INDEX OF SHEETS

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

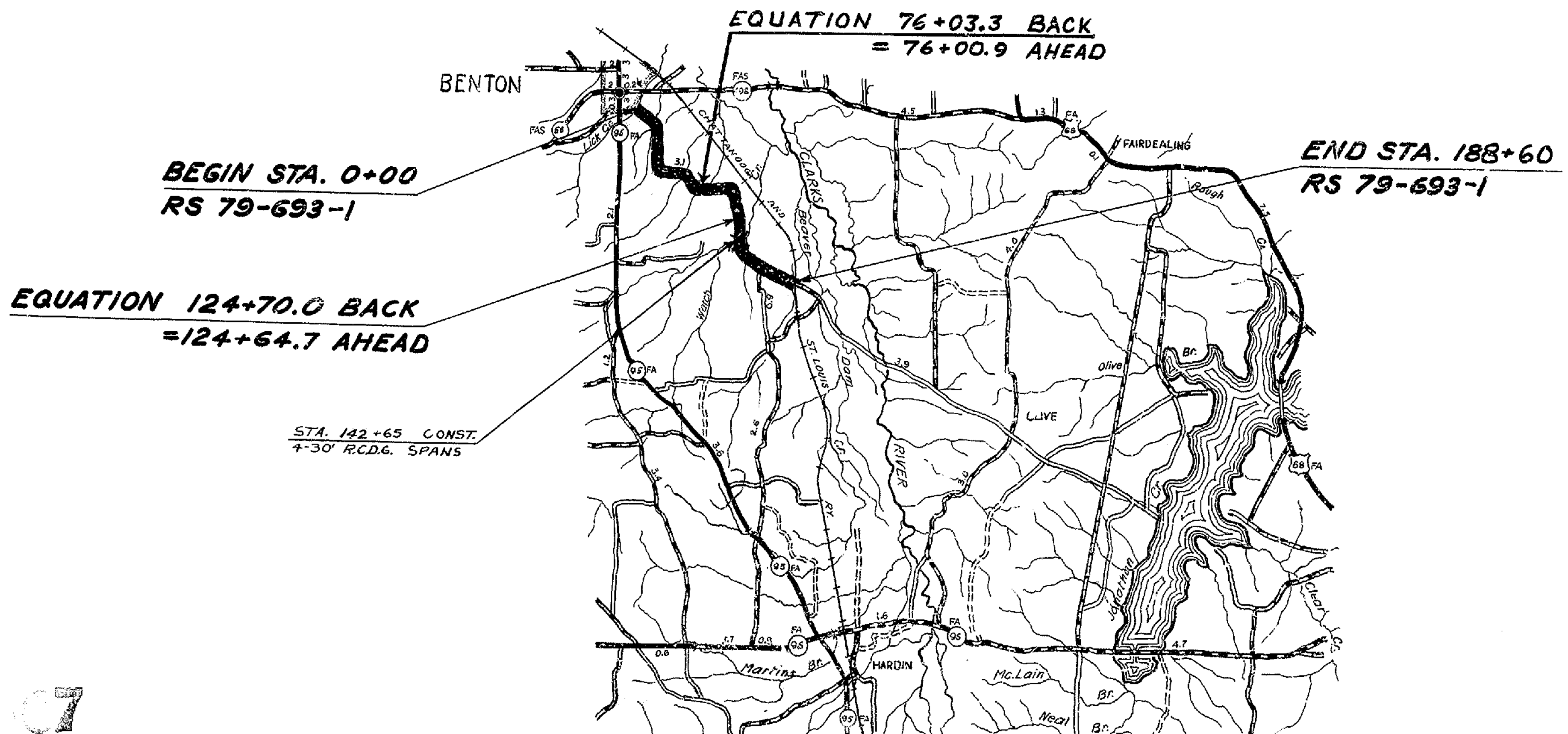
MARSHALL CO.
RS 79-693-1

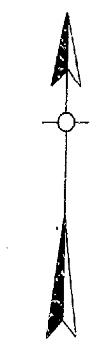
R.S. 79-693-1

COUNTY OF				FISCAL YEAR	SHEET No.	TOTAL SHEETS
MARSHALL				1954	1	52

SUBSECTIONS OF CONTRACT FOR MARSHALL CO. RSC 79-693-1

79-2693-1CA Grade, drain, and surface from Sta. 0+00 to Sta. 6+18.5.
79-693-1CB Grade, drain, and surface from Sta. 6+18.5 to Sta. 188+60.
79-693-1B1 Bridge (Dbl. 14'x8'x31' R.C. Culvert 0° skew) at Sta. 6+34.
79-693-1B2 Bridge (4-30' R.C.D.G. Spans-0° skew) at Sta. 142+65.





GRAPHIC SCALE IN MILES

1 0 1 2 3

LAYOUT MAP

CONVENTIONAL SIGNS

UNIMPROVED ROAD
GRADE AND DRAINED ROAD
SOIL SURFACE ROAD
METAL SURFACED ROAD
LOW TYPE BITUMINOUS ROAD
PAVED ROAD
COUNTY LINE
CORPORATE LIMITS
SURVEY LINE
PROPOSED RIGHT OF WAY
GRADE LINE
GROUND LINE
TRAVELED WAY
RAILROAD
FENCES (EXCEPT STONE & HEDGE)
STONE FENCE
HEDGE FENCE
TREES & STUMPS
PIPE LINE
TELEPHONE POLES
PIPE CULVERT
CONCRETE CULVERT & BRIDGE
LARGE STREAM
SMALL STREAM
BENCH MARKS
ROAD INTERSECTIONS
MARSH
BUILDINGS

GROSS LENGTH ____ LIN. FT. ____ MILES	GROSS LENGTH ____ LIN. FT. ____ MILES	GROSS LENGTH ____ LIN. FT. ____ MILES	GROSS LENGTH 18867.7 LIN. FT. 3.573 MILES
ADDED / DEDUCTED FOR EQUALITIES ____ LIN. FT.	ADDED / DEDUCTED FOR EQUALITIES ____ LIN. FT.	ADDED / DEDUCTED FOR EQUALITIES ____ LIN. FT.	ADDED FOR EQUALITIES 7.7 LIN. FT.
NET LENGTH ____ LIN. FT. ____ MILES	NET LENGTH ____ LIN. FT. ____ MILES	NET LENGTH ____ LIN. FT. ____ MILES	NET LENGTH 18867.7 LIN. FT. 3.573 MILES
NOT INCLUDED	NOT INCLUDED	NOT INCLUDED	NOT INCLUDED
RAILROAD CROSSINGS NO. ____ LIN. FT.	RAILROAD CROSSINGS NO. ____ LIN. FT.	RAILROAD CROSSINGS NO. ____ LIN. FT.	RAILROAD CROSSINGS NO. ____ LIN. FT.
BRIDGES ____ LIN. FT.	BRIDGES ____ LIN. FT.	BRIDGES ____ LIN. FT.	BRIDGES ____ LIN. FT.

