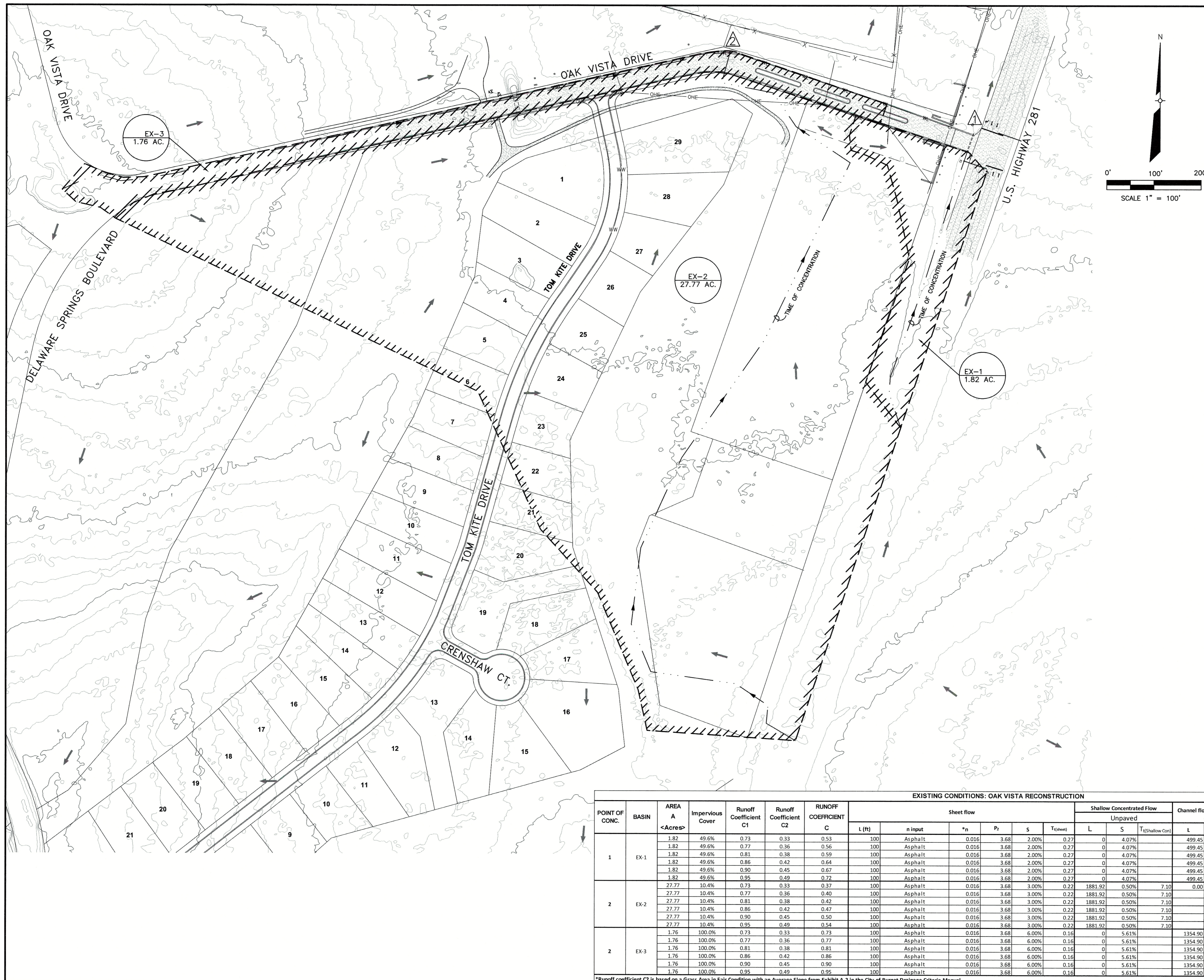
DRAWING'S NAME:
 07_OV_EROSION CONTROL PLAN

DESIGN: KAB
CHECKED: CDE

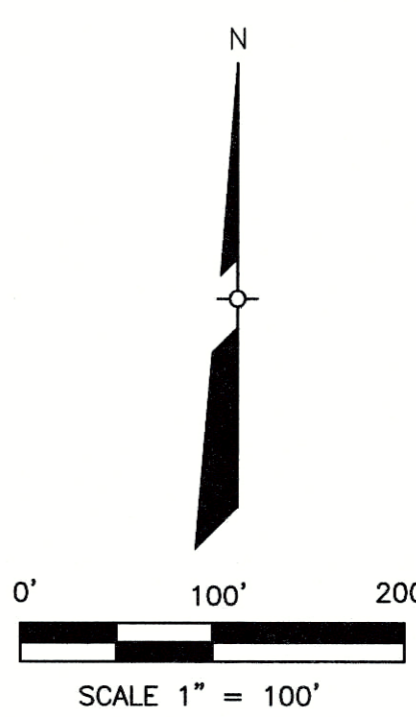
DRAWN: KAB
APPROVED: HE Jr.

SHEET:
7 OF 25

REFERENCE NOTES:
 1. FOR EROSION CONTROL DETAILS, SEE SHEET 24.



LEGEND		DESCRIPTION
EXISTING	PROPOSED	
---	---	BOUNDARY LINE
---	---	EASEMENT BOUNDARY
---	---	CONTOURS
---	---	LOT LINE
---	---	CENTER LINE OF DITCH
WL	WL	WATER LINE
WV	WV	WATER VALVE
FH	FH	FIRE HYDRANT
WM	WM	WATER METER
FLV	FLV	FLUSH VALVE
ARV	ARV	AIR RELEASE VALVE
---	---	WASTEWATER LINE
---	---	FORCE MAIN
---	---	MANHOLE
---	---	WASTEWATER CLEANOUT
---	---	WASTEWATER SERVICE
---	---	OVERHEAD ELECTRIC
---	---	UNDERGROUND ELECTRIC
---	---	TRANSFORMER BOX
---	---	LIGHT POLE
---	---	POWER POLE
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---	---	CMP/ RCP PIPES
---	---	OVER HEAD TELEPHONE
---	---	FIBER OPTIC CABLE
---	---	GAS LINE
---	---	PAVEMENT (HMAC)
---	---	CONCRETE
---	---	CHAIN LINK FENCE
---	---	WOOD FENCE
---	---	BARBED WIRE FENCE
---	---	DRAINAGE BOUNDARY
---	---	TIME OF CONCENTRATION
---	---	DRAINAGE FLOW DIRECTION
---	---	PROPOSED DRAINAGE EASEMENT
---	---	DRAINAGE AREA
---	---	POINT OF CONCENTRATION

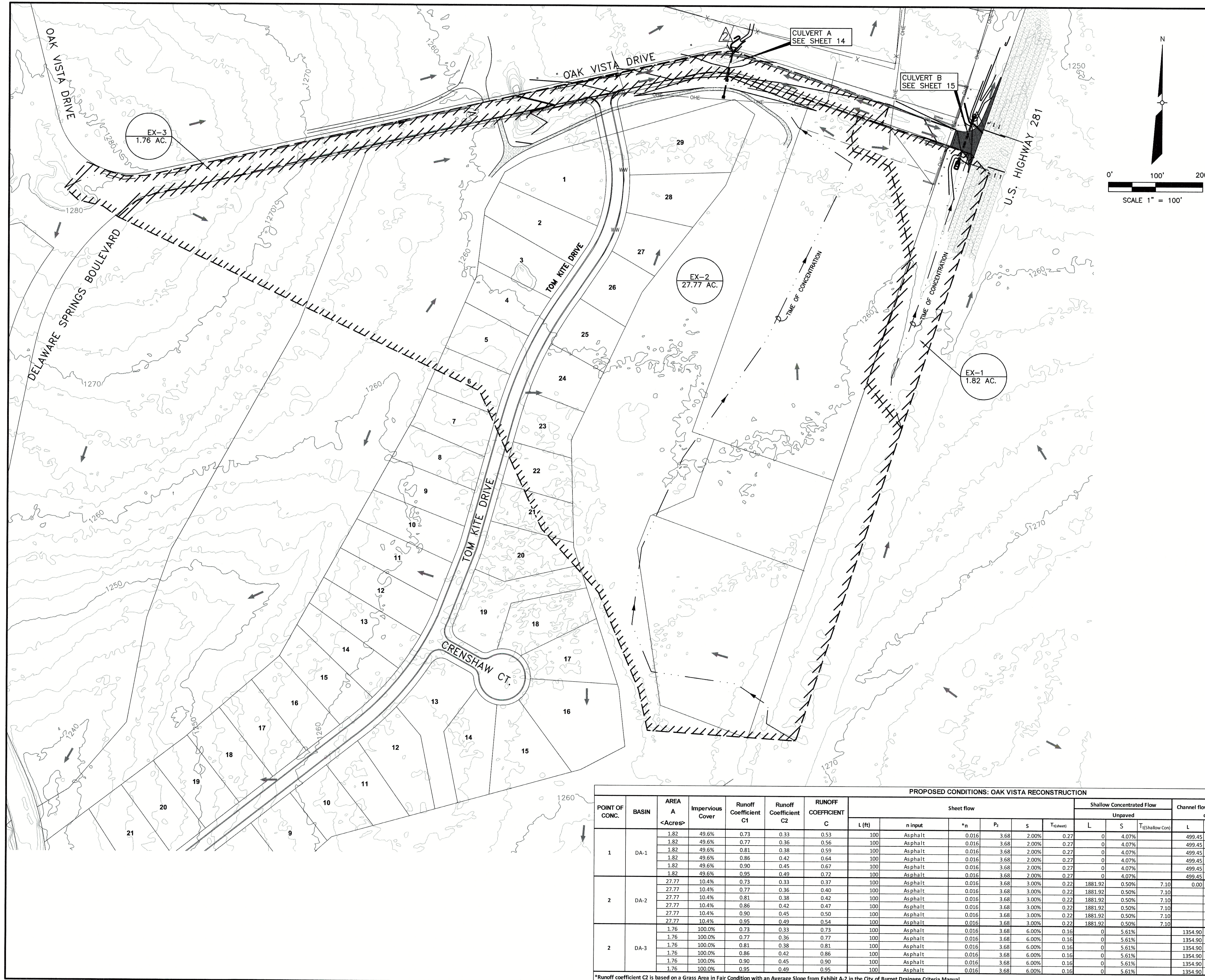


Run-off Values	POC-1	POC-2
2 Year	cfs 5.66	63.31
5 Year	cfs 7.12	80.76
10 Year	cfs 8.37	95.21
25 Year	cfs 10.21	118.26
50 Year	cfs 11.71	137.02
100 Year	cfs 13.57	160.70

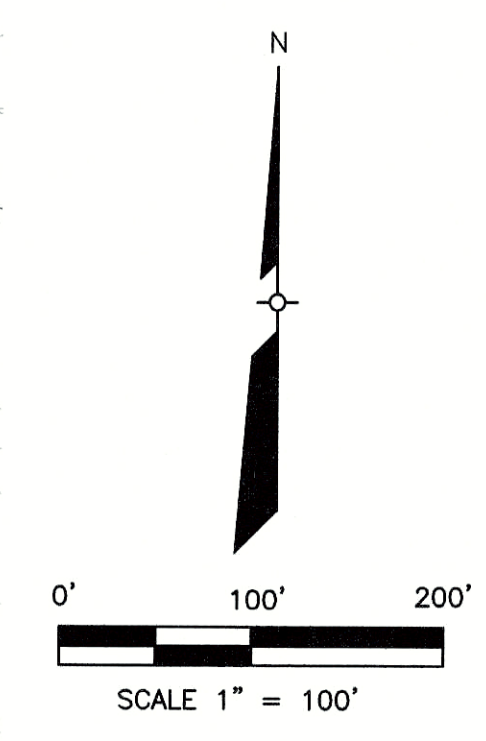
POINT OF CONC.	BASIN	AREA A <Acre>	Impervious Cover	Runoff Coefficient C1	Runoff Coefficient C2	RUNOFF COEFFICIENT C	Sheet flow										Shallow Concentrated Flow Unpaved				Channel flow calculation varies per development				TOTAL TC min, s	DISCHARGE Q <cfs>	Time <yrs.>
							L (ft)	n input	P ₂	S	T _{sheet}	L	S	T ₁ (Shallow Con)	L	V	T _{channel}	TOTAL TC min, s	Intensity	Q <cfs>	Time <yrs.>						
																						Q <cfs>	Time <yrs.>	Q <cfs>			
1	EX-1	1.82	49.6%	0.73	0.33	0.53	100	Asphalt	0.016	3.68	2.00%	0.27	0	4.07%	499.45	3.00	2.77	5.00	5.88	5.66	2-yr						
		1.82	49.6%	0.77	0.36	0.56	100	Asphalt	0.016	3.68	2.00%	0.27	0	4.07%	499.45	3.00	2.77	5.00	6.94	7.12	5-yr						
		1.82	49.6%	0.81	0.38	0.59	100	Asphalt	0.016	3.68	2.00%	0.27	0	4.07%	499.45	3.00	2.77	5.00	7.75	8.37	10-yr						
		1.82	49.6%	0.86	0.42	0.64	100	Asphalt	0.016	3.68	2.00%	0.27	0	4.07%	499.45	3.00	2.77	5.00	8.79	10.21	25-yr						
		1.82	49.6%	0.90	0.45	0.67	100	Asphalt	0.016	3.68	2.00%	0.27	0	4.07%	499.45	3.00	2.77	5.00	9.56	11.71	50-yr						
2	EX-2	27.77	10.4%	0.73	0.33	0.37	100	Asphalt	0.016	3.68	3.00%	0.22	1881.92	0.50%	7.10	0.00	4.37	0.00	7.32	5.40	55.75	2-yr					
		27.77	10.4%	0.77	0.36	0.40	100	Asphalt	0.016	3.68	3.00%	0.22	1881.92	0.50%	7.10	4.37	0.00	7.32	6.38	71.36	5-yr						
		27.77	10.4%	0.81	0.38	0.42	100	Asphalt	0.016	3.68	3.00%	0.22	1881.92	0.50%	7.10	4.37	0.00	7.32	7.14	84.15	10-yr						
		27.77	10.4%	0.86	0.42	0.47	100	Asphalt	0.016	3.68	3.00%	0.22	1881.92	0.50%	7.10	4.37	0.00	7.32	8.11	104.95	25-yr						
		27.77	10.4%	0.90	0.45	0.50	100	Asphalt	0.016	3.68	3.00%	0.22	1881.92	0.50%	7.10	4.37	0.00	7.32	8.83	121.88	50-yr						
2	EX-3	1.76	100.0%	0.73	0.33	0.73	100	Asphalt	0.016	3.68	6.00%	0.16	0	5.61%	1354.90	6.82	3.31	5.00	5.88	7.56	2-yr						
		1.76	100.0%	0.77	0.36	0.77	100	Asphalt	0.016	3.68	6.00%	0.16	0	5.61%	1354.90	6.82	3.31	5.00	6.94	9.40	5-yr						
		1.76	100.0%	0.81	0.38	0.81	100	Asphalt	0.016	3.68	6.00%	0.16	0	5.61%	1354.90	6.82	3.31	5.00	7.75	11.05	10-yr						
		1.76	100.0%	0.86	0.42	0.86	100	Asphalt	0.016	3.68	6.00%	0.16	0	5.61%	1354.90	6.82	3.31	5.00	8.79	13.31	25-yr						
		1.76	100.0%	0.90	0.45	0.90	100	Asphalt	0.016	3.68	6.00%	0.16	0	5.61%	1354.90	6.82	3.31	5.00	9.56	15.14	50-yr						

*Runoff coefficient C2 is based on a Grass Area in Fair Condition with an Average Slope from Exhibit A-2 in the City of Burnet Drainage Criteria Manual.

BY: DATE:	
DESCRIPTION:	
REVISION:	
QUATRO Consultants, Inc. Registration No. F-5324 120 Keweenaw Drive, Suite 208 San Marcos, Texas 78666 Phone: (512) 313-5040 Fax: (512) 313-5399 Email: quattro@quatroinc.com	
EXISTING DRAINAGE CONDITIONS OAK VISTA DRIVE STREET AND DRAINAGE IMPROVEMENTS CITY OF BURNET, TEXAS	CLIENT: CITY OF BURNET 1001 BUCHANAN DRIVE, SUITE 4 BURNET, TEXAS 78611
DATE:	SEPTEMBER, 2022
PROJECT:	21-231.27
DRAWING'S NAME:	08_OV_EXISTING DRAINAGE CONDITIONS
DESIGN: KAB	CHECKED: CDE
DRAWN: KAB	APPROVED: HE Jr.
SHEET:	8 OF 25



LEGEND		
EXISTING	PROPOSED	DESCRIPTION
---	---	BOUNDARY LINE
---	---	EASEMENT BOUNDARY
---	---	CONTOURS
---	---	LOT LINE
---	---	CENTER LINE OF DITCH
---	---	WATER LINE
---	---	WATER VALVE
---	---	FIRE HYDRANT
---	---	WATER METER
---	---	FLUSH VALVE
---	---	AIR RELEASE VALVE
---	---	WASTEWATER LINE
---	---	FORCE MAIN
---	---	MANHOLE
---	---	WASTEWATER CLEANOUT
---	---	WASTEWATER SERVICE
---	---	OVERHEAD ELECTRIC
---	---	UNDERGROUND ELECTRIC
---	---	TRANSFORMER BOX
---	---	LIGHT POLE
---	---	POWER POLE
---	---	GUY WIRE
---	---	STORM SEWER
---	---	CMP/ ROP PIPES
---	---	OVER HEAD TELEPHONE
---	---	FIBER OPTIC CABLE
---	---	GAS LINE
---	---	PAVEMENT (HMAC)
---	---	CONCRETE
---	---	CHAIN LINK FENCE
---	---	WOOD FENCE
---	---	BARBED WIRE FENCE
---	---	DRAINAGE BOUNDARY
---	---	TIME OF CONCENTRATION
---	---	DRAINAGE FLOW DIRECTION
---	---	PROPOSED DRAINAGE EASEMENT
---	---	DRAINAGE AREA
---	---	POINT OF CONCENTRATION



DRAINAGE NOTE:
 DRAINAGE FOR THIS DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE WILL BE NO ADVERSE IMPACTS ON THE CAPACITY, FUNCTION, OR INTEGRITY OF TEXAS DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DRAINAGE FACILITIES.

Run-off Values	Existing		Proposed		
	POC-1	POC-2	POC-1	POC-2	
2 Year	cfs	5.66	63.31	5.66	63.31
5 Year	cfs	7.12	80.76	7.12	80.76
10 Year	cfs	8.37	95.21	8.37	95.21
25 Year	cfs	10.21	118.26	10.21	118.26
50 Year	cfs	11.71	137.02	11.71	137.02
100 Year	cfs	13.57	160.70	13.57	160.70

POINT OF CONC.	BASIN	AREA A <Acres>	Impervious Cover	Runoff Coefficient C1	Runoff Coefficient C2	RUNOFF COEFFICIENT C	Sheet flow												Shallow Concentrated Flow				Channel flow calculation varies per development				TOTAL TC min. s	DISCHARGE Q <cfs>	Time <yrs.>
							Unpaved												Unpaved		T ₁ (Shallow Con)		L	V	T ₁ (channel)	Intensity			
							L	S	L	S	L	S	L	S	L	S	L	S	L	S									
1	DA-1	1.82	49.6%	0.73	0.33	0.53	100	Asphalt	0.016	3.68	2.00%	0.27	0	4.07%	499.45	3.00	2.77	5.00	6.94	5.66	2-yr								
		1.82	49.6%	0.77	0.36	0.56	100	Asphalt	0.016	3.68	2.00%	0.27	0	4.07%	499.45	3.00	2.77	5.00	6.94	7.12	5-yr								
		1.82	49.6%	0.81	0.38	0.59	100	Asphalt	0.016	3.68	2.00%	0.27	0	4.07%	499.45	3.00	2.77	5.00	7.75	8.37	10-yr								
		1.82	49.6%	0.86	0.42	0.64	100	Asphalt	0.016	3.68	2.00%	0.27	0	4.07%	499.45	3.00	2.77	5.00	8.79	10.21	25-yr								
		1.82	49.6%	0.90	0.45	0.67	100	Asphalt	0.016	3.68	2.00%	0.27	0	4.07%	499.45	3.00	2.77	5.00	9.56	11.71	50-yr								
		1.82	49.6%	0.95	0.49	0.72	100	Asphalt	0.016	3.68	2.00%	0.27	0	4.07%	499.45	3.00	2.77	5.00	10.38	13.57	100-yr								
2	DA-2	27.77	10.4%	0.73	0.33	0.37	100	Asphalt	0.016	3.68	3.00%	0.22	1881.92	0.50%	7.10	0.00	4.37	0.00	7.32	5.40	55.75	2-yr							
		27.77	10.4%	0.77	0.36	0.40	100	Asphalt	0.016	3.68	3.00%	0.22	1881.92	0.50%	7.10	0.00	4.37	0.00	7.32	6.38	71.36	5-yr							
		27.77	10.4%	0.81	0.38	0.42	100	Asphalt	0.016	3.68	3.00%	0.22	1881.92	0.50%	7.10	0.00	4.37	0.00	7.32	7.14	84.15	10-yr							
		27.77	10.4%	0.86	0.42	0.47	100	Asphalt	0.016	3.68	3.00%	0.22	1881.92	0.50%	7.10	0.00	4.37	0.00	7.32	8.11	104.95	25-yr							
		27.77	10.4%	0.90	0.45	0.50	100	Asphalt	0.016	3.68	3.00%	0.22	1881.92	0.50%	7.10	0.00	4.37	0.00	7.32	8.83	121.88	50-yr							
		27.77	10.4%	0.95	0.49	0.54	100	Asphalt	0.016	3.68	3.00%	0.22	1881.92	0.50%	7.10	0.00	4.37	0.00	7.32	9.60	143.35	100-yr							
2	DA-3	1.76	100.0%	0.73	0.33	0.73	100	Asphalt	0.016	3.68	6.00%	0.16	0	5.61%	1354.90	6.82	3.31	5.00	5.88	7.56	2-yr								
		1.76	100.0%	0.77	0.36	0.77	100	Asphalt	0.016	3.68	6.00%	0.16	0	5.61%	1354.90	6.82	3.31	5.00	6.94	9.40	5-yr								
		1.76	100.0%	0.81	0.38	0.81	100	Asphalt	0.016	3.68	6.00%	0.16	0	5.61%	1354.90	6.82	3.31	5.00	7.75	11.05	10-yr								
		1.76	100.0%	0.86	0.42	0.86	100	Asphalt	0.016	3.68	6.00%	0.16	0	5.61%	1354.90	6.82	3.31	5.00	8.79	13.31	25-yr								
2	DA-3	1.76	100.0%	0.90	0.45	0.90	100	Asphalt	0.016	3.68	6.00%	0.16	0	5.61%	1354.90	6.82	3.31	5.00	9.56	15.14	50-yr								
		1.76	100.0%	0.95	0.49	0.95	100	Asphalt	0.016	3.68	6.00%	0.16	0	5.61%	1354.90	6.82	3.31	5.00	10.38	17.36	100-yr								

*Runoff coefficient C2 is based on a Grass Area in Fair Condition with an Average Slope from Exhibit A-2 in the City of Burnet Drainage Criteria Manual.

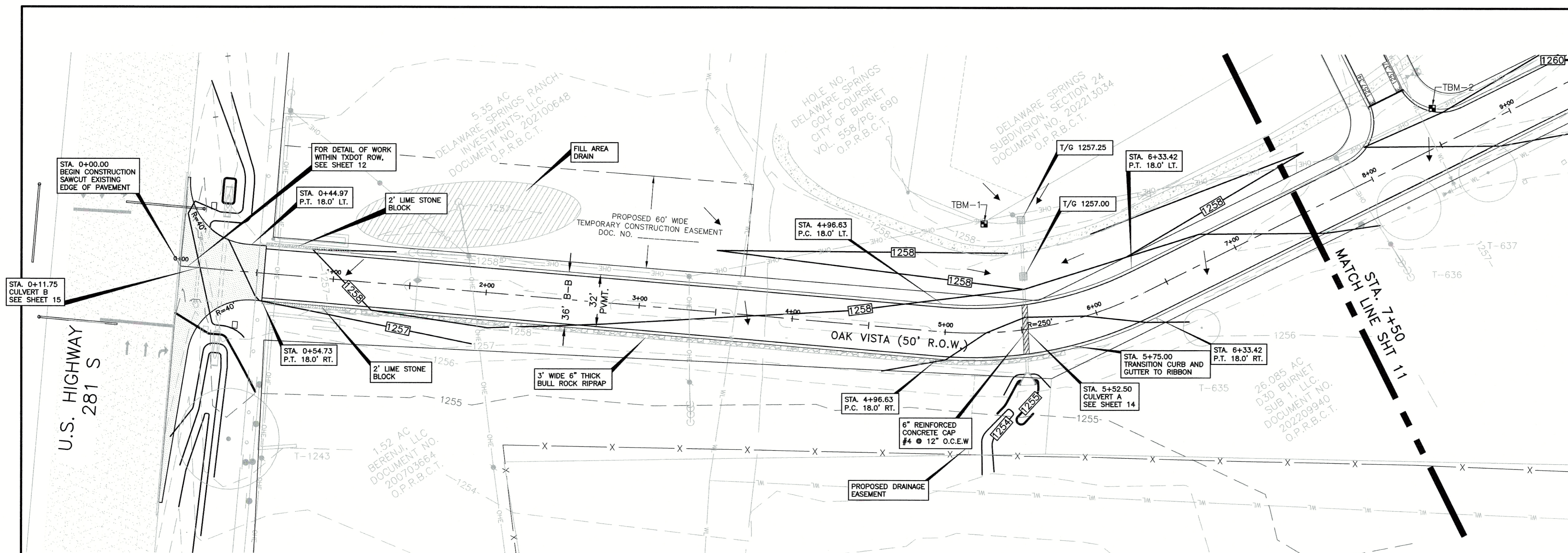
DATE:	SEPTEMBER, 2022
PROJECT:	21-231.27
DRAWING'S NAME:	09_OV_MASTER DRAINAGE PLAN
DESIGN:	KAB
CHECKED:	CDE
DRAWN:	KAB
APPROVED:	HE Jr.
SHEET:	9 OF 25

MASTER DRAINAGE PLAN

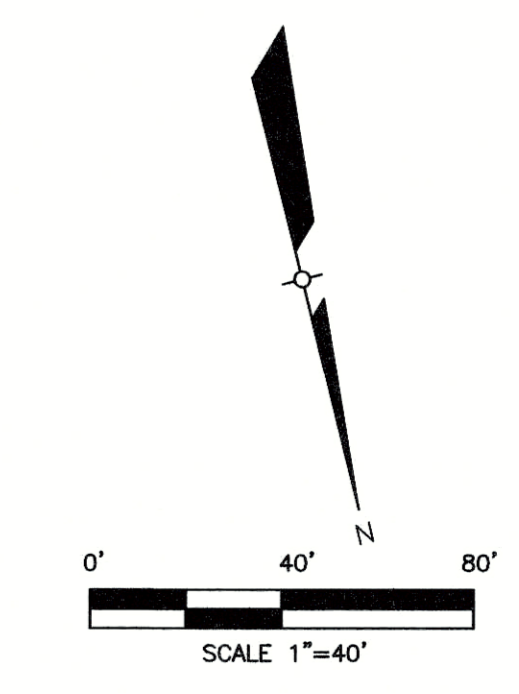
OAK VISTA DRIVE
STREET AND DRAINAGE
IMPROVEMENTS
CITY OF BURNET, TEXAS

CLIENT:

CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611



OAK VISTA DRIVE
(50' R.O.W)
(30 MPH DESIGN SPEED)

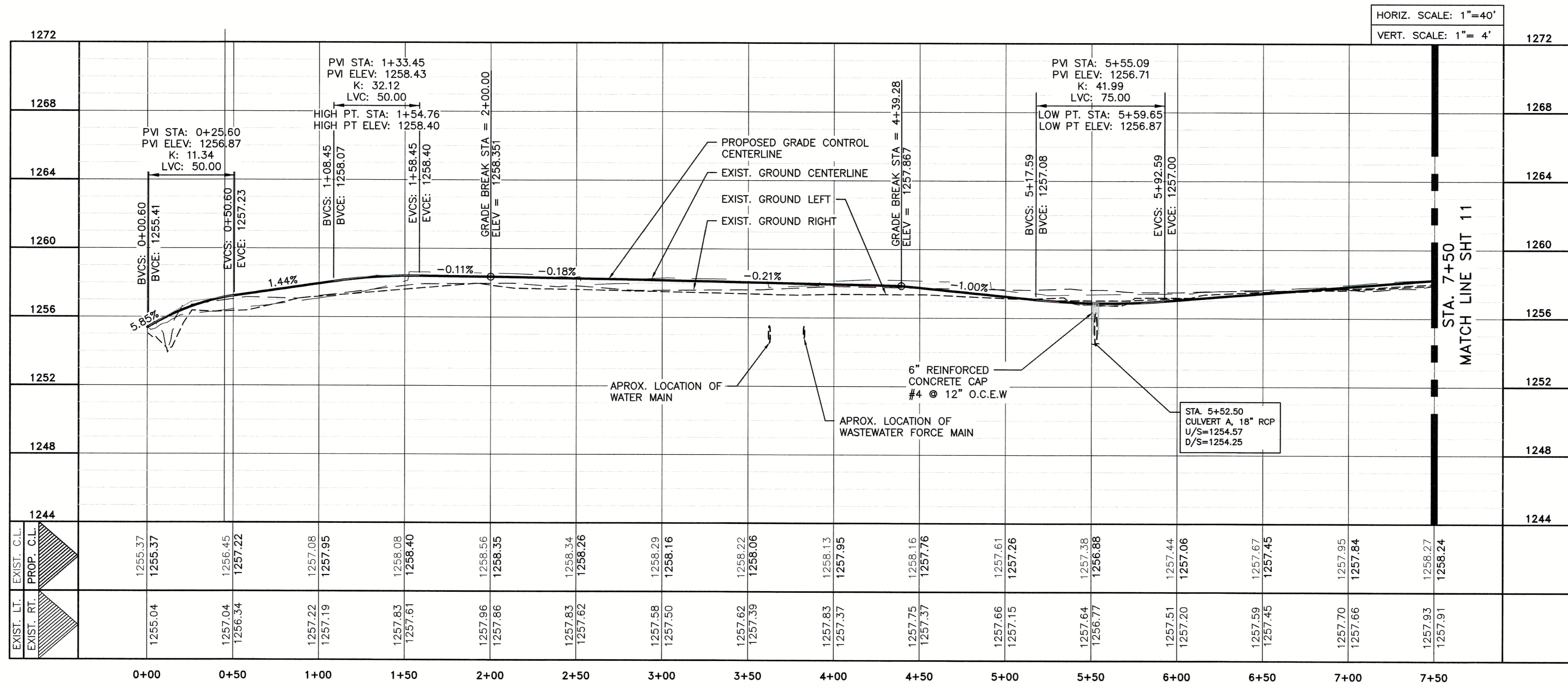


LEGEND

	PROPERTY BOUNDARY
	PROPOSED DRAINAGE EASEMENT
	PROPOSED LOT LINE
	LOT NUMBER
	LOT AREA
	WATER LINE
	FIRE HYDRANT
	WATER METER
	WASTEWATER LINE
	WASTEWATER MANHOLE

PROFILE LEGEND

	EXISTING GROUND CENTERLINE
	EXISTING GROUND LEFT
	EXISTING GROUND RIGHT
	PROPOSED GRADE CONTROL CENTERLINE



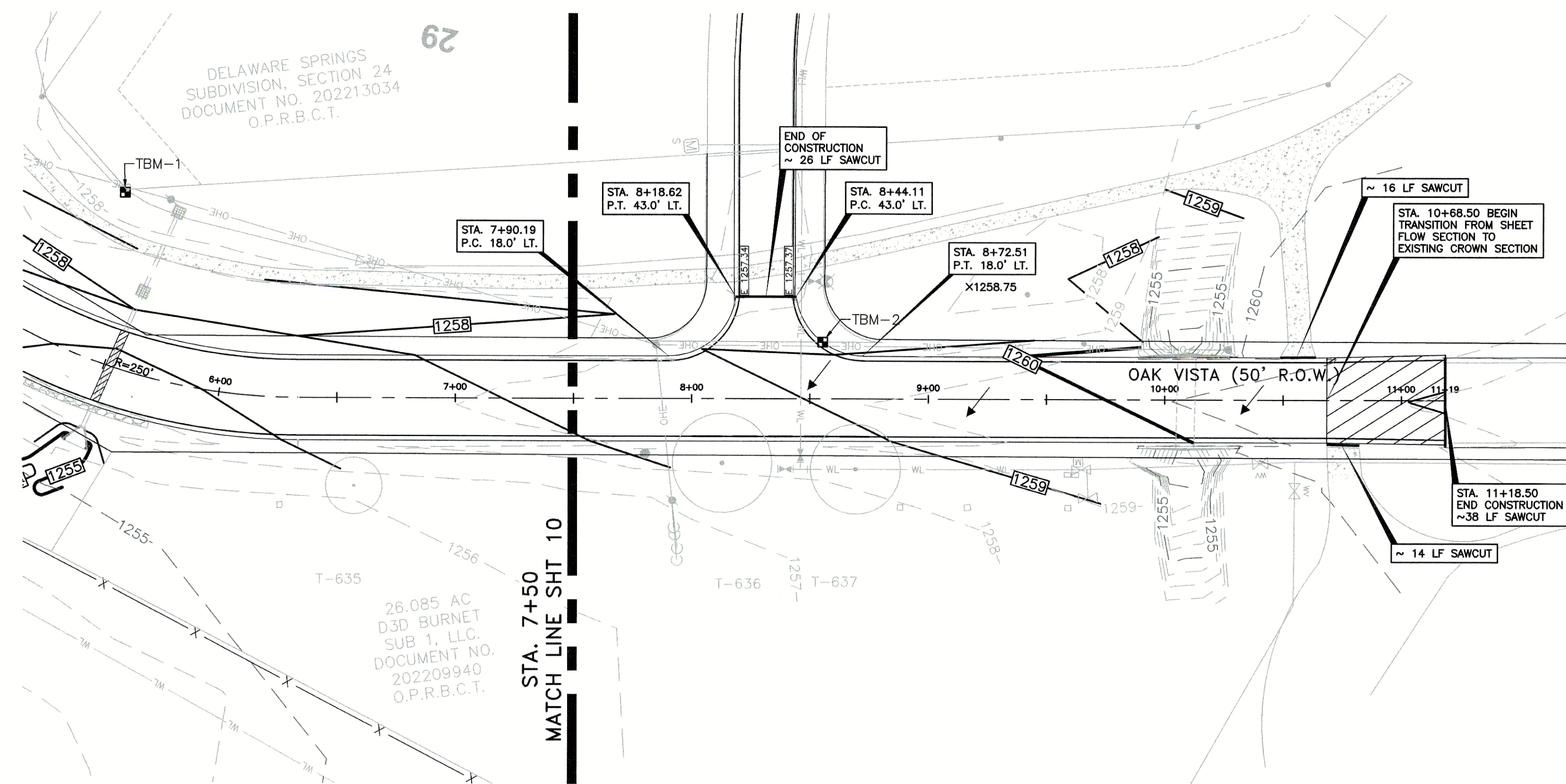
- CONSTRUCTION NOTES:**
- CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. COORDINATE WITH CITY OF BURNET FOR WATER LOCATES AND GOLF COURSE SUPERINTENDENT FOR LOCATION OF IRRIGATION LINES TO BE CUT AND RELOCATED/ABANDONED.
 - CONTRACTOR SHALL REMOVE AND HAUL OFFSITE ALL EXISTING CURB AND PAVEMENT.
 - CONTRACTOR SHALL REMOVE EXISTING FLEXIBLE BASE AND HAUL TO CITY WWTP FOR RE-USE.
- REFERENCE:**
- FOR TYPICAL STREET SECTION, SEE DETAIL SHEET 25.

