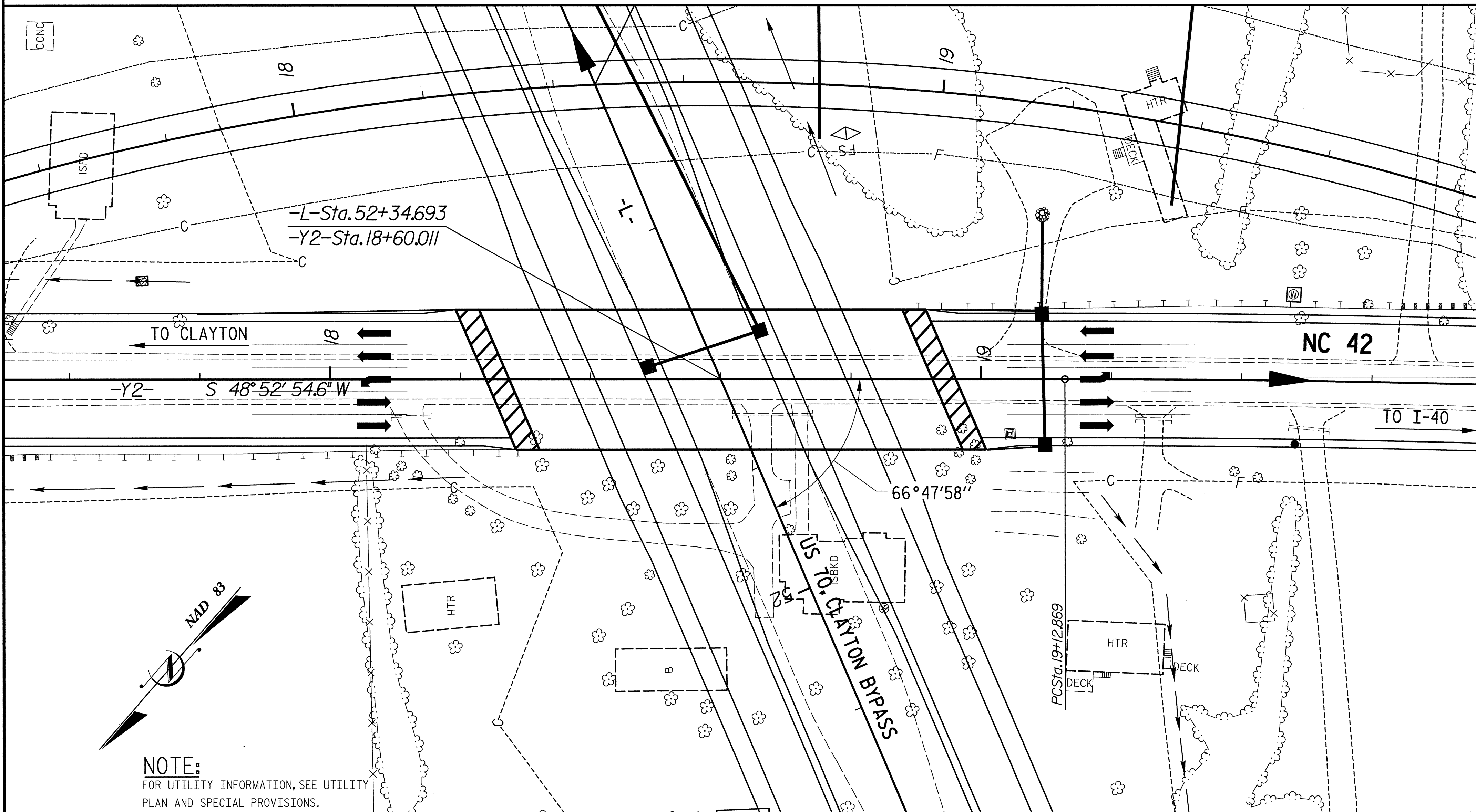


BENCH MARK: BY-5504 8.542m LT. OF -Y2- STA. 17+28.899 EL. 98.773

LOCATION SKETCH



NOTE:
FOR UTILITY INFORMATION, SEE UTILITY PLAN AND SPECIAL PROVISIONS.

