TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.	BRZE-8400(63)	
STATE PROJ. NO.	84035-3406-94	

INDEX OF SHEET - CONST.
SEE SHEET IA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TIPTON COUNTY

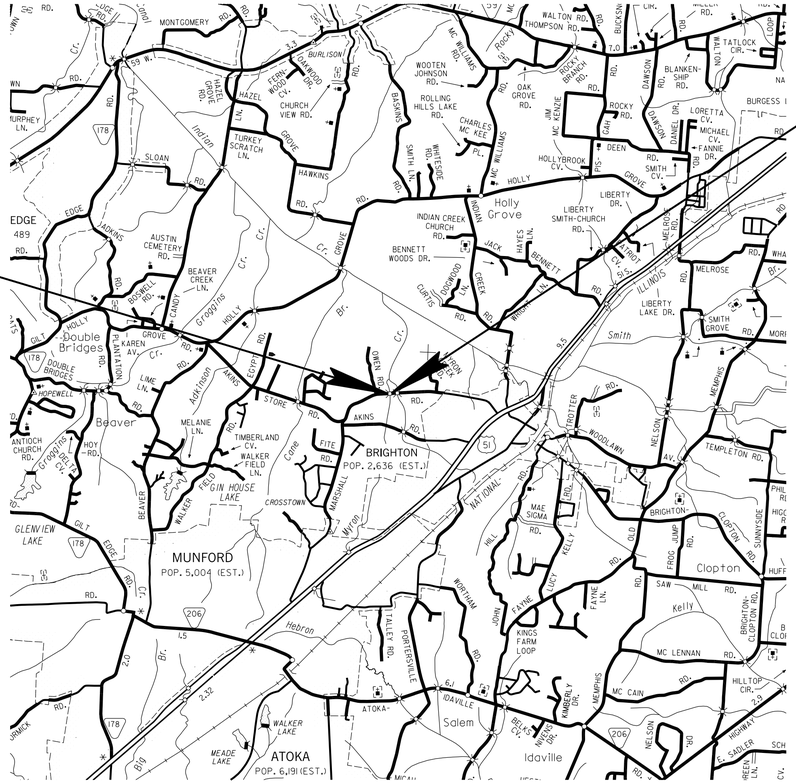
MARSHALL ROAD, BRIDGE OVER MYRON CREEK, L.M. 2.87

CONSTRUCTION

STATE HIGHWAY NO. NA F.A.H.S. NO. NA

84035-3406-94
END PROJ. NO. BRZE-8400(63) CONST.
STA. 51+65.00
N 443301.8447
E 850304.2833

84035-3406-94
BEGIN PROJ. NO. BRZE-8400(63) CONST.
STA. 48+85.00
N 443285.2134
E 850024.7785



SCALE: 1"= 1 MILE

NO EXCLUSIONS
NO EQUATIONS

ROAD TO BE CLOSED DURING CONSTRUCTION

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

APPROVED: Paul D. Degges
PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

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, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TRAN. PROJ. SP. SV.2 ROBERT BRAUN, P.E.

DESIGNER KAMIRAN DOSKI CHECKED BY RANDY DUKE

P.E. NO. 84035-1406-94 (DESIGN)

PIN NO. 103973.00

ROADWAY LENGTH	0.053 MILES
BRIDGE LENGTH	0.000 MILES
*BOX BRIDGE LENGTH	0.009 MILES
PROJECT LENGTH	0.053 MILES

* NOT INCLUDED IN PROJECT LENGTH

TRAFFIC DATA	
ADT (2014)	690
ADT (2034)	1040
DHV (2034)	135
D	65 - 35
T (ADT)	2 %
T (DHV)	1 %
V	50 MPH

SURVEY RECEIVED 04/18/2013

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

31-JUL-2014 15:00
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	BRZE-8400(63)	1A

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"NO PROJECT COMMITMENTS SHEET INCLUDED IN THIS SET OF PLANS"

STANDARD BRIDGE DRAWINGS

DWG. NO.	REV.	DESCRIPTION
STD-10-1	4-08-05	MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS
STD-15-4	12-07-01	TYPICAL SECTION AND DETAILS
STD-15-9	2-28-03	TYPICAL WINGWALL DETAILS AND NOTES
STD-15-10	11-06-08	WINGWALL DIMENSIONS AND QUANTITIES
STD-15-16A		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET
STD-17-84		BOX BRIDGE, 2 BARRELS AT 16', CLEAR HTS. 13' - 16', 0 - 60' FILL

ROADWAY DESIGN STANDARDS

RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS

DRAINAGE - CULVERTS AND ENDWALL

D-PB-1	01-02-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION

ROADWAY AND PAVEMENT APPURTENANCES

RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS

SAFETY APPURTENANCES AND FENCE

S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-2		SAFETY PLAN AT SIDE ROADS OR PRIVATE DRIVES
S-GRS-2		MEDIAN DIVIDER GUARDRAIL
S-GRT-3		TYPE 21 GUARDRAIL TERMINAL
S-GRT-3D		TYPE 21 GUARDRAIL TERMINAL (DETAILS)
S-GRT-3P		EARTH PAD FOR TYPE 21 TERMINAL
S-CZ-1		CLEAR ZONE CRITERIA

TRAFFIC CONTROL APPURTENANCES

T-M-1	11-01-11	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	08-01-12	ROCK CHECK DAM
EC-STR-6A	08-01-12	ENHANCED ROCK CHECK DAM
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-31	08-01-12	TEMPORARY DIVERSION CHANNEL
EC-STR-31A	04-01-08	TEMPORARY DIVERSION CHANNEL DESIGN
EC-STR-37	08-01-12	SEDIMENT TUBE

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INDEX AND STANDARD DRAWINGS

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	BRZE-8400(63)	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(10)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	609
	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	242
	203-06	WATER	M.G.	11
	203-08	CHANNEL EXCAVATION (UNCLASSIFIED)	C.Y.	312
	204-08	FOUNDATION FILL MATERIAL	C.Y.	65
	209-05	SEDIMENT REMOVAL	C.Y.	15
(1)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	1688
	209-08.07	ROCK CHECK DAM	EACH	2
	209-08.08	ENHANCED ROCK CHECK DAM	EACH	4
(6) (2)	209-09.01	SANDBAGS	BAG	350
	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	1
(4)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	340
	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	160
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	493
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	412
(9)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	11
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	118
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	77
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	1
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	4
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	1
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	67
	705-01.04	METAL BEAM GUARD FENCE	L.F.	75
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	184
	705-04.04	GUARDRAIL TERMINAL (TYPE 21)	EACH	2
	705-04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	1
(2)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	300
(8)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	78
(7)	709-05.06	MACHINED RIP-RAP (CLASS C)	TON	153
	712-01	TRAFFIC CONTROL	LS	1
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	8
	712-06	SIGNS (CONSTRUCTION)	S.F.	324
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	88
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	0.056
	717-01	MOBILIZATION	LS	1
(5)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	266
(2)	740-11.04	TEMPORARY SEDIMENT TUBE 20IN (EROSION CONTROL)	L.F.	400
	801-01	SEEDING (WITH MULCH)	UNIT	24
(6)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	13
(3)	801-03	WATER (SEEDING & SODDING)	M.G.	27
	803-01	SODDING (NEW SOD)	S.Y.	2654
(6)(2)	805-12.03	EROSION CONTROL BLANKET (TYPE III)	S.Y.	860

ESTIMATED BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
202-04.05	REMOVAL OF STRUCTURES (29', 1 SPAN CONCRETE BRIDGE, STA. 50+28)	LS	1
604-02.01	CLASS A CONCRETE (BOX BRIDGES)	C.Y.	93
604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB.	11,836

FOOTNOTES

(1) INCLUDES 97 LF FOR SEDIMENT FILTER BAGS.
(2) TO BE USED AS DIRECTED BY THE PROJECT ENGINEER.
(3) INCLUDES 2 M.G. FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(4) TO BE USED AS DIRECTED BY THE ENGINEER FOR EROSION CONTROL.
(5) INCLUDES 172 SY FOR TEMPORARY CONSTRUCTION EXIT, AND 75 FOR FILTER BAGS.
(6) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REQUIREMENT.
(7) AROUND THE BOX BRIDGE.
(8) FOR TEMPORARY CONSTRUCTION EXIT.
(9) USED FOR SEDMENT FILTER BAG
(10) 44 C.Y. FOR TEMPORARY CONSTRUCTION EXIT.

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ESTIMATED ROADWAY QUANTITIES

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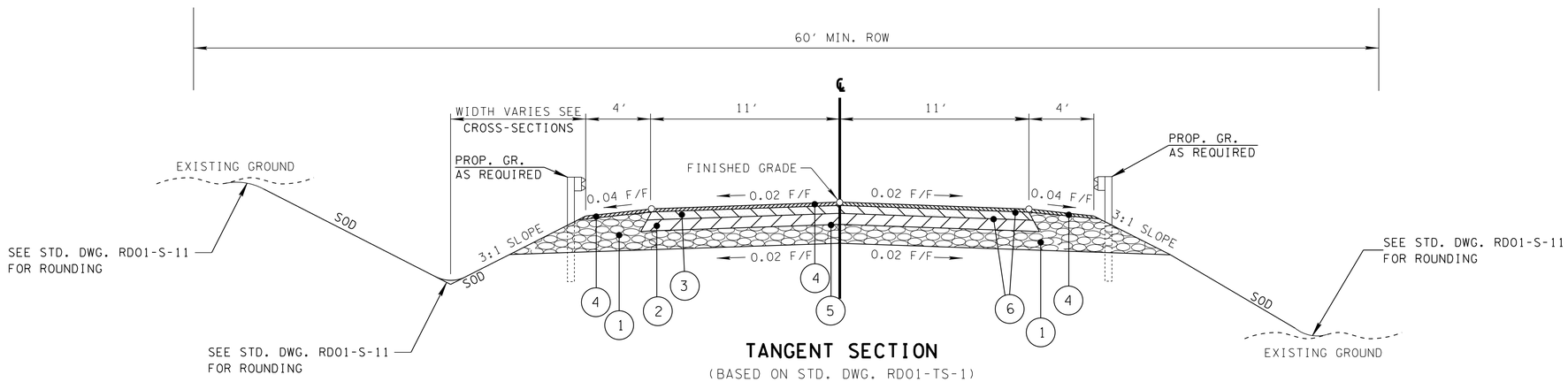
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BRZE-8400(63)	2
CONST.	2014	BRZE-8400(63)	2A

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

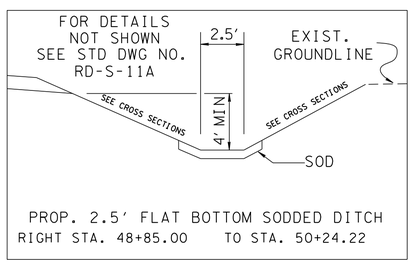


TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-1)

