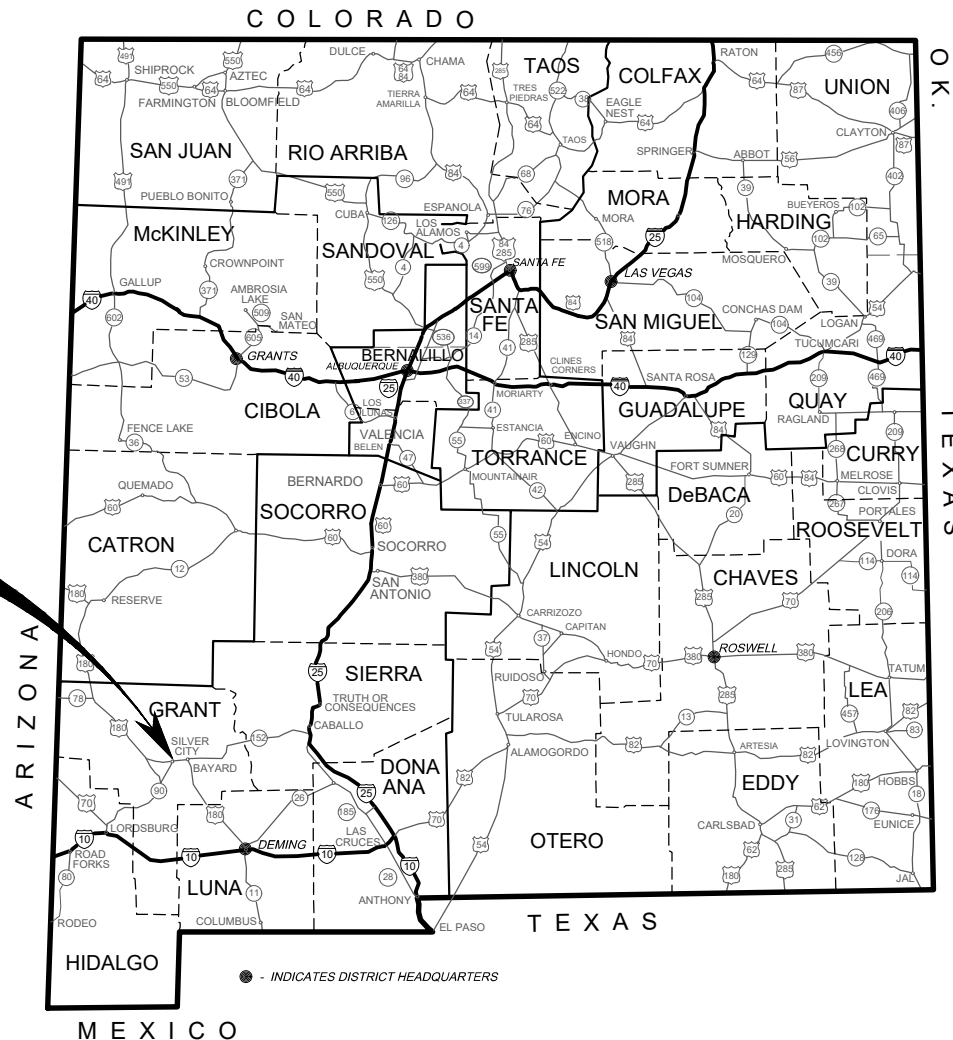


GRANT COUNTY CONSTRUCTION PLANS

GRANT COUNTY TRUCK BYPASS WIDENING & CULVERT REPLACEMENT JANUARY 2023 Bid No. B-23-02



N.M.P. - CN: B-22-06
PROJECT TERMINI: NM
MILE POST 0.000
EAST FOR 1.872 MILES
TO MILEPOST 1.872
GRANT COUNTY



3500 Sedona Hills Parkway
Las Cruces, NM 88011
(575) 386-5454
www.soudermiller.com



























NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

Length Of Project 1.872 Miles

PROJECT BEGINS WITHIN SECTION 08, TOWNSHIP 18 SOUTH, RANGE 14 WEST AND PROJECT ENDS WITHIN SECTION 10, TOWNSHIP 18 SOUTH, RANGE 14 WEST.

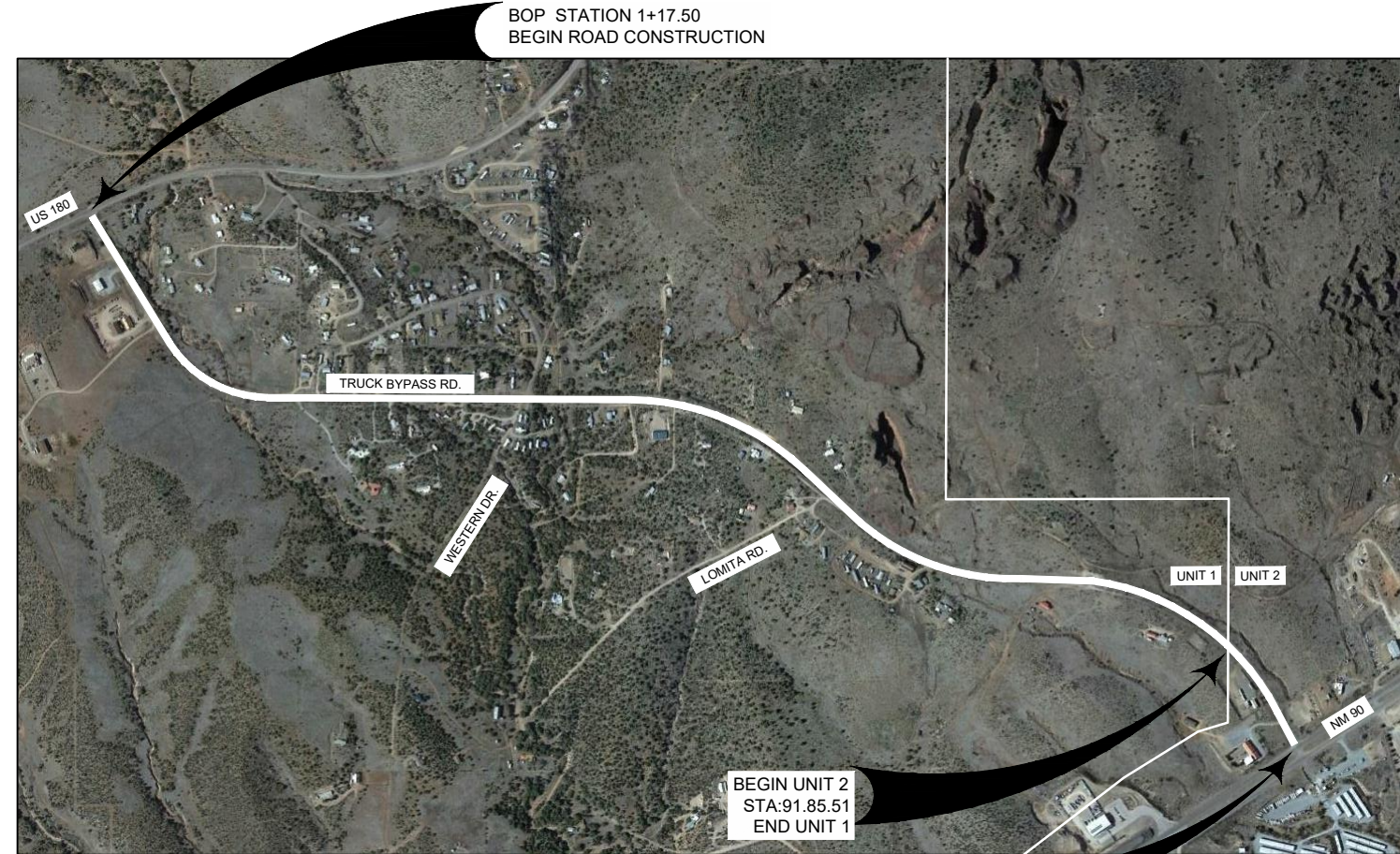


LEGEND

-  EXISTING SINGLE POST SIGN
-  EXISTING DOUBLE POST SIGN
-  EXISTING BOLLARD
-  EXISTING TREE-DECIDUOUS
-  EXISTING EDGE OF PAVEMENT
-  EXISTING CENTERLINE OF ROAD
-  EXISTING EDGE OF DIRT ROAD
-  EXISTING METAL BARRIER
-  EXISTING GRADE BREAKS
-  EXISTING RIGHT OF WAY
-  EXISTING FENCE
-  PROPOSED FENCE
-  PROPOSED CENTERLINE CONSTRUCTION
-  PROPOSED FLOW LINE
-  PROPOSED CUT LINE
-  PROPOSED FILL LINE
-  PROPOSED METAL BARRIER
-  MAJOR 10 FT CONTOUR
-  PROPOSED RIPRAP CLASS "B"
-  PROPOSED RIPRAP CLASS "A"
-  PROPOSED CONCRETE PAD
-  DRAINAGE STRUCTURE REFERENCE No.
-  METAL BARRIER REFERENCE No.
-  PROPOSED NMDOT BARBED WIRE FENCE 4'

ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	FIG.	FIGURE	OAE	OR APPROVED EQUAL
A.B.S.	ACRYLONITRILE-BUTADIENE-STYRENE	FND.	FOUND	O.C.	ON CENTER
A.C.	ASPHALTIC CONCRETE	FL	FLOWLINE	O.D.	OUTER DIAMETER
ACI	AMERICAN CONCRETE INSTITUTE	FM	FORCE MAIN	OHE	OVERHEAD ELECTRICAL
AC	ACRE	FNPT	FEMALE NATIONAL PIPE THREAD	PE	PLAIN END
AC-FT	ACRE FEET	FO	FIBER OPTIC	PRV	PRESSURE RELIEF VALVE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FT.	FEET	PSF	POUNDS PER SQUARE FOOT
ALUM	ALUMINUM	FY	YIELD STRESS	PSI	POUNDS PER SQUARE INCH
ARV	AIR RELEASE VALVE	GA.	GAUGE	PVC	POLY VINYL CHLORIDE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	GALV.	GALVANIZED	Q100	100 YEAR STORM FLOW
ARV	AIR RELIEF VALVE	GPM	GALLONS PER MINUTE	R	RADIUS OR RANGE
AWG	AMERICAN WIRE GAUGE	GSE	GUNDE/SLT ENVIRONMENTAL, INC.	R.C.P.	REINFORCED CONCRETE PIPE
AWWA	AMERICAN WATER WORKS ASSOCIATION	GV	GATE VALVE	ROW	RIGHT OF WAY
BNSF	BURLINGTON NORTHERN AND SANTA FE RAILROAD	HDPE	HIGH DENSITY POLYETHYLENE	RT	RIGHT
C OR CL	CENTERLINE	HORIZ.	HORIZONTAL	SAS	SANITARY SEWER
CFS	CUBIC FEET PER SECOND	HP	HORSE POWER	SCH.	SCHEDULE
CI	CAST IRON	HWY	HIGHWAY	SCS	SOIL CONSERVATION SERVICE
CLR.	CLEAR	I.D.	INNER DIAMETER	SIDR	STANDARD DIMENSION RATIO
CO	CLEAN OUT	IN.	INCH	SMH	SANITARY MANHOLE
COMM.	COMMUNICATION	INV	INVERT	SPECS.	SPECIFICATIONS
CONC.	CONCRETE	J-BOX	JUNCTION BOX	SS	STAINLESS STEEL
CONT.	CONTINUOUS	L	LENGTH	STA.	STATION
COUP	COUPLING	LEN	LENGTH	STD.	STANDARD
CP	CONTROL POINT	LF	LINEAR FEET	T	TOWNSHIP
DI	DUCTILE IRON	LT	LEFT	TC	TOP OF CONCRETE
DIA.	DIAMETER	MAX.	MAXIMUM	TDH	TOTAL DYNAMIC HEAD
E	EAST OR EASTING	MH	MANHOLE	TELE.	TELEPHONE
EA.	EACH	MIL	ONE THOUSANDTHS OF AN INCH	TYP.	TYPICAL
ED.	EDITION	MIN.	MINIMUM	UGE	UNDERGROUND ELECTRIC
E.G.	FOR EXAMPLE	M.J.	MECHANICAL JOINT	UGT	UNDERGROUND TELEPHONE
ELEC.	ELECTRICAL	MNPT	MALE NATIONAL PIPE THREAD	USGS	UNITED STATES GEOLOGICAL SURVEY
EP	EDGE OF PAVEMENT	N	NORTH OR NORTHING	V	VOLUME
ELEV.	ELEVATION	NG	NATURAL GAS	V100	VOLUME @ 100 YEAR RUN-OFF
EQ.	EQUAL	NGS	NATIONAL GEODETIC SURVEY	VERT.	VERTICAL
ESMT.	EASEMENT	N.O.A.A.	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	VG	VALLEY GUTTER
EX	EXISTING	NM	NEW MEXICO	W	WATER
EXIST.	EXISTING	NMDO	NEW MEXICO DEPARTMENT OF TRANSPORTATION	W/	WITH
FG	FINISHED GRADE	NMED	NEW MEXICO ENVIRONMENT DEPARTMENT	WL	WATERLINE
		NO.	NUMBER	WV	WATER VALVE
		NTS	NOT TO SCALE	WWTP	WASTE WATER TREATMENT PLANT
				Z	ZENITH



EOP STATION 100+00.00
END ROAD CONSTRUCTION

UNIT 1: GRANT COUNTY
UNIT 2: SILVER CITY DIVISION

VICINITY MAP

NOT TO SCALE

INTENT OF PROJECT

THIS ROADWAY PROJECT INVOLVES TWO AVAILABLE OPTIONS LISTED HEREIN AS ALTERNATE No.1 AND ALTERNATE No.2.

ALTERNATE No.1 ENTAILS FULL RECONSTRUCTION AND WIDENING TO 28 FEET WITH 3" HOT MIX ASPHALT OVER 6" BASECOURSE, EXTENDING OF MAINLINE CULVERTS, PERMANENT SIGNING AND STRIPING, AND DRAINAGE IMPROVEMENTS.


ALTERNATE No.2 ENTAILS RECONSTRUCTION AND WIDENING TO 28 FEET WITH 3" MINOR PAVING OVER 6.5" OF PROCESSING, PLACING AND COMPACTING WITH FULL RECONSTRUCTION AT SHOULDERS, PERMANENT SIGNING AND STRIPING, AND DRAINAGE IMPROVEMENTS



THE 2019 EDITION OF NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION AS WELL AS THE 2019 EDITION OF NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS FOR HIGHWAY AND BRIDGE CONSTRUCTION SHALL GOVERN CONSTRUCTION OF THIS PROJECT.

No.	DESCRIPTION	DATE	BY
4			
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1			

REVISIONS (OR CHANGE NOTICES)



GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
VICINITY MAP

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.




INDEX OF SHEETS		
SHEET NUMBER	SHEET DESCRIPTION	SHEET COUNT
GRANT COUNTY TRUCK BYPASS		
SERIES 1		
1-1	COVER	1
1-2	VICINITY MAP	1
1-3	INDEX OF SHEETS	1
1-4 TO -1-5	SUMMARY OF QUANTITIES	2
1-5	GENERAL NOTES	1
SHEET SUBTOTAL=		6
SERIES 2		
2-1	EXISTING TYPICAL SECTION	1
2-2 TO 2-4	PROPOSED TYPICAL SECTIONS	3
2-5	UTILITY ADJUSTMENTS	1
2-6	SURFACING SCHEDULE	1
2-7	SURFACING SCHEDULE	1
2-8	ESTIMATED STRUCTURE QUANTITIES	1
2-9 TO 2-10	MISCELLANEOUS QUANTITIES	2
2-11	METAL BARRIER	1
2-12	FENCE LAYOUT	1
2-13 TO 2-20	TESCP	8
2-21	TESCP QUANTITIES	1
SHEET SUBTOTAL=		21
SERIES 3		
3-0	SURVEY CONTROL	1
3-00 TO 3-000	ALIGNMENT CONTROL	2
3-1 TO 3-15	GRANT COUNTY BYPASS PLAN AND PROFILES	15
SHEET SUBTOTAL=		18
SERIES 6		
6-1	TEMPORARY TRAFFIC CONTROL NOTES AND SUGGESTED SEQUENCE OF CONSTRUCTION	1
6-2	ESTIMATED CONSTRUCTION MANAGEMENT QUANTITIES	1
6-3	PCMS LAYOUT MAP	1
6-4	ONE LANE CLOSURE	1
6-5	SHOULDER CLOSURE	1
6-6	CULVERT REPLACEMENT MAP	1
SHEET SUBTOTAL=		6
SERIES 7		
7-1	SIGN FACE DETAILS AND NOTES	1
7-2 TO 7-9	SIGNING PLANS	8
7-10	SIGNING AND STRIPING QUANTITIES	1
SHEET SUBTOTAL=		10
SERIES 10		
10-0	STRUCTURE SECTIONS GENERAL NOTES	1
10-1 TO 10-8	MAINLINE - STRUCTURE SECTIONS	8
SHEET SUBTOTAL=		9
SERIES 11		
11-1 TO 11-8	EXISTING UTILITY PLANS	8
SHEET SUBTOTAL=		8
SERIES 13		
13-0	ROADWAY CROSS SECTIONS COVER	1
13-1 TO 13-144	CROSS SECTIONS	144
SHEET SUBTOTAL=		145
SHEET TOTAL =		223



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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)



**GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
INDEX OF SHEETS**

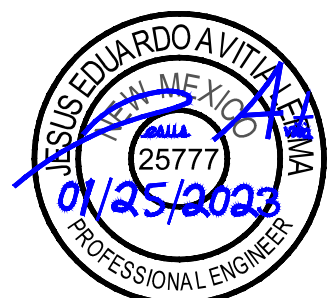
NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



**SUMMARY OF QUANTITIES
BID ALTERNATE No.2**

ITEM NO.	ITEM	UNIT	ROADWAY				STORM DRAIN				CONSTRUCTION SIGNING				PERMANENT SIGNING				CONSTRUCTION ENGINEERING				PROJECT TOTAL		
			UNIT 1		UNIT 2		UNIT 1		UNIT 2		UNIT 1		UNIT 2		UNIT 1		UNIT 2		UNIT 1		UNIT 2		EST.	FIN.	
			EST.	FIN.	EST.	FIN.	EST.	FIN.	EST.	FIN.	EST.	FIN.	EST.	FIN.	EST.	FIN.	EST.	FIN.	EST.	FIN.	EST.	FIN.	EST.	FIN.	
201000	CLEARING AND GRUBBING	L.S.	L.S.		L.S.																		L.S.	L.S.	L.S.
203000	UNCLASSIFIED EXCAVATION	C.Y.	7800		500																		7800	500	8300
203100	BORROW	CU.YD.	3100		200																		3100	200	3300
203200	SUBEXCAVATION	CU.YD.				400																	400		400
207000	SUBGRADE PREPARATION	S.Y.	21600		1900																		21600	1900	23500
302000	PROCESSING, PLACING AND COMPACTING EXISTING PAVEMENT	S.Y.	21700		2000																		21700	2000	23700
303000	BASE COURSE	TON	2780		230																		2780	230	3010
408100	PRIME COAT MATERIAL	S.Y.	70		10																		70	10	80
416103	MINOR PAVING TYPE I, HMA SP-III	TON	5120		470																		5120	470	5590
511000	STRUCTURAL CONCRETE, CLASS A	C.Y.				10																	10		10
511030	STRUCTURAL CONCRETE, CLASS AA	C.Y.				320																	320		320
515000	REINFORCED CONCRETE FOR MINOR STRUCTURES	C.Y.				70																	70		70
540060	REINFORCING BARS GRADE 60	LB				46300																	46300		46300
541200	STRUCTURAL STEEL FOR MISCELLANEOUS STRUCTURE	LB				400																	400		400
570030	30" CULVERT PIPE	L.F.				100																	100		100
570031	30" CULVERT PIPE END SECTION	EACH				5																	5		5
570042	42" CULVERT PIPE	L.F.				10																	10		10
570043	42" CULVERT PIPE END SECTION	EACH				2																	2		2
570048	48" CULVERT PIPE	L.F.				32																	32		32
570049	48" CULVERT PIPE END SECTION	EACH				4																	4		4
601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	L.S.		L.S.																		L.S.	L.S.	L.S.
602000	RIPRAP CLASS A	C.Y.				20																	20		20
602010	RIPRAP CLASS B	C.Y.				90																	90		90
603100	TEMPORARY SOIL STABILANT	ACRE	8		1																		8	1	9
603260	CULVERT PROTECTION	S.Y.	110																				110		110
603261	COMPOSTED MULCH SOCKS	L.F.	2640		610																		2640	610	3250
603281	SWPPP PLAN PREPARATION AND MAINTENANCE	L.S.																	L.S.		L.S.		L.S.	L.S.	L.S.
606001	SINGLE FACE W-BEAM GUARDRAIL	L.F.	575																				575		575
606052	END TREATMENT TL-2 END TERMINAL	EACH	8																				8		8
607010	BARBED WIRE FENCE (GAME FENCE) 4'	L.F.	210																				210		210
607015	BRACES/CORNER POST	EACH	12																				12		12
613000	CLEANING CULVERTS AND DRAINAGE STRUCTURES	L.S.				L.S.																	L.S.		L.S.
618000	TRAFFIC CONTROL MANAGEMENT	L.S.								L.S.		L.S.											L.S.	L.S.	L.S.
621000	MOBILIZATION	L.S.	L.S.		L.S.																		L.S.	L.S.	L.S.
632000	CLASS A SEEDING	ACRE	7		2.5																		7	3	10
632020	CLASS C SEEDING	ACRE	1.0		0.5																		1	0.5	2
663049	PRE-CONSTRUCTION UTILITY SURVEY	L.S.																	L.S.		L.S.		L.S.	L.S.	L.S.
663855	ADJUST VALVE BOX TO GRADE	EACH			1																		1		1
663865	ADJUST WATER METER TO GRADE	EACH			1																		1		1
667110	MAIL BOX INSTALLATION-SINGLE	EACH	5																				5		5
701000	PANEL SIGNS	S.F.											180		50								180	50	230
701100	STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS	L.F.											442		65								442	65	507
702610	PORTABLE CHANGEABLE MESSAGE SIGN	EACH								2		2											2	2	4
702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION	L.S.								L.S.		L.S.											L.S.	L.S.	L.S.
703002	OBJECT MARKER TYPE 2	EACH											12										12		12
703003	OBJECT MARKER TYPE 3	EACH											8										8		8
704000	RETROREFLECTORIZED PAINTED MARKINGS 4"	L.F.											72610		6520								72610	6520	79130
704005	RETROREFLECTORIZED PAINTED MARKINGS 24"	L.F.											30		30								30	30	60
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	L.S.																		L.S.		L.S.	L.S.	L.S.	L.S.
802000	POST CONSTRUCTION PLANS	L.S.																		L.S.		L.S.	L.S.	L.S.	L.S.

UNIT 1: GRANT COUNTY STA:0+00.00 - 91+85.51
UNIT 2: SILVER CITY LIMITS STA: 91+85.51 - 100+00.00



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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
SUMMARY OF QUANTITIES

NOTICE OF EXTENDED PAYMENT PROVISION
 THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "2019 EDITION OF NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION".
2. CONSTRUCTION CENTERLINES AND STATIONING SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO INITIATING ANY CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT MODIFICATIONS TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID # 801000 CONSTRUCTION STAKING BY THE CONTRACTOR.
3. ANY ACCESS MODIFICATION MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE WITH PROPERTY OWNER AND APPROVED BY GRANT COUNTY. THE CONTRACTOR SHALL NOT DISTURB ANY STRUCTURES OR FACILITIES OUTSIDE OF THE CONSTRUCTION LIMITS. THE REPLACEMENT OF ANY DAMAGED STRUCTURES OR FACILITIES SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL SUBMIT (3) THREE COPIES OF THE CONSTRUCTION SCHEDULE, DEMONSTRATING EACH ACTIVITY WITH THE PROPOSED START AND COMPLETION DATE, AND ALL ACTIVITIES COMBINED AS A NETWORK, NO LATER THAN 10 DAYS PRIOR TO THE PRECONSTRUCTION CONFERENCE. THIS SCHEDULE SHALL BE IN A DETAILED BAR CHART FORMAT. THE CONTRACTOR SHALL SUBMIT AN UPDATED SCHEDULE WITH EACH PAY ESTIMATE.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST AND OBTAIN ANY REQUIRED PERMITS FOR THE PROJECT. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
6. THE CONTRACTOR SHALL MAINTAIN A SET OF AS-BUILT PLANS, THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER PRIOR TO FINAL PAYMENT. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID # 802000 POST CONSTRUCTION PLANS.
7. CONTRACTOR SHALL PROVIDE SMOOTH RIDING TRANSITIONS AT ALL LIMITS OF NEW CONSTRUCTION AND CONNECTIONS.
8. THE MINIMUM "R" VALUE FOR THIS PROJECT IS 27, MATERIAL NOT MEETING THIS R-VALUE SHALL NOT BE ALLOWED TO REMAIN IN THE TOP 2' OF SUBGRADE.
9. SALVAGEABLE MATERIALS (SIGNAGE, FENCING, ETC.) FROM THIS PROJECT ARE TO BE HAULED AND STOCKPILED AT THE GRANT COUNTY ROADS DEPARTMENT YARD. HAUL OF THIS MATERIAL SHALL BE PERFORMED DURING NORMAL WORKING HOURS AS DIRECTED BY THE PROJECT MANAGER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR BID ITEM 601000 "REMOVAL OF STRUCTURES AND OBSTRUCTION".
10. ALL UNSALVAGEABLE MATERIALS SHALL BE HAULED TO AN ENVIRONMENTALLY SUITABLE DISPOSAL SITE, SECURED AND COORDINATED WITH THE APPROPRIATE REGULATORY AGENCIES AS REQUIRED BY THE TERMS AND CONDITIONS OF SECTION 107 "LEGAL RELATIONS, ENVIRONMENTAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC" OF THE CURRENT NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE.

UTILITY NOTES

TWO WORKING DAYS PRIOR TO EXCAVATION, CONTRACTOR MUST CONTACT 1-800-ONE CALL, FOR LOCATION OF EXISTING UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO AVOID DAMAGE TO ANY UTILITIES.

THE CONTRACTOR SHALL SUPPORT AND MAINTAIN ALL OPERATIONAL UTILITIES EXPOSED DURING SUBEXCAVATION, METAL BARRIER INSTALLATION AND OTHER CONSTRUCTION OPERATIONS. ALL CONSTRUCTION ACTIVITIES INVOLVING GAS, POWER, WATER METER, FIBER-OPTIC, AND/OR OTHER UTILITY LINES SHALL BE COORDINATED WITH THE OWNER OF THE UTILITY PRIOR TO ANY DISTURBANCE, NO UTILITY SERVICE SHALL BE DISRUPTED WITHOUT FIRST NOTIFYING ALL AFFECTED PARTIES 48 HOURS IN ADVANCE.

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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)



GRANT COUNTY TRUCK BYPASS
 ROADWAY & DRAINAGE IMPROVEMENTS
 GENERAL NOTES

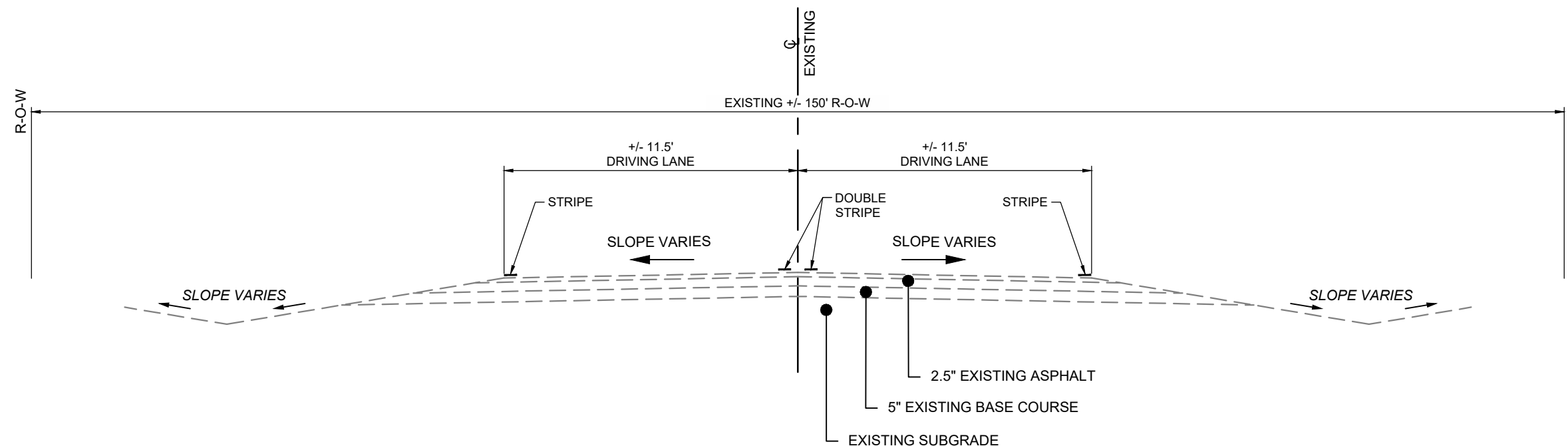
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PROJECT LENGTH					
STATION	TO	STATION	DESCRIPTION	DIST.	DIST.
				FT.	MILES
1+17.50		100+00.00	FULL RECONSTRUCTION & WIDENING	9883	1.872
PROJECT TOTAL =				9,883	1.872

CLEAR ZONE REQUIREMENTS	
SLOPE	40 MPH
	FT
6:1 OR FLATTER	7 TO 10
5:1 - 4:1	7 TO 10

DESIGN PARAMETERS		
		GRANT CO. BYPASS RD. BOP TO EOP
POSTED SPEED		35
DESIGN SPEED		40
AADT (2019) ACTUAL		579
AADT (2040) DESIGN		735
DHV (2019)		64
DHV (2040) DESIGN		81
% HEAVY COMMERCIAL (2019 - ACTUAL)		8.0%
% HEAVY COMMERCIAL (2040 - DESIGN)		8.0%
	CUM ESALS	SN
20 YR	69,809	1.91
1 YR	2,792	N/A



EXISTING TYPICAL SECTION - TRUCK BYPASS RD.
STA. 1+17.50 TO STA. 100+00.00



NO.	DESCRIPTION	DATE	BY
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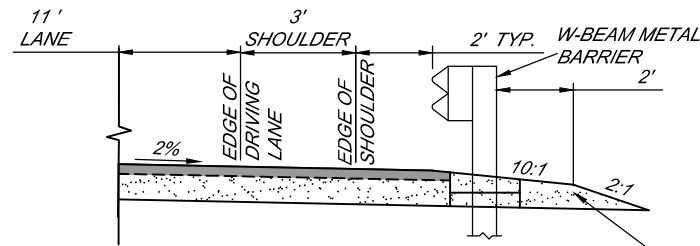
REVISIONS (OR CHANGE NOTICES)



**GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
EXISTING TYPICAL SECTIONS**



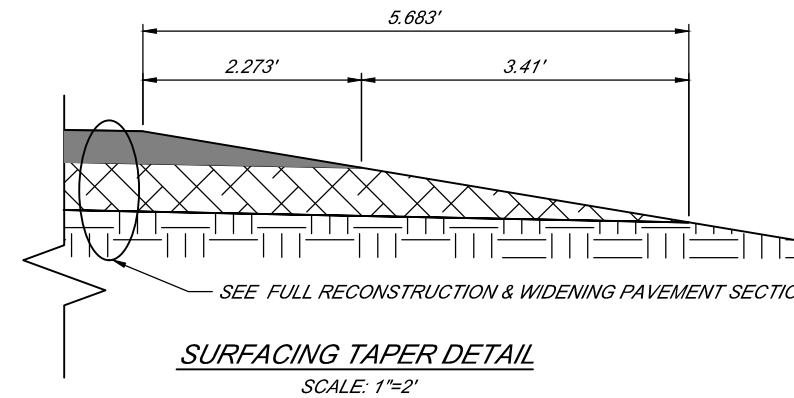
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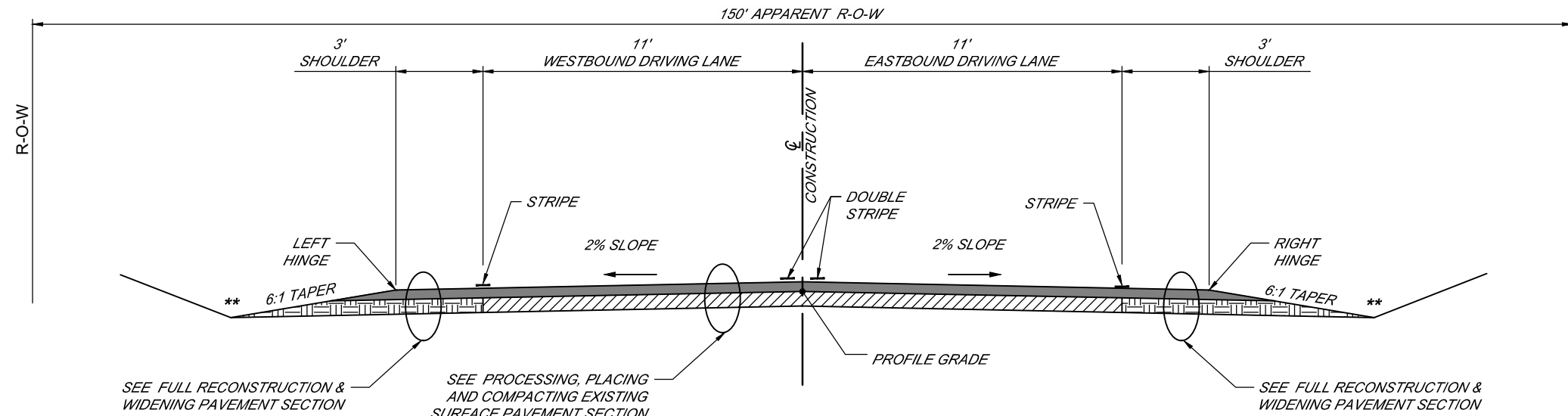
METAL BARRIER PLACEMENT DETAIL
SEE METAL BARRIER LAYOUT
SCALE: 1"=5'

- NOTES:
1. SEE METAL BARRIER LAYOUT SHEETS 2-17 & 2-18.
 2. METAL BARRIER FACE LOCATED 2' FROM EDGE OF SHOULDER.
 3. 10:1 FLATTER FOR 5' MINIMUM WIDTH AT TL-3 END TERMINALS. SEE NMDOT STANDARD DRAWING 606-GR31-7/20 FOR REQUIREMENTS.

POST LEAVE-OUT REQUIRED
SEE NMDOT STANDARD DRAWING
606-GR31-5/20



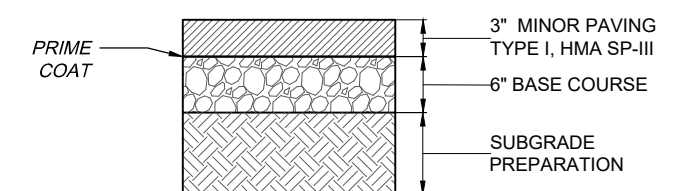
SURFACING TAPER DETAIL
SCALE: 1"=2'



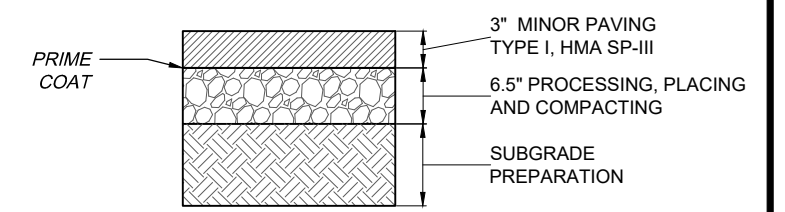
BID ALTERNATE No.2

PROPOSED TYPICAL SECTION "B" - PROCESSING, PLACING AND COMPACTING

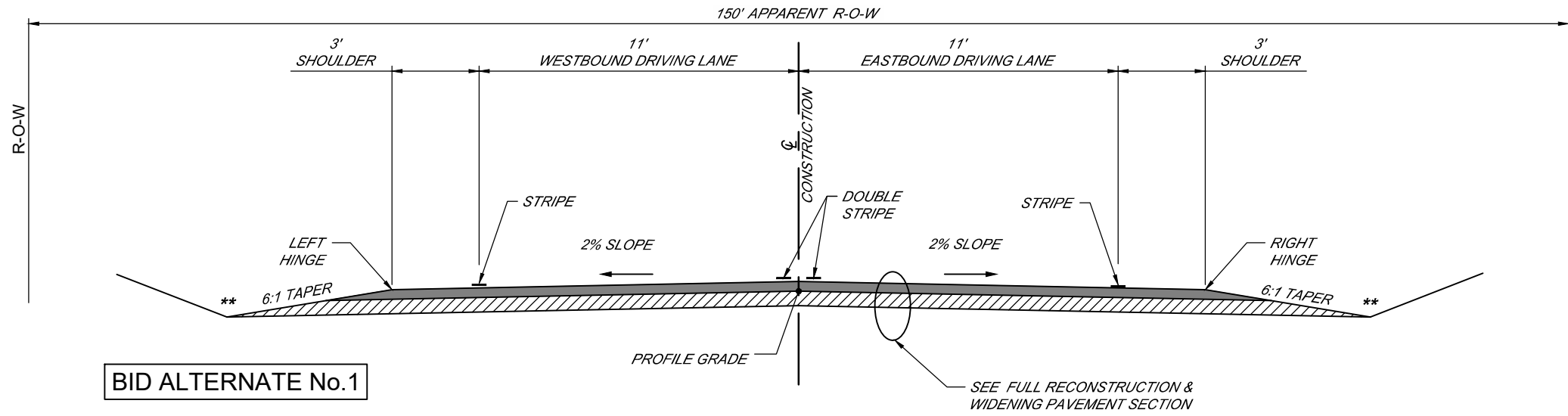
STA. 1+11.02 TO STA. 100+00.00



FULL RECONSTRUCTION & WIDENING PAVEMENT SECTION
NOT TO SCALE



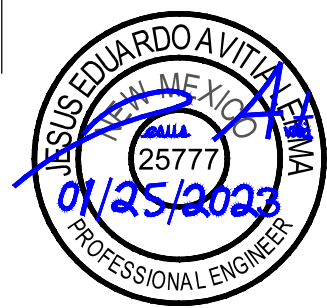
PROCESSING, PLACING AND COMPACTING EXISTING SURFACE PAVEMENT SECTION
NOT TO SCALE



BID ALTERNATE No.1

PROPOSED TYPICAL SECTION "A" - FULL RECONSTRUCTION

STA. 1+11.02 TO STA. 100+00.00

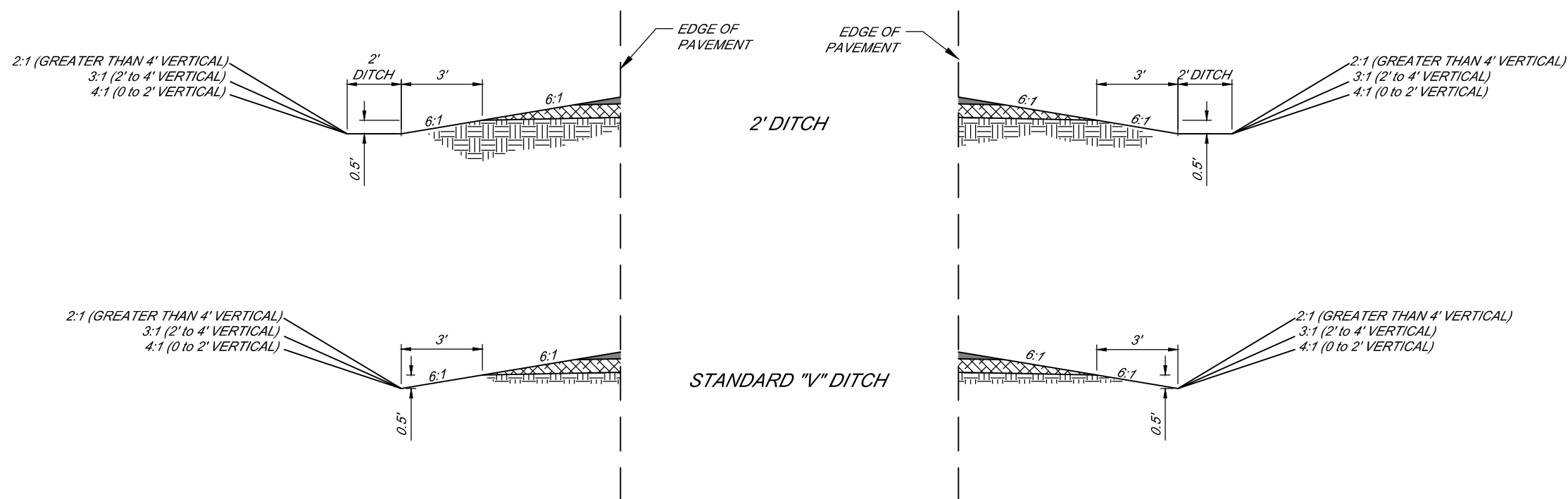


NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)

GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
PROPOSED TYPICAL SECTIONS

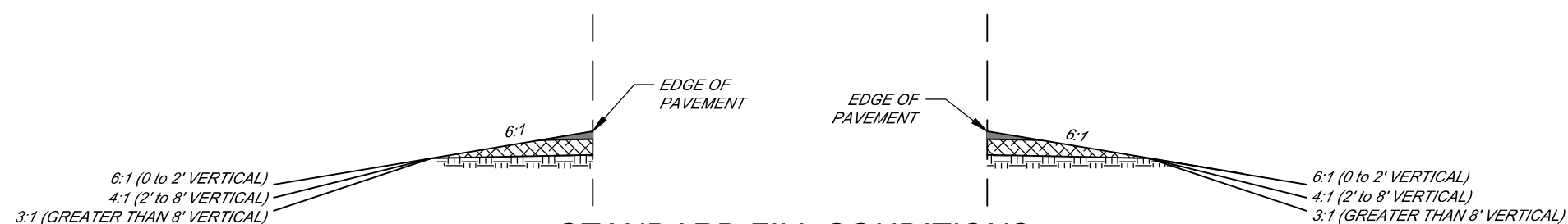
NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



VARIABLE DITCH CONDITIONS

SCALE: 1"=5'

SEE STATIONS ON TYPICAL SLOPE CONDITION TABLE ON SHEET 2-4



STANDARD FILL CONDITIONS

SCALE: 1"=5'

SEE STATIONS ON TYPICAL SLOPE CONDITION TABLE ON SHEET 2-4



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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
PROPOSED TYPICAL SECTIONS

NOTICE OF EXTENDED PAYMENT PROVISION
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TYPICAL SLOPE CONDITION TABLE

Left						Right					
CUT SITUATION	FILL SITUATION	SURFACING TAPER	START	END	DIST.	CUT SITUATION	FILL SITUATION	SURFACING TAPER	START	END	DIST.
6" STANDARD DITCH	STANDARD FILL	6:1 TAPER	01+17.50	02+11.12	93.62	6" STANDARD DITCH	STANDARD FILL	6:1 TAPER	01+17.50	02+11.12	93.62
6" STANDARD "V" DITCH	STRUCTURE-2:1 FILL	6:1 TAPER	02+11.12	03+29.19	118.07	6" STANDARD "V" DITCH	STRUCTURE-2:1 FILL	6:1 TAPER	02+11.12	03+29.19	118.07
6" STANDARD DITCH	STANDARD FILL	6:1 TAPER	03+29.19	15+58.31	1229.12	6" STANDARD DITCH	STANDARD FILL	6:1 TAPER	03+29.19	15+58.31	1229.12
6" STANDARD DITCH	STANDARD FILL	6:1 TAPER	15+58.31	16+76.79	118.48	0.568" DITCH - 1.00' BOTTOM	STANDARD FILL	6:1 TAPER	15+58.31	16+76.79	118.48
6" STANDARD "V" DITCH	STRUCTURE-2:1 FILL. SEE METAL BARRIER DETAIL	6:1 TAPER	16+76.79	17+32.13	55.34	6" STANDARD "V" DITCH	STRUCTURE-2:1 FILL. SEE METAL BARRIER DETAIL	6:1 TAPER	16+76.79	17+32.13	55.34
6" STANDARD DITCH	STANDARD FILL	6:1 TAPER	17+32.13	38+67.27	2135.14	6" STANDARD DITCH	STANDARD FILL	6:1 TAPER	17+32.13	38+67.27	2135.14
6" STANDARD "V" DITCH	STRUCTURE-2:1 FILL. SEE METAL BARRIER DETAIL	6:1 TAPER	38+67.27	41+23.89	256.62	6" STANDARD "V" DITCH	STRUCTURE-2:1 FILL. SEE METAL BARRIER DETAIL	6:1 TAPER	38+67.27	41+23.89	256.62
6" STANDARD DITCH	STANDARD FILL	6:1 TAPER	41+23.89	48+50.00	726.11	6" STANDARD DITCH	STANDARD FILL	6:1 TAPER	41+23.89	48+50.00	726.11
6" STANDARD "V" DITCH	STANDARD FILL	6:1 TAPER	48+50.00	64+00.00	1550.00	6" STANDARD "V" DITCH	STANDARD FILL	6:1 TAPER	48+50.00	64+00.00	1550.00
6" STANDARD DITCH	STANDARD FILL	6:1 TAPER	64+00.00	71+13.26	713.26	6" STANDARD DITCH	STANDARD FILL	6:1 TAPER	64+00.00	71+13.26	713.26
6" STANDARD DITCH	STRUCTURE-2:1 FILL	6:1 TAPER	71+13.26	73+16.11	202.85	6" STANDARD DITCH	STRUCTURE-2:1 FILL	6:1 TAPER	71+13.26	73+16.11	202.85
6" STANDARD DITCH	STANDARD FILL	6:1 TAPER	73+16.11	100+00.00	2683.89	6" STANDARD DITCH	STANDARD FILL	6:1 TAPER	73+16.11	100+00.00	2683.89



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REVISIONS (OR CHANGE NOTICES)

