TENNESSEE D.O.T.
DESIGN DIVISION

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Index Of Sheets

SHEET	NO.	DESCRIPTIONS
1		TITLE SHEET
2	***************************************	TYPICAL SECTIONS-(N/A)
3		PROPERTY MAP
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4A		PROPOSED LAYOUT AND PROFILE
4B		CULVERT CROSS SECTION AND DETAILS
4C		EROSION CONTROL PLAN
5		DRAINAGE MAP

TRAFFIC	DATA
ADT (2005)	9480
ADT (2025)	10480
DHV (2025)	1048
D	65 - 35
T (ADT)	4 %
T (DHV)	. 3 %
٧	55 MPH

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 1995 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

DESIGNED BY VOLKERT & ASSOCIATES, INC.

DESIGNER DOREEN A. HOWARD CHECKED BY MELINDA NYE, P.E.

P.E. NO. 98015-4233-04

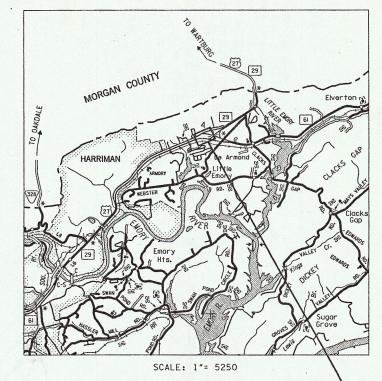
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

ROANE COUNTY

RIGHT-OF-WAY

STATE HIGHWAY NO. 29

REPAIR SMALL STRUCTURE - S.R. 29 @ LM 12.60



PROJECT NO. 73035-4205-04 (R.O.W.) — S.R. 29 @ LM 12.60

S.R. 29 LM 12.60 TOTAL

RIGHT OF WAY LENGTH: 0.082 MILES 0.082 MILES

TENN. YEAR SHEET NO. 2004 1

FED. AID PROJ. NO. 73035-4205-04



NO EXCLUSIONS
NO EQUATIONS

FOR PREL. & R.O.W FIELD REVIEW ONLY

APPROVED:

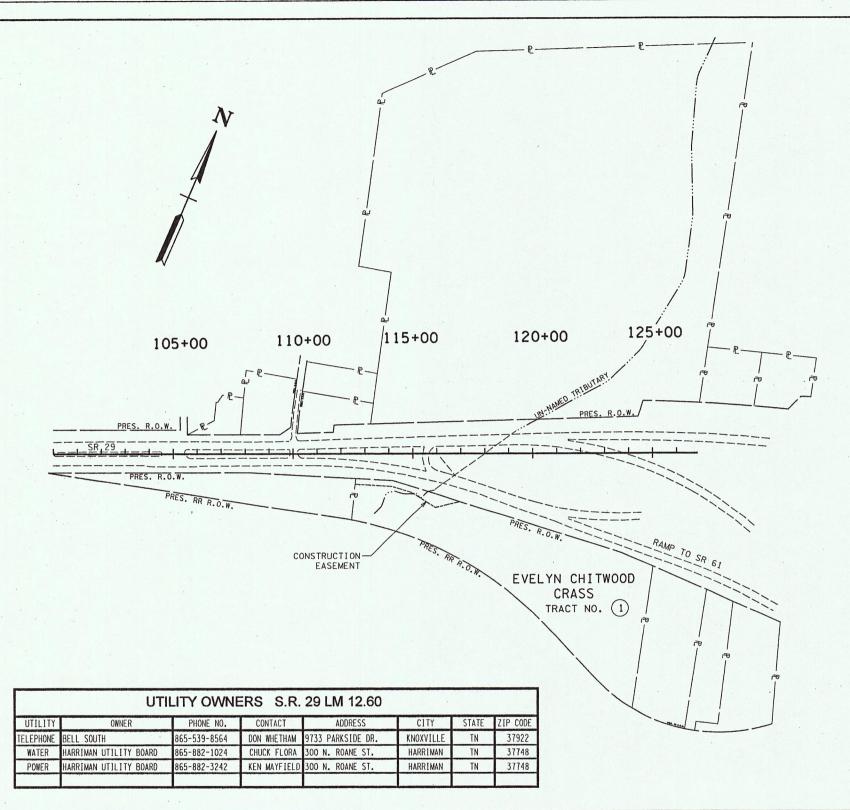
DATE:

APPROVED:

COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

DIVISION ADMINISTRATOR DATE



ROW	NOTES:	
IV. U. II.	MOILS.	

IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT, BE REMOVED THEREFROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.

ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON "RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY", STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A

WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAT 7 PERCENT.

WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.

ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.

ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.

UTILITY NOTES:

THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.

THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

	R.O.W. ACQUISITION TABLE															
TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS			TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT . (SQUARE FEET)			
		TAX	PARCEL	DEED DOCUMEN	The same of the sa	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM	SLOPE	CONST.
		MAP NO.	NO.	BK.	PAGE									DRAINAGE		
1	EVELYN CHITWOOD CRASS	11	45.00	018	8		48.500	48.500					48.500			0.295 AC
				G18	404											
				X12	192											
				J12	464											

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

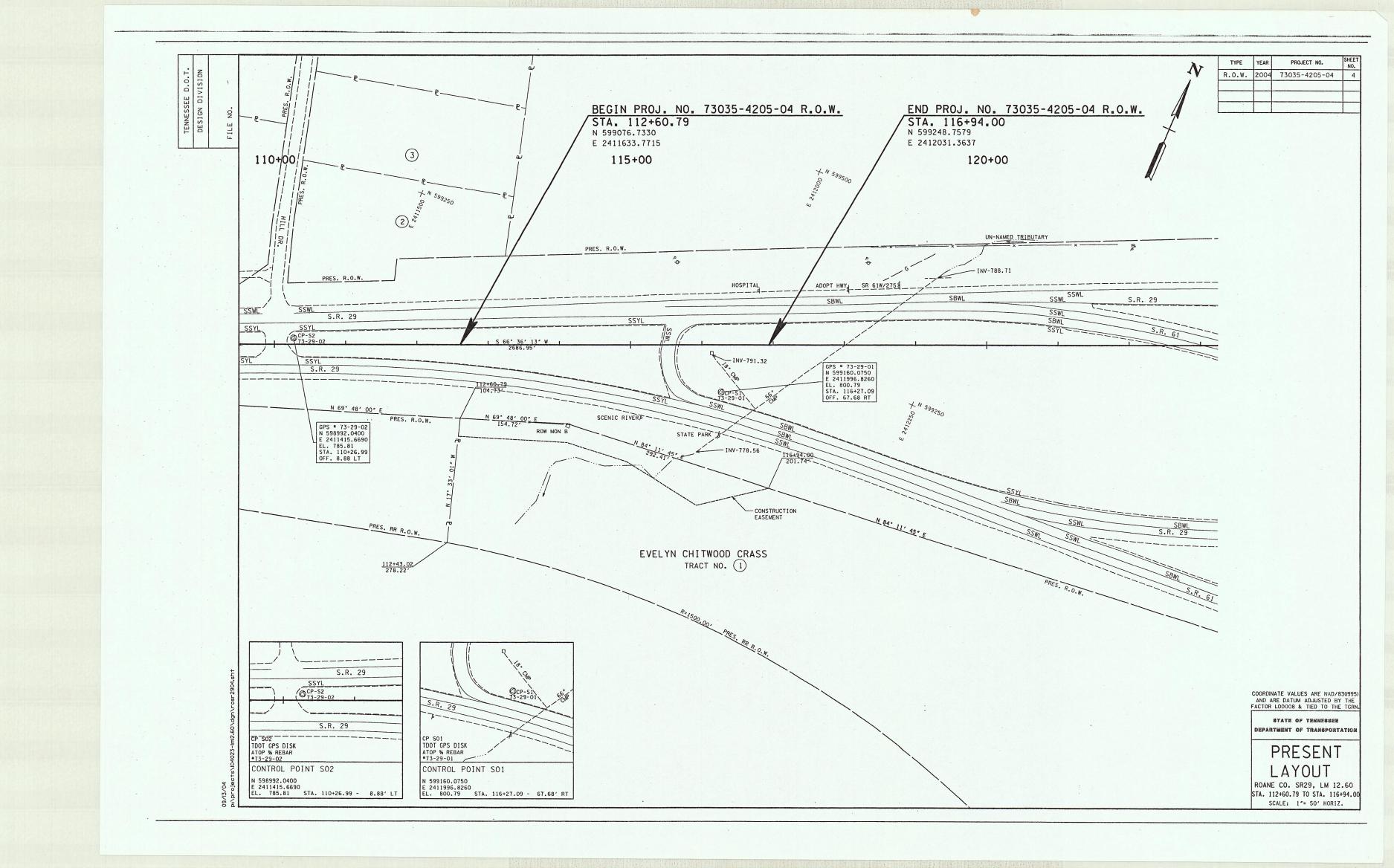
TYPE YEAR PROJECT NO.