DATE:	SEPTEMBER, 2022
PROJECT:	21-231.27
DRAWING'S NAME:	10 - 11_OV_OAK VISTA - END
DESIGN:	HE Jr., CDE
CHECKED:	CDE
DRAWN:	ARM
APPROVED:	HE Jr.
SHEET:	10 OF 25

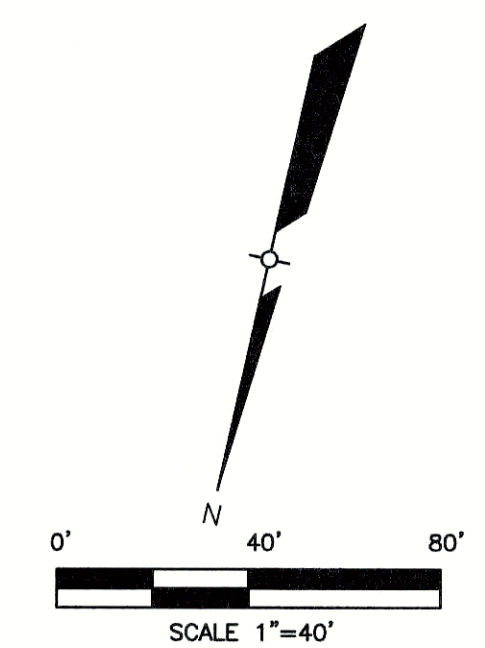
CLIENT:
CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611

PLAN AND PROFILE SHEET
OAK VISTA DRIVE
STA. 0+00 - 7+50
STREET AND DRAINAGE IMPROVEMENTS
CITY OF BURNET, TEXAS

QUATRO
Consultants,
Registration No. F-5324
126 Newhall Drive, Suite 208
Springtown, Texas 76082
Phone: (817) 312-5040 Fax: (817) 312-5999
Email: contact@quattro.com



OAK VISTA DRIVE
(50' R.O.W)
(30 MPH DESIGN SPEED)

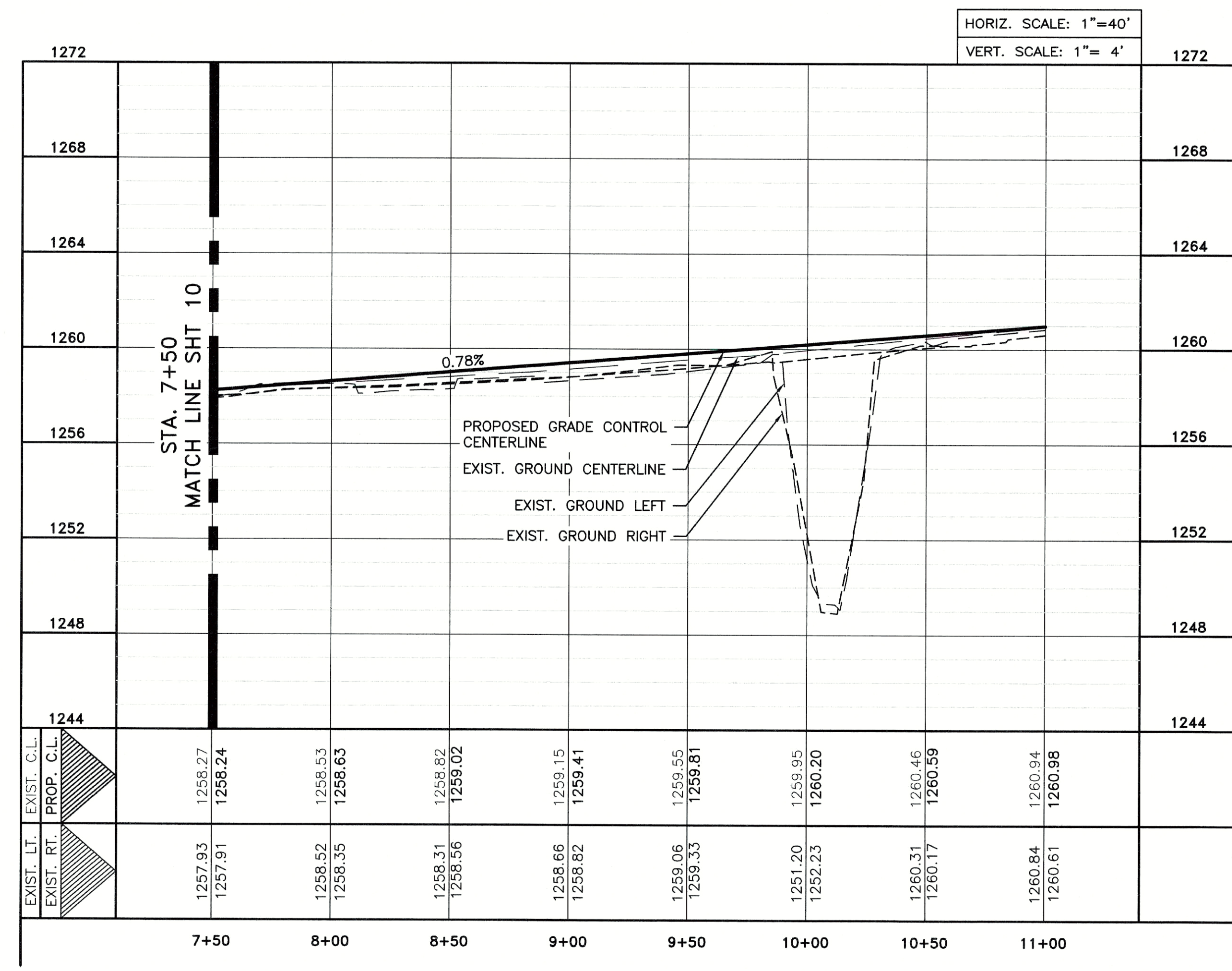


LEGEND

	PROPERTY BOUNDARY
	PROPOSED DRAINAGE EASEMENT
	PROPOSED LOT LINE
	LOT NUMBER
	LOT AREA
	WATER LINE
	FIRE HYDRANT
	WATER METER
	WASTEWATER LINE
	WASTEWATER MANHOLE

PROFILE LEGEND

	EXISTING GROUND CENTER
	EXISTING GROUND LEFT
	EXISTING GROUND RIGHT
	PROPOSED GRADE CONTROL CENTERLINE



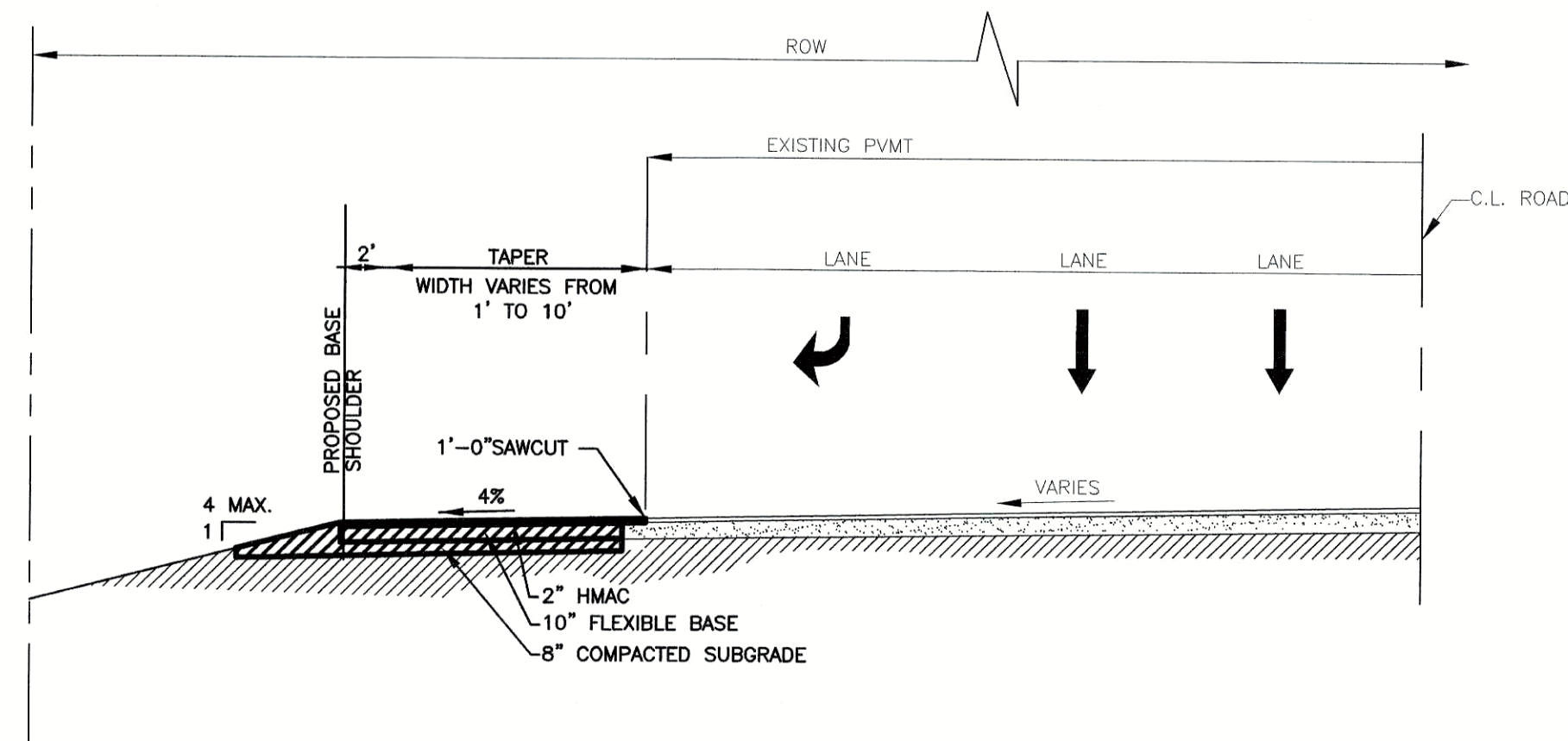
CONSTRUCTION NOTES:

- CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. COORDINATE WITH CITY OF BURNET FOR WATER LOCATES AND GOLF COURSE SUPERINTENDENT FOR LOCATION OF IRRIGATION LINES TO BE CUT AND RELOCATED/ABANDONED.
- CONTRACTOR SHALL REMOVE AND HAUL OFFSITE ALL EXISTING CURB AND PAVEMENT.
- CONTRACTOR SHALL REMOVE EXISTING FLEXIBLE BASE AND HAUL TO CITY WWTP FOR RE-USE.

REFERENCE:

- FOR TYPICAL STREET SECTION, SEE DETAIL SHEET 25.

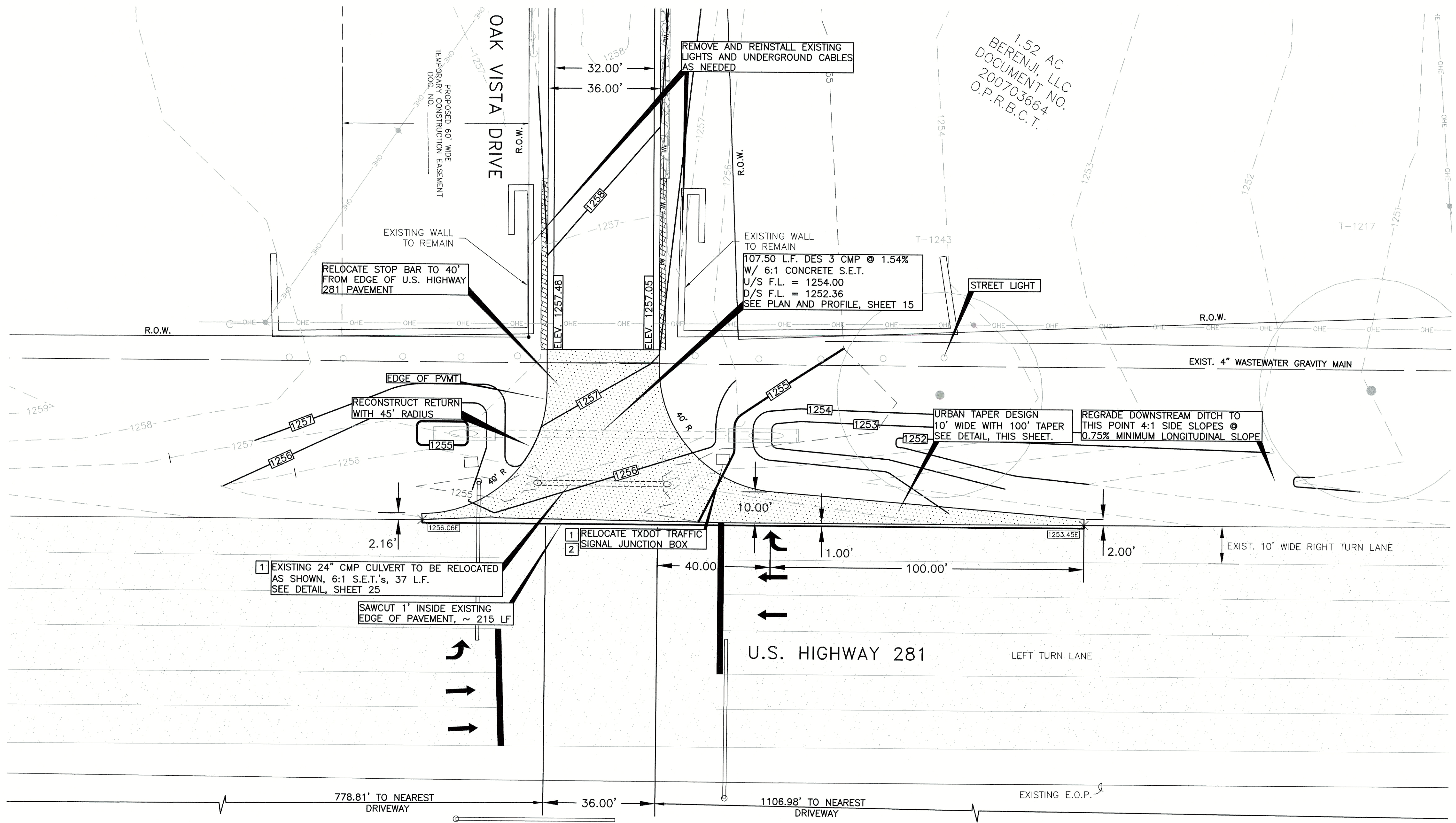
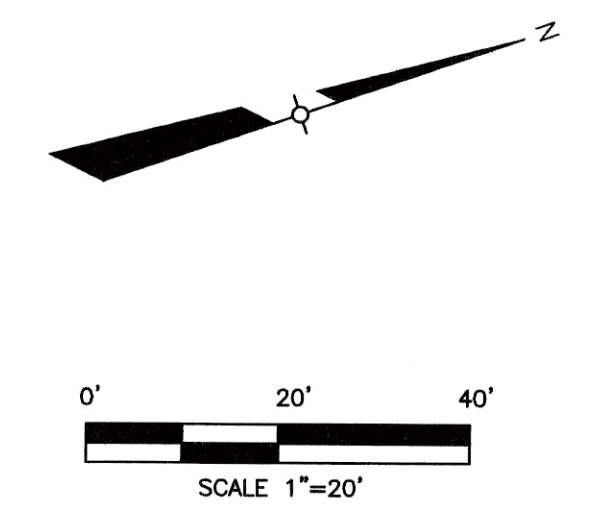
REVISION	DESCRIPTION	BY:	DATE:
QUATRO CONSULTANTS, INC. Registration No. T-5324 120 Kivans Drive, Suite 208 San Marcos, Texas 78666 Phone: (512) 512-5060 Fax: (512) 512-5399 Email: travis@quatroconsultants.com			
PLAN AND PROFILE SHEET OAK VISTA DRIVE STA. 7+50 - END STREET AND DRAINAGE IMPROVEMENTS CITY OF BURNET, TEXAS			
CLIENT: CITY OF BURNET 1001 BUCHANAN DRIVE, SUITE 4 BURNET, TEXAS 78611			
DATE: SEPTEMBER, 2022			
PROJECT: 21-231.27			
DRAWING'S NAME: 10 - 11_OV_OAK VISTA 0+00 - END			
DESIGN: HE Jr., CDE		CHECKED: CDE	
DRAWN: ARM		APPROVED: HE Jr.	
SHEET: 11 OF 25			



TXDOT TAPER: SECTION

NTS

LEGEND		
EXISTING	PROPOSED	DESCRIPTION
---	---	BOUNDARY LINE
---	---	EASEMENT BOUNDARY
---	---	CONTOURS
---	---	LOT LINE
---	---	CENTER LINE OF DITCH
---	---	WATER VALVE
---	---	FIRE HYDRANT
---	---	WATER METER
---	---	FLUSH VALVE
---	---	AIR RELEASE VALVE
---	---	WASTEWATER LINE
---	---	FORCE MAIN
---	---	MANHOLE
---	---	WASTEWATER CLEANOUT
---	---	WASTEWATER SERVICE
---	---	OVERHEAD ELECTRIC
---	---	UNDERGROUND ELECTRIC
---	---	TRANSFORMER BOX
---	---	LIGHT POLE
---	---	POWER POLE
---	---	GUY WIRE
---	---	STORM SEWER
---	---	CMP/ RCP PIPES
---	---	OVER HEAD TELEPHONE
---	---	FIBER OPTIC CABLE
---	---	GAS LINE
---	---	PAVEMENT (HMAC)
---	---	CONCRETE
---	---	CHAIN LINK FENCE
---	---	WOOD FENCE
---	---	BARBED WIRE FENCE
---	---	TRAFFIC FLOW
---	---	HANDICAP SPACE
---	---	FIRE LANE
---	---	5' SIDEWALK/CLEAR ZONE
---	---	7' PLANTING ZONE
---	---	AWNING AREA
---	---	ADA ACCESSIBLE ROUTE
---	---	PHASE LINE
---	---	PHASE NUMBER
---	---	SPOT ELEVATIONS
---	---	GUTTER ELEVATION
---	---	TOP OF CURB ELEVATION
---	---	TOP OF WALL ELEVATION



1.52 AC
BERENJI, LLC
DOCUMENT NO.
200703664
O.P.R.B.C.T.

DATE:	
PROJECT:	
DRAWING'S NAME:	
DESIGN:	
DRAWN:	
SHEET:	

4 CUATRO
consultants,
INC.

Registration No. F-5324
120 Riverside Drive, Suite 208
San Marcos, Texas 78666
Phone: (512) 313-6600 Fax: (512) 313-5399
e-mail: cuatro@fourconsultants.com

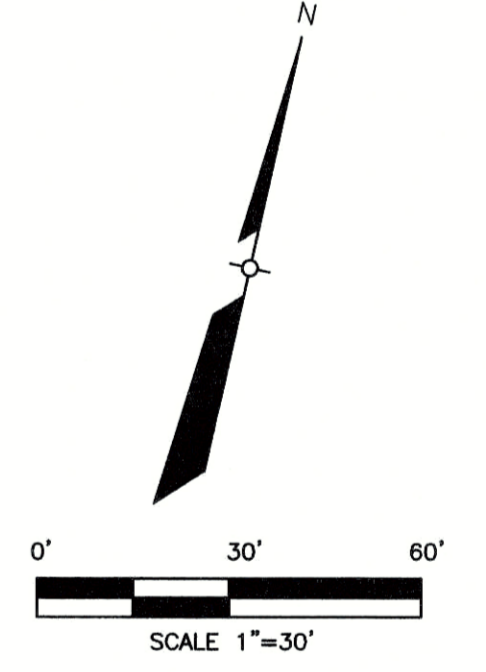
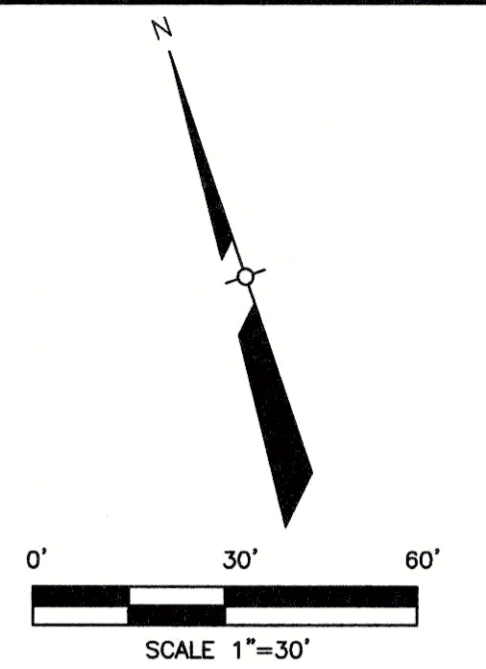
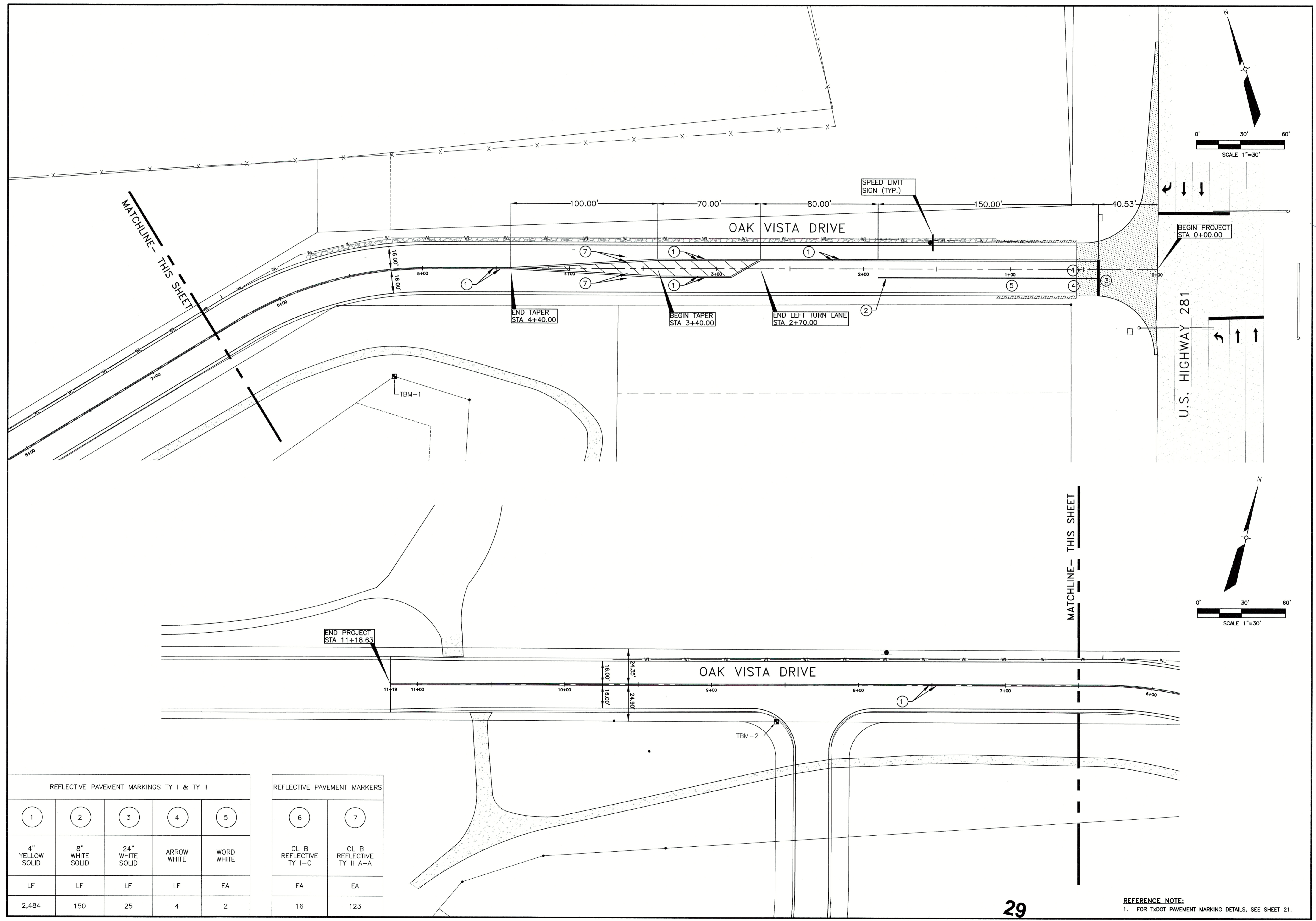
U.S. HIGHWAY 281 - R.T. TURN TAPER/DRAINAGE
OAK VISTA DRIVE
STREET AND DRAINAGE
IMPROVEMENTS
CITY OF BURNET, TEXAS

CLIENT:
CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611

- CONSTRUCTION NOTES:**
- ALL WORK WITHIN THE R.O.W. OF US HIGHWAY 281 SHALL COMPLY WITH TXDOT REQUIREMENTS, SEE SHEETS, 3, 4, AND 5. CONTRACTOR SHALL COORDINATE WITH TXDOT FOR TRAFFIC CONTROL AND INSPECTIONS.
 - CONTRACTOR SHALL COORDINATE WITH TXDOT TO RELOCATE EXISTING TRAFFIC SIGNAL BOX TO MINIMUM OFFSET FROM PROPOSED EDGE OF PAVEMENT.

- NOTES:**
- THE PROPOSED TAPER IS DESIGNED PER TXDOT ACCESS MANAGEMENT STANDARD OPERATION PROCEDURES FROM THE AUSTIN DISTRICT MAINTENANCE OPERATIONS SECTION.

DATE:	SEPTEMBER, 2022
PROJECT:	21-231.27
DRAWING'S NAME:	12_OV_US HWY 281 TAPER-DRAINAGE
DESIGN:	KAB
CHECKED:	CDE
DRAWN:	AWE
APPROVED:	HE Jr.
SHEET:	12 OF 25

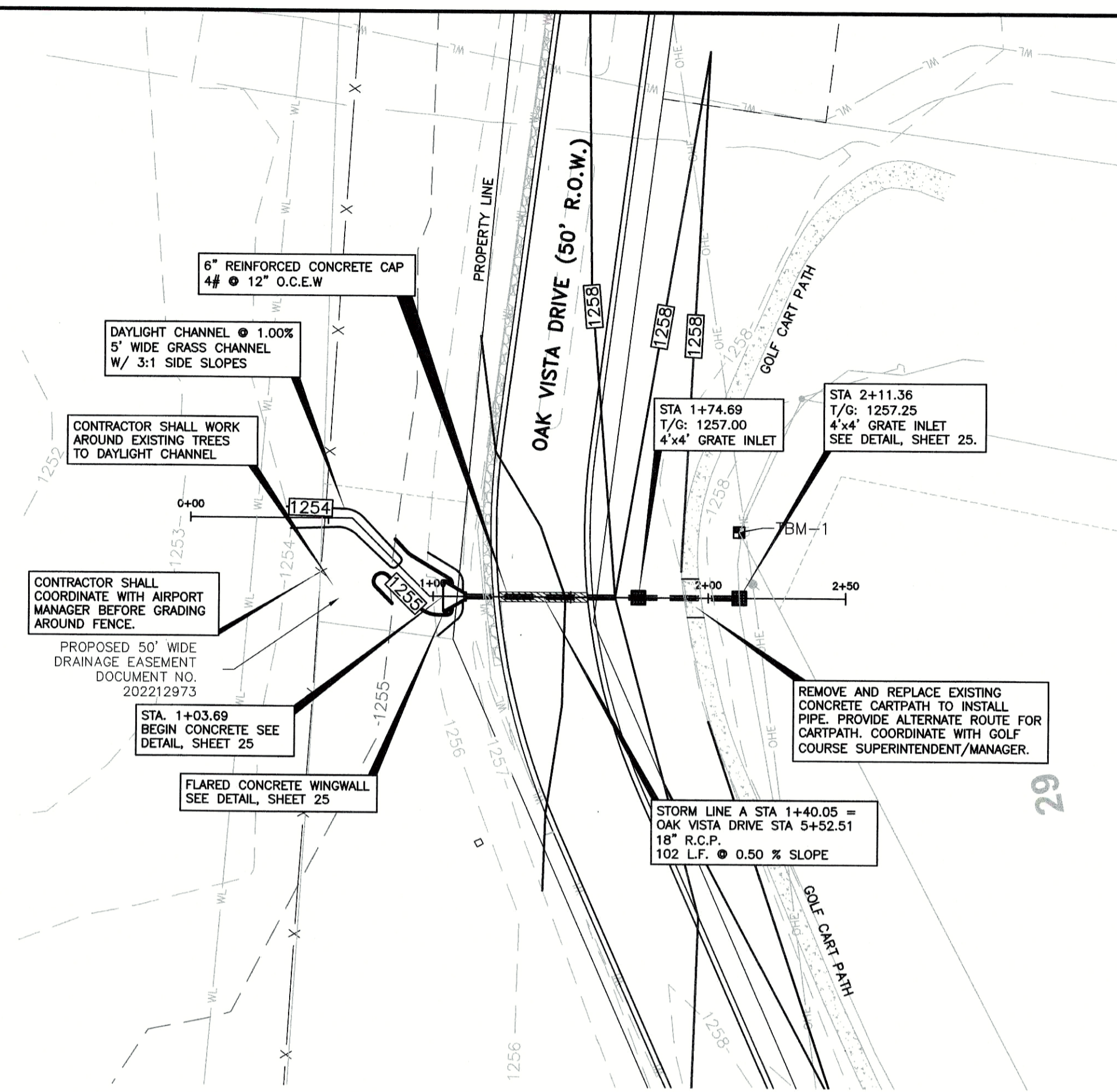


REFLECTIVE PAVEMENT MARKINGS TY I & TY II				
1	2	3	4	5
4" YELLOW SOLID	8" WHITE SOLID	24" WHITE SOLID	ARROW WHITE	WORD WHITE
LF	LF	LF	LF	EA
2,484	150	25	4	2

REFLECTIVE PAVEMENT MARKERS	
6	7
CL B REFLECTIVE TY I-C	CL B REFLECTIVE TY II A-A
EA	EA
16	123

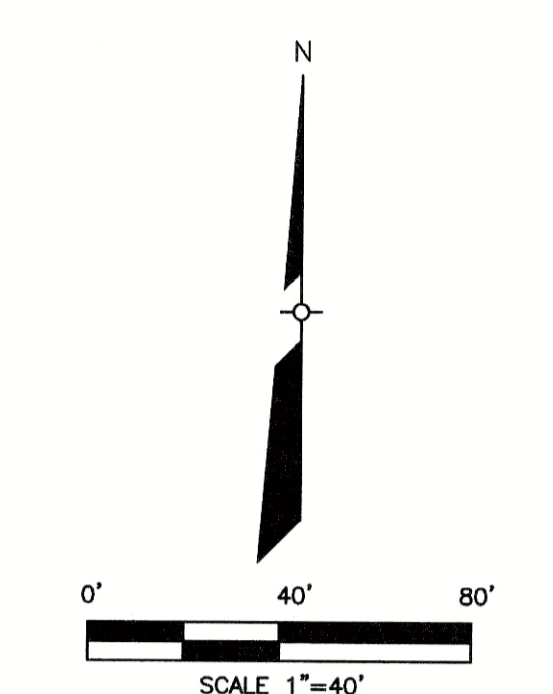
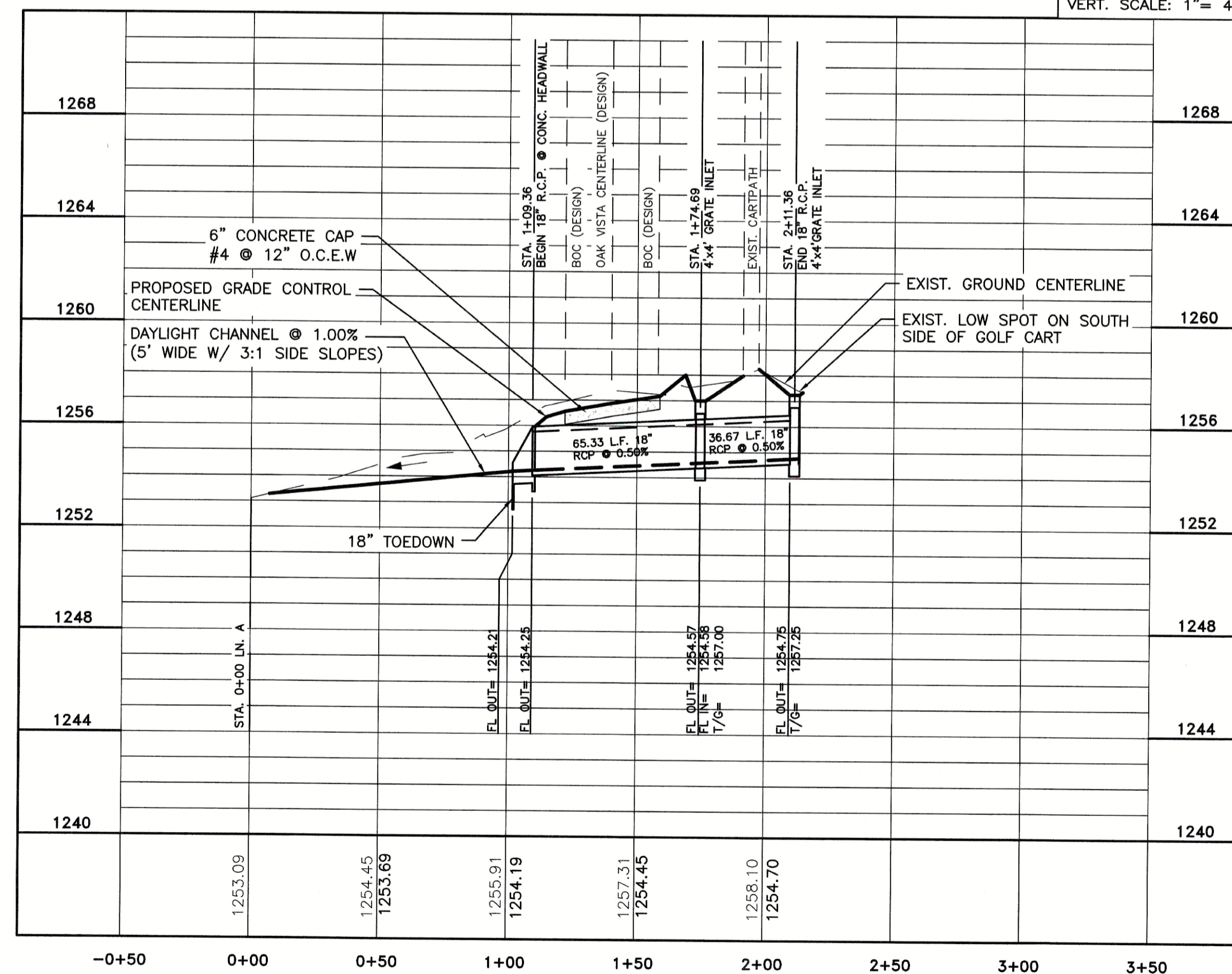
REVISION DESCRIPTION BY: DATE:		<p style="text-align: center;">ACQUATRO Consultants, Registration No. F-5324 120 Kinnick Drive, Suite 208 Phone: (913) 312-8060 Fax: (913) 312-5997 San Marcos, Texas 78666 Email: acquatro@acquatro.com</p>
SIGNAGE AND PAVEMENT STRIPING PLAN OAK VISTA DRIVE STREET AND DRAINAGE IMPROVEMENTS CITY OF BURNET, TEXAS		CITY OF BURNET 1001 BUCHANAN DRIVE, SUITE 4 BURNET, TEXAS 78611
CLIENT:		DATE: SEPTEMBER, 2022
PROJECT: 21-231.27		DRAWING'S NAME: 13-OV-SIGNAGE AND PAVEMENT STRIPING PLAN
DESIGN: KAB		CHECKED: CDE
DRAWN: KAB		APPROVED: HE Jr.
SHEET:		13 OF 25

REFERENCE NOTE:
1. FOR TxDOT PAVEMENT MARKING DETAILS, SEE SHEET 21.