R.S. 79-693-1

KENTUCKY DEPARTMENT OF HIGHWAYS
COUNTY OF *MARSHALL*
UNION HILL
ROAD
PROJECT No. *RS 79-693-1*
DATE *1954*

SURVEYED 1952 BY *BRIGHTON ENGINEERING CO.* CHIEF OF PARTY
SURVEY APPROVED 12/9 1954 BY ____ CHIEF LOCATING ENGINEER
PLAN CHECKED 12-7 1954 BY ____ CHIEF DRAFTSMAN
SURVEY AND PLAN APPROVED 12-9 1954 BY *M. F. Johnson* DIRECTOR OF DESIGN
SURVEY AND PLAN APPROVED 12/9 1954 BY ____

APPROVED 12/9 1954
BY: ____ COMMISSIONER OF RURAL HIGHWAYS
BY: ____ COMMISSIONER OF HIGHWAYS

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
RECOMMENDED FOR APPROVAL:
DISTRICT ENGINEER DATE
APPROVED:

SENT FOR FEDERAL APPROVAL
RECORD PLANS
CONSTRUCTION PLANS

REVIEWED BY ____ DIVISION OF CONSTRUCTION

PLANS TRACED BY *R. CHARLES*
PLANS COMPLETED BY
PLANS CHECKED BY
FINAL CHECK BY

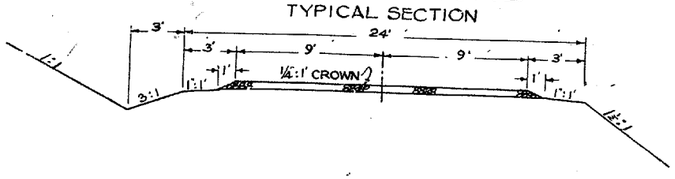
TYPICAL SECTION & SUMMARY OF QUANTITIES

PROJECT NO. R.S. 79-693
ROAD NAME UNION HILL

COUNTY OF		FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MARSHALL		1954	2	52

CLASS "C" ROAD

TYPICAL SECTION



TRAFFIC BOUND LIMESTONE

Crushed Limestone (Size No. 610) applied loose equal to 2" Compacted depth.

~~OR~~

~~TRAFFIC BOUND RIVER GRAVEL~~

~~River Gravel applied loose equal to 2" Compacted depth.~~

~~River Gravel shall conform to Specification 7.44.3-2 "River Gravel Maintenance Heater Course."~~

OR

TRAFFIC BOUND LOCAL BANK OR CREEK GRAVEL

Local Bank or Creek Gravel applied loose equal to 3½ Compacted depth.

NOTE: The Specifications for Local Bank or Creek Gravel are Modified for this project as follows:
Passing 2½" screen 100%
No change on smaller screens
Per cent of wear not more than 50%
No requirements for disintegration

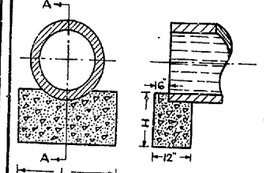
~~OR~~

~~TRAFFIC BOUND SLAG~~

~~Crushed Slag (Size No. 610) applied loose equal to 2" Compacted depth.~~

END ANCHORS FOR PIPE OUTLET

(CLASS "A" CONCRETE)



DIMENSION	INCHES								
PIPE SIZE	12	15	18	24	30	36	42	48	54
L	28	32	35	42	49	56	63	70	77
H	18	18	18	18	18	18	24	24	24
VOL. CU. YD.	0.13	0.15	0.16	0.19	0.23	0.26	0.39	0.43	0.48

NOTE: The unit price bid for Class "A" Concrete in Pipe Outlet Anchor shall include all forms, tools, labor, excavation, materials, etc. incidental to construction. Hand mixing and proportioning by volume will be permitted.

GENERAL NOTES

All curves ~~over 5°~~ to be banked and widened ~~one half~~ the requirements of Standards, or as directed. Superelevation standards of Bulletin No. 250-L when applicable, supersede and void conflicting requirements of Standard Drawing No. 3.11. Superelevation for special cases to be authorized by the District Engineer.

The contractor is not to order material for drainage structures until the quantities have been checked by the engineer.

For typical sections in solid rock cuts see Standard Drawing No. 3.11.

Drawings for Standard Warning Signs will be furnished by the District Engineer.

Entrance Pipe shall be constructed to a minimum length of 18'.

Where the inlet of a culvert pipe is in a cut section, and the ditch grade is one per cent or more, a suitable barrier to divert water from ditch into inlet of pipe is to be constructed as directed. No direct payment will be allowed for this work.

~~End Anchors for Corrugated Metal Pipe-Arches and Corrugated Metal Plate Pipe-Arches will not be required.~~

~~Corrugated Metal Pipe-Arches shall be Bituminous Coated.~~

~~Co.. ugated Metal Plate Pipe-Arches shall not be Bituminous Coated.~~

Alternate Types of Entrance Pipe: Standard Strength Reinforced Concrete or Corrugated Metal.

Alternate Types of Culvert Pipe: Standard Strength Reinforced Concrete; Bituminous Coated Corrugated Metal; Triple Strength Vitrified Clay; or Cast Iron.