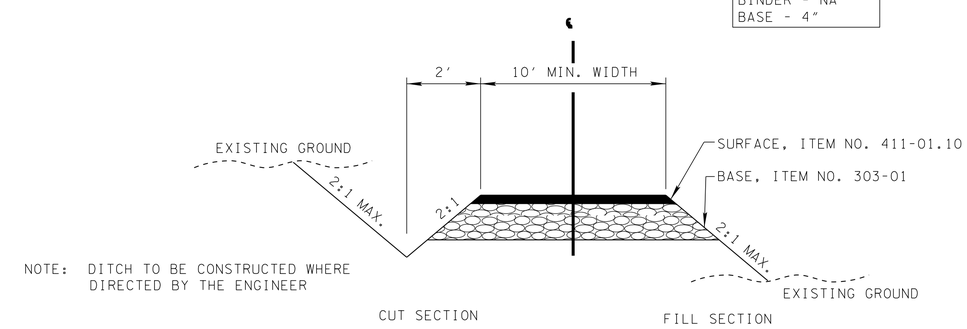
STA. 48+85.00 TO STA. 51+65.00

MARSHALL ROAD



FIELD OR RESIDENTIAL

SURFACE - 1½"
BINDER - NA
BASE - 4"



NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS, FIELD, OR RESIDENTIAL PROPERTY

PROPOSED PAVEMENT SCHEDULE

(1) MINERAL AGGREGATE BASE @ 8" THICK 303-01 MINERAL AGGREGATE, TYPE "A" BASE	(4) ACS MIX @ 1.25" THICK 411-01.10 GRADING "D" SURFACE (PERFORMANCE PG64-22)
(2) BITUMINOUS BASE AC @ 3.00" 307-01.01 GRADING "A" BASE MIX (PERFORMANCE PG64-22)	(5) PRIME COAT 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) 0.3-0.35 GAL/SY 402-02 AGGREGATE FOR COVER MATERIAL (PC) 8-12 LBS/SY
(3) BINDER AC @ 2.00" THICK 307-01.08 GRADING "B-M2" BASE MIX (PERFORMANCE GRADING PG64-22)	(6) TACK COAT 403-01 BITOMINOUS MATERIAL FOR TACK COAT (TC) 0.07 GAL/SY

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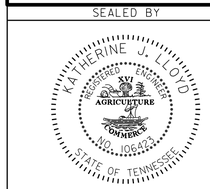

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVING SCHEDULE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	BRZE-8400(63)	2B

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE 0F THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

(2) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

(1) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

(2) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

GUARDRAIL

(1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

DRAINAGE

(1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(2) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(3) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

(4) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

UTILITIES

(1) 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.

(2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S 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.

(3) 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.

(4) 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 CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

(5) 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.

MISCELLANEOUS

(1) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA

PAVEMENT MARKINGS

FINAL PAVEMENT MARKING IF REFLECTORIZED PAINT IS USED

(1) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01 PAINTED PAVEMENT MARKING (4IN LINE), L.M.

ROAD CLOSURE

(1) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

(2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

(3) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

(4) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	BRZE-8400(63)	2C

EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

(1) AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

(2) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS INSTALLED.

(3) CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

(4) ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.

(5) CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS AND SHALL BE PHASED FOR PROJECTS THAT HAVE OVER 50 ACRES OF SOIL DISTURBANCE. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION PROJECT, UNLESS APPROVED IN WRITING BY THE ENVIRONMENTAL DIVISION.

SEDIMENT CONTROL

(1) EPSC MEASURES SHALL BE INSTALLED CONCURRENTLY WITH CLEARING OPERATIONS, SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

(2) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.

(3) WATER PUMPED FROM WORK AREAS AND EXCAVATION MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE INTO SURFACE WATERS. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL-VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASIN AND IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

(4) CHECK DAMS SHALL BE USED WHERE RUNOFF IS CONCENTRATED. CLEAN ROCK, BRUSH, GABION, OR SANDBAG CHECK DAMS SHALL BE PROPERLY CONSTRUCTED TO REDUCE VELOCITY AND CONTROL EROSION.

(5) FOR AN OUTFALL IN A DRAINAGE AREA OF 10 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

(6) IF PERMANENT OR TEMPORARY VEGETATION IS TO BE USED AS AN EPSC MEASURE, THEN THE TIMING OF PLANTING OF VEGETATION SHALL BE SHOWN IN THE SWPPP. DELAYING PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

(7) OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ACCESS (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED, AS NEEDED, TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

(8) TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY.

STREAM / WETLAND

(1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT WATER QUALITY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS IN ACCORDANCE WITH TDOT STANDARDS. THEY MUST BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.

(2) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.

(3) INSTREAM EPSC DEVICES REQUIRED THE ENVIRONMENTAL DIVISION'S PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN TDEC, USACE, AND TVA PERMITS.

(4) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS, SHALL BE ONLY AS SHOWN ON THE PROJECT PLANS AND/OR AS SO SPECIFIED IN THE ARAP/401, SECTION 404 PERMIT(S) AND/OR TVA26(A), IF APPLICABLE. ANY ADDITIONAL PERMITS REQUIRED BY THE CONTRACTOR'S METHOD OF OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AFTER RECEIVING THE APPROVAL OF TDOT ENVIRONMENTAL DIVISION.

(5) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING.

(6) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CROSSINGS MUST BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES MUST BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK MUST BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS MUST BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO THEIR PREEXISTING ELEVATION. ALL TEMPORARY CROSSINGS MUST BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. NO. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.

(7) HEAVY EQUIPMENT WORKING IN WETLANDS MUST BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT MUST BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED.

(8) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS PROVIDED FOR IN THE PLANS.

INSPECTION, MAINTENANCE, REPAIR

(1) EPSC CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES.

(2) INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES/STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.

(3) SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND BE TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.

(4) THE CONTRACTOR SHALL INSTALL A RAIN GAUGE EVERY LINEAR MILE AT ALL SITES WHERE CLEARING, GRUBBING, EXCAVATION, GRADING CUTTING OR FILLING IS BEING ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED. IF THE PROJECT LENGTH IS LESS THAN ONE LINEAR MILE, ONE RAIN GAUGE SHALL BE INSTALLED AT THE CENTER OF THE PROJECT OR AS INDICATED BY THE TDOT EPSC INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT EACH GAUGE IS MAINTAINED IN GOOD WORKING CONDITION. TDOT AND/OR THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION AND FORECASTED PERCENTAGE OF PRECIPITATION IN DETAILED RECORDS OF RAINFALL EVENTS INCLUDING DATES, AMOUNTS OF RAINFALL PER GAUGE, THE ESTIMATED DURATION (OR STARTING AND ENDING TIMES), AND FORECASTED PERCENTAGE OF PRECIPITATION FOR THE PROJECT. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER ON A MONTHLY BASIS. THE COST FOR THE RAIN GAUGES IS TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER ITEMS. RAIN GAUGES SHALL BE AS SPECIFIED IN THE APPROVED TDOT RAINFALL MONITORING PLAN.

(5) INSPECTION OF EPSC MEASURES SHALL BE DONE AT LEAST TWICE PER CALENDAR WEEK AT LEAST 72 HOURS APART. A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY.

(6) OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO SURROUNDING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

(7) UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE TIMEFRAME, WRITTEN DOCUMENTATION MUST BE PROVIDED IN THE FIELD BOOK AND AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.

MATERIALS

(1) WASTE AND BORROW AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPDES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.

PERMITS, PLANS, RECORDS

(1) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS.

(2) ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT ENGINEER. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(3) THE FOLLOWING INFORMATION SHALL BE MAINTAINED ON OR NEAR THE SITE: DATES THAT MAJOR GRADING ACTIVITIES OCCUR, DATES WHERE CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN STABILIZATION MEASURES ARE INITIATED, EPSC INSPECTION RECORDS AND PRECIPITATION RECORDS.

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DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	BRZE-8400(63)	2D

(4) ALL WATER QUALITY AND STORM WATER PERMITS, SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE.

(5) CONSTRUCTION ACTIVITY. THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED WHEN MAJOR DESIGN REVISIONS ARE REQUESTED BY CONSTRUCTION. THE ENVIRONMENTAL DIVISION MAY BE CONTACTED FOR GUIDANCE ON SPECIFIC SWPPP NEEDS.

(6) PROJECT INSPECTORS AND SUPERVISORS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EPSC PLANS SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL I - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. A COPY OF CERTIFICATION RECORDS FOR THIS COURSE SHALL BE KEPT ON SITE AND AVAILABLE UPON REQUEST.

LITTER, DEBRIS, WASTE, PETROLEUM

(1) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS. AFTER USE, MATERIALS USED FOR EPSC WILL BE REMOVED FROM THE SITE.

(2) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR

ENVIRONEMTAL

ECOLOGY

(1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING CONCERNING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR DESIGNATED CONSULTANT WILL NEED TO BE ON-SITE FOR WORK BEING DONE WHICH COULD AFFECT THE STREAM OR SPECIEC.

(2) STAFF FROM THE TDOT ENVIROMENTAL DIVISION OR A DESIGNEE WILL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECT WHICH HAVE THREATENED OR ENDANGERED SPEIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED BRIDGE WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECUATION WHICH MUST BE FOLLOWED.

(3) ALL BRIDGE PROJECTS WITH THREATENED ENDANGERED SPECIES OR CRITICSL HABITAT IDENTIFIED MUST HAVE MEASURES IN PLACED TO CONTAIN CONCRATE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER THE STREAM.

PERMITS AND RECORDS

(1) THE PROJECT WILL NOT DISTURB MORE THAN 1 ACRE.

