

FINAL PLANS

NAME OF CONTRACTOR: _____
 DATE OF LETTING: _____
 DATE WORK BEGAN: _____
 DATE WORK COMPLETED: _____
 DATE WORK ACCEPTED: _____

SUMMARY OF CHANGE ORDERS:

ATTACHMENT NO. 1-24 TO SPECIAL AGREEMENT FOR CONSTRUCTION, MAINTENANCE, AND OPERATION OF CONTINUOUS HIGHWAY LIGHTING SYSTEMS WITHIN A MUNICIPALITY (FREEWAYS OR EXPRESSWAYS) (SPECIFIC LIMITS) DATED 9/16/2024. THE CITY-STATE CONSTRUCTION, MAINTENANCE, AND OPERATION RESPONSIBILITIES SHALL BE AS HERETOFORE AGREED TO, ACCEPTED, AND SPECIFIED IN THE AGREEMENT TO WHICH THESE PLANS ARE MADE A PART.

Swamy Debn
 CITY OF MCINNEY DATE 10-02-2024

VOLUME II

STATE OF TEXAS
 DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
 STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT
 F 2025 (482)
 CSJ: 0047-05-057, ETC.

SH 5, ETC.
 COLLIN COUNTY

SH 5
 A.D.T. (2025) = 35,800
 A.D.T. (2045) = 47,950

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	F 2025 (482)		SH 5, ETC.
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	DAL	COLLIN	1
CONTROL	SECTION	JOB	
0047	05	057, etc.	

DESIGN SPEEDS = 60 MPH (SS 399 MAINLANES SOUTH OF STEWART RD BRIDGE)
 40 MPH (SS 399 MAINLANES NORTH OF STEWART RD BRIDGE, SH 5 MAINLANES, HARRY MCKILLOP BLVD (FM 546), EL DORADO PKWY / INDUSTRIAL BLVD, FRONTAGE ROADS, RAMPS)
 30 MPH ALL OTHER CROSS STREETS

FUNCTIONAL CLASSIFICATION:
 URBAN PRINCIPAL ARTERIAL:
 SS 399 MAINLANE, SH 5 MAINLANE, UNIVERSITY DR (US 380), RAMPS
 URBAN MINOR ARTERIAL:
 HARRY MCKILLOP BLVD (FM 546), ELDORADO PKWY / INDUSTRIAL BLVD
 URBAN COLLECTOR:
 STEWART RD, E VIRGINIA ST, E LOUISIANA ST, TENNESSEE ST, FRONTAGE ROADS
 URBAN/RURAL LOCAL:
 ALL OTHER STREETS

SS 399
 LIMITS: AT SH 5
 CCSJ: 0364-04-049
 ROADWAY = 2,410.00 FT. = 0.456 MI.
 BRIDGE = 803.00 FT. = 0.152 MI.
 TOTAL = 3,213.00 FT. = 0.609 MI.

SS 399
 LIMITS: FROM: US 75
 TO: SH 5
 CCSJ: 0364-04-051
 ROADWAY = 4,682.31 FT. = 0.887 MI.
 BRIDGE = 277.39 FT. = 0.053 MI.
 TOTAL = 4,954.70 FT. = 0.939 MI.

SH 5
 LIMITS: FROM: STEWART ROAD
 TO: EL DORADO PARKWAY
 CCSJ: 0047-05-057
 ROADWAY = 5,659.00 FT. = 1.072 MI.
 BRIDGE = 1,411.52 FT. = 0.105 MI.
 TOTAL = 6,212.00 FT. = 1.177 MI.

