

M:\TRN\17-100-090-12\2_DISCIPLINES\3_SHEETS - ROADWAY\1\UTILITY CONTACTS NOTES TCE.DWG/26/2025

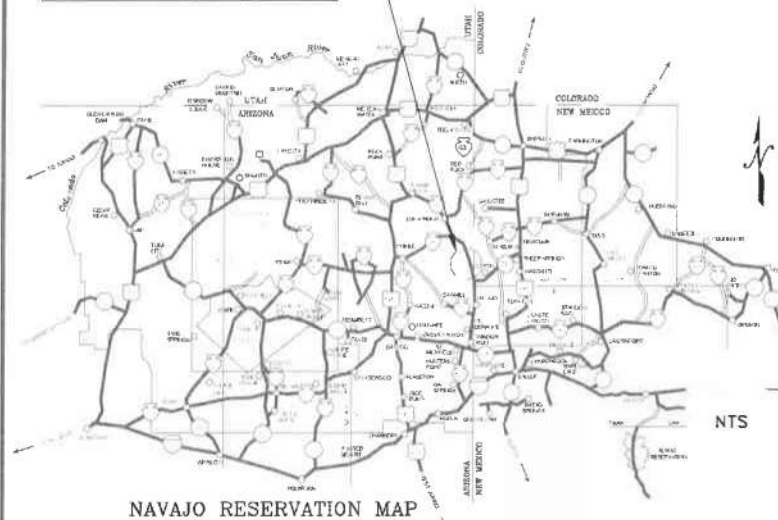
NAVAJO DIVISION OF TRANSPORTATION

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	1	120

PROJECT N12 (13-2) 1,2&4



PROJECT: N12 (13-2) 1, 2 & 4
AGENCY LINE TO WHEATFIELDS LAKE
GRADE, DRAIN, NEW BRIDGE, AND ASPHALT PAVING

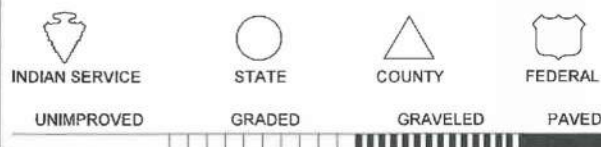


PROJECT LENGTH N12			
ROADWAY	STATION TO STATION	FEET	MILES
N12	B.O.P. - STA 889+76.38 TO E.O.P. STA 1269+68.50	37,992.12	7.20
TOTAL:		37,992.12	7.20

RIGHT-OF-WAY TABLE			
ROADWAY	STATION TO STATION	WIDTH (FEET)	
		LEFT	RIGHT
N12	B.O.P. - STA 889+76.38 TO E.O.P. STA 1269+68.50	75	75

DESIGN DATA N12	
STA 889+76.38 TO STA 1187+00.00	
STA 1216+00.00 TO STA 1269+68.50	
DESIGN SPEED	55 MPH
MINIMUM RADIUS	1060'
MAX. GRADIENT	7%
MIN. STOPPING SIGHT DISTANCE	495'
MIN. PASSING SIGHT DISTANCE	900'
MAX. SUPER ELEVATION (e max.)	6%
RIGHT-OF-WAY WIDTH, LT & RT	150'

DESIGN DATA N12	
STA 1187+00.00 TO STA 1216+00.00	
DESIGN SPEED	25 MPH
MINIMUM RADIUS	154'
MAX. GRADIENT	7%
MIN. STOPPING SIGHT DISTANCE	155'
MIN. PASSING SIGHT DISTANCE	450'
MAX. SUPER ELEVATION (e max.)	4%
RIGHT-OF-WAY WIDTH, LT & RT	150'



VICINITY MAP



SHEET INDEX	
SHT #	SHEET TITLE
1	COVER SHEET
2	GENERAL NOTES
3	UTILITY CONTACTS, NOTES, AND TCE
4	TYPICAL SECTIONS
5	TURNOUT DETAILS
6-9	HORIZONTAL CONTROL
10-12	SUMMARY OF QUANTITIES
13-47	PLAN AND PROFILE SHEETS
48	DETOUR
49	TEMPORARY TRAFFIC CONTROL
50	SIGN DETAILS
50-68	SIGNING AND STRIPING
69-75	TURNOUT PROFILES
76-91	NEW PIPE PROFILES
92	REC AREA PARKING
93-95	DRAINAGE DETAILS
96-115	STANDARD DETAILS
116-120	BRIDGE FOUNDATION DETAILS

STATE OR NATIONAL LINE	
COUNTY LINE	
TOWNSHIP OR RANGE LINE	
QUARTER SECTION LINE	
FOREST OR RESERVATION LINE	
HIGHWAY R/W LINE	
CONTROL OR ACCESS LINE	
UNFENCED PROPERTY	
SECTION AND QUARTER CORNERS	
POWER LINE OVERHEAD	
POWER POLE	
TELEPHONE LINE OVERHEAD	
TELEPHONE POLE	
TRAFFIC SIGN	
GUARDRAIL	
GUIDE POST	
STANDARD BARBED WIRE FENCE	
WOOD FENCE	
FABRIC WIRE FENCE	
CATTLE GUARD	
PIPE CULVERT	
CONCRETE BOX CULVERT	
GROUND LINE-EARTH	
GROUND LINE-ROCK	
EXISTING ROAD	
SIDE ROAD TURNOUT	
TREES AND SHRUBS	
CHANNEL OR DITCH	
DYKE OR LEVEE	
BANK PROTECTION	
RETAINING WALL	
WATERLINE	
GAS LINE	
IRRIGATION LINE	
SEWER LINE	
WATER VALVE	
SURVEY MONUMENT	
R/W MARKER	
CONSTRUCTION LIMIT-CUT & FILL	

RECOMMENDED:

PRINCIPAL ENGINEER
NAVAJO DIVISION OF TRANSPORTATION

APPROVED:

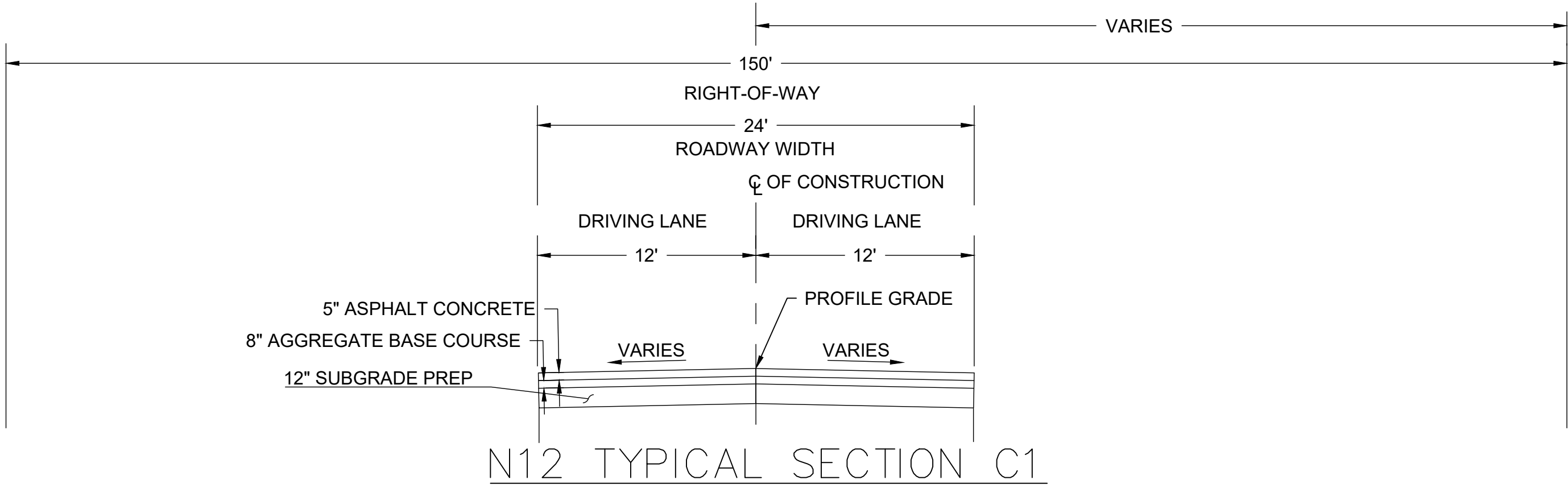
DIRECTOR
NAVAJO DIVISION OF TRANSPORTATION

DATE: 2/26/25

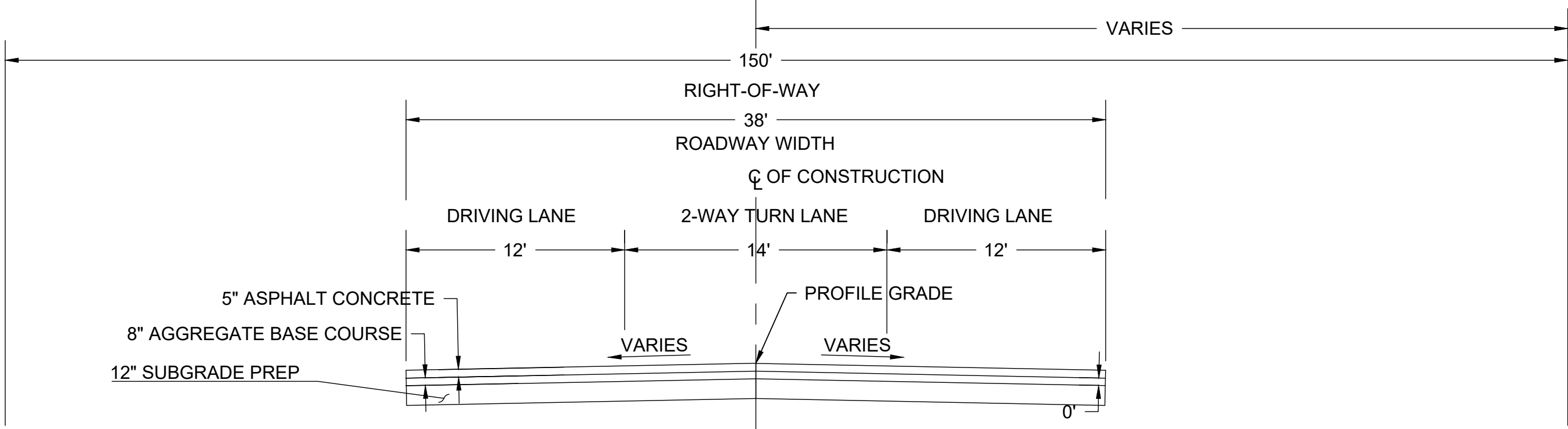
DATE: 2/24/2025

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REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	4	120

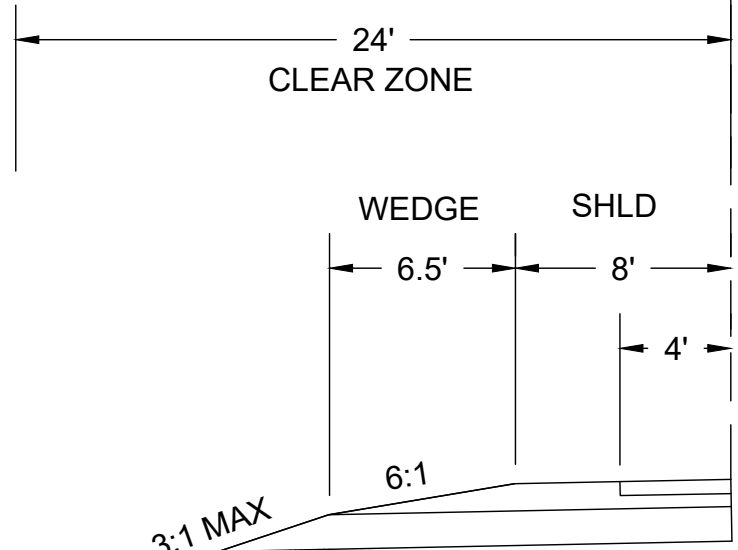


STA 889+76.38 TO STA 1214+50.00
STA 1231+00.00 TO STA 1269+68.50

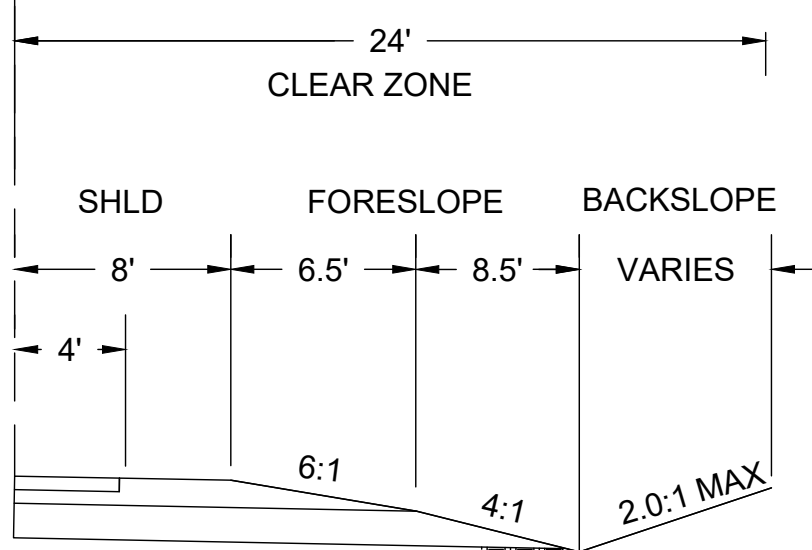


N12 TYPICAL SECTION C2

STA 1214+50.00 TO STA 1231+00.00



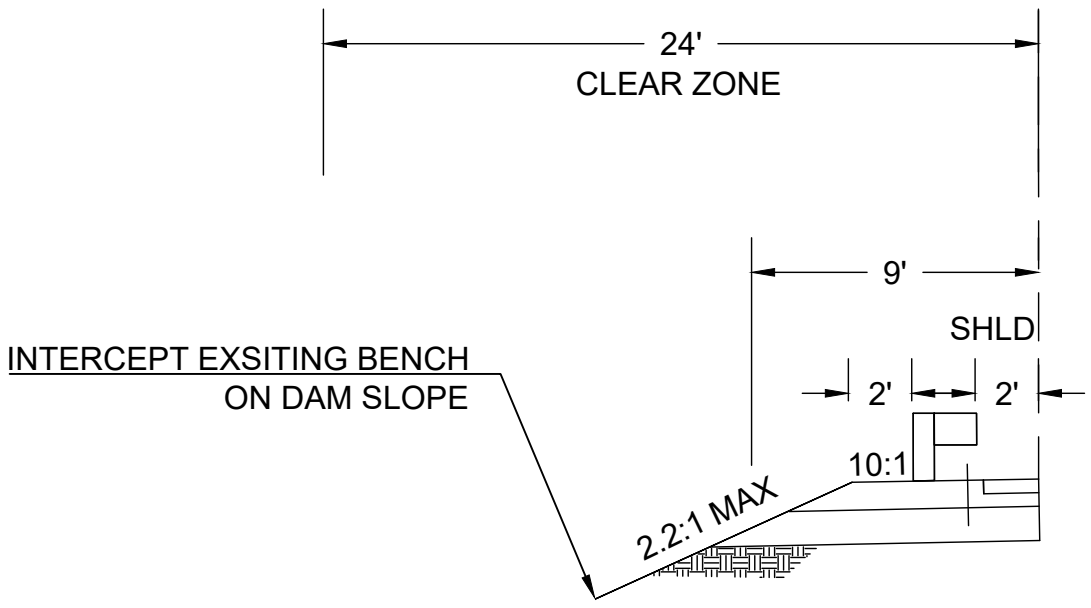
L1



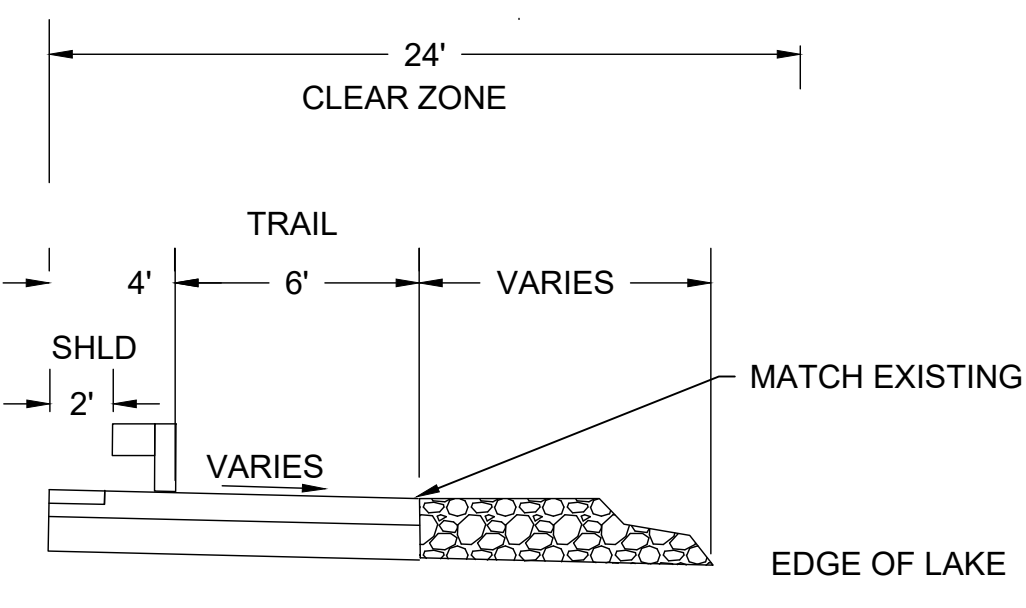
R1

FILL
STA 889+76.38 TO STA 891+53.00
STA 898+22.00 TO STA 905+00.00
STA 906+00.00 TO STA 924+90.00
STA 926+00.00 TO STA 932+74.00
STA 944+45.00 TO STA 945+30.00
STA 948+50.00 TO STA 1047+75.00
STA 1048+50.00 TO STA 1063+50.00
STA 1072+84.00 TO STA 1196+00.00
STA 1211+45.00 TO STA 1269+68.50

CUT
STA 889+76.38 TO STA 891+53.00
STA 896+27.00 TO STA 938+20.00
STA 940+60.00 TO STA 1189+57.00
STA 1211+60.00 TO STA 1269+68.50

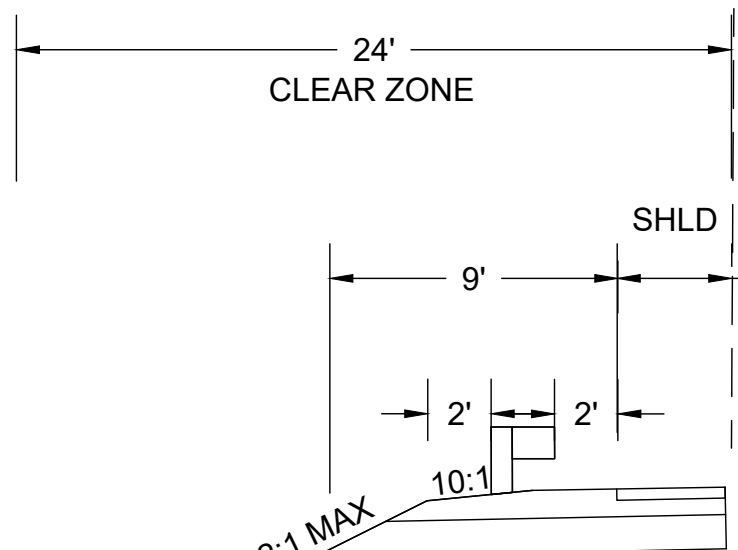


L4

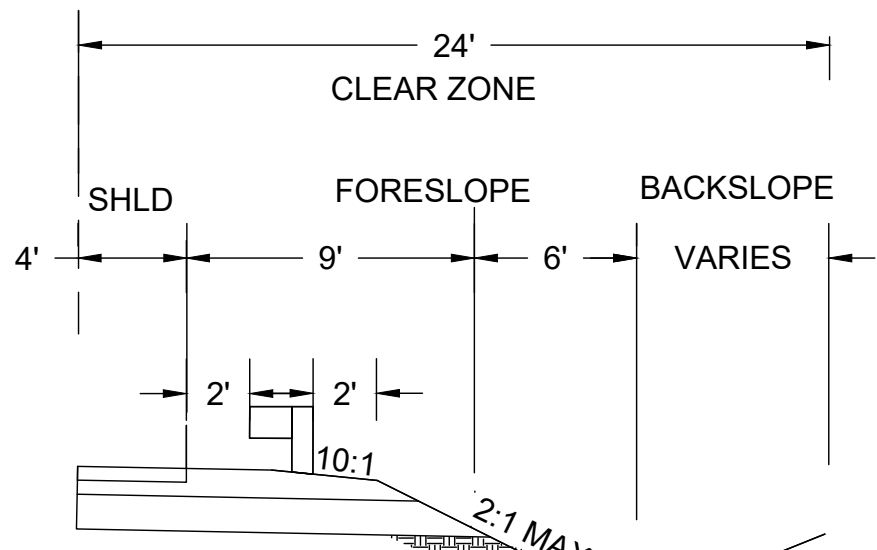


R4

STA 1196+00.00 TO STA 1211+44.00



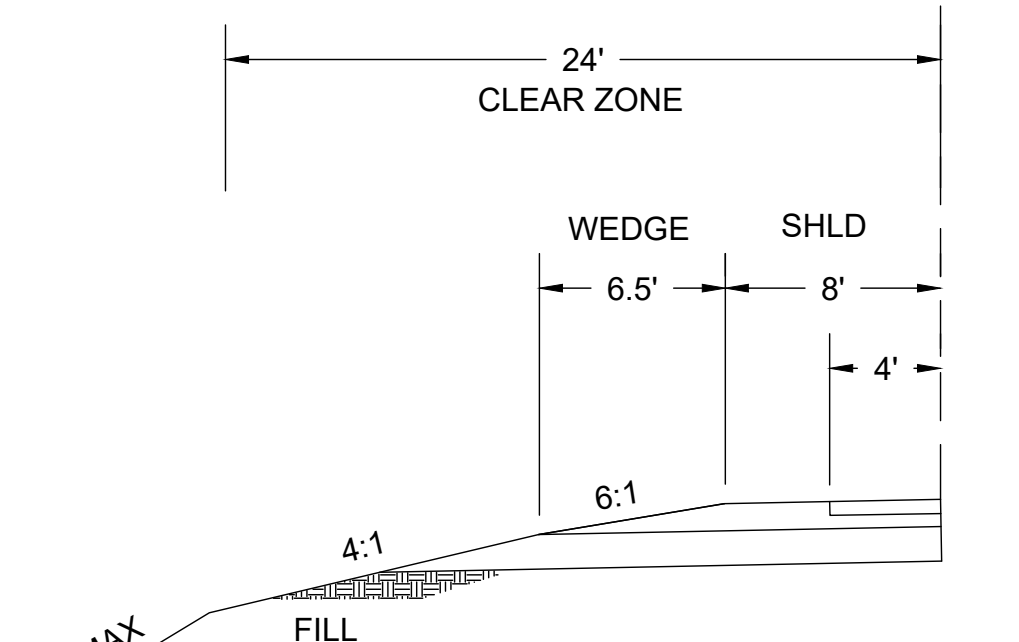
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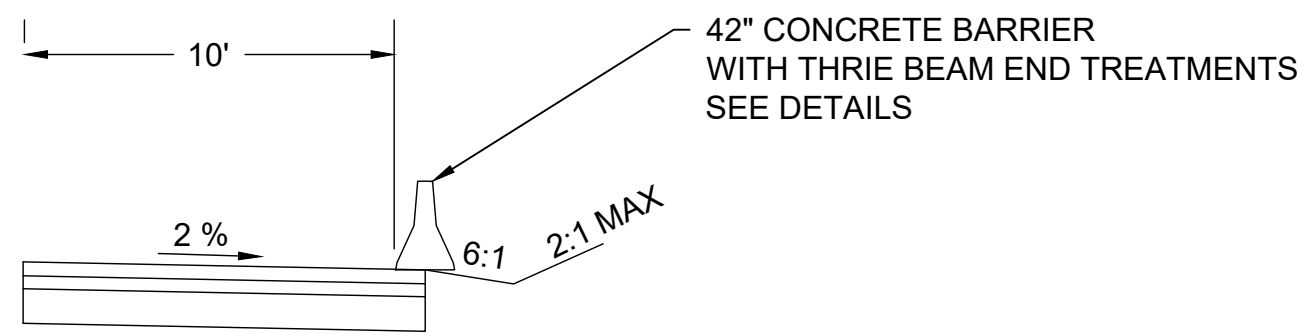
R2

FILL
STA 892+57.00 TO STA 894+28.00
STA 895+43.00 TO STA 896+22.00
STA 1196+00.00 TO STA 1199+70.00
STA 1205+30.00 TO STA 1211+45.00

CUT
STA 891+53.00 TO STA 894+28.00
STA 895+43.00 TO STA 896+27.00
STA 1189+57.00 TO STA 1195+19.00
STA 1195+83.00 TO STA 1196+00.00

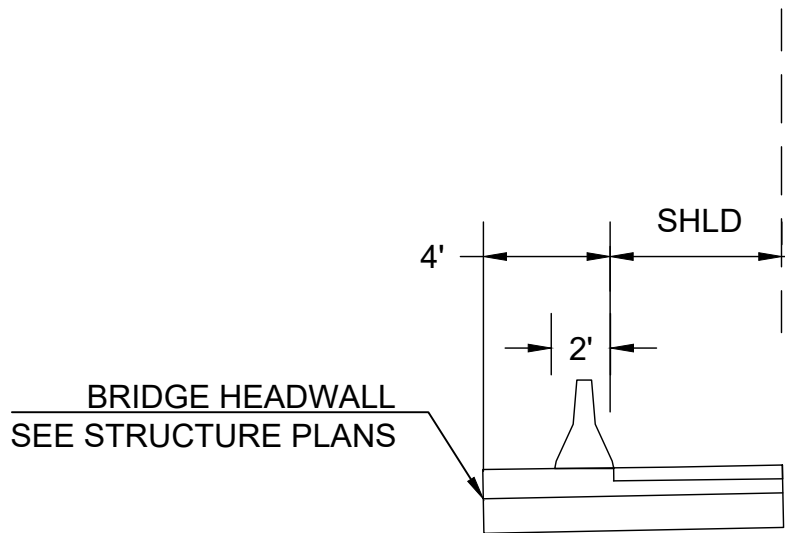


L5

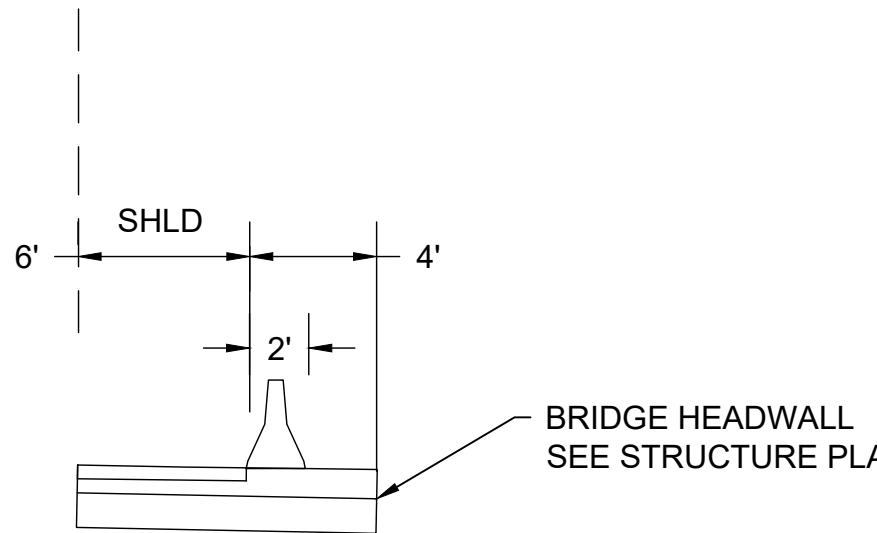


R5

STA 938+20.00 TO 940+60.00



L3



R3

STA 894+28.00 TO STA 895+43.00

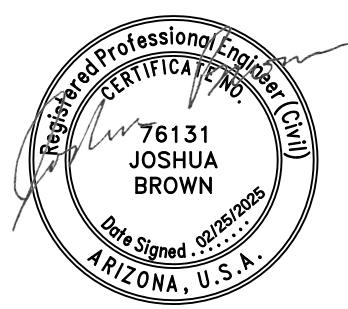
STA 894+28.00 TO STA 895+43.00

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY
410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701