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DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	BRZE-8400(63)	2E

BOX BRIDGE TABULATION

STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA ACRES	BOX CULVERT: BOX CLASS "A" CONC. CU. YD.	BOX REINF. STEEL LBS.	APRON CLASS "A" CONC. CU. YD.	APRON WIRE FABRIC LBS.	APRON STEEL BAR REINF. LBS.	CULVERT EXC. CU. YD.	DRAWING NO.	BACKFILLING ITEM 303-01.01 DWG. STD-10-1 TONS	FOUNDATION FILL MATERIAL CU. YD.
50+28.00	Marshall Road	2@16'	15'	52'	75^ RT	3002	93	11836				129		412	65
TOTALS							93	11836	0	0	0	129		412	65

ESTIMATED GRADING QUANTITIES

STATION TO STATION	ROAD & DRAINAGE EXC. (UNCL.) COMMON - C.Y.	ROAD & DRAINAGE EXC. (UNCL.) S. ROCK - C.Y.	BORROW EXCAVATION UNCL. - C.Y.	BORROW EXCAVATION S. ROCK - C.Y.	CHANNEL EXC. C.Y.	EXCESS EXC. WASTE C.Y.	EMB. C.Y.
48+63.70 to 51+50.00	565		242		312		767
TOTALS	565	0	242	0	312	0	767

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE LT	SIDE RT	STATION FROM	STATION TO	SINGLE TYPE 2 705-02.02 (L.F.)	GUARDRAIL TYPE 21 705-04.04 (EACH)	GUARDRAIL TYPE IN-LINE 705-04.05 (EACH)	GUARDRAIL METAL BEAM GUARD FENCE 705-01.04 (L.F.)	REMARKS
4B	MARSHALL RD	X		49+05.23	49+30.23		1			
4B	MARSHALL RD	X		49+30.23	50+05.23	75.00				
4B	MARSHALL RD	X		50+05.23	50+42.73				37.5	
4B	MARSHALL RD	X		50+42.73	50+57.46	15.00				TIE TO EXISTING GUARDRAIL
4B	MARSHALL RD		X	49+13.38	49+38.38		1			
4B	MARSHALL RD		X	49+38.38	50+13.26	75.00				
4B	MARSHALL RD		X	50+13.26	50+50.76				37.5	
4B	MARSHALL RD		X	50+50.76	50+69.72	19.00				
4B	PRIVATE ROAD		X	50+69.72	50+83.22			1		
TOTALS						184.00	2	1	75	

PAVEMENT QUANTITIES

LOCATION	303-01 (TON)	307-01.01 (TON)	307-01.08 (TON)	402-01 (TON)	402-02 (TON)	403-01 (TON)	411-01.10 (TON)
MARSHALL RD	477.0	118.0	77.0	1.0	4.0	1.0	62.0
PVT. DRIVE	16.0						5.0
TOTALS	493.0	118.0	77.0	1.0	4.0	1.0	67.0

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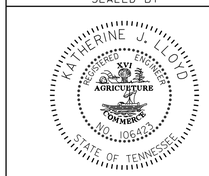

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUNTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

RIGHT - OF - WAY NOTES

(1) 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 THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. 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.

(2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIC AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THI 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.

(3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.

(4) 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 THAN 7 PERCENT.

(5) 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.

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

(7) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

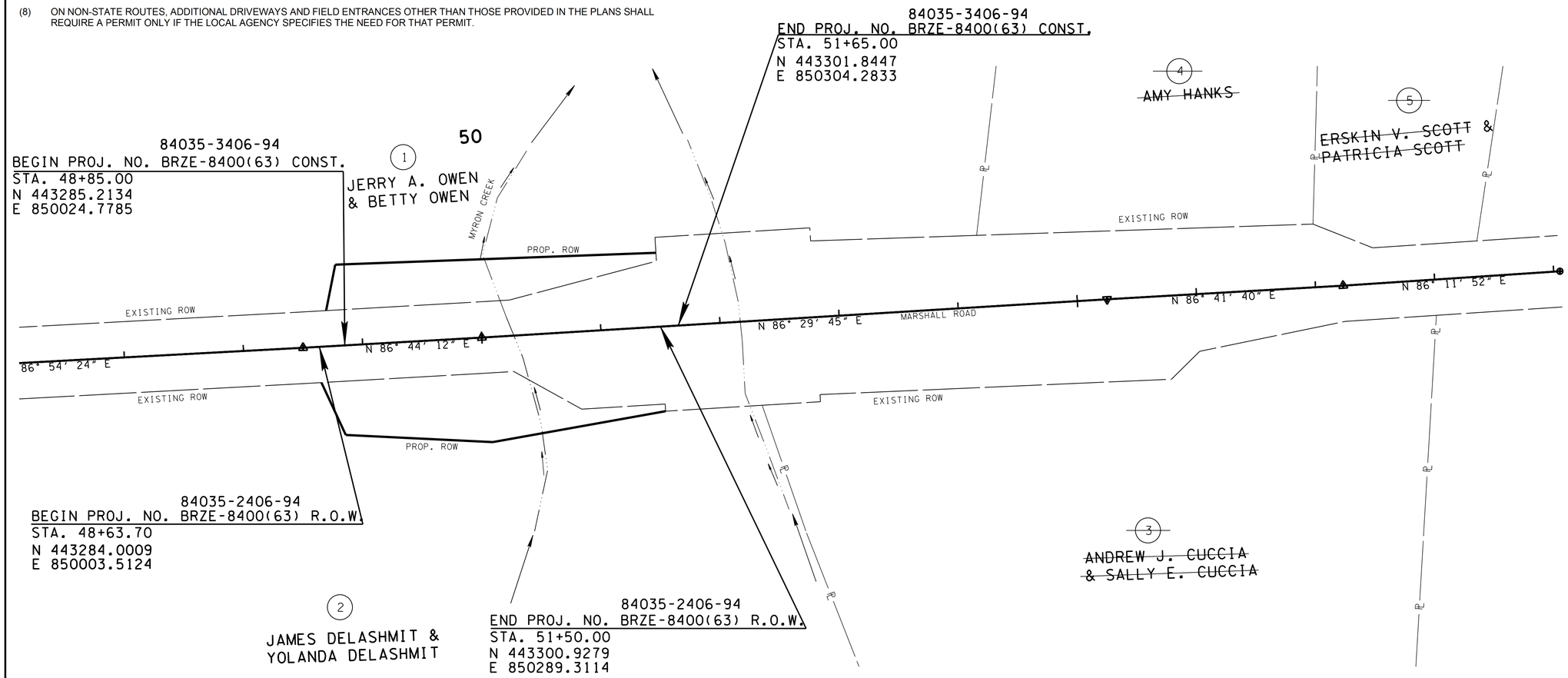
(8) ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.

UTILITY OWNERS

UTILITY	OWNER	PHONE NO.	CONTACT	ADDRESS	CITY	STATE	ZIP CODE
TELEPHONE	MILLINGTON TELEPHONE CO.	901-872-5212	JIM SITTER	4880 NAVY ROAD	MILLINGTON	TN	38053
GAS	MUNFORD WATER DEPT.	901-301-9286	MARK WALKER	74 WATER STREET	MUNFORD	TN	38058
ELECTRIC	SOUTHWEST TN ELECTRIC MEMBERSHIP	731-772-3699	BILLY GORDON	1009 E. MAIN STREET	BROWNSVILLE	TN	38012
CABLE TV	MILLINGTON CABLE TV	901-872-3600	HOLLY STARNES	5115 EASLEY STREET	MILLINGTON	TN	38053

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BRZE-8400(63)	3
CONST.	2014	BRZE-8400(63)	3

REV. 8/15/2013: CHANGE BK NO. AND PAGE NO. FOR TRACT NO. 1, AND MAP NO. FOR TRACT NO. 2



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 MAP NO.	PARCEL NO.	DEED DOCUMENT BK.	DEED DOCUMENT PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM DRAINAGE	SLOPE	CONST.
1	JERRY A. OWEN ETUX BETTY JO	80	3	RB 1059	RB 739	25.790		25.790	0.185		0.185	25.605				
2	JAMES W. DELASHMIT ETUX YOLANDA	81	13	235	503-504		116.340	116.340		0.242	0.242		116.098			
3	ANDREW J. CUCCIA ETUX SALLY E.	80	4.11	669	403-405		4.494	4.494					4.494			
4	AMY L. HANKS	80	4.13	650	500	4.634		4.634				4.634				
5	ERSKIN V. SCOTT ETUX PATRICIA	80	4.14	798	477-479	1.892		1.892				1.892				

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XIV
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP AND ACQUISITION TABLE

STA. 46+00 TO STA. 59+05
SCALE: 1"=50'

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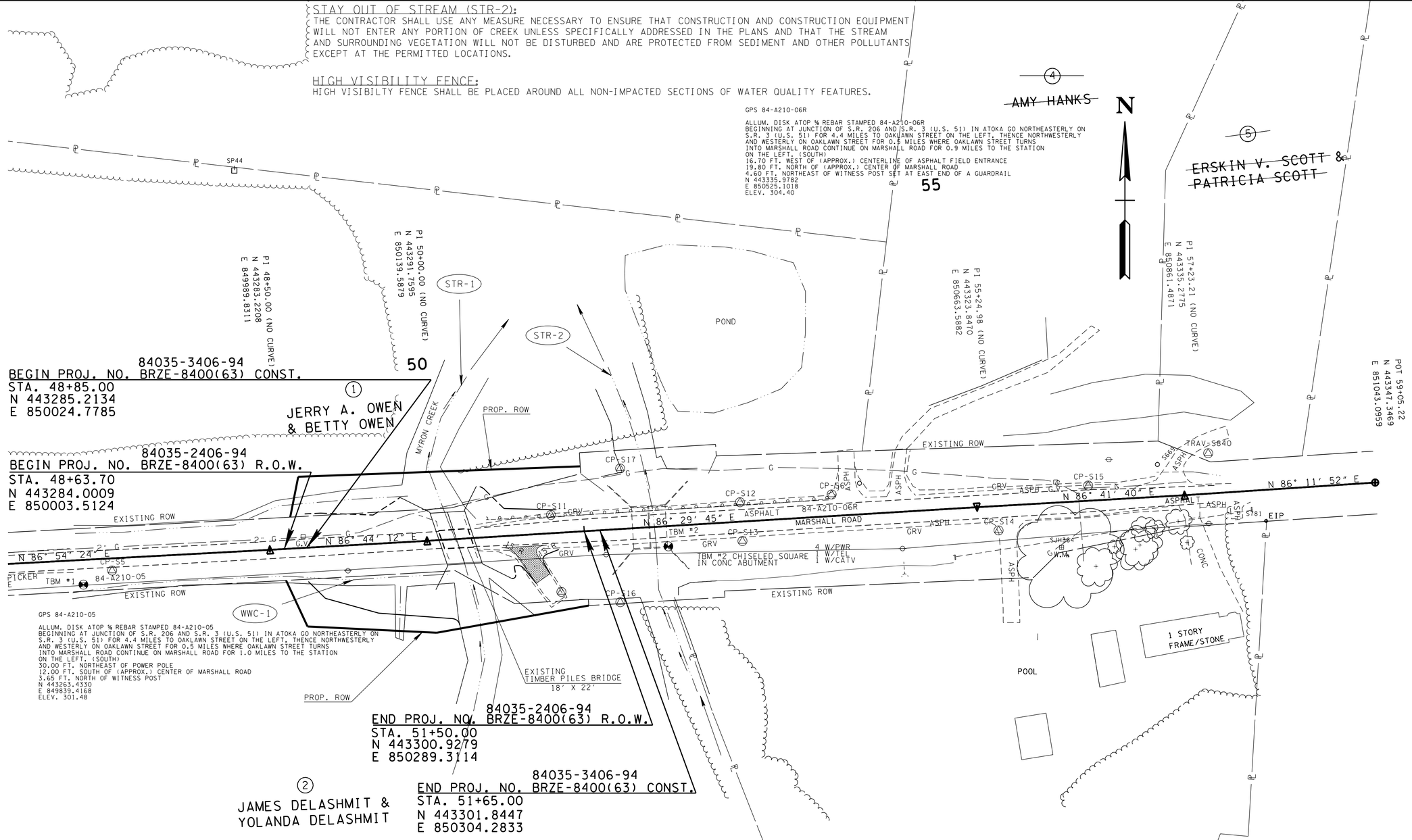
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BRZE-8400(63)	4
CONST.	2014	BRZE-8400(63)	4

STAY OUT OF STREAM (STR-2):
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF CREEK UNLESS SPECIFICALLY ADDRESSED IN THE PLANS AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

HIGH VISIBILITY FENCE:
HIGH VISIBILTY FENCE SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES.