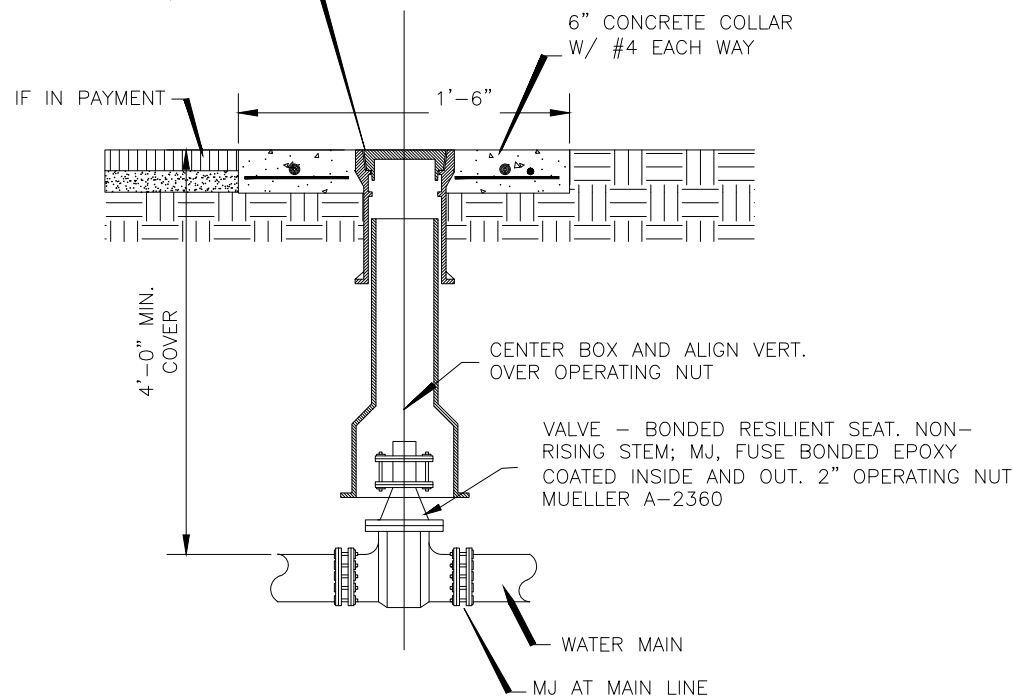


GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
PROPOSED TYPICAL SECTIONS

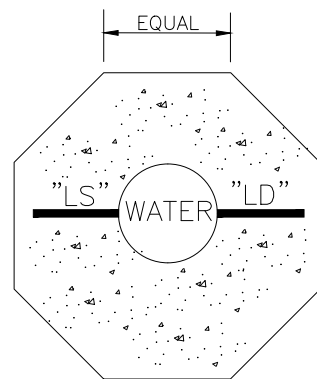
NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



SHORTY VALVE BOXES NO. 70
AS MANUFACTURED BY EAST
JORDAN IRON WORKS, OR EQUAL



VALVE AND BOX DETAIL
SCALE: NTS



"LS" = LINE SIZE
"LD" = LINE DIAMETER
TOP OF CONCRETE COLLAR SHALL BE STAMPED
WITH LINE SIZE AND LINE DIRECTION. MINIMUM
MINIMUM LETTER SIZE SHALL 3" IN HEIGHT


CONCRETE COLLAR DETAIL
SCALE: NTS

ADJUST VALVE BOX TO GRADE			663855	REMARKS
STATION	LOCATION	OFFSET	ADJUST VALVE BOX TO GRADE	
		FT	EACH	
UNIT 2				
99+48.97	RT.	31.2	1	ADJUST TO GRADE
UNIT 2 TOTAL USE			1	
PROJECT TOTAL			1	
PROJECT USE			1	

ADJUST WATER METER TO GRADE			663865	REMARKS
STATION	LOCATION	OFFSET	ADJUST WATER METER TO GRADE	
		FT	EACH	
UNIT 2				
99+43.30	RT.	60	1	ADJUST TO GRADE
UNIT 2 TOTAL USE			1	
PROJECT TOTAL			1	
PROJECT USE			1	

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REVISIONS (OR CHANGE NOTICES)



**GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
UTILITY ADJUSTMENTS**



NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



SURFACING SCHEDULE BID ALTERNATE No.1				ITEM No.	207000		303000				416103				#	408100			
					SUBGRADE PREPARATION		BASE COURSE				MINOR PAVING TYPE I, HMA SP-III				64-22 PG ASPHALT MATERIAL	PRIME COAT MATERIAL			
STATION TO STATION	TYPICAL SECTION	DESCRIPTION	LENGTH	WIDTH	AVG. WIDTH	AREA	AVG. WIDTH	DEPTH	AREA	WT.	AVG. WIDTH	DEPTH	AREA	WT.	WT.	AVG. WIDTH	AREA	WT.	
			FT.	FT.	FT.	SQ.YD.	FT.	IN.	SQ.YD.	TON	FT.	IN.	SQ.YD.	TON	TON	FT.	SQ.YD.	TON	
MAJOR ROADWAY																			
UNIT 1																			
1+11.02	39+17.00	A	EXISTING PAVEMENT	3805.98	22.00	22.00	9303.51	22.00	6.00	9303.51	2946.11	22.00	3.00	9303.51	1531.20	98.00	22.00	9303.51	17.44
			WIDENING LT & RT	3805.98	6.00	6.00	2537.32	6.00	6.00	2537.32	803.48	6.00	3.00	2537.32	417.60	26.73	6.00	2537.32	4.76
1+11.02	39+17.00	A	TAPER LT	3805.98	9.09	9.09	3137.82	5.68	6.00	422.89	133.91	2.27	3.00	642.79	105.79	6.77	2.27	959.95	1.80
			TAPER RT	3805.98	9.09	9.09	3137.82	5.68	6.00	422.89	133.91	2.27	3.00	642.79	105.79	6.77	2.27	959.95	1.80
39+17.00	41+17.00	A	DRAINAGE STRUCTURE FULL RECONSTRUCTION	200.00	28.00	46.18	1026.22	39.37	6.00	874.80	277.02	22.00	3.00	488.89	80.46	5.15	22.00	488.89	0.92
41+17.00	91+85.51	A	EXISTING PAVEMENT	5068.51	22.00	22.00	12389.69	22.00	6.00	12389.69	3923.40	22.00	3.00	12389.69	2039.14	130.50	22.00	12389.69	23.23
			WIDENING LT & RT	5068.51	6.00	6.00	3379.01	6.00	6.00	3379.01	1070.02	6.00	3.00	3379.01	556.13	35.59	6.00	3379.01	6.34
41+17.00	91+85.51	A	TAPER LT	5068.51	9.09	9.09	4178.70	5.68	6.00	563.17	178.34	2.27	3.00	856.02	140.89	9.02	2.27	1278.39	2.40
			TAPER RT	5068.51	9.09	9.09	4178.70	5.68	6.00	563.17	178.34	2.27	3.00	856.02	140.89	9.02	2.27	1278.39	2.40
UNIT 2																			
91+85.51	100+00.00	A	EXISTING PAVEMENT	814.49	22.00	22.00	1990.98	22.00	6.00	1990.98	630.48	22.00	3.00	1990.98	327.68	20.97	22.00	1990.98	3.73
			WIDENING LT & RT	814.49	6.00	6.00	542.99	6.00	6.00	542.99	171.95	6.00	3.00	542.99	89.37	5.72	6.00	542.99	1.02
		A	TAPER LT	814.49	9.09	9.09	671.50	5.68	6.00	90.50	28.66	2.27	3.00	137.56	22.64	1.45	2.27	205.43	0.39
			TAPER RT	814.49	9.09	9.09	671.50	5.68	6.00	90.50	28.66	2.27	3.00	137.56	22.64	1.45	2.27	205.43	0.39
UNIT 1				TOTAL	43268.79				9644.54				5117.89				61.08		
UNIT 1				USE	43300				9650				5120				70		
UNIT 2				TOTAL	3876.97				859.74				462.33				5.52		
UNIT 2				USE	3900				860				470				10		
PROJECT TOTAL				47145.77				10504.28				5580.22				66.60			
PROJECT USE				47200				10510				5590				80			


FOR INFORMATION OF THE CONTRACTOR ONLY

ESTIMATED SURFACING FACTORS						
ITEM	64-22 PERFORMANCE GRADED ASPHALT MATERIAL	70-28+ PERFORMANCE GRADED ASPHALT MATERIAL	UNIT WEIGHT	(BY WEIGHT OF TOTAL MIX)	PRIME SECT. 408	UNIT WEIGHT
	(BY WEIGHT OF TOTAL MIX)	(BY WEIGHT OF TOTAL MIX)	LBS./ CU. YD.		GAL./ SQ.YD.	GAL/ TON
HMA SP III	6.40%		3950 *			
PRIME COAT MATERIAL					0.45 ***	240.00
BASE COURSE (TYPE I)			3800 *			

SURFACING NOTES:
 * FOR ESTIMATING PURPOSES ONLY, ACTUAL WEIGHTS OR PERCENT SHALL BE DETERMINED BY APPROVED MIX DESIGN.
 ** FOR ESTIMATING PURPOSES ONLY, ACTUAL PERCENT SHALL BE DETERMINED BY THE DISTRICT LAB.
 *** FOR ESTIMATING PURPOSES ONLY, APPLICATION RATE SHALL BE DETERMINED BY THE PROJECT MANAGER.



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**GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
SURFACING SCHEDULE**

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



SURFACING SCHEDULE BID ALTERNATE No.2				ITEM No.	207000		303000				302000			416103				#	408100									
					SUBGRADE PREPARATION		BASE COURSE				PROCESSING, PLACING AND COMPACTING EXISTING PAVEMENT			MINOR PAVING TYPE I, HMA SP-III				64-22 PG ASPHALT MATERIAL	PRIME COAT MATERIAL									
STATION TO STATION	TYPICAL SECTION	DESCRIPTION		LENGTH	WIDTH	AVG. WIDTH	AREA	AVG. WIDTH	DEPTH	AREA	WT.	AVG. WIDTH	DEPTH	AREA	AVG. WIDTH	DEPTH	AREA	WT.	WT.	AVG. WIDTH	AREA	WT.						
				FT.	FT.	FT.	SQ.YD.	FT.	IN.	SQ.YD.	TON	FT.	IN.	SQ.YD.	FT.	IN.	SQ.YD.	TON	TON	FT.	SQ.YD.	TON						
MAJOR ROADWAY																												
UNIT 1																												
1+11.02	39+17.00	B	EXISTING PAVEMENT	3805.98	22.00							22.00	6.00	9303.51	22.00	3.00	9303.51	1531.20	98.00	22.00	9303.51	17.44						
			WIDENING LT & RT	3805.98	6.00	6.00	2537.32	6.00	6.00	2537.32	803.48					6.00	3.00	2537.32	417.60	26.73	6.00	2537.32	4.76					
1+11.02	39+17.00		TAPER LT	3805.98	9.09	9.09	3137.82	5.68	6.00	422.89	133.91					2.27	3.00	642.79	105.79	6.77	2.27	959.95	1.80					
1+11.02	39+17.00		TAPER RT	3805.98	9.09	9.09	3137.82	5.68	6.00	422.89	133.91					2.27	3.00	642.79	105.79	6.77	2.27	959.95	1.80					
39+17.00	41+17.00	B	DRAINAGE STRUCTURE FULL RECONSTRUCTION	200.00	28.00	46.18	1026.22	39.37	6.00	874.80	277.02							488.89	80.46	5.15	22.00	488.89	0.92					
41+17.00	91+85.51	B	EXISTING PAVEMENT	5068.51	22.00							22.00	6.00	12389.69	22.00	3.00	12389.69	2039.14	130.50	22.00	12389.69	23.23						
			WIDENING LT & RT	5068.51	6.00	6.00	3379.01	6.00	6.00	3379.01	1070.02					6.00	3.00	3379.01	556.13	35.59	6.00	3379.01	6.34					
41+17.00	91+85.51		TAPER LT	5068.51	9.09	9.09	4178.70	5.68	6.00	563.17	178.34					2.27	3.00	856.02	140.89	9.02	2.27	1278.39	2.40					
41+17.00	91+85.51		TAPER RT	5068.51	9.09	9.09	4178.70	5.68	6.00	563.17	178.34					2.27	3.00	856.02	140.89	9.02	2.27	1278.39	2.40					
UNIT 2																												
91+85.51	100+00.00	B	EXISTING PAVEMENT	814.49	22.00							22.00	6.00	1990.98	22.00	3.00	1990.98	327.68	20.97	22.00	1990.98	3.73						
			WIDENING LT & RT	814.49	6.00	6.00	542.99	6.00	6.00	542.99	171.95					6.00	3.00	542.99	89.37	5.72	6.00	542.99	1.02					
			TAPER LT	814.49	9.09	9.09	671.50	5.68	6.00	90.50	28.66					2.27	3.00	137.56	22.64	1.45	2.27	205.43	0.39					
			TAPER RT	814.49	9.09	9.09	671.50	5.68	6.00	90.50	28.66					2.27	3.00	137.56	22.64	1.45	2.27	205.43	0.39					
UNIT 1				TOTAL					21575.60					2775.02					21693.20					5117.89				61.08
UNIT 1				USE					21600					2780					21700					5120				70
UNIT 2				TOTAL					1886.00					229.26					1990.98					462.33				5.52
UNIT 2				USE					1900					230					2000					470				10
PROJECT TOTAL								23461.59					3004.29					23684.17					5580.22				66.60	
PROJECT USE								23500					3010					23700					5590				80	

FOR INFORMATION OF THE CONTRACTOR ONLY



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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)



GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
SURFACING SCHEDULE

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



ESTIMATED STRUCTURE QUANTITIES

DS-#	STATION	STRUCTURE	SKEW	203200	511000	511030	515000	540060	541200	570030	570031	570042	570043	570048	570049	602000	602010	613000
				SUBEXCAVATION	STRUCTURAL CONCRETE, CLASS A	STRUCTURAL CONCRETE, CLASS AA	REINFORCED CONCRETE FOR MINOR STRUCTURES	REINFORCING BARS GRADE 60	STRUCTURAL STEEL FOR MISCELLANEOUS STRUCTURES	30" CULVERT PIPE	30" CULVERT PIPE END SECTION	42" CULVERT PIPE	42" CULVERT PIPE END SECTION	48" CULVERT PIPE	48" CULVERT PIPE END SECTION	RIPRAP CLASS A	RIPRAP CLASS B	CLEANING CULVERTS AND DRAINAGE STRUCTURES
DS - 1	02+74.52	1 - 30" X 67' R.C.P. SKEW = 30° LT. FWD. REMOVE 5' OF 30" C.M.P. LT. & RT. EXTEND LT. 34' & RT. 22' W/ 1- 30" C.P. BUILD METAL END SECTIONS & CAST IN PLACE CONNECTOR LT. & RT. BUILD 14.5' X 11' (APROX.) RIPRAP PAD LT.	30° LT.				5.5			56	2						10.2	L.S.
DS - 3	29+48.13	1 - 42" X 95' R.C.P. SKEW = 23° RT. FWD. REMOVE 5' OF 42" R.C.P. LT. EXTEND 10' LT. W/ 1- 42" C.P. BUILD CONCRETE HEADER WALLS LT. & RT. BULD 21' X 2.5' (APROX.) CLASS A & 26' X 18' (APROX.) CLASS B RIPRAP PAD RT. BUILD CAST IN PLACE CONNECTION LT.	23° RT.				24.5					10	2			16.4	28.0	L.S.
DS - 4	40+16.97	1 - 146" X 94' STRUCTURAL STEEL PLATE PIPE SKEW = NORMAL REMOVE EXISTING 1 - 146" X 94' STRUCTURAL STEEL PLATE PIPE BUILD 1 - 10' X 9' X 79' C.B.C. SKEW = NORMAL BUILD HEADWALL AND WINGWALL LT. & RT. OVER-EXCAVATE AND REPLACE 3 FEET UNDER PROPOSED C.B.C.	N	396.6		316.2		46221.9										
DS - 5	71+56.12	1 - 48" X 85' R.C.P. SKEW = 28° RT. FWD. REMOVE 5' OF 48" R.C.P. LT. EXTEND LT. 8' & 8' RT. W/ 1 - 48" C.P. BUILD METAL END SECTIONS & CAST IN PLACE CONNECTOR LT. BUILD 16.5' X 14.5' (APROX.) RIPRAP PAD RT.	28° RT.				9.9							16	2		14.8	L.S.
DS - 6	72+73.98	1 - 48" X 60' R.C.P. SKEW = 8° RT. FWD. REMOVE 5' OF 48" R.C.P. LT. & RT. EXTEND 8' LT. & 8' RT. W/ 1 - 48" C.P. BUILD METAL END SECTIONS & CAST IN PLACE CONNECTOR LT. & RT. BUILD 16.5' X 14.5' (APROX.) RIPRAP PAD RT.	8° RT.				9.9							16	2		14.8	L.S.
DS - 7	74+87.77	1 - 30" X 53' R.C.P. SKEW = NORMAL REMOVE 5' OF 30" R.C.P. LT. & RT. EXTEND LT. 12' & RT. 10' W/ 1 - 30" C.P. BUILD METAL END SECTIONS & CAST IN PLACE CONNECTOR LT. & RT. BUILD 14.5' X 11' (APROX.) RIPRAP PAD RT.	N				5.5			22	2						10.2	L.S.
DS - 8	90+86.54	1 - 30" X 61' R.C.P. SKEW = NORMAL REMOVE 5' OF 30" R.C.P. LT. & RT. EXTEND 8' LT. & 14' RT. W/ 1 - 30" C.P. BUILD CONCRETE SLOPE BLANKET W/ SAFETY GRATE RT. BUILD METAL END SECTION LT. BUILD 14.5' X 11' RIPRAP PAD LT. BUILD CAST IN PLACE CONNECTOR LT. & RT.	N		2.2		5.5		383	22	1						10.2	L.S.
SUBTOTAL				396.6	2.2	316.2	60.9	46221.9	383.0	100.0	5.0	10.0	2.0	32.0	4.0	16.4	88.2	0.0
TOTAL				397	2	316	61	46222	383	100	5	10	2	32	4	16	88	L.S.
PROJECT USE				400	10	320	70	46300	400	100	5	10	2	32	4	20	90	L.S.

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REVISIONS (OR CHANGE NOTICES)



GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
ESTIMATED STRUCTURE QUANTITIES



NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



BARRIER SCHEDULE					606001	606052	REMARKS
(STATIONS INCLUDE END TREATMENTS AND TRANSITIONS)					SINGLE FACE W-BEAM GUARDRAIL	END TREATMENT TL-2 END TERMINAL	
LABEL REFERENCE	BEGINNING		ENDING		LOC.	LIN.FT.	
	STATION	OFF. (FT)	STATION	OFF. (FT)			
MB- 01	16+55.44	18	17+80.44	18	LT	50.0	2
MB- 02	16+30.44	18	18+05.44	18	RT	100.0	2
MB- 03	38+87.50	18	41+63.00	18	LT	200.0	2
MB- 04	38+65.00	18	41+65.00	18	RT	225.0	2
PROJECT TOTAL						575.0	8
PROJECT USE						575.0	8

LUMP SUM ITEMS			
ITEM NO.	DESCRIPTION	UNIT	CATEGORY
201000	CLEARING AND GRUBBING	L.S.	ROADWAY
601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	ROADWAY
603281	SWPPP PLAN PREPARATION AND MAINTENANCE	L.S.	CONSTR. ENG.
613000	CLEANING CULVERTS AND DRAINAGE STRUCTURES	L.S.	STORM DRAIN
618000	TRAFFIC CONTROL MANAGEMENT	L.S.	CONSTR. SIGN.
621000	MOBILIZATION	L.S.	ROADWAY
663049	PRE-CONSTRUCTION UTILITY SURVEY	L.S.	CONSTR. ENG.
702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION	L.S.	CONSTR. SIGN.
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	L.S.	CONSTR. ENG.
802000	POST CONSTRUCTION PLANS	L.S.	CONSTR. ENG.

NOTE:

1. THE ASPHALT THICKNESS AT METAL BARRIER LOCATIONS IS LESS THAN SEVEN INCHES. STANDARD DRAWING 606-GR31-5A/20 SHALL BE USED TO CONSTRUCT LEAVEOUTS.
2. STATIONS, OFFSETS & DIMENSIONS ARE TO THE BARRIER FRONT FACE AND CWB FRONT FACE.
3. CONTRACTOR SHALL SHIFT THE GUARDRAIL POST UP AND DOWN STATION TO SPLIT SPACING EQUALLY OVER DS-2 STRUCTURE CENTERLINE TO AVOID ANY DAMAGE TO THE STRUCTURE.

MAILBOX REMOVAL AND INSTALLATION			667110	REMARKS
STATION	LOCATION	OFFSET	MAIL BOX INSTALLATION-SINGLE	
		FT	EACH	
UNIT 1				
50+25.56	RT.	17.8	1	REMOVE AND REPLACE
63+95.69	RT.	33.3	3	REMOVE AND REPLACE
79+77.47	RT.	21.3	1	REMOVE AND REPLACE
UNIT 1			5	
PROJECT TOTAL			5	
PROJECT USE			5	

NOTE:

THE REMOVAL OF MAILBOXES IS CONSIDERED INCLUDED IN ITEM No. 601000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

EARTHWORK SUMMARY		203000	EMBANKMENT	NET	SHRINK (20 %)	203100	REMARKS
		UNCLASSIFIED EXCAVATION				BORROW	
STATION TO STATION		CU.YD.	CU.YD.	CU.YD.	CU.YD.	CU.YD.	
UNIT I							
UNIT 1	1+17.50	91+85.51	7380.00	9574.00	2194.00		TRUCK BYPASS CORRIDOR
UNIT 1	79+89.83	81+70.67	53.00	323.00	270.00	2956.80	BOSTON HILL PARKING AREA
UNIT II							
UNIT 2	91+85.51	100+00.00	276.00	277.00	1.00	1.20	TRUCK BYPASS CORRIDOR
UNIT 1		TOTAL	7433.00	9897.00	2464.00	2956.80	
USE			7800			3100	
UNIT 2		TOTAL	276.00	277.00	1.00	1.20	
USE			500			200	
PROJECT TOTAL			7709	10174	2465	2958	
PROJECT USE			8300			3300	


NOTE:

1. CONTRACTOR TO USE EXCESS MATERIAL THROUGHOUT EXTENTS OF WORK ZONE TO FLATTEN SLOPES AS DIRECTED BY PROJECT MANAGER. THIS WORK SHALL BE KEPT WITHIN THE RIGHT OF WAY LIMITS.
2. THIS WORK WILL BE PAID FOR UNDER ITEM 203000 UNCLASSIFIED EXCAVATION
3. NO PAYMENT WILL BE MADE FOR DOUBLE HANDLING FOR EXCESS MATERIAL USED AS EMBANKMENT
4. BORROW / EMBANKMENT MATERIAL FOR SUB EXCAVATION IF NEEDED SHALL BE INCLUDED IN THE UNIT PRICE FOR SUBEXCAVATION
5. EMBANKMENT AND BORROW SHALL BE MEASURED AND PAID BY THE FINAL COMPACTED IN PLACE VOLUME THEREFORE NO SHRINKAGE QUANTITY WILL BE MEASURED OR PAID
6. REFER TO TRAFFIC CONTROL FOR PROJECT PHASING
7. CONTRACTOR SHALL CROSS-SECTION AFTER REMOVAL OF SURFACING. CROSS-SECTIONING OF ROADWAY SHALL BE INCIDENTAL TO REMOVAL OF SURFACING.



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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)



GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
MISCELLANEOUS QUANTITIES

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



REMOVAL OF STRUCTURES AND OBSTRUCTION						601000				
						REMOVAL OF STRUCTURES AND OBSTRUCTIONS				
STATION	TO	STATION	LEFT	CENTER	RIGHT	*EACH	*LF	*SF	STRUCTURE	DESCRIPTION
B.O.P		E.O.P							EXISTING TURNOUT STRUCTURES	REMOVAL OF ALL DEBRIS AT STRUCTURES
B.O.P	-	91+85.51	X		X	62			EXISTING SIGNS	REMOVE EXISTING SIGNS (UNIT 1)
91+85.51	-	E.O.P	X		X	11			EXISTING SIGNS	REMOVE EXISTING SIGNS (UNIT 2)
16+65.00	-	18+00.00	X				135		METAL BARRIER	REMOVE EXISTING METAL BARRIER INCLUDING CURVED AND END SECTION
16+40.00	-	17+90.00			X		150		METAL BARRIER	REMOVE EXISTING METAL BARRIER AND END SECTION
40+16.97			X	X	X		146		STRUCTURAL STEEL PIPE	REMOVE EXISTING 146" X 94" STRUCTURAL PLATE PIPE
40+38.86	-	40+71.85	X	X	X		40		BARBED WIRE FENCE	REMOVE EXISTING BARBED WIRE FENCE AND POSTS
UNIT 1 SUMMARY - QUANTITIES FOR LUMP SUM										
EXISTING SIGNS						62	EACH			
EXISTING METAL BARRIER						285	LIN.FT.			
EXISTING BARBED WIRE FENCE						40	LIN.FT.			
STRUCTURAL PLATE PIPE						146	LIN.FT.			
UNIT 2 SUMMARY - QUANTITIES FOR LUMP SUM										
EXISTING SIGNS						11	EACH			

* FOR CONTRACTOR INFORMATION ONLY
CONTRACTOR SHALL DELIVER ALL SALVAGEABLE MATERIAL TO THE TULAROSA PATROL YARD OR PER PROJECT MANAGER'S REQUEST.

FENCE SCHEDULE BID ALT. No.1 & BID ALT No.2				607010	607015	REMARKS	
				BARBED WIRE FENCE (GAME FENCE) 4'	BRACES/CORNER POST		
RUN	STATION TO STATION	LOC.		LIN.FT.	EACH		
UNIT 1							
FEN	A	39+47.78	40+00.98	LT	56	3	FENCING AT DS-4 STRUCTURE
FEN	B	40+33.10	40+68.56	LT	42	3	FENCING AT DS-4 STRUCTURE
FEN	C	39+72.52	40+00.52	RT	36	3	FENCING AT DS-4 STRUCTURE
FEN	D	40+32.64	41+00.12	RT	74	3	FENCING AT DS-4 STRUCTURE
UNIT 2							
UNIT 1				TOTAL	208	12	
UNIT 1				USE	208	12	
UNIT 2				TOTAL	0	0	
UNIT 2				USE	0	0	
PROJECT TOTAL				208	12		
PROJECT USE				210	12		

SOIL STABILANT SCHEDULE			603100
			TEMPORARY SOIL STABILANT
STATION TO STATION	LOC.		ACRE
UNIT 1			
1+17.50	91+85.51	LT. / RT.	8.94
UNIT 2			
91+85.51	100+00.00	LT. / RT.	0.70
UNIT 1			TOTAL
UNIT 1			USE
UNIT 2			TOTAL
UNIT 2			USE
PROJECT TOTAL			9.00
(DOUBLE APPLICATION) PROJECT USE			18

SEEDING SCHEDULE		632000	632020
		CLASS A SEEDING	CLASS C SEEDING
STATION TO STATION	LOC.	ACRE	ACRE
UNIT 1			
1+17.50	91+85.51	LT. / RT.	6.81
UNIT 2			
91+85.51	100+00.00	LT. / RT.	0.58
UNIT 1		TOTAL	6.81
UNIT 1		USE	7
UNIT 2		TOTAL	0.58
UNIT 2		USE	1
PROJECT TOTAL		8	3
TOTAL USE		8	3

REMOVAL OF SURFACING SCHEDULE BID ALTERNATE No.1					601110	REMARKS	
					REMOVAL OF SURFACING		
STATION TO STATION	LANE	LOC.	LENGTH FT.	AVG. WIDTH FT.	AREA SQ.YD.		
UNIT 1							
1+17.50	91+85.51	EB/WB	LT. & RT.	9068.01	22	22166.2	FULL RECONSTRUCTION
UNIT 2							
91+85.51	100+00.00	EB/WB	LT. & RT.	814.49	22	1991.0	FULL RECONSTRUCTION
UNIT 1					TOTAL	22166.2	
UNIT 1					USE	22200	
UNIT 2					TOTAL	1991.0	
UNIT 2					USE	2000	
PROJECT TOTAL					24157.2		
PROJECT USE					24200		

NOTE:
1. SEE EXISTING TYPICAL SECTION FOR ASPHALT DEPTHS. TURNOUT ASPHALT DEPTH IS UNKNOWN
2. REMOVAL OF SURFACING INCLUDES ASPHALT SURFACE ONLY



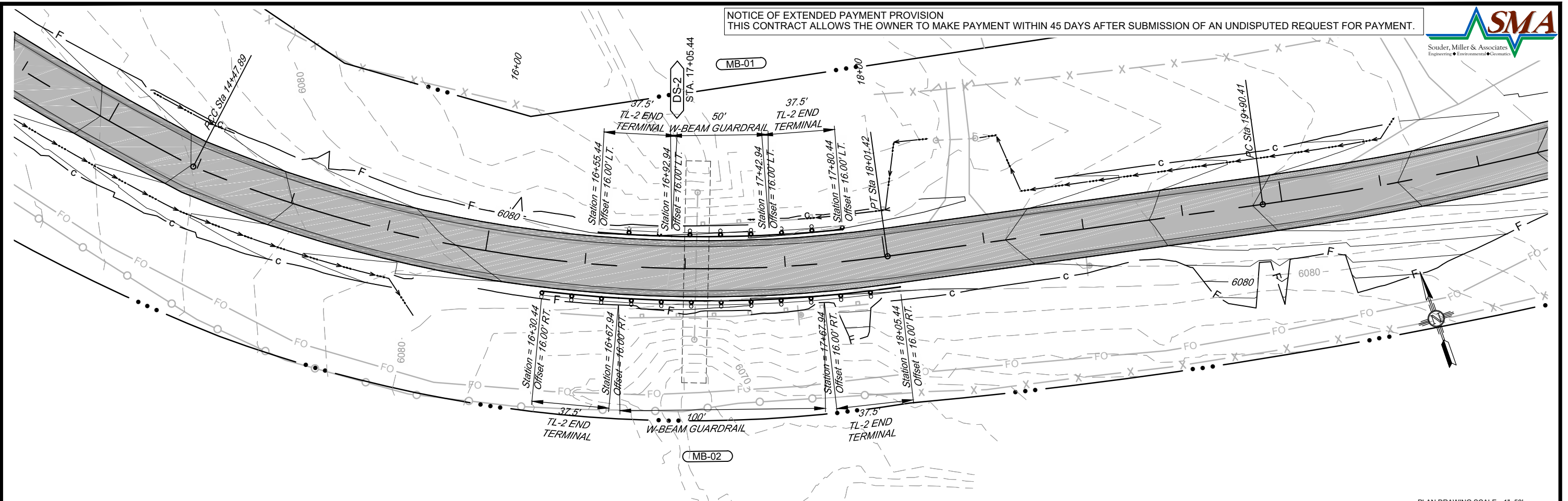
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REVISIONS (OR CHANGE NOTICES)

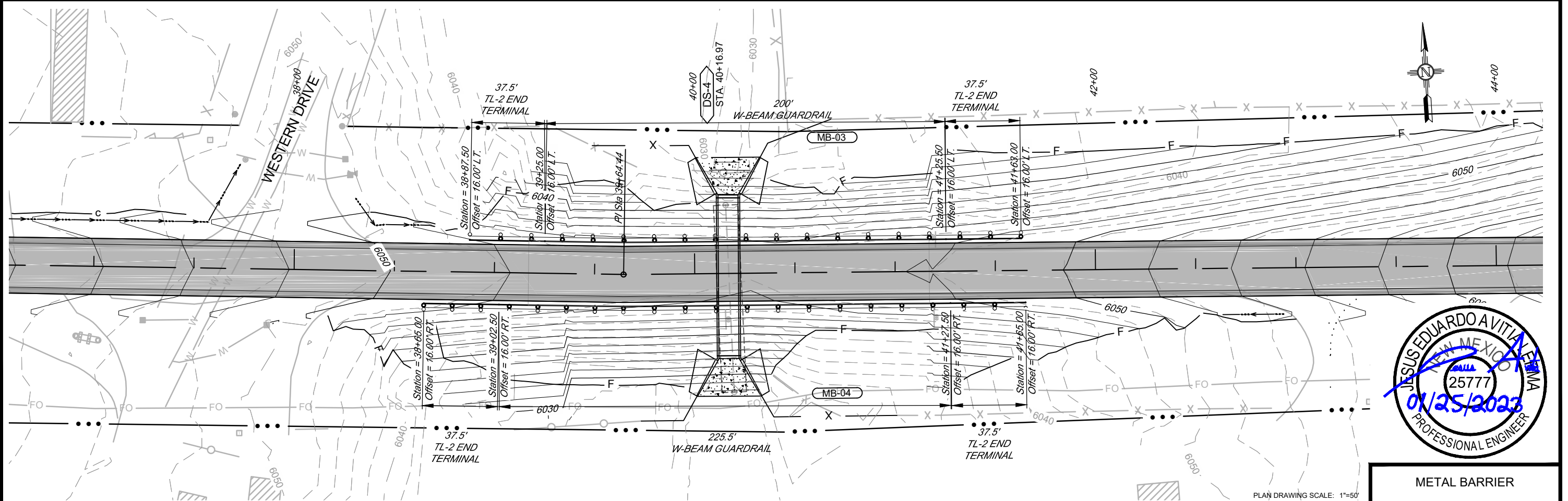


GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
MISCELLANEOUS QUANTITIES

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



PLAN DRAWING SCALE: 1"=50'

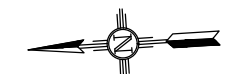


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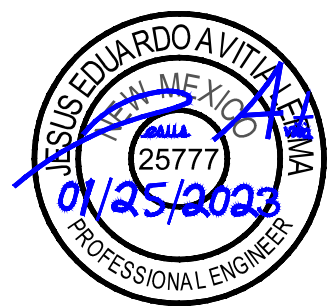
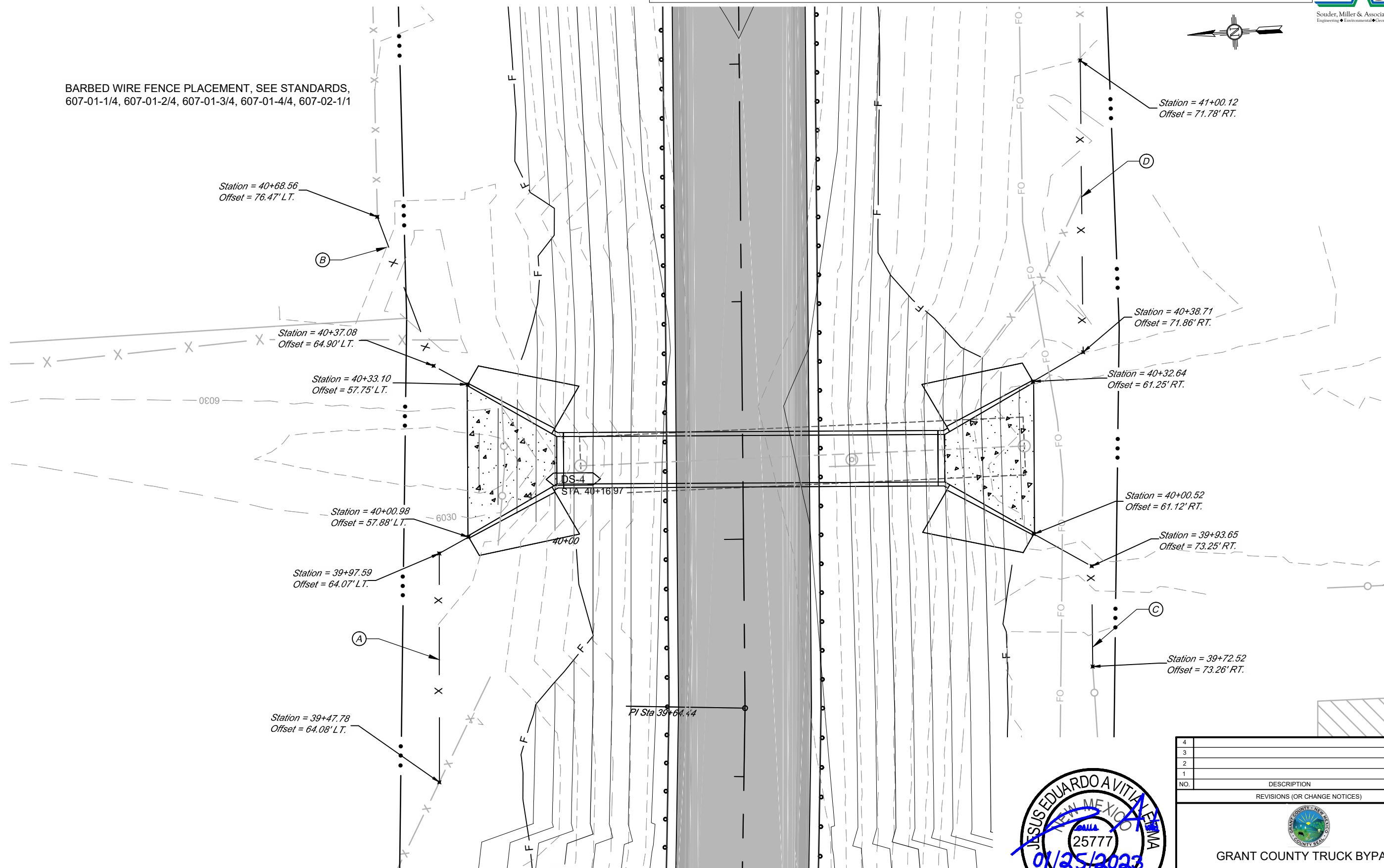


METAL BARRIER

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BARBED WIRE FENCE PLACEMENT, SEE STANDARDS,
607-01-1/4, 607-01-2/4, 607-01-3/4, 607-01-4/4, 607-02-1/1



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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

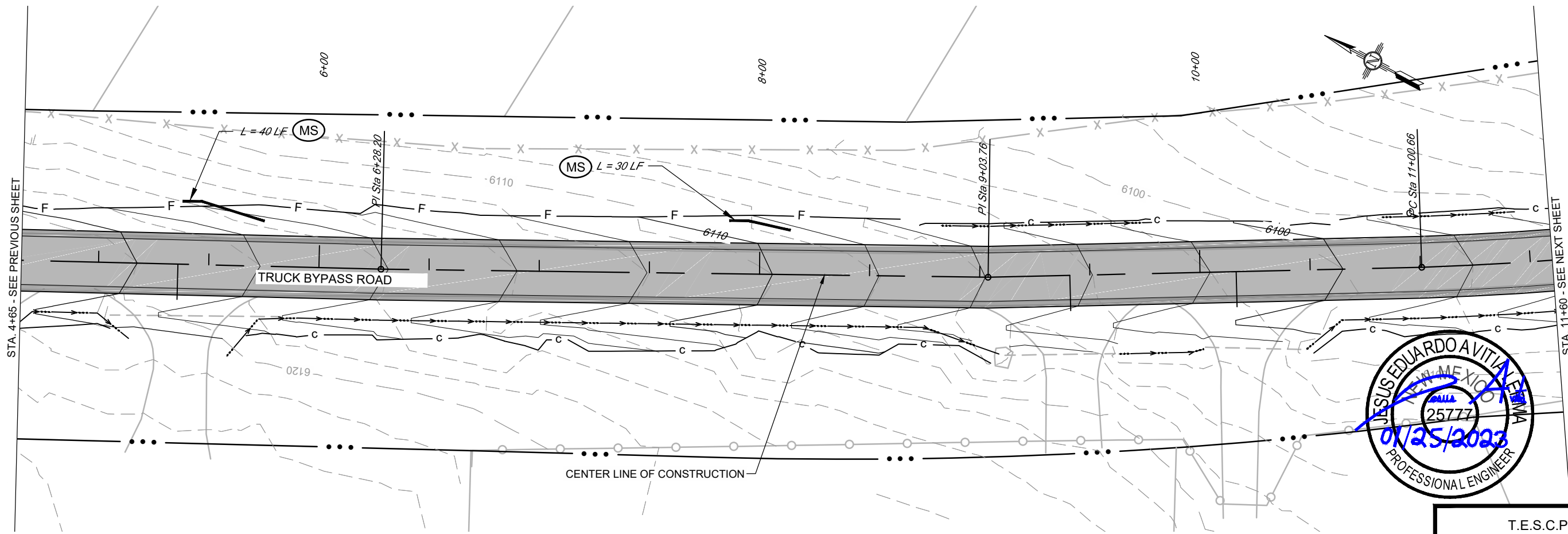
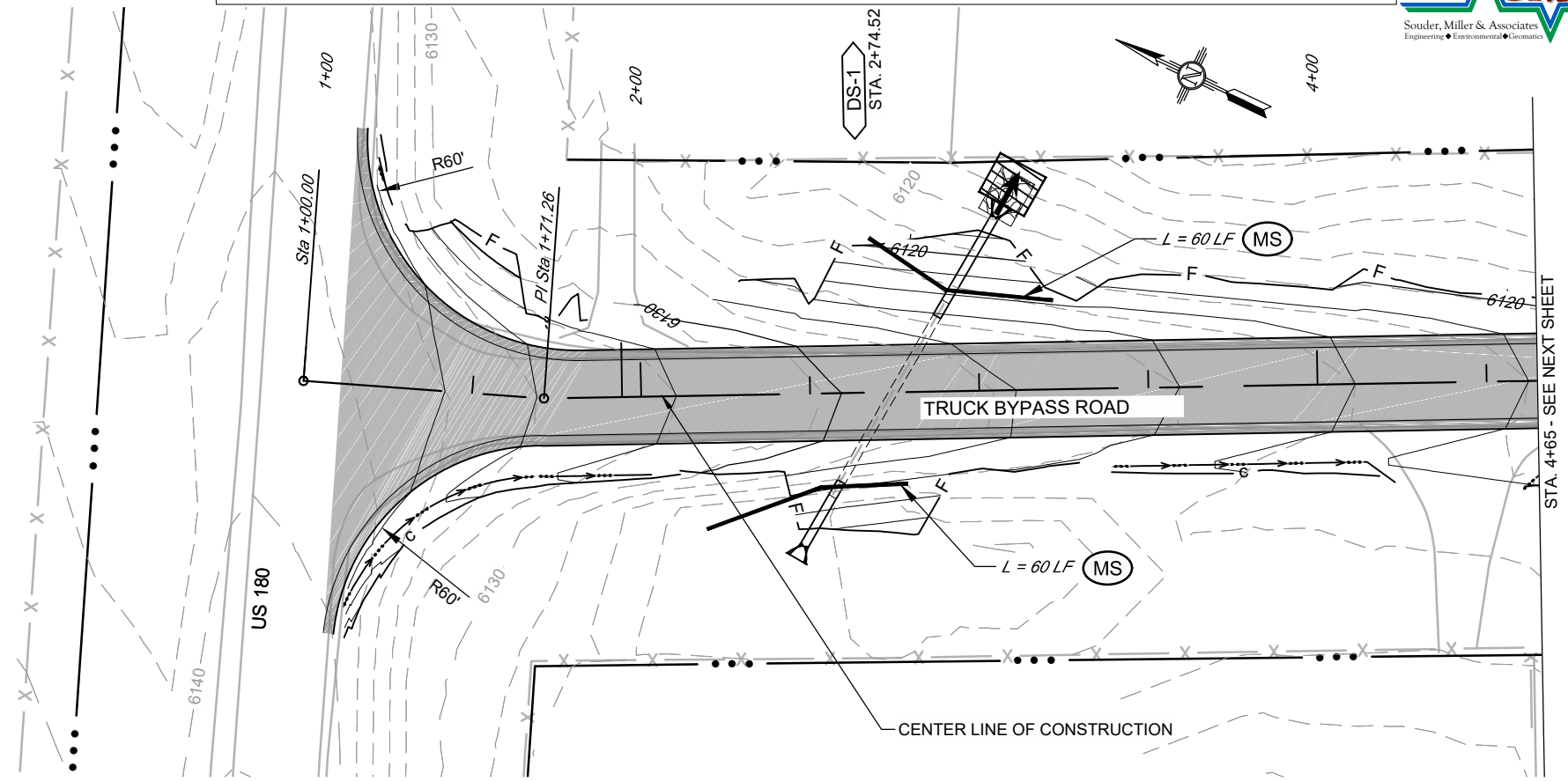


GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
FENCE LAYOUT

NOTICE OF EXTENDED PAYMENT PROVISION
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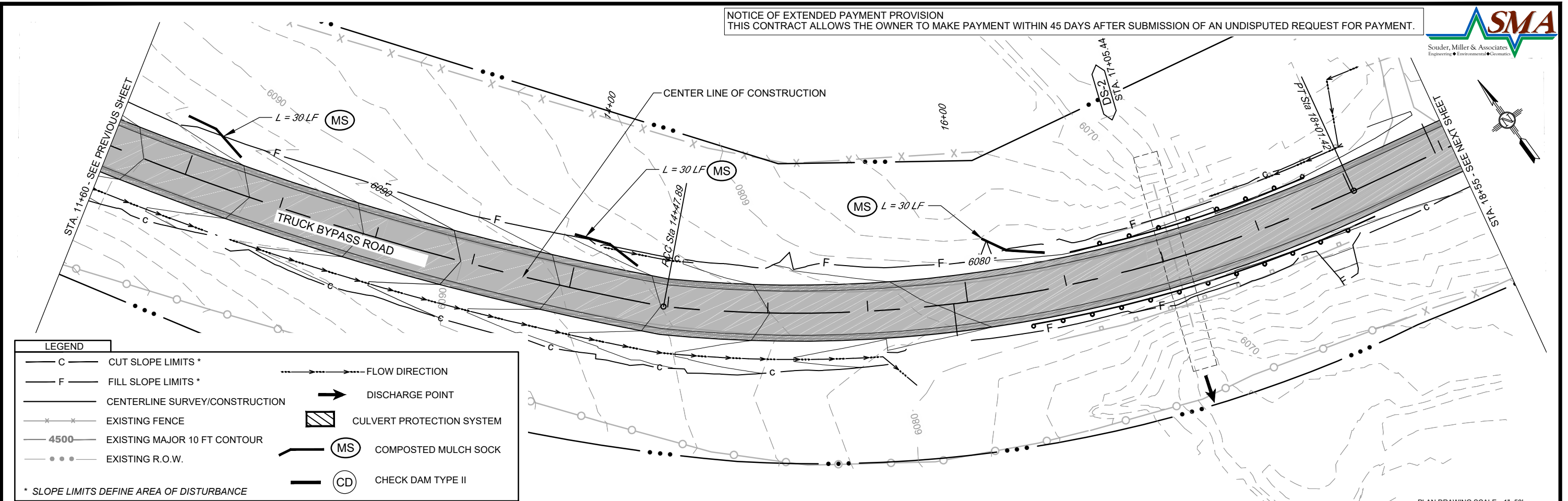
LEGEND	
— C —	CUT SLOPE LIMITS *
— F —	FILL SLOPE LIMITS *
—	CENTERLINE SURVEY/CONSTRUCTION
— X — X —	EXISTING FENCE
— 4500 —	EXISTING MAJOR 10 FT CONTOUR
— · · · —	EXISTING R.O.W.
→	FLOW DIRECTION
→	DISCHARGE POINT
▨	CULVERT PROTECTION SYSTEM
(MS)	COMPOSTED MULCH SOCK
(CD)	CHECK DAM TYPE II

* SLOPE LIMITS DEFINE AREA OF DISTURBANCE

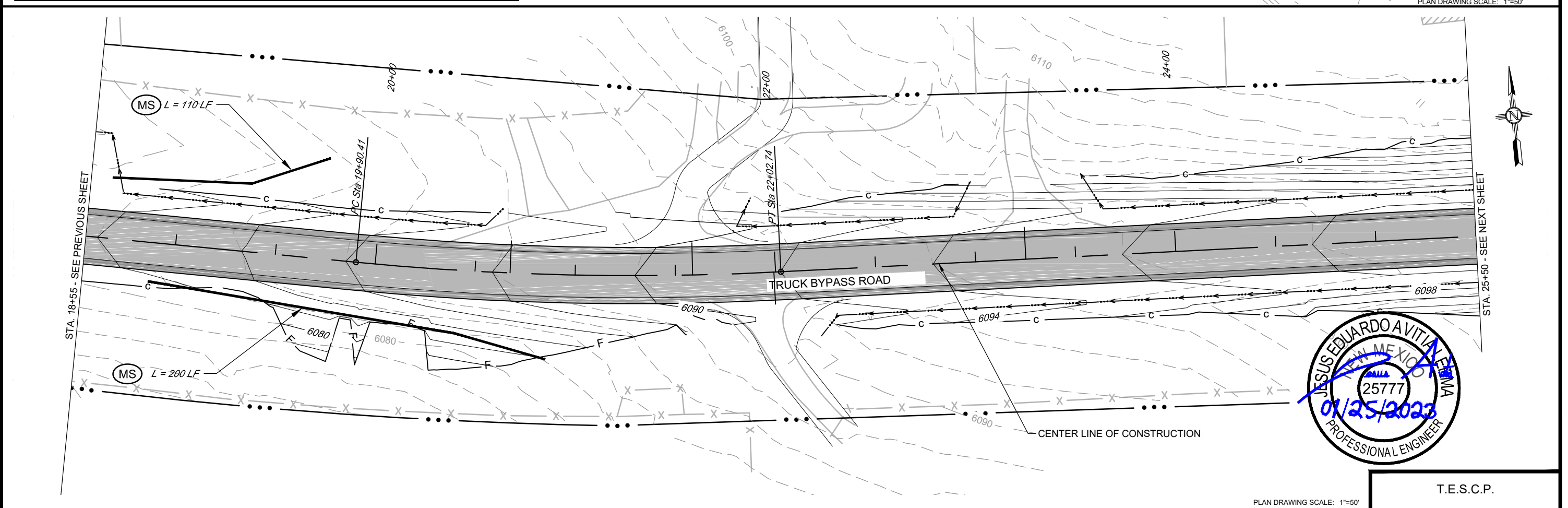


T.E.S.C.P.