~~Special Culvert Pipe shall be: Bituminous Coated Corrugated Metal.~~

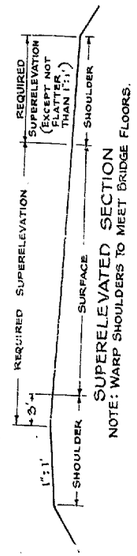
~~Alternate Types of Extra Strength Culvert Pipe: Extra Strength Reinforced Concrete; or Cast Iron.~~

The Standard Specifications for State and Federal Road and Bridge Construction, edition of 1945, as amended by the amendments published in Pamphlet No. 3 of Approved Provisions, Specifications and Amendments, with the following Provisions, Special Specifications and additional Amendments will apply on this project:

Special Specification No. 1-R: Bituminous Coated Corrugated Metal Pipe.
Special Specification No. 45-R: Surface Finish Exposed Concrete.
Special Specification No. 48-R-5: Rural Secondary Projects.
~~Special Specification No. 53: Corrugated Metal Pipe-Arch.~~

Emergency Provision No. 10: Steel Reinforcement.
Emergency Provision No. 13: Deferment or Cancellation.

Amendment No. 42 : Grading Requirements for Aggregates.



SUPERELEVATED SECTION
NOTE: WARP SHOULDERS TO MEET BRIDGE FLOORS.

BRIDGE AND CULVERT SUMMARY

~~FINAL ESTIMATE~~ / APPROX. ESTIMATE } ALL BID ITEM QUANTITIES INCLUDED IN GENERAL SUMMARY

SHEET	STATION	SIZE	SKEW	INLET ELEV.	INLET LENGTH	OUTLET ELEV.	OUTLET LENGTH	GRADE	DRAWING NO.	STANDARD OR SPECIAL	CHANNEL CHANGE	FILL ON CULVERT	CONCRETE CLASS "A"	CONCRETE CLASS "B"	CONCRETE CLASS "D"	STEEL REINFORCEMENT	STRUCTURE EXCAVATION COMMON	STRUCTURE EXCAVATION SOLID ROCK	14" R.C. PILING Furn.	14" R.C. PILING Drive	Removal of Existing Structure	Existing Structure
UNIT TO BID ON													CU. YD.			LB.	CU. YD.		Lin. Ft.	Lin. Ft.	EACH	
6	6+34	Dbl. 14'x8'x31'-0"	—	374.13	16'-0"	374.07	15'-0"	384.70		Spec.	See Road Plans	2.5'	152.6			21000					1	39"x12" Timber
6	22+77	10'x8'x33'0"	—	383.03	16'6"	382.97	16'6"	394.00		"		2.0'	90.0			9500						
8	72+22	Dbl. 8'x5'x36'0"	—	391.19	17'6"	390.77	18'6"	400.15		"		3.0'	80.0			9400						
8	79+55	8'x6'x32'0"	—	396.16	16'0"	395.83	16'0"	406.04		Std	See Road Plans	3.5'	43.0			4306						
9	103+00	5'x5'x40'0"	45° Lt.	390.20	20'0"	389.80	20'0"	397.71		"	See Road Plans	1.7'	36.8			3302						
9	118+53	6'x5'x62'0"	45° Lt.	394.85	33'6"	394.25	28'6"	405.52		"	See Road Plans	5.0'	51.8			4832						
10	142+65	4-30' R.C.D.G. Spans	—							Spec.			184.0		7.5	54000			780	723	1	44" Steel I Beam Spans
11	153+80	10'x6'x38'0"	30° Lt.	387.25	20'0"	386.75	18'0"	396.93		"		3.0'	74.4			6160						
12	186+50	10'x3'x33'0"	—	379.55	17'6"	379.30	15'6"	385.85		"		3.0'	53.3			4705						
TOTAL													765.9		7.5	117205			780	723	2	

SURFACING QUANTITIES

ITEM	UNIT	QUANTITY
LIMESTONE		
Crushed Limestone, Size 610	Ton	② 4320
~~**RIVER GRAVEL**~~		
~~River Gravel~~	~~Ton~~	②
LOCAL BANK OR CREEK GRAVEL		
Local Bank or Creek Gravel	① Ton	② 9110
~~**SLAG**~~		
~~Crushed Slag, Size 610~~	~~Ton~~	②

① Local Bank or Creek Gravel quantities may be determined by measurement in vehicle beds after the factor of conversion has been determined.

② Includes quantities for the following:
Additional aggregate for roadbed failures and for private entrances, to be used during construction operations, in an amount equivalent in each instance to 50 tons per mile of compacted limestone as determined by approved Department weight differentials.

2046 sq. yds. for curve widening, road approaches and intersections.

GENERAL SUMMARY

ITEM	UNIT	QUANTITY
Clearing And Grubbing	Mile	3.57
⑤ Earth Work	Mile	3.57
~~Ditching And Shouldering~~	~~Mile~~	
④ Class "A" Concrete	Cu. Yd.	769.0
~~Class "B" Concrete~~	~~Cu. Yd.~~	
Class "D" Concrete	Cu. Yd.	7.5
Steel Reinforcement	Lb.	117205
Project Monument	Each	2
15" Entrance Pipe	Lin. Ft.	800
18" Entrance Pipe	Lin. Ft.	240
24" Entrance Pipe	Lin. Ft.	48
18" Culvert Pipe	Lin. Ft.	596
24" Culvert Pipe	Lin. Ft.	148
~~36 Culvert Pipe~~	~~Lin. Ft.~~	
36 Culvert Pipe	Lin. Ft.	56
Furnishing 14" Reinforced Concrete Piling	Lin. Ft.	780
Driving 14" Reinforced Concrete Piling	Lin. Ft.	723
Removing pipe Headwalls	Each	17
Removal of existing structure	Each	2
③ Water	100 Gal.	4790
Slides	Cu. Yd.	1000
Removing Pipe	Lin. Ft.	425
Relaying Pipe	Lin. Ft.	200
Removing Masonry (Stone)	Cu. Yd.	10
Removing Masonry (Concrete)	Cu. Yd.	45

③ Water estimated at 10 Gals. per cu. yd. of common excavation used in embankment.

④ Includes 3.27 cu. yds. for Pipe Outlet Anchors; 765.9 cu. yds. from Bridge and Culvert Summary.