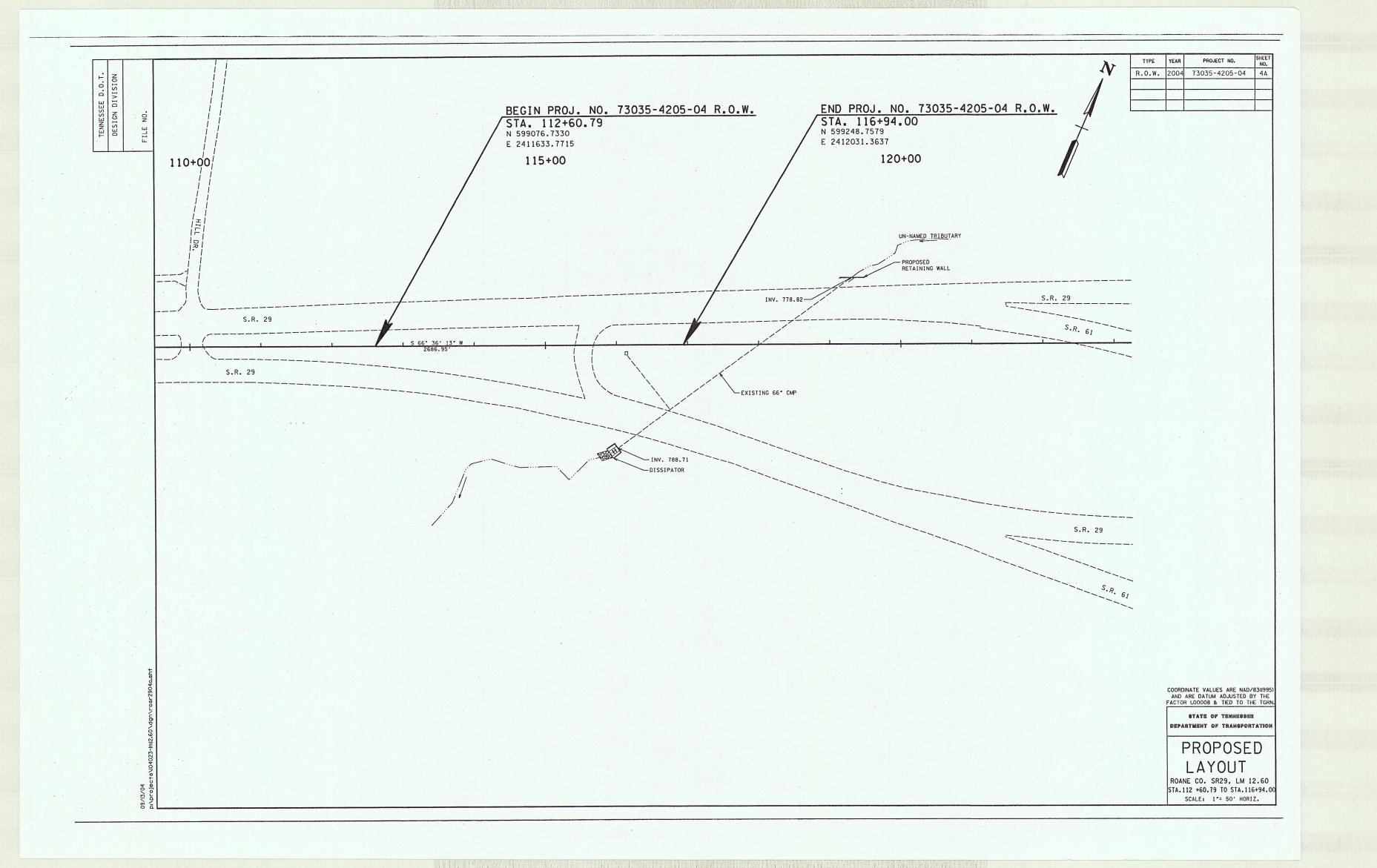
R.O.W. 2004 73035-4205-04

PROPERTY

ROANE CO. SR29, LM 12.60 SCALE: 1"=200'

