

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



## BRUNSWICK CUMBERLAND COUNTY

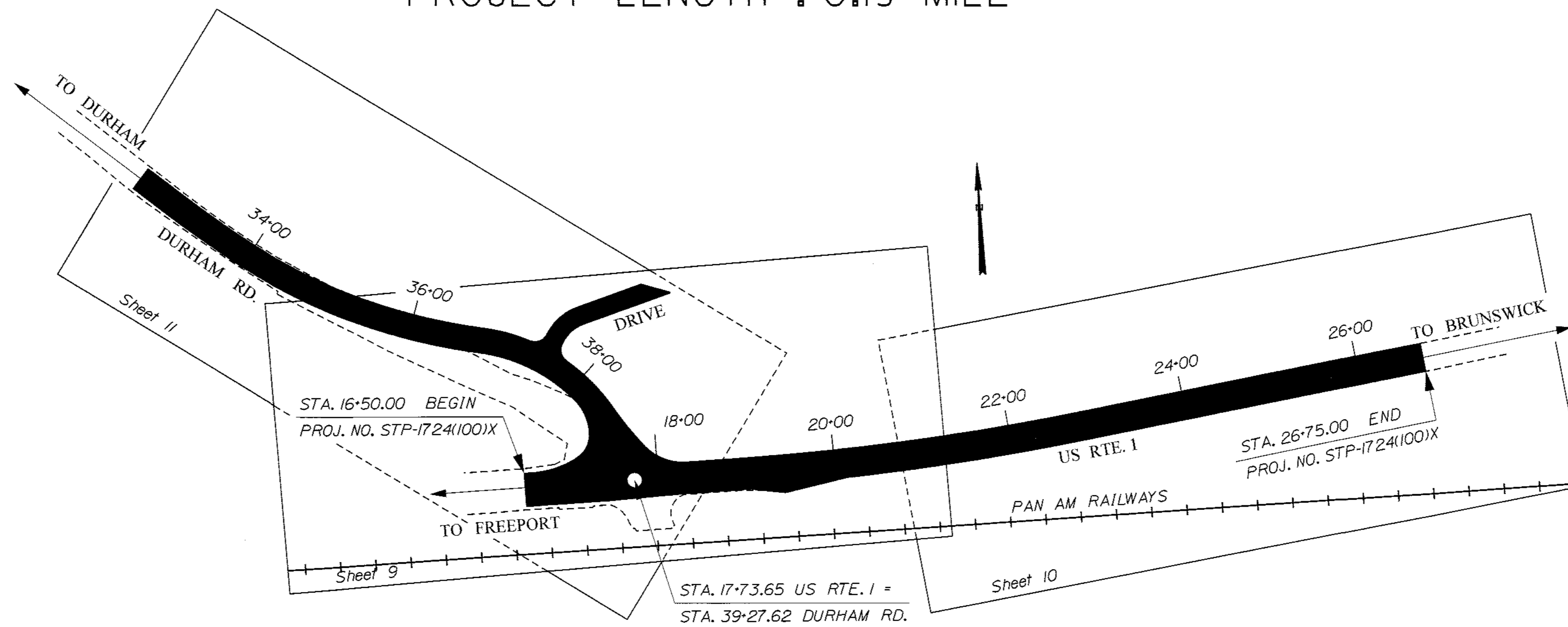
US RTE. 1 \ DURHAM RD.  
**STP-1724(100)X**  
PROJECT LENGTH : 0.19 MILE

### PLAN LEGEND

|                            |                             |                        |
|----------------------------|-----------------------------|------------------------|
| Town, County, State        | Centerline-Existing         | Centerline-Proposed    |
| Property Lines             | Travelway-Existing          | Travelway-Proposed     |
| R/W Lines-Existing         | Railroad                    | Catch Basins           |
| R/W Lines-Proposed         | Culvert-Existing            | Catch Basins           |
| Culvert-Existing           | Culvert Proposed            | Manholes               |
| Culvert Proposed           | Existing                    | Proposed               |
| Curbing                    | Existing                    | Proposed               |
| Type 1                     | Proposed Underdrain         | Proposed Ditch         |
| Type 3                     | Proposed Ditch              | Existing Ditch         |
| Type 5                     | Utility Poles               | Existing               |
| Outline of Bodies of Water | Fire Hydrants               | Existing               |
| Ledge                      | Existing Water Line         | Existing San. Sewer    |
| Buildings                  | Existing San. Sewer Manhole | Guardrail-Existing     |
| Trees                      | Guardrail-Proposed          | Guardrail-Cable, Other |
| Tree Line                  | Clearing Limit Line         |                        |

### INDEX OF SHEETS

| Description                             | Sheet No. |
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| TRAFFIC DATA                   | DURHAM RD.<br>(NW/O US1) | US 1<br>(E/O DURHAM RD.) | US 1<br>(W/O DURHAM RD.) |
|--------------------------------|--------------------------|--------------------------|--------------------------|
| Current (2012) AADT            | 3520                     | 4810                     | 3250                     |
| Future (2032) AADT             | 4220                     | 5770                     | 3900                     |
| DHV - % of AADT                | 12%                      | 10%                      | 12%                      |
| Design Hour Volume             | 506                      | 577                      | 468                      |
| % Heavy Trucks (AADT)          | 5%                       | 4%                       | 6%                       |
| % Heavy Trucks (DHV)           | 4%                       | 3%                       | 5%                       |
| Directional Distribution (DHV) | 55%                      | 55%                      | 55%                      |
| 18 kip Equivalent P 2.0        | 153                      | 179                      | 178                      |
| 18 kip Equivalent P 2.5        | 146                      | 170                      | 170                      |
| Design Speed (mph)             | 45                       | 50                       | 50                       |
| Functional Class:              | Local Road               | Minor Arterial           | Major Urban Collector    |

### LAYOUT SCALE



|                   |   |
|-------------------|---|
| PROJECT LOCATION: | INTERSECTION OF ROUTE 1 AND DURHAM RD.                                  |
| PROGRAM AREA:     | HIGHWAY PROGRAM   |
| SCOPE OF WORK:    | REALIGNMENT OF DURHAM RD. AND SIGHT DISTANCE IMPROVEMENTS ALONG ROUTE 1 |

|  |         |
|--|---------|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION | DATE    |
| APPROVED                                       | 3/23/12 |
| COMMISSIONER                                   | 3-22-12 |
| CHIEF ENGINEER                                 |         |

|  |      |
|--|------|
| STATE OF MAINE<br>Cumberland County<br>Professional Engineer | DATE |
| 3/22/12  |      |

|         |                 |                     |            |                  |            |                         |
|---------|-----------------|---------------------|------------|------------------|------------|-------------------------|
| PROGRAM | PROJECT MANAGER | DESIGNER            | CONSULTANT | PROJECT RESIDENT | CONTRACTOR | PROJECT COMPLETION DATE |
| HIGHWAY | P. MACDONALD    | J. FRENCH E.I. 5262 |            |                  |            |                         |

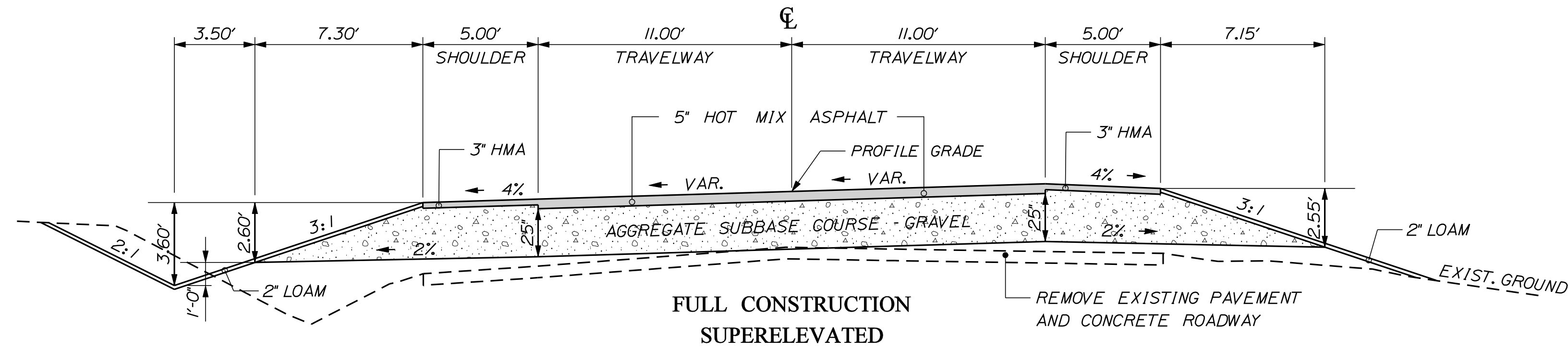
BRUNSWICK  
US RTE. 1 \ DURHAM RD.  
**TITLE SHEET**

SHEET NUMBER  
**1**  
OF 39

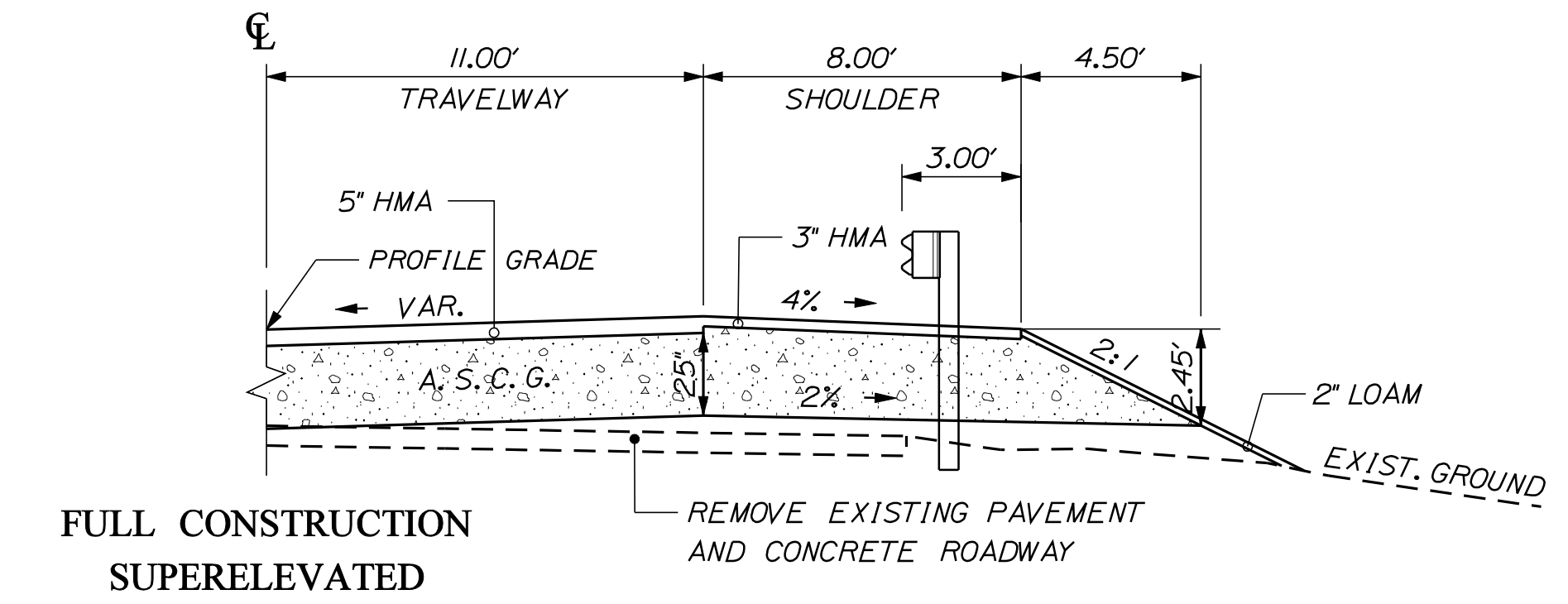
WIN 17241.00 STP-1724(100)X

Date: 3/20/2012  
Username: bt.tran  
Division: HIGHWAY  
Filename: ... \000\HIGHWAY\MSTA\001\_L\_Title.dgn

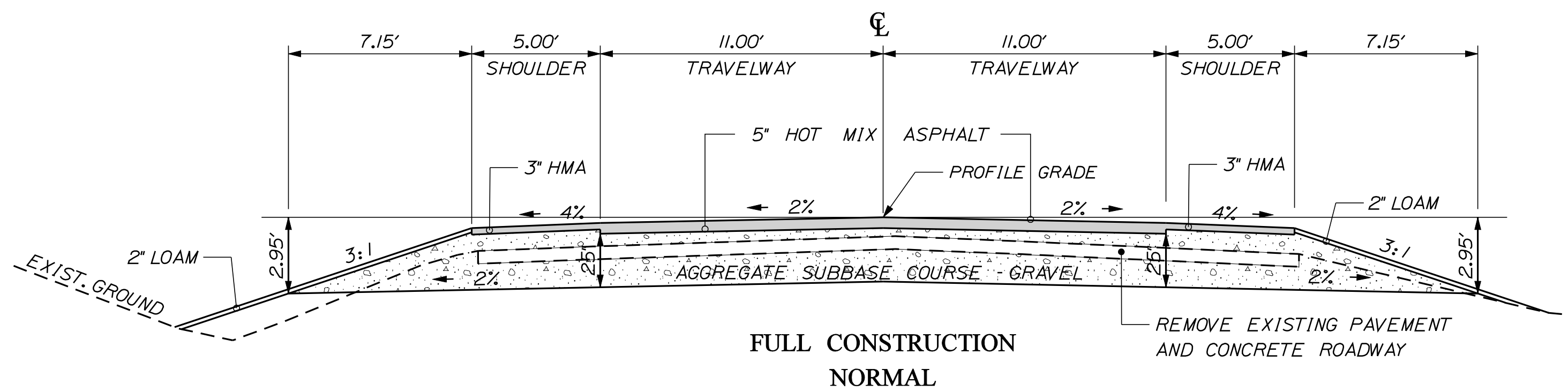
# U.S. ROUTE 1



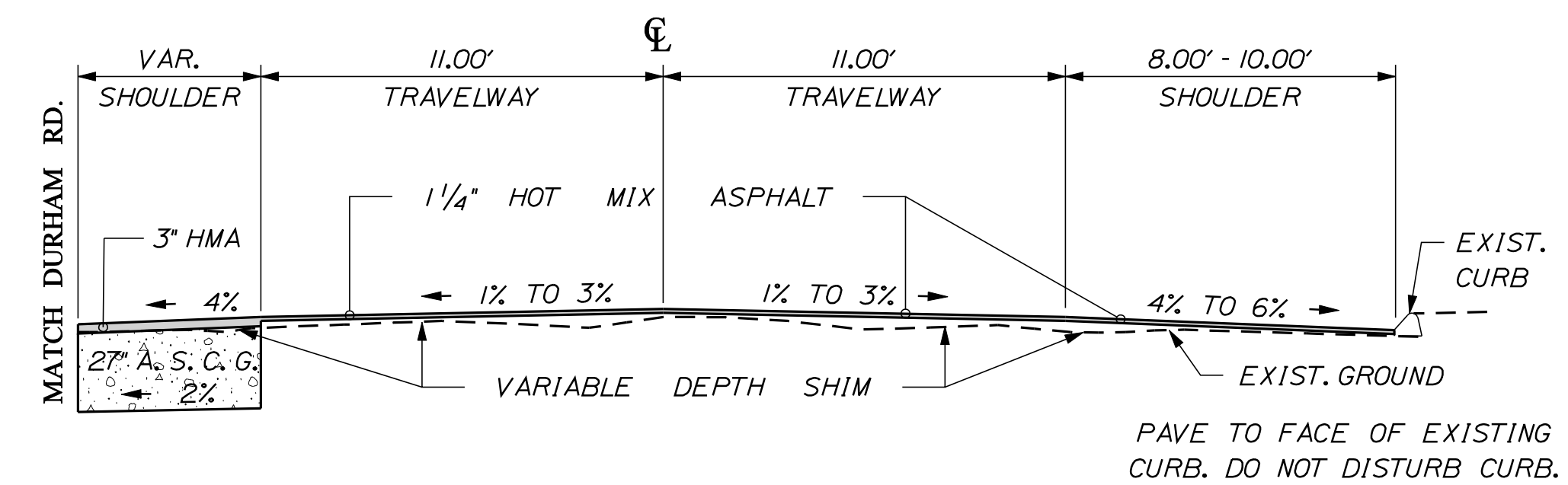
|  |   |  |
|--|---|--|
| <b>5' DITCH SHOULDER LT.</b><br>25" A. S. C. G. = 72.02 CY/100LF | <b>11'- 11' TRAVEL LANES</b><br>25" A. S. C. G. = 169.75 CY/100LF | <b>5' SHOULDER RT.</b><br>25" A. S. C. G. = 70.22 CY/100LF |
| STATION TO STATION   | STATION TO STATION  | STATION TO STATION   |
| 18+25 TO 22+50   | 18+25 TO 24+50  | 18+25 TO 24+50   |



|   |  |
|---|--|
| <b>11'- 11' TRAVEL LANES</b><br>25" A. S. C. G. = 169.75 CY/100LF | <b>5' GUARDRAIL SHOULDER RT.</b><br>25" A. S. C. G. = 82.52 CY/100LF |
| STATION TO STATION  | STATION TO STATION   |
| 18+25 TO 24+50  | 18+25 TO 24+50   |



|  |   |  |
|--|---|--|
| <b>5' SHOULDER LT.</b><br>25" A. S. C. G. = 70.22 CY/100LF | <b>11'- 11' TRAVEL LANES</b><br>25" A. S. C. G. = 169.75 CY/100LF | <b>5' SHOULDER RT.</b><br>25" A. S. C. G. = 70.22 CY/100LF |
| STATION TO STATION   | STATION TO STATION  | STATION TO STATION   |
| 24+50 TO 26+75   | 24+50 TO 26+75  | 24+50 TO 26+75   |



**OVERLAY WITH SHOULDER RECONSTRUCTION  
(VARIABLE DEPTH SHIM)**

|   |
|---|
| <b>SHOULDER RT.</b><br>27" A. S. C. G. = 8.33 CY/100 LF/FT OF WIDTH |
| STATION TO STATION  |
| 16+50 TO 18+25  |

| SH LT % | TW LT % | STA.  | TW RT % | SH RT % |
|---------|---------|-------|---------|---------|
| -4.0    | -2.5    | 18+25 | 0.0     | -4.0    |
| -4.0    | -2.7    | 18+50 | 0.7     | -4.0    |
| -4.0    | -2.9    | 18+75 | 1.4     | -4.0    |
| -4.0    | -3.1    | 19+00 | 2.1     | -4.0    |
| -4.0    | -3.2    | 19+25 | 2.7     | -4.0    |
| -4.0    | -3.4    | 19+50 | 3.4     | -4.0    |
|         |         | TO    |         |         |
| -4.0    | -3.4    | 22+50 | 3.4     | -4.0    |
| -4.0    | -3.2    | 22+75 | 2.7     | -4.0    |
| -4.0    | -3.1    | 23+00 | 2.1     | -4.0    |
| -4.0    | -2.9    | 23+25 | 1.4     | -4.0    |
| -4.0    | -2.7    | 23+50 | 0.7     | -4.0    |
| -4.0    | -2.5    | 23+75 | 0.0     | -4.0    |
| -4.0    | -2.4    | 24+00 | -0.7    | -4.0    |
| -4.0    | -2.2    | 24+25 | -1.3    | -4.0    |
| -4.0    | -2.0    | 24+50 | -2.0    | -4.0    |
|         |         | TO    |         |         |
| -4.0    | -2.0    | 26+75 | -2.0    | -4.0    |

**NOTES:**

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVELWAY.
3. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
4. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 2" LOAM DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.
5. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVELWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.
6. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
7. REMOVING EXISTING PAVEMENT WILL BE PAID AS ITEM# 203.20  
REMOVING EXISTING CONCRETE ROADWAY WILL BE PAID AS ITEM# 202.11

NOT TO SCALE

|  |                  |                  |               |
|--|------------------|------------------|---------------|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION | STP-1724(100)X   | WIN<br>17241.00  | HIGHWAY PLANS |
|  |                  |                  |               |
| BRUNSWICK<br>U.S. ROUTE 1                      | PROJ. MANAGER    | DATE             | SIGNATURE     |
|  | DESIGN-DETAILED  | JUN 2011         |               |
|  | CHECKED-REVIEWED |                  |               |
|  | DESIGN-DETAILED  |                  |               |
|  | REVISIONS 1      |                  | P.E. NUMBER   |
|  | REVISIONS 2      |                  | DATE          |
|  | REVISIONS 3      |                  |               |
|  | REVISIONS 4      |                  |               |
|  | FIELD CHANGES    |                  |               |
| SHEET NUMBER                                   |                  | TYPICAL SECTIONS |               |
| 2  |                  |                  |               |
|  |                  | OF 39            |               |

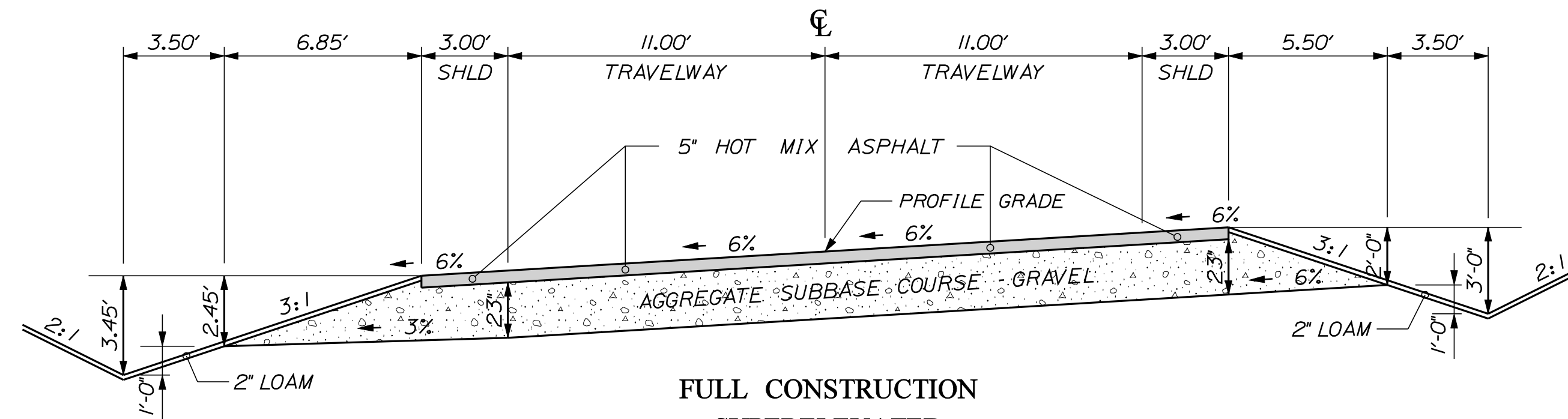
Date: 3/28/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \msto\002\_Typical01.dgn

# DURHAM ROAD



FULL CONSTRUCTION  
SUPERELEVATED  
REALIGNMENT

| 3' DITCH SHOULDER LT.<br>23°A. S. C. G. = 47.12 CY/100LF | 11' - 11' TRAVEL LANES<br>23°A. S. C. G. = 156.17 CY/100LF | 3' DITCH SHOULDER RT.<br>23°A. S. C. G. = 22.10 CY/100LF |
|--|--|--|
| STATION TO STATION                                       | STATION TO STATION   | STATION TO STATION                                       |
| 32+50 TO 39+10   | 32+50 TO 39+10   | 32+50 TO 39+10   |

| SUPERELEVATION TABLE |       |         |
|----------------------|-------|---------|
| TW LT %              | STA.  | TW RT % |
| -4.7                 | 32+50 | -2.2    |
| -4.9                 | 32+75 | -1.2    |
| -5.0                 | 33+00 | -0.2    |
| -5.2                 | 33+25 | 0.9     |
| -5.4                 | 33+50 | 1.9     |
| -5.5                 | 33+75 | 2.9     |
| -5.7                 | 34+00 | 4.0     |
| -5.8                 | 34+25 | 5.0     |
| -6.0                 | 34+50 | 6.0     |
|                      | TO    |         |
| -6.0                 | 35+50 | 6.0     |
| -5.7                 | 35+75 | 5.7     |
| -5.4                 | 36+00 | 5.4     |
| -5.1                 | 36+25 | 5.1     |
| -4.9                 | 36+50 | 4.9     |
| -4.6                 | 36+75 | 4.6     |
| -4.3                 | 37+00 | 4.3     |
| -4.0                 | 37+25 | 4.0     |
| -3.7                 | 37+50 | 3.7     |
| -3.4                 | 37+75 | 3.4     |
| -3.1                 | 38+00 | 3.1     |
| -2.9                 | 38+25 | 2.9     |
| -2.6                 | 38+50 | 2.6     |
| -2.3                 | 38+75 | 2.3     |
| -2.0                 | 39+00 | 2.0     |
|                      | TO    |         |
| MATCH                | 39+28 | MATCH   |

**NOTES:**

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVELWAY.
3. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
4. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 2" LOAM DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.
5. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER             | BY      | DATE     | SIGNATURE | P.E. NUMBER | DATE |
|---------------------------|---------|----------|-----------|-------------|------|
| DESIGN DETAILED J. FRENCH | BT TRAN | JUN 2011 |           |             |      |
| CHECKED/REVIEWED          |         |          |           |             |      |
| DESIGNS DETAILED          |         |          |           |             |      |
| REVISIONS 1               |         |          |           |             |      |
| REVISIONS 2               |         |          |           |             |      |
| REVISIONS 3               |         |          |           |             |      |
| REVISIONS 4               |         |          |           |             |      |
| FIELD CHANGES             |         |          |           |             |      |

BRUNSWICK  
DURHAM ROAD  
TYPICAL SECTIONS

SHEET NUMBER  
**3**  
OF 39

NOT TO SCALE

| ESTIMATED QUANTITIES |   |          |      |
|----------------------|---|----------|------|
| ITEM NO.             | DESCRIPTION   | QUANTITY | UNIT |
| 201.11               | CLEARING  | 1        | AC   |
| 201.23               | REMOVING SINGLE TREE TOP ONLY                               | 4        | EA   |
| 201.24               | REMOVING STUMP  | 4        | EA   |
| 202.11               | REMOVING PORTLAND CEMENT CONCRETE PAVEMENT                  | 1890     | SY   |
| 202.20               | REMOVING BITUMINOUS CONCRETE PAVEMENT                       | 500      | SY   |
| 203.20               | COMMON EXCAVATION   | 4920     | CY   |
| 202.203              | PAVEMENT BUTT JOINTS  | 765      | SY   |
| 203.21               | ROCK EXCAVATION   | 850      | CY   |
| 304.10               | AGGREGATE SUBBASE COURSE - GRAVEL                           | 4745     | CY   |
| 403.209              | HOT MIX ASPHALT 9.5 MM HMA (SIDEWALKS, DRIVES, INCIDENTALS) | 40       | T    |
| 403.210              | HOT MIX ASPHALT 9.5 MM HMA                                  | 430      | T    |
| 403.211              | HOT MIX ASPHALT (SHIMMING)                                  | 45       | T    |
| 403.213              | HOT MIX ASPHALT 12.5 MM BASE                                | 1010     | T    |
| 409.15               | BITUMINOUS TACK COAT - APPLIED                              | 300      | G    |
| 603.19               | 24 INCH CULVERT PIPE OPTION 1                               | 235      | LF   |
| 604.182              | CLEAN EXISTING CATCH BASIN AND MANHOLE                      | 1        | EA   |
| 606.23               | GUARDRAIL TYPE 3C - SINGLE RAIL                             | 75       | LF   |
| 606.232              | GUARDRAIL TYPE 3C - OVER 15 FOOT RADIUS                     | 37.5     | LF   |
| 606.353              | REFLECTORIZED FLEXIBLE GUARDRAIL MARKER                     | 2        | EA   |
| 606.79               | GUARDRAIL 350 FLARED TERMINAL                               | 1        | EA   |
| 615.07               | LOAM  | 540      | CY   |
| 613.319              | EROSION CONTROL BLANKET                                     | 628      | SY   |
| 618.1301             | SEEDING METHOD NUMBER 1 - PLAN QUANTITY                     | 24       | UN   |
| 618.1401             | SEEDING METHOD NUMBER 2 - PLAN QUANTITY                     | 40       | UN   |
| 619.12               | MULCH   | 64       | UN   |
| 627.76               | TEMPORARY PYMT. MARK LINE, W OR YELLOW                      | 1        | LS   |
| 629.05               | HAND LABOR, STRAIGHT TIME                                   | 20       | HR   |
| 631.111              | TRACTOR MOUNTED HYDRUALIC HAMMER                            | 10       | HR   |
| 631.120              | HEAVY DUTY A.P.E.W/HYDRAULIC THUMB (INC OPERATOR)           | 10       | HR   |
| 631.172              | TRUCK - LARGE (INCLUDING OPERATOR)                          | 10       | HR   |
| 631.18               | CHAIN SAW RENTAL (INCLUDING OPERATOR)                       | 10       | HR   |
| 631.20               | STUMP CHIPPER (INCLUDING OPERATOR)                          | 10       | HR   |
| 631.21               | ROAD BROOM (INCLUDING OPERATORS AND HAULER)                 | 10       | HR   |
| 631.32               | CULVERT CLEANER (INCLUDING OPERATOR)                        | 10       | HR   |
| 639.19               | FIELD OFFICE TYPE B   | 1        | EA   |
| 652.34               | CONE  | 60       | EA   |
| 652.33               | DRUM  | 15       | EA   |
| 652.35               | CONSTRUCTION SIGNS  | 760      | SF   |
| 652.36               | MAINTENANCE OF TRAFFIC CONTROL DEVICES                      | 100      | CD   |
| 652.38               | FLAGGER   | 3000     | HR   |
| 656.75               | TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL          | 1        | LS   |
| 659.10               | MOBILIZATION  | 1        | LS   |