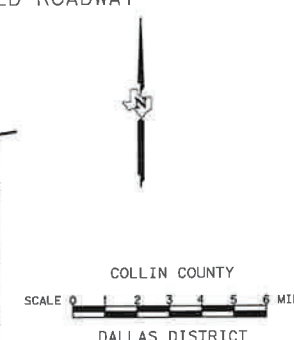
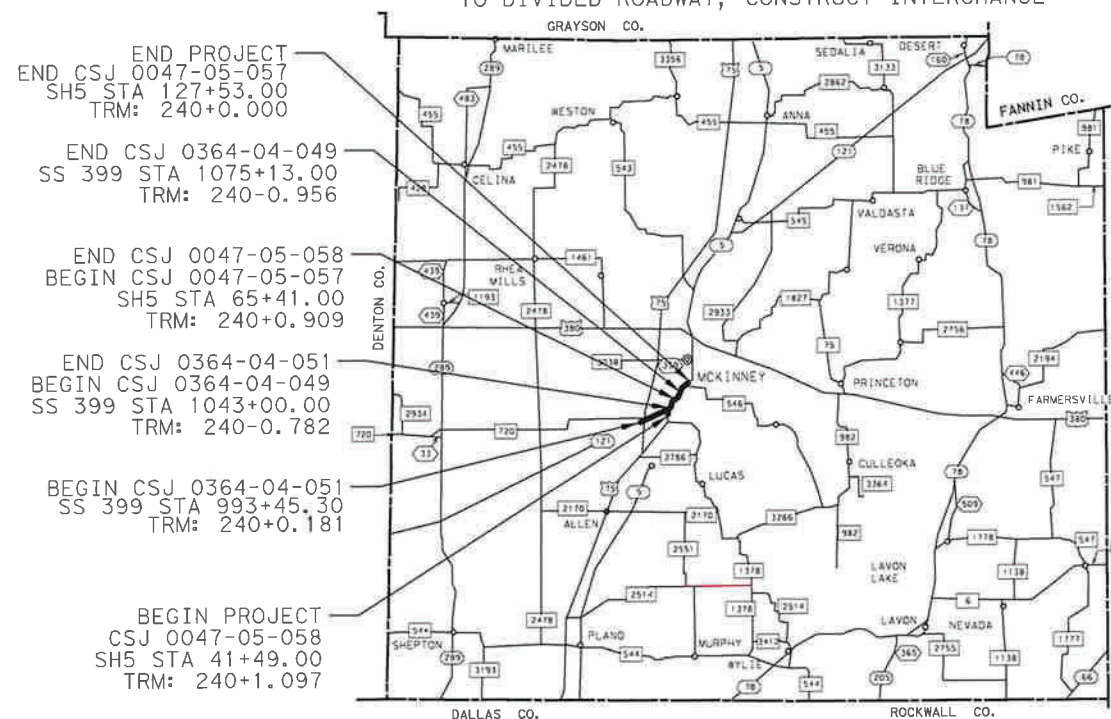
SH 5
 LIMITS: FROM: SPUR 399 INTERSECTION
 TO: STEWART RD
 CCSJ: 0047-05-058
 ROADWAY = 2,392.00 FT. = 0.453 MI.
 BRIDGE = 0.00 FT. = 0.00 MI.
 TOTAL = 2,392.00 FT. = 0.453 MI.

TYPE OF WORK: WIDEN NON-FREEWAY AND FREEWAY, INTERCHANGE (NEW OR RECONSTRUCTED). NEW LOCATION FREEWAY
 CONSISTING OF: RECONSTRUCT AND WIDEN FREEWAY AND CONSTRUCT CONTINUOUS FRONTAGE ROADS, RECONSTRUCT AND WIDEN UNDIVIDED ROADWAY TO DIVIDED ROADWAY, CONSTRUCT INTERCHANGE

NOTE:

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, SEPTEMBER 1, 2024, AND THE CONTRACT PROVISIONS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, OCTOBER 23, 2023)

Registered Accessibility Specialist (RAS) inspection required. TDLR No. TABS202402304



HDR
 HDR
 Firm Registration No. F-754
 17111 Preston Road, Suite 200
 Dallas, Texas 75248-1229
 972.960.4400

SUBMITTED FOR LETTING: 10/01/2024

[Signature], P.E.
 CONSULTANT DESIGN ENGINEER OR PROJECT MANAGER

TEXAS DEPARTMENT OF TRANSPORTATION

WORK WAS COMPLETED ACCORDING TO THE PLANS AND CONTRACT.

Signature of Registrant _____, P.E. & Date _____

EQUATIONS: NONE
 EXCEPTIONS: NONE
 RAILROAD CROSSINGS: NONE

RECOMMENDED 10/2/2024
 DocuSigned by:
Jennifer Vorster, P.E.
 4DB68ED9336D4F7...

RECOMMENDED 10/2/2024
 Signed by:
James P. Campbell, P.E.
 98671C109B6A4C3...
 TRANSPORTATION PLANNING & DEVELOPMENT

APPROVED 10/2/2024
 DocuSigned by:
Casson Clemens, P.E.
 A879E0D10CD6464...
 JEER

VOLUME 1

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+ THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME, OR UNDER MY RESPONSIBLE SUPERVISION, AS BEING APPLICABLE TO THIS PROJECT.