⑤ Total mileage for Earthwork is estimated to contain approximately 48051 cu. yds. including approximately

Revised Aug. 20, 1954

MARSHALL CO. R.S. 79-693
UNION HILL ROAD
SHEET 6 OF 52

STA. 5+85 EXISTING 40'x12' WOOD BRIDGE - REMOVE

STA. 22+72 EXISTING 10'x12' WOOD BRIDGE - REMOVE

STA. 0+00 Begin
R.S. 79-693

GEORGE LONG
BURNETT (WF)
P1

A.E. CROSS
(WF) ORA
P2

KENNETH R PEEK
(WF) EVANGELINE
P3

WOODROW TRIMMEL
(WF) CATHERINE (WF)
P4

CURT PHILLIPS
GERTIE (WF)
P5

OTHO COX
SINGLE
P6

SOLON WYATT
LIA MAE (WF)
P7

JOHN STROW
MARTHA (WF)
P8

REV. JOHN J. GOUGH
IONA (WF)
P9

BOB MACWATER
NINA (WF)
P10

DON NELSON
DORTHA (WF)
P11

WELDON NELSON
CASEILA NELSON
P# 9A

FRED & CHARLES THOMPSON
LILLY (WF) MARY JO (WF)
P13

PAUL D. CROSS
ALENE " (WF)
P# 12

EUGENE ANDERSON
VIRGINIA " (WF)
P# 12A

BM #1 - NAIL IN POWER POLE 50 FT. LEFT OF STA. 4+33. - ELEV. 381.72

BM #2 - NAIL IN ROOT 16" CEDER 48 FT. RT. STA. 14+59 - ELEV. 415.88

BM #3 - NAIL IN ROOT OF 12" OAK 55 FT. LEFT STA. 24+25. ELEV. 394.53

BM #3 16"x12" PIPE - REMOVE CONST. ENT. - 18" PIPE

COUNTY ROAD CONST. NEW APPROACH. (CONST. ENT. & 24'-18" PIPE)

Δ = 7°52' LT.
D = 2°00'
T = 1.37'
L = 3.93'

Δ = 37°04' RT.
D = 10°00'
T = 9.21
L = 3.70'

Δ = 58°00' RT.
D = 16°00'
T = 2.02'
L = 3.68'

HALF SUPERELEVATION USED ON THIS CURVE DUE TO INTERSECTION OF BIRCH STREET.

CONST. CHANNEL CHANGE

CONST. SMALL DITCH ON LT. STA. 22+60 TO 27+00

STA. 29+45
24'-15" R.C. PIPE WITH 2-9' CONC. HD. WLS. - REMOVE

FRED & CHAS. THOMPSON
LILLY (WF) MARY JO (WF)
P13

STA. 29+75
18'-4" WOODEN STRUCTURE
REMOVE - CONST. ENT - 18" PIPE.

18'-18" PIPE - REMOVE. CONST. ENT. & 18'-18" PIPE

16'-9" PIPE - REMOVE. CONST. ENT. & 18 18" PIPE

12'-15" PIPE REMOVE - CONST 18'-18"

15'-15" CONC. PIPE REMOVE - CONST 18'-18" ENT.

24'-18" CONC. PIPE, GOOD COND. REMOVE - CONST. 30'-18" ENT.

3'-18" CONC. PIPE - WALK. REMOVE - CONST. 6'-18'

18'-18" PIPE REMOVE & RELAY

24" CONC. PIPE

SHEET TOTALS
COM. 7117
EMB. 5931

83 COM.
2611 CHANNEL CHANGE
2694

2245 EMB.
449 SHR.
2694

1336 COM.

1113 EMB.
223 SHR.
1336

1241 COM.

1034 EMB.
207 SHR.
1241

10 COM.
322 CHANNEL CHANGE & BAL. EXC.
332

277 EMB.
55 SHR.
332

1514 COM.

1262 EMB
252 SHR
1514

0+00
7+50
14+04
21+80
22+38
36+86

+0.093 %
+7.647 %
-3.917 %
0.00 %
+2.79 %

200' V.C.
300' V.C.
550' V.C.
200' V.C.
200' V.C.

STA. 6+34 CONST. DBL. 14'-8" R.C. CULVERT.
STA. 22+77 CONST. 10'x8' R.C. CULVERT.
STA. 24+45 CONST. 18" PIPE

GRADE 384.51
℄ BIRCH ST.

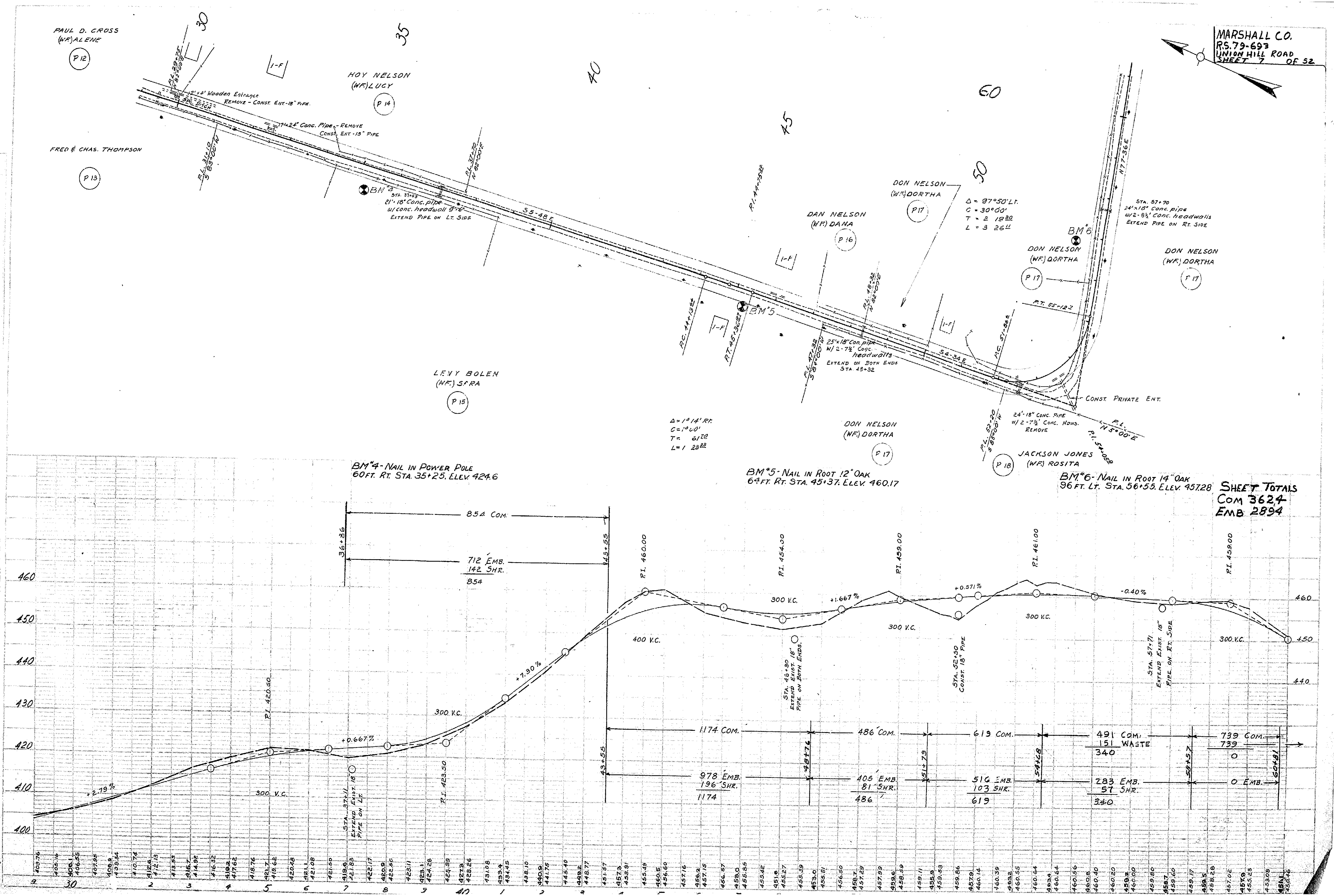
GRADE 410.30
℄ COUNTY ROAD TO RIGHT AT STA. 14+35