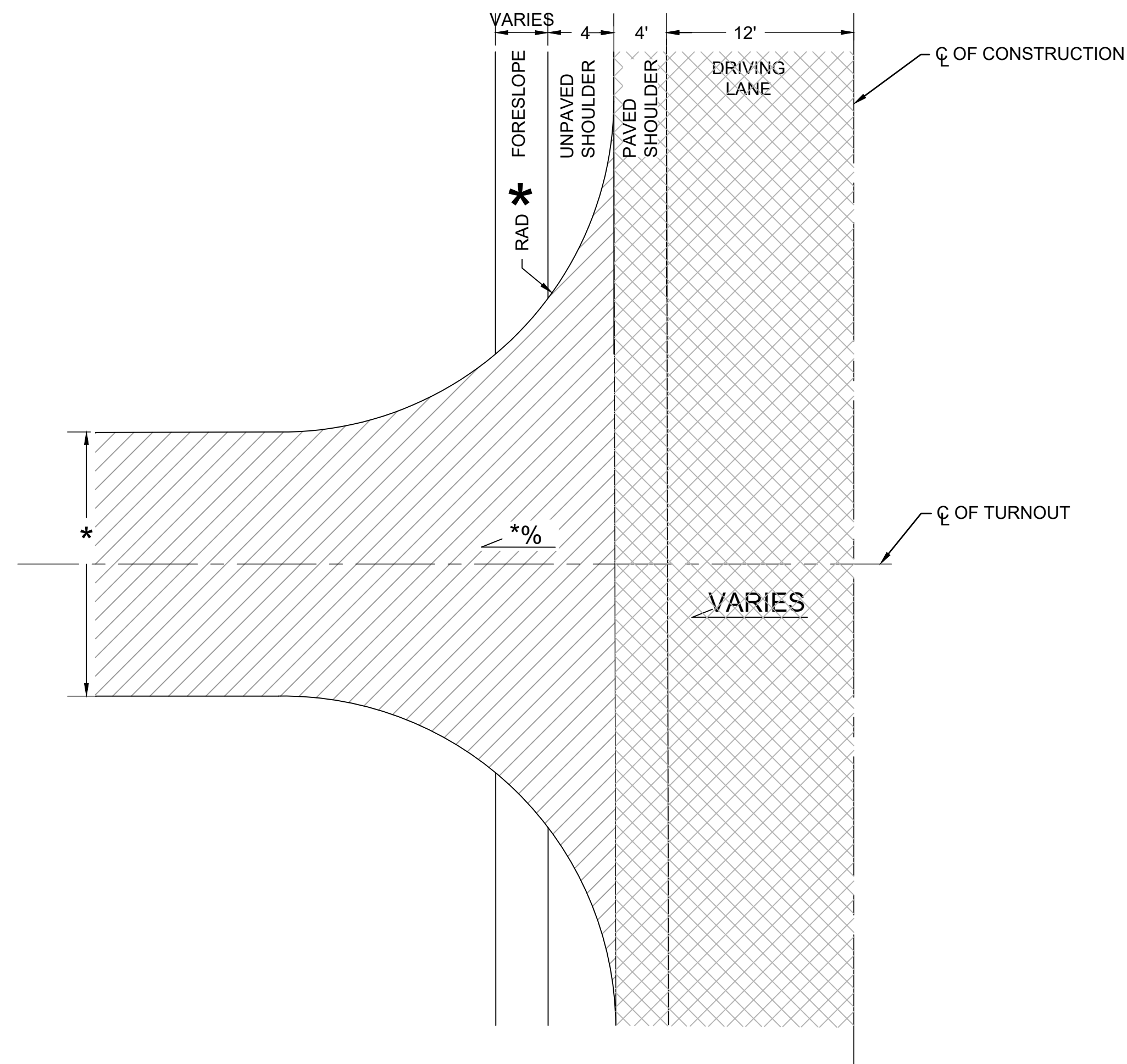
ROUTE N12

TYPICAL SECTIONS



REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG	PROJECT NO.	SHEET NO.	
CHECK	ASF	N12(13-2) 1,2,&4	4	OF 120

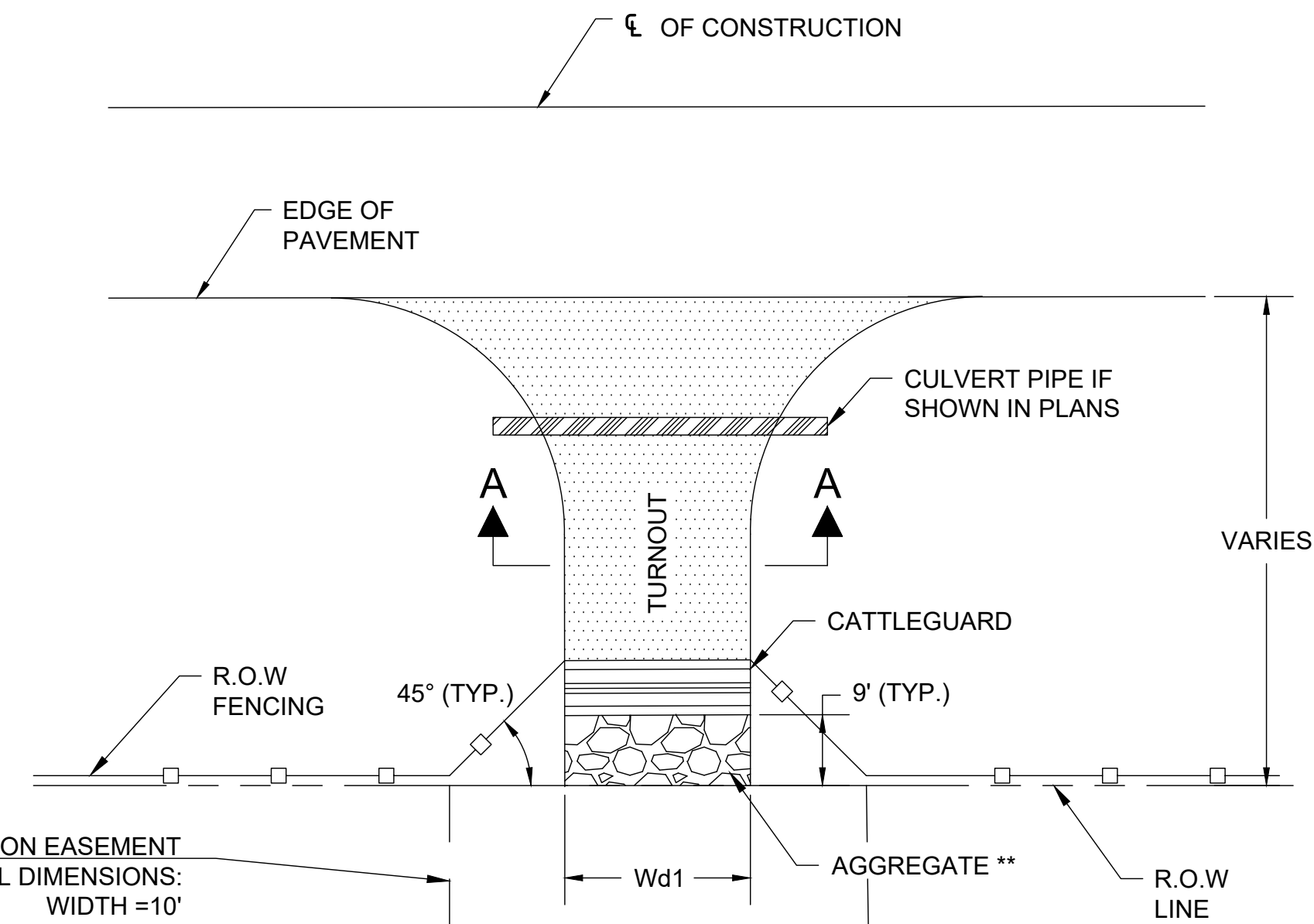
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	5	120



TYPICAL TURNOUT DETAIL (PAVING LIMITS)

LEGEND

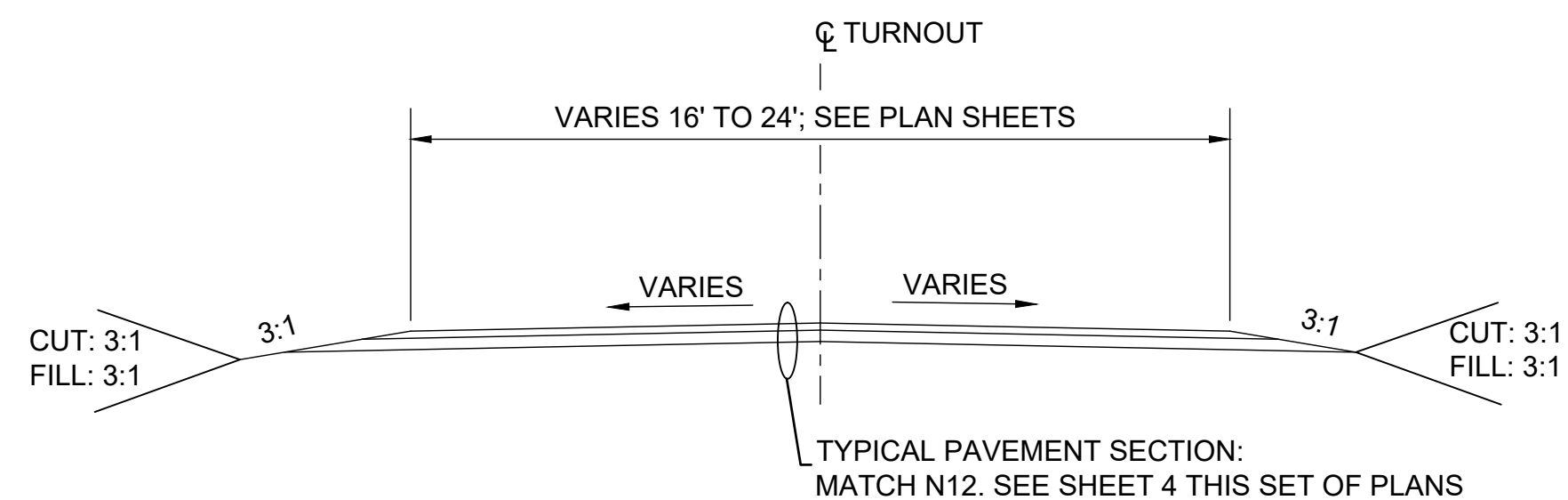
- *** SEE ROADWAY PLAN AND PROFILE SHEETS FOR TURNOUT WIDTHS, RADII CALLOUTS.
SEE TURNOUT PROFILE SHEETS FOR PROFILE GRADES AND STATIONING.
-  LIMITS OF DRIVEWAY PAVING
-  LIMITS OF ROADWAY PAVING



TYPICAL TURNOUT

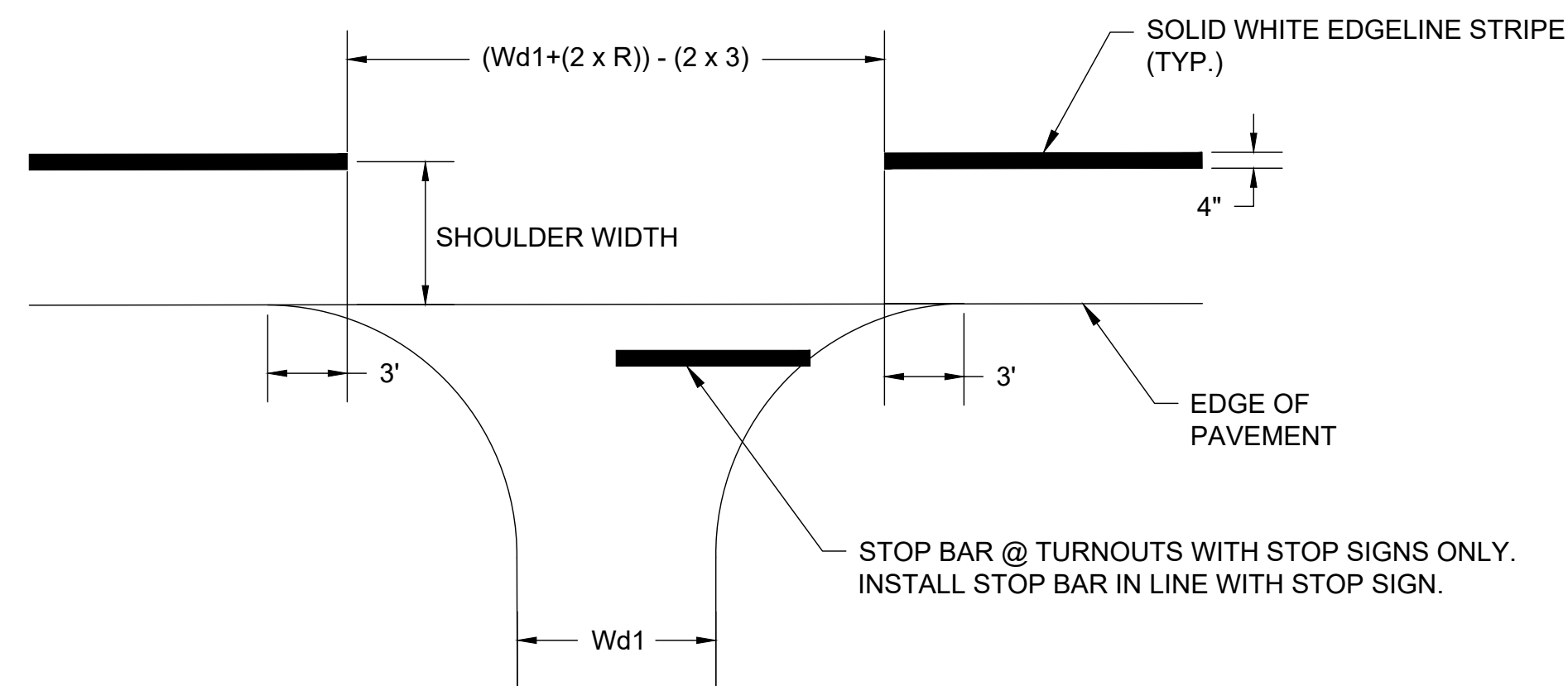
NOTE: IN THE EVENT THE TURNOUT CATTLE GUARD IS LOCATED WITHIN THE TURNOUT RADII, SO THAT THE ASPHALT/GRAVEL/DIRT WIDTH IS NARROWER ON THE BACK SIDE OF THE CATTLE GUARD THAN ON THE FRONT SIDE, THE ASPHALT/GRAVEL/ DIRT WIDTH ON THE BACK SIDE SHALL BE WIDENED TO MATCH THE WIDTH ON THE FRONT SIDE AND TAPERED BACK TO THE STANDARD ROADWAY/DRIVEWAY WIDTH IN 16'. THIS WORK SHALL BE INCLUDED IN THE EARTHWORK, GRAVEL, ASPHALT, ETC. BID ITEMS AS APPROPRIATE.

AGGREGATE LIMITS MAY EXTEND BEYOND ROW TO TIE IN NEW TURNOUT TO EXISTING ACCESS. SEE TURNOUT PROFILES AND PLANS.



SECTION A-A

NOTE: TYPICAL TURNOUT DIMENSIONS UNLESS NOTED OTHERWISE ON PLANS.

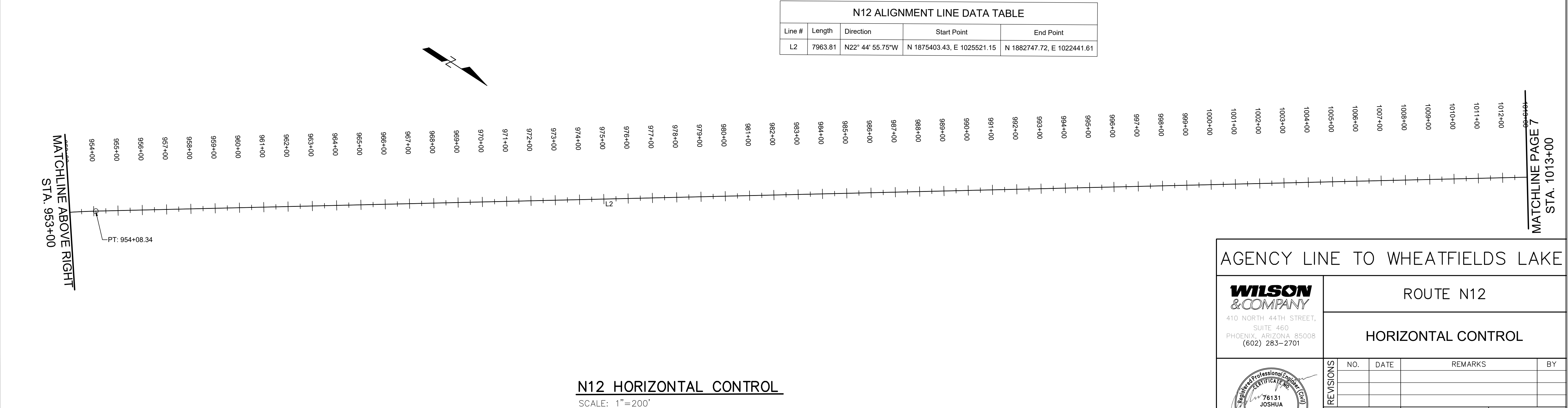
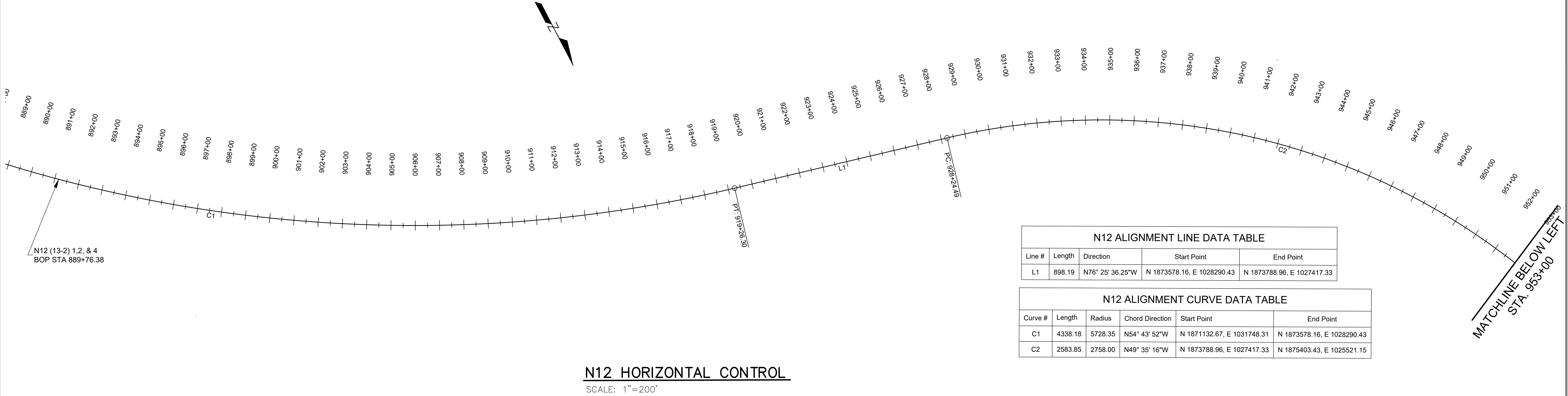


TYPICAL PAVEMENT MARKING @ TURNOUT

AGENCY LINE TO WHEATFIELDS LAKE				
WILSON & COMPANY 410 NORTH 44TH STREET, SUITE 460 PHOENIX, ARIZONA 85008 (602) 283-2701		ROUTE N12		
TURNOUT DETAILS				
REVISIONS	NO.	DATE	REMARKS	BY
DESIGN		JEB		WCEA NO. 1710009012
DRAWING		ERG		PROJECT NO.
CHECK		ASF		N12(13-2) 1,2,&4
				DATE
				2025
				SHEET NO.
				5 OF 120

M:\TRN\17-100-090-12\2_DISCIPLINES\3_SHEETS - ROADWAY\3_SHEETS\3_HORIZONTAL CONTROL 4.DWG2/25/2025 11:19

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	6	120



AGENCY LINE TO WHEATFIELDS LAKE

410 NORTH 44TH STREET,
SUITE 460
PHOENIX, ARIZONA 85008
(602) 283-2701

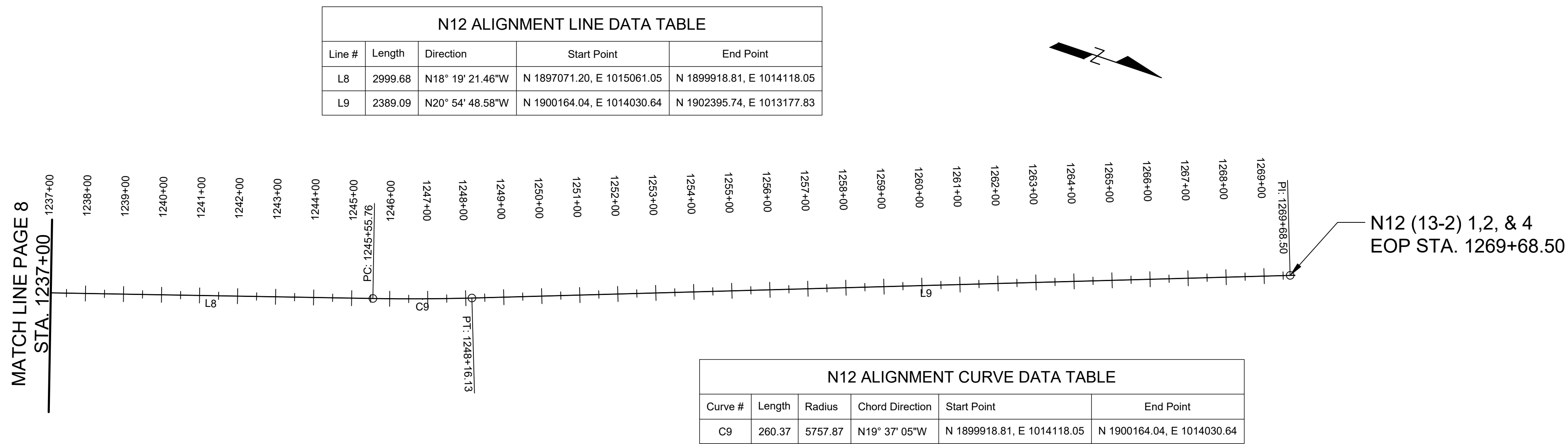
ROUTE N12

HORIZONTAL CONTROL

REVISIONS	NO.	DATE	REMARKS	BY

DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG	PROJECT NO.	SHEET NO.	
CHECK	ASF	N12(13-2) 1,2,&4	6 OF 120	





N12 HORIZONTAL CONTROL

SCALE: 1"=200'

WILSON & COMPANY 410 NORTH 44TH STREET, SUITE 460 PHOENIX, ARIZONA, 85008 (602) 283-2701	ROUTE N12 HORIZONTAL CONTROL
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REVISIONS	NO.	DATE	REMARKS	BY

DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG	PROJECT NO.	SHEET NO.	
CHECK	ASF	N12(13-2) 1,2,&4	9	OF 120

M:\TRN\17-100-090-12\2_DISCIPLINES\SHEETS\3_SHEETS - ROADWAY\SHEET_4\QUANTITIES.DWG2/25/2025 11:19 PM

N12 Agency Line to Wheatfields Lake AZ SUMMARY OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANT
15101-0000	MOBILIZATION	LPSM	1
15201-0000	CONSTRUCTION SURVEY & STAKING	LPSM	1
15701-0000	SOIL EROSION CONTROL	LPSM	1
20102-0000	CLEARING AND GRUBBING	LPSM	1
20304-1000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LPSM	1
20401-0000	ROADWAY EXCAVATION	CUYD	144,550
20403-0000	UNCLASSIFIED BORROW	CUYD	600
20410-0000	SELECT BORROW	CUYD	3,800
21301-0000	SUBGRADE STABILIZATION (12")	SQYD	232,200
25101-0205	PLACED RIPRAP, METHOD A, CLASS 2, WIRE ENCLOSED	CUYD	556
25110-0100	GROUTED RIPRAP, METHOD A, CLASS 1, TYPE M RIPRAP	CUYD	12
25110-0300	GROUTED RIPRAP, METHOD A, CLASS 3	CUYD	58
25110-0700	GROUTED RIPRAP, METHOD A, CLASS 7	CUYD	20
25110-0900	GROUTED RIPRAP, METHOD A, CLASS 9	CUYD	12
25701-0100	CONTRACTOR FURNISHED GABION WALL DESIGN	LPSM	1
30101-0000	AGGREGATE BASE	TON	100,650
40201-0100	ASPHALT CONCRETE PAVEMENT, MARSHALL MIX, CLASS B	TON	39,900
41101-1000	PRIME COAT MATERIAL	TON	436
41201-0000	TACK COAT	TON	48
55201-0100	STRUCTURAL CONCRETE, CLASS A	CUYD	62
55401-1000	REINFORCING STEEL, GRADE 420	LB	1,608
60201-0800	24-INCH PIPE CULVERT	LNFT	3,534
60201-0900	30-INCH PIPE CULVERT	LNFT	1,069
60201-1000	36-INCH PIPE CULVERT	LNFT	312
60201-1200	48-INCH PIPE CULVERT	LNFT	102
60201-1400	60-INCH PIPE CULVERT	LNFT	208
60210-0800	END SECTION FOR 24-INCH PIPE CULVERT	EACH	100
60210-0900	END SECTION FOR 30-INCH PIPE CULVERT	EACH	30
60210-1000	END SECTION FOR 36-INCH PIPE CULVERT	EACH	8
60210-1200	END SECTION FOR 48-INCH PIPE CULVERT	EACH	2
60210-1400	END SECTION FOR 60-INCH PIPE CULVERT	EACH	4
61701-5000	GUARDRAIL SYSTEM SGR04b, TYPE PDE02 W/MSKT-TL3-8 TERMINAL & THRIE E	LNFT	4,043
61801-0000	CONCRETE BARRIER	LNFT	470
61902-0000	PEDESTRIAN CATTLE GUARD	EACH	2
61902-1400	GATE, METAL, TYPE 1, 16" WIDTH	EACH	7
61902-2800	GATE, BARBED WIRE, 3 STRAND, 16" WIDTH	EACH	2
61903-0300	CATTLE GUARD, 16 FEET	EACH	18
61903-0700	CATTLE GUARD, 24 FEET	EACH	10
62510-1000	SEEDING, DRY METHOD	ACRE	79
63304-0400	SIGNS, STEEL PANELS, TYPE 9 SHEETING	SQFT	595
63305-0200	POSTS, STEEL, 2-INCH DIAMETER	LNFT	4,244
63308-2000	OBJECT MARKER, TYPE 2	EACH	110
63309-0010	DELINEATOR, TYPE 1a	EACH	86
63309-0020	DELINEATOR, TYPE 1b	EACH	339
63401-1510	PAVEMENT MARKINGS, TYPE H, SOLID YELLOW	LNFT	25,031
63401-1520	PAVEMENT MARKINGS, TYPE H, SOLID WHITE	LNFT	73,848
63401-1524	PAVEMENT MARKINGS, TYPE H, SOLID WHITE, 24"	LNFT	360
63401-1610	PAVEMENT MARKINGS, TYPE H, BROKEN YELLOW	LNFT	7,773
63405-2900	PAVEMENT MARKINGS, TYPE H, TURN ARROW	EACH	4
63501-0000	TEMPORARY TRAFFIC CONTROL	LPSM	1
Pre-Fabricated Arch Bridge			
20301-0400	REMOVAL OF BRIDGE	LPSM	1
20801-0000	STRUCTURE EXCAVATION	CUYD	1,387
20803-0000	STRUCTURAL BACKFILL	CUYD	1,762
25110-2000	GROUTED RIPRAP, CLASS 2	CUYD	193
55101-0200	CONCRETE FILLED STEEL PIPE PILE (18"), IN PLACE	LNFT	1,320
55104-1000	DYNAMIC PILE LOAD TEST	EACH	4
55115-1000	PREBORING	LNFT	1,280
55401-2000	REINFORCING STEEL, EPOXY COATED	LBS	19,395
56302-1000	PAINTING, CONCRETE STRUCTURE	SQFT	4,622
56501-0300	STRUCTURAL CONCRETE CLASS A (AE) (4000 psi)	CUYD	131
58001-0000	CONTECH PRECAST BRIDGE	LPSM	1

			PAVEMENT MARKINGS, SOLID YELLOW, TYPE "H"	PAVEMENT MARKINGS, SOLID WHITE TYPE "H"	24" SOLID WHITE STOP BAR (10' LENGTH)	PAVEMENT MARKINGS, BROKEN YELLOW, TYPE "H"	PAVEMENT MARKINGS, TYPE "H" LEFT TURN ARROW		
STATION	TO	STATION	LOCATION	63401-1510	63401-1520	63401-1524	63401-1610	63405-2900	NOTE
				LF	LF	LF	LF	EACH	
889+76.00		1269+68.50	LT		37993				
889+76.00		1269+68.50	RT		37993				
889+76.00		900+00.00	LT	1024					
889+76.00		900+00.00	RT				256		
900+00.00		910+00.00	LT	1000					
900+00.00		910+00.00	RT	1000					
910+00.00		919+00.00	LT	900					
910+00.00		919+00.00	RT				225		
919+00.00		951+50.00	CL				813		
951+50.00		953+00.00	LT				38		
951+50.00		953+00.00	RT	150					
953+00.00		960+00.00	CL				175		
960+00.00		962+00.00	LT	200					
960+00.00		962+00.00	RT				50		
962+00.00		969+50.00	CL				188		
969+50.00		975+00.00	LT				138		
969+50.00		975+00.00	RT	550					
975+00.00		978+00.00	CL				75		
978+00.00		984+00.00	LT	600					
978+00.00		984+00.00	RT				150		
984+00.00		989+00.00	CL				125		
989+00.00		992+00.00	LT				75		
989+00.00		992+00.00	RT	300					
992+00.00		998+00.00	CL				150		
998+00.00		1001+00.00	LT	300					
998+00.00		1001+00.00	RT				75		
1001+00.00		1029+50.00	CL				713		
1029+50.00		1035+00.00	LT				138		
1029+50.00		1035+00.00	RT	550					
1035+00.00		1038+00.00	CL				75		
1038+00.00		1045+00.00	LT	700					
1038+00.00		1045+00.00	RT				175		
1045+00.00		1074+00.00	CL				725		
1074+00.00		1080+50.00	LT				163		
1074+00.00		1080+50.00	RT	650					
1080+50.00		1083+00.00	CL				63		
1083+00.00		1089+00.00	LT	600					
1083+00.00		1089+00.00	RT				150		
1089+00.00		1090+50.00	LT	150					
1089+00.00		1090+50.00	RT	150					
1090+50.00		1100+00.00	LT	950					
1090+50.00		1100+00.00	RT				238		
1100+00.00		1173+50.00	CL				1838		
1173+50.00		1214+50.00	LT	4100					
1173+50.00		1214+50.00	RT	4100					
1214+50.00		1217+50.00	LT	600					TURN BAY
1214+50.00		1217+50.00	RT	600					TURN BAY
1217+50.00		1219+10.00	LT	320					TURN BAY
1217+75.00		1219+10.00	RT		405				12" WHITE
1217+75.00		1219+10.00	CL					2	
1219+75.00		1220+75.00	RT		300				12" WHITE
1219+75.00		1220+75.00	CL					2	
1219+75.00		1221+40.00	RT	330					TURN BAY
1221+40.00		1231+00.00	LT	1920					TURN BAY
1221+40.00		1231+00.00	RT	1920					TURN BAY
1231+00.00		1232+67.00	LT	167					
1231+00.00		1232+67.00	RT				42		
1232+67.00		1247+00.00	CL				358		
1247+00.00		1253+00.00	LT				150		
1247+00.00		1253+00.00	RT	600					
1253+00.00		1256+00.00	CL				75		
1256+00.00		1262+00.00	LT	600					
1256+00.00		1262+00.00	RT				150		
1262+00.00		1269+69.00	CL				192		
Turnouts	36				-2842	360			DWY GAP
				25031	73848	360	7773	4	

