Index Of Sheets
RESURFACING
SEE SHEET IA

TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.	----------	
STATE PROJ. NO.	74945-3480-04	

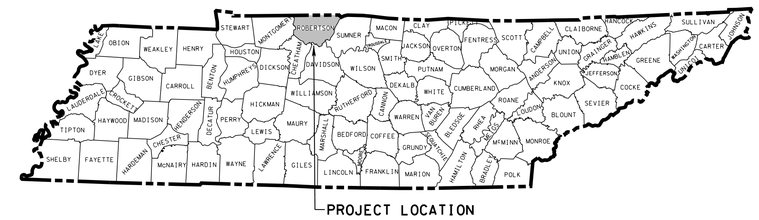
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

ROBERTSON COUNTY

STATE INDUSTRIAL ACCESS ROAD
SERVING PROJECT VAUGHN PARKWAY
VAUGHN PARKWAY - FROM PAYNE RD.
TO WEST OF LAKE SPRINGS RD.

CONSTRUCTION

STATE HIGHWAY NO. N/A F.A.H.S. NO. N/A



NO RIGHT-OF-WAY REQUIRED

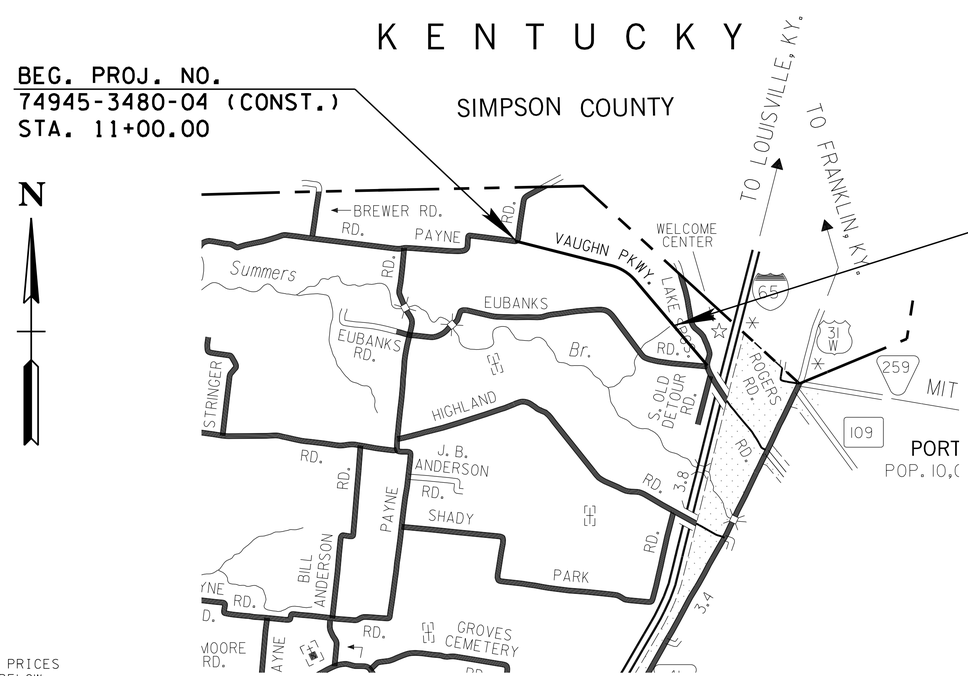
NO EXCLUSIONS
NO EQUATIONS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BEG. PROJ. NO.
74945-3480-04 (CONST.)
STA. 11+00.00

END PROJ. NO.
74945-3480-04 (CONST.)
STA. 72+32.11
~~BEG. PROJ. NO.~~
~~STP/HPP/NH-I-65-3(113),~~
~~74003-3164-44 (CONST.)~~
~~STA. 420+30.00~~



SCALE: 1"= 0.50 MILE

PROJECT LENGTH 1.161 MILES

TRAFFIC DATA	
ADT (20)	
V	30 MPH

ORIGINAL SURVEY: 01/07/2014

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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 C.E. MANAGER 1 FREDERICK MILLER
DESIGNED BY THY, INC.
DESIGNER TECK TANG CHECKED BY KENNETH YOUNG
P.E. NO. 74945-1480-04
PIN NO. 118864.00

4/18/2014 1:19:17 PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\001.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	1A
CONST.	2014	74945-3480-04	1A

INDEX

SHEET NAME	SHEET NO.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD DRAWINGS INDEX	1A
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVING SCHEDULE	2A
GENERAL NOTES	2B-2C
DETAIL SHEETS	2D
NOT USED	3
PRESENT LAYOUTS	4-8
PROPOSED LAYOUTS	4A-8A
PROPOSED PROFILES	4B-8B
EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS	9-14
TRAFFIC CONTROL PLANS WITH CONSTRUCTION PHASING NOTES	15,15A-15B
ROADWAY CROSS-SECTIONS	16-33
UTILITIES INDEX, UTILITY OWNERS, AND UTILITY SHEETS	U1-1

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD-UD-4	05-27-01	UNDERDRAIN LATERAL DETAILS
RD-UD-7	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
SAFETY APPURTENANCES AND FENCE		
S-F-1	05-24-12	HIGH VISIBILITY FENCE
TRAFFIC CONTROL APPURTENANCES		
T-M-1	11-01-11	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-15-13	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	10-10-06	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-S-9	11-01-11	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-16	11-01-11	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-16A	11-01-11	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
T-S-23A	07-19-13	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY SQUARE TUBE SIGN SUPPORT
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

5/12/2014 1:37:44 PM
C:\G-TDOT-Projects\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\001A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	2
CONST.	2014	74945-3480-04	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
6	203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	1000
	203-05	SEDIMENT REMOVAL	C.Y.	210
	203-06	WATER	M.G.	100
5	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	174
5	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	12500
5	209-09.04	SEDIMENT FILTER BAG (15'X10')	EACH	4
3	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	22664
5	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	12
7	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	242
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	5585
	307-02.02	ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING A-S	TON	108
	307-02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	3204
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	2773
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	46
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	180
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	23
2	407-02.13	REMOVAL & DISPOSAL OF EXISTING ASPHALT PAVEMENT	S.Y.	24528
4	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	1257
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	1626
8	702-01.02	CONCRETE CURB	L.F.	300
	705-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	315
	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP 350 TL-3	EACH	14
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	270
5	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	200
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	12264
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	6100
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	40
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	10
	712-06	SIGNS (CONSTRUCTION)	S.F.	97
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	40
	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	400
	713-11.01	U SECTION STEEL POSTS	LB.	122
	713-13.02	FLAT SHEET ALUMINIUM SIGNS (0.080" THICK)	S.F.	24
	716-04.02	PLASTIC PAVEMENT MARKING (DOUBLE TURNING ARROW)	EACH	12
1	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	17
	717-01	MOBILIZATION	LS	1
5	740-10.03	GEOTEXTILE (TYPE III) EROSION CONTROL	S.Y.	492
5	740-11.01	TEMPORARY SEDIMENT TUBE 8IN (EROSION CONTROL)	L.F.	80
	801-03	WATER (SEEDING AND SODDING)	M.G.	5
	803-01	SOD (NEW SOD)	S.Y.	50

FOOTNOTES:

1 INCLUDES 10 MILES FOR TWO PHASES OF TRAFFIC CONTROL.
2 INCLUDES ALL MATERIAL FROM THE SURFACE TO A DEPTH OF 20.25" TO ACCOMMODATE THE NEW PAVEMENT.
3 INCLUDES 301 TONS FOR BUSINESS ENTRANCE PAVING AND 3000 TONS FOR TEMPORARY WIDENING.
4 INCLUDES 86 TONS FOR BUSINESS ENTRANCE PAVING AND 750 TONS FOR TEMPORARY PAVING.
5 SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
6 INCLUDES 29 C.Y. FOR EROSION CONTROL.
7 FOR TEMPORARY WIDENING AND BUSINESS ENTRANCE PAVING.
8 NEW CONCRETE CURB SHALL MATCH THE TYPE TO BE REPLACED.

UNOFFICIAL SET

NOT FOR BIDDING

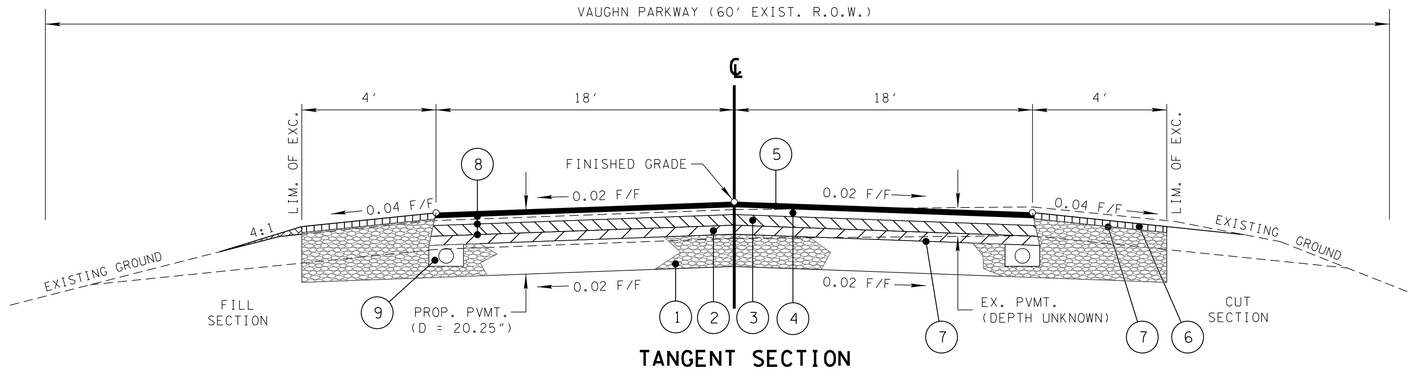
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

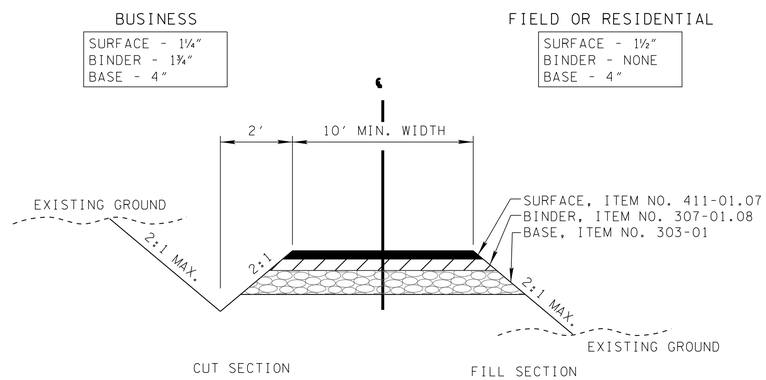
5/12/2014 1:25:54 PM
C:\G-TDOT-Projects\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\002.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	2A
CONST.	2014	74945-3480-04	2A



TANGENT SECTION

STA. 11+00.00 TO STA. 72+32.11



TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS,
FIELD, OR RESIDENTIAL PROPERTY

PROPOSED PAVEMENT SCHEDULE

(1) MINERAL AGGREGATE BASE - 10in. THICK 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	(6) ASPHALT CONC. SURFACE- 1.5in. THICK(154.5 LB/SY) 411-01.07 ACS MIX (PG 64-22) GRADING "E" SHOULDER
(2) BITUMINOUS PLANT MIX BASE - 3in. THICK (270 LB/SY) 307-02.02 ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING "A-S" 307-02.03 AGGREGATE (BPMB-HM) GRADING A-S MIX	(7) PRIME COAT 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) (0.30-0.35 Gal/SY) 402-02 AGGREGATE FOR COVER MATERIAL (PC) (8-12 LB/SY)
(3) BITUMINOUS PLANT MIX BASE - 4in. THICK (460 LB/SY) 307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "A"	(8) TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (0.02 Gal/SY)
(4) BITUMINOUS PLANT MIX BASE - 2in. THICK (226 LB/SY) 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "B-M2"	(9) UNDERDRAINS 710-02 AGGREGATE UNDERDRAINS (WITH PIPE) REFERENCE STD. DWG. RD-UD-3 & RD-UD-4
(5) ASPHALTIC CONCRETE SURFACE - 1.25in. THICK (132.5 LB/SY) 411-02.10 ACS MIX (PG70-22) GRADING "D"	(10) BITUMINOUS PLANT MIX BASE - 2in. THICK (197.75 LB/SY) 307-01.08 ASPHALT CONCRETE MIX (PG 64-22)(BPMB-HM)GRADING "B-M2"

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

4/18/2014 1:22:32 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\002A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	2B
CONST.	2014	74945-3480-04	2B

GENERAL NOTES

MISCELLANEOUS

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

(2) 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

(1) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS 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 (4" LINE), L.M.

(2) 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.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(3) THE PAVEMENT MARKING ON THE LANE SHIFTS FOR CENTERLINES AND EDGELINES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO.716-05.01 PAINTED PAVEMENT MARKING (4IN LINE) LIN. MI.

(4) BEFORE OPENING THE LANE SHIFT TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM 712-09.01 REMOVABLE PAVEMENT MARKING LINE, LIN. FT. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01 TRAFFIC CONTROL, LUMP SUM.

PAVEMENT

PAVING

(1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.

(2) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

(3) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

RESURFACING

(4) WHERE DIRECTED BY THE TDOT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(5) ALL PUBLIC SIDE ROADS SHALL BE PAVED ONE PAVER WIDTH THROUGH THE INTERSECTION AS A MINIMUM. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD OR BUSINESS ENTRANCE SHALL BE PROVIDED. SHOULD THE PAVEMENT OF THE INTERSECTING PUBLIC ROAD BE DISTRESSED, THE RESURFACING WIDTH MAY BE INCREASED TO THE NORMAL RIGHT OF WAY LINE.

(6) PRIVATE DRIVEWAYS, FIELD ENTRANCES, AND BUSINESS ENTRANCES WILL BE RESURFACED A PAVER WIDTH (LANE WIDTH) AS A MINIMUM. A PAVEMENT TAPER TO TRANSITION THE NEW PAVEMENT SHALL BE REQUIRED, IT SHALL BE BASED ON AN ADDITIONAL ONE FOOT OF WIDTH PER ONE INCH DEPTH OF PAVEMENT. IF THE SHOULDER IS NARROW ENOUGH THAT THE SUM OF THE SHOULDER AND THE TRANSITION ARE LESS THAN A PAVER WIDTH, THE TRANSITION SHALL OCCUR WITHIN THE PAVER WIDTH. IF THE SUM OF THE SHOULDER AND THE TRANSITION IS GREATER THAN A PAVER WIDTH (LANE WIDTH), THE TRANSITION SHALL OCCUR OUTSIDE OF THE PAVER WIDTH.

(7) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.

(8) ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.

(9) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, OR BROWN BACKGROUND.

(10) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

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) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

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

(5) 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.

(6) 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.

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

(8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE VERTICAL PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

EROSION PREVENTION AND SEDIMENT CONTROL

SEDIMENT CONTROL

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

(10) 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 BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

(11) 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.

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

INSPECTION, MAINTENANCE, REPAIR

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

(14) 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.

(15) 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.

(16) 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.

(17) 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. QUALITY ASSURANCE/QUALITY CONTROL SITE ASSESSMENT OF EPSC SHALL BE PERFORMED PER THE

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

4/8/2014 1:22:33 PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\002B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	2C
CONST.	2014	74945-3480-04	2C

GENERAL NOTES CONT'D.

TDOT ENVIRONMENTAL DIVISION'S COMPREHENSIVE INSPECTION OFFICE GUIDELINES.

(18) 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.

(19) 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.

(20) THE TDOT PROJECT SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT PROJECT SUPERVISOR OR THEIR DESIGNEE WILL COMPLETE THE INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

MATERIALS

(21) 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.

SWPPP, PERMITS, PLANS, RECORDS

(22) 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.

(23) 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, ROOADWAY 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.

(24) 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, QUALITY ASSURANCE SITE ASSESSMENT RECORDS, PRECIPITATION RECORDS, SWPPP, PROJECT ENVIRONMENTAL PERMITS, AND A COPY OF THE PROJECT EPSC INSPECTOR'S TDEC LEVEL 1 CERTIFICATION.

(25) ALL WATER QUALITY AND STORM WATER PERMITS, INCLUDING A COPY OF THE NOC WITH NPDES PERMIT TRACKING NUMBER AND THE LOCATION OF THE SWPPP, SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BREIF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. 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. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

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

(27) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE 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. A COPY OF ANY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS SHALL BE RETAINED IN THE SWPPP.

(28) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER A CHANGE IN CHEMICAL TREATMENT METHODS IS MADE INCLUDING USE OF A DIFFERENT CHEMICAL, DIFFERENT DOSAGE OR APPLICATION RATE, OR A DIFFERENT AREA OF APPLICATION.

(29) IF A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION) THE SWPPP SHALL BE MODIFIED OR UPDATED.

(30) 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 1 - 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 THE COURSES SHALL BE KEPT ON SITE AND AVAILABLE UPON REQUEST.

LITTER, DEBRIS, WASTE, PETROLEUM

(31) 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.

(32) 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.

UNOFFICIAL SET

NOT FOR BIDDING

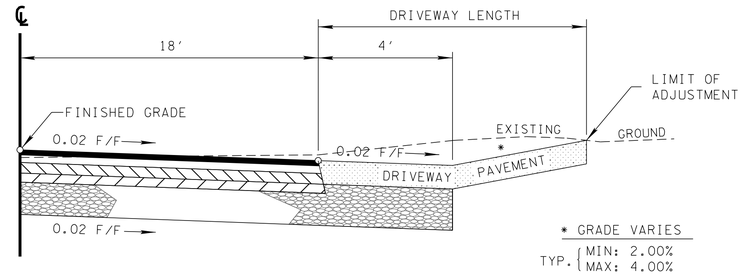
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

4/18/2014 1:24:58 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\002C.sht

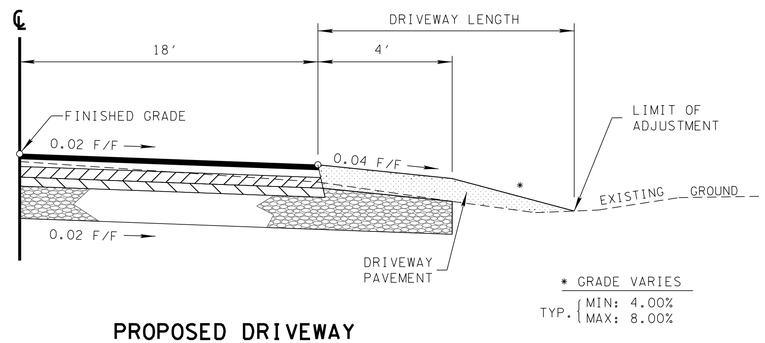
TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	2D
CONST.	2014	74945-3480-04	2D



PROPOSED DRIVEWAY

(CUT SECTION)

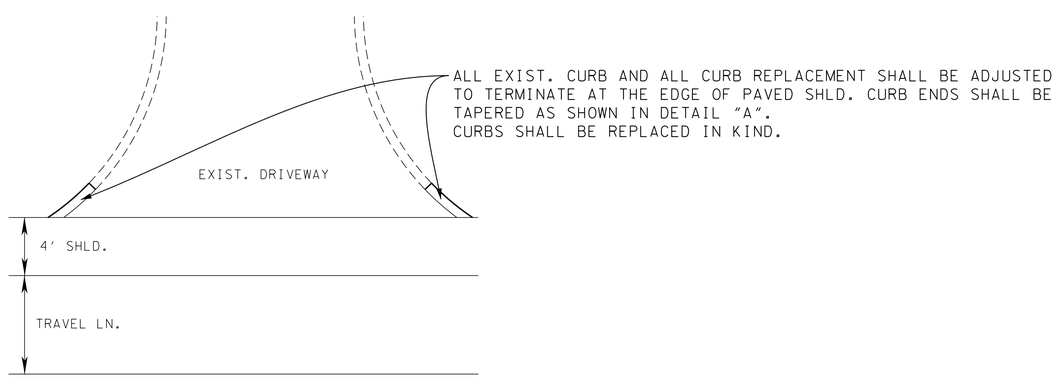
WHEN PROPOSED E.P. IS BELOW EXISTING GRADE.



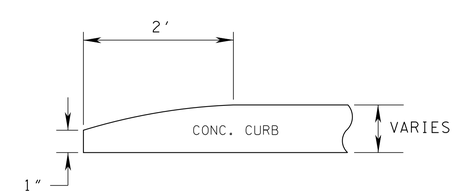
PROPOSED DRIVEWAY

(FILL SECTION)

WHEN PROPOSED E.P. IS ABOVE EXISTING GRADE.



CURB ADJUSTMENT DETAIL



DETAIL "A"

UNOFFICIAL SET

NOT FOR BIDDING

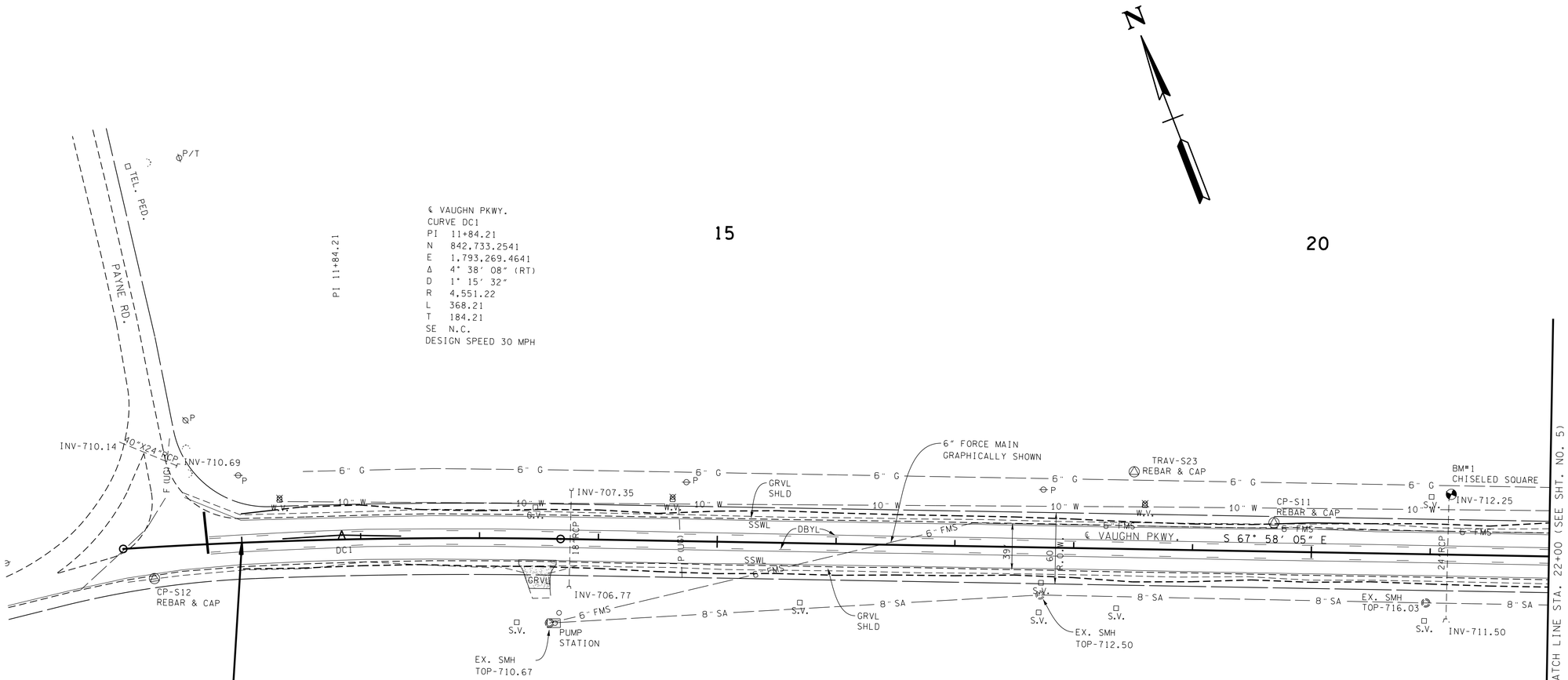
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAILS

4/18/2014 12:27:13 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\002D.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	4
CONST.	2014	74945-3480-04	4



NOTE:
CONTRACTOR SHALL EXERCISE CAUTION WHEN COMPACTING OVER THE FORCE MAIN.