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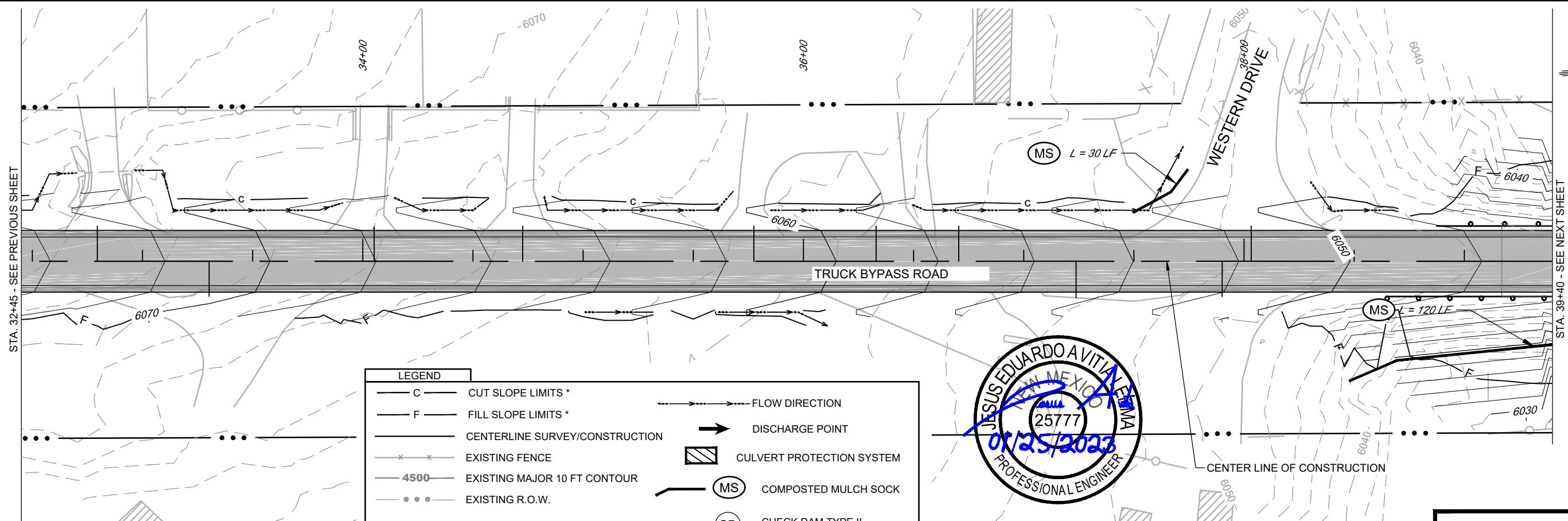
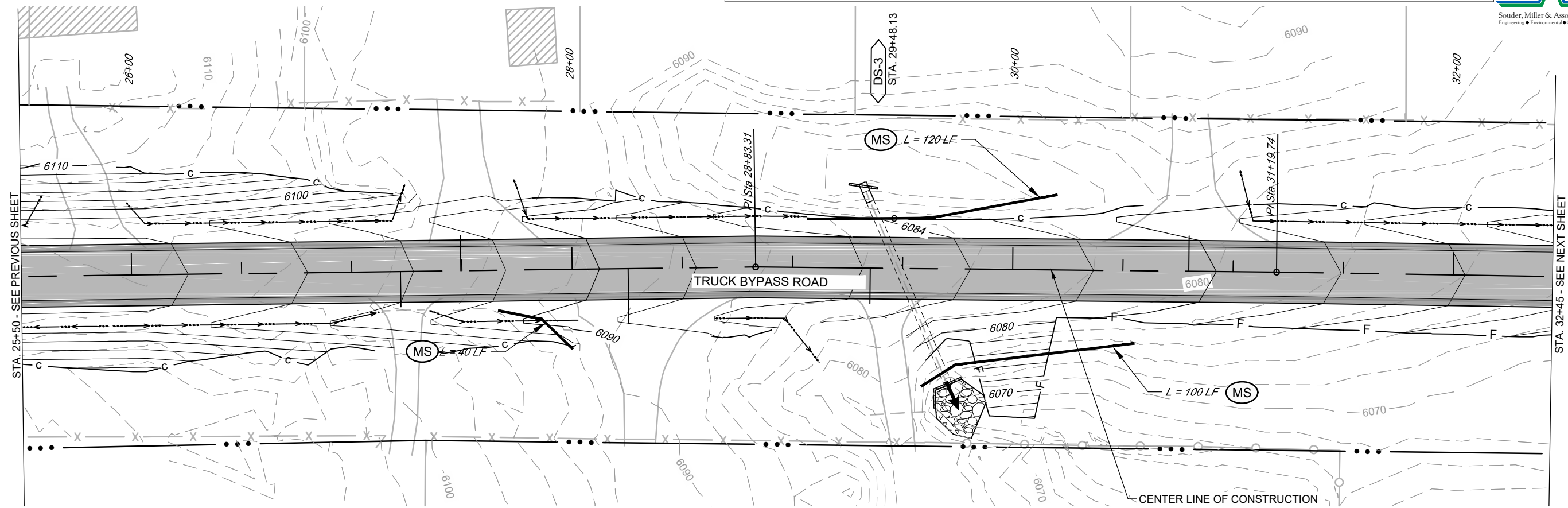
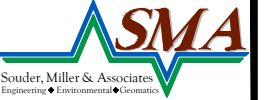
PLAN DRAWING SCALE: 1"=50'



T.E.S.C.P.

PLAN DRAWING SCALE: 1"=50'

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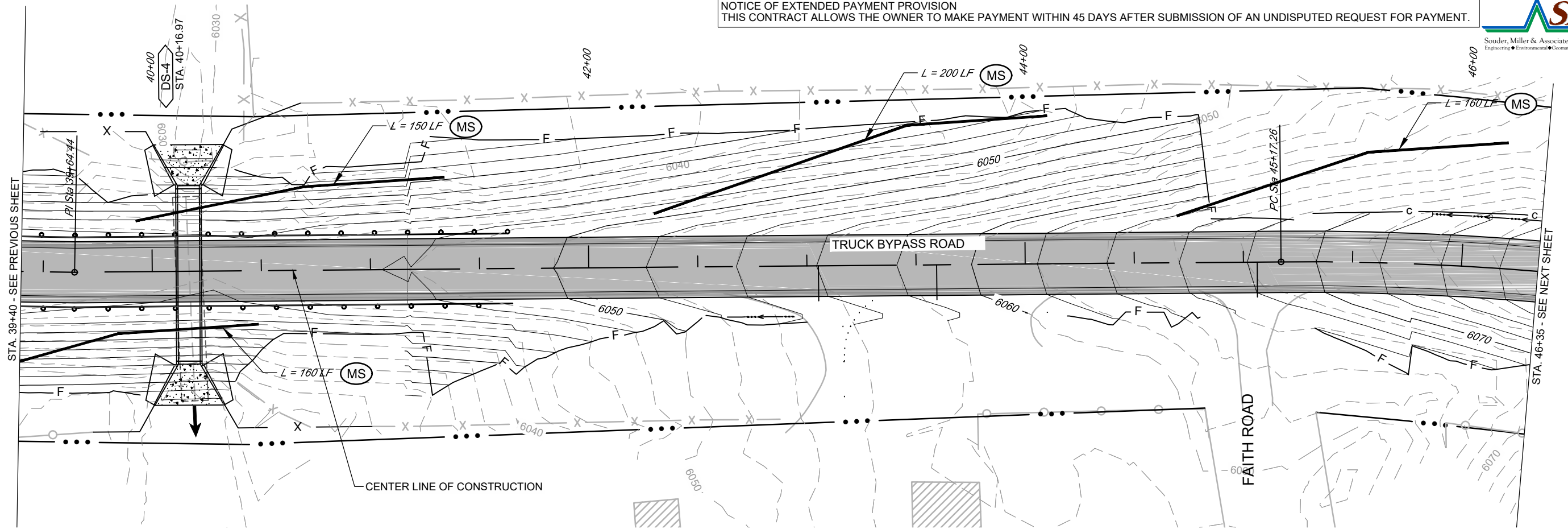
LEGEND	
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— F —	FILL SLOPE LIMITS *
—	CENTERLINE SURVEY/CONSTRUCTION
— X —	EXISTING FENCE
— 4500 —	EXISTING MAJOR 10 FT CONTOUR
— ● —	EXISTING R.O.W.
—>—>—>	FLOW DIRECTION
→	DISCHARGE POINT
▨	CULVERT PROTECTION SYSTEM
— (MS) —	COMPOSTED MULCH SOCK
— (CD) —	CHECK DAM TYPE II

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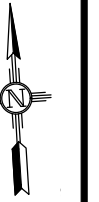
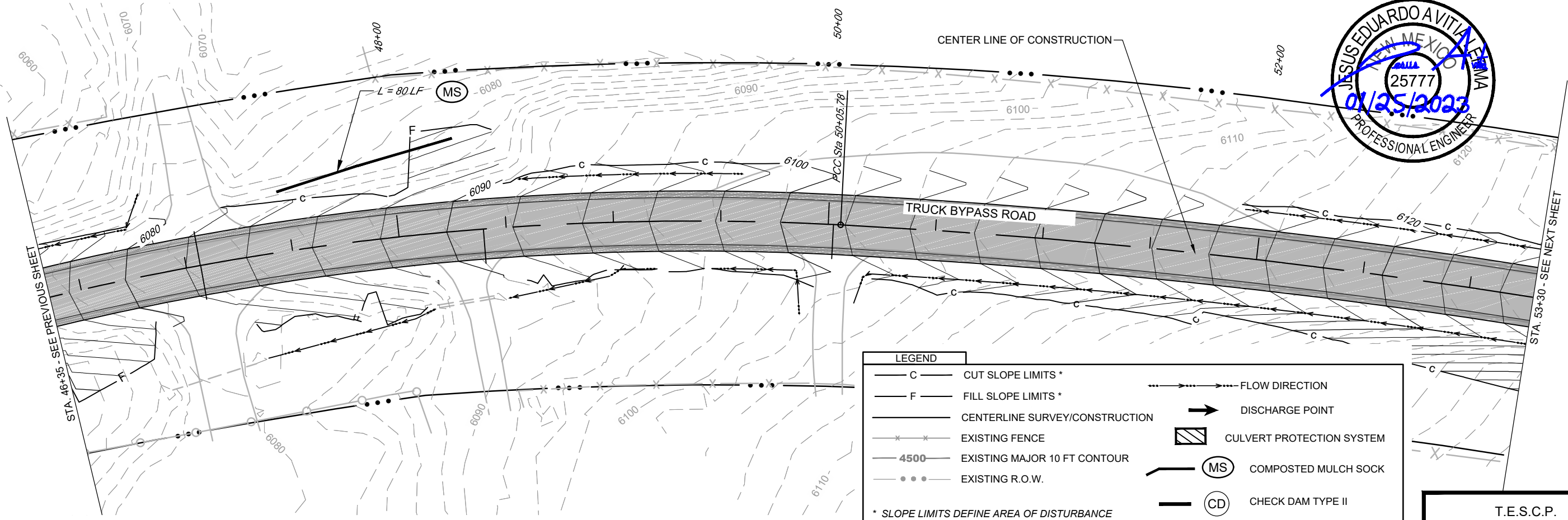


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PLAN DRAWING SCALE: 1"=50'



LEGEND	
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— — —	CENTERLINE SURVEY/CONSTRUCTION
— X — X —	EXISTING FENCE
— 4500 —	EXISTING MAJOR 10 FT CONTOUR
— • • • —	EXISTING R.O.W.
— — —	FLOW DIRECTION
—>—	DISCHARGE POINT
▨	CULVERT PROTECTION SYSTEM
— (MS) —	COMPOSTED MULCH SOCK
— (CD) —	CHECK DAM TYPE II

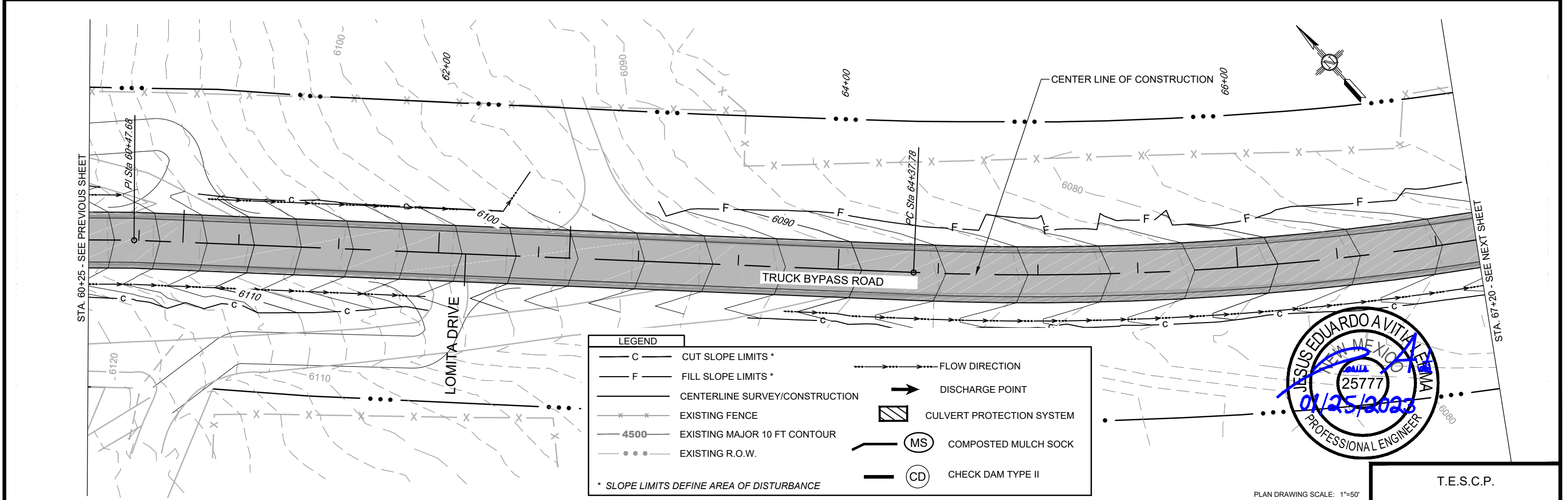
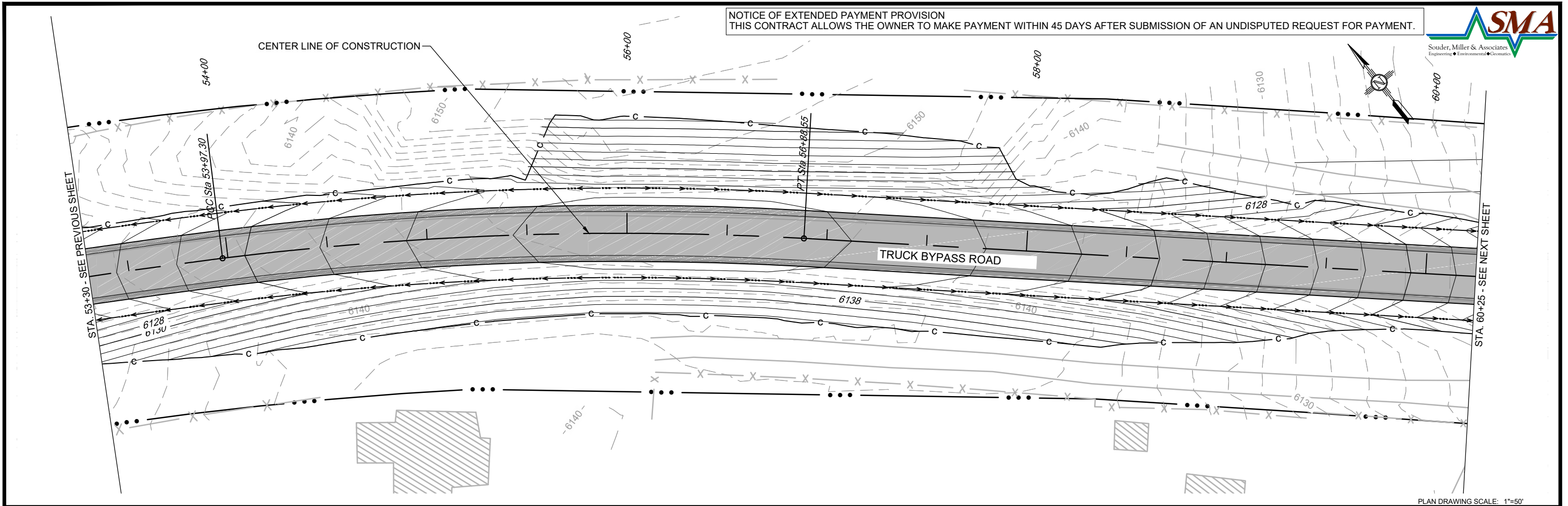
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PLAN DRAWING SCALE: 1"=50'

T.E.S.C.P.



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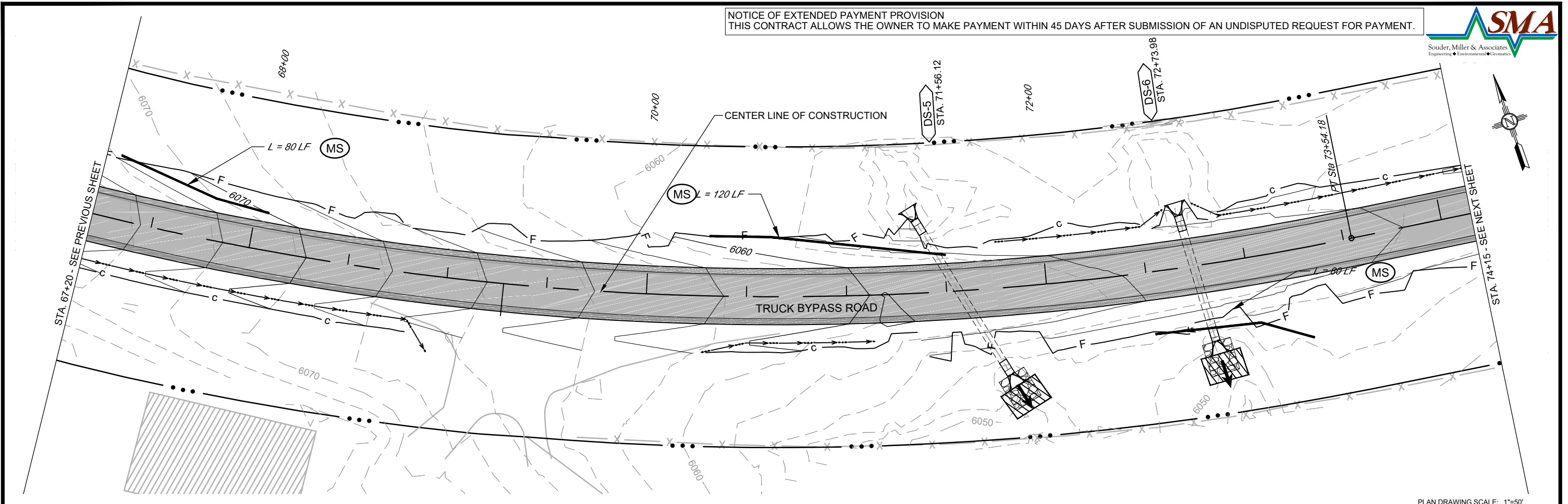
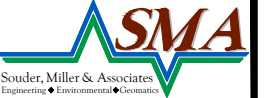
LEGEND	
— C —	CUT SLOPE LIMITS *
— F —	FILL SLOPE LIMITS *
— X — X —	CENTERLINE SURVEY/CONSTRUCTION
— X — X —	EXISTING FENCE
— 4500 —	EXISTING MAJOR 10 FT CONTOUR
— ••• —	EXISTING R.O.W.
→	FLOW DIRECTION
→	DISCHARGE POINT
▨	CULVERT PROTECTION SYSTEM
(MS)	COMPOSTED MULCH SOCK
(CD)	CHECK DAM TYPE II

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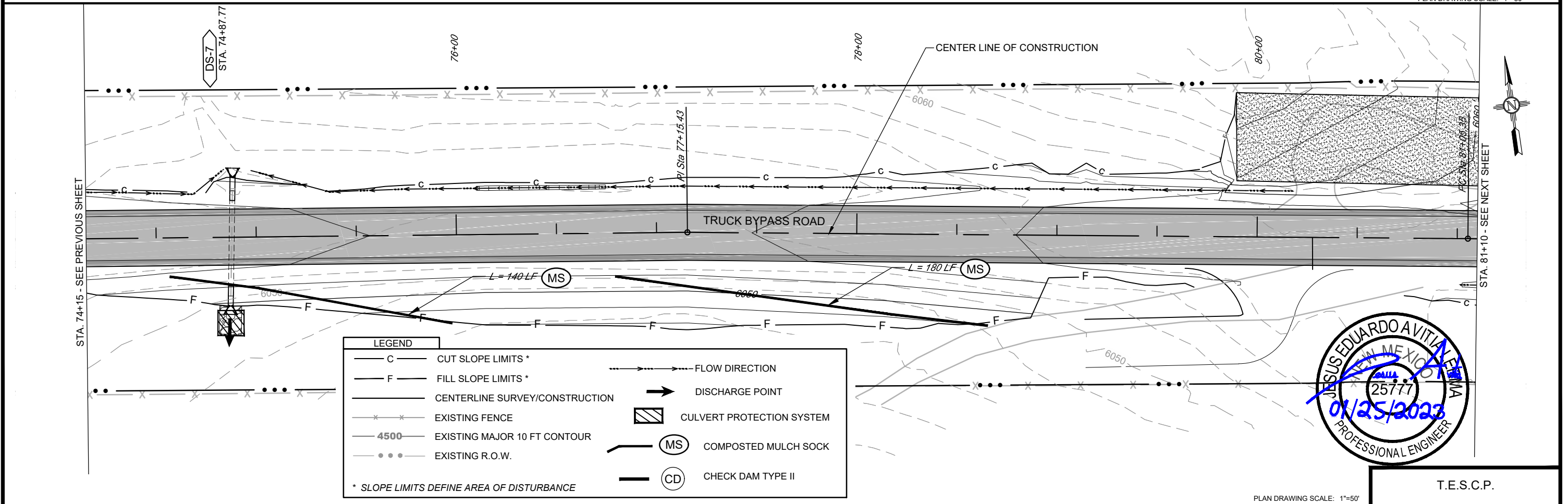


T.E.S.C.P.

NOTICE OF EXTENDED PAYMENT PROVISION
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PLAN DRAWING SCALE: 1"=50'



LEGEND	
— C —	CUT SLOPE LIMITS *
— F —	FILL SLOPE LIMITS *
—	CENTERLINE SURVEY/CONSTRUCTION
x x	EXISTING FENCE
— 4500 —	EXISTING MAJOR 10 FT CONTOUR
— ● —	EXISTING R.O.W.
—	FLOW DIRECTION
→	DISCHARGE POINT
▨	CULVERT PROTECTION SYSTEM
(MS)	COMPOSTED MULCH SOCK
(CD)	CHECK DAM TYPE II

* SLOPE LIMITS DEFINE AREA OF DISTURBANCE

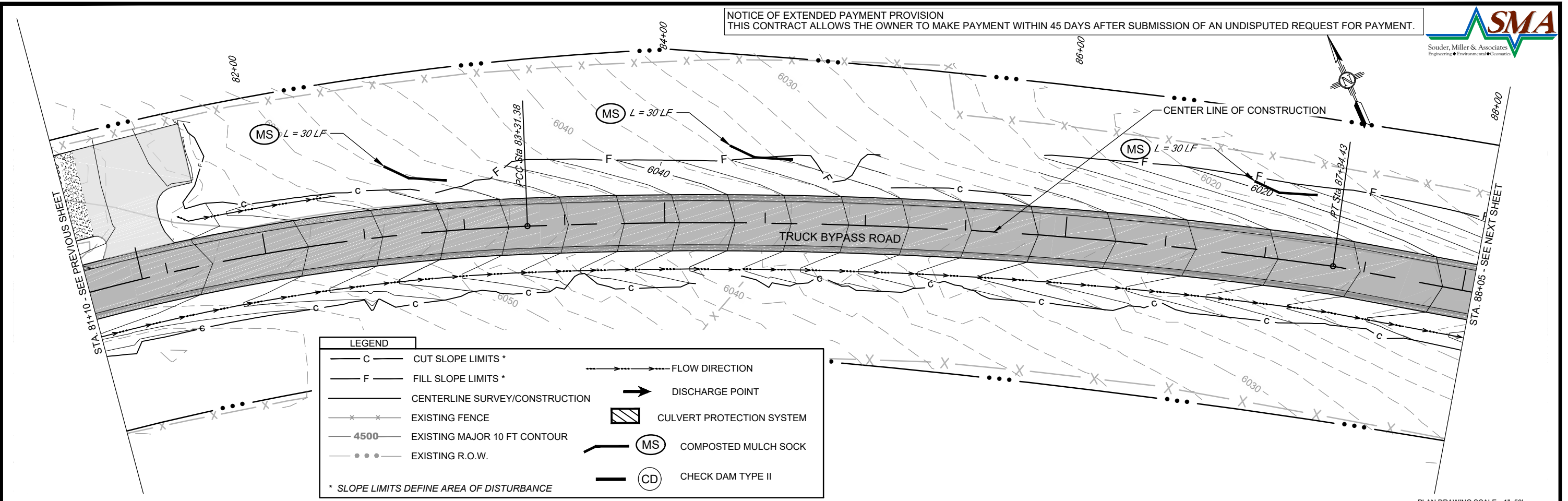


T.E.S.C.P.

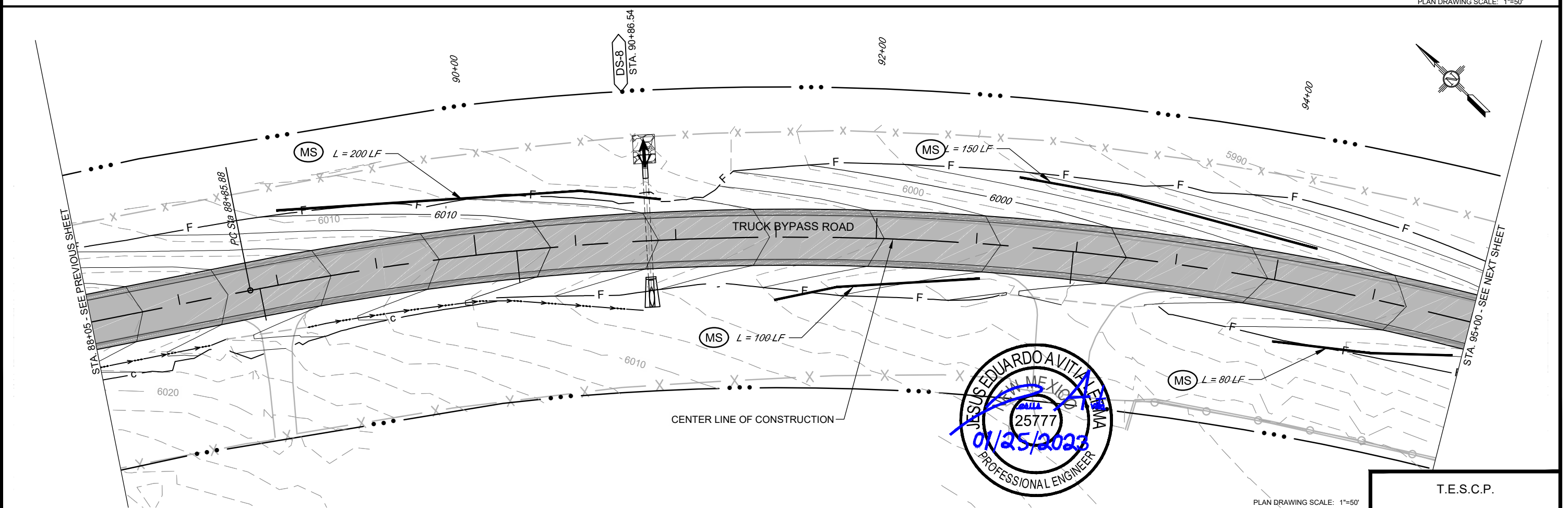
PLAN DRAWING SCALE: 1"=50'



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PLAN DRAWING SCALE: 1"=50'

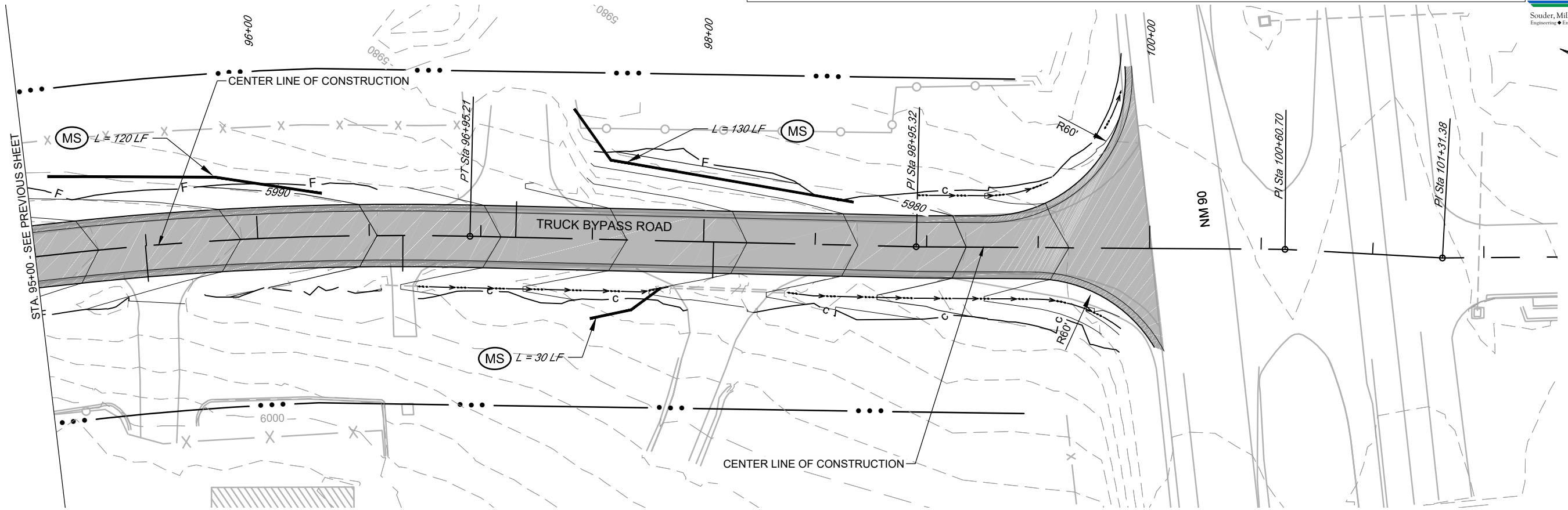
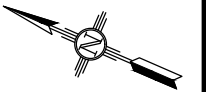


PLAN DRAWING SCALE: 1"=50'



T.E.S.C.P.

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PLAN DRAWING SCALE: 1"=50'

LEGEND	
— C —	CUT SLOPE LIMITS *
— F —	FILL SLOPE LIMITS *
—	CENTERLINE SURVEY/CONSTRUCTION
— X — X —	EXISTING FENCE
— 4500 —	EXISTING MAJOR 10 FT CONTOUR
— • • • —	EXISTING R.O.W.
—	FLOW DIRECTION
→	DISCHARGE POINT
▨	CULVERT PROTECTION SYSTEM
— (MS) —	COMPOSTED MULCH SOCK
— (CD) —	CHECK DAM TYPE II

* SLOPE LIMITS DEFINE AREA OF DISTURBANCE



T.E.S.C.P.

PLAN DRAWING SCALE: 1"=50'

NOTICE OF EXTENDED PAYMENT PROVISION
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TEMPORARY EROSION & SEDIMENT CONTROL MEASURE QUANTITIES (1/2)			603260	603261	
			CULVERT PROTECTION	COMPOSTED MULCH SOCKS	
STATION TO STATION	DESCRIPTION	LOC.	SQ. YD.	LIN. FT.	
UNIT 1					
2+18.49	2+78.35	SLOPE PROTECTION		60	
2+68.30	3+22.15	SLOPE PROTECTION		60	
3+01.11	3+20.59	CULVERT PROTECTION	21.4		
5+37.48	5+74.72	SLOPE PROTECTION		40	
7+86.06	8+13.82	SLOPE PROTECTION		30	
11+91.50	12+23.33	SLOPE PROTECTION		30	
13+97.26	14+31.53	SLOPE PROTECTION		30	
16+11.62	16+42.69	SLOPE PROTECTION		30	
18+65.82	19+73.26	SLOPE PROTECTION		110	
18+88.85	20+86.22	SLOPE PROTECTION		200	
27+66.16	280+00.00	SLOPE PROTECTION		40	
29+05.99	30+19.76	SLOPE PROTECTION		120	
28+58.83	30+55.37	SLOPE PROTECTION		100	
37+49.34	37+74.83	SLOPE PROTECTION		30	
38+48.50	39+39.65	SLOPE PROTECTION		120	
39+40.31	40+48.55	SLOPE PROTECTION		160	
39+92.90	41+34.12	SLOPE PROTECTION		150	
42+30.30	44+09.90	SLOPE PROTECTION		200	
44+70.80	46+16.96	SLOPE PROTECTION		160	
47+47.18	48+28.24	SLOPE PROTECTION		80	
67+26.77	68+06.96	SLOPE PROTECTION		80	
70+30.76	71+50.77	SLOPE PROTECTION		120	
71+73.26	71+97.05	CULVERT PROTECTION	31.7		
72+51.06	73+26.75	SLOPE PROTECTION		80	
72+71.44	72+92.86	CULVERT PROTECTION	31.7		
74+56.78	75+97.40	SLOPE PROTECTION		140	
74+79.95	74+93.43	CULVERT PROTECTION	17.8		
76+79.46	78+65.67	SLOPE PROTECTION		180	
82+63.63	82+93.84	SLOPE PROTECTION		30	
84+31.91	84+64.10	SLOPE PROTECTION		30	
86+90.01	87+21.72	SLOPE PROTECTION		30	
89+05.74	90+93.07	SLOPE PROTECTION		200	
UNIT 2					
91+50.00	92+52.52	SLOPE PROTECTION		100	
92+70.00	94+17.19	SLOPE PROTECTION		150	
94+04.38	94+94.95	SLOPE PROTECTION		80	
95+09.50	96+29.12	SLOPE PROTECTION		120	
97+40.76	98+67.07	SLOPE PROTECTION		130	
97+49.80	97+81.11	SLOPE PROTECTION		30	
UNIT 1			TOTAL	102.56	2640.00
UNIT 1			USE	110.00	2640.00
UNIT 2			TOTAL	0	610
UNIT 2			USE	0	610
SUBTOTAL			102.56	3250.00	
PROJECT TOTAL			102.56	3250.00	
PROJECT USE			110	3250	



NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)



**GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
TESCP QUANTITIES**

BASIS OF BEARINGS:

REFERENCE FRAME: NAD 1983 (2011) (EPOCH 2010.000)
 U.S. STATE PLANE NEW MEXICO WEST ZONE (3003)
 GRID TO GROUND SCALE FACTOR = 1.0003507497
 SCALED FROM: N32°45'21.37619", W108°17'49.45949"
 (N = 542447.395 E = 1528388.834)
 PROJECT HEIGHT: 6073.958'
 ALL DISTANCES ARE GROUND DISTANCES, UNITS ARE U.S. SURVEY FEET.

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
700	639059.05	2580528.37	6152.465	1/2 IR SMA CAP
701	638069.9	2582702.22	6060.612	1/2 IR SMA CAP
702	636676.48	2583907.25	5983.16	1/2 IR SMA CAP
703	640744.9	2575583.53	6138.182	1/2 IR SMA CAP
704	639483.73	2578678.88	6054.103	1/2 IR SMA CAP

VERTICAL DATUM:

NAVD 1988
 GEOID 18 (CONUS) WAS UTILIZED TO ESTABLISH ORTHO HEIGHTS

METHODS:

ORIGINAL CONTROL ON THIS PROJECT WAS OBSERVED AND SET DECEMBER 30, 2020 WITH FINAL ADJUSTMENTS MADE BY JANUARY 20, 2020. ALL POINTS WERE OBSERVED USING TRIMBLE S5 TOTAL STATION AND TRIMBLE R8 GPS RECEIVERS UTILIZING RTK GPS METHODS.



