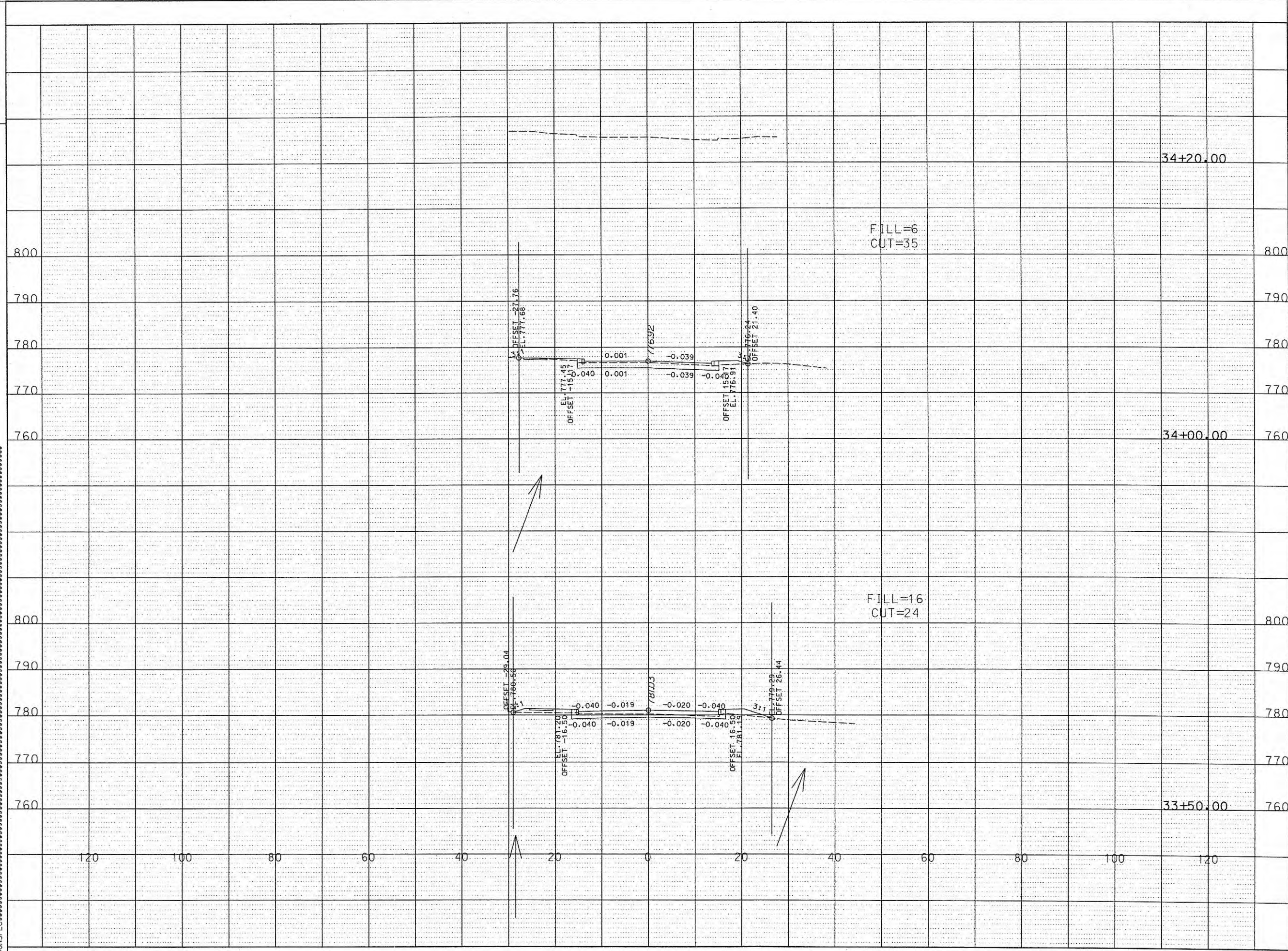


TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	19
CONST.	2007	BRZE-7300(22)	23

\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$DGN\$SPEC\$\$\$\$



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

QUEEN ST.
CROSS SECTIONS

STA. 33+50 TO STA. 34+20
SCALE: 1"=10' HORIZ.
1"=10' VERT.

RIGHT-OF-WAY NOTES

TYPE	YEAR	PROJECT NO.	SH N
R.O.W.	2005	BRZE-7300(22)	
CONST.	2007	BRZE-7300(22)	

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 1, 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 ON 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 TOUCHDOWN POINT.

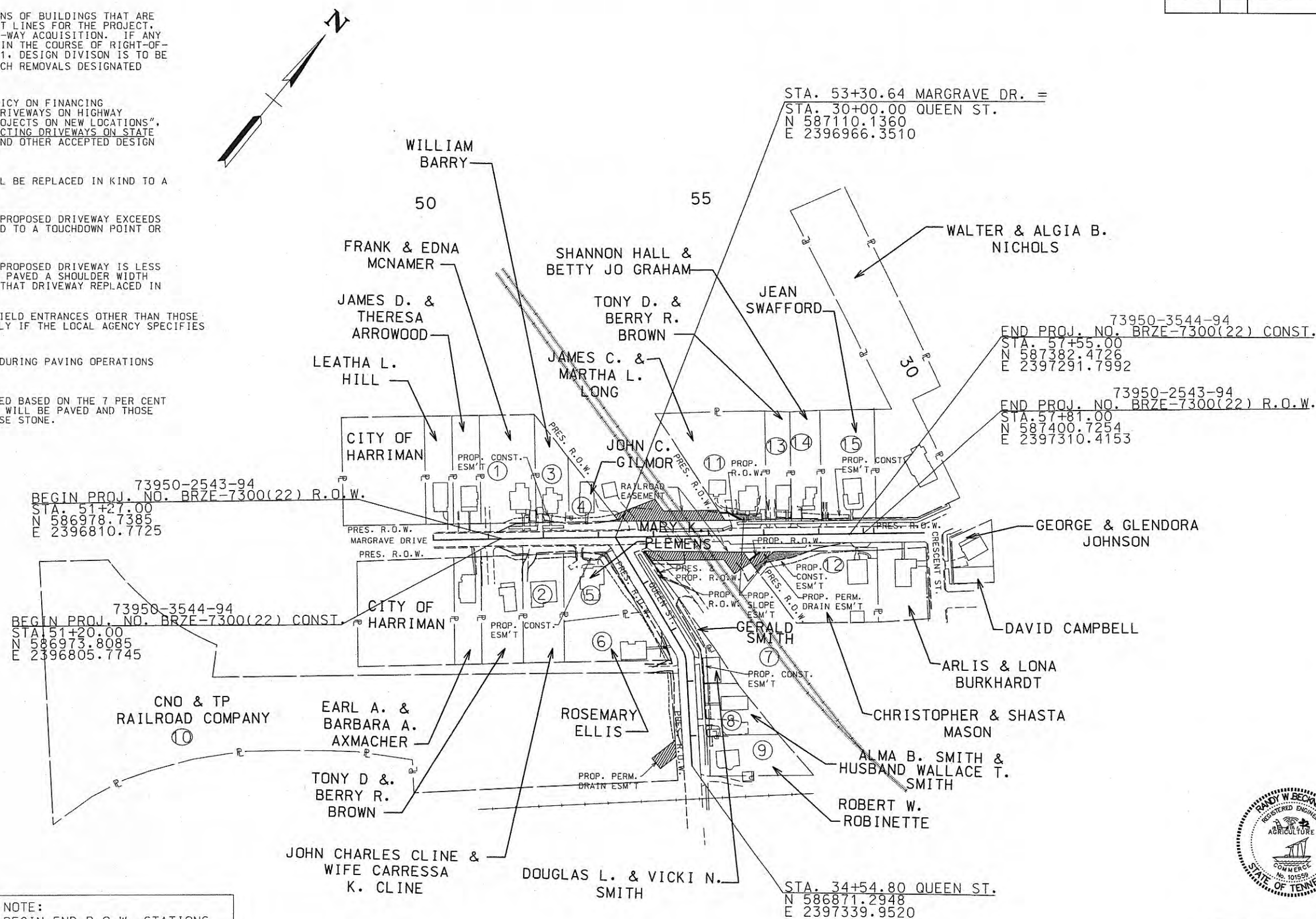
WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PER CENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PER CENT.

WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PER CENT 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.

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.

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

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



NOTE:
BEGIN-END R.O.W. STATIONS
BASED ON CONST. ESM'T LENGTH

UTILITY OWNERS
PHONE: BELLSOUTH
CONTACT: JAMES VANDEE
9733 PARKSIDE DRIVE, KNOXVILLE, TN 37922
(865)539-8519

CABLE: COMCAST
CONTACT: BARRY SIPE
408 SOUTH WHITE STREET, ATHENS, TN 37303
(865) 862-5050

WATER, POWER, SEWER: HARRIMAN UTILITY BOARD
300 NORTH ROANE STREET, HARRIMAN, TN 37748
CONTACT: FRANKIE DAVIS
(865) 882-3242



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPERTY MAP

STA. 50+00 TO STA. 58+9
SCALE: 1"=100'

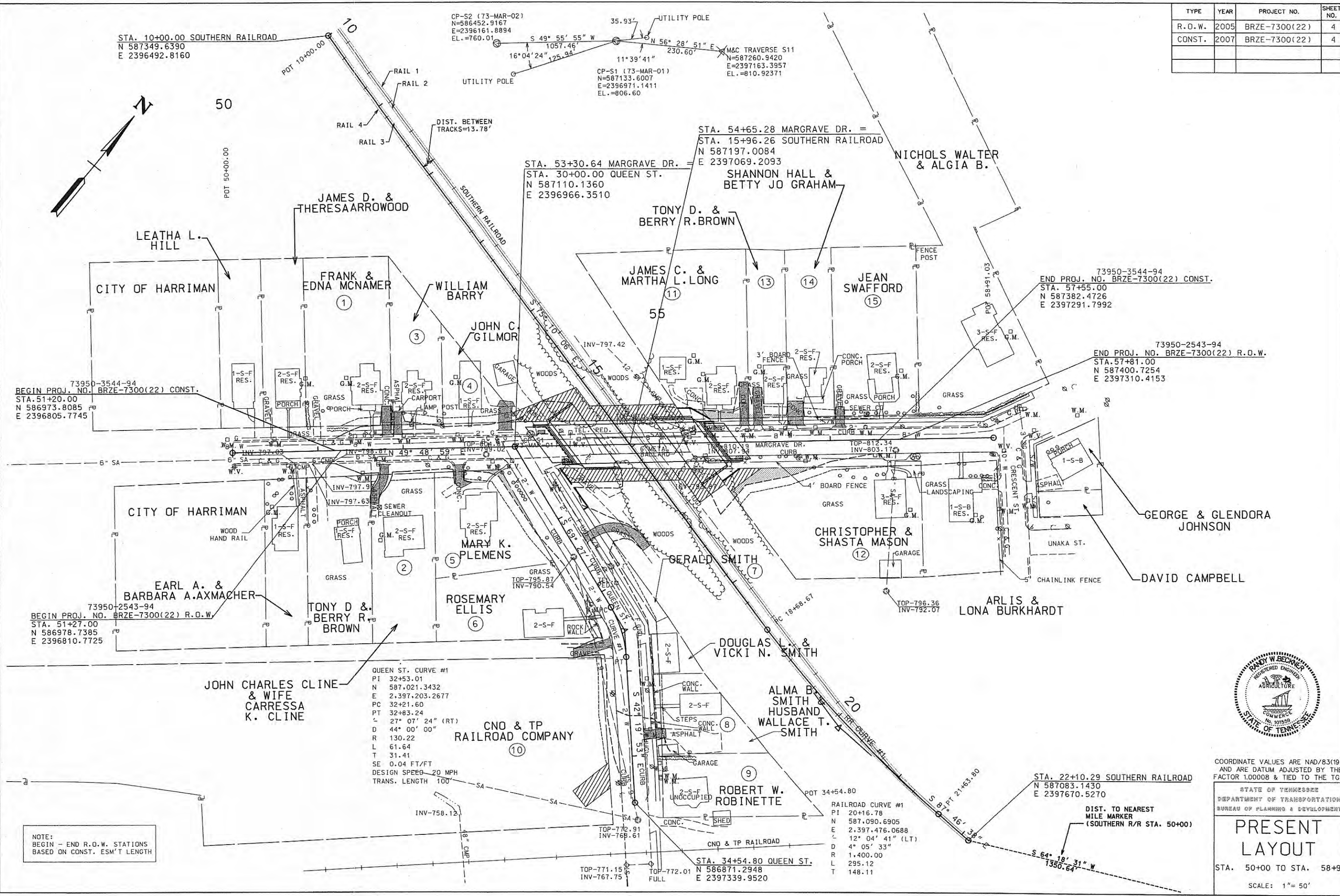
RIGHT-OF-WAY ACQUISITION TABLE

① TO BE USED FOR CONSTRUCTION WORKING ROOM AROUND CUT AND FILL AREAS AND FOR TEMPORARY EROSION CONTROL FEATURES.

