

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

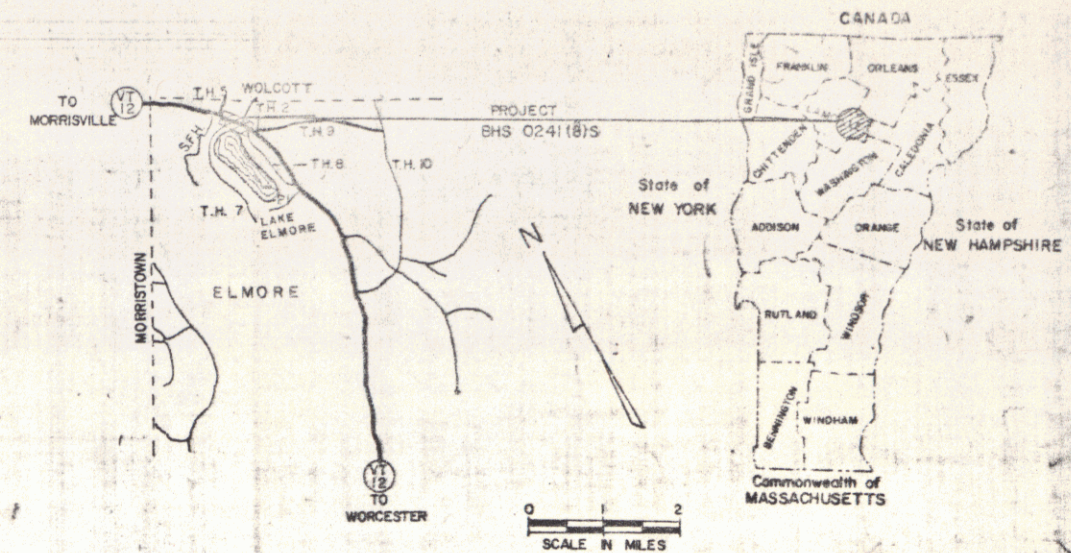


PROPOSED IMPROVEMENT  
**TOWN OF ELMORE**  
COUNTY OF LAMOILLE  
**VERMONT ROUTE 12 (FAS)**

BEGINNING AT A POINT 1.200 MILES IN A  
SOUTHEASTERLY DIRECTION FROM THE  
MORRISTOWN-ELMORE TOWN LINE AND  
EXTENDING 0.095 MILES IN A NORTH-  
WESTERLY DIRECTION.

THIS PROJECT CONSISTS OF BRIDGE WIDENING, INCLUDING  
APPROACHES, ON EXISTING VT. 12.

LENGTH OF ROADWAY 477.7 FEET = 0.091 MILES  
LENGTH OF BRIDGE 22.3 FEET = 0.004 MILES  
LENGTH OF PROJECT 500.0 FEET = 0.095 MILES  
LENGTH OF ROW PROJ. 700.0 FEET = 0.133 MILES



TRAFFIC DATA \*  
1981 AADT 1600  
1981 DMV 240  
D 55% NB  
T 3%  
V 40 MPH

R.O.W. PLANS

CONVENTIONAL SIGNS

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

DATUM  
VERTICAL NGVD 1929  
HORIZONTAL N/A

BEGIN ROW PROJECT  
BHS 0241(8)S STA. 10+00 CL

REV. 11+00 MP 6.742  
BEGIN PROJECT BHS 0241(8)S  
CONSTRUCT SATISFACTORY  
APPROACH

CHAN. LINE 100+00  
= PT 14+00.70  
Δ = 61° 30'  
PIC 13+22.00 =  
TH 2 20+00.00  
TAN TO CURVE  
Δ = 99° 20'

REV. 16+00 MP 6.837  
END PROJECT BHS 0241(8)S  
CONSTRUCT SATISFACTORY  
APPROACH

REV. 14+64.40  
END BRIDGE  
RESUME ROADWAY

REV. 14+42.10  
STOP ROADWAY  
BEGIN BRIDGE

END ROW PROJECT  
BHS 0241(8)S REV. STA. 17+00 CL

RIGHT-OF-WAY DIVISION  
TOWN FILE  
PERPETUAL

Town of \_\_\_\_\_  
(To Be Returned To \_\_\_\_\_)