UTILITY OWNERS

UTILITY	OWNER	PHONE NO.	CONTACT	EMAIL	ADDRESS	CITY	STATE	ZIP CODE
TELEPHONE	AT&T	615.214.7318	KIM BEAN	kb1078@att.com	333 COMMERCE ST., RM. 23C-142	NASHVILLE	TN	37201
WATER / SEWAGE	CITY OF PORTLAND	615.325.6776	THOMAS McCORMICK	tmccormick@ cityofportlandtn.gov	100 SOUTH RUSSELL ST.	PORTLAND	TN	37148
GAS	CITY OF PORTLAND	615.325.6776	THOMAS McCORMICK	tmccormick@ cityofportlandtn.gov	100 SOUTH RUSSELL ST.	PORTLAND	TN	37148
	CITY OF SPRINGFIELD	615.382.1621	GEORGE HALL	ghallsgs@ bellsouth.net	1311 R W GORDON	SPRINGFIELD	TN	37172
POWER	CUMBERLAND ELECTRIC MEMBERSHIP CORP.	931.645.2481	MARK COOK	mcook@cemc.org	1940 MADISON EXT.	CLARKSVILLE	TN	37043
CABLE TV	COMCAST (XFINITY)	615.244.7462	NICK LEE	nick_lee@ cable.comcast.com	660 MAINSTREAM DRIVE	NASHVILLE	TN	37228
FIBER OPTIC	LEVEL 3 COMMUNICATIONS, INC.	720.888.7280	TIM BOYKIN	tim.boykin@ level3.com Level3NetworkRelocations @Level3.com	1025 ELDORADO BLVD. SUITE 33A-521	BROOMFIELD	CO	80021
	CHARTER COMMUNICATIONS	931.241.8441	CURT BALANCE	curt.ballance@charter.com	1850 BUSINESS PARK DR. S-101	CLARKSVILLE	TN	37040-0022

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S6	840463.4496	1797606.5367	729.59	61+26.05	25.79′ (LT)
S7	841249.3225	1796709.4205	748.27	49+33.62	23.64′ (LT)
S8	841587.5897	1796167.3388	748.91	42+99.71	25.22′ (LT)
S9	841921.5614	1795343.5062	737.41	34+11.07	25.61′ (LT)
S10	842173.1007	1794716.5327	726.63	27+35.53	23.58′ (LT)
S11	842461.5563	1794005.5640	716.60	19+68.27	24.27′ (LT)
S12	842755.5609	1793109.3549	715.30	10+24.90	26.52′ (RT)
S20	841656.6774	1796143.8260	748.69	42+52.31	80.29′ (LT)
S21	842008.3661	1795445.1160	737.59	34+72.70	144.19′ (LT)
S22	842310.3856	1794483.9710	716.58	24+68.45	63.60′ (LT)
S23	842543.6906	1793911.1270	715.13	18+49.92	64.98′ (LT)
S24	839916.9532	1798296.5680	726.51	70+05.37	70.48′ (LT)
S25	840483.8229	1797438.0420	734.91	59+86.23	70.42′ (RT)
S26	841197.4672	1796639.4290	750.07	49+14.07	61.29′ (RT)
S50	839279.8614	1798870.9579	725.77	78+56.54	31.72′ (RT)
S60	839774.4751	1798306.1977	721.75	71+06.38	30.46′ (RT)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

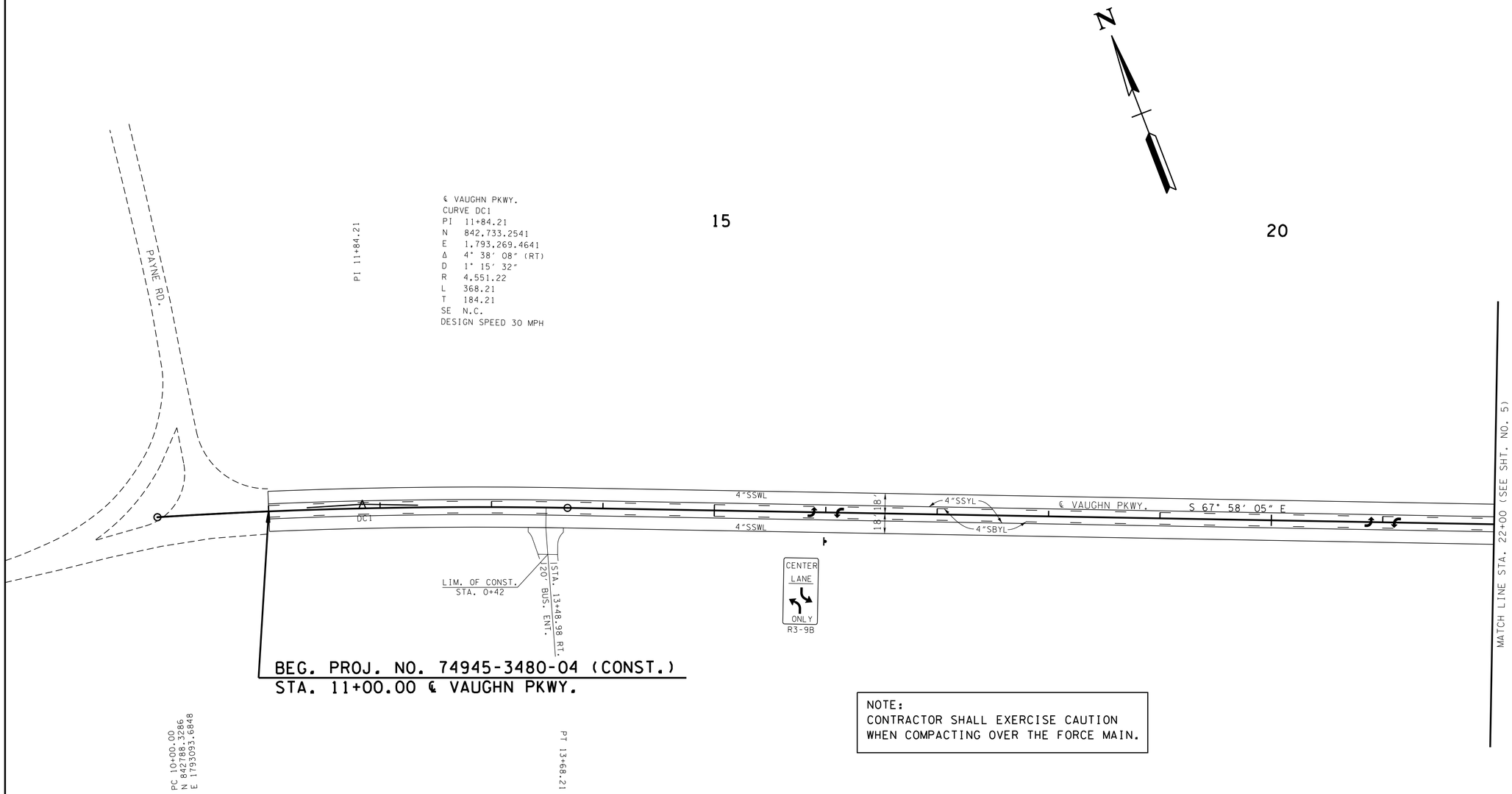
PRESENT LAYOUT

BEG. PROJ. TO STA. 22+00

SCALE: 1"= 50′

4/18/2014 12:7:15 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\004.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	4A
CONST.	2014	74945-3480-04	4A



NOTE:
CONTRACTOR SHALL EXERCISE CAUTION WHEN COMPACTING OVER THE FORCE MAIN.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

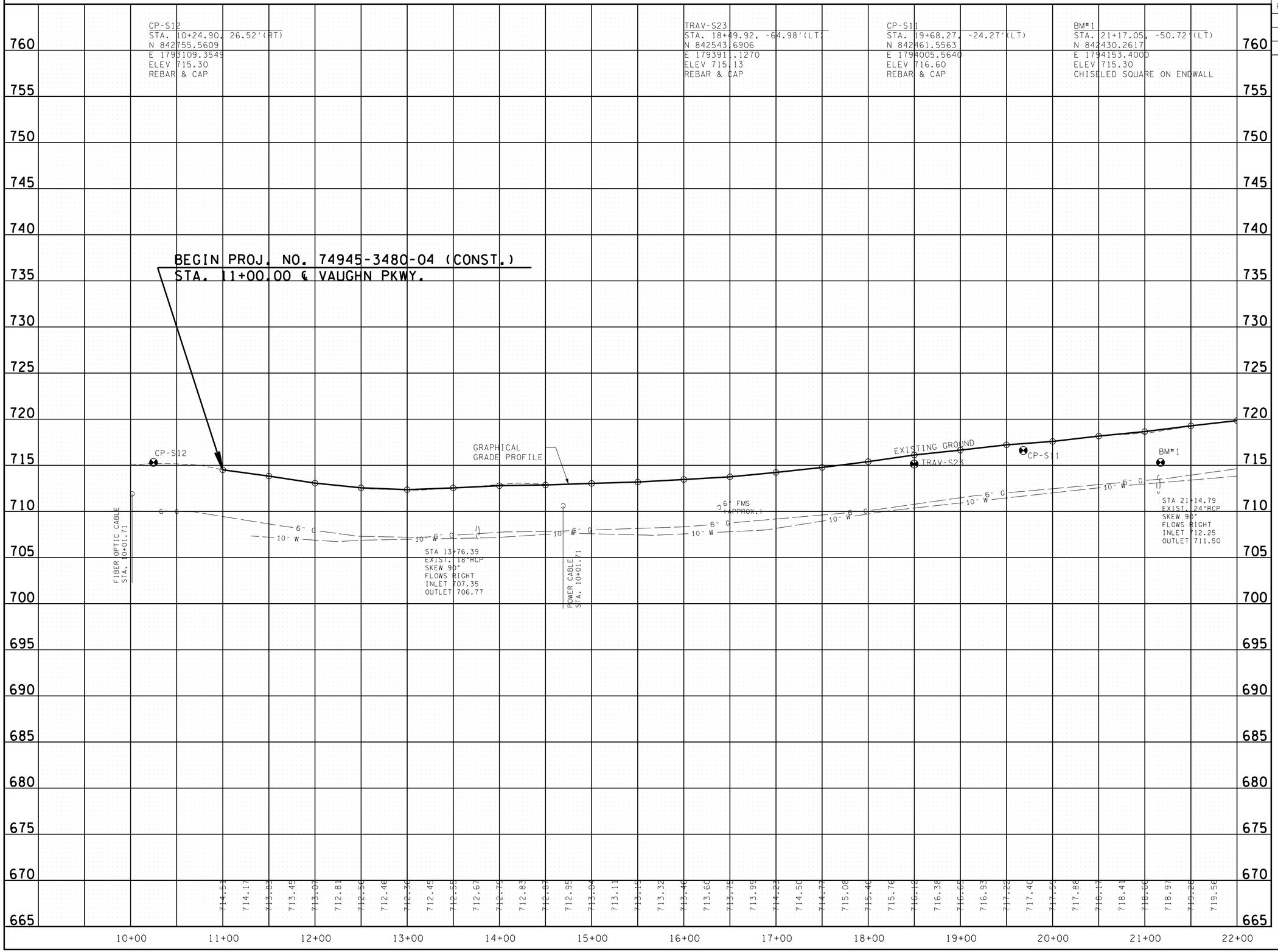
PROPOSED LAYOUT

BEG. PROJ. TO STA. 22+00

SCALE: 1"= 50'

4/18/2014 1:27:34 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\Info0nly\004A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	4B
CONST.	2014	74945-3480-04	4B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

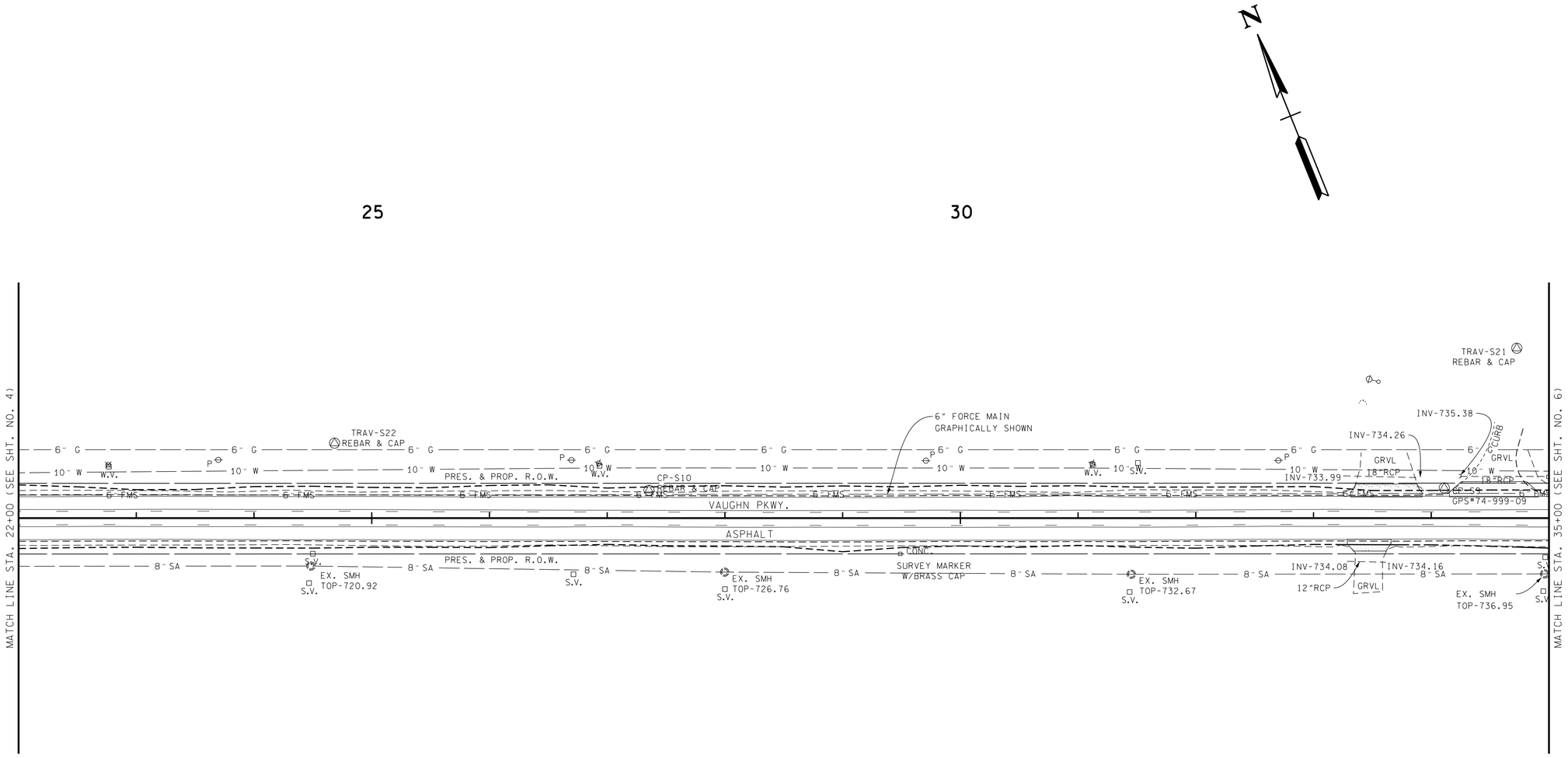
PROFILE

BEG. PROJ. TO STA. 22+00

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

4/18/2014 1:27:35 PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\004B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	5
CONST.	2014	74945-3480-04	5



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

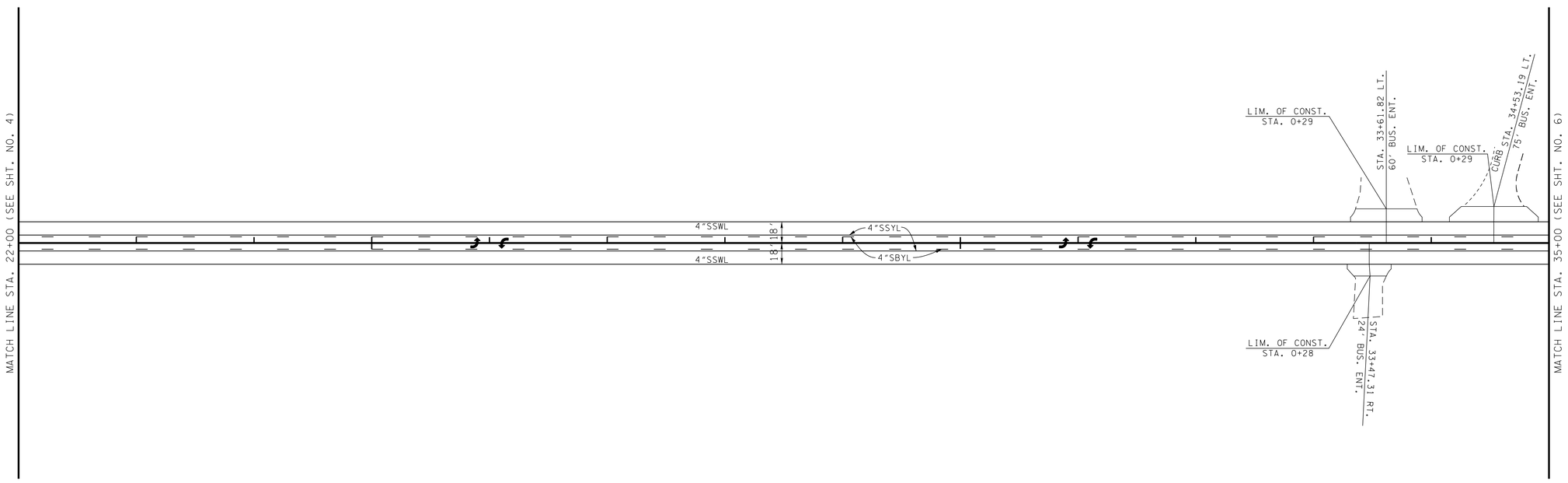
PRESENT LAYOUT

STA. 22+00 TO STA. 35+00

SCALE: 1"= 50'

4/18/2014 1:27:36 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\005.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	5A
CONST.	2014	74945-3480-04	5A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

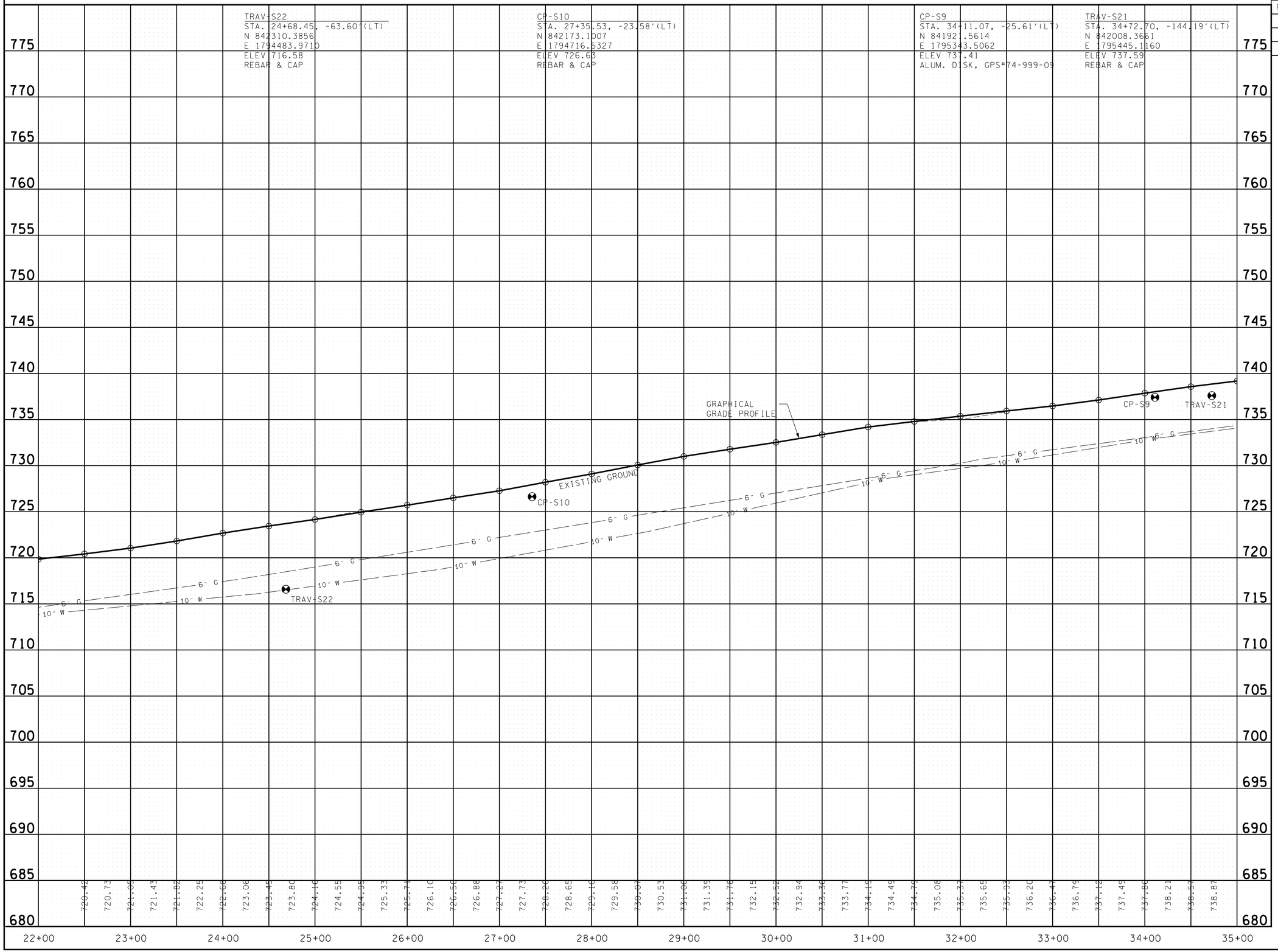
PROPOSED LAYOUT

STA. 22+00 TO STA. 35+00

SCALE: 1"= 50'

4/18/2014 1:27:37 PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\005A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	5B
CONST.	2014	74945-3480-04	5B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

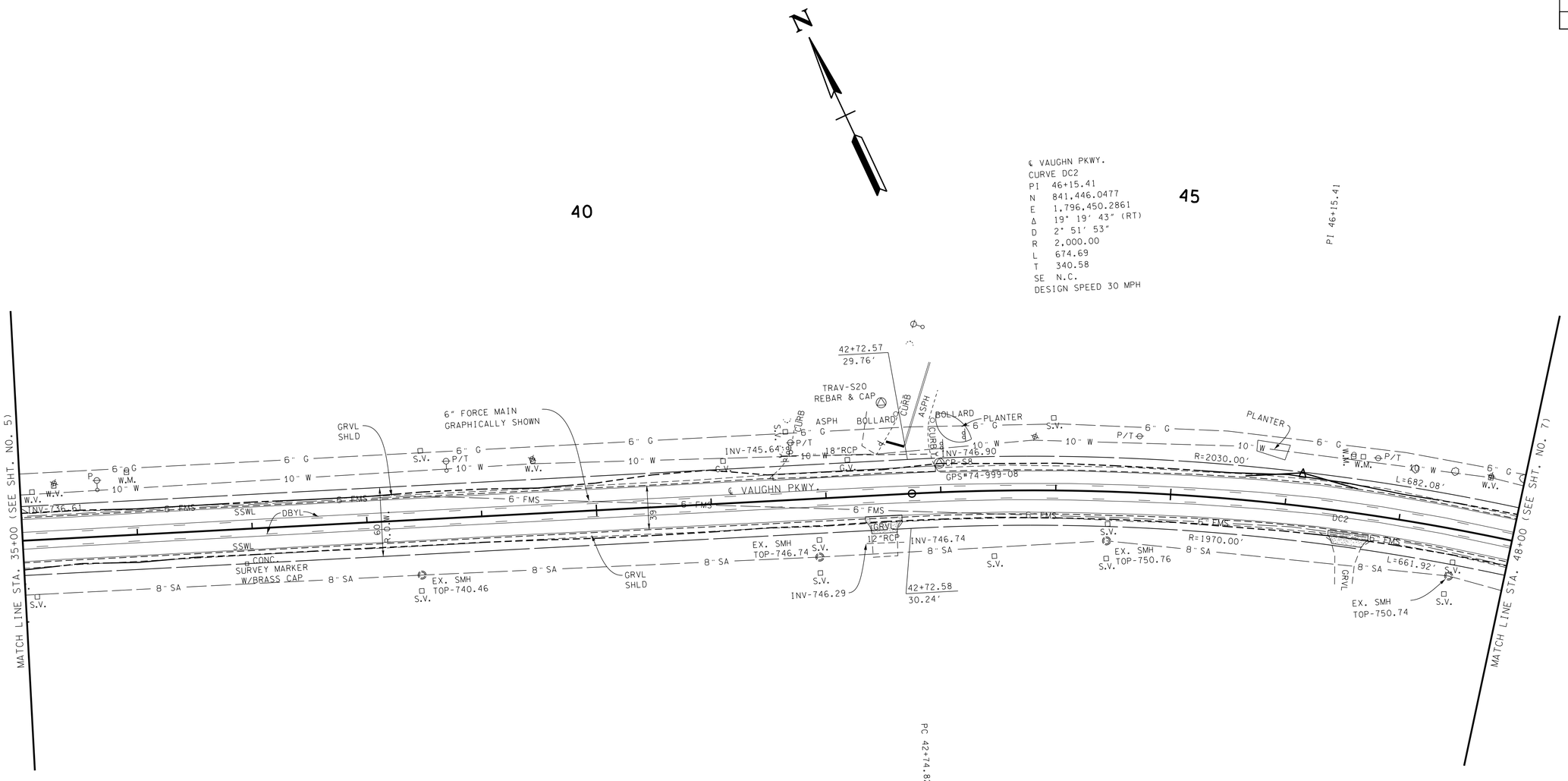
PROFILE

STA. 22+00 TO STA. 35+00

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

4/18/2014 1:27:37 PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\Info0nly\005B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	6
CONST.	2014	74945-3480-04	6



NOTE:
CONTRACTOR SHALL EXERCISE CAUTION
WHEN COMPACTING OVER THE FORCE MAIN.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

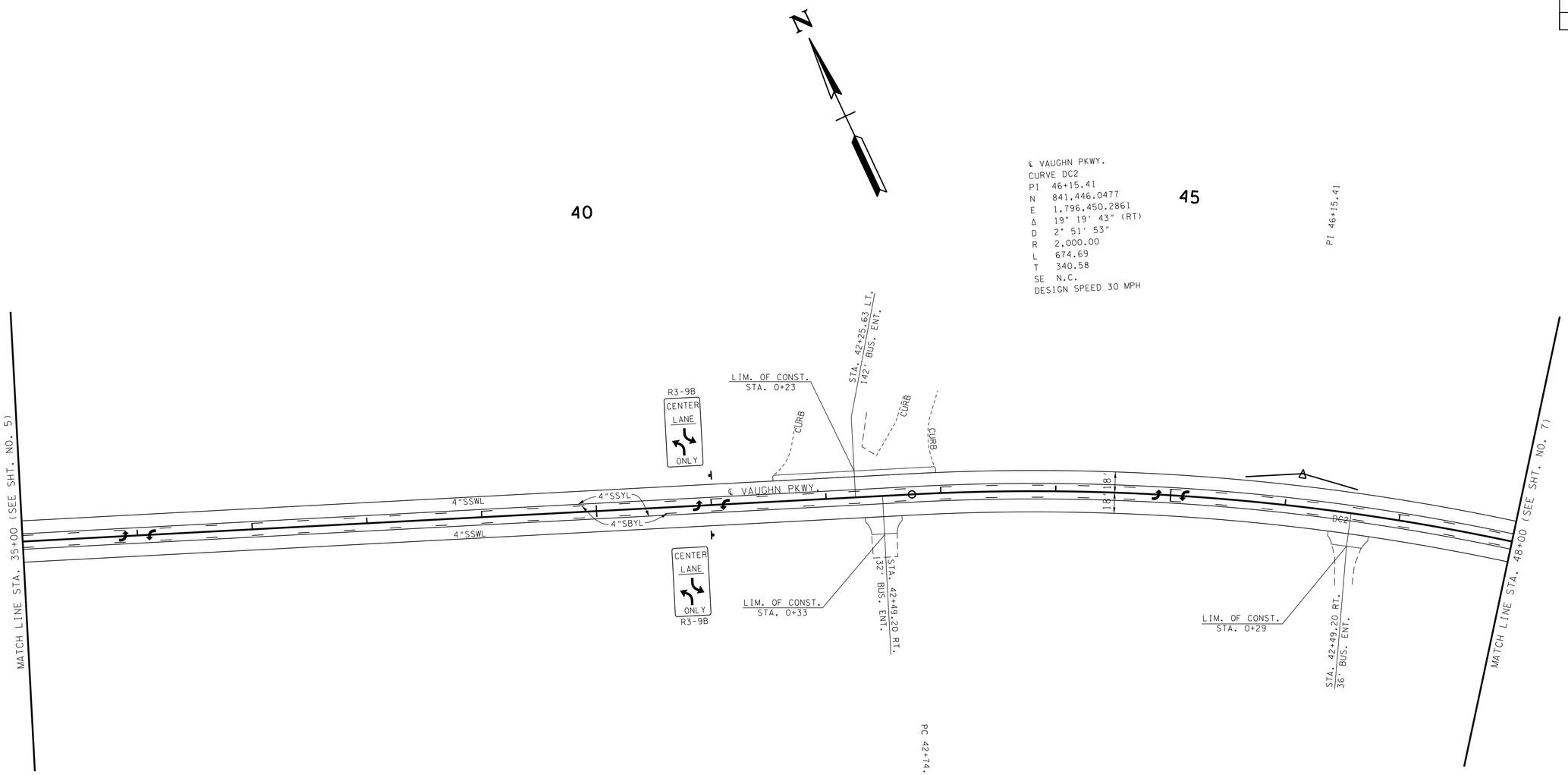
PRESENT LAYOUT

STA. 35+00 TO STA. 48+00

SCALE: 1"= 50'