CONTROL POINTS ALONG MARSHALL ROAD

	NORTHING	EASTING	ELEVATION (FT.)	STATION	OFFSET (FT)
CP-S5	443263.4330	849839.4170	301.48	46+98.73	11.64
CP-S6	443335.9780	850525.1020	304.40	53+87.49	-20.57
CP-S10	443243.0750	850267.5700	296.90	51+24.76	56.42
CP-S11	443316.4540	850257.6030	301.92	51+19.30	-17.44
CP-S12	443328.5940	850437.7500	303.45	52+99.85	-18.54
CP-S13	443291.5750	850440.1060	303.16	52+99.94	18.55
CP-S14	443301.7140	850684.1870	308.46	55+44.27	23.28
CP-S15	443344.5110	850769.5950	313.99	56+32.00	-14.52
CP-S16	443233.3180	850323.7380	296.81	51+80.23	69.59
CP-S17	443360.7630	850323.5570	296.23	51+87.84	-57.63

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LOYD
REGISTERED ENGINEER
XVI AGRICULTURE COMMERCE
NO. 106422
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 46+00 TO STA. 59+05

SCALE: 1"= 50'

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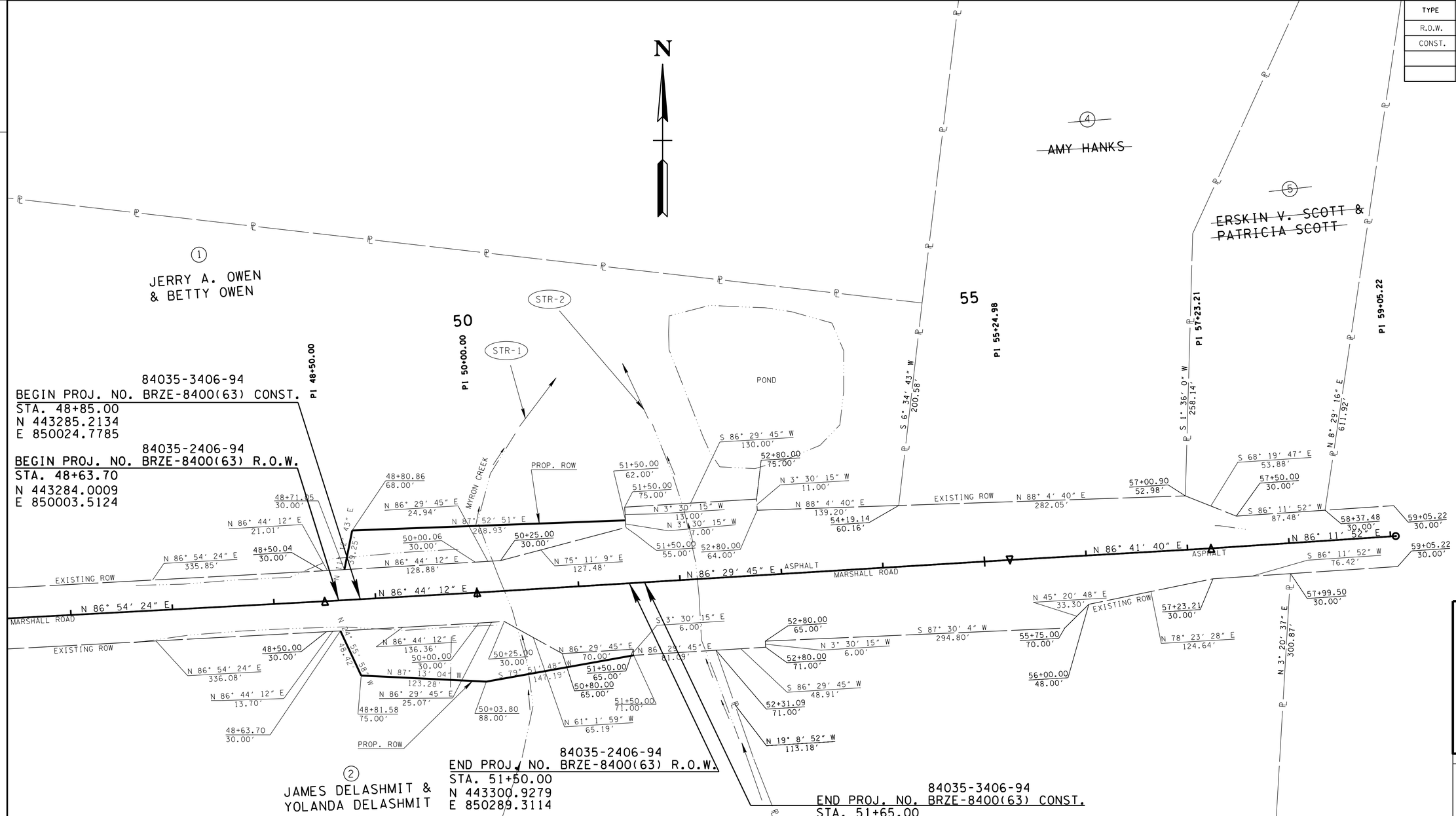
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BRZE-8400(63)	4A
CONST.	2014	BRZE-8400(63)	4A



CONTROL POINTS ALONG MARSHALL ROAD

	NORTHING	EASTING	ELEVATION (FT.)	STATION	OFFSET (FT)
CP-S5	443263.4330	849839.4170	301.48	46+98.73	11.64
CP-S6	443335.9780	850525.1020	304.40	53+87.49	-20.57
CP-S10	443243.0750	850267.5700	296.90	51+24.76	56.42
CP-S11	443316.4540	850257.6030	301.92	51+19.30	-17.44
CP-S12	443328.5940	850437.7500	303.45	52+99.85	-18.54
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CP-S15	443344.5110	850769.5950	313.99	56+32.00	-14.52
CP-S16	443233.3180	850323.7380	296.81	51+80.23	69.59
CP-S17	443360.7630	850323.5570	296.23	51+87.84	-57.63

UNOFFICIAL SET

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AGRICULTURE
&
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NO. 106422
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA. 46+00 TO STA. 59+05

SCALE: 1"= 50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BRZE-8400(63)	4B
CONST.	2014	BRZE-8400(63)	4B

STAY OUT OF STREAM (STR-2):

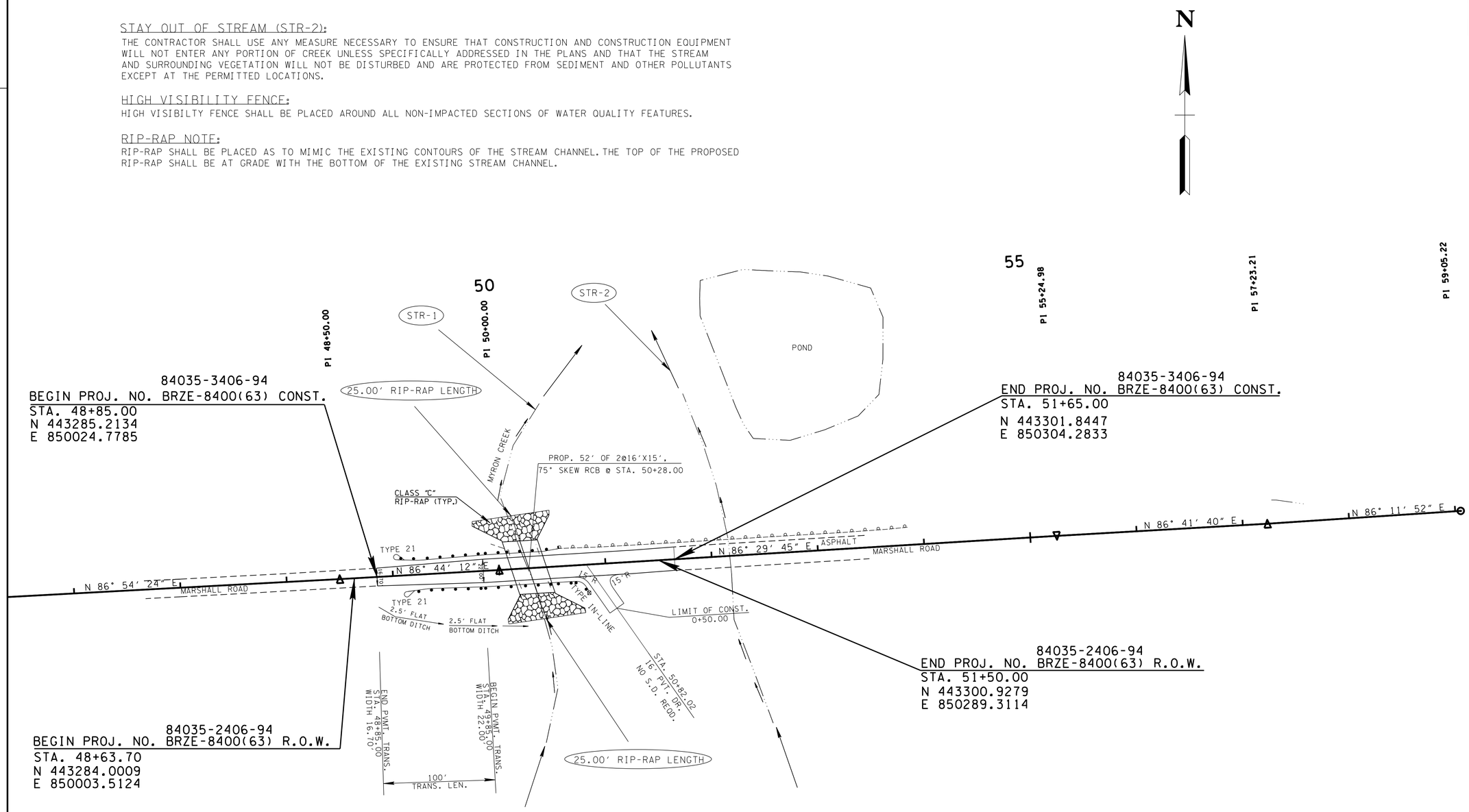
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF CREEK UNLESS SPECIFICALLY ADDRESSED IN THE PLANS AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

HIGH VISIBILITY FENCE:

HIGH VISIBILTY FENCE SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES.

RIP-RAP NOTE:

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.



