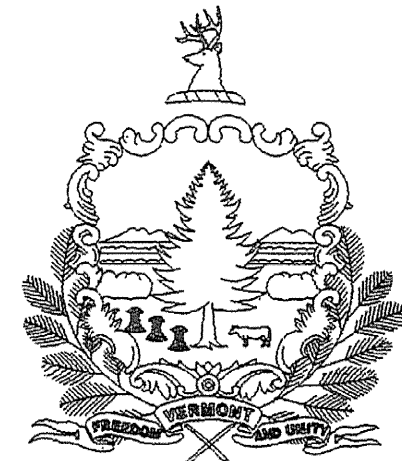


STATE OF VERMONT  
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT  
TOWN OF SPRINGFIELD  
COUNTY OF WINDSOR  
STATE NUMBERED ROUTE 143,  
CLASS II TOWN HIGHWAY

BEGINNING AT STATION 63+00 (MM 1.00) ON TOWN HIGHWAY 143 IN THE TOWN OF SPRINGFIELD  
AND EXTENDING EASTERLY FOR A DISTANCE OF 25064 FEET (4.747 MILES) TO THE END OF THE  
PROJECT AT STATION 313+63.61 (MM 5.75) AND THE U.S. ROUTE 5 INTERSECTION.

LENGTH OF PROJECT = 25064 FEET = 4.747 MILES

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES RECLAIMING, COLD PLANING  
AND RESURFACING, NEW PAVEMENT MARKINGS, GUARDRAIL, SIGNS, AND OTHER RELATED ITEMS.

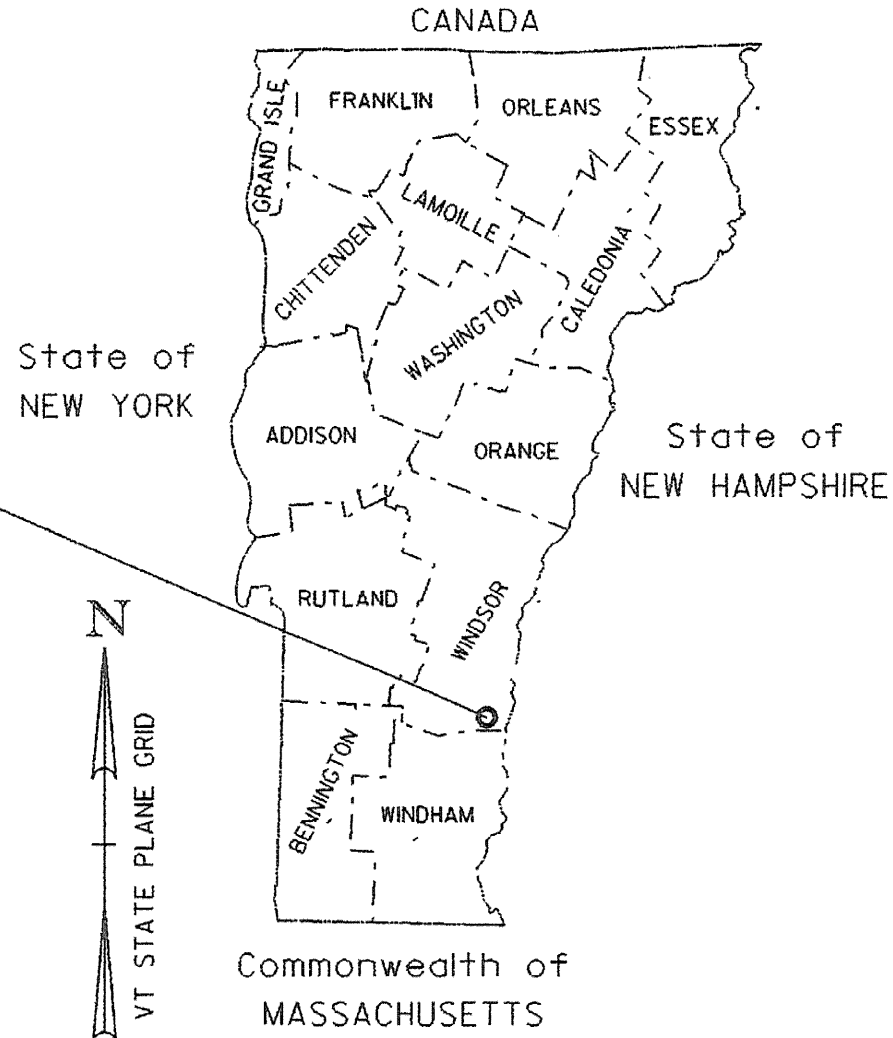
TRAFFIC DATA

| HIGHWAY<br>SECTION                    | ADT  |      | DHV  |      | %T   |      | %D   |      | ADTT |      | FLEXIBLE ESALs |         |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|----------------|---------|
|                                       | 2008 | 2028 | 2008 | 2028 | 2008 | 2028 | 2008 | 2028 | 2008 | 2028 | (08-28)        | (08-48) |
| HARTNESS STREET TO<br>MAPLE DELL ROAD | 1000 | 1300 | 110  | 150  | 5.3  | 8.1  | 54   | 54   | 50   | 100  | 258,000        | 639,000 |
| MAPLE DELL ROAD<br>TO EUREKA RD       | 880  | 1100 | 100  | 120  | 5.1  | 8.1  | 55   | 55   | 40   | 80   | 192,000        | 478,000 |
| EUREKA ROAD<br>TO US ROUTE 5          | 510  | 630  | 55   | 70   | 7.2  | 12.1 | 59   | 59   | 30   | 60   | 109,000        | 278,000 |

MAJOR COLLECTOR - TOWN HIGHWAY

BITUMINOUS CONCRETE SUPERPAVE MIXTURE DESIGN CRITERIA

|                                  |                                                          |
|----------------------------------|----------------------------------------------------------|
| DESIGN LANE/DESIGN LIFE ESAL     | 152,000                                                  |
| DESIGN NUMBER OF GYRATIONS       | 75                                                       |
| PERFORMANCE GRADE ASPHALT BINDER | SEE PROJECT GENERAL<br>SPECIAL PROVISIONS<br>SECTION 490 |



END STP 0136(1)  
MM 5.75 = 313+63.61

RECORD PLANS

CONTRACTOR: LANE CONSTRUCTION CORP. - MERIDAN, CT  
RESIDENT ENGINEER: DAN BREER  
CONSTRUCTION BEGAN: APRIL 20, 2009  
CONSTRUCTION COMPLETE: OCTOBER 28, 2009  
RECORD PLANS BY: DAN BREER & CHIP PIERCE  
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET  
OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.  
BY D. Breer RESIDENT ENGINEER  
DATE 3/17/10

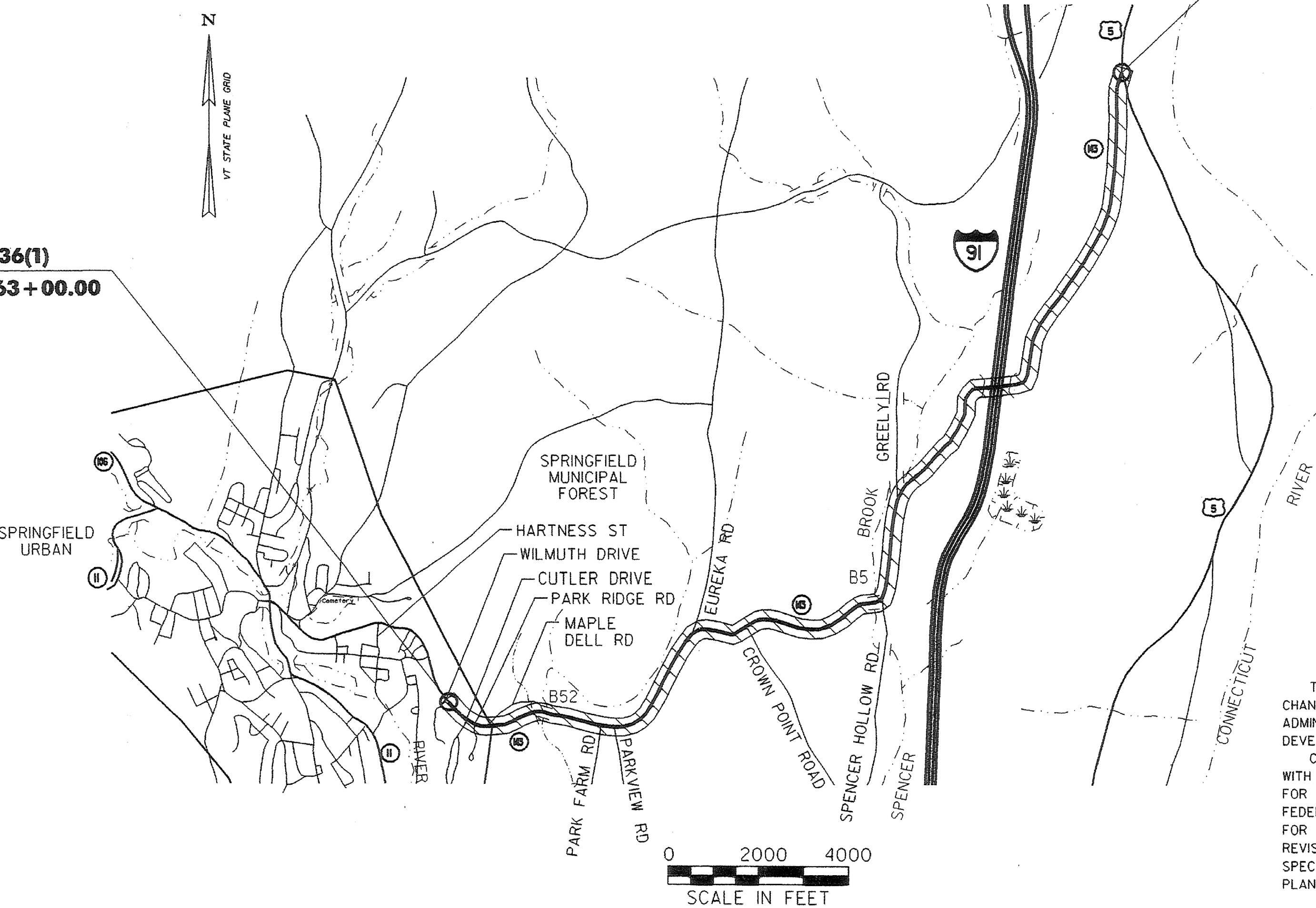
NOTE: Any further information concerning final quantities, amounts or other details  
relative to this project may be found at Central Files in the electronic archives.

CONVENTIONAL SYMBOLS

|                    |  |
|--------------------|--|
| COUNTY LINE        |  |
| TOWN LINE          |  |
| LIMITS OF ACCESS   |  |
| POINT OF ACCESS    |  |
| FENCE LINE         |  |
| STONE WALL         |  |
| TRAVELED WAY       |  |
| GUARD RAIL         |  |
| RAILROAD           |  |
| SURVEY LINE        |  |
| CULVERT            |  |
| POWER POLE         |  |
| TELEPHONE POLE     |  |
| TREES              |  |
| CONTROL OF ACCESS  |  |
| PROPERTY LINE      |  |
| R.O.W. TAKING LINE |  |
| SLOPE RIGHTS       |  |
| TOP OF CUT         |  |
| TOE OF SLOPE       |  |

SURVEYED BY : R. GILMAN  
SURVEYED DATE : OCTOBER 31, 2005

DATUM  
VERTICAL NAVD 88  
HORIZONTAL NAD 83 (96)



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING  
CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY  
ADMINISTRATION OR THE DIRECTOR OF PROGRAM  
DEVELOPMENT.  
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE  
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS  
FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE  
FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006  
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT  
REVISIONS AND SUCH REVISED SPECIFICATIONS AND  
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE  
PLANS.

RIGHT-OF-WAY LIMITS, IF APPLICABLE, ARE PROVIDED  
SOLELY FOR THE CONVENIENCE OF THE STATE AND ITS  
CONTRACTOR DURING THE COURSE OF THIS PAVING  
PROJECT. ANY REFERENCES TO OFFSETS ON THESE  
PLANS ARE APPROXIMATE AND SHOULD NOT BE RELIED  
UPON FOR ANY OTHER PURPOSES.

DIRECTOR OF PROGRAM DEVELOPMENT  
APPROVED Peter F. Schmitt DATE 12-30-08  
PROJECT MANAGER : K. UPMAL  
PROJECT NAME : SPRINGFIELD  
PROJECT NUMBER : STP 0136 (1)  
SHEET 1 OF 68 SHEETS



INDEX OF SHEETS

|       |                                 |
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| 1     | TITLE SHEET                     |
| 2     | INDEX SHEET                     |
| 3-6   | TYPICAL SHEETS                  |
| 7     | BLANK                           |
| 8-10  | QUANTITY SHEETS                 |
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| 61-66 | TRAFFIC SIGN SUMMARY SHEETS     |
| 67    | SIGN DETAIL SHEET               |
| 68    | TEMPORARY TRAFFIC CONTROL SHEET |

VAOT DESIGN STANDARDS

|          |                                                                                                                           |            |
|----------|---------------------------------------------------------------------------------------------------------------------------|------------|
| C-2A     | PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK ADJACENT TO CURB                                          | 10/14/2005 |
| C-2B     | PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK AND GREEN SPACE                                           | 10/14/2005 |
| C-10     | CURBING                                                                                                                   | 2/11/2008  |
| D-30     | UNDERDRAIN CONSTRUCTION DETAILS                                                                                           | 8/13/07    |
| E-100    | CONSTRUCTION APPROACH SIGNS                                                                                               | 1/2/2004   |
| E-100A   | SIDE ROAD CONSTRUCTION - APPROACH SIGNS                                                                                   | 1/2/2004   |
| E-101    | CONSTRUCTION SIGN DETAILS                                                                                                 | 5/30/2003  |
| E-102    | CONSTRUCTION SIGN DETAILS                                                                                                 | 6/30/2003  |
| E-103    | MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED                                                                  | 3/1/2004   |
| E-106    | TRAFFIC CONTROL - MISCELLANEOUS DETAILS                                                                                   | 3/1/2004   |
| E-108A   | LONGITUDINAL DROP-OFFS FOR PAVING                                                                                         | 12/8/2008  |
| E-110    | MAJOR MAINTENANCE OPERATION LANE CLOSURE                                                                                  | 8/8/1995   |
| E-111    | MINOR MAINTENANCE OPERATIONS                                                                                              | 3/11/1997  |
| E-121    | STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD                                                                               | 8/8/1995   |
| E-123    | GUIDE SIGN PLACEMENT - MISCELLANEOUS DETAILS                                                                              | 3/16/2004  |
| E-127    | ROUTE MARKINGS AT RURAL INTERSECTIONS                                                                                     | 8/8/1995   |
| E-136A   | U.S.ROUTE MARKER SIGN DETAILS                                                                                             | 8/8/1995   |
| E-136C   | STATE NUMBERED TOWN HIGHWAY SIGN DETAILS                                                                                  | 8/8/1995   |
| E-138    | MILEMARKER DETAILS - STATE & TOWN HIGHWAYS                                                                                | 5/30/2003  |
| E-141    | REGULATORY SIGN DETAILS                                                                                                   | 9/20/1995  |
| E-142    | REGULATORY SIGN DETAILS                                                                                                   | 9/20/1995  |
| E-143    | REGULATORY SIGN DETAILS                                                                                                   | 6/15/2004  |
| E-150    | WARNING SIGN DETAILS                                                                                                      | 5/1/2004   |
| E-151    | WARNING SIGN DETAILS                                                                                                      | 5/1/2004   |
| E-152    | WARNING SIGN DETAILS                                                                                                      | 5/1/2004   |
| E-155    | WARNING SIGN DETAILS                                                                                                      | 5/1/2004   |
| G-1      | STEEL BEAM GUARDRAIL (50 MPH & OVER) HEAVY DUTY STEEL BEAM GUARDRAIL TWISTED END TERMINAL ANCHOR FOR STEEL BEAM RAIL      | 1/3/2000   |
| G-1D     | STEEL BEAM GUARDRAIL (40 MPH & LESS) HEAVY DUTY STEEL BEAM GUARDRAIL STEEL BEAM MEDIAN BARRIER ANCHOR FOR STEEL BEAM RAIL | 1/3/2000   |
| G-4      | MARKERS - GUIDE POSTS - PLANK GUARD RAIL PLANK RAIL GUIDE POSTS WOOD MARKER POSTS STEEL MARKER POSTS                      | 6/1/1994   |
| J-3      | MAILBOX SUPPORT DETAILS                                                                                                   | 8/7/1995   |
| SB-R6-82 | BRIDGE RAILING - HEAVY DUTY STEEL BEAM                                                                                    | 1/6/1995   |

INDEX SHEET

|                                        |                        |
|----------------------------------------|------------------------|
| PROJECT NAME:                          | SPRINGFIELD            |
| PROJECT NUMBER:                        | STP 0136(1)            |
| FILE NAME: ...02c084\...02c084_frm.dgn | PLOT DATE: 30-DEC-2008 |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: N. PAPPAS    |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS  |
| IPARM FILE NAME: 02c084_index          | SHEET 2 OF 68          |

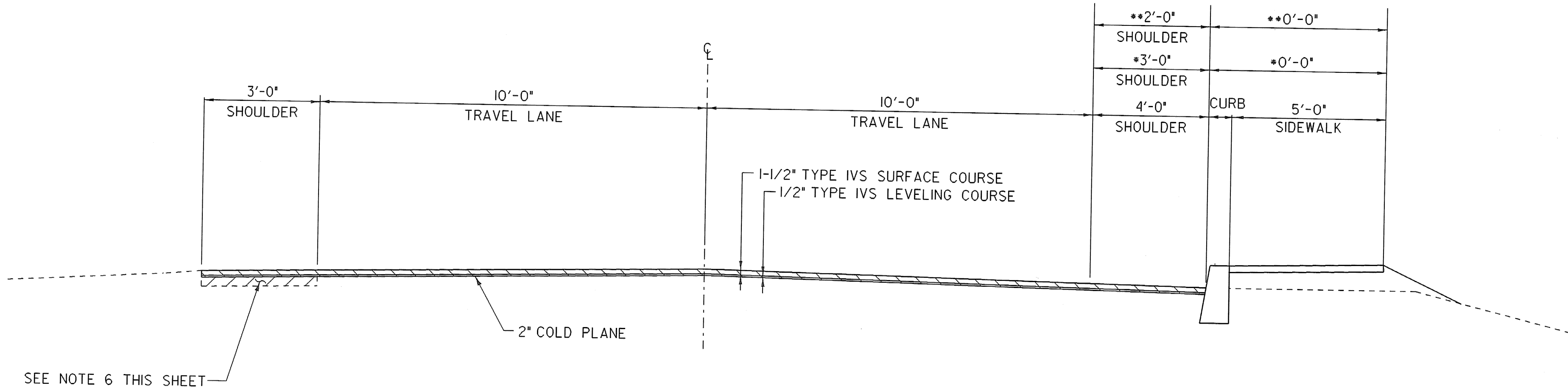


VT ROUTE 143 TYPICAL SECTION

STA 63+00 TO 70+20  
\*STA 70+20 TO 116+75  
\*\*STA 116+75 TO 131+00

2" COLD PLANE  
1/2" TYPE IVS LEVELING COURSE  
1-1/2" TYPE IVS SURFACE COURSE

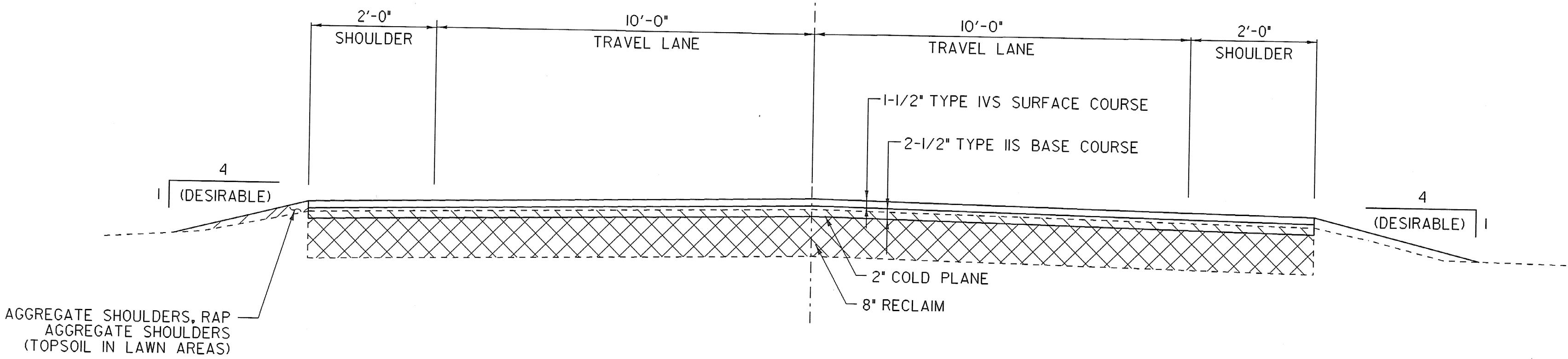
NOTE: SEE TABLE ON THIS SHEET FOR PROJECT PAVING LIMITS.



VT ROUTE 143 TYPICAL SECTION

STA 131+00 TO 136+50  
STA 136+75 TO 159+46  
STA 159+55 TO 174+62  
175+00 TO 313+63.61

2" COLD PLANE  
8" RECLAIM  
2-1/2" TYPE IIS BASE COURSE  
1-1/2" TYPE IVS SURFACE COURSE



PROJECT PAVING LIMITS

| TOWN AND ROUTE | BEGIN STATION | END STATION | LANE TYPICAL             | SURFACE DEPTH | LEVELING TON | NOTES                                                                                   |
|----------------|---------------|-------------|--------------------------|---------------|--------------|-----------------------------------------------------------------------------------------|
| VT 143         | 63+00         | 70+20       | 3FT - 10FT - 10FT - 4 FT | 1 1/2 "       | 60           | 2" COLD PLANE, 1/2" TYPE IVS LEVELING COURSE, 1-1/2" TYPE IVS SURFACE COURSE            |
| VT 143         | 70+20         | 116+75      | 3FT - 10FT - 10FT - 3FT  | 1 1/2 "       | 374          | 2" COLD PLANE, 1/2" TYPE IVS LEVELING COURSE, 1-1/2" TYPE IVS SURFACE COURSE            |
| VT 143         | 116+75        | 131+00      | 2FT - 10FT - 10FT - 2FT  | 1 1/2 "       | 97           | 2" COLD PLANE, 1/2" TYPE IVS LEVELING COURSE, 1-1/2" TYPE IVS SURFACE COURSE            |
| VT 143         | 131+00        | 136+50      | 2FT - 10FT - 10FT - 2FT  | 2 "           | 0            | 2" COLD PLANE, 8" RECLAIM, 2-1/2" TYPE IIS BASE COURSE, 1-1/2" TYPE IVS SURFACE COURSE  |
| VT 143         | 136+50        | 136+75      | 2FT - 10FT - 10FT - 2FT  | 1 1/2 "       | 2            | BRIDGE: 2" COLD PLANE, 1/2" TYPE IVS LEVELING COURSE, 1-1/2" TYPE IVS SURFACE COURSE    |
| VT 143         | 136+75        | 159+46      | 2FT - 10FT - 10FT - 2FT  | 2 "           | 0            | 2" COLD PLANE, 8" RECLAIM, 2-1/2" TYPE IIS BASE COURSE, 1-1/2" TYPE IVS SURFACE COURSE  |
| VT 143         | 159+46        | 159+54      | 2FT - 10FT - 10FT - 2FT  | 1 1/2 "       | 1            | BRIDGE: 2" COLD PLANE, 1/2" TYPE IVS LEVELING COURSE, 1-1/2" TYPE IVS SURFACE COURSE    |
| VT 143         | 159+54        | 174+62      | 2FT - 10FT - 10FT - 2FT  | 2 "           | 0            | 2" COLD PLANE, 8" RECLAIM, 2-1/2" TYPE IIS BASE COURSE, 1-1/2" TYPE IVS SURFACE COURSE  |
| VT 143         | 174+62        | 175+00      | 9FT - 9FT                | 1 1/2 "       | 2            | BRIDGE *5: 2" COLD PLANE, 1/2" TYPE IVS LEVELING COURSE, 1-1/2" TYPE IVS SURFACE COURSE |
| VT 143         | 175+00        | 313+63.61   | 2FT - 10FT - 10FT - 2FT  | 2 "           | 0            | 2" COLD PLANE, 8" RECLAIM, 2-1/2" TYPE IIS BASE COURSE, 1-1/2" TYPE IVS SURFACE COURSE  |

NOT TO SCALE

GENERAL NOTES

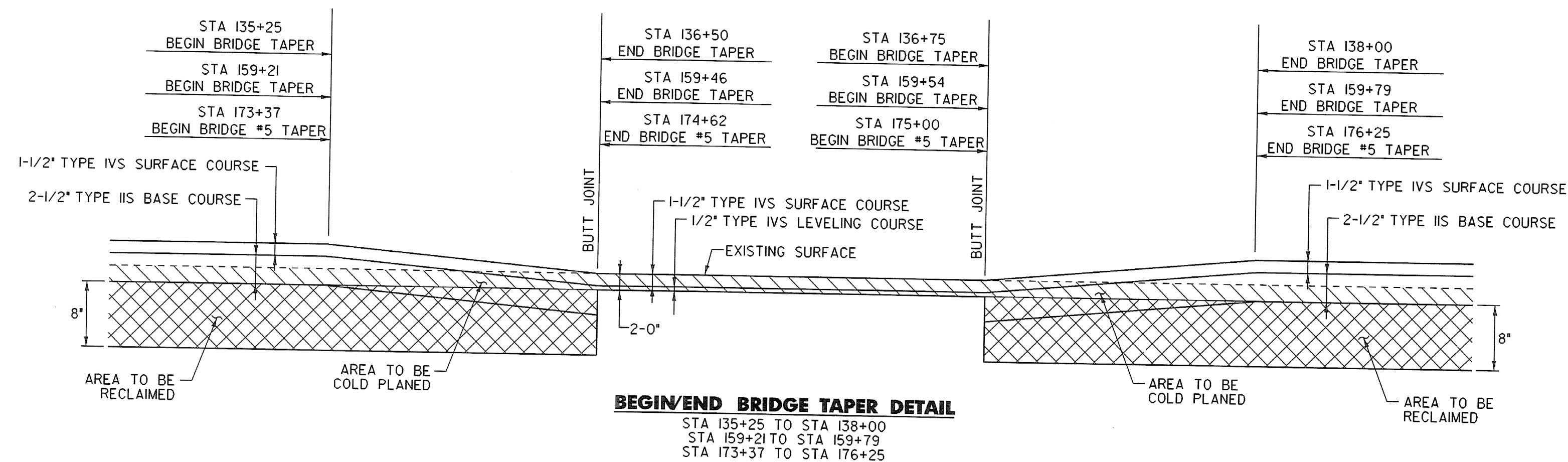
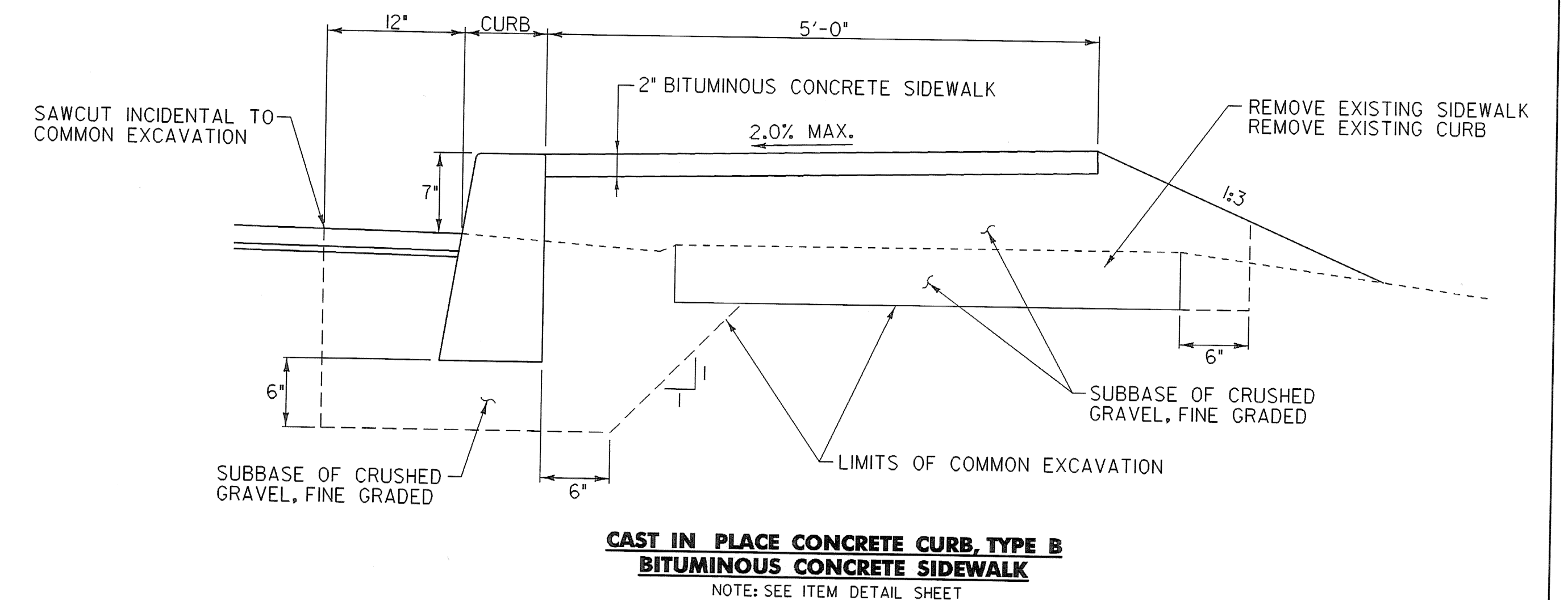
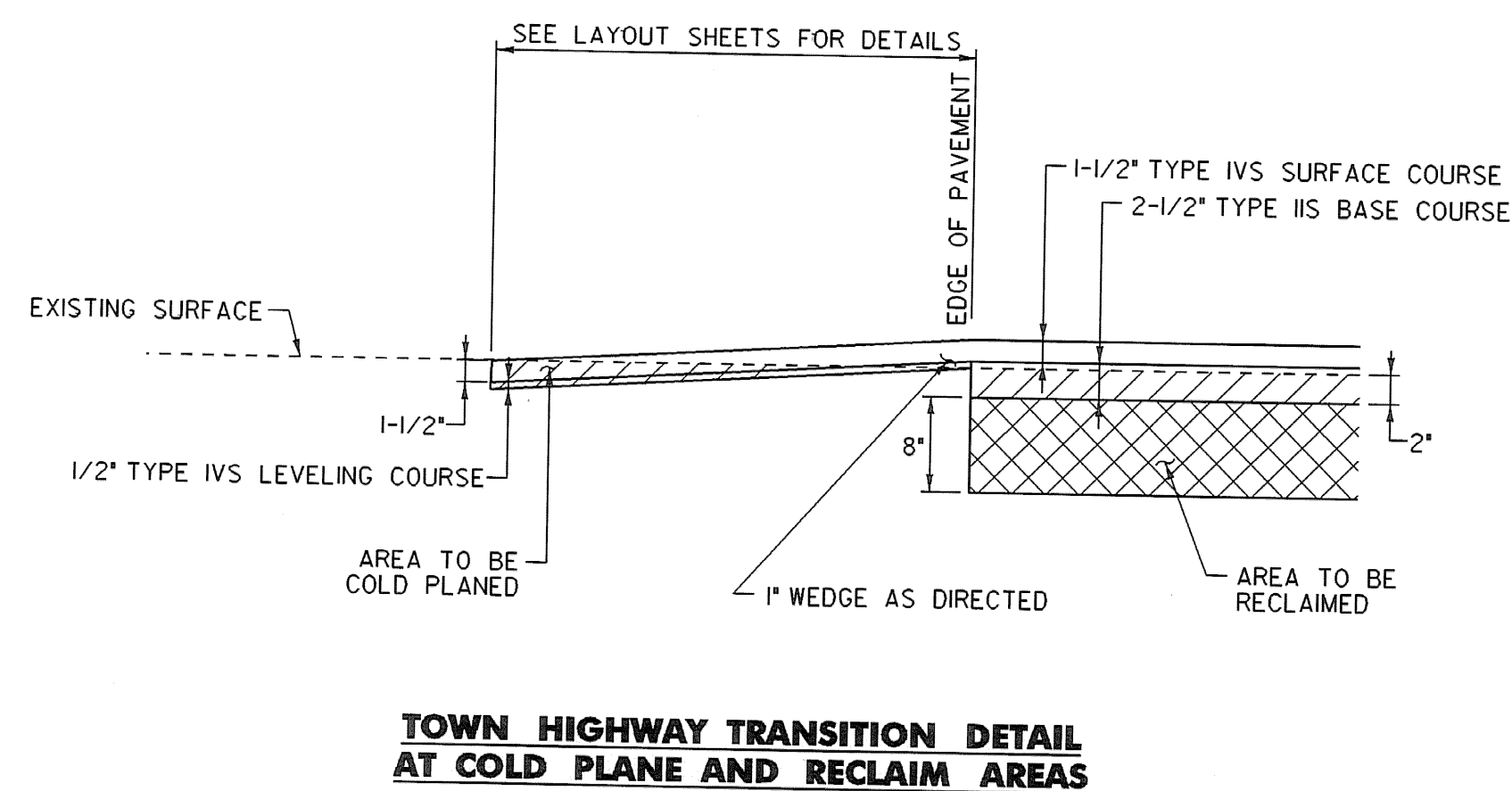
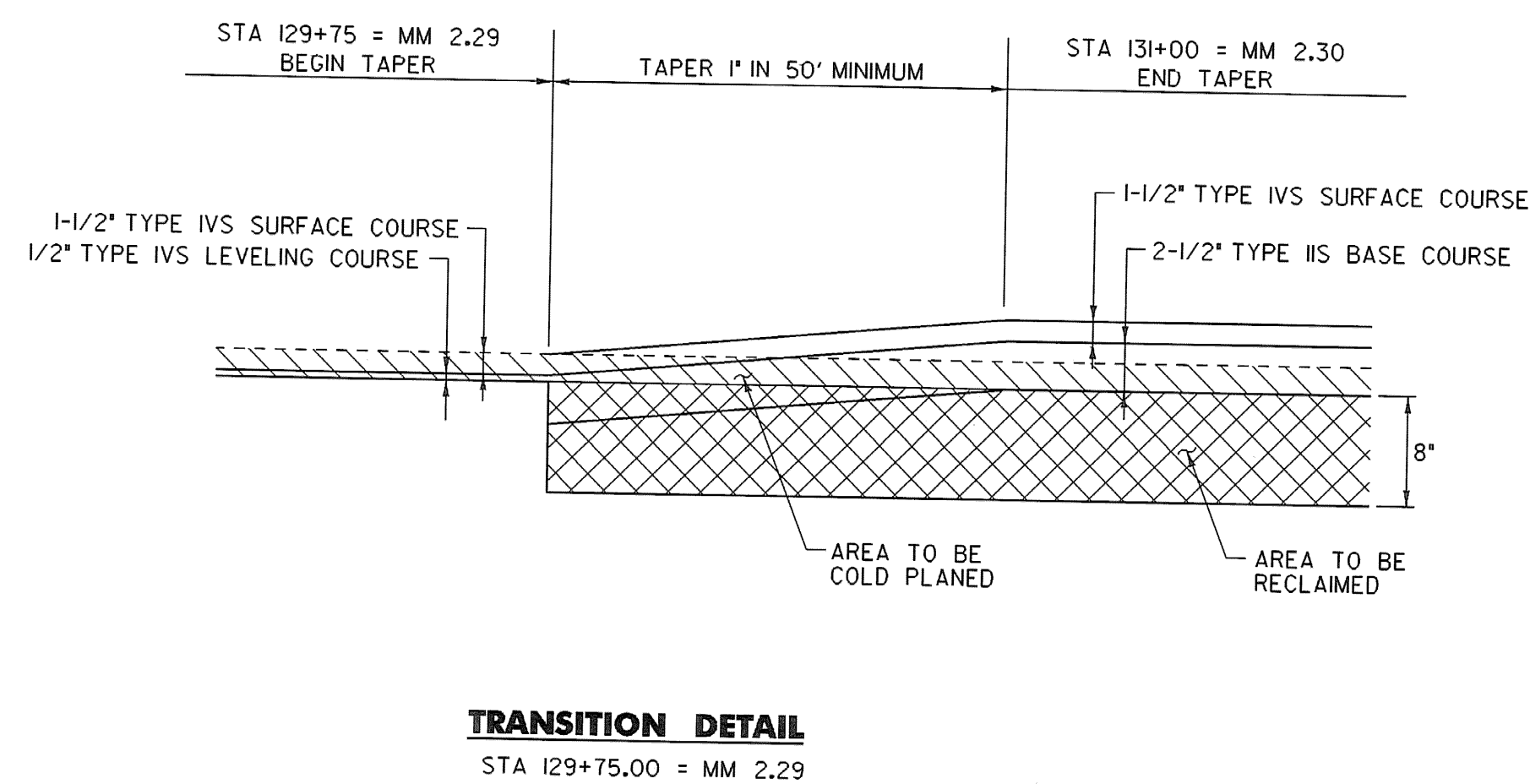
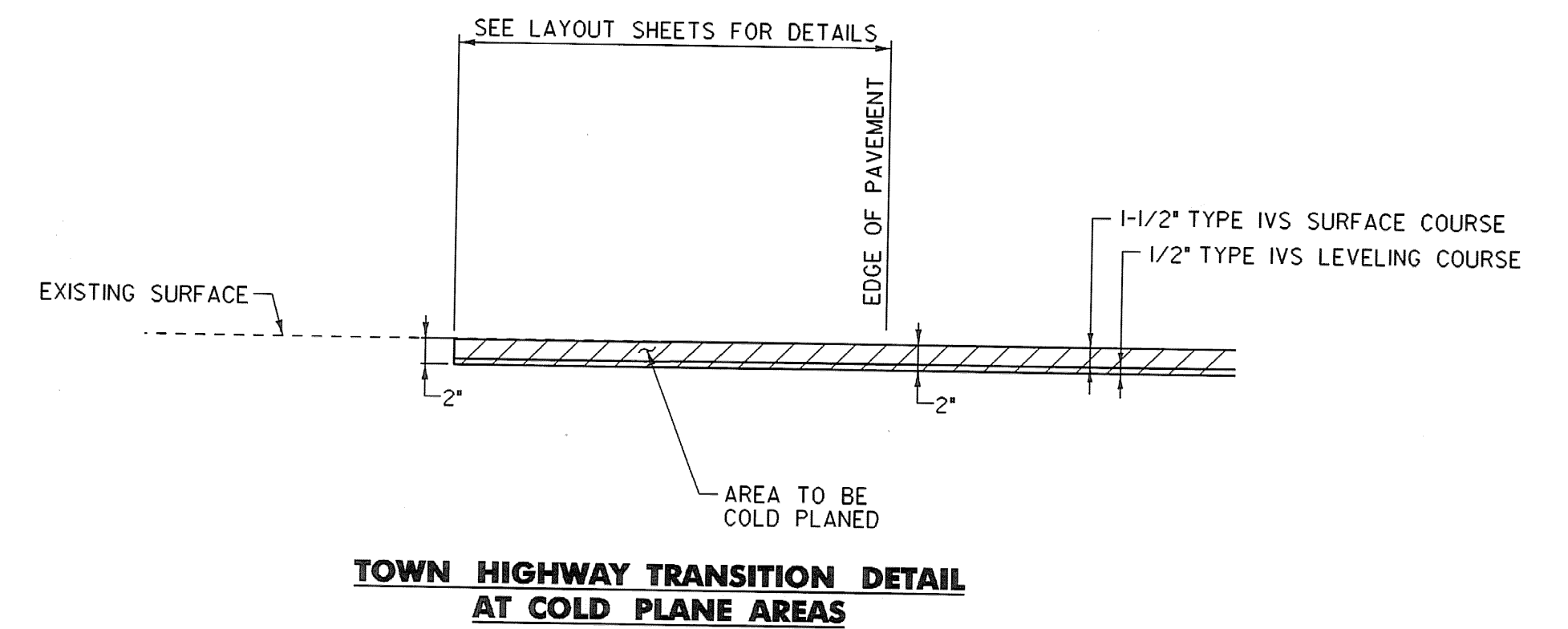
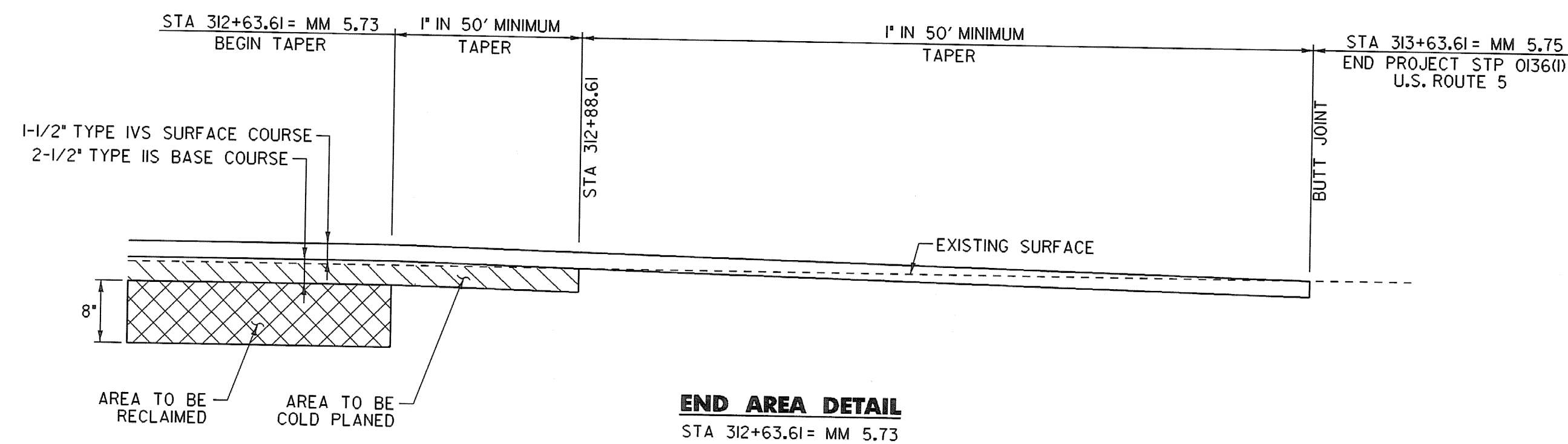
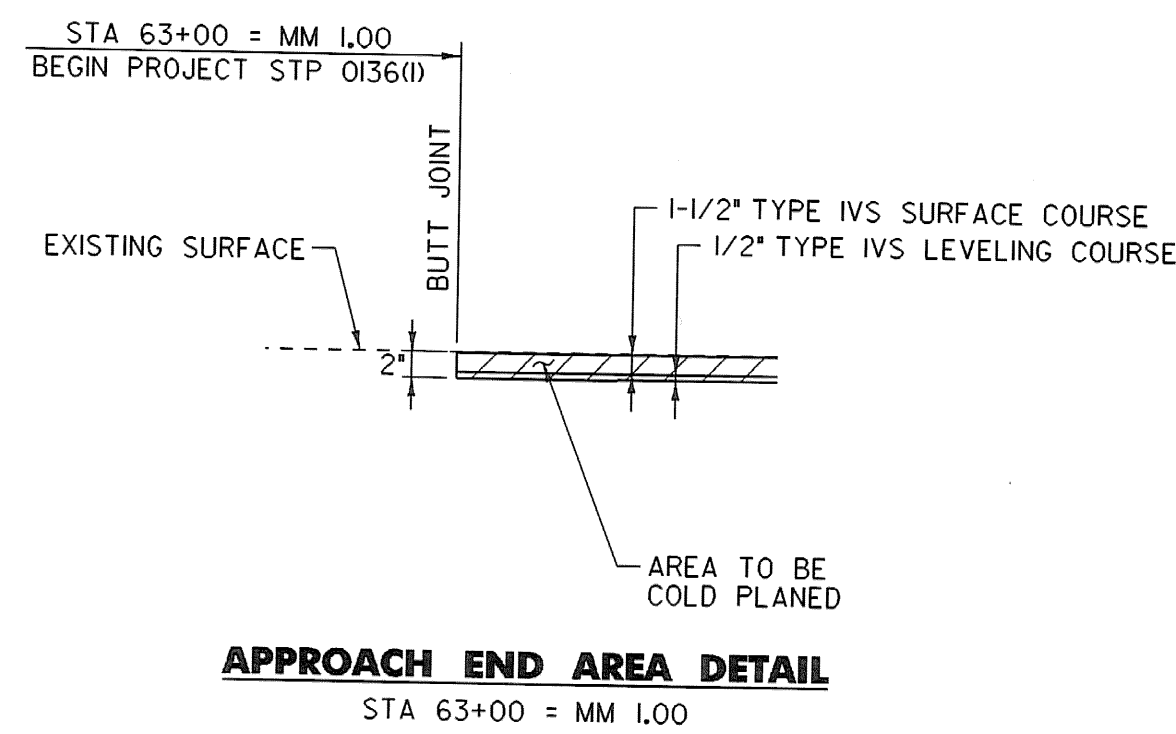
1. THE LEVELING COURSE SHALL BE TYPE IVS, THE SURFACE COURSE SHALL BE TYPE IVS, AND THE BASE COURSE SHALL BE TYPE IIS, ITEM 490.30 AS SHOWN ON THE PLANS, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
2. EMULSIFIED ASPHALT, TYPE RS-1, SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES (NOT INCLUDING RECLAIMING SURFACES) BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- 1/4 " (TOTAL THICKNESS EXCLUDING LEVELING COURSE).
4. ALL EDGES OF PAVEMENT SHALL BE BACKED UP TO FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.13 - AGGREGATE SHOULDERS, RAP. ADDITIONAL AGGREGATE MATERIAL REQUIRED AFTER THE COLD PLANE GRINDINGS ARE USED WILL BE PAID FOR UNDER ITEM 402.12 - AGGREGATE SHOULDERS.
5. AN ESTIMATED QUANTITY OF ITEM 619.17 - YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE RESIDENT ENGINEER.
6. EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER WILL BE EXCAVATED TO A DEPTH OF THREE INCHES +/- OR AS DIRECTED BY THE ENGINEER. EXCAVATED MATERIAL WILL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT, AS DIRECTED BY THE RESIDENT ENGINEER. THIS WORK WILL BE PAID FOR USING THE APPROPRIATE RENTAL ITEMS SUCH AS 608.15 - GRADER RENTAL, 608.25 - ALL PURPOSE EXCAVATOR RENTAL, 608.30 - POWER BROOM RENTAL, 608.37 - TRUCK RENTAL, 608.40 - LOADER RENTAL AND 203.15 - COMMON EXCAVATION. THE METHOD OF REMOVAL AND THE USE OF RENTAL ITEMS SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO ANY WORK BEING DONE. MATERIAL REMOVED SHALL BE REPLACED WITH 301.40 - SUBBASE, RAP.
7. THREE FEET SEVEN INCHES OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH 6 FT POSTS. ALL GUARDRAIL USED ON THIS PROJECT SHALL BE STEEL BEAM WITH STEEL POSTS AND WOOD BLOCKOUTS (OR ACCEPTED ALTERNATIVE).
8. COLD PLANING TO BE COMPLETED ACCORDING TO THE TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGINNING/END AND AT ALL SIDE ROAD APPROACHES AS DENOTED ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL BUTT JOINTS SHALL BE SAW CUT, INCIDENTAL TO ITEM 210.10 - COLD PLANING, BITUMINOUS PAVEMENT. THE CONTRACTOR SHALL PERFORM COLD PLANING WITH CAUTION AT BRIDGE LOCATIONS. ANY DAMAGE WHICH OCCURS TO BRIDGE DECK MEMBRANES AS A RESULT OF COLD PLANE OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE MEMBRANE WILL BE REPAIRED OR REPLACED AT NO COST TO THE STATE.
9. ALL DRIVES, TOWN HIGHWAYS AND MAILBOX TURNOUTS SHALL RECEIVE A PAVED APRON UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. PAVEMENT SHALL FEATHER APRON OVER EXISTING SURFACE. ANY AND ALL REQUIRED EXCAVATION IN DRIVE AREAS SHALL BE DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER THE APPLICABLE RENTAL ITEMS. IF REQUIRED, A NEW DRIVEWAY SUBBASE SHALL BE CONSTRUCTED AND WILL BE PAID FOR UNDER ITEM 301.40 - SUBBASE, RAP. A NEW SUPERPAVE BITUMINOUS CONCRETE SURFACE SHALL BE CONSTRUCTED AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 490.30 - SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. ALL PAVEMENT WORK WHICH COULD INVOLVE SOME HAND-WORK (SUCH AS DRIVEWAYS, UTILITIES AND AROUND DROP INLETS, ETC.) SHALL BE PAID FOR AT THE CONTRACT PRICE FOR SPECIAL PROVISION 900.675 - (HAND-PLACED BITUMINOUS CONCRETE MATERIAL DRIVES). ESTIMATED QUANTITIES OF THE ABOVE ITEMS HAVE BEEN INCLUDED TO PAY FOR THIS WORK.
10. ESTIMATED QUANTITIES OF ITEM 608.25 - ALL PURPOSE EXCAVATOR RENTAL, TYPE I AND 608.37 - TRUCK RENTAL HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL FLARES WITH EXCAVATED DITCHING MATERIAL. THE GUARDRAIL FLARES SHALL BE CAPPED WITH AN ESTIMATED 3 INCH DEPTH OF AGGREGATE SHOULDERS, RAP, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 3 TONS OF AGGREGATE SHOULDERS, RAP FOR EACH GUARDRAIL TERMINAL. AN ESTIMATED QUANTITY OF EARTH BORROW HAS BEEN INCLUDED TO PROVIDE FOR ADDITIONAL MATERIAL, IF NEEDED, FOR FLARE CONSTRUCTION.
11. GRASS GROWING ADJACENT TO PAVEMENT, OR THROUGH CRACKS IN THE PAVEMENT WHICH MAY HAMPER THE REPLACEMENT OF NEW BITUMINOUS CONCRETE, SHALL BE REMOVED BY THE CONTRACTOR OR AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 490.30 - SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
12. COMPACTION, GRADING, AND CLEAN UP OF ITEM 301.26 - SUBBASE OF CRUSHED GRAVEL, FINE GRADED, ITEM 402.12 - AGGREGATE SHOULDERS, ITEM 402.13 - AGGREGATE SHOULDERS, RAP AND ITEM 651.35 - TOPSOIL, SHALL BE INCLUDED IN THE CONTRACT PRICE OF EACH ITEM.
13. ALL NEW CURB AND SIDEWALK SHALL BE 616.28 CAST-IN-PLACE CONCRETE CURB, TYPE B, AND 618.15 - BITUMINOUS CONCRETE SIDEWALK. ALL NEW SIDEWALK SHALL HAVE A MINIMUM OF 6" OF SUBBASE UNDERNEATH IT AND WILL BE PAID FOR UNDER ITEM 301.26 - SUBBASE OF CRUSHED GRAVEL, FINE GRADED. ALL EXISTING SIDEWALK AND CURB TO BE REMOVED WILL BE PAID UNDER 203.15 - COMMON EXCAVATION.
14. ITEM 609.10, "DUST CONTROL WITH WATER" IS AN ESTIMATED QUANTITY TO BE USED AS DUST CONTROL ALONG THE RECLAIMED SECTION.
15. TYPE E GRATE AT STA. 65+04 RT. WILL BE PAID FOR UNDER ITEM 604.418 - REHAB, DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III.
16. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARDS C-3A AND C-3B.
17. TRENCH EXCAVATION OF EARTH, RELOCATE MAILBOX-SINGLE SUPPORT, RELOCATE MAILBOX-MULTIPLE SUPPORT, 6" UNDERDRAIN, 6" UNDERDRAIN CARRIER PIPE AND 18" CSP .064 (2 2/3 X 1/2) ARE ESTIMATED ITEMS IF NEEDED. ITEMS SHALL BE PAID UNDER ITEM NUMBERS 204.20-TRENCH EXCAVATION OF EARTH, 617.10-RELOCATE MAILBOX, SINGLE SUPPORT, 617.12-RELOCATE MAILBOX, MULTIPLE SUPPORT, 605.10-" 6" UNDERDRAIN", 605.20-"6" UNDERDRAIN CARRIER PIPE" AND 601.0015-" 18" CSP .064 (2 2/3 X 1/2)".
- \*\*18. 301.40 - SUBBASE, RAP WILL BE USED TO CORRECT SUPERELEVATION AND GRADATION DEFICIENCIES WITHIN THE RECLAIMED SECTION TO THE SATISFACTION OF THE RESIDENT ENGINEER. AN ESTIMATED THICKNESS OF TWO INCHES HAS BEEN INCLUDED FOR THE ENTIRE RECLAIM SURFACE AREA.\*\***