4/18/2014 1:27:38 PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\006.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	6A
CONST.	2014	74945-3480-04	6A



NOTE:
CONTRACTOR SHALL EXERCISE CAUTION WHEN COMPACTING OVER THE FORCE MAIN.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

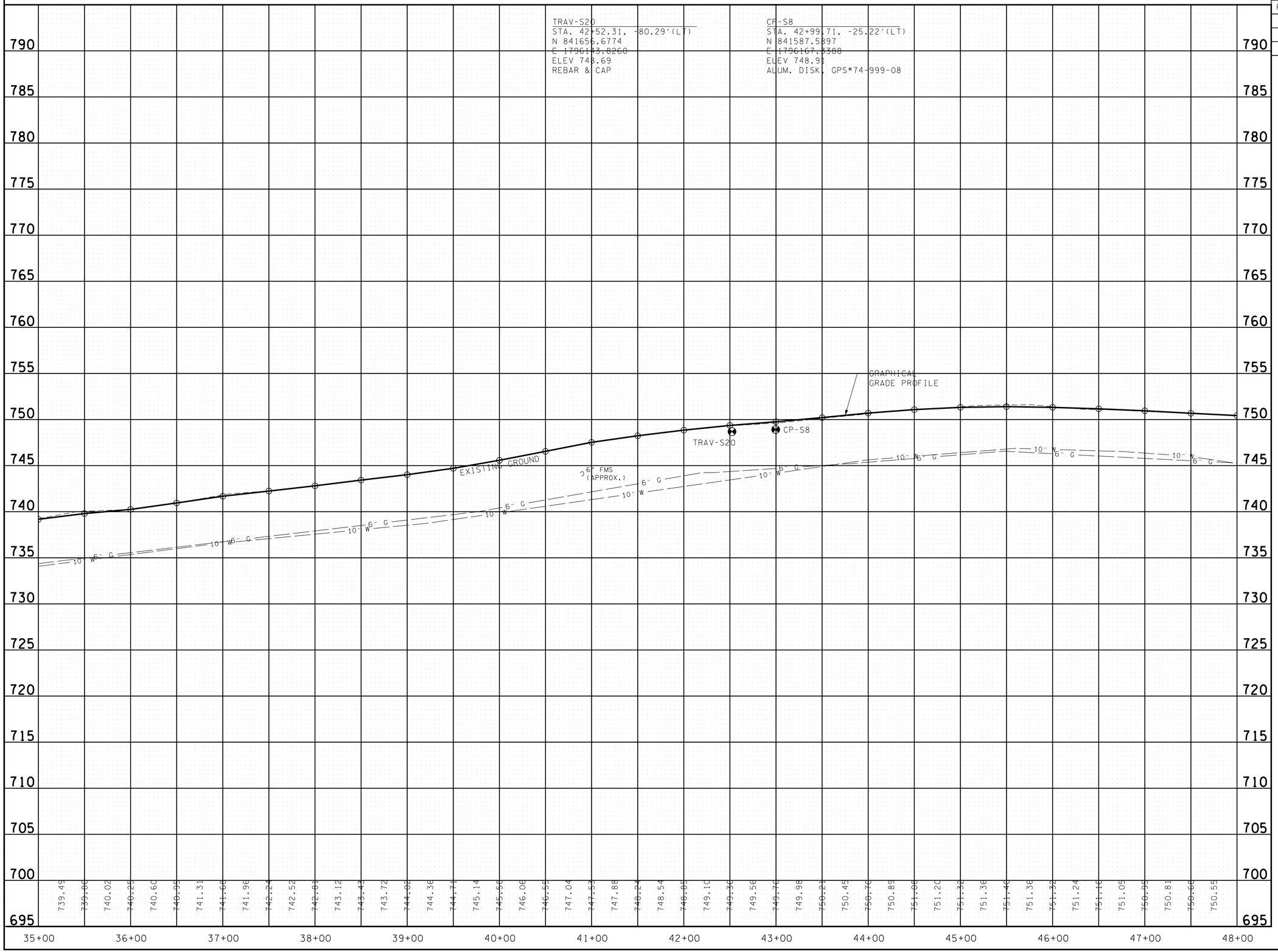
PROPOSED LAYOUT

STA. 35+00 TO STA. 48+00

SCALE: 1"= 50'

4/18/2014 1:27:39 PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\0006A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	6B
CONST.	2014	74945-3480-04	6B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

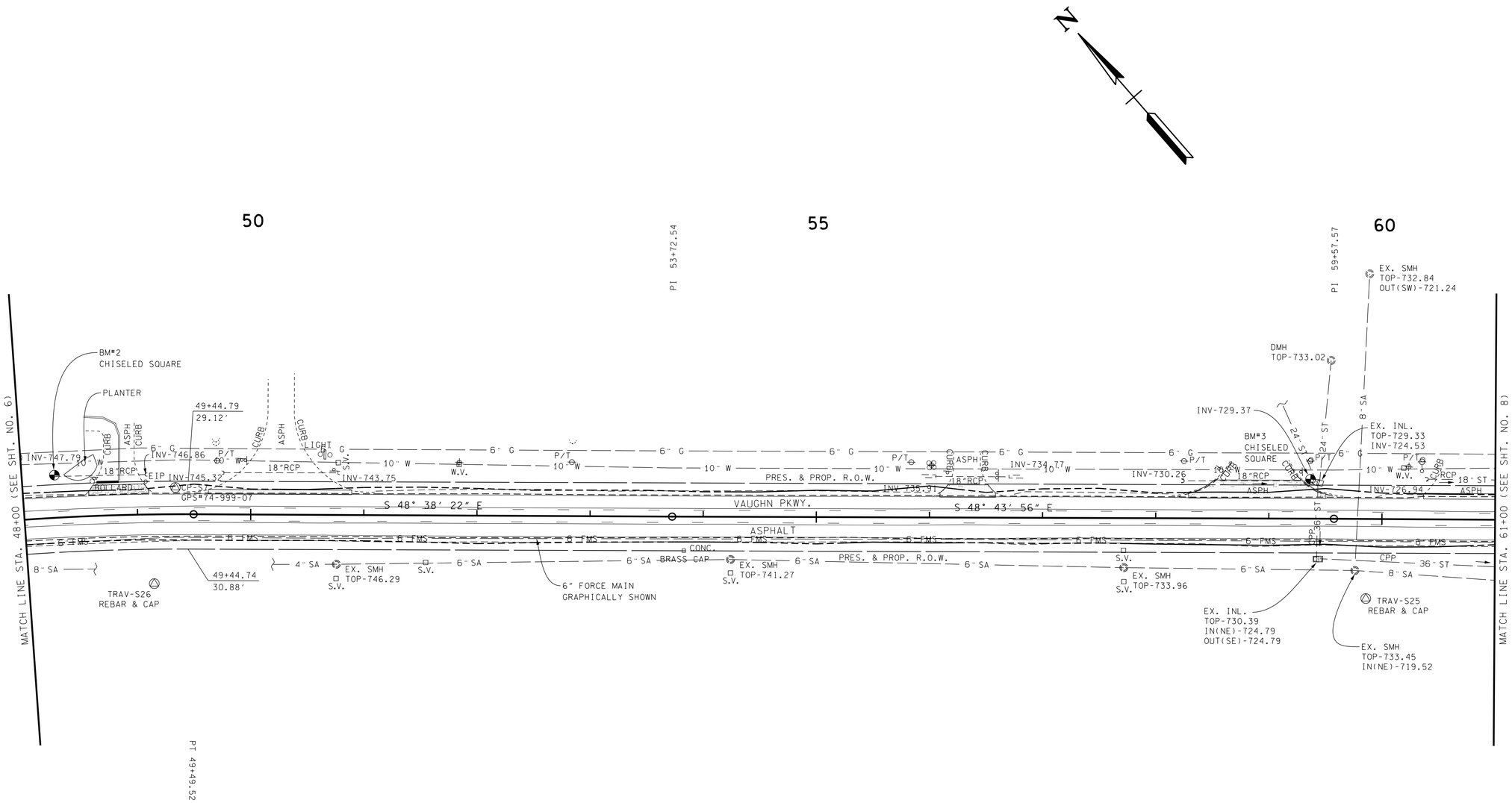
PROFILE

STA. 35+00 TO STA. 48+00

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

4/18/2014 1:27:40 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\006B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	7
CONST.	2014	74945-3480-04	7



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

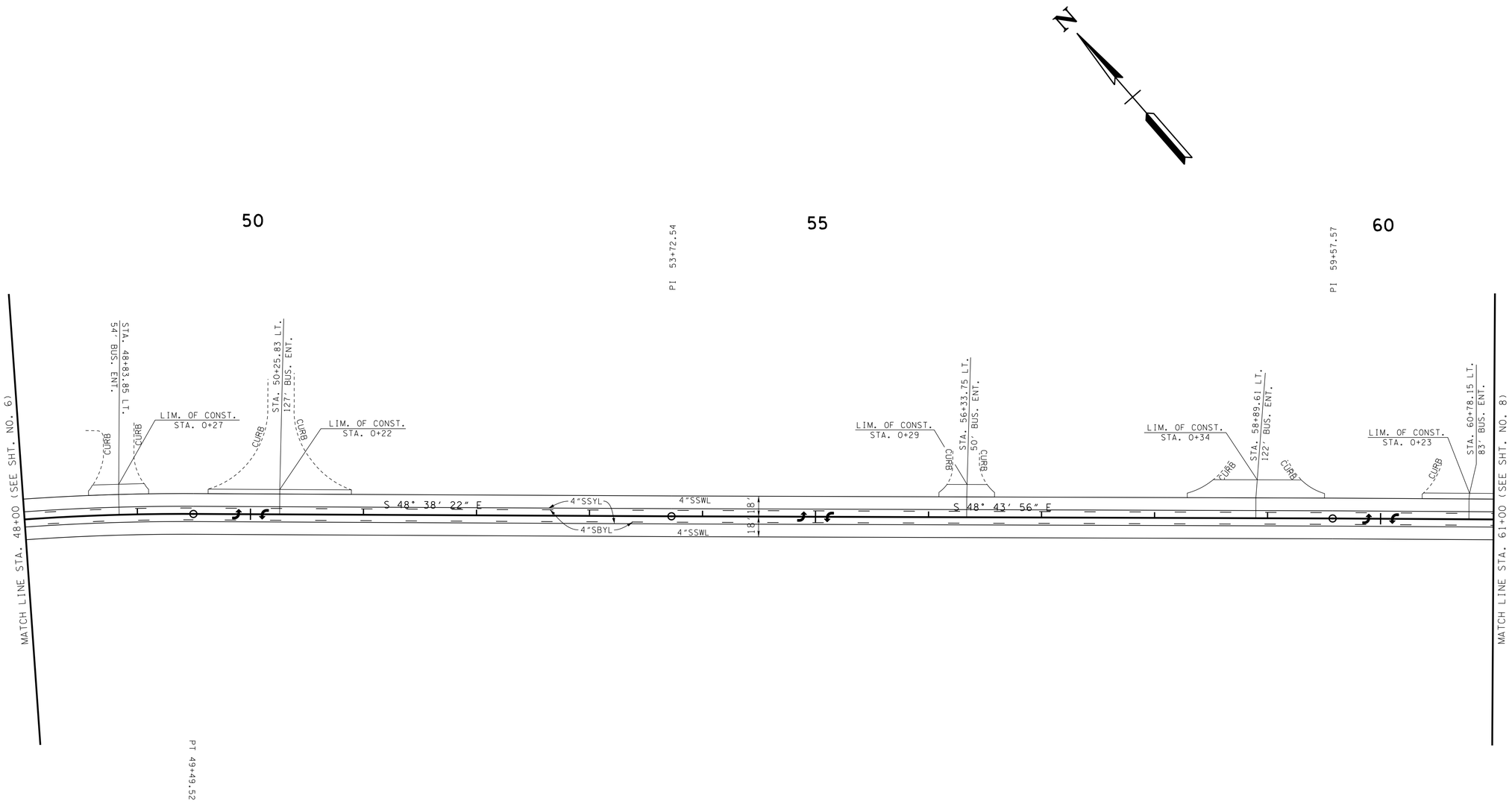
PRESENT LAYOUT

STA. 48+00 TO STA. 61+00

SCALE: 1"= 50'

4/8/2014 12:7:41PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\007.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	7A
CONST.	2014	74945-3480-04	7A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

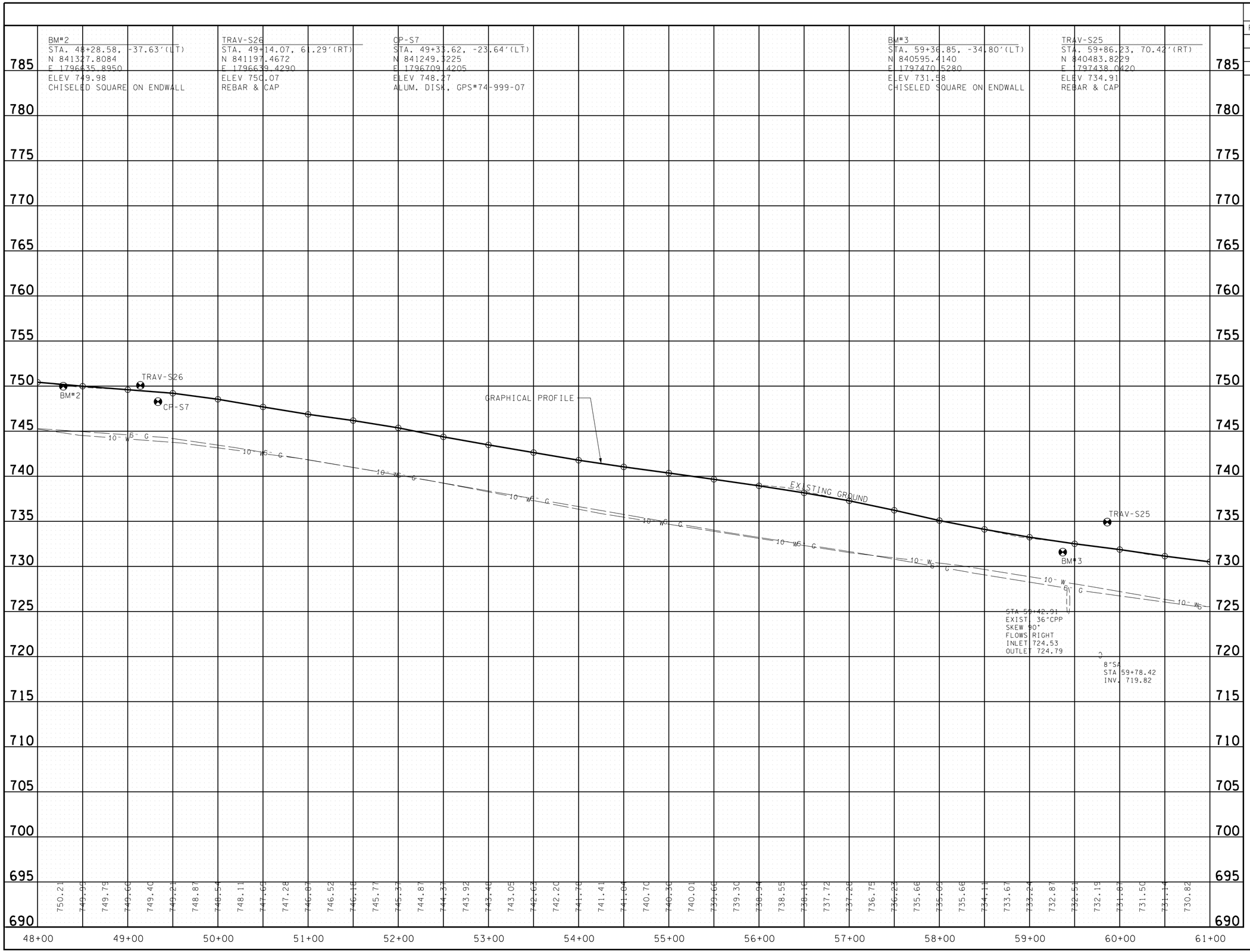
PROPOSED LAYOUT

STA. 48+00 TO STA. 61+00

SCALE: 1"= 50'

4/18/2014 1:27:42 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\Info0nly\007A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	7B
CONST.	2014	74945-3480-04	7B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

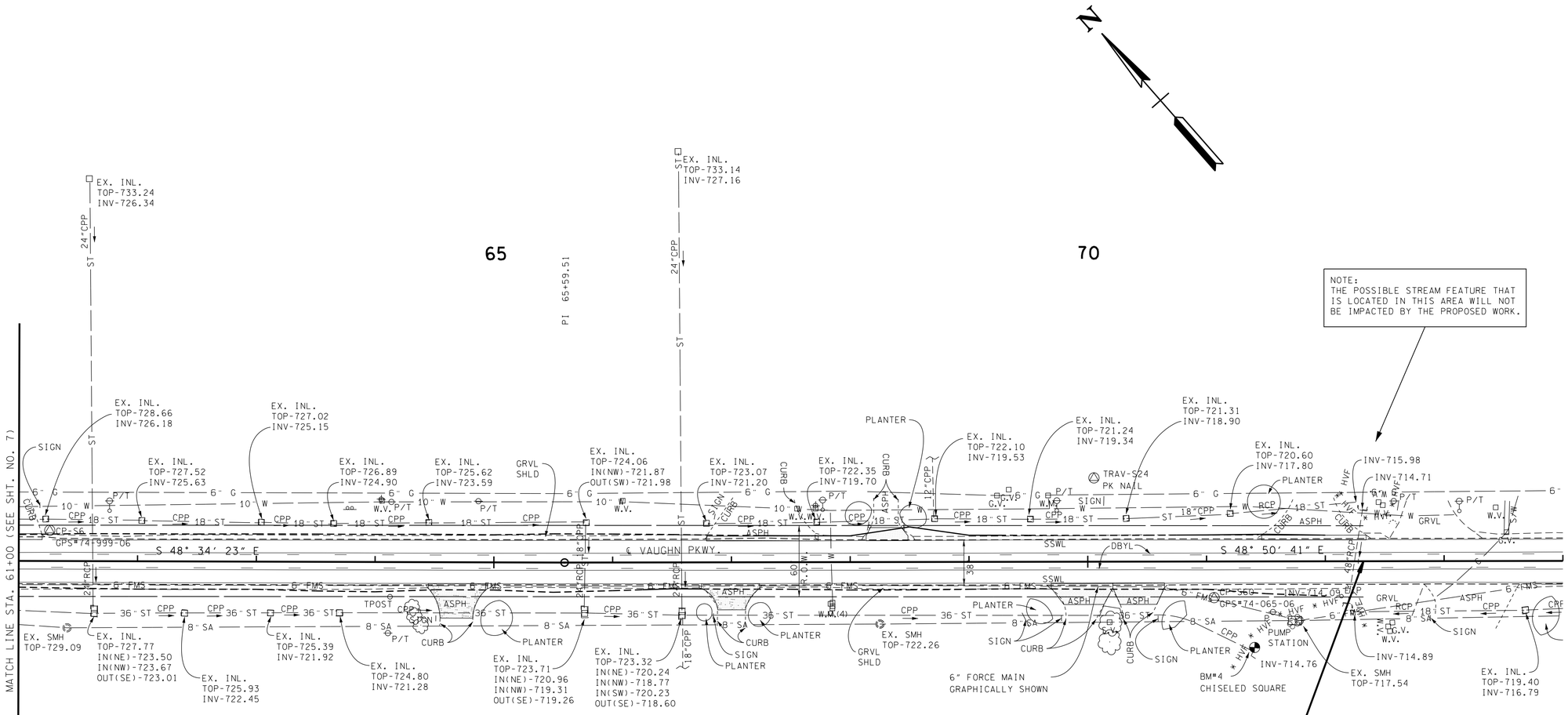
PROFILE

STA. 48+00 TO STA. 61+00

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

4/18/2014 1:27:42 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\Info0nly\007B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	8
CONST.	2014	74945-3480-04	8



END PROJ. NO. 74945-3480-04 (CONST.)
STA. 72+32.11 ℄ VAUGHN PKWY.
~~BEG. PROJ. NO. STP/HPP/NH-I-65-3(113)~~
~~74003-3164-44 (CONST.)~~
~~STA. 420+30.00~~

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

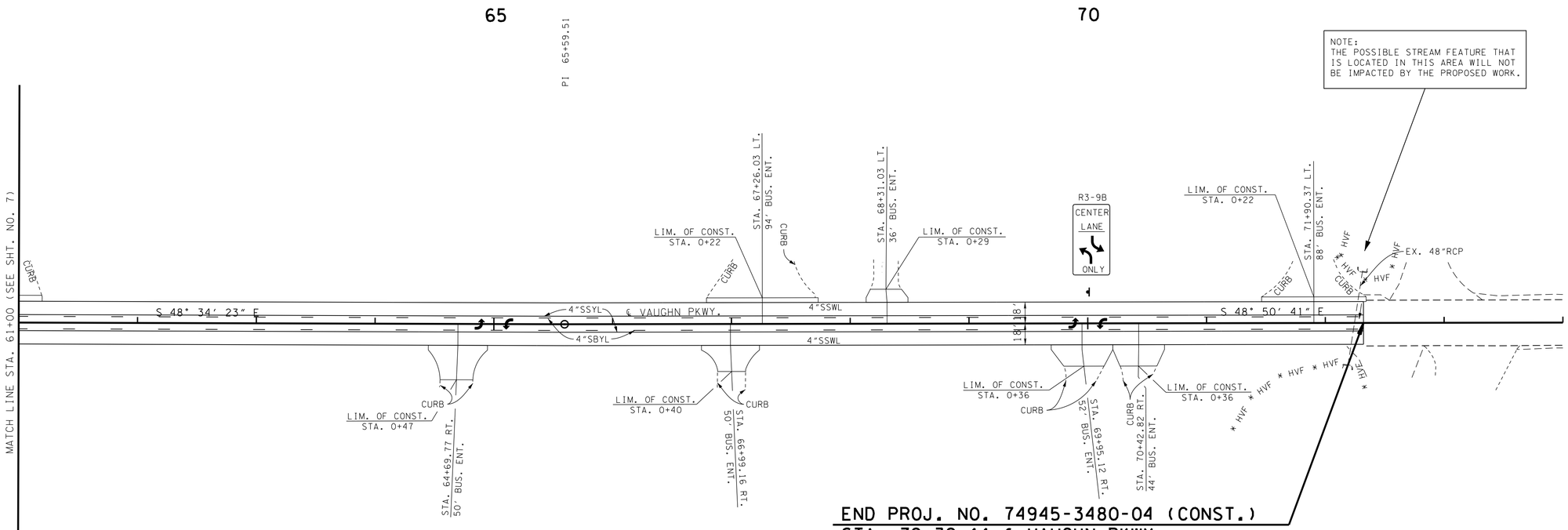
PRESENT LAYOUT

STA. 61+00 TO END PROJ.

SCALE: 1"= 50'

4/8/2014 12:7:43 PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\008.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	8A
CONST.	2014	74945-3480-04	8A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

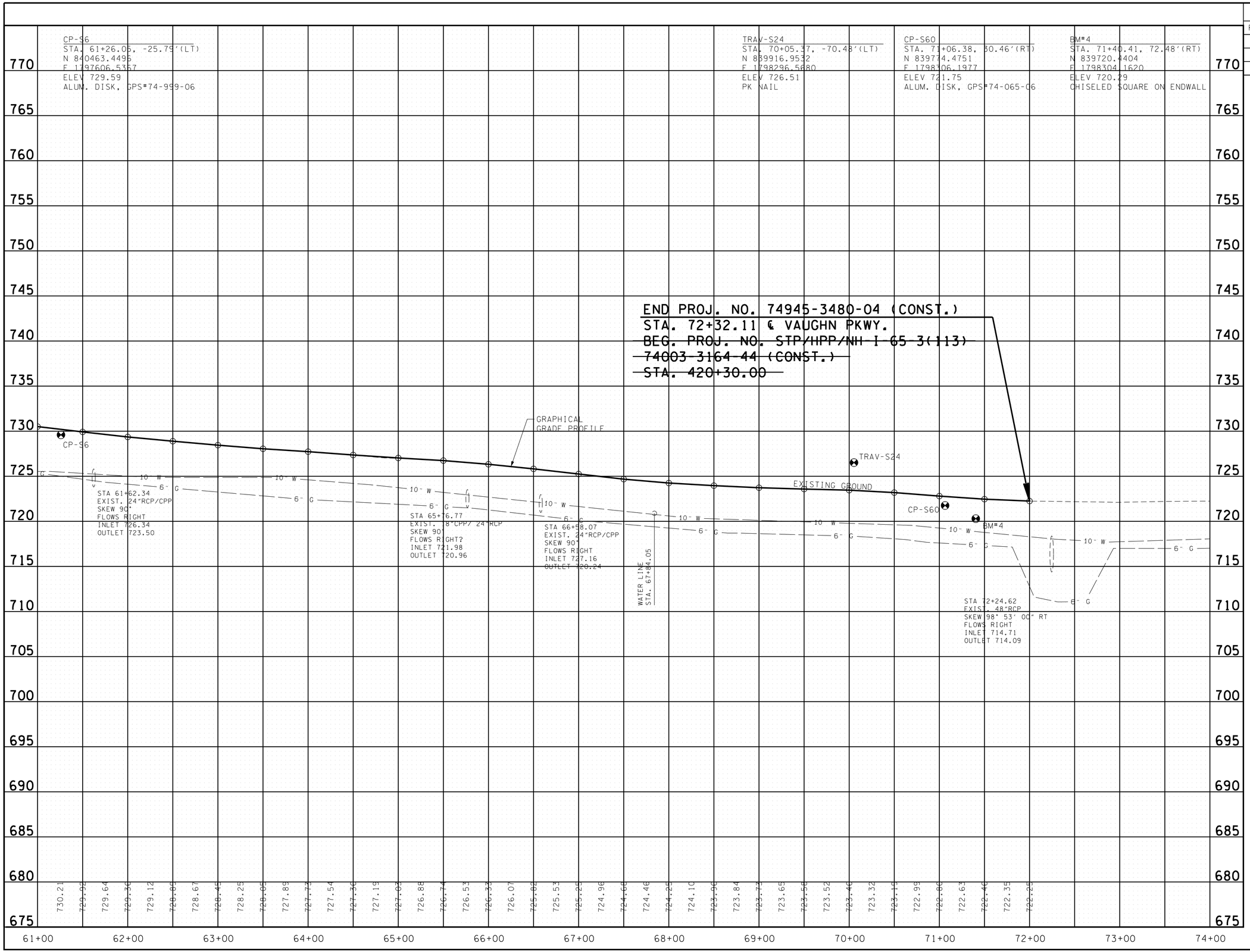
PROPOSED LAYOUT

STA. 61+00 TO END PROJ.