② IMPAIRED ACCESS

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	4
CONST.	2007	BRZE-7300(22)	4



COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.00008 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PRESENT LAYOUT

STA. 50+00 TO STA. 58+91

SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHE NO
R.O.W.	2005	BRZE-7300(22)	4
CONST.	2007	BRZE-7300(22)	4

LINE TABLE				
L1	N	49°	57' 05" E	50.0
L2	N	48°	39' 26" E	49.4
L3	N	49°	57' 05" E	50.0
L4	N	48°	38' 14" E	75.4
L5	N	49°	57' 05" E	100.0
L6	N	48°	38' 14" E	74.5
L7	N	49°	57' 05" E	60.0
L8	N	48°	38' 14" E	77.4
L9	S	68°	41' 31" E	102.3
L10	N	39°	51' 21" W	75.0
L11	S	50°	08' 40" W	52.8
L12	N	74°	34' 14" W	160.5
L13	N	71°	24' 30" W	158.8
L14	S	4°	37' 32" W	3.0
L15	S	49°	09' 21" W	45.3
L16	N	50°	09' 12" E	54.8
L17	N	49°	48' 34" E	99.0
L18	S	49°	59' 18" W	75.4
L19	S	25°	26' 05" W	85.0
L20	N	71°	24' 30" W	55.4
L21	N	74°	34' 14" W	56.4

73950-3544-94
END PROJ. NO. BRZE-7300(22) CONST.
STA. 57+55.00
N 587382.4726
E 2397291.7992

73950-2543-94
END PROJ. NO. BRZE-7300(22) R.O.W.
STA. 57+81.00
N 587400.7254
E 2397310.4153^N



GEORGE & GLENDORA
JOHNSON

DAVID CAMPBELL

ARLIS &
LONA BURKHARDT

AS L. &
N. SMITH

ALMA B.
SMITH &
HUSBAND
WALLACE T.
SMITH

ROBERT W.
ROBINETTE

STA. 34+54.80 QUEEN ST.
N 586871.2948
E 2397339.9520

RAILROAD CURVE #1
PI 20+16.78
N 587.090.6905
E 2,397.476.0688
L 12° 04' 41" (LT)
D 4° 05' 33"
R 1,400.00
L 295.12
T 148.11

STA. 22+10.29 SOUTHERN RAILROAD
N 587083.1430
E 2397670.5270

DIST. TO NEAREST
MILE MARKER
— (SOUTHERN R/R STA. 50+00)

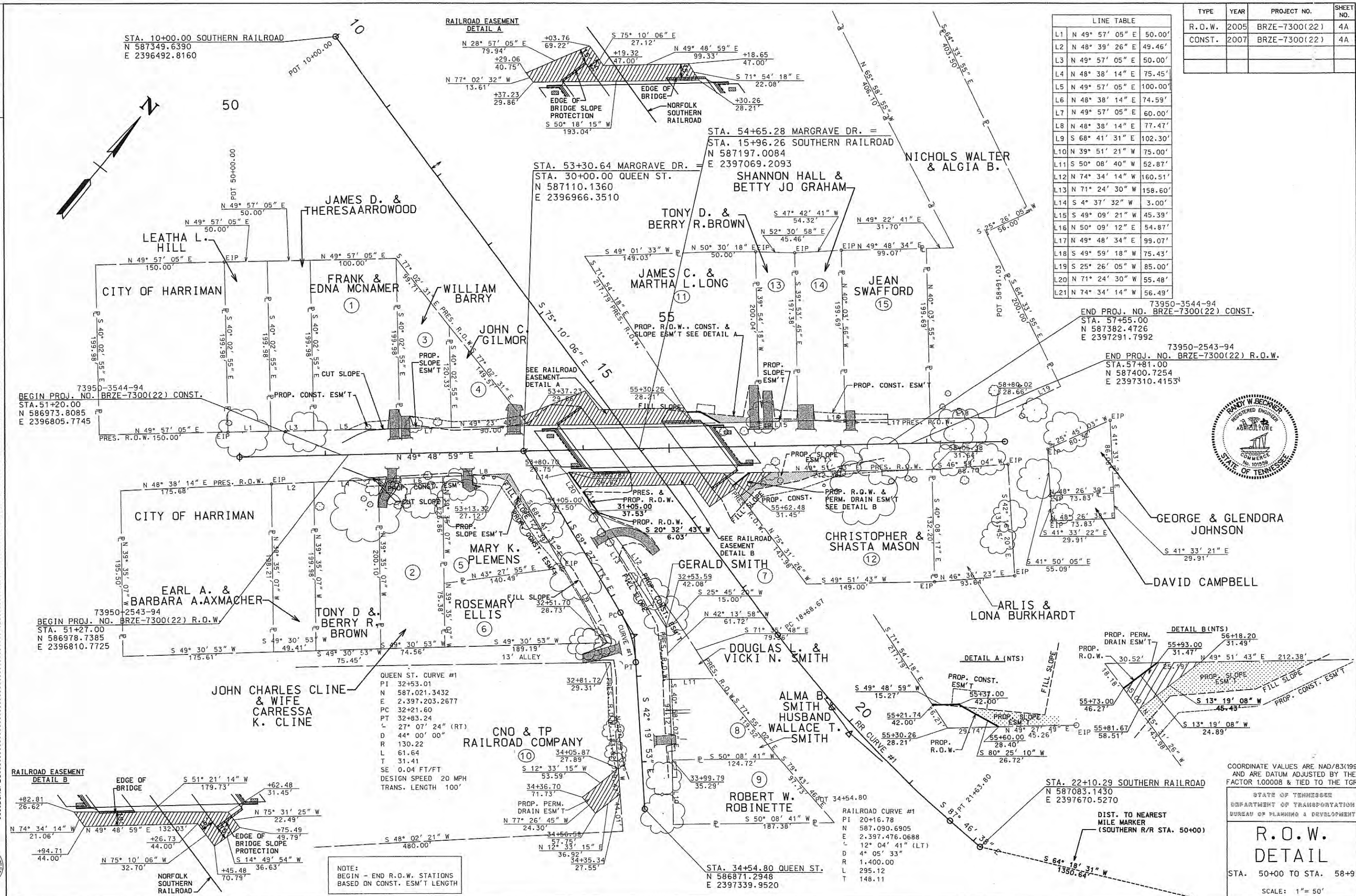
COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.00008 & TIED TO THE TGRN

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

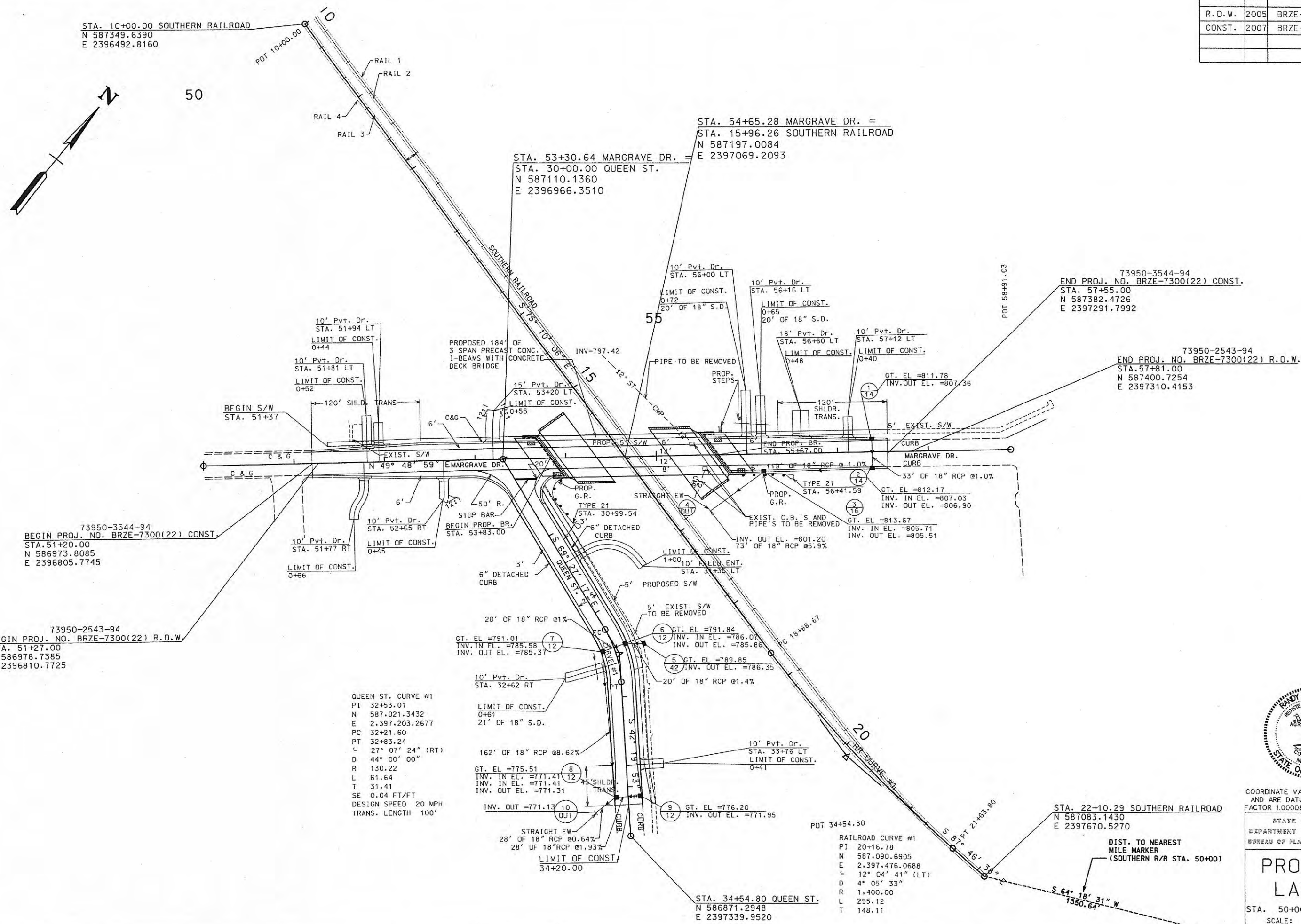
R.O.W.
DETAIL

STA. 50+00 TO STA. 58+9

SCALE: 1" = 50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	4B
CONST.	2007	BRZE-7300(22)	4B

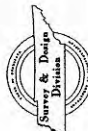


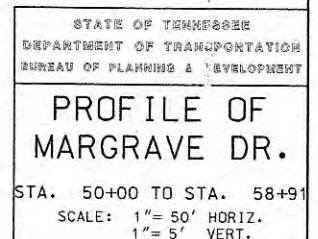
COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.00008 & TIED TO THE TGN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED LAYOUT

STA. 50+00 TO STA. 58+91
SCALE: 1" = 50' HORIZ.





DESIGN DIVISION

SYTIME\$\$\$\$\$

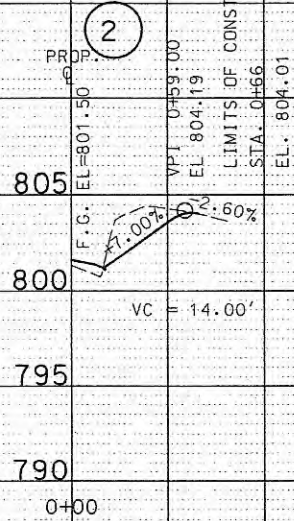
PROFILE OF
QUEEN ST.

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

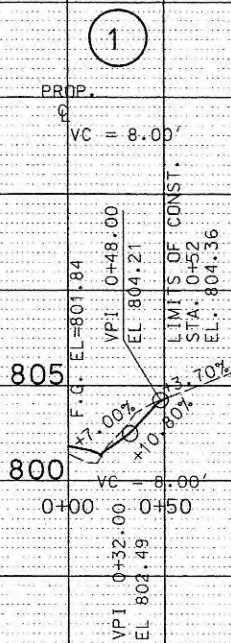
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	6
CONST.	2007	BRZE-7300(22)	6

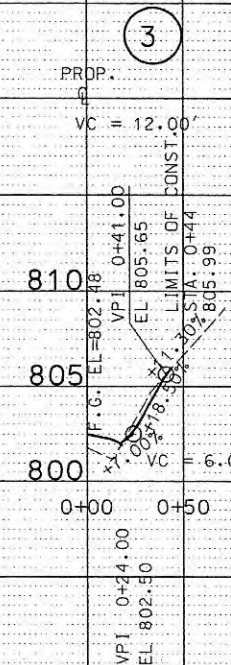
MARGRAVE DR.
10' PVT. DR. STA. 51+77 RT



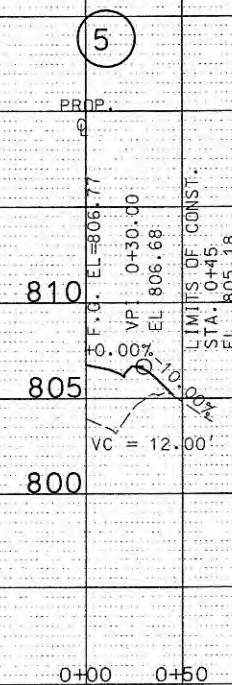
MARGRAVE DR.
10' PVT. DR. STA. 51+81 LT



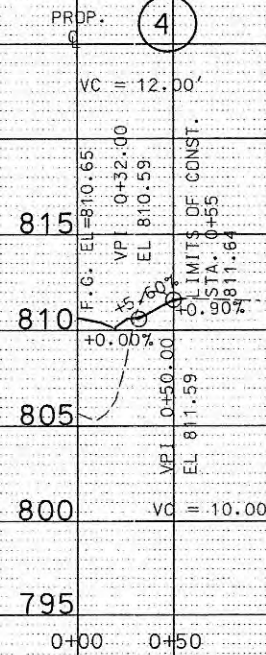
MARGRAVE DR.
10' PVT. DR. STA. 51+94 LT



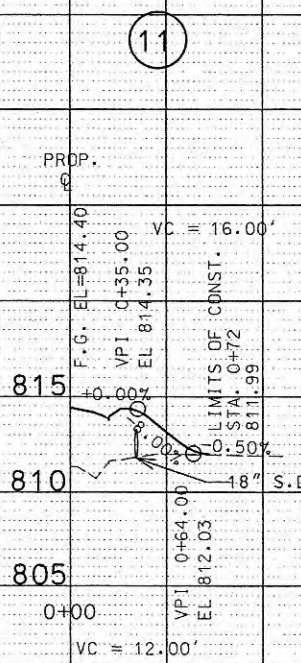
MARGRAVE DR.
10' PVT. DR. STA. 52+65 RT



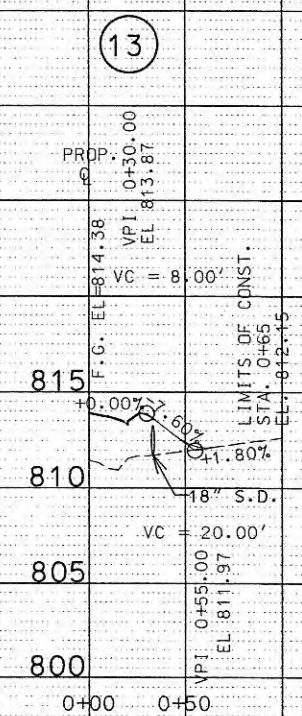
MARGRAVE DR.
15' PVT. DR. STA. 53+20 LT



MARGRAVE DR.
10' PVT. DR. STA. 56+00 LT



MARGRAVE DR.
10' PVT. DR. STA. 56+16 LT



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

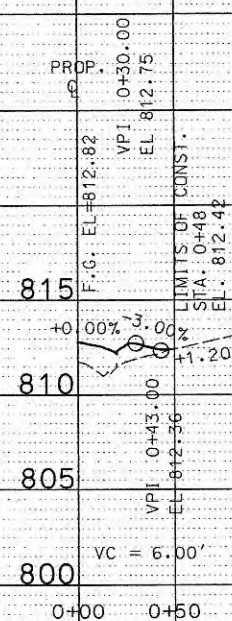
DRIVEWAY PROFILES

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

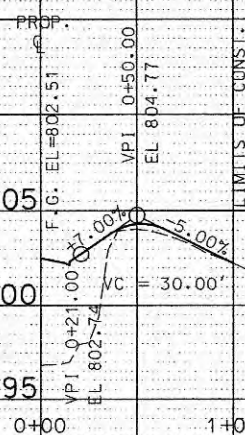
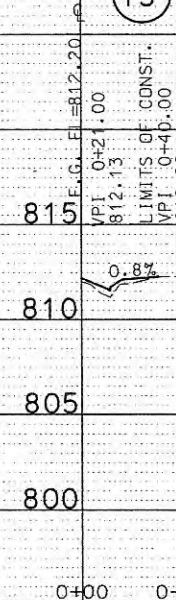