Mohammed S. Ula
MOHAMMED S. ULA, P.E.

11/14/2024
DATE



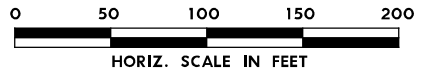
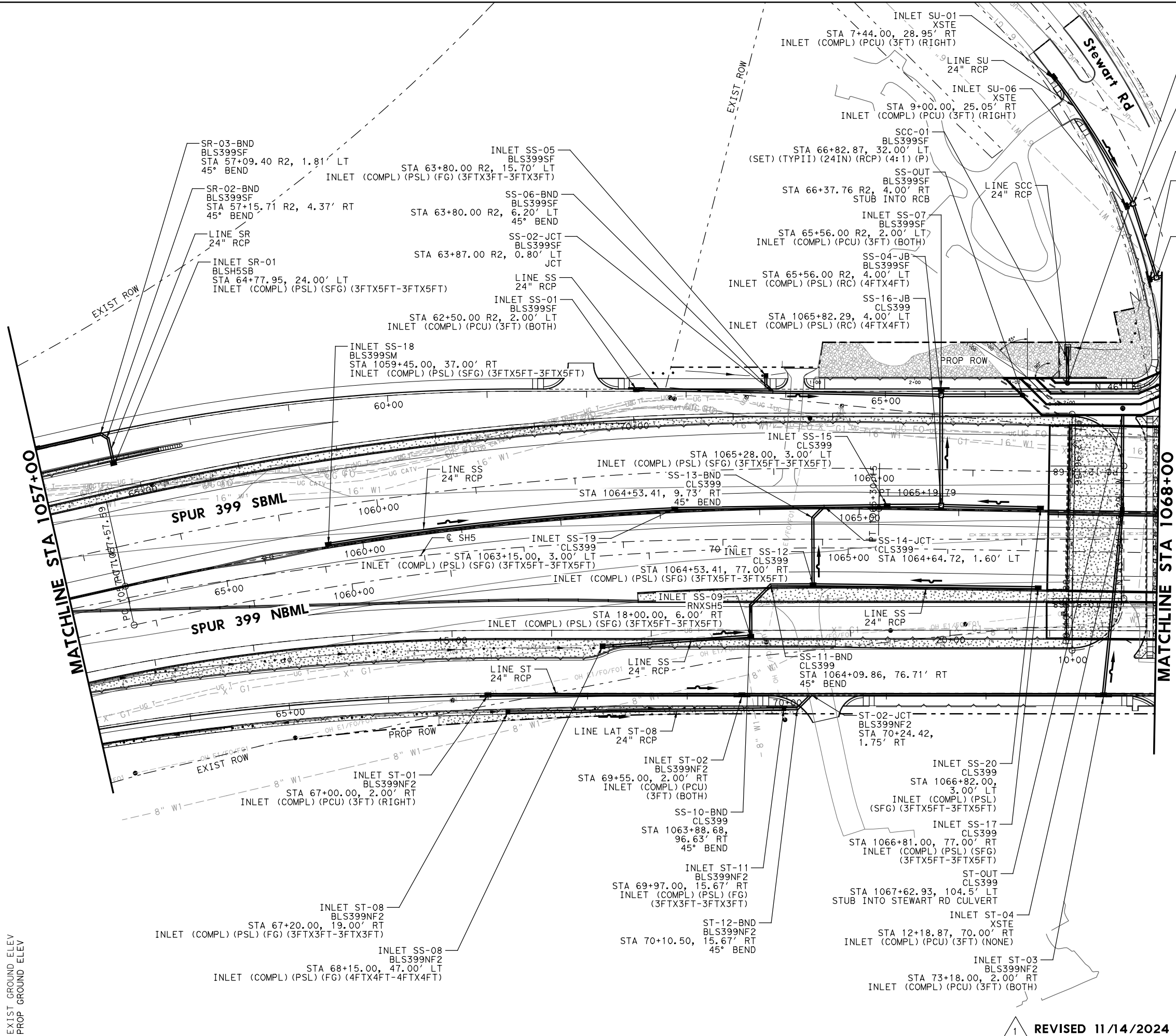
THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME, OR UNDER MY RESPONSIBLE SUPERVISION, AS BEING APPLICABLE TO THIS PROJECT.