EARTHWORK SUMMARY

COMMON EXCAVATION FOR ESTIMATE

|   |       |       |
|---|-------|-------|
| COMMON EXCAVATION (FROM CROSS SECTIONS) | 4,320 |       |
| GRUBBING IN FILL                        | 405   |       |
| PAVEMENT SALVAGE IN FILL                | 195   |       |
| TOTAL COMMON EXCAVATION                 |       | 4,920 |

FILL FOR BORROW CALCULATIONS

|  |     |       |
|--|-----|-------|
| COMMON FILL (FROM CROSS SECTIONS)        | 976 |       |
| GRUBBING IN FILL                         | 405 |       |
| PORTLAND CEMENT CONCRETE REMOVAL IN FILL | 173 |       |
| PAVEMENT SALVAGE IN FILL                 | 195 |       |
| TOTAL FILL                               |     | 1,749 |

ROCK EXCAVATION FOR ESTIMATE

|                                       |     |     |
|---------------------------------------|-----|-----|
| ROCK EXCAVATION (FROM CROSS SECTIONS) | 850 |     |
| TOTAL ROCK EXCAVATION                 |     | 850 |

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

|   |     |       |
|---|-----|-------|
| (1) TOTAL COMMON EXCAVATION                                   |     | 4,920 |
| DEDUCTIONS:   |     |       |
| GRUBBING IN FILL  | 405 |       |
| PAVEMENT SALVAGE (CUT & FILL)                                 | 730 |       |
| (2) TOTAL DEDUCTIONS  |     | 1,135 |
| TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)               |     | 3,785 |
| TOTAL AVAILABLE STRUCT. EXCAVATIONS (USUALLY UNDERDRAIN ONLY) |     | 0     |
| TOTAL AVAILABLE NON-ROCK EXCAVATION                           |     | 3,785 |

COMPUTATION OF WASTE STORAGE & WASTE MATERIAL

|   |     |     |
|---|-----|-----|
| TOTAL AVAIL. WASTE STORAGE AREA (FROM CROSS SECTIONS)   |     | 0   |
| GRUBBING IN FILL  | 405 |     |
| TOTAL WASTE MATERIAL TO BE UTILIZED (LOWER OF TOTAL AVAILABLE WASTE STORAGE AREA OR TOTAL WASTE MATERIAL) |     | 0   |
| TOTAL WASTE MATERIAL TO BE WASTED (TOTAL WASTE MATERIAL MINUS TOTAL WASTE MATERIAL TO BE UTILIZED)        |     | 405 |

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

|                                     |                |       |
|-------------------------------------|----------------|-------|
| (3) TOTAL FILL                      |                | 1,749 |
| TOTAL AVAIL. NON-ROCK EXCAV.        | 3,785 x 0.85 = | 3,217 |
| TOTAL AVAIL. ROCK EXCAV.            | 850 x 1.33 =   | 1,131 |
| TOTAL AVAIL. STR. ROCK EXCAV.       | 0 x 1.33 =     | 0     |
| TOTAL WASTE MATERIAL TO BE UTILIZED | 0 x 1 =        | 0     |
| (4) TOTAL AVAILABLE EXCAVATION      |                | 4,348 |

|  |  |       |
|--|--|-------|
| SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL, PLUS TOTAL WASTE MATERIAL TO BE WASTED |  | 3,004 |
| <b>SURPLUS MATERIAL = 3004 CY</b>  |  |       |

|   |                                  |   |
|---|----------------------------------|---|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION<br><b>STP-1724(100)X</b><br>WIN<br>17241.00<br>HIGHWAY PLANS | SIGNATURE<br>P.E. NUMBER<br>DATE | BRUNSWICK<br>US RTE. 1 \ DURHAM RD.<br>ESTIMATED QUANTITIES |
| SHEET NUMBER  |                                  | 4   |
|   |                                  | OF 39   |



GENERAL NOTES

1. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS OTHERWISE NOTED.
2. ALL JOINTS BETWEEN EXISTING AND PROPOSED HOT BITUMINOUS PAVEMENT SHALL BE BUTTED. PAYMENT SHALL BE MADE UNDER ITEM 202.203 PAVEMENT BUTT JOINT.
3. CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.
4. STUMPS HAVE BEEN ESTIMATED TO BE REMOVED UNDER ITEM 201.24 REMOVE STUMP.
5. GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE CROSS SECTIONS AND THE QUANTITIES NOTED. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT. ESTIMATED GRUBBING DEPTHS ARE 12 INCHES IN FIELD AREAS AND 6 INCHES IN WOODED AREAS.
6. WHERE DEEMED NECESSARY BY THE RESIDENT, UNSUITABLE EXCESS MATERIAL SHALL BE REMOVED FROM THE EDGES OF SHOULDERS AND PLACED IN DESIGNATED AREAS OR DISPOSED OF. PAYMENT WILL BE MADE UNDER THE APPROPRIATE CONTRACT ITEMS.
7. THE CONTRACTOR SHALL PLAN AND CONDUCT THEIR WORK ACCORDINGLY SO THAT UPON FINAL COMPLETION OF THE PROJECT THERE IS NO DROP-OFF FROM THE EDGE OF SHOULDER PAVEMENT.
8. DRIVEWAY FILL SIDE SLOPES SHALL BE THE SAME AS THE NON-GUARDRAIL FILL SLOPES UNLESS OTHERWISE NOTED ON THE PLANS.
9. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN WASTE AREAS APPROVED BY THE RESIDENT.
10. REQUIRED DITCH PROTECTION SHOWN ON THE PLANS OR IN THE CONSTRUCTION NOTES IS FOR ESTIMATING PURPOSES ONLY. THE ACTUAL TYPE AND LOCATION OF DITCH PROTECTION MAY BE ALTERED BY THE RESIDENT.
11. A 3' PAVED LIP SHALL BE PLACED AT ALL GRAVEL ENTRANCES UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.
12. ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING SHALL BE INCIDENTAL TO THE RELATED PAVING ITEMS.
13. PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 2" HOT MIX ASPHALT AND 12" AGGREGATE SUBBASE COURSE GRAVEL. GRAVEL ENTRANCES SHALL BE CONSTRUCTED WITH 14" OF AGGREGATE SUBBASE COURSE GRAVEL
14. SHOULDER SHIM SHALL TAPER TO 0 INCHES PRIOR TO FACE OF EXISTING CURB AND GUARDRAIL.\*
15. WHEN THE SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE SHOULDER PAVEMENT WILL HAVE SAME SLOPE AS TRAVELED WAY.
16. THE FOLLOWING SHALL BE INCIDENTAL TO THE 603 ITEM(S):
  - ANY CUTTING OF EXISTING CULVERTS AND OR CONNECTORS NECESSARY TO INSTALL NEW CULVERT REPLACEMENTS OR EXTENSIONS
  - ALL PIPE EXCAVATION INCLUDING ANY CUTTING AND REMOVAL OF PAVEMENT
  - ALL DITCHING AT PIPE ENDS
  - FURNISHING, PLACING, GRADING, AND COMPACTING OF ANY NEW GRAVEL AND/OR FILL MATERIAL INCLUDING GRANULAR BORROW USED UNDER PIPES AND FOR TEMPORARY DETOURS TO MAINTAIN TRAFFIC DURING PIPE INSTALLATION (EXCAVATION IS ALSO INCIDENTAL).
  - GRANULAR BORROW UNDER THE PIPE SHALL MEET THE REQUIREMENTS FOR UNDERWATER BACKFILL
  - ALL WORK NECESSARY TO CONNECT TO EXISTING PIPES AND DRAINAGE STRUCTURES
  - ANY NECESSARY CLEARING OF BRUSH AND NON-PAY TREES AT CULVERT ENDS
17. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
18. THE CULVERT SIZES SHOWN ON THE PLANS AND CROSS SECTIONS ARE FOR SMOOTHLINED PIPES.
19. GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.
20. ALL EXISTING GUARDRAIL TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
21. TWO REFLECTORIZED FLEXIBLE G.R. MARKERS (ITEM 606.353) WILL BE INSTALLED AT EACH GUARDRAIL END. A DELINEATOR POST (ITEM 606.356) WILL BE INSTALLED AT EACH UNDERDRAIN OUTLET.
22. CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL WILL BE CONSIDERED INCIDENTAL TO ITEM 606.
23. LOAM HAS BEEN ESTIMATED FOR DISTURBED AREAS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.
24. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL OTHER SLOPES.
25. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES IN LAWN AREAS AND 2 INCHES IN ALL OTHER AREAS UNLESS OTHERWISE NOTED OR DIRECTED.
26. ANY BASE PAVEMENT NOT SURFACED BEFORE WINTER WILL REQUIRE TEMPORARY PAVEMENT MARKINGS OF PAINT, BOTH YELLOW CENTERLINE AND WHITE EDGE LINES AND WILL BE CONSIDERED PART OF ITEM 627.76
27. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK; IT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
28. THE CONTRACTOR IS RESPONSIBLE FOR THE CAREFUL SIDE STAKING OF EXISTING CENTERLINE AS PER STANDARD SPECIFICATION 105.6.2. SIDE STAKES SHALL BE PLACED SAFELY OUTSIDE OF THE CONSTRUCTION LIMITS AND THE EXISTING CENTERLINE GRADES SHALL BE TRANSFERRED TO THESE STAKES. THESE STAKES AND GRADES WILL BE USED TO LAYOUT CENTERLINE AND DETERMINE NEW CONSTRUCTION FINISH GRADES FROM DIFFERENTIAL ELEVATION SHEETS FURNISHED BY MAINEDOT. ALL LAYOUT, STAKES, AND GRADES WILL BE CHECKED AND MUST BE ACCEPTABLE TO THE RESIDENT.
29. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
30. ALL COMPUTATION METHODS AND QUANTITIES USED FOR THE ENGINEER'S ESTIMATE FOR PLAN QUANTITY ITEMS ONLY ARE AVAILABLE BY CONTACTING PAUL MACDONALD, PROJECT MANAGER AT 207-624-3330.
31. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION AREAS.
32. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
33. "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.
34. STATIONS REFERENCED ARE APPROXIMATE.
35. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.
36. MAINEDOT WILL FINAL STRIPE THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR TRANSFERRING THE EXISTING STRIPING PATTERN TO THE SURFACE COURSE.
37. EXISTING CULVERTS AND CATCH BASINS WILL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER THE APPROPRIATE PAY ITEMS.
38. PAVEMENT REMOVAL IN AREAS MARKED "LOAM AND SEED" ON THE PLANS WILL BE PAID UNDER ITEM \*202.20

Date: 3/28/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ...msto\006A\_General\_Notes.dgn

|   |                                  |                  |               |   |                                  |
|---|----------------------------------|------------------|---------------|---|----------------------------------|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION<br><b>STP-1724(100)X</b>             | WIN<br>17241.00<br>HIGHWAY PLANS | DATE<br>JUN 2011 | BY<br>BT TRAN | PROJ. MANAGER<br>DESIGN-DETAILED<br>CHECKED-REVIEWED<br>DESIGN-DETAILED<br>DESIGN-DETAILED<br>REVISIONS 1<br>REVISIONS 2<br>REVISIONS 3<br>REVISIONS 4<br>FIELD CHANGES | SIGNATURE<br>P.E. NUMBER<br>DATE |
| BRUNSWICK<br>US RTE. 1 \ DURHAM RD.   |                                  | GENERAL NOTES    |               |   |                                  |
| SHEET NUMBER<br><span style="font-size: 2em; font-weight: bold;">6A</span><br>OF 39 |                                  |                  |               |   |                                  |

CONSTRUCTION NOTES

DRIVES AND ENTRANCES

| STATION  | OFFSET | DESCRIPTION     |
|----------|--------|-----------------|
| 24+17    | LT.    | GRAVEL ENTRANCE |
| 34+65.50 | LT.    | GRAVEL ENTRANCE |
| 37+50    | LT.    | PAVED ENTRANCE  |

GRUBBING IN FILL

| STATION TO STATION | OFFSET |
|--------------------|--------|
| 19+25 TO 19+75     | RT.    |
| 20+75 TO 22+25     | RT.    |
| 21+00 TO 26+50     | LT.    |
| 35+50 TO 36+00     | LT.    |

ITEM 201.11 CLEARING

| STATION TO STATION | OFFSET |
|--------------------|--------|
| 19+96 TO 23+93     | LT.    |
| 21+03 TO 25+00     | RT.    |
| 32+66 TO 33+33     | LT.    |
| 34+92 TO 37+48     | LT.    |
| 37+67 TO 38+05     | LT.    |

ITEM 201.23 REMOVING SINGLE TREE - TOP ONLY

| STATION | OFFSET    | DESCRIPTION | QUANTITY |
|---------|-----------|-------------|----------|
| 33+49   | 40.4' LT. | 12" MAPLE   | 3 EA     |
| 33+88   | 32.1' LT. | 12" ASH     | 1 EA     |

ITEM 201.24 REMOVING STUMP

| STATION | OFFSET    | DESCRIPTION | QUANTITY |
|---------|-----------|-------------|----------|
| 33+49   | 40.4' LT. | 12" MAPLE   | 3 EA     |
| 33+88   | 32.1' LT. | 12" ASH     | 1 EA     |

ITEM 606.23 GR TYPE 3C - SINGLE RAIL

| STATION TO STATION   | OFFSET | LENGTH |
|----------------------|--------|--------|
| 18+29.12 TO 19+04.12 | RT.    | 75 LF  |

ITEM 606.232 GR TYPE 3C - OVER 15' RADIUS

| STATION TO STATION    | OFFSET | LENGTH  |
|-----------------------|--------|---------|
| *18+09.91 TO 18+29.12 | RT.    | 37.5 LF |

\*CONNECT TO EXISTING BRIDGE TRANSITION

ITEM 606.353 REFLECTORIZED FLEXIBLE GR MARKER

| STATION TO STATION   | OFFSET | QUANTITY |
|----------------------|--------|----------|
| 19+04.12 TO 19+41.62 | RT.    | 2 EA     |

ITEM 606.79 GR 350 FLARED TERMINAL

| STATION TO STATION   | OFFSET | QUANTITY |
|----------------------|--------|----------|
| 19+04.12 TO 19+41.62 | RT.    | 1 EA     |

ITEM 613.319 EROSION CONTROL BLANKET

| STATION TO STATION | OFFSET | LENGTH |
|--------------------|--------|--------|
| 18+25 TO 18+50     | RT.    | 25 LF  |
| 32+50 TO 34+33     | LT.    | 180 LF |
| 33+00 TO 34+17     | RT.    | 122 LF |
| 34+80 TO 37+35     | LT.    | 255 LF |
| 36+25 TO 38+59     | RT.    | 240 LF |
| 37+76 TO 22+50     | LT.    | 590 LF |

|   |   |
|---|---|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION<br><b>STP-1724(100)X</b> | WIN<br><b>17241.00</b><br>HIGHWAY PLANS |
| BRUNSWICK<br>US RTE. 1 \ DURHAM RD.<br>CONSTRUCTION NOTES               | SHEET NUMBER<br><b>6B</b><br>OF 39      |

| PROJ. MANAGER    | BY        | DATE     |
|------------------|-----------|----------|
| DESIGN-DETAILED  | J. FRENCH | JUN 2011 |
| CHECKED-REVIEWED | BT TRAN   |          |
| DESIGN-DETAILED  |           |          |
| DESIGN-DETAILED  |           |          |
| REVISIONS 1      |           |          |
| REVISIONS 2      |           |          |
| REVISIONS 3      |           |          |
| REVISIONS 4      |           |          |
| FIELD CHANGES    |           |          |

| SIGNATURE | P.E. NUMBER | DATE |
|-----------|-------------|------|
|           |             |      |

| Maine Department of Transportation   |  | Project Intersection Route 1 and Durham Road<br>Locations Brunswick, Maine  |                      | Boring No.: <u>HB-BRUN-101</u>   |  |
|--|--|---|----------------------|--|--|
| Soil/Block Exploration Log<br>US CUSTOMER UNITS  |  | Elevation (ft.):  |                      | WIN: <u>17241.00</u>   |  |
| Driller: <u>Melndot</u>  | Auger ID/OD: <u>5" Dia.</u>              | Operator: <u>Giguere/Giles/Daggett</u>  | Date: <u>NAVD 88</u> | Sampler: <u>Off Flights</u>  |  |
| Logged By: <u>B. Wilder</u>  | Rig Type: <u>CME 45C</u>                 | Hammer Wt./Fall: <u>N/A</u>   |                      |  |  |
| Date Start/Finish: <u>7/26/10-7/26/10</u>  | Drilling Method: <u>Solid Stem Auger</u> | Core Barrel: <u>N/A</u>   |                      |  |  |
| Boring Location: <u>1442, 3.8 Ft.</u>  | Casing ID/OD: <u>N/A</u>                 | Water Level: <u>None Observed</u>   |                      |  |  |
| <b>Definitions:</b><br>S = Split Spoon Sample<br>U = Unsuccessful Split Spoon Sample attempt<br>L = Thin Wall Tube Sample<br>P = Rock Core Sample<br>V = In Situ Vane Shear Test<br>SSA = Solid Stem Auger |  | <b>Definitions:</b><br>Su = In Situ Field Vane Shear Strength (psf)<br>Tu = Pocket Torque Shear Strength (psf)<br>Cu = Uncoupled Compressive Strength (psf)<br>C = Consolidation Test<br>W = Water Content, percent<br>LL = Liquid Limit<br>PL = Plasticity Limit<br>PI = Plasticity Index<br>C = Grain Size Analysis |                      | <b>Definitions:</b><br>S = Split Spoon Sample<br>U = Unsuccessful Split Spoon Sample attempt<br>L = Thin Wall Tube Sample<br>P = Rock Core Sample<br>V = In Situ Vane Shear Test<br>SSA = Solid Stem Auger |  |
| <b>Sample Information</b><br>Sample No.   Rev./Spec.   In.   Sample Depth (ft.)   Blows 1/6 in. Strength (lb/ft <sup>2</sup> ) or 100 (lb)   Penetration   Casing   Elevation (ft.)   Graphic Log          |  | <b>Visual Description and Remarks</b><br>0-0.70: PAVEMENT. Light brown, damp, gravelly, fine to coarse SAND, trace silt.  |                      | Laboratory Testing Results/ASHTO and Unified Class   |  |
| 0.70 - 3.40: S2   3.40 - 5.00: S2  |  | 3.40 - 5.00: Grey, moist, clay-SILT, trace fine sand.   |                      | Bottom of Exploration at 5.00 feet below ground surface. NO REFUSAL  |  |
| Stratification lines represent approximate boundaries between soil types; transitions may be gradual.  |  |   |                      |  |  |
| * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.              |  |   |                      |  |  |
| Page 1 of 1<br>Boring No.: HB-BRUN-101   |  |   |                      |  |  |

| Maine Department of Transportation   |  | Project Intersection Route 1 and Durham Road<br>Locations Brunswick, Maine  |                      | Boring No.: <u>HB-BRUN-102</u>   |  |
|--|--|---|----------------------|--|--|
| Soil/Block Exploration Log<br>US CUSTOMER UNITS  |  | Elevation (ft.):  |                      | WIN: <u>17241.00</u>   |  |
| Driller: <u>Melndot</u>  | Auger ID/OD: <u>5" Dia.</u>              | Operator: <u>Giguere/Giles/Daggett</u>  | Date: <u>NAVD 88</u> | Sampler: <u>Off Flights</u>  |  |
| Logged By: <u>B. Wilder</u>  | Rig Type: <u>CME 45C</u>                 | Hammer Wt./Fall: <u>N/A</u>   |                      |  |  |
| Date Start/Finish: <u>7/26/10-7/26/10</u>  | Drilling Method: <u>Solid Stem Auger</u> | Core Barrel: <u>N/A</u>   |                      |  |  |
| Boring Location: <u>1642, 4.0 Ft.</u>  | Casing ID/OD: <u>N/A</u>                 | Water Level: <u>None Observed</u>   |                      |  |  |
| <b>Definitions:</b><br>S = Split Spoon Sample<br>U = Unsuccessful Split Spoon Sample attempt<br>L = Thin Wall Tube Sample<br>P = Rock Core Sample<br>V = In Situ Vane Shear Test<br>SSA = Solid Stem Auger |  | <b>Definitions:</b><br>Su = In Situ Field Vane Shear Strength (psf)<br>Tu = Pocket Torque Shear Strength (psf)<br>Cu = Uncoupled Compressive Strength (psf)<br>C = Consolidation Test<br>W = Water Content, percent<br>LL = Liquid Limit<br>PL = Plasticity Limit<br>PI = Plasticity Index<br>C = Grain Size Analysis |                      | <b>Definitions:</b><br>S = Split Spoon Sample<br>U = Unsuccessful Split Spoon Sample attempt<br>L = Thin Wall Tube Sample<br>P = Rock Core Sample<br>V = In Situ Vane Shear Test<br>SSA = Solid Stem Auger |  |
| <b>Sample Information</b><br>Sample No.   Rev./Spec.   In.   Sample Depth (ft.)   Blows 1/6 in. Strength (lb/ft <sup>2</sup> ) or 100 (lb)   Penetration   Casing   Elevation (ft.)   Graphic Log          |  | <b>Visual Description and Remarks</b><br>0-0.65: PAVEMENT. (0.5' Pavement Core). Light brown, damp, gravelly, fine to coarse SAND, trace silt.  |                      | Laboratory Testing Results/ASHTO and Unified Class   |  |
| 0.65 - 4.00: PC-1  |  | 4.00: Bottom of Exploration at 4.00 feet below ground surface. NO REFUSAL   |                      | Bottom of Exploration at 4.00 feet below ground surface. NO REFUSAL  |  |
| Stratification lines represent approximate boundaries between soil types; transitions may be gradual.  |  |   |                      |  |  |
| * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.              |  |   |                      |  |  |
| Page 1 of 1<br>Boring No.: HB-BRUN-102   |  |   |                      |  |  |

| Maine Department of Transportation   |  | Project Intersection Route 1 and Durham Road<br>Locations Brunswick, Maine  |                      | Boring No.: <u>HB-BRUN-103</u>   |  |
|--|--|---|----------------------|--|--|
| Soil/Block Exploration Log<br>US CUSTOMER UNITS  |  | Elevation (ft.):  |                      | WIN: <u>17241.00</u>   |  |
| Driller: <u>Melndot</u>  | Auger ID/OD: <u>5" Dia.</u>              | Operator: <u>Giguere/Giles/Daggett</u>  | Date: <u>NAVD 88</u> | Sampler: <u>Off Flights</u>  |  |
| Logged By: <u>B. Wilder</u>  | Rig Type: <u>CME 45C</u>                 | Hammer Wt./Fall: <u>N/A</u>   |                      |  |  |
| Date Start/Finish: <u>7/26/10-7/26/10</u>  | Drilling Method: <u>Solid Stem Auger</u> | Core Barrel: <u>N/A</u>   |                      |  |  |
| Boring Location: <u>1872, 3.7 Ft.</u>  | Casing ID/OD: <u>N/A</u>                 | Water Level: <u>None Observed</u>   |                      |  |  |
| <b>Definitions:</b><br>S = Split Spoon Sample<br>U = Unsuccessful Split Spoon Sample attempt<br>L = Thin Wall Tube Sample<br>P = Rock Core Sample<br>V = In Situ Vane Shear Test<br>SSA = Solid Stem Auger |  | <b>Definitions:</b><br>Su = In Situ Field Vane Shear Strength (psf)<br>Tu = Pocket Torque Shear Strength (psf)<br>Cu = Uncoupled Compressive Strength (psf)<br>C = Consolidation Test<br>W = Water Content, percent<br>LL = Liquid Limit<br>PL = Plasticity Limit<br>PI = Plasticity Index<br>C = Grain Size Analysis |                      | <b>Definitions:</b><br>S = Split Spoon Sample<br>U = Unsuccessful Split Spoon Sample attempt<br>L = Thin Wall Tube Sample<br>P = Rock Core Sample<br>V = In Situ Vane Shear Test<br>SSA = Solid Stem Auger |  |
| <b>Sample Information</b><br>Sample No.   Rev./Spec.   In.   Sample Depth (ft.)   Blows 1/6 in. Strength (lb/ft <sup>2</sup> ) or 100 (lb)   Penetration   Casing   Elevation (ft.)   Graphic Log          |  | <b>Visual Description and Remarks</b><br>0-0.65: PAVEMENT. Light brown, damp, fine to coarse SAND, some gravel, trace silt.   |                      | Laboratory Testing Results/ASHTO and Unified Class   |  |
| 0.65 - 3.40: S3  |  | 3.40 - 5.00: S4   |                      | 3.40 - 5.00: Brown, damp, gravelly, fine to coarse SAND, trace silt. NO PAVEMENT. (1.5' ft.)   |  |
| Stratification lines represent approximate boundaries between soil types; transitions may be gradual.  |  |   |                      |  |  |
| * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.              |  |   |                      |  |  |
| Page 1 of 1<br>Boring No.: HB-BRUN-103   |  |   |                      |  |  |

| Maine Department of Transportation   |  | Project Intersection Route 1 and Durham Road<br>Locations Brunswick, Maine  |                      | Boring No.: <u>HB-BRUN-104</u>   |  |
|--|--|---|----------------------|--|--|
| Soil/Block Exploration Log<br>US CUSTOMER UNITS  |  | Elevation (ft.):  |                      | WIN: <u>17241.00</u>   |  |
| Driller: <u>Melndot</u>  | Auger ID/OD: <u>5" Dia.</u>              | Operator: <u>Giguere/Giles/Daggett</u>  | Date: <u>NAVD 88</u> | Sampler: <u>Off Flights</u>  |  |
| Logged By: <u>B. Wilder</u>  | Rig Type: <u>CME 45C</u>                 | Hammer Wt./Fall: <u>N/A</u>   |                      |  |  |
| Date Start/Finish: <u>7/26/10-7/26/10</u>  | Drilling Method: <u>Solid Stem Auger</u> | Core Barrel: <u>N/A</u>   |                      |  |  |
| Boring Location: <u>2042, 3.8 Ft.</u>  | Casing ID/OD: <u>N/A</u>                 | Water Level: <u>None Observed</u>   |                      |  |  |
| <b>Definitions:</b><br>S = Split Spoon Sample<br>U = Unsuccessful Split Spoon Sample attempt<br>L = Thin Wall Tube Sample<br>P = Rock Core Sample<br>V = In Situ Vane Shear Test<br>SSA = Solid Stem Auger |  | <b>Definitions:</b><br>Su = In Situ Field Vane Shear Strength (psf)<br>Tu = Pocket Torque Shear Strength (psf)<br>Cu = Uncoupled Compressive Strength (psf)<br>C = Consolidation Test<br>W = Water Content, percent<br>LL = Liquid Limit<br>PL = Plasticity Limit<br>PI = Plasticity Index<br>C = Grain Size Analysis |                      | <b>Definitions:</b><br>S = Split Spoon Sample<br>U = Unsuccessful Split Spoon Sample attempt<br>L = Thin Wall Tube Sample<br>P = Rock Core Sample<br>V = In Situ Vane Shear Test<br>SSA = Solid Stem Auger |  |
| <b>Sample Information</b><br>Sample No.   Rev./Spec.   In.   Sample Depth (ft.)   Blows 1/6 in. Strength (lb/ft <sup>2</sup> ) or 100 (lb)   Penetration   Casing   Elevation (ft.)   Graphic Log          |  | <b>Visual Description and Remarks</b><br>0-0.55: PAVEMENT. (0.5' Pavement Core). CONCRETE. (0.45' Concrete Core). Light brown, damp, fine to coarse SAND, some gravel, trace silt.  |                      | Laboratory Testing Results/ASHTO and Unified Class   |  |
| 0.55 - 1.00: S5  |  | 1.00 - 2.00: S5   |                      | 2.00 - 5.00: Grey-brown, moist, silty fine to coarse SAND, trace gravel.   |  |
| Stratification lines represent approximate boundaries between soil types; transitions may be gradual.  |  |   |                      |  |  |
| * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.              |  |   |                      |  |  |
| Page 1 of 1<br>Boring No.: HB-BRUN-104   |  |   |                      |  |  |