PROFILE

KENTUCKY
DEPARTMENT OF HIGHWAYS
COUNTY OF
MARSHALL
UNION HILL ROAD

PROJECT NO.	SECTION	DATE
RS 79-693		1954

SURVEYED APRIL 1952 BY BRIGHTON ENGINEERING CO.
J.W. Newman



MARSHALL CO.
R.S. 79-693
UNION HILL ROAD
SHEET 7 OF 52
PAUL D. CROSS
(WF.) ALENE
P 12
FRED & CHAS. THOMPSON
P 13
HOY NELSON
(WF.) LUCY
P 14
LEVY BOLEN
(WF.) SERA
P 15
DAN NELSON
(WF.) DANA
P 16
DON NELSON
(WF.) DORTHA
P 17
JACKSON JONES
(WF.) ROSITA
P 18
2'x3' Wooden Entrance
Remove - Const. Ent-18" Pipe
17'x24" Conc. Pipe - Remove
Const. Ent-15" Pipe
BM 4
Sta. 37+03
21'-18" Conc. pipe
w/ conc. headwall 9"E
Extend pipe on Lt. Side
S5-48 E
BM 5
25'x18" Con. pipe
w/ 2-7½' Conc. headwalls
Extend on Both Ends
Sta. 48+32
S4-34 E
Δ = 1°14' Rt.
C = 1°00'
T = 61.20
L = 1 23.33
Δ = 97°50' Lt.
C = 30°00'
T = 2 19.30
L = 3 26.11
BM 6
Sta. 57+70
24'x18" Conc. pipe
w/ 2-8½' Conc. headwalls
Extend pipe on Rt. Side
N 7-36 E
P.T. 55+12.3
Const. Private Ent.
24'-18" Conc. Pipe
w/ 2-7½' Conc. Hdws.
Remove
P.L. N 5°00' E
BM 4 - Nail in Power Pole
60 ft. Rt. Sta. 35+25. Elev. 424.6
BM 5 - Nail in Root 12" Oak
64 ft. Rt. Sta. 45+37. Elev. 460.17
BM 6 - Nail in Root 14" Oak
96 ft. Lt. Sta. 56+55. Elev. 457.28
Sheet Totals
Com 3624
Emb 2894
854 Com.
712 Emb.
142 Shr.
854
36+86
43+55
P.I. 420.50
P.I. 423.50
P.I. 460.00
P.I. 454.00
P.I. 459.00
P.I. 461.00
P.I. 459.00
+2.79%
+0.667%
+7.30%
+1.667%
+0.571%
-0.40%
300 V.C.
400 V.C.
Sta. 37+11 Extend Exist. 18" Pipe on Lt.
Sta. 48+30 Extend Exist. 18" Pipe on Both Ends
Sta. 52+50 Const. 18" Pipe
Sta. 57+71 Extend Exist. 18" Pipe on Rt. Side
1174 Com.
978 Emb.
196 Shr.
1174
486 Com.
405 Emb.
81 Shr.
486
619 Com.
516 Emb.
103 Shr.
619
491 Com.
151 Waste
340
283 Emb.
57 Shr.
340
739 Com.
739
0
0 Emb.
48+74
51+79
54+28
58+57
60+81
460
450
440
430
420
410
400

MARSHALL CO.
R.S. 79-693
UNION HILL ROAD
SHEET 8 OF 52

STA. 72+20 EXISTING 17x12 WOOD BRIDGE - REMOVE

STA. 79+55 EXISTING 14x12 WOOD BRIDGE - REMOVE

EQUATION 76+03 BACK = 76+02 AHEAD

DAN EDWARDS (WF) LUDORA (P 21)

CURLIN THOMPSON WF. ANNIE (P 27)

VINCENT EDWARDS (WF) ELIZABETH LEE (P 28)

MRS. PAT BOSWELL MORRIS (HUSBAND) (P 26)

DON NELSON (WF) DORA (P 17)

CLYDE PACE (WF) PAULINE (P 19)

DON NELSON (P 7)

WILL STRATTON WID. (P 20)

HARVEY RUDD (WF) ETTA (P 22)

CHAMPION FULKS (WF) LILLIAN (P 23)

L.C. FULKS (WF) PERLENE

ROBERT THOMPSON (WF) BETTY JEAN (P 25)

CLINT STORY (WF) OLLA MAE (P 29)