Brian Verwijst, P.E.

11/14/2024
DATE

NO.		DATE		REVISION		APPROVED
HDR HDR Engineering, Inc. Firm Registration No. F-754 17111 Preston Road, Suite 300 Dallas, Texas 75248 972.960.4400						
Texas Department of Transportation © 2024						
SH 5 INDEX OF SHEETS						
N. T. S. SHEET 1 OF 5						
DESIGN	FED. RD. DIV. NO.	FEDERAL-AID PROJECT NO.			HIGHWAY NO.	
AKS	6	SEE TITLE SHEET			SH5, ETC.	
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.		
AKS	TEXAS	DAL	COLLIN	709		
CHECK	CONTROL	SECTION	JOB			
MH	JMD	0047	05			057, ETC.

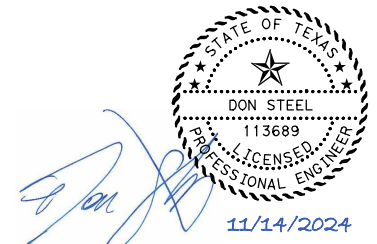
EXIST GROUND ELEV
PROP GROUND ELEV



LEGEND

- DRAINAGE DITCH
- PROPOSED DRAINAGE
- PIPE FLOW DIRECTION
- RETAINING WALL
- PIPE REMOVAL

- NOTES:**
- REFERENCE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
 - REFERENCE CULVERT SHEETS FOR ADDITIONAL INFORMATION.
 - ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO FIELD VERIFY ALL OFF SITE STORM SEWER LOCATIONS, ELEVATIONS, SIZES, AND MATERIALS PRIOR TO ORDERING CONNECTING PIPE, MANHOLES, OR JUNCTION BOXES.
 - THE ELEVATION AND LOCATION OF ALL UTILITIES ARE APPROXIMATE. CONTRACTOR TO VERIFY AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.



NO.	DATE	REVISION	APPROVED

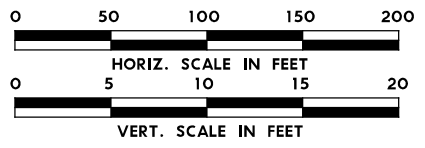
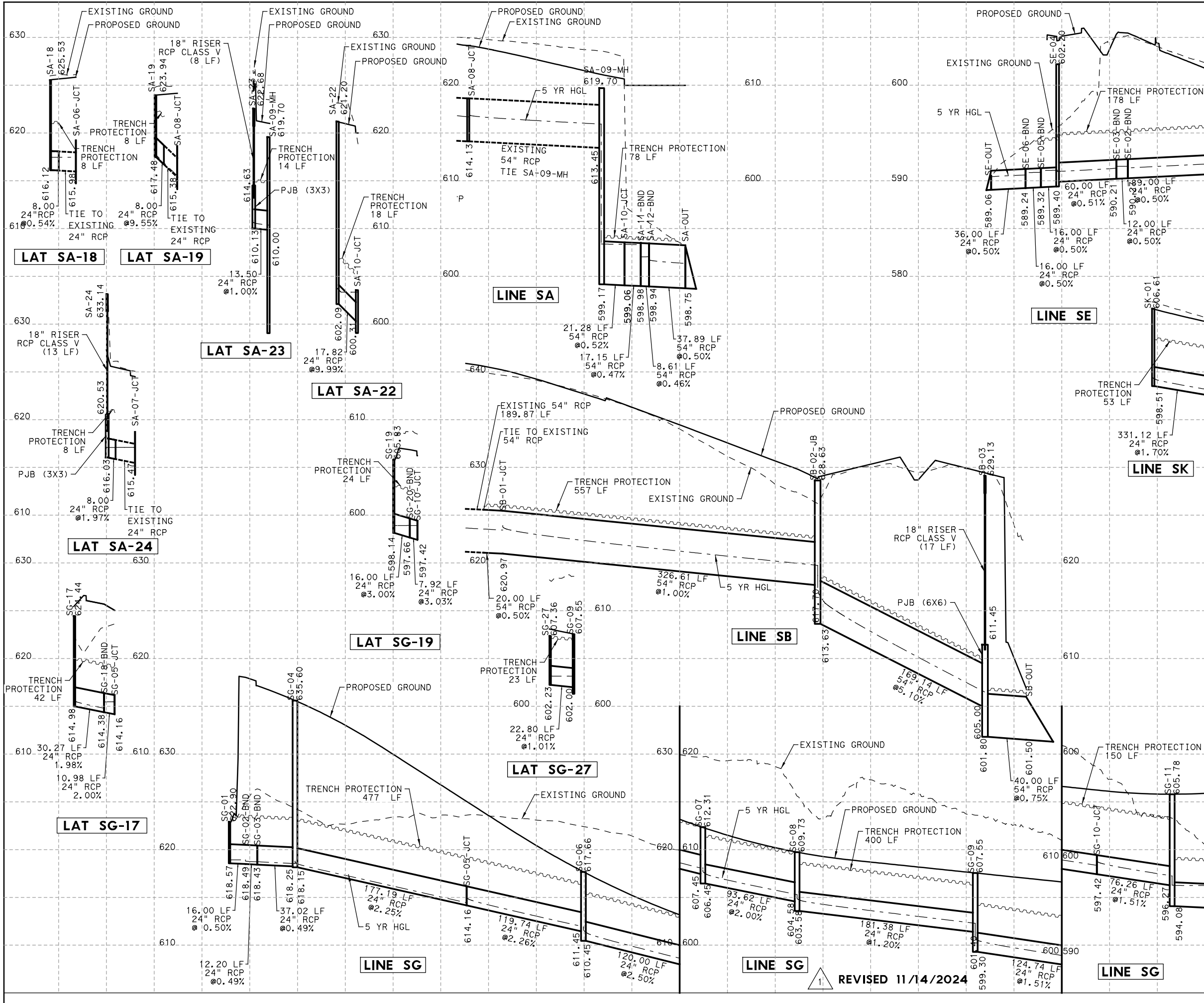