| Maine Department of Transportation   |  | Project Intersection Route 1 and Durham Road<br>Locations Brunswick, Maine  |                      | Boring No.: <u>HB-BRUN-105</u>   |  |
|--|--|---|----------------------|--|--|
| Soil/Block Exploration Log<br>US CUSTOMER UNITS  |  | Elevation (ft.):  |                      | WIN: <u>17241.00</u>   |  |
| Driller: <u>Melndot</u>  | Auger ID/OD: <u>5" Dia.</u>              | Operator: <u>Giguere/Giles/Daggett</u>  | Date: <u>NAVD 88</u> | Sampler: <u>Off Flights</u>  |  |
| Logged By: <u>B. Wilder</u>  | Rig Type: <u>CME 45C</u>                 | Hammer Wt./Fall: <u>N/A</u>   |                      |  |  |
| Date Start/Finish: <u>7/26/10-7/26/10</u>  | Drilling Method: <u>Solid Stem Auger</u> | Core Barrel: <u>N/A</u>   |                      |  |  |
| Boring Location: <u>2242, 3.4 Ft.</u>  | Casing ID/OD: <u>N/A</u>                 | Water Level: <u>None Observed</u>   |                      |  |  |
| <b>Definitions:</b><br>S = Split Spoon Sample<br>U = Unsuccessful Split Spoon Sample attempt<br>L = Thin Wall Tube Sample<br>P = Rock Core Sample<br>V = In Situ Vane Shear Test<br>SSA = Solid Stem Auger |  | <b>Definitions:</b><br>Su = In Situ Field Vane Shear Strength (psf)<br>Tu = Pocket Torque Shear Strength (psf)<br>Cu = Uncoupled Compressive Strength (psf)<br>C = Consolidation Test<br>W = Water Content, percent<br>LL = Liquid Limit<br>PL = Plasticity Limit<br>PI = Plasticity Index<br>C = Grain Size Analysis |                      | <b>Definitions:</b><br>S = Split Spoon Sample<br>U = Unsuccessful Split Spoon Sample attempt<br>L = Thin Wall Tube Sample<br>P = Rock Core Sample<br>V = In Situ Vane Shear Test<br>SSA = Solid Stem Auger |  |
| <b>Sample Information</b><br>Sample No.   Rev./Spec.   In.   Sample Depth (ft.)   Blows 1/6 in. Strength (lb/ft <sup>2</sup> ) or 100 (lb)   Penetration   Casing   Elevation (ft.)   Graphic Log          |  | <b>Visual Description and Remarks</b><br>0-0.50: PAVEMENT. CONCRETE. (0.45' Concrete Core). Light brown, damp, fine to coarse SAND, some gravel, trace silt.  |                      | Laboratory Testing Results/ASHTO and Unified Class   |  |
| 0.50 - 1.00: S6  |  | 1.00 - 3.20: S7   |                      | 3.20 - 5.00: Grey-brown, damp, silty fine to medium SAND, trace gravel.  |  |
| Stratification lines represent approximate boundaries between soil types; transitions may be gradual.  |  |   |                      |  |  |
| * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.              |  |   |                      |  |  |
| Page 1 of 1<br>Boring No.: HB-BRUN-105   |  |   |                      |  |  |

| Maine Department of Transportation   |  | Project Intersection Route 1 and Durham Road<br>Locations Brunswick, Maine  |                      | Boring No.: <u>HB-BRUN-106</u>   |  |
|--|--|---|----------------------|--|--|
| Soil/Block Exploration Log<br>US CUSTOMER UNITS  |  | Elevation (ft.):  |                      | WIN: <u>17241.00</u>   |  |
| Driller: <u>Melndot</u>  | Auger ID/OD: <u>5" Dia.</u>              | Operator: <u>Giguere/Giles/Daggett</u>  | Date: <u>NAVD 88</u> | Sampler: <u>Off Flights</u>  |  |
| Logged By: <u>B. Wilder</u>  | Rig Type: <u>CME 45C</u>                 | Hammer Wt./Fall: <u>N/A</u>   |                      |  |  |
| Date Start/Finish: <u>7/26/10-7/26/10</u>  | Drilling Method: <u>Solid Stem Auger</u> | Core Barrel: <u>N/A</u>   |                      |  |  |
| Boring Location: <u>2472, 4.5 Ft.</u>  | Casing ID/OD: <u>N/A</u>                 | Water Level: <u>None Observed</u>   |                      |  |  |
| <b>Definitions:</b><br>S = Split Spoon Sample<br>U = Unsuccessful Split Spoon Sample attempt<br>L = Thin Wall Tube Sample<br>P = Rock Core Sample<br>V = In Situ Vane Shear Test<br>SSA = Solid Stem Auger |  | <b>Definitions:</b><br>Su = In Situ Field Vane Shear Strength (psf)<br>Tu = Pocket Torque Shear Strength (psf)<br>Cu = Uncoupled Compressive Strength (psf)<br>C = Consolidation Test<br>W = Water Content, percent<br>LL = Liquid Limit<br>PL = Plasticity Limit<br>PI = Plasticity Index<br>C = Grain Size Analysis |                      | <b>Definitions:</b><br>S = Split Spoon Sample<br>U = Unsuccessful Split Spoon Sample attempt<br>L = Thin Wall Tube Sample<br>P = Rock Core Sample<br>V = In Situ Vane Shear Test<br>SSA = Solid Stem Auger |  |
| <b>Sample Information</b><br>Sample No.   Rev./Spec.   In.   Sample Depth (ft.)   Blows 1/6 in. Strength (lb/ft <sup>2</sup> ) or 100 (lb)   Penetration   Casing   Elevation (ft.)   Graphic Log          |  | <b>Visual Description and Remarks</b><br>0-0.60: PAVEMENT. (0.5' Pavement Core). CONCRETE. (0.45' Concrete Core). Light brown, damp, fine to coarse SAND, some gravel, trace silt.  |                      | Laboratory Testing Results/ASHTO and Unified Class   |  |
| 0.60 - 1.00: PC-3  |  | 1.00 - 3.00: S5   |                      | 3.00 - 5.00: Grey-brown, damp, silty fine to medium SAND, trace gravel.  |  |
| Stratification lines represent approximate boundaries between soil types; transitions may be gradual.  |  |   |                      |  |  |
| * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.              |  |   |                      |  |  |
| Page 1 of 1<br>Boring No.: HB-BRUN-106   |  |   |                      |  |  |

|  |                                  |
|--|----------------------------------|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION<br>STP-1724(100)X   | HIGHWAY PLANS<br>PIN<br>17241.00 |
| PROJECT: BRUNSWICK BRUNSWICK ROAD<br>U.S. ROUTE 1 DURHAM ROAD  | BORING LOGS                      |
| SHEET NUMBER<br>7  | OF 39                            |
| BY: T. WHITE<br>DATE: JAN 2012<br>CHECKED/REVIEWED: K. GROSS<br>DESIGNED/DETAILED: [Blank]<br>REVISIONS: 1 [Blank]<br>REVISIONS: 2 [Blank]<br>REVISIONS: 3 [Blank]<br>REVISIONS: 4 [Blank]<br>FIELD CHANGES: [Blank] | SIGNATURE<br>P.E. NUMBER<br>DATE |

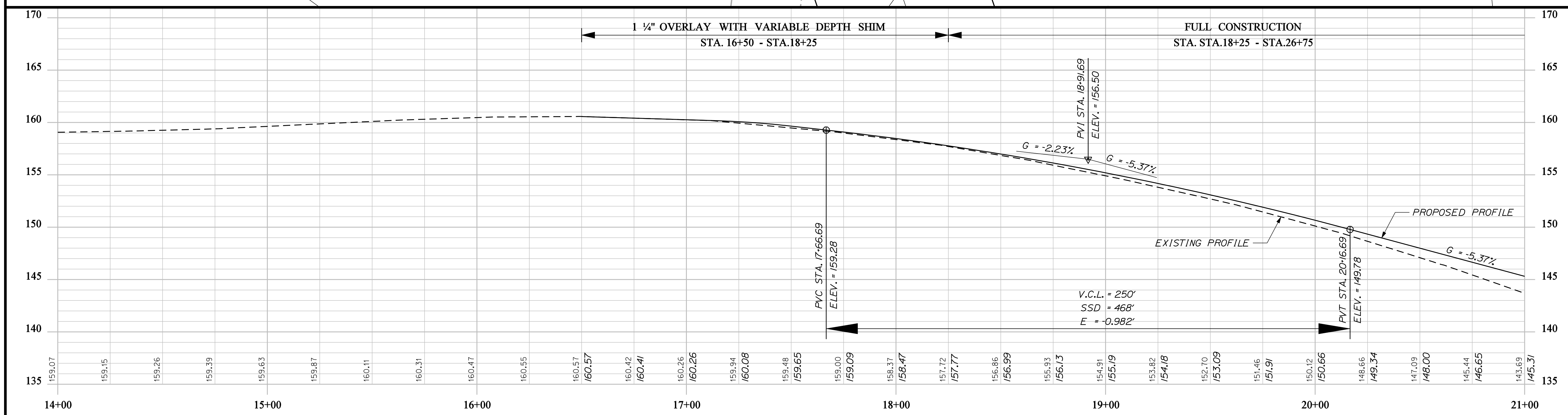
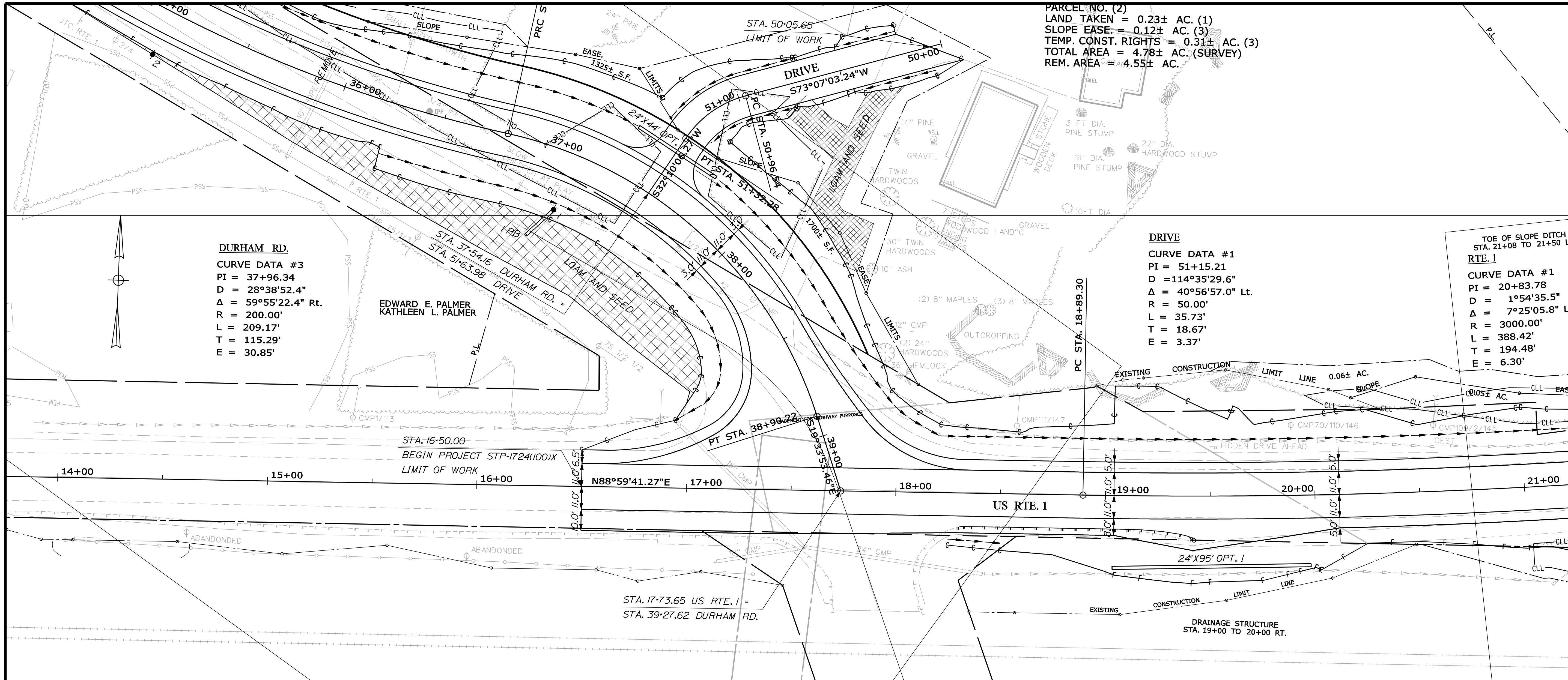


Date: 3/28/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \MSTA\009\_HDPlan\_Profile 01.dgn



STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 STP-1724(100)X  
 WIN  
 17241.00  
 HIGHWAY PLANS

| PROJ. MANAGER     | DATE               |
|-------------------|--------------------|
| BY                |                    |
| CHECKED-REVIEWED  | J. FRENCH JUN 2011 |
| DESIGNED-REVIEWED |                    |
| DESIGNED-DETAILED |                    |
| REVISIONS 1       |                    |
| REVISIONS 2       |                    |
| REVISIONS 3       |                    |
| REVISIONS 4       |                    |
| FIELD CHANGES     |                    |

BRUNSWICK  
 US RTE. 1 \ DURHAM RD.  
 PLANS

SHEET NUMBER  
 9  
 OF 39

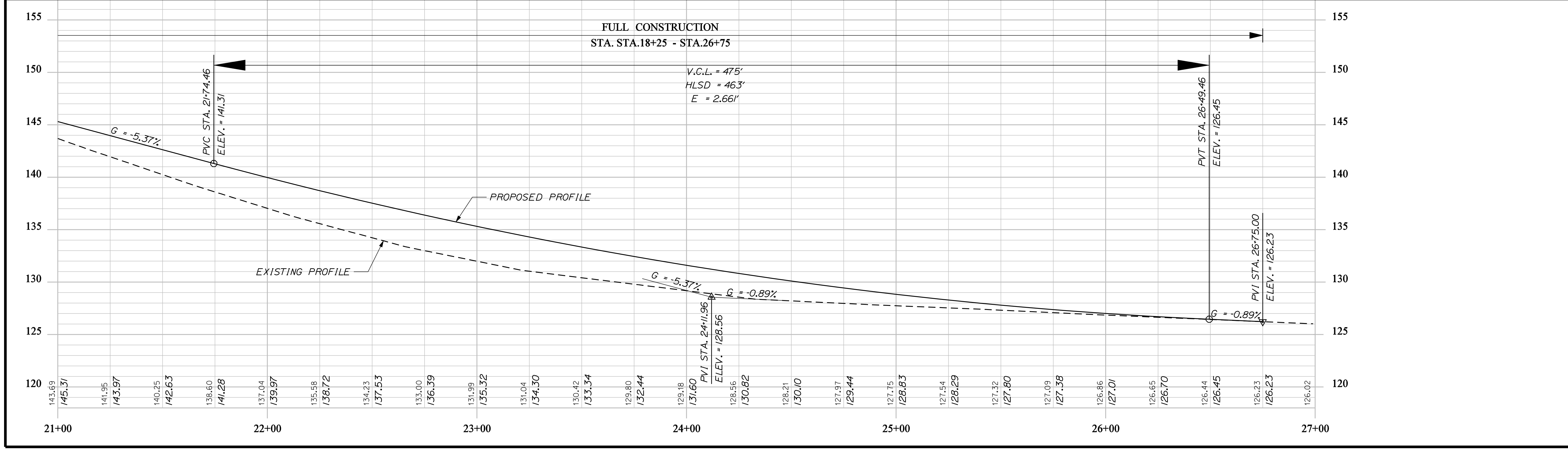
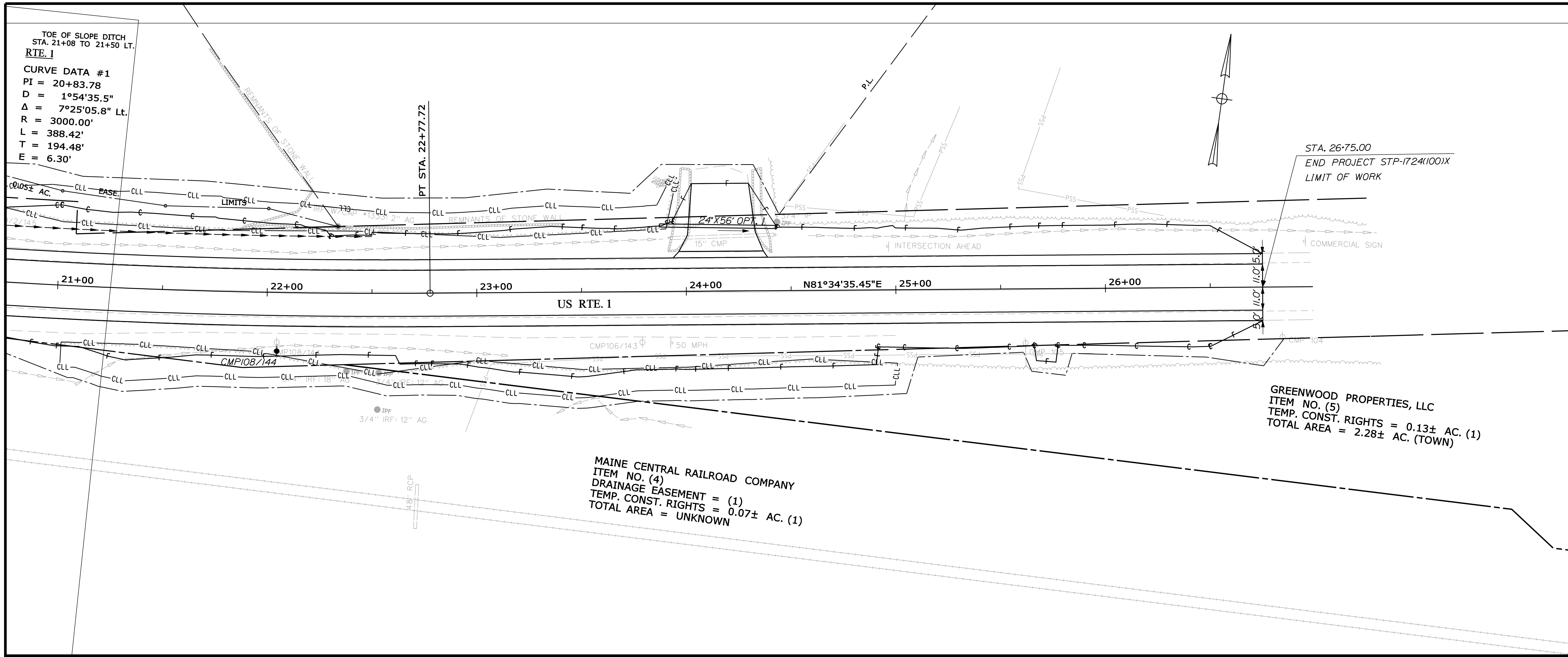
STA. 14+00.00 TO STA. 21+00.00

Date: 3/28/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \MSTA\010\_HDPlan\_Profile 02.dgn



STA. 21+00.00 TO STA. 27+00.00

|                      |           |                              |          |
|----------------------|-----------|------------------------------|----------|
| STATE OF MAINE       |           | DEPARTMENT OF TRANSPORTATION |          |
| STP-1724(100)X       |           | WIN 17241.00                 |          |
| HIGHWAY PLANS        |           |                              |          |
| PROJ. MANAGER        | DATE      | BY                           | DATE     |
| CHECKED-REVIEWED     | J. FRENCH | BT TRAN                      | JUN 2011 |
| DESIGN DETAILED      |           |                              |          |
| DESIGN REVIEWED      |           |                              |          |
| DESIGN DETAILED      |           |                              |          |
| REVISIONS 1          |           |                              |          |
| REVISIONS 2          |           |                              |          |
| REVISIONS 3          |           |                              |          |
| REVISIONS 4          |           |                              |          |
| FIELD CHANGES        |           |                              |          |
| BRUNSWICK            |           | SIGNATURE                    |          |
| US RTE. 1 DURHAM RD. |           | P.E. NUMBER                  |          |
| PLANS                |           | DATE                         |          |
| SHEET NUMBER         |           |                              |          |
| 10                   |           |                              |          |
| OF 39                |           |                              |          |

Date: 3/28/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \011\_HDP\Plan Profile\_Durham.dgn

**DURHAM RD.**

**CURVE DATA #1**  
 PI = 33+37.64  
 D = 4°05'33.2"  
 Δ = 3°39'57.0" Lt.  
 R = 1400.00'  
 L = 89.57'  
 T = 44.80'  
 E = 0.72'

**PARCEL NO. (2)**  
 LAND TAKEN = 0.23± AC. (1)  
 SLOPE EASE = 0.12± AC. (3)  
 TEMP. CONST. RIGHTS = 0.31± AC. (3)  
 TOTAL AREA = 4.78± AC. (SURVEY)  
 REM. AREA = 4.55± AC.

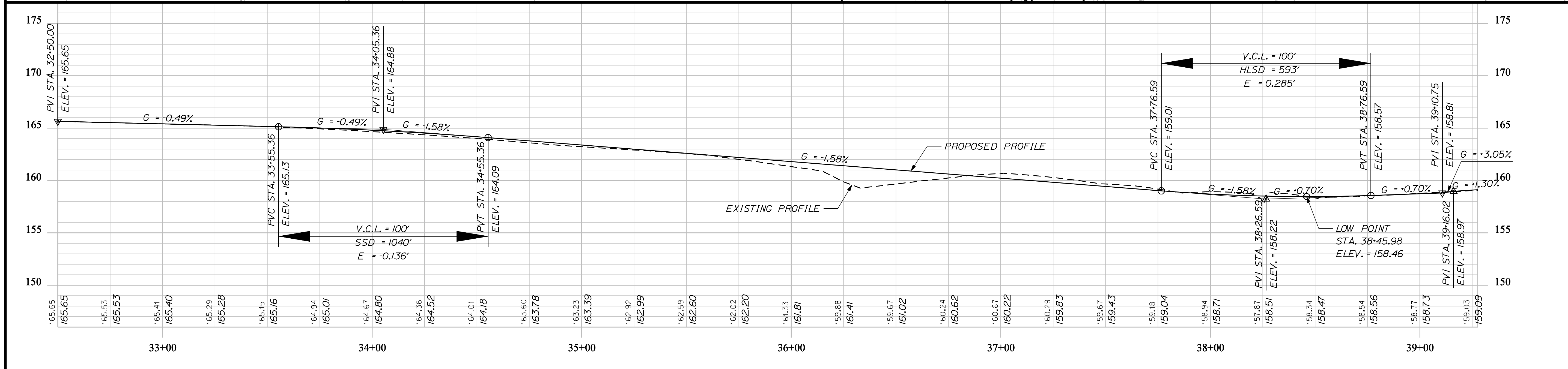
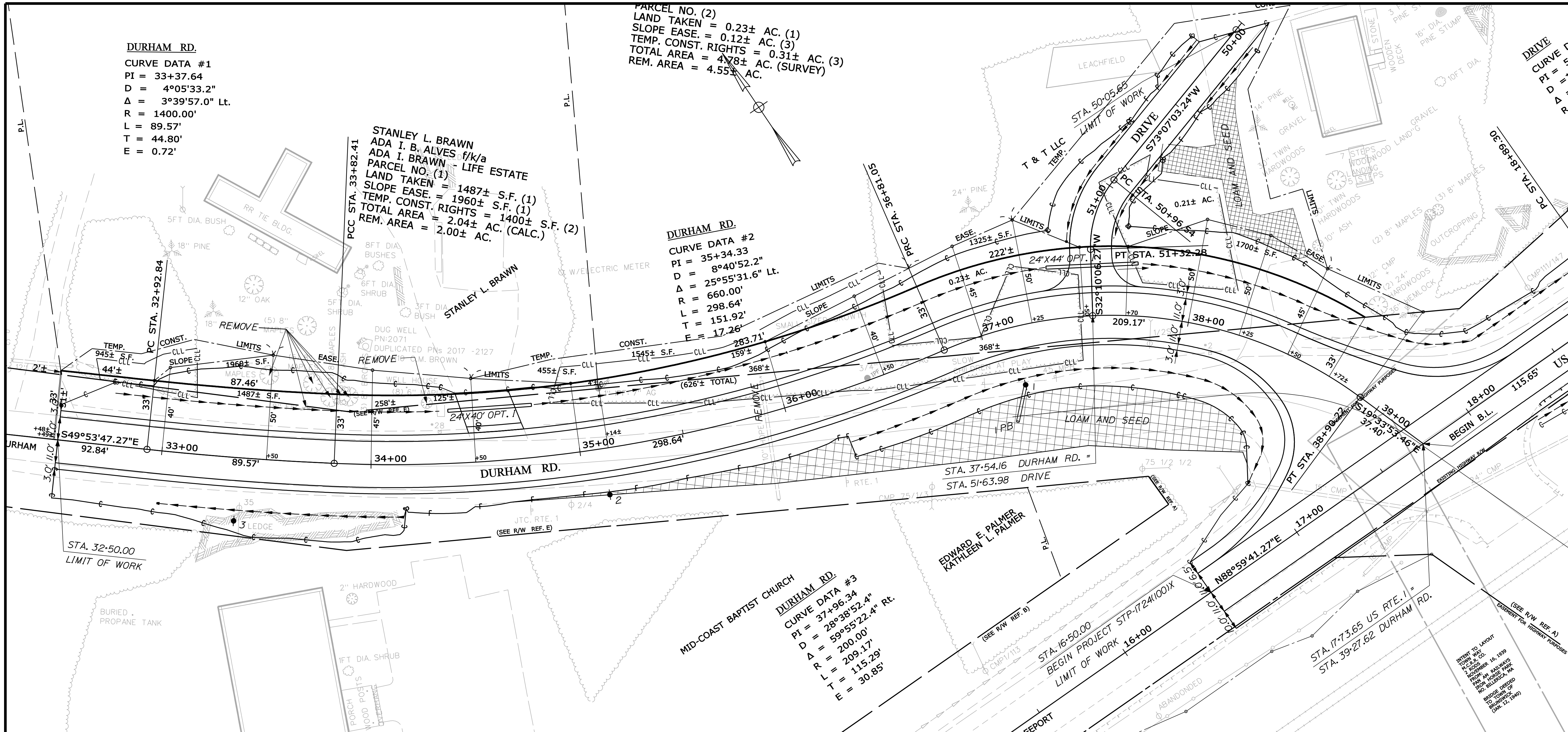
**STANLEY L. BRAUN**  
 ADA I. B. ALVES f/k/a  
 ADA I. BRAUN - LIFE ESTATE  
 PARCEL NO. (1)  
 LAND TAKEN = 1487± S.F. (1)  
 SLOPE EASE = 1960± S.F. (1)  
 TEMP. CONST. RIGHTS = 1400± S.F. (2)  
 TOTAL AREA = 2.04± AC. (CALC.)  
 REM. AREA = 2.00± AC.

**DURHAM RD.**

**CURVE DATA #2**  
 PI = 35+34.33  
 D = 8°40'52.2"  
 Δ = 25°55'31.6" Lt.  
 R = 660.00'  
 L = 298.64'  
 T = 151.92'  
 E = 17.26'

**DURHAM RD.**

**CURVE DATA #3**  
 PI = 37+96.34  
 D = 28°38'52.4" Rt.  
 Δ = 59°55'22.4" Rt.  
 R = 200.00'  
 L = 209.17'  
 T = 115.29'  
 E = 30.85'



STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 STP-1724(100)X

| PROJ. MANAGER     | DATE      | BY | DATE          |
|-------------------|-----------|----|---------------|
| DESIGN DETAILER   | J. FRENCH | BT | TRAN JUN 2011 |
| CHECKED/REVIEWED  |           |    |               |
| DESIGNS DET AILED |           |    |               |
| DESIGNS DET AILED |           |    |               |
| REVISIONS 1       |           |    |               |
| REVISIONS 2       |           |    |               |
| REVISIONS 3       |           |    |               |
| REVISIONS 4       |           |    |               |
| FIELD CHANGES     |           |    |               |

BRUNSWICK  
 US RTE. 1 DURHAM RD.  
 PLANS

SHEET NUMBER  
**11**  
 OF 39

WIN  
 17241.00  
 HIGHWAY PLANS



PROFILE OF DRIVE AT STA. 37+49.93 LT. (DURHAM RD.)