BM #7 - NAIL IN ROOT 24" OAK 70 FT. LEFT STA. 66+60. ELEV. 432.06

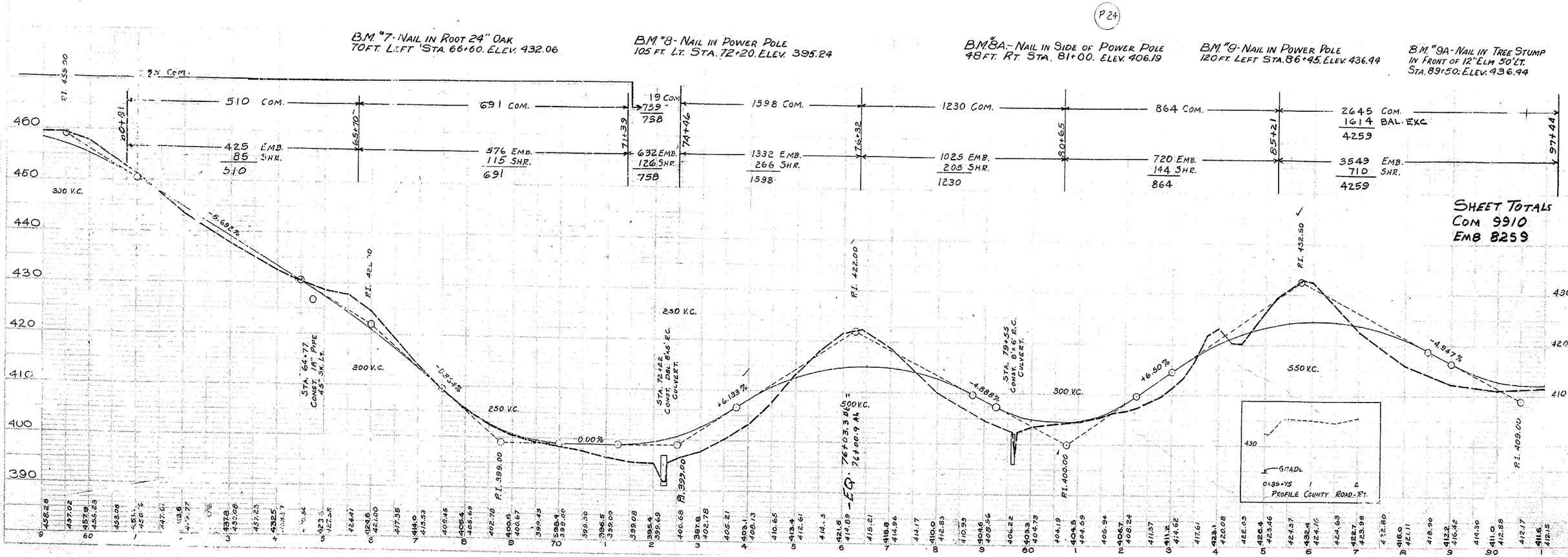
BM #8 - NAIL IN POWER POLE 105 FT. LT. STA. 72+20. ELEV. 395.24

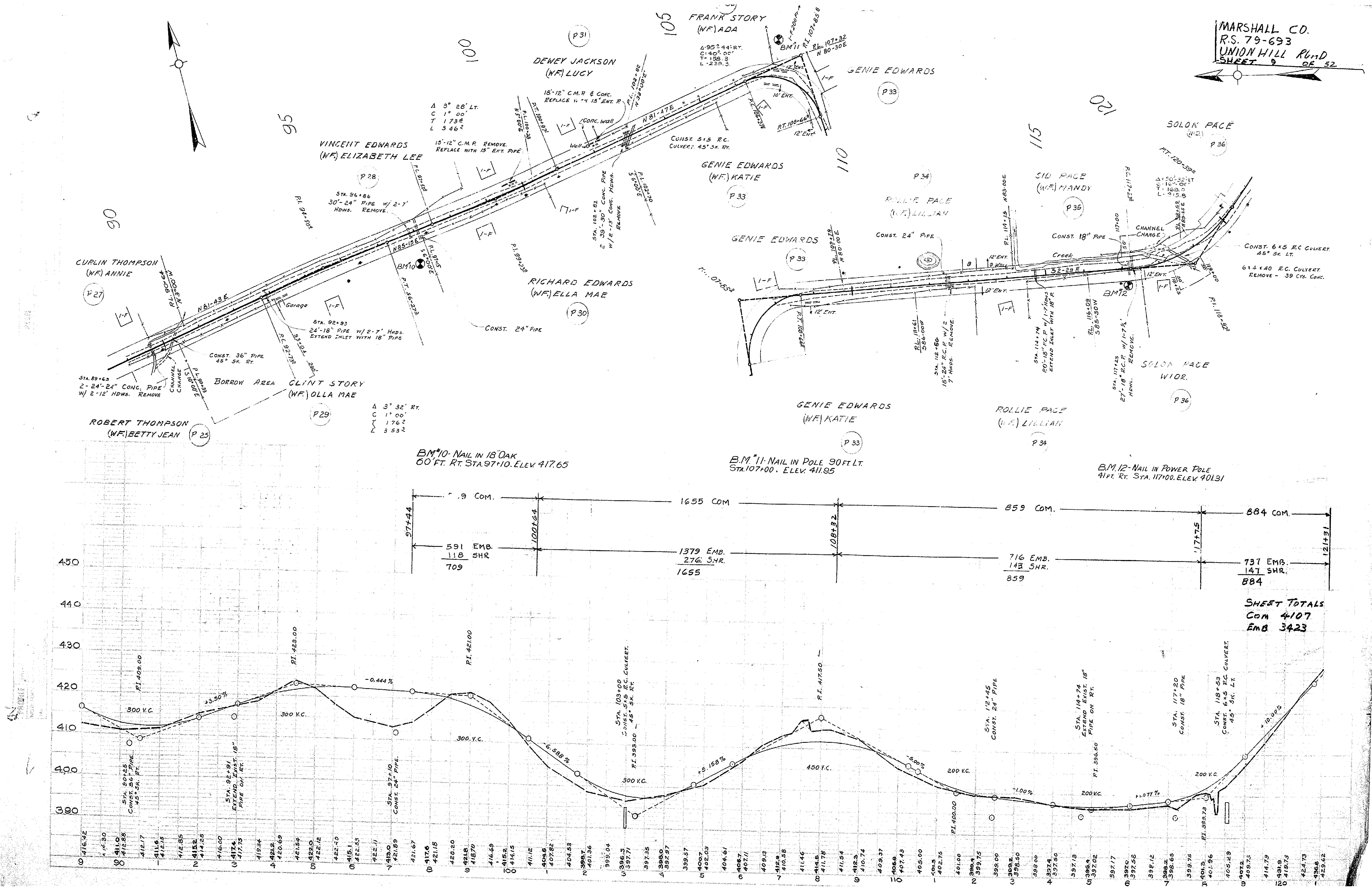
BM #8A - NAIL IN SIDE OF POWER POLE 48 FT. RT. STA. 81+00. ELEV. 406.19