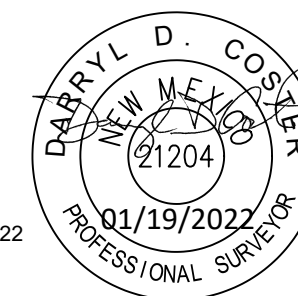
SURVEY CONTROL

CERTIFICATION:

I, DARRYL D. COSTER, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21204, DO HEREBY CERTIFY THAT THIS CONTROL SURVEY REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION BASED ON AN ACTUAL SURVEY ON THE GROUND AS DESCRIBED HEREIN; THAT I AM RESPONSIBLE FOR THIS SURVEY; AND THAT THE SURVEY AND REPORT MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

Darryl D. Coster
 DARRYL D. COSTER, N.M.P.S. 21204

JANUARY 19, 2022
 DATE



NO.	DESCRIPTION	DATE	BY
4			
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)


GRANT COUNTY TRUCK BYPASS
 ROADWAY & DRAINAGE IMPROVEMENTS
 SURVEY CONTROL

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



4			
3			
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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)



GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
ALIGNMENT CONTROL

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LINE TABLE						
Line #	Length	Bearing	Start Point	End Point	Start Station	End Station
L1	71.263	S24° 51' 28.58"E	(2575661.2150, 640714.9386)	(2575691.1720, 640650.2776)	1+00.00	1+71.26
L2	456.940	S30° 03' 04.92"E	(2575691.1720, 640650.2776)	(2575919.9965, 640254.7613)	1+71.26	6+28.20
L3	275.553	S30° 42' 43.32"E	(2575919.9965, 640254.7613)	(2576060.7280, 640017.8557)	6+28.20	9+03.76
L4	196.908	S32° 47' 19.17"E	(2576060.7280, 640017.8557)	(2576167.3617, 639852.3207)	9+03.76	11+00.66
L5	188.985	S82° 13' 14.63"E	(2576712.1644, 639450.8193)	(2576899.4105, 639425.2388)	18+01.42	19+90.41
L6	680.568	N89° 19' 50.36"E	(2577111.1468, 639412.0846)	(2577791.6685, 639420.0350)	22+02.74	28+83.31
L7	236.429	S89° 22' 34.33"E	(2577791.6685, 639420.0350)	(2578028.0834, 639417.4609)	28+83.31	31+19.74
L8	844.705	S89° 03' 21.40"E	(2578028.0834, 639417.4609)	(2578872.6737, 639403.5435)	31+19.74	39+64.44
L9	552.816	N89° 28' 28.39"E	(2578872.6737, 639403.5435)	(2579425.4668, 639408.6132)	39+64.44	45+17.26
L10	359.127	S51° 17' 54.01"E	(2580501.0621, 638997.2423)	(2580781.3293, 638772.6926)	56+88.55	60+47.68
L11	390.104	S49° 15' 49.32"E	(2580781.3293, 638772.6926)	(2581076.9197, 638518.1188)	60+47.68	64+37.78
L12	361.256	S86° 06' 34.97"E	(2581910.1634, 638176.1547)	(2582270.5873, 638151.6449)	73+54.18	77+15.43
L13	389.916	S85° 02' 01.34"E	(2582270.5873, 638151.6449)	(2582659.0394, 638117.8900)	77+15.43	81+05.35
L14	151.456	S59° 16' 18.30"E	(2583250.6202, 637915.8582)	(2583380.8119, 637838.4692)	87+34.43	88+85.88
L15	200.110	S25° 40' 10.83"E	(2583919.4806, 637250.0119)	(2584006.1647, 637069.6514)	96+95.21	98+95.32
L16	165.384	S26° 36' 18.32"E	(2584006.1647, 637069.6514)	(2584080.2301, 636921.7789)	98+95.32	100+60.70
L17	70.680	S23° 52' 36.07"E	(2584080.2301, 636921.7789)	(2584108.8392, 636857.1479)	100+60.70	101+31.38
L18	87.840	S27° 28' 45.17"E	(2584108.8392, 636857.1479)	(2584149.3710, 636779.2180)	101+31.38	102+19.22

GEOMETRIC CURVE TABLE						
Curve No:	Alignment	P.I.	Delta	Radius	Length	Tangent
C1	CL01	12+75.07	Δ = 13°24'27"	1483.84'	347.22'	174.41'
C2	CL01	16+28.94	Δ = 30°27'36"	665.00'	353.53'	181.05'
C3	CL01	20+96.77	Δ = 8°26'55"	1440.00'	212.34'	106.36'
C4	CL01	47+64.48	Δ = 21°41'52"	1290.00'	488.52'	247.22'
C5	CL01	52+01.79	Δ = 7°08'42"	3139.56'	391.52'	196.01'
C6	CL01	55+43.32	Δ = 10°23'03"	1607.00'	291.25'	146.03'
C7	CL01	69+12.45	Δ = 36°50'46"	1425.00'	916.40'	474.67'
C8	CL01	82+18.85	Δ = 12°57'02"	1000.00'	226.03'	113.50'
C9	CL01	85+33.43	Δ = 10°10'14"	2270.58'	403.05'	202.05'
C10	CL01	93+02.56	Δ = 33°36'07"	1380.00'	809.32'	416.67'

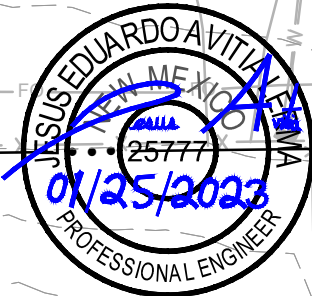
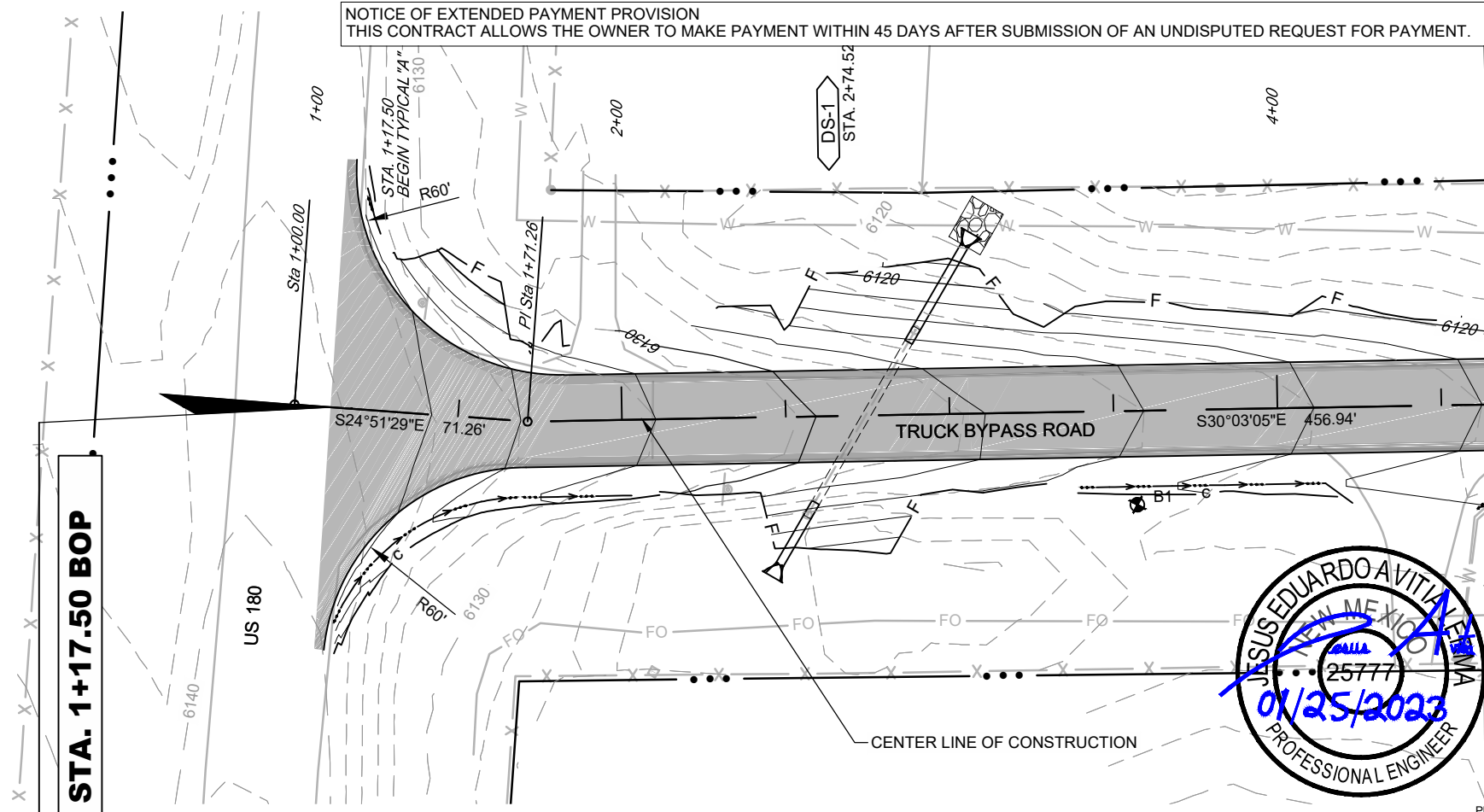
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REVISIONS (OR CHANGE NOTICES)



GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
ALIGNMENT CONTROL

LEGEND	
C	CUT SLOPE LIMITS
F	FILL SLOPE LIMITS
---	CENTERLINE SURVEY/CONSTRUCTION
X	EXISTING FENCE
---3400---	MAJOR 2FT CONTOUR
...	EXISTING R.O.W.
○-○-○	PROPOSED METAL BARRIER
[Hatched Box]	PROPOSED 3" HMA SP III COMPLETE, FULL RECONSTRUCTION & WIDENING
[Dotted Box]	PROPOSED BASECOURSE SURFACING
[Diagonal Lines Box]	EXISTING BUILDING
[Triangle Pattern Box]	PROPOSED CLASS A RIP-RAP PAD
[Circle Pattern Box]	PROPOSED CLASS B RIP-RAP PAD
[Stippled Box]	PROPOSED CONCRETE PAD
DS-XX	DRAINAGE STRUCTURE REFERENCE No.
MB-XX	METAL BARRIER REFERENCE No.
FN-XX	PROPOSED NMDOT BARBED WIRE FENCE 4'
⊕	BORE (SUBSURFACE CONDITION), SEE PAVEMENT DESIGN REPORT
▲	BORE (SUBSURFACE CONDITION AT DS-4), SEE GEOTECHNICAL REPORT



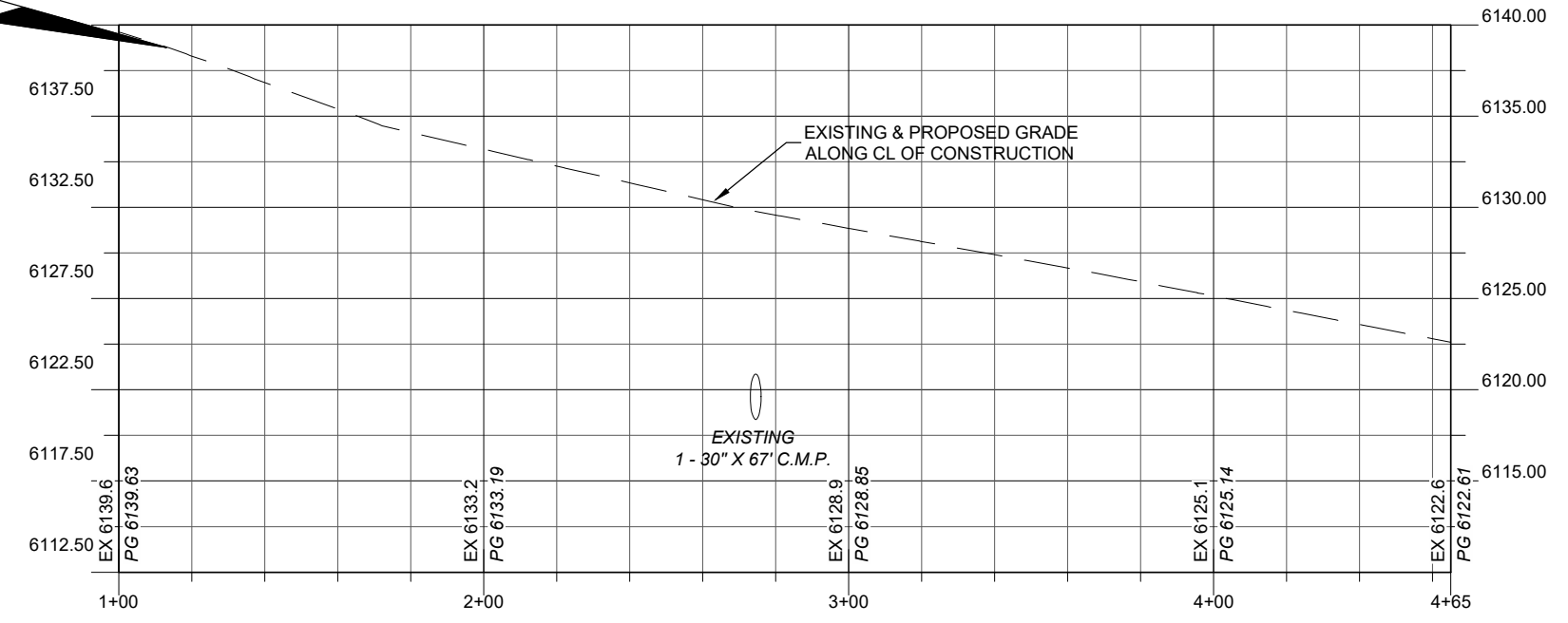
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HORIZONTAL SCALE: 1"=50' VERTICAL SCALE: 1"=10'

PROJECT BEGINS WITHIN SECTION 08, TOWNSHIP 18 SOUTH, RANGE 14 WEST AND
PROJECT ENDS WITHIN SECTION 10, TOWNSHIP 18 SOUTH, RANGE 14 WEST.

- GENERAL NOTES:**
1. ALL STATIONS AND OFFSETS REFERENCE CENTERLINE OF CONSTRUCTION UNLESS OTHERWISE NOTED.
 2. ALL HORIZONTAL CURVES ON THIS PROJECT ARE BASED ON THE ARC DEFINITION RADIUS OF 1° (ONE DEGREE)=5729.578'
 3. SEE SHEET 3-0 FOR SURVEY CONTROL.
 4. PROFILE GRADE IS 3" ABOVE EXISTING GRADE.
 5. SEE TURNOUT SCHEDULES AND TURNOUT PROFILES FOR ADDITIONAL INFORMATION.
 6. SEE METAL BARRIER AND ROADSIDE BARRIER PLANS FOR ADDITIONAL INFORMATION.
 7. TURNOUT CENTERLINES ARE PERPENDICULAR / 90° TO TRUCK BYPASS ROAD CENTERLINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.

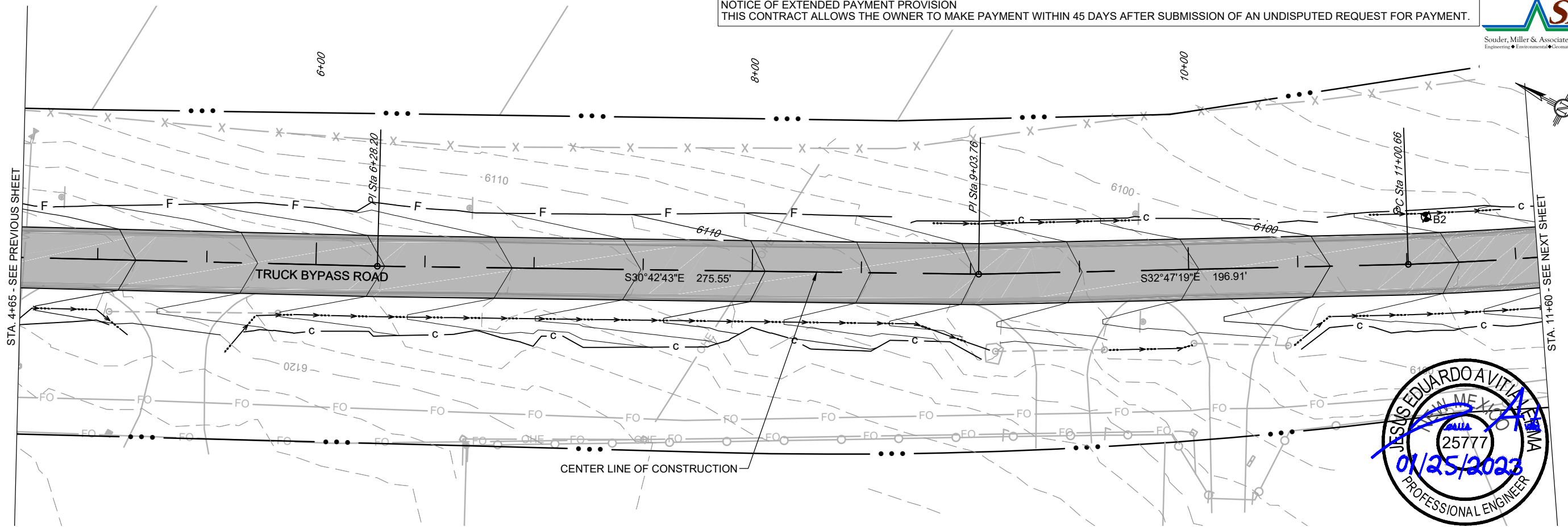
UTILITY CONTACTS:

P.N.M. POWER:	800-321-2537
NEW MEXICO GAS COMPANY:	888-664-2726
EL PASO NATURAL GAS:	575-544-5239
QWEST TELEPHONE:	800-777-9594
TOWN OF HURLEY SEWER:	575-537-2287
GRANT COUNTY GRAVITY SEWER:	575-574-0000
N HURLEY WATER ASSOCIATION:	575-537-3455

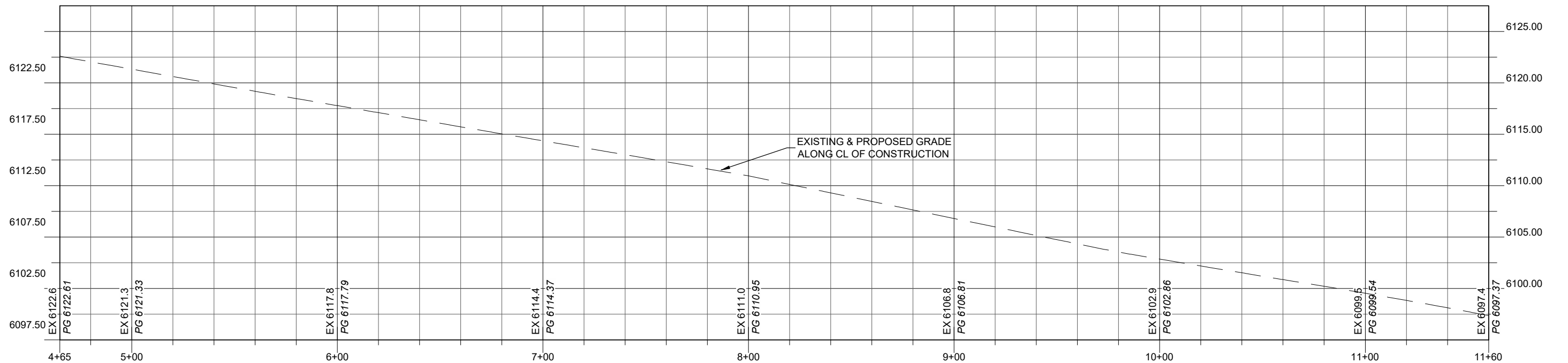


PLAN AND PROFILES

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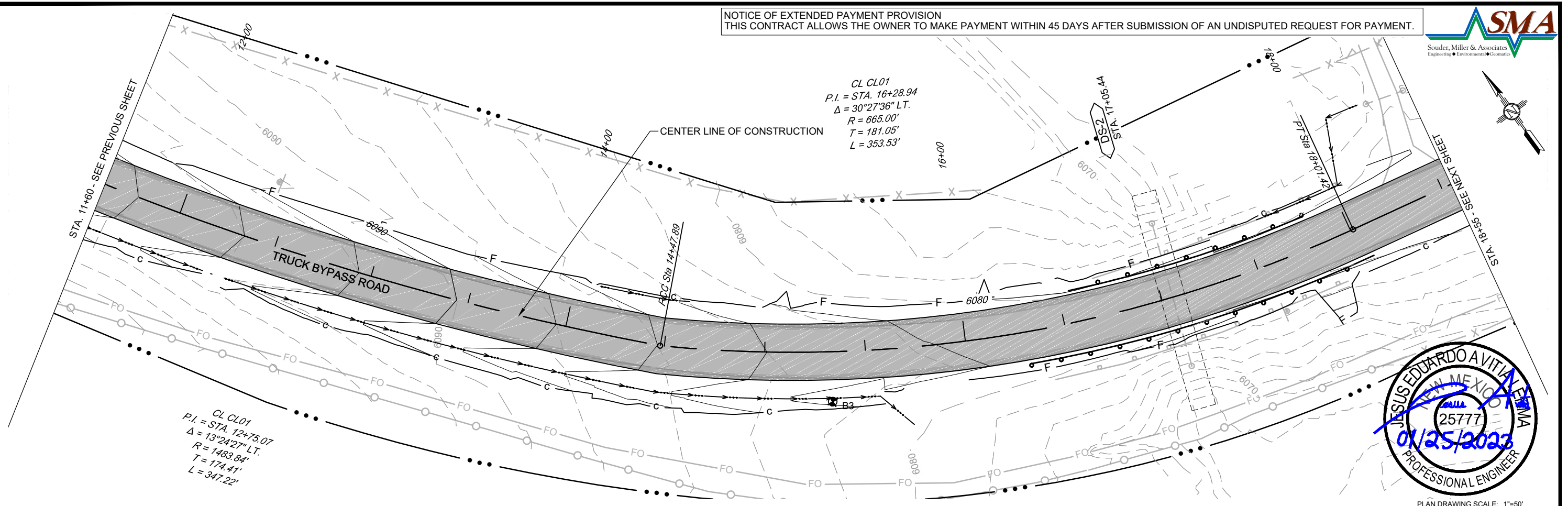
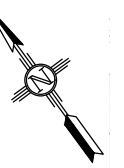
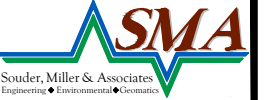


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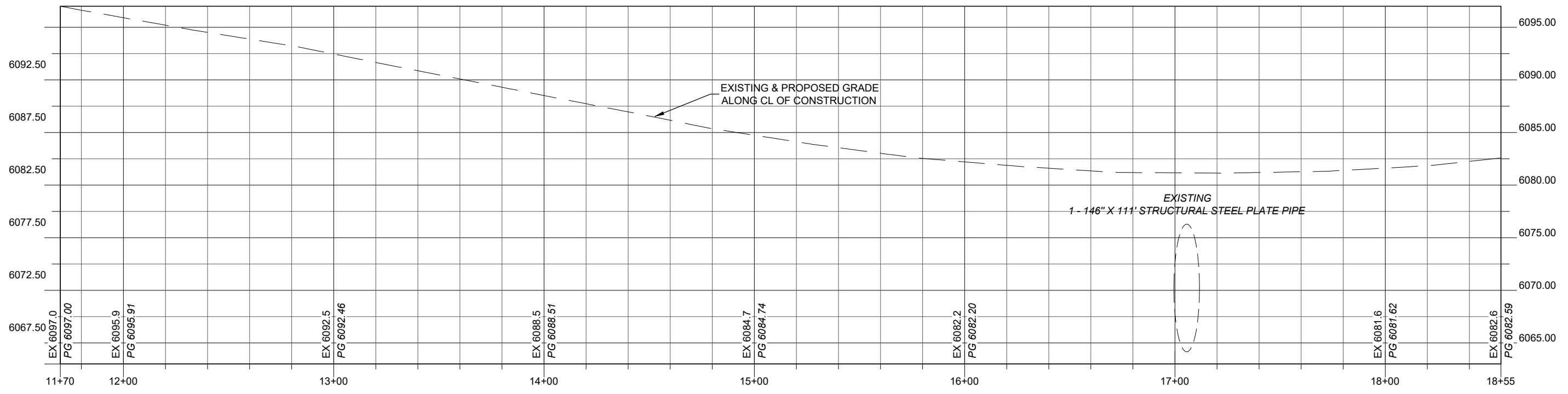


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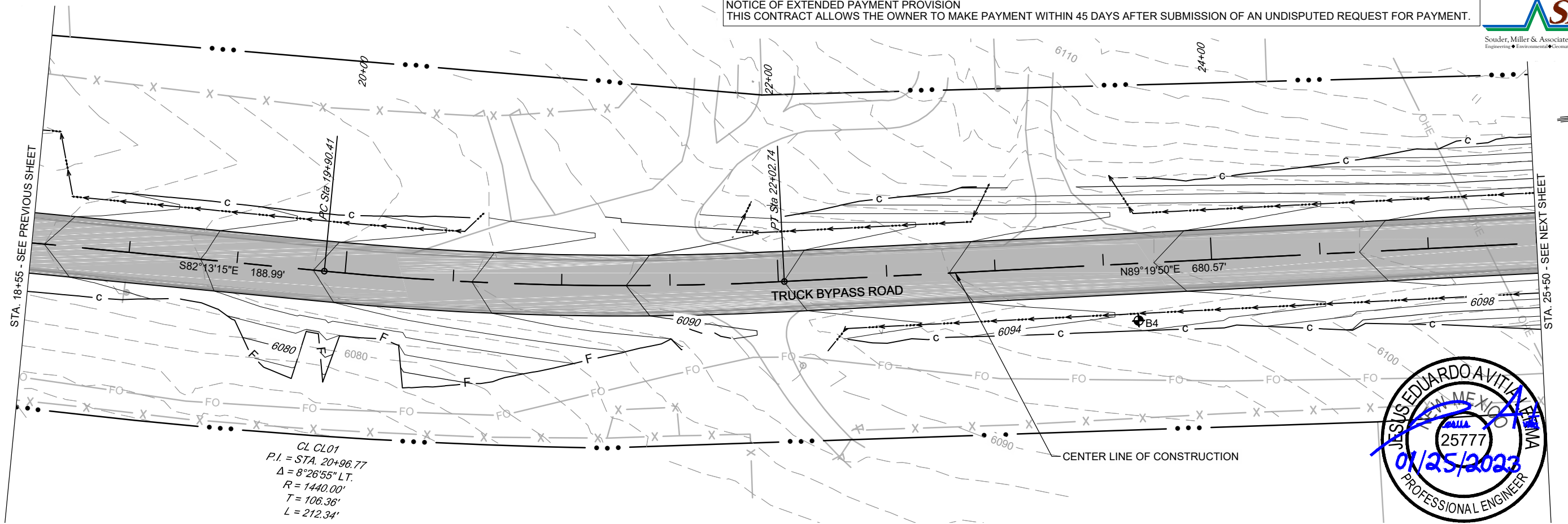
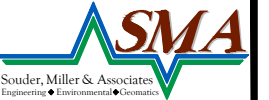


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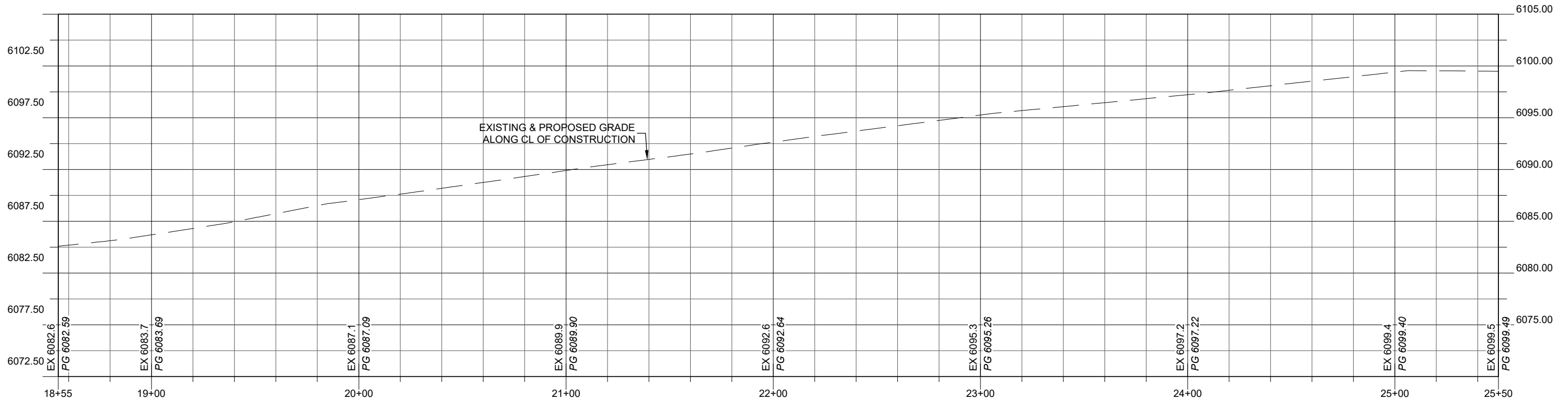


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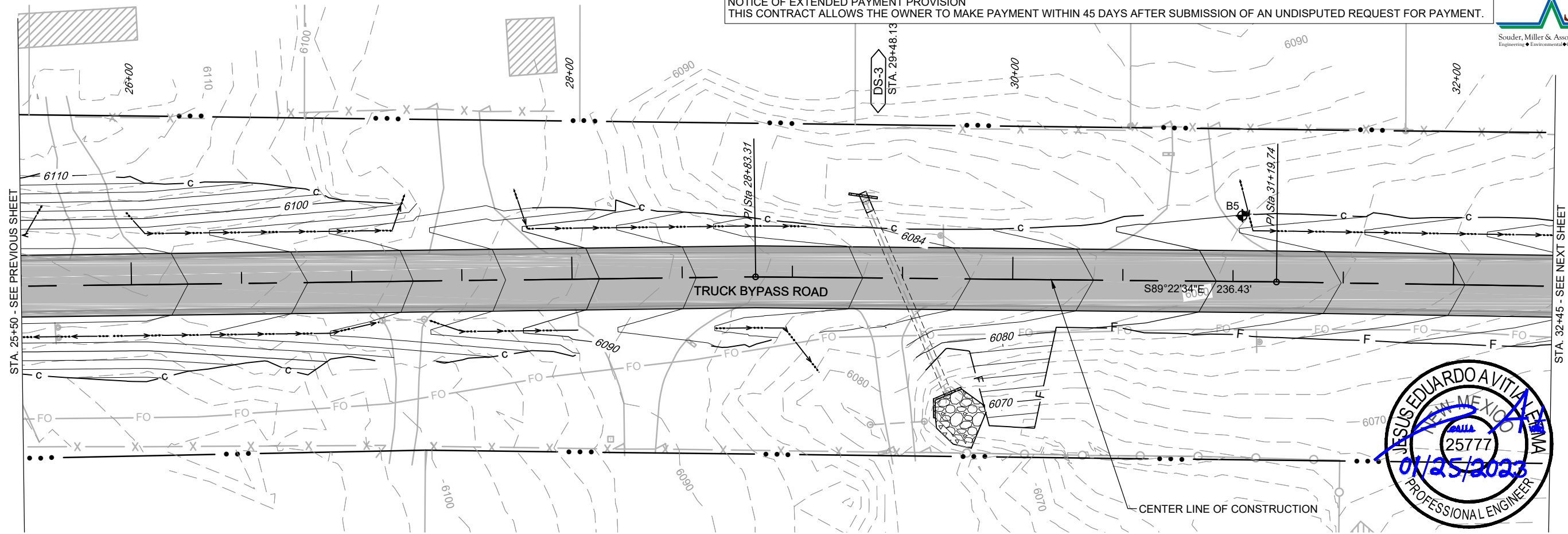
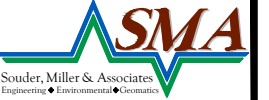


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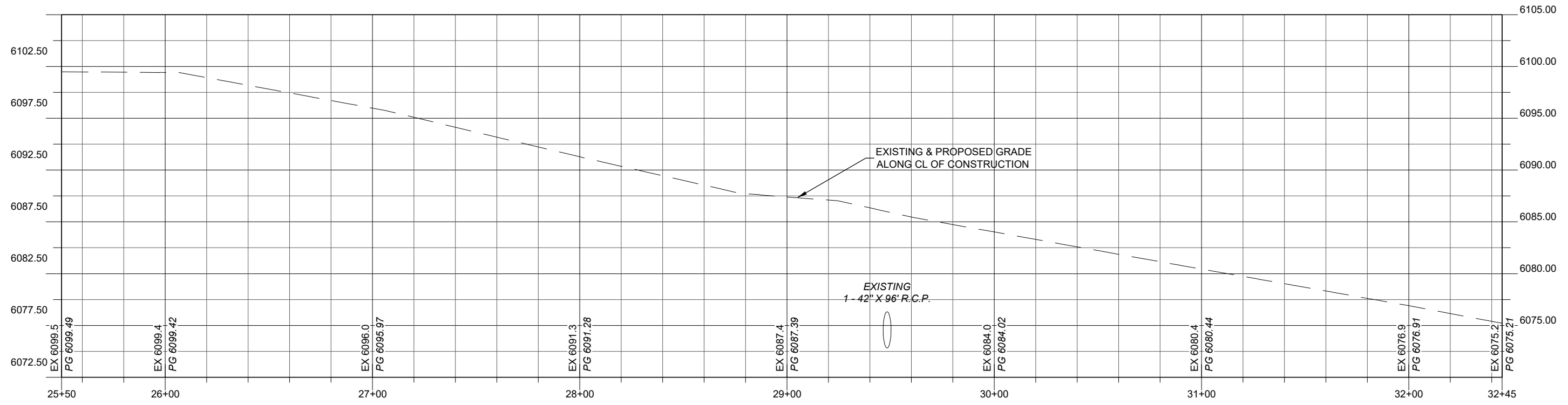


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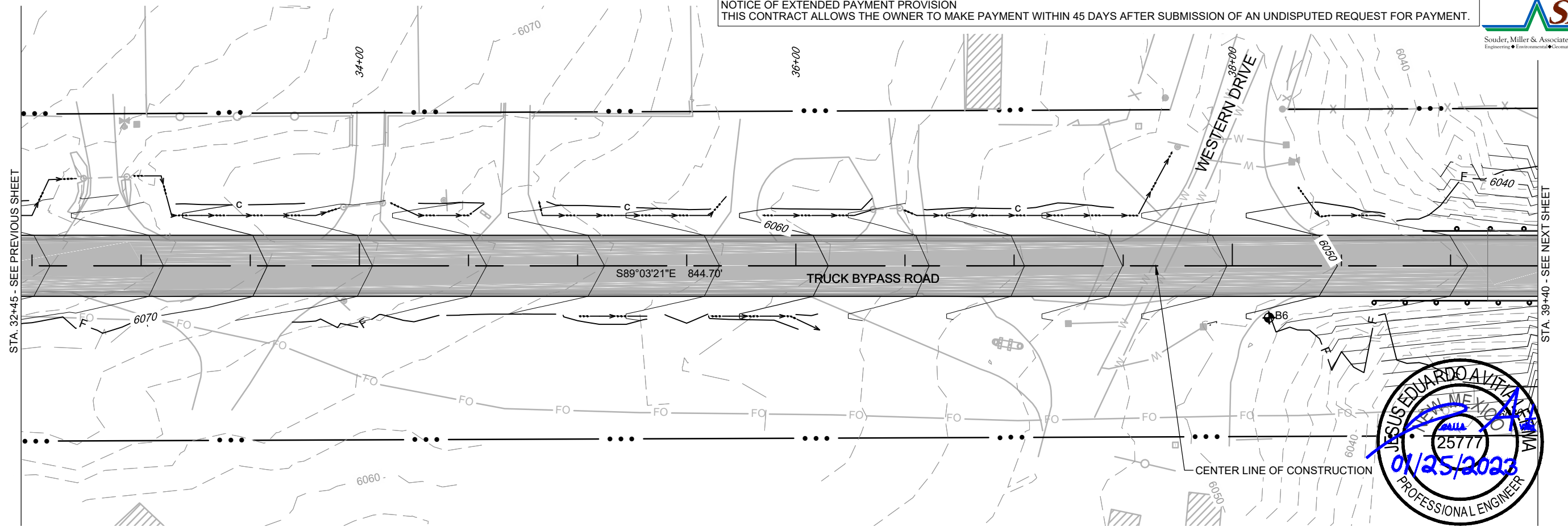
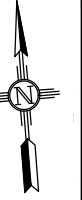
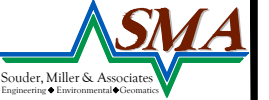


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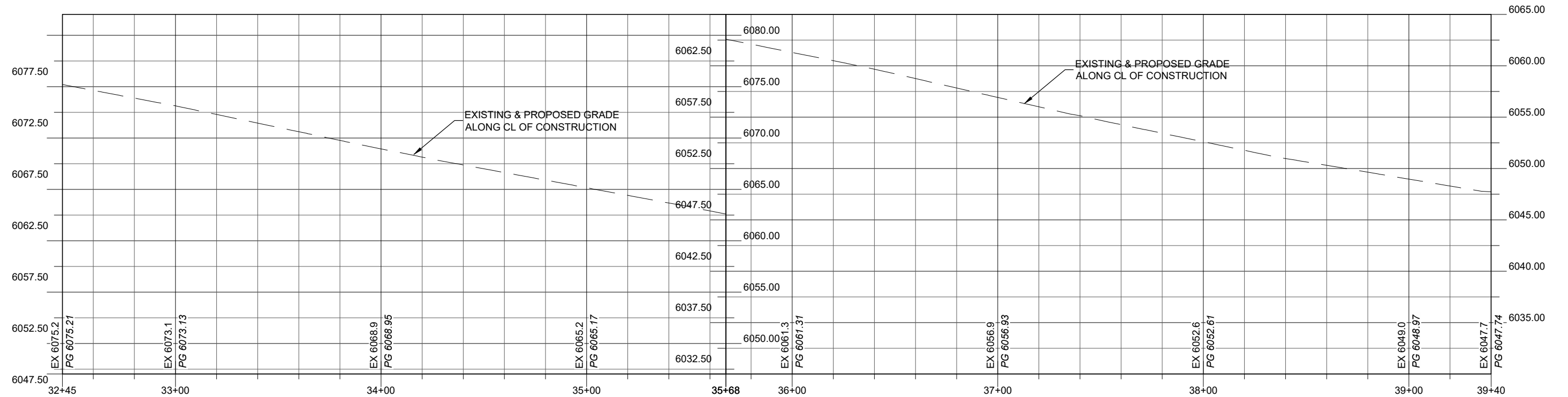


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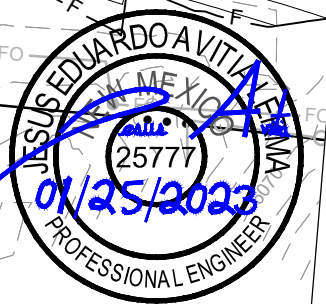
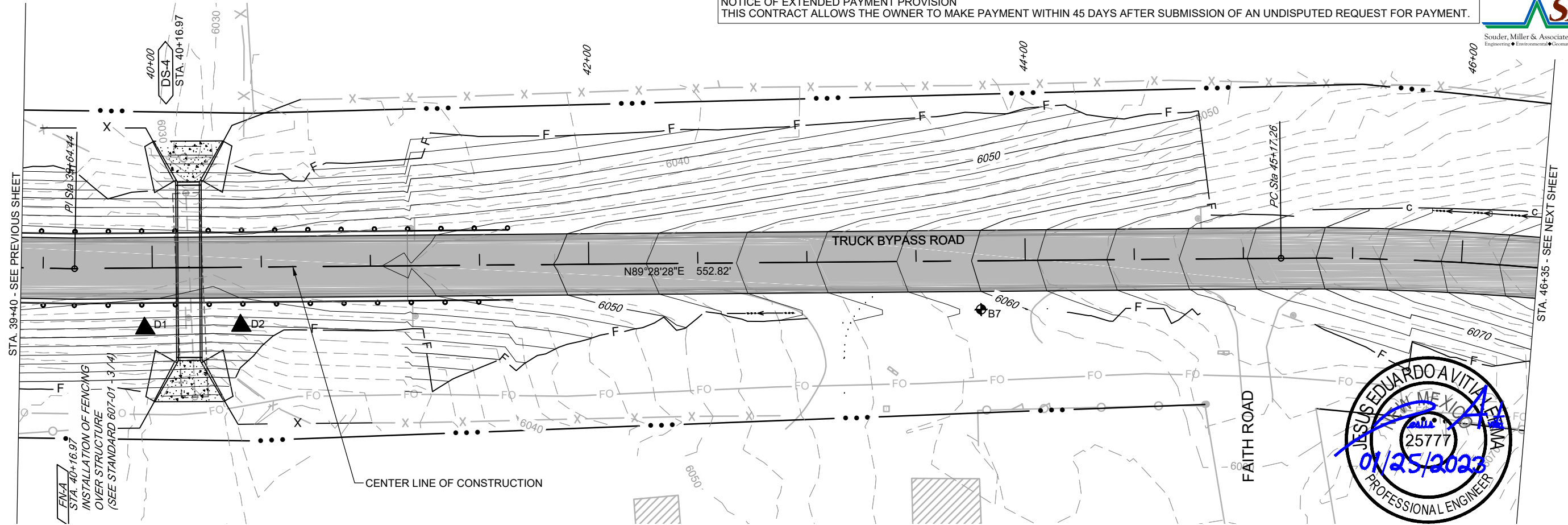


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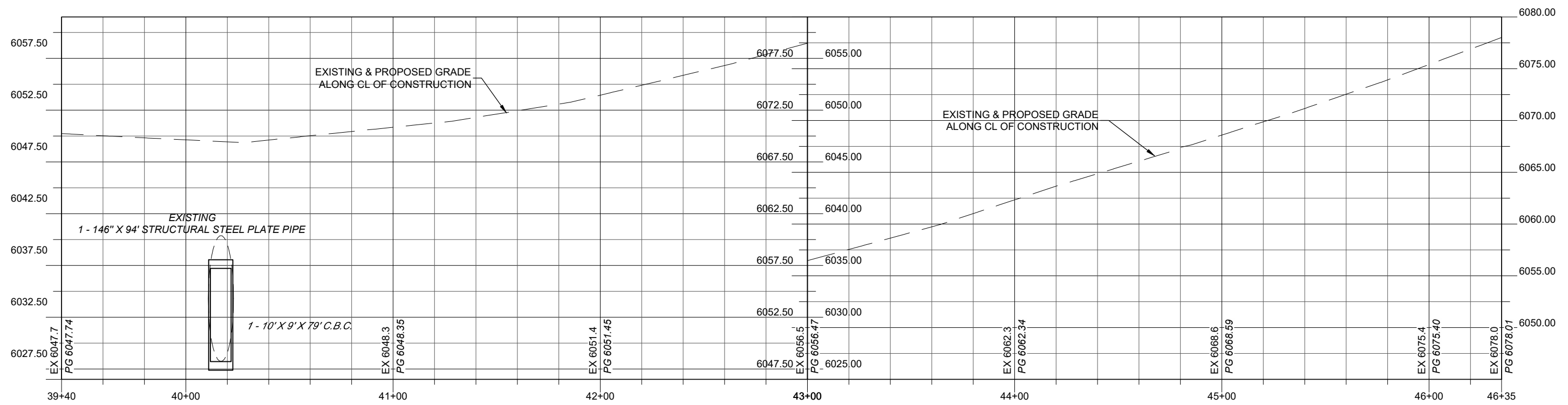


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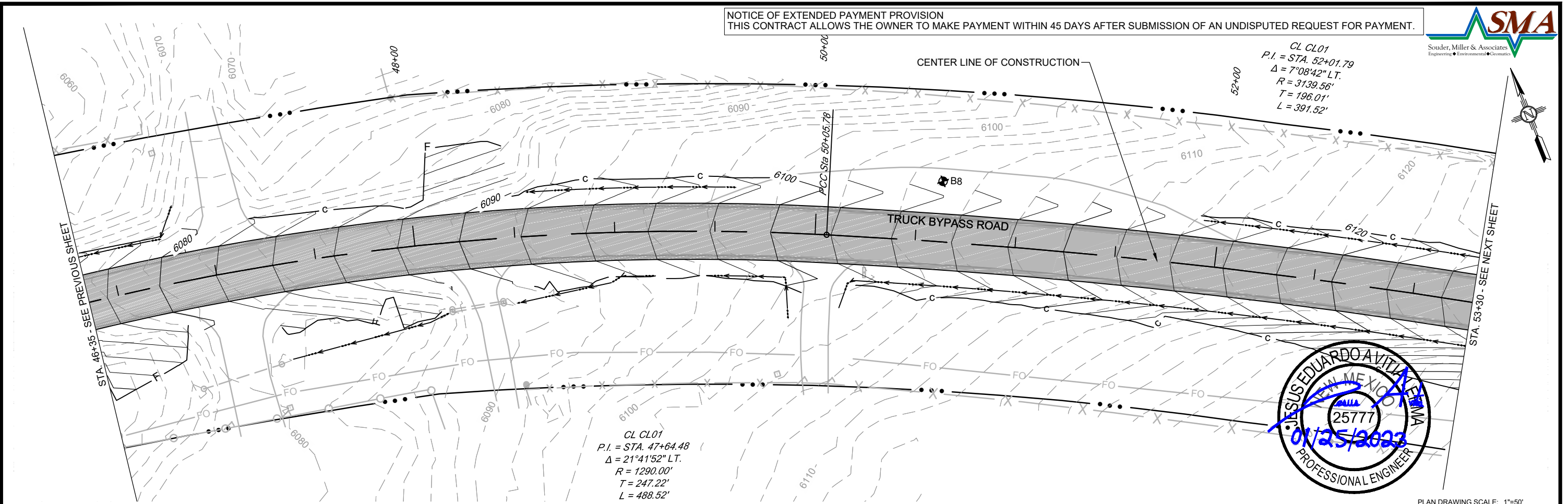


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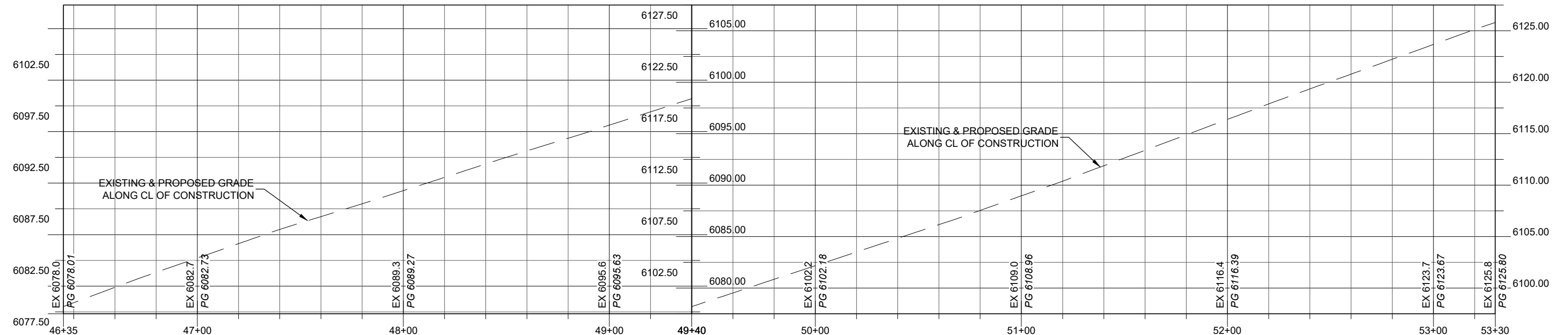


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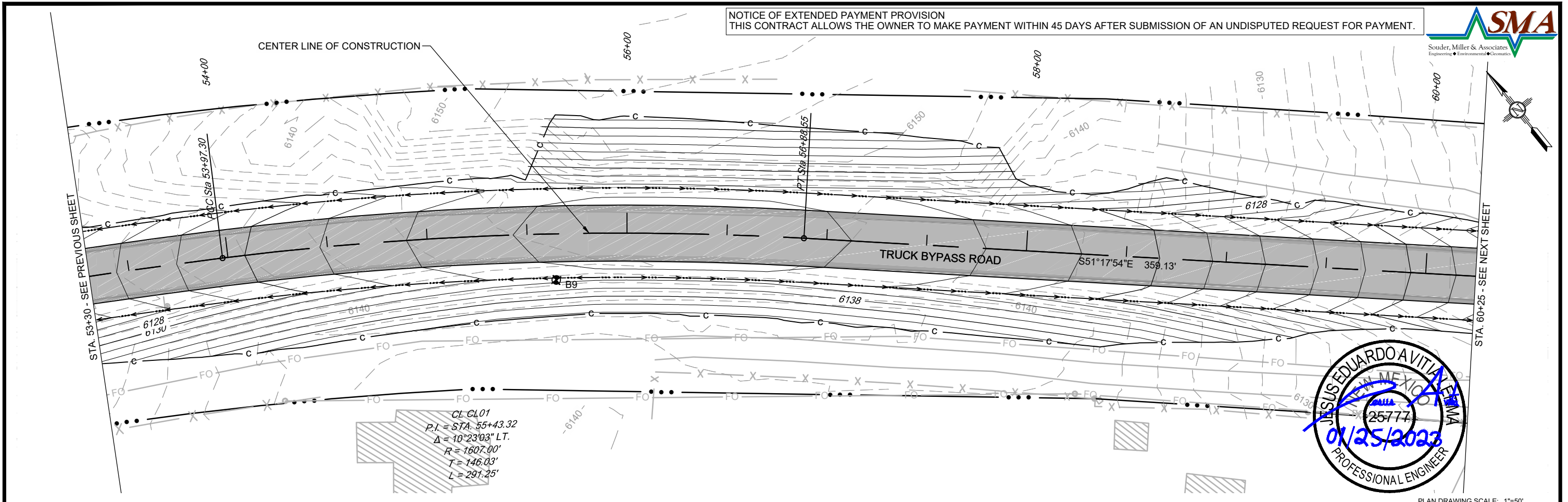


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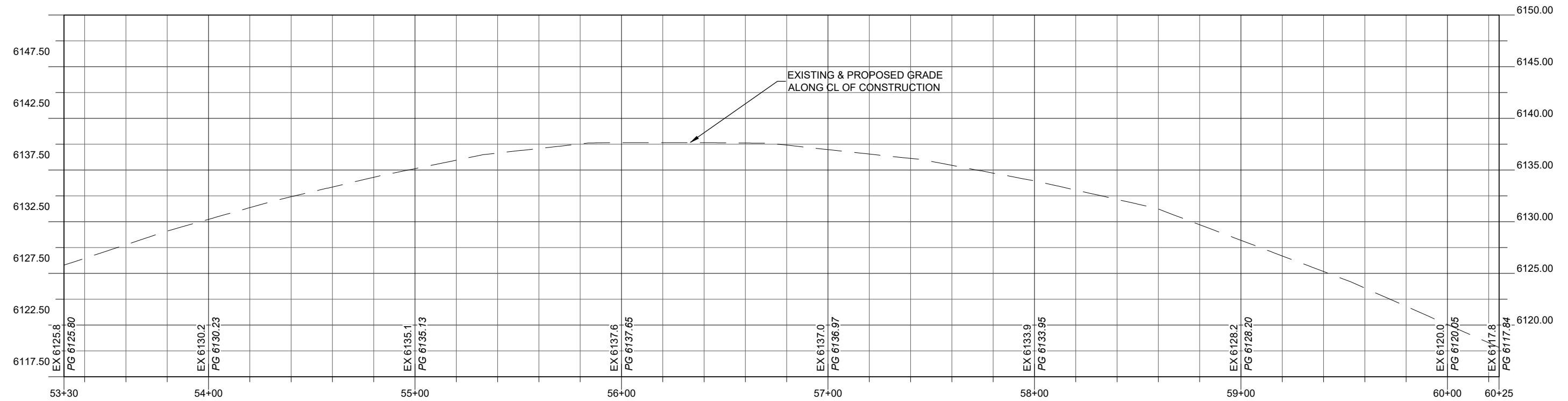