SURFACING SCHEDULE																			
STATION TO STATION		LOCATION	DESCRIPTION		21301-0000			30101-0000				40201-0100				41201-0000		41101-1000	
					SUBGRADE STABILIZATION			AGGREGATE BASE				ASPHALT CONCRETE PAVEMENT, MARSHALL MIX, CLASS B				TACK COAT		PRIME COAT	
					LENGTH (FT)	WIDTH (FT)	AREA (SY)	WIDTH (FT)	DEPTH (IN)	(SY)	(TON)	WIDTH (FT)	DEPTH (IN)	(SY)	(TON)	WIDTH (FT)	(TON)	WIDTH (FT)	(TON)
N12																			
889+76.38	1269+68.50	LT & RT	2-12' DRIVING LANES, 2-8" SHOULDER/4' TAPERS	37992	40	168854	40	8	168854	74483	32.00	5.00	135083	37523	32.00	45.03	32.00	316.6	
889+76.38	1269+68.50	LT & RT		37992	13	54878	13	8	54878	24207					0.00	0.00	13.00	102.9	
1189+40.00	1196+25.00	RT	WHEATFIELDS REC AREA PAVING			3996			3996	0	0.00	5.00	3996	1110	0.00	1.33	0.00	7.5	
					AREA (SF)														
896+64	16' Wide	RT	TO-1		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
928+00	16' Wide	LT	TO-2		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
928+68	16' Wide	RT	TO-3		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
959+42	16' Wide	RT	TO-4		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
980+92	16' Wide	LT	TO-5		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
987+95	16' Wide	RT	TO-6		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1039+96	16' Wide	RT	TO-7		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1044+51	16' Wide	LT	TO-8		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1050+54	16' Wide	RT	TO-9		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1061+18	24' Wide	RT	TO-10		1444	160		8	160	71		5.00	160	45	16.00	0.05	16.00	0.3	
1063+24	16' Wide	LT	TO-11		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1093+15	16' Wide	RT	TO-12		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1101+58	16' Wide	RT	TO-13		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1105+19	16' Wide	LT	TO-14		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1110+50	16' Wide	LT	TO-15		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1113+45	16' Wide	RT	TO-16		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1126+25	16' Wide	RT	TO-17		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1140+01	24' Wide	LT	TO-18		1444	160		8	160	71		5.00	160	45	16.00	0.05	16.00	0.3	
1148+22	16' Wide	RT	TO-19		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1168+32	16' Wide	RT	TO-20		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1190+15	16' Wide	LT	TO-21		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1191+32	24' Wide	LT	TO-22		1444	160		8	160	71		5.00	160	45	16.00	0.05	16.00	0.3	
1195+55	24' Wide	LT	TO-23		1444	160		8	160	71		5.00	160	45	16.00	0.05	16.00	0.3	
1206+95	24' Wide	LT	TO-24		1444	160		8	160	71		5.00	160	45	16.00	0.05	16.00	0.3	
1211+85	24' Wide	RT	TO-25		1444	160		8	160	71		5.00	160	45	16.00	0.05	16.00	0.3	
1215+52	24' Wide	RT	TO-26		1444	160		8	160	71		5.00	160	45	16.00	0.05	16.00	0.3	
1219+48	24' Wide	RT	TO-27		1444	160		8	160	71		5.00	160	45	16.00	0.05	16.00	0.3	
1219+48	24' Wide	LT	TO-28		1444	160		8	160	71		5.00	160	45	16.00	0.05	16.00	0.3	
1227+87	16' Wide	RT	TO-29		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1235+29	16' Wide	LT	TO-30		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1240+49	24' Wide	RT	TO-31		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1246+73	16' Wide	LT	TO-32		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1249+25	16' Wide	RT	TO-33		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
1261+22	16' Wide	LT	TO-34		1058	118		8	118	52		5.00	118	33	16.00	0.04	16.00	0.2	
N12 Estimate						232200			100650				39900			48		436	

M:\TRN\17-100-090-12\2_DISCIPLINES\3_SHEETS\3_SHEETS - ROADWAY\SHEET_4\QUANTITIES.DWG2/25/2025 11:19 PM

							REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS							
							NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	11	120							
CATTLE GUARDS				FENCE GATES				63304-0400			63305-0200									
Station	RT/LT	61903-0300	61903-0700	61902-0000	61902-1400	61902-2600	SIGN CODE	SIGN AREA (SF)	NO. OF SIGNS	SIGNS, STEEL PANELS, TYPE 9 SHEETING (SQFT)						POSTS, STEEL, 2-INCH DIAMETER		NOTES		
		2-Unit CG (16') no gate	3-Unit CG (24') no gate	PEDESTRIAN CATTLE GUARD	GATE, METAL, TYPE 1, 16' WIDTH	GATE, BARBED WIRE, 5 STRAND, 16' WIDTH					POST SIZE	TOTAL INSTALLS	POST SIZE SIGN AREA	POST SIZE SIGN AREA	POST SIZE SIGN AREA	NO.	TOTAL LENGTH			
896+64	RT	1			1		R1-1	6	35	219	1.75	35	219			35	420.00	stop		
928+00	LT				1		R2-1	5	8	40	1.75	8	40			8	96.00	speed limit		
928+68	RT				1		R4-1	3	17	51	1.75	17	51			17	187.00	do not pass		
959+42	RT						W11-4	6	1	6	1.75	1	6			1	12.00	cow		
980+92	LT				1		W14-2	6	1	6	1.75	1	6			1	12.00	no outlet		
987+95	RT				1		W14-3	8	17	142	2.25	17		142	17	374.00	no pass zone			
1039+96	RT	1			1		W1-5L	6	1	6	1.75	1	6			1	12.00	curves ahead		
1044+51	LT				1		W2-2L	6	1	6	1.75	1	6			1	12.00	turnout left		
1050+54	RT	1					W2-2R	6	1	6	1.75	1	6			1	12.00	turnout rt		
1061+18	RT		1				W1-2R	6	5	31	1.75	5	31			5	60.00	right bend		
1063+24	LT	1					W1-2L	6	4	25	1.75	4	25			4	48.00	left bend		
1093+15	RT	1					W1-4L	6	2	13	1.75	2	13			2	24.00	veer left		
1101+58	RT	1				1	W3-5	6	2	13	1.75	2	13			2	24.00	reduce speed ahead		
1105+19	LT	1				1	D10-2	2	12	23	1.75	12	23			12	144.00	mile markers		
1110+50	LT	1					M1-6	3	2	5	1.75	2	5			2	22.00	C270 rd sign		
1113+45	RT	1					D3-1	2	2	4	1.75	2	4			2	20.00	road signs		
1126+25	RT	1					SUBTOTAL			595							1479			
1140+01	LT		1				N12 USE			595										
1149+22	RT	1																	63305-0200	
1168+32	RT	1			1 *		SIGN CODE	SIGN AREA (SF)	NO. OF SIGNS	SIGNS, STEEL PANELS, TYPE 9 SHEETING (SQFT)						POSTS, STEEL, 2-INCH DIAMETER		NOTES		
1190+15	LT	1				POST SIZE <th>TOTAL INSTALLS</th> <th>POST SIZE SIGN AREA</th> <th>POST SIZE SIGN AREA</th> <th>POST SIZE SIGN AREA</th> <th>NO.</th> <th>TOTAL LENGTH</th>					TOTAL INSTALLS	POST SIZE SIGN AREA	POST SIZE SIGN AREA	POST SIZE SIGN AREA	NO.	TOTAL LENGTH				
1191+32	LT		1				OM2		110	0		110				110	1100.00	culvert markers		
1195+55	LT		1																63305-0200	
1206+95	LT		1				SIGN CODE	SIGN AREA (SF)	NO. OF SIGNS	SIGNS, STEEL PANELS, TYPE 9 SHEETING (SQFT)						POSTS, STEEL, 2-INCH DIAMETER		NOTES		
1211+85	RT		1	2		POST SIZE <th>TOTAL INSTALLS</th> <th>POST SIZE SIGN AREA</th> <th>POST SIZE SIGN AREA</th> <th>POST SIZE SIGN AREA</th> <th>NO.</th> <th>TOTAL LENGTH</th>					TOTAL INSTALLS	POST SIZE SIGN AREA	POST SIZE SIGN AREA	POST SIZE SIGN AREA	NO.	TOTAL LENGTH				
1215+52	RT		1																	
1219+48	RT		1																	
1219+48	LT		1																	
1227+87	RT	1																		
1235+29	LT	1																		
1240+40	RT		1																	
1246+73	LT	1																		
1249+25	RT	1																		
1261+22	LT	1																		
		18	10	2	7	2														

Drop Structure at Dam						
25110-0300	GROUTED RIPRAP, METHOD A, CLASS 3					
ID	W1	L1	W2	L2	Area (SF)	Volume (CY)
Drop Struct1	22.00	5.00	22.00	9.20	312.40	11.57
Drop Struct2	22.00	5.00	22.00	9.20	312.40	11.57
Drop Struct3	22.00	5.00	22.00	9.20	312.40	11.57
Drop Struct4	22.00	5.00	22.00	9.20	312.40	11.57
Drop Struct5	22.00	5.00	22.00	9.20	312.40	11.57
						58
25110-0700	GROUTED RIPRAP, METHOD A, CLASS 7					
ID			W3	L3	Area (SF)	Volume (CY)
Drop Struct1			22.00	5.00	110.00	4.07
Drop Struct2			22.00	5.00	110.00	4.07
Drop Struct3			22.00	5.00	110.00	4.07
Drop Struct4			22.00	5.00	110.00	4.07
Drop Struct5			22.00	5.00	110.00	4.07
						20
25110-0900	GROUTED RIPRAP, METHOD A, CLASS 9					
ID			W3	L3	Area (SF)	Volume (CY)
Drop Struct1			22.00	3.00	66.00	2.44
Drop Struct2			22.00	3.00	66.00	2.44
Drop Struct3			22.00	3.00	66.00	2.44
Drop Struct4			22.00	3.00	66.00	2.44
Drop Struct5			22.00	3.00	66.00	2.44
						12
25110-0100	GROUTED RIPRAP, METHOD A, CLASS 1, TYPE M RIPRAP					
ID			W3	L3	Area (SF)	Volume (CY)
Drop Struct1			22.00	3.00	66.00	2.44
Drop Struct2			22.00	3.00	66.00	2.44
Drop Struct3			22.00	3.00	66.00	2.44
Drop Struct4			22.00	3.00	66.00	2.44
Drop Struct5			22.00	3.00	66.00	2.44
						12

61801-0000	Concrete Barrier					
	LT/RT	STATION	TO	STATION	TOTAL	COMMENT
	RT	938+20		940+60	240	RETAINING BARRIER
	RT	894+28		895+43	115	CONCRETE BARRIER ON BRIDGE
	RT	894+28		895+43	115	CONCRETE BARRIER ON BRIDGE
						470

62510-1000 SEEDING, DRY METHOD							N12	
STATION	TO	STATION	DESCRIPTION	Length (ft)	Width (ft)	QUANTI TY (ACRE)	QUANTI TY (ACRE)	
889+76.00		1269+69.00	PROJECT LIMITS	37993	90	78		
PROJECT TOTAL						78		
PROJECT USE						79		

EARTHWORK SUMMARY								
				20401-0000		20403-0000		20410-0000
STATION	TO	STATION	DESCRIPTION	ROADWAY EXCAVATION	EMBANKMENT	UNCLASSIFIED BORROW	WASTE	SELECT BORROW
				CY	CY	CY	CY	CY
889+76.38		1269+68.50	2-12' DRIVING LANES, 8' SHOULDERS WITH TAPER	141173	81935		59238	
10+50.00		21+00.00	BRIDGE DETOUR	3327	3908	581		
1198+00.00		1206+00.00	DAM FILL SLOPE					3765
PROJECT TOTAL				144500		581	59238	3765
PROJECT USE				144550		600	59250	3800

			63304-0400						63305-0200		
SIGN CODE	SIGN AREA (SF)	NO. OF SIGNS	SIGNS, STEEL PANELS, TYPE 9 SHEETING (SQFT)						POSTS, STEEL, 2-INCH DIAMETER		NOTES
				POST SIZE	TOTAL INSTALLS	POST SIZE SIGN AREA	POST SIZE SIGN AREA	POST SIZE SIGN AREA	NO.	TOTAL LENGTH	
R1-1	6	35	219	1.75	35	219			35	420.00	stop
R2-1	5	8	40	1.75	8	40			8	96.00	speed limit
R4-1	3	17	51	1.75	17	51			17	187.00	do not pass
W11-4	6	1	6	1.75	1	6			1	12.00	cow
W14-2	6	1	6	1.75	1	6			1	12.00	no outlet
W14-3	8	17	142	2.25	17			142	17	374.00	no pass zone
W1-5L	6	1	6	1.75	1	6			1	12.00	curves ahead
W2-2L	6	1	6	1.75	1	6			1	12.00	turnout left
W2-2R	6	1	6	1.75	1	6			1	12.00	turnout rt
W1-2R	6	5	31	1.75	5	31			5	60.00	right bend
W1-2L	6	4	25	1.75	4	25			4	48.00	left bend
W1-4L	6	2	13	1.75	2	13			2	24.00	veer left
W3-5	6	2	13	1.75	2	13			2	24.00	reduce speed ahead
D10-2	2	12	23	1.75	12	23			12	144.00	mile markers
M1-6	3	2	5	1.75	2	5			2	22.00	C270 rd sign
D3-1	2	2	4	1.75	2	4			2	20.00	road signs
SUBTOTAL			595							1479	
N12 USE			595								
											63305-0200
SIGN CODE	SIGN AREA (SF)	NO. OF SIGNS	SIGNS, STEEL PANELS, TYPE 9 SHEETING (SQFT)						POSTS, STEEL, 2-INCH DIAMETER		NOTES
				POST SIZE	TOTAL INSTALLS	POST SIZE SIGN AREA	POST SIZE SIGN AREA	POST SIZE SIGN AREA	NO.	TOTAL LENGTH	
OM2		110	0		110				110	1100.00	culvert markers
SUBTOTAL									110	2765	
N12 USE			0					63308-2000	110	4244	

55201-0100	STRUCTURAL CONCRETE, CLASS A										55401-1000
ID	W1	D1	H1	W2	D2	H2	W3	D3	H3	Volume (CY)	REINFORCING
Drop Struct1	24.00	1.00	5.00	24.00	1.00	5.00	30.75	1.00	3.00	12.31	322
Drop Struct2	24.00	1.00	5.00	24.00	1.00	5.00	30.75	1.00	3.00	12.31	322
Drop Struct3	24.00	1.00	5.00	24.00	1.00	5.00	30.75	1.00	3.00	12.31	322
Drop Struct4	24.00	1.00	5.00	24.00	1.00	5.00	30.75	1.00	3.00	12.31	322
Drop Struct5	24.00	1.00	5.00	24.00	1.00	5.00	30.75	1.00	3.00	12.31	322
										62	1608

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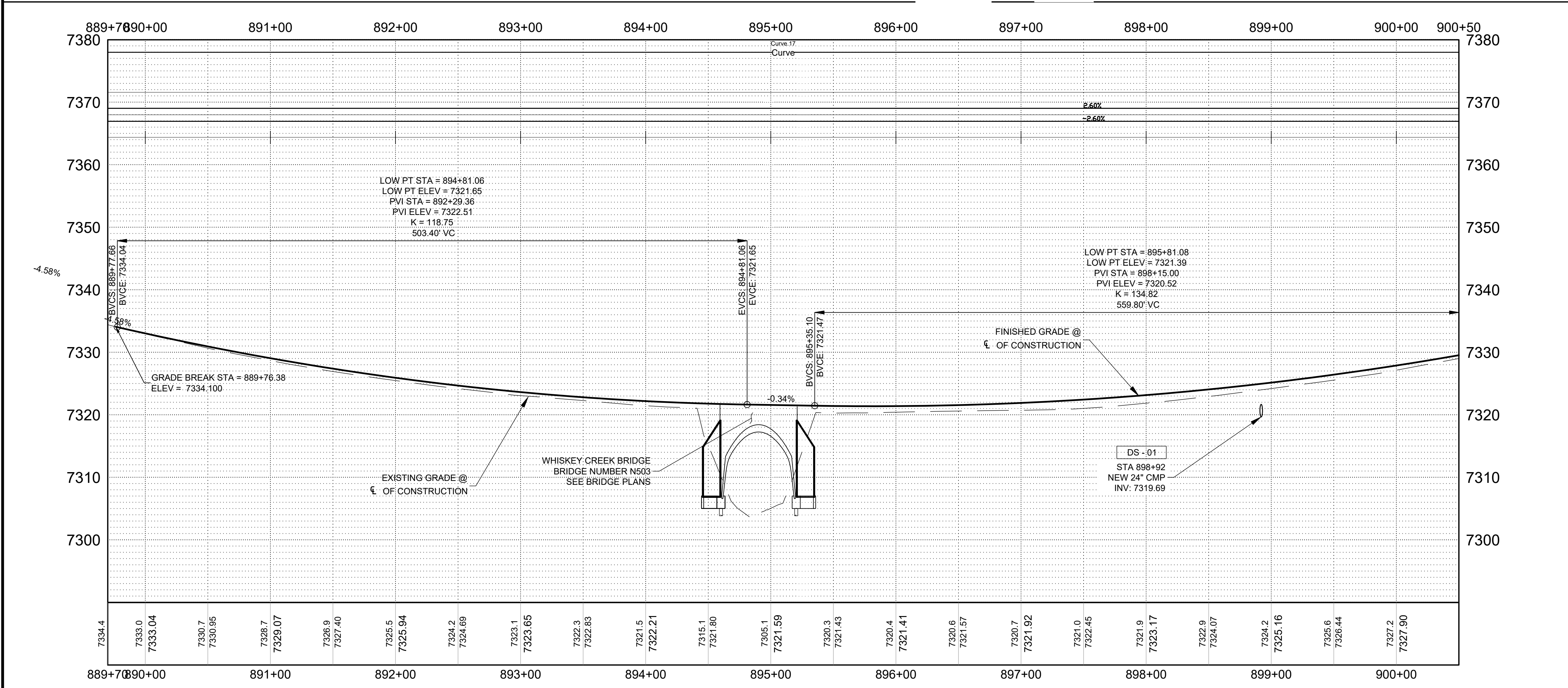
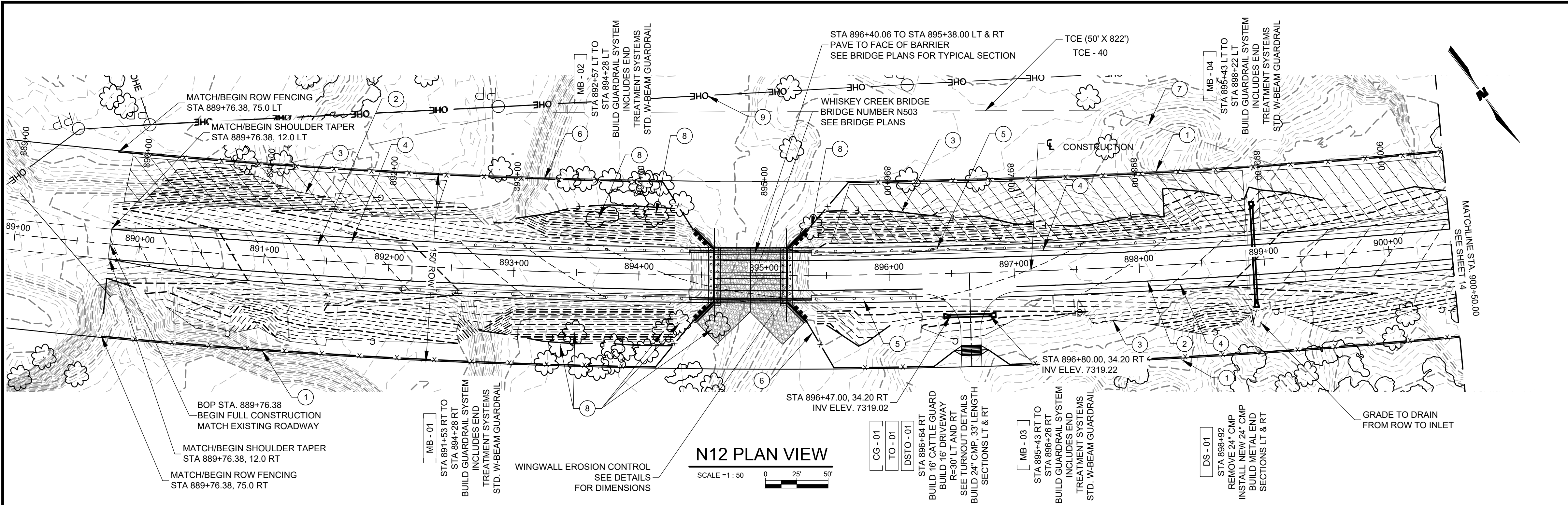
REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	N12(13-2) 1,2&4	12	120

DRAINAGE STRUCTURES																	
						60201-0800	60210-0800	60201-0900	60210-0900	60201-1000	60210-1000	60201-1200	60210-1200	60201-1400	60210-1400	601000	25101-0205
						24" CULVERT PIPE	24" CULVERT PIPE END SECTION	30" CULVERT PIPE	30" CULVERT PIPE END SECTION	36" CULVERT PIPE	36" CULVERT PIPE END SECTION	48" CULVERT PIPE	48" CULVERT PIPE END SECTION	60" CULVERT PIPE	60" CULVERT PIPE END SECTION	REMOVAL OF EXISTING PIPES	Wire Enclosed Riprap, Class 2 (CY)
DS	STATION	Exst Size (in)	Exst Length (ft)	New Size (in)	New Length (ft)	LENGTH (FT)	EACH	LENGTH (FT)	EACH	LENGTH (FT)	EACH	LENGTH (FT)	EACH	LENGTH (FT)	EACH	EACH	
N12																	
ds-1	898+92.	24	54	24	75	75	2	0	0	0	0	0	0	0	0	1	6
ds-2	905+87.	36	83	24	112	112	2	0	0	0	0	0	0	0	0	1	8
ds-3	920+03.	42	56	24	71	71	2	0	0	0	0	0	0	0	0	1	10
ds-4	925+29.	78	76	48	102	0	0	0	0	0	0	102	2	0	0	1	11
ds-5	935+97	24	82	24	108	108	2	0	0	0	0	0	0	0	0	1	6
ds-6	942+19	24	84	24	110	110	2	0	0	0	0	0	0	0	0	1	6
ds-7	943+69.	30	107	24	135	135	2	0	0	0	0	0	0	0	0	1	7
ds-8	945+82.	36	78	24	113	113	2	0	0	0	0	0	0	0	0	1	11
ds-9	955+06	42	72	36	72	0	0	0	0	72	2	0	0	0	0	1	10
ds-10	959+66	36	58	24	71	71	2	0	0	0	0	0	0	0	0	1	8
ds-11	964+87	36	70	30	71	0	0	71	2	0	0	0	0	0	0	1	8
ds-12	968+50	54	75	36	80	0	0	0	0	80	2	0	0	0	0	1	12
ds-13	985+86	42	64	30	71	0	0	71	2	0	0	0	0	0	0	1	10
ds-14	994+35.	42	71	30	82	0	0	82	2	0	0	0	0	0	0	1	10
ds-15	999+06	30	66	24	71	71	2	0	0	0	0	0	0	0	0	1	7
ds-16	1002+25	42	51	36	69	0	0	0	0	69	2	0	0	0	0	1	10
ds-17	1009+36	36	69	24	87	87	2	0	0	0	0	0	0	0	0	1	8
ds-18	1019+91.	42	61	24	92	92	2	0	0	0	0	0	0	0	0	1	10
ds-19	1026+10	36	70	24	95	95	2	0	0	0	0	0	0	0	0	1	8
ds-20	1033+00	24	66	24	87	87	2	0	0	0	0	0	0	0	0	1	6
ds-21	1039+38.	60	86	24	114	114	2	0	0	0	0	0	0	0	0	1	14
ds-22	1048+10.	84	76	60	208	0	0	0	0	0	0	0	0	208	4	1	18
ds-23	1053+32.	24	57	30	308	0	8	308	8	0	0	0	0	0	0	1	6
ds-24	1062+05.	24	58	24	76	76	2	0	0	0	0	0	0	0	0	0	6
ds-25	1066+45	24	57	24	80	80	2	0	0	0	0	0	0	0	0	1	6
ds-26	1069+85	36	64	24	80	80	2	0	0	0	0	0	0	0	0	1	8
ds-27	1072+85	42	80	24	110	110	2	0	0	0	0	0	0	0	0	1	10
ds-28	1084+46	36	65	24	106	106	2	0	0	0	0	0	0	0	0	1	8
ds-29	1088+85	30	55	24	84	84	2	0	0	0	0	0	0	0	0	1	7
ds-30	1092+65.	36	56	24	78	78	2	0	0	0	0	0	0	0	0	1	8
ds-31	1100+84.	30	58	24	73	73	2	0	0	0	0	0	0	0	0	1	7
ds-32	1105+83.	30	54	24	77	77	2	0	0	0	0	0	0	0	0	1	7
ds-33	1112+83	30	56	30	73	0	0	73	2	0	0	0	0	0	0	1	7
ds-34	1119+93	42	58	24	86	86	2	0	0	0	0	0	0	0	0	1	10
ds-35	1124+53	30	53	30	72	0	0	72	2	0	0	0	0	0	0	1	7
ds-36	1130+28.	36	58	24	86	86	2	0	0	86	0	0	0	0	0	1	8
ds-40	1162+28	30	84	30	95	0	0	95	2	0	0	0	0	0	0	1	7
ds-41	1170+78	30	56	24	86	86	2	0	0	0	0	0	0	0	0	1	7
ds-42	1174+16.	30	62	24	88	88	2	0	0	0	0	0	0	0	0	1	7
ds-43	1184+41	30	73	24	105	105	2	0	0	0	0	0	0	0	0	1	7
ds-46	1223+71	36	76	24	111	111	2	0	0	0	0	0	0	0	0	1	8
ds-47	1228+72	36	54	24	85	85	2	0	0	0	0	0	0	0	0	0	8
ds-48	1231+71	24	52	24	81	81	2	0	0	0	0	0	0	0	0	0	8
ds-49	1237+75	36	54	24	83	83	2	0	0	83	0	0	0	0	0	0	8
ds-50	1242+85.	36	58	24	87	87	2	0	0	0	0	0	0	0	0	1	8
ds-51	1248+42	36	58	30	75	0	0	75	2	0	0	0	0	0	0	1	8
ds-54	1266+55.	36	64	30	100	0	0	100	2	0	0	0	0	0	0	1	8
ds-55	1268+75	36	58	36	91	0	0	0	0	91	2	0	0	0	0	1	8
DSTO-01	896+64.			24	33	33	2	0	0	0	0	0	0	0	0	0	6
DSTO-03	928+68.			30	34	0	0	34	2	0	0	0	0	0	0	0	2
DSTO-06	987+95.			24	35	35	2	0	0	0	0	0	0	0	0	0	6
DSTO-09	1050+54.			24	48	48	2	0	0	48	0	0	0	0	0	0	6
DSTO-19	1149+22.			24	33	33	2	0	0	0	0	0	0	0	0	0	6
DSTO-21	1190+15.			24	36	36	2	0	0	0	0	0	0	0	0	0	6
DSTO-22	1191+32.			24	44	44	2	0	0	0	0	0	0	0	0	0	6
DSTO-23	1195+55.			24	44	44	2	0	0	0	0	0	0	0	0	0	6
DSTO-24	1206+95			30	40	0	0	40	2	0	0	0	0	0	0	0	7
DSTO-25	1211+85.			24	55	55	2	0	0	0	0	0	0	0	0	0	6
DSTO-26	1215+52.			24	49	49	2	0	0	0	0	0	0	0	0	0	6
DSTO-28	1219+48.			30	48	0	0	48	2	48	0	0	0	0	0	0	7
DSTO-30	1235+29			24	44	44	2	0	0	0	0	0	0	0	0	0	5
DSTO-32	1246+73.			24	34	34	2	0	0	0	0	0	0	0	0	0	5
DSTO-33	1249+25.			24	38	38	2	0	0	0	0	0	0	0	0	0	6
DSTO-34	1261+22.			24	38	38	2	0	0	0	0	0	0	0	0	0	7
N12 TOTAL						3534	100	1069	30	312	8	102	2	208	4	49	556

STRUCTURE RIPRAP FOR BRIDGE				25110-2000
				Grouted Riprap, Class 2
	LENGTH	HEIGHT	THICKNESS	VOLUME (CY)
SOUTH SIDE	90	29	1	97
NORTH SIDE	90	29	1	97
				193

