NOTE: SEE SHEET 1A FOR PLAN SHEET LAYOUT AT TIME OF INVESTIGATION

CONTENTS <u>LINE</u> XSECT **STATION PLAN** PROFILE 353+22.84-635+00.00 47-64 97-255 4-28 -L-RAMP A @ -YI-65 0+00.00-21+11.85 5-6 256-258 RAMP D @ -YI-0+00.00-23+72.3 5-6 66 LOOP A @ -YI-0+00.00-11+20.63 5 67 259-263 LOOP D @ -YI-67 0+00.00-11+72.36 5 RAMP A @ -Y9-0+00.00-20+93.98 19-20 68 RAMP B @ - Y9-69 0+00.00-19+96.30 18-19 RAMP C @ -Y9-0+00.00-16+26.54 70 18-19 RAMP D @ -Y9-0+00.00-16+16.51 19-20 71 LOOP B @ -Y9-0+00.00-12+88.76 19 72 RAMP A @ -YI4-0+00.00-18+05.44 73 25-26 RAMP ALC -Y14-2+01.97-5+95.56 25 74 RAMP B @ -YI4-0+00.00-12+78.33 24-25 75 1+09.68-6+69.55 75 RAMP Ble -YI4-25 RAMP C @ -YI4-0+00.00-12+89.44 24-25 76 C RAMP CIO -YI4-25 77 0+00.00-3+45.69 RAMP D @ -YI4-0+00.00-16+87.22 25-26 78 RAMP DI@ -Y14-1+47.61-3+98.6 25 79 \sim 1+90.00-42+40.00 5,28-29 80-81 - Y |--Y2-23+85.00-33+25.00 7,30 82 -Y3-17+90.00-25+54.02 12, 31-32 82 -Y4-15+02.00-34+76.31 14.33-34 83 -Y64-10+00.00-19+41.19 17,46 84 -Y8A-33+00.00-35+96.71 38 86 -Y8- REV 10+32.02-36+00.00 36-38 85 -Y9-10+70-00-36+00-00 19, 35-36 87 - YII-26+00.00-69+75.00 23-24, 41, 43-44 88-89 25,39-42 -YI4-12+50.00-56+76.76 90-91 - YI6- REV 10+00.00-20+09.90 40.45 92 -YI6A-13+50.00-15+00.65 45 93 -Y17-10+20.47-38+40.15 5-6,29 94-95 - Y18-12+00.00-16+56.58 14, 34 96 -YI- DETOUR 12+64.08-27+35.00 5,28 II+98.88-23+44.80 -Y9- DETOUR 19 SAMPLE RESULTS 265-267 CORE PHOTOS 268-277

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STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS GEOTECHNICAL ENGINEERING UNIT

ROADWAY SUBSURFACE INVESTIGATION

PROJ. REFERENCE NO. 34497.1.2 (R-2707C) F.A. PROJ. <u>NHF-74(14)</u> COUNTY __CLEVELAND

PROJECT DESCRIPTION US 74 SHELBY BYPASS FROM WEST OF NC 226 TO EAST OF NC 150

INVENTORY

This Report is for R-2707C but attached information is relevant to R-2707B. Please see attached information in addition to Subsurface **Investigation for R-2707B.**

KOTE - THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N.C. DEPARTMENT OF TRANSPORTATION AS BEING ACCURATE NOR IT IS CONSIDERED TO BE PART OF THE PLANS, SPECIFICATIONS, OR CONTRACT FOR THE PROJECT.

NOTE - BY HAVING REQUESTED THIS INFORMATION THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAINS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE

STATE	STATE PR	A SHEEP	Т	TOTAL SHEETS					
N.C.		R-2707C	1		277				
STATE	PROJ. NO.	F. A. PROJ. NO.	DESC	RIPTIC	DN				
344	97.1.4	NHF-74(14)		P.E.					
			RW	& U	TIL,				
			1						

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING, AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES THE VARIOUS FIELD BORING LOGS, ROCK CORES, AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION. GEOTECHNICAL ENGINEERING UNIT AT (919) 250-4088, NEITHER THE SUBSURFACE PLANS AND REPORTS. NOR THE FIELD BORING LOGS, ROCK CORES, OR SOIL TEST DATA ARE PART OF THE CONTRACT.

CENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BDUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORNIGS OR BETWEEN SAMPLED STRATA WITHIN THE BORHOLE. THE LABORATORY SAMPLE DATA AND THE INSTUI (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABLITY INHERENT IN THE STANDARD TEST NETHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTLIRE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SO MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES. PRECIPITATION, AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS RAFE PRELIMMARY ONLY AND IN MARY CASES THE FINAL DESIGN DETAILS ARE DEFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN NFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE DEPARTMENT AS TO THE TYPE OF NATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THIS PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION

_	R. W. TODD
	J. P. ROGERS
· _	M. L. SMITH
_	C. E. BURRIS
	A. C. SMITH
_	·
	·
_	
INVESTIGATED BY	J. P. ROGERS
CHECKED BY	C. B. LITTLE
SUBMITTED BY	C. B. LITTLE
DATE	NOTETER AND
IOS PORA	

PERSONNEL ת הה*ד עו* פ



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

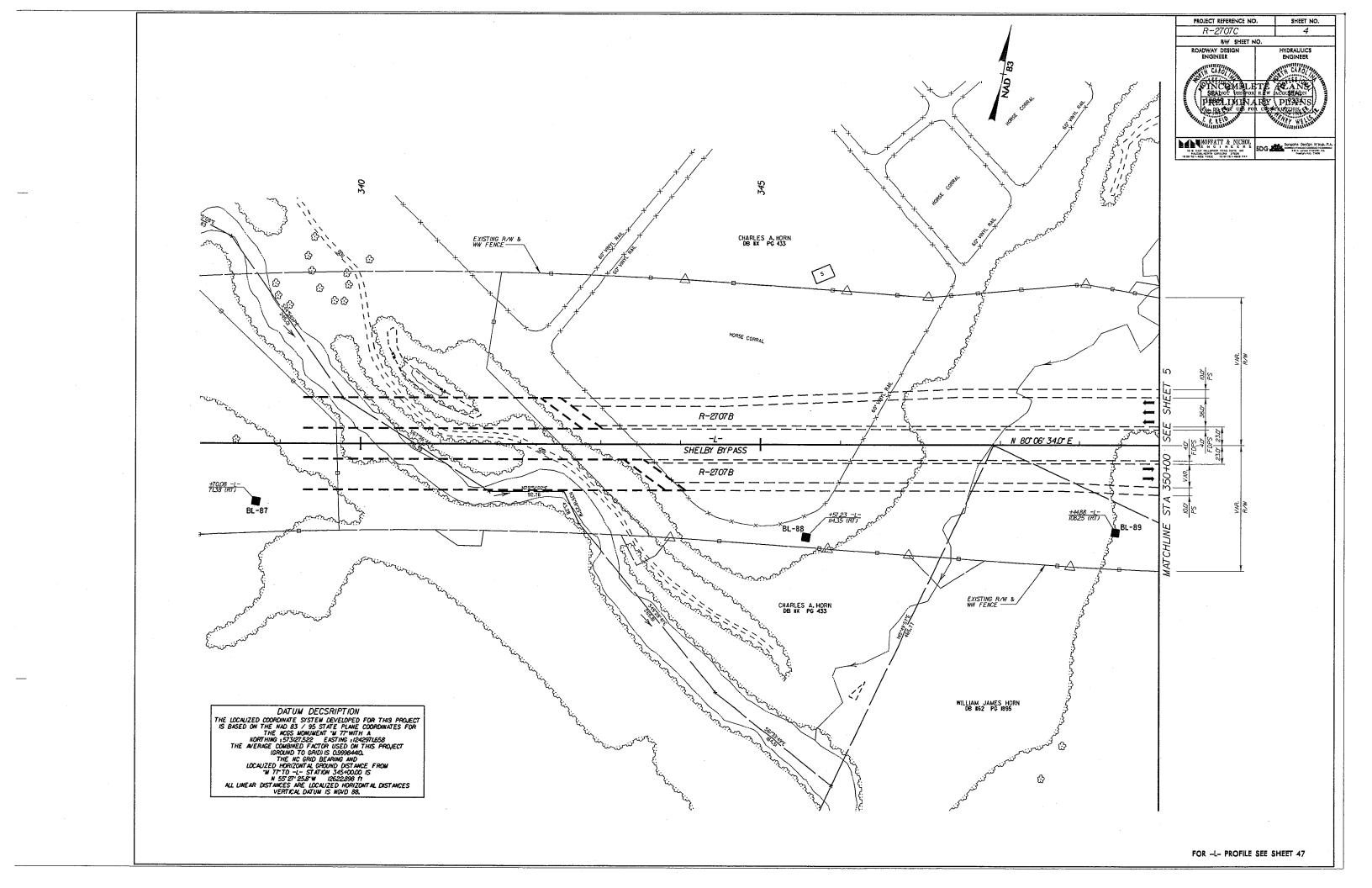
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