SEE STD. DWG. STD-15-16A
FOR "LOW FLOW CHANNEL CONSTRUCTION
DETAILS FOR CULVERT INLET AND OULET"

UNOFFICIAL SET

NOT FOR BIDDING

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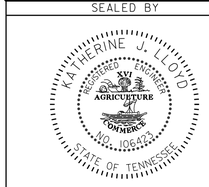

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 46+00 TO STA. 59+05

SCALE: 1"= 50'

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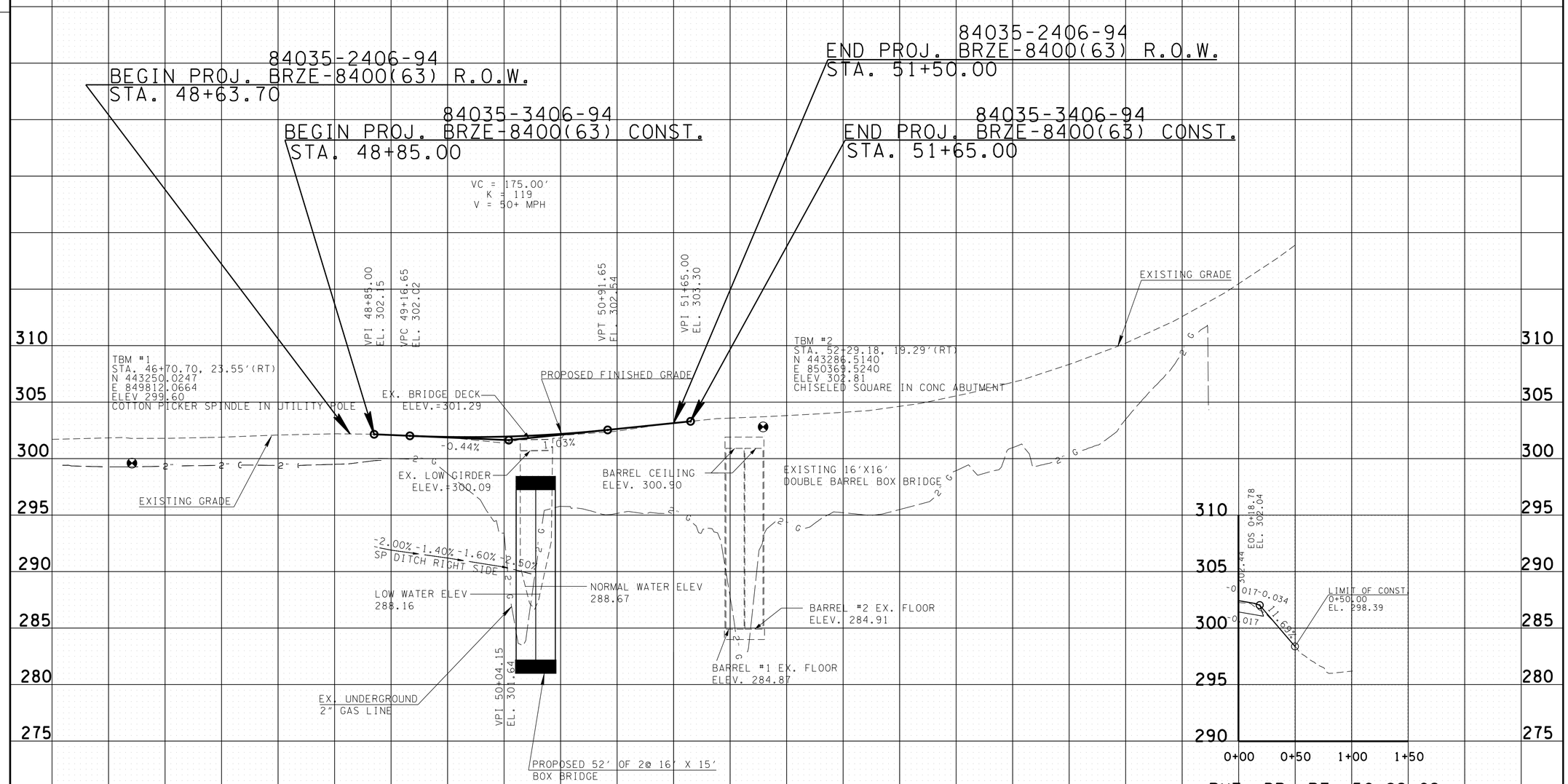
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BRZE-8400(63)	4C
CONST.	2014	BRZE-8400(63)	4C

EXCAVATION	(COMMON)	565	C.Y.
EMBANKMENT	(COMMON)	767	C.Y.
BORROW		242	C.Y.
SHR.		20%	
SW.		20%	



STATION	50+28.00	
STRUCTURE	52' OF 2@16'X15' RCB	
SKEW	75° RT.	
DRAINAGE AREA	3002 AC.	
DESIGN DISCHARGE(Q100 YR)	1725 CFS	
TOTAL DESIGN DISCHARGE(Q100 YR)	3510 CFS	
APPROACH OVERTOPPING ELEVATION	301.93	
VELOCITY (Q10)	7.5 FT/S	
VELOCITY (Q100)	7.9 FT/S	
INLET ELEVATION	284.25	
OUTLET ELEVATION	283.30	
STANDARD DRAWING NUMBERS	STD-17-84	STD-15-9
CLASS "A" CONCRETE	92.9	C.Y.
STEEL BAR REINFORCING	11836	LB.
FOUNDATION FILL MATERIAL	65	C.Y.

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE & PRIVATE DR. PROFILE

STA. 46+00 TO STA. 57+05
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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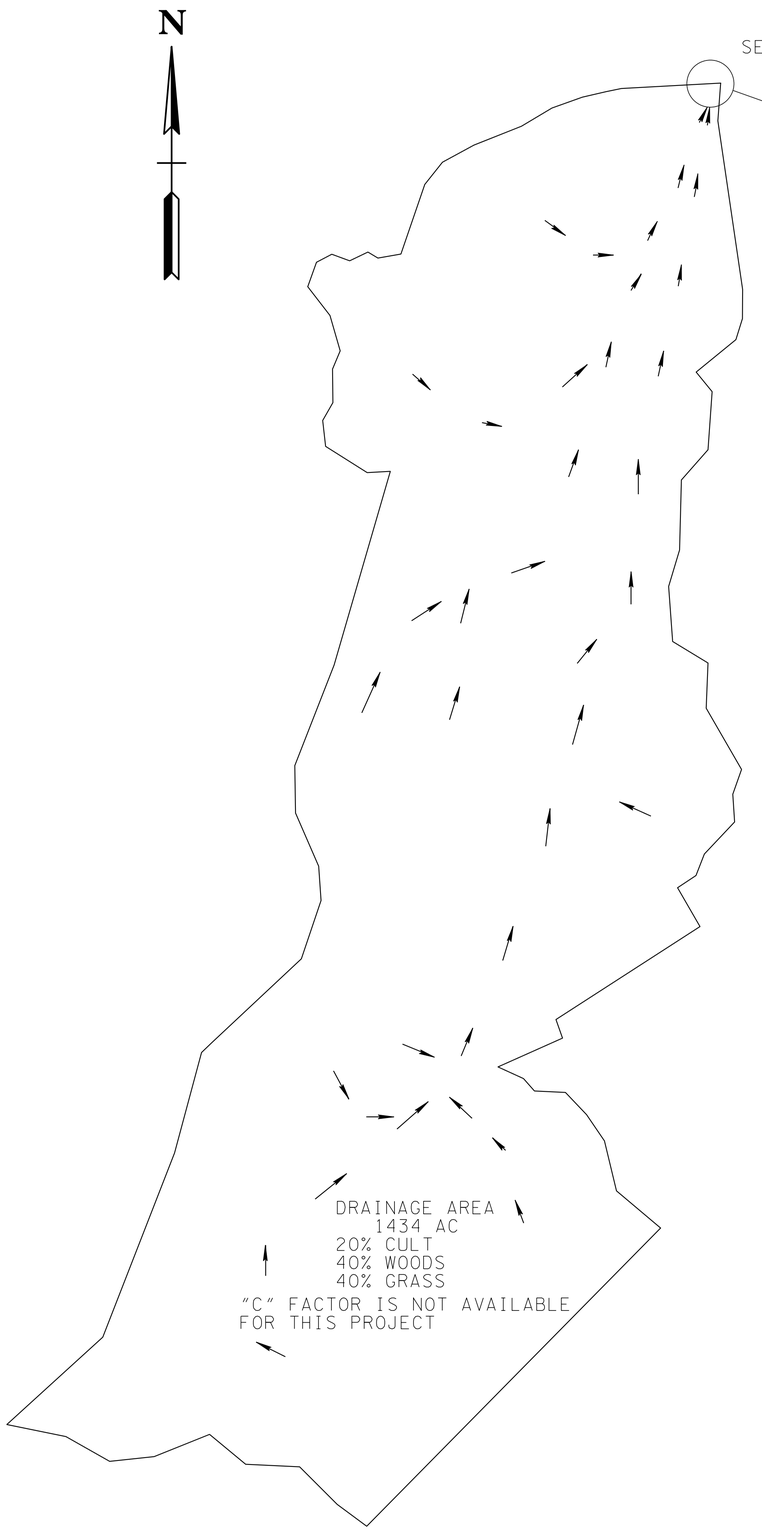
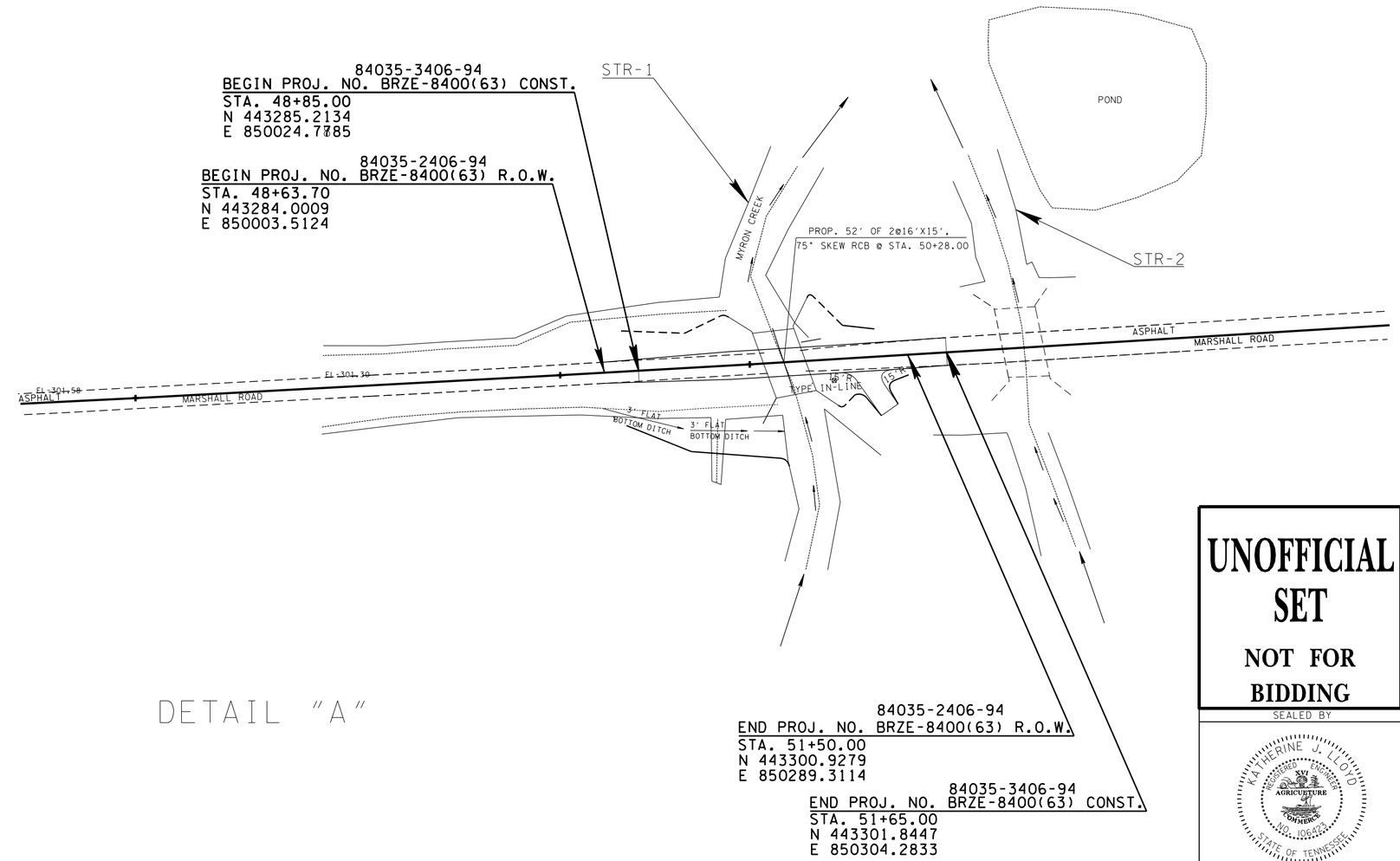
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BRZE-8400(63)	5
CONST.	2014	BRZE-8400(63)	5

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.