SCALE: 1"= 50'

4/18/2014 1:27:44 PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\008A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	8B
CONST.	2014	74945-3480-04	8B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 61+00 TO END PROJ.

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

4/18/2014 1:27:45 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\008B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	9
CONST.	2014	74945-3480-04	9

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

NPDES

(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 EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP.

(2) THE 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 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 EPSC MEASURES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE 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 EPSC MEASURES 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 EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

(4) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 14 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 14 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-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

(5) STEEP SLOPES (A NATURAL OR CREATED SLOPE OF 35% GRADE (2.8H:1V) OR GREATER REGARDLESS OF HEIGHT) SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.

(6) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES; TDOT PROJECTS ARE COVERED UNDER THE "WASTE AND BORROW" MANUAL PER THE SSWMP.

(7) 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.

UTILITY RELOCATION

(8) RAIN WATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND MAINTAINED.

(9) 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

(10) 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.

(11) 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.

(12) 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 POLLUTIONS PREVENTION PLANS (SWPPP). THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT WORK.

(13) 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.

(14) FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, 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.

(15) THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS (AS APPROVED BY THE TDOT PROJECT ENGINEER).

(16) 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.

LITTER, DEBRIS, WASTE, PETROLEUM

(22) THE CONTRACTOR SHALL MAINTAIN A COMPLETE AND COMPREHENSIVE EROSION PREVENTION AND SEDIMENT CONTROL PLAN TO PREVENT ROADWAY AND/OR CONSTRUCTION SEDIMENT OR DEBRIS AND ANY PETROLEUM BASED PRODUCTS OR CHLORINATED SOLVENTS, PAINTS OR COATINGS ETC. FROM FALLING ONTO THE RAILROAD'S RIGHTS-OF-WAY AND/OR FROM ENTERING THE DRAINAGE DITCHES OR DRAINAGE STRUCTURES OF THE RAILROAD, AND ANY SEDIMENT OR DEBRIS OR PETROLEUM BASED PRODUCTS OR CHLORINATED SOLVENTS, ETC. THAT DO ENTER SUCH DRAINAGE AREAS OF THE RAILROAD'S RIGHTS-OF-WAY ARE TO BE REMOVED IN ACCORDANCE WITH RULES SET FORTH BY _____ AND AT THE CONTRACTOR'S EXPENSE.

POLYACRYLAMIDE

(23) ENSURE POLYACRYLAMIDE (PAM) EMULSIONS AND POWDERS ARE OF THE ANIONIC TYPE AND MEET THE FOLLOWING REQUIREMENTS:

(24) MEETS THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR GREATER THAN 0.005% ACRYLAMIDE MONOMER.

(25) HAS A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLE.

(26) MIXTURE IS NON-COMBUSTIBLE.

(27) CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.

(28) PAM SHALL BE MIXED AND APPLIED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET (MSDS) REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USES CONFORMING TO ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS.

(29) ALL VENDERS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT WHICH VERIFIES THAT THE PAM, PAM MIX, PAM BLEND EXHIBITS ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPA REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED. CATIONIC FORMS OF PAM ARE NOT ALLOWED FOR UNDER THIS GUIDELINE DUE TO THEIR HIGH LEVELS OF TOXICITY TO AQUATIC ORGANISMS. PAM EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS DUR TO SURFACTANT TOXICITY. CONTRACTOR MUST SEEK THE APPROVAL OF THE EPSC DESIGN ENGINEER AND TDOT IF CHITOSAN IS PROPOSED FOR USE ON THIS PROJECT.

(30) ALL VENDORS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL SUPPLY WRITTEN "SITE SPECIFIC" TESTING RESULTS $DEMONSTRATING THAT A PERFORMANCE OF 95% OR GREATER REDUCTION OF NTU OR TSS FROM STORMWATER DISCHARGES.

(31) EMULSION BATCHES SHALL BE MIXED FOLLOWING RECOMMENDATIONS OF A TESTING LABORATORY THAT DETERMINES THE PROPER PRODUCT AND RATE TO MEET SITE REQUIREMENTS. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS.

(32) PAM POWDER MAY BE APPLIED BY A HAND SPREADER OR A MECHANICAL SPREADER. MIXING PAM POWDER WITH DRY DILIGA SILICA SAND WILL AID IN SPREADING.

(33) PREMIXING OF PAM POWDER INTO FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS IS ALLOWED WHEN SPECIFIED IN THE DESIGN PLAN. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.

(34) PAM LOGS OR BLOCKS SHALL BE APPLIED FOLLOWING SITE TESTING RESULTS TO ENSURE PROPER PLACEMENT AND PERFORMANCE AND SHALL MEET OR EXCEED STATE AND FEDERAL WATER QUALITY REQUIREMENTS.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
* SFB * SFB * SFB * SFB *	SEDIMENT FILTER BAG	EC-STR-2
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

EPSC QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD AND DRAINAGE EXCAVATION (UNCL.)	C.Y.	29
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	174
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	12,500
209-09.04	SEDIMENT FILTER BAG (15' X 10')	EACH	4
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	12
740-11.01	TEMPORARY SEDIMENT TUBE 8IN (EROSION CONTROL)	L.F.	80
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	200
740-10.03	GEOTEXTILE (TYPE III) EROSION CONTROL	S.Y.	492

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

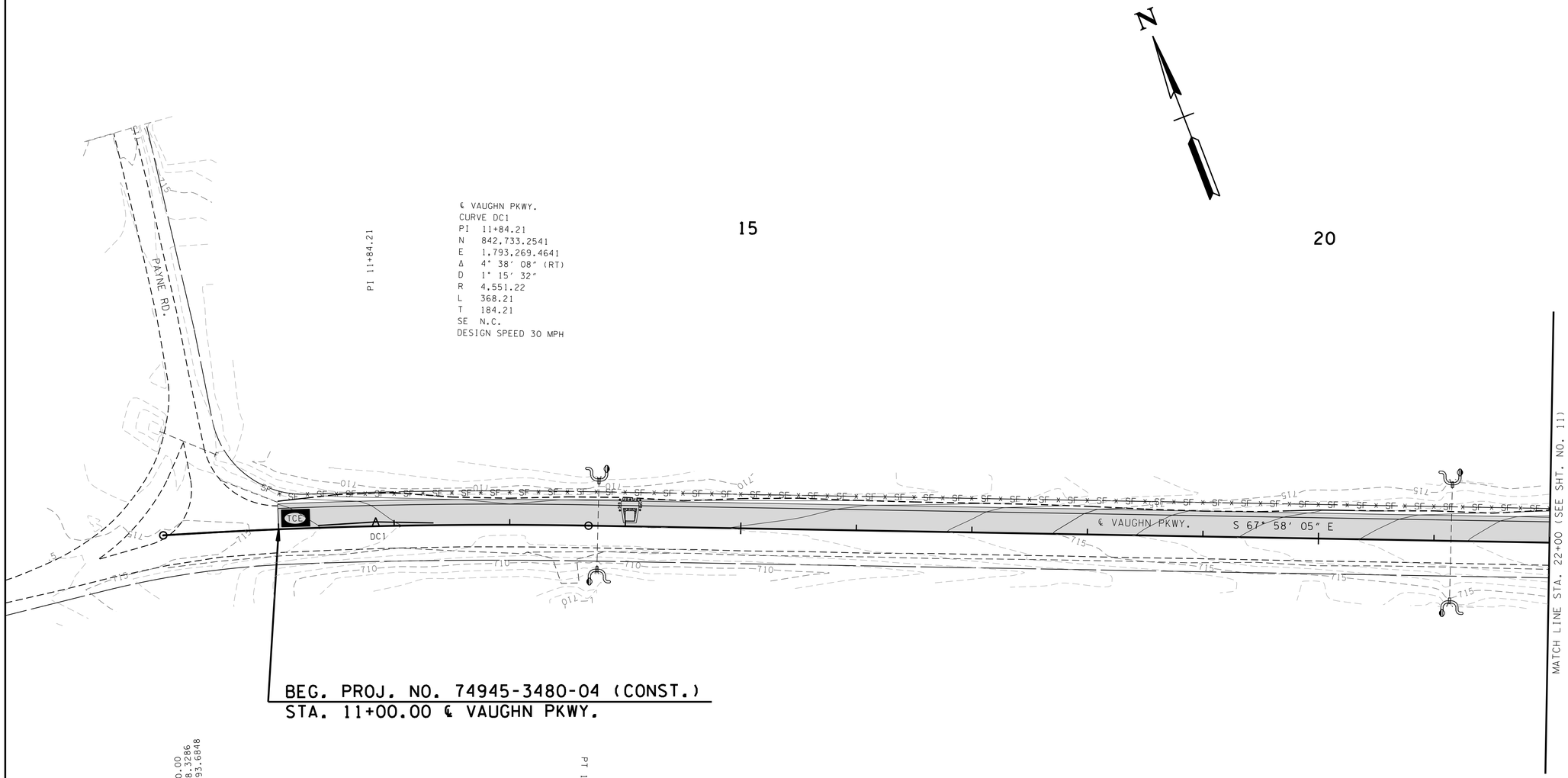
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

BEG. PROJ. TO STA. 22+00

SCALE: 1"= 50'

4/8/2014 12:7:46 PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\Info0nly\009.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	10
CONST.	2014	74945-3480-04	10



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

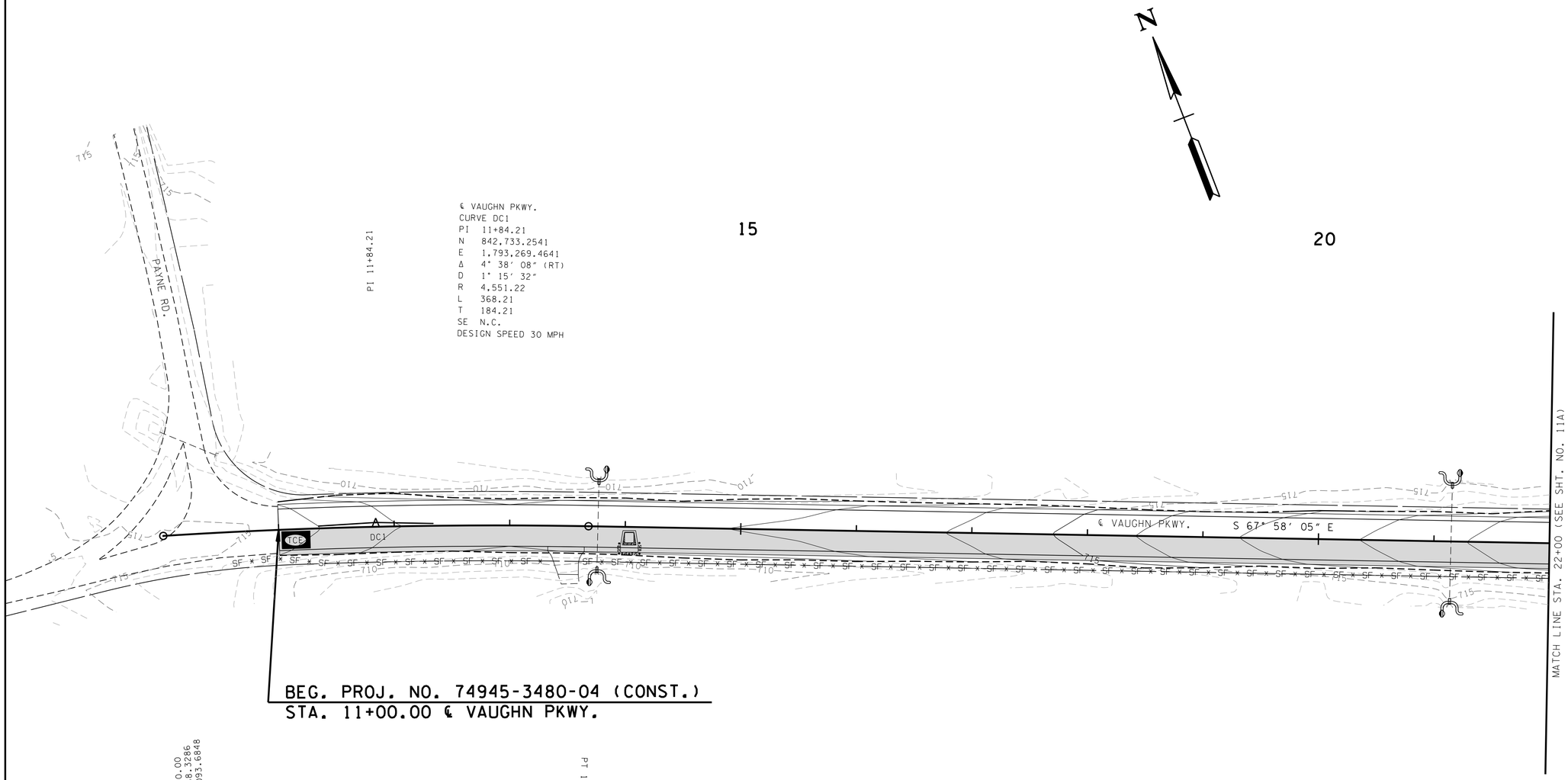
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

BEG. PROJ. TO STA. 22+00

SCALE: 1"= 50'

4/18/2014 1:29:36 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\010.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	10A
CONST.	2014	74945-3480-04	10A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

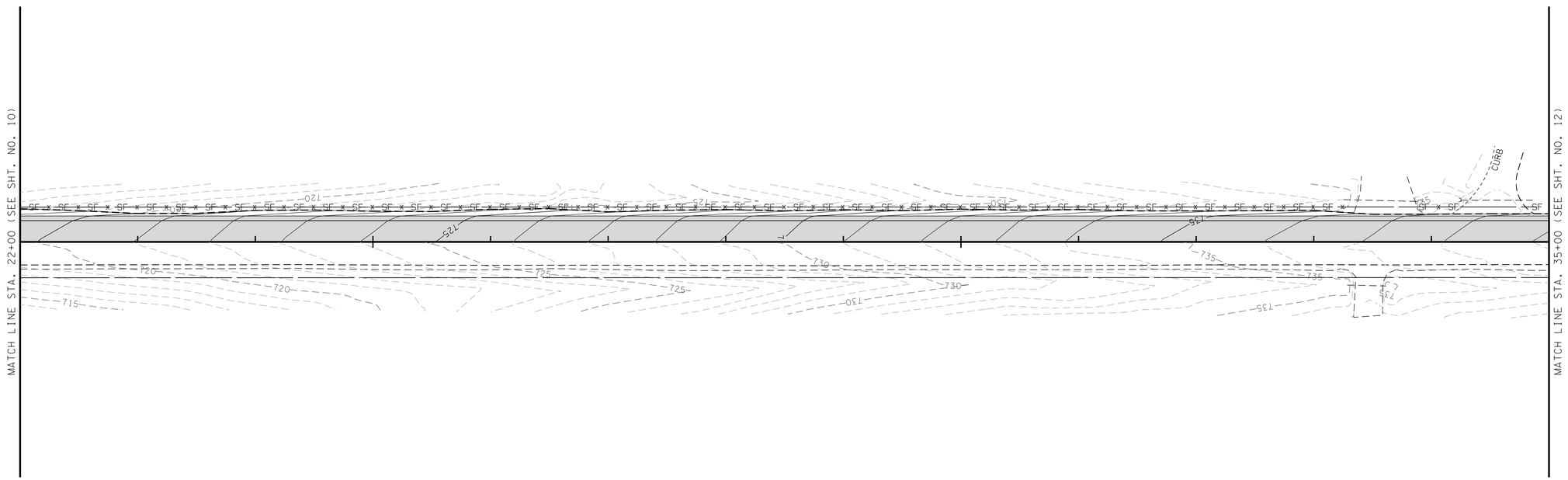
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

BEG. PROJ. TO STA. 22+00

SCALE: 1" = 50'

4/18/2014 1:29:37 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\0I0A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	11
CONST.	2014	74945-3480-04	11



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

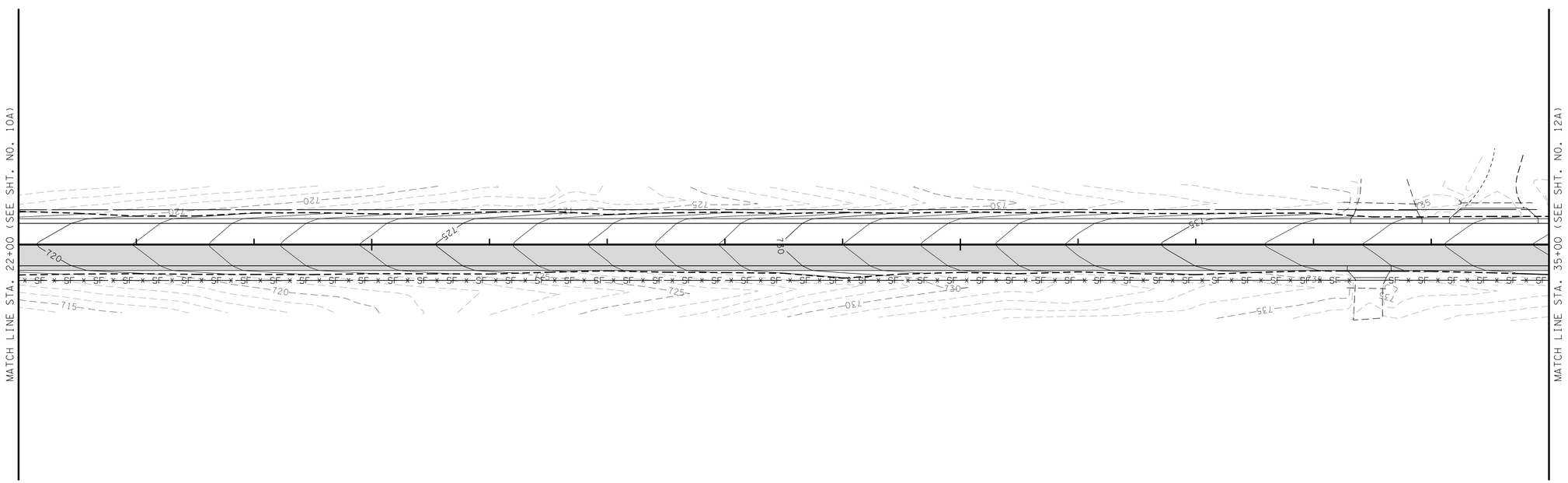
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 22+00 TO STA. 35+00

SCALE: 1"= 50'

4/18/2014 1:29:38 PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\01i.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	11A
CONST.	2014	74945-3480-04	11A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

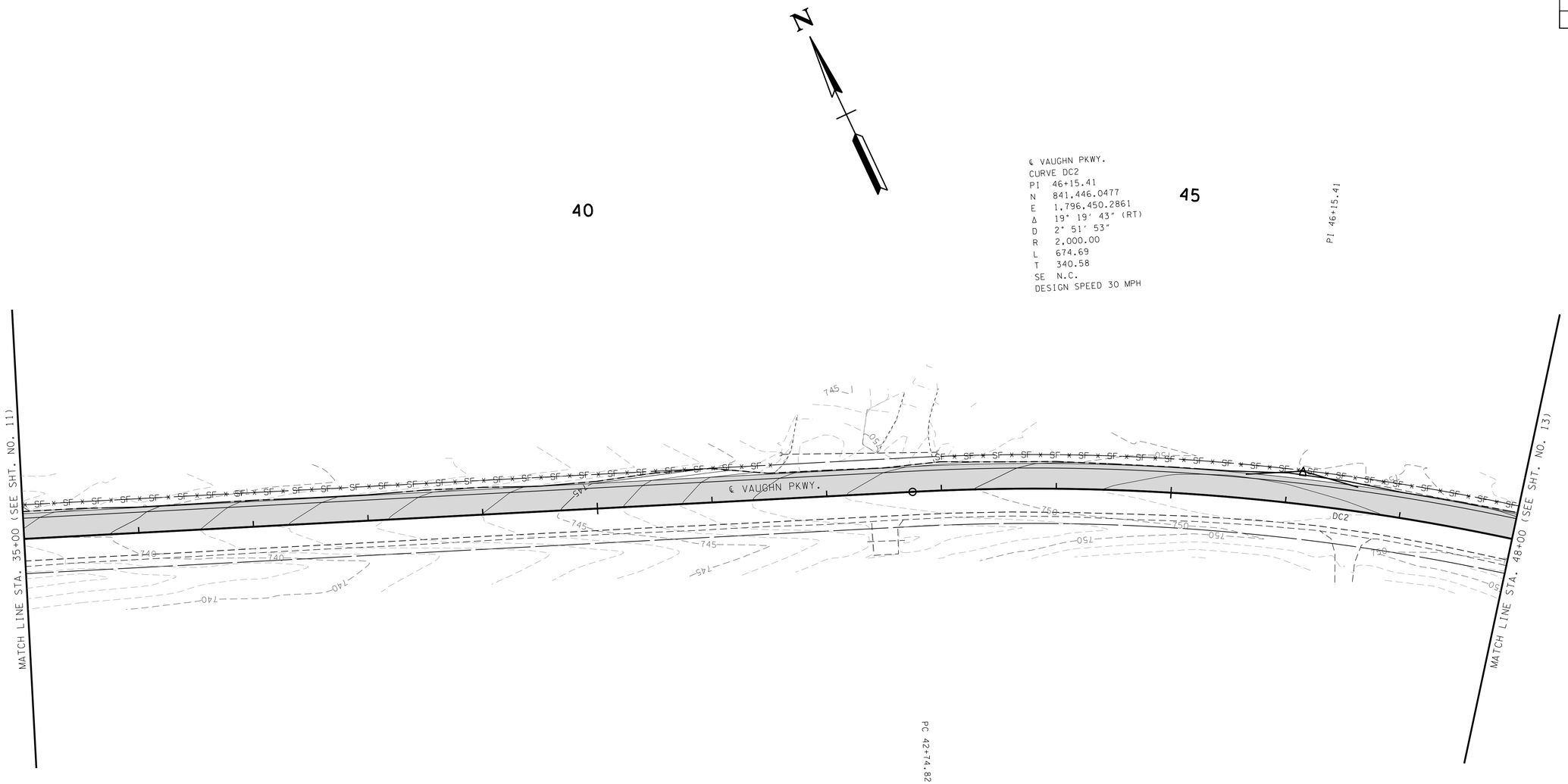
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 22+00 TO STA. 35+00

SCALE: 1"= 50'

4/18/2014 1:29:39 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\Info0nly\01A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	12
CONST.	2014	74945-3480-04	12



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

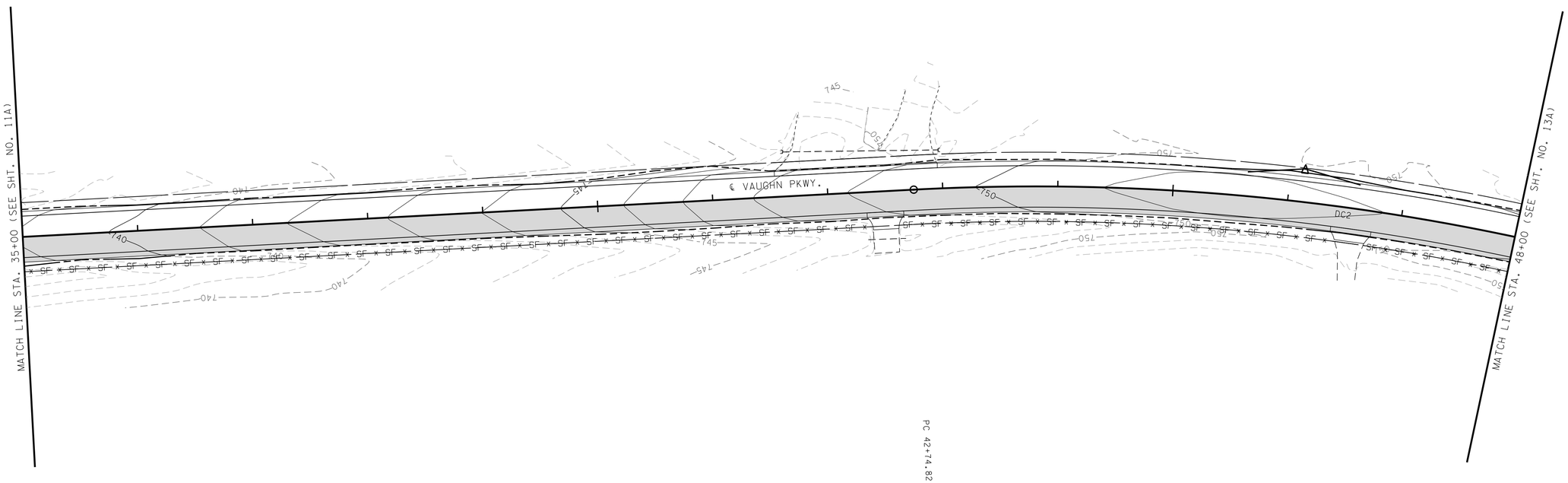
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 36+00 TO STA. 48+00

SCALE: 1"= 50'