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

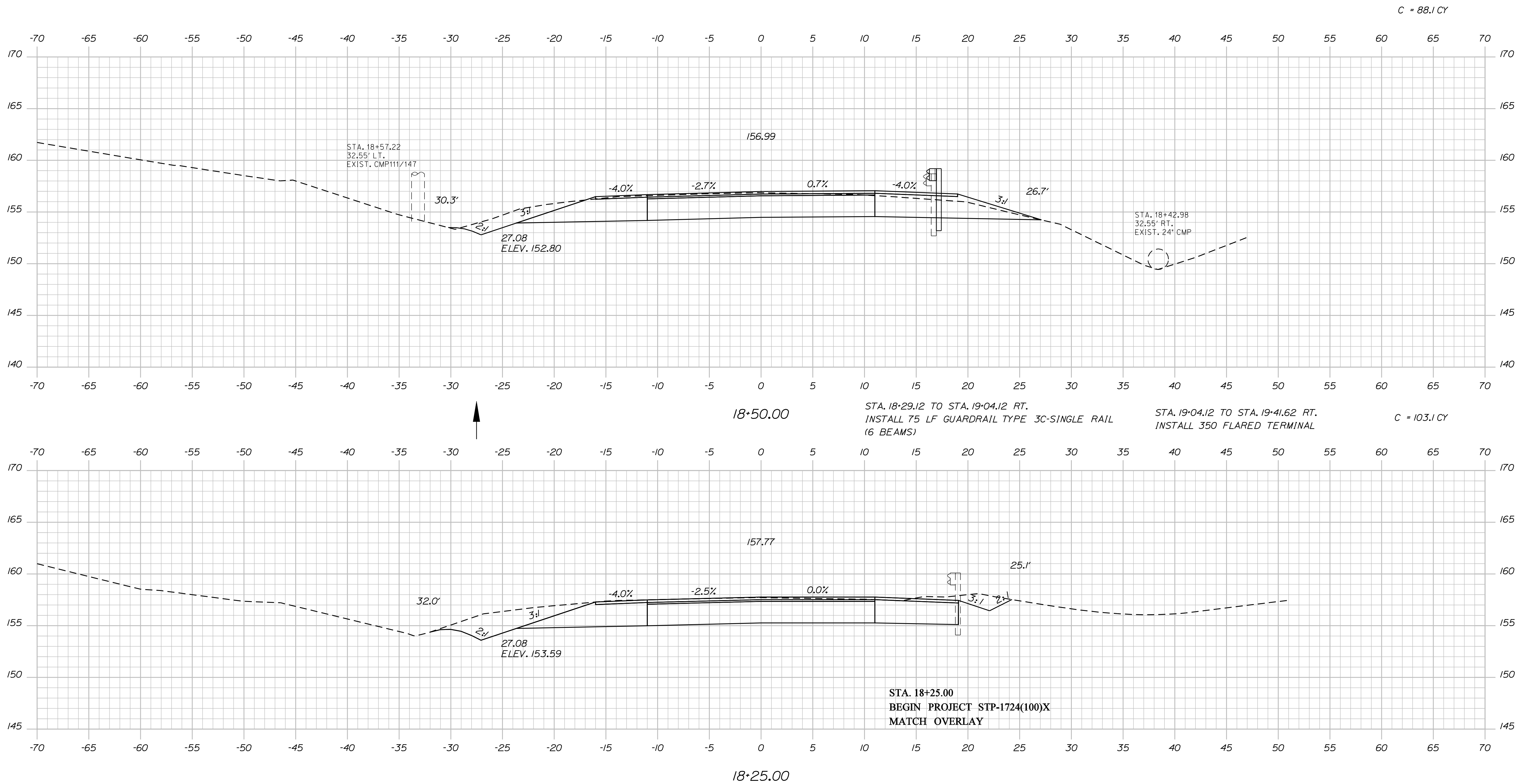
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|---------------------------|---------|-------------|
| DESIGN DETAILED J. FRENCH | BT TRAN | JUN 2011    |
| CHECKED-REVIEWED          |         | SIGNATURE   |
| DESIGN DETAILED           |         | P.E. NUMBER |
| REVISIONS 1               |         | DATE        |
| REVISIONS 2               |         |             |
| REVISIONS 3               |         |             |
| REVISIONS 4               |         |             |
| FIELD CHANGES             |         |             |

BRUNSWICK  
US RTE. 1 \ DURHAM RD.  
PROFILE

SHEET NUMBER

12

OF 39



STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 STP-1724(100)X  
 WIN  
 17241.00  
 HIGHWAY PLANS

| PROJ. MANAGER   | DATE   | BY                          | DATE | SIGNATURE |
|---|--|-----------------------------|------|-----------|
| J. FRENCH <td>JUN 2011 <td>BT TRAN <td></td> <td></td> </td></td> | JUN 2011 <td>BT TRAN <td></td> <td></td> </td> | BT TRAN <td></td> <td></td> |      |           |
| CHECKED/REVIEWED  |  |                             |      |           |
| DESIGNS DET AILED   |  |                             |      |           |
| DESIGNS DET AILED   |  |                             |      |           |
| REVISIONS 1   |  |                             |      |           |
| REVISIONS 2   |  |                             |      |           |
| REVISIONS 3   |  |                             |      |           |
| REVISIONS 4   |  |                             |      |           |
| FIELD CHANGES   |  |                             |      |           |

BRUNSWICK  
 US RTE. 1 \ DURHAM RD.  
 CROSS SECTIONS

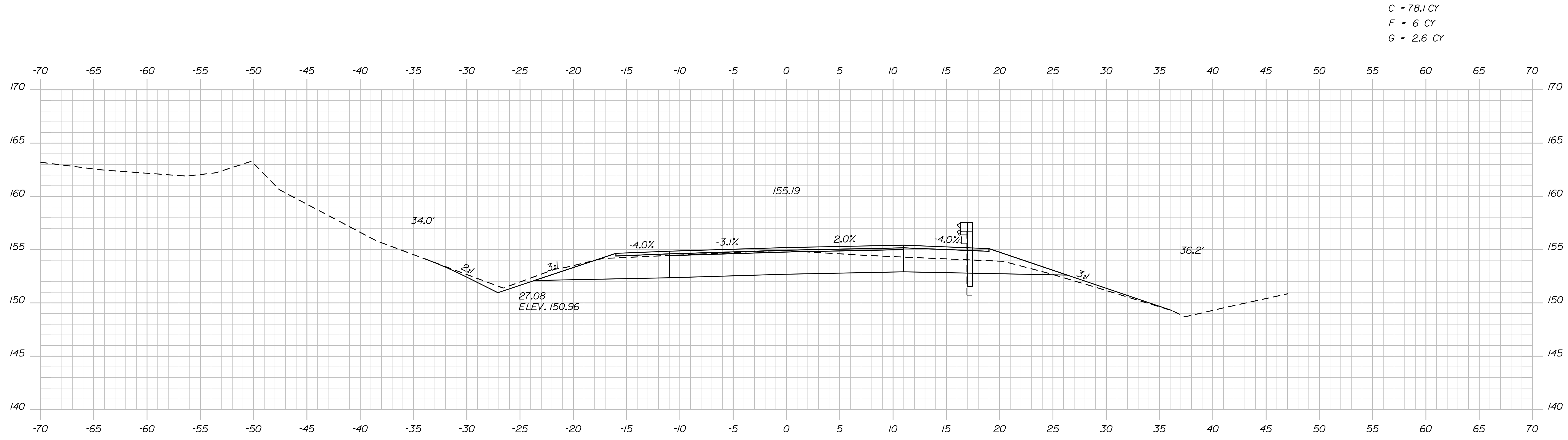
SHEET NUMBER  
**13**  
 OF 39

Date: 3/28/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \014\_Xsect\_Route18-75\_002.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER   | DATE                                 | BY                | DATE        |
|---|--------------------------------------|-------------------|-------------|
| J. FRENCH <td>JUN 2011 <td>BT TRAN <td></td> </td></td> | JUN 2011 <td>BT TRAN <td></td> </td> | BT TRAN <td></td> |             |
| CHECKED/REVIEWED  |                                      |                   | SIGNATURE   |
| DESIGN/REVIEWED   |                                      |                   | P.E. NUMBER |
| DESIGN/REVIEWED   |                                      |                   | DATE        |
| REVISIONS 1   |                                      |                   |             |
| REVISIONS 2   |                                      |                   |             |
| REVISIONS 3   |                                      |                   |             |
| REVISIONS 4   |                                      |                   |             |
| FIELD CHANGES   |                                      |                   |             |

BRUNSWICK  
US RTE. 1/DURHAM RD.  
CROSS SECTIONS

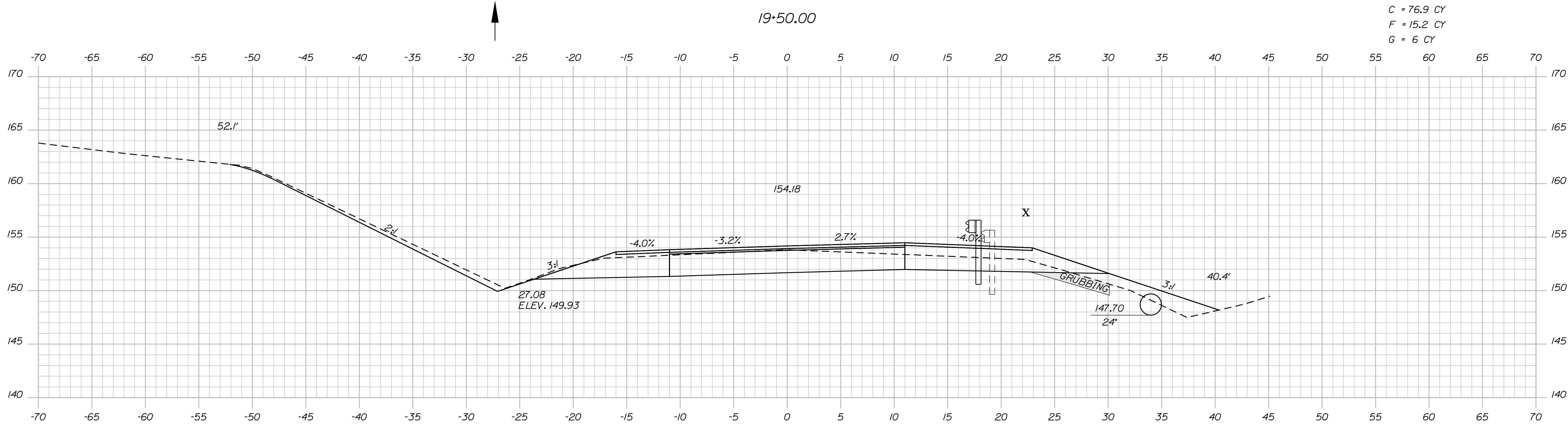
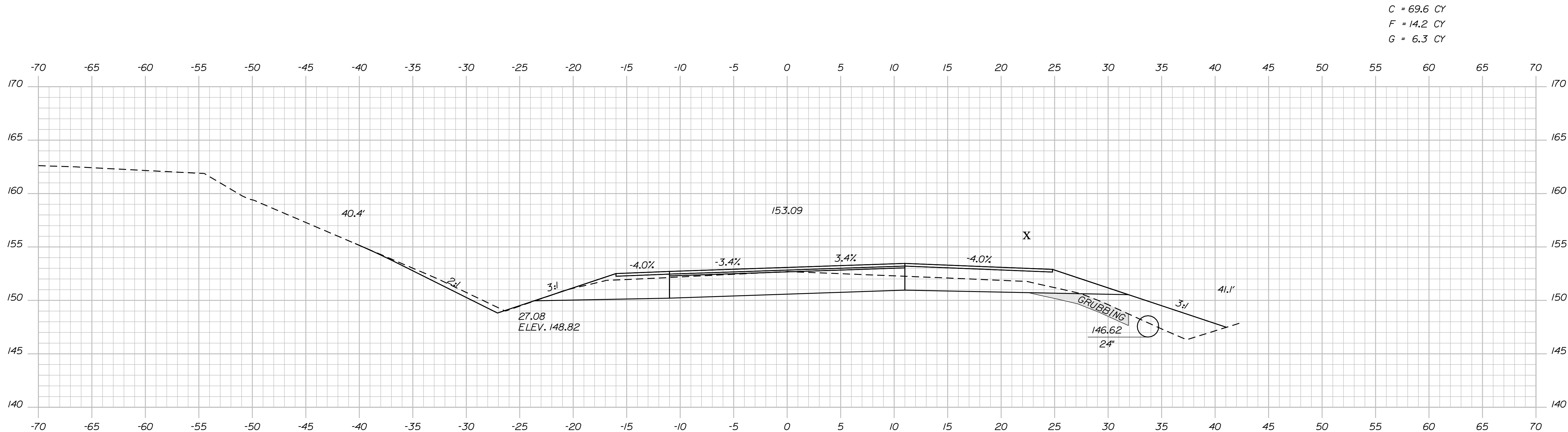
SHEET NUMBER  
**14**  
OF 39

Date: 3/28/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \015\_Xsect\_Route\19-25\_003.dgn



STA. 19+25.00 RT. BEGIN GRUBBING IN FILL

STA. 19+50.00 RT. INSTALL 24"X95' CULV. PIPE OPT. 1

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER   | DATE   | BY                          | DATE | SIGNATURE |
|---|--|-----------------------------|------|-----------|
| J. FRENCH <td>JUN 2011 <td>BT TRAN <td></td> <td></td> </td></td> | JUN 2011 <td>BT TRAN <td></td> <td></td> </td> | BT TRAN <td></td> <td></td> |      |           |
| CHECKED-REVIEWED  |  |                             |      |           |
| DESIGN DETAILED   |  |                             |      |           |
| DESIGN DETAILED   |  |                             |      |           |
| REVISIONS 1   |  |                             |      |           |
| REVISIONS 2   |  |                             |      |           |
| REVISIONS 3   |  |                             |      |           |
| REVISIONS 4   |  |                             |      |           |
| FIELD CHANGES   |  |                             |      |           |

BRUNSWICK  
US RTE. 1 \ DURHAM RD.  
CROSS SECTIONS

SHEET NUMBER  
**15**  
OF 39

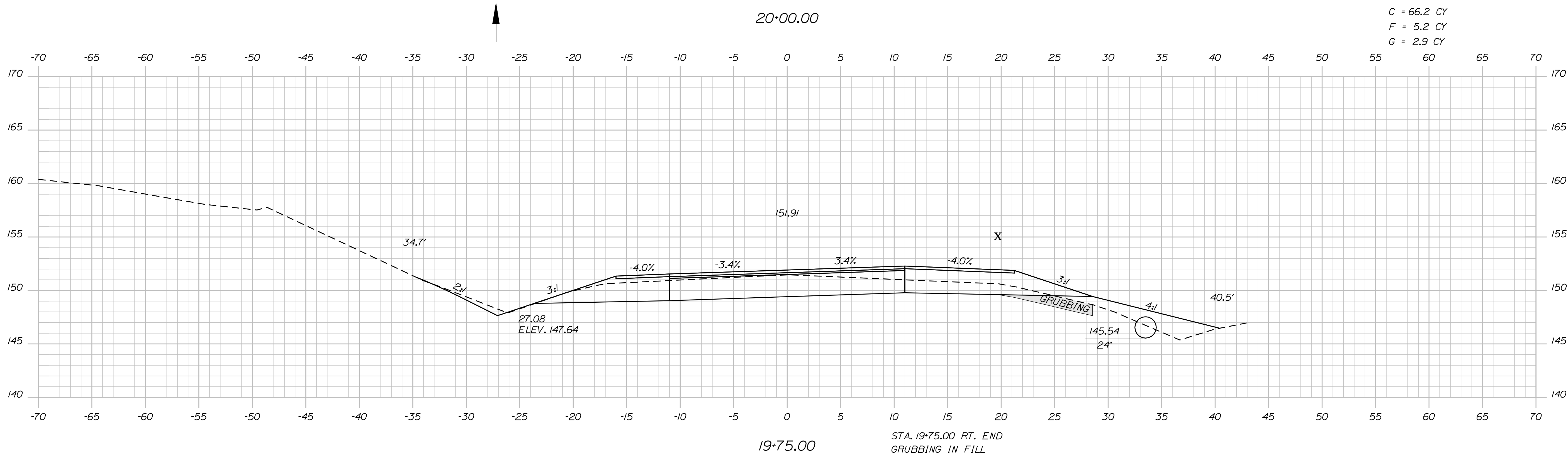
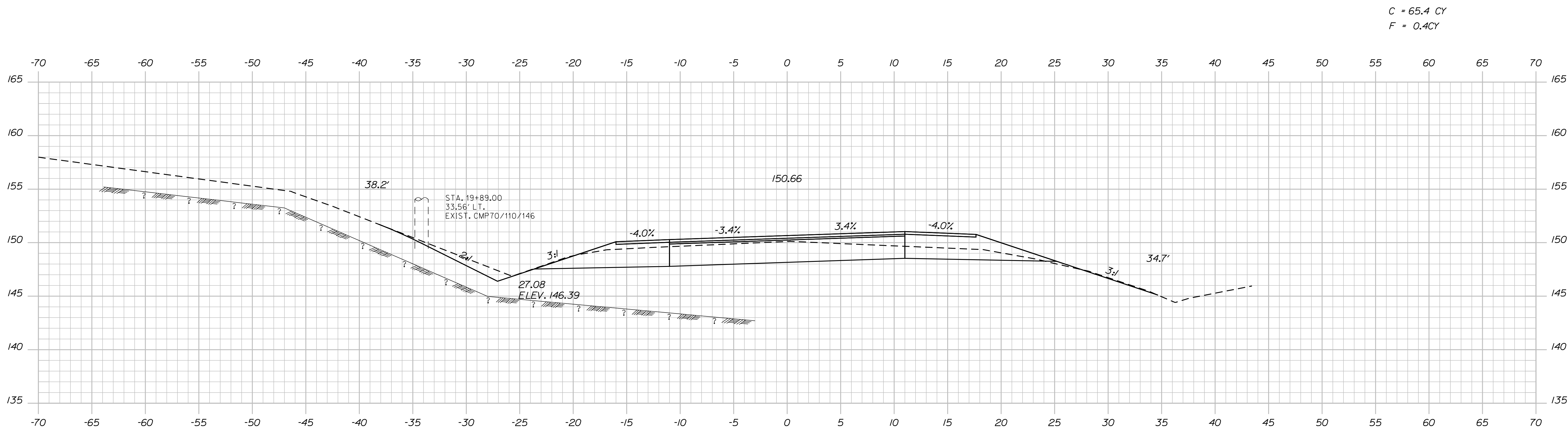
Sta. 19+25.00 to Sta. 19+50.00

Date: 3/28/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \016\_Xsect\_Route1\_19+75\_00.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER   | BY                                   | DATE               | SIGNATURE |
|---|--------------------------------------|--------------------|-----------|
| J. FRENCH <td>BT TRAN <td>JUN 2011 <td></td> </td></td> | BT TRAN <td>JUN 2011 <td></td> </td> | JUN 2011 <td></td> |           |
| CHECKED-REVIEWED  |                                      |                    |           |
| DESIGNS DET AILED                                       |                                      |                    |           |
| DESIGNS DET AILED                                       |                                      |                    |           |
| REVISIONS 1   |                                      |                    |           |
| REVISIONS 2   |                                      |                    |           |
| REVISIONS 3   |                                      |                    |           |
| REVISIONS 4   |                                      |                    |           |
| FIELD CHANGES   |                                      |                    |           |

BRUNSWICK  
US RTE. 1 \ DURHAM RD.  
CROSS SECTIONS

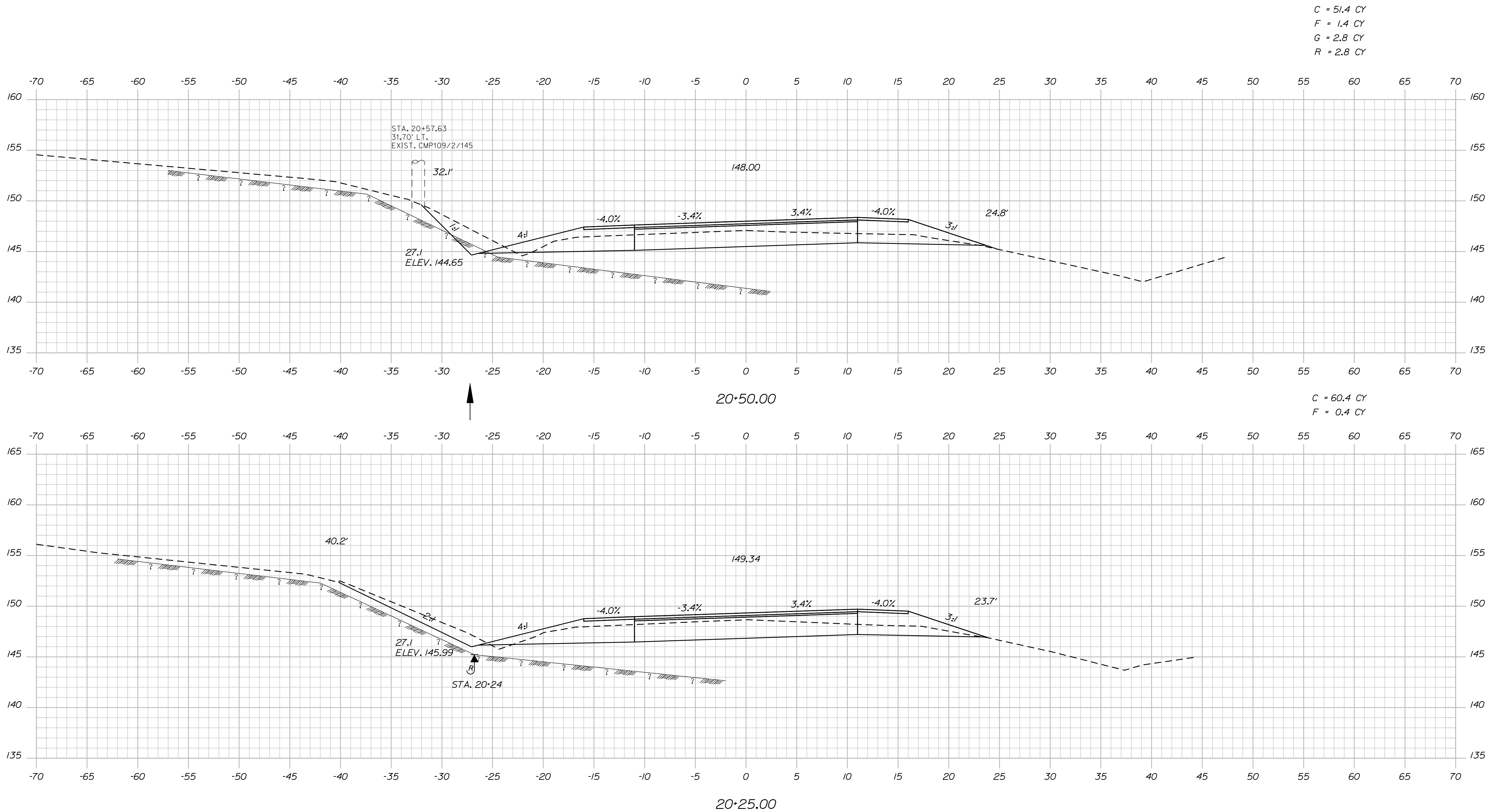
SHEET NUMBER  
**16**  
OF 39

Date: 3/28/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \017\_Xsect\_Route1\_20+25\_005.dgn



C = 51.4 CY  
 F = 1.4 CY  
 G = 2.8 CY  
 R = 2.8 CY

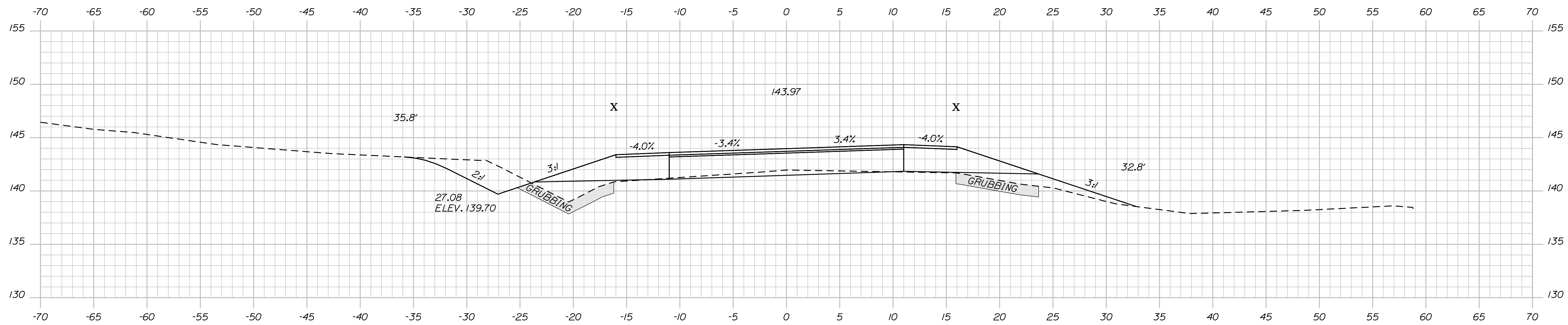
C = 60.4 CY  
 F = 0.4 CY

|  |           |                |    |
|--|-----------|----------------|----|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION |           | STP-1724(100)X |    |
| SIGNATURE                                      |           | P.E. NUMBER    |    |
| DATE   |           | DATE           |    |
| BY   | BT        | TR             | AN |
| PROJ. MANAGER                                  | J. FRENCH |                |    |
| CHECKED-REVIEWED                               |           |                |    |
| DESIGN DETAILED                                |           |                |    |
| DESIGN DETAILED                                |           |                |    |
| REVISIONS 1                                    |           |                |    |
| REVISIONS 2                                    |           |                |    |
| REVISIONS 3                                    |           |                |    |
| REVISIONS 4                                    |           |                |    |
| FIELD CHANGES                                  |           |                |    |
| BRUNSWICK<br>US RTE. 1 \ DURHAM RD.            |           |                |    |
| CROSS SECTIONS                                 |           |                |    |
| SHEET NUMBER                                   |           |                |    |
| 17   |           |                |    |
| OF 39  |           |                |    |