SYTIME
SPECS

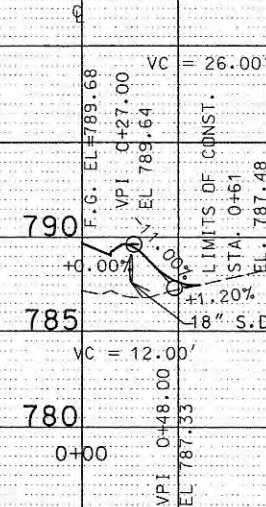
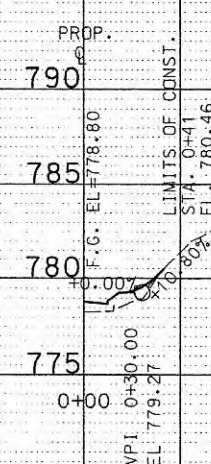
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	
CONST.	2007	BRZE-7300(22)	


$$VC = 10.00'$$


PROP. (15)



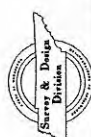
PROP.


$$VC = 22.0$$


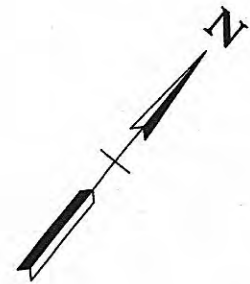
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

DRIVEWAY PROFILES

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2007	BRZE-7300(22)	8



50

POT 50+00.00

DIST. BETWEEN TRACKS=13.78'

SOUTHERN RAILROAD

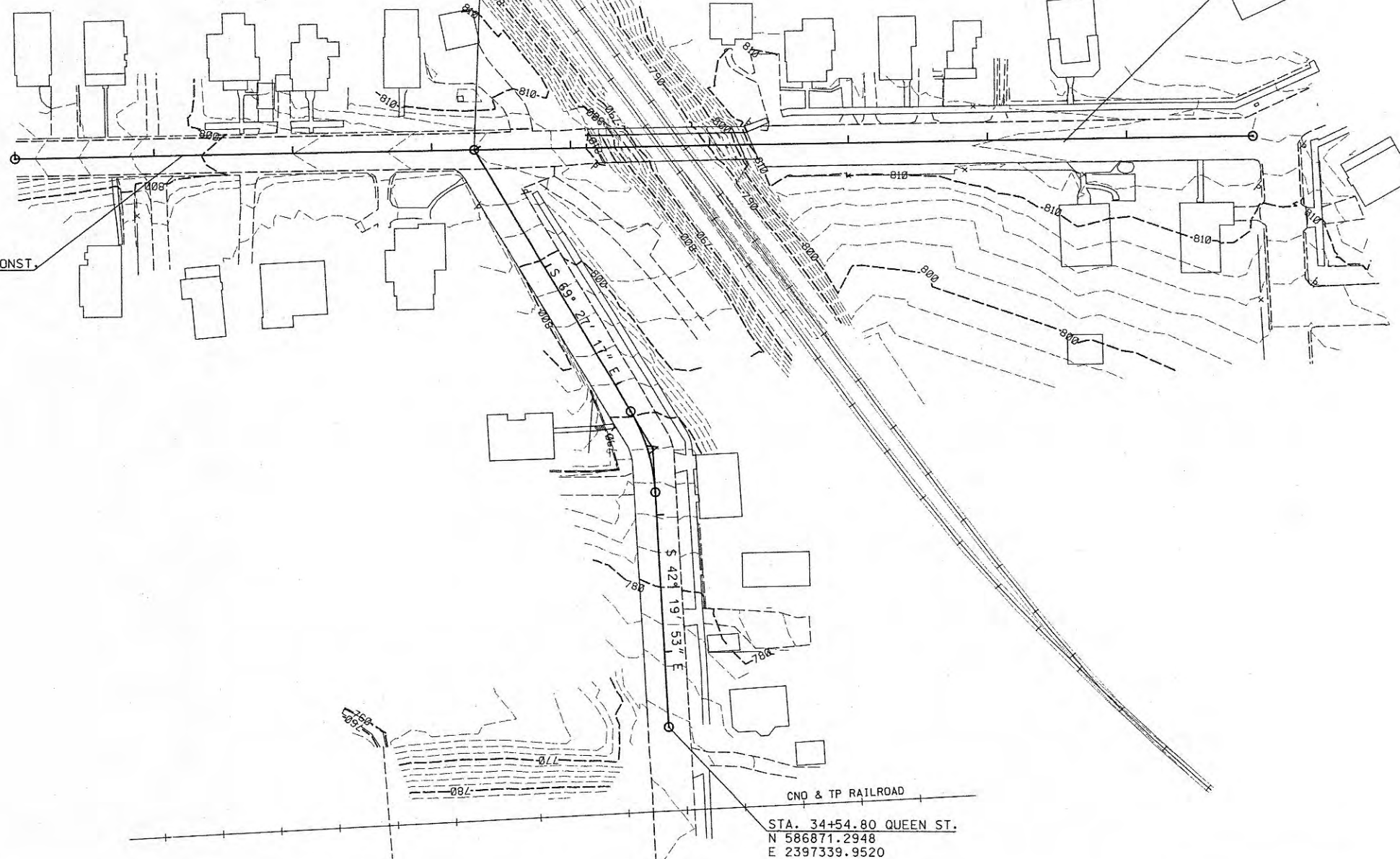
STA. 53+30.64 MARGRAVE DR. =
STA. 30+00.00 QUEEN ST.
N 587110.1360
E 2396966.3510

55

POT 58+91.03

73950-3544-94
END PROJ. NO. BRZE-7300(22) CONST.
STA. 57+55.00
N 587382.4726
E 2397291.7992

73950-3544-94
BEGIN PROJ. NO. BRZE-7300(22) CONST.
STA. 51+20.00
N 586973.8085
E 2396805.7745



CNO & TP RAILROAD

STA. 34+54.80 QUEEN ST.
N 586871.2948
E 2397339.9520



COORDINATE VALUES ARE NAD/83(1995)
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FACTOR 1.00008 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

**EXISTING
CONTOURS**

STA. 50+00 TO STA. 58+91

SCALE: 1" = 50'



\$\$\$\$SYTIME\$\$\$\$\$\$\$\$
\$\$\$\$DONGPEC\$\$\$\$\$\$\$\$

Index of Sheets (CONST.)
SEE SHEET NO 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

ROANE COUNTY

MARGRAVE DRIVE, LOCAL ROUTE 3689
BRIDGE AND APPROACHES OVER SOUTHERN R/R @ L.M. 0.45

GRADING, DRAINAGE, BRIDGE,
PAVING, AND GUARDRAIL

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

TENN.	YEAR	SHEET NO.
	2007	1
FED. AID PROJ. NO.	BRZE-7300(22)	
STATE PROJ. NO.	73950-3544-94	



ROANE COUNTY
PROJECT NO. BRZE-7300 (22)



73950-3544-94
CONST. PROJECT BRZE-7300(22) LOCATION
BEGIN STA. 51+20.00
END STA. 57+55.00

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

TDOT TRANSPORTATION MANAGER 1 CLIFFORD STEWART

DESIGNED BY MATTERN & CRAIG

DESIGNER RANDY DODSON

CHECKED BY RANDY BECKNER, P.E.

P.E. NO. 73950-1542-94

PIN NO. 100409.00

SCALE: 1" = 600'

ROADWAY LENGTH = 0.085 MILES
BRIDGE LENGTH = 0.035 MILES
BOX BRIDGE LENGTH = 0.000 MILES
PROJECT LENGTH = 0.120 MILES

NOTE
MARGRAVE DRIVE TO REMAIN CLOSED DURING CONSTRUCTION
AND THE CITY OF HARRIMAN AGREES TO SIGN AND MAINTAIN THE
APPROPRIATE DETOUR ROUTE.

FOR
CONST.
FIELD
REVIEW
ONLY

"NO EQUATIONS"
"NO EXCLUSIONS"



APPROVED: Paul D. Degees
CHIEF ENGINEER

DATE: _____
APPROVED: Sarah F. Neely
COMMISSIONER

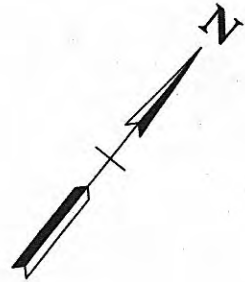
TRAFFIC DATA	
A.D.T. (2007)	
A.D.T. (2027)	
D.H.V. (2027)	
D	60-40
T (A.D.T.)	3%
T (D.H.V.)	2%
V	30 mph

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
DIVISION ADMINISTRATOR DATE



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2007	BRZE-7300(22)	9



50

POT 50+00.00

RAIL 1
RAIL 2
RAIL 4
RAIL 3

STA. 53+30.64 MARGRAVE DR. =
STA. 30+00.00 QUEEN ST.
N 587110.1360
E 2396966.3510

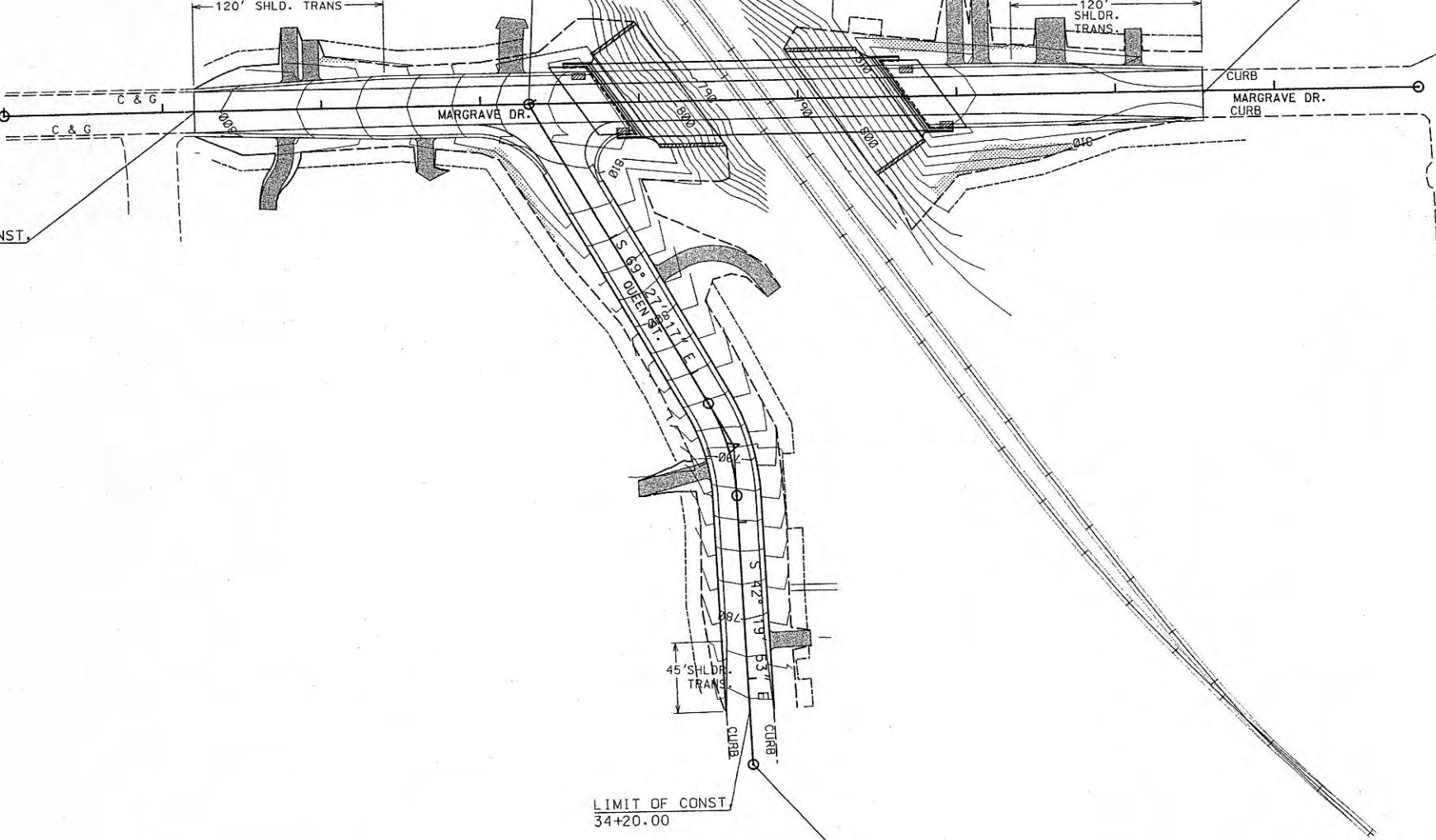
SOUTHERN RAILROAD

55

POT 58+91.03

73950-3544-94
END PROJ. NO. BRZE-7300(22) CONST.
STA. 57+55.00
N 587382.4726
E 2397291.7992

73950-3544-94
BEGIN PROJ. NO. BRZE-7300(22) CONST.
STA. 51+20.00
N 586973.8085
E 2396805.7745



LIMIT OF CONST
34+20.00

STA. 34+54.80 QUEEN ST.
N 586871.2948
E 2397339.9520



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PROPOSED
CONTOURS

STA. 50+00 TO STA. 58+91

SCALE: 1" = 50'



\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$DGN\$PEC\$\$\$\$

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2007	BRZE-7300(22)	10

EROSION PREVENTION AND SEDIMENT CONTROL NOTES:

1. NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EROSION PREVENTION AND SEDIMENT CONTROL DEVICES ON THE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLAN, CONTAINED IN THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP), TO PROVIDE ACCEPTABLE EROSION PREVENTION AND SEDIMENT CONTROLS DURING ALL STAGES OF CONSTRUCTION.
2. THE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.
3. THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES, INCLUDING WITHOUT LIMITATION AS FOLLOWS:
 - A. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EROSION PREVENTION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
 - B. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.
 - C. NO CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EROSION PREVENTION AND SEDIMENT CONTROL PLAN ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.
 - D. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES FOR UTILITY RELOCATION:

1. RAIN WATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A TEMPORARY DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND MAINTAINED.
2. SILT FENCE SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING NO FLOW CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY.
3. UTILITY CROSSINGS FOR PERENNIAL STREAMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS, AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO UTILITIES IN THIS PROJECT IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC). THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLANS (SWPPP).
4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR INSTALLER TO PROTECT FROM EROSION EXPOSED EARTH RESULTING FROM THEIR OPERATIONS, AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.
5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN SEVEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOIL OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL SUCH TIME AS THE TRENCH IS BACKFILLED.
6. IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC), TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS IN THIS PROJECT; THEREFORE, THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT WORK.
7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORM WATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.
8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT ROW, TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.
9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS (AS APPROVED BY THE TDOT PROJECT ENGINEER).
10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES TO REPLACE IN-PLACE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT PROJECT ENGINEER BEFORE COMMENCING WORK.