BM #9 - NAIL IN POWER POLE 120 FT. LEFT STA. 86+95. ELEV. 436.44

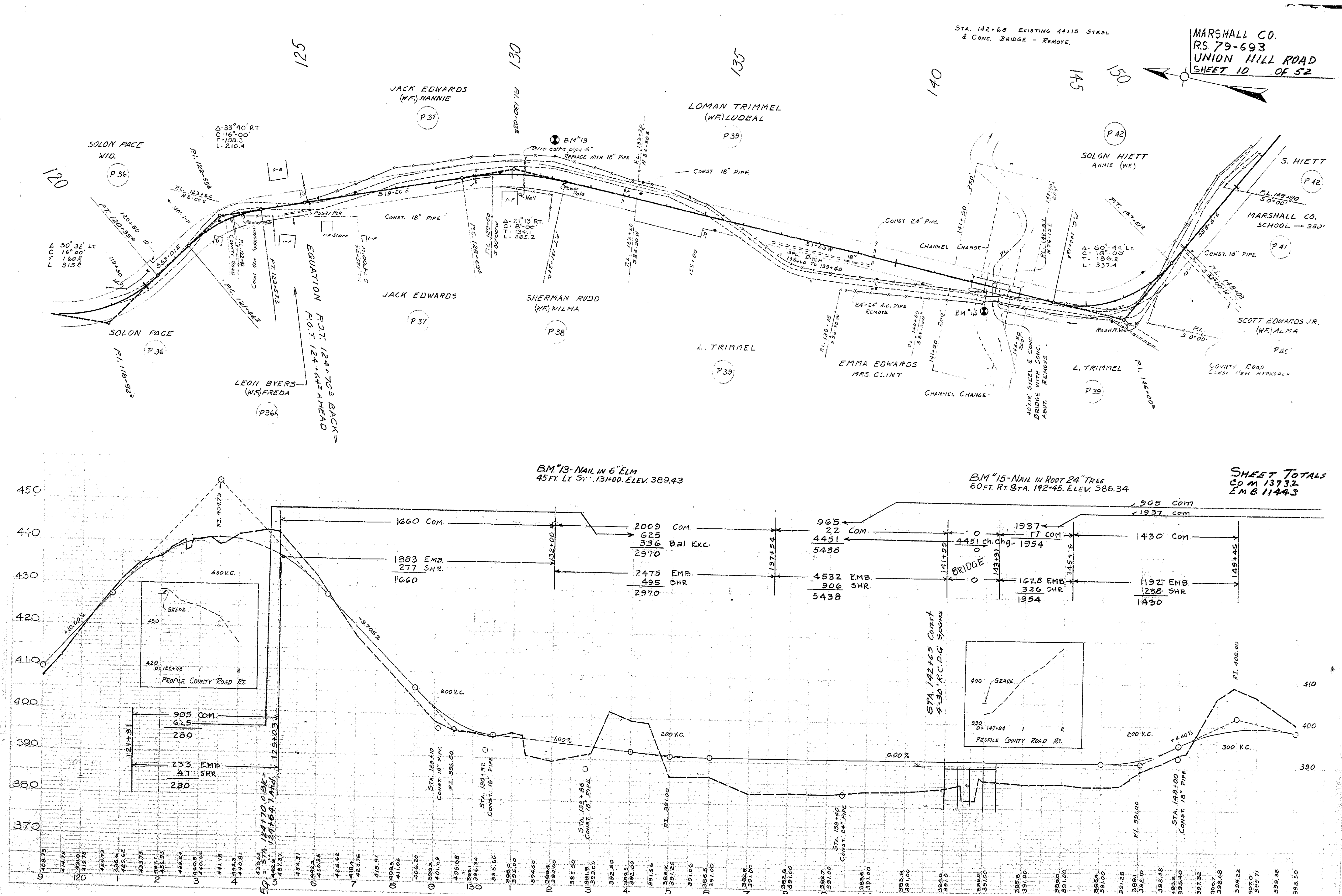
BM #9A - NAIL IN TREE STUMP IN FRONT OF 12" ELM 50' LT. STA. 89+50. ELEV. 436.94

