STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	34450.1.1 (R-2536B)	1	462

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
		P.E.
		R/W & UTIL.

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

PROJ. REFERENCE NO. 34450.1.1 F.A. PROJ. STPNHF-0064(107)

COUNTY RANDOLPH

PROJECT DESCRIPTION US 64 (ASHEBORO SOUTHERN BYPASS)
FROM US 220 TO SR 2834 (OLD COX ROAD)

INVENTORY

CONTRACT: ID: R-2536B

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CAUTION NOTICE

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SOIL AND ROCK BOUNDARIES WITHIN A BOREHOLE ARE BASED ON GEOTECHNICAL INTERPRETATION UNLESS ENCOUNTERED IN A SAMPLE. INTERPRETED BOUNDARIES MAY NOT NECESSARILY REFLECT ACTUAL SUBSURFACE CONDITIONS BETWEEN SAMPLED STRATA , AND BOREHOLE INFORMATION MAY NOT NECESSARILY REFLECT ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS, INCLUDING TEMPERATURES, PRECIPITATION, AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

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DATE MARCH, 2014

Cheryl A. Youngblood

SECTION 1

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	34450.1.1 (R-2536B)	1	316

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
34450.1.1	STPNHF-0064(107)	P.E.
		R/W & UTIL.

NOTE: SEE SHEET 3 FOR PLAN SHEET LAYOUT AT TIME OF INVESTIGATION

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

ROADWAY SUBSURFACE INVESTIGATION

PROJ. REFERENCE NO. *34450.1.1 (R-2536B)* F.A. PROJ. *STPNHF-0064(107)*

COUNTY *RANDOLPH*

PROJECT DESCRIPTION *US 64 ASHEBORO SOUTHERN BYPASS FROM US 220 TO SR 2834 (OLD COX ROAD)*

INVENTORY

CONTENTS

LINE	STATION	PLAN	PROFILE	XSECT
-L-	264+00 - 471+00	4-16	32-47	106-179
-LPA-	10+50 - 19+50	5	48	180-181
-LPC-	10+50 - 22+00	5	49	182
-LPD-	10+50 - 22+00	5	50	NONE
-RPA-	12+50 - 26+50	5, 20	51-52	183-185
-RPB-	10+50 - 35+50	4-5, 20-21	53-54	186-188
-RPC-	11+00 - 32+50	4-5, 19	55-56	189-190
-RPD-	11+00 - 34+00	5-6, 18-19	57-58	191
-FLYA-	11+00 - 62+50	5-6, 19	59-63	192-199
-Y1-	10+00 -45+50	5, 20-22	64-66	200-202
-Y5-	16+00 - 56+00	18, 23-25	67-70	203-216
-Y5A-	10+50 - 12+00	23	71	217-222
-Y6-	22+50 - 28+00	7, 25	72	223-226
-Y6DET-	11+00 - 14+00	25	73	227-229
-Y6DET-	35+50 - 39+50	30	74	230-231
-Y7-	10+00 - 20+50	9, 26	75	232-237
-Y7A-	11+00 - 21+00	9-10	76	238-242
-Y9FLY-	10+50 - 52+50	12-13, 27	77-80	243-250
-Y9LP-	11+50 - 17+00	13	81	NONE
-Y9RPC-	10+00 - 32+00	13, 27	82-83	251
-Y9RPD-	12+50 - 29+00	13-14, 27	84-85	NONE
-Y10-	17+00 - 49+00	15, 28-29	86-88	252-255
-Y10LPB-	10+50 - 17+00	15	89	NONE
-Y10LPD-	10+50 - 19+00	15	90	256-258
-Y10RPB-	10+00 - 24+00	14-15	91-92	259-260
-Y10RPD-	11+00 - 30+50	15-16	93-94	261-266
-Y11-/-CD-	11+00 - 73+50	5, 17-22	95-99	267-280
-Y12-	14+00 - 51+50	14-15, 27	100-102	281-288
-Y13-	14+00 - 26+00	15	103-104	289-295
-Y14-	10+50 - 18+50	31	105	296-297
BORING LOG	-RPD- 27+50, 250 FT RT			298
SUMMARY OF LAB TEST RESULTS				299-316

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INVESTIGATED BY *Youngblood, C. A.*
CHECKED BY *Johnson, J. S.*
SUBMITTED BY *Deobald, W. B.*
DATE *August, 2013*

NORTH CAROLINA LICENSED 8/29/13 SEAL 1927 GEOLOGIST MICHAEL B. LEAR

amec

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SIGNATURE

NC Engineering F-1253 NC Geology C-247

CONTRACT: ID: R-2536B

PROJECT REFERENCE NO.	SHEET NO.
34450.1.1	2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

SOIL DESCRIPTION

SOIL IS CONSIDERED TO BE THE UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERIALS THAT CAN BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER, AND YIELD LESS THAN 100 BLOWS PER FOOT ACCORDING TO STANDARD PENETRATION TEST (AASHTO T206, ASTM D-1586). SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM. BASIC DESCRIPTIONS GENERALLY SHALL INCLUDE: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. EXAMPLE:

VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6

SOIL LEGEND AND AASHTO CLASSIFICATION

GENERAL CLASS.	GRANULAR MATERIALS (≤ 35% PASSING #200)							SILT-CLAY MATERIALS (> 35% PASSING #200)				ORGANIC MATERIALS		
GROUP CLASS.	A-1		A-3	A-2				A-4	A-5	A-6	A-7	A-1, A-2 A-3	A-4, A-5 A-6, A-7	
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5 A-7-6			
SYMBOL														
% PASSING #10	50 MX											GRANULAR SOILS	SILT-CLAY SOILS	MUCK, PEAT
#40	30 MX	50 MX	51 MN											
#200	15 MX	25 MX	10 MX	35 MX	35 MX	35 MX	35 MX	36 MN	36 MN	36 MN	36 MN			
LIQUID LIMIT	6 MX		NP	40 MX	41 MN	40 MX	41 MN	40 MX	41 MN	40 MX	41 MN	SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER		HIGHLY ORGANIC SOILS
PLASTIC INDEX				10 MX	10 MX	11 MN	11 MN	10 MX	10 MX	11 MN	11 MN			
GROUP INDEX	0		0	0		4 MX		8 MX	12 MX	16 MX	No MX			
USUAL TYPES OF MAJOR MATERIALS	STONE FRAGS. GRAVEL, AND SAND		FINE SAND	SILTY OR CLAYEY GRAVEL AND SAND				SILTY SOILS		CLAYEY SOILS				
GEN. RATING AS A SUBGRADE	EXCELLENT TO GOOD							FAIR TO POOR				FAIR TO POOR	POOR	UNSUITABLE

PI OF A-7-5 SUBGROUP IS ≤ LL - 30 ; PI OF A-7-6 SUBGROUP IS > LL - 30

CONSISTENCY OR DENSENESS

PRIMARY SOIL TYPE	COMPACTNESS OR CONSISTENCY	RANGE OF STANDARD PENETRATION RESISTENCE (N-VALUE)	RANGE OF UNCONFINED COMPRESSIVE STRENGTH (TONS/FT^2)
GENERALLY GRANULAR MATERIAL (NON-COHESIVE)	VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE	<4 4 TO 10 10 TO 30 30 TO 50 >50	N/A
GENERALLY SILT-CLAY MATERIAL (COHESIVE)	VERY SOFT SOFT MEDIUM STIFF STIFF VERY STIFF HARD	<2 2 TO 4 4 TO 8 8 TO 15 15 TO 30 >30	<0.25 0.25 TO 0.50 0.5 TO 1.0 1 TO 2 2 TO 4 >4

TEXTURE OR GRAIN SIZE

U.S. STD. SIEVE SIZE	4	10	40	60	200	270
OPENING (MM)	4.76	2.00	0.42	0.25	0.075	0.053

BOULDER (BLDR.)	COBBLE (COB.)	GRAVEL (GR.)	COARSE SAND (CSE. SD.)	FINE SAND (F SD.)	SILT (SL.)	CLAY (CL.)

GRAIN SIZE MM: 305 | 75 | 2.0 | 0.25 | 0.05 | 0.005
GRAIN SIZE IN.: 12 | 3

SOIL MOISTURE - CORRELATION OF TERMS

SOIL MOISTURE SCALE (ATTERBERG LIMITS)	FIELD MOISTURE DESCRIPTION	GUIDE FOR FIELD MOISTURE DESCRIPTION
	- SATURATED - (SAT.)	USUALLY LIQUID; VERY WET, USUALLY FROM BELOW THE GROUND WATER TABLE
LL - LIQUID LIMIT PLASTIC RANGE (PI) PL - PLASTIC LIMIT	- WET - (W)	SEMISOLID; REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE
OM - OPTIMUM MOISTURE SL - SHRINKAGE LIMIT	- MOIST - (M)	SOLID; AT OR NEAR OPTIMUM MOISTURE
	- DRY - (D)	REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE

PLASTICITY

	PLASTICITY INDEX (PI)	DRY STRENGTH
NONPLASTIC	0-5	VERY LOW
LOW PLASTICITY	6-15	SLIGHT
MED. PLASTICITY	16-25	MEDIUM
HIGH PLASTICITY	26 OR MORE	HIGH

COLOR

DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY), MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.

GRADATION

WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE.
UNIFORM - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. (ALSO POORLY GRADED)
GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLES OF TWO OR MORE SIZES.

ANGULARITY OF GRAINS

THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS; ANGULAR, SUBANGULAR, SUBROUNDED, OR ROUNDED.

MINERALOGICAL COMPOSITION

MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN DESCRIPTIONS WHENEVER THEY ARE CONSIDERED OF SIGNIFICANCE.

COMPRESSIBILITY

SLIGHTLY COMPRESSIBLE	LIQUID LIMIT LESS THAN 31
MODERATELY COMPRESSIBLE	LIQUID LIMIT EQUAL TO 31-50
HIGHLY COMPRESSIBLE	LIQUID LIMIT GREATER THAN 50

PERCENTAGE OF MATERIAL

ORGANIC MATERIAL	GRANULAR SOILS	SILT - CLAY SOILS
TRACE OF ORGANIC MATTER	2 - 3%	3 - 5%
LITTLE ORGANIC MATTER	3 - 5%	5 - 12%
MODERATELY ORGANIC	5 - 10%	12 - 20%
HIGHLY ORGANIC	>10%	>20%

OTHER MATERIAL	
TRACE	1 - 10%
LITTLE	10 - 20%
SOME	20 - 35%
HIGHLY	35% AND ABOVE

GROUND WATER

- WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING
- STATIC WATER LEVEL AFTER 24 HOURS
- PW PERCHED WATER, SATURATED ZONE, OR WATER BEARING STRATA
- SPRING OR SEEP

MISCELLANEOUS SYMBOLS

- ROADWAY EMBANKMENT (RE) WITH SOIL DESCRIPTION
- SOIL SYMBOL
- ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT
- INFERRED SOIL BOUNDARY
- INFERRED ROCK LINE
- ALLUVIAL SOIL BOUNDARY
- 25/025 DIP & DIP DIRECTION OF ROCK STRUCTURES
- SPT DPT DMT VST PMT TEST BORING
- AUGER BORING
- CORE BORING
- MW MONITORING WELL
- PIEZOMETER INSTALLATION
- SLOPE INDICATOR INSTALLATION
- CONE PENETROMETER TEST
- SOUNDING ROD
- TEST BORING W/ CORE
- SPT N-VALUE
- REF SPT REFUSAL

ABBREVIATIONS

AR - AUGER REFUSAL
BT - BORING TERMINATED
CL. - CLAY
CPT - CONE PENETRATION TEST
CSE. - COARSE
DMT - DILATOMETER TEST
DPT - DYNAMIC PENETRATION TEST
e - VOID RATIO
F - FINE
FOSS. - FOSSILIFEROUS
FRAC. - FRACTURED, FRACTURES
FRAGS. - FRAGMENTS
HI. - HIGHLY
MED. - MEDIUM
MICA. - MICACEOUS
MOD. - MODERATELY
NP - NON PLASTIC
ORG. - ORGANIC
PMT - PRESSUREMETER TEST
SAP. - SAPROLITIC
SD. - SAND, SANDY
SL. - SILT, SILTY
SLI. - SLIGHTLY
TCR - TRICONE REFUSAL
w - MOISTURE CONTENT
V - VERY
VST - VANE SHEAR TEST
WEA. - WEATHERED
γ - UNIT WEIGHT
γ_d - DRY UNIT WEIGHT

SAMPLE ABBREVIATIONS
S - BULK
SS - SPLIT SPOON
ST - SHELBY TUBE
RS - ROCK
RT - RECOMPACTED TRIAXIAL
CBR - CALIFORNIA BEARING RATIO

EQUIPMENT USED ON SUBJECT PROJECT

DRILL UNITS:
- [X] MOBILE B- 57
- [X] CME-55
- [X] CME-45C
- [X] CME-550
- [ ] PORTABLE HOIST
- [ ] _____
- [ ] _____

ADVANCING TOOLS:
- [ ] CLAY BITS
- [X] 6" CONTINUOUS FLIGHT AUGER
- [X] 8" HOLLOW AUGERS
- [ ] HARD FACED FINGER BITS
- [ ] TUNG.-CARBIDE INSERTS
- [X] CASING [ ] W/ ADVANCER
- [X] TRICONE 2 7/8" STEEL TEETH
- [ ] TRICONE _____" TUNG.-CARB.
- [X] CORE BIT
- [ ] _____

HAMMER TYPE:
- [X] AUTOMATIC
- [ ] MANUAL

CORE SIZE:
- [ ] -B_____
- [X] -N Q
- [ ] -H_____

HAND TOOLS:
- [ ] POST HOLE DIGGER
- [X] HAND AUGER
- [X] SOUNDING ROD
- [ ] VANE SHEAR TEST
- [ ] _____

ROCK DESCRIPTION

HARD ROCK IS NON-COASTAL PLAIN MATERIAL THAT IF TESTED, WOULD YIELD SPT REFUSAL. AN INFERRED ROCK LINE INDICATES THE LEVEL AT WHICH NON-COASTAL PLAIN MATERIAL WOULD YIELD SPT REFUSAL. SPT REFUSAL IS PENETRATION BY A SPLIT SPOON SAMPLER EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS. IN NON-COASTAL PLAIN MATERIAL, THE TRANSITION BETWEEN SOIL AND ROCK IS OFTEN REPRESENTED BY A ZONE OF WEATHERED ROCK.
ROCK MATERIALS ARE TYPICALLY DIVIDED AS FOLLOWS:

WEATHERED ROCK (WR)	NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT N VALUES > 100 BLOWS PER FOOT IF TESTED.
CRYSTALLINE ROCK (CR)	FINE TO COARSE GRAIN IGNEOUS AND METAMORPHIC ROCK THAT WOULD YIELD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES GRANITE, GNEISS, GABBRO, SCHIST, ETC.
NON-CRYSTALLINE ROCK (NCR)	FINE TO COARSE GRAIN METAMORPHIC AND NON-COASTAL PLAIN SEDIMENTARY ROCK THAT WOULD YEILD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES PHYLLITE, SLATE, SANDSTONE, ETC.
COASTAL PLAIN SEDIMENTARY ROCK (CP)	COASTAL PLAIN SEDIMENTS CEMENTED INTO ROCK, BUT MAY NOT YIELD SPT REFUSAL. ROCK TYPE INCLUDES LIMESTONE, SANDSTONE, CEMENTED SHELL BEDS, ETC.

WEATHERING

FRESH	ROCK FRESH, CRYSTALS BRIGHT, FEW JOINTS MAY SHOW SLIGHT STAINING. ROCK RINGS UNDER HAMMER IF CRYSTALLINE.
VERY SLIGHT (V SLI.)	ROCK GENERALLY FRESH, JOINTS STAINED, SOME JOINTS MAY SHOW THIN CLAY COATINGS IF OPEN, CRYSTALS ON A BROKEN SPECIMEN FACE SHINE BRIGHTLY. ROCK RINGS UNDER HAMMER BLOWS IF OF A CRYSTALLINE NATURE.
SLIGHT (SLI.)	ROCK GENERALLY FRESH, JOINTS STAINED AND DISCOLORATION EXTENDS INTO ROCK UP TO 1 INCH. OPEN JOINTS MAY CONTAIN CLAY. IN GRANITOID ROCKS SOME OCCASIONAL FELDSPAR CRYSTALS ARE DULL AND DISCOLORED. CRYSTALLINE ROCKS RING UNDER HAMMER BLOWS.
MODERATE (MOD.)	SIGNIFICANT PORTIONS OF ROCK SHOW DISCOLORATION AND WEATHERING EFFECTS. IN GRANITOID ROCKS, MOST FELDSPARS ARE DULL AND DISCOLORED, SOME SHOW CLAY. ROCK HAS DULL SOUND UNDER HAMMER BLOWS AND SHOWS SIGNIFICANT LOSS OF STRENGTH AS COMPARED WITH FRESH ROCK.
MODERATELY SEVERE (MOD. SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. IN GRANITOID ROCKS, ALL FELDSPARS DULL AND DISCOLORED AND A MAJORITY SHOW KAOLINIZATION. ROCK SHOWS SEVERE LOSS OF STRENGTH AND CAN BE EXCAVATED WITH A GEOLOGIST'S PICK. ROCK GIVES "CLUNK" SOUND WHEN STRUCK. *IF TESTED, WOULD YIELD SPT REFUSAL*
SEVERE (SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC CLEAR AND EVIDENT BUT REDUCED IN STRENGTH TO STRONG SOIL. IN GRANITOID ROCKS ALL FELDSPARS ARE KAOLINIZED TO SOME EXTENT. SOME FRAGMENTS OF STRONG ROCK USUALLY REMAIN. *IF TESTED, YIELDS SPT N VALUES > 100 BPF*
VERY SEVERE (V SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC ELEMENTS ARE DISCERNIBLE BUT THE MASS IS EFFECTIVELY REDUCED TO SOIL STATUS, WITH ONLY FRAGMENTS OF STRONG ROCK REMAINING. SAPROLITE IS AN EXAMPLE OF ROCK WEATHERED TO A DEGREE SUCH THAT ONLY MINOR VESTIGES OF THE ORIGINAL ROCK FABRIC REMAIN. *IF TESTED, YIELDS SPT N VALUES < 100 BPF*
COMPLETE	ROCK REDUCED TO SOIL. ROCK FABRIC NOT DISCERNIBLE, OR DISCERNIBLE ONLY IN SMALL AND SCATTERED CONCENTRATIONS. QUARTZ MAY BE PRESENT AS DIKES OR STRINGERS. SAPROLITE IS ALSO AN EXAMPLE.

ROCK HARDNESS

VERY HARD	CANNOT BE SCRATCHED BY KNIFE OR SHARP PICK. BREAKING OF HAND SPECIMENS REQUIRES SEVERAL HARD BLOWS OF THE GEOLOGIST'S PICK.
HARD	CAN BE SCRATCHED BY KNIFE OR PICK ONLY WITH DIFFICULTY. HARD HAMMER BLOWS REQUIRED TO DETACH HAND SPECIMEN.
MODERATELY HARD	CAN BE SCRATCHED BY KNIFE OR PICK. GOUGES OR GROOVES TO 0.25 INCHES DEEP CAN BE EXCAVATED BY HARD BLOW OF A GEOLOGIST'S PICK. HAND SPECIMENS CAN BE DETACHED BY MODERATE BLOWS.
MEDIUM HARD	CAN BE GROOVED OR GOUGED 0.05 INCHES DEEP BY FIRM PRESSURE OF KNIFE OR PICK POINT. CAN BE EXCAVATED IN SMALL CHIPS TO PEICES 1 INCH MAXIMUM SIZE BY HARD BLOWS OF THE POINT OF A GEOLOGIST'S PICK.
SOFT	CAN BE GROVED OR GOUGED READILY BY KNIFE OR PICK. CAN BE EXCAVATED IN FRAGMENTS FROM CHIPS TO SEVERAL INCHES IN SIZE BY MODERATE BLOWS OF A PICK POINT. SMALL, THIN PIECES CAN BE BROKEN BY FINGER PRESSURE.
VERY SOFT	CAN BE CARVED WITH KNIFE. CAN BE EXCAVATED READILY WITH POINT OF PICK. PIECES 1 INCH OR MORE IN THICKNESS CAN BE BROKEN BY FINGER PRESSURE. CAN BE SCRATCHED READILY BY FINGERNAIL.

FRACTURE SPACING

TERM	SPACING
VERY WIDE	MORE THAN 10 FEET
WIDE	3 TO 10 FEET
MODERATELY CLOSE	1 TO 3 FEET
CLOSE	0.16 TO 1 FEET
VERY CLOSE	LESS THAN 0.16 FEET

BEDDING

TERM	THICKNESS
VERY THICKLY BEDDED	> 4 FEET
THICKLY BEDDED	1.5 - 4 FEET
THINLY BEDDED	0.16 - 1.5 FEET
VERY THINLY BEDDED	0.03 - 0.16 FEET
THICKLY LAMINATED	0.008 - 0.03 FEET
THINLY LAMINATED	< 0.008 FEET

INDURATION

FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF THE MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC.

FRIABLE	RUBBING WITH FINGER FREES NUMEROUS GRAINS; GENTLE BLOW BY HAMMER DISINTEGRATES SAMPLE.
MODERATELY INDURATED	GRAINS CAN BE SEPARATED FROM SAMPLE WITH STEEL PROBE; BREAKS EASILY WHEN HIT WITH HAMMER.
INDURATED	GRAINS ARE DIFFICULT TO SEPARATE WITH STEEL PROBE; DIFFICULT TO BREAK WITH HAMMER.
EXTREMELY INDURATED	SHARP HAMMER BLOWS REQUIRED TO BREAK SAMPLE; SAMPLE BREAKS ACROSS GRAINS.

TERMS AND DEFINITIONS

ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER.

AQUIFER - A WATER BEARING FORMATION OR STRATA.

ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND.

ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, AS SHALE, SLATE, ETC.

ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE.

CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.

COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.

CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL 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 ROCKS OR CUTS MASSIVE ROCK.

DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL.

DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.

FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.

FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.

FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL.

FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.

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.

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.

MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE.

PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM.

RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.

ROCK QUALITY DESIGNATION (RQD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.

SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK.

SILL - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS.

SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE.

STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (N OR BPF) OF A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS.

STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.

STRATA ROCK QUALITY DESIGNATION (SRQD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS WITHIN A STRATUM EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE.

TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.

BENCH MARK: BORING COLLAR ELEVATIONS DETERMINED FROM NCDOT ELECTRONIC PROJECT FILES.

ELEVATION: FT.

NOTES:

FIAD - FILLED IMMEDIATELY AFTER DRILLING
CT - CORING TERMINATED
RSR - ROD SOUNDING REFUSAL
HAR - HAND AUGER REFUSAL

09/08/99

TIP PROJECT: R-2536B

CONTRACT:

29-AUG-2013 09:59
C:\Users\royalrahie\Desktop\R2536B_Asheboro\R2612B_Asheboro_GEO\CADD_GEOTECH\PlanProf\r2536b_GEO_inv_rdy_tsh.dgn
royalrahie AT DOT13738

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

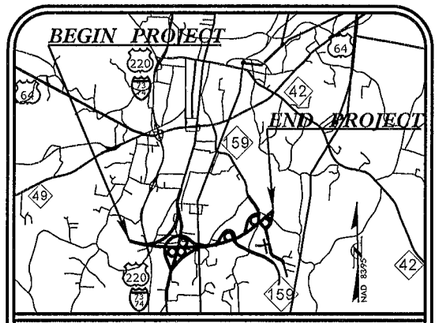
RANDOLPH COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2536B	3	

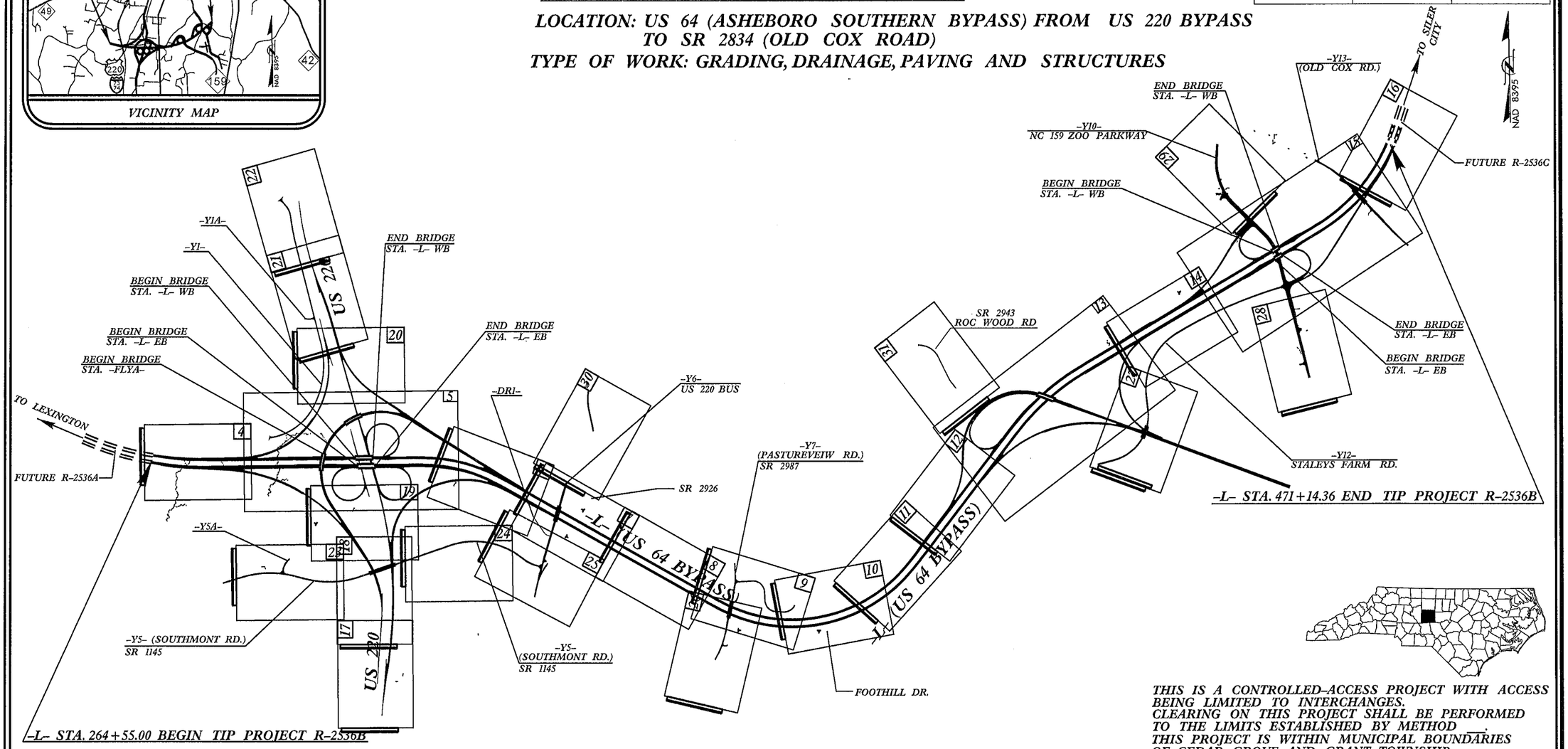
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
34450.1.1	NHF-64 (19)	P.E.

LOCATION: US 64 (ASHEBORO SOUTHERN BYPASS) FROM US 220 BYPASS TO SR 2834 (OLD COX ROAD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURES



VICINITY MAP



THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD ___.
THIS PROJECT IS WITHIN MUNICIPAL BOUNDARIES OF CEDAR GROVE AND GRANT TOWNSHIP.

GRAPHIC SCALES

50 25 0 50 100 — PLANS

50 25 0 50 100 — PROFILE (HORIZONTAL)

10 5 0 10 20 — PROFILE (VERTICAL)

DESIGN DATA

ADT 2008 = 8,050
ADT 2035 = 27,250
DHV = 11 %
D = 55 %
T = 13 % *
V = 70 MPH
FUNC CLASS = FREEWAY
* TTST 4% DUAL 9%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2536B =
LENGTH STRUCTURE TIP PROJECT R-2536B =
TOTAL LENGTH TIP PROJECT R-2536B = 3.913 mi.

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: OCTOBER 19, 2012

LETTING DATE: DECEMBER 16, 2014

JIMMY GOODNIGHT, P.E.
PROJECT ENGINEER

MARK HUSSEY
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER
SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER
SIGNATURE: P.E.

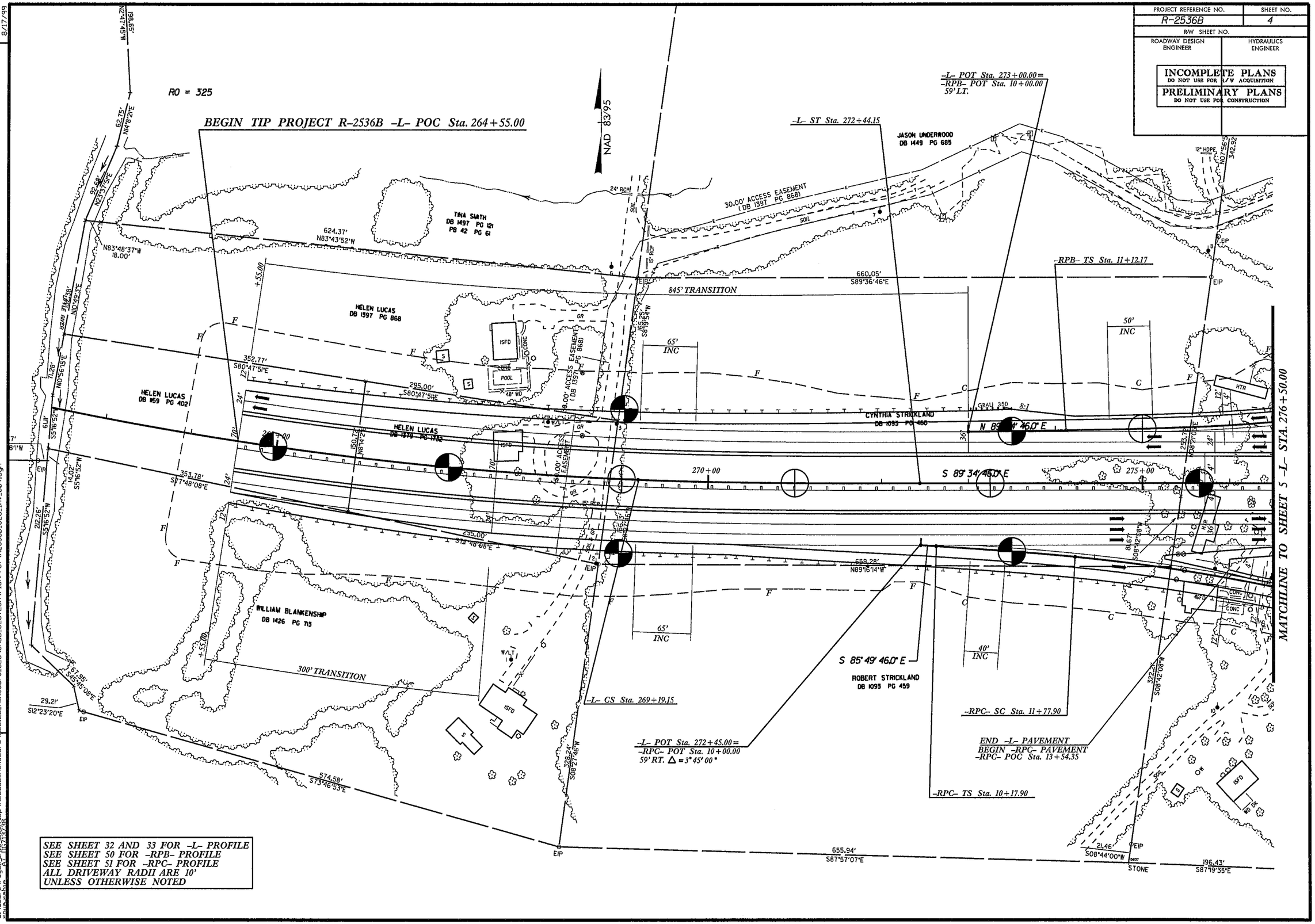
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER P.E.

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



SEE SHEET 32 AND 33 FOR -L- PROFILE
SEE SHEET 50 FOR -RPB- PROFILE
SEE SHEET 51 FOR -RPC- PROFILE
ALL DRIVEWAY RADII ARE 10'
UNLESS OTHERWISE NOTED

REVISIONS

8/17/99

29-AUG-2013 09:59
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REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-2530B	5

F.A. PROJ. NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SEE SHEETS 33, 34, AND 35 FOR -L- PROFILE
SEE SHEET 49 FOR -RPA- PROFILE
SEE SHEETS 50 & 51 FOR -RPB- PROFILE
SEE SHEET 51 FOR -RPC- PROFILE
SEE SHEETS 52 & 53 FOR -RPD- PROFILE
SEE SHEET 48 FOR -LPA- PROFILE
SEE SHEET 48 FOR -LPC- PROFILE
SEE SHEET 49 FOR -LPD- PROFILE
SEE SHEET 57 FOR -CD- PROFILE
SEE SHEETS 53 & 54 FOR -FLYA- PROFILE
SEE SHEET 58 FOR -YI- PROFILE
SEE SHEETS 2-L & 2-M FOR BRIDGE AND PAVEMENT SKETCHES
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED

-RPD-

PI Sta 13+00.00	PI Sta 9+00.00
BK = 0°00'00.0"	Δ = 42°27'42.8" (RT)
LT = 200.00'	D = 7°09'43"
LC = 400.00'	L = 424.79'
SE = 3.1%	R = 800.00'
	SE = 0%
	RO = SEE PLANS

PI Sta 9+00.00	PI Sta 14+00.00
Δ = 59°30'27.2" (RT)	Δ = 0°00'00.0"
D = 7°09'43"	D = 0°00'00"
L = 424.79'	L = 0.00'
R = 800.00'	R = ∞
SE = 0%	SE = 0%
RO = SEE PLANS	RO = SEE PLANS

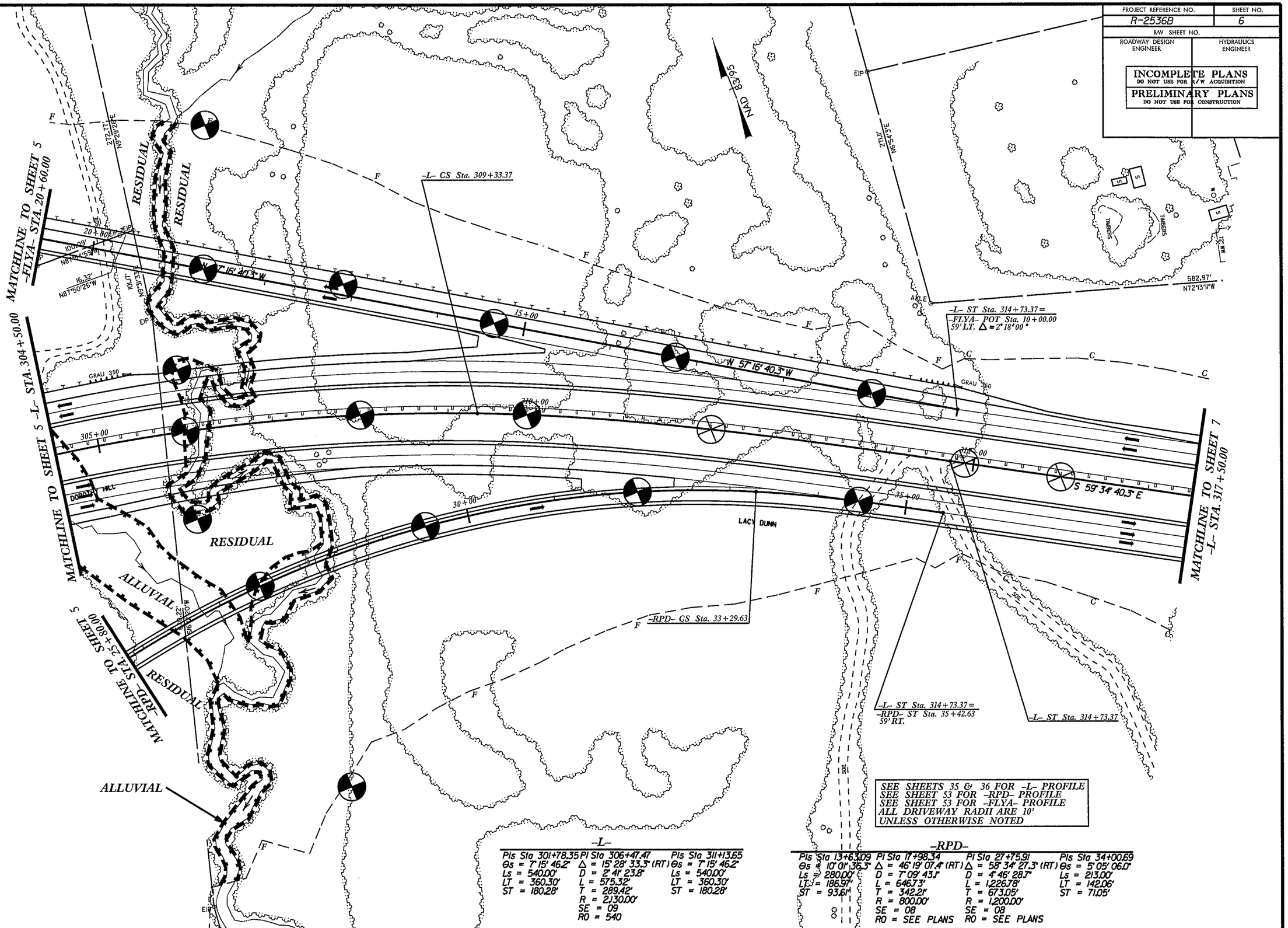
-CD-

PI Sta 14+00.00	PI Sta 24+00.00
Δ = 0°00'00.0"	Δ = 87°30'00.0" (LT)
D = 0°00'00"	D = 5°44'01"
L = 0.00'	L = 1,254.19'
R = ∞	R = 200.00'
SE = 0%	SE = 0%
RO = SEE PLANS	RO = SEE PLANS

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



-L-

Pls Sta 301+78.35	Pl Sta 306+47.47	Pls Sta 311+13.65
Θs = 7° 15' 46.2"	Δ = 15° 28' 33.3" (RT)	Θs = 7° 15' 46.2"
Ls = 540.00'	D = 2° 41' 23.8"	Ls = 540.00'
LT = 360.30'	L = 575.32'	LT = 360.30'
ST = 180.28'	T = 289.42'	ST = 180.28'
	R = 2,130.00'	
	SE = 09	
	RO = 540	

-RPD-

Pls Sta 13+63.09	Pl Sta 17+98.34	Pl Sta 27+75.91	Pls Sta 34+00.69
Θs = 10° 01' 36.3"	Δ = 46° 19' 07.4" (RT)	Δ = 58° 34' 27.3" (RT)	Θs = 5° 05' 06.0"
Ls = 280.00'	D = 7° 09' 43.1"	D = 4° 46' 28.7"	Ls = 213.00'
LT = 186.97'	L = 646.73'	L = 1,226.78'	LT = 142.06'
ST = 93.61'	T = 342.21'	T = 673.05'	ST = 71.05'
	R = 800.00'	R = 1,200.00'	
	SE = 08	SE = 08	
	RO = SEE PLANS	RO = SEE PLANS	

REVISIONS

8/17/99

23-AUG-2013 10:00
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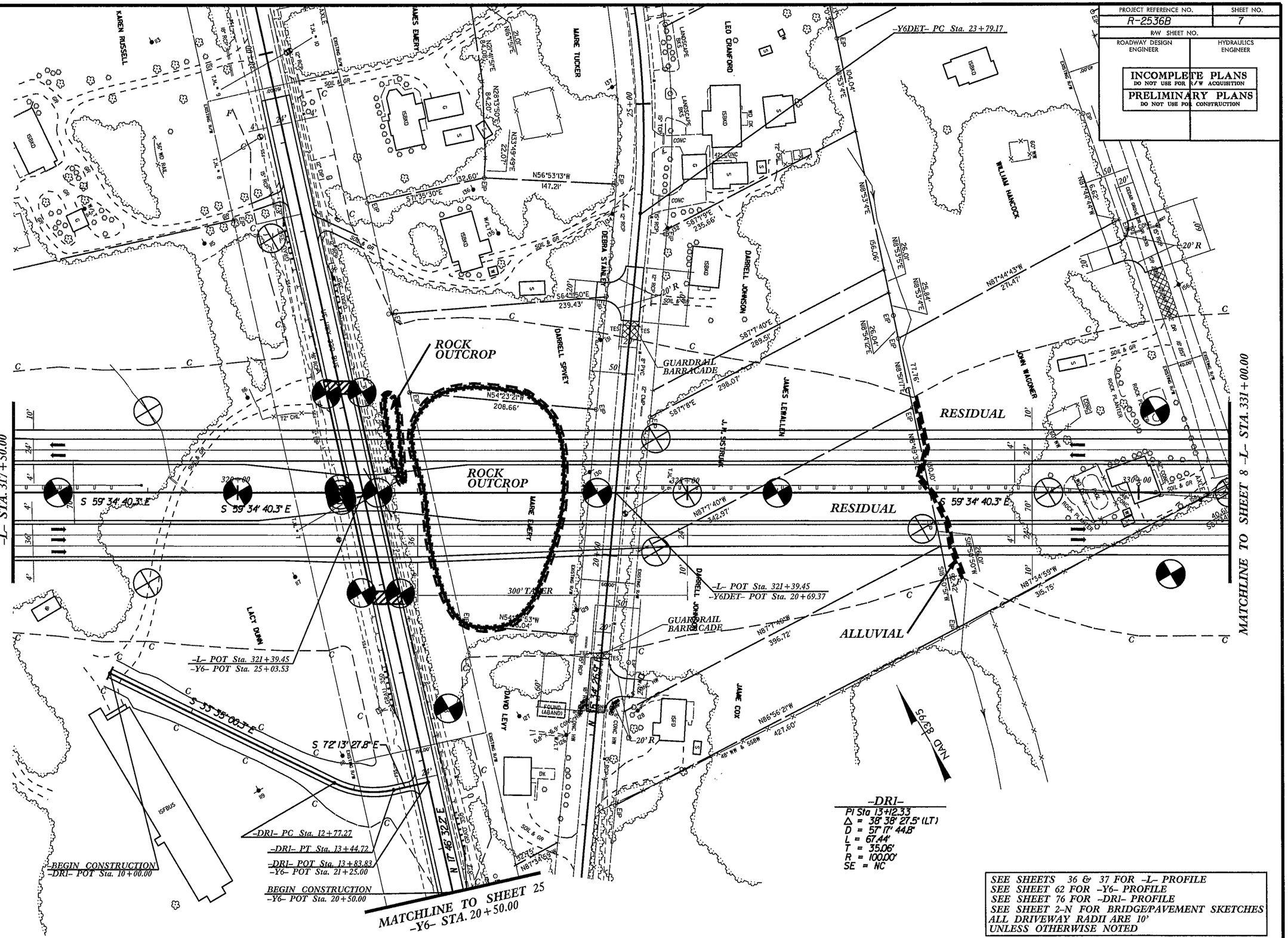
powerphe AT h6713738

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



SEE SHEETS 36 & 37 FOR -L- PROFILE
SEE SHEET 62 FOR -Y6- PROFILE
SEE SHEET 76 FOR -DRI- PROFILE
SEE SHEET 2-N FOR BRIDGE/PAVEMENT SKETCHES
ALL DRIVEWAY RADII ARE 10'
UNLESS OTHERWISE NOTED

REVISIONS

8/17/99

29-AUG-2013 10:00
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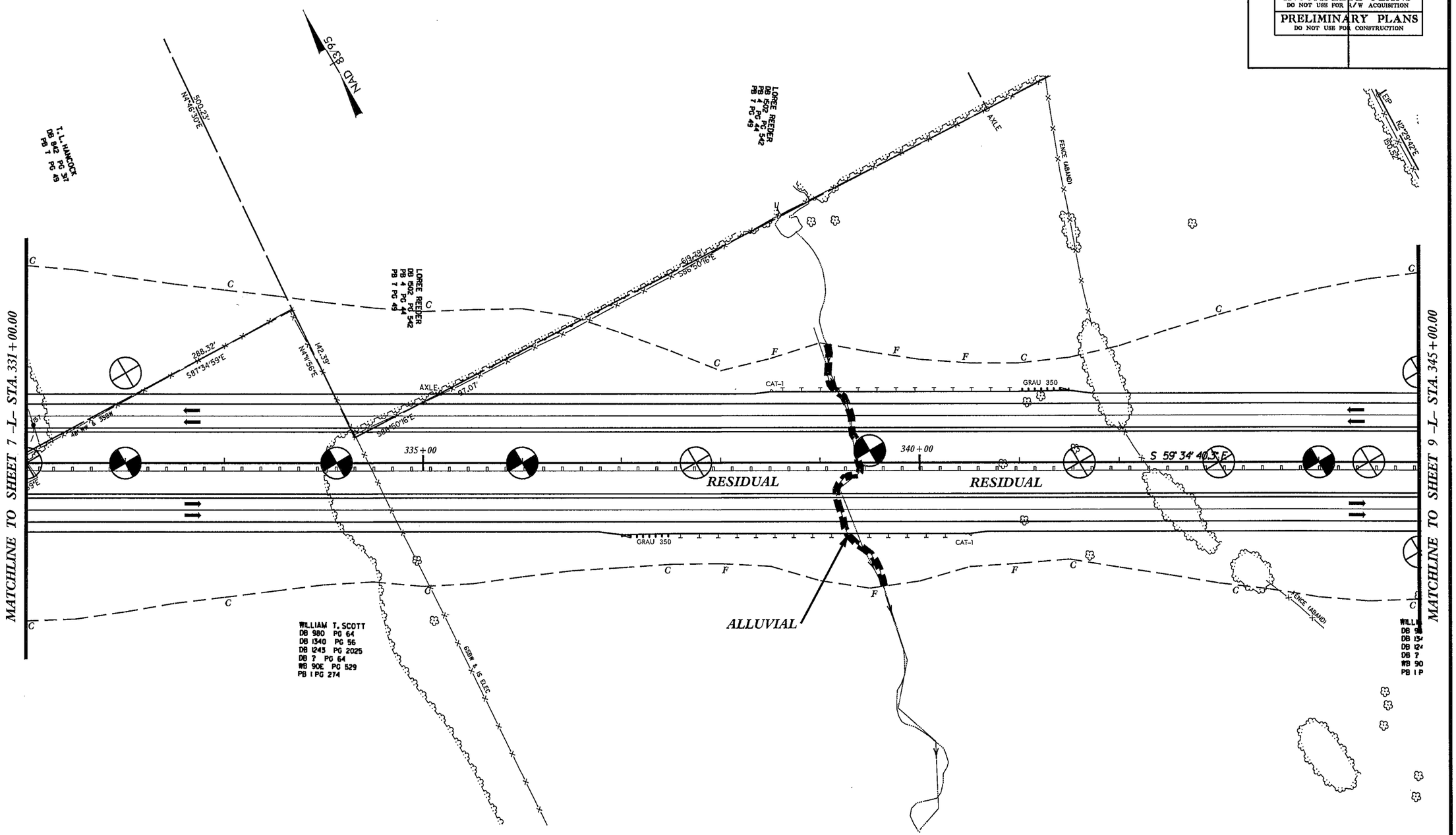
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



SEE SHEETS 37 & 38 FOR -L- PROFILE
ALL DRIVEWAY RADII ARE 10'
UNLESS OTHERWISE NOTED

REVISIONS

8/17/99

28-AUG-2013 10:00
C:\Users\kbrooks\Desktop\R2536B_Asheboro\R2612B_Asheboro_GEO\CADD_GEOTECH\PlanProf\R2536B_GEO_inv_008.dgn
FORM PSH-18 A1 DIR:713728

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SEE SHEETS 38 & 39 FOR -L- PROFILE
SEE SHEET 64 FOR -Y7- PROFILE
SEE SHEET 76 FOR -DR3- PROFILE
SEE SHEET 77 FOR -DR4- PROFILE
SEE SHEET 2-O FOR BRIDGE/PAVEMENT SKETCH
ALL DRIVEWAY RADII ARE 10'
UNLESS OTHERWISE NOTED

-L-
PIs Sta 347+76.73
Θs = 5° 26' 49.7"
Ls = 405.00'
LT = 270.13'
ST = 135.12'

PI Sta 364+28.66
Δ = 7° 55' 10.4" (LT)
D = 2° 41' 23.8"
L = 236.47'
T = 117.06'
R = 2130.00'
SE = 08
RO = 405

PIs Sta 376+83.19
Θs = 5° 26' 49.7"
Ls = 405.00'
LT = 270.13'
ST = 135.12'

-Y7A-
PI Sta 14+02.21
Δ = 90° 13' 52.7" (RT)
D = 35° 48' 35.5"
L = 251.97'
T = 160.55'
R = 160.00'
SE = 04
RO = SEE PLANS

PI Sta 17+59.79
Δ = 83° 53' 25.8" (LT)
D = 35° 48' 35.5"
L = 234.27'
T = 143.79'
R = 160.00'
SE = 04
RO = SEE PLANS

PI Sta 20+72.02
Δ = 68° 57' 10.6" (LT)
D = 35° 48' 35.5"
L = 192.85'
T = 109.87'
R = 160.00'
SE = 04
RO = SEE PLANS

-Y7-
PI Sta 12+15.99
Δ = 16° 12' 50.3" (LT)
D = 5° 24' 18.9"
L = 299.97'
T = 150.99'
R = 1,060.00'
SE = 06
RO = 153

PI Sta 21+10.22
Δ = 16° 04' 26.7" (LT)
D = 5° 24' 18.9"
L = 298.88'
T = 150.25'
R = 1,060.00'
SE = 06
RO = 153

-Y7A- POT Sta. 10+00.00
-Y7- POC Sta. 21+25.06
-Y7- POT Sta. 23+84.97
-Y7A- PC Sta. 12+41.56
-Y7A- PT Sta. 14+93.53
END CONSTRUCTION
-Y7- POT Sta. 22+50.000
-Y7- PT Sta. 22+48.84
-Y7A- PC Sta. 16+16.00
-Y7A- PT Sta. 18+50.27
-Y7A- PC Sta. 19+62.15
-DR4- POT Sta. 10+00.00
-Y7- POC Sta. 19+81.33
-DR4- POT Sta. 10+67.15
-DR3- POT Sta. 11+94.33
-Y7- PC Sta. 19+69.97
-DR3- POT Sta. 10+00.00
-Y7- POT Sta. 19+26.05
-L- POT Sta. 349+04.62
-Y7- POT Sta. 17+25.42
-L- TS Sta. 345+06.60
-L- SC Sta. 349+11.60

MATCHLINE TO SHEET 8 -L- STA. 345+00.00
MATCHLINE TO SHEET 10 -L- STA. 358+00.00
MATCHLINE TO SHEET 26 -Y7- STA. 14+75.00

ENRIQUE HERNANDEZ
ONOFRE NAVARRO
NELVA GALARZA
TYREE HARRIS
BRENDA BANKS
HELEN STEPHENSON
GRACIELA HERNANDEZ
NEAL CRAVEN
LUIS HERNANDEZ
SORA VENCES
PEDRO ESTEBAN
PETRA
CRISTINA CRUZ
M T. SCOTT
LYNETTE S. GARNER
HERMAN K. MADDWELL, JR.
LYNETTE S. GARNER AND HERMAN K. MADDWELL, JR., LLC
ALLUVIAL
FALSING LARGE
POND
10.00' SEWER EASEMENT
PROGRESS ENERGY TRANSMISSION LINE 50.00' R/W
100.00' SEPTIC FIELD
150.00' SEPTIC FIELD
24' ROCK WALL
N 88° 00' 43.0" E
S 45° 24' 37.5" E
S 77° 24' 37.5" E
S 71° 09' 52.4" E
N 13° 12' 14.2" E
NAD 83/96

REVISIONS

8/17/99

29-AUG-2013 10:00
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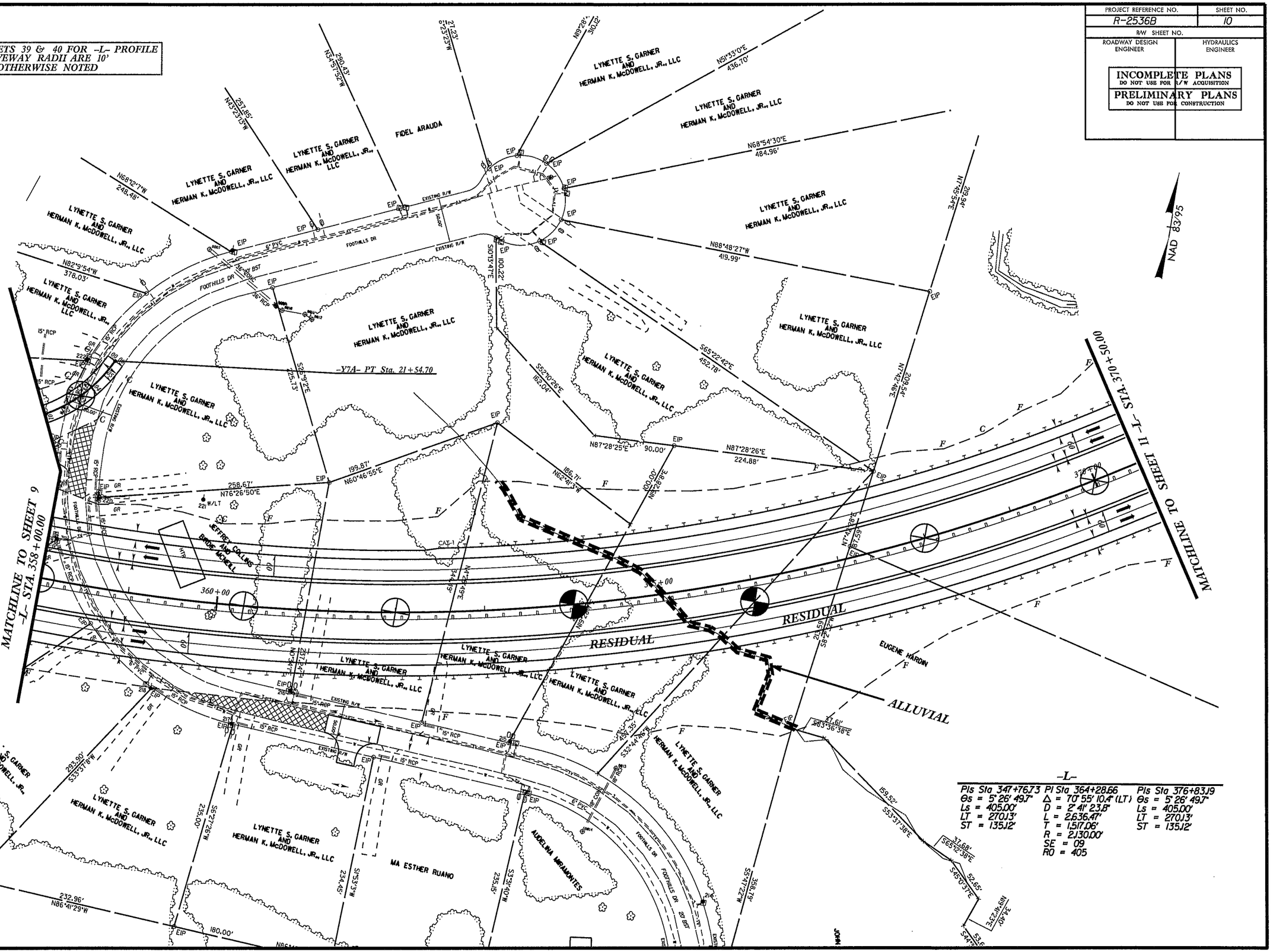
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SEE SHEETS 39 & 40 FOR -L- PROFILE
ALL DRIVEWAY RADII ARE 10'
UNLESS OTHERWISE NOTED



REVISIONS

8/17/99

29-AUG-2013 10:00
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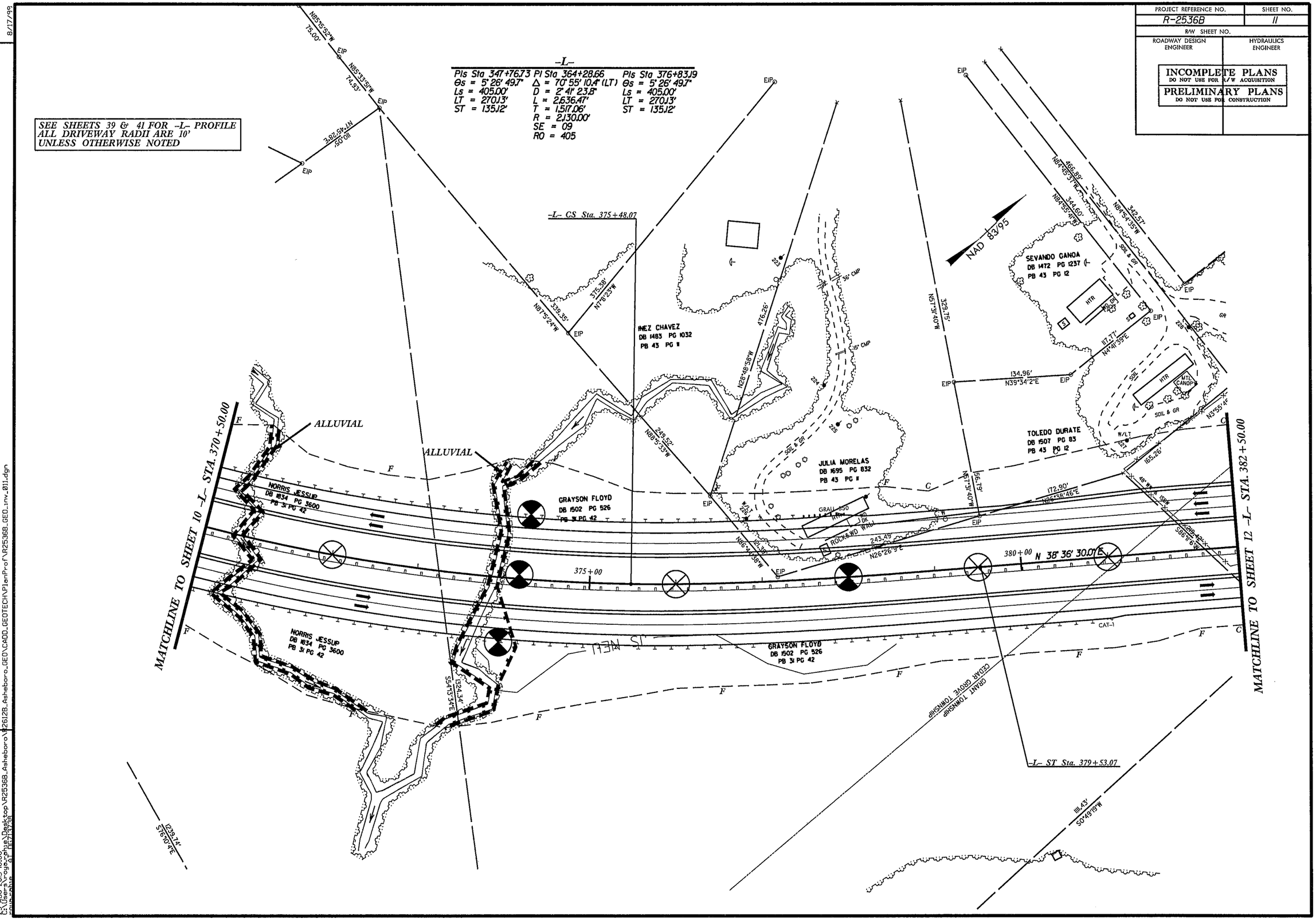
roupanphe 8.0 11/27/98

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



REVISIONS

8/17/99

28-AUG-2013 10:00
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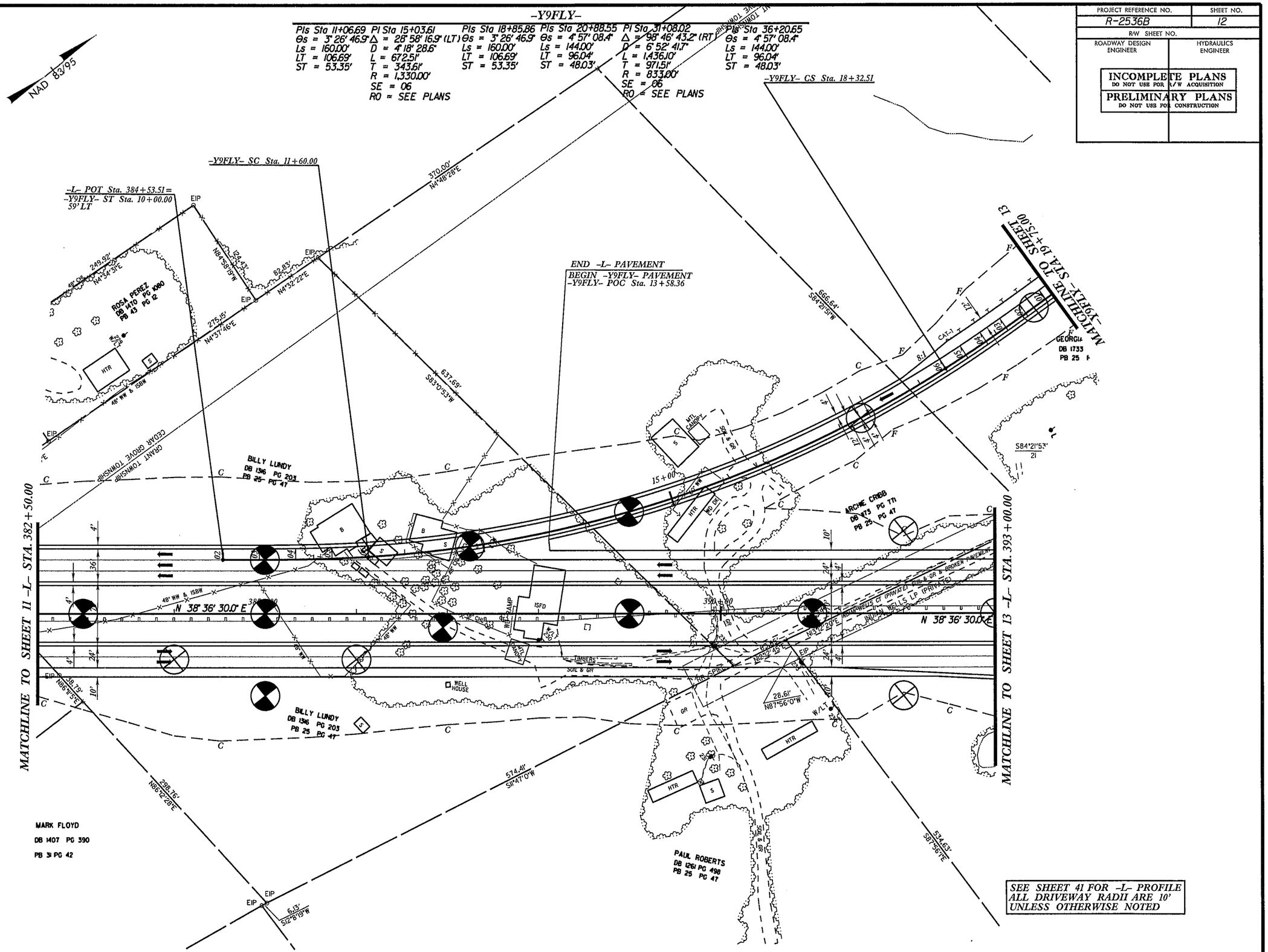
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



REVISIONS

8/17/99

28-AUG-2013 10:00
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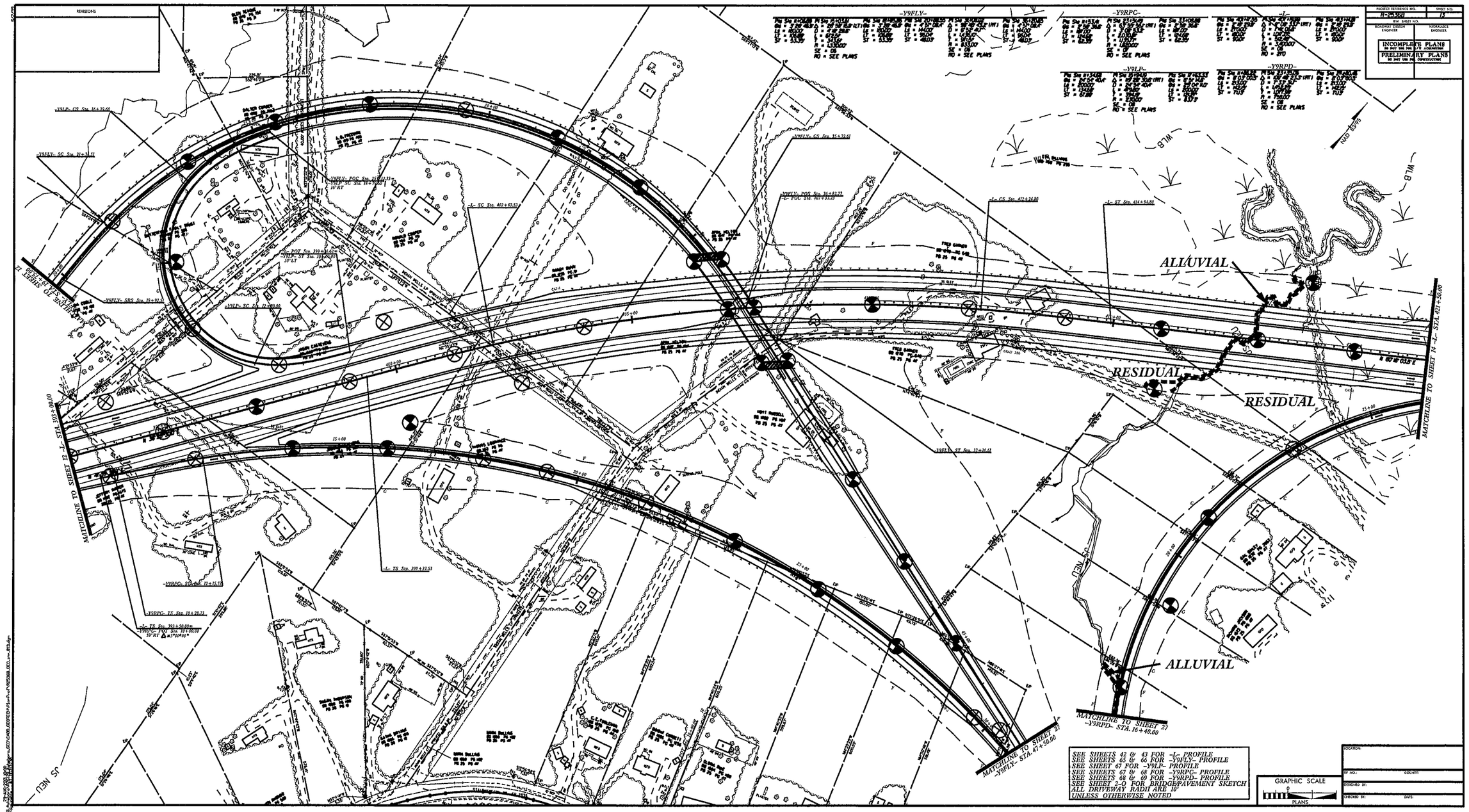
rogerphis


REVISIONS
PROJECT REFERENCE NO.
R-2559B
SHEET NO.
15
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
INCOMPLETE PLANS
DO NOT USE FOR CONSTRUCTION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
-Y9FLY-
-Y9RPC-
-Y9LP-
-Y9RPD-
RD = SEE PLANS
ALLUVIAL
RESIDUAL
RESIDUAL
ALLUVIAL
MATCHLINE TO SHEET 12 -Y9FLY- STA. 893+00.00
MATCHLINE TO SHEET 14 -Y9FLY- STA. 921+50.00
MATCHLINE TO SHEET 27 -Y9RPD- STA. 16+40.00
MATCHLINE TO SHEET 27 -Y9FLY- STA. 47+58.00
SEE SHEETS 42 & 43 FOR -L- PROFILE
SEE SHEETS 65 & 66 FOR -Y9FLY- PROFILE
SEE SHEET 67 FOR -Y9LP- PROFILE
SEE SHEETS 67 & 68 FOR -Y9RPC- PROFILE
SEE SHEETS 68 & 69 FOR -Y9RPD- PROFILE
SEE SHEET 2-O FOR BRIDGE/PAVEMENT SKETCH
ALL DRIVEWAY RADII ARE 10'
UNLESS OTHERWISE NOTED
GRAPHIC SCALE
PLANS
LOCATION:
TIP NO.:
COUNTY:
DESIGNED BY:
CHECKED BY:
DATE:

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y10RPB-

PIs Sta 11+24.68 PI Sta 15+52.46 PIs Sta 19+70.68
Θs = 2° 56' 36.6" Δ = 22° 42' 29.8" (LT) Θs = 2° 56' 36.6"
Ls = 187.00' D = 3° 08' 53.2" Ls = 187.00'
LT = 124.68' L = 721.33' LT = 124.68'
ST = 62.35' T = 365.46' ST = 62.35'
R = 1,820.00'
SE = 07
RO = SEE PLANS

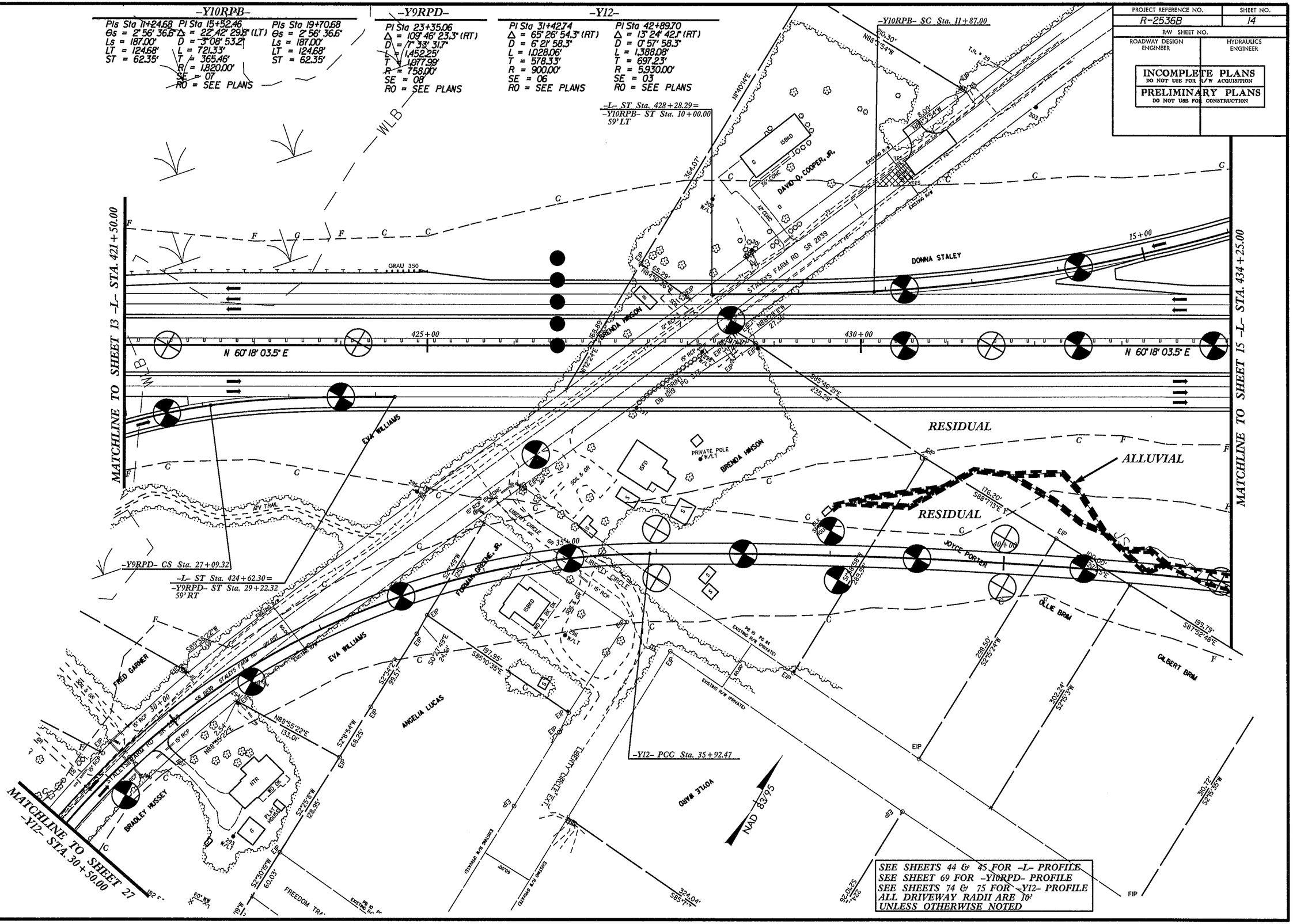
-Y9RPD-

PI Sta 23+35.06
Δ = 109° 46' 23.3" (RT)
D = 1° 33' 31.7"
L = 1,452.25'
T = 1,077.99'
R = 758.00'
SE = 08
RO = SEE PLANS

-Y12-

PI Sta 31+42.74
Δ = 65° 26' 54.3" (RT)
D = 6° 21' 58.3"
L = 1,028.06'
T = 578.33'
R = 900.00'
SE = 06
RO = SEE PLANS

PI Sta 42+89.70
Δ = 13° 24' 42.1" (RT)
D = 0° 57' 58.3"
L = 1,388.08'
T = 697.23'
R = 5,930.00'
SE = 03
RO = SEE PLANS



REVISIONS

8/17/99

28-AUG-2013 10:00
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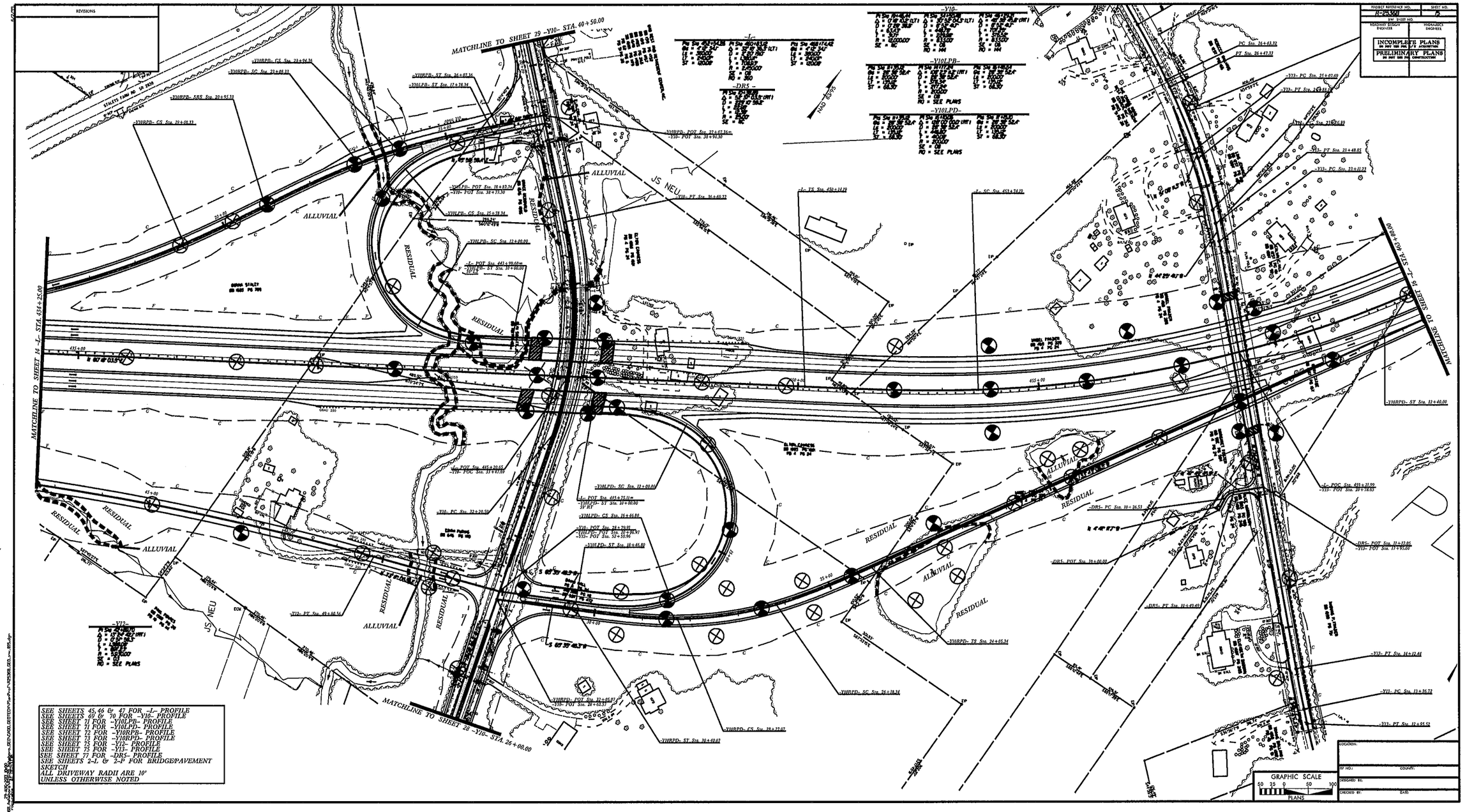
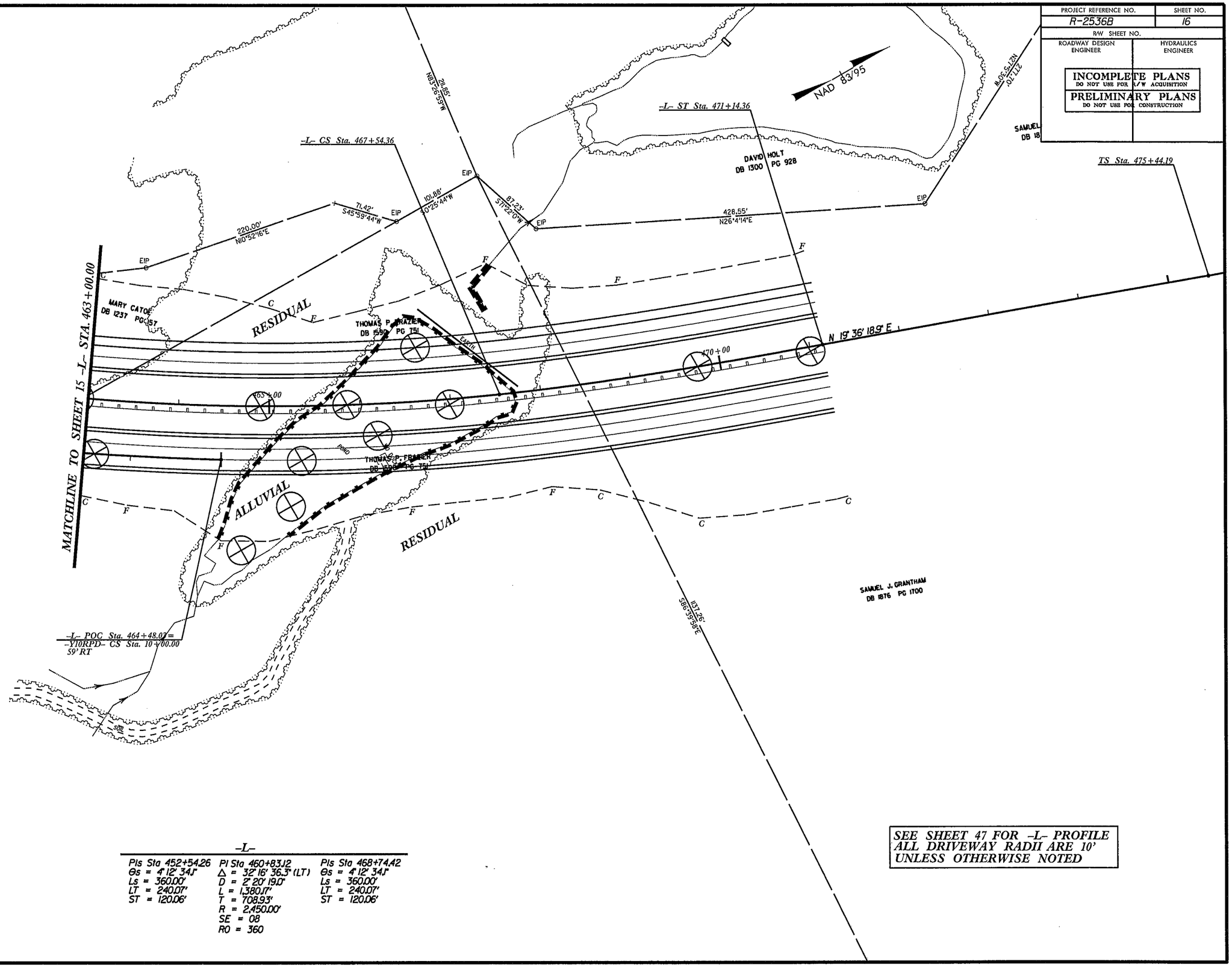

REVISIONS
PROJECT REFERENCE NO.
R-2530B
SHEET NO.
15
1ST. SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
MATCHLINE TO SHEET 29 -Y10- STA. 40+50.00
MATCHLINE TO SHEET 14 -L- STA. 434+25.00
MATCHLINE TO SHEET 16 -L- STA. 460+00.00
MATCHLINE TO SHEET 28 -Y10- STA. 26+00.00
ALLUVIAL
RESIDUAL
JS NEU
-Y10-
-Y10LPB-
-DR5-
-Y10LPD-
-Y10RPB- GS Sta. 23+94.36
-Y10RPB- SC Sta. 23+48.33
-Y10RPB- SRS Sta. 20+55.33
-Y10RPB- GS Sta. 19+68.33
-Y10RPB- ST Sta. 26+07.36
-Y10LPB- ST Sta. 17+78.34
-Y10RPB- POT Sta. 27+67.36m
-Y10- POT Sta. 38+97.30
-Y10LPB- POT Sta. 18+07.76
-Y10- POT Sta. 38+77.30
-Y10LPB- GS Sta. 15+78.34
-Y10LPB- SC Sta. 12+00.00
-Y10LPB- ST Sta. 10+00.00
-Y10- PT Sta. 16+60.77
-L- TS Sta. 450+14.19
-L- SC Sta. 453+76.19
-Y10- POC Sta. 44+20.63
-Y10- FOC Sta. 33+47.09
-L- POT Sta. 445+28.11m
-Y10LPD- ST Sta. 18+00.00 30' RT
-Y10- FC Sta. 32+26.00
-Y10LPD- SC Sta. 12+00.00
-L- POT Sta. 445+28.11m
-Y10LPD- ST Sta. 18+00.00 30' RT
-Y10LPD- CS Sta. 16+45.88
-Y10- POT Sta. 28+79.91
-Y10LPD- POT Sta. 29+00.97
-Y10- POT Sta. 37+50.00
-Y10LPD- ST Sta. 18+45.88
-Y10- PT Sta. 49+66.56
-Y10RPD- POT Sta. 32+65.07
-Y10- POT Sta. 28+63.33
-Y10RPD- ST Sta. 30+40.07
-Y10RPD- CS Sta. 28+27.07
-Y10RPD- SC Sta. 26+18.34
-Y10RPD- TS Sta. 24+65.34
-DR5- PC Sta. 10+26.53
-DR5- POT Sta. 10+00.00
-DR5- PT Sta. 10+49.49
-L- POC Sta. 455+21.99
-Y10- POT Sta. 10+78.65
-DR5- POT Sta. 12+17.86
-Y10- POT Sta. 13+95.66
-Y10- PT Sta. 14+12.44
-Y10- PC Sta. 13+26.73
-Y10- PT Sta. 12+95.52
-Y10RPD- ST Sta. 12+40.00
-Y11- PC Sta. 24+07.02
-Y11- PT Sta. 23+16.14
-Y11- PC Sta. 23+06.89
-Y11- PT Sta. 21+48.85
-Y11- PC Sta. 23+11.21
-Y12-
PI Sta 41+00.00
Δ = 15°00'00" (RT)
D = 2°00'00"
L = 749.77'
T = 375.00'
R = 5730.00'
SE = 0.0'
RO = SEE PLANS
SEE SHEETS 45, 46 & 47 FOR -L- PROFILE
SEE SHEETS 69 & 70 FOR -Y10- PROFILE
SEE SHEET 71 FOR -Y10LPB- PROFILE
SEE SHEET 71 FOR -Y10LPD- PROFILE
SEE SHEET 72 FOR -Y10RPB- PROFILE
SEE SHEET 73 FOR -Y10RPD- PROFILE
SEE SHEET 75 FOR -Y12- PROFILE
SEE SHEET 75 FOR -Y13- PROFILE
SEE SHEET 77 FOR -DR5- PROFILE
SEE SHEETS 2-L & 2-P FOR BRIDGE/PAVEMENT SKETCH
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
GRAPHIC SCALE
50 25 0 50 100
PLANS
LOCATION:
TIP NO.:
COUNTY:
DESIGNED BY:
CHECKED BY:
DATE:

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



-L-

PIs Sta 452+54.26	PI Sta 460+83.12	PIs Sta 468+74.42
Θs = 4° 12' 34.1"	Δ = 32° 16' 36.3" (LT)	Θs = 4° 12' 34.1"
Ls = 360.00'	D = 2° 20' 19.0"	Ls = 360.00'
LT = 240.07'	L = 1,380.17'	LT = 240.07'
ST = 120.06'	T = 708.93'	ST = 120.06'
	R = 2,450.00'	
	SE = 08	
	RO = 360	

SEE SHEET 47 FOR -L- PROFILE
ALL DRIVEWAY RADII ARE 10'
UNLESS OTHERWISE NOTED

REVISIONS

8/17/99

23-AUG-2013 10:01
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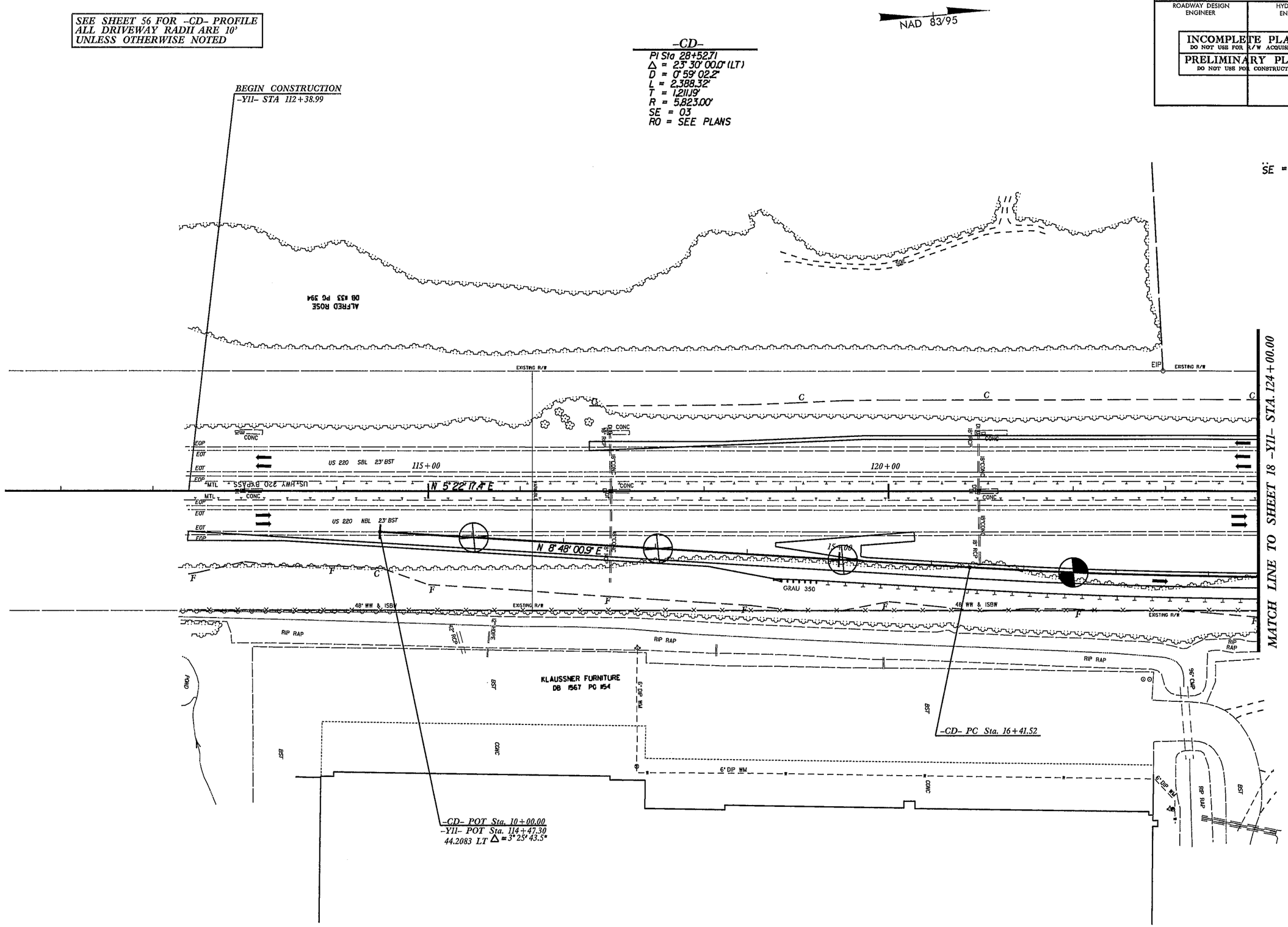
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



REVISIONS

8/17/99

29-AUG-2013 10:01
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PROJECT REFERENCE NO.	SHEET NO.
R-2536B	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SEE SHEET 52 FOR -RPD- PROFILE
SEE SHEET 55 FOR -FLYA- PROFILE
SEE SHEET 56 FOR -CD- PROFILE
SEE SHEET 61 FOR -Y5- PROFILE
SEE SHEET 2-N FOR BRIDGE/PAVEMENT SKETCH
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED

-Y5-
PI Sta 25+82.18
Δ = 33° 03' 42.2" (LT)
D = 4° 18' 28.6"
L = 767.46'
T = 394.74'
R = 1,330.00'
SE = 06
RO = 160

-Y11-
PI Sta 134+49.96
Δ = 20° 04' 16.4" (LT)
D = 0° 59' 59.7"
L = 2,007.27'
T = 1,014.03'
R = 5,730.00'
SE = EXIST.

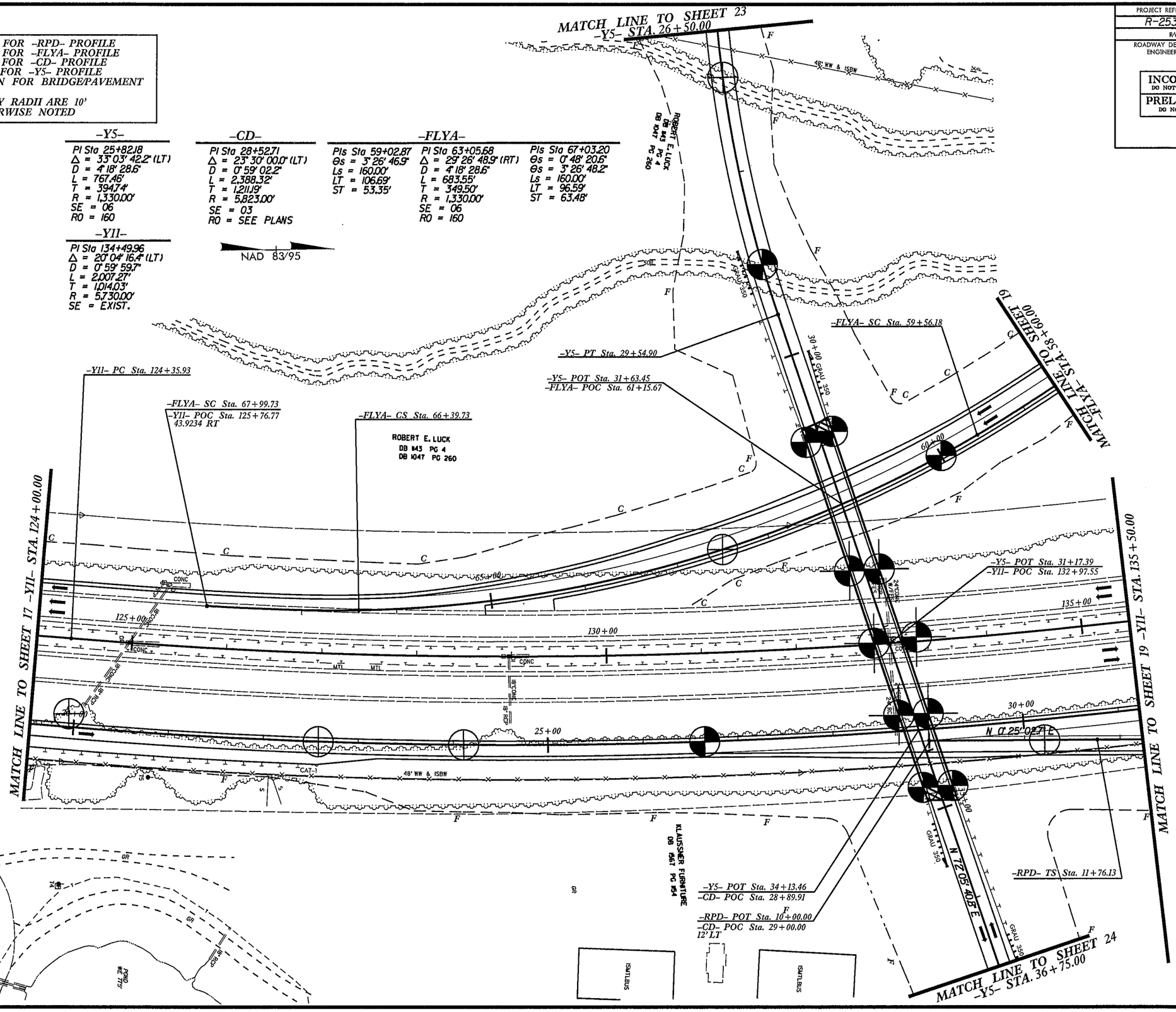
-CD-
PI Sta 28+52.71
Δ = 23° 30' 00.0" (LT)
D = 0° 59' 02.2"
L = 2,388.32'
T = 1,211.19'
R = 5,823.00'
SE = 03
RO = SEE PLANS

-FLYA-
PIs Sta 59+02.87
θs = 3° 26' 46.9"
Ls = 160.00'
LT = 106.69'
ST = 53.35'

PI Sta 63+05.68
Δ = 29° 26' 48.9" (RT)
D = 4° 18' 28.6"
L = 683.55'
T = 349.50'
R = 1,330.00'
SE = 06
RO = 160

PIs Sta 67+03.20
θs = 0° 48' 20.6"
θs = 3° 26' 48.2"
Ls = 160.00'
LT = 96.59'
ST = 63.48'

NAD 83/95



REVISIONS

8/17/99

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rogerohne ATP DR/71373B

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SEE SHEET 52 FOR -RPD- PROFILE
SEE SHEET 52 FOR -RPC- PROFILE
SEE SHEET 55 FOR -FLYA- PROFILE
SEE SHEETS 56 & 57 FOR -CD- PROFILE
ALL DRIVEWAY RADII ARE 10'
UNLESS OTHERWISE NOTED

-CD-

PI Sta 28+52.71
Δ = 23° 30' 00.0" (LT)
D = 0° 59' 02.2"
L = 2,388.32'
T = 1,211.19'
R = 5,823.00'
SE = 03
RO = SEE PLANS

-RPC-

PIs Sta 11+24.57
Θs = 1° 58' 32.6"
Ls = 160.00'
LT = 106.67'
ST = 53.34'

PI Sta 22+27.75
Δ = 48° 41' 43.8" (RT)
D = 2° 28' 10.7"
L = 1,971.76'
T = 1,049.85'
R = 2,320.00'
SE = 06
RO = 160

PIs Sta 32+03.00
Θs = 1° 58' 32.6"
Ls = 160.00'
LT = 106.67'
ST = 53.34'

-RPD-

PIs Sta 13+63.09
Θs = 10° 01' 36.3"
Ls = 280.00'
LT = 186.97'
ST = 93.61'

PI Sta 17+98.34
Δ = 46° 19' 07.4" (RT)
D = 7° 09' 43.1"
L = 646.73'
T = 342.21'
R = 800.00'
SE = 03
RO = SEE PLANS

-Y11-

PI Sta 134+49.96
Δ = 20° 04' 16.4" (LT)
D = 0° 59' 59.7"
L = 2,007.27'
T = 1,014.03'
R = 5,730.00'
SE = EXIST.

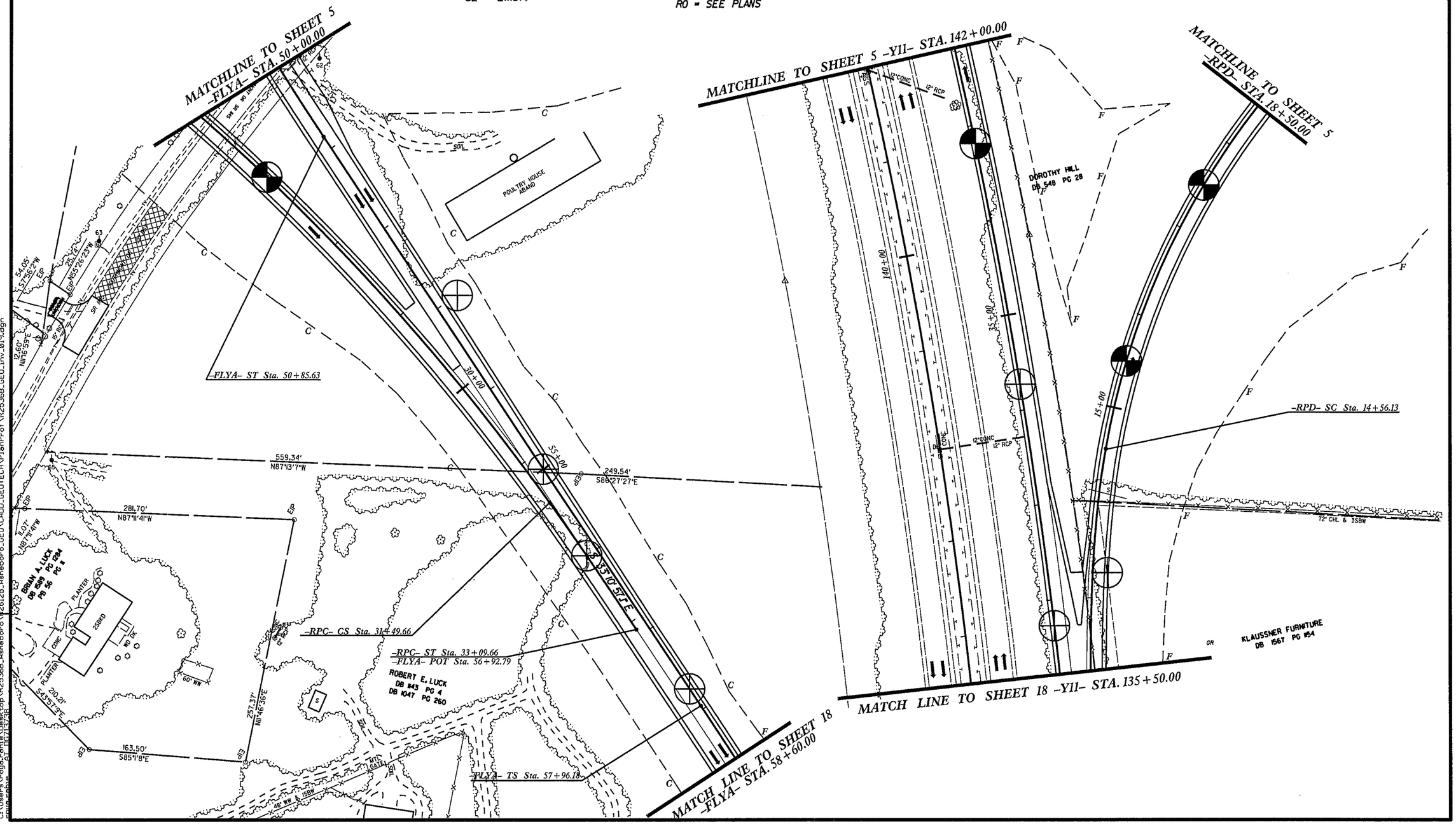
-FLYA-

PIs Sta 59+02.87
Θs = 3° 26' 46.9"
Ls = 160.00'
LT = 106.69'
ST = 53.35'

PI Sta 63+05.68
Δ = 29° 26' 48.9" (RT)
D = 4° 18' 28.6"
L = 683.55'
T = 349.50'
R = 1,330.00'
SE = 06
RO = SEE PLANS

PIs Sta 67+03.20
Θs = 0° 48' 20.6"
Ls = 160.00'
LT = 96.59'
ST = 63.48'

NAD 83/95



REVISIONS

8/17/99

23-AUG-2013 10:01
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PROJECT REFERENCE NO.	SHEET NO.
R-2536B	20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SEE SHEETS 49 & 50 FOR -RPA- PROFILE
SEE SHEET 51 FOR -RPB- PROFILE
SEE SHEET 57 FOR -CD- PROFILE
SEE SHEETS 58 & 59 FOR -YI- PROFILE
ALL DRIVEWAY RADII ARE 10'
UNLESS OTHERWISE NOTED

-RPB-

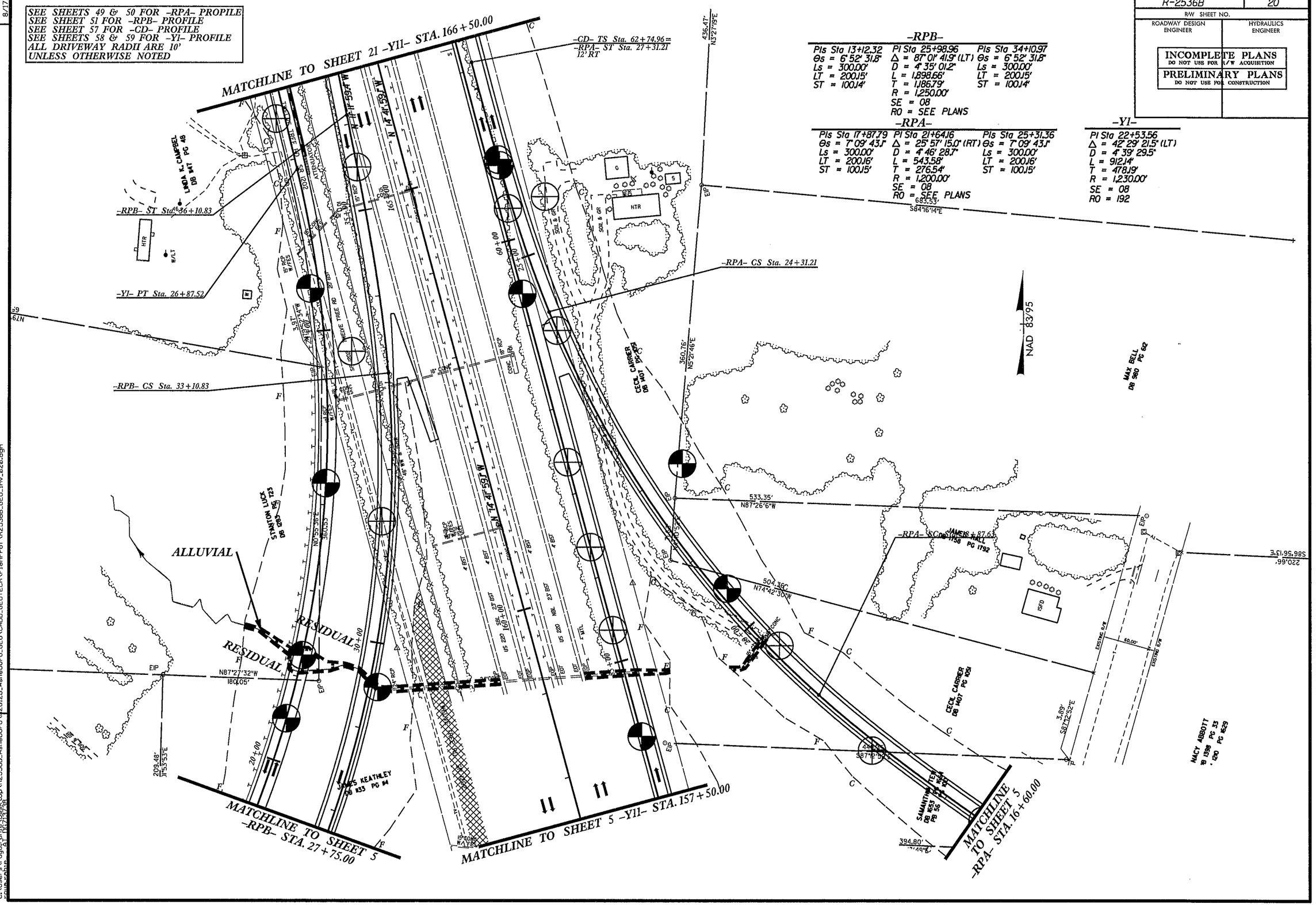
PIs Sta 13+12.32	PI Sta 25+98.96	PIs Sta 34+10.97
Θs = 6° 52' 31.8"	Δ = 87° 01' 41.9" (LT)	Θs = 6° 52' 31.8"
Ls = 300.00'	D = 4° 35' 01.2"	Ls = 300.00'
LT = 200.15'	L = 1,898.66'	LT = 200.15'
ST = 100.14'	T = 1,186.79'	ST = 100.14'
	R = 1,250.00'	
	SE = 08	
	RO = SEE PLANS	

-RPA-

PIs Sta 17+87.79	PI Sta 21+64.16	PIs Sta 25+31.36
Θs = 7° 09' 43.1"	Δ = 25° 57' 15.0" (RT)	Θs = 7° 09' 43.1"
Ls = 300.00'	D = 4° 46' 28.7"	Ls = 300.00'
LT = 200.16'	L = 543.58'	LT = 200.16'
ST = 100.15'	T = 276.54'	ST = 100.15'
	R = 1,200.00'	
	SE = 08	
	RO = SEE PLANS	

-YI-

PI Sta 22+53.56
Δ = 42° 29' 21.5" (LT)
D = 4° 39' 29.5"
L = 912.14'
T = 478.19'
R = 1,230.00'
SE = 08
RO = 192



REVISIONS

8/17/99

29-AUG-2013 10:01
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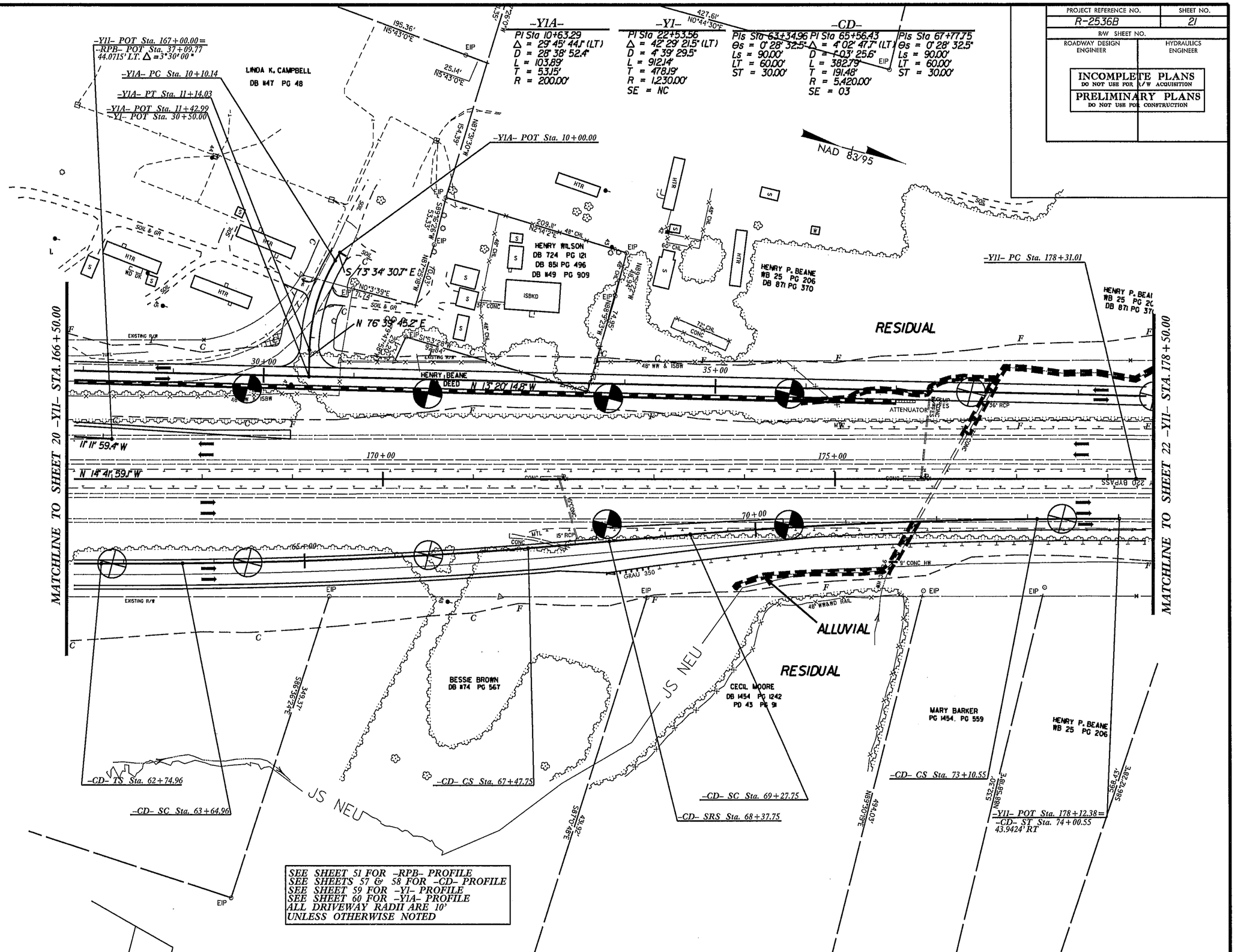
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



REVISIONS

8/17/99

29-AUG-2013 10:01
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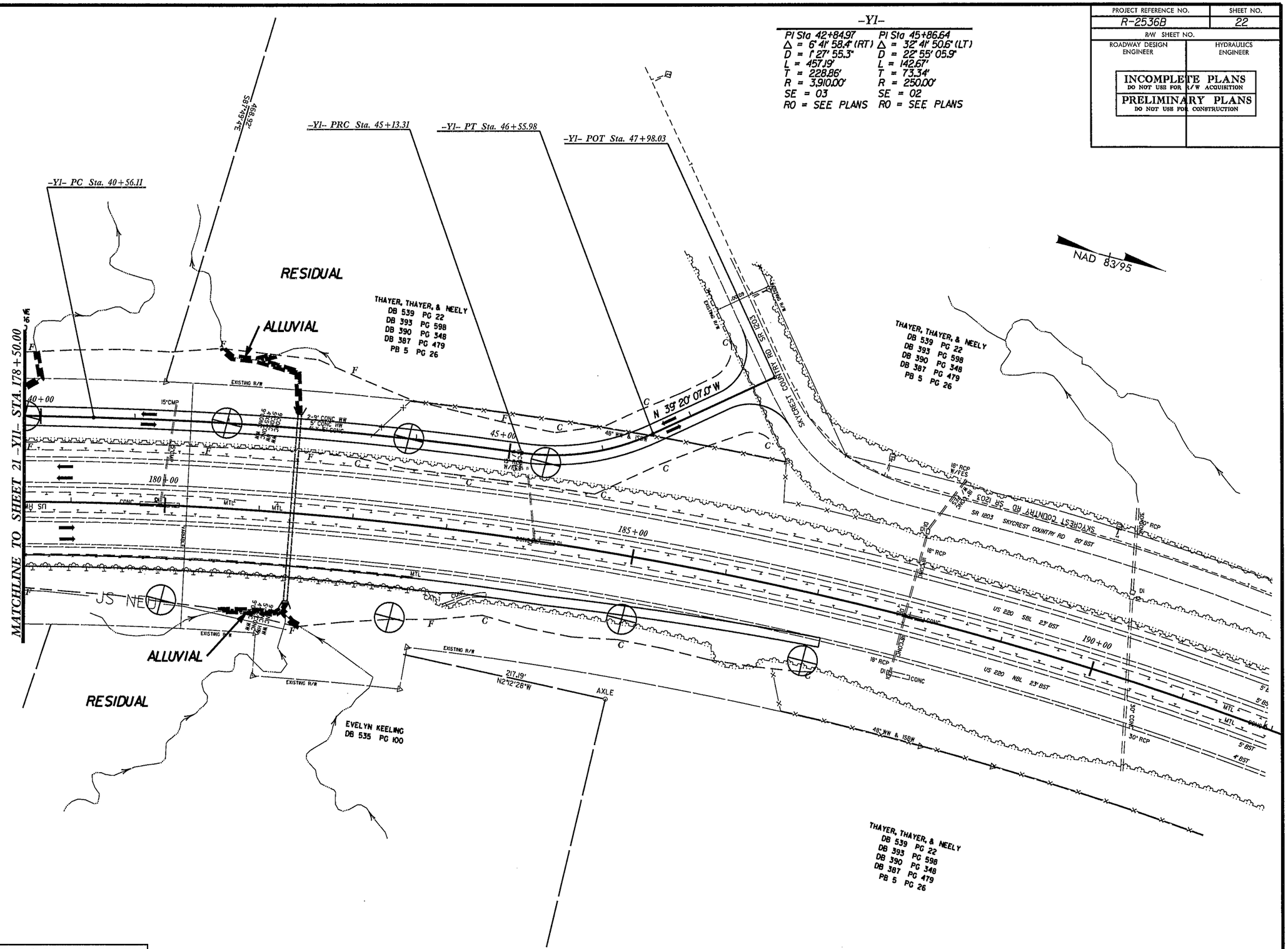
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



SEE SHEET 59 FOR -Y1- PROFILE
ALL DRIVEWAY RADII ARE 10'
UNLESS OTHERWISE NOTED

REVISIONS

8/17/99

29-AUG-2013 10:01
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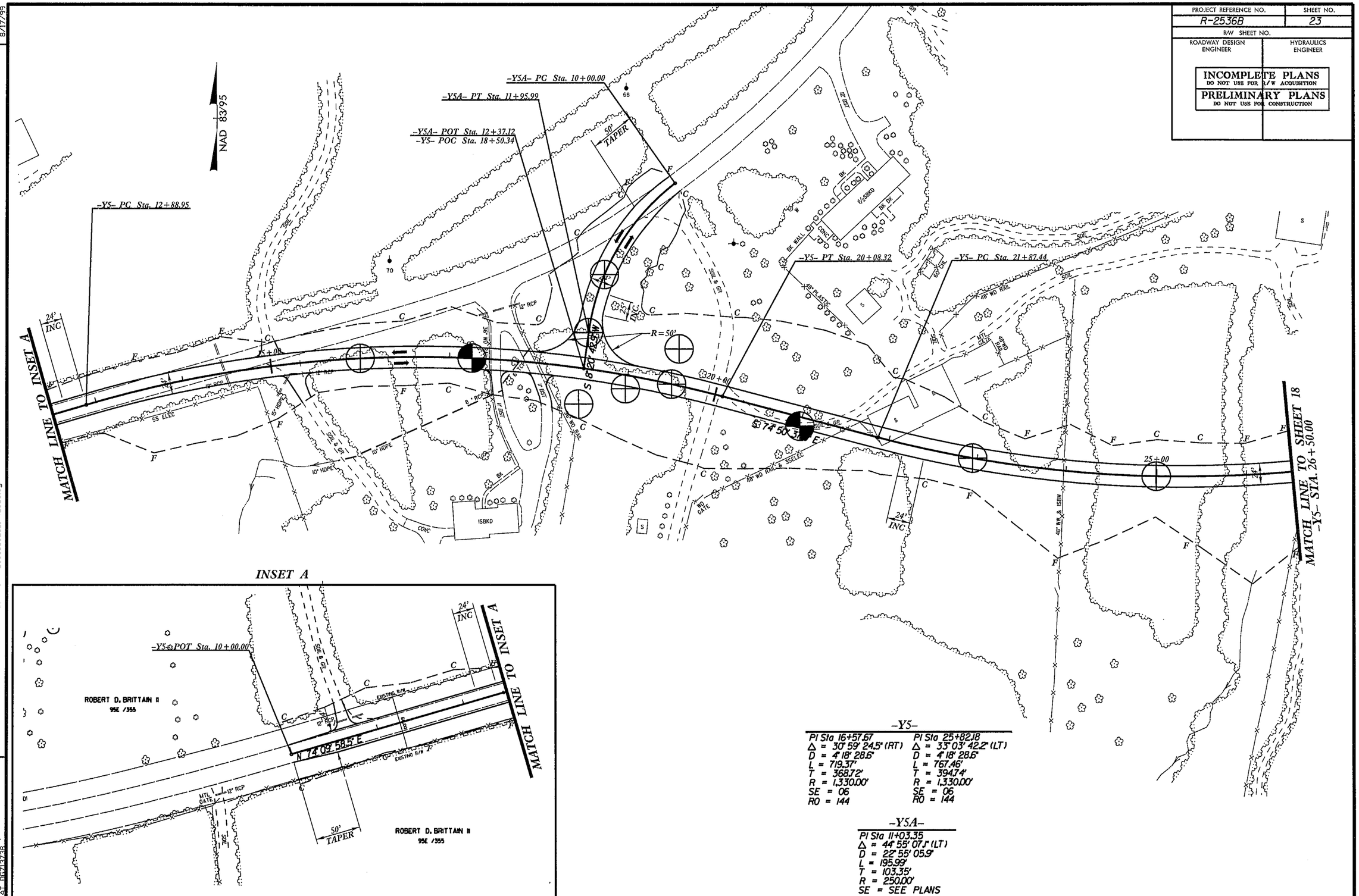
pugachase

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



-Y5-

PI Sta 16+57.67	PI Sta 25+82.18
Δ = 30° 59' 24.5" (RT)	Δ = 33° 03' 42.2" (LT)
D = 4° 18' 28.6"	D = 4° 18' 28.6"
L = 719.37'	L = 767.46'
T = 368.72'	T = 394.74'
R = 1,330.00'	R = 1,330.00'
SE = 06	SE = 06
RO = 144	RO = 144

-Y5A-

PI Sta 11+03.35
Δ = 44° 55' 07.1" (LT)
D = 22° 55' 05.9"
L = 195.99'
T = 103.35'
R = 250.00'
SE = SEE PLANS

REVISIONS

8/17/99

29-AUG-2013 10:01
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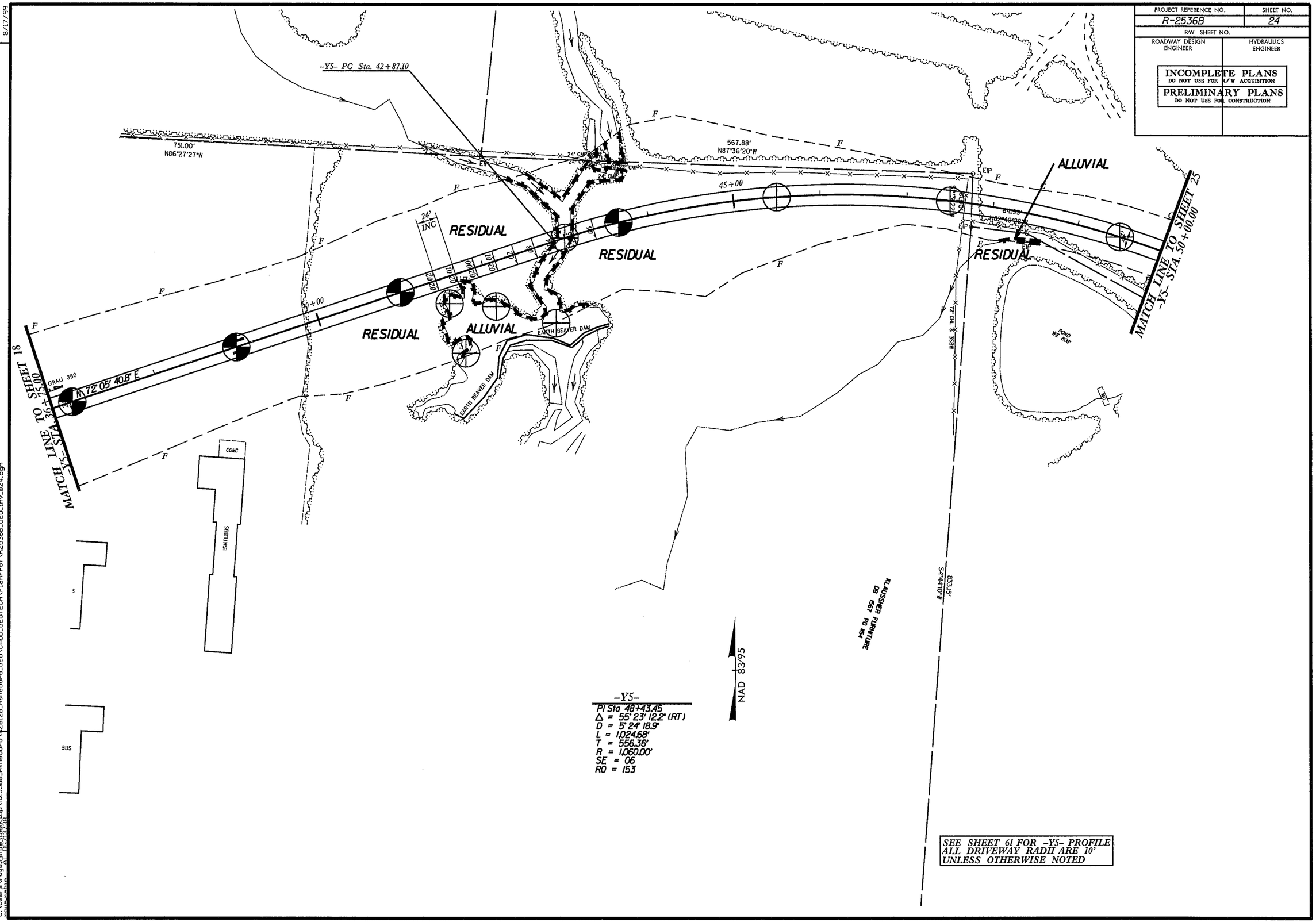
rogerohne at 11/13/38

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



SEE SHEET 61 FOR -Y5- PROFILE
ALL DRIVEWAY RADII ARE 10'
UNLESS OTHERWISE NOTED

REVISIONS

8/17/99

28-AUG-2013 10:01
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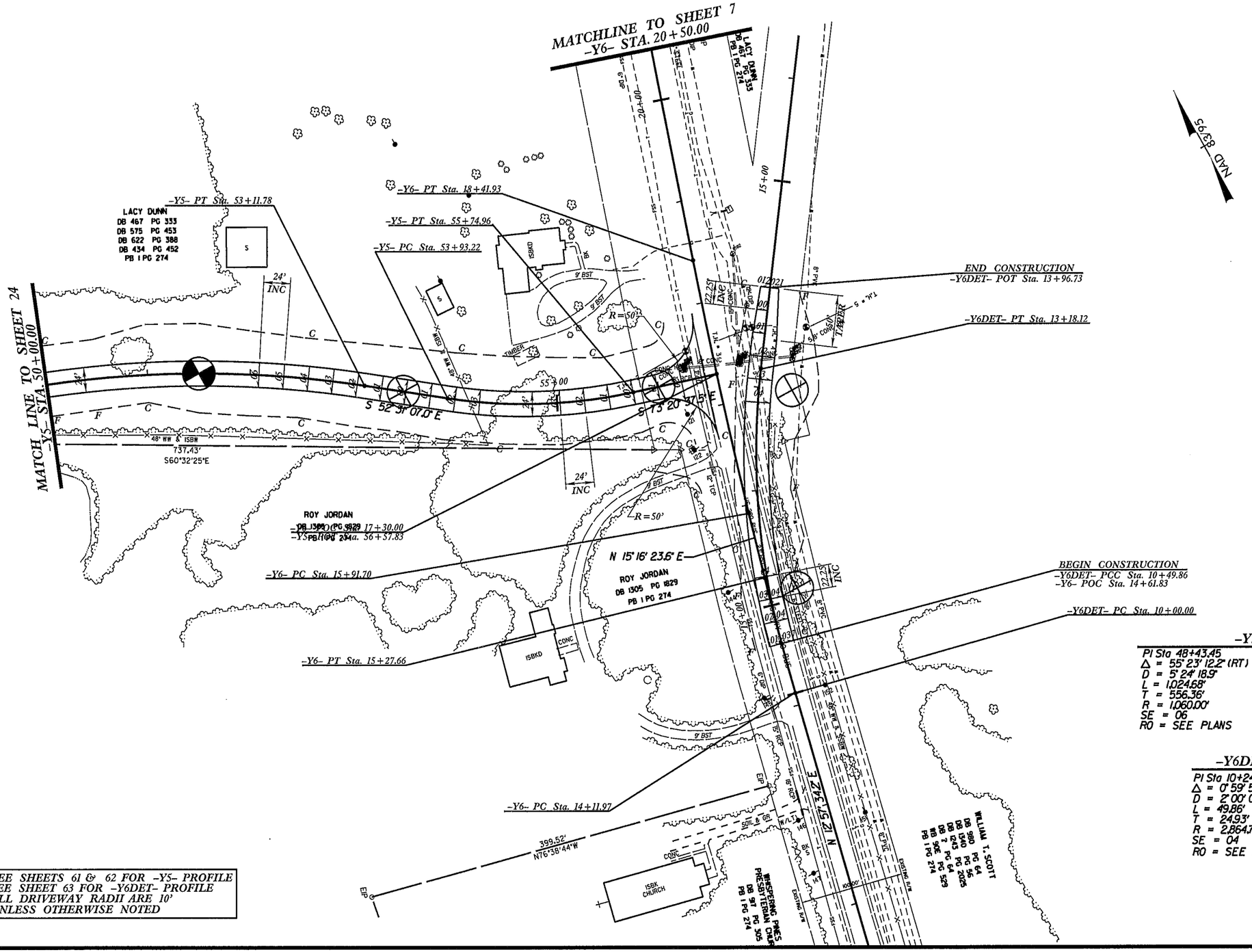
rouschpe

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	25
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



-Y5-

PI Sta 48+43.45	PI Sta 54+85.10
Δ = 55° 23' 12.2" (RT)	Δ = 20° 49' 30.5" (LT)
D = 5° 24' 18.9"	D = 11° 27' 33.0"
L = 1,024.68'	L = 181.73'
T = 556.36'	T = 91.88'
R = 1,060.00'	R = 500.00'
SE = 06	SE = 03
RO = SEE PLANS	RO = SEE PLANS

-Y6DET-

PI Sta 10+24.93
Δ = 0° 59' 50.2" (RT)
D = 2° 00' 00.0"
L = 49.86'
T = 24.93'
R = 2,864.79'
SE = 04
RO = SEE PLANS

REVISIONS

8/17/99

29-AUG-2013 10:01
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pwworkspace AT R2713738

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SEE SHEET 64 FOR -Y7- PROFILE
SEE SHEET 76 FOR -DR2- PROFILE
ALL DRIVEWAY RADII ARE 10'
UNLESS OTHERWISE NOTED

-Y7-
PI Sta 12+15.99
Δ = 16° 12' 50.3" (LT)
D = 5° 24' 18.9"
L = 299.97'
T = 150.99'
R = 1,060.00'
SE = 06
RO = SEE PLANS

-DR2-
PI Sta 10+62.21
Δ = 61° 39' 37.4" (LT)
D = 114° 35' 29.6"
L = 53.81'
T = 29.84'
R = 50.00'
SE = SEE PLANS
RO = SEE PLANS

-Y7- POT Sta. 10+00.00
-Y7- PC Sta. 10+65.00
-Y7- PT Sta. 13+64.97
-DR2- POT Sta. 10+00.00
-Y7- POC Sta. 12+26.14
-DR2- PC Sta. 10+32.37
-DR2- PT Sta. 10+86.18

NAD 83/95

MATCHLINE TO SHEET 9 -Y7- STA. 14+75.00

SEPTIC DRAINAGE FIELD

S 69° 17' 30.8" E
S 25° 04.5" E

REVISIONS

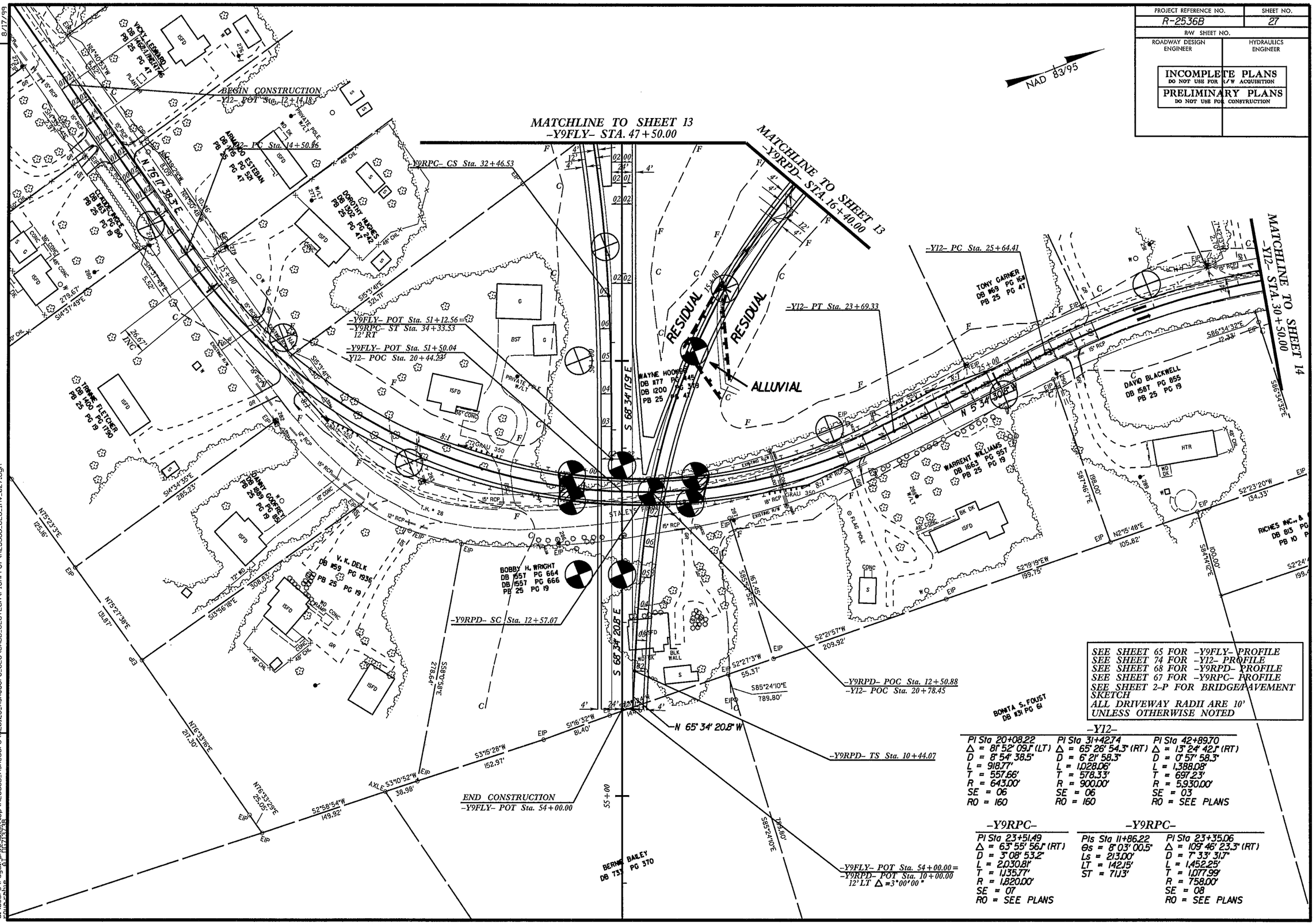
8/17/99

28-AUG-2013 10:01
C:\Users\rogucchie\Desktop\R2536B_Asheboro\R2612B_Asheboro_GEO\CADD_GEOTECH\PlanProf\R2536B_GEO_inv_026.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	27
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



REVISIONS

8/17/99

29-AUG-2013 10:01
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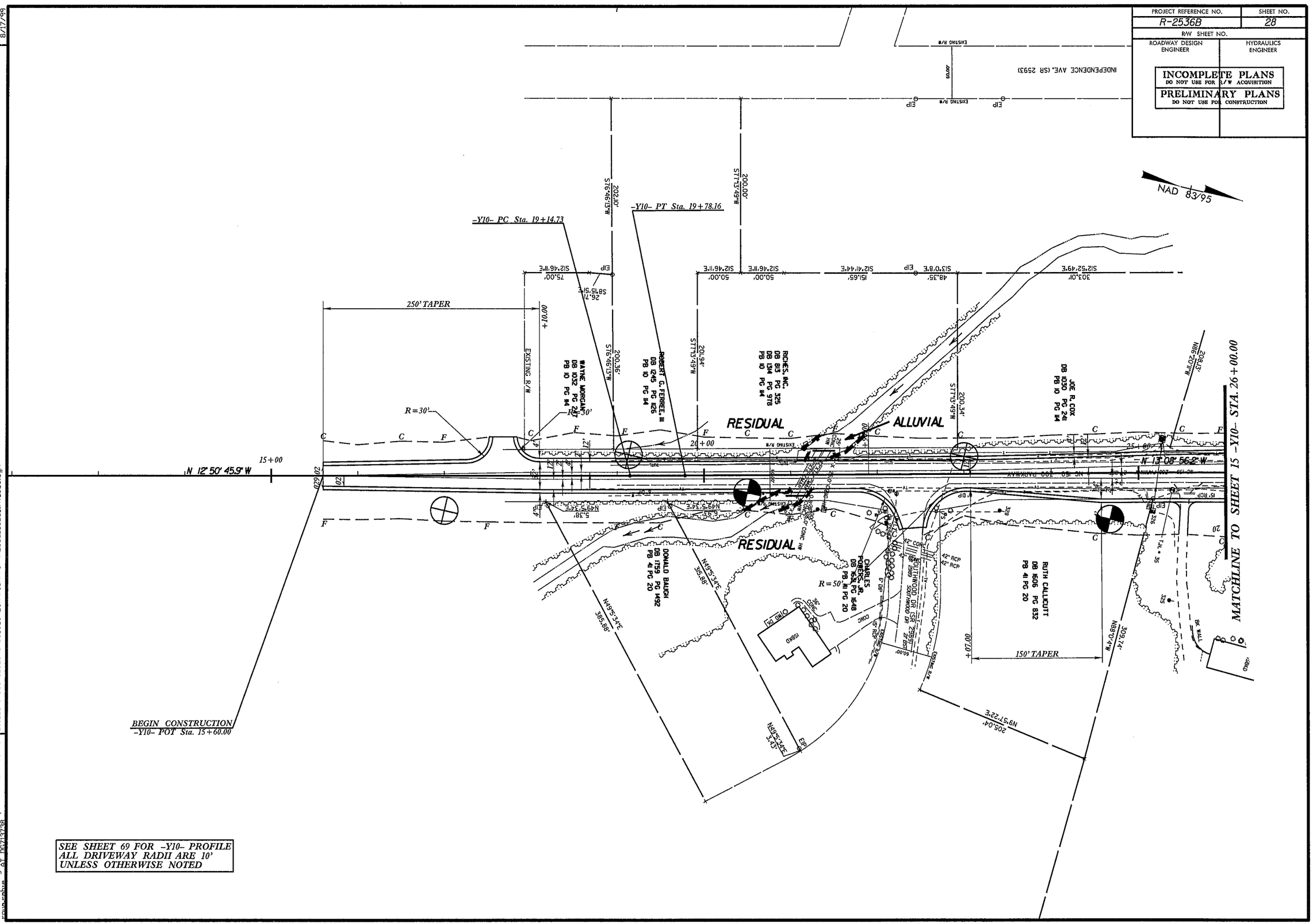
FOUR-Plane
AT R2/13238

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



REVISIONS

8/17/98

29-AUG-2013 10:02
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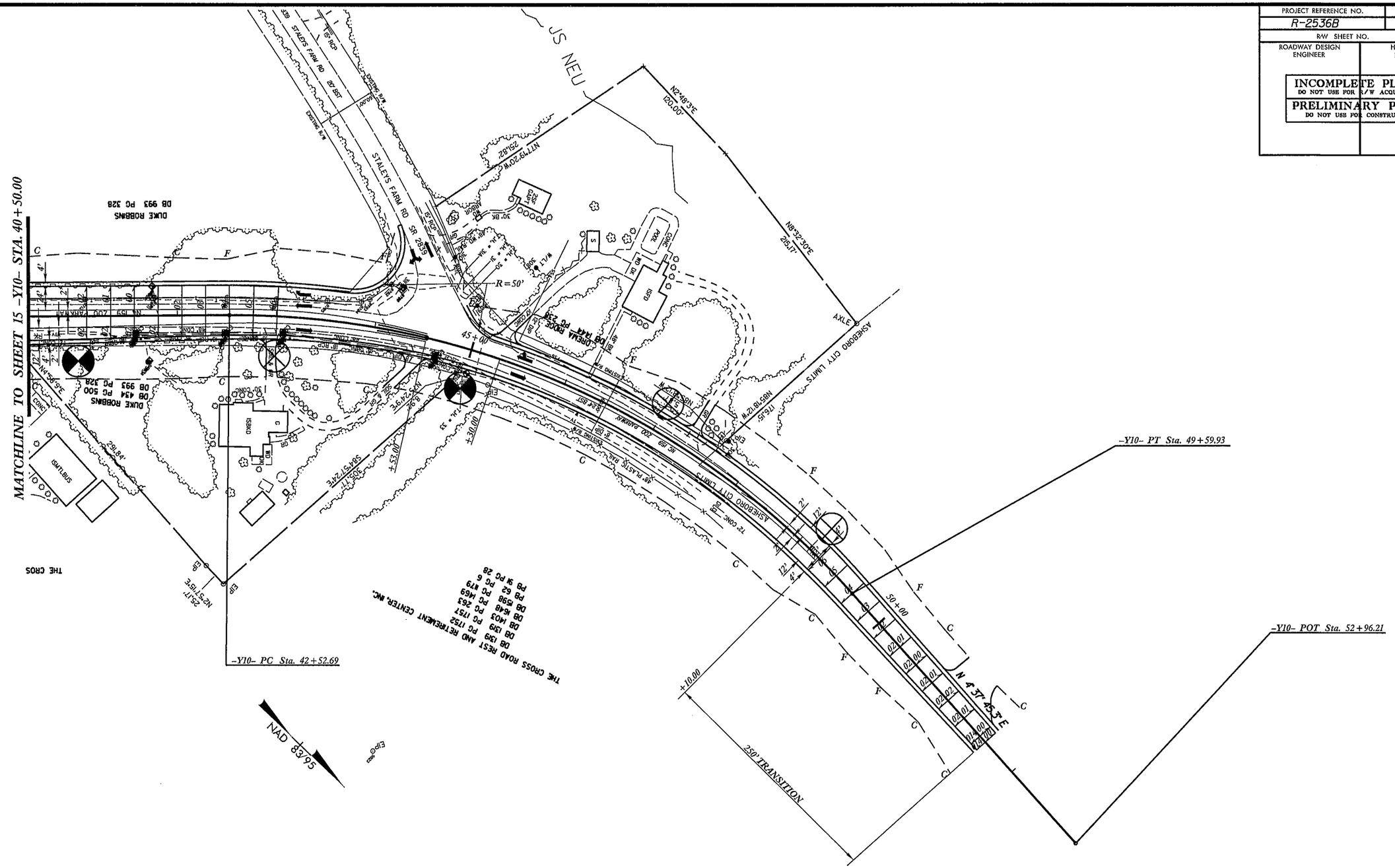
pwworkspace

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	29
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



-Y10-
PI Sta 46+29.21
Δ = 48° 38' 45.8" (RT)
D = 6° 52' 41.7"
L = 707.25'
T = 376.52'
R = 833.00'
SE = 06
RO = 144

REVISIONS

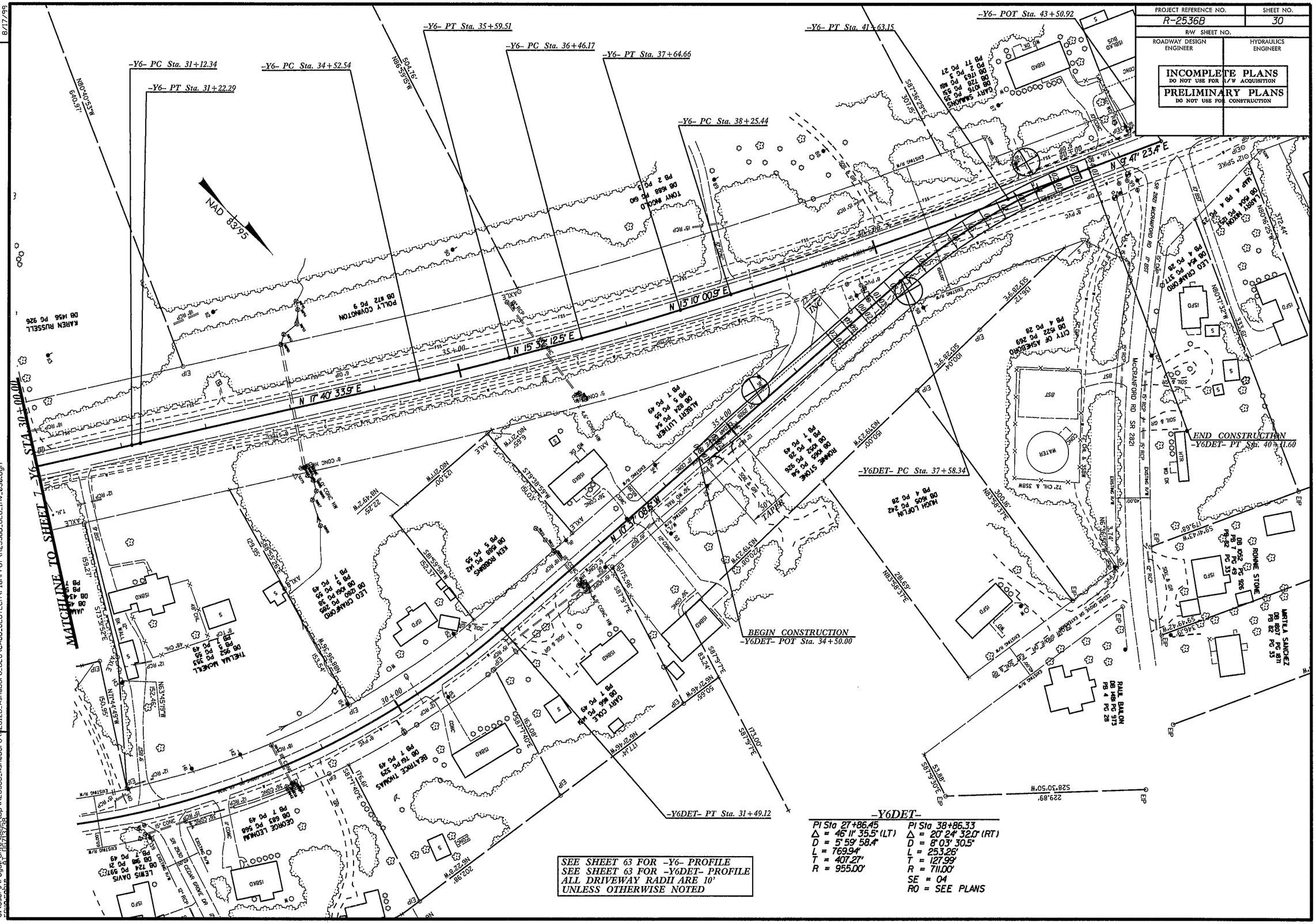
8/17/99

23-AUG-2013 10:02
C:\Users\rgalvarez\Desktop\R2536B_Asheboro\R2612B_Asheboro_GEO\CADD_GEOTECH\PlanProf\R2536B_GEO_inv_029.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	30
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



-Y6DET-

PI Sta 27+86.45	PI Sta 38+86.33
Δ = 46° 11' 35.5" (LT)	Δ = 20° 24' 32.0" (RT)
D = 5° 59' 58.4"	D = 8° 03' 30.5"
L = 769.94'	L = 253.26'
T = 407.27'	T = 127.99'
R = 955.00'	R = 711.00'
	SE = 04
	RO = SEE PLANS