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET, SUITE 460 PHOENIX, ARIZONA 85008 (602) 283-2701		ROUTE N12			
		SUMMARY OF QUANTITIES 3			
	REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012		DATE	2025
DRAWN	ERG	PROJECT NO.		SHEET NO.	
CHECK	ASF	N12(13-2) 1,2,&4		12 OF 120	



REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	13	120

GENERAL NOTES

- CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
- CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC

LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT
	POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701		ROUTE N12	
		PLAN AND PROFILE	
	DESIGN	JEB	WCEA NO. 1710009012
	DRAWN	ERG	
	CHECK	ASF	
	N12		
		DATE	2025
		SHEET NO.	13 - 120

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	14	120

GENERAL NOTES

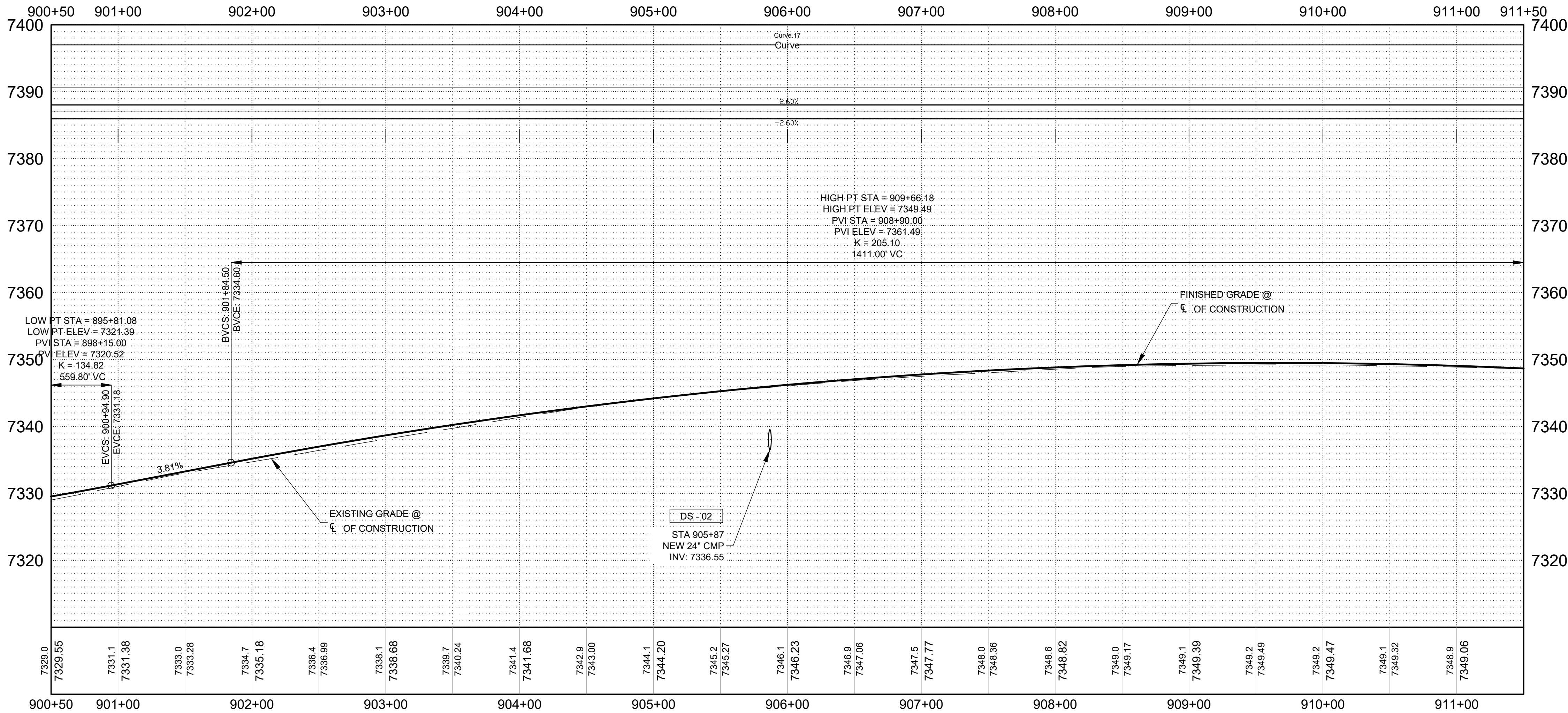
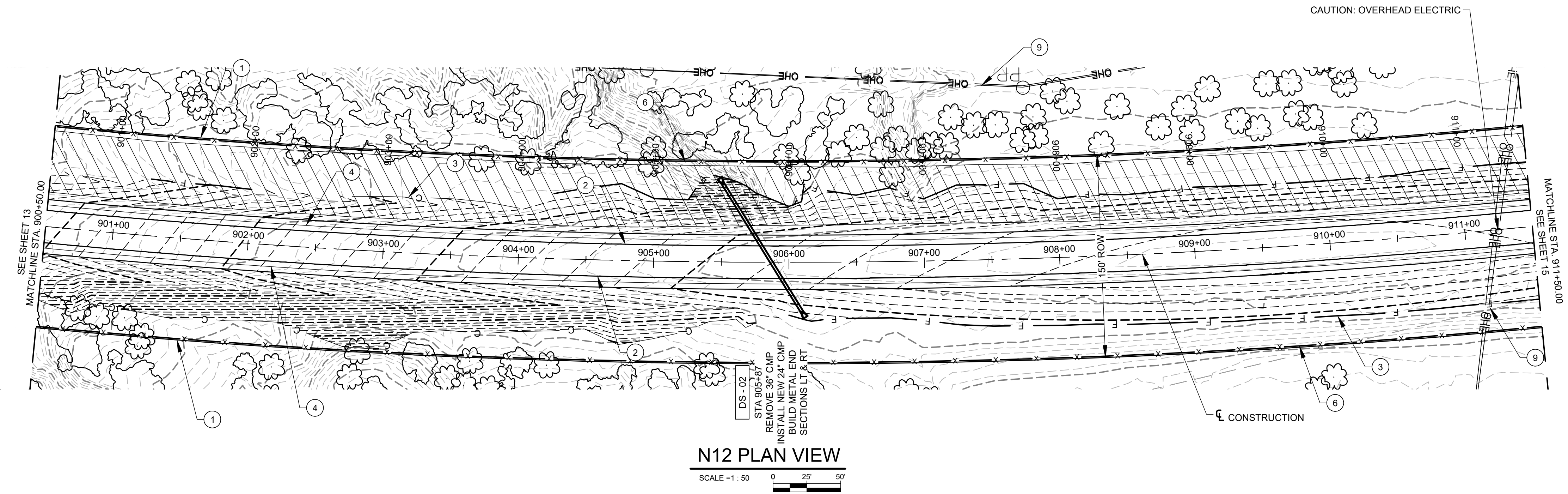
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- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC

LEGEND

- CG - XX CATTLE GUARD
- TO - XX TURNOUT/DRIVEWAY
- DS - XX DRAINAGE STRUCTURE
- DSTO - XX DRAINAGE STRUCTURE AT TURNOUT
- POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.



AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY
410 NORTH 44TH STREET
SUITE 460
PHOENIX, AZ 85008
(602) 283-2701

ROUTE N12

PLAN AND PROFILE



REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.	
CHECK	ASF	N12	14	-120

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	15	120

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
2. CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
3. INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL

LEGEND

- CG - XX CATTLE GUARD
- TO - XX TURNOUT/DRIVEWAY
- DS - XX DRAINAGE STRUCTURE
- DSTO - XX DRAINAGE STRUCTURE AT TURNOUT
- POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY

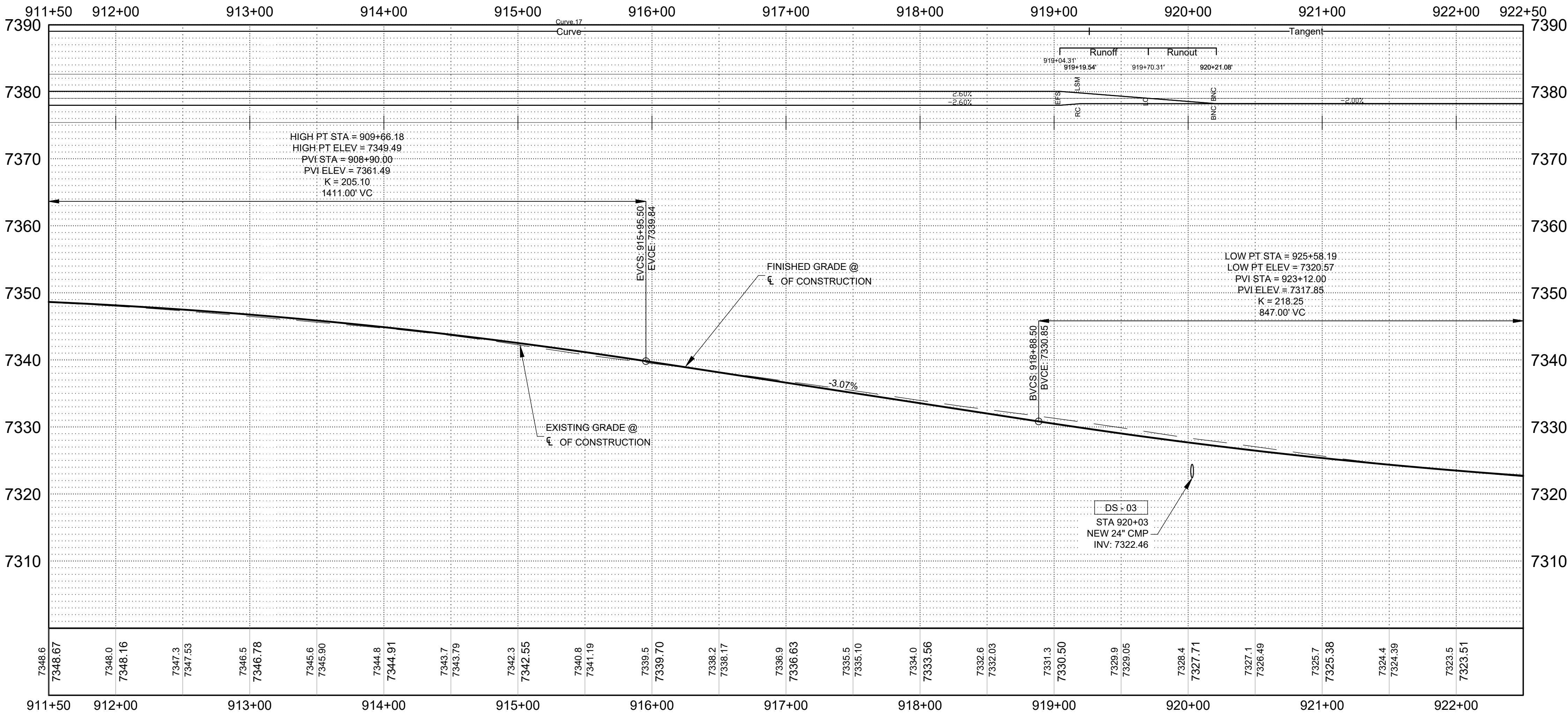
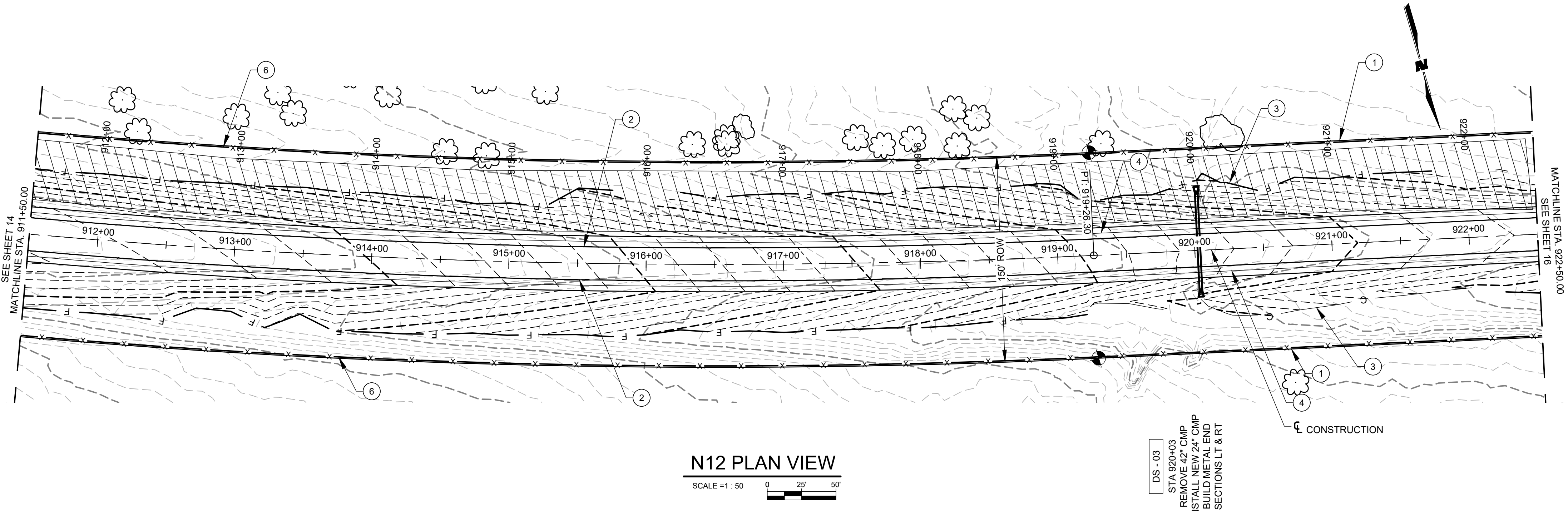
410 NORTH 44TH STREET
SUITE 460
PHOENIX, AZ 85008
(602) 283-2701

ROUTE N12

PLAN AND PROFILE



REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.	
CHECK	ASF	N12	15	120



N12 PROFILE VIEW

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	16	120

GENERAL NOTES

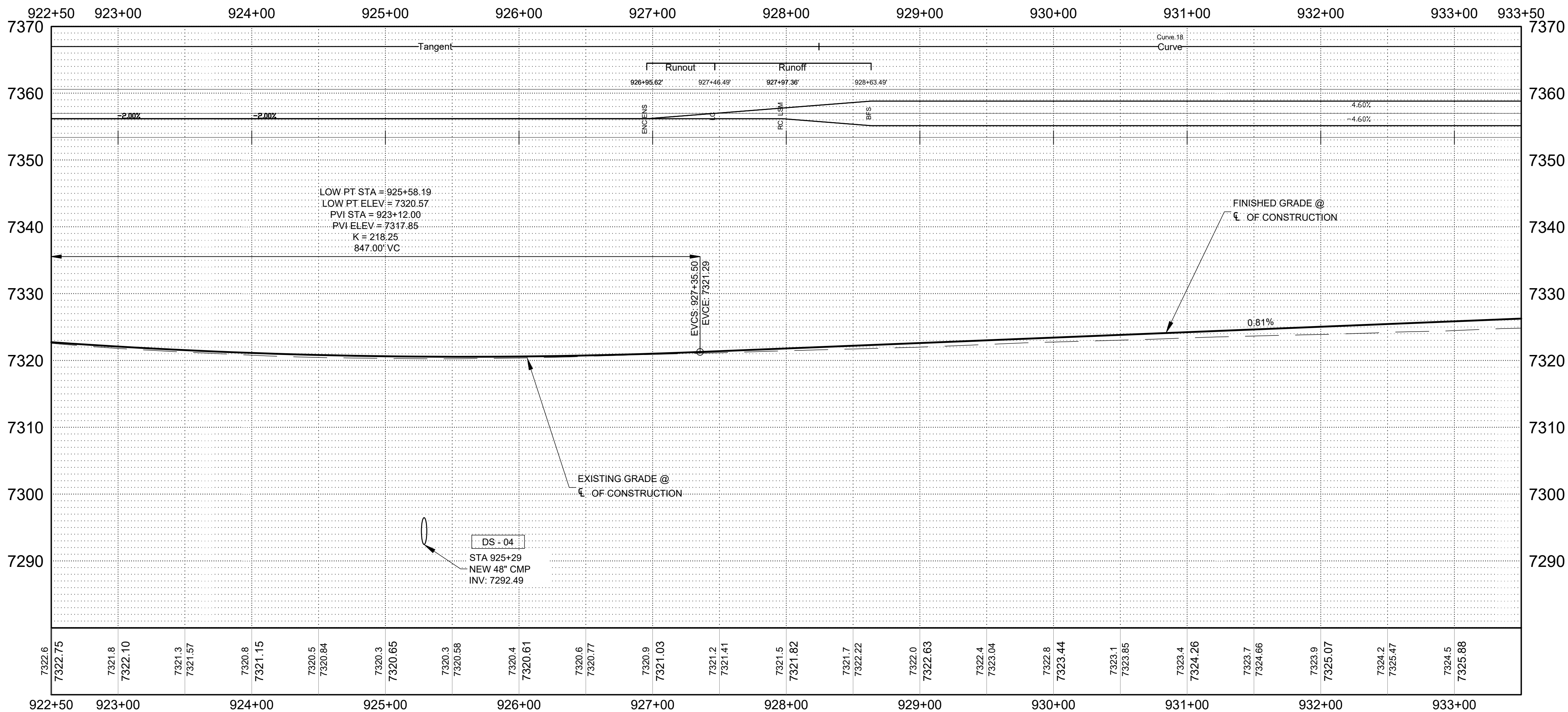
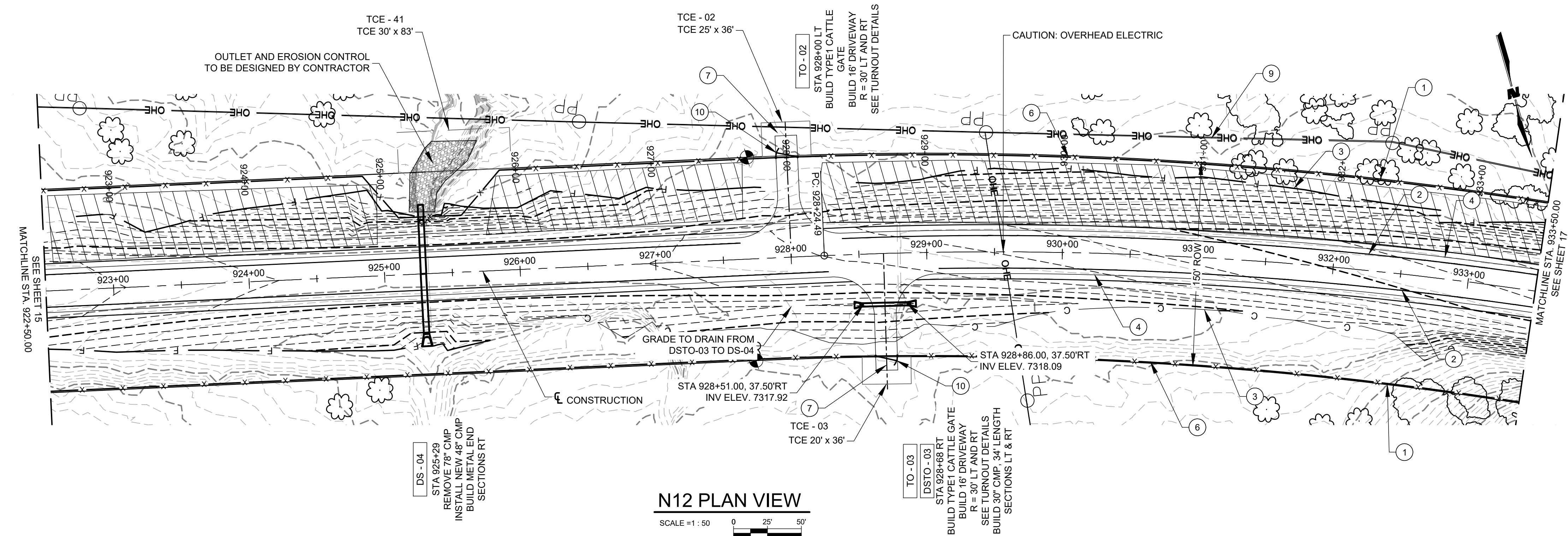
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- CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHOWN ON THIS PLAN SET.
- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- EXISTING ROW
- EDGE OF TRAVEL WAY
- SLOPE LIMITS
- EDGE OF PAVEMENT
- INSTALL GUARDRAIL
- NEW ROW FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- TREE REMOVAL
- EXISTING OVERHEAD ELECTRIC
- TYPE 1 CATTLE GATE

LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT
	POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.



AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY
410 NORTH 44TH STREET
SUITE 460
PHOENIX, AZ 85008
(602) 283-2701

ROUTE N12

PLAN AND PROFILE



REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.	
CHECK	ASF	N12	16	-120

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	17	120

GENERAL NOTES

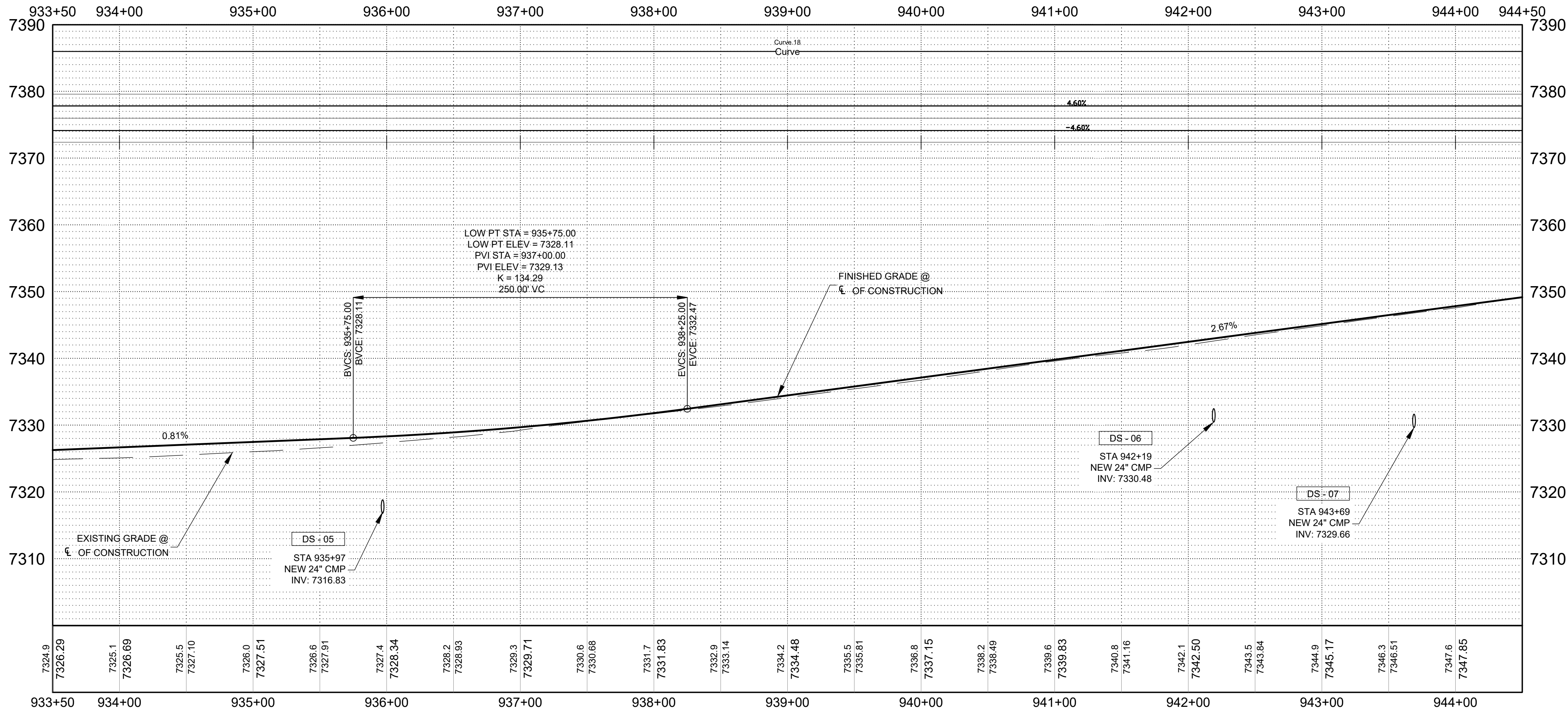
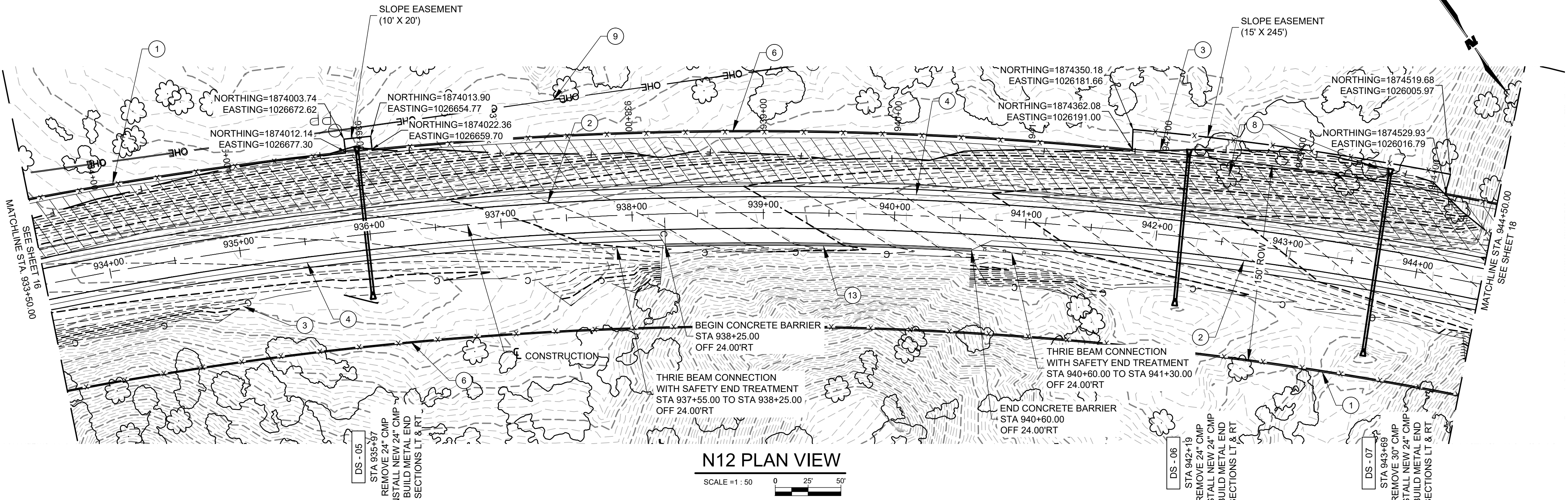
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- CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC
- 13 CONCRETE BARRIER

LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT
	POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.



AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701		ROUTE N12			
		PLAN AND PROFILE			
Registered Professional Engineer (Civil) CERTIFICATE NO. 76131 JOSHUA BROWN Date Signed: 10/28/2025 ARIZONA, U.S.A.	REVIEWS	NO.	DATE	REMARKS	BY
	DESIGN	JEB	WCEA NO. 1710009012		DATE 2025
	DRAWN	ERG			SHEET NO.
	CHECK	ASF	N12		17 - 120

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	19	120

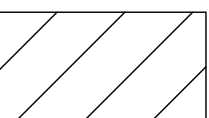
GENERAL NOTES

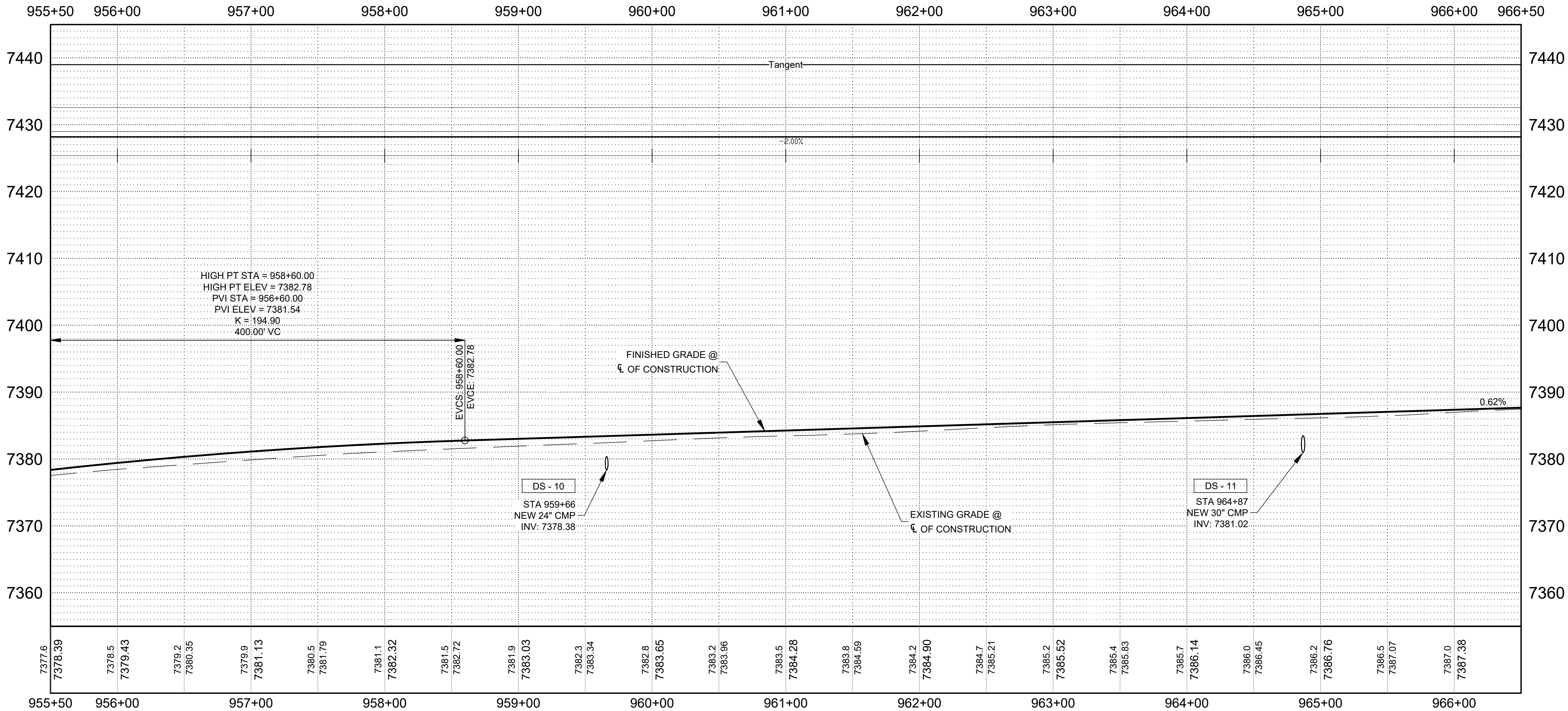
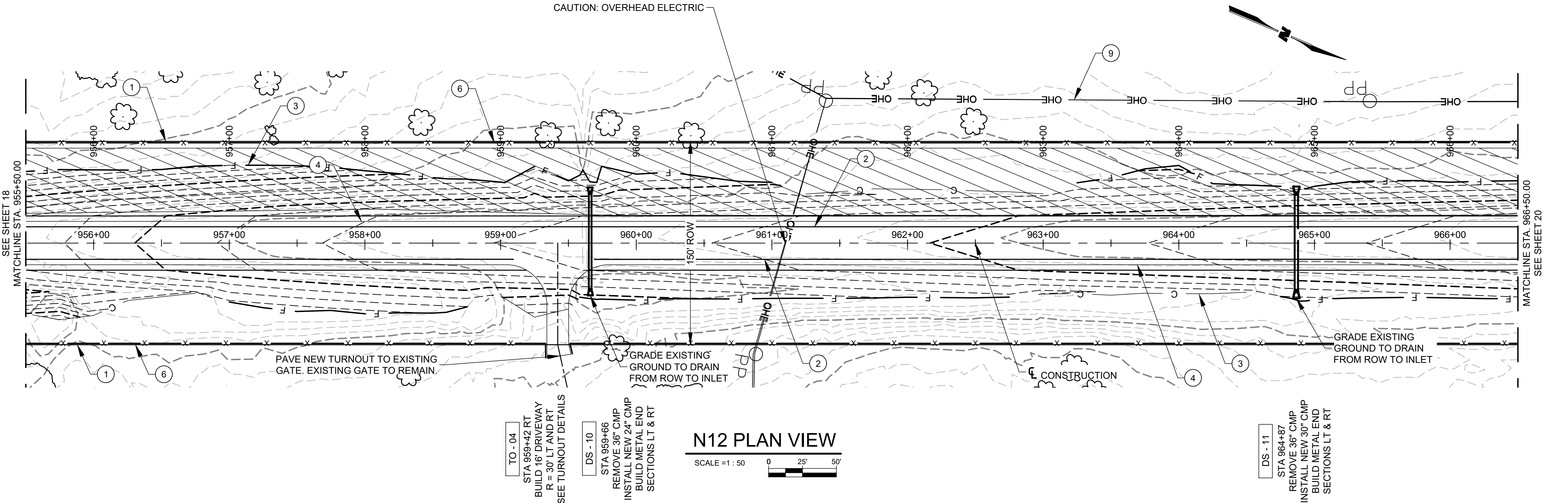
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2. CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
3. INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXSITING OVERHEAD ELECTRIC

LEGEND

- | | |
|-----------|-------------------------------|
| CG - XX | CATTLE GUARD |
| TO - XX | TURNOUT/DRIVEWAY |
| DS - XX | DRAINAGE STRUCTURE |
| DSTO - XX | DRAINAGE STRUCTURE AT TURNOUT |
-  POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.



AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY
410 NORTH 44TH STREET
SUITE 460
PHOENIX, AZ 85008
(602) 283-2701

ROUTE N12

PLAN AND PROFILE



REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.	
CHECK	ASF	N12	19	120

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	20	120

GENERAL NOTES

- CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
- CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

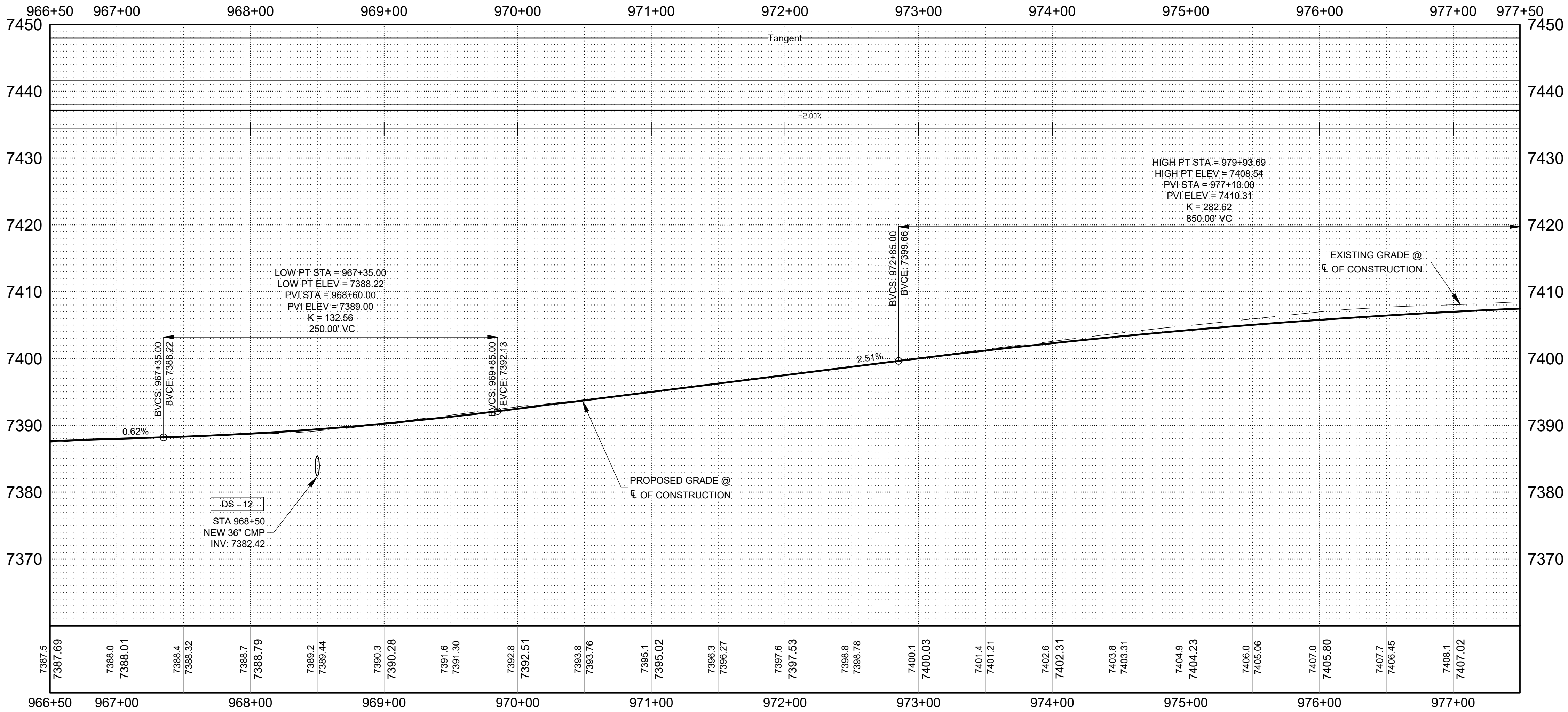
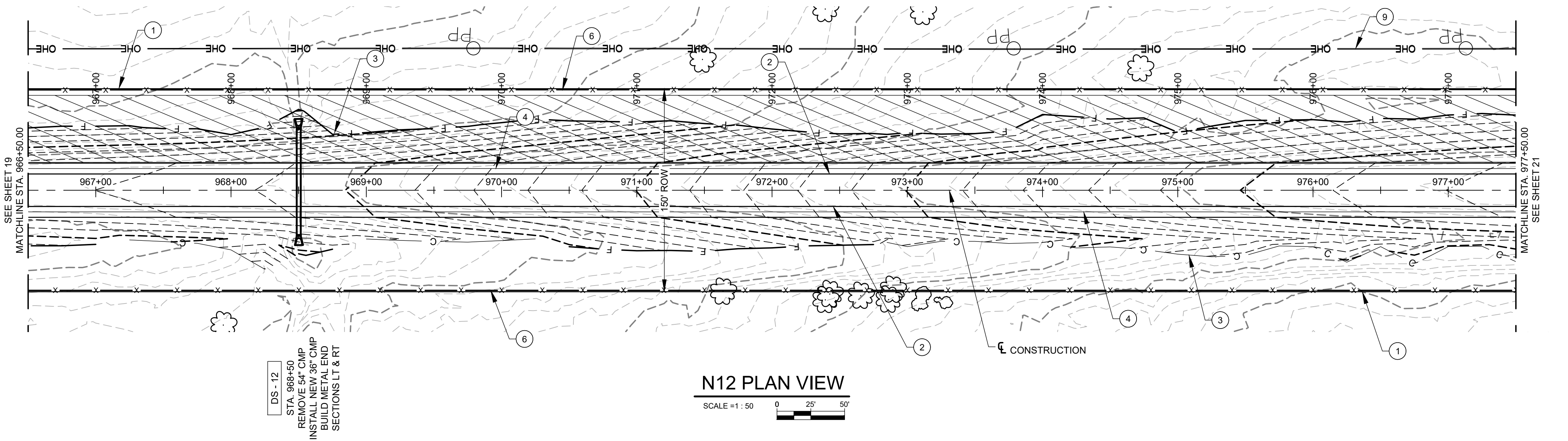
- EXISTING ROW
- EDGE OF TRAVEL WAY
- SLOPE LIMITS
- EDGE OF PAVEMENT
- INSTALL GUARDRAIL
- NEW ROW FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- TREE REMOVAL
- EXISTING OVERHEAD ELECTRIC

LEGEND

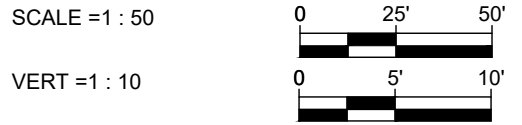
CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
LW - XX	LOW WATER CROSSING
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT
	POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701		ROUTE N12			
		PLAN AND PROFILE			
	REVISIONS	NO.	DATE	REMARKS	BY
	DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
	DRAWN	ERG		SHEET NO.	
	CHECK	ASF	N12		
				20	-120



N12 PROFILE VIEW



REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	21	120

GENERAL NOTES

- CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
- CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- EXISTING ROW
- EDGE OF TRAVEL WAY
- SLOPE LIMITS
- EDGE OF PAVEMENT
- INSTALL GUARDRAIL
- NEW ROW FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- TREE REMOVAL
- EXISTING OVERHEAD ELECTRIC
- TYPE 1 CATTLE GATE
- EXISTING WATER LINE

LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT
	POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.

AGENCY LINE TO WHEATFIELDS LAKE

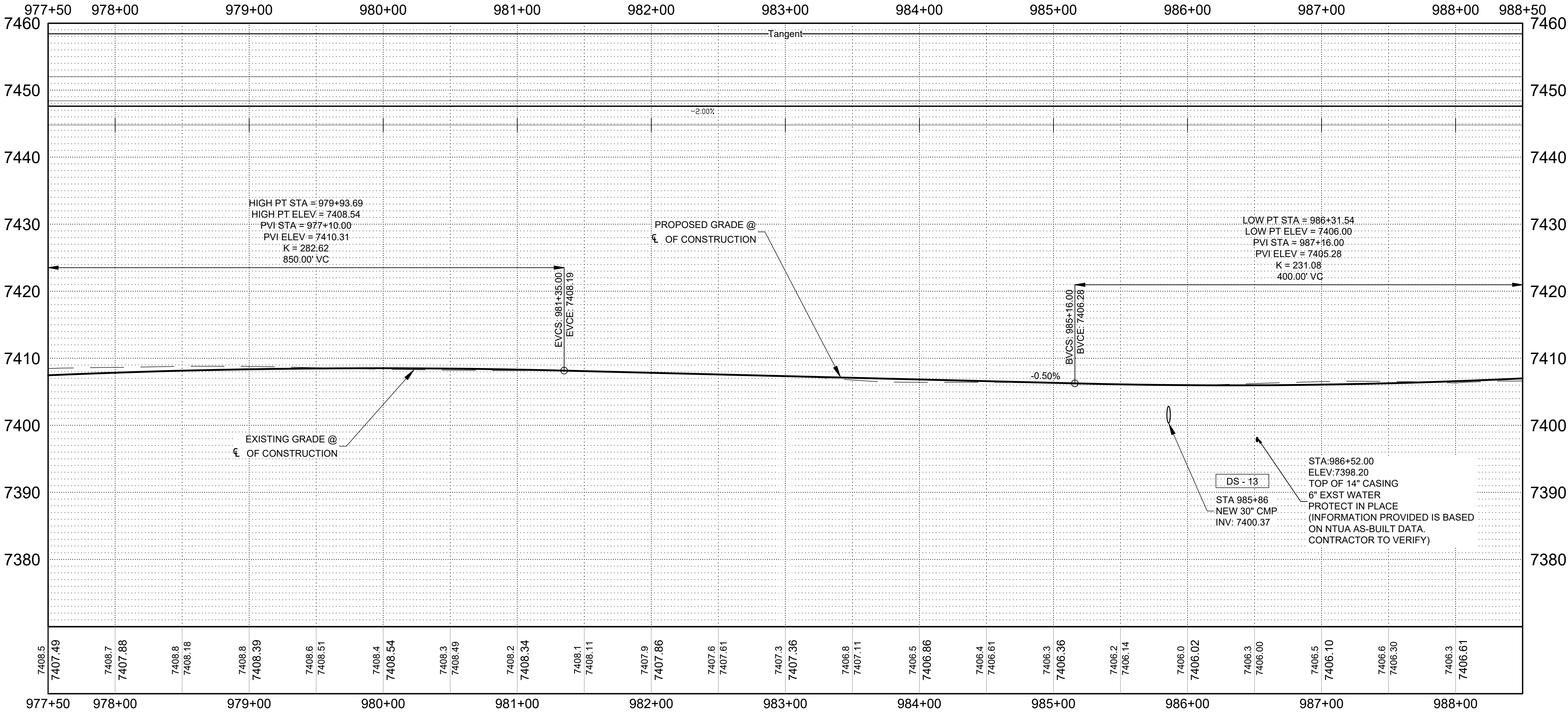
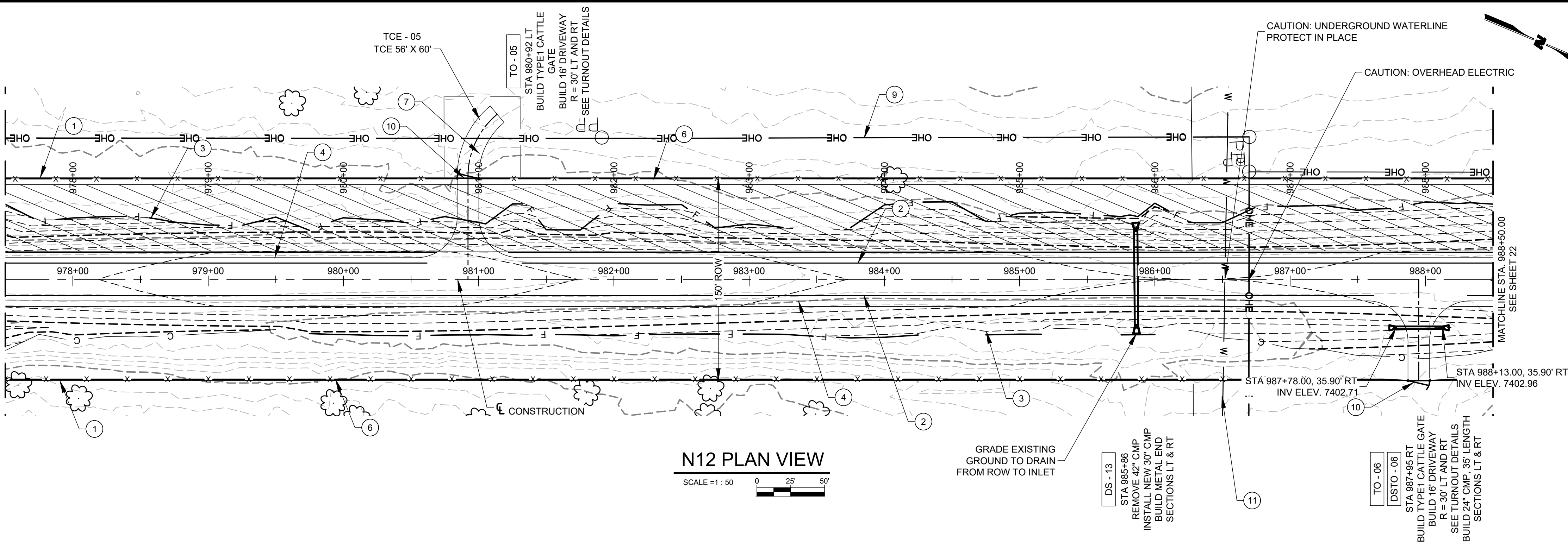
WILSON & COMPANY
410 NORTH 44TH STREET
SUITE 460
PHOENIX, AZ 85008
(602) 283-2701

ROUTE N12

PLAN AND PROFILE



REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.	
CHECK	ASF	N12	21	-120



N12 PROFILE VIEW

SCALE = 1 : 50
VERT = 1 : 10

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	22	120

GENERAL NOTES

- CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
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- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

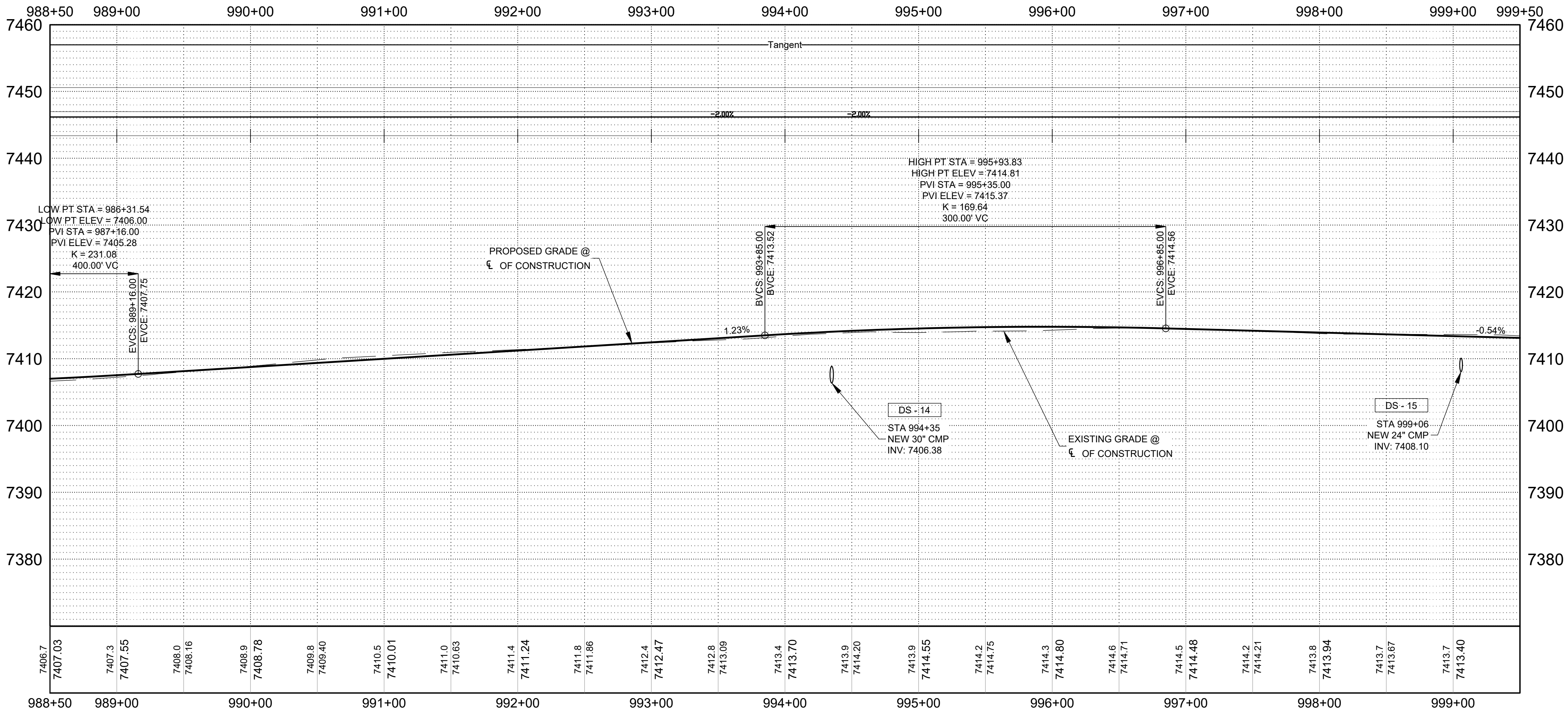
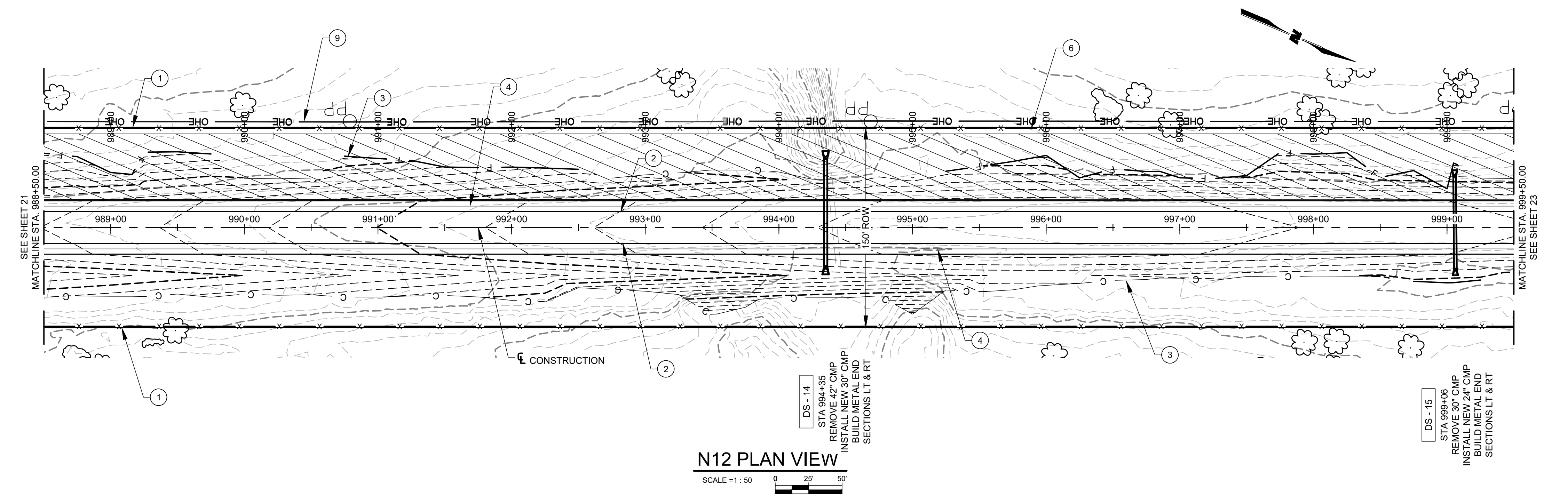
- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC

LEGEND

- CG - XX CATTLE GUARD
- TO - XX TURNOUT/DRIVEWAY
- DS - XX DRAINAGE STRUCTURE
- DSTO - XX DRAINAGE STRUCTURE AT TURNOUT
- POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701	ROUTE N12				
	PLAN AND PROFILE				
	REVISIONS	NO.	DATE	REMARKS	BY
		DESIGN	JEB	WCEA NO. 1710009012	
	DRAWN	ERG			SHEET NO.
	CHECK	ASF	N12		22 - 120



N12 PROFILE VIEW

SCALE = 1 : 50
VERT = 1 : 10

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	23	120

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES OR CLEAN EXISTING STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
2. CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW OR REMOVE EXISTING DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
3. INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC

LEGEND

- CG - XX CATTLE GUARD
- TO - XX TURNOUT/DRIVEWAY
- DS - XX DRAINAGE STRUCTURE
- DSTO - XX DRAINAGE STRUCTURE AT TURNOUT
- POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.

AGENCY LINE TO WHEATFIELDS LAKE

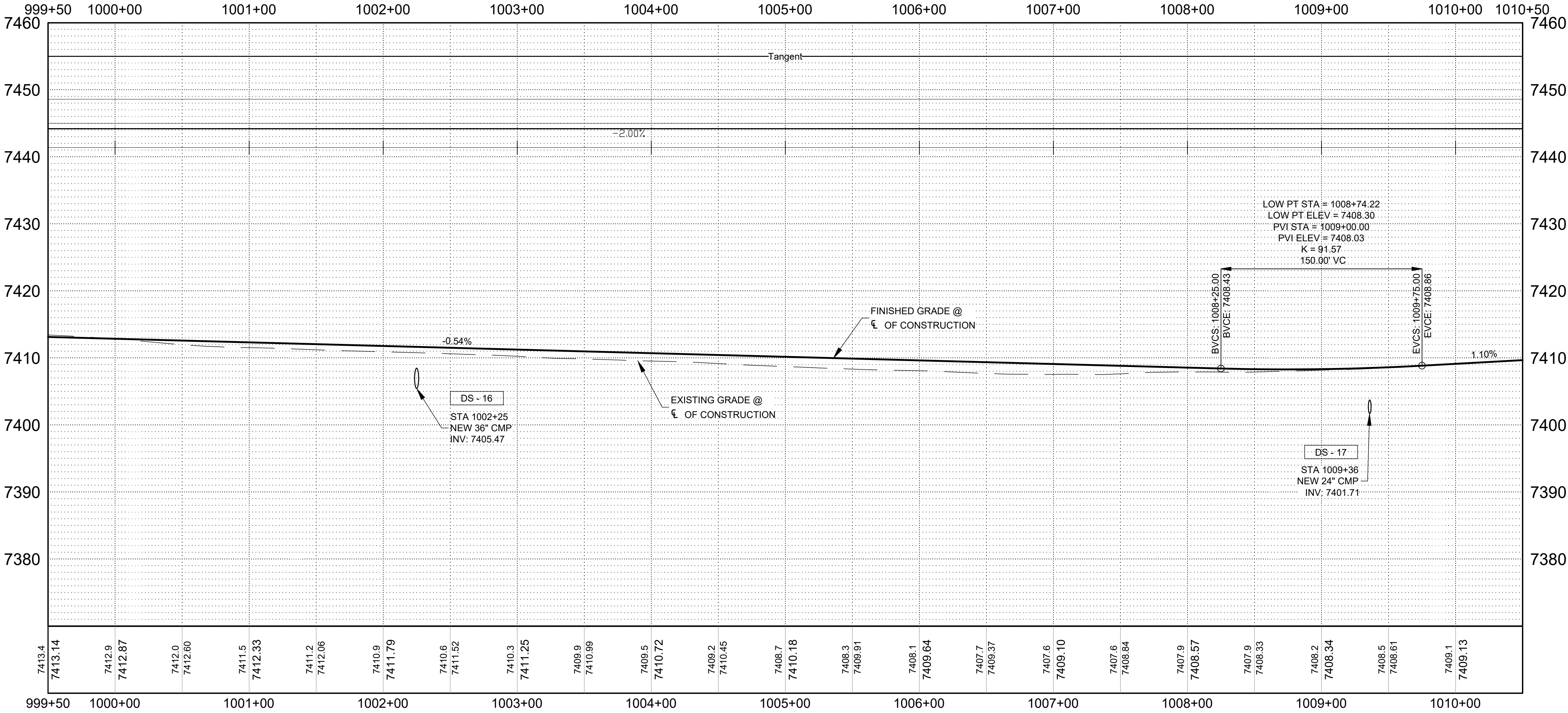
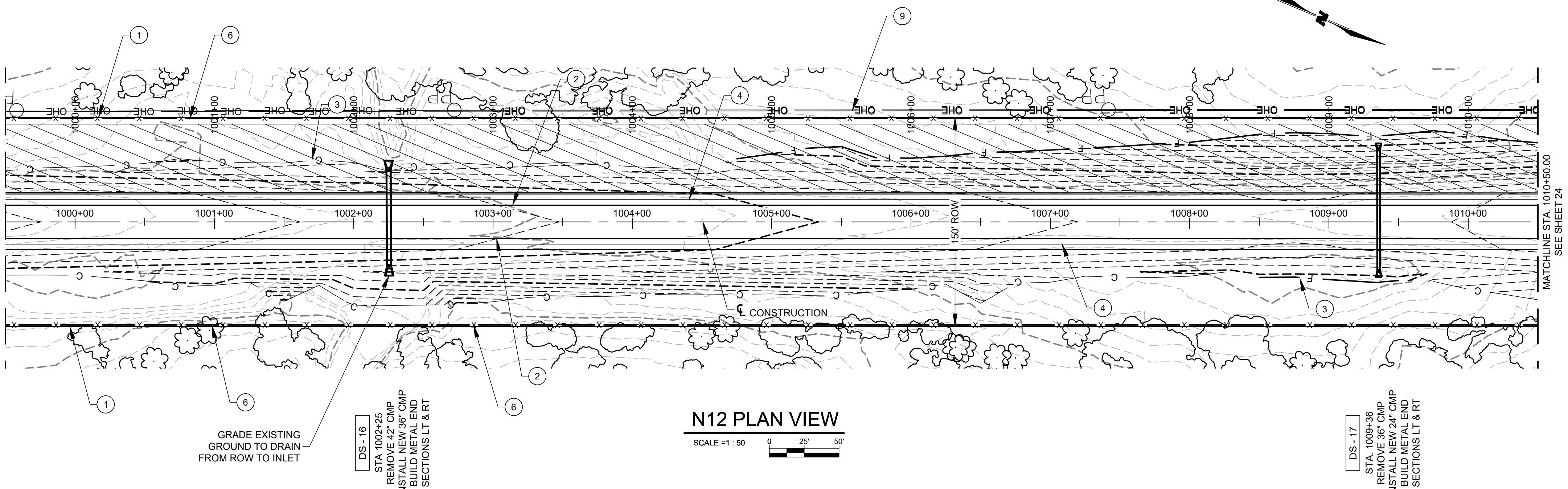
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ROUTE N12

PLAN AND PROFILE



REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.	
CHECK	ASF	N12	23	120



N12 PROFILE VIEW

SCALE = 1 : 50
VERT = 1 : 10

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	24	120

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES OR CLEAN EXISTING STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
2. CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW OR REMOVE EXISTING DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
3. INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC

LEGEND

- CG - XX CATTLE GUARD
- TO - XX TURNOUT/DRIVEWAY
- DS - XX DRAINAGE STRUCTURE
- DSTO - XX DRAINAGE STRUCTURE AT TURNOUT
- POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.