DETAIL "A"

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

N.T.S.

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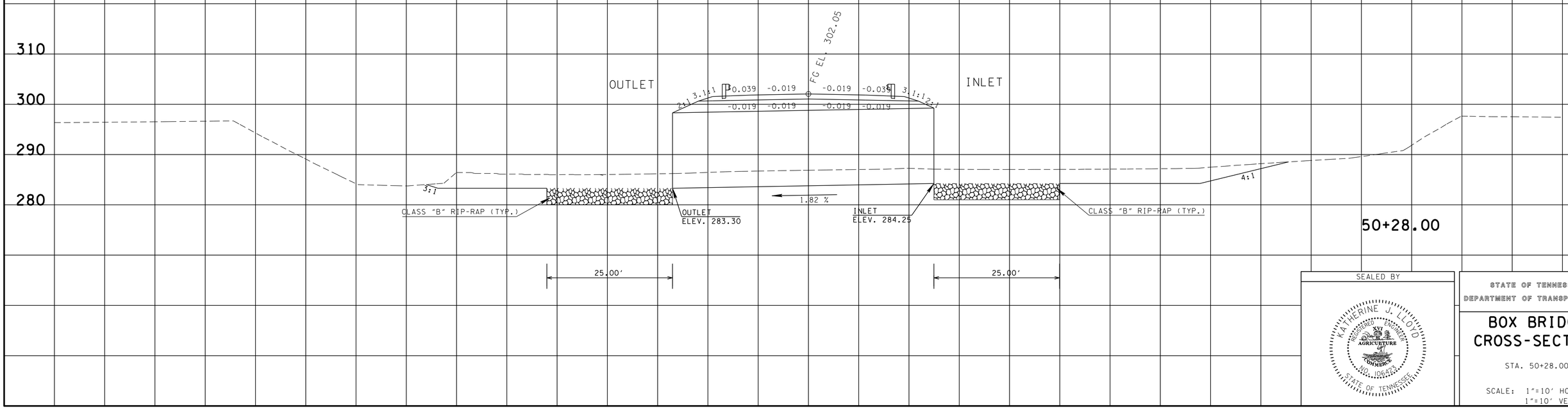
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BRZE-8400(63)	6
CONST.	2014	BRZE-8400(63)	6

UNOFFICIAL SET

NOT FOR BIDDING

STATION	50+28.00
STRUCTURE	52' OF 2@16'X15' RCB
SKEW	75°
DRAINAGE AREA	3002 AC.
DESIGN DISCHARGE (Q100 YR)	1725 CFS
TOTAL DISCHARGE (Q100 YR)	3510 CFS
APPROACH OVERTOPPING ELEV.	301.93
VELOCITY (Q10)	7.5 FT/S
VELOCITY (Q100)	7.9 FT/S
INLET ELEVATION	284.25
OUTLET ELEVATION	283.30
STANDARD DRAWING NUMBERS	STD-17-84 , STD-15-9
CLASS "A" CONCRETE	92.9 C.Y.
STEEL BAR REINFORCING	11836 LB.
FOUNDATION FILL MATERIAL	65 C.Y.



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DEPARTMENT OF TRANSPORTATION

BOX BRIDGE CROSS-SECTION

STA. 50+28.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BRZE-8400(63)	7
CONST.	2014	BRZE-8400(63)	7

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

STREAM/WETLAND

ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION.

EPSC QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(1)	203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	44
	209-05	SEDIMENT REMOVAL	C.Y.	15
(6)(2)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	1688
(6)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	4
(6)	209-08.07	ROCK CHECK DAM	EACH	2
(6)(3)	209-09.01	SANDBAGS	BAG	350
(6)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	1
(6)	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	160
(4)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	11
(3)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	300
(1)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	78
(5)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	266
(3)	740-11.04	TEMPORARY SEDIMENT TUBE 20IN	L.F.	400
	801-03	WATER (SEEDING & SODDING)	M.G.	27
(6)(3)	805-12-03	EROSION CONTROL BLANKET (TYPE III)	S.Y.	860

(1) FOR TEMPORARY CONSTRUCTION EXIT.
(2) INCLUDES 97 LF FOR SEDIMENT FILTER BAGS.
(3) TO BE USED AS DIRECTED BY THE PROJECT ENGINEER.
(4) USED FOR SEDIMENT FILTER BAG.
(5) INCLUDES 172 S.Y. FOR TEMPORARY CONSTRUCTION EXIT, AND 75 S.Y. FOR FILTER BAGS.
(6) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REQUIREMENT.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

	SYMBOL	ITEM	STD. DWG.
	* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C *
	SFB * * SFB SFB * * SFB	SEDIMENT FILTER BAG	EC-STR-2
*	TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
		ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
		ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	* HVF * HVF * HVF *	HIGH VISIBILITY CONSTRUCTION FENCE	S-F-1 *
	** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
*		SAND BAG BERM	EC-STR-33

* LOCATION TO BE DETERMINED BY THE PROJECT ENGINEER.

UNOFFICIAL SET

NOT FOR BIDDING

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106473
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC NOTES AND TABULATION

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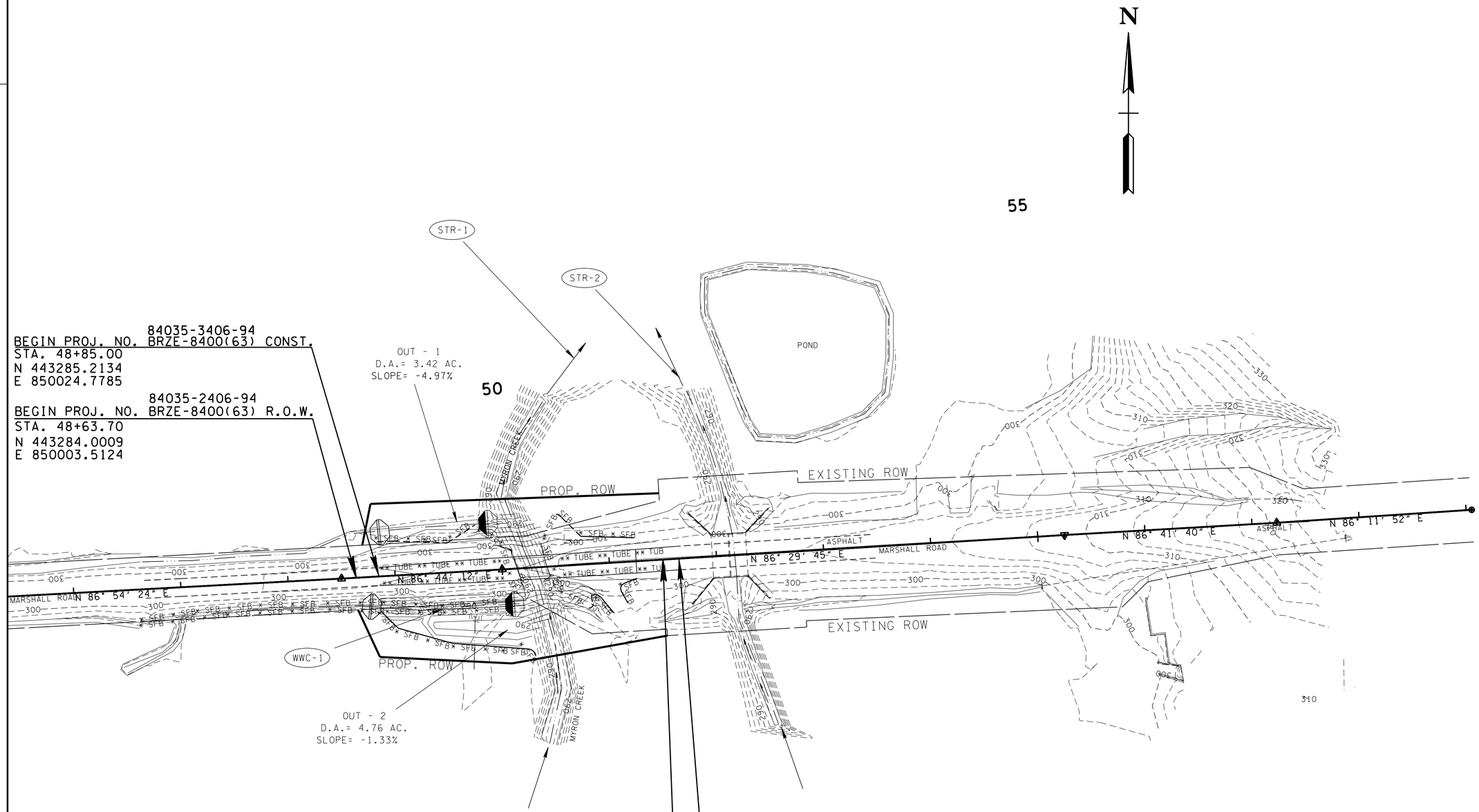
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BRZE-8400(63)	8
CONST.	2014	BRZE-8400(63)	8



84035-3406-94
BEGIN PROJ. NO. BRZE-8400(63) CONST.
STA. 48+85.00
N 443285.2134
E 850024.7785

84035-2406-94
BEGIN PROJ. NO. BRZE-8400(63) R.O.W.
STA. 48+63.70
N 443284.0009
E 850003.5124

84035-2406-94
END PROJ. NO. BRZE-8400(63) R.O.W.
STA. 51+50.00
N 443300.9279
E 850289.3114

84035-3406-94
END PROJ. NO. BRZE-8400(63) CONST.
STA. 51+65.00
N 443301.8447
E 850304.2833

NOTE: SHOWING EXISTING CONTOURS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC
PHASE I