4/18/2014 4:29:39 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\012.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	12A
CONST.	2014	74945-3480-04	12A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

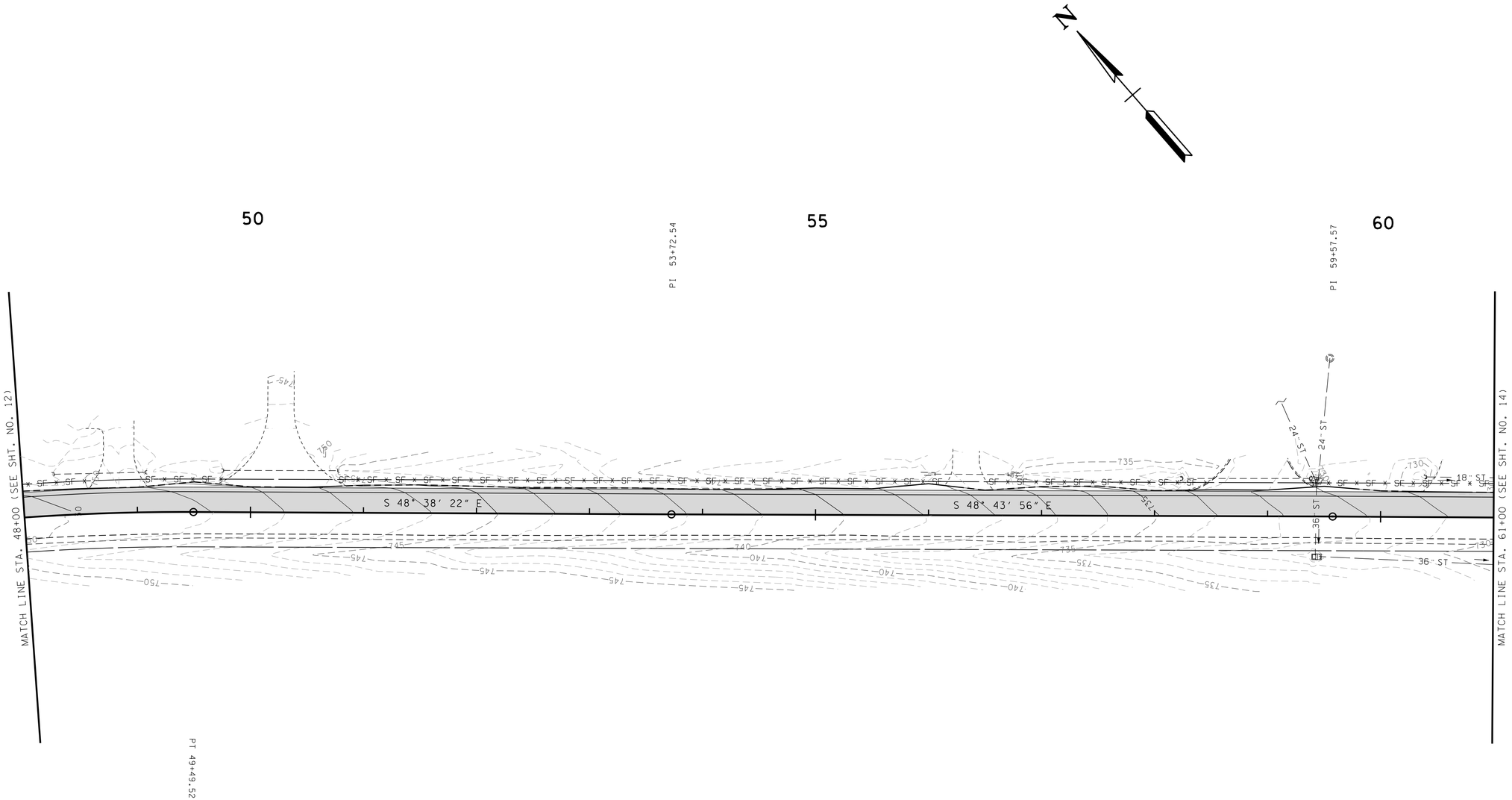
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 36+00 TO STA. 48+00

SCALE: 1"= 50'

4/18/2014 1:29:40 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\012A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	13
CONST.	2014	74945-3480-04	13



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

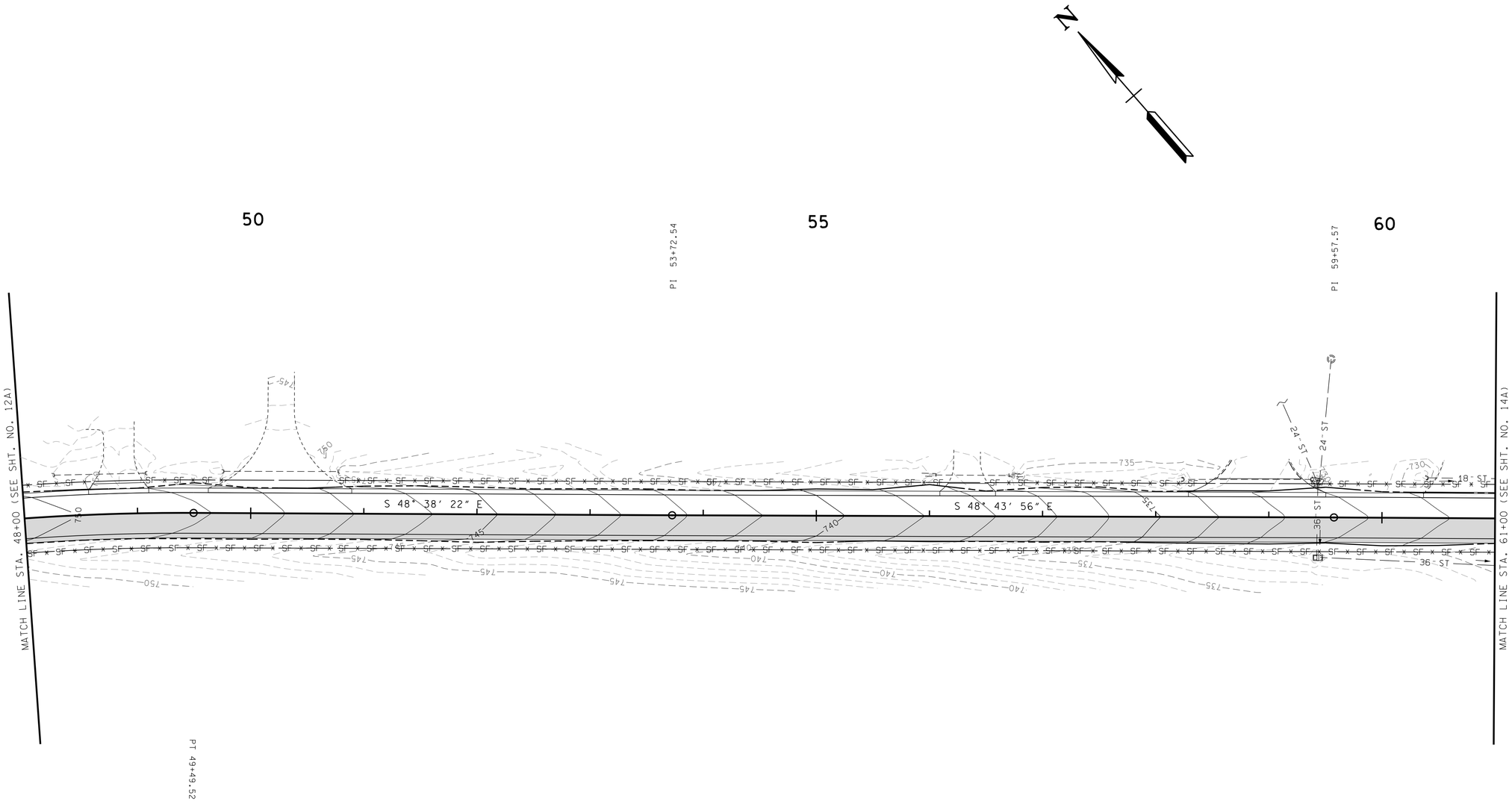
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 48+00 TO STA. 61+00

SCALE: 1"= 50'

4/18/2014 1:29:41 PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\013.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	13A
CONST.	2014	74945-3480-04	13A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

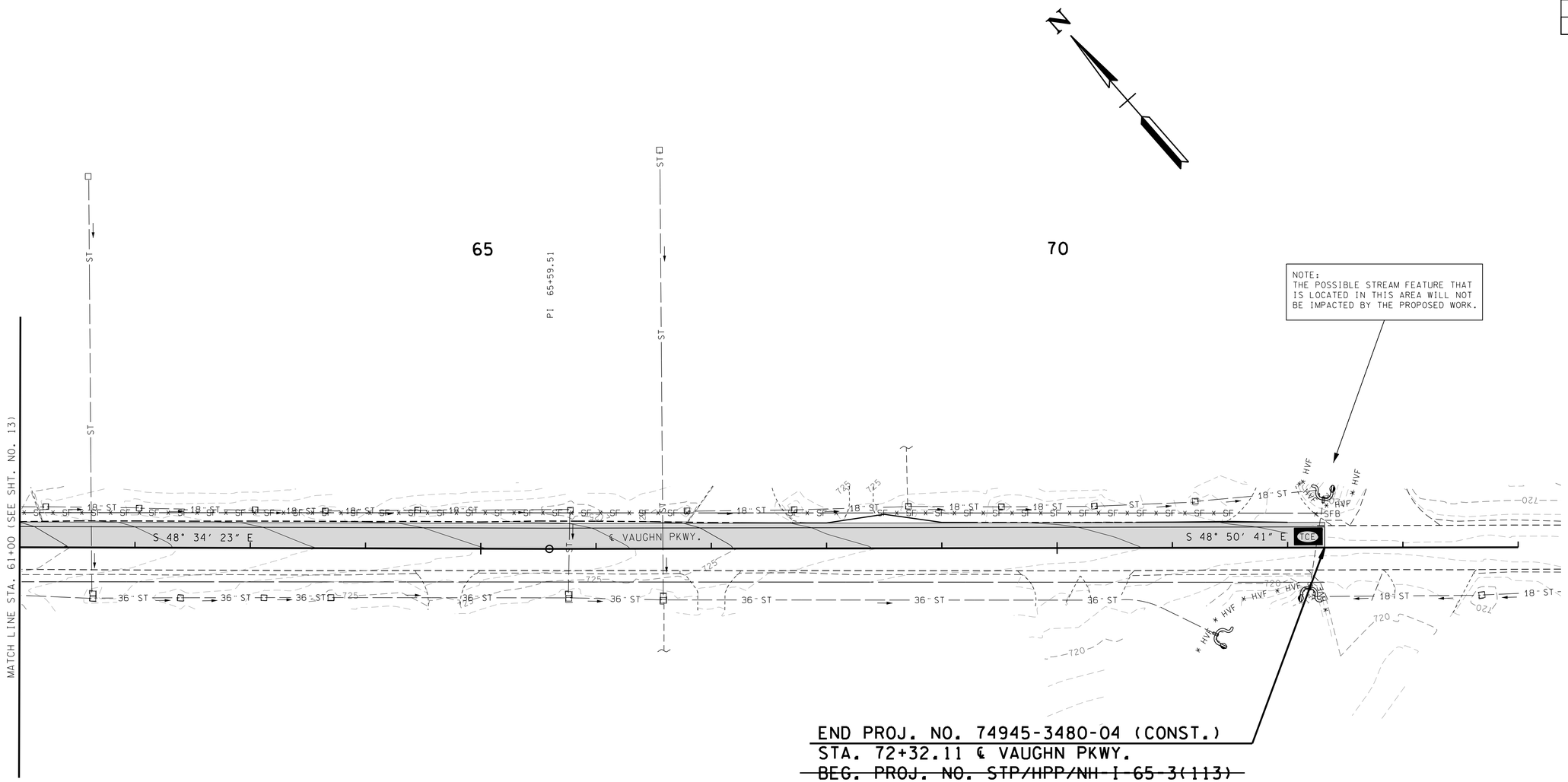
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 48+00 TO STA. 61+00

SCALE: 1"= 50'

4/18/2014 1:29:42 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\013A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	14
CONST.	2014	74945-3480-04	14



END PROJ. NO. 74945-3480-04 (CONST.)
STA. 72+32.11 ℄ VAUGHN PKWY.
~~BEG. PROJ. NO. STP/HPP/NH-I-65-3(113)~~
~~74003-3164-44 (CONST.)~~
~~STA. 420+30.00~~

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

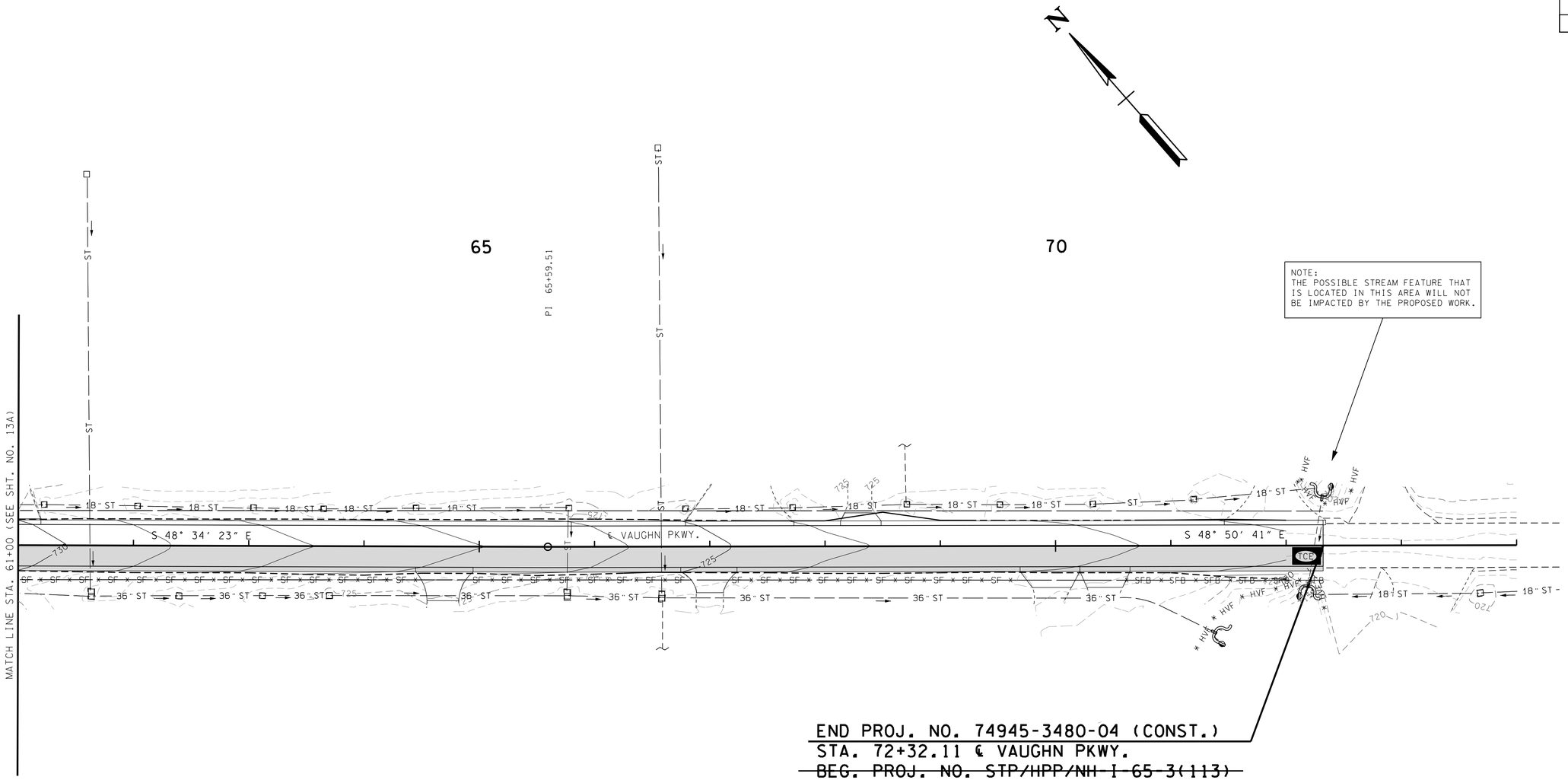
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 61+00 TO END PROJ.

SCALE: 1"= 50′

4/18/2014 1:29:42 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\014.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	14A
CONST.	2014	74945-3480-04	14A



END PROJ. NO. 74945-3480-04 (CONST.)
STA. 72+32.11 ℄ VAUGHN PKWY.
~~BEG. PROJ. NO. STP/HPP/NH-I-65-3(113)~~
~~74003-3164-44 (CONST.)~~
~~STA. 420+30.00~~

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 61+00 TO END PROJ.
SCALE: 1"= 50'

4/18/2014 1:29:43 PM
T:\3023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\014A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	15
CONST.	2014	74945-3480-04	15

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:

1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES:

   a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES. TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3.5 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE ENGINEER. SEE PARAGRAPH a REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

3. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:

   a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

   b. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.

   c. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO SIX INCHES OR LESS.

   d. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

   FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

4. FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

   SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

IN THIS SITUATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:

1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

   WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

   THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST TRAFFIC LANE:

SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

1. WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET. WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

TRAFFIC CONTROL PHASING NOTES

1) ACCESS TO ALL EXISTING BUSINESSES MUST BE MAINTAINED AT ALL TIMES. COST SHALL BE INCLUDED IN ITEM 712-01, TRAFFIC CONTROL.
2) CONTRACTOR SHALL DEVELOP SUB-PHASES FOR APPROVAL BY THE ENGINEER TO EFFICIENTLY AND SAFELY MAINTAIN MOVEMENT OF TRAFFIC IN AND OUT OF THE EXISTING BUSINESSES.

PHASE 1

1) TEMPORARILY WIDEN AND STABILIZE 7' OF RIGHT SHOULDER WITH 12" OF 303-01 MINERAL AGGREGATE AND 1.5" OF E. MIX.

2) MAINTAIN TRAFFIC ON TWO 11' LANES ON RIGHT SIDE.

PHASE 2

1) TEMPORARILY WIDEN AND STABILIZE 7' OF LEFT SHOULDER WITH 12" OF 303-01 MINERAL AGGREGATE AND 1.5" OF E. MIX.

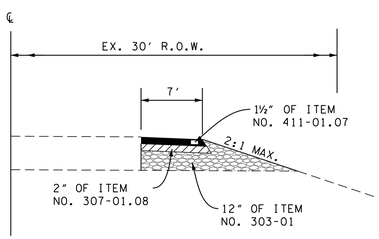
2) DIVERT TRAFFIC ONTO TWO 11' LANES ON LEFT SIDE AND CONSTRUCT THE REMAINDER OF PAVEMENT.

PHASE 3

1) REMOVE TEMPORARY WIDENING AND RESTORE SHOULDERS TO THE PERMANENT DESIGN STANDARDS.

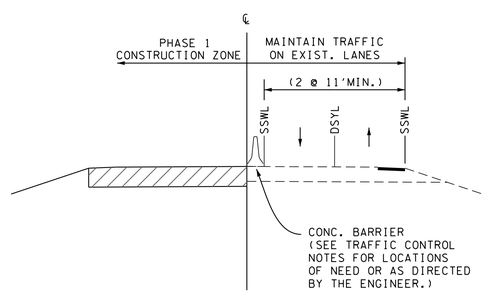
TRAFFIC CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTALS
705-04.50	PORTABLE BARRIER RAIL DELINEATOR	EA.	315
705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EA.	14
712-01	TRAFFIC CONTROL	L.S.	1
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	6100
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EA.	40
712-05.03	WARNING LIGHTS (TYPE C)	EA.	10
712-06	SIGNS (CONSTRUCTION)	S.F.	97
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	40
712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	400
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	10

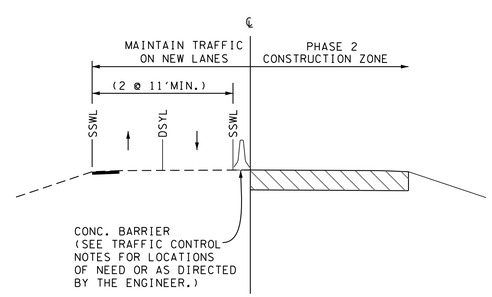


TEMP. WIDENING

NOTE:
ALL WORK SHALL BE DONE WITHIN THE EXIST. R.O.W. (30' FROM ℄). WIDENING WILL REQUIRE SOME ADJUSTMENT TO EXISTING CURBS.



TYPICAL SECTION
PHASE 1



TYPICAL SECTION
PHASE 2

TRAFFIC CONTROL SIGN SCHEDULE

SIGN TYPE	MUTCD NUMBER	SIZE AREA	PHASE ONE	PHASE TWO	TOTAL
ROAD WORK AHEAD	W20-1	36" X 36" 9 s.f.	2	2	2
ROAD WORK 1000 FT	W20-1	36" X 36" 9 s.f.	1	1	1
30 MPH	W13-1P	30" X 30" 6.25 s.f.	3	3	3
	W1-4L	36" X 36" 9 s.f.	2	2	2
	W1-4R	36" X 36" 9 s.f.	0	1	1
CENTER LANE CLOSED	R11-2	48" X 30" 10 s.f.	1	1	1
END ROAD WORK	G20-2	36" X 18" 4.5 s.f.	3	3	3
		TOTAL S.F.	87.25	96.25	96.25

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

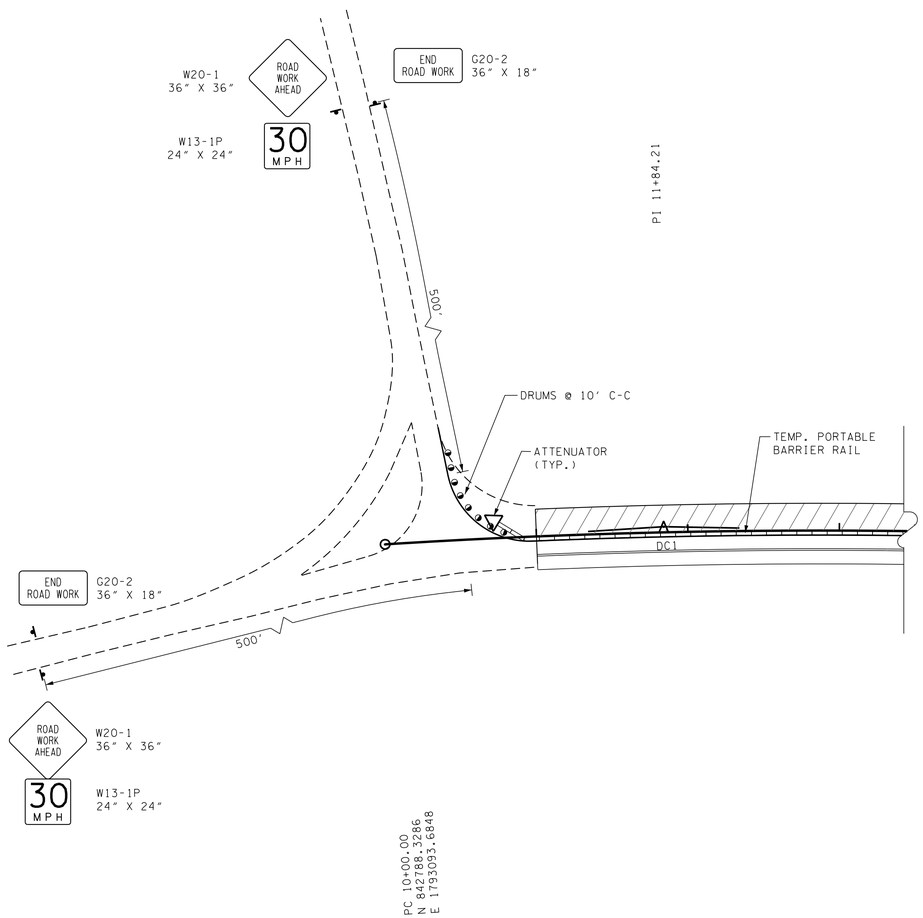
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

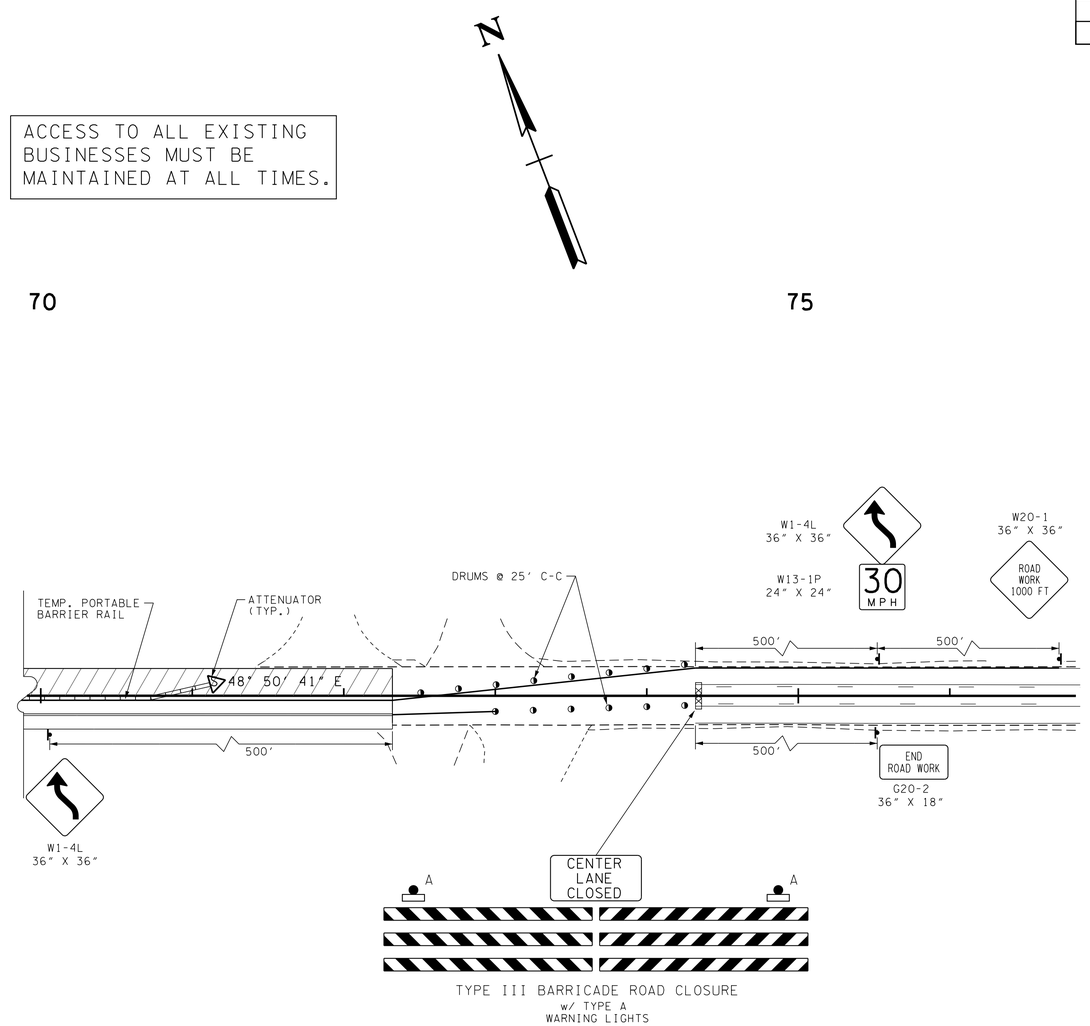
TRAFFIC CONTROL NOTES

5/12/2014 1:23:15 PM
C:\G-TDOT-Projects\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\15.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	15A
CONST.	2014	74945-3480-04	15A

ACCESS TO ALL EXISTING BUSINESSES MUST BE MAINTAINED AT ALL TIMES.





UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 1

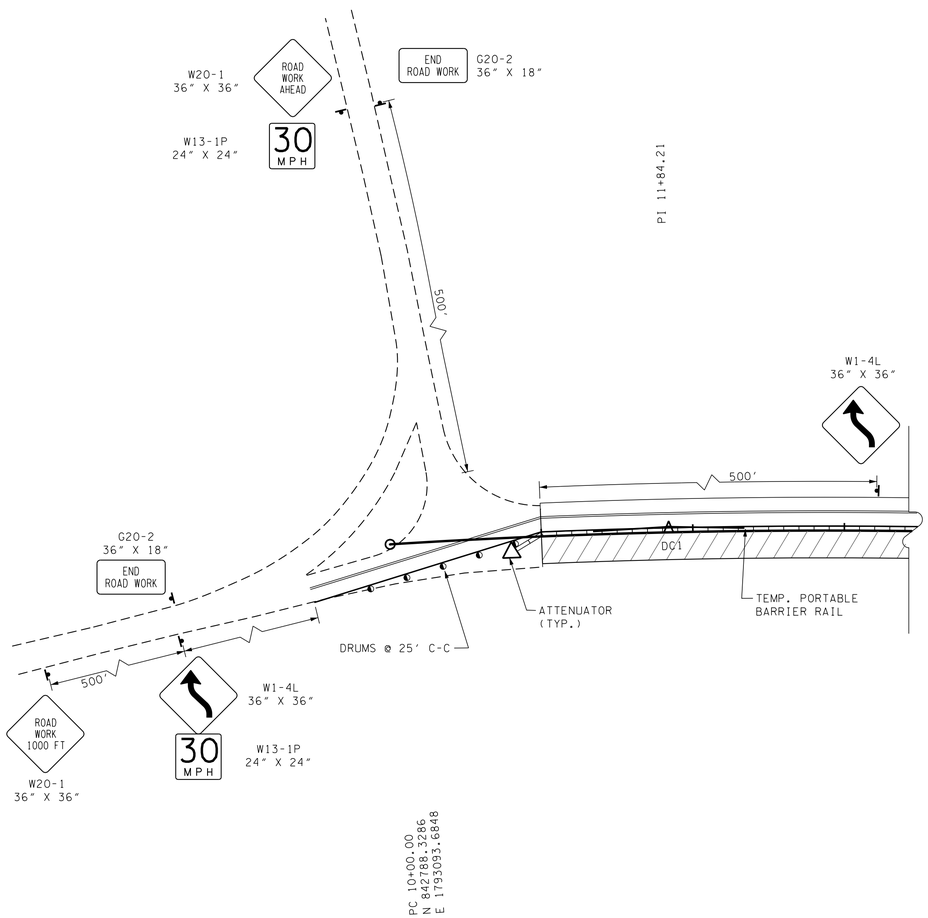
BEG. PROJ. TO STA. 22+00

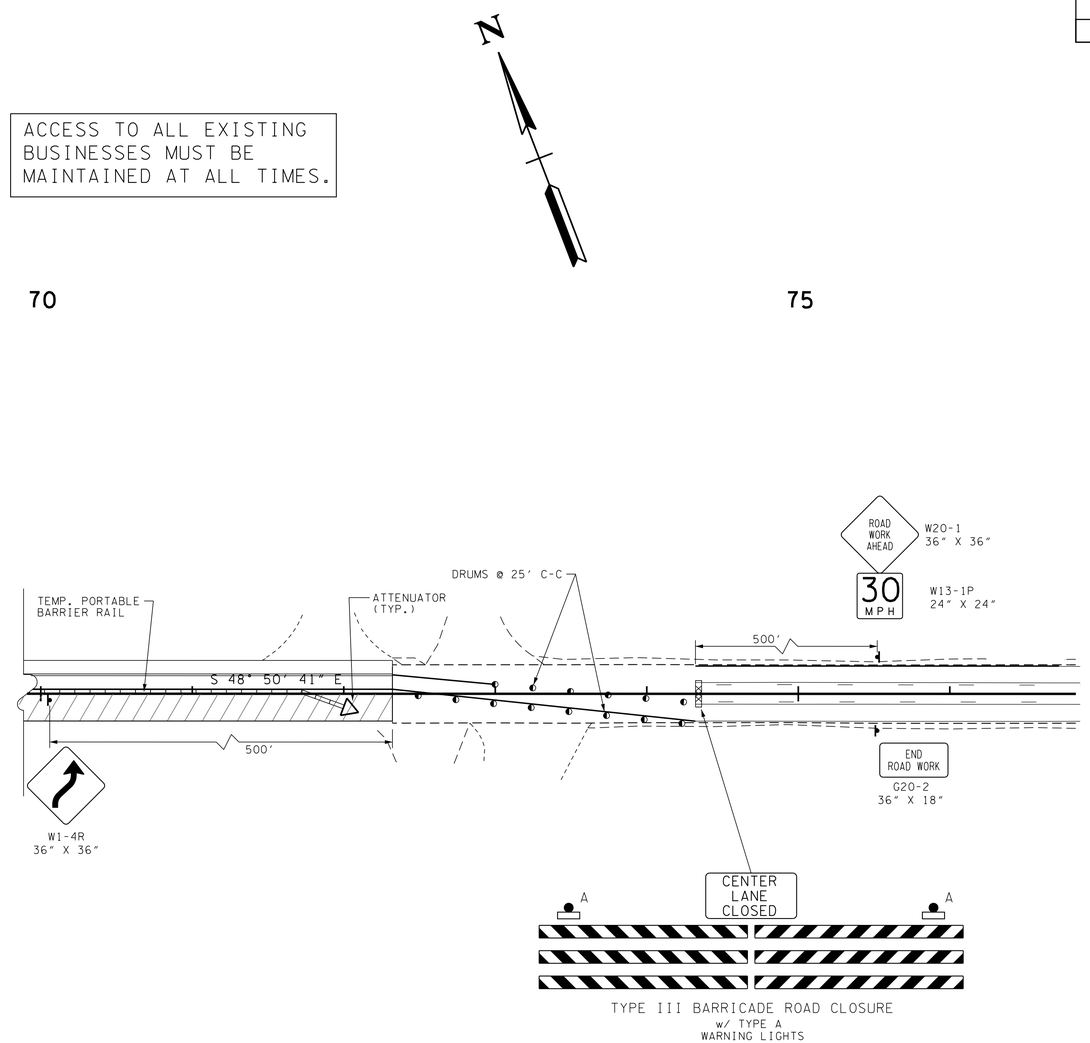
SCALE: 1"= 50'

4/18/2014 1:31:08 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\15A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	15B
CONST.	2014	74945-3480-04	15B

ACCESS TO ALL EXISTING BUSINESSES MUST BE MAINTAINED AT ALL TIMES.





TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

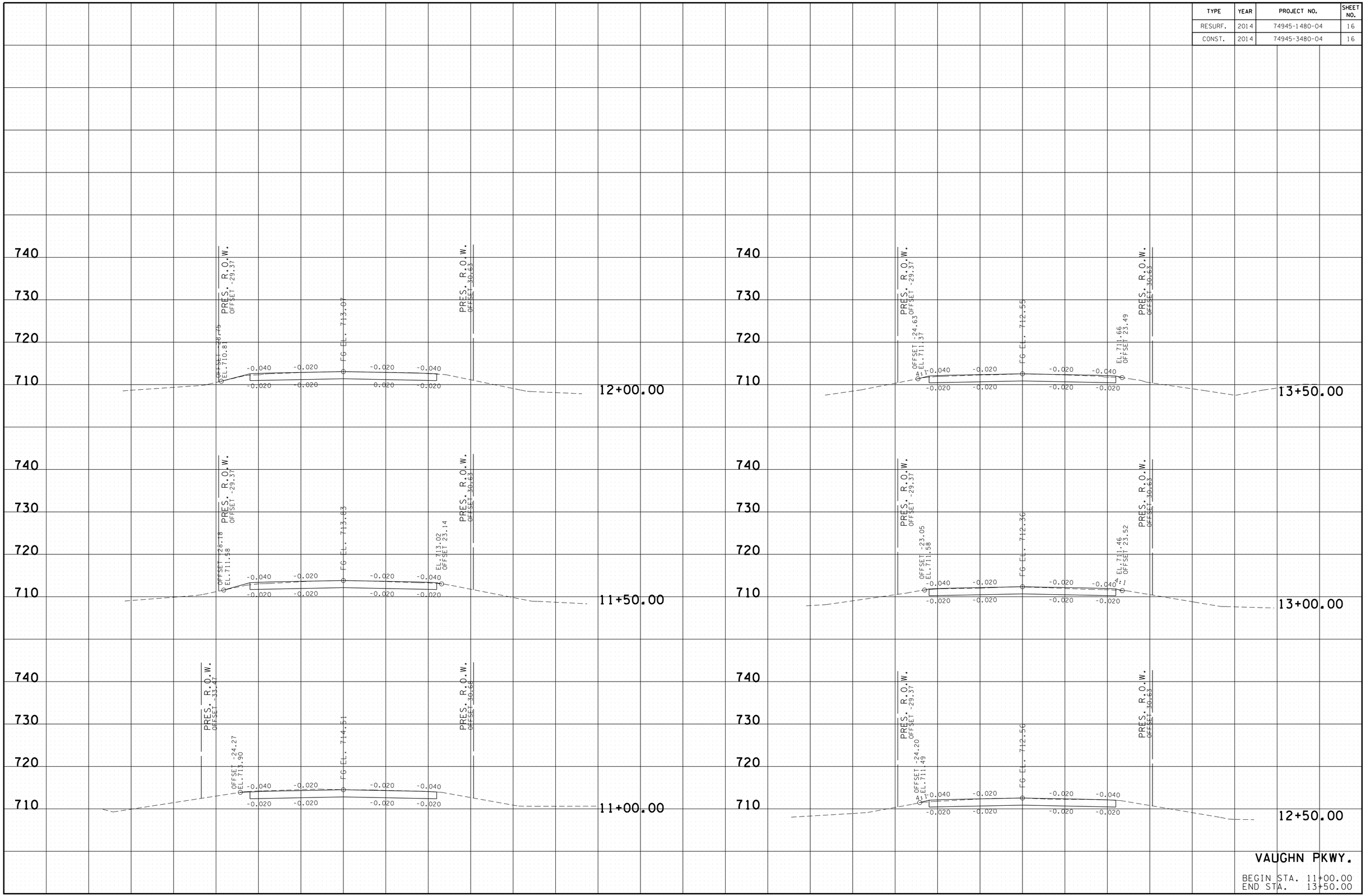
TRAFFIC CONTROL PLAN PHASE 2

BEG. PROJ. TO STA. 22+00

SCALE: 1"= 50'

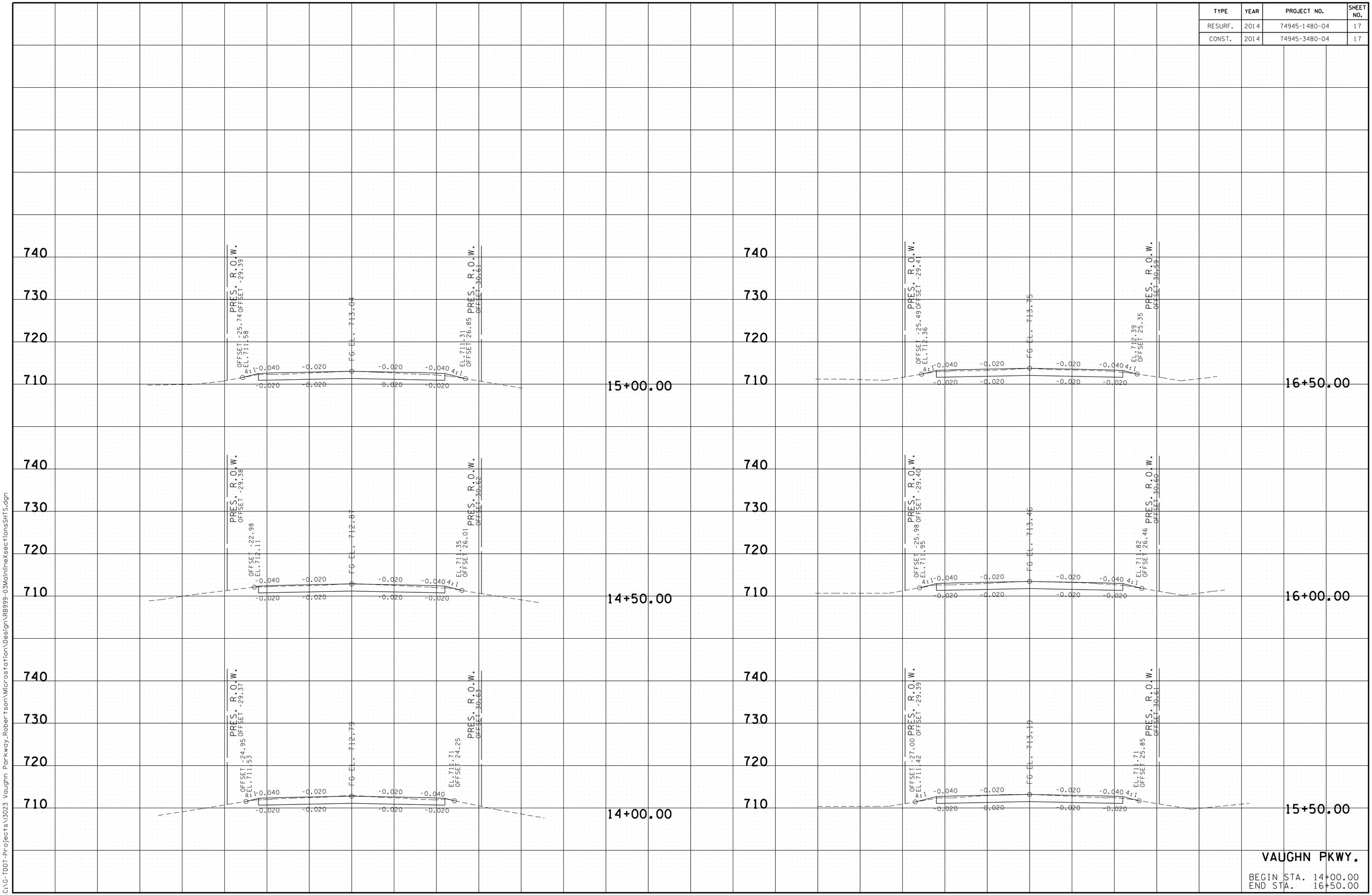
4/18/2014 1:31:09 PM
T:\13023 Vaughn Parkway_Robertson\Microstation\Sheets\InfoOnly\15B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	16
CONST.	2014	74945-3480-04	16



4/23/2014 12:52:02 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	17
CONST.	2014	74945-3480-04	17

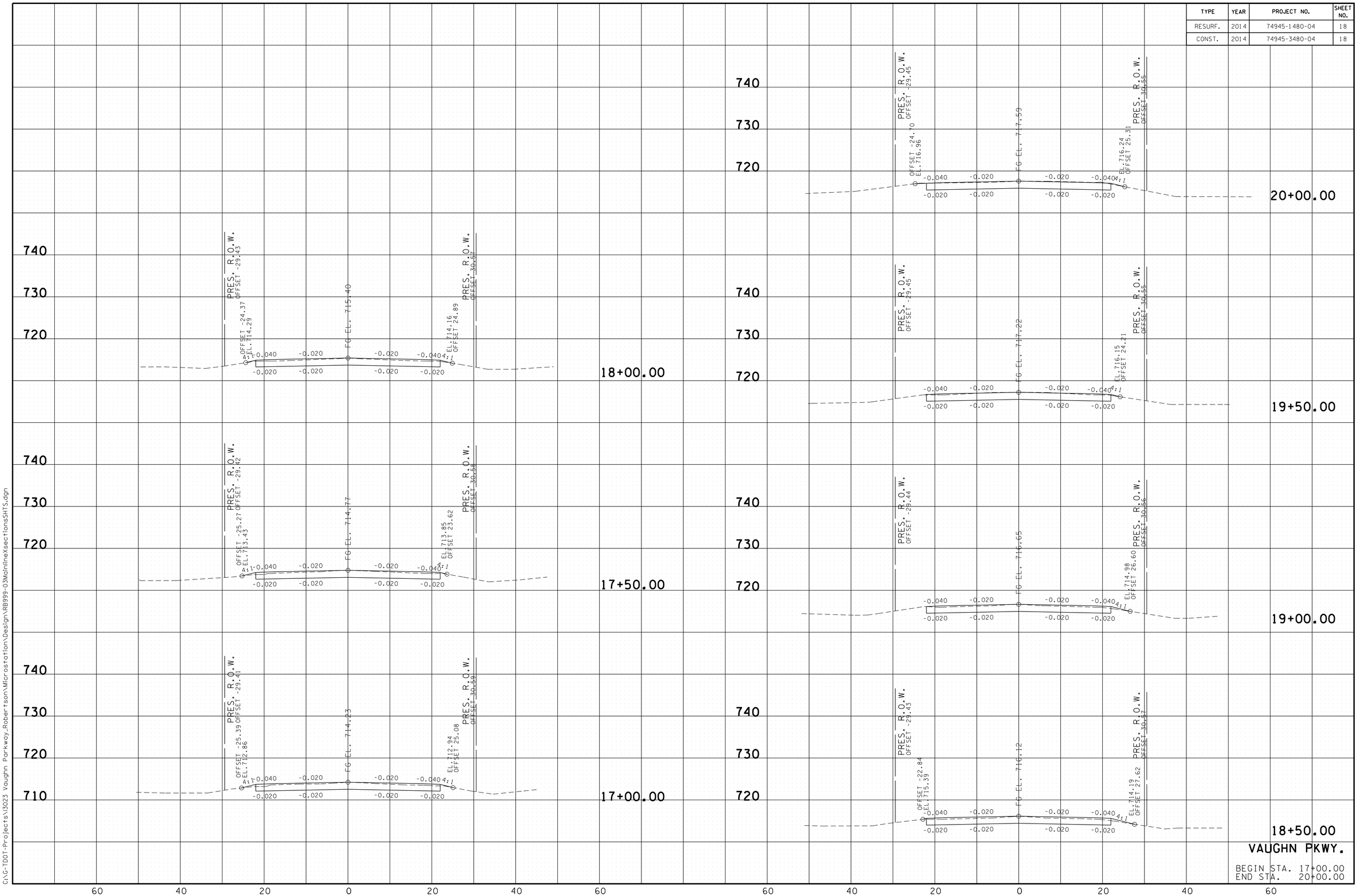


VAUGHN PKWY.

BEGIN STA. 14+00.00
END STA. 16+50.00

4/23/2014 12:52:04 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	18
CONST.	2014	74945-3480-04	18

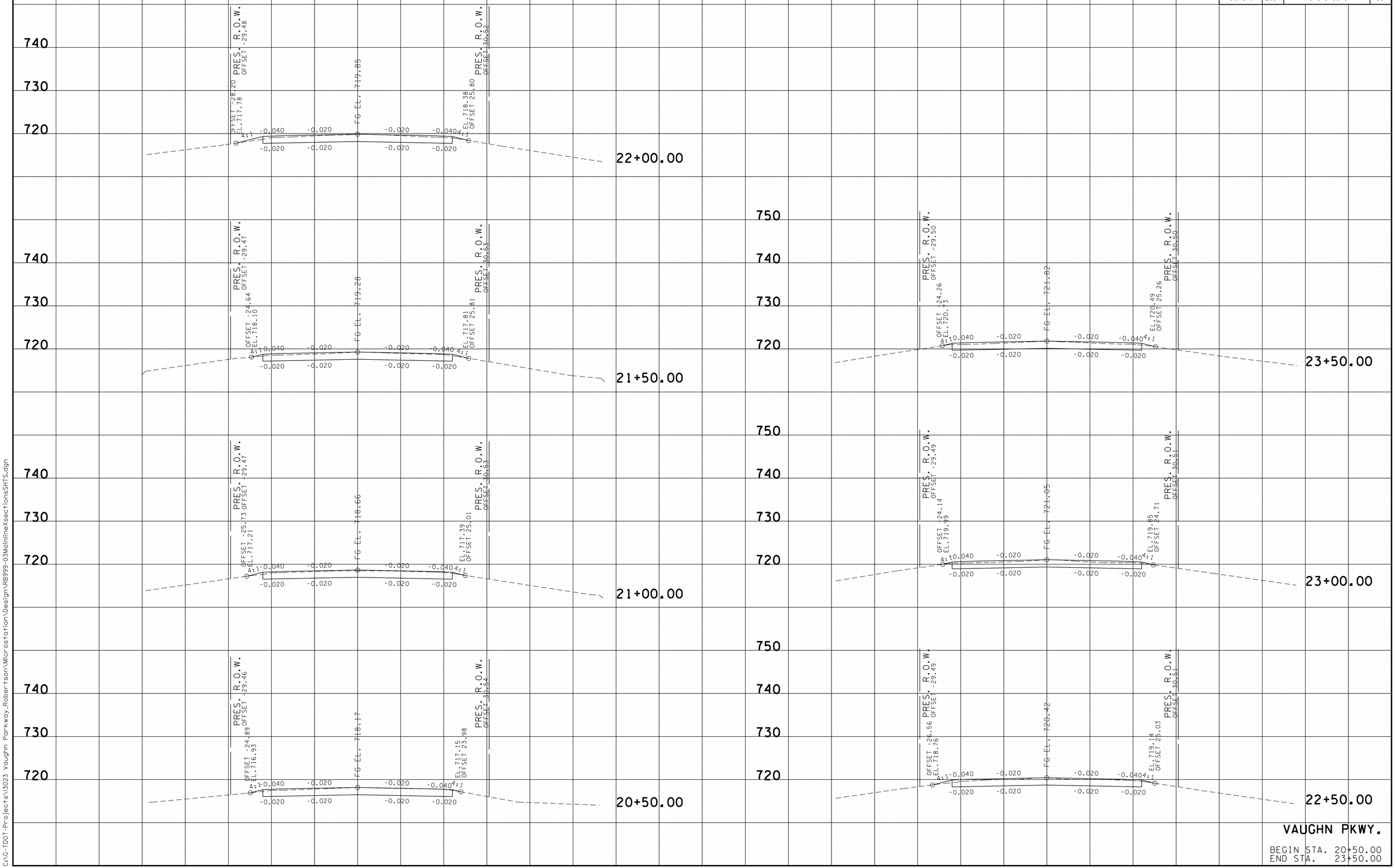


VAUGHN PKWY.

BEGIN STA. 17+00.00
END STA. 20+00.00

4/23/2014 12:52:06 PM
C:\VG-TDOT-Projects\13023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	19
CONST.	2014	74945-3480-04	19

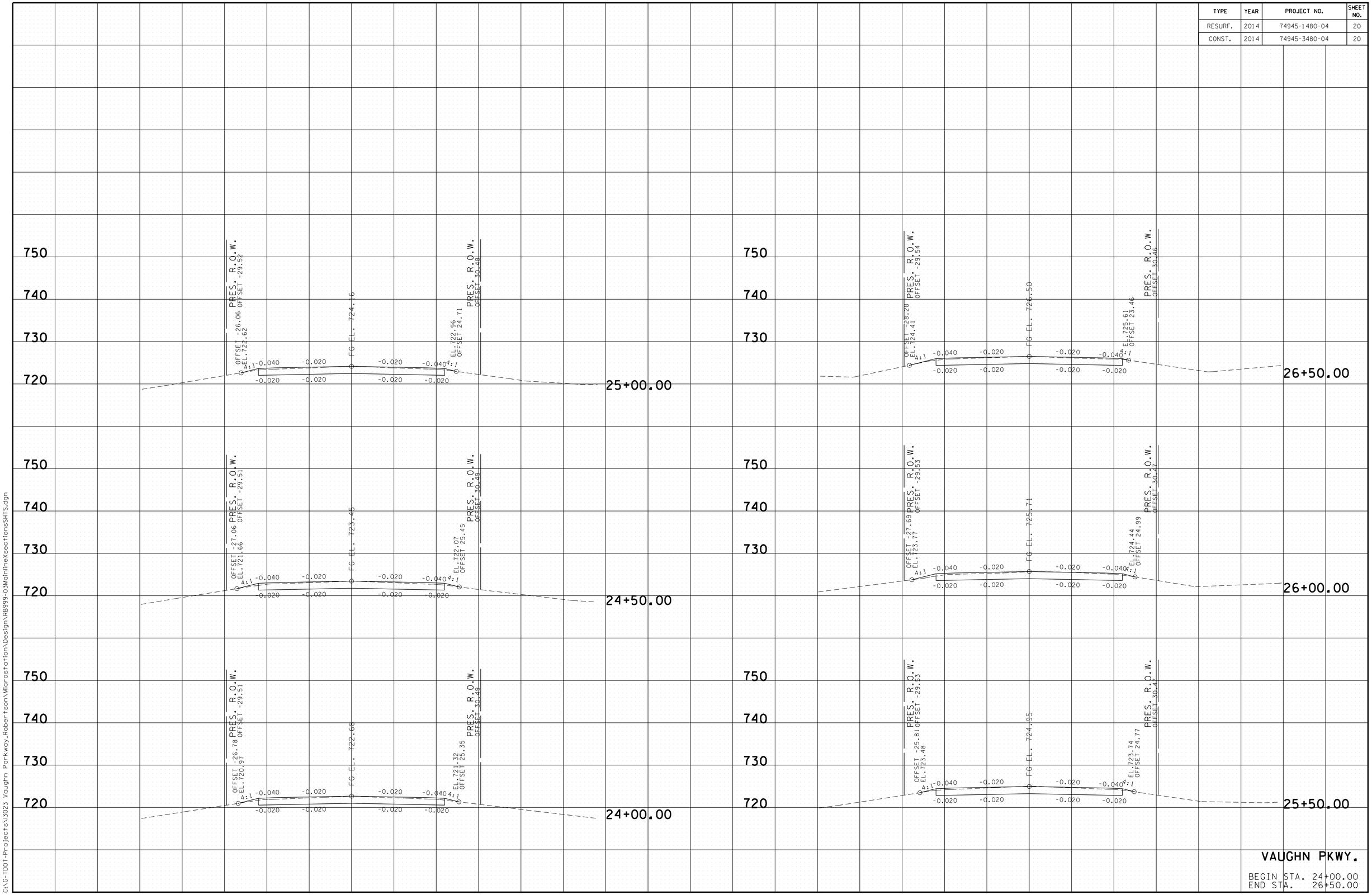


VAUGHN PKWY.

BEGIN STA. 20+50.00
END STA. 23+50.00

4/23/2014 12:52:08 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	20
CONST.	2014	74945-3480-04	20

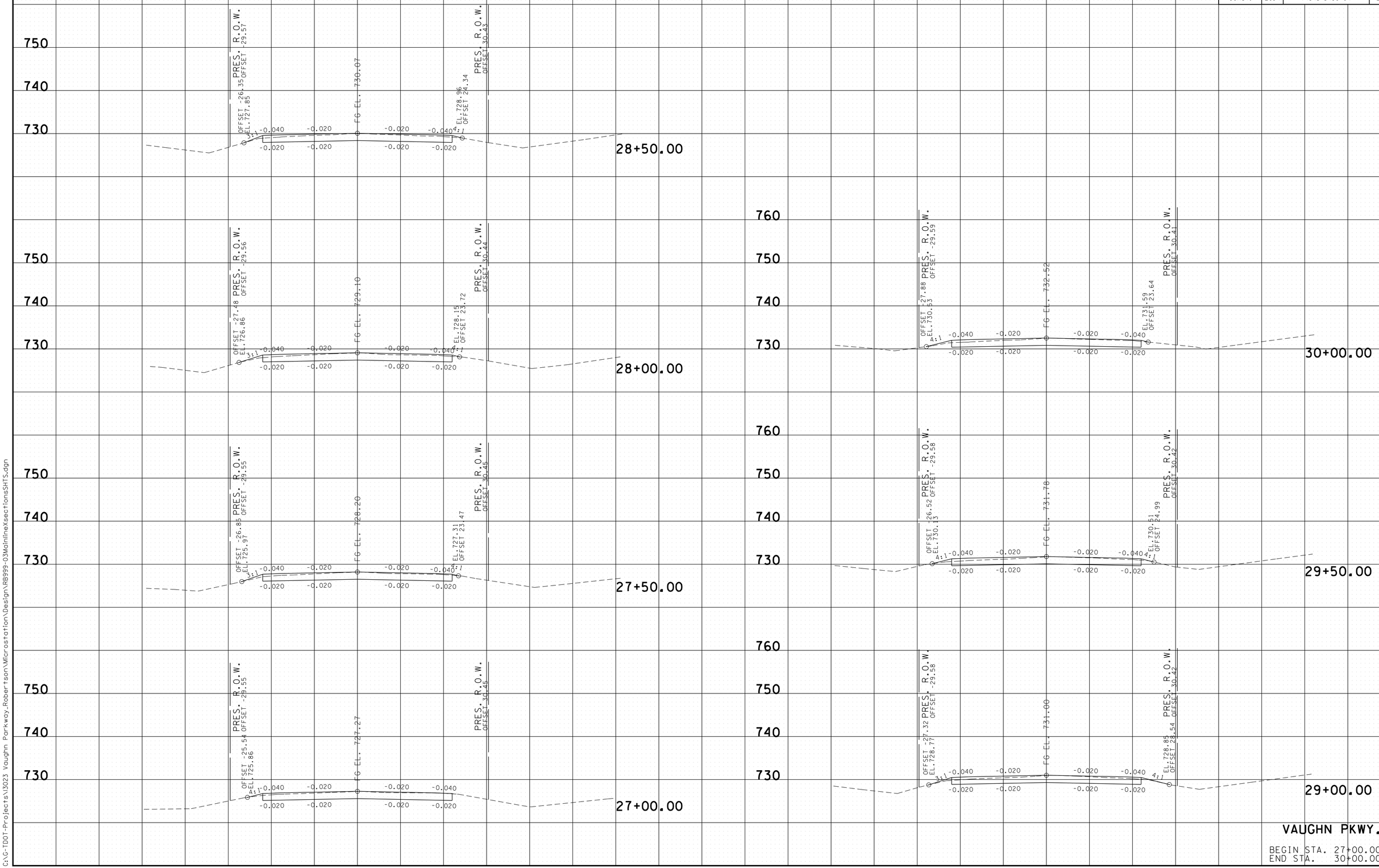


VAUGHN PKWY.

BEGIN STA. 24+00.00
END STA. 26+50.00

4/23/2014 12:52:10 PM
C:\G-TDOT-Projects\13023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	21
CONST.	2014	74945-3480-04	21

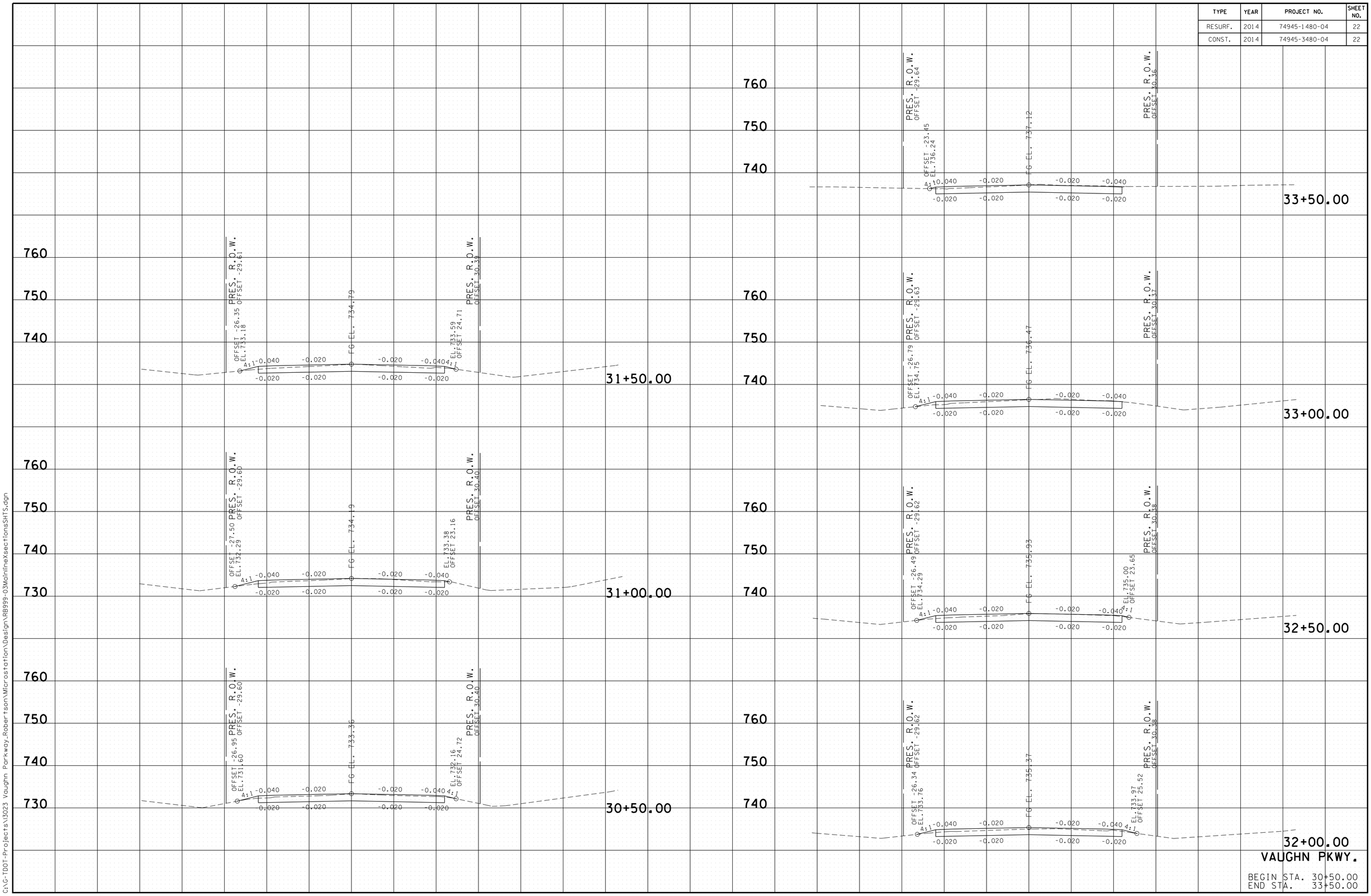


VAUGHN PKWY.

BEGIN STA. 27+00.00
END STA. 30+00.00

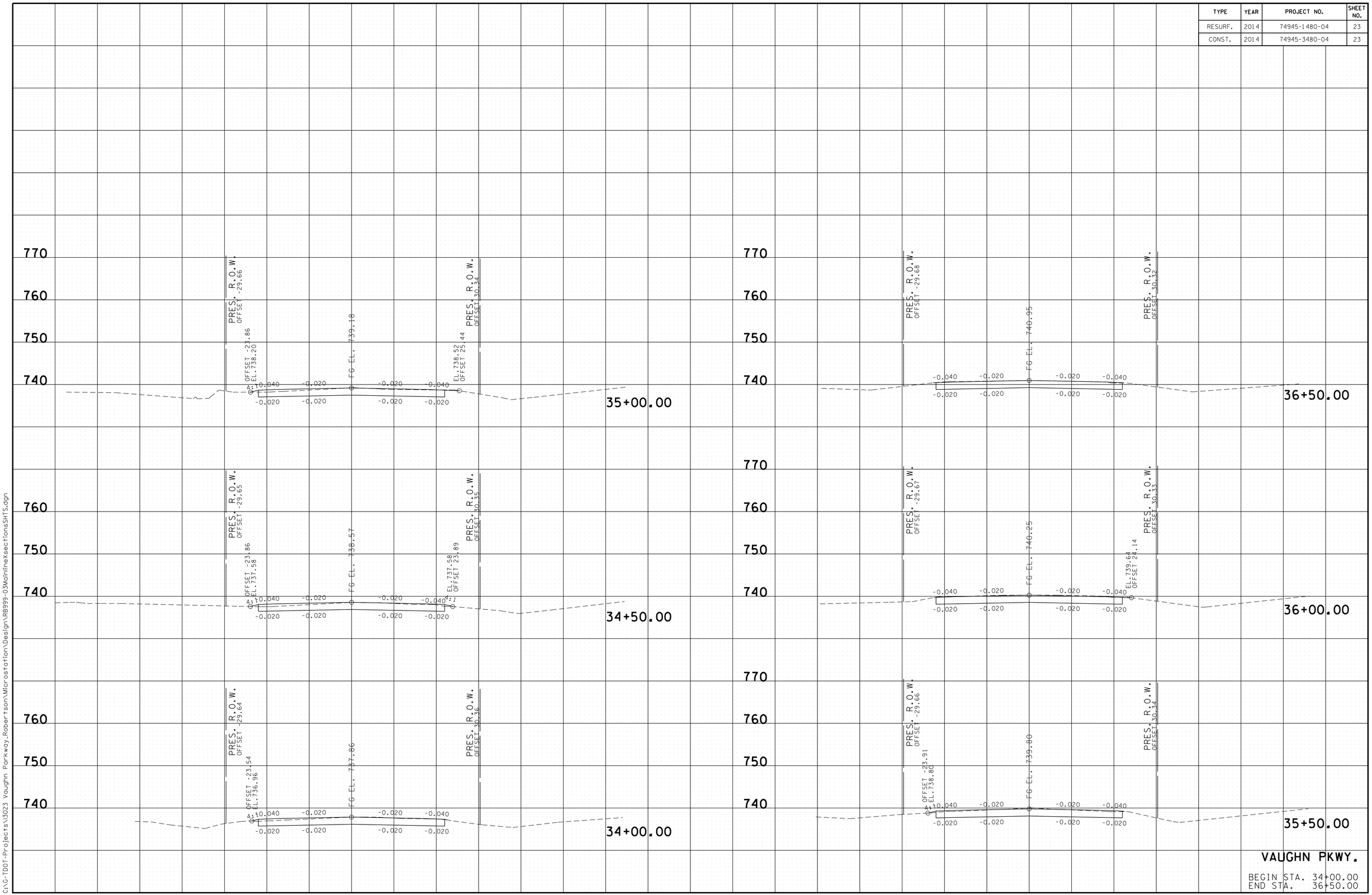
4/23/2014 12:52:12 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	22
CONST.	2014	74945-3480-04	22



4/23/2014 12:52:14 PM
C:\G-TDOT-Projects\13023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	23
CONST.	2014	74945-3480-04	23

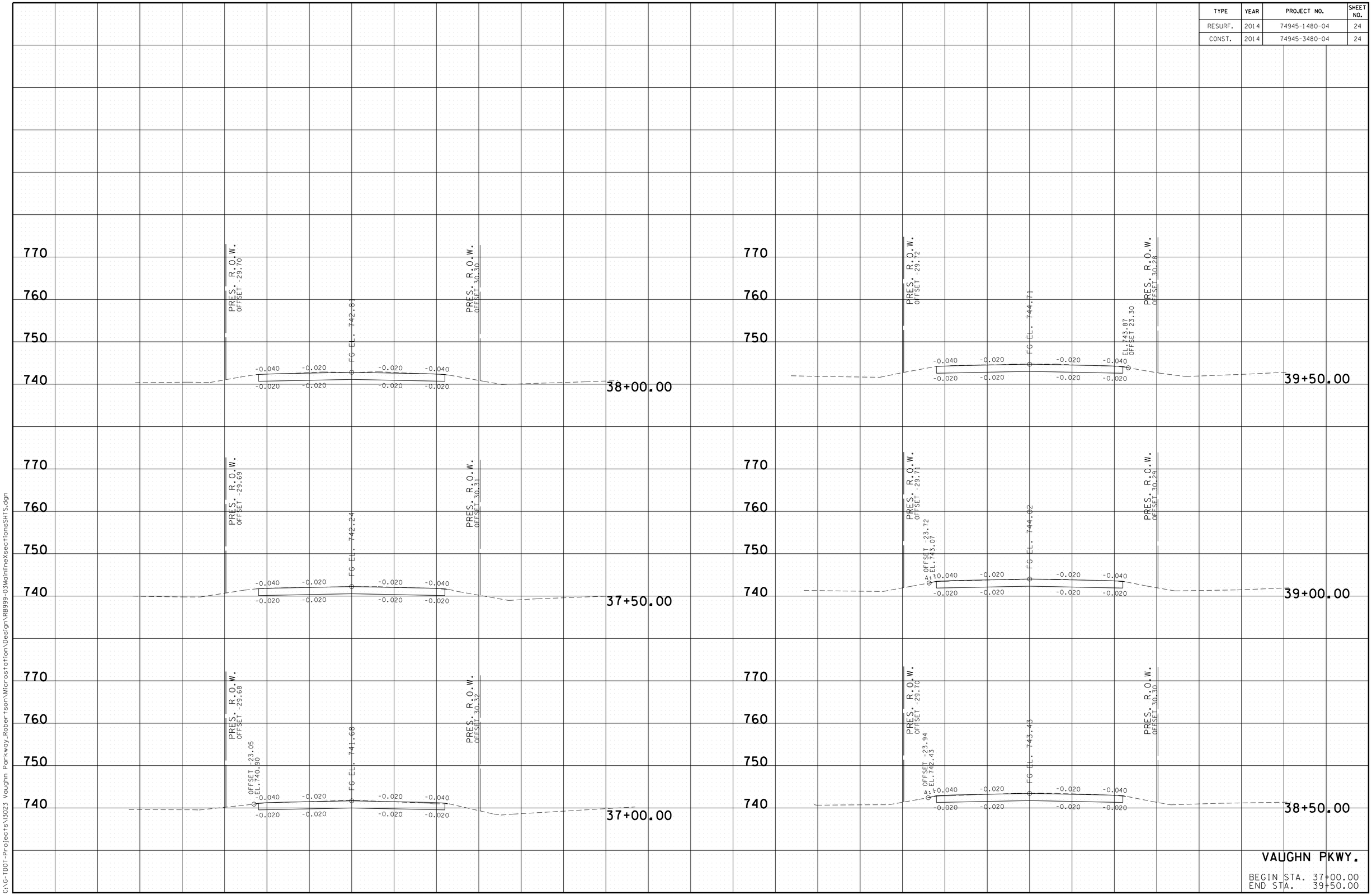


VAUGHN PKWY.

BEGIN STA. 34+00.00
END STA. 36+50.00

4/23/2014 12:52:16 PM
C:\G-TDOT-Projects\13023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineSectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	24
CONST.	2014	74945-3480-04	24

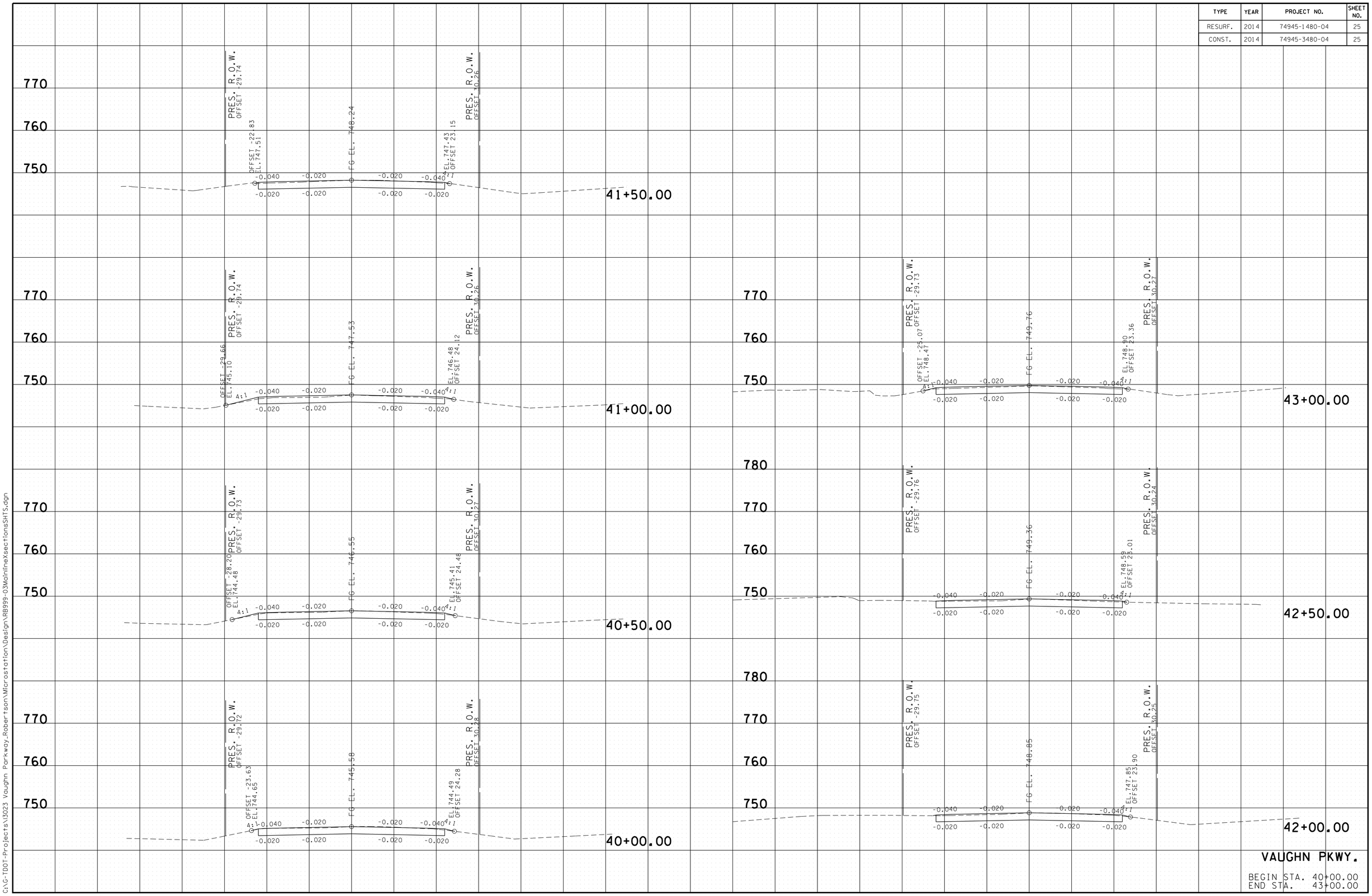


VAUGHN PKWY.

BEGIN STA. 37+00.00
END STA. 39+50.00

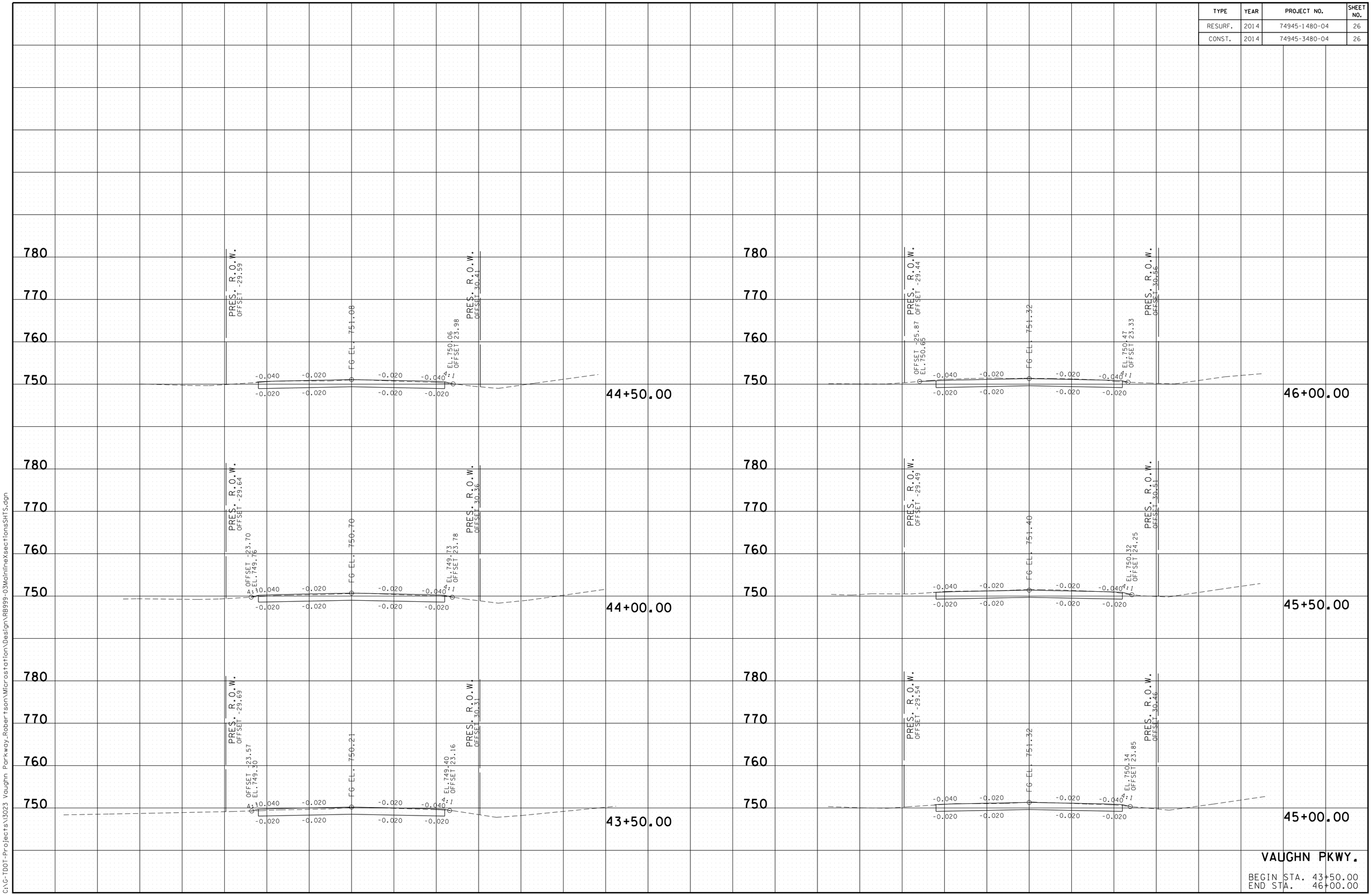
4/23/2014 12:52:19 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	25
CONST.	2014	74945-3480-04	25



4/23/2014 12:52:21 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	26
CONST.	2014	74945-3480-04	26

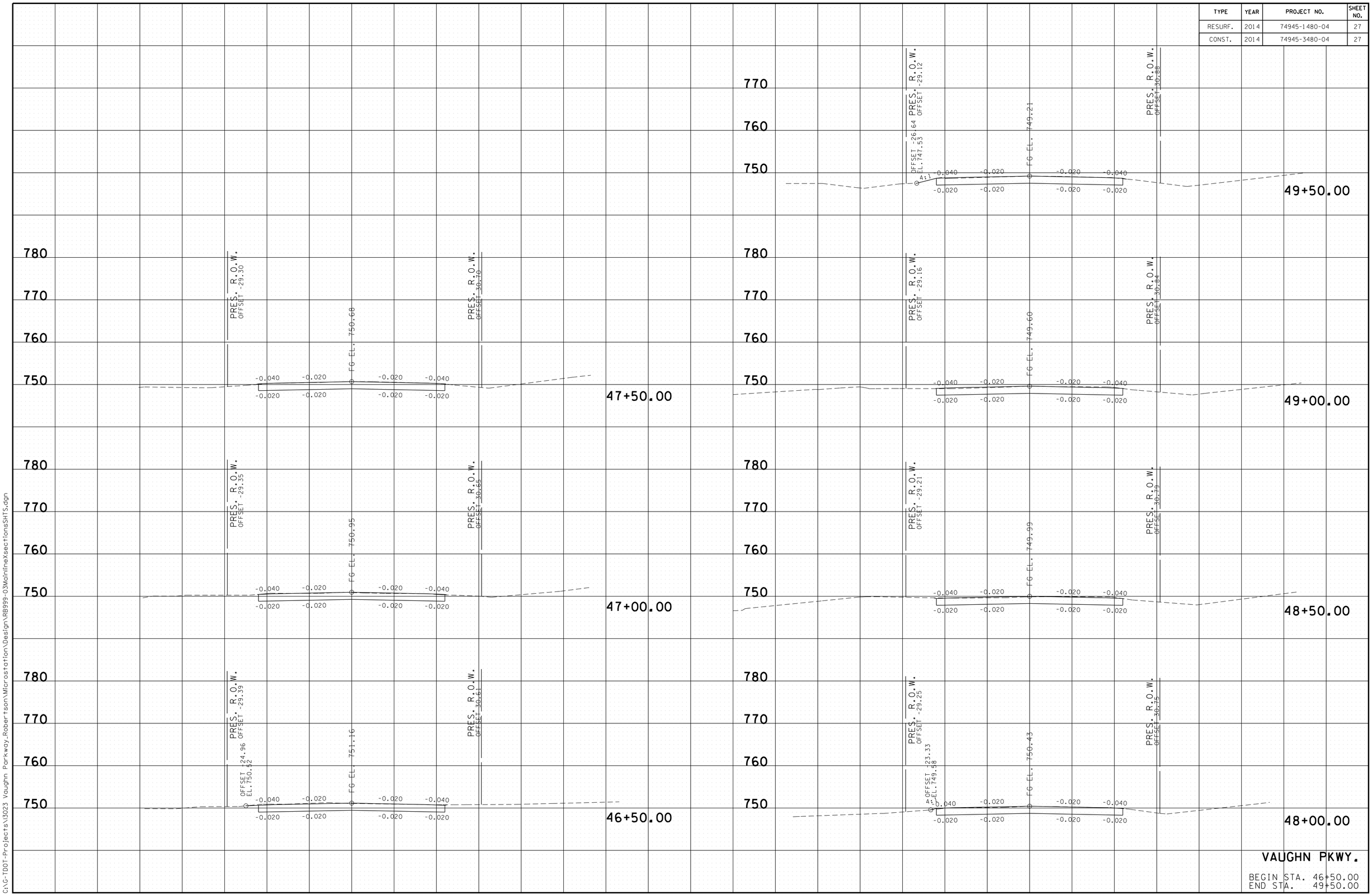


VAUGHN PKWY.

BEGIN STA. 43+50.00
END STA. 46+00.00

4/23/2014 12:52:23 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	27
CONST.	2014	74945-3480-04	27

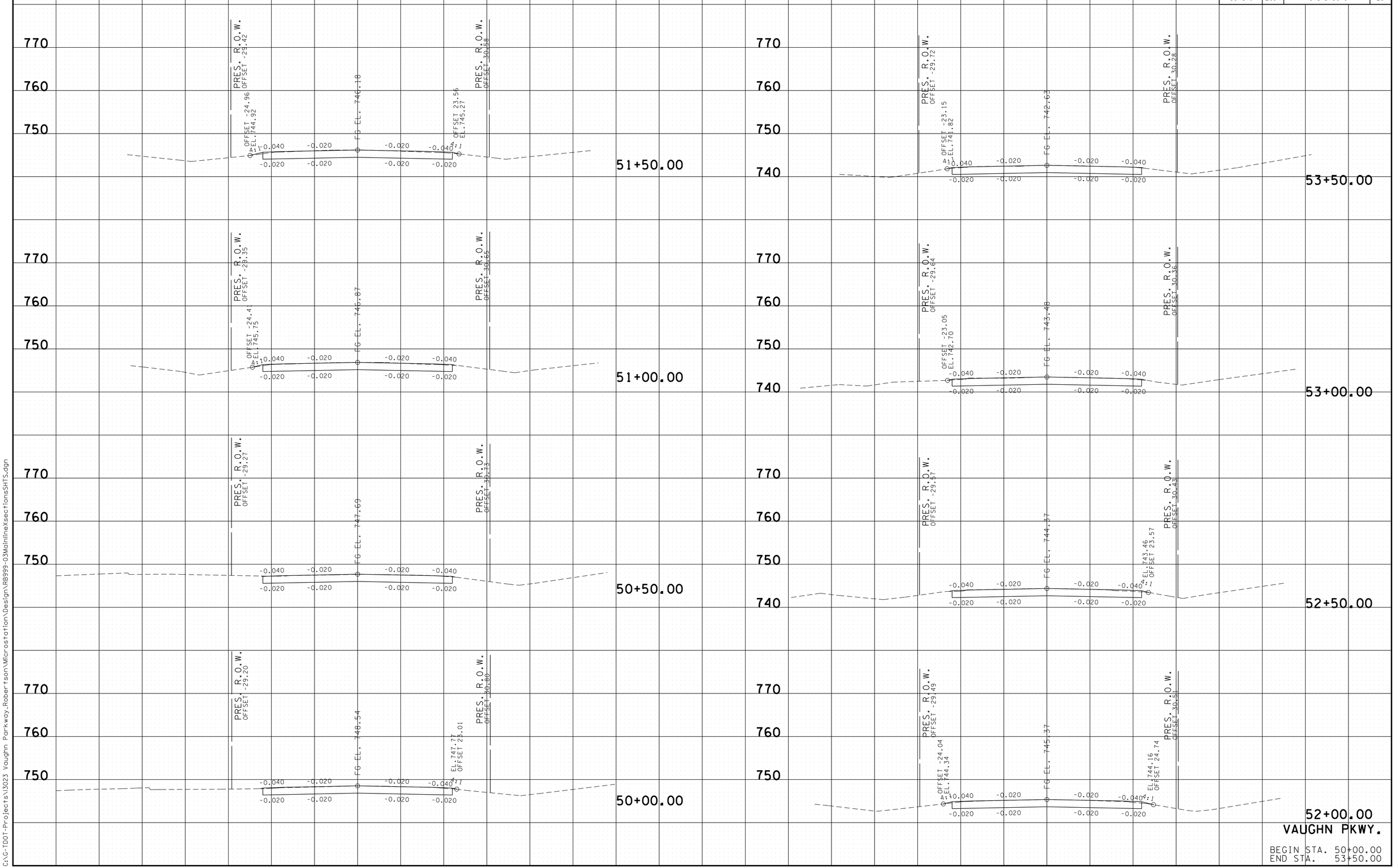


VAUGHN PKWY.

BEGIN STA. 46+50.00
END STA. 49+50.00

4/23/2014 12:52:25 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	28
CONST.	2014	74945-3480-04	28



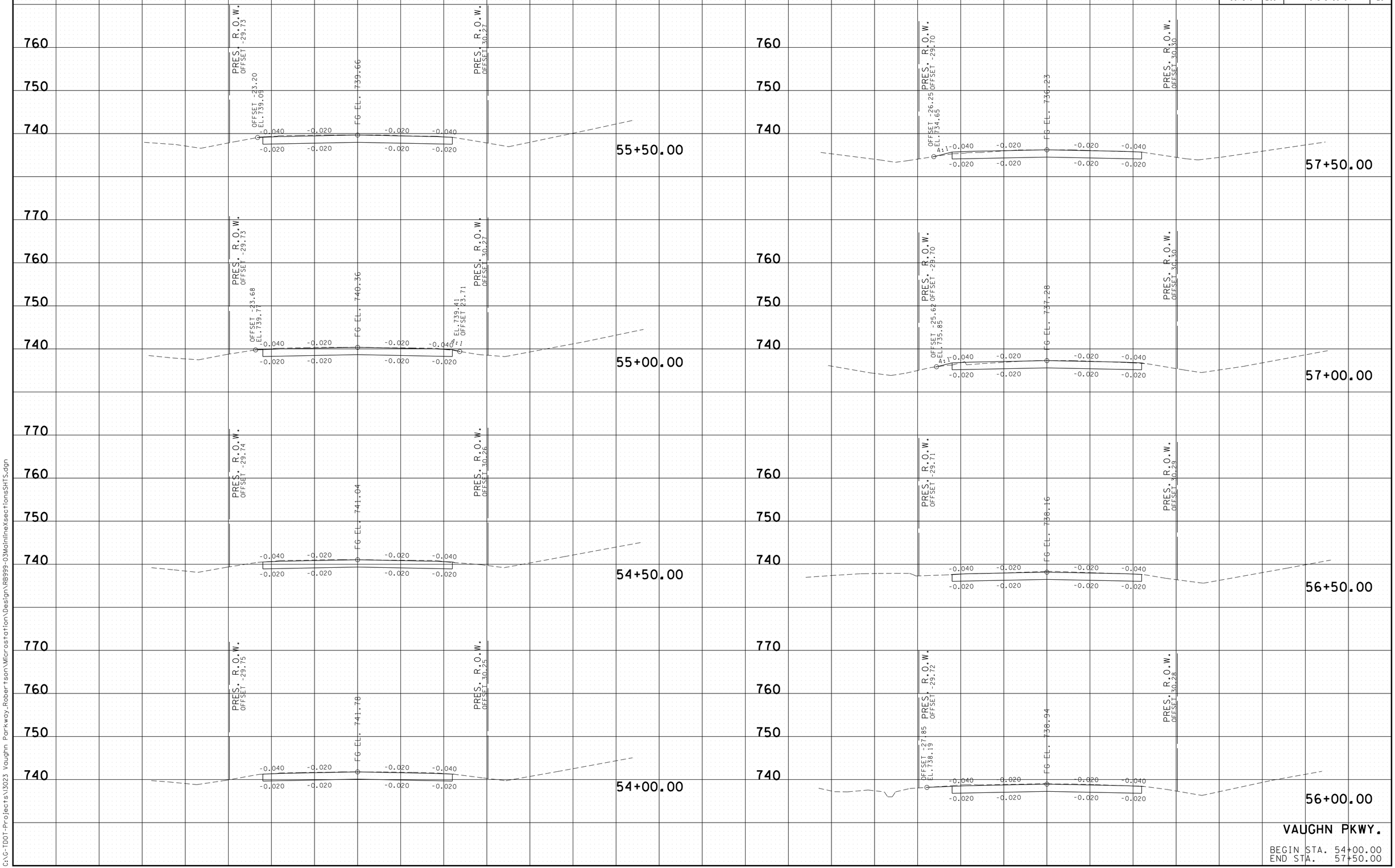
VAUGHN PKWY.

BEGIN STA. 50+00.00
END STA. 53+50.00

60 40 20 0 20 40 60 60 40 20 0 20 40 60

4/23/2014 12:52:27 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	29
CONST.	2014	74945-3480-04	29

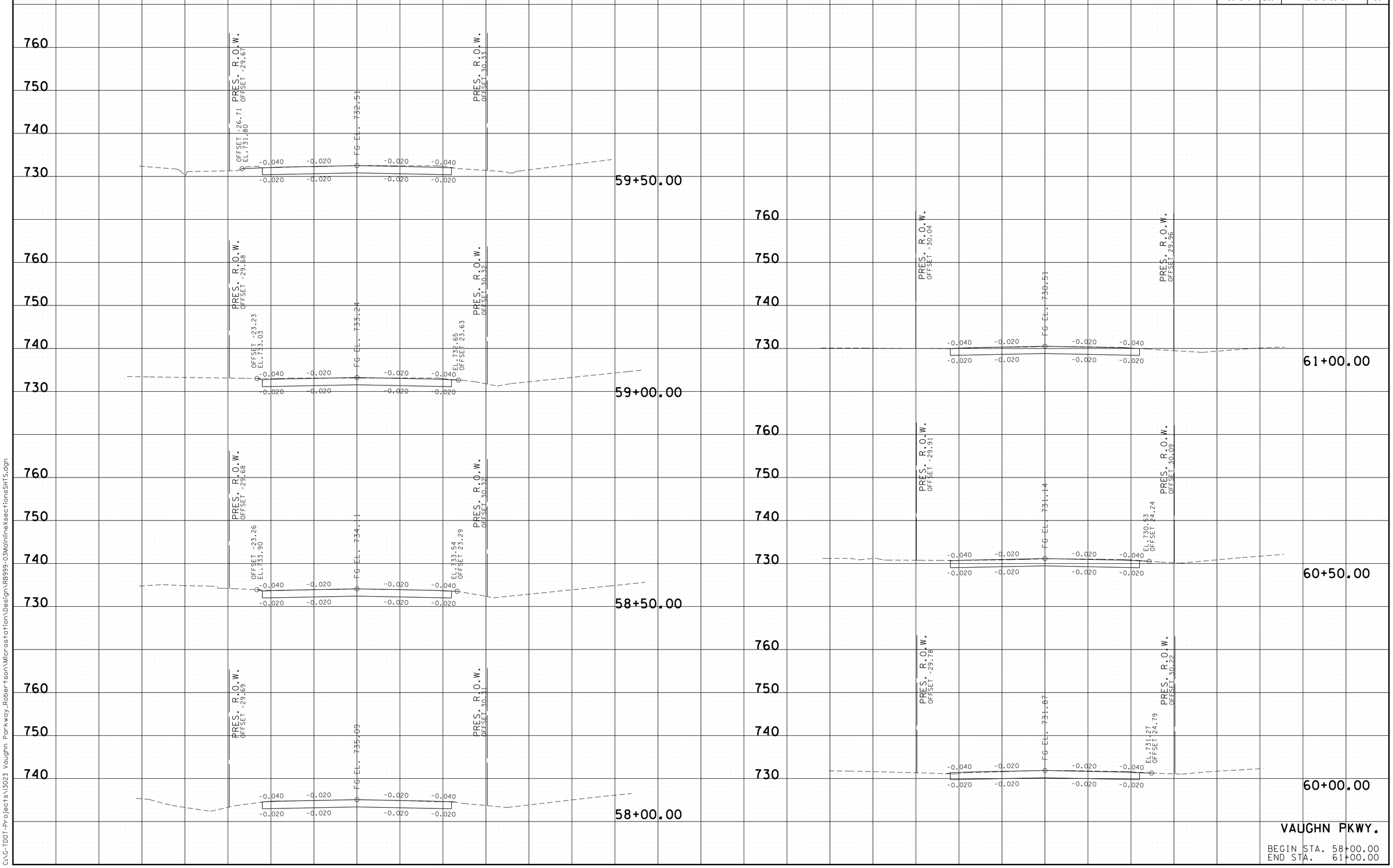


VAUGHN PKWY.

BEGIN STA. 54+00.00
END STA. 57+50.00

4/23/2014 12:52:29 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	30
CONST.	2014	74945-3480-04	30

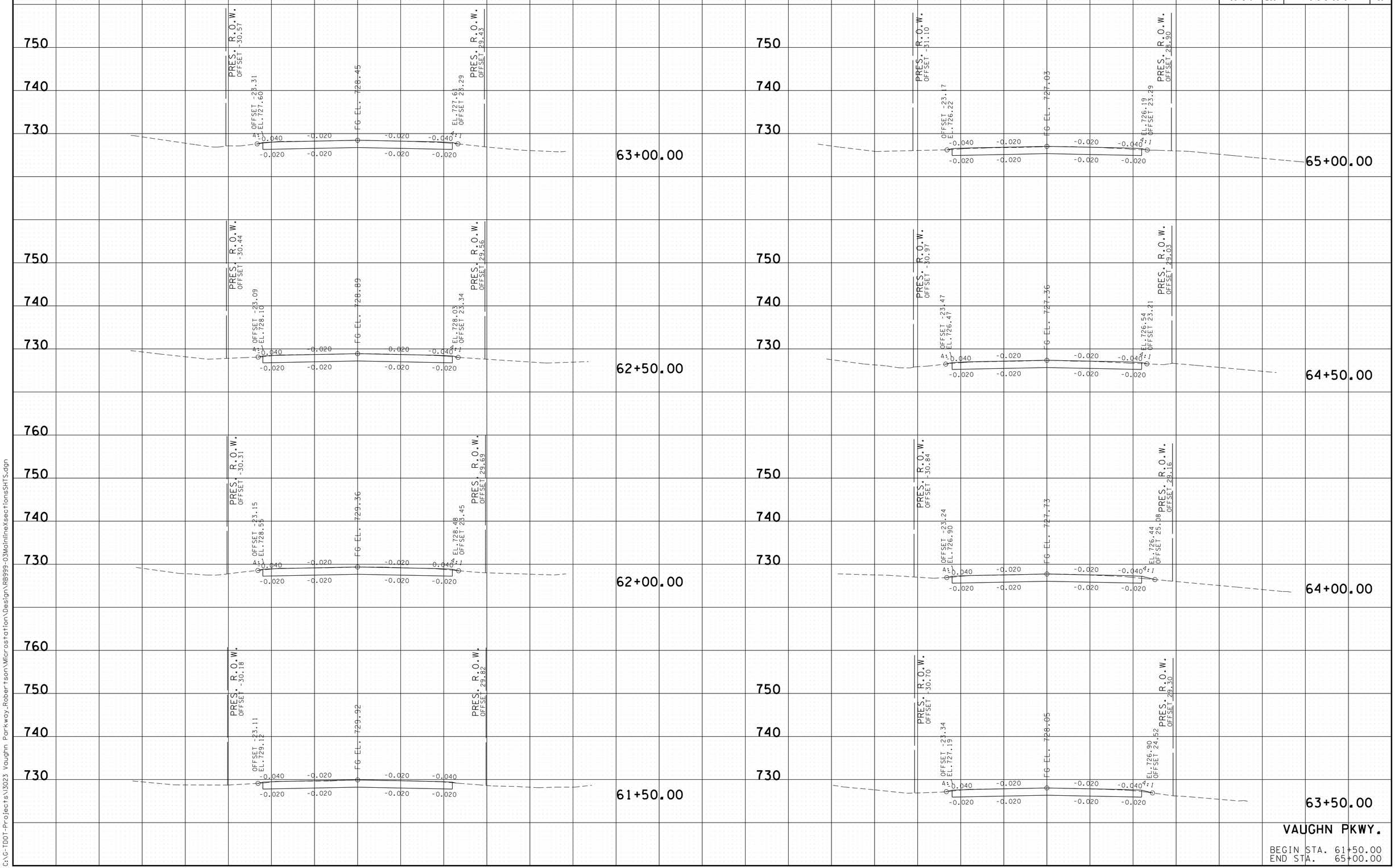


VAUGHN PKWY.

BEGIN STA. 58+00.00
END STA. 61+00.00

4/23/2014 12:52:32 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	31
CONST.	2014	74945-3480-04	31

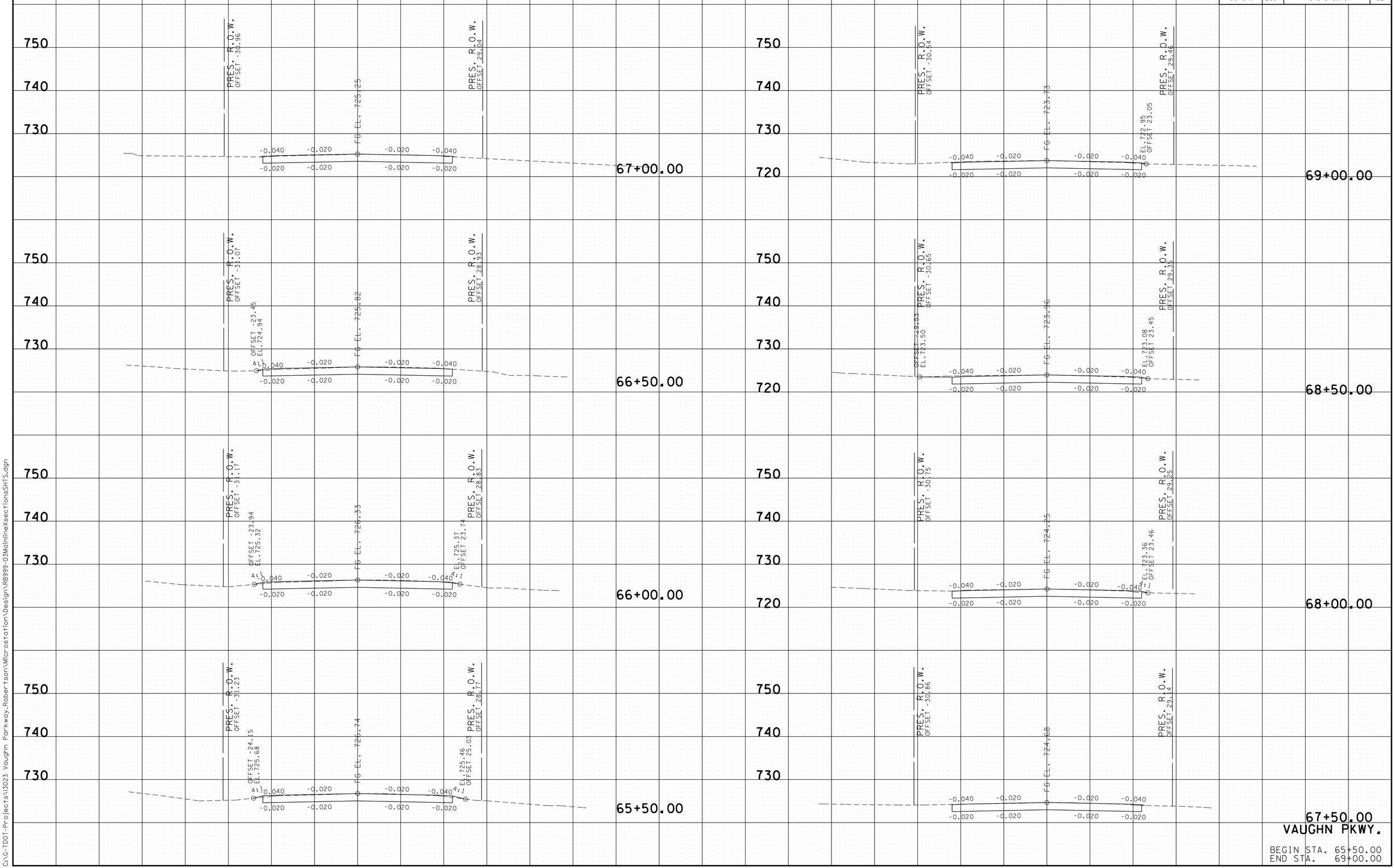


VAUGHN PKWY.

BEGIN STA. 61+50.00
END STA. 65+00.00

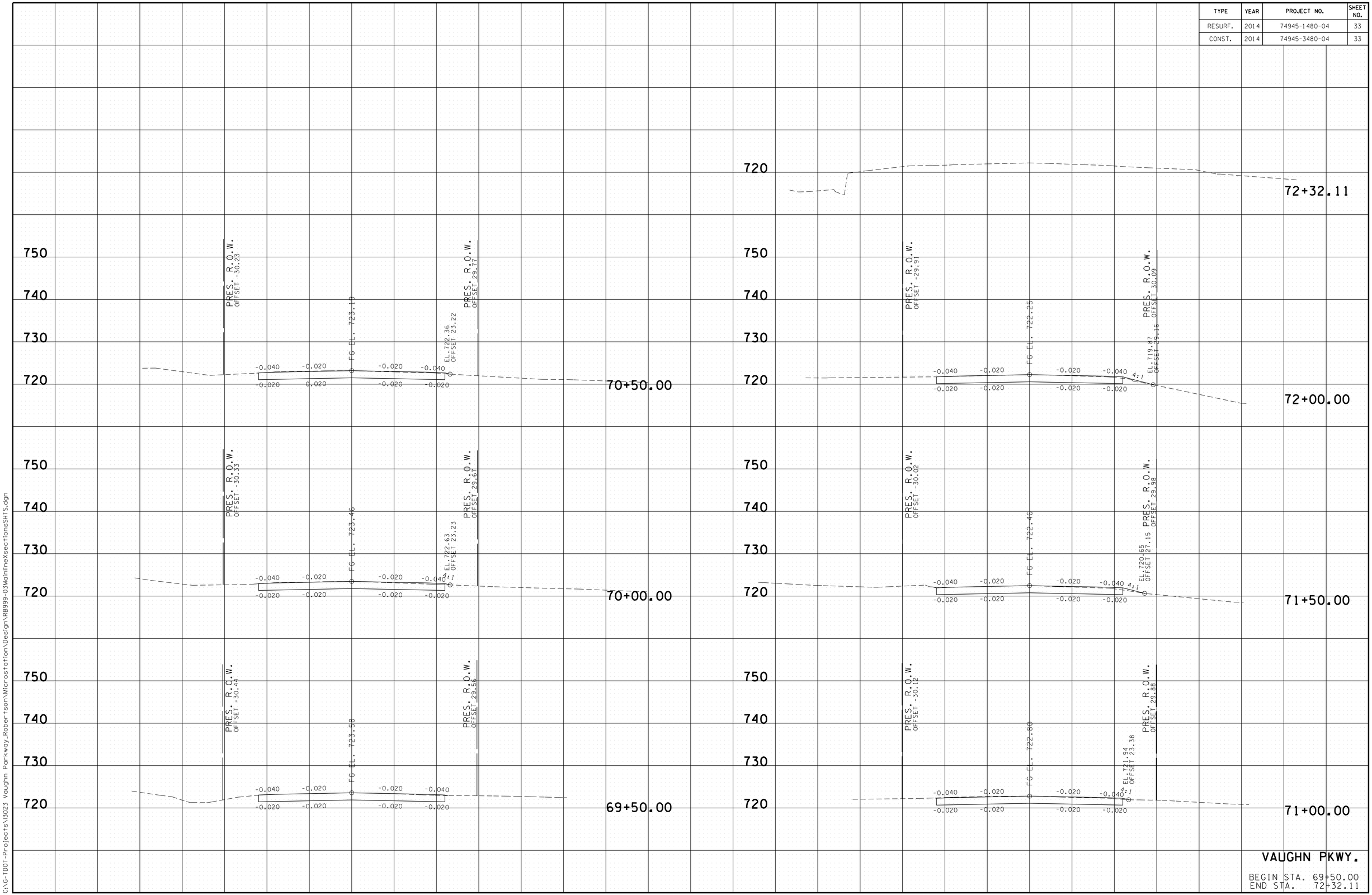
4/23/2014 12:52:34 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	32
CONST.	2014	74945-3480-04	32



4/23/2014 12:52:36 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2014	74945-1480-04	33
CONST.	2014	74945-3480-04	33



4/23/2014 12:52:38 PM
C:\G-TDOT-Projects\3023 Vaughn Parkway_Robertson\Microstation\Design\RB999-03MainlineXsectionsSHTS.dgn