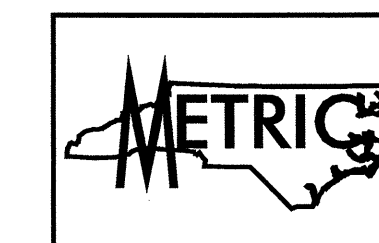
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS ARE IN METERS.
3. ASSUMED LIVE LOAD = MS 18 OR ALTERNATE LOADING.
4. FOR DESIGN DATA AND GENERAL NOTES, SEE SHEET SNSM.
5. THIS BRIDGE HAS BEEN DESIGNED BY THE STRENGTH DESIGN METHOD AS SPECIFIED IN AASHTO SPECIFICATIONS.
6. ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 345W AND PAINTED IN ACCORDANCE WITH SYSTEM 4 OF ARTICLE 442-7 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
7. REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.
8. WORK SHALL NOT BE STARTED ON THIS BRIDGE UNTIL ROADWAY SECTION HAS BEEN EXCAVATED.
9. THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR SEISMIC DESIGN OF HIGHWAY BRIDGES FOR SEISMIC PERFORMANCE CATEGORY A.
10. FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
11. FOR METRIC STRUCTURAL STEEL, SEE SPECIAL PROVISIONS.
12. FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
13. WAITING PERIOD FOR APPROACH SLAB CONSTRUCTION SHALL BE WAIVED.
14. PILES FOR END BENT NO. 1 AND NO. 2 AND BENT NO. 1 SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 450 kN EACH.
15. FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
16. WHEN DRIVING PILES, THE MAXIMUM BLOW COUNT SHALL NOT BE EXCEEDED.
17. NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.
18. THE CLASS AA CONCRETE IN THE BRIDGE DECK SHALL CONTAIN FLY ASH OR GROUND GRANULATED BLAST FURNACE SLAG AT THE SUBSTITUTION RATE SPECIFIED IN ARTICLE 1024-1 AND IN THE ACCORDANCE WITH ARTICLES 1024-5 AND 1024-6 OF THE STANDARD SPECIFICATIONS. NO PAYMENT WILL BE MADE FOR THIS SUBSTITUTION AS IT IS CONSIDERED INCIDENTAL TO THE COST OF THE REINFORCED CONCRETE DECK SLAB.

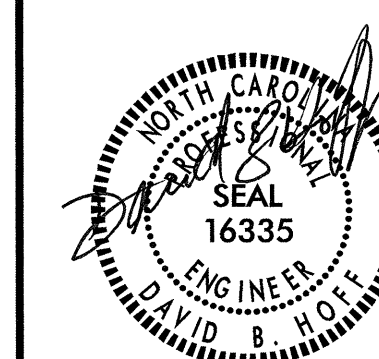
TOTAL BILL OF MATERIAL

ITEM	FOUNDATION EXCAVATION	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	STRUCTURAL STEEL	HP360 x 108 STEEL PILES	CONCRETE BARRIER RAIL	100mm SLOPE PROTECTION	ELASTOMERIC BEARINGS	POT BEARINGS	EVAZOTE JOINT SEALS	
	LUMP SUM	m ²	m ²	m ³	LUMP SUM	kg	kg	APPROX. kg	No.	m	m	m ²	LUMP SUM	LUMP SUM	LUMP SUM
SUPERSTRUCTURE	—	1626.7	2000.8	—	LUMP SUM	—	—	277260	—	—	144.016	—	LUMP SUM	LUMP SUM	LUMP SUM
END BENT #1	—	—	—	47.2	—	4180	—	—	14	305.0	—	330	—	—	—
BENT #1	LUMP SUM	—	—	119.4	—	10287	913	—	40	889.0	—	—	—	—	—
END BENT #2	—	—	—	47.2	—	4180	—	—	14	305.0	—	305	—	—	—
TOTAL	LUMP SUM	1626.7	2000.8	213.8	LUMP SUM	18647	913	277260	68	1499.0	144.016	635	LUMP SUM	LUMP SUM	LUMP SUM

PROJECT NO. R-2552AB
JOHNSTON COUNTY
 STATION: 52+34.693 -L- =
18+60.011 -Y2- BRIDGE NO. 581
 SHEET 3 OF 3



TRANSYSTEMS CORPORATION
 75 Beattie Place, Suite 400
 Greenville, SC 29601 (864) 234-0866



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 GENERAL DRAWING FOR BRIDGE
 ON NC42 OVER US-70, CLAYTON
 BYPASS, BETWEEN CLAYTON
 AND I-40 EAST

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-401
1			3			TOTAL SHEETS
2			4			429

DRAWN BY : M. T. BELISLE DATE : 4/01
 CHECKED BY : C. T. RAY DATE : 4/01

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3-18-05 3 of 31