

PROJECT: 34821 REFERENCE: U-2525C

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

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY GUILFORD
 PROJECT DESCRIPTION GREENSBORO EASTERN LOOP
FROM US 29 NORTH OF GREENSBORO TO SR 2303
(LAWNDALE DRIVE)
 SITE DESCRIPTION CULVERT AT -L- 472+13 AT
UNNAMED TRIBUTARY TO RICHLAND CREEK/LAKE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2525C	1	6

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:
1. 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.
 2. 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

L. BUTLER

T. WILLIAMS

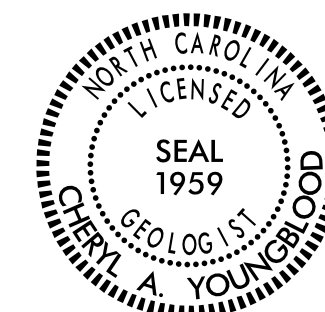
INVESTIGATED BY S&ME, Inc.

DRAWN BY T.T. WALKER, F&R, Inc.

CHECKED BY C.A. YOUNGBLOOD

SUBMITTED BY C.A. YOUNGBLOOD

DATE DECEMBER 2017

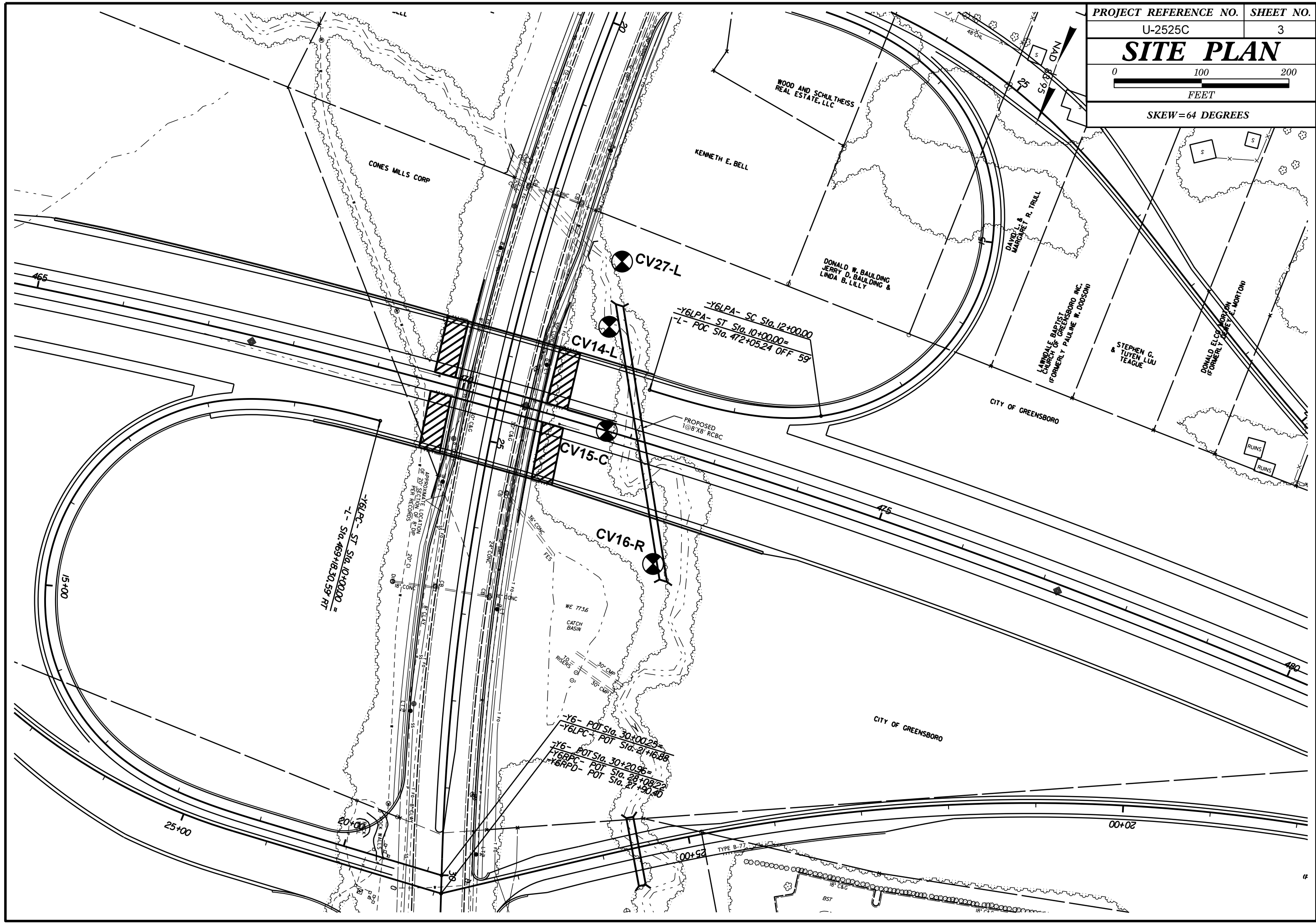


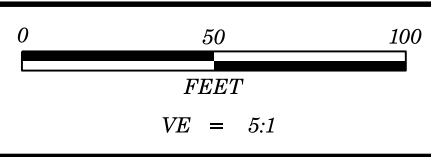
DocuSigned by:
Cheryl A. Youngblood

B304AB5FC8F3424... 12/19/2017
 SIGNATURE DATE

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

PROJECT REFERENCE NO.	SHEET NO.
U-2525C	3
SITE PLAN	
0 100 200 FEET	
SKEW=64 DEGREES	





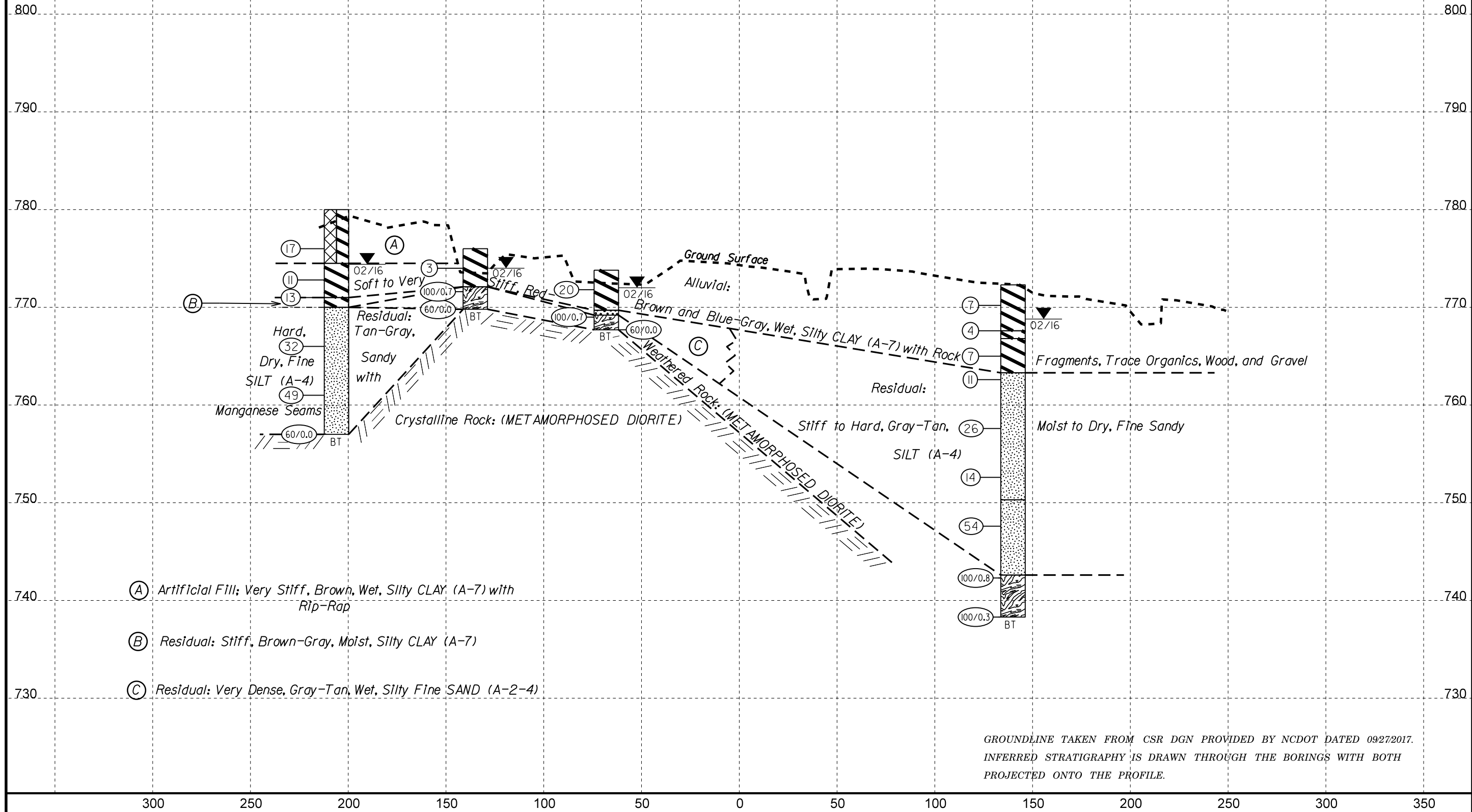
PROJECT REFERENCE NO.	SHEET NO.
U-2525C	4
CULVERT PROFILE ALONG -L- CROSS SECTION AT 472+13.00	
SKEW=64 DEGREES	