STORM LINE A: 18" R.C.P.
OAK VISTA DRIVE
STATION 5+52.51

HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"= 4'



- LEGEND**
- PROPERTY BOUNDARY
 - - - PROPOSED DRAINAGE EASEMENT
 - PROPOSED LOT LINE
 - 4 LOT NUMBER
 - 5.00 AC. LOT AREA
 - WL WATER LINE
 - FIRE HYDRANT
 - WATER METER
 - WASTEWATER LINE
 - WASTEWATER MANHOLE

- PROFILE LEGEND**
- EXISTING GROUND CENTER
 - EXISTING GROUND LEFT
 - EXISTING GROUND RIGHT
 - PROPOSED GRADE CONTROL CENTERLINE

REVISION

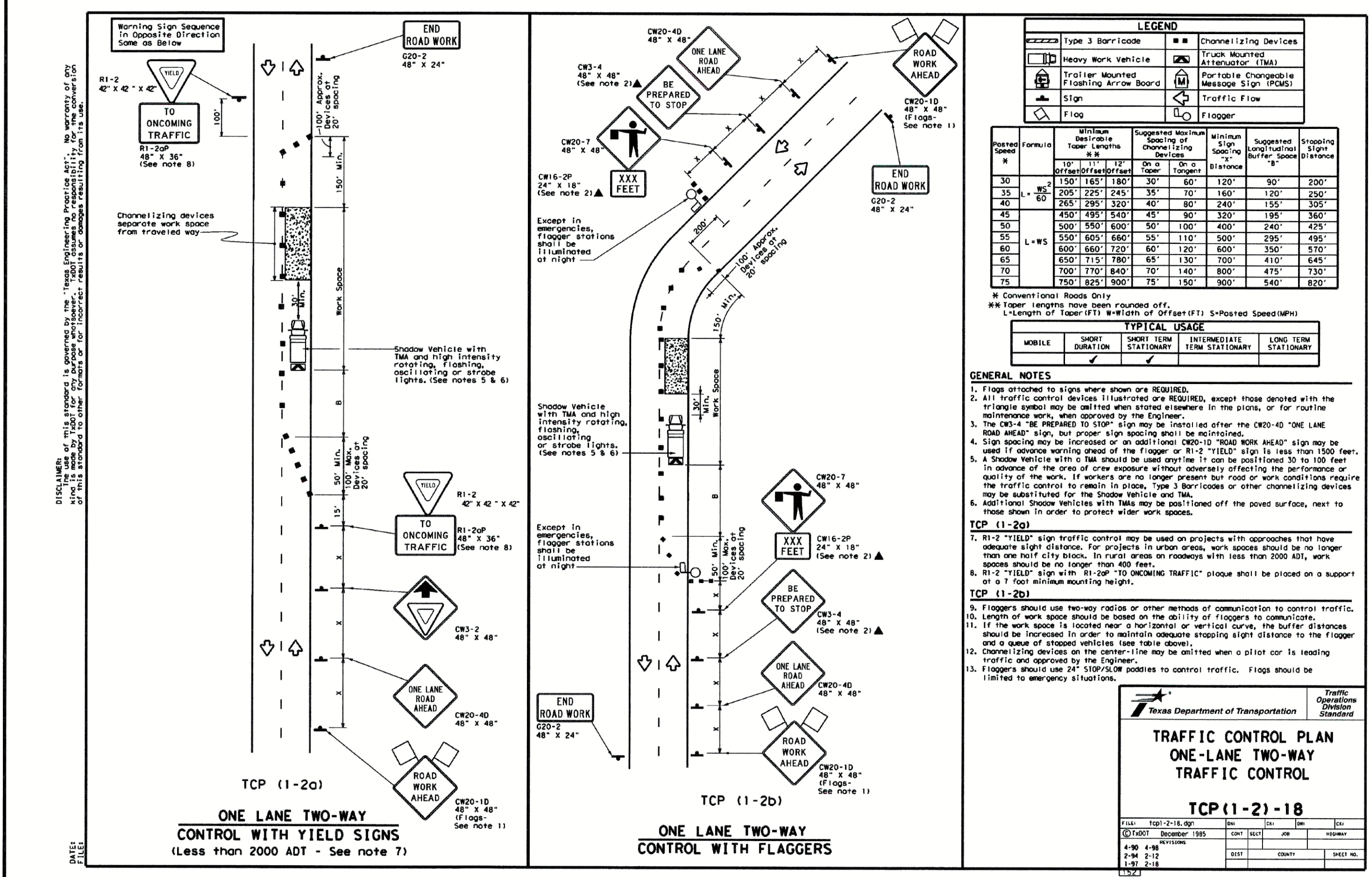
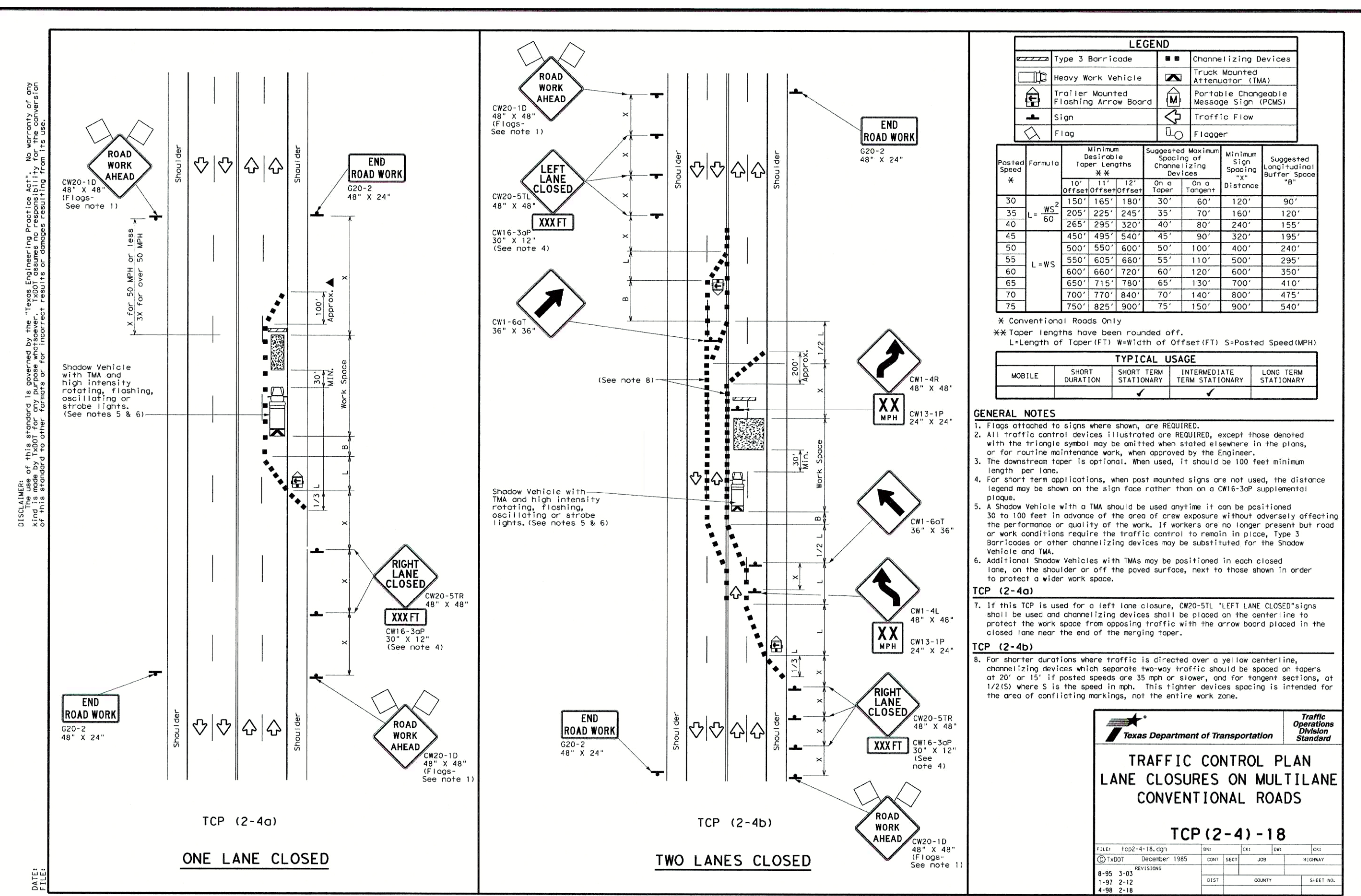
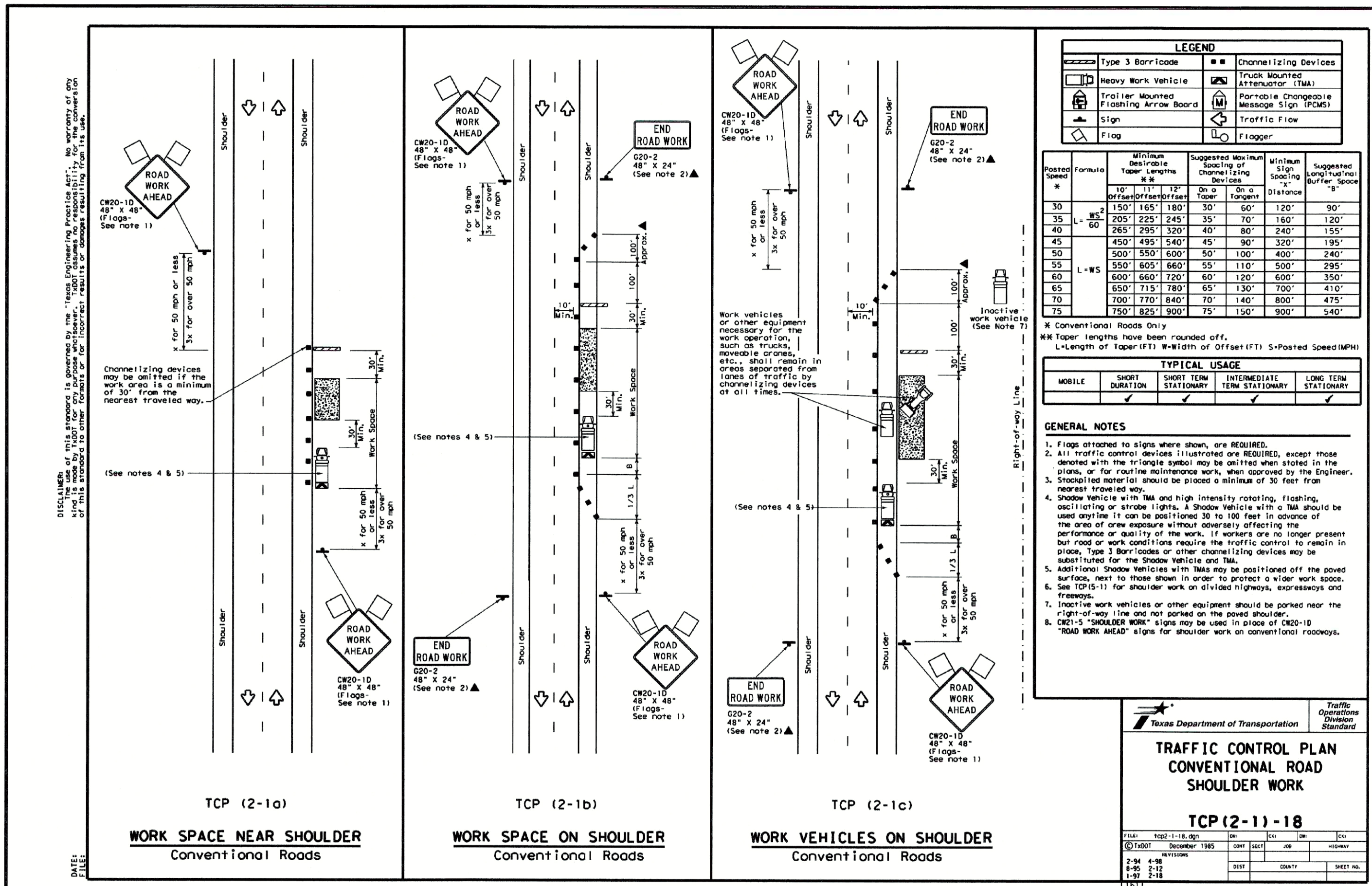
NO.	DESCRIPTION	DATE

4 CUATRO CONSULTANTS, INC.
Registration No. F-5324
129 Reynolds Drive, Suite 208 Phone: (512) 312-6600 Fax: (512) 312-5799
San Marcos, Texas 78666 e-mail: cuatro@cuatrosanmarcos.com

STORM LINE A AND PROFILE STA. 0+00 TO END OAK VISTA DRIVE STREET AND DRAINAGE IMPROVEMENTS CITY OF BURNET, TEXAS

CLIENT:
CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611

DATE: SEPTEMBER, 2022
PROJECT: 21-231.27
DRAWING'S NAME: 14_OV_STORM A 0+00 - END
DESIGN: HE, Jr. CHECKED: CDE
DRAWN: KAB APPROVED: HE Jr.
SHEET: **14 OF 25**



DATE: _____

BY: _____

DESCRIPTION: _____

REVISION: _____

CLIENT: **CITY OF BURNET**

PROJECT: **OAK VISTA DRIVE STREET AND DRAINAGE IMPROVEMENTS**

DRAWING'S NAME: **16_OV_TRAFFIC CONTROL DETAILS**

DESIGN: _____ CHECKED: **CDE**

DRAWN: **CDE** APPROVED: **HE JR.**

SHEET: **16 OF 25**

DATE: **SEPTEMBER, 2022**

PROJECT: **21-231.27**

DRAWING'S NAME: **16_OV_TRAFFIC CONTROL DETAILS**

DESIGN: _____ CHECKED: **CDE**

DRAWN: **CDE** APPROVED: **HE JR.**

SHEET: **16 OF 25**

QUATRO
Consultants, L.P.

Registration No. P-5324

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Email: admin@quattroconsultants.com

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

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

THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT <http://www.txdot.gov>

COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZCVD)
DEPARTMENTAL MATERIAL SPECIFICATIONS LIST
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ON-LINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)
TRAFFIC ENGINEERING STANDARD SHEETS

BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS BC (1) - 21

DATE: 10/15/00

PROJECT: 011001

DATE: 9-07-04

PROJECT: 011001

DATE: 9-13-02

SHEET 1 OF 12

TYPICAL LOCATION OF CROSSROAD SIGNS

T-INTERSECTION

CSJ LIMITS AT T-INTERSECTION

- The Engineer will determine the types and location of any additional traffic control devices, such as flagger and accompanying signs, or other signs, that should be used when work is being performed on or near an intersection.
- If construction takes place on a T-Intersection, the Contractor shall place the CONTRACTOR NAME, (CSJ-47) sign on the T-Block on the road closure side and the ROAD WORK NEXT X MILES (left arrow) (CSJ-16) and "ROAD WORK NEXT X MILES" right arrow (CSJ-17) signs shall be replaced by the detour signing called for in the plans.

WORK AREAS IN MULTIPLE LOCATIONS WITHIN CSJ LIMITS

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT THE CSJ LIMITS

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING DOWNSTREAM OF THE CSJ LIMITS

When extended distances occur between initial work spaces, the Engineer/Inspector should ensure additional "ROAD WORK AHEAD" (CSJ-10) signs are placed in advance of these work areas to remind drivers they are still within the project limits. See applicable TDP sheets for exact location and spacing of work and channelizing devices.

NOTES

- Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
- Wooden sign posts shall be painted white.
- All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and control traffic.
- The Contractor may furnish either the sign design shown in the plans or in the Standard Highway Sign Designs for Texas (SHSD). The responsible Engineer will determine if the sign design shown in the plans is acceptable. Changes to the sign design shall be approved by the Engineer and the Contractor's responsible Engineer. All changes to the sign design shall be documented by written agreement between the Engineer and the Contractor's responsible Engineer. The Contractor shall be responsible for erecting and maintaining the signs, including the removal of signs after the project is complete. The Contractor shall be responsible for repairing damaged signs or equipment. The Contractor shall be responsible for replacing signs with damaged or crossed substrates and/or damaged or crossed substrates shall be replaced by the Contractor. The Contractor shall be responsible for maintaining the signs and equipment in good condition.
- The Contractor shall replace damaged wood posts, new or damaged wood sign posts shall not be applied.

LEGEND

Symbol	Description
—	Type 3 Barricade
○	Channelizing Devices
▲	Sign

BARRICADE AND CONSTRUCTION PROJECT LIMIT BC (2) - 21

DATE: 10/15/00

PROJECT: 011001

DATE: 9-07-04

PROJECT: 011001

DATE: 9-13-02

SHEET 2 OF 12

TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

Work zone speed limits shall be regulatory, established in accordance with the "Procedures for Establishing Speed Zones," and approved by the Texas Transportation Commission, or City Ordinance when within Incorporated City Limits.

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project. Regulatory work zone speed signs (R2-1) shall be removed or covered during periods when not needed.

GUIDANCE FOR USE:

LONG/INTERMEDIATE TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit shall be included on the design of the traffic control plans when restricted geometrics with a lower design speed are present in the work zone and modification of the geometrics to a higher design speed is not feasible.

Long/Intermediate Term Work Zone Speed Limit signs, when approved as described above, should be posted and visible to the motorist when work activity is present. Work activity may also be defined as a change in the roadway that requires a reduced speed for motorists to safely negotiate the work area, including:
a) rough road or damaged pavement surface
b) substantial alteration of roadway geometrics (alterations)
c) construction detours
d) grade
e) width
f) other conditions readily apparent to the driver

As long as any of these conditions exist, the work zone speed limit signs should remain in place.

SHORT TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit may be included on the design of the traffic control plans when workers or equipment are not behind concrete barrier, when work activity is within 10 feet of the traveled way or actually in the traveled way.

Short Term Work Zone Speed Limit signs should be posted and visible to the motorists only when work activity is present. When work activity is not present, signs shall be removed or covered.
(See Rerouting or Covering on BC(4)).

GENERAL NOTES

- Regulatory work zone speed limits should be used only for sections of construction projects where speed control is of major importance.
- Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
- Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
- Frequency of work zone speed limit signs should be:
a) 40 mph and greater: 0.2 to 2 miles
b) 35 mph and less: 0.2 to 1 mile
- Regulatory speed limit signs shall have black legend and border on a white reflective background (See "Reflective Sheetings" on BC(4)).
- Fabrication, erection and maintenance of the "ADVANCE SPEED LIMIT" (R2-1) sign, "WORK ZONE (G20-5P) plaque and the "SPEED LIMIT" (R2-1) signs shall not be paid for directly, but shall be considered subsidiary to Item 503.
- Turning signs from view, laying signs over or down will not be allowed, unless as otherwise noted under "REMOVING OR COVERING" on BC(4).
- Techniques that may help reduce traffic signs include but are not limited to:
A. Low enforcement.
B. Flagger stationed next to sign.
C. Portable changeable message sign (PCMS).
D. Low power (dome) road transmitter.
E. Speed monitor trailers or signs.
- Speed signs on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
- For more specific guidance concerning the type of work, work zone conditions and factors impacting (a) speed regulatory construction speed zone reduction see "ADVISORY SPEED LIMITS" in the TMUTCD Form system.

BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT BC (3) - 21

DATE: 10/15/00

PROJECT: 011001

DATE: 9-07-04

PROJECT: 011001

DATE: 9-13-02

SHEET 3 OF 12

TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS

ATTACHMENT FOR SIGN SUPPORTS

Attachment to wooden supports will include use of wood screws or bolts, use of 1/4" x 2" x 8" screws, or use of manufacturer's recommended procedure for attaching sign supports to other types of sign supports.

Attachment to wooden supports will include use of wood screws or bolts, use of 1/4" x 2" x 8" screws, or use of manufacturer's recommended procedure for attaching sign supports to other types of sign supports.

NOTES

- Sign supports shall extend more than 1/2 way up the back of the sign substrate.
- Sign supports shall not protrude above sign.
- Sign supports shall not be joined or spliced by any means. Wood supports shall not be extended or repaired by splicing or other means.

SHEETING REQUIREMENTS (WHEN USED AT NIGHT)

BACKGROUND	LEGEND & BORDER	USE	COLOR	SIGN FACE MATERIAL
BACKGROUND	RED	TYPE B OR C SHEETING		
LEGEND & BORDER	WHITE	TYPE B OR C SHEETING		
LEGEND & BORDER	BLACK	ACRYLIC NON-REFLECTIVE FILM		

STOP/SLOW PADDES

1. STOP/SLOW padde is the primary method to control traffic by flaggers. The STOP/SLOW padde size shall be 24" x 24".
2. STOP/SLOW padde shall be retroreflective when used at night.
3. STOP/SLOW padde may be attached to a staff with a minimum length of 1/2" to the bottom of the sign.
4. Any lights incorporated into the STOP or SLOW padde faces shall only be as specifically described in Section 66.03 Head Signaling Devices in the TMUTCD.

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

- Permanent signs are used to give notice of traffic laws or regulations, call attention to conditions that are potentially hazardous to traffic operations, and other signs that are used to provide information to the traveling public. Interest, and other geographical, recreational, specific service (ADVISORY), or cultural information. Signs providing advance notice of work shall be the same. If not better route guidance is specifically installed on a roadway without Head Signaling Devices in the TMUTCD.
- When permanent regulatory or warning signs conflict with work zone conditions, remove or cover the permanent sign until the permanent sign message notifies the roadway ahead. For details for covering long term signs see the 75-CD Standards.
- When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists at all times.
When existing signs are relocated on median or shoulder, they shall be installed on orthometry bases as shown on the 540 Standards sheets. The signs shall meet the required mounting heights shown on the 540 Standards sheets during construction. This work should be paid for under the appropriate pay item for relocating existing signs.
- If permanent signs are to be removed and relocated using temporary supports, the Contractor shall use orthometry supports as shown on the 540 Standards sheets, plus standard sheets or the 540 Standards sheets. The signs shall meet the required mounting heights shown on the 540 Standards sheets during construction. This work should be paid for under the appropriate pay item for relocating existing signs.
- If any sign or traffic control device that is struck or damaged by the Contractor or another construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorists. This will be subsidiary to Item 506.

SIGN MOUNTING HEIGHT

- The bottom of long-term/intermediate-term sign shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for additional placement heights noted below other signs.
- The bottom of short-term/sign shall be a minimum of 1 foot above the paved surface but not more than 2 feet above 1 foot above the paved surface.
- Intermediate-term signs may be used in lieu of short-term/sign.
- Long-term/sign shall be used to regulate traffic for more than 3 days.
- Short-term/sign shall be used to regulate traffic for more than 1 hour in a single daylight period.
- Short-term/sign shall be used continuously or intermittently (staggered) for up to approximately 15 minutes.

SIGN SUBSTRATE

- The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The TMUTCD lists each substrate that can be used on the different types and models of sign supports.
- "Wen" type materials are NOT on approved sign substrates, regardless of the thickness of the web.
- All wooden individual sign panels fastened from 2 or more places shall have one or more pre-drilled, 1/2" x 1/2" x 8" wide, fasteners to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6 inches. The Engineer may approve other methods of fastening the sign.

REMOVING OR COVERING

- Sign messages shall be continuing or do not apply, the signs shall be removed or completely covered.
- Long-term/sign or intermediate/sign shall be removed or covered as soon as traffic is cleared from the work zone and the sign message is not applicable. This message may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from opposing traffic.
- Signs installed on wooden skids shall not be turned on 90 degrees to the roadway. These signs should be removed or completely covered when not required.
- When installing the material used shall be smooth, such as heavy mill plastic, or other materials which will cover the entire sign face and maintain their appearance under automobile headlights at night, without damaging the sign sheeting.
- Signs shall not be used to cover or obscure other signs.
- Signs shall be removed or covered as soon as traffic is cleared from the work zone.

SIGN SUPPORT HEIGHTS

- All signs messages shall be continuing or do not apply, the signs shall be removed or completely covered.
- Signs shall be removed or completely covered as soon as traffic is cleared from the work zone and the sign message is not applicable. This message may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from opposing traffic.
- Signs installed on wooden skids shall not be turned on 90 degrees to the roadway. These signs should be removed or completely covered when not required.
- When installing the material used shall be smooth, such as heavy mill plastic, or other materials which will cover the entire sign face and maintain their appearance under automobile headlights at night, without damaging the sign sheeting.
- Signs shall not be used to cover or obscure other signs.
- Signs shall be removed or covered as soon as traffic is cleared from the work zone.

FLATS ON SIGNS

- Flats may be used to draw attention to warning signs. When used, the flat shall be 1/4 inch square or larger and shall not be painted or fluorescent in color. Flats shall not be allowed to cover any portion of the sign face.

DATE: SEPTEMBER, 2022

PROJECT: 21-231.27

DRAWING'S NAME: 17-19_OV_BARRICADE AND CHANNELIZING DEVICES

DESIGN: CDE

CHECKED: CDE

DRAWN: HE JR.

APPROVED: HE JR.

SHEET: 17 OF 25

CLIENT: BURNETT, TEXAS

1001 BUCHANAN DRIVE, SUITE 4 BURNETT, TEXAS 78611

REGISTRATION NO. T-57924
1520 Newsmark Drive, Suite 208 Burnet, Texas 78611
CHM PROJECTS, LLC
PHONE: 817-312-1400 FAX: 817-312-1539
EMAIL: contact@chmprojects.com

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES DETAILS 1 OF 3

OAK VISTA DRIVE STREET AND DRAINAGE IMPROVEMENTS CITY OF BURNETT, TEXAS

BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES BC (4) - 21

DATE: 10/15/00

PROJECT: 011001

DATE: 9-07-04

PROJECT: 011001

DATE: 9-13-02

SHEET 4 OF 12

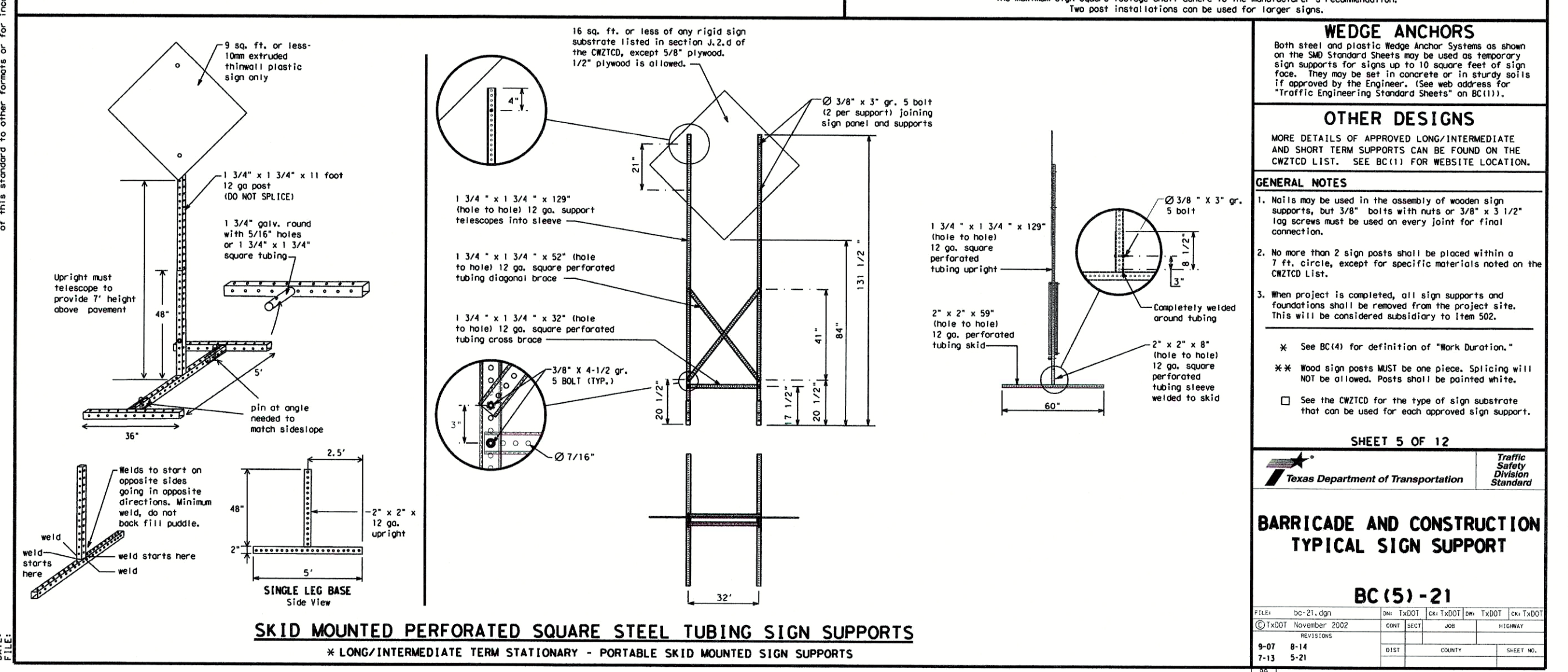
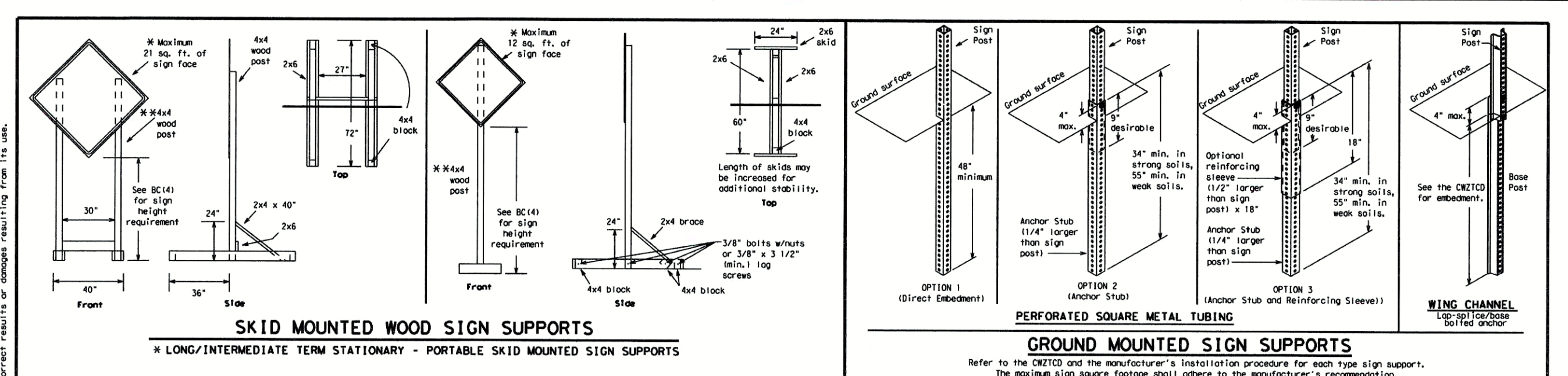
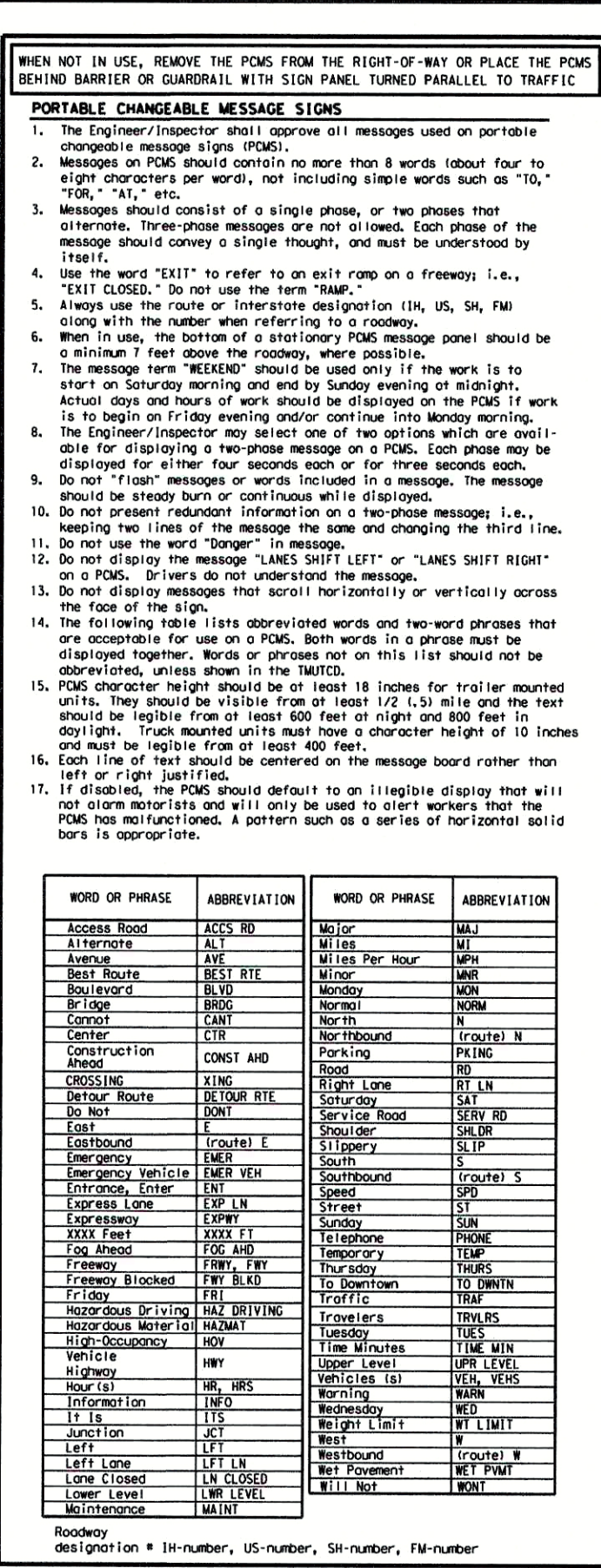


Table with 4 columns: WORD OR PHRASE, ABBREVIATION, WORD OR PHRASE, ABBREVIATION. Lists standard traffic signs and their abbreviations used in the message lists.