STA. 46+00 TO STA. 59+05

SCALE: 1"= 50'

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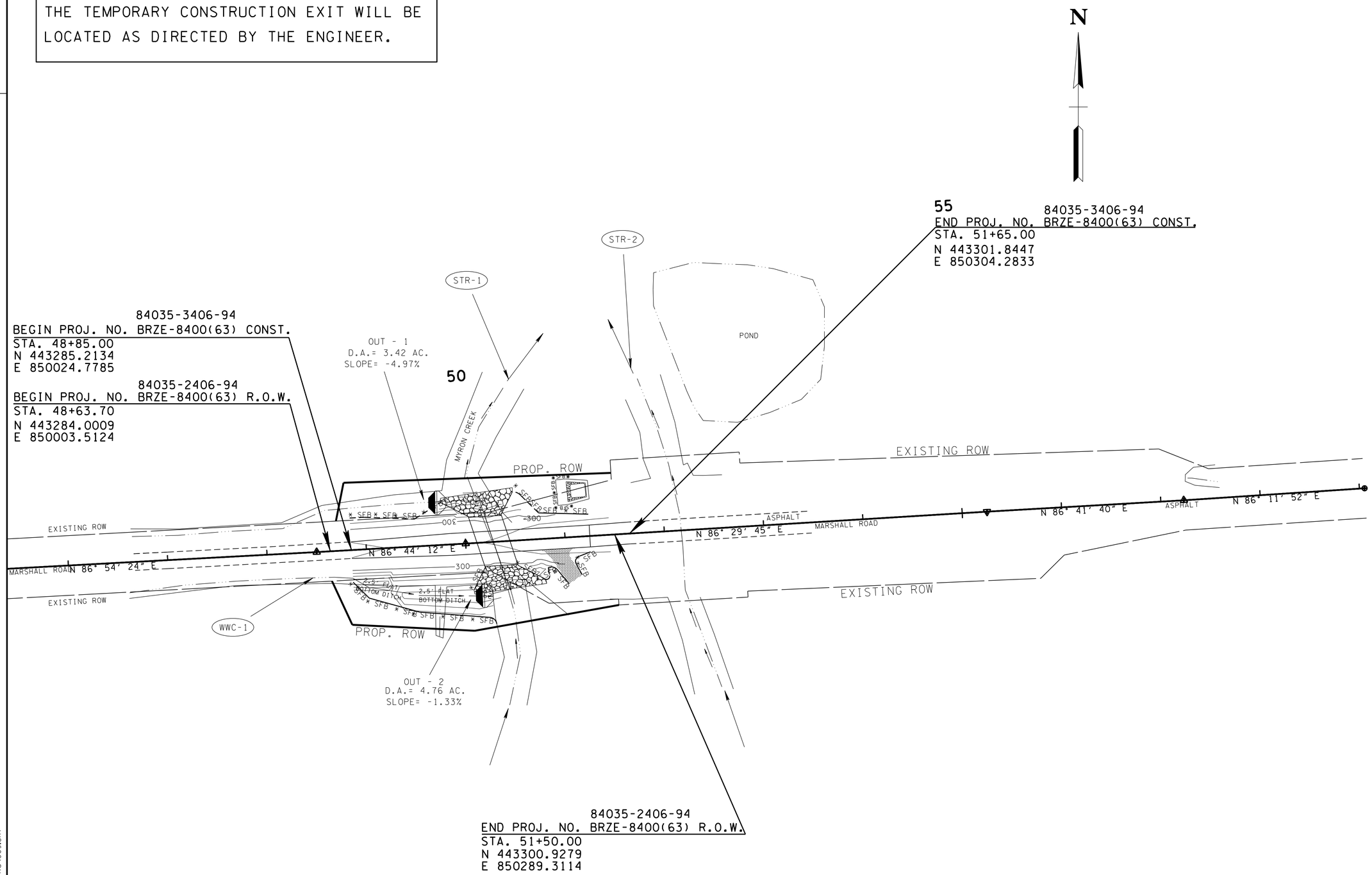
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BRZE-8400(63)	9
CONST.	2014	BRZE-8400(63)	9

NOTE:
THE TEMPORARY CONSTRUCTION EXIT WILL BE LOCATED AS DIRECTED BY THE ENGINEER.



NOTE: PROPOSED CONTOURS SHOWN

SEE STD. DWG. EC-STR-30, EC-STR-31 AND EC-STR-31A FOR STREAM DIVERSION.

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC
PHASE II

STA. 46 +00 TO STA. 57 +05

SCALE: 1"= 50'

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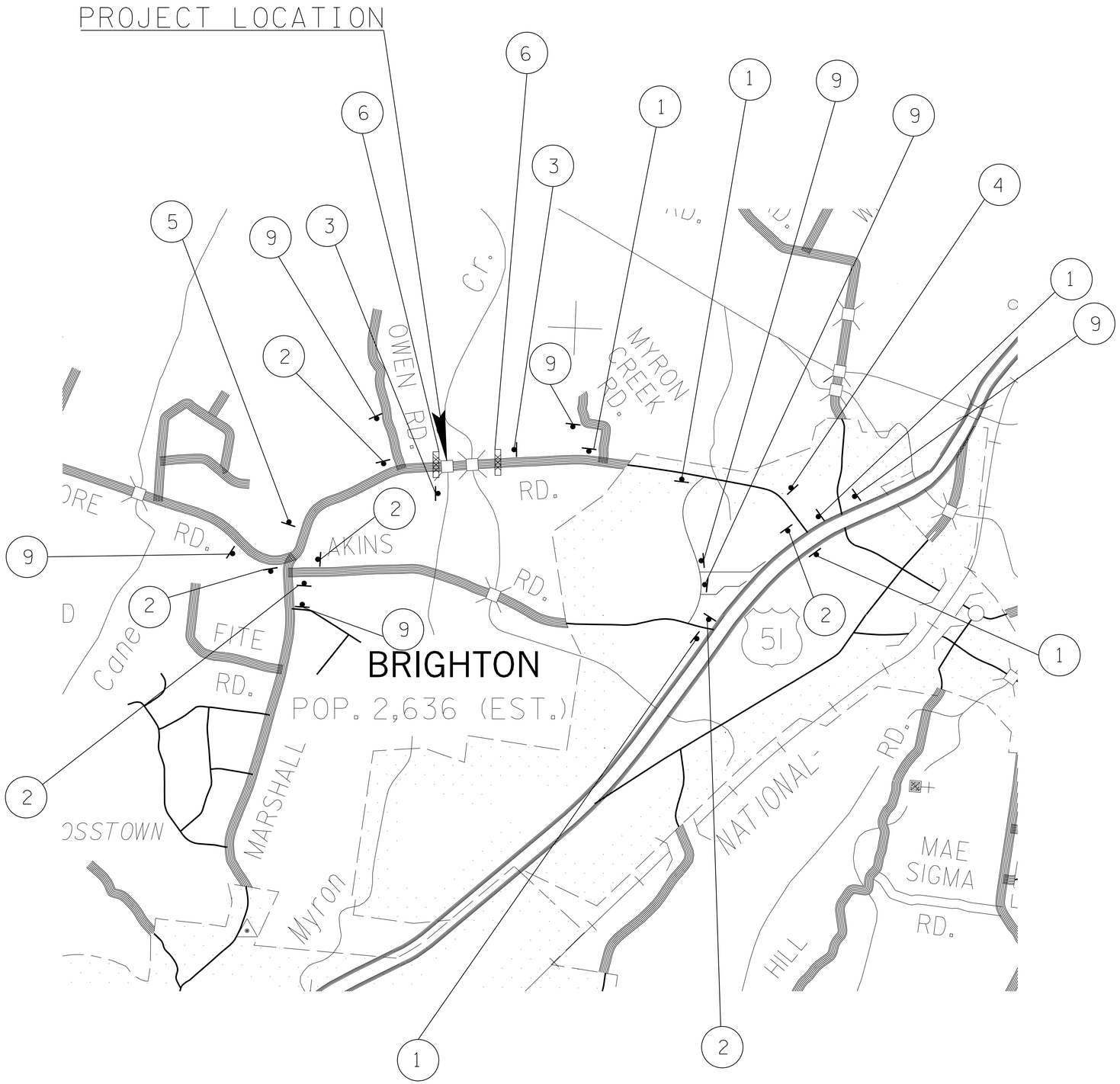
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	BRZE-8400(63)	10



TRAFFIC CONTROL LEGEND

SYMBOL	ITEM	
	SIGN (CONSTRUCTION)	
1	DETOUR ←	M4-9
2	DETOUR →	M4-9
3	ROAD CLOSED AHEAD	W20-3
4	ROAD CLOSED 0.6 MILE AHEAD LOCAL TRAFFIC ONLY	R11-3A
5	ROAD CLOSED 0.75 MILE AHEAD LOCAL TRAFFIC ONLY	R11-3A
6	A A TYPE III BARRICADE w/ TYPE A WARNING LIGHTS	
7	← DETOUR	M4-10
8	DETOUR →	M4-10
9	DETOUR AHEAD	W20-2
	MARSHALL RD CLOSED AT MYRON CK RD	R11-3A

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DEPARTMENT OF TRANSPORTATION