AGENCY LINE TO WHEATFIELDS LAKE

WILSON

& COMPANY

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SUITE 460

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ROUTE N12

PLAN AND PROFILE

REVISIONS

NO.

DATE

REMARKS

BY

DESIGN

JEB

WCEA NO. 1710009012

DATE

2025

DRAWN

ERG

SHEET NO.

CHECK

ASF

N12

24

- 120

Registered Professional Engineer (Civil)

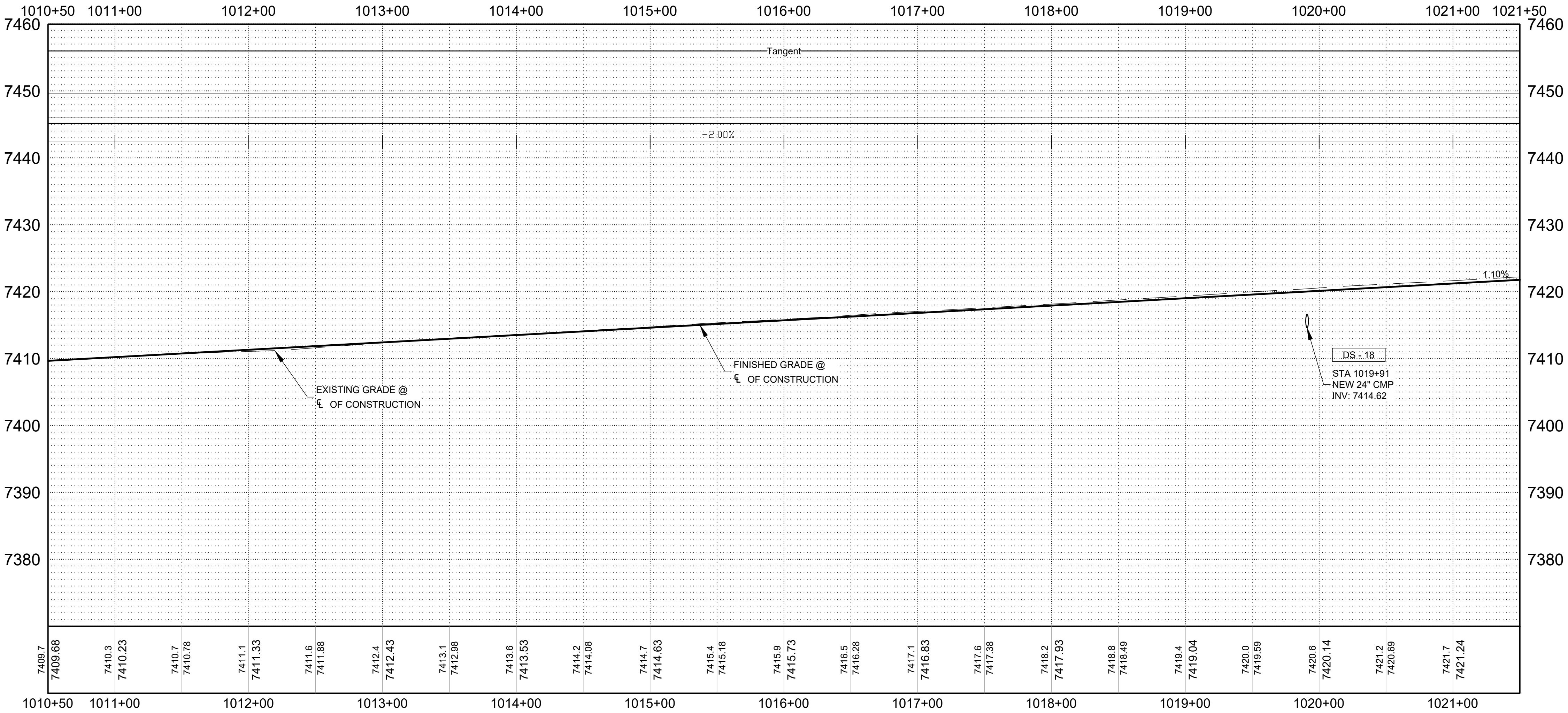
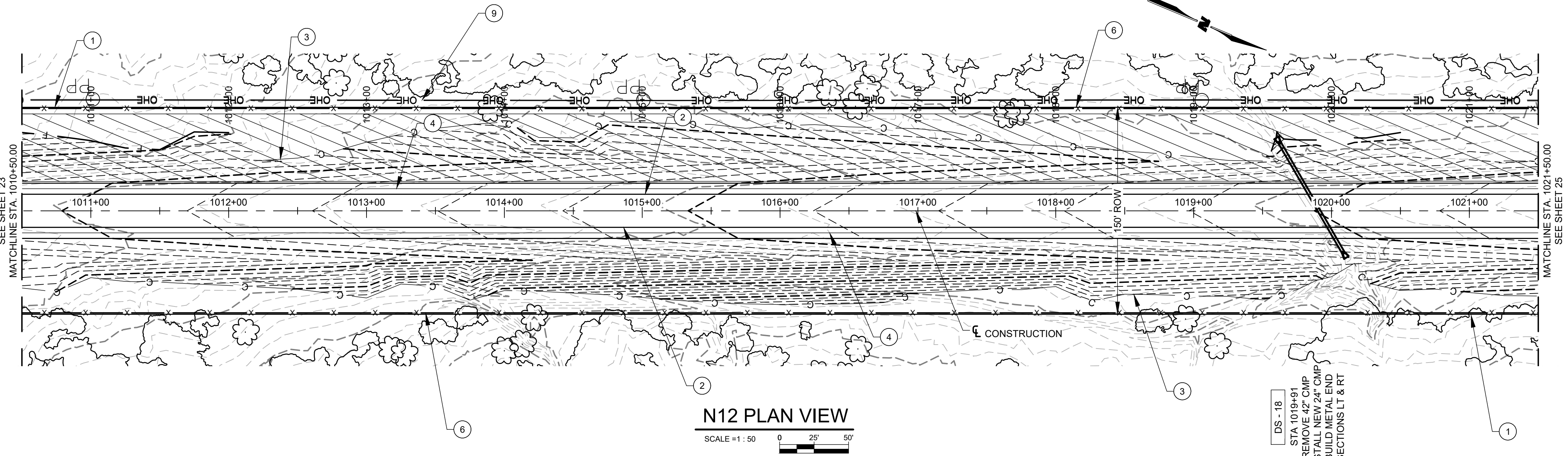
CERTIFICATE NO.

76131

JOSHUA BROWN

Date Signed: 03/03/2025

ARIZONA, U.S.A.



N12 PROFILE VIEW

SCALE = 1 : 50

VERT = 1 : 10

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	25	120

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
2. CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
3. INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC

LEGEND

- CG - XX CATTLE GUARD
- TO - XX TURNOUT/DRIVEWAY
- DS - XX DRAINAGE STRUCTURE
- DSTO - XX DRAINAGE STRUCTURE AT TURNOUT
- POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY

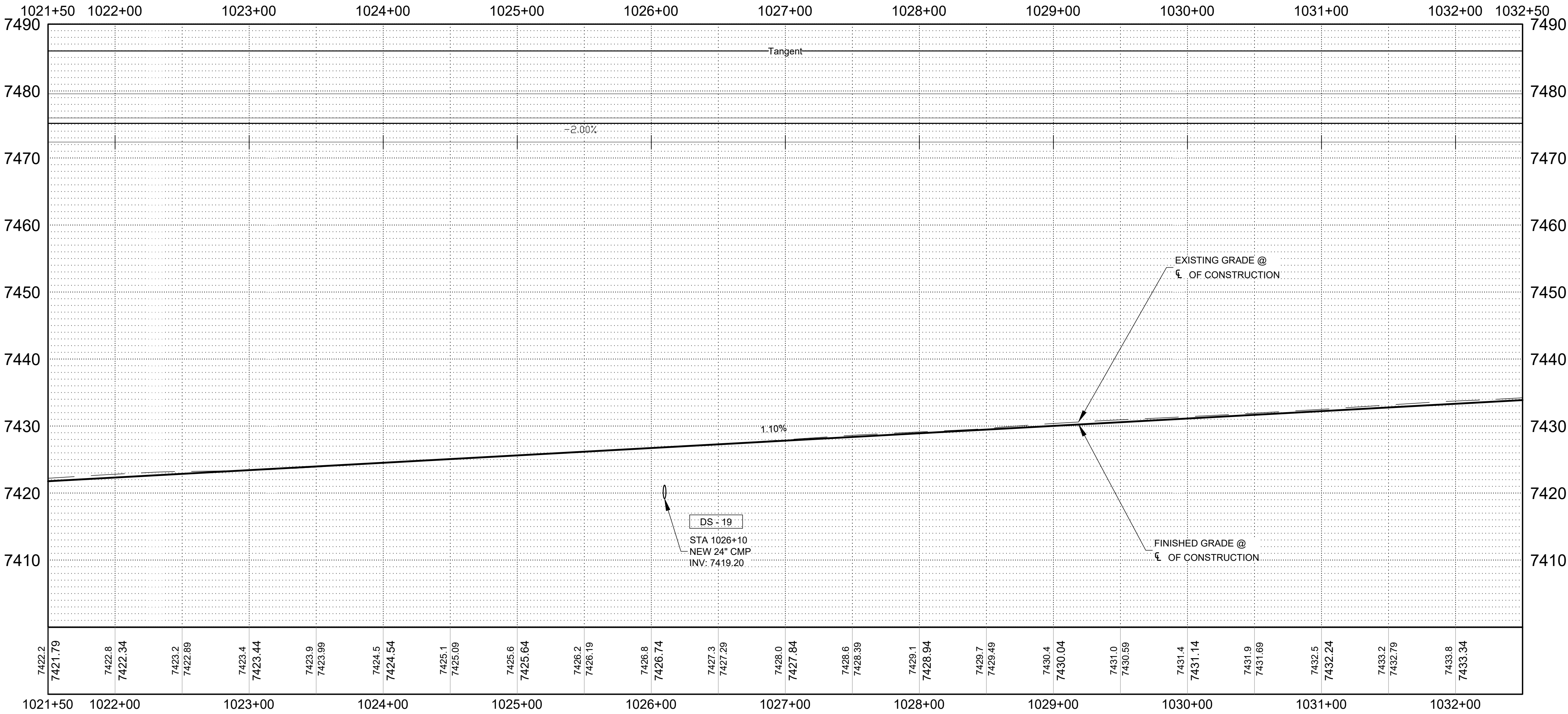
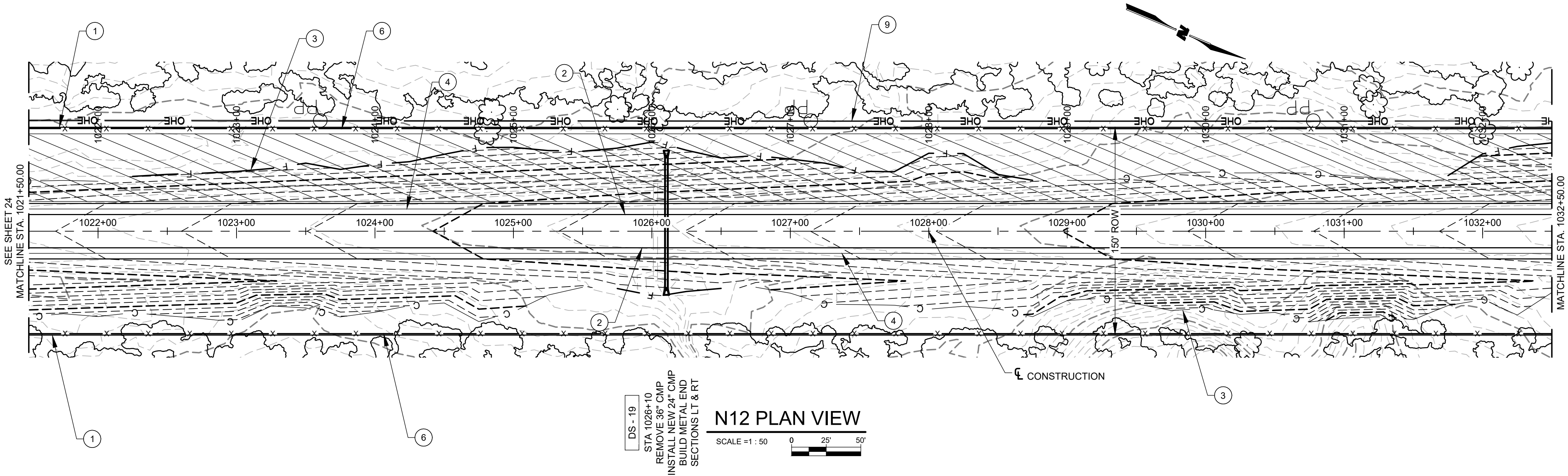
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ROUTE N12

PLAN AND PROFILE



REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.	
CHECK	ASF	N12	25	- 120



N12 PROFILE VIEW

SCALE = 1 : 50

VERT = 1 : 10

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	26	120

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
2. CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
3. INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC
- 10 TYPE 1 CATTLE GATE

LEGEND

- CG - XX CATTLE GUARD
- TO - XX TURNOUT/DRIVEWAY
- DS - XX DRAINAGE STRUCTURE
- DSTO - XX DRAINAGE STRUCTURE AT TURNOUT
- POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.

AGENCY LINE TO WHEATFIELDS LAKE

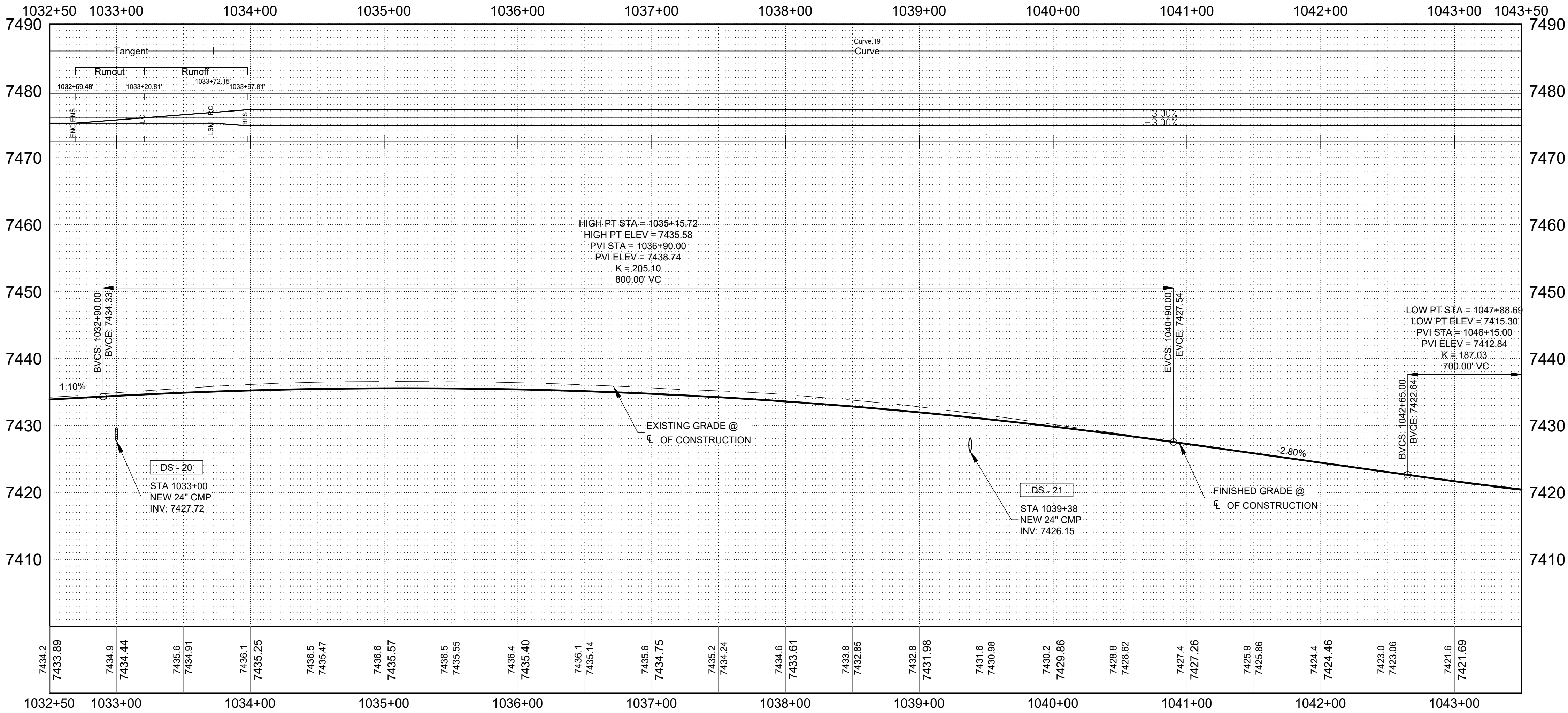
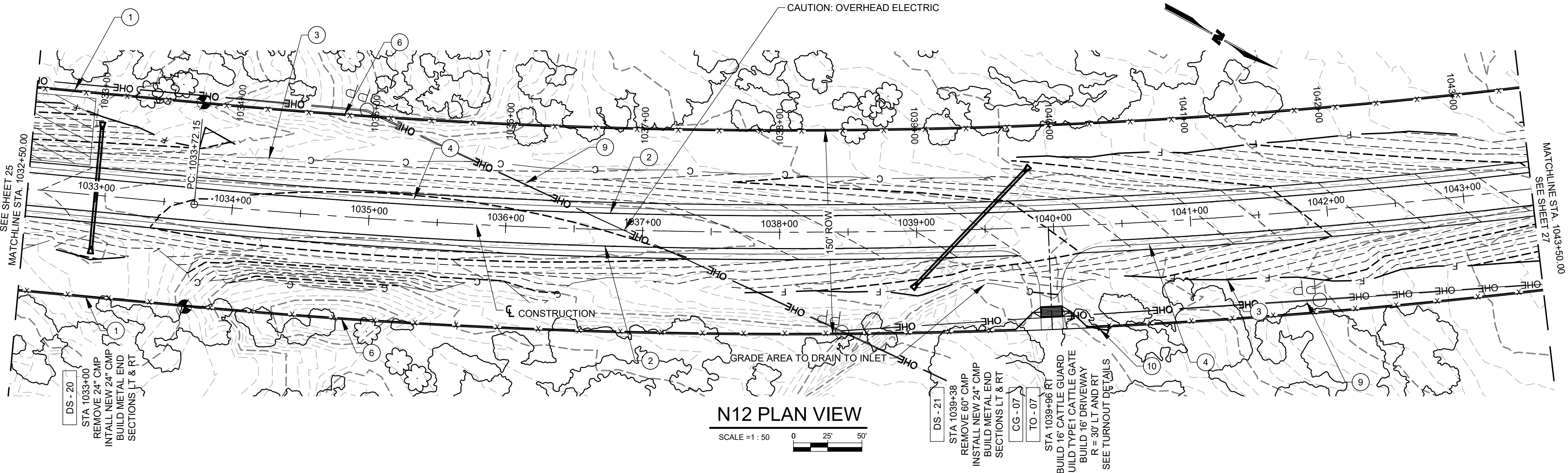
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PHOENIX, AZ 85008
(602) 283-2701

ROUTE N12

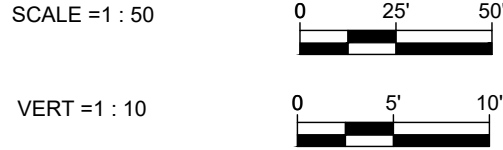
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REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.	
CHECK	ASF	N12	26	120



N12 PROFILE VIEW



REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	27	120

GENERAL NOTES

- CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
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- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC
- 10 TYPE 1 CATTLE GATE

LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY

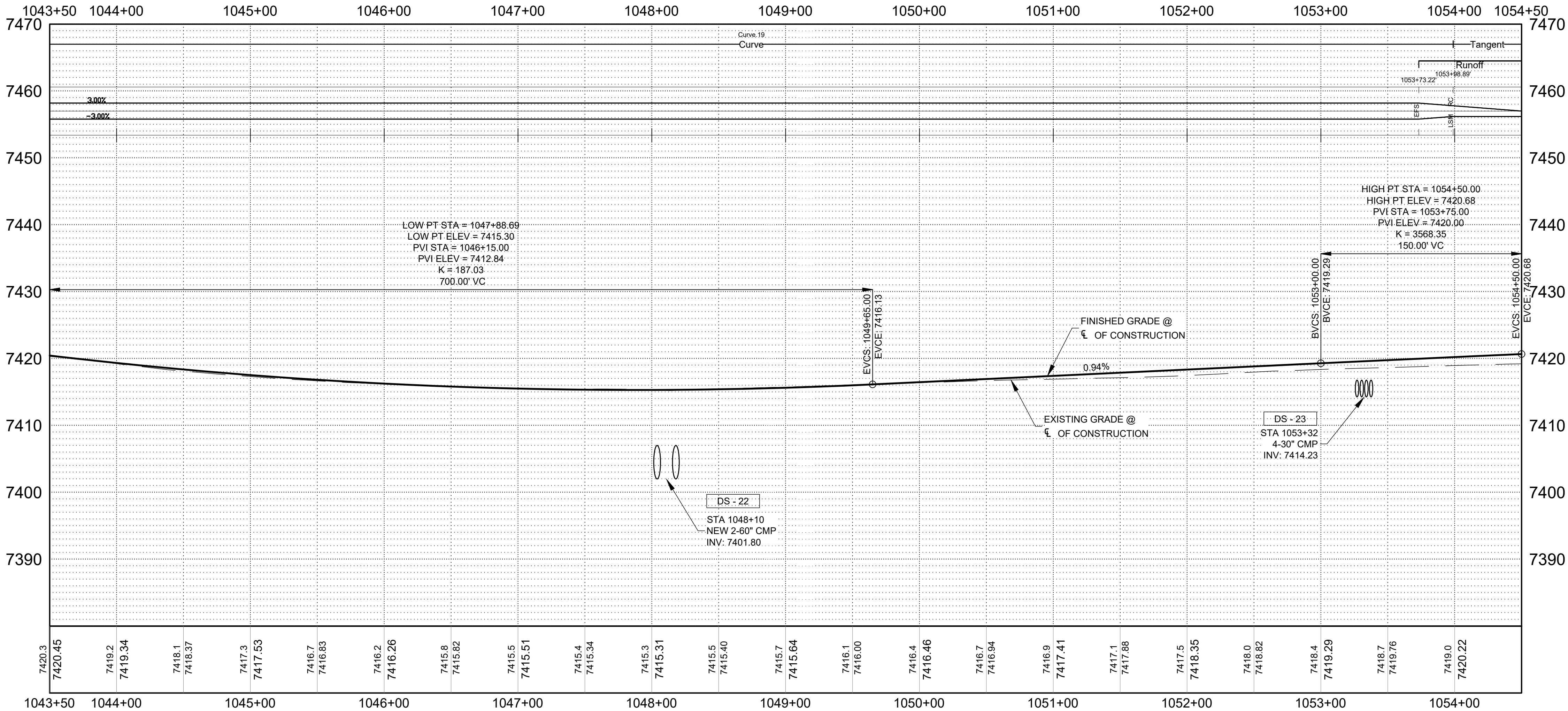
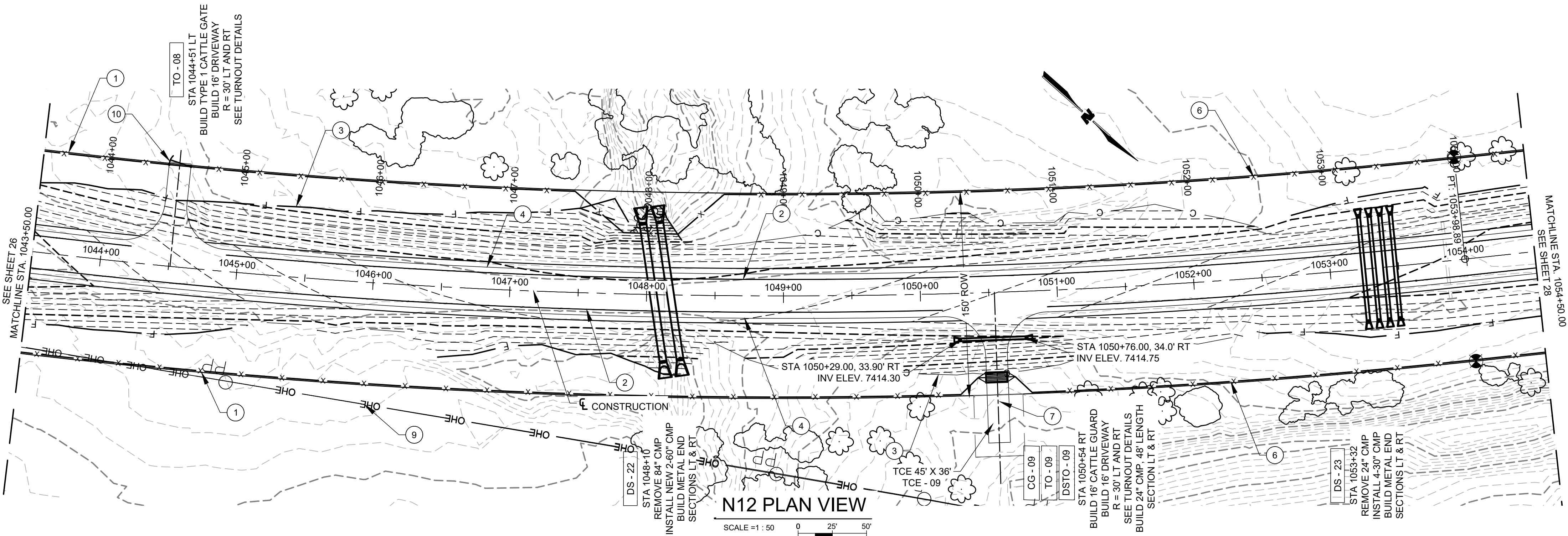
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ROUTE N12

PLAN AND PROFILE



REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.	
CHECK	ASF	N12	27	120



N12 PROFILE VIEW



REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	28	120

GENERAL NOTES

- CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
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- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