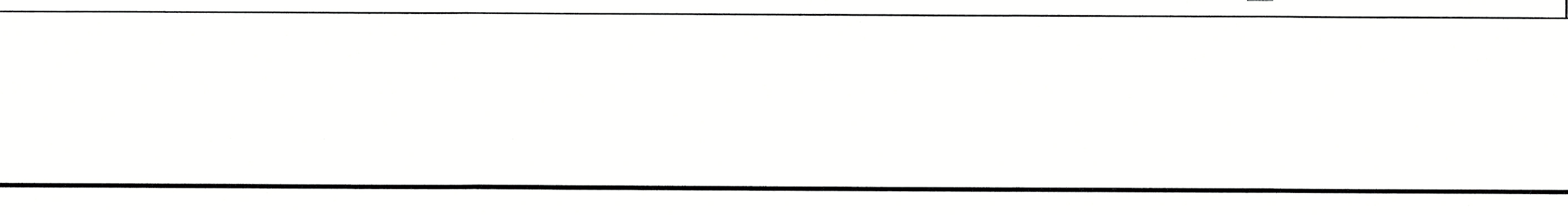
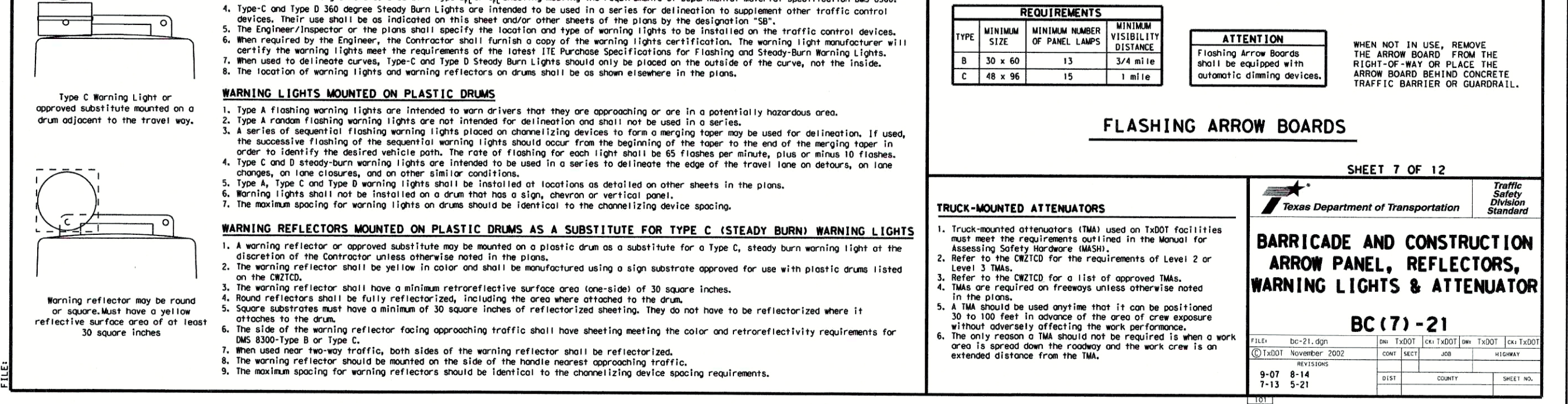
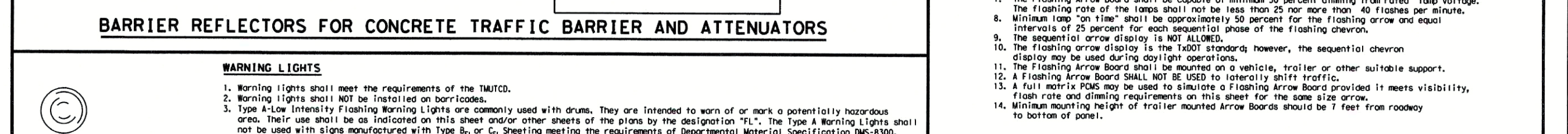
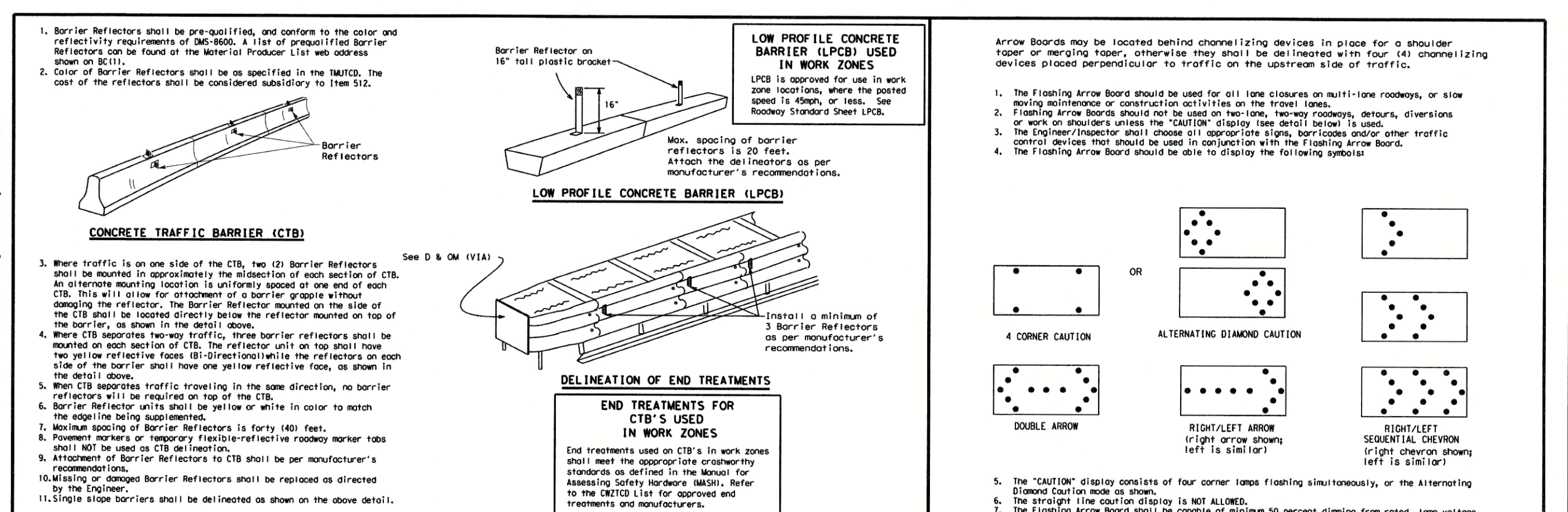
DISCLAIMER: The user of this manual is advised that the Texas Department of Transportation is not responsible for any errors or omissions in this manual. It is the responsibility of the user to verify the accuracy of the information contained herein.



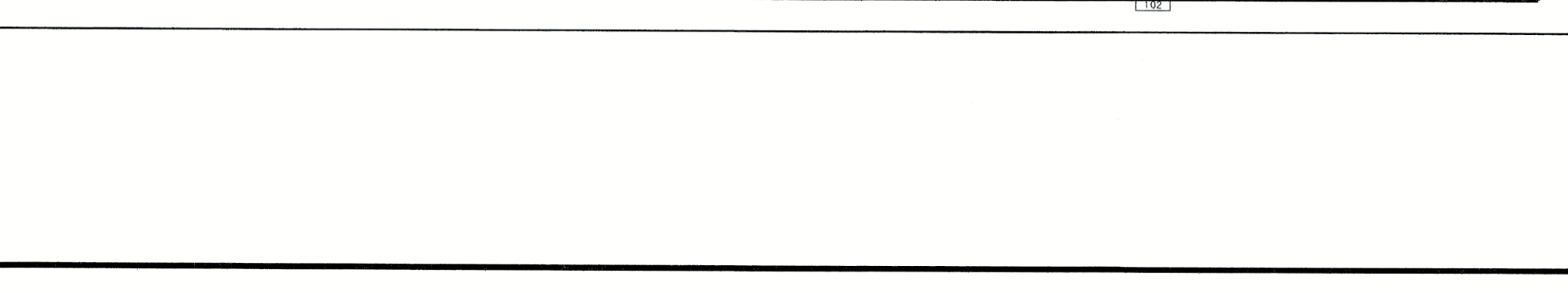
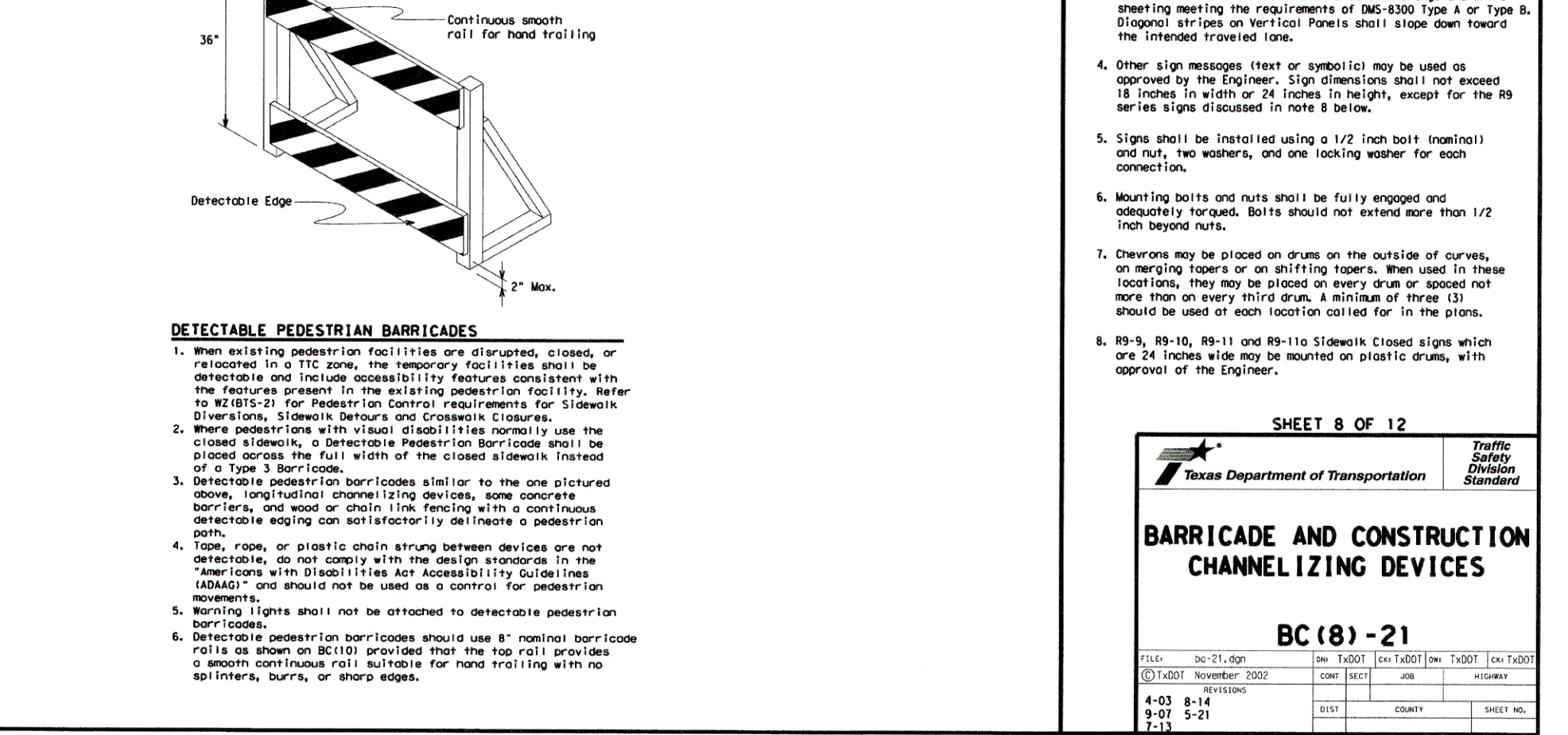
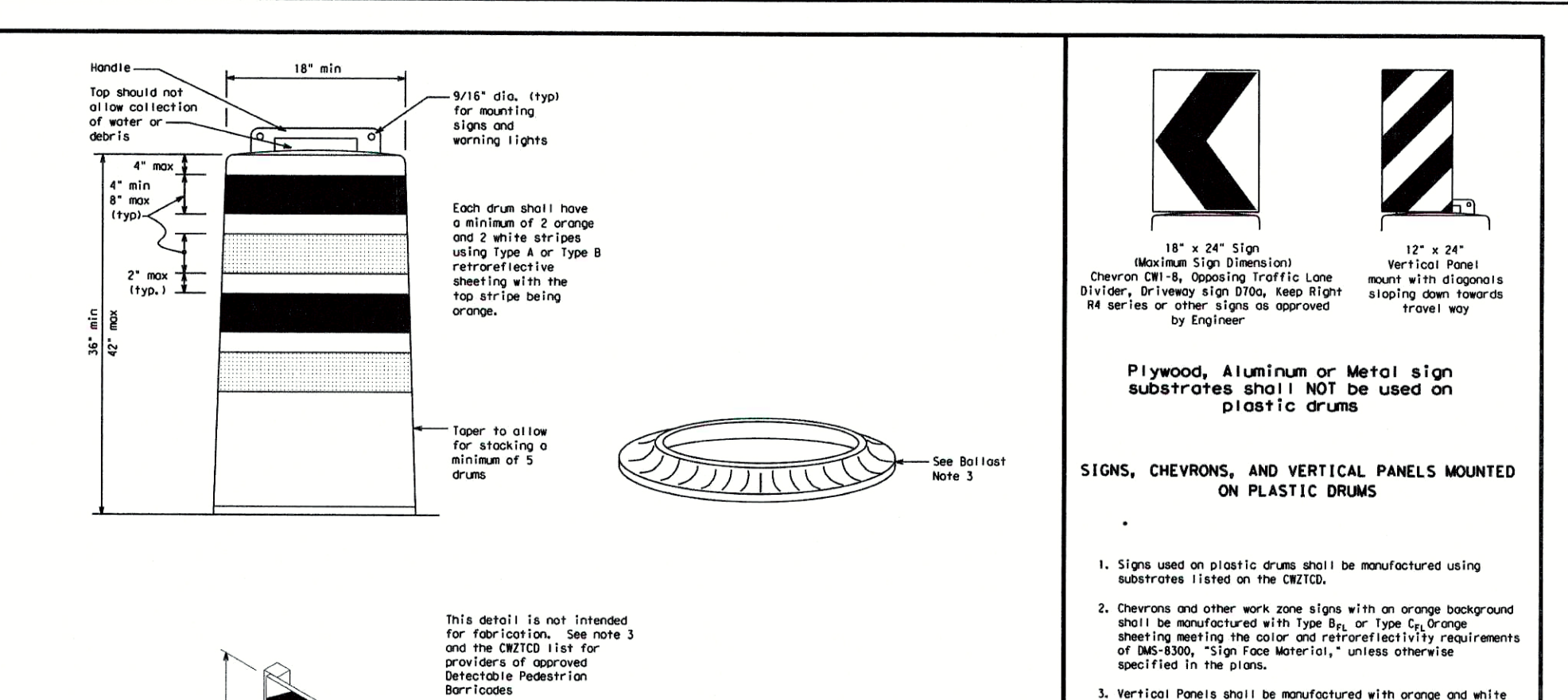
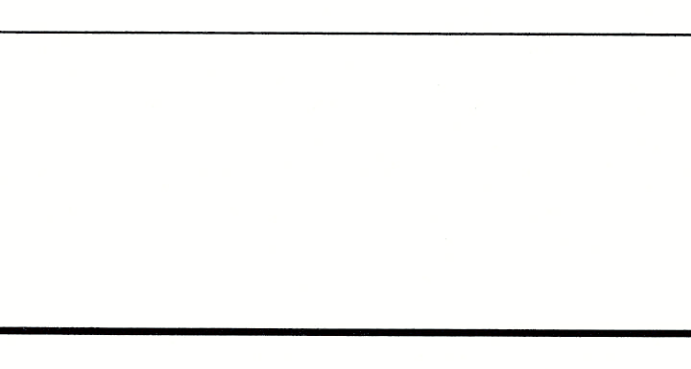
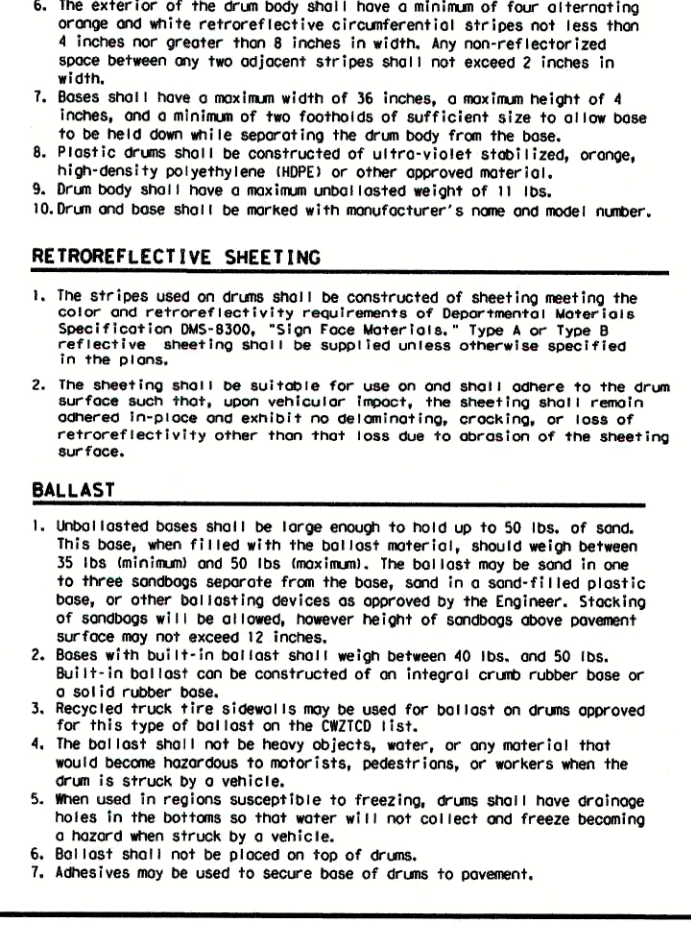
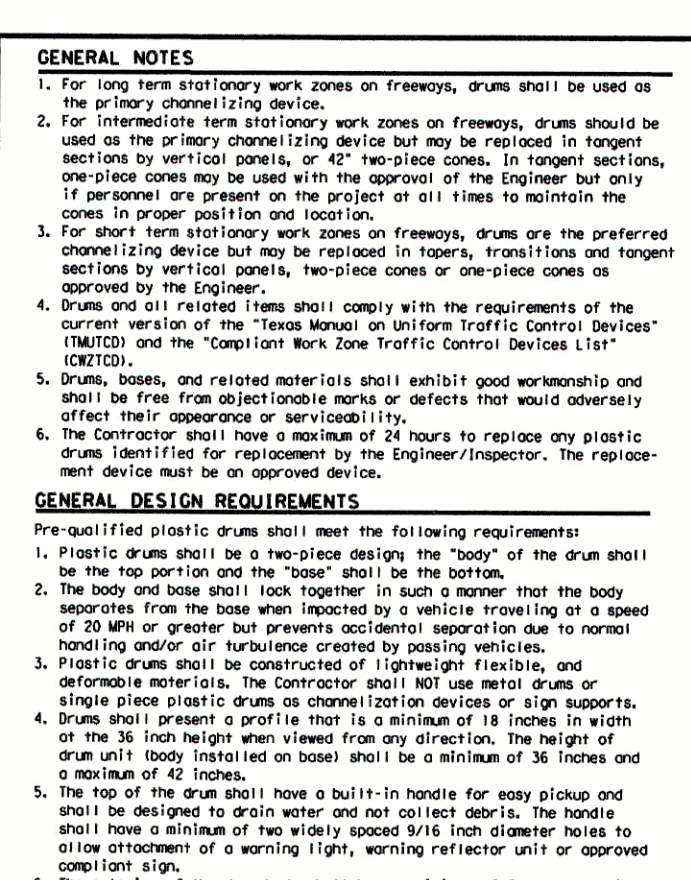
RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

Table with 4 columns: Phase 1: Condition Lists, Phase 2: Possible Component Lists, Action to Take/Effect on Travel, Location List. Provides detailed instructions for setting up portable changeable message signs during roadwork, including recommended phases and formats for various conditions.

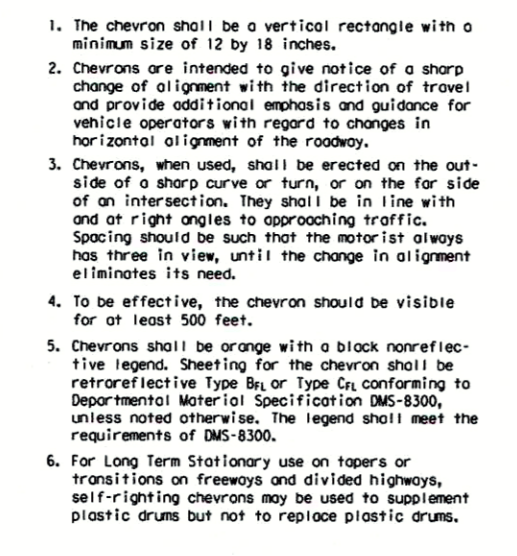
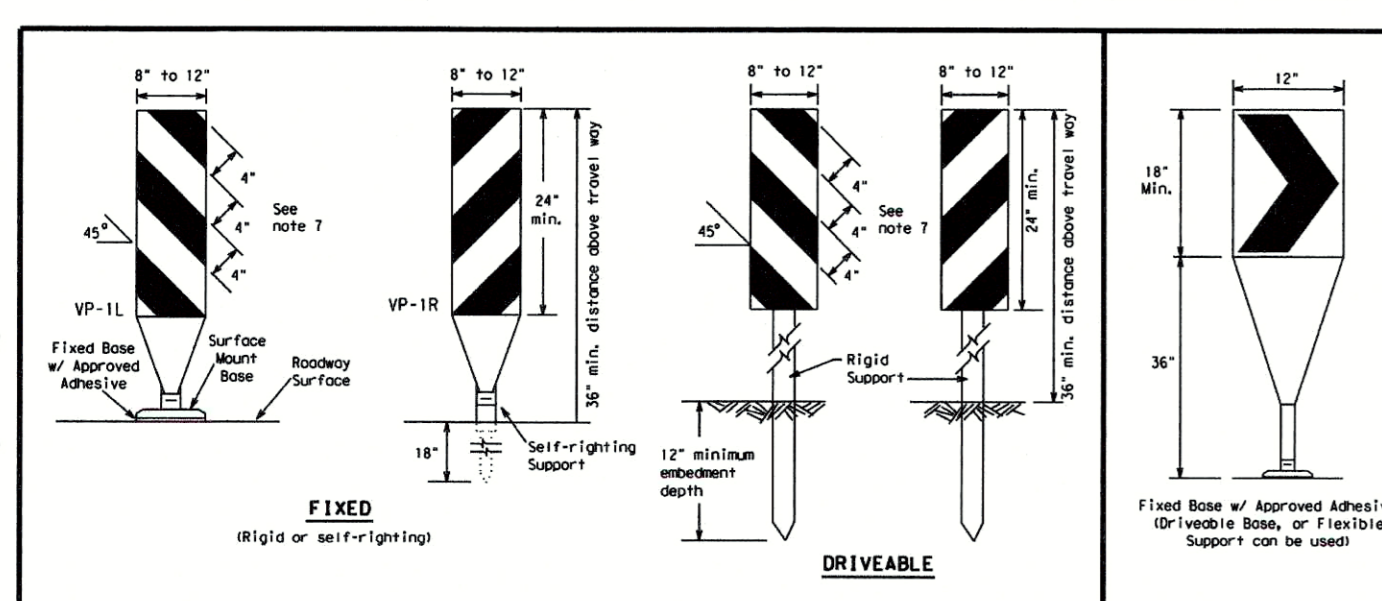
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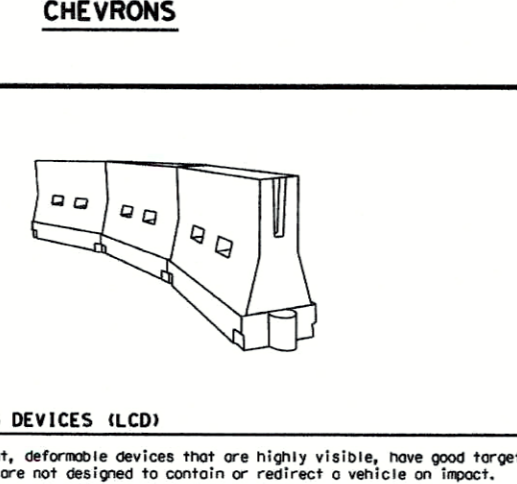
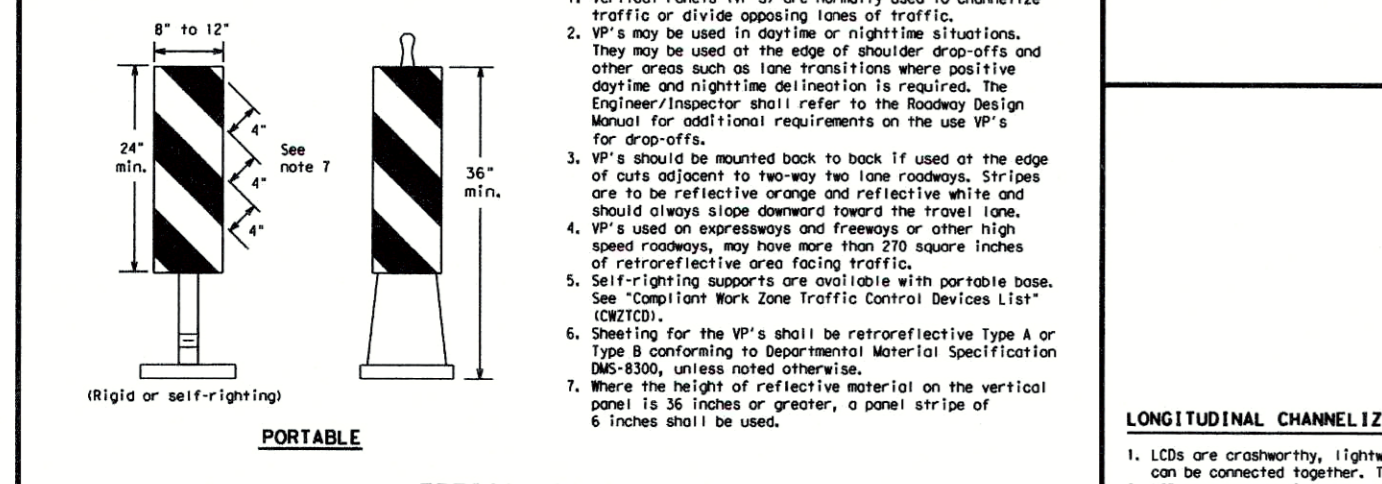


Professional seal and contact information for ACQUARO CONSULTANTS, L.P. The seal is circular and contains the text 'ACQUARO CONSULTANTS, L.P. PROFESSIONAL ENGINEERING' and 'REGISTRATION NO. 13524'. Below the seal is the company name and address: '1001 BUCHANAN DRIVE, SUITE 400, BURNET, TEXAS 78611'. The date is 'SEPTEMBER, 2022' and the drawing number is '17-19_OV_BARRICADE AND CHANNELIZING DEVICES'. The sheet number is '18 OF 25'.



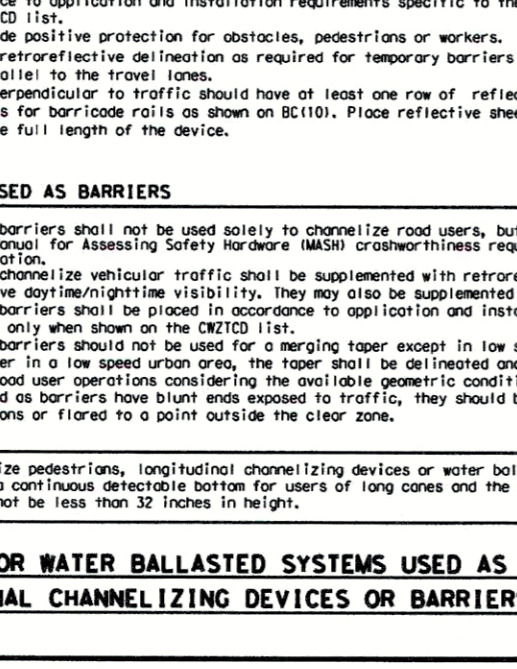
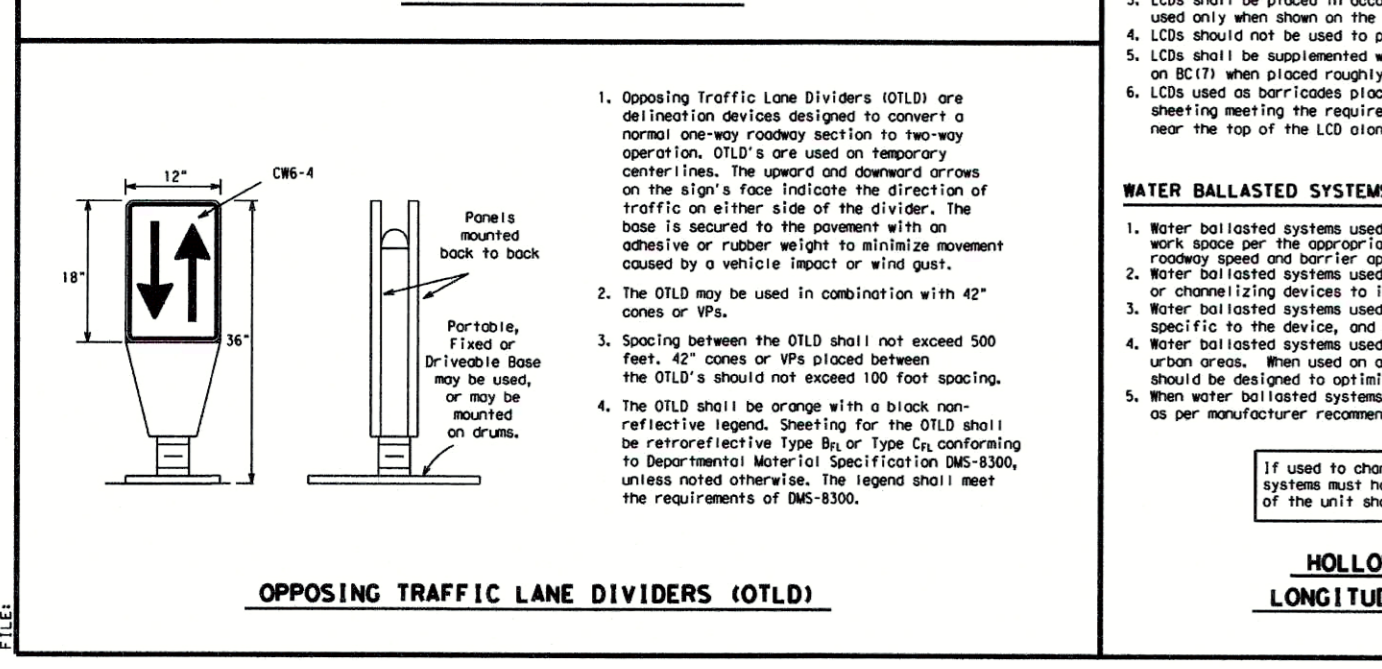
CHEVRONS

- The chevron shall be a vertical rectangle with a width of 12 inches and a height of 36 inches.
- Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to direction of travel.
- Chevrons, when used, shall be erected on the outside of a sharp curve or on the right side of an intersection. They shall be in line with and on the right side of the roadway.
- Chevrons shall be spaced at intervals of 30 feet. Spacing shall be such that the chevrons always have two in view, until the change in alignment stabilizes its need.
- To be effective, the chevron should be visible for at least 300 feet.
- Chevrons shall be orange with a black non-reflective top and bottom surface. They shall be retroreflective Type III or Type IV conforming to Departmental Material Specification DM-8300, unless noted otherwise. The legend shall meet the requirements of DM-8300.
- For Long Term Stationary use on topers or transoms on freeways and divided highways, self-lighting chevrons may be used to supplement plastic drums but not to replace plastic drums.



SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

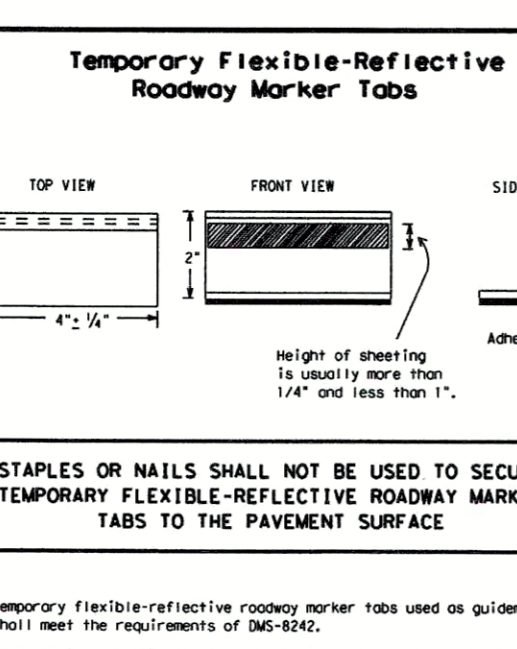
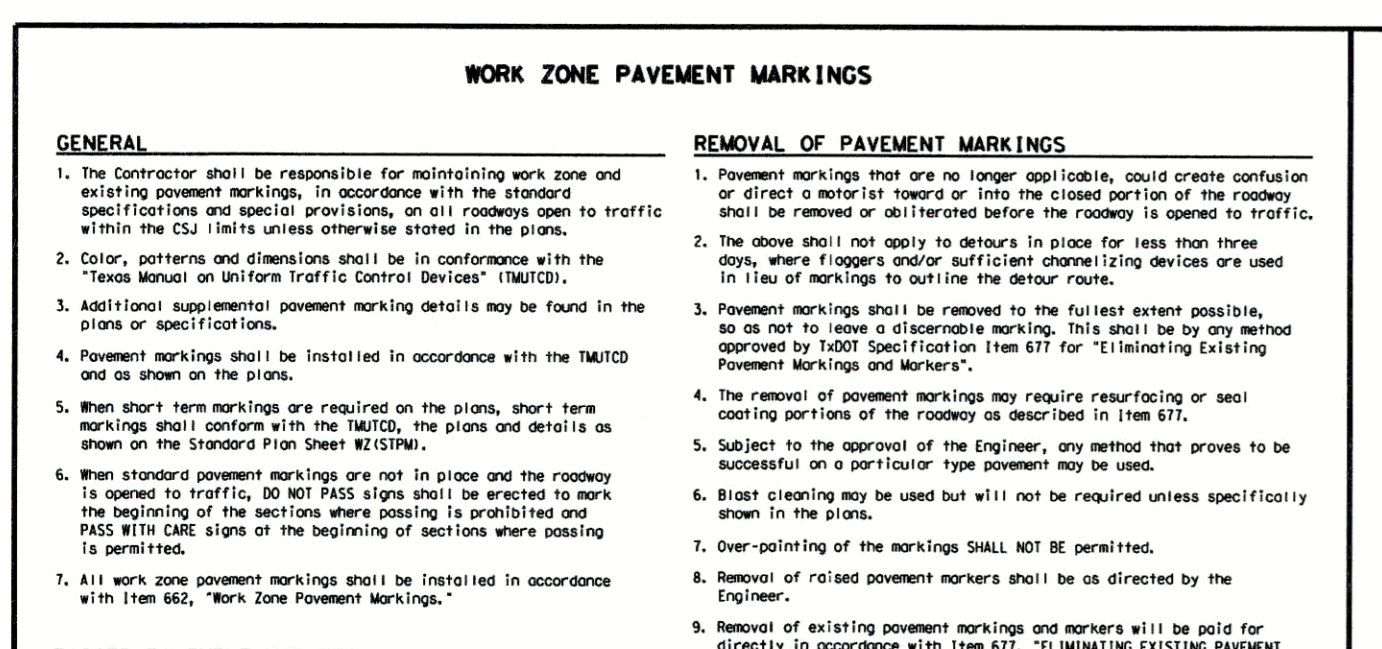
Posted Speed	Formulas	Minimum Taper Lengths	Suggested Maximum Spacing of Channelizing Devices
30	$100 \sqrt{11}$	150'	30'
35	$100 \sqrt{11}$	165'	35'
40	$100 \sqrt{11}$	180'	40'
45	$100 \sqrt{11}$	195'	45'
50	$100 \sqrt{11}$	210'	50'
55	$100 \sqrt{11}$	225'	55'
60	$100 \sqrt{11}$	240'	60'
65	$100 \sqrt{11}$	255'	65'
70	$100 \sqrt{11}$	270'	70'
75	$100 \sqrt{11}$	285'	75'
80	$100 \sqrt{11}$	300'	80'



BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

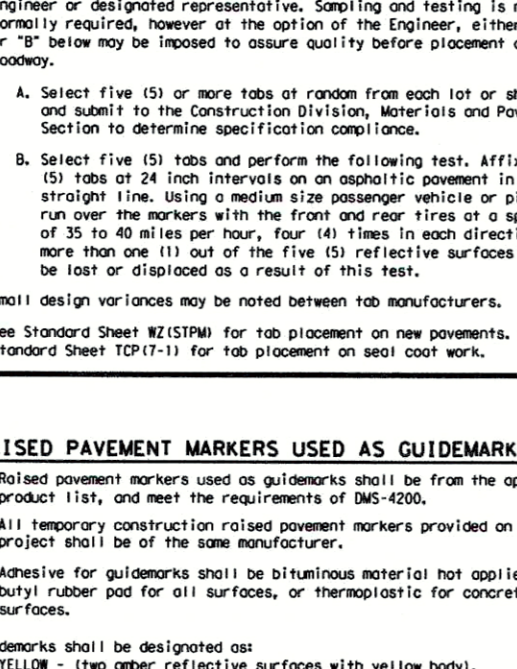
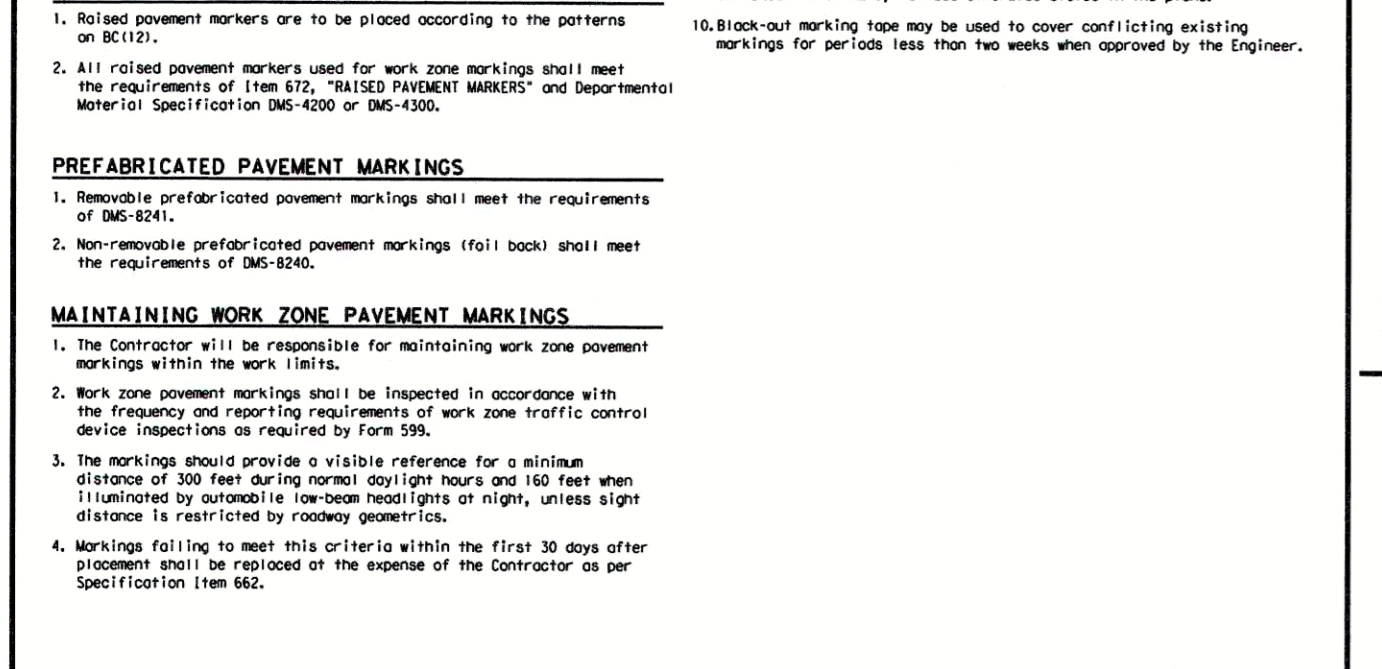
BC (9) - 21

Item	Description	Quantity	Unit
1	36\"/>		



DEPARTMENTAL MATERIAL SPECIFICATIONS

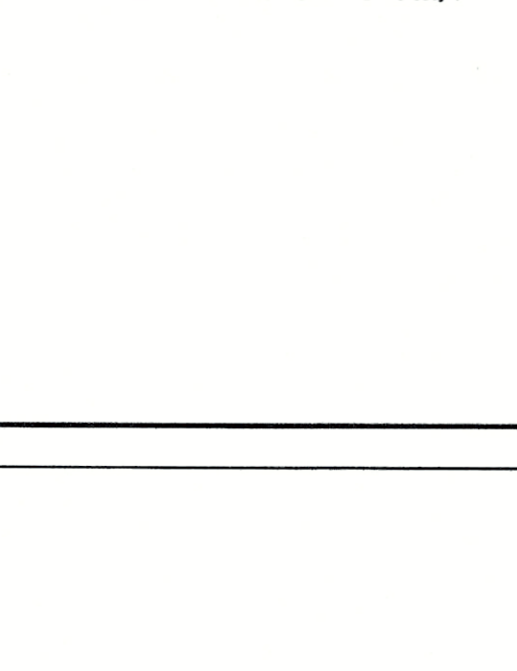
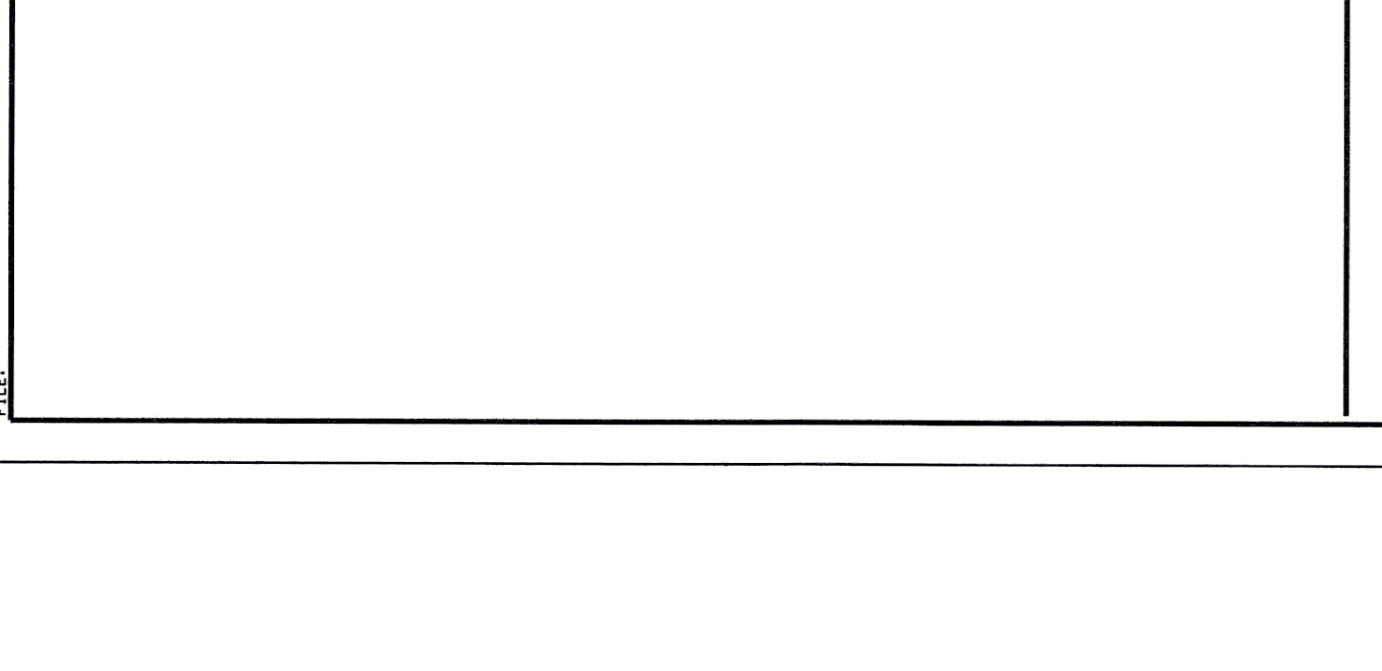
Item	Description	Specification
1	PAVEMENT MARKERS (REFLECTORIZED)	DM-4200
2	TRAFFIC BUTTONS	DM-4300
3	EPoxy AND ADHESIVES	DM-6100
4	BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DM-6130
5	PERMANENT PREFABRICATED PAVEMENT MARKERS	DM-8240
6	TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKERS	DM-8241
7	TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS	DM-8242



BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

BC (11) - 21

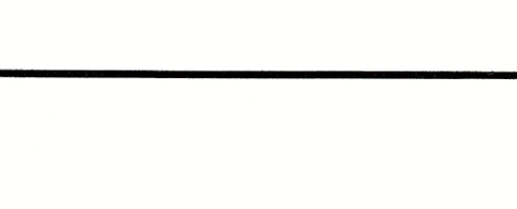
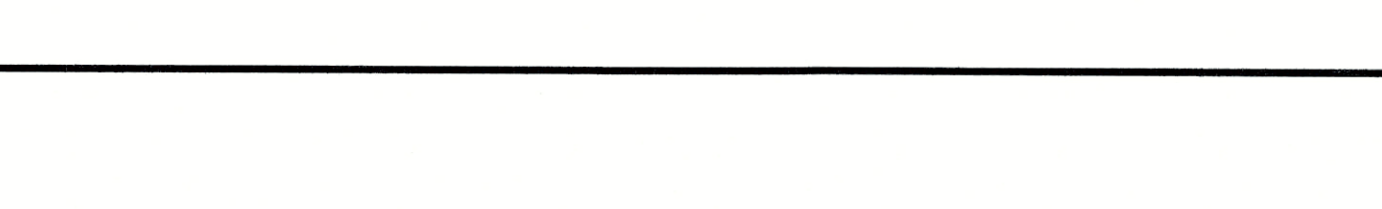
Item	Description	Quantity	Unit
1	36\"/>		



BARRICADE AND CONSTRUCTION PAVEMENT MARKING PATTERNS

BC (12) - 21

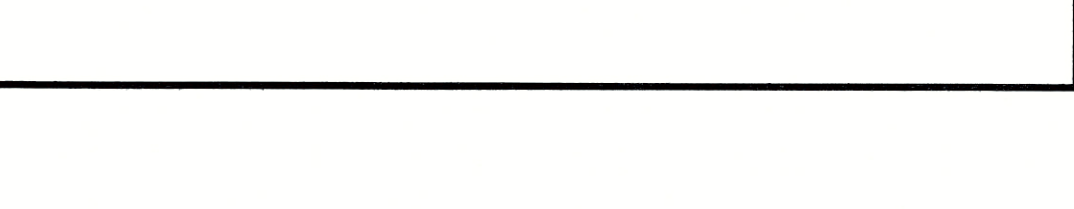
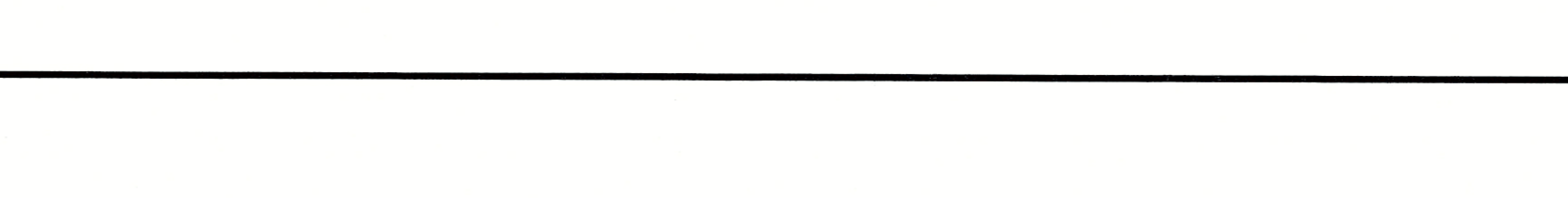
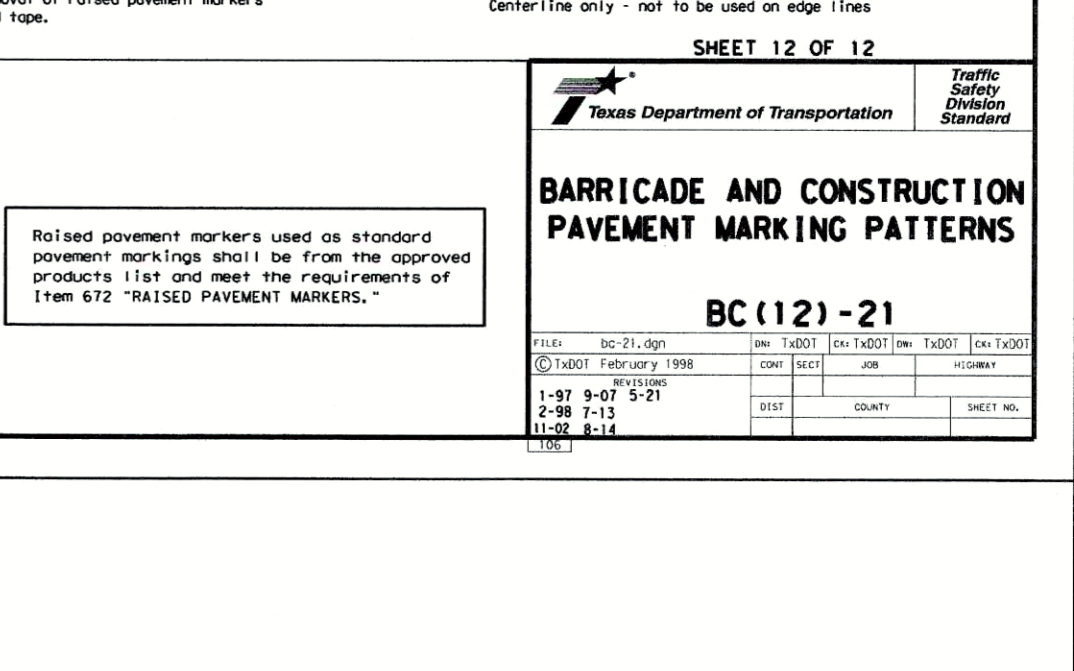
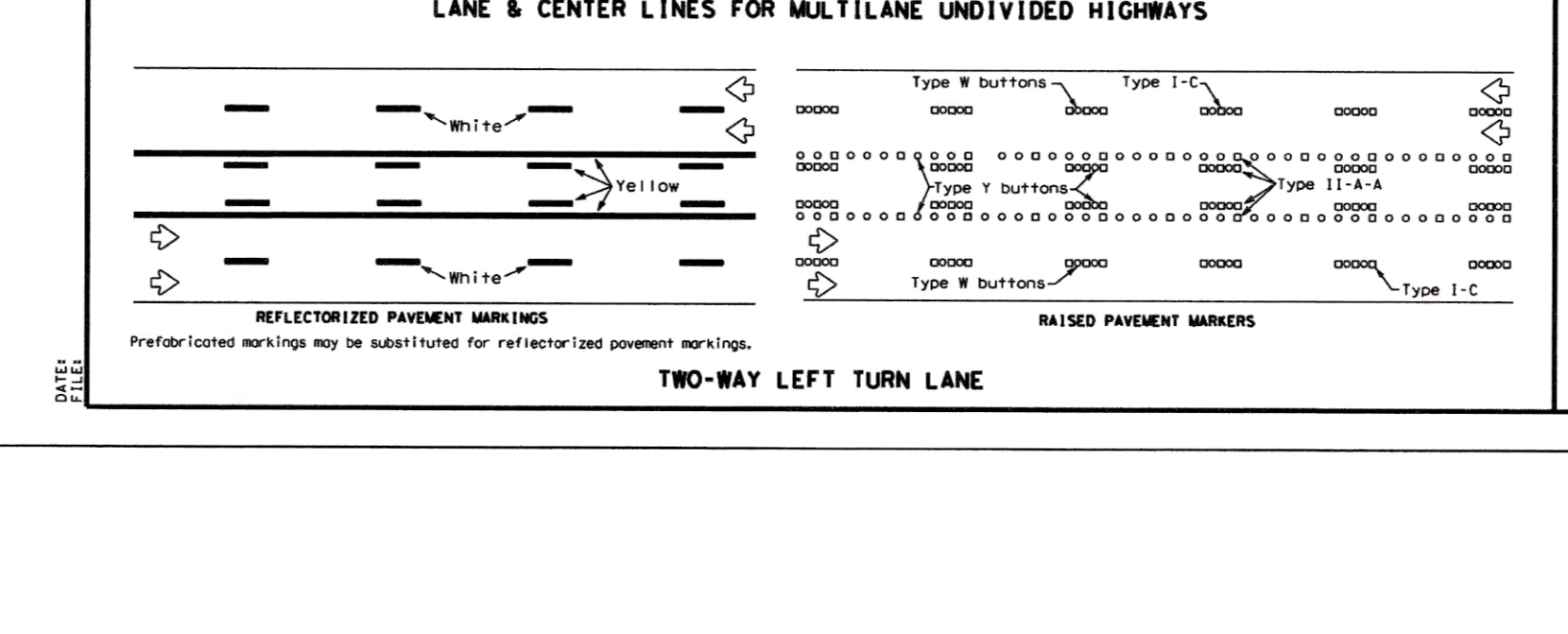
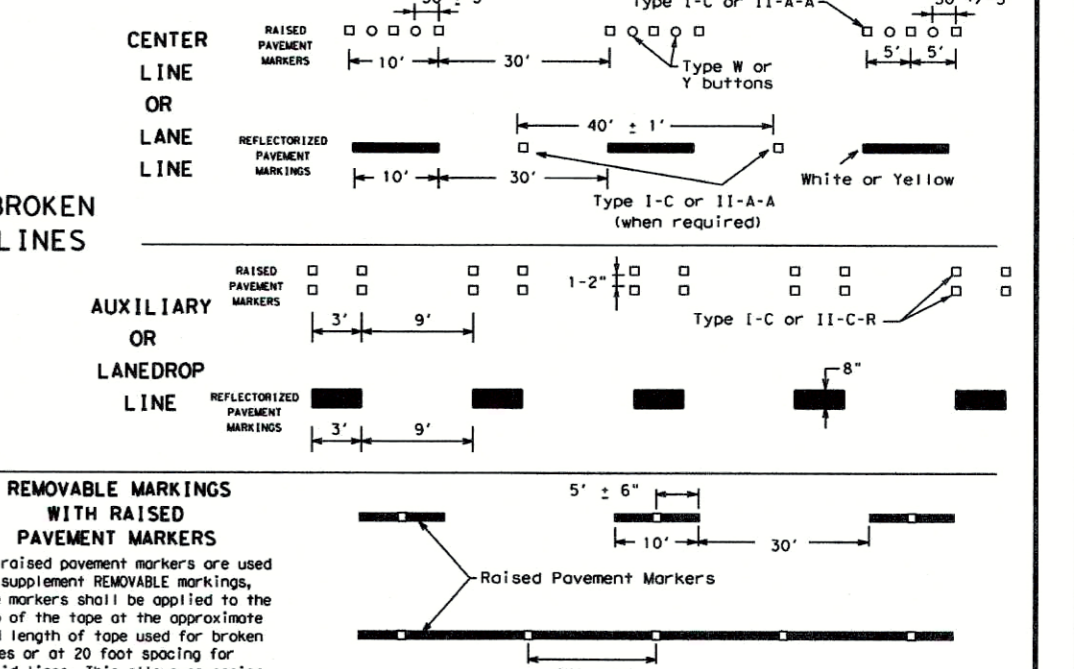
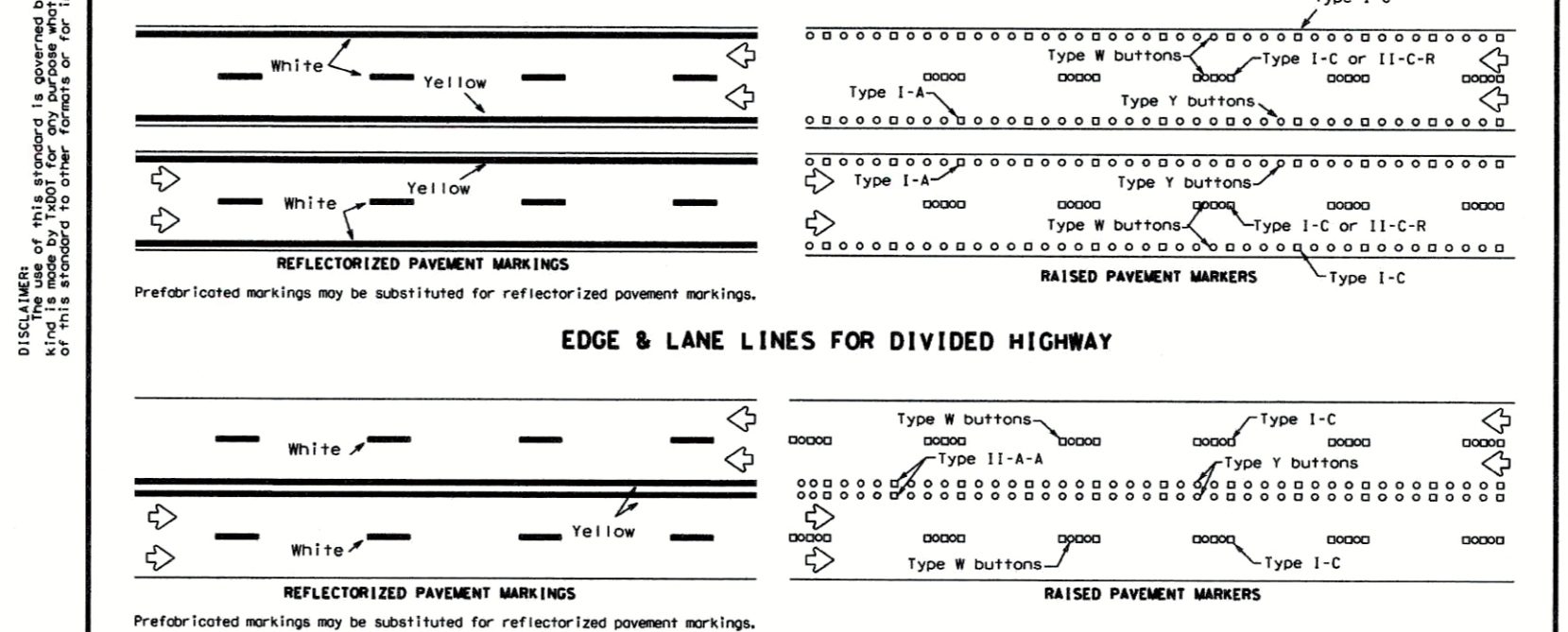
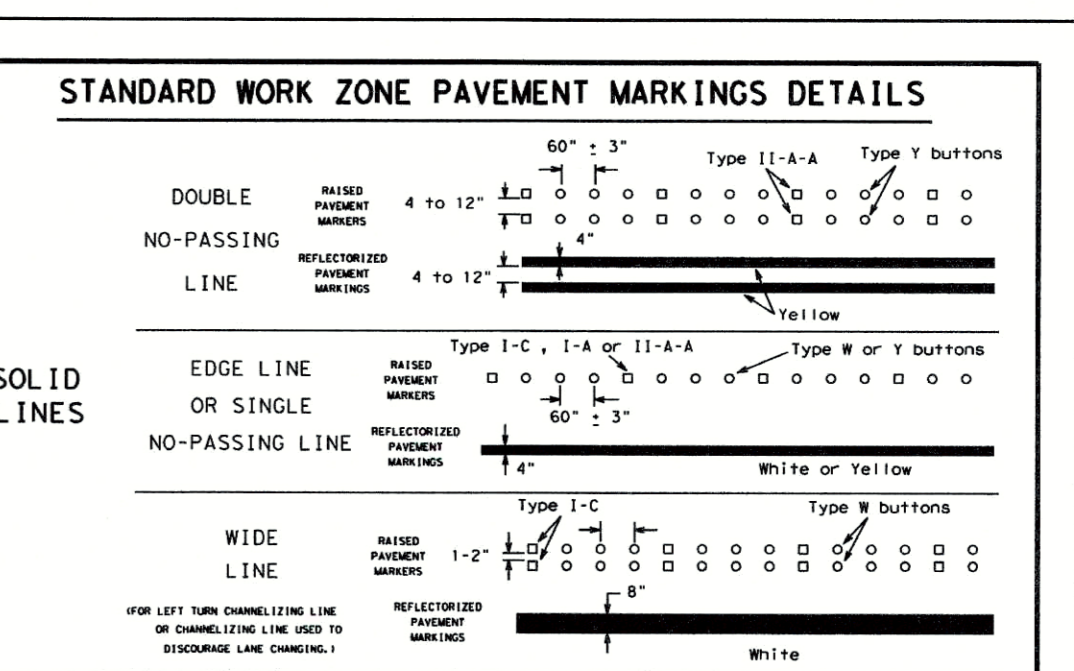
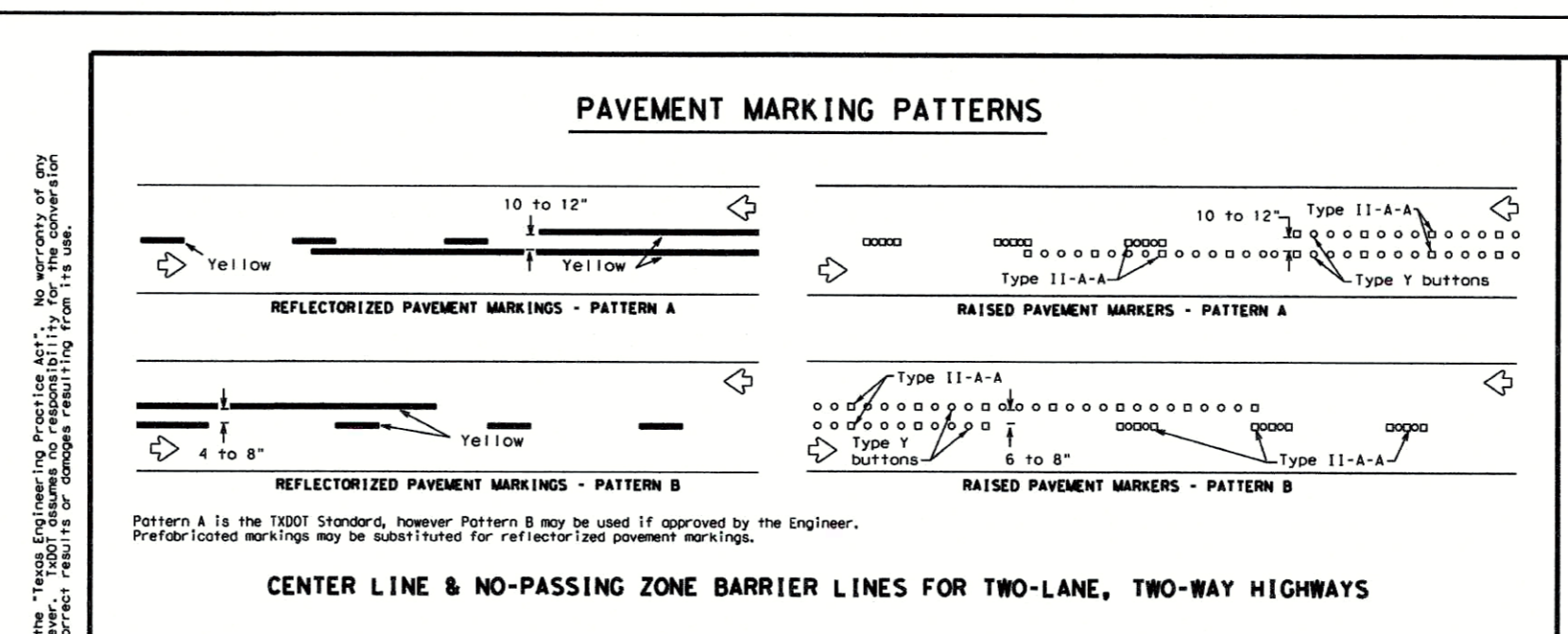
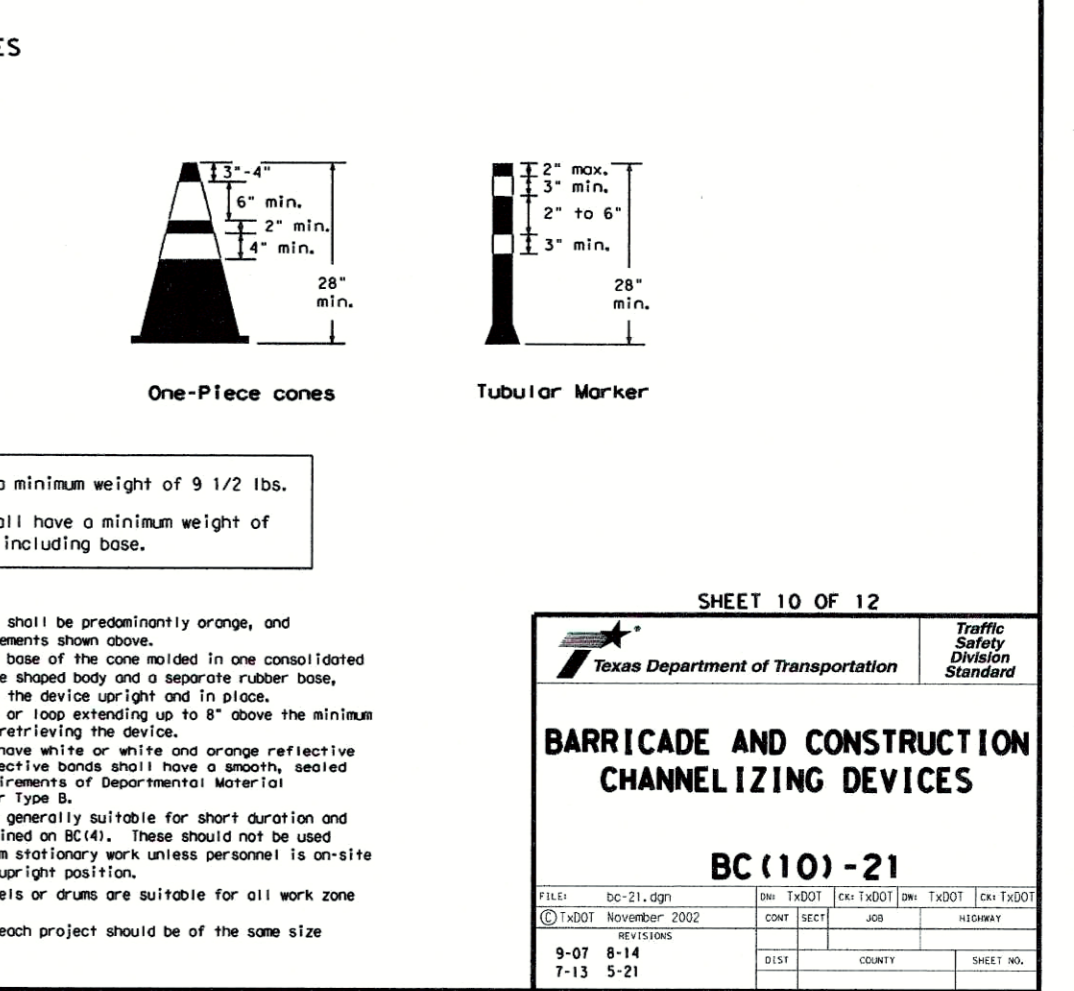
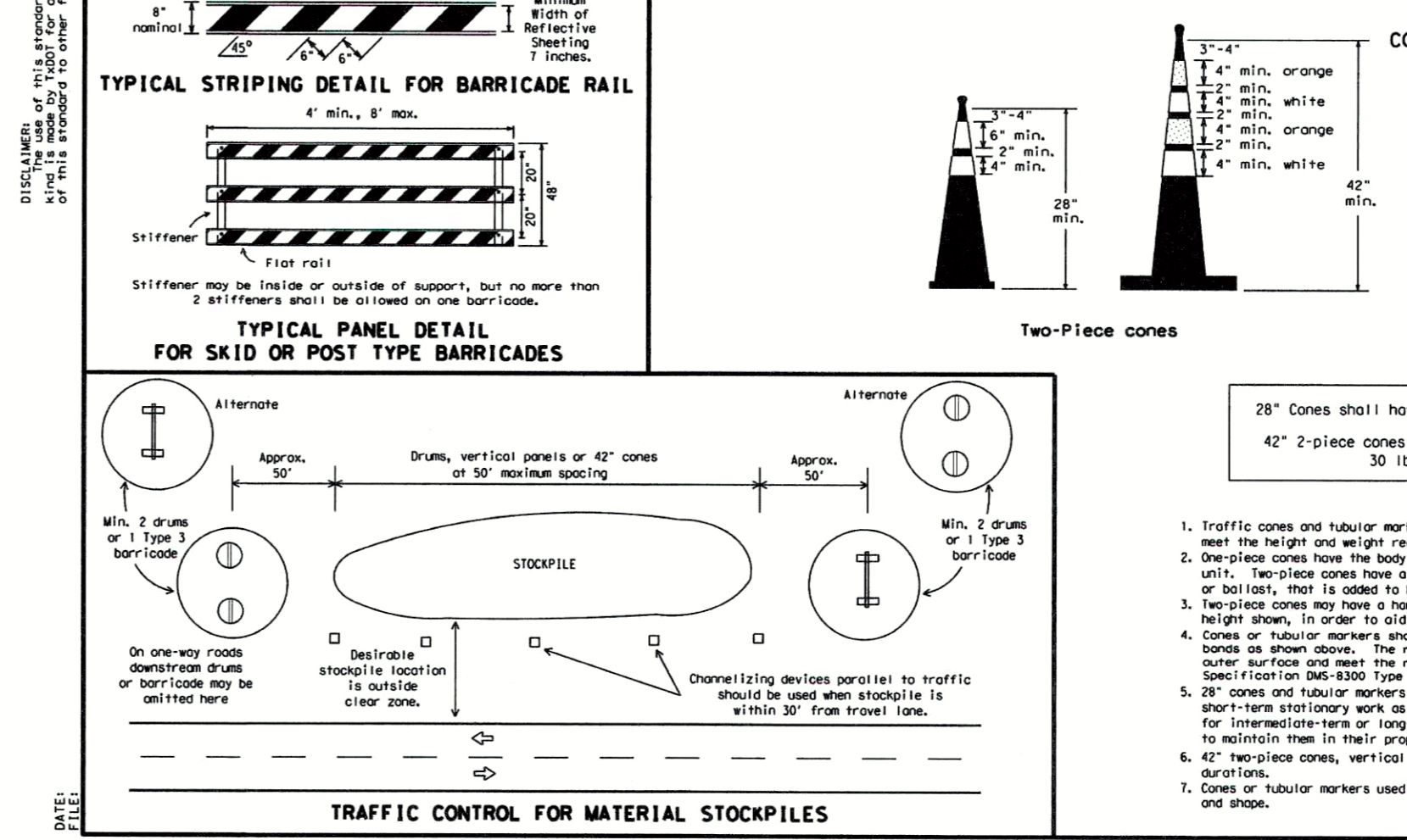
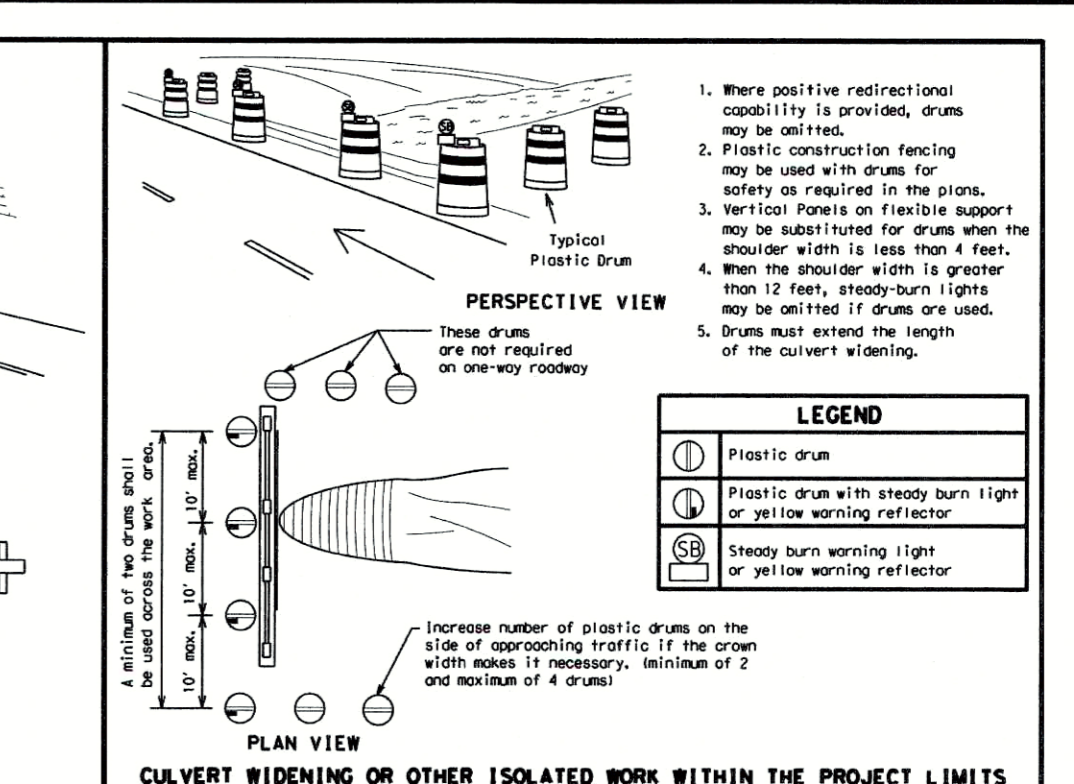
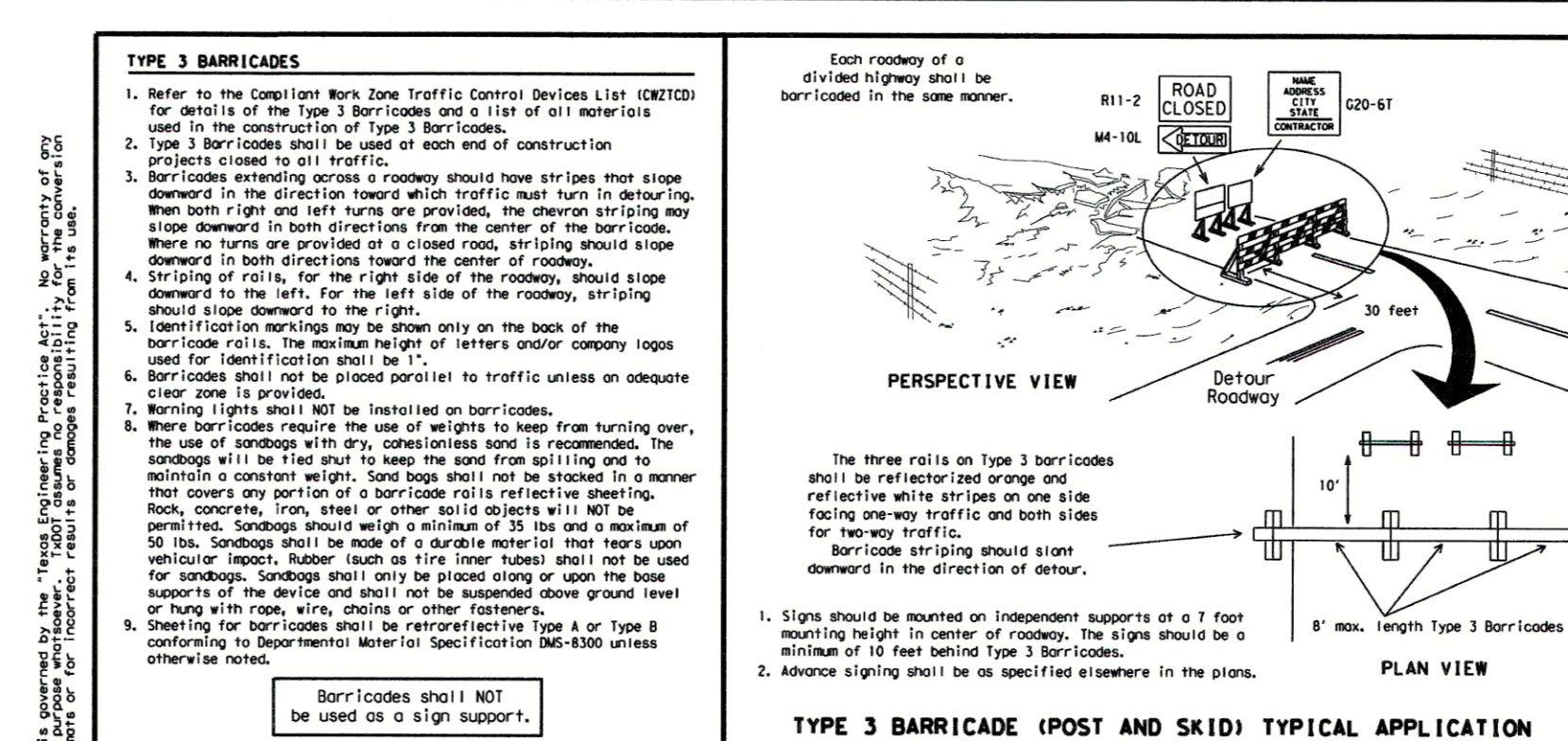
Item	Description	Quantity	Unit
1	36\"/>		