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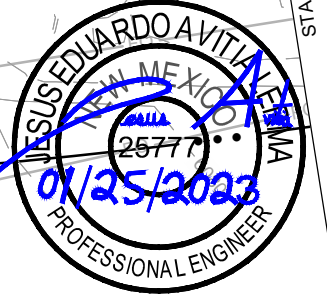
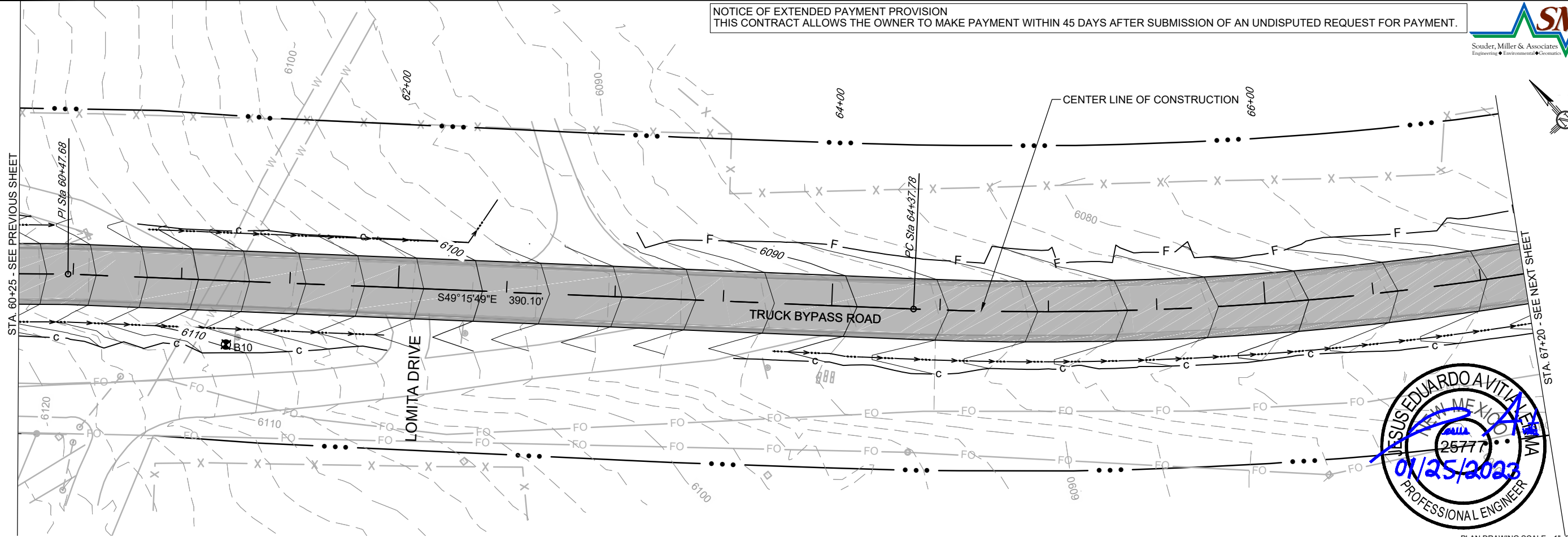
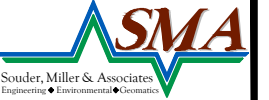


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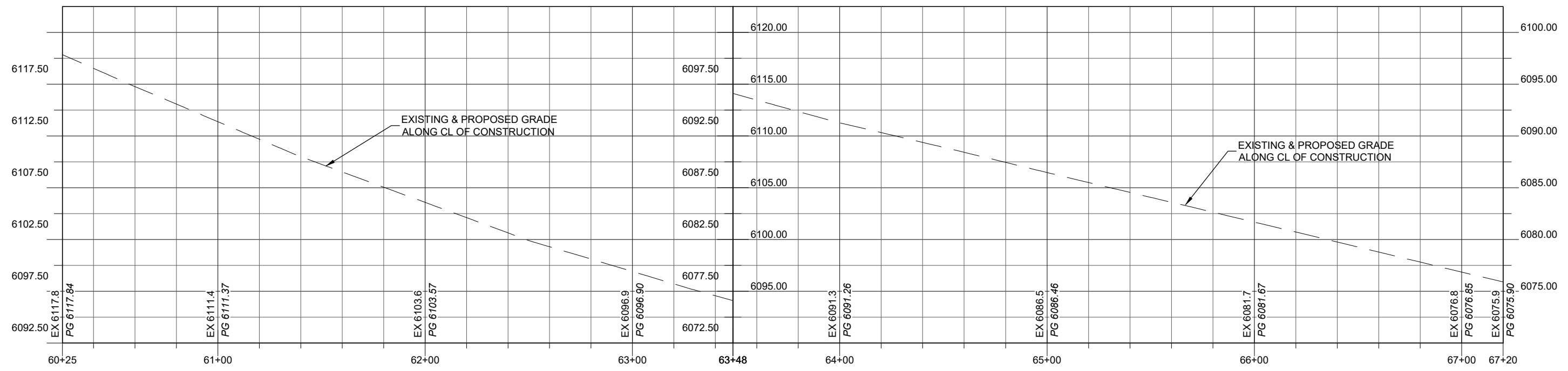


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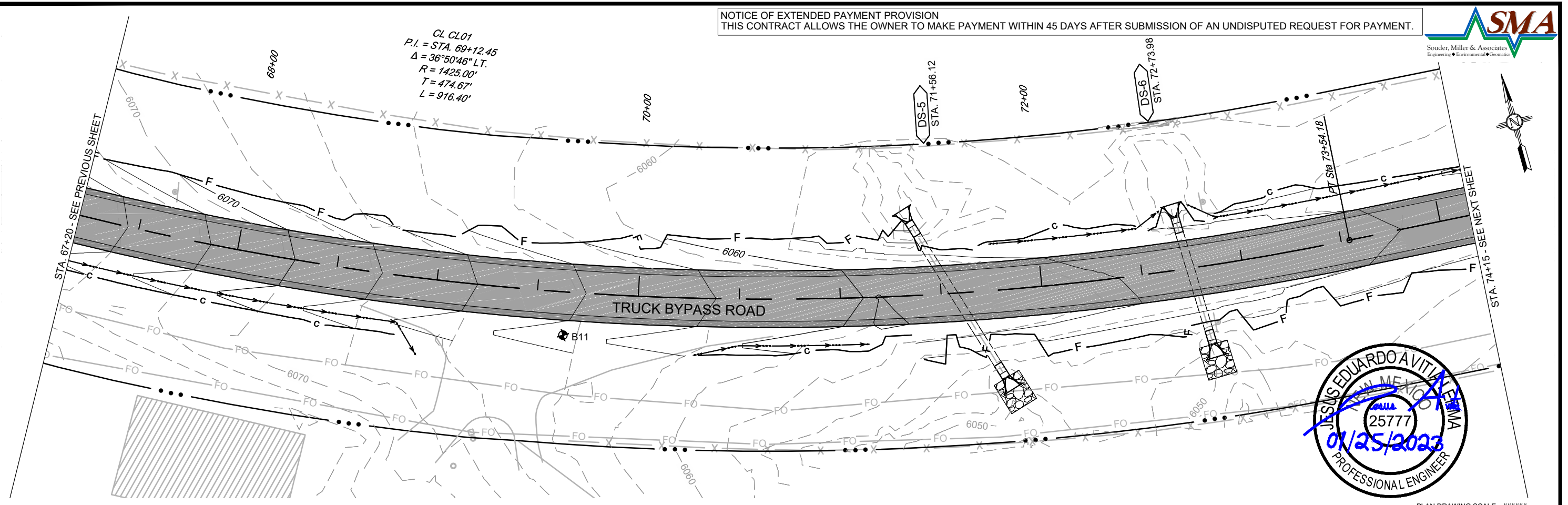


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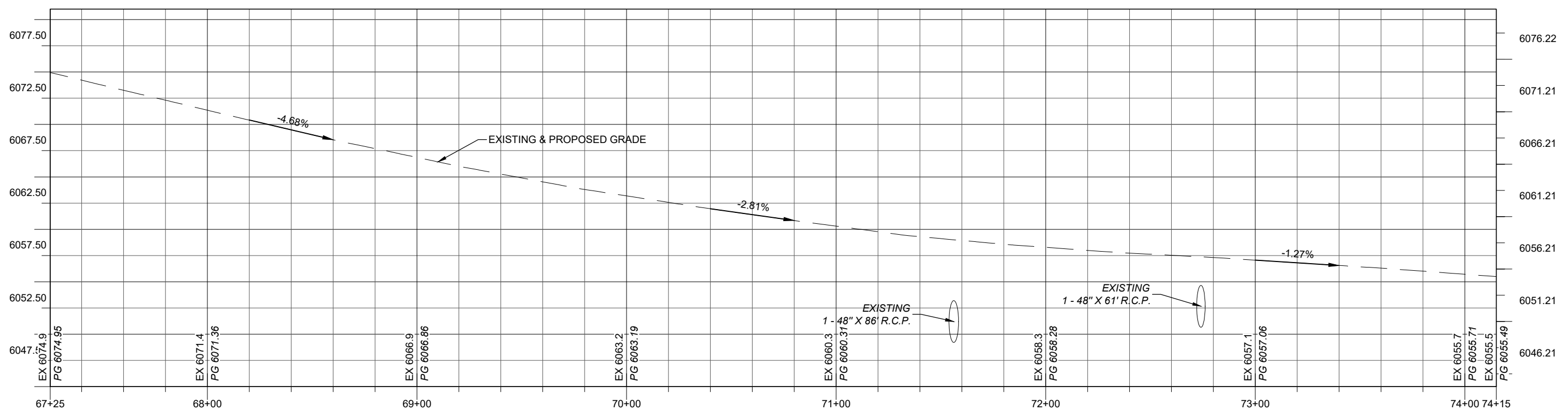


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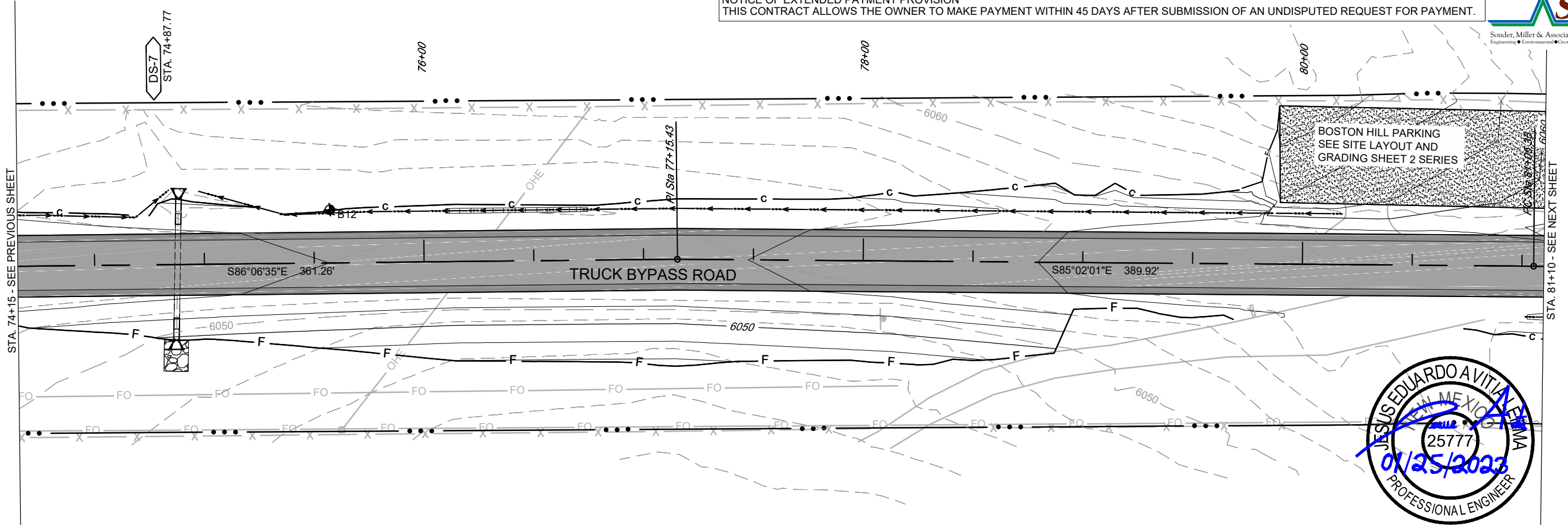


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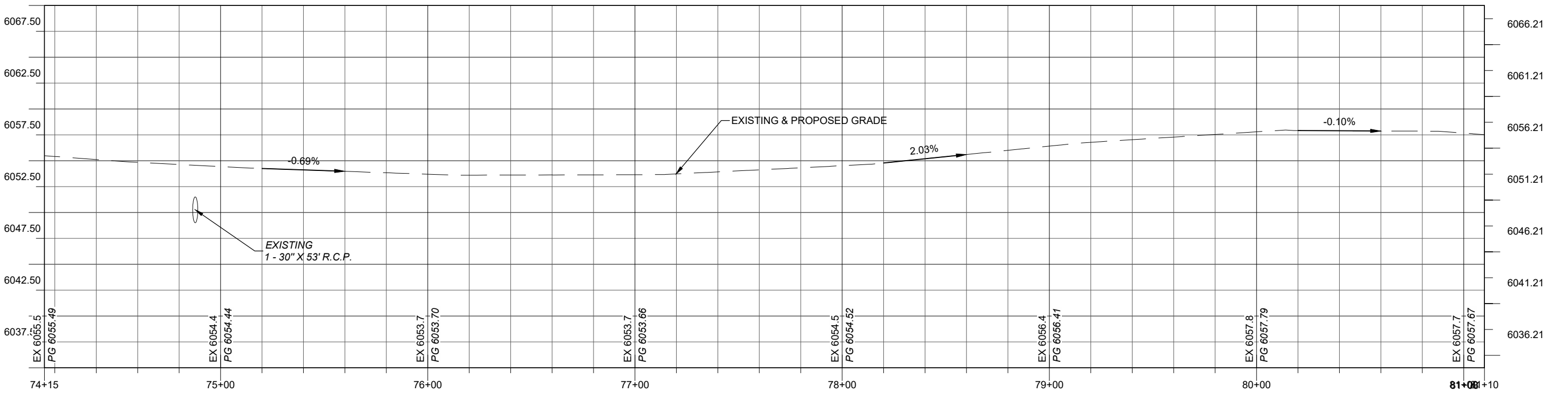


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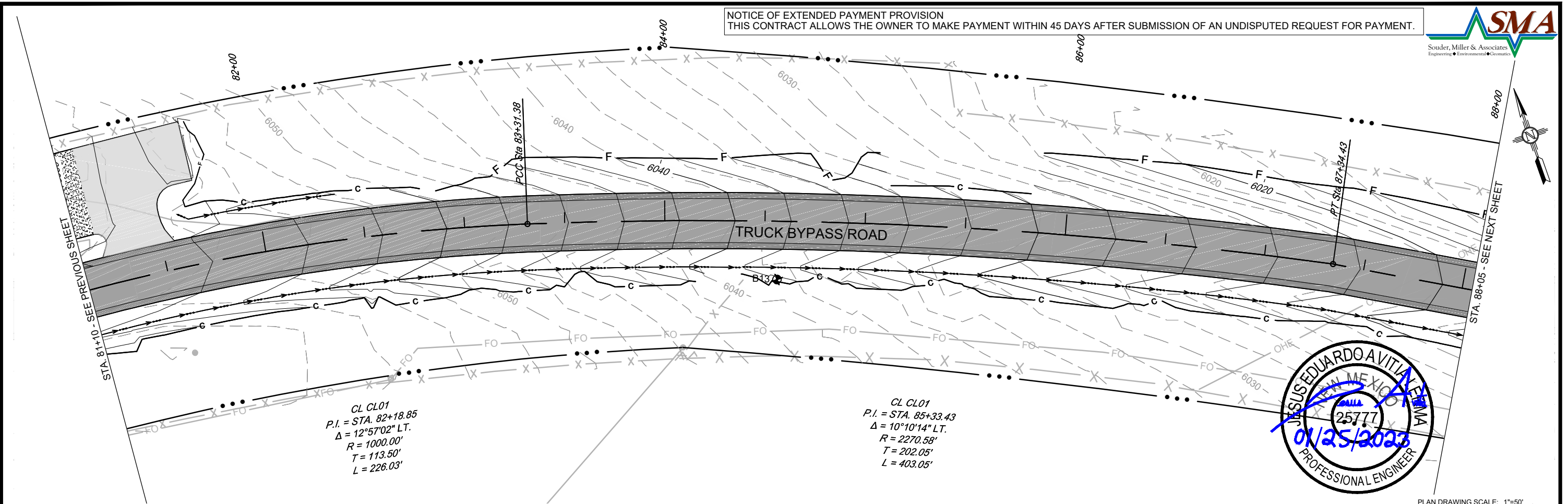


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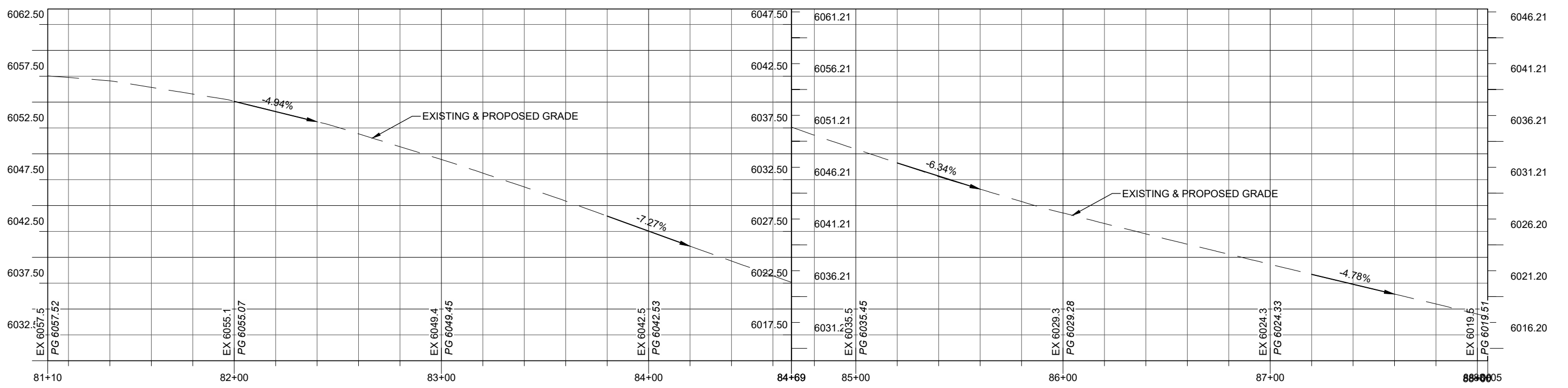


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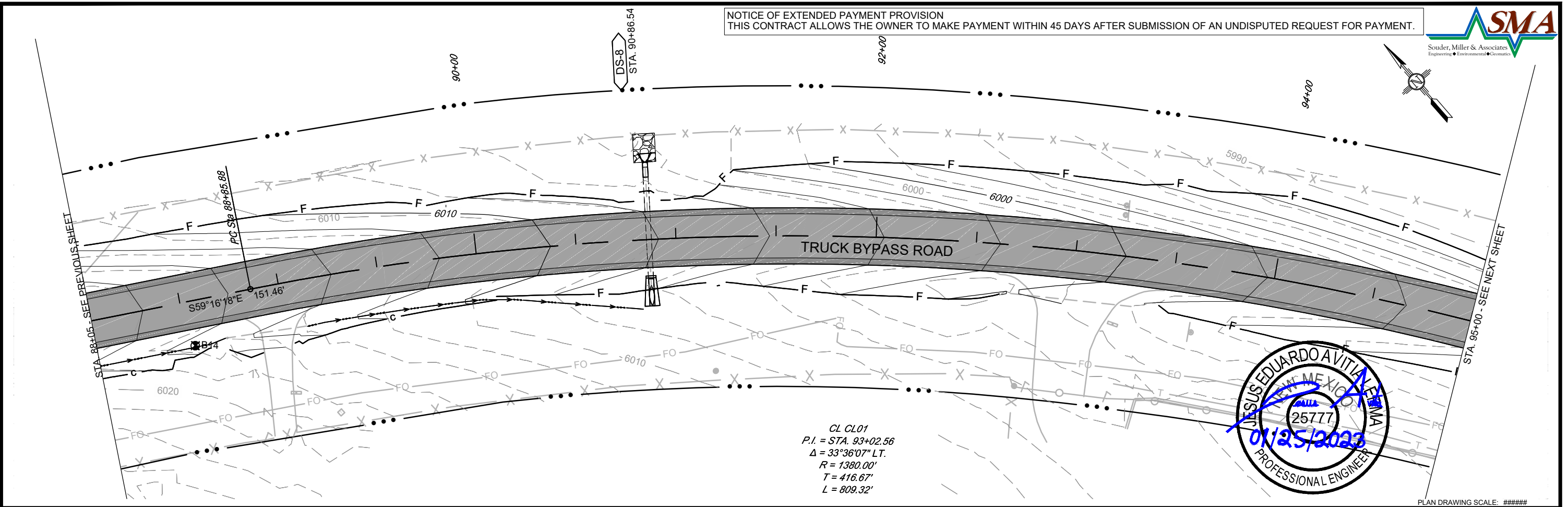
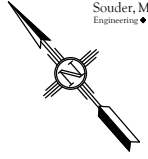


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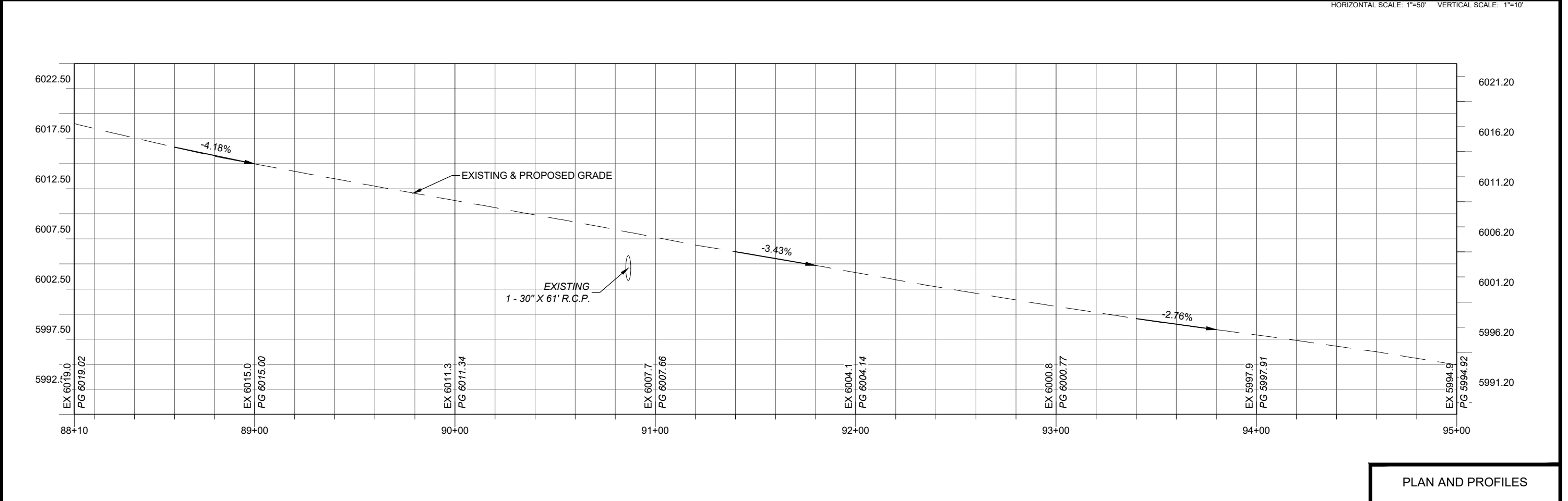


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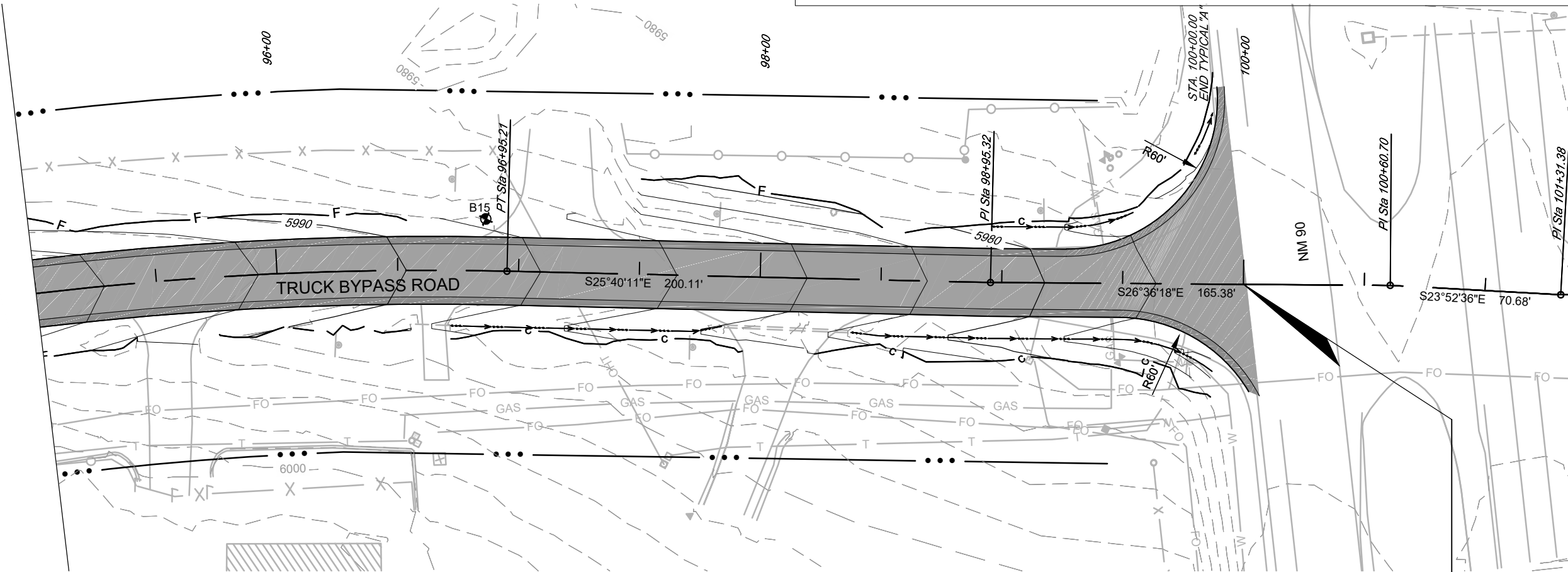
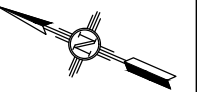


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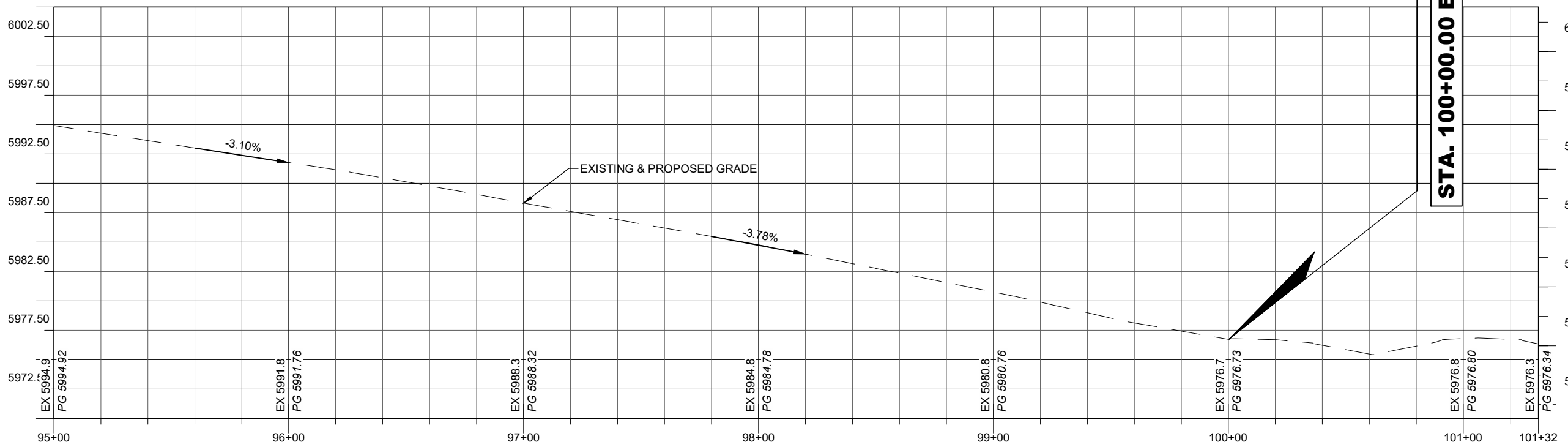
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TRAFFIC CONTROL NOTES

ALL TRAFFIC CONTROL SHALL BE PLACED IN ACCORDANCE WITH THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (2019 EDITION) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION) AND CURRENT REVISIONS WITH THE FOLLOWING CONSTRAINTS:

1. REFERENCE SHALL BE MADE TO THE STANDARD SERIAL 702-01-1/5 AND 702-01-2/5 CONSTRUCTION TRAFFIC NOTES AS SUPPLEMENT TO THE TRAFFIC CONTROL NOTES PROVIDED ON THIS SHEET.
2. ALL TRAFFIC CONTROL DEVICES USED ON THIS PROJECT SHALL BE IN SATISFACTORY WORKING CONDITION IN ORDER TO FUNCTION EQUIVALENT TO NEW EQUIPMENT.
3. NO SUBSTITUTIONS SHALL BE MADE FOR DRUMS IN CHANNELIZATION DEVICES.
4. ALL CONSTRUCTION SIGNING SHALL MEET MINIMUM SIGN SHEETING REQUIREMENTS TYPE 9 OR ABOVE SET FORTH BY THE NMDOT TRAFFIC TECHNICAL SUPPORT BUREAU AND MEET RETRO REFLECTIVITY REQUIREMENTS LISTED IN SECTION 702 OF THE STANDARD SPECIFICATIONS.
5. ALL NON-APPLICABLE SIGNING SHALL BE REMOVED OR COVERED COMPLETELY WITH AN OPAQUE NON-LIGHT TRANSMITTED MATERIAL. ANY ADHESIVE USED TO TEMPORARILY COVER SIGNS SHALL NOT COME IN CONTACT WITH THE SIGN SURFACES IN ORDER TO PREVENT DAMAGE TO THE SIGN COATING. ALL REMAINING, NON-APPLICABLE TRAFFIC CONTROL DEVICES ARE TO BE REMOVED UPON COMPLETION OF THE PROJECT AND STORED AT LOCATION DESIGNATED BY THE PROJECT MANAGER.
6. TWO (2), PORTABLE/CHANGEABLE MESSAGE SIGNS PROVIDED AND MAINTAINED BY THE CONTRACTOR SHALL BE UTILIZED TO CONVEY MESSAGES, EXPECTED DELAYS, AND DETOURS TO MOTORISTS AS REQUIRED. THE LOCATIONS OF THE MESSAGE SIGNS ARE TO BE COORDINATED WITH THE PROJECT MANAGER. THE CONTRACTOR SHALL RETAIN OWNERSHIP OF THE CONTRACTOR FURNISHED PORTABLE CHANGEABLE MESSAGE SIGNS AT THE CONCLUSION OF THE PROJECT.

SUGGESTED SEQUENCE OF CONSTRUCTION

THE TRAFFIC CONTROL PLAN REPRESENTS A SUGGESTED METHOD FOR TRAFFIC CONTROL DURING CONSTRUCTION. ADJUSTMENTS TO THE DETAILS OF THESE TRAFFIC CONTROL PLANS AND REQUIREMENTS MAY BE NECESSARY DUE TO CONSTRUCTION ACTIVITIES, AS DIRECTED BY THE PROJECT MANAGER. ANY ADDITIONAL TRAFFIC CONTROL PROPOSED BY NMDOT WILL BE PAID FOR USING THE BID UNIT PRICES. IF THE CONTRACTOR ELECTS TO DEVIATE FROM THE TRAFFIC CONTROL PLANS, THEN THE CONTRACTOR SHALL DEVELOP A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATION. THE PLAN MUST BE SIGNED AND SEALED BY A NM PROFESSIONAL ENGINEER. NO MEASUREMENT OR DIRECT PAYMENT WILL BE MADE FOR DEVELOPING THE PLAN, EXTRA COSTS ASSOCIATED WITH THE PLAN, OR ADDITIONAL DEVICES ASSOCIATED WITH THE PLAN, THE COST BEING CONSIDERED AS INCLUDED IN THE PRICE OF THE CONTRACT ITEMS. THE CONTRACTOR SHALL SUBMIT ANY PROPOSED CHANGES IN THE TRAFFIC CONTROL PLAN TWO WEEKS PRIOR TO THE PRECONSTRUCTION CONFERENCE. CONSTRUCTION SHALL NOT BEGIN UNLESS THE TRAFFIC CONTROL PLAN HAS BEEN APPROVED BY THE DISTRICT TRAFFIC ENGINEER.

PHASE 1

ADVANCE WARNING SIGNING

SHEETS 6-03

- INSTALL BOP/EOP SIGNAGE WITH PROPER WARNING SIGNS FOR ONE LANE CLOSURE AND PCMS TO DISPLAY LAYOUT 1.

PHASE 2

ROADWAY RECONSTRUCTION AND SHOULDER EXTENSION

SHEETS 6-04

- ONE LANE CLOSURES WOULD BE USED TO ALLOW THRU TRAFFIC.
- FLAGGERS WILL BE NEEDED TO COORDINATE AND DIRECT THRU TRAFFIC.

PHASE 3

PAVING OF INTERSECTING ROADWAY RADII

SHEET 6-05

- COMPLETE ROAD PAVING AT RADIUS AT INTERSECTION OF NM 90 AND US 180 UTILIZING SHOULDER CLOSURE.

PHASE 4

FULL CLOSURE FOR CULVERT REPLACEMENT

SHEET 6-03 AND 6-06

- CHANGE ALL CONSTRUCTION SIGNAGE FROM A ONE LANE CLOSURE TO FULL CLOSURE AND PCMS TO DISPLAY LAYOUT 2.
- INSTALL BARRICADES TO KEEP TRAFFIC AWAY FROM CONSTRUCTION PERIMETER FOR THE CULVERT REPLACEMENT.
- COMPLETE DEMOLITION OF EXISTING ROAD AND FAILING CULVERT.
- COMPLETE INSTALLATION ON NEW CULVERT STRUCTURE.
- BACKFILL AND COMPACT ACCORDINGLY.
- COMPLETE ROAD PAVING.

PHASE 5

CONSTRUCTION SIGNING REMOVAL AND STRIPING

- REMOVE ALL CONSTRUCTION SIGNAGE, STRIPE FOR PERMANENT CONDITIONS.



4			
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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)



GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
TEMPORARY TRAFFIC CONTROL NOTES &
SEQUENCE OF CONSTRUCTION

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



CONSTRUCTION TRAFFIC MANAGEMENT SUMMARY OF QUANTITIES			
ITEM NO.	ITEM	UNIT	QUANTITY
618000	TRAFFIC CONTROL MANAGEMENT	L.S.	1
702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION	L.S.	1
*	CONSTRUCTION SIGNING	SQ.FT.	410
*	STEEL POSTS AND BASE POSTS FOR CONSTRUCTION SIGNING	LIN.FT.	810
*	PORTABLE SIGN SUPPORT	EACH	30
*	BARRICADE, TYPE III-8'	EACH	5
*	CHANNELIZATION DEVICES TYPE DRUM	EACH	98
* 702610	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	4

CONSTRUCTION SIGNING	CONSTRUCTION PHASING		**	MOUNTING REQUIREMENTS						**	**	**	**	**
	SIGN SIZE	NO. OF SIGNS	CONSTRUCTION SIGNING	POST LENGTHS				BASE POST		STEEL POSTS AND BASE POSTS FOR CONSTRUCTION SIGNING	PORTABLE SIGN SUPPORT	BARRICADE, TYPE III-8'	CHANNELIZATION DEVICES TYPE DRUM	PORTABLE CHANGEABLE MESSAGE SIGN
				AREA	LEFT	CENTER	RIGHT	TOTAL	No.					
SIGN CODE	SQ. FT.	EA.	SQ.FT.	LIN. FT	LIN. FT.	LIN. FT.	LIN. FT.			EACH	EACH	EACH	EACH	EACH
G20-2-48	8.00	4	32.00	10		10	80	8	28	108				
G20-2-36	4.50	2	9.00	10		10	40	4	14	54				
*R11-2-48	10.00	4	40.00									4		
*R11-3-48	10.00	1	10.00									1		
*W1-6L-48	8.00	1	8.00											
W3-4-36	9.00	2	18.00	10		10	40	4	14	54				
W20-1-36	9.00	4	36.00	10		10	80	8	28	108				
W20-1-48-1	16.00	4	64.00	10		10	80	8	28	108				
W20-3a-36	9.00	2	18.00	10		10	40	4	14	54				
W20-4-36-AHEAD	9.00	2	18.00	10		10	40	4	14	54				
W20-7-36	9.00	2	18.00	10		10	40	4	14	54				
W21-5-48-1/2	16.00	4	64.00	10		10	80	8	28	108				
W21-5-48-1000	16.00	4	64.00	10		10	80	8	28	108				
PORTABLE SIGN SUPPORT		30									30			
**DRUMS		98										98		
PORTABLE CHANGEABLE MESSAGE SIGN		4												4
UNIT 1 TOTAL			395.01							801.90	29.70	4.95	97.02	2
(99% OF TOTAL QTY) USE			400.00							802	30	5	97	
UNIT 2 TOTAL			3.99							8.10	0.30	0.05	0.98	2
(1% OF TOTAL QTY) USE			10.00							8	0	0	1	
PROJECT TOTAL			399							810	30	5	98	4
PROJECT USE			410							810	30	5	98	4

* SIGN MOUNTED ON BARRICADE
** FOR CONTRACTOR INFORMATION ONLY.
NOTE: QUANTITIES REFLECT MAXIMUM AMOUNT PER PHASE. DRUMS QUANTITY IS BASED OFF OF 500' WORK ZONE LENGTH SPAN. WORK ZONE LENGTH MAY VARY. ADJUST ACCORDINGLY.

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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)

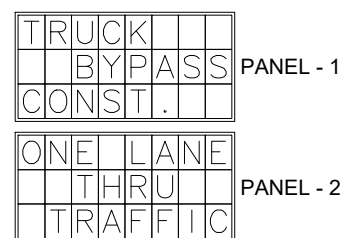
GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
ESTIMATED CONSTRUCTION
MANAGEMENT QUANTITIES



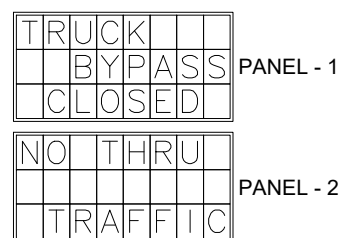
NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



PCMS LAYOUT 1 ALL-HOURS




PCMS LAYOUT 2 ALL-HOURS



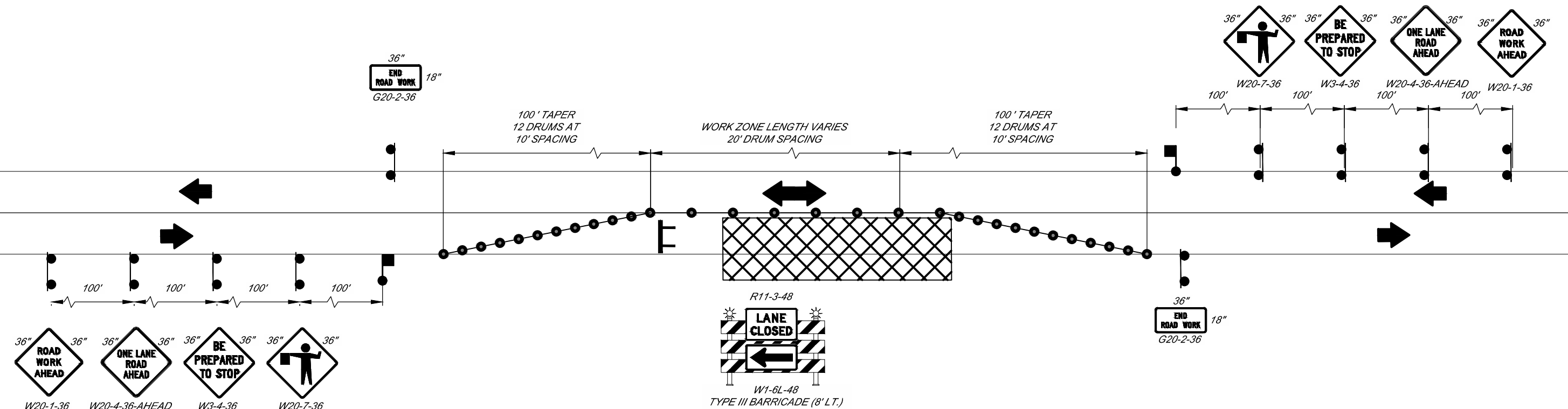
NOTES:
1. CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO ALL BUSINESSES AND PRIVATE PROPERTIES AT ALL TIMES DURING CONSTRUCTION.



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NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			


GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
PCMS LAYOUT MAP

NOTICE OF EXTENDED PAYMENT PROVISION
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ONE-LANE, TWO-WAY TRAFFIC CONTROL
WORKING HOURS

NOTES


1. BUFFER SPACE SHALL BE ADDED AND ADJUSTED TO INCREASE VISIBILITY OF FLAGGER STATIONS.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS AND STREETS AT ALL TIMES.
3. ALL SIGNS TO BE MOUNTED ON TEMPORARY SIGN SUPPORTS.

LEGEND:

- CONSTRUCTION WORK ZONE
- TTC - DEVICE TYPE III BARRICADE
- TTC PANEL SIGN
- FLAGGER STATION
- TTC DEVICE - DRUM
- TRAFFIC FLOW DIRECTION



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1			
NO.	DESCRIPTION	DATE	BY

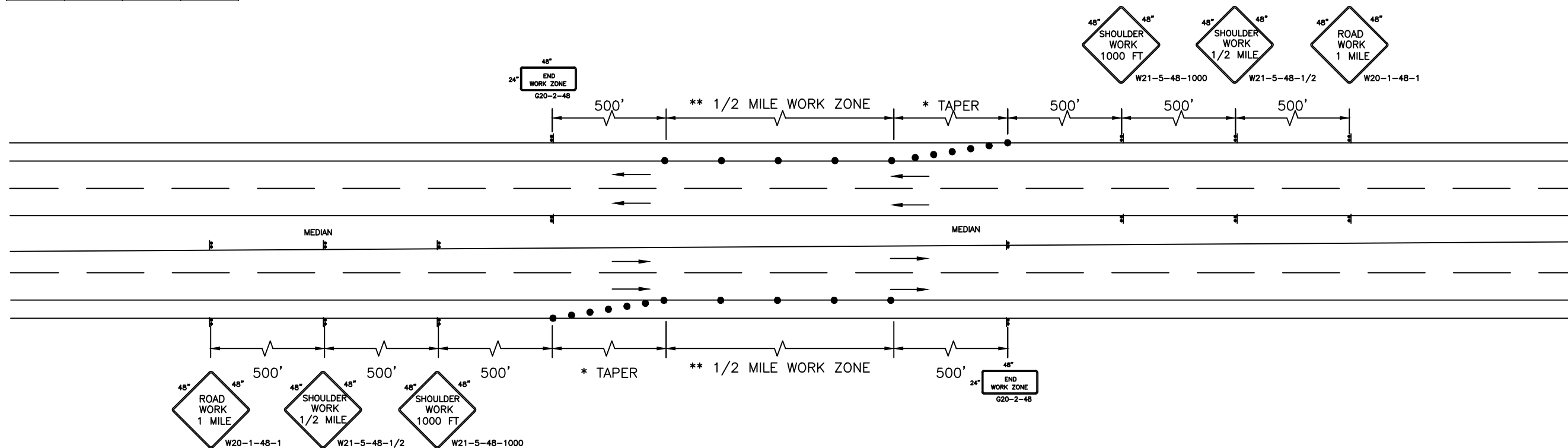

GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
ONE LANE CLOSURE

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



NM90			
SPEED	LENGTH	SPACING	DRUMS
45 MPH	FT.	FT.	EA.
*	200	60	4
**	2640	60	45


US180			
SPEED	LENGTH	SPACING	DRUMS
60 MPH	FT.	FT.	EA.
*	50	20	4
**	2640	60	45



TYPICAL DRUM/SIGN PLACEMENT (OUTSIDE SHOULDER CLOSURE)



NO.	DESCRIPTION	DATE	BY
4			
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GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
SHOULDER CLOSURE

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.