Date: 3/28/2012

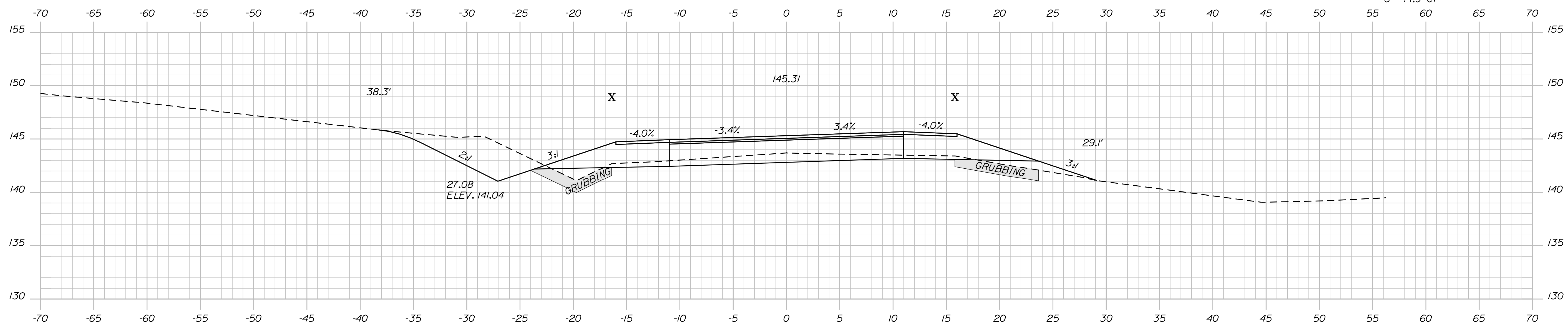
Username: rhobe.moulton

Division: HIGHWAY



21+25.00

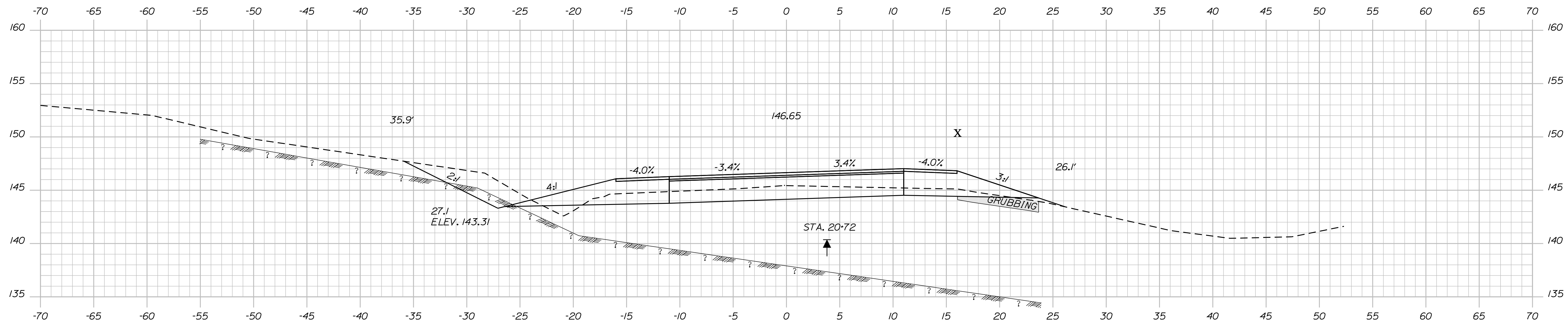
C = 30.3 CY  
F = 12 CY  
G = 14.9 CY



21+00.00

STA. 21+00.00 LT. BEGIN  
GRUBBING IN FILL

C = 44.2 CY  
F = 4.7 CY  
G = 9.7 CY



20+75.00

STA. 20+75.00 RT. BEGIN  
GRUBBING IN FILL

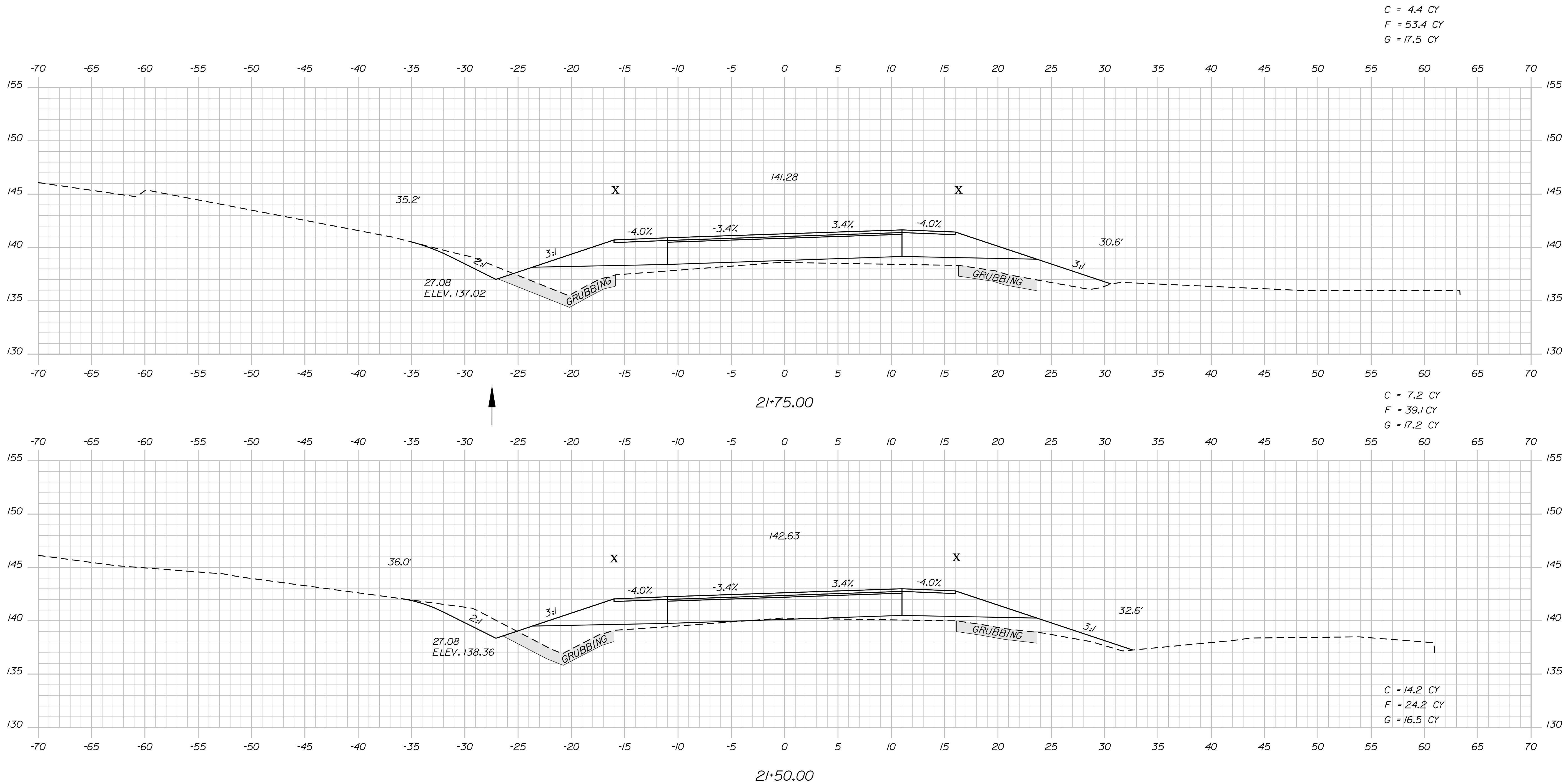
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| STATE OF MAINE       |          | DEPARTMENT OF TRANSPORTATION |             |
| STP-1724(100)X       |          | WIN 17241.00                 |             |
| HIGHWAY PLANS        |          |                              |             |
| PROJ. MANAGER        | DATE     | SIGNATURE                    | P.E. NUMBER |
| DESIGN DETAILED      | JUN 2011 |                              |             |
| CHECKED/REVIEWED     |          |                              |             |
| DESIGN DETAILED      |          |                              |             |
| REVISIONS 1          |          |                              |             |
| REVISIONS 2          |          |                              |             |
| REVISIONS 3          |          |                              |             |
| REVISIONS 4          |          |                              |             |
| FIELD CHANGES        |          |                              |             |
| BRUNSWICK            |          | CROSS SECTIONS               |             |
| US RTE. 1/DURHAM RD. |          |                              |             |
| SHEET NUMBER         |          | 18                           |             |
|                      |          | OF 39                        |             |

Date: 3/28/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \019\_Xsect\_Route1\_21+50\_007.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER  | DATE   | BY | BT | TRAN | DATE | SIGNATURE |
|--|--|----|----|------|------|-----------|
| J. FRENCH <td>JUN 2011 <td></td> <td></td> <td></td> <td></td> <td></td> </td> | JUN 2011 <td></td> <td></td> <td></td> <td></td> <td></td> |    |    |      |      |           |
| CHECKED-REVIEWED   |  |    |    |      |      |           |
| DESIGNS DET AILED  |  |    |    |      |      |           |
| DESIGNS DET AILED  |  |    |    |      |      |           |
| REVISIONS 1  |  |    |    |      |      |           |
| REVISIONS 2  |  |    |    |      |      |           |
| REVISIONS 3  |  |    |    |      |      |           |
| REVISIONS 4  |  |    |    |      |      |           |
| FIELD CHANGES  |  |    |    |      |      |           |

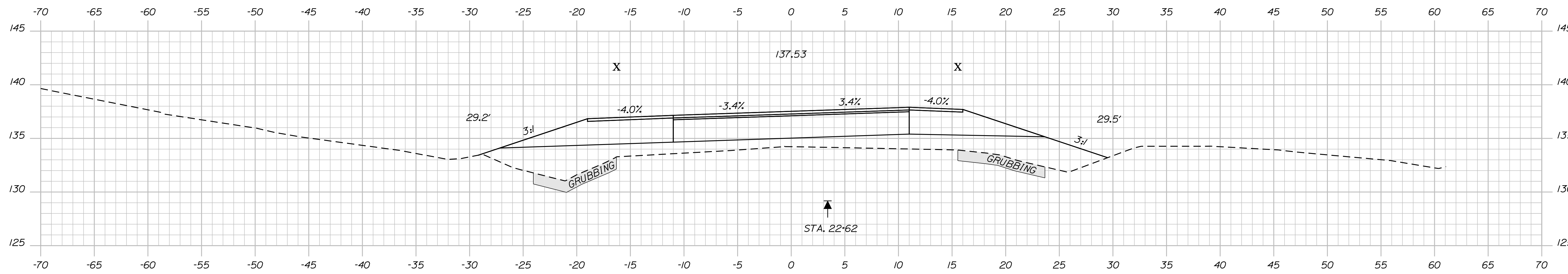
BRUNSWICK  
US RTE. 1 \ DURHAM RD.  
CROSS SECTIONS

SHEET NUMBER  
**19**  
OF 39

Date: 3/28/2012

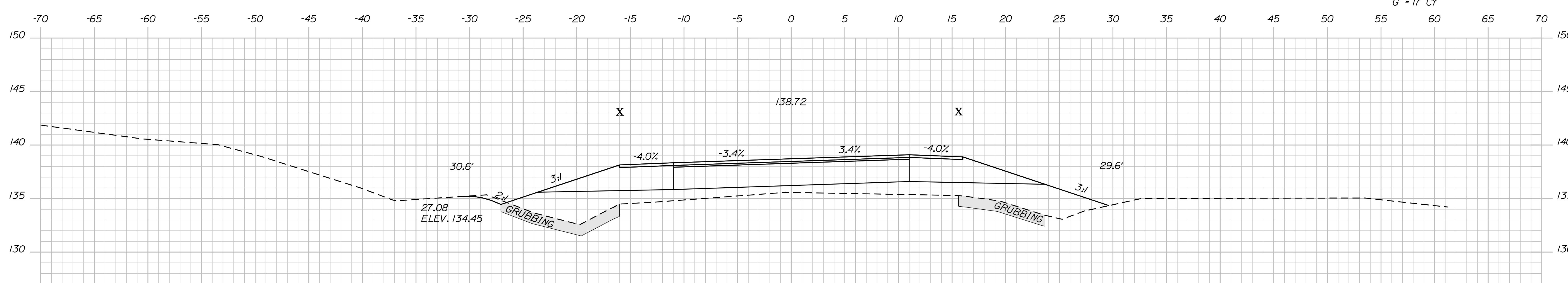
Username: rhobe.moulton

Filename: ... \020\_Xsect\_Route1\_22+00\_008.dgn Division: HIGHWAY



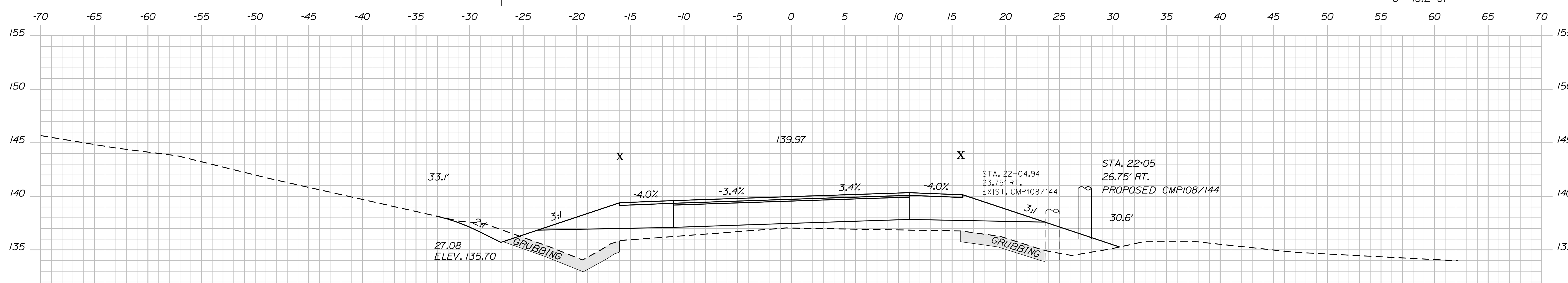
22+50.00

C = 0.4 CY  
F = 76 CY  
G = 17 CY



22+25.00

C = 2.3 CY  
F = 65.5 CY  
G = 18.2 CY



22+00.00

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER    | BY      | DATE     | SIGNATURE |
|------------------|---------|----------|-----------|
| J. FRENCH        | BT TRAN | JUN 2011 |           |
| CHECKED-REVIEWED |         |          |           |
| DESIGN DETAILED  |         |          |           |
| DESIGNS DETAILED |         |          |           |
| REVISIONS 1      |         |          |           |
| REVISIONS 2      |         |          |           |
| REVISIONS 3      |         |          |           |
| REVISIONS 4      |         |          |           |
| FIELD CHANGES    |         |          |           |

BRUNSWICK  
US RTE. 1 \ DURHAM RD.  
CROSS SECTIONS

SHEET NUMBER  
**20**  
OF 39

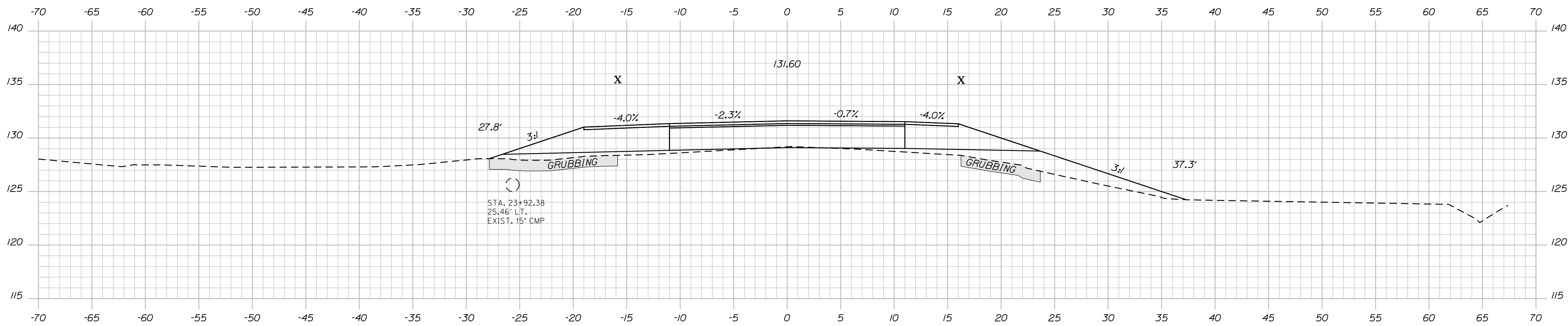


Date: 3/28/2012

Username: rhobe.moulton

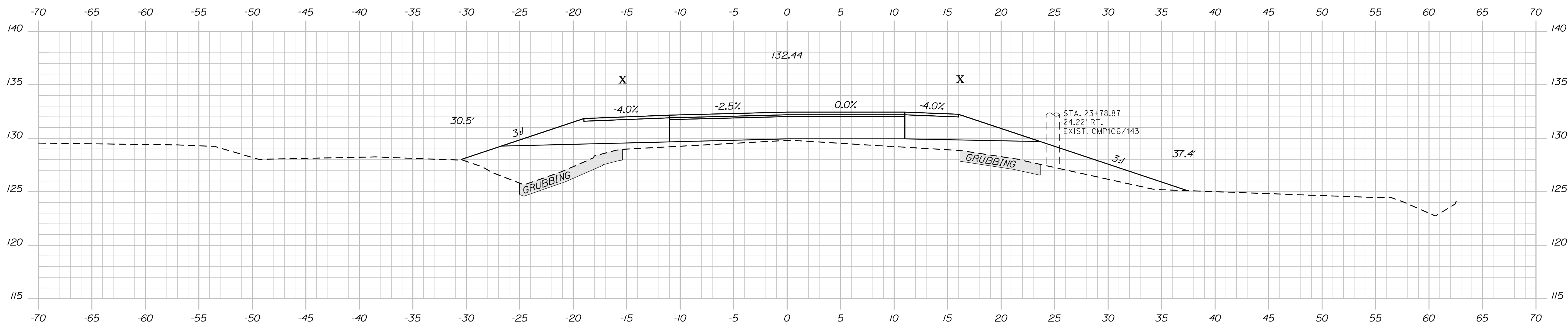
Division: HIGHWAY

Filename: ... \022\_xsect\_Route1\_23+50\_010.dgn



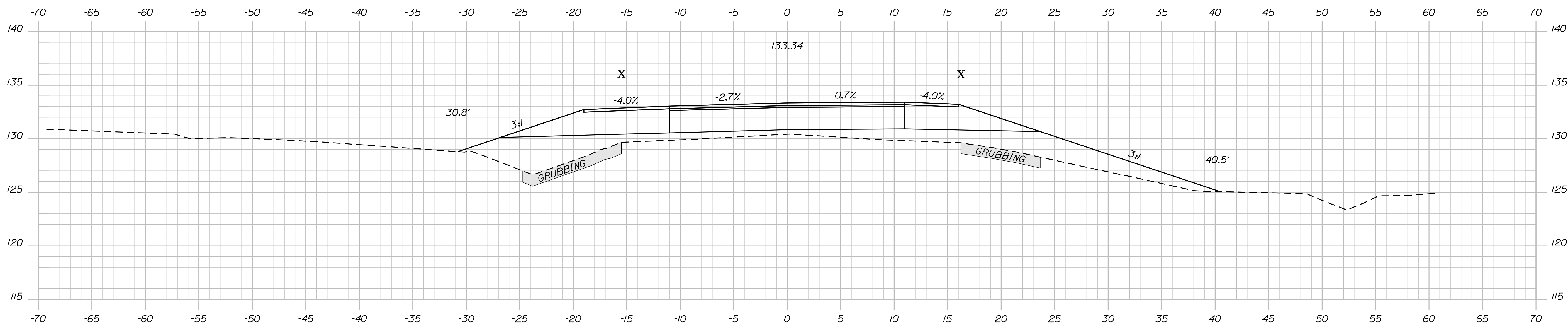
24+00.00

C = 0.1 CY  
F = 50.5 CY  
G = 17.4 CY



23+75.00

F = 76.6 CY  
G = 16.4 CY



23+50.00

F = 88.8 CY  
G = 15.9 CY

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER     | BY      | DATE     | SIGNATURE |
|-------------------|---------|----------|-----------|
| J. FRENCH         | BT TRAN | JUN 2011 |           |
| CHECKED-REVIEWED  |         |          |           |
| DESIGNS DET AILED |         |          |           |
| DESIGNS DET AILED |         |          |           |
| REVISIONS 1       |         |          |           |
| REVISIONS 2       |         |          |           |
| REVISIONS 3       |         |          |           |
| REVISIONS 4       |         |          |           |
| FIELD CHANGES     |         |          |           |

BRUNSWICK  
US RTE. 1 \ DURHAM RD.  
CROSS SECTIONS

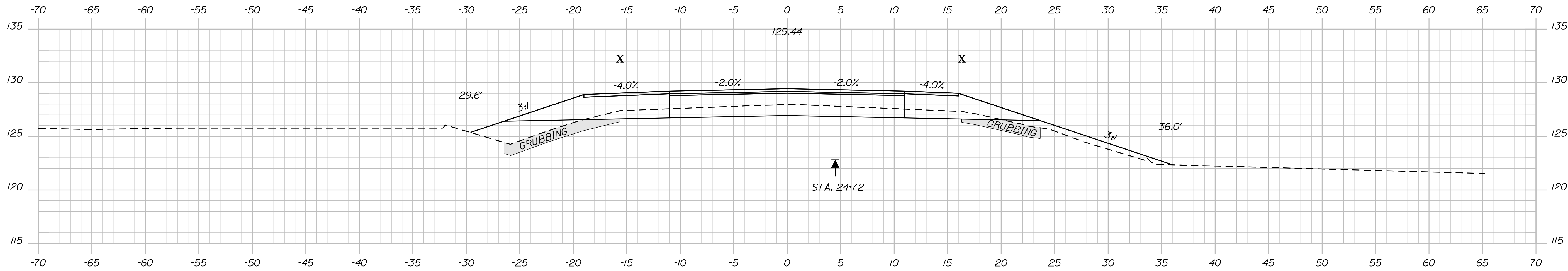
SHEET NUMBER  
22  
OF 39

Date: 3/28/2012

Username: rhobe.moulton

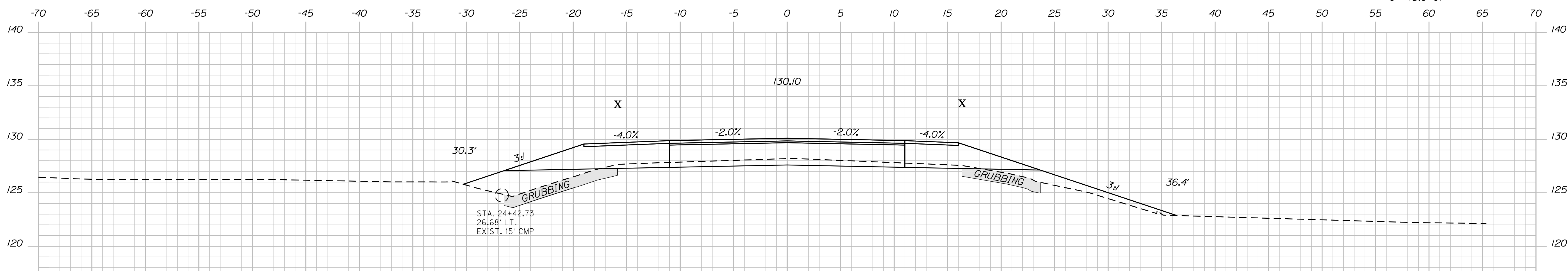
Division: HIGHWAY

Filename: ... \023\_Xsect\_Route1\_24+25\_011.dgn



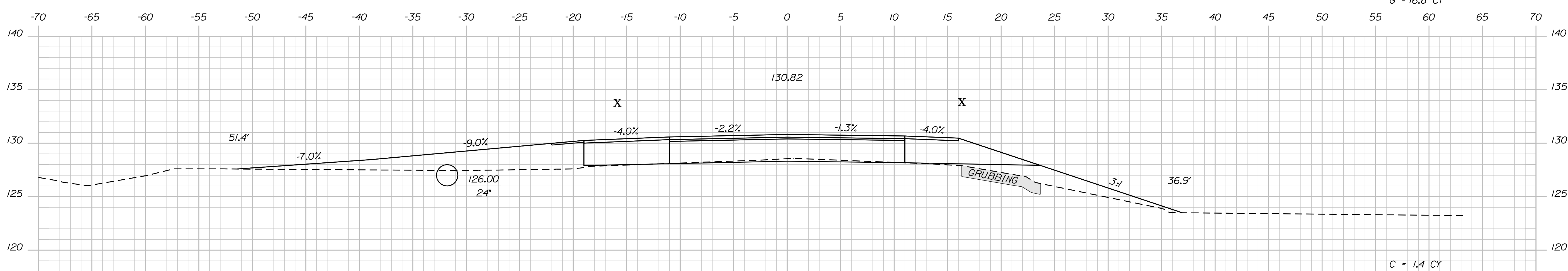
24+75.00

C = 22 CY  
F = 20.7 CY  
G = 15.8 CY



24+50.00

C = 8.8 CY  
F = 40.1 CY  
G = 16.8 CY



24+25.00

C = 1.4 CY  
F = 44.1 CY  
G = 17.6 CY

STA. 24+17.00 LT.  
INSTALL 24\"/>

STA. 24+17.00 LT.  
CONSTRUCT GRAVEL FIELD ENT.

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER    | DATE     | BY        | DATE | SIGNATURE | P.E. NUMBER | DATE |
|------------------|----------|-----------|------|-----------|-------------|------|
| DESIGN DETAILED  | JUN 2011 | BT TRAN   |      |           |             |      |
| CHECKED/REVIEWED |          | J. FRENCH |      |           |             |      |
| DESIGNS DETAILED |          |           |      |           |             |      |
| REVISIONS 1      |          |           |      |           |             |      |
| REVISIONS 2      |          |           |      |           |             |      |
| REVISIONS 3      |          |           |      |           |             |      |
| REVISIONS 4      |          |           |      |           |             |      |
| FIELD CHANGES    |          |           |      |           |             |      |

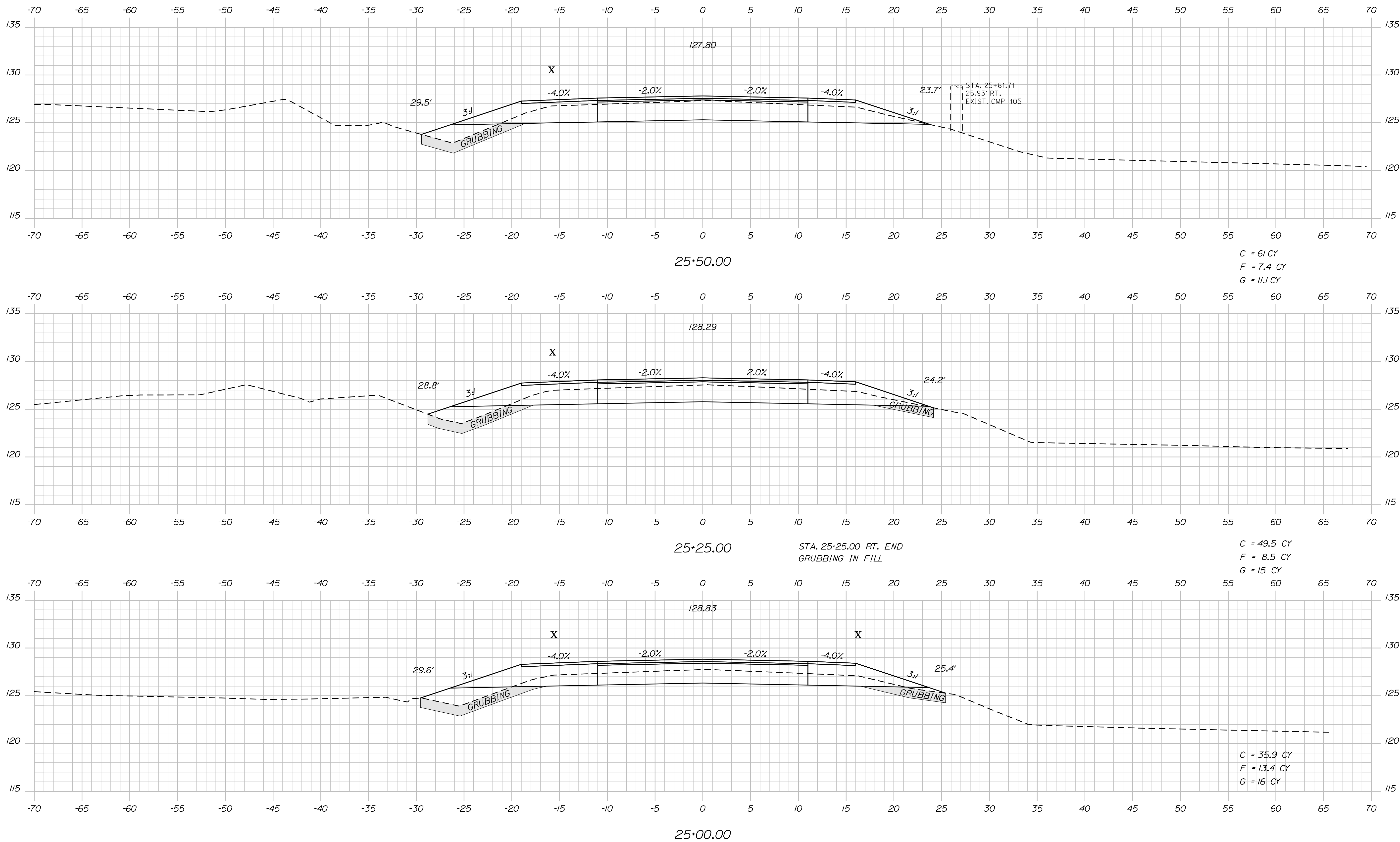
BRUNSWICK  
US RTE. 1 \ DURHAM RD.  
CROSS SECTIONS

SHEET NUMBER  
**23**  
OF 39

Date: 3/28/2012

Username: rhobe.moulton

Filename: ... \024\_xsect\_Route1\_25+00\_012.dgn Division: HIGHWAY



STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 STP-1724(100)X  
 WIN  
 17241.00  
 HIGHWAY PLANS

| PROJ. MANAGER   | BY   | DATE                                   | SIGNATURE | P.E. NUMBER | DATE |
|---|--|--|-----------|-------------|------|
| J. FRENCH <td>BT TRAN <td>JUN 2011 <td></td> <td></td> <td></td> </td></td> | BT TRAN <td>JUN 2011 <td></td> <td></td> <td></td> </td> | JUN 2011 <td></td> <td></td> <td></td> |           |             |      |
| CHECKED-REVIEWED  |  |  |           |             |      |
| DESIGNS DET AILED   |  |  |           |             |      |
| DESIGNS DET AILED   |  |  |           |             |      |
| REVISIONS 1   |  |  |           |             |      |
| REVISIONS 2   |  |  |           |             |      |
| REVISIONS 3   |  |  |           |             |      |
| REVISIONS 4   |  |  |           |             |      |
| FIELD CHANGES   |  |  |           |             |      |