••REVISED 2/23/2009••

TYPICAL SHEET #1

|                                        |                             |
|----------------------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD                 |
| PROJECT NUMBER:                        | STP 0136(1)                 |
| FILE NAME: ...02C084\...02C084.typ.dgn | PLOT DATE: 23-FEB-2009      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084.typ.01         | SHEET 3 OF 68               |





#### CONSERVATION SEED MIX RURAL AREA - SEED MIXTURE

| % WT. | LBS./A. | NAME                | PUR % | GERM % |
|-------|---------|---------------------|-------|--------|
| 37.5  | 22.5    | CREEPING RED FESCUE | 98    | 85     |
| 37.5  | 22.5    | TALL FESCUE         | 95    | 90     |
| 5.0   | 3.0     | RED TOP             | 95    | 90     |
| 15.0  | 9.0     | BIRDSFOOT TREFOIL   | 98    | 85     |
| 5.0   | 3.0     | ANNUAL RYE GRASS    | 95    | 85     |
| 100.0 | 60.0    |                     |       |        |

THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED- TO BE APPLIED PER SEEDING FORMULA OR AS DIRECTED BY THE ENGINEER.

FERTILIZER- FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS/ACRE (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE- TO BE APPLIED AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE ENGINEER.

HAY MULCH- TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

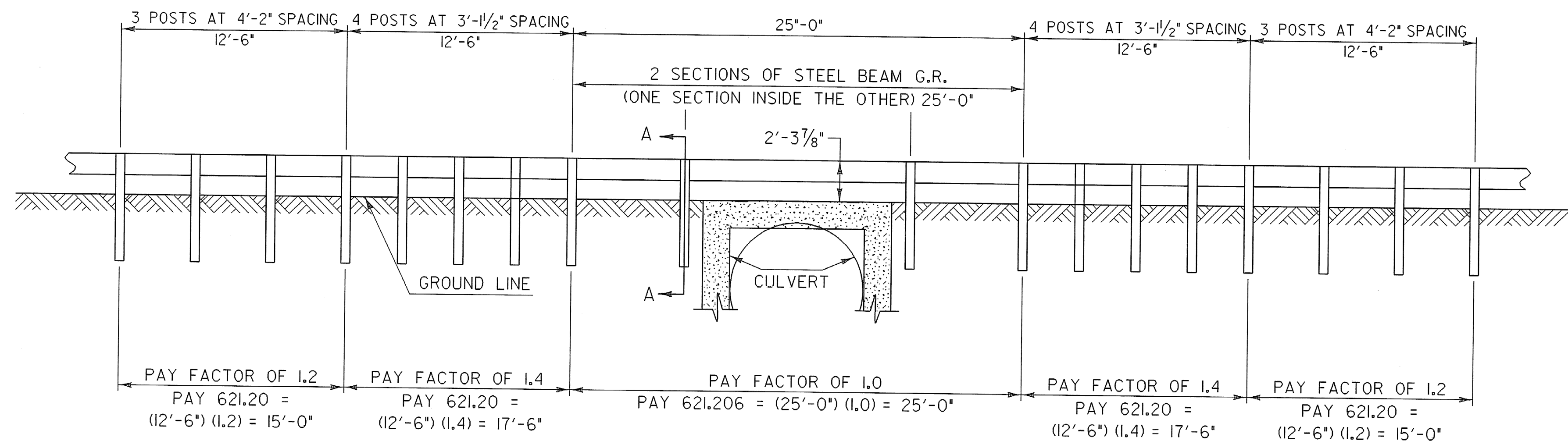
TOPSOIL- TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

#### TYPICAL SHEET #2

|                                        |                             |
|----------------------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD                 |
| PROJECT NUMBER:                        | STP 0136(1)                 |
| FILE NAME: ...02C084\...02C084.typ.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084.typ.02         | SHEET 4 OF 68               |

NOT TO SCALE

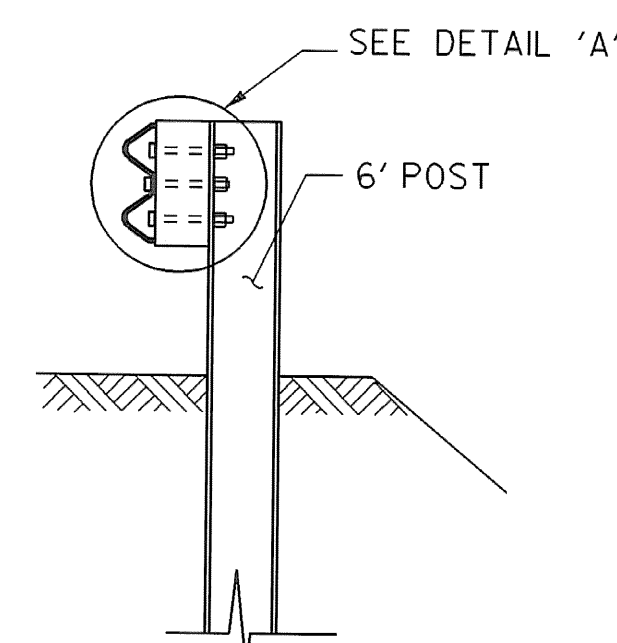




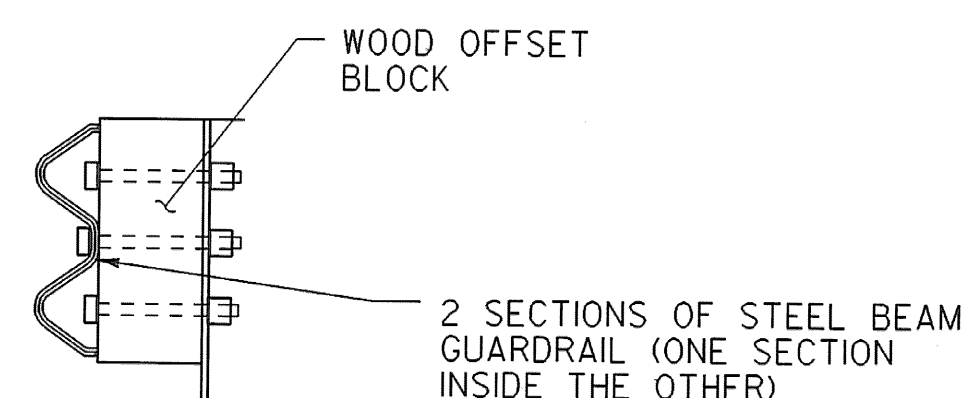
### STEEL BEAM GUARDRAIL AT SMALL CULVERTS DETAIL

#### BEGIN/END SMALL CULVERTS DETAIL

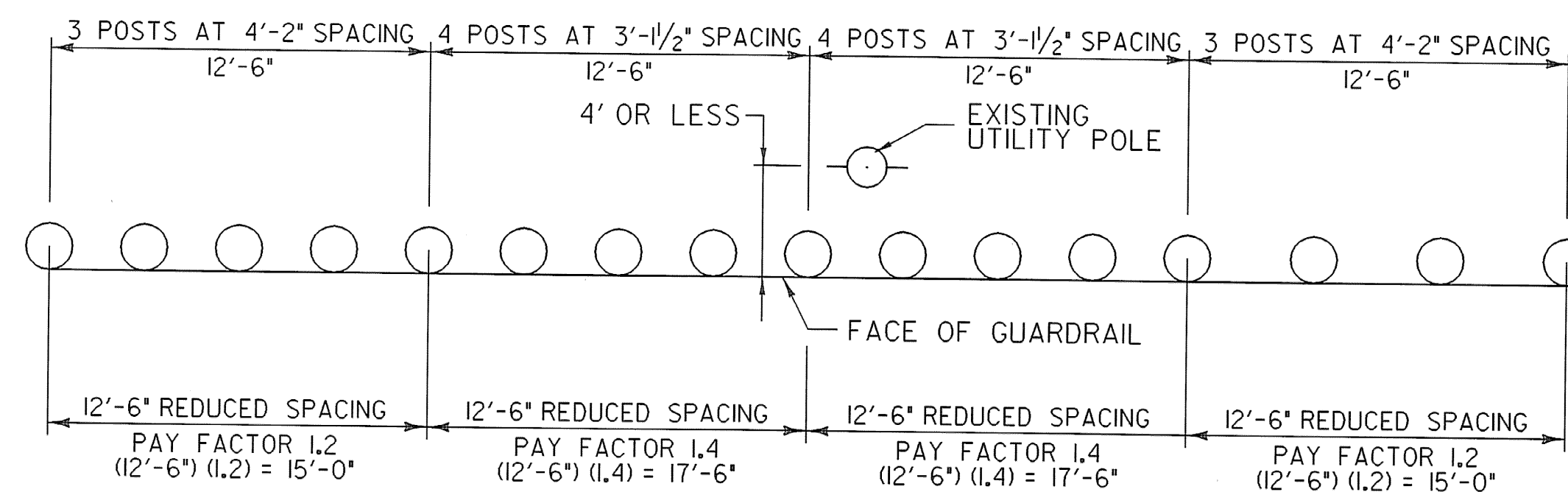
STA 80+94 TO 81+56 RT  
STA 84+14 TO 84+89 LT  
STA 136+24 TO STA 136+99 LT



SECTION A-A



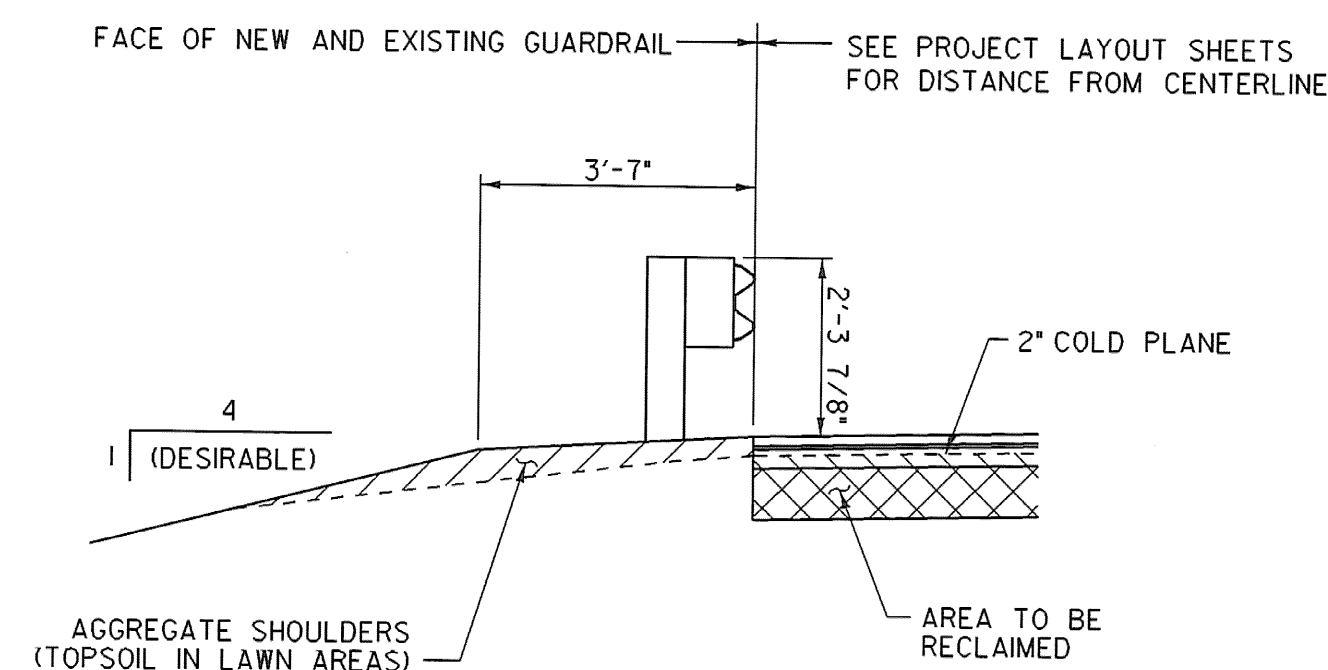
DETAIL A



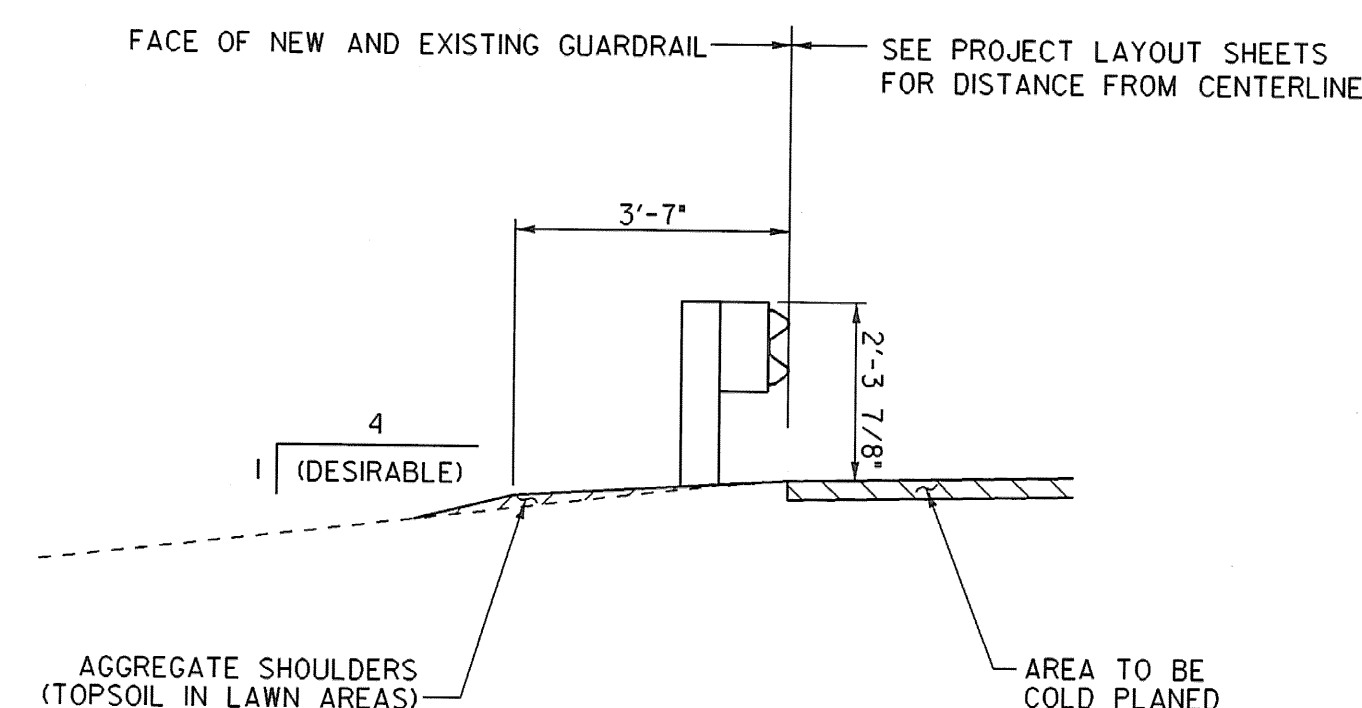
### STEEL BEAM GUARDRAIL POST SPACING AT UTILITY POLE DETAIL

#### BEGIN/END UTILITY POLE SPACING DETAIL

STA 75+86 TO STA 76+36 RT  
STA 135+61 TO STA 136+11 LT



TYPICAL SECTION AT GUARDRAIL COLD PLANE AND RECLAIM AREAS



TYPICAL SECTION AT GUARDRAIL COLD PLANE AREAS

NOT TO SCALE

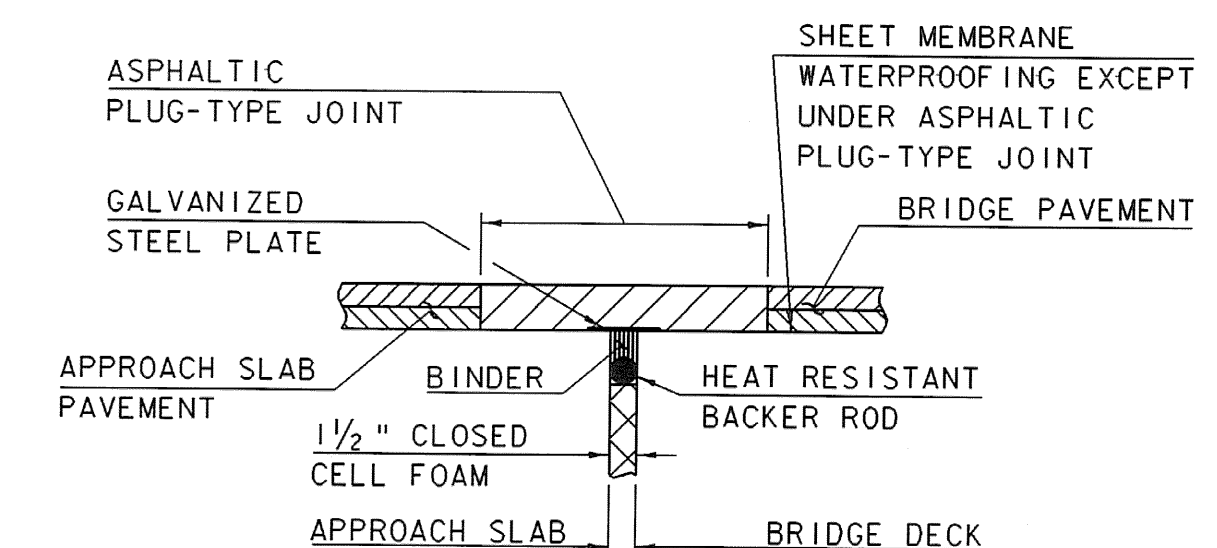
### ASPHALTIC PLUG JOINT NOTES

#### 1. INSTALLATION

- LOCATE THE JOINT CENTRALLY OVER THE DECK OVERLAY EXPANSION GAP OR FIXED JOINT MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.
- REMOVE THE BITUMINOUS CONCRETE PAVEMENT FULL DEPTH AS SHOWN ON THE PLANS. THE PAVEMENT SHALL BE DRY AND SAW CUT TO THE LIMITS REQUIRED TO PLACE THE JOINT. A PNEUMATIC HAMMER AND CHISEL MAY BE USED ADJACENT TO THE CURB ONLY WHEN SAW CUTTING IS NOT POSSIBLE.
- BLAST CLEAN THE JOINT AREA OF DEBRIS AND ASPHALT. THOROUGHLY DRY THE JOINT AREA WITH COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.
- REPAIR SPALLED AND DEFECTIVE CONCRETE WITH AN APPROVED MATERIAL AS AGREED UPON BY THE ENGINEER.
- PLACE PROPERLY SIZED HEAT RESISTANT BACKER ROD IN THE MOVEMENT GAP ALLOWING FOR 1" +/- OF BINDER ABOVE THE ROD.
- HEAT AND PLACE THE BINDER MATERIAL AS RECOMMENDED BY THE MANUFACTURER.
- PLACE 1/4" THICK BY 8" WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE THE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRESTAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER. THE STEEL PLATES MAY BE OMITTED WHERE THE ENGINEER DETERMINES THAT THE APPROACH SLAB OR BRIDGE DECK WILL PROVIDE INADEQUATE SUPPORT AND WHERE VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.
- HEAT AND MIX THE BINDER MATERIAL AND AGGREGATE AS RECOMMENDED BY THE MANUFACTURER.
- INSTALLATION OF MATERIAL, COMPACTION, AND TOP COATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
- IMMEDIATELY AFTER TOP COATING, CAST AN ANTI-SKID MATERIAL OVER THE JOINT TO REDUCE THE RISK OF TRACKING.
- PROTECTED JOINT FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 51 DEG C (125 DEG F) +/-.

#### 2. WEATHER LIMITATIONS. (APPLY BINDER MATERIAL ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL OR AS RECOMMENDED BY THE MANUFACTURER):

- THE AMBIENT AIR TEMPERATURE IS AT LEAST 10 DEG C (50 DEG F) AND RISING.
- THE ROAD SURFACE IS DRY.
- WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF SATISFACTORY WORK.

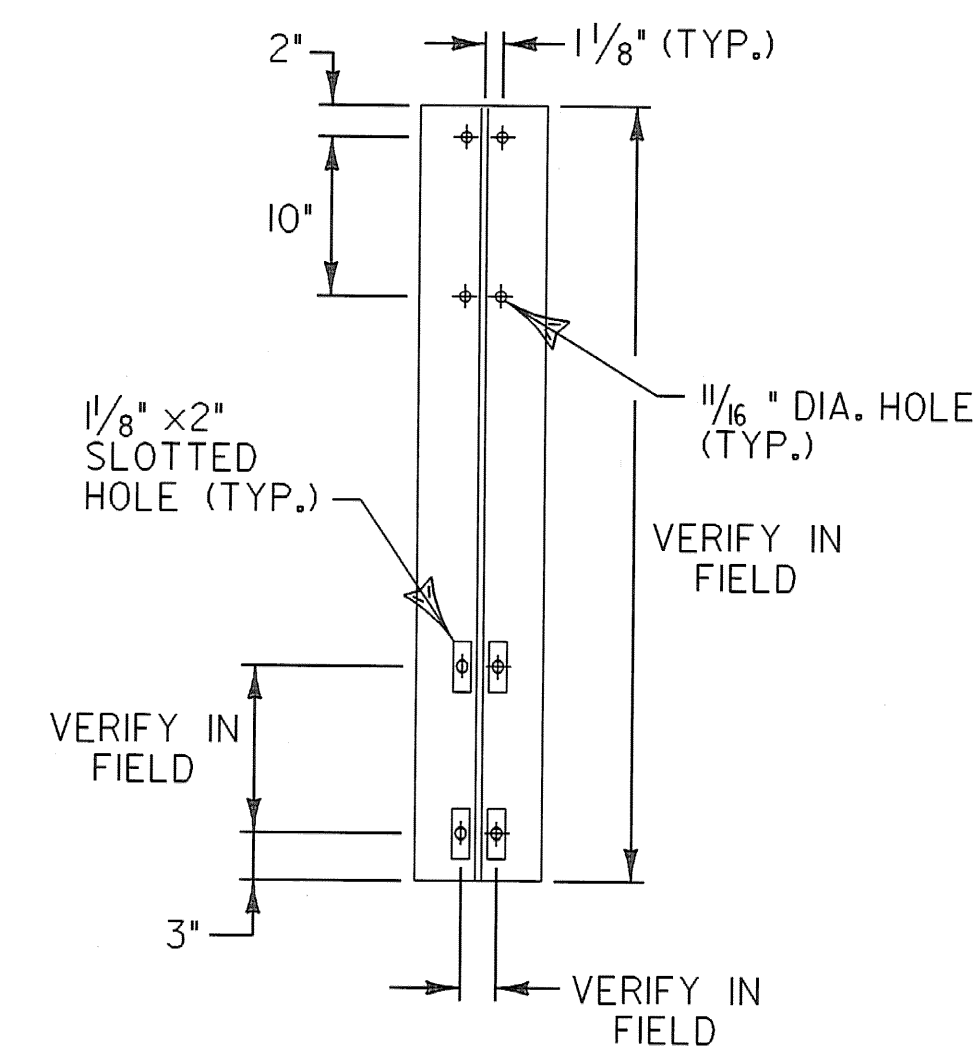
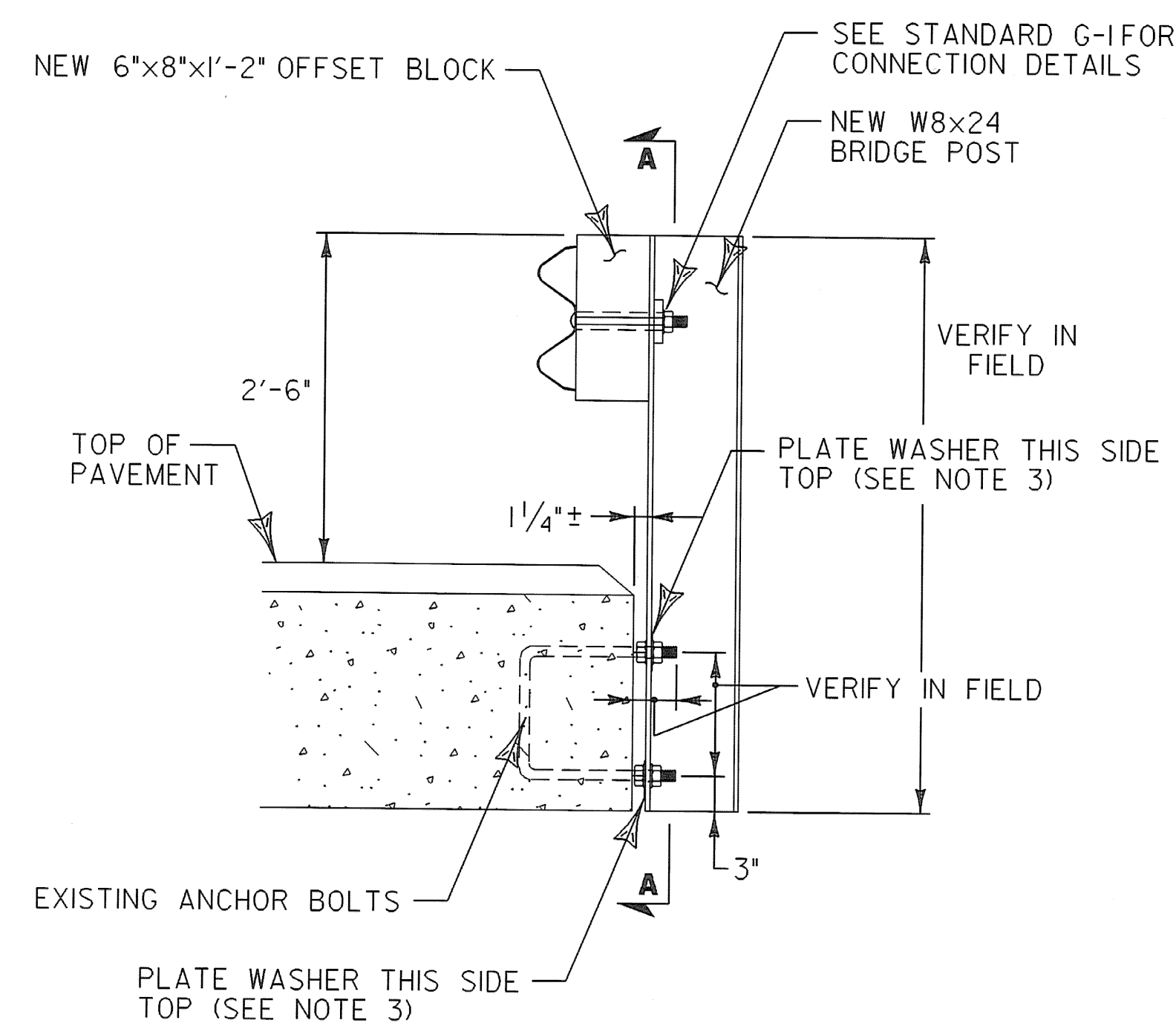
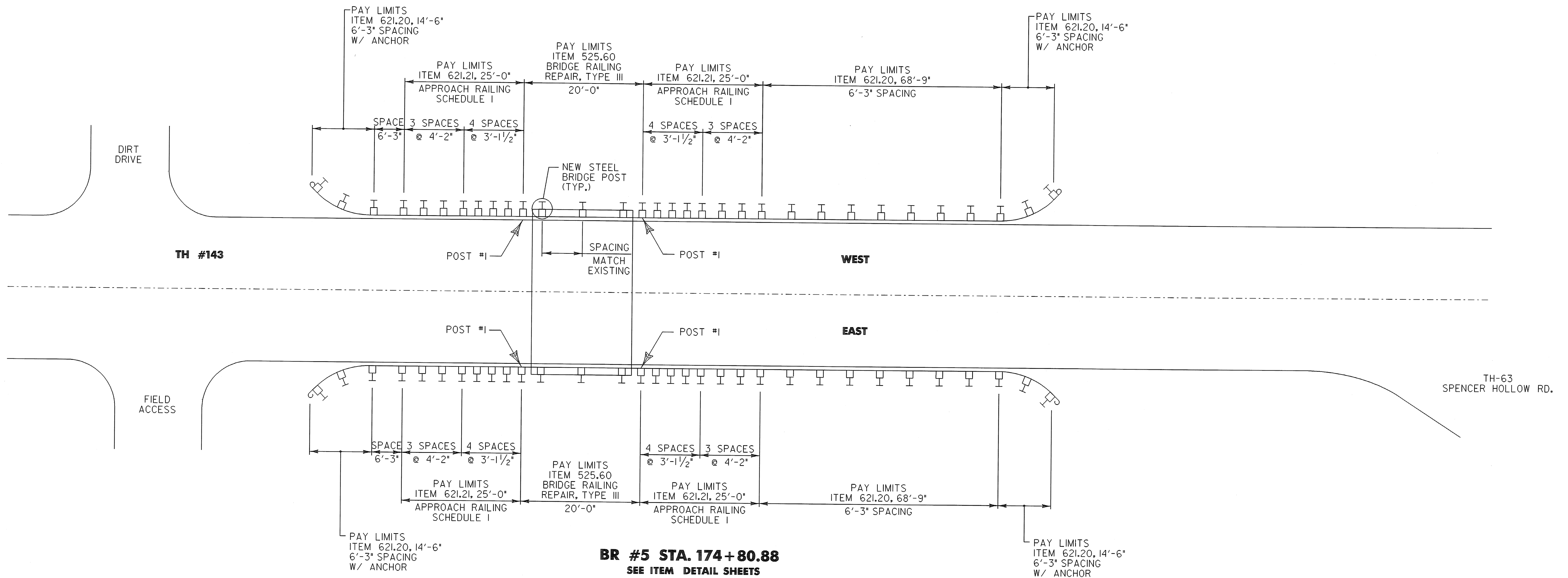


ASPHALTIC PLUG-TYPE JOINT DETAIL (NOT TO SCALE)

### TYPICAL SHEET #3

|                                         |                             |
|-----------------------------------------|-----------------------------|
| PROJECT NAME:                           | SPRINGFIELD                 |
| PROJECT NUMBER:                         | STP 0136(1)                 |
| FILE NAME: ...02C084\...02C084-1-yp.dgn | PLOT DATE: 06-JAN-2009      |
| PROJECT LEADER: K. UPMAL                | DRAWN BY: B. KIPPAN, PAPPAS |
| DESIGNED BY: B. KIPPAN, PAPPAS          | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084-1yp_03          | SHEET 5 OF 68               |





**NOTES:**

1. LOCATION OF EXISTING ANCHOR BOLTS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING BRIDGE POSTS.
2. POSTS SHALL BE SHOP CUT AND DRILLED PRIOR TO GALVANIZING.
3. SEE STANDARD SHEET SB-R6-82 FOR ADDITIONAL DETAILS.