LEGEND

	TTC PANEL SIGN
	TTC- DEVICE TYPE III BARRICADE
	EARTH BERM
	CONSTRUCTION WORK ZONE



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NO.	DESCRIPTION	DATE	BY
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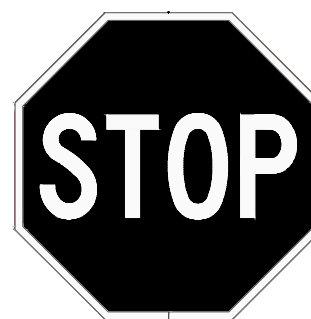
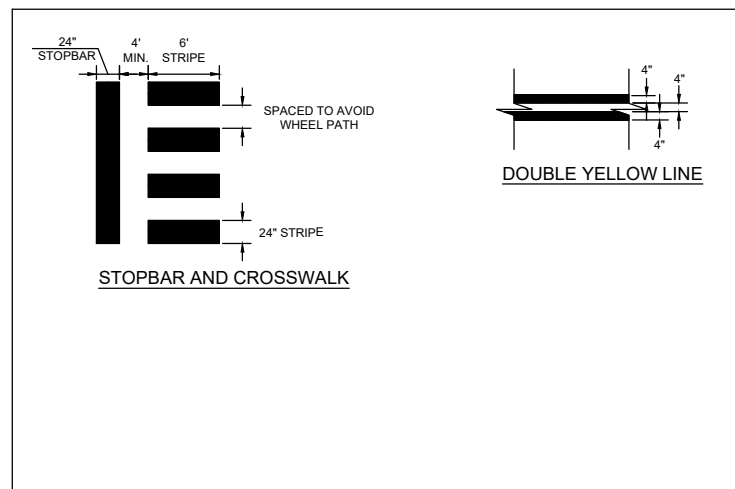

GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
CULVERT REPLACEMENT MAP



NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

SIGN FACE DETAILS

FOR PERMANENT SIGNING
COLORS VARY



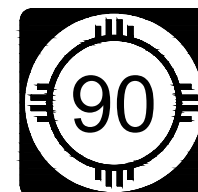
R1-1-36
36" X 36"
W/R



R2-1-35
24" X 30"
B/W



R4-1-24
24" X 30"
B/W



M1-5-24
24" X 24"
R/B/W



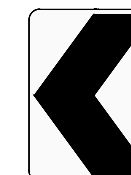
M2-1-21
21" X 15"
B/W



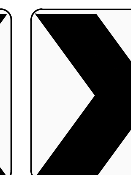
M1-4-30
30" X 24"
B/W



R16-NM-25
24" X 30"
B/W



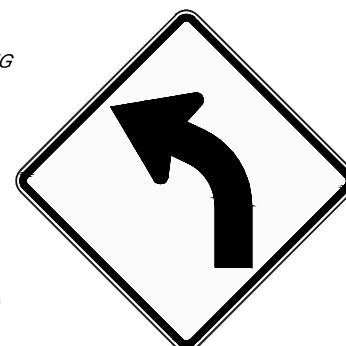
W1-8L-18
18" X 24"
B/FY



W1-8R-18
18" X 24"
B/FY

PERMANENT SIGNING & STRIPING NOTES

- ALL REGULATORY, WARNING, SPECIAL, AND GUIDE SIGNS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
- ONLY 0.125 INCHES THICK ALUMINUM PANEL SIGNS ARE PERMITTED FOR WARNING AND REGULATORY SIGNS.
- QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE. THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED.
- ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH N.M. STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (2019 EDITION) AND ANY APPLICABLE SPECIAL PROVISION AND/OR SUPPLEMENTAL SPECIFICATION. ALSO THE DEVICES SHALL COMPLY WITH CURRENT EDITION, WITH REVISIONS, OF THE MUTCD.
- EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (2014 EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, SYMBOLS AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.
- POST LENGTHS ARE BASED ON A MINIMUM OF 5 FT FOR RURAL ROADWAY SECTIONS TO A MINIMUM OF 7 FT FOR URBAN AND INTERSTATE ROADWAY SECTIONS. THE LENGTHS ARE MEASURED FROM THE BOTTOM OF THE SIGN TO NEAR EDGE OF THE DRIVING LANE.
- THE LATERAL CLEARANCE OF SIGNS SHALL BE NO CLOSER THAN 6 FT FROM THE EDGE OF SHOULDER OR 12 FT FROM THE EDGE OF TRAVELED WAY FOR RURAL AREAS AND NO CLOSER THAN 2 FT FROM FACE OF CURB FOR URBAN AREAS.
- THREE 4 LB/FT SIGN POST INSTALLATION APPROVED ONLY IF THE SPAN BETWEEN THE OUTER POSTS EXCEEDS 84" (SIGN WIDTH OF 96" OR GREATER).
- SIGN POSTS SHALL BE SQUARE TUBING OR AS APPROVED BY THE PROJECT MANAGER OR THE DISTRICT TRAFFIC ENGINEER.
- CONTRACTOR SHALL FIELD VERIFY ALL SIGNING INFORMATION, TEXT, AND LOCATIONS PRIOR TO FABRICATION AND INSTALLATION. NEW SIGN LOCATIONS SHALL BE APPROVED BY THE PROJECT MANAGER.
- REMOVAL OF STRIPING SHALL BE INCIDENTAL TO ITEM NO. 704000 PERMANENT STRIPING AND NO SEPARATE PAYMENT WILL BE MADE.



W1-2L-30
30" X 30"
B/FY



D10-1-0
10" X 18"
W/G



D10-1-1
10" X 18"
W/G



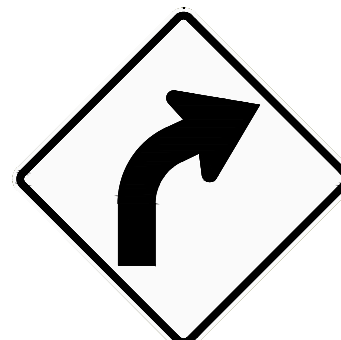
M6-4-21
21" X 15"
B/W



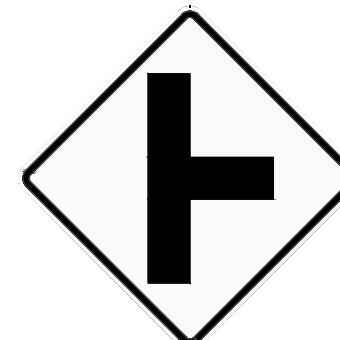
W13-1P-18
18" X 18"
B/FY



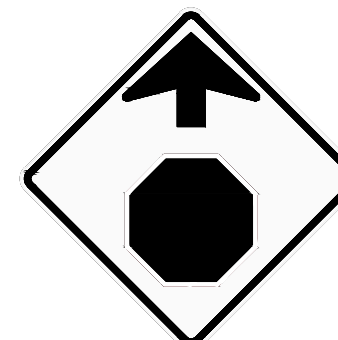
W14-3-48
48" X 36"
B/FY



W1-2R-30
30" X 30"
B/FY



W2-2R-30
30" X 30"
B/FY



W3-1-30
30" X 30"
B-R/W-FY



SS-1-30
30" X 30"
B/FY



OM2-1V-6
6" X 12"
Y/W



OM3-L-12
12" X 36"
B/Y



OM3-R-12
12" X 36"
B/Y

SIGNING AND STRIPING KEY

- (A) - 4" SOLID WHITE RETROREFLECTORIZED PAINTED MARKINGS
- (B) - 4" SOLID YELLOW RETROREFLECTORIZED PAINTED MARKINGS FOR DOUBLE YELLOW STRIPE
- (C) - 24" SOLID WHITE STOP BAR (RETROREFLECTORIZED PAINTED PAVEMENT STRIPE)
- d - PROPOSED SIGN

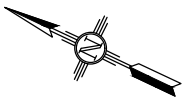


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NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)



GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
SIGN FACE DETAILS AND NOTES



NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



US 180

R1-1-36

R60'

2+00

DS-1
STA. 2+74.52

3+00

OM2-1V-6

4+00

CENTER LINE OF CONSTRUCTION

TRUCK BYPASS ROAD

STA. 4+65 - MATCHLINE

SIGNING AND STRIPING KEY

- (A) 4" SOLID WHITE RETROREFLECTORIZED PAINTED MARKINGS
- (B) 4" SOLID YELLOW RETROREFLECTORIZED PAINTED MARKINGS FOR DOUBLE YELLOW STRIPE
- (C) 24" SOLID WHITE STOP BAR (RETROREFLECTORIZED PAINTED PAVEMENT STRIPE)
- PROPOSED SIGN

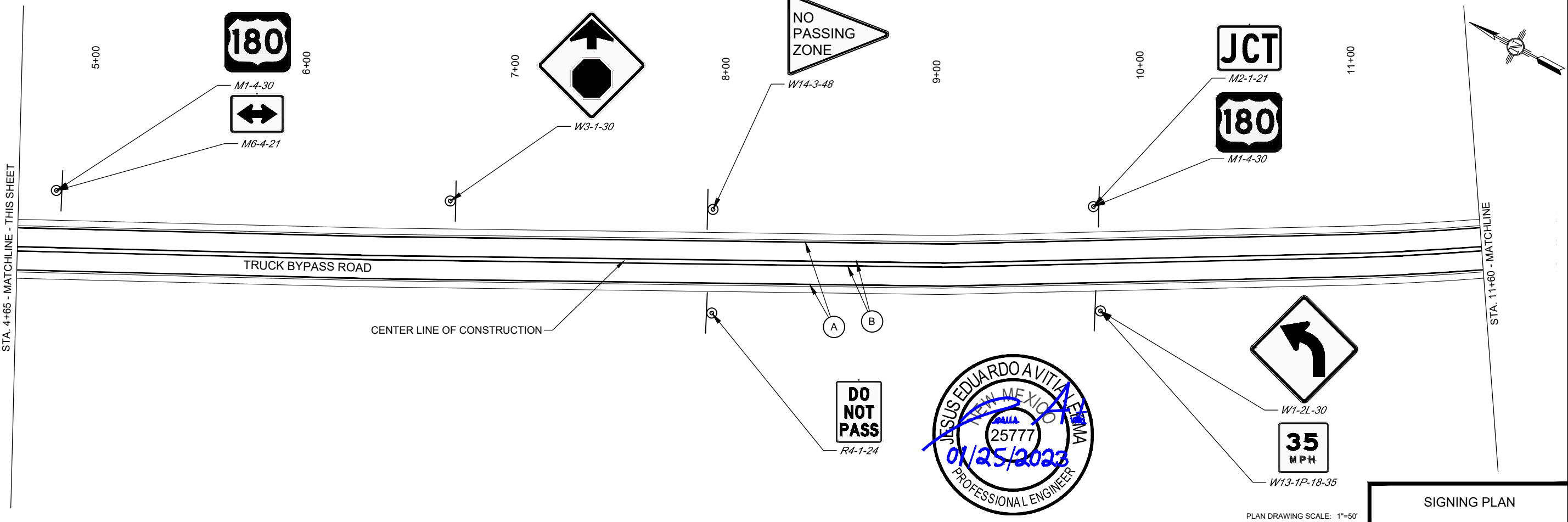


D10-1-0



R2-1-35

PLAN DRAWING SCALE: 1"=50'



STA. 4+65 - MATCHLINE - THIS SHEET

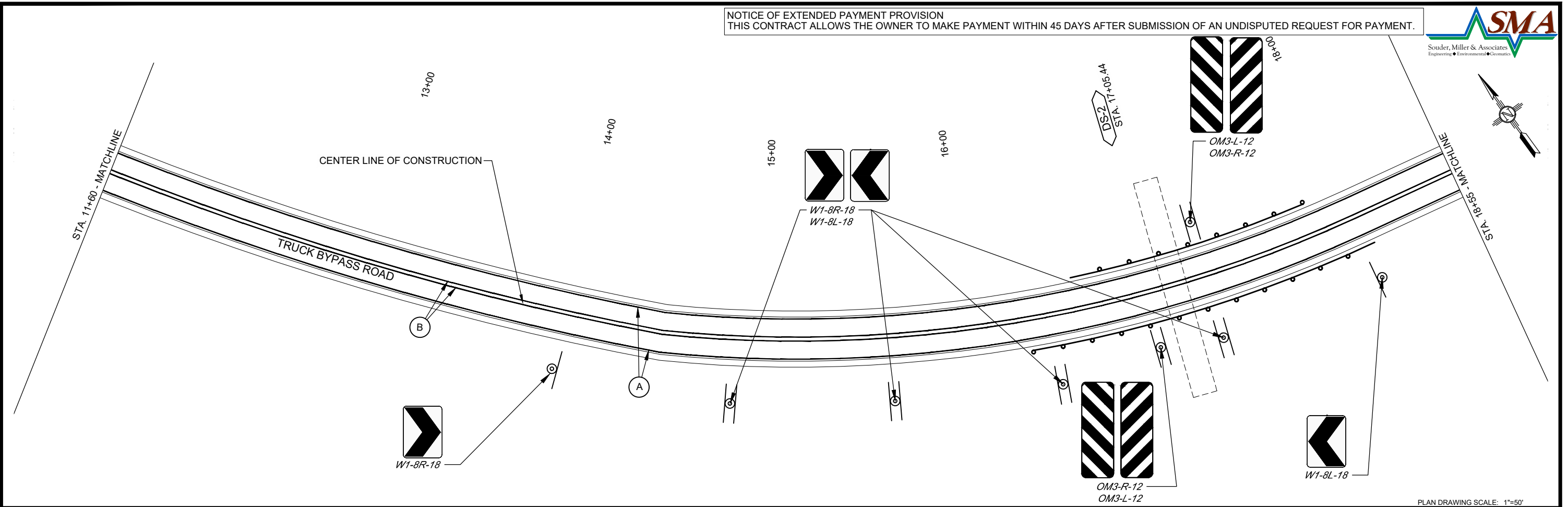
STA. 11+60 - MATCHLINE



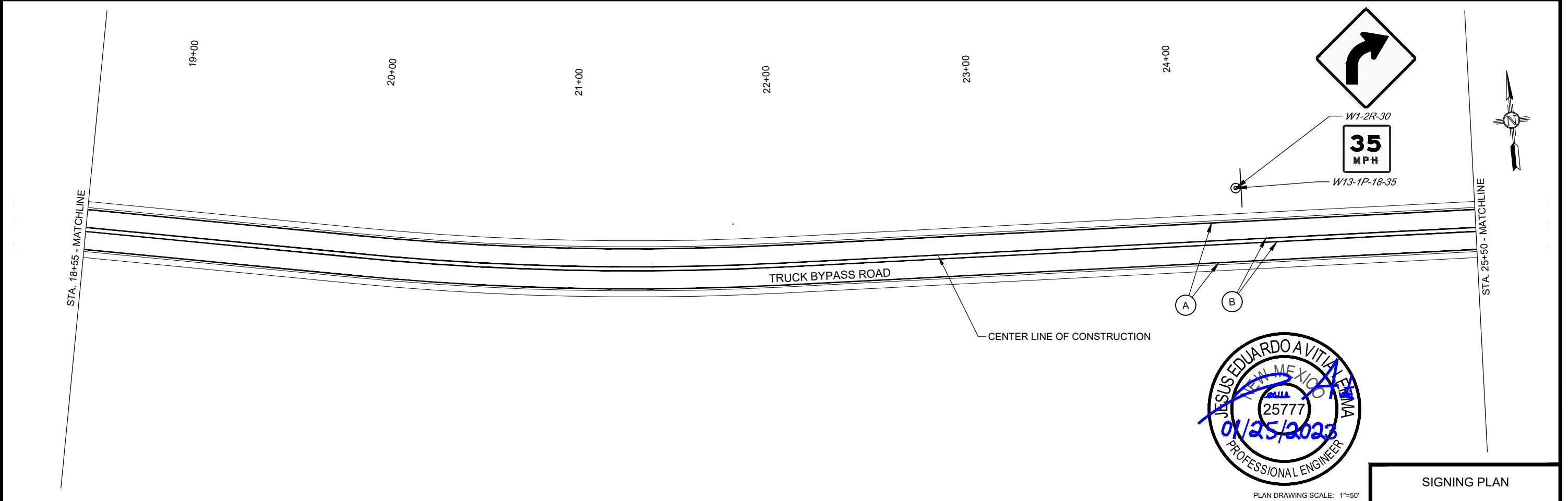
SIGNING PLAN

PLAN DRAWING SCALE: 1"=50'

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



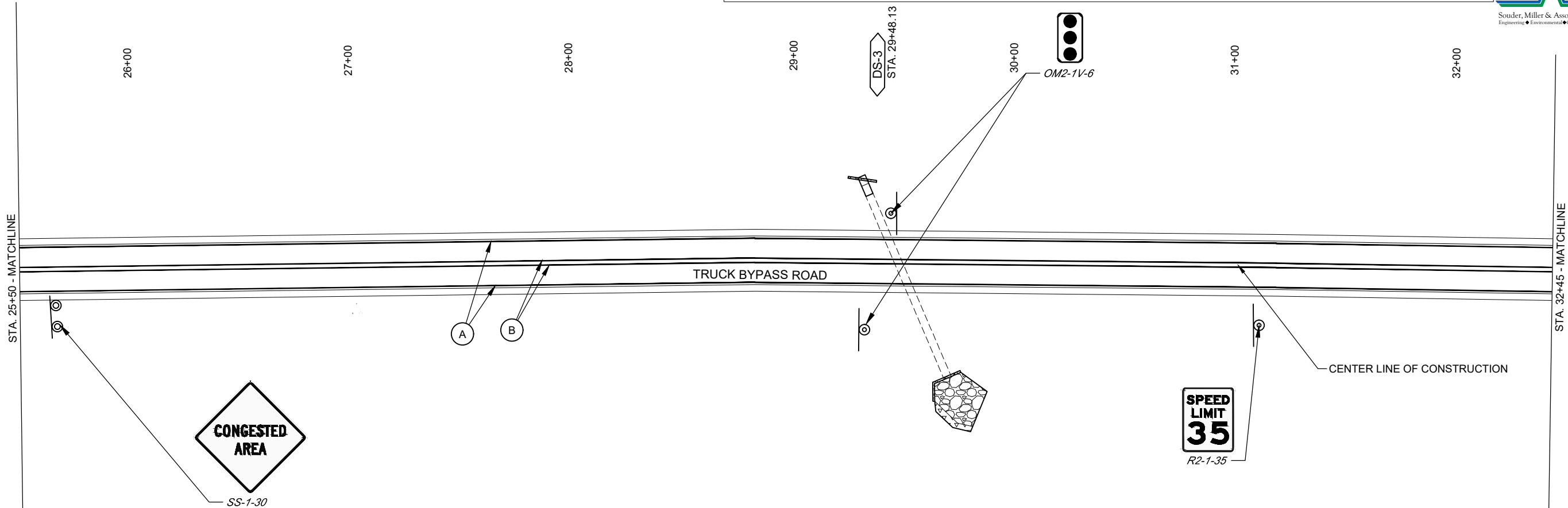
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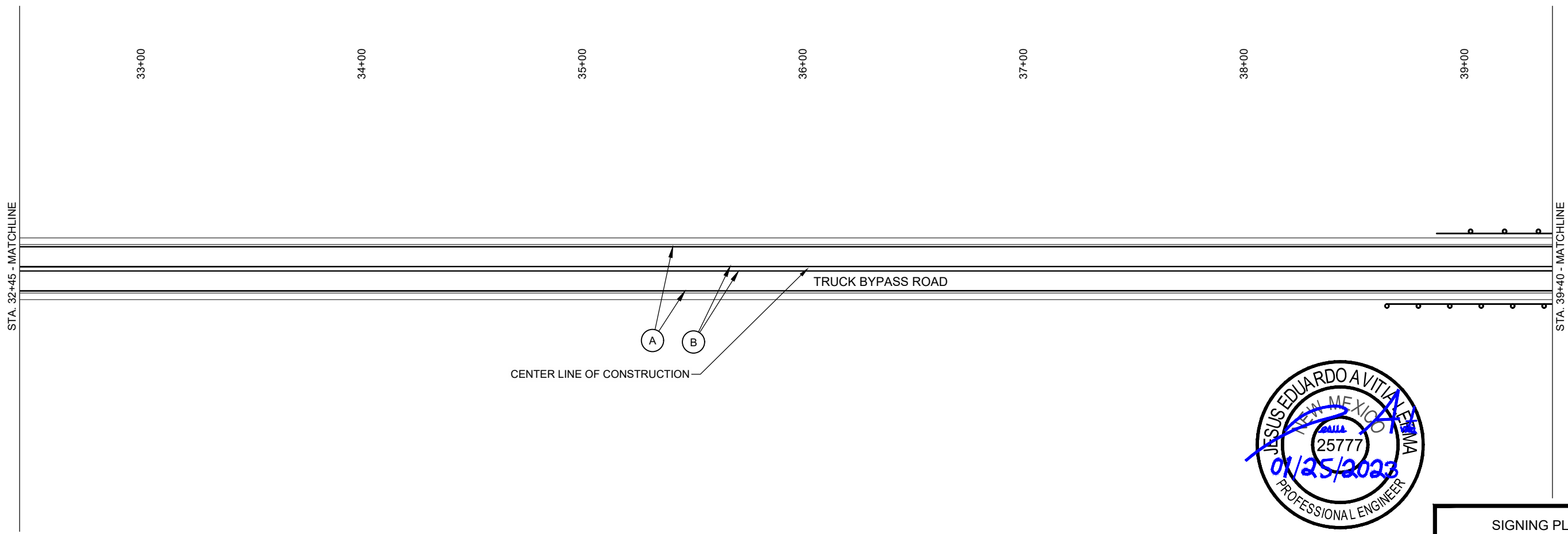
SIGNING PLAN

PLAN DRAWING SCALE: 1"=50'

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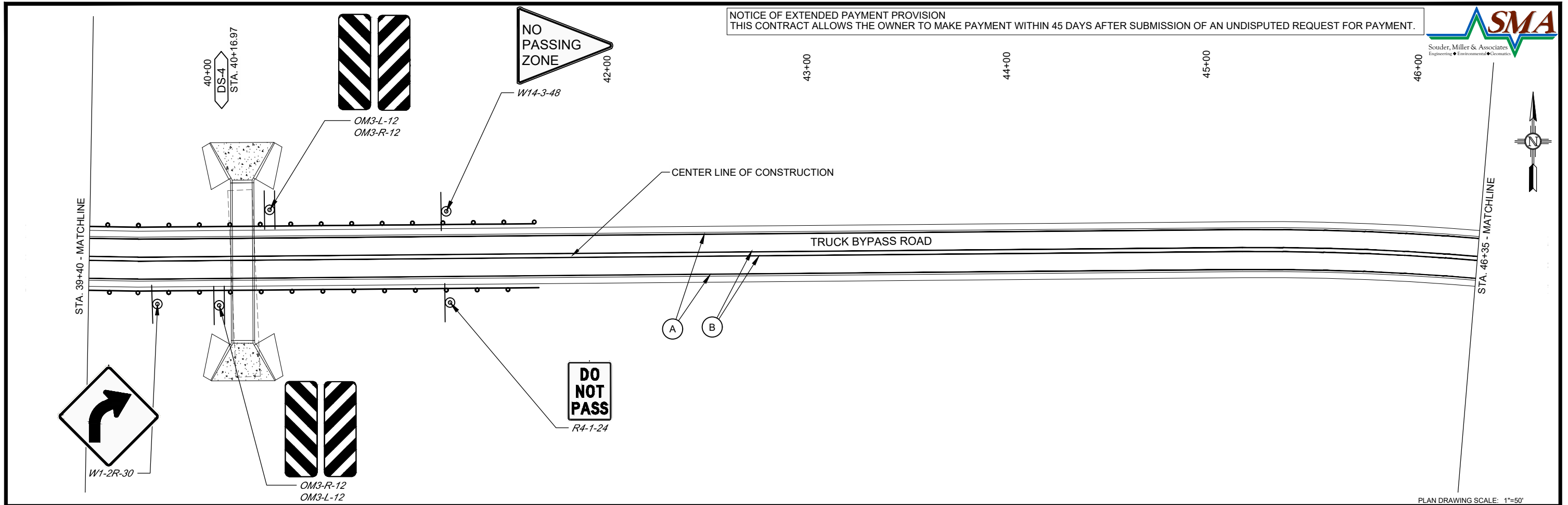
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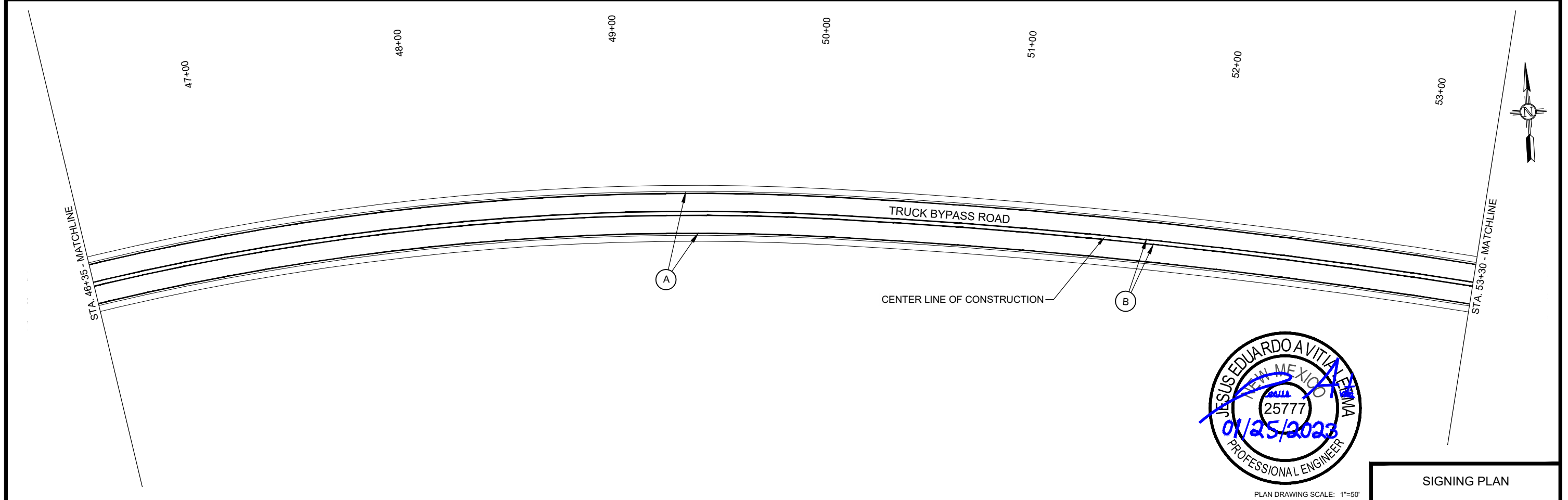
SIGNING PLAN

PLAN DRAWING SCALE: 1"=50'

NOTICE OF EXTENDED PAYMENT PROVISION
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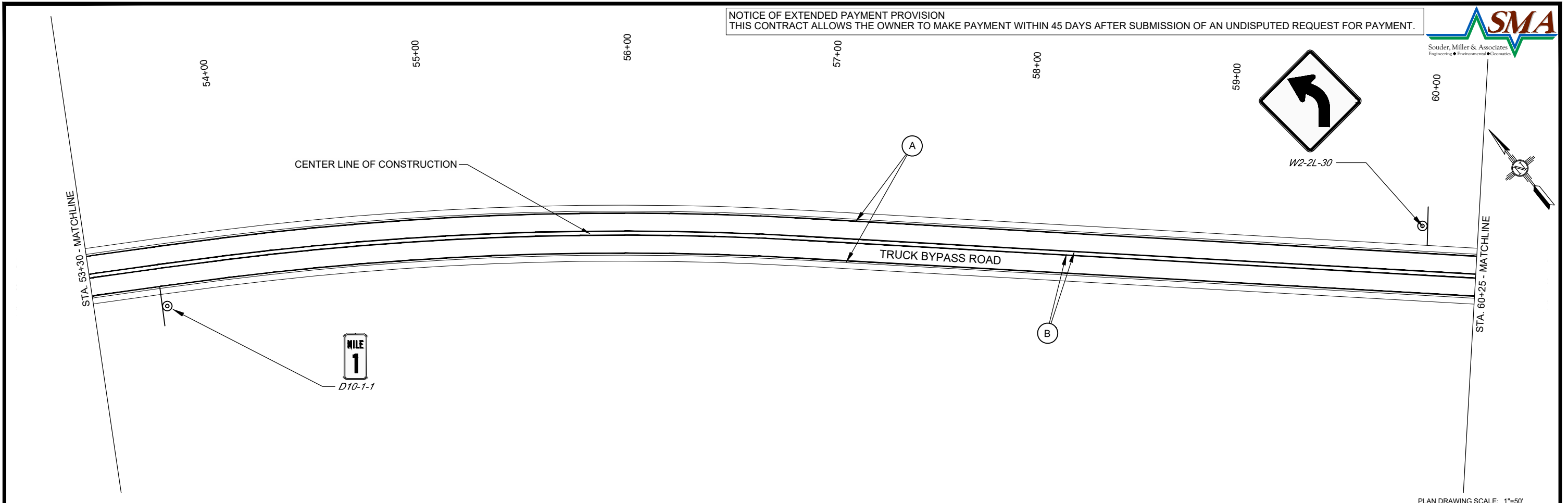
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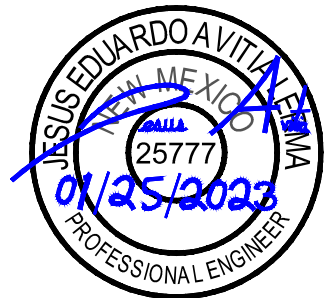
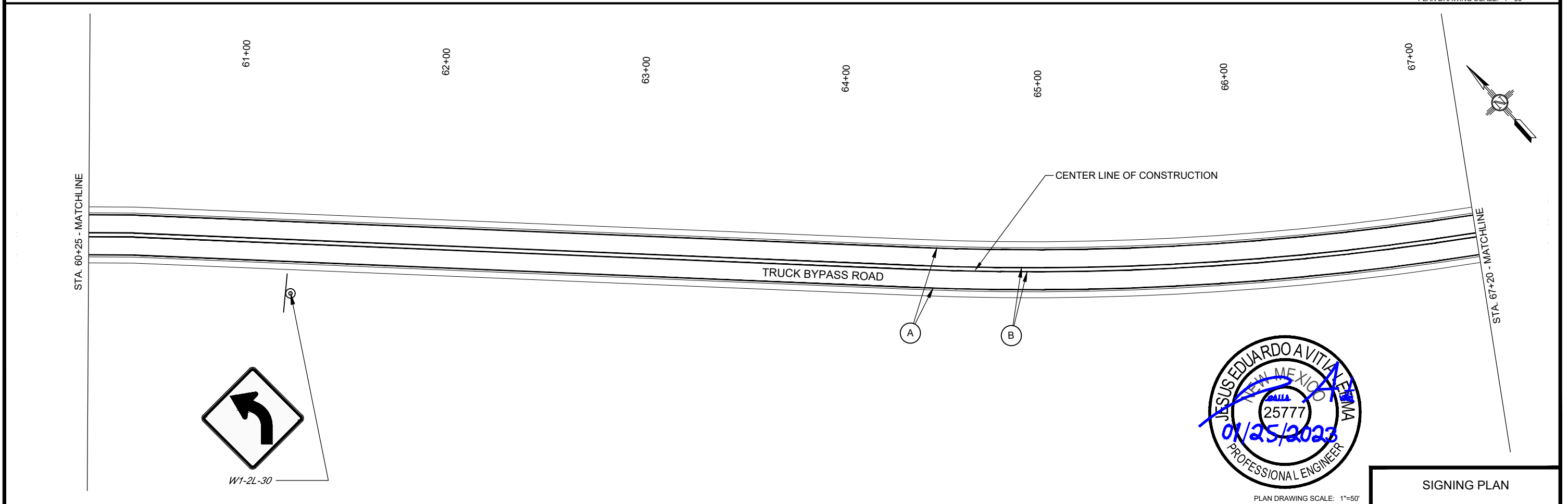
SIGNING PLAN

PLAN DRAWING SCALE: 1"=50'

NOTICE OF EXTENDED PAYMENT PROVISION
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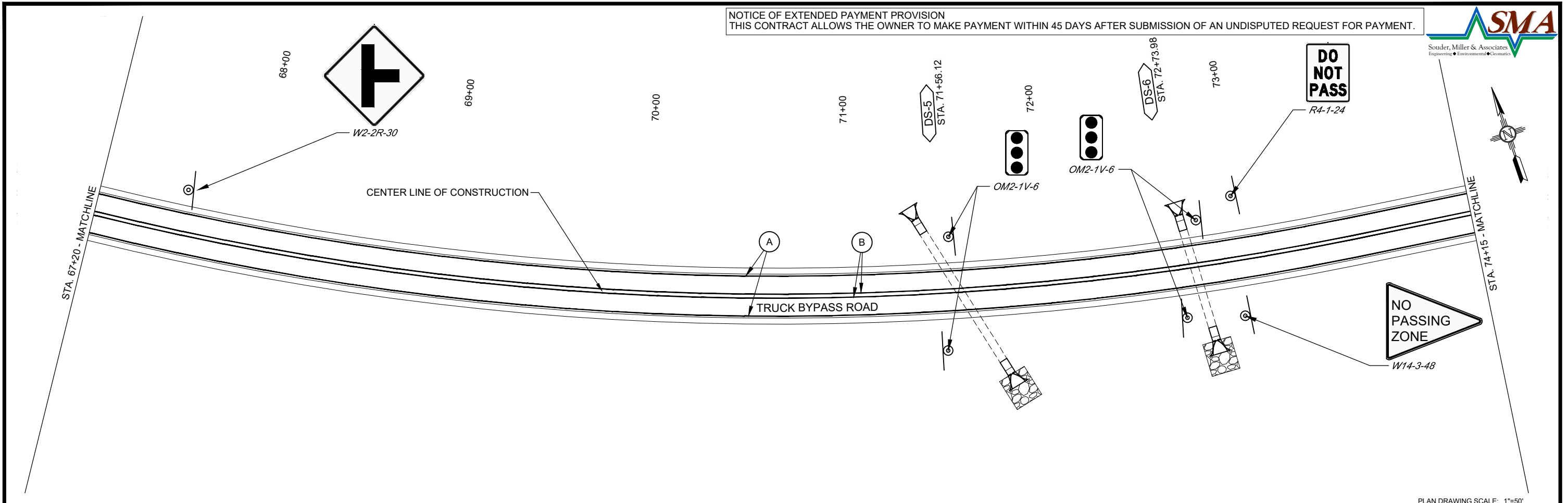
PLAN DRAWING SCALE: 1"=50'



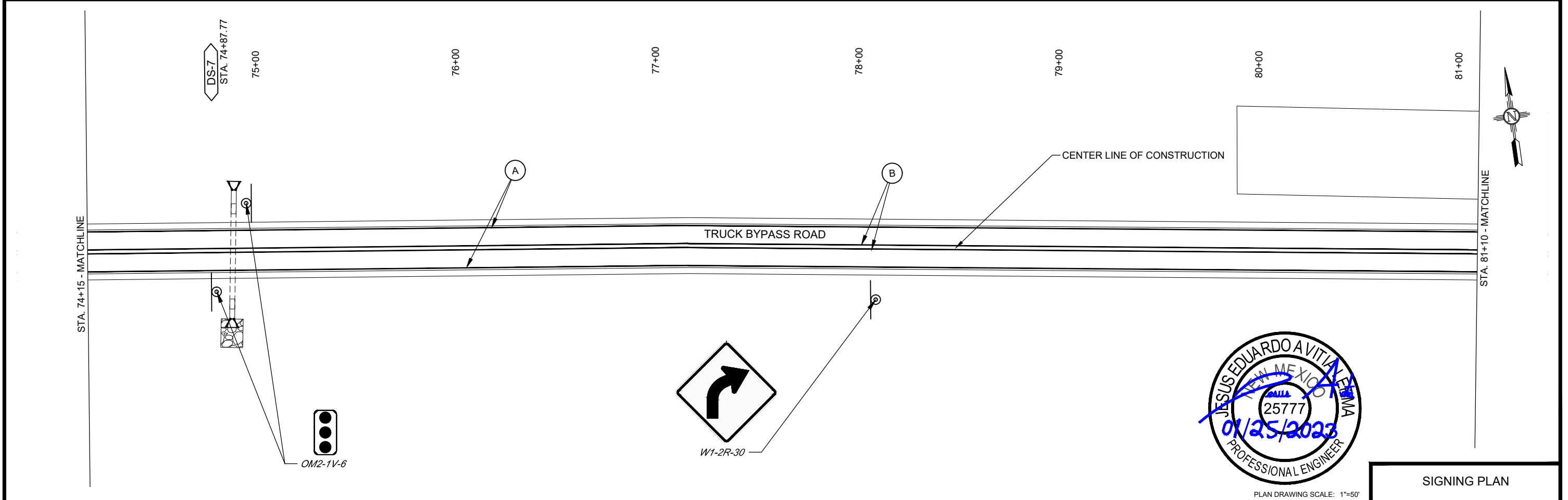
SIGNING PLAN

PLAN DRAWING SCALE: 1"=50'

NOTICE OF EXTENDED PAYMENT PROVISION
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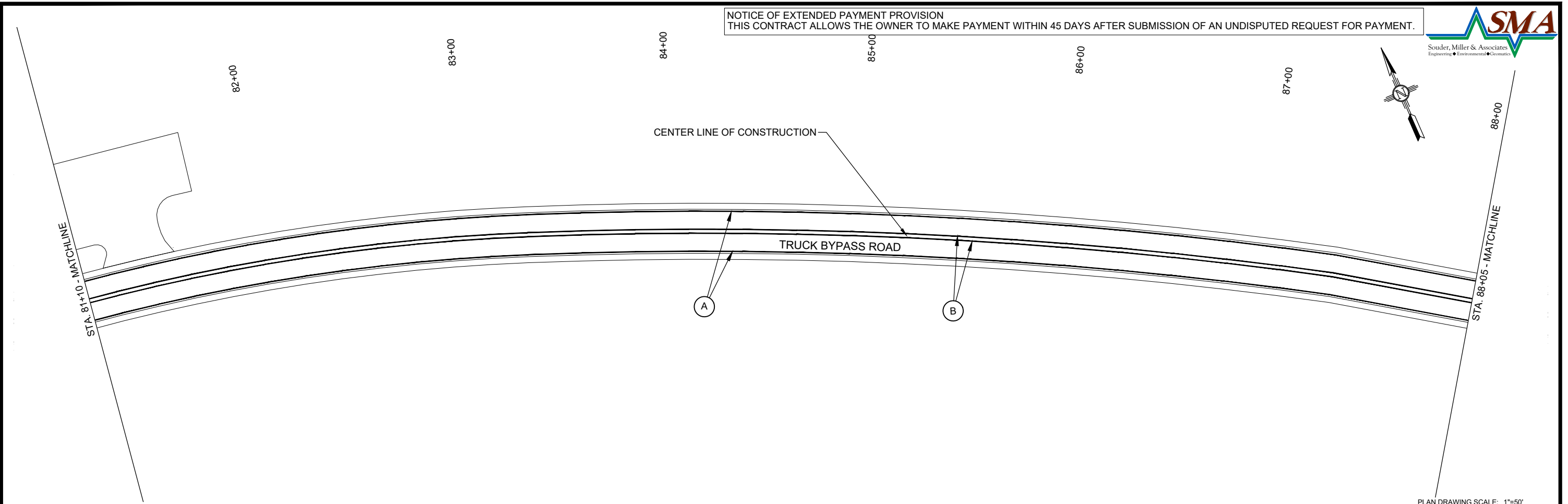
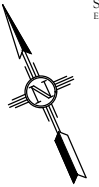
PLAN DRAWING SCALE: 1"=50'



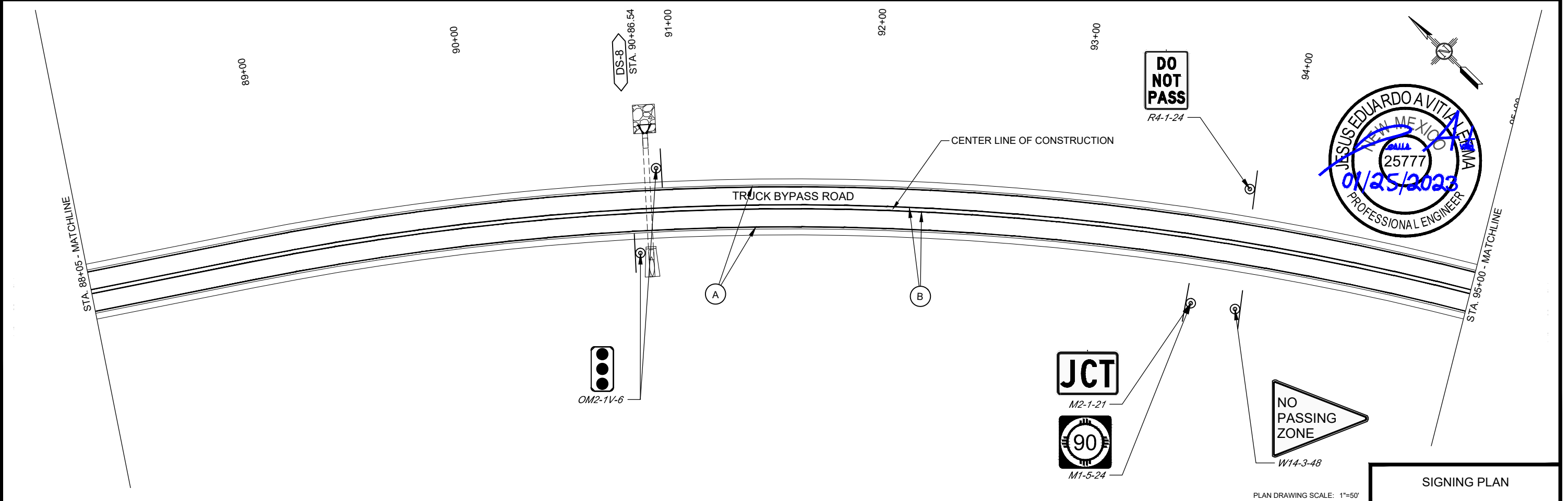
SIGNING PLAN

PLAN DRAWING SCALE: 1"=50'

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



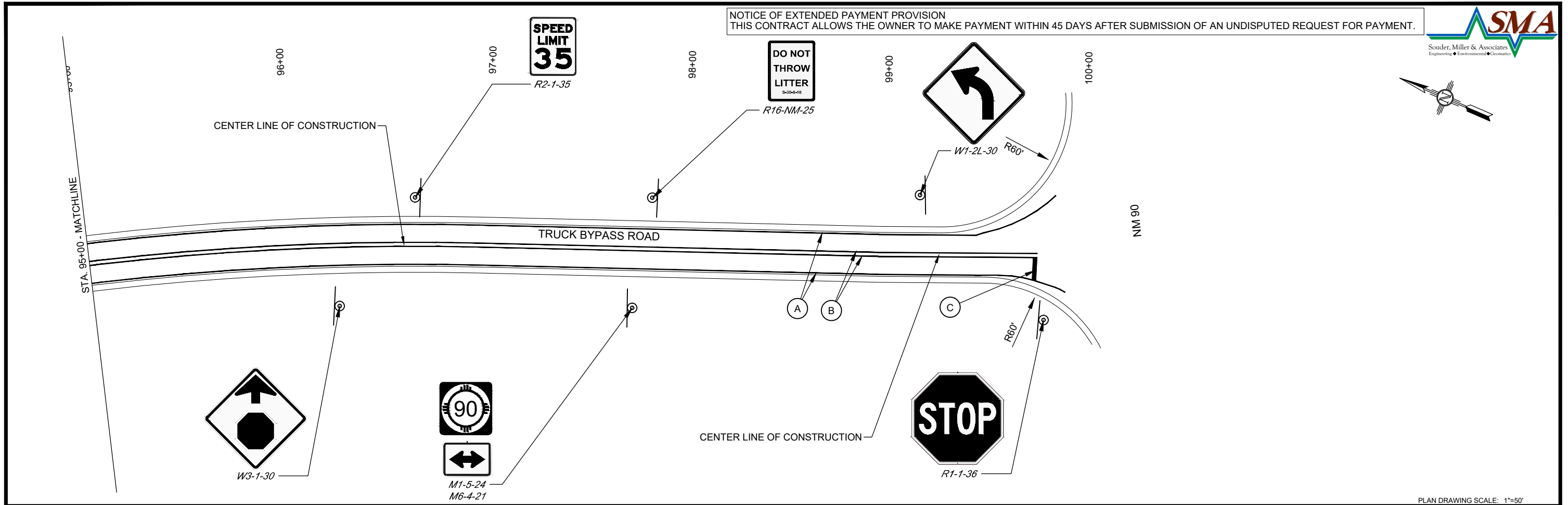
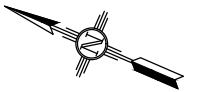
PLAN DRAWING SCALE: 1"=50'



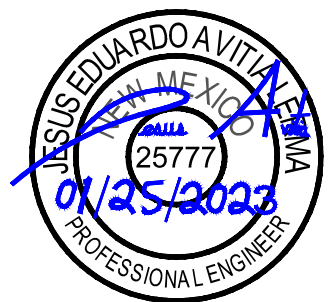
PLAN DRAWING SCALE: 1"=50'

SIGNING PLAN

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



PLAN DRAWING SCALE: 1"=50'



SIGNING PLAN

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PERMANENT SIGNING			701000	MOUNTING REQUIREMENTS						701100	703002	703003
			PANEL SIGNS							STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS	OBJECT MARKER TYPE 2	OBJECT MARKER TYPE 3
SIGN CODE	SIGN SIZE	NO. OF SIGNS	AREA SQ.FT.	POST LENGTHS			BASE POST		LENGTH LIN.FT.	EACH	EACH	
	SQ. FT.	EA.		(SQUARE TUBING-12 GA)	TOTAL	(3' LONG EACH)						
				LEFT	CENTER	RIGHT	LIN. FT.	No.	LIN FT	LIN.FT.		
UNIT 1												
D10-1-0	1.25	1	1.25		10		10	1	3	13		
D10-1-1	1.25	1	1.25		10		10	1	3	13		
M1-4-30	5.00	2	10.00		10		20	2	6	26		
* M2-1-21	2.19	1	2.19									
* M6-4-21	2.19	1	2.19									
R1-1-36	9.00	1	9.00		10		10	1	3	13		
R2-1-35	5.00	2	10.00		10		20	2	6	26		
R4-1-24	5.00	4	20.00		10		40	4	12	52		
SS-1-30	6.25	1	6.25		10		10	1	3	13		
W1-8L-18	3.00	5	15.00		10		50	5	15	65		
W1-8R-18	3.00	5	15.00		10		50	5	15	65		
W1-2L-30	6.25	3	18.75		10		30	3	9	39		
W1-2R-30	6.25	3	18.75		10		30	3	9	39		
W2-2R-30	6.25	1	6.25		10		10	1	3	13		
W3-1-30	6.25	1	6.25		10		10	1	3	13		
* W13-1P-18	2.25	2	4.50									
W14-3-48	6.00	4	24.00		10		40	4	12	52		
OM2-1V-6	0.50	12								12		
OM3-L-12	3.00	4									4	
OM3-R-12	3.00	4									4	
UNIT 2												
M1-5-24	4.00	2	8.00		10		20	2	6			
* M2-1-21	2.19	1	2.19									
* M6-4-21	2.19	1	2.19									
R1-1-36	9.00	1	9.00		10		10	1	3	13		
R2-1-35	5.00	1	5.00		10		10	1	3	13		
R16-NM-25	5.00	1	5.00		10		10	1	3	13		
W1-2L-30	6.25	1	6.25		10		10	1	3	13		
W3-1-30	6.25	1	6.25		10		10	1	3	13		
UNIT 1 TOTAL			170.63							442	12	8
UNIT 1 USE			180.00							442	12	8
UNIT 2 TOTAL			43.88							65	0	0
UNIT 2 USE			50.00							65	0	0
PROJECT TOTAL			215							507	12	8
PROJECT USE			230							507	12	8

* SHARES A POST


NOTE: POSTS FOR OBJECT MARKERS ARE TO BE INCLUDED IN UNIT BID PRICE FOR BID ITEM 703002
NO OTHER PAYMENT SHALL BE MADE.