**SPUR 399
DRAINAGE PLAN
STA 1057+00 TO STA 1068+00**

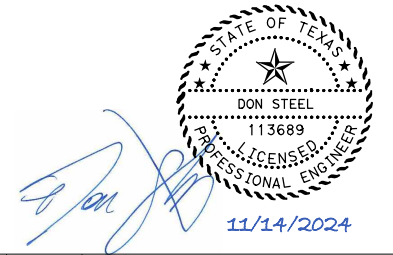
SCALE: 1"=100' SHEET 7 OF 16

DESIGN	FED. RD. DIV. NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
GRAPHICS	6	SEE TITLE SHEET		SH5, ETC.
CHECK	TEXAS	DAL	COLLIN	SHEET NO.
CHECK	CONTROL	SECTION	JOB	761
	0047	05	057, ETC.	

1 REVISED 11/14/2024



MATCHLINE STA 1040+00



NO.	DATE	REVISION	APPROVED



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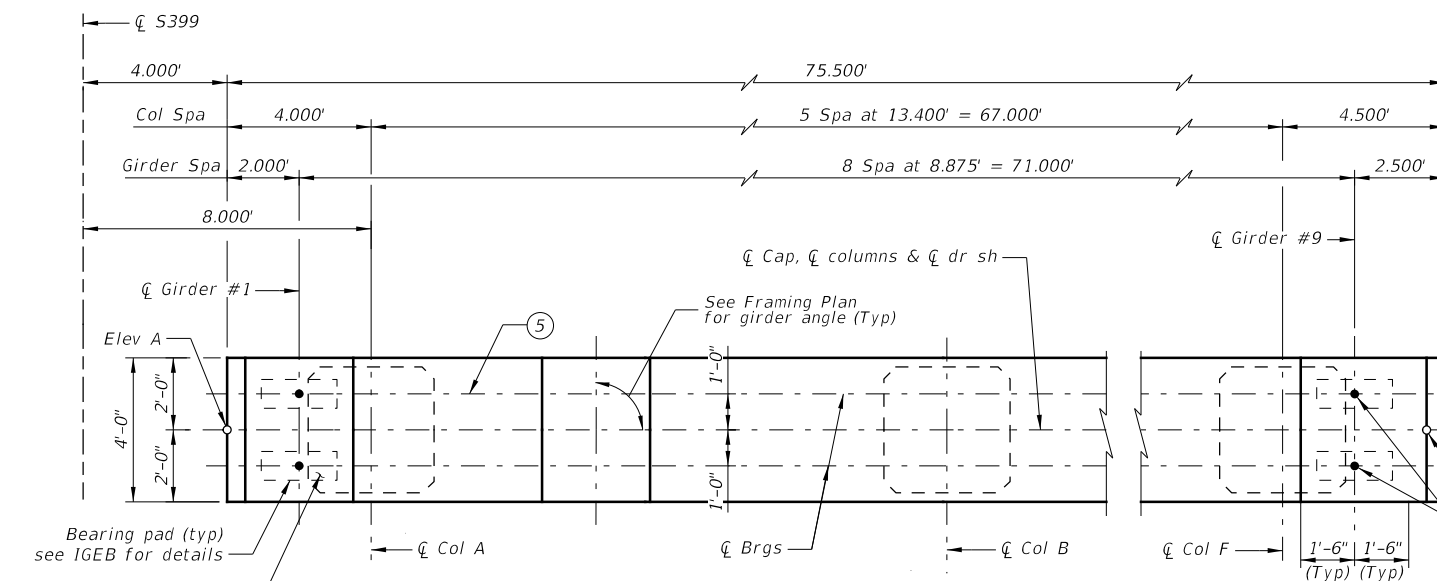
**SPUR 399
DRAINAGE PROFILE
STA 1028+00 TO STA 1040+00**