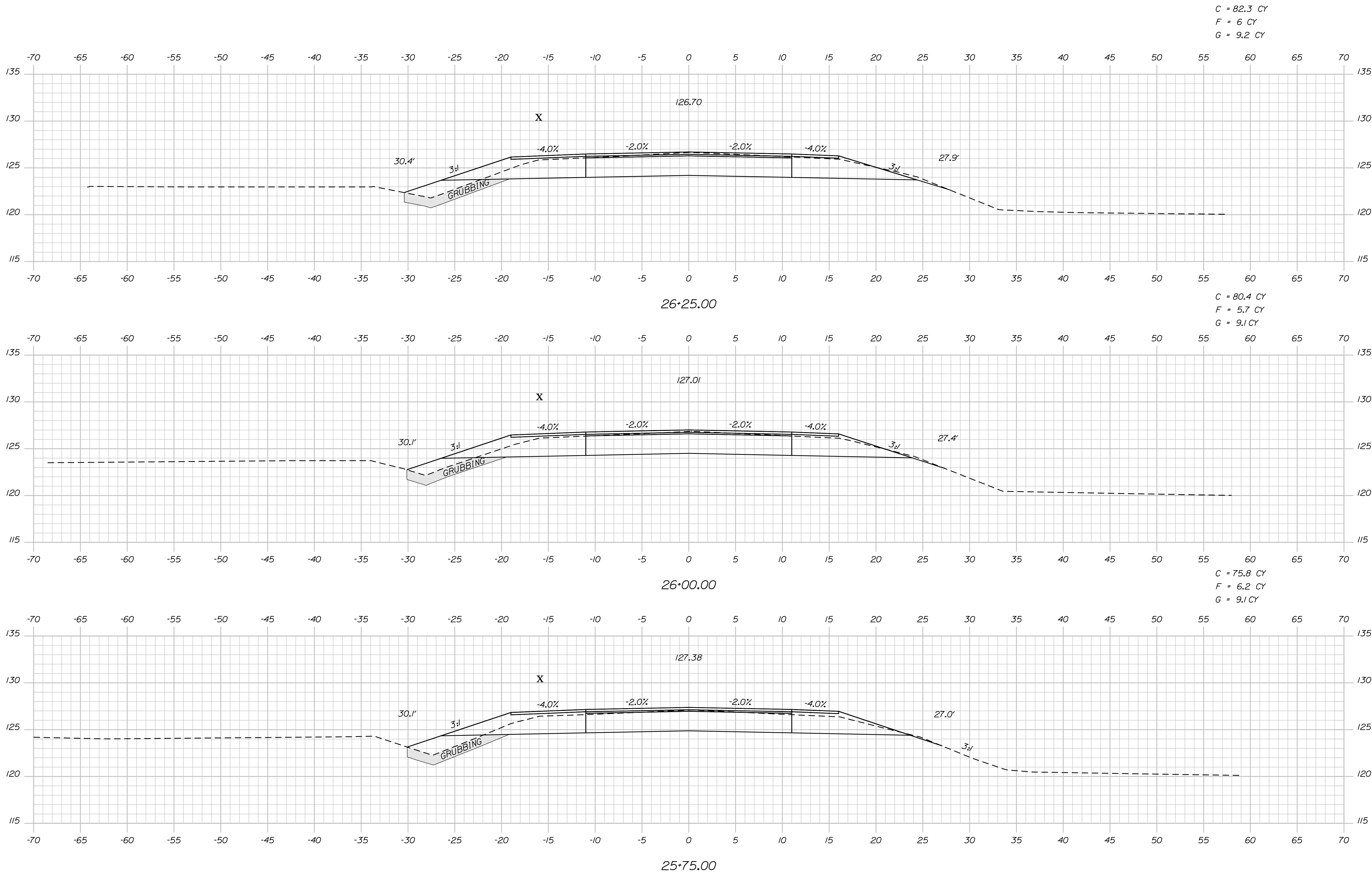
BRUNSWICK  
 US RTE. 1 DURHAM RD.  
 CROSS SECTIONS

SHEET NUMBER  
**24**  
 OF 39

Date: 3/28/2012

Username: rhobe.moulton

Filename: ... \025\_xsect\_Route1\_25+75\_013.dgn Division: HIGHWAY



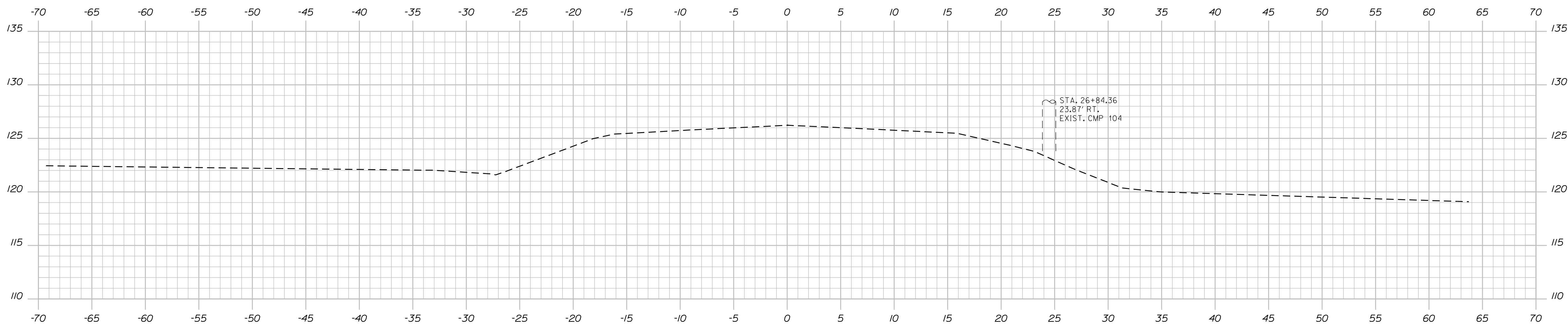
STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 STP-1724(100)X  
 WIN  
 17241.00  
 HIGHWAY PLANS

|                  |          |
|------------------|----------|
| PROJ. MANAGER    | DATE     |
| CHECKED/REVIEWED | JUN 2011 |
| DESIGN/REVIEWED  |          |
| DESIGN/TAILED    |          |
| REVISIONS 1      |          |
| REVISIONS 2      |          |
| REVISIONS 3      |          |
| REVISIONS 4      |          |
| FIELD CHANGES    |          |

|             |      |          |
|-------------|------|----------|
| BY          | BT   | DATE     |
| J. FRENCH   | TRAN | JUN 2011 |
| SIGNATURE   |      |          |
| P.E. NUMBER |      |          |
| DATE        |      |          |

BRUNSWICK  
 US RTE. 1 \ DURHAM RD.  
 CROSS SECTIONS

SHEET NUMBER  
**25**  
 OF 39

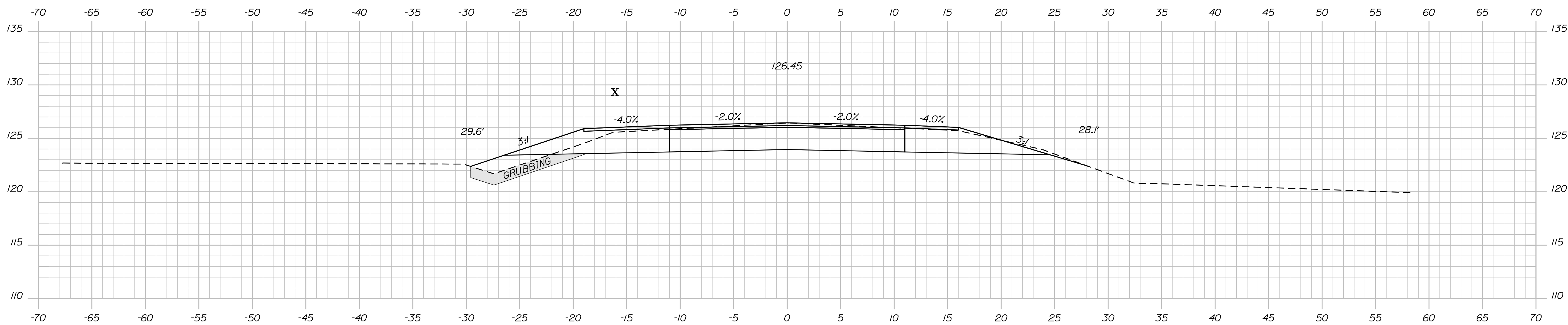


STA. 26+50.00 TO STA. 26+75.00  
 TRANSITION AGGREGATE SUBBASE COURSE-GRAVEL  
 AS DIRECTED BY THE RESIDENT

26+75.00

STA. 26+75.00  
 END PROJECT STP-1724(100)X  
 MATCH EXISTING

C = 41.3 CY  
 F = 2.8 CY  
 G = 4.5 CY



STA. 26+50.00 LT. END  
 GRUBBING IN FILL

26+50.00

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 STP-1724(100)X  
 WIN  
 17241.00  
 HIGHWAY PLANS

| PROJ. MANAGER     | BY      | DATE     | SIGNATURE |
|-------------------|---------|----------|-----------|
| J. FRENCH         | BT TRAN | JUN 2011 |           |
| CHECKED-REVIEWED  |         |          |           |
| DESIGNS DET AILED |         |          |           |
| DESIGNS DET AILED |         |          |           |
| REVISIONS 1       |         |          |           |
| REVISIONS 2       |         |          |           |
| REVISIONS 3       |         |          |           |
| REVISIONS 4       |         |          |           |
| FIELD CHANGES     |         |          |           |

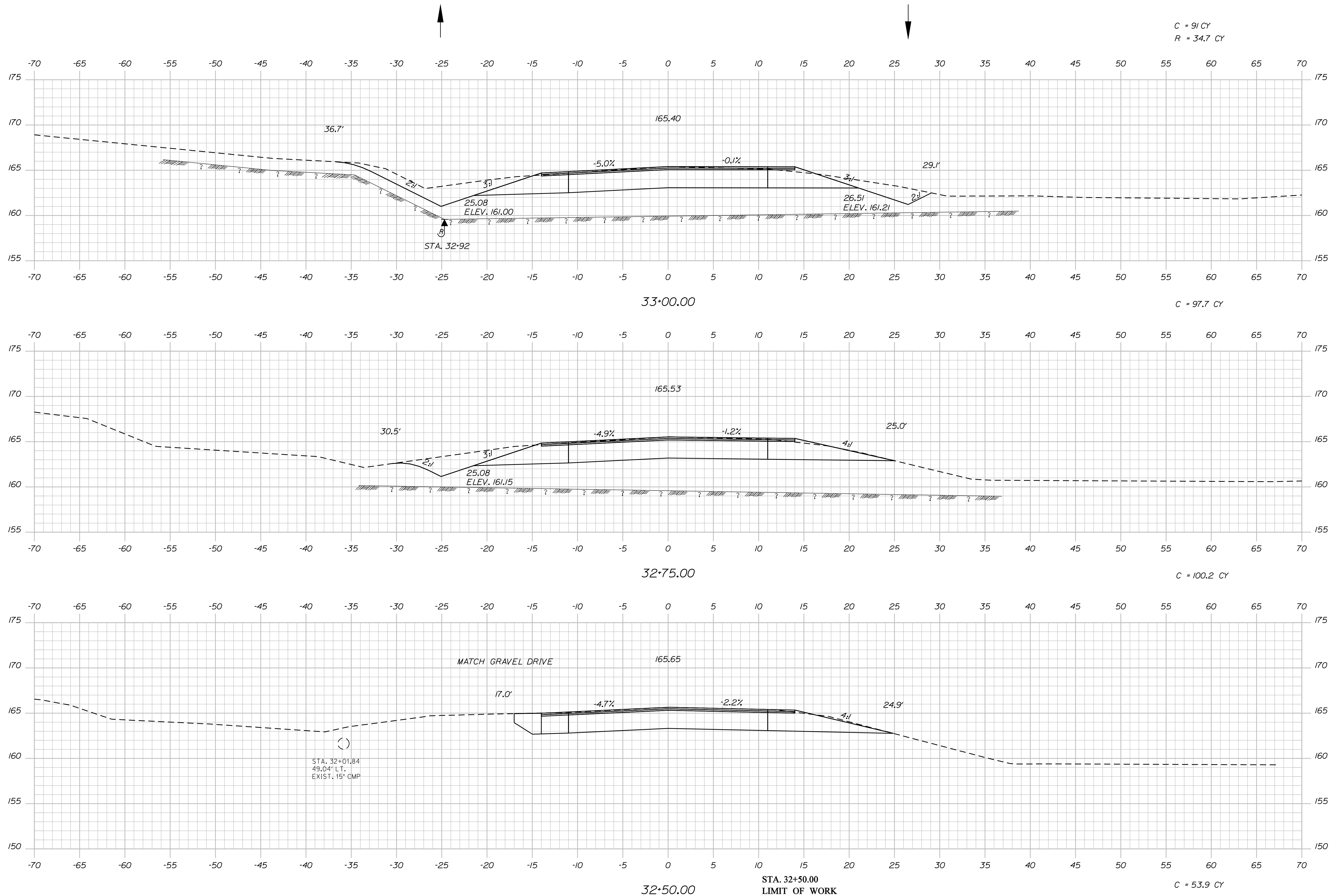
BRUNSWICK  
 US RTE. 1 \ DURHAM RD.  
 CROSS SECTIONS

SHEET NUMBER  
 26  
 OF 39

Date: 3/28/2012

Username: rhobe.moulton

Filename: ... \027\_xsect\_DurhamRd\_32+50\_001.dgn Division: HIGHWAY



C = 91 CY  
R = 34.7 CY

C = 97.7 CY

C = 100.2 CY

C = 53.9 CY

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN 17241.00  
HIGHWAY PLANS

| PROJ. MANAGER    | BY      | DATE     | SIGNATURE |
|------------------|---------|----------|-----------|
| J. FRENCH        | BT TRAN | JUN 2011 |           |
| CHECKED-REVIEWED |         |          |           |
| DESIGN DETAILED  |         |          |           |
| DESIGNS DETAILED |         |          |           |
| REVISIONS 1      |         |          |           |
| REVISIONS 2      |         |          |           |
| REVISIONS 3      |         |          |           |
| REVISIONS 4      |         |          |           |
| FIELD CHANGES    |         |          |           |

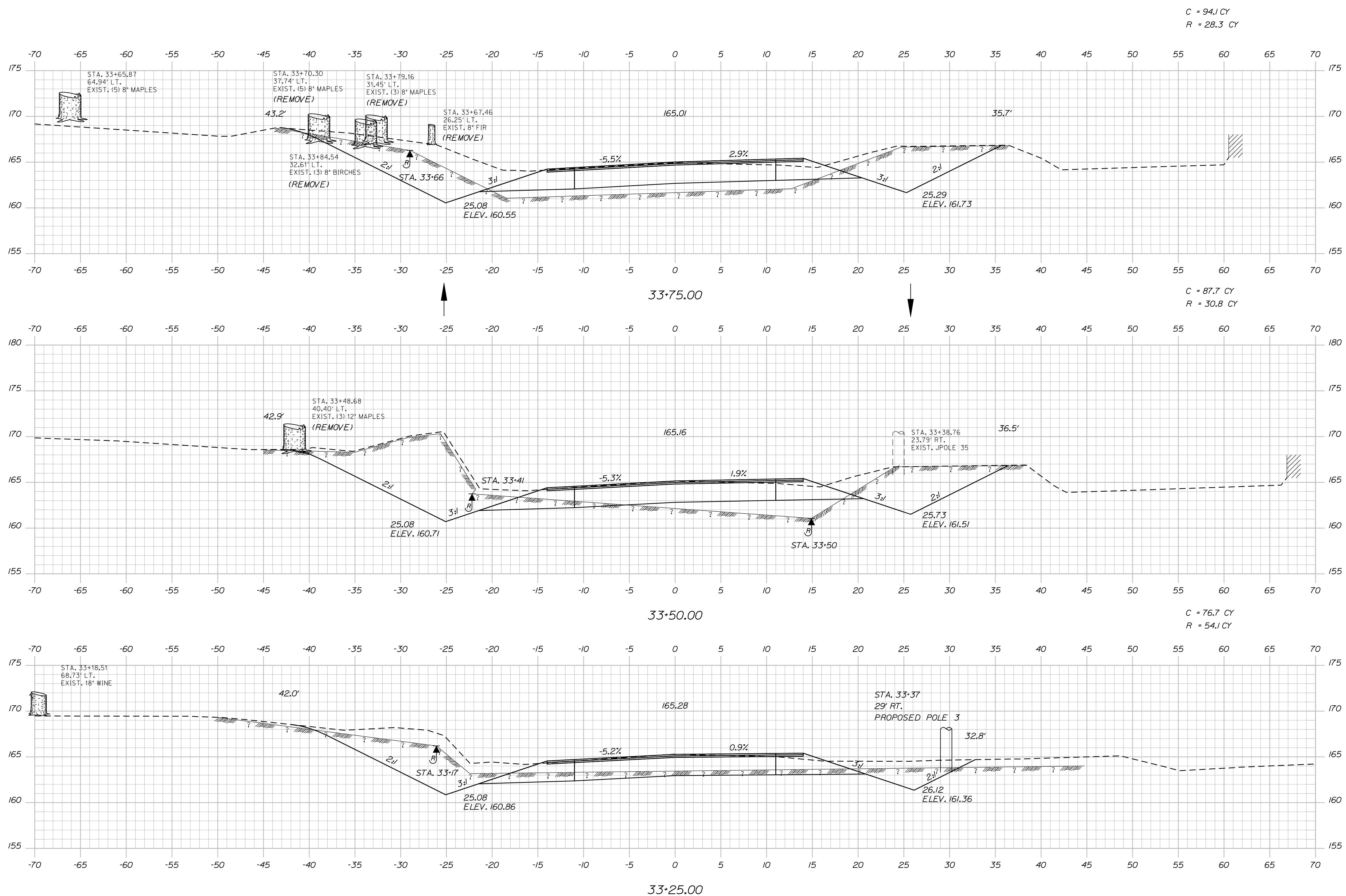
BRUNSWICK  
US RTE. 1 \ DURHAM RD.  
CROSS SECTIONS

SHEET NUMBER  
**27**  
OF 39

Date: 3/28/2012

Username: rhobe.moulton

Filename: ... \028\_xsect\_DurhamRd\_33+25\_002.dgn Division: HIGHWAY



C = 94.1 CY  
R = 28.3 CY

C = 87.7 CY  
R = 30.8 CY

C = 76.7 CY  
R = 54.1 CY

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER    | DATE     | BY        | DATE | SIGNATURE | P.E. NUMBER | DATE |
|------------------|----------|-----------|------|-----------|-------------|------|
| CHECKED-REVIEWED | JUN 2011 | BT TRAN   |      |           |             |      |
| DESIGN DETAILED  |          | J. FRENCH |      |           |             |      |
| DESIGN DETAILED  |          |           |      |           |             |      |
| REVISIONS 1      |          |           |      |           |             |      |
| REVISIONS 2      |          |           |      |           |             |      |
| REVISIONS 3      |          |           |      |           |             |      |
| REVISIONS 4      |          |           |      |           |             |      |
| FIELD CHANGES    |          |           |      |           |             |      |

BRUNSWICK  
US RTE. 1 DURHAM RD.  
CROSS SECTIONS

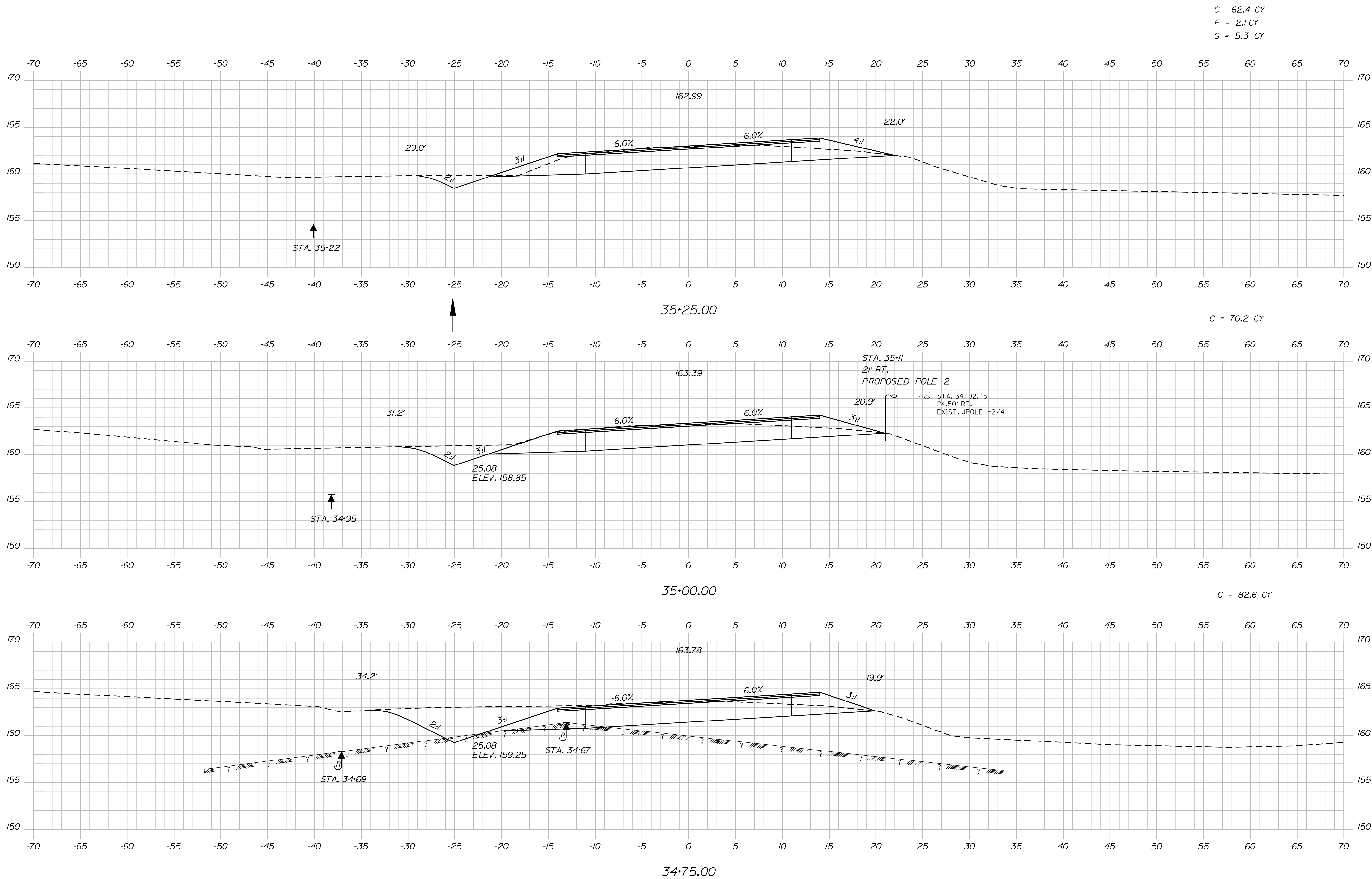
SHEET NUMBER  
**28**  
OF 39



Date: 3/28/2012

Username: rhobe.moulton

Filename: ... \030\_xsect\_DurhamRd\_34+75\_004.dgn Division: HIGHWAY



C = 62.4 CY  
F = 2.1 CY  
G = 5.3 CY

C = 70.2 CY

C = 82.6 CY

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER   | BY                                   | DATE               | SIGNATURE |
|---|--------------------------------------|--------------------|-----------|
| J. FRENCH <td>BT TRAN <td>JUN 2011 <td></td> </td></td> | BT TRAN <td>JUN 2011 <td></td> </td> | JUN 2011 <td></td> |           |
| CHECKED-REVIEWED  |                                      |                    |           |
| DESIGN DETAILED   |                                      |                    |           |
| DESIGN DETAILED   |                                      |                    |           |
| REVISIONS 1   |                                      |                    |           |
| REVISIONS 2   |                                      |                    |           |
| REVISIONS 3   |                                      |                    |           |
| REVISIONS 4   |                                      |                    |           |
| FIELD CHANGES   |                                      |                    |           |

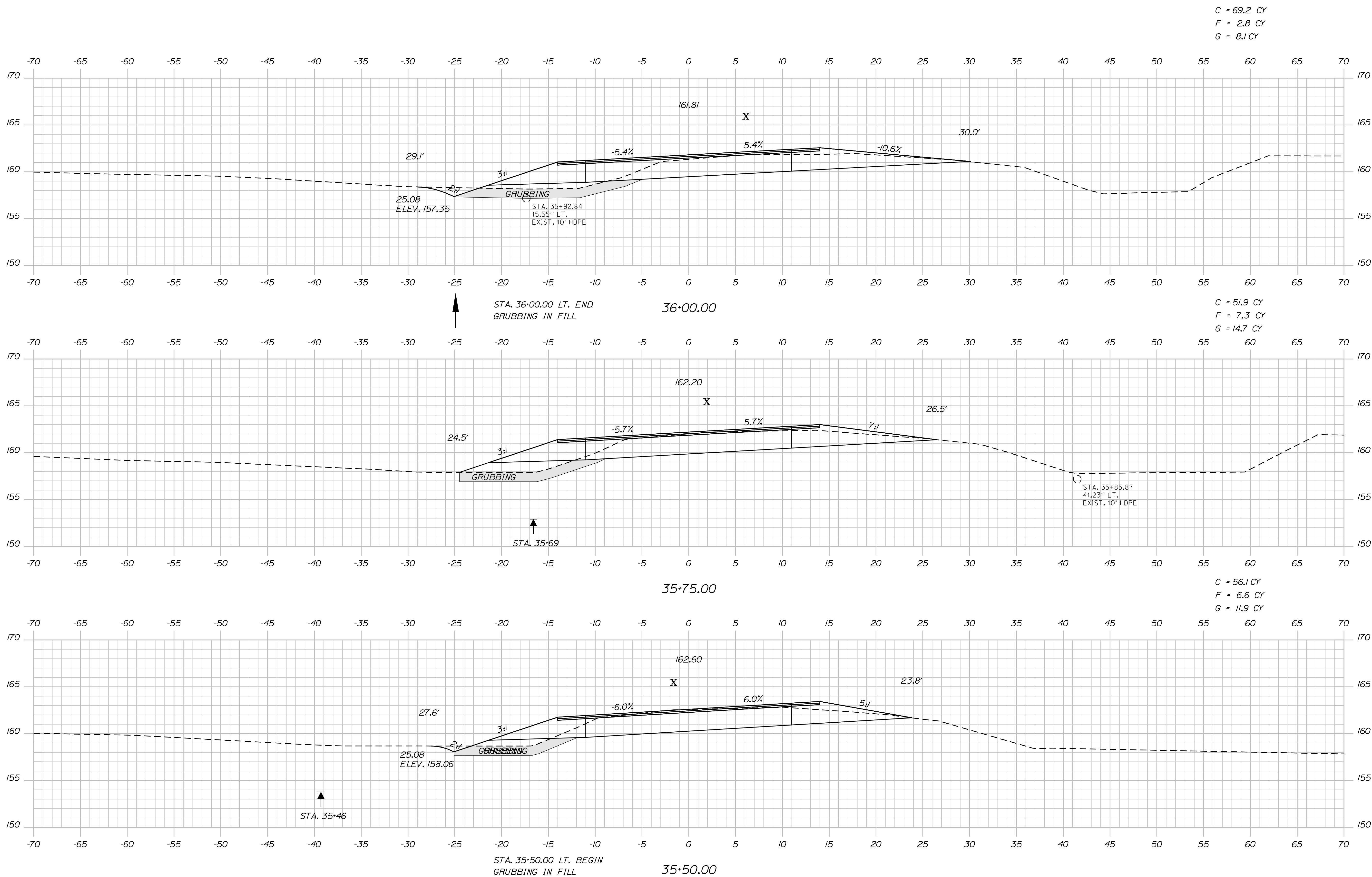
BRUNSWICK  
US RTE. 1 DURHAM RD.  
CROSS SECTIONS