BARRICADE AND CONSTRUCTION PAVEMENT MARKING PATTERNS

BC (12) - 21

Item	Description	Quantity	Unit
1	36\"/>		



ACQUAIRO CONSULTANTS, LTD.

123 Rowland Drive, Suite 208
San Marcos, Texas 78666
Phone: (512) 412-8500 Fax: (512) 412-9399
Registration No. F-3924
email: acq@acquistro.com

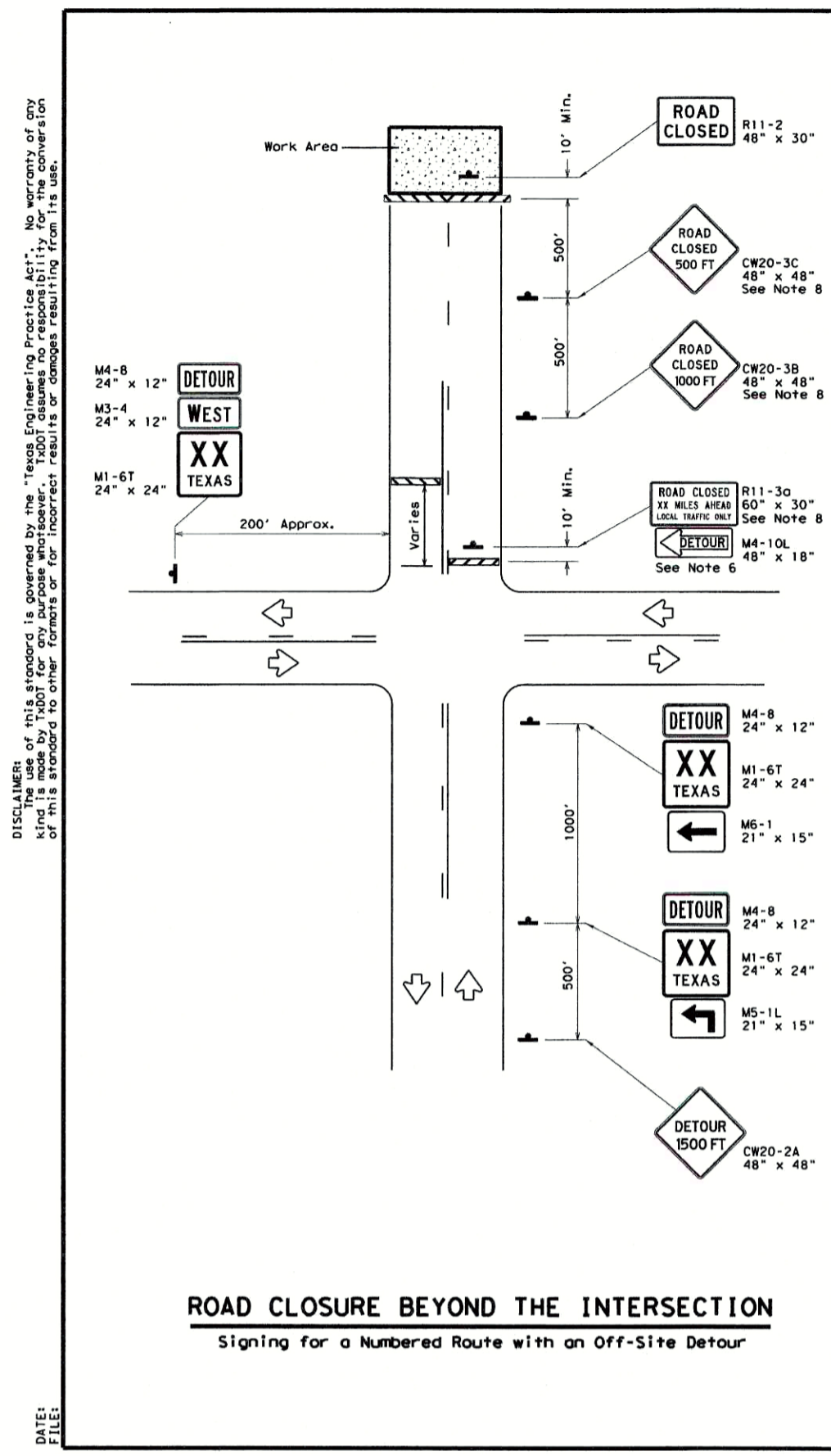
CITY OF BURNET CHANNELIZING DEVICES DETAILS 3 OF 3

OAK VISTA DRIVE STREET AND DRAINAGE IMPROVEMENTS

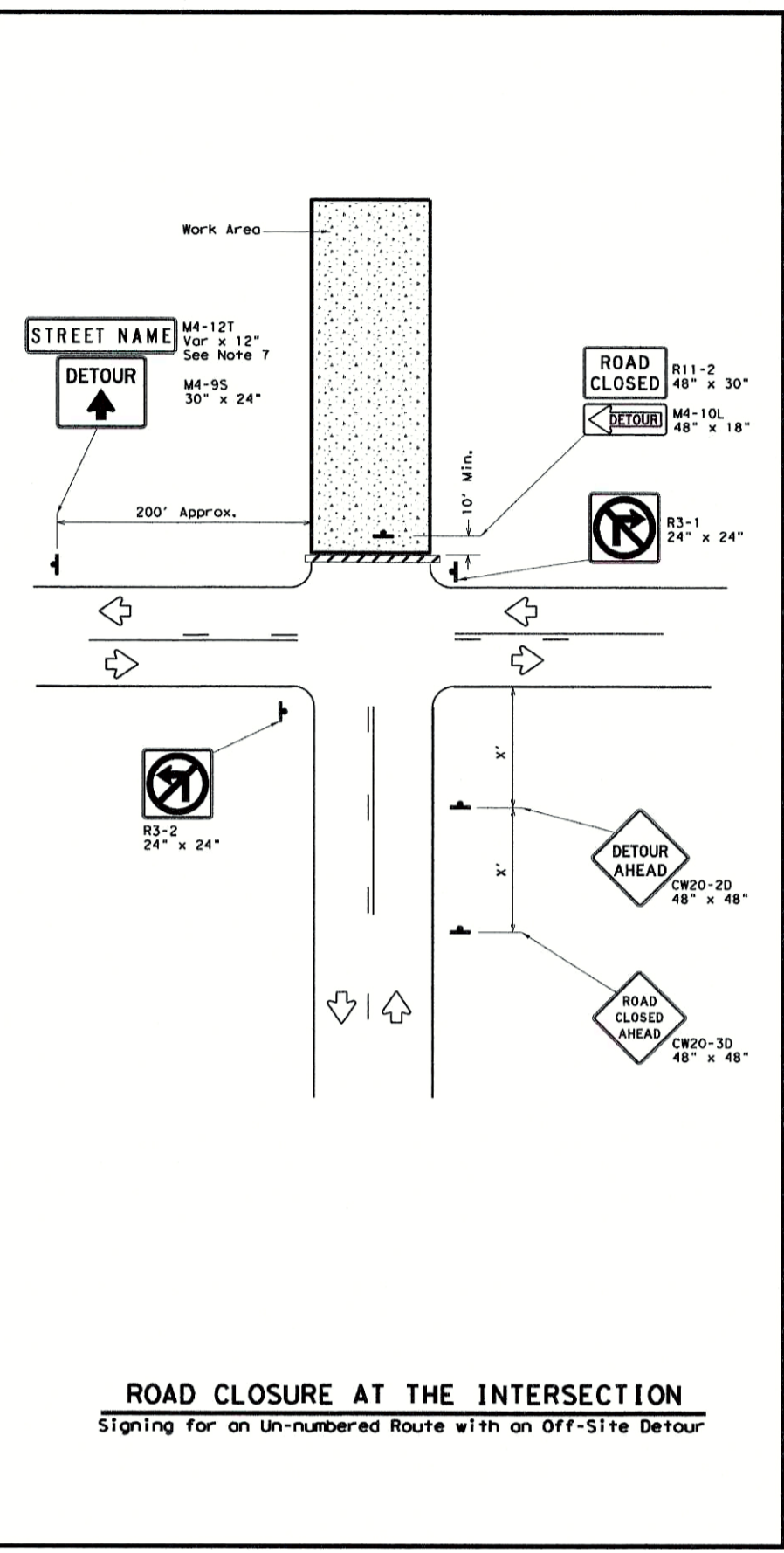
CITY OF BURNET, TEXAS

CLIENT: CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611

DATE: SEPTEMBER, 2022
PROJECT: 21-231.27
DRAWING NAME: 17-19_OV_BARRICADE AND CHANNELIZING DEVICES
DESIGN: --- CHECKED: CDE
DRAWN: CDE APPROVED: HE Jr.
SHEET: 19 OF 25



ROAD CLOSURE BEYOND THE INTERSECTION
Signing for a Numbered Route with an Off-Site Detour



ROAD CLOSURE AT THE INTERSECTION
Signing for an Un-numbered Route with an Off-Site Detour

LEGEND

	Type 3 Barricade
	Sign

Posted Speed #	Minimum Sign Spacing - "X" Distance
30	120'
35	160'
40	240'
45	320'
50	400'
55	500'
60	600'
65	700'
70	800'
75	900'

* Conventional Roads Only

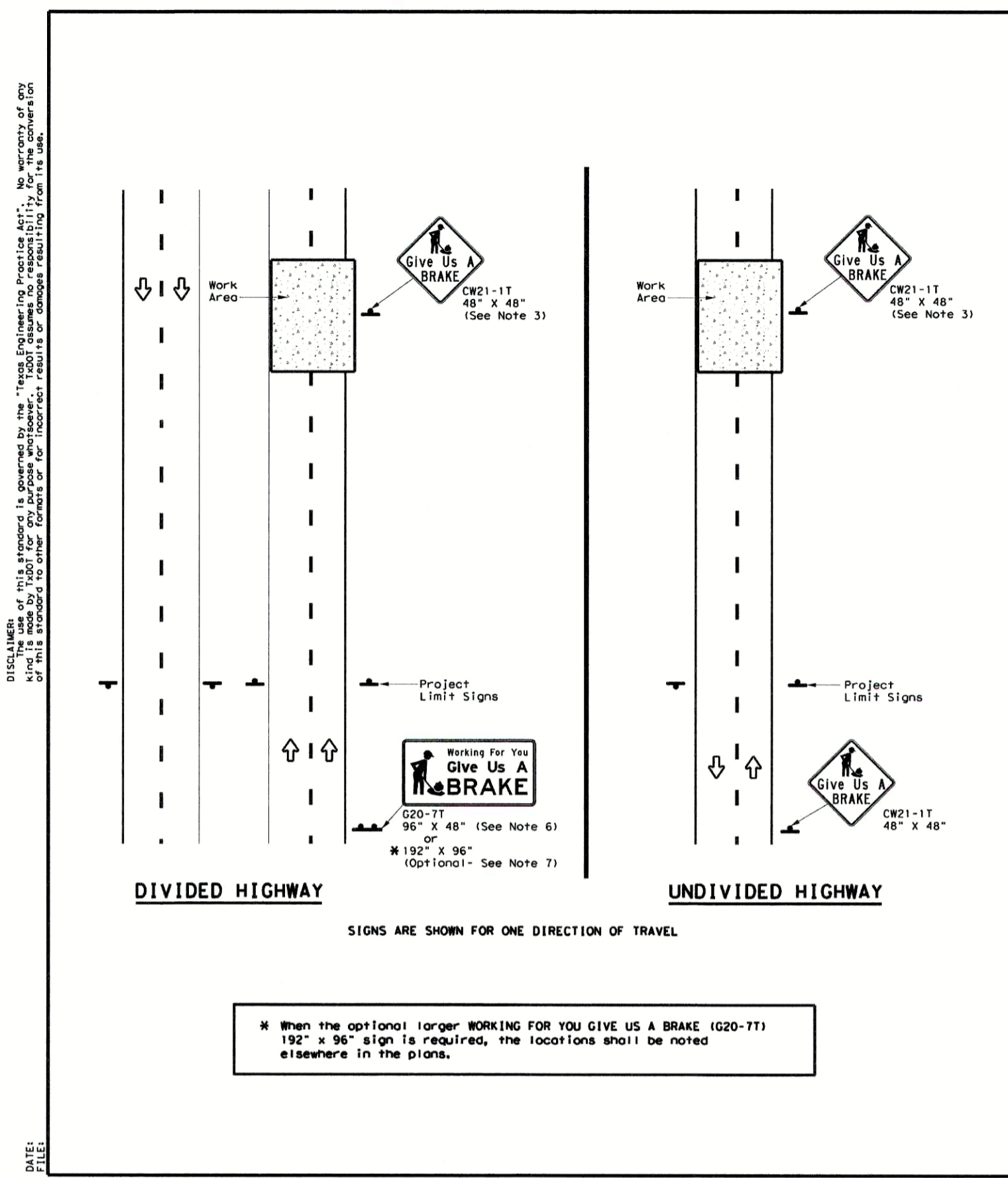
GENERAL NOTES

- This sheet is intended to provide details for temporary work zone road closures. For permanent road closure details see the DDM standards.
- Barricades used shall meet the requirements shown on Barricade and Construction Standard BC100 and listed on the Operation Work Zone Traffic Control Devices List (CWZTCD).
- Stockpiled materials shall not be placed on the traffic side of barricades.
- Barricades of the road closure should extend from pavement edge to pavement edge.
- Detour signing shown is intended to illustrate the type of signing that is appropriate for numbered routes or unnumbered routes as labeled. It does not indicate the full extent of detour signing required. Detour routes should be signed as shown elsewhere in the plans.
- If the road is open for a significant distance beyond the intersection or there are significant origin/destination points beyond the intersection, the signs and barricades at this location should be located on the edge of the travel way.
- The Street Name (M4-121) sign is to be placed above the DETOUR (M4-95) sign.
- For urban areas where there is a shorter distance between the intersection and the actual closure location, the ROAD CLOSED 35 MILES AHEAD (R11-30) sign may be replaced with a ROAD CLOSED THRU TRAFFIC (R11-4) sign. If adequate space does not exist between the intersection and the closure a single ROAD CLOSED AHEAD (CR20-30) sign spaced as per the table above may replace the ROAD CLOSED 1000 FT (CR20-30) and ROAD CLOSED 500 FT (CR20-3C) signs.
- Signs and barricades shown shall be subsidiary to Item 502. Locations where these details will be required shall be as shown elsewhere in the plans.

WORK ZONE ROAD CLOSURE DETAILS

WZ (RCD) - 13

FILE	WZRC13.dwg	DATE	7/20/21	BY	1002	CHK	1002
DESIGNED	August 1995	DATE		BY		CHK	
1-91	4-98	7-13					
2-98	3-03						



DIVIDED HIGHWAY **UNDIVIDED HIGHWAY**

SIGNS ARE SHOWN FOR ONE DIRECTION OF TRAVEL

* When the optional larger WORKING FOR YOU GIVE US A BRAKE (G20-7T) 192" x 96" sign is required, the locations shall be noted elsewhere in the plans.

SUMMARY OF LARGE SIGNS

BACKGROUND COLOR	SIGN DESIGNATION	SIGN DIMENSIONS	REFLECTIVE SHEETING	SQ FT	GALVANIZED STRUCTURAL STEEL		DRILLED SHAFT 24" DIA. (LF)
					SIZE	QTY	
Orange	G20-1T	96" x 48"	Type B ₁₀ or C ₁₀	32	▲	▲	▲
Orange	G20-7T	192" x 96"	Type B ₁₀ or C ₁₀	128	WBx18	16	12

▲ See Note 6 Below

LEGEND

	Sign
	Large Sign
	Traffic Flow

DEPARTMENTAL MATERIAL SPECIFICATIONS

PLYWOOD SIGN BLANKS	DMS-7100
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

COLOR USAGE SHEETING MATERIAL

ORANGE BACKGROUND	TYPE B ₁₀ OR TYPE C ₁₀
BLACK LEGEND & BORDERS	NON-REFLECTIVE ACRYLIC FILM

GENERAL NOTES

- See BC and SMD sheets for additional sign support details.
- Sign locations shall be approved by the Engineer.
- For projects more than two miles in length, Give Us A BRAKE signs should be repeated halfway through the project. The Give Us A Brake (CWZ1-1T) may be used for this purpose.
- Work zone speed limits are sometimes used in conjunction with GIVE US A BRAKE signing. See BC13 for location and spacing of construction speed zone signing when required.
- Give Us A Brake (CWZ1-1T) signs and supports shall be considered subsidiary to Item 502, "Barricades, Signs and Traffic Handling."
- The 96" x 48" Working For You Give Us A BRAKE (G20-7T) may use a 1/2" or 5/8" plywood substrate or 5/16" aluminum sheeting substrate and may be supported by two 4" x 6" wood posts with drilled holes for breakaway as per BC15 and will be subsidiary to Item 502.
- The Working For You Give Us A BRAKE (G20-7T) 192" x 96" sign shall be paid for under the following specification items:
Item 636 - Aluminum Signs
Item 647 - Large Roadside Sign Supports and Assemblies, Item 416 - Drilled Shaft Foundations
- All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.

WORK ZONE "GIVE US A BRAKE" SIGNS

WZ (BRK) - 13

FILE	WZBRK13.dwg	DATE	7/20/21	BY	1002	CHK	1002
DESIGNED	August 1995	DATE		BY		CHK	
1-91	4-98	7-13					
2-98	3-03						

DATE: _____

BY: _____

DESCRIPTION: _____

REVISION: _____

CUATRECASAS
consultants,
Registration No. 17-5724
120 Rensselaer Drive, Suite 208, P.O. Box 512, San Antonio, Texas 78248
Phone: (512) 312-5040 Fax: (512) 312-5759
email: cuatrecasas@cuatrecasas.com

WORK ZONE DETAILS

OAK VISTA DRIVE
STREET AND DRAINAGE
IMPROVEMENTS
CITY OF BURNET, TEXAS

CLIENT: **CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611**

DATE: **SEPTEMBER, 2022**

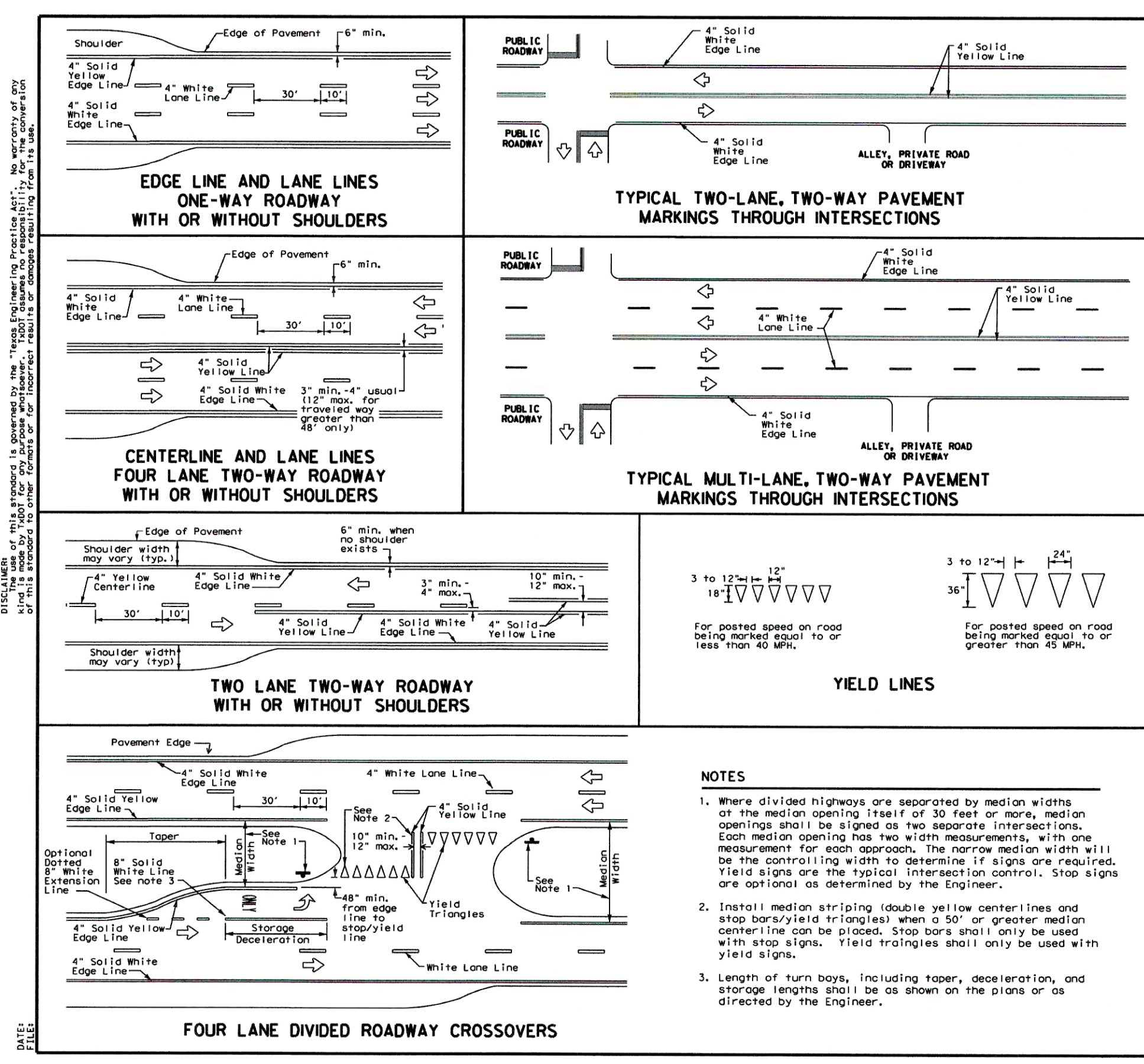
PROJECT: **21-231.27**

DRAWING'S NAME: **20_OV_WORK_ZONE_DETAILS**

DESIGN: _____ CHECKED: **CDE**

DRAWN: **CDE** APPROVED: **HE Jr.**

SHEET: **20 OF 25**



GENERAL NOTES

1. Edgeline striping shall be as shown in the plans or as directed by the Engineer. The edgeline should not be placed less than 6 inches from the edge of pavement. This distance may vary due to pavement raveling or other conditions. Edgelines are not required in curb and gutter sections of roadways.
2. The traveled way includes only that portion of the roadway used for vehicular travel. It does not include the parking lanes, sidewalks, berms and shoulders. The traveled way shall be measured from the inside of edgeline to the inside of edgeline of a two lane roadway.

MATERIAL SPECIFICATIONS

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

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

YIELD LINES

For posted speed on road being marked equal to or less than 40 MPH.

For posted speed on road being marked equal to or greater than 40 MPH.

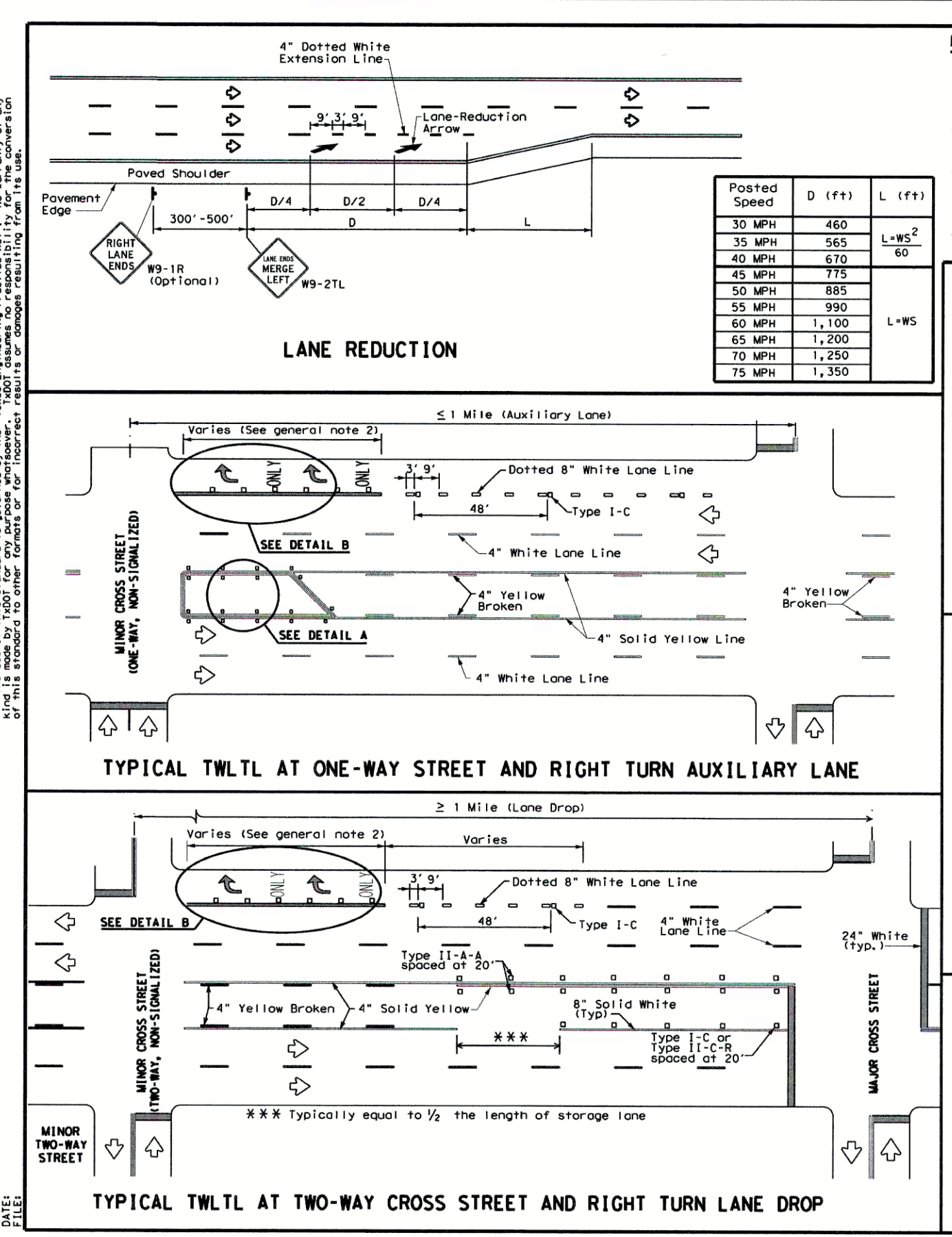
GUIDE FOR PLACEMENT OF STOP LINES, EDGE LINE & CENTERLINE

Based on Traveled Way and Pavement Widths for Divided Highways

TYPICAL STANDARD PAVEMENT MARKINGS

PM(1) - 20

REV	DATE	BY	CHK	APP	DESCRIPTION
01	10/20/20	1916			
02	10/20/20	1916			
03	10/20/20	1916			
04	10/20/20	1916			
05	10/20/20	1916			
06	10/20/20	1916			
07	10/20/20	1916			
08	10/20/20	1916			
09	10/20/20	1916			
10	10/20/20	1916			
11	10/20/20	1916			
12	10/20/20	1916			
13	10/20/20	1916			
14	10/20/20	1916			
15	10/20/20	1916			
16	10/20/20	1916			
17	10/20/20	1916			
18	10/20/20	1916			
19	10/20/20	1916			
20	10/20/20	1916			



GENERAL NOTES

1. Lane reduction pavement markings are used where the number of through lanes is reduced because of narrowing of the roadway or because of a section of one-way parking in what would otherwise be a through lane. For Texas Super 2 Passing Lanes, see 1521CF1 standard sheets.
2. On divided highways, an additional W-1R "RIGHT LANE ENDS" sign may be installed in the median aligned with the W-1R sign on the right side of the highway.
3. Lane reduction arrows are required for speeds of 45 mph or greater. An optional third lane reduction arrow may be added based on engineering judgement. If used, the optional third lane reduction arrow should be centered between the first and last lane reduction arrows.
4. For lane reductions on Freeways and Expressways, signing shall conform to the TxDOT Freeway Signing Handbook.

MATERIAL SPECIFICATIONS

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

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

TWO-WAY LEFT TURN LANES, RURAL LEFT TURN BAYS, AND LANE REDUCTION PAVEMENT MARKINGS PM(3) - 20

REV	DATE	BY	CHK	APP	DESCRIPTION
01	10/20/20	1916			
02	10/20/20	1916			
03	10/20/20	1916			
04	10/20/20	1916			
05	10/20/20	1916			
06	10/20/20	1916			
07	10/20/20	1916			
08	10/20/20	1916			
09	10/20/20	1916			
10	10/20/20	1916			
11	10/20/20	1916			
12	10/20/20	1916			
13	10/20/20	1916			
14	10/20/20	1916			
15	10/20/20	1916			
16	10/20/20	1916			
17	10/20/20	1916			
18	10/20/20	1916			
19	10/20/20	1916			
20	10/20/20	1916			

DATE:	SEPTEMBER, 2022
PROJECT:	21-231.27
DRAWING'S NAME:	21_OV_PAVEMENT MARKING DETAILS
DESIGN:	---
CHECKED:	CDE
DRAWN:	CDE
APPROVED:	HE Jr.
SHEET:	21 OF 25

PAVEMENT MARKING DETAILS

OAK VISTA DRIVE
STREET AND DRAINAGE IMPROVEMENTS
CITY OF BURNET, TEXAS

CLIENT:

CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611

ACQUATRO CONSULTANTS

Registration No. 1-5324
122 Renewall Drive, Suite 203
San Marcos, Texas 78666
Phone: (512) 412-0900 Fax: (512) 412-5359
e-mail: acquatroconsultants.com

SIGN SUPPORT DESCRIPTIVE CODES
SM RD SIGN ASST TY XXXX (XXXX-XXXX)

REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT

SIGN LOCATION

1-INTERSECTION

CONCRETE ANCHOR

NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. The devices shall be installed per manufacturer's recommendations. Installation procedures shall be provided to the Engineer by Contractor.

REQUIRED SUPPORT

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-1)-08

TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS

CONCRETE ANCHOR

NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. The devices shall be installed per manufacturer's recommendations. Installation procedures shall be provided to the Engineer by Contractor.

REQUIRED SUPPORT

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-1)-08

TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS

CONCRETE ANCHOR

NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. The devices shall be installed per manufacturer's recommendations. Installation procedures shall be provided to the Engineer by Contractor.

REQUIRED SUPPORT

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-2)-08

Wedge Anchor Steel System

Universal Anchor System with Thin-Walled Tubing Post

Wedge Anchor High Density Polyethylene (HDPE) System

NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. The devices shall be installed per manufacturer's recommendations. Installation procedures shall be provided to the Engineer by Contractor.