PERMANENT STRIPING					704000		704005
					RETROREFLECTORIZED PAINTED MARKINGS 4"		RETROREFLECTORIZED PAINTED MARKINGS 24"
DESCRIPTION	STATION TO STATION	OFFSET	LENGTH	4" SOLID WHITE	4" SOLID YELLOW		
	STA. TO STA.	-	FT	LIN.FT.	LIN.FT.	LIN.FT.	
UNIT 1							
WHITE STRIPE	1+10.00	91+85.51	RT.	9076	9076		
SOLID YELLOW	1+10.00	91+85.51	RT.	9076		9076	
WHITE STRIPE	1+10.00	91+85.51	LT.	9076	9076		
SOLID YELLOW	1+10.00	91+85.51	LT.	9076		9076	
STOP BARS	BOP		VAR.	VAR.			14
UNIT 2							
WHITE STRIPE	91+85.51	100+00.00	RT.	814	814		
SOLID YELLOW	91+85.51	100+00.00	RT.	814		814	
WHITE STRIPE	91+85.51	100+00.00	LT.	814	814		
SOLID YELLOW	91+85.51	100+00.00	LT.	814		814	
STOP BARS	EOP		VAR.	VAR.			14
UNIT 1 SUBTOTAL:				18151	18151		14
UNIT 1 X 2 APPLICATIONS:				36302	36302		28
UNIT 1 USE				72610			30
UNIT 2 SUBTOTAL:				1629	1629		14
UNIT 2 X 2 APPLICATIONS:				3258	3258		28
UNIT 2 USE				6520			30
PROJECT TOTAL				39560	39560		56
PROJECT USE				79130			60



4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY

REVISIONS (OR CHANGE NOTICES)



GRANT COUNTY TRUCK BYPASS
ROADWAY & DRAINAGE IMPROVEMENTS
SIGNING & STRIPING QUANTITY

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



1. **BACKFILL CULVERTS.** THE CONTRACTOR SHALL SUBMIT A GROUTING PLAN TO THE PROJECT MANAGER FOR APPROVAL BY THE DISTRICT. THE PLAN SHALL BE SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW MEXICO. THE CONTRACTOR HAS THE OPTION OF USING FLOWABLE FILL INSTEAD OF GROUTING. THE PLAN SHALL INCLUDE A LIFT SEQUENCE FOR EITHER PIPE GROUTING OR FLOWABLE FILL OPERATIONS AND THE PLAN SHALL INCLUDE MORE THAN 2 LIFTS AND SHALL ALLOW THE DISTRICT A TWO WEEK REVIEW PERIOD OF SAID PLAN. NO DRILLING OF HOLES IN THE PAVEMENT OR CBC WILL BE ALLOWED.
2. **CLEANING CULVERTS AND DRAINAGE STRUCTURES.** THE CONTRACTOR SHALL CLEAN ALL EXISTING STRUCTURES WITHIN THE PROJECT LIMITS THAT ARE TO REMAIN OPERATIONAL. STRUCTURES SHALL BE CLEAN DURING CONSTRUCTION AND AT THE TIME OF THE FINAL PROJECT ACCEPTANCE. CONSTRUCTION FOR THE CLEANING OF CULVERTS AND DRAINAGE STRUCTURES IS INCLUDED IN ITEM NO.613000.
3. **WARPING OF SLOPES.** THE CONTRACTOR WARP SLOPES WHERE NECESSARY, AS APPROVED BY THE PROJECT MANAGER. TO STAY WITHIN THE RIGHT OF WAY OR CONSTRUCTION EASEMENT LIMITS.
4. **REMOVALS.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. ADDITIONAL REMOVALS NOT SHOWN ON THE PLANS WILL BE DESIGNATED BY THE PROJECT MANAGER. MEASUREMENT AND PAVEMENT FOR ADDITIONAL REMOVALS WILL BE APPROVED BY THE PROJECT MANAGER BEFORE WORK COMMENCES. DAMAGE DONE TO EXISTING ITEMS THAT WILL REMAIN IN PLACE SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE

LEGEND

	EXISTING EDGE OF PAVEMENT		PROPOSED WIRE ENCLOSED RIPRAP CLASS "A"
	EXISTING CENTERLINE OF ROAD		PROPOSED RIPRAP CLASS "B"
	EXISTING EDGE OF DIRT ROAD		CONCRETE APRON & WINGWALL
	EXISTING METAL BARRIER		DRAINAGE STRUCTURE REFERENCE No.
	EXISTING GRADE BREAKS		PROPOSED 3" HMA SP III COMPLETE RECONSTRUCTION & WIDENING
	EXISTING FENCE		
	EXISTING RIGHT OF WAY		
	PROPOSED CENTERLINE CONSTRUCTION		
	PROPOSED BARBED WIRE FENCE		
	PROPOSED FLOW LINE		
	PROPOSED CUT LINE		
	PROPOSED FILL LINE		
	PROPOSED METAL BARRIER		
	PROPOSED CONCRETE WALL BARRIER		
	MAJOR 10 FT CONTOUR		



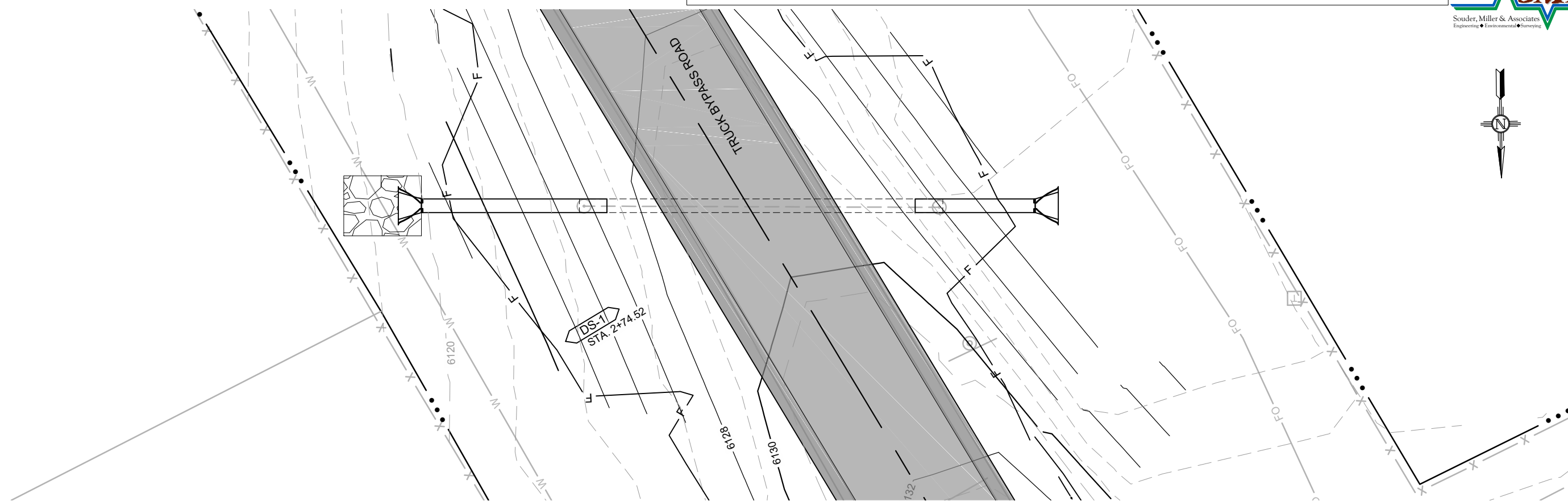
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Vertical Scale: 1" = 5'

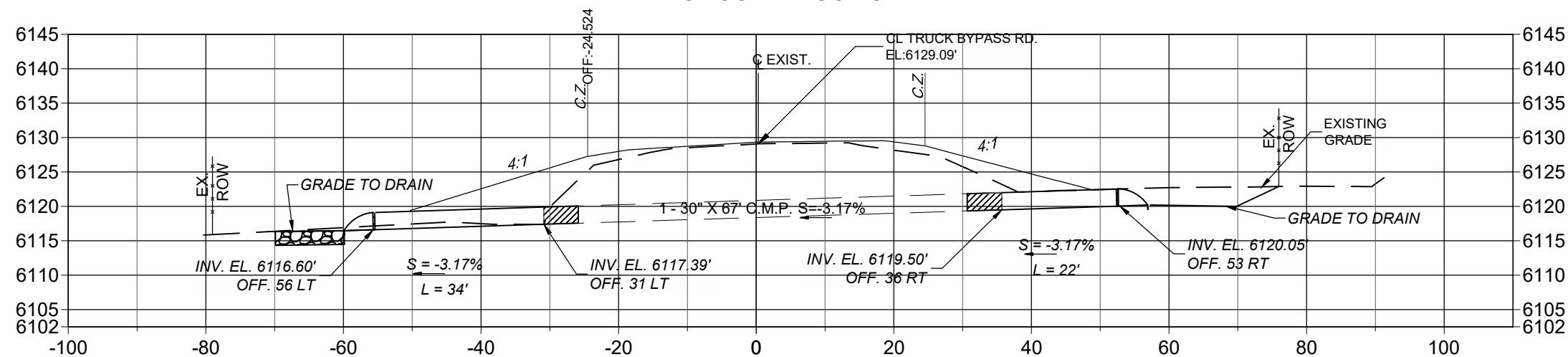
PCN: B-22-06

GENERAL NOTES

NOTICE OF EXTENDED PAYMENT PROVISION
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CL CONSTRUCTION



DS-1
STA. 2+74.52

1 - 30" X 67' R.C.P. SKEW = 30° LT. FWD
REMOVE 5' OF 30" R.C.P. LT. & RT.
EXTEND 34' LT. 22' RT. W/ 1 - 30" C.P.
BUILD METAL END SECTIONS & CAST IN PLACE CONNECTOR LT. & RT.
BUILD 14.5' X 11' (APPROX.) RIPRAP PAD LT.

SERIALS - 203-01-1/1, 206-01-1/1, 206-03-1/1, 206-04-2/3, 206-04-3/3, 206-07-1/1,
210-01-1/1, 515-01-2/2, 570-02-1/2



Horizontal Scale: 1"=20'

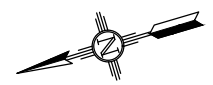
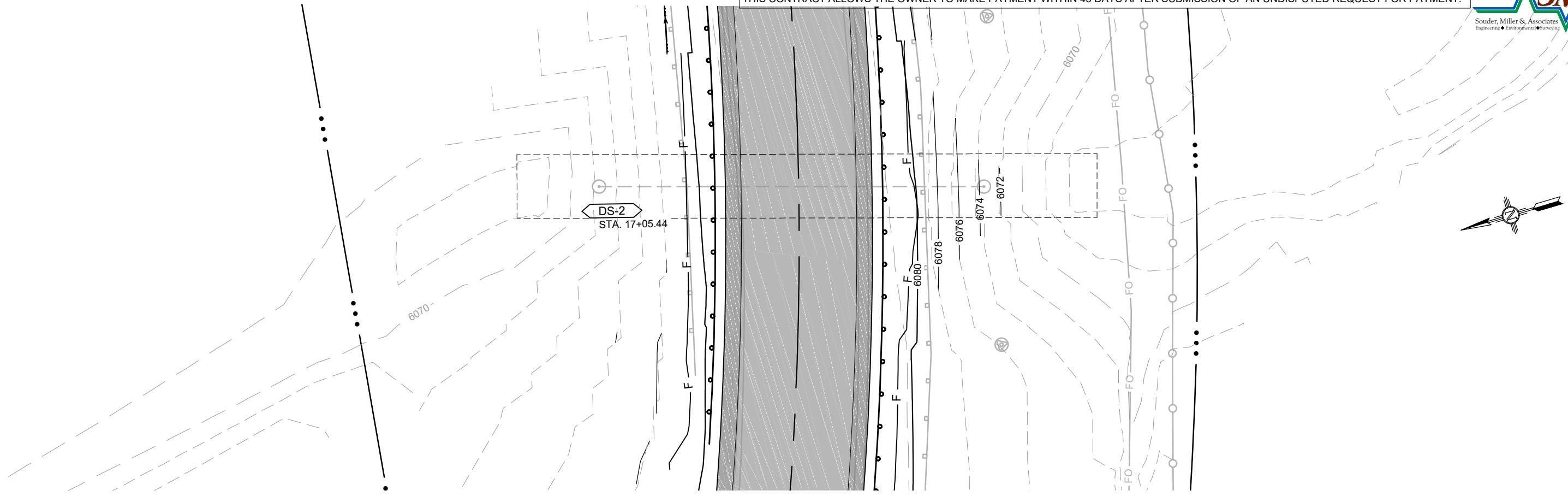
Vertical Scale: 1" = 5'

PCN: B-22-06

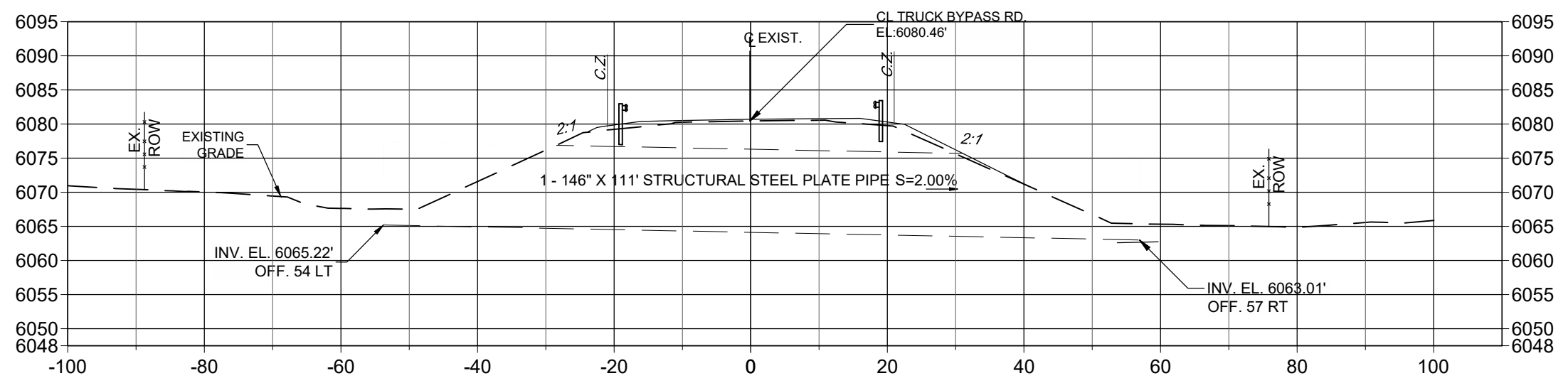
STRUCTURE SECTIONS

Alignment: 7328699_TRUCKBYPASS

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



CL CONSTRUCTION



DA=557	AC
HW=7.28	FT
Q ₁₀₀ =476	CFS

DS-2
STA. 17+05.44

SERIALS - 606-17-1/7, 606-17-2/7, 606-17-3/7

1 - 146" X 111' STRUCTURAL STEEL PLATE PIPE SKEW = NORMAL
CLEAN STRUCTURE AS REQUIRED



Horizontal Scale: 1"=20'

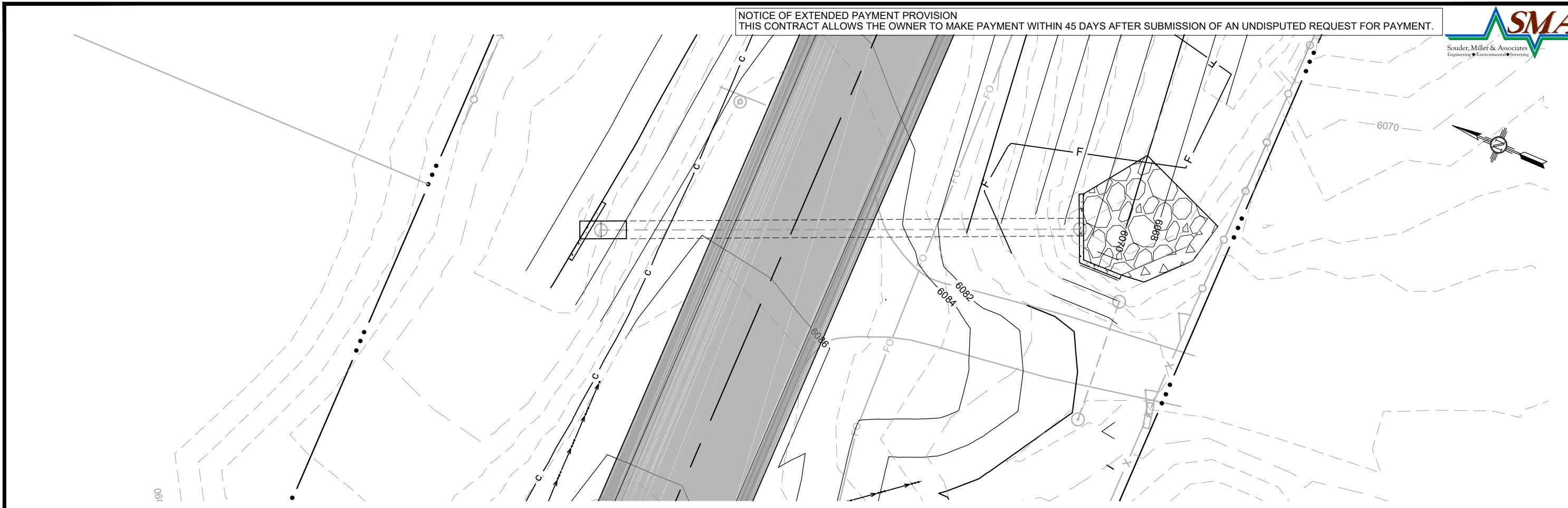
Vertical Scale: 1" = 5'

PCN: B-22-06

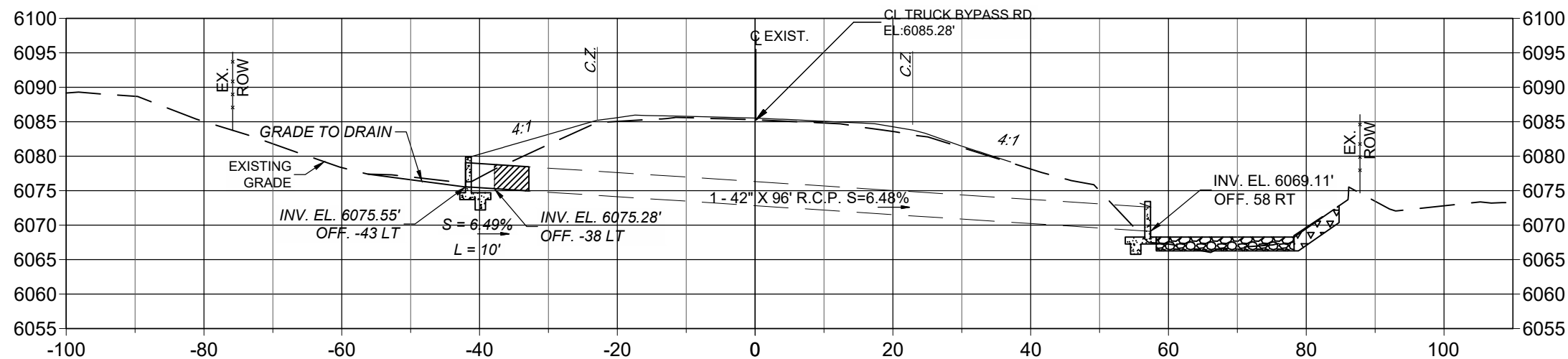
STRUCTURE SECTIONS

Alignment: 7328699_TRUCKBYPASS

NOTICE OF EXTENDED PAYMENT PROVISION
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CL CONSTRUCTION



DS-3
STA. 29+48.13

1 - 42" X 95' R.C.P. SKEW = 23° RT. FWD.
REMOVE 5' OF 42" R.C.P. LT.
EXTEND 10' LT. WI 1 - 42" C.M.P
BUILD CONCRETE HEADER WALLS LT. & RT.
BUILD 21' X 2.5' (APROX.) CLASS & A 26' X 18' (APROX.) CLASS B RIPRAP PAD RT.
BUILD CAST IN PLACE CONNECTOR LT.

SERIALS - 203-01-1/1, 206-01-1/1, 206-03-1/1, 206-04-2/3, 206-04-3/3, 206-07-1/1,
210-01-1/1, 511-03-1/2, 511-03-2/2, 515-01-2/2, 570-02-1/2



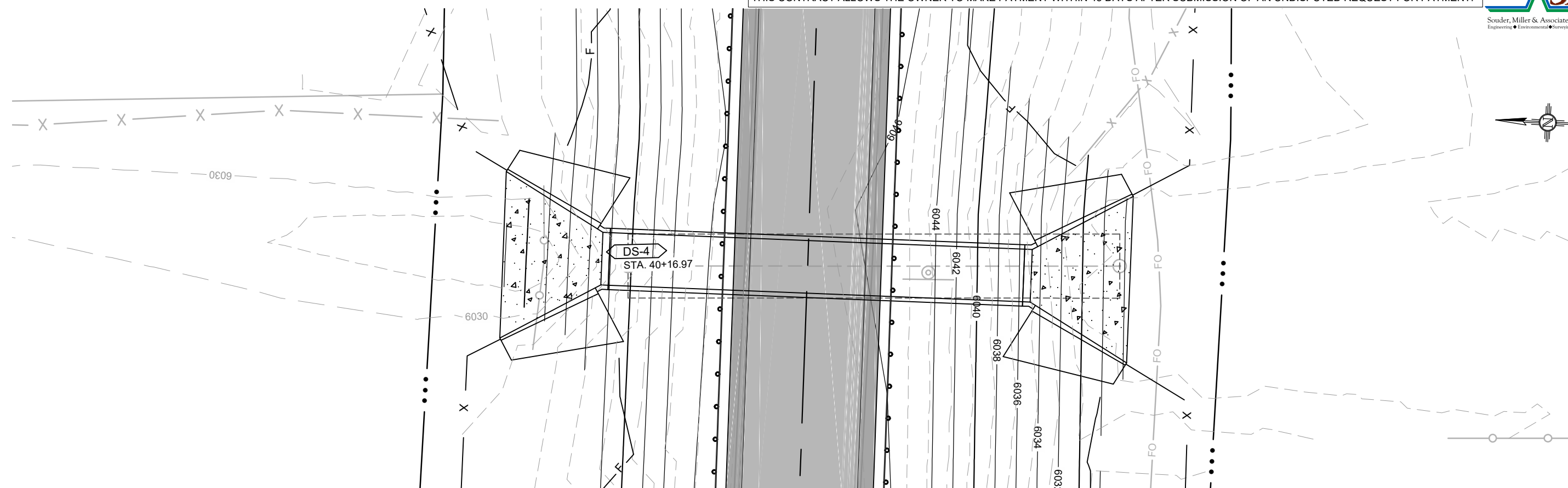
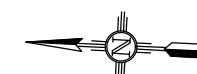
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Vertical Scale: 1" = 5'

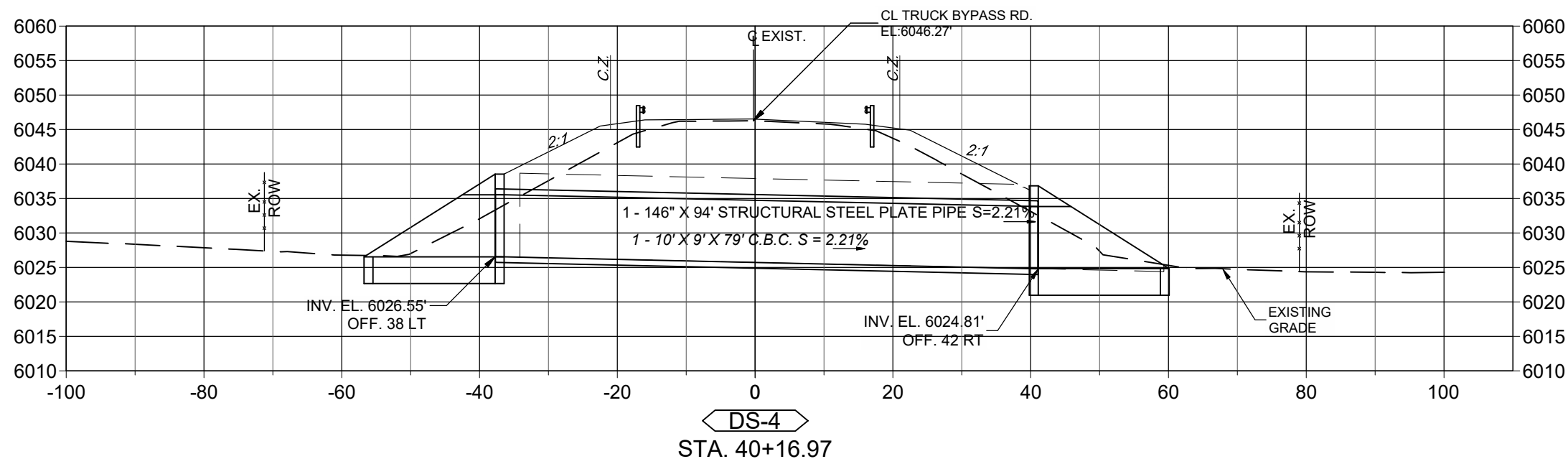
PCN: B-22-06

STRUCTURE SECTIONS

NOTICE OF EXTENDED PAYMENT PROVISION
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CL CONSTRUCTION



DA=1152	AC
HW=9.89	FT
Q ₁₀₀ =898	CFS

1- 146" X 94' STRUCTURAL STEEL PLATE PIPE SKEW = NORMAL
 REMOVE EXISTING 1 - 146" X 94' STRUCTURAL STEEL PLATE PIPE
 BUILD 1 - 10' X 9' X 79' C.B.C. SKEW = NORMAL SERIALS - 203-01-1/1, 210-01-1/1, 511-59-1/2, 511-59-2/2, 511-60-1/2, 511-60-2/2,
 BUILD HEADWALL AND WINGWALL LT. & RT. 515-01-2/2, 606-17-1/7, 606-17-2/7, 606-17-3/7
 OVER-EXCAVATE AND REPLACE 3 FEET UNDER PROPOSED C.B.C.



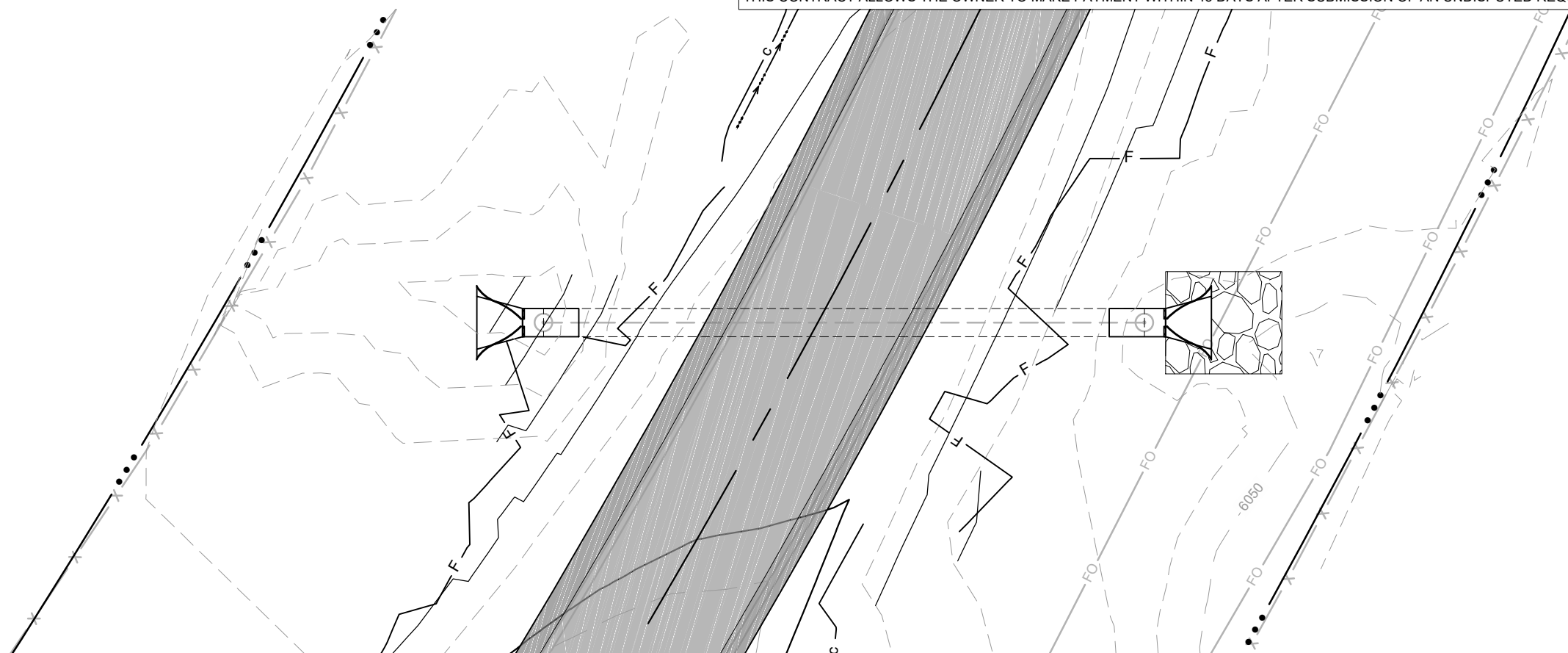
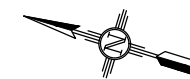
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Vertical Scale: 1" = 5'

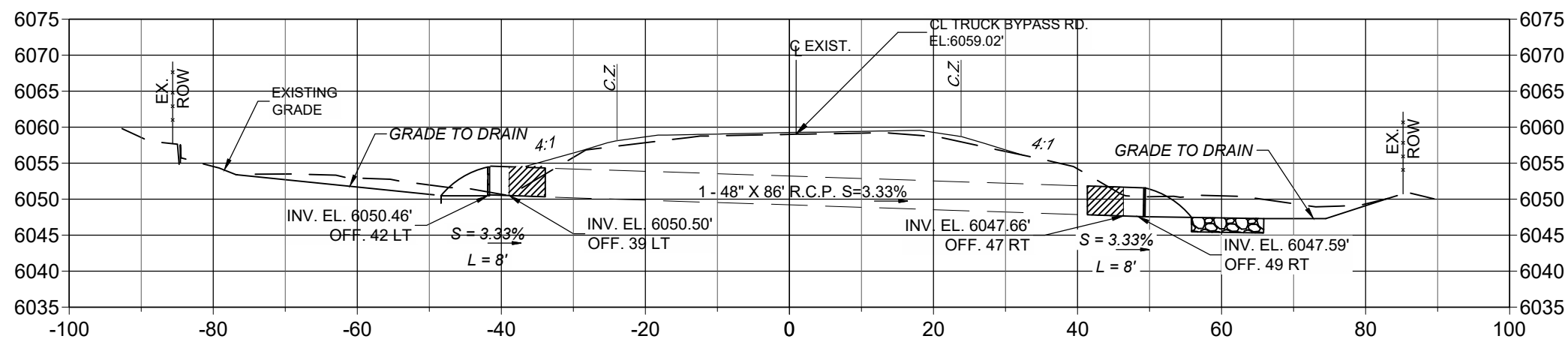
PCN: B-22-06

STRUCTURE SECTIONS

NOTICE OF EXTENDED PAYMENT PROVISION
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CL CONSTRUCTION



DS-5
STA. 71+56.12

1 - 48" X 85' R.C.P. SKEW = 28° RT. FWD.
REMOVE 5' OF 48" R.C.P. LT. & RT.
EXTEND 8' LT. & 8' RT. W/ 1 - 48" C.P.
BUILD METAL END SECTIONS & CAST IN PLACE CONNECTOR LT. & RT.
BUILD 16.5' X 14.5' (APROX.) RIPRAP PAD RT.

SERIALS - 203-01-1/1, 206-01-1/1, 206-03-1/1, 206-04-2/3, 206-04-3/3, 206-07-1/1,
210-01-1/1, 515-01-2/2, 570-02-1/2



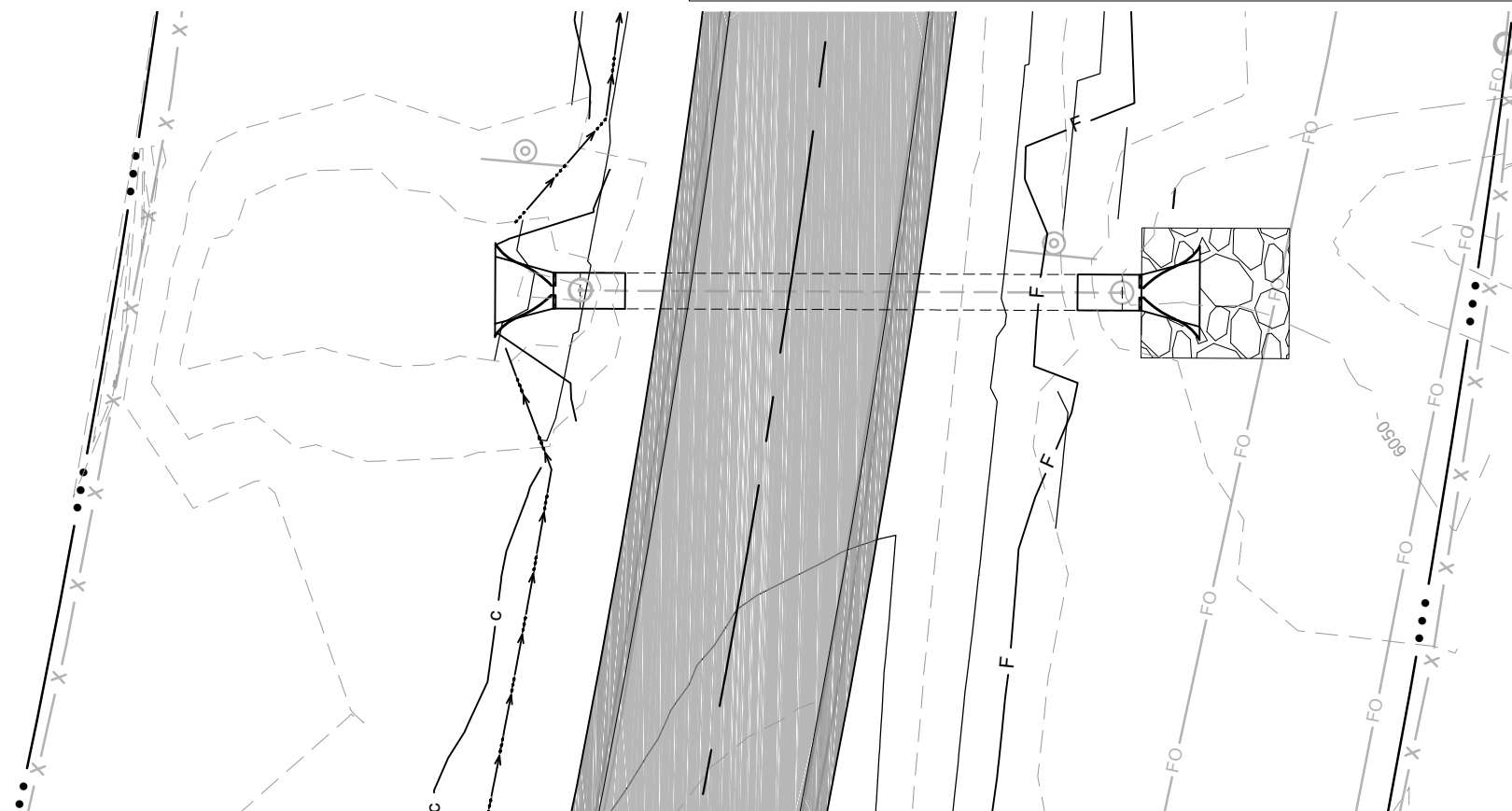
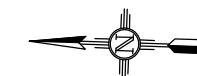
Horizontal Scale: 1"=20'

Vertical Scale: 1" = 5'

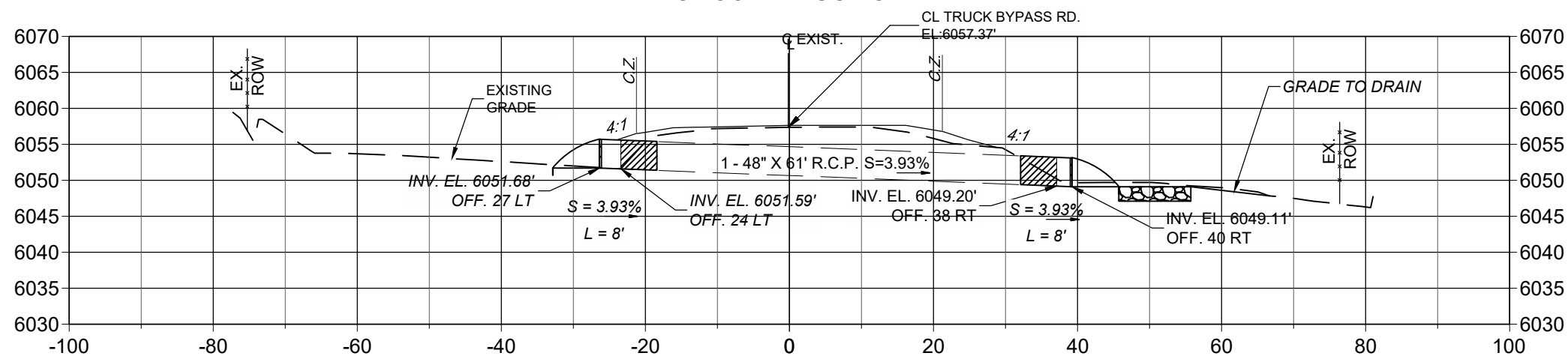
PCN: B-22-06

STRUCTURE SECTIONS

NOTICE OF EXTENDED PAYMENT PROVISION
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CL CONSTRUCTION



DS-6
STA. 72+73.98

1- 48" X 60' R.C.P. SKEW = 8° RT. FWD. SERIALS - 203-01-1/1, 206-01-1/1, 206-03-1/1, 206-04-2/3, 206-04-3/3, 206-07-1/1,
REMOVE 5' OF 48" R.C.P. LT. & RT. 210-01-1/1, 515-01-2/2, 570-02-1/2
EXTEND 8' LT. & 8' RT. W/ 1 - 48" C.P.
BUILD METAL END SECTIONS CAST IN PLACE CONNECTOR LT. & RT.
BUILD 16.5' X 14.5' (APPROX.) RIPRAP PAD RT.



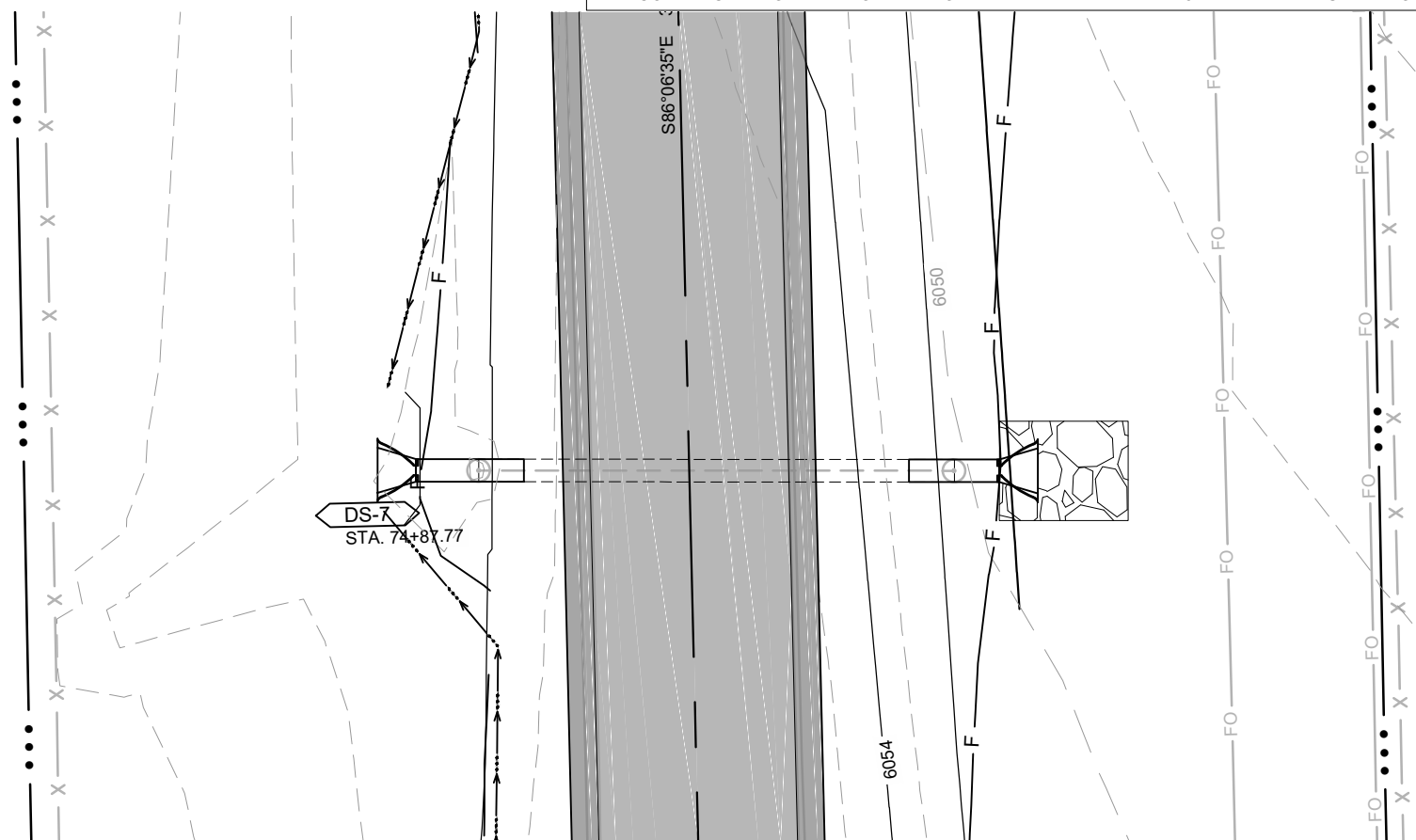
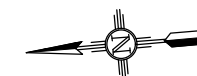
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Vertical Scale: 1" = 5'

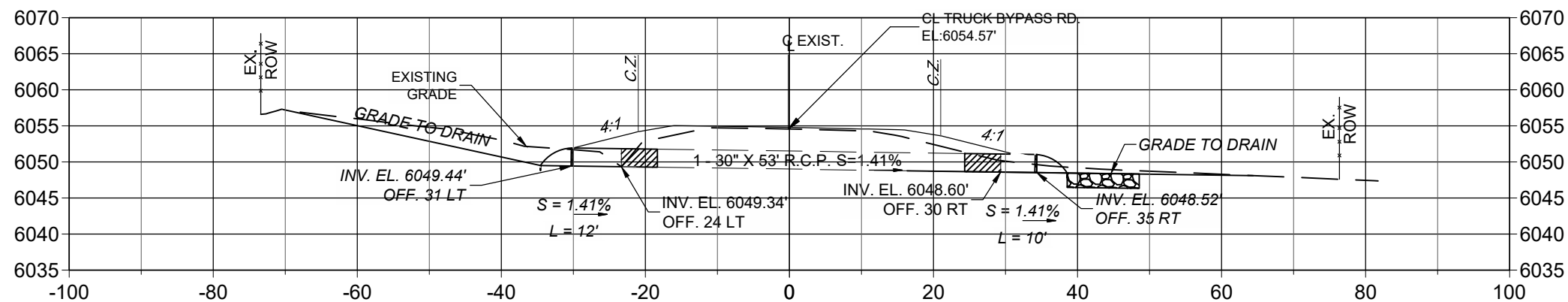
PCN: B-22-06

STRUCTURE SECTIONS

NOTICE OF EXTENDED PAYMENT PROVISION
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CL CONSTRUCTION



DS-7
STA. 74+87.77

1 - 30" X 53' R.C.P. SKEW = NORMAL
REMOVE 5' OF 30" R.C.P. LT. & RT.
EXTEND 12' LT. & 10' RT. W/ 1 - 30" C.P.
BUILD METAL END SECTIONS & CAST IN PLACE CONNECTOR LT. & RT.
BUILD 14.5' X 11' (APROX.) RIPRAP PAD RT.