CV27-L
471+02
158' LT

CV14-L
471+41
115' LT

CV15-C
471+72
CL

CV16-R
472+68
130' RT



- (A) Artificial Fill; Very Stiff, Brown, Wet, Silty CLAY (A-7) with Rip-Rap
- (B) Residual: Stiff, Brown-Gray, Moist, Silty CLAY (A-7)
- (C) Residual: Very Dense, Gray-Tan, Wet, Silty Fine SAND (A-2-4)

GROUNDLINE TAKEN FROM CSR DGN PROVIDED BY NCDOT DATED 0927/2017.
INFERRED STRATIGRAPHY IS DRAWN THROUGH THE BORINGS WITH BOTH
PROJECTED ONTO THE PROFILE.

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 34821.1.5		TIP U-2525C		COUNTY GUILFORD		GEOLOGIST Wright, F.									
SITE DESCRIPTION Greensboro Eastern Loop From US 29 North of Greensboro to East of SR 2303 (Lawndale Drive)							GROUND WTR (ft)								
BORING NO. CV15-C		STATION 471+72		OFFSET CL		ALIGNMENT -L-									
COLLAR ELEV. 773.8 ft		TOTAL DEPTH 6.1 ft		NORTHING 870,404		EASTING 1,764,377									
DRILL RIG/HAMMER EFF./DATE SME275 DIEDRICH D-50 89% 1/15/2016				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER T. Williams		START DATE 02/03/16		COMP. DATE 02/03/16		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
775															
	772.8	1.0	5	8	12									773.8	0.0
	770.2	3.6	8	34	66/0.2									769.7	4.1
	767.7	6.1			60/0.0									767.7	6.1

WBS 34821.1.5		TIP U-2525C		COUNTY GUILFORD		GEOLOGIST Wright, F.									
SITE DESCRIPTION Greensboro Eastern Loop From US 29 North of Greensboro to East of SR 2303 (Lawndale Drive)							GROUND WTR (ft)								
BORING NO. CV16-R		STATION 472+68		OFFSET 130 ft RT		ALIGNMENT -L-									
COLLAR ELEV. 772.3 ft		TOTAL DEPTH 34.0 ft		NORTHING 870,530		EASTING 1,764,276									
DRILL RIG/HAMMER EFF./DATE SME275 DIEDRICH D-50 89% 1/15/2016				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic									
DRILLER T. Williams		START DATE 02/04/16		COMP. DATE 02/04/16		SURFACE WATER DEPTH N/A									
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100					
775															
	771.2	1.1	3	3	4									772.3	0.0
	768.6	3.7	2	2	2									769.7	4.1
	766.0	6.3	3	3	4									767.7	6.1
	763.6	8.7	3	5	6										
	758.6	13.7	5	11	15										
	753.6	18.7	3	5	9										
	748.6	23.7	7	19	35										
	743.6	28.7	7	24	76/0.3										
	738.6	33.7			100/0.3										

NCDOT BORE DOUBLE U2525C_GEO_CULV4_L_47213_5162016.GPJ NC_DOT.GDT 11/16/17