REQUIRED SUPPORT

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(TWT)-08

Wedge Anchor Steel System

Universal Anchor System with Thin-Walled Tubing Post

Wedge Anchor High Density Polyethylene (HDPE) System

NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. The devices shall be installed per manufacturer's recommendations. Installation procedures shall be provided to the Engineer by Contractor.

REQUIRED SUPPORT

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(TWT)-08

Universal Anchor System with Fiberglass Reinforced Plastic (FRP) Post

Typical Sign Mounting Detail for FRP Support with Single Sign

Typical Sign Mounting Detail for FRP Support with Back-to-Back Signs

NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. The devices shall be installed per manufacturer's recommendations. Installation procedures shall be provided to the Engineer by Contractor.

REQUIRED SUPPORT

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS UNIVERSAL ANCHOR SYSTEM WITH FRP POST SMD(FRP)-08

DATE:	
BY:	
REVISION:	
DESCRIPTION:	



AQUATRO CONSULTANTS, INC.
 Registered No. F-5224
 1330 Newhall Drive, Suite 208
 Burnet, Texas 78611
 Phone: (512) 312-5500 Fax: (512) 312-5339
 Email: contact@aquatro.com

CITY OF BURNET
 1001 BUCHANAN DRIVE, SUITE 4
 BURNET, TEXAS 78611

CLIENT:

DATE: SEPTEMBER, 2022

PROJECT: 21-231.27

DRAWING'S NAME: 22_OV_SIGN MOUNTING DETAILS

DESIGN: _____ **CHECKED:** CDE

DRAWN: CDE **APPROVED:** HE Jr.

SHEET: 22 OF 25

REQUIREMENTS FOR INDEPENDENT MOUNTED ROUTE SIGNS

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND ALL OTHERS	TYPE B OR C SHEETING	
LEGEND & BORDERS	WHITE	TYPE A SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND & BORDERS	ALL OTHERS	TYPE B OR C SHEETING

REQUIREMENTS FOR BLUE, BROWN & GREEN D AND I SERIES GUIDE SIGNS

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	ALL OTHERS	TYPE B OR C SHEETING
LEGEND & BORDERS	WHITE	TYPE D SHEETING
LEGEND, SYMBOLS & BORDERS	ALL OTHERS	TYPE B OR C SHEETING

GENERAL NOTES

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign fabrication sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
- White legend shall use the ClearView Alphabet. The following ClearView fonts shall be used to replace the existing white Federal Highway Administration (FHWA) Standard Highway Alphabet, when not specified in the SHSD, or in the plans.
- Route sign legend (R, U, U2, S, and M shields) shall use the Federal Highway Administration (FHWA) Standard Highway Alphabet B, C, D, E, End or F.
- Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
- Independent mounted route sign with white or colored legend and borders shall be applied by screening process with transparent color line, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof. White legends, symbols and borders on all other signs shall be cut-out white sheeting applied to colored background sheeting.
- Information regarding borders and radii for signs is found in the "Standard Highway Sign Designs for Texas". Dimensions shown and described for borders and corner radii on parent sign are optional. Borders may vary in width as much as 1/2 inch. Corner radii shall be 3 inches or more in width, as much as 1 inch. Borders and corner radii within a parent sign shall be of matching widths. The sign area outside the corner radius shall be trimmed or rounded.
- Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative.
- Mounting details for roadside signs are shown in the "SMD series" Standard Plan Sheets.

DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

ALUMINUM SIGN BLANKS THICKNESS

Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website:
<http://www.txdot.gov>

TYPICAL SIGN REQUIREMENTS

TSR (3) - 13

12-03 7-13
REVISED

Texas Department of Transportation
Traffic Operations Division
Standard

REQUIREMENTS FOR RED BACKGROUND REGULATORY SIGNS (STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)

REQUIREMENTS FOR WHITE BACKGROUND REGULATORY SIGNS (EXCLUDING STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)

REQUIREMENTS FOR WARNING SIGNS

REQUIREMENTS FOR SCHOOL SIGNS

GENERAL NOTES

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign fabrication sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
- Sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabet B, C, D, E, End or F.
- Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
- Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
- White legend and borders shall be applied by screening process with transparent colored line, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
- Colored legend shall be applied by screening process with transparent colored line, transparent colored overlay film or colored sheeting to background sheeting, or combination thereof.
- Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative.
- Mounting details for roadside signs are shown in the "SMD series" Standard Plan Sheets.

DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

ALUMINUM SIGN BLANKS THICKNESS

Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website:
<http://www.txdot.gov>

TYPICAL SIGN REQUIREMENTS

TSR (4) - 13

12-03 7-13
REVISED

Texas Department of Transportation
Traffic Operations Division
Standard

ARROW DETAILS for Large Ground-Mounted and Overhead Guide Signs

SIGN BLANK PUNCHING DETAILS FOR ATTACHMENTS WHEN SPECIFIED TO BE TYPE ALUMINUM SIGNS (FOR MOUNTING TO GUIDE SIGN FACE)

ARROW DETAILS for Destination Signs (Type D)

MOUNTING DETAILS OF ATTACHMENTS TO GUIDE SIGN FACE ("EXIT ONLY" AND "LEFT EXIT" PANELS, ROUTE MARKERS AND OTHER ATTACHMENTS)

GENERAL NOTES

- Sheeting for legend, symbols, and borders must be cut at panel joints.
- Direct applied attachment signs will be subsidiary to "Aluminum Sign" or "Fiberglass Signs".

DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

ALUMINUM SIGN BLANKS THICKNESS

Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website:
<http://www.txdot.gov>

TYPICAL SIGN REQUIREMENTS

TSR (5) - 13

12-03 7-13
REVISED

Texas Department of Transportation
Traffic Operations Division
Standard

GENERAL NOTES

- All bicycle lane pavement markings shall be white unless otherwise noted.
- All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.
- Exact sign placement and details are shown elsewhere in the plans.
- The current edition of AASHTO's Guide for the Development of Bicycle Facilities should be referenced for variations in design, other geometric conditions, and lane width options.
- Other bicycle lane symbol or word markings as shown in the Texas Manual on Uniform Traffic Control Devices may be used. Details for words, arrows and symbols as shown in the Standard Highway Sign Designs for Texas.
- The "BIKE LANE" (R3-17) sign with the "AHEAD" (R3-13a) sign mounted directly below should be installed in advance of the beginning of a marked bike lane.
- The "BIKE LANE" (R3-17) sign with the "END" (R3-13a) sign mounted directly below should be installed at the end of marked bicycle lane.

LEGEND

- Sign
- Traffic Flow

SPECIFICATION REFERENCE TABLE

Traffic Paint	DMS-8200
Hot Applied Thermoplastic	DMS-8220
Permanent Prefabricated Pavement Markings	DMS-8240
Glass Traffic Beads	DMS-8290

BICYCLE LANE PAVEMENT MARKINGS

BLPM-10

GENERAL NOTES

- Bicycle lane pavement markings typically repeated after each intersection or signalized or towed.
- On uninterrupted sections of roadway, bicycle lane pavement markings typically repeated as follows:
-1200' for 45 MPH or less roads
-2500' for 50 MPH and greater roads.

(See RCPM Standard for travel lane details)

TYPICAL SIGN REQUIREMENTS

TSR (6) - 13

12-03 7-13
REVISED

Texas Department of Transportation
Traffic Operations Division
Standard

DATE: _____

BY: _____

DESCRIPTION: _____

REVISION: _____

ACQUATRO CONSULTANTS, LTD.
 Registration No. F-5324
 133 S. Wall Street, Suite 2008
 San Antonio, Texas 78266
 Phone: (214) 343-5500 Fax: (214) 343-5379
 Email: acquatro@acquatro.com

TYPICAL SIGN REQUIREMENTS

OAK VISTA DRIVE
STREET AND DRAINAGE
IMPROVEMENTS
CITY OF BURNET, TEXAS

CLIENT: CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611

DATE: SEPTEMBER, 2022

PROJECT: 21-231.27

DRAWING'S NAME: 23_OV_TYPICAL SIGN REQUIREMENTS

DESIGN: _____ CHECKED: CDE

DRAWN: CDE APPROVED: HE JR.

SHEET: 23 OF 25

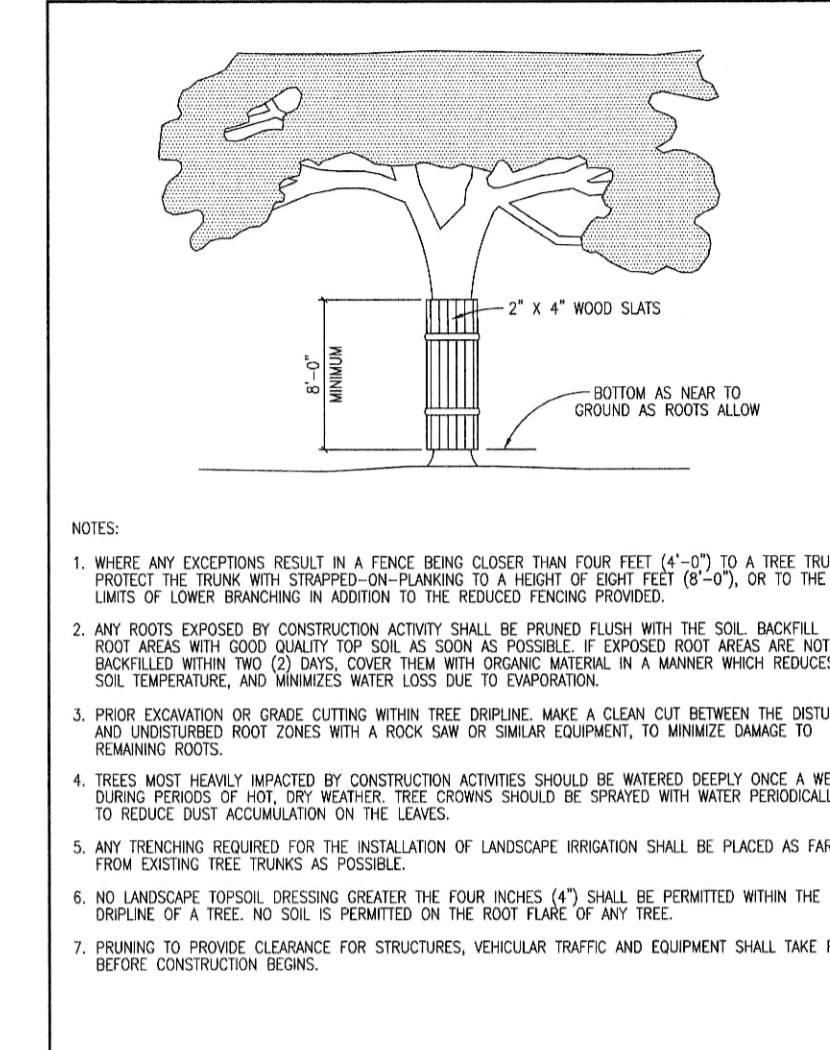
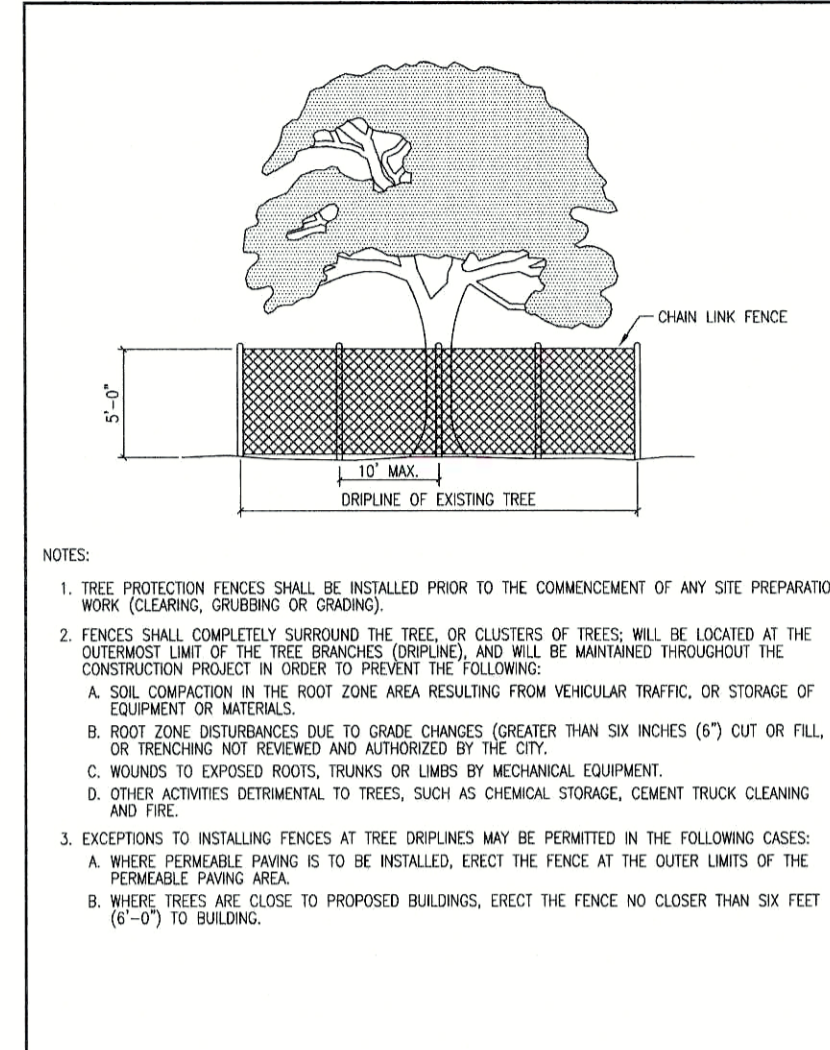
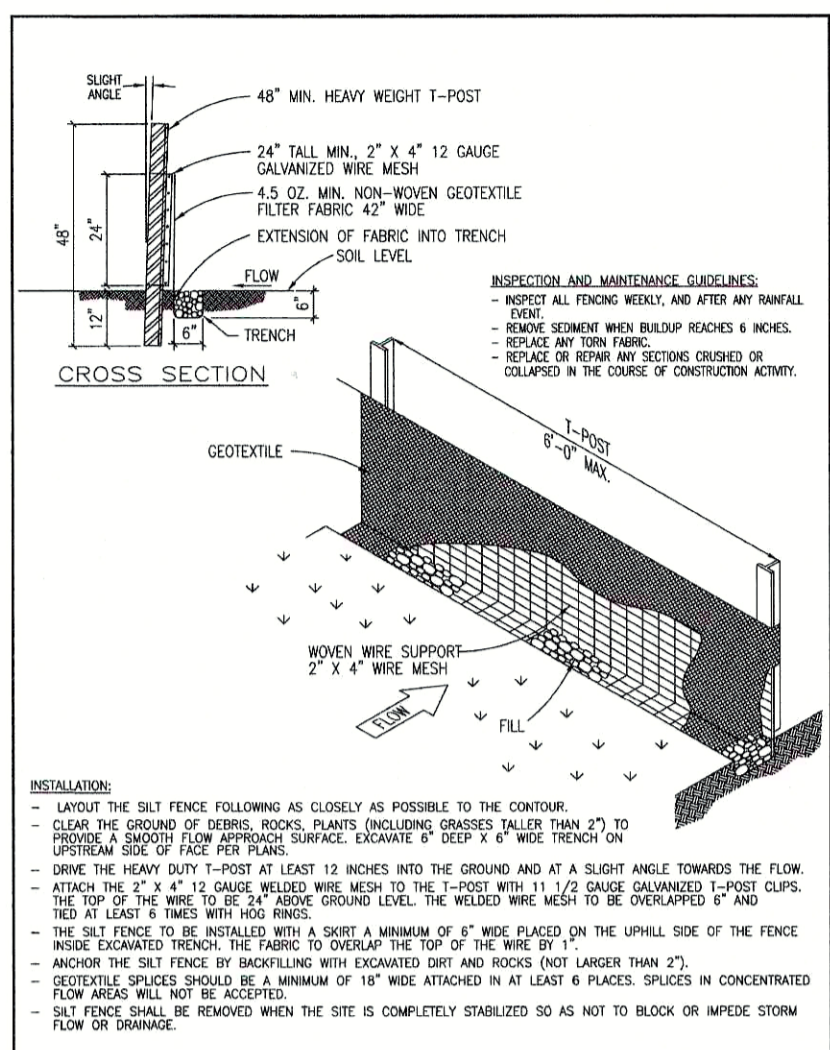
GUIDELINES FOR DESIGN AND INSTALLATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROLS

TYPE OF STRUCTURE	MAX. LENGTH	MINIMUM CHANNEL AREA	SLOPE
SKIFF FENCE	100 FEET	2 ACRES	2% - 10%
	300 FEET	1 ACRE	10 - 30%
	100 FEET	1/2 ACRE	> 30%
TRIANGLE FILTER DITCH	100 FEET	1/2 ACRE	< 30% SLOPE
	300 FEET	1/4 ACRE	> 30% SLOPE
ROCK BERM **	100 FEET	< 3 ACRES	2% - 10%

** FOR ROCK BERM DESIGN WHERE PARAMETERS ARE OTHER THAN STATED, CHANNEL HEAD CAPACITY AND ROCK BERM DESIGN MUST BE SUBMITTED FOR REVIEW.

** HIGH SERVICE ROCK BERMS MAY BE REQUIRED IN AREAS OF ENVIRONMENTAL SIGNIFICANCE AS DETERMINED BY THE CITY OF BURNET.

- NOTE:** THIS SECTION IS INTENDED TO ASSIST THOSE PERSONS PREPARING WATER POLLUTION ABATEMENT PLANS (WAPs) OR OTHER WATER POLLUTION PREVENTION PLANS (WPPs) THAT COMPLY WITH FEDERAL, STATE, AND/OR LOCAL WATER QUALITY REGULATIONS.
- THE CONTRACTOR TO INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS IN THESE AREAS PROTECTIVE OF WATER QUALITY AND PROTECTIVE OF THE ENVIRONMENT. THE EROSION/SEDIMENTATION CONTROLS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND THROUGHOUT THE CONSTRUCTION PHASES.
 - ALL EROSION/SEDIMENTATION CONTROLS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE CITY OF BURNET EROSION/SEDIMENTATION CONTROL PLAN AND THE CITY OF BURNET EROSION/SEDIMENTATION CONTROL PLAN. THE DESIGN OF EROSION/SEDIMENTATION CONTROLS SHALL BE APPROVED BY THE CITY OF BURNET.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF EROSION/SEDIMENTATION CONTROLS AND SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THESE CONTROLS THROUGHOUT THE CONSTRUCTION PHASES.
 - ALL EROSION/SEDIMENTATION CONTROLS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE CITY OF BURNET EROSION/SEDIMENTATION CONTROL PLAN AND THE CITY OF BURNET EROSION/SEDIMENTATION CONTROL PLAN. THE DESIGN OF EROSION/SEDIMENTATION CONTROLS SHALL BE APPROVED BY THE CITY OF BURNET.
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CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: STAFF
DATE: 08/2020

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD

DETAIL NUMBER: EC-01

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: STAFF
DATE: 08/2020

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD

DETAIL NUMBER: EC-02

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: STAFF
DATE: 08/2020

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD

DETAIL NUMBER: EC-03

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: STAFF
DATE: 08/2020

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD

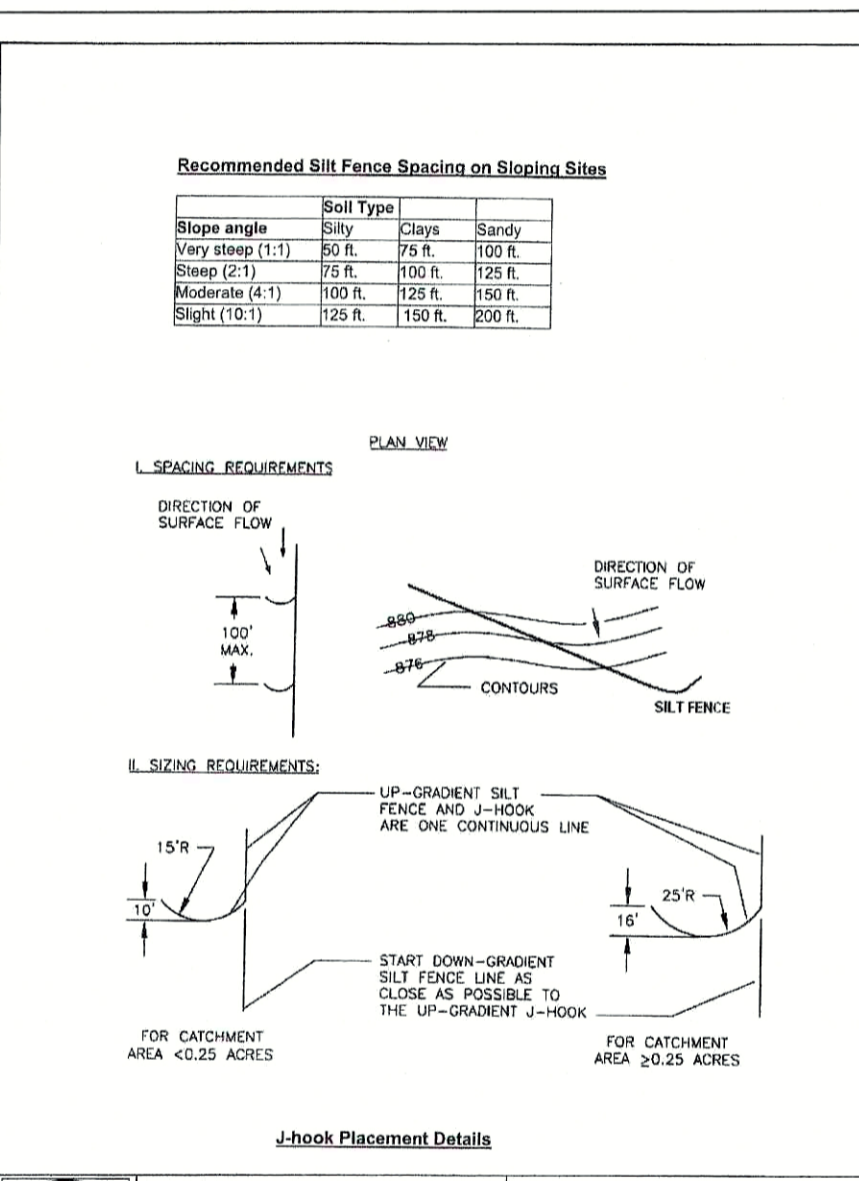
DETAIL NUMBER: EC-10

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: STAFF
DATE: 08/2020

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD

DETAIL NUMBER: EC-11

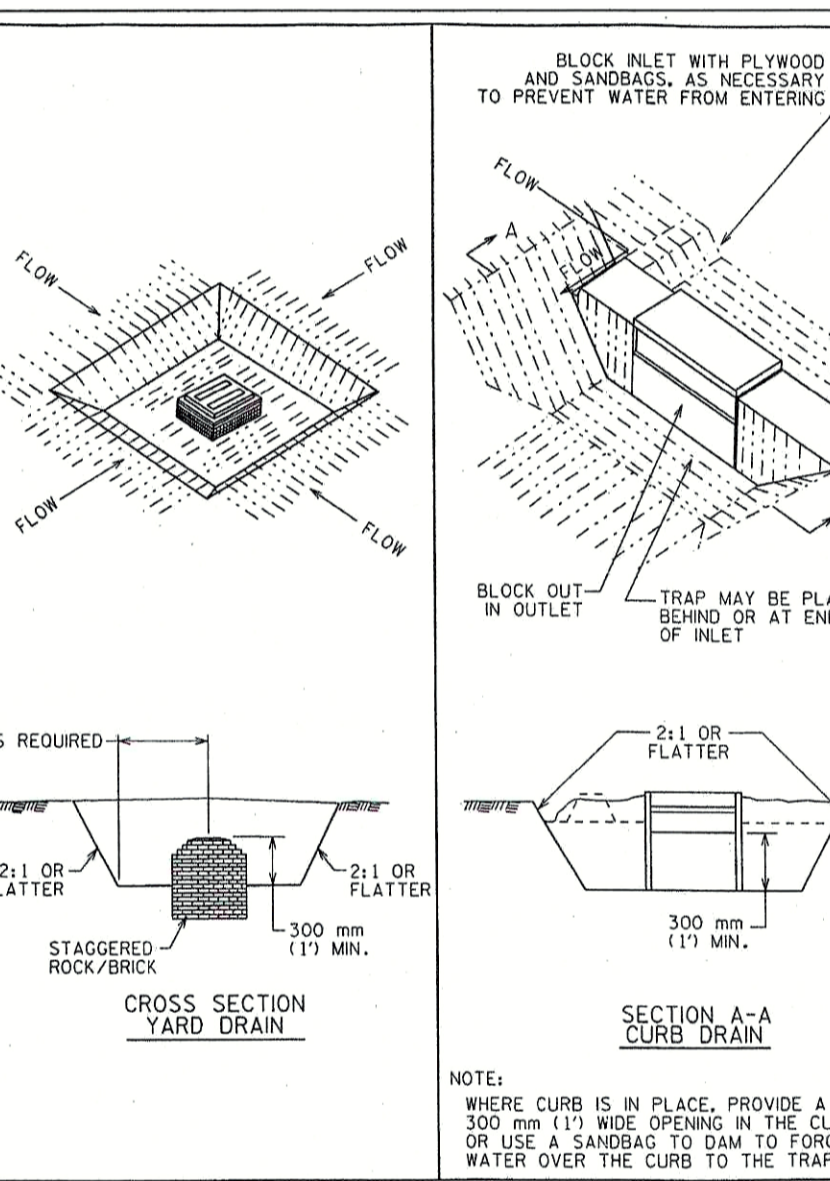


CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: STAFF
DATE: 08/2020

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD

DETAIL NUMBER: EC-12



CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

APPROVED BY: ADRIAN Y. RODRIGUEZ
DATE: 8/27/2010

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD

STANDARD: 632S-1

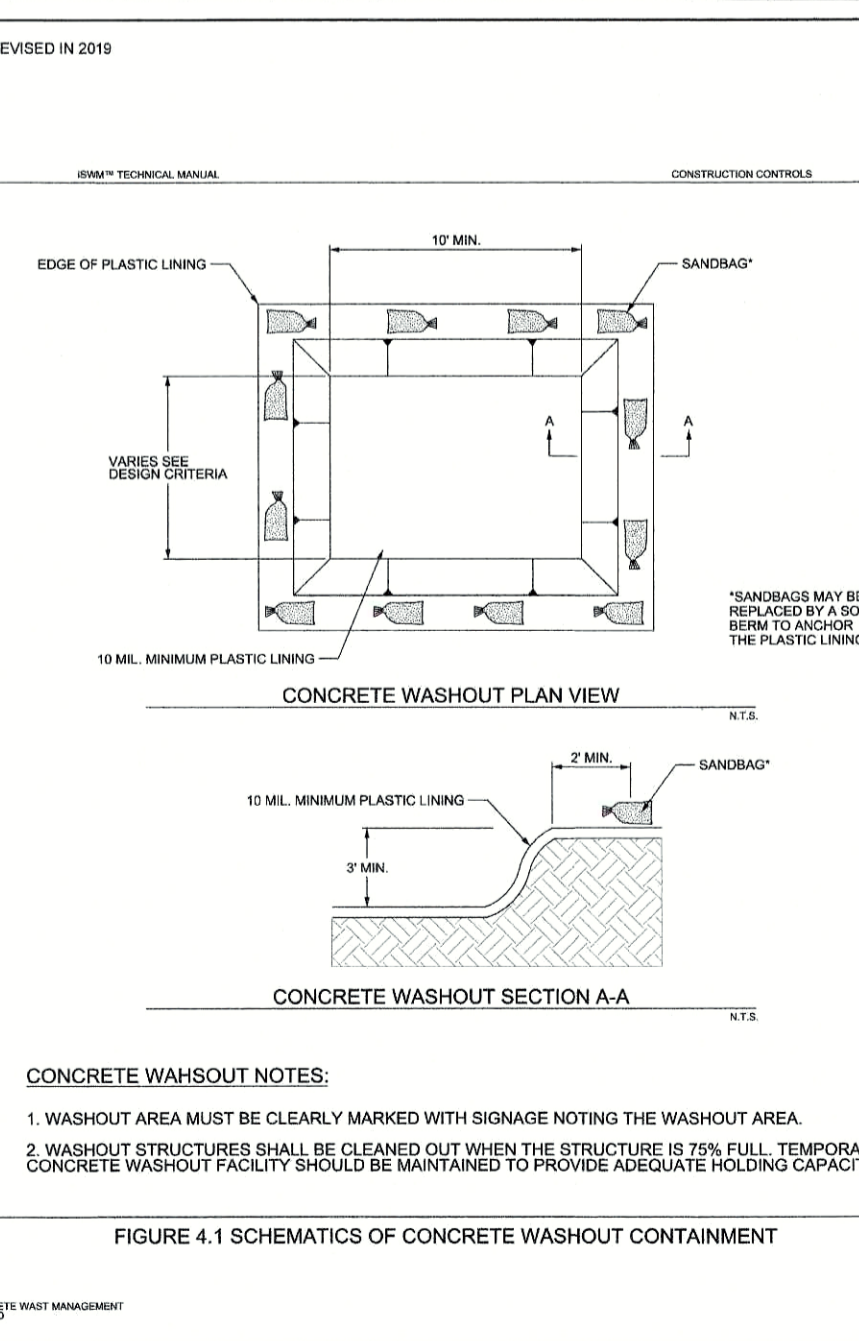
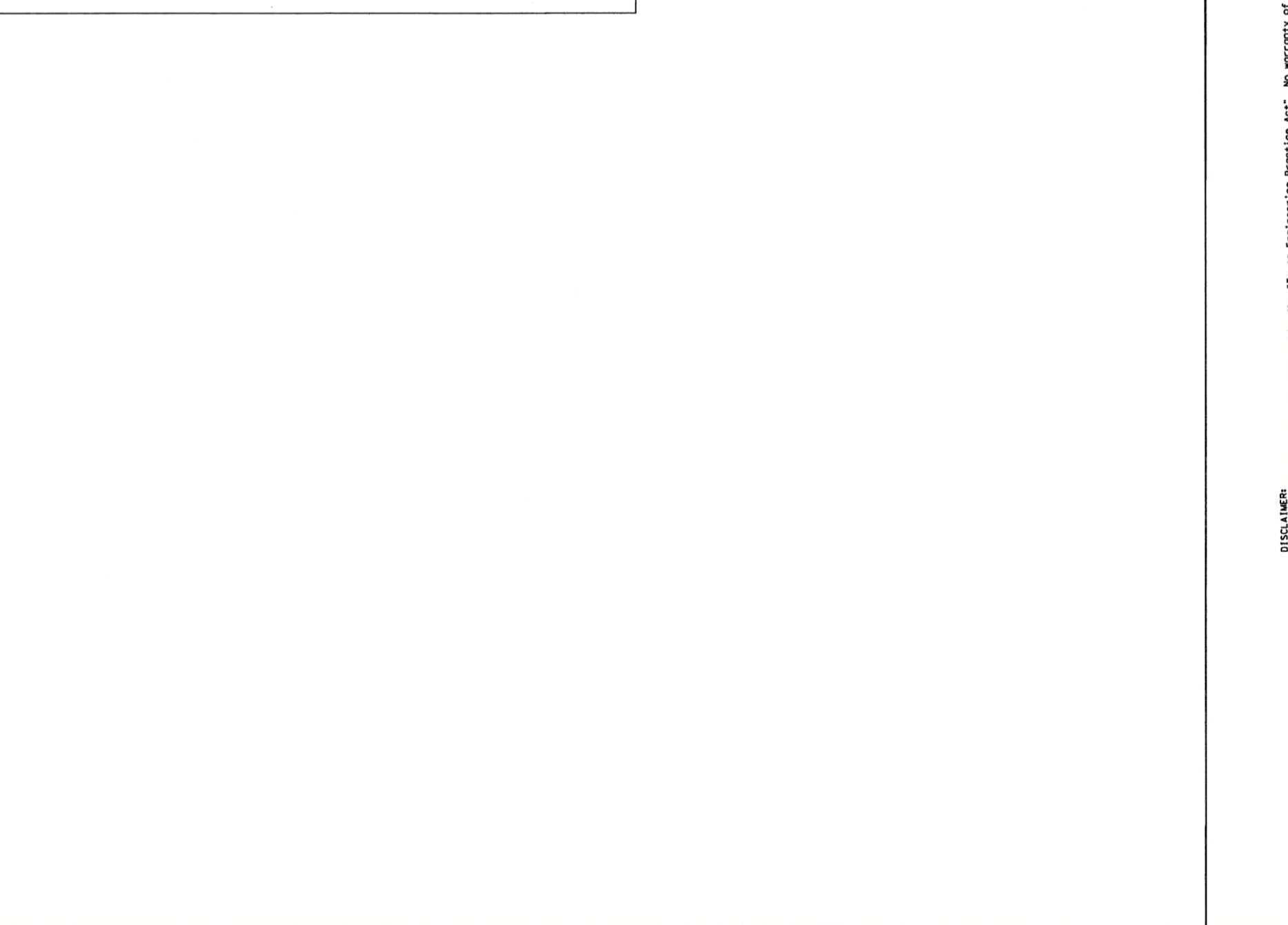
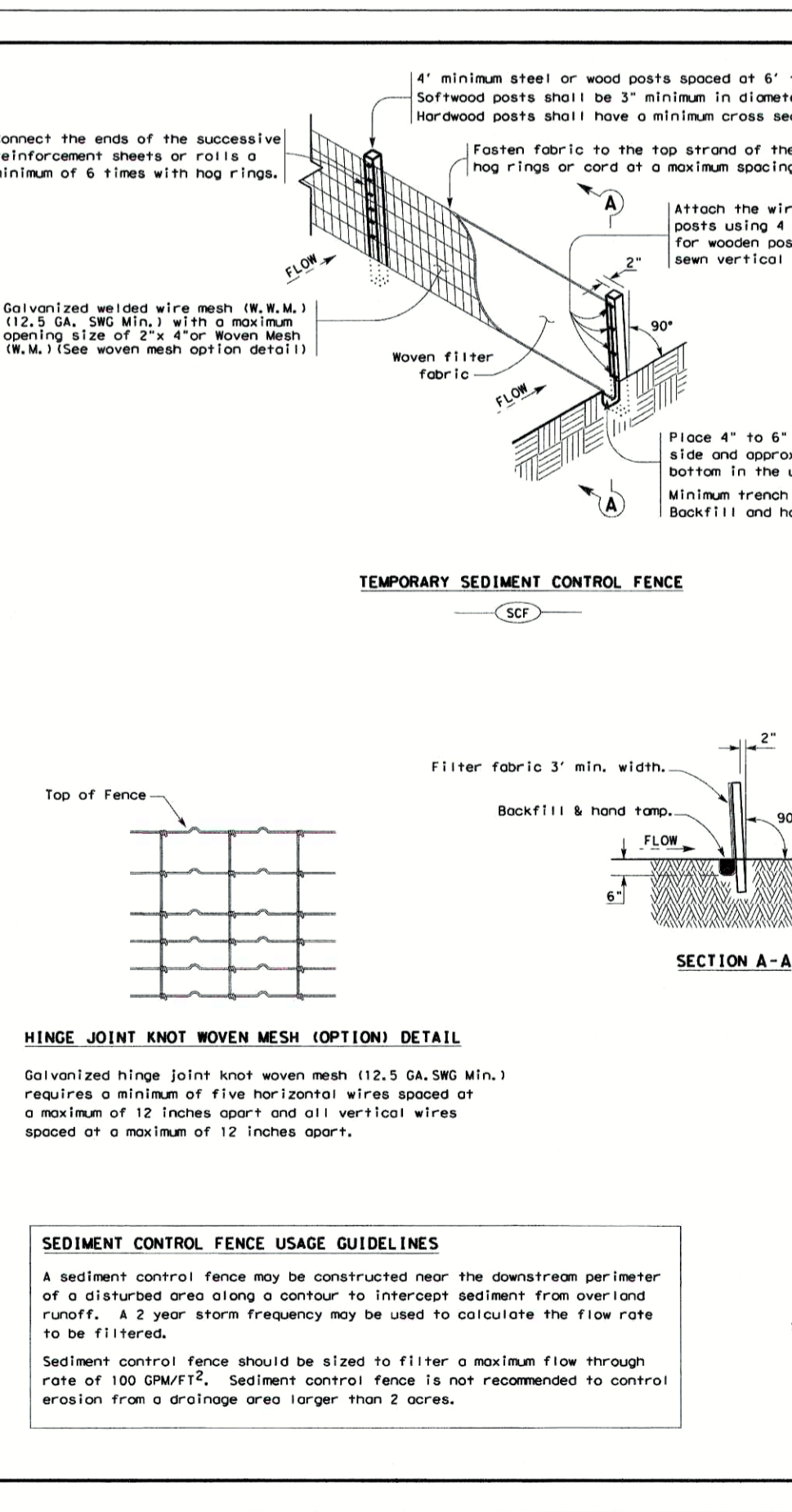