SCALE: 1" = 100' - H
1" = 10' - V
SHEET 4 OF 16

DESIGN	FED. RD. DIV. NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
	6	SEE TITLE SHEET		SH5, ETC.
CHECK	TEXAS	DAL	COLLIN	SHEET NO.
CHECK	CONTROL	SECTION	JOB	774
	0047	05	057, ETC.	

REVISED 11/14/2024

PLOT DRIVER: TXDOT_PDF_BW.plt
 USER: HTEMERY DATE: 11/5/2024
 FILE: SP_399 NB OVERPASS AT STEWART RD - Bent #2-3



"H"	Bars H 12'-10" ~ #3		Bars V 84 ~ #9		Bars V2 48 ~ #5		Bars Z 6 ~ #4		Est Quant 6 Col	
	Number	Weight	Length	Weight	Length	Weight	Length	Weight	Reinf Steel	CL C(HPC) Conc (Col)
17'	210	1014	20'-3"	5,784	16'-10"	843	670'-0"	2,686	10,327	45.5
18'	222	1072	21'-3"	6,069	17'-10"	893	707'-9"	2,837	10,871	48.2
19'	234	1130	22'-3"	6,355	18'-10"	943	745'-6"	2,988	11,416	50.8
20'	246	1188	23'-3"	6,641	19'-10"	993	783'-3"	3,140	11,962	53.5
21'	258	1245	24'-3"	6,926	20'-10"	1043	821'-0"	3,291	12,505	56.2
22'	270	1303	25'-3"	7,212	21'-10"	1094	858'-9"	3,442	13,051	58.9
23'	282	1361	26'-3"	7,497	22'-10"	1144	896'-6"	3,594	13,596	61.5

Bar	No.	Size	Length	Weight
A	6	#11	82'-0"	2,614
B	6	#11	80'-5"	2,564
D	4	#9	1'-8"	23
E	9	#5	7'-1"	67
F	5	#5	3'-7"	19
S	96	#5	15'-4"	1,536
T	10	#5	77'-0"	804
Reinforcing Steel			LB	7,627
CL C (HPC) Conc (Cap)			CY	45.5