REVISIONS

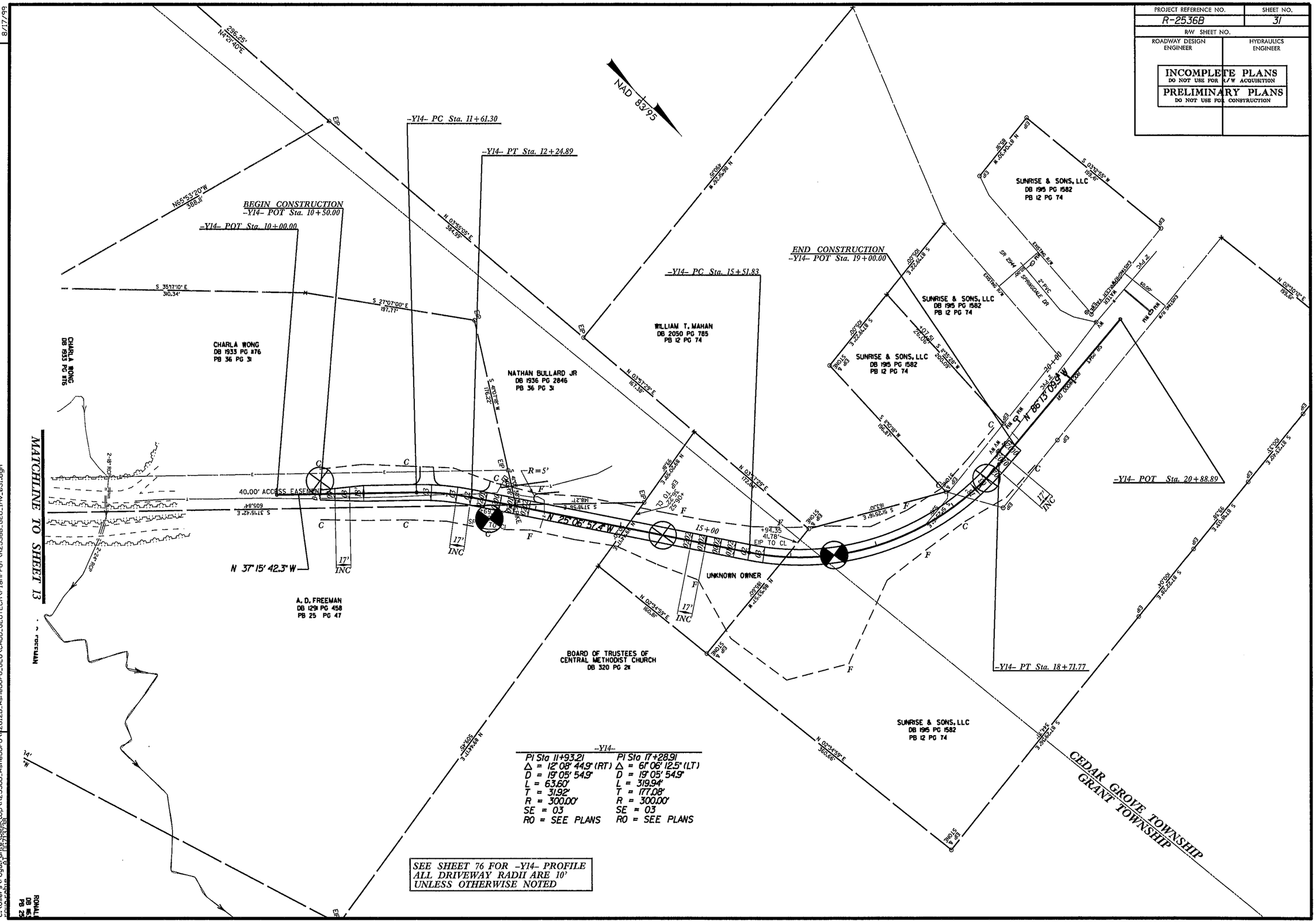
8/17/99

23-AUG-2013 10:02
c:\Users\sgoodwin\Desktop\R2536B_Asheboro\R2536B_Asheboro_GEOTECH\CADD_GEOTECH\PlanProf\R2536B_GEO_inv_030.dgn
PDWORKSPACE
1" = 20' PW:\pwinternal\

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	31
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

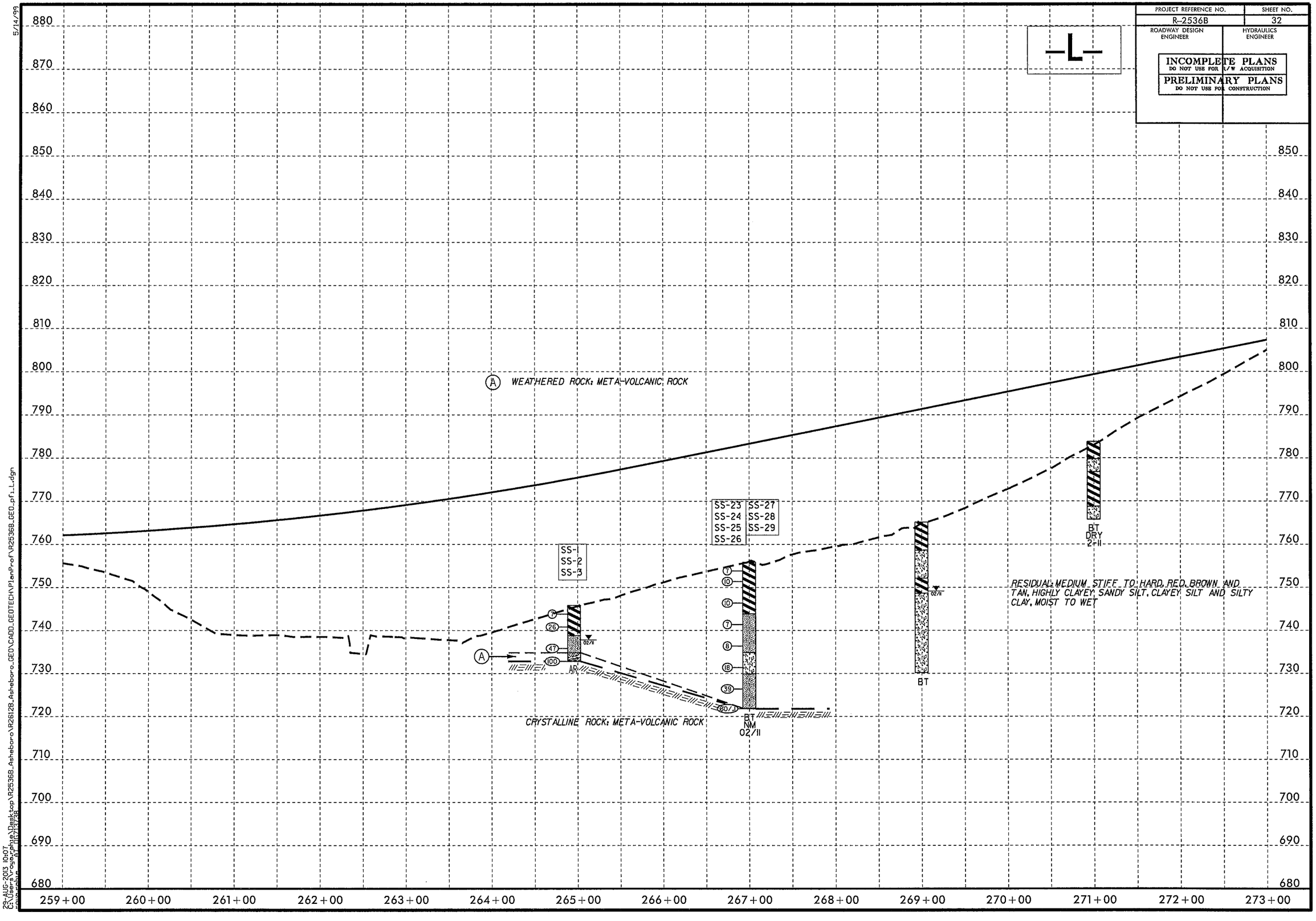

NAD 83/95
295.25' N42°21'40"E
N65°53'20"W 366.11'
BEGIN CONSTRUCTION
-Y14- POT Sta. 10+50.00
-Y14- POT Sta. 10+00.00
-Y14- PC Sta. 11+61.30
-Y14- PT Sta. 12+24.89
-Y14- PC Sta. 15+51.83
END CONSTRUCTION
-Y14- POT Sta. 19+00.00
-Y14- POT Sta. 20+88.89
-Y14- PT Sta. 18+71.77
N 03°55'05" E 398.69'
N 03°57'29" E 167.38'
N 03°57'29" E 172.24'
N 02°34'55" E 160.81'
N 02°34'55" E 360.68'
N 02°30'12" E 155.52'
S 35°17'10" E 360.34'
S 27°07'00" E 197.77'
S 40°01'18" W 176.22'
S 37°19'42" E 605.84'
S 37°19'56" E 148.27'
S 37°25'16" E 165.30'
S 37°25'16" E 324.11'
S 37°25'16" E 105.37'
S 37°25'16" E 350.58'
S 37°25'16" E 100.04'
S 37°25'16" E 350.58'
S 37°25'16" E 105.00'
S 37°25'16" E 105.00'
S 37°25'16" E 105.00

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	32
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



23-AUG-2013 10:07
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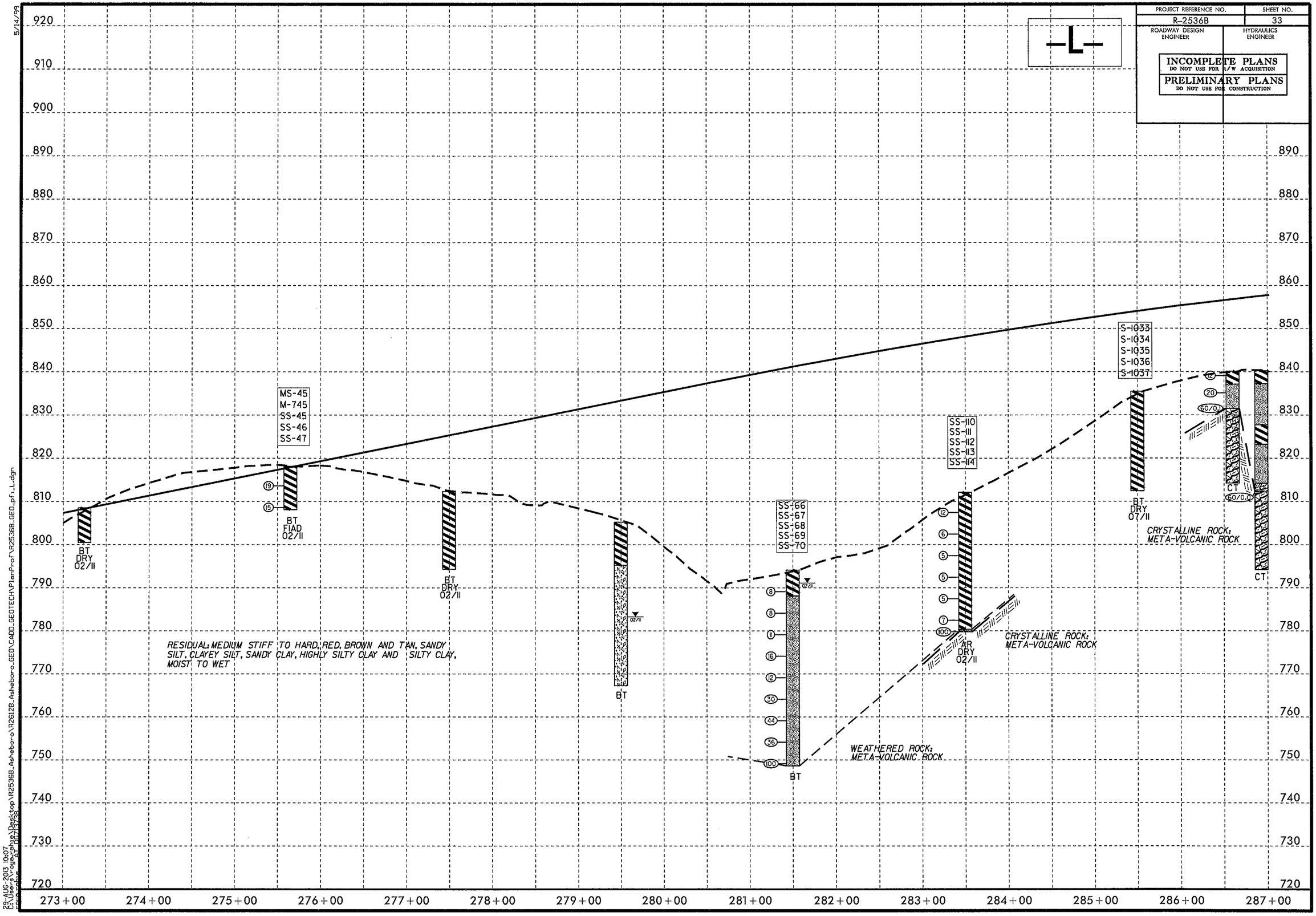
mwpphillips

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	33
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

23-AUG-2013 10:07
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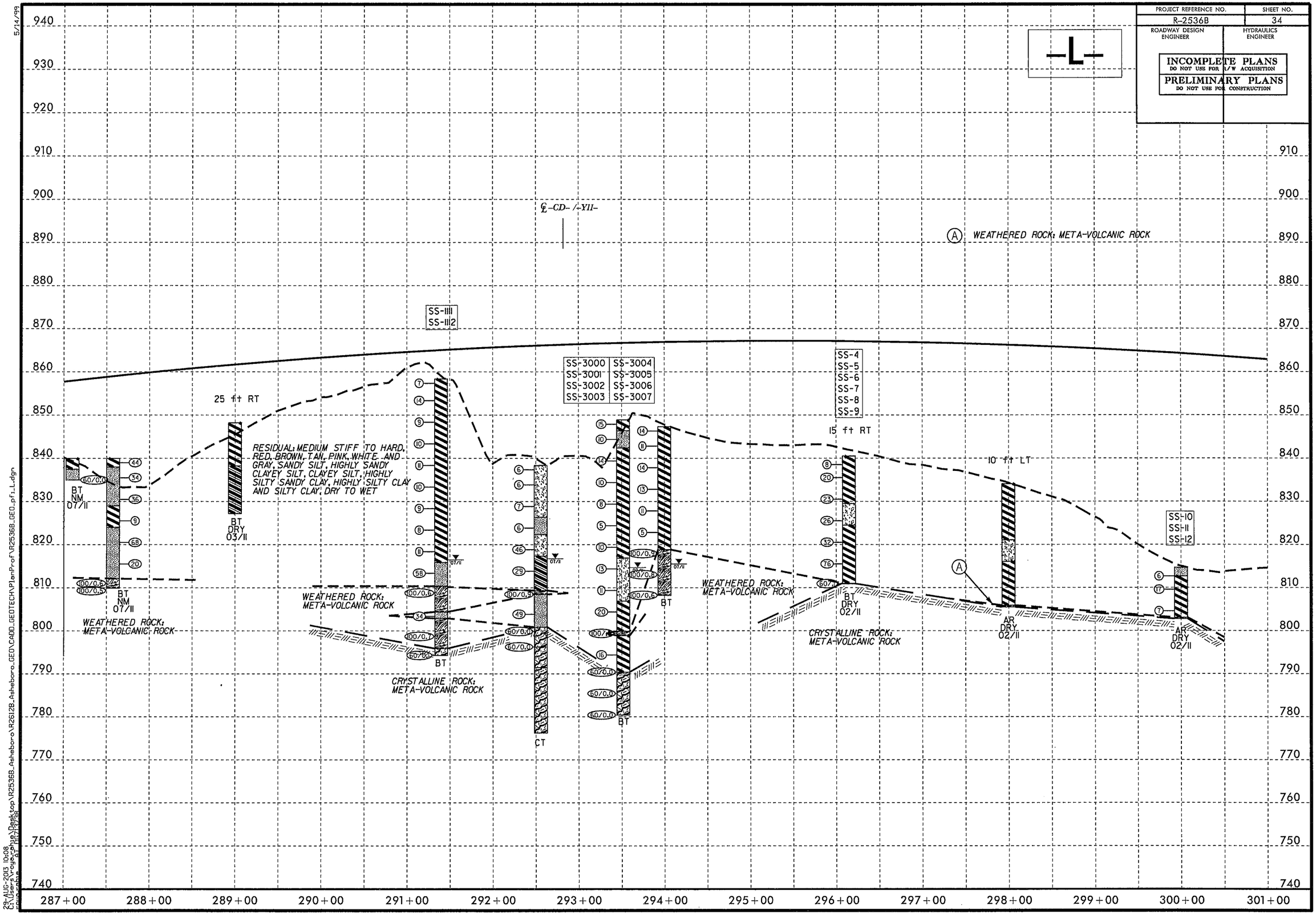
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	34
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

23-AUG-2013 10:08
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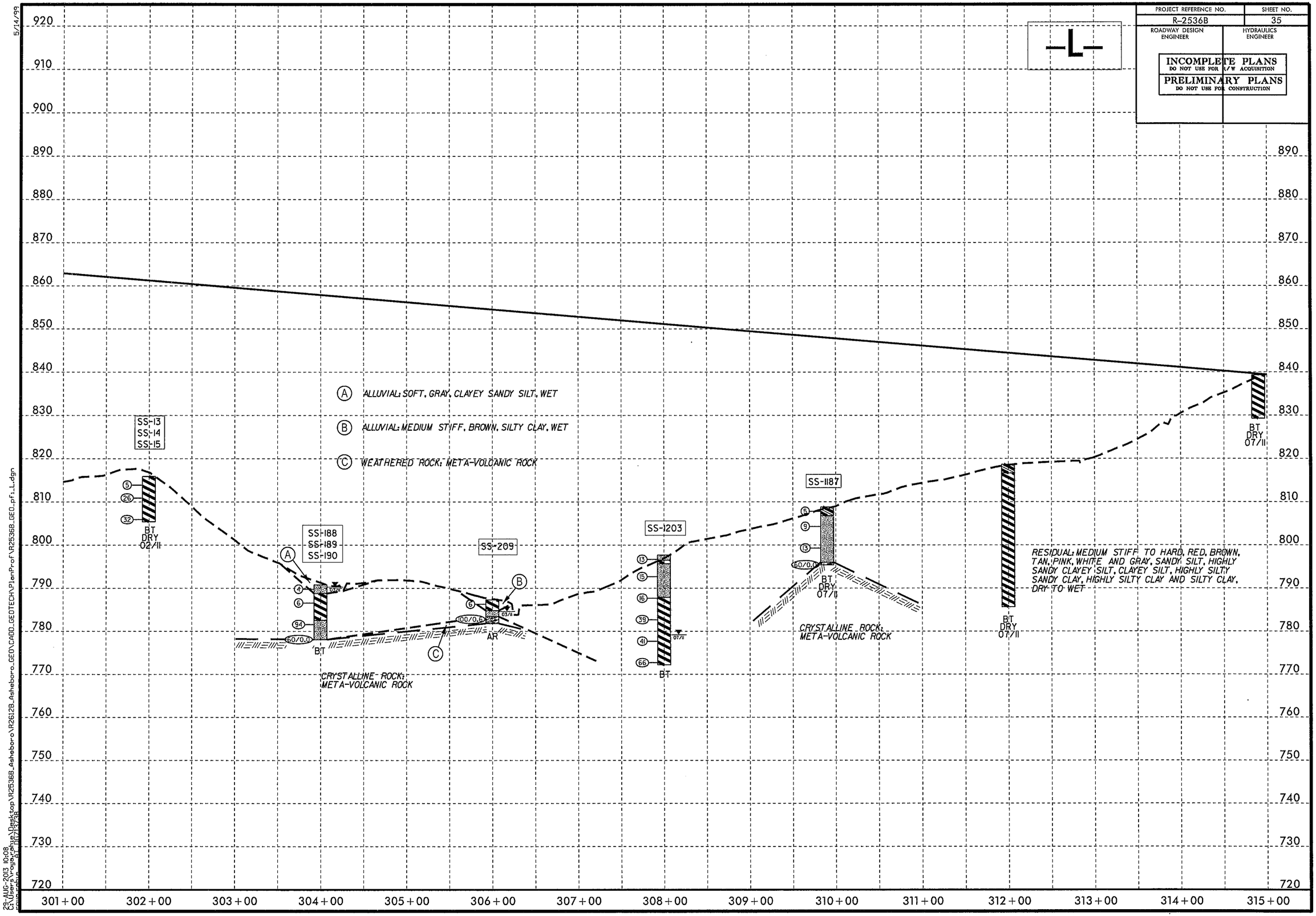
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	35
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

23-AUG-2013 10:08
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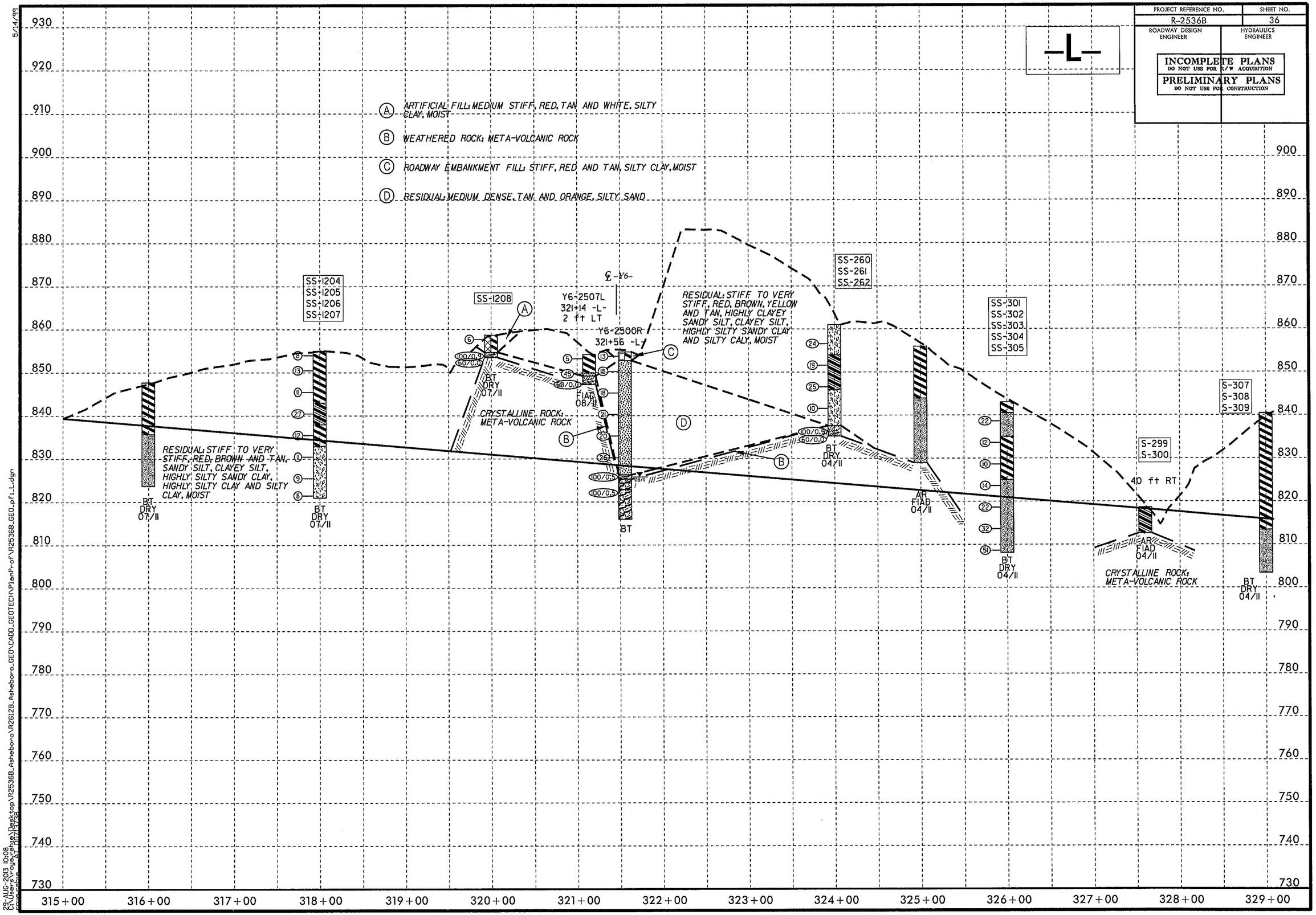
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	36
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

23-AUG-2013 10:08
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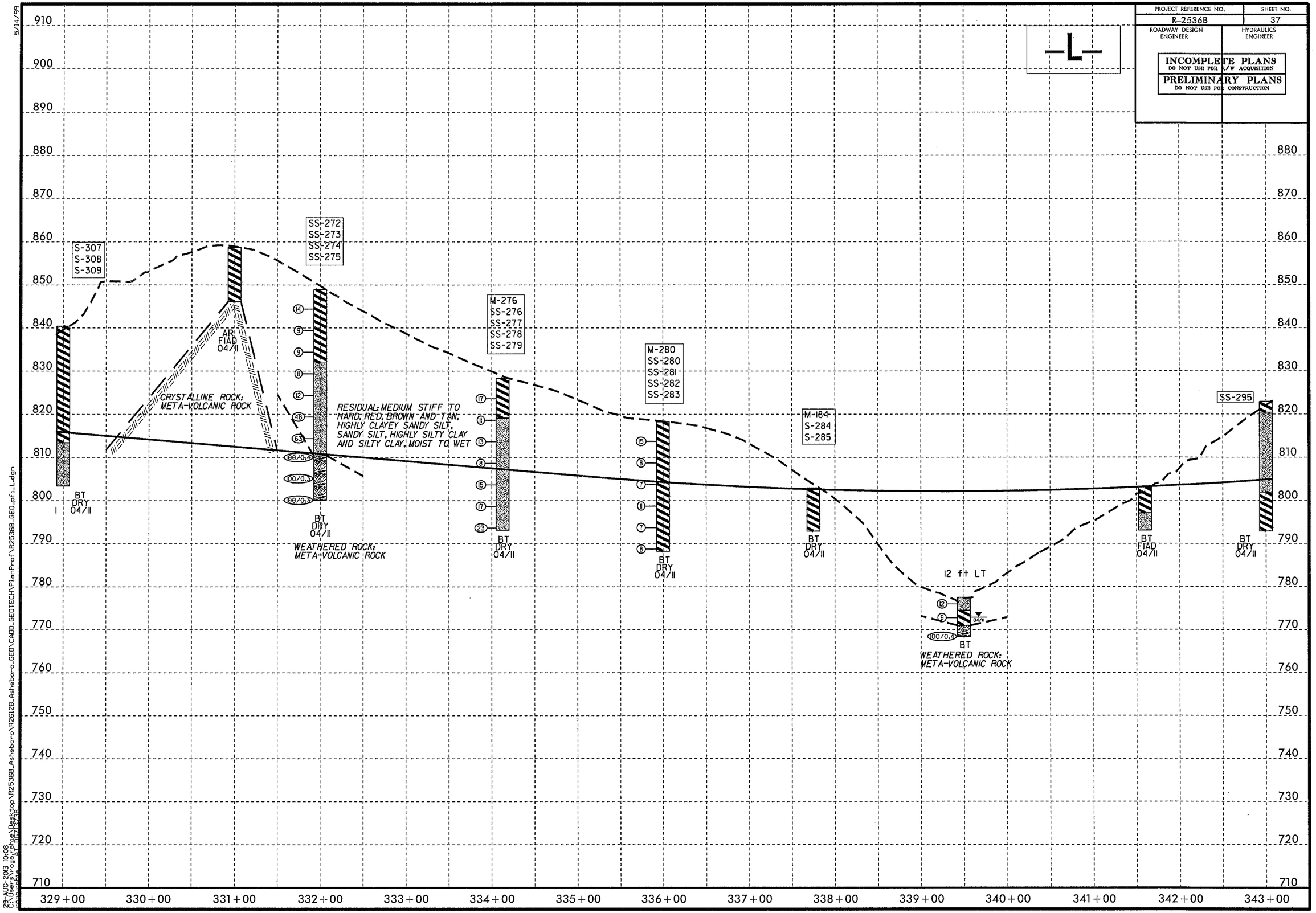
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	37
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

23-AUG-2013 10:08
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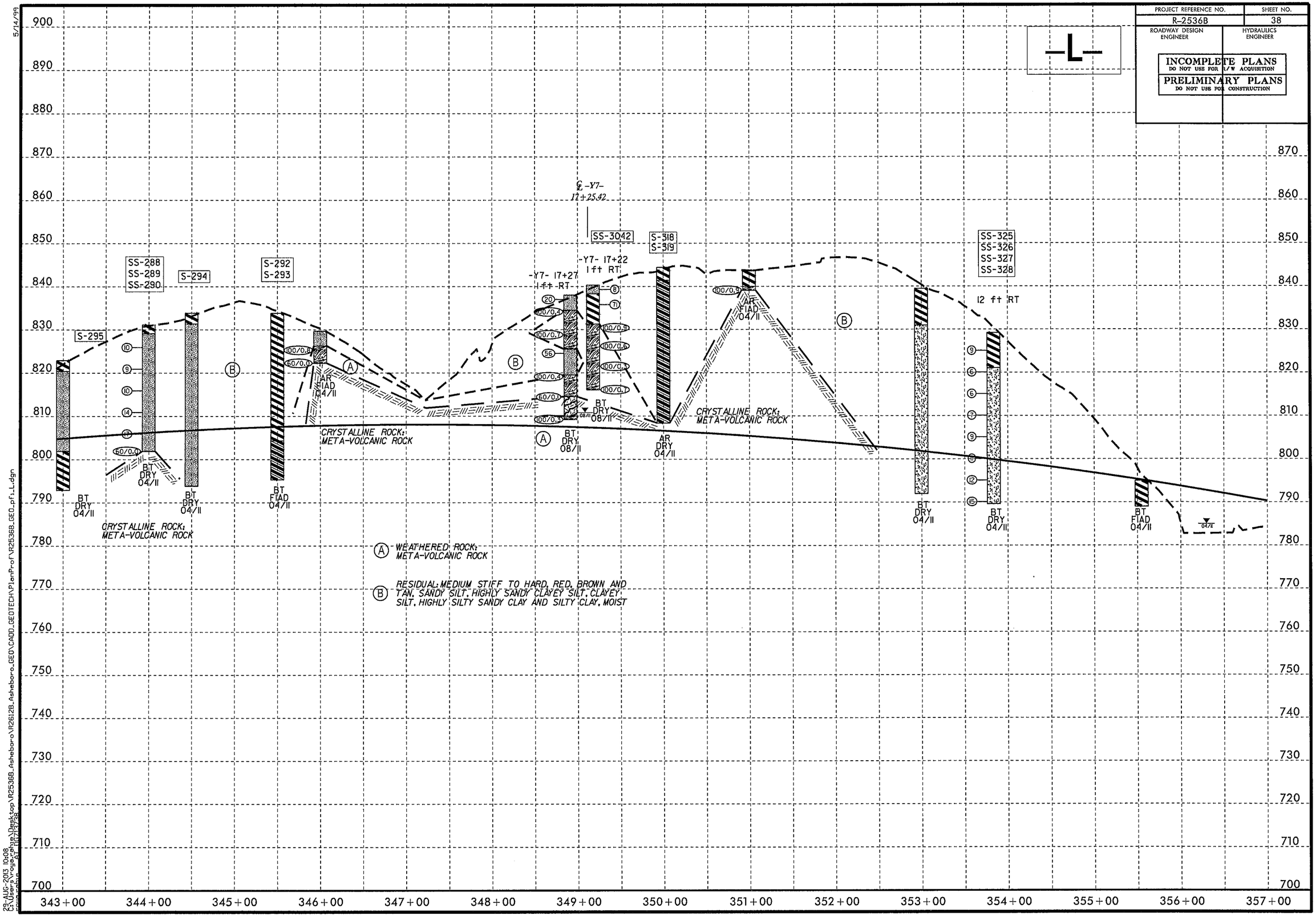
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	38
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

23-AUG-2013 10:08
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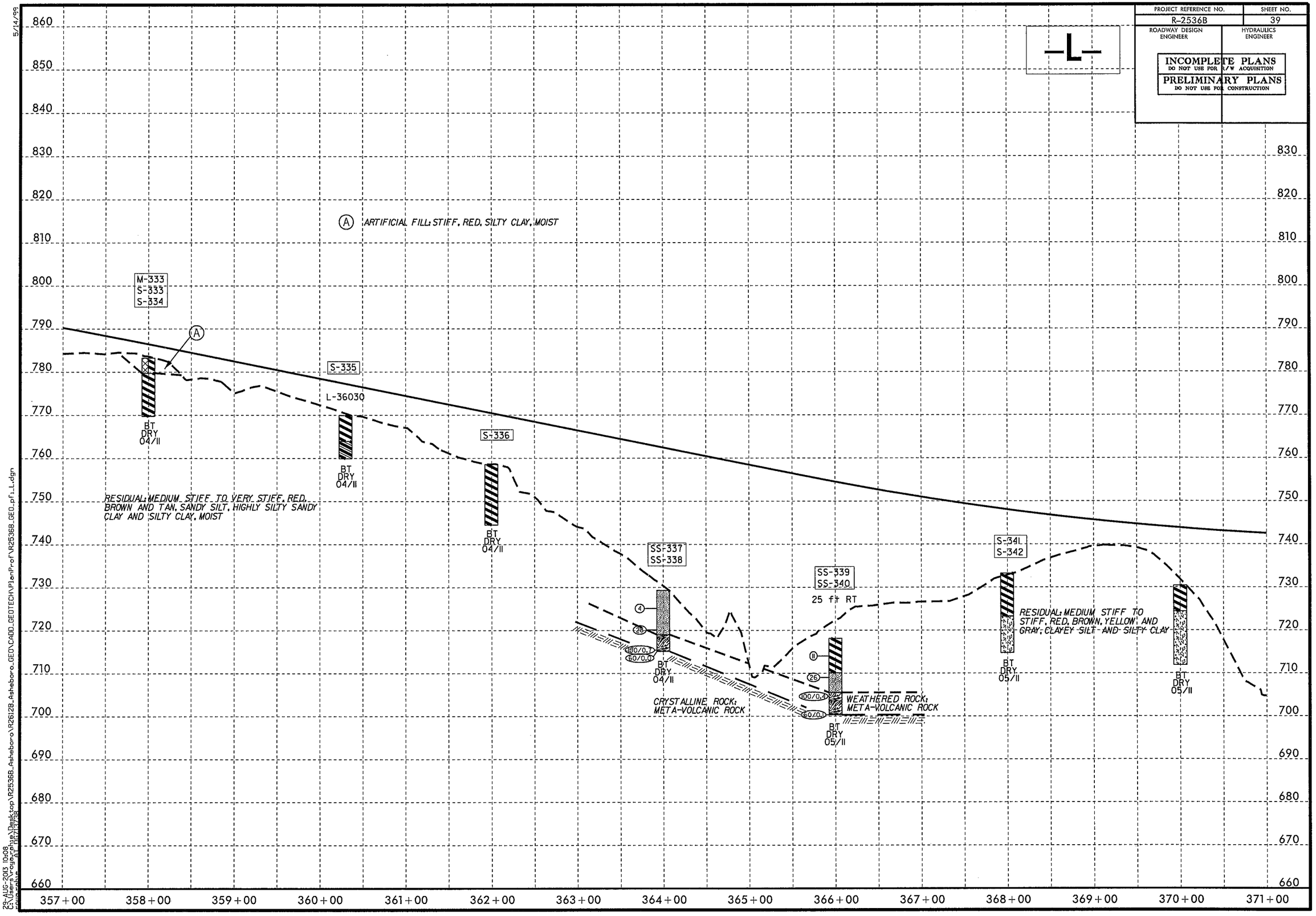
Bentley PowerGeotech 8.11.07.233

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	39
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

23-AUG-2013 10:08
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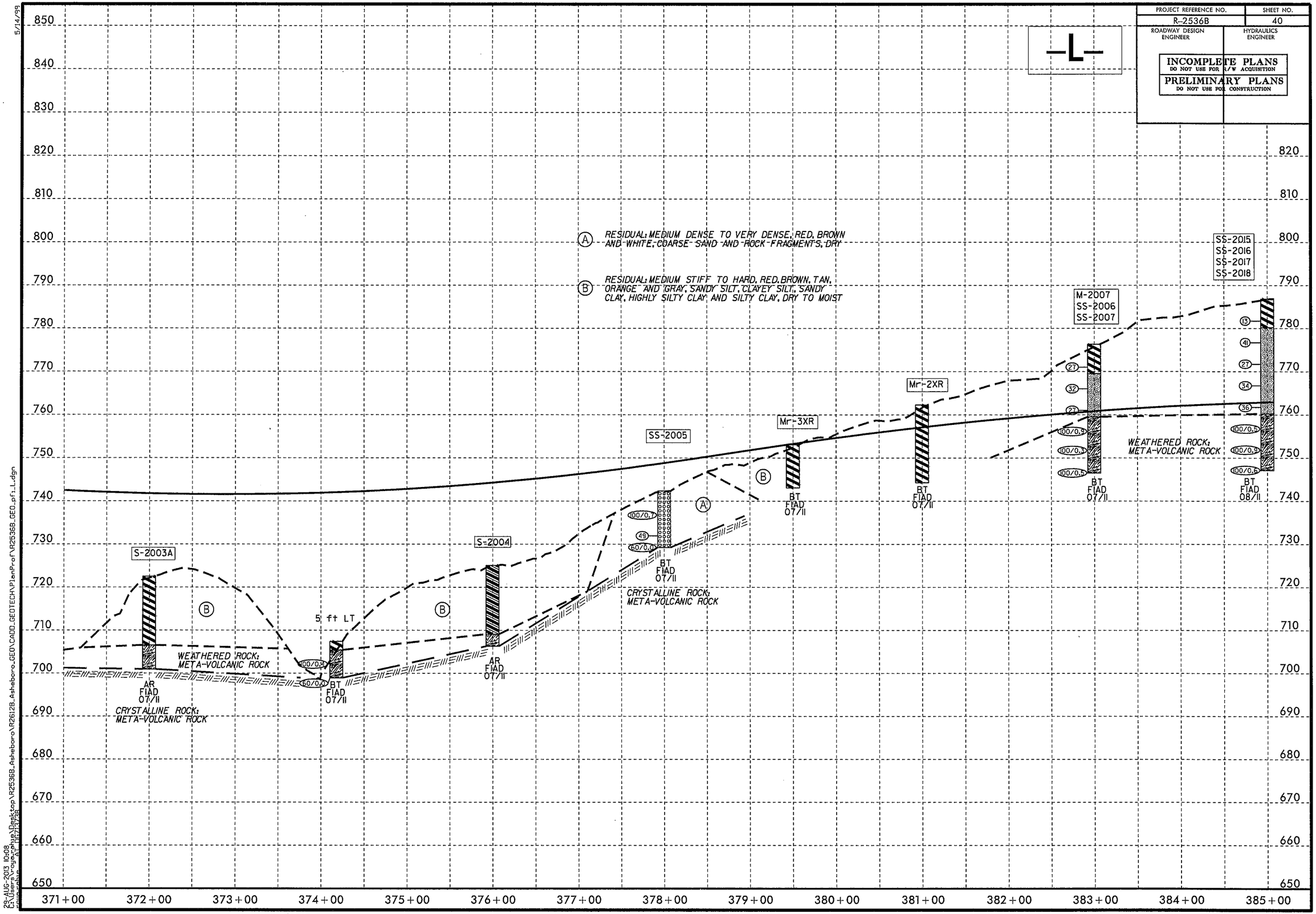
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	40
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

23-AUG-2013 10:08
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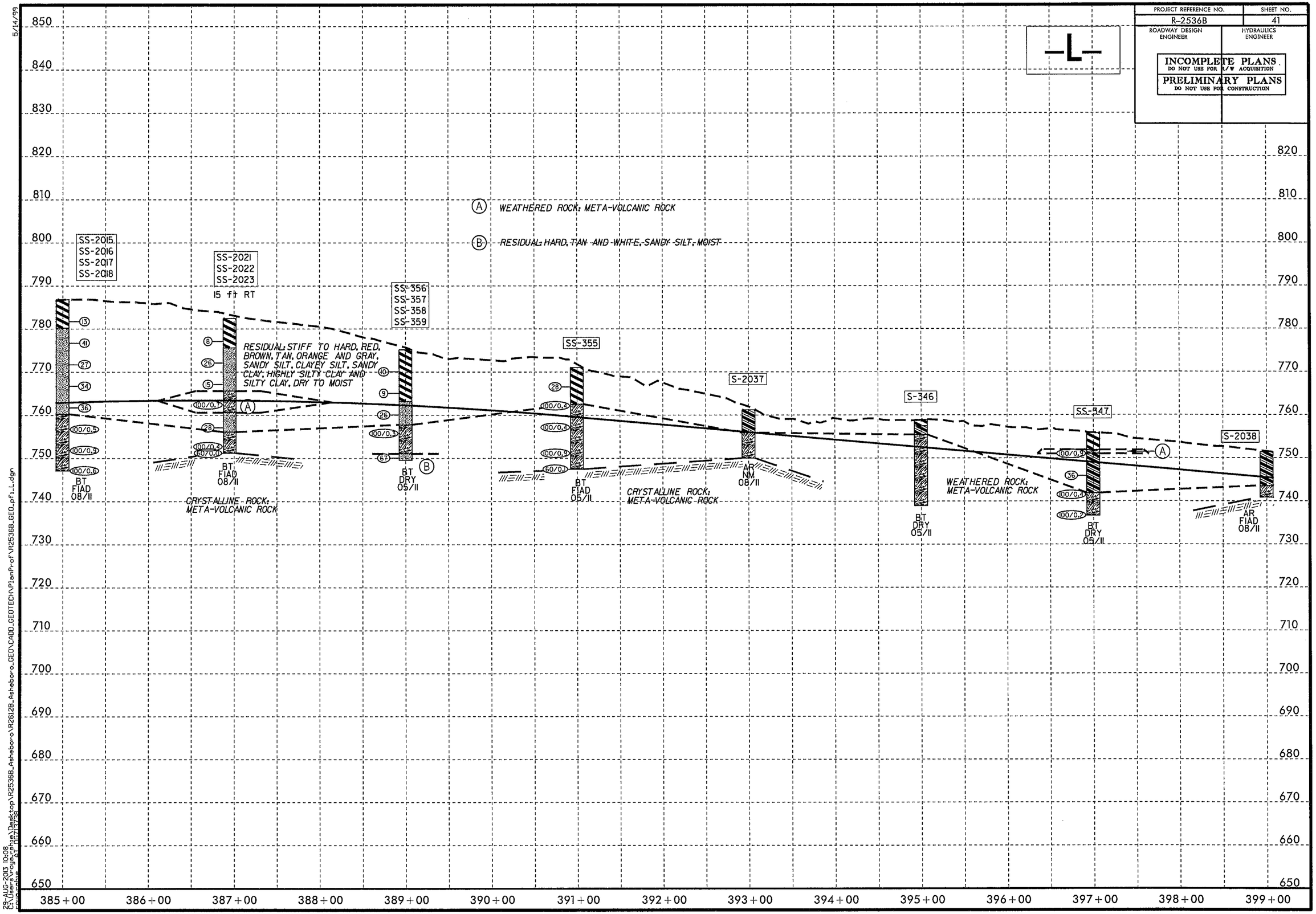
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	41
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

29-AUG-2013 10:08
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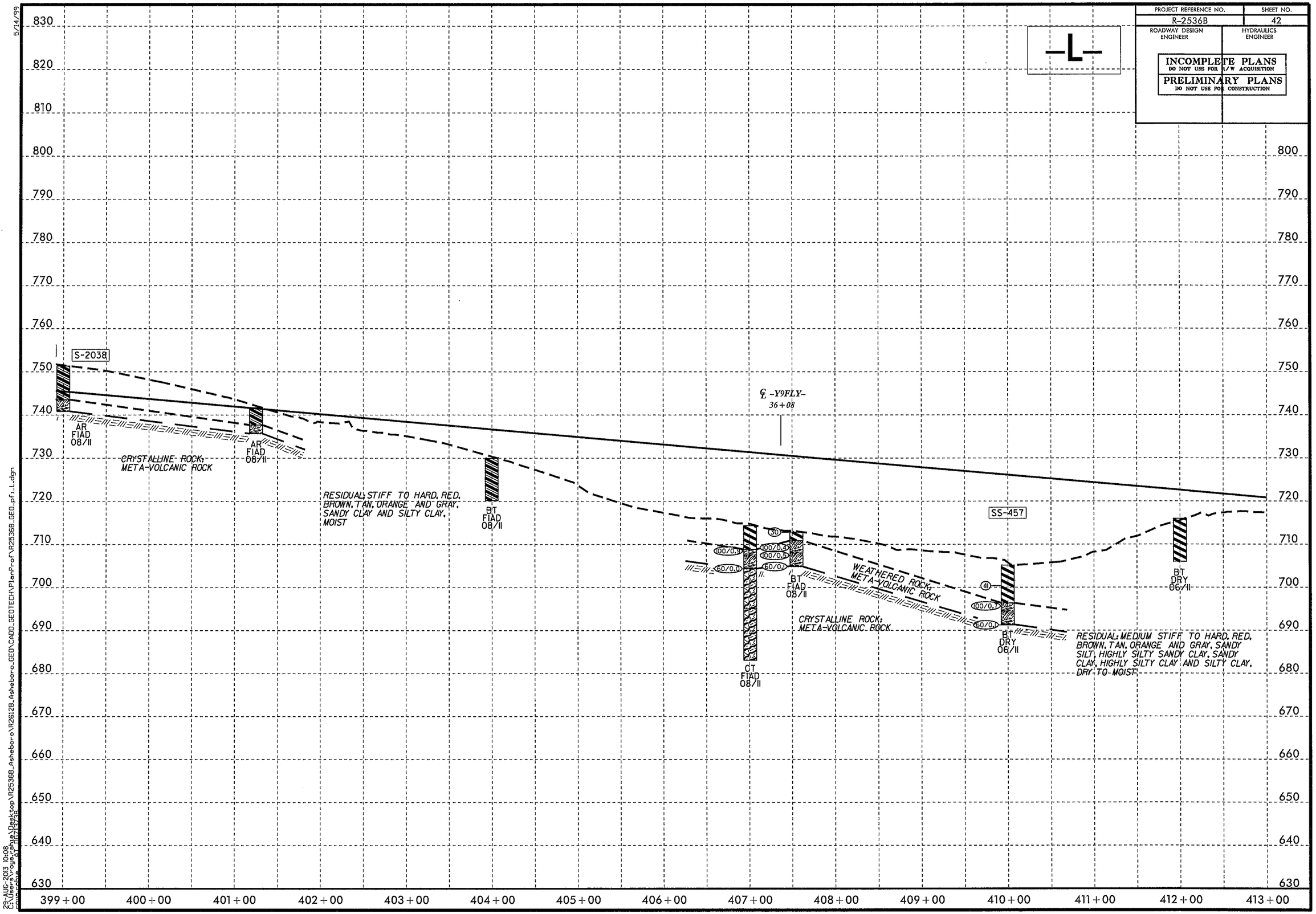
pwworkspace
$$ 11/17/98

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	42
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

29-AUG-2013 10:08
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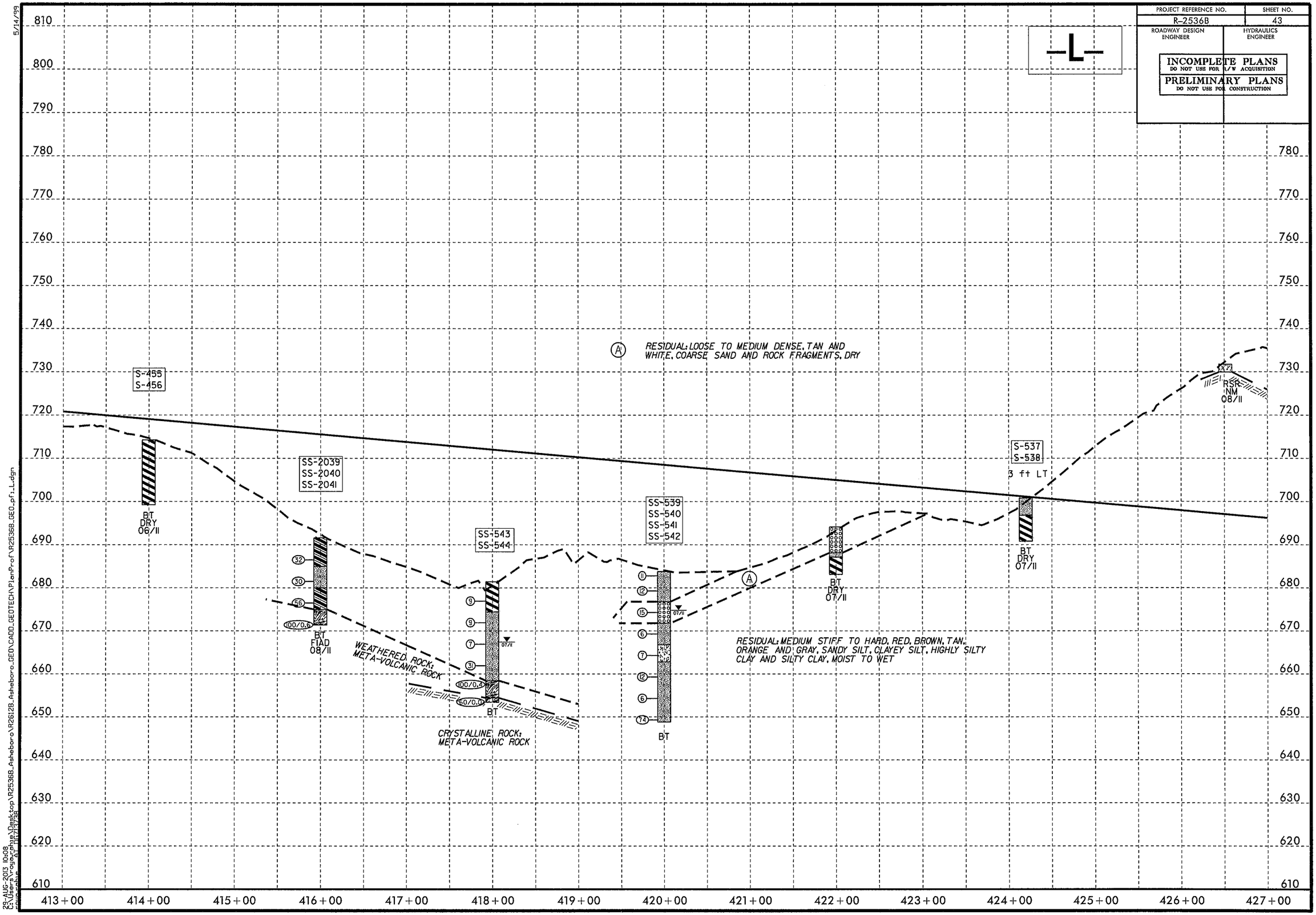
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	43
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

28-AUG-2013 10:08
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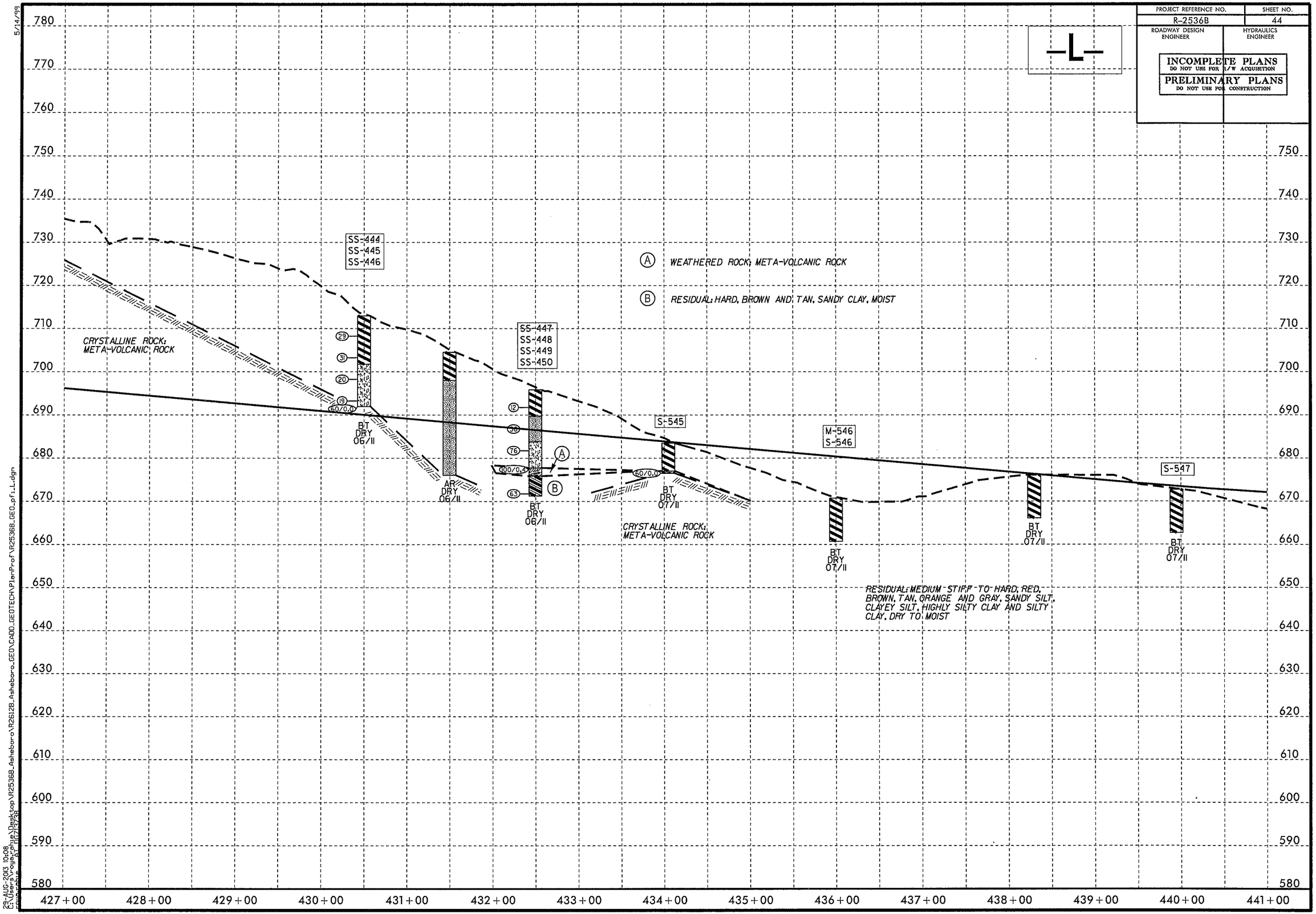
roybrehme

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	44
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

29-AUG-2013 10:08
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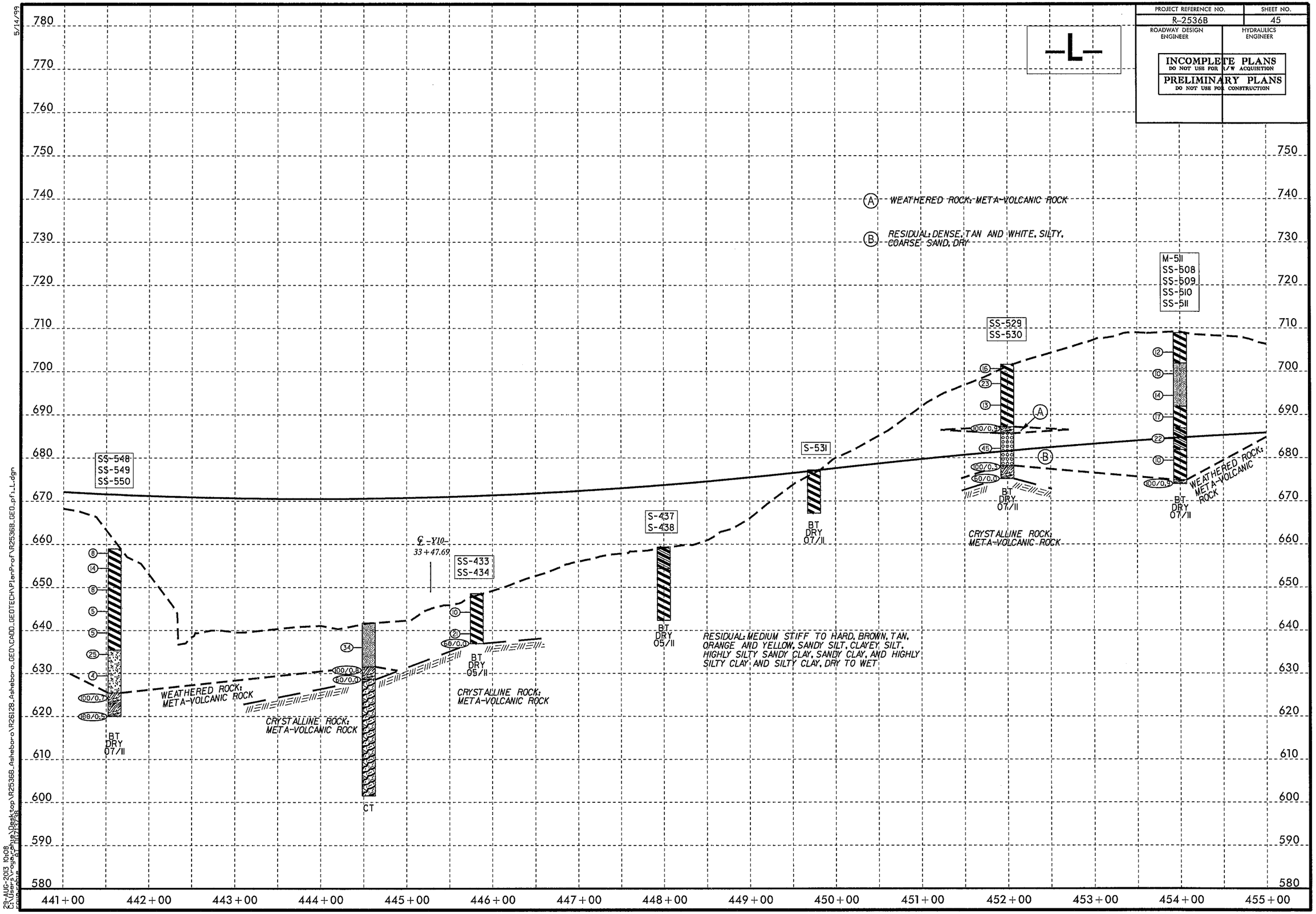
rouyrchine 27.11.7.7.20

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	45
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

23-AUG-2013 10:08
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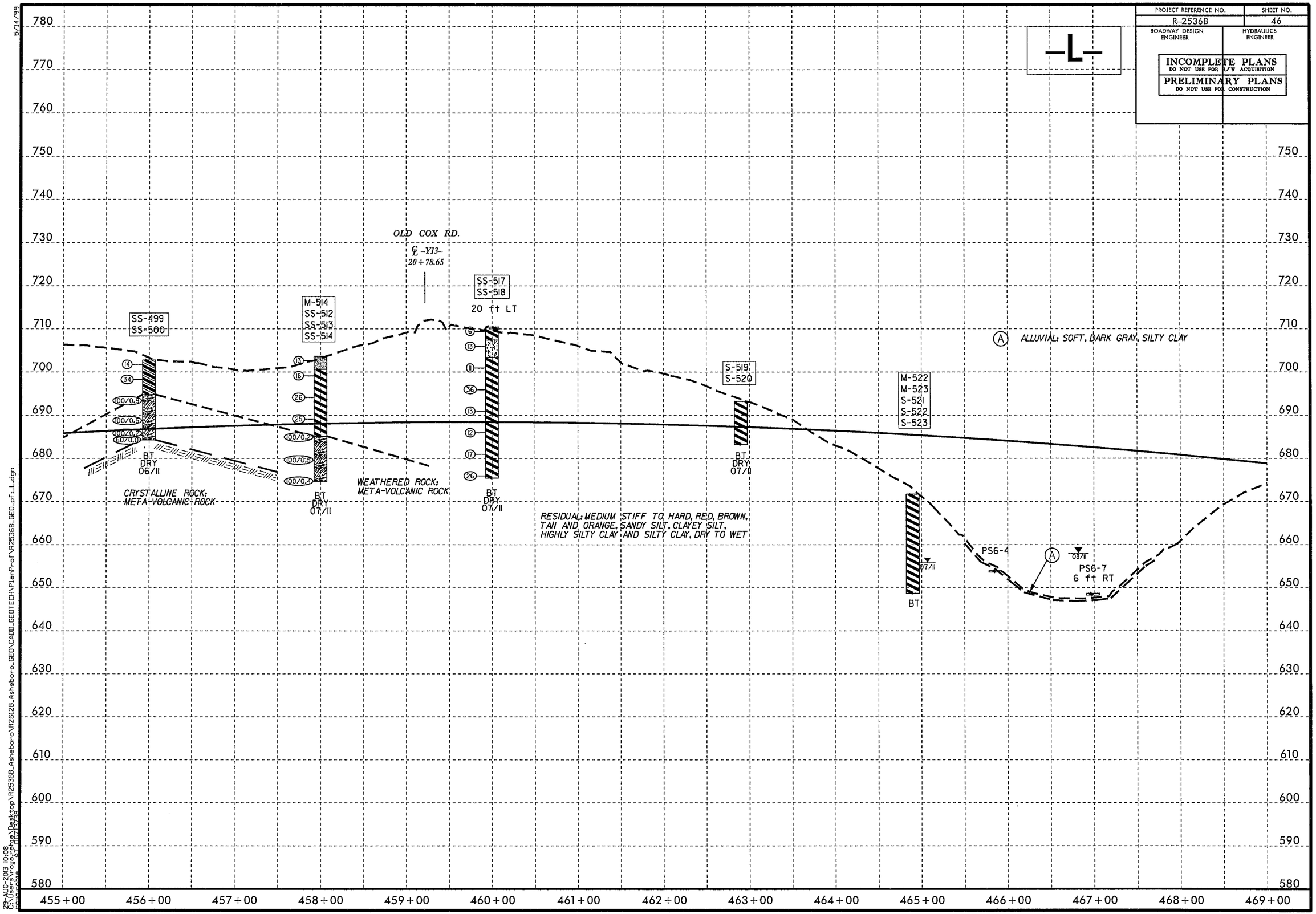
roya-chae 07/17/13

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	46
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

29-AUG-2013 10:08
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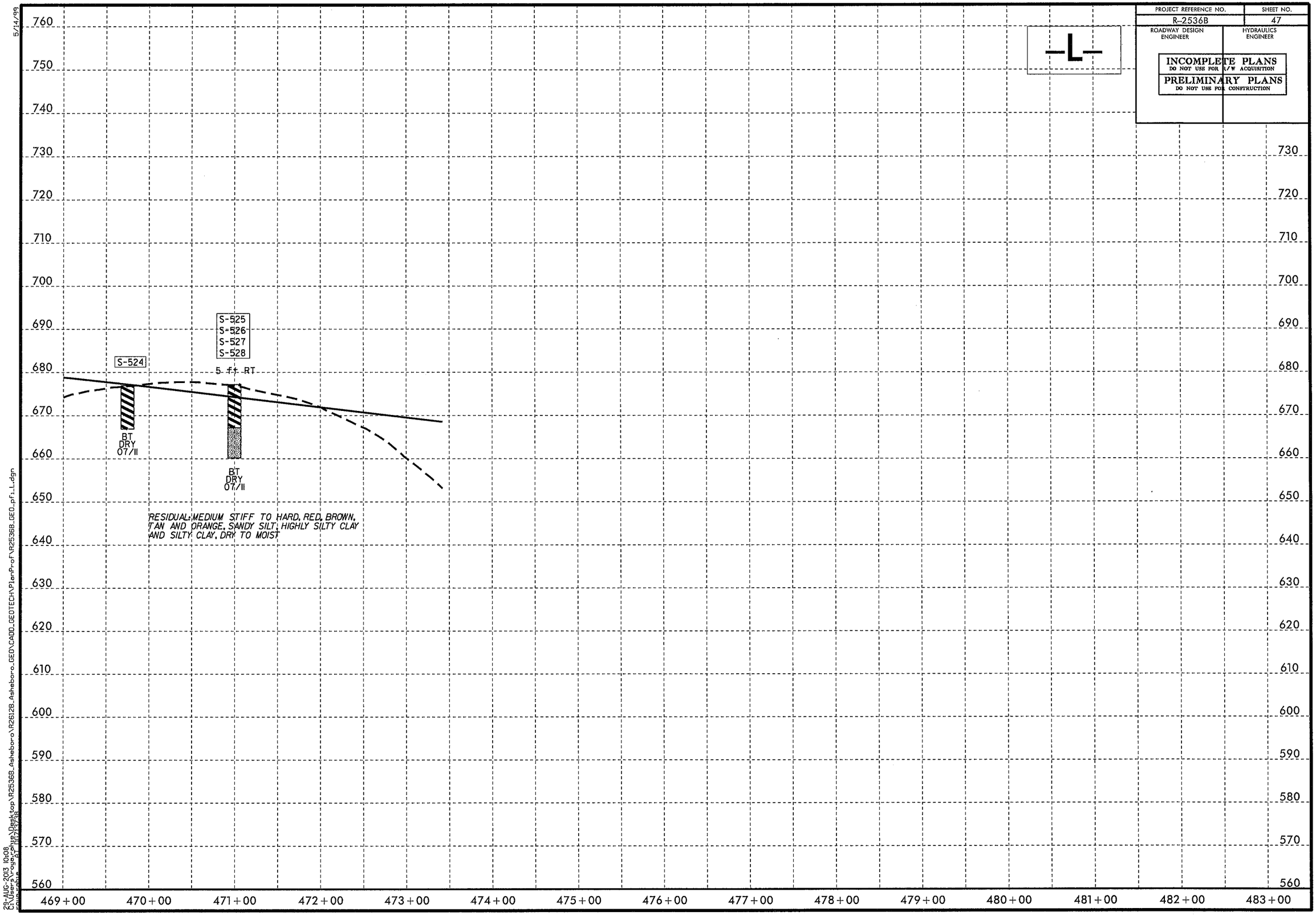
mikeehne

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	47
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



5/14/99

23-AUG-2013 10:08
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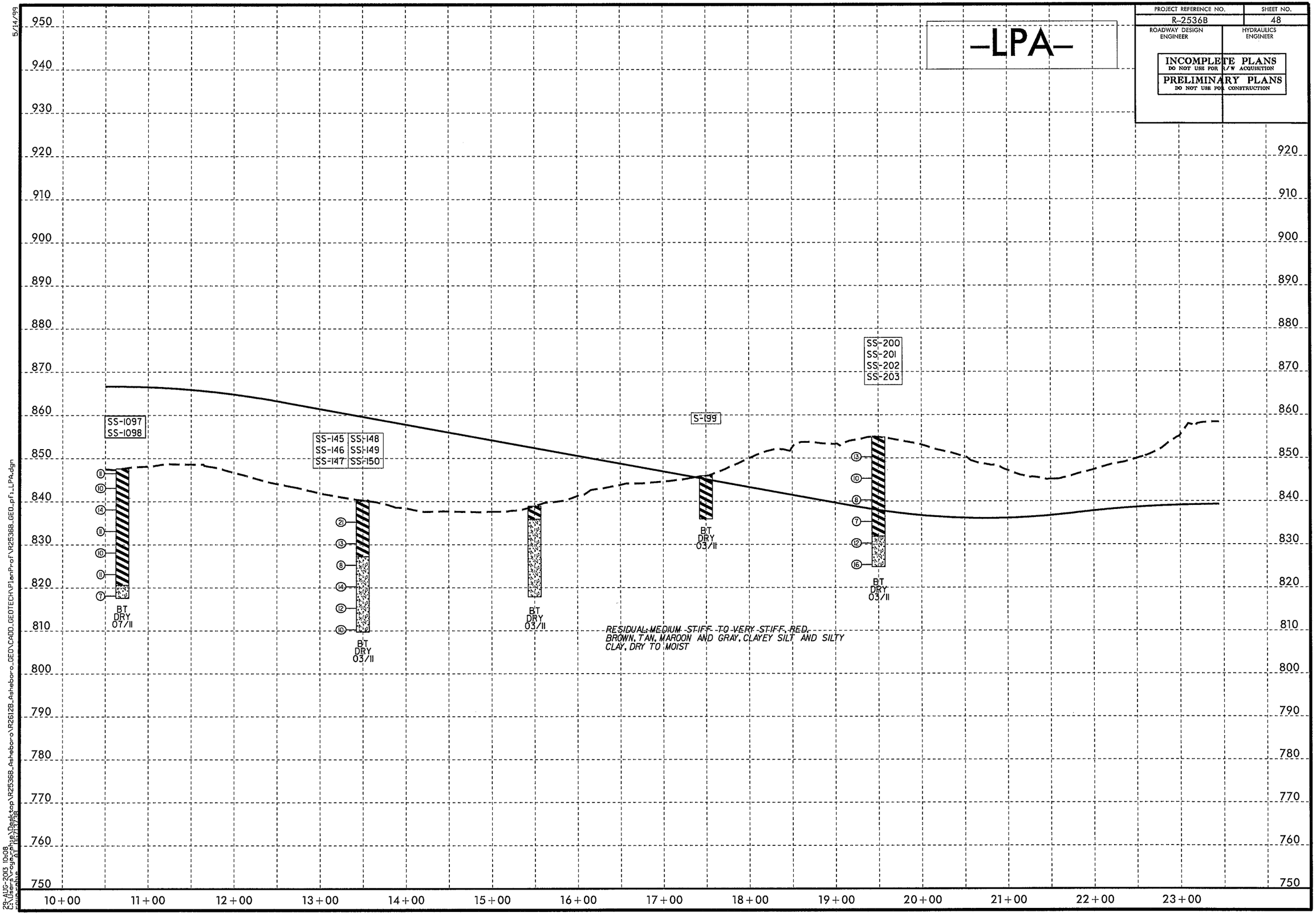
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	48
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-LPA-



5/14/99

23-AUG-2013 10:08
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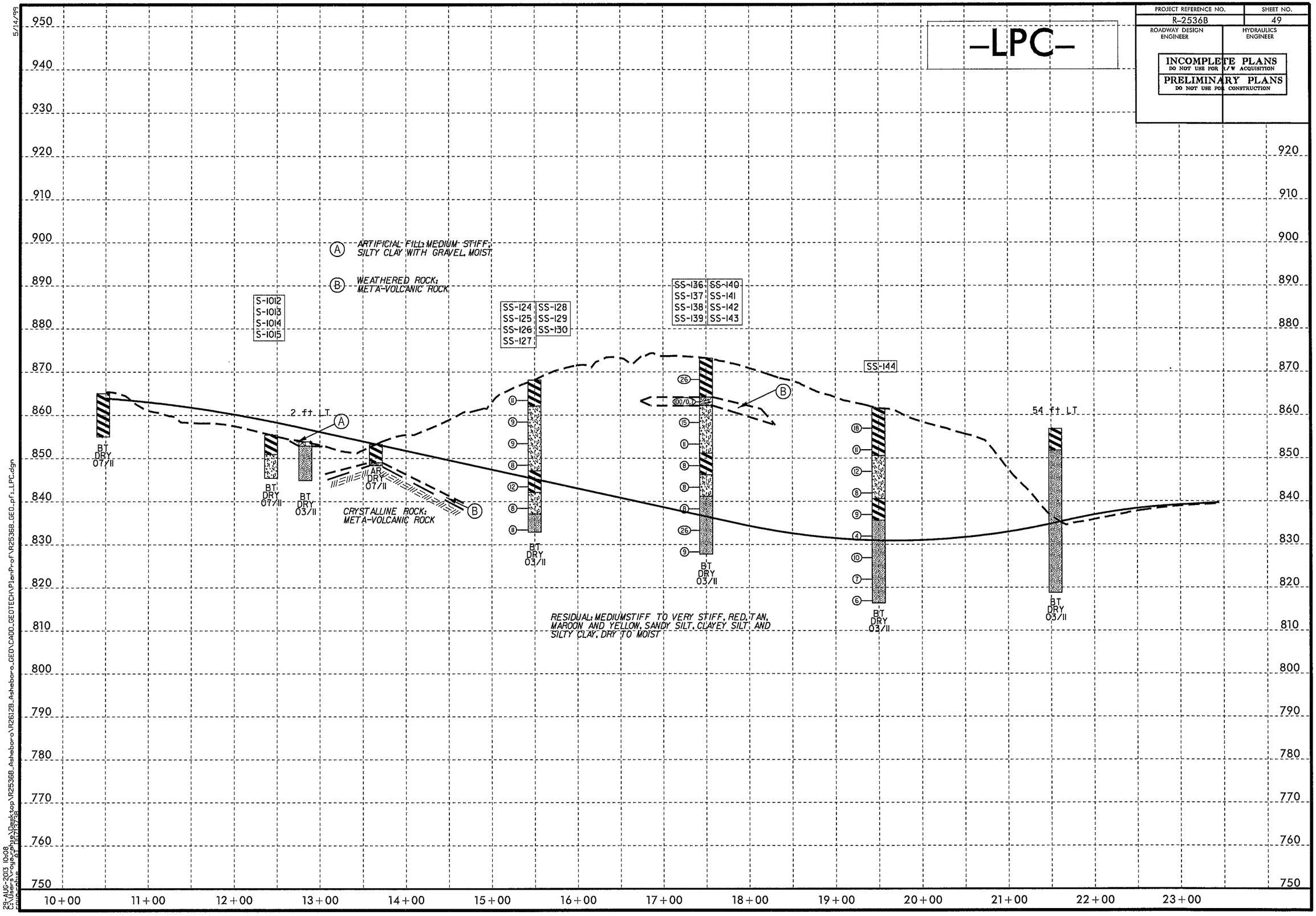
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	49
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-LPC-



5/14/99

23-AUG-2013 10:08
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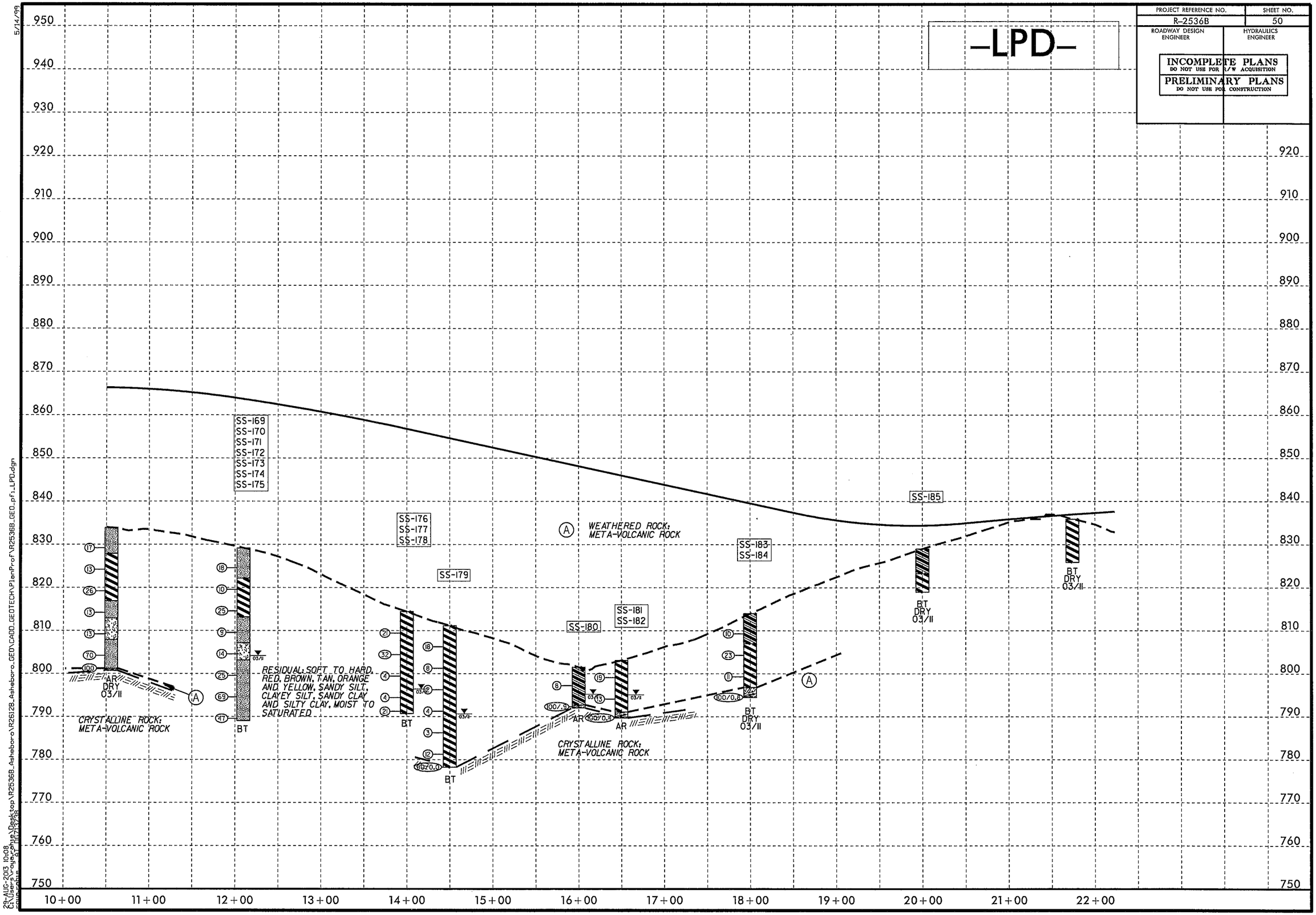
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	50
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-LPD-



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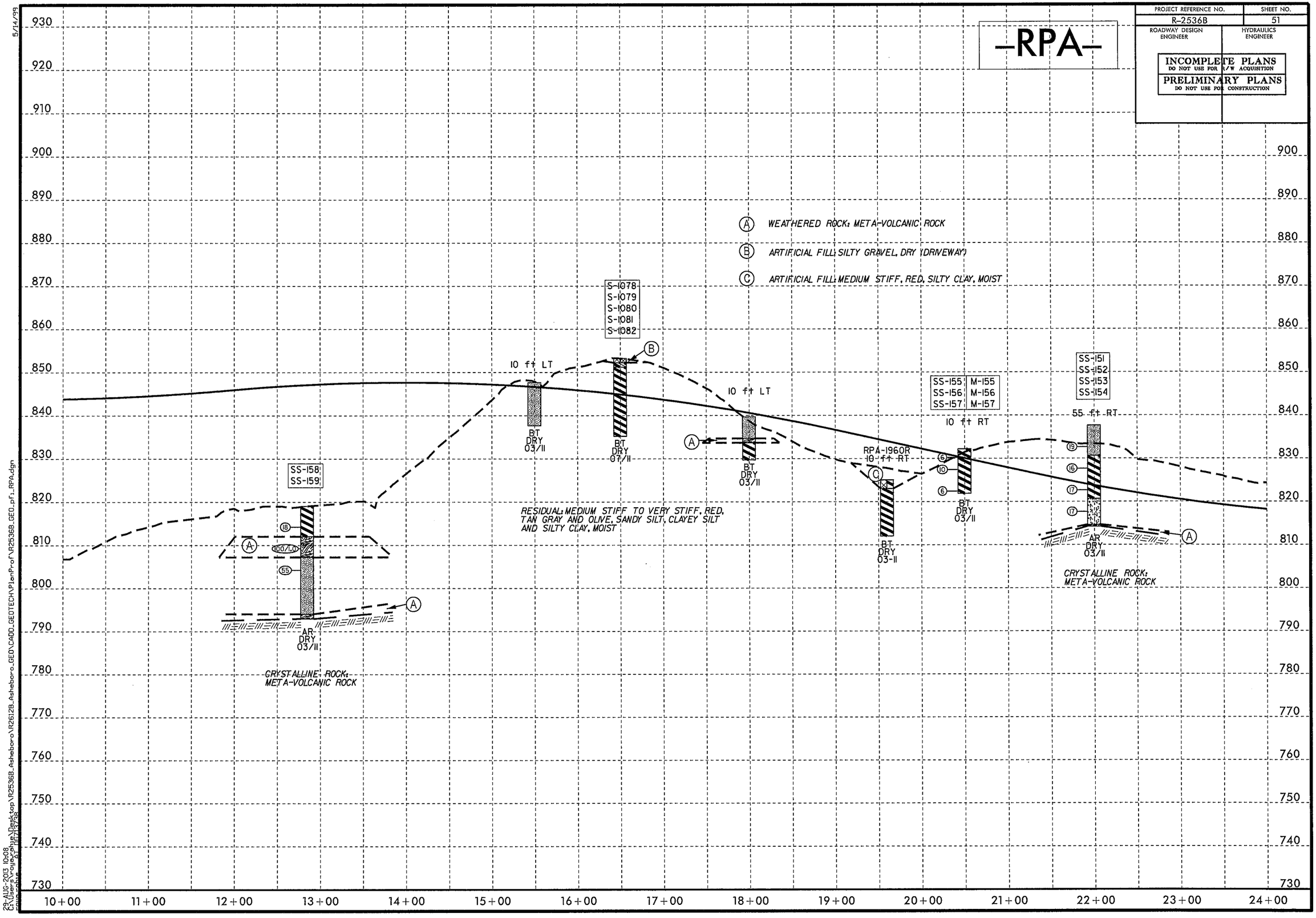
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	51
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-RPA-



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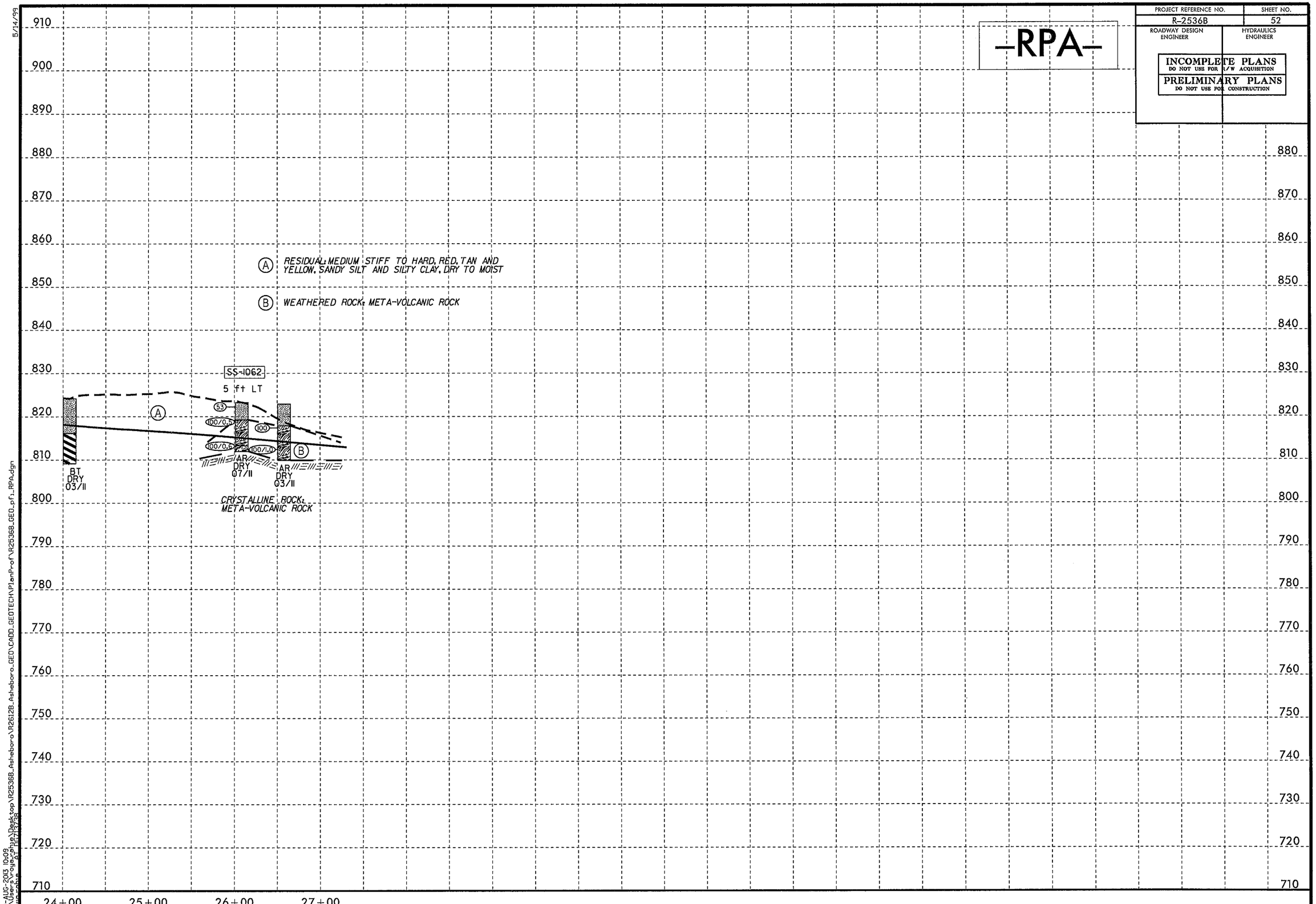
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	52
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-RPA-



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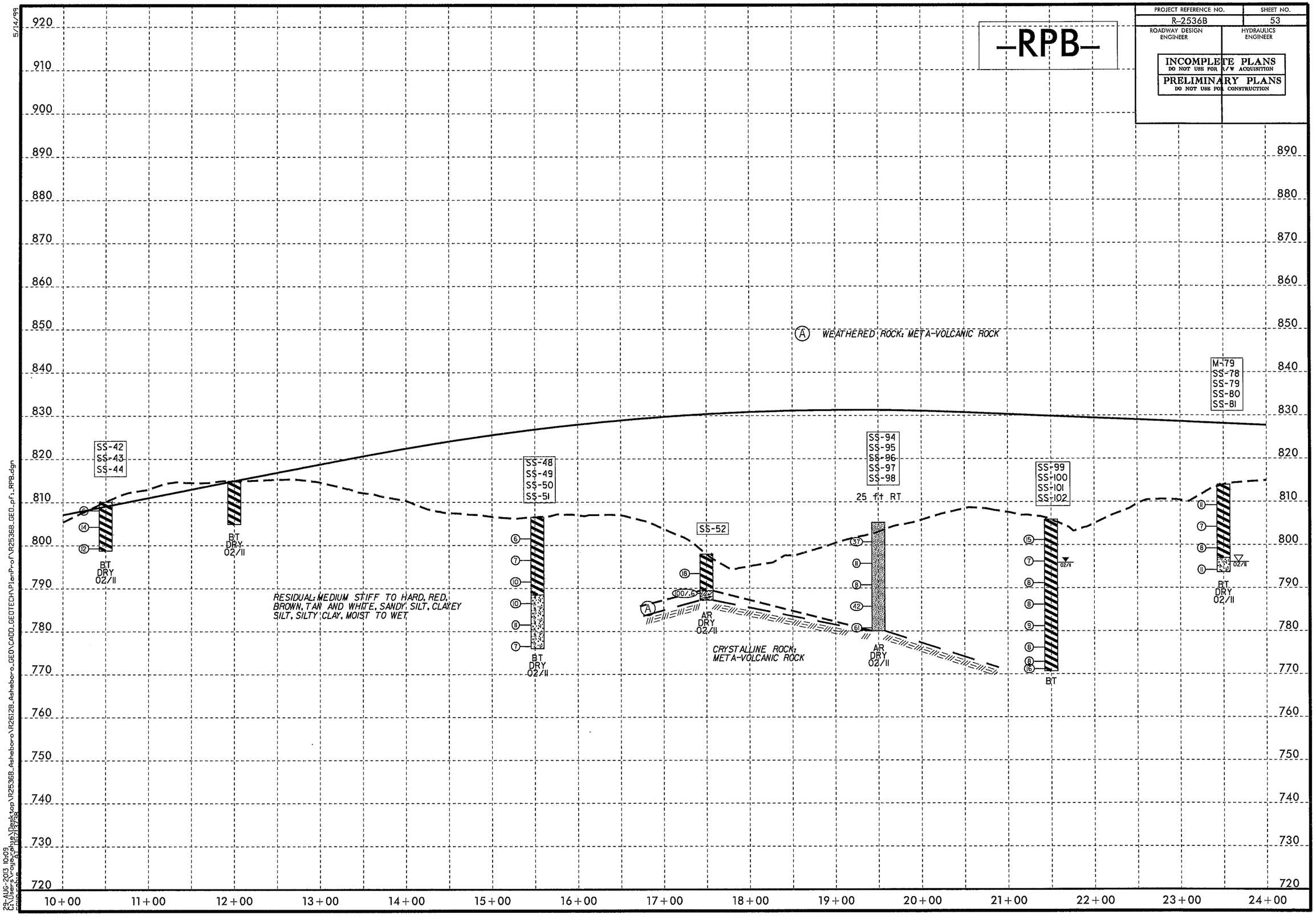
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	53
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-RPB-



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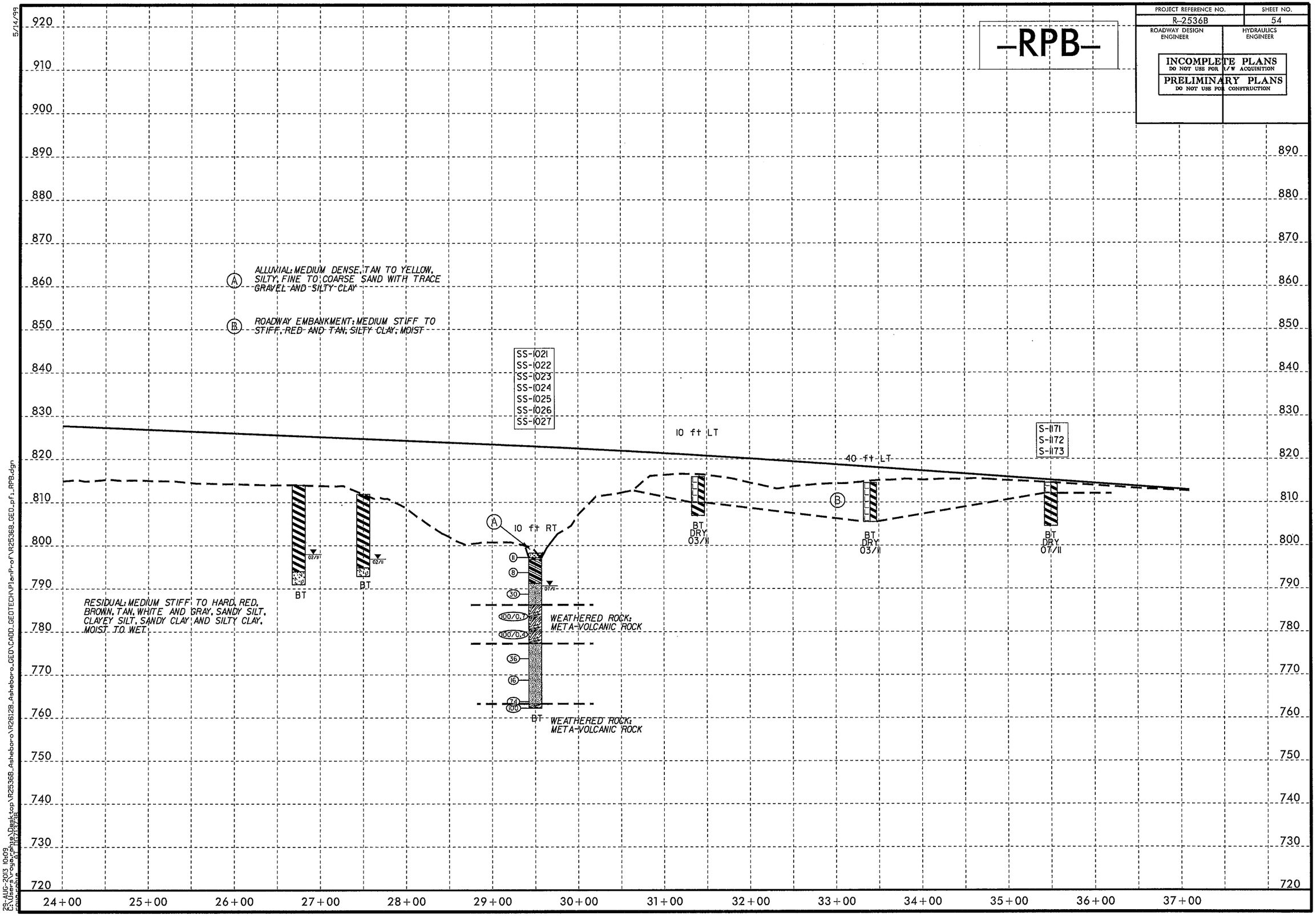
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	54
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-RPB-



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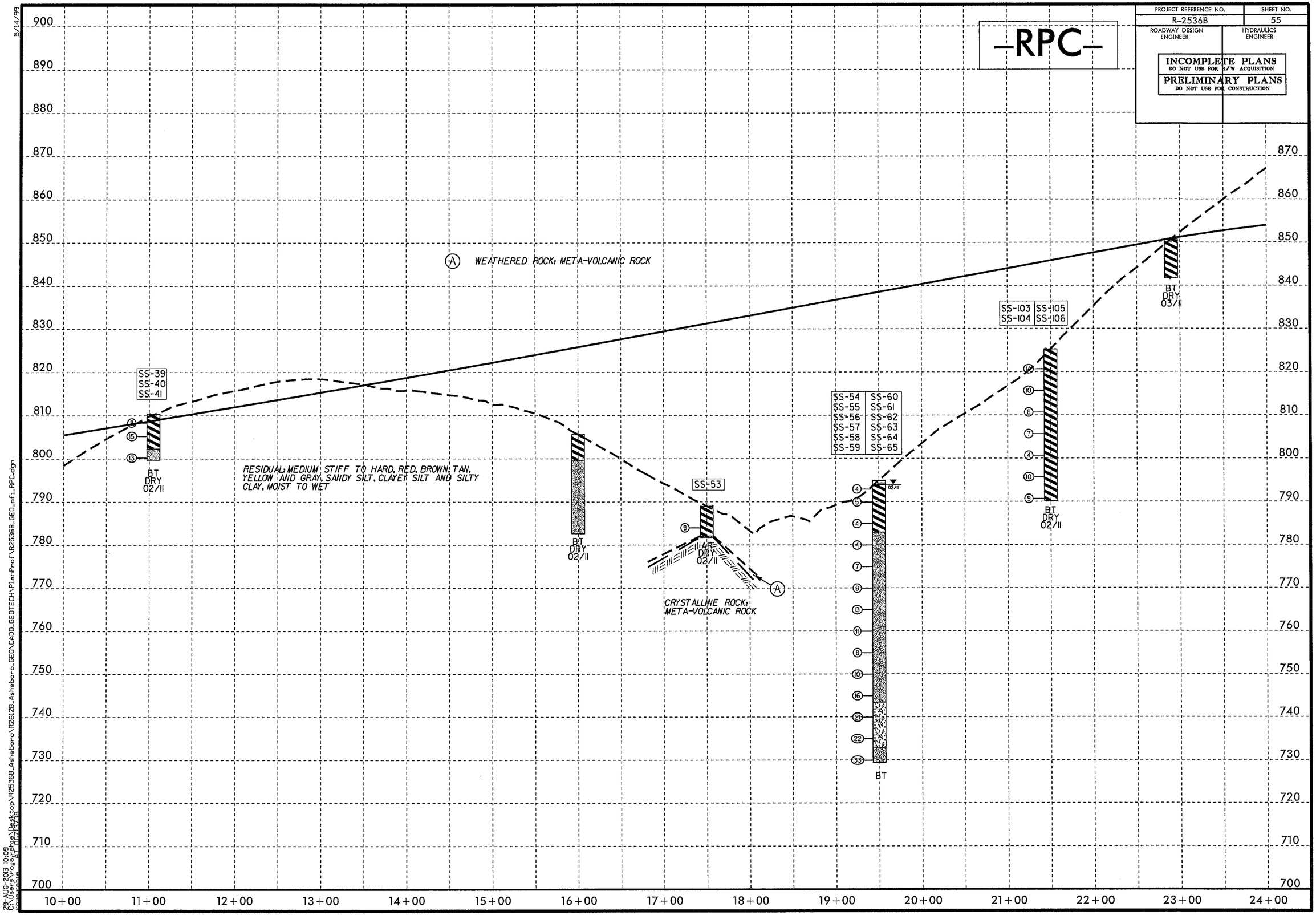
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	55
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-RPC-



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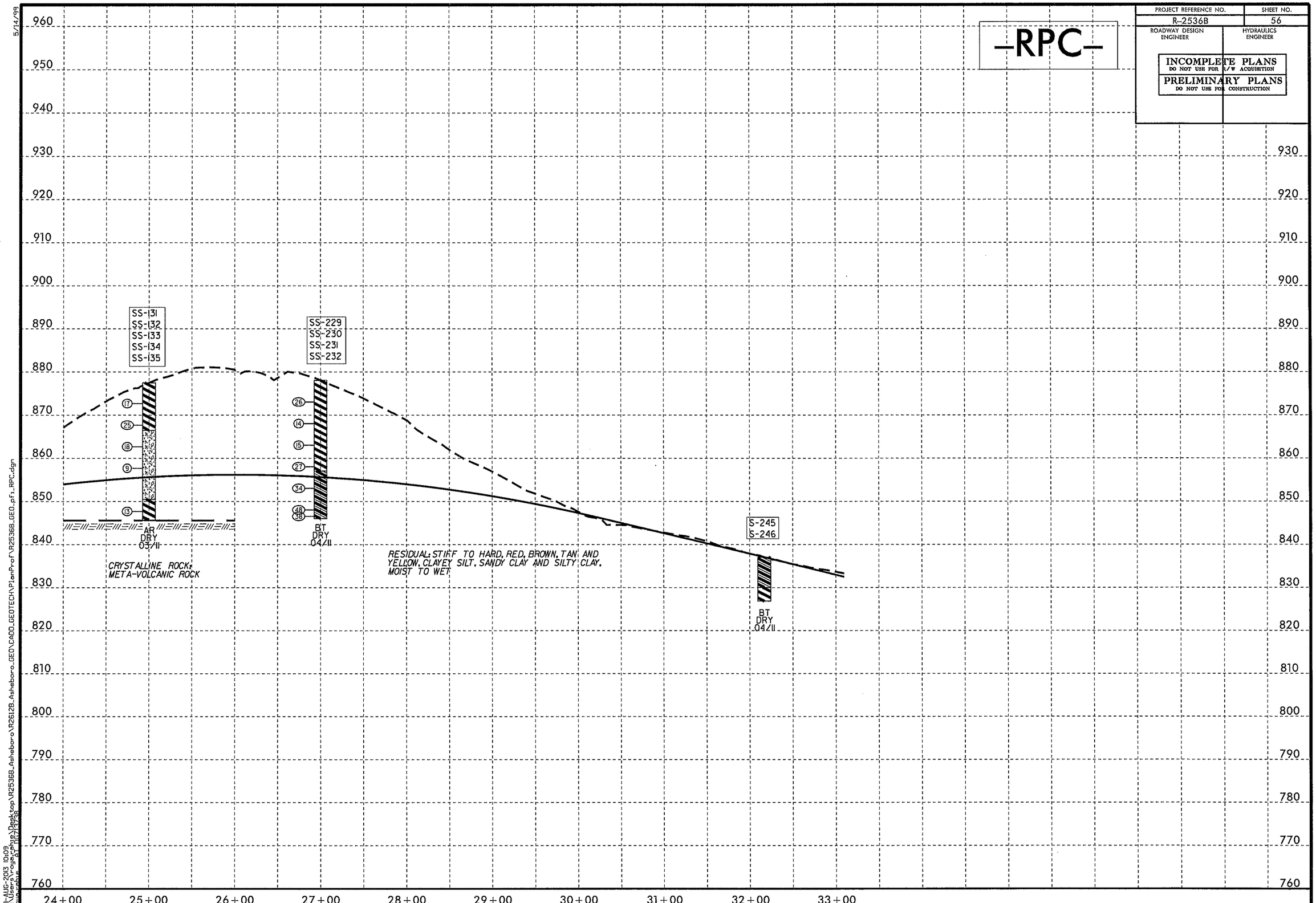
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	56
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-RPC-



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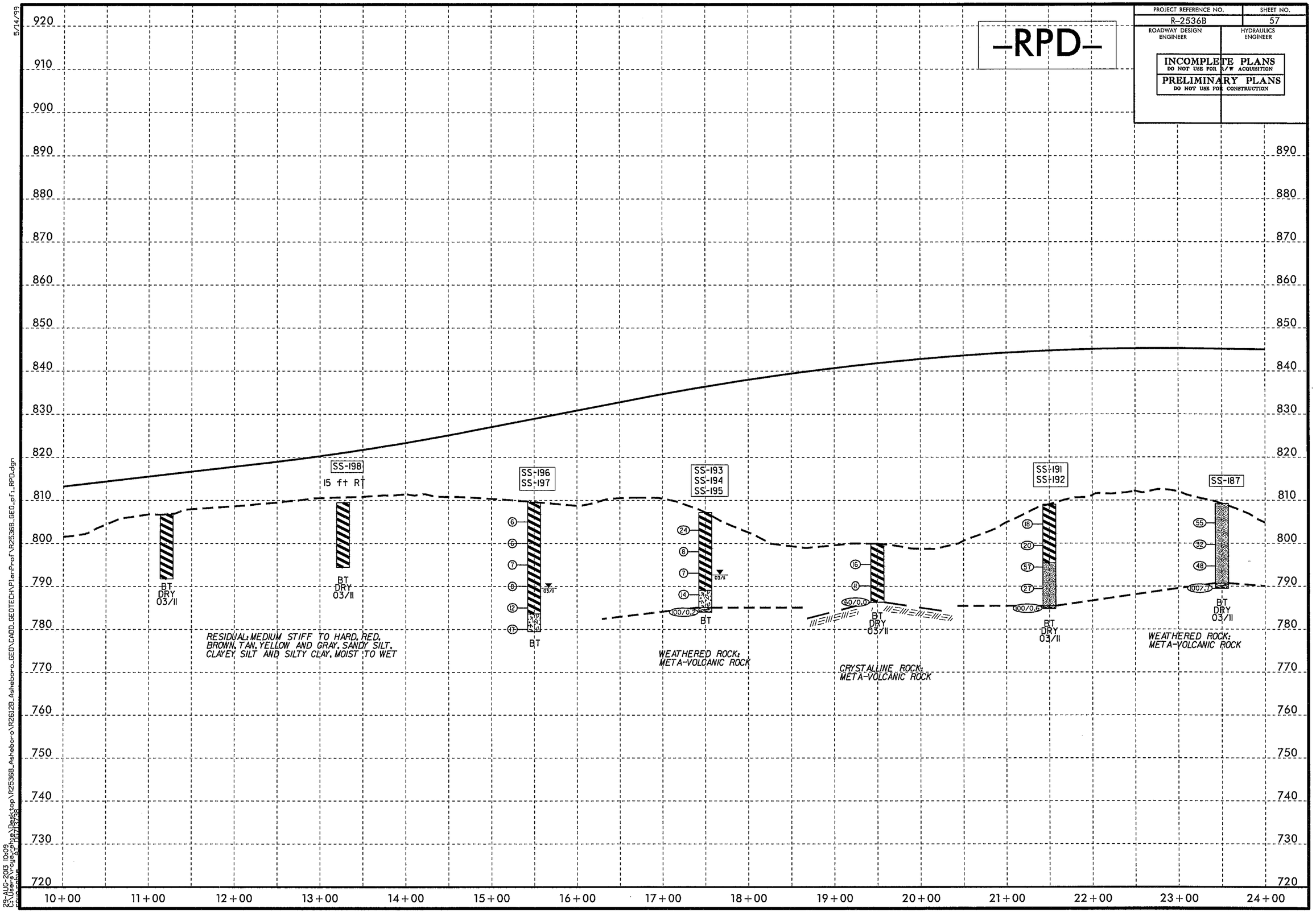
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	57
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-RPD-



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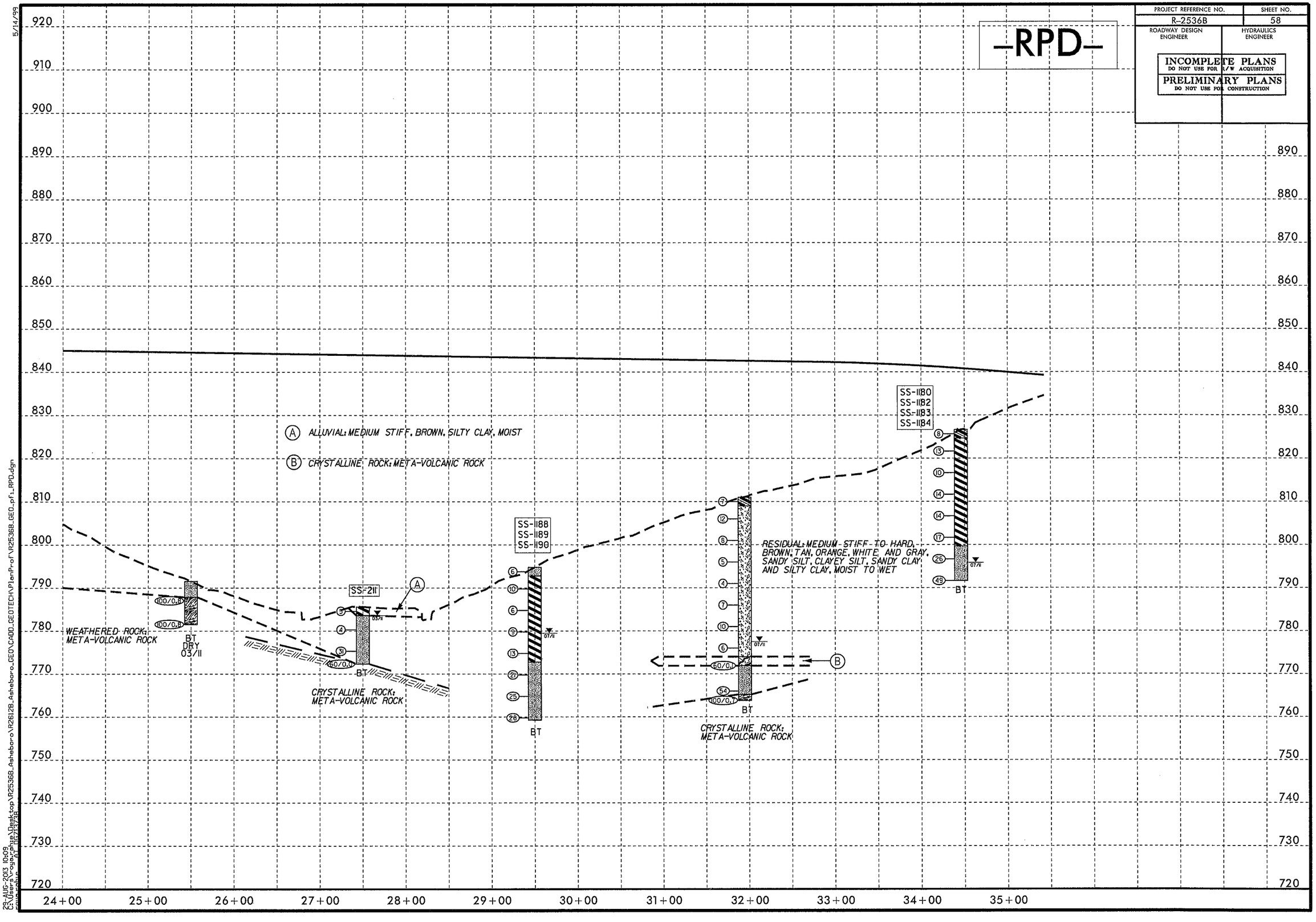
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	58
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-RPD-



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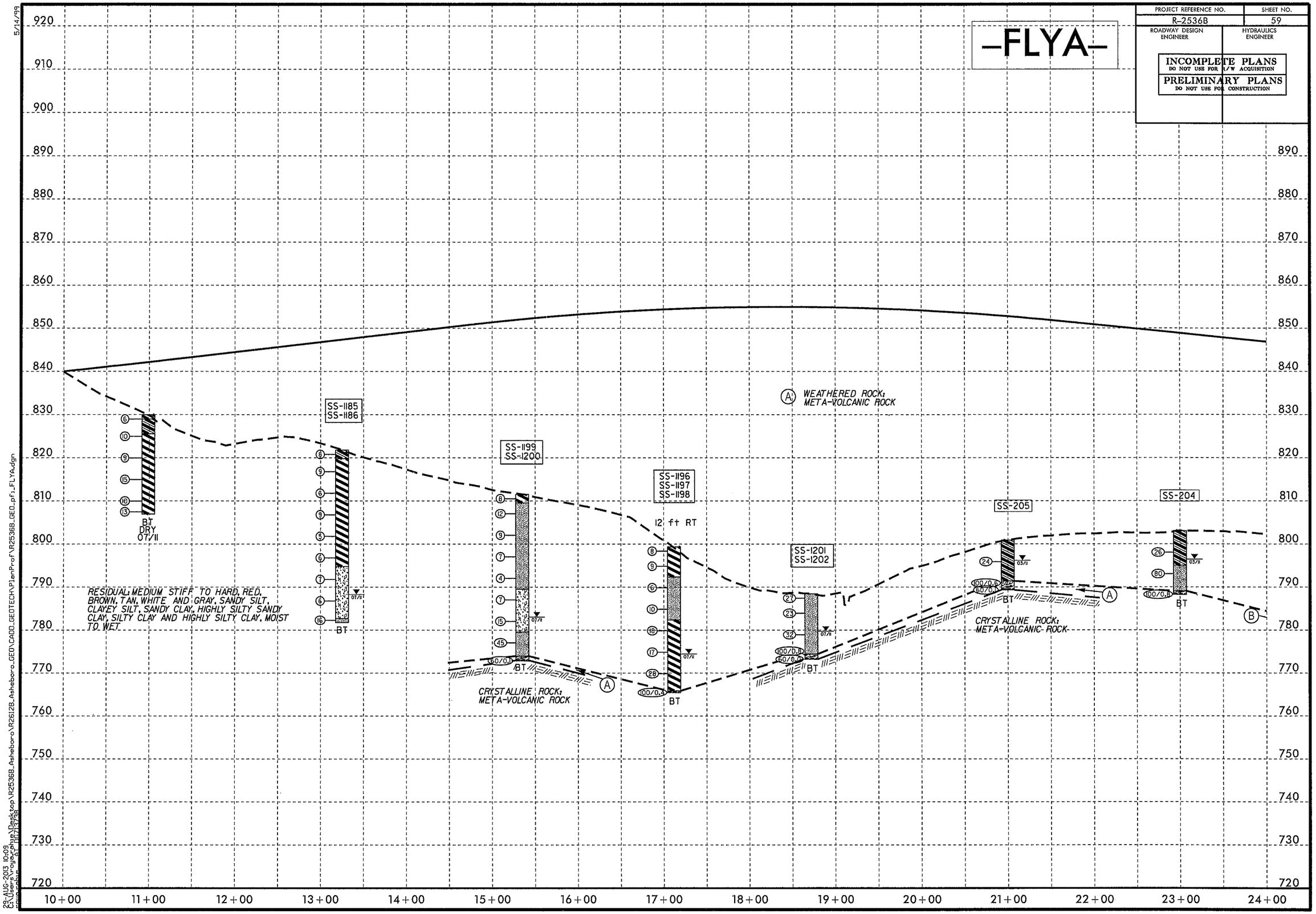
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	59
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-FLYA-



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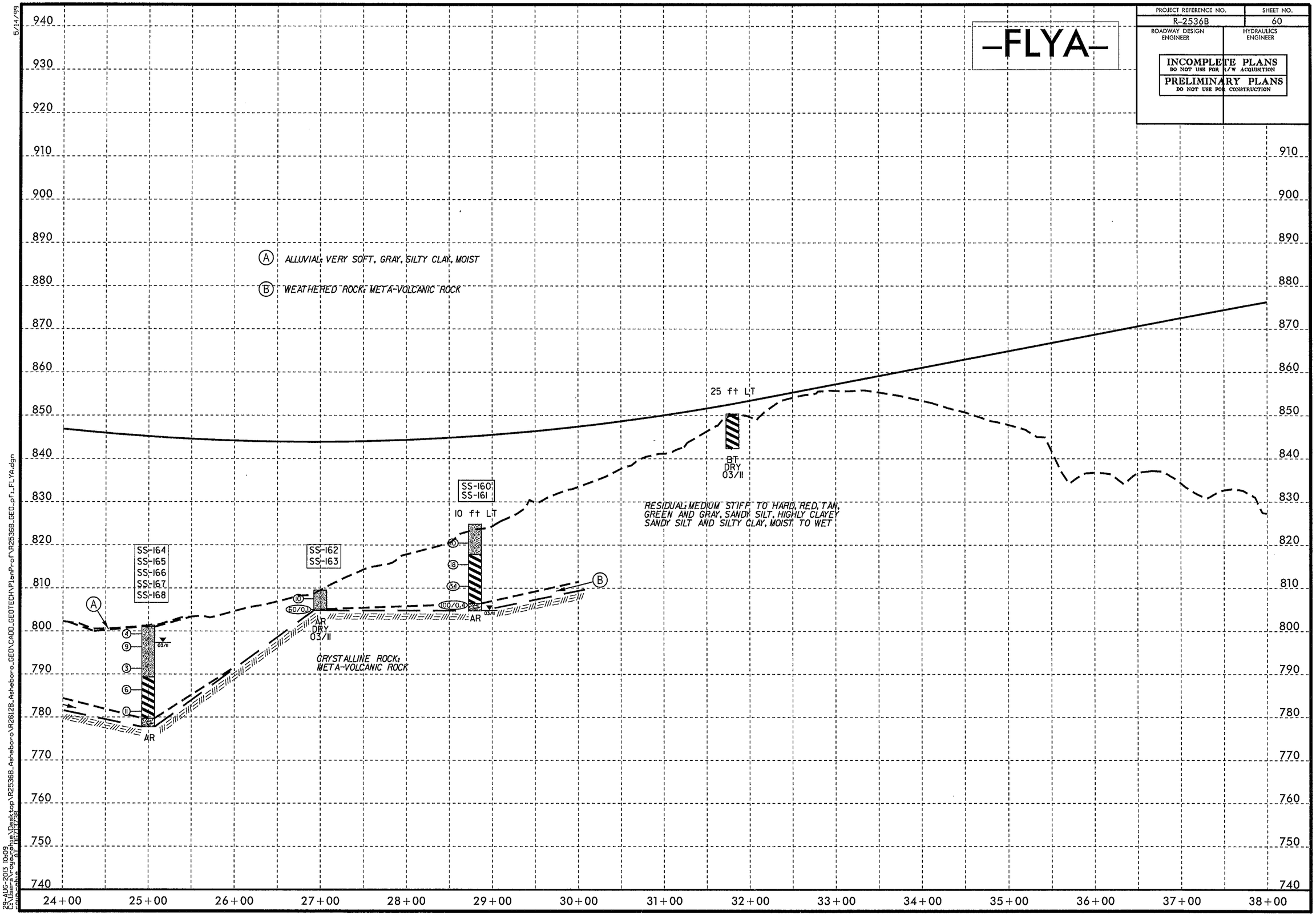
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	60
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-FLYA-



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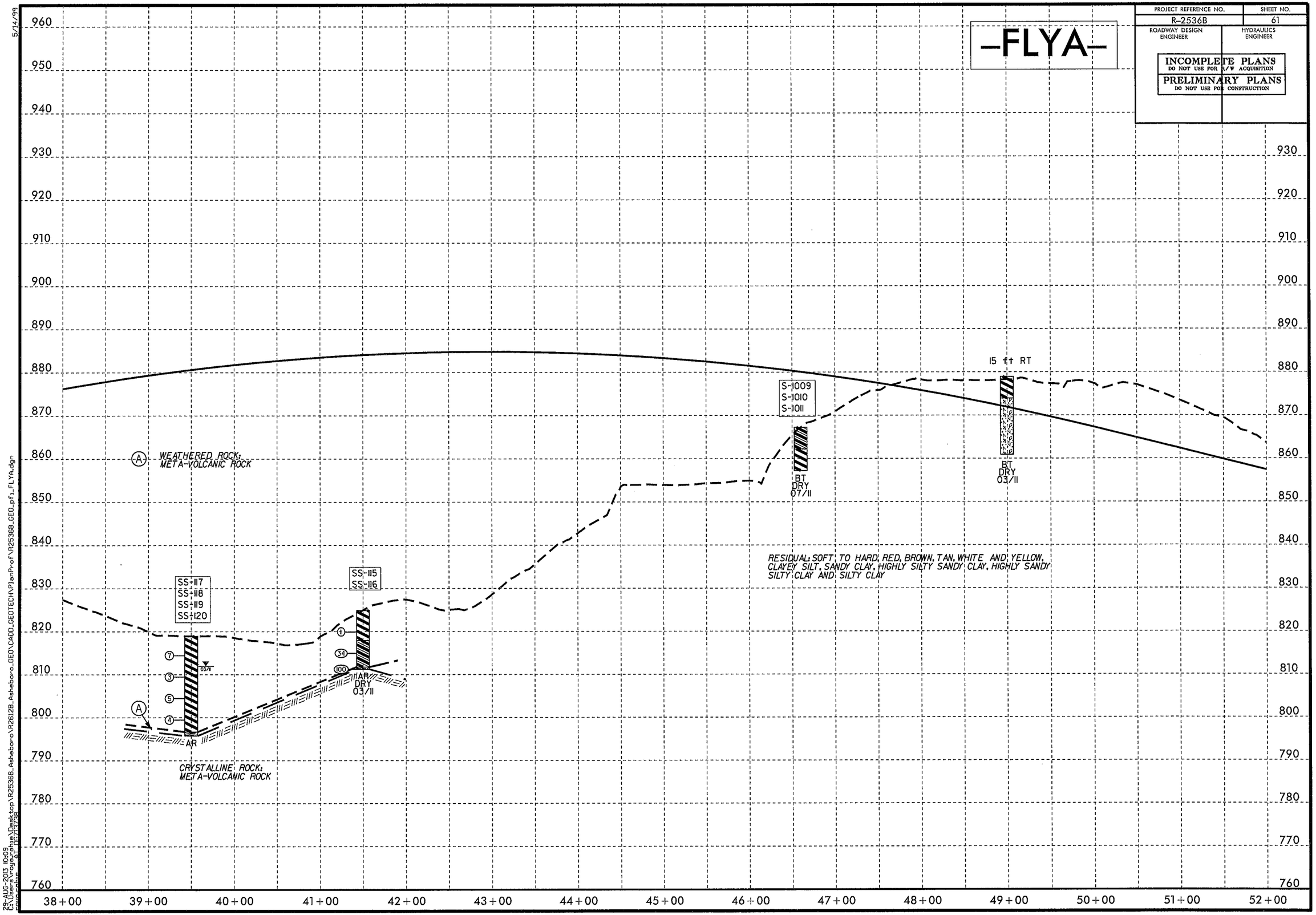
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	61
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-FLYA-



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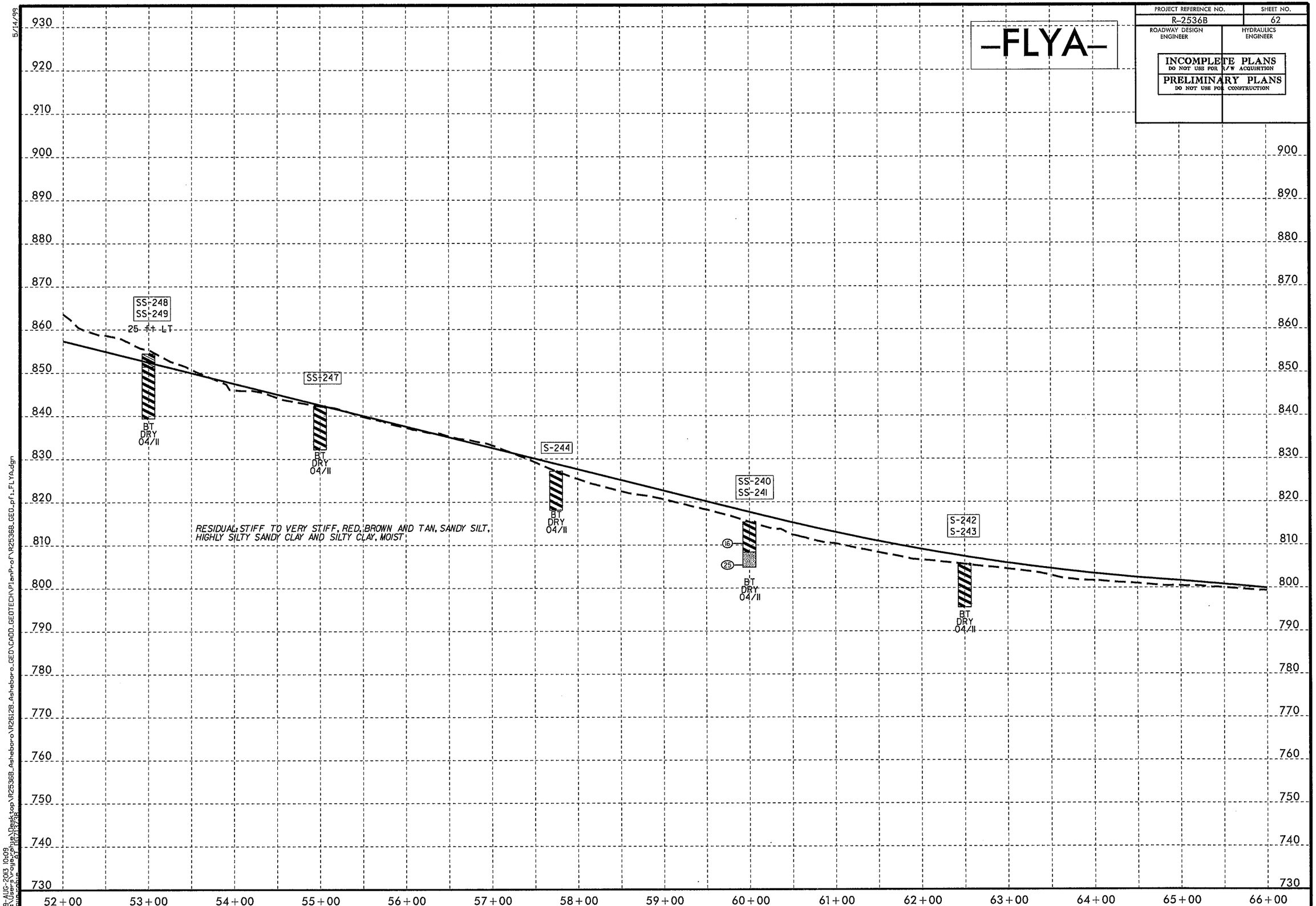
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	62
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-FLYA-



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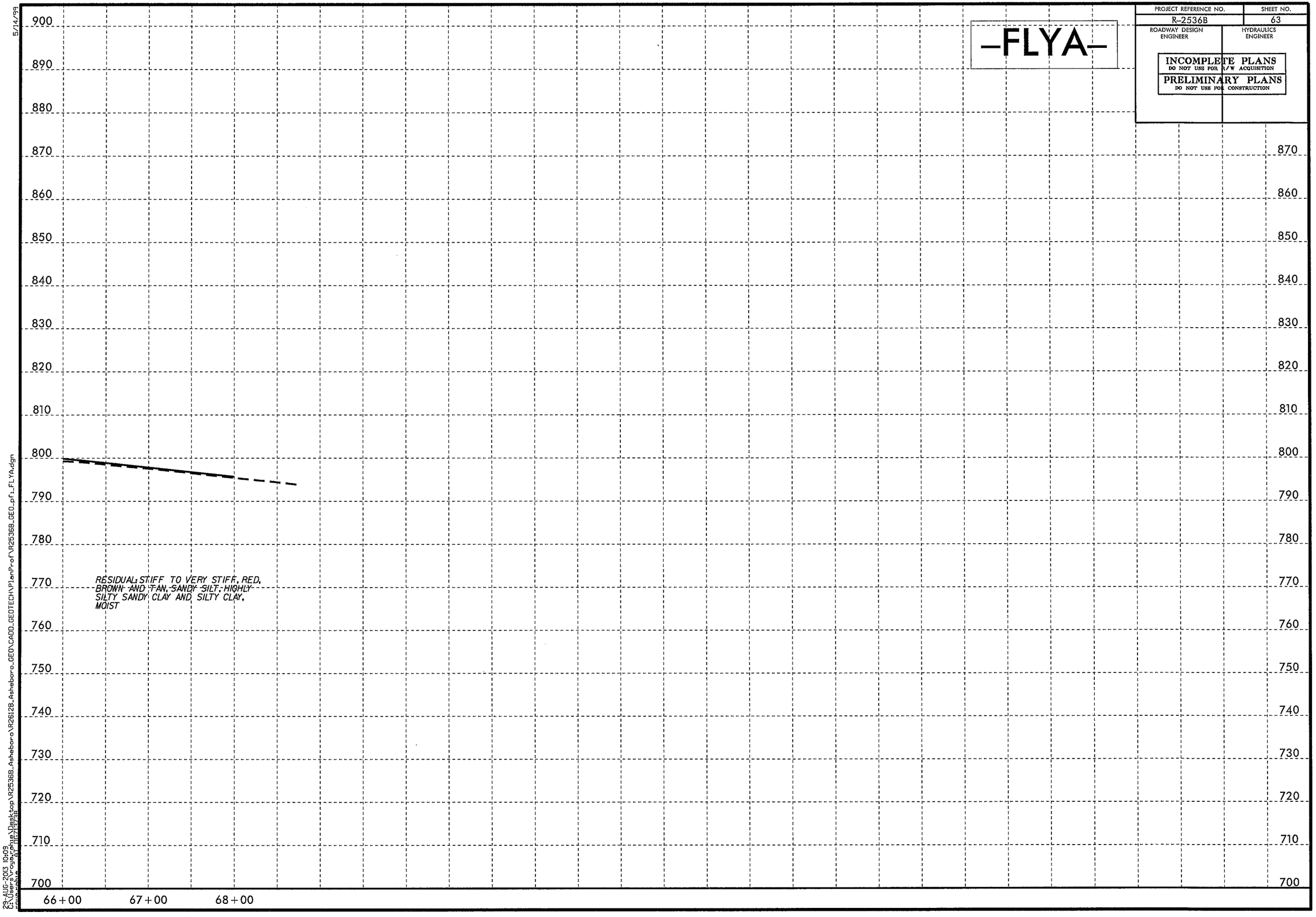
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	63
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-FLYA-



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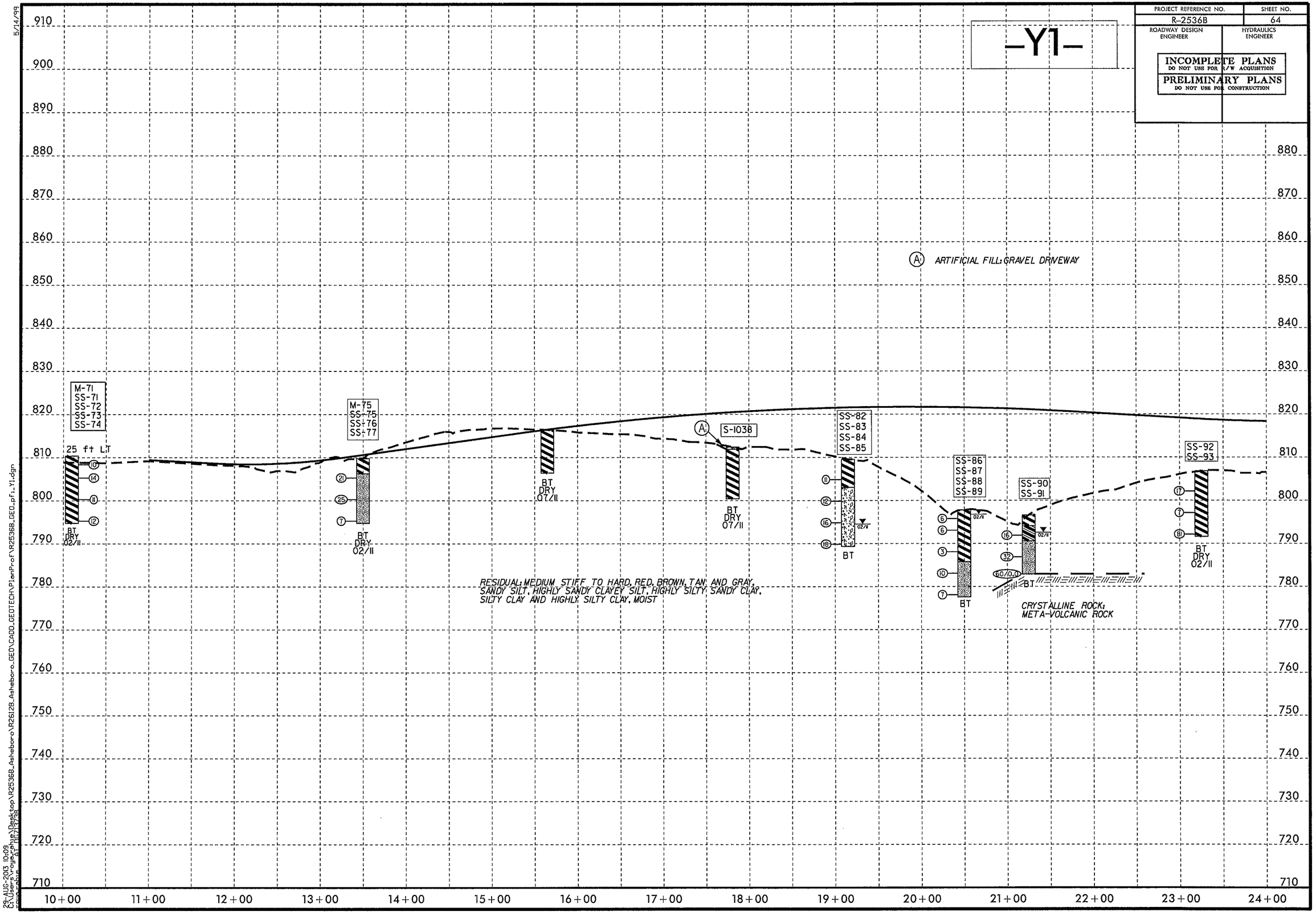
rogerphie, QUICKPLOT 7.28

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	64
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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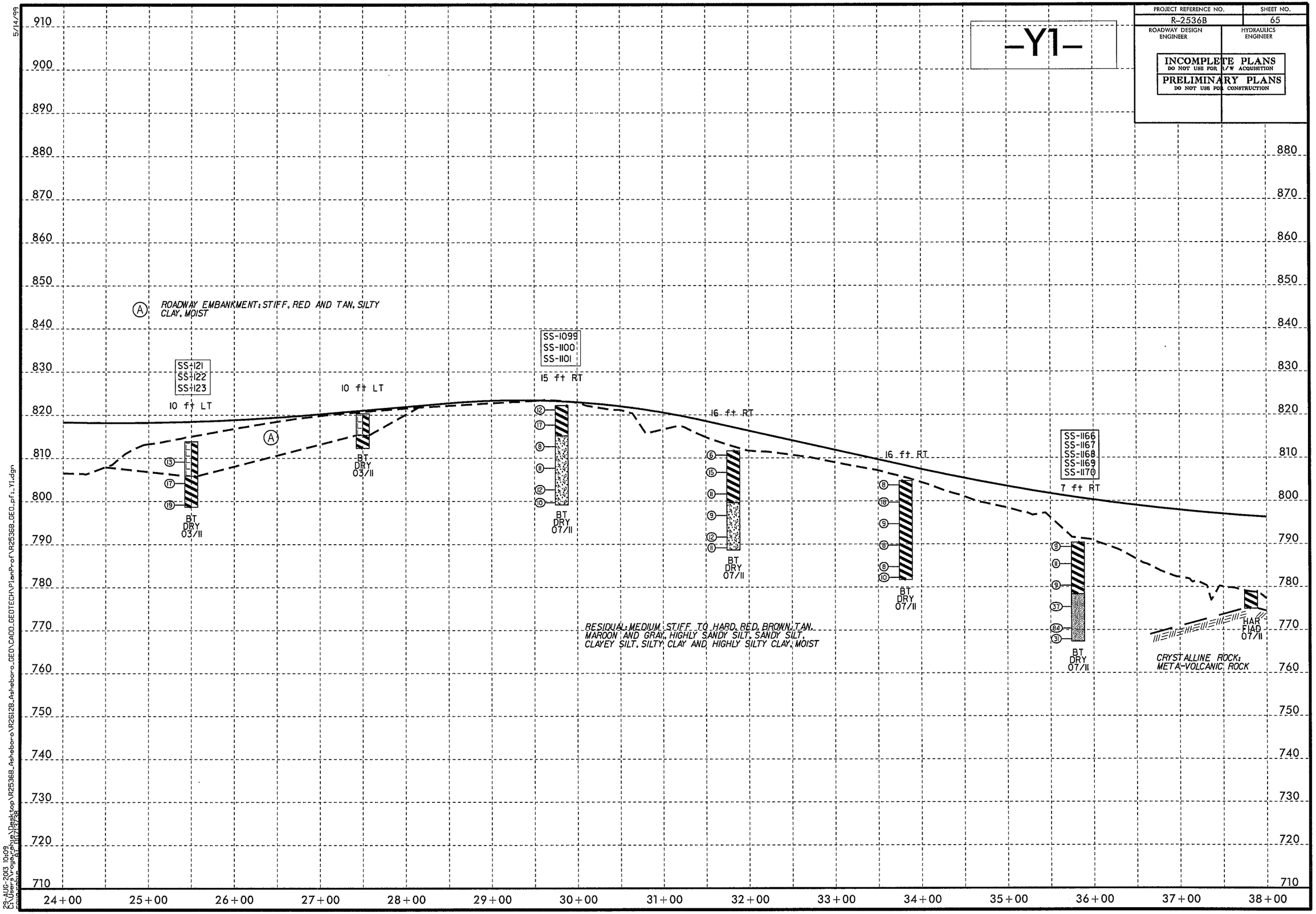
rogerphillips

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	65
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y1-



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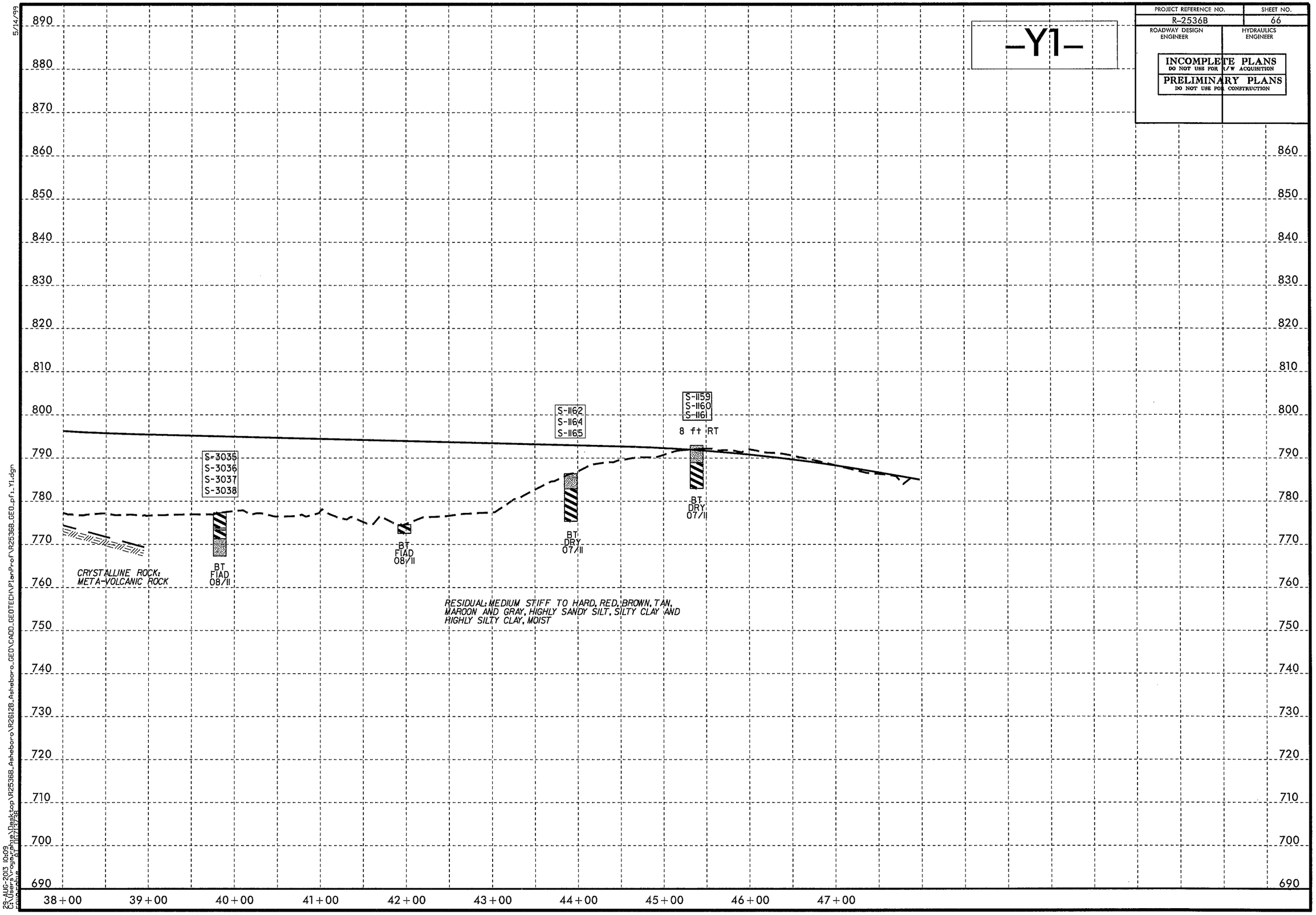
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	66
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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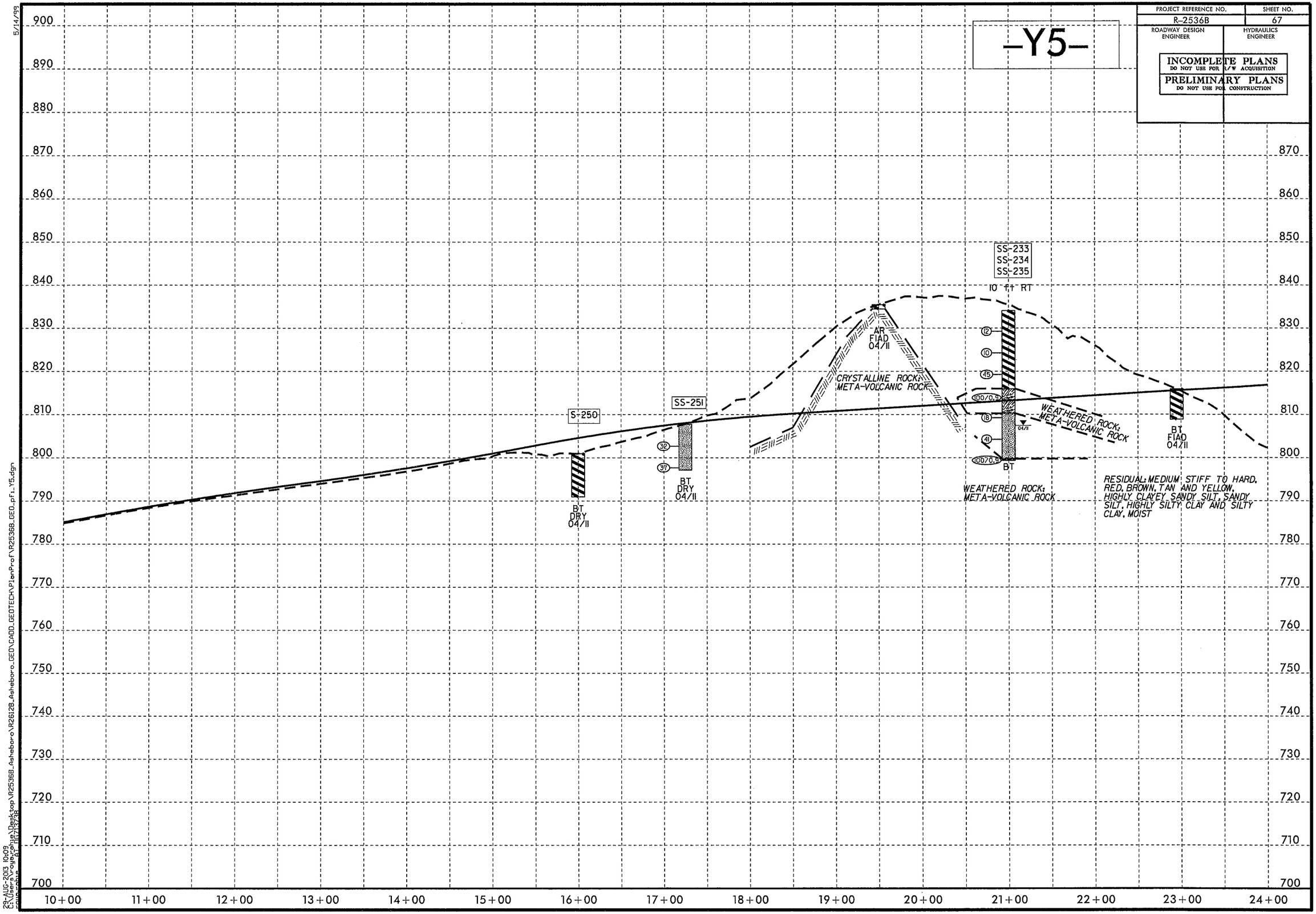
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	67
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y5-



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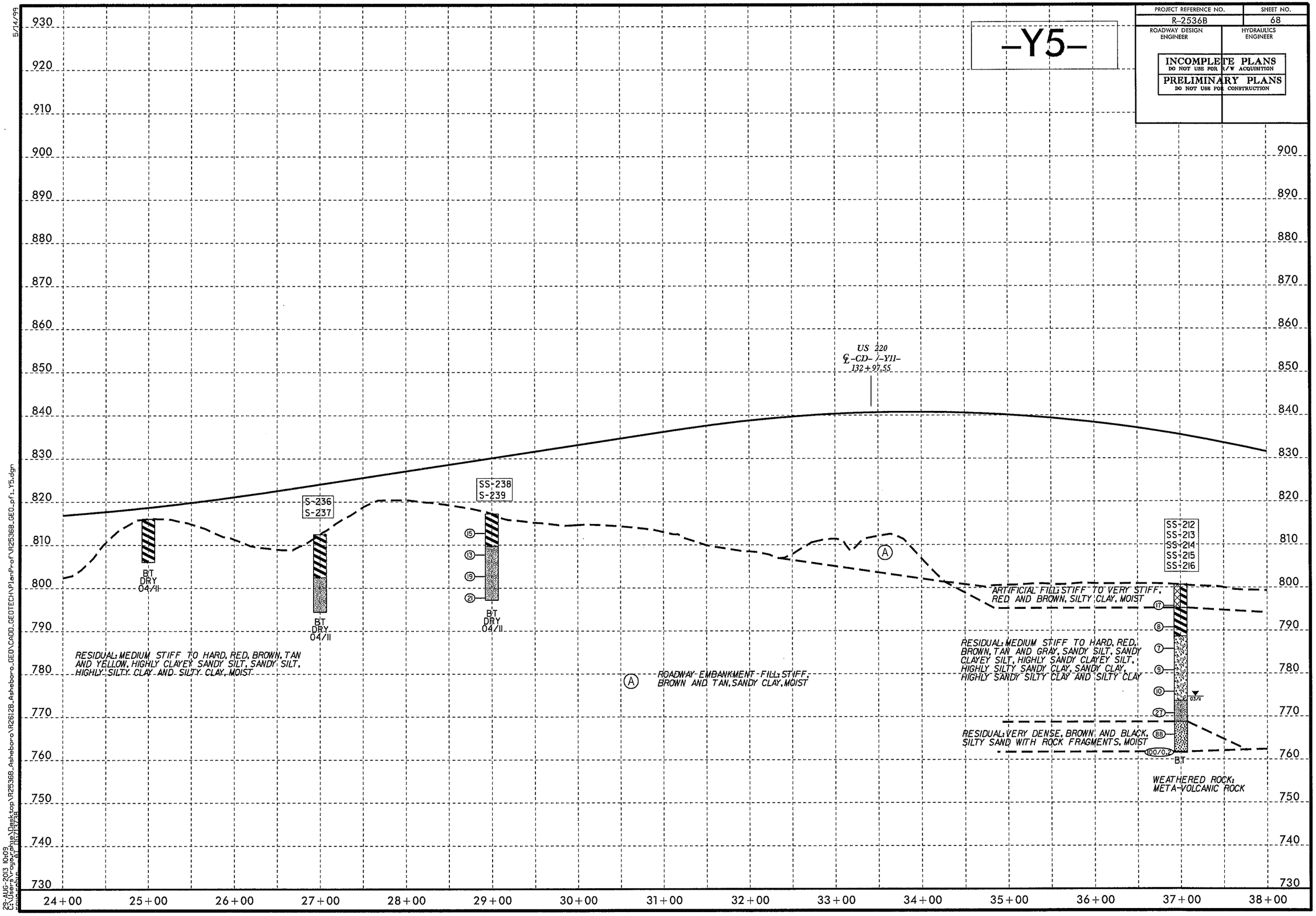
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	68
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y5-



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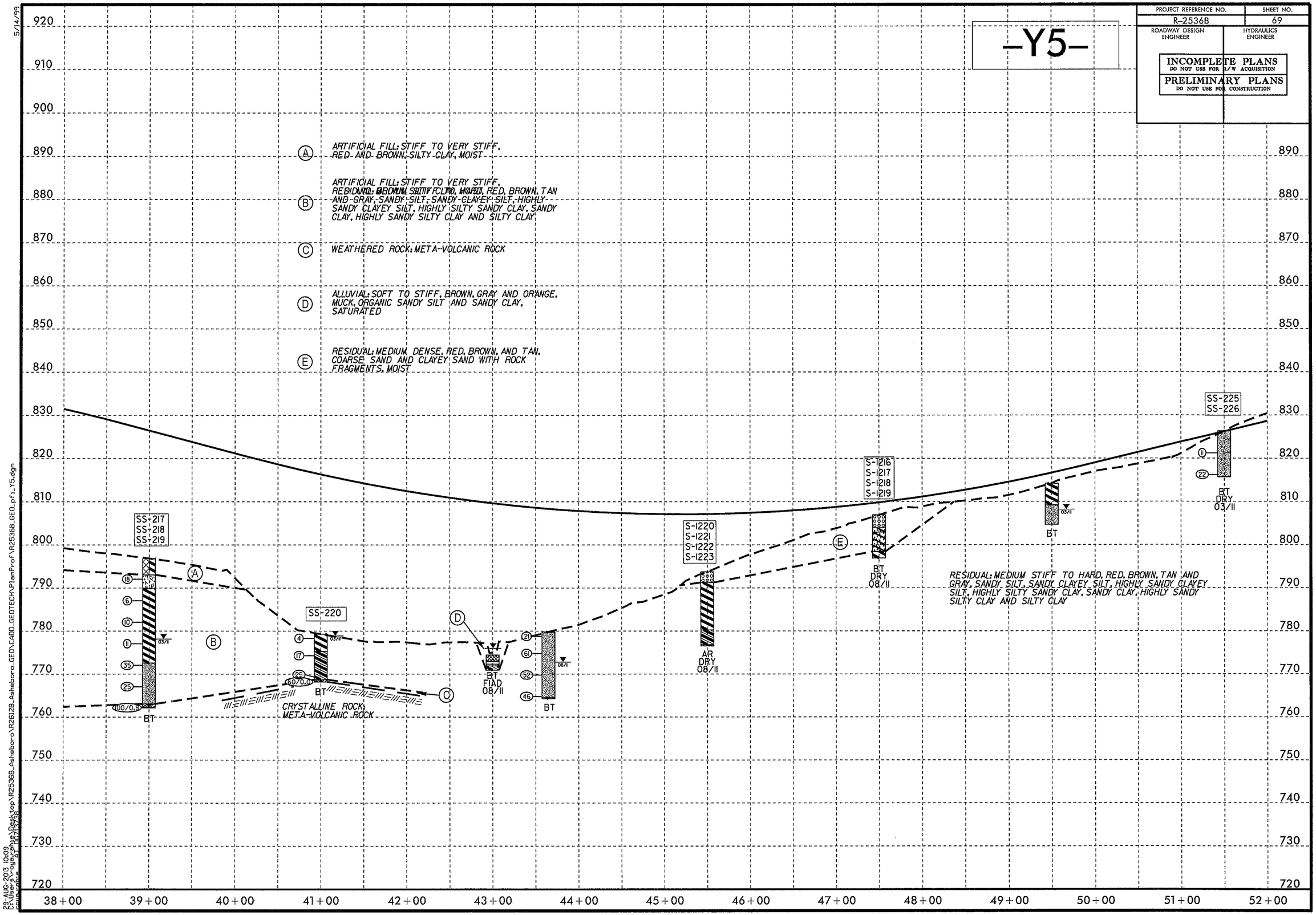
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	69
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y5-



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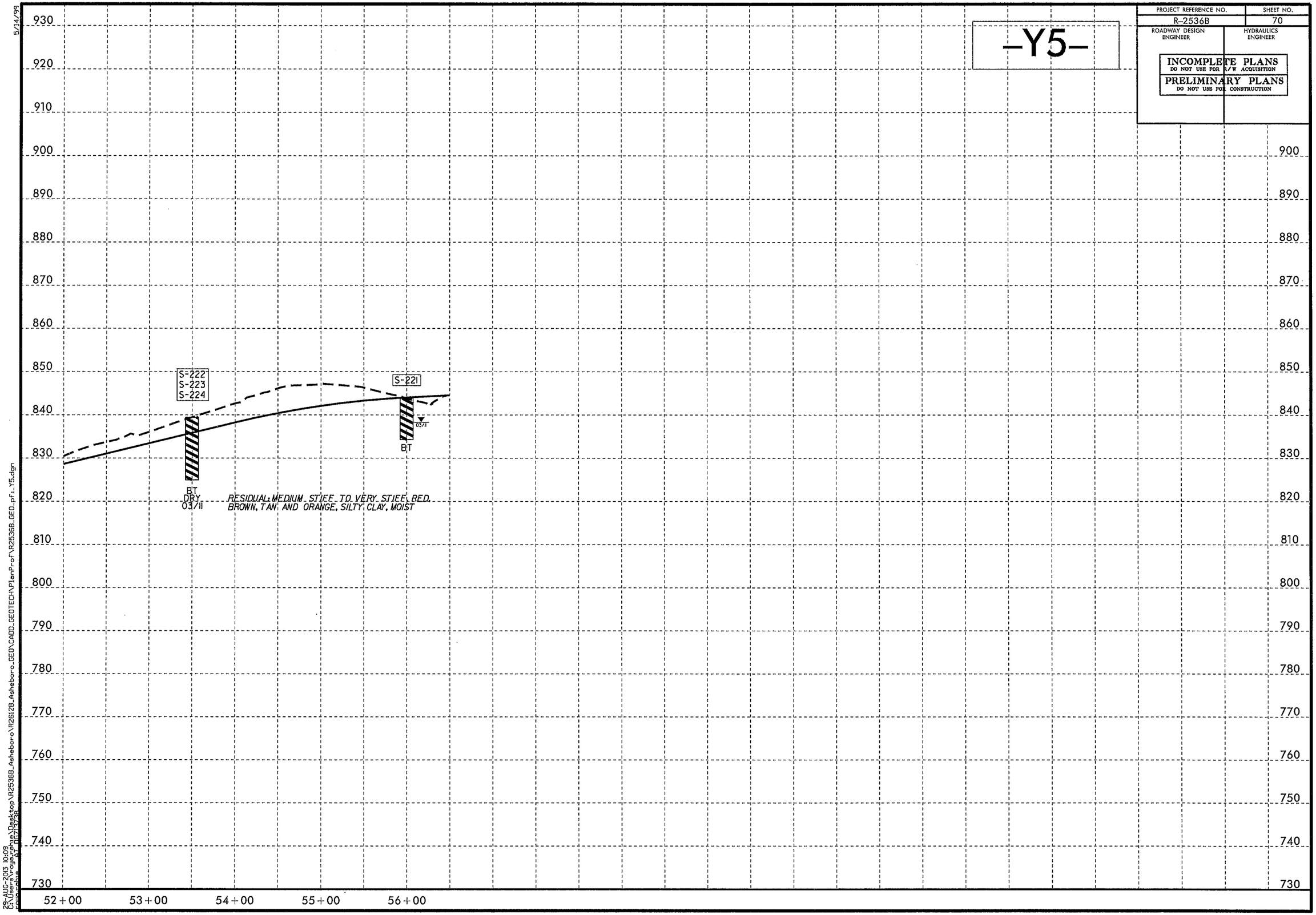
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	70
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y5-



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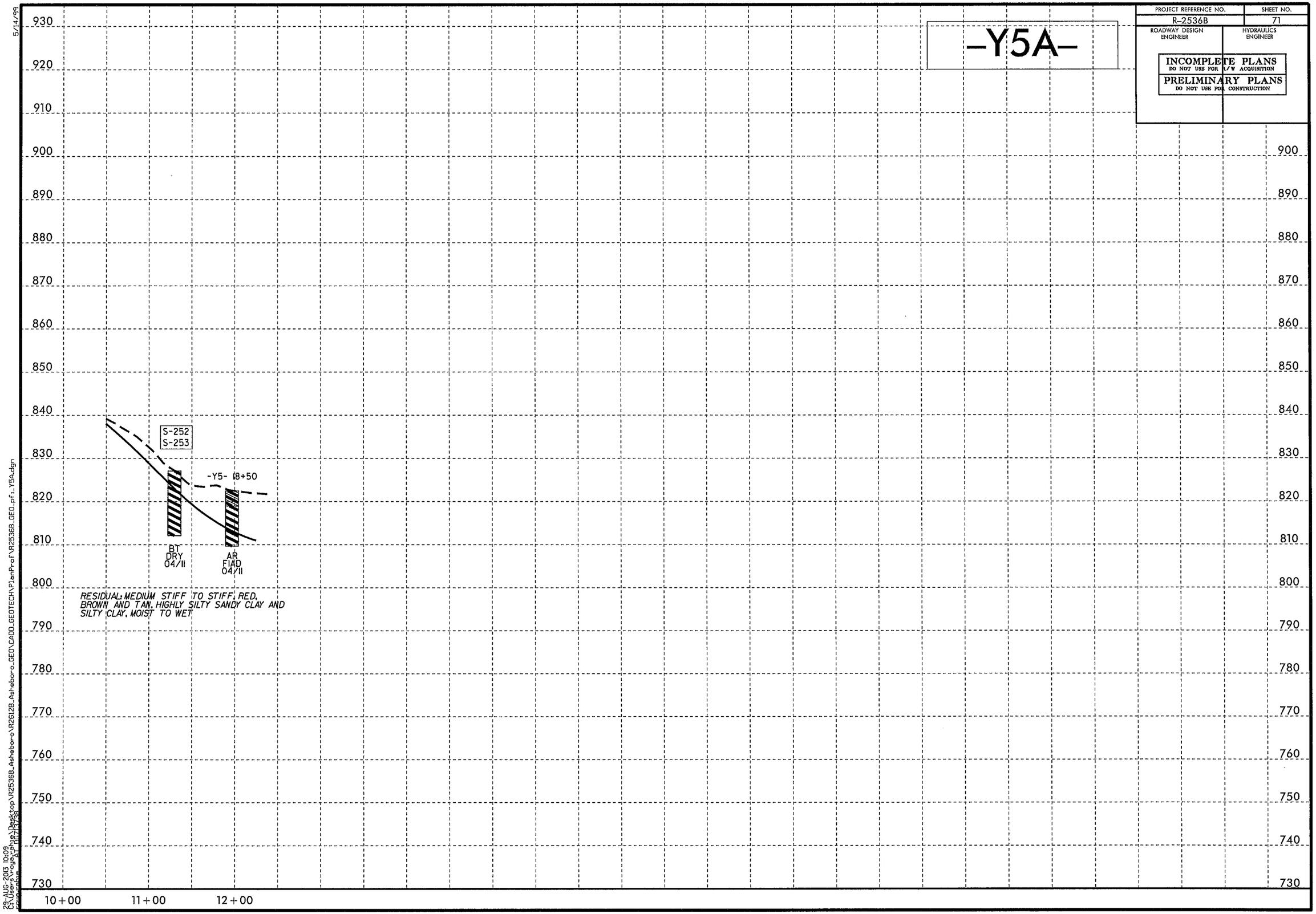
mmcrae 03/07/98

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	71
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y5A-



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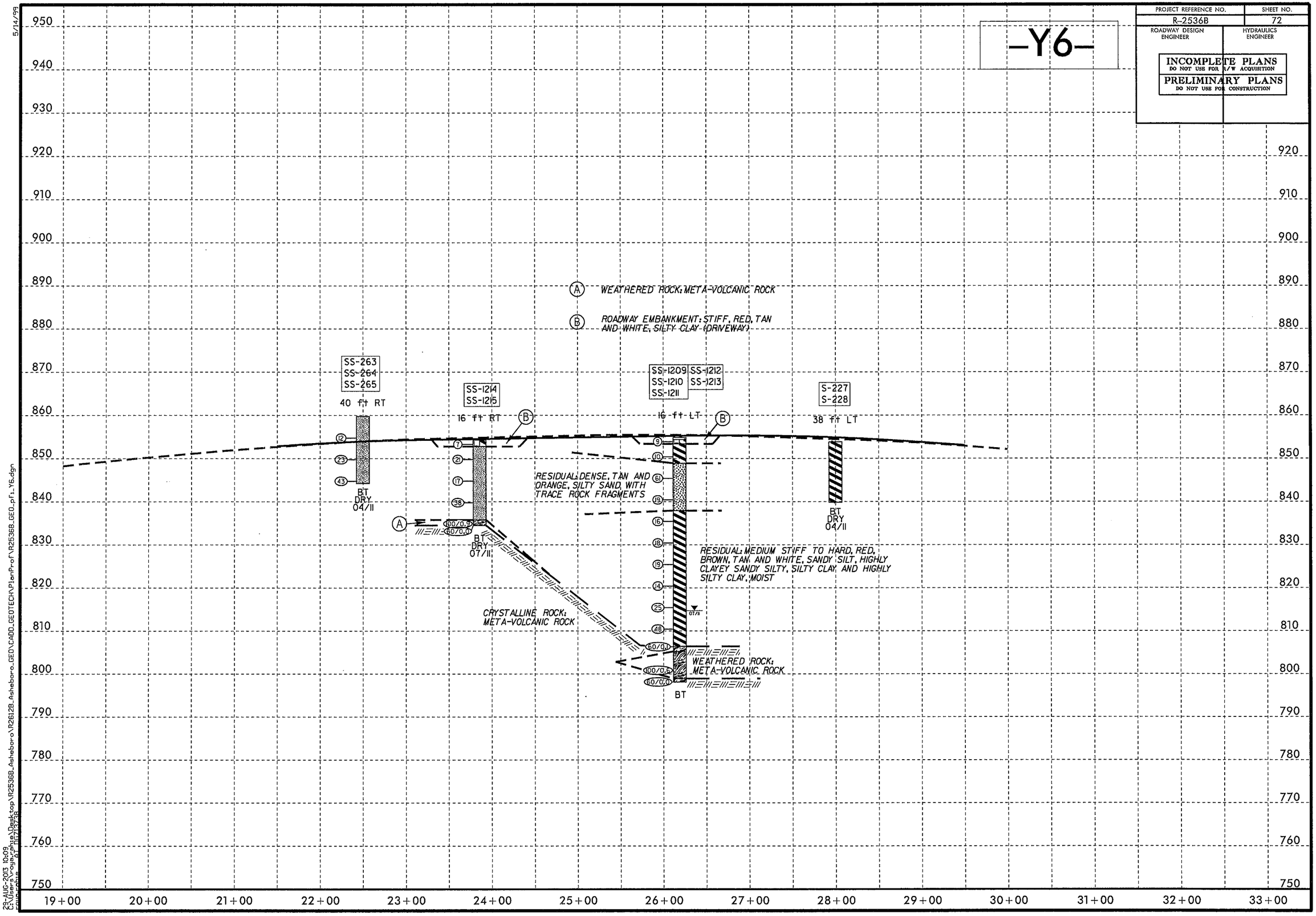
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	72
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y6-



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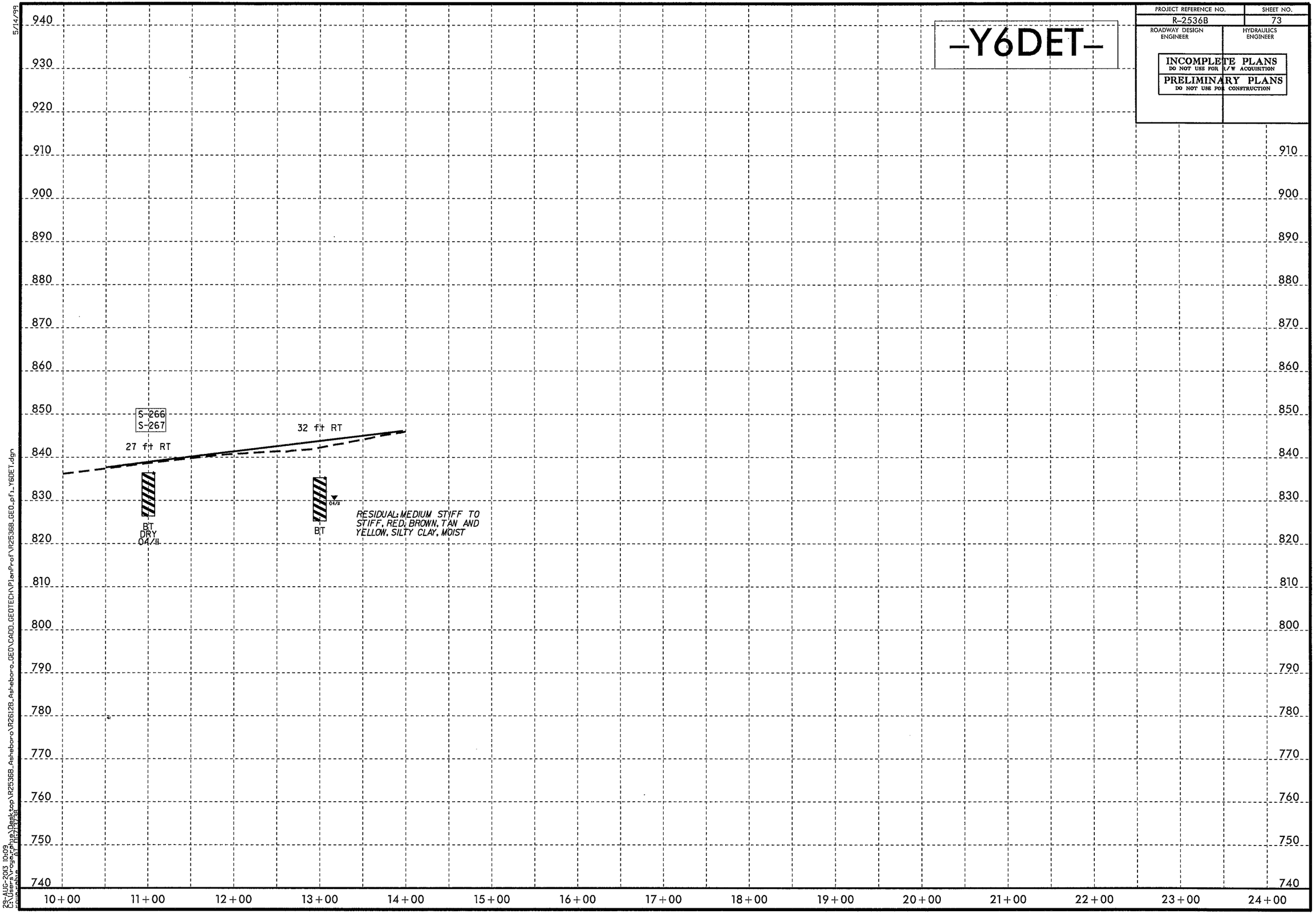
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	73
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y6DET-



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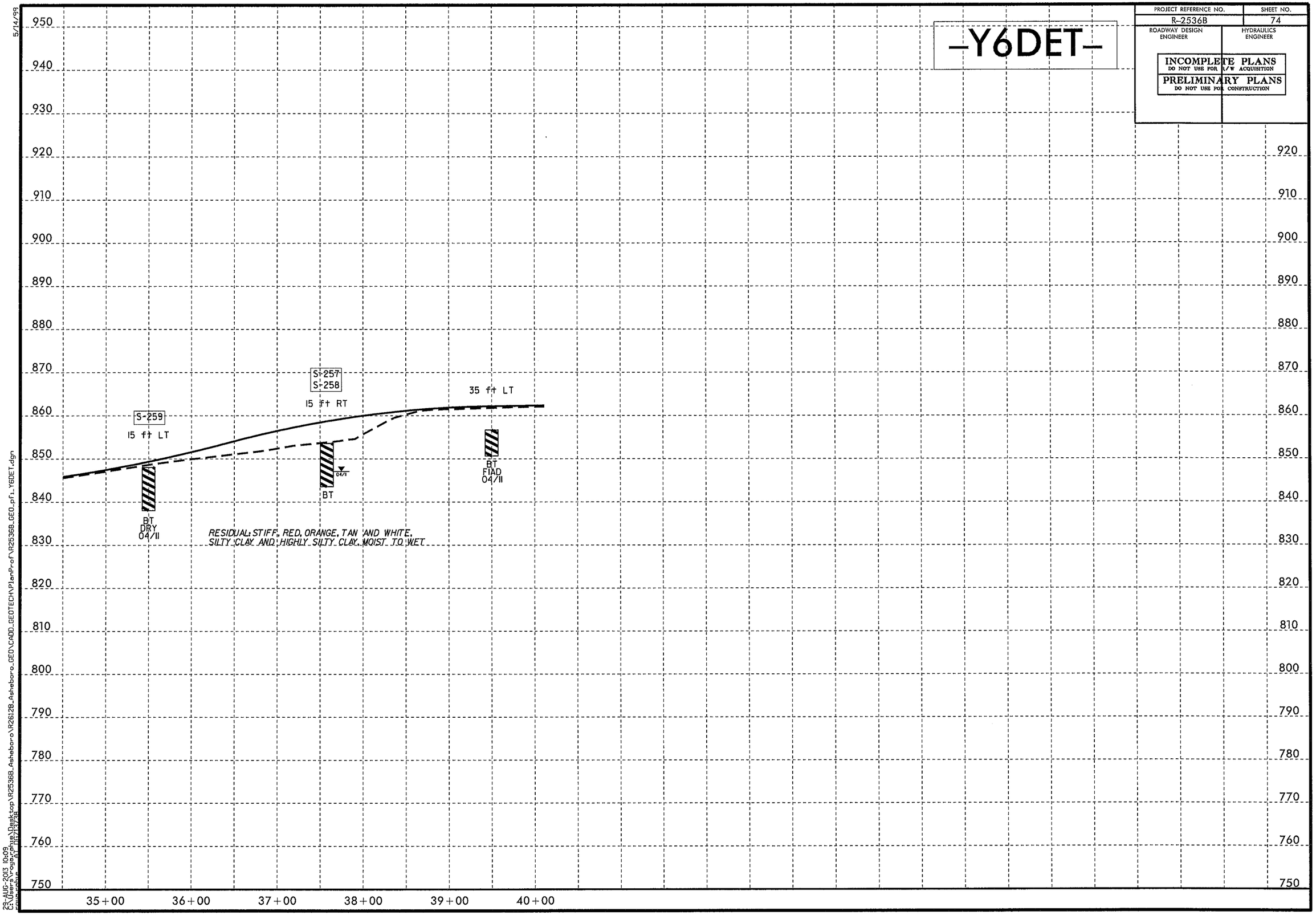
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	74
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y6DET-



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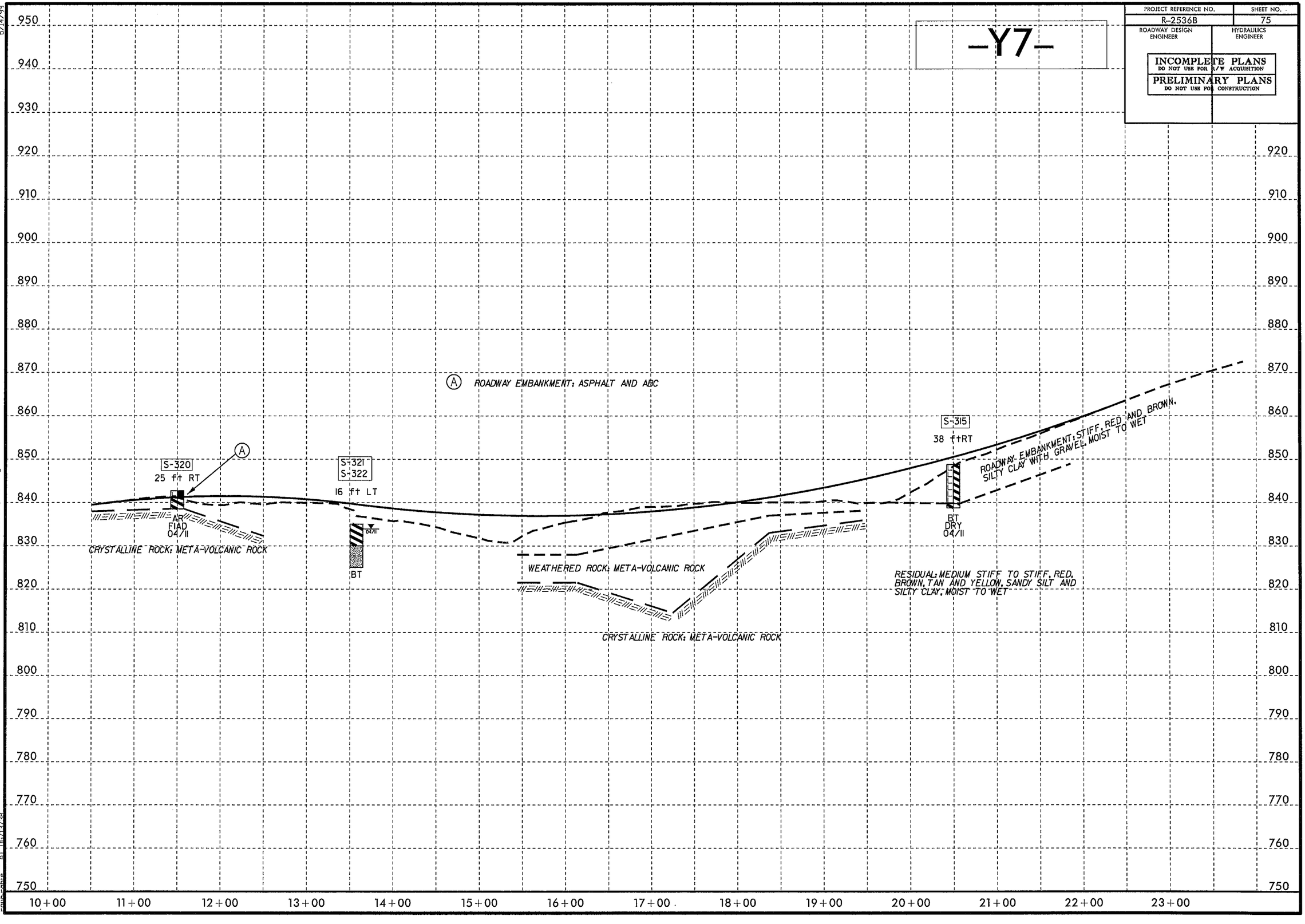
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	75
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y7-



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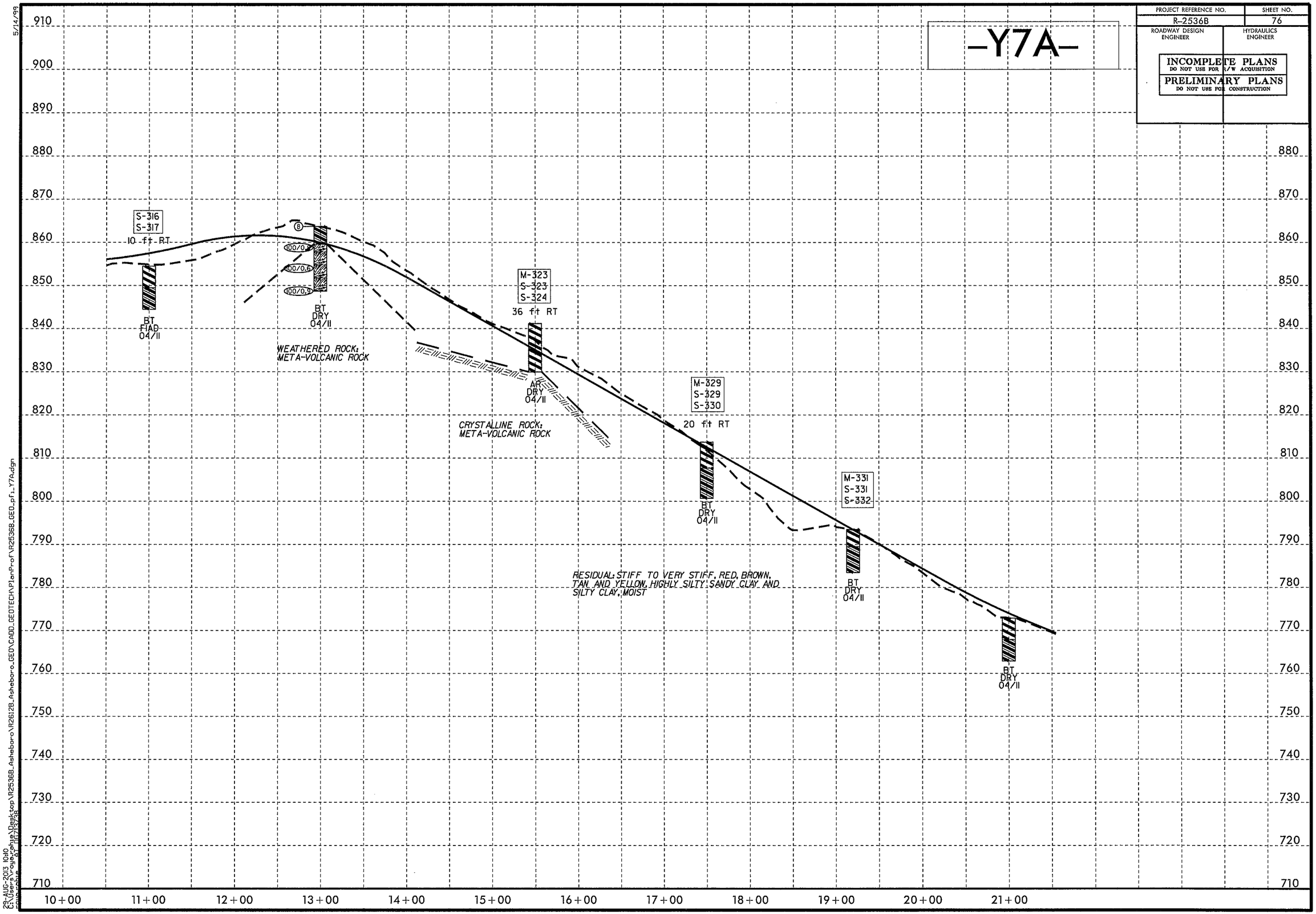
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	76
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y7A-



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23-AUG-2013 10:10
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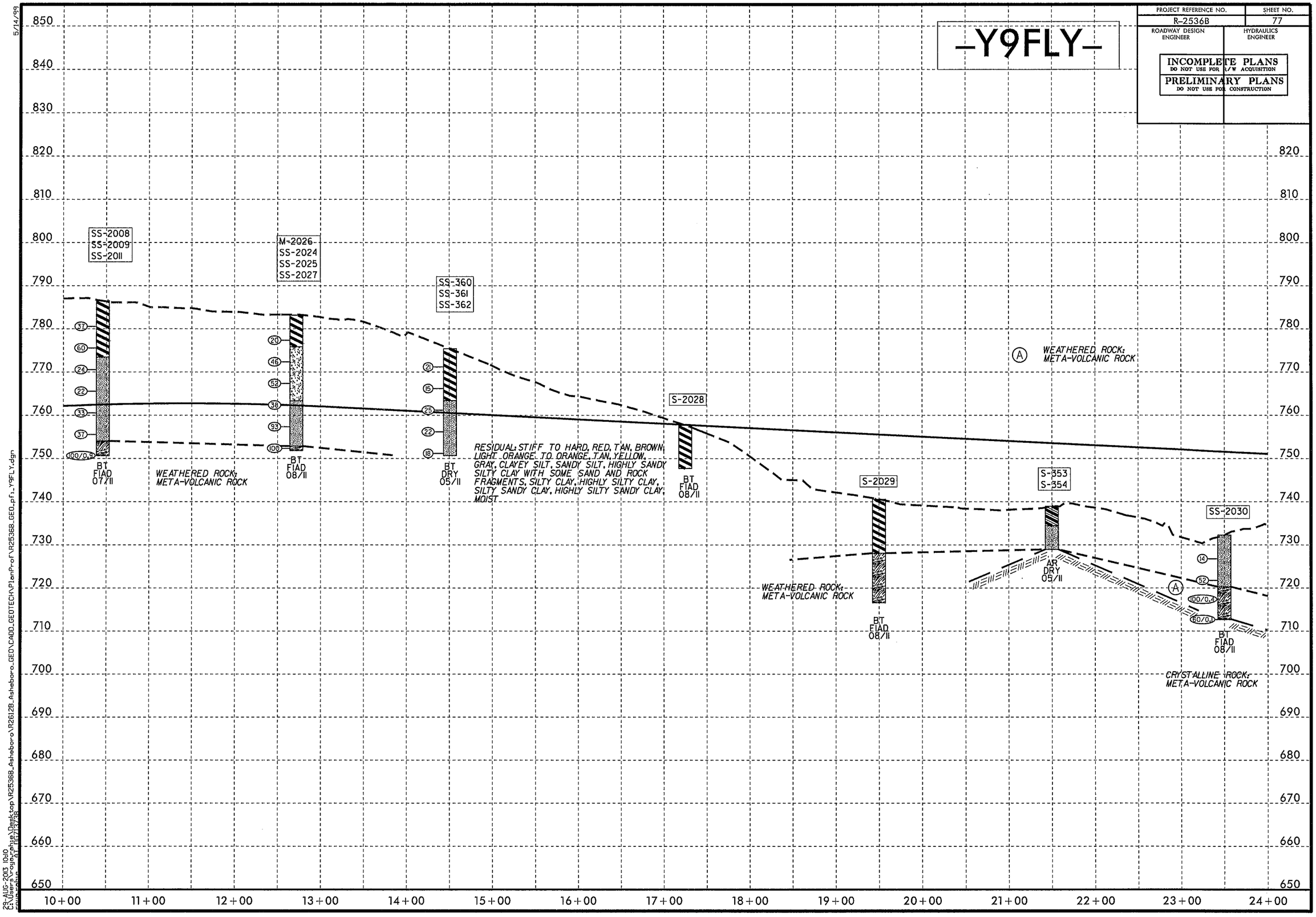
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	77
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y9FLY-



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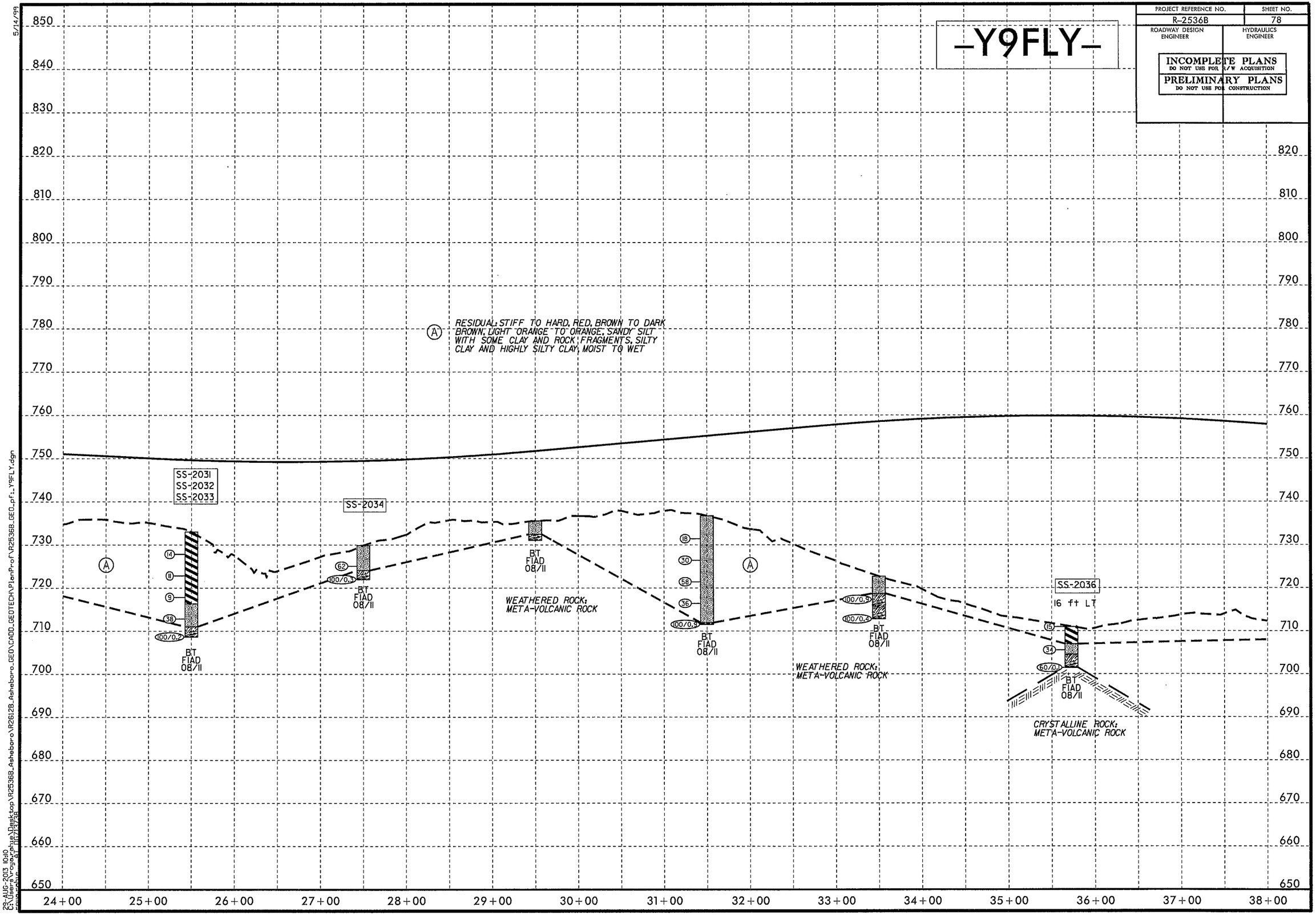
rpphelps 8/21/2013

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	78
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y9FLY-



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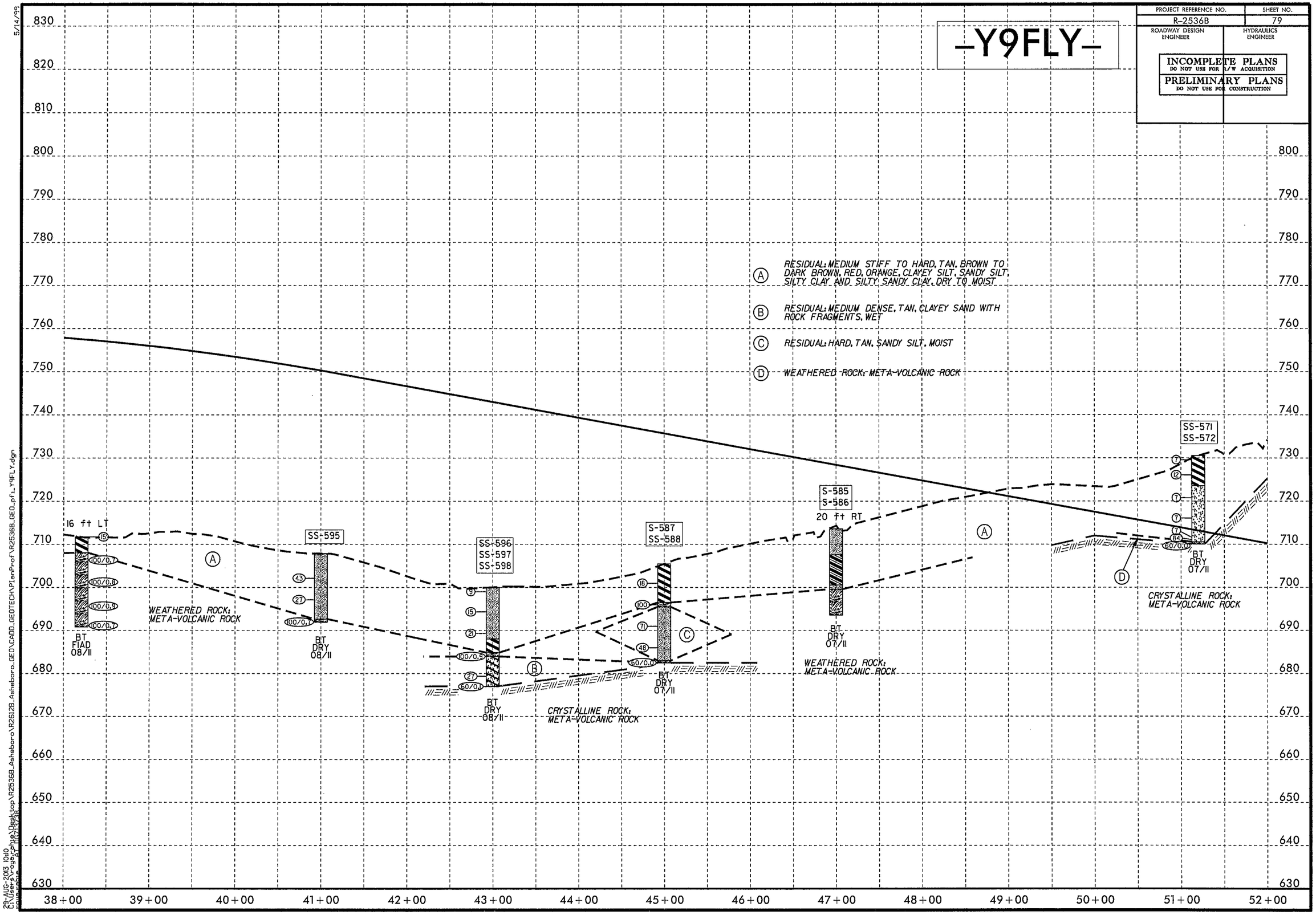
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	79
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y9FLY-



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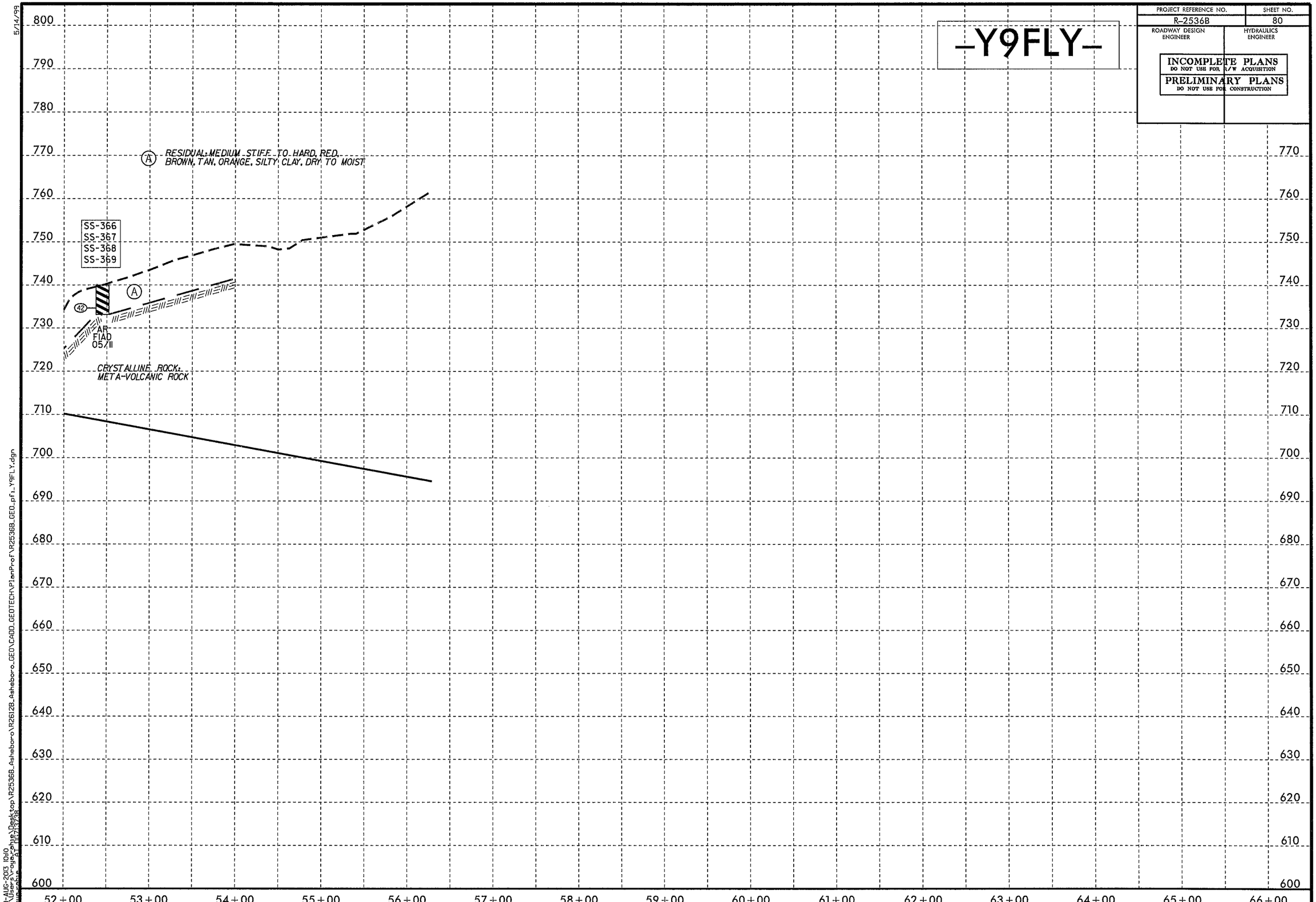
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	80
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y9FLY-



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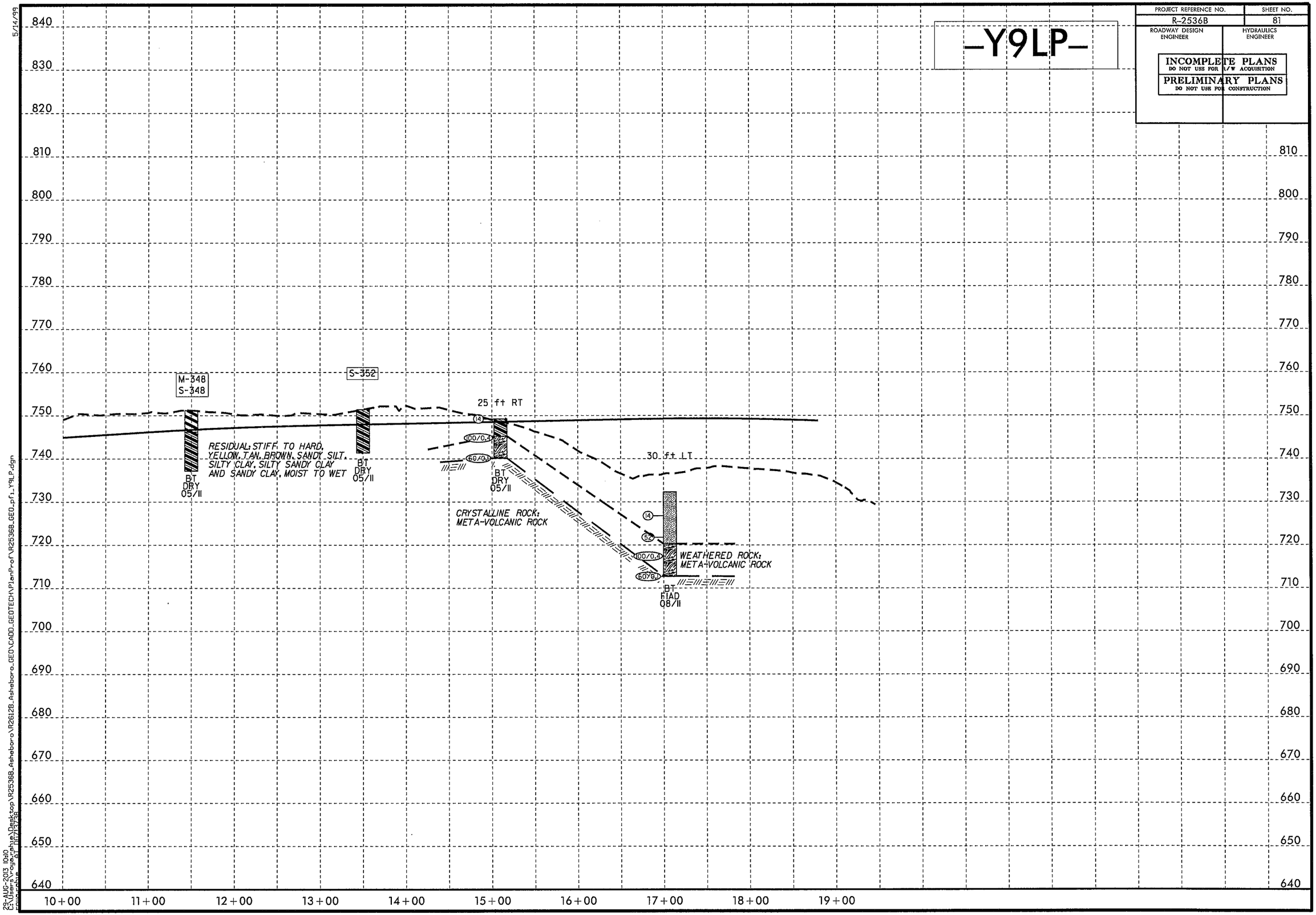
Asheboro_Plan_Prof_Y9FLY

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	81
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y9LP-



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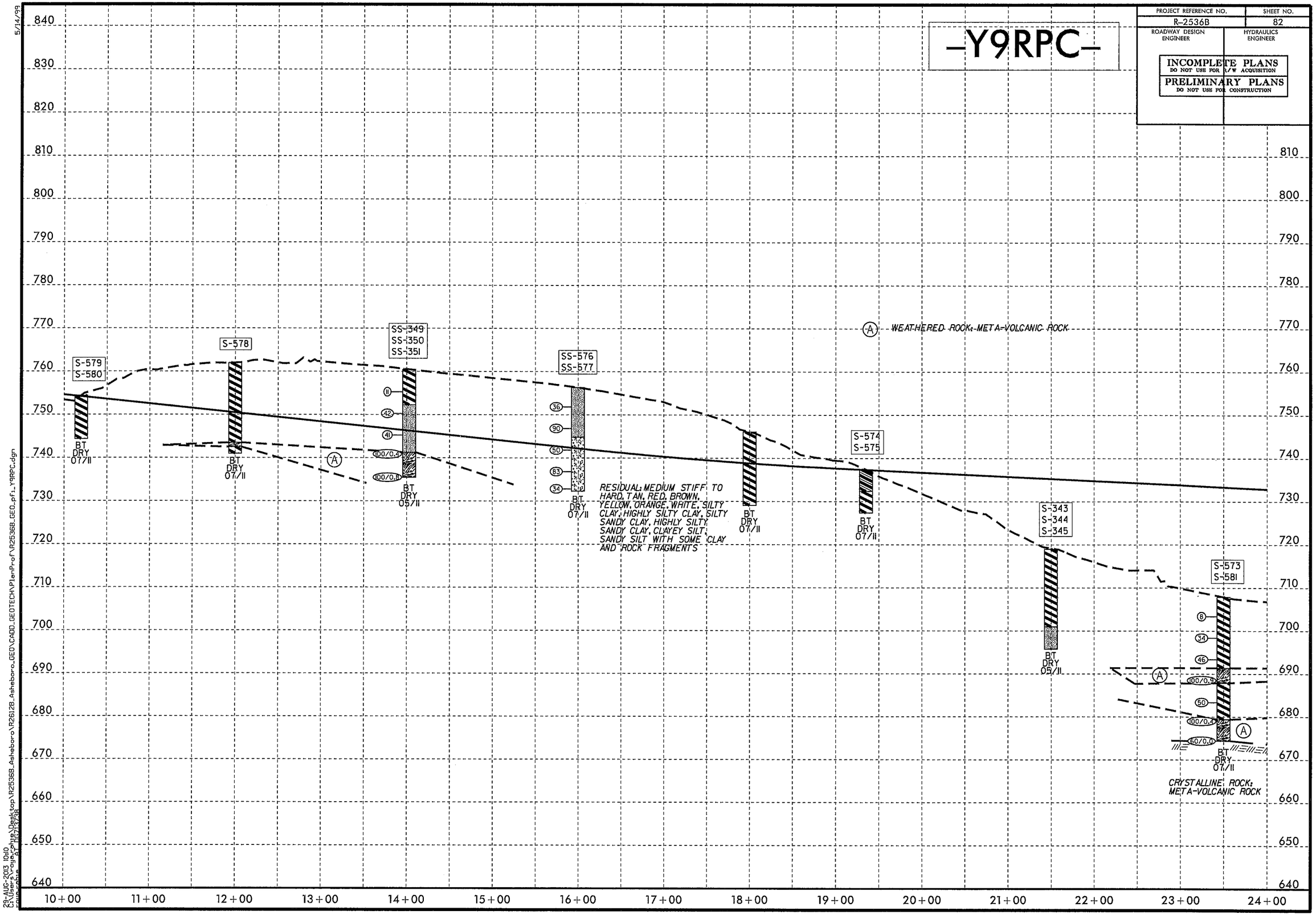
mwb.cnfg

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	82
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y9RPC-



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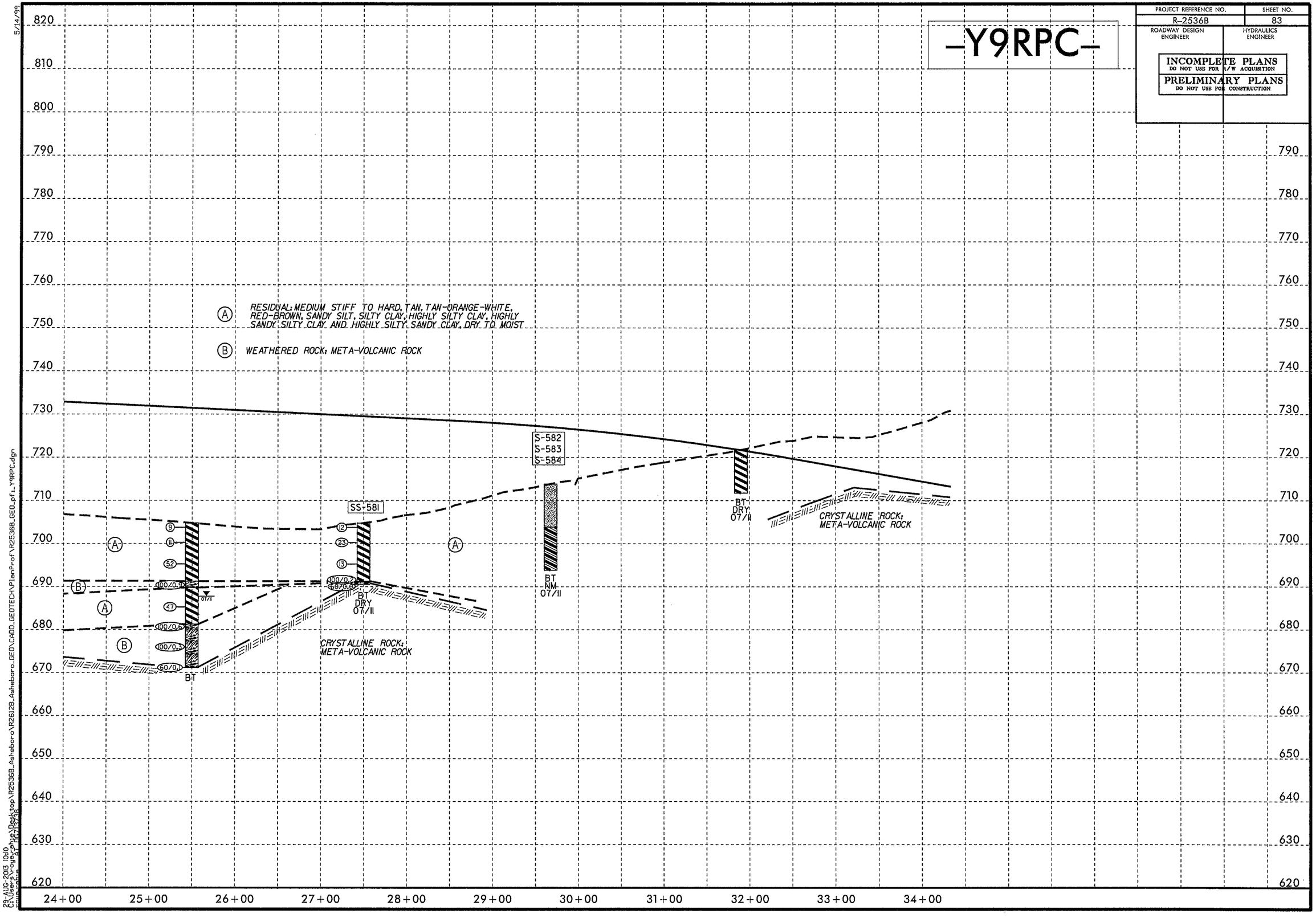
mrogerphine

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	83
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y9RPC-



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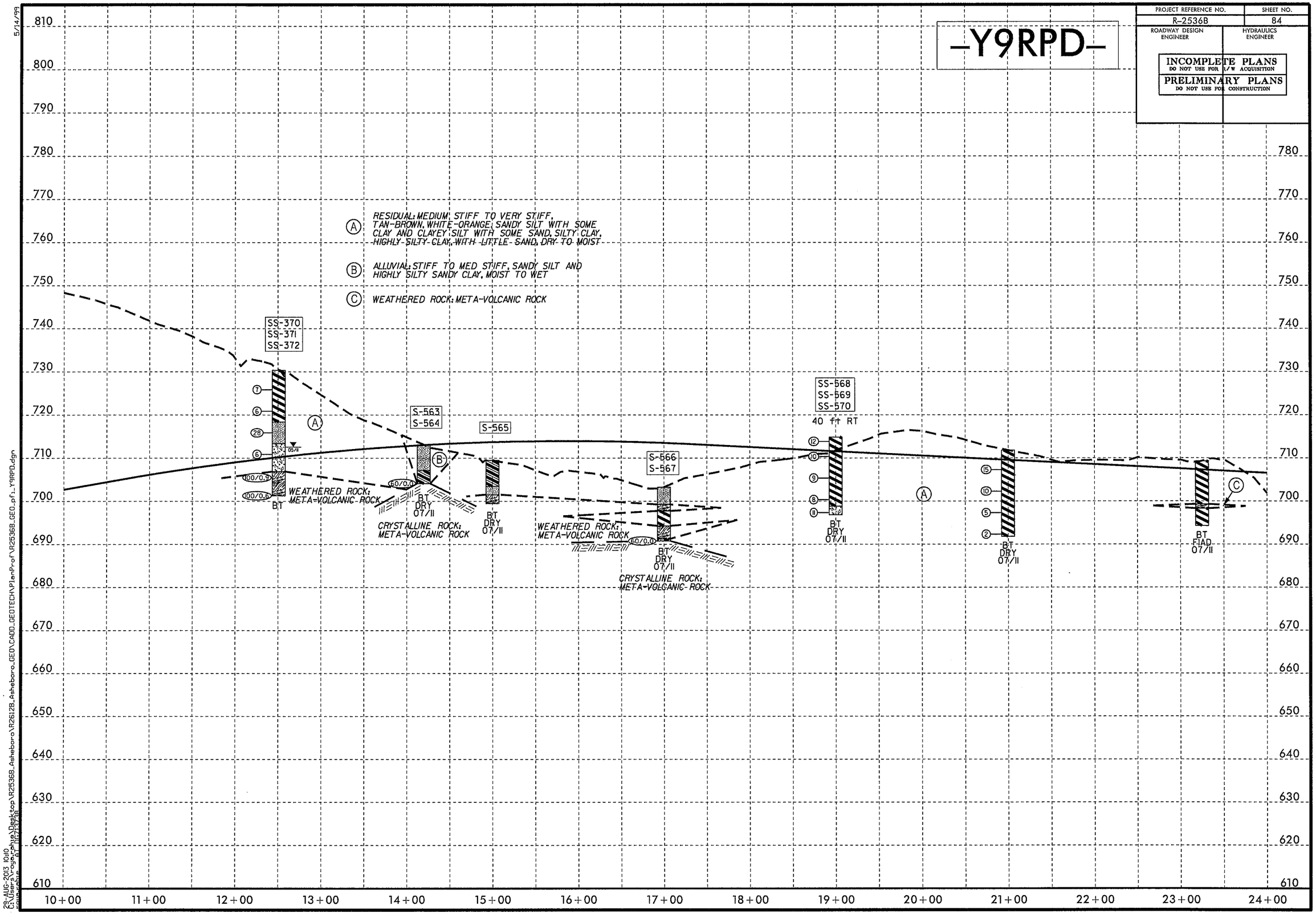
mpwphillips 21.00.00.28

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	84
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y9RPD-



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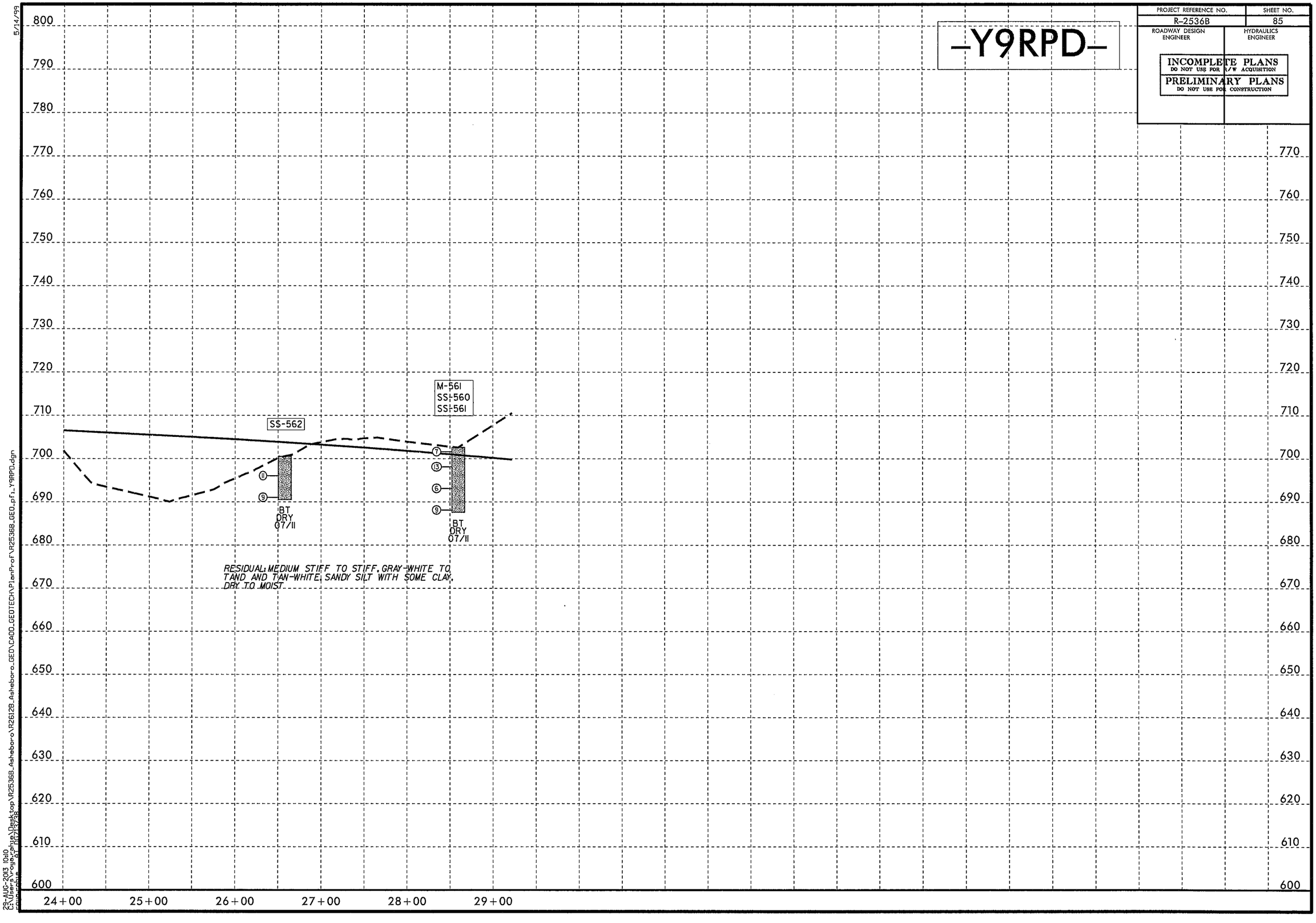
mmichie AT 07/11/28

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	85
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y9RPD-



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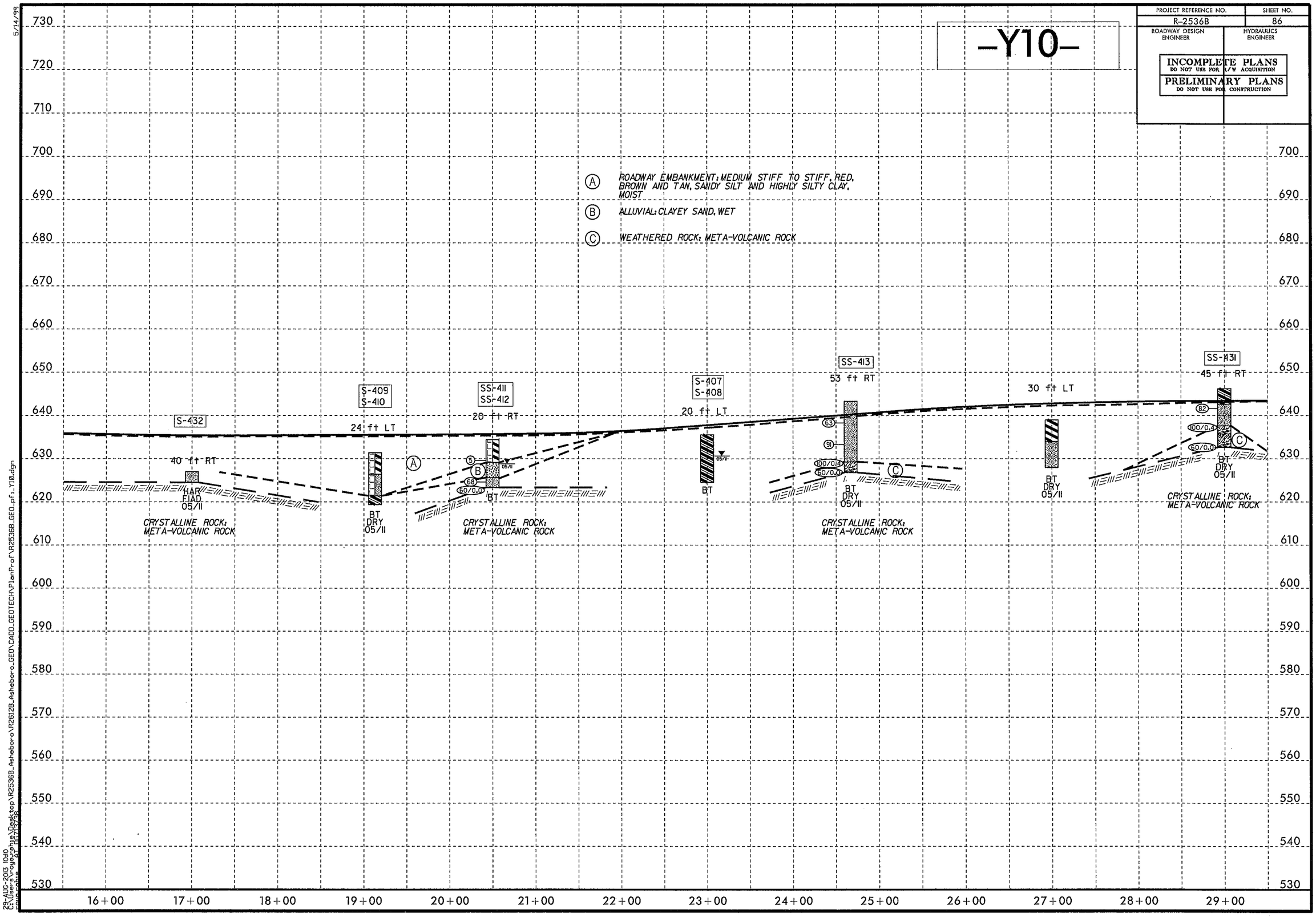
mwpayne

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	86
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y10-



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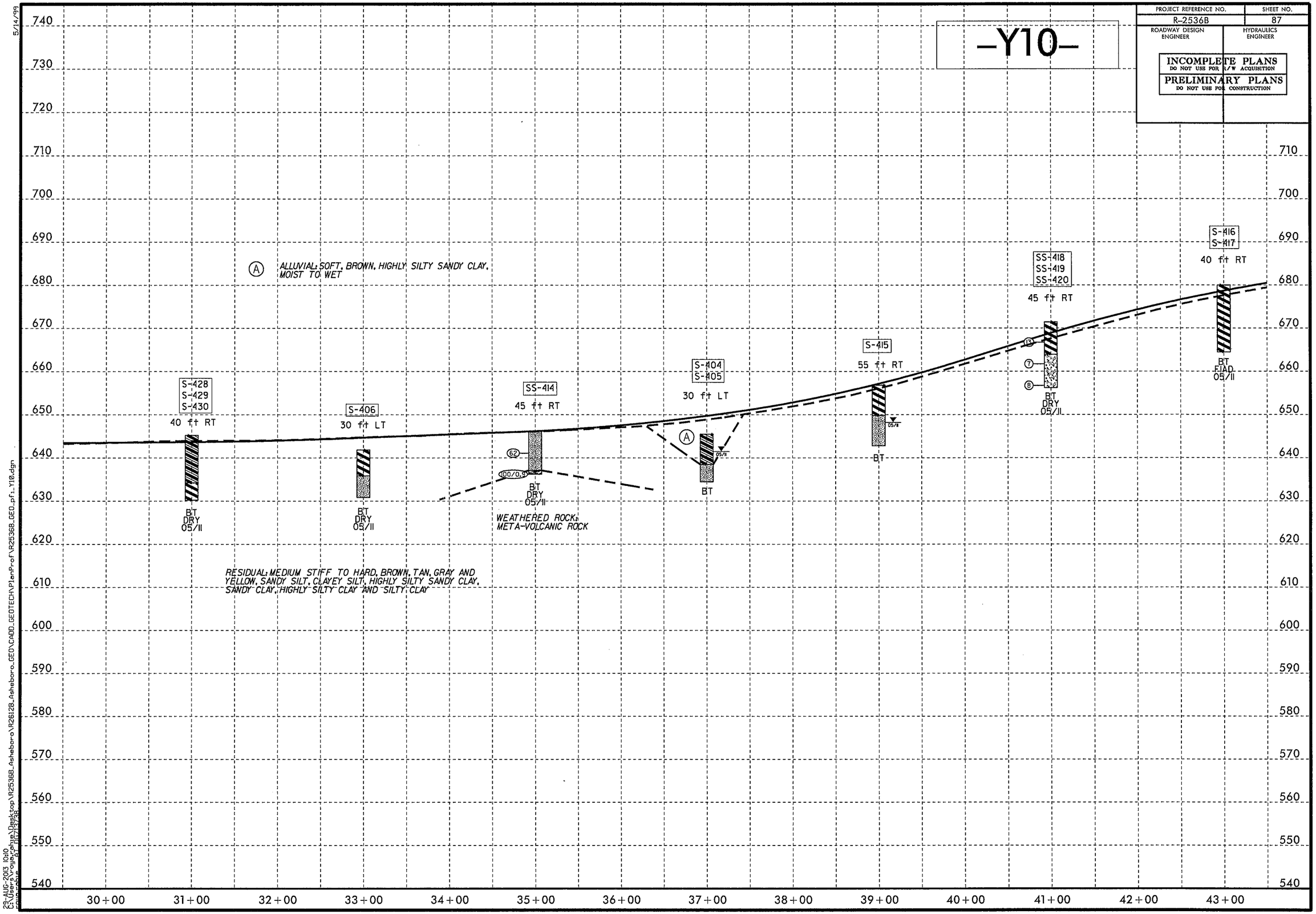
rouguchie

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	87
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y10-



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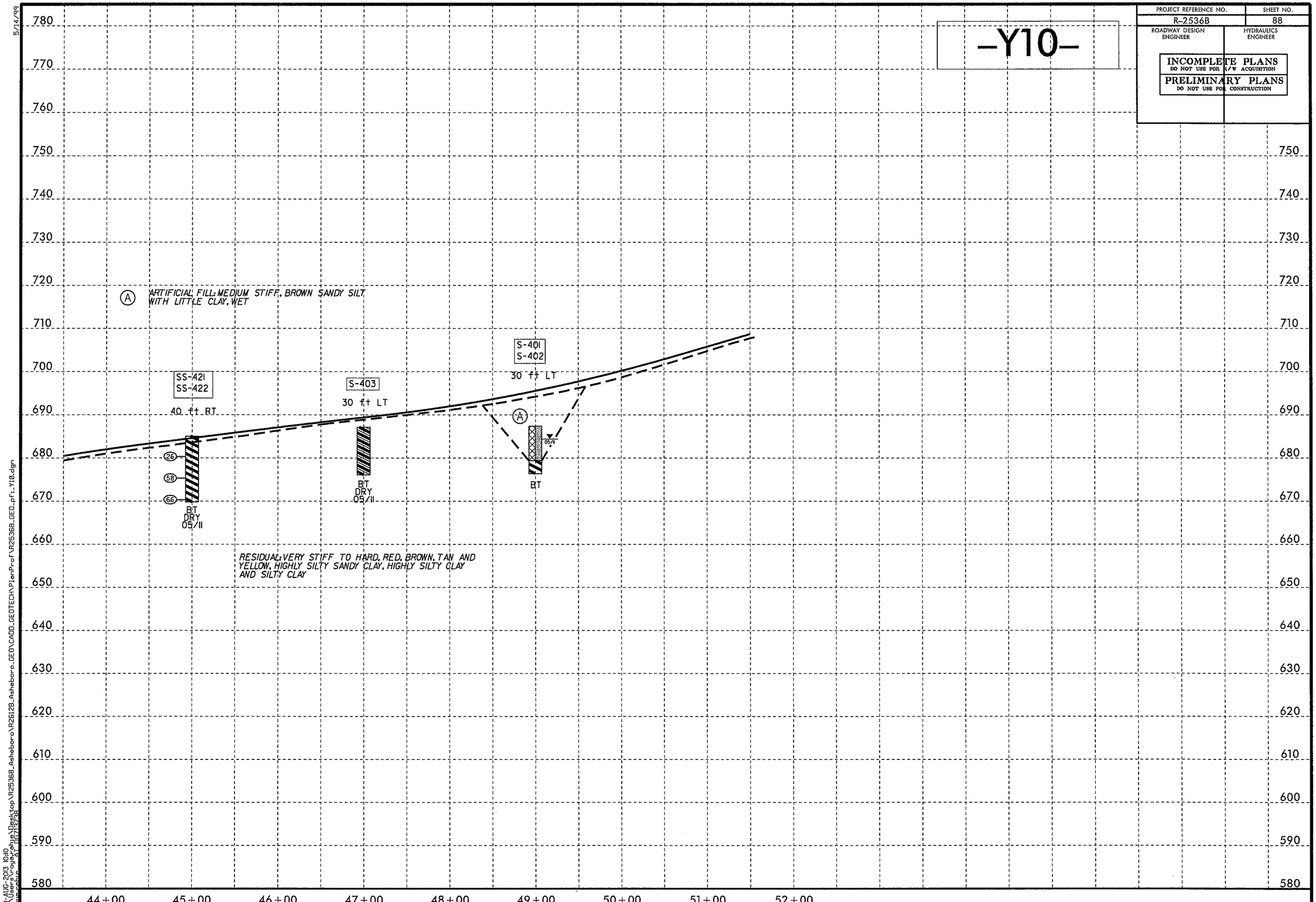
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	88
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y10-



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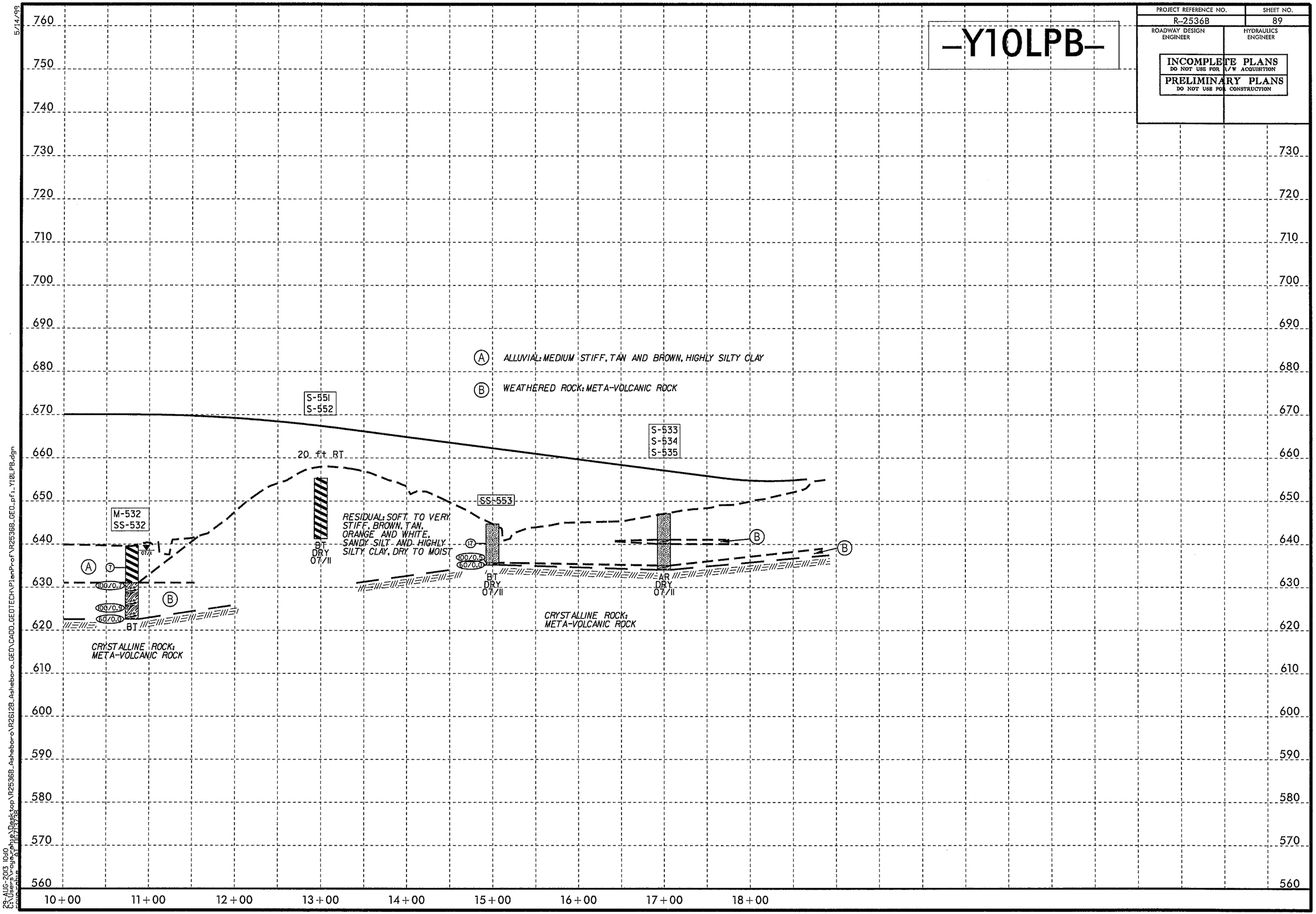
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	89
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y10LPB-



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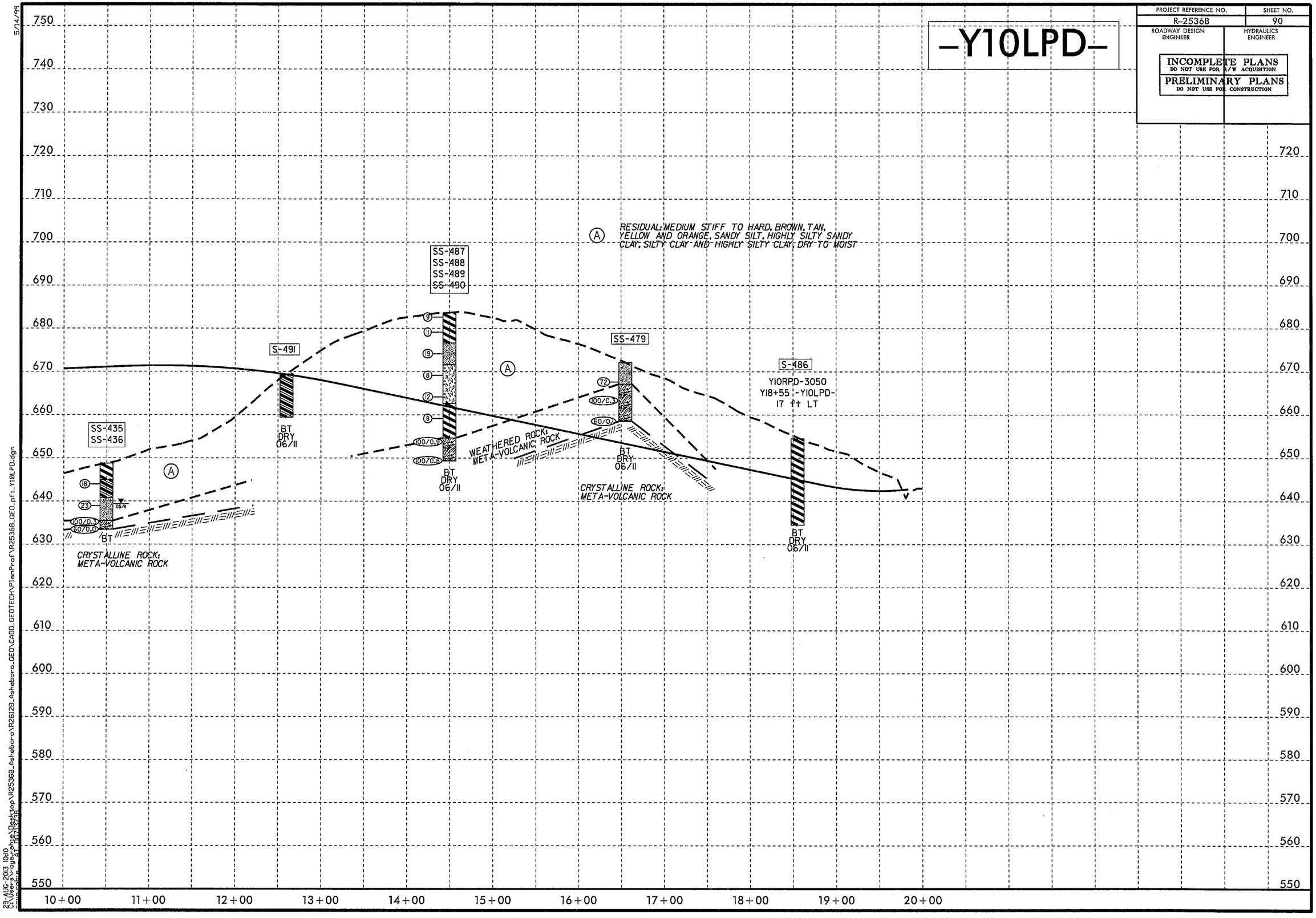
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	90
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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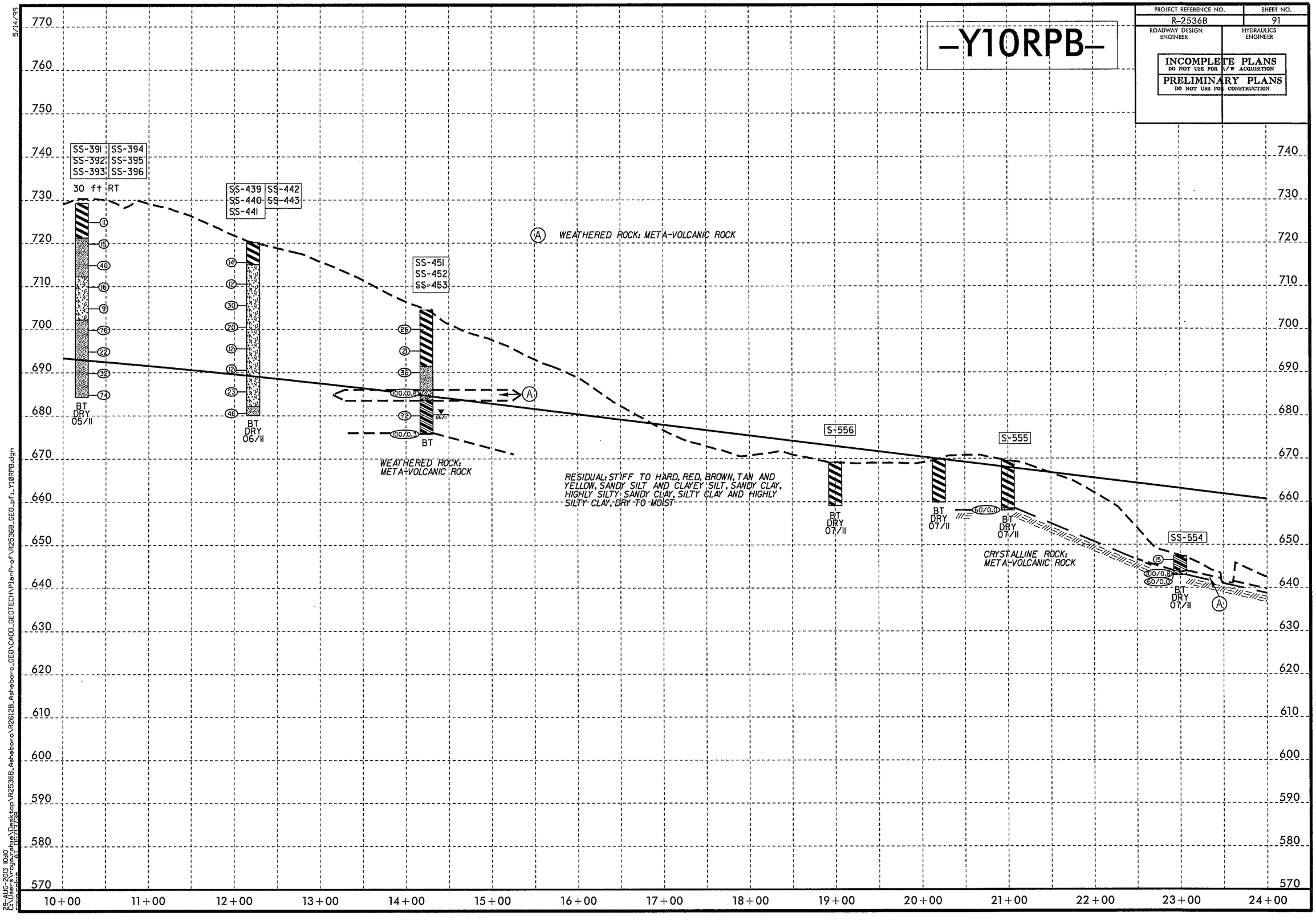
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	91
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y10RPB-



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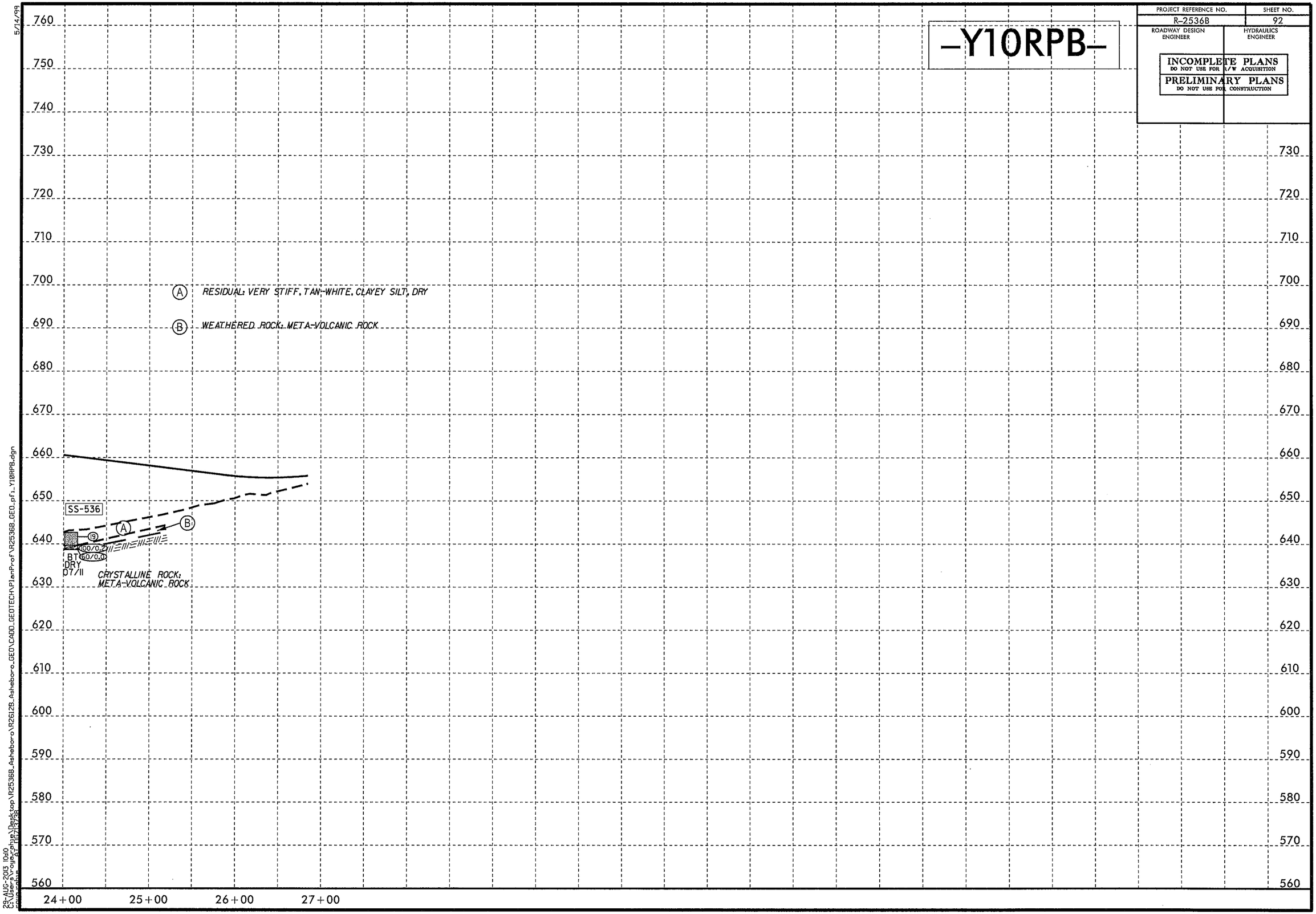
mwcunr 21.0(R13)/28

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	92
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y10RPB-



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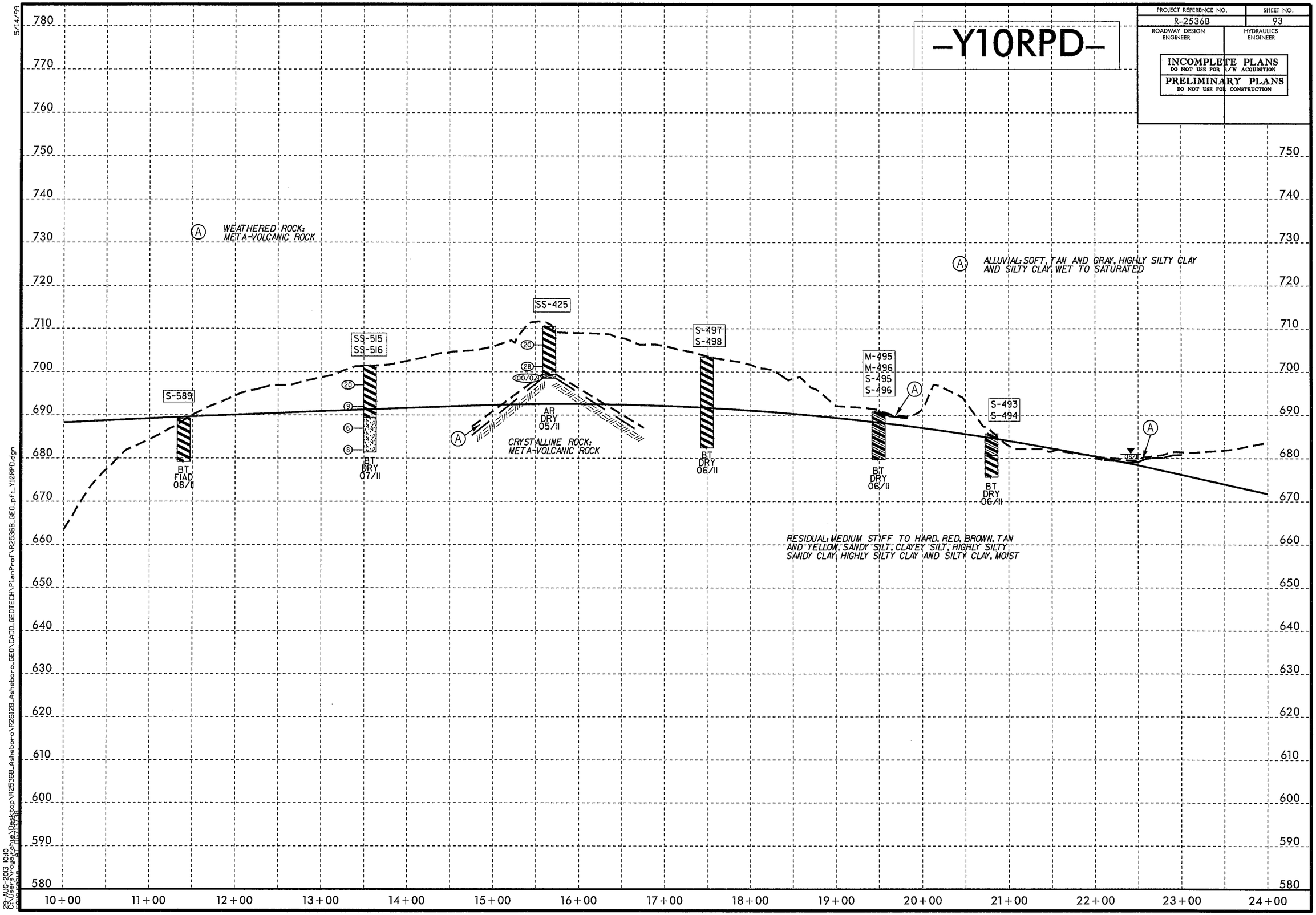
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	93
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y10RPD-



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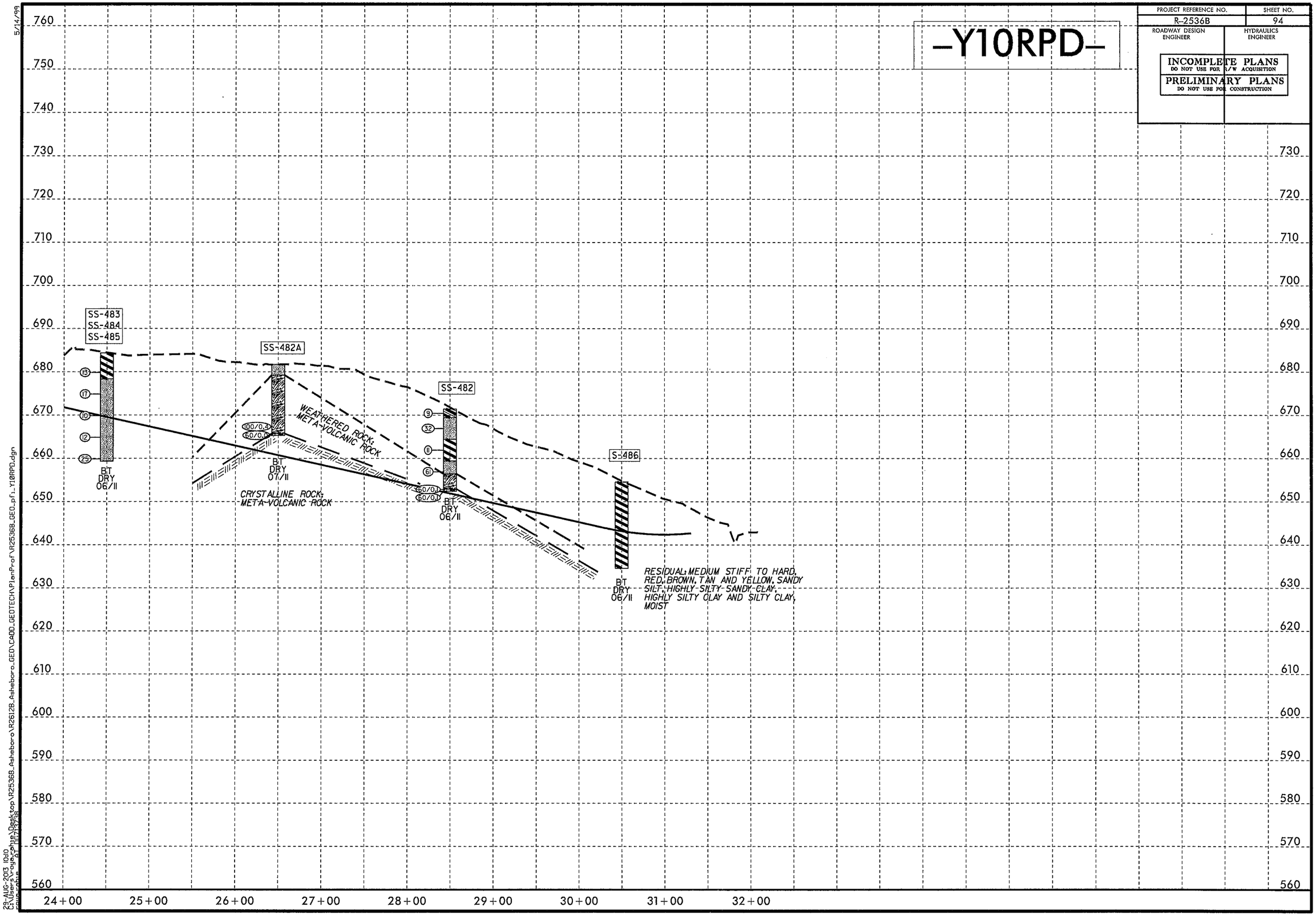
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	94
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y10RPD-



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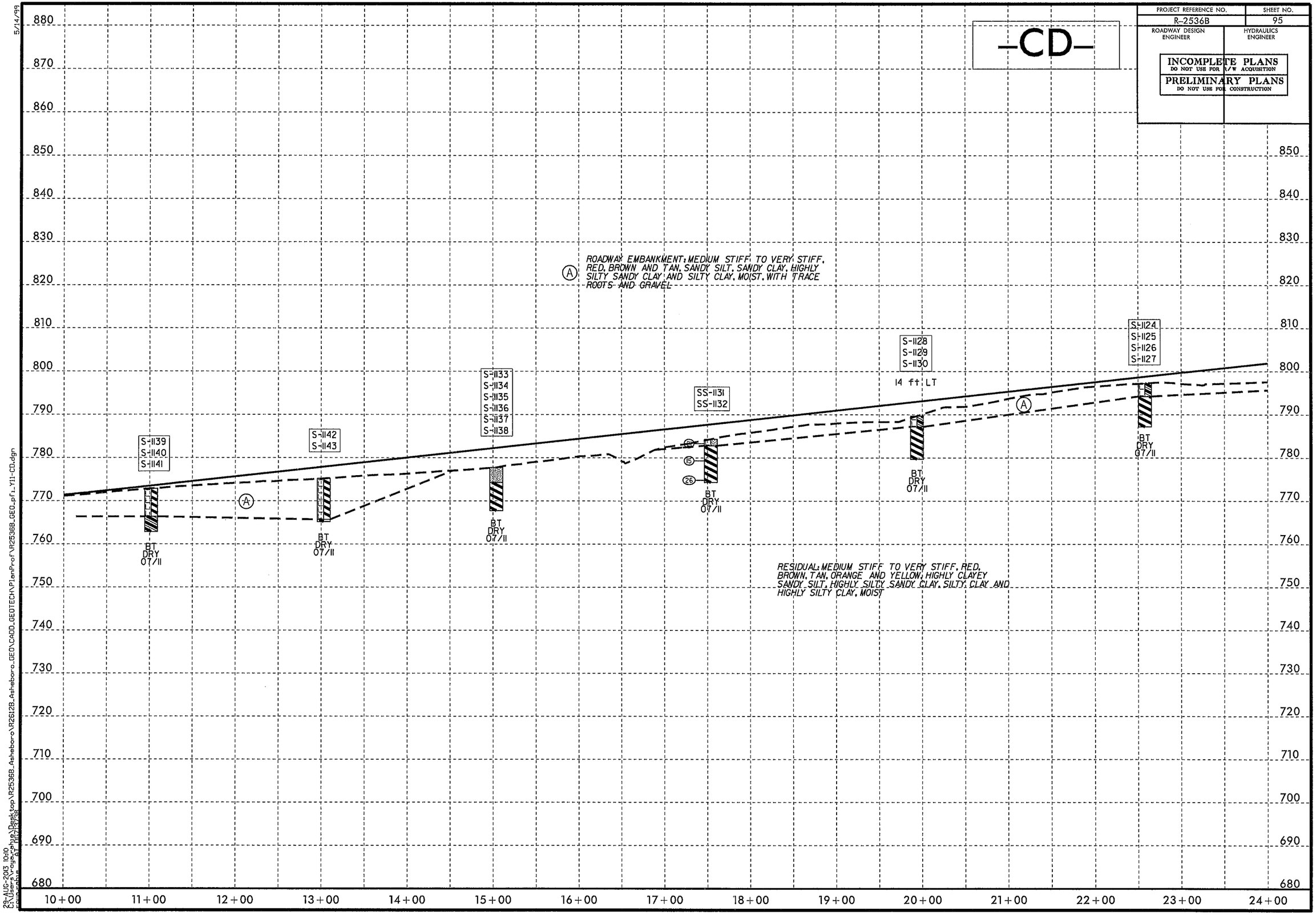
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	95
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-CD-



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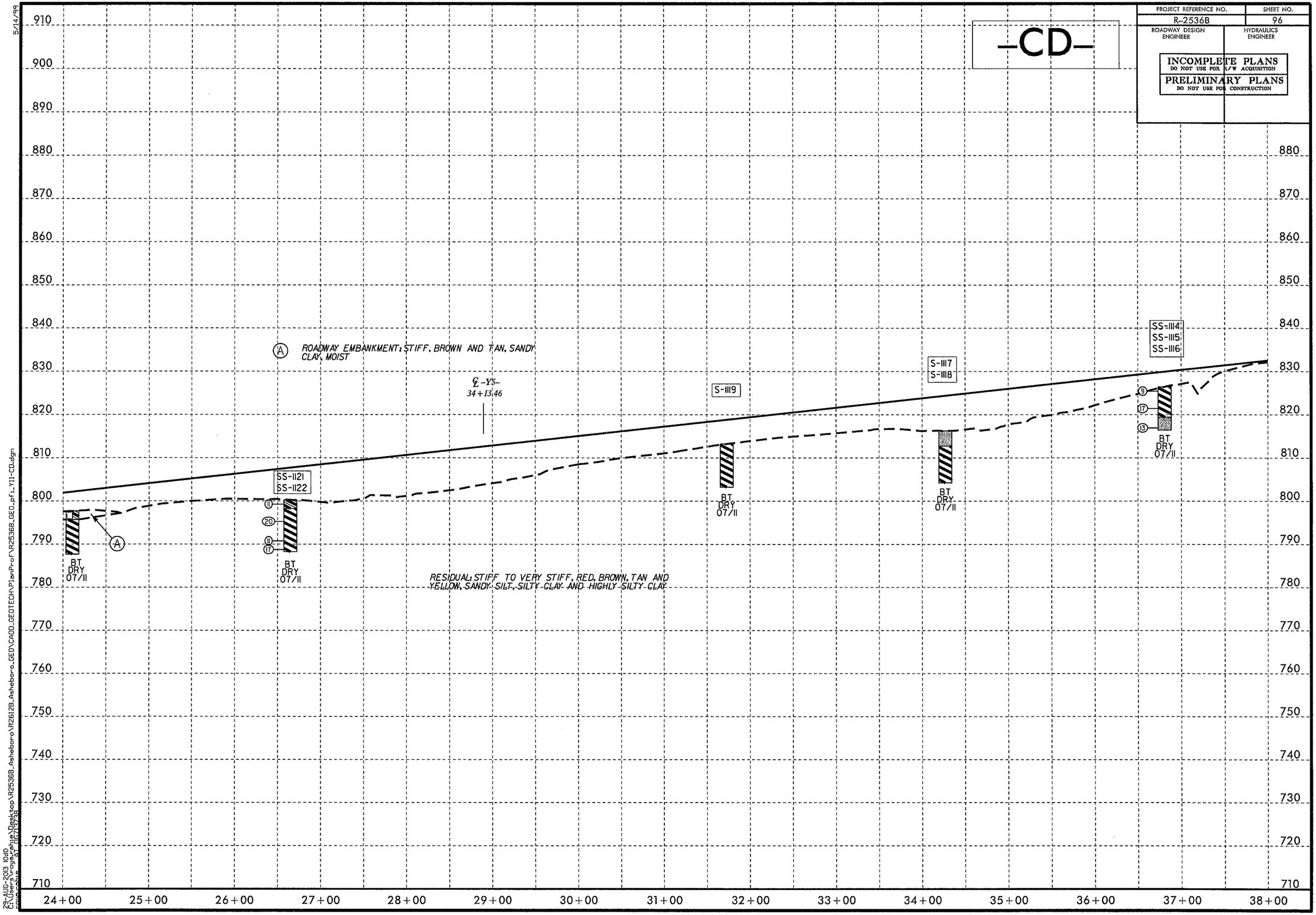
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	96
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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28-AUG-2013 10:10
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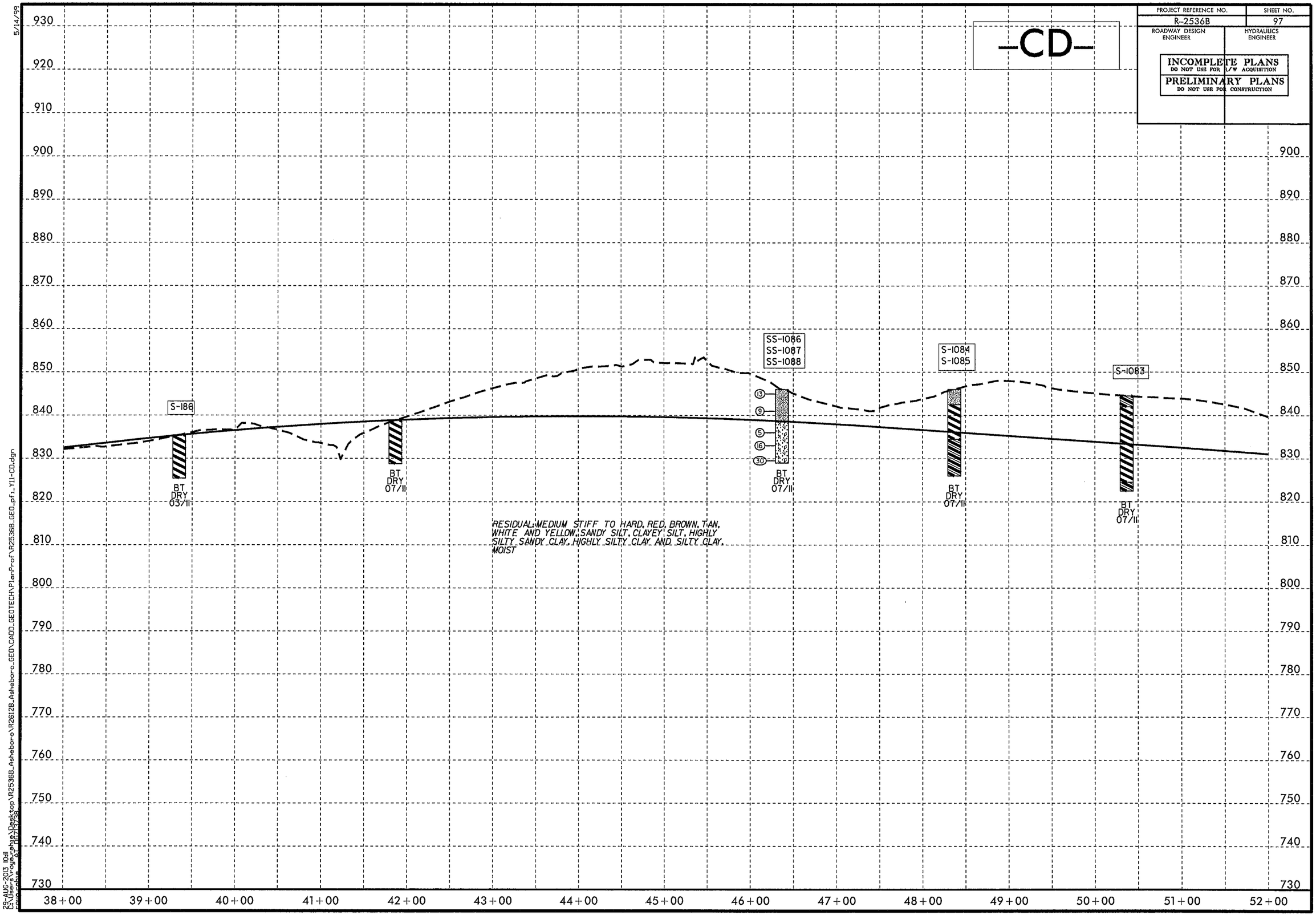
royachae

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	97
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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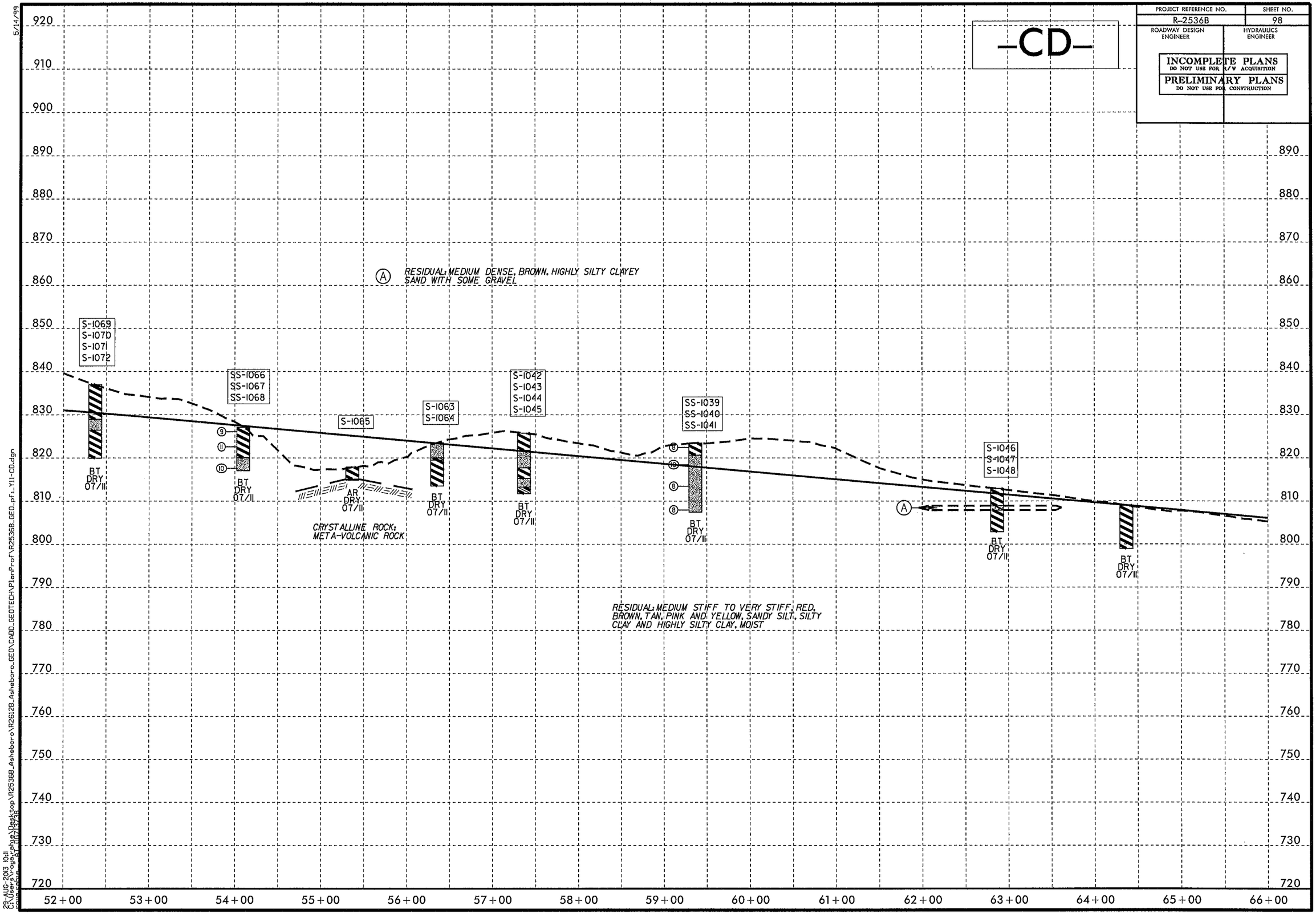
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	98
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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23-AUG-2013 10:11
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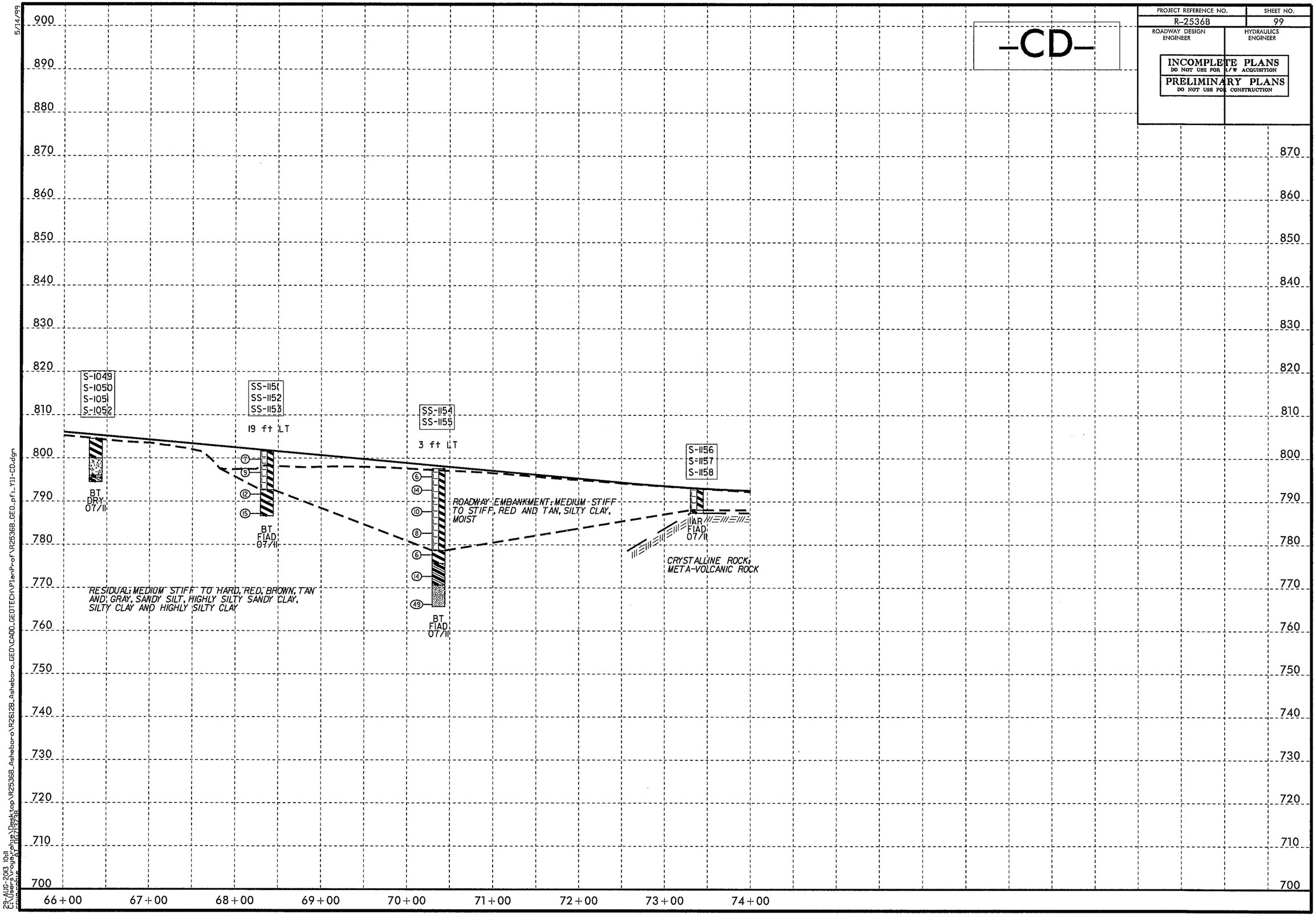
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	99
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-CD-



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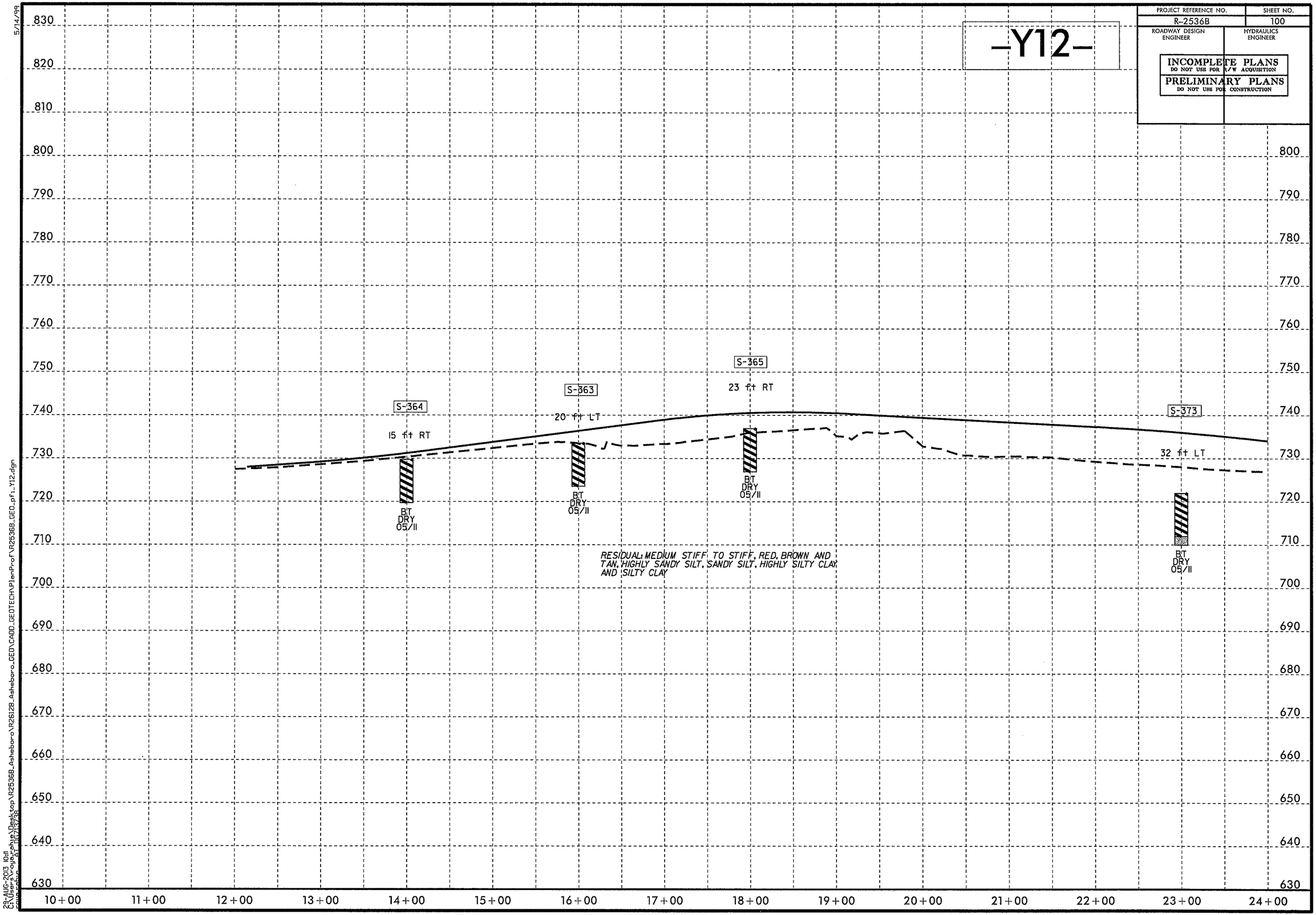
Current Date: Aug 7, 2013

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	100
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y12-



5/14/99

23-AUG-2013 10:11
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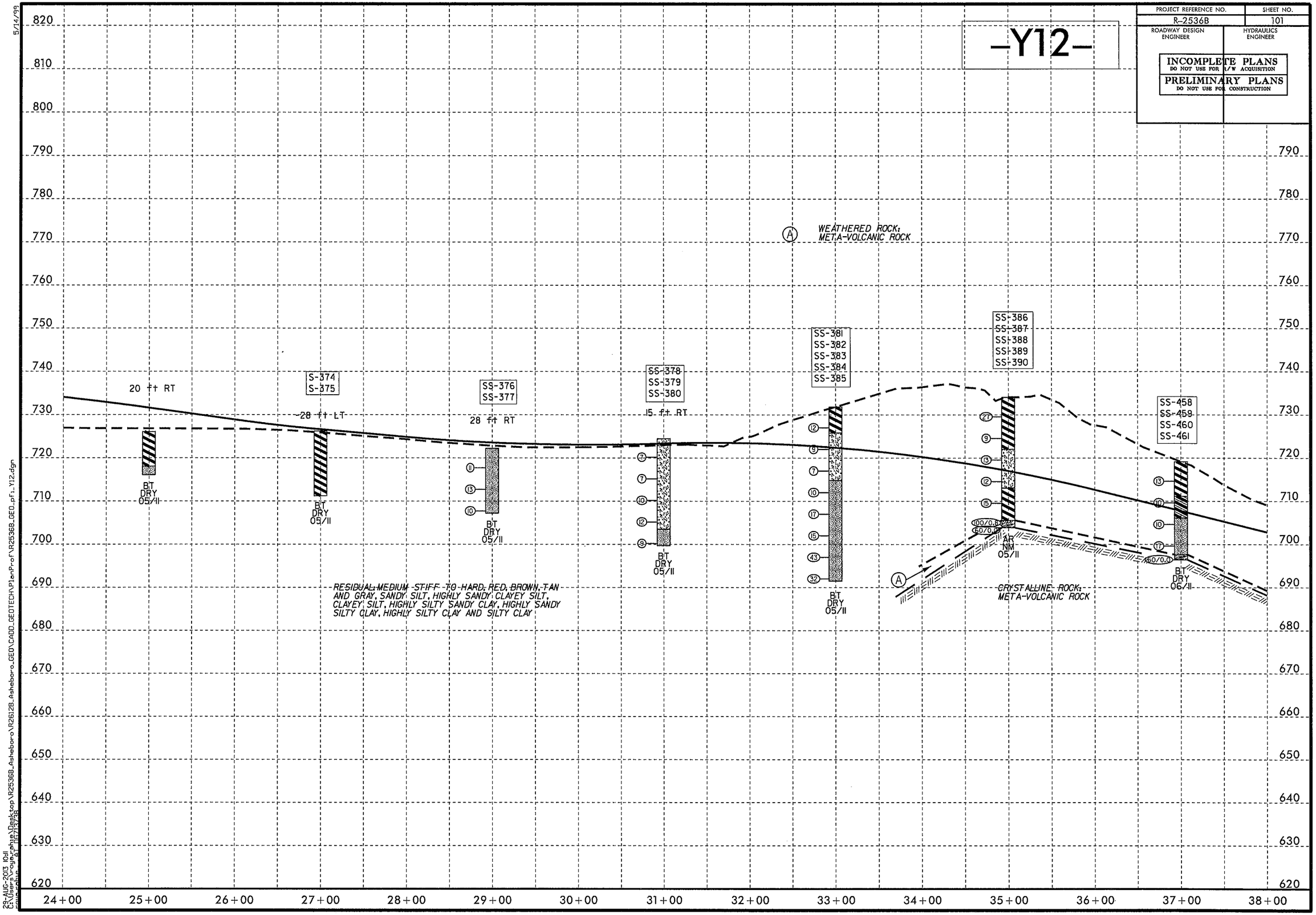
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	101
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y12-



5/14/99

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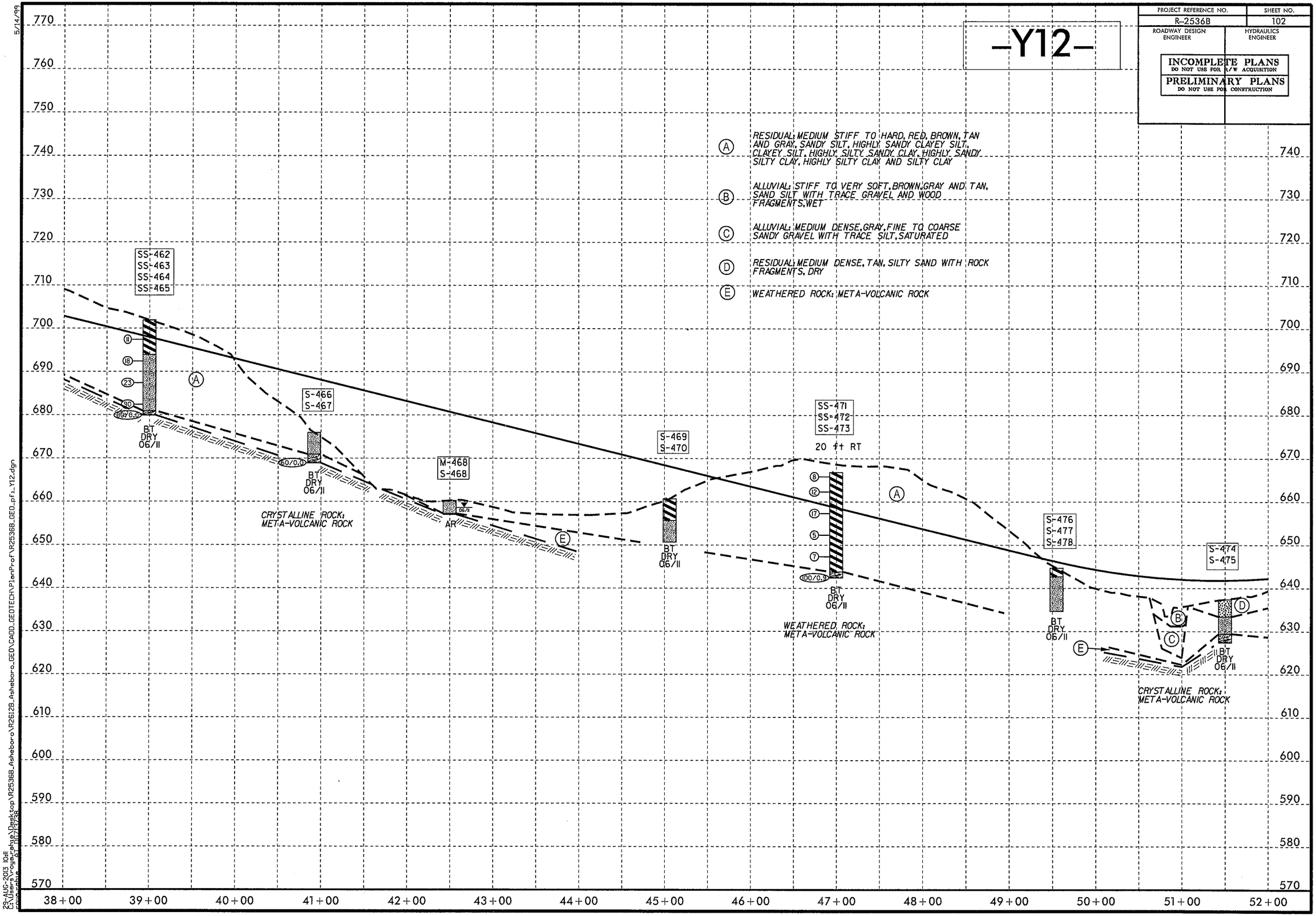
mmcmahon 8/16/2013

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	102
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y12-



5/14/99

23-AUG-2013 10:11
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mlowrine dgn/7.2.dgn

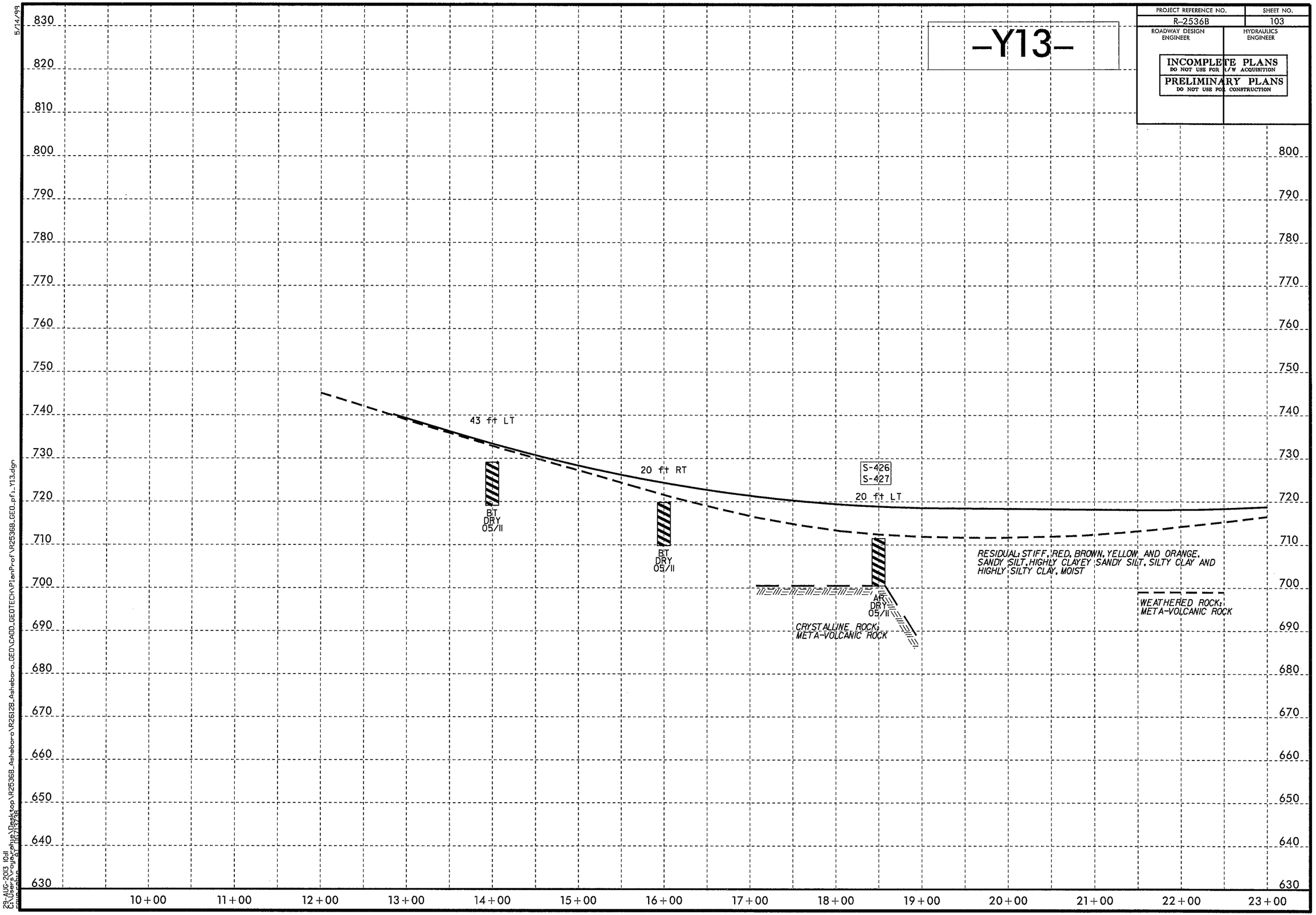
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	103
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y13-



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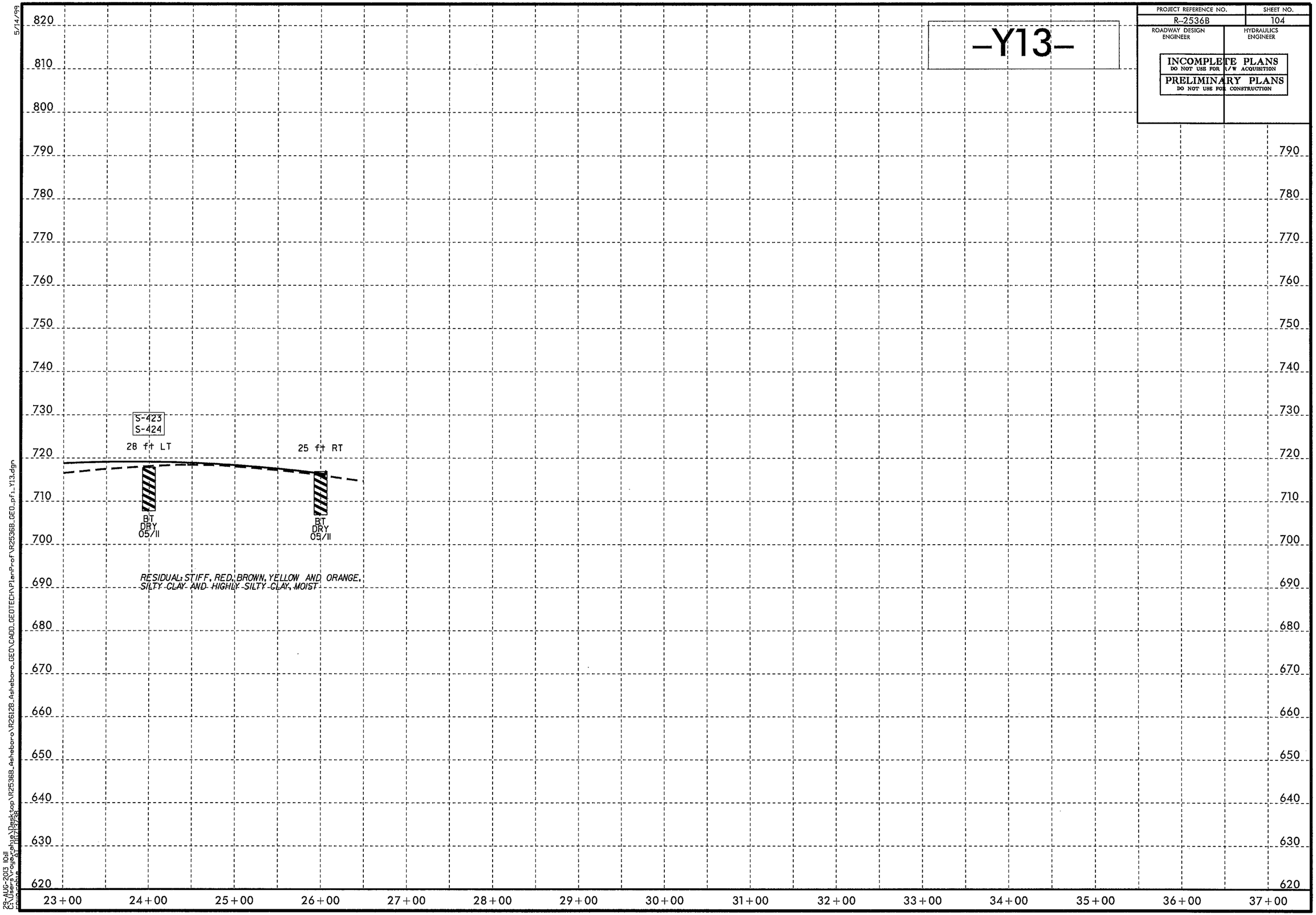
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-2536B	104
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y13-



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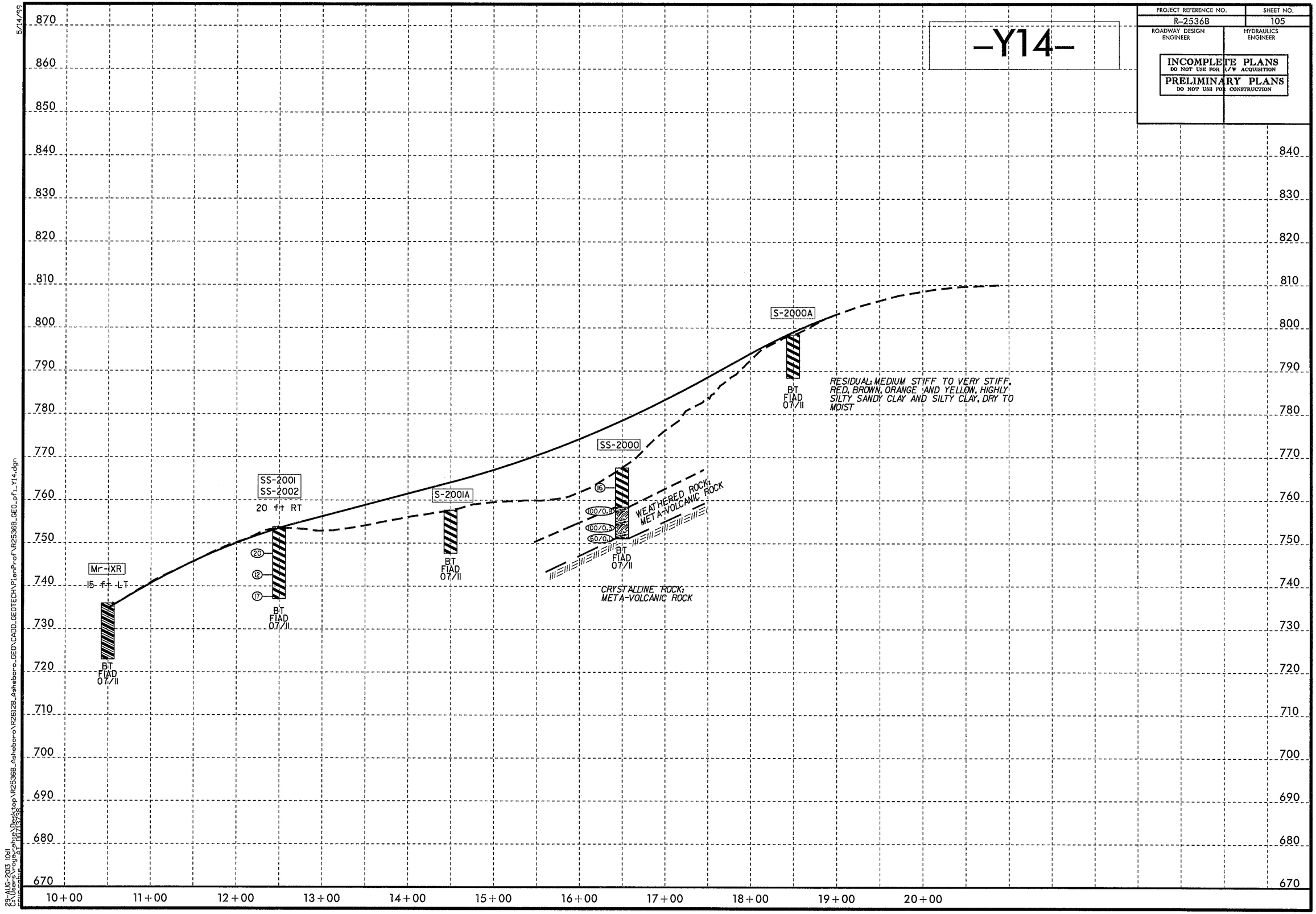
PROJECT REFERENCE NO.	SHEET NO.
R-2536B	105
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-Y14-



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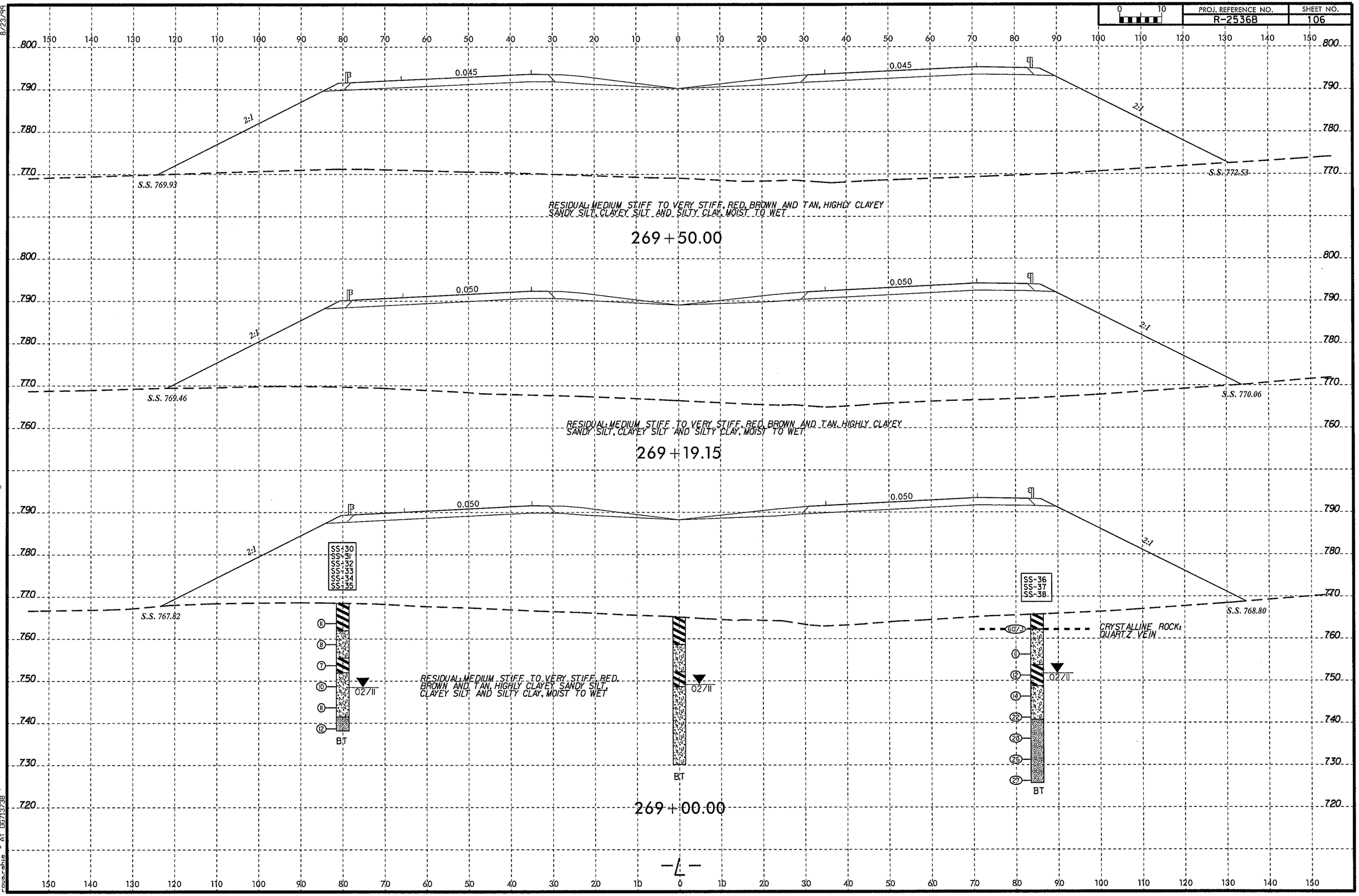
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	106



8/23/99

29-AUG-2013 11:00
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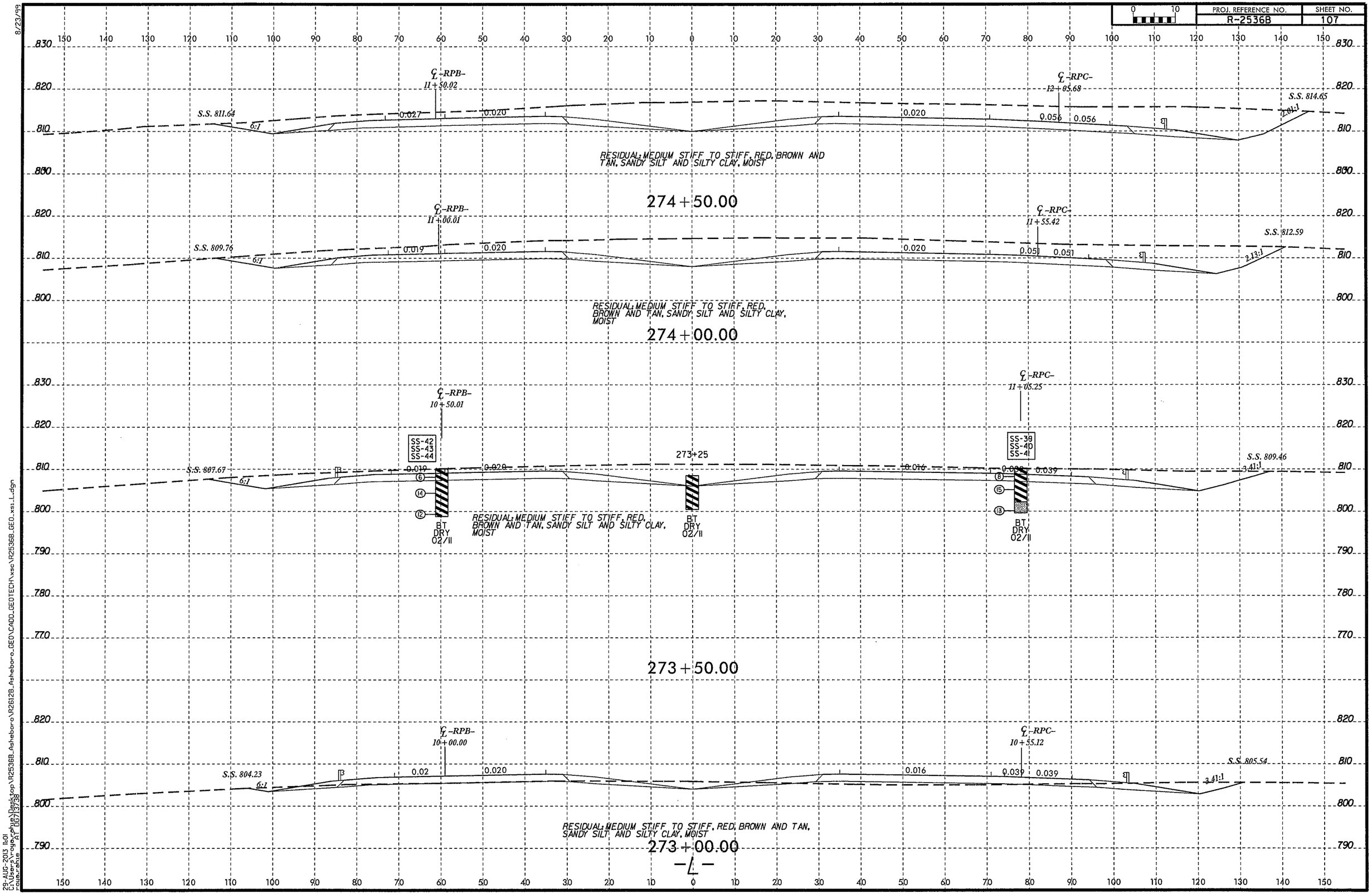
roger.phillips AT DOT/13/38



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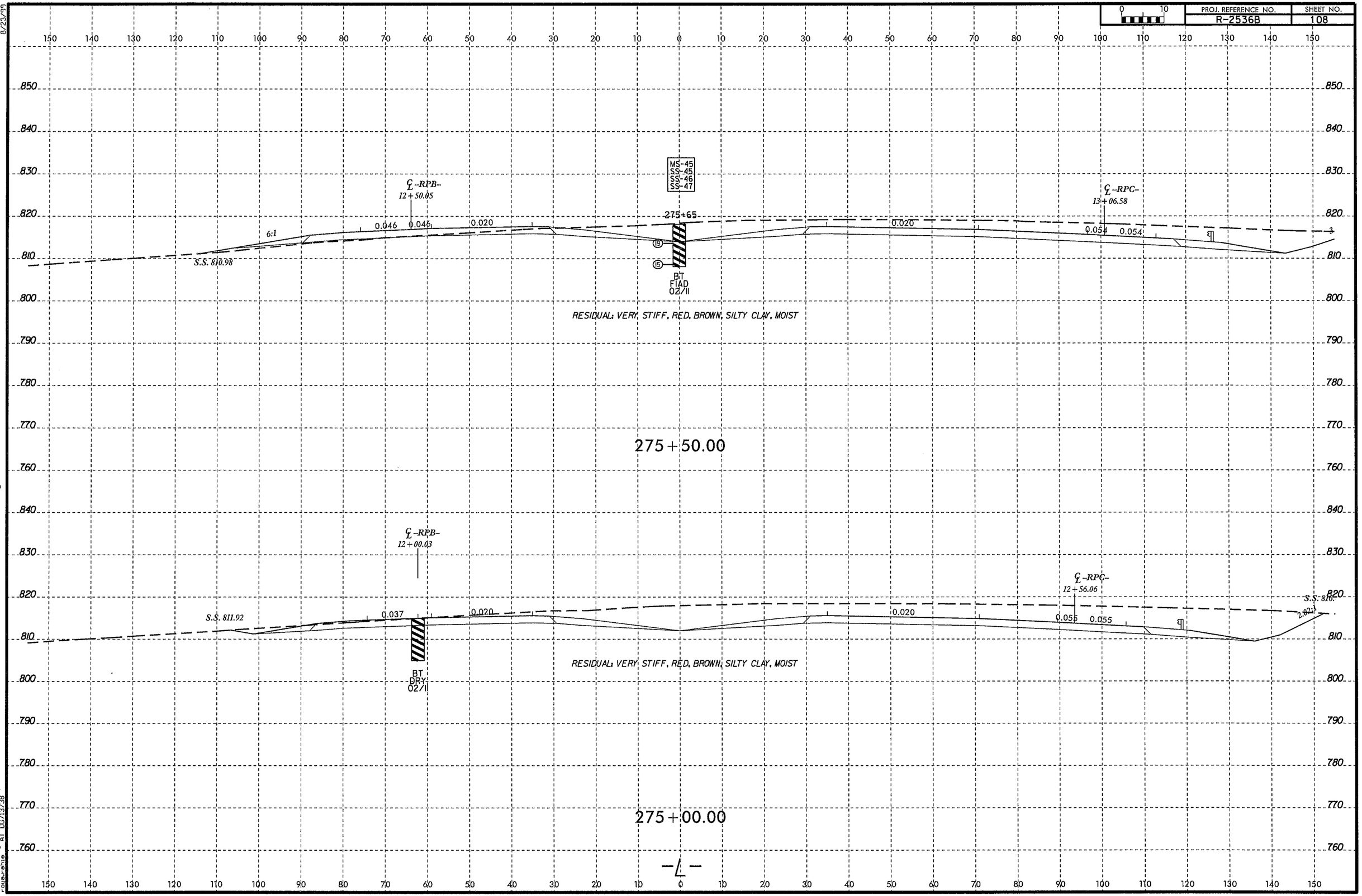
AT 05/13/38



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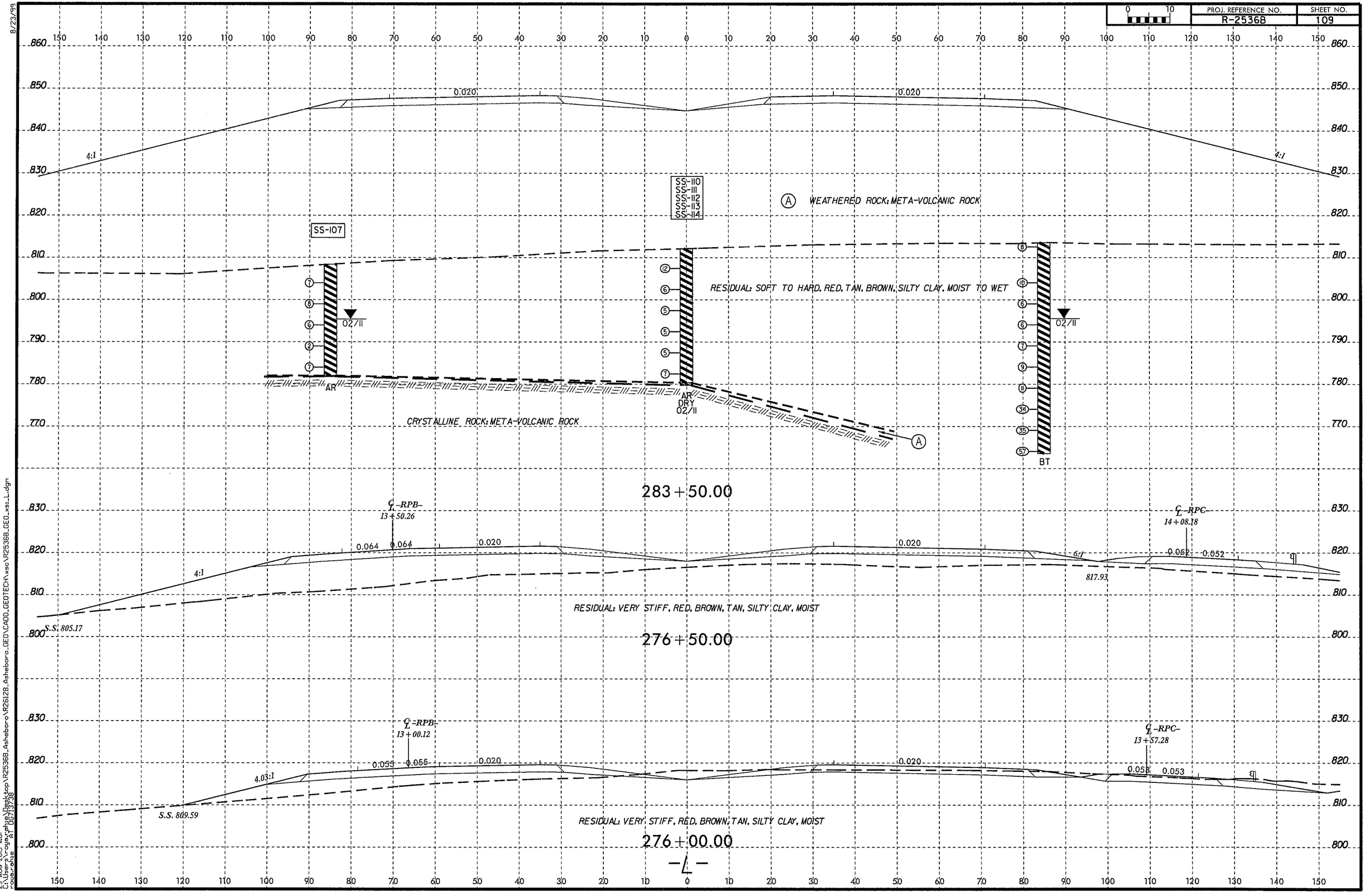

8/23/99

29-AUG-2013 11:01
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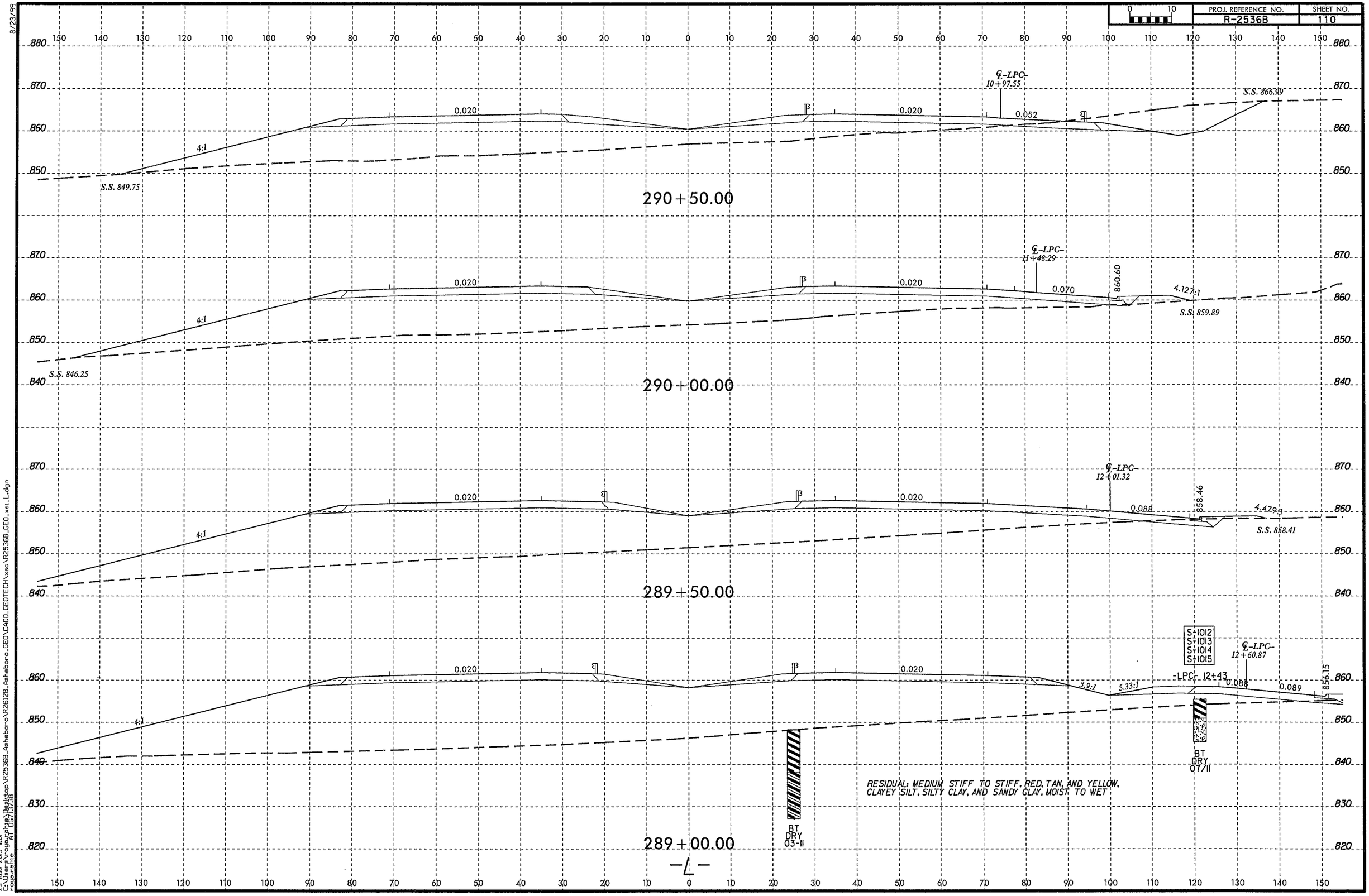
royazahie AT DOT\3738



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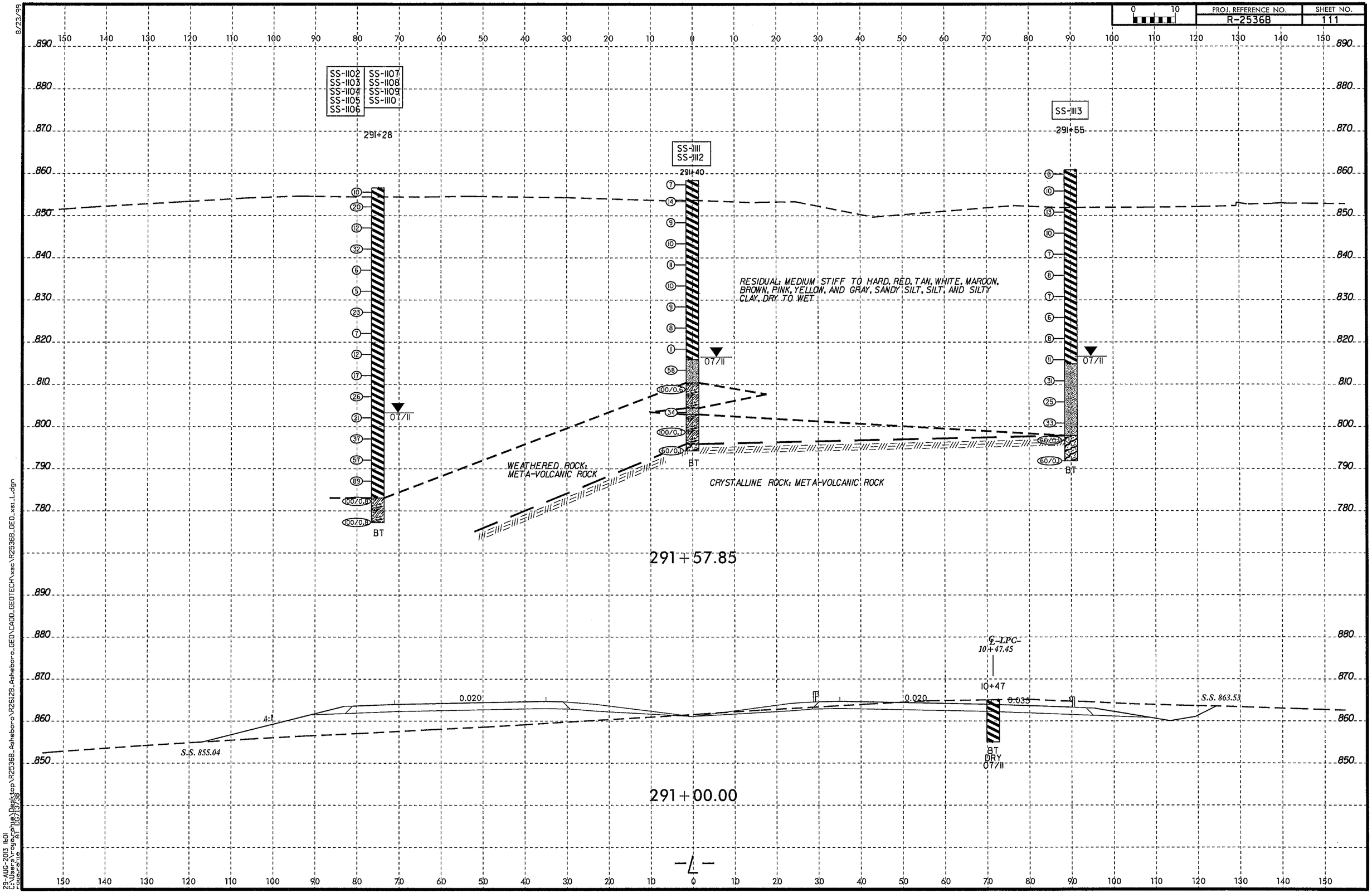
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	111



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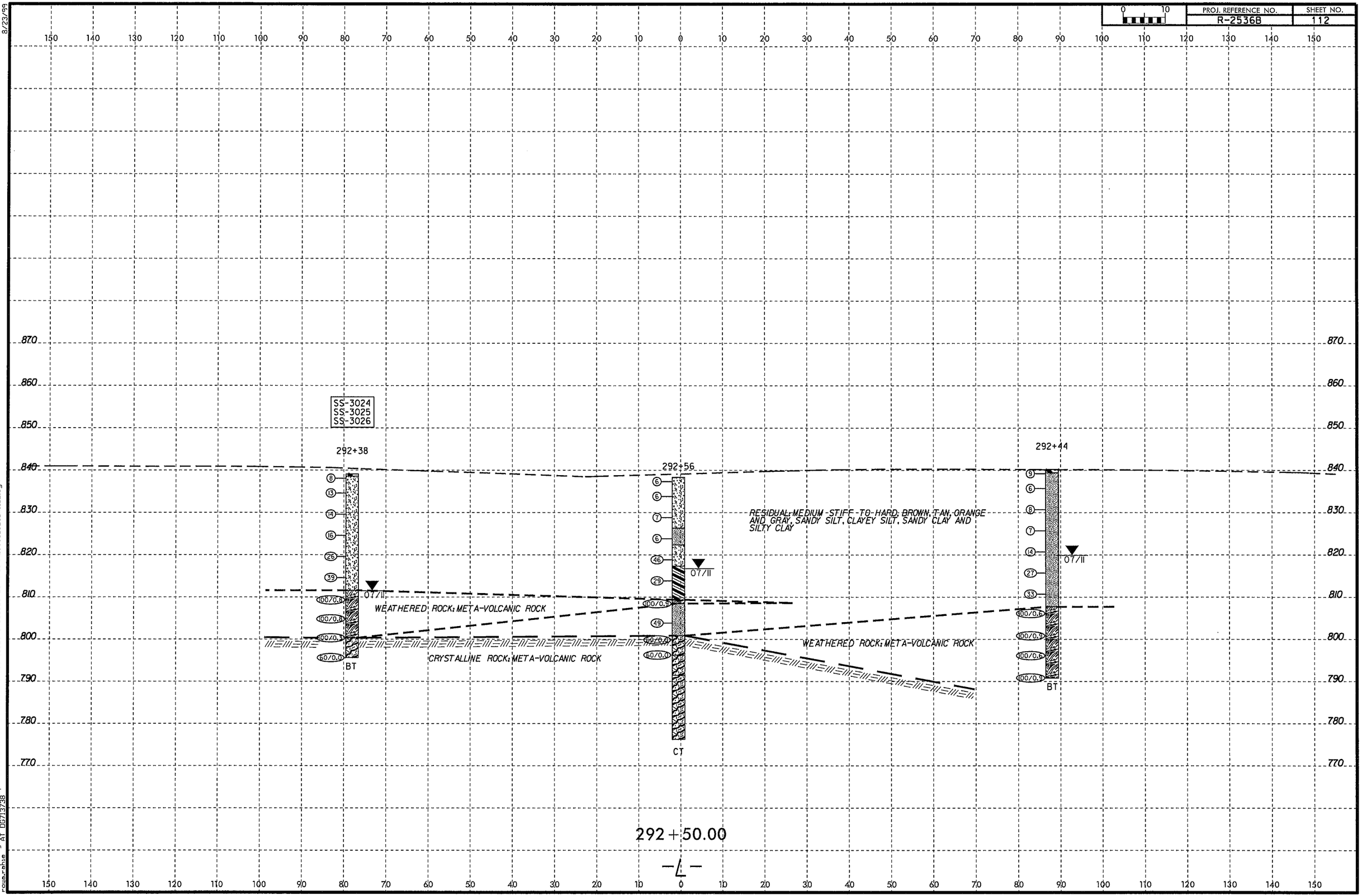
royexphe
AT DS713738



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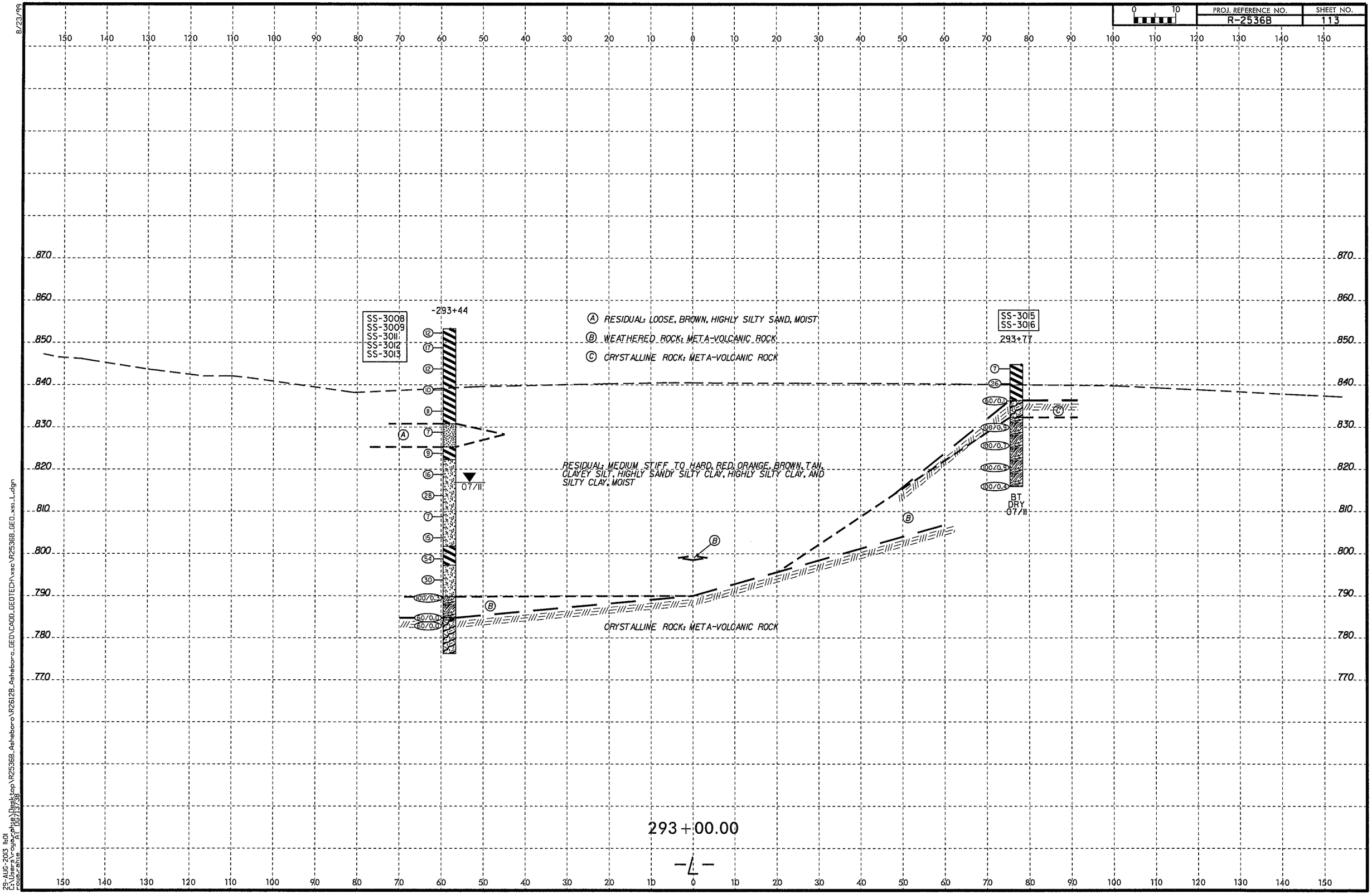
AT DB7/13/38



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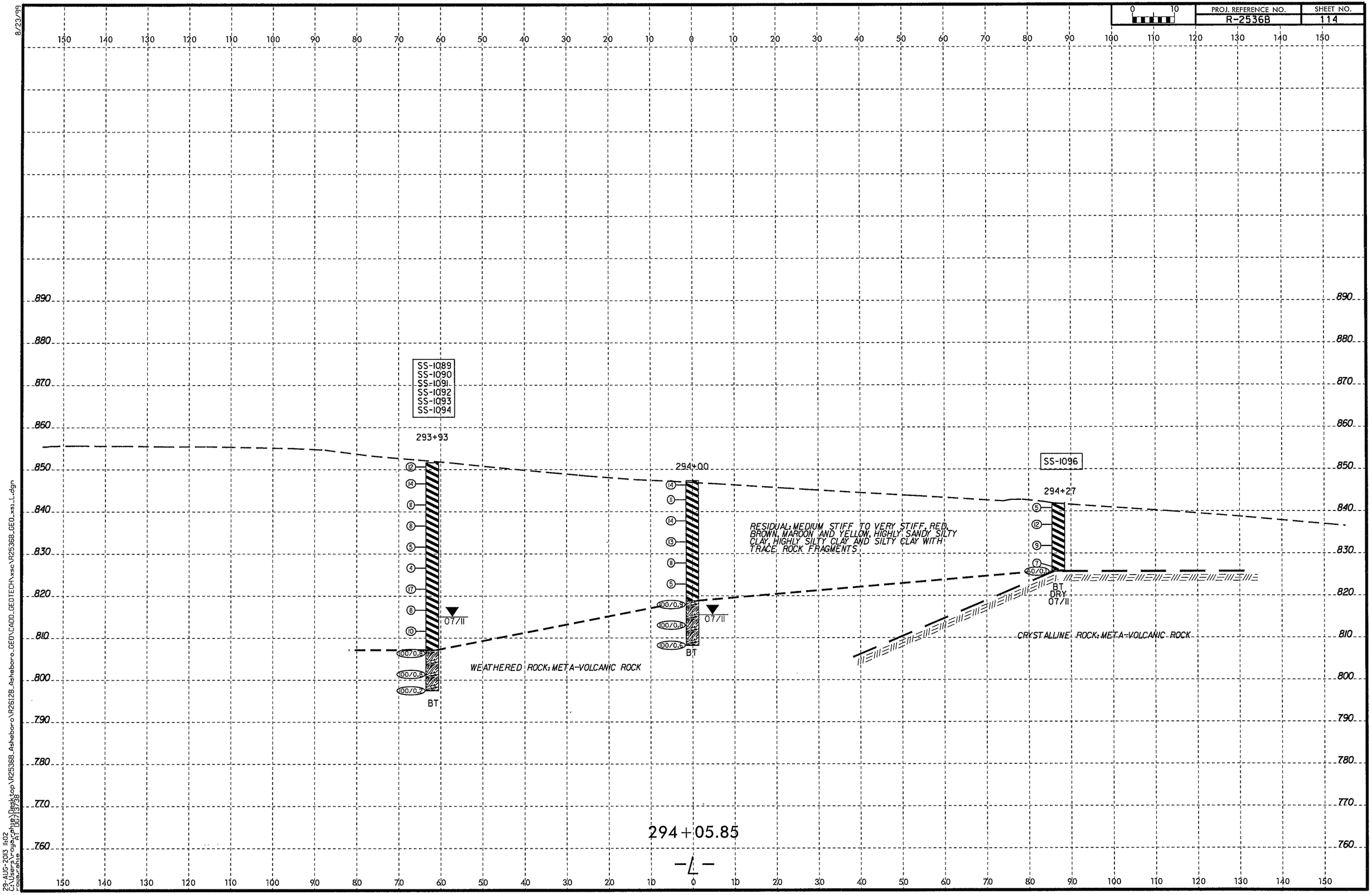

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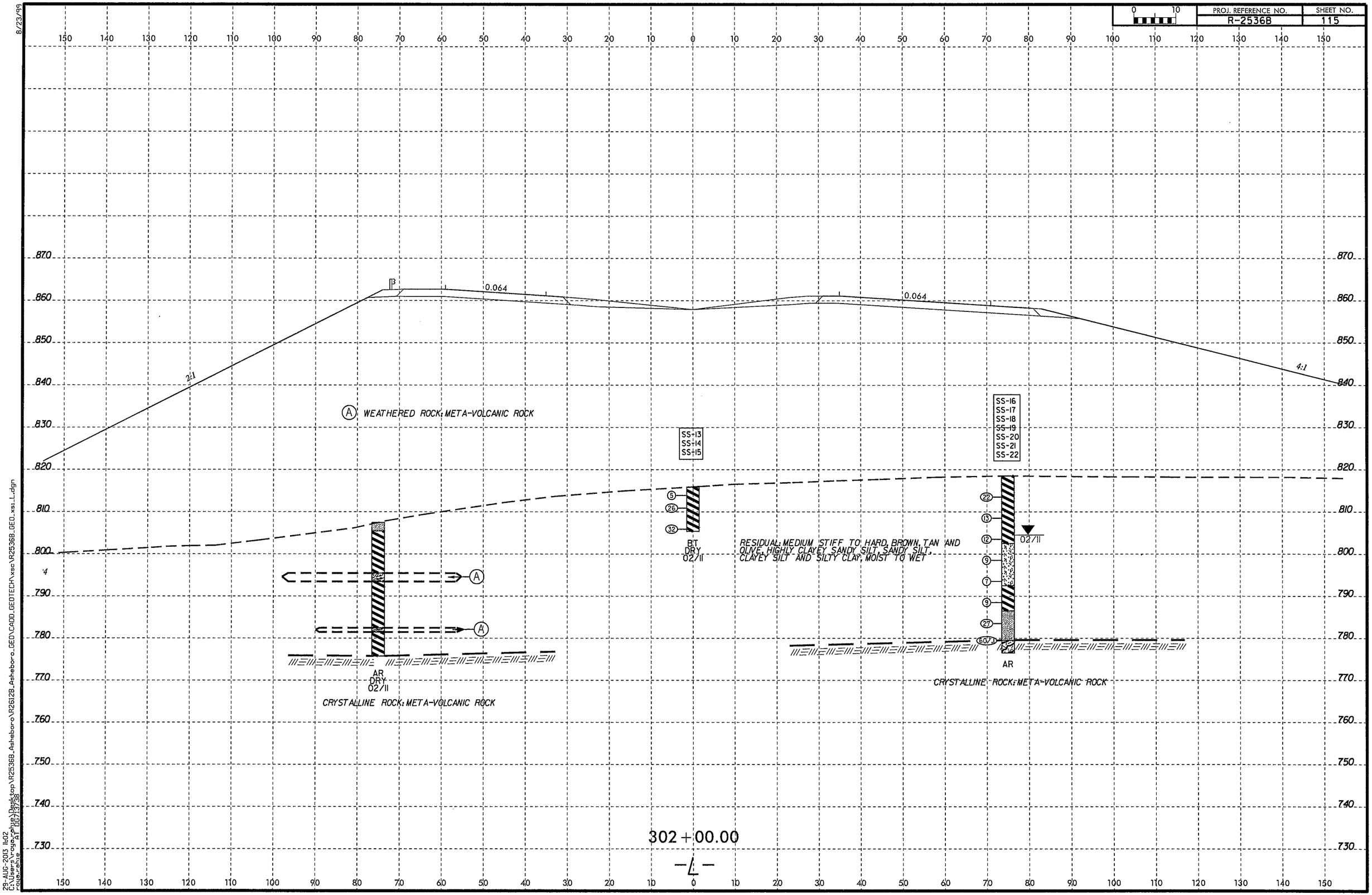
AT DG7/3738



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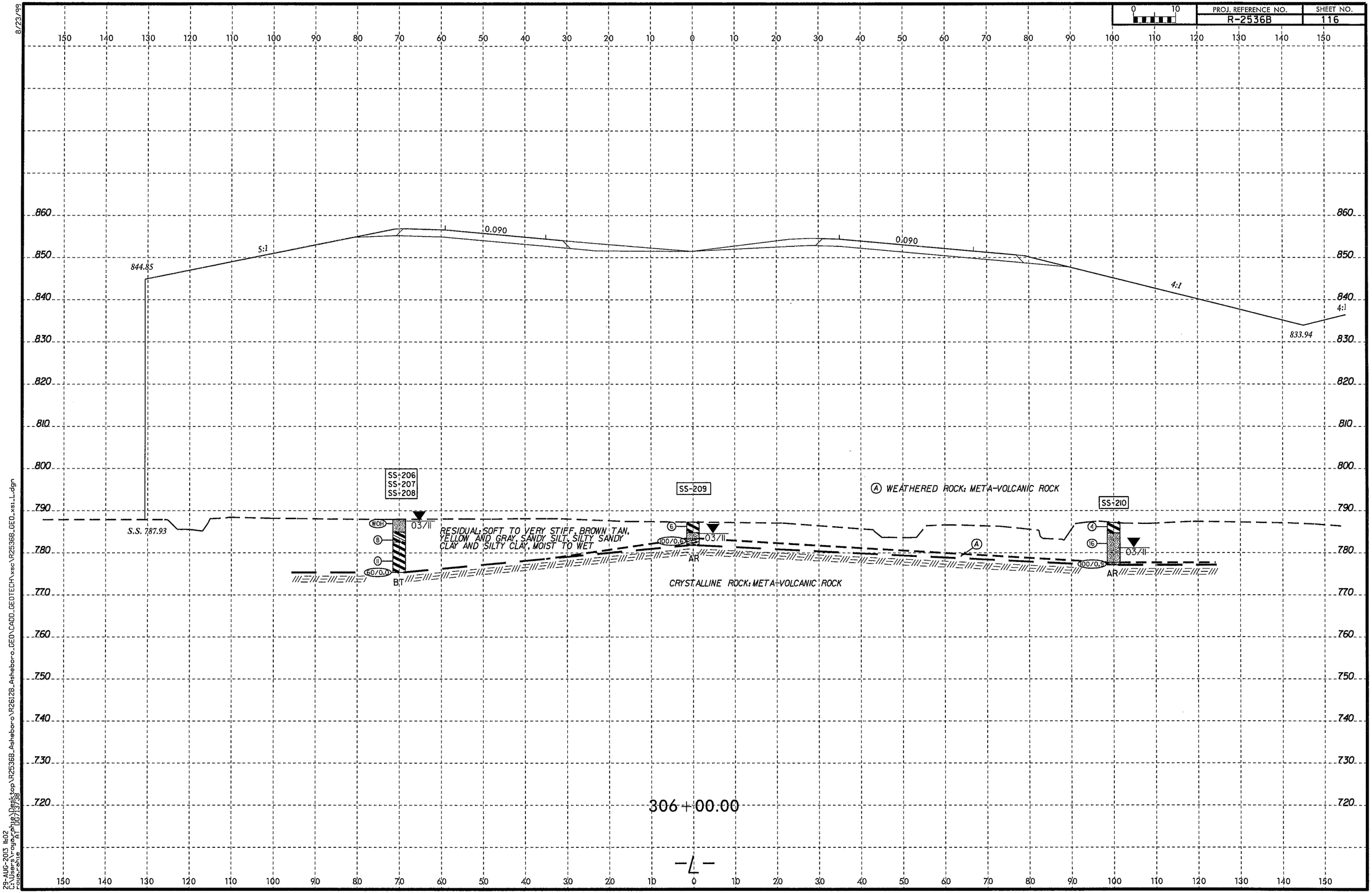

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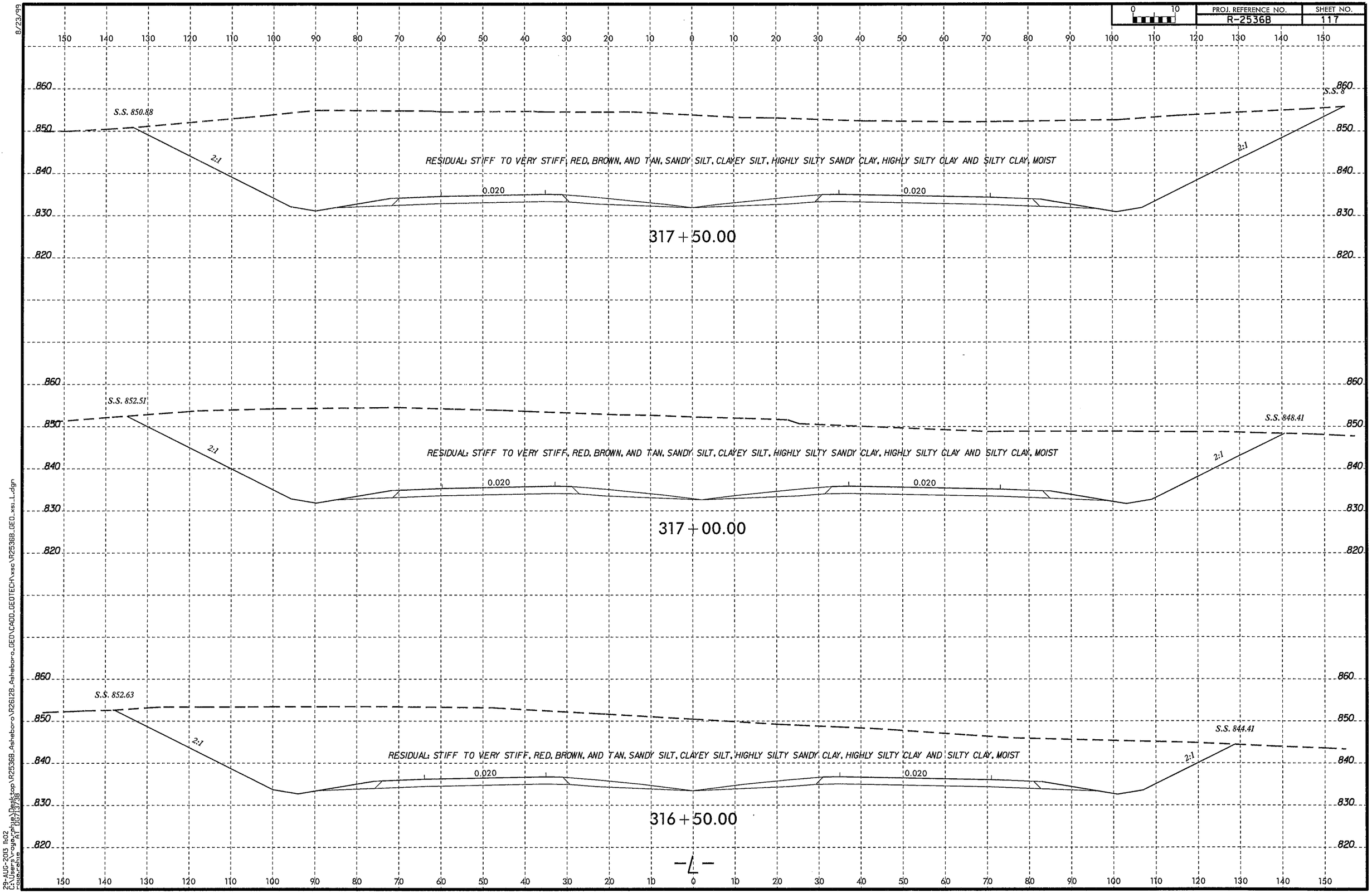
AT DG713738



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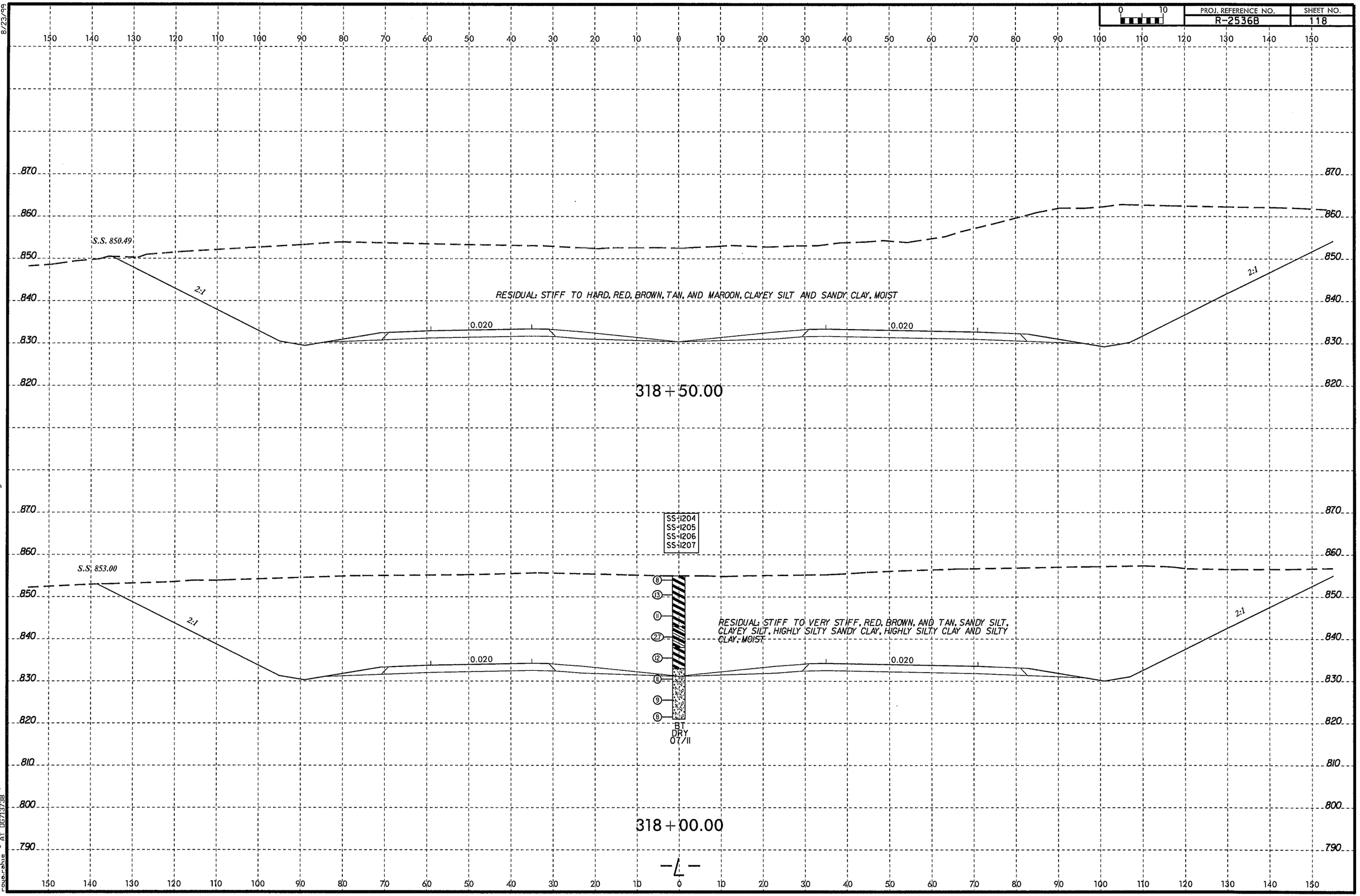
AT 100/13/38

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	118



8/23/99

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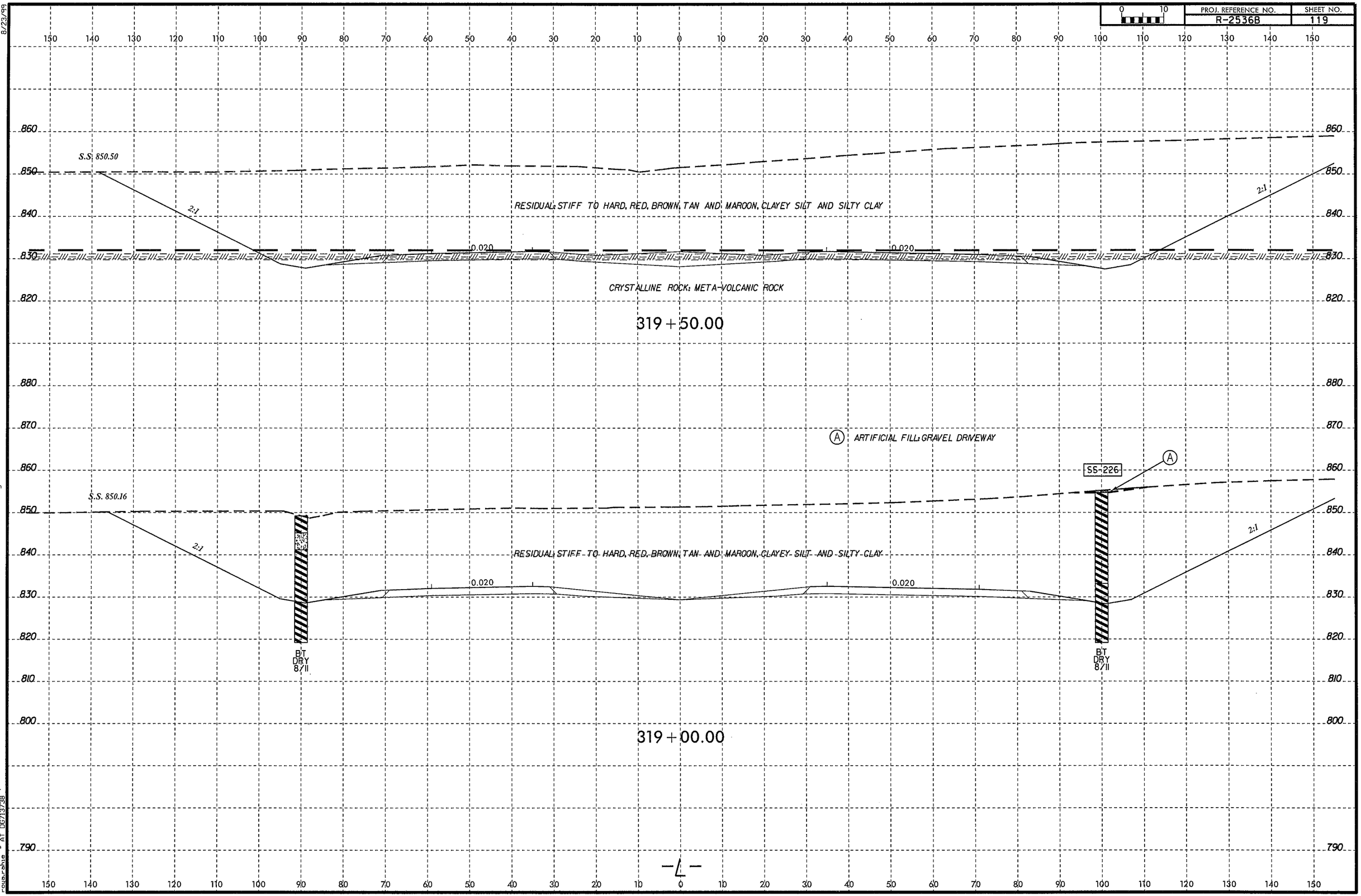
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	119



8/23/99

29-AUG-2013 11:02
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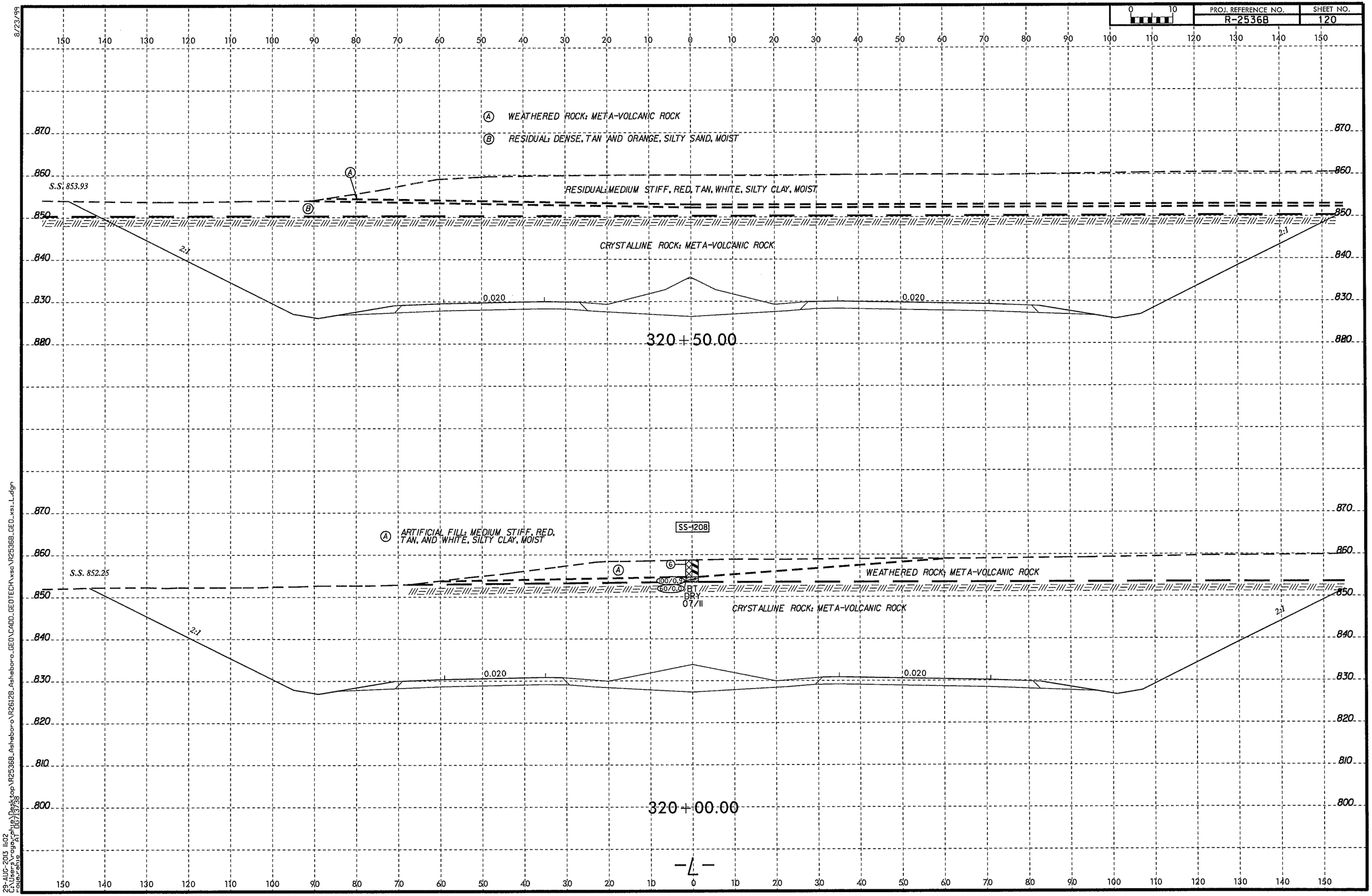
AT 06/13/38

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	120



8/23/99

29-AUG-2013 11:02
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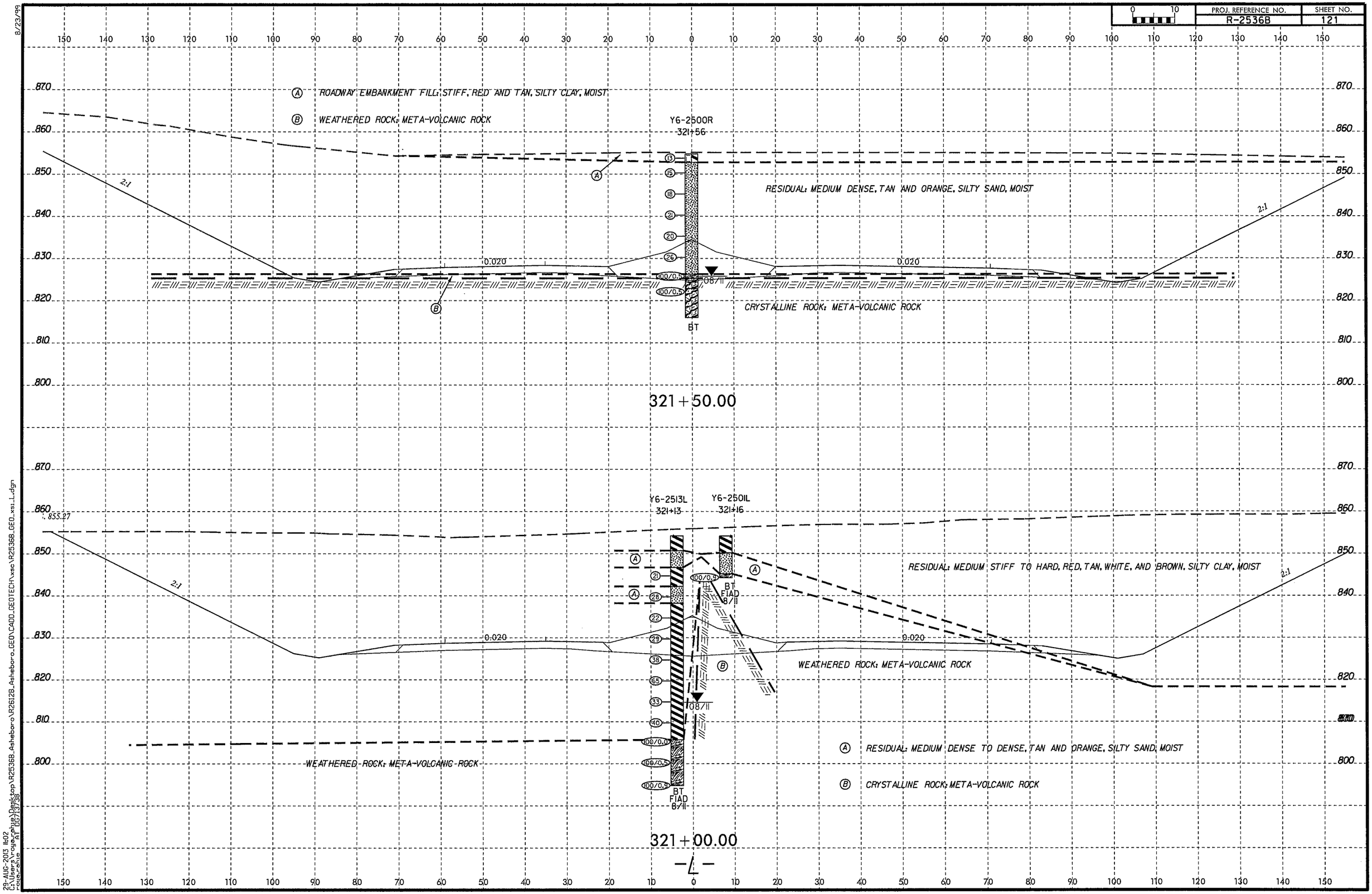

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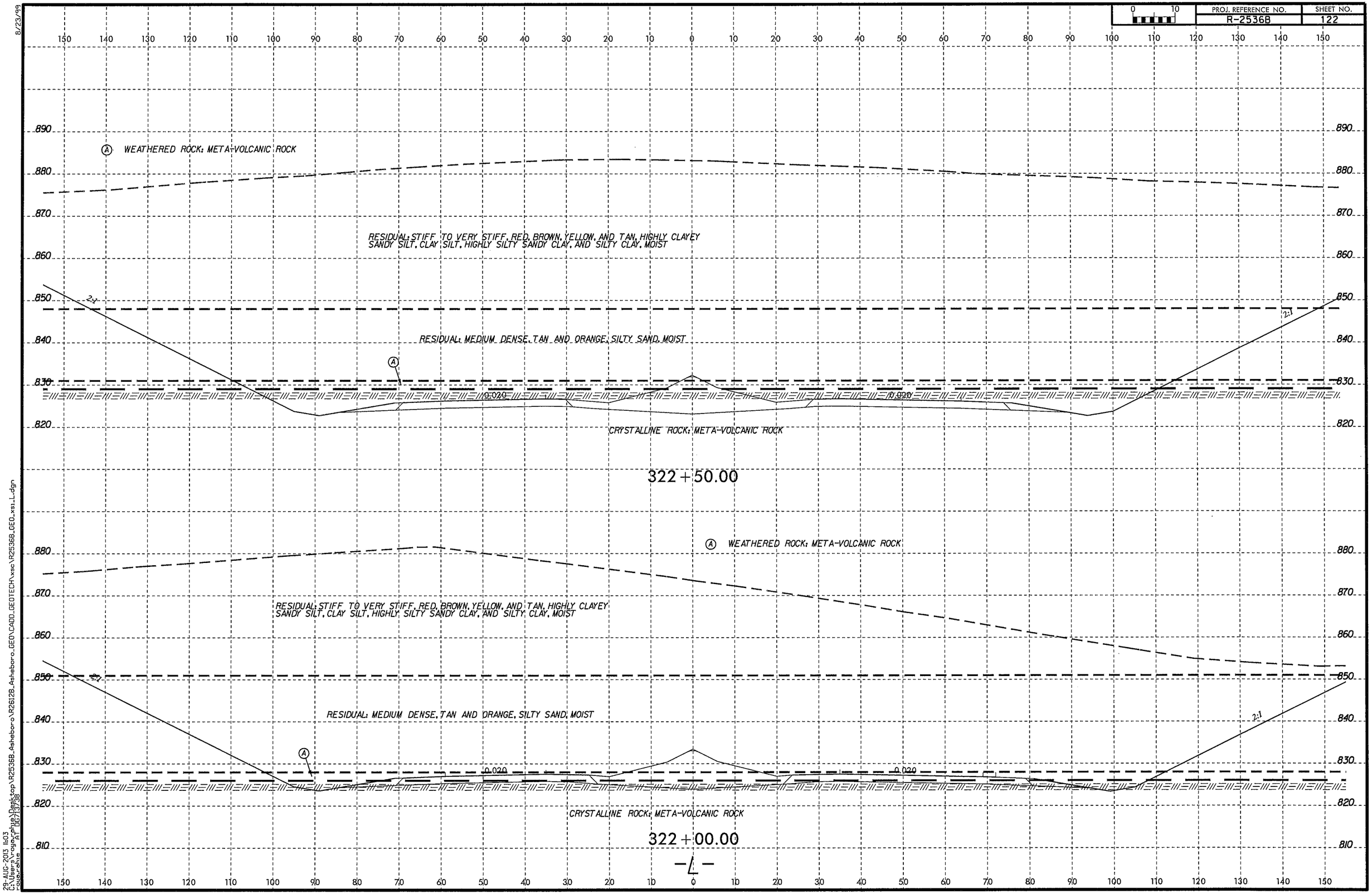

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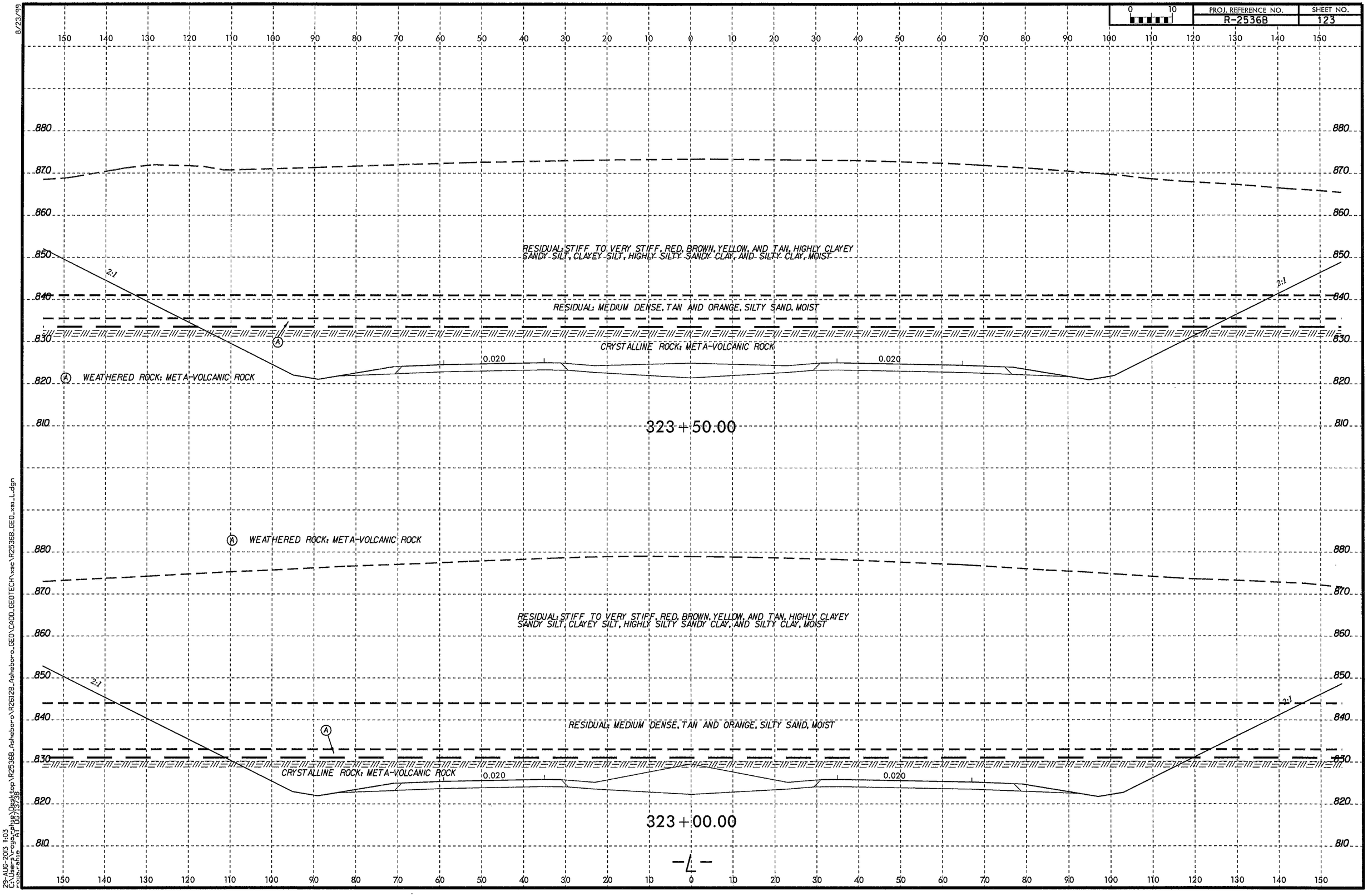

8/23/99
29-AUG-2013 11:03
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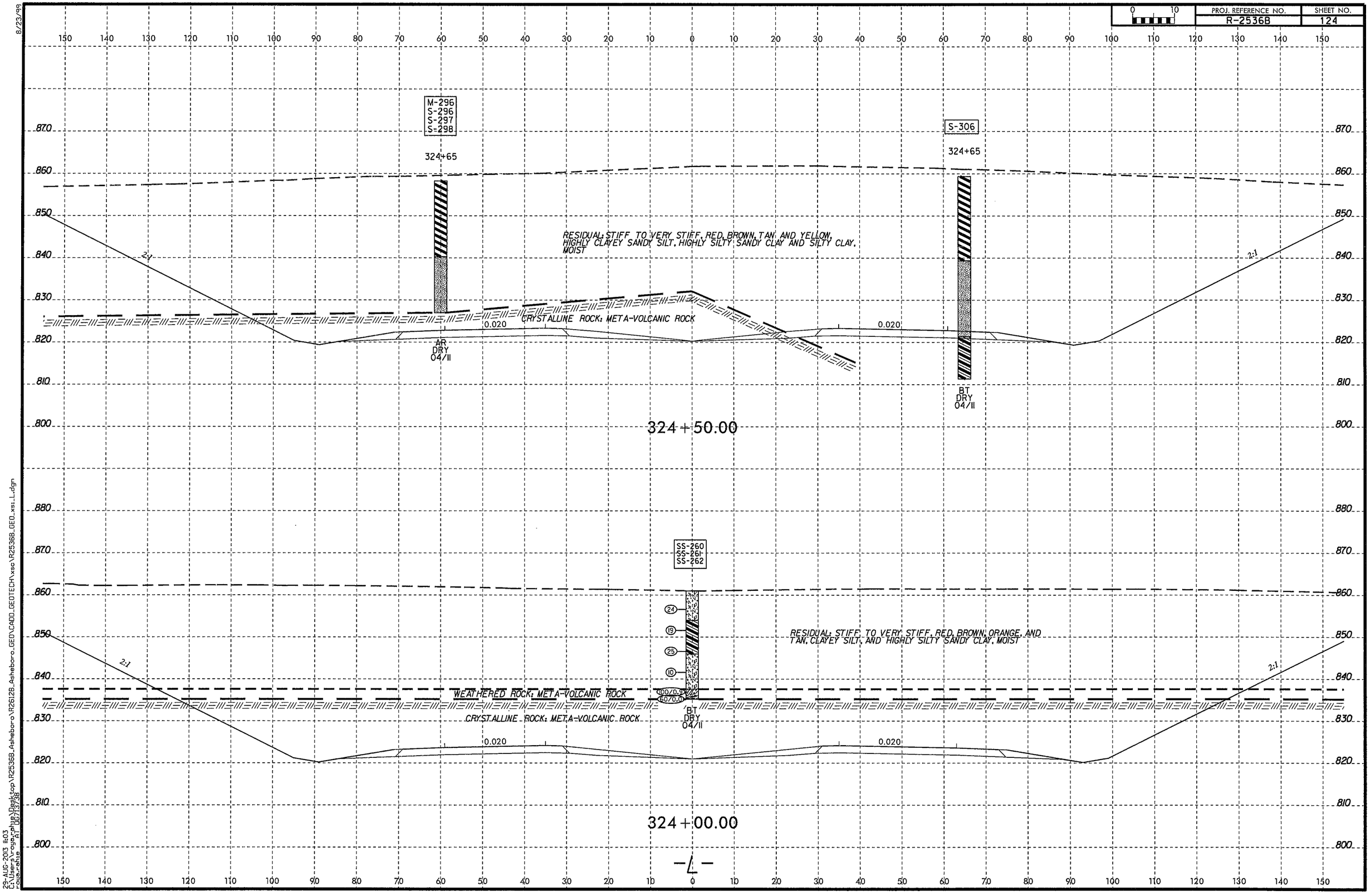
rogue.phue AT DS7135735



8/23/99
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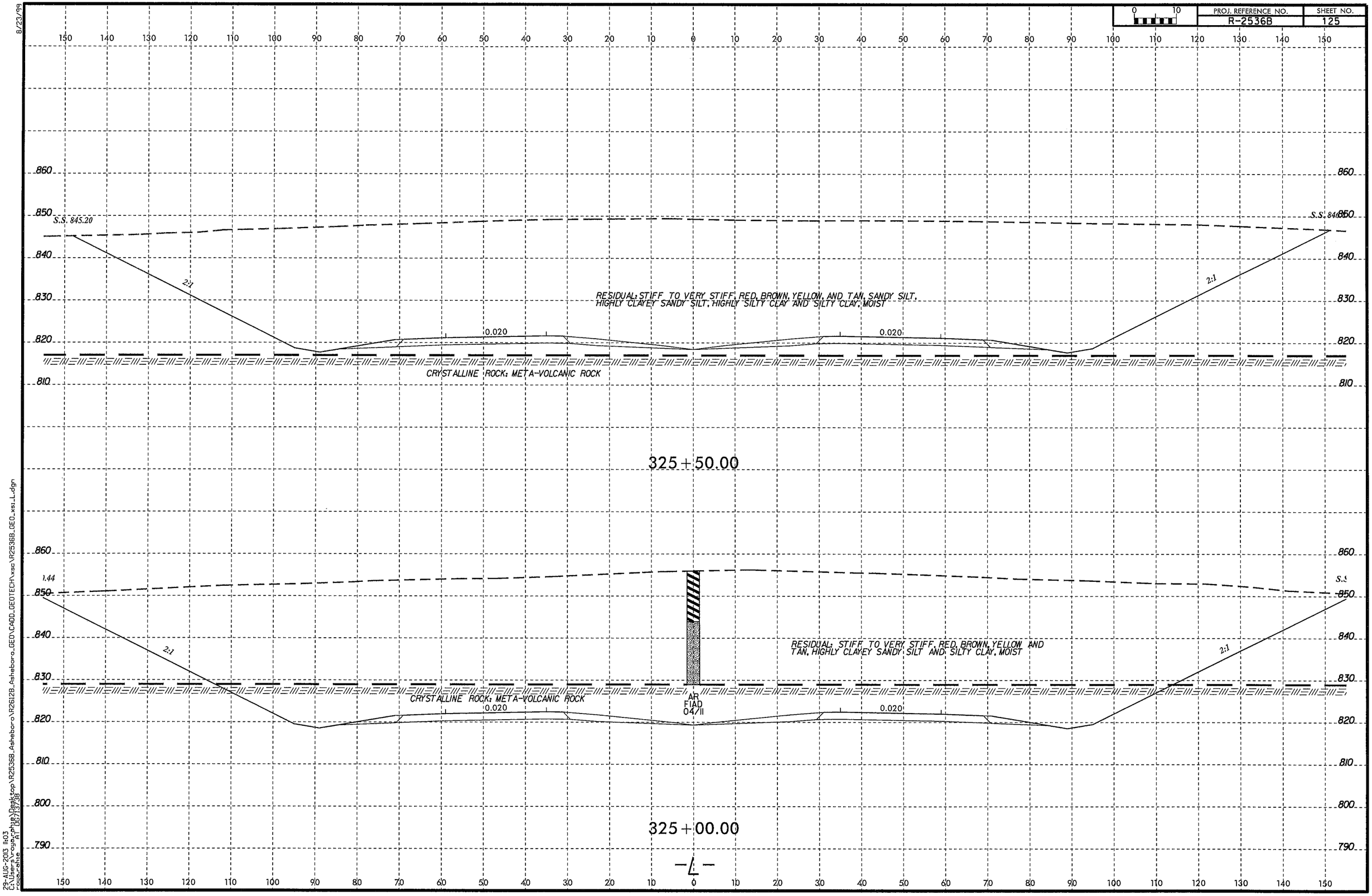

8/23/99

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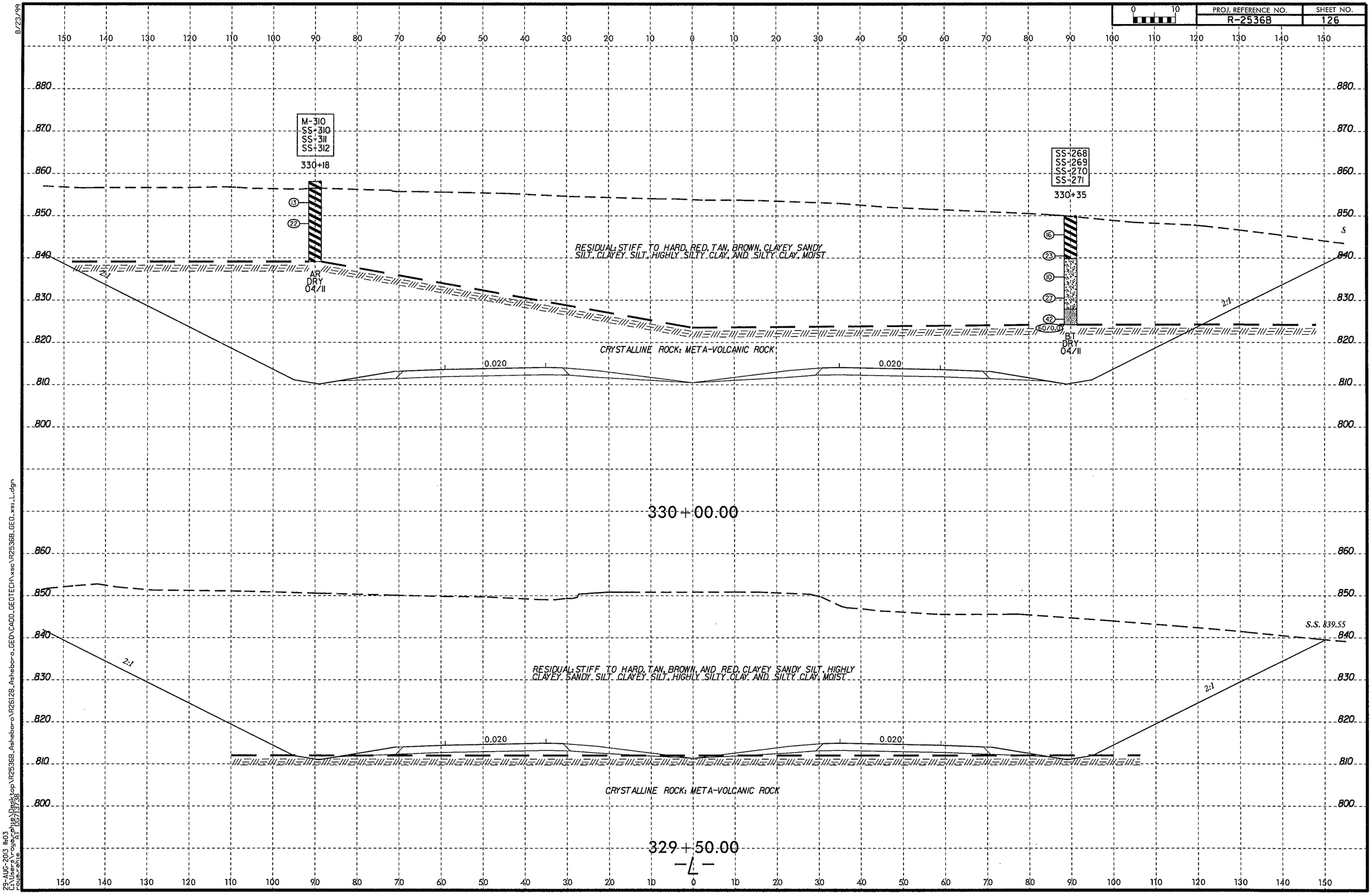
AT 100.0000/39



8/23/99
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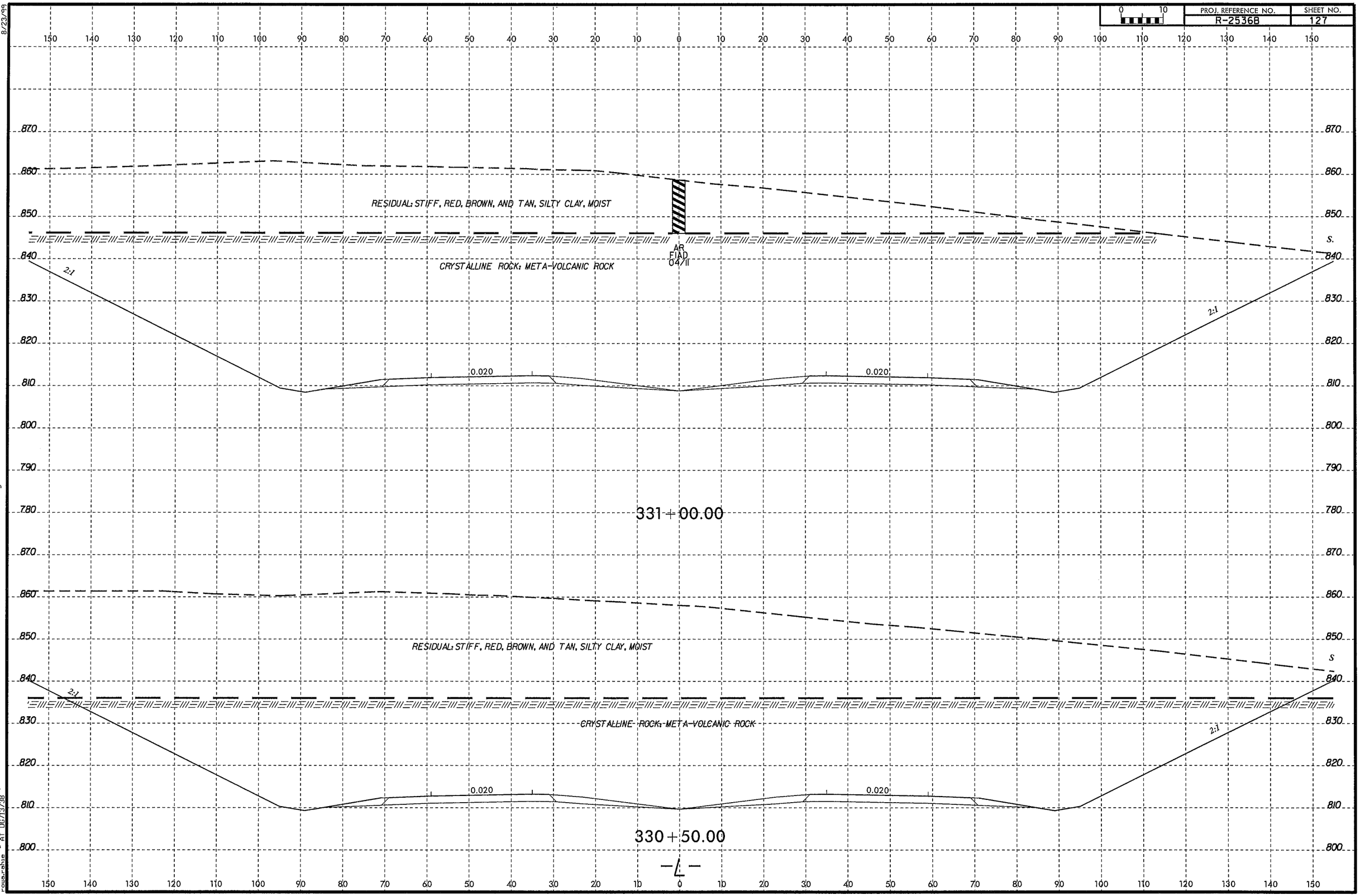
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	127



8/23/99

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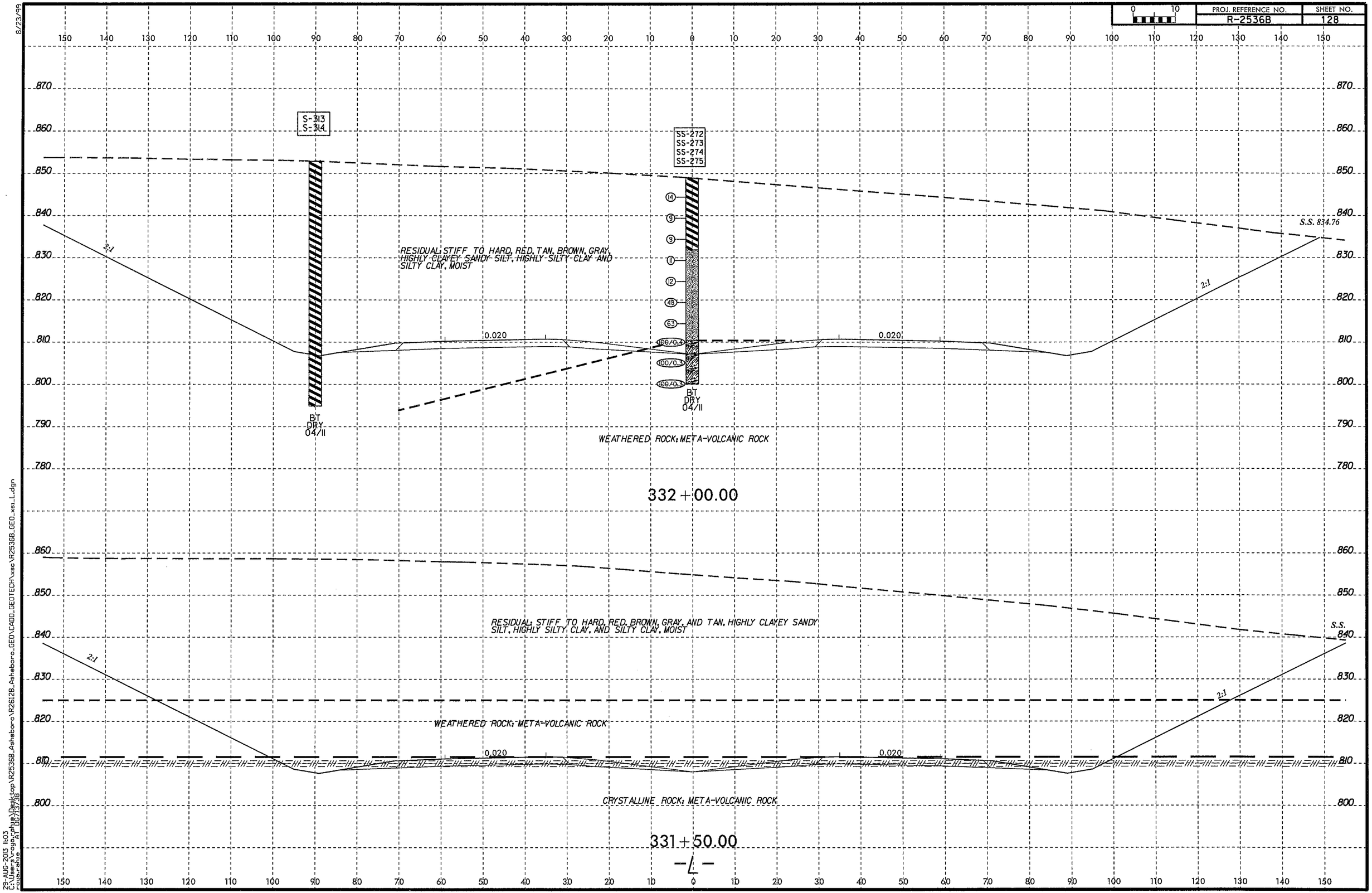
AT 06/13/38



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29-AUG-2013 11:03
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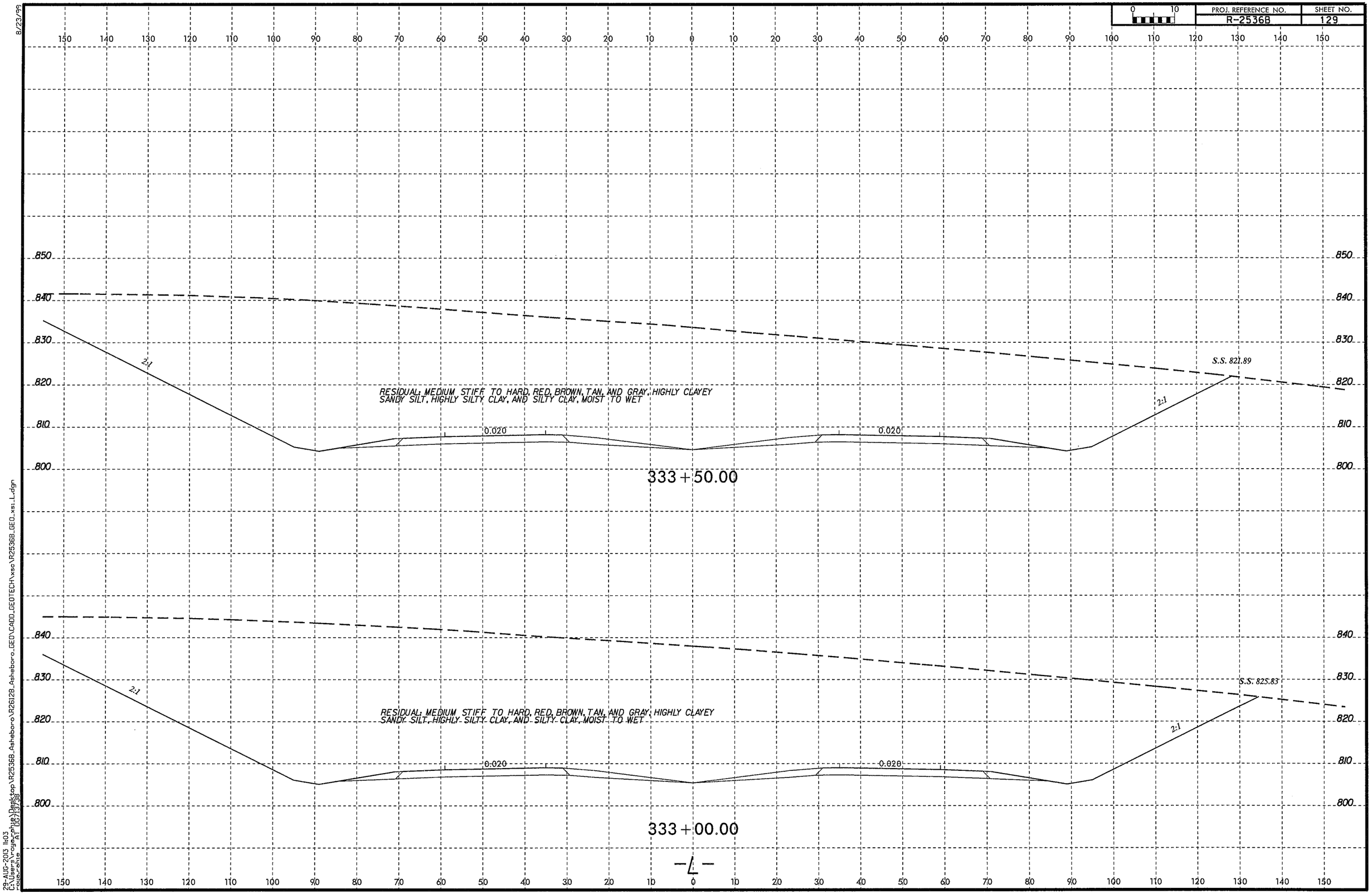
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	129



8/23/99

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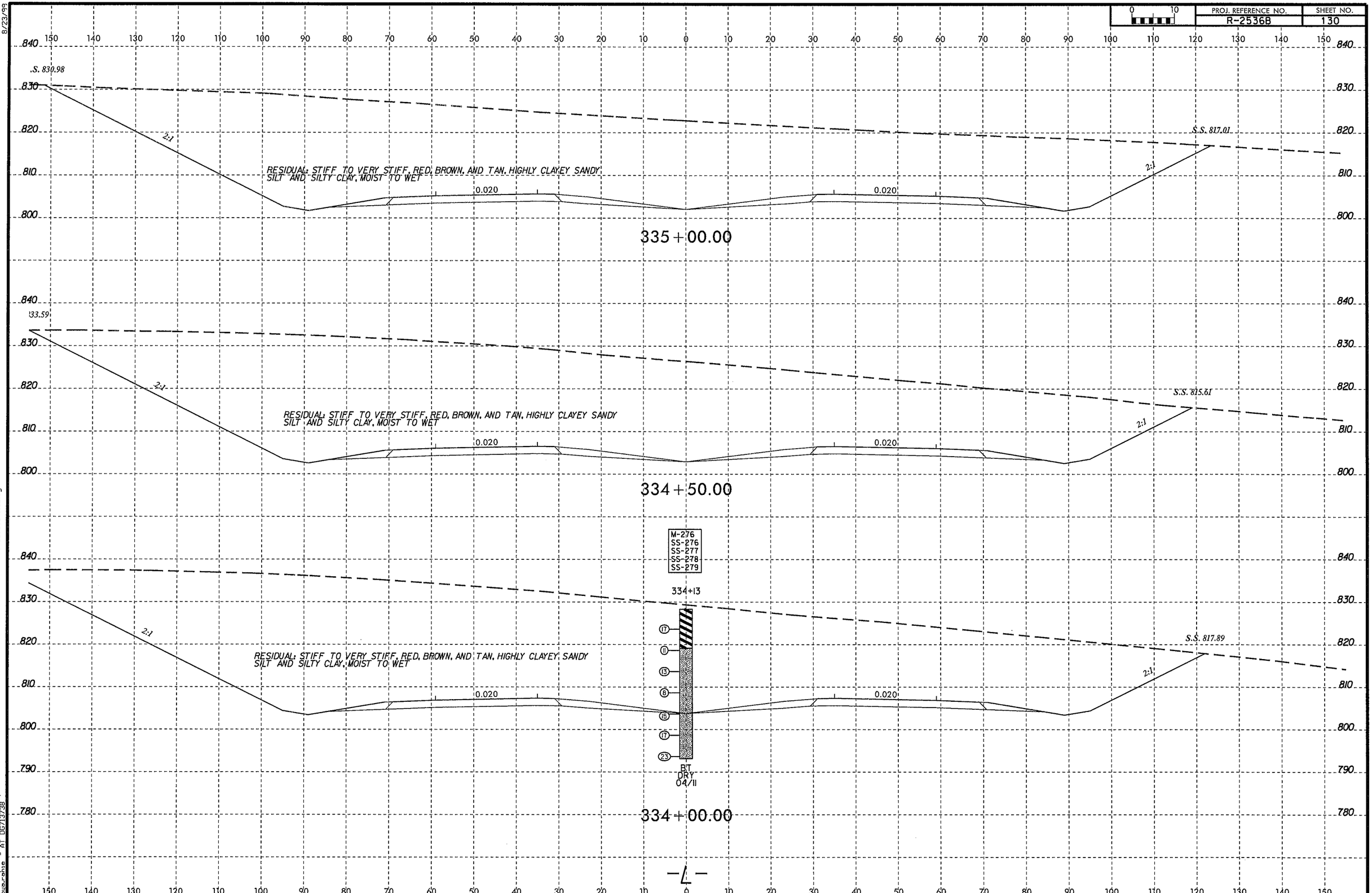
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	130



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29-AUG-2013 11:03
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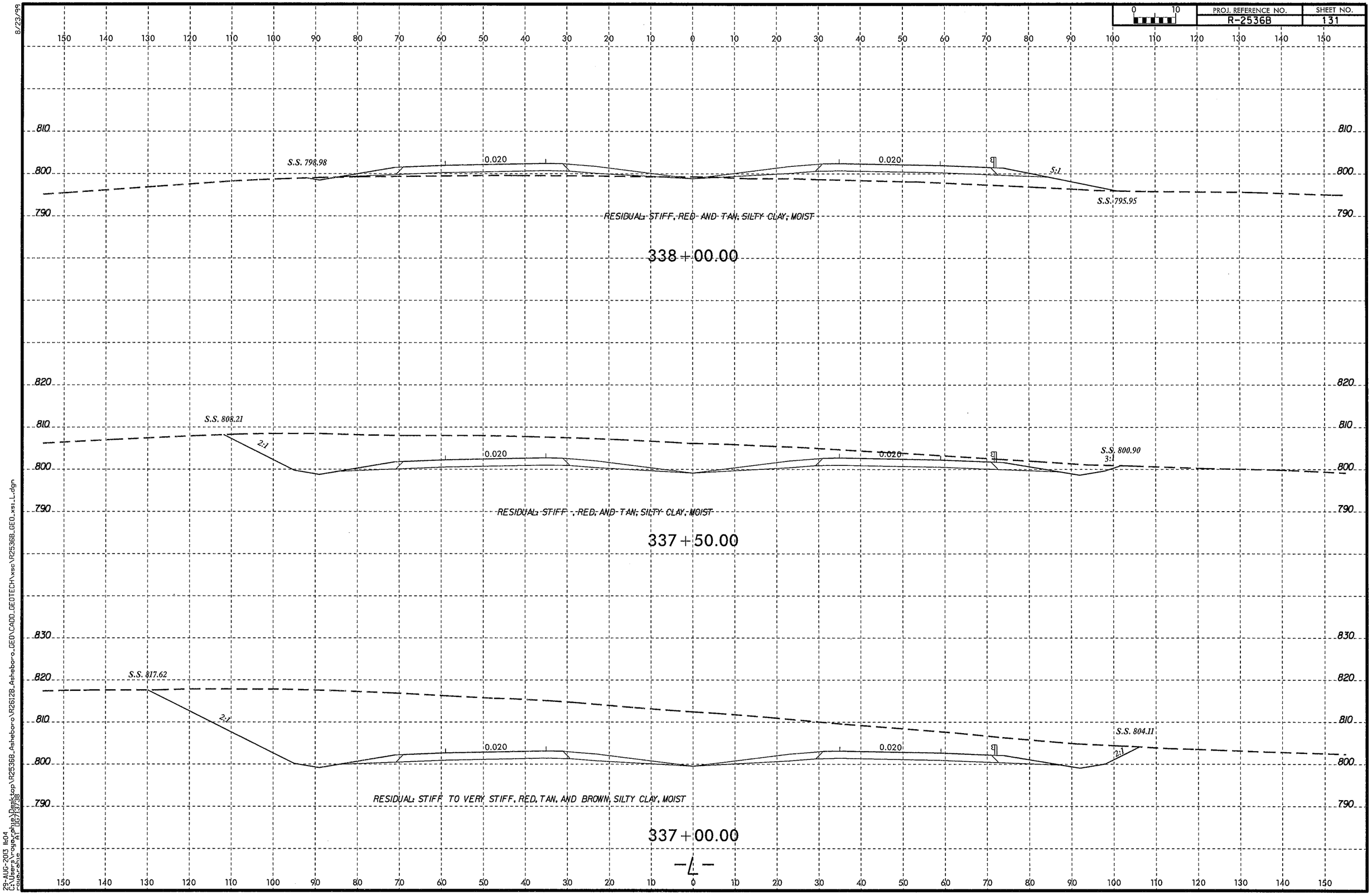
rouzephie AT DG7T3938



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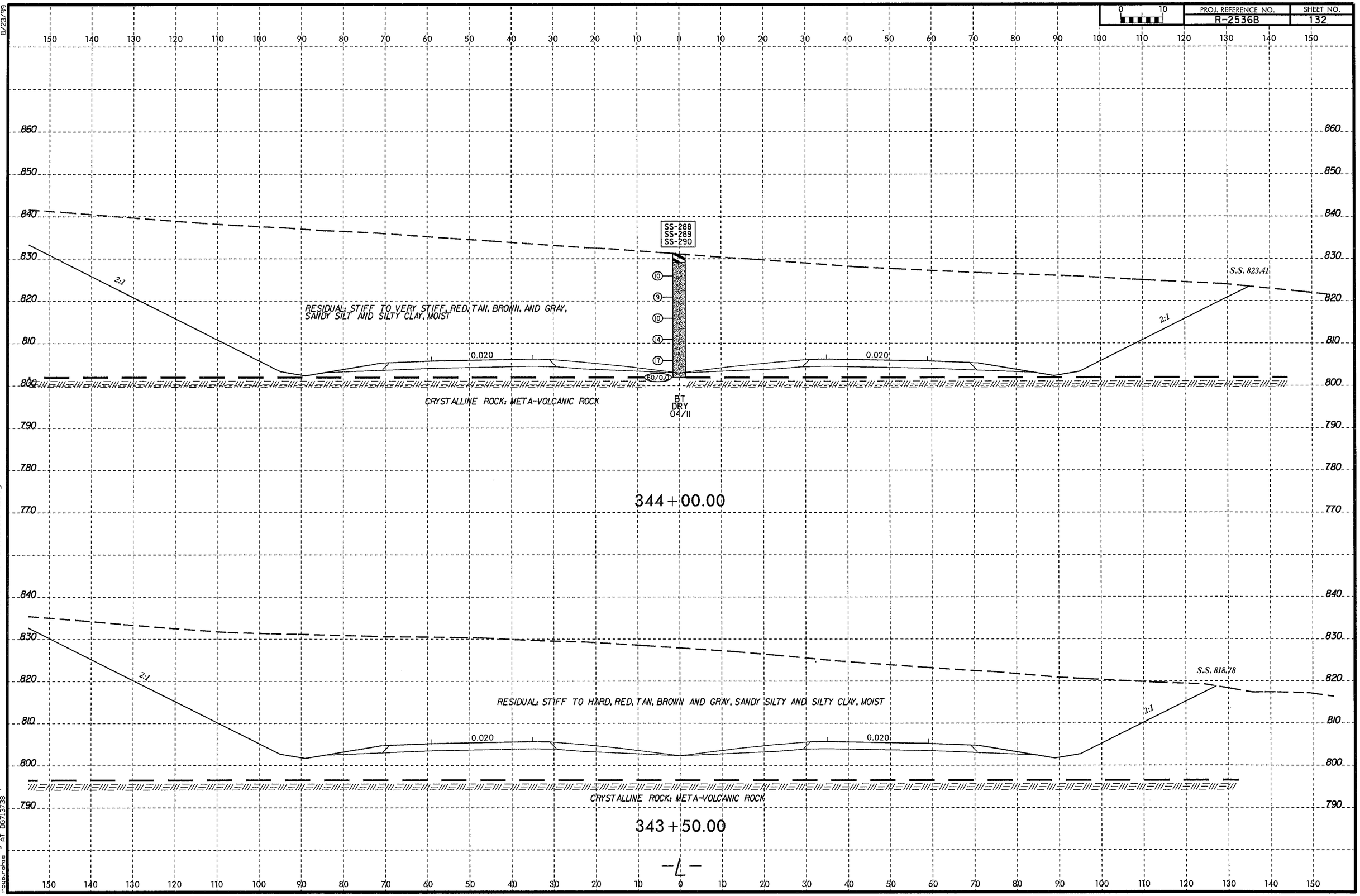
AT 100.13/38



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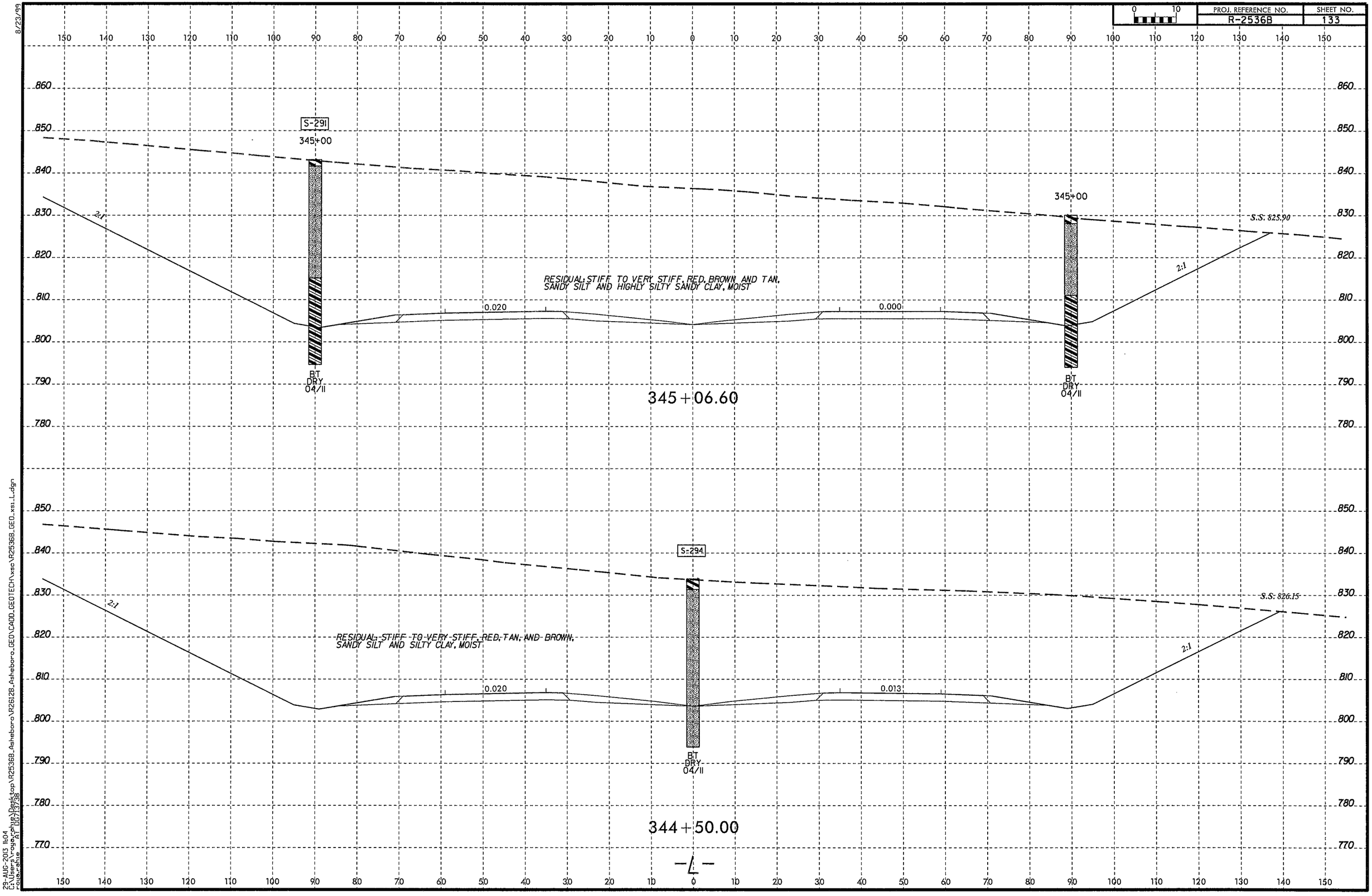
AT DG713738

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	133



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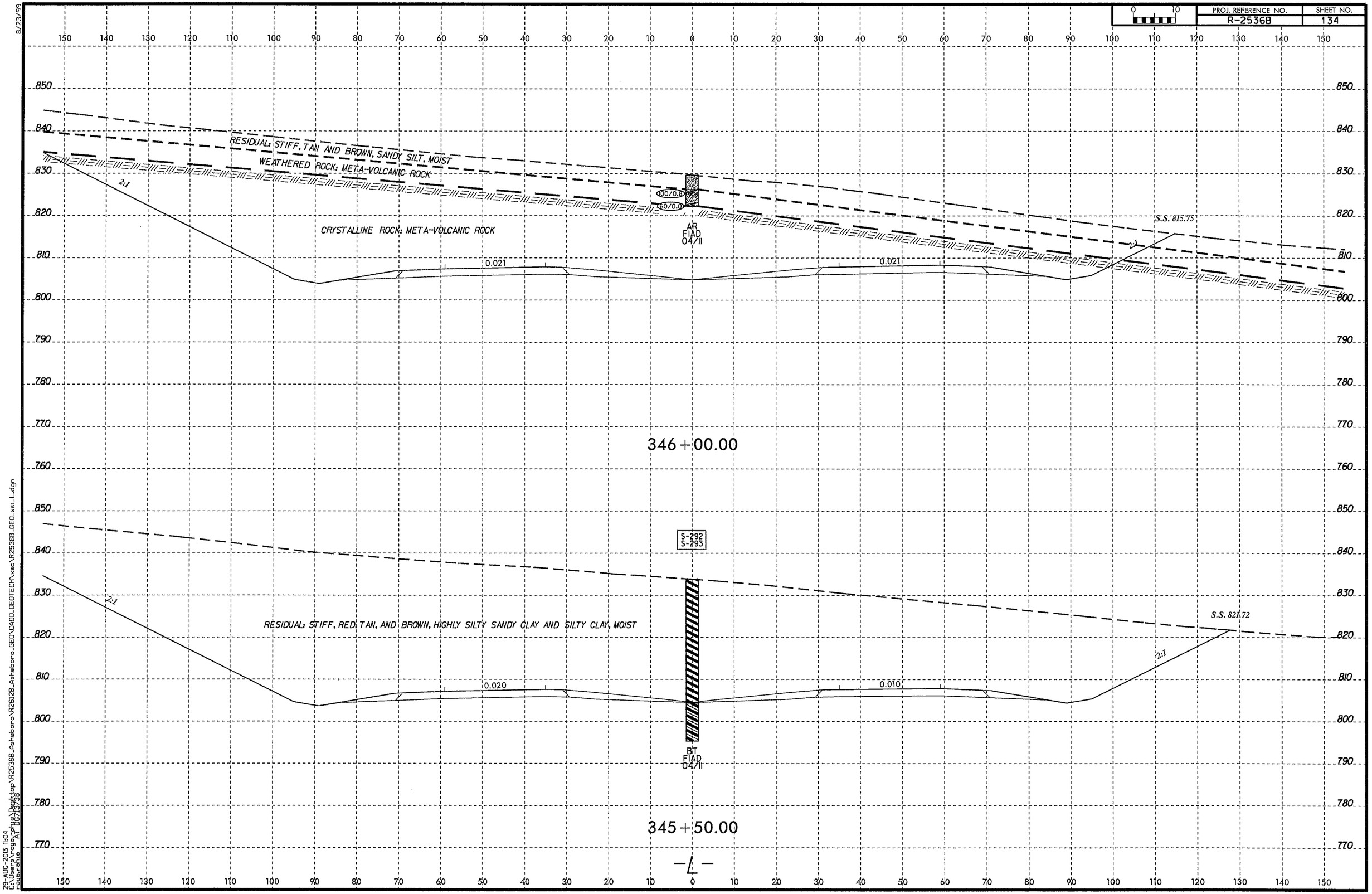

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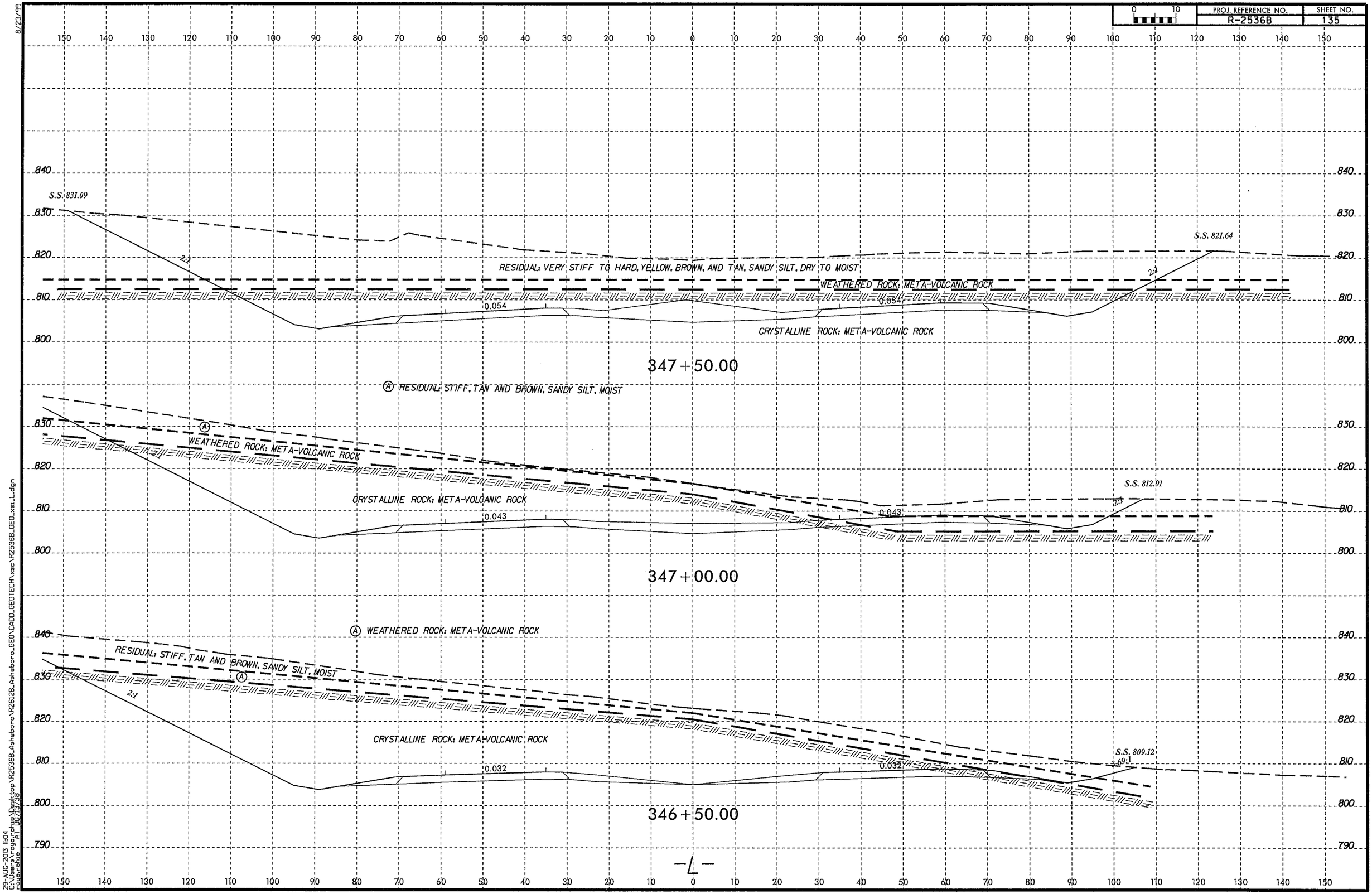
AT DB713738



8/23/99

29-AUG-2013 14:04
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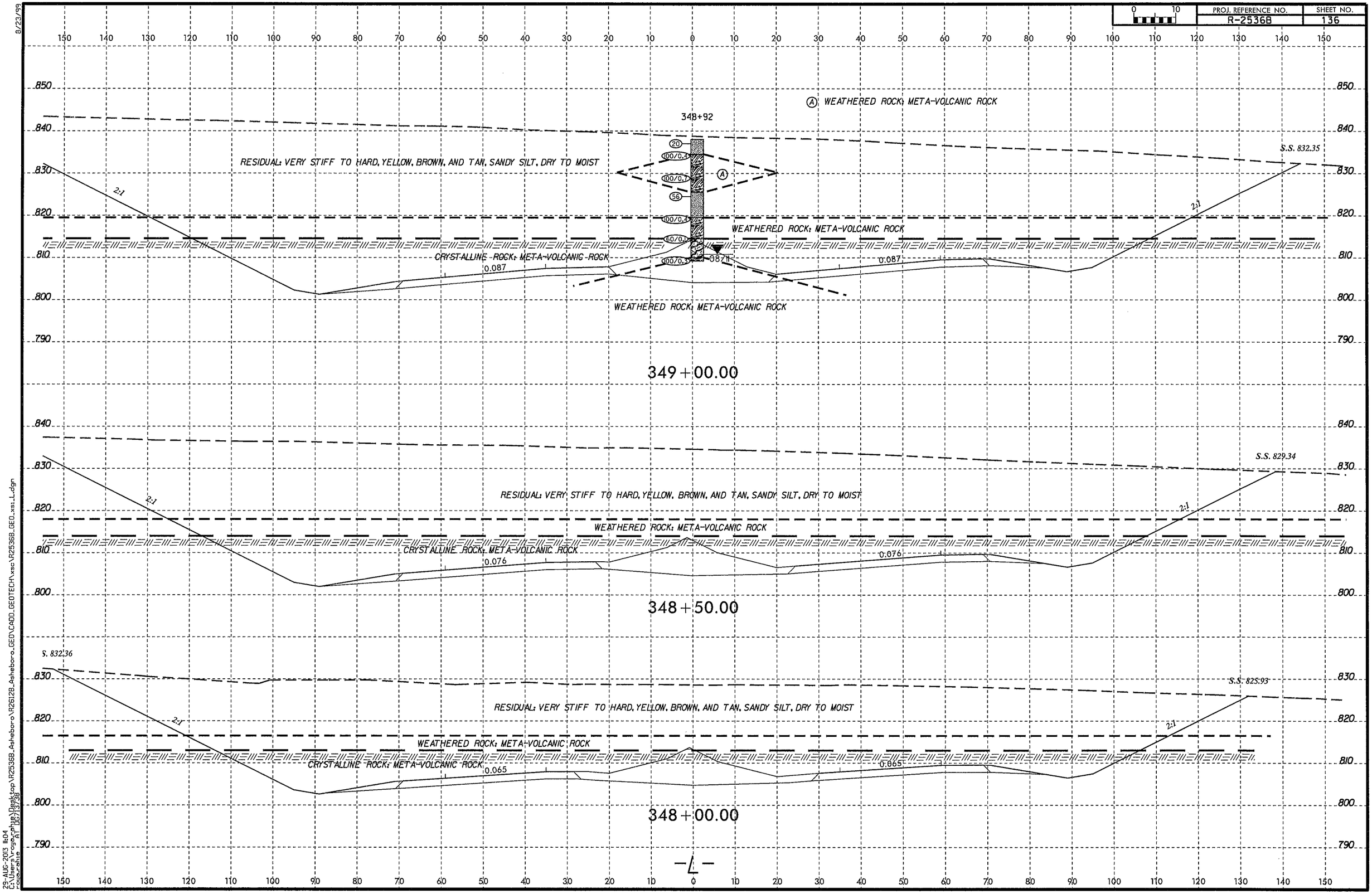
AT 08/13/38



8/23/99

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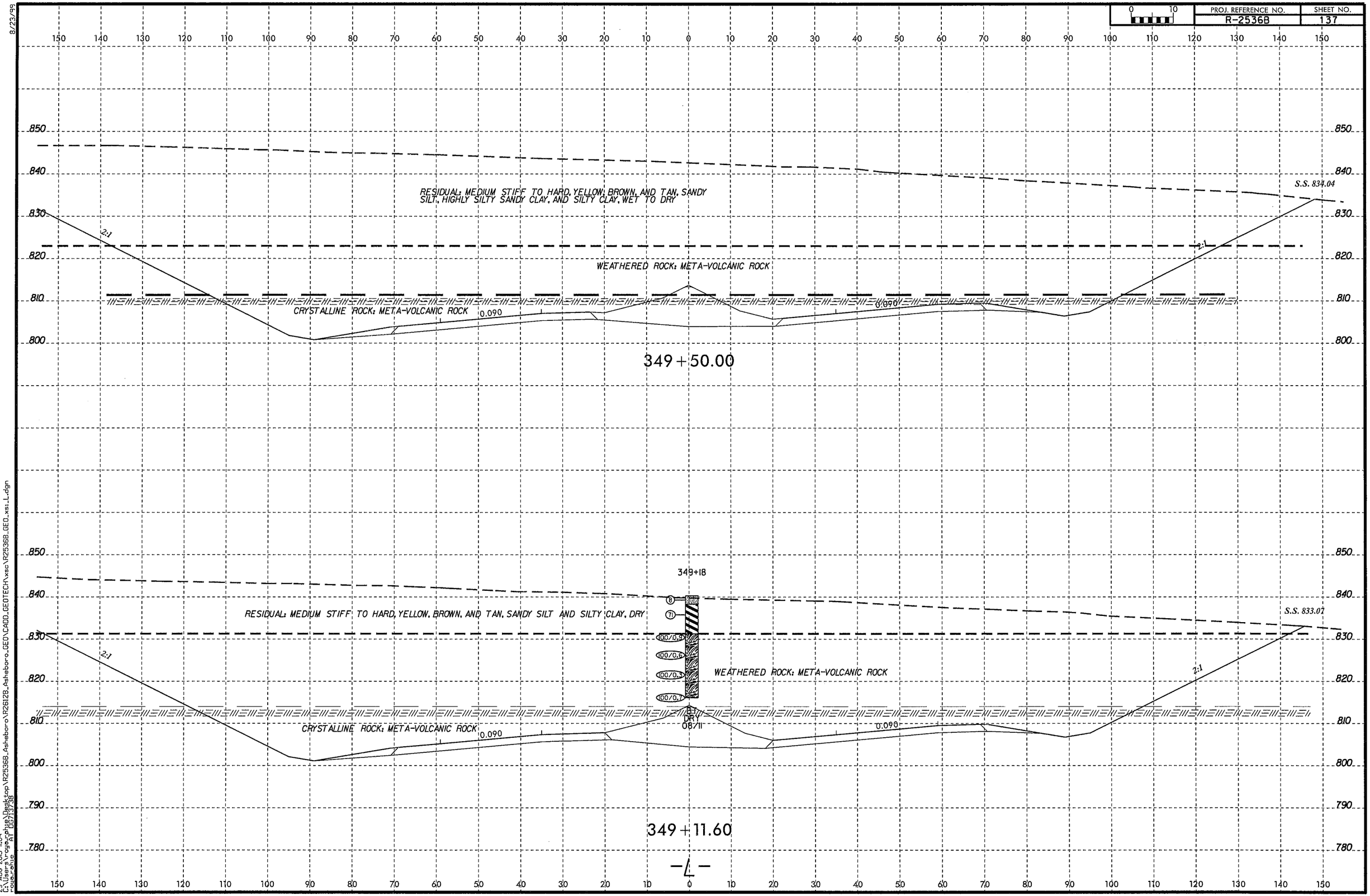
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	137



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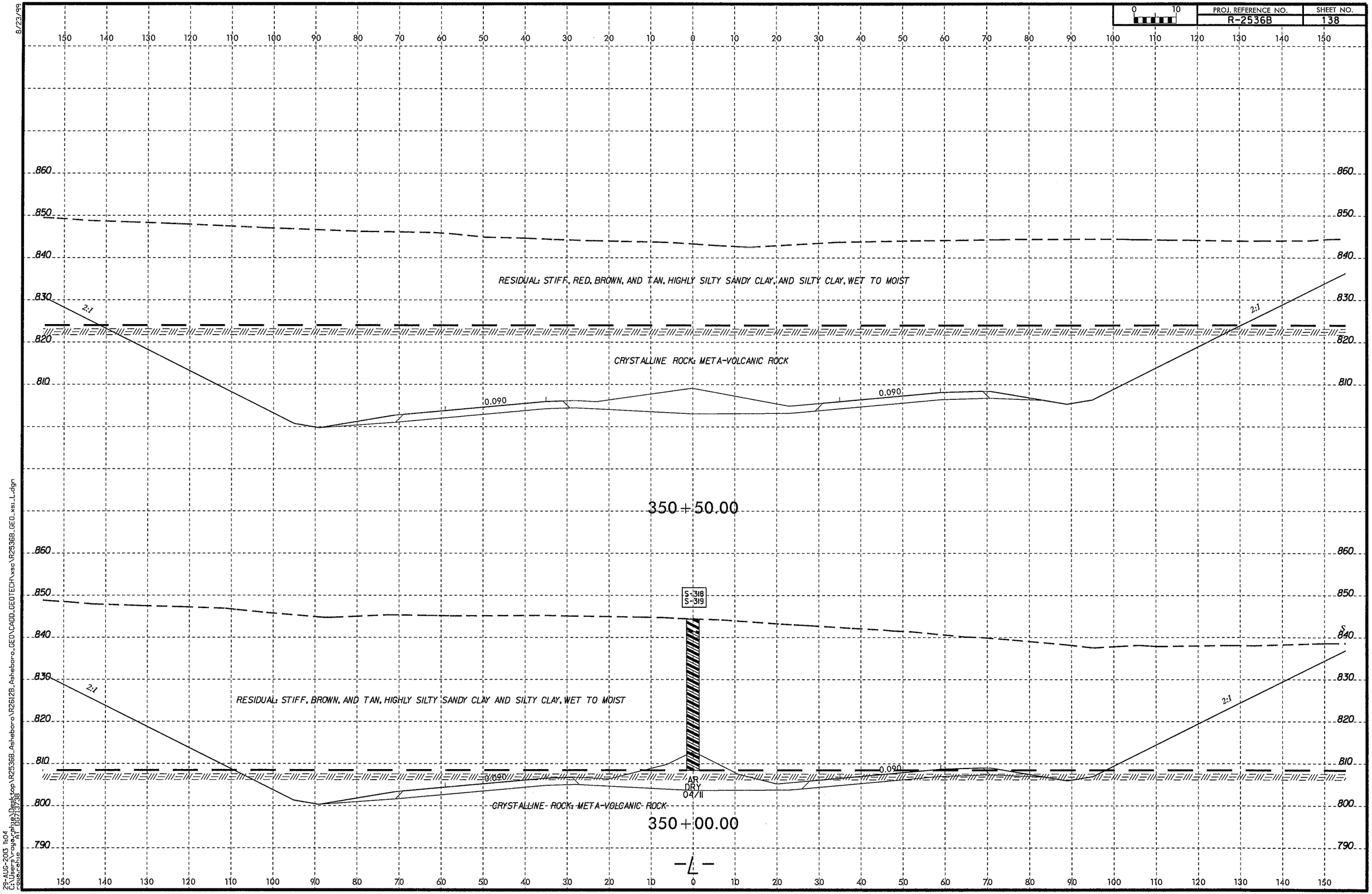
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	138



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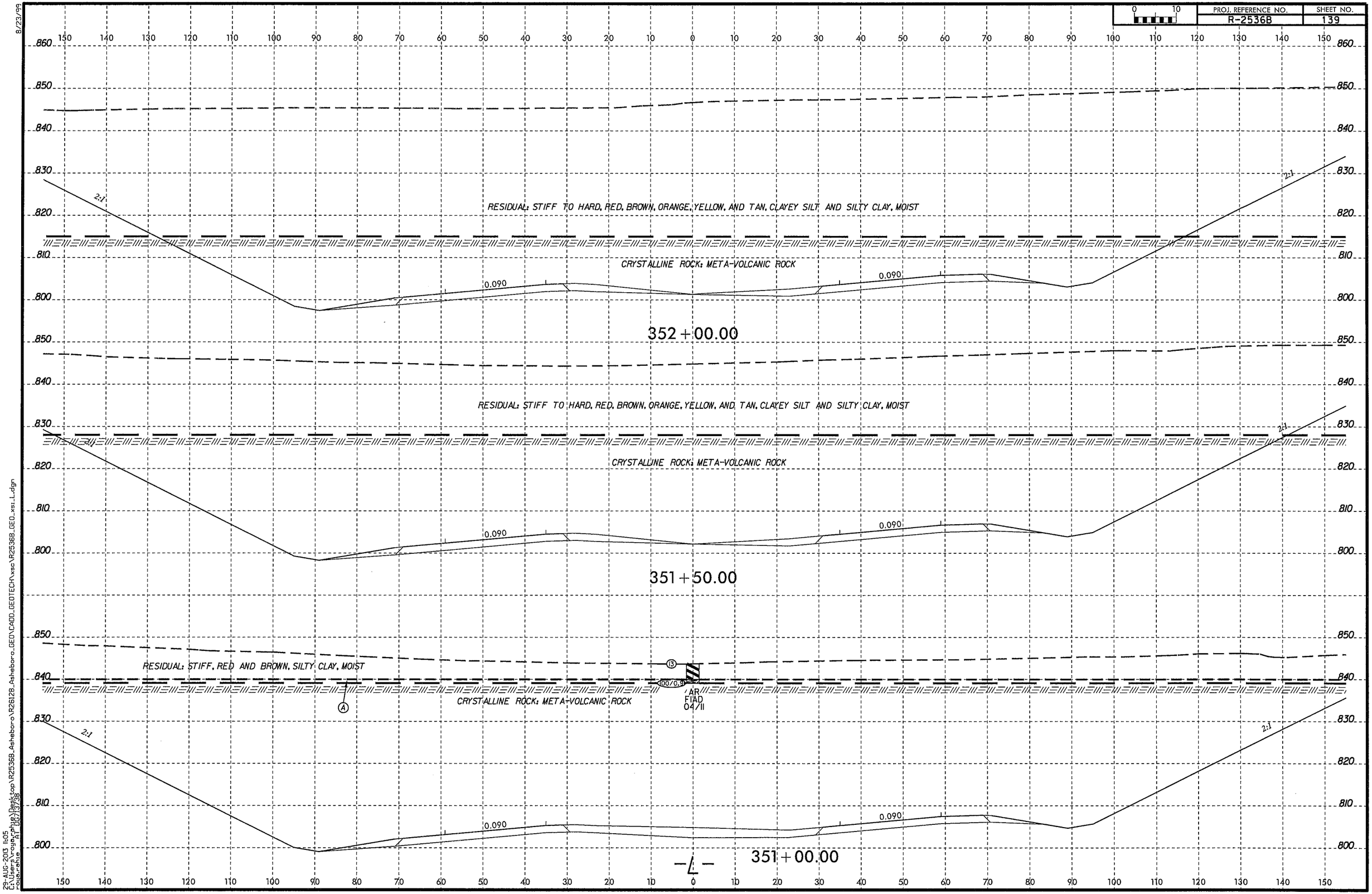

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AT DG/13/38

8/23/99

PROJ. REFERENCE NO.	SHEET NO.
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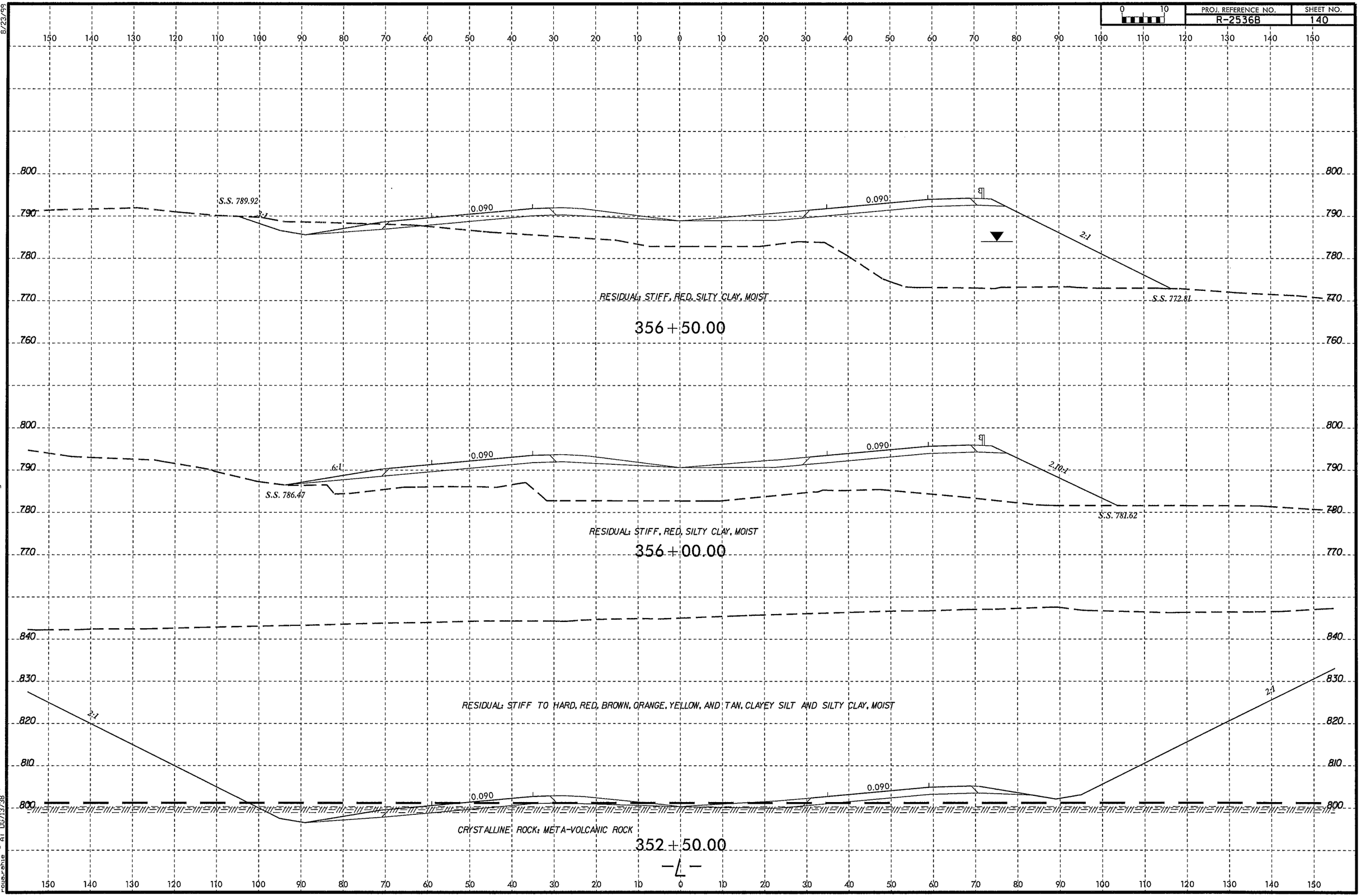

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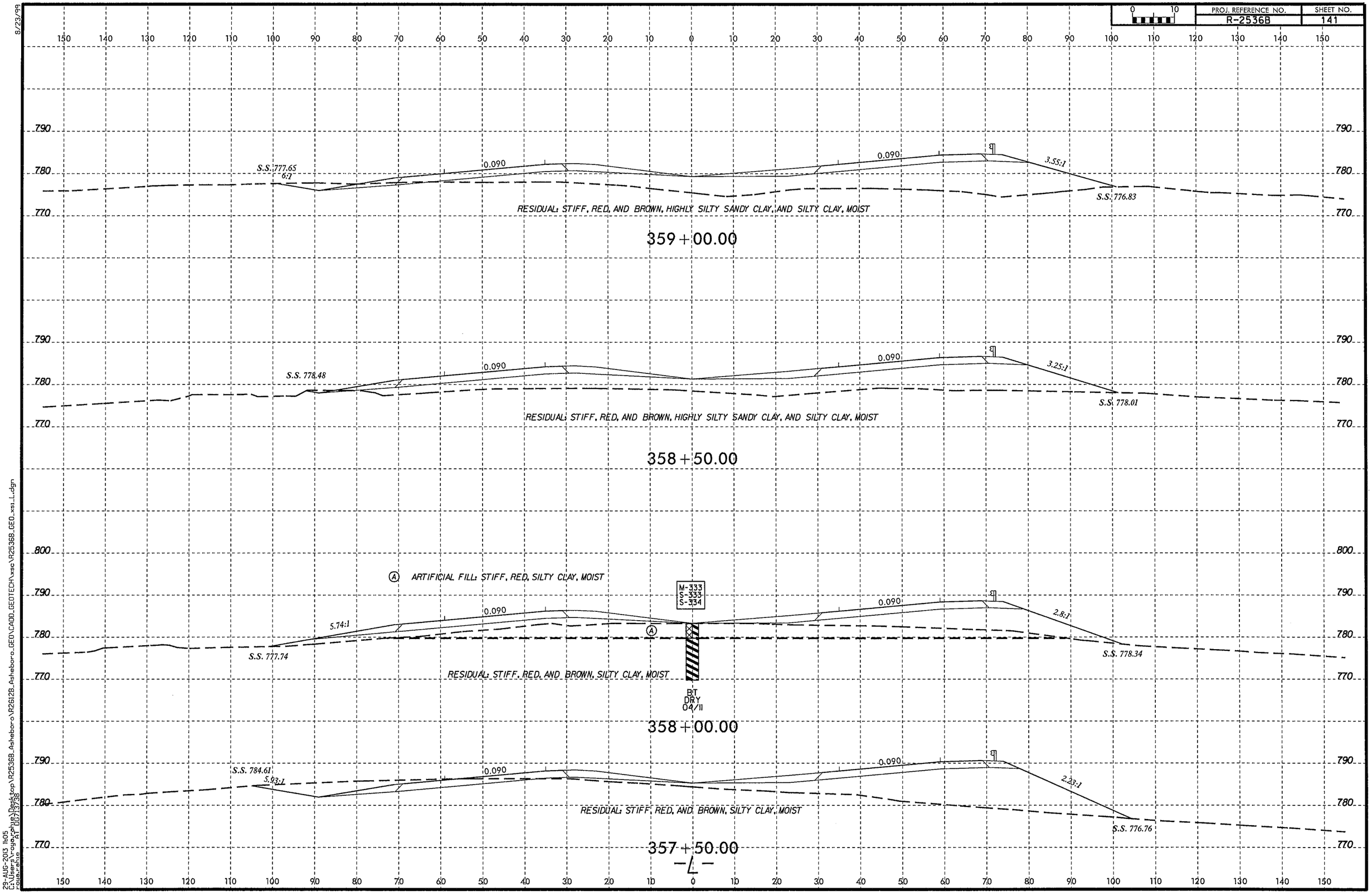
Alt D8/13/98



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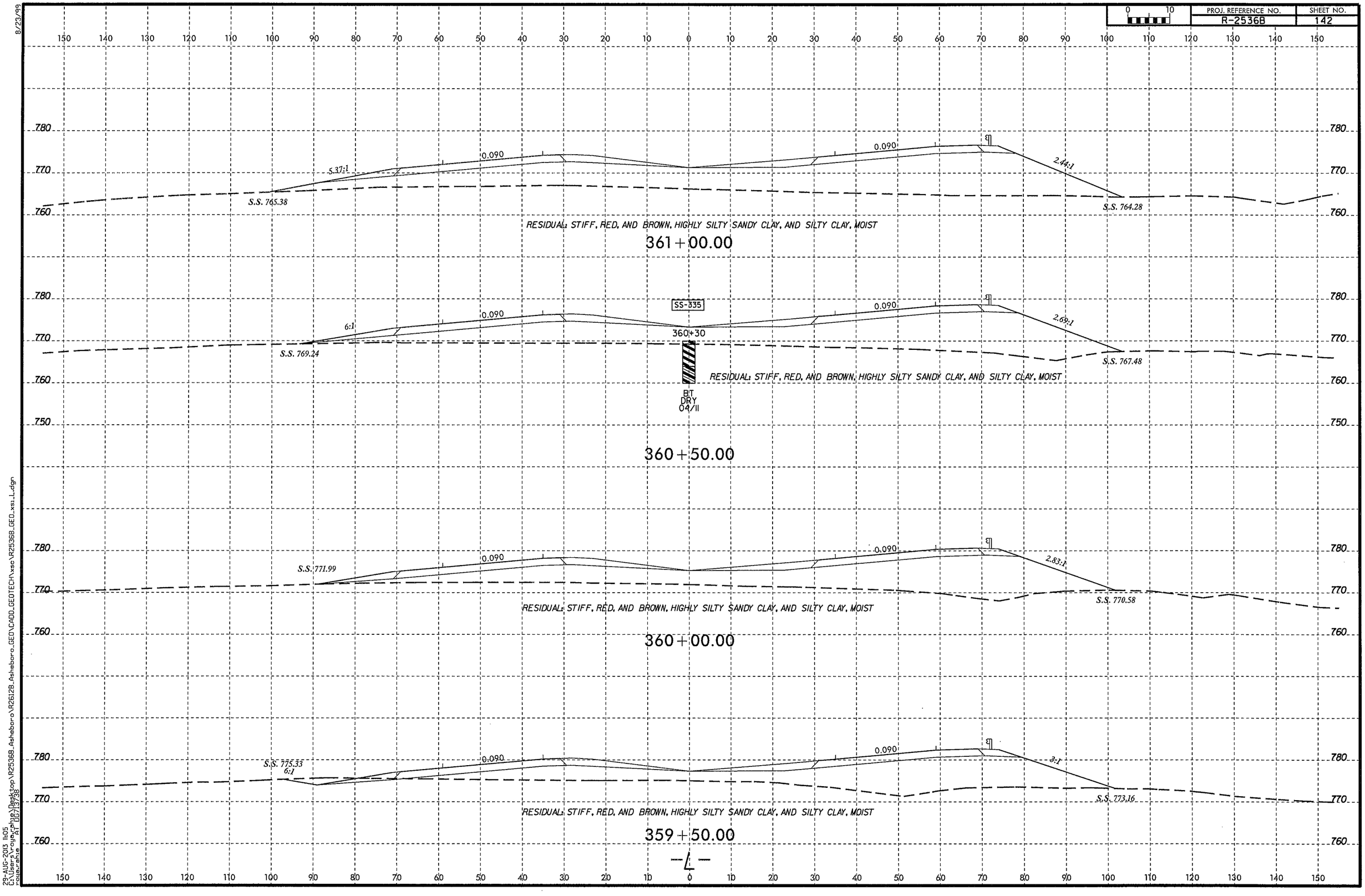

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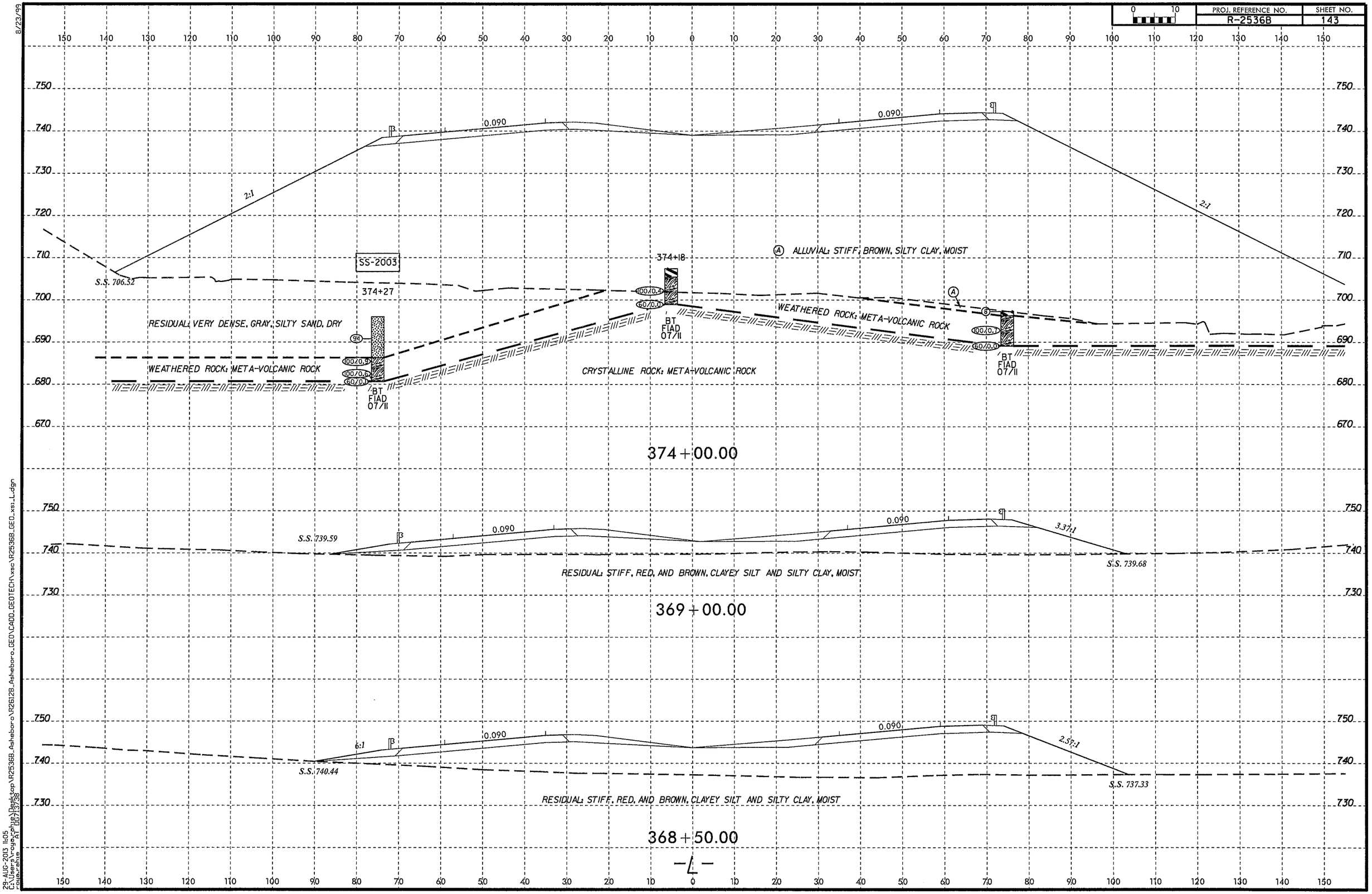
AT DS\13738



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PROJ. REFERENCE NO.	SHEET NO.
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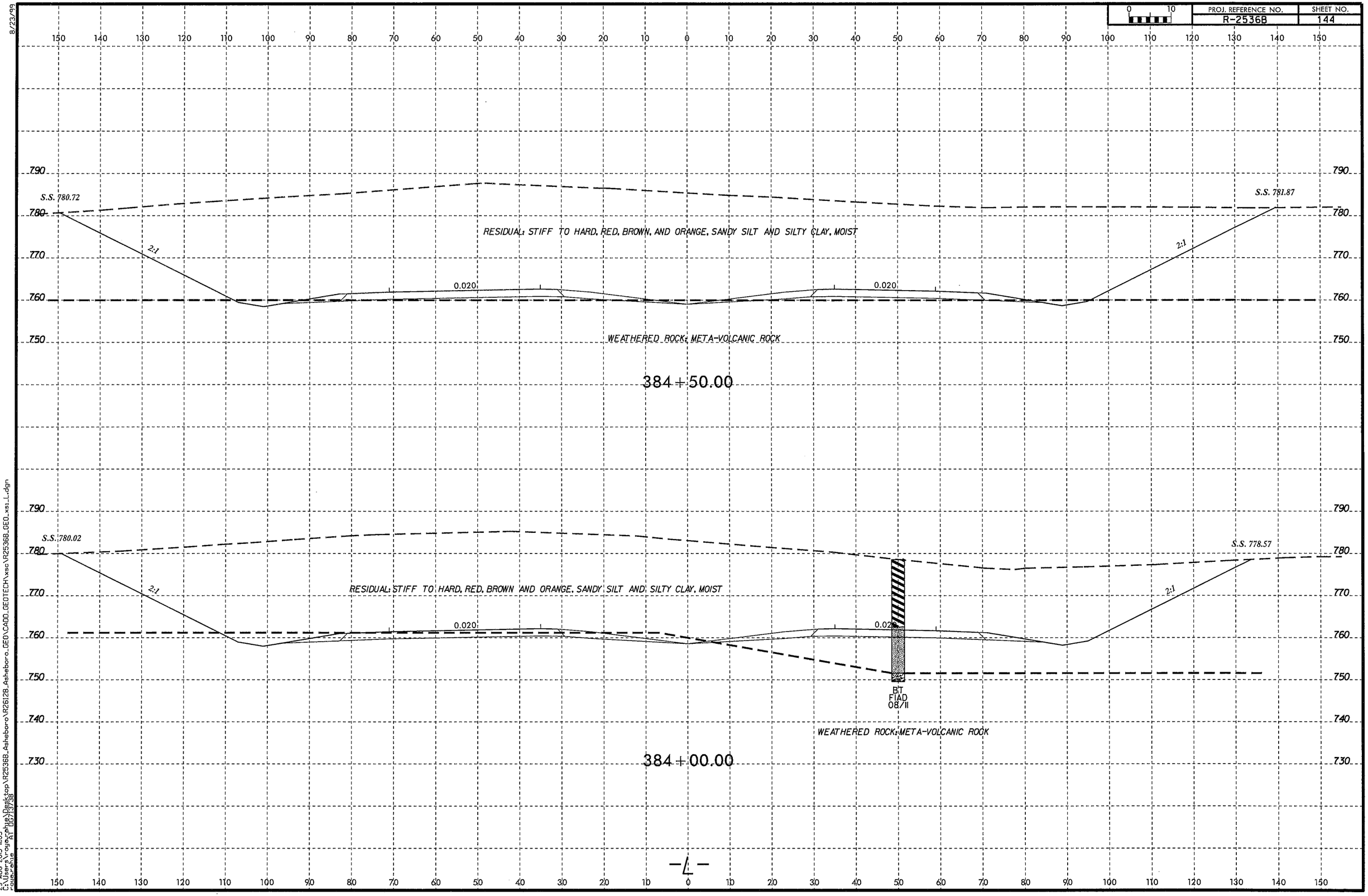

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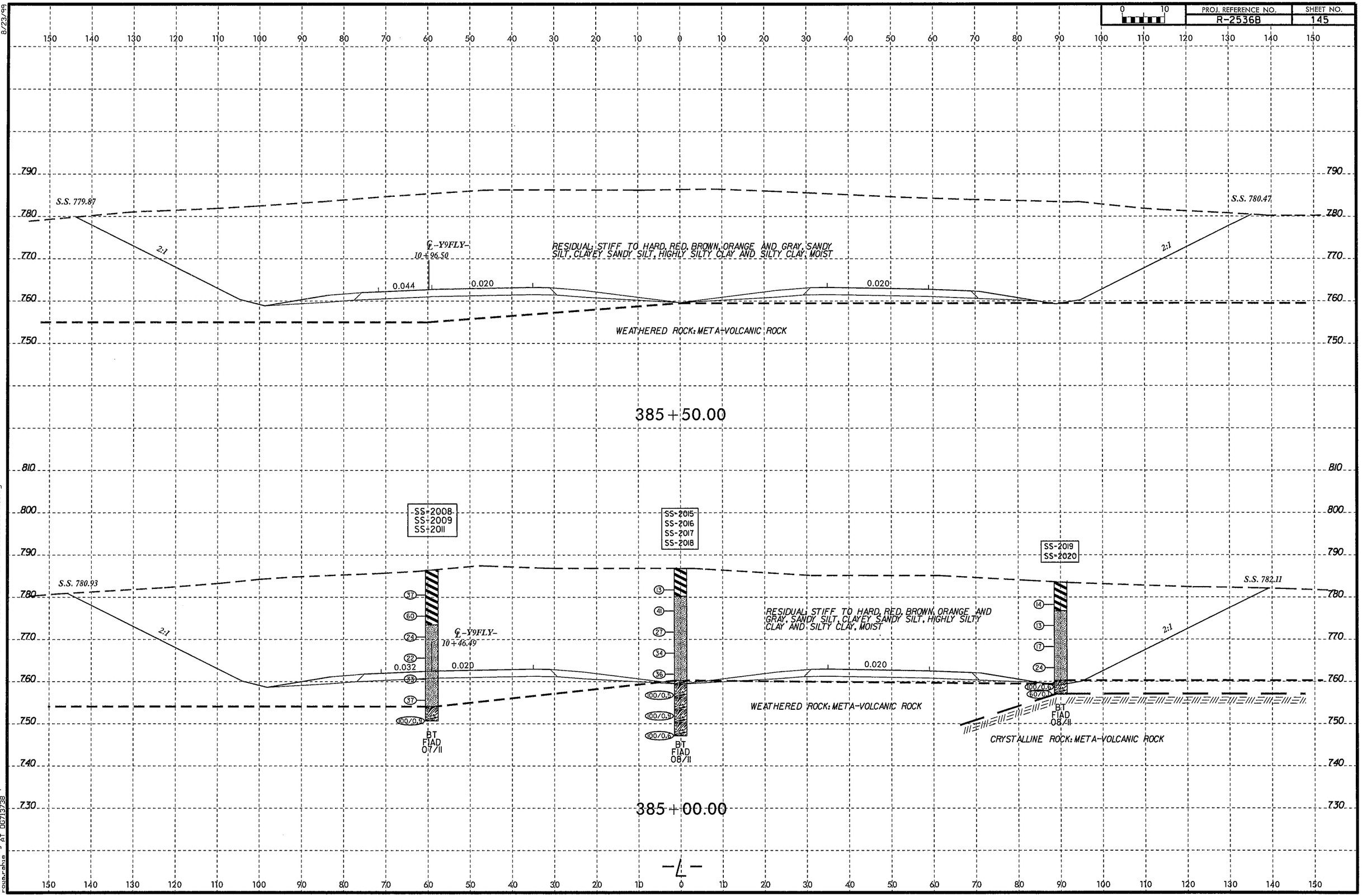

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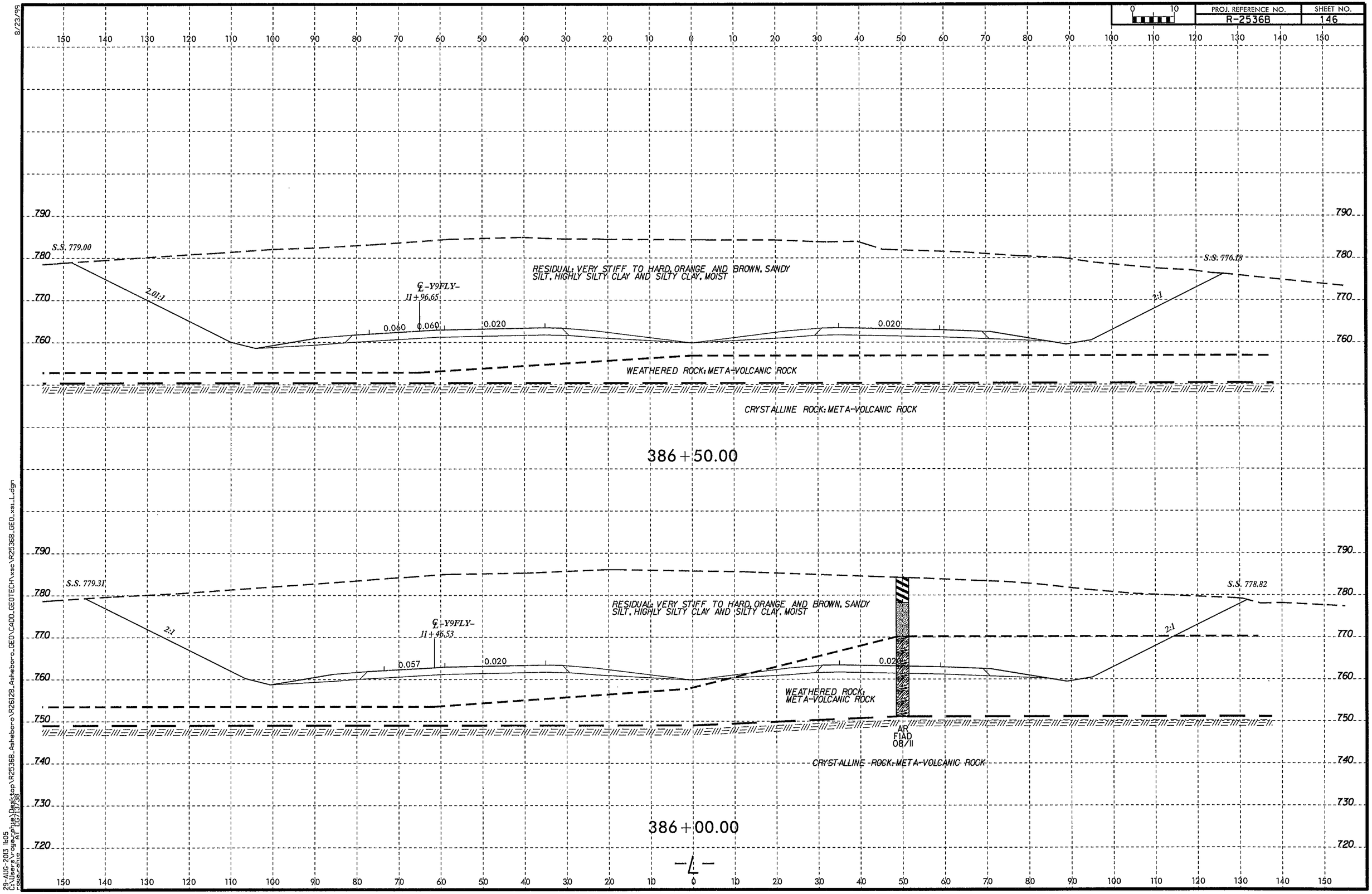

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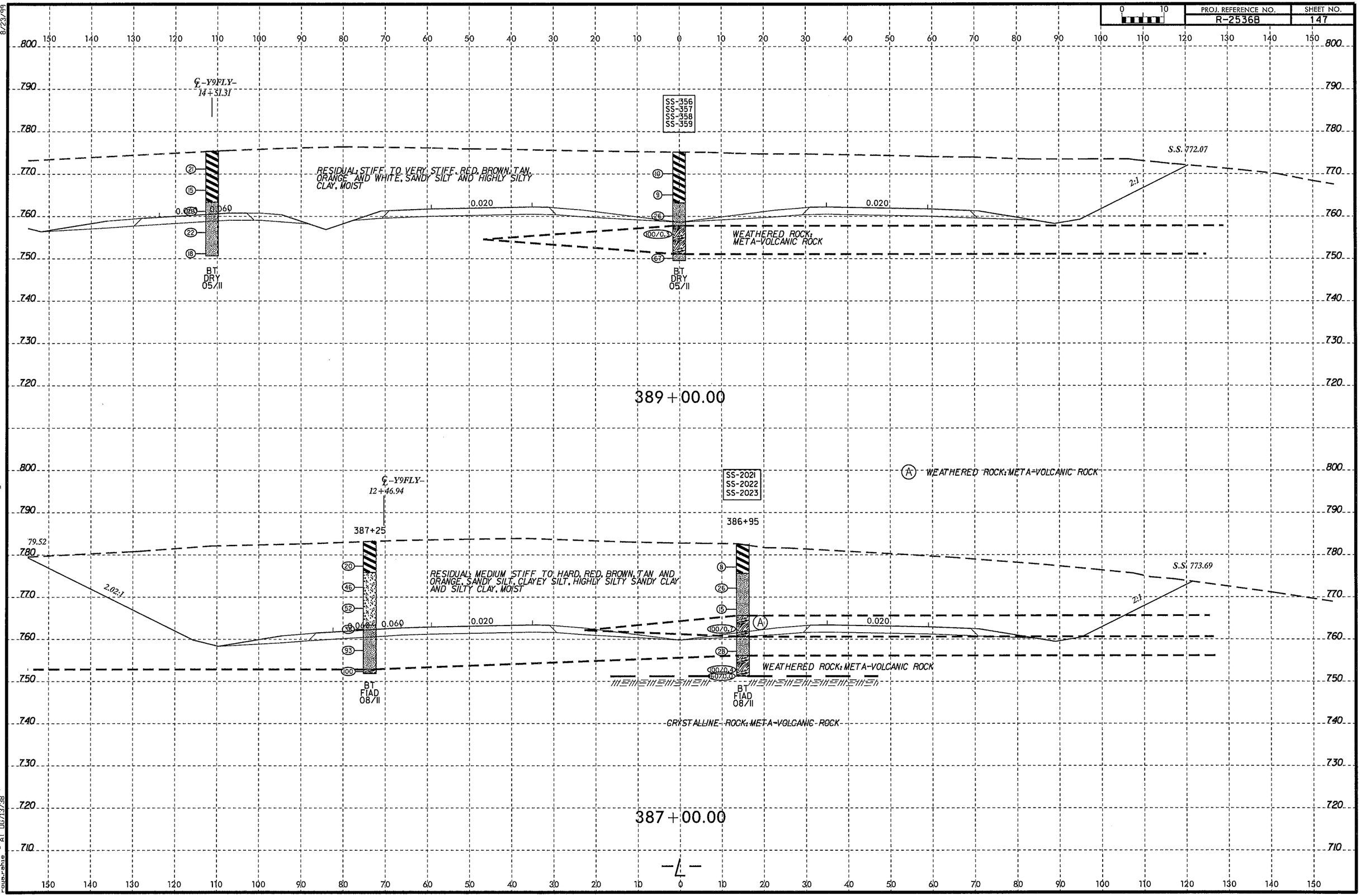

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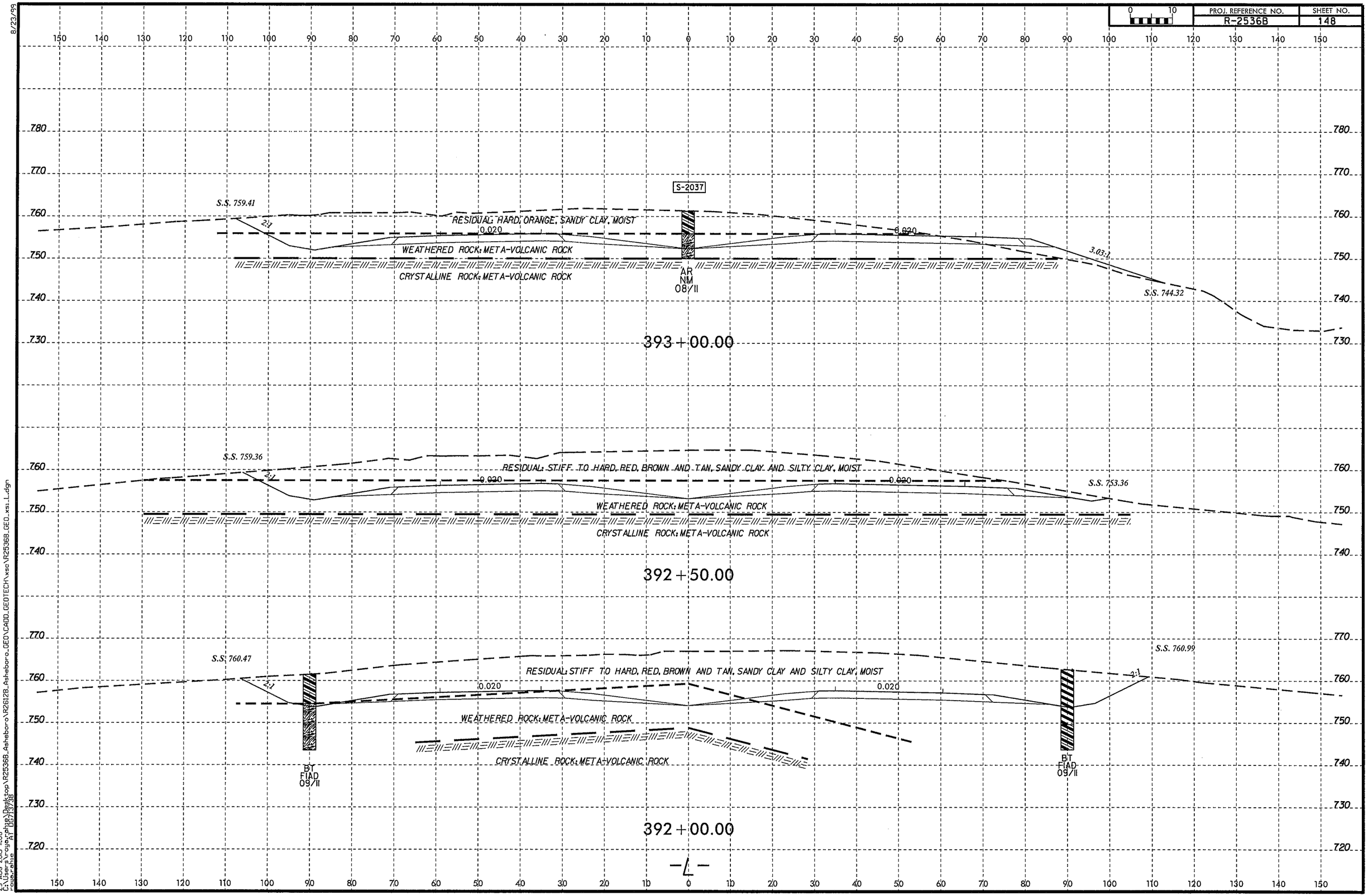

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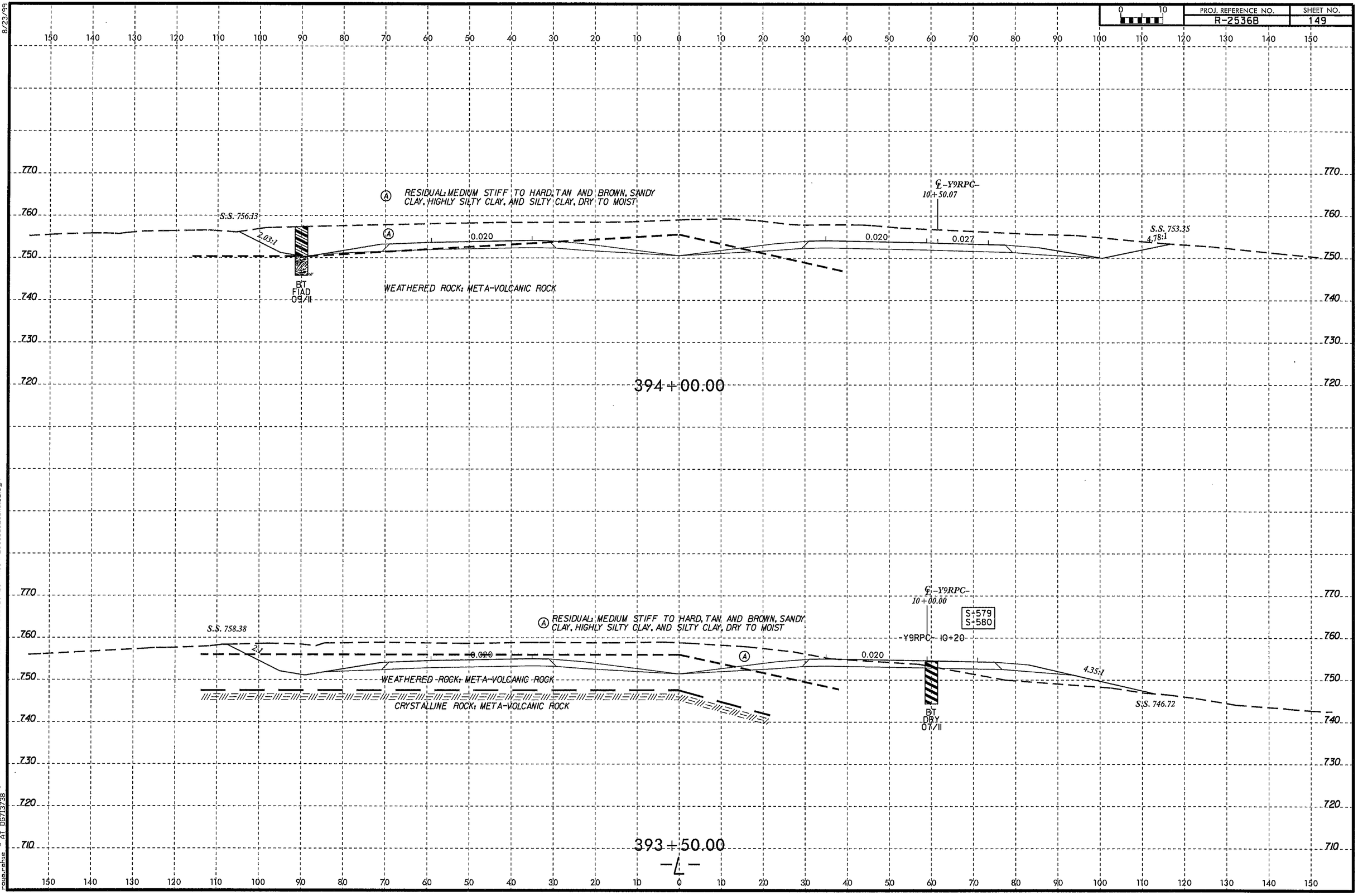
AT DB/13/38



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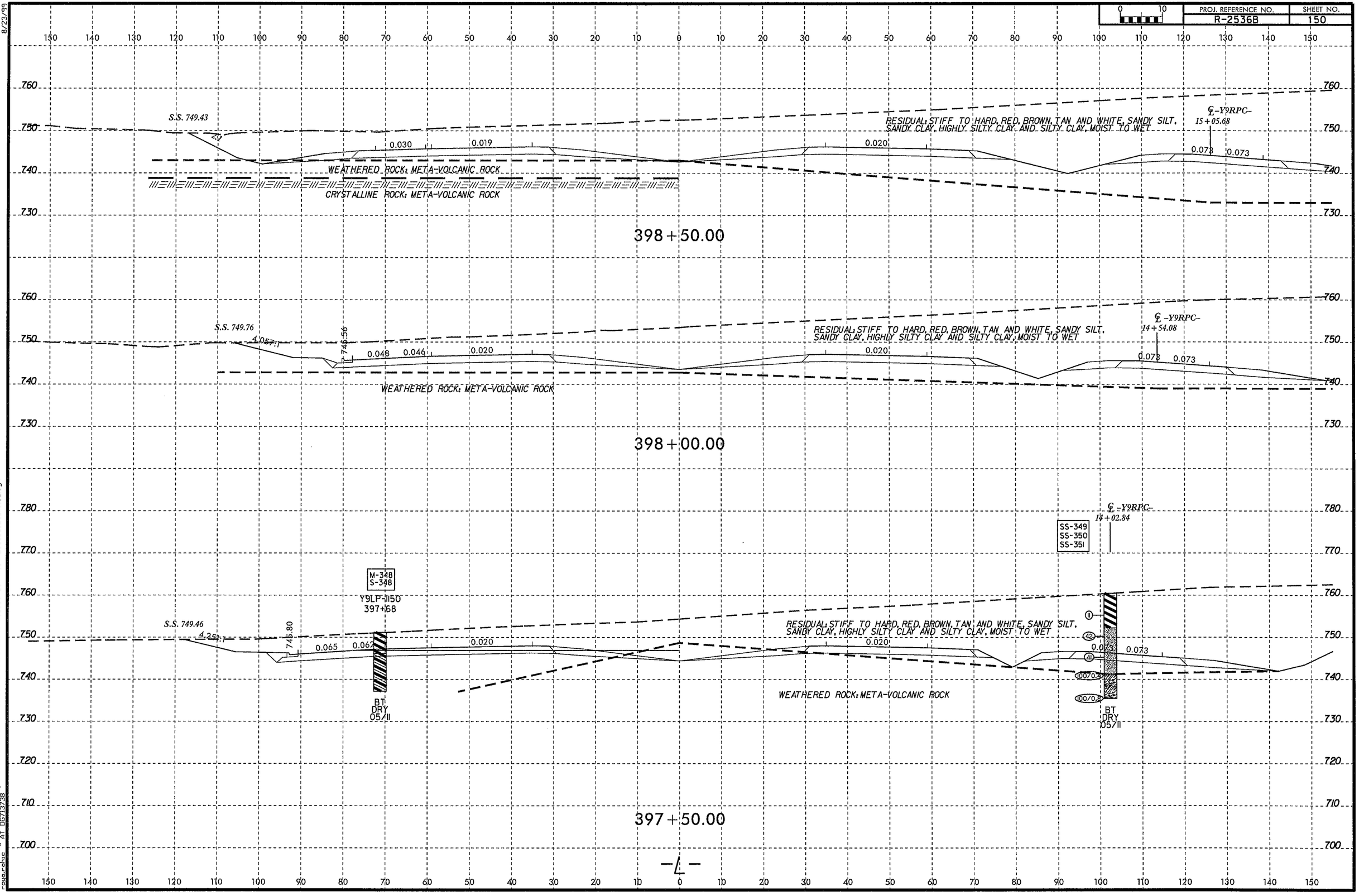
AT (35/35)



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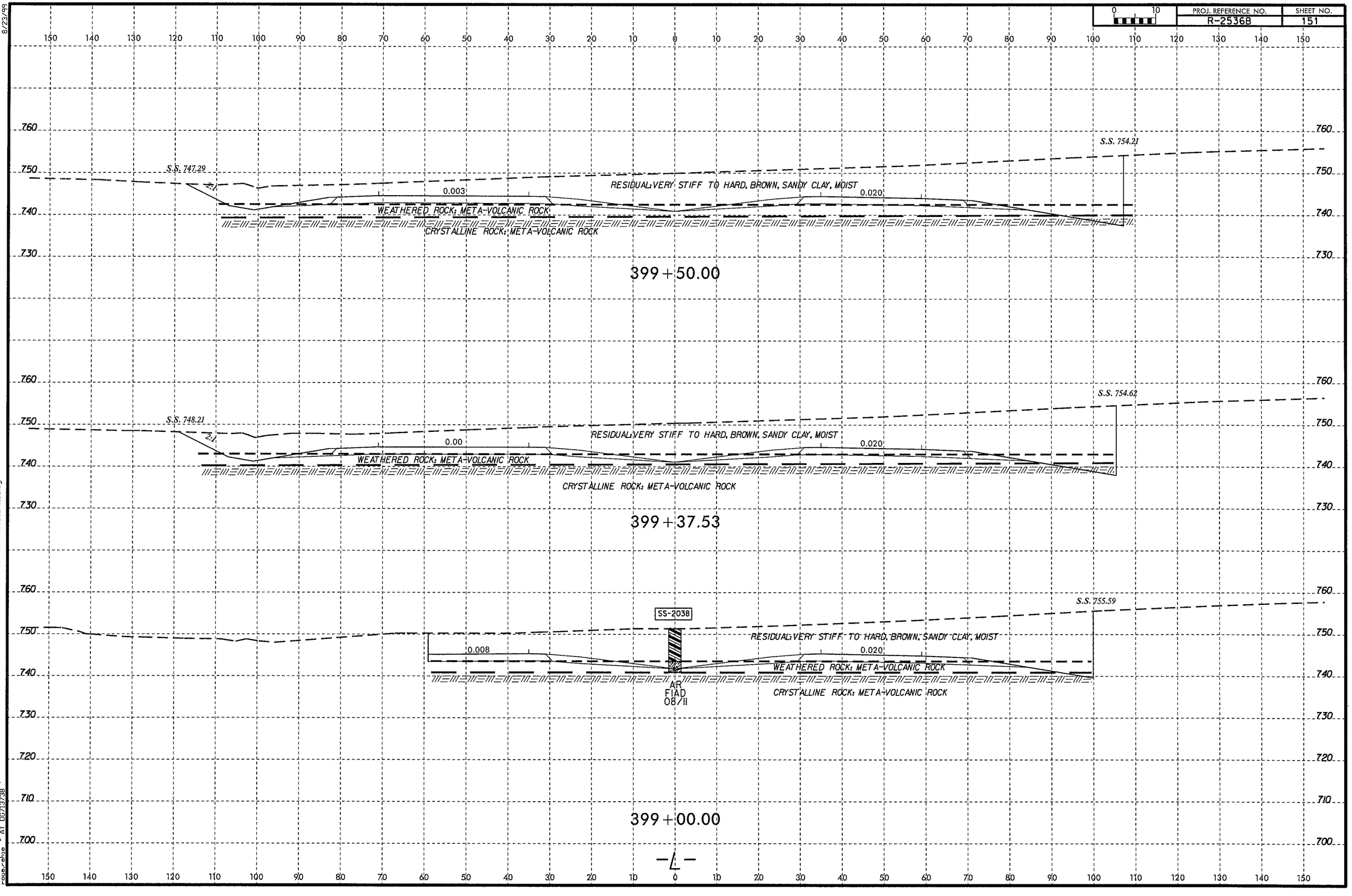

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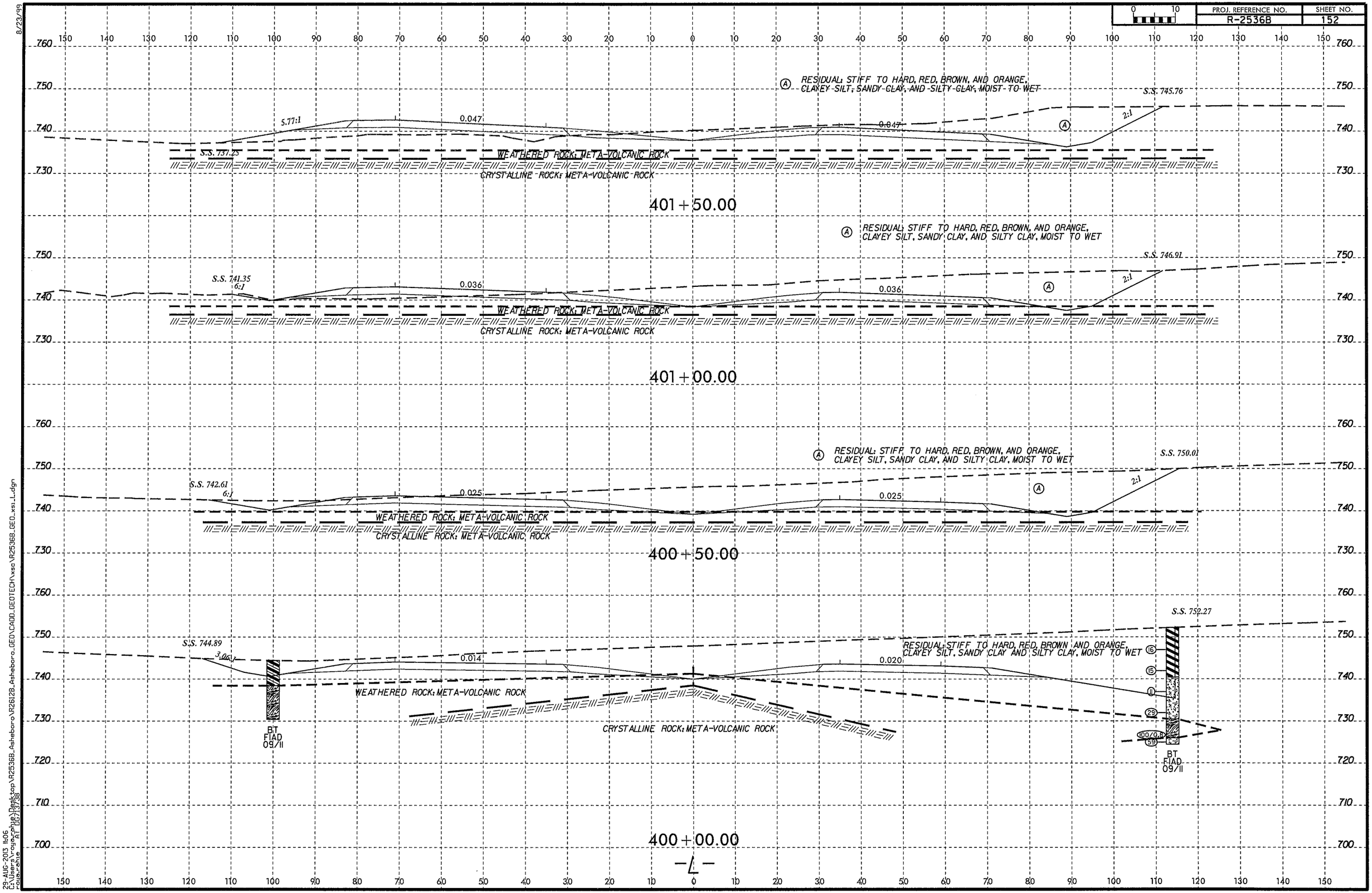
R1 05/13/98



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PROJ. REFERENCE NO.	SHEET NO.
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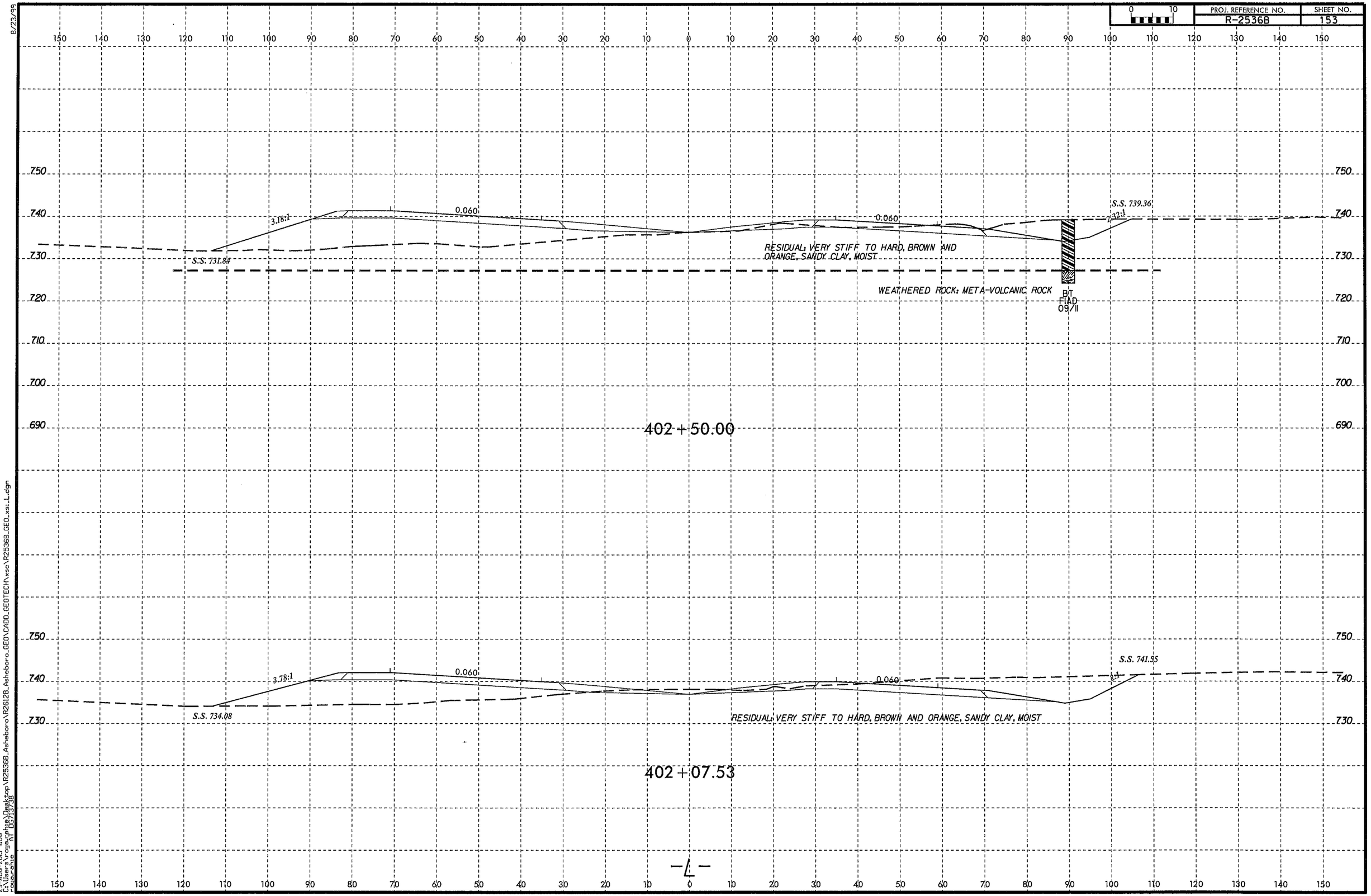

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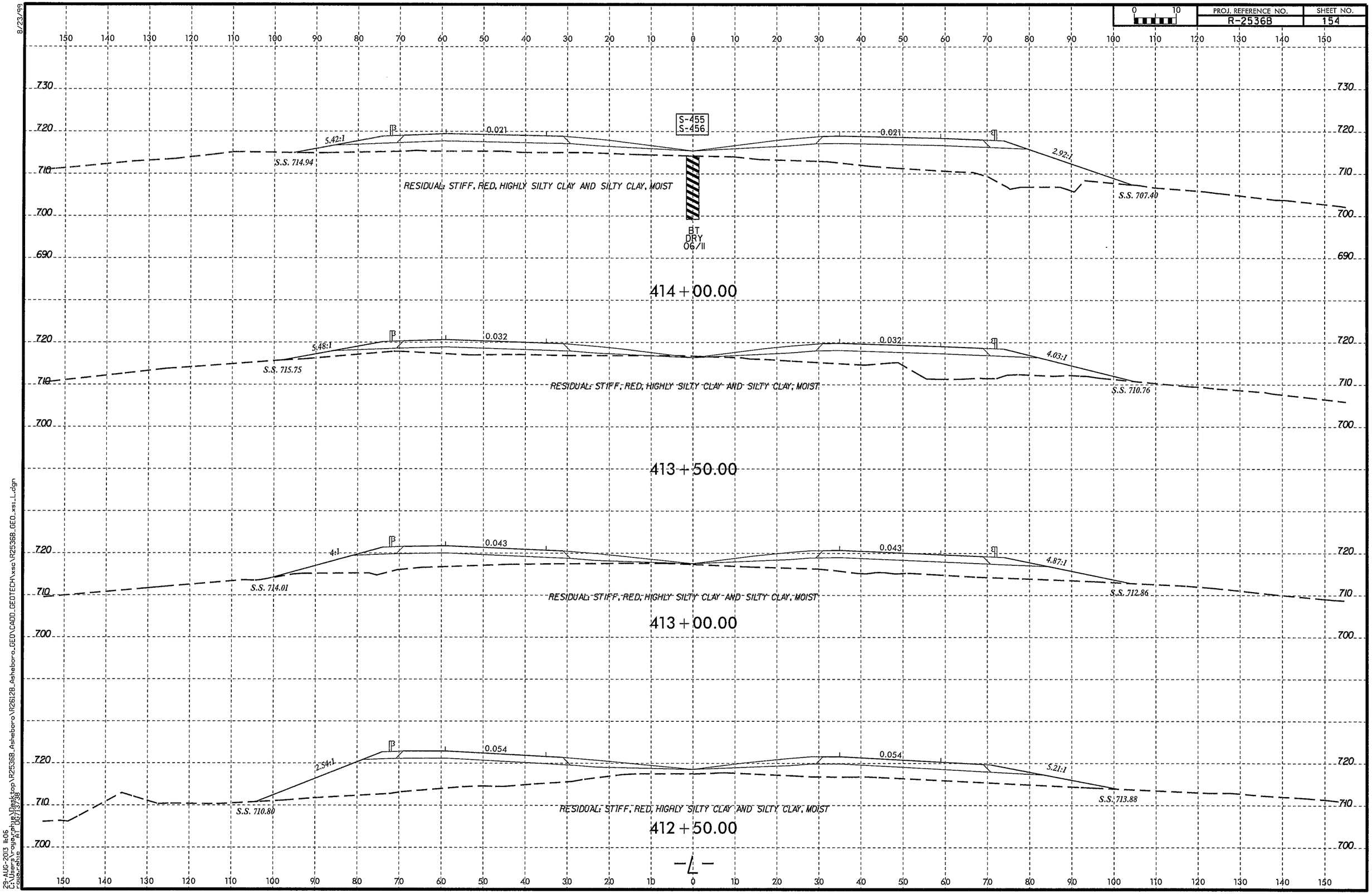

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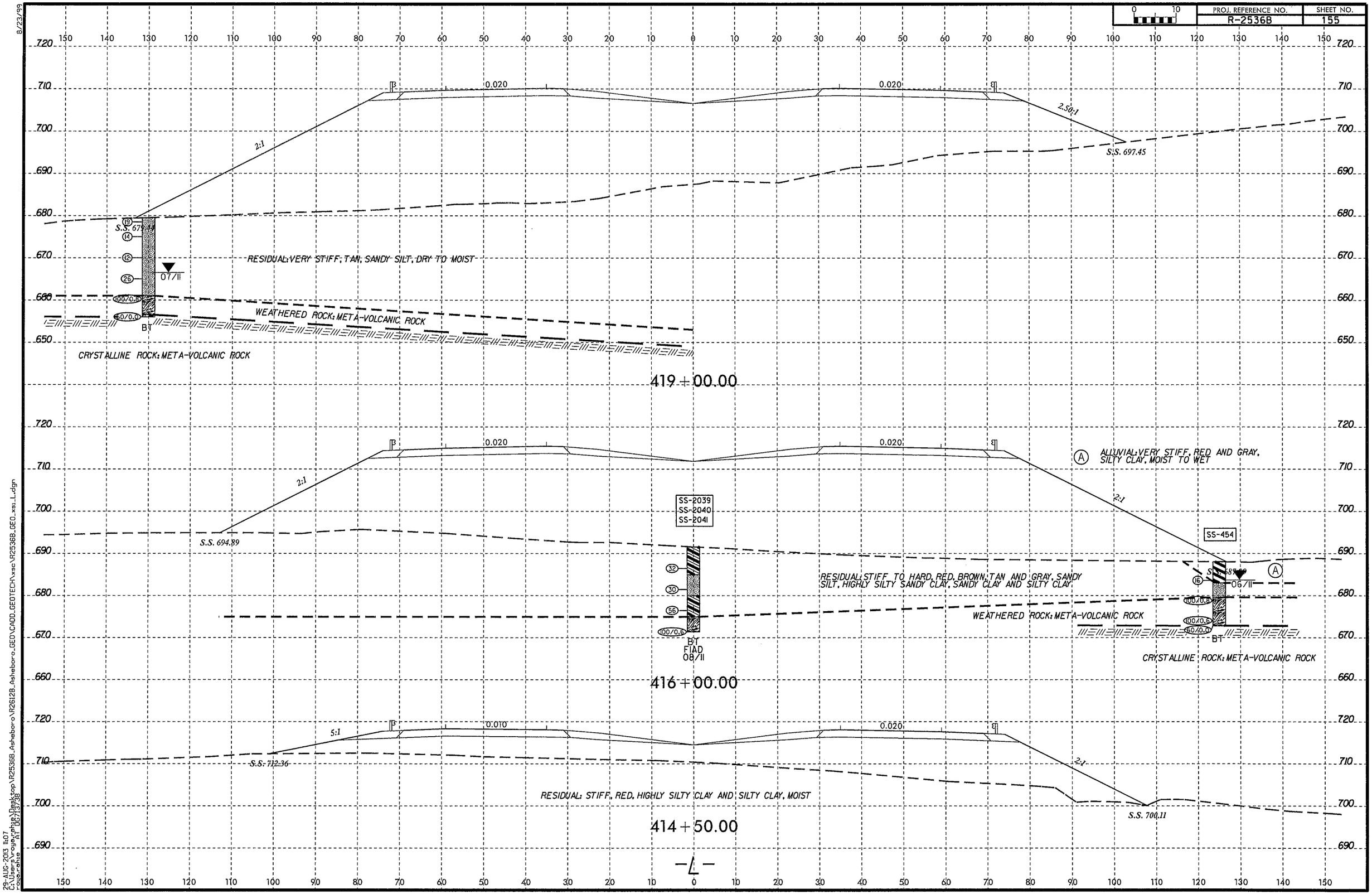
AT 06/13/38



8/23/99

29-AUG-2013 11:07
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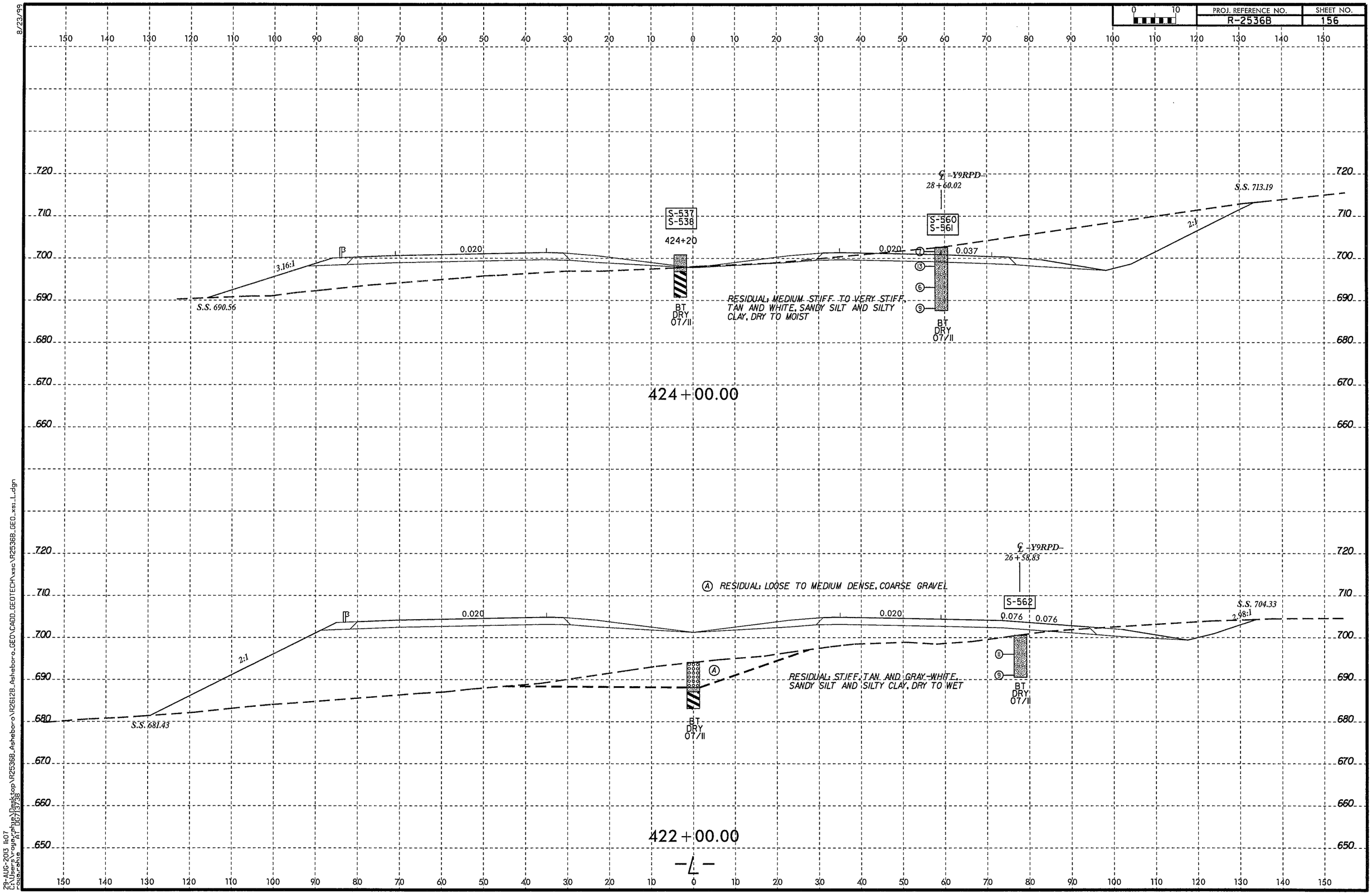
AT 06/13/38



8/23/99

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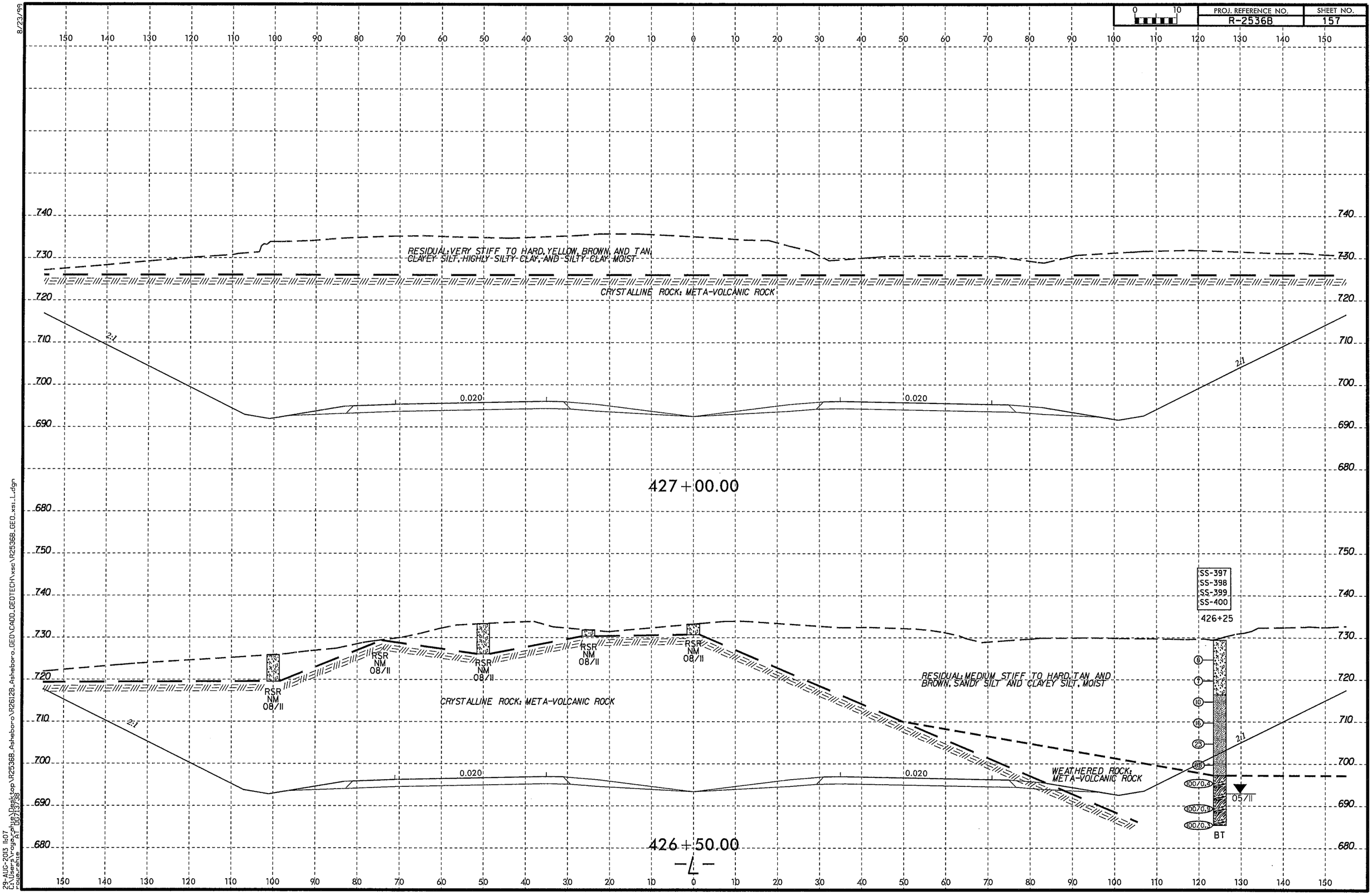

8/23/99

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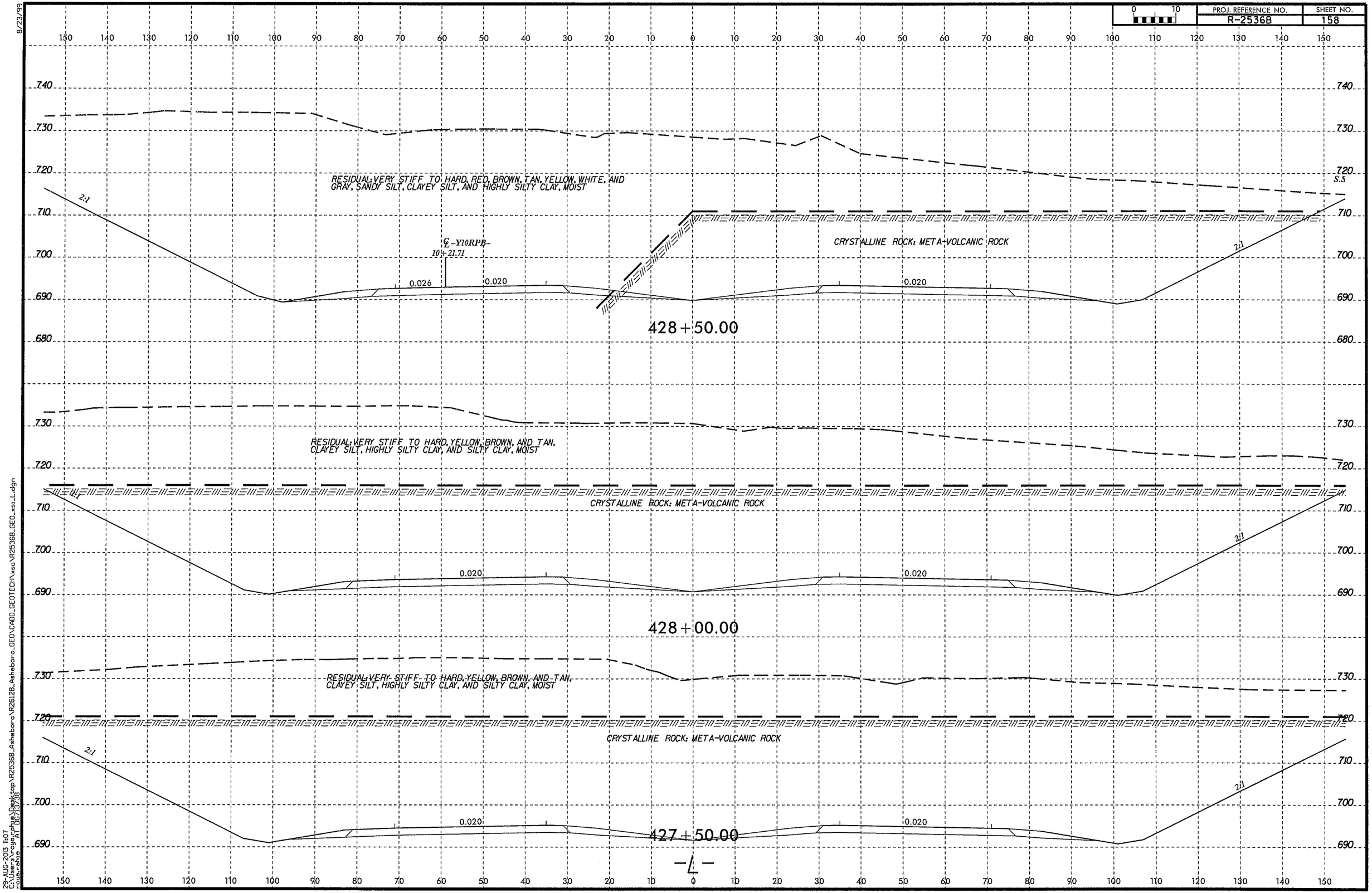
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	158



8/23/99

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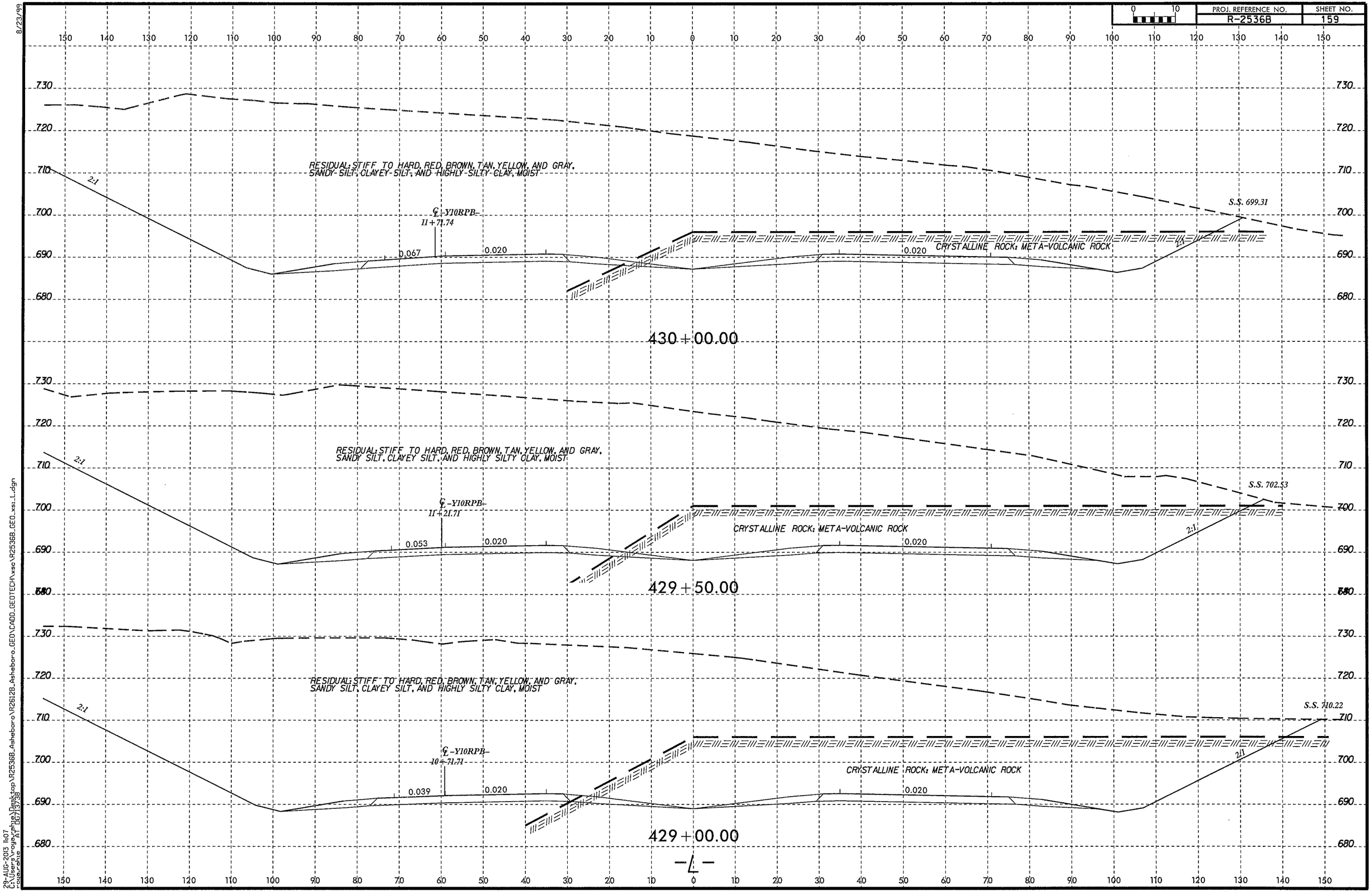
AT DB713738



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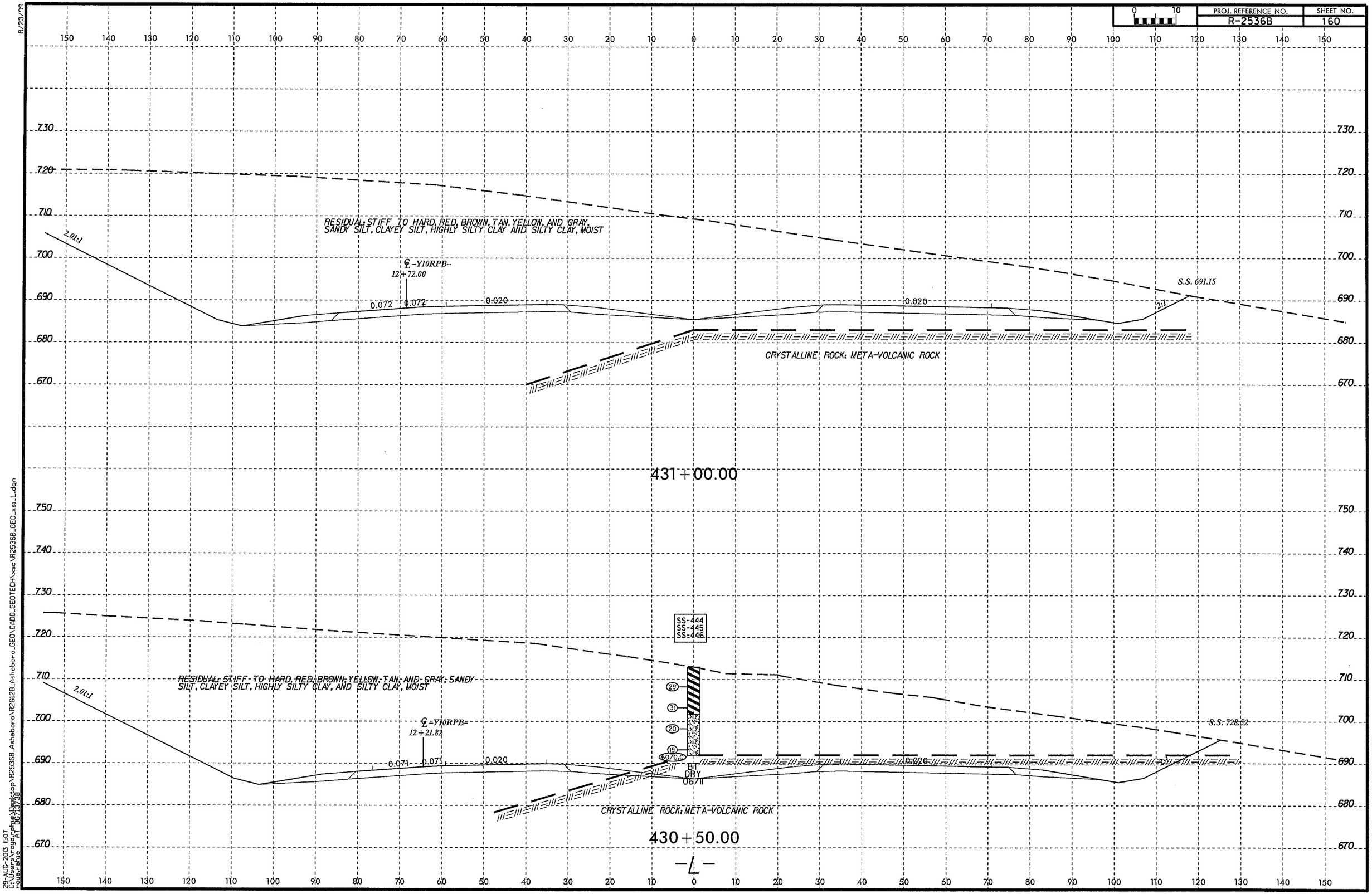
rogerphe AT DOT13738



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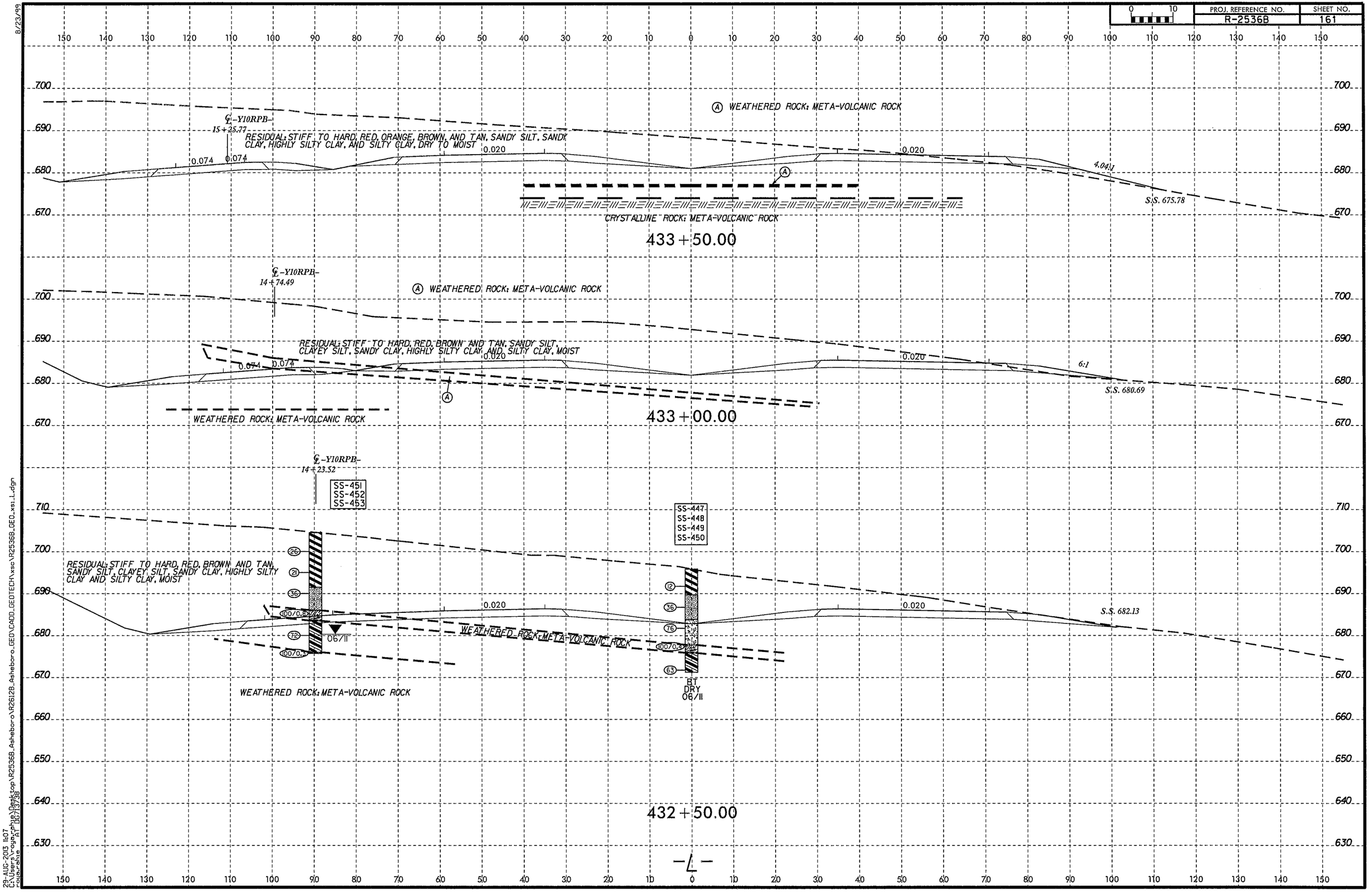

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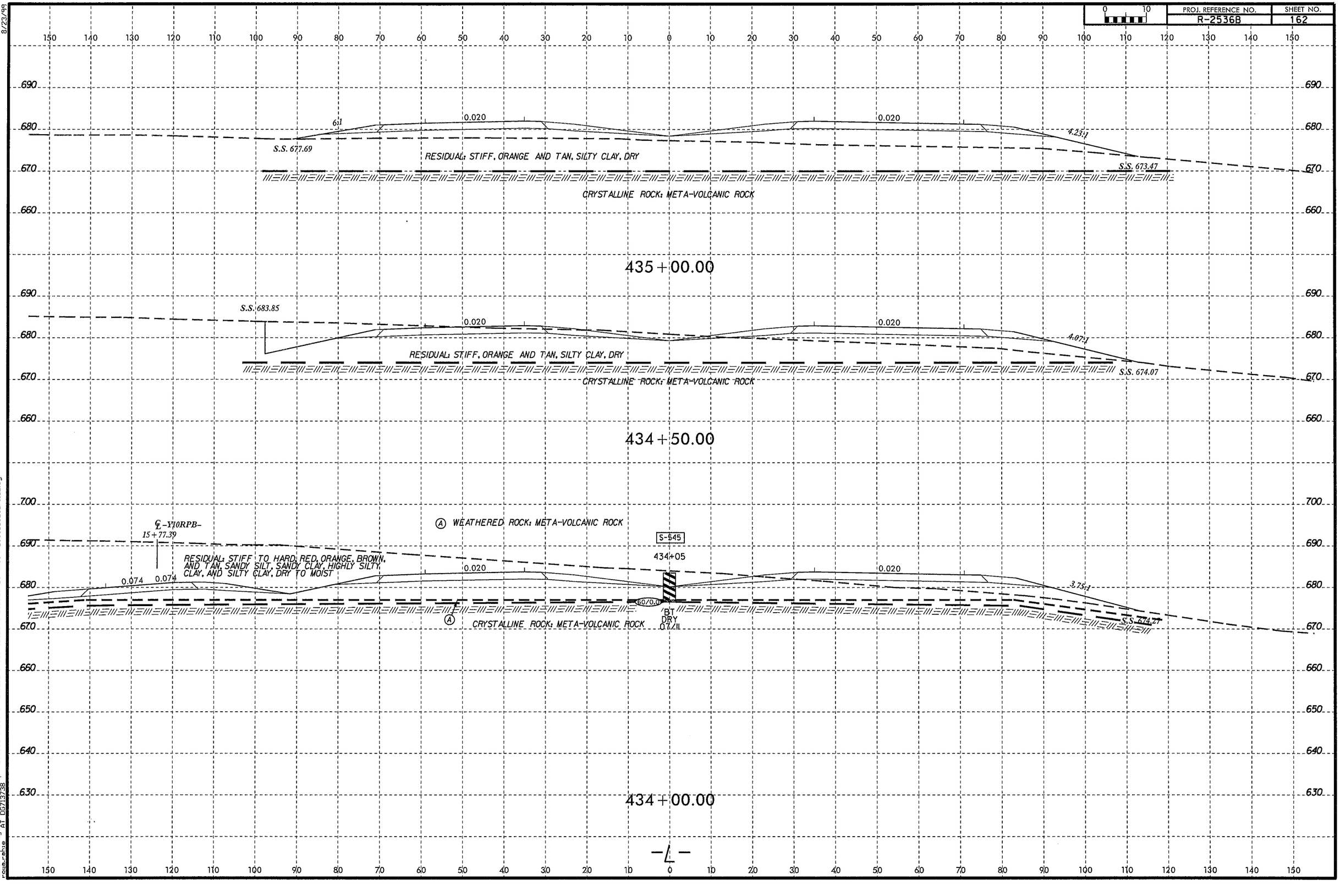

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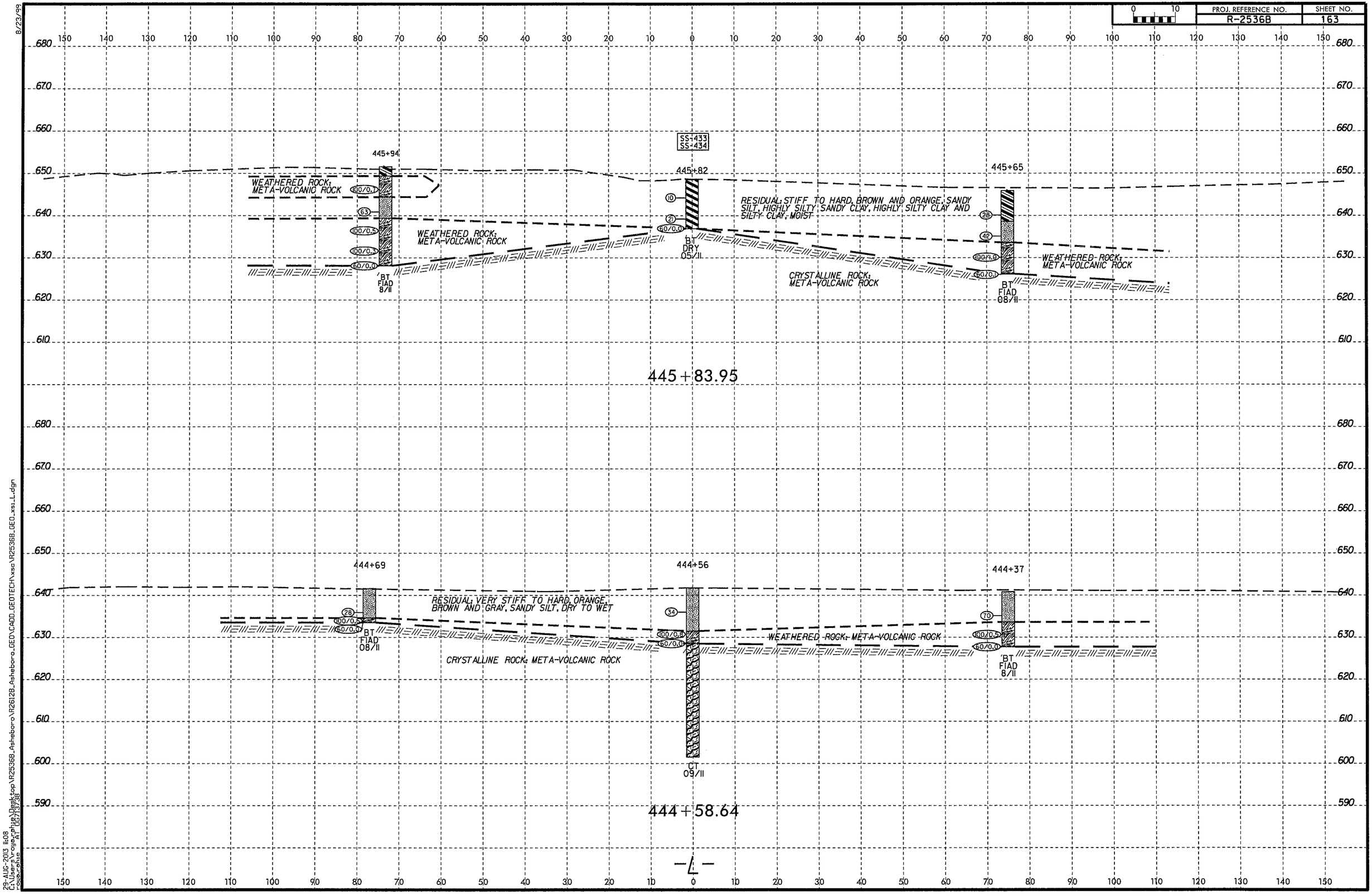

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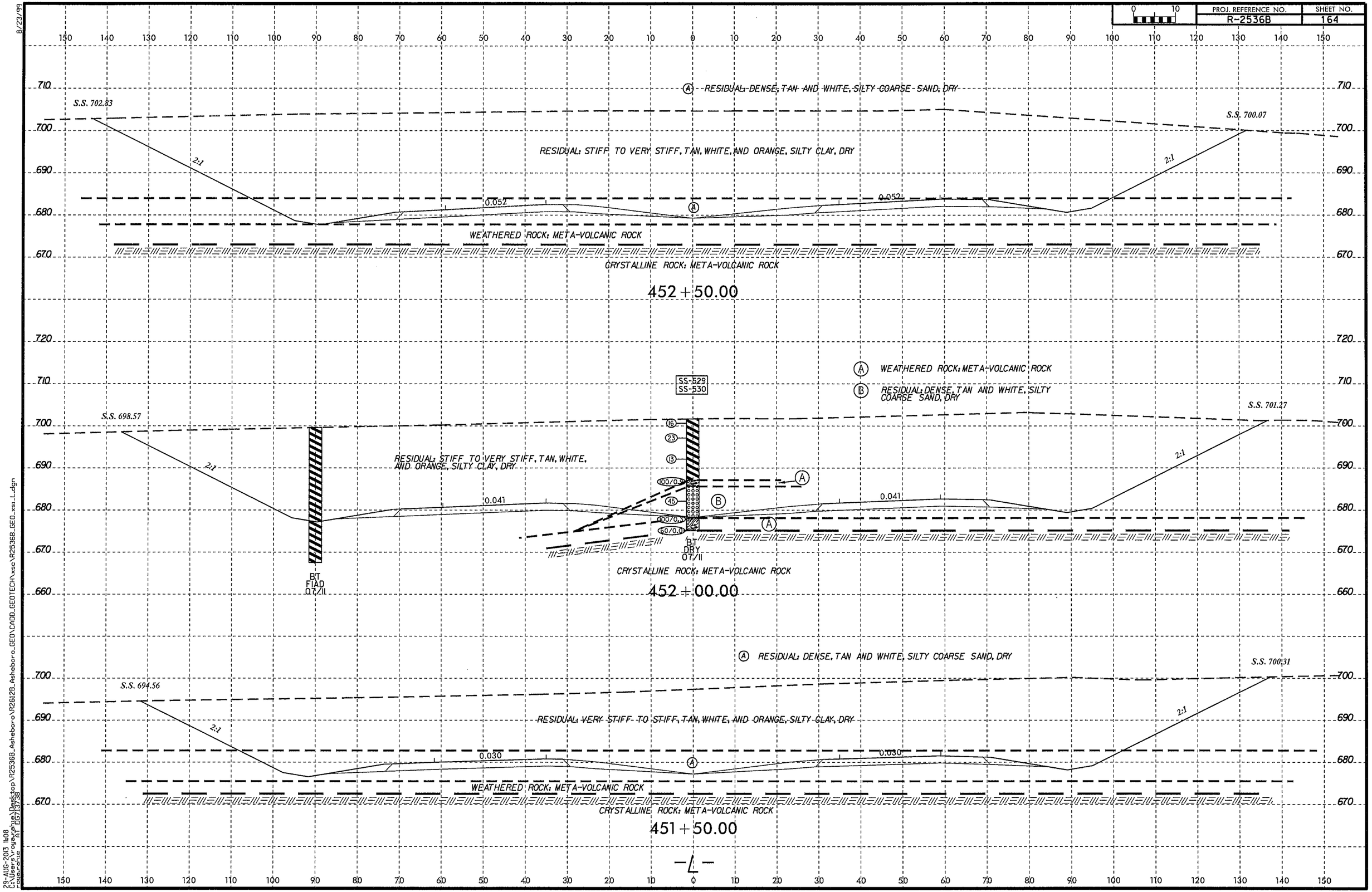
roger.phillips AT DOT/13/38



8/23/99

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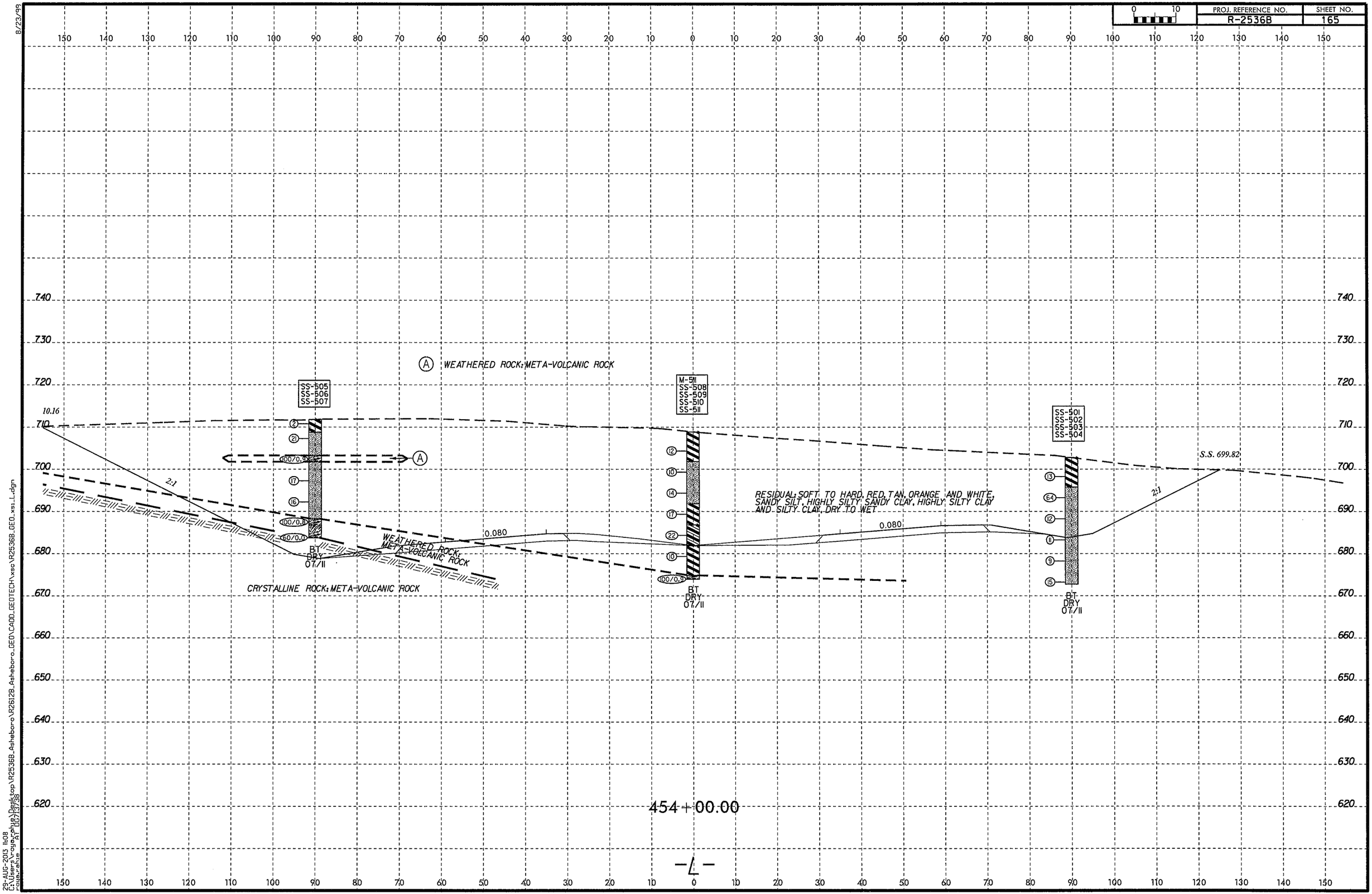
AT D57/37/38



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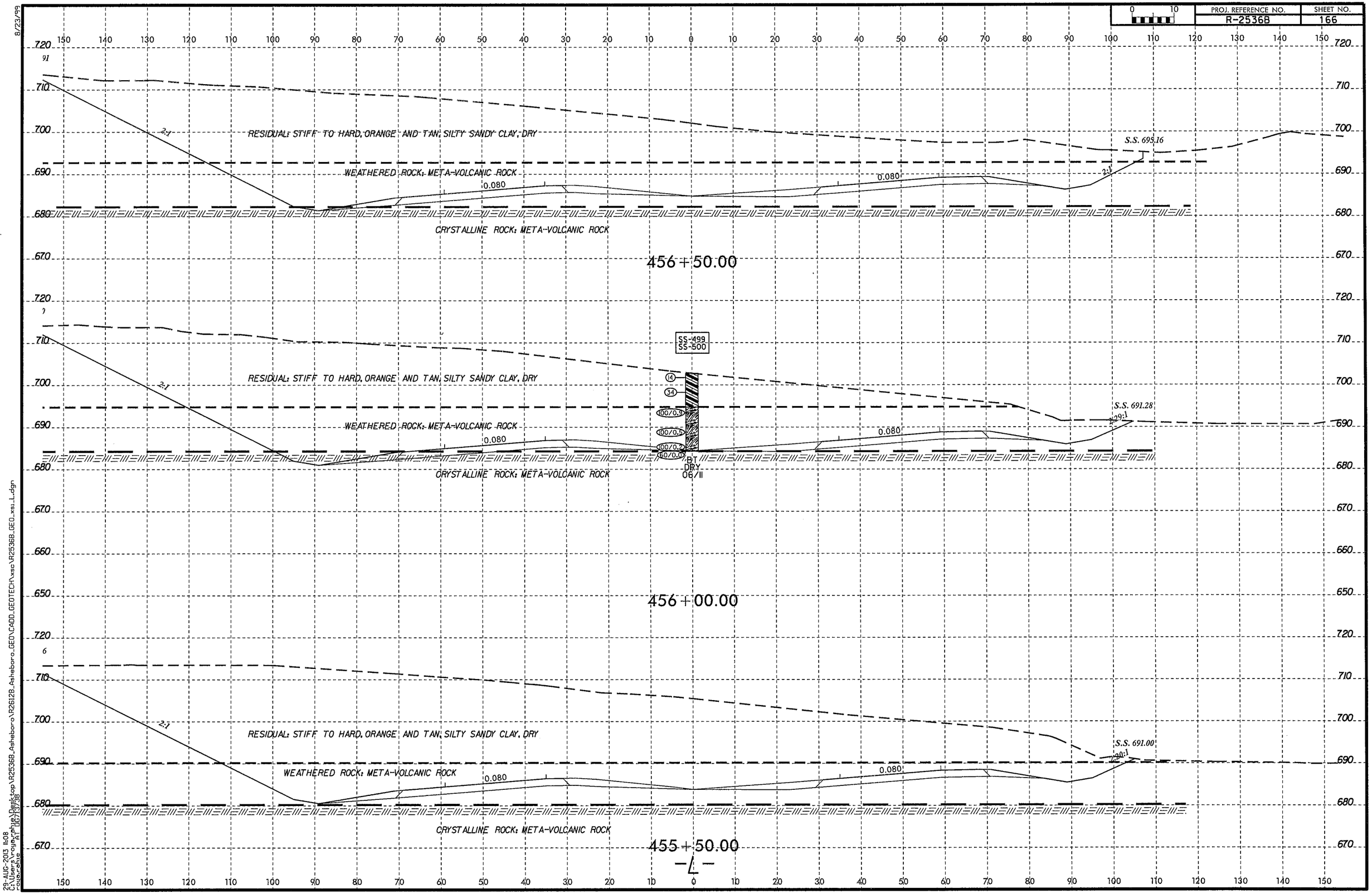

8/23/99
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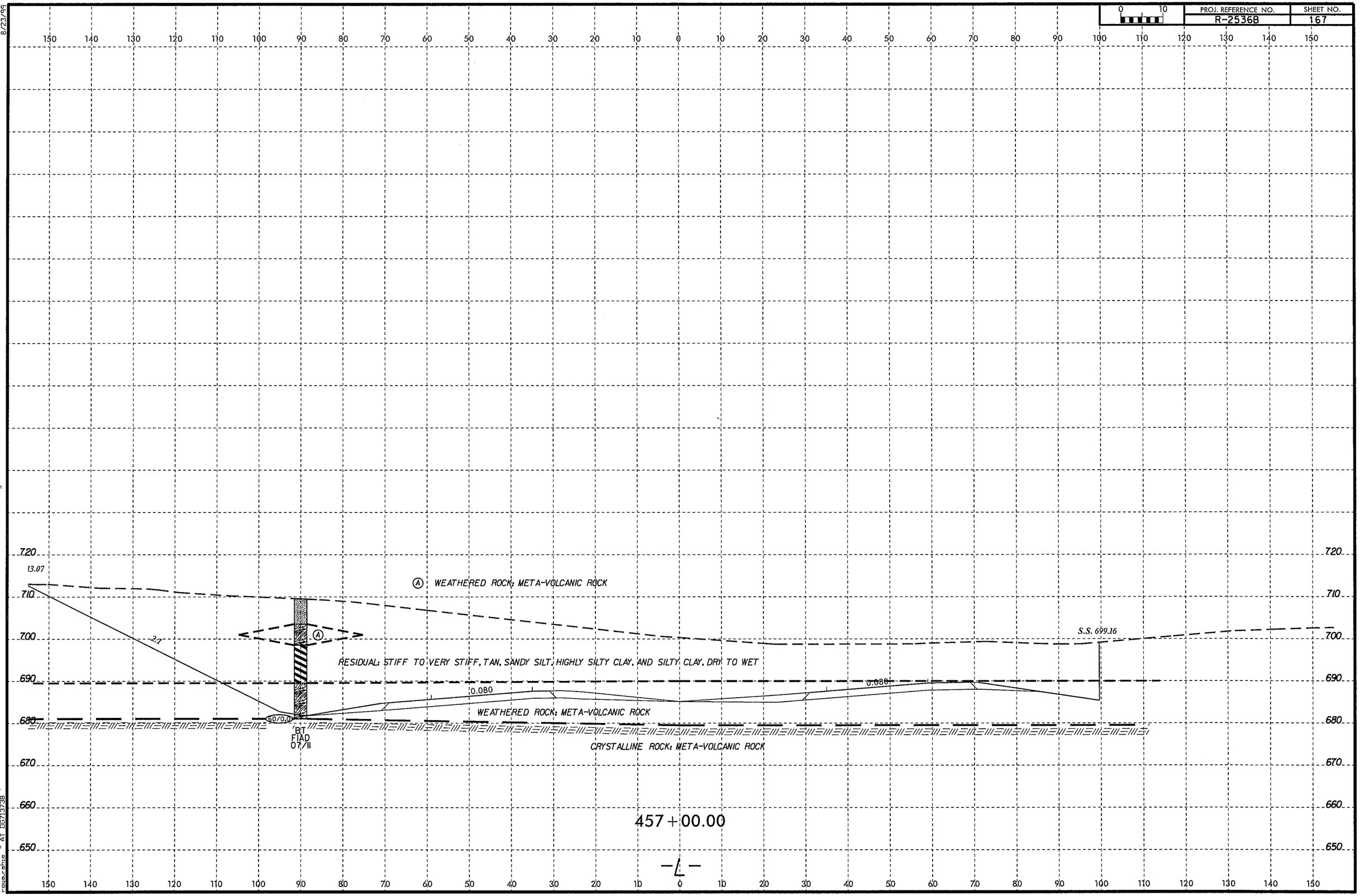
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	167



8/23/99

29-AUG-2013 11:08
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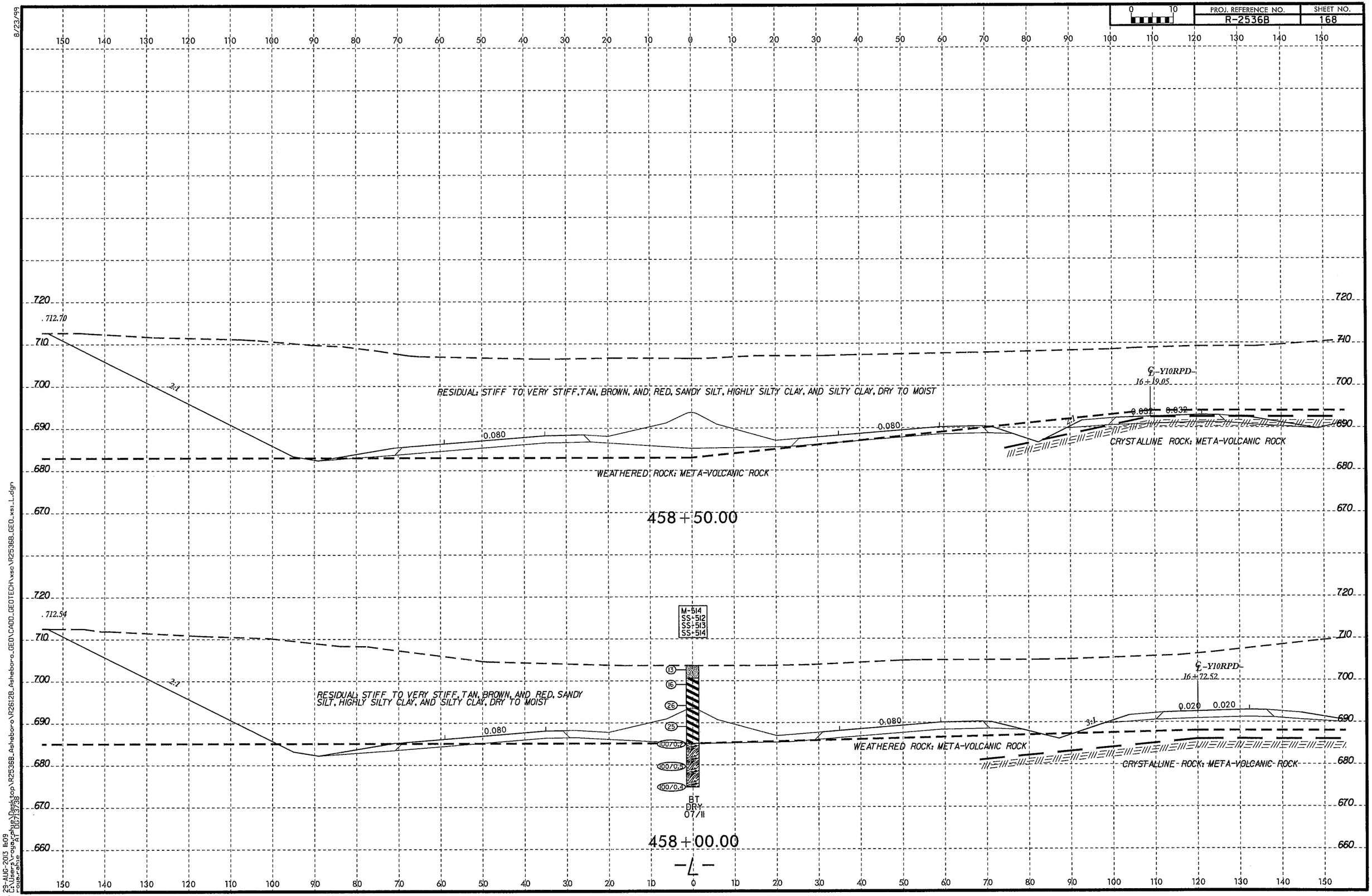

8/23/99
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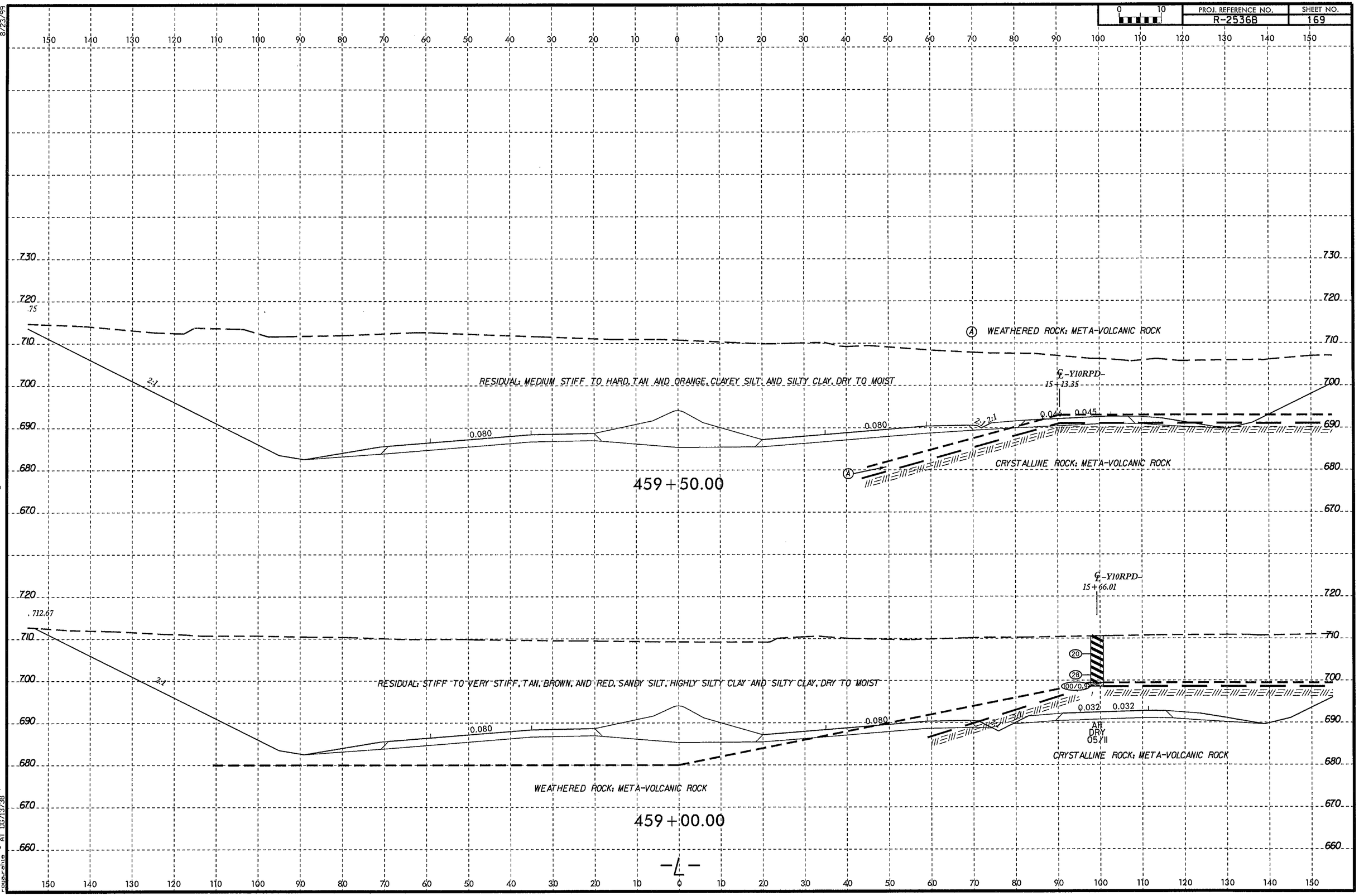
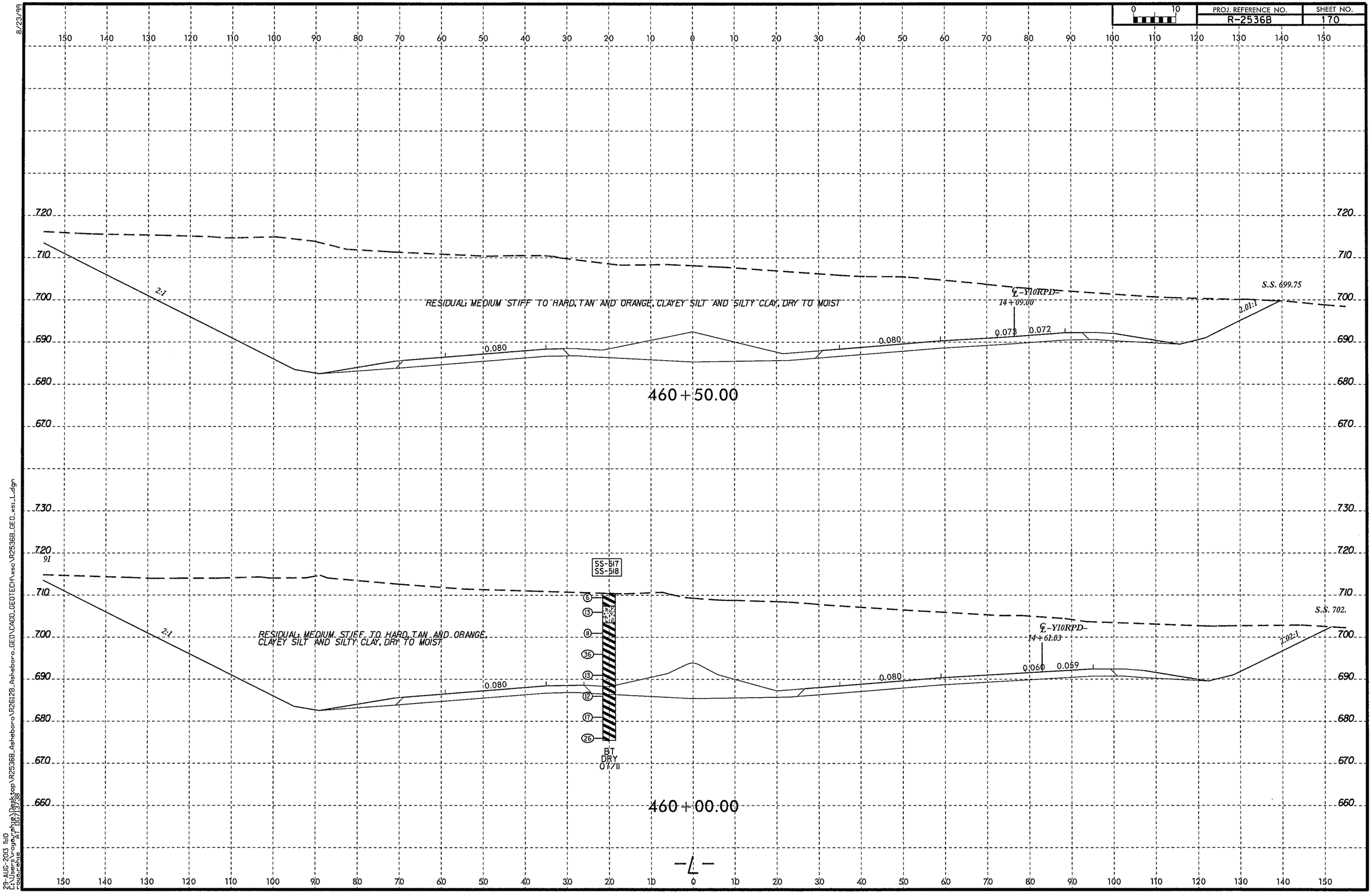
roya-phie AT DOT/3738


PROJ. REFERENCE NO.
R-2536B
SHEET NO.
169
0 10
WEATHERED ROCK: META-VOLCANIC ROCK
RESIDUAL: MEDIUM STIFF TO HARD, TAN AND ORANGE, CLAYEY SILT AND SILTY CLAY, DRY TO MOIST
℄ -Y10RPD-
15+13.35
0.080
0.046
0.045
2:1
CRYSTALLINE ROCK: META-VOLCANIC ROCK
459+50.00
.75
712.67
℄ -Y10RPD-
15+66.01
20
28
100/0.3
0.032
AR
DRY
05/11
459+00.00
-L-
8/23/99
29-AUG-2013 11:09
C:\Users\roya.rahe\Desktop\R2536B_Asheboro\R26128_Asheboro_GEO\CADD_GEOTECH\xsc\R2536B_GEO_xsi_L.dgn
roya.rahe AT DS/13/36



8/23/99

29-AUG-2013 11:10
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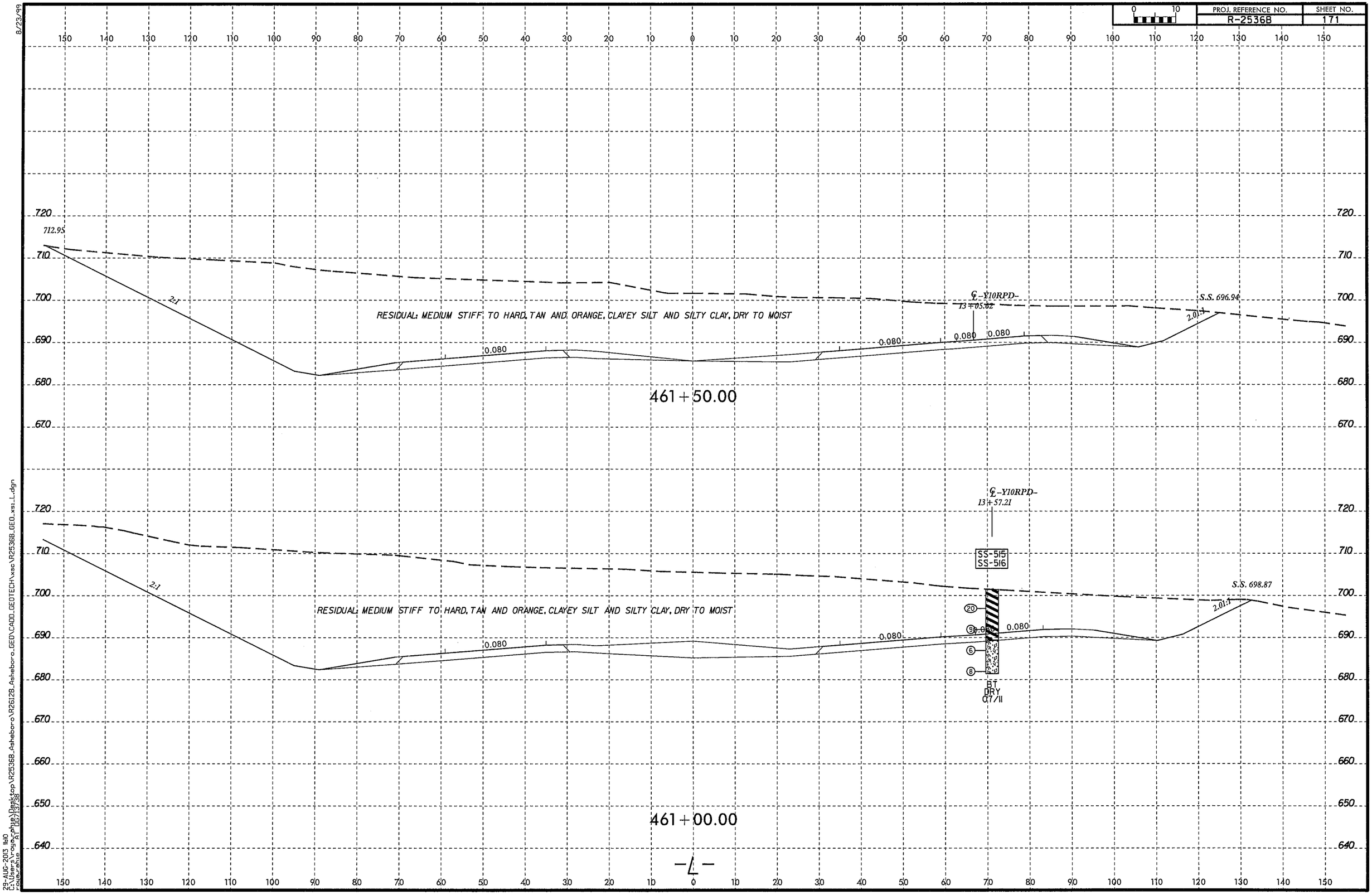
rogerphie
AT DG7/13/38



8/23/99
23-AUG-2013 11:10
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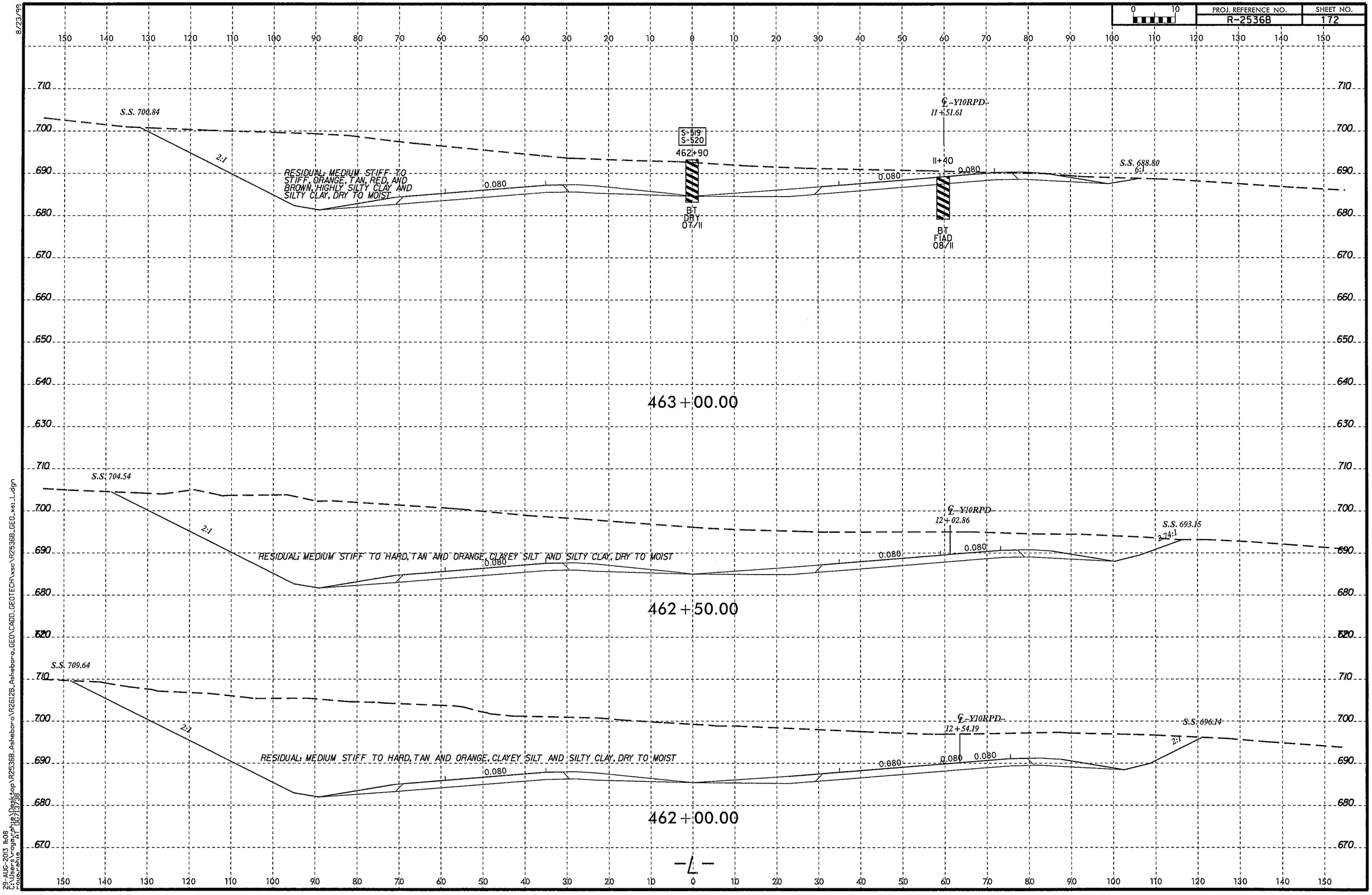
rouxrphie
ATT 05713/36



8/23/99

29-AUG-2013 11:08
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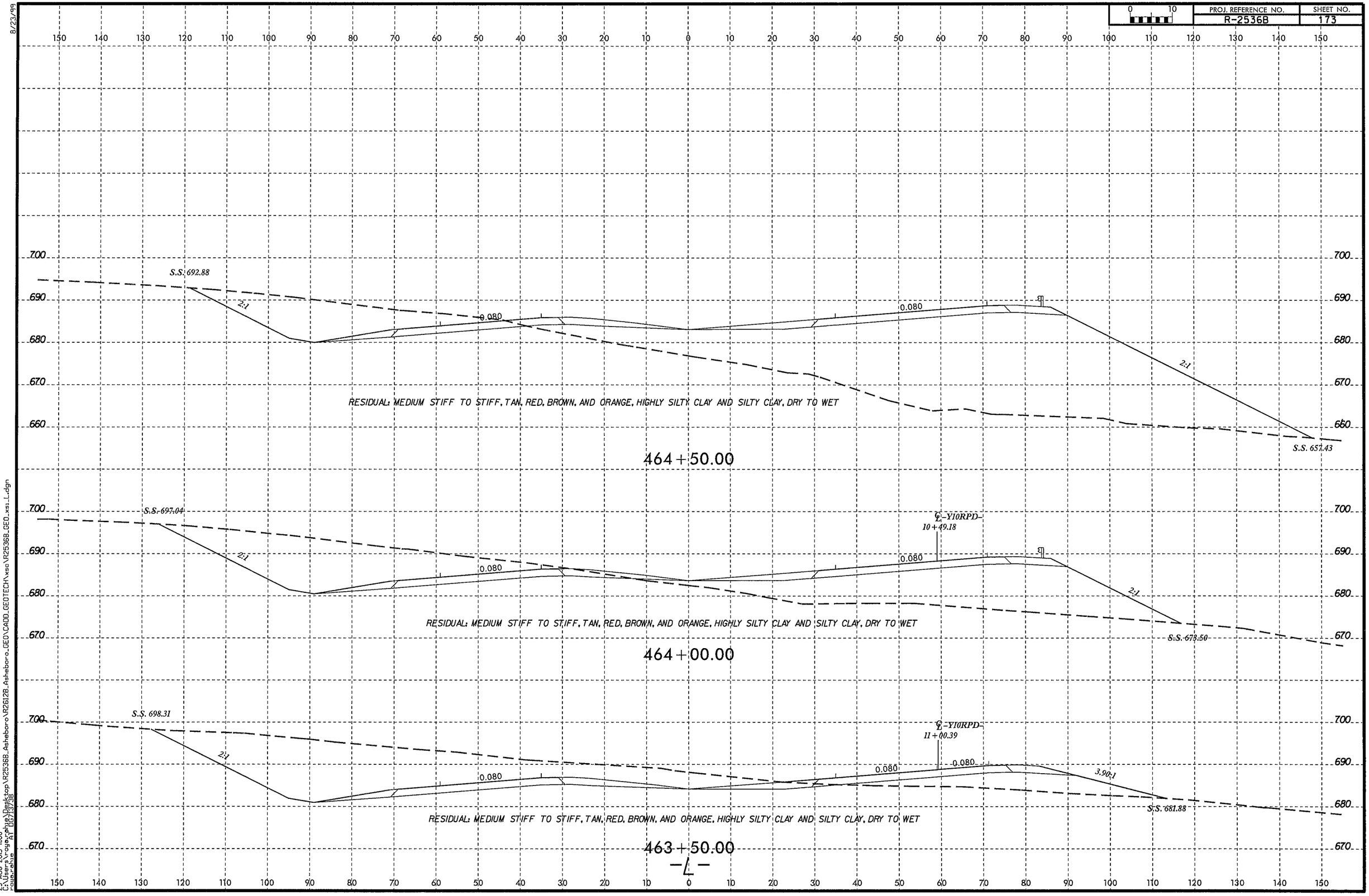
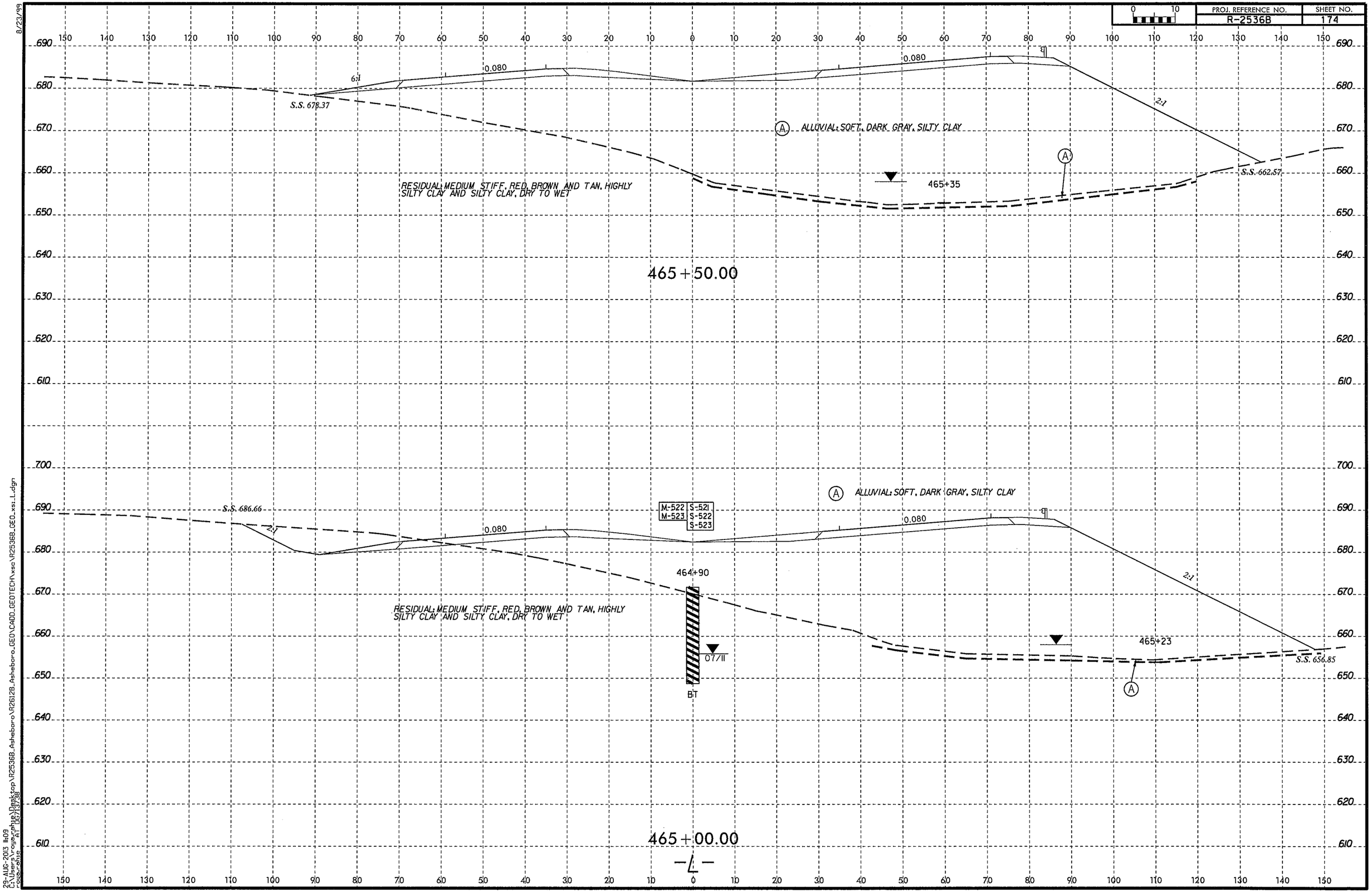
rogerahie AT 06/13/98



8/23/99

29-AUG-2013 11:08
C:\Users\rogerchris\Desktop\R2536B_Asheboro\R2612B_Asheboro_GEO\CADD_GEOTECH\xsc\R2536B_GEO_xs1_L.dgn
roger.chris
A1 D6/13/38



8/23/99
29-AUG-2013 11:09
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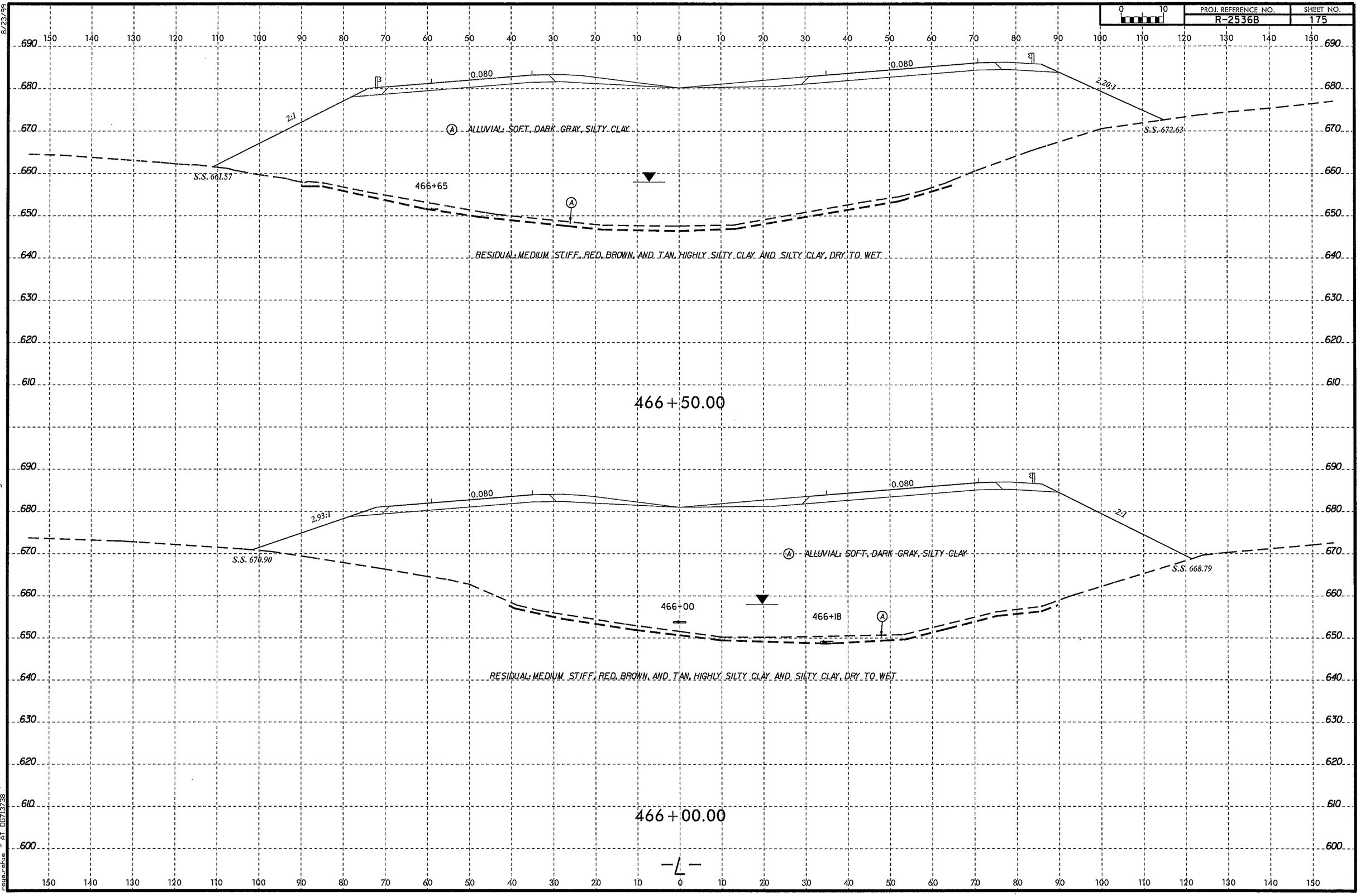
Footprint
AT 09/13/98



8/23/99
29-AUG-2013 11:09
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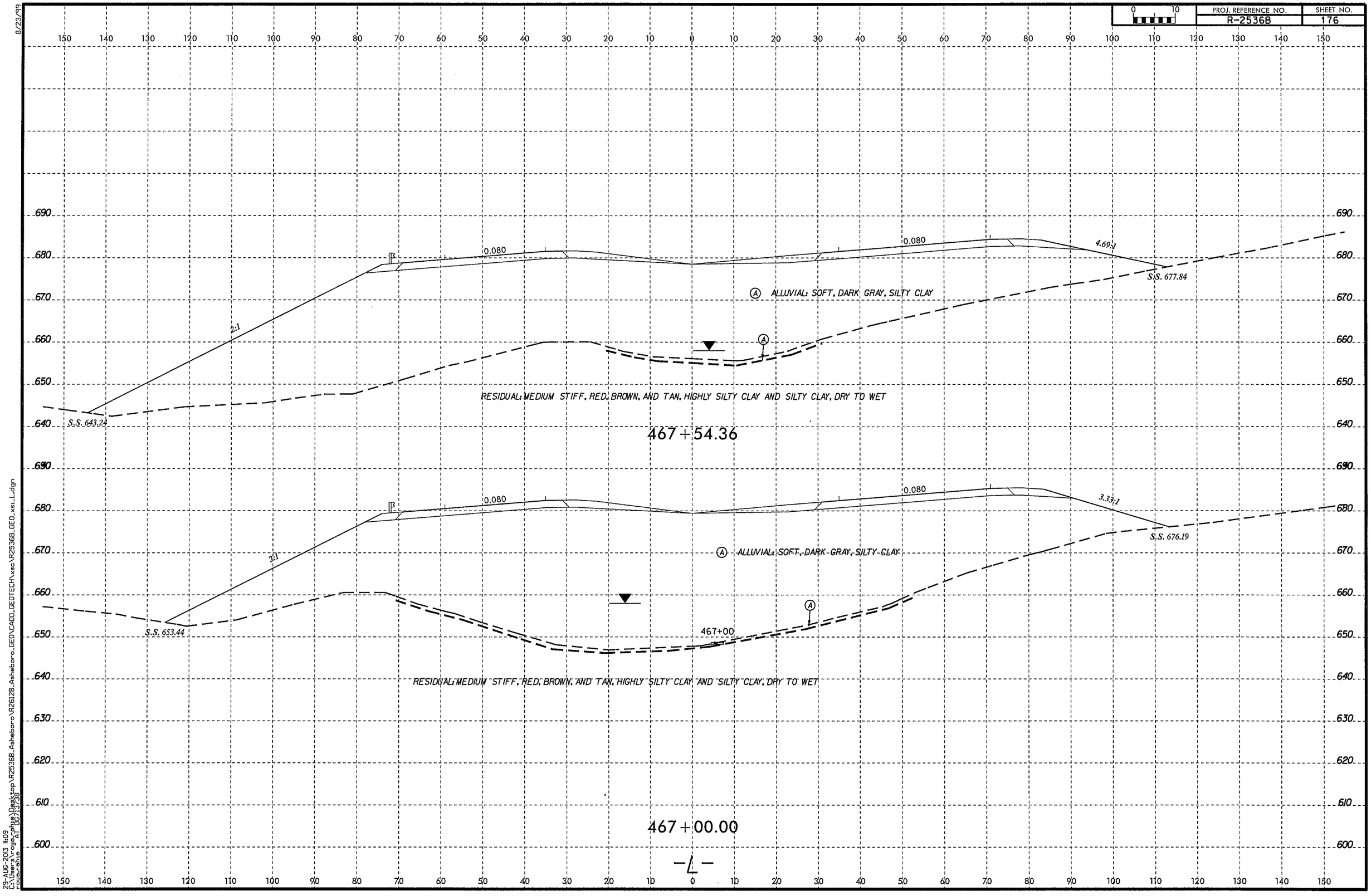
rogue.white AT 06713738



8/23/99
29-AUG-2013 11:09
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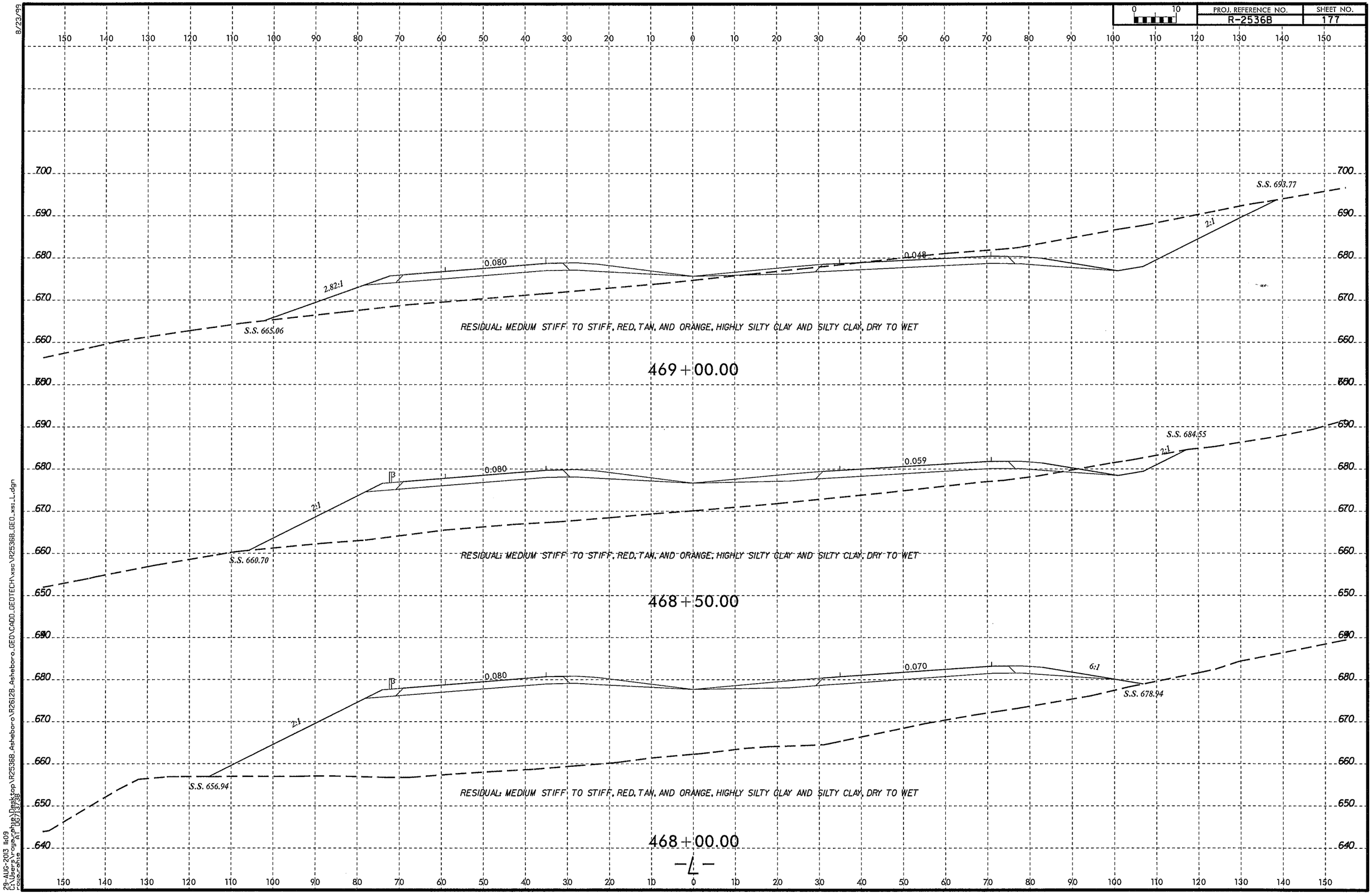
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	177



8/23/99

29-AUG-2013 11:09
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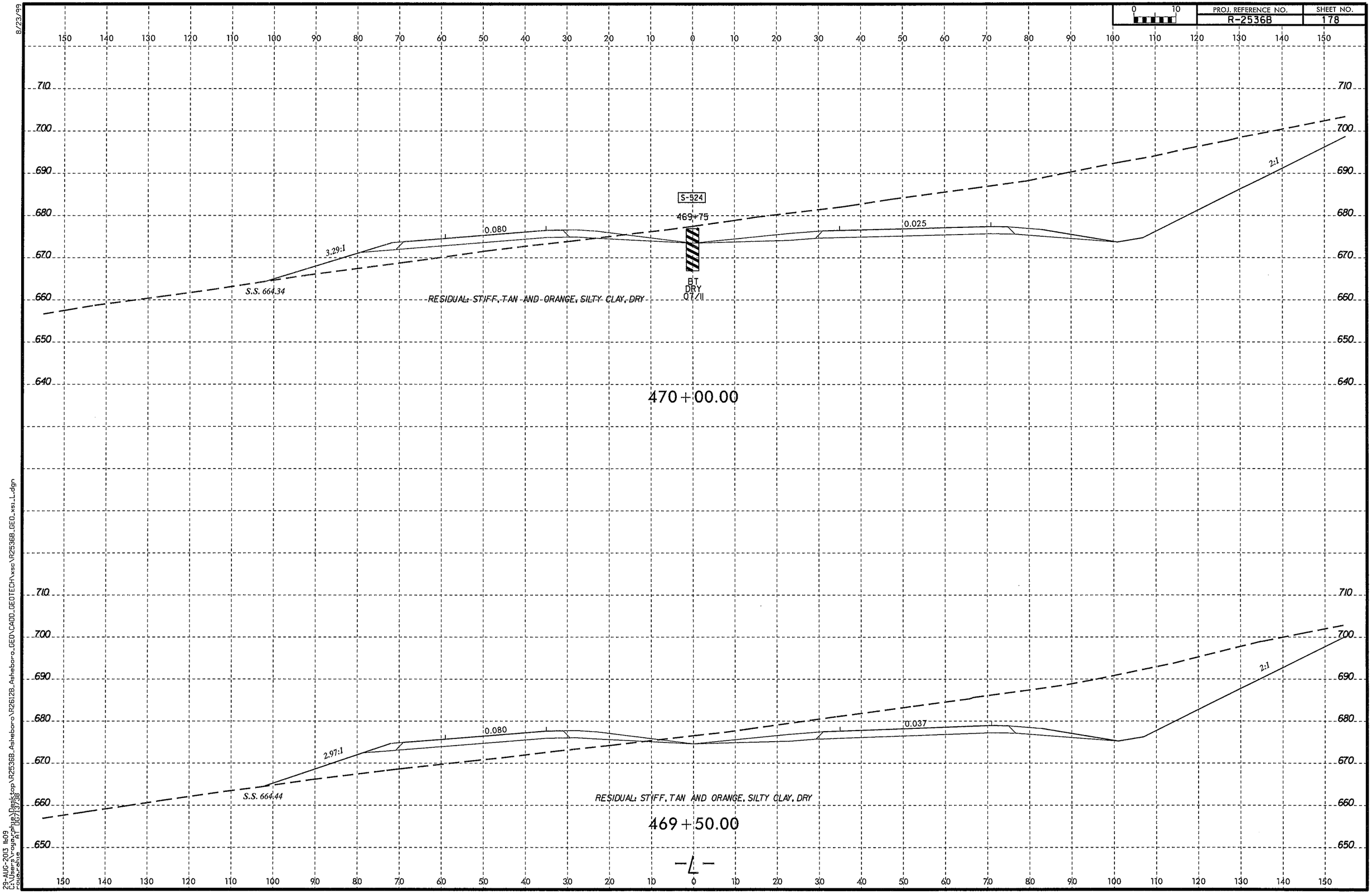
rogerphil AT DG713/38

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	178



8/23/99

29-AUG-2013 11:09
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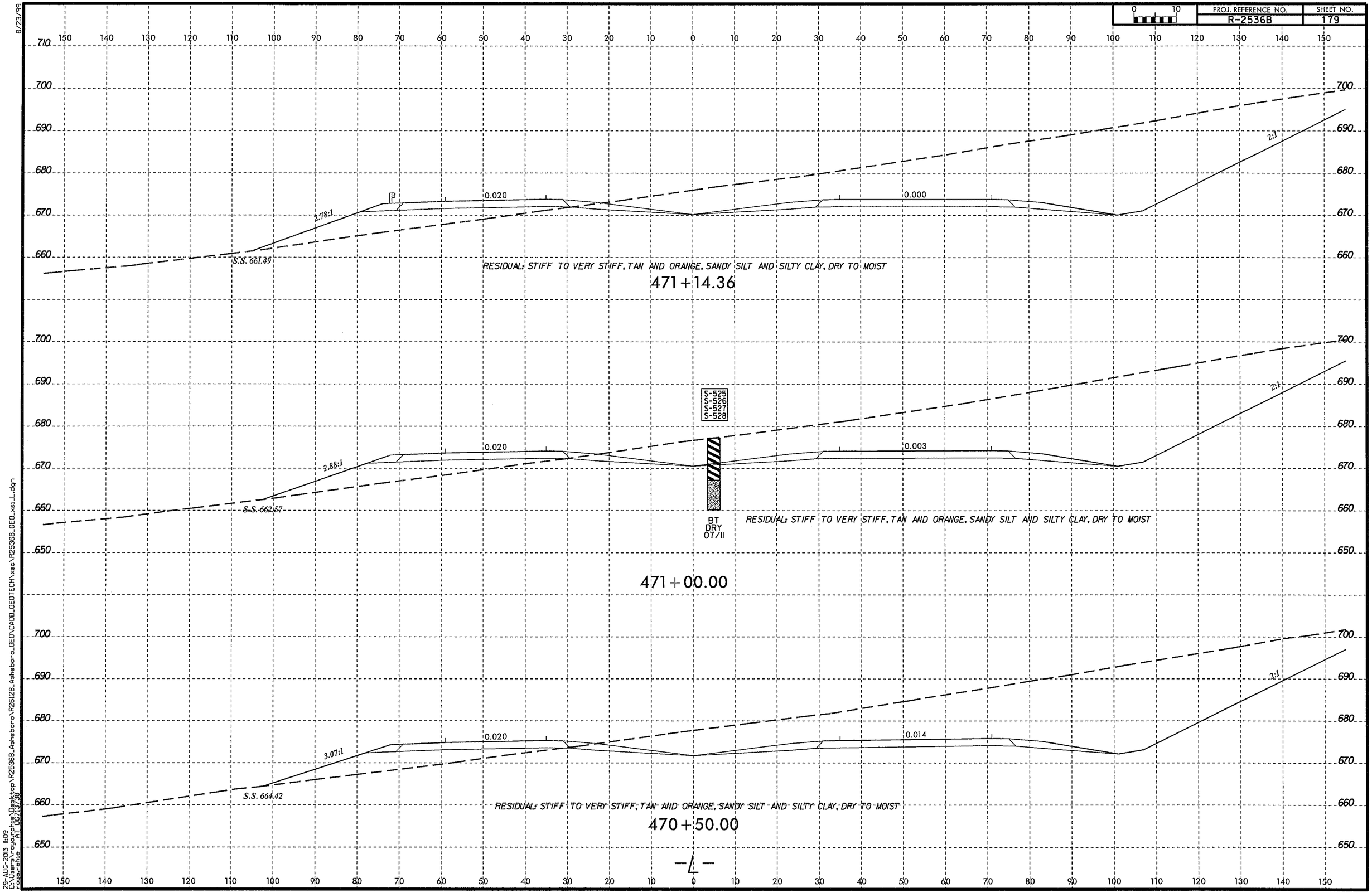
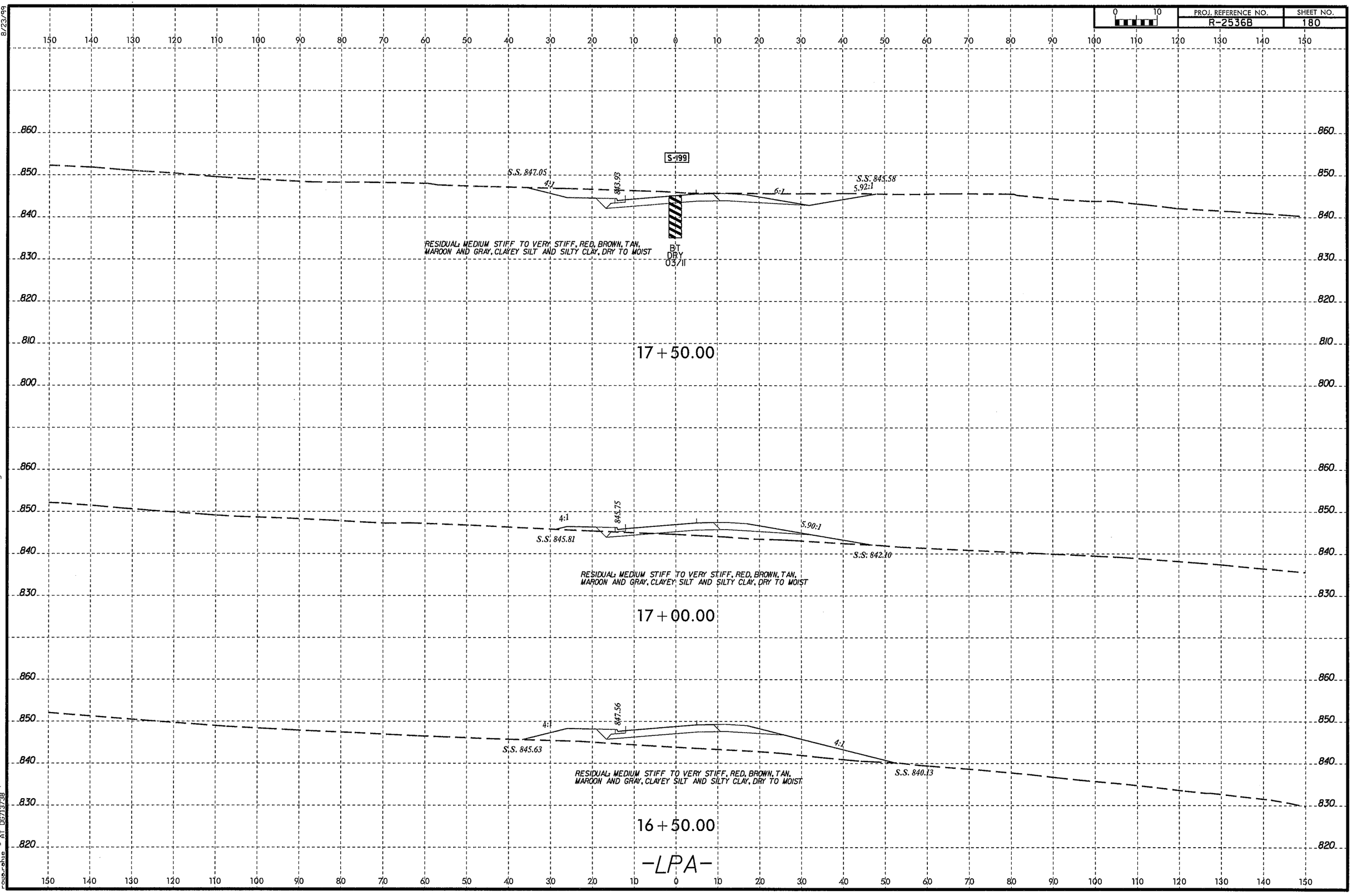
rogurphie AT DOT/STGB



8/23/99

29-AUG-2013 11:09
C:\Users\rogaxrhi\Desktop\R25368_Asheboro\R26128_Asheboro_GEO\CADD_GEOTECH\xsc\R25368_GEO_xs1_L.dgn
pwworpe
AT 1:20/1:50



8/23/99
29-AUG-2013 11:10
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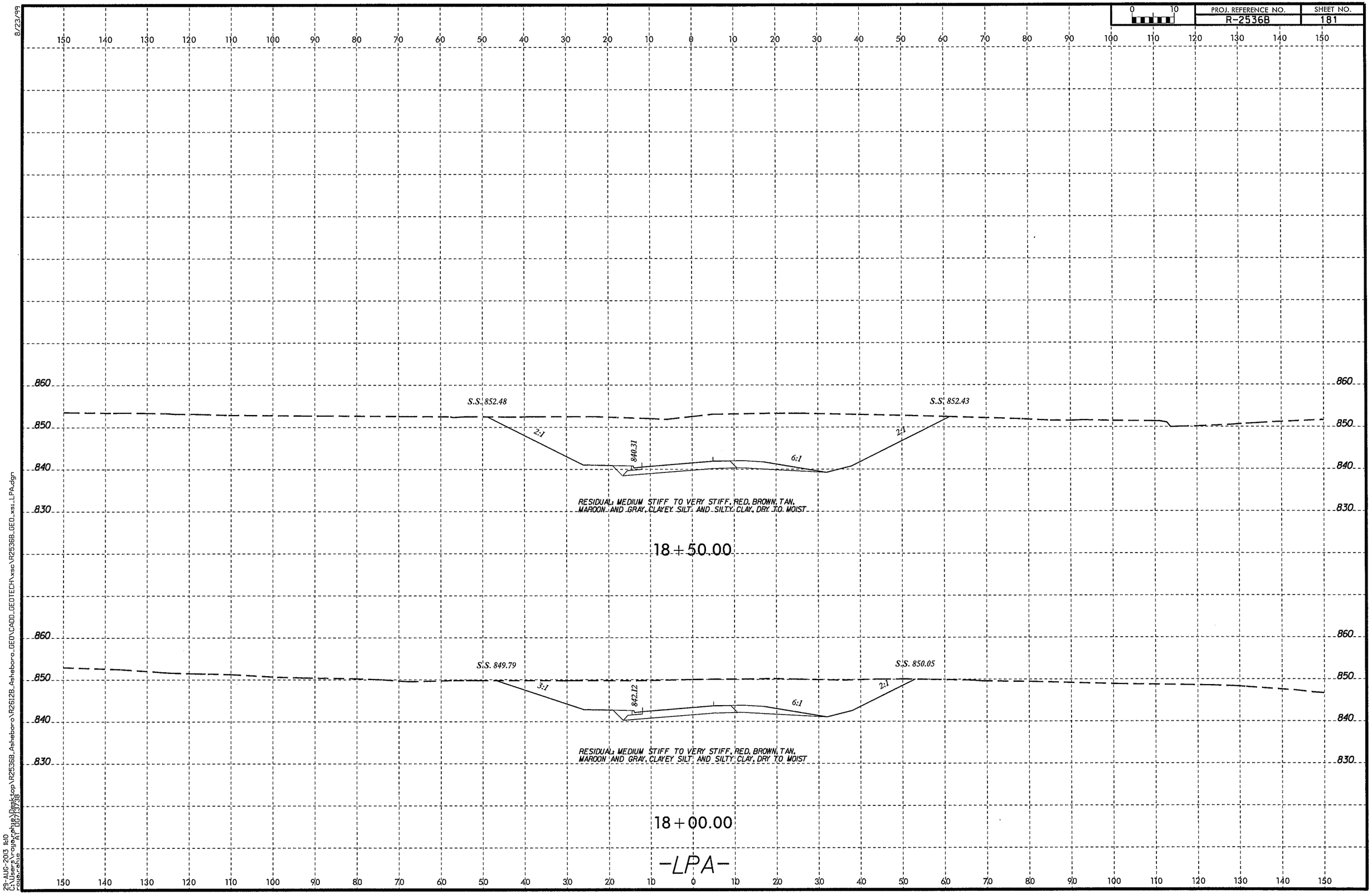
roia.rahia
A1 06/13/28

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	181



8/23/99

23-AUG-2013 11:10
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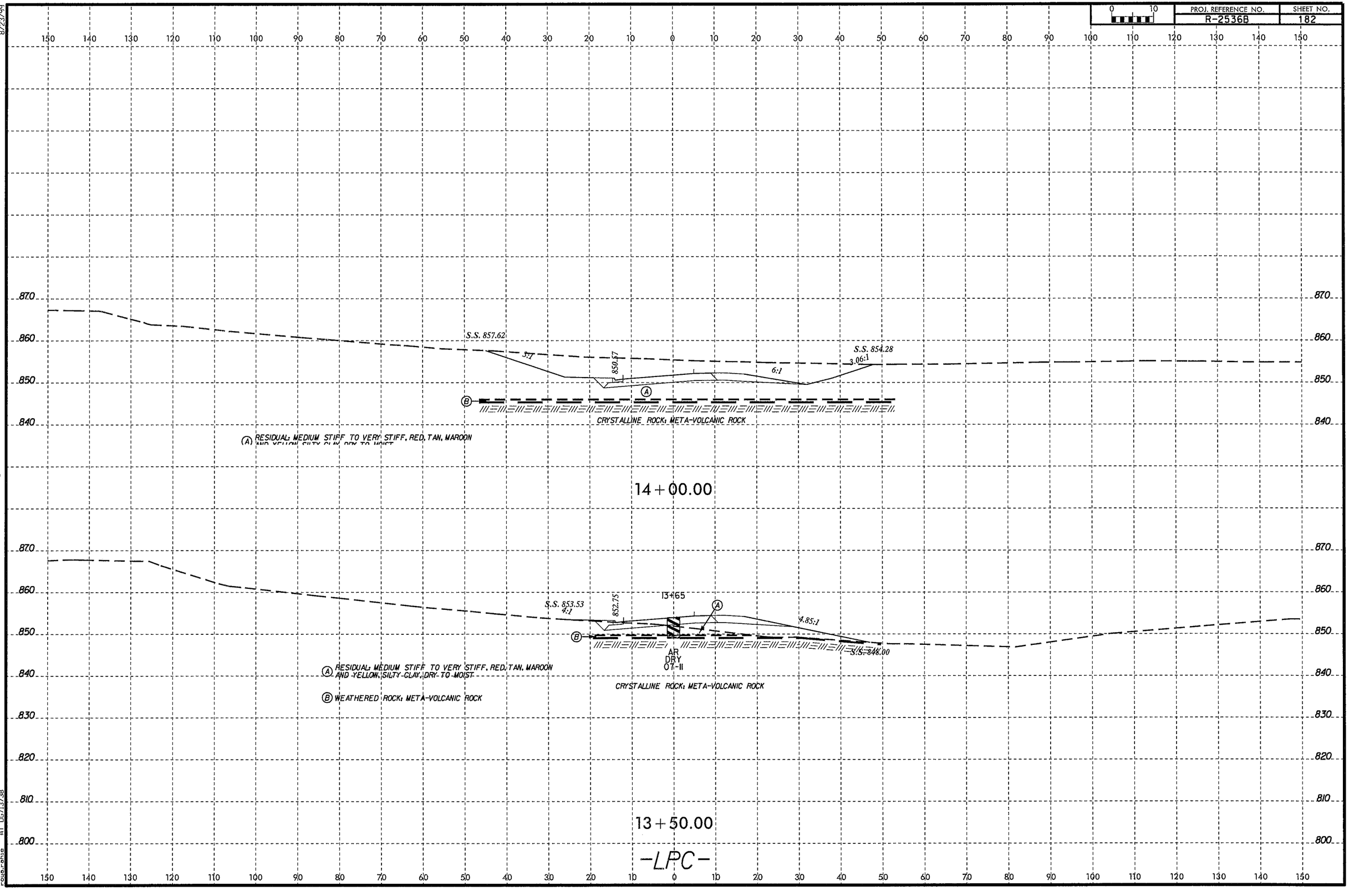
rouzerphil
AT D6713738

8/23/99

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	182



23-AUG-2013 11:10
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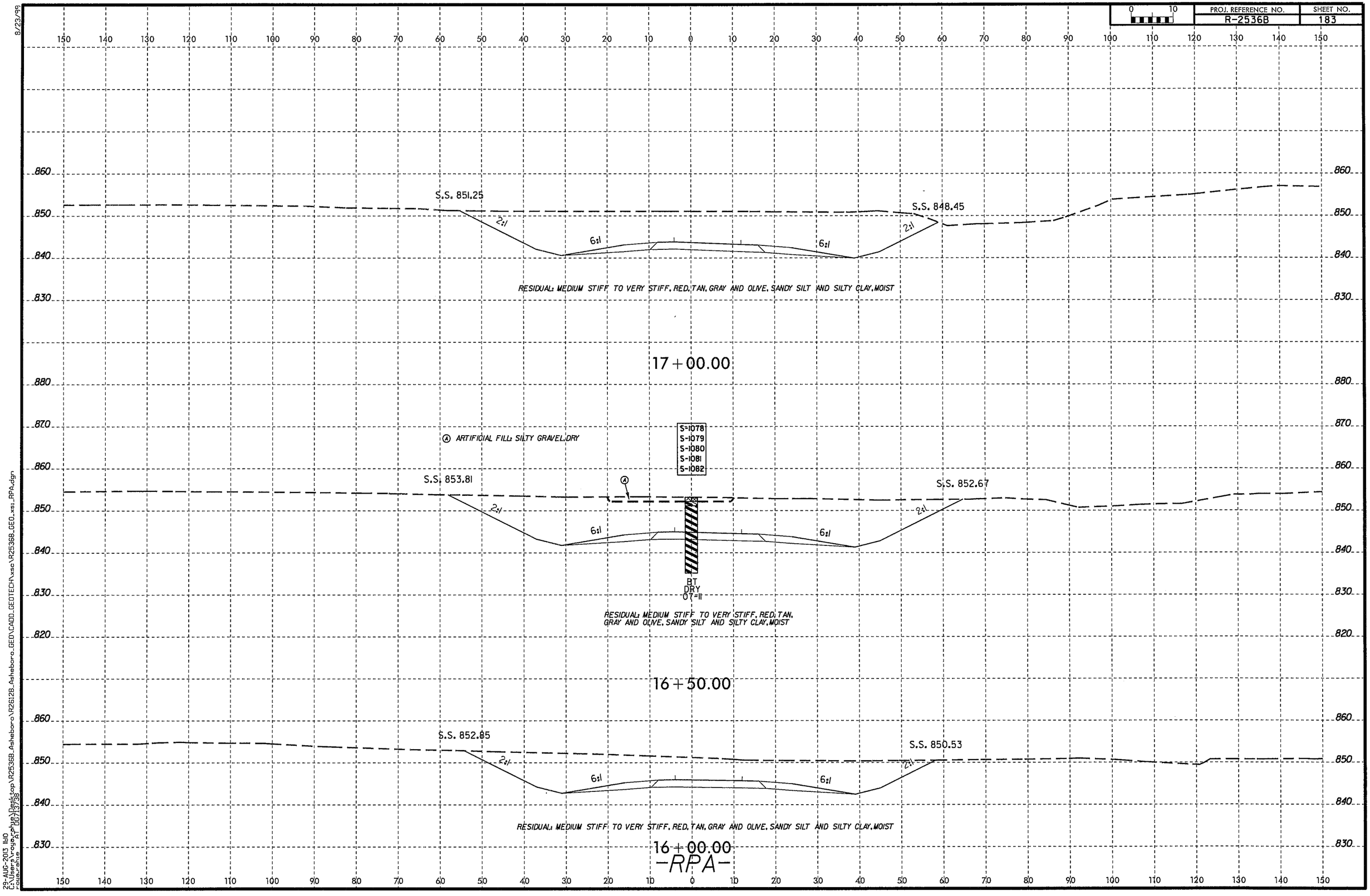
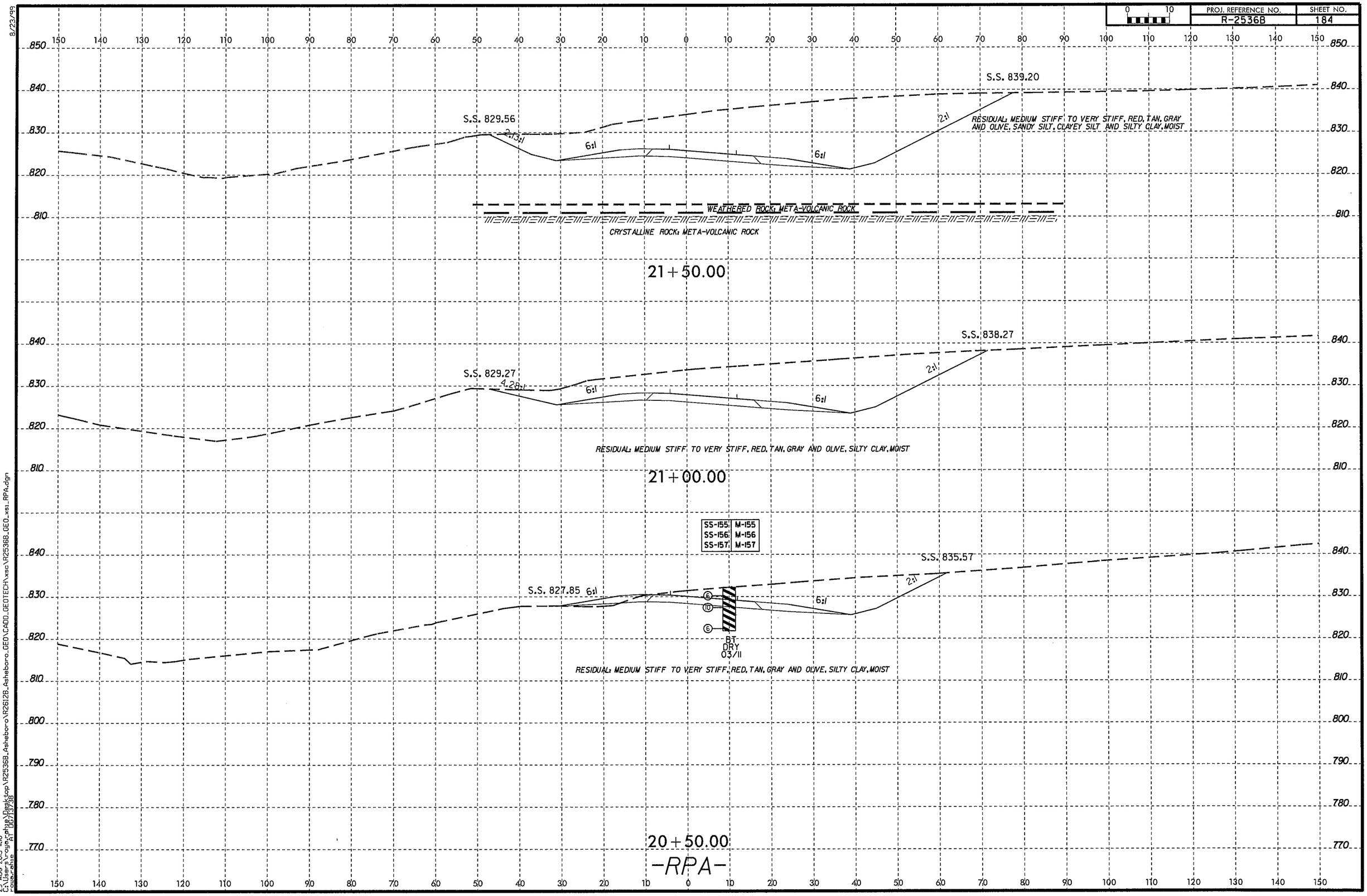
rouzerphie AT 0157137.38