**TYPICAL SHEET #4**

|                                       |                             |
|---------------------------------------|-----------------------------|
| PROJECT NAME:                         | SPRINGFIELD                 |
| PROJECT NUMBER:                       | STP 0136(1)                 |
| FILE NAME: ...02C084...02C084.typ.dgn | PLOT DATE: 07-JAN-2009      |
| PROJECT LEADER: K. UPMAL              | DRAWN BY: B. KIPPAN, PAPPAS |
| DESIGNED BY: B. KIPPAN, PAPPAS        | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_typ_04        | SHEET 6 OF 68               |

NOT TO SCALE



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QUANTITY SHEET 1

| SUMMARY OF ESTIMATED QUANTITIES |  |  |  |  |  |  |  |  |          |         |                 | TOTALS         |             | DESCRIPTIONS |      |                                                                    |             | DETAILED SUMMARY OF QUANTITIES |            |      |                                          |
|---------------------------------|--|--|--|--|--|--|--|--|----------|---------|-----------------|----------------|-------------|--------------|------|--------------------------------------------------------------------|-------------|--------------------------------|------------|------|------------------------------------------|
|                                 |  |  |  |  |  |  |  |  | TRAINING | ROADWAY | EROSION CONTROL | FULL E&C ITEMS | GRAND TOTAL | FINAL        | UNIT | ITEMS                                                              | ITEM NUMBER | ROUND                          | QUANTITIES | UNIT | ITEMS                                    |
|                                 |  |  |  |  |  |  |  |  |          | 1780    |                 |                | 1780        |              | CY   | COMMON EXCAVATION                                                  | 203.15      | 18                             |            |      | COLD PLANING AND BITUMINOUS PAVING       |
|                                 |  |  |  |  |  |  |  |  |          | 100     |                 |                | 100         |              | CY   | SOLID ROCK EXCAVATION                                              | 203.16      | EST                            | 68125 SY   |      | MANLINE (APPROACHES)                     |
|                                 |  |  |  |  |  |  |  |  |          | 885     |                 |                | 885         |              | CY   | EARTH BORROW                                                       | 203.30      | 10                             | 2068 SY    |      | SIDE ROADS                               |
|                                 |  |  |  |  |  |  |  |  |          | 200     |                 |                | 200         |              | CY   | TRENCH EXCAVATION OF EARTH                                         | 204.20      | EST                            | 702 SY     |      | ROUNDING                                 |
|                                 |  |  |  |  |  |  |  |  |          | 70900   |                 |                | 70900       |              | SY   | COLD PLANING, BITUMINOUS PAVEMENT                                  | 210.10      | 702                            | 70900 SY   |      | TOTAL                                    |
|                                 |  |  |  |  |  |  |  |  |          | 154     |                 |                | 154         |              | CY   | SUBBASE OF CRUSHED GRAVEL, FINE GRADED                             | 301.26      | 2                              |            |      | SUPERPAVE BITUMINOUS CONCRETE PAVEMENT   |
|                                 |  |  |  |  |  |  |  |  |          | 6575    |                 |                | 6575        |              | TON  | SUBBASE, RAP                                                       | 301.40      | EST                            | 540 TON    |      | MANLINE LEVELING COURSE (TYPE I/S)       |
|                                 |  |  |  |  |  |  |  |  |          | 49532   |                 |                | 49532       |              | SY   | RECLAIMED STABILIZED BASE                                          | 310.20      | 490                            | 5336 TON   |      | MANLINE SURFACE COURSE (TYPE I/S)        |
|                                 |  |  |  |  |  |  |  |  |          | 1000    |                 |                | 1000        |              | TON  | AGGREGATE SHOULDERS                                                | 402.12      | EST                            | 6170 TON   |      | MANLINE BASE COURSE (TYPE IS)            |
|                                 |  |  |  |  |  |  |  |  |          | 1100    |                 |                | 1100        |              | TON  | AGGREGATE SHOULDERS, RAP                                           | 402.13      | EST                            | 200 TON    |      | SIDE ROADS SURFACE/LEVELING (TYPE I/S)   |
|                                 |  |  |  |  |  |  |  |  |          | 673     |                 |                | 673         |              | CWT  | EMULSIFIED ASPHALT                                                 | 404.65      | 7                              | 52 TON     |      | SIDE ROADS BASE (TYPE IS)                |
|                                 |  |  |  |  |  |  |  |  |          | 1       |                 |                | 1           |              | LU   | PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)                        | 406.50      | -                              | 39 TON     |      | DRVES (TYPE I/S)                         |
|                                 |  |  |  |  |  |  |  |  |          |         |                 |                |             |              |      | BEGIN OPTION AA                                                    |             |                                | 130 TON    |      | ROUNDING                                 |
|                                 |  |  |  |  |  |  |  |  |          | 12450   |                 |                | 12450       |              | TON  | SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% RAP CONTENT)            | 490.30      | 130                            | 12450 TON  |      | TOTAL                                    |
|                                 |  |  |  |  |  |  |  |  |          | 12450   |                 |                | 12450       |              | TON  | SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% <RAP CONTENT<15.0%)     | 490.30      |                                |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 12450   |                 |                | 12450       |              | TON  | SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (15.0%<=RAP CONTENT<25.0%)  | 490.30      |                                |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 12450   |                 |                | 12450       |              | TON  | SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (25.0%<=RAP CONTENT<=50.0%) | 490.30      |                                |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          |         |                 |                |             |              |      | END OPTION AA                                                      |             |                                |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 1       |                 |                | 1           |              | LU   | AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)                                | 490.31      | -                              |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 1       |                 |                | 1           |              | LU   | MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)                              | 490.32      | -                              |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 1       |                 |                | 1           |              | LU   | SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)                        | 490.33      | -                              |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 1       |                 |                | 1           |              | LU   | LONGITUDNAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)             | 490.34      | -                              |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 40      |                 |                | 40          |              | LF   | BRIDGE EXPANSION JOINT, ASPHALTIC PLUG                             | 516.10      | 4                              |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 40      |                 |                | 40          |              | LF   | REMOVAL OF EXISTNG RAILING                                         | 525.10      | -                              |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 40      |                 |                | 40          |              | LF   | BRIDGE RAILING REPAIR, TYPE III                                    | 525.60      | -                              |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 100     |                 |                | 100         |              | LF   | 18" CSP .064 (2-2/3 X 1/2)                                         | 601.0015    | EST                            |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 1       |                 |                | 1           |              | EACH | REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III           | 604.418     | -                              |            |      | ** 301.40 SUBBASE, RAP REVISED 2/23/09** |
|                                 |  |  |  |  |  |  |  |  |          | 200     |                 |                | 200         |              | LF   | 6 INCH UNDERDRAIN PIPE                                             | 605.10      | EST                            |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 100     |                 |                | 100         |              | LF   | 6 INCH UNDERDRAIN CARRIER PIPE                                     | 605.20      | EST                            |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 60      |                 |                | 60          |              | HR   | POWER GRADER RENTAL                                                | 608.15      | 2                              |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 390     |                 |                | 390         |              | HR   | ALL PURPOSE EXCAVATOR RENTAL, TYPE I                               | 608.25      | 4                              |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 72      |                 |                | 72          |              | HR   | POWER BROOM RENTAL, TYPE I                                         | 608.30      | 1                              |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 780     |                 |                | 780         |              | HR   | TRUCK RENTAL                                                       | 608.37      | EST                            |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 72      |                 |                | 72          |              | HR   | LOADER RENTAL, TYPE I                                              | 608.40      | 1                              |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 9       |                 |                | 9           |              | MGAL | DUST CONTROL WITH WATER                                            | 609.10      | 0.1                            |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 710     |                 |                | 710         |              | CY   | STONE FILL, TYPE I                                                 | 613.10      | 15                             |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 582     |                 |                | 582         |              | LF   | CAST-IN-PLACE CONCRETE CURB, TYPE B                                | 616.28      | 7                              |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 400     |                 |                | 400         |              | LF   | TREATED TIMBER CURB                                                | 616.35      | 20                             |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 20      |                 |                | 20          |              | EACH | RELOCATE MAILBOX, SINGLE SUPPORT                                   | 617.10      | EST                            |            |      |                                          |
|                                 |  |  |  |  |  |  |  |  |          | 10      |                 |                | 10          |              | EACH | RELOCATE MAILBOX, MULTIPLE SUPPORT                                 | 617.12      | EST                            |            |      |                                          |



QUANTITY SHEET 2

| SUMMARY OF ESTIMATED QUANTITIES |  |  |  |  |  |  |  |          |         |                 |                | TOTALS      |       | DESCRIPTIONS |                                         |             |       | DETAILED SUMMARY OF QUANTITIES |      |       |
|---------------------------------|--|--|--|--|--|--|--|----------|---------|-----------------|----------------|-------------|-------|--------------|-----------------------------------------|-------------|-------|--------------------------------|------|-------|
|                                 |  |  |  |  |  |  |  | TRAINING | ROADWAY | EROSION CONTROL | FULL E&C ITEMS | GRAND TOTAL | FINAL | UNIT         | ITEMS                                   | ITEM NUMBER | ROUND | QUANTITIES                     | UNIT | ITEMS |
|                                 |  |  |  |  |  |  |  |          | 35      |                 |                | 35          |       | TON          | BITUMINOUS CONCRETE SIDEWALK            | 618.15      | 1     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 32      |                 |                | 32          |       | SF           | DETECTABLE WARNING SURFACE              | 618.30      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 50      |                 |                | 50          |       | EACH         | YIELDING MARKER POSTS                   | 619.17      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 6200    |                 |                | 6200        |       | LF           | STEEL BEAM GUARDRAIL, GALVANIZED        | 621.20      | 84.5  |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 75      |                 |                | 75          |       | LF           | STEEL BEAM GUARDRAIL, GALVANIZED/NESTED | 621.206     | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 100     |                 |                | 100         |       | LF           | HD STEEL BEAM GUARDRAIL, GALVANIZED     | 621.21      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 36      |                 |                | 36          |       | EACH         | ANCHOR FOR STEEL BEAM RAIL              | 621.60      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 2700    |                 |                | 2700        |       | LF           | REMOVAL AND DISPOSAL OF GUARDRAIL       | 621.80      | 116   |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 25      |                 |                | 25          |       | EACH         | REMOVAL AND DISPOSAL OF GUIDE POSTS     | 621.81      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 4       |                 |                | 4           |       | EACH         | ADJUST ELEVATION OF VALVE BOX           | 629.20      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 500     |                 |                | 500         |       | HR           | UNIFORMED TRAFFIC OFFICERS              | 630.10      | 25    |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 5335    |                 |                | 5335        |       | HR           | FLAGGERS                                | 630.15      | 53    |                                |      |       |
|                                 |  |  |  |  |  |  |  |          |         |                 | 1              | 1           |       | LS           | FIELD OFFICE, ENGINEERS                 | 631.10      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          |         |                 | 1              | 1           |       | LS           | TESTING EQUIPMENT, BITUMINOUS           | 631.17      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          |         |                 | 1              | 1           |       | LU           | FIELD OFFICE TELEPHONE (N.A.B.I.)       | 631.25      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  | 520      |         |                 |                | 520         |       | HR           | EMPLOYEE TRAINEESHIP                    | 634.10      | EST   |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 1       |                 |                | 1           |       | LS           | MOBILIZATION/DEMOBILIZATION             | 635.11      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 1       |                 |                | 1           |       | LS           | TRAFFIC CONTROL                         | 641.10      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 2       |                 |                | 2           |       | EACH         | PORTABLE CHANGEABLE MESSAGE SIGN        | 641.15      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 51000   |                 |                | 51000       |       | LF           | 4 INCH YELLOW LINE                      | 646.21      | 500   |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 310     |                 |                | 310         |       | LF           | 24 INCH STOP BAR                        | 646.26      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 60      |                 |                | 60          |       | EACH         | LETTER OR SYMBOL                        | 646.30      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 100     |                 |                | 100         |       | LF           | CROSSWALK MARKING                       | 646.31      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 103000  |                 |                | 103000      |       | LF           | TEMPORARY 4 INCH YELLOW LINE, PAINT     | 646.612     | 1462  |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 620     |                 |                | 620         |       | LF           | TEMPORARY 24 INCH STOP BAR, PAINT       | 646.682     | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 120     |                 |                | 120         |       | EACH         | TEMPORARY LETTER OR SYMBOL, PAINT       | 646.692     | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 100     |                 |                | 100         |       | LF           | TEMPORARY CROSSWALK MARKING, PAINT      | 646.702     | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 1000    |                 |                | 1000        |       | EACH         | LINE STRIPING TARGETS                   | 646.76      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 100     |                 |                | 100         |       | SF           | REMOVAL OF EXISTING PAVEMENT MARKINGS   | 646.85      | 1     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 4200    |                 |                | 4200        |       | SY           | GEOTEXTILE UNDER STONE FILL             | 649.31      | 33    |                                |      |       |
|                                 |  |  |  |  |  |  |  |          |         | 47              |                | 47          |       | LB           | SEED                                    | 651.15      | EST   |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 400     |                 |                | 400         |       | LB           | FERTILIZER                              | 651.18      | EST   |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 2       |                 |                | 2           |       | TON          | AGRICULTURAL LIMESTONE                  | 651.20      | EST   |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 2       |                 |                | 2           |       | TON          | HAY MULCH                               | 651.25      | EST   |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 420     |                 |                | 420         |       | CY           | TOPSOIL                                 | 651.35      | EST   |                                |      |       |
|                                 |  |  |  |  |  |  |  |          |         | 3200            |                | 3200        |       | SY           | TEMPORARY EROSION MATTING               | 653.20      | 39    |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 400     |                 |                | 400         |       | SF           | TRAFFIC SIGNS, TYPE A                   | 675.20      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 1080    |                 |                | 1080        |       | LF           | SQUARE TUBE SIGN POST AND ANCHOR        | 675.341     | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 65      |                 |                | 65          |       | EACH         | REMOVING SIGNS                          | 675.50      | -     |                                |      |       |
|                                 |  |  |  |  |  |  |  |          | 9       |                 |                | 9           |       | EACH         | ERECTING SALVAGED SIGNS                 | 675.60      | -     |                                |      |       |



STATE OF VERMONT  
AGENCY OF TRANSPORTATION

## QUANTITY SHEET 3

[illegible]

|              |             |
|--------------|-------------|
| PROJECTNAME: | SPRINGFIELD |
|--------------|-------------|

PROJECT NUMBER. STP 0136(1)

FILE NAME: 02c084\..02c084\_frm.dgn

PROJECT MANAGER: UPMA  
DESIGNED BY: N. PAPPAS

QUANTITY SHEET #3

PLOT DATE: 01/06/2008

DRAWN BY: N. PAPPAS

CHECKED BY: B. KIPP

SHEET 10 OF 68



[illegible]



[illegible]



[illegible]

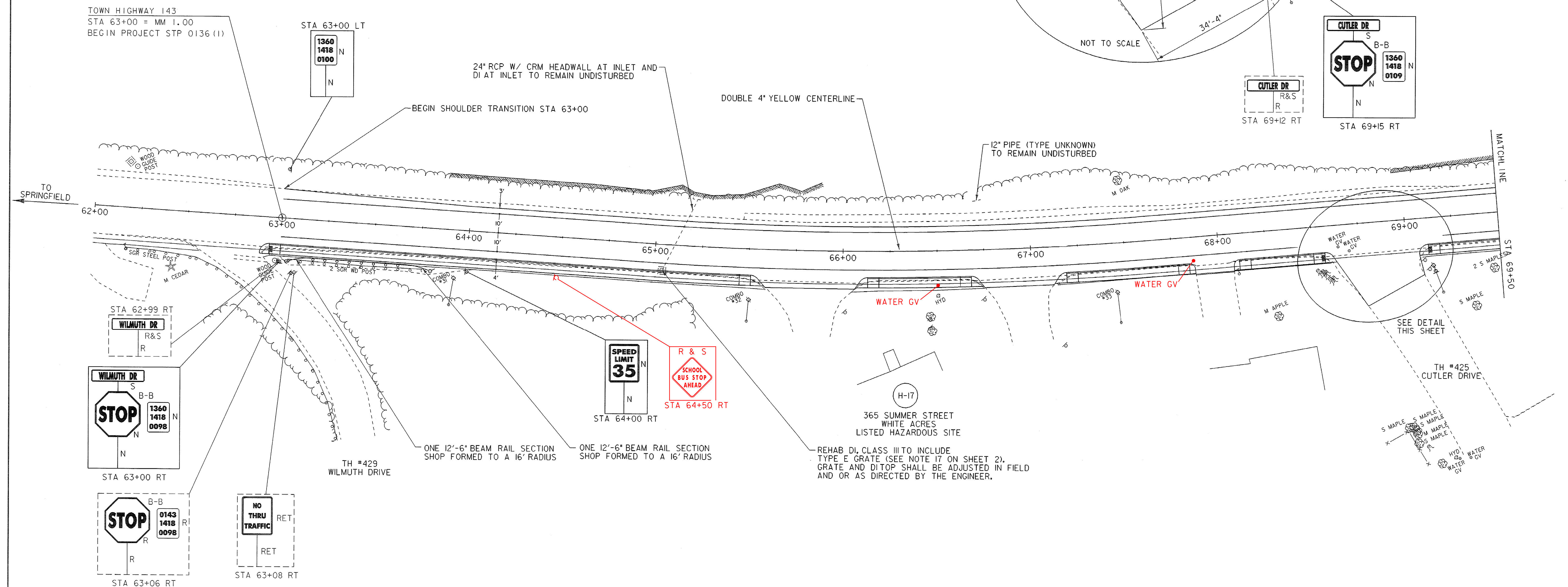
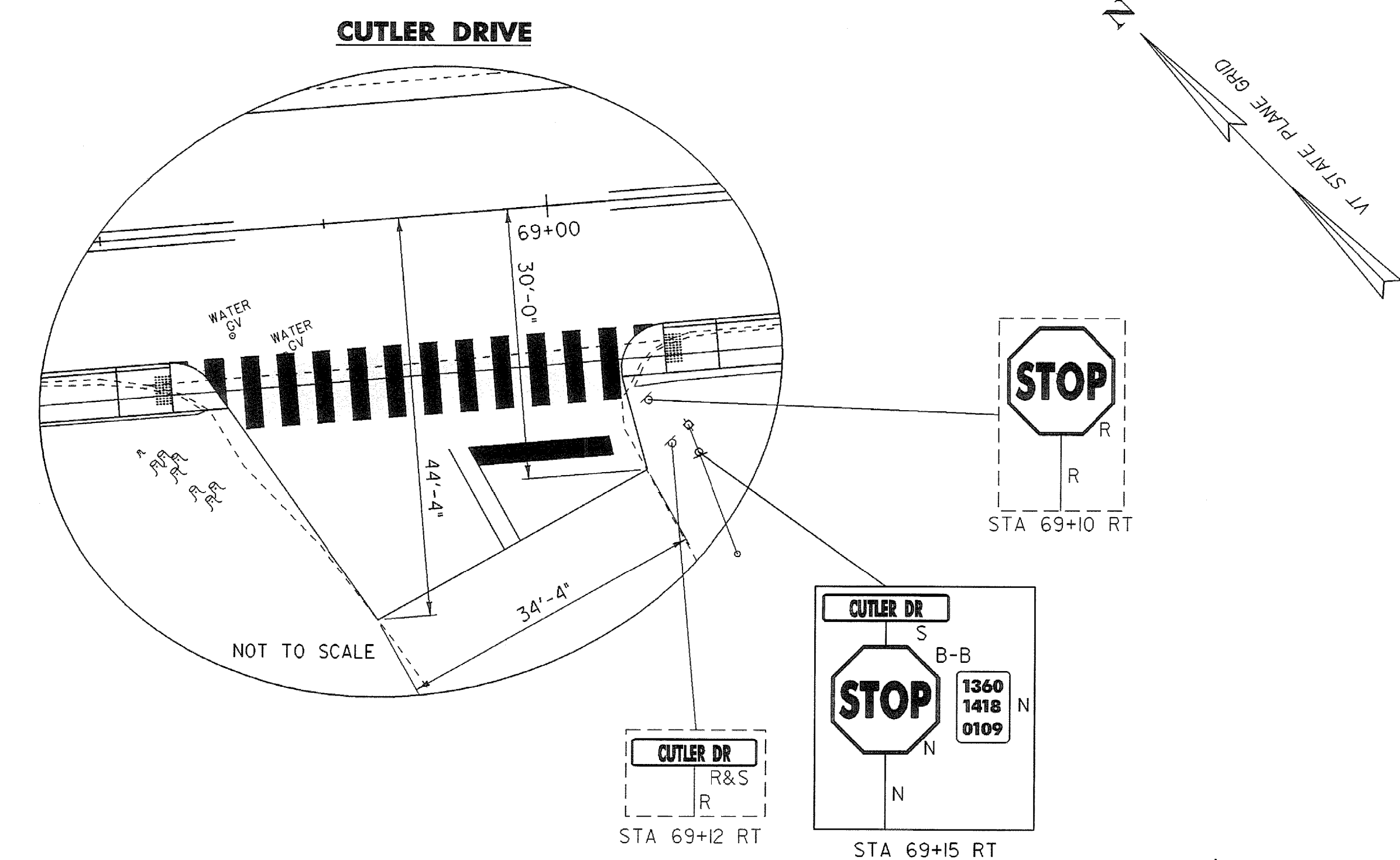


CROSSWALK MARKING  
STA 68+84 RT CUTLER DRIVE

REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III  
STA 65+04 RT

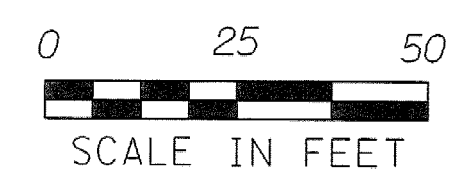
STA 62+95 RT  
STA 68+45 RT  
STA 69+20 RT

STA 62+96 TO 65+54 RT  
STA 66+09 TO 66+67 RT  
STA 67+20 TO 67+81 RT  
STA 68+10 TO 68+52 RT  
STA 69+15 TO 70+15 RT



R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

1. EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
2. SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
3. WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



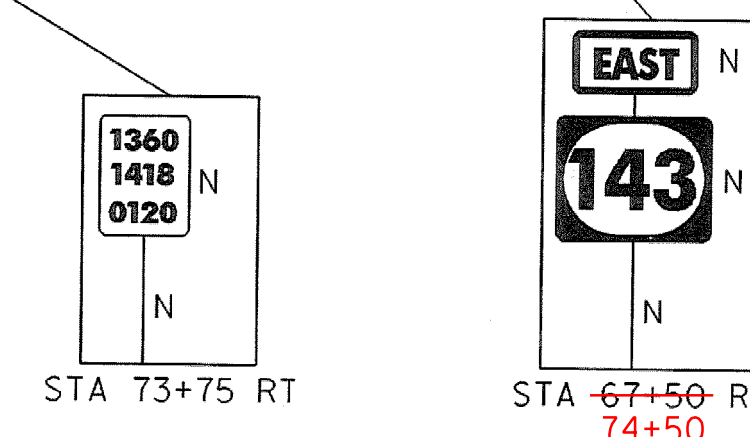
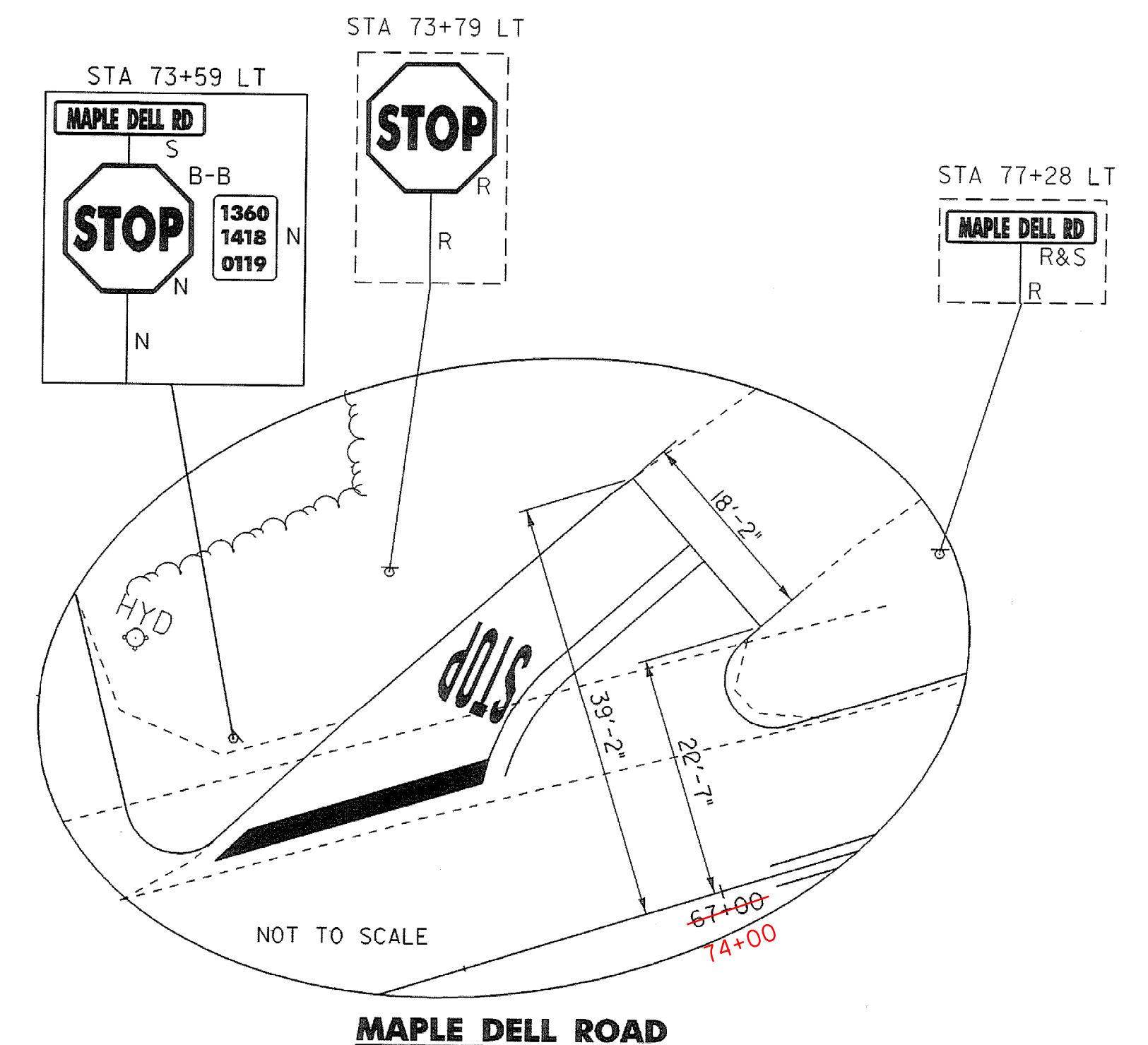
|                                        |                             |
|----------------------------------------|-----------------------------|
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 06-JAN-2009      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084.lay_OI         | SHEET 14 OF 68              |



|           |    |        |
|-----------|----|--------|
| STA 70+59 | RT | "STOP" |
| STA 73+82 | LT | "STOP" |

STA ~~70+18~~ RT  
70+14

STA 69+15 TO 70+15



0 25 50  
SCALE IN FEET

|                                        |                             |
|----------------------------------------|-----------------------------|
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT LEADER: K, UPMAL               | DRAWN BY: B, KIPP\N, PAPPAS |
| DESIGNED BY: B, KIPP\N, PAPPAS         | CHECKED BY: N, PAPPAS       |
| IPARM FILE NAME: 02c084_lay_02         | SHEET 15 OF 68              |



TEMPORARY 4" YELLOW LINE, PAINT  
STA 77+00 TO STA 82+83, SOLID LT & RT  
STA 83+25 TO STA 84+50, SOLID LT & RT  
STA 83+05 LT, SOLID LT & RT

TEMPORARY 24" STOP BAR, PAINT  
STA 82+91LT MAPLE DELL ROAD

TEMPORARY LETTER OR SYMBOL, PAINT  
STA 82+91LT "STOP"

4" YELLOW LINE  
STA 77+00 TO STA 82+83, SOLID LT & RT  
STA 83+25 TO STA 84+50, SOLID LT & RT  
STA 83+05 LT, SOLID LT & RT

24" STOP BAR  
STA 82+91LT MAPLE DELL ROAD

LETTER OR SYMBOL  
STA 82+91LT "STOP"

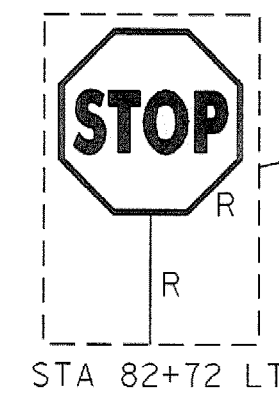
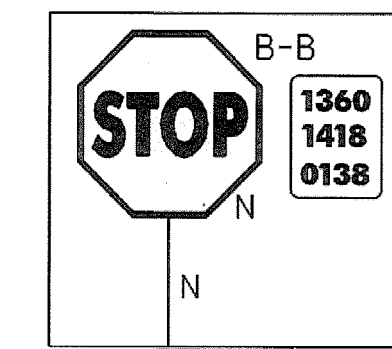
REMOVING SIGNS  
STA 81+25 RT  
STA 82+72 LT

REMOVAL AND DISPOSAL OF GUARDRAIL  
STA 77+00 TO STA 77+05 RT  
STA ~~77+46~~ TO STA ~~80+69~~ RT ~~77+52~~ TO ~~80+64~~ LT  
STA 80+86 TO STA 83+53 RT  
STA ~~84+30~~ TO STA ~~84+50~~ LT ~~84+13~~ TO ~~85+18~~ LT

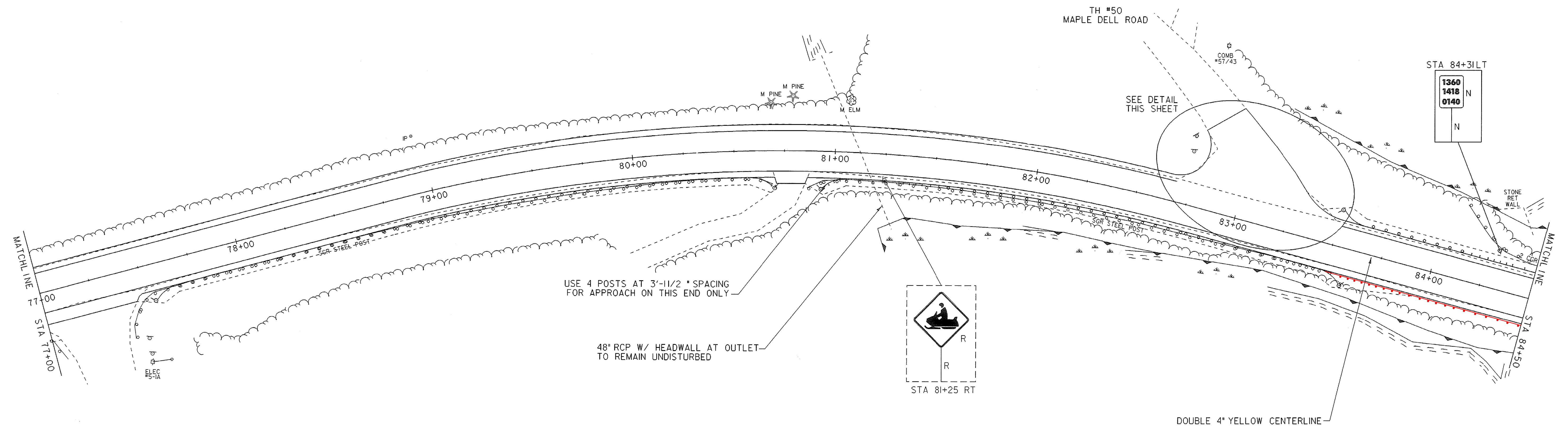
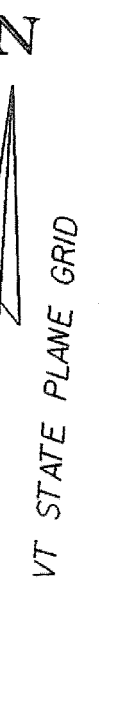
STEEL BEAM GUARDRAIL, GALVANIZED  
STA ~~77+56~~ TO STA ~~80+69~~ RT ~~77+47~~ TO ~~80+64~~ RT  
STA 80+94 TO STA 81+06 RT  
STA 81+31 TO STA 83+58 RT  
STA ~~83+52~~ TO STA ~~84+38~~ LT ~~83+38~~ TO ~~84+50~~ LT

STEEL BEAM GUARDRAIL, GALVANIZED/NESTED  
~~STA 81+06 TO STA 81+31 RT~~  
STA 84+38 TO STA ~~84+50~~ LT ~~84+63~~ LT  
STA ~~84+38~~ TO STA ~~84+63~~ RT  
ANCHOR FOR STEEL BEAM RAIL  
STA ~~77+56~~ RT ~~77+50~~ RT  
STA ~~80+69~~ RT ~~80+63~~ RT  
STA 80+94 RT  
STA 83+58 RT  
STA 83+52 LT

DELINEATOR WITH STEEL POSTS  
STA 77+56 RT  
STA 80+69 RT  
STA 80+94 RT  
STA 83+58 RT  
STA 83+52 LT



MAPLE DELL ROAD



LEGEND

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

NOTES:

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.

0 25 50  
SCALE IN FEET

LAYOUT SHEET #3

PROJECT NAME: SPRINGFIELD  
PROJECT NUMBER: STP 0136(1)

FILE NAME: ...02C084...02C084\_nul.dgn PLOT DATE: 06-JAN-2009  
PROJECT LEADER: K. UPMAL DRAWN BY: B. KIPP\N. PAPPAS  
DESIGNED BY: B. KIPP\N. PAPPAS CHECKED BY: N. PAPPAS  
IPARM FILE NAME: 02c084\_lay\_03 SHEET 16 OF 68



TEMPORARY 4" YELLOW LINE, PAINT  
STA 84+50 TO STA 92+00, SOLID LT & RT

4" YELLOW LINE  
STA 84+50 TO STA 92+00, SOLID LT & RT

REMOVING SIGNS  
STA 84+72 RT

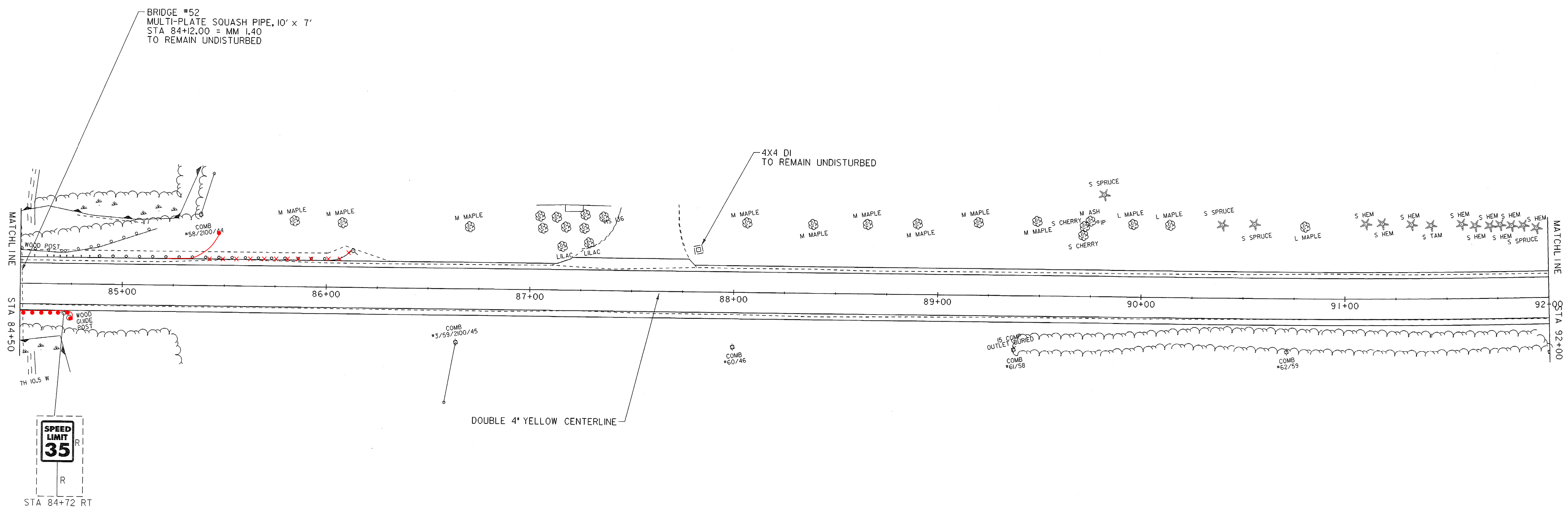
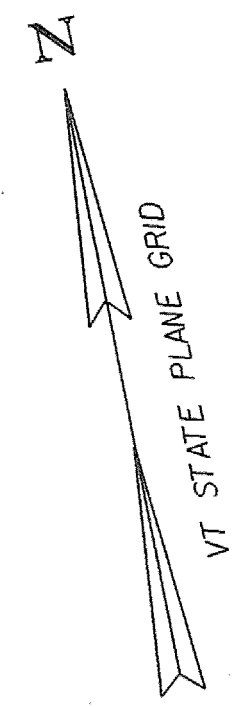
REMOVAL AND DISPOSAL OF GUARDRAIL  
STA 84+50 TO STA ~~85+00~~ LT  
~~85+18~~

STEEL BEAM GUARDRAIL, GALVANIZED  
STA 84+63 TO STA ~~86+12~~ LT      STA 84+00 TO 84+62 RT  
~~85+40~~

STEEL BEAM GUARDRAIL, GALVANIZED/NESTED  
STA ~~84+50~~ TO STA 86+63 LT  
~~84+38~~

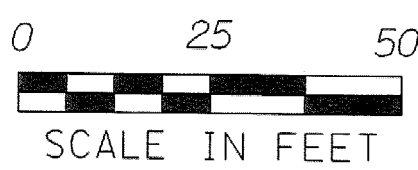
ANCHOR FOR STEEL BEAM RAIL  
STA ~~86+12~~ LT      STA 84+98 RT  
~~85+40~~

DELINEATOR WITH STEEL POSTS  
STA 86+12 LT



| LEGEND |                    |
|--------|--------------------|
| R      | = REMOVE EXISTING  |
| S      | = SALVAGE          |
| R&S    | = REMOVE & SALVAGE |
| N      | = NEW              |
| RET    | = RETAIN           |
| B-B    | = BACK TO BACK     |

- NOTES:
- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
  - SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
  - WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



LAYOUT SHEET #4

|                                        |                          |                             |
|----------------------------------------|--------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD              |                             |
| PROJECT NUMBER:                        | STP 0136(1)              |                             |
| FILE NAME: ...02C084\...02C084_nul.dgn | PROJECT LEADER: K. UPMAL | PLOT DATE: 06-JAN-2009      |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS    | DRAWN BY: B. KIPP\N. PAPPAS |
| IPARM FILE NAME: 02c084_lay_04         | SHEET 17 OF 68           |                             |



TEMPORARY 4" YELLOW LINE, PAINT  
STA 92+00 TO STA 97+57, SOLID LT & RT  
STA 97+99 TO STA 99+50, SOLID LT & RT  
STA 99+96 RT, SOLID LT & RT

4" YELLOW LINE  
STA 92+00 TO STA 97+57, SOLID LT & RT  
STA 97+99 TO STA 99+50, SOLID LT & RT  
STA 99+96 RT, SOLID LT & RT

REMOVING SIGNS

STA 95+08 LT  
STA 97+96 RT  
STA 98+02 RT

ERECTING SALVAGED SIGNS

STA 97+94 RT

RELOCATE MAILBOX, MULTIPLE SUPPORT

STA 98+53 LT

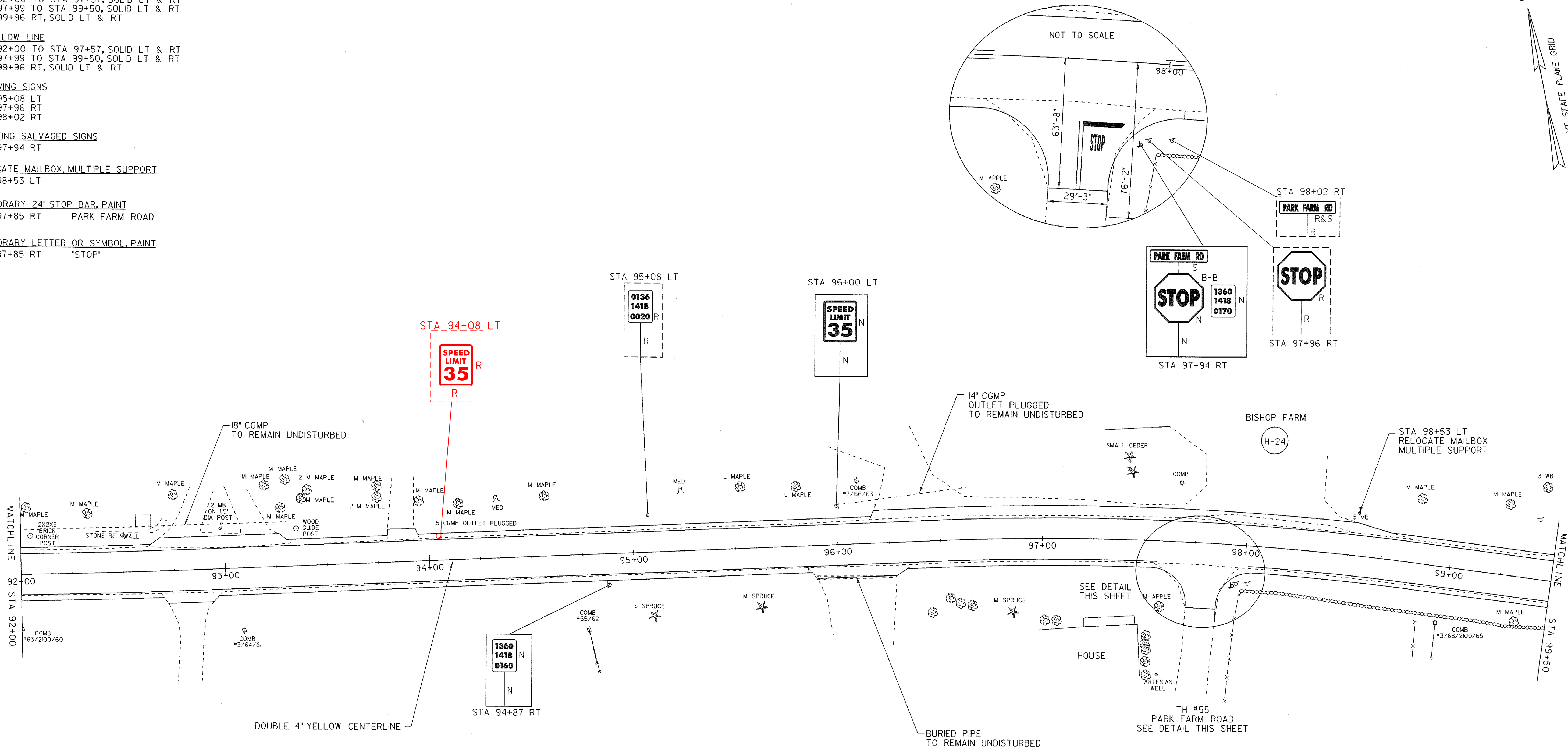
TEMPORARY 24" STOP BAR, PAINT

STA 97+85 RT PARK FARM ROAD

TEMPORARY LETTER OR SYMBOL, PAINT

STA 97+85 RT "STOP"

PARK FARM ROAD

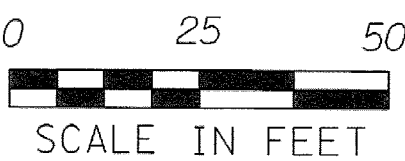


LEGEND

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

NOTES:

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



LAYOUT SHEET #5

PROJECT NAME: SPRINGFIELD  
PROJECT NUMBER: STP 0136(1)

FILE NAME: ...02c084\...02c084\_nul.dgn PLOT DATE: 30-DEC-2008  
PROJECT LEADER: K. UPMAL DRAWN BY: B. KIPPAN, PAPPAS  
DESIGNED BY: B. KIPPAN, PAPPAS CHECKED BY: N. PAPPAS  
IPARM FILE NAME: 02c084\_lay\_05 SHEET 18 OF 68



TEMPORARY 4" YELLOW LINE, PAINT  
STA 99+50 TO STA 100+56, SOLID LT & RT  
STA 100+90 TO STA 107+00, SOLID LT & RT  
STA 100+75 RT, SOLID LT & RT

4" YELLOW LINE  
STA 99+50 TO STA 100+56, SOLID LT & RT  
STA 100+90 TO STA 107+00, SOLID LT & RT  
STA 100+75 RT, SOLID LT & RT

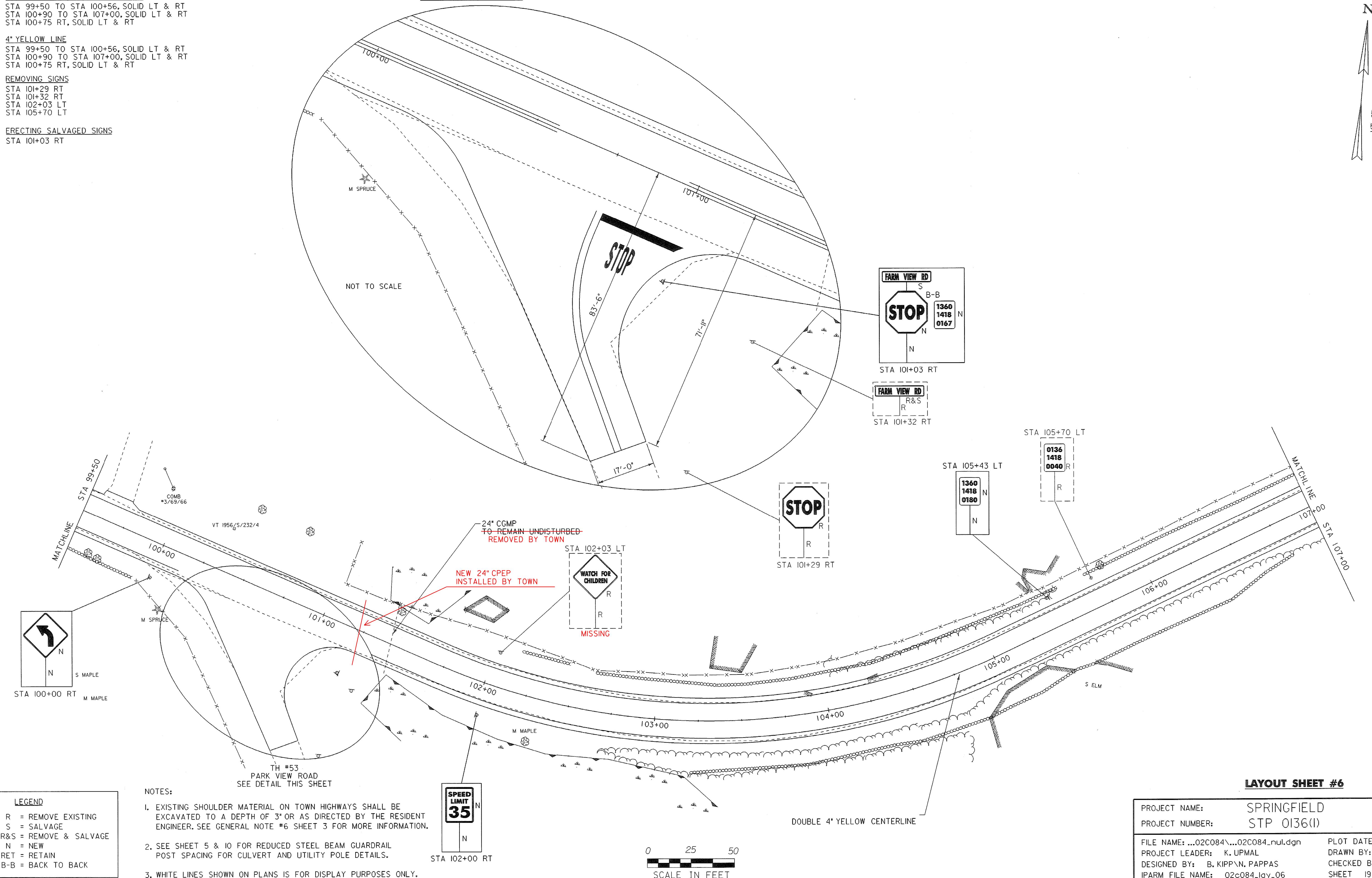
REMOVING SIGNS

STA 101+29 RT  
STA 101+32 RT  
STA 102+03 LT  
STA 105+70 LT

ERECTING SALVAGED SIGNS

STA 101+03 RT

PARK VIEW ROAD



LAYOUT SHEET #6

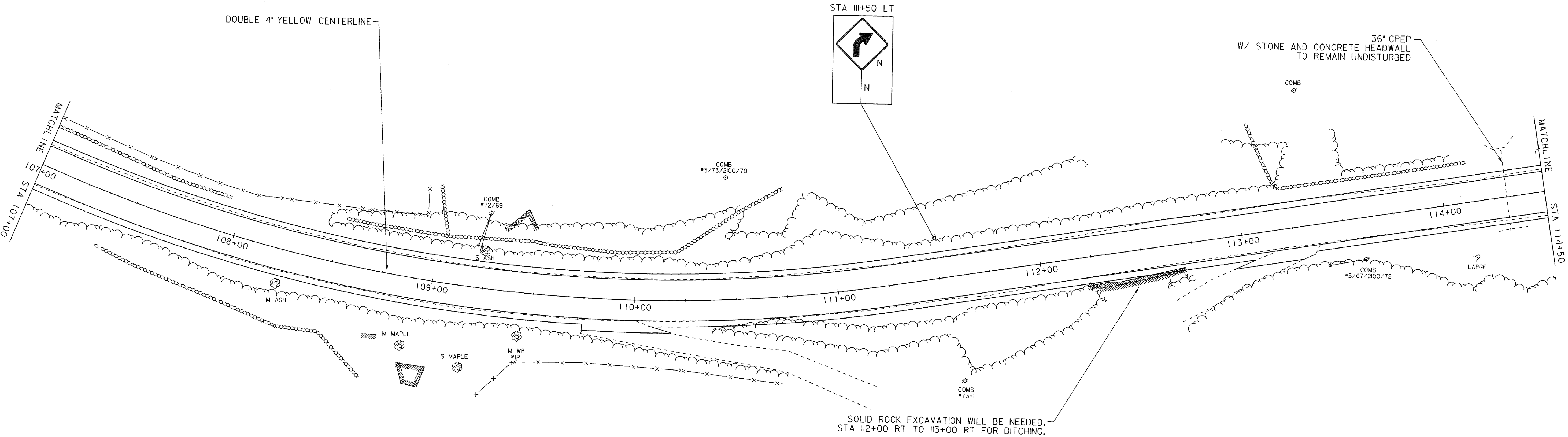
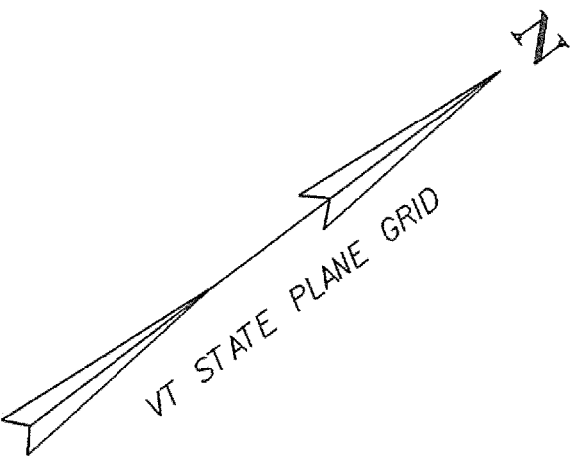
PROJECT NAME: SPRINGFIELD  
PROJECT NUMBER: STP 0136(1)

FILE NAME: ...02C084\...02C084\_nul.dgn PLOT DATE: 06-JAN-2009  
PROJECT LEADER: K. UPMAL DRAWN BY: B. KIPPAN, PAPPAS  
DESIGNED BY: B. KIPPAN, PAPPAS CHECKED BY: N. PAPPAS  
IPARM FILE NAME: 02c084\_lay\_06 SHEET 19 OF 68



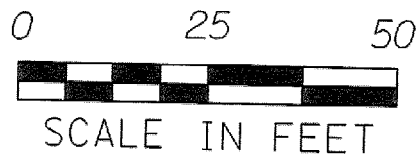
TEMPORARY 4" YELLOW LINE, PAINT  
STA 107+00 TO STA 114+50, SOLID LT & RT  
  
4" YELLOW LINE  
STA 107+00 TO STA 114+50, SOLID LT & RT

STONE FILL TYPE 1  
STA 114+00 TO 114+50 RT



| LEGEND |                    |
|--------|--------------------|
| R      | = REMOVE EXISTING  |
| S      | = SALVAGE          |
| R&S    | = REMOVE & SALVAGE |
| N      | = NEW              |
| RET    | = RETAIN           |
| B-B    | = BACK TO BACK     |

- NOTES:
- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
  - SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
  - WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



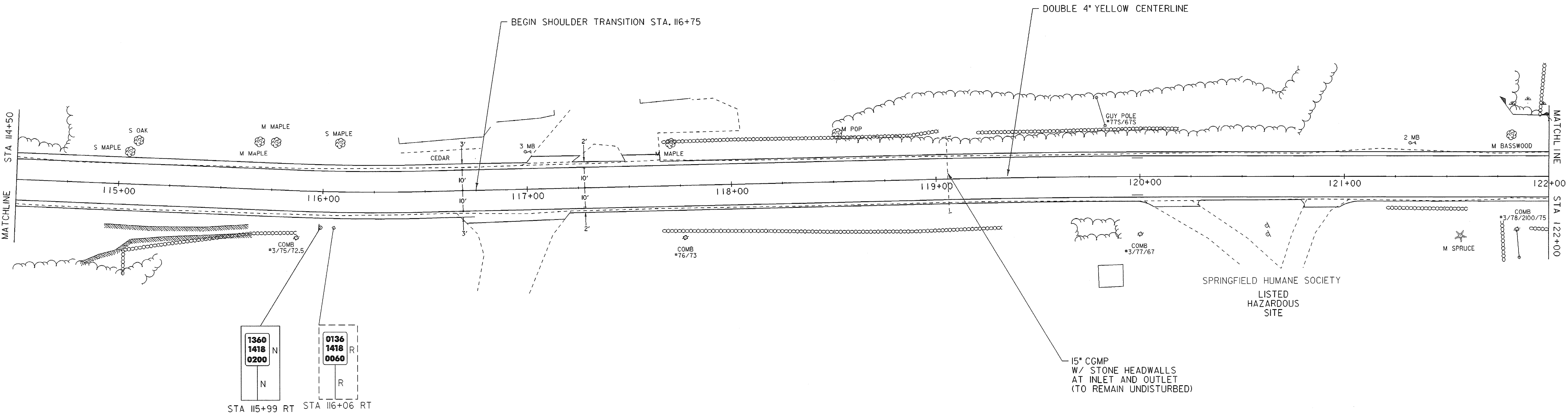
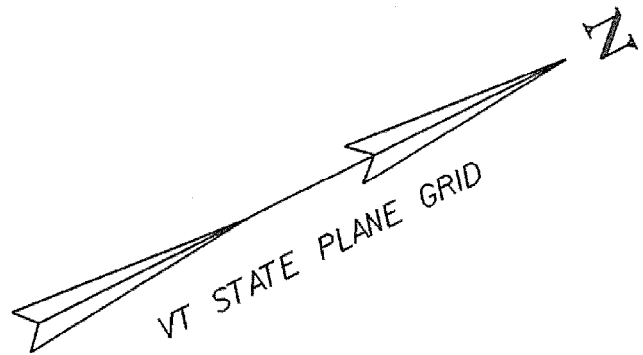
LAYOUT SHEET #7

|                                        |             |                   |
|----------------------------------------|-------------|-------------------|
| PROJECT NAME:                          | SPRINGFIELD |                   |
| PROJECT NUMBER:                        | STP 0136(I) |                   |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE:  | 30-DEC-2008       |
| PROJECT LEADER: K. UPMAL               | DRAWN BY:   | B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: | N. PAPPAS         |
| IPARM FILE NAME: 02c084_lay_07         | SHEET       | 20 OF 68          |



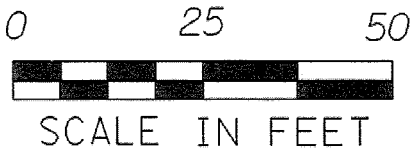
TEMPORARY 4" YELLOW LINE, PAINT  
STA 114+50 TO STA 122+00, SOLID LT & RT  
4" YELLOW LINE  
STA 114+50 TO STA 122+00, SOLID LT & RT  
REMOVING SIGNS  
STA 116+06 RT

STONE FILL, TYPE I  
STA 114+50 TO 115+75 RT



| LEGEND |                    |
|--------|--------------------|
| R      | = REMOVE EXISTING  |
| S      | = SALVAGE          |
| R&S    | = REMOVE & SALVAGE |
| N      | = NEW              |
| RET    | = RETAIN           |
| B-B    | = BACK TO BACK     |

- NOTES:
- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
  - SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
  - WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



LAYOUT SHEET #8

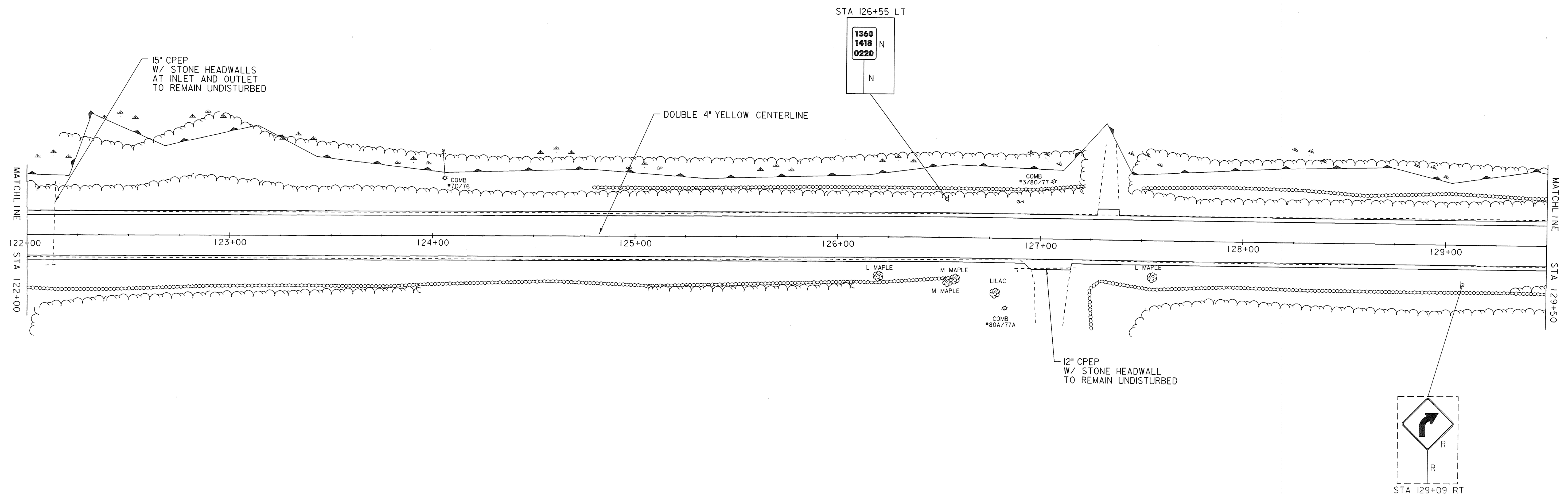
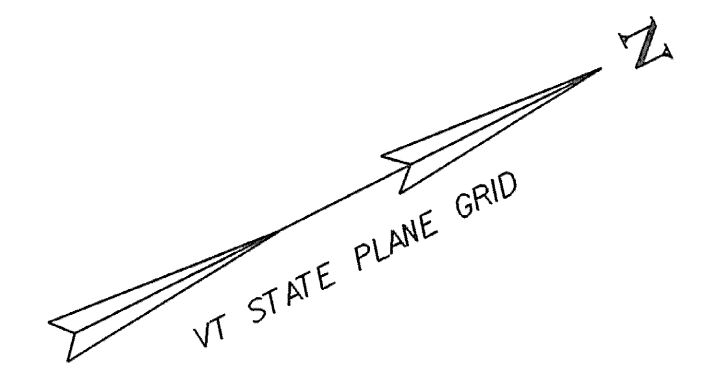
|                                        |                             |
|----------------------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD                 |
| PROJECT NUMBER:                        | STP 0136(1)                 |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPPAN, PAPPAS |
| DESIGNED BY: B. KIPPAN, PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_08         | SHEET 21 OF 68              |



TEMPORARY 4" YELLOW LINE, PAINT  
STA 122+00 TO STA 129+50, SOLID LT & RT

4" YELLOW LINE  
STA 122+00 TO STA 129+50, SOLID LT & RT

REMOVING SIGNS  
STA 129+09 RT



**LEGEND**  
R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

**NOTES:**

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.

0 25 50  
SCALE IN FEET

**LAYOUT SHEET #9**

|                 |             |                                        |                             |
|-----------------|-------------|----------------------------------------|-----------------------------|
| PROJECT NAME:   | SPRINGFIELD | FILE NAME: ...02c084\...02c084_nul.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT NUMBER: | STP 0136(1) | PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
|                 |             | DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
|                 |             | IPARM FILE NAME: 02c084_lay_09         | SHEET 22 OF 68              |



4" YELLOW LINE  
STA 129+50 TO STA 132+40, SOLID LT & RT  
STA 132+61 LT, SOLID LT & RT  
STA 132+90 TO STA 137+00, SOLID LT & RT

TEMPORARY LETTER OR SYMBOL, PAINT  
STA 132+50 LT "STOP"

|                          |    |
|--------------------------|----|
| STA 135+50 TO STA 136+48 | LT |
| STA 136+52 TO STA 136+73 | LT |
| STA 136+73 TO STA 137+00 | LT |

DELINEATOR WITH STEEL POSTS  
STA 135+50 LT

STA 132+45 LT  
STA 132+90 LT  
STA 132+98 RT  
STA 134+35 RT  
STA 136+68 LT

STA 131+00 = MM 2.29  
8" RECLAIM  
2-1/2" TYPE IIS BASE COURSE  
1-1/2" TYPE IVS SURFACE COURSE

STA 129+61 LT



N

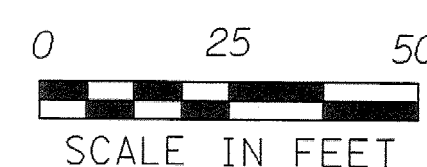
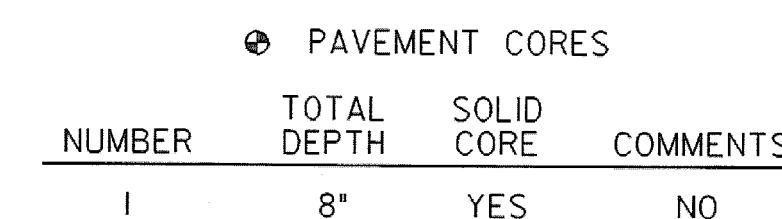
N

1. EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
2. SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
3. WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

|                 |             |
|-----------------|-------------|
| PROJECT NAME:   | SPRINGFIELD |
| PROJECT NUMBER: | STP 0136(I) |

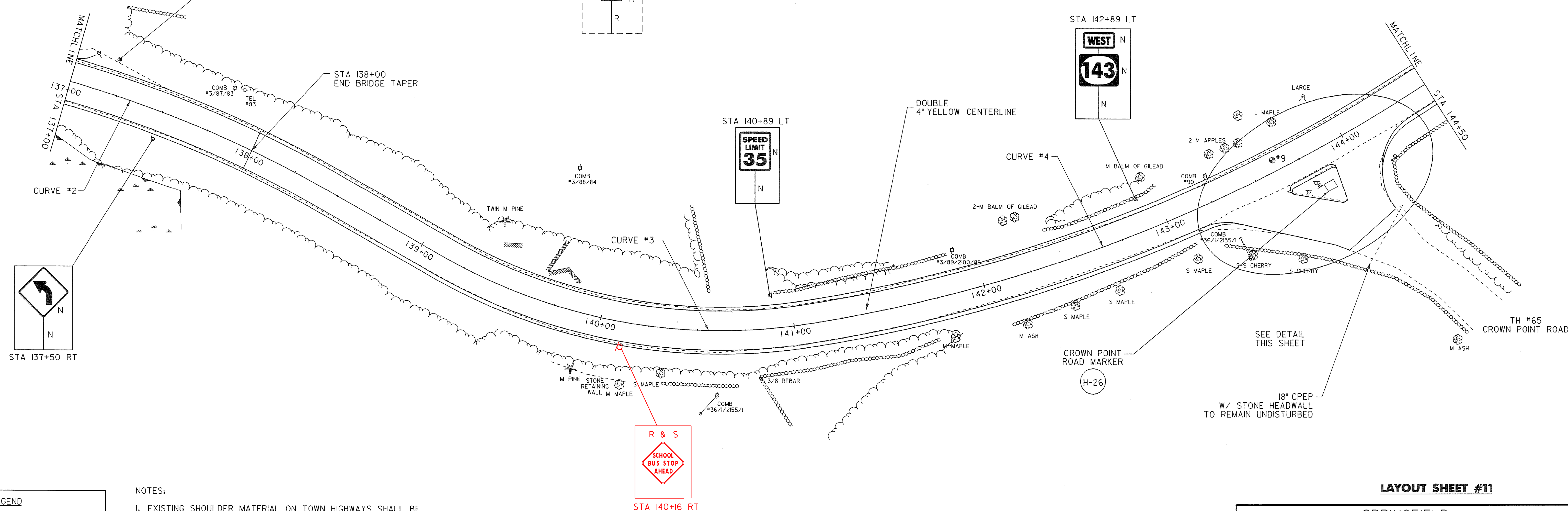
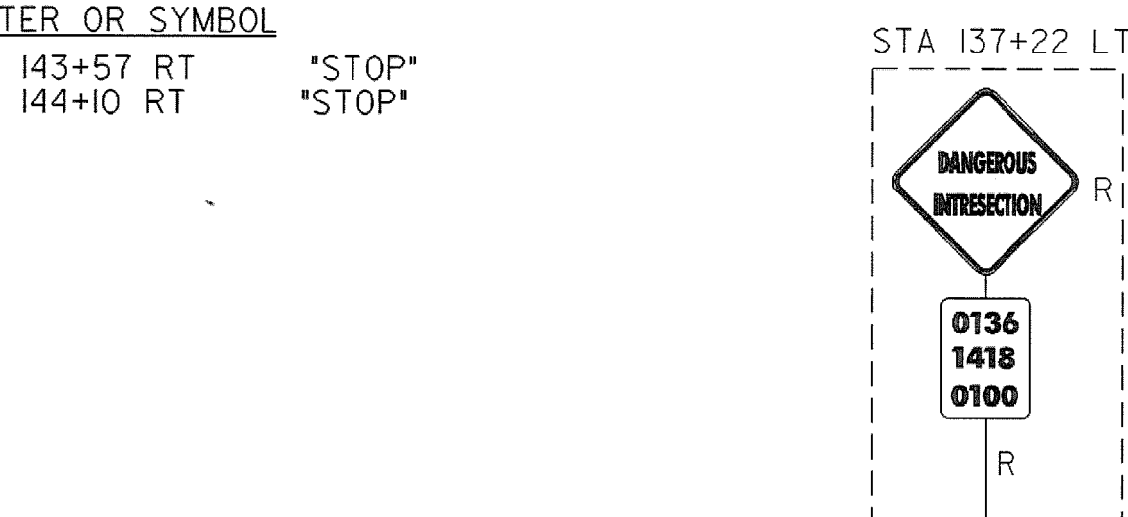
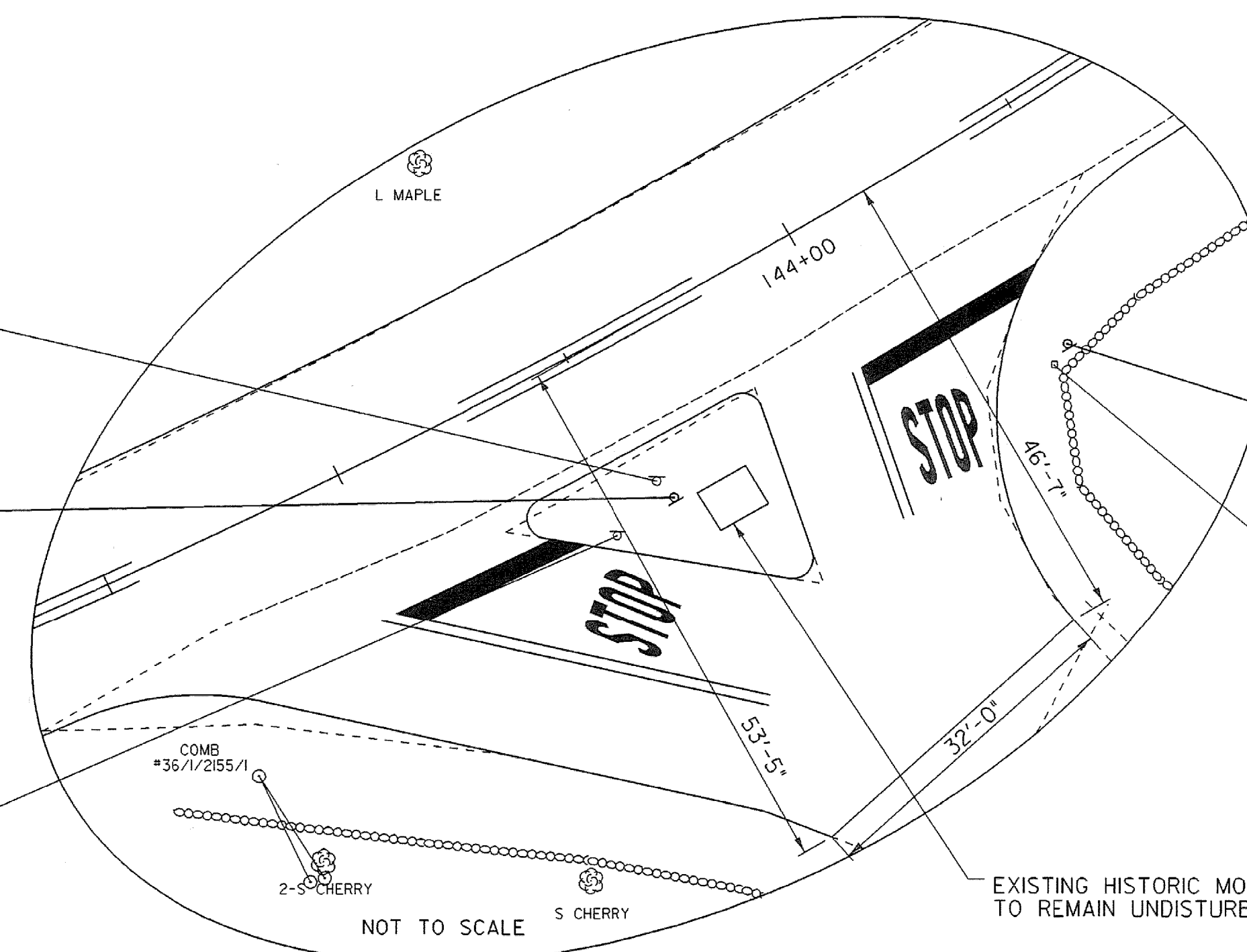
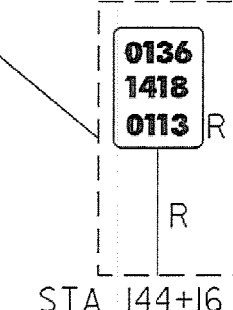
|                                        |                             |
|----------------------------------------|-----------------------------|
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_10         | SHEET 23 OF 68              |





STA 143+57 RT "STOP"  
STA 144+10 RT "STOP"

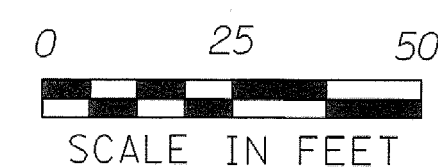
STA 143+78 RT



R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

1. EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
2. SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
3. WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.

|                                        |                             |
|----------------------------------------|-----------------------------|
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_11         | SHEET 24 OF 68              |

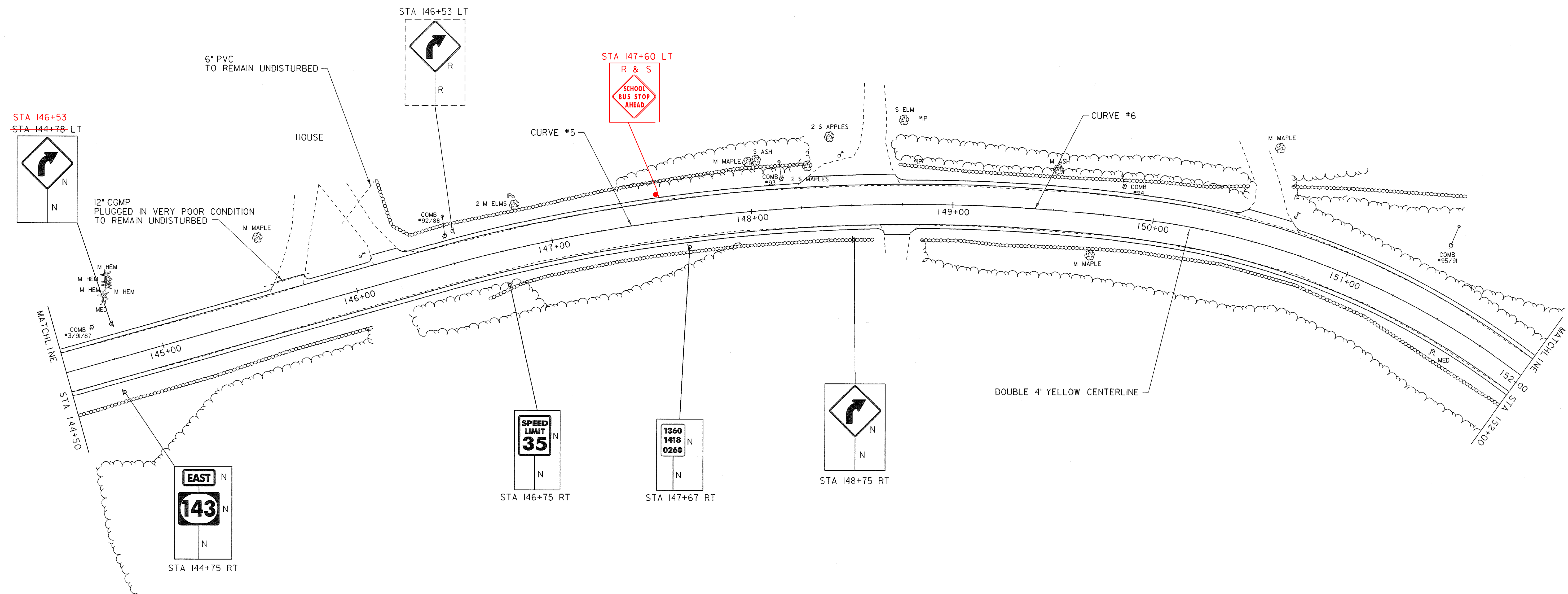
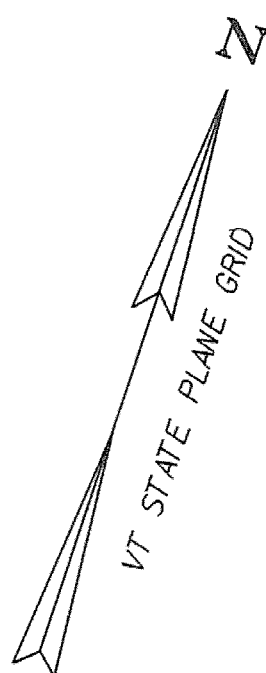




TEMPORARY 4" YELLOW LINE, PAINT  
STA 144+50 TO STA 152+00, SOLID LT & RT

4" YELLOW LINE  
STA 144+50 TO STA 152+00, SOLID LT & RT

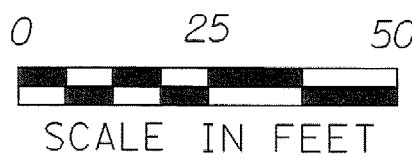
REMOVING SIGNS  
STA 146+53 LT



LEGEND

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

- NOTES:
- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
  - SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
  - WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



LAYOUT SHEET #12

|                  |                             |             |                   |
|------------------|-----------------------------|-------------|-------------------|
| PROJECT NAME:    | SPRINGFIELD                 | PLOT DATE:  | 30-DEC-2008       |
| PROJECT NUMBER:  | STP 0136(1)                 | DRAWN BY:   | B. KIPP\N. PAPPAS |
| FILE NAME:       | ...02C084\...02C084_nul.dgn | CHECKED BY: | N. PAPPAS         |
| PROJECT LEADER:  | K. UPMAL                    | SHEET       | 25 OF 68          |
| DESIGNED BY:     | B. KIPP\N. PAPPAS           |             |                   |
| IPARM FILE NAME: | 02c084.lay_12               |             |                   |

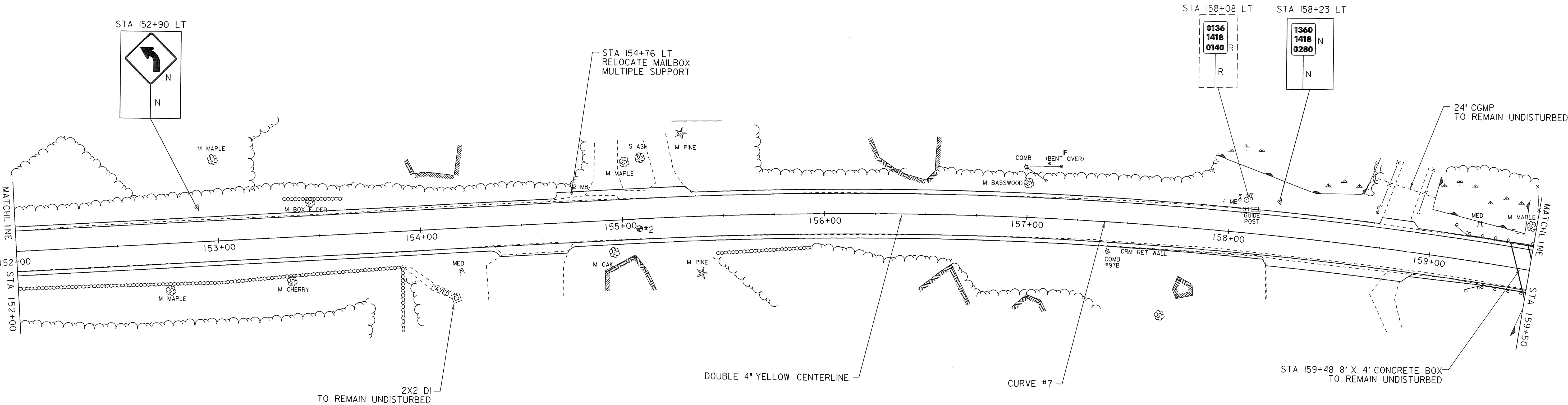
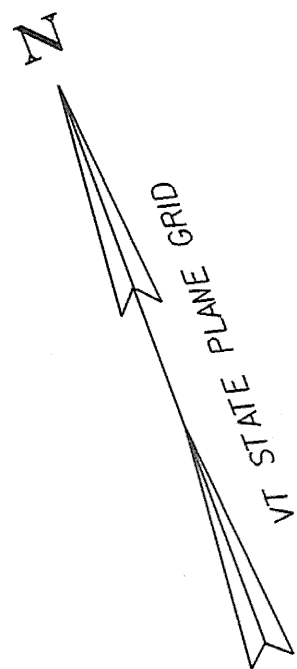


TEMPORARY 4" YELLOW LINE, PAINT  
STA 152+00 TO STA 159+50, SOLID LT & RT

4" YELLOW LINE  
STA 152+00 TO STA 159+50, SOLID LT & RT

REMOVING SIGNS  
STA 158+08 LT

RELOCATE MAILBOX, MULTIPLE SUPPORT  
STA 154+76 LT

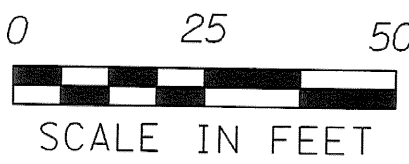


LEGEND

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

NOTES:

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



PAVEMENT CORES

| NUMBER | TOTAL DEPTH | SOLID CORE | COMMENTS                    |
|--------|-------------|------------|-----------------------------|
| 2      | 7'          | NO         | RECOVERED 5 1/2" SOLID CORE |

LAYOUT SHEET #13

|                                        |                             |
|----------------------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD                 |
| PROJECT NUMBER:                        | STP 0136(1)                 |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 06-JAN-2009      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPPAN, PAPPAS |
| DESIGNED BY: B. KIPPAN, PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_13         | SHEET 26 OF 68              |



TEMPORARY 4" YELLOW LINE, PAINT  
STA 159+50 TO STA 167+00, SOLID LT & RT

4" YELLOW LINE  
STA 159+50 TO STA 167+00, SOLID LT & RT

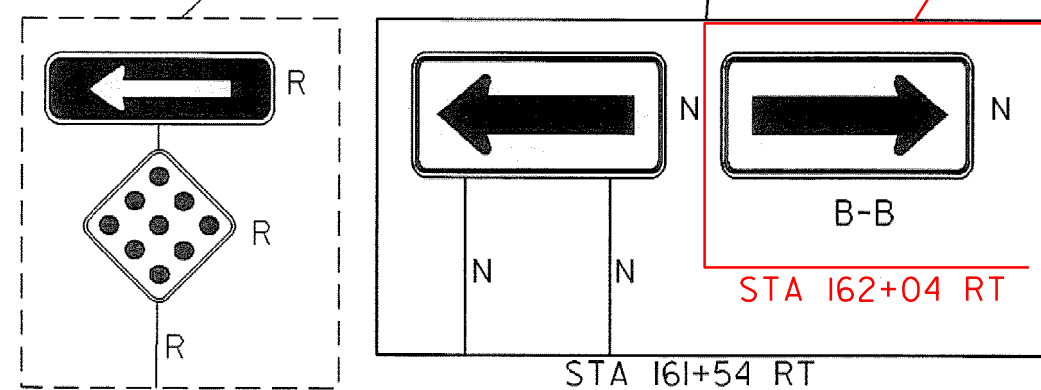
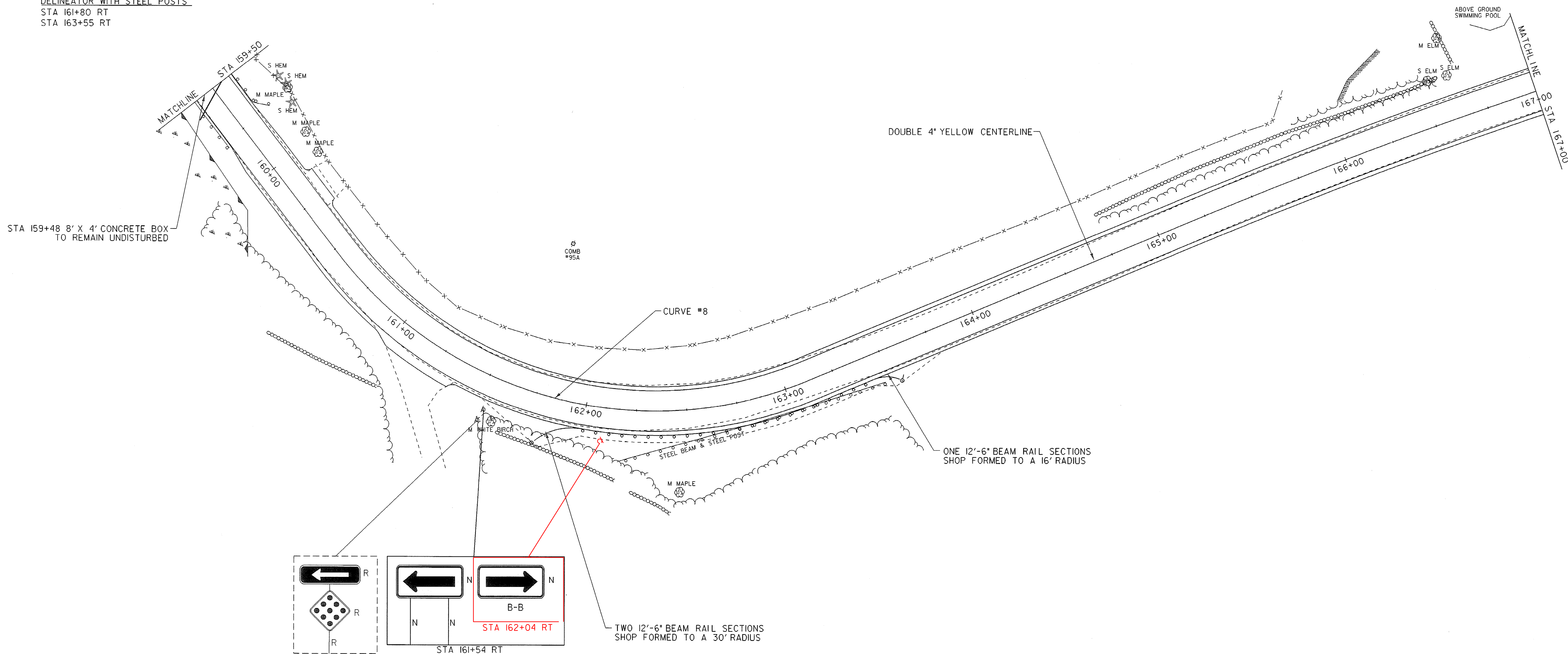
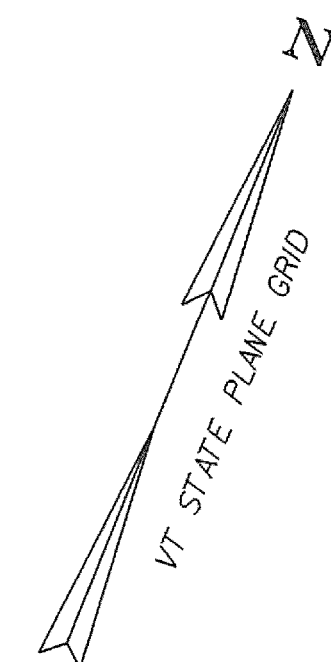
REMOVING SIGNS  
STA 161+53 RT

REMOVAL AND DISPOSAL OF GUARDRAIL  
STA 162+20 TO STA 163+47 RT

STEEL BEAM GUARDRAIL, GALVANIZED  
STA 161+80 TO STA 163+55 RT

ANCHOR FOR STEEL BEAM RAIL  
STA 161+80 RT  
STA 163+55 RT

DELINEATOR WITH STEEL POSTS  
STA 161+80 RT  
STA 163+55 RT



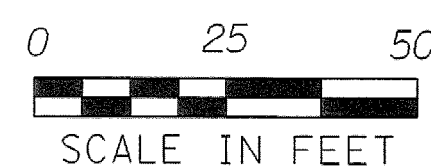
TWO 12'-6" BEAM RAIL SECTIONS  
SHOP FORMED TO A 30' RADIUS

LEGEND

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

NOTES:

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



LAYOUT SHEET #14

|                                        |                             |
|----------------------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD                 |
| PROJECT NUMBER:                        | STP 0136(1)                 |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 06-JAN-2009      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_14         | SHEET 27 OF 68              |



TEMPORARY 4" YELLOW LINE, PAINT  
STA 167+00 TO STA 174+50, SOLID LT & RT  
4" YELLOW LINE  
STA 167+00 TO STA 174+50, SOLID LT & RT  
REMOVING SIGNS  
STA 168+52 RT

STEEL BEAM GUARDRAIL, GALVANIZED  
STA 174+21.09 TO STA 174+46.5 RT  
STA 174+24.67 TO STA 174+46.5 LT

HD STEEL BEAM GUARDRAIL, GALVANIZED  
STA 174+46.5 TO STA 174+50 RT  
STA 174+46.5 TO STA 174+50 LT

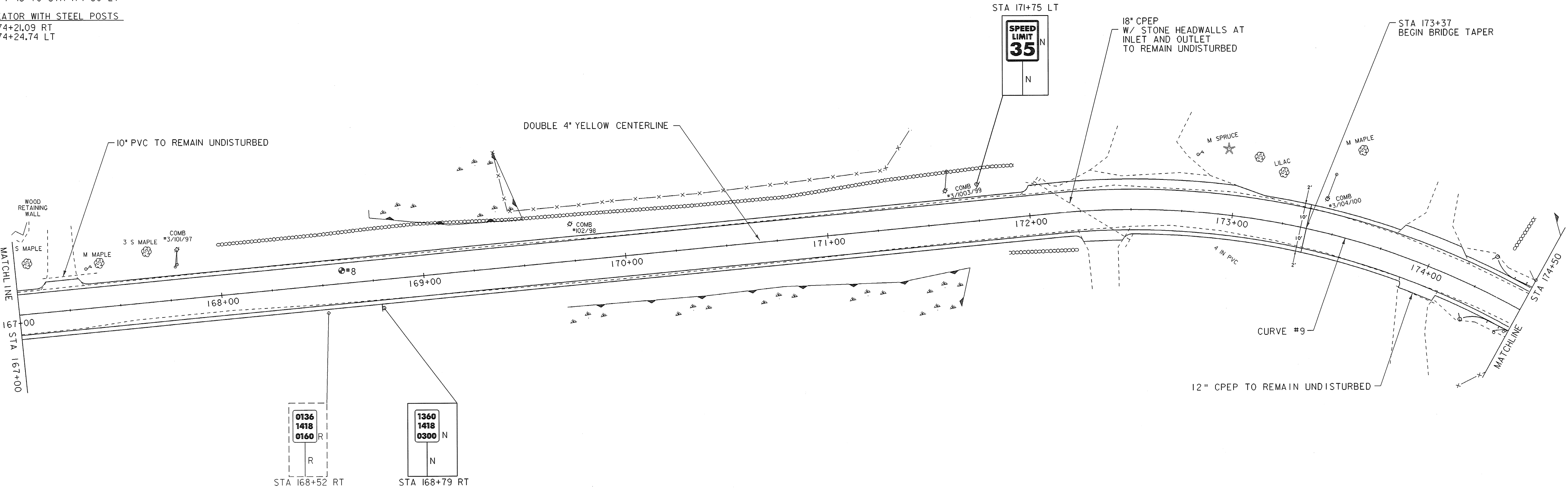
ANCHOR FOR STEEL BEAM RAIL  
STA 174+21.09 RT  
STA 174+24.67 LT

REMOVAL AND DISPOSAL OF GUARDRAIL  
STA 174+43 TO STA 174+50 RT  
STA 174+45 TO STA 174+50 LT

DELINEATOR WITH STEEL POSTS  
STA 174+21.09 RT  
STA 174+24.74 LT

REMOVAL AND DISPOSAL OF GUARDRAIL  
STA 174+43 TO STA 174+50 RT  
STA 174+45 TO STA 174+50 LT

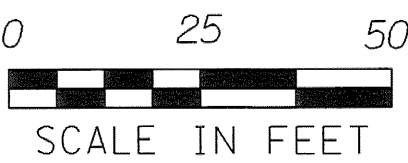
DELINEATOR WITH STEEL POSTS  
STA 174+21.09 RT  
STA 174+24.74 LT



LAYOUT SHEET #15

| LEGEND |                    |
|--------|--------------------|
| R      | = REMOVE EXISTING  |
| S      | = SALVAGE          |
| R&S    | = REMOVE & SALVAGE |
| N      | = NEW              |
| RET    | = RETAIN           |
| B-B    | = BACK TO BACK     |

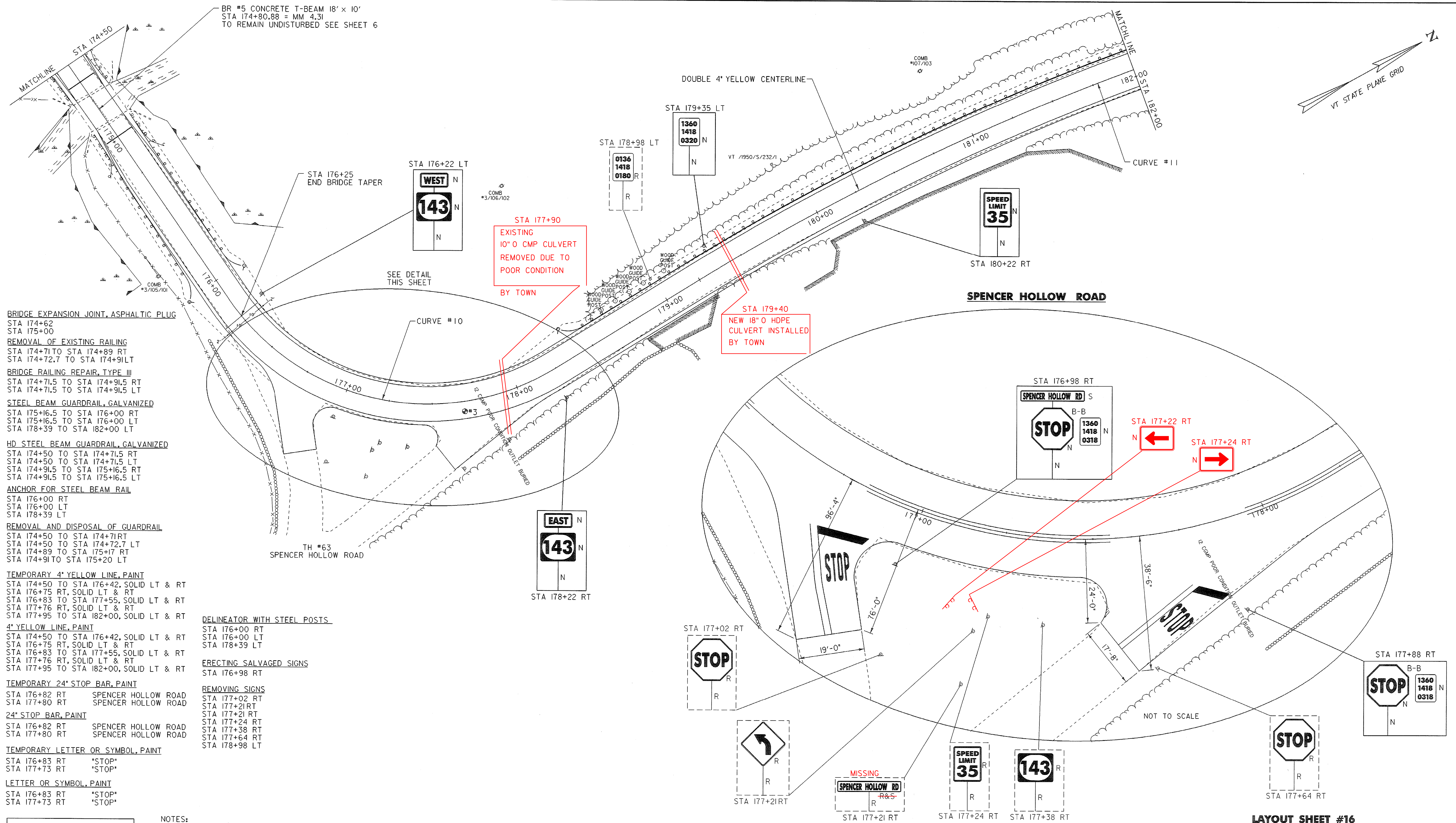
- NOTES:
- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
  - SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
  - WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



| NUMBER | TOTAL DEPTH | SOLID CORE | COMMENTS                    |
|--------|-------------|------------|-----------------------------|
| 8      | 6'          | NO         | RECOVERED 3 1/2" SOLID CORE |

|                                        |             |                   |
|----------------------------------------|-------------|-------------------|
| PROJECT NAME:                          | SPRINGFIELD |                   |
| PROJECT NUMBER:                        | STP 0136(1) |                   |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE:  | 06-JAN-2009       |
| PROJECT LEADER: K. UPMAL               | DRAWN BY:   | B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: | N. PAPPAS         |
| IPARM FILE NAME: 02c084_lay_15         | SHEET       | 28 OF 68          |





BRIDGE EXPANSION JOINT, ASPHALTIC PLUG  
STA 174+62  
STA 175+00

REMOVAL OF EXISTING RAILING  
STA 174+71.0 TO STA 174+89 RT  
STA 174+72.7 TO STA 174+91 LT

BRIDGE RAILING REPAIR, TYPE III  
STA 174+71.5 TO STA 174+91.5 RT  
STA 174+71.5 TO STA 174+91.5 LT

STEEL BEAM GUARDRAIL, GALVANIZED  
STA 175+16.5 TO STA 176+00 RT  
STA 175+16.5 TO STA 176+00 LT  
STA 178+39 TO STA 182+00 LT

HD STEEL BEAM GUARDRAIL, GALVANIZED  
STA 174+50 TO STA 174+71.5 RT  
STA 174+50 TO STA 174+71.5 LT  
STA 174+91.5 TO STA 175+16.5 RT  
STA 174+91.5 TO STA 175+16.5 LT

ANCHOR FOR STEEL BEAM RAIL  
STA 176+00 RT  
STA 176+00 LT  
STA 178+39 LT

REMOVAL AND DISPOSAL OF GUARDRAIL  
STA 174+50 TO STA 174+71 RT  
STA 174+50 TO STA 174+72.7 LT  
STA 174+89 TO STA 175+17 RT  
STA 174+91 TO STA 175+20 LT

TEMPORARY 4' YELLOW LINE, PAINT  
STA 174+50 TO STA 176+42, SOLID LT & RT  
STA 176+75 RT, SOLID LT & RT  
STA 176+83 TO STA 177+55, SOLID LT & RT  
STA 177+76 RT, SOLID LT & RT  
STA 177+95 TO STA 182+00, SOLID LT & RT

4' YELLOW LINE, PAINT  
STA 174+50 TO STA 176+42, SOLID LT & RT  
STA 176+75 RT, SOLID LT & RT  
STA 176+83 TO STA 177+55, SOLID LT & RT  
STA 177+76 RT, SOLID LT & RT  
STA 177+95 TO STA 182+00, SOLID LT & RT

TEMPORARY 24" STOP BAR, PAINT  
STA 176+82 RT SPENCER HOLLOW ROAD  
STA 177+80 RT SPENCER HOLLOW ROAD

24" STOP BAR, PAINT  
STA 176+82 RT SPENCER HOLLOW ROAD  
STA 177+80 RT SPENCER HOLLOW ROAD

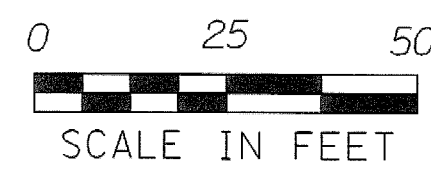
TEMPORARY LETTER OR SYMBOL, PAINT  
STA 176+83 RT "STOP"  
STA 177+73 RT "STOP"

LETTER OR SYMBOL, PAINT  
STA 176+83 RT "STOP"  
STA 177+73 RT "STOP"

**LEGEND**

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

- NOTES:
- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
  - SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
  - WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



| PAVEMENT CORES |             |            |          |
|----------------|-------------|------------|----------|
| NUMBER         | TOTAL DEPTH | SOLID CORE | COMMENTS |
| 3              | 5'          | YES        | NO       |

**LAYOUT SHEET #16**

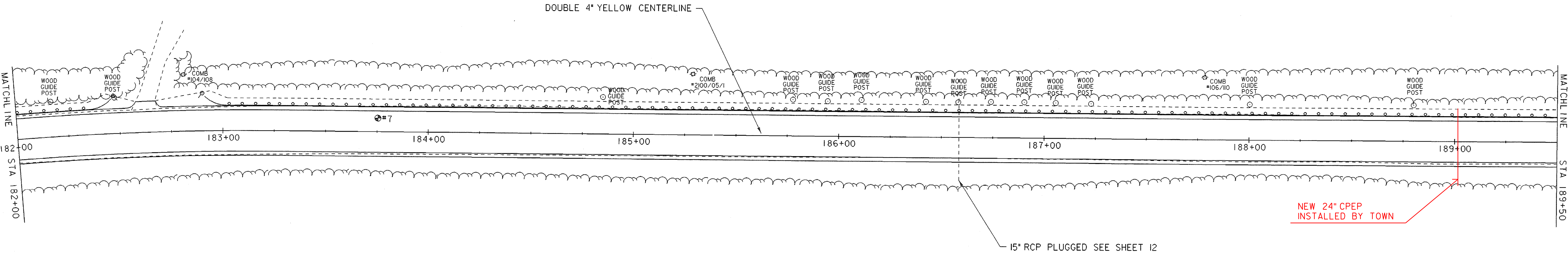
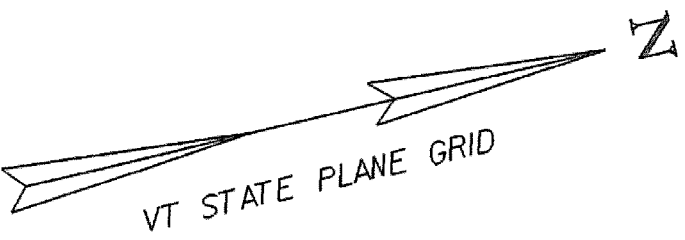
PROJECT NAME: SPRINGFIELD  
PROJECT NUMBER: STP 0136(I)

FILE NAME: ...02C084\...02C084\_nul.dgn  
PROJECT LEADER: K. UPMAL  
DESIGNED BY: B. KIPP\N. PAPPAS  
IPARM FILE NAME: 02c084\_lay\_16

PLOT DATE: 06-JAN-2009  
DRAWN BY: B. KIPP\N. PAPPAS  
CHECKED BY: N. PAPPAS  
SHEET 29 OF 68



TEMPORARY 4" YELLOW LINE, PAINT  
STA 182+00 TO STA 189+50, SOLID LT & RT  
4" YELLOW LINE, PAINT  
STA 182+00 TO STA 189+50, SOLID LT & RT  
STEEL BEAM GUARDRAIL, GALVANIZED  
STA 182+00 TO STA 182+46 LT  
STA 182+91 TO STA 189+50 LT  
ANCHOR FOR STEEL BEAM RAIL  
STA 182+46 LT  
STA 182+91 LT  
DELINEATOR WITH STEEL POSTS  
STA 182+46 LT  
STA 182+91 LT

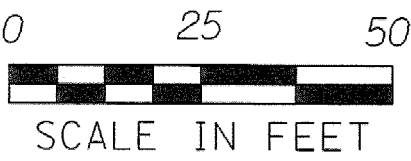


LEGEND

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

NOTES:

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



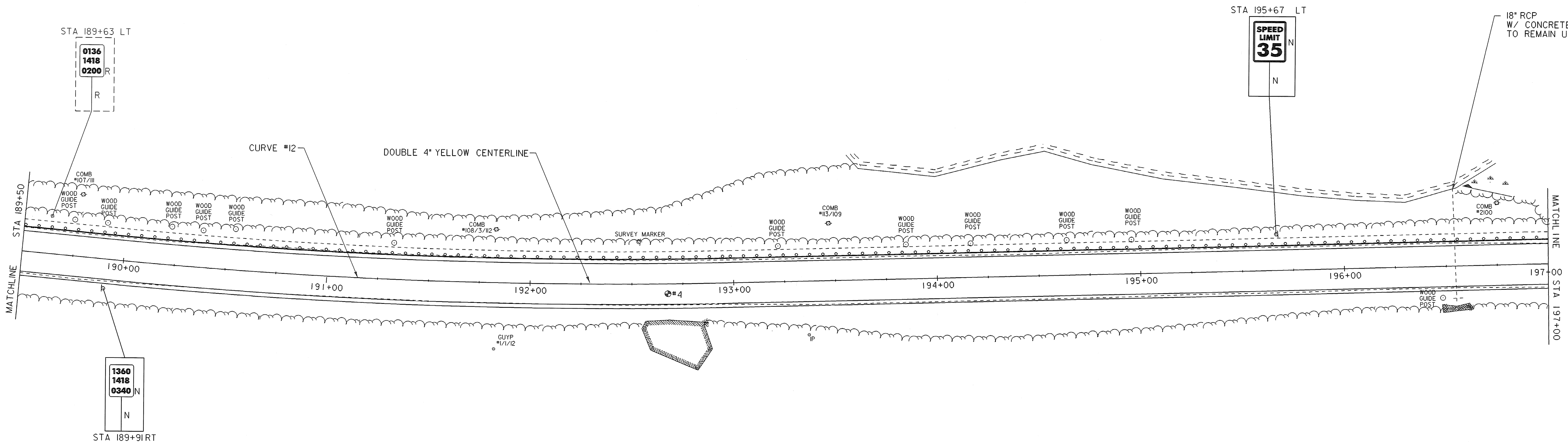
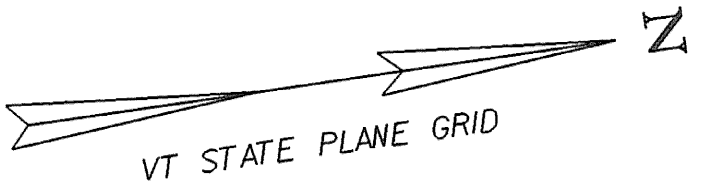
| PAVEMENT CORES |             |            |          |
|----------------|-------------|------------|----------|
| NUMBER         | TOTAL DEPTH | SOLID CORE | COMMENTS |
| 7              | 3 3/4'      | YES        | NO       |

LAYOUT SHEET #17

|                                        |                             |
|----------------------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD                 |
| PROJECT NUMBER:                        | STP 0136(1)                 |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 06-JAN-2009      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_17         | SHEET 30 OF 68              |



TEMPORARY 4" YELLOW LINE, PAINT  
STA 189+50 TO STA 197+00, SOLID LT & RT  
4" YELLOW LINE, PAINT  
STA 189+50 TO STA 197+00, SOLID LT & RT  
REMOVING SIGNS  
STA 189+63 LT  
STEEL BEAM GUARDRAIL, GALVANIZED  
STA 189+50 TO STA 197+00 LT



LEGEND

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

NOTES:

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.

0 25 50  
SCALE IN FEET

PAVEMENT CORES

| NUMBER | TOTAL DEPTH | SOLID CORE | COMMENTS |
|--------|-------------|------------|----------|
| 4      | 5 1/2"      | YES        | NO       |

LAYOUT SHEET #18

PROJECT NAME: SPRINGFIELD  
PROJECT NUMBER: STP 0136(I)

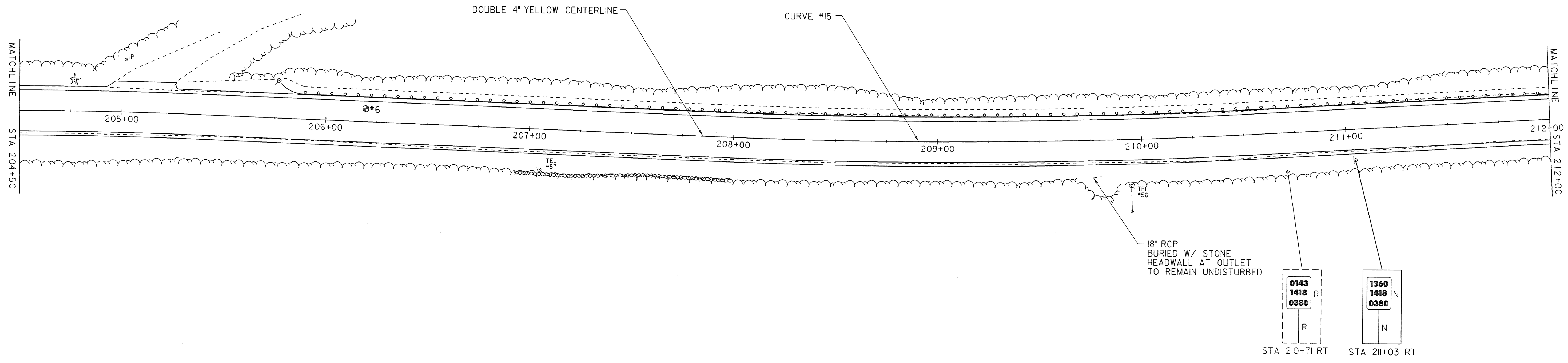
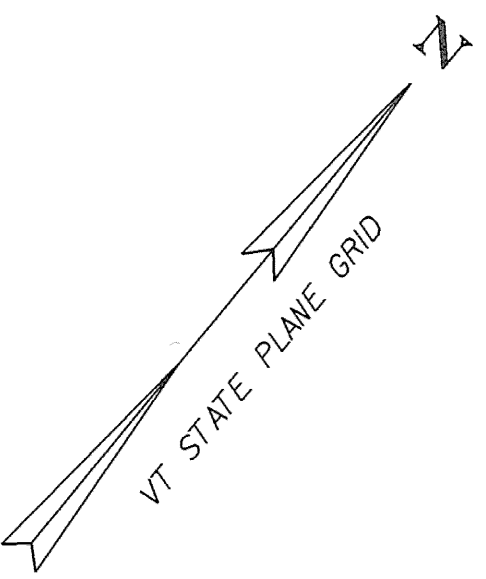
FILE NAME: ...02C084\...02C084\_hul.dgn PLOT DATE: 06-JAN-2009  
PROJECT LEADER: K. UPMAL DRAWN BY: B. KIPP\N. PAPPAS  
DESIGNED BY: B. KIPP\N. PAPPAS CHECKED BY: N. PAPPAS  
IPARM FILE NAME: 02c084\_lay\_18 SHEET 31 OF 68



|                                        |                             |  |
|----------------------------------------|-----------------------------|--|
| PROJECT NAME:                          | SPRINGFIELD                 |  |
| PROJECT NUMBER:                        | STP 0136(I)                 |  |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 06-JAN-2009      |  |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N, PAPPAS |  |
| DESIGNED BY: B. KIPP\N, PAPPAS         | CHECKED BY: N. PAPPAS       |  |
| IPARM FILE NAME: 02c084_lay_19         | SHEET 32 OF 68              |  |

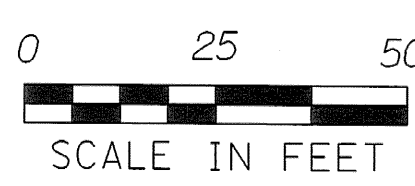


TEMPORARY 4" YELLOW LINE, PAINT  
STA 204+50 TO STA 212+00, SOLID LT & RT  
4" YELLOW LINE, PAINT  
STA 204+50 TO STA 212+00, SOLID LT & RT  
REMOVING SIGNS  
STA 210+71 RT  
STEEL BEAM GUARDRAIL, GALVANIZED  
STA 205+78 TO STA 212+00 LT  
ANCHOR FOR STEEL BEAM RAIL  
STA 205+92 LT  
DELINEATOR WITH STEEL POSTS  
STA 205+92 LT



| LEGEND |                    |
|--------|--------------------|
| R      | = REMOVE EXISTING  |
| S      | = SALVAGE          |
| R&S    | = REMOVE & SALVAGE |
| N      | = NEW              |
| RET    | = RETAIN           |
| B-B    | = BACK TO BACK     |

- NOTES:
- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
  - SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
  - WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.

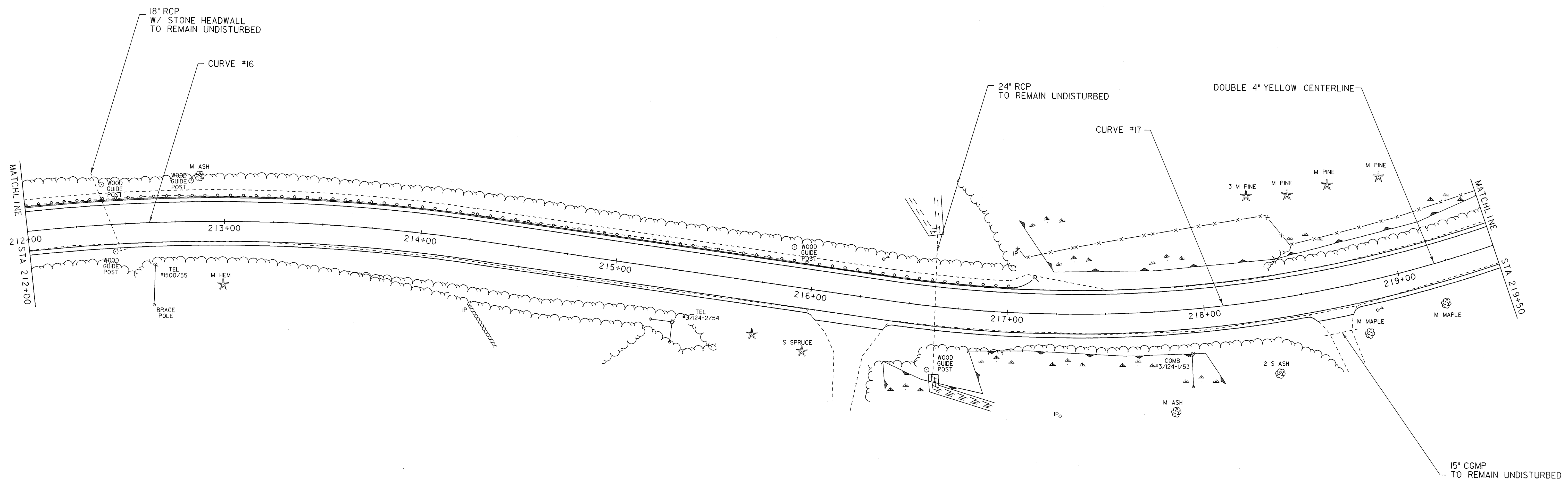
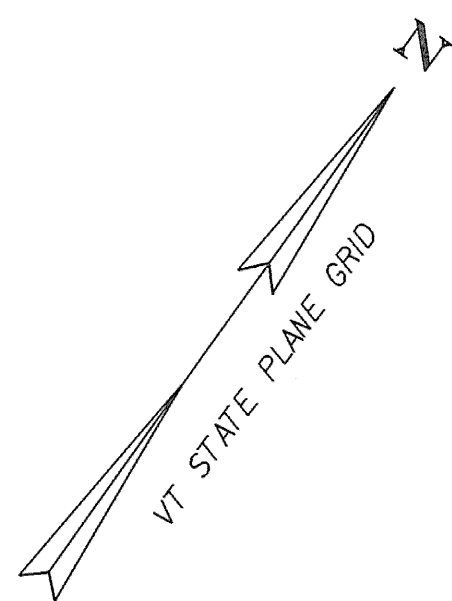


| PAVEMENT CORES |             |            |          |
|----------------|-------------|------------|----------|
| NUMBER         | TOTAL DEPTH | SOLID CORE | COMMENTS |
| 6              | 5'          | YES        | NO       |

| LAYOUT SHEET #20                       |                             |
|----------------------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD                 |
| PROJECT NUMBER:                        | STP 0136(1)                 |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 06-JAN-2009      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_20         | SHEET 33 OF 68              |

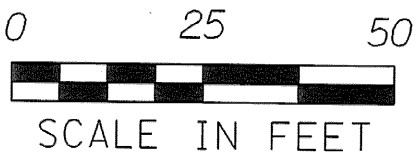


TEMPORARY 4" YELLOW LINE, PAINT  
STA 212+00 TO STA 219+50, SOLID LT & RT  
4" YELLOW LINE, PAINT  
STA 212+00 TO STA 219+50, SOLID LT & RT  
STEEL BEAM GUARDRAIL, GALVANIZED  
STA 212+00 TO STA 217+13 LT  
ANCHOR FOR STEEL BEAM RAIL  
STA 217+13 LT  
DELINEATOR WITH STEEL POSTS  
STA 217+13 LT



| LEGEND |                    |
|--------|--------------------|
| R      | = REMOVE EXISTING  |
| S      | = SALVAGE          |
| R&S    | = REMOVE & SALVAGE |
| N      | = NEW              |
| RET    | = RETAIN           |
| B-B    | = BACK TO BACK     |

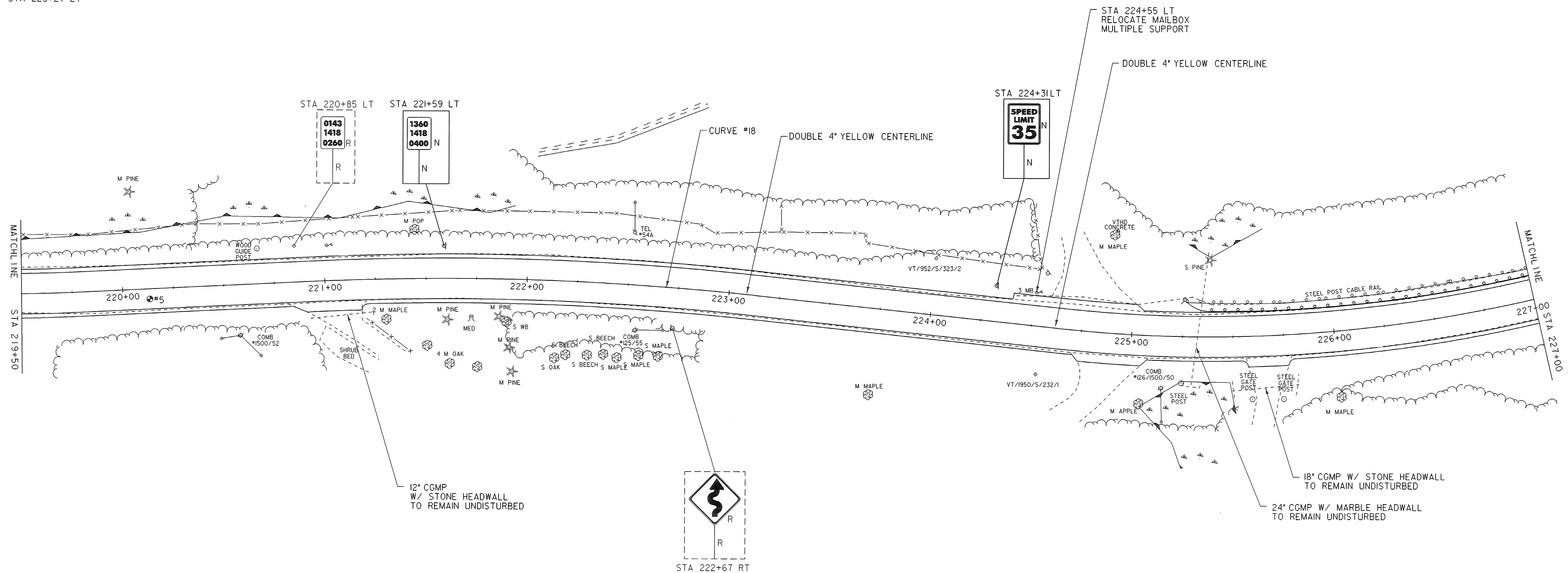
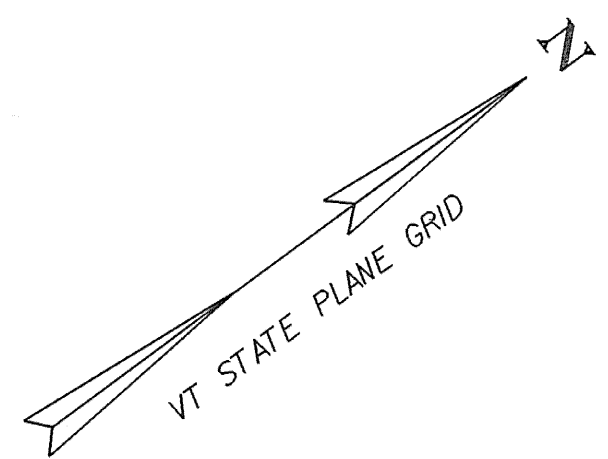
- NOTES:
- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
  - SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
  - WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



| LAYOUT SHEET #21                       |                             |
|----------------------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD                 |
| PROJECT NUMBER:                        | STP 0136(I)                 |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 06-JAN-2009      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_21         | SHEET 34 OF 68              |

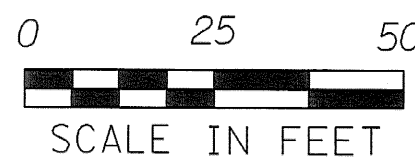


TEMPORARY 4" YELLOW LINE, PAINT  
STA 219+50 TO STA 227+00, SOLID LT & RT  
4" YELLOW LINE  
STA 219+50 TO STA 227+00, SOLID LT & RT  
REMOVING SIGNS  
STA 220+85 LT  
STA 222+67 RT  
REMOVAL AND DISPOSAL OF GUARDRAIL  
STA 225+26 TO STA 227+00 LT  
STEEL BEAM GUARDRAIL, GALVANIZED  
STA 225+27 TO STA 227+00 LT  
TIMBER TREATED CURB  
STA 225+40 TO STA 227+00 LT  
RELOCATE MAILBOX, MULTIPLE SUPPORT  
STA 224+55 LT  
DELINEATOR WITH STEEL POSTS  
STA 225+27 LT  
ANCHOR FOR STEEL BEAM RAIL  
STA 225+27 LT



| LEGEND |                    |
|--------|--------------------|
| R      | = REMOVE EXISTING  |
| S      | = SALVAGE          |
| R&S    | = REMOVE & SALVAGE |
| N      | = NEW              |
| RET    | = RETAIN           |
| B-B    | = BACK TO BACK     |

- NOTES:
- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
  - SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
  - WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



| PAVEMENT CORES |             |            |                             |
|----------------|-------------|------------|-----------------------------|
| NUMBER         | TOTAL DEPTH | SOLID CORE | COMMENTS                    |
| 5              | 4"          | TOP 2 3/4" | RECOVERED 2 3/4" SOLID CORE |

LAYOUT SHEET #22

|                                        |                             |
|----------------------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD                 |
| PROJECT NUMBER:                        | STP 0136(1)                 |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPPAN, PAPPAS |
| DESIGNED BY: B. KIPPAN, PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084.lay_22         | SHEET 35 OF 68              |



TEMPORARY 4" YELLOW LINE, PAINT  
STA 227+00 TO STA 234+50, SOLID LT & RT

4" YELLOW LINE  
STA 227+00 TO STA 234+50, SOLID LT & RT

REMOVING SIGNS  
STA 231+47 RT

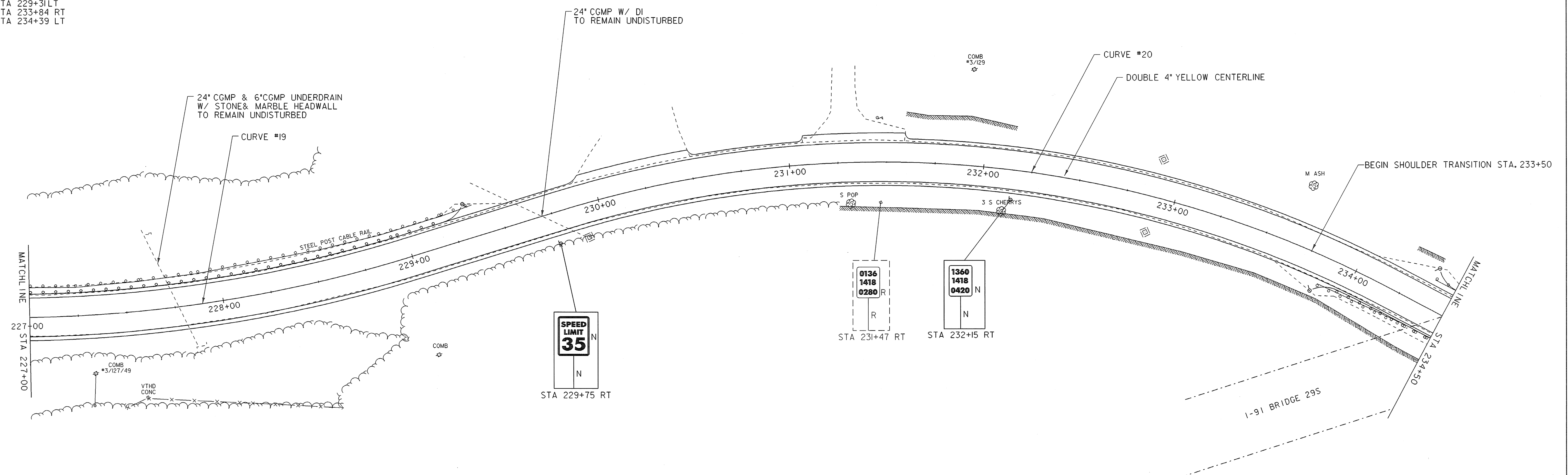
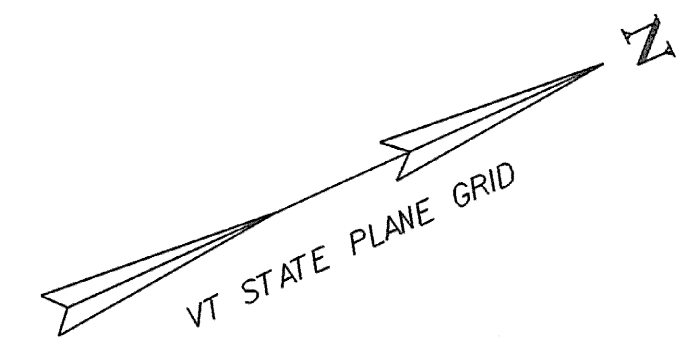
REMOVAL AND DISPOSAL OF GUARDRAIL  
STA 227+00 TO STA 229+37 LT  
STA 233+85 TO STA 234+50 RT  
STA 234+42 TO STA 234+50 LT

STEEL BEAM GUARDRAIL, GALVANIZED  
STA 227+00 TO STA 229+37 LT  
STA 233+84 TO STA 234+50 RT  
STA 234+39 TO STA 234+50 LT

TIMBER TREATED CURB  
STA 227+00 TO STA 229+20 LT

DELINEATOR WITH STEEL POSTS  
STA 229+37 LT  
STA 233+84 RT  
STA 234+39 LT

ANCHOR FOR STEEL BEAM RAIL  
STA 229+37 LT  
STA 233+84 RT  
STA 234+39 LT



#### LEGEND

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

#### NOTES:

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.

0 25 50  
SCALE IN FEET

#### LAYOUT SHEET #23

PROJECT NAME: SPRINGFIELD  
PROJECT NUMBER: STP 0136(1)

FILE NAME: ...02C084...02C084\_nul.dgn PLOT DATE: 30-DEC-2008  
PROJECT LEADER: K. UPMAL DRAWN BY: B. KIPP\N. PAPPAS  
DESIGNED BY: B. KIPP\N. PAPPAS CHECKED BY: N. PAPPAS  
IPARM FILE NAME: 02c084\_lay\_23 SHEET 36 OF 68



TEMPORARY 4" YELLOW LINE, PAINT  
STA 234+50 TO STA 242+00, SOLID LT & RT

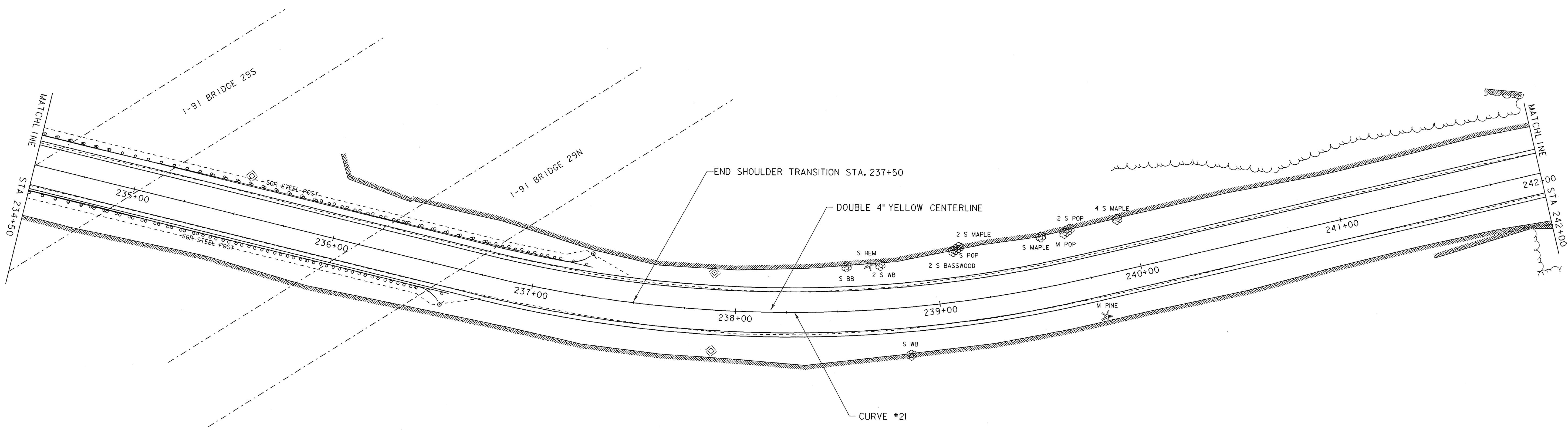
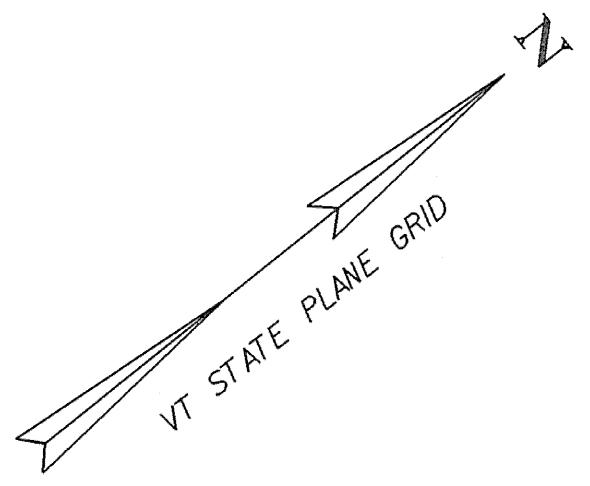
4" YELLOW LINE  
STA 234+50 TO STA 242+00, SOLID LT & RT

REMOVAL AND DISPOSAL OF GUARDRAIL  
STA 234+50 TO STA 237+28 LT  
STA 234+50 TO STA 236+61 RT

STEEL BEAM GUARDRAIL, GALVANIZED  
STA 234+50 TO STA 236+57 RT  
STA 234+50 TO STA 237+26 LT

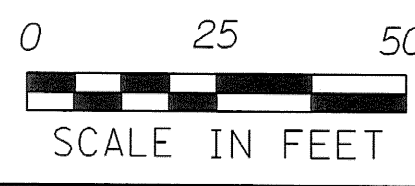
DELINEATOR WITH STEEL POSTS  
STA 236+57 RT  
STA 237+26 LT

ANCHOR FOR STEEL BEAM RAIL  
STA 236+57 RT  
STA 237+26 LT



| LEGEND |                    |
|--------|--------------------|
| R      | = REMOVE EXISTING  |
| S      | = SALVAGE          |
| R&S    | = REMOVE & SALVAGE |
| N      | = NEW              |
| RET    | = RETAIN           |
| B-B    | = BACK TO BACK     |

- NOTES:
- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
  - SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
  - WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



LAYOUT SHEET #24

|                 |             |                                        |                             |
|-----------------|-------------|----------------------------------------|-----------------------------|
| PROJECT NAME:   | SPRINGFIELD | FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT NUMBER: | STP 0136(1) | PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
|                 |             | DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
|                 |             | IPARM FILE NAME: 02c084_lay_24         | SHEET 37 OF 68              |



TEMPORARY 4' YELLOW LINE, PAINT  
STA 242+00 TO STA 249+50, SOLID LT & RT

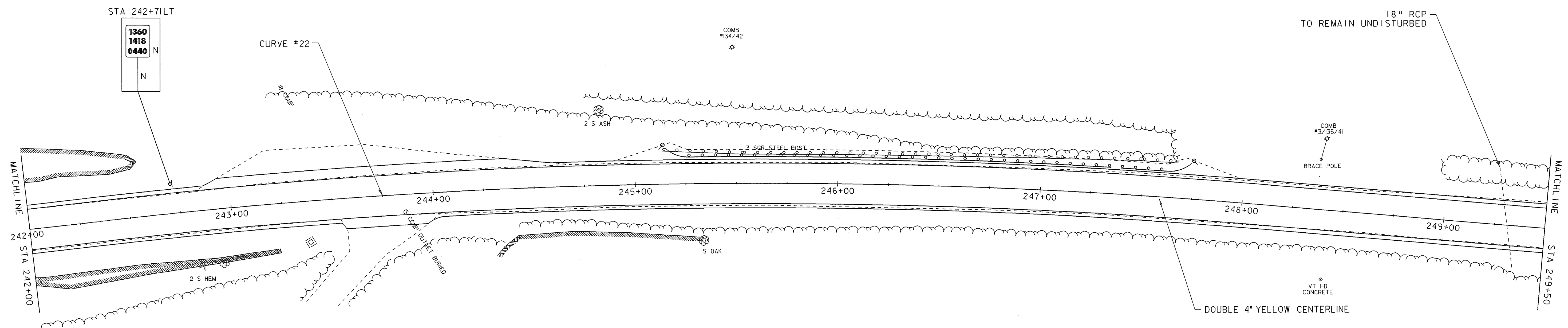
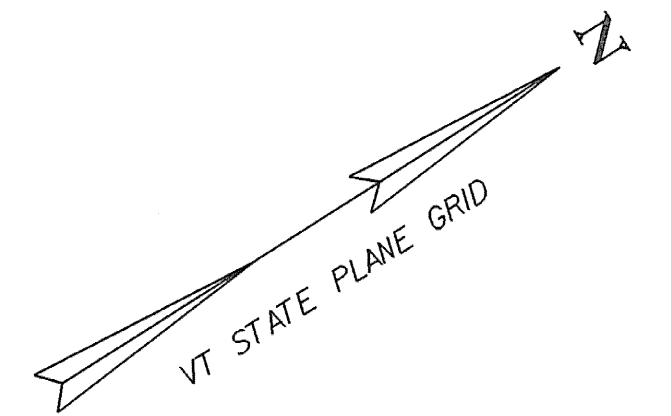
4' YELLOW LINE  
STA 242+00 TO STA 249+50, SOLID LT & RT

REMOVAL AND DISPOSAL OF GUARDRAIL  
STA 245+14 TO STA 247+68 LT

STEEL BEAM GUARDRAIL, GALVANIZED  
STA 245+15 TO STA 247+67 LT

DELINEATOR WITH STEEL POSTS  
STA 245+15 LT  
STA 247+67 LT

ANCHOR FOR STEEL BEAM RAIL  
STA 245+15 LT  
STA 247+67 LT



**LEGEND**  
R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

**NOTES:**

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.

0 25 50  
SCALE IN FEET

**LAYOUT SHEET #25**

|                  |                             |              |                   |
|------------------|-----------------------------|--------------|-------------------|
| PROJECT NAME:    | SPRINGFIELD                 | PLOT DATE:   | 30-DEC-2008       |
| PROJECT NUMBER:  | STP 0136(I)                 | DRAWN BY:    | B. KIPP\N. PAPPAS |
| FILE NAME:       | ...02C084\...02C084_nul.dgn | DESIGNED BY: | B. KIPP\N. PAPPAS |
| PROJECT LEADER:  | K. UPMAL                    | CHECKED BY:  | N. PAPPAS         |
| IPARM FILE NAME: | 02c084_lay_25               | SHEET        | 38 OF 68          |

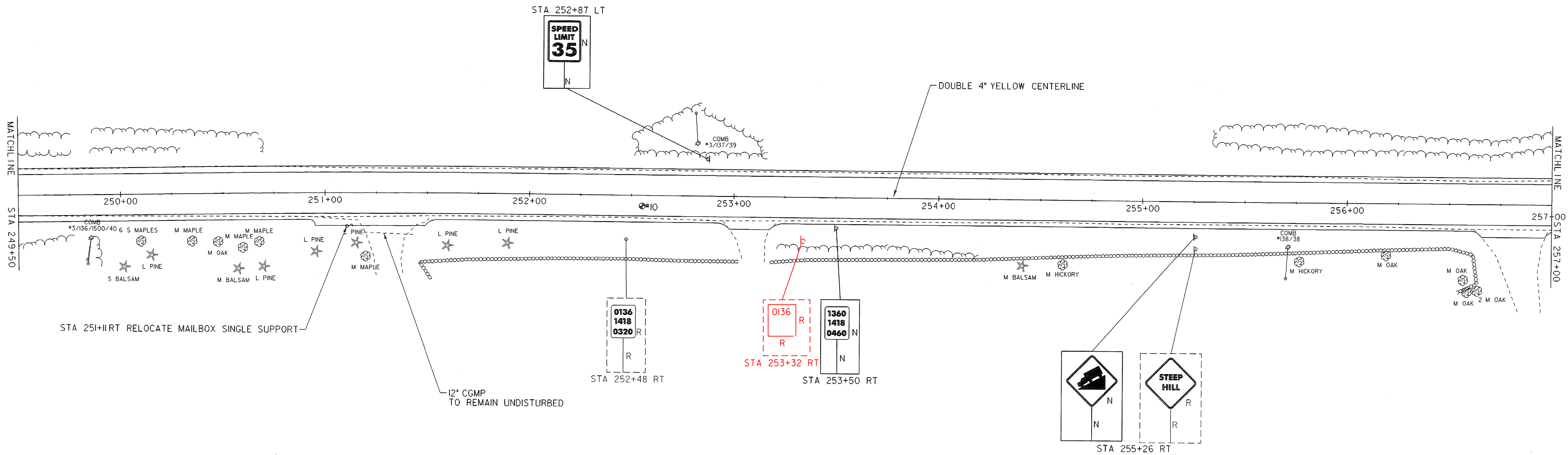
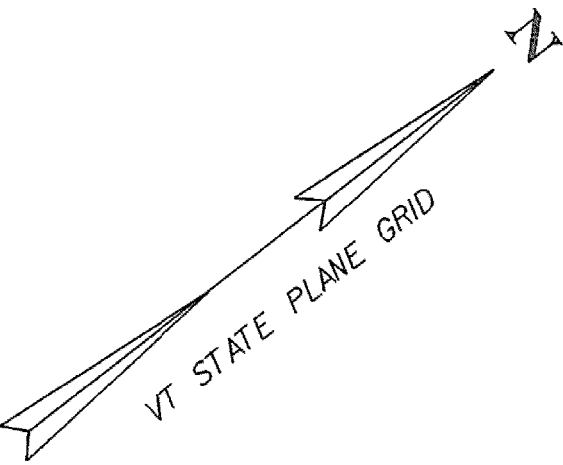


TEMPORARY 4" YELLOW LINE, PAINT  
STA 249+50 TO STA 257+00, SOLID LT & RT

4" YELLOW LINE  
STA 249+50 TO STA 257+00, SOLID LT & RT

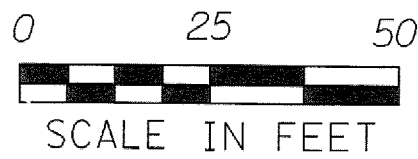
REMOVING SIGNS  
STA 252+48 RT  
STA 255+26 RT

RELOCATE MAILBOX, SINGLE SUPPORT  
STA 251+11RT



| LEGEND |                    |
|--------|--------------------|
| R      | = REMOVE EXISTING  |
| S      | = SALVAGE          |
| R&S    | = REMOVE & SALVAGE |
| N      | = NEW              |
| RET    | = RETAIN           |
| B-B    | = BACK TO BACK     |

- NOTES:
- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
  - SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
  - WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.

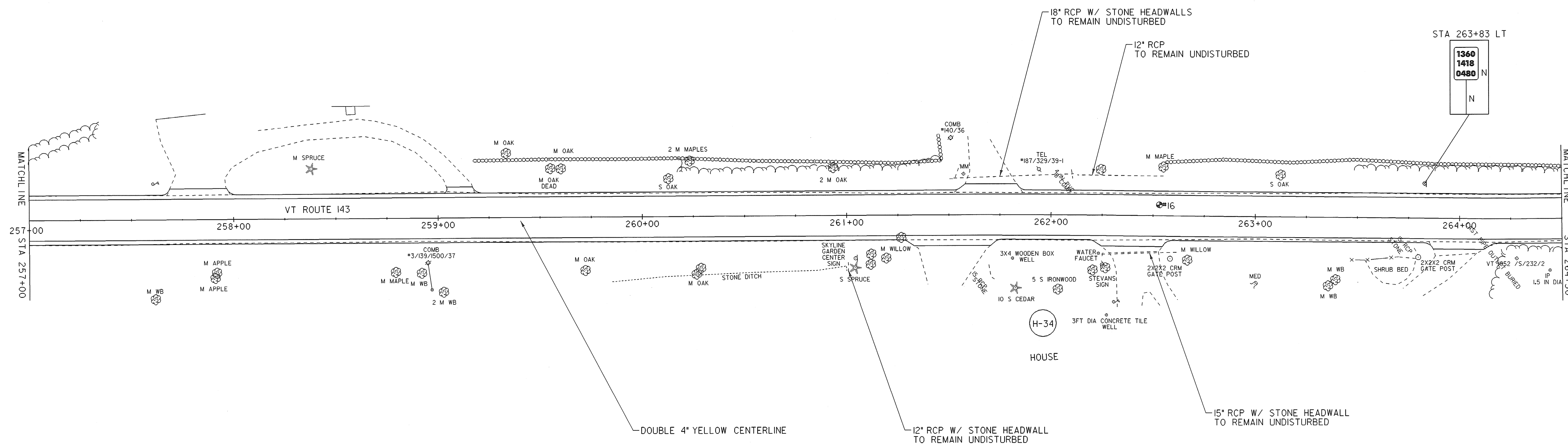
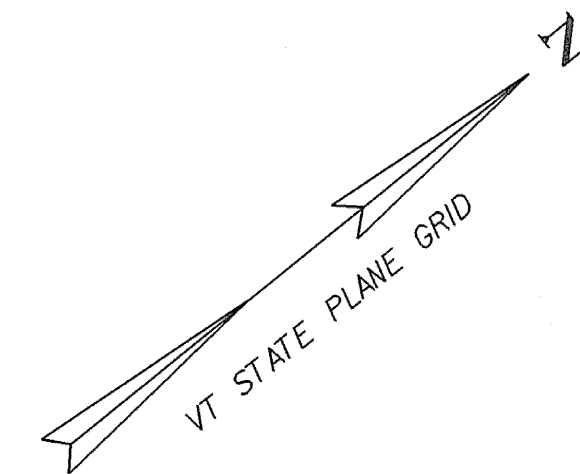


| PAVEMENT CORES |             |            |          |
|----------------|-------------|------------|----------|
| NUMBER         | TOTAL DEPTH | SOLID CORE | COMMENTS |
| 10             | 4'          | YES        | NO       |

| LAYOUT SHEET #26                       |                             |
|----------------------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD                 |
| PROJECT NUMBER:                        | STP 0136(1)                 |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N, PAPPAS |
| DESIGNED BY: B. KIPP\N, PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_26         | SHEET 39 OF 68              |



TEMPORARY 4" YELLOW LINE, PAINT  
STA 257+00 TO STA 264+50, SOLID LT & RT  
4" YELLOW LINE  
STA 257+00 TO STA 264+50, SOLID LT & RT



**LEGEND**  
R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

**NOTES:**

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.

0 25 50  
SCALE IN FEET

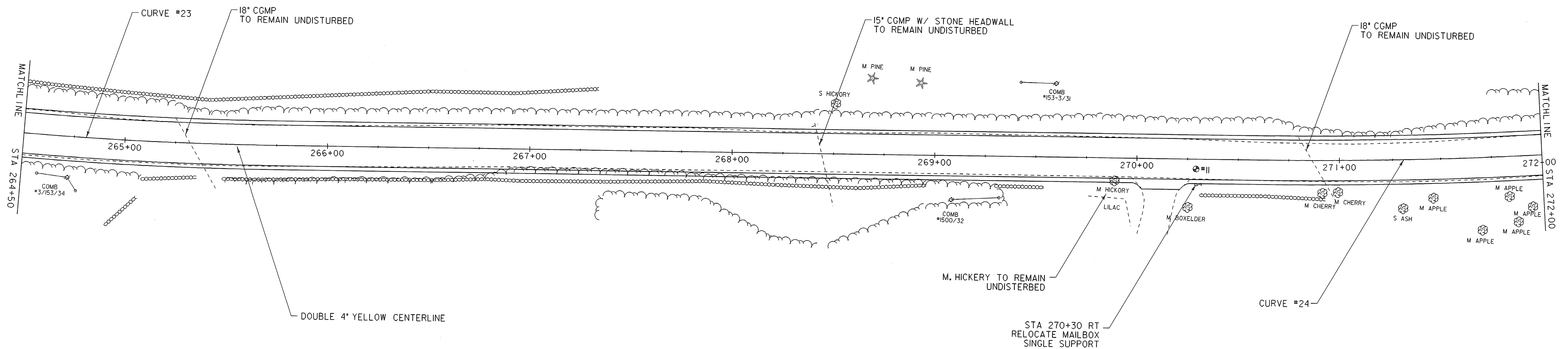
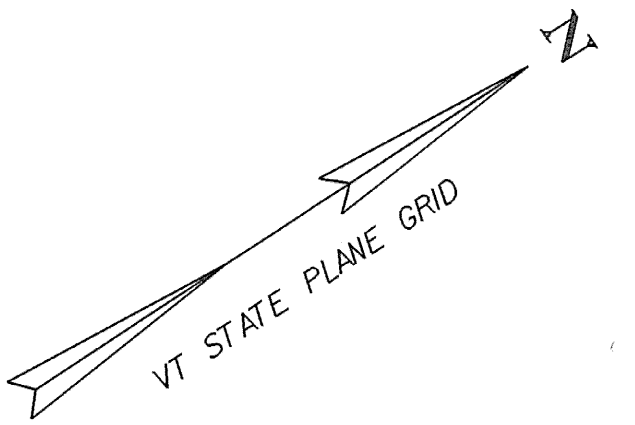
| PAVEMENT CORES |             |            |          |
|----------------|-------------|------------|----------|
| NUMBER         | TOTAL DEPTH | SOLID CORE | COMMENTS |
| 16             | 6 1/2"      | TOP 4 1/2" | NO       |

**LAYOUT SHEET #27**

|                                        |                             |
|----------------------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD                 |
| PROJECT NUMBER:                        | STP 0136(I)                 |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_27         | SHEET 40 OF 68              |



TEMPORARY 4" YELLOW LINE, PAINT  
STA 264+50 TO STA 272+00, SOLID LT & RT  
4" YELLOW LINE  
STA 264+50 TO STA 272+00, SOLID LT & RT  
RELOCATE MAILBOX, SINGLE SUPPORT  
STA 270+30 RT

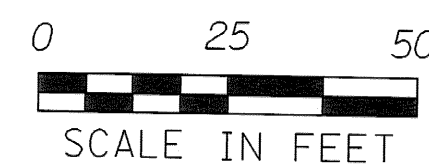


LEGEND

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

NOTES:

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



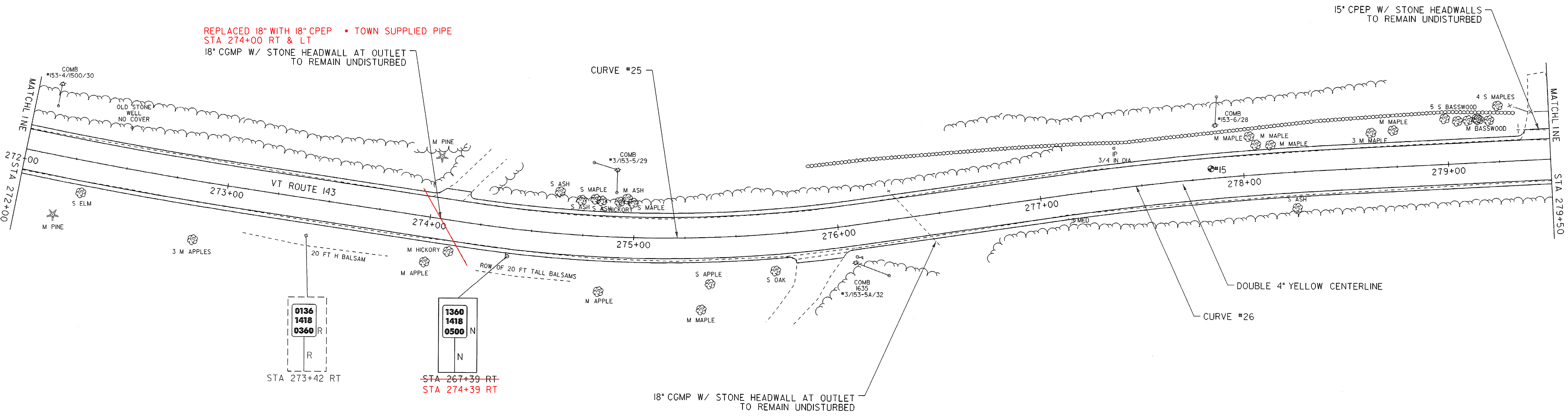
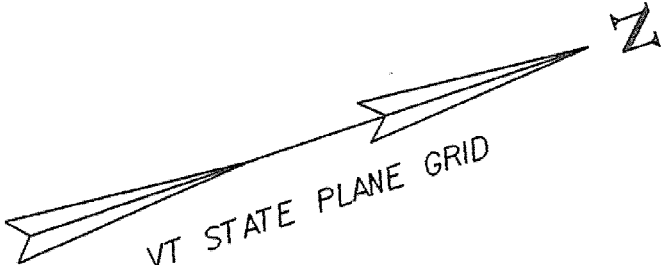
| PAVEMENT CORES |             |            |          |
|----------------|-------------|------------|----------|
| NUMBER         | TOTAL DEPTH | SOLID CORE | COMMENTS |
| II             | 5'          | YES        | NO       |

LAYOUT SHEET #28

|                                        |                             |
|----------------------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD                 |
| PROJECT NUMBER:                        | STP 0136(1)                 |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_28         | SHEET 41 OF 68              |



TEMPORARY 4" YELLOW LINE, PAINT  
STA 272+00 TO STA 279+50, SOLID LT & RT  
4" YELLOW LINE  
STA 272+00 TO STA 279+50, SOLID LT & RT  
REMOVING SIGNS  
STA 273+42 RT

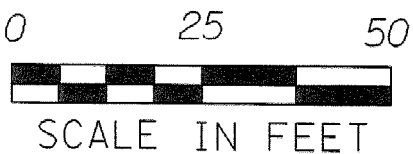


LEGEND

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

NOTES:

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



PAVEMENT CORES

| TOTAL DEPTH | SOLID CORE | COMMENTS        |
|-------------|------------|-----------------|
| 5 3/8"      | YES        | AT CULVERT, 15' |

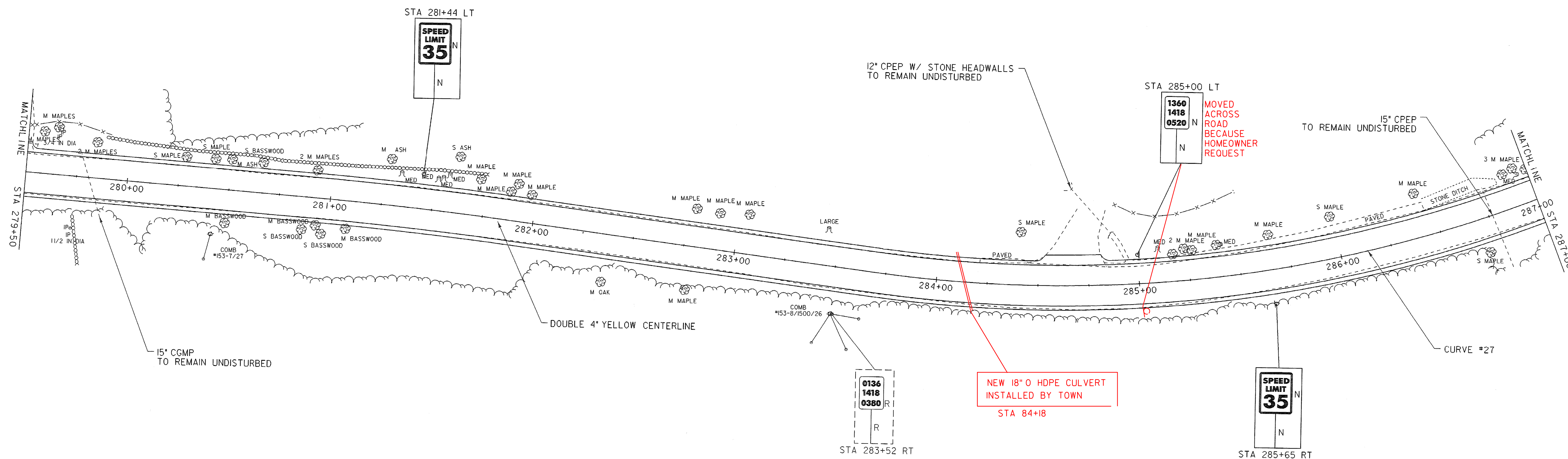
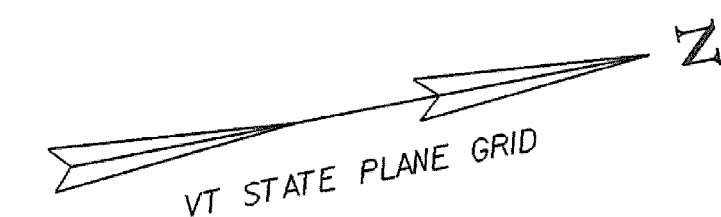
LAYOUT SHEET #29

PROJECT NAME: SPRINGFIELD  
PROJECT NUMBER: STP 0136(1)

FILE NAME: ...02C084\...02C084\_nul.dgn PLOT DATE: 30-DEC-2008  
PROJECT LEADER: K. UPMAL DRAWN BY: B. KIPP\N. PAPPAS  
DESIGNED BY: B. KIPP\N. PAPPAS CHECKED BY: N. PAPPAS  
IPARM FILE NAME: 02c084\_lay\_29 SHEET 42 OF 68



TEMPORARY 4" YELLOW LINE, PAINT  
STA 279+50 TO STA 287+00, SOLID LT & RT  
4" YELLOW LINE  
STA 279+50 TO STA 287+00, SOLID LT & RT  
REMOVING SIGNS  
STA 283+52 RT



#### LEGEND

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

#### NOTES:

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.

0 25 50  
SCALE IN FEET

#### LAYOUT SHEET #30

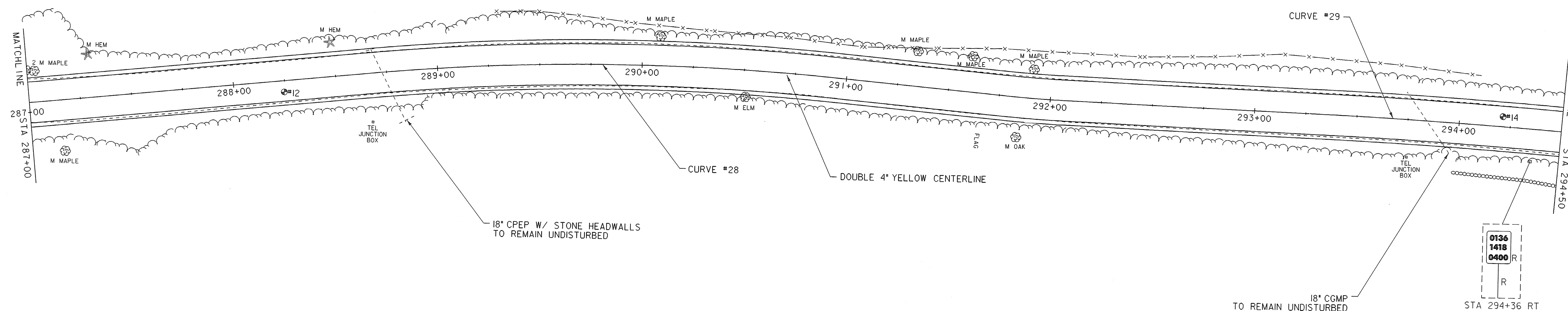
|                                       |                             |
|---------------------------------------|-----------------------------|
| PROJECT NAME:                         | SPRINGFIELD                 |
| PROJECT NUMBER:                       | STP 0136(1)                 |
| FILE NAME: ...02C084...02C084_nul.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT LEADER: K. UPMAL              | DRAWN BY: B. KIPPAN, PAPPAS |
| DESIGNED BY: B. KIPPAN, PAPPAS        | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_30        | SHEET 43 OF 68              |



TEMPORARY 4" YELLOW LINE, PAINT  
STA 287+00 TO STA 294+50, SOLID LT & RT

4" YELLOW LINE  
STA 287+00 TO STA 294+50, SOLID LT & RT

REMOVING SIGNS  
STA 294+36 RT



LEGEND

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

NOTES:

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.

0 25 50  
SCALE IN FEET

PAVEMENT CORES

| NUMBER | TOTAL DEPTH | SOLID CORE | COMMENTS |
|--------|-------------|------------|----------|
| 12     | 8 1/2"      | YES        | NO       |
| 14     | 7 1/2"      | YES        | NO       |

LAYOUT SHEET #31

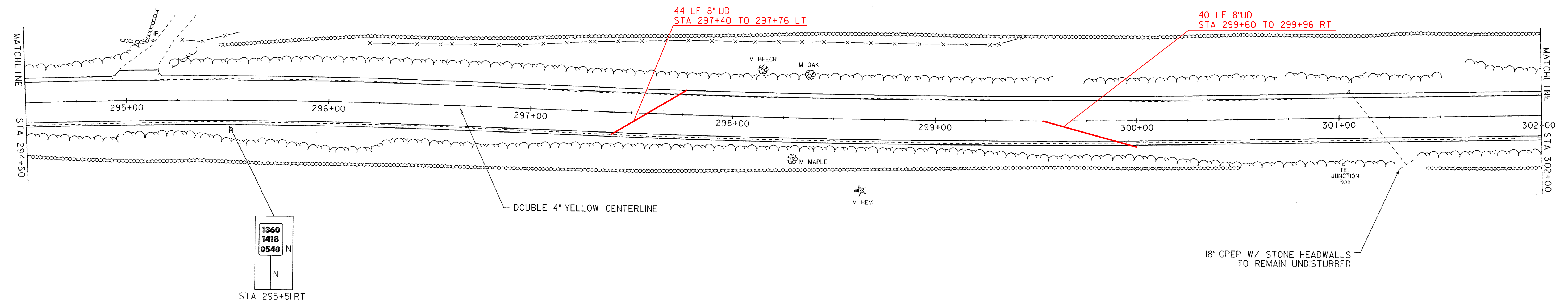
PROJECT NAME: SPRINGFIELD  
PROJECT NUMBER: STP 0136(1)

FILE NAME: ...02C084\...02C084\_nul.dgn PLOT DATE: 30-DEC-2008  
PROJECT LEADER: K. UPMAL DRAWN BY: B. KIPP\N. PAPPAS  
DESIGNED BY: B. KIPP\N. PAPPAS CHECKED BY: N. PAPPAS  
IPARM FILE NAME: 02c084\_lay\_31 SHEET 44 OF 68



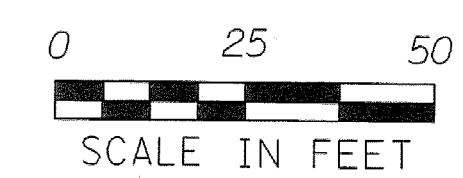
TEMPORARY 4" YELLOW LINE, PAINT  
STA 294+50 TO STA 302+00, SOLID LT & RT

4" YELLOW LINE  
STA 294+50 TO STA 302+00, SOLID LT & RT



| LEGEND |                    |
|--------|--------------------|
| R      | = REMOVE EXISTING  |
| S      | = SALVAGE          |
| R&S    | = REMOVE & SALVAGE |
| N      | = NEW              |
| RET    | = RETAIN           |
| B-B    | = BACK TO BACK     |

- NOTES:
- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
  - SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
  - WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.



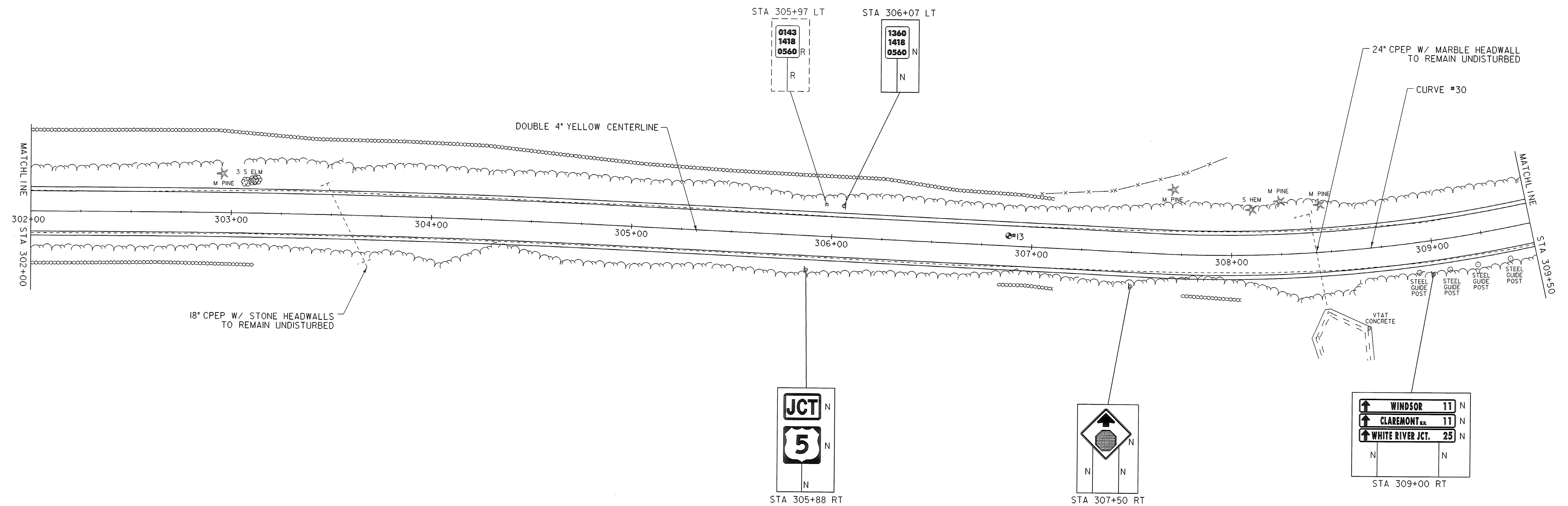
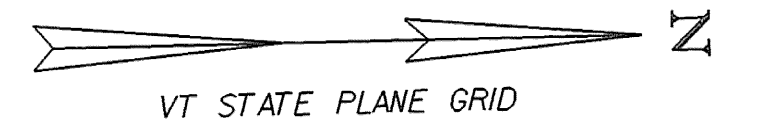
| LAYOUT SHEET #32                       |                             |  |  |
|----------------------------------------|-----------------------------|--|--|
| PROJECT NAME:                          | SPRINGFIELD                 |  |  |
| PROJECT NUMBER:                        | STP 0136(1)                 |  |  |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 30-DEC-2008      |  |  |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPPAN, PAPPAS |  |  |
| DESIGNED BY: B. KIPPAN, PAPPAS         | CHECKED BY: N. PAPPAS       |  |  |
| IPARM, FILE NAME: 02c084_lay_32        | SHEET 45 OF 68              |  |  |



TEMPORARY 4" YELLOW LINE, PAINT  
STA 302+00 TO STA 309+50, SOLID LT & RT

4" YELLOW LINE  
STA 302+00 TO STA 309+50, SOLID LT & RT

REMOVING SIGNS  
STA 305+97 LT



LEGEND

R = REMOVE EXISTING  
S = SALVAGE  
R&S = REMOVE & SALVAGE  
N = NEW  
RET = RETAIN  
B-B = BACK TO BACK

NOTES:

- EXISTING SHOULDER MATERIAL ON TOWN HIGHWAYS SHALL BE EXCAVATED TO A DEPTH OF 3' OR AS DIRECTED BY THE RESIDENT ENGINEER. SEE GENERAL NOTE #6 SHEET 3 FOR MORE INFORMATION.
- SEE SHEET 5 & 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING FOR CULVERT AND UTILITY POLE DETAILS.
- WHITE LINES SHOWN ON PLANS IS FOR DISPLAY PURPOSES ONLY.

0 25 50  
SCALE IN FEET

| NUMBER | TOTAL DEPTH | SOLID CORE | COMMENTS |
|--------|-------------|------------|----------|
|        |             |            |          |
| 13     | 7'          | YES        | NO       |

LAYOUT SHEET #33

|                                        |                             |
|----------------------------------------|-----------------------------|
| PROJECT NAME:                          | SPRINGFIELD                 |
| PROJECT NUMBER:                        | STP 0136(I)                 |
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_33         | SHEET 46 OF 68              |

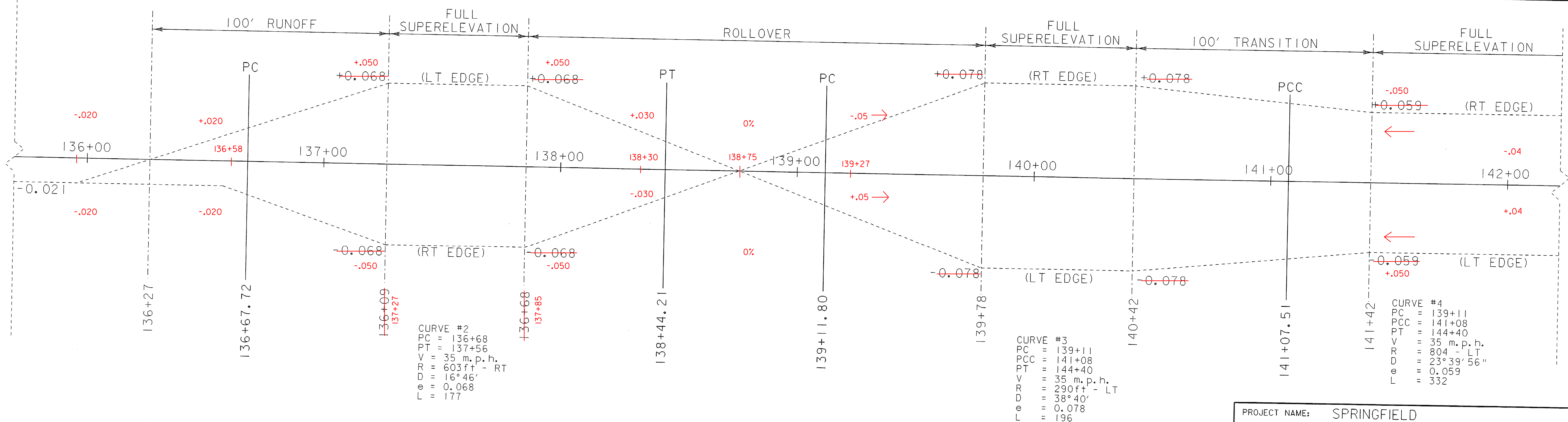
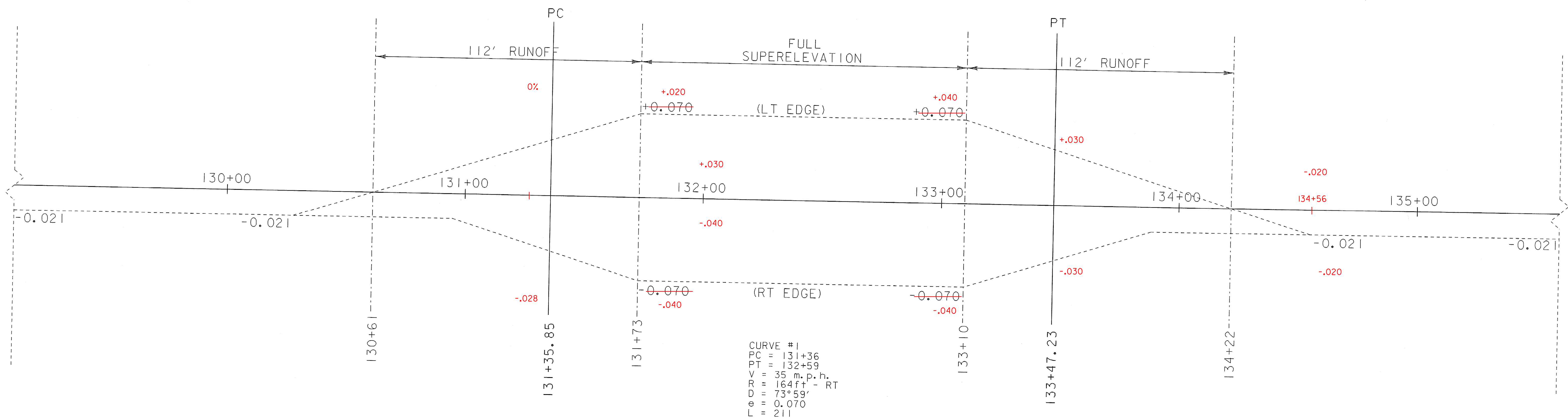


|            |    |        |
|------------|----|--------|
| STA 311+93 | RT | "STOP" |
| STA 312+06 | RT | "STOP" |



|                                        |                             |
|----------------------------------------|-----------------------------|
| FILE NAME: ...02C084\...02C084_nul.dgn | PLOT DATE: 30-DEC-2008      |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP\N. PAPPAS |
| DESIGNED BY: B. KIPP\N. PAPPAS         | CHECKED BY: N. PAPPAS       |
| IPARM FILE NAME: 02c084_lay_34         | SHEET 47 OF 68              |





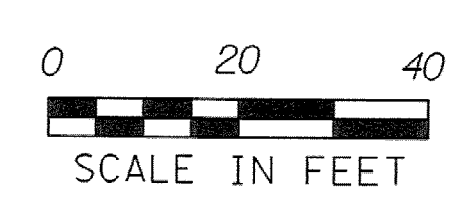
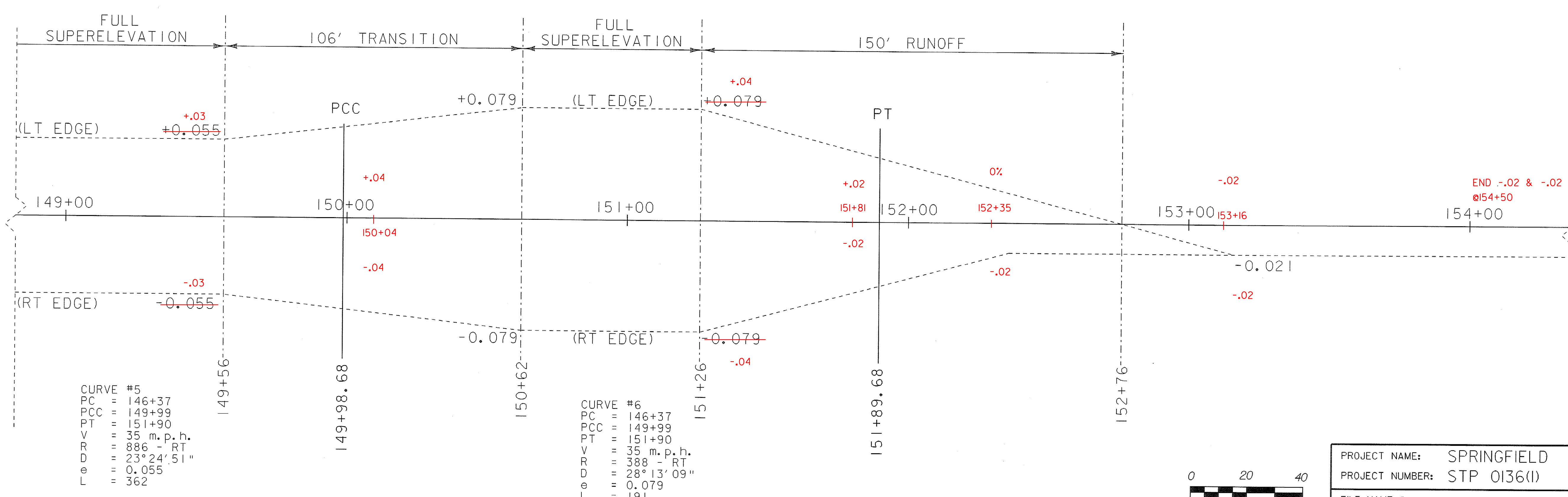
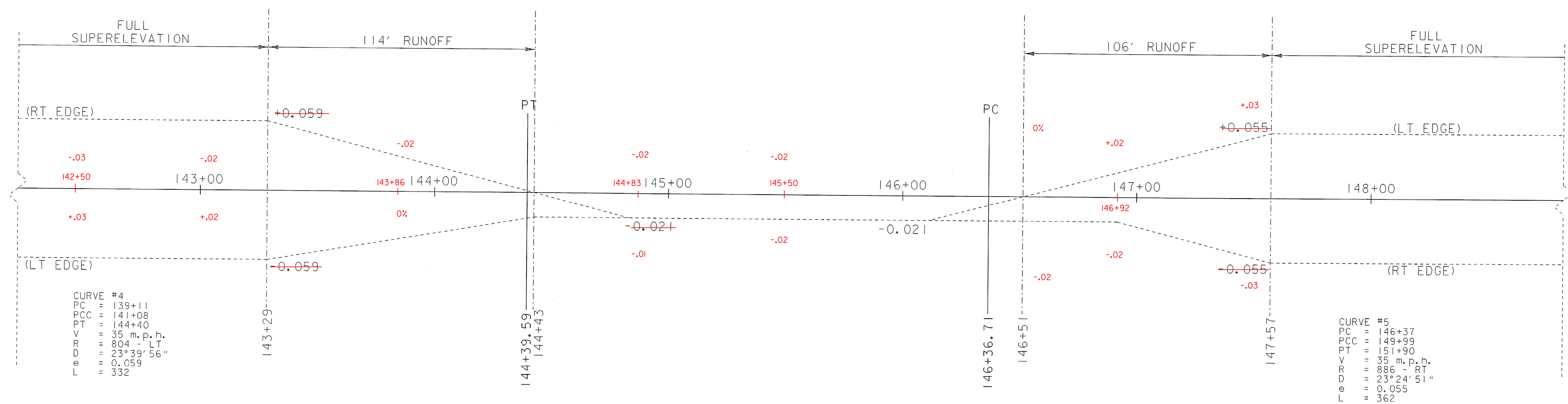
0 20 40  
 SCALE IN FEET

PROJECT NAME: SPRINGFIELD  
 PROJECT NUMBER: STP 0136(1)

FILE NAME: Bank.dgn  
 PROJECT LEADER: K. UPMAL  
 DESIGNED BY: B. KIPP  
 BANKING DIAGRAM 1

PLOT DATE: 30-DEC-2008  
 DRAWN BY: B. KIPP  
 CHECKED BY: N. PAPPAS  
 SHEET 48 OF 68



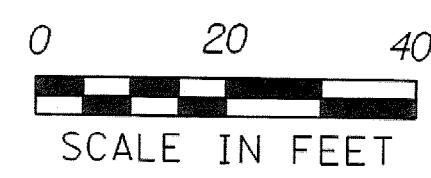
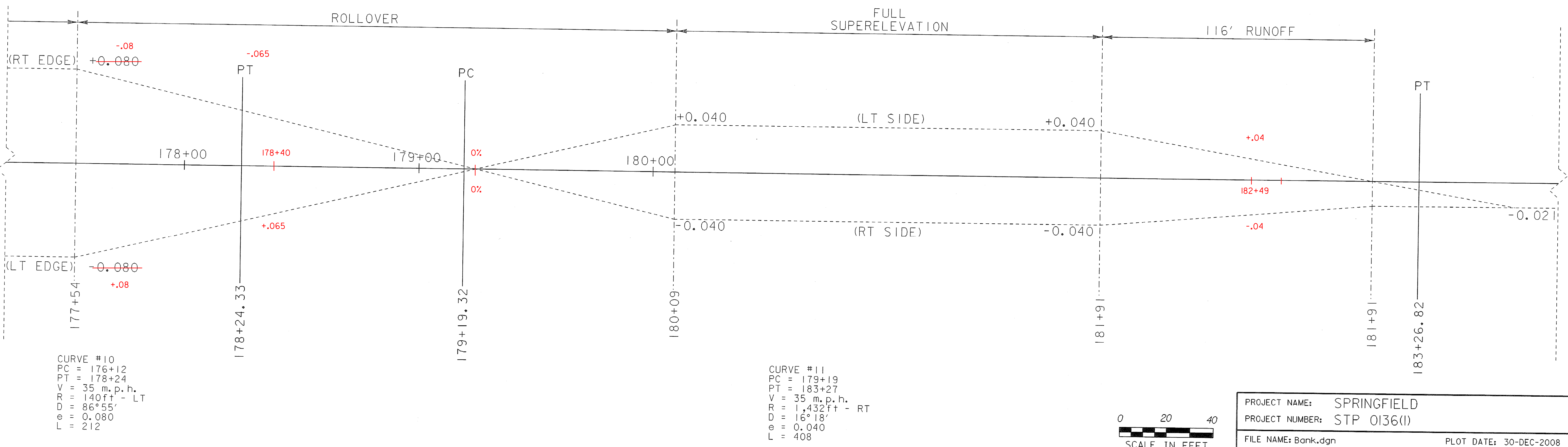
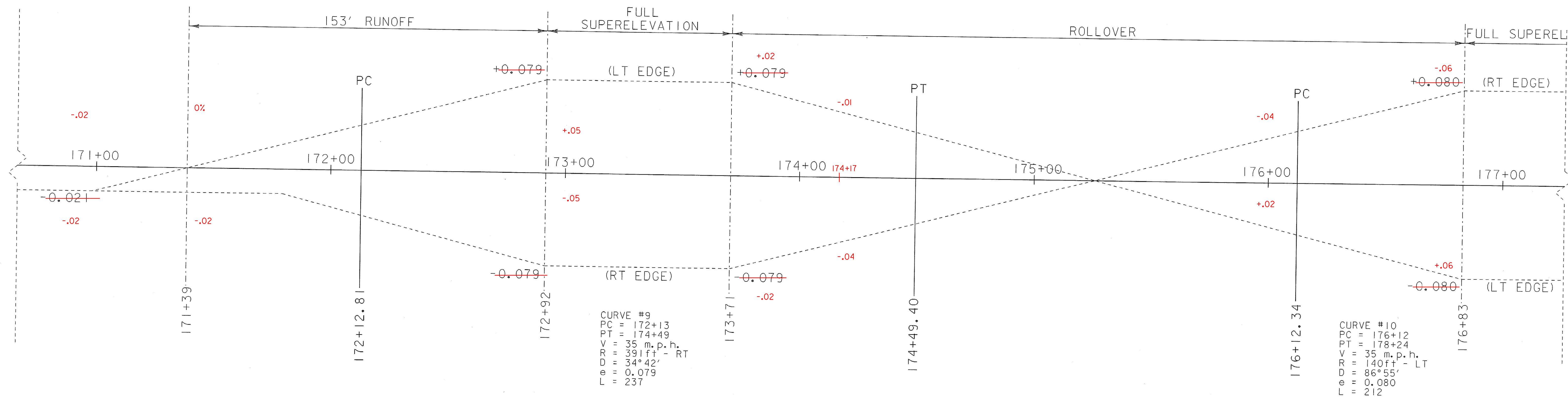


|                 |             |             |             |
|-----------------|-------------|-------------|-------------|
| PROJECT NAME:   | SPRINGFIELD | PLOT DATE:  | 30-DEC-2008 |
| PROJECT NUMBER: | STP 0136(1) | DRAWN BY:   | B. KIPP     |
| FILE NAME:      | Bank.dgn    | CHECKED BY: | N. PAPPAS   |
| PROJECT LEADER: | R. UPMAL    | SHEET       | 49 OF 68    |
| DESIGNED BY:    | B. KIPP     |             |             |
| BANKING DIAGRAM | 2           |             |             |



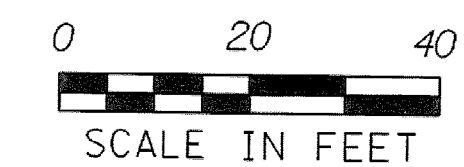
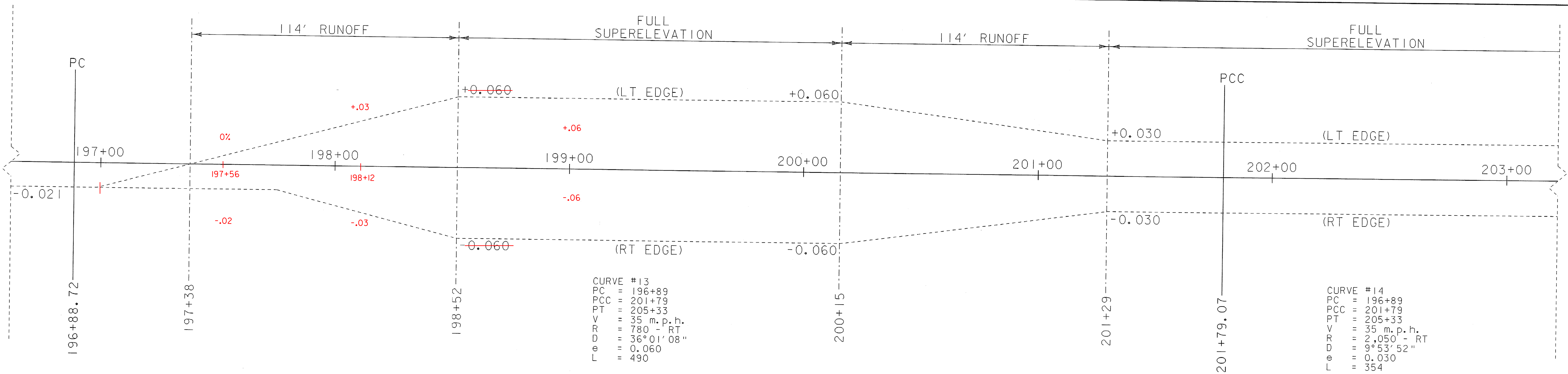
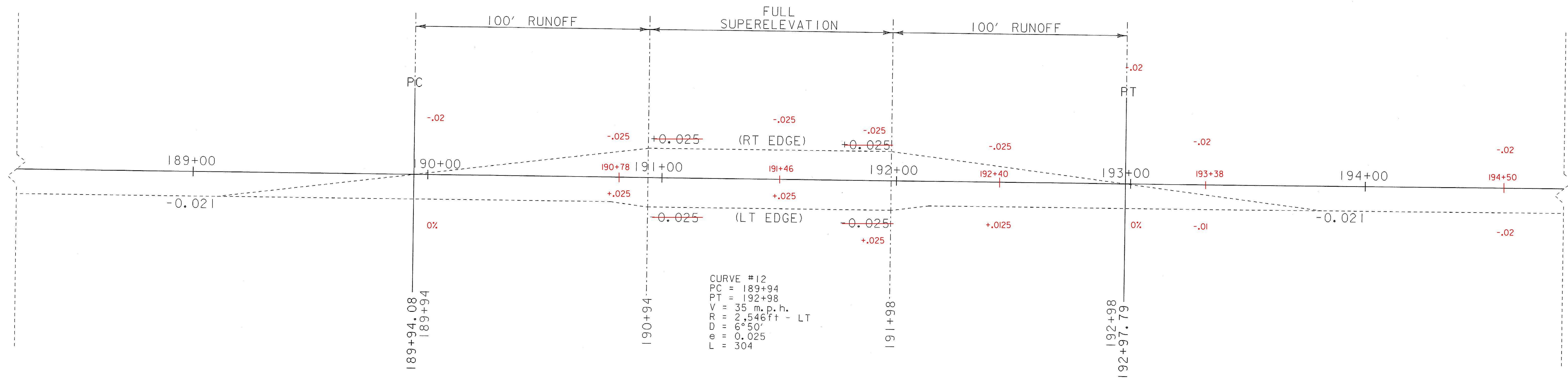






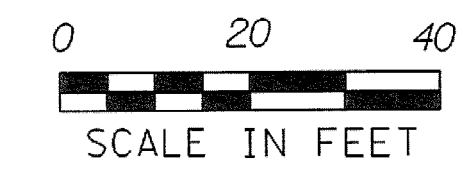
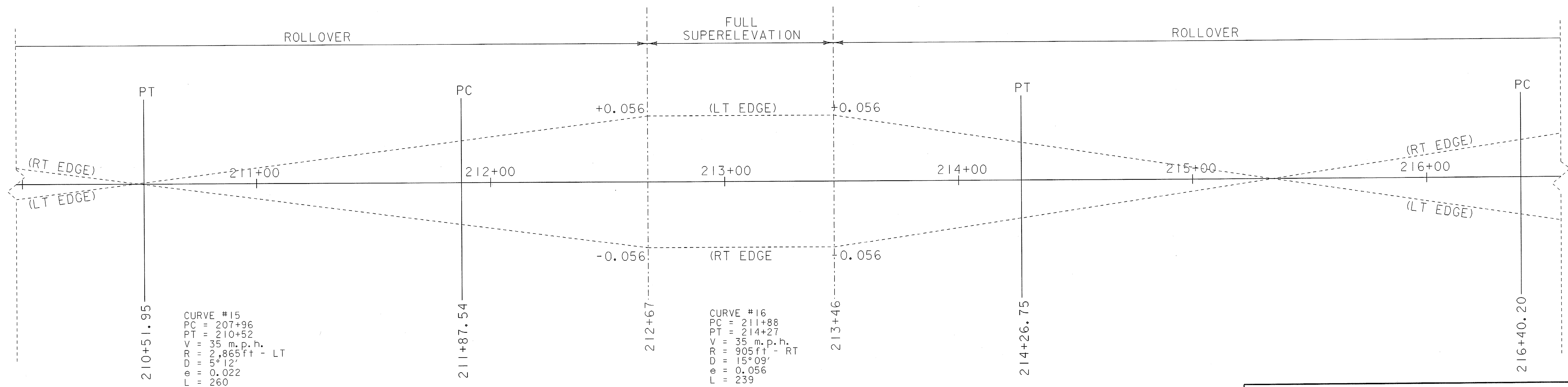
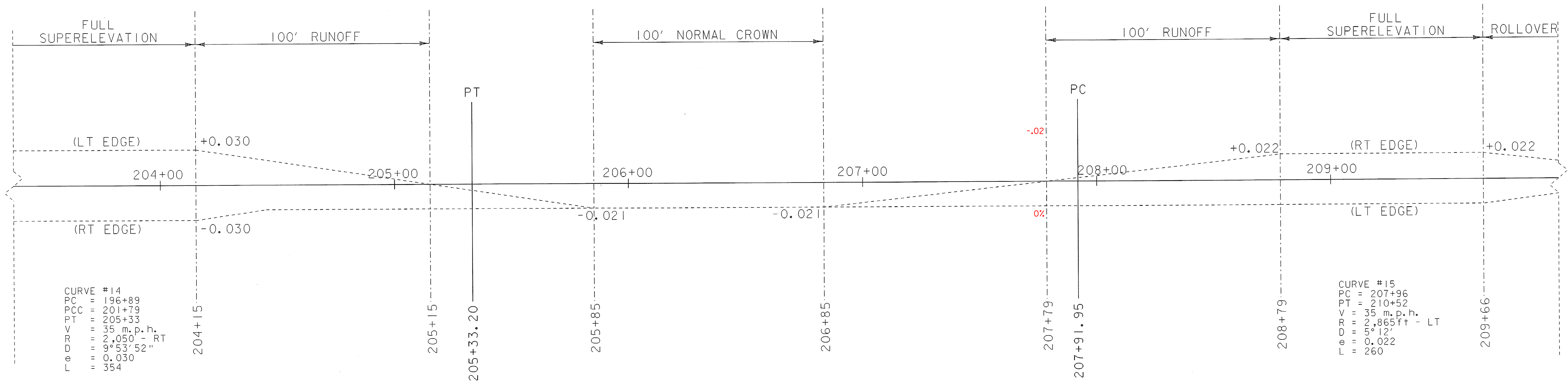
|                             |                        |
|-----------------------------|------------------------|
| PROJECT NAME: SPRINGFIELD   |                        |
| PROJECT NUMBER: STP 0136(1) |                        |
| FILE NAME: Bank.dgn         | PLOT DATE: 30-DEC-2008 |
| PROJECT LEADER: K. UPMAL    | DRAWN BY: B. KIPP      |
| DESIGNED BY: B. KIPP        | CHECKED BY: N. PAPPAS  |
| BANKING DIAGRAM 4           | SHEET 51 OF 68         |





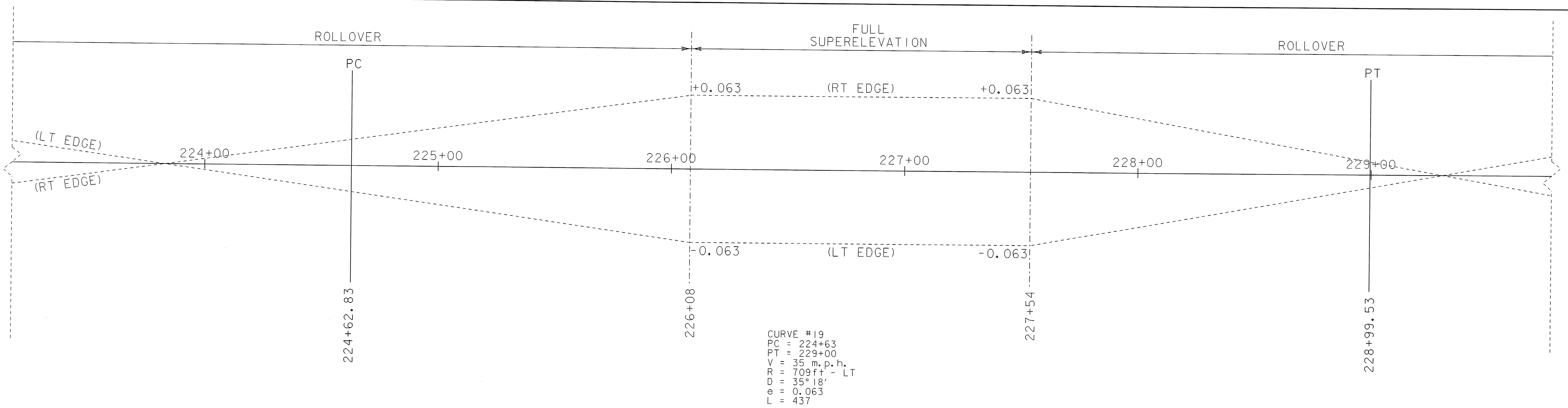
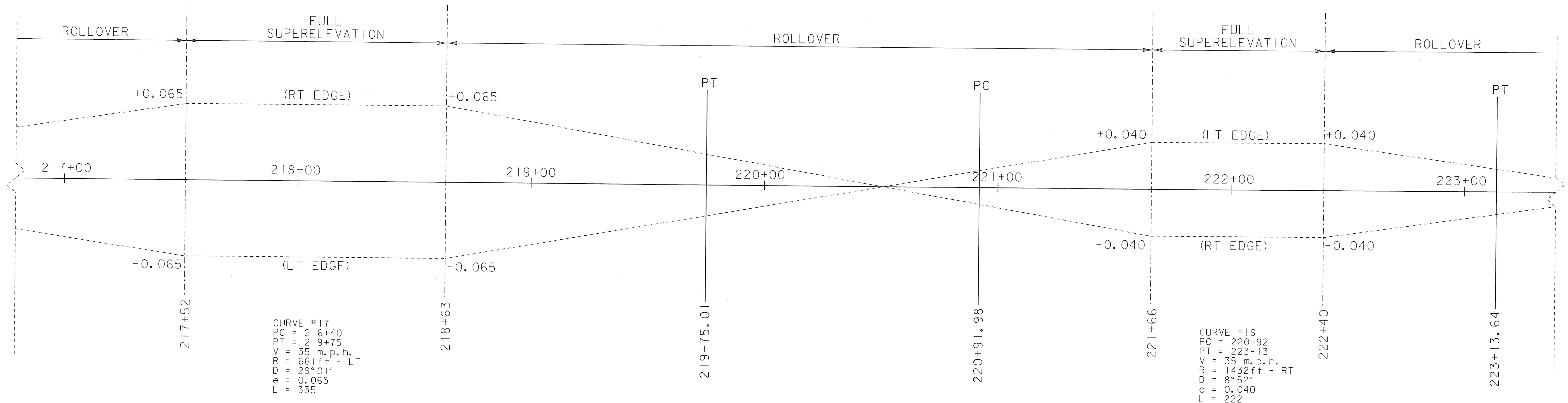
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|-----------------------------|------------------------|
| PROJECT NAME: SPRINGFIELD   | PLOT DATE: 30-DEC-2008 |
| PROJECT NUMBER: STP 0136(1) | DRAWN BY: B. KIPP      |
| FILE NAME: Bank.dgn         | CHECKED BY: N. PAPPAS  |
| PROJECT LEADER: K. UPMAL    | SHEET 52 OF 68         |
| DESIGNED BY: B. KIPP        |                        |
| BANKING DIAGRAM 5           |                        |





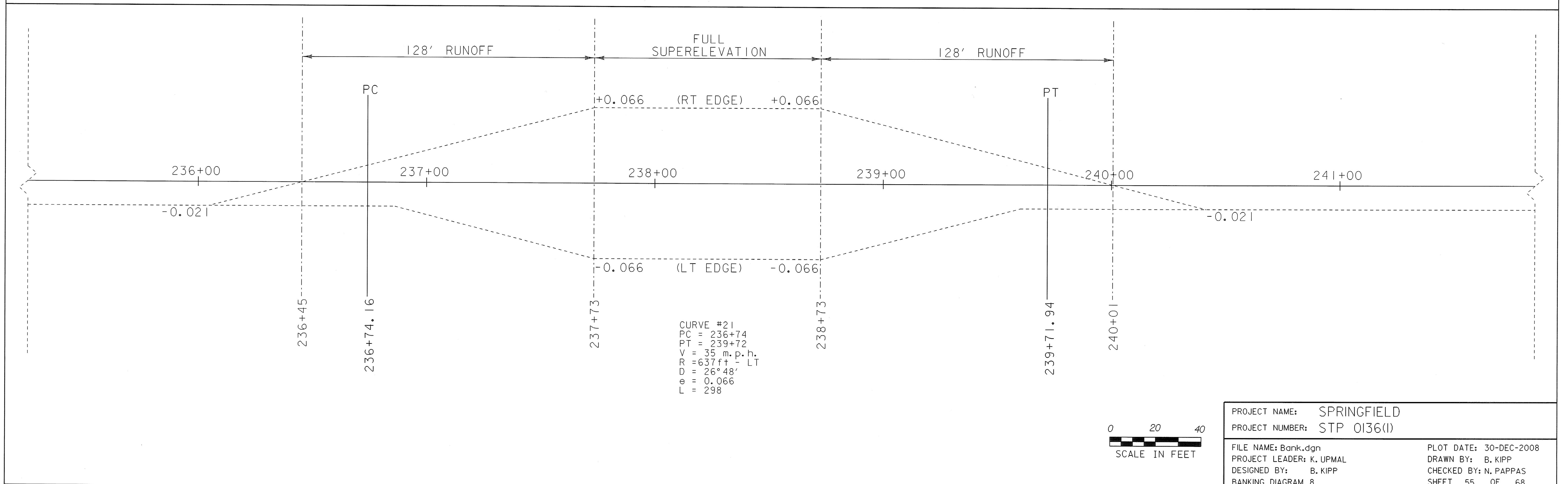
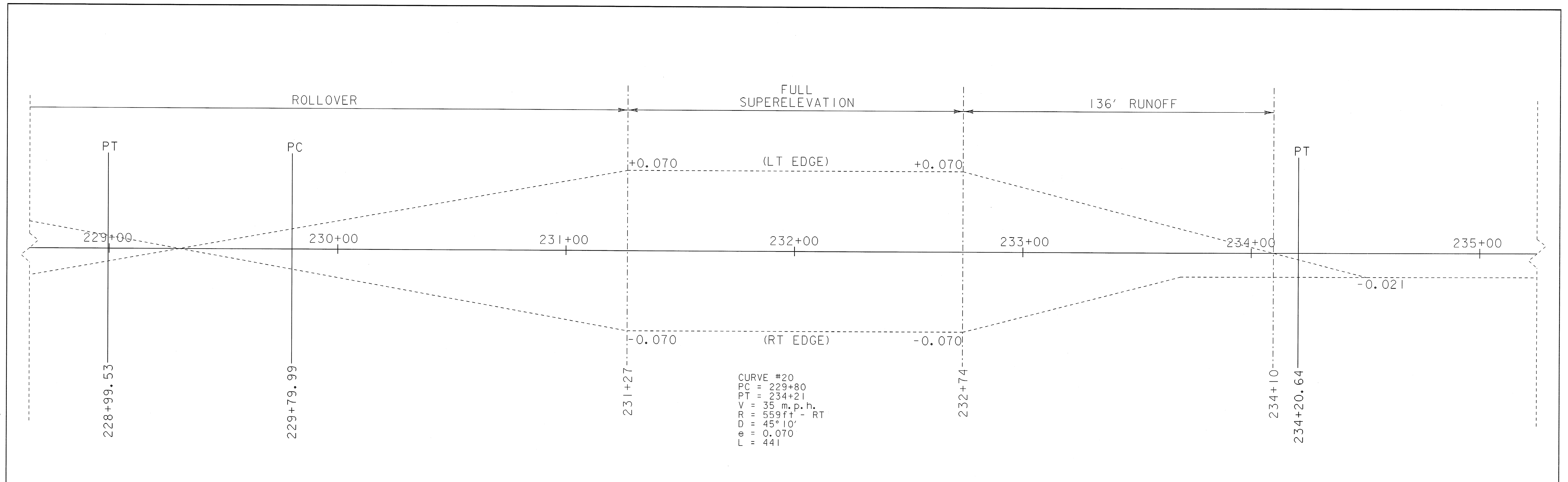
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|-----------------|-------------|-----------------|----------|-------------|-------------|
| PROJECT NAME:   | SPRINGFIELD | FILE NAME:      | Bank.dgn | PLOT DATE:  | 30-DEC-2008 |
| PROJECT NUMBER: | STP 0136(I) | PROJECT LEADER: | K. UPMAL | DRAWN BY:   | B. KIPP     |
|                 |             | DESIGNED BY:    | B. KIPP  | CHECKED BY: | N. PAPPAS   |
|                 |             | BANKING DIAGRAM | 6        | SHEET       | 53 OF 68    |



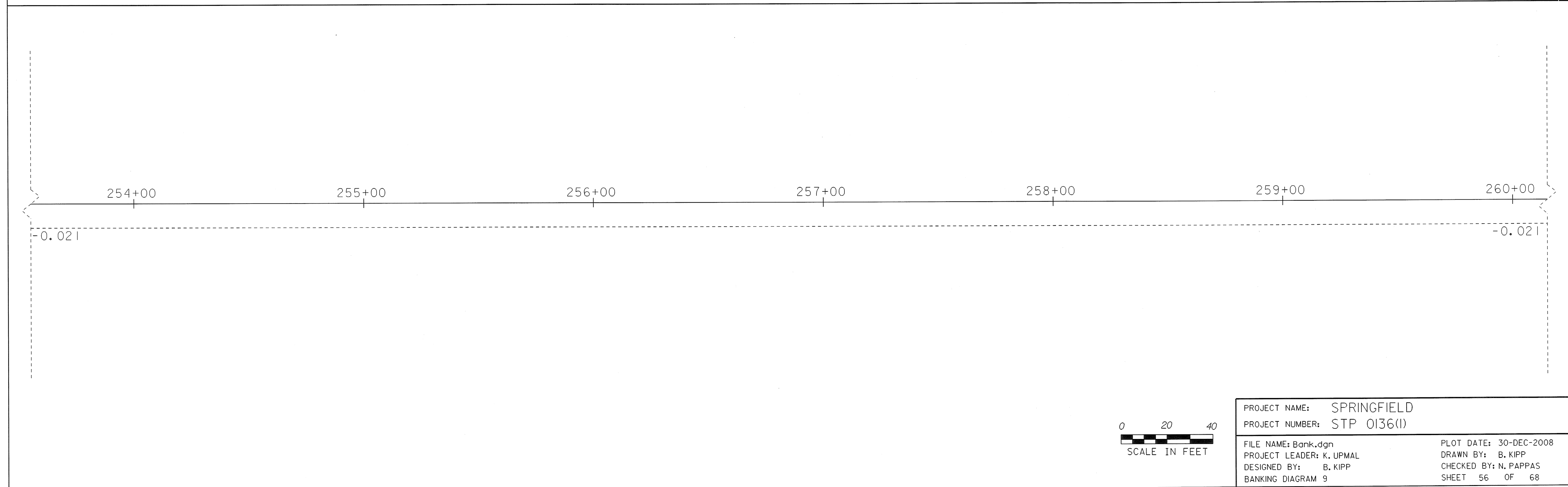
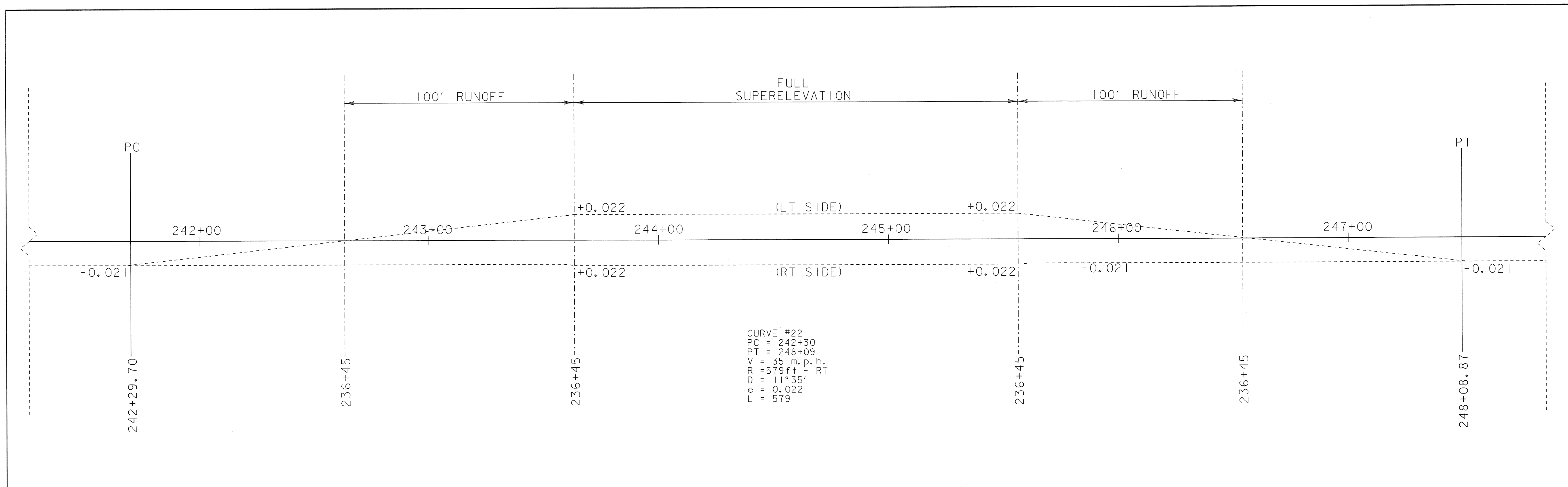


|                             |                        |
|-----------------------------|------------------------|
| PROJECT NAME: SPRINGFIELD   | PLOT DATE: 30-DEC-2008 |
| PROJECT NUMBER: STP 0136(I) | DRAWN BY: B. KIPP      |
| FILE NAME: Bank.dgn         | CHECKED BY: N. PAPPAS  |
| PROJECT LEADER: K. UPMAL    | SHEET 54 OF 68         |
| DESIGNED BY: B. KIPP        |                        |
| BANKING DIAGRAM 7           |                        |

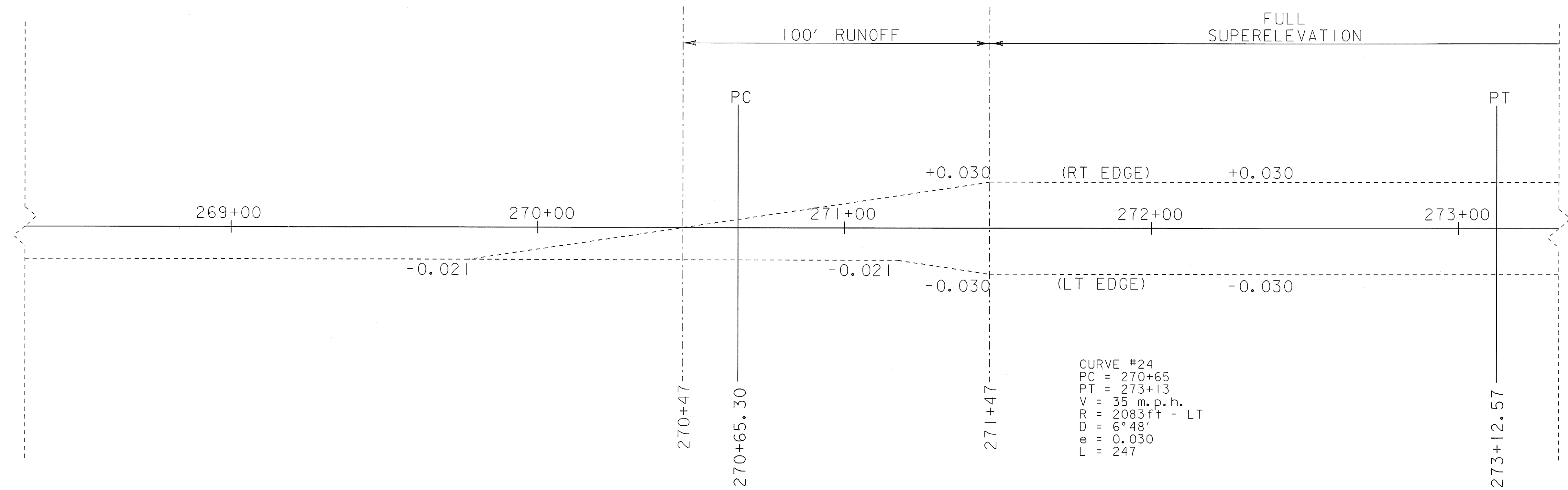
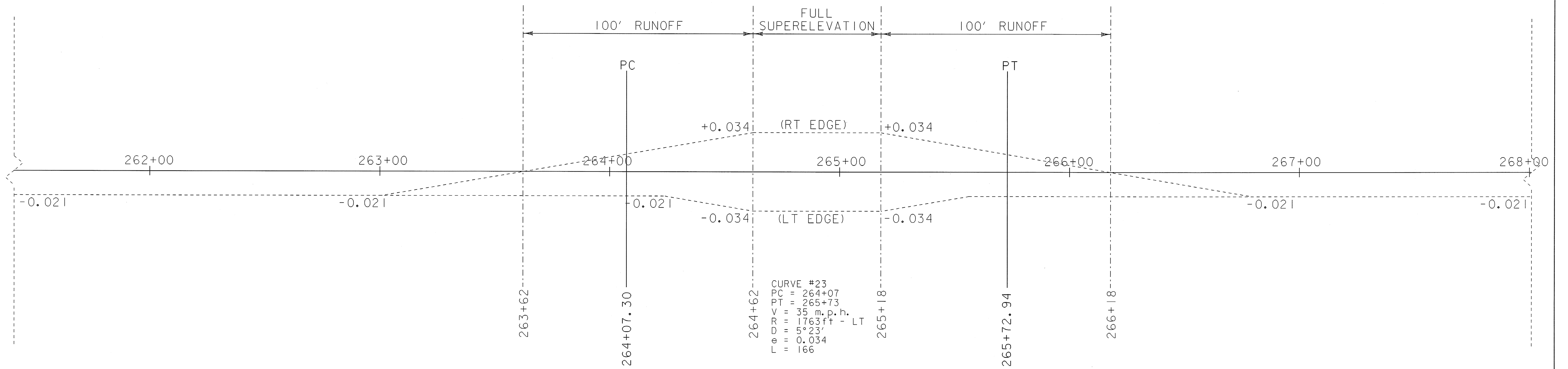








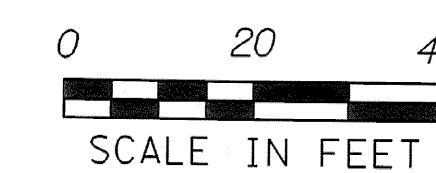
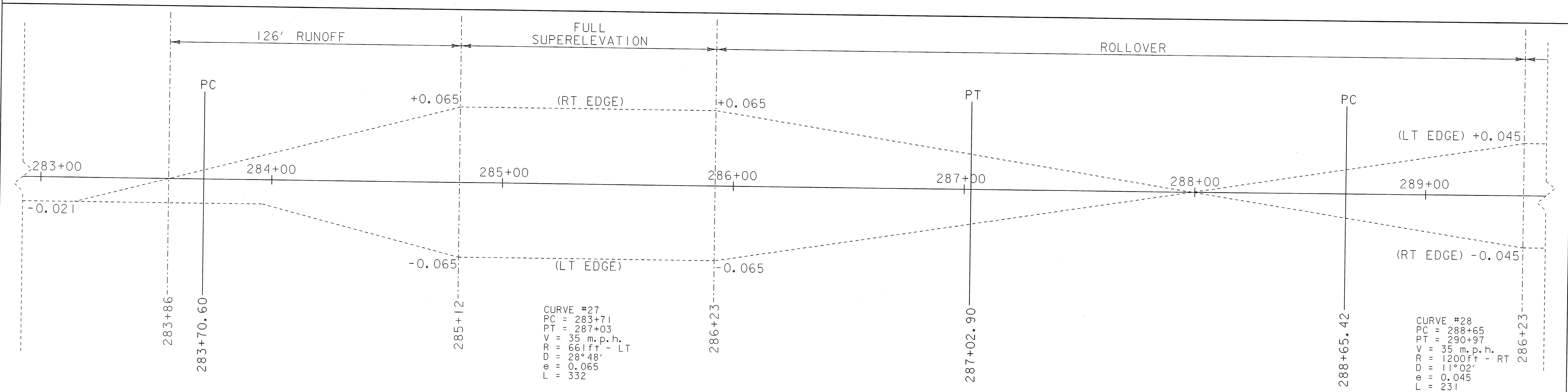
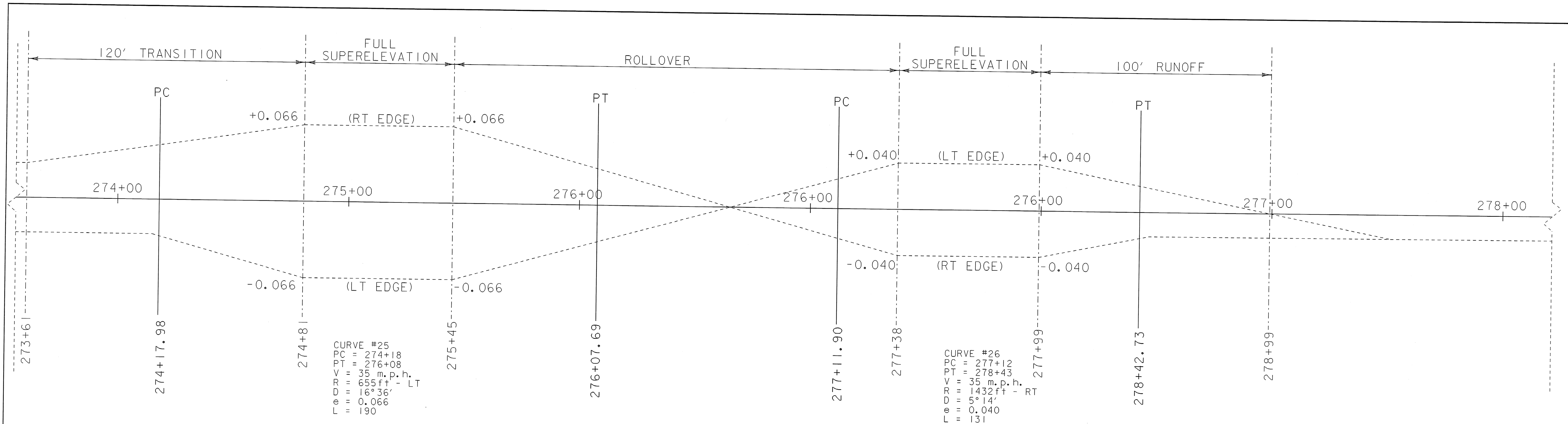




0 20 40  
 SCALE IN FEET

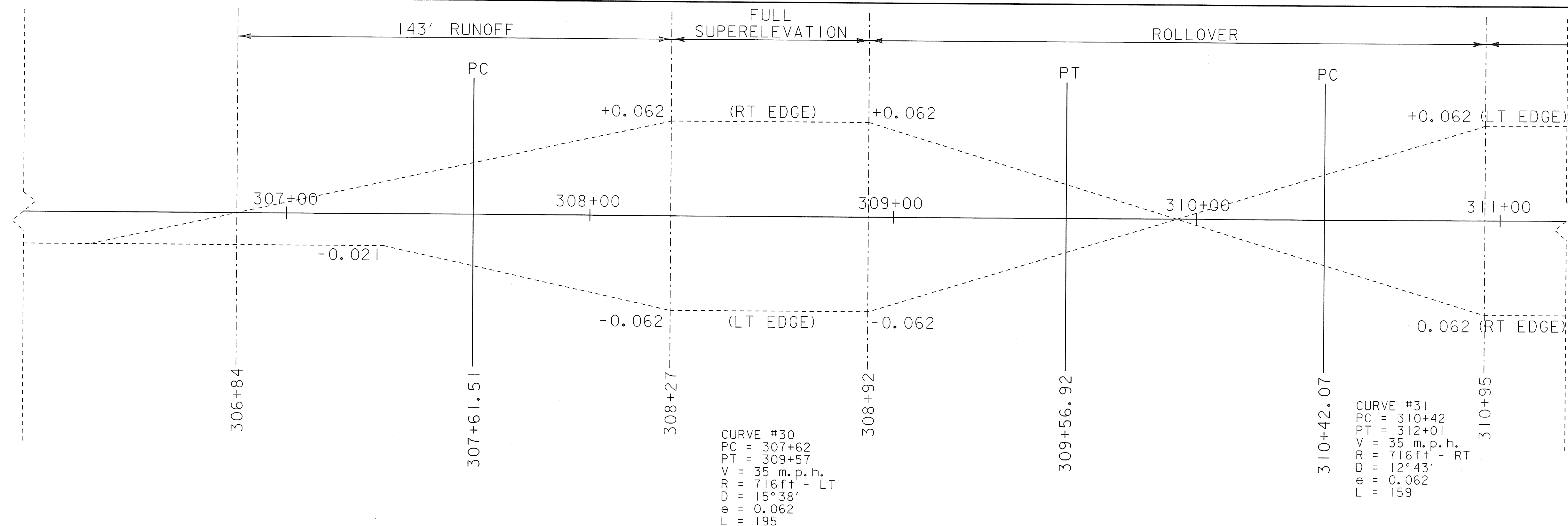
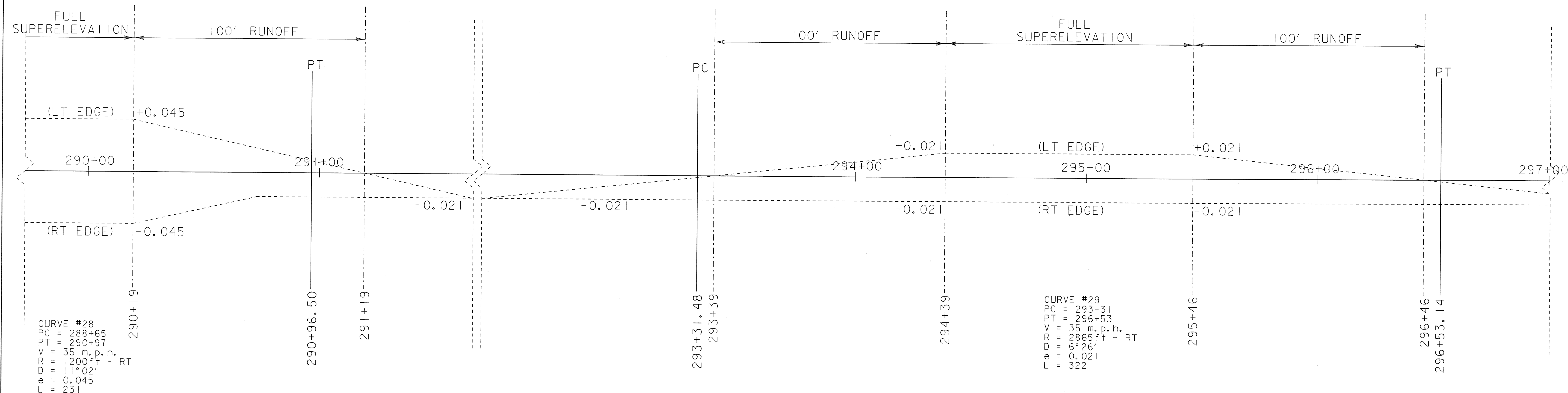
|                             |                        |
|-----------------------------|------------------------|
| PROJECT NAME: SPRINGFIELD   | PLOT DATE: 30-DEC-2008 |
| PROJECT NUMBER: STP 0136(1) | DRAWN BY: B. KIPP      |
| FILE NAME: Bank.dgn         | CHECKED BY: N. PAPPAS  |
| PROJECT LEADER: K. UPMAL    | SHEET 57 OF 68         |
| DESIGNED BY: B. KIPP        |                        |
| BANKING DIAGRAM 10          |                        |





|                             |                        |
|-----------------------------|------------------------|
| PROJECT NAME: SPRINGFIELD   | PLOT DATE: 30-DEC-2008 |
| PROJECT NUMBER: STP 0136(1) | DRAWN BY: B. KIPP      |
| FILE NAME: Bank.dgn         | CHECKED BY: N. PAPPAS  |
| PROJECT LEADER: K. UPMAL    | SHEET 58 OF 68         |
| DESIGNED BY: B. KIPP        |                        |
| BANKING DIAGRAM II          |                        |





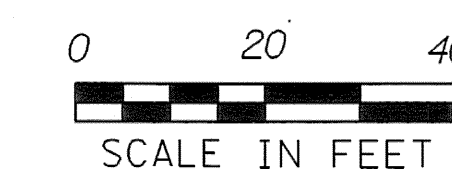
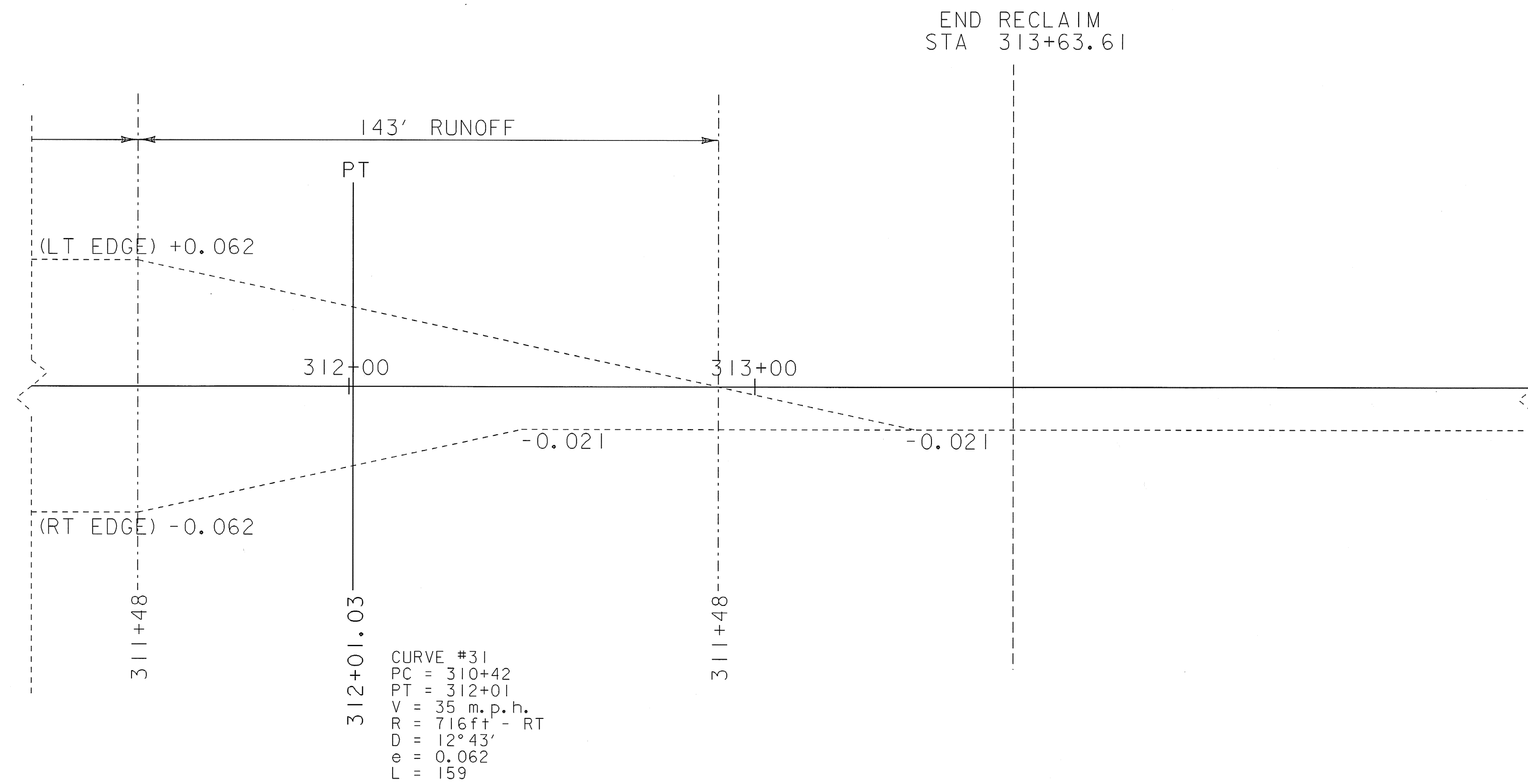
0 20 40  
 SCALE IN FEET

PROJECT NAME: SPRINGFIELD  
 PROJECT NUMBER: STP 0136(1)

FILE NAME: Bank.dgn  
 PROJECT LEADER: K. UPMAL  
 DESIGNED BY: B. KIPP  
 BANKING DIAGRAM 12

PLOT DATE: 30-DEC-2008  
 DRAWN BY: B. KIPP  
 CHECKED BY: N. PAPPAS  
 SHEET 59 OF 68





|                          |                        |
|--------------------------|------------------------|
| PROJECT NAME:            | SPRINGFIELD            |
| PROJECT NUMBER:          | STP 0136(1)            |
| FILE NAME: Bank.dgn      | PLOT DATE: 30-DEC-2008 |
| PROJECT LEADER: K. UPMAL | DRAWN BY: B. KIPP      |
| DESIGNED BY: B. KIPP     | CHECKED BY: N. PAPPAS  |
| BANKING DIAGRAM 13       | SHEET 60 OF 68         |



# TRAFFIC SIGN SUMMARY SHEET #1

# TRAFFIC SIGN SUMMARY SHEET 1



# TRAFFIC SIGN SUMMARY SHEET #2

# TRAFFIC SIGN SUMMARY SHEET 2



# TRAFFIC SIGN SUMMARY SHEET #3

# TRAFFIC SIGN SUMMARY SHEET 3



# TRAFFIC SIGN SUMMARY SHEET #4

# TRAFFIC SIGN SUMMARY SHEET 4



# TRAFFIC SIGN SUMMARY SHEET #5

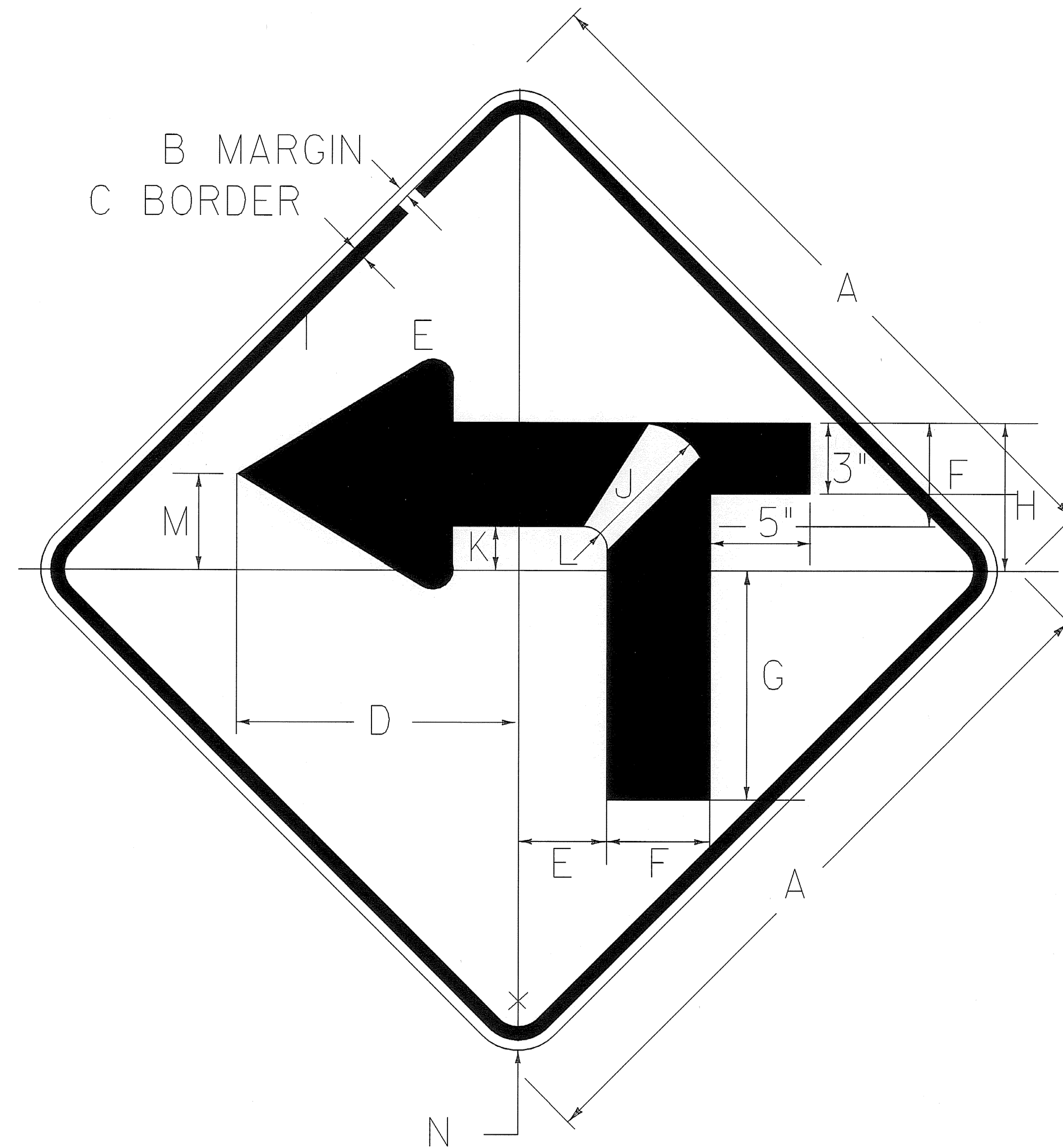
# TRAFFIC SIGN SUMMARY SHEET 5



# TRAFFIC SIGN SUMMARY SHEET #6

# TRAFFIC SIGN SUMMARY SHEET 6





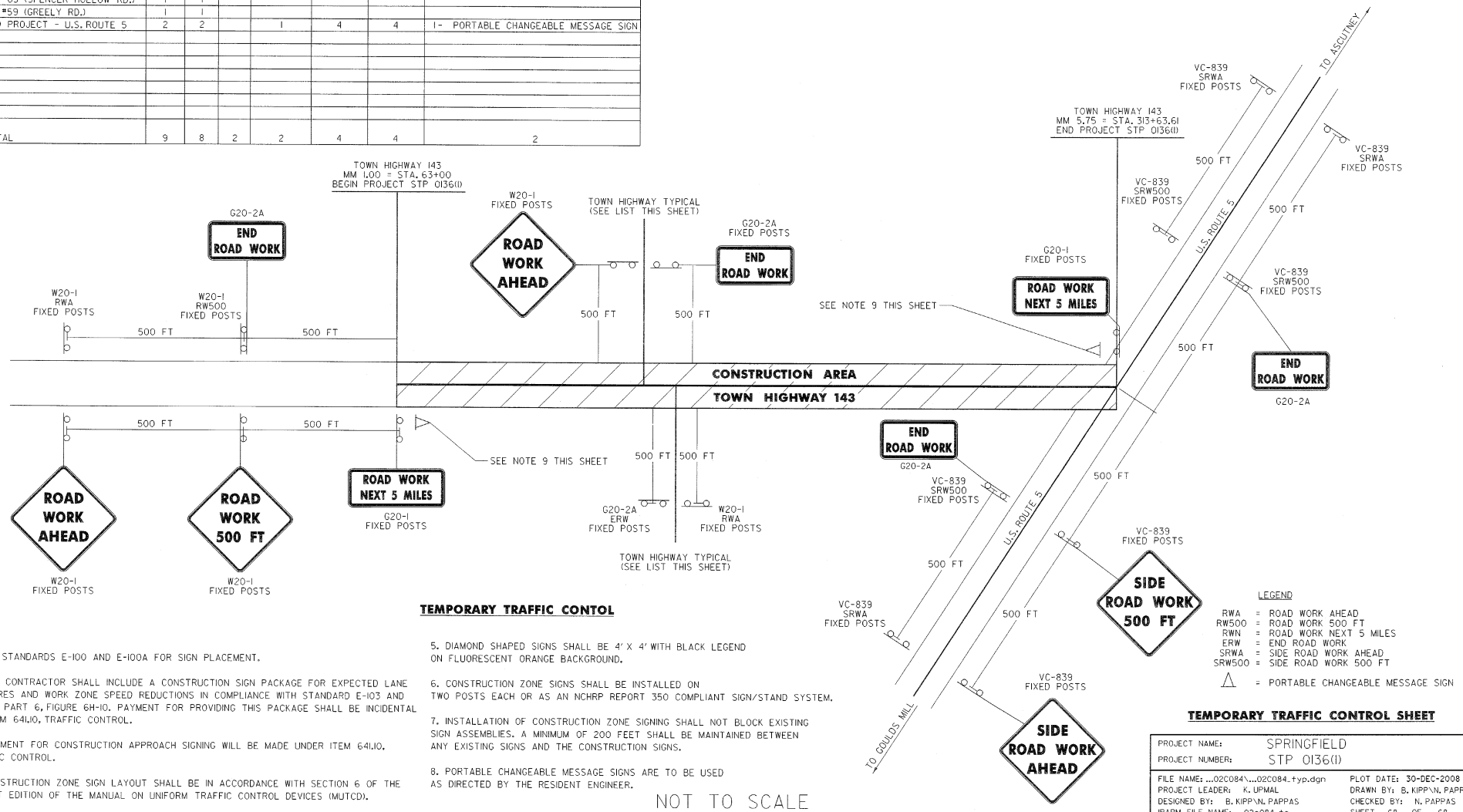
WI-IMd L

COLORS: BLACK SYMBOL AND BORDER  
WITH RETROREFLECTIVE YELLOW BACKGROUND

# **SIGN DETAIL SHEET**

|                                        |                        |
|----------------------------------------|------------------------|
| PROJECT NAME:                          | SPRINGFIELD            |
| PROJECT NUMBER:                        | STP 0136(1)            |
| FILE NAME: ...02c084\...02c084_frm.dgn | PLOT DATE: 30-DEC-2008 |
| PROJECT LEADER: K. UPMAL               | DRAWN BY: B. KIPP      |
| DESIGNED BY: B. KIPP                   | CHECKED BY: N. PAPPAS  |
| IPARM FILE NAME: 02c084_signdetail     | SHEET 67 OF 68         |

| TOWN/STATE HIGHWAY NAME     | ROAD<br>WORK<br>AHEAD | END<br>ROAD<br>WORK | ROAD WORK<br>500' | ROAD WORK<br>NEXT<br>5 MILES | SIDE ROAD<br>WORK<br>AHEAD | SIDE ROAD<br>WORK<br>500' | OTHER                                |
|-----------------------------|-----------------------|---------------------|-------------------|------------------------------|----------------------------|---------------------------|--------------------------------------|
| BEGIN PROJECT               | 2                     | 1                   | 2                 | 1                            |                            |                           | I - PORTABLE CHANGEABLE MESSAGE SIGN |
| TH #429 (WILMUTH DR.)       | 1                     | 1                   |                   |                              |                            |                           |                                      |
| TH #54 (EUREKA RD.)         | 1                     | 1                   |                   |                              |                            |                           |                                      |
| TH #65 (CROWN POINT RD.)    | 1                     | 1                   |                   |                              |                            |                           |                                      |
| TH #63 (SPENCER HOLLOW RD.) | 1                     | 1                   |                   |                              |                            |                           |                                      |
| TH #59 (GREELY RD.)         | 1                     | 1                   |                   |                              |                            |                           |                                      |
| END PROJECT - U.S. ROUTE 5  | 2                     | 2                   |                   | 1                            | 4                          | 4                         | I - PORTABLE CHANGEABLE MESSAGE SIGN |
|                             |                       |                     |                   |                              |                            |                           |                                      |
|                             |                       |                     |                   |                              |                            |                           |                                      |
|                             |                       |                     |                   |                              |                            |                           |                                      |
|                             |                       |                     |                   |                              |                            |                           |                                      |
|                             |                       |                     |                   |                              |                            |                           |                                      |
|                             |                       |                     |                   |                              |                            |                           |                                      |
|                             |                       |                     |                   |                              |                            |                           |                                      |
|                             |                       |                     |                   |                              |                            |                           |                                      |
| TOTAL                       | 9                     | 8                   | 2                 | 2                            | 4                          | 4                         | 2                                    |



NOT TO SCALE