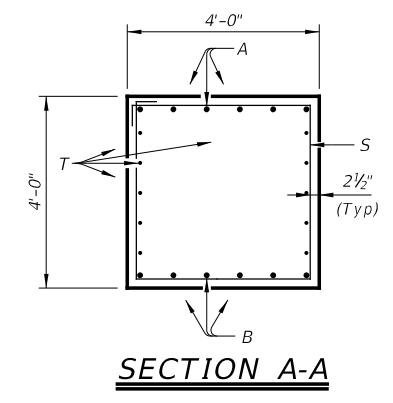
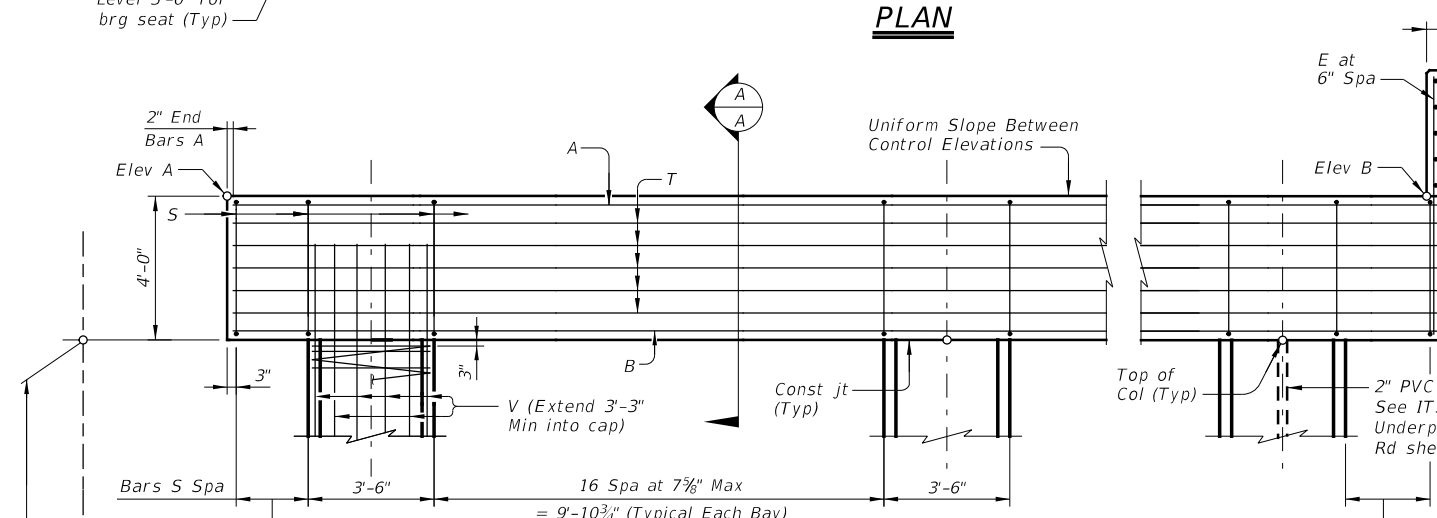
- Quantities shown are for one bent only.
- For each linear half foot variation in "H" value, make the following adjustments per column:
 Bars V length, 6"
 Bars Z length, 18'-11"
 Reinforcing steel, 37 Lb
 Class "C" (HPC) Conc (Col), 0.3 CY
- Measured parallel to top of cap cross-slope. (Not used)
- Exclude Dowels "D" at Bent No. 4 and deduct 23 lbs of reinforcing steel.
- No girders are placed on the Bent No.4 forward side in this project. The drilled shaft loads for this bent assume a future span length of 87'.
- For contractor's information only.
- For all columns.

GENERAL NOTES:
 Designed according to AASHTO LRFD Bridge Design Specifications, 9th Edition (2020) and TxDOT Bridge Design Manual - LRFD (Jan 2023).
 See Common Foundation Details (FD) standard sheet for all foundation details and notes not shown.
 Calculated Foundation Loads = 177 Tons/Drilled Shaft.
 Cap Form Supports shall remain in place until the entire cap is ready for form removal.
 The bearing seats shall receive a wood float finish.

Cover dimensions are clear dimensions, unless noted otherwise.
 Reinforcing bar dimensions shown are out-to-out of bar.

MATERIAL NOTES:
 Provide Class C (HPC) concrete (f'c = 3,600 psi).
 Galvanize dowel bars D.
 Provide Grade 60 reinforcing steel with bar laps as follows:
 Bars A ~ 6'-10"
 Bars B ~ 5'-3"
 Bars T ~ 1'-10"