SERIALS - 203-01-1/1, 206-01-1/1, 206-03-1/1, 206-04-2/3, 206-04-3/3, 206-07-1/1, 210-01-1/1, 570-02-1/2



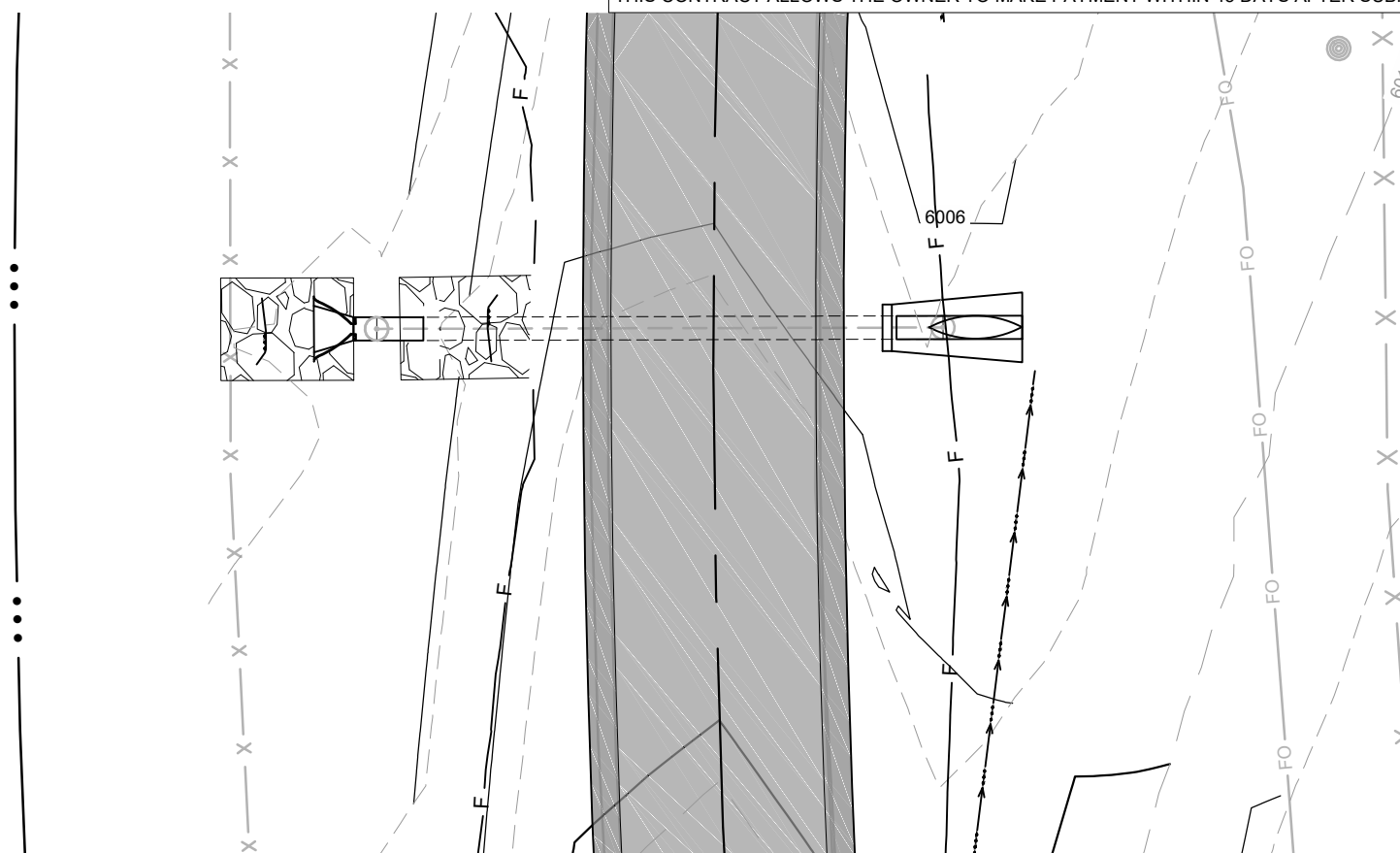
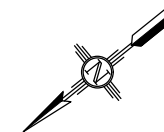
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Vertical Scale: 1" = 5'

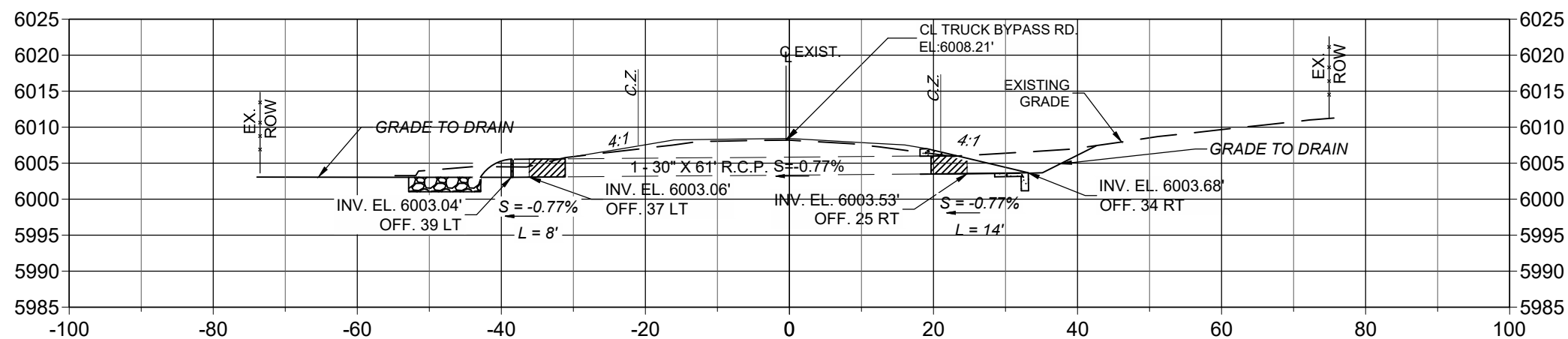
PCN: B-22-06

STRUCTURE SECTIONS

NOTICE OF EXTENDED PAYMENT PROVISION
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CL CONSTRUCTION



DS-8
STA. 90+86.54

- 1 - 30" X 61" R.C.P. SKEW = NORMAL
- REMOVE 5' OF 30" R.C.P. LT. & RT.
- EXTEND 8' LT. & 14' RT. W/ 1 - 30" C.M.P
- BUILD CONCRETE SLOPE BLANKET W/ SAFETY GRATE RT.
- BUILD METAL END SECTION LT.
- BUILD 14.5' X 11' (APROX.) RIPRAP PAD LT.
- BUILD CAST IN PLACE CONNECTOR LT. & RT.

SERIALS - 203-01-1/1, 206-01-1/1, 206-03-1/1, 206-04-2/3, 206-04-3/3, 206-07-1/1, 210-01-1/1, 515-01-2/2, 570-02-1/2, 511-22-1/3, 511-22-2/3, 511-22-3/3, 511-25-1/2, 511-25-2/2

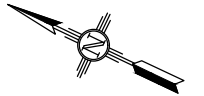


Horizontal Scale: 1"=20'

Vertical Scale: 1" = 5'

PCN: B-22-06

STRUCTURE SECTIONS

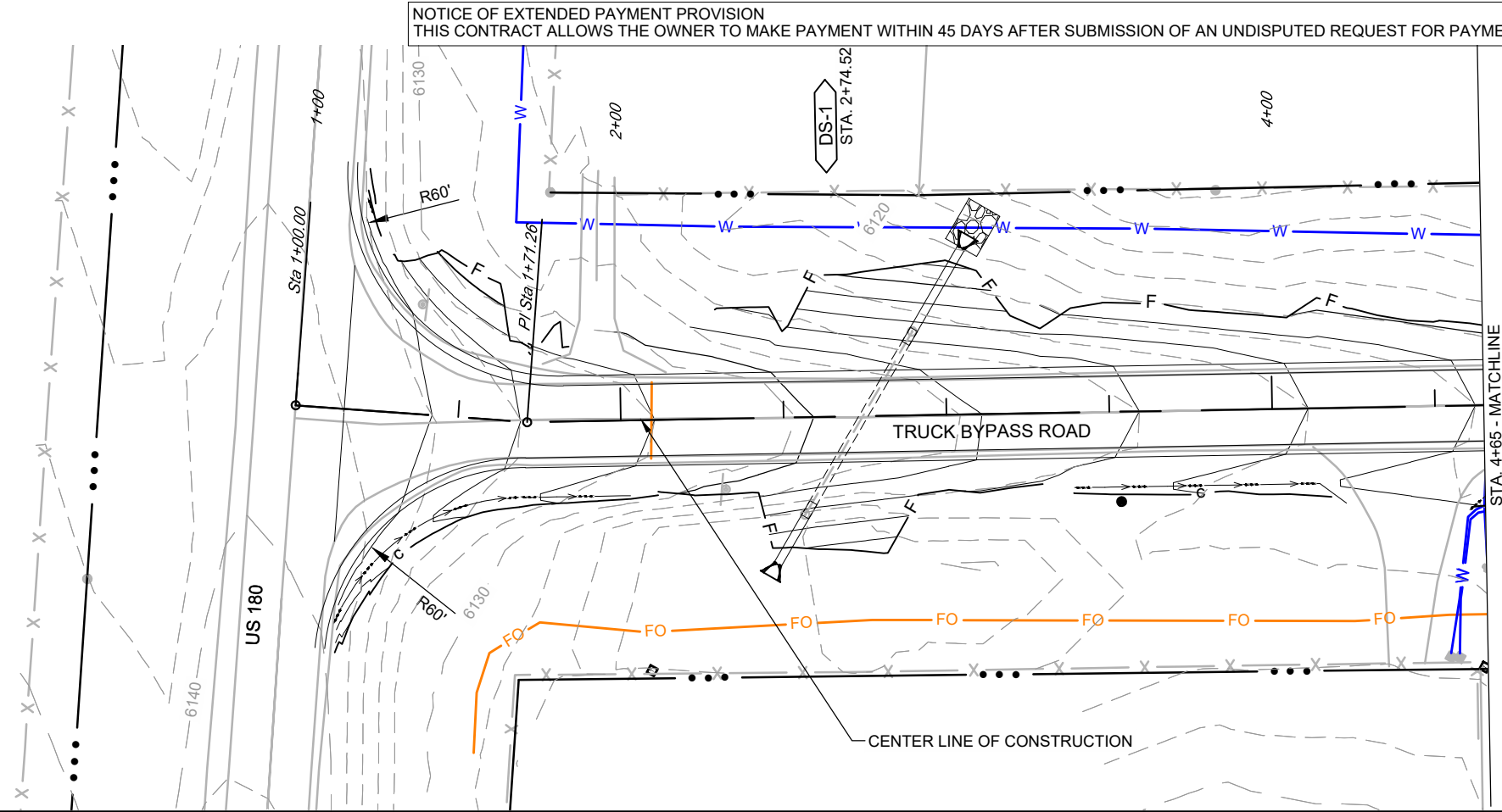


NOTICE OF EXTENDED PAYMENT PROVISION
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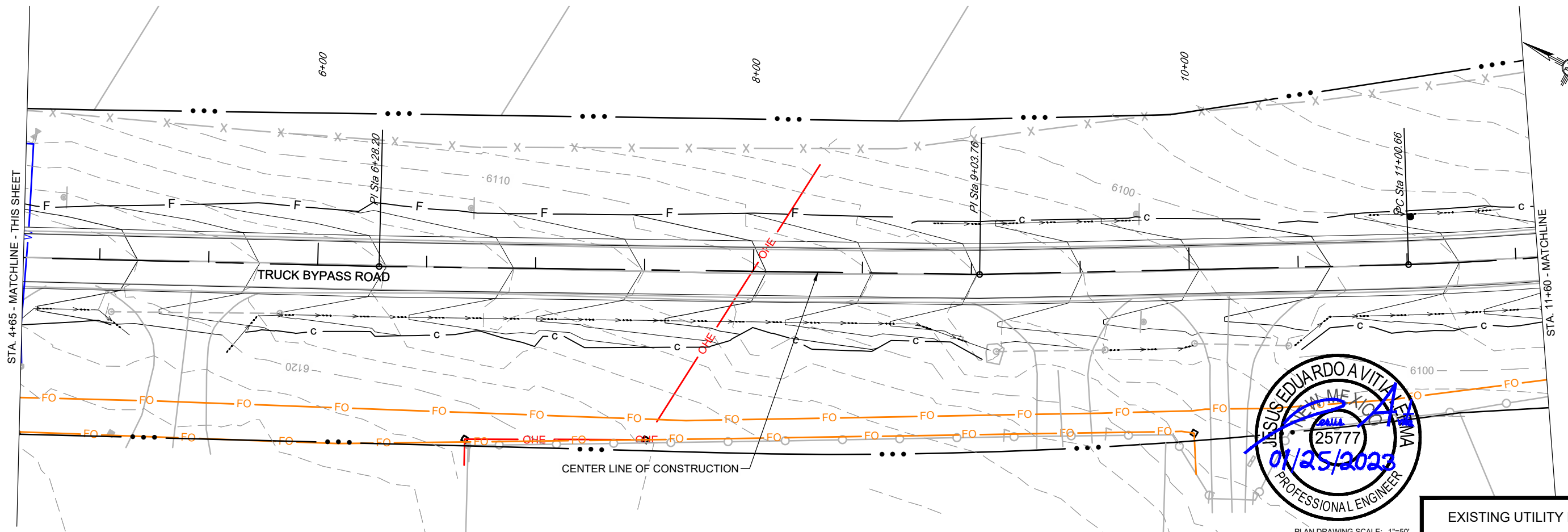
UTILITY LEGEND	
	FO EXISTING FIBER OPTIC
	W EXISTING WATER
	OHE EXISTING OVERHEAD ELECTRIC
	T EXISTING UNDERGROUND TELEPHONE
	GAS EXISTING UNDERGROUND GAS
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING FIRE HYDRANT
	EXISTING UTILITY POLE
	EXISTING COMMUNICATIONS PEDESTAL

UTILITY CONTACTS:

P.N.M. POWER: 575-956-1480
 NEW MEXICO GAS COMPANY: 575-956-1428
 TOWN OF SILVER CITY: 575-537-2287
 WESTERN NM COMMUNICATION: 575-535-9956
 CENTURY LINK (LUMEN): 575-525-5021



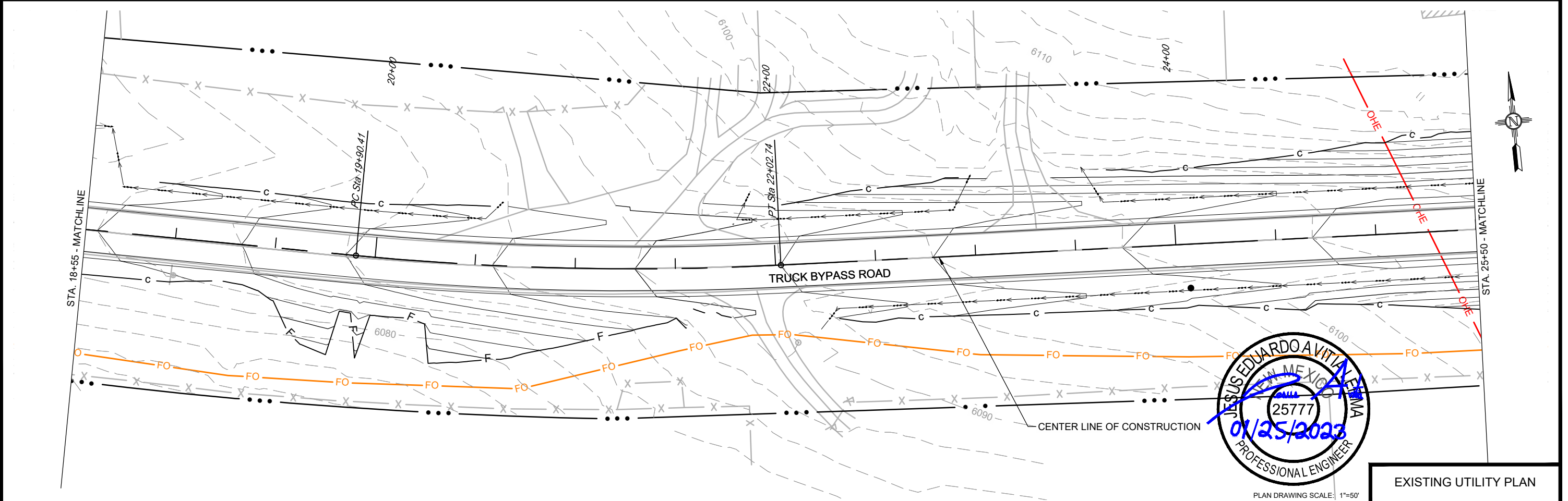
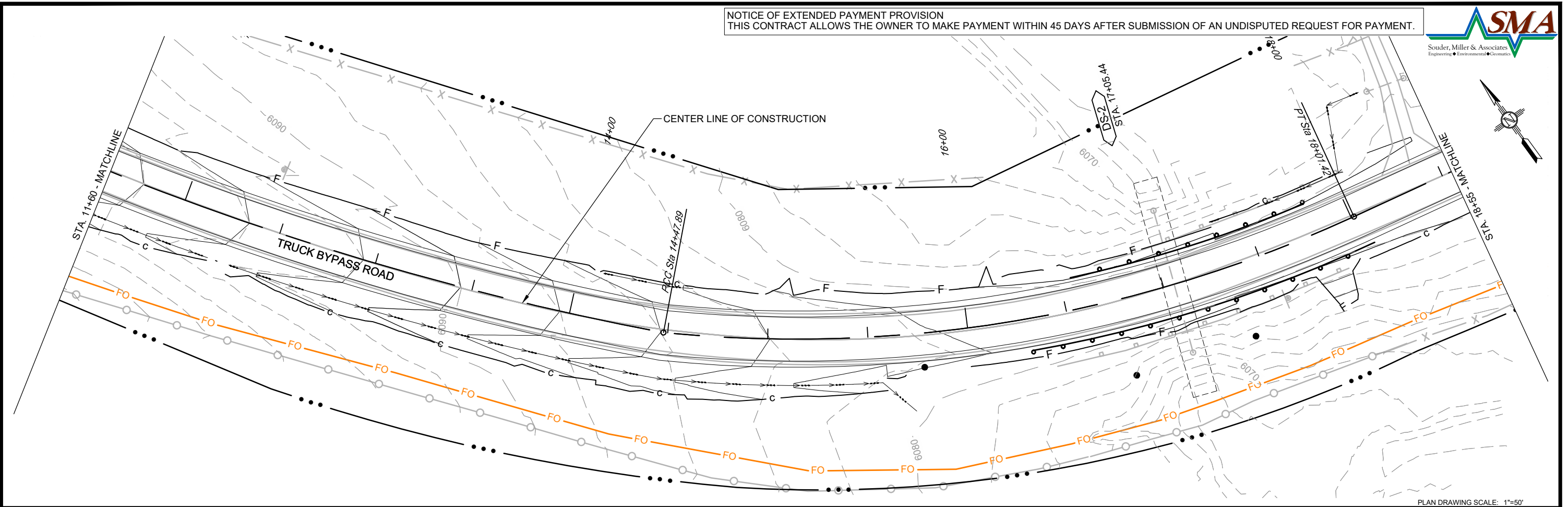
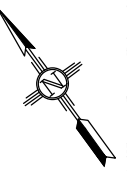
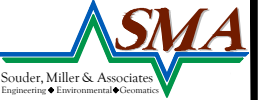
PLAN DRAWING SCALE: 1"=50'



EXISTING UTILITY PLAN

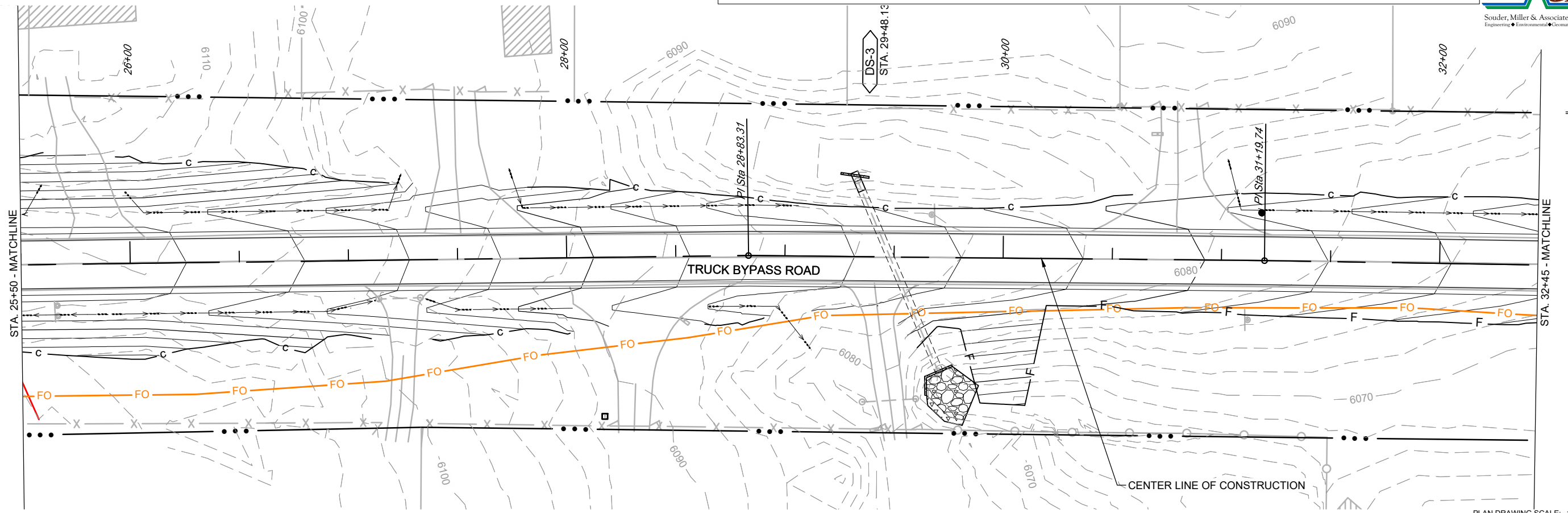
PLAN DRAWING SCALE: 1"=50'

NOTICE OF EXTENDED PAYMENT PROVISION
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

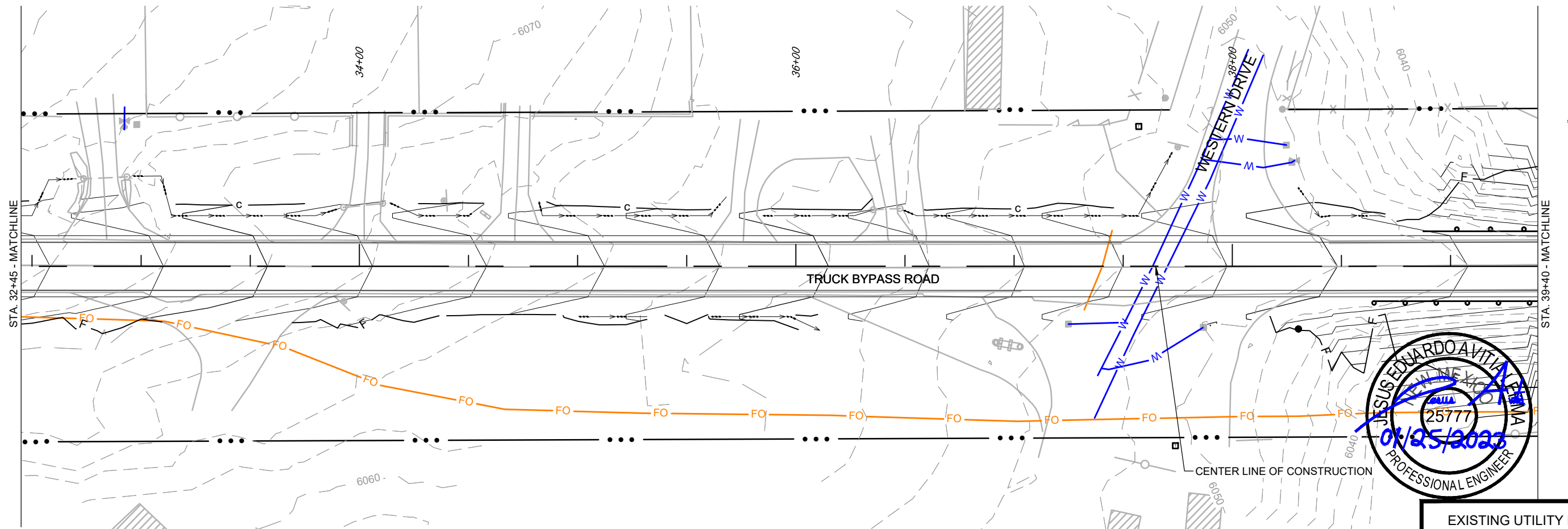


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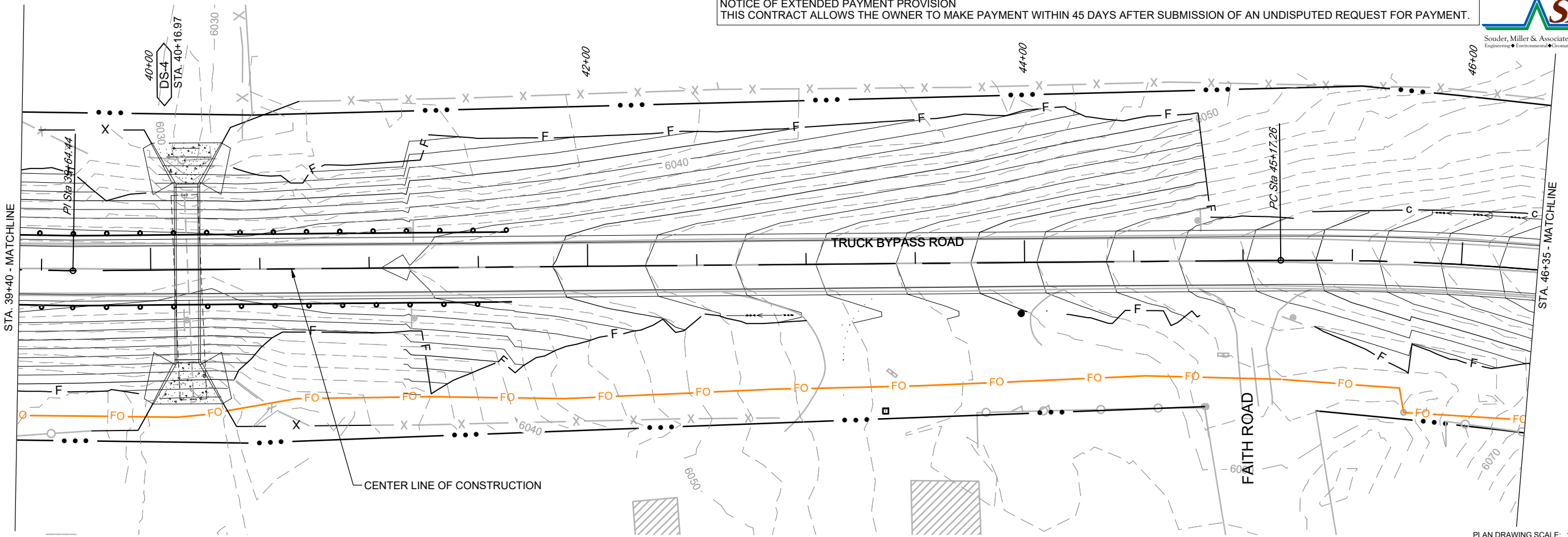
PLAN DRAWING SCALE: 1"=50'



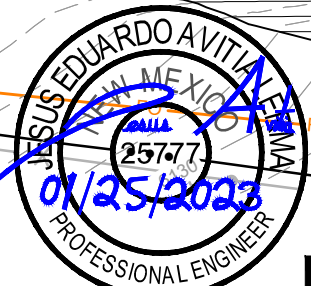
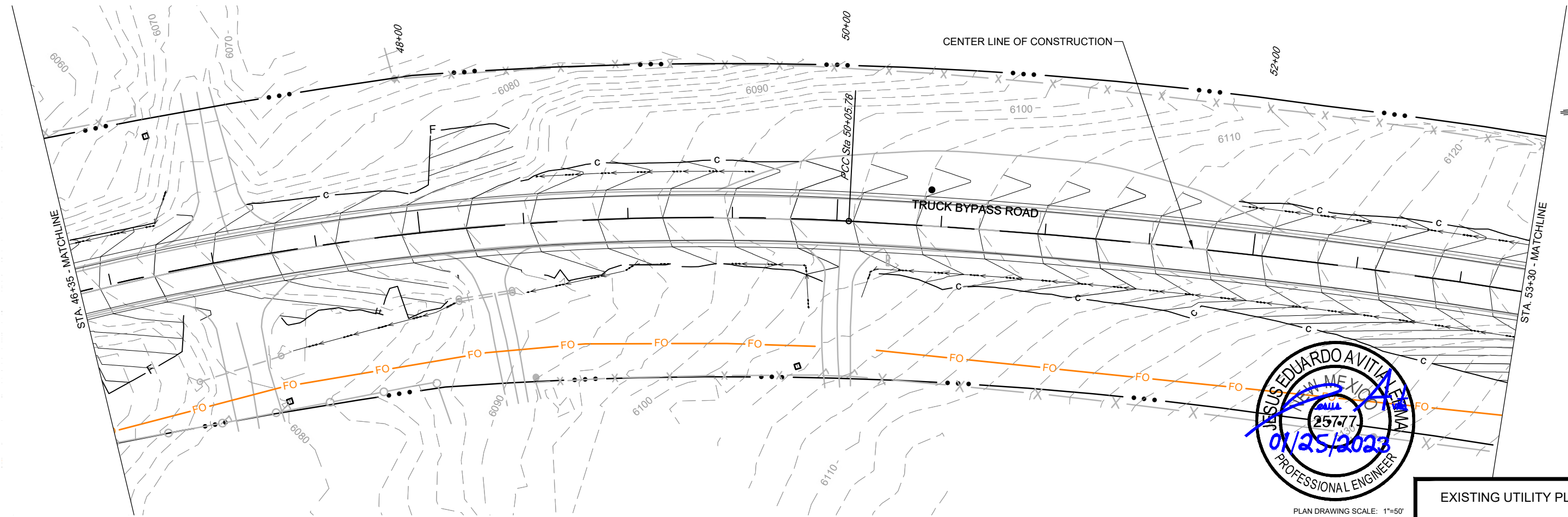
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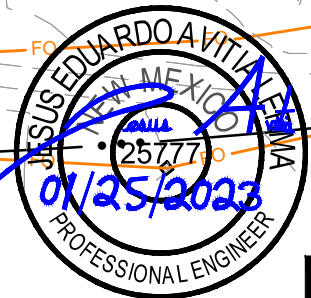
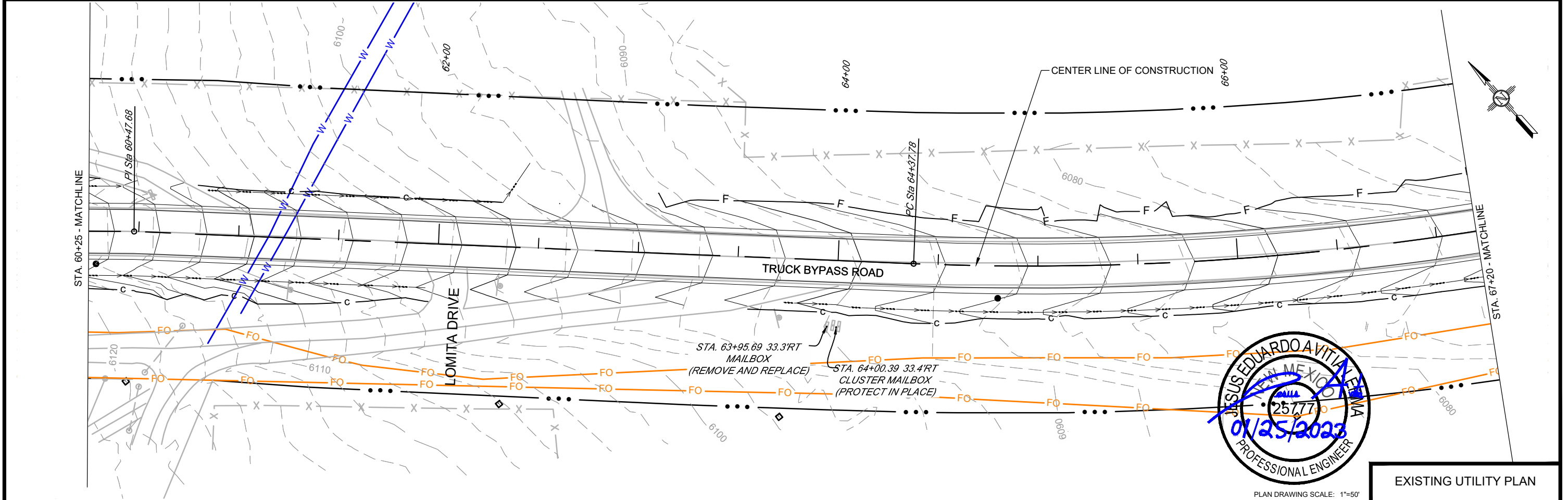
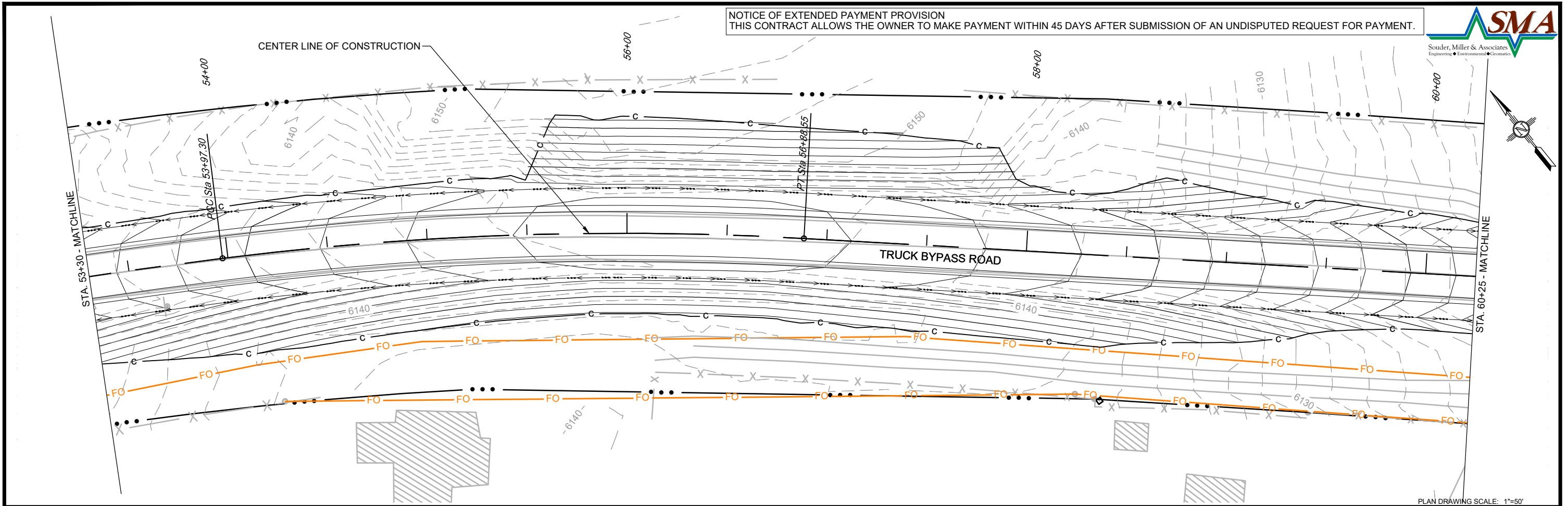
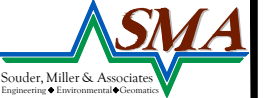
PLAN DRAWING SCALE: 1"=50'



EXISTING UTILITY PLAN

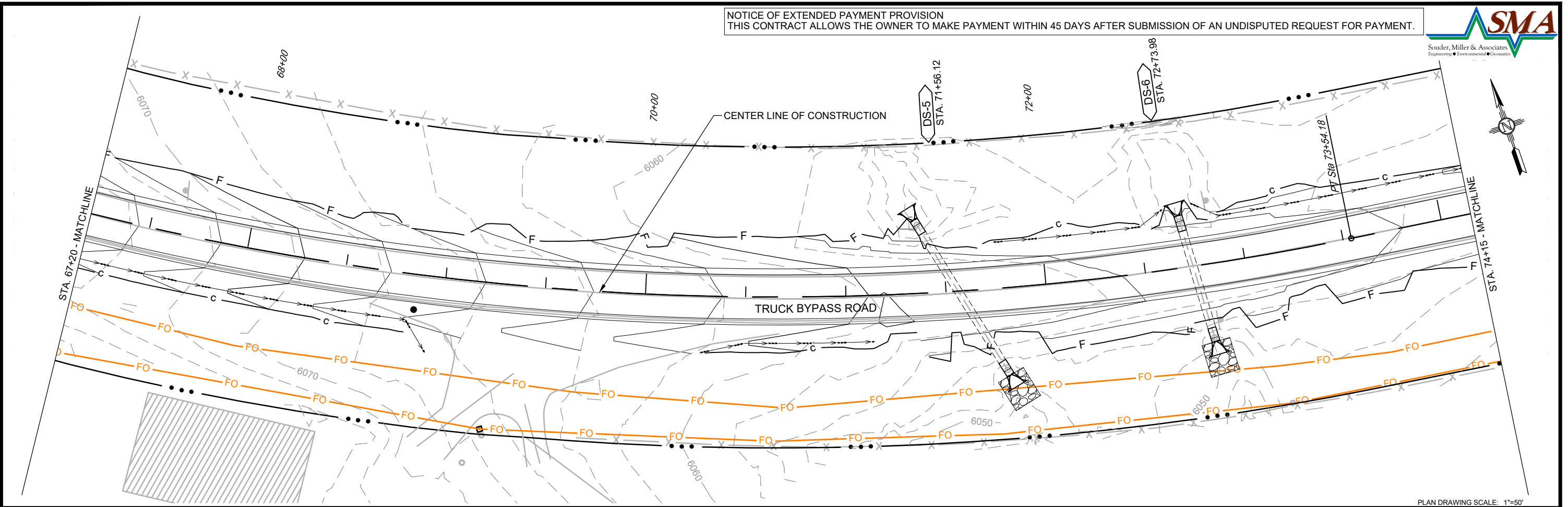
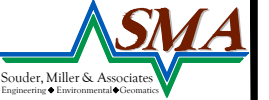
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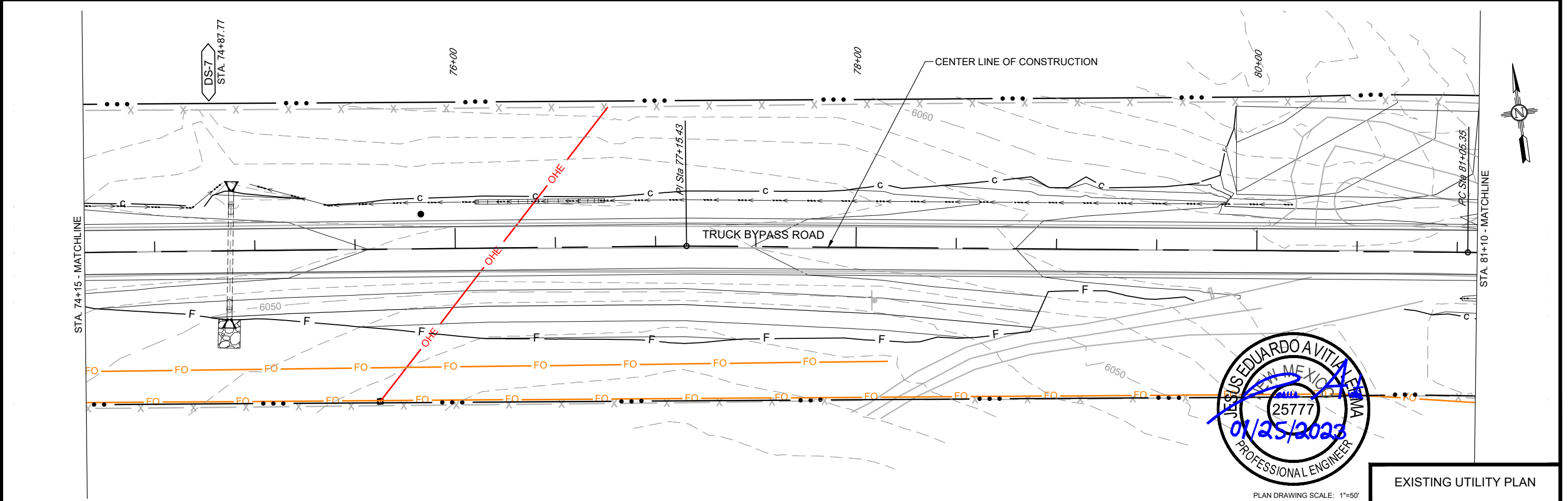


EXISTING UTILITY PLAN

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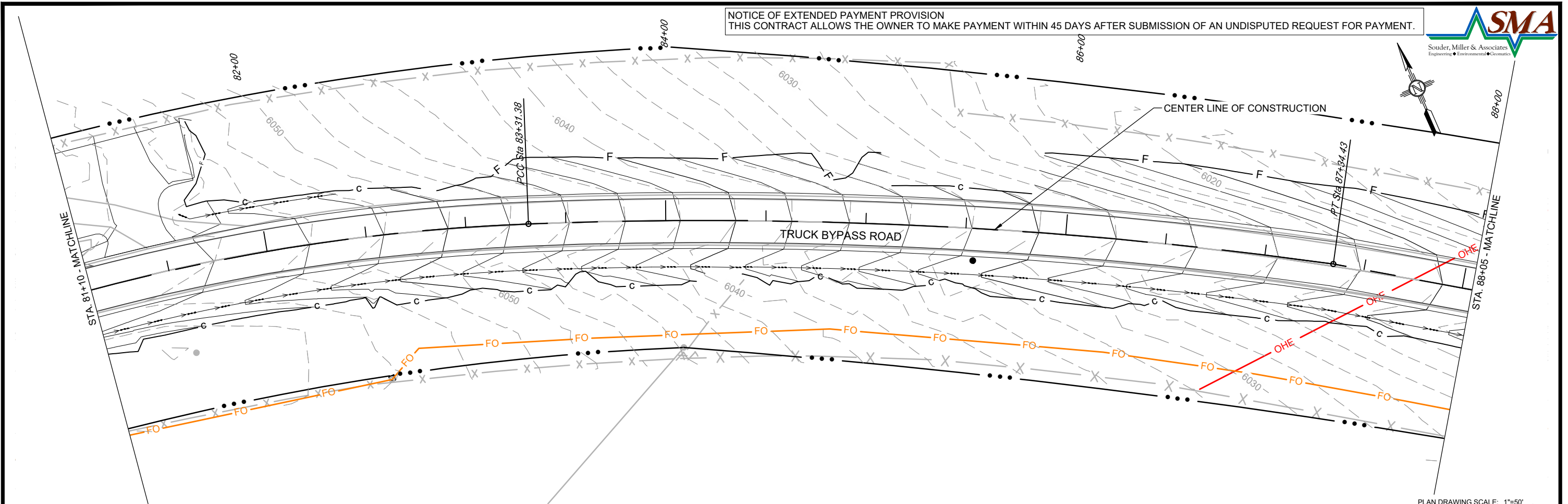
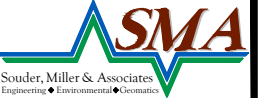
PLAN DRAWING SCALE: 1"=50'



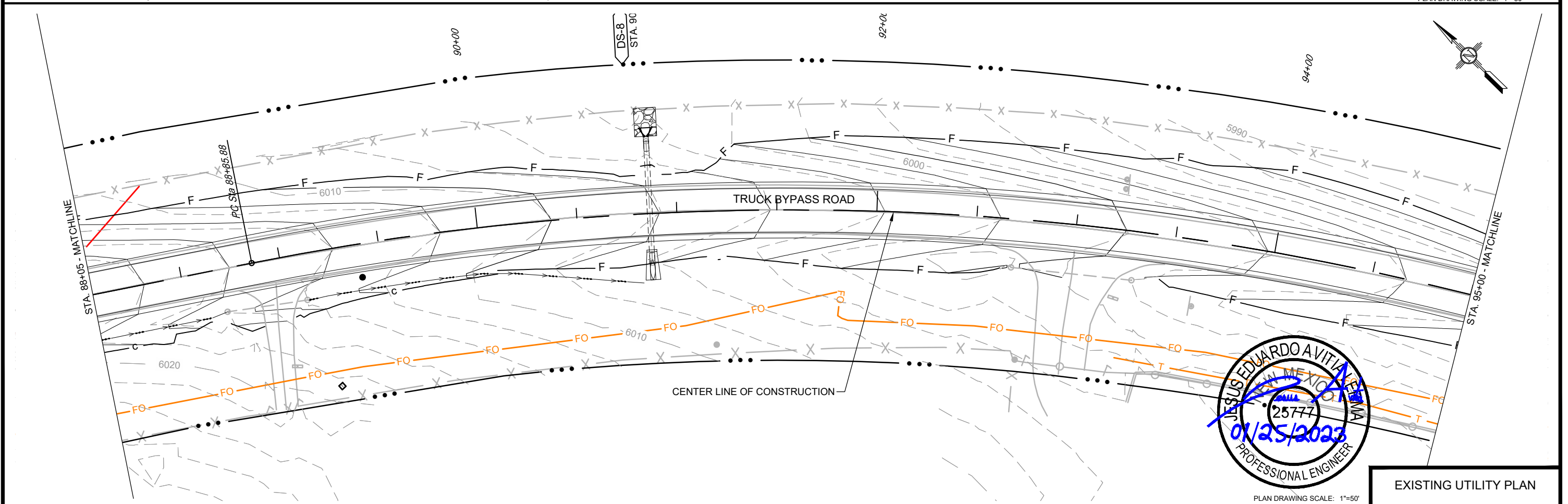
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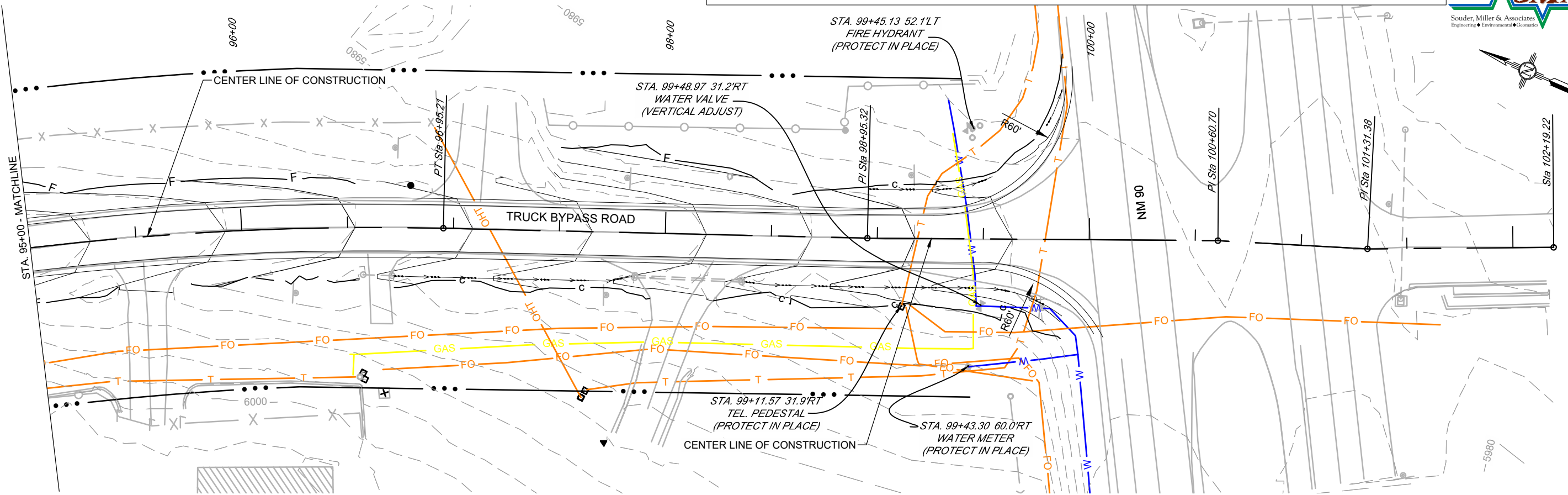
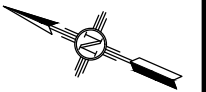
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