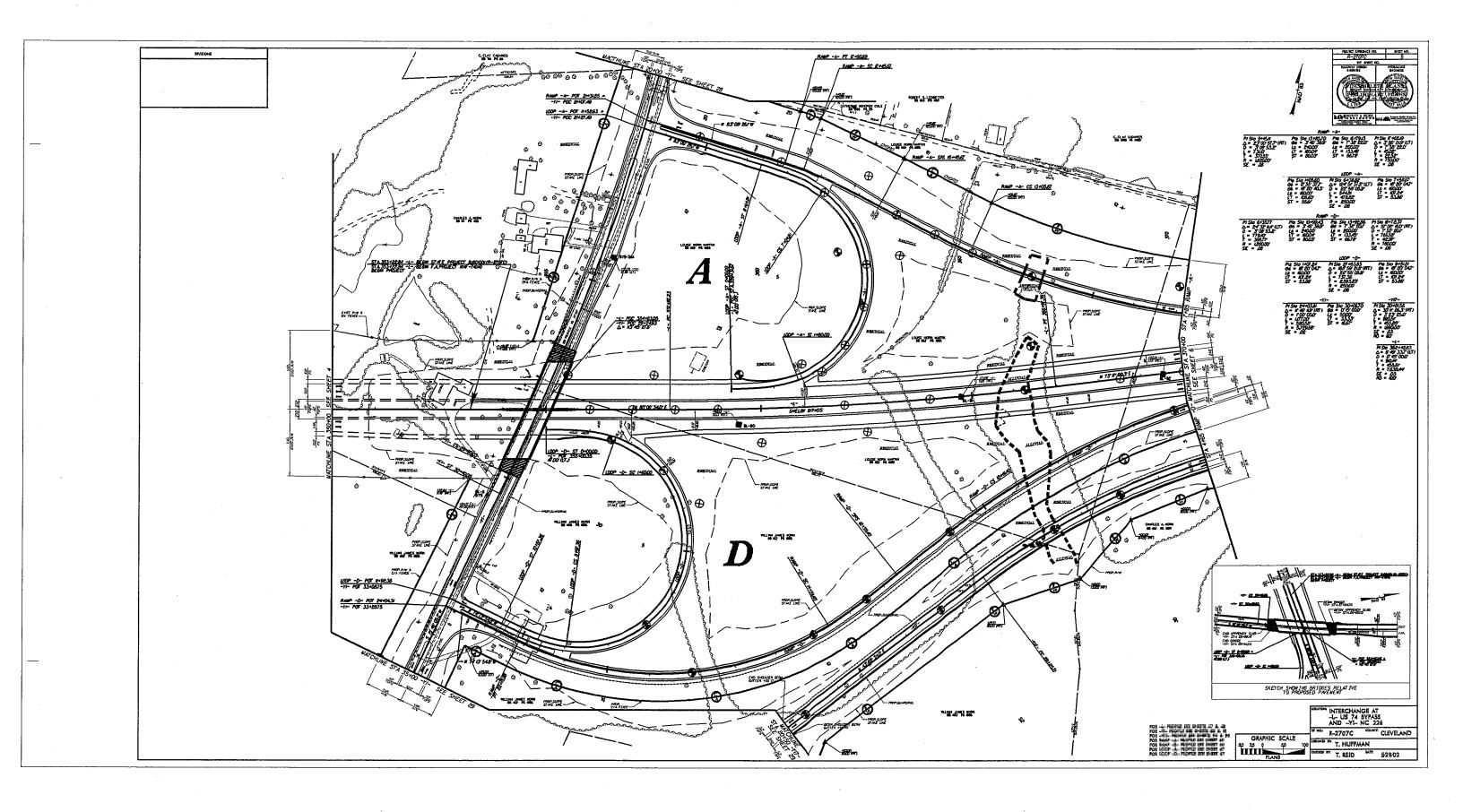
· · ·	CON 1						,				
	BE THE UNCONSOLIDATED, :	DESCRIPTION		WELL GRADED - INDICATES A	GRADATION A GOOD REPRESENTATION OF PARTICLE SIZES	FROM FINE TO COARSE.		CK IS NON-COASTAL PLAIN M		TESTED, WOULD YIELD SPT	
THAT CAN BE PENETRATE	ED WITH A CONTINUOUS FLI CCORDING TO STANDARD PEN	GHT POWER AUGER, AND YIE	LD LESS THAN	PODRLY GRADED	SOIL PARTICLES ARE ALL APPROXIMATELY T		SPT REFU	IE INDICATES THE LEVEL AT JSAL IS PENETRATION BY A	SPLIT SPOON SAM	PLER EQUAL TO DR LESS TH	HAN 0.1 FOOT I
CLASSIFICATION IS BASE	EO ON THE AASHTO SYSTEM. XTURE, MDISTURE, AASHTO CL	BASIC DESCRIPTIONS GENE	RALLY SHALL INCLUDE:	GAP-GRADED - INDICATES A	MIXTURE OF UNIFORM PARTICLES OF TWO OR ANGULARITY OF GRAINS		OF WEATH	COASTAL PLAIN NATERIAL, T HERED ROCK.		TWEEN SOIL AND ROCK IS D	OFTEN REPRESE
AS MINERALOGICAL COMP	POSITION, ANGULARITY, STRUC	TURE, PLASTICITY, ETC. EXA	MPLE:		NESS OF SOIL GRAINS IS DESIGNATED BY TH			TERIALS ARE TYPICALLY DIV			
	RY STIFF, GRAY, SULTY CLAY, HOUST WITH IN IL LEGEND AND (SUBANGULAR, SUBROUNDED, C	MINERALOGICAL COMPOSITI	ON	RDCK (WR)		IN-COASTAL PLAIN IOWS PER FOOT IF	MATERIAL THAT WOULD YIEL TESTED.	LD SPT N VAL
GENERAL GRA	IL LEGEND AND F NULAR MATERIALS 5% PASSING #200)	SILT-CLAY MATERIALS	ORGANIC MATERIALS	MINERAL NAMES SUCH AS DU WHENEVER THEY ARE CONSID	ARTZ, FELOSPAR, MICA, TALC, KAOLIN, ETC. ARE		CRYSTALLINE ROCK (CR)	" (I) W		IN IGNEOUS AND METAMORPH FUSAL IF TESTED. ROCK TY ST.ETC.	
0001	A-3 A-2	A-4 A-5 A-6 A-			COMPRESSIBILITY		NON-CRYSTAL ROCK (NCR)	FINE FIN	VE TO COARSE GRA	IN METAMORPHIC AND NON-C HAT WOULD YEILD SPT REFI	
CLASS. A-1-8 A-1-6 SYMBOL	A-2-4 A-2-5 A-2-6 A-	A CONTRACT OF A	6 A-3 A-6, A-7	SLIGHTLY COMPRES	RESSIBLE LIQUID LIMI	T LESS THAN 31 T EDUAL TO 31-50	COASTAL PLA	INC	CLUDES PHYLLITE,	SLATE, SANDSTONE, ETC. MENTS CEMENTED INTO ROCK	
2 PASSING				HIGHLY COMPRESS		T GREATER THAN 50	SEDIMENTARY (CP)	Y ROCK LL_ISP1	T REFUSAL. ROCK ELL BEDS. ETC.	TYPE INCLUDES LIMESTONE,	SANOSTONE, CE
= 10 50 MX			GRANULAR SILT- MU		GRANULAR SILT - CLAY				WEATH	ERING	
	10 MX 35 MX 35 MX 35 MX 35	MX 36 MN 36 MN 36 MN 36 I	SDILS CONC PE	TRACE OF ORGANIC MATTER	SOILS SDILS 2 - 3% 3 - 5% T	<u>Other Material</u> Race 1 - 10%	FRESH	ROCK FRESH, CRYSTALS BI HAMMER JF CRYSTALLINE.		MAY SHOW SLIGHT STAININ	NG. ROCK RINGS
LIQUID LIMIT		MN 40 MX 41 MN 48 MX 41 F		LITTLE ORGANIC MATTER MODERATELY ORGANIC	3 - 5% 5 - 12% L	ITTLE 10 - 210% DME 20 - 35%	VERY SLIGHT			DME JOINTS MAY SHOW THI	N CLAY COATI
PLASTIC INDEX 6 MX GROUP INDEX 0	╞─┼┼╌┼─┺═	MN 10 MX 10 MX 11 MN 11 M	N LITTLE OR HIGH		>10% >20% H	IGHLY 35% AND ABOVE	(V SLI.)	CRYSTALS ON A BROKEN : OF A CRYSTALLINE NATUR		INE BRIGHTLY, ROCK RINGS	UNDER HAMME
USUAL, TYPES STONE FRAGS.	0 0 4 MX		AMOUNTS OF SOIL	·	GROUND WATER		SLIGHT	ROCK GENERALLY FRESH,	JOINTS STAINED A	ND DISCOLORATION EXTENDS	
DE HALTOR GRAVEL AND	FINE SILTY OR CLAYEN SAND GRAVEL AND SAN		DRGANIC MATTER		LEVEL IN BORE HOLE IMMEDIATELY AFTER	ORILLING	(SL1.)			N GRANITOIO ROCKS SOME O STALLINE ROCKS RING UNDE	
GEN. RATING		I	FAIR TO DOOD		WATER LEVEL AFTER <u>24</u> HOURS		MODERATE			OLORATION AND WEATHERING	
AS A EXCE SUBGRADE	ELLENT TO GOOD	FAIR TO POOR	POOR POOR UNSUI	TABLE	D WATER, SATURATED ZONE, DR WATER BEAN	NING STRATA	(MOD.)	. OULL SOUND UNDER HAMM		DWS SIGNIFICANT LOSS OF \$	
PI OF A-7-5 9	SUBGROUP IS \leq LL -				DR SEEP		MODERATELY	WITH FRESH ROCK.	Z DISCOLORED DR	STAINED. IN GRANITOID ROC	KS ALL FEIDS
	1	Y OR DENSENES: RANGE OF STANDARD	RANGE OF UNCONFINED		MISCELLANEOUS SYMBOL		SEVERE (MDD. SEV.)	AND DISCOLORED AND A M	MAJORITY SHOW KA	OLINIZATION. ROCK SHOWS S S PICK. ROCK GIVES "CLUNK	SEVERE LOSS I
PRIMARY SOIL TYPE	COMPACTNESS OR CONSISTENCY	PENETRATION RESISTENCE (N-VALUE)	COMPRESSIVE STRENGTH (TONS/FT2)	RDADWAY EMBAN		ING SAMPLE DESIGNATIONS		IF TESTED, WOULD YIELD		STICK, NOCK DIVES CEON	C SOUND WHEN
GENERALLY	VERY LOOSE	<4		SDIL SYMBOL	AUGER BORING	S - BULK SAMPLE	SEVERE (SEV.)			STAINED. ROCK FABRIC CLEA	
GRANULAR	LDOSE MEDJUM DENSE	4 TO 10 10 TO 30	N/A		-	SS - SPLIT SPOON SAMPLE		EXTENT. SDME FRAGMENTS IF TESTED, YIELDS SPT N	s of strong rock	USUALLY REMAIN.	
MATERIAL (NON-COHESIVE)	DENSE VERY DENSE	30 TD 50 >50				ST - 9HELBY TUBE	VERY SEVERE	E ALL ROCK EXCEPT DUART			MENTS ARE DIS
	VERY SOFT	<2	<0.25	INFERRED SOIL	BDUNDARY NV MONITORING W	SAMPLE	(V SEV.)			IL STATUS, WITH ONLY FRAG ROCK WEATHERED TO A DEGR	
GENERALLY . SILT-CLAY	SOFT MEDIUM STIFF	2 TD 4 4 TD B	0.25 TO 0.50 0.5 TO 1.0	INFERRED ROCK		RS - RUCK SAMPLE		VESTIGES OF THE DRIGINA	AL ROCK FABRIC R	EMAIN. <u>IF TESTED, YIELDS</u>	SPT N VALUE
MATERIAL (COHESIVE)	STIFF VERY STIFF	8 TD 15 15 TD 30	1 TO 2	ALLUVIAL SOIL	BOUNDARY ZA INSTALLATION	RT ~ RECOMPACTED TRIAXIAL SAMPLE	COMPLETE			DISCERNIBLE, DR DISCERNIBL BE PRESENT AS DIKES OR S	
	HARD	>30	2 TO 4	25/825 DIP & DIP DIRE		CBR - CALIFORNIA BEARING		ALSO AN EXAMPLE.		201500	
	TEXTURE	OR GRAIN SIZE			SPT N-VALUE	RATIO SAMPLE			ROCK HA	P PICK. BREAKING OF HAND	
U.S. STO. SIEVE SIZE OPENING (MM)	4 10 4.76 2.0			SDUNDING RDD	REF- SPT REFUSAL		VERY HARD	SEVERAL HARD BLOWS DE			SPECIMENS RE
	· · · · · · · · · · · · · · · · · · ·	COARSE FIN	F		ABBREVIATIONS	· · · · · · · · · · · · · · · · · · ·	HARO	CAN BE SCRATCHED BY K TO DETACH HAND SPECIM		Y WITH DIFFICULTY. HARD I	Hammer Blows
	BBLE GRAVEL COB.) (GR.)	SAND SAN (CSE, SD.) (F			HI.~ HIGHLY MED MEDIUM	W - MOISTURE CONTENT V - VERV	MODERATEL	Y CAN BE SCRATCHED BY K	KNIFE OR PICK. GO	UGES DR GRODVES TO 0.25	
GRAIN MM 305	75 2.0		0.05 0.005	CL CLAY CPT - CONE PENETRATION	MICA MICACEDUS TEST MOD MODERATELY	VST - VANE SHEAR TEST WEA WEATHERED	HARD	EXCAVATED BY HARD BLC BY MODERATE BLDWS.	DW OF A GEOLOGIS	T'S PICK. HAND SPECIMENS	CAN BE DETAC
SIZE IN. 12	3			CSE COARSE DMT - DILATOMETER TEST	NP - NON PLASTIC	γ - UNIT WEIGHT	MEDIUM HARD			DEEP BY FIRM PRESSURE D	
SOIL MDISTURE SI	IL MOISTURE - C	OTETURE	······································	DPT - DYNAMIC PENETRAT	IDN TEST PMT - PRESSUREMETER TEST	$\gamma_{ m d}$ - DRY UNIT WEIGHT	INNO	PDINT DF A GEDLOGIST'S		LICES I INCH MHAIMUM SIZE	
ATTERBERG LIMIT			R FIELD MOISTURE DESCRIPT	DN B - VOID RATIO	SAP SAPROLITIC SD SAND, SANDY	. •	SDFT			NIFE DR PICK. CAN BE EXCA BY MODERATE BLOWS DF A	
	- SATUR		LIDUID: VERY WET, USUALLY	FOSS FOSSILIFERDUS FRAC FRACTURED, FRACT	SL SILT, SILTY TURES SLI SLIGHTLY			PIECES CAN BE BROKEN			
	LIMIT		.DW THE GROUND WATER TAB	FRAGS FRAGMENTS	TCR - TRICONE REFUSAL		VERY SOFT	DR MORE IN THICKNESS (VATED READILY WITH PDINT FINGER PRESSURE, CAN BE	
PLASTIC RANGE	- WET		D; REDUIRES DRYING TO PTIMUM MDISTURE	FOI	JIPMENT USED ON SUBJECT	PROJECT		FINGERNAIL.		BEDD	INC
(PJ) PL PLASTIC	C LIMIT					HAMMER TYPE:	TERM			TERM	THICK
	I MDISTURE - MDIS	T~(M) SOLID;A	T OR NEAR OPTIMUM MOISTU		ADVANCING TOOLS:		VERY WID	DE MDRE THAN I	10 FEET	VERY THICKLY BEDDED THICKLY BEDDED	> 4 FE 1.5 - 4
				X MOBILE B- 57				3 TD 10 FEE ELY CLDSE 1 TD 3 FEET		THINLY BEDDED VERY THINLY BEDDED	0.16 - 1. 0.03 - 0
	- DRY		ADDITIONAL WATER TO PTIMUM MOISTURE	ВК-51	X 6' CONTINUOUS FLIGHT AUGER	CDRE SIZE:	CLDSE VERY CLC	0.16 TD 1 FE DSE LESS THAN @		THICKLY LAMINATED	0.00B - 0
	PI 4	STICITY			X 8" HOLLOW AUGERS				INDURA	THINLY LAMINATED	< 0.008
		TY INDEX (PI)	DRY STRENGTH	CME-45C		X-N_Q	FOR SEDIMEN	TARY ROCKS, INDURATION IS			TING, HEAT, PRE
NDNPLASTIC	Ø-		VERY LDW SLIGHT	X CME-550	X TUNGCARBIDE INSERTS X CASING X W/ ADVANCER	<u>-н</u>	FF	RIABLE		FINGER FREES NUMERDUS C	
MED. PLASTICITY	6- 16-	25	MEDIUM		TRICONE STEEL TEETH	HAND TOOLS:	1			BY HAMMER DISINTEGRATES	
HIGH PLASTICITY		OR MORE	HIGH		TRICONE TUNGCARB.	X POST HOLE DIGGER X HAND AUGER	MD	DDERATELY INDURATED		E SEPARATEO FRDM SAMPLE Y WHEN HIT WITH HAMMER.	ATTUR STEEL
DESCRIPTIONS MAY THE		COLOR	YELLDW-BROWN, BLUE-GRAY).	┥⊔	X CORE BIT		INF	OURATED		IFFICULT TO SEPARATE WIT	H STEEL PROE
	S LIGHT, DARK, STREAKED,			□		VANE SHEAR TEST		TREMELY INDURATED		BREAK WITH HAMMER. R BLDWS REOUIRED TO BREA	AK SAMPLE:
							L .	THE REFERENCES TO DORATED		KS ACROSS GRAINS.	

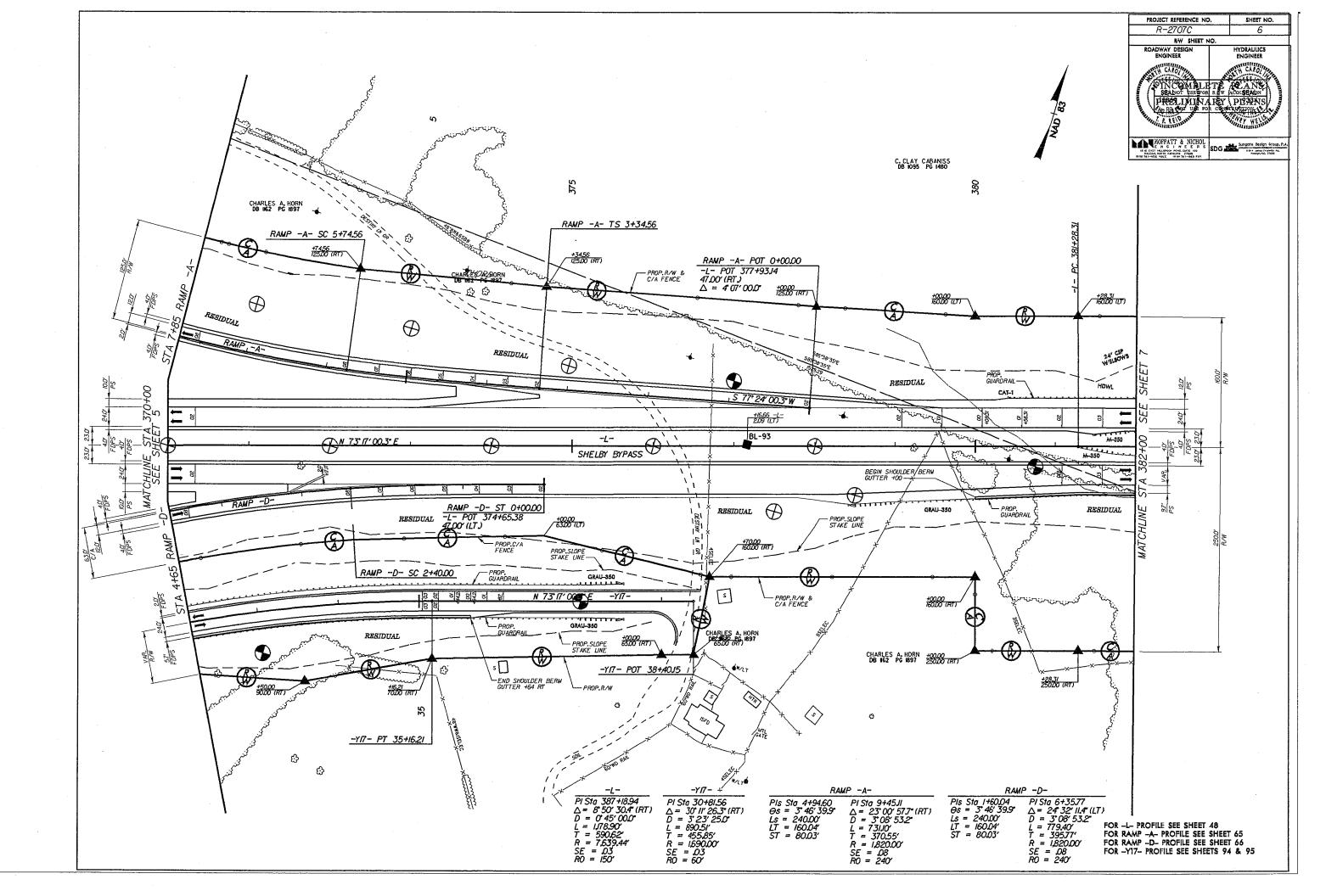
	PROJECT REFERENCE NO.	SHEET NO
	R-2707C	2
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L		

FERRED	
TUSAL.	<u>ALLUVIUM (ALLUV) -</u> SOILS THAT HAVE BEEN TRANSPORTED BY WATER. AQUIFER - A WATER BEARING FORMATION OR STRATA.
TEO BY A ZONE	ADDITER - H WHITE BEANING FORMATION OF STRATH.
	ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS.
ES > 100	OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, AS SHALE, SLATE, ETC. <u>ARTESIAN</u> - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL
RANITE,	AT WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE. CALCAREOLS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMDUNTS OF CALCIUM CARBONATE.
D. RDCK TYPE	COLLUVIUM - RECK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.
YIELO IENTEO	CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE SARREL DIVIDED BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.
	DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT
UNDER	ROCKS OR CUTS MASSIVE ROCK. <u>OIP</u> - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINEO FROM THE HORIZONTAL.
SS IF DPEN. BLOWS IF	DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.
TO	FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO DNE ANDTHER PARALLEL TO THE FRACTURE.
DSPAR /S.	FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.
CK HAS	FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIG:NAL POSITION AND DISLODGED FROM PARENT MATERIAL.
ompareo Ars oull	FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.
F STRENGTH STRUCK.	FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD.
	JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.
BUT REOUCED	LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT.
	LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.
CERNIBLE BUT	MOTTLED (MOT.)- IRREGULARLY MARKED WITH SPOTS OF OIFFERENT COLORS. MOTTLING IN SOILS USUALLY INDICATES POOR AERATION AND LACK OF GODO ORAINAGE.
DNLY MINDR	<u>PERCHED WATER</u> - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM.
ALL AND ROLITE IS	RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.
OLITE 15	ROCK DUALITY DESIGNATION (ROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS EDUAL TO DR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.
DUIRES	SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK.
REQUIRED	SILL - AN INTRUSIVE BOOY OF IGNEOUS ROCK OF APPROXIMATELY UNFORM THICKNESS AND RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEODING OR SCHISTOSITY OF THE INTRUGED ROCK3.
AN BE HEO	$\mbox{slickenside}$ - Polished and striated surface that results from friction along a fault or \mbox{slip} plane.
CK POINT. /S DF THE	STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (N OR BPF) OF A 148 LB. HAMMER FALLING 30 INCHES REDUIRED TO PRODUCE A PENETRATION OF J FOOT INTO SOL WITH A 2 INCH DUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS.
GMENTS IALL, THÌN	<u>STRATA CORE RECOVERY (SREC.)</u> - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH DF STRATUM AND EXPRESSED AS A PERCENTAGE.
ES 1 INCH EAOILY BY	<u>Strata Rock duality designation (srod) –</u> a measure of rock duality described by Total Lenoth of Rock segments within a stratum edual to DR greater than 4 inches divided by the Total Lenoth of strata and expressed as a percentrage.
	TOPSOIL (TS.) - SURFACE SDILS USUALLY CONTAINING DRGANIC MATTER.
ESS	
ET	BENCH MARK:
FEET	ELEVATION: FT.
6 FEET	
P3 FEET	NOTES:
SSURE, ETC.	
ROBE;	
5	
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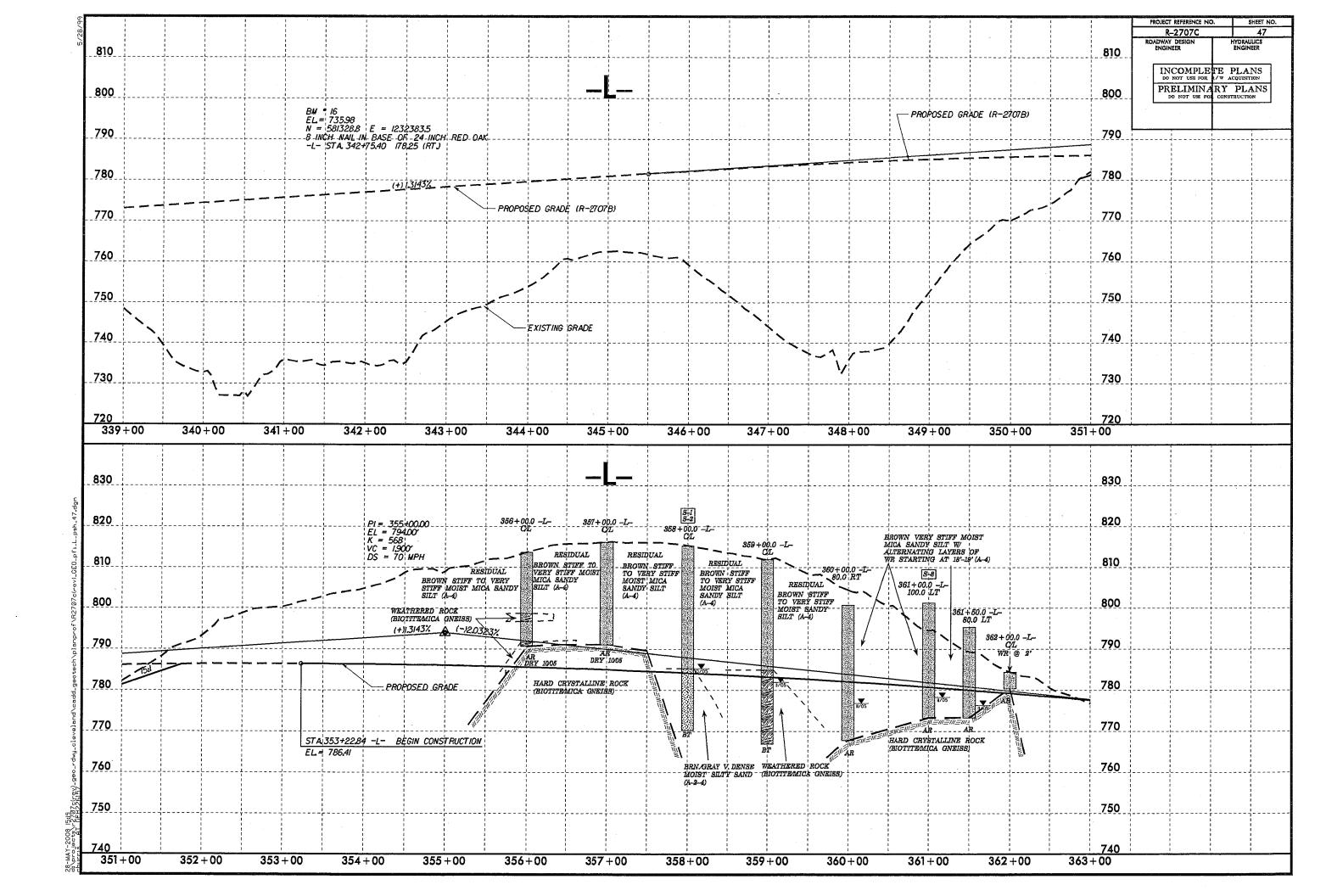
Pages 3, 3A, 3B, and 3C were intentionally removed.

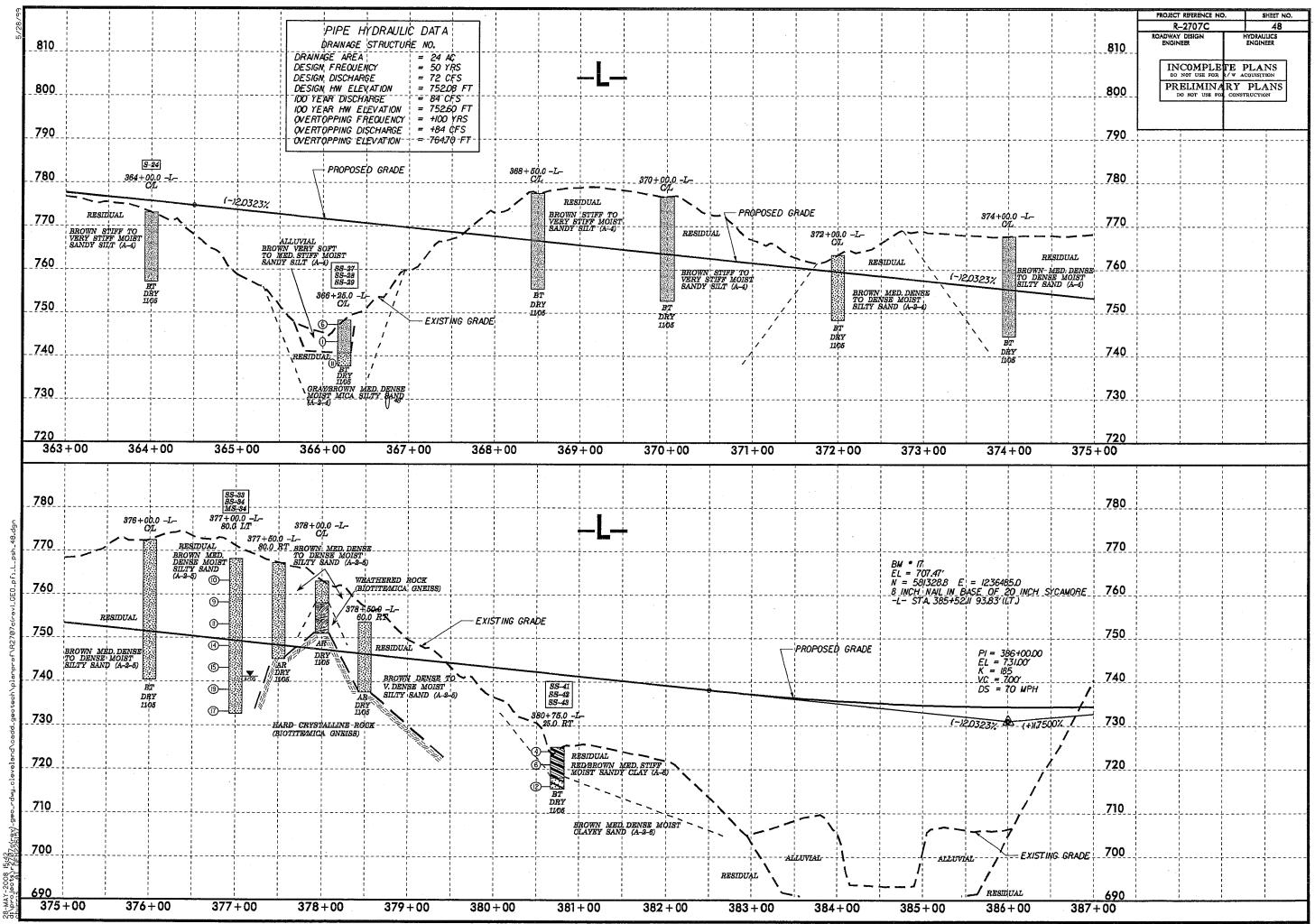




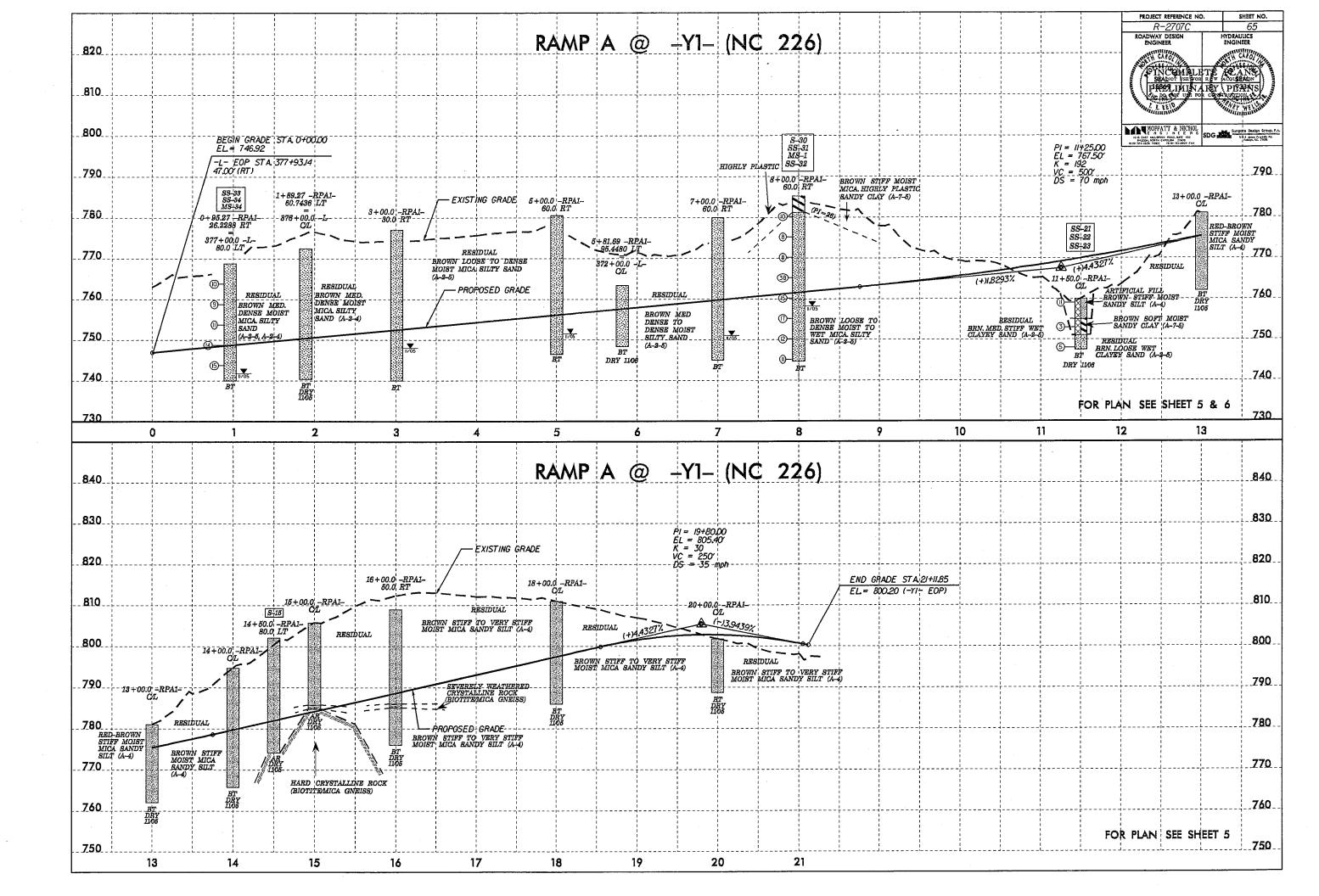


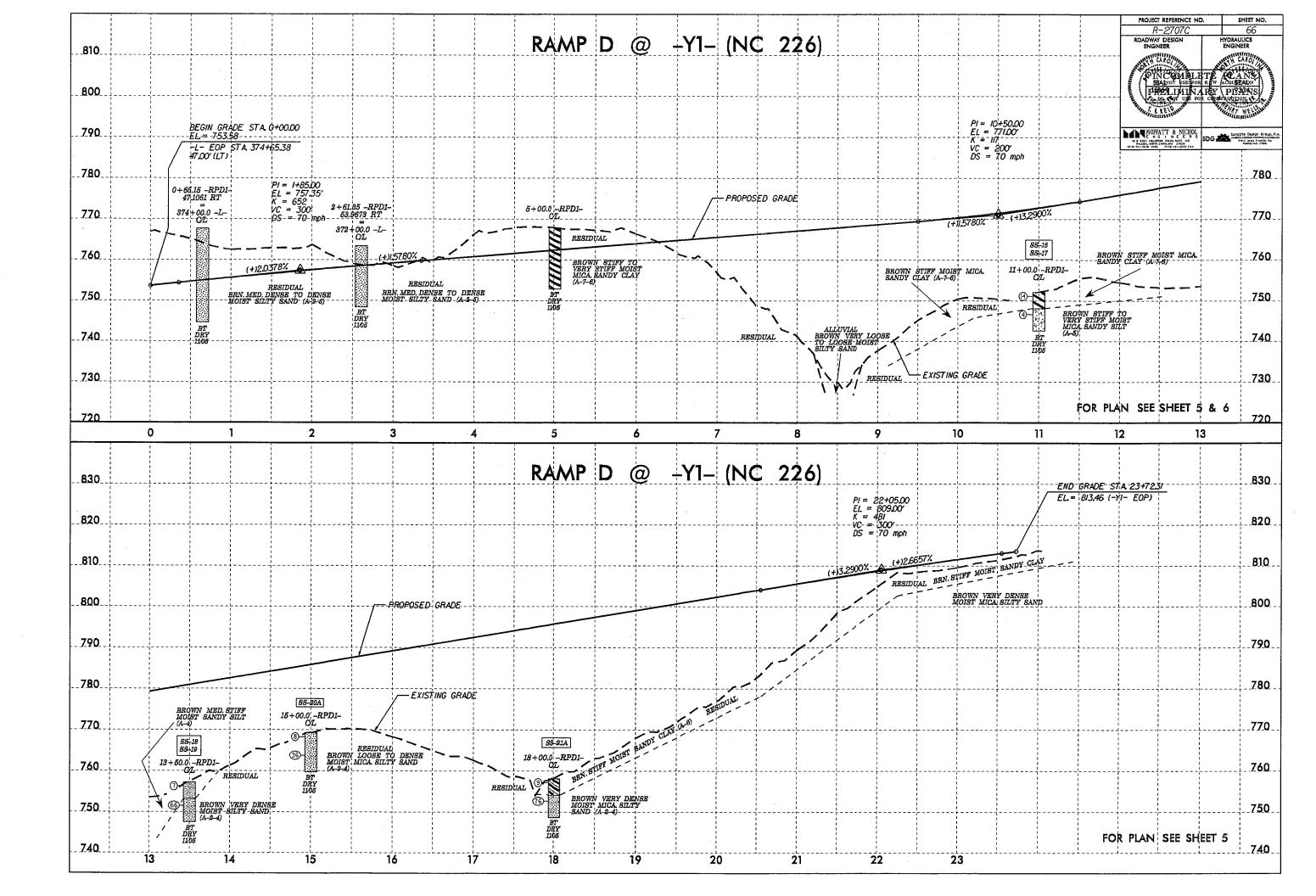
Pages 7 - 46 were intentionally removed.

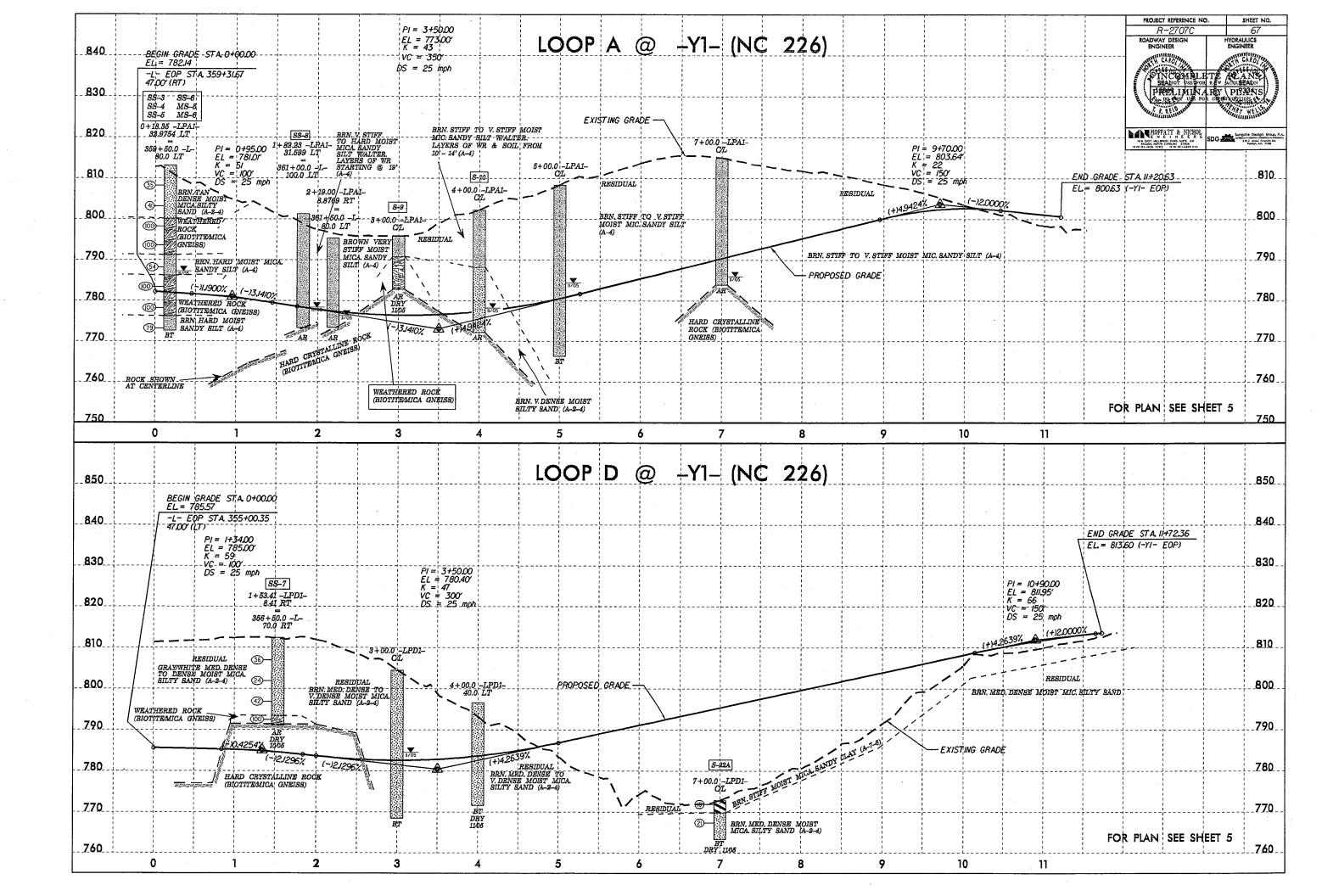




Pages 49 - 64 were intentionally removed.

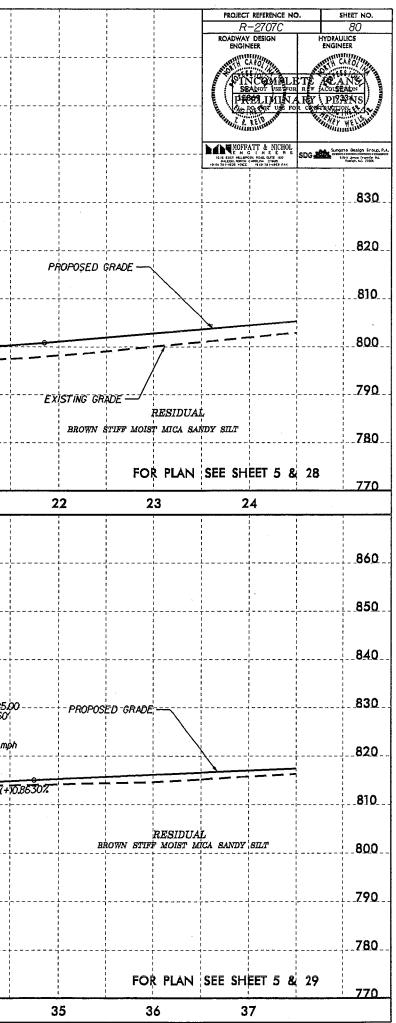


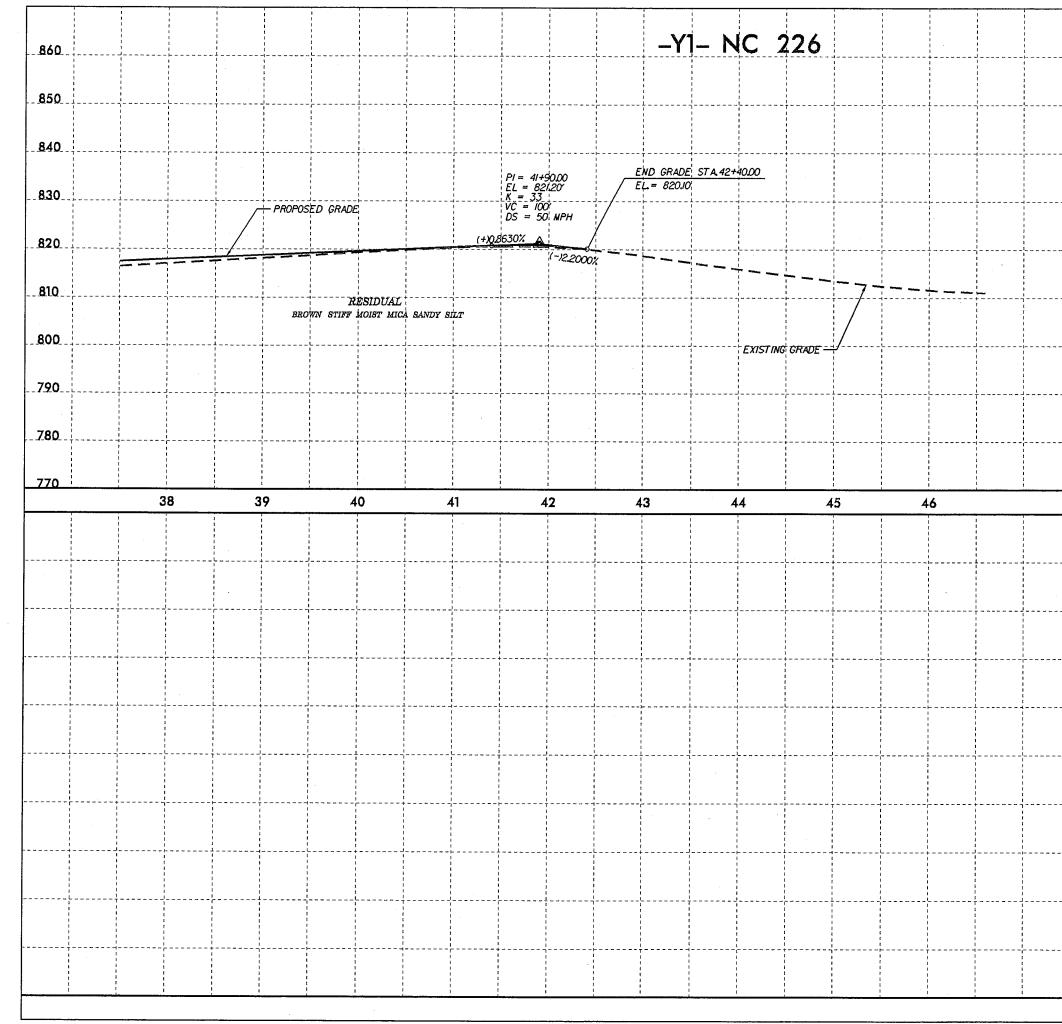




Pages 68 - 79 were intentionally removed.

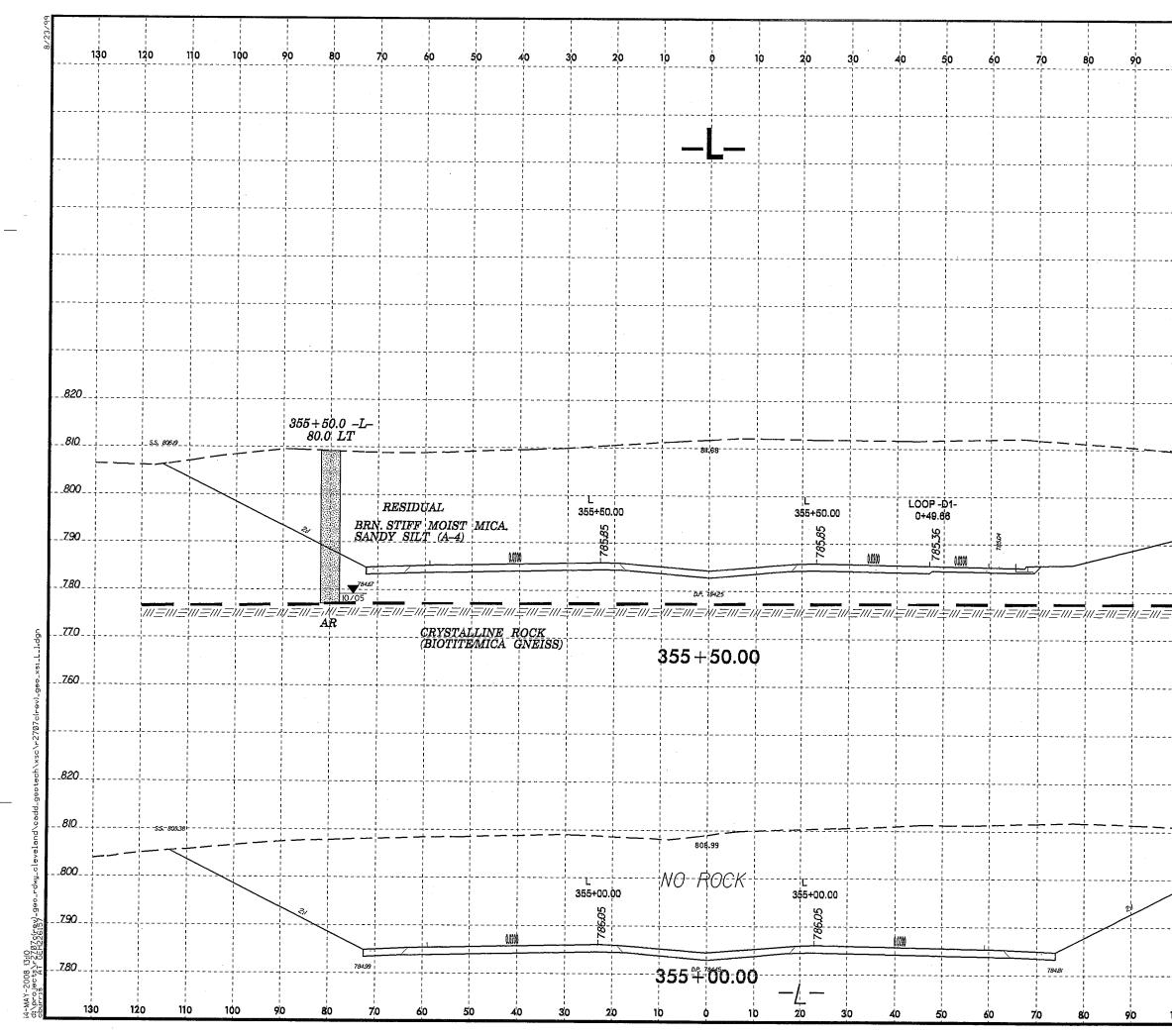
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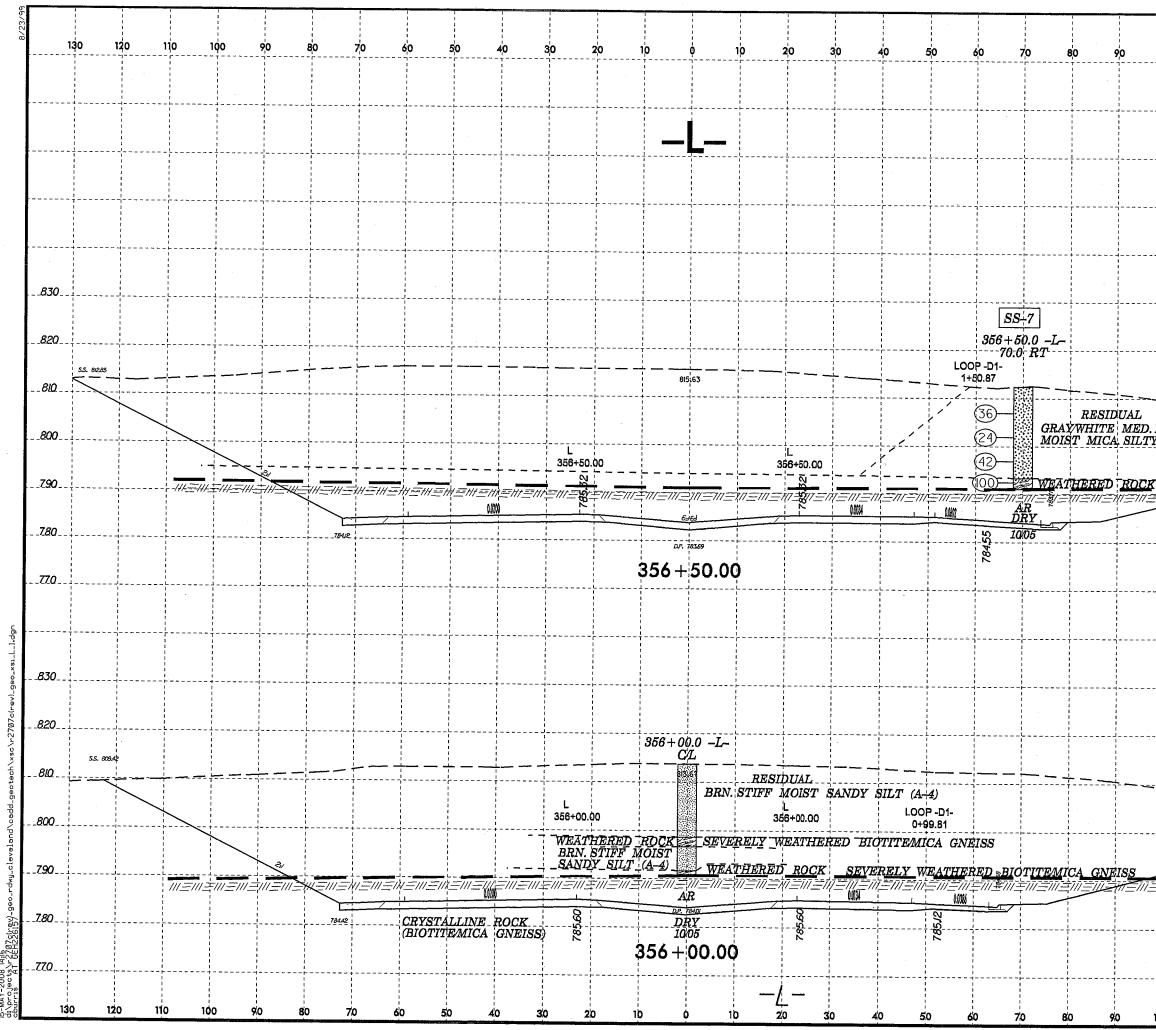


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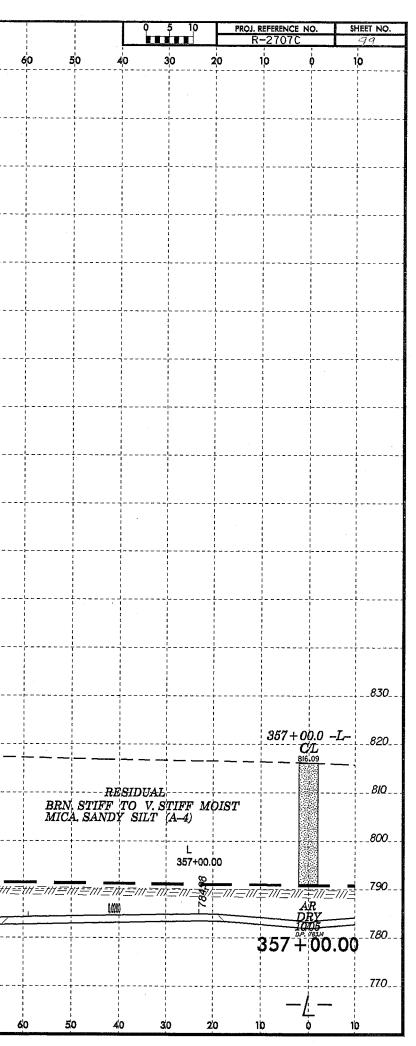


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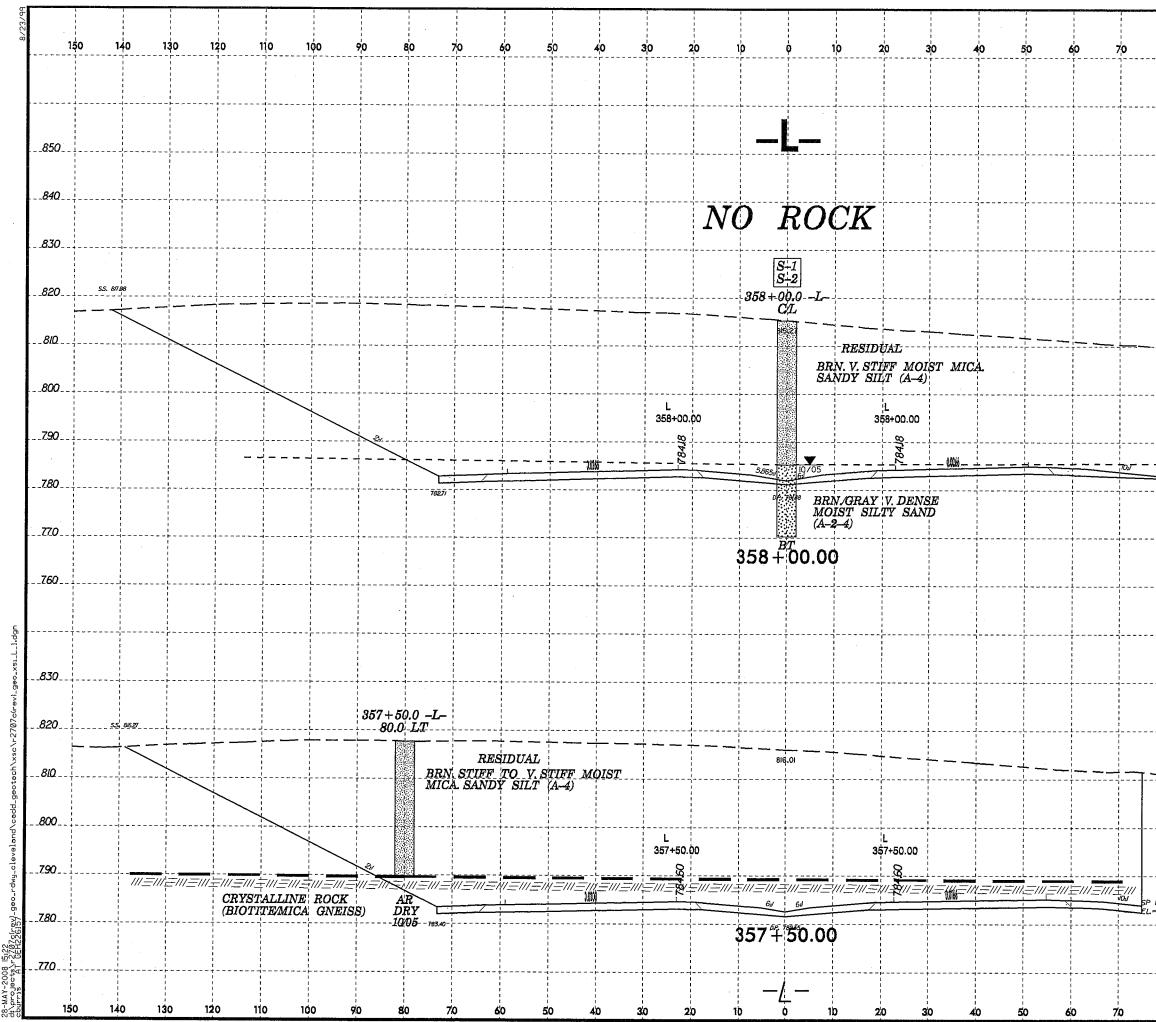


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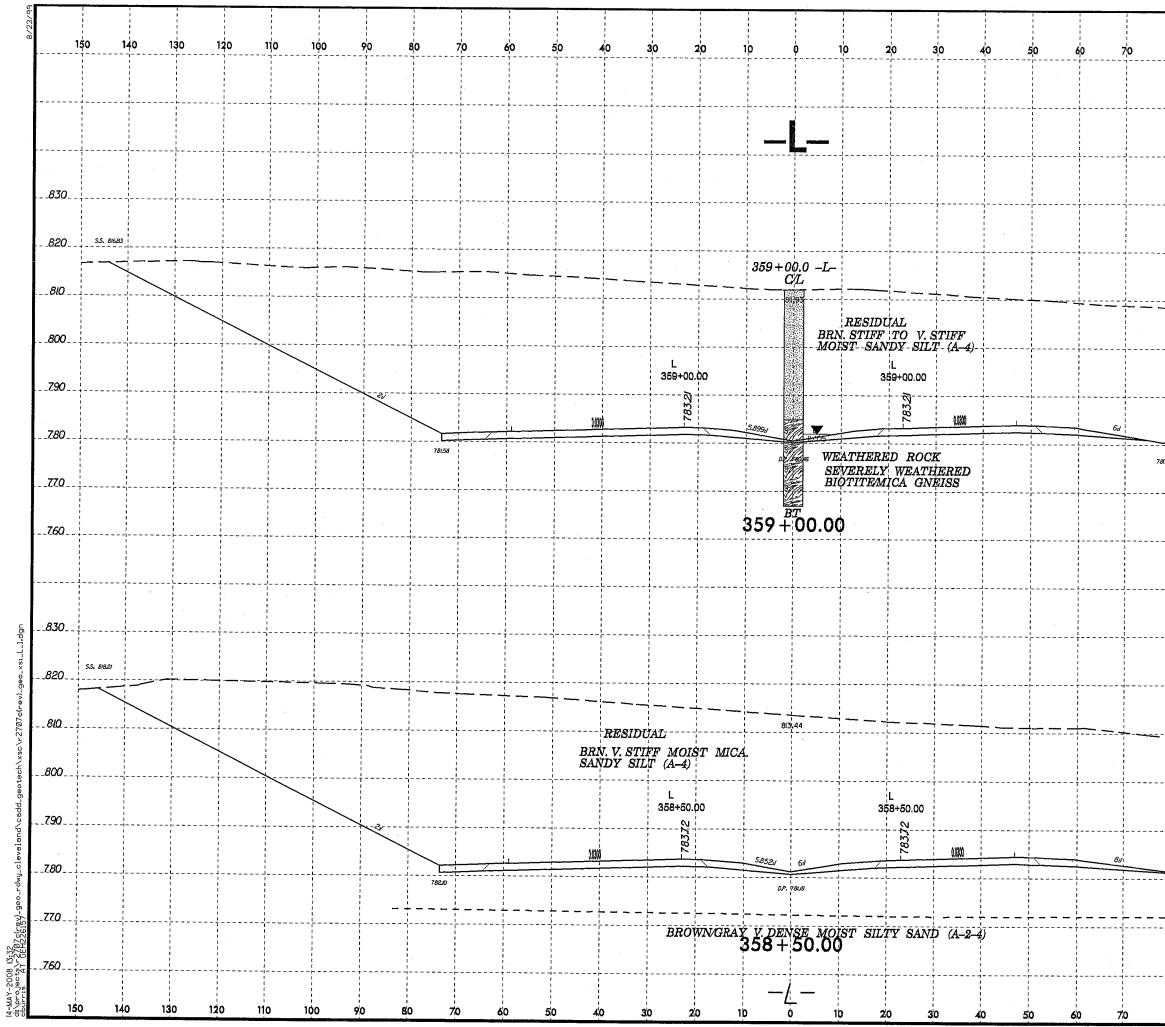
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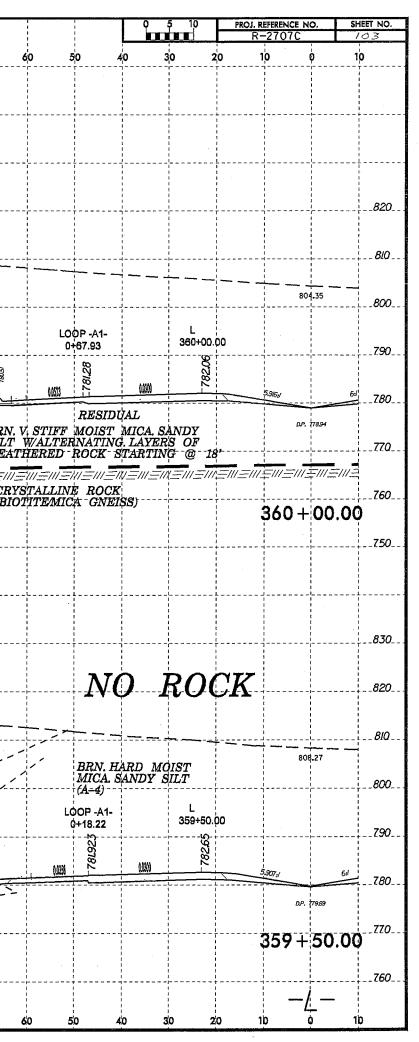
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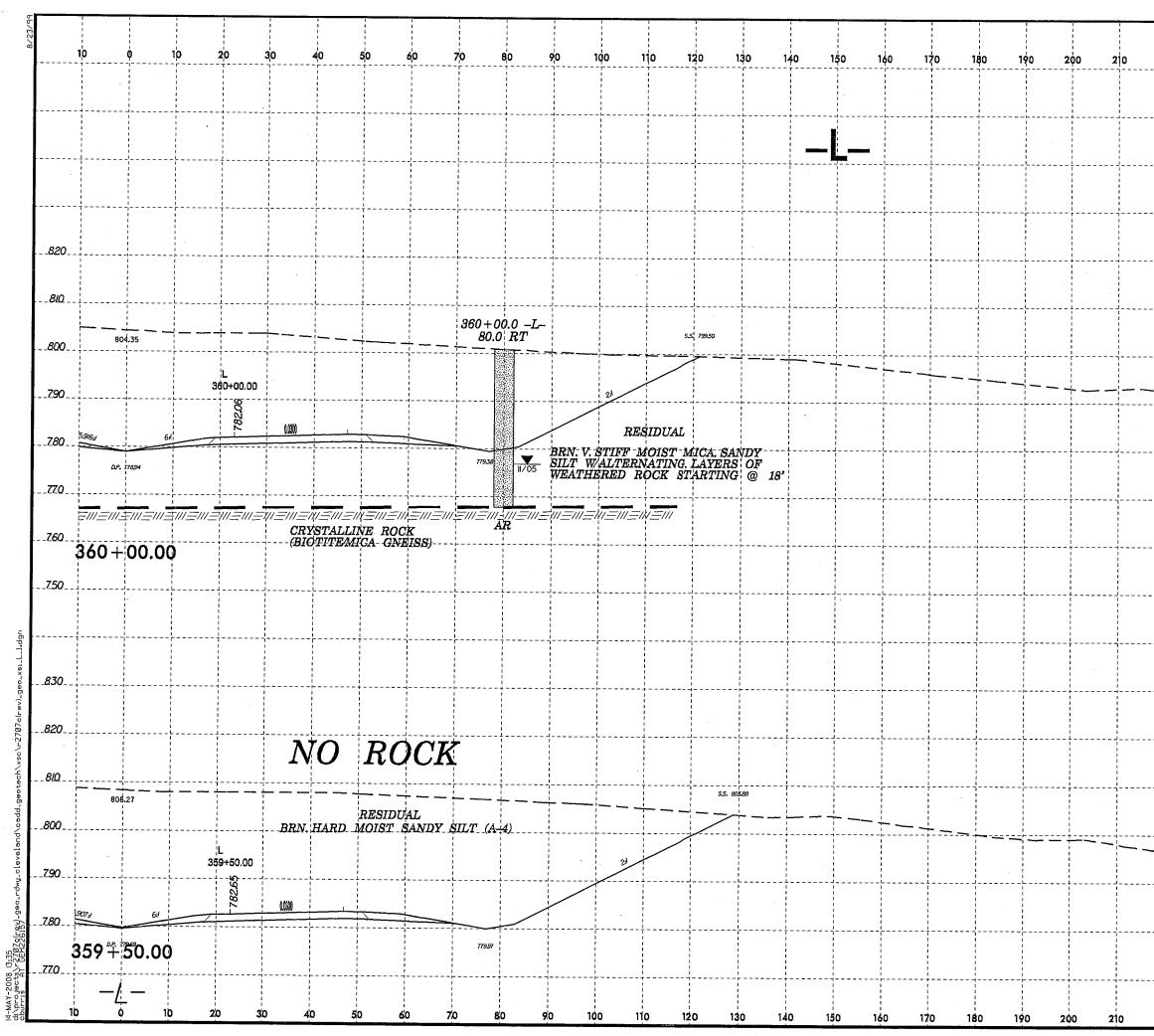


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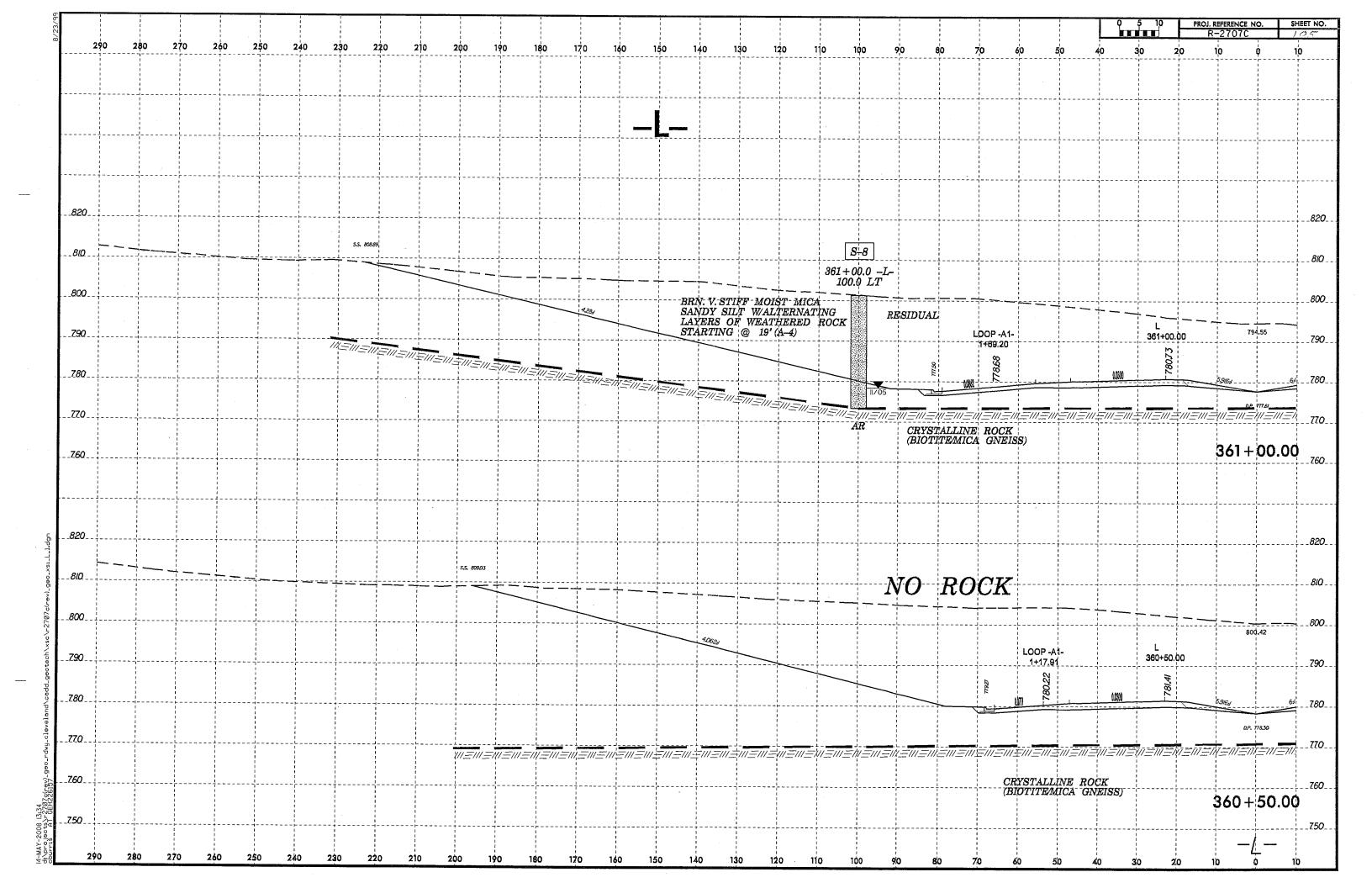
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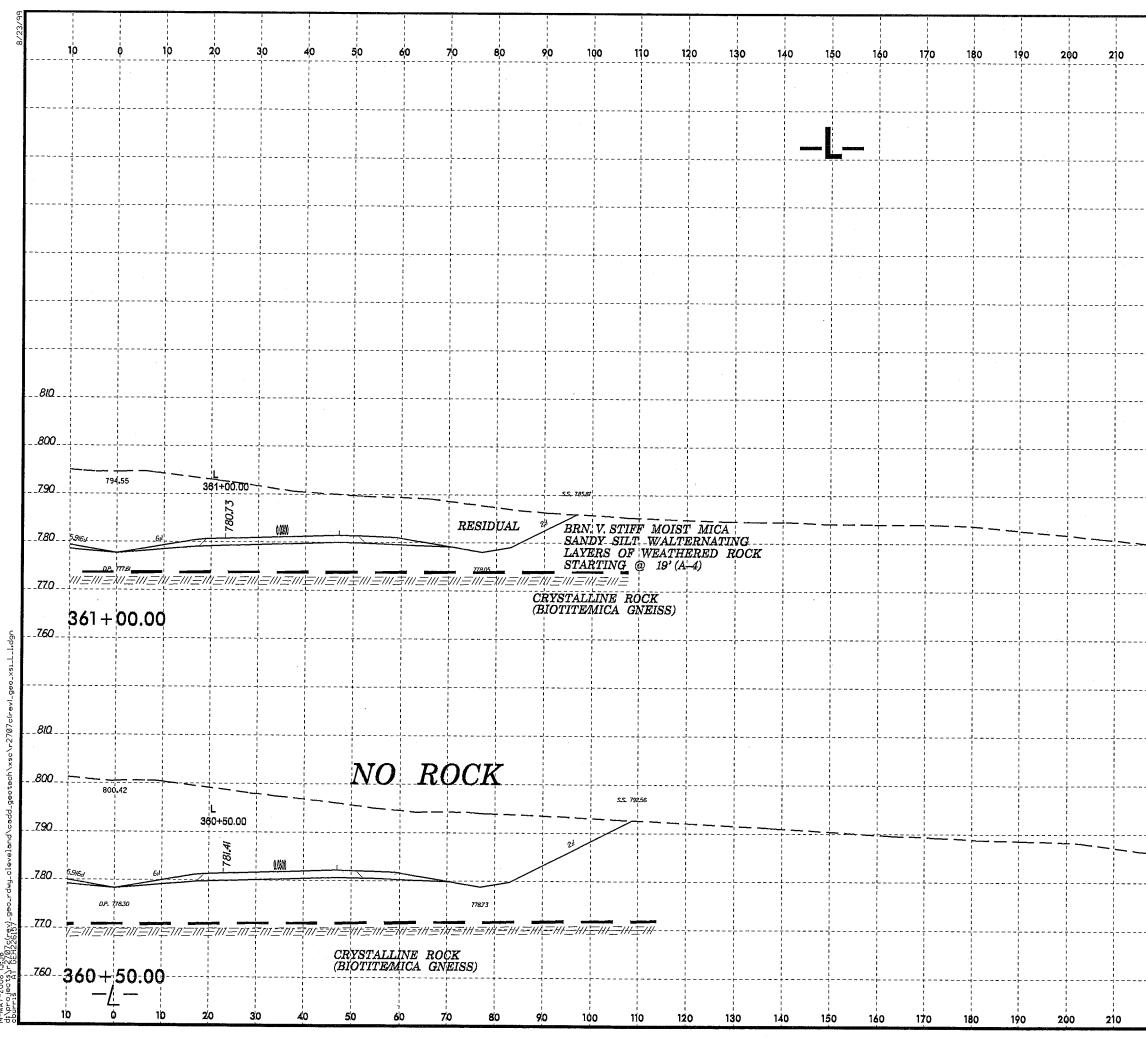
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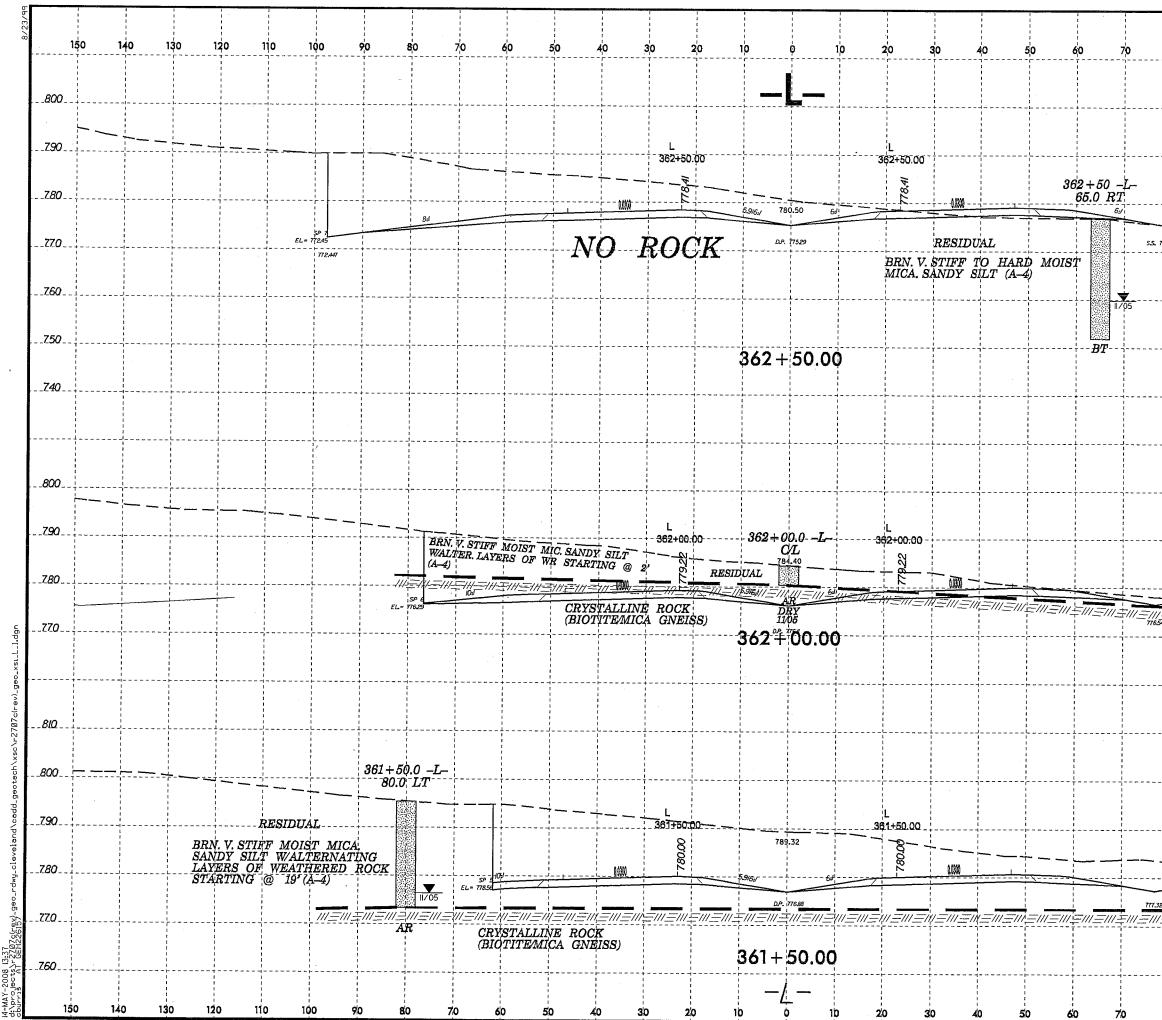


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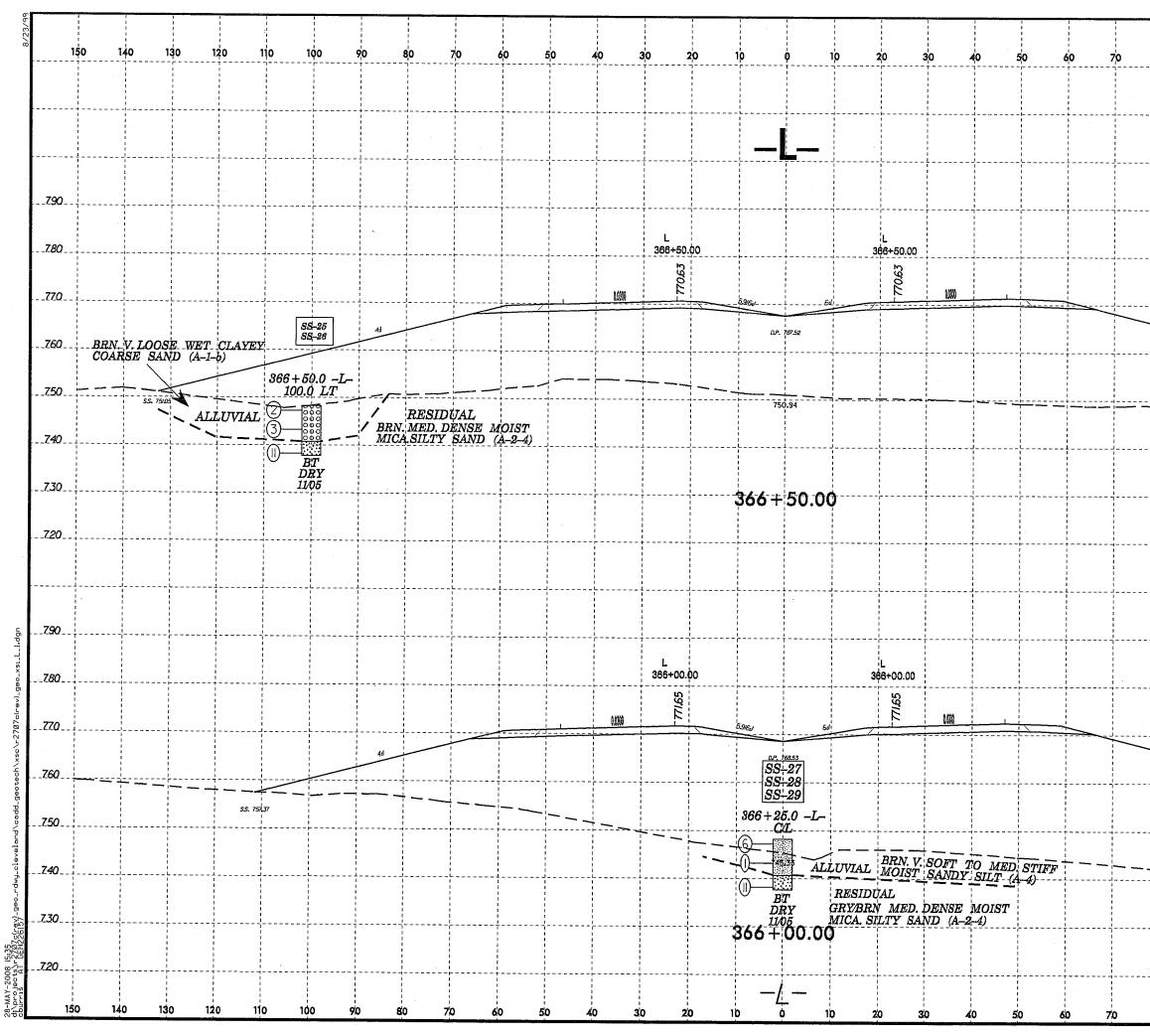


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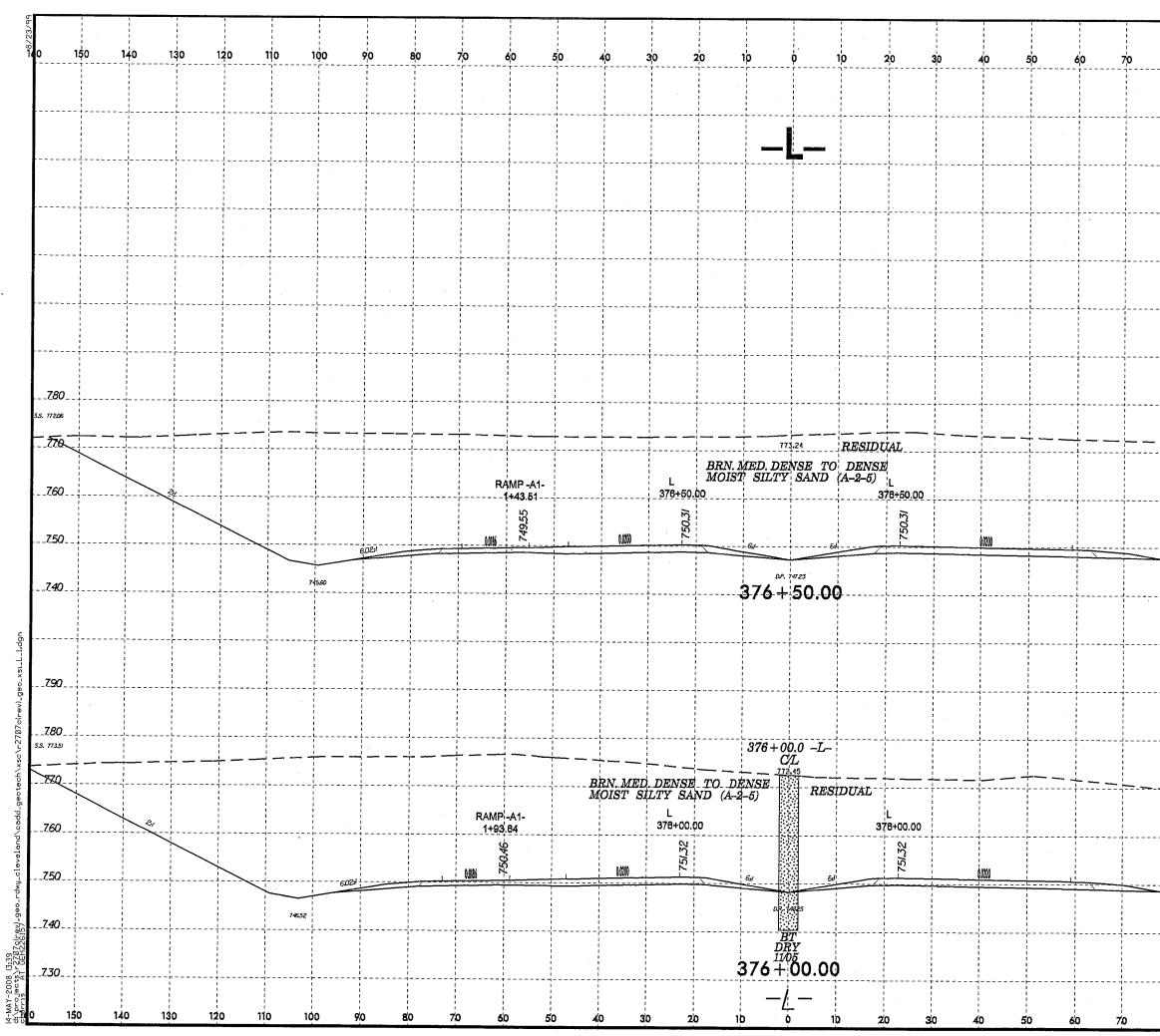


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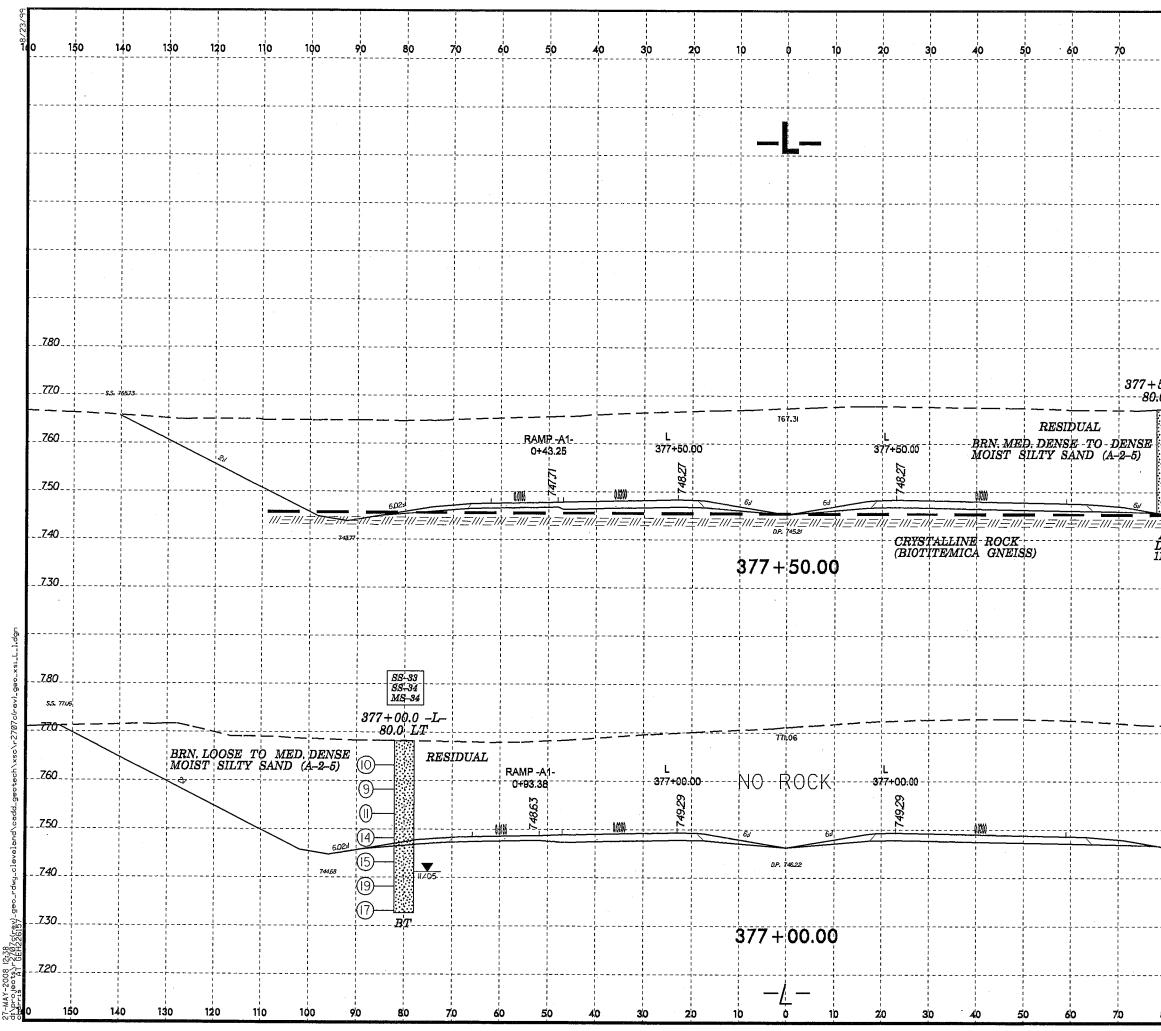
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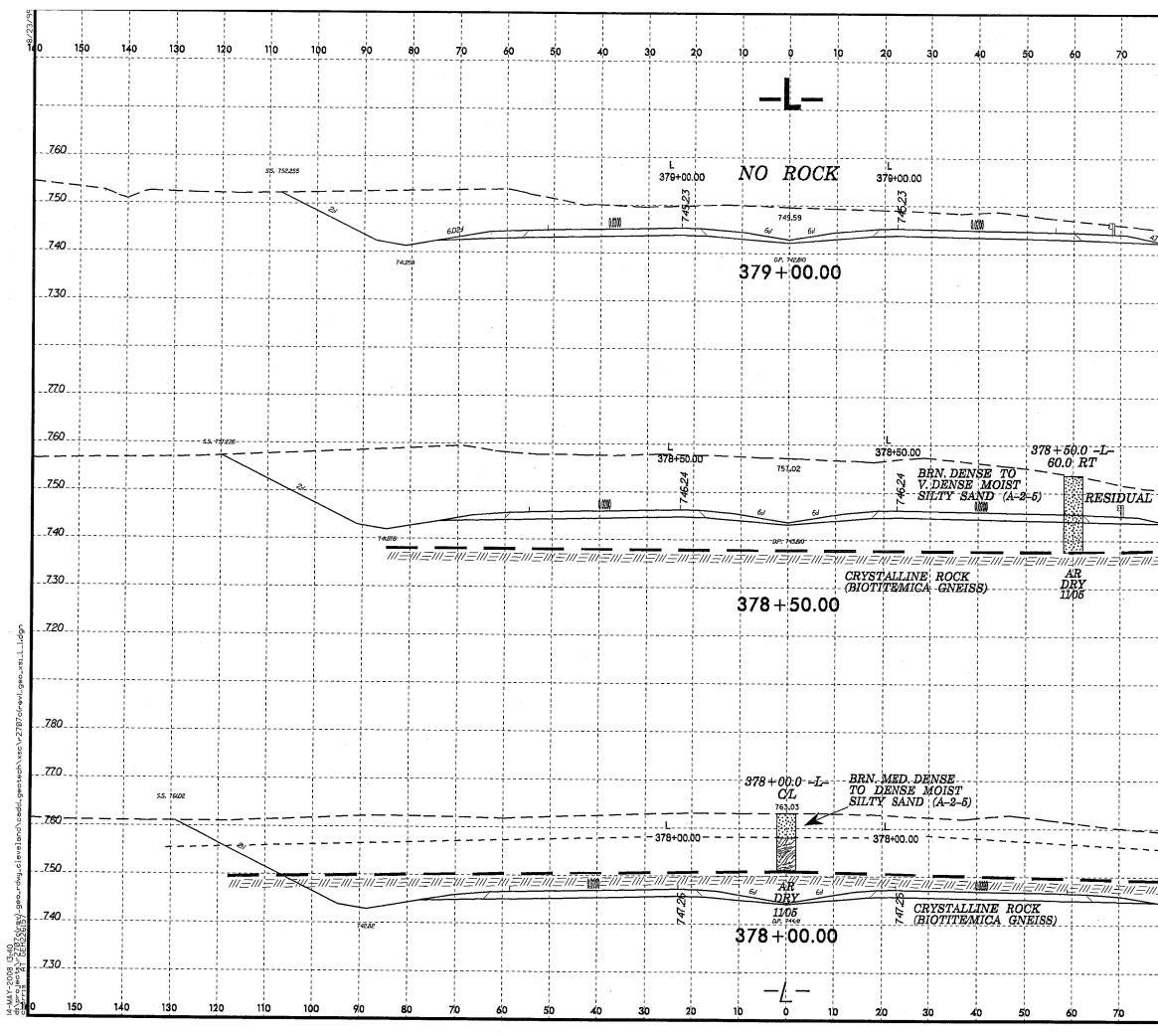
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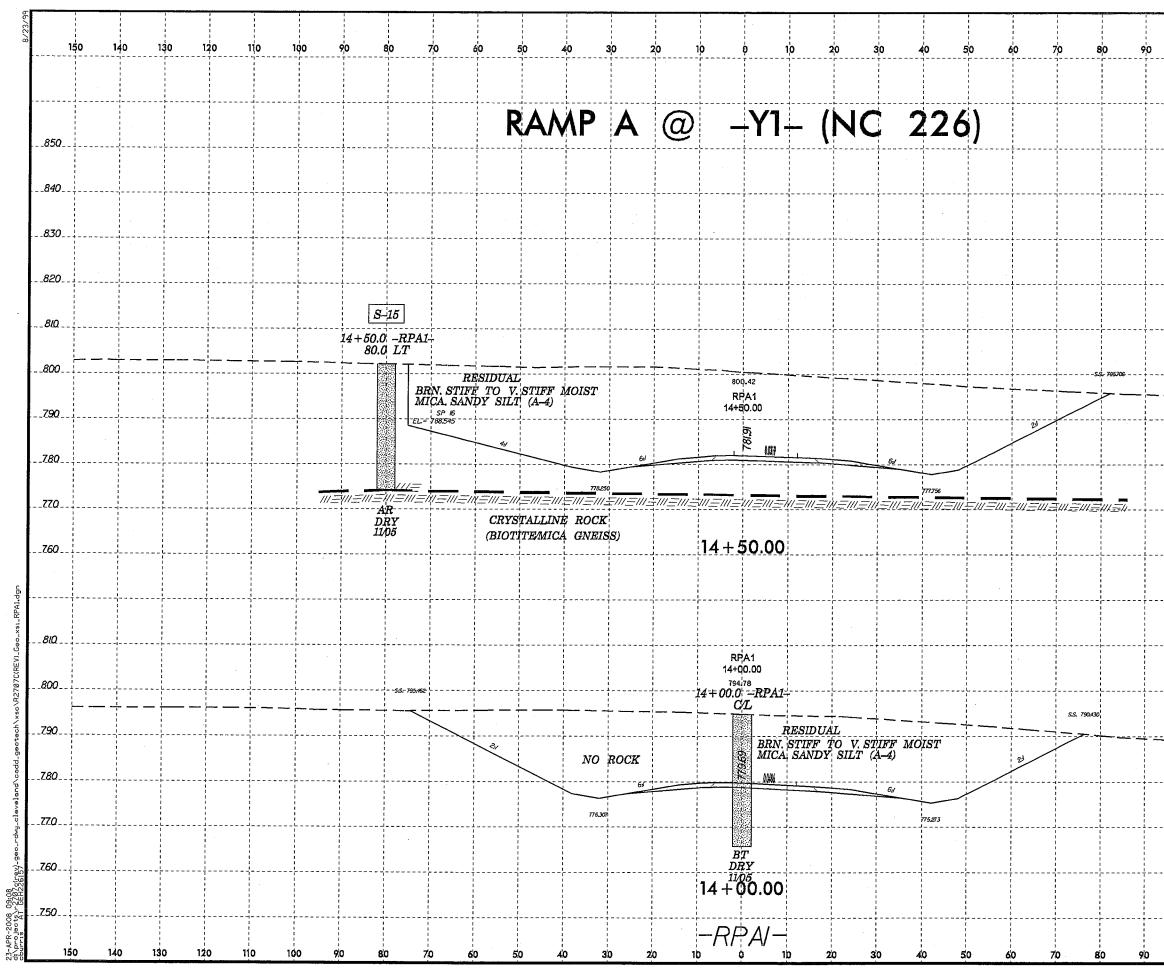


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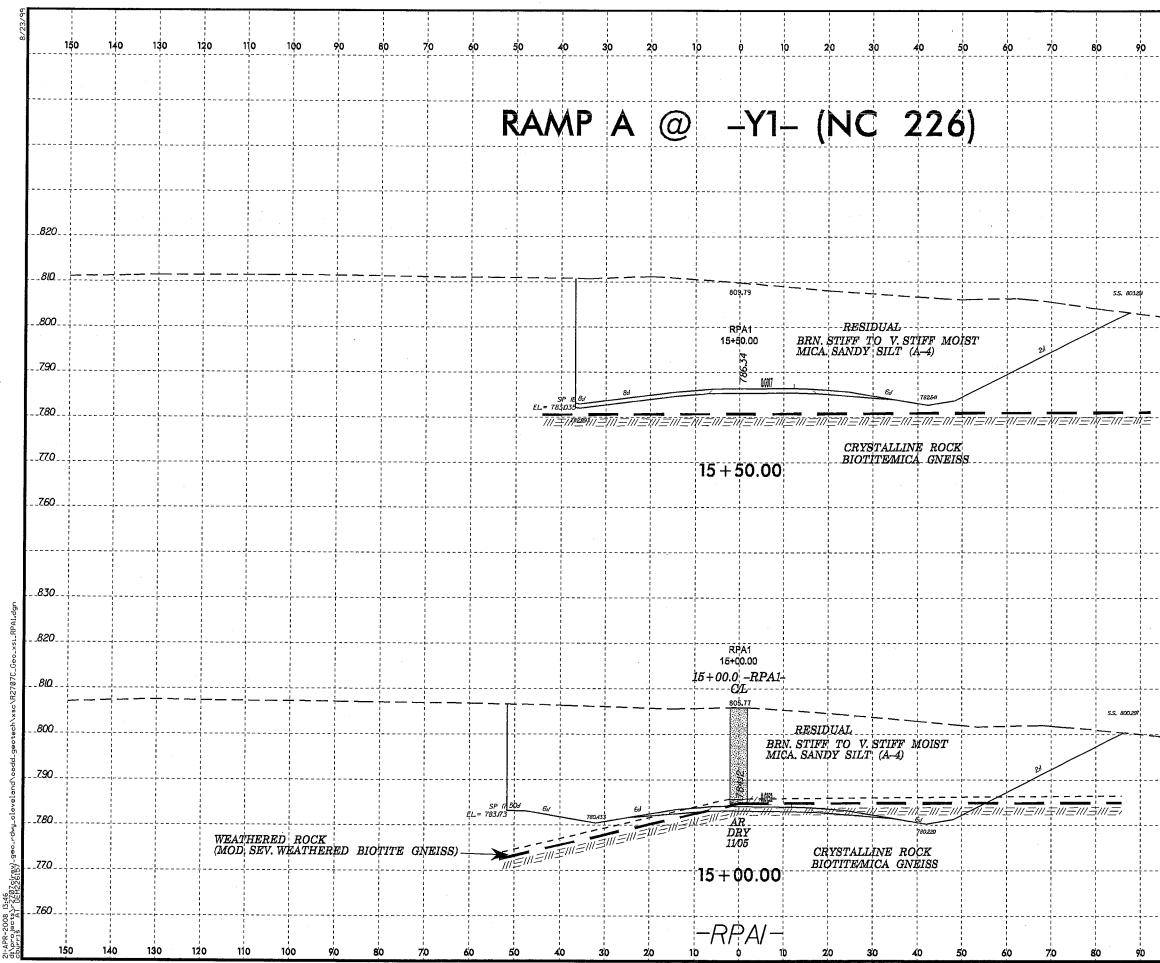


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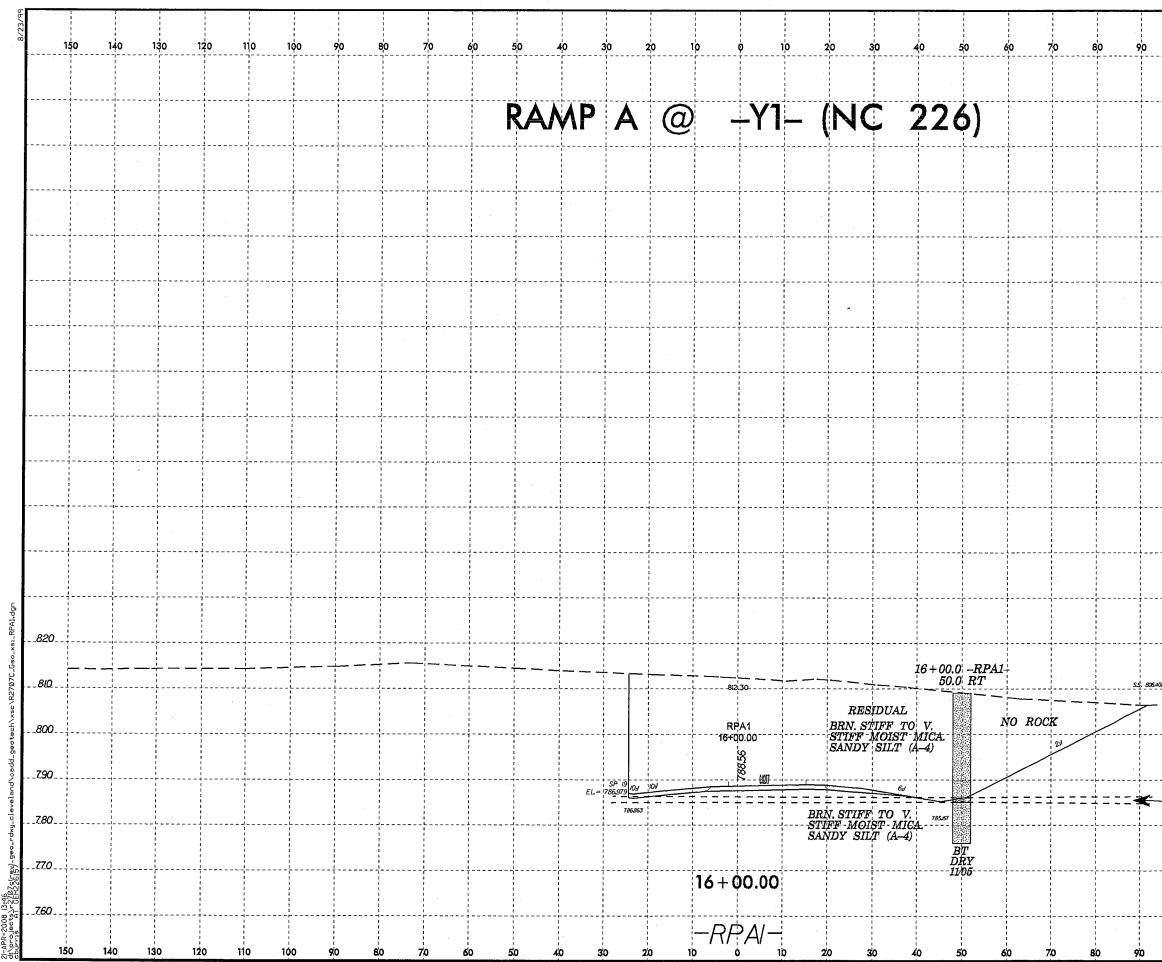
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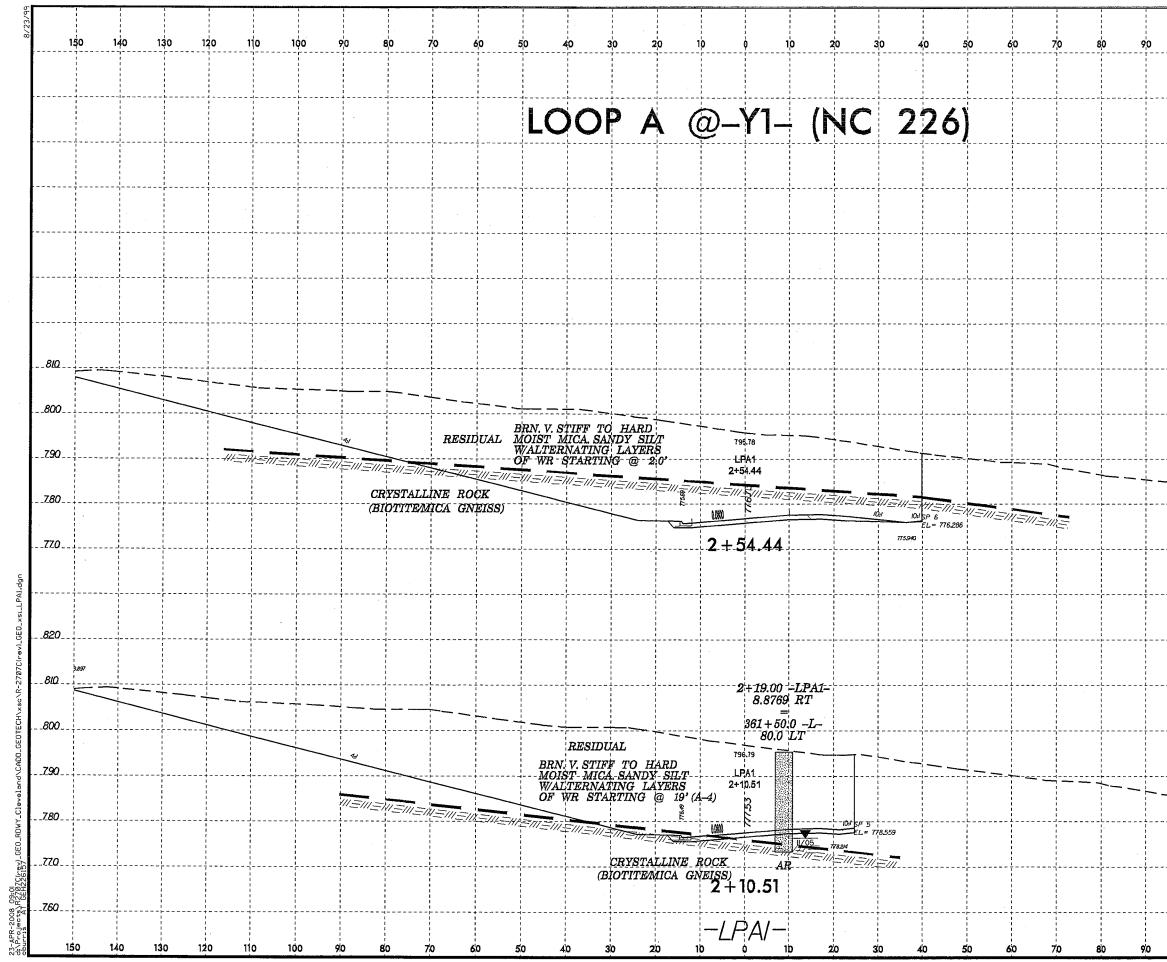
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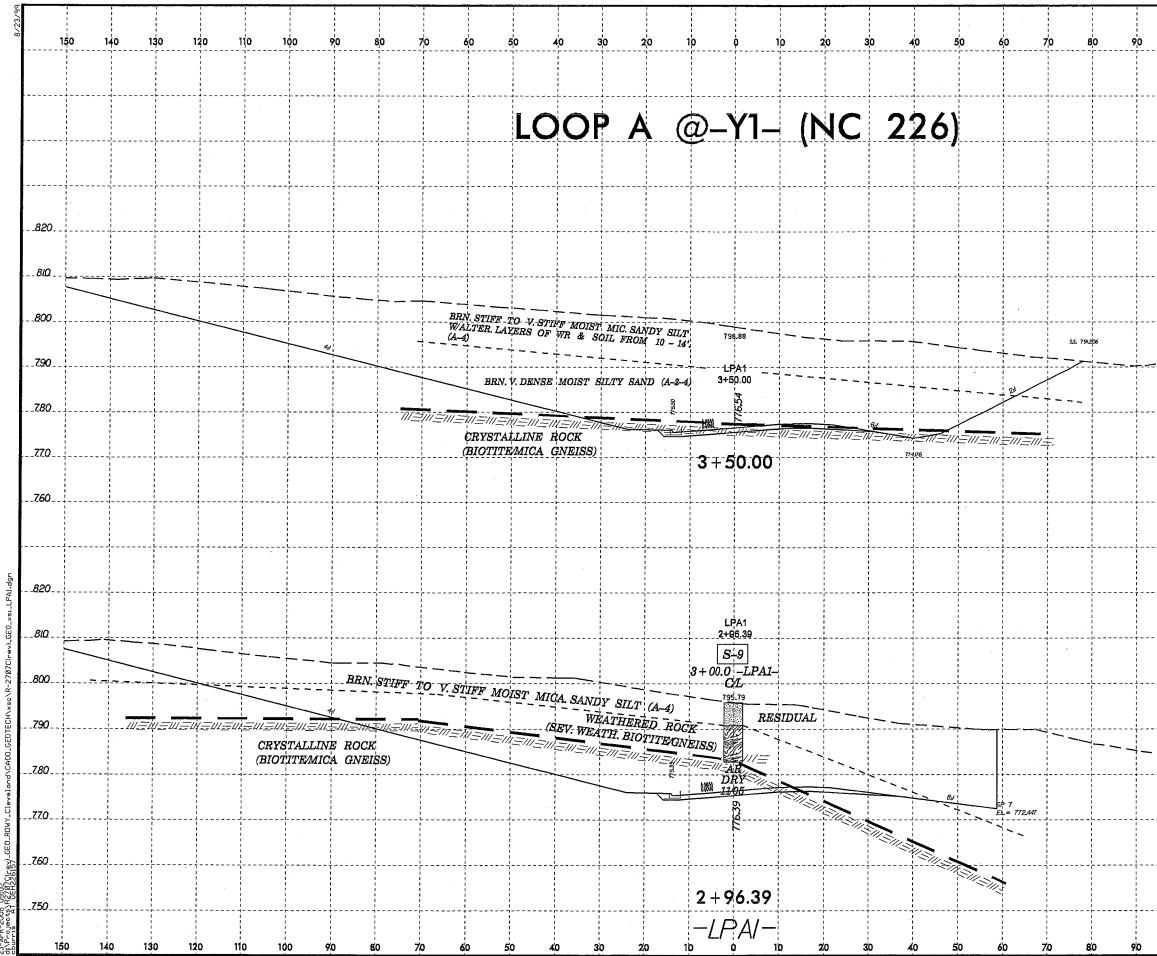
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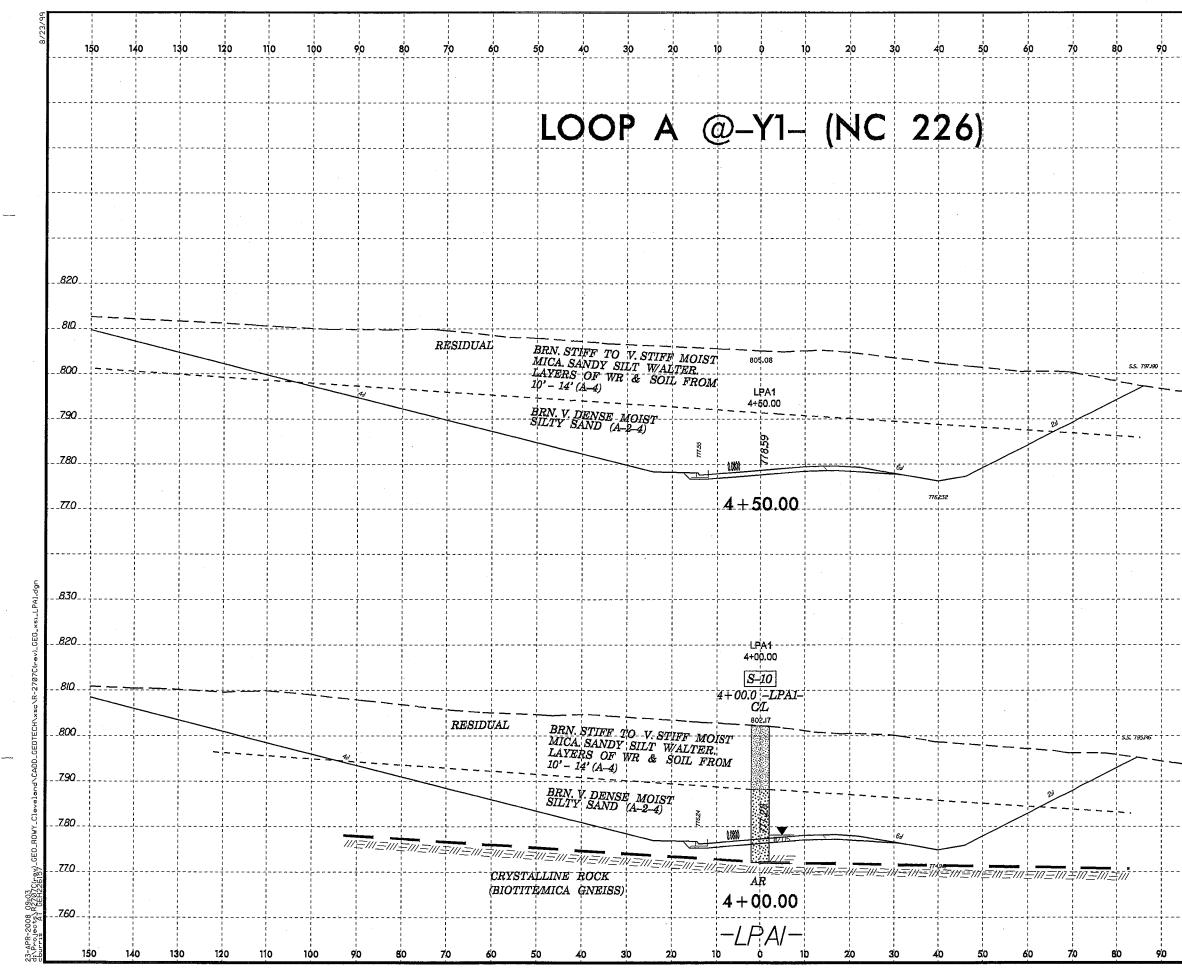


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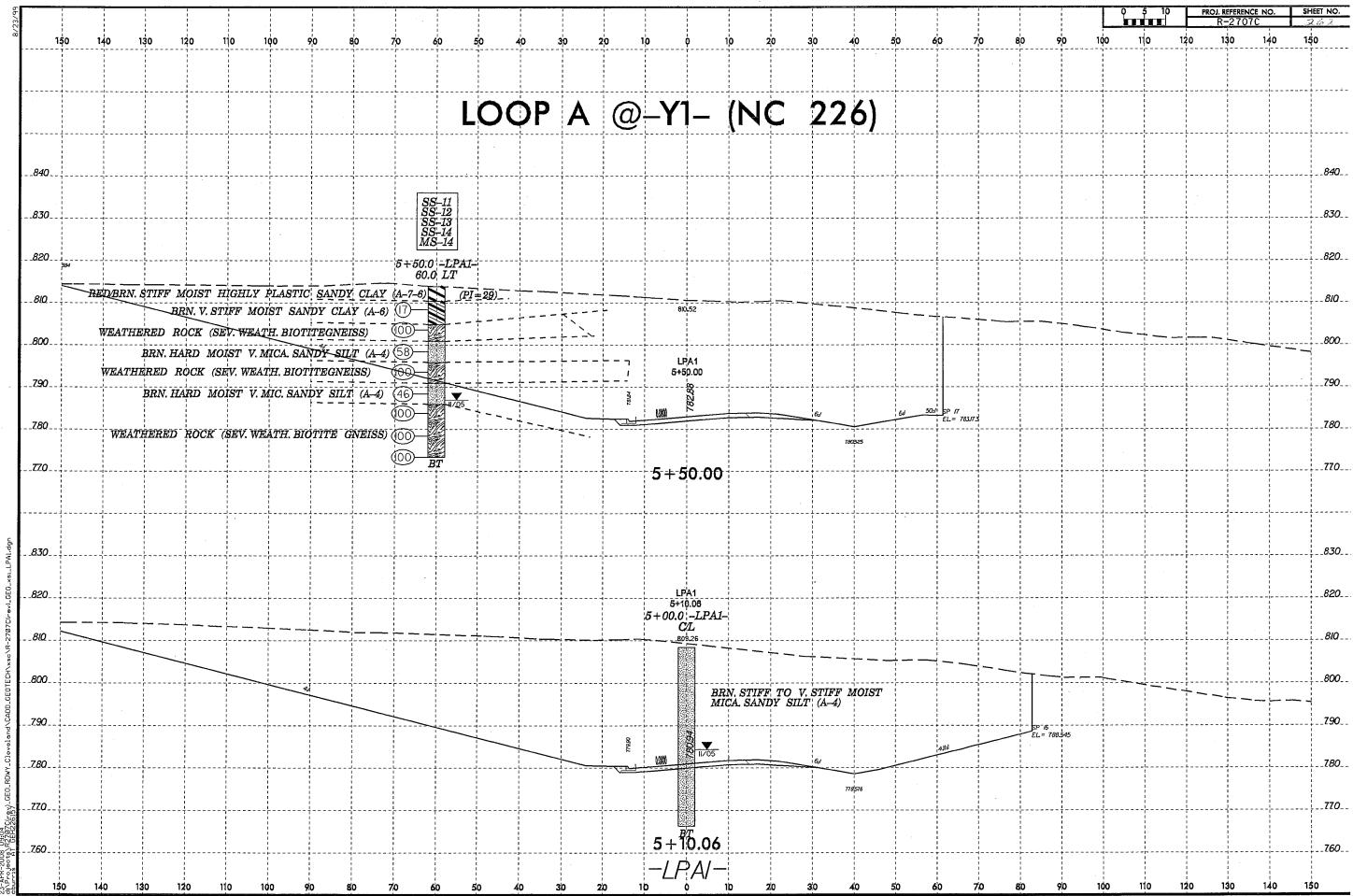


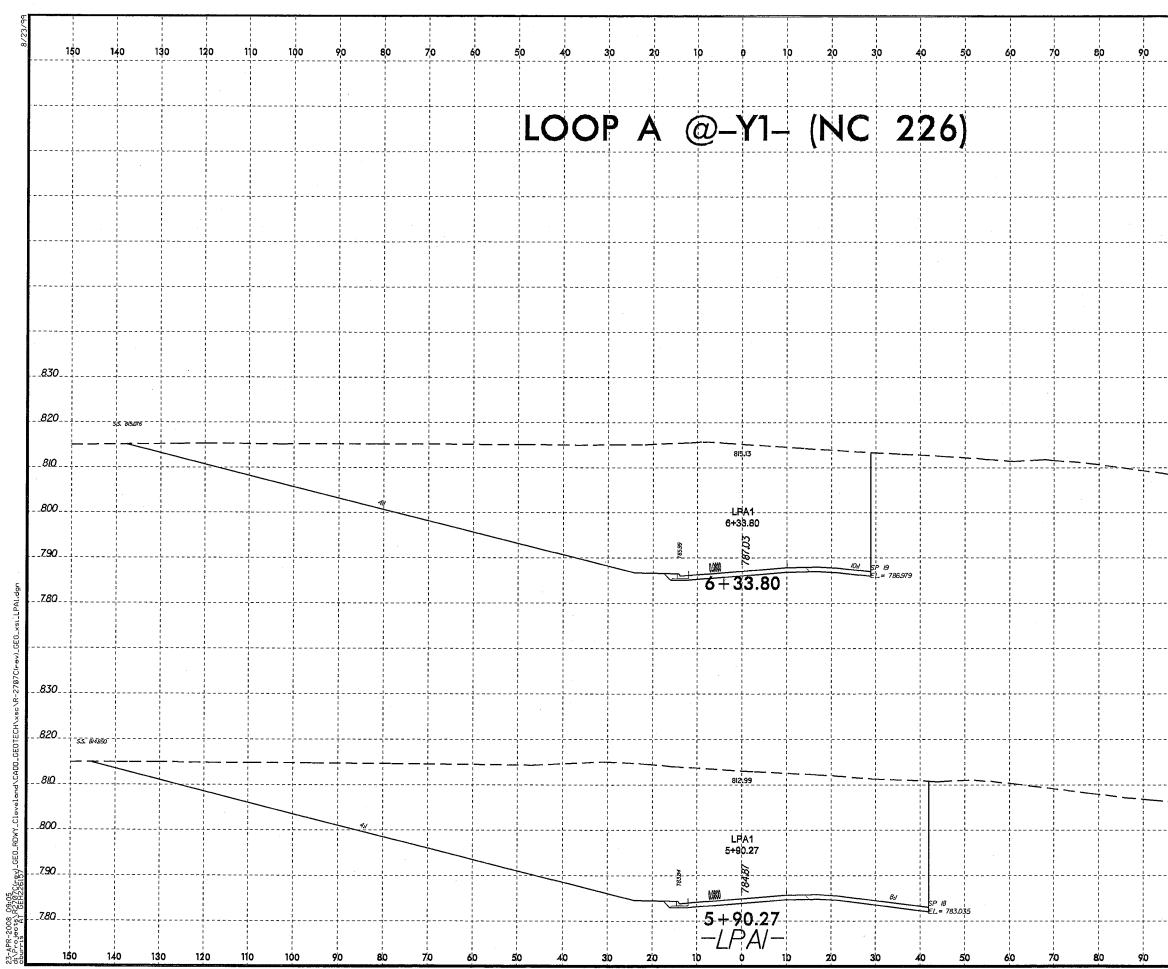
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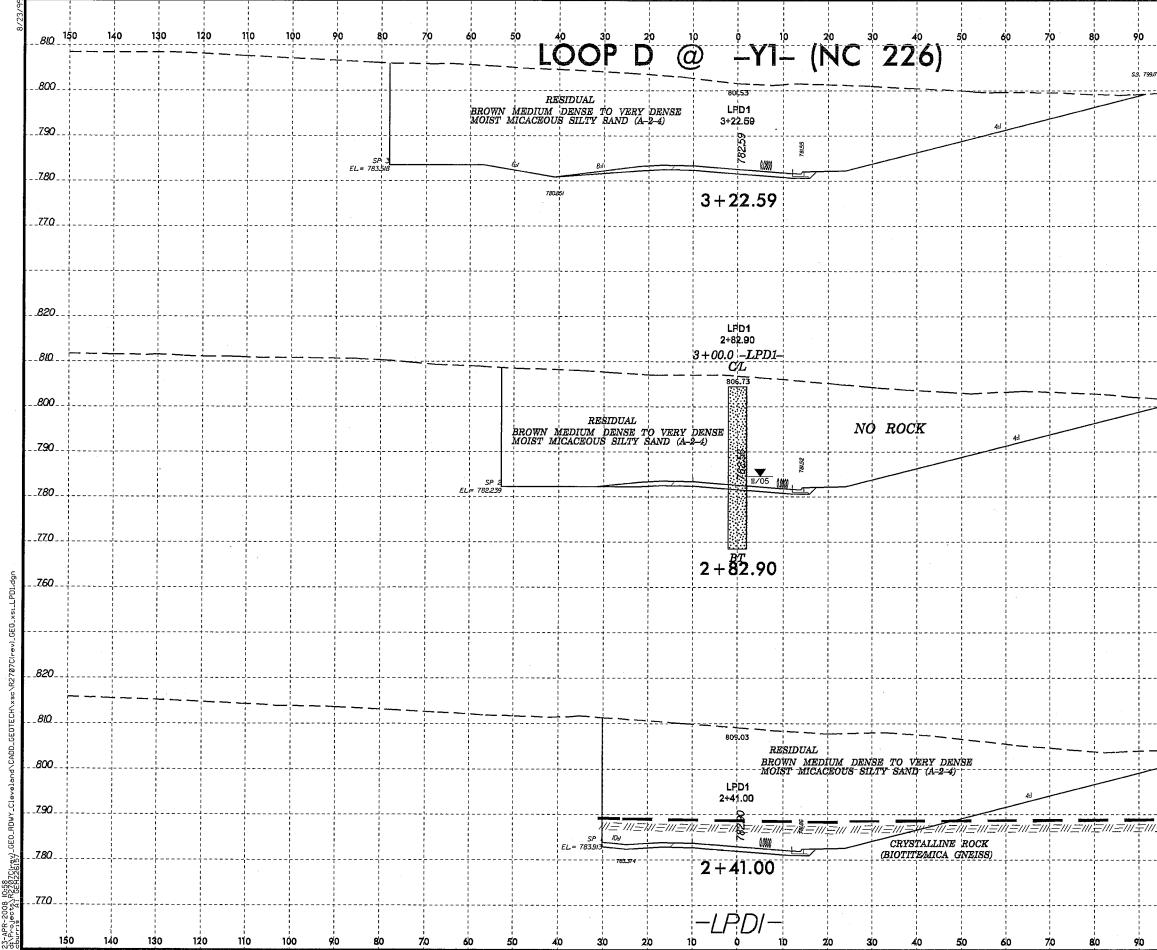


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