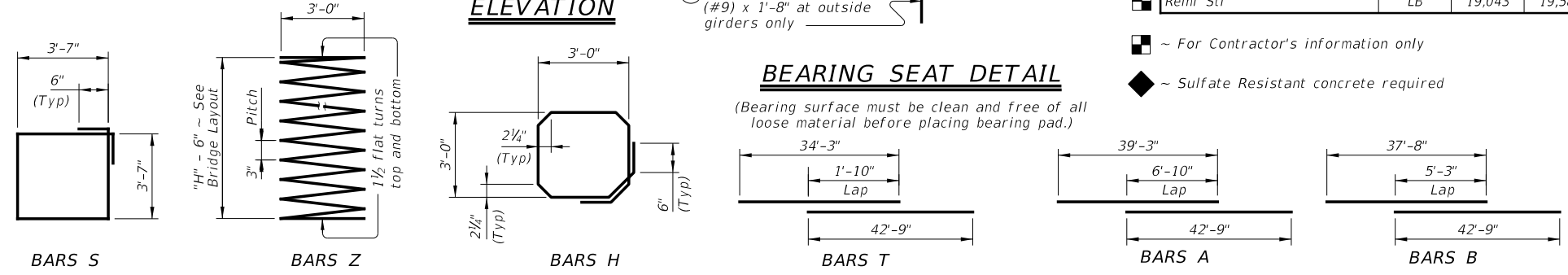
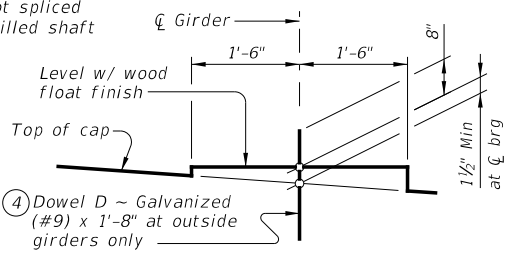
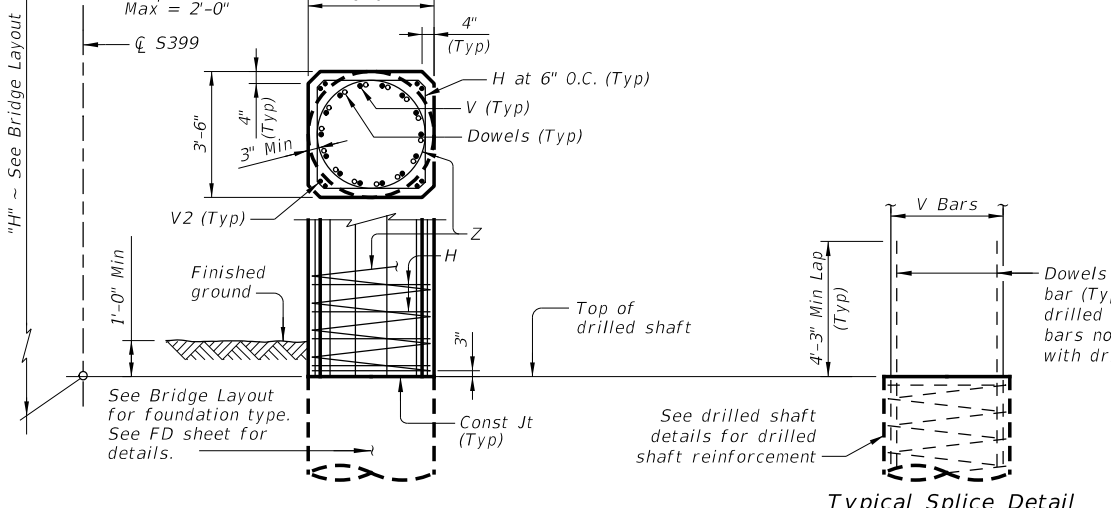
REVISED 11/14/2024



Bent	Top of Bent		Top of Columns					
	Elev A	Elev B	Col A	Col B	Col C	Col D	Col E	Col F
2	576.96	575.09	572.86	572.53	572.19	571.86	571.52	571.19
3	577.71	575.84	573.61	573.28	572.94	572.61	572.27	571.94
4	578.37	576.49	574.27	573.93	573.60	573.26	572.93	572.59

Item	Unit	Quantity		
		Bent 2	Bent 3	Bent 4
Drill shaft (42")	LF	180	180	180
CLC C Conc (Cap) (HPC)	CY	45.5	45.5	45.3
CLC C Conc (Col) (HPC)	CY	50.8	53.5	56.2
Reinf Stl	LB	19,043	19,589	20,109

- ~ For Contractor's information only
- ~ Sulfate Resistant concrete required



HL93 LOADING



HDR Engineering, Inc.
 Firm Registration No. F-754
 17111 Preston Road, Suite 300
 Dallas, Texas 75248
 972.960.4400

Sheet 1 of 1 Sheets



SPUR 399
 NBML OVERPASS AT STEWART RD
 INTERIOR BENT NOS. 2-4

FILE:	DN:	HOT	CK:	CLS	DW:	JCH	EX:	CLS
TXDOT	2024							
REVISIONS	0047	05	057, ETC.					SH5, ETC.
DIST	DAL		COUNTY					SHEET NO.
			COLLIN					903