These plans are subject to such engineering  
changes as may be required by the Federal Highway  
Administration or the Director of Engineering and Construction.  
Construction is to be carried on in accordance  
with these plans and the Standard Specifications  
for Highway and Bridge Construction dated  
March, 1976, as approved by the Federal Highway  
Administration on October 27, 1976 for use on  
this project, including all subsequent revisions and  
such revised specifications and special provisions as  
are incorporated in these plans.

APPROVED \_\_\_\_\_  
CHIEF PROPERTY ADMINISTRATION

Pin# 78E150

PROJECT PROCESSED UNDER  
SECONDARY ROAD PLAN

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD  
APPROVED \_\_\_\_\_ DATE 7-21-81  
DIRECTOR OF ENGINEERING AND CONSTRUCTION  
DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
DIVISION ADMINISTRATOR

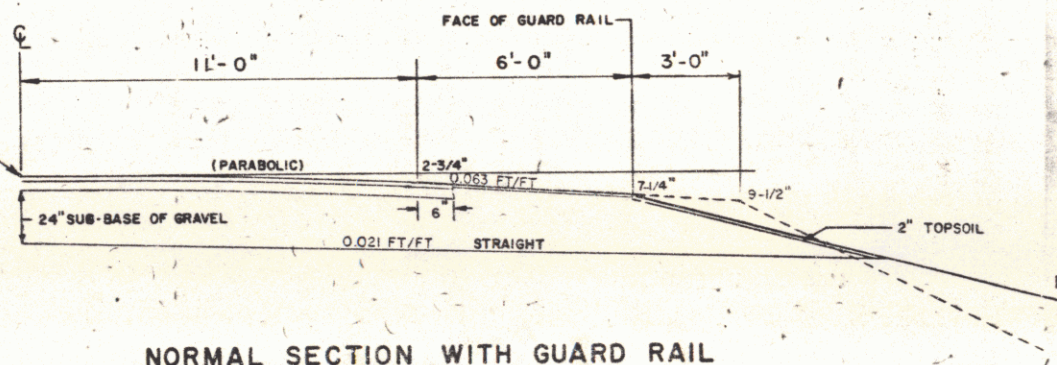
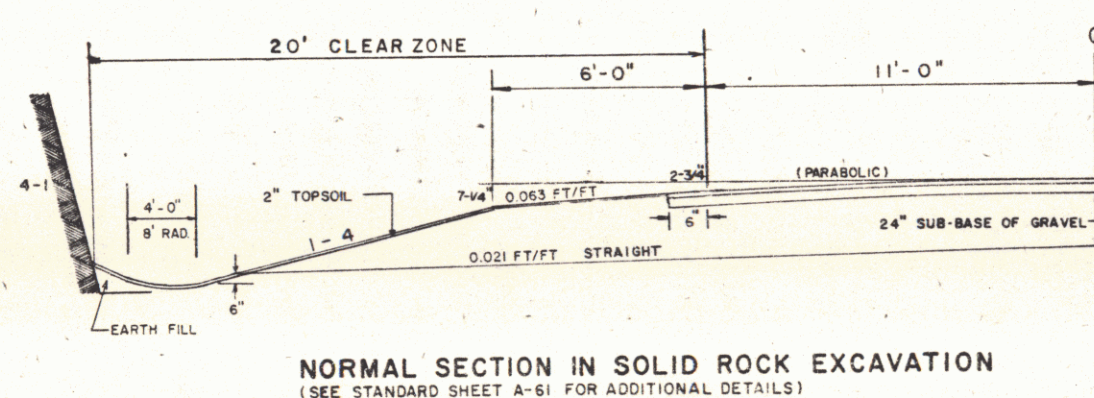
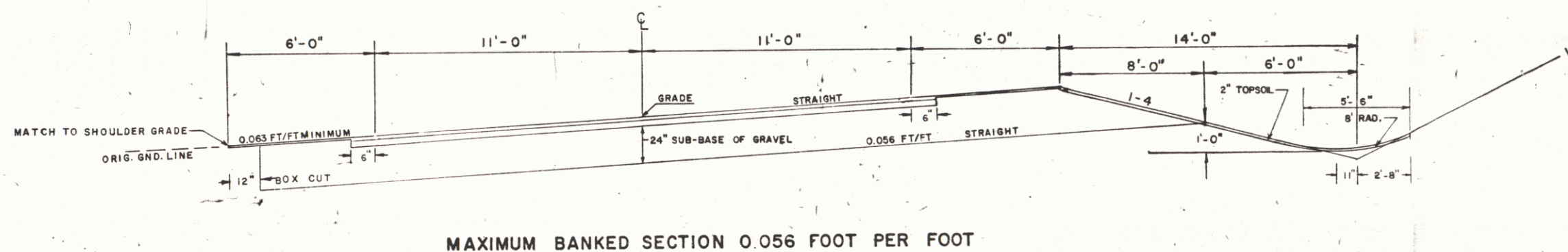
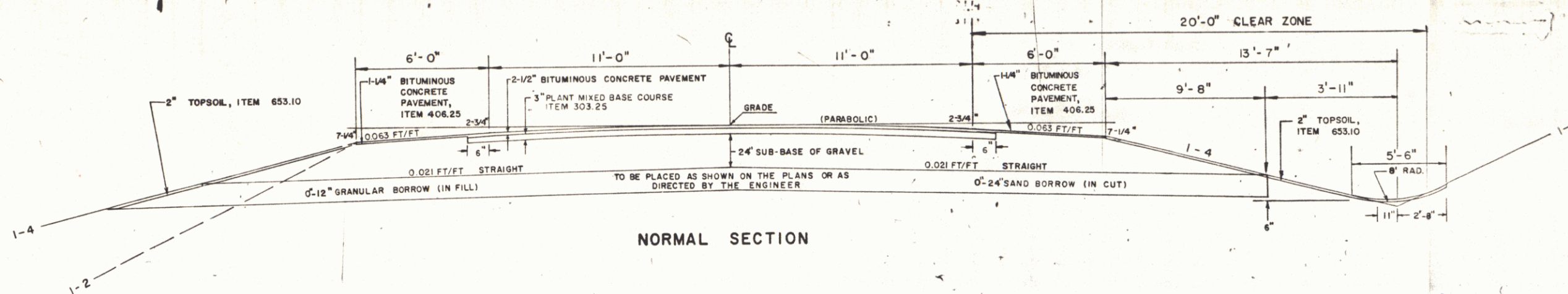
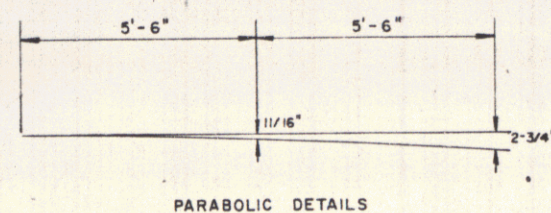
ELMORE BHS 0241(8)S

SHEET 1 OF 6 SHEETS

# TYPICAL SECTIONS

2-1/2" BITUMINOUS CONCRETE PAVEMENT, ITEM 406.25 (+1/4")  
 3" PLANT MIXED BASE COURSE, ITEM 303.25 (+1/2")  
 24" SUB-BASE OF GRAVEL, ITEM 301.15 (+1")  
 SHOULDERS: 1-1/4" BITUMINOUS CONCRETE PAVEMENT, ITEM 406.25 (+1/4")  
 0"-24" SAND BORROW, ITEM 203.31 (+1")  
 0"-12" GRANULAR BORROW, ITEM 203.32 (+1")

TO BE PLACED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER  
 TOLERANCE IN PARENTHESES APPLIES TO THICKNESSES



## GENERAL NOTES

TO BE APPLIED AS DIRECTED BY THE ENGINEER

### SEEDING FORMULA, ITEM 651.10 URBAN AREAS

| % WT   | LBS/A | NAME                | PUR% | GERM% |
|--------|-------|---------------------|------|-------|
| 37.50  | 30    | CREEPING RED FESCUE | 98   | 85    |
| 31.25  | 25    | KENTUCKY BLUEGRASS  | 85   | 75    |
| 31.25  | 25    | PERENNIAL RYE GRASS | 95   | 90    |
| 100.00 | 80    |                     |      |       |

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

MARKER POSTS, (WOOD OR STEEL AS SPECIFIED) TO BE PLACED AS DIRECTED BY THE ENGINEER

### FERTILIZER, ITEM 651.15

FORMULA 10-20-10 TO BE USED WITH SEED, ITEM 651.10 APPLIED AT THE RATE OF 500 LBS/ACRE

### AGRICULTURAL LIMESTONE, ITEM 651.20

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

### HAY MULCH, ITEM 651.25

TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE

### TOPSOIL, ITEM 653.10

TO BE USED WITH SEED, ITEM 651.10 IN RESIDENTIAL AREAS, AS DIRECTED BY THE ENGINEER

SEE STANDARD SHEET B-5 FOR TYPICAL SLOPE ROUNDING

SEE STANDARD SHEET D-2 FOR SAND BORROW IN CONJUNCTION WITH UNDERDRAIN.

TOWN OF ELMORE

STATE OF VERMONT  
 AGENCY OF TRANSPORTATION

DRAWN BY: *[Signature]* TRACED BY: *[Signature]*  
 PROJ. BHS0241(8)S SHEET 2 OF 6

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# STATE OF VERMONT AGENCY OF TRANSPORTATION RIGHT-OF-WAY PLANS DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

| PARCEL NO. | GRANTOR                                              | SHEET NO. | BEGINNING STATION                                  | ENDING STATION                   | TAKING  | REM.    | RIGHTS                            | TITLE TAKEN | DATE    | TOWN OR CITY RECORDED | BK. | PG.   | REMARKS                                                            |
|------------|------------------------------------------------------|-----------|----------------------------------------------------|----------------------------------|---------|---------|-----------------------------------|-------------|---------|-----------------------|-----|-------|--------------------------------------------------------------------|
| 1          | ELMORE TOWN SCHOOL DISTRICT                          | 5         | REV. 11+60 RT.<br>10+65 RT.                        | REV. 11+69 RT.<br>REV. 11+68 RT. |         |         | CUL. (P)<br>SLOPE (T) (0.04 A±)   | WDOE        | 1-21-82 | ELMORE                | 27  | 327-9 | (1680 S.F.±)                                                       |
| 2A         | TOWN OF ELMORE                                       | 5         | REV. 11+60 LT.                                     | REV. 11+78 LT.                   |         |         | CONST. EASE. (T) (0.02 A±)        | AGREE.      |         |                       |     |       | (800 S.F.±)                                                        |
| 2B         |                                                      | 5         | REV. 12+90 RT.                                     | REV. 13+38 RT.                   |         |         | CONST. APPROACH (T)               |             |         |                       |     |       | T.H. 2                                                             |
| 3          | LEAHY, JAMES & LETITIA                               | 5         | REV. 11+60 RT.<br>REV. 11+68 RT.<br>REV. 12+35 RT. | REV. 12+93 RT.<br>REV. 11+78 RT. | 0.04 A± | 0.31 A± | SLOPE (T) (15 S.F.±)<br>DRIVE (T) | WD          |         | ELMORE                | 27  | 300-1 | (1530 S.F.±)<br>18' GRAVEL N.P. 6.735<br>DRIVE PERMIT DATE:        |
| 4          | MERCIA, MORRIS E. & ELEANOR M.                       | 5         | REV. 11+73 LT.                                     | REV. 11+90 LT.                   |         |         | CONST. EASE. (T) (0.02 A±)        | AGREE.      |         |                       |     |       | (900 S.F.±)                                                        |
| 5          | SMITH, PHILIP H.                                     | 5         | REV. 13+41 RT.<br>REV. 13+70 RT.                   | REV. 14+12 RT.                   | 0.03 A± | 0.47 A± | CONST. EASE. (T)                  | WD          |         | ELMORE                | 27  | 309-0 | (1315 S.F.±)<br>SIGNAL POLE                                        |
| 6          | KNEELAND, HAROLD D. & REAVA L.                       | 5         | REV. 14+05 RT.                                     | REV. 16+19 RT.                   | 0.10 A± | 3.90 A± |                                   | WD          |         | ELMORE                | 27  | 295   |                                                                    |
| 7          | VILLAGE OF MORRISVILLE<br>(WATER & LIGHT DEPARTMENT) | 5         | REV. 15+70 LT.                                     |                                  |         |         | DRIVE (T)                         | RELEASE     |         |                       |     |       | 12' GRAVEL N.P. 6.821<br>DRIVE RELEASE DATE:<br>DRIVE PERMIT DATE: |

TABLE OF REVISIONS

| REVISION NO. | SHEET NO. | DESCRIPTION OF REVISION                                                                                                                                               | DATE     | MADE BY | APPROVED BY |
|--------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|-------------|
| 1            | 3         | Parcel #4 Mercia's Changed. Sta. Rev. 11+73 RT. ~ Rev. 11+90 RT. TO Rev. 11+73 LT. ~ Rev. 11+90 LT. Per C.O.# 5036                                                    | 9-9-81   | BAW     | T.P.M.      |
| 2            | 3         | Parcel #1 SCHOOL DIST. CHANGE TITLE TAKEN FROM WD TO WDOE PER C.O. 5091                                                                                               | 9-17-81  | JDP     | T.P.M.      |
| 3            | 3.5       | Parcel #1 Elmore Town School District Deleted take area. Added CUL(P) at REV. 11+60 to REV. 11+69 RT. Increased Slope (T) Area to 1680 S.F.± (0.04 A±) Per C.O.# 5121 | 10-22-81 | Huf.    | T.P.M.      |

MADE BY: K. D. PERKINS DATE 7-17-81  
CHECKED BY: F. J. KALNATI JR. DATE 7-20-81

DR. RT. - DRAINAGE RIGHT  
DIT. RT. - DITCHING RIGHT  
CH. RT. - CHANNEL RIGHT  
DRIVE RT. - DRIVE RIGHT  
CUL. RT. - CULVERT RIGHT  
DEM. - DEMOLITION OR REMOVAL  
W - WATER SOURCES

PRESENT R.O.W.  
TAKING WITHOUT ACCESS  
TAKING WITHOUT ACCESS ALONG PROPERTY LINES  
TAKING WITH ACCESS  
(P) PERMANENT EASEMENT  
(T) TEMPORARY EASEMENT

LEGEND  
CONST. EASE - CONST. EASEMENT  
SR - SLOPE RIGHTS  
P - PROPERTY LINE  
Δ - TOP OF CUT  
○ - TOE OF SLOPE

APPROVED: *Robert P. May* DATE 7-21-81  
CHIEF OF PLANS & TITLES

PROJECT ELMORE  
NO. BHS 0241(8)S  
SHEET 3 OF 6

ROW

STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
RIGHT-OF-WAY PLANS  
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

[illegible]

## TABLE OF REVISIONS

| REVISION NO. | SHEET NO. | DESCRIPTION OF REVISION | DATE | MADE BY | APPROVED BY |
|--------------|-----------|-------------------------|------|---------|-------------|
|              |           |                         |      |         |             |

MADE BY: K.D. PERKINS DATE 7-17-81  
CHECKED BY: F. J. WALNATI JR. DATE 7-20-81

DR. RT. — DRAINAGE RIGHT  
DIT. RT. — DITCHING RIGHT  
CH. RT. — CHANNEL RIGHT  
DRIVE RT. — DRIVE RIGHT  
CUL. RT. — CULVERT RIGHT  
⬡ — DEMOLITION OR  
REMOVAL  
W — WATER SOURCES

|                      |                                            |        |
|----------------------|--------------------------------------------|--------|
| _____                | PRESENT                                    | R.O.W. |
| /// --- ///          | TAKING WITHOUT ACCESS                      |        |
| /// <u>  P  </u> /// | TAKING WITHOUT ACCESS ALONG PROPERTY LINES |        |
| _____                | TAKING WITH ACCESS                         |        |
| (P)                  | PERMANENT EASEMENT                         |        |
| (T)                  | TEMPORARY EASEMENT                         |        |

**LEGEND**

|                         |                 |
|-------------------------|-----------------|
| -----CONST. EASE-----   | CONST. EASEMENT |
| -----SR-----SR-----     | SLOPE RIGHTS    |
| -----P-----P-----       | PROPERTY LINE   |
| -----Δ-----Δ-----Δ----- | TOP OF CUT      |
| -----○-----○-----○----- | TOE OF SLOPE    |

APPROVED Thomas P. Mayo DATE 7-21-81  
CHIEF OF PLANS & TITLES

PROJECT ELMORE  
NO. BHS 0241(8)S  
SHEET 4 OF   

ROW

- TEMPORARY TRAFFIC SIGNAL NOTES.
1. THE CONTRACTOR SHALL INSURE THAT THE SIGNAL INSTALLATION CONFORMS TO THE MANUAL OF TRAFFIC CONTROL DEVICES.
  2. THE TRAFFIC SIGNAL LAYOUT SHOWN IS APPROXIMATE. THE CONTRACTOR SHALL SUBMIT THE POLE LAYOUT AND DESIGN FOR REVIEW PRIOR TO CONSTRUCTION.
  3. SIGNAL TIMING-TIMING ADJUSTMENTS REQUESTED BY THE RESIDENT ENGINEER SHALL BE ACCOMPLISHED WITHIN A 24 HOUR PERIOD AND PAYMENT SHALL BE SUBSIDIARY TO ITEM 637.10. THE ALL RED CLEARANCE INTERVAL IS BASED ON AN ASSUMED SPEED OF 25 MPH. THE RESIDENT ENGINEER SHALL MAKE SEVERAL TRIAL RUNS TO DETERMINE THE PROPER ALL RED CLEARANCE INTERVAL.
  4. SIGNAL FACES SHALL CONSIST OF 12" LENSES.
  5. THE BOTTOM OF THE HOUSING OF A SIGNAL FACE SUSPENDED OVER A ROADWAY SHALL BE NOT LESS THAN 16' FEET NOR MORE THAN 19' FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY. THE BOTTOM OF A SIGNAL FACE NOT MOUNTED OVER A ROADWAY, SHALL NOT BE LESS THAN 8' FEET NOR MORE THAN 15' ABOVE THE SIDEWALK OR, IF NONE, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY. CAUTION SHOULD BE USED TO INSURE COMPLIANCE WITH THE HEIGHT REQUIREMENTS IN THE EVENT THE NEW APPROACH GRADES DIFFER SIGNIFICANTLY FROM THE OLD ROAD GRADE.
  6. SIGNAL FACES FOR ANY ONE APPROACH SHALL BE NOT LESS THAN 8' FEET APART MEASURED HORIZONTALLY BETWEEN CENTER OF FACES. ALL POST, SIGNS AND PAVEMENT MARKINGS SHALL BE CONSIDERED AS SUBSIDIARY TO ITEM 637.10.
  7. SIGNAL HEADS MAY BE HUNG ON A SPAN WIRE OR ON A CANTILEVER MAST ARM. AT LEAST ONE SIGNAL HEAD SHALL BE UNMISTAKABLY IN LINE WITH THE CENTER OF APPROACHING TRAFFIC AT ALL TIMES. THE SECOND SIGNAL HEAD MAY BE POST MOUNTED LOCATED AT A DISTANCE NO GREATER THAN 24" FROM THE CENTER OF THE APPROACH LANE WHEN THE STOP BAR IS 40' FROM THE SIGNAL HEAD. CONSULT THE MUTCD FOR ADDITIONAL INFORMATION CONCERNING SIGNAL PLACEMENT.
  8. A 400 WATT LUMINAIRE AND MAST ARM SHALL BE PROVIDED ON A POLE ON EACH APPROACH AT A MOUNTING HEIGHT OF AT LEAST 30' ABOVE ROADWAY CENTERLINE. THE INTENT IS TO LIGHT UP THE AREA AROUND THE SIGNAL HEADS AND STOP BAR FOR INCREASED VISIBILITY. THE RESIDENT ENGINEER SHALL DETERMINE THE ADEQUACY OF THE LIGHTING AND DIRECT CHANGES IF THE LIGHTING IS INSUFFICIENT.
  9. POLES SUPPORTING SPAN WIRES AND/OR MAST ARMS SHALL BE ADEQUATELY BRACED OR GUTED AND SHALL NOT BE PLACED SO AS TO CREATE A HAZARD TO THE TRAVELING PUBLIC.
  10. STOP BARS (24" REFLECTORIZED WHITE LINES) SHALL BE PLACED A MINIMUM OF 40' FROM CLOSEST SIGNAL HEAD AND SHALL BE ACCOMPANIED BY A "STOP HERE ON RED" SIGN. (SEE SHEET # FOR SIGN DETAIL AND LAYOUT).
  11. ONCE INSTALLED, SIGNAL HEAD SHOULD NOT SHOW BLANK INDICATIONS. THEY SHALL OPERATE IN THE FLASHING MODE OR BE COVERED WITH BLACK PLASTIC WHEN NOT OPERATING.
  12. AT T.H. #2, TEMPORARY SIGNAL POLES WITH SPAN WIRE ARE TO BE LOCATED SO THAT T.H. #2 BRANDED CAN SEE HEADS #1 AND PROCEED WITH PHASE A MOVEMENT.

Removal & Disposal of Existing Guard Rail

14+28 ~ 14+44 RT  
14+65 ~ 14+97 RT  
13+10 ~ 14+32 LT  
14+50 ~ 14+68 LT

Guard Rail, Heavy Duty Steel Beam w/ Wood Posts, Type II

13+57-14+32 LT  
13+825-14+52 RT  
14+52-14+64.5 LT  
14+70-15+12.5 RT

Crushed Stone Shoulders

15+70-16+50 LT

Breakaway Cable Terminal

13+32-13+57 LT  
13+64.5-13+89.5 RT  
14+64.5-14+89.5 LT  
15+12.5-15+37.5 RT

Construct Drive

12+35 RT  
15+70 LT  
15+07 LT

Construct Approach

13+22 RT

SURVEY DATA CURVE #1

Δ 23° 43' Lt  
D 7°  
R 818.51  
T 171.87  
L 338.81  
E 17.8

REV DATA CURVE #1

Δ 23° 43' Lt  
D 8°  
R 714.20  
T 150.38  
L 296.46  
E 15.62  
Bk 0.056 ft/ft

BM 6" MET DISC MORRISVILLE WTL  
10+43 ELEV. 1141.023

USGS BM 5th DISC  
12 HCB 1967  
ELEV. 1143

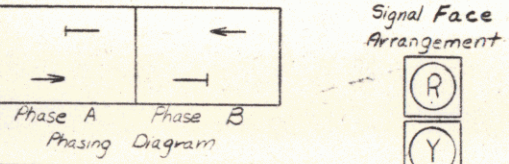
BEGIN R.O.W. PROJECT  
BHS 0241(8)S STA. 10+00 CL

END R.O.W. PROJECT  
BHS 0241(8)S REV. STA. 17+00 CL

Signal Timing Sequence

| Phase    | A               | B | Flash |
|----------|-----------------|---|-------|
| Interval | 1 2 3 4 5 6     |   |       |
| Seconds  | 12 3 5 12 3 5   |   |       |
| Signals  | 1 G Y R R R R Y |   |       |
|          | 2 R R R G Y R Y |   |       |

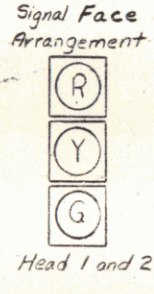
Cycle Length is 40 Seconds



DATUM

VERTICAL NSVD 1929

HORIZONTAL N/A



REV STA 11+00 BEGIN PROJECT  
CONSTRUCT SATISFACTORY BHS 0241(8)S  
APPROACH

REV STA 16+00 END PROJECT  
CONSTRUCT SATISFACTORY BHS 0241(8)S  
APPROACH

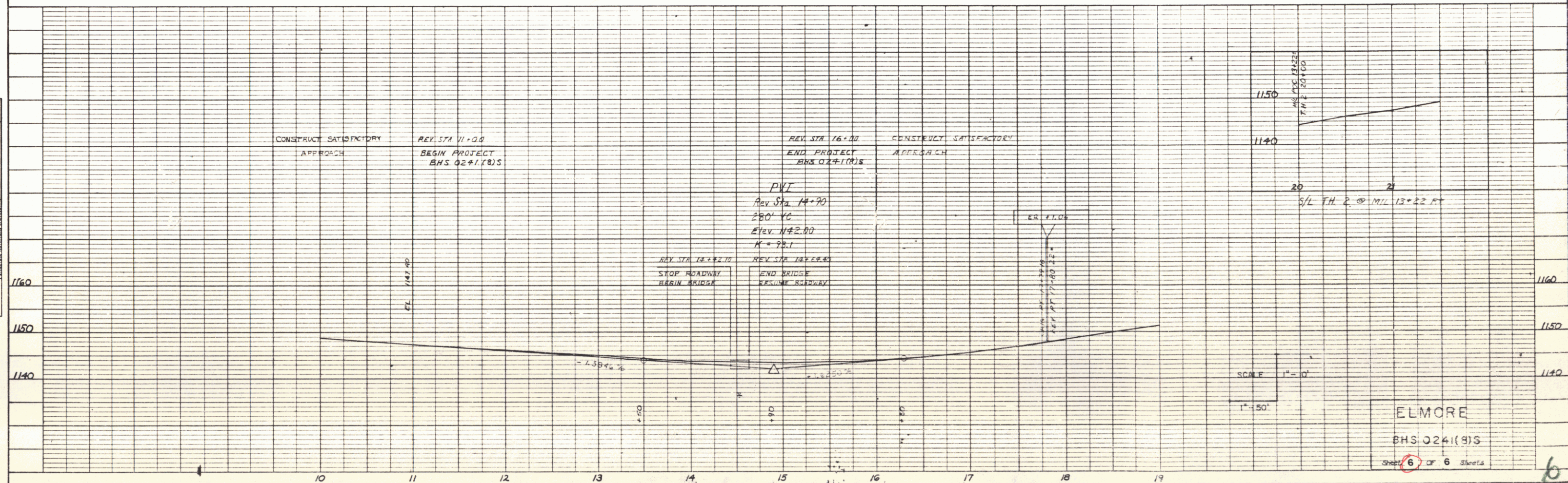
SCALE

0 50 FEET

SURVEYED BY R. CLARK DATE 6/79  
DRAWN BY T. SHERIDAN DATE 6/79  
TRACED BY J. EITMAN DATE 8/79  
ELMORE  
PROJ. BHS NO. 0241(8)S  
SHEET 5 OF 6

|      |         |  |
|------|---------|--|
| PLAN | DATE    |  |
|      | BY      |  |
|      | CHECKED |  |
|      | NOTED   |  |

|         |         |  |
|---------|---------|--|
| PROFILE | DATE    |  |
|         | BY      |  |
|         | CHECKED |  |
|         | NOTED   |  |



K&F PLATE 1, PLAN PROFILE

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