SHEET TOTALS
COM 9910
EMB 8259

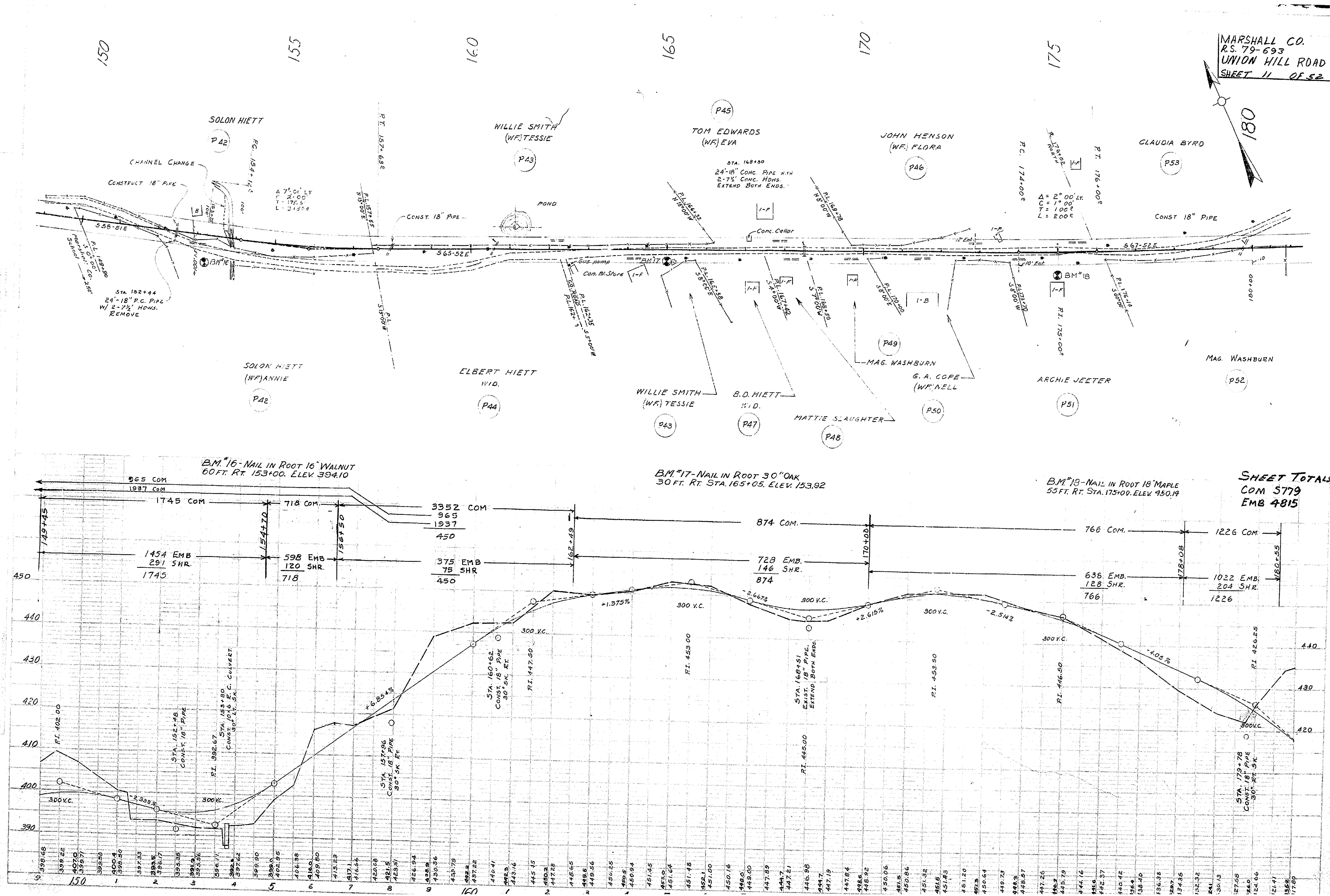




MARSHALL CO.
R.S. 79-693
UNION HILL ROAD
SHEET 9 OF 52
CURLIN THOMPSON (WF) ANNIE P 27
ROBERT THOMPSON (WF) BETTY JEAN P 25
VINCENT EDWARDS (WF) ELIZABETH LEE P 28
DEWEY JACKSON (WF) LUCY P 31
FRANK STORY (WF) ADA
CLINT STORY (WF) OLLA MAE P 29
RICHARD EDWARDS (WF) ELLA MAE P 30
GENIE EDWARDS (WF) KATIE P 33
GENIE EDWARDS P 33
ROLLIE PACE (WF) LILLIAN P 34
SID PACE (WF) MANDY P 35
SOLON PACE P 36
SOLON PACE WIDR. P 36
BORROW AREA
N81-43 E
N85-15 E
N81-47 E
N 80-30 E
S 32-29 E
BM 10
BM 11
BM 12
Δ 3° 28' LT. C 1° 00' T 173± L 346±
Δ 3° 32' RT. C 1° 00' T 176± L 353±
Δ 95° 44' RT. C 40° 00' T 158.8 L 239.3
STA. 89+63 2 - 24'-24" CONC. PIPE W/ 2-12' HDWS. REMOVE
CONST. 36" PIPE 45° SK. RT.
STA. 92+93 24'-18" PIPE W/ 2-7' HDS. EXTEND INLET WITH 18" PIPE
STA. 96+86 30'-24" PIPE W/ 2-7' HDWS. REMOVE
CONST. 24" PIPE
15'-12" C.M.P. REMOVE. REPLACE WITH 15" ENT. PIPE
18'-12" C.M.P. & CONC. REPLACE W. 15" ENT. P.
STA. 102+82 2 39'-30" CONC. PIPE W/ 2-13' HDWS. REMOVE
CONST. 5×5 R.C. CULVERT. 45° SK. RT.
CONST. 24" PIPE
CONST. 18" PIPE
CHANNEL CHANGE
CONST. 6×5 R.C. CULVERT 45° SK. LT.
6×4×40 R.C. CULVERT REMOVE - 39 CYS. CONC.
BM #10 - NAIL IN 18" OAK 60 FT. RT. STA. 97+10. ELEV. 417.65
B.M. #11 - NAIL IN POLE 90 FT LT. STA. 107+00. ELEV. 411.95
B.M. 12 - NAIL IN POWER POLE 41 FT. RT. STA. 117+00. ELEV. 401.31
1655 COM
859 COM.
884 COM.
591 EMB. 118 SHR 709
1379 EMB. 276 SHR. 1655
716 EMB. 143 SHR. 859
737 EMB. 147 SHR. 884
97+44
100+64
108+32
117+75
121+31
SHEET TOTALS
COM 4107
EMB 3423
P.I. 409.00
P.I. 423.00
P.I. 421.00
P.I. 393.00
P.I. 417.50
P.I. 396.50
P.I. 400.00
P.I. 399.73
+3.50%
-0.444%
-6.588%
+5.158%
-5.00%
-1.00%
+1.077%
+10.00%
300 V.C.
450 V.C.
200 V.C.
STA. 90+25 CONST. 36" PIPE 45° SK. RT.
STA. 92+91 EXTEND EXIST. 18" PIPE ON RT.
STA. 97+10 CONST. 24" PIPE.
STA. 103+00 CONST. 5×5 R.C. CULVERT. 45° SK. RT.
STA. 112+45 CONST. 24" PIPE
STA. 114+74 EXTEND EXIST. 18" PