

REFERENCE: U-2729

PROJECT: 34853

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

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY FORSYTH
 PROJECT DESCRIPTION SR 1672 (HANES MILL ROAD)
FROM MUSEUM DRIVE TO NC 66
(UNIVERSITY PARKWAY) IN WINSTON-SALEM
 SITE DESCRIPTION BRIDGE NO. 290 ON SR 1672
(HANES MILL ROAD) OVER US 52

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2729	1	13

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (919) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. 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.

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

NOTES:

- THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT.
- BY HAVING REQUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

PERSONNEL

P. ZHANG

C. TREMBLAY

R.W. TODD

R.J. TUCKER

C.E. BURRIS

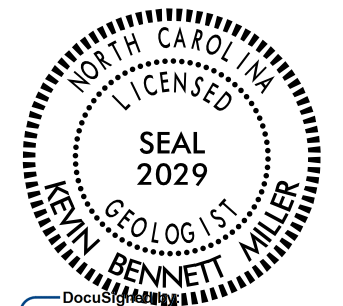
INVESTIGATED BY WOOD E&IS, INC.

DRAWN BY P. ZHANG

CHECKED BY M. LEAR

SUBMITTED BY P. ZHANG

DATE NOVEMBER, 2018



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SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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 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 THE STANDARD PENETRATION TEST (AASHTO T 209, ASTM D1586). SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM. BASIC DESCRIPTIONS GENERALLY INCLUDE THE FOLLOWING: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. FOR EXAMPLE, VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6

SOIL LEGEND AND AASHTO CLASSIFICATION

Table with columns for General Class, Granular Materials (A-1 to A-7), Silty-Clay Materials (A-1 to A-7), Organic Materials (A-1, A-2, A-3, A-4, A-5, A-6, A-7), and Soil Symbols. Includes a legend for soil types like Granular Soils, Silty-Clay Soils, and Muck/Peat.

CONSISTENCY OR DENSENESS

Table mapping soil types (e.g., Generally Granular Material, Generally Silty-Clay Material) to consistency/denseness levels (e.g., Very Loose, Medium Dense, Very Dense) and unconfined compressive strength ranges.

TEXTURE OR GRAIN SIZE

Table showing U.S. Std. Sieve Size (mm) and corresponding grain size categories: Boulder, Cobble, Gravel, Coarse Sand, Fine Sand, Silt, and Clay.

SOIL MOISTURE - CORRELATION OF TERMS

Table correlating Soil Moisture Scale (Atterberg Limits), Field Moisture Description (Saturated, Wet, Moist, Dry), and Guide for Field Moisture Description (Usually Liquid, Semisolid, Solid).

PLASTICITY

Table showing Plasticity Index (PI) ranges and corresponding Dry Strength levels (Very Low, Slight, Medium, High).

COLOR

DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-BROWN). 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. UNIFORMLY GRADED - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLE SIZES 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 WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.

COMPRESSIBILITY

SLIGHTLY COMPRESSIBLE LL < 31
MODERATELY COMPRESSIBLE LL = 31 - 50
HIGHLY COMPRESSIBLE LL > 50

PERCENTAGE OF MATERIAL

Table showing percentages for Organic Material, Granular Soils, Silty-Clay Soils, and Other Material.

GROUND WATER

Water level symbols and descriptions: Water level in bore hole immediately after drilling, Static water level after 24 hours, Perched water, saturated zone, or water bearing strata, Spring or seep.

MISCELLANEOUS SYMBOLS

Diagrammatic symbols for Roadway Embankment, Soil Symbol, Artificial Fill, Inferred Soil Boundary, Inferred Rock Line, Alluvial Soil Boundary, Dip and Dip Direction, Test Boring, Auger Boring, Core Boring, Monitoring Well, Piezometer Installation, Slope Indicator, Cone Penetrometer Test, Sounding Rod, Test Boring with Core, SPT N-Value.

RECOMMENDATION SYMBOLS

Symbols for Undercut, Shallow Undercut, Unclassified Excavation - Unsuitable Waste, and Unclassified Excavation - Acceptable Degradable Rock.

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, FRAGMENTS, HI. - HIGHLY, MED. - MEDIUM, MICA - MICACEOUS, MOD. - MODERATELY, NP - NON PLASTIC, ORG. - ORGANIC, PMT - PRESSUREMETER TEST, SAP. - SAPROLITIC, SD. - SAND, SANDY, SL. - SILTY, SILTY, SLI. - SLIGHTLY, TCR - TRICONE REFUSAL, w - MOISTURE CONTENT, V - VERY, VST - VANE SHEAR TEST, WEA. - WEATHERED, UNIT WEIGHT, 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: CME-45C, CME-55, CME-550, VANE SHEAR TEST, PORTABLE HOIST, CME-550X, NW CASING. ADVANCING TOOLS: CLAY BITS, 6" CONTINUOUS FLIGHT AUGER, 8" HOLLOW AUGERS, HARD FACED FINGER BITS, TUNG-CARBIDE INSERTS, CASING w/ ADVANCER, TRICONE STEEL TEETH, TRICONE TUNG-CARB., CORE BIT. HAMMER TYPE: AUTOMATIC, MANUAL. CORE SIZE: B, H, N. HAND TOOLS: POST HOLE DIGGER, HAND AUGER, SOUNDING ROD, VANE SHEAR TEST.

ROCK DESCRIPTION

HARD ROCK IS NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT REFUSAL IF TESTED. 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 YIELD 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 (IV 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, WOULD YIELD SPT N VALUES > 100 BPF. VERY SEVERE (IV SEV.): ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC ELEMENTS ARE DISCERNIBLE BUT MASS IS EFFECTIVELY REDUCED TO SOIL STATUS, WITH ONLY FRAGMENTS OF STRONG ROCK REMAINING. SAPROLITE IS AN EXAMPLE OF ROCK WEATHERED TO A DEGREE THAT ONLY MINOR VESTIGES OF ORIGINAL ROCK FABRIC REMAIN. IF TESTED, WOULD YIELD SPT N VALUES < 100 BPF. COMPLETE: ROCK REDUCED TO SOIL. ROCK FABRIC NOT DISCERNIBLE, OR DISCERNIBLE ONLY IN SMALL AND SCATTERED CONCENTRATIONS. FABRIC 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 GROUDED OR GOUGED 0.05 INCHES DEEP BY FIRM PRESSURE OF KNIFE OR PICK POINT. CAN BE EXCAVATED IN SMALL CHIPS TO PIECES 1 INCH MAXIMUM SIZE BY HARD BLOWS OF THE POINT OF A GEOLOGIST'S PICK. SOFT: CAN BE GROUDED 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 FINGER NAIL.

FRACTURE SPACING

Table mapping Fracture Spacing (Very Wide, Wide, Moderately Close, Close, Very Close) to Spacing (More than 10 feet, 3 to 10 feet, 1 to 3 feet, 0.16 to 1 foot, Less than 0.16 feet).

BEDDING

Table mapping Bedding (Very Thickly Bedded, Thickly Bedded, Thinly Bedded, Very Thinly Bedded, Thickly Laminated, Thinly Laminated) to Thickness (4 feet, 1.5 - 4 feet, 0.16 - 1.5 feet, 0.03 - 0.16 feet, 0.008 - 0.03 feet, < 0.008 feet).

INDURATION

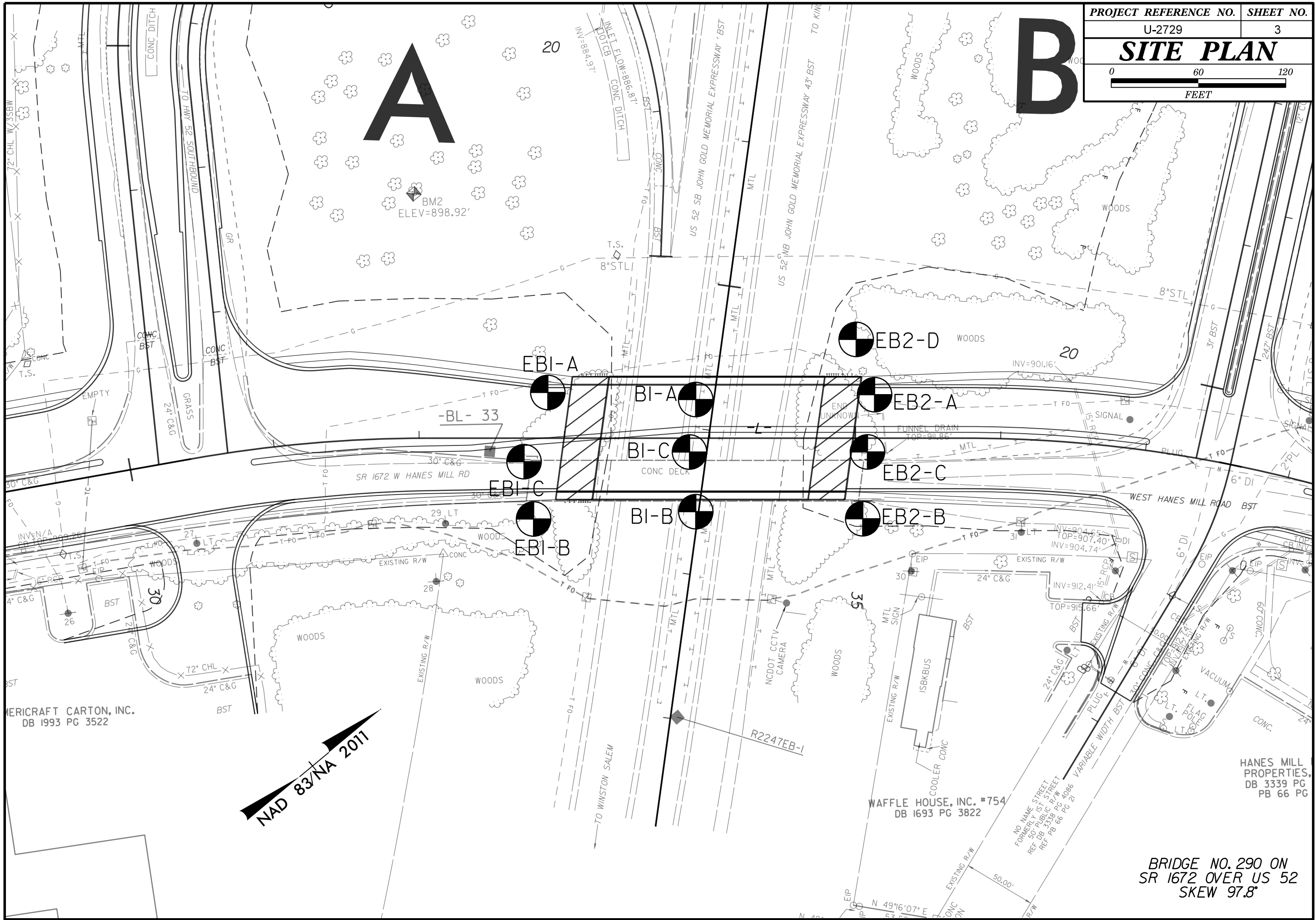
FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC. FRIABLE: RUBBING WITH FINGER FREES NUMEROUS GRAINS; GENTLE BLOW BY HAMMER DISINTEGRATES SAMPLE. MODERATELY INDURATED: GRAINS CAN BE SEPARATED FROM SAMPLE WITH STEEL PROBE; BREAKS EASILY WHEN HIT WITH HAMMER. 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, SUCH 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 DISLOADED 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 (ROD) - 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 (SROD) - 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: TBM: ORANGE DOT IN CIRCLE, STA. 50+20, 30 FT RT. ELEVATION: 913.15 FEET.

NOTES:

FIAD - FILLED IMMEDIATELY AFTER DRILLING
COLLAR ELEVATION FOR EB2-D WAS OBTAINED FROM THE PROJECT TIN FILE, U2729-Ls.tin.tin.
DATE: 8-15-14



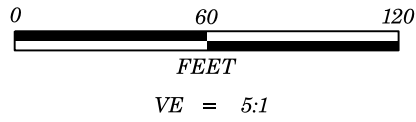
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NAD 83/NA 2011

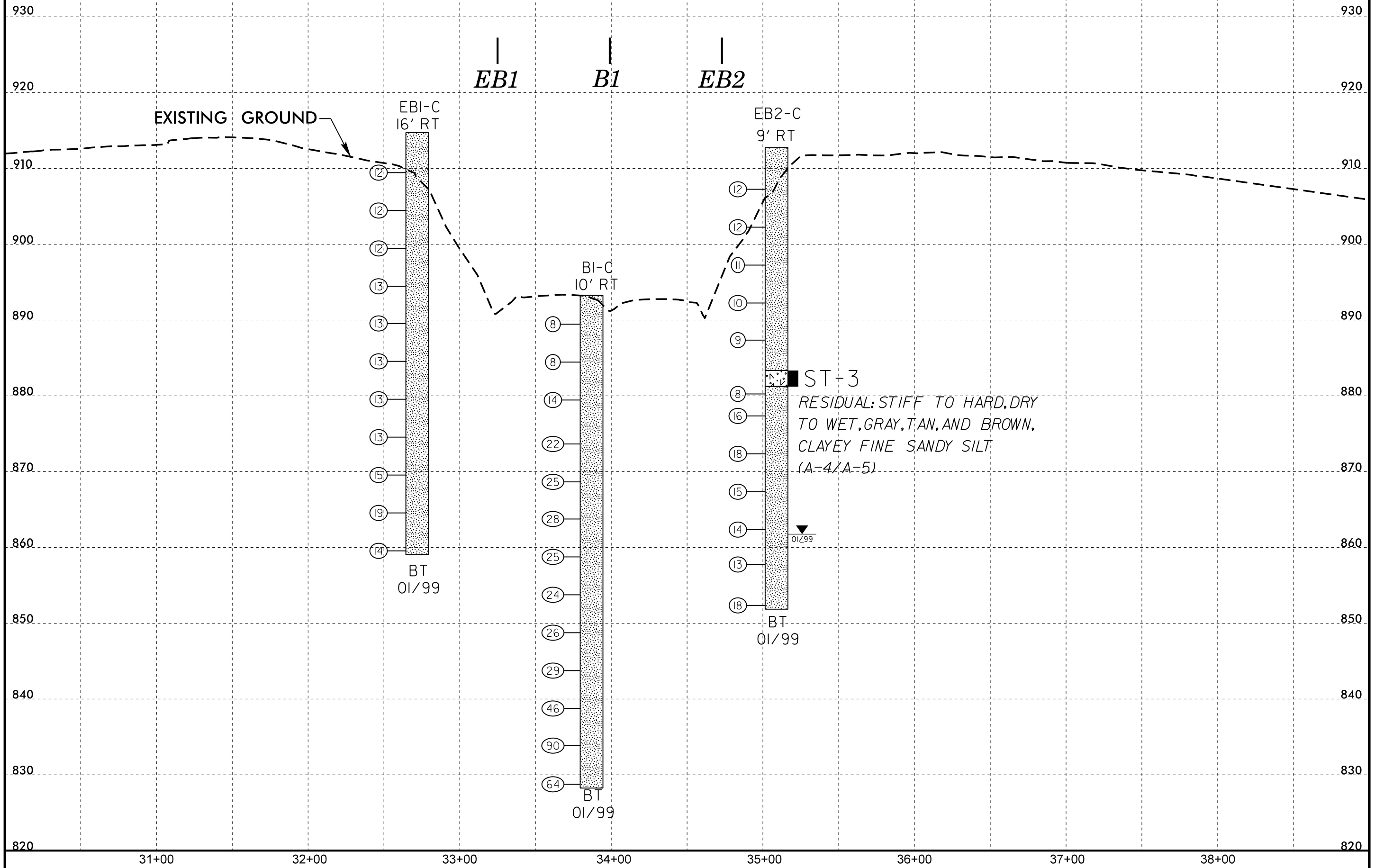
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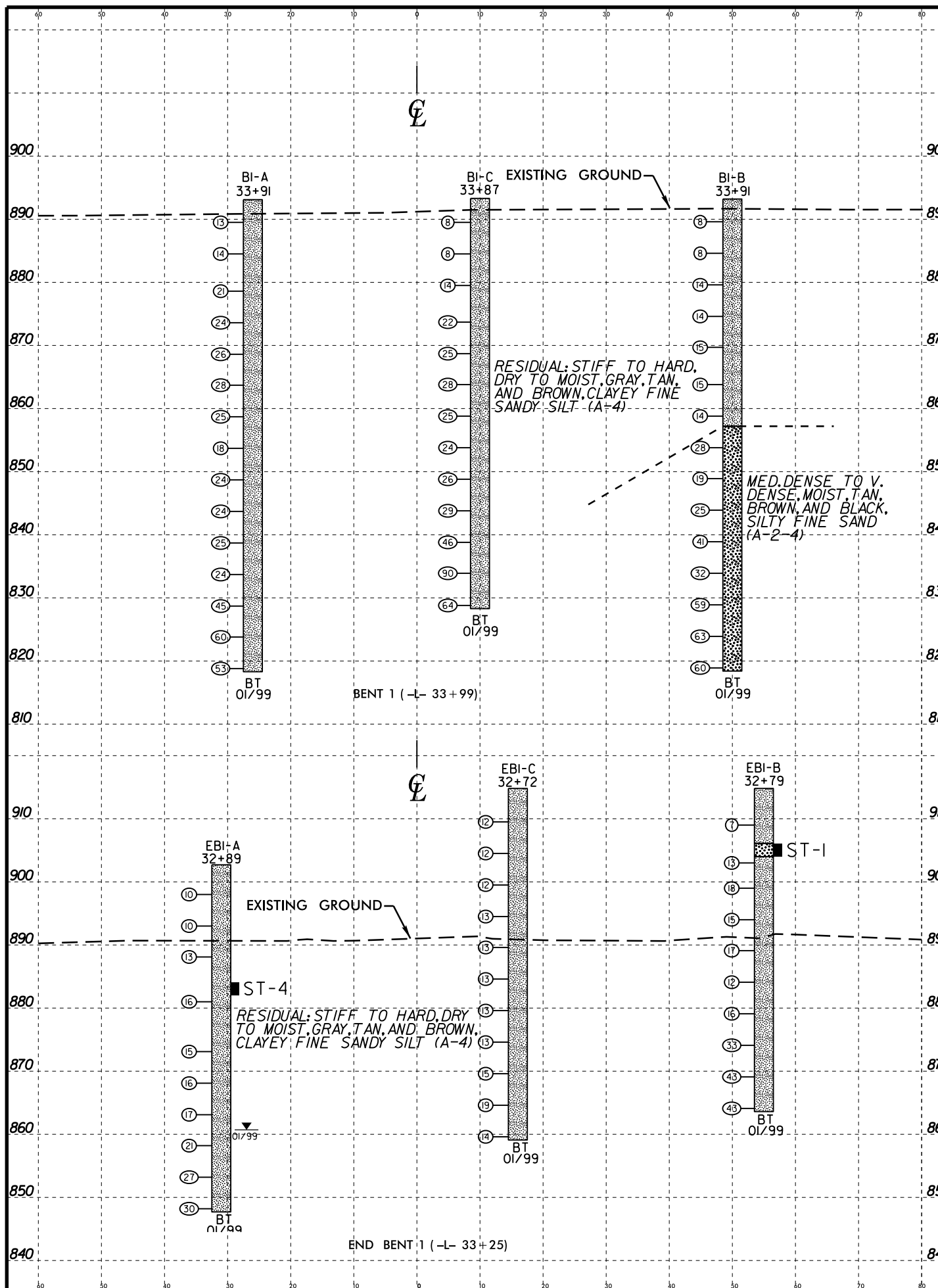
HANES MILL PROPERTIES,
DB 3339 PG 66 PG

BRIDGE NO. 290 ON
SR 1672 OVER US 52
SKEW 97.8'



PROJECT REFERENCE NO.	SHEET NO.
U-2729	4
BRIDGE NO. 290 ON SR 1672 OVER US 52 -L- PROFILE	

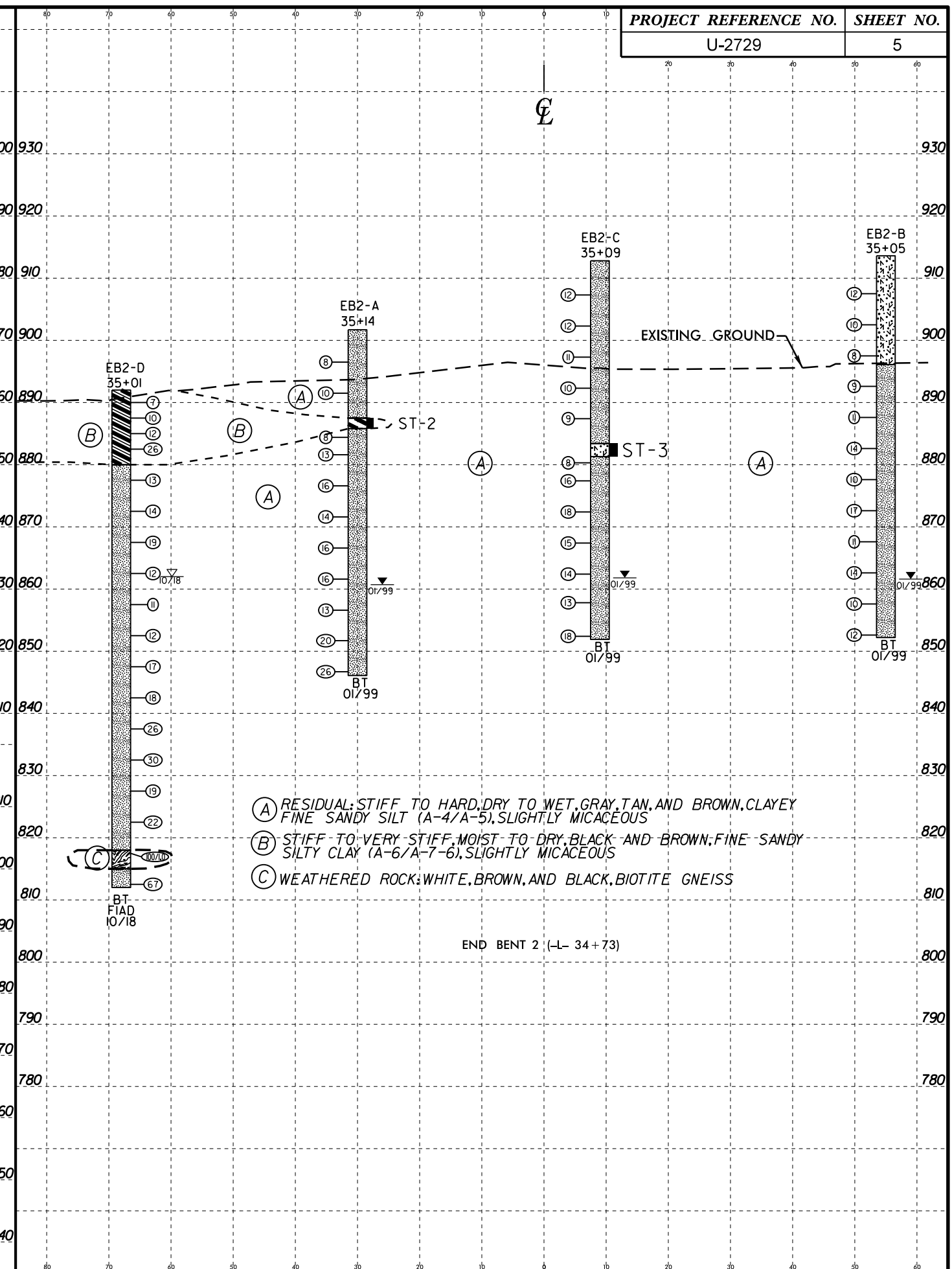




HORIZ. SCALE 0 20 40 (FEET)

VE = 1:1

END BENT 1 CROSS SECTION
BENT 1 CROSS SECTION



HORIZ. SCALE 0 20 40 (FEET)

VE = 1:1

END BENT 2 CROSS SECTION

**GEOTECHNICAL BORING REPORT
BORE LOG**

WBS 34853.1.2		TIP U-2729		COUNTY FORSYTH		GEOLOGIST Todd R.W.											
SITE DESCRIPTION Bridge No. 290 on SR 1672 (Hanes Mill Road) over US 52							GROUND WTR (ft)										
BORING NO. EB1-A		STATION 32+89		OFFSET 31 ft LT		ALIGNMENT -L-		0 HR. N/A									
COLLAR ELEV. 902.7 ft		TOTAL DEPTH 55.0 ft		NORTHING 889,682		EASTING 1,622,206		24 HR. 42.0									
DRILL RIG/HAMMER EFF./DATE CME-550				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Tucker, R.J.		START DATE 01/25/99		COMP. DATE 01/26/99		SURFACE WATER DEPTH N/A											
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100							
905															902.7	GROUND SURFACE	0.0
900	899.0	3.7	2	5	5											RESIDUAL Brown, tan, and white, clayey sandy SILT (A-4)	
895	894.0	8.7	2	5	5												
890	889.1	13.6	2	5	8												
885	882.0	20.7	2	9	7								28%				
880	874.1	28.6	4	7	8												
875	869.1	33.6	2	7	9												
870	864.1	38.6	2	6	11												
865	859.2	43.5	3	9	12												
860	854.2	48.5	3	13	14												
855	849.2	53.5	3	13	17												
850																	
															847.7	Boring Terminated at Elevation 847.7 ft in Residual: clayey sandy SILT (A-4)	55.0
															Other Samples: ST-4 (18.6 - 20.7)		

WBS 34853.1.2		TIP U-2729		COUNTY FORSYTH		GEOLOGIST Todd R.W.											
SITE DESCRIPTION Bridge No. 290 on SR 1672 (Hanes Mill Road) over US 52							GROUND WTR (ft)										
BORING NO. EB1-C		STATION 32+72		OFFSET 16 ft RT		ALIGNMENT -L-		0 HR. N/A									
COLLAR ELEV. 914.8 ft		TOTAL DEPTH 55.7 ft		NORTHING 889,639		EASTING 1,622,232		24 HR. N/A									
DRILL RIG/HAMMER EFF./DATE CME-550				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Tucker, R.J.		START DATE 01/26/99		COMP. DATE 01/26/99		SURFACE WATER DEPTH N/A											
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100							
915															914.8	GROUND SURFACE	0.0
910	910.5	4.3	2	5	7												
905	905.5	9.3	2	6	6												
900	900.5	14.3	3	5	7												
895	895.5	19.3	5	5	8												
890	890.6	24.2	3	5	8												
885	885.6	29.2	3	6	7												
880	880.6	34.2	5	6	7												
875	875.6	39.2	6	7	6												
870	870.6	44.2	3	7	8												
865	865.6	49.2	3	6	13												
860	860.6	54.2	4	6	8												
															Boring Terminated at Elevation 859.1 ft in Residual: clayey sandy SILT (A-4)		

NCDOT BORE DOUBLE U2729_GEO_BRDG.GPJ NC_DOT.GDT 11/28/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 34853.1.2		TIP U-2729		COUNTY FORSYTH		GEOLOGIST Todd R.W.											
SITE DESCRIPTION Bridge No. 290 on SR 1672 (Hanes Mill Road) over US 52							GROUND WTR (ft)										
BORING NO. B1-C		STATION 33+87		OFFSET 10 ft RT		ALIGNMENT -L-											
COLLAR ELEV. 893.3 ft		TOTAL DEPTH 65.0 ft		NORTHING 889,731		EASTING 1,622,300											
DRILL RIG/HAMMER EFF./DATE CME-550		DRILL METHOD NW Casing w/ SPT		HAMMER TYPE Automatic													
DRILLER Tucker, R.J.		START DATE 01/20/99		COMP. DATE 01/20/99		SURFACE WATER DEPTH N/A											
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION	ELEV. (ft)	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100							
895															893.3	0.0	GROUND SURFACE
890	890.5	2.8	3	4	4								M				RESIDUAL Brown, tan, and white, clayey sandy SILT (A-4)
885	885.5	7.8	4	4	4												
880	880.5	12.8	5	7	7								M				
875	874.7	18.6	7	10	12								D	SS-6			
870	869.7	23.6	7	11	14												
865	864.8	28.5	7	12	16								D				
860	859.8	33.5	7	11	14								M				
855	854.8	38.5	6	11	13								M	SS-7			
850	849.8	43.5	8	12	14												
845	844.8	48.5	7	9	20								M				
840	839.8	53.5	10	15	31												
835	834.9	58.4	13	30	60								M				
830	829.8	63.5	11	22	42								M				
															828.3	65.0	Boring Terminated at Elevation 828.3 ft in Residual: clayey sandy SILT (A-4)

WBS 34853.1.2		TIP U-2729		COUNTY FORSYTH		GEOLOGIST Todd R.W.											
SITE DESCRIPTION Bridge No. 290 on SR 1672 (Hanes Mill Road) over US 52							GROUND WTR (ft)										
BORING NO. B1-B		STATION 33+91		OFFSET 50 ft RT		ALIGNMENT -L-											
COLLAR ELEV. 893.2 ft		TOTAL DEPTH 74.8 ft		NORTHING 889,708		EASTING 1,622,334											
DRILL RIG/HAMMER EFF./DATE CME-550		DRILL METHOD NW Casing w/ SPT		HAMMER TYPE Automatic													
DRILLER Tucker, R.J.		START DATE 01/20/99		COMP. DATE 01/20/99		SURFACE WATER DEPTH N/A											
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION	ELEV. (ft)	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100							
895															893.2	0.0	GROUND SURFACE
890	890.6	2.6	3	4	4								M	SS-1			RESIDUAL Brown, tan, and white, clayey fine sandy SILT (A-4)
885	885.6	7.6	3	4	4								M	SS-2			
880	880.6	12.6	4	5	9												
875	875.6	17.6	4	5	9								M	SS-3			
870	870.7	22.5	3	6	9												
865	864.8	28.4	3	6	9								M				
860	859.8	33.4	2	5	9												
855	854.8	38.4	6	13	15								M	SS-4			Brown, tan, and black, silty fine SAND (A-2-4)
850	849.9	43.3	4	7	12												
845	844.9	48.3	6	12	13								M				
840	839.9	53.3	7	17	24												
835	834.9	58.3	7	16	16								M	SS-5			
830	829.9	63.3	15	26	33								M				
825	824.9	68.3	15	21	42												
820	819.9	73.3	17	21	39								M				
															818.4	74.8	Boring Terminated at Elevation 818.4 ft in Residual: silty fine SAND (A-2-4)

NCDOT BORE DOUBLE U2729_GEO_BRDG.GPJ NC_DOT.GDT 11/28/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 34853.1.2		TIP U-2729		COUNTY FORSYTH		GEOLOGIST Todd R.W.										
SITE DESCRIPTION Bridge No. 290 on SR 1672 (Hanes Mill Road) over US 52							GROUND WTR (ft)									
BORING NO. EB2-A		STATION 35+14		OFFSET 30 ft LT		ALIGNMENT -L-										
COLLAR ELEV. 901.7 ft		TOTAL DEPTH 55.6 ft		NORTHING 889,854		EASTING 1,622,351										
DRILL RIG/HAMMER EFF./DATE CME-550		DRILL METHOD H.S. Augers		HAMMER TYPE Automatic												
DRILLER Tucker, R.J.		START DATE 01/22/99		COMP. DATE 01/22/99		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)	
905																
															901.7	GROUND SURFACE 0.0
900	897.5	4.2	3	3	5											RESIDUAL Brown and tan, clayey fine sandy SILT (A-4)
895																
	892.5	9.2	3	4	6											
890																
	885.4	16.3	2	4	4										887.5	14.2
885															885.8	15.9
	882.6	19.1	2	6	7											Brown and tan, silty fine sandy CLAY (A-7-6)
880																Brown, tan, and gray, clayey fine sandy SILT (A-4), slightly micaceous
	877.6	24.1	7	8	8											
875																
	872.6	29.1	4	6	8											
870																
	867.6	34.1	4	7	9											
865																
	862.6	39.1	4	7	9											
860																
	857.6	44.1	3	6	7											
855																
	852.7	49.0	3	6	14											
850																
	847.7	54.0	3	7	19											
															846.1	55.6
Boring Terminated at Elevation 846.1 ft in Residual: clayey sandy SILT (A-4)																
Other Samples: ST-2 (14.2 - 15.9)																

WBS 34853.1.2		TIP U-2729		COUNTY FORSYTH		GEOLOGIST Todd R.W.										
SITE DESCRIPTION Bridge No. 290 on SR 1672 (Hanes Mill Road) over US 52							GROUND WTR (ft)									
BORING NO. EB2-C		STATION 35+09		OFFSET 9 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 912.8 ft		TOTAL DEPTH 60.9 ft		NORTHING 889,825		EASTING 1,622,378										
DRILL RIG/HAMMER EFF./DATE CME-550		DRILL METHOD H.S. Augers		HAMMER TYPE Automatic												
DRILLER Tucker, R.J.		START DATE 01/25/99		COMP. DATE 01/25/99		SURFACE WATER DEPTH N/A										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG G	SOIL AND ROCK DESCRIPTION		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)	
915																
															912.8	GROUND SURFACE 0.0
910	908.3	4.5	3	6	6											RESIDUAL Brown and tan, clayey fine sandy SILT (A-4)
905																
	903.3	9.5	3	6	6											
900																
	898.3	14.5	2	5	6											
895																
	893.3	19.5	2	5	5											
890																
	888.4	24.4	2	4	5											
885																
	883.4	29.4													23%	29.4
880																
	881.3	31.5	2	3	5											
875																
	878.4	34.4	4	7	9											
870																
	873.4	39.4	5	8	10											
865																
	868.4	44.4	4	7	8											
860																
	863.4	49.4	3	6	8											
855																
	858.8	54.0	3	6	7											
	853.4	59.4	4	7	11											
															851.9	60.9
Boring Terminated at Elevation 851.9 ft in Residual: clayey sandy SILT (A-4)																
Other Samples: ST-3 (29.4 - 31.5)																

NCDOT BORE DOUBLE U2729_GEO_BRDG.GPJ NC_DOT.GDT 11/28/18

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 34853.1.2		TIP U-2729		COUNTY FORSYTH		GEOLOGIST Todd R.W.											
SITE DESCRIPTION Bridge No. 290 on SR 1672 (Hanes Mill Road) over US 52							GROUND WTR (ft)										
BORING NO. EB2-B		STATION 35+05		OFFSET 55 ft RT		ALIGNMENT -L-											
COLLAR ELEV. 913.6 ft		TOTAL DEPTH 61.4 ft		NORTHING 889,793		EASTING 1,622,411											
DRILL RIG/HAMMER EFF./DATE CME-550				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic											
DRILLER Tucker, R.J.		START DATE 01/22/99		COMP. DATE 01/22/99		SURFACE WATER DEPTH N/A											
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100							
915																913.6	
																GROUND SURFACE	
910	908.5	5.1	4	6	6	12						SS-15	D			RESIDUAL Brown, clayey fine sandy SILT (A-5), slightly micaceous	
905	903.5	10.1	2	4	6	10											
900	898.5	15.1	2	3	5	8											
895	893.6	20.0	2	4	5	9						SS-16	D			896.1	
890	888.6	25.0	2	5	6	11											
885	883.6	30.0	3	6	8	14											
880	878.6	35.0	2	4	6	10											
875	873.6	40.0	4	7	10	17						SS-17	D				
870	868.6	45.0	2	4	7	11						SS-18	M				
865	863.6	50.0	3	6	8	14											
860	858.6	55.0	2	5	5	10						SS-19	M				
855	853.6	60.0	3	5	7	12											
																852.2	
																	Boring Terminated at Elevation 852.2 ft in Residual: clayey sandy SILT (A-4)

NCDOT BORE DOUBLE U2729_GEO_BRDG.GPJ NC_DOT.GDT 11/28/18

PROJECT NO.	SHEET NO.
U-2729	12

SOIL TEST RESULTS

SAMPLE NO.	BORING	STATION	OFFSET	LINE	DEPTH INTERVAL	AASHTO CLASS.	L.L.	P.I.	% BY WEIGHT				% PASSING SIEVES			% Moisture	% ORGANIC
									C. SAND	F. SAND	SILT	CLAY	10.0	40	200.0		
SS-24	EBI-A	32+89	31' LT	-L-	3.7-5.2	A-4(1)	38	8	27.3	38.8	21.8	12.1	97.0	79.0	41.0	-	-
ST-4	EBI-A	32+89	31' LT	-L-	18.6-20.7	A-4(3)	39	6	12.0	41.2	34.7	12.0	100.0	94.0	60.0	27.8	-
SS-25	EBI-A	32+89	31' LT	-L-	20.7-22.2	A-4(1)	33	6	22.2	38.6	25.1	14.1	94.0	81.0	46.0	-	-
SS-26	EBI-A	32+89	31' LT	-L-	33.6-35.1	A-4(0)	35	8	36.8	30.1	21.0	12.1	91.0	66.0	37.0	-	-
SS-27	EBI-C	32+72	16' RT	-L-	19.3-20.8	A-4(0)	35	5	32.9	36.4	20.6	10.1	98.0	76.0	38.0	-	-
SS-28	EBI-C	32+72	16' RT	-L-	39.2-40.7	A-4(1)	32	7	23.8	32.7	27.3	16.2	98.0	82.0	51.0	-	-
SS-12	EBI-B	32+79	55' RT	-L-	4.8-6.3	A-4(1)	34	5	29.7	26.3	23.8	20.2	97.0	77.0	49.0	-	-
ST-1	EBI-B	32+79	55' RT	-L-	8.7-10.8	A-2-4(0)	36	NP	38.8	36.8	18.4	6.0	96.0	70.0	32.0	14.0	-
SS-13	EBI-B	32+79	55' RT	-L-	10.8-12.3	A-4(0)	26	NP	33.3	36.2	18.4	12.1	97.0	75.0	37.0	-	-
SS-14	EBI-B	32+79	55' RT	-L-	24.7-26.2	A-4(2)	35	9	21.8	35.6	28.5	14.1	96.0	84.0	49.0	-	-
SS-8	BI-A	33+91	26' LT	-L-	2.6-4.1	A-4(1)	32	6	25.1	36.4	24.4	14.1	98.0	83.0	47.0	-	-
SS-9	BI-A	33+91	26' LT	-L-	13.5-15.0	A-4(0)	31	5	28.1	35.2	22.6	14.1	97.0	80.0	44.0	-	-
SS-10	BI-A	33+91	26' LT	-L-	28.4-29.9	A-4(0)	33	6	21.6	48.5	17.8	12.1	100.0	88.0	39.0	-	-
SS-11	BI-A	33+91	26' LT	-L-	58.4-59.9	A-4(0)	36	5	23.4	43.8	22.6	10.1	98.0	85.0	41.0	-	-
SS-6	BI-C	33+87	10' RT	-L-	18.6-20.1	A-4(1)	32	6	21.0	37.0	23.8	18.2	100.0	98.0	50.0	-	-
SS-7	BI-C	33+87	10' RT	-L-	38.5-40.0	A-4(0)	29	6	36.6	30.1	21.2	12.1	93.0	68.0	37.0	-	-
SS-1	BI-B	33+91	50' RT	-L-	2.6-4.1	A-4(4)	39	8	20.0	28.7	31.1	20.2	97.0	83.0	58.0	-	-
SS-2	BI-B	33+91	50' RT	-L-	7.6-9.1	A-4(5)	40	9	17.2	31.3	33.3	18.2	100.0	90.0	61	-	-
SS-3	BI-B	33+91	50' RT	-L-	17.6-19.1	A-4(1)	33	5	20.6	33.7	29.5	16.2	100.0	88.0	55.0	-	-
SS-4	BI-B	33+91	50' RT	-L-	38.4-39.9	A-2-4(0)	32	NP	27.7	46.1	18.2	8.1	96.0	80.0	34.0	-	-
SS-5	BI-B	33+91	50' RT	-L-	58.3-59.8	A-2-4(0)	30	NP	33.5	41.8	16.6	8.1	99.0	77.0	31.0	-	-
SS-20	EB2-A	35+14	30' LT	-L-	4.2-5.7	A-4(1)	39	8	18.4	46.7	20.8	14.1	99.0	90.0	43.0	-	-
ST-2	EB2-A	35+14	30' LT	-L-	14.2-15.9	A-7-6(3)	42	13	20.3	42.2	23.4	14.1	100.0	85.0	47.0	25.4	-
SS-21	EB2-A	35+14	30' LT	-L-	16.3-17.8	A-4(1)	37	5	23.2	35.6	25.1	16.2	100.0	87.0	50.0	-	-
SS-22	EB2-A	35+14	30' LT	-L-	29.1-30.6	A-4(0)	39	7	27.1	41.2	19.6	12.1	98.0	81.0	41.0	-	-
ST-3	EB2-C	35+09	9' RT	-L-	29.4-31.5	A-5(0)	43	8	26.7	42.2	23.0	8.1	99.0	82.0	39.0	23.2	-
SS-23	EB2-C	35+09	9' RT	-L-	31.5-33.0	A-4(1)	38	8	24.6	37.8	25.5	12.1	100.0	84.0	45.0	-	-
SS-15	EB2-B	35+05	55' RT	-L-	5.1-6.6	A-5(0)	42	7	23.2	45.3	17.4	14.1	99.0	86.0	40.0	-	-
SS-16	EB2-B	35+05	55' RT	-L-	20.0-21.5	A-4(0)	37	7	24.2	43.8	17.8	14.1	100.0	93.0	41.0	-	-
SS-17	EB2-B	35+05	55' RT	-L-	40.0-41.5	A-4(1)	36	7	24.0	42.0	23.8	10.1	100.0	86.0	45.0	-	-
SS-18	EB2-B	35+05	55' RT	-L-	45.0-46.5	A-4(1)	39	9	25.9	40.4	23.6	10.1	99.0	83.0	42.0	-	-
SS-19	EB2-B	35+05	55' RT	-L-	55.0-56.5	A-4(1)	37	8	23.6	41.6	18.6	16.2	100.0	87.0	44.0	-	-
SS-154	EB2-D	35+01	68' LT	-L-	1.0-2.5	A-6(7)	39	12	17.7	15.3	44.3	21.2	98.5	86.4	67.7	25.4	-



PROFILE (-L2-), LOOKING UPSTATION FROM END BENT 1.



BENT 1, LOOKING FROM RT TO LT.



END BENT 1, LOOKING FROM LT TO RT.



END BENT 2, LOOKING FROM LT TO RT.

WBS NO.: 34853.1.2
TIP NO.: U-2729

BRIDGE NO. 290 ON SR 1672 OVER US 52
FORSYTH COUNTY, NORTH CAROLINA

SITE PHOTOGRAPHS



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