09/13/04





TYPE YEAR PROJECT NO. R.O.W. 2004 73035-4205-04 FINISHING CONCRETE STRUCTURES: CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.22 OF THE TENNESSEE STANDARD SPECIFICATIONS. NO TEXTURE FINISH SHALL BE APPLIED PRIOR TO COMPLETION OF PAVING AND HAULING OPERATIONS AT THE SITE. THE COST OF FINISHING CONCRETE SHALL BE IN OTHER ITEMS. DRILLED INSERTS AND MASONRY ANCHORS: DRILLED INSERTS OR MASONRY ANCHORS SHALL NOT BE USED IN TENSION SITUATION. INSTEAD USE A DOWEL SET IN GROUT OR DRILL ALL THE WAY THROUGH WITH A BACK-UP PLATE. FOR UTILITIES ON NEW CONSTRUCTION, USE CAST IN PLACE ANCHORS. - PROPOSED DISSIPATOR -1' GAP (TYP.) 2' THICK RIP RAP - PROPOSED RETAINING WALL (SEE STD-15-12) EXISTING 66" CMP 5.50 5.50 6.36 7.39 -EXISTING 66" CMP ← 12.43′→ -#4 BARS @ : TIE TO EXISTING GRADE - EXISTING STRUCTURE _EL. 786.82 EXISTING 66" CMP -#4 BAR @5'-10" EXISTING 66" CMP -0.25' (TYP.) *4 BARS @ 12" O.C. HORIZONATAL AND VERTICAL 0.75' 3.50 *4 BARS @ 12" O.C.-SECOND BAFFLE (2.11' HIGH)-1' GAP > 3.00' FIRST BAFFLE (1.06' HIGH) END SILL (0.43' HIGH)—
CUT OFF WALL -- 10.50'----UPSTREAM RETAINING WALL ELEVATION SCALE: NTS DISSIPATOR REINFORCING STEEL DETAIL
SCALE: NTS FRONT DISSIPATOR ELEVATION SIDE DISSIPATOR ELEVATION SCALE: 1"=5" SCALE: 1"=5" 820 820 - S.R. 29 NORTH CENTERLINE STA. 116+49.84 EL. 802.21 S.R. 29 SOUTH CENTERLINE — STA. 118+79.69 EL. 803.13 810 FXISTING GRADE 800 800 PROPOSED RETAINING WALL-790 790 2.42 780 STATION 118+01.44 INV.

STRUCTURE SKEW 32.8* LT. AND 52* LT.

DRAINAGE AREA 118 AC.

770 DESIGN DISCHARGE (Q50) 141 CFS

DESIGN DISCHARGE (Q100) 169 CFS

OVERTOPPING ELEV. 803.13

ALLOWABLE HEADWATER ELEV. 793.51

Q100 HEADWATER ELEV. 794.11

VELOCITY (Q50) 12.69 FT/S

VELOCITY (Q100) 12.41 FT/S

INLET ELEVATION 788.71

OUTLET ELEVATION 788.71

OUTLET CLEVATION 788.71

TOUTLET CLEVATION 788.71

OUTLET DRAWING NUMBERS STD-15-12

INLET DRAWING NUMBERS STD-15-12

INLET DRAWING NUMBERS STD-15-12

OUTLET DRAWING NUMBERS NA CLASS 'A' CONCRETE 28 C.Y.

STEEL BAR REINFORCING 1508 LB.

FOUNDATION FILL MATERIAL 3 C.Y. . 778.70 1.00% CLASS P 780 2' THICK RIP RAP EXISTING 66"CMP-INV. 778.82 770 PROPOSED DISSIPATOR-STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION **CUL VERT** CROSS-SECTION NA 28 C.Y. 1508 LB. L 3 C.Y. C.P. NO. SO2 EL. 785.81 TDOT GPS DISK #73-29-02 STA. 110+ 26.99 (8.88' LT. C.P. NO. SO1 EL 800.79 TDOT GPS DISK #3-29-01 STA. 116+ 27.09 (67.68' RT.) AND DETAILS ROANE CO. SR 29, LM 12.60 SCALE: 1"=10' HORIZ. 1"=10' VERT.