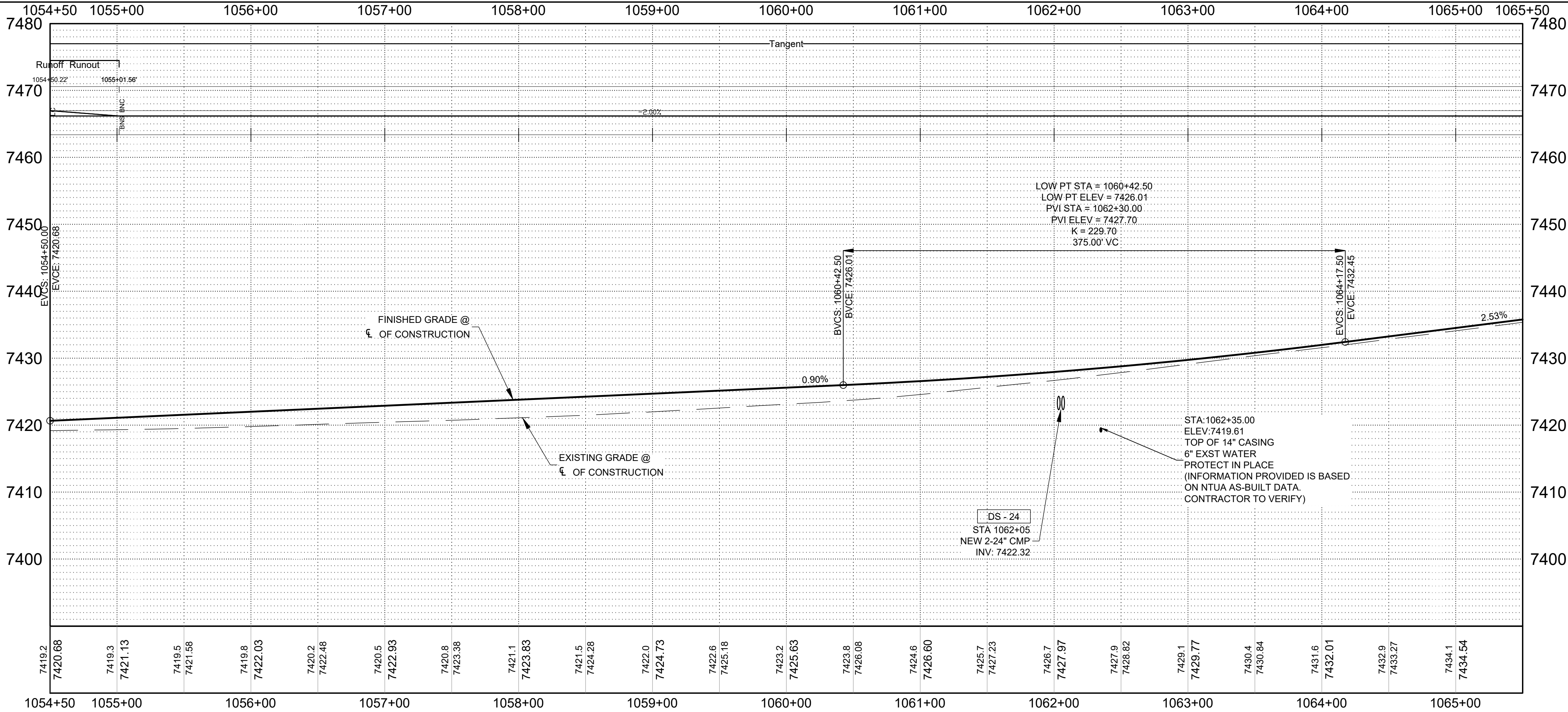
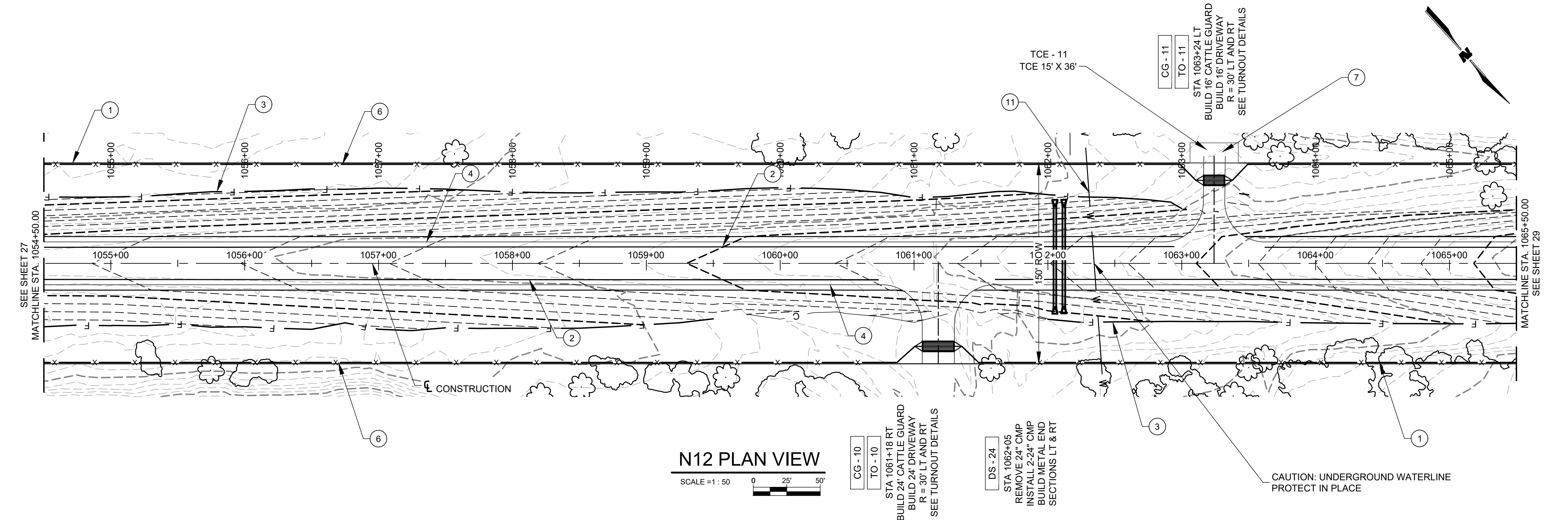
- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC
- 11 EXISTING WATER LINE

LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701	ROUTE N12				
	PLAN AND PROFILE				
	REVISIONS	NO.	DATE	REMARKS	BY
	DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.		
CHECK	ASF	N12	28	- 120	



N12 PROFILE VIEW

SCALE = 1 : 50	0 25' 50'
VERT = 1 : 10	0 5' 10'

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	29	120

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
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- 9 EXISTING OVERHEAD ELECTRIC

LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT

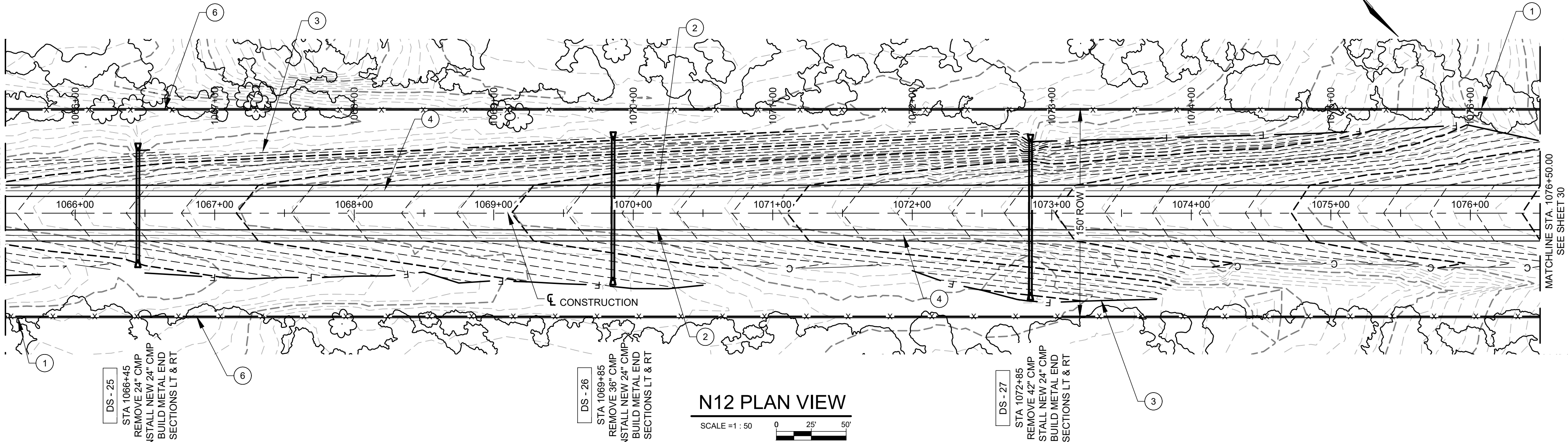
AGENCY LINE TO WHEATFIELDS LAKE

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PHOENIX, AZ 85008
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ROUTE N12

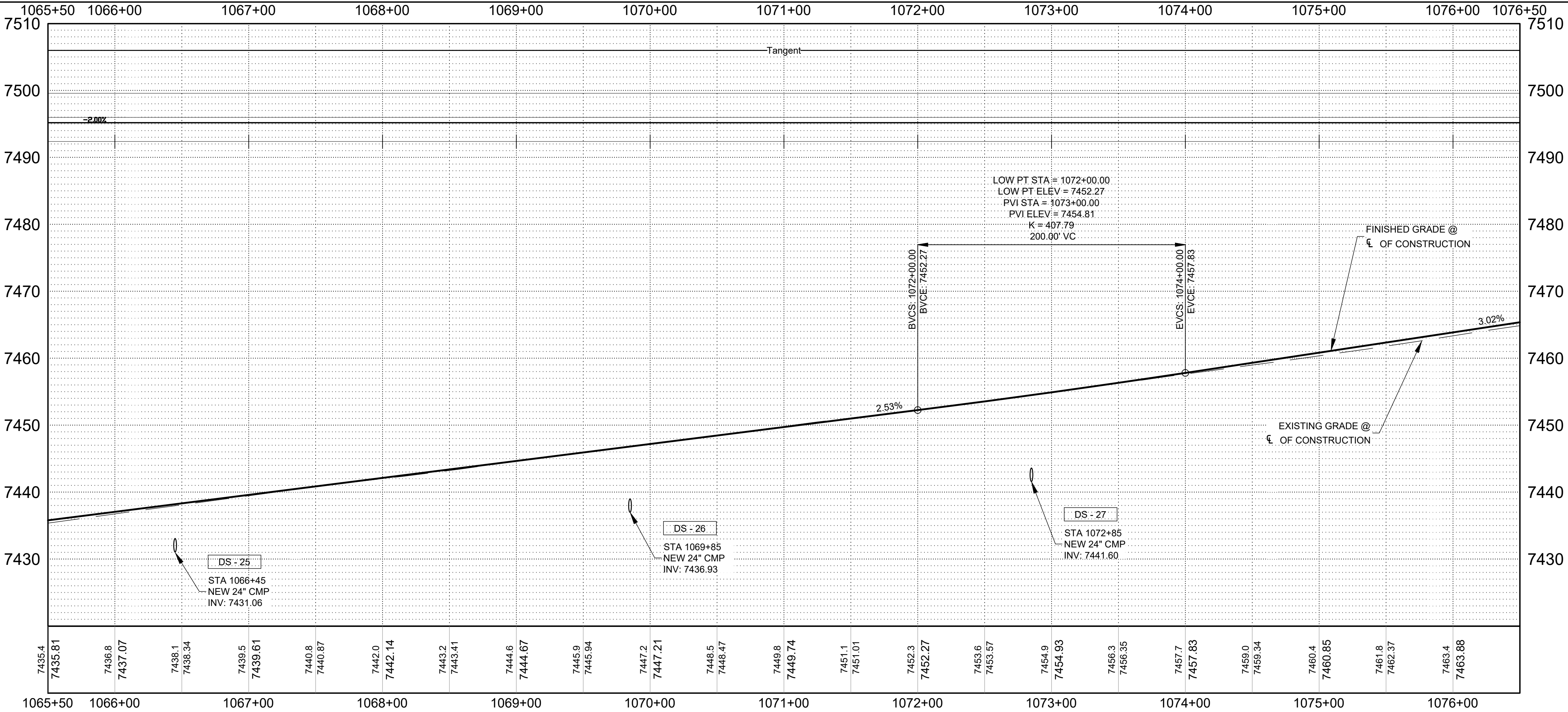
PLAN AND PROFILE

REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.	
CHECK	ASF	N12	29	120



N12 PLAN VIEW

SCALE = 1 : 50



N12 PROFILE VIEW

SCALE = 1 : 50

VERT = 1 : 10

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	30	120

GENERAL NOTES

- CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
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- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

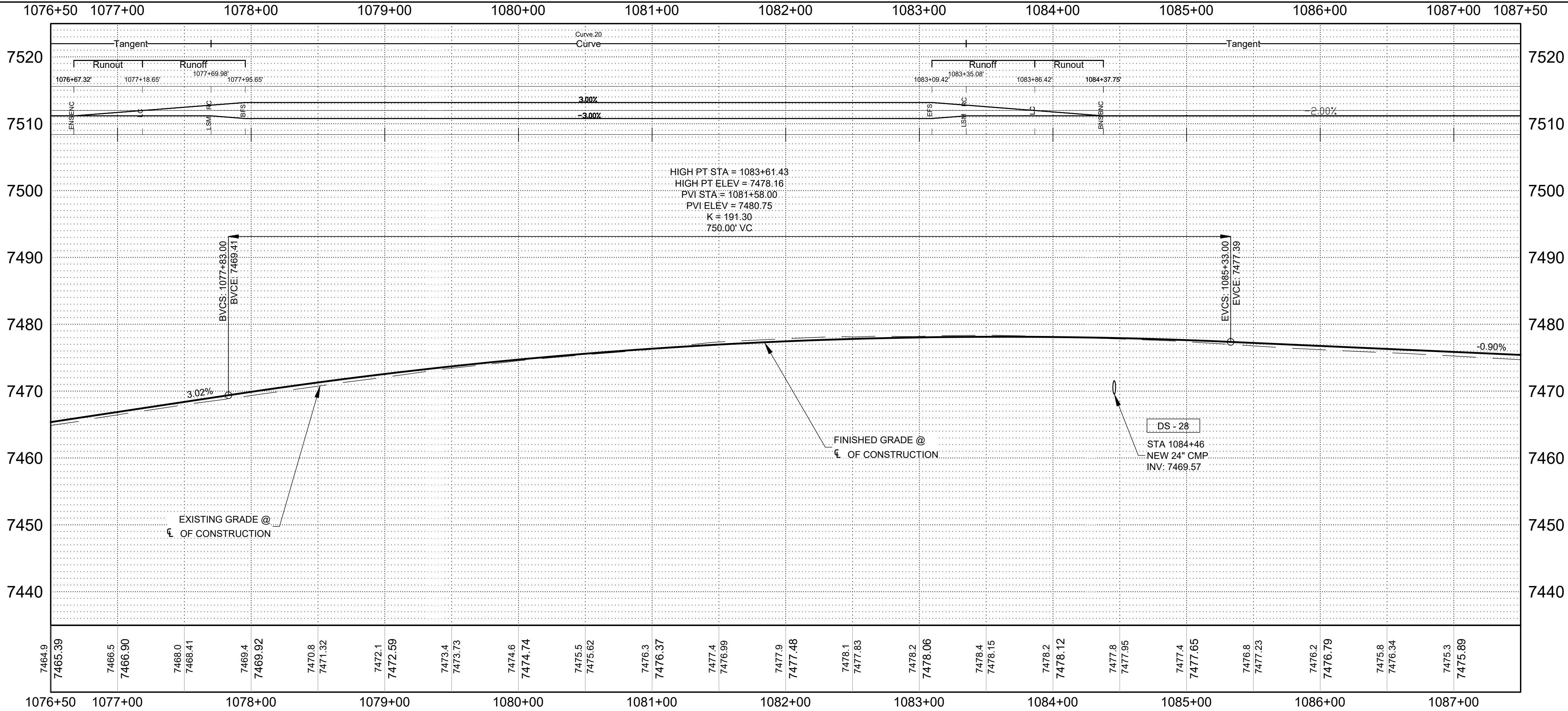
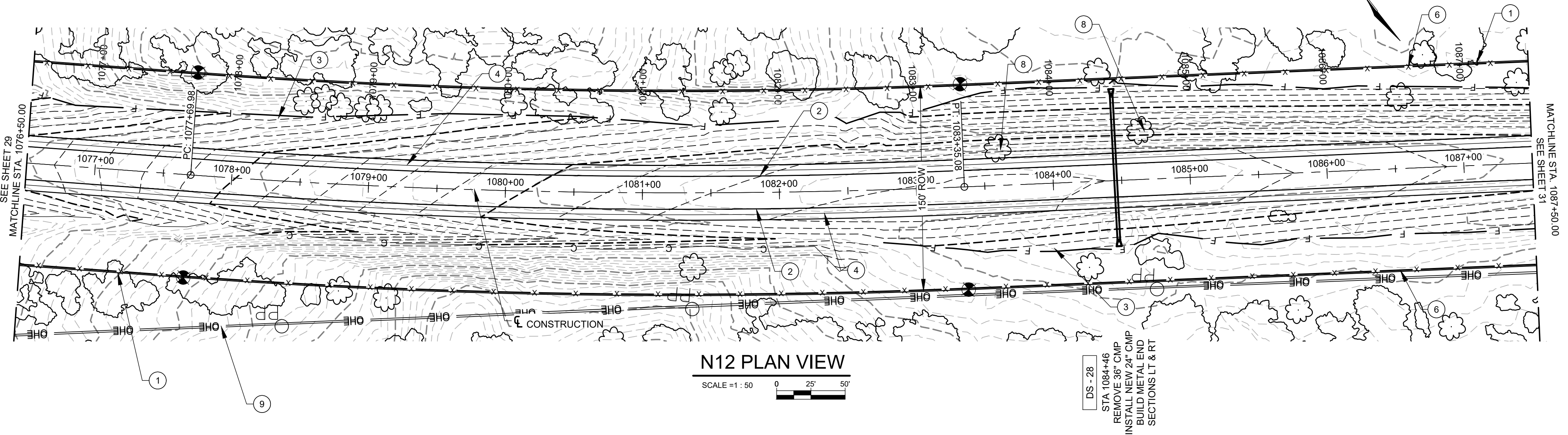
- 1 EXISTING ROW
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- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC

LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701 Registered Professional Engineer (Civil) 76131 JOSHUA BROWN Data Signed: 03/09/2025 ARIZONA, U.S.A. <td colspan="5">ROUTE N12</td>	ROUTE N12				
	PLAN AND PROFILE				
REVISIONS	NO.	DATE	REMARKS		BY
DESIGN	JEB	WCEA NO. 1710009012		DATE	2025
DRAWN	ERG	N12		SHEET NO.	
CHECK	ASF			30	- 120



N12 PROFILE VIEW

SCALE = 1 : 50
VERT = 1 : 10

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	31	120

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
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LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT

AGENCY LINE TO WHEATFIELDS LAKE

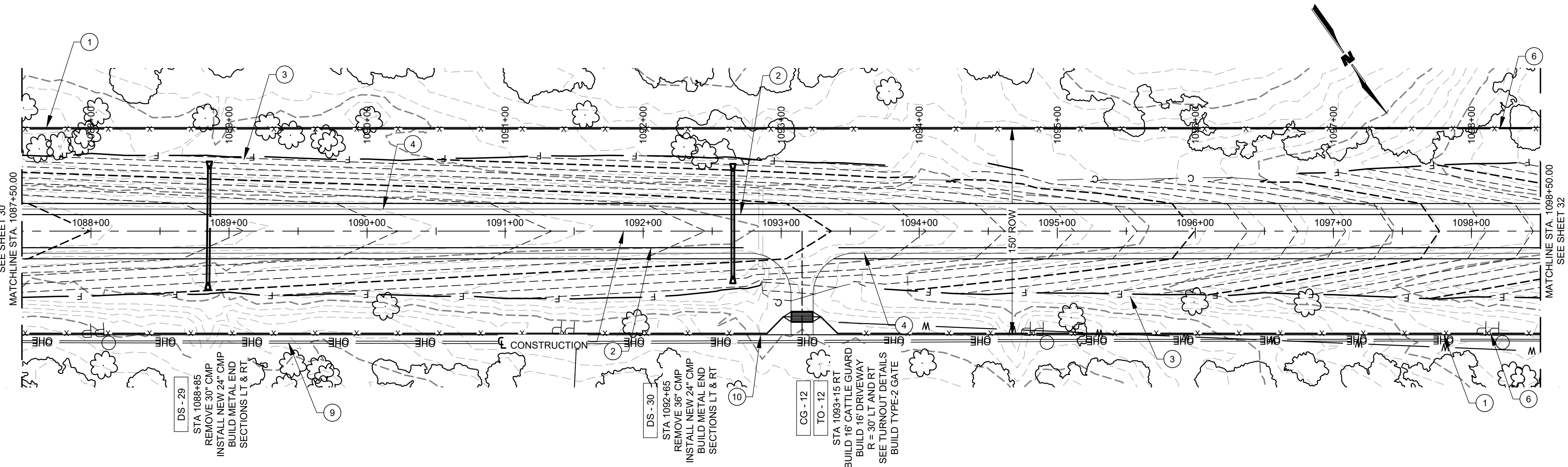
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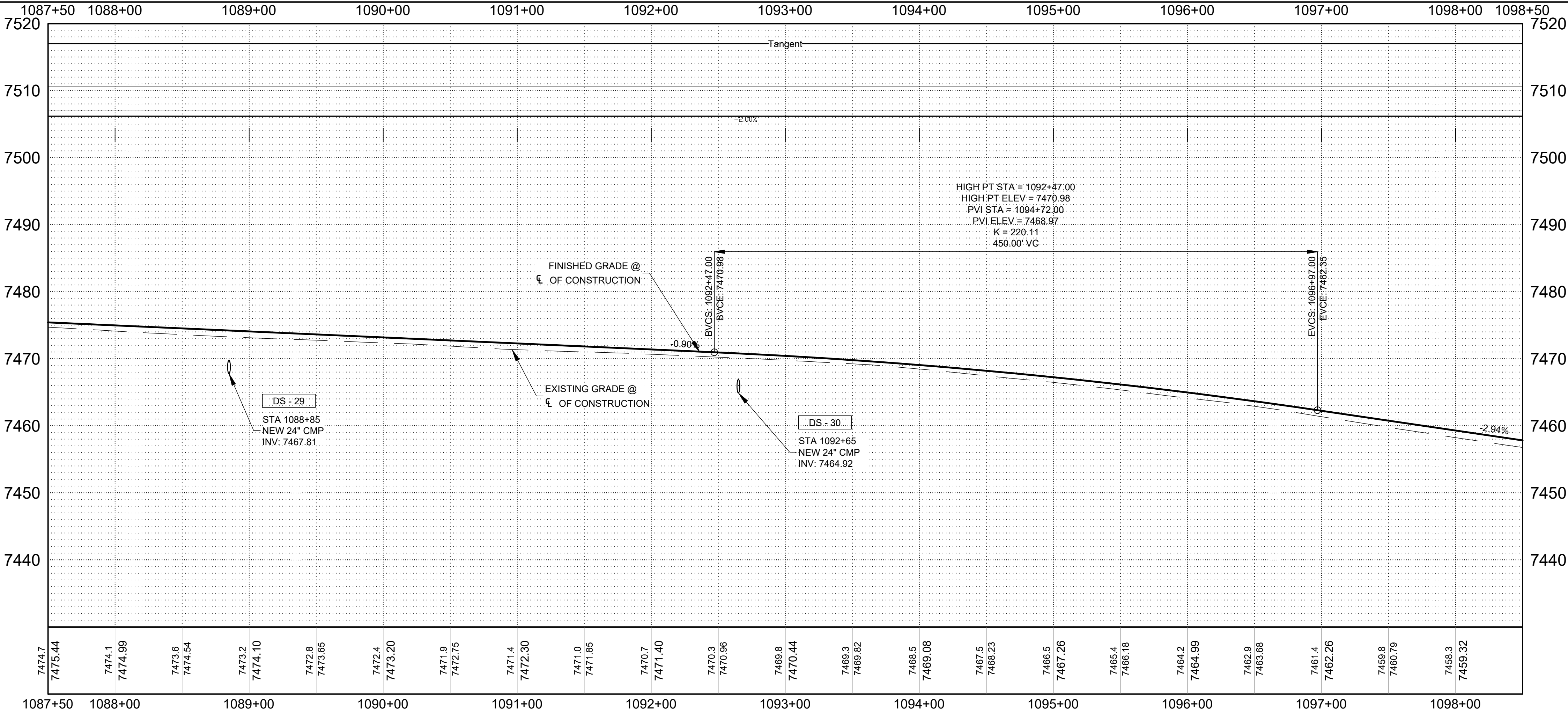
PLAN AND PROFILE

REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG	N12	SHEET NO.	
CHECK	ASF		31 - 120	



N12 PLAN VIEW

SCALE = 1 : 50



N12 PROFILE VIEW

SCALE = 1 : 50

VERT = 1 : 10

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	33	120

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
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LEGEND

- CG - XX CATTLE GUARD
- TO - XX TURNOUT/DRIVEWAY
- DS - XX DRAINAGE STRUCTURE
- DSTO - XX DRAINAGE STRUCTURE AT TURNOUT

AGENCY LINE TO WHEATFIELDS LAKE

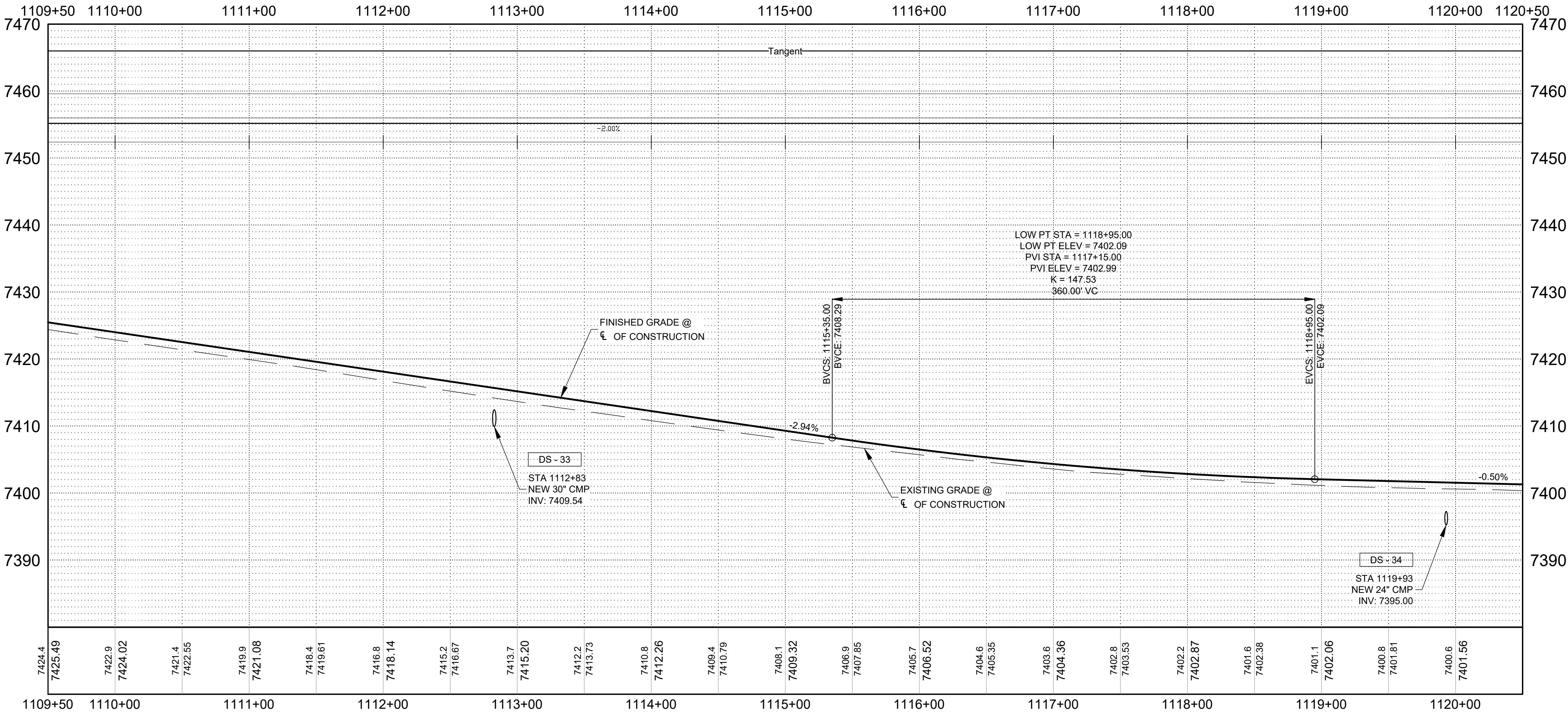
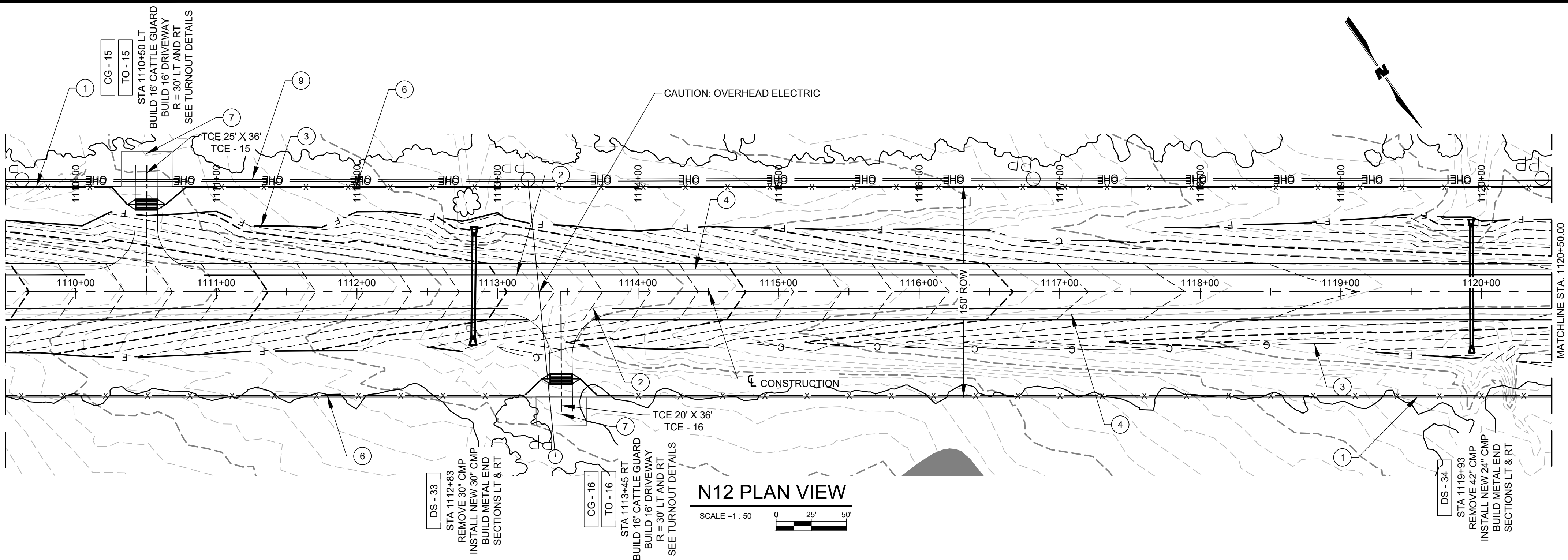
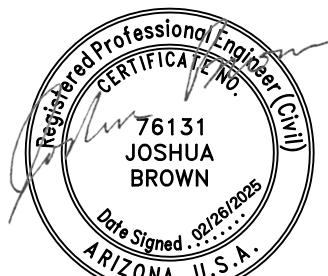
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(602) 283-2701

ROUTE N12

PLAN AND PROFILE

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DESIGN	JEB	WCEA NO. 1710009012		DATE 2025
DRAWN	ERG			SHEET NO.
CHECK	ASF	N12		33 - 120

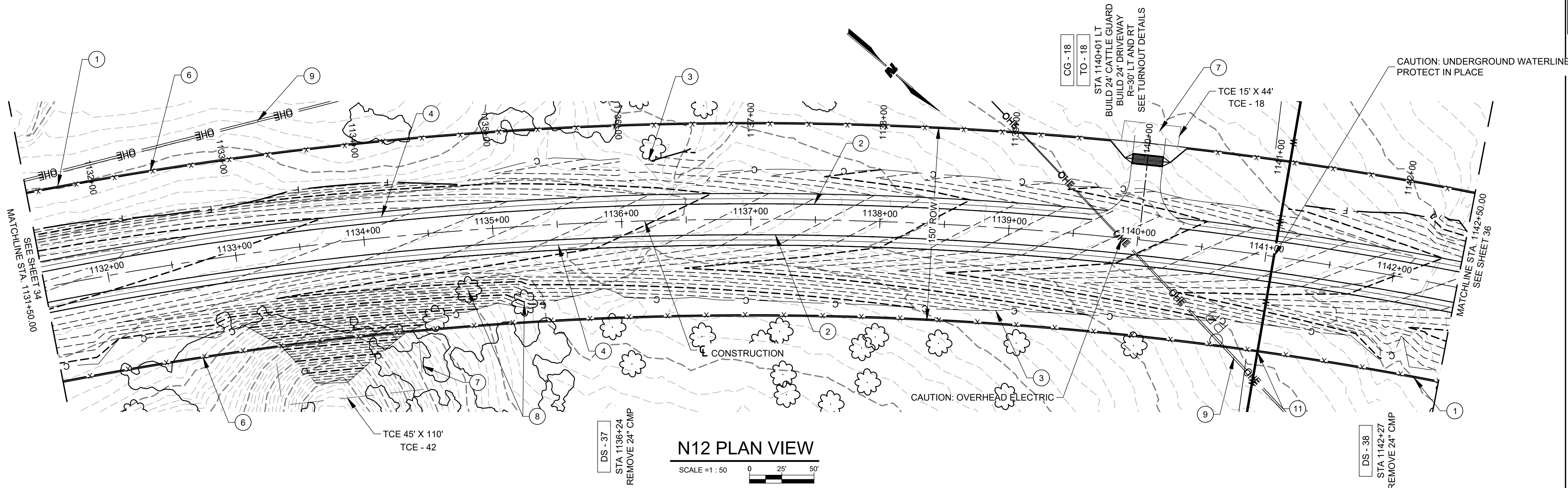


N12 PROFILE VIEW

SCALE = 1 : 50

VERT = 1 : 10

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	35	120



GENERAL NOTES

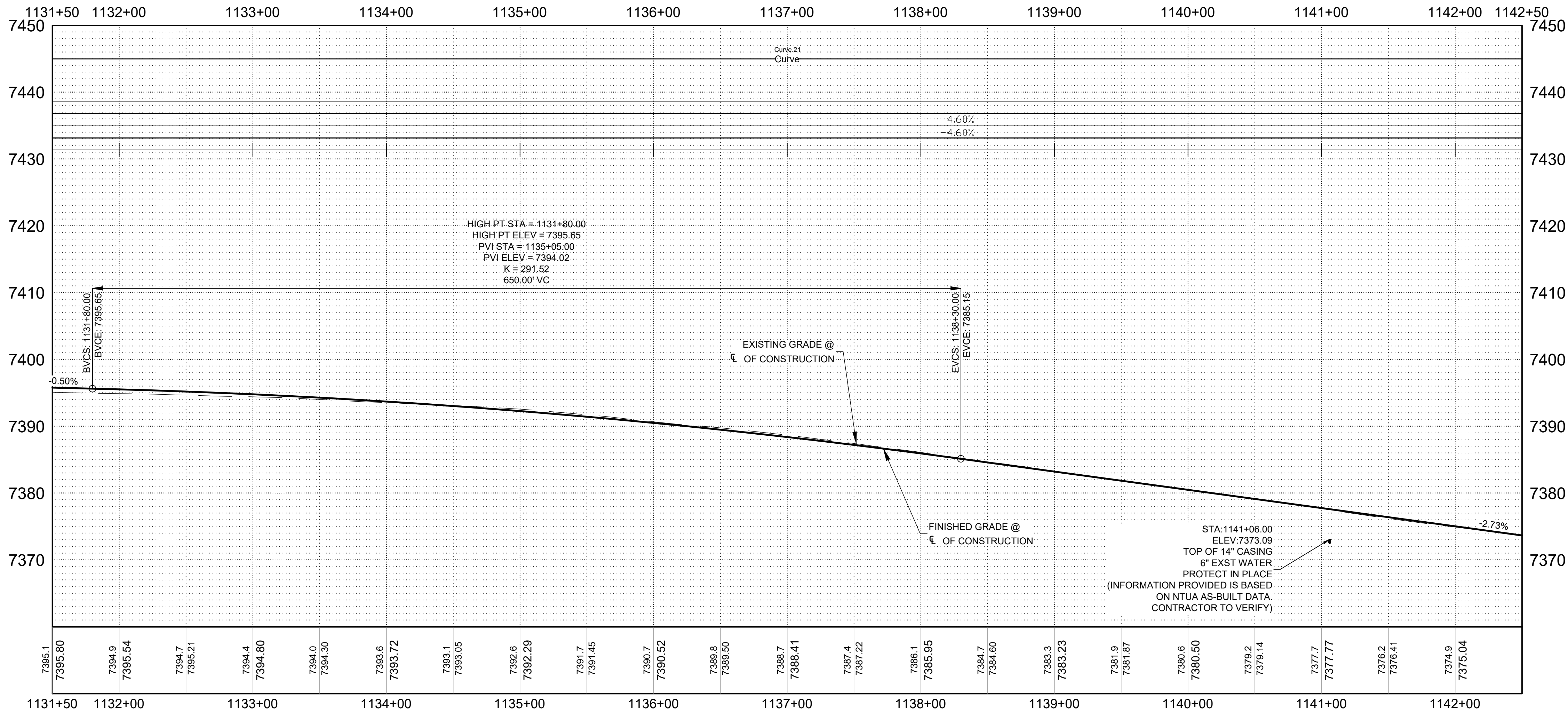
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KEYNOTES

- 1 EXISTING ROW
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- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC
- 11 EXISTING WATER LINE

LEGEND

- CG - XX CATTLE GUARD
- TO - XX TURNOUT/DRIVEWAY
- DS - XX DRAINAGE STRUCTURE
- DSTO - XX DRAINAGE STRUCTURE AT TURNOUT



AGENCY LINE TO WHEATFIELDS LAKE

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PLAN AND PROFILE



REVISIONS	NO.	DATE	REMARKS	BY
DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
DRAWN	ERG		SHEET NO.	
CHECK	ASF	N12	35	120

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	37	120

GENERAL NOTES

- CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
- CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

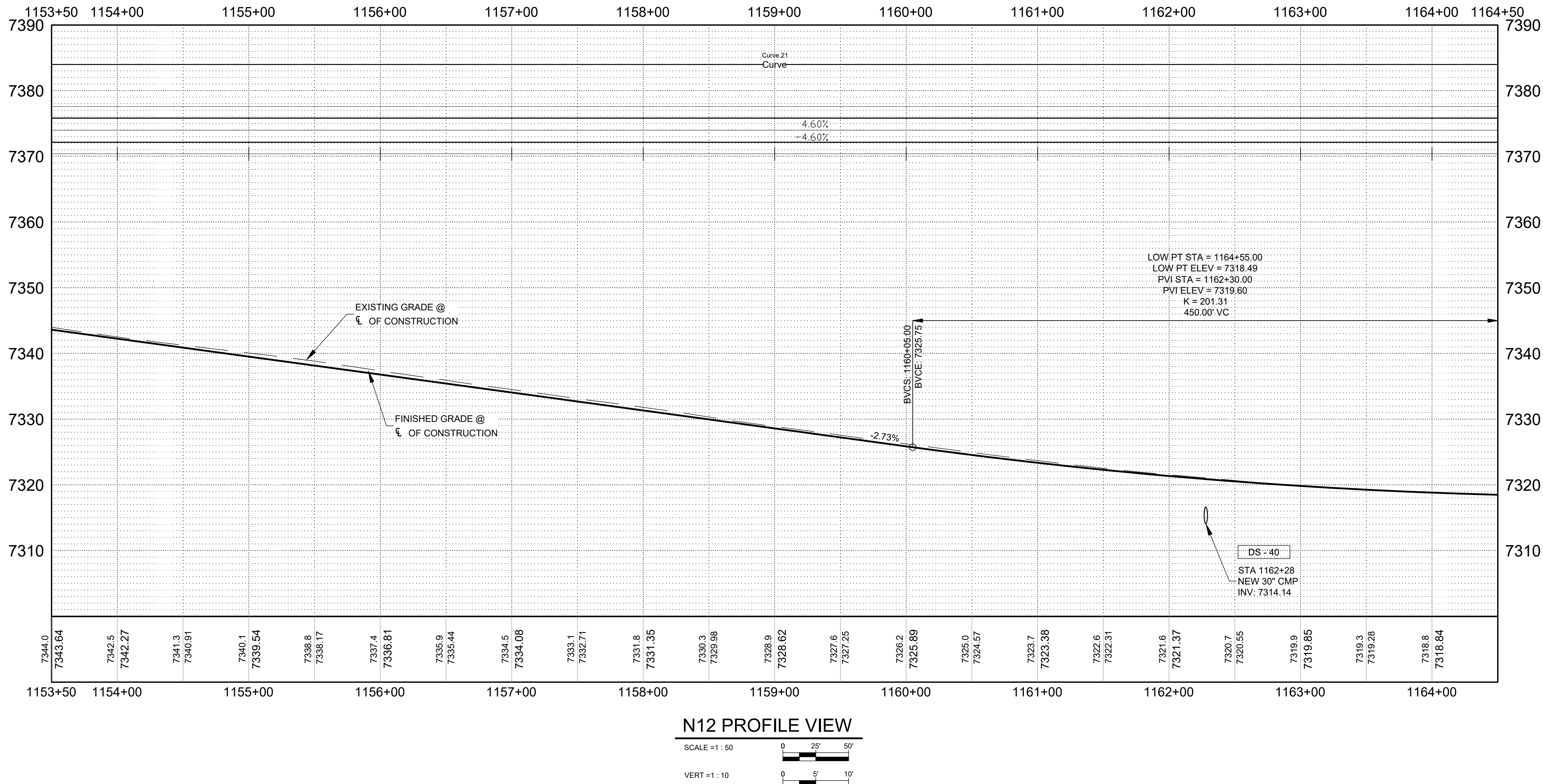
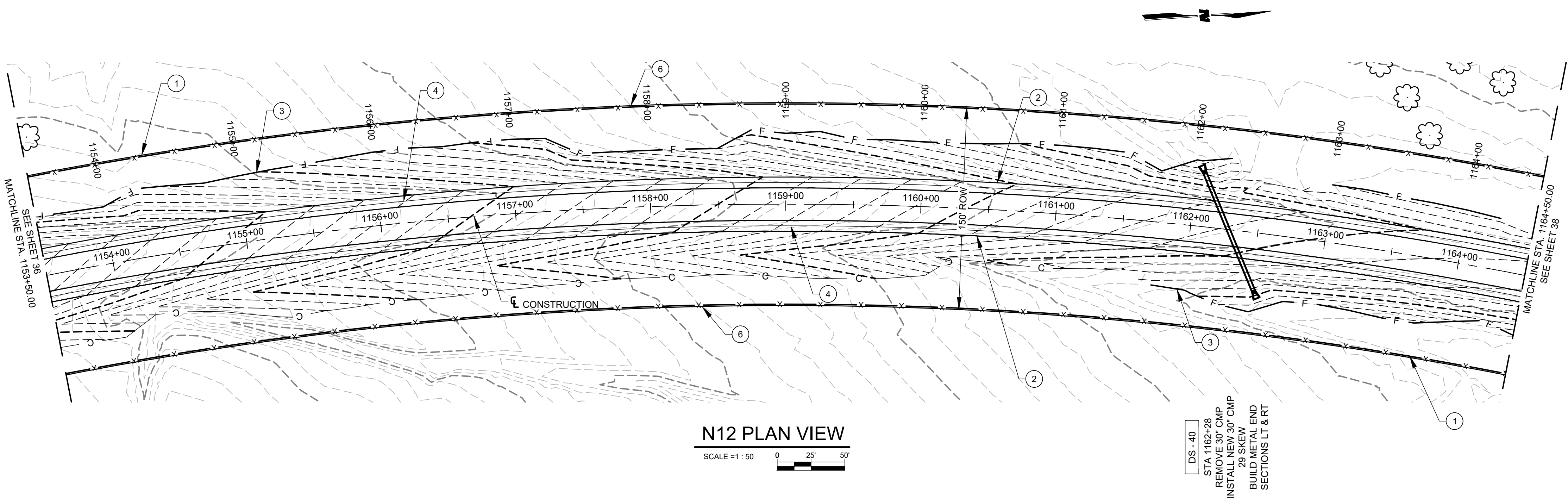
- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 9 EXISTING OVERHEAD ELECTRIC

LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701	ROUTE N12				
	PLAN AND PROFILE				
	REVISIONS	NO.	DATE	REMARKS	BY
	DESIGN	JEB	WCEA NO. 1710009012	DATE	2025
	DRAWN	ERG	N12	SHEET NO.	
	CHECK	ASF		37 - 120	



REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	38	120

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW LOCATIONS OF DRAINAGE STRUCTURES SHOWN HEREIN AND BUILD NEW STRUCTURES OR CLEAN EXISTING STRUCTURES PER THE FULL BUILD NOTES SHOWN ON THE DRAINAGE STRUCTURE SHEETS OF THE PLAN SET.
2. CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW OR REMOVE EXISTING DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
3. INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- 1 EXISTING ROW
- 2 EDGE OF TRAVEL WAY
- 3 SLOPE LIMITS
- 4 EDGE OF PAVEMENT
- 5 INSTALL GUARDRAIL
- 6 NEW ROW FENCE
- 7 TEMPORARY CONSTRUCTION EASEMENT
- 8 TREE REMOVAL
- 10 TYPE 1 CATTLE GATE

LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT

AGENCY LINE TO WHEATFIELDS LAKE

WILSON

& COMPANY

410 NORTH 44TH STREET

SUITE 460

PHOENIX, AZ 85008

(602) 283-2701

ROUTE N12

PLAN AND PROFILE

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CHECK

JEB

ERG

ASF

WCEA NO. 1710009012

N12

DATE

SHEET NO.

2025

38 - 120

Registered Professional Engineer (Civil)

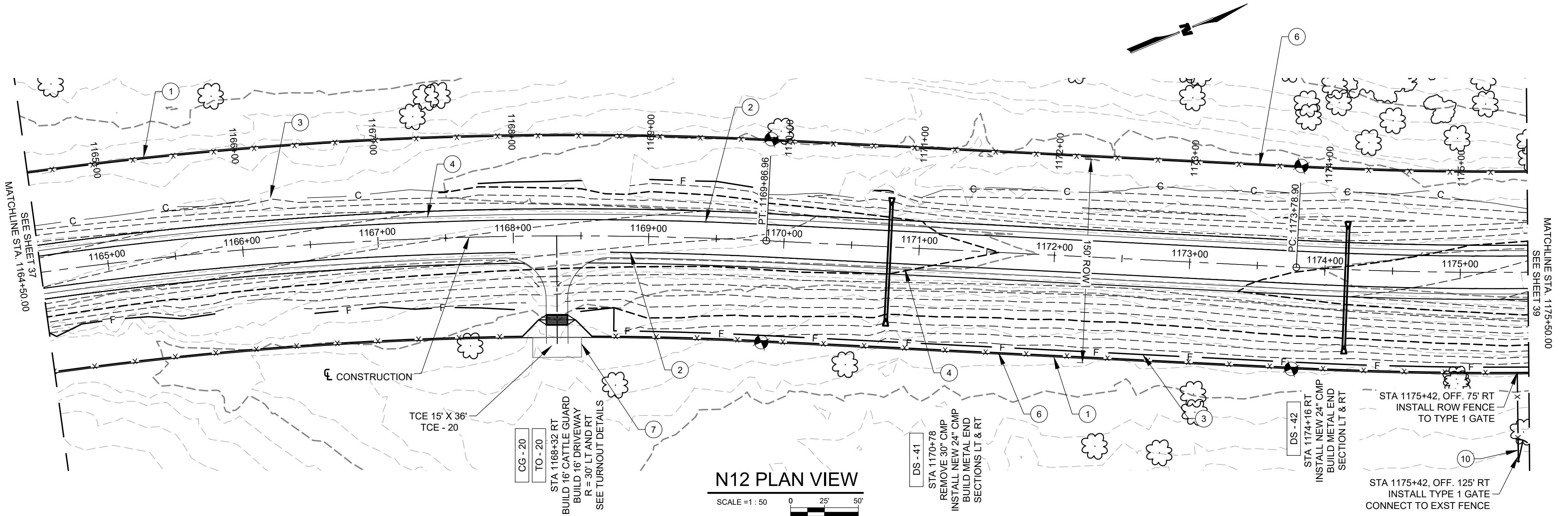
CERTIFICATE NO.

76131

JOSHUA BROWN

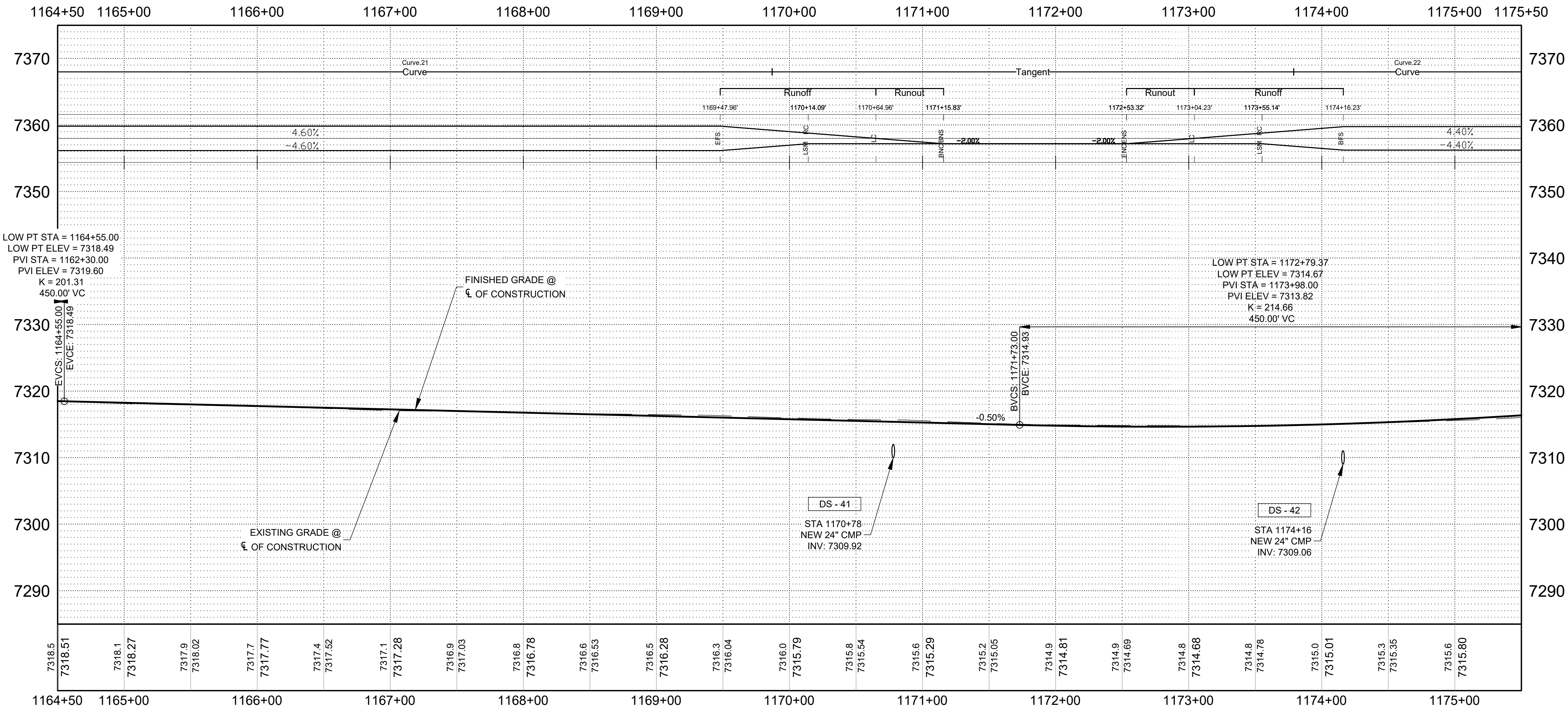
Date Signed 03/03/2025

ARIZONA, U.S.A.



N12 PLAN VIEW

SCALE = 1 : 50



N12 PROFILE VIEW

SCALE = 1 : 50

VERT = 1 : 10

REGION	STATE	RESERVATION	ROUTE NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NAVAJO	AZ	NAVAJO	N12	1710009012	40	120

GENERAL NOTES

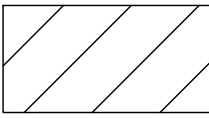
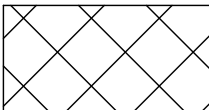
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- CONTRACTOR SHALL REVIEW LOCATIONS OF DRIVEWAYS SHOWN HEREIN AND BUILD NEW OR REMOVE EXISTING DRIVEWAYS PER THE FULL BUILD NOTES ON THE TURNOUT PROFILES SHEETS ON THIS PLAN SET.
- INSTALL DELINEATORS AS SHOWN ON BIA STD 3: OBJECT MARKERS.

KEYNOTES

- EXISTING ROW
- EDGE OF TRAVEL WAY
- SLOPE LIMITS
- EDGE OF PAVEMENT
- INSTALL GUARDRAIL
- NEW ROW FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- TREE REMOVAL

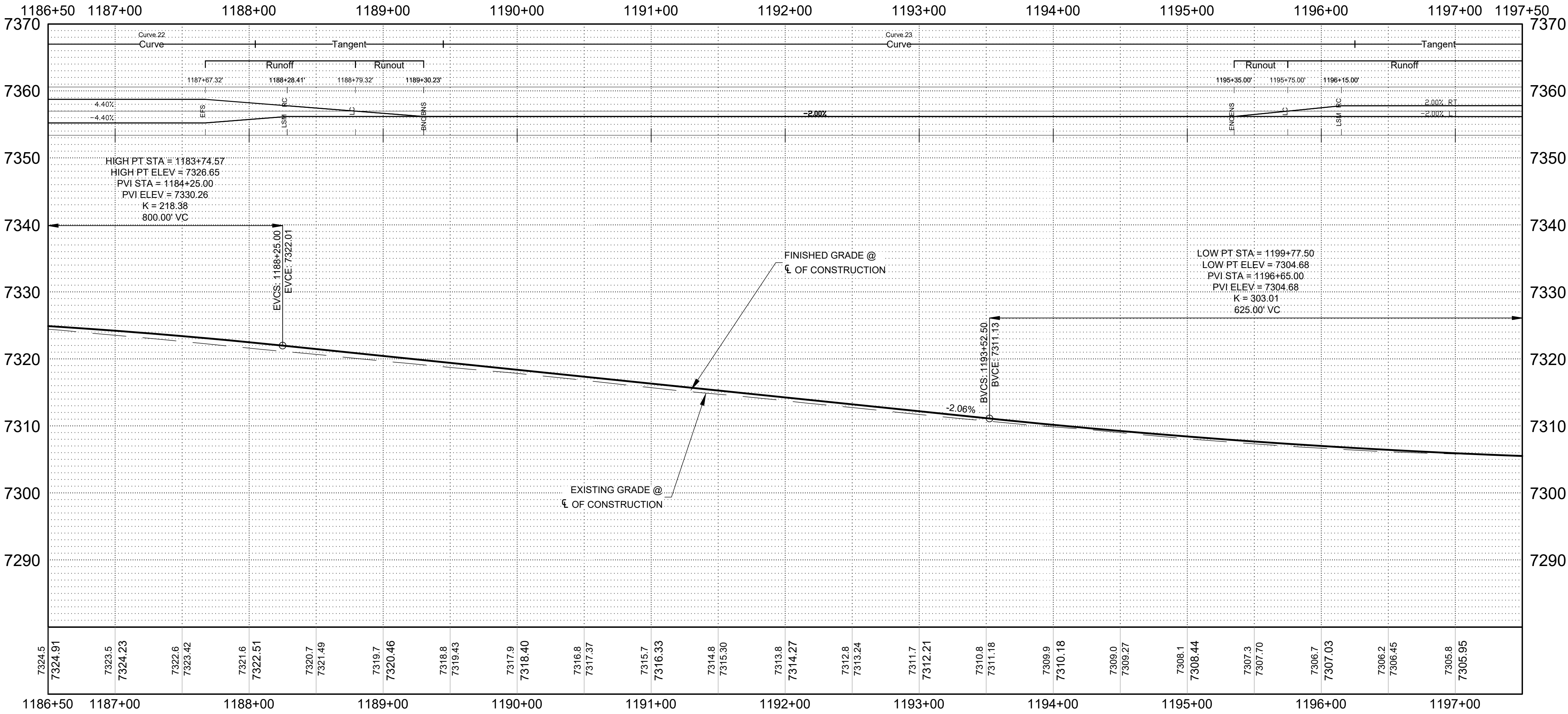
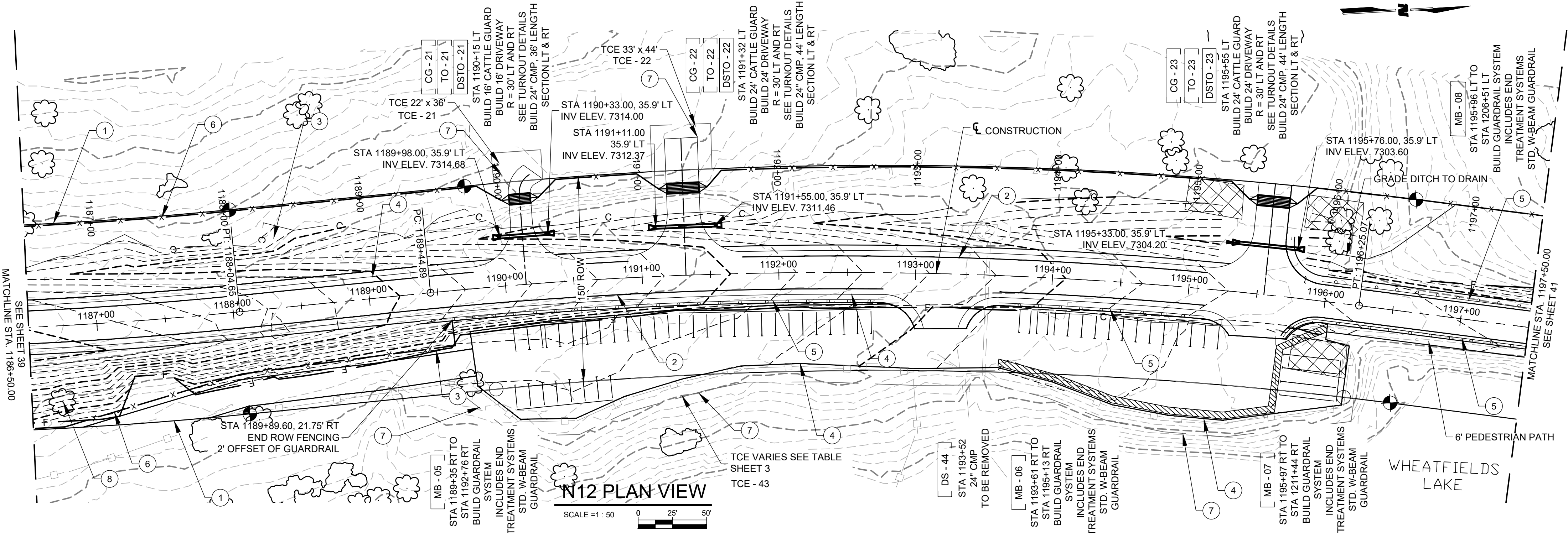
LEGEND

CG - XX	CATTLE GUARD
TO - XX	TURNOUT/DRIVEWAY
DS - XX	DRAINAGE STRUCTURE
DSTO - XX	DRAINAGE STRUCTURE AT TURNOUT

-  POSSIBLE AREA FOR TIMBER CHIPPING. CONTRACTOR SHALL NOT PLACE CHIPPED MATERIAL WITHIN 3' OF PROPOSED PIPE INLETS OR OUTLETS AND THEIR CORRESPONDING FLOWLINES.
-  POSSIBLE AREA FOR STORAGE OF CHOPPED TREES, PROCESSED INTO MANAGEABLE SIZES FOR AREA RESIDENTS TO RECEIVE.

AGENCY LINE TO WHEATFIELDS LAKE

WILSON & COMPANY 410 NORTH 44TH STREET SUITE 460 PHOENIX, AZ 85008 (602) 283-2701		ROUTE N12			
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N12 PROFILE VIEW