SHEET NUMBER  
**30**  
OF 39

Date: 3/28/2012

Username: rhobe.moulton

Filename: ... \031\_Xsect\_DurhamRd\_35+50\_005.dgn Division: HIGHWAY



STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 STP-1724(100)X  
 WIN 17241.00  
 HIGHWAY PLANS

| PROJ. MANAGER    | BY        | DATE     | SIGNATURE | P.E. NUMBER | DATE |
|------------------|-----------|----------|-----------|-------------|------|
| DESIGN DETAILED  | J. FRENCH | JUN 2011 |           |             |      |
| CHECKED/REVIEWED |           |          |           |             |      |
| DESIGN DETAILED  |           |          |           |             |      |
| REVISIONS 1      |           |          |           |             |      |
| REVISIONS 2      |           |          |           |             |      |
| REVISIONS 3      |           |          |           |             |      |
| REVISIONS 4      |           |          |           |             |      |
| FIELD CHANGES    |           |          |           |             |      |

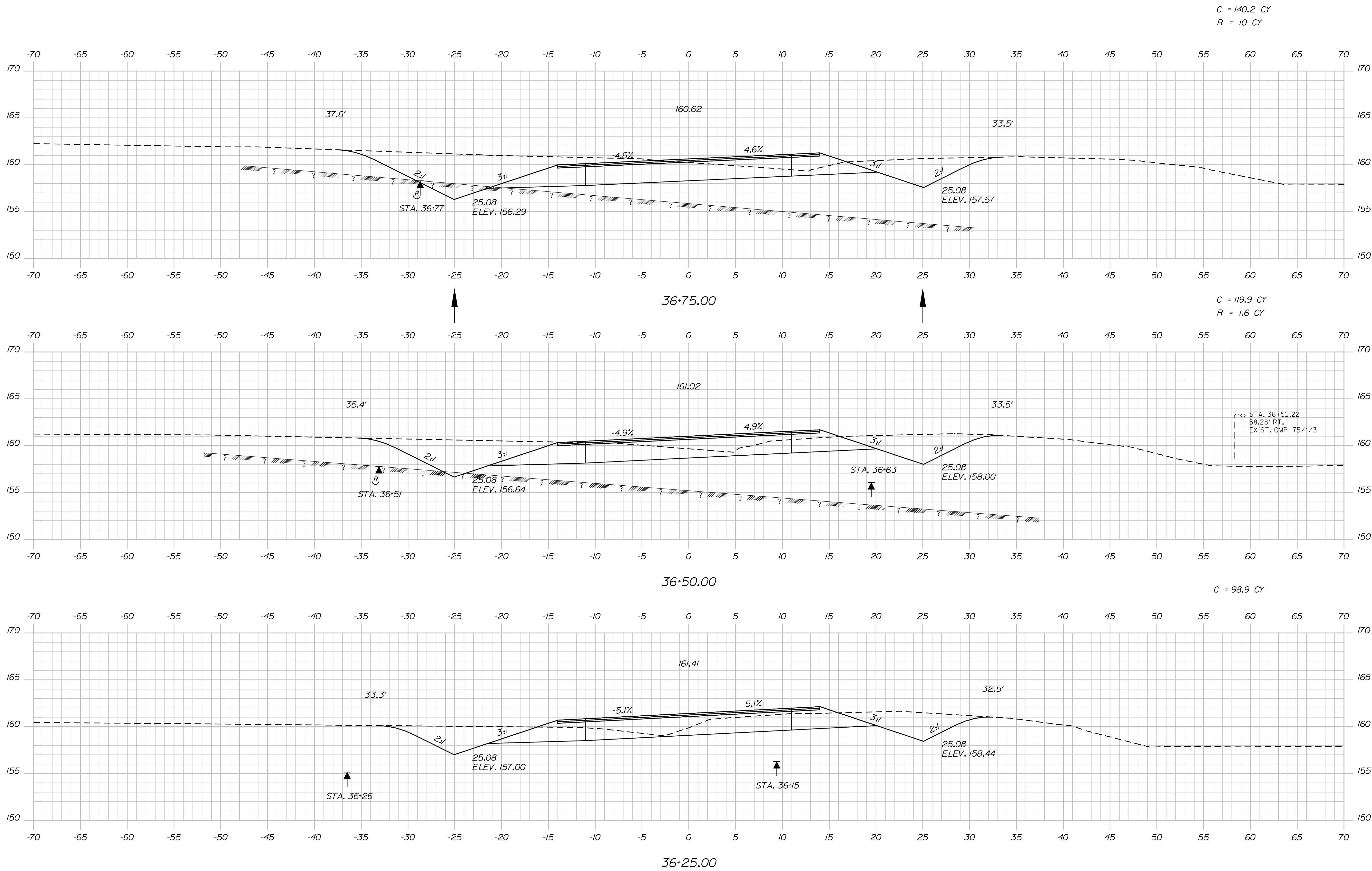
BRUNSWICK  
 US RTE. 1 DURHAM RD.  
 CROSS SECTIONS

SHEET NUMBER  
**31**  
 OF 39

Date: 3/28/2012

Username: rhobe.moulton

Filename: ... \032\_xsect\_DurhamRd\_36+25\_006.dgn Division: HIGHWAY



C = 140.2 CY  
R = 10 CY

C = 119.9 CY  
R = 1.6 CY

C = 98.9 CY

STA. 36+52.22  
58.28' RT.  
EXIST. CMP 75/1/3

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER  | DATE   | BY | BT | TRAN | SIGNATURE | P.E. NUMBER | DATE |
|--|--|----|----|------|-----------|-------------|------|
| J. FRENCH <td>JUN 2011 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </td> | JUN 2011 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> |    |    |      |           |             |      |
| DESIGN DETAILED  |  |    |    |      |           |             |      |
| CHECKED/REVIEWED   |  |    |    |      |           |             |      |
| DESIGN DETAILED  |  |    |    |      |           |             |      |
| DESIGN DETAILED  |  |    |    |      |           |             |      |
| REVISIONS 1  |  |    |    |      |           |             |      |
| REVISIONS 2  |  |    |    |      |           |             |      |
| REVISIONS 3  |  |    |    |      |           |             |      |
| REVISIONS 4  |  |    |    |      |           |             |      |
| FIELD CHANGES  |  |    |    |      |           |             |      |

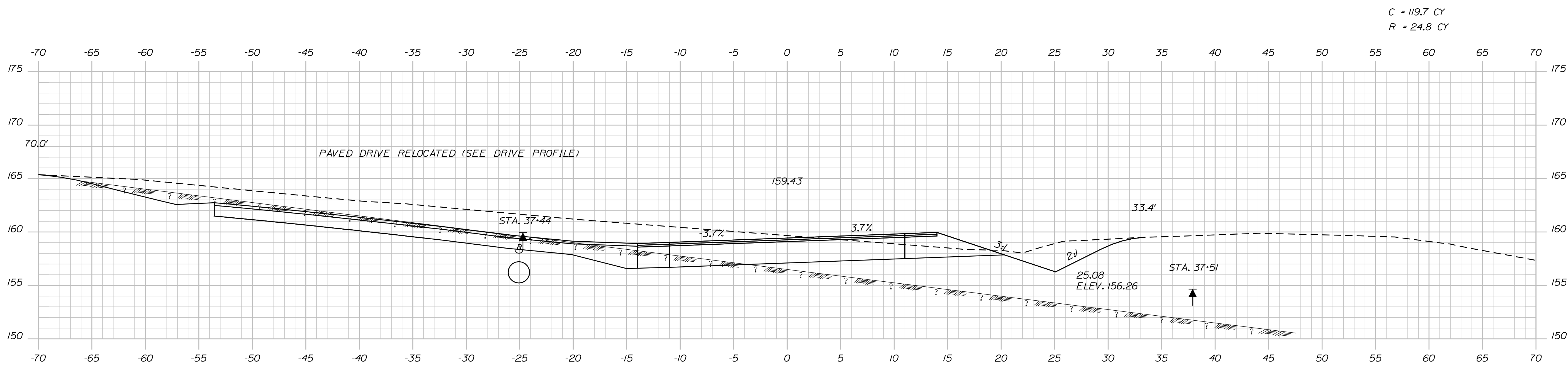
BRUNSWICK  
US RTE. 1 \ DURHAM RD.  
CROSS SECTIONS

SHEET NUMBER  
**32**  
OF 39

Date: 3/28/2012

Username: rhobe.moulton

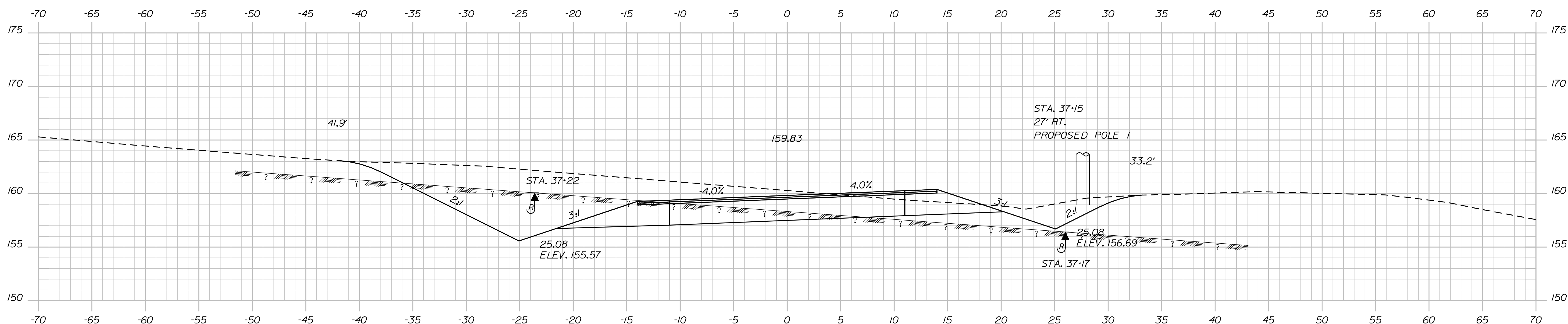
Filename: ... \033\_xsect\_DurhamRd\_37+00\_007.dgn Division: HIGHWAY



C = 119.7 CY  
R = 24.8 CY

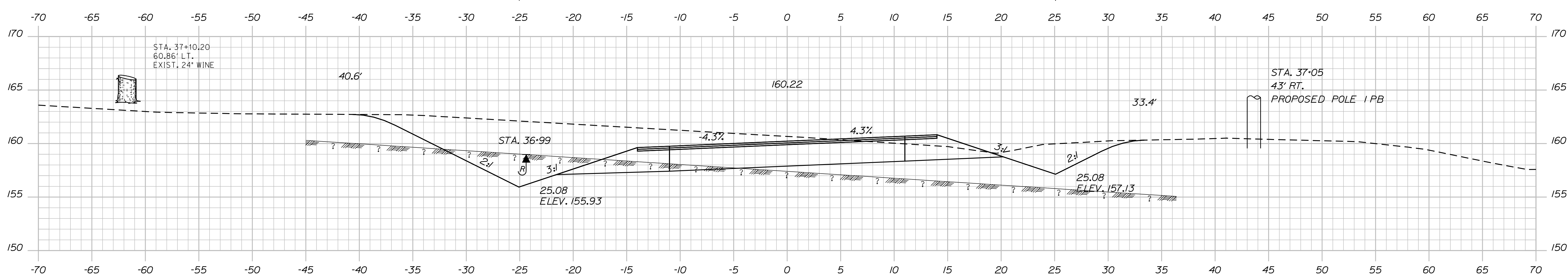
37+50.00

C = 130.5 CY  
R = 29.9 CY



37+25.00

C = 131.2 CY  
R = 30 CY



37+00.00

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER   | BY   | DATE                                   | SIGNATURE | P.E. NUMBER | DATE |
|---|--|--|-----------|-------------|------|
| J. FRENCH <td>BT TRAN <td>JUN 2011 <td></td> <td></td> <td></td> </td></td> | BT TRAN <td>JUN 2011 <td></td> <td></td> <td></td> </td> | JUN 2011 <td></td> <td></td> <td></td> |           |             |      |
| DESIGNED/REVIEWED   |  |  |           |             |      |
| CHECKED/REVIEWED  |  |  |           |             |      |
| DESIGNS DET AILED   |  |  |           |             |      |
| DESIGNS DET AILED   |  |  |           |             |      |
| REVISIONS 1   |  |  |           |             |      |
| REVISIONS 2   |  |  |           |             |      |
| REVISIONS 3   |  |  |           |             |      |
| REVISIONS 4   |  |  |           |             |      |
| FIELD CHANGES   |  |  |           |             |      |

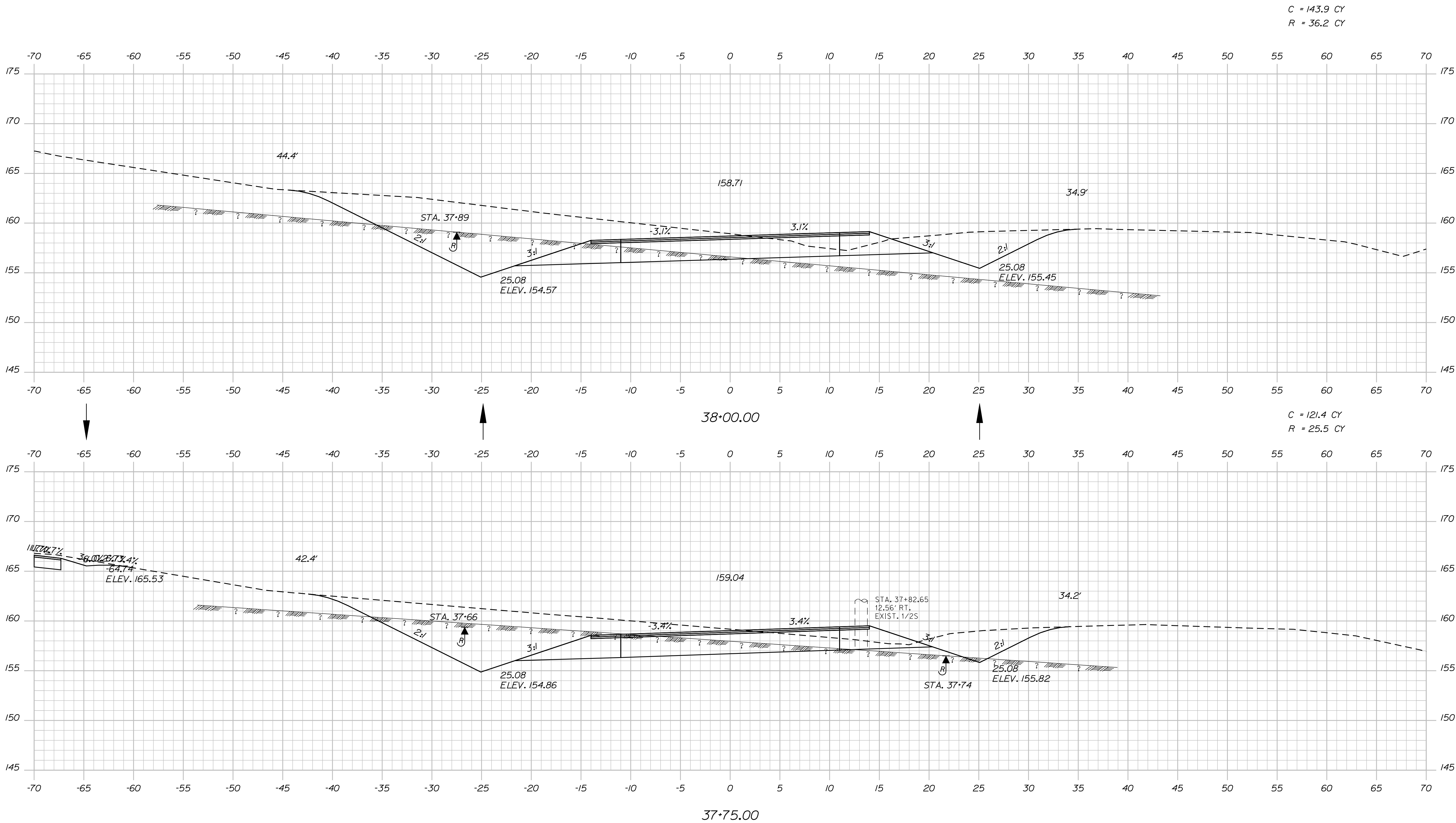
BRUNSWICK  
US RTE. 1 \ DURHAM RD.  
CROSS SECTIONS

SHEET NUMBER  
**33**  
OF 39

Date: 3/28/2012

Username: rhobe.moulton

Filename: ... \034\_xsect\_DurhamRd\_37+75\_008.dgn Division: HIGHWAY



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER   | BY                                   | DATE               | SIGNATURE |
|---|--------------------------------------|--------------------|-----------|
| J. FRENCH <td>BT TRAN <td>JUN 2011 <td></td> </td></td> | BT TRAN <td>JUN 2011 <td></td> </td> | JUN 2011 <td></td> |           |
| CHECKED-REVIEWED  |                                      |                    |           |
| DESIGNS DET AILED                                       |                                      |                    |           |
| DESIGNS DET AILED                                       |                                      |                    |           |
| REVISIONS 1   |                                      |                    |           |
| REVISIONS 2   |                                      |                    |           |
| REVISIONS 3   |                                      |                    |           |
| REVISIONS 4   |                                      |                    |           |
| FIELD CHANGES   |                                      |                    |           |

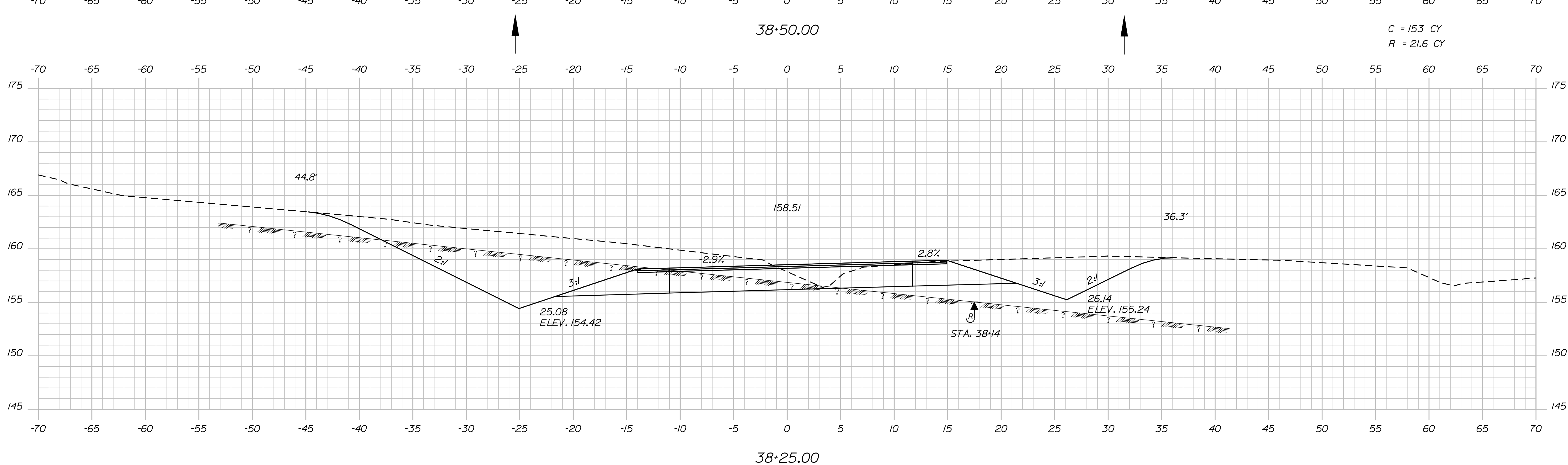
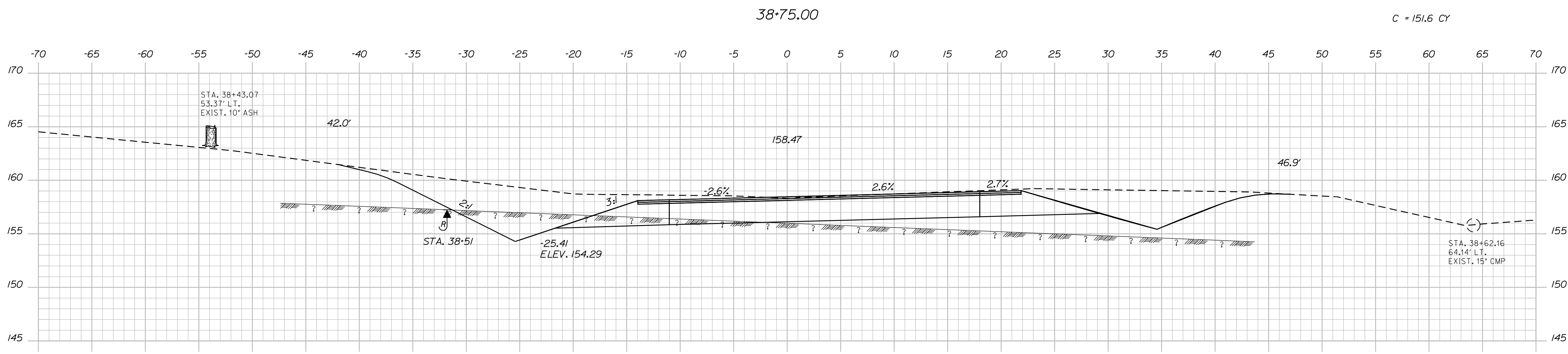
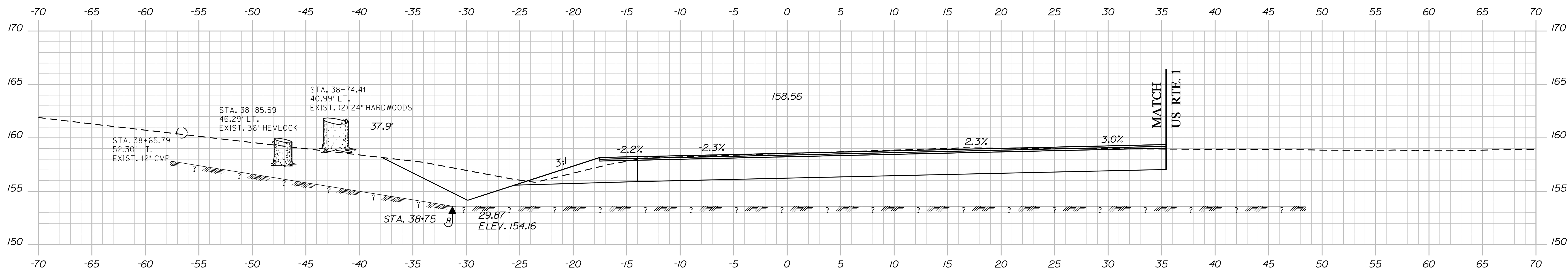
BRUNSWICK  
US RTE. 1 \ DURHAM RD.  
CROSS SECTIONS

SHEET NUMBER  
**34**  
OF 39

Date: 3/28/2012

Username: rhobe.moulton

Filename: ... \035\_Xsect\_DurhamRd\_38+25\_009.dgn Division: HIGHWAY



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-1724(100)X  
WIN  
17241.00  
HIGHWAY PLANS

| PROJ. MANAGER   | DATE                                 | BY                    | DATE |
|---|--------------------------------------|-----------------------|------|
| J. FRENCH <td>JUN 2011 <td>BT TRAN <td></td> </td></td>     | JUN 2011 <td>BT TRAN <td></td> </td> | BT TRAN <td></td>     |      |
| CHECKED-REVIEWED <td></td> <td>SIGNATURE <td></td> </td>    |                                      | SIGNATURE <td></td>   |      |
| DESIGNS DET AILED <td></td> <td>P.E. NUMBER <td></td> </td> |                                      | P.E. NUMBER <td></td> |      |
| DESIGNS DET AILED <td></td> <td>DATE <td></td> </td>        |                                      | DATE <td></td>        |      |
| REVISIONS 1 <td></td> <td></td> <td></td>                   |                                      |                       |      |
| REVISIONS 2 <td></td> <td></td> <td></td>                   |                                      |                       |      |
| REVISIONS 3 <td></td> <td></td> <td></td>                   |                                      |                       |      |
| REVISIONS 4 <td></td> <td></td> <td></td>                   |                                      |                       |      |
| FIELD CHANGES <td></td> <td></td> <td></td>                 |                                      |                       |      |

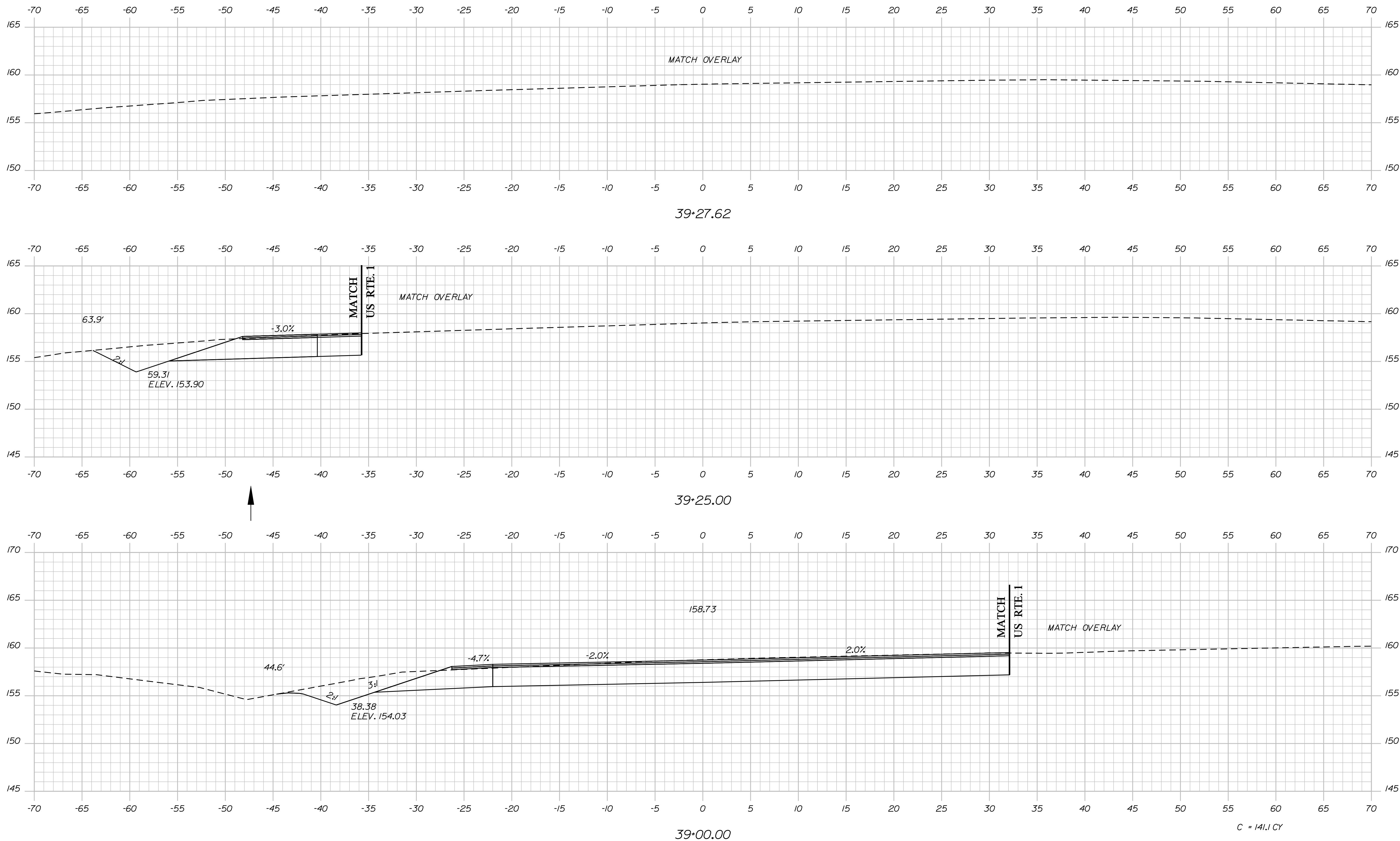
BRUNSWICK  
US RTE. 1 \ DURHAM RD.  
CROSS SECTIONS

SHEET NUMBER  
**35**  
OF 39

Date: 3/28/2012

Username: rhobe.moulton

Filename: ... \036\_Xsect\_DurhamRd\_39-00\_010.dgn Division: HIGHWAY



|  |           |                 |             |
|--|-----------|-----------------|-------------|
| STATE OF MAINE<br>DEPARTMENT OF TRANSPORTATION |           | STP-1724(100)X  |             |
| BRUNSWICK<br>US RTE. 1 \ DURHAM RD.            |           | CROSS SECTIONS  |             |
| SHEET NUMBER                                   |           | HIGHWAY PLANS   |             |
| 36   |           | WIN<br>17241.00 |             |
| OF 39  |           | DATE            |             |
| PROJ. MANAGER                                  | BY        | DATE            | SIGNATURE   |
| DESIGN DETAILED                                | BT TRAN   | JUN 2011        |             |
| CHECKED-REVIEWED                               | J. FRENCH |                 |             |
| DESIGNS DET AILED                              |           |                 | P.E. NUMBER |
| REVISIONS 1                                    |           |                 |             |
| REVISIONS 2                                    |           |                 |             |
| REVISIONS 3                                    |           |                 |             |
| REVISIONS 4                                    |           |                 |             |
| FIELD CHANGES                                  |           |                 |             |

Date: 3/28/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \000\ROW\MSTA001\_RWPLAN1.dgn

FINAL SUBDIVISION PLAN PERREAULT RIDGE  
 FOR JOHN PERREAULT  
 BY SITELINES P.A., KEVIN P. CLARK, PLS  
 PLAN DATE - APRIL 12, 2005  
 LAST REVISION DATE - APRIL 12, 2005  
 PROJECT NO. 964  
 CUMBERLAND COUNTY REGISTRY OF DEEDS  
 PLAN BOOK 205 PAGE 274  
 RECORDING DATE - MAY 5, 2005

T & T, LLC  
 PARCEL NO. (2)  
 LAND TAKEN = 0.23± AC. (1)  
 SLOPE EASE = 0.12± AC. (3)  
 TEMP. CONST. RIGHTS = 0.31± AC. (3)  
 TOTAL AREA = 4.78± AC. (SURVEY)  
 REM. AREA = 4.55± AC.