PROJ. REFERENCE NO.
R-2536B
SHEET NO.
183
0 10
S.S. 851.25
S.S. 848.45
2:1
6:1
6:1
2:1
RESIDUAL: MEDIUM STIFF TO VERY STIFF, RED, TAN, GRAY AND OLIVE, SANDY SILT AND SILTY CLAY, MOIST
17+00.00
ARTIFICIAL FILL: SILTY GRAVEL, DRY
S-1078
S-1079
S-1080
S-1081
S-1082
S.S. 853.81
S.S. 852.67
BT
DRY
07-11
RESIDUAL: MEDIUM STIFF TO VERY STIFF, RED, TAN, GRAY AND OLIVE, SANDY SILT AND SILTY CLAY, MOIST
16+50.00
S.S. 852.85
S.S. 850.53
RESIDUAL: MEDIUM STIFF TO VERY STIFF, RED, TAN, GRAY AND OLIVE, SANDY SILT AND SILTY CLAY, MOIST
16+00.00
-RPA-
8/23/99
23-AUG-2013 11:10
C:\Users\roger.phillips\Desktop\R2536B_Asheboro\R2612B_Asheboro\GEO\CADD_GEOTECH\xse\R2536B_GEO_xsl_RPA.dgn
roger.phillips
PT DG713736



8/23/99

29-AUG-2013 11:10
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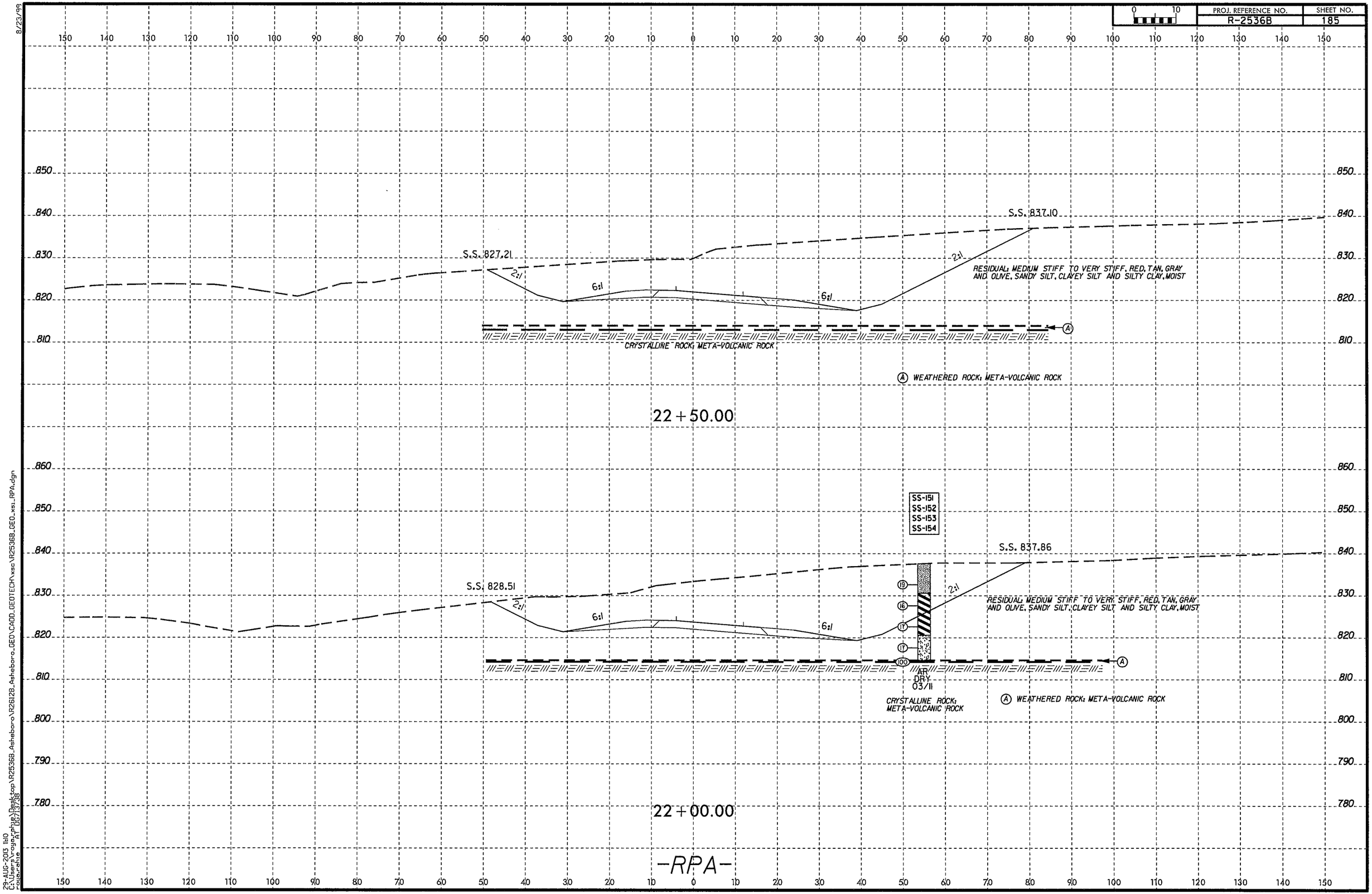
roye.cahle AT DB713738

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	185



8/23/99

29-AUG-2013 11:10
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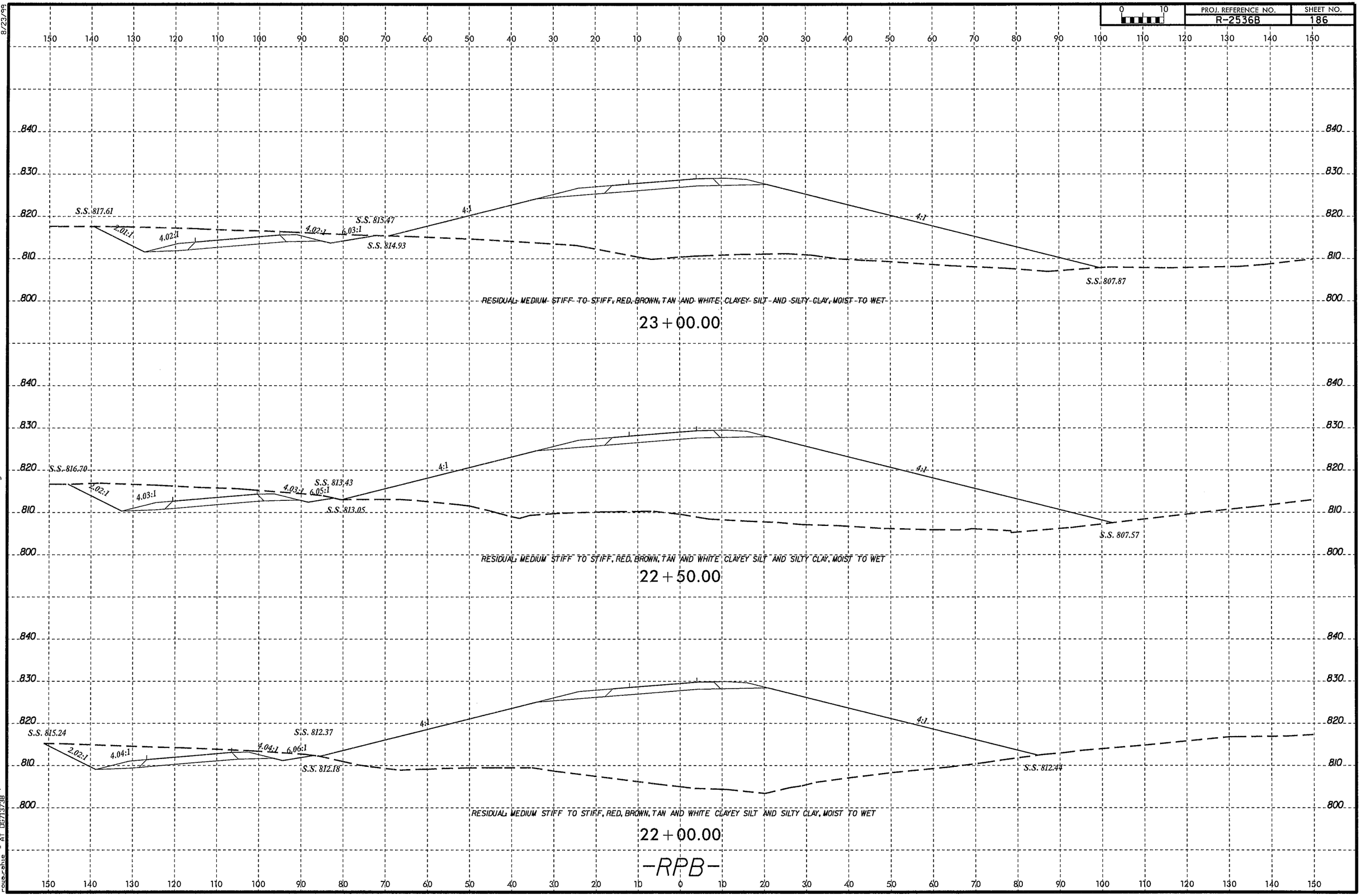
roberte AT 05/13/98

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	186



8/23/99

29-AUG-2013 11:10
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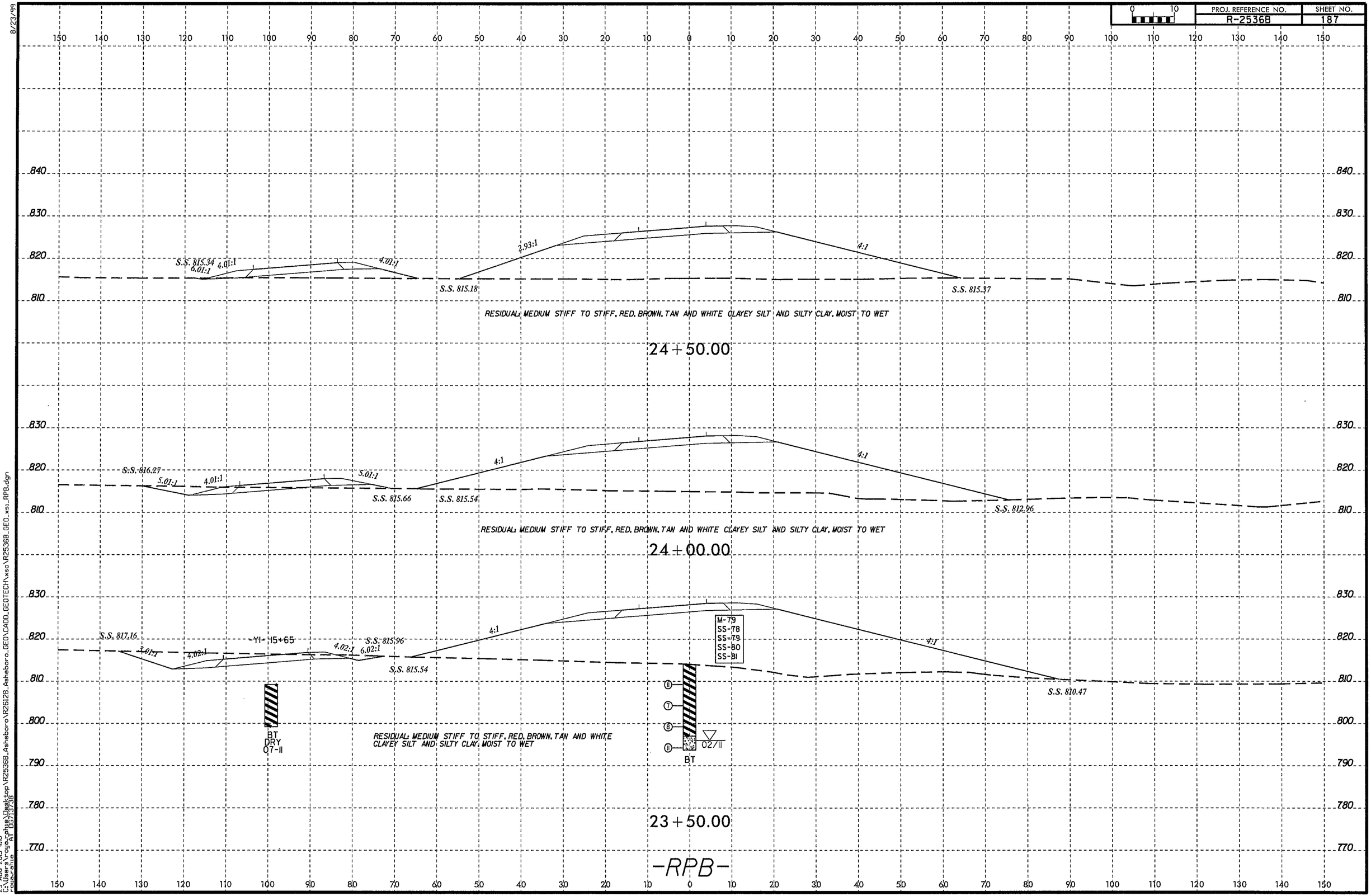
rouse_phil AT DG713/38

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	187



8/23/99

29-AUG-2013 11:10
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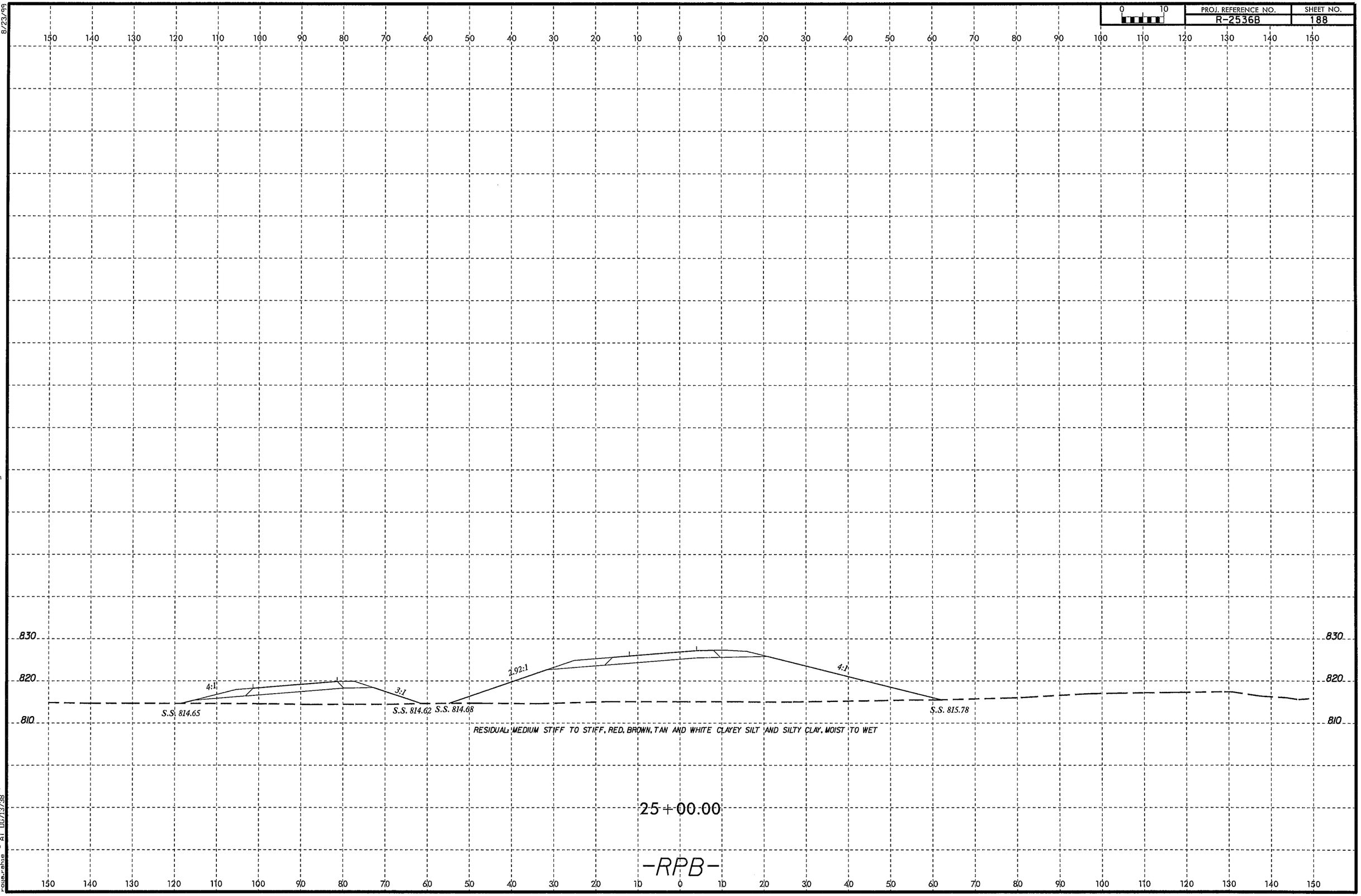
rouquerahie AT DS/13/38



8/23/99
29-AUG-2013 11:10
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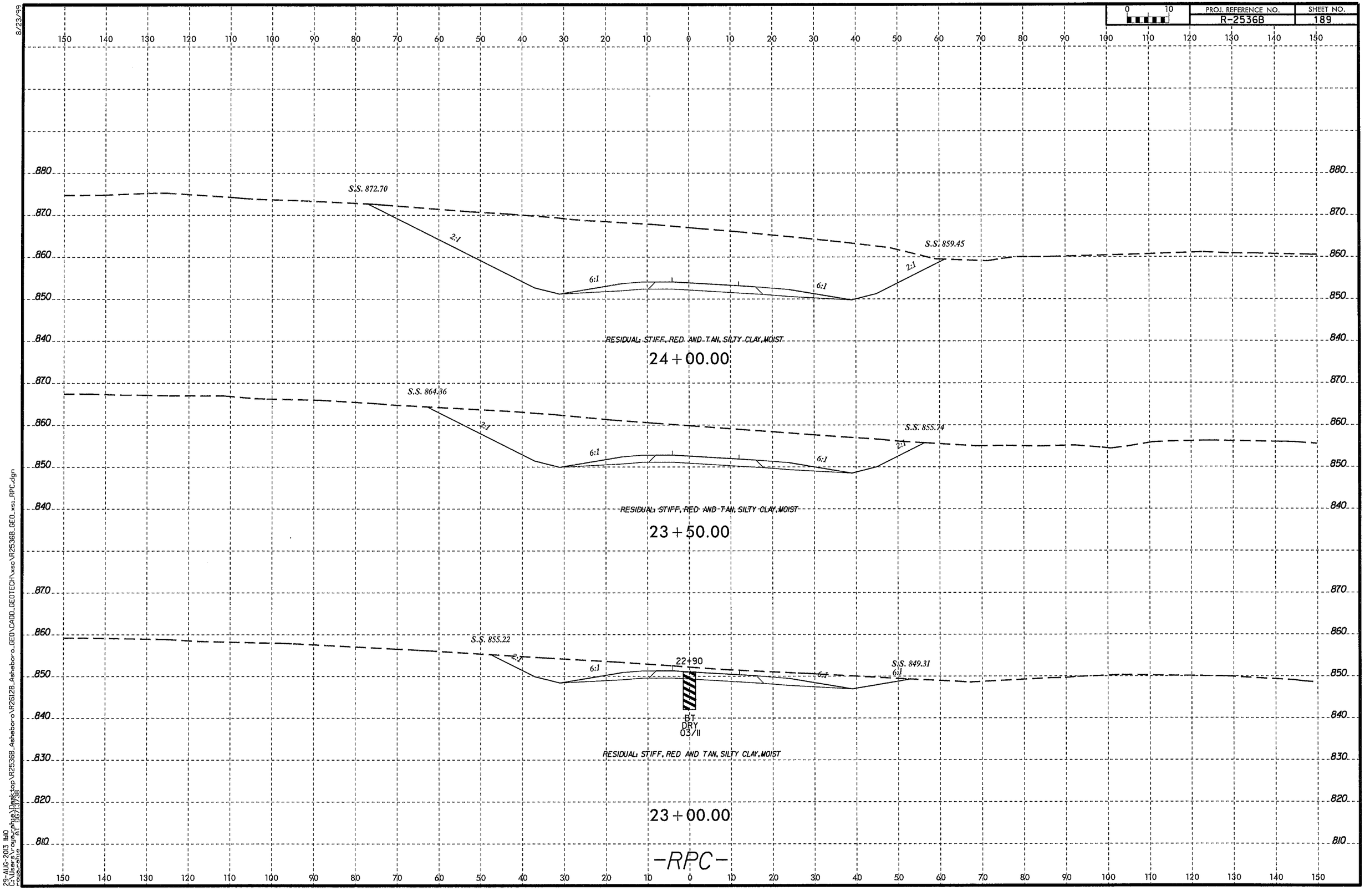
roya.rahe AT DB/13738



8/23/99
29-AUG-2013 11:10
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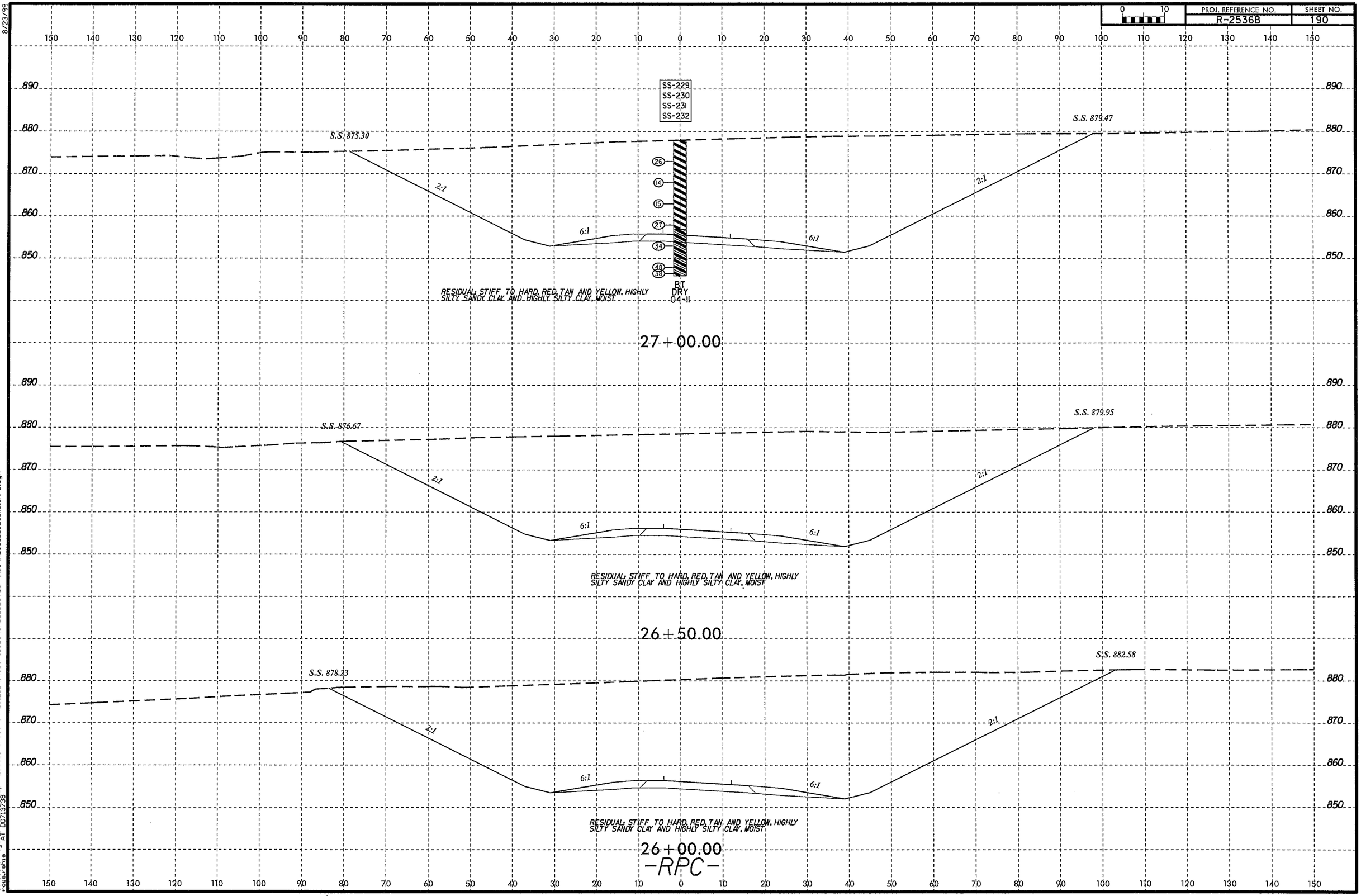
roux.zone
A1 D6713/38



8/23/99
29-AUG-2013 14:10
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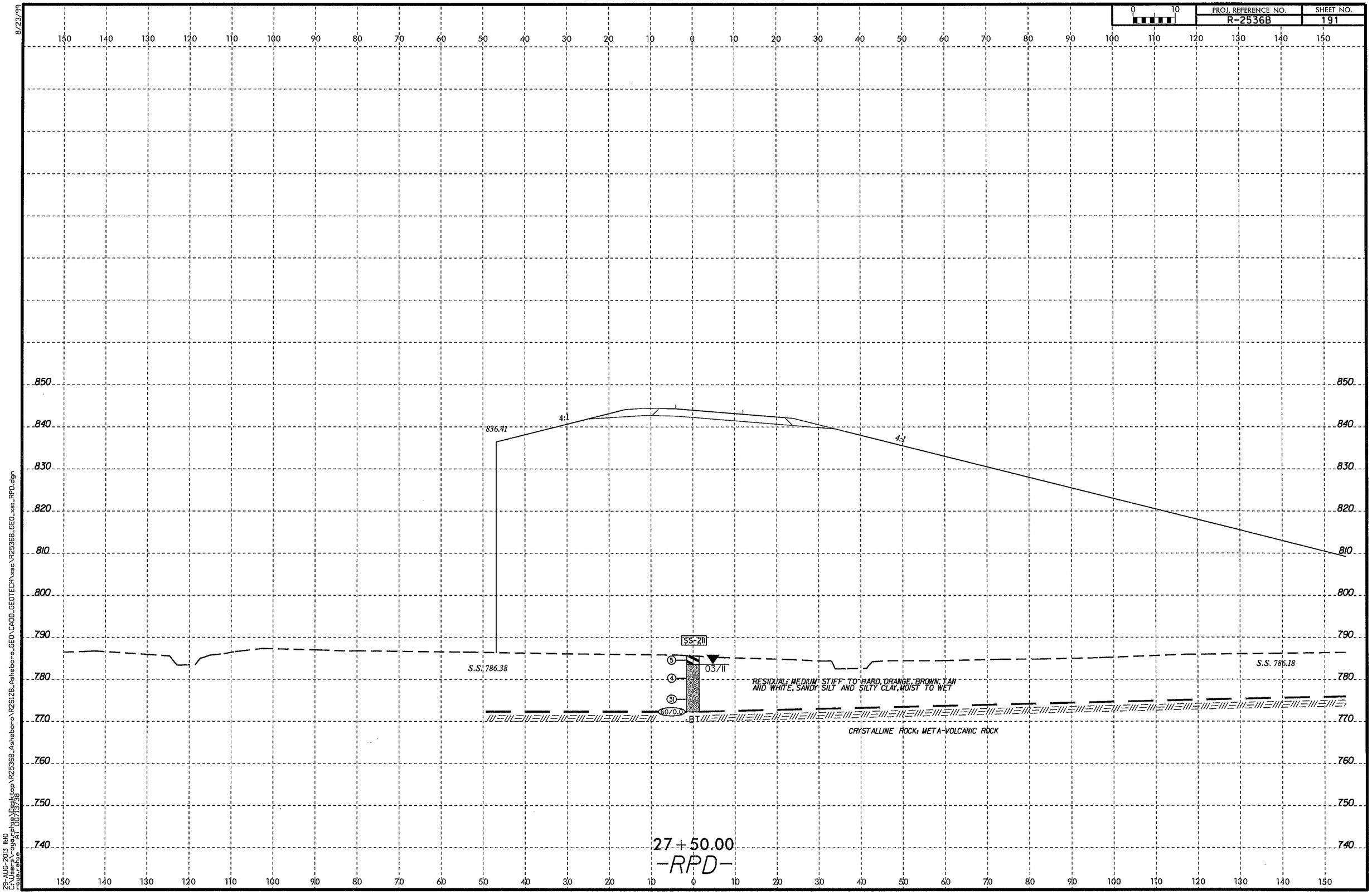
roger.shre AT D9713738



8/23/99

29-AUG-2013 11:10
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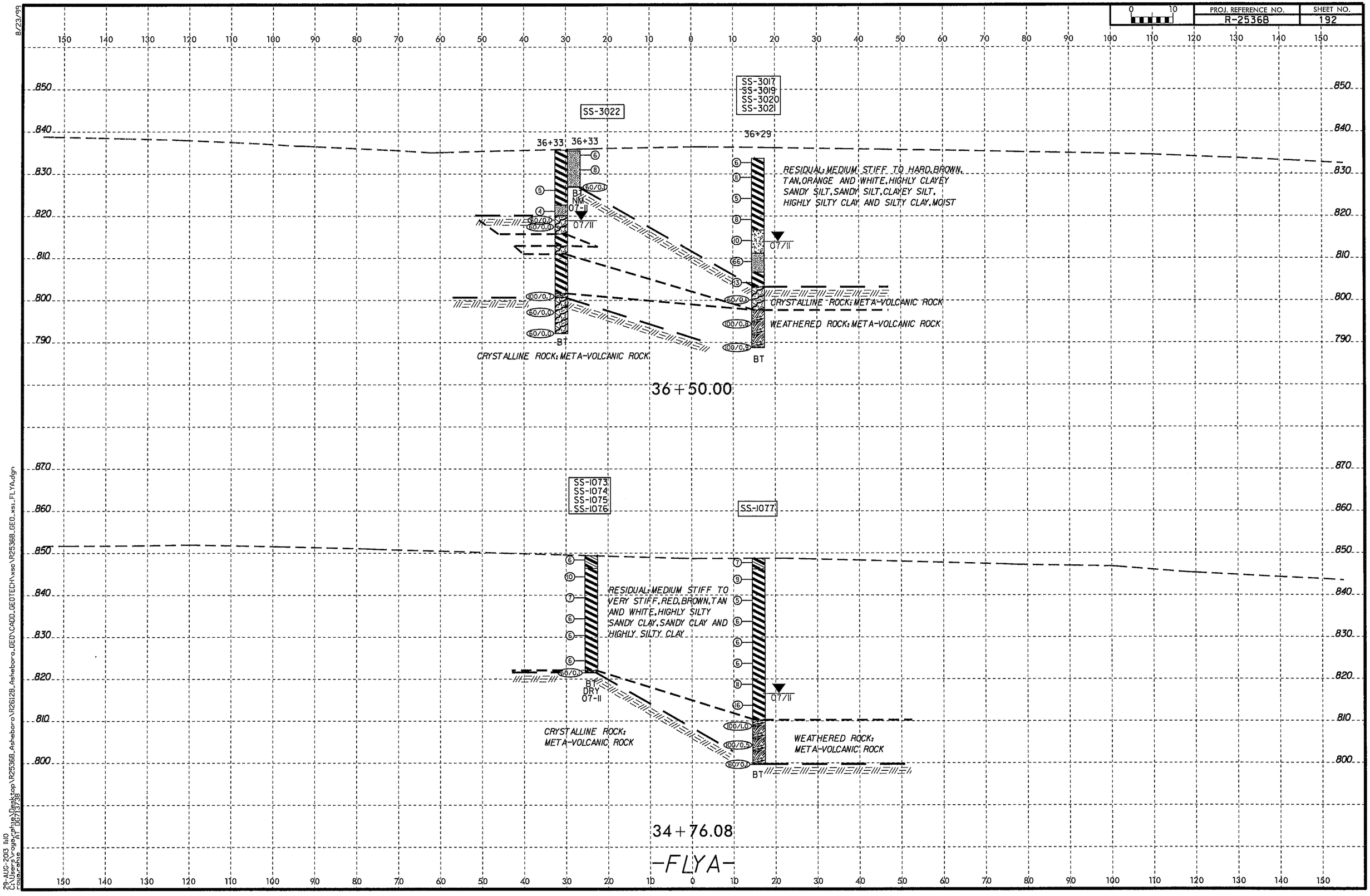
roa.rohani
AT 105/13/38



8/23/99
29-AUG-2013 11:10
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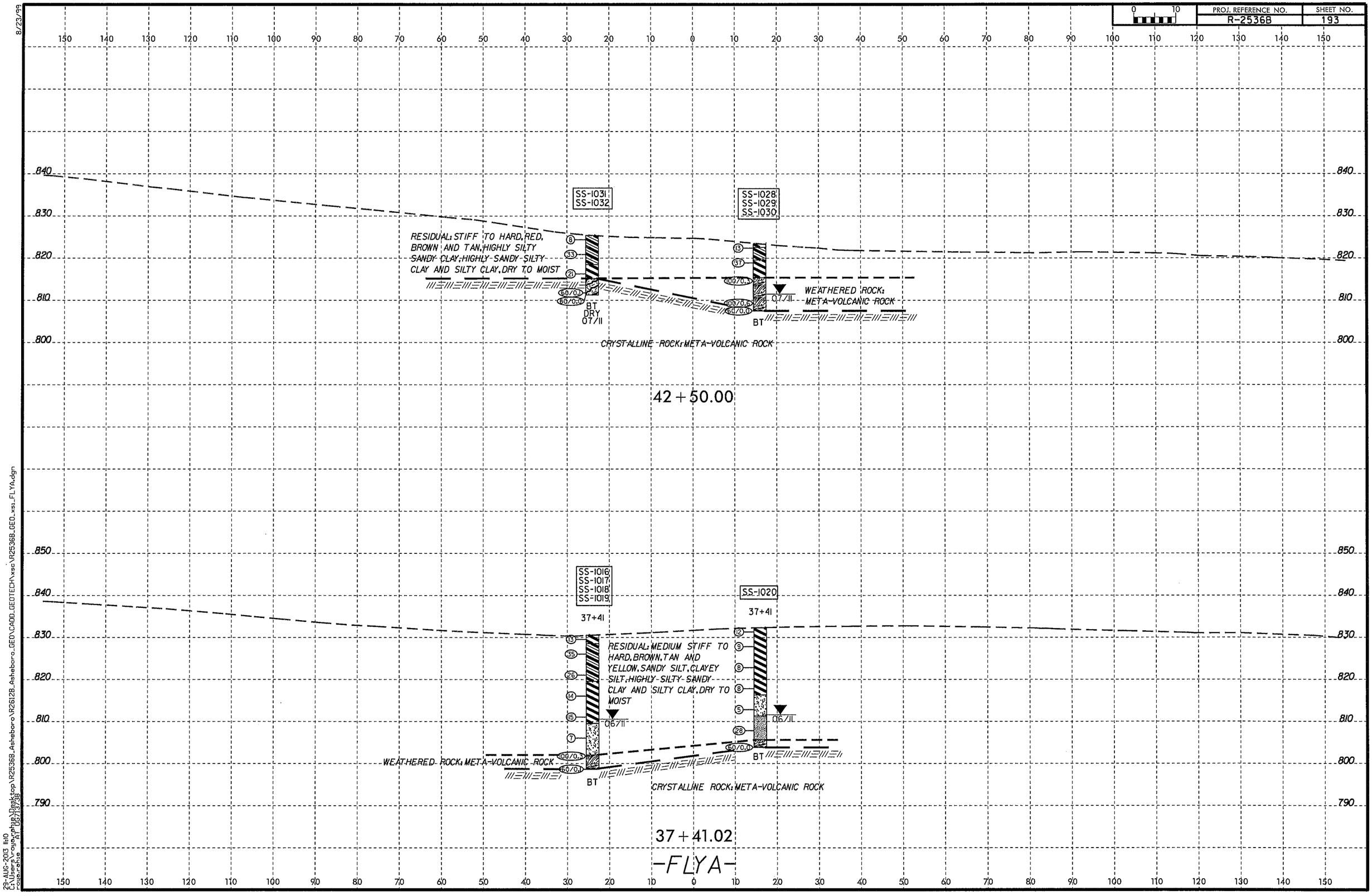
rogerphillips AT 06/13/36



8/23/99
23-AUG-2013 11:10
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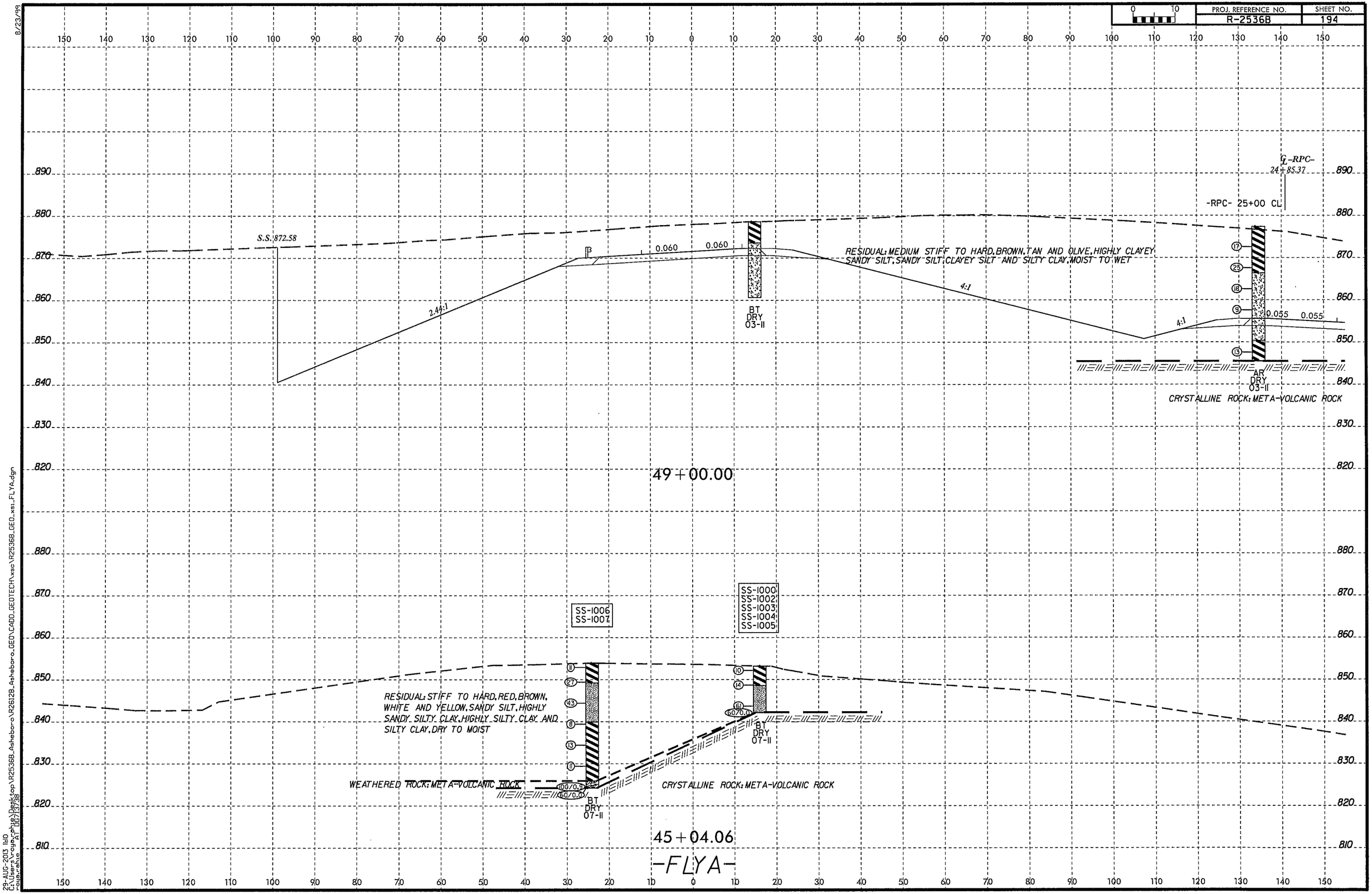
roughrphe



8/23/99

29-AUG-2013 11:10
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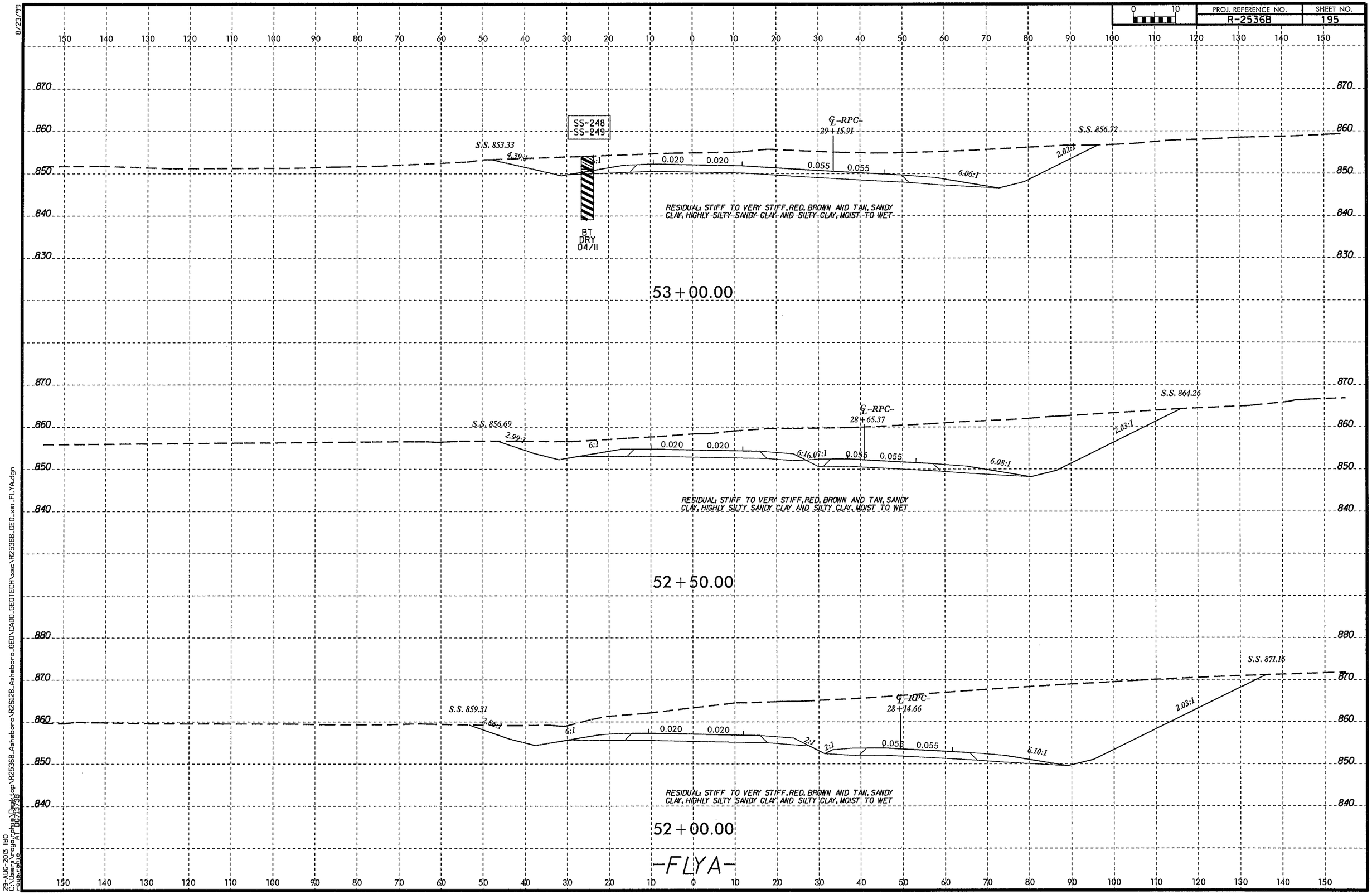
roya.rahe AT 06/13/38



8/23/99

23-AUG-2013 11:10
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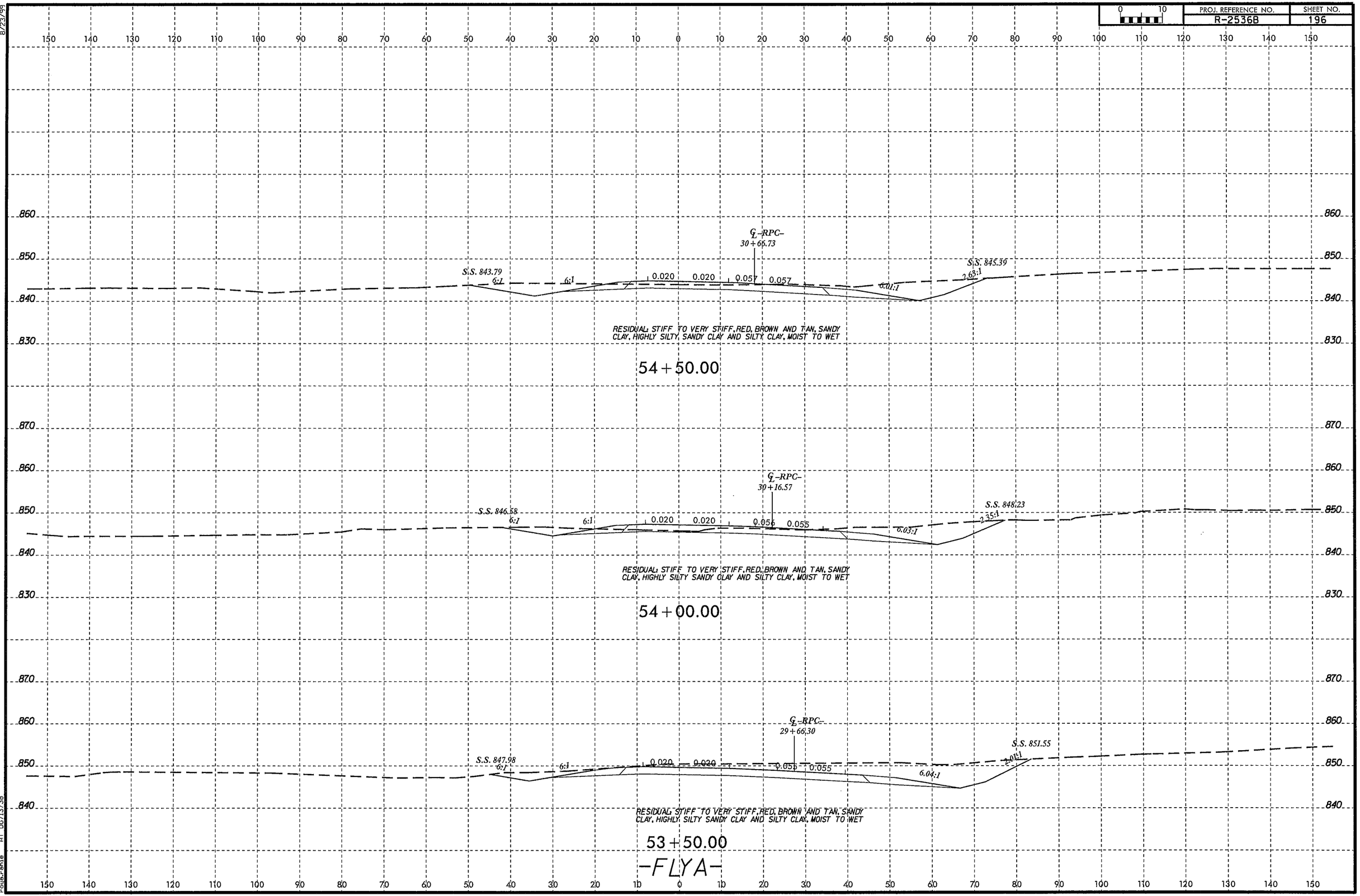
rogerphe AT DG7713738



8/23/99

29-AUG-2013 11:10
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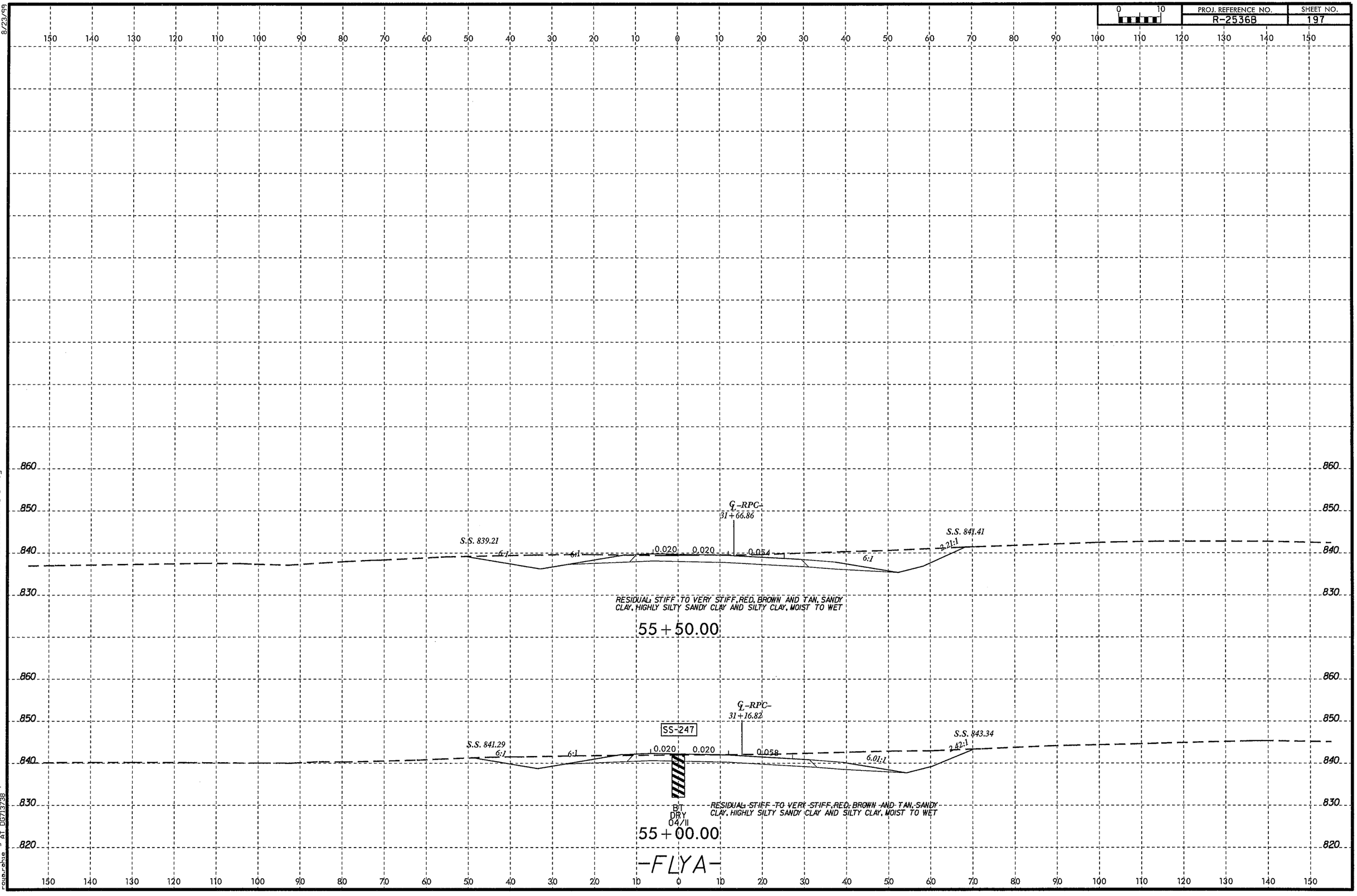
rogerphe AT 06713738

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	197



8/23/99

29-AUG-2013 11:10
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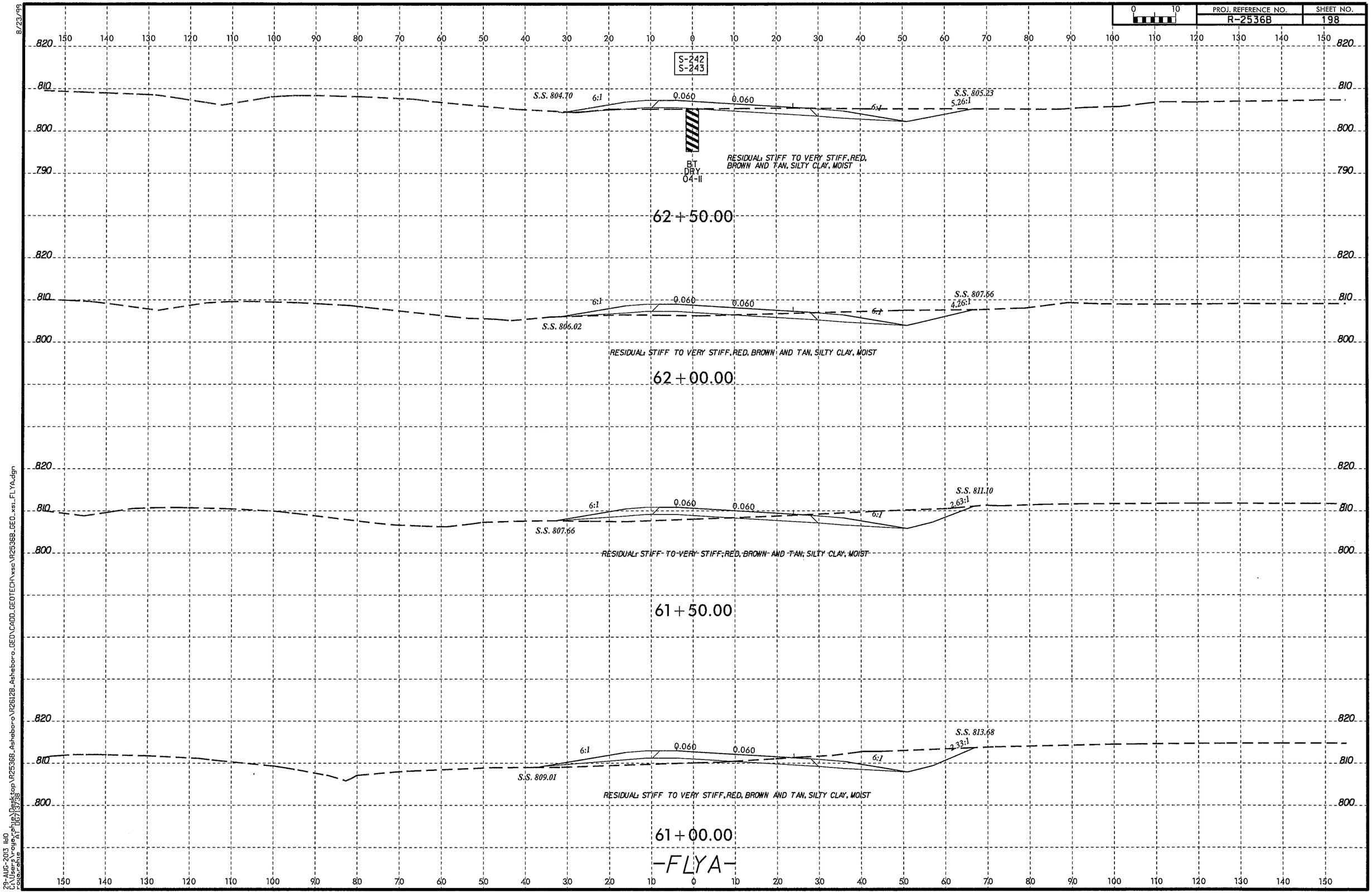
roupe.phil
R1 06/13/96



8/23/99
29-AUG-2013 11:10
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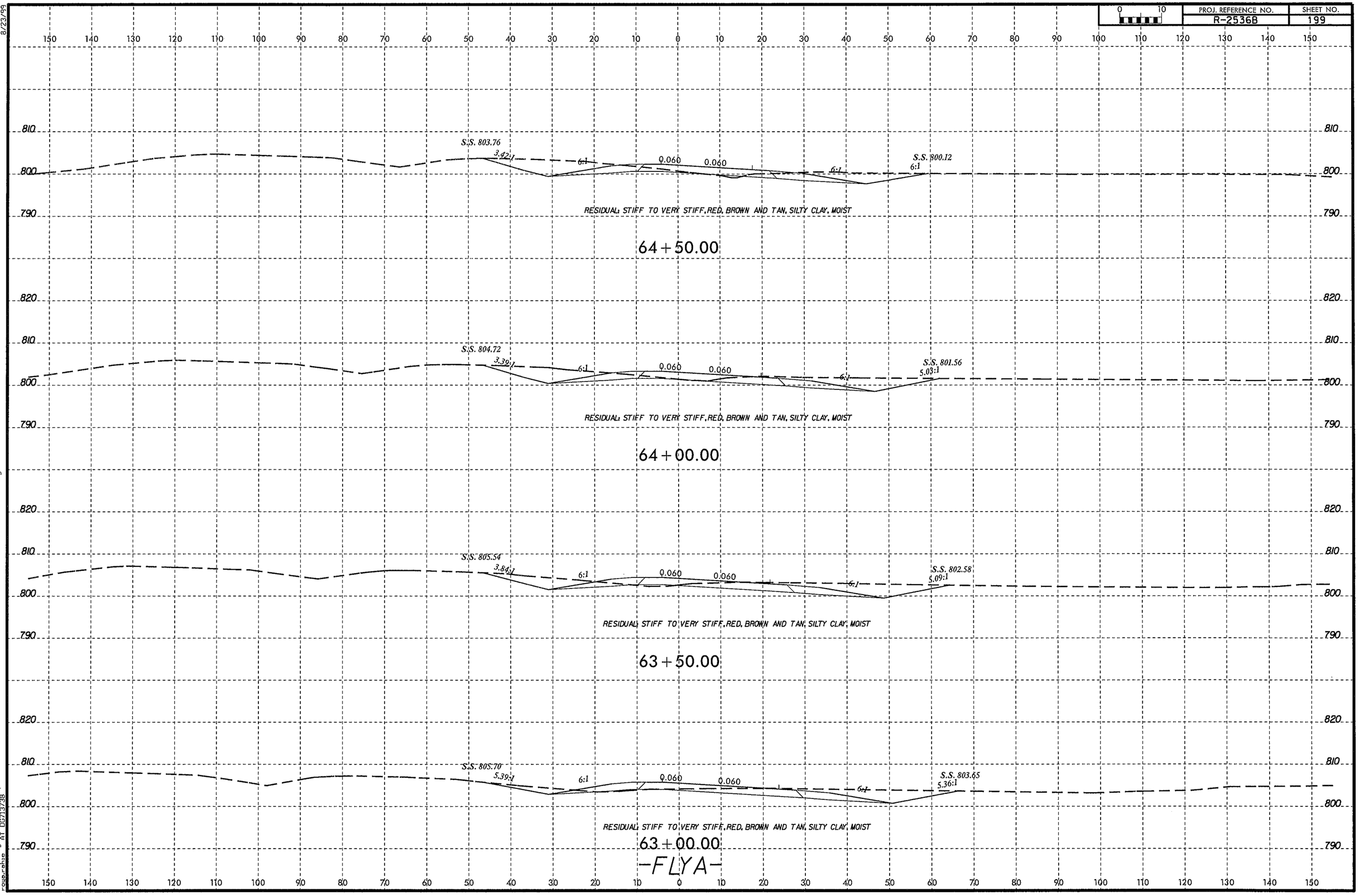
roger.phillips AT DOT13738

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	199



8/23/99

29-AUG-2013 11:10
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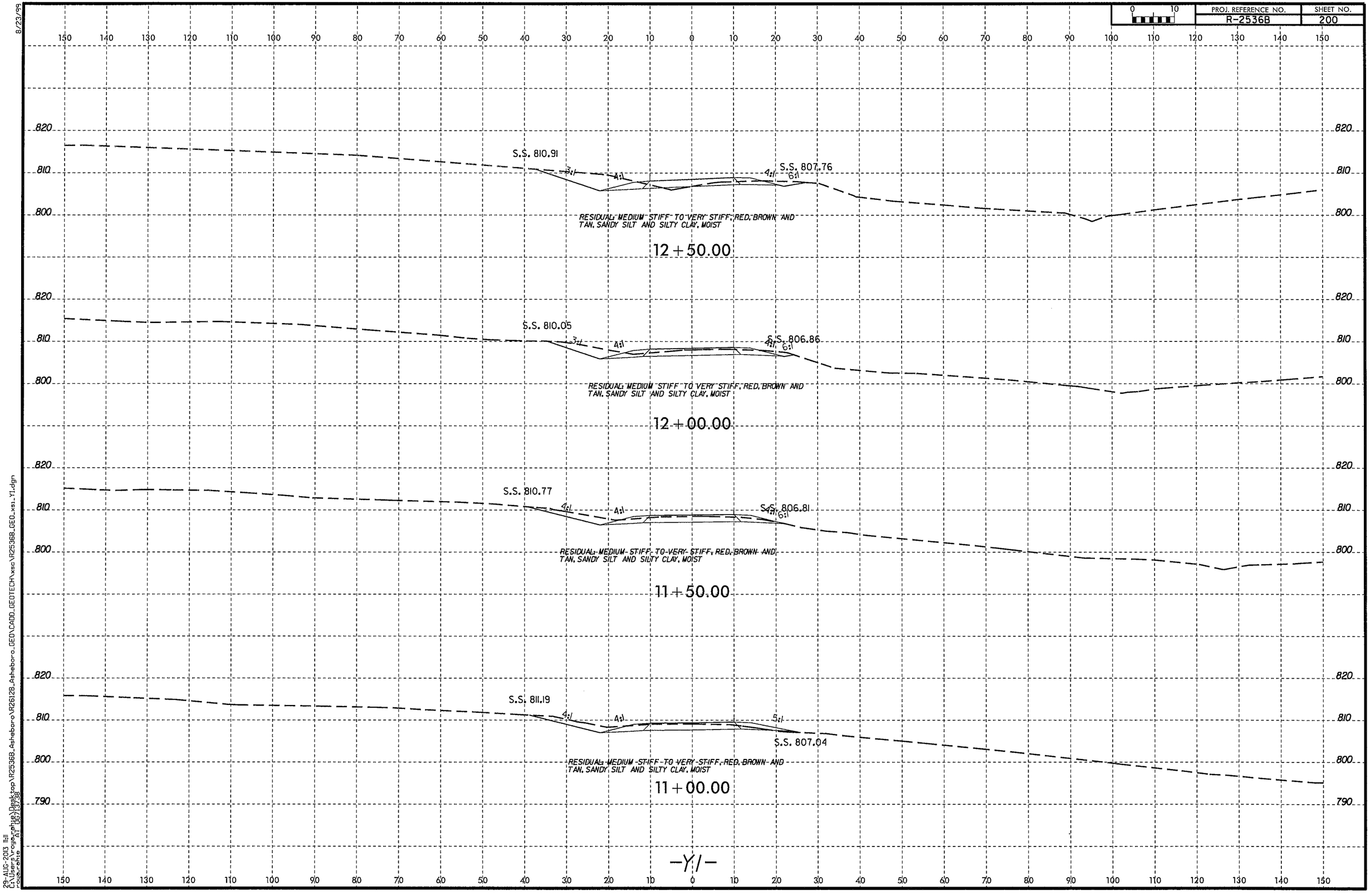
roya.rahe AT 105713738



8/23/99
29-AUG-2013 11:11
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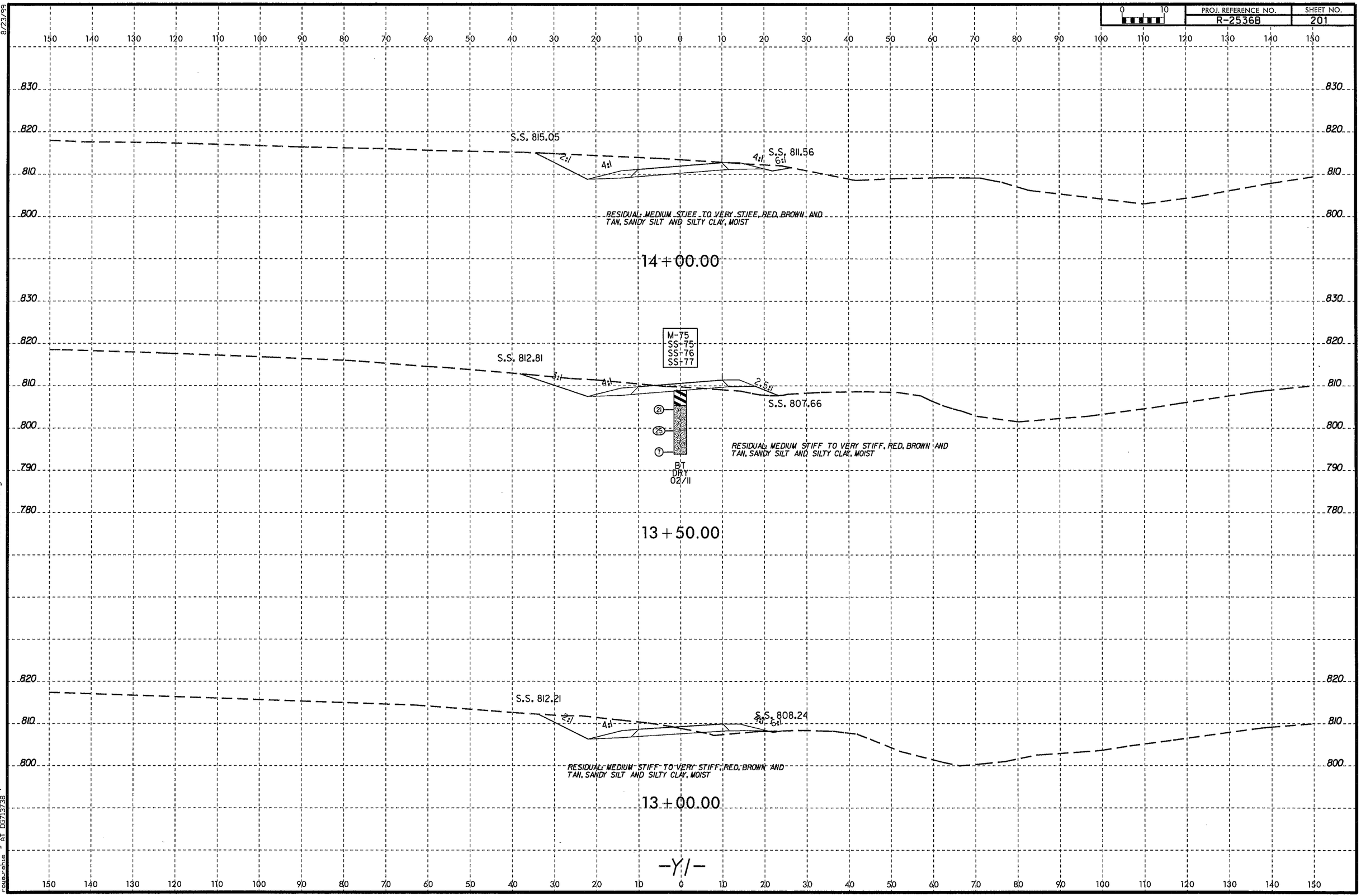

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29-AUG-2013 11:11
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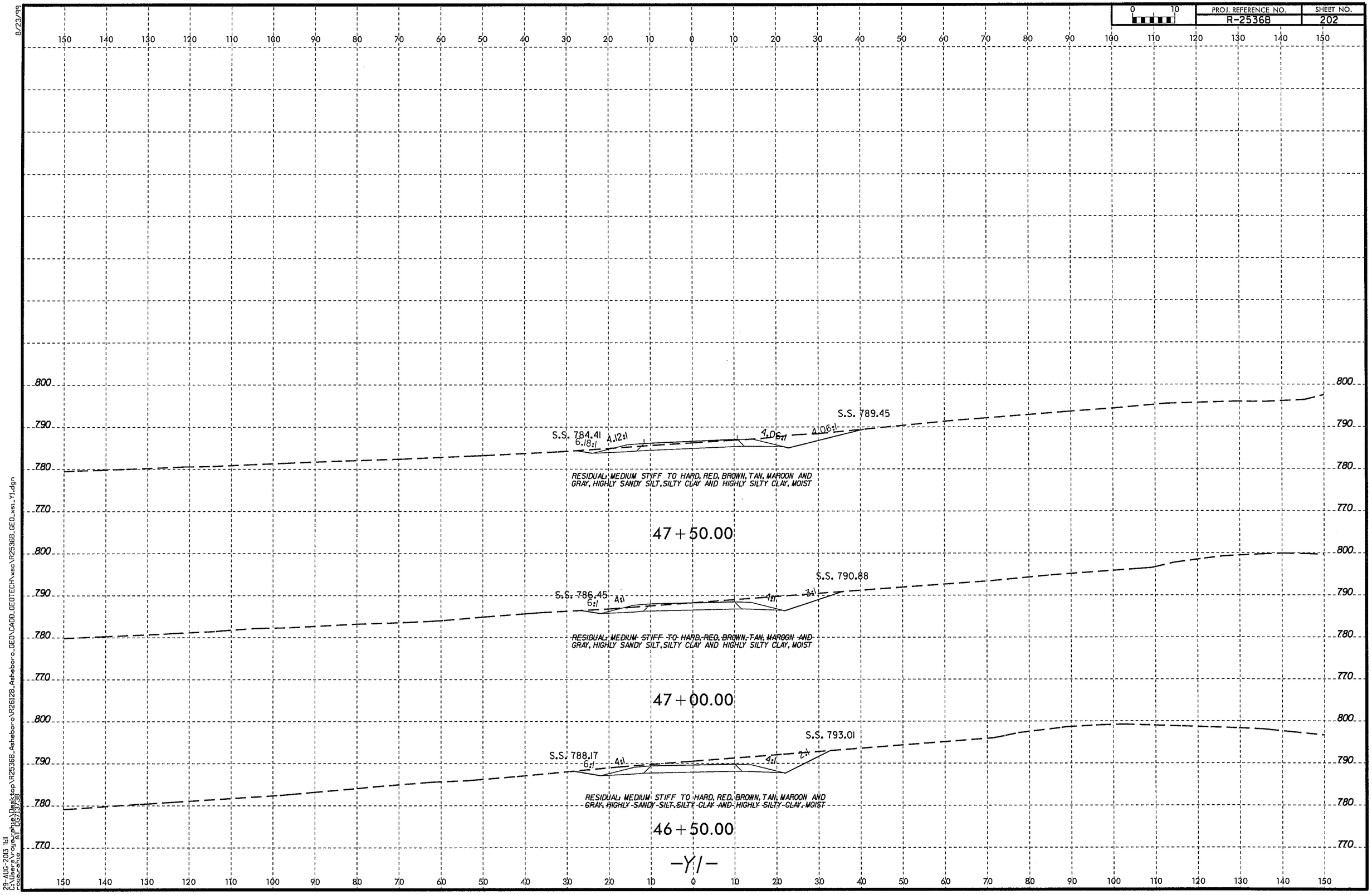
AT 08/13/38

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	202



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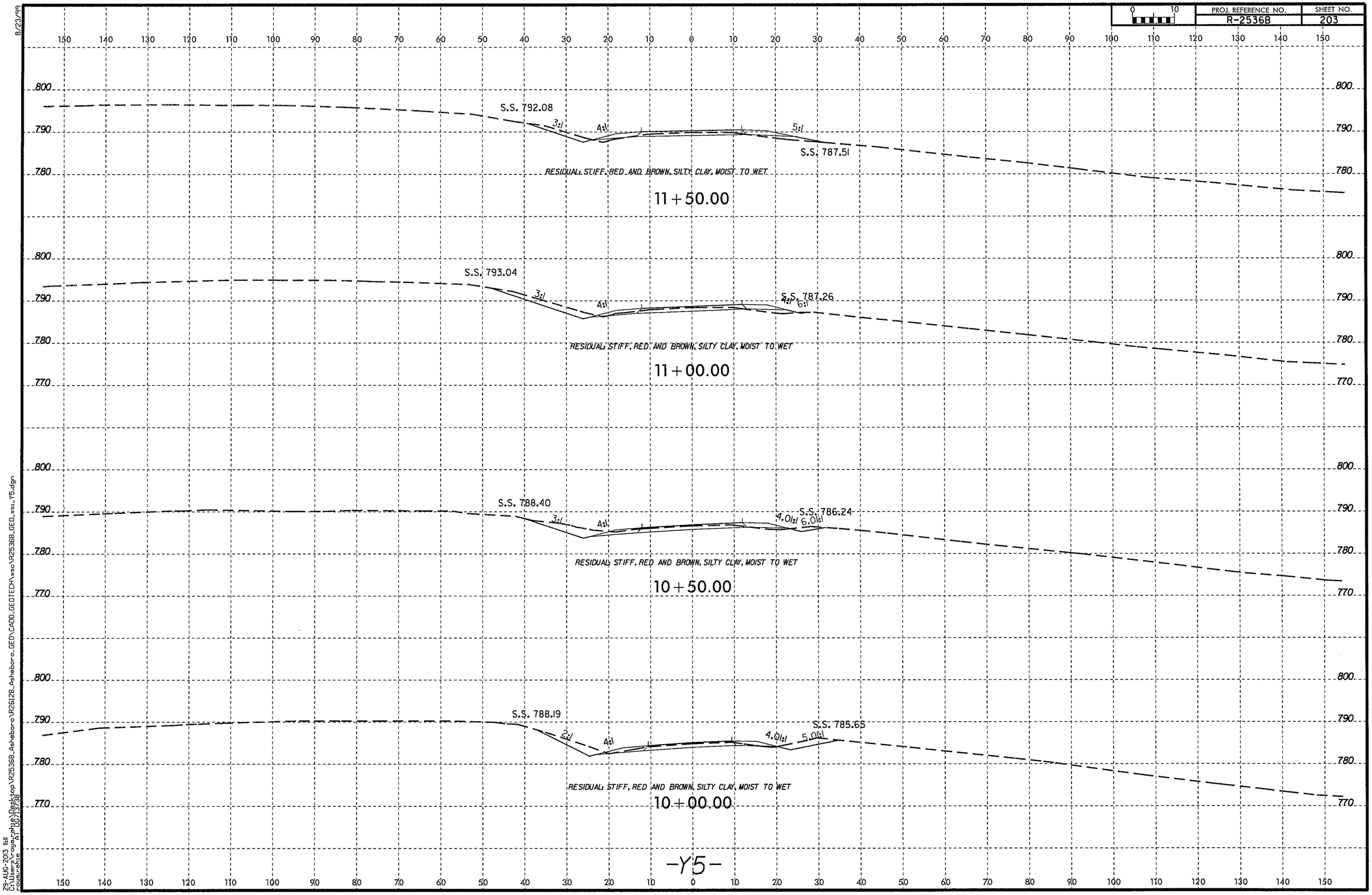

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PROJ. REFERENCE NO.	SHEET NO.
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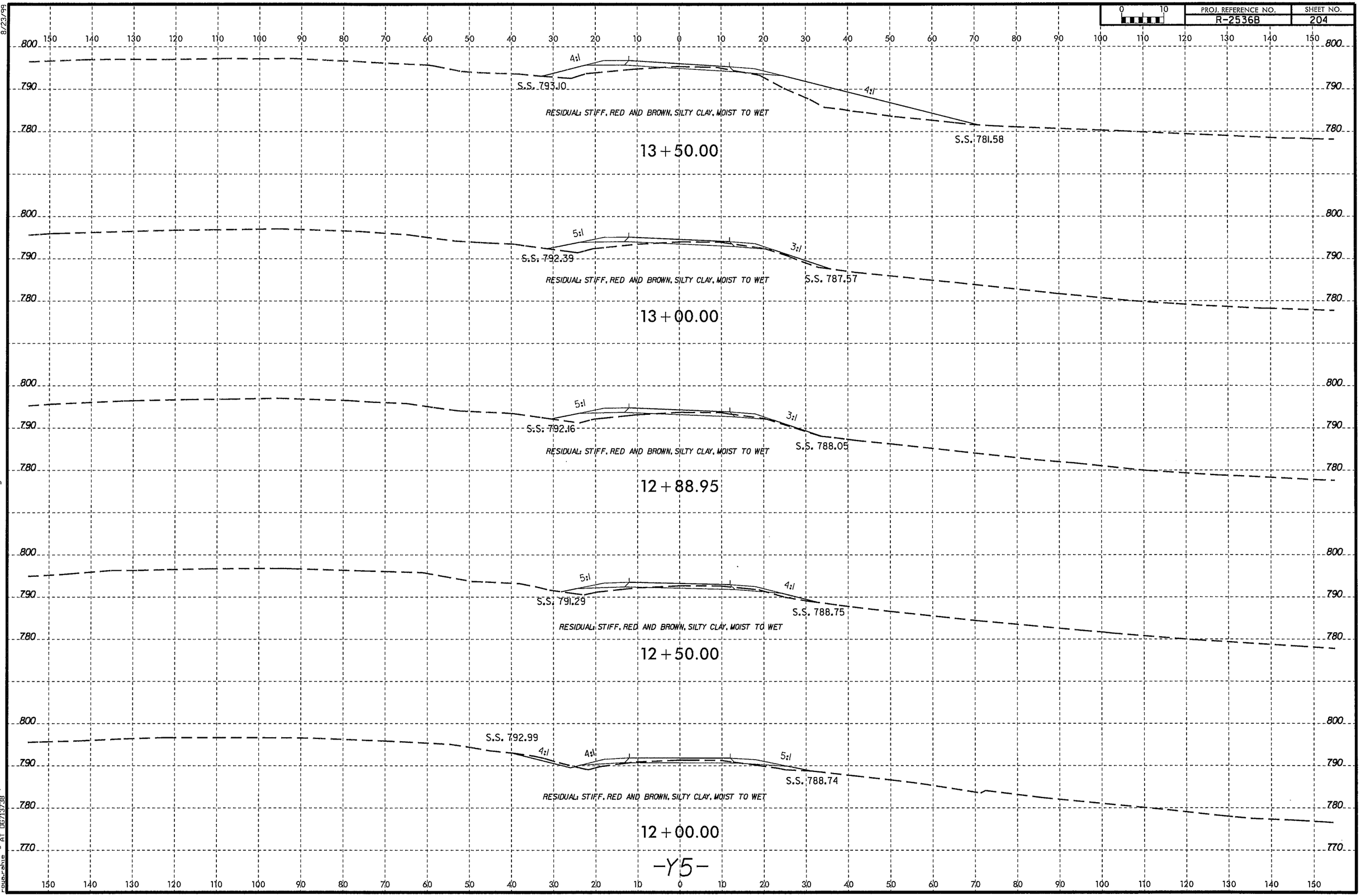

-Y5-

8/23/99

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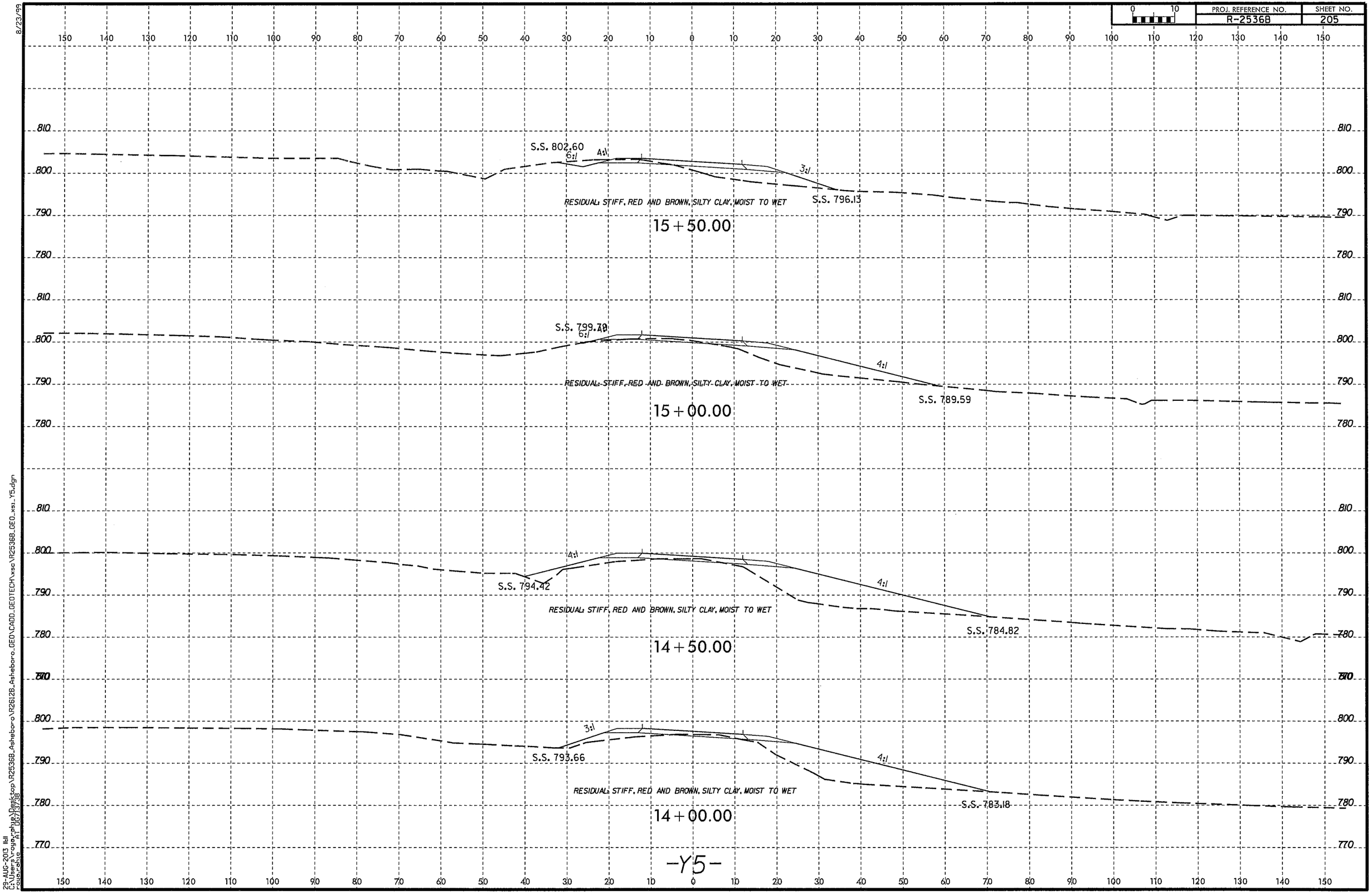

8/23/99
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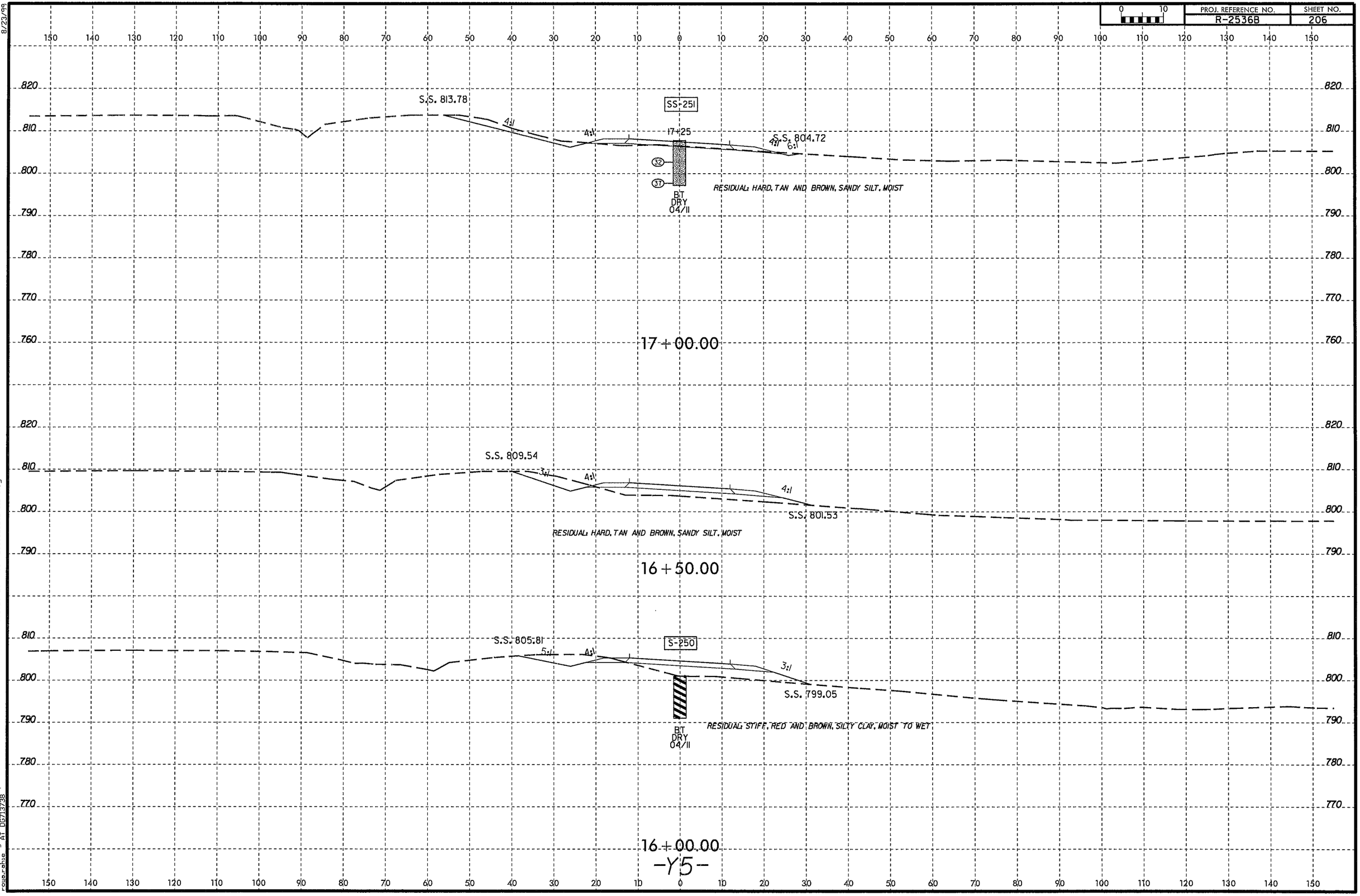
AT 06/13/28



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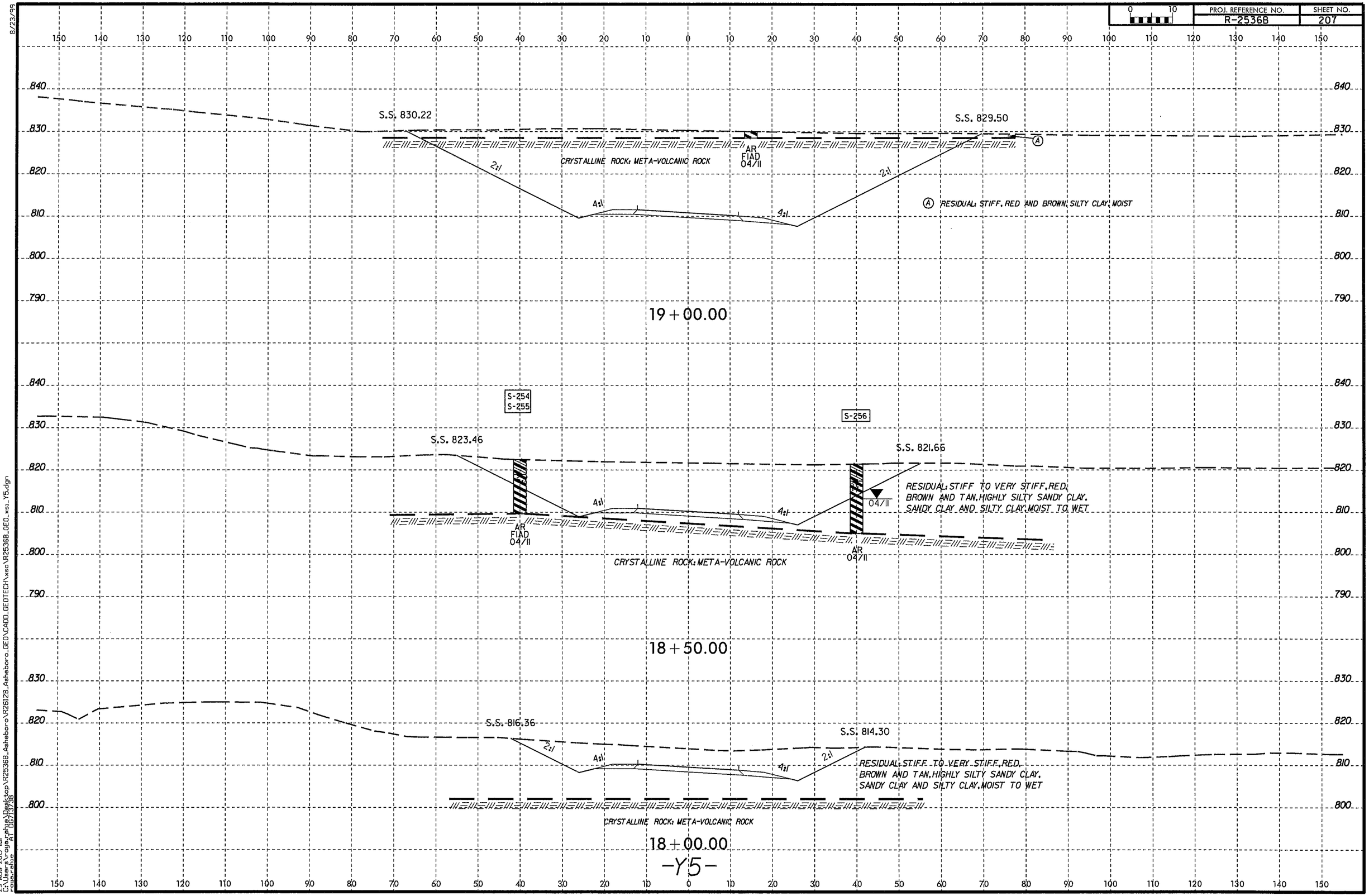

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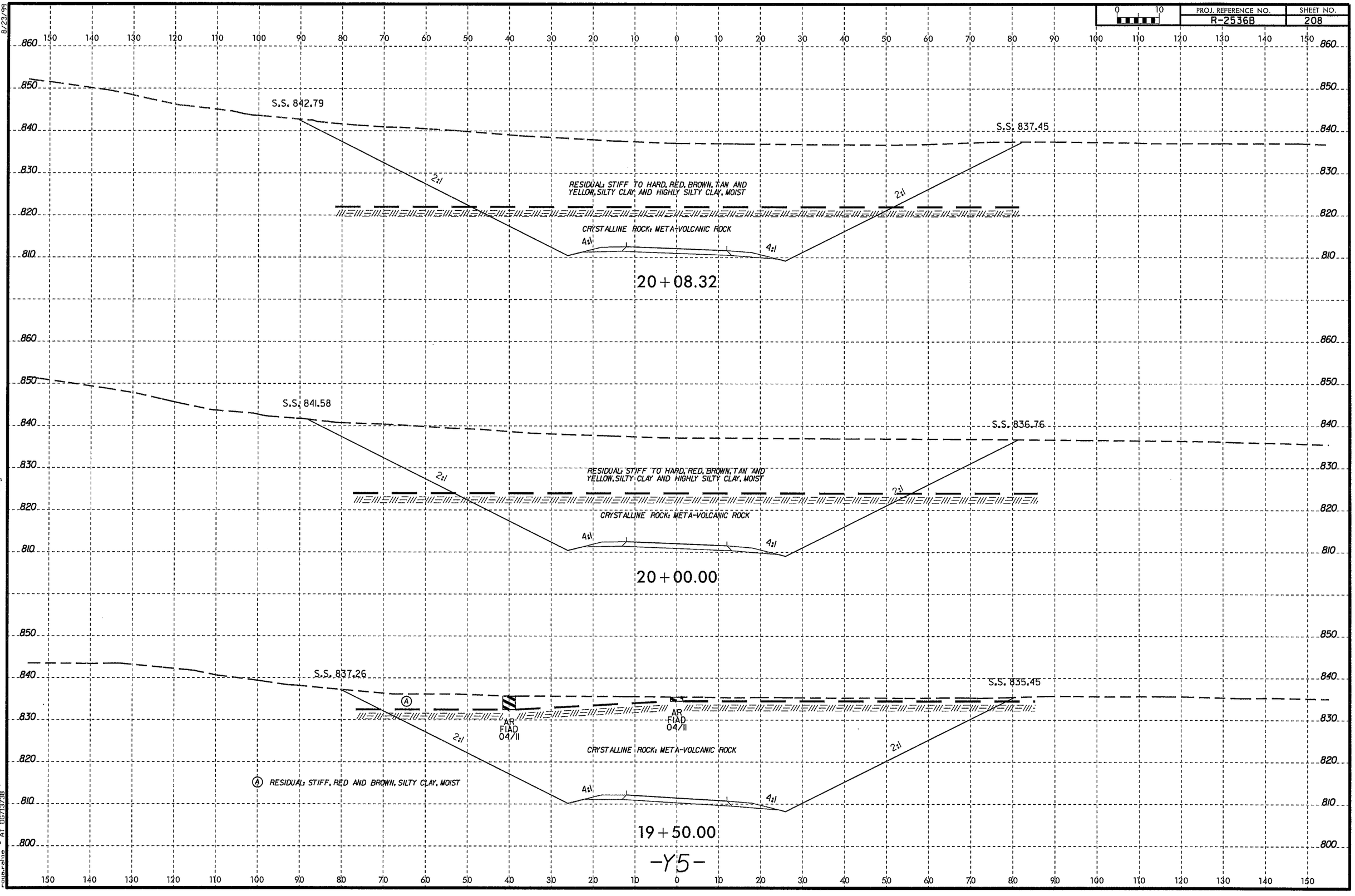

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PROJ. REFERENCE NO.	SHEET NO.
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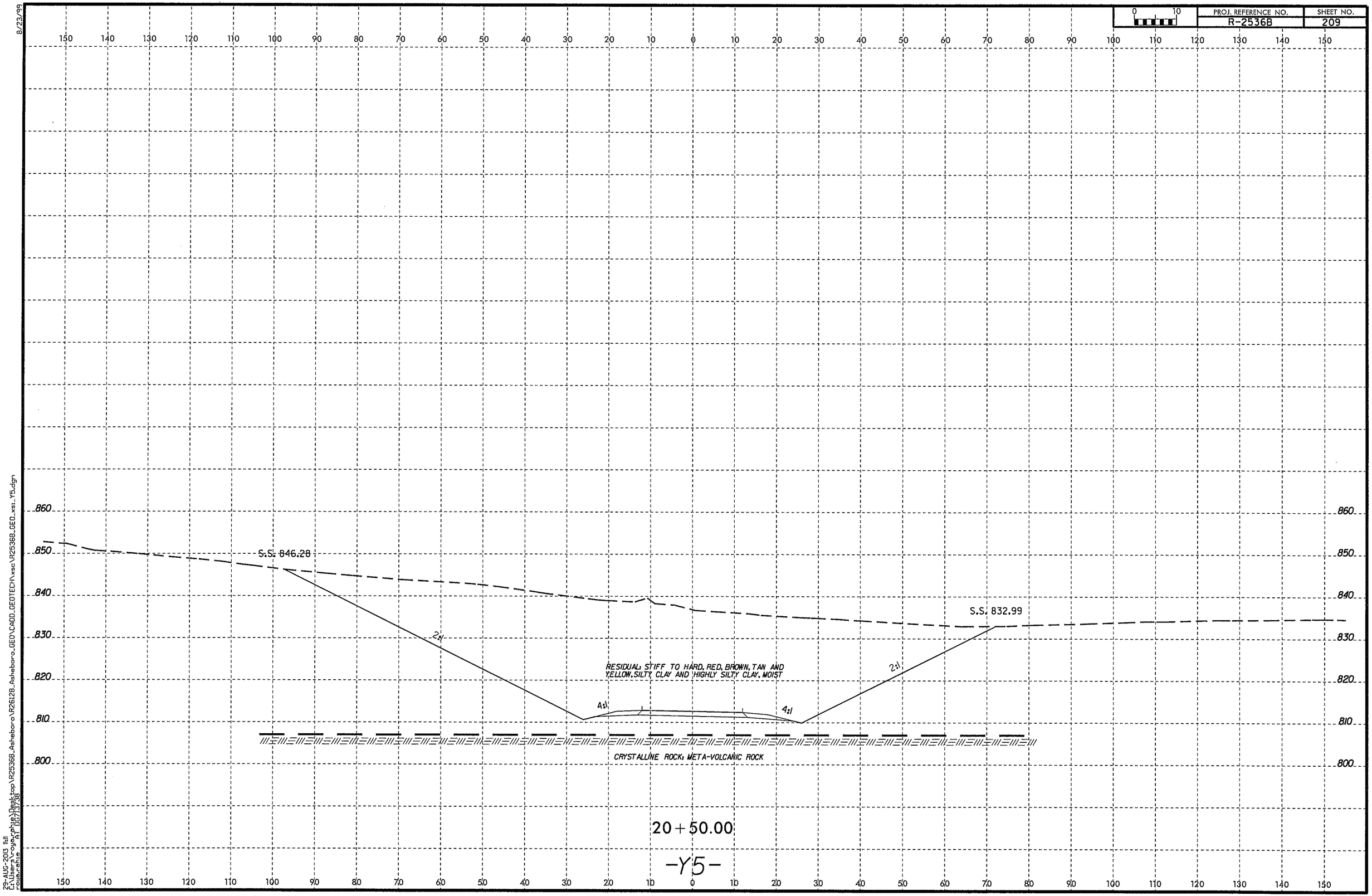

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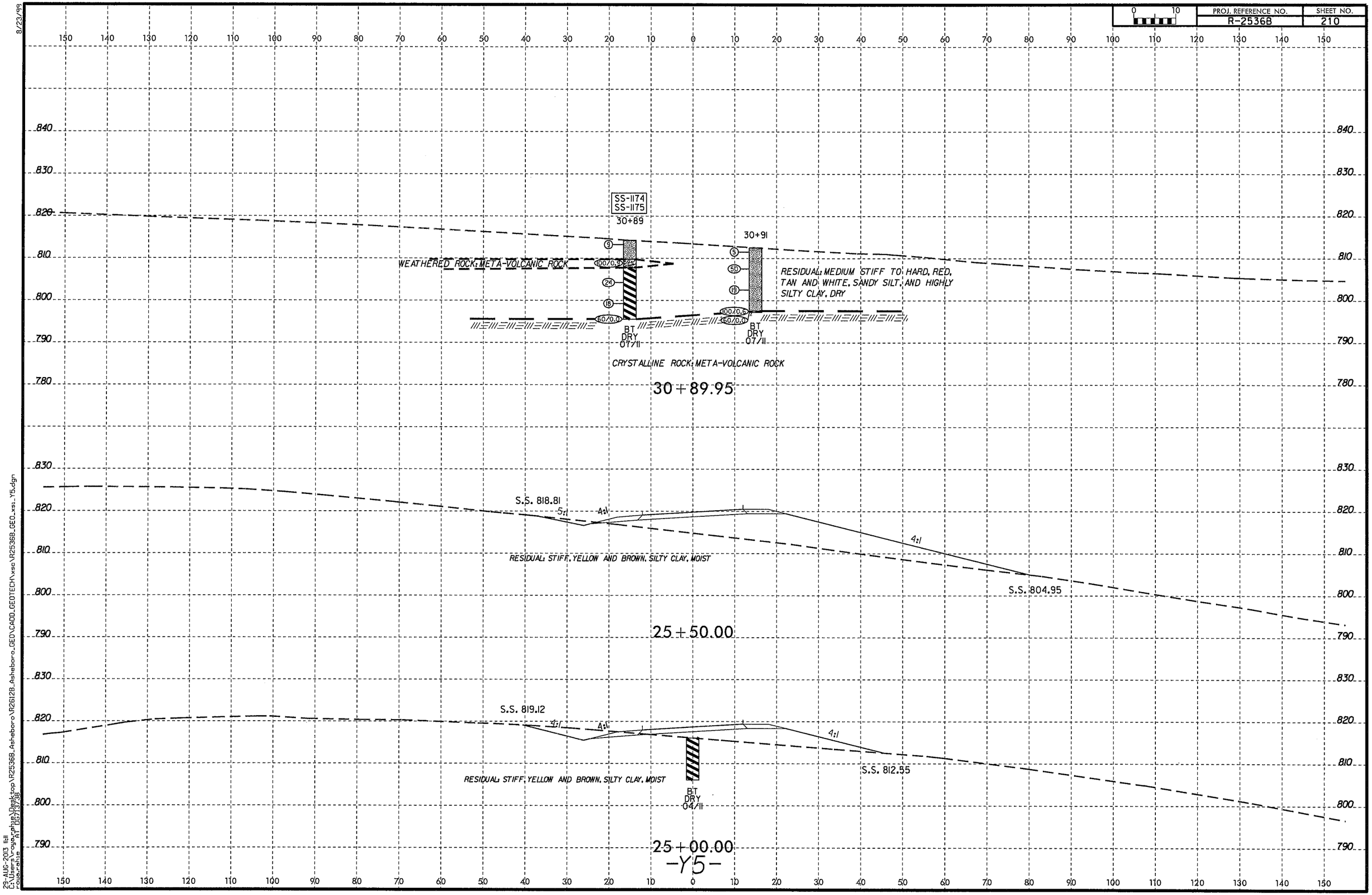

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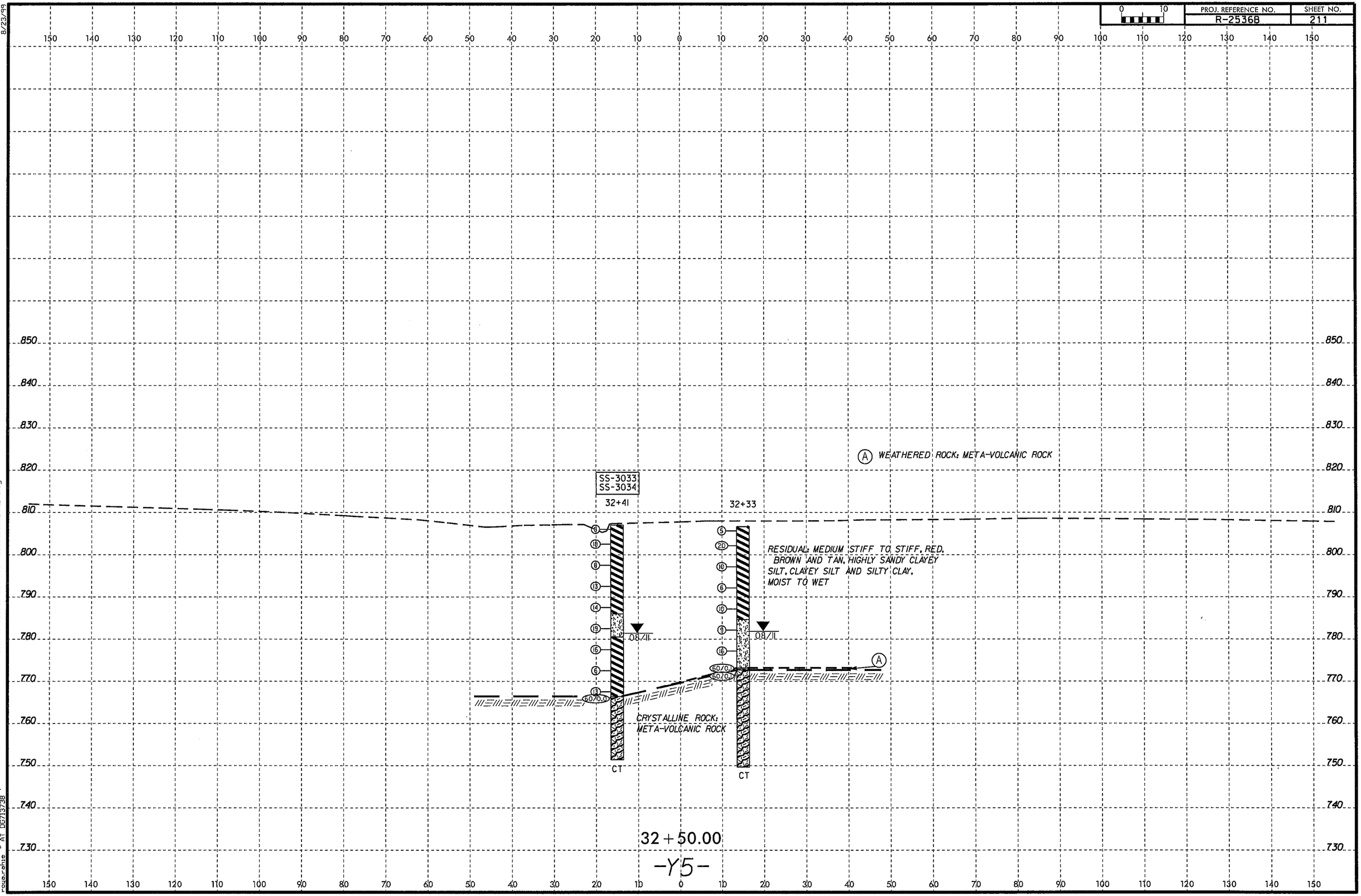

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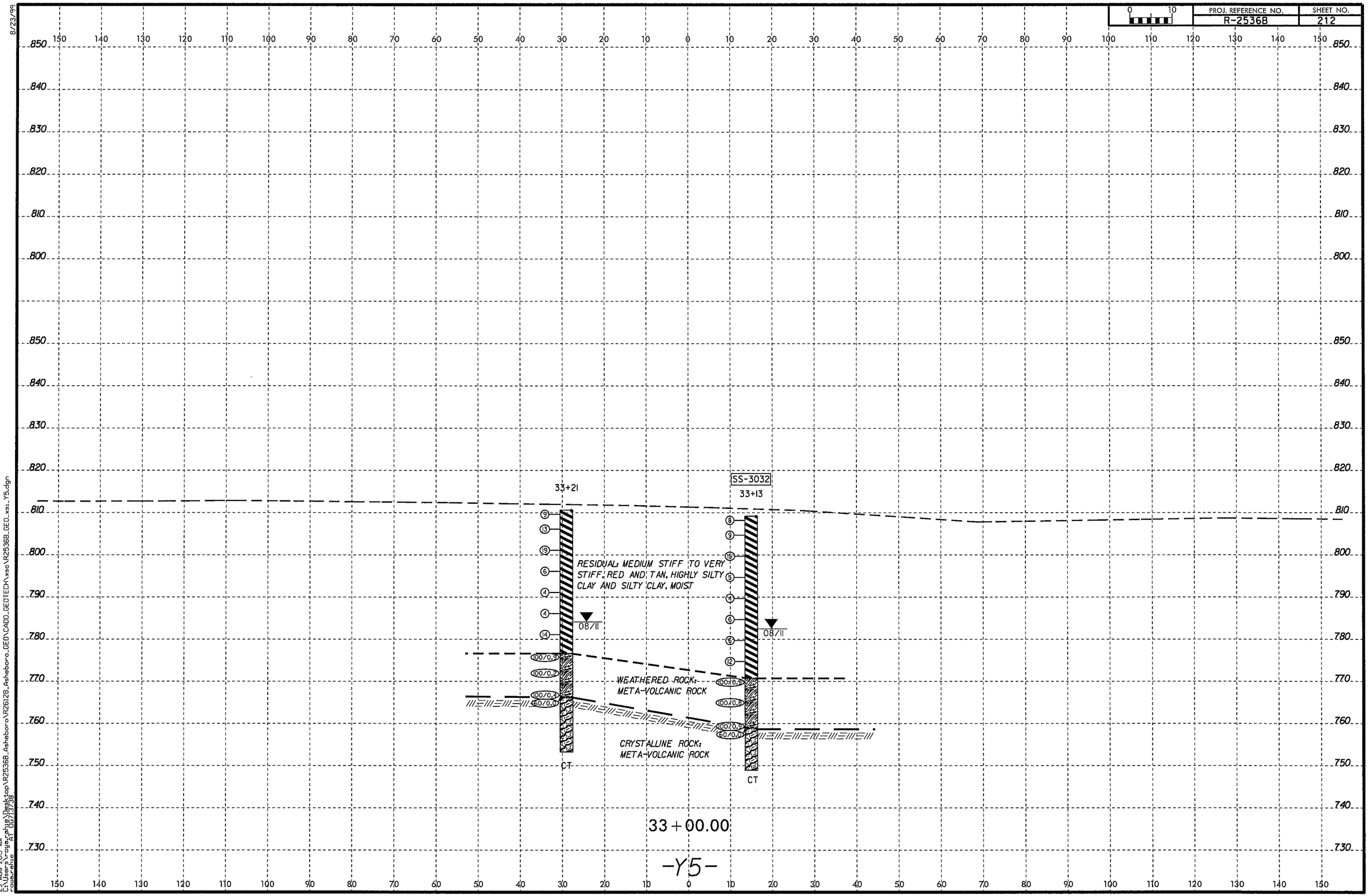

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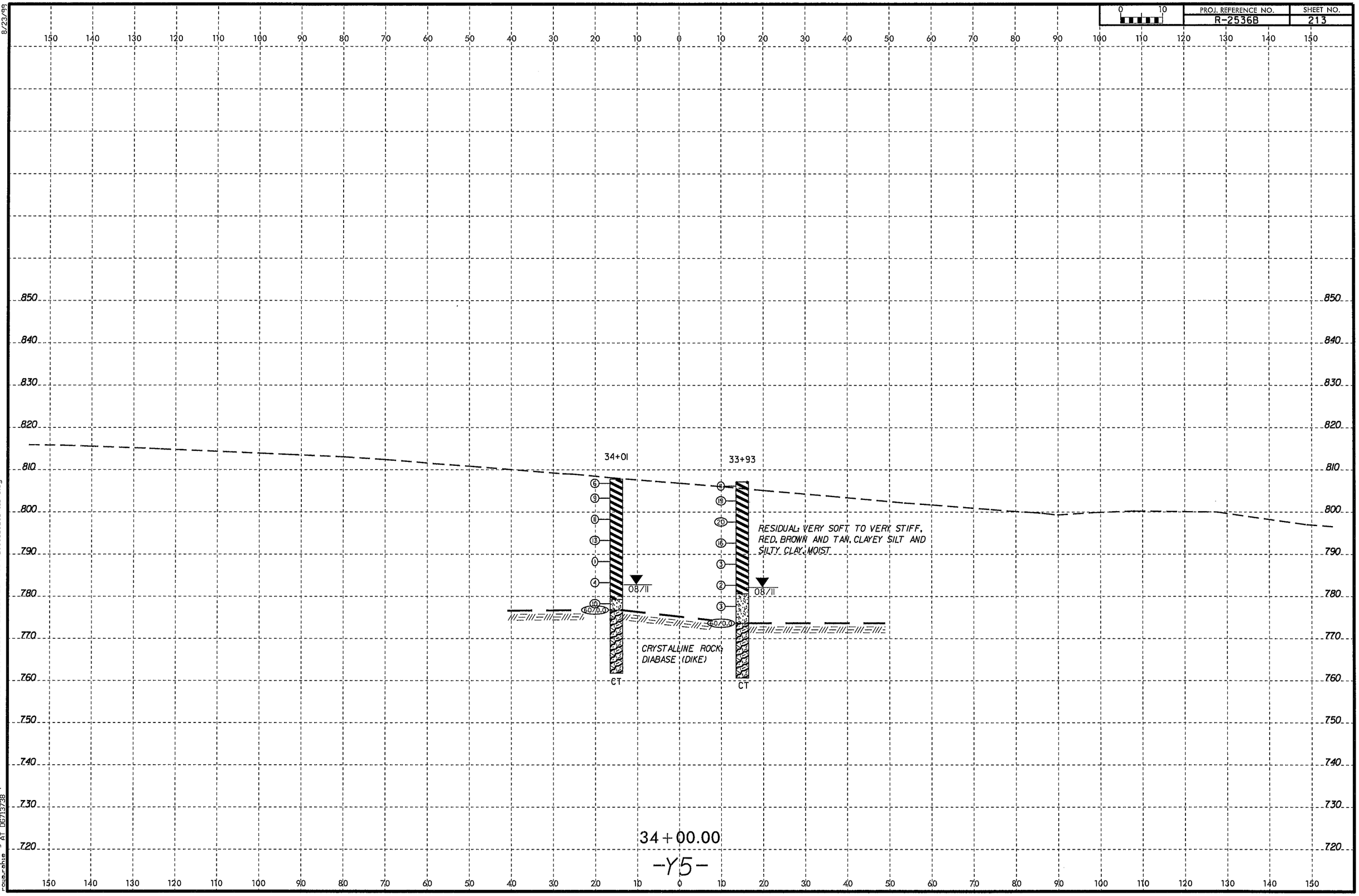

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PROJ. REFERENCE NO.	SHEET NO.
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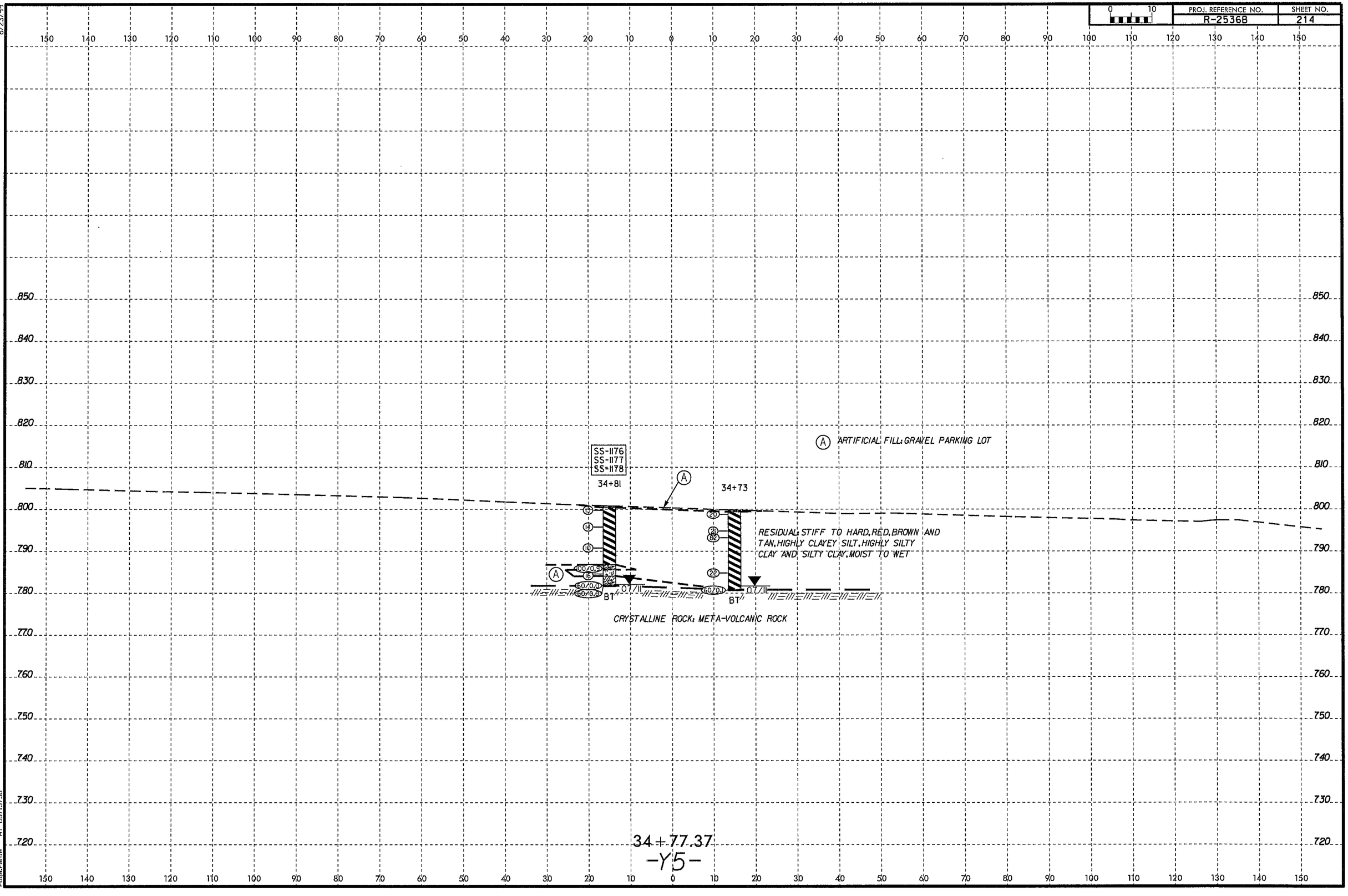

8/23/99

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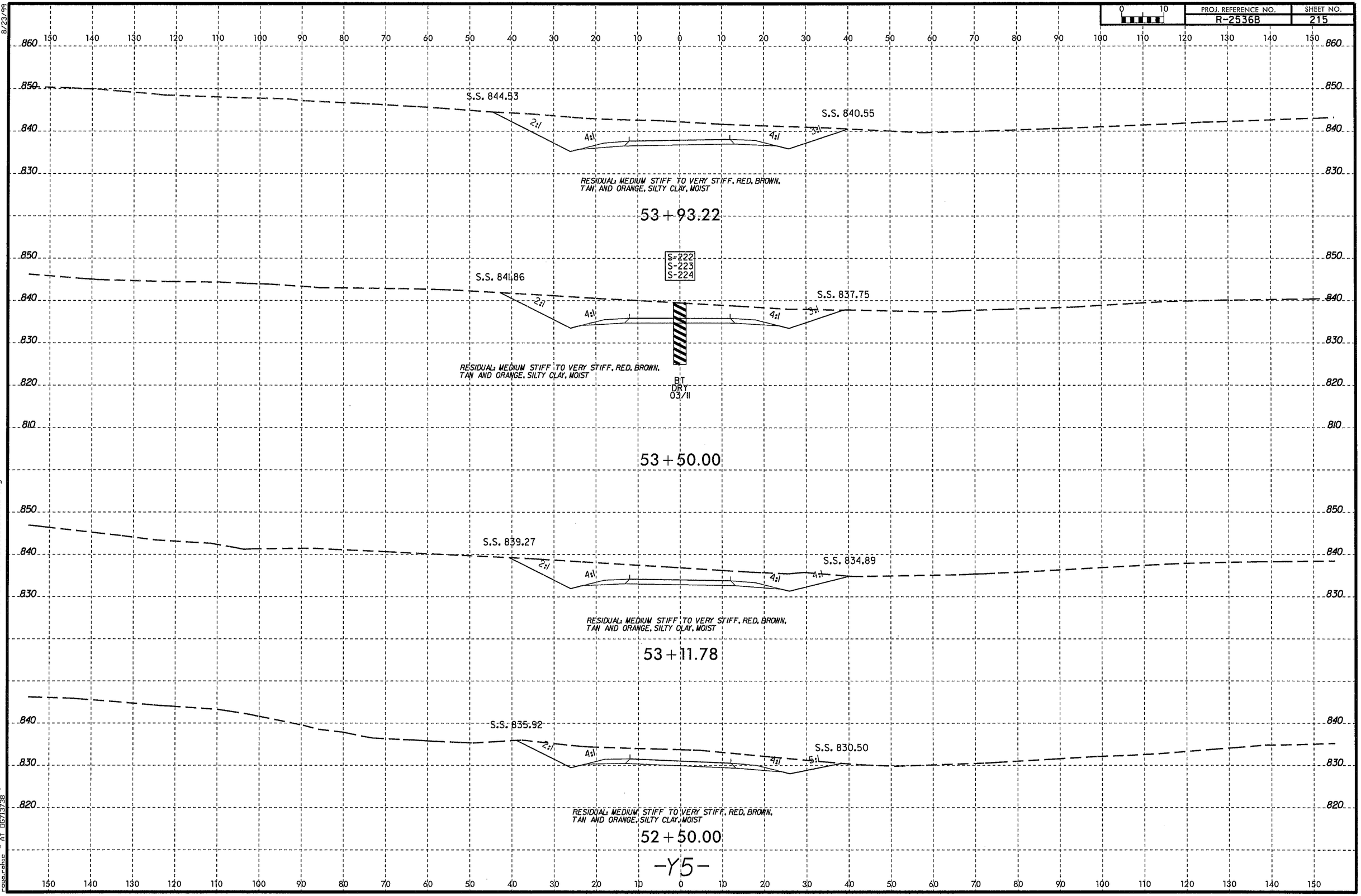

8/23/99
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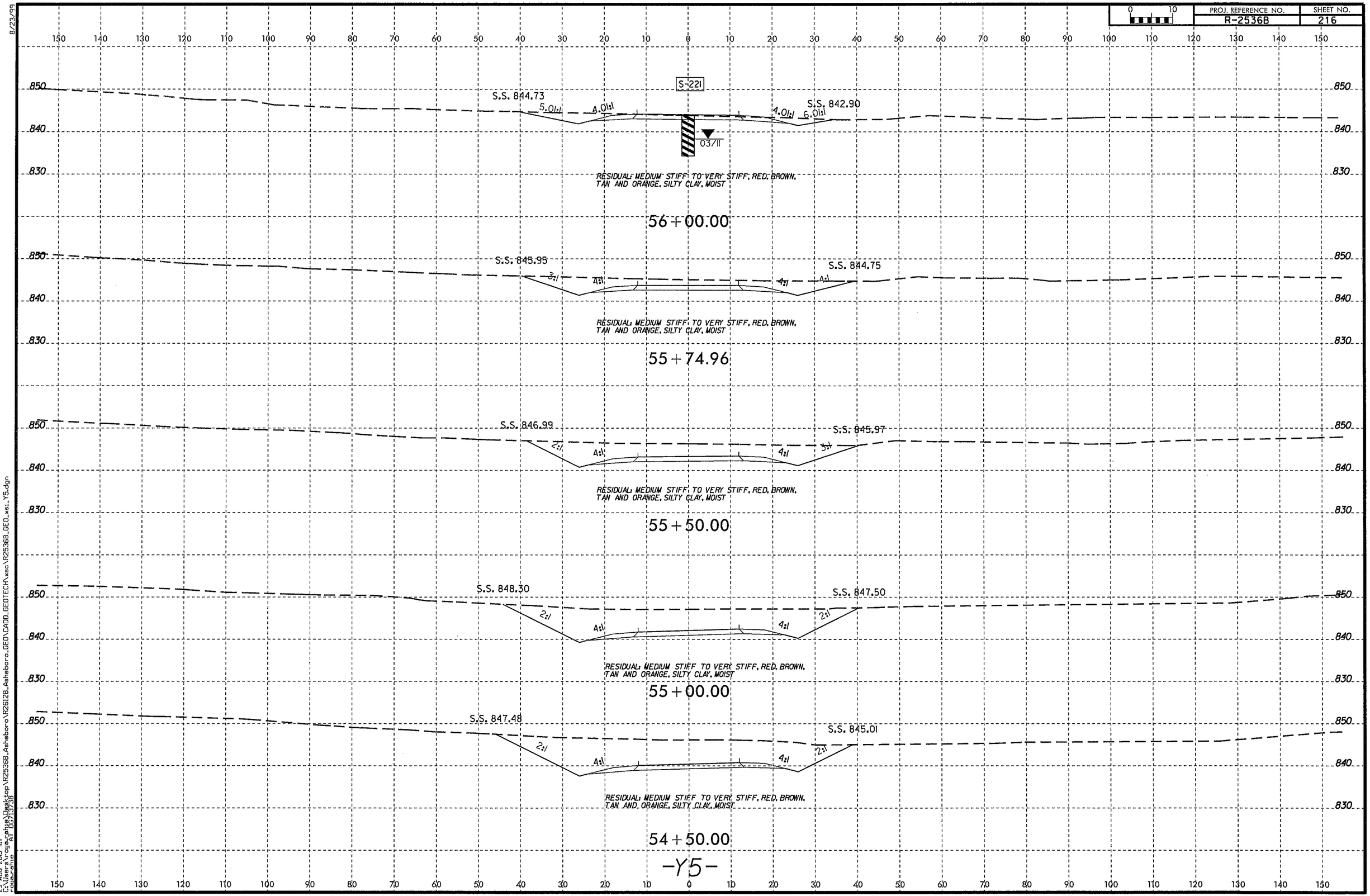
At 08/13/38



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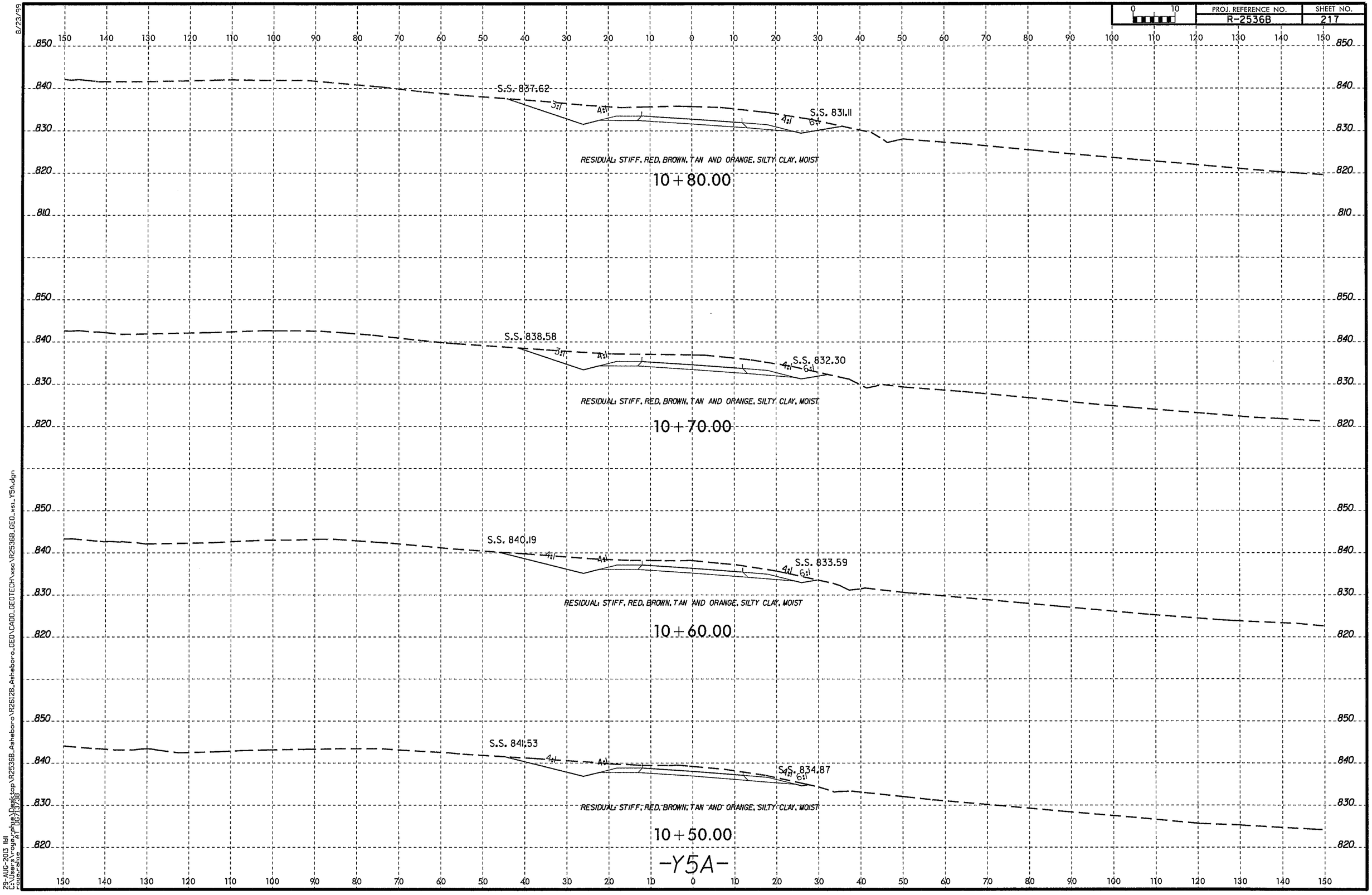

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PROJ. REFERENCE NO.	SHEET NO.
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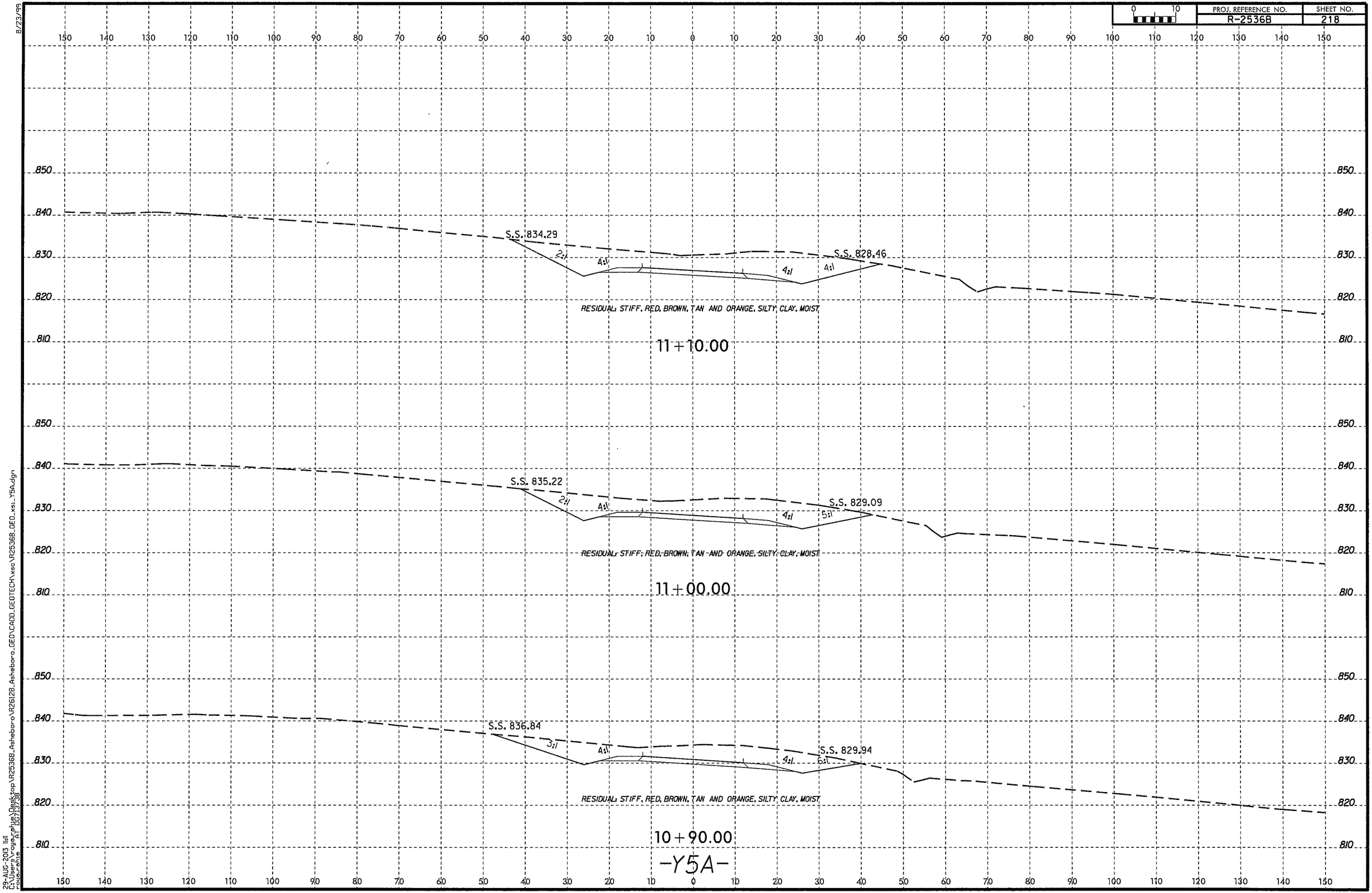

8/23/99

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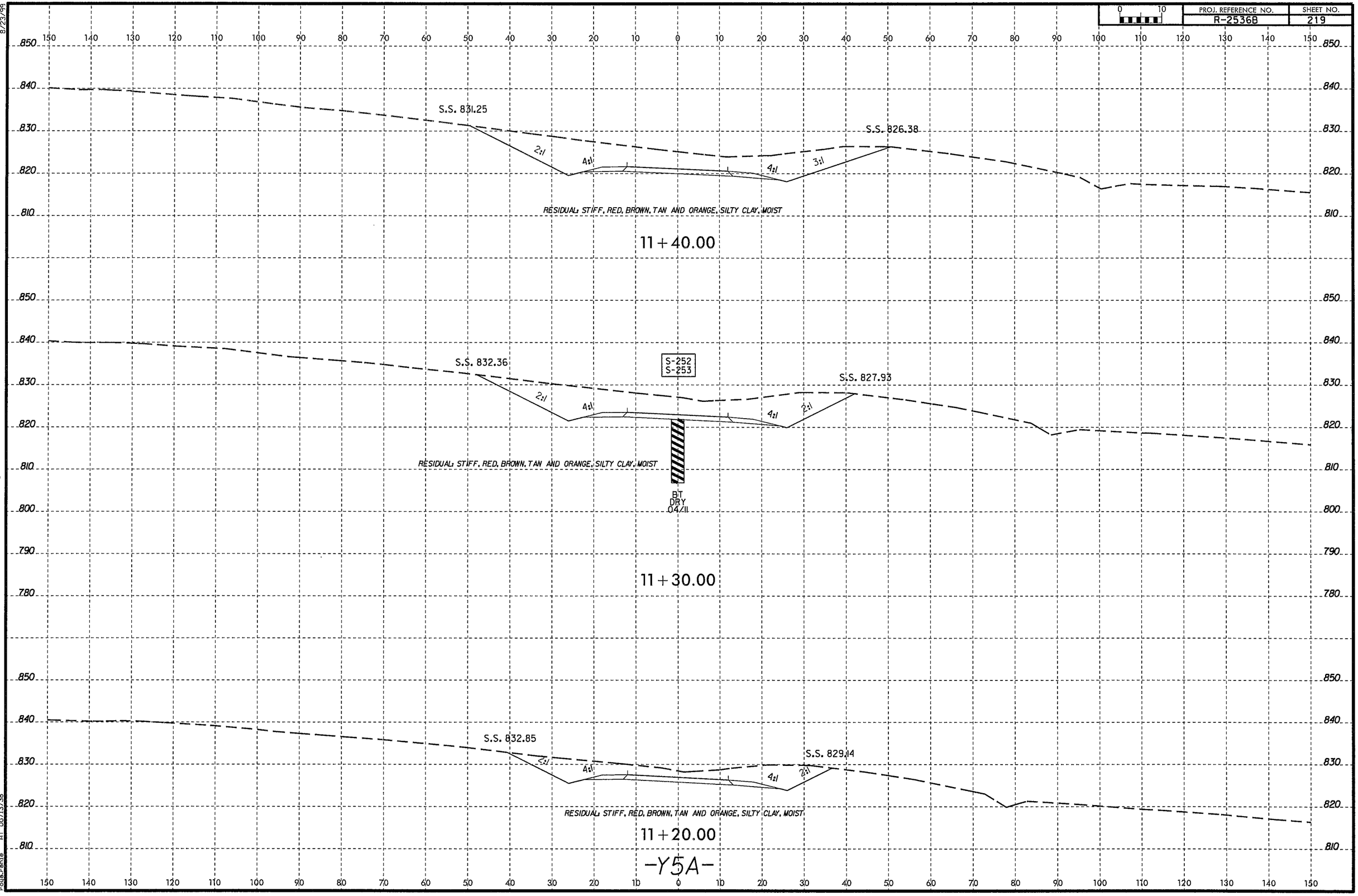

8/23/99

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8/23/99

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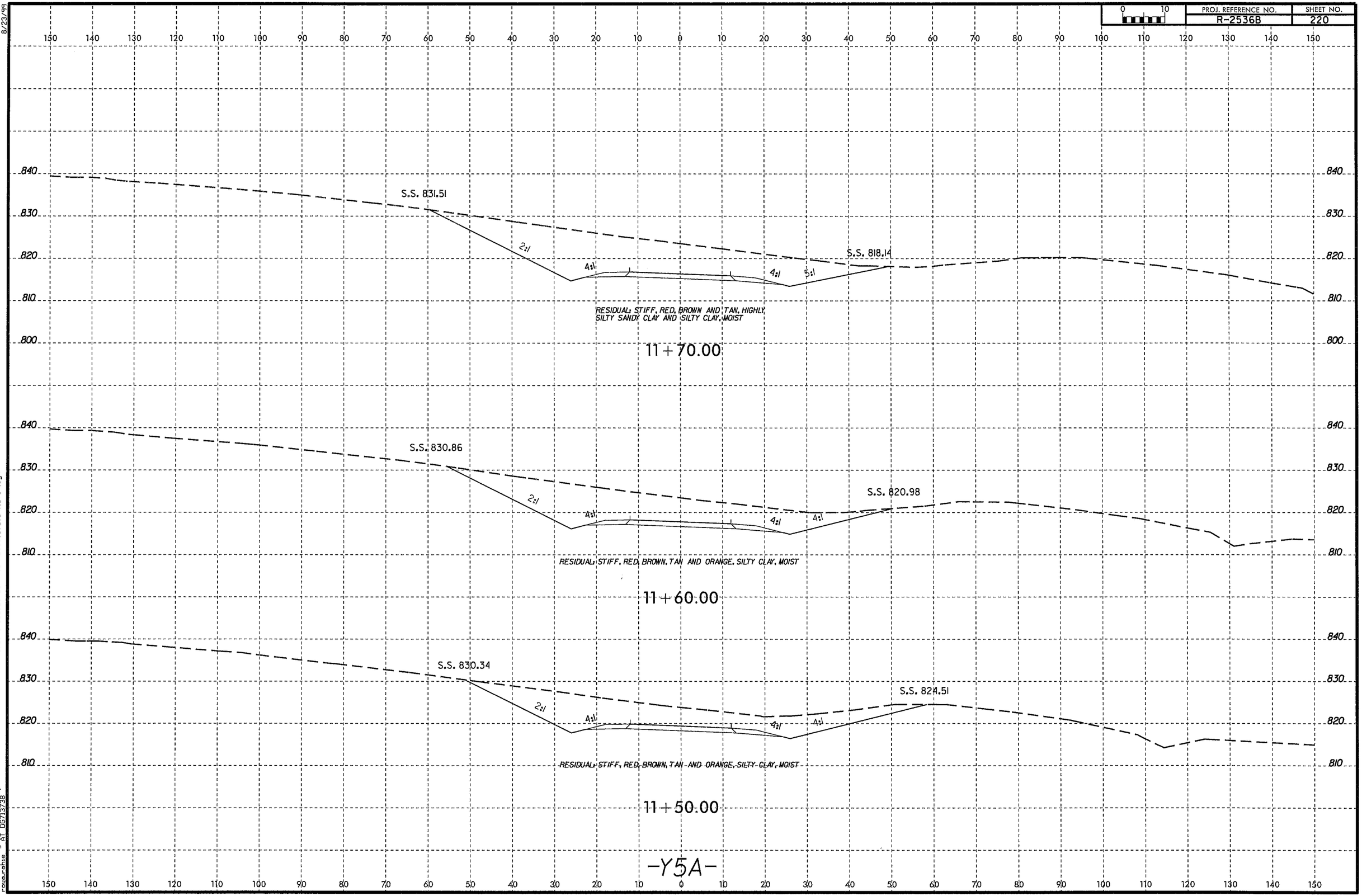
R-2536B	220



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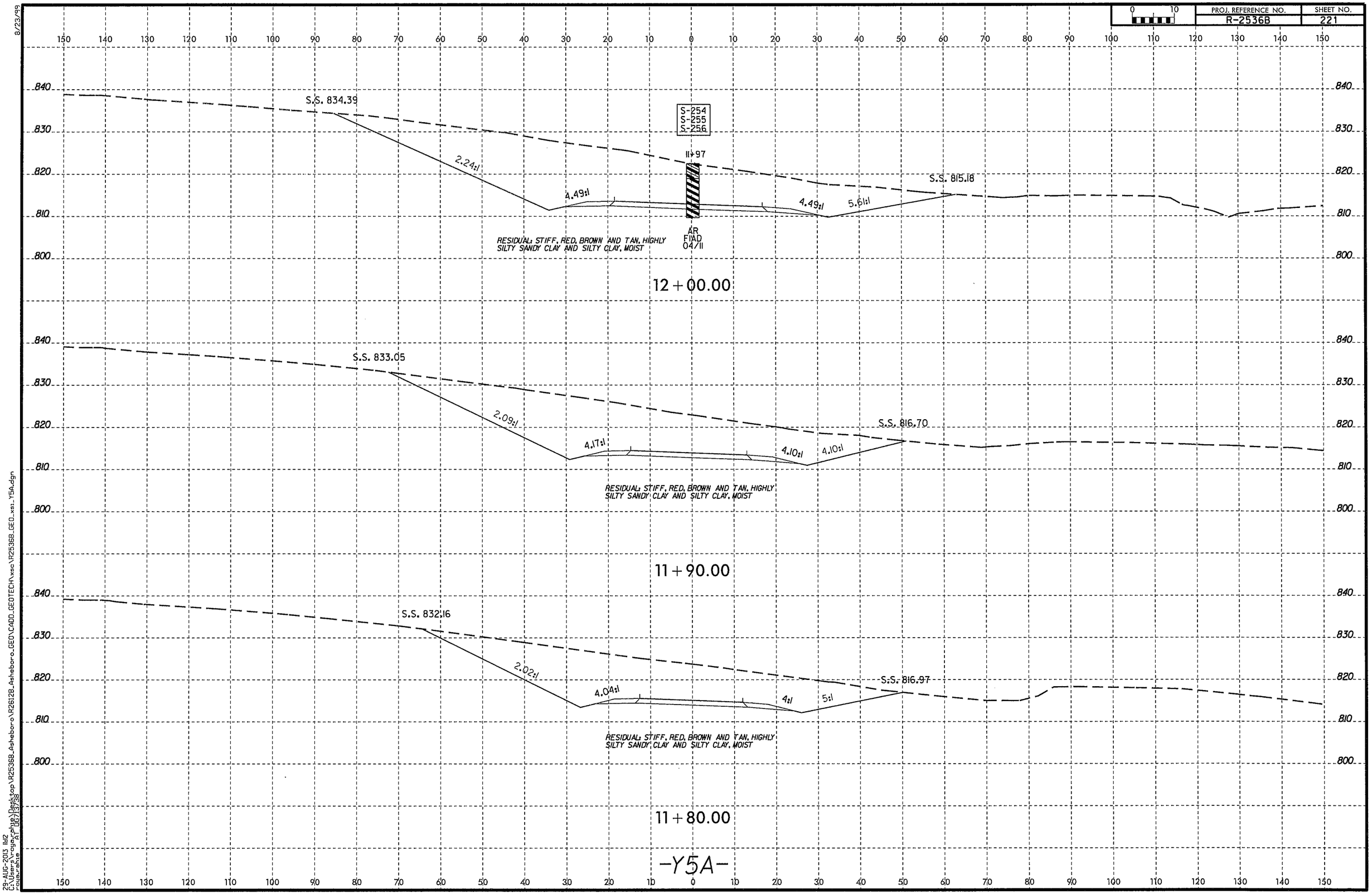
PROJ. REFERENCE NO.
R-2536B
SHEET NO.
221
S-254
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S-256
11+97
AR
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04/11
S.S. 834.39
2.24:1
4.49:1
4.49:1
5.61:1
S.S. 815.18
RESIDUAL: STIFF, RED, BROWN AND TAN, HIGHLY SILTY SANDY CLAY AND SILTY CLAY, MOIST
12+00.00
S.S. 833.05
2.09:1
4.17:1
4.10:1
4.10:1
S.S. 816.70
RESIDUAL: STIFF, RED, BROWN AND TAN, HIGHLY SILTY SANDY CLAY AND SILTY CLAY, MOIST
11+90.00
S.S. 832.16
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4.04:1
4:1
5:1
S.S. 816.97
RESIDUAL: STIFF, RED, BROWN AND TAN, HIGHLY SILTY SANDY CLAY AND SILTY CLAY, MOIST
11+80.00
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8/23/99
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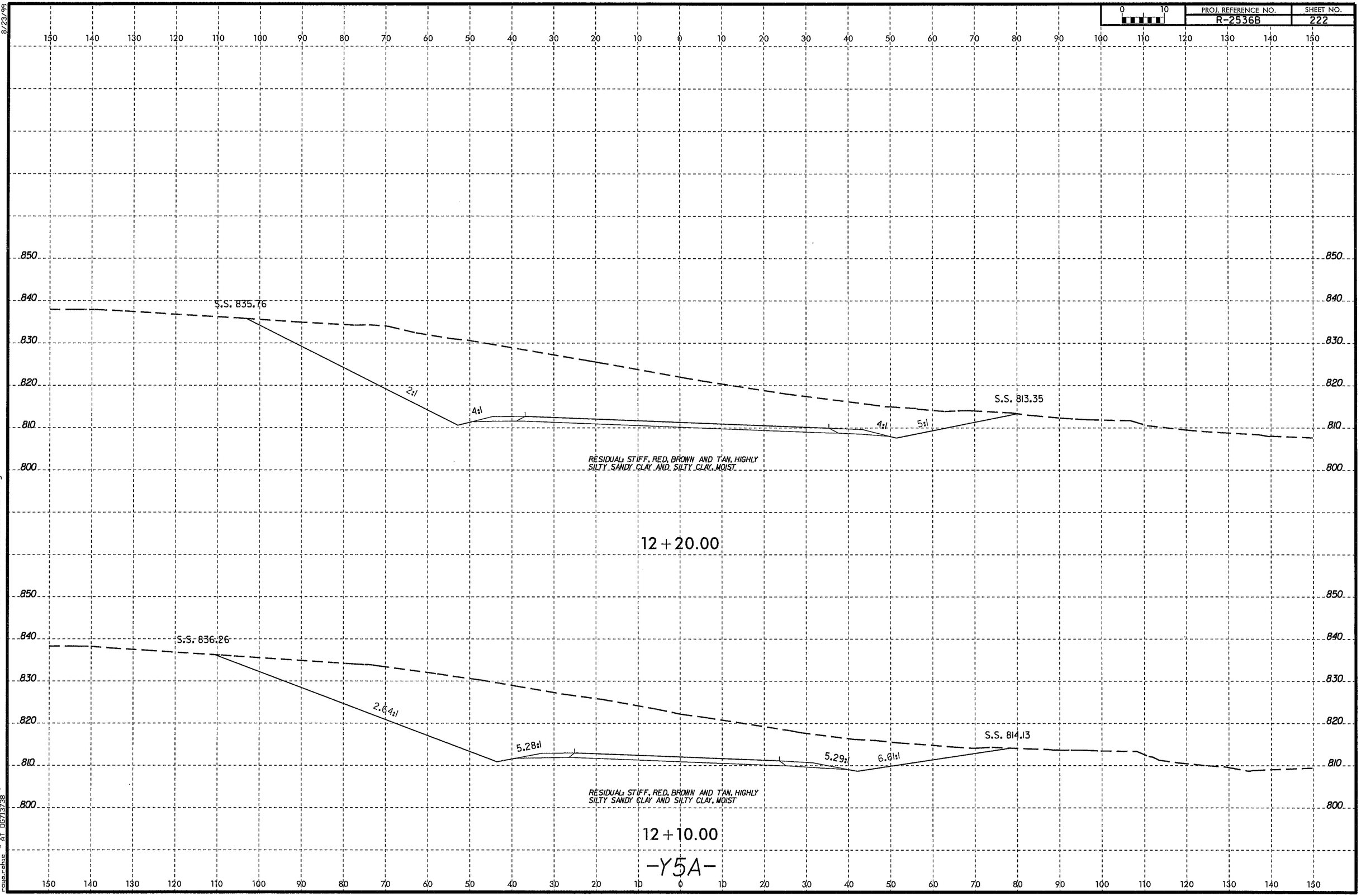

8/23/99
29-AUG-2013 11:12
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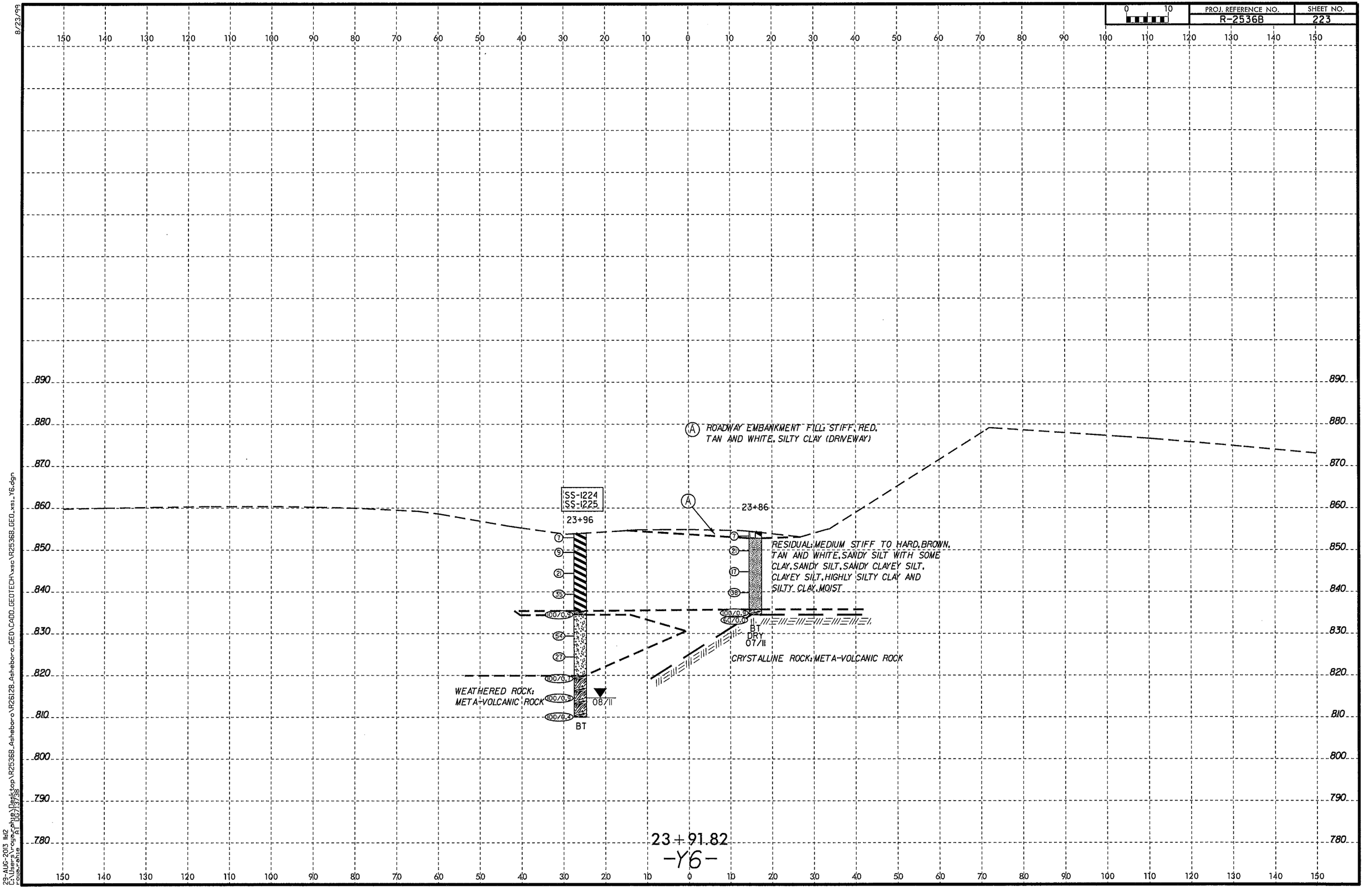

8/23/99

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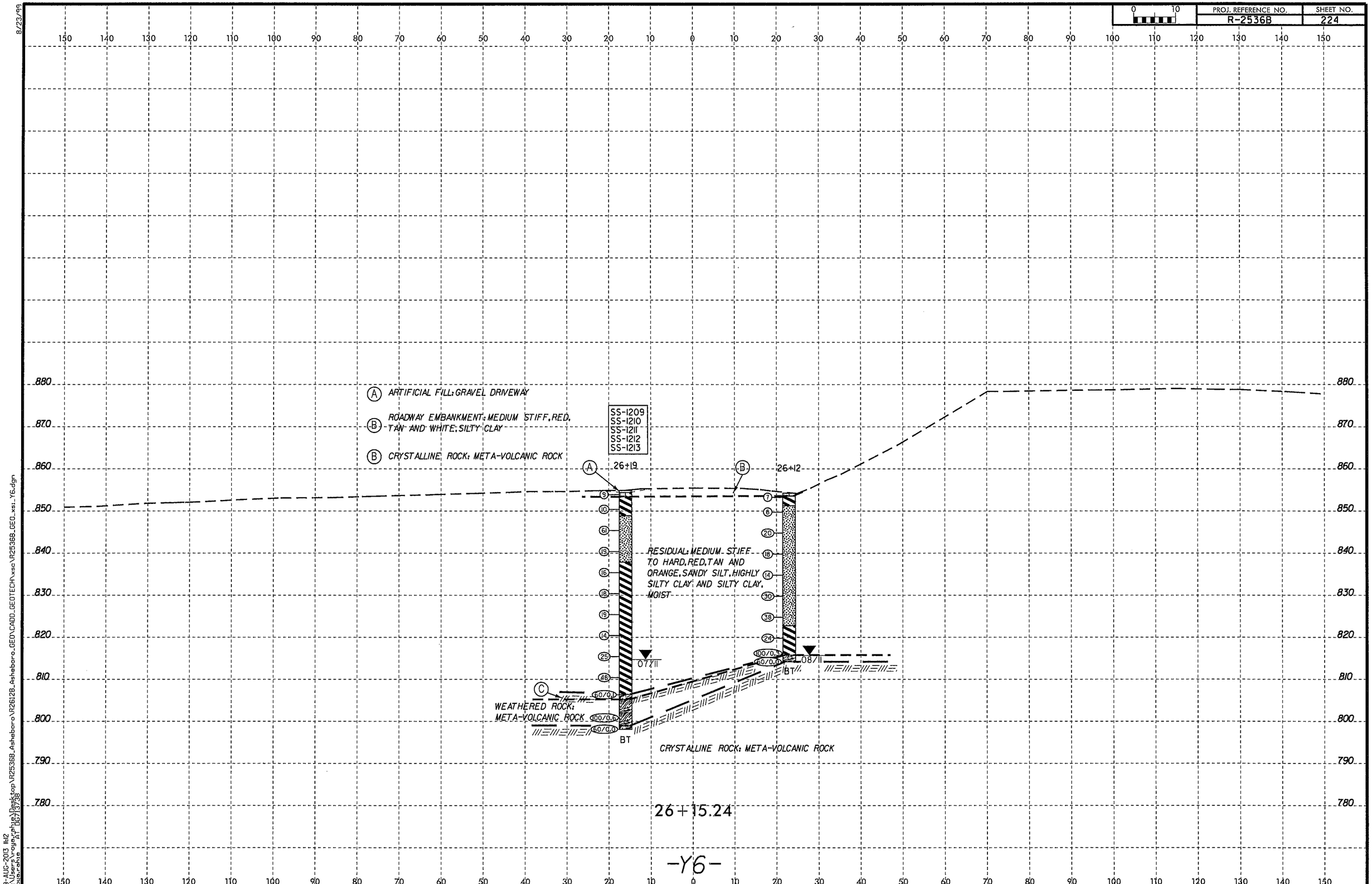
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	224



8/23/99

29-AUG-2013 11:12
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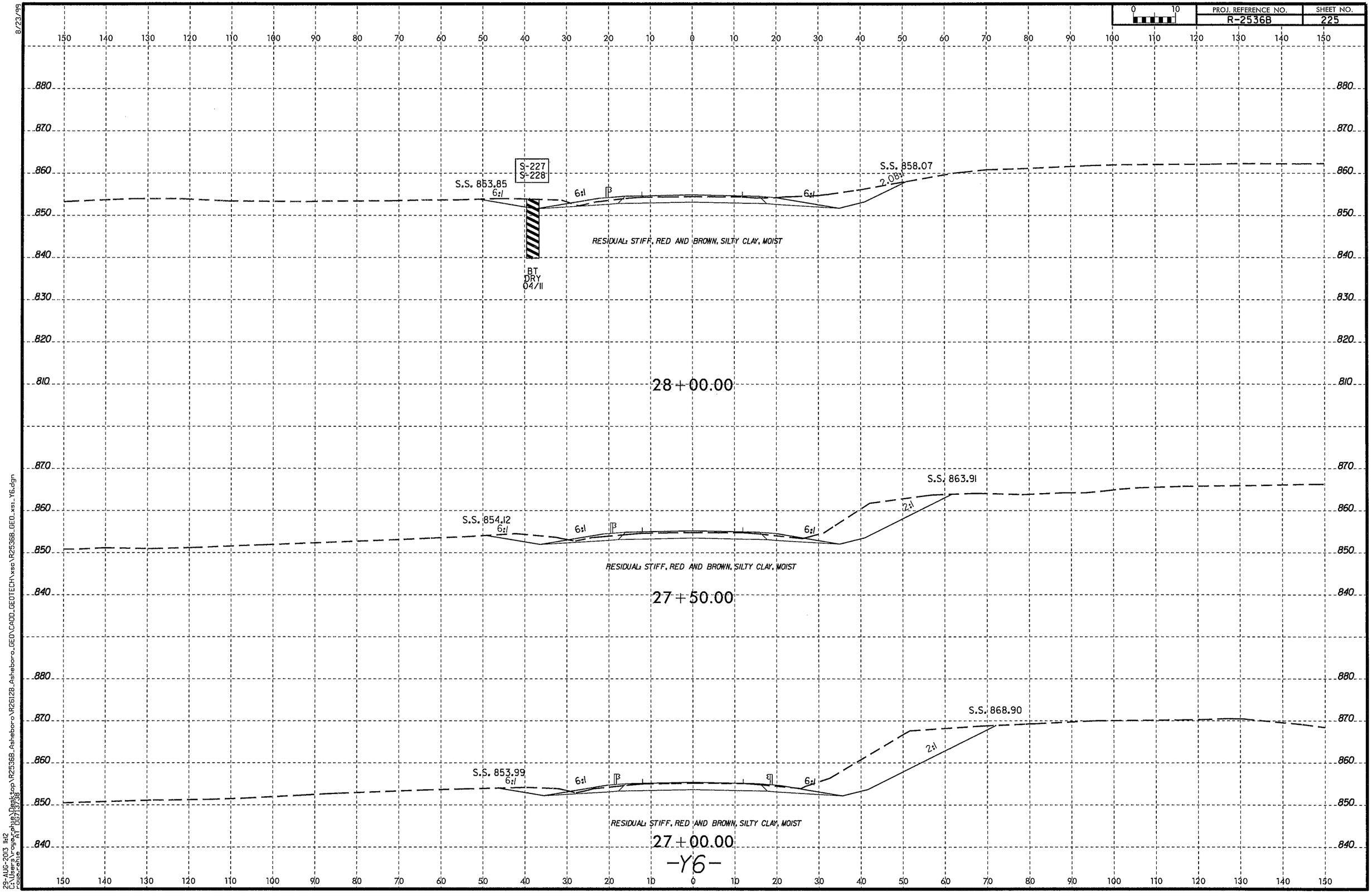

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8/23/99

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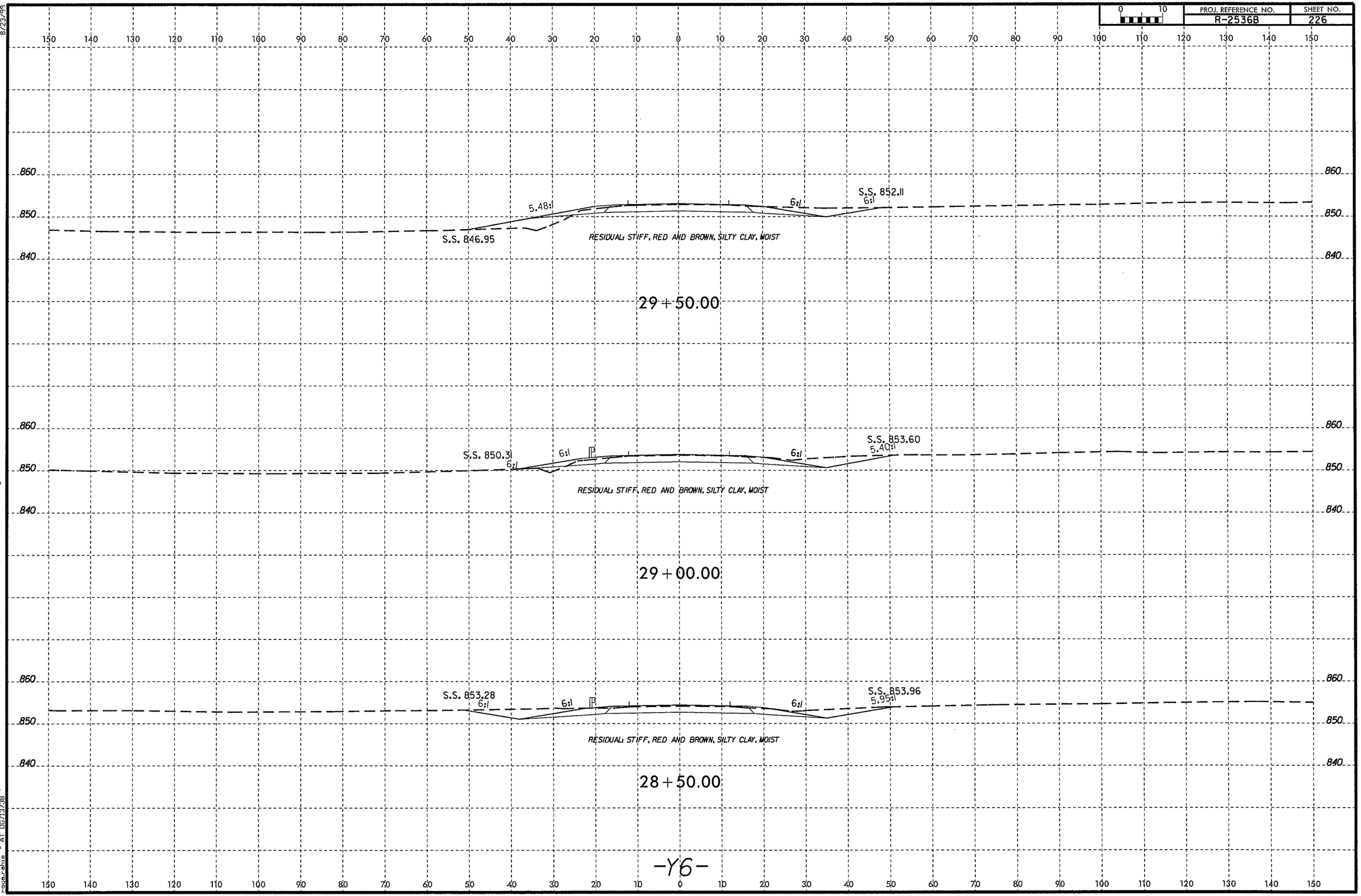

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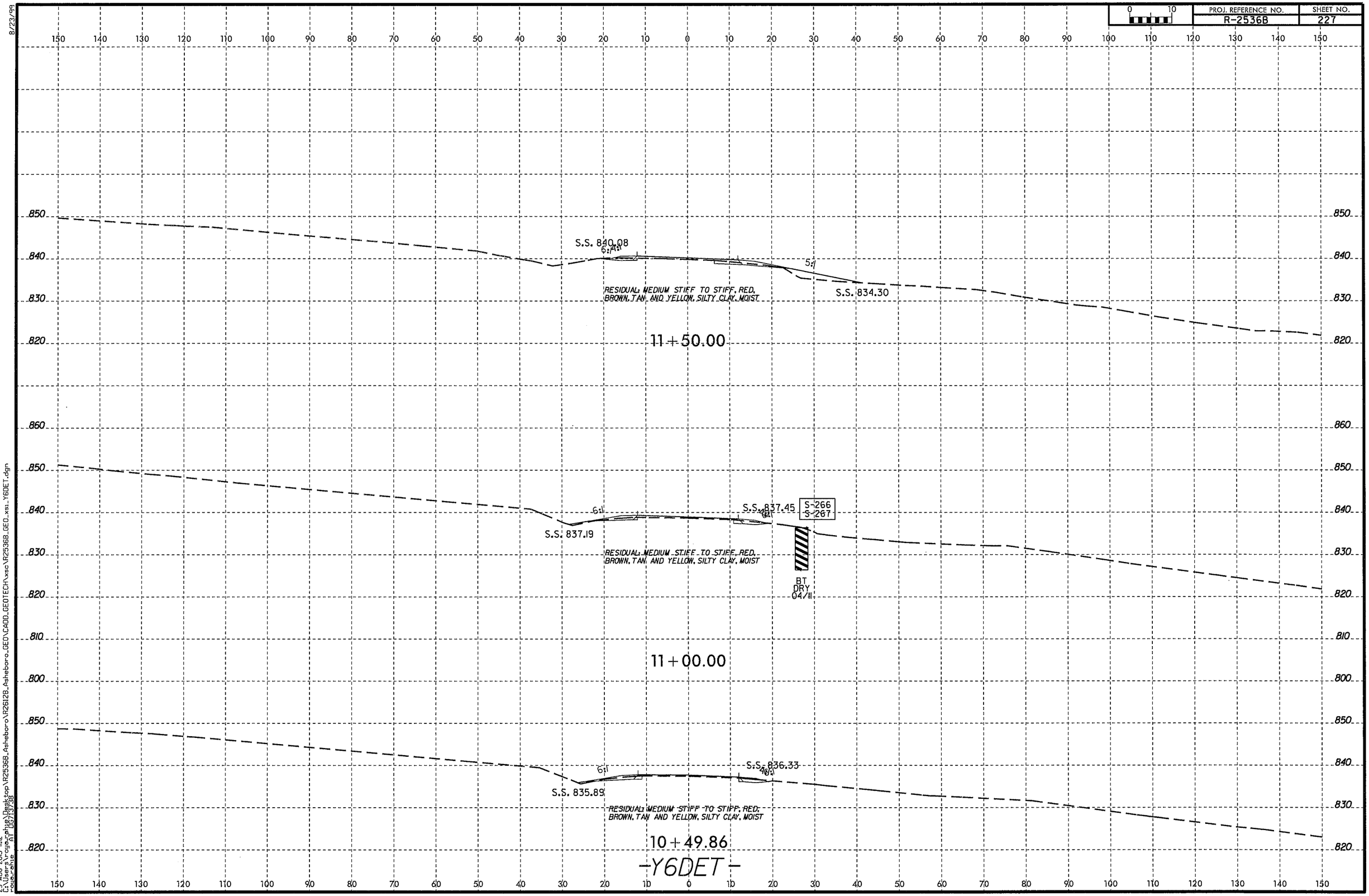

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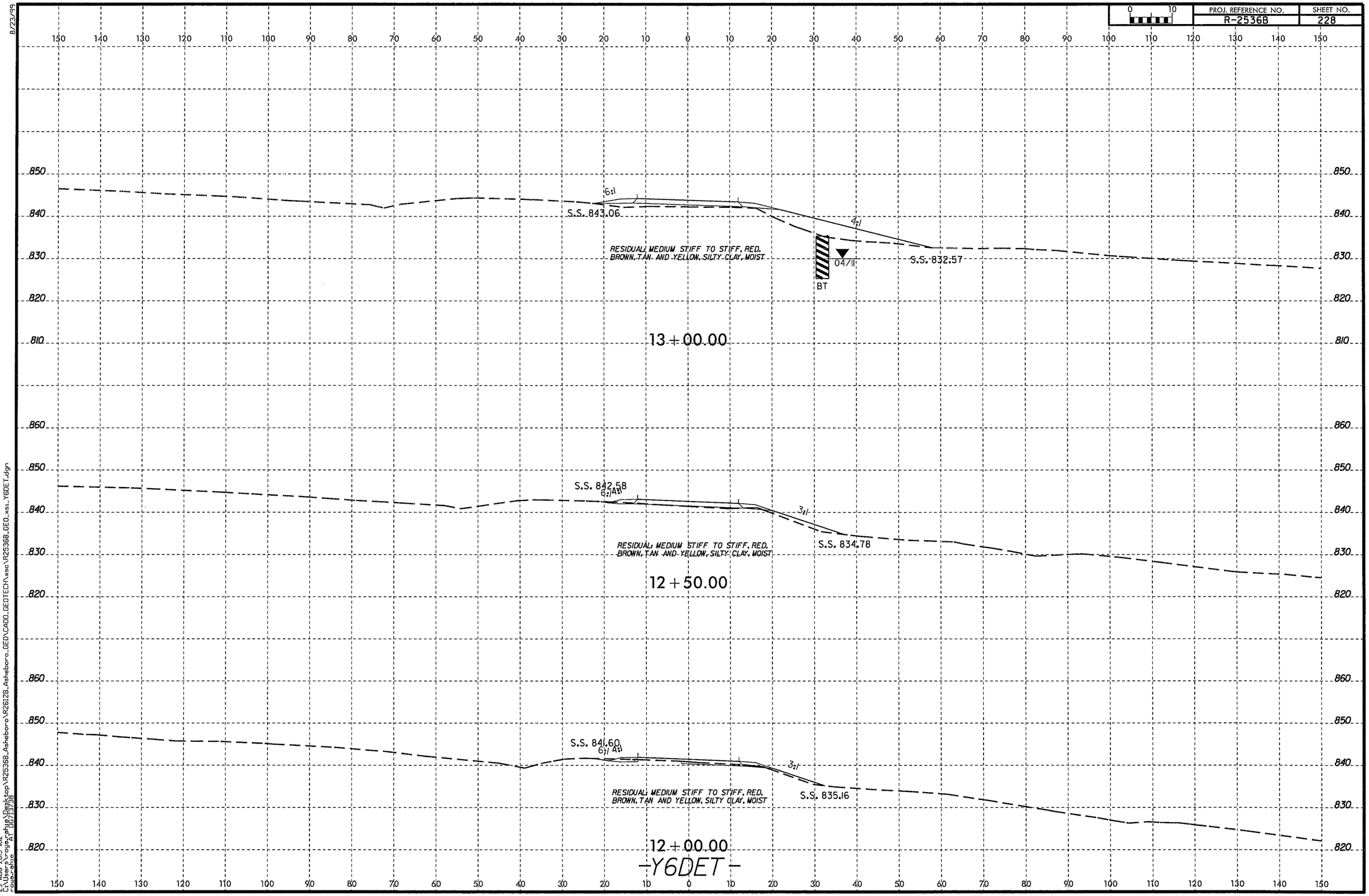
AT 0.97/13.58

8/23/99



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29-AUG-2013 11:12
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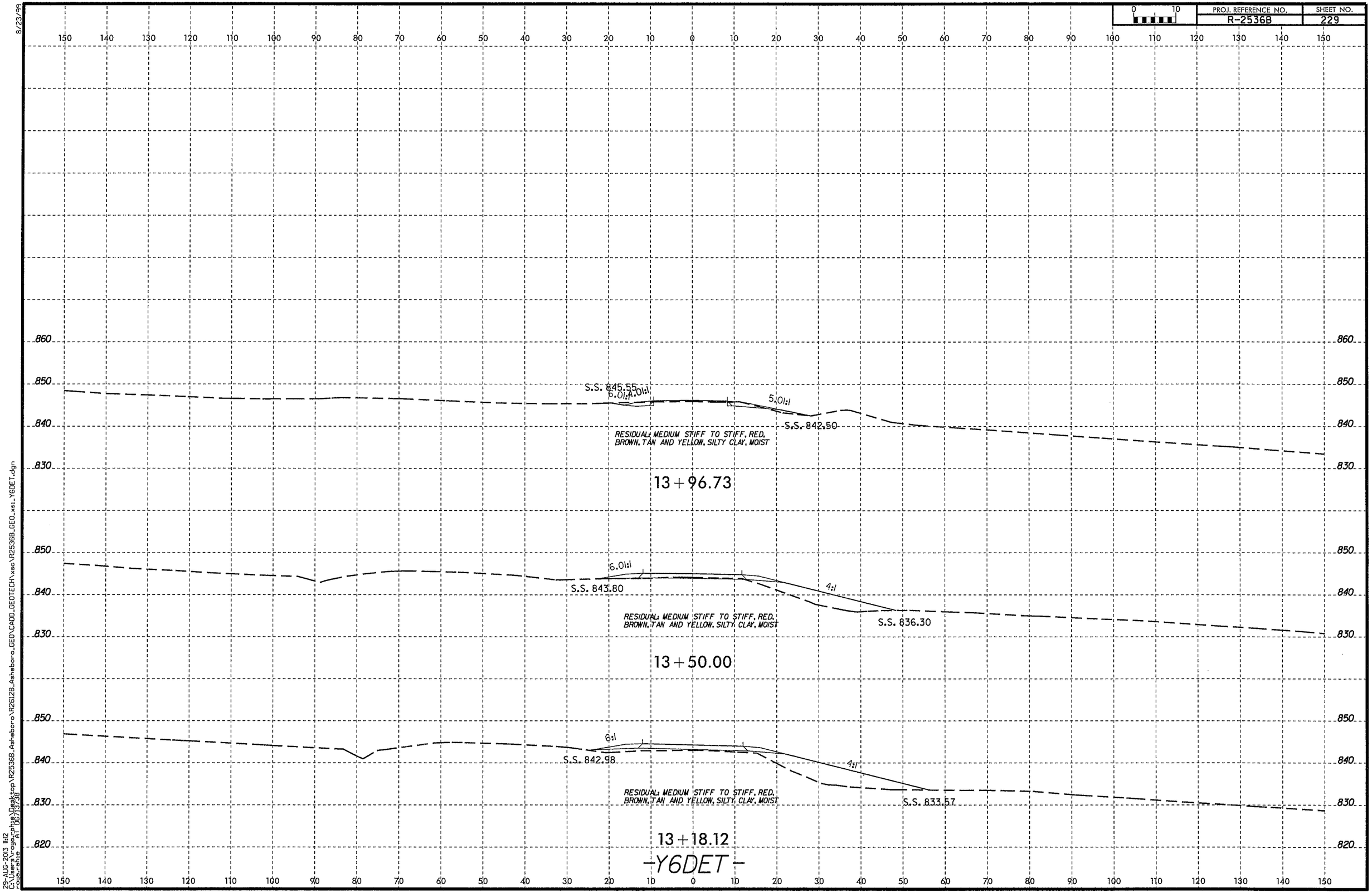
A1 D97/13/38



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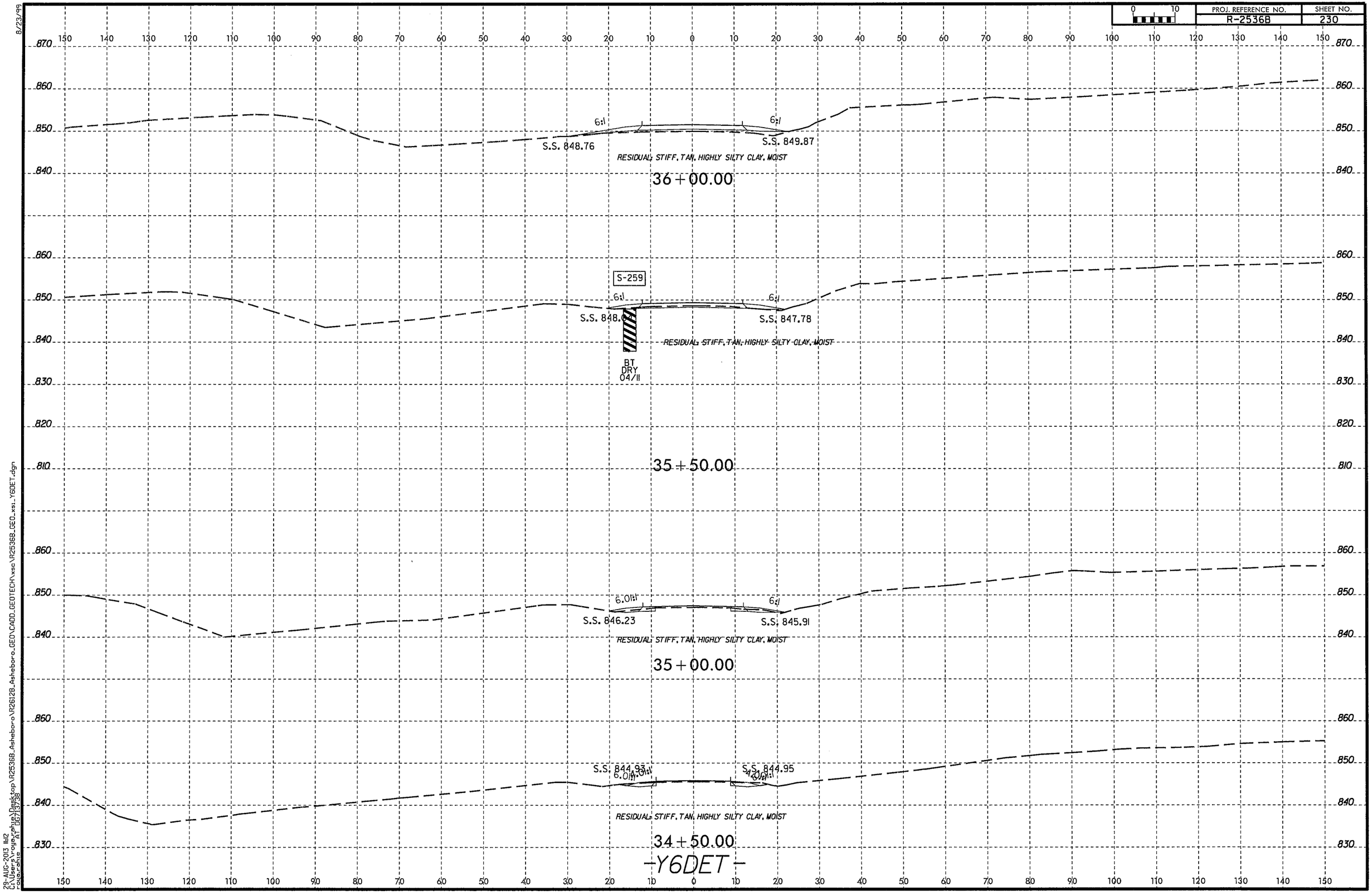
A1 D6/13/38

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	230



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29-AUG-2013 11:12
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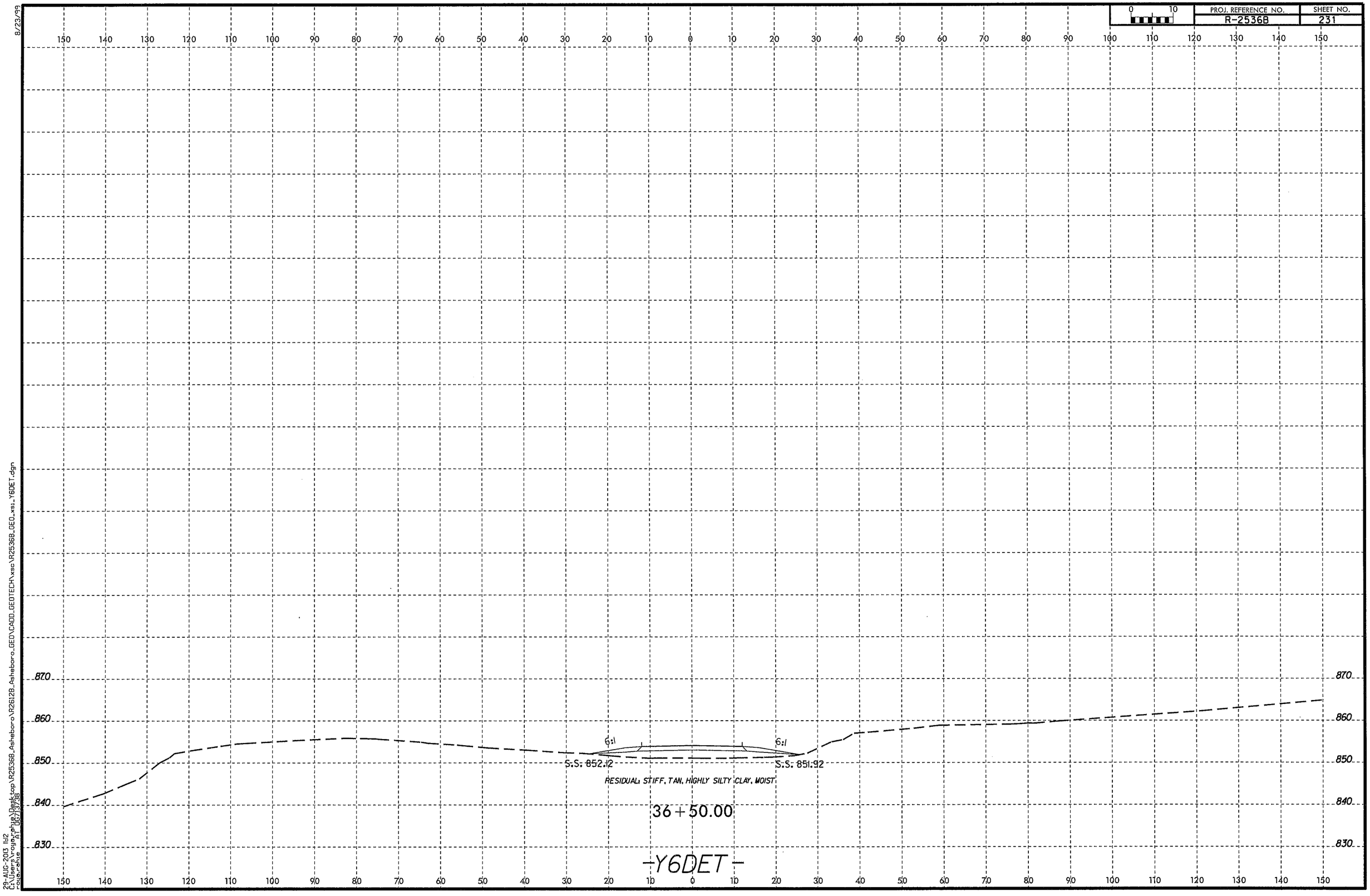

8/23/99

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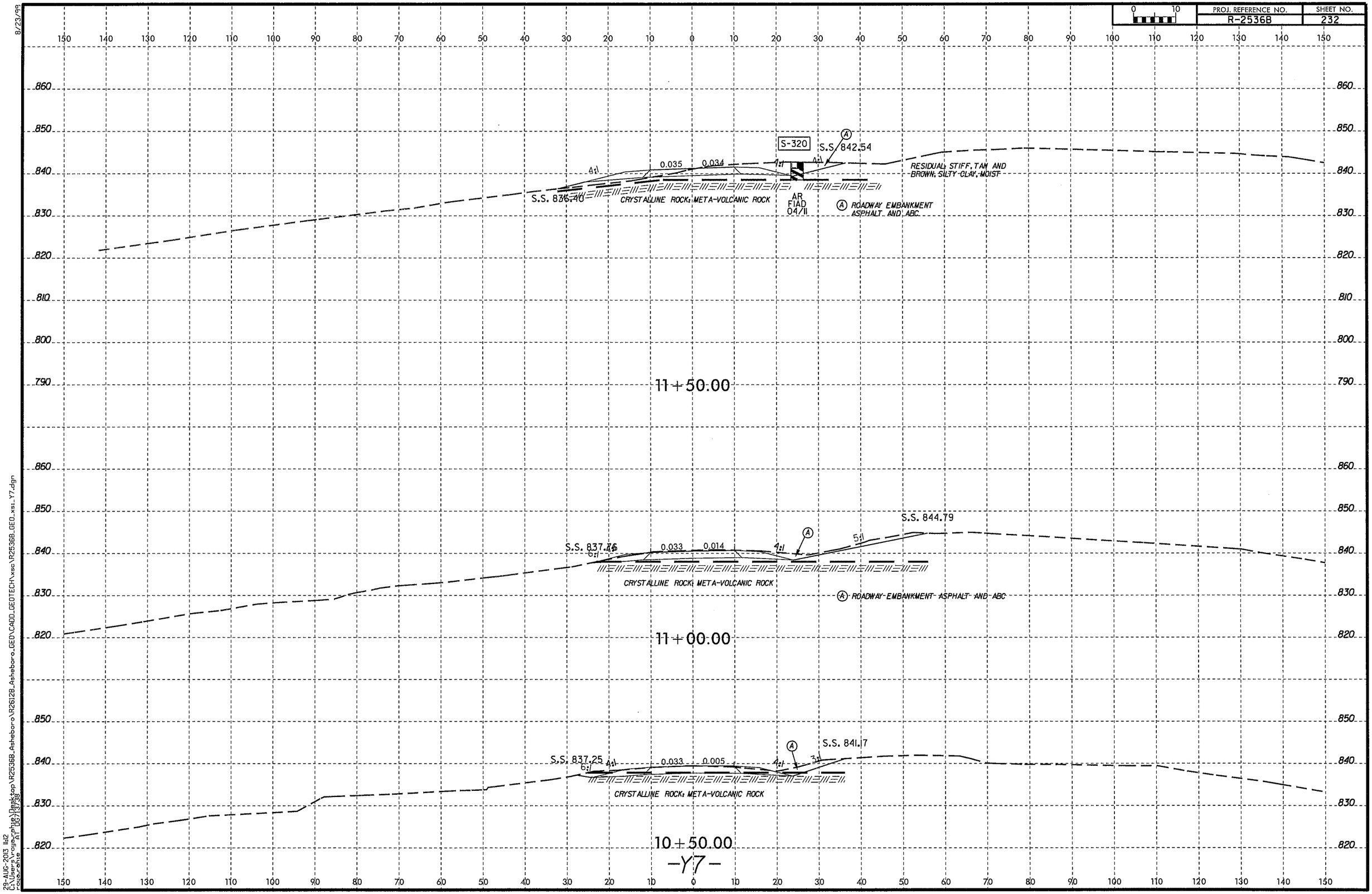

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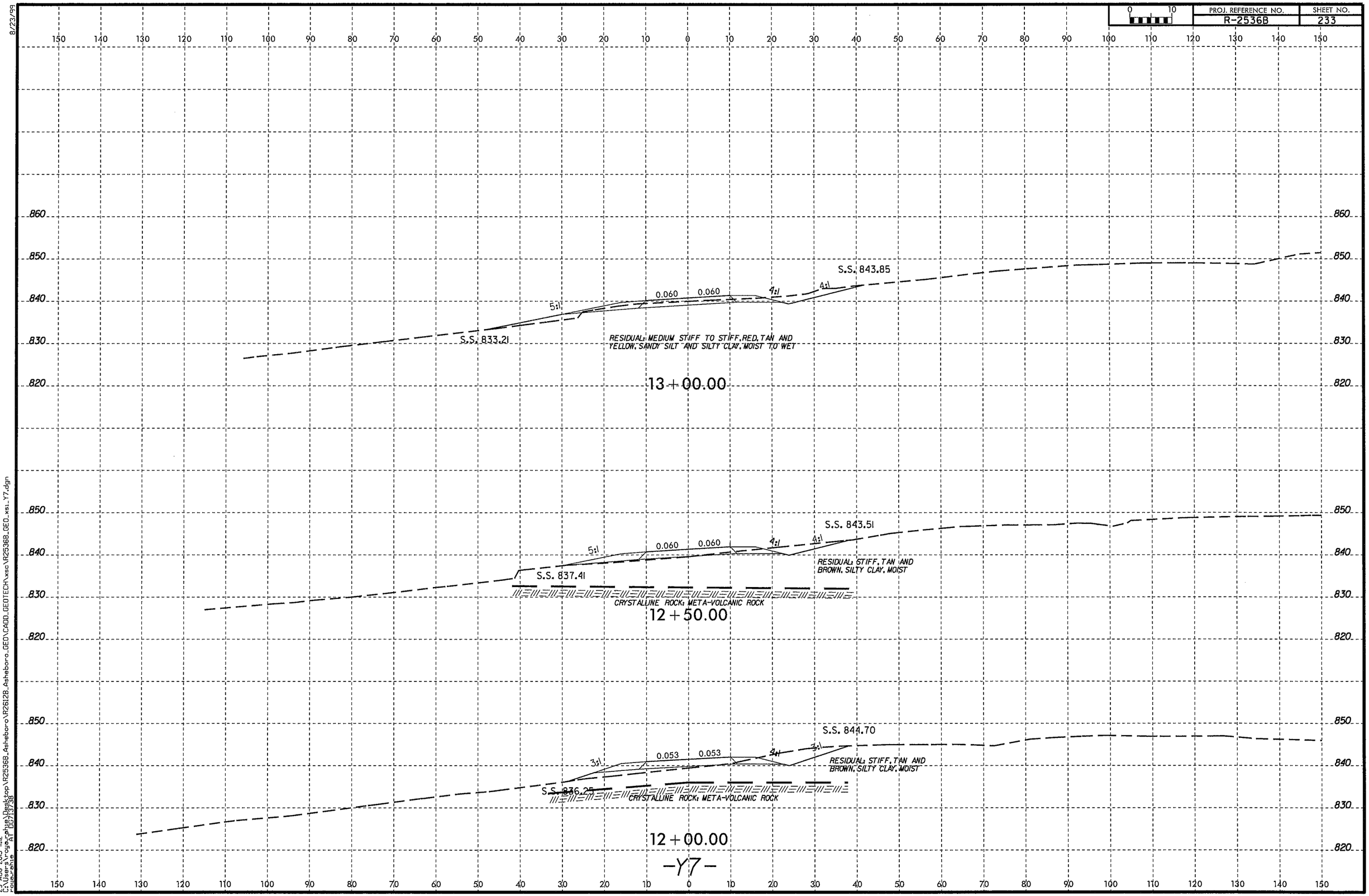
AT 100/13/39



8/23/99

29-AUG-2013 11:12
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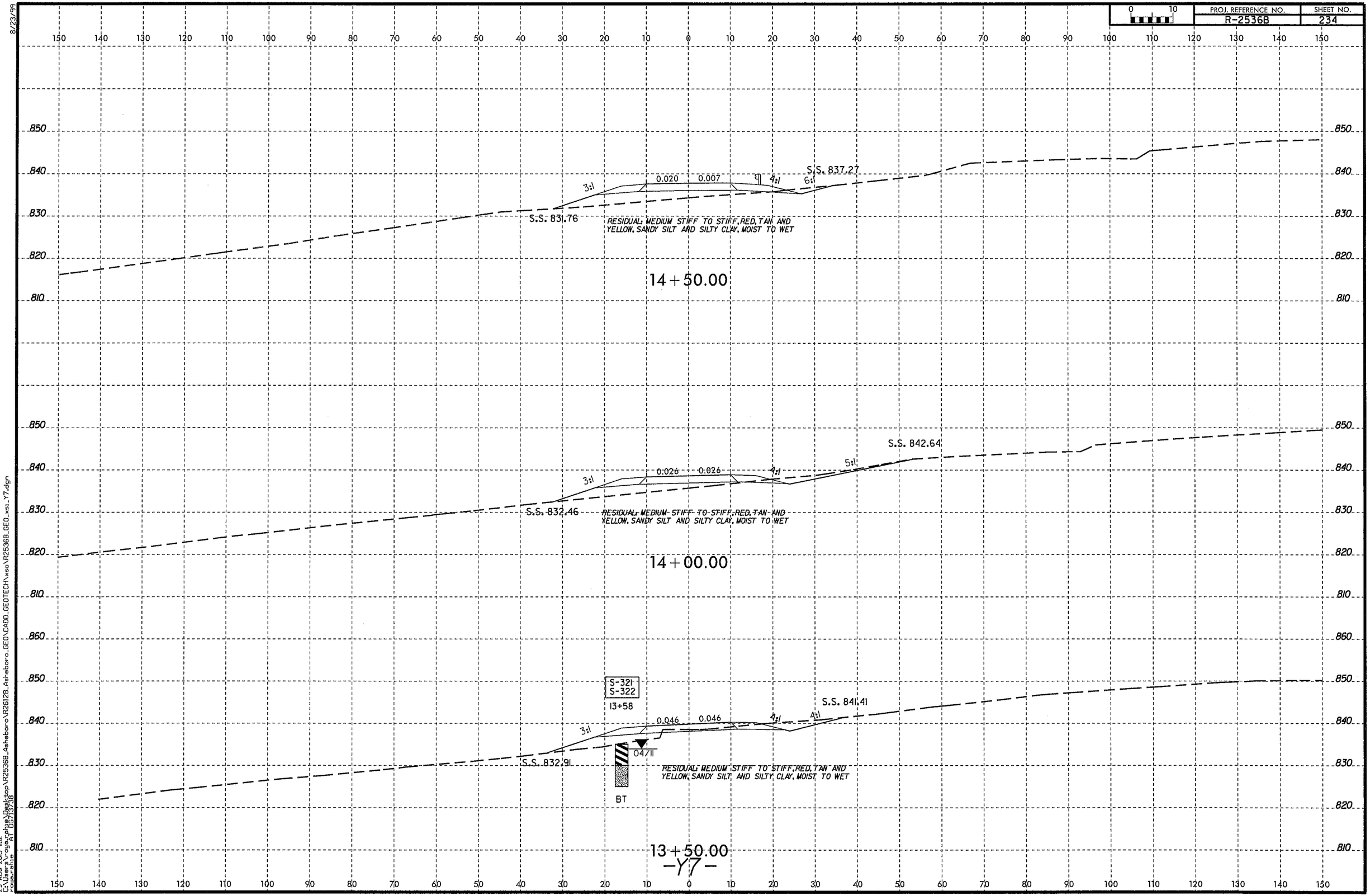
rogerphe AT DOT13738



8/23/99

29-AUG-2013 11:12
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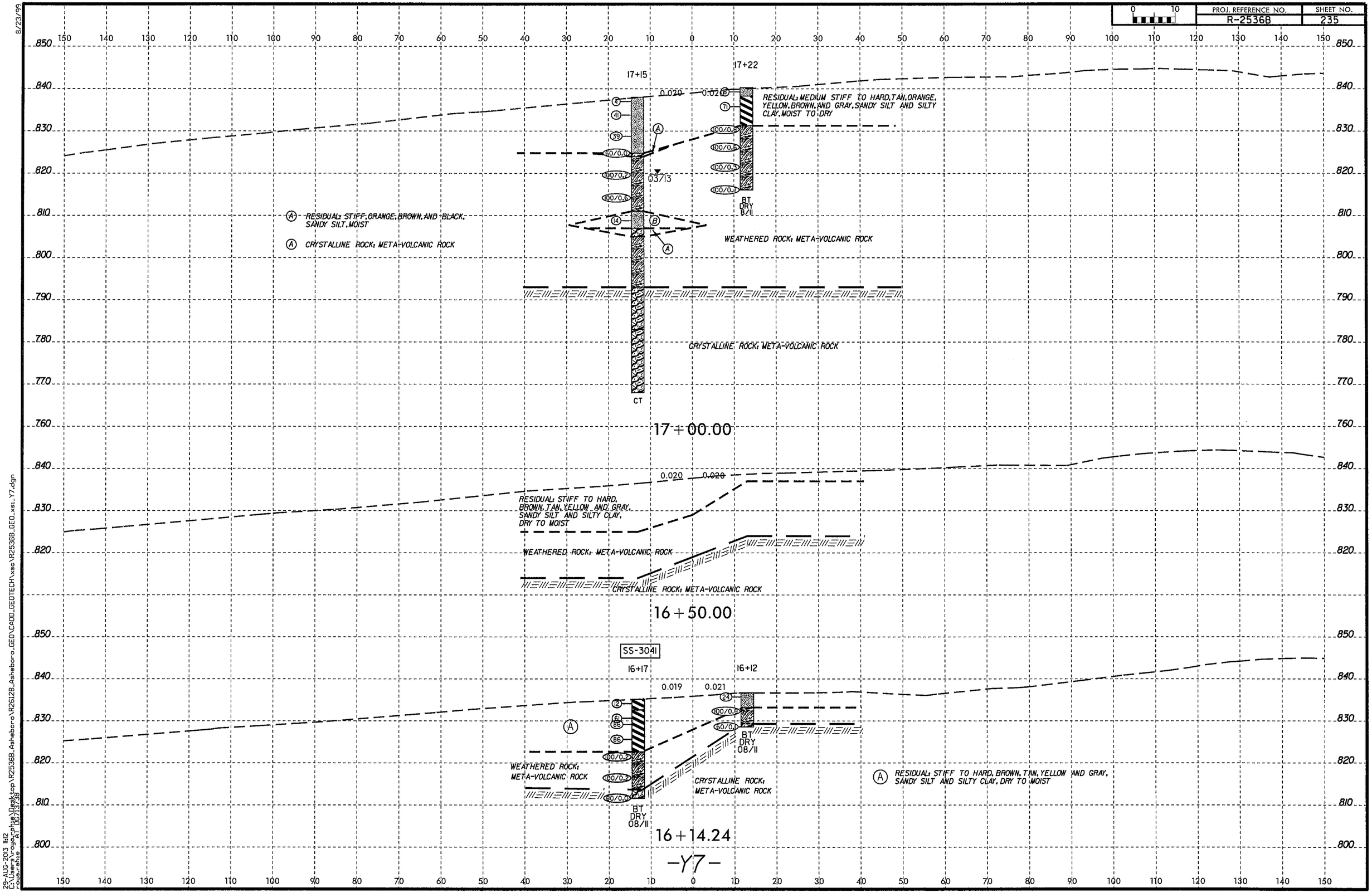
rogerphie AT DB7137/38



8/23/99

29-AUG-2013 18:12
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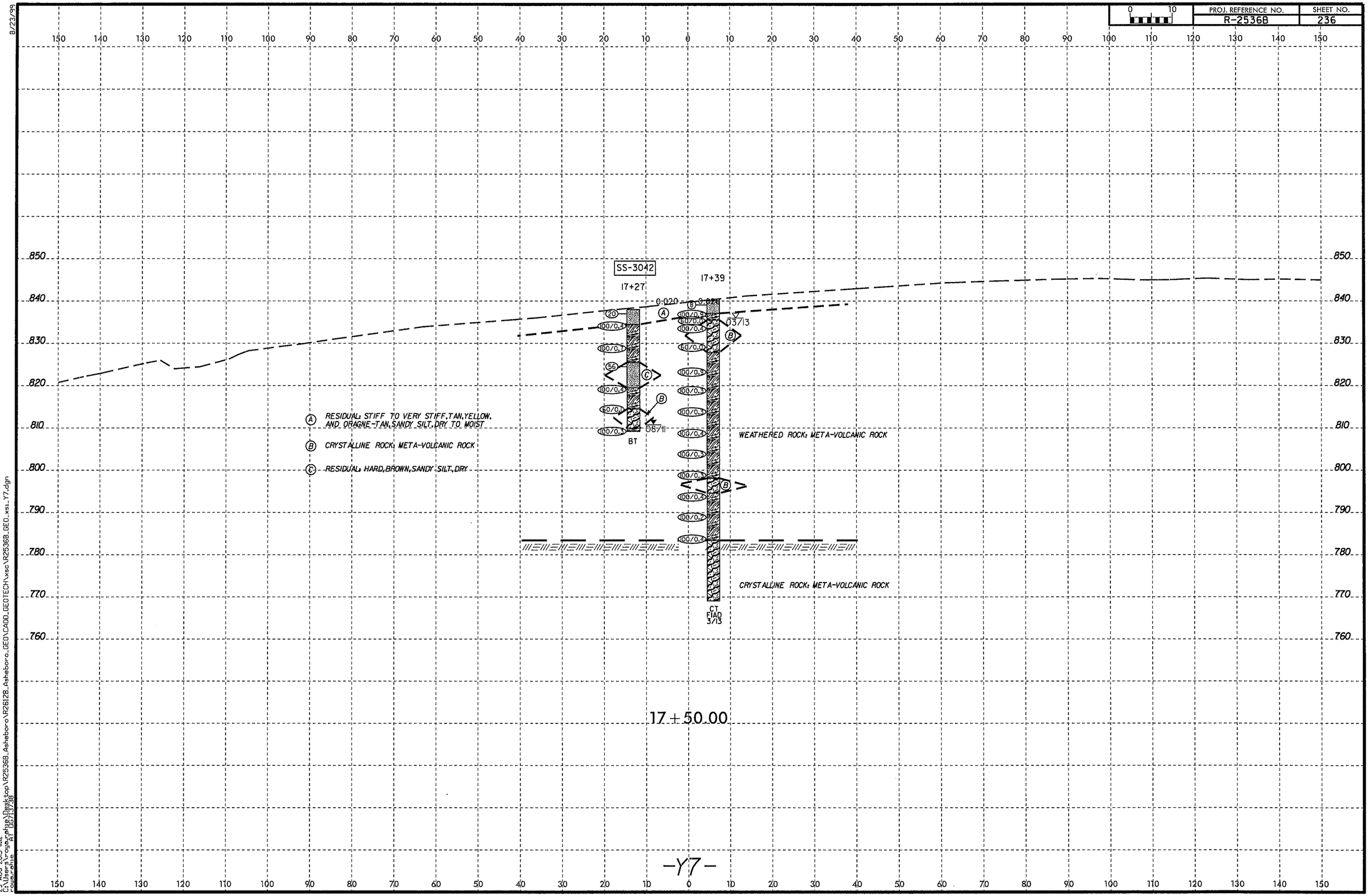
roya.rahe
AT 105/13738



8/23/99
29-AUG-2013 11:12
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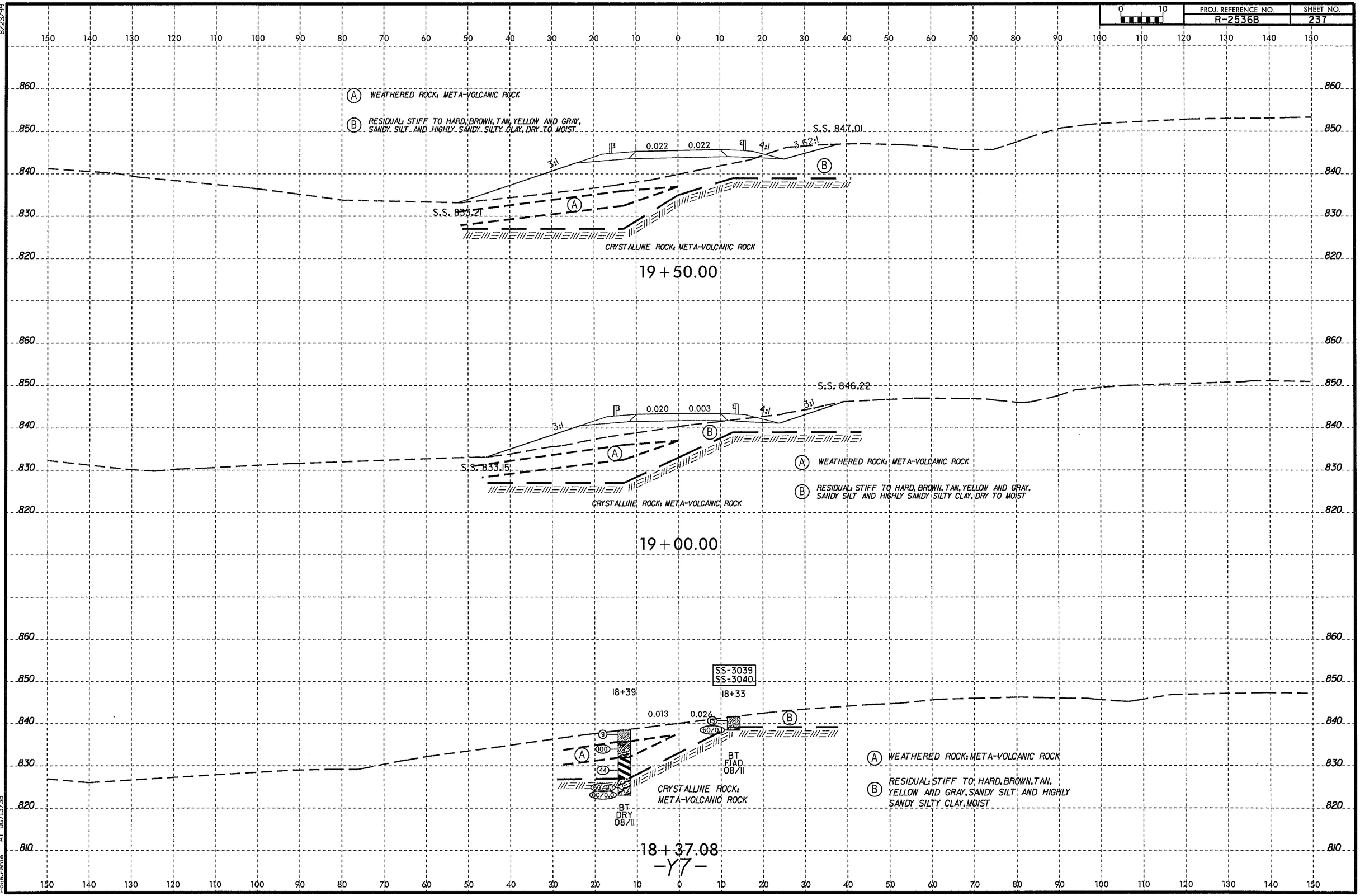
rouganche AT 105/13/38

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	237



8/23/99

29-AUG-2013 11:12
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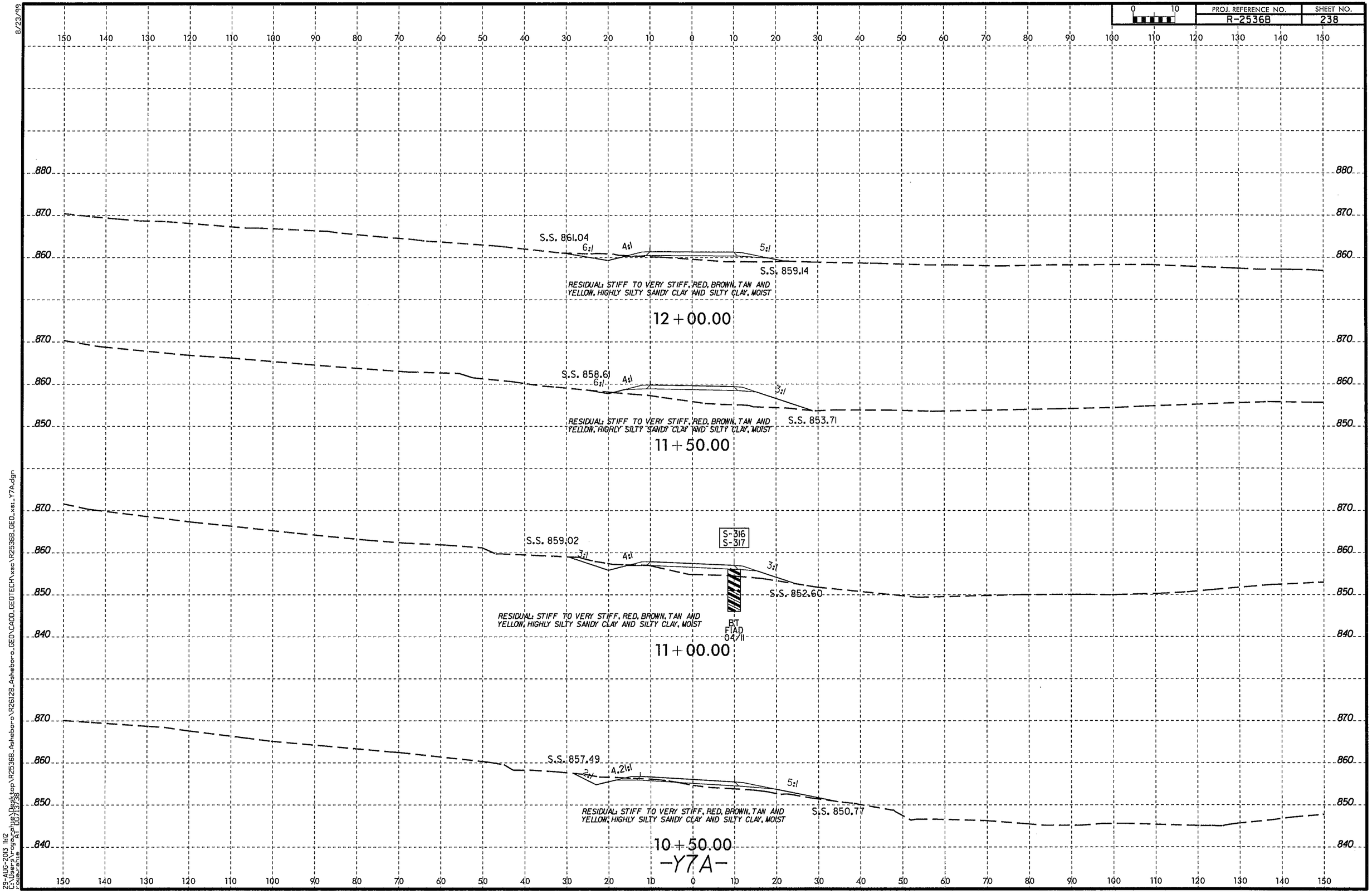
royce.phipe
AT 1067/3/28



8/23/99
23-AUG-2013 11:12
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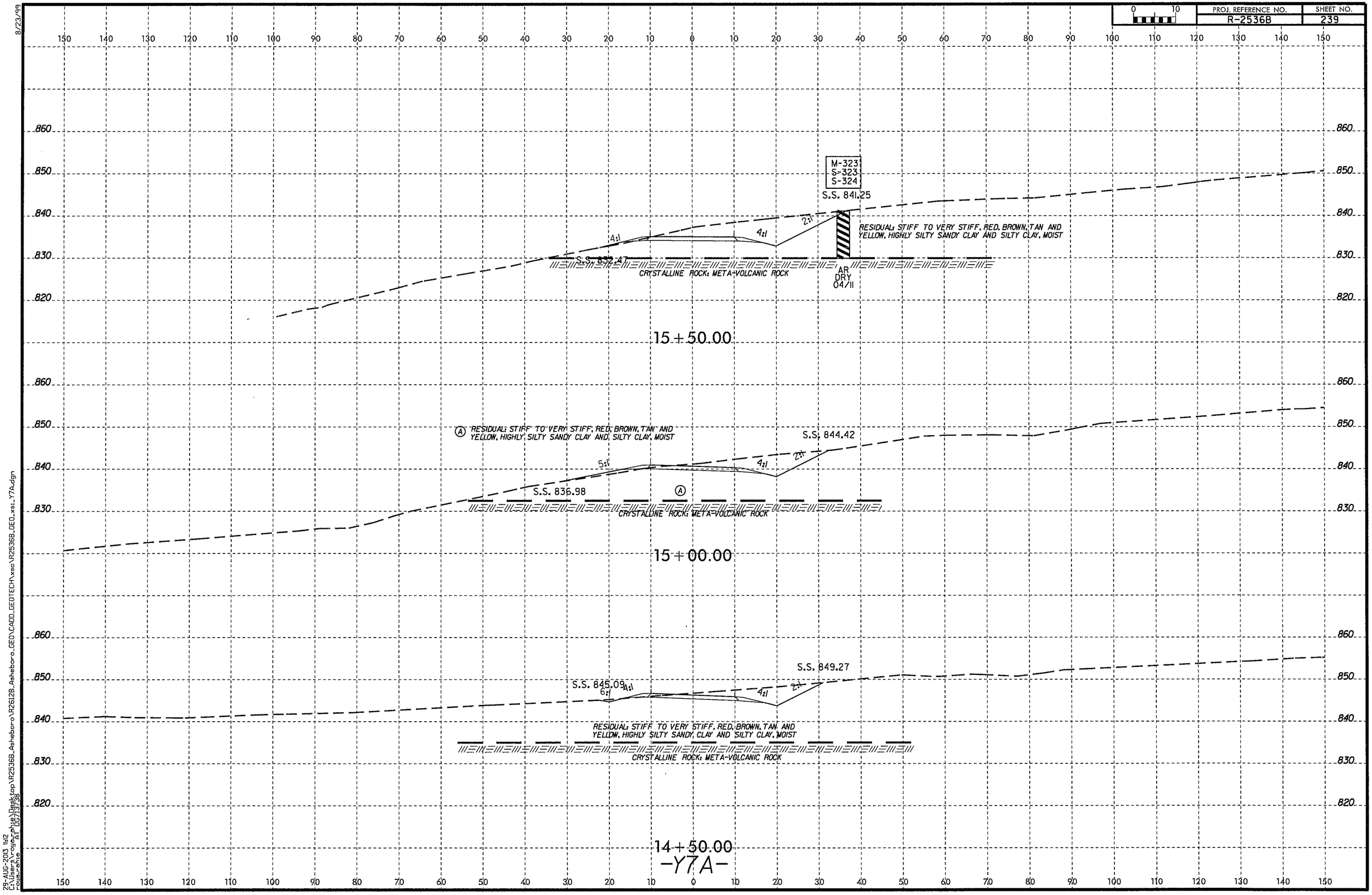
pw:\\pwdata\pwdata1\projects\R2536B_Asheboro\R26128_Asheboro_GEO\CADD_GEOTECH\xsc\R2536B_GEO_xsi_Y7A.dgn
ai: 05/13/99



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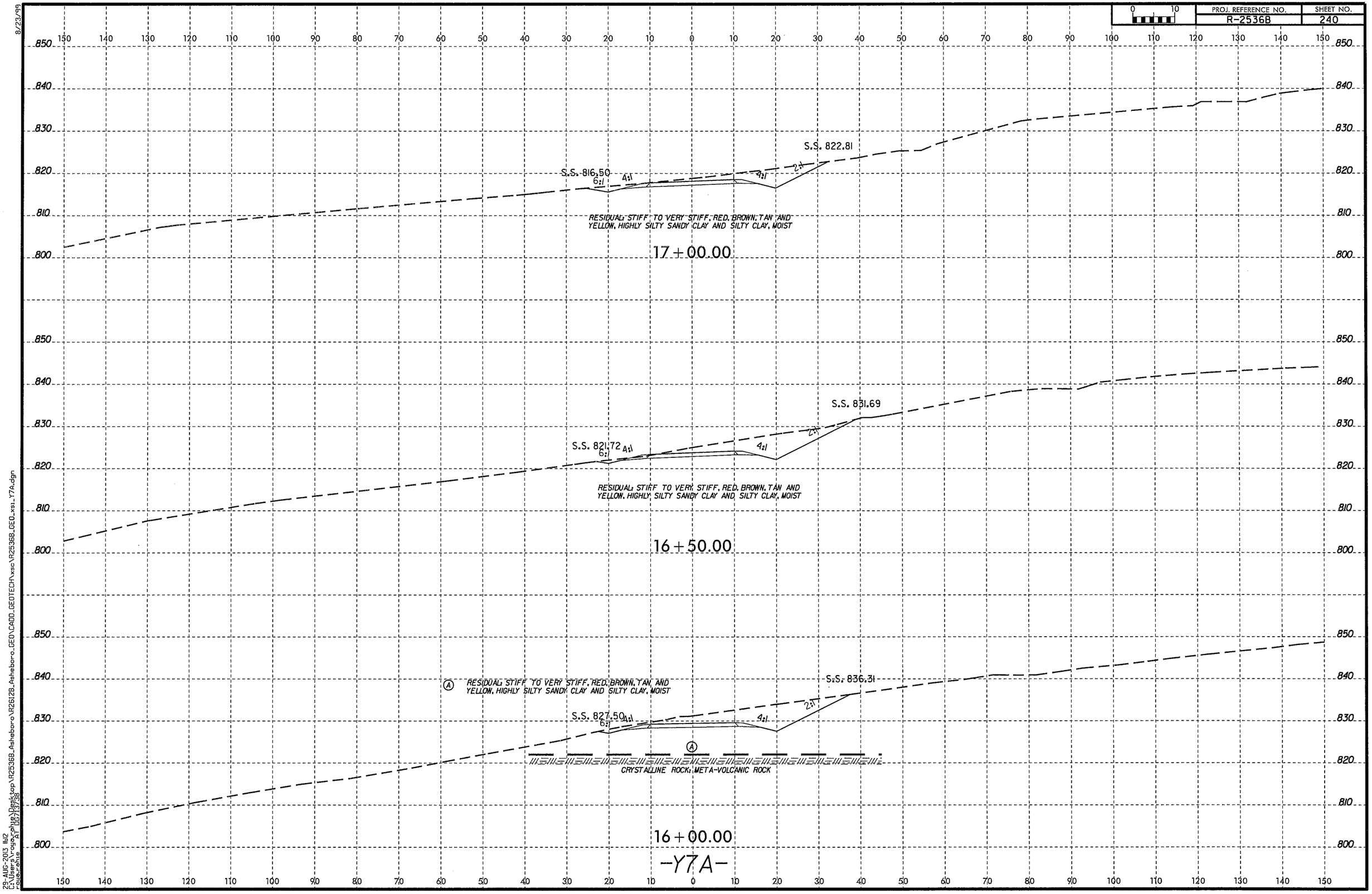
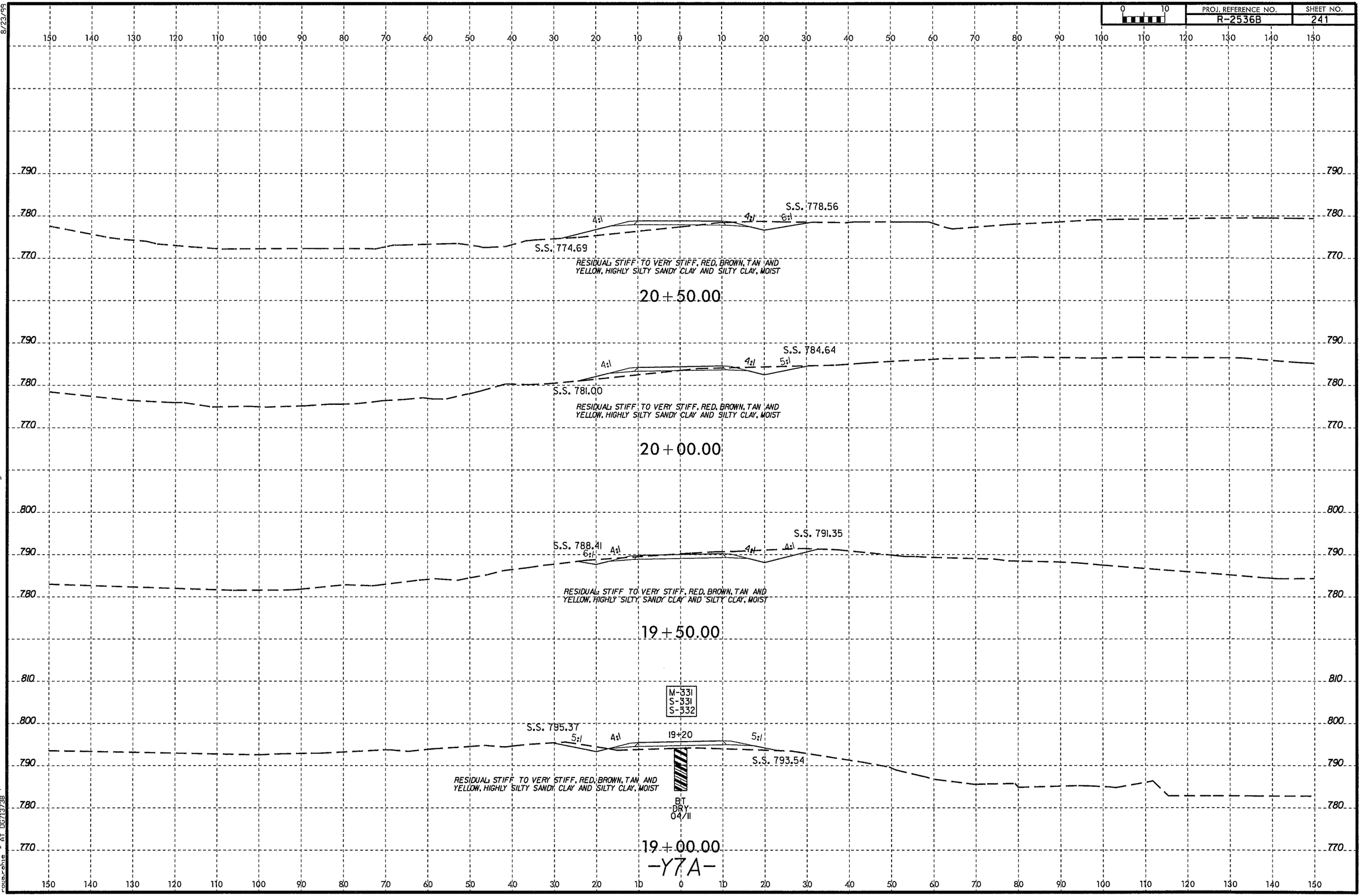
roger.phillips AT DOT/13/38


PROJ. REFERENCE NO.
R-2536B
SHEET NO.
240
S.S. 822.81
S.S. 816.50
6:1
4:1
4:1
2:1
RESIDUAL: STIFF TO VERY STIFF, RED, BROWN, TAN AND YELLOW, HIGHLY SILTY SANDY CLAY AND SILTY CLAY, MOIST
17+00.00
S.S. 831.69
S.S. 821.72
6:1
4:1
4:1
2:1
RESIDUAL: STIFF TO VERY STIFF, RED, BROWN, TAN AND YELLOW, HIGHLY SILTY SANDY CLAY AND SILTY CLAY, MOIST
16+50.00
A
RESIDUAL: STIFF TO VERY STIFF, RED, BROWN, TAN, AND YELLOW, HIGHLY SILTY SANDY CLAY AND SILTY CLAY, MOIST
S.S. 836.31
S.S. 827.50
6:1
4:1
4:1
2:1
A
CRYSTALLINE ROCK: META-VOLCANIC ROCK
16+00.00
-Y7A-
8/23/99
29-AUG-2013 11:12
C:\Users\rogerphil\Desktop\R2536B_Asheboro\R2612B_Asheboro_GEO\CADD_GEOTECH\xsc\R2536B_GEO_xsi_Y7A.dgn
rogerphil
AT DG713738

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	241



8/23/99

29-AUG-2013 11:12
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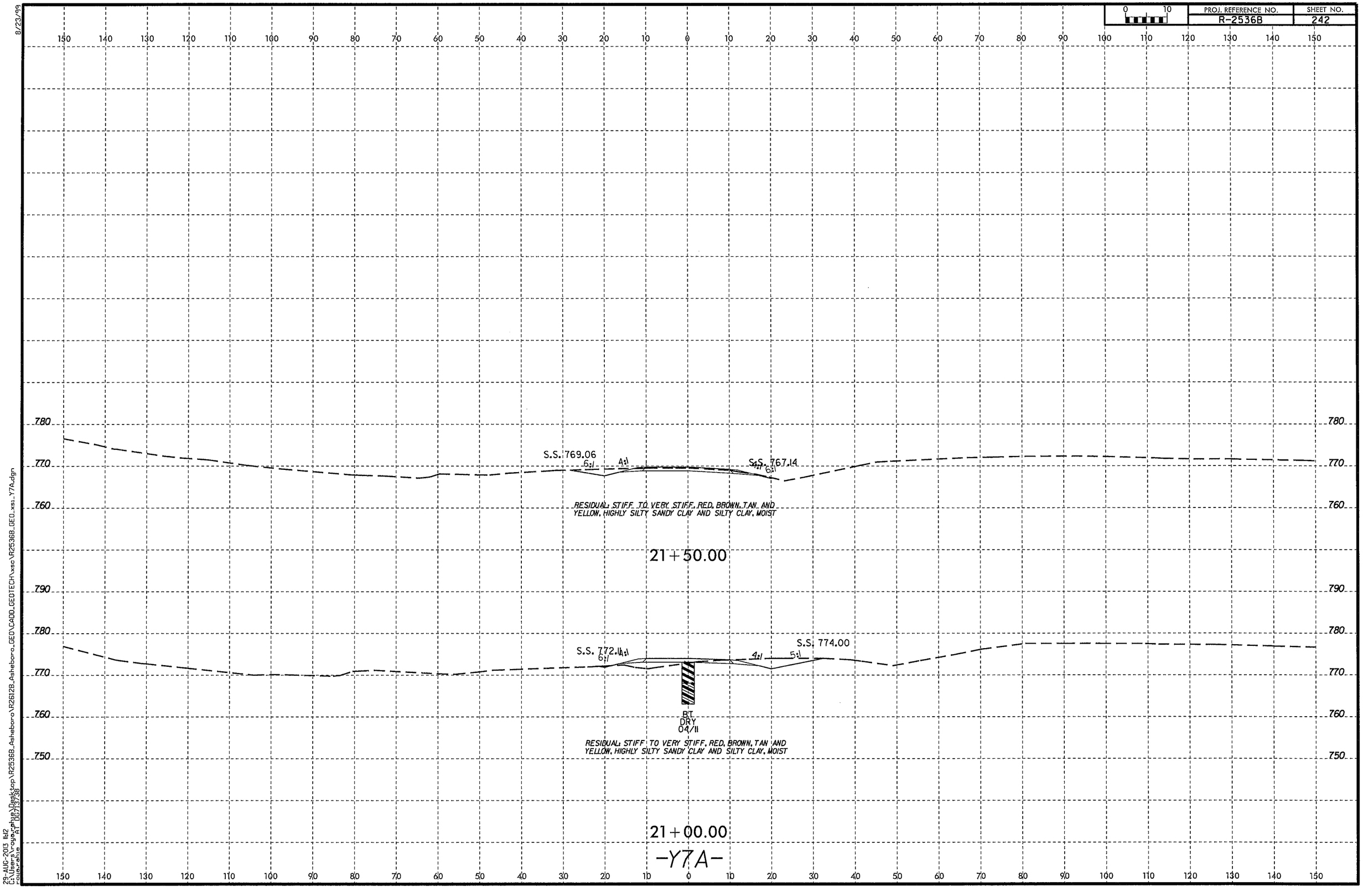
roger.phie AT DOT/13/38



8/23/99

23-AUG-2013 11:12
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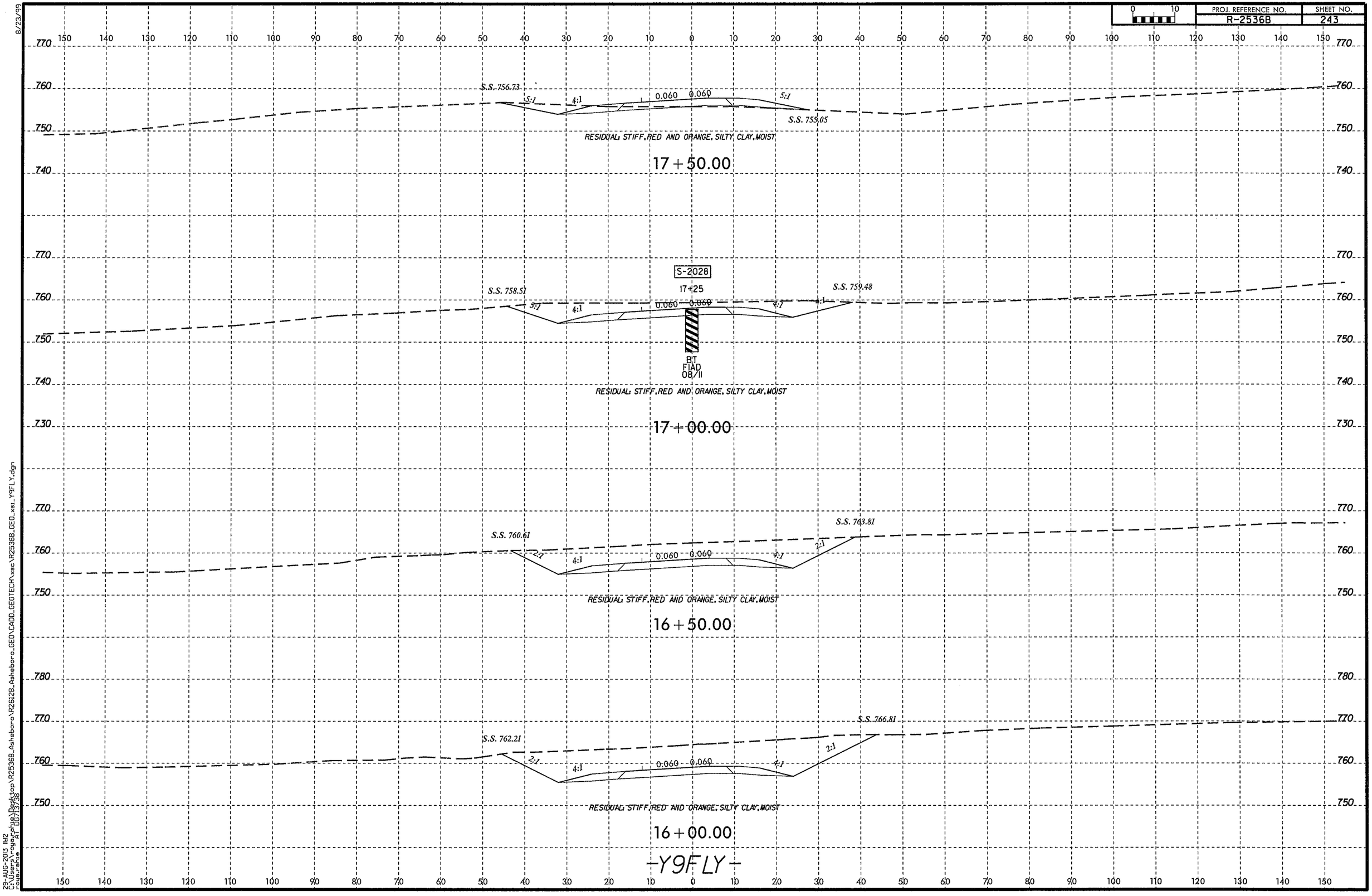
roger.phelps
A1 D6715738



8/23/99
29-AUG-2013 11:12
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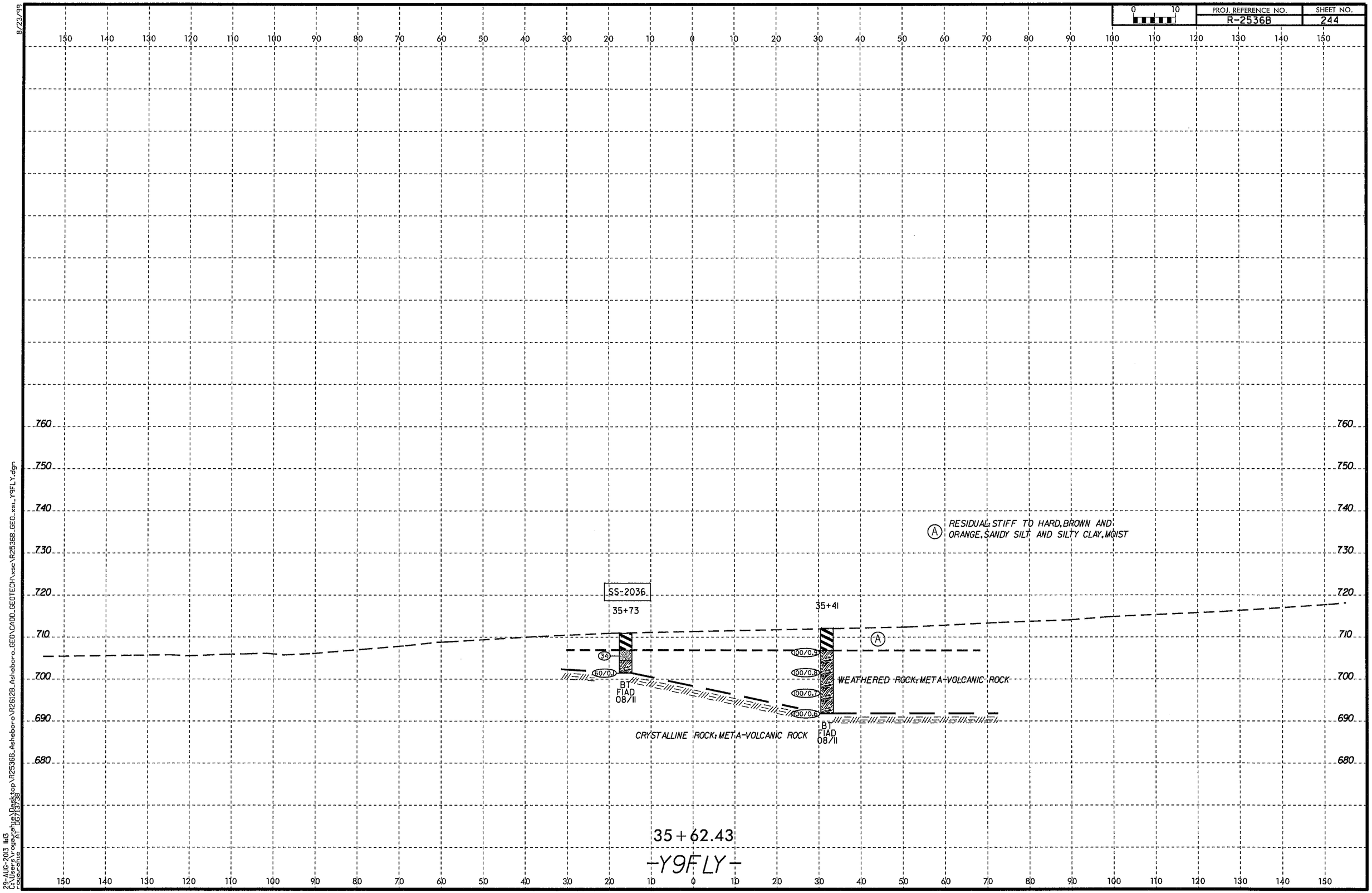
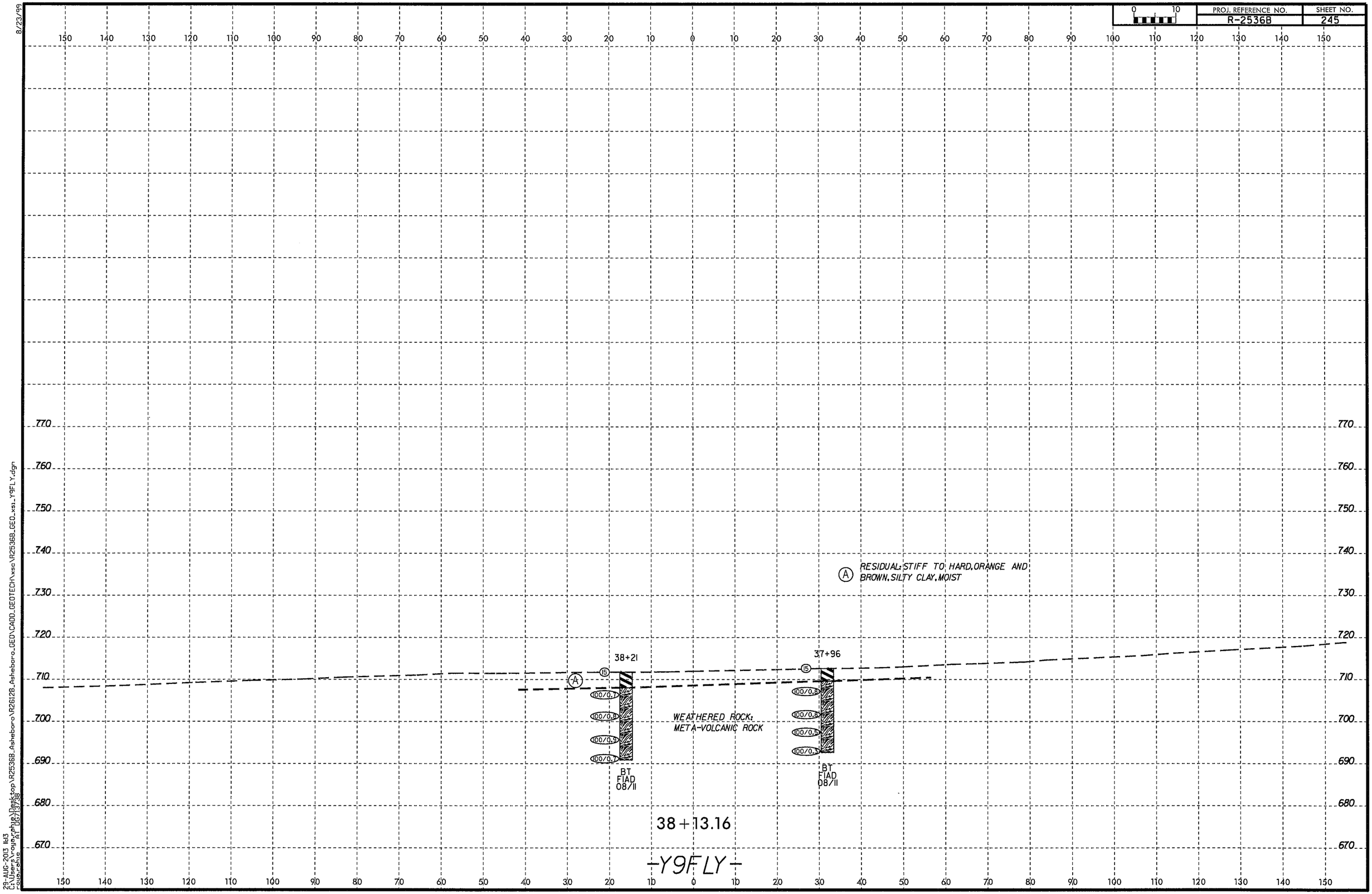
rogerphie A1 06/13/36


PROJ. REFERENCE NO.
R-2536B
SHEET NO.
244
0 10
RESIDUAL: STIFF TO HARD, BROWN AND ORANGE, SANDY SILT AND SILTY CLAY, MOIST
SS-2036
35+73
35+41
WEATHERED ROCK: META-VOLCANIC ROCK
CRYSTALLINE ROCK: META-VOLCANIC ROCK
BT
FIAD
08/11
35+62.43
-Y9FLY-
760
750
740
730
720
710
700
690
680
8/23/99
29-AUG-2013 11:13
C:\Users\roya.rahe\Desktop\R2536B_Asheboro\R2612B_Asheboro_GEO\CADD_GEOTECH\xsec\R2536B_GEO_xs1_Y9FLY.dgn
roya.rahe
AT 05/13/38



8/23/99

29-AUG-2013 14:13
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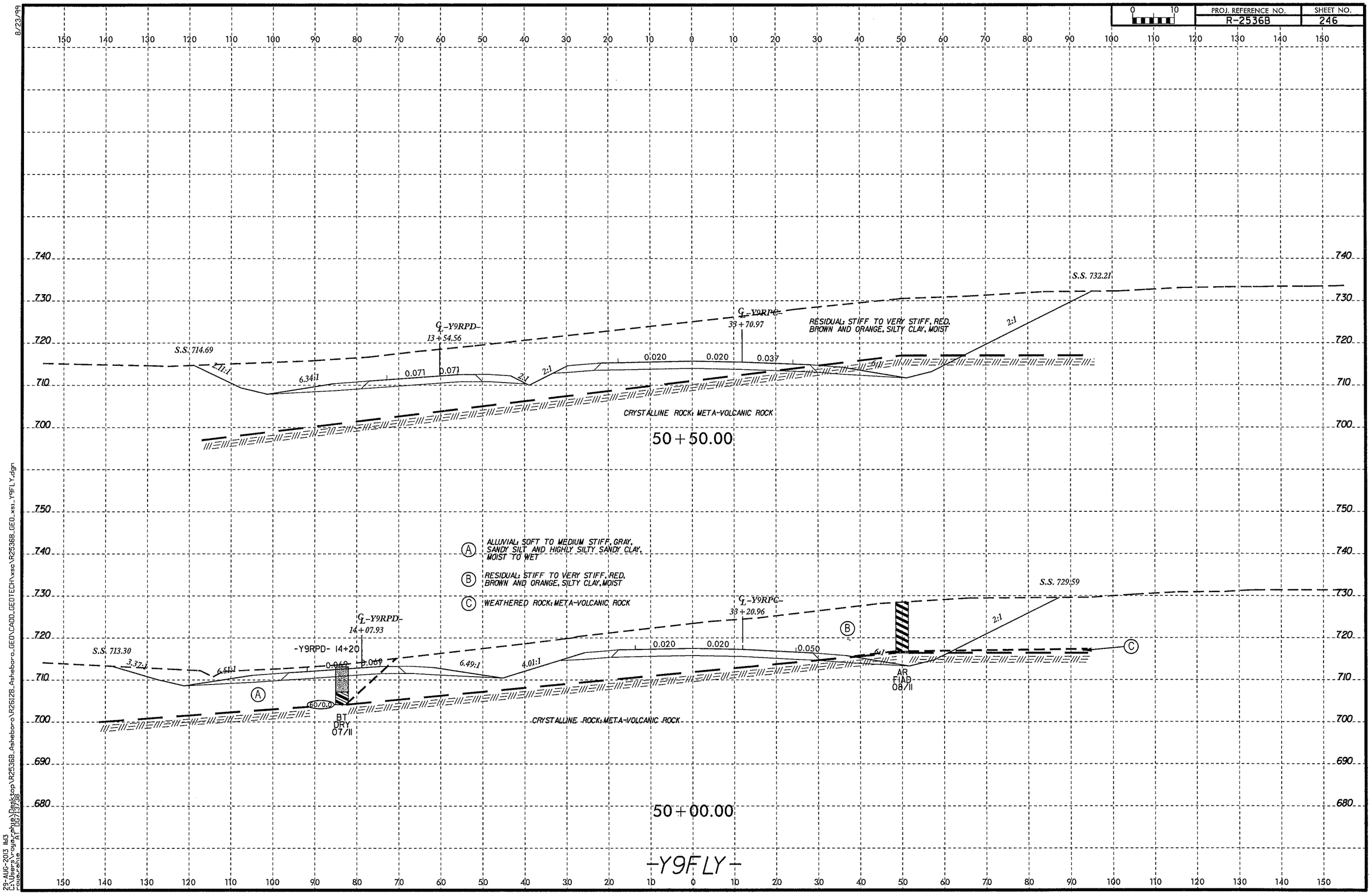
rogerphe AT DB/13/38



8/23/99
29-AUG-2013 11:13
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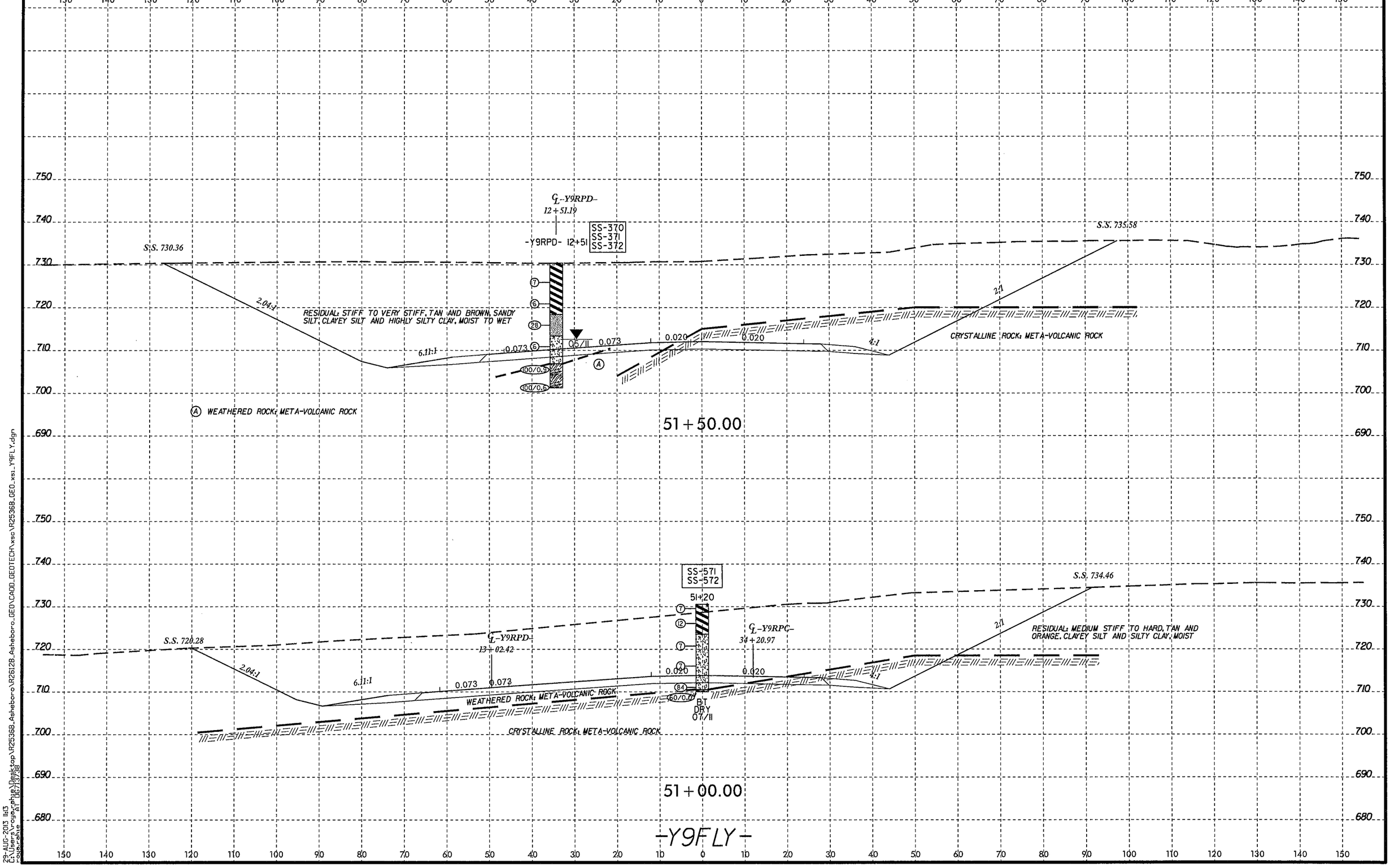
roger.ahne AT DOT/TSB



8/23/99
23-AUG-2013 11:13
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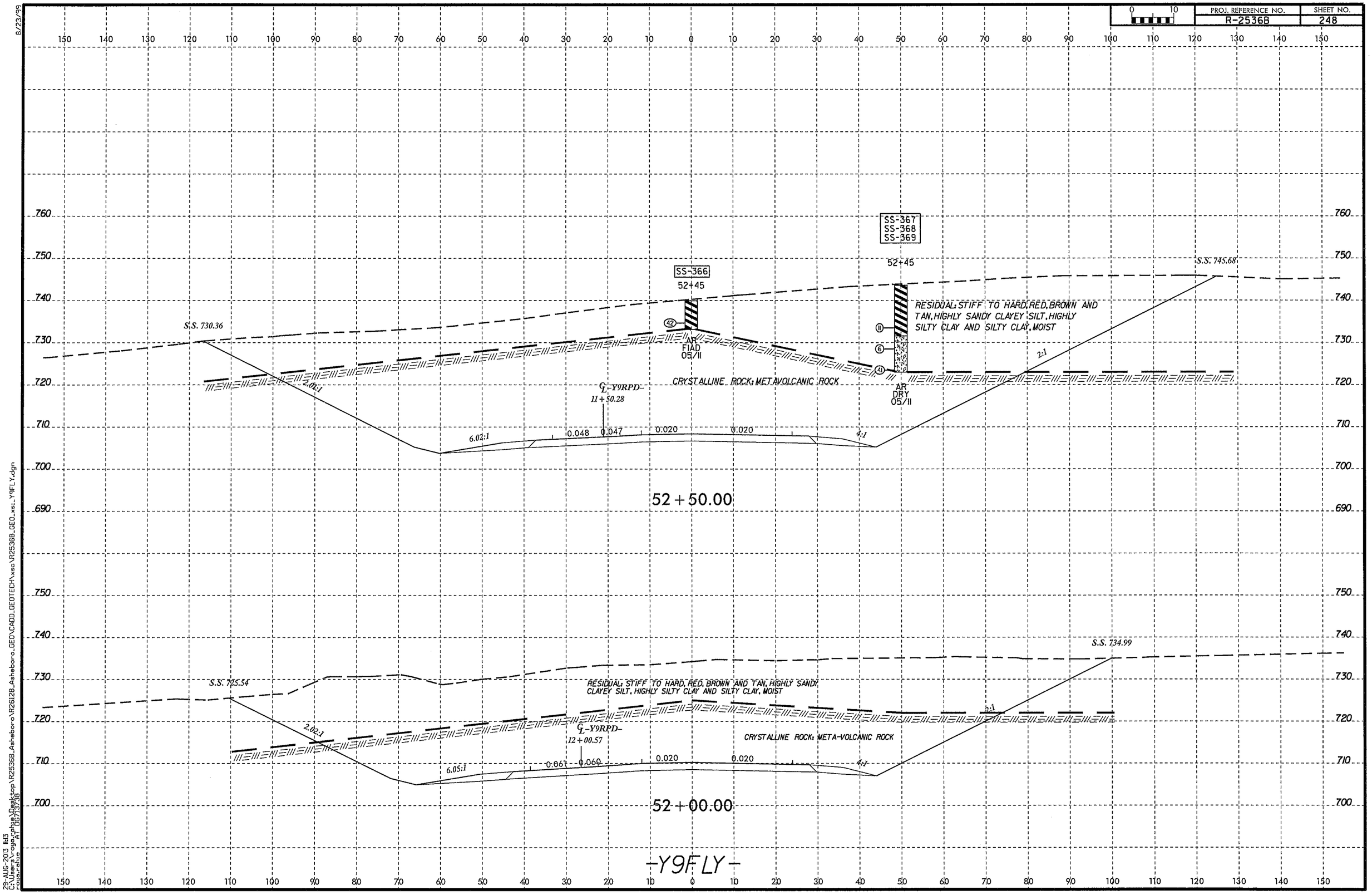
roupe.rahie AT DG713736



8/23/99
29-AUG-2013 11:13
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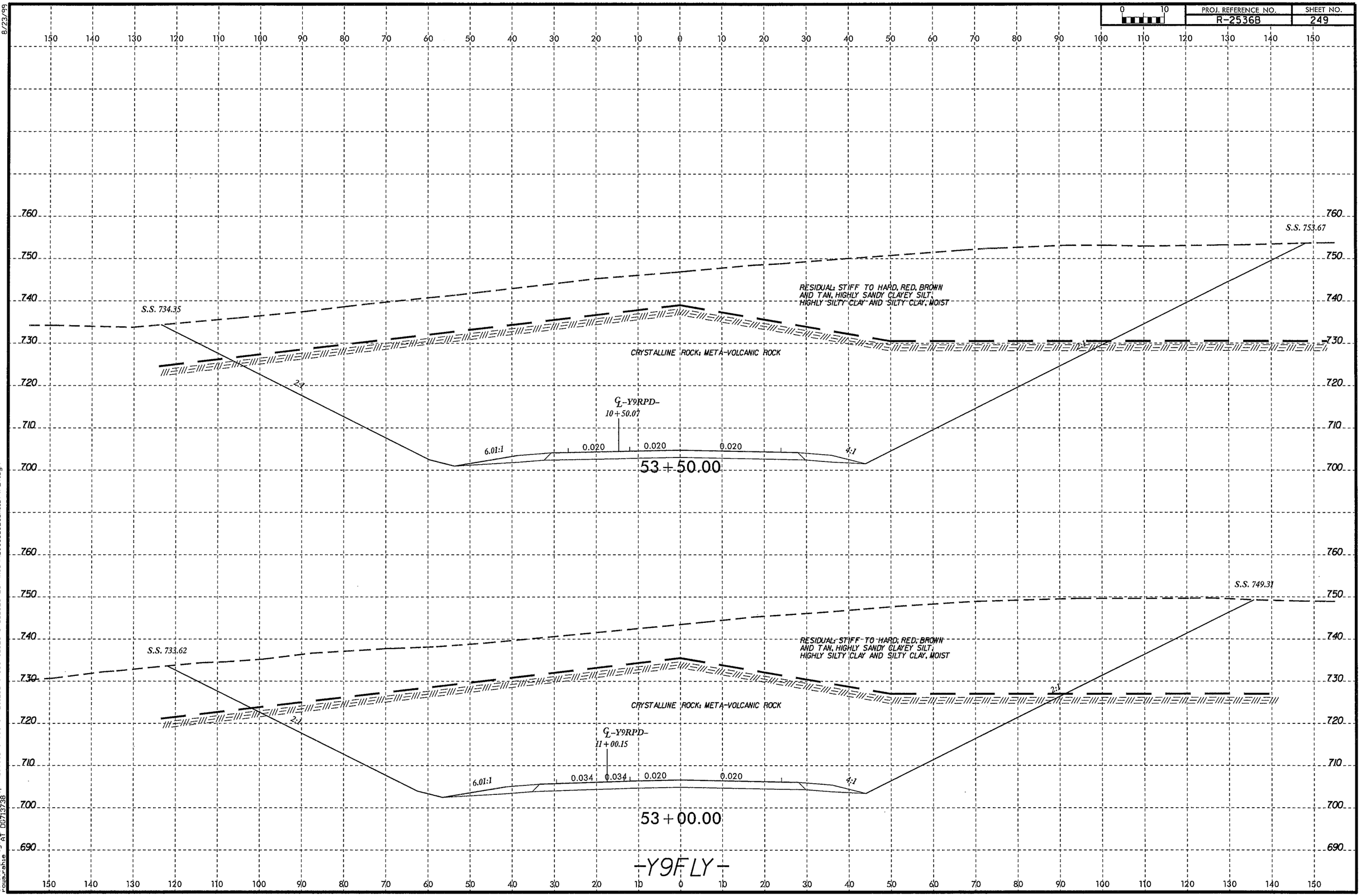
rogerphe
AT D5713738

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	249



8/23/99

23-AUG-2013 11:13
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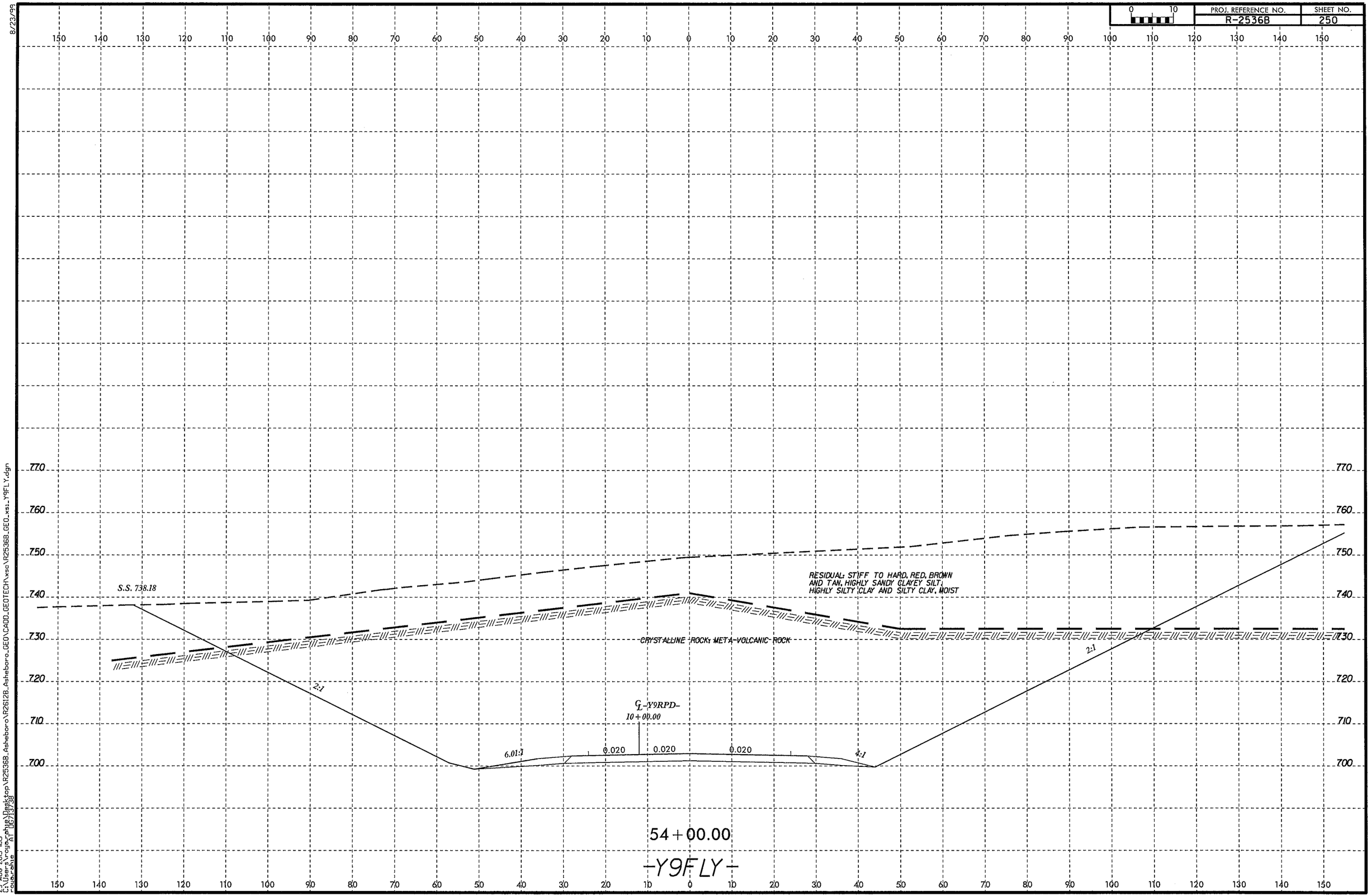
pwis.sine AT: D5713728



8/23/99

29-AUG-2013 11:13
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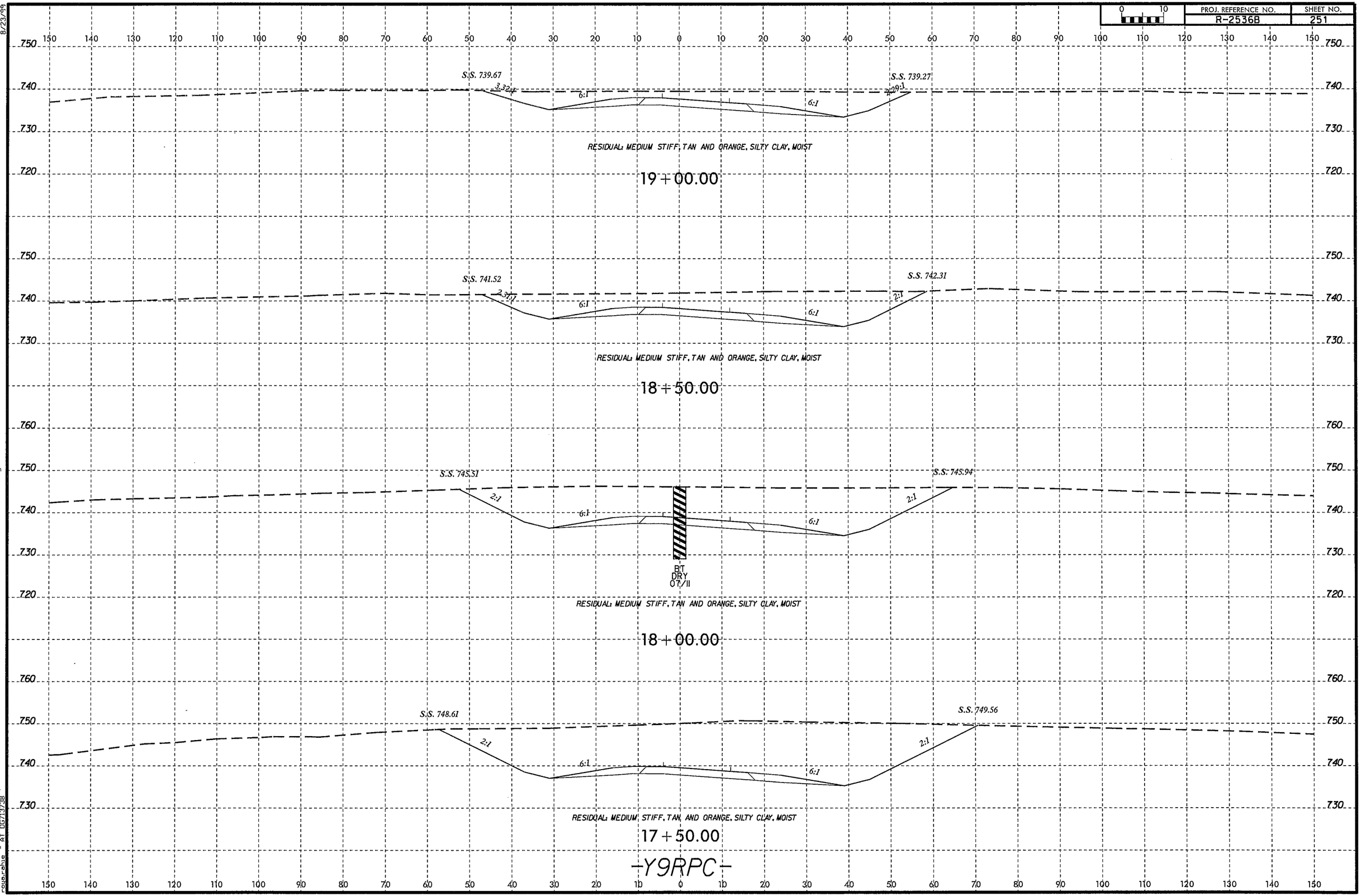
roger.phillips AT DOT13738

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	251



8/23/99

29-AUG-2013 14:13
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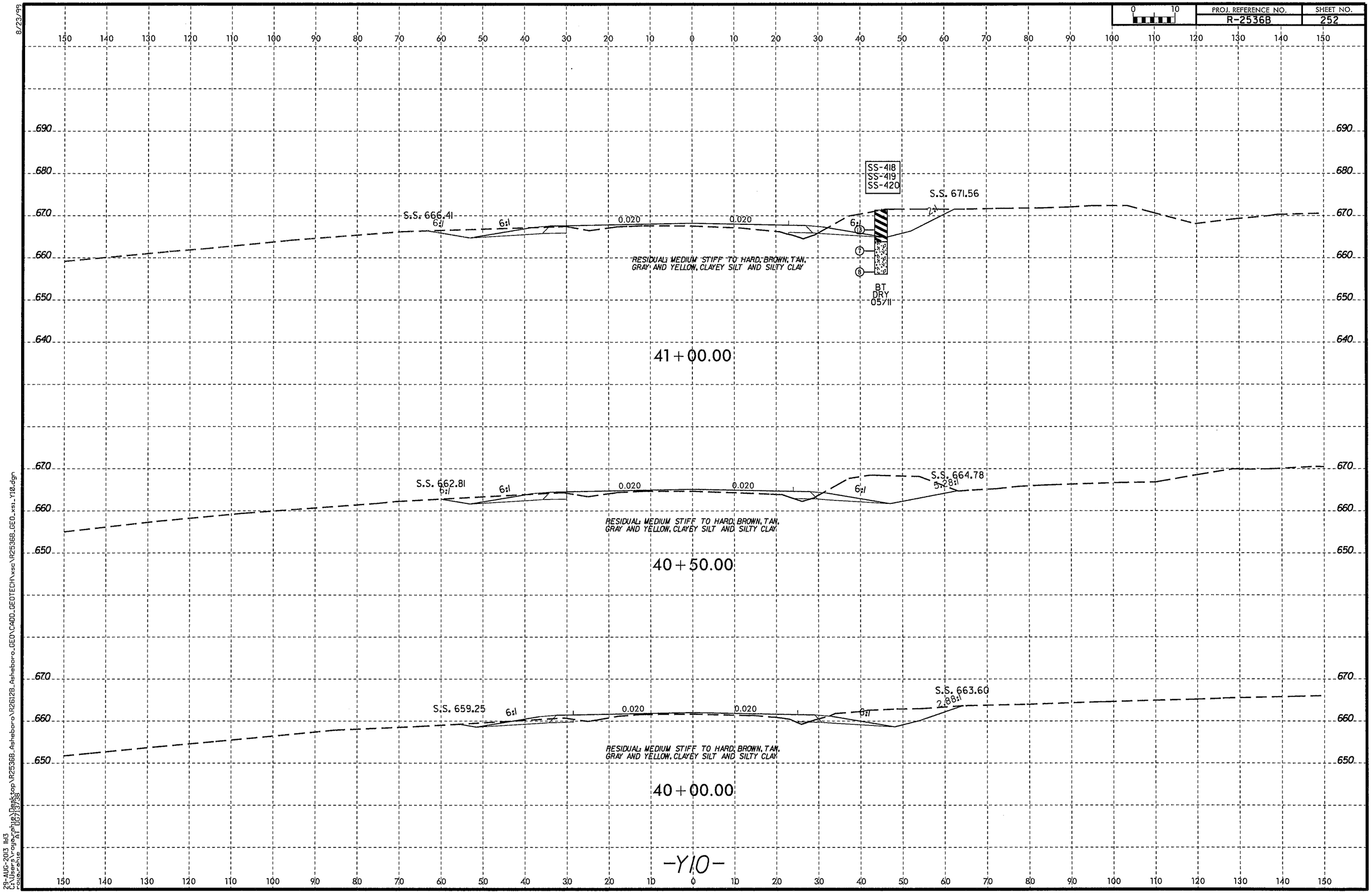
rayarchie AT DB713738

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	252



8/23/99

29-AUG-2013 11:13
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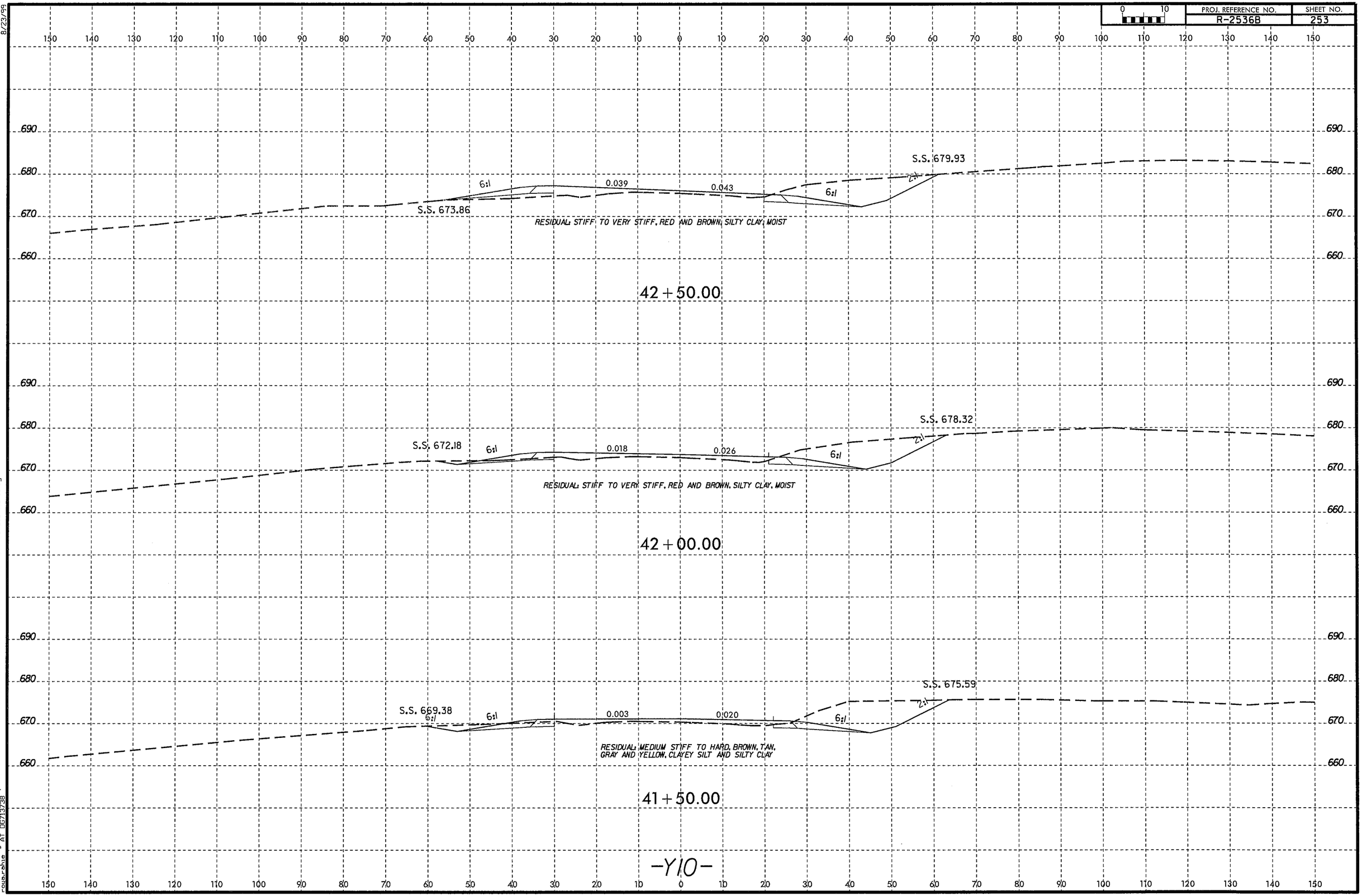
rajoyce AT DOT13738



8/23/99
29-AUG-2013 11:13
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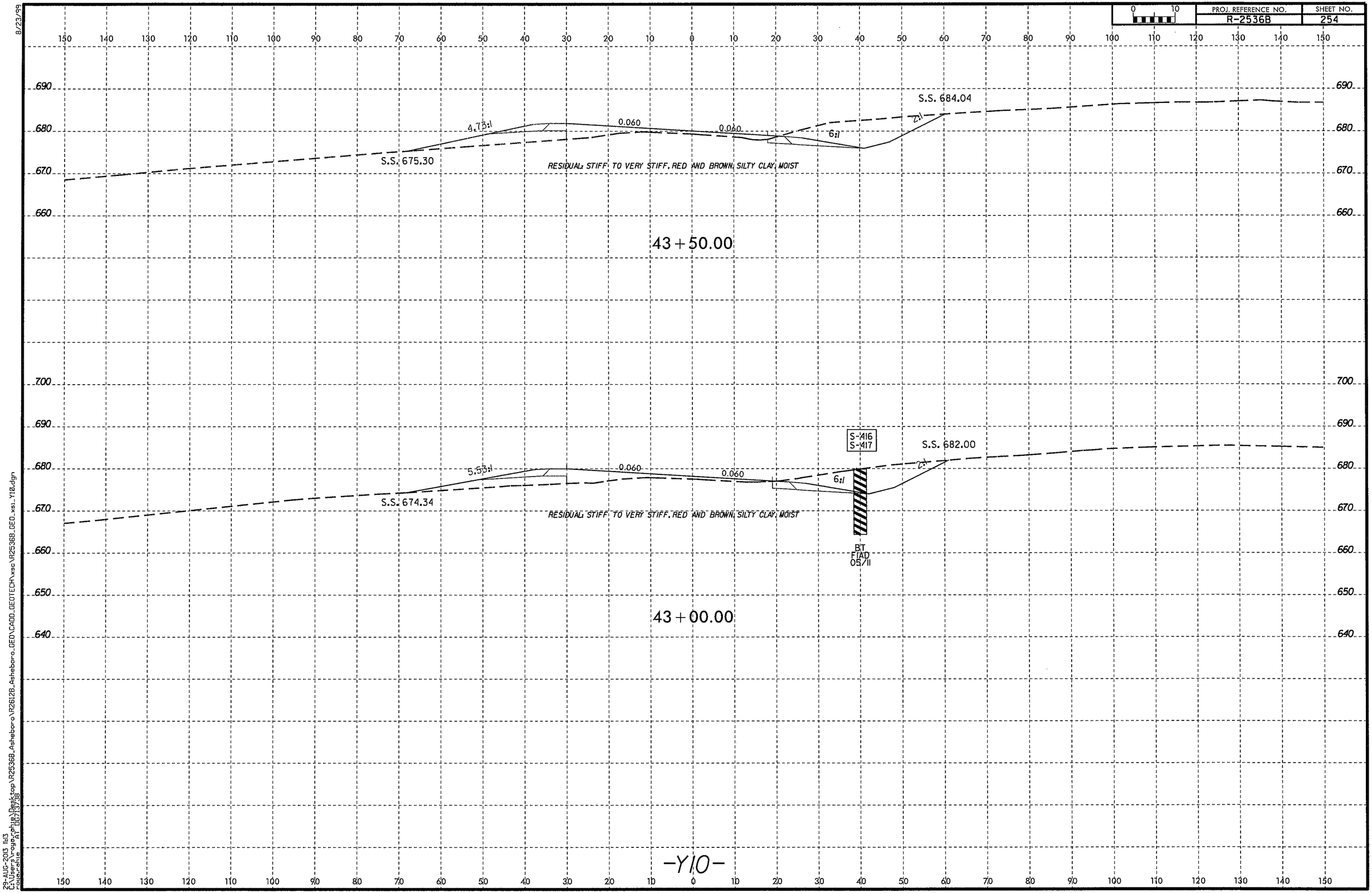
roger.phillips AT 0071978



8/23/99
29-AUG-2013 11:13
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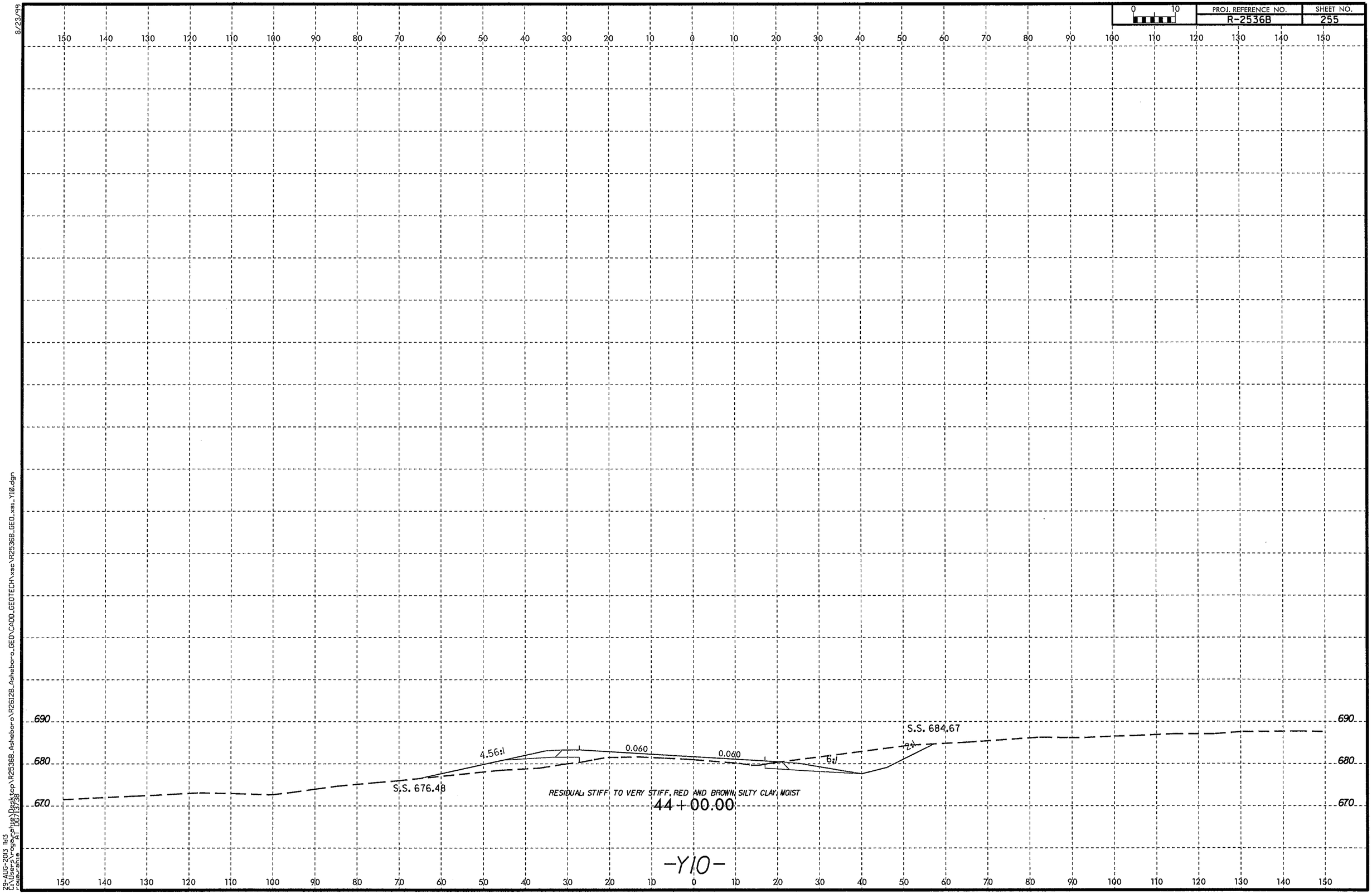
roia.rahe AT 1D/13/38



8/23/99

29-AUG-2013 11:13
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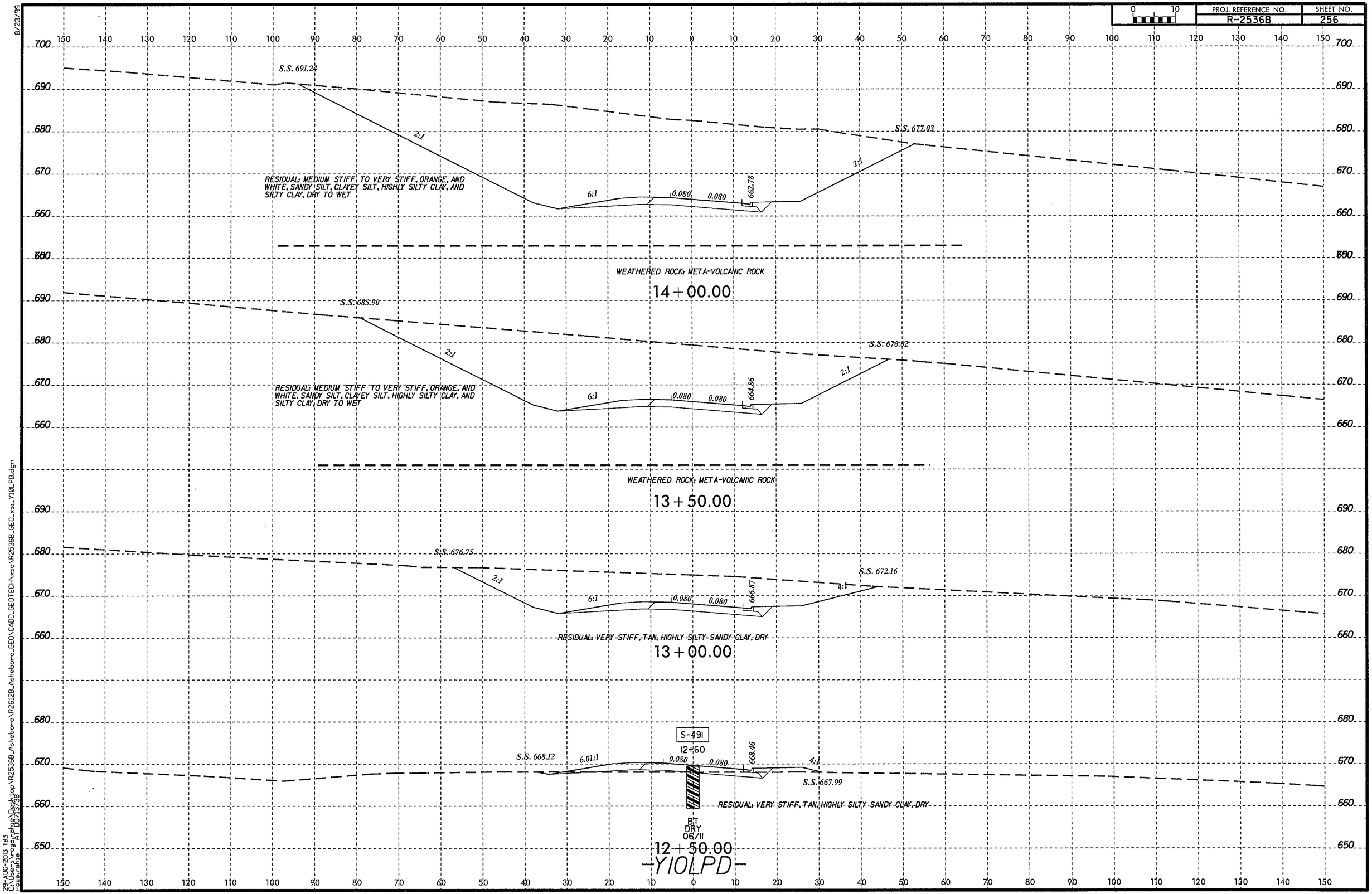
rogerphie AT DG713738



8/23/99

29-AUG-2013 11:13
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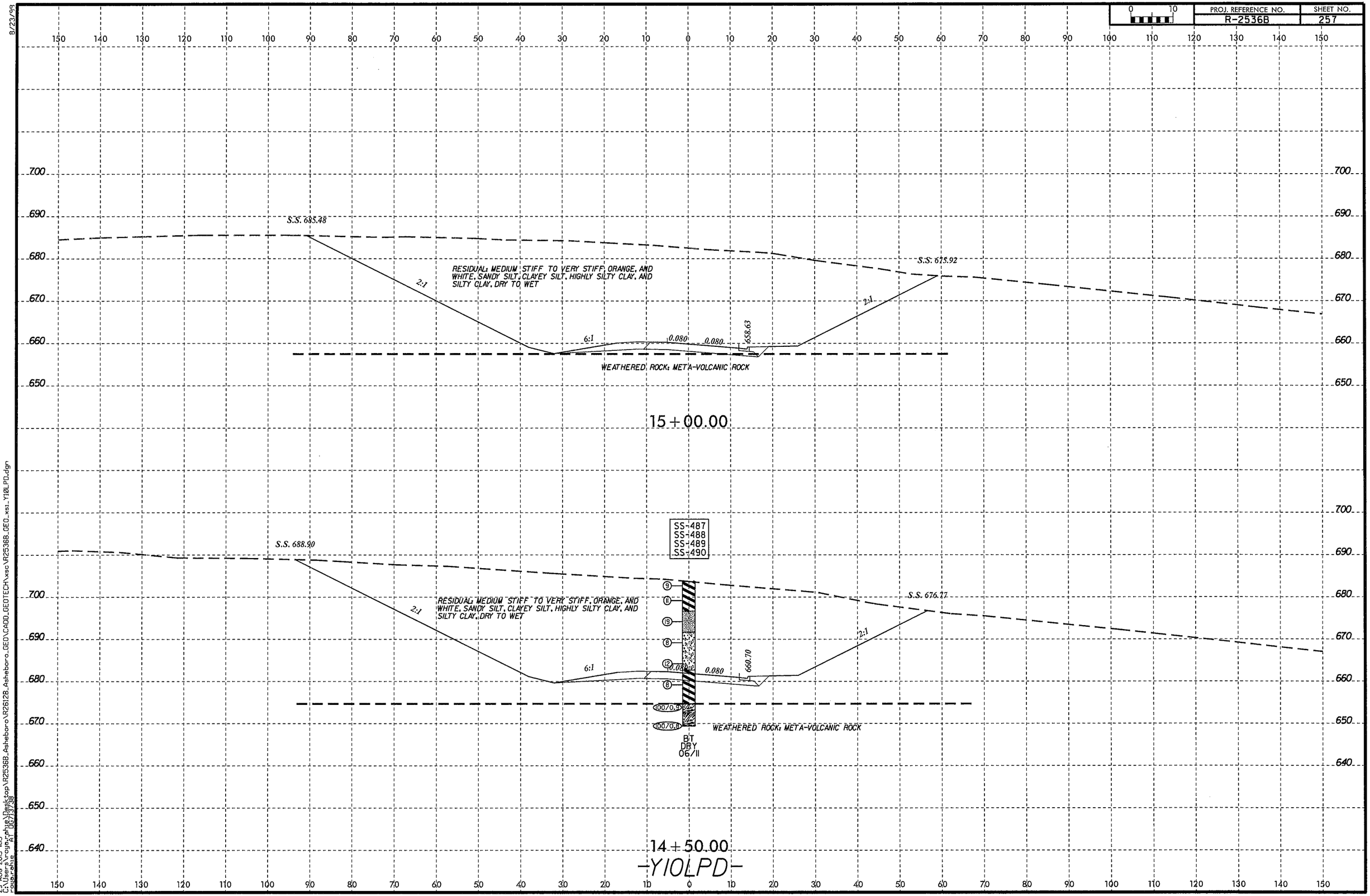
rogerphillips
AT DB713738



8/23/99
29-AUG-2013 11:13
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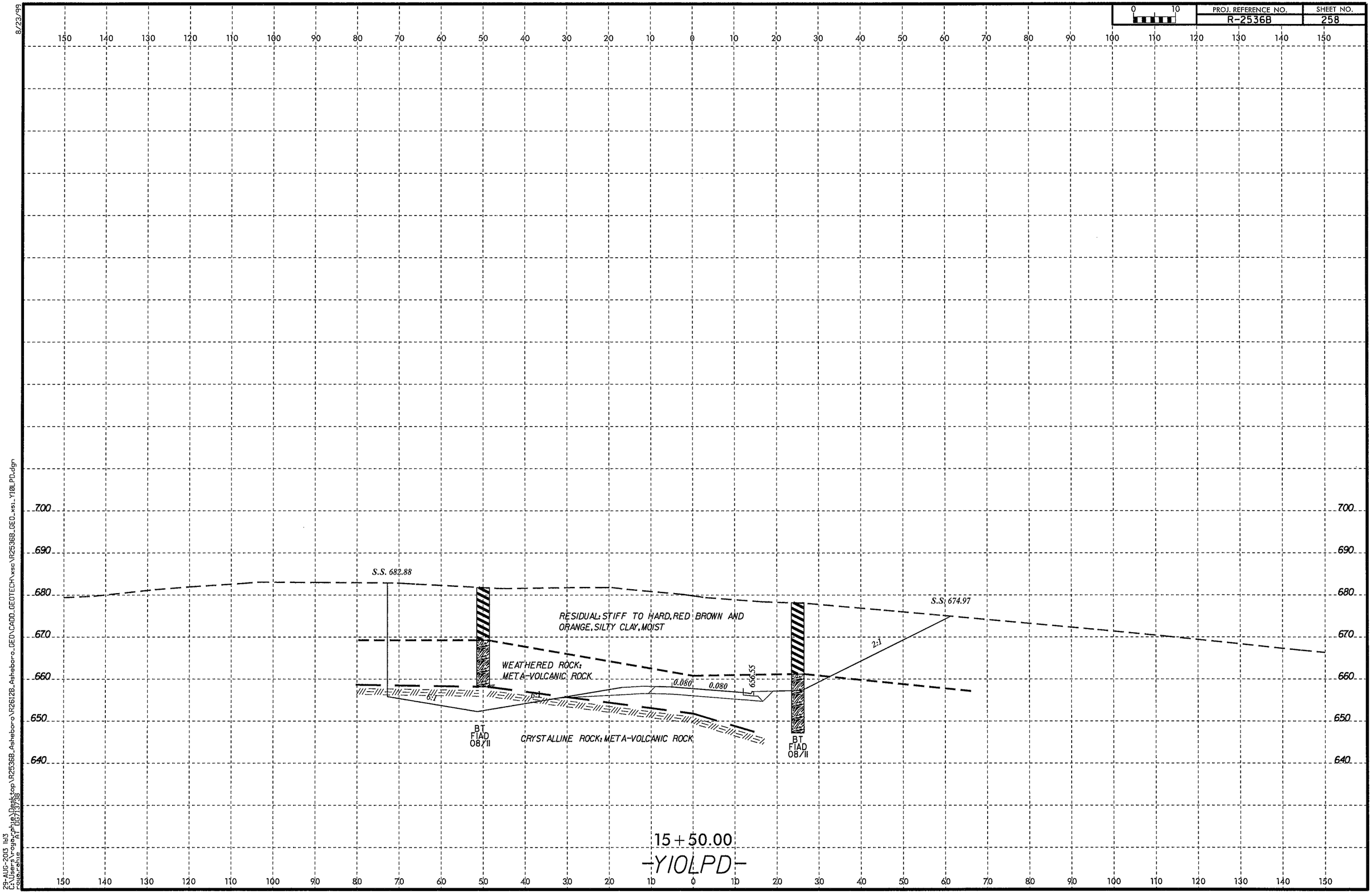
roger.phillips

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	258



8/23/99

29-AUG-2013 11:13
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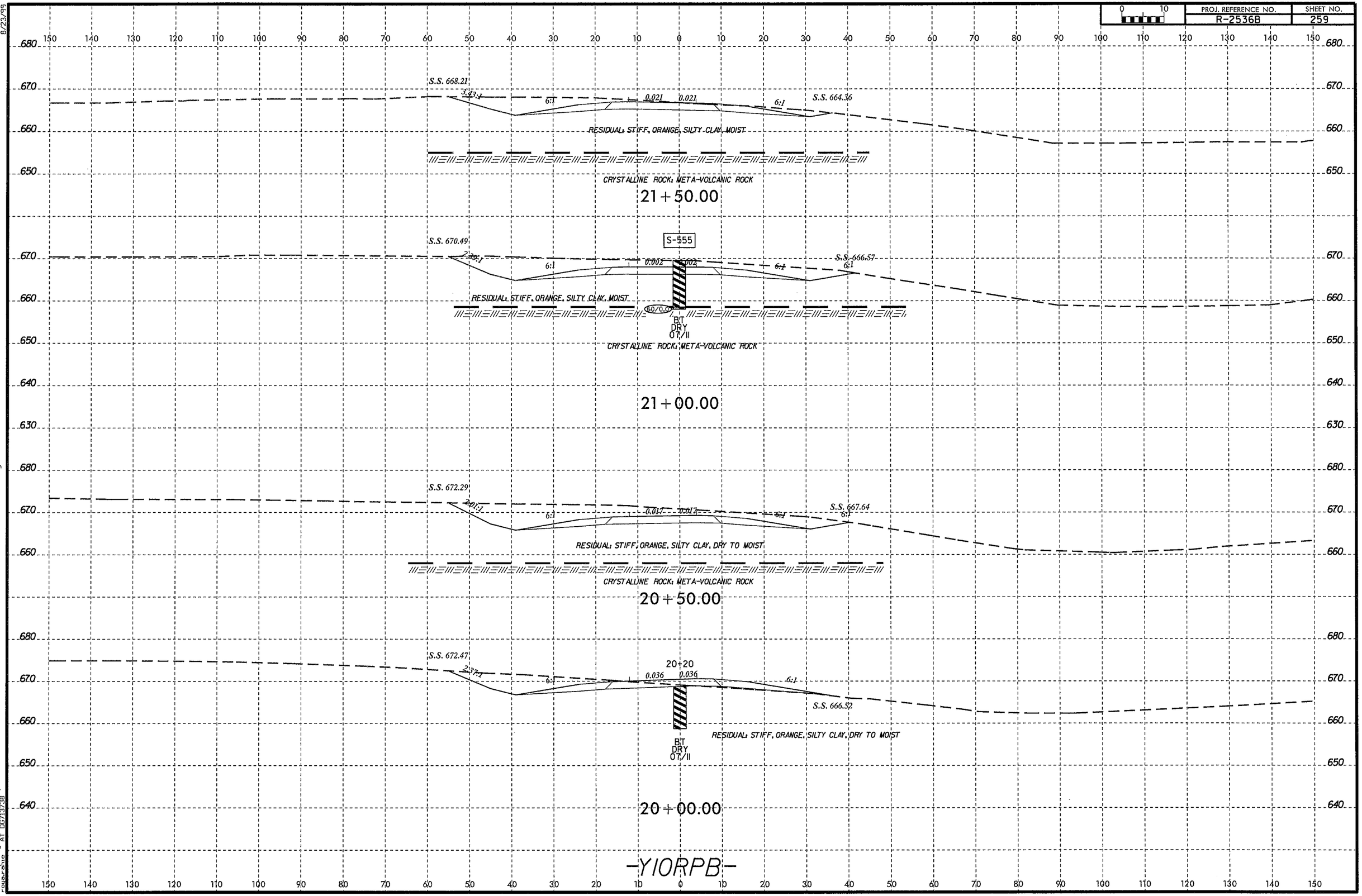
roger.rehe AT DG713736



8/23/99
29-AUG-2013 11:13
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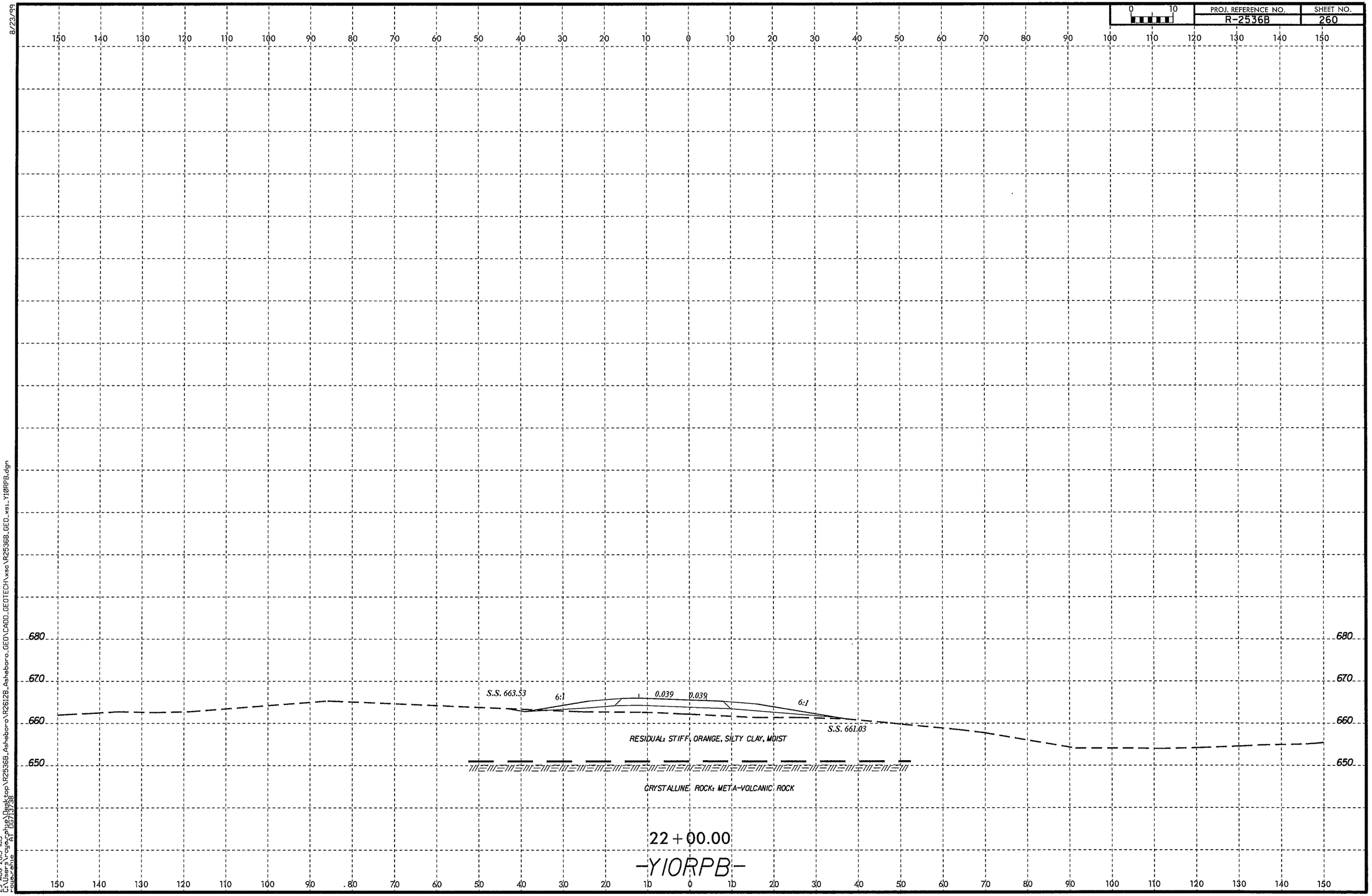
roger.chris AT DOT/13/38



8/23/99
29-AUG-2013 14:13
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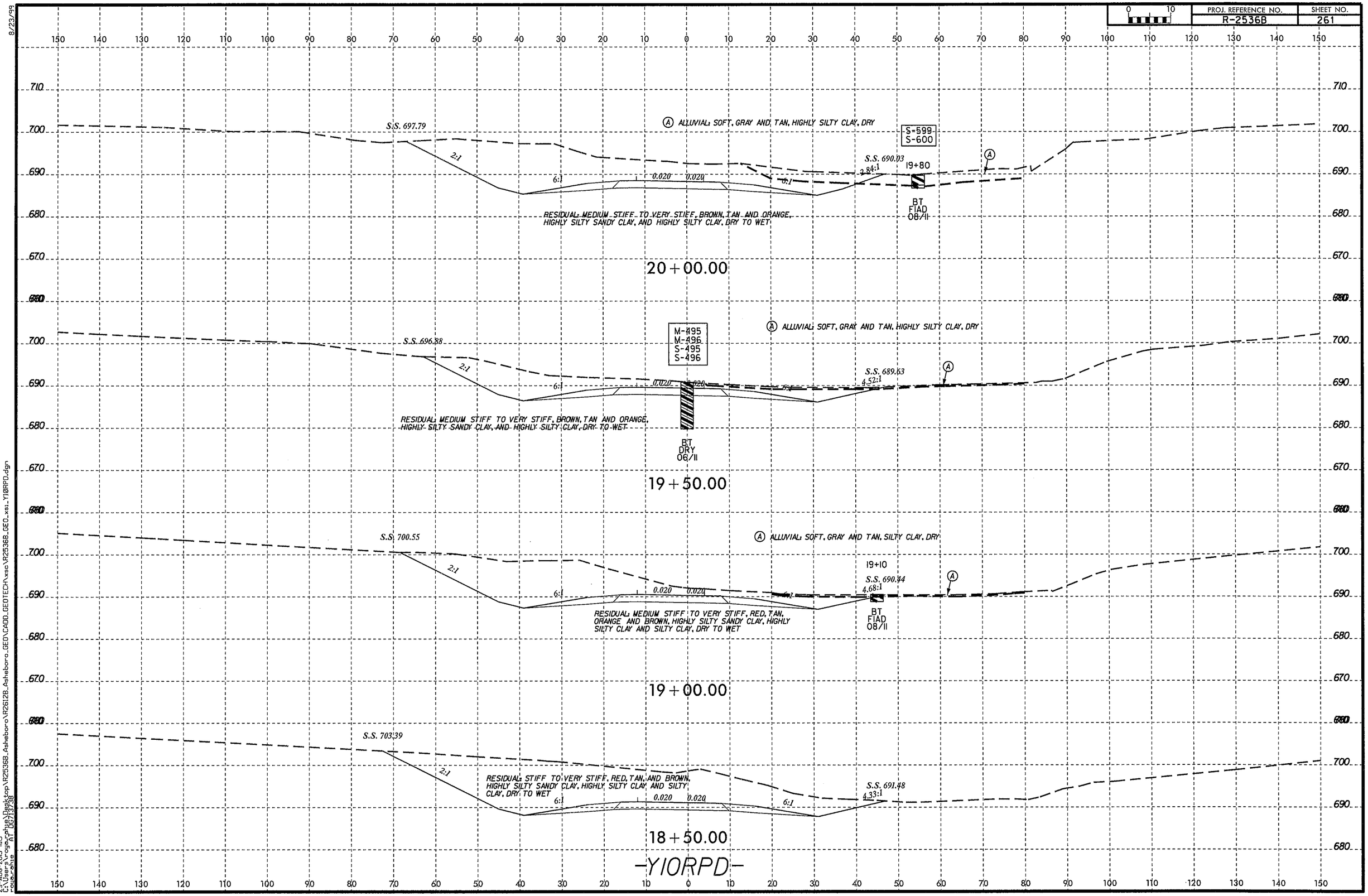
roya.rahie AT 0573738



8/23/99

29-AUG-2013 11:13
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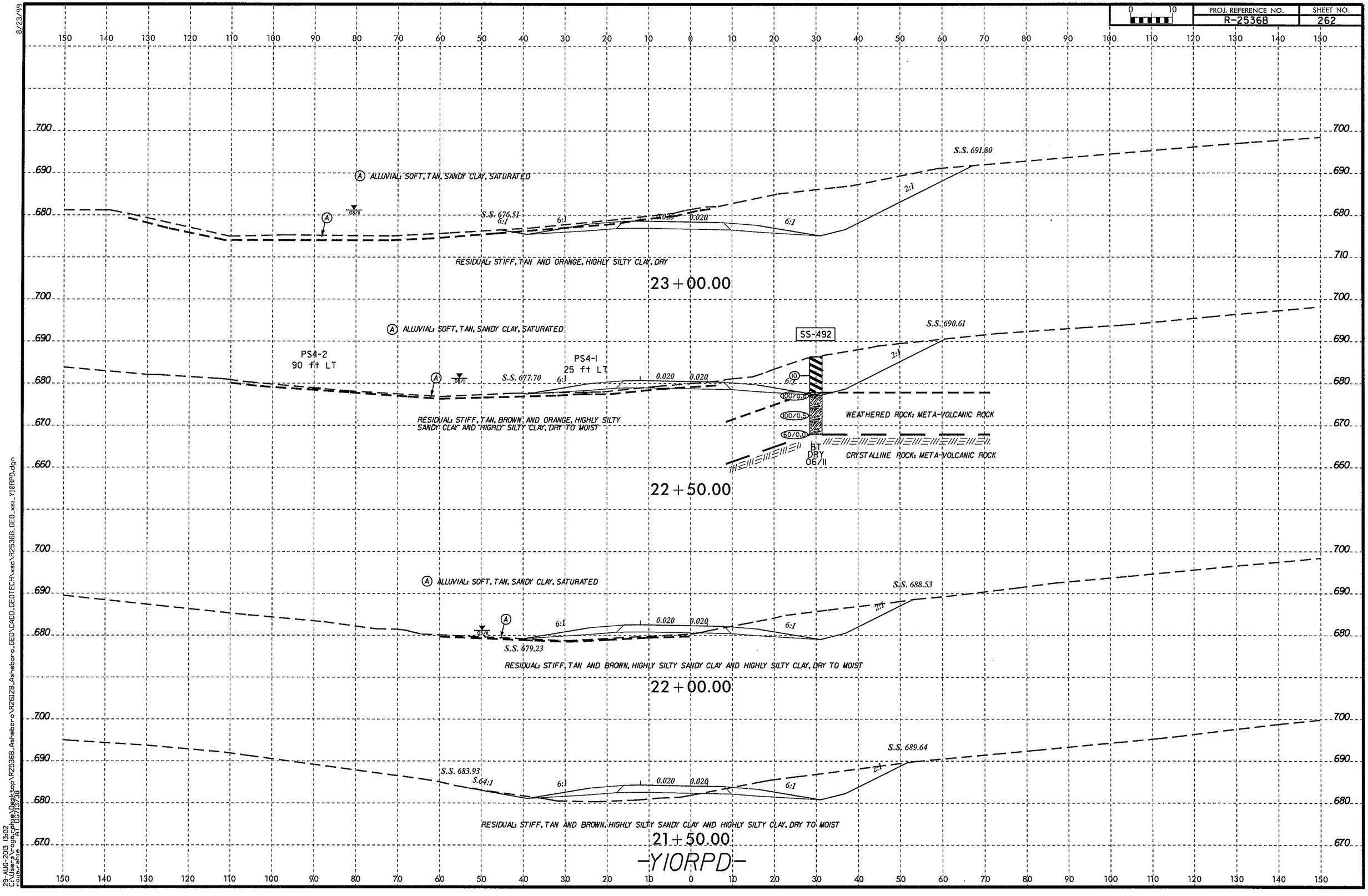
roue.rphillips AT 06713738

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	262



8/23/99

23-AUG-2013 13:02
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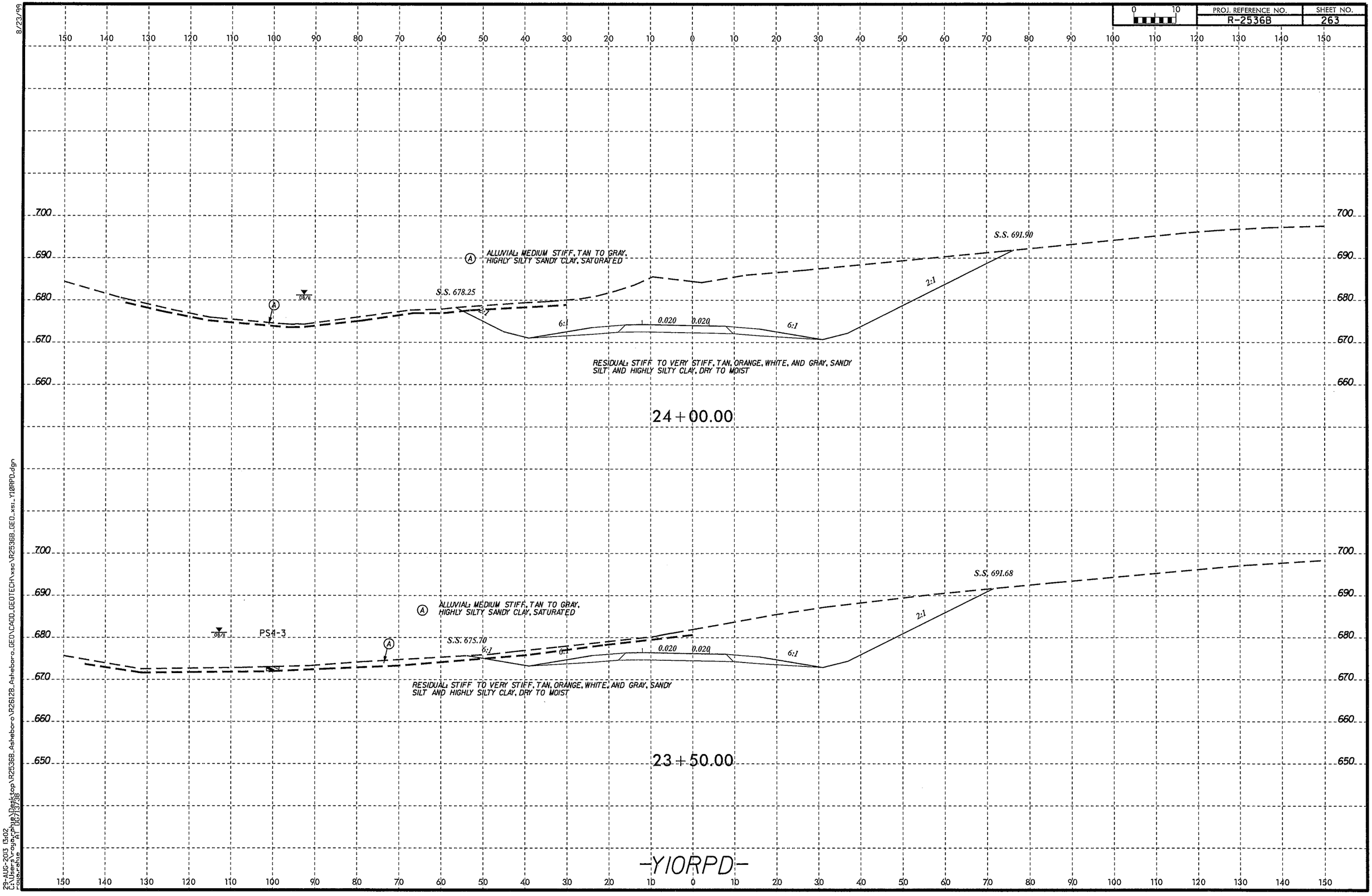
roger.phillips AT DG713738

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	263



8/23/99

29-AUG-2013 13:02
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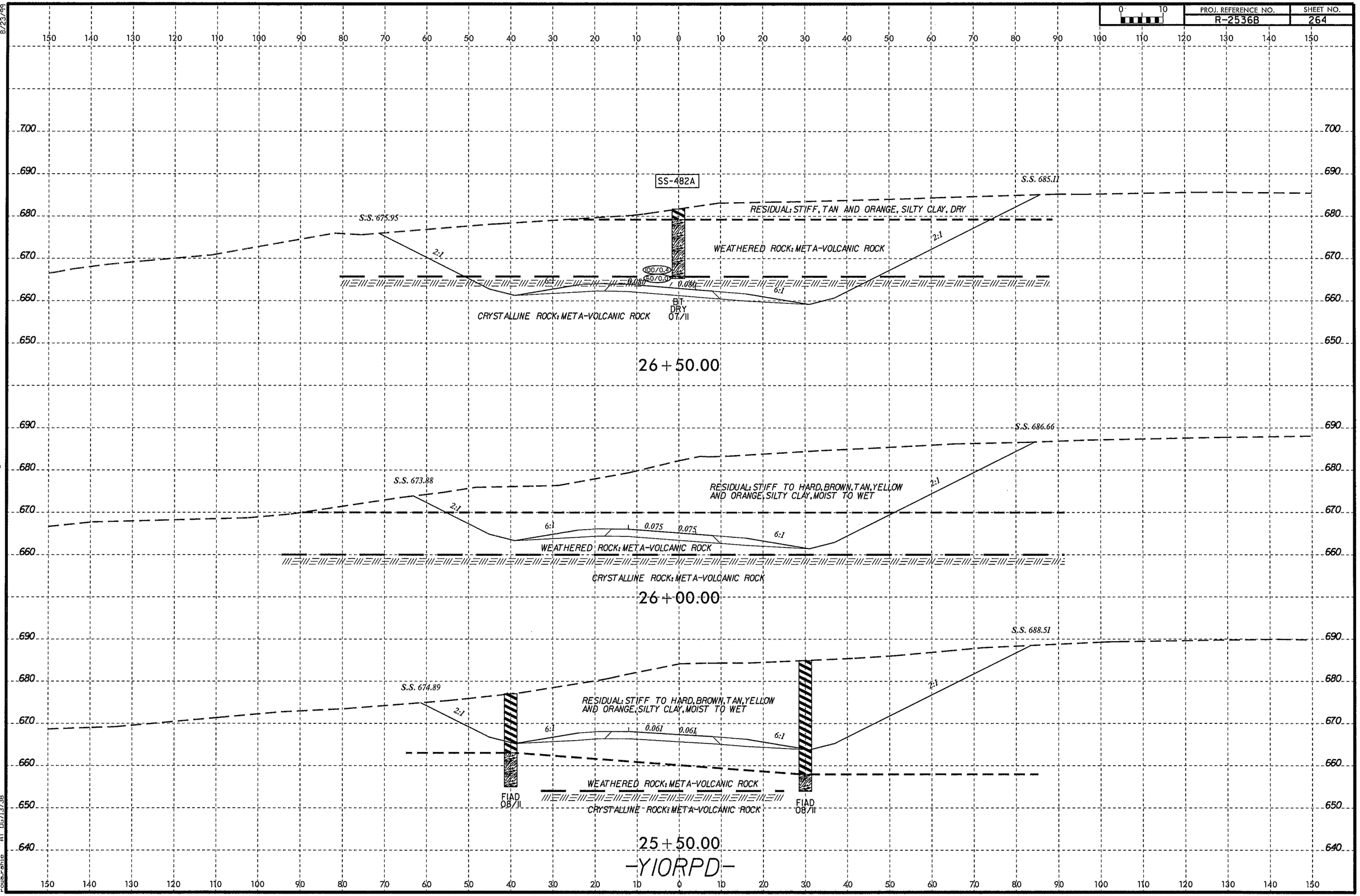
rouserphue AT DOT/3/30



8/23/99
29-AUG-2013 11:13
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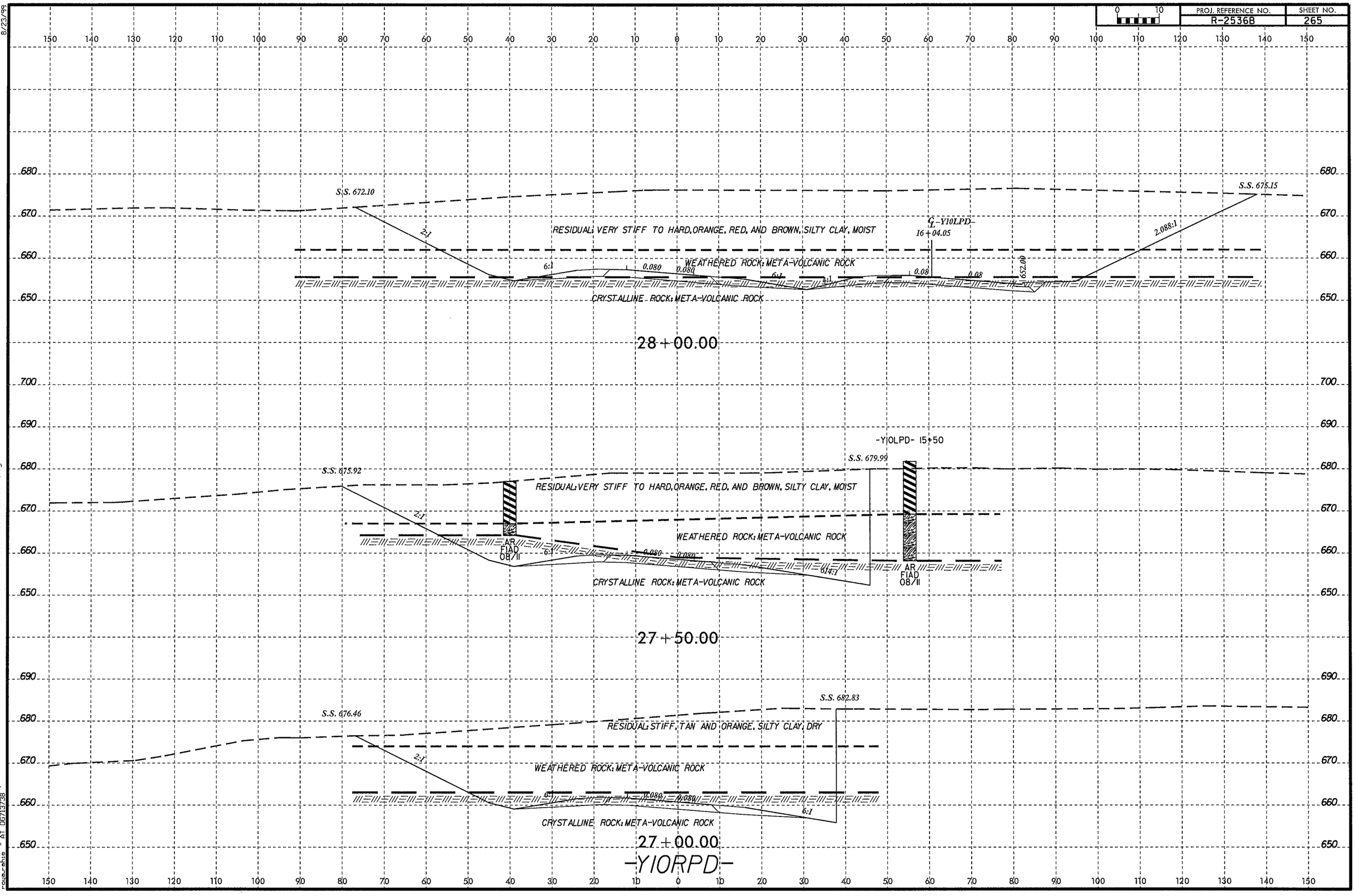
AT 08/13/38



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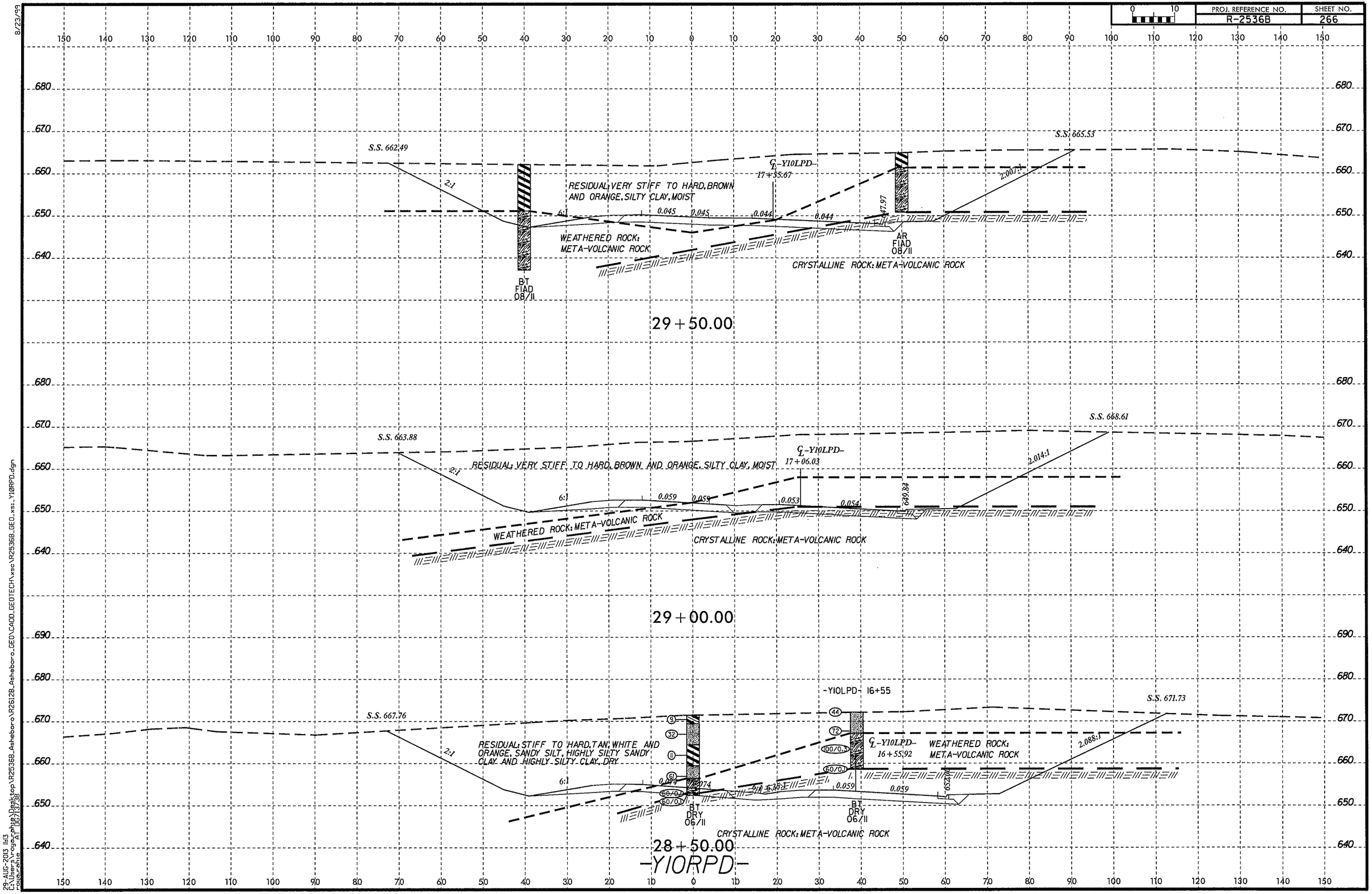

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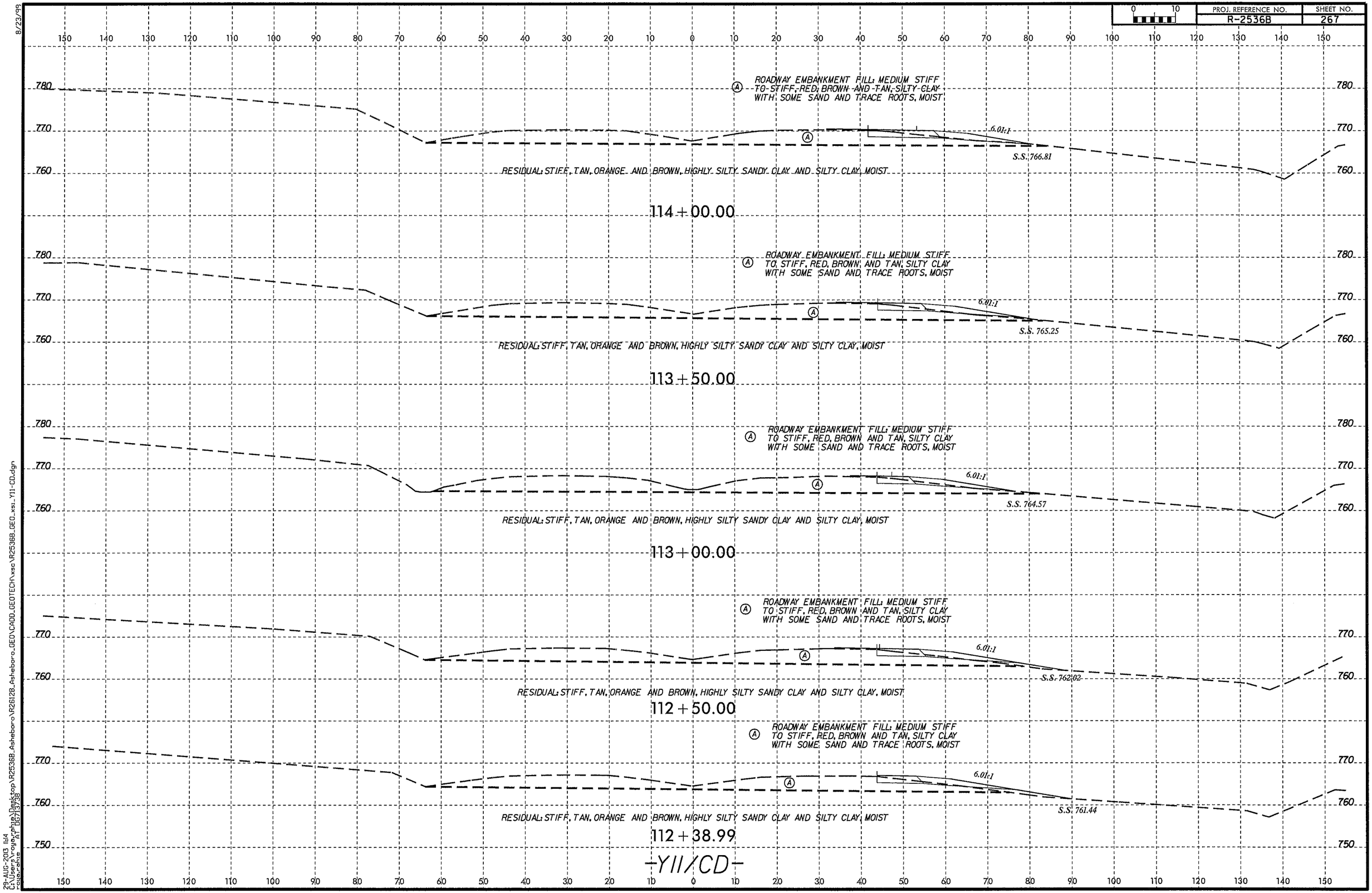

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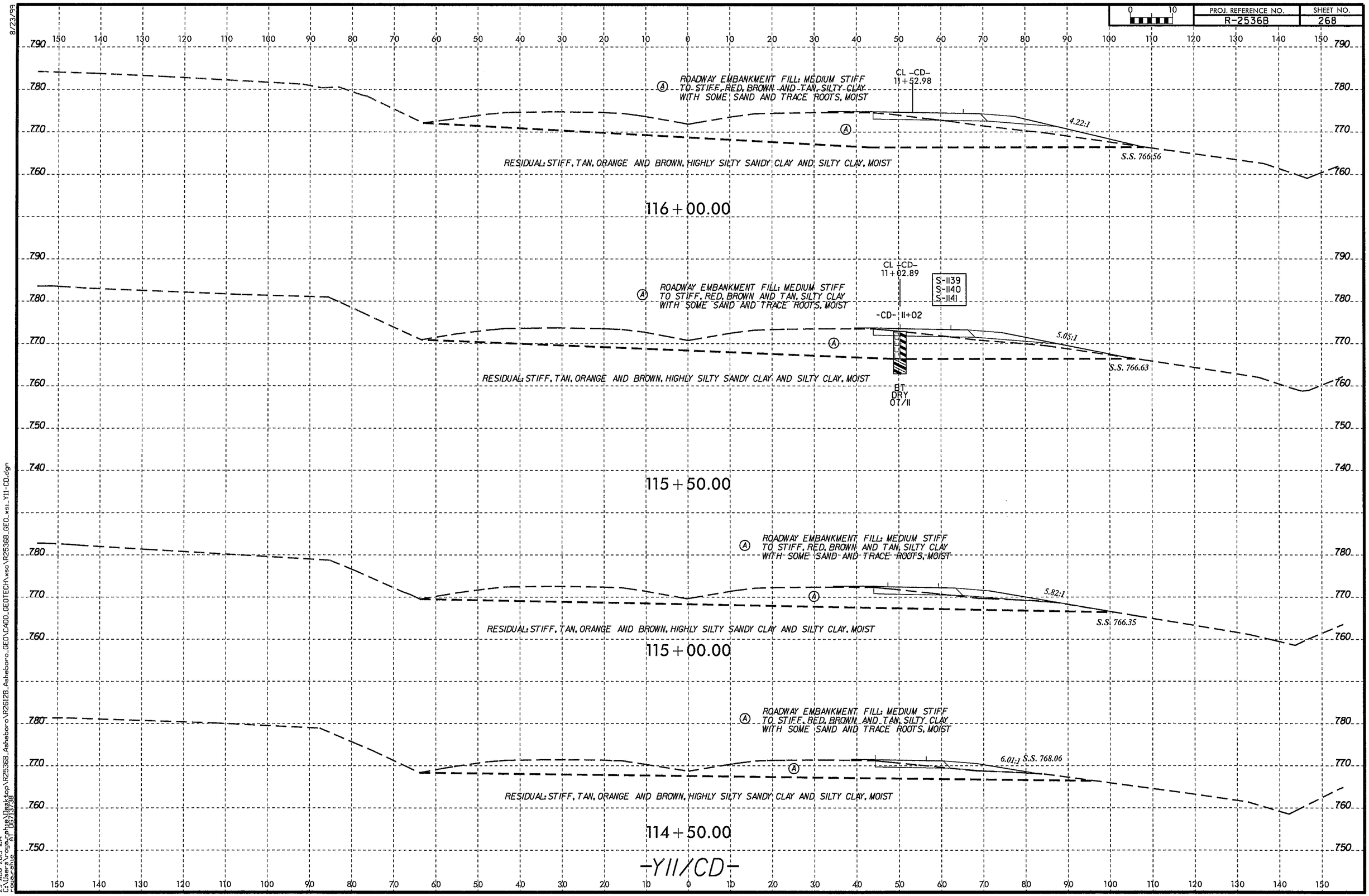

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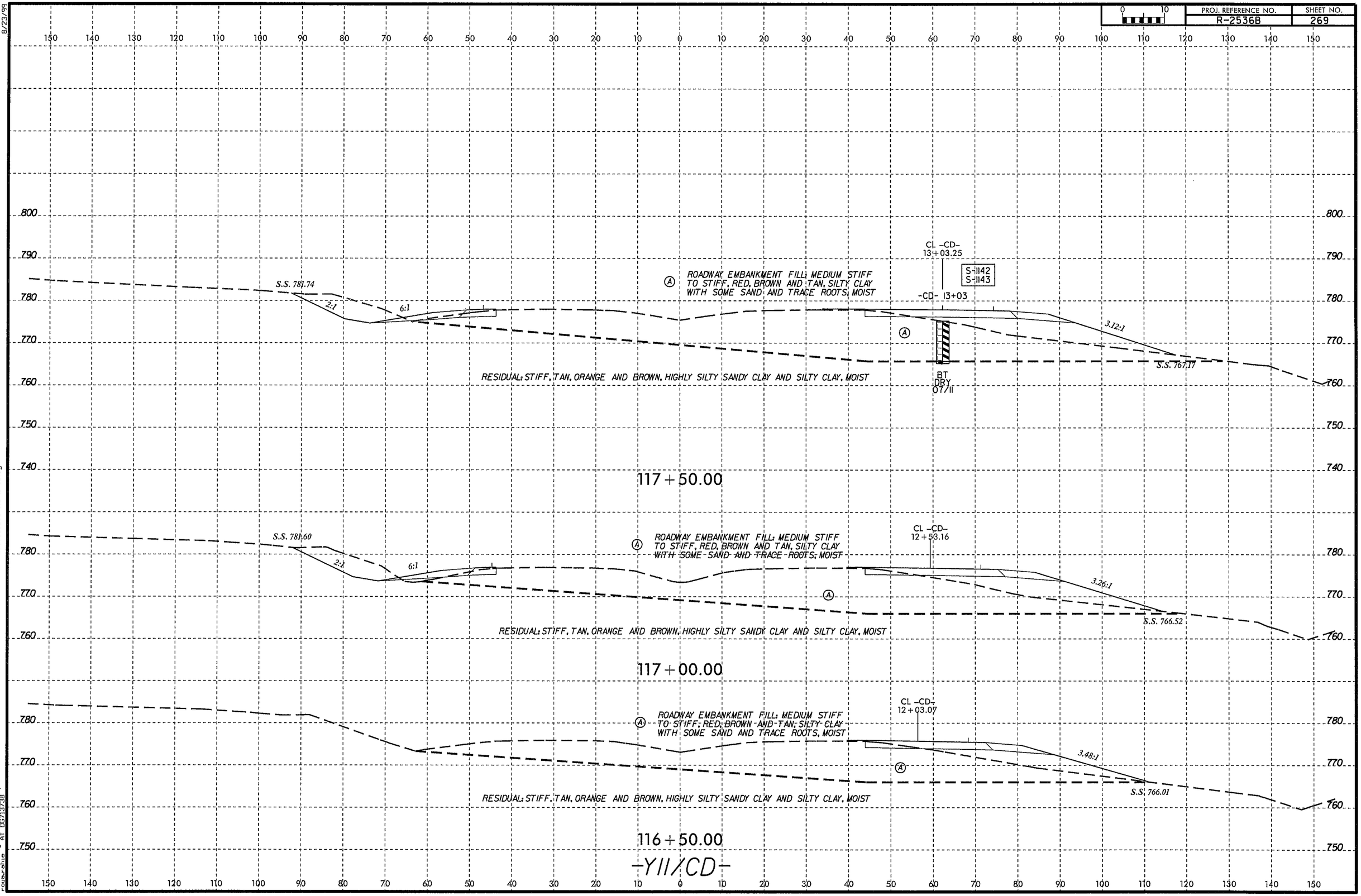
AT DG7/13/38

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	269



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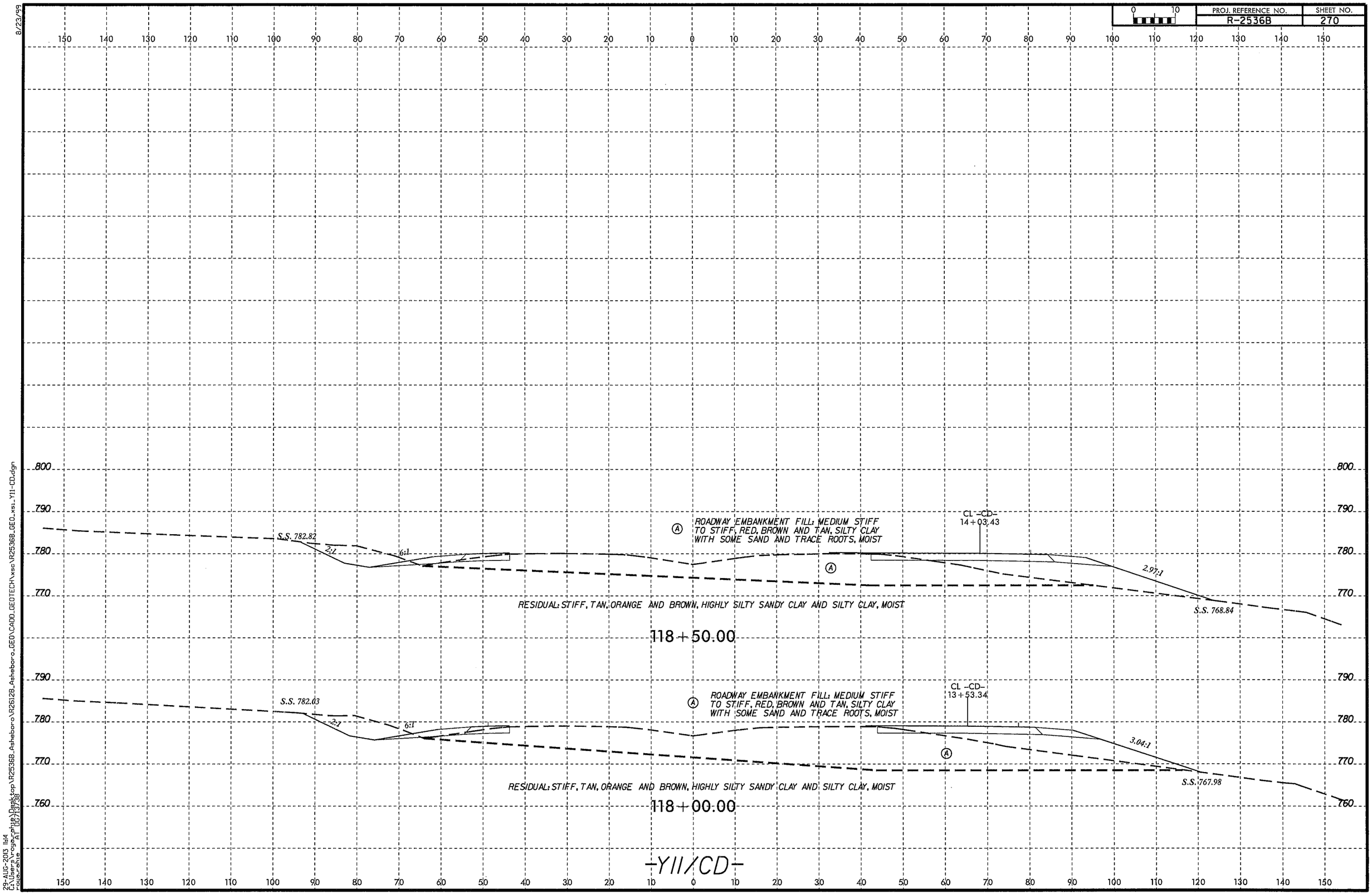

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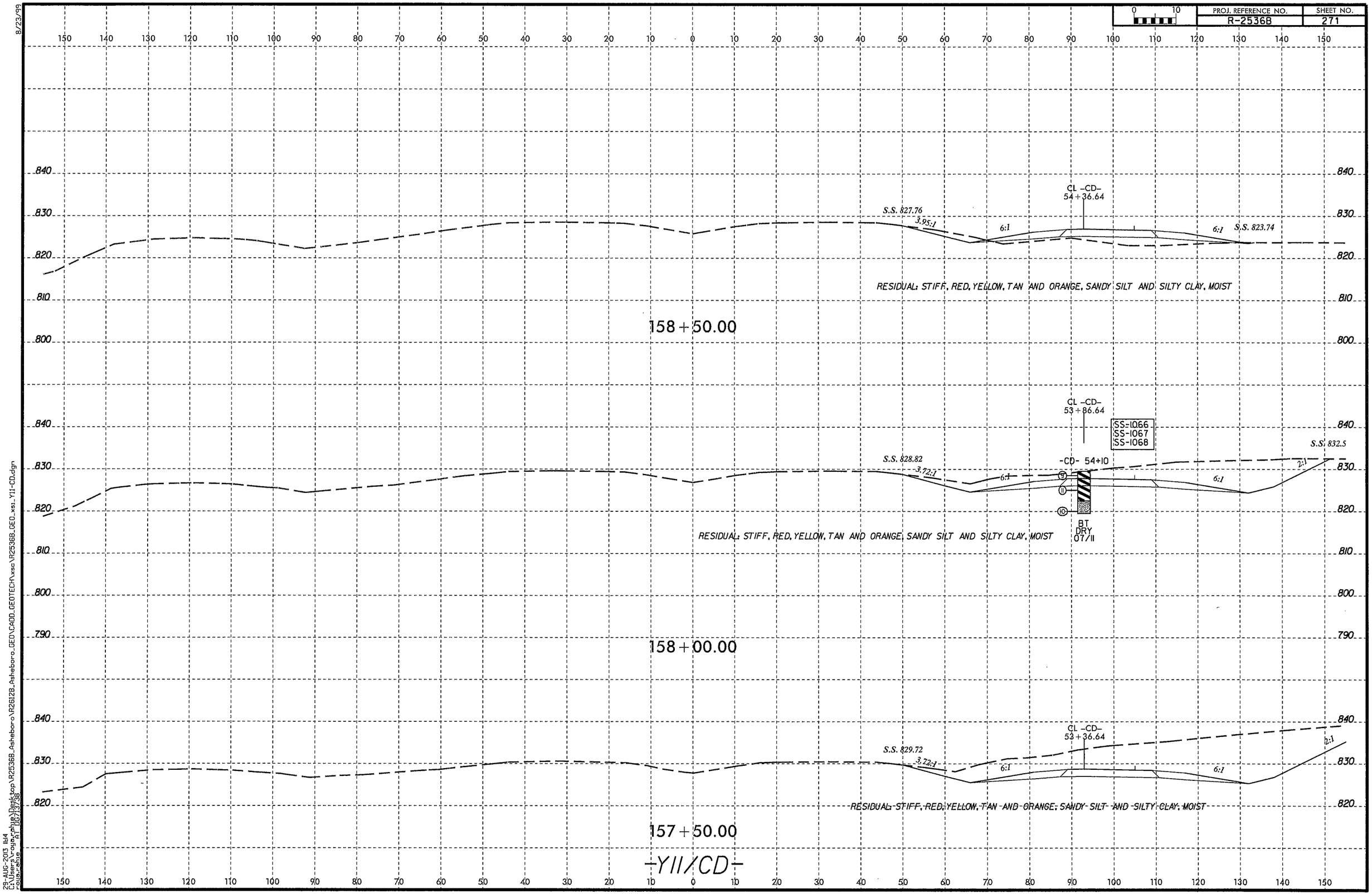
A1 D5713738



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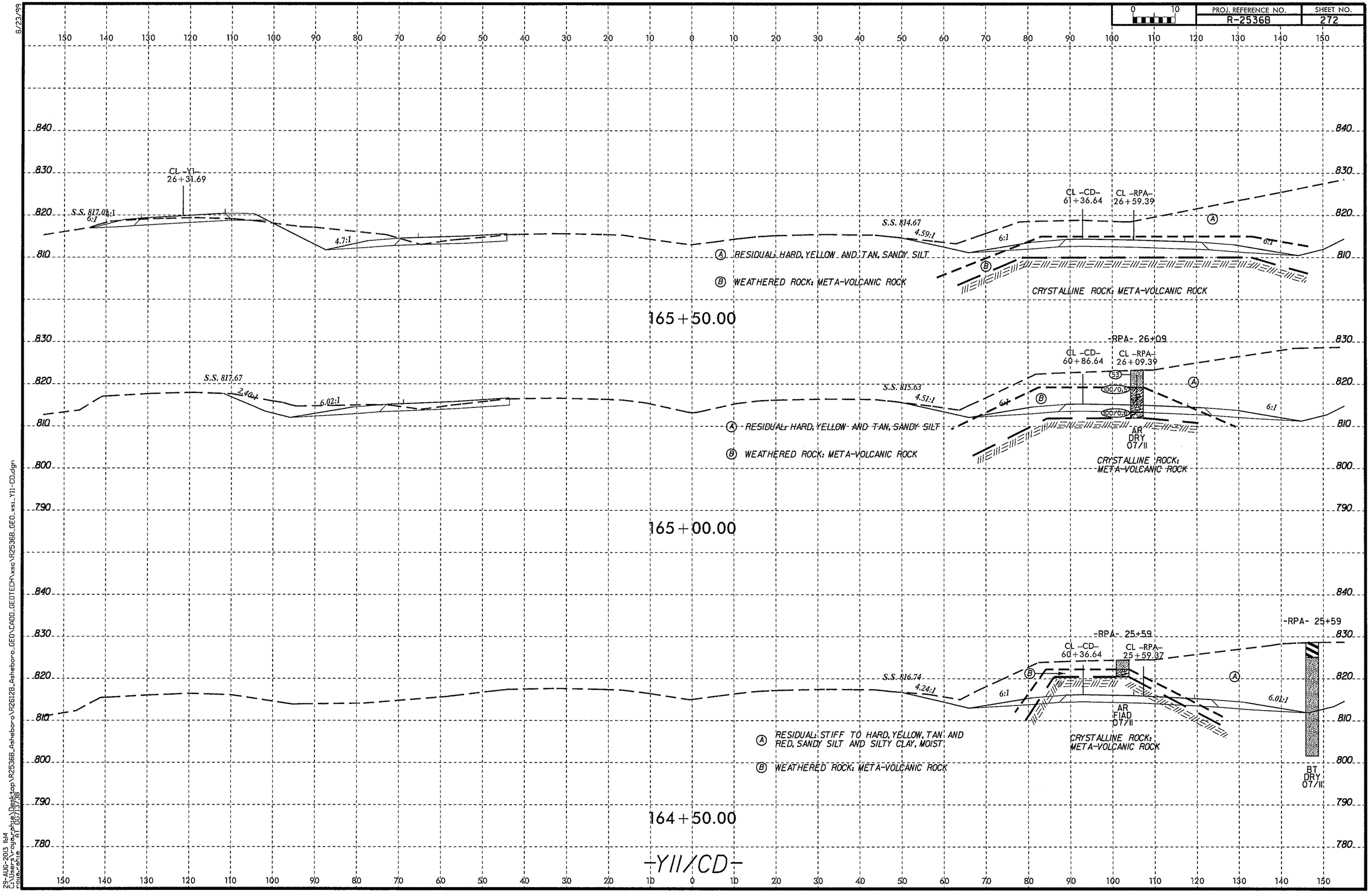
A1 06/13/38



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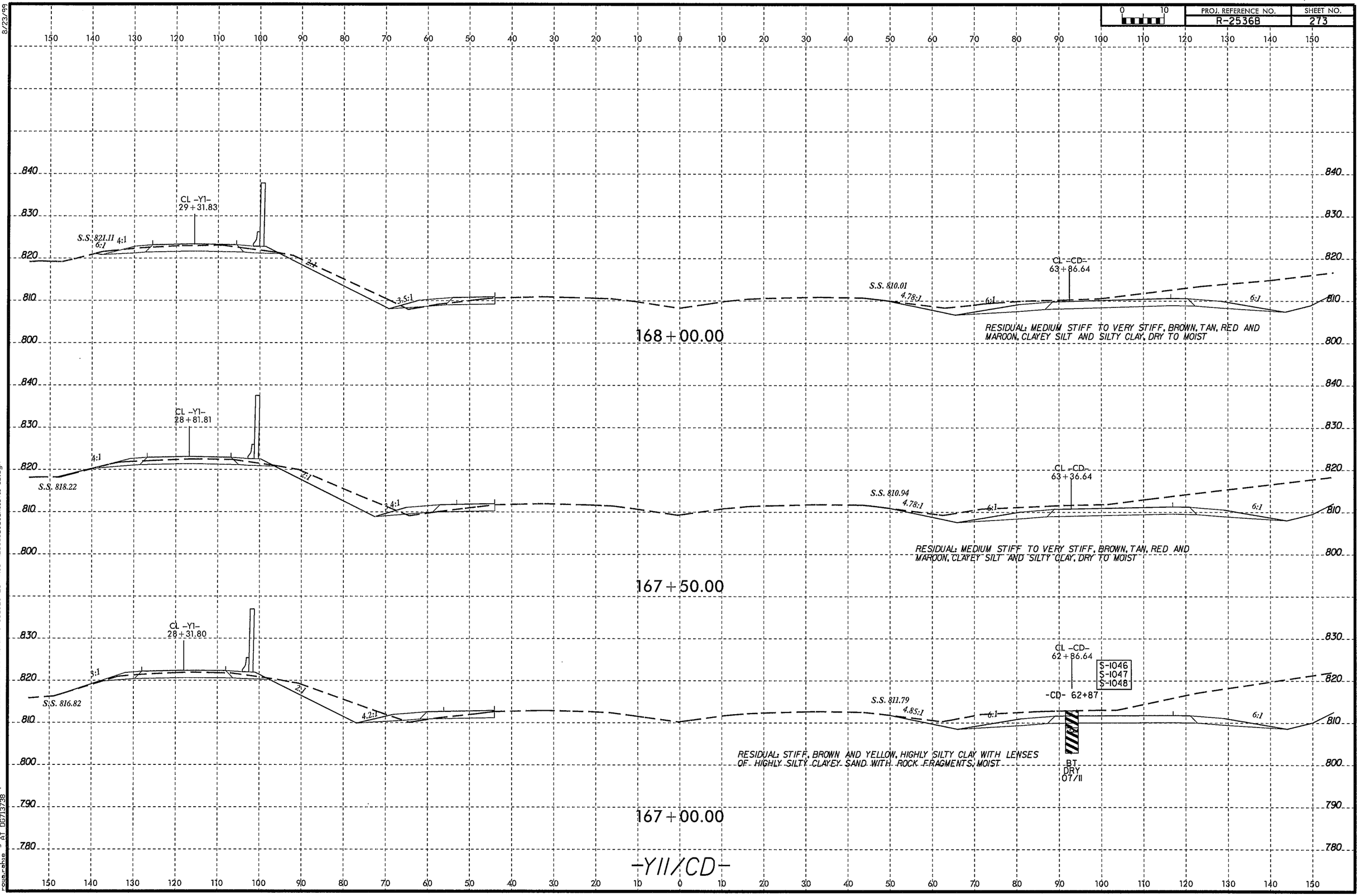
A1 D8/713/38

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	273



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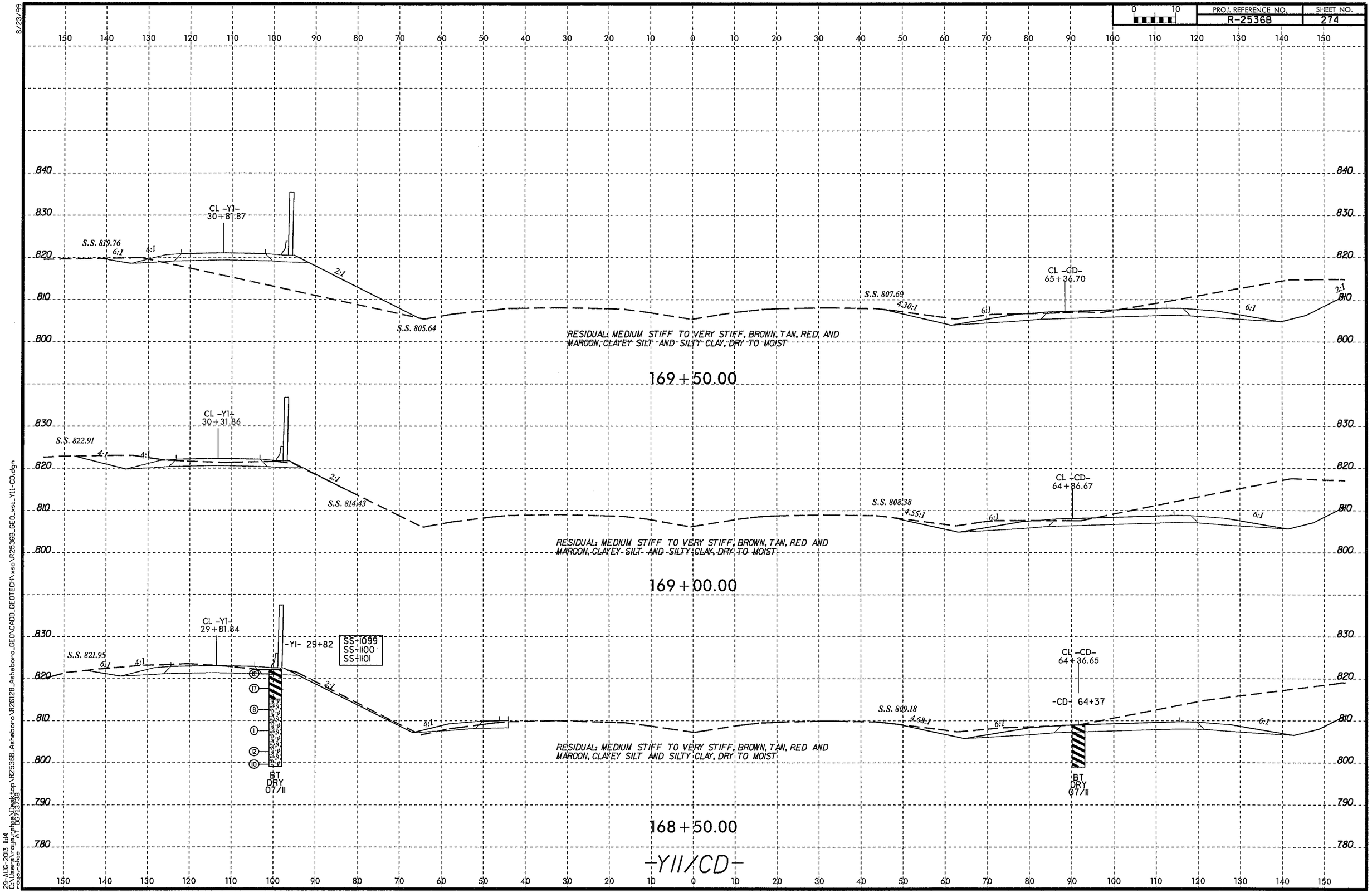
roger.phillips AT DOT13738



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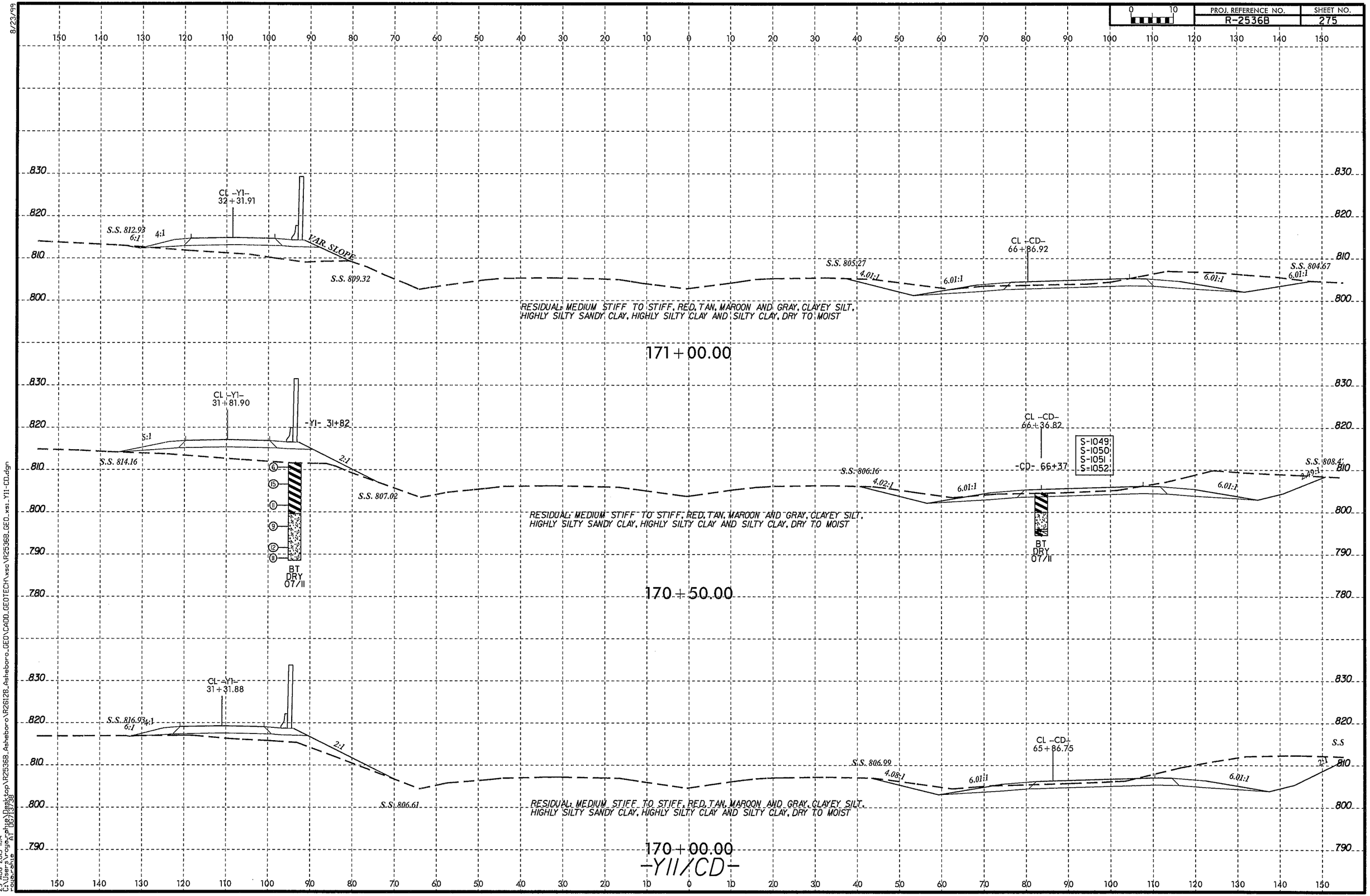
roya.rehal AT 06/13/38



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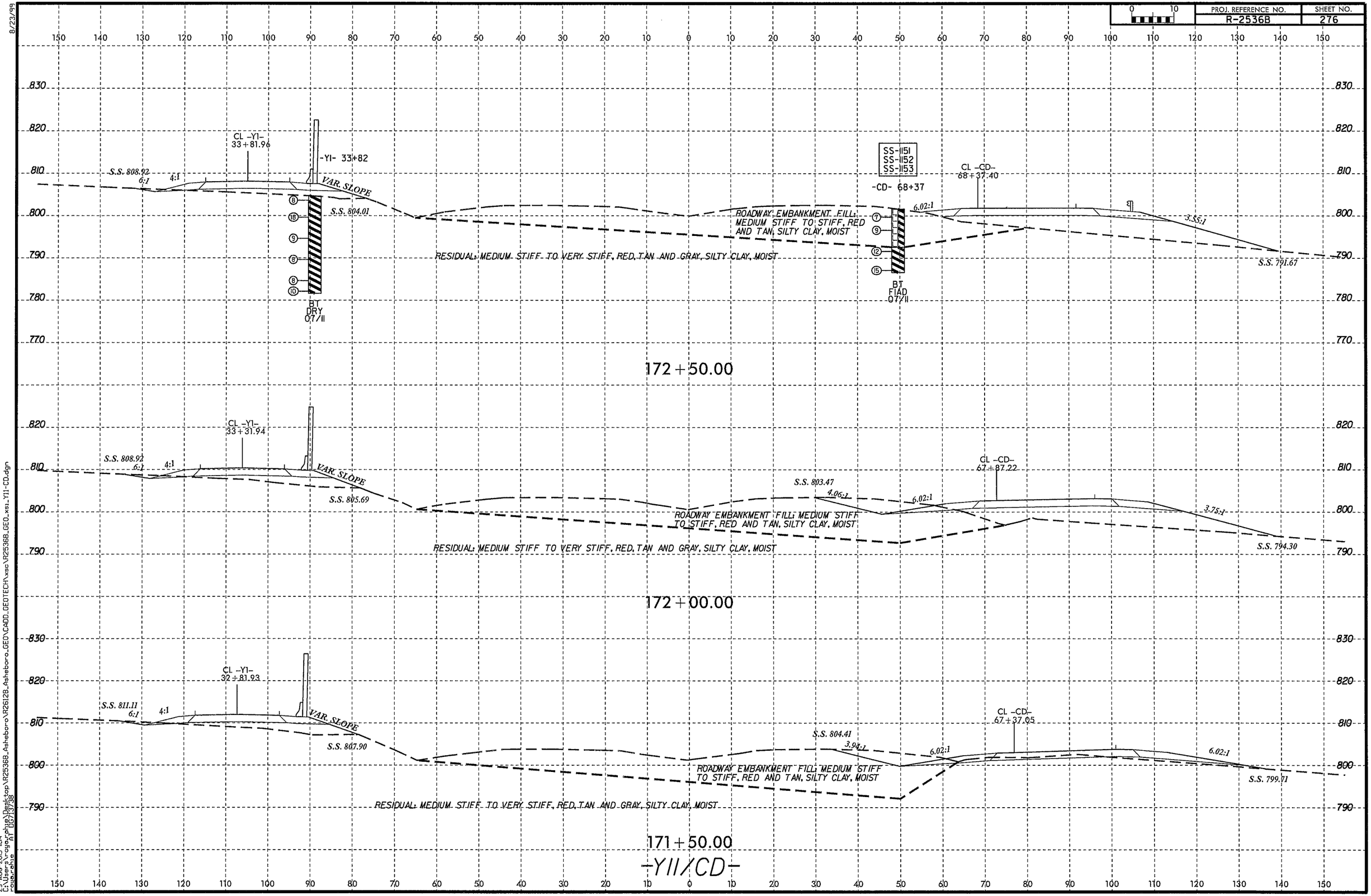
AT DS7/3/38



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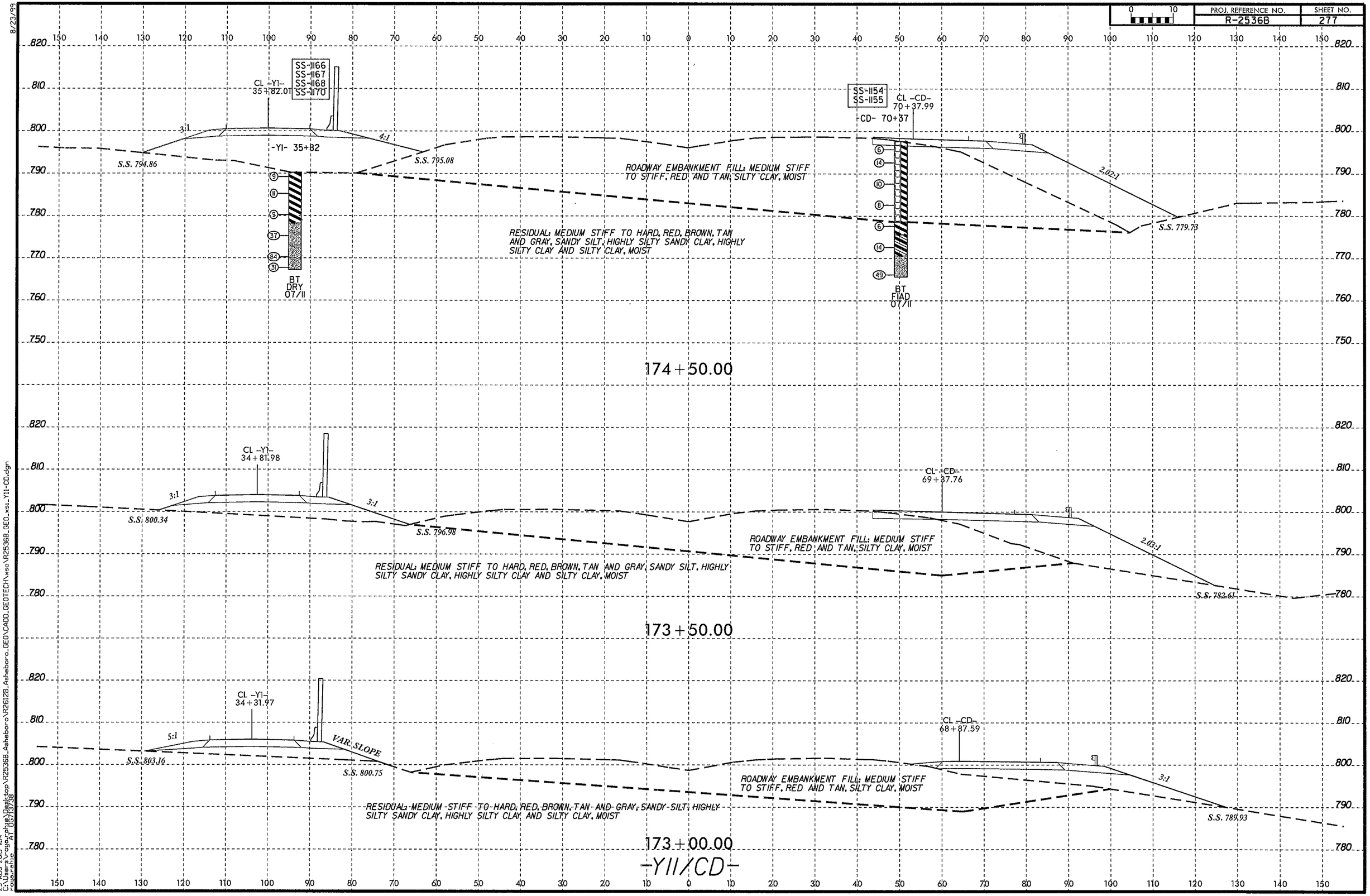

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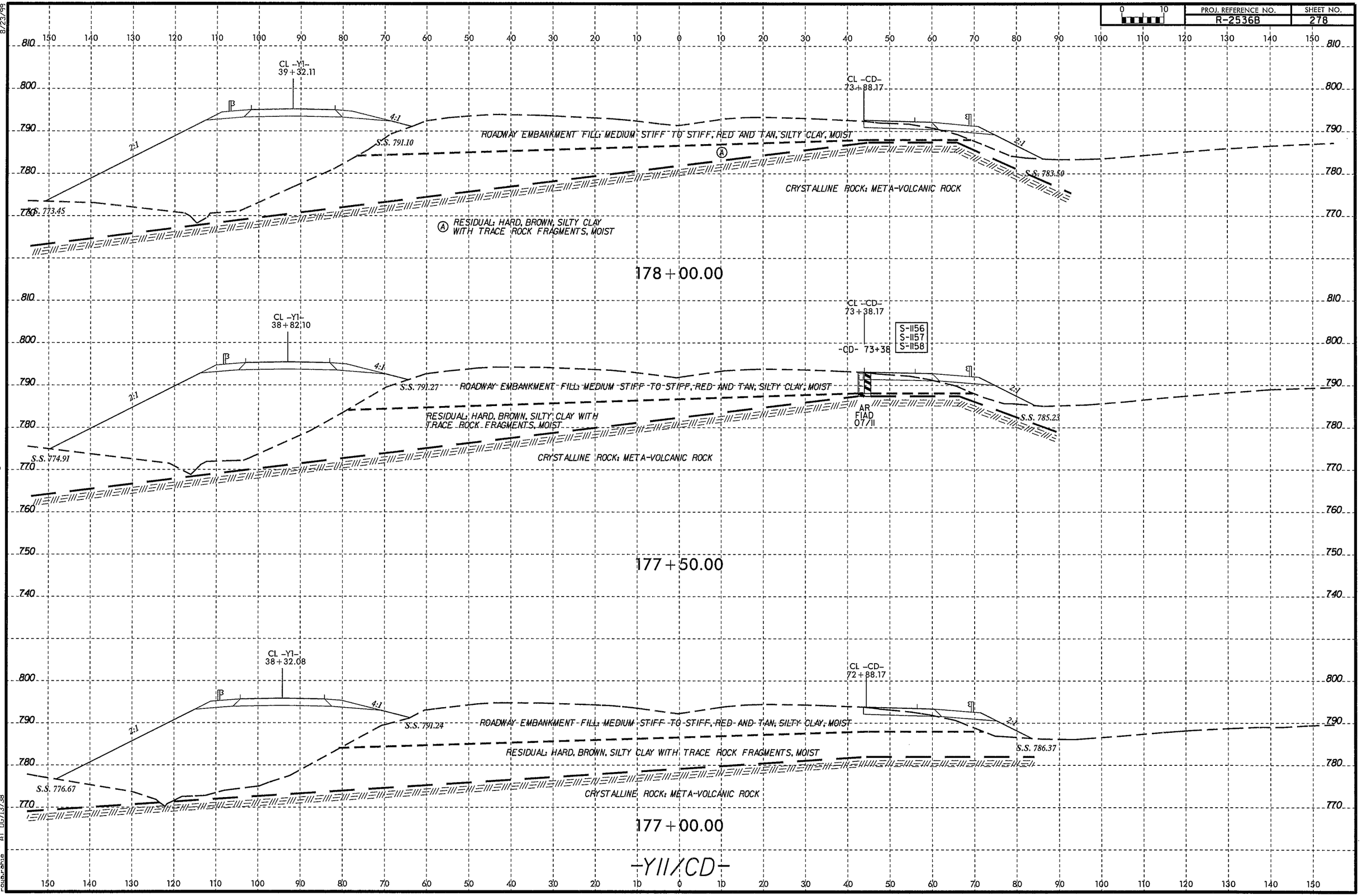

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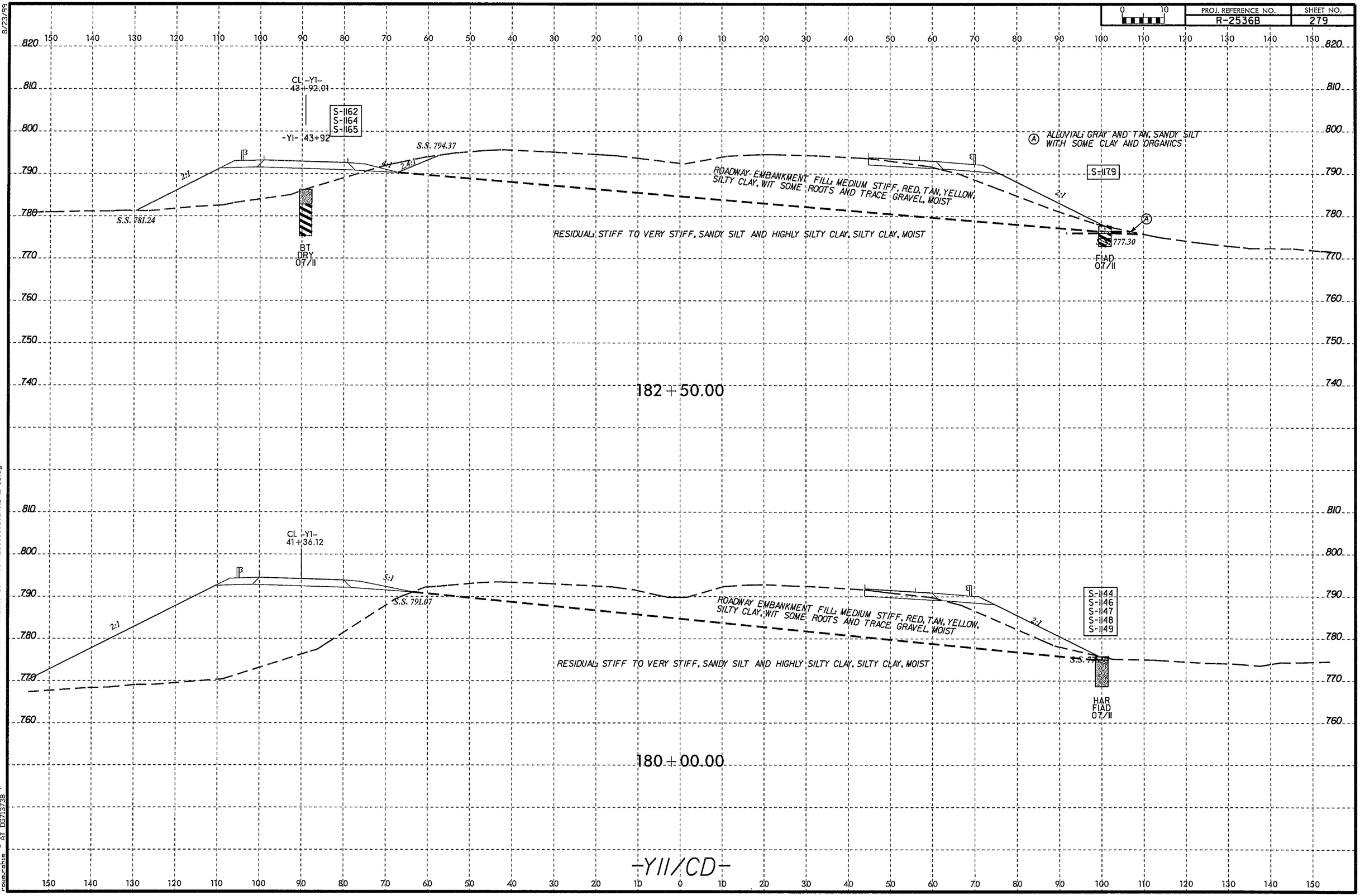
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	279



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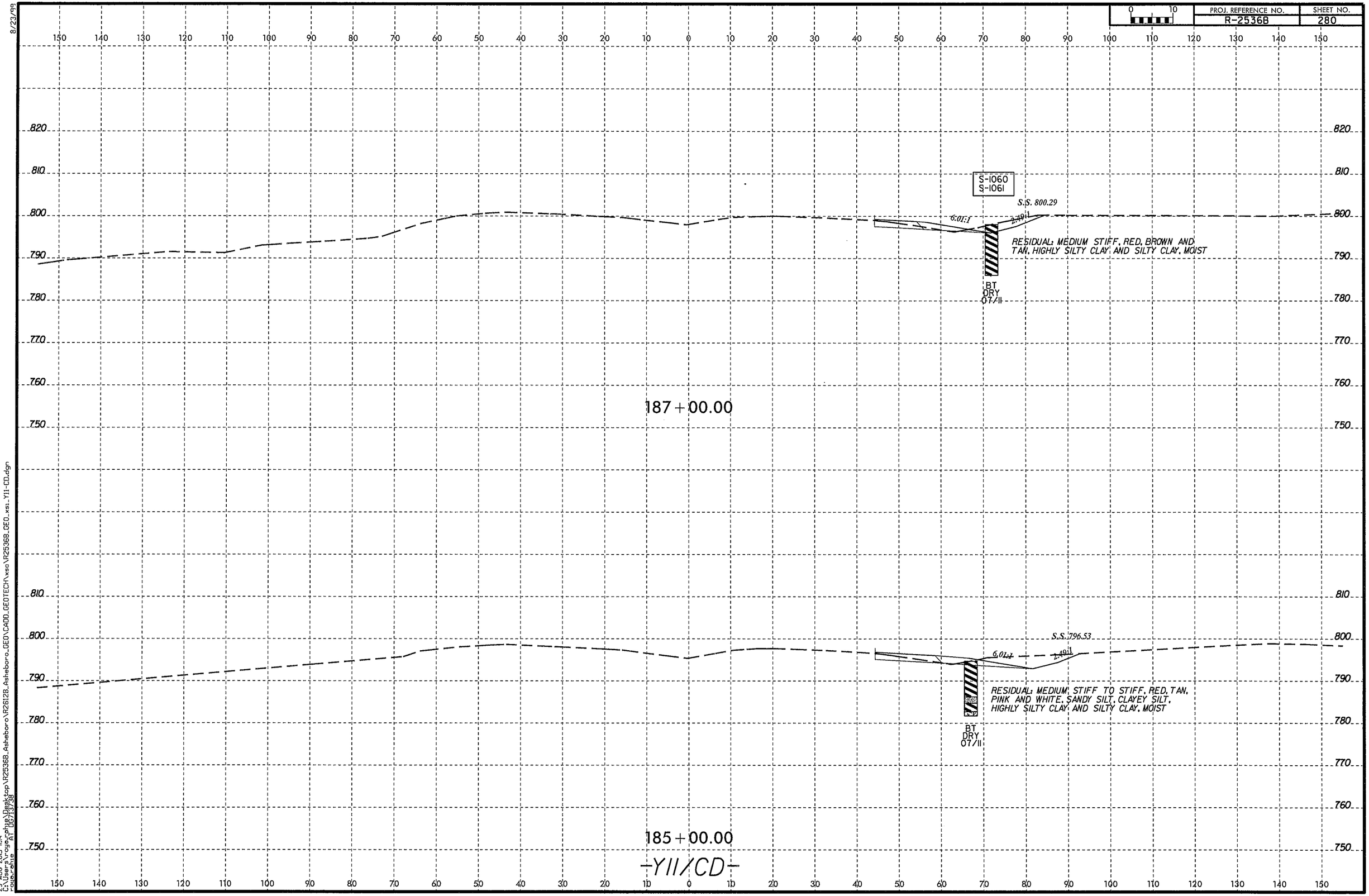
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	280



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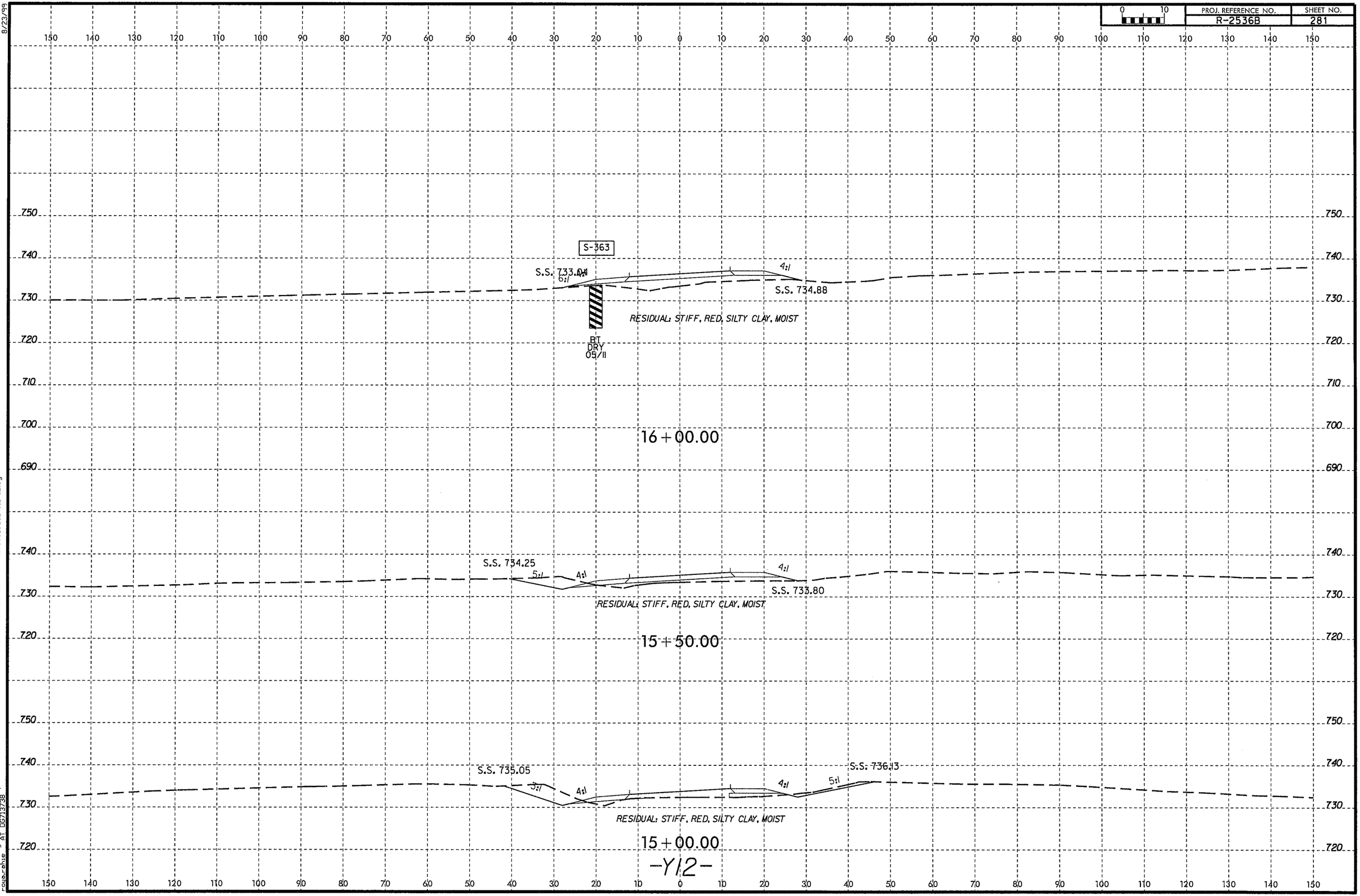

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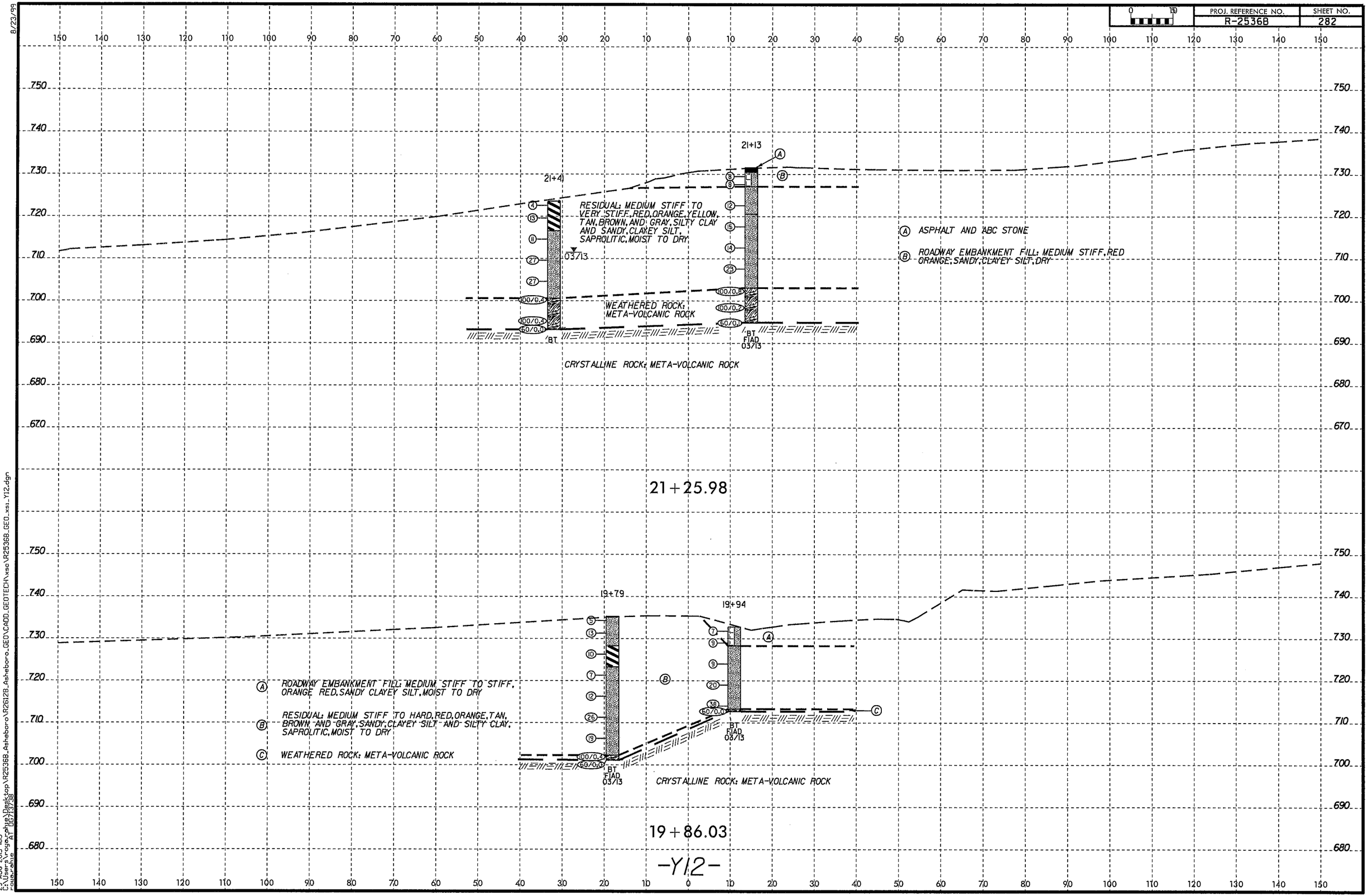
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	282



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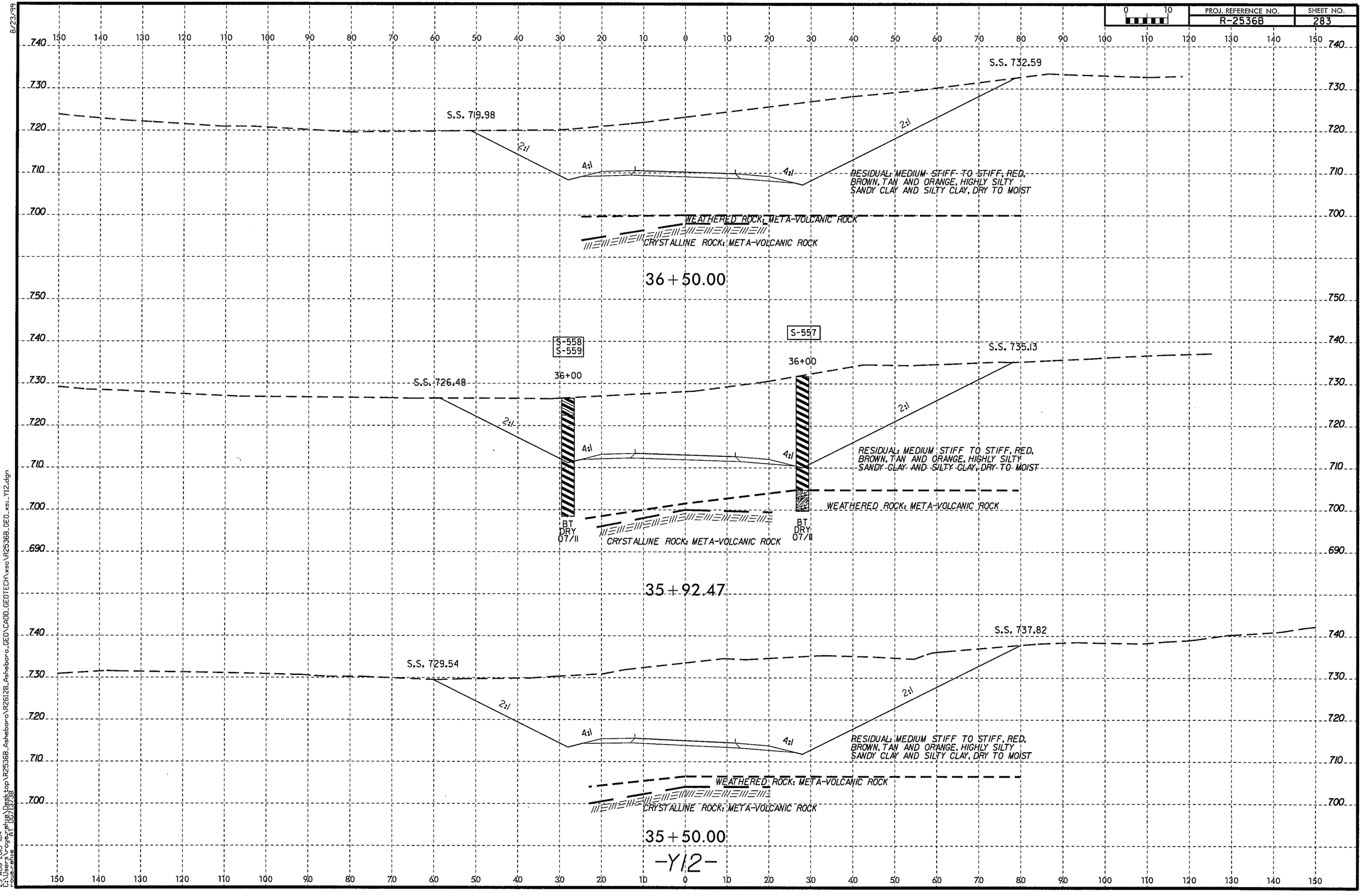
AT 06/13/38

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	283



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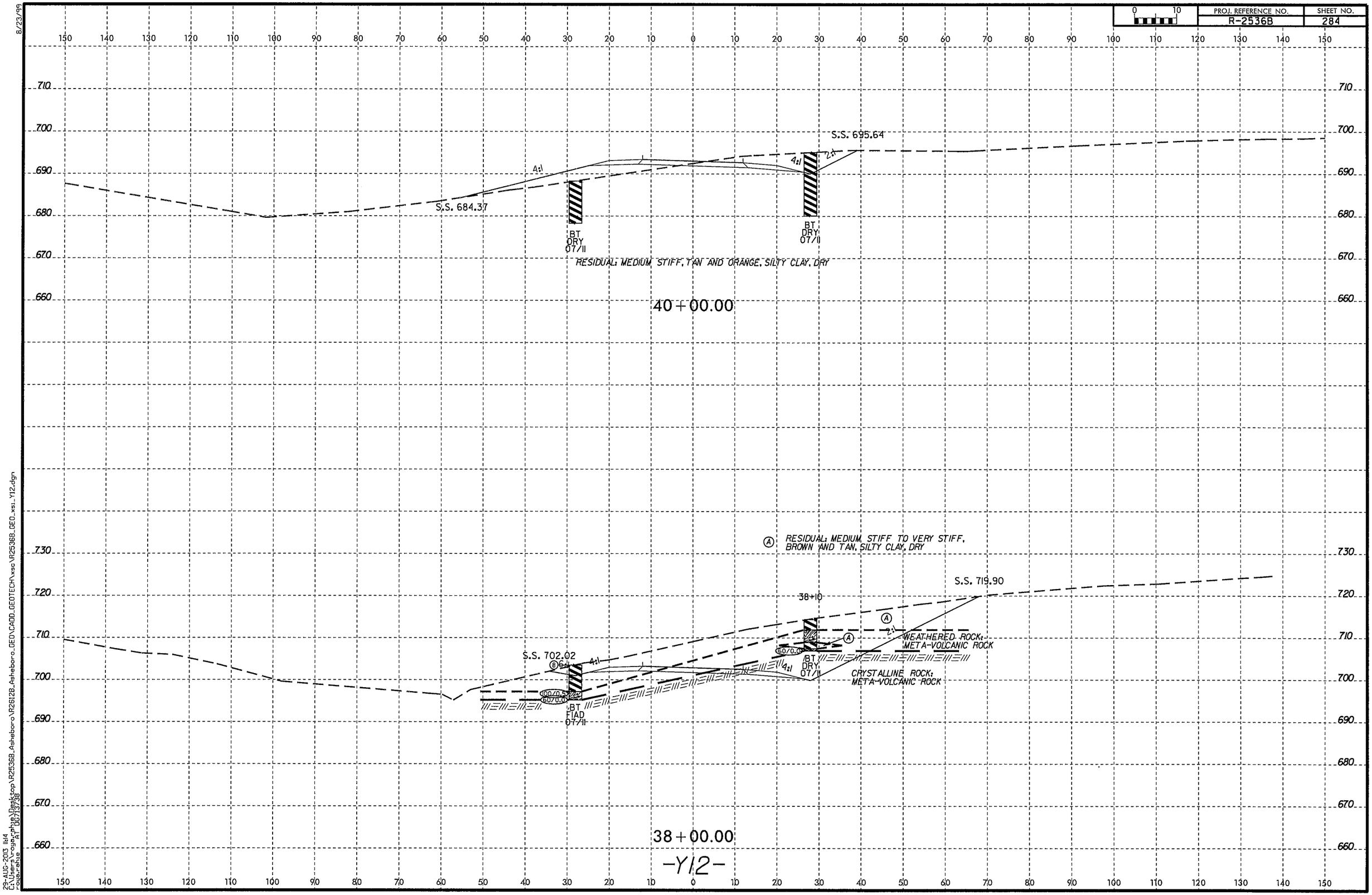
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SHEET NO.
284
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4:1
BT
DRY
07/11
S.S. 695.64
2:1
RESIDUAL: MEDIUM STIFF, TAN AND ORANGE, SILTY CLAY, DRY
40+00.00
RESIDUAL: MEDIUM STIFF TO VERY STIFF, BROWN AND TAN, SILTY CLAY, DRY
S.S. 719.90
38+10
WEATHERED ROCK: META-VOLCANIC ROCK
CRYSTALLINE ROCK: META-VOLCANIC ROCK
S.S. 702.02
BT
FIAD
07/11
38+00.00
-Y12-
8/23/99
29-AUG-2013 11:14
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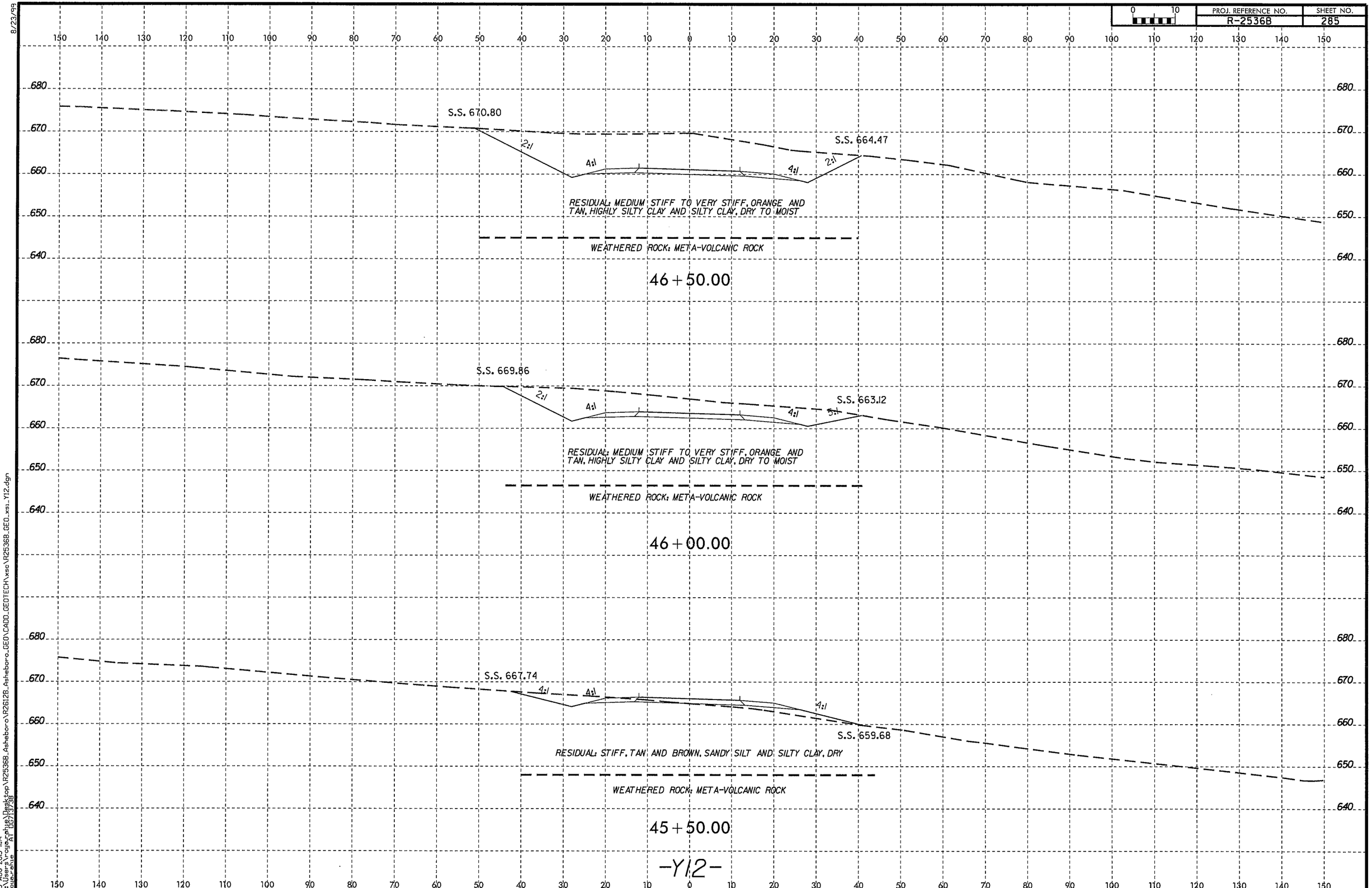
AT 06/19/98



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PROJ. REFERENCE NO.	SHEET NO.
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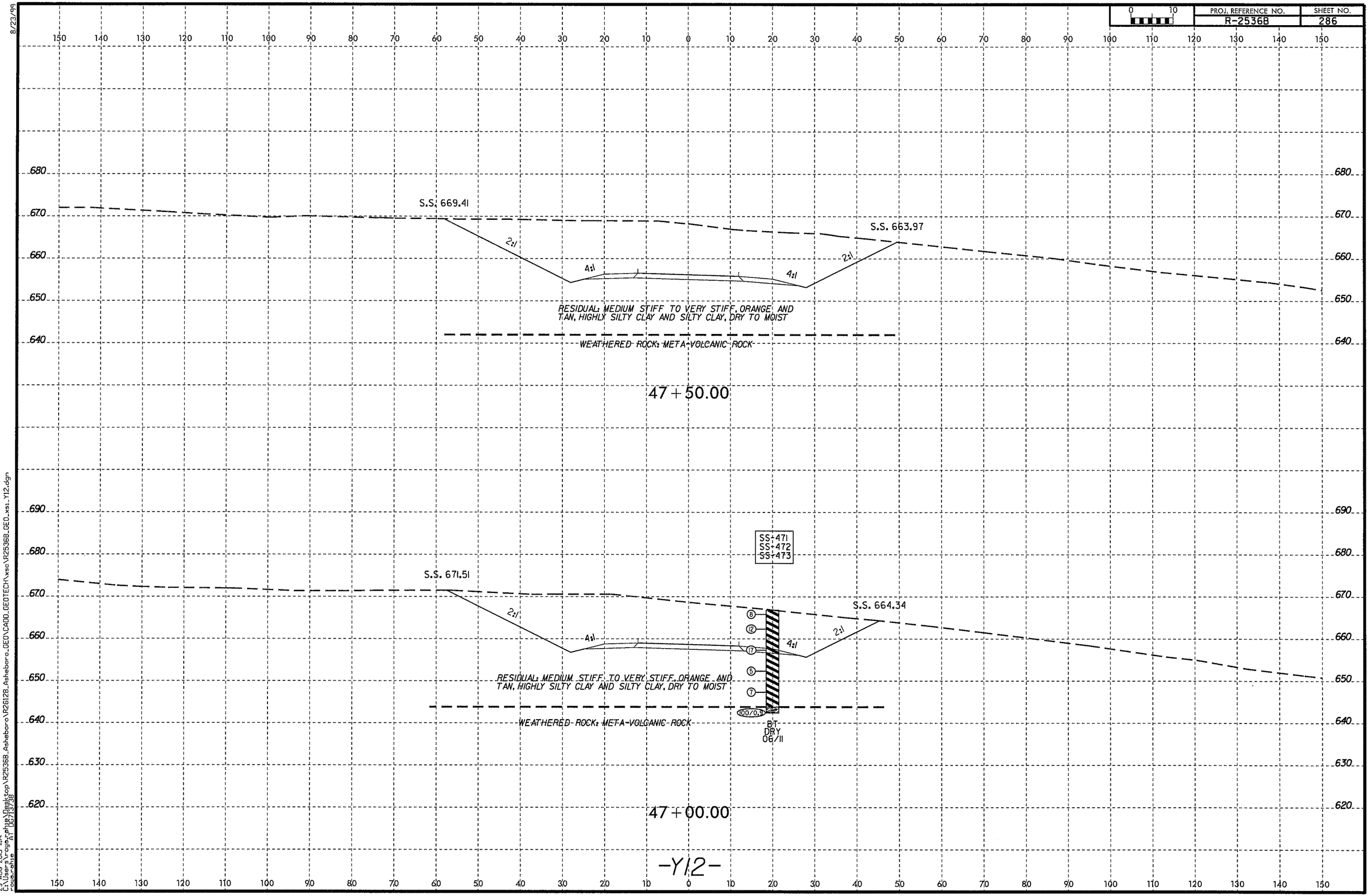

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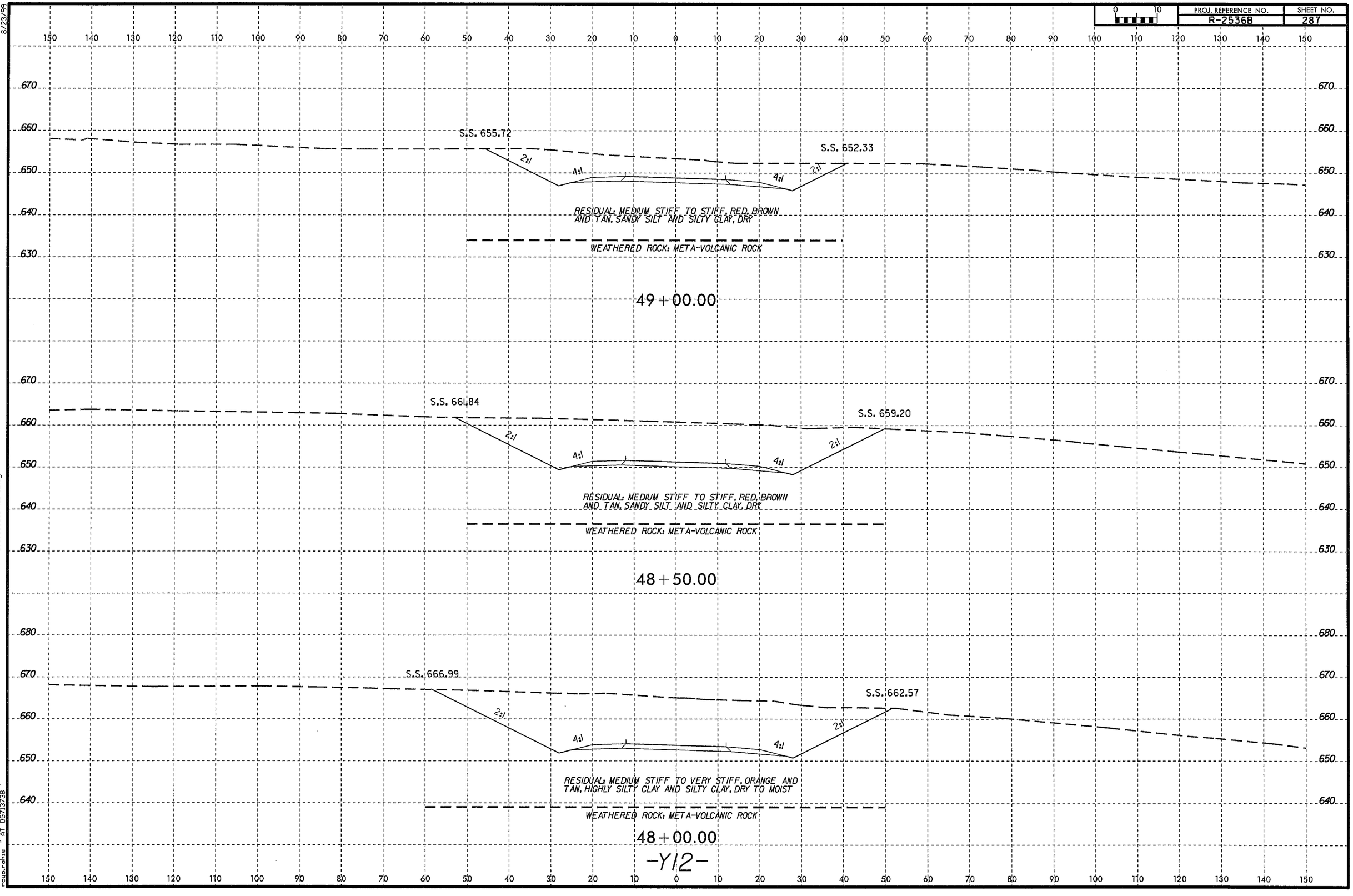

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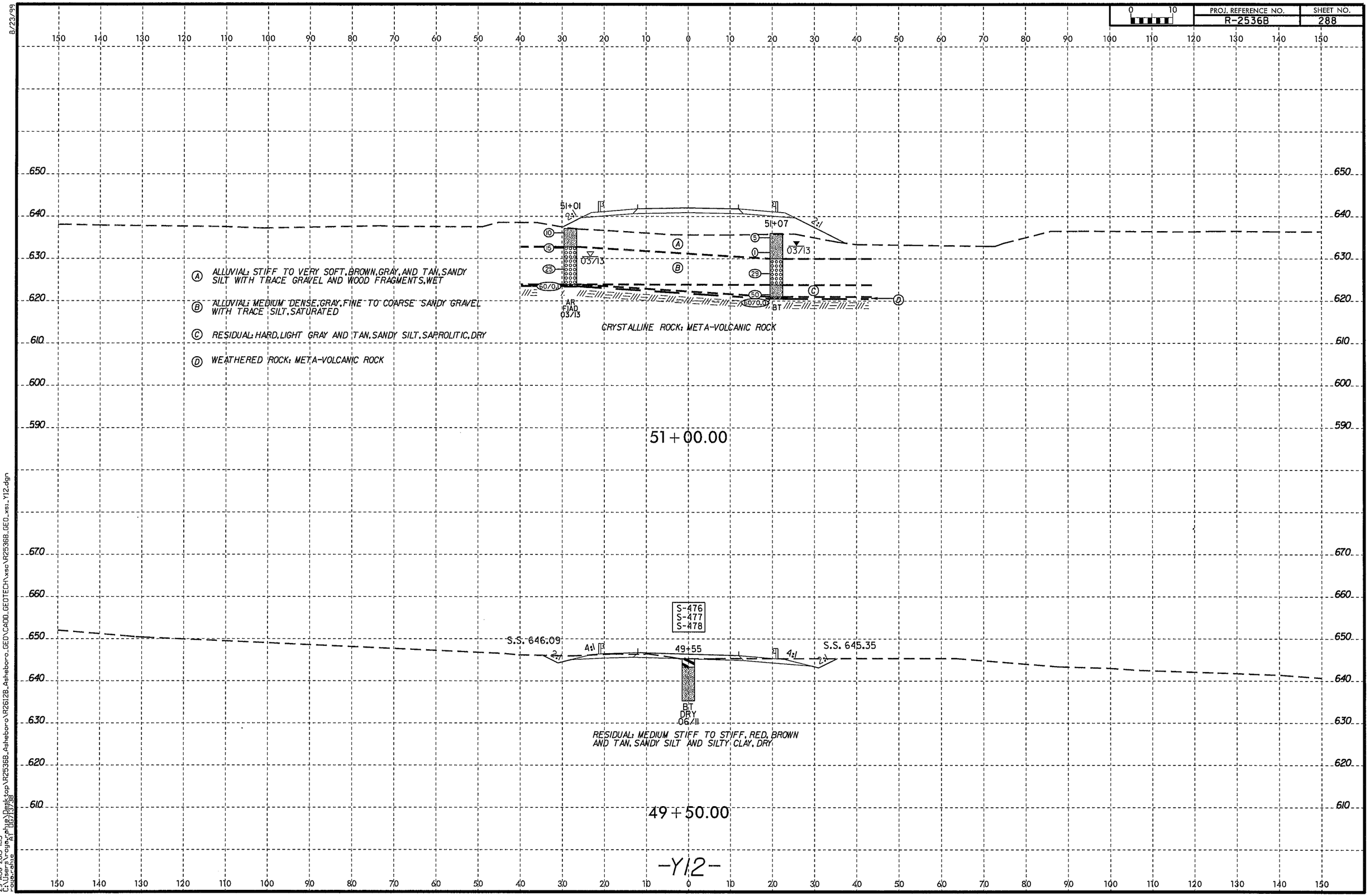

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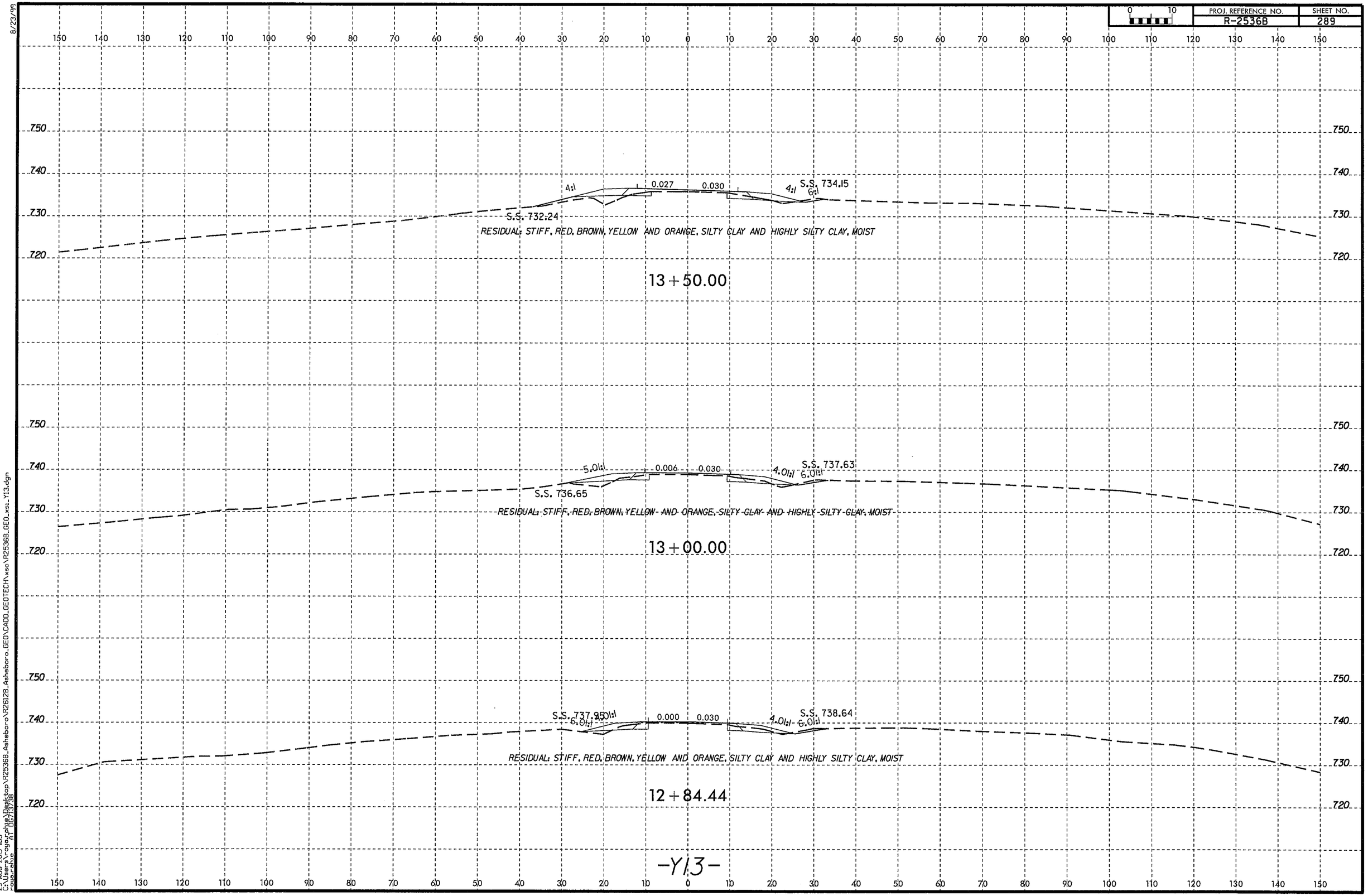
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	289



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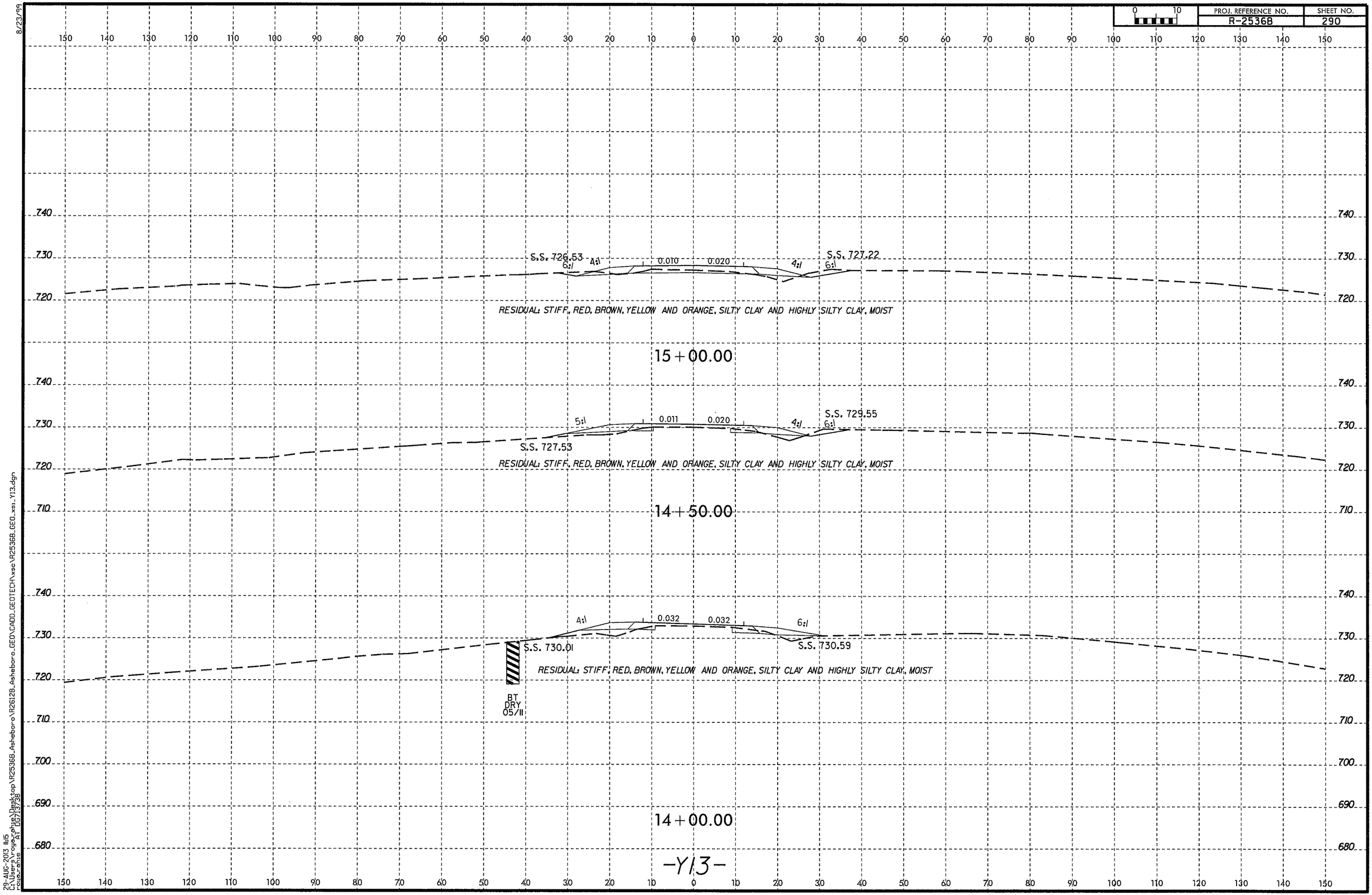

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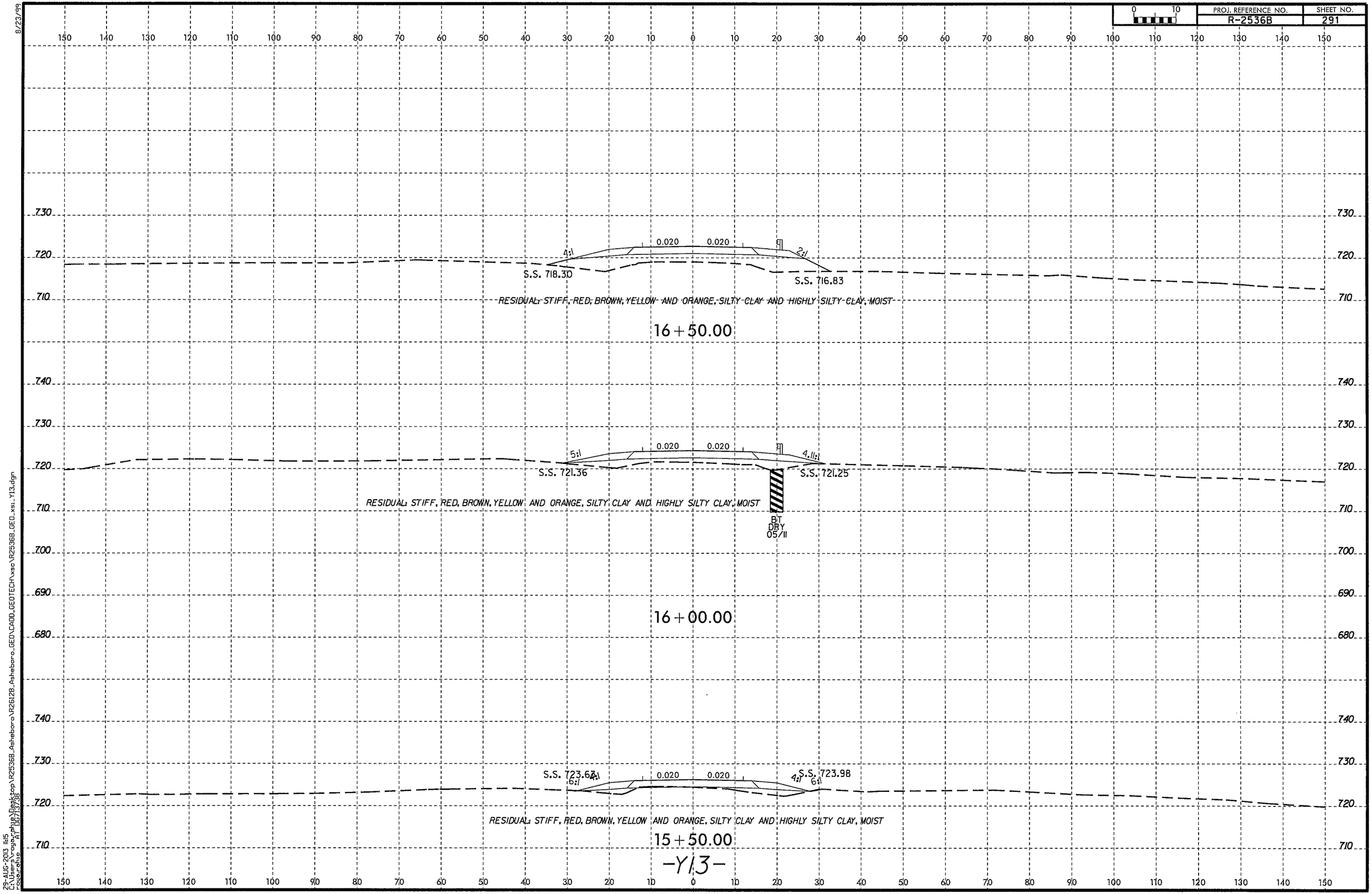
AT DS7137SS

PROJ. REFERENCE NO.	SHEET NO.
R-2536B	291



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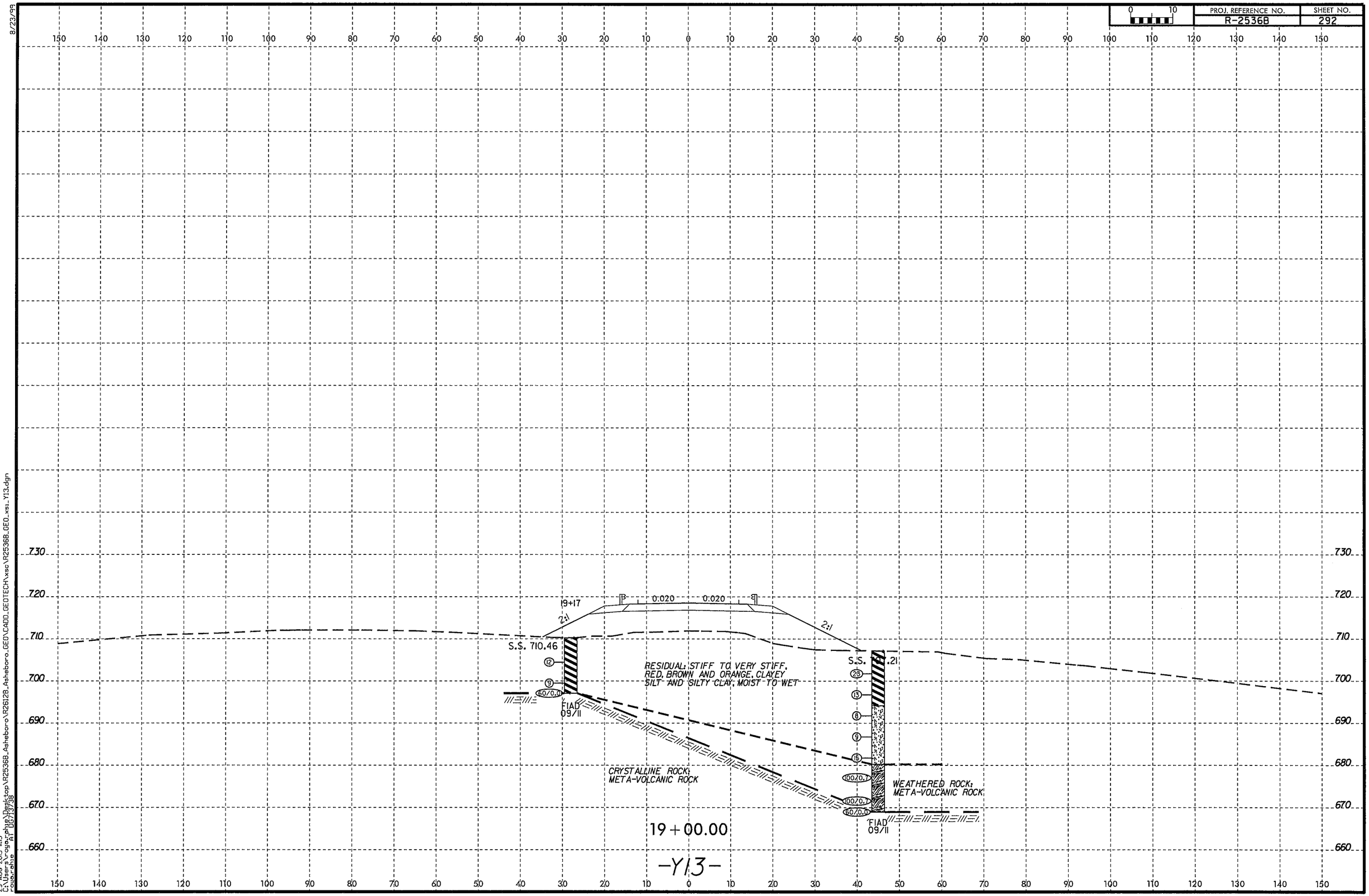

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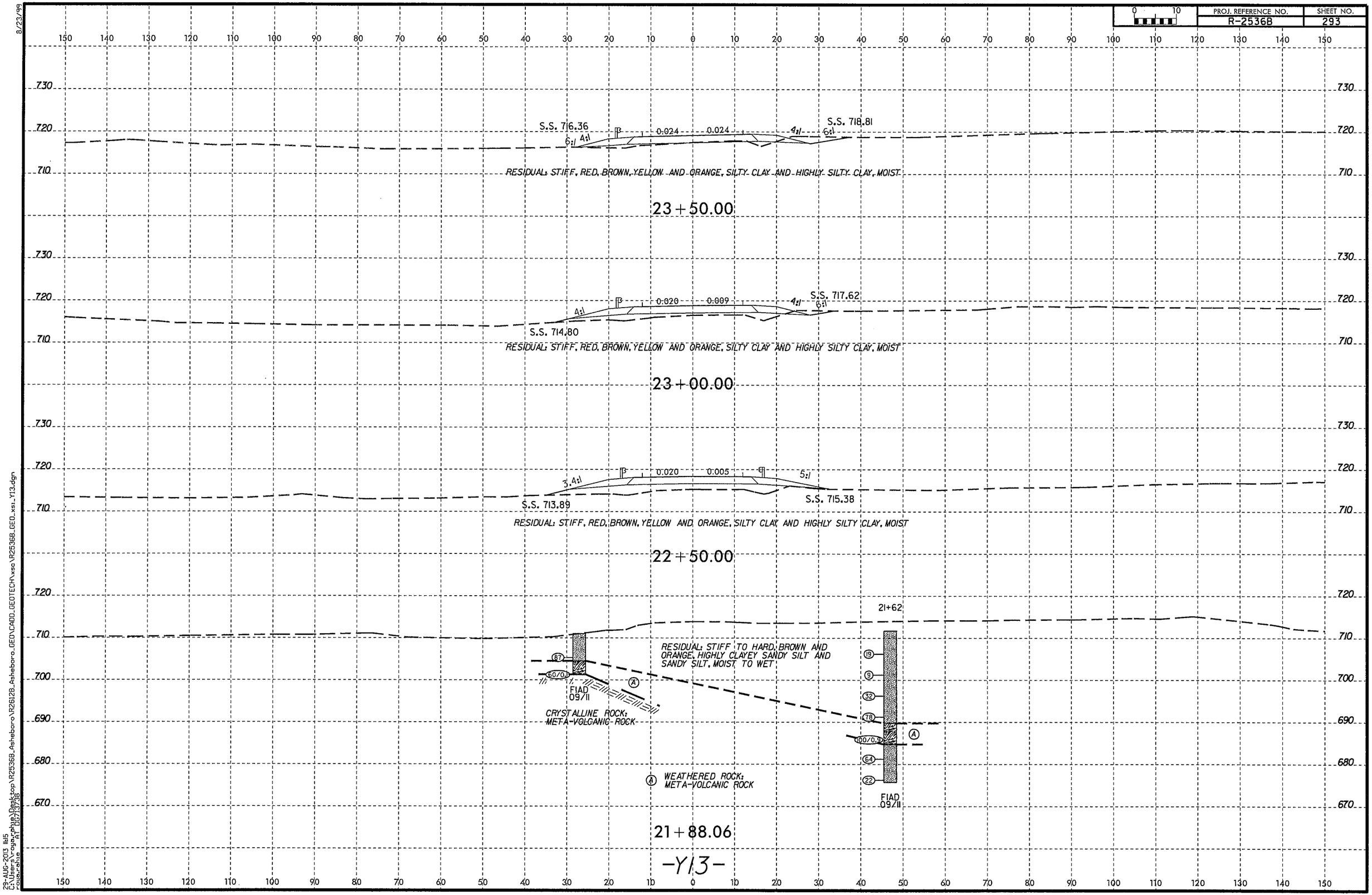

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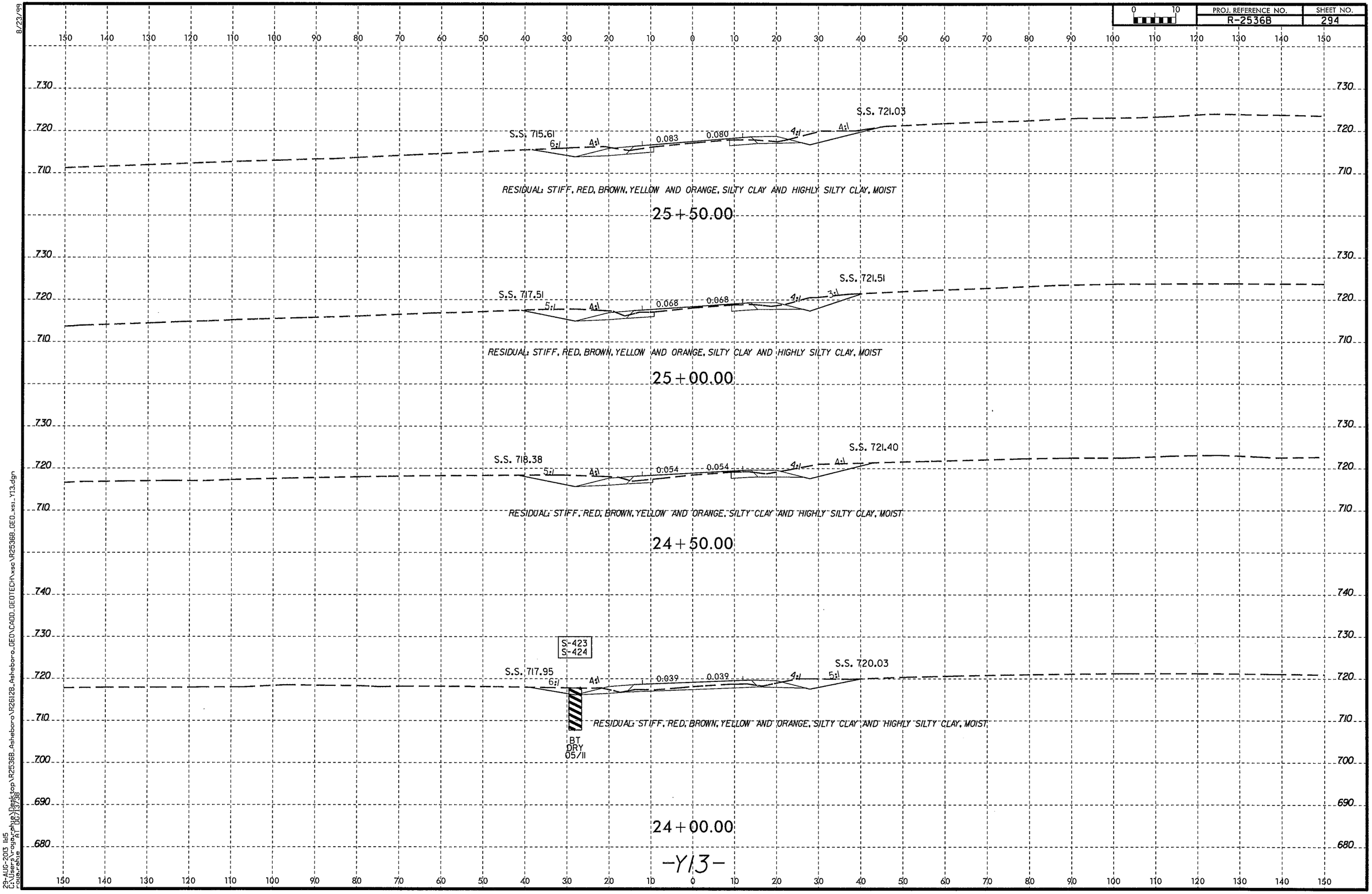

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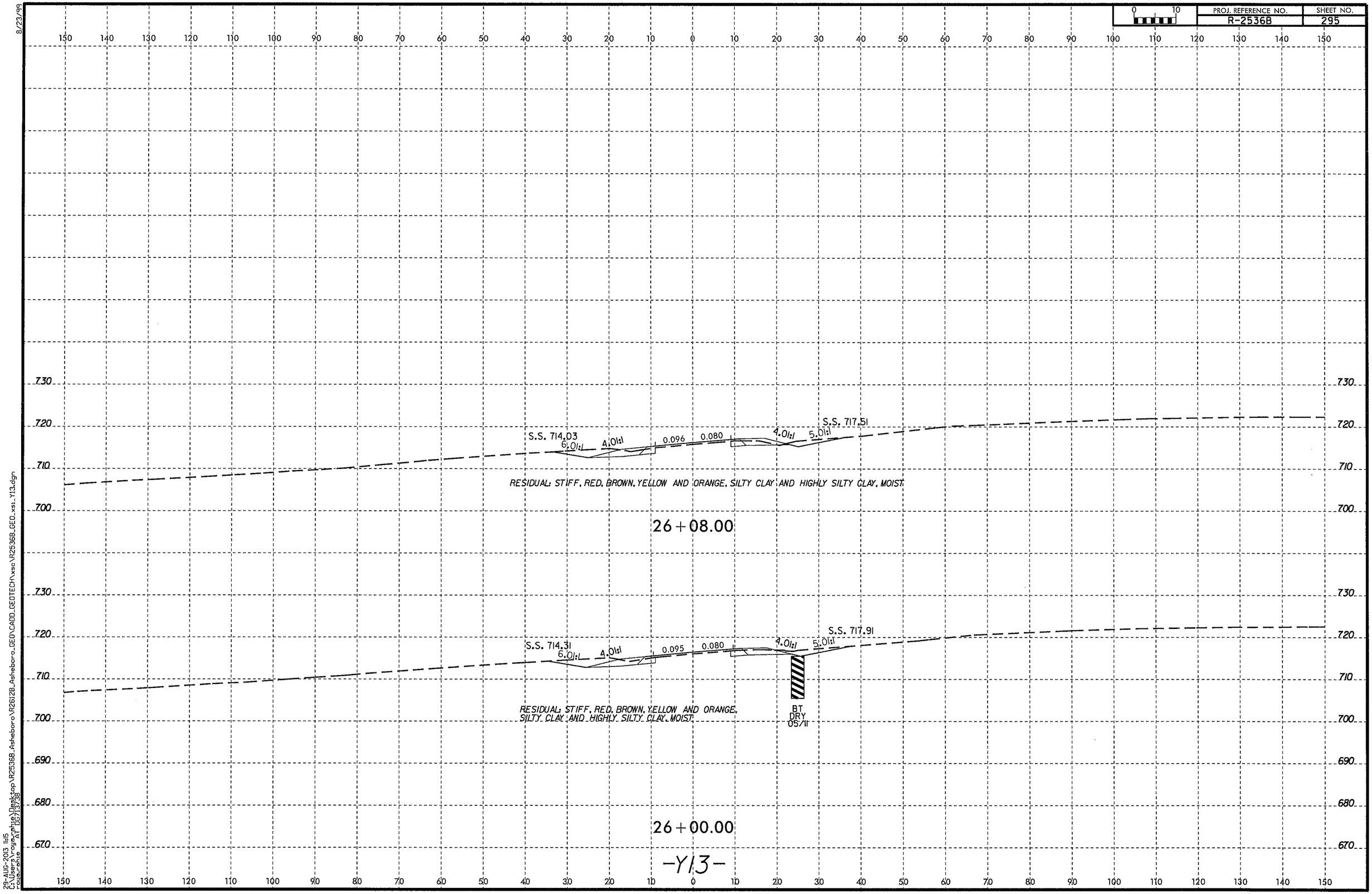
PROJ. REFERENCE NO.	SHEET NO.
R-2536B	295



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29-AUG-2013 11:15
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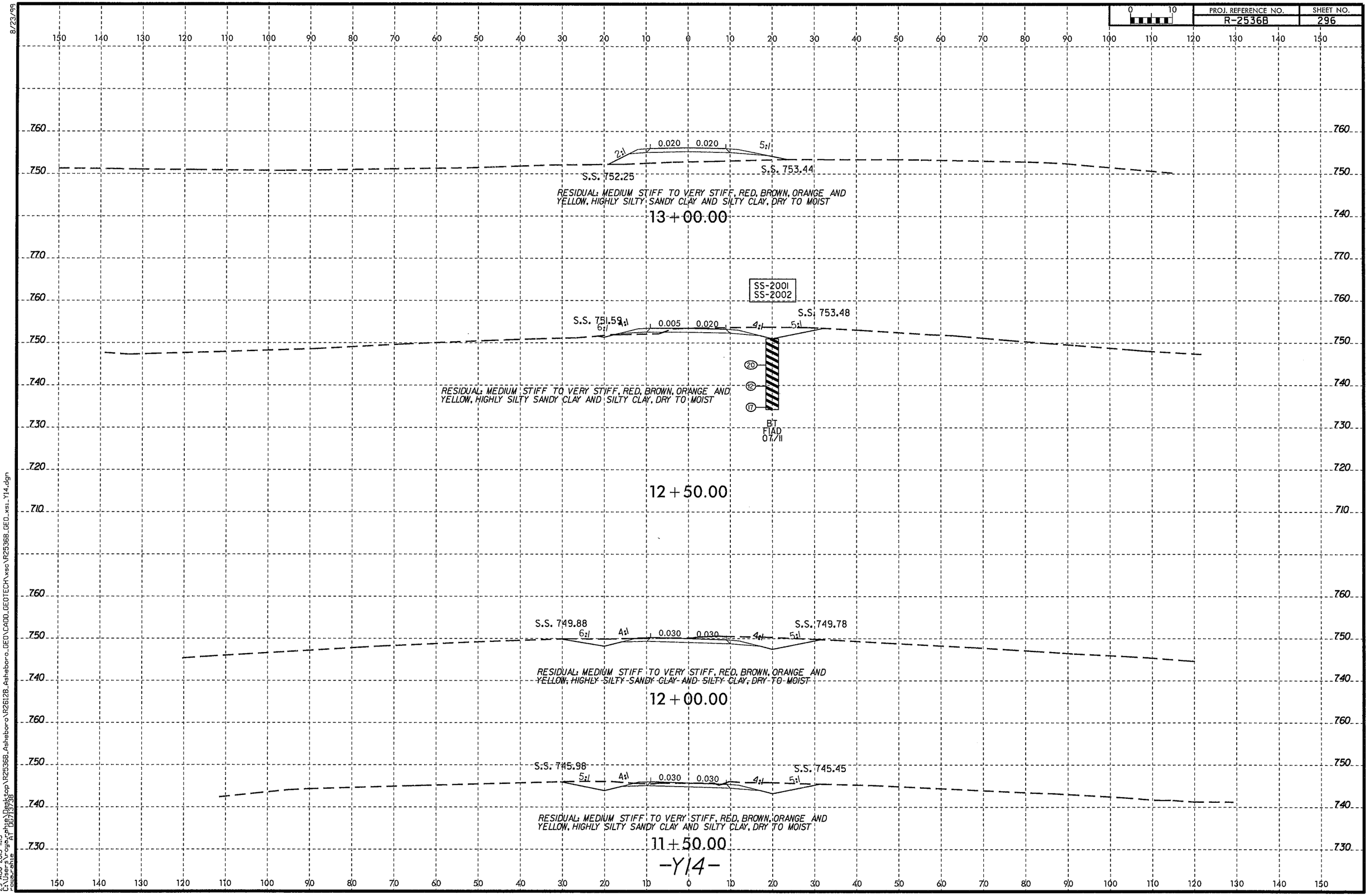

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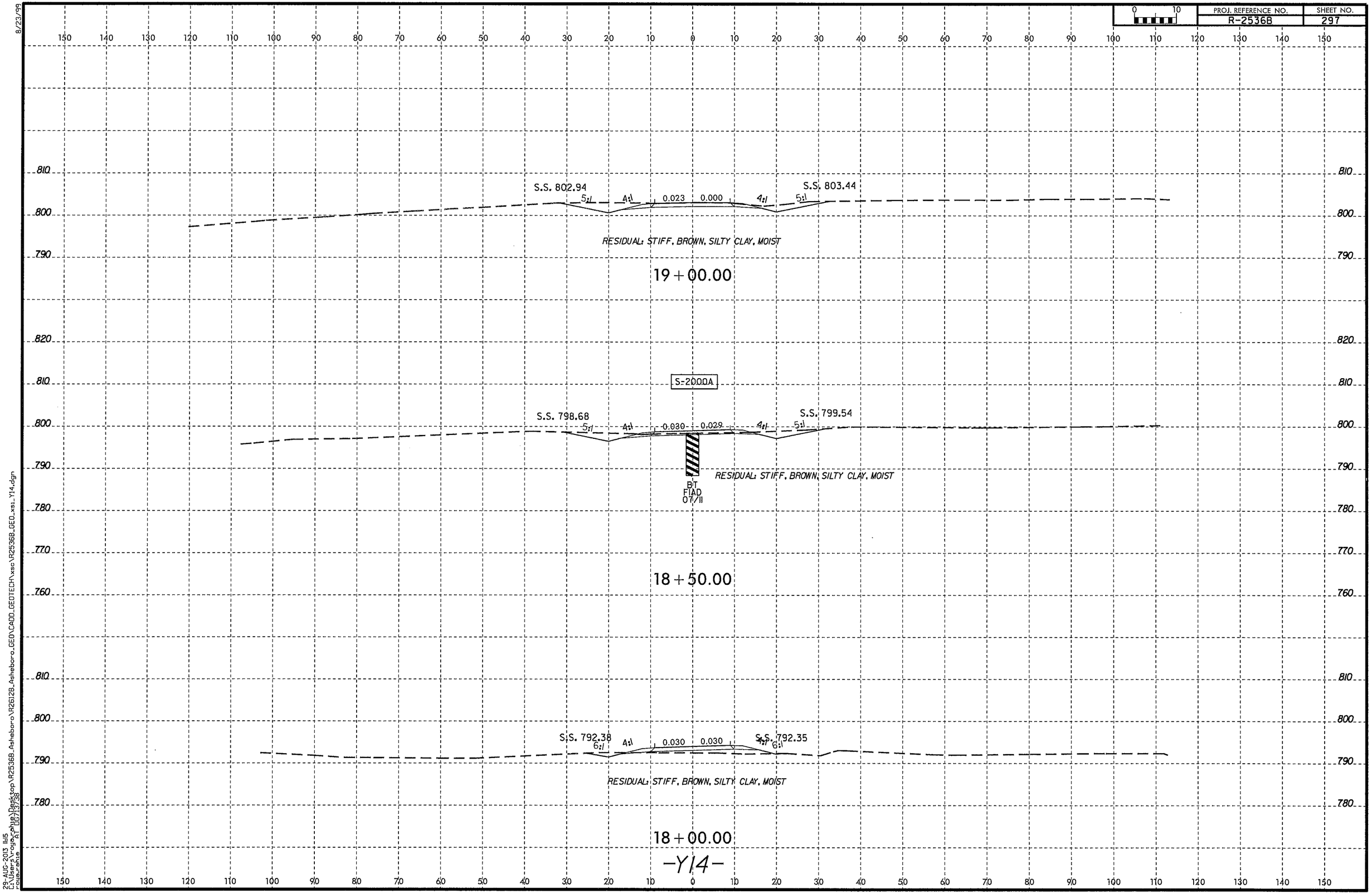
AT 06713738



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NCDOT GEOTECHNICAL ENGINEERING UNIT
BORELOG REPORT

WBS 34450.1.1	**TIP** R-2536B	**COUNTY** RANDOLPH	**GEOLOGIST** Manning, C.
SITE DESCRIPTION US 64 ASHEBORO SOUTHERN BYPASS, US 220 TO SR 2834 (OLD COX RD.)			**GROUND WTR (ft)**
BORING NO. RPD-2750R	**STATION** 27+50	**OFFSET** 250 ft RT	**ALIGNMENT** -RPD- — **0 HR.** Dry
COLLAR ELEV. 790.1 ft	**TOTAL DEPTH** 13.1 ft	**NORTHING** 692,004	**EASTING** 1,753,858 — **24 HR.** 13.0
DRILL RIG/HAMMER EFF./DATE F&R2175 CME-55 88% 1/14/2011		**DRILL METHOD** H.S. Augers	**HAMMER TYPE** Automatic
DRILLER Contract Driller	**START DATE** 07/27/11	**COMP. DATE** 07/27/11	**SURFACE WATER DEPTH** N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 25 50 75 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION ELEV. (ft)	DEPTH (ft)
795											
790	790.1	0.0								790.1 GROUND SURFACE	0.0
			2	5	8	13		M		**RESIDUAL** TAN, WHITE, AND ORANGE, STIFF TO HARD, SANDY SILT	
	786.6	3.5									
785			14	15	17	32	SS-1191	M			
780											
										778.2	11.9
	777.0	13.1	60/0.0			60/0.0				777.0 **WEATHERED ROCK** (METAVOLCANIC)	13.1
										Boring Terminated at Elevation 777.0 ft on NON-CRYSTALLINE ROCK (METAVOLCANIC)	

NCDOT BORE SINGLE R2536B_GEO_BH_RANDOLPH_MERGED.GPJ NC_DOT.GDT 8/26/13