DETOUR MAP

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

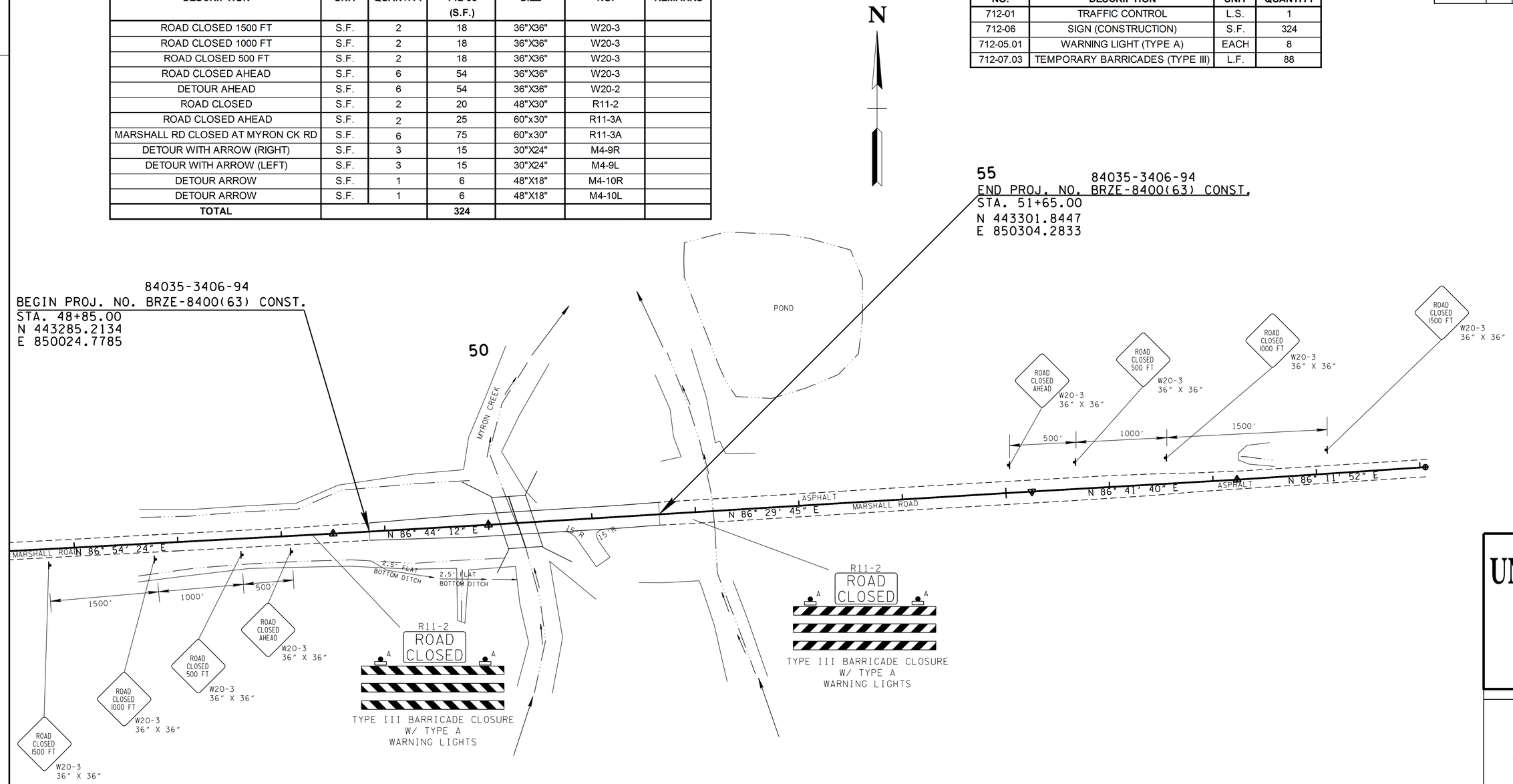
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	BRZE-8400(63)	11

TRAFFIC CONTROL SIGNS

DESCRIPTION	UNIT	QUANTITY	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	REMARKS
ROAD CLOSED 1500 FT	S.F.	2	18	36"X36"	W20-3	
ROAD CLOSED 1000 FT	S.F.	2	18	36"X36"	W20-3	
ROAD CLOSED 500 FT	S.F.	2	18	36"X36"	W20-3	
ROAD CLOSED AHEAD	S.F.	6	54	36"X36"	W20-3	
DETOUR AHEAD	S.F.	6	54	36"X36"	W20-2	
ROAD CLOSED	S.F.	2	20	48"X30"	R11-2	
ROAD CLOSED AHEAD	S.F.	2	25	60"x30"	R11-3A	
MARSHALL RD CLOSED AT MYRON CK RD	S.F.	6	75	60"x30"	R11-3A	
DETOUR WITH ARROW (RIGHT)	S.F.	3	15	30"X24"	M4-9R	
DETOUR WITH ARROW (LEFT)	S.F.	3	15	30"X24"	M4-9L	
DETOUR ARROW	S.F.	1	6	48"X18"	M4-10R	
DETOUR ARROW	S.F.	1	6	48"X18"	M4-10L	
TOTAL			**324**			

TRAFFIC CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
712-01	TRAFFIC CONTROL	L.S.	1
712-06	SIGN (CONSTRUCTION)	S.F.	324
712-05.01	WARNING LIGHT (TYPE A)	EACH	8
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	88



TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	SIGN (CONSTRUCTION)
	TEMPORARY BARRICADE (TYPE III)
A	WARNING LIGHT (TYPE A) (LOW-INTENSITY FLASHING)

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

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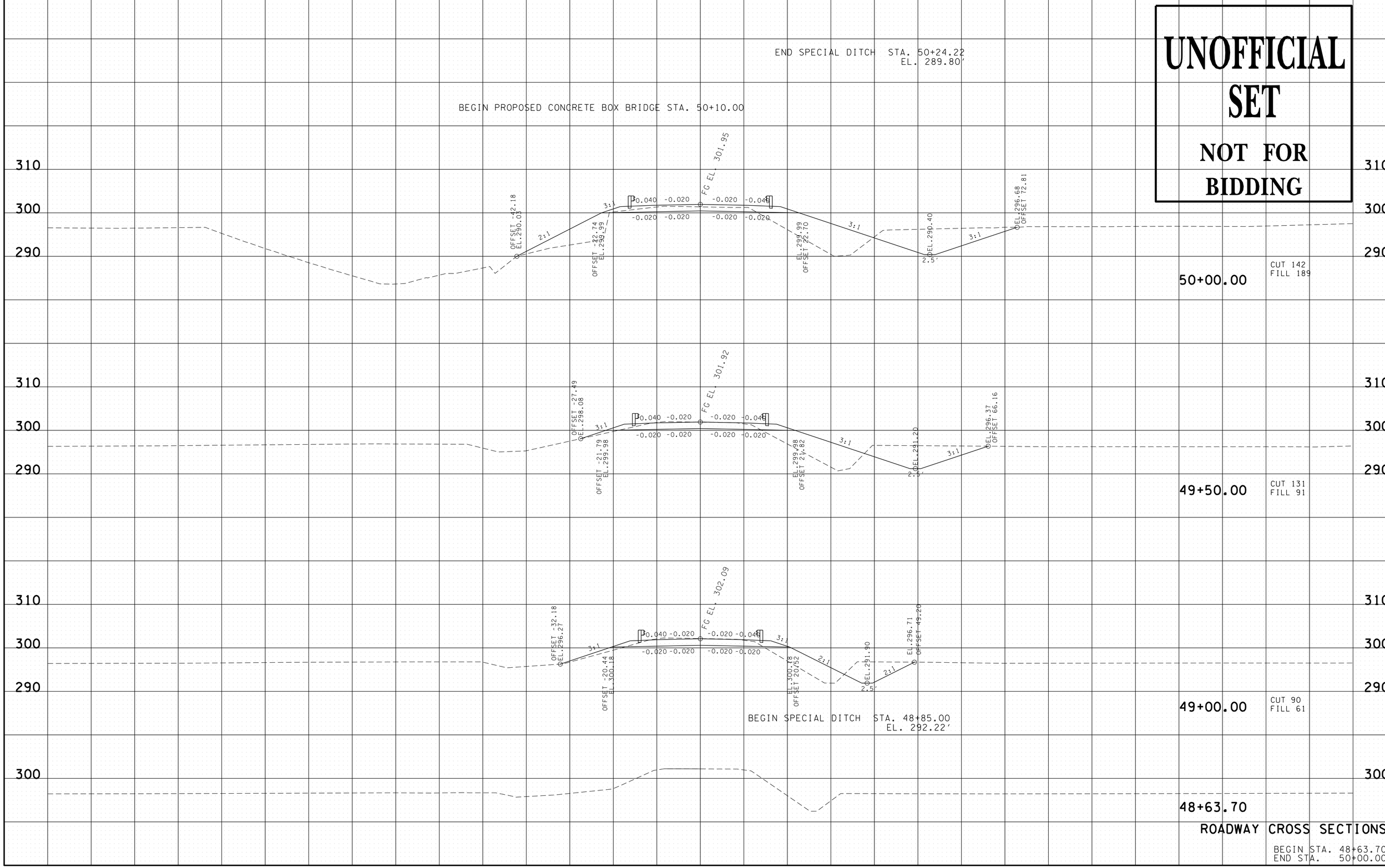
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BRZE-8400(63)	10
CONST.	2014	BRZE-8400(63)	12

UNOFFICIAL SET

NOT FOR BIDDING



ROADWAY CROSS SECTIONS

BEGIN STA. 48+63.70
END STA. 50+00.00

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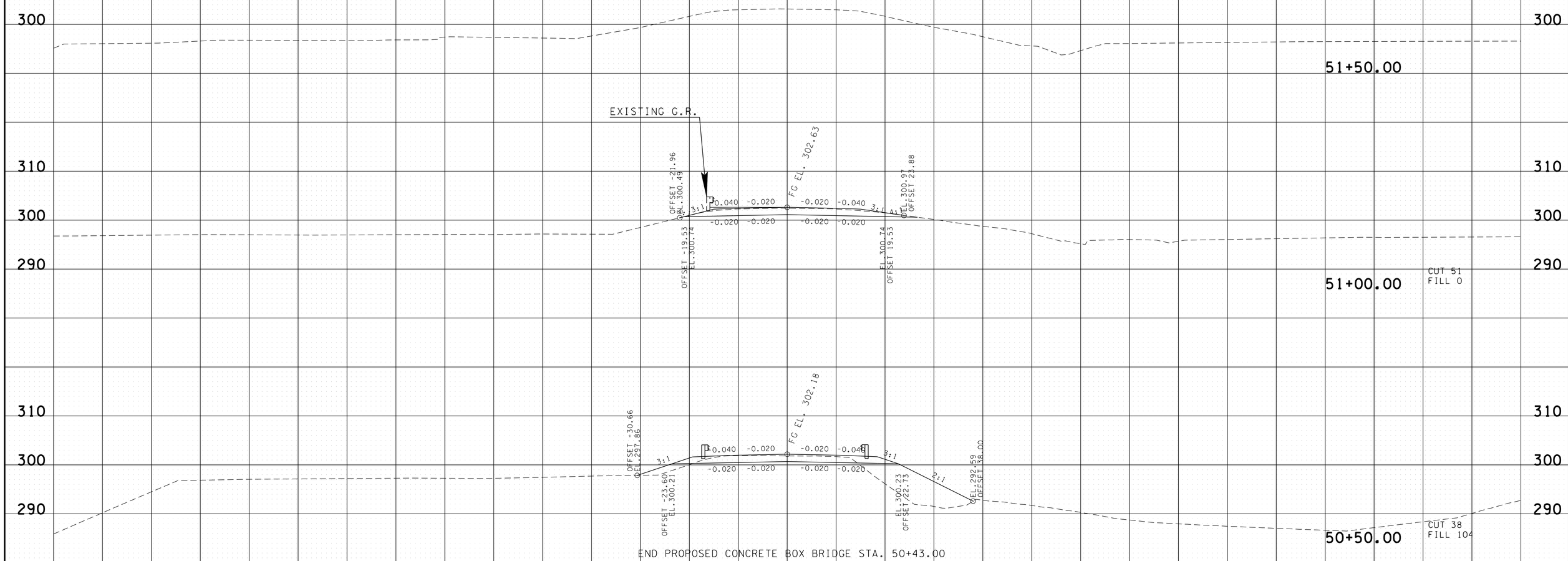
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BRZE-8400(63)	11
CONST.	2014	BRZE-8400(63)	13

UNOFFICIAL SET

NOT FOR BIDDING



ROADWAY CROSS SECTIONS

BEGIN STA. 50+50.00
END STA. 51+50.00

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