FIGURE 4.1 SCHEMATICS OF CONCRETE WASHOUT CONTAINMENT



TEMPORARY SEDIMENT CONTROL FENCE



DESIGN: CDE
CHECKED: HE jr.
APPROVED: CDE

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a maximum flow through rate of 100 GPM/ft². Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

Legend: Sediment Control Fence (SCF)

DESIGN: CDE
CHECKED: HE jr.
APPROVED: CDE

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: STAFF
DATE: 08/2020

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD

DETAIL NUMBER: EC-11

4 CUATRO CONSULTANTS, LTD.

HUGO ELIZONDO, P.E. 69781

REGISTERED PROFESSIONAL ENGINEER

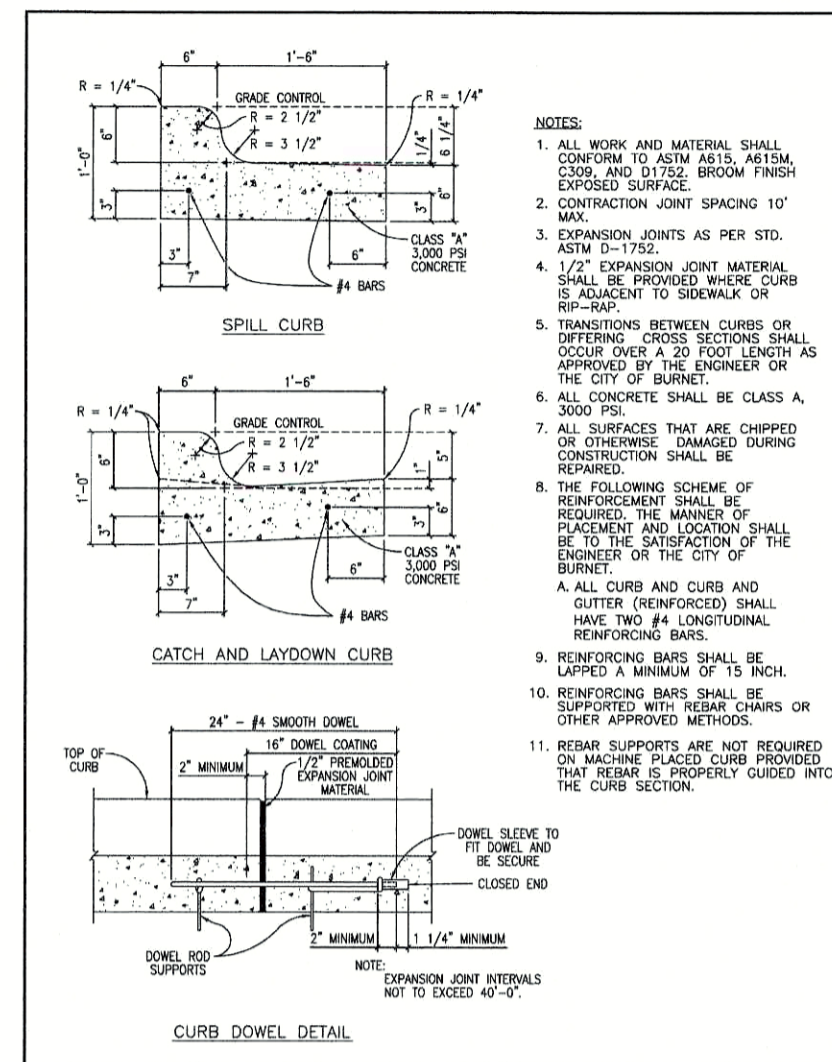
130 Revell Drive, Suite 208
Phone: (817) 918-5040 Fax: (817) 912-5399
San Marcos, Texas 78668 email: cuateiroconsultants@aol.com

EROSION CONTROL DETAILS

OAK VISTA DRIVE
STREET AND DRAINAGE IMPROVEMENTS
CITY OF BURNET, TEXAS

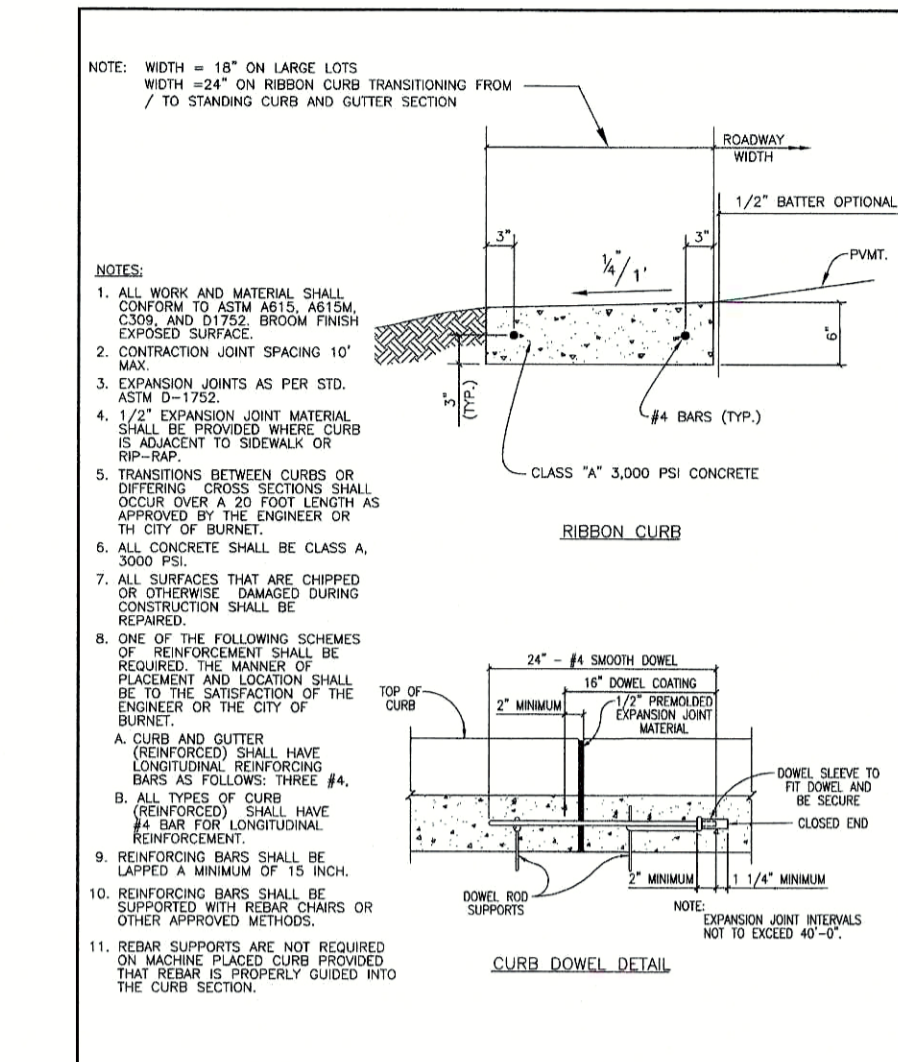
CLIENT: CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611

DATE: SEPTEMBER, 2022
PROJECT: 21-231.27
DRAWING'S NAME: 24_OV_EROSION CONTROL DETAILS
DESIGN: --- CHECKED: CDE
DRAWN: CDE APPROVED: HE jr.
SHEET: 24 OF 25



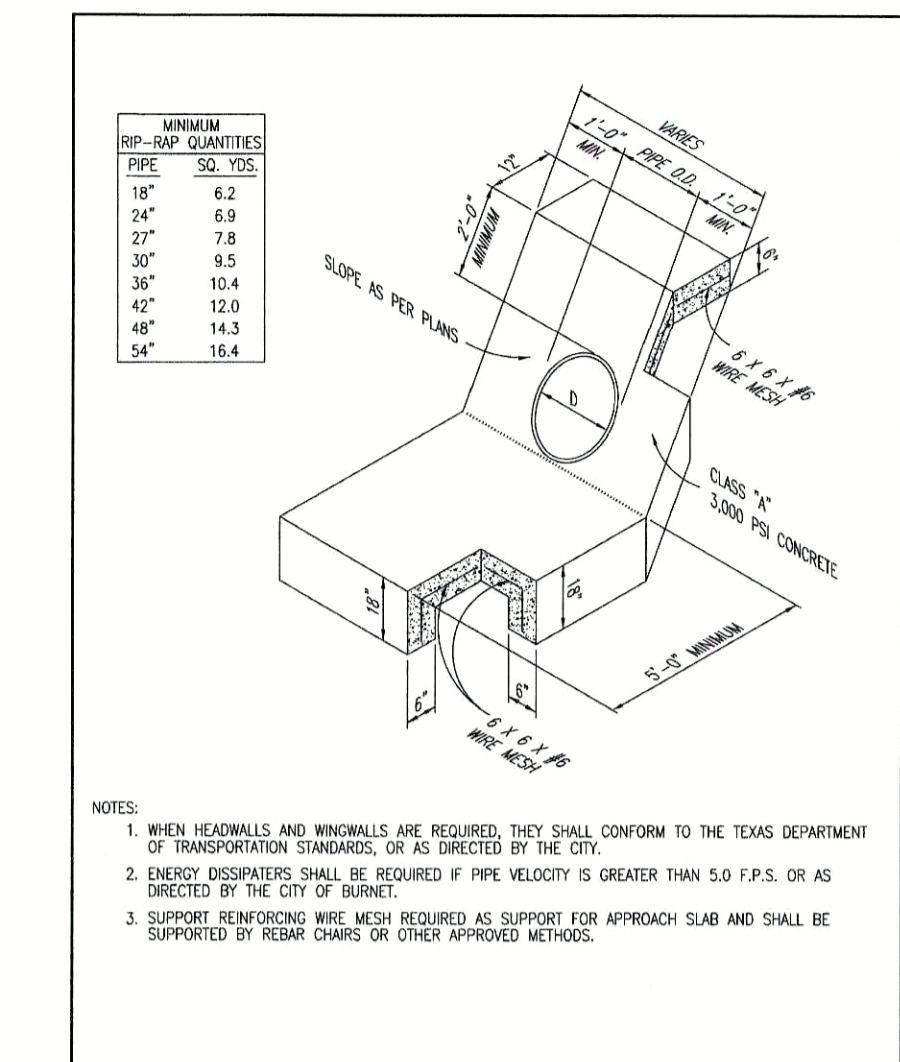
NOTES:

1. ALL WORK AND MATERIAL SHALL CONFORM TO THE CITY OF BURNET SPECIFICATIONS.
2. EXPANSION JOINTS AS PER STD. ROW 0-1702.
3. EXPANSION JOINTS AS PER STD. ROW 0-1702.
4. EXPANSION JOINTS AS PER STD. ROW 0-1702.
5. EXPANSION JOINTS AS PER STD. ROW 0-1702.
6. EXPANSION JOINTS AS PER STD. ROW 0-1702.
7. EXPANSION JOINTS AS PER STD. ROW 0-1702.
8. EXPANSION JOINTS AS PER STD. ROW 0-1702.
9. EXPANSION JOINTS AS PER STD. ROW 0-1702.
10. EXPANSION JOINTS AS PER STD. ROW 0-1702.
11. EXPANSION JOINTS AS PER STD. ROW 0-1702.



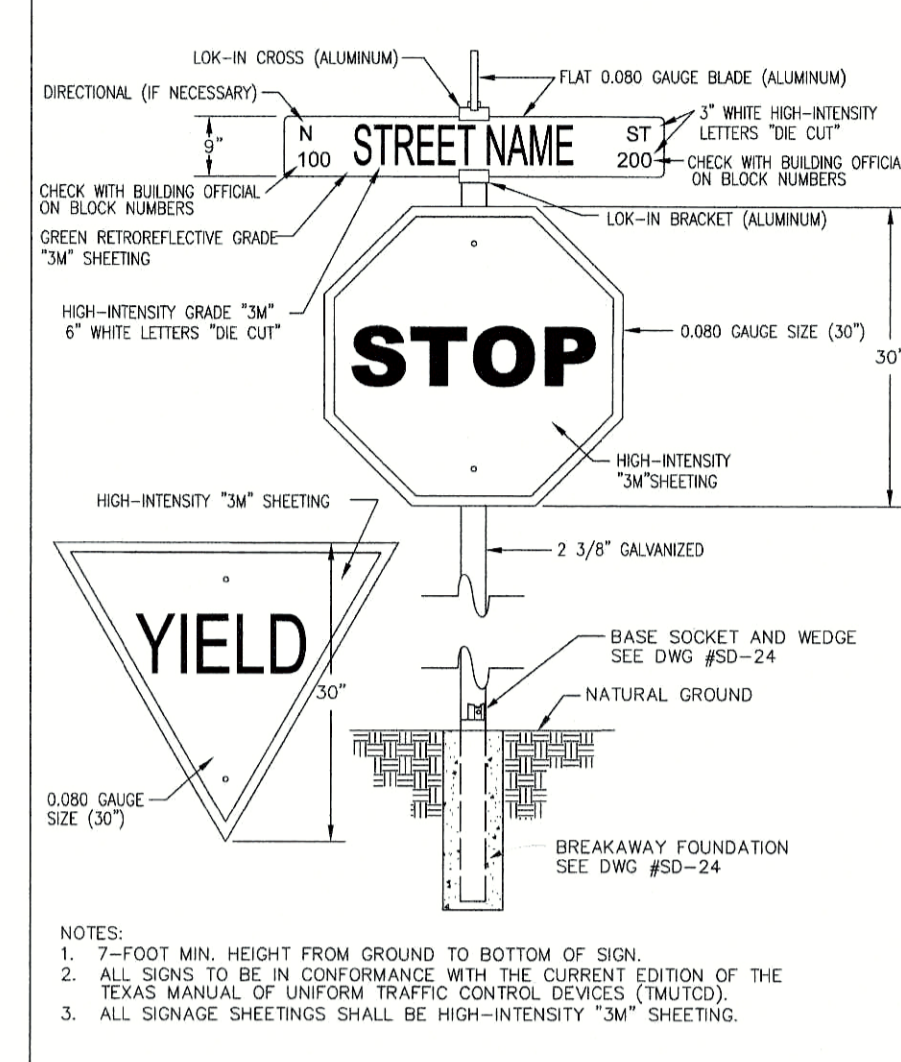
NOTES:

1. ALL WORK AND MATERIAL SHALL CONFORM TO THE CITY OF BURNET SPECIFICATIONS.
2. EXPANSION JOINTS AS PER STD. ROW 0-1702.
3. EXPANSION JOINTS AS PER STD. ROW 0-1702.
4. EXPANSION JOINTS AS PER STD. ROW 0-1702.
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9. EXPANSION JOINTS AS PER STD. ROW 0-1702.
10. EXPANSION JOINTS AS PER STD. ROW 0-1702.
11. EXPANSION JOINTS AS PER STD. ROW 0-1702.



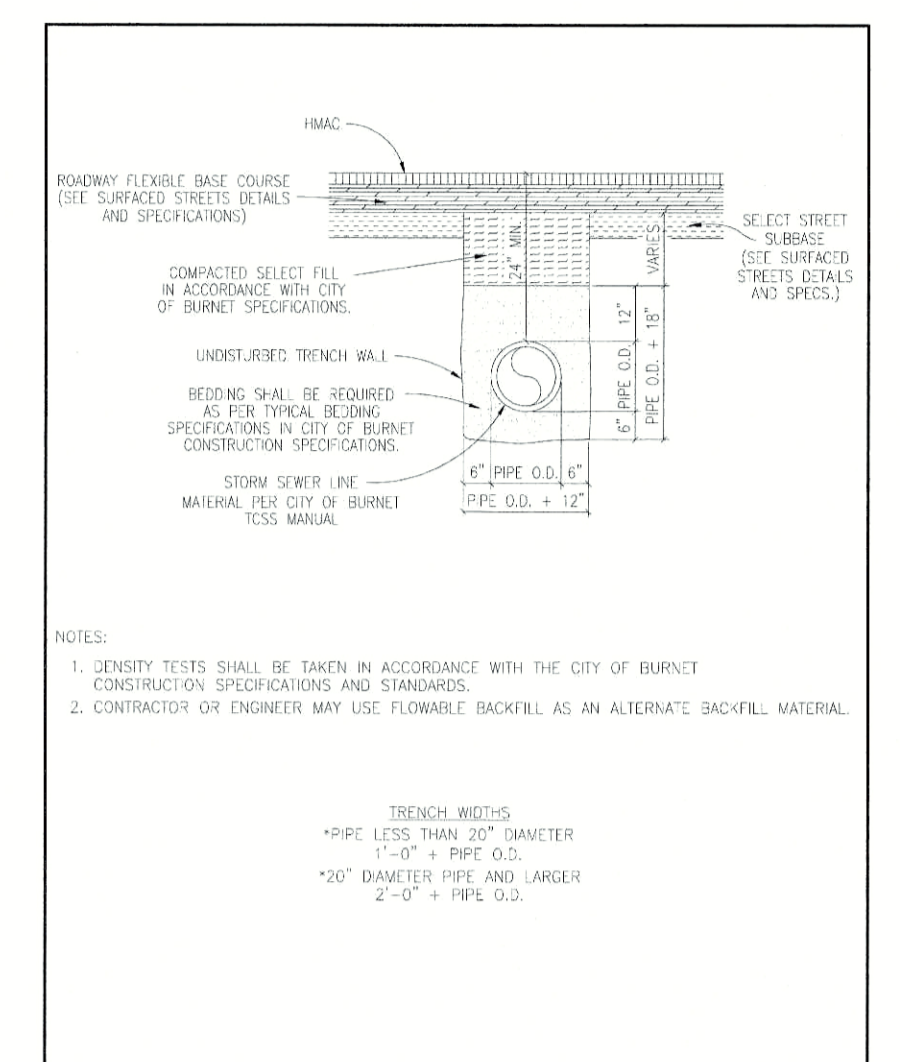
NOTES:

1. WHEN HEADWALLS AND WINGWALLS ARE REQUIRED, THEY SHALL CONFORM TO THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARDS, OR AS DIRECTED BY THE CITY.
2. EMBANKMENT HEADWALLS SHALL BE REQUIRED IF PIPE VELOCITY IS GREATER THAN 5.0 FPS, OR AS DIRECTED BY THE CITY OF BURNET.
3. SUPPORT REINFORCING WIRE MESH PROVIDED FOR APPROACH SLAB SHALL BE SUPPORTED BY REBAR CHAIRS OR OTHER APPROVED METHODS.



NOTES:

1. 7-FOOT MIN. HEIGHT FROM GROUND TO BOTTOM OF SIGN.
2. ALL SIGNS TO BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
3. ALL SIGNAGE SHEETINGS SHALL BE HIGH-INTENSITY "SM" SHEETING.



NOTES:

1. DENSITY TESTS SHALL BE TAKEN IN ACCORDANCE WITH THE CITY OF BURNET CONSTRUCTION SPECIFICATIONS AND STANDARDS.
2. CONTRACTOR OR ENGINEER MAY USE FLOWABLE BACKFILL AS AN ALTERNATE BACKFILL MATERIAL.

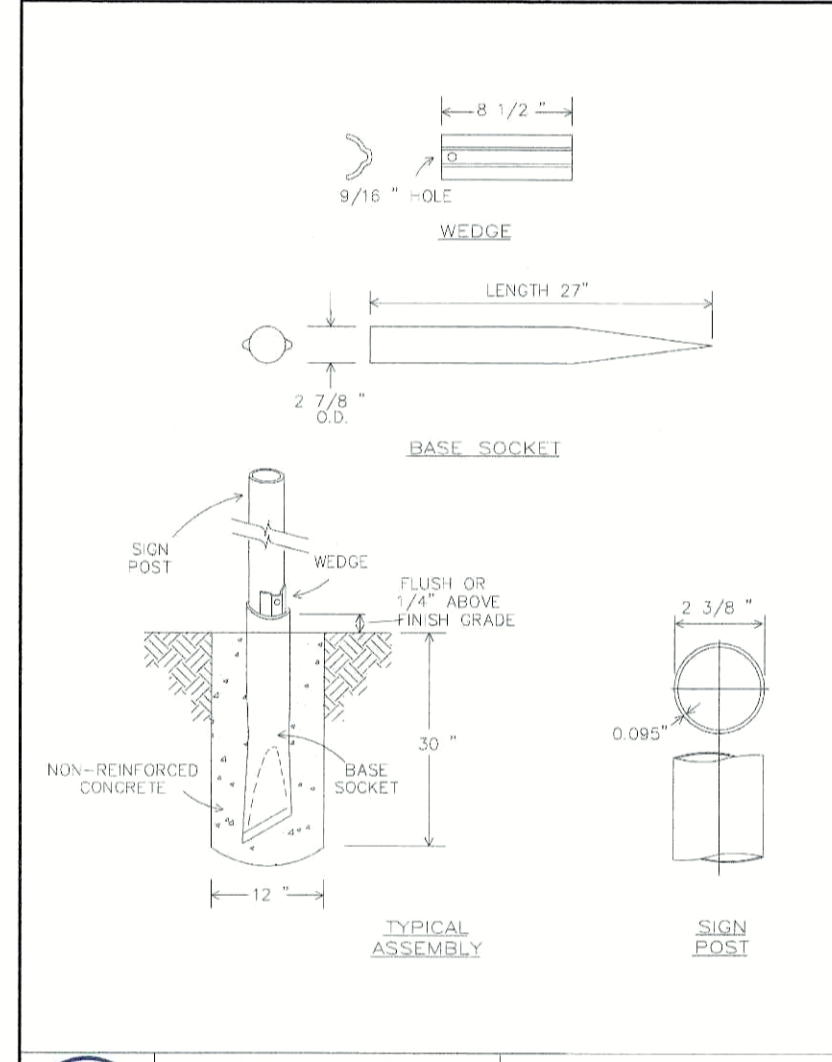
CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: STAFF
DATE: 08/2020
DETAIL NUMBER: SD-06

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: STAFF
DATE: 08/2020
DETAIL NUMBER: SD-08

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: STAFF
DATE: 08/2020
DETAIL NUMBER: SD-15

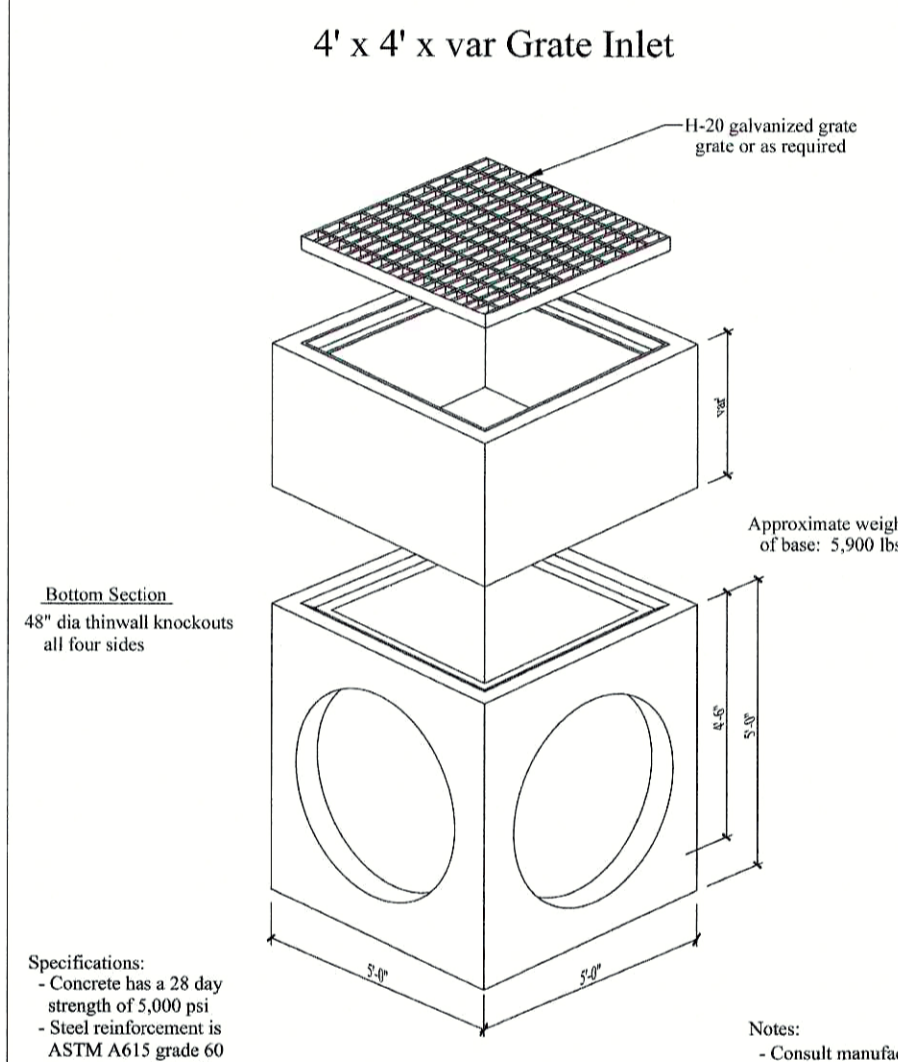
CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: STAFF
DATE: 11/2021
DETAIL NUMBER: SD-18

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: STAFF
DATE: 08/2020
DETAIL NUMBER: SD-20



NOTES:

1. ALL WORK AND MATERIAL SHALL CONFORM TO THE CITY OF BURNET SPECIFICATIONS.
2. EXPANSION JOINTS AS PER STD. ROW 0-1702.
3. EXPANSION JOINTS AS PER STD. ROW 0-1702.
4. EXPANSION JOINTS AS PER STD. ROW 0-1702.
5. EXPANSION JOINTS AS PER STD. ROW 0-1702.
6. EXPANSION JOINTS AS PER STD. ROW 0-1702.
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9. EXPANSION JOINTS AS PER STD. ROW 0-1702.
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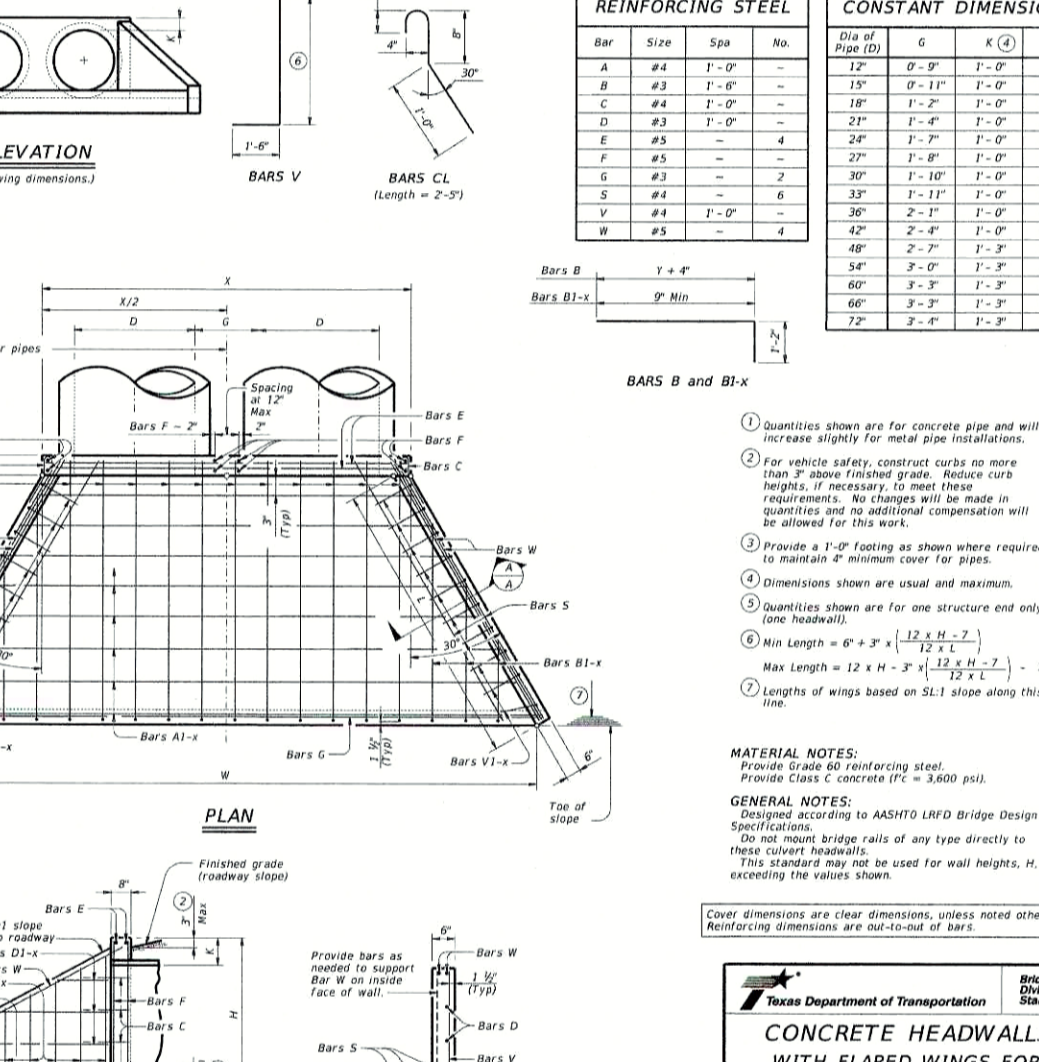


NOTES:

1. Concrete has a 28 day strength of 5000 psi.
2. Steel reinforcement is ASTM A615 grade 60.
3. Load design is H-20.

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL

W	H	L	W	H	L	W	H	L	W	H	L	W	H	L	W	H	L
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12



NOTES:

1. Quantities shown are for concrete pipe and with concrete slabs for head pipe reinforcement.
2. For safety, concrete slabs on pipe shall be placed on top of pipe.
3. Quantities shown are for one structure and only one headwall.
4. Max length = 12 x W x H x L x S.
5. Length of wing above slab is shown along this line.

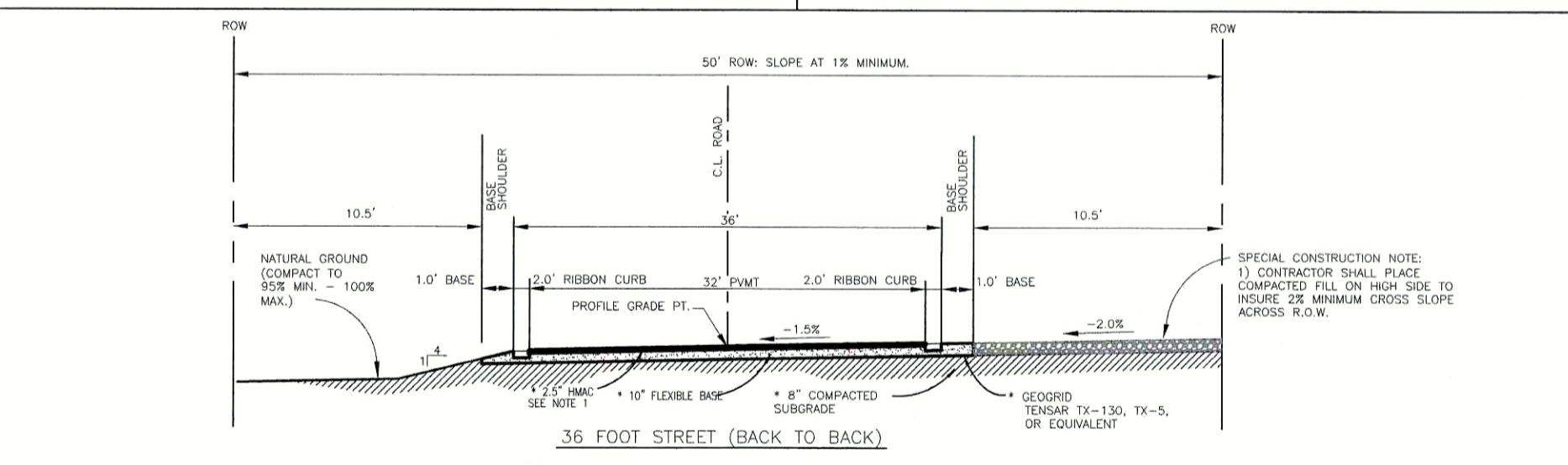
CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: STAFF
DATE: 08/2020
DETAIL NUMBER: SD-24

CAPITAL PRECAST, INC.
690 RUSTIC OLD BAYVIEW HWY
SAN MARCO, TEXAS 78666
TEL: 512.391.1211 FAX: 512.391.1212
www.capitalprecast.com

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: STAFF
DATE: 08/2020
DETAIL NUMBER: SD-15

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: STAFF
DATE: 11/2021
DETAIL NUMBER: SD-18

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: STAFF
DATE: 08/2020
DETAIL NUMBER: SD-20



NOTES:

1. ALL STREETS SHALL COMPLY WITH SECTION 200 OF THE CITY OF BURNET TECHNICAL CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL.
2. ALL VALUES ARE MINIMUMS AS REQUIRED BY THE TxDOT MANUAL. FINAL FINISH SECTIONS SHALL BE BASED ON A GEOTECHNICAL REPORT PERFORMED FOR THE SITE, AND AS APPROVED BY CITY ENGINEER.

SECTION

SECTION	HMAC	CLB	GEGRID	LSS
I. ALT 1	2-6"	10-0"	NO	8-0"
II. ALT 2	2-5"	10-0"	YES	NO

HMAC: HOT MIX ASPHALTIC CONCRETE
CLB: CRUSHED LIMESTONE BASE
GEGRID: GROUND STABILIZATION MATS
LSS: LIME STABILIZED SUBGRADE

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: STAFF
DATE: 08/2020
DETAIL NUMBER: SD-15

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: STAFF
DATE: 11/2021
DETAIL NUMBER: SD-18

CITY OF BURNET
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: STAFF
DATE: 08/2020
DETAIL NUMBER: SD-20

REVISION	DESCRIPTION	DATE

4 CUATRO CONSULTANTS
Registration No. F-5324
150 Newhall Drive, Suite 208
San Antonio, Texas 78248
Phone: (512) 312-5500 Fax: (512) 312-5539
Email: contact@fourcuatro.com

STREET AND DRAINAGE DETAILS
OAK VISTA DRIVE
STREET AND DRAINAGE IMPROVEMENTS
CITY OF BURNET, TEXAS

CLIENT:
CITY OF BURNET
1001 BUCHANAN DRIVE, SUITE 4
BURNET, TEXAS 78611

DATE: SEPTEMBER, 2022
PROJECT: 21-231.27
DRAWING'S NAME: 25_OV_STREET AND DRAINAGE DETAILS
DESIGN: --- **CHECKED:** CDE
DRAWN: CDE **APPROVED:** HE Jr.
SHEET: 25 OF 25