**DURHAM RD.**  
 CURVE DATA #1  
 PI = 33+37.64  
 D = 4°05'33.2"  
 Δ = 3°39'57.0" Lt.  
 R = 1400.00'  
 L = 89.57'  
 T = 44.80'  
 E = 0.72'

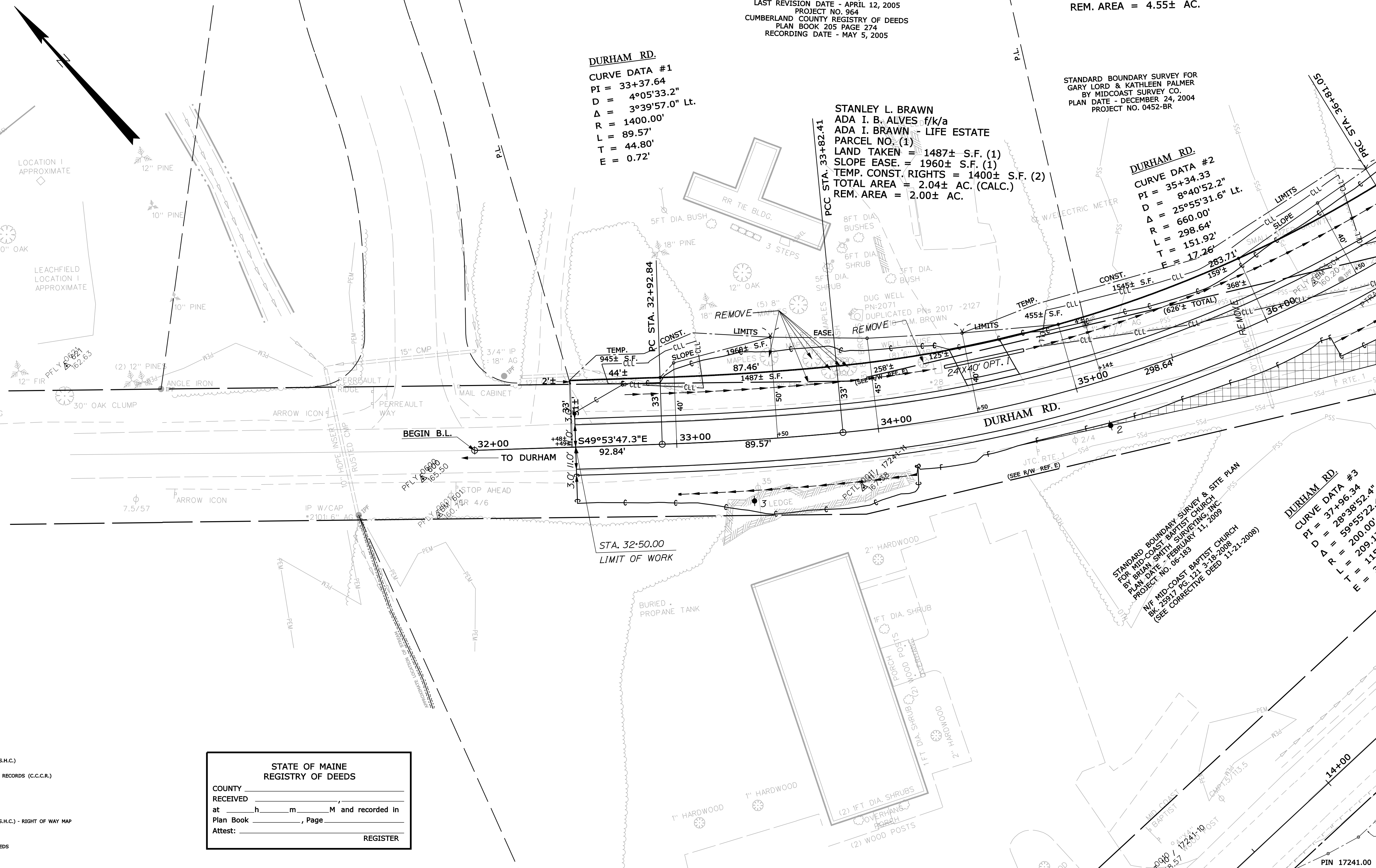
STANLEY L. BRAUN  
 ADA I. B. ALVES f/k/a  
 ADA I. BRAUN - LIFE ESTATE  
 PARCEL NO. (1)  
 LAND TAKEN = 1487± S.F. (1)  
 SLOPE EASE = 1960± S.F. (1)  
 TEMP. CONST. RIGHTS = 1400± S.F. (2)  
 TOTAL AREA = 2.04± AC. (CALC.)  
 REM. AREA = 2.00± AC.

**DURHAM RD.**  
 CURVE DATA #2  
 PI = 35+34.33  
 D = 8°40'52.2"  
 Δ = 25°55'31.6" Lt.  
 R = 660.00'  
 L = 298.64'  
 T = 151.92'  
 E = 17.26'

STANDARD BOUNDARY SURVEY FOR  
 GARY LORD & KATHLEEN PALMER  
 BY MIDCOAST SURVEY CO.  
 PLAN DATE - DECEMBER 24, 2004  
 PROJECT NO. 0452-BR

**DURHAM RD.**  
 CURVE DATA #3  
 PI = 37+96.34  
 D = 28°38'52.4"  
 Δ = 59°55'22.4" R  
 R = 200.00'  
 L = 115.29'  
 T = 30.85'

STANDARD BOUNDARY SURVEY & SITE PLAN  
 FOR MIDCOAST BAPTIST CHURCH  
 FOR BRAN SWITH SURVEYING INC.  
 PLAN DATE - FEBRUARY 11, 2009  
 PROJECT NO. 06-183  
 WF MIDCOAST BAPTIST CHURCH  
 BK 25817 PG 121 3-B-2008  
 (SEE CORRECTIVE DEED 11-21-2008)



EXISTING RIGHT OF WAY REFERENCES  
 US ROUTE #1:  
 A) MAINE STATE RIGHT OF WAY MAP  
 STATE AID HIGHWAY NO. 5  
 "DEEP CUT BRIDGE" OVER M.C.R.R.  
 BRUNSWICK, CUMBERLAND COUNTY  
 PLAN DATE - NOVEMBER 1982  
 D.O.T. FILE NO. 3 - 359  
 B) MAINE STATE HIGHWAY COMMISSION (S.H.C.)  
 PROJ. 120 - D  
 S.H.C. FILE NO. 3-7  
 C) CUMBERLAND COUNTY COMMISSIONERS RECORDS (C.C.C.R.)  
 VOLUME 6, PAGE 1  
 1830 4 RODS WIDE (66')  
 D) MAINE CENTRAL RAILROAD COMPANY  
 RIGHT OF WAY AND TRACK MAP  
 VAL. SEC. 1 - MAP NO. 20 & 21  
 PLAN DATE - JUNE 30, 1916  
 DURHAM ROAD:  
 E) MAINE STATE HIGHWAY COMMISSION (S.H.C.) - RIGHT OF WAY MAP  
 STATE AID HIGHWAY NO. 2  
 BRUNSWICK, CUMBERLAND COUNTY  
 PLAN DATE - FEBRUARY 1967  
 S.H.C. FILE NO. 5 - 3 - 319  
 CUMBERLAND COUNTY REGISTRY OF DEEDS  
 PLAN BOOK 3162 PAGE 65

STATE OF MAINE  
 REGISTRY OF DEEDS

COUNTY \_\_\_\_\_  
 RECEIVED \_\_\_\_\_  
 at \_\_\_\_\_ h \_\_\_\_\_ m \_\_\_\_\_ M and recorded in  
 Plan Book \_\_\_\_\_, Page \_\_\_\_\_  
 Attest: \_\_\_\_\_ REGISTER

SYMBOLS

|                                 |  |
|---------------------------------|--|
| • or • (IRON PIPE OR PIN FOUND) | ○ (WELL)                               |
| □ (SEPTIC TANK)                 | — (GRADING LIMIT LINE)                 |
| □ (TRAVERSE POINT)              | — (CONSTRUCTION LIMIT LINE)            |
| — (WATER LINE)                  | — (PROPERTY LINE)                      |
| — (GAS LINE)                    | — (LIMITS OF WROUGHT PORTION (LOW P.)) |
| — (ELECTRIC LINE)               | — (EXISTING RIGHT OF WAY)              |
| — (TELEPHONE LINE)              | — (NEW RIGHT OF WAY)                   |
| — (SEWER LINE)                  | — (NEW ROW WITHIN EXIST. ROW)          |
|                                 | — (CONTROL OF ACCESS)                  |

ITEM CHECKED

|            |        |             |        |
|------------|--------|-------------|--------|
| BASE MAP   |        | TECH        |        |
| EXIST. R/W | N.B.D. | PROP. LINES | N.B.D. |
| AREAS      | T.J.K. |             | T.L.B. |

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016  
 BRUNSWICK  
 RIGHT OF WAY MAP

| NO. | DATE | REVISIONS DESCRIPTION | BY | PLAN FILED IN PLAN BOOK |         | PAGE       |      | COUNTY RECORD |      | DAVID BERNHARDT<br>COMMISSIONER<br>KENNETH L. SWEENEY<br>CHIEF ENGINEER |
|-----|------|-----------------------|----|-------------------------|---------|------------|------|---------------|------|---|
|     |      |                       |    | NO.                     | GRANTOR | INSTRUMENT | DATE | BOOK          | PAGE |   |
|     |      |                       |    |                         |         |            |      |               |      |   |
|     |      |                       |    |                         |         |            |      |               |      |   |
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|     |      |                       |    |                         |         |            |      |               |      |   |
|     |      |                       |    |                         |         |            |      |               |      |   |
|     |      |                       |    |                         |         |            |      |               |      |   |

DURHAM ROAD  
 BRUNSWICK CUMBERLAND COUNTY  
 FEDERAL AID PROJECT NO. STP-1724(100)X

DECEMBER 2011  
 SCALE 1" = 25'

RIGHT-OF-WAY MAP  
 SHEET 1 OF 3

D.O.T. FILE NO. 3 - 580

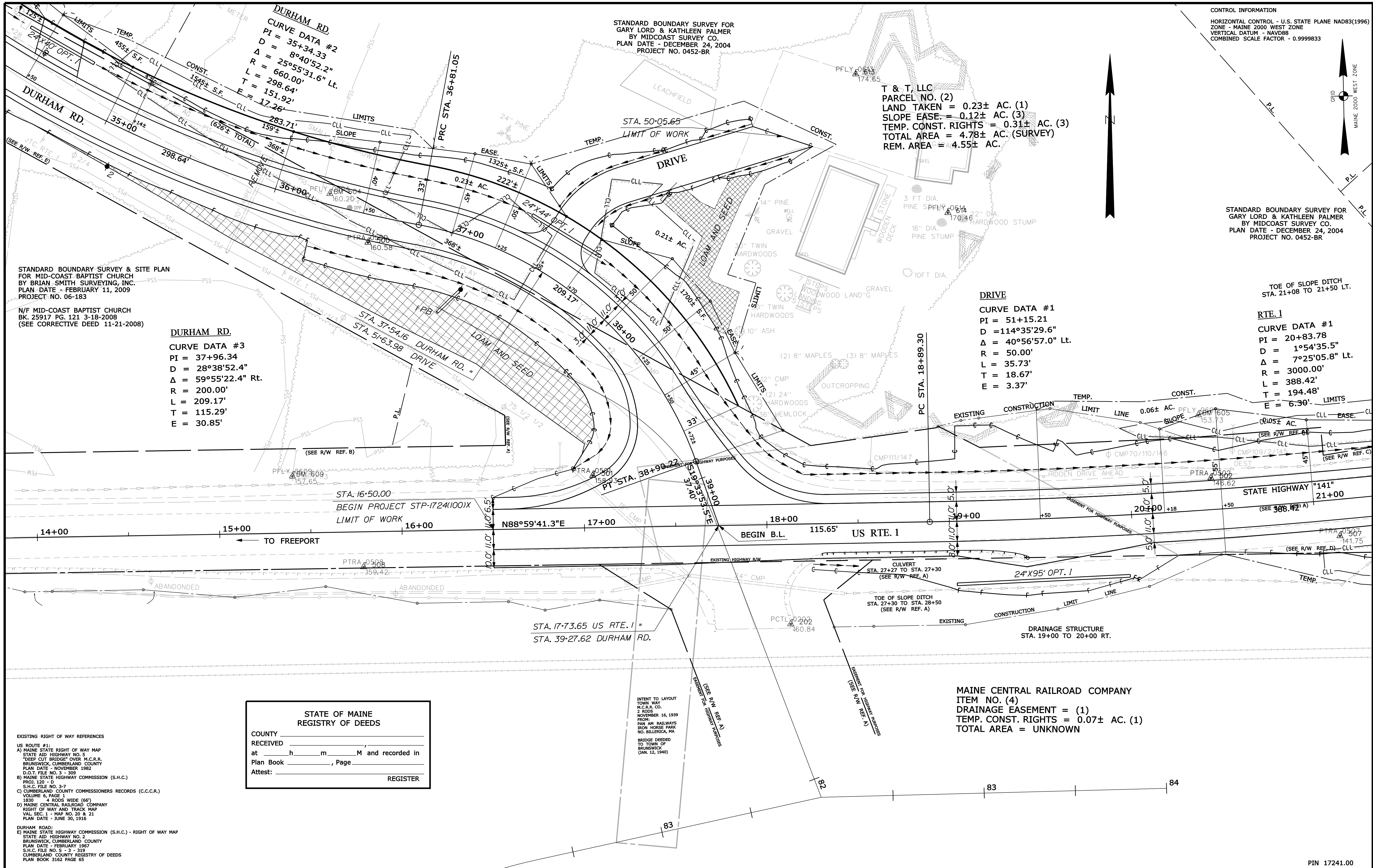
DATE \_\_\_\_\_

SHEET NUMBER

37

OF 39

Filename: ... \00\ROW\MSTA002\_RWPLAN2.dgn Division: HIGHWAY Username: rhobe.moulton Date: 3/28/2012



STANDARD BOUNDARY SURVEY & SITE PLAN FOR MID-COAST BAPTIST CHURCH BY BRIAN SMITH SURVEYING, INC. PLAN DATE - FEBRUARY 11, 2009 PROJECT NO. 06-183

N/F MID-COAST BAPTIST CHURCH BK. 25917 PG. 121 3-18-2008 (SEE CORRECTIVE DEED 11-21-2008)

**DURHAM RD.**  
 CURVE DATA #3  
 PI = 37+96.34  
 D = 28°38'52.4"  
 Δ = 59°55'22.4" Rt.  
 R = 200.00'  
 L = 209.17'  
 T = 115.29'  
 E = 30.85'

STANDARD BOUNDARY SURVEY FOR GARY LORD & KATHLEEN PALMER BY MIDCOAST SURVEY CO. PLAN DATE - DECEMBER 24, 2004 PROJECT NO. 0452-BR

T & T, LLC  
 PARCEL NO. (2)  
 LAND TAKEN = 0.23± AC. (1)  
 SLOPE EASE. = 0.12± AC. (3)  
 TEMP. CONST. RIGHTS = 0.31± AC. (3)  
 TOTAL AREA = 4.78± AC. (SURVEY)  
 REM. AREA = 4.55± AC.

**DRIVE**  
 CURVE DATA #1  
 PI = 51+15.21  
 D = 114°35'29.6"  
 Δ = 40°56'57.0" Lt.  
 R = 50.00'  
 L = 35.73'  
 T = 18.67'  
 E = 3.37'

**RTE. 1**  
 CURVE DATA #1  
 PI = 20+83.78  
 D = 1°54'35.5"  
 Δ = 7°25'05.8" Lt.  
 R = 3000.00'  
 L = 388.42'  
 T = 194.48'  
 E = 6.30'

CONTROL INFORMATION  
 HORIZONTAL CONTROL - U.S. STATE PLANE NAD83(1996)  
 ZONE - MAINE 2000 WEST ZONE  
 VERTICAL DATUM - NAVD88  
 COMBINED SCALE FACTOR - 0.9999833

STANDARD BOUNDARY SURVEY FOR GARY LORD & KATHLEEN PALMER BY MIDCOAST SURVEY CO. PLAN DATE - DECEMBER 24, 2004 PROJECT NO. 0452-BR

TOE OF SLOPE DITCH STA. 21+08 TO 21+50 LT.

EXISTING RIGHT OF WAY REFERENCES  
 US ROUTE #1:  
 A) MAINE STATE RIGHT OF WAY MAP STATE AID HIGHWAY NO. 5 "DEEP CUT BRIDGE" OVER M.C.R.R., BRUNSWICK, CUMBERLAND COUNTY PLAN DATE - NOVEMBER 1982 D.O.T. FILE NO. 3 - 309  
 B) MAINE STATE HIGHWAY COMMISSION (S.H.C.) PROJ. 120 - D S.H.C. FILE NO. 3-7  
 C) CUMBERLAND COUNTY COMMISSIONERS RECORDS (C.C.C.R.) VOLUME 6, PAGE 1 1830 4 RODS WIDE (66')  
 D) MAINE CENTRAL RAILROAD COMPANY RIGHT OF WAY AND TRACK MAP VAL. SEC. 1 - MAP NO. 20 & 21 PLAN DATE - JUNE 30, 1916  
 DURHAM ROAD:  
 E) MAINE STATE HIGHWAY COMMISSION (S.H.C.) - RIGHT OF WAY MAP STATE AID HIGHWAY NO. 2 BRUNSWICK, CUMBERLAND COUNTY PLAN DATE - FEBRUARY 1967 S.H.C. FILE NO. 3 - 319  
 CUMBERLAND COUNTY REGISTRY OF DEEDS PLAN BOOK 3162 PAGE 69

STATE OF MAINE  
 REGISTRY OF DEEDS  
 COUNTY \_\_\_\_\_  
 RECEIVED \_\_\_\_\_  
 at \_\_\_\_\_ h \_\_\_\_\_ m \_\_\_\_\_ M and recorded in  
 Plan Book \_\_\_\_\_, Page \_\_\_\_\_  
 Attest: \_\_\_\_\_ REGISTER

INTENT TO LAYOUT TOWN WAY M.C.R.R. CO. 2 RODS NOVEMBER 16, 1939 FROM: PAN AM RAILWAYS IRON HORSE PARK NO. BILDERICK, MA. BRIDGE DEEDED TO TOWN OF BRUNSWICK (JAN. 12, 1940)

MAINE CENTRAL RAILROAD COMPANY  
 ITEM NO. (4)  
 DRAINAGE EASEMENT = (1)  
 TEMP. CONST. RIGHTS = 0.07± AC. (1)  
 TOTAL AREA = UNKNOWN

| ITEM        | TECH   | CHECKED |
|-------------|--------|---------|
| BASE MAP    |        |         |
| EXIST. R/W  | N.B.D. |         |
| PROP. LINES | N.B.D. |         |
| AREAS       | T.J.K. | T.L.B.  |

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 16 STATE HOUSE STATION - AUGUSTA, ME. 04333-0016  
 BRUNSWICK  
 RIGHT OF WAY MAP

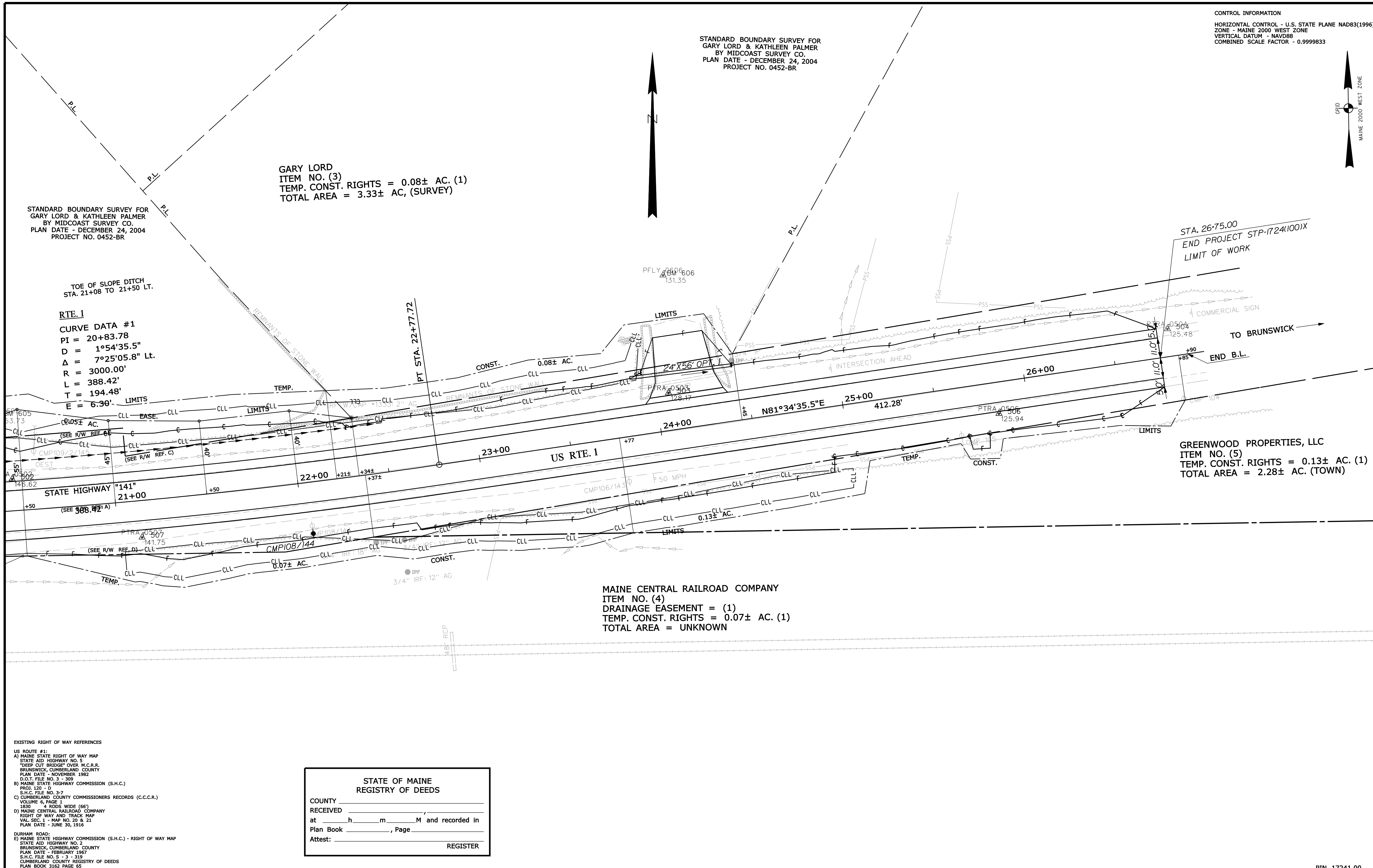
| NO. | DATE | REVISIONS DESCRIPTION | BY | PLAN FILED IN PLAN BOOK |         |      |  | COUNTY RECORD |      |      |      | DAVID BERNHARDT<br>COMMISSIONER<br>KENNETH L. SWEENEY<br>CHIEF ENGINEER<br>DATE |  |
|-----|------|-----------------------|----|-------------------------|---------|------|--|---------------|------|------|------|---|--|
|     |      |                       |    | NO.                     | GRANTOR | PAGE |  | INSTRUMENT    | DATE | BOOK | PAGE |   |  |
|     |      |                       |    |                         |         |      |  |               |      |      |      |   |  |

STATE OF MAINE  
 CHRISTOPHER W. KNIGHT  
 2257  
 PROFESSIONAL LAND SURVEYOR

STATE HIGHWAY "141"  
 U.S. RTE. 1/DURHAM RD.  
 BRUNSWICK CUMBERLAND COUNTY  
 FEDERAL AID PROJECT NO. STP-1724(100)X  
 DECEMBER 2011 RIGHT-OF-WAY MAP SCALE 1" = 25' SHEET 2 OF 3  
 D.O.T. FILE NO. 3 - 580

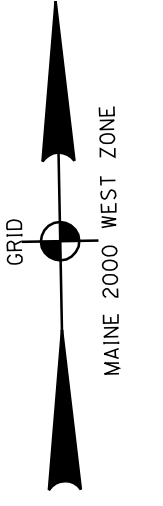
SHEET NUMBER  
**38**  
 OF 39

Filename: ... \00\ROW\MSTA003\_RWPLAN3.dgn Division: HIGHWAY Username: rhobe.moulton Date: 3/28/2012



**CONTROL INFORMATION**  
HORIZONTAL CONTROL - U.S. STATE PLANE NAD83(1996)  
ZONE - MAINE 2000 WEST ZONE  
VERTICAL DATUM - NAVD88  
COMBINED SCALE FACTOR - 0.9999833

STANDARD BOUNDARY SURVEY FOR GARY LORD & KATHLEEN PALMER BY MIDCOAST SURVEY CO. PLAN DATE - DECEMBER 24, 2004 PROJECT NO. 0452-BR



**SYMBOLS**

|     |                                    |
|-----|------------------------------------|
| ●   | IP or PIP (IRON PIPE OR PIN FOUND) |
| ○   | WELL                               |
| --- | GRADING LIMIT LINE                 |
| --- | CONSTRUCTION LIMIT LINE            |
| --- | PROPERTY LINE                      |
| --- | LIMITS OF TROUGHT PORTION (LOWP.)  |
| --- | EXISTING RIGHT OF WAY              |
| --- | NEW RIGHT OF WAY                   |
| --- | NEW ROW WITHIN EXIST. ROW          |
| --- | CONTROL OF ACCESS                  |
| ○   | SEWER                              |
| ○   | WATER LINE                         |
| ○   | GAS LINE                           |
| ○   | ELECTRIC LINE                      |
| ○   | TELEPHONE LINE                     |
| ○   | SEWER LINE                         |

| ITEM        | TECH   | CHECKED |
|-------------|--------|---------|
| BASE MAP    |        |         |
| EXIST. R/W  | N.B.D. |         |
| PROP. LINES | N.B.D. |         |
| AREAS       | T.J.K. | T.L.B.  |

**STATE OF MAINE**  
**REGISTRY OF DEEDS**

COUNTY \_\_\_\_\_  
RECEIVED \_\_\_\_\_  
at \_\_\_\_\_ h \_\_\_\_\_ m \_\_\_\_\_ M and recorded in  
Plan Book \_\_\_\_\_, Page \_\_\_\_\_  
Attest: \_\_\_\_\_ REGISTER

| NO. | DATE | REVISIONS DESCRIPTION | BY | PLAN FILED IN PLAN BOOK |         |            |      | COUNTY RECORD |      |       |         |       |     |  |  |
|-----|------|-----------------------|----|-------------------------|---------|------------|------|---------------|------|-------|---------|-------|-----|--|--|
|     |      |                       |    | NO.                     | GRANTOR | INSTRUMENT | DATE | BOOK          | PAGE | COND. | 3-12-12 | 29411 | 170 |  |  |
|     |      |                       |    |                         |         |            |      |               |      |       |         |       |     |  |  |

DAVID BERNHARDT  
COMMISSIONER  
KENNETH L. SWEENEY  
CHIEF ENGINEER

DATE \_\_\_\_\_

STATE HIGHWAY "141"  
U.S. RTE. 1  
BRUNSWICK CUMBERLAND COUNTY  
FEDERAL AID PROJECT NO. STP-1724(100)X

DECEMBER 2011  
SCALE 1" = 25'

RIGHT-OF-WAY MAP  
SHEET 3 OF 3

D.O.T. FILE NO. 3 -580

SHEET NUMBER  
**39**  
OF 39

PIN 17241.00