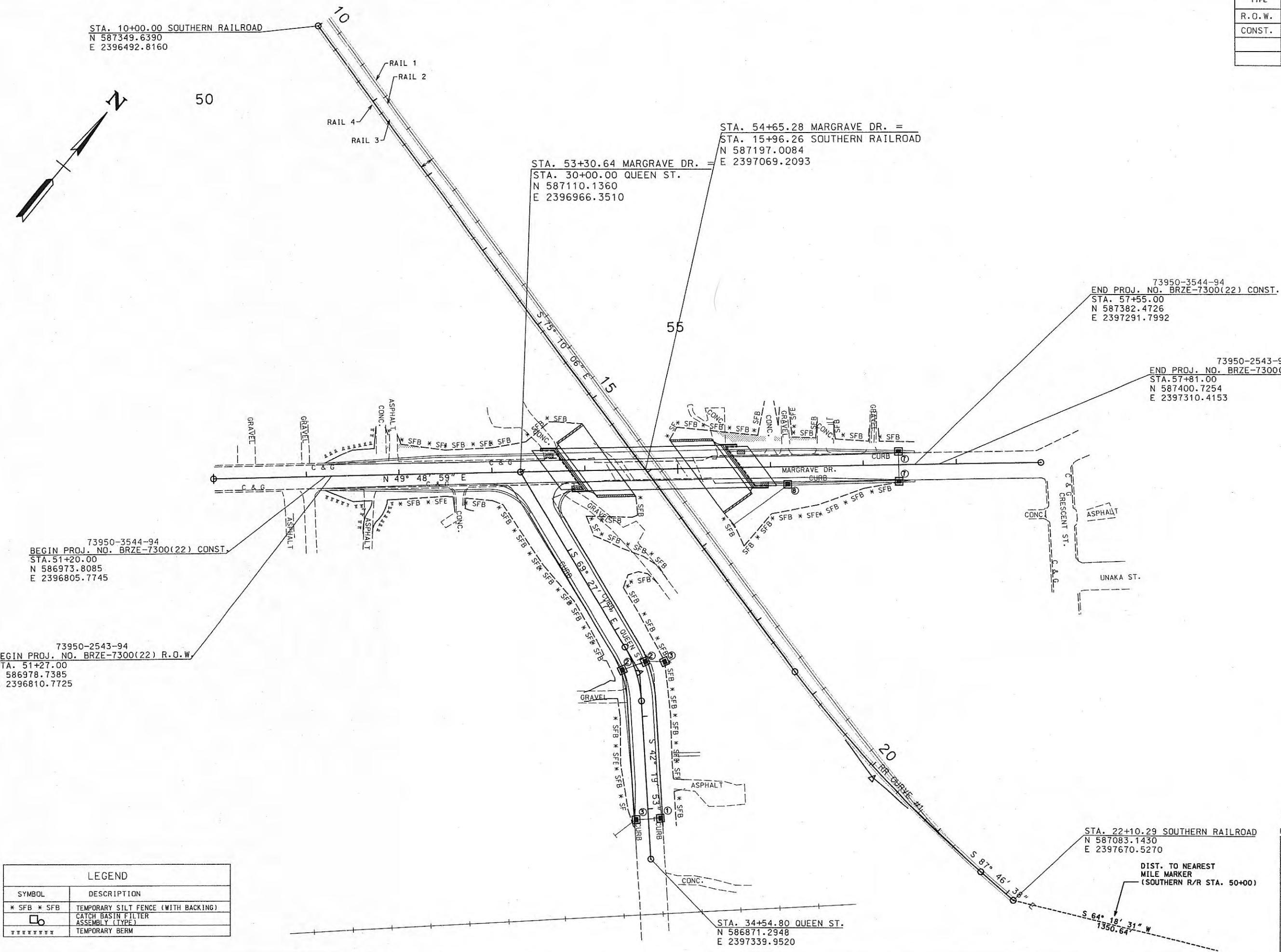
COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.00008 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION
CONTROL
NOTES



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	8
CONST.	2007	BRZE-7300(22)	11



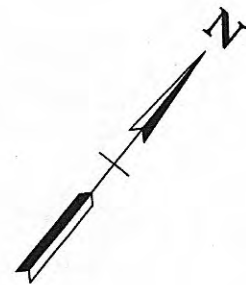
LEGEND	
SYMBOL	DESCRIPTION
* SFB * SFB	TEMPORARY SILT FENCE (WITH BACKING)
	CATCH BASIN FILTER ASSEMBLY (TYPE)
-----	TEMPORARY BERM

COORDINATE VALUES ARE NAD/83(1995)
 AND ARE DATUM ADJUSTED BY THE
 FACTOR 1.00008 & TIED TO THE TGN.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF PLANNING & DEVELOPMENT

EROSION CONTROL
 STA. 50+00 TO STA. 58+99
 SCALE: 1"= 50' HORIZ.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2007	BRZE-7300(22)	12



50

POT 50+00.00

RAIL 1
RAIL 2
RAIL 4
RAIL 3

STA. 53+30.64 MARGRAVE DR. =
STA. 30+00.00 QUEEN ST.
N 587110.1360
E 2396966.3510

55

POT 58+91.03

73950-3544-94
END PROJ. NO. BRZE-7300(22) CONST.
STA. 57+55.00
N 587382.4726
E 2397291.7992

73950-3544-94
BEGIN PROJ. NO. BRZE-7300(22) CONST.
STA. 51+20.00
N 586973.8085
E 2396805.7745

ROAD
CLOSED
R11-2
48" X 30"

TYPE III BARRICADE
WITH ROAD CLOSED
SIGN (R11-2 48" X 30")

TYPE III BARRICADE
WITH ROAD CLOSED
SIGN (R11-2 48" X 30")

ROAD
CLOSED
R11-2
48" X 30"

TYPE III BARRICADE
WITH ROAD CLOSED
SIGN (R11-2 48" X 30")

QUEEN ST. CURVE #1
PI 32+53.01
N 587.021.3432
E 2.397.203.2677
PC 32+21.60
PT 32+83.24
L 27° 07' 24" (RT)
D 44° 00' 00"
R 130.22
L 61.64
T 31.41
SE 0.04 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 100'

ROAD
CLOSED
R11-2
48" X 30"

STA. 34+54.80 QUEEN ST.
N 586871.2948
E 2397339.9520

POT 34+54.80

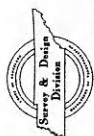


COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.00008 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TRAFFIC CONTROL PLAN

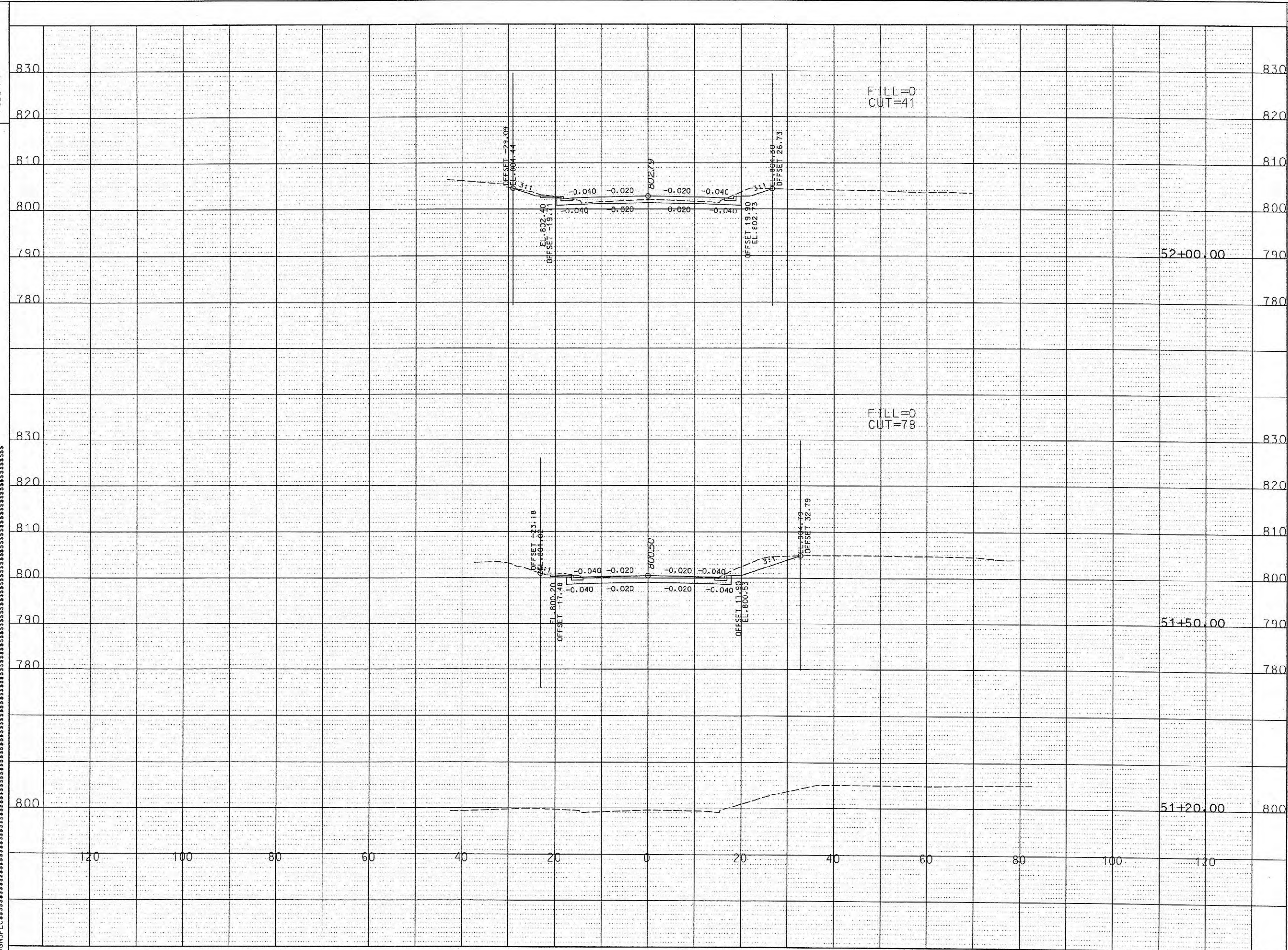
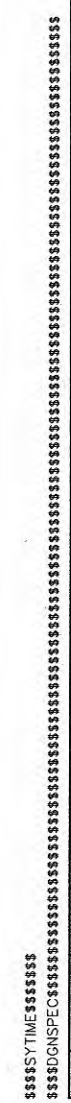
STA. 50+00 TO STA. 58+91
SCALE: 1"= 50' HORIZ.



\$\$\$\$SYTIME\$\$\$\$\$\$\$\$
\$\$\$\$DGN\$PEC\$\$\$\$\$\$\$\$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	9
CONST.	2007	BRZE-7300(22)	13



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

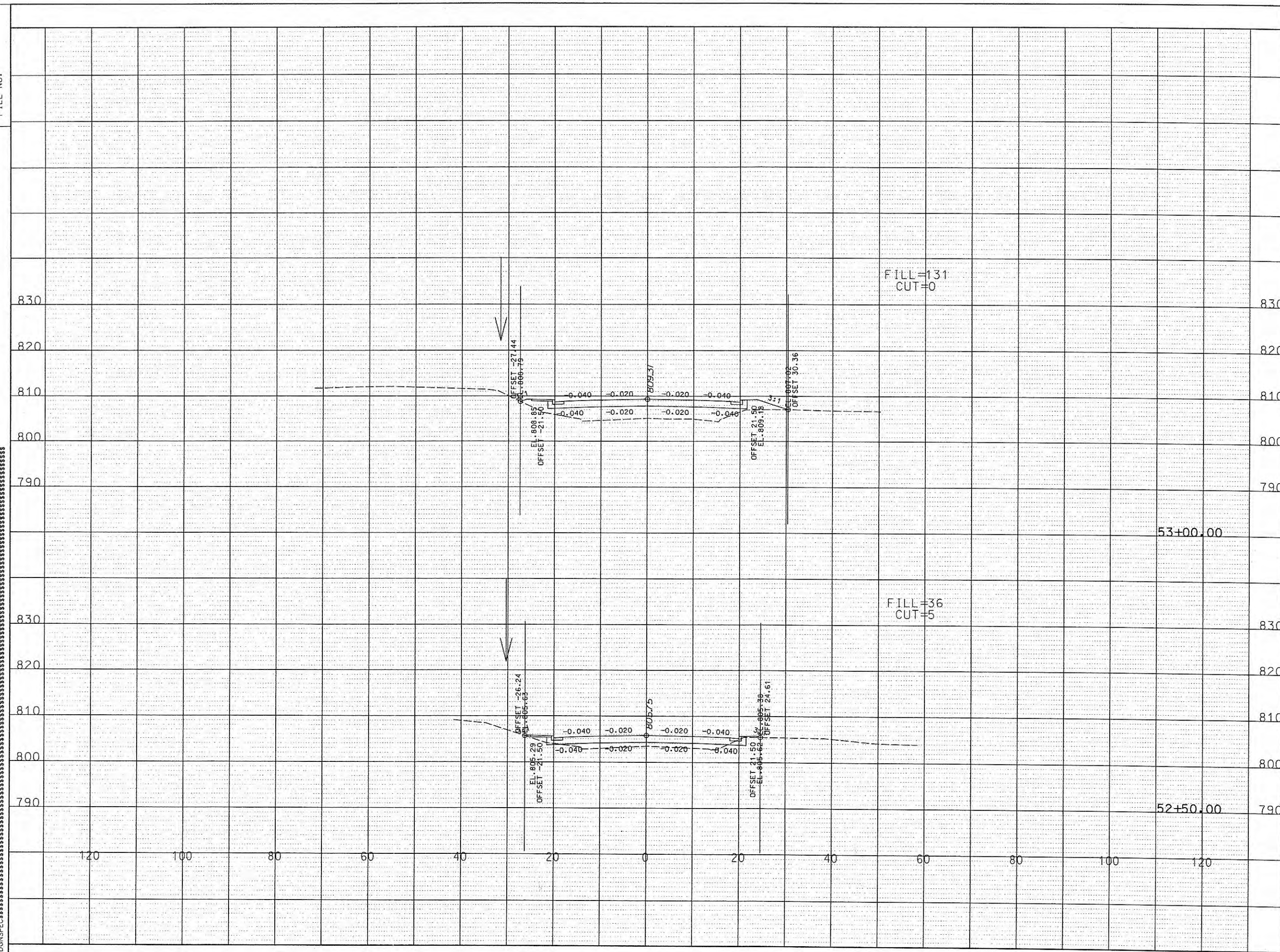
MARGRAVE DR.
CROSS SECTIONS

STA. 51+20 TO STA. 52+00

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	10
CONST.	2007	BRZE-7300(22)	14

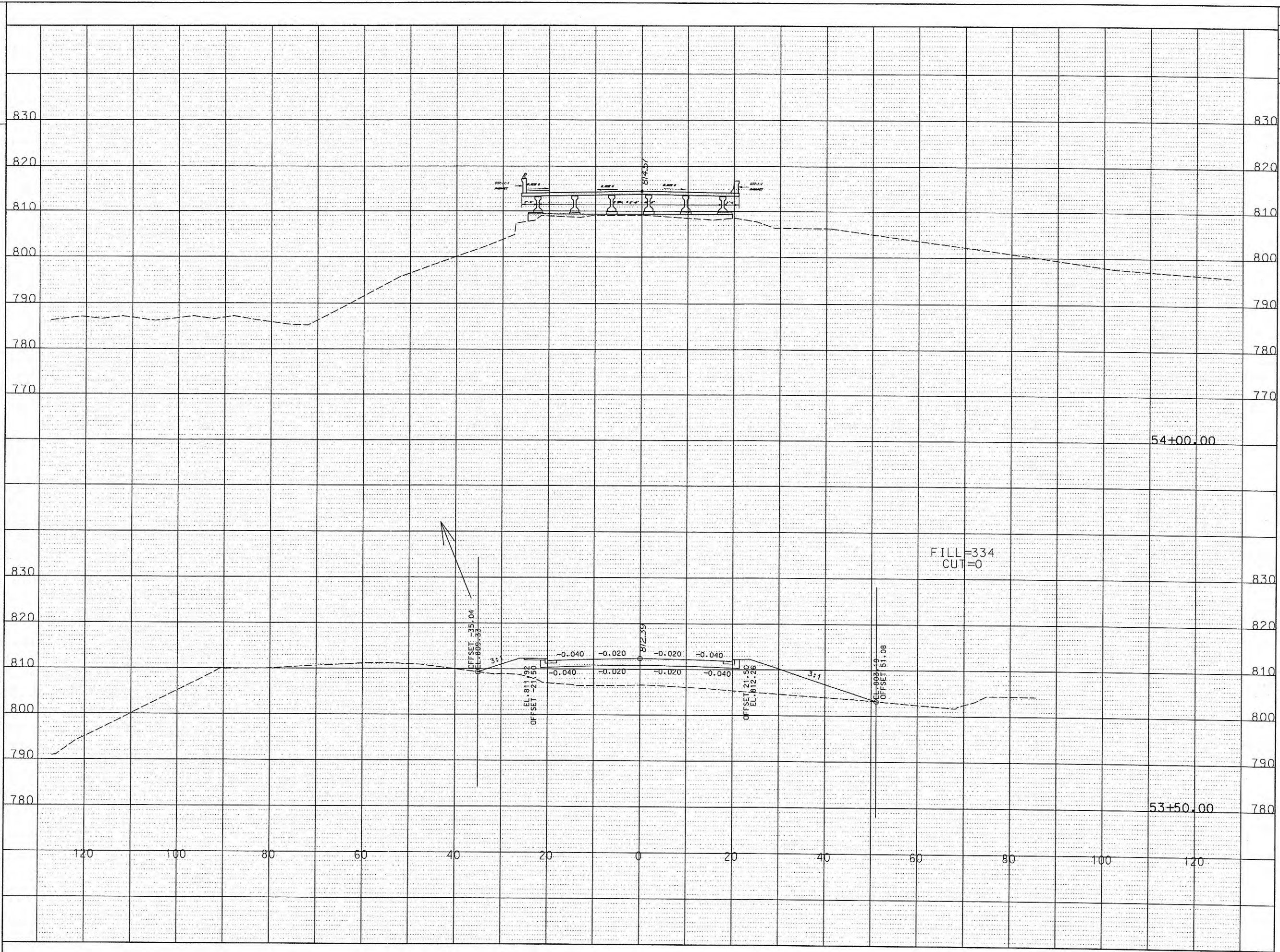
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\$\$\$\$DGN\$PEC\$\$\$\$\$\$\$\$



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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	11
CONST.	2007	BRZE-7300(22)	15

\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$DGN\$PEC\$\$\$\$

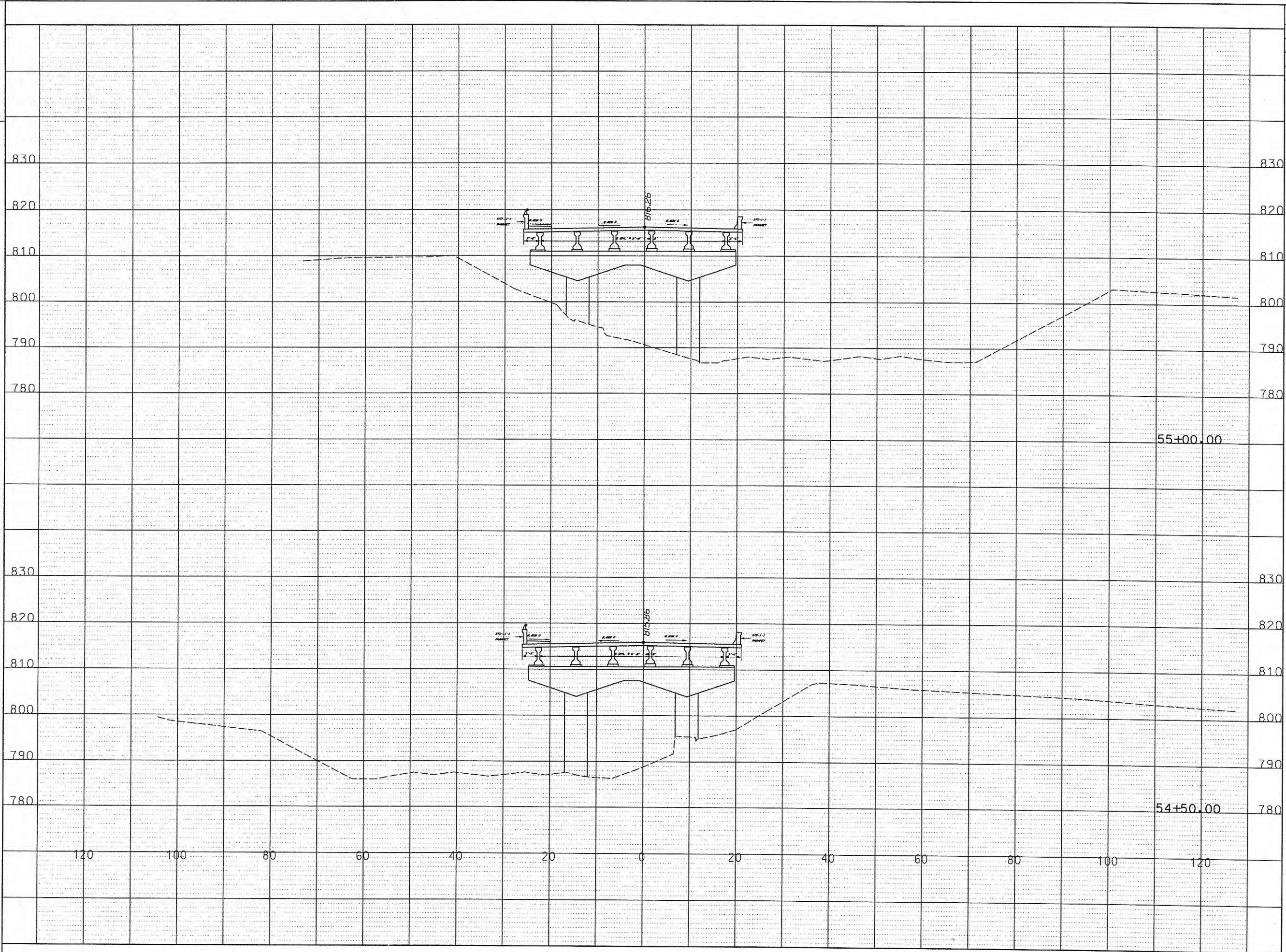


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MARGRAVE DR.
CROSS SECTIONS
STA. 53+50 TO STA. 54+00
SCALE: 1"=10' HORIZ.
1"=10' VERT.

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

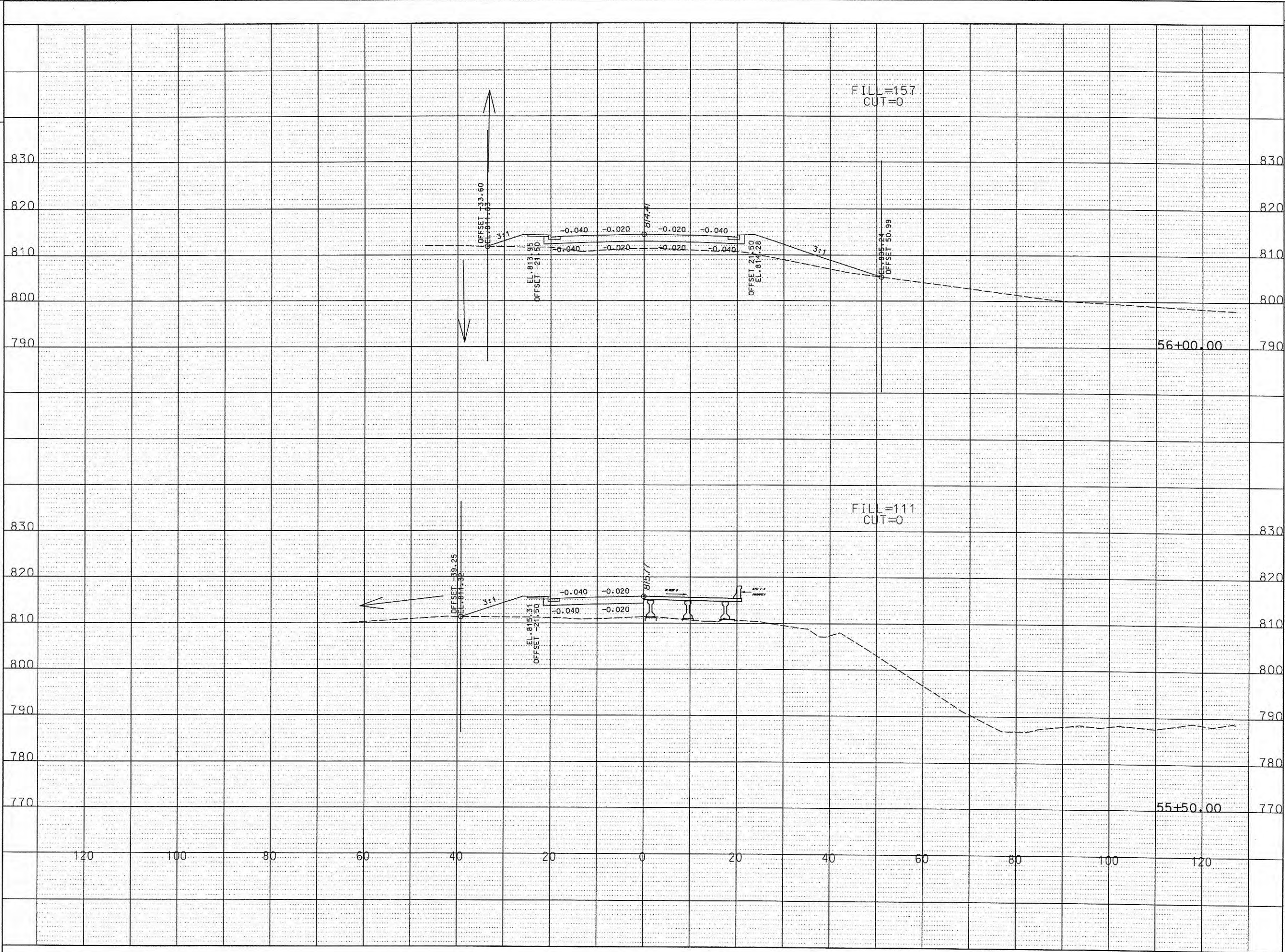
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	12
CONST.	2007	BRZE-7300(22)	16



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MARGRAVE DR.
CROSS SECTIONS
STA. 54+50 TO STA. 55 +00
SCALE: 1"=10' HORIZ.
1"=10' VERT.

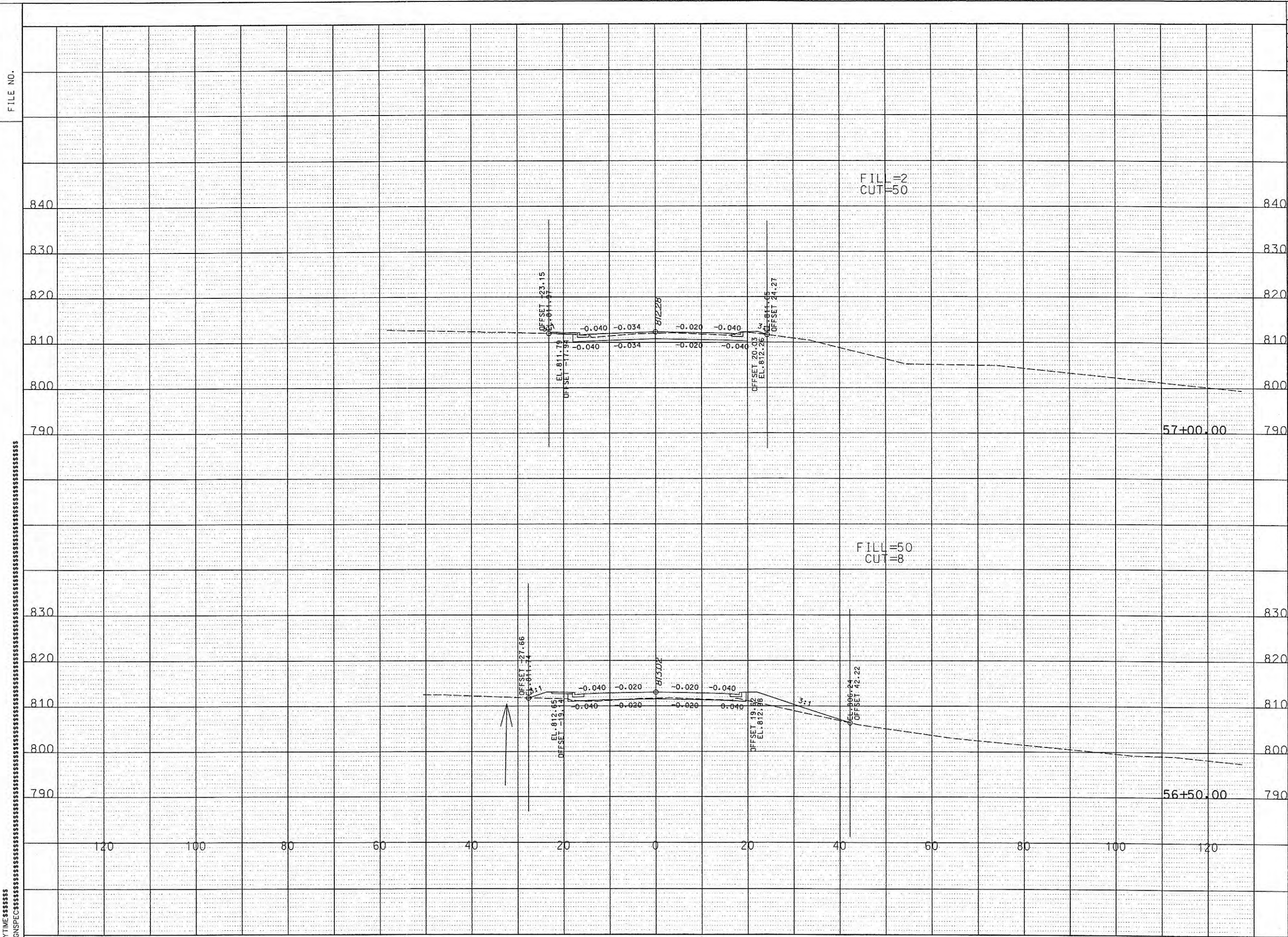
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	13
CONST.	2007	BRZE-7300(22)	17

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
MARGRAVE DR.
CROSS SECTIONS
STA. 55+50 TO STA. 56+00
SCALE: 1"=10' HORIZ.
1"=10' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	14
CONST.	2007	BRZE-7300(22)	18



INDEX OF SHEETS

STANDARD ROADWAY DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2007	BRZE-7300(22)	1.

SHEET NAME	SHEET NO.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD DRAWINGS INDEX	1A
ESTIMATED BRIDGE QUANTITIES AND BRIDGE INDEX	2
ESTIMATED ROADWAY QUANTITIES	2A
TYPICAL SECTIONS AND DETAILS	2B-2C
GENERAL NOTES	2D-2E
TABULATED QUANTITIES	2F
PROPERTY MAP	3
R.O.W. ACQUISITION TABLE	3A
PRESENT LAYOUT	4
R.O.W. DETAIL SHEET	4A
PROPOSED LAYOUT SHEET	4B
MARGRAVE DR. PROFILE	4C
QUEEN ST. PROFILE	5
DRIVEWAY PROFILES	6,7
EXISTING CONTOURS	8
PROPOSED CONTOURS	9
EROSION AND SEDIMENT CONTROL NOTES & PLANS	10-11
TRAFFIC CONTROL PLANS	12
MARGRAVE DR. CROSS SECTIONS	13-19
QUEEN ST. CROSS SECTIONS	20-23
UTILITIES INDEX, UTILITY OWNERS, AND UTILITY SHEETS	U1-1

DWG NO.	REV.	DESCRIPTION
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	04-15-04	STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL
RD-L-6	04-15-04	STANDARD LEGEND FOR EROSION AND SEDIMENT CONTROL
RD-S-11	03-31-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD-SA-1	03-31-03	SAFETY APPROACH TO UNDERPASSES GRADING DESIGN AND SLOPE PROTECTION
RD-SE-2	10-26-95	URBAN SUPERELEVATION DETAILS
RD-TS-2	03-31-03	DESIGN STANDARDS FOR COLLECTOR ROADS AND STREETS
RD-TS-6	03-31-03	TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER

DRAINAGE—CULVERTS AND ENDWALLS

D-PB-1	10-26-96	CLASS "B" BEDDING AND CULVERT EXCAVATION
D-PE-4	01-19-97	STRAIGHT, "L" AND "U" TYPE CONCRETE ENDWALL

DRAINAGE-CATCH BASINS AND MANHOLES

D-CB-12B	07-29-02	RECTANGULAR BRICK NO. 12 CATCH BASIN
D-CB-12LP	07-29-04	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN
D-CB-12P	07-29-02	PRECAST RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12RA	05-27-01	PRECAST 48" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RB	05-27-01	PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RC	05-27-01	PRECAST 84" THRU 120" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12S	07-29-02	RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12SB	07-29-02	4' X 4' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SC	09-11-02	5'2" X 5'2" SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SD	09-11-02	7' X 7' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SE	05-05-05	9' X 9' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-14B	07-29-02	RECTANGULAR BRICK NO. 14 CATCH BASIN
D-CB-14P	07-29-02	PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14RB	05-27-01	PRECAST CIRCULAR NO. 14RB CATCH BASIN
D-CB-14S	07-29-02	RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14SE	05-05/05	9' X 9' SQUARE CONCRETE NO. 14 CATCH BASIN
D-CB-16B	07-29-02	RECTANGULAR BRICK NO. 16 CATCH BASIN
D-CB-16S	07-29-02	RECTANGULAR CONCRETE NO. 16 CATCH BASIN
D-CB-42RB	05-27-01	PRECAST CIRCULAR NO. 42 CATCH BASIN
D-CB-42S	01-19-05	32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	07-29-04	4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SC		5'2" X 5'2" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SD	09-11-02	7' X 7' SQUARE CONCRETE NO. 42 CATCH BASIN

ROADWAY AND PAVEMENT APPURTENANCES

RP-D-14	05-27-96	DETAILS OF CONCRETE DRIVEWAYS
RP-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-NMC-11	02-28-02	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-R-1	05-27-01	RAMPS TO SIDE ROADS
RP-S-7	07-29-96	DETAILS FOR STANDARD CONCRETE SIDEWALKS
RP-S-8	01-19-93	DETAILS FOR STANDARD CONCRETE STEPS AND PIPE HANDRAILS

SAFETY APPURTENANCES AND FENCE

S-GR-11	06-30-05	W-BEAM & THRIE BEAM BARRIER RAIL AND RUB RAIL ALTERNATES
S-GR-12	05-27-03	W-BEAM BARRIER POST DETAILS AND SPECIFICATIONS
S-GR-13	05-27-03	BARRIER RAIL MOUNTING POST BLOCK-OUTS WITH VERTICAL ADJUSTMENT HOLES
S-GR-13A		BARRIER RAIL MOUNTING POST FOR PLASTIC BLOCK-OUTS WITH HORIZONTAL ADJUSTMENT HOLES
S-GR-14	09-05-98	W-BEAM BARRIER FASTENING HARDWARE AND BRIDGE APPROACH DELINEATORS
S-GR-15	06-30-05	W-BEAM BARRIER TERMINAL ELEMENT DETAILS
S-GR-23	09-11-02	GUARDRAIL ATTACHMENT TO STRUCTURES AND PROTECTIVE GUARDRAIL AT BRIDGE ENDS DETAILS
S-GR-24	05-27-01	MINIMUM INSTALLATION LENGTH FOR PROTECTIVE GUARDRAIL AT BRIDGE ENDS
S-GR-26	09-05-01	GUARDRAIL TERMINAL ANCHOR (TYPE 21) POST LAYOUT AND ERECTION DETAILS
S-GR-27	05-27-03	GUARDRAIL TERMINAL ANCHOR (TYPE 21) ELEMENT ASSEMBLY DETAILS
S-GR-28	12-18-98	GUARDRAIL TERMINAL ANCHOR (TYPE 21) POST AND ASSEMBLY DETAILS
S-GR-39	05-27-01	DETAILS FOR CONSTRUCTION OF EARTH PAD FOR TYPE 21 GUARDRAIL END TERMINALS

TRAFFIC CONTROL APPURTENANCES

T-M-1	04-15-04	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING
T-M-4	01-19-05	INTERSECTION PAVEMENT MARKINGS

EROSION CONTROL & LANDSCAPING

EC-STR-1	03-15-04	PAY ITEMS, GENERAL NOTES & TEMPORARY DEWATERING STRUCTURE
EC-STR-3C	07-29-04	TEMPORARY SILT FENCE WITH BACKING
EC-STR-27	04-15-06	TEMPORARY SLOPE DRAINS AND BERMS
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS
EC-STR-42		CATCH BASIN FILTER ASSEMBLY (TYPE 2)
EC-STR-42A		CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS
EC-STR-43		CATCH BASIN FILTER ASSEMBLY (TYPE 3)
EC-STR-43A		CATCH BASIN FILTER ASSEMBLY (TYPE 3) SLIPCOVER DETAILS
EC-STR-47		CATCH BASIN FILTER ASSEMBLY (TYPE 7)
EC-STR-47A		CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS
EC-STR-48		CATCH BASIN FILTER ASSEMBLY (TYPE 8)
EC-STR-48A		CATCH BASIN FILTER ASSEMBLY (TYPE 8) SLIPCOVER DETAILS



STATE OF TENNESSEE
DEPARTMENT OF REVENUE

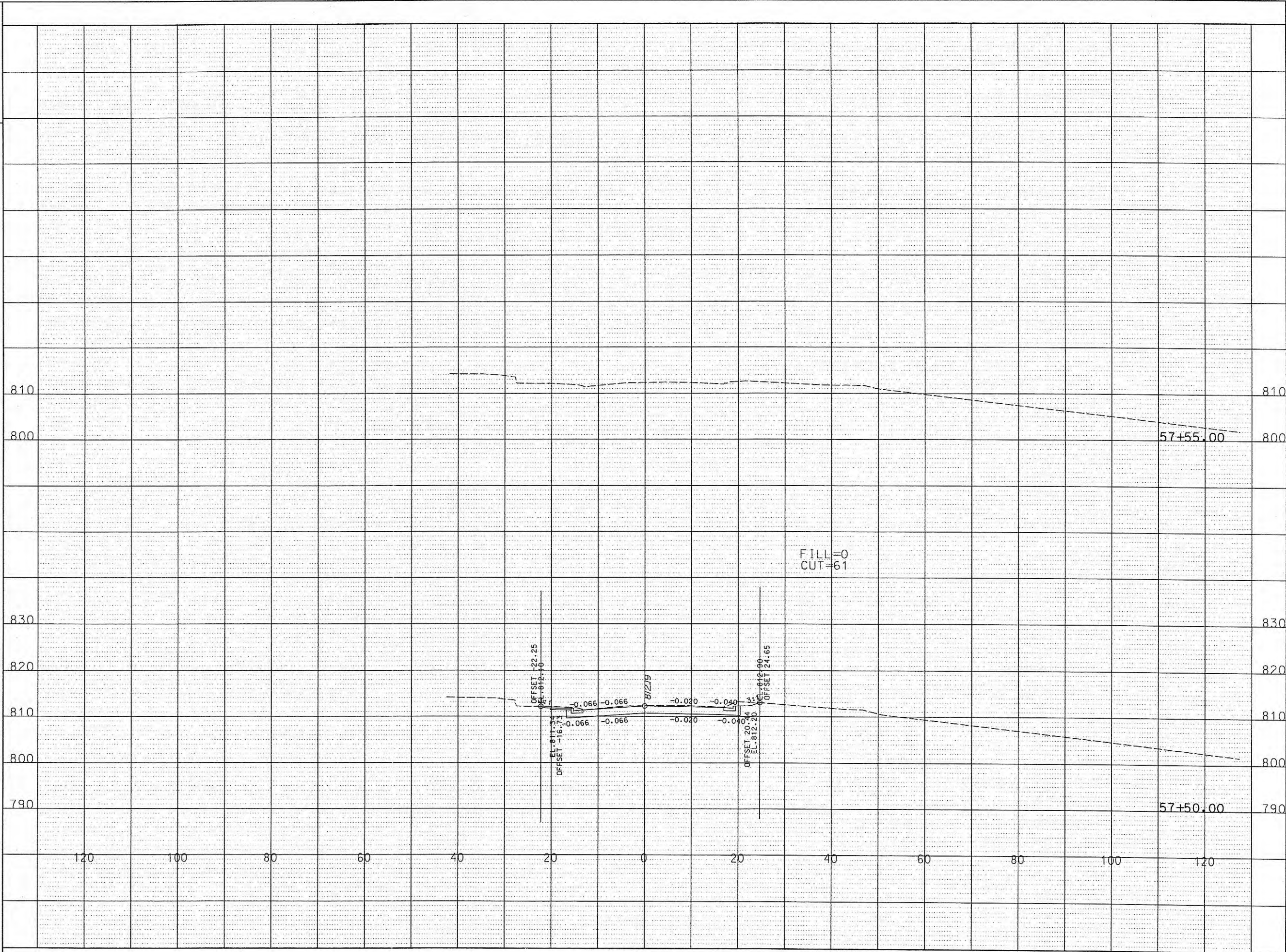
INDEX AND STANDARD DRAWINGS

SSSYTIMESSSSSSS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	15
CONST.	2007	BRZE-7300(22)	19

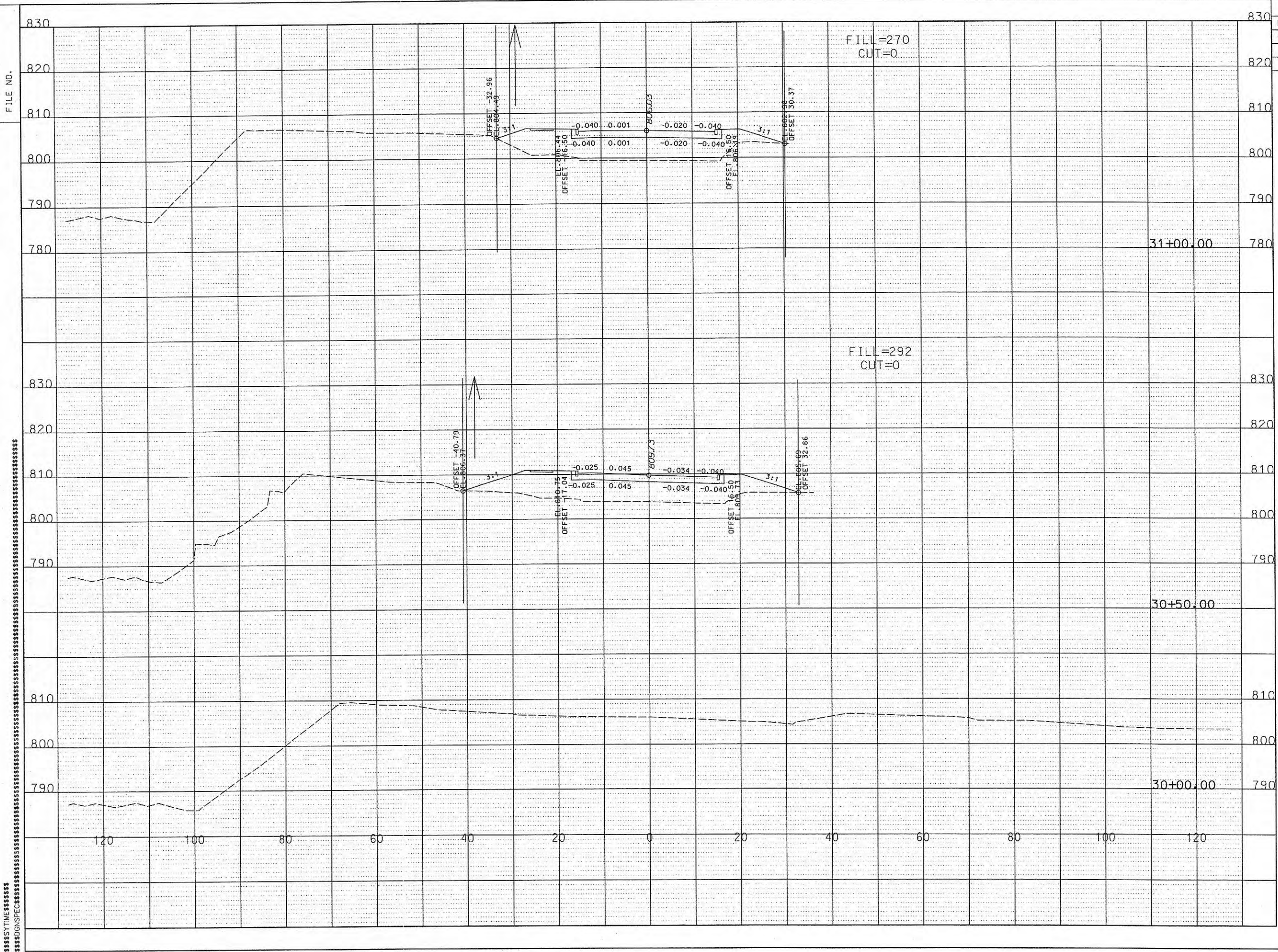
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

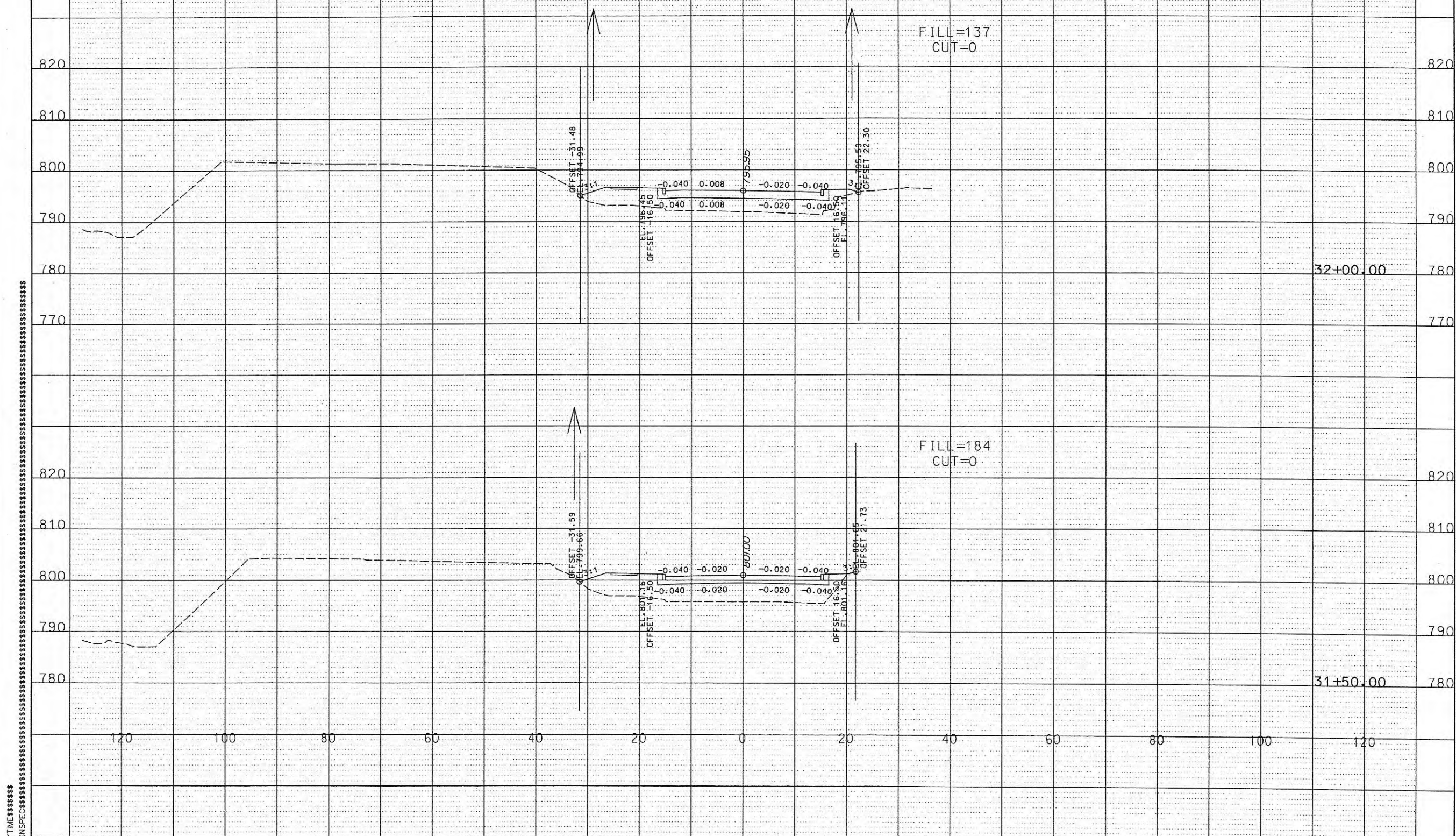
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	16
CONST.	2007	BRZE-7300(22)	20



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
QUEEN ST.
CROSS SECTIONS
STA. 30+00 TO STA. 31+00
SCALE: 1"=10' HORIZ.
1"=10' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	17
CONST.	2007	BRZE-7300(22)	21



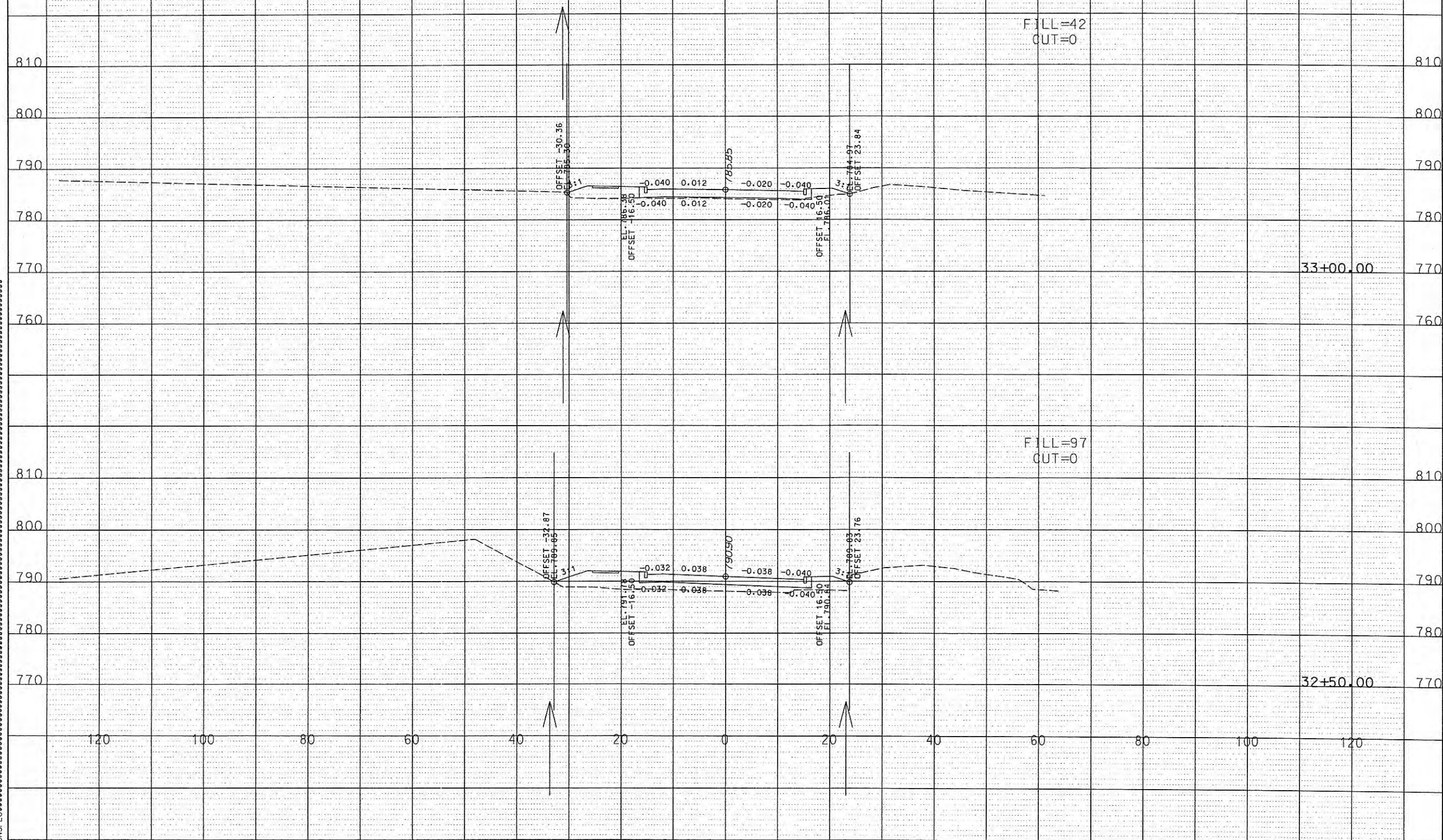
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

QUEEN ST.
CROSS SECTIONS

STA. 31+50 TO STA. 32+00

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	18
CONST.	2007	BRZE-7300(22)	22



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

QUEEN ST.
CROSS SECTIONS

STA. 32+50 TO STA. 33+00

SYTIME\$\$\$\$\$
\$DNCPE\$\$\$\$\$

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2007	BRZE-7300(22)	2A

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
201-01	CLEARING AND GRUBBING	LS	1
① 202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
202-02.01	REMOVAL OF PIPE (12" CMP, 54+50-55+50.)	L.F.	174
② 202-03	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC.	S.Y.	354
202-08.10	REMOVAL OF CURB (QUEEN STREET)	L.F.	770
202-08.15	REMOVAL OF CURB AND GUTTER (MARGRAVE DRIVE)	L.F.	526
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	4,210
203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	744
203-06	WATER	M.G.	25
204-07	BEDDING MATERIAL (PIPE) CLASS B	C.Y.	107
209-05	SEDIMENT REMOVAL	C.Y.	40
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	1,699
209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EACH	1
209-40.42	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EACH	2
209-40.43	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EACH	2
209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EACH	2
209-40.48	CATCH BASIN FILTER ASSEMBLY (TYPE 8)	EACH	1
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	1,953
307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	671
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	440
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	6
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	24
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	1
411-01.10	ACS MIX (PG64-22) GRADING D	TON	282
⑥ 604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	2
⑥ 604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	83
⑥ 604-01.04	1-1/2" STEEL PIPE HANDRAIL	L.F.	12
604-04.05	BRIDGE END DRAINS (4' X 8'-7")	EACH	4
607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	491
607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	61
③ 610-07.03	18" PIPE DRAIN (BRIDGE DRAIN)	L.F.	145

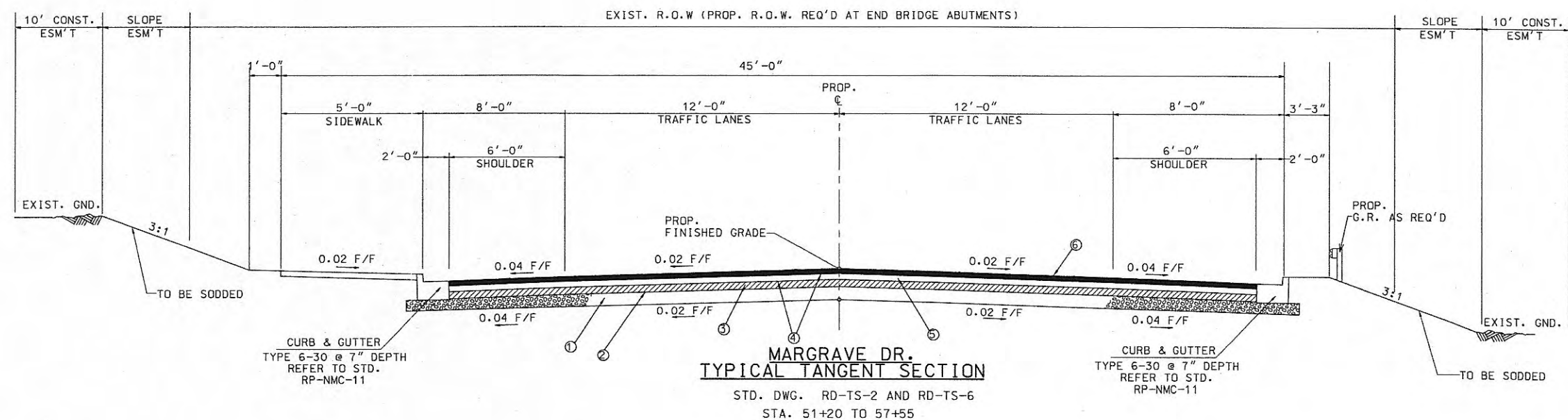
- ① ITEM FOR REMOVAL OF EXIST. CATCH BASIN'S LT. STA. 55+40± AND RT. STA. 55+50±.
② ITEM FOR REMOVAL OF EXIST. SIDEWALK ON MARGRAVE DR. AND QUEEN ST.
③ STD. DWG. STD 1-7 IS TO BE USED FOR BURIAL OF THE OUTLET PIPE AND FOR END TREATMENT DETAILS.
④ FOR ST EW'S AT STORM SEWER CODES 4 AND 10.
⑤ FOR EXIST. STOP SIGN AT QUEEN ST.
⑥ ITEMS FOR PROP. CONC. STEPS AND HANDRAIL ON TR. NO. 11 LT. OF STA. 55+80±.

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
④ 611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	3
611-12.02	CATCH BASINS, TYPE 12, 4' - 8' DEPTH	EACH	4
611-14.02	CATCH BASINS, TYPE 14, 4' - 8' DEPTH	EACH	2
611-16.03	CATCH BASINS, TYPE 16, 8' - 12' DEPTH	EACH	1
611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	1
701-01.01	CONCRETE SIDEWALK (4")	S.F.	4,988
701-02	CONCRETE DRIVEWAY	S.F.	2,474
702-01	CONCRETE CURB	C.Y.	22
702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	58
705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	54
705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	25
705-04.04	GUARDRAIL TERMINAL (TYPE 21)	EACH	2
③ 709-01.01	RUBBLE STONE RIP-RAP	C.Y.	11
712-01	TRAFFIC CONTROL	LS	1
712-06	SIGNS (CONSTRUCTION)	S.F.	60
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	97
⑤ 713-16.50	REMOVE AND REPLACE SIGN (STOP)	EACH	1
716-10.01	PREFORMED PLASTIC PAVEMENT MARKING (4" LINE)	L.M.	0.2
716-10.07	PREFORMED PLASTIC MARKING (STOP LINE)	L.F.	23
717-01	MOBILIZATION	LS	1
801-03	WATER (SEEDING & SODDING)	M.G.	20
803-01	SODDING (NEW SOD)	S.Y.	1,995

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATIONESTIMATED
ROADWAY
QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	2
CONST.	2007	BRZE-7300(22)	2B



PAVING SCHEDULE	
①	MINERAL AGGREGATE BASE 8" THICKNESS 303-01 MINERAL AGGREGATE TYPE A BASE, GRADING D
②	PRIME COAT 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) 402-02 AGGREGATE FOR COVER MATERIAL (PC)
③	BLACK BASE @ 3" THICKNESS (APPROX. 345 LBS/S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING A
④	TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)
⑤	BITUMINOUS BINDER @ 2" THICKNESS (APPROX. 226 LBS/S.Y.) 307-01.08 ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING B-M2
⑥	ASPHALTIC CONCRETE SURFACE @ 1.25" THICKNESS (APPROX. 132.5 LBS/S.Y.) 411-01.10 ACS MIX (PG64-22) GRADING D

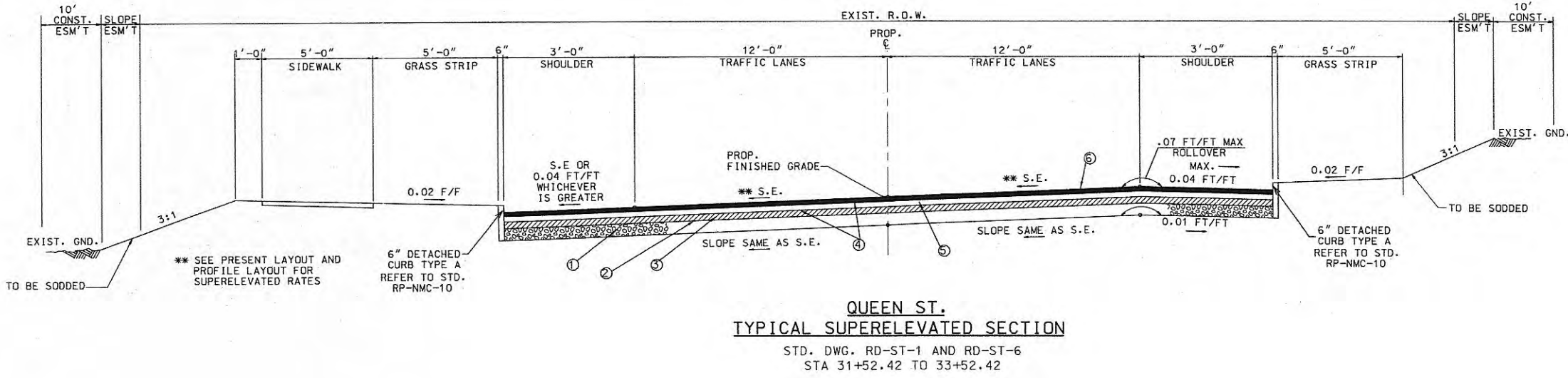
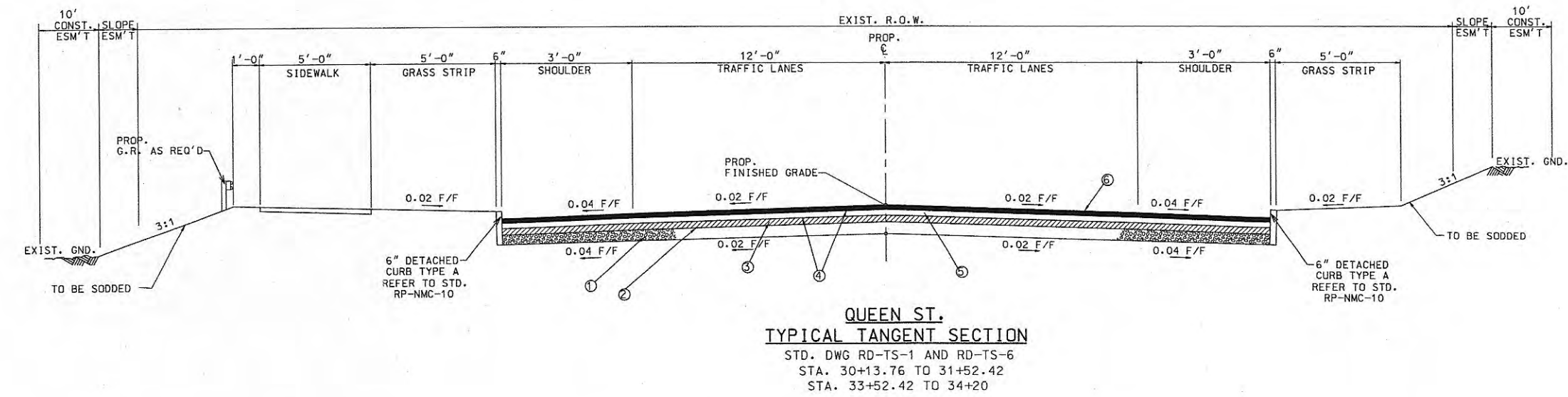


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

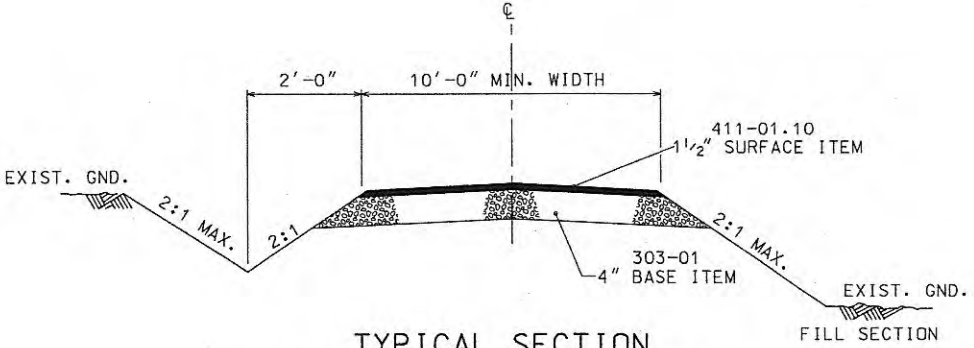
TYPICAL
SECTIONS

NOT TO SCALE

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2005	BRZE-7300(22)	2A
CONST.	2007	BRZE-7300(22)	2C

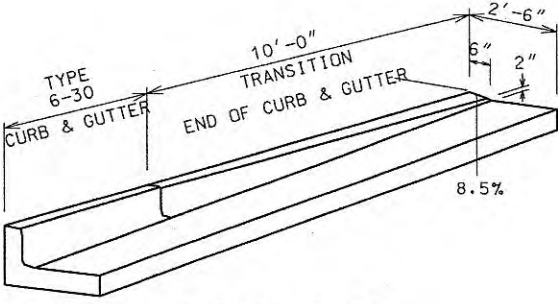


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⑥	ASPHALTIC CONCRETE SURFACE @ 1.25" THICKNESS (APPROX.132.5 LBS/S.Y.) 411-01.10 ACS MIX (PG64-22) GRADING D



**TYPICAL SECTION
PRIVATE DRIVE TO FIELD
OR RESIDENTIAL PROPERTY**

- ① REFER TO PROP. LAYOUTS FOR LOCATIONS
- ② WHERE SURFACE OF EXIST. DRIVE IS CONCRETE, SUBSTITUTE 6" OF CONCRETE FOR BASE AND SURFACE.
- ③ DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER



**TYPE 6-30
CURB & GUTTER
TRANSITION DETAIL**
THIS DETAIL SHALL APPLY TO ALL ENDING
SECTIONS OF CURB & GUTTER

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2007	BRZE-7300(22)	20

GRADING

- (1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- (3) 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

- (4) 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.

GUARDRAIL

- (5) 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

- (6) EXCAVATION FOR PIPE CULVERTS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.
- (7) 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

- (8) 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.
- (9) 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.
- (10) 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.
- (11) 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.

- (12) 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

- (13) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.
- (14) 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

ROAD CLOSURE NOTES

- (15) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMING WITHIN THE PROJECTED ROAD CLOSURE: (1) 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.

PAVEMENT MARKINGS

- (16) PERMANENT PAVEMENT LINE MARKINGS SHALL BE PREFORMED PLASTIC INSTALLED TO PERMANENT STANDARDS PRIOR TO OPENING TO TRAFFIC. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-10.01 PREFORMED PLASTIC PAVEMENT MARKING (4" LINE). LIN. MI.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL NOTES

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

- (18) 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.

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

- (20) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

- (21) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH

CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF A OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE... WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

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

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

- (23) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 10 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.

- (24) ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL MEASURES OVER TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ON ALL PROJECTS.

- (25) EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED CONCURRENTLY WITH CLEARING OPERATIONS, AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.

- (26) EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) INSPECTION, REPAIR, AND MAINTENANCE OF STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS AND 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 EROSION PREVENTION AND SEDIMENT CONTROL STRUCTURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.

- (27) 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.

- (28) 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.

- (29) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES TO PROTECT WATER QUALITY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL 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.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL
NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2007	BRZE-7300(22)	2E

GENERAL NOTES (CONT.)

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

- (30)

PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES SHALL BE INITIATED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 15 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE, NON-ERODING SURFACE, SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER RUNS WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.
- (31)

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 EROSION PREVENTION AND SEDIMENT CONTROL (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.
- (32)

INSPECTION OF EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE DONE BEFORE ANTICIPATED STORM EVENTS (OR SERIES OF STORM EVENTS SUCH AS INTERMITTENT SHOWERS OVER ONE OR MORE DAYS), DURING OR WITHIN TWENTY-FOUR (24) HOURS AFTER THE END OF A STORM EVENT OF 0.5 INCH OR GREATER, AND AT LEAST TWICE PER CALENDAR WEEK AT LEAST 72 HOURS APART. A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. AN ANTICIPATED STORM EVENT IS DEFINED AS A 50% OR GREATER CHANCE OF RAINFALL ACCORDING TO A DOCUMENTED LOCAL OR NATIONAL SOURCE (I.E., NOAA, WEATHER.COM, LOCAL NEWSPAPER).
- (33)

UPON CONCLUSION OF THE INSPECTIONS, EROSION PREVENTION AND SEDIMENT CONTROL (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 PRACTICABLE 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.
- (34)

THE CONTRACTOR SHALL MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN ON-SITE (OR AT NEARBY OFFICE) AND SHALL PLACE COPIES OF ANY PROJECT-RELATED PERMITS ON THE PROJECT BULLETIN BOARD.
- (35)

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.
- (36)

BORROW AND WASTE DISPOSAL 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.
- (37)

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 STATE AND/OR LOCAL AGENCIES REGARDING THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS.
- (38)

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.
- (39)

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 SHALL REVIEW AND APPROVE ANY REVISION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.
- (40)

EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN, AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY. ALL EPSC MEASURES AS WELL AS BUFFER ZONES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE KEPT IN GOOD AND EFFECTIVE OPERATION CONDITION.
- (41)

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, EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) INSPECTION RECORDS AND PRECIPITATION RECORDS.
- (42)

ALL WATER QUALITY AND STORM WATER PERMITS, INCLUDING THE LOCATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), 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.
- (43)

IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.
- (44)

THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE UPDATED BY CONSTRUCTION WHENEVER EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) INSPECTIONS INDICATE THE SWPPP IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR IS OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH THE 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.
- (45)

IF PERMANENT OR TEMPORARY VEGETATION IS TO BE USED AS AN EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURE, THEN THE TIMING OF PLANTING OF VEGETATION SHALL BE SHOWN IN THE STORM WATER POLLUTION PREVENTION PLAN. DELAYING PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.
- (46)

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.

- (47)

PROJECT INSPECTORS AND SUPERVISORS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS SHALL SUCCESSFULLY COMPLETE THE TDEC "FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL" (REFERRED TO AS "LEVEL ONE") COURSE OR EQUIVALENT COURSE. A COPY OF CERTIFICATION RECORDS FOR THIS COURSE SHALL BE KEPT ON SITE AND AVAILABLE UPON REQUEST.
- (48)

EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL
NOTES

CATCHBASINS AND MANHOLES							
SHEET NO.	LOCATION	STATION	OFFSET (FT)	DRAINAGE CODE	GRATE/TOP ELEVATION	STRUCTURE TYPE	DEPTH (FT)
4B	LT.	57+38.00	15.80	1	811.78	14S	4.42
4B	RT.	57+38.00	19.10	2	812.17	14S	5.27
4B	RT.	56+18.00	20.15	3	813.67	16S	8.16
4B	LT.	32+50.00	32.87	5	789.85	42S	3.50
4B	LT.	32+44.00	14.00	6	791.84	12S	5.98
4B	RT.	32+44.00	14.00	7	791.01	12S	5.64
4B	RT.	34+11.00	14.00	8	775.51	12S	4.20
4B	LT.	34+11.00	14.00	9	776.20	12S	4.25

STORM SEWER PIPES												
SHEET NO.	FROM		TO		% GRADE	REINFORCED CONCRETE PIPE-CLASS III SIZE (IN) AND LENGTH (FT)						BEDDING MATERIAL 204-07 (C.Y.)
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		15"	18"	24"	30"	36"	42"	
4B	1	807.36	2	807.03	1.0	33						7
4B	2	806.90	3	805.71	1.0	119						26
4B	3	805.51	4	801.20	5.9	73						16
4B	5	786.35	6	786.07	1.4	20						5
4B	6	785.86	7	785.58	1.0	28						6
4B	7	785.37	8	771.41	8.62	162						35
4B	9	771.95	8	771.41	1.93	28						6
4B	8	771.31	10	771.13	0.64	28						6
TOTALS						491						107

ESTIMATED GRADING QUANTITIES						
STATION TO STATION	ROAD & DRAINAGE EXC. (UNCL.) (C.Y.)		BORROW EXCAVATION		CHANNEL EXC. (C.Y.)	EXCESS EXC. WASTE (C.Y.)
			UNCL (C.Y.)	S. ROCK (C.Y.)		EMB. (C.Y.)
M.L. (51+20 TO 57+55)	321					1,520
QUEEN ST. (30+00 TO 34+20)	109					1,660
EXCAVATION FOR BRIDGE DRIVES	3,425					0
	354					1,127
TOTAL	4,209		744			4,307

SHR = 15% SW = 15%

SIDE DRAIN TABULATION																		
STATION	LOCATION		DESCRIPTION	SURFACE WIDTH (LF)	RCP CLASS III or CMP 16 g or HDPE (LF)				RCP CLASS III or CMP 14 g (LF)				END TREATMENT					REMARKS
					FILL HEIGHT * 10 ft				FILL HEIGHT ϕ 10 ft and * 18 ft				TYPE	DRAWING NO.	CLASS A CONC. 611-07.01 (C.Y.)	REINF STEEL 611-07.02 (LB)	STRUCT STEEL 611-07.03 (LB)	
	18"	24"			30"	36"	18"	24"	30"	36"								
56+00 M.L.	X		PVT. DR.	10	20'								NA					
56+16 M.L.	X		PVT. DR.	10	20'								NA					
32+62 QUEEN		X	PVT. DR.	10	21'								NA					
TOTALS					61'													

PROPOSED GUARDRAIL									
STATION / LOCATION		SINGLE GUARDRAIL (TYPE 2) 705-02.02 L.F.	SINGLE GUARDRAIL AT BRIDGE END 705-01.01 L.F.	TERMINAL ANCHORS				GUARDRAIL REMOVED 706-01 L.F.	
				TYPE 12 705-04.02 EACH	TYPE IN-LINE 705-04.05 EACH	TYPE 21 705-04.04 EACH	TYPE 38 705-04.07 EACH		
FROM	TO								
QUEEN ST. STA. 30+99.54 RT.	BRIDGE RT.	12.5'	26.896'			1			
BRIDGE RT.	M.L. STA. 56+41.59 RT.	12.5'	26.896'			1			
TOTALS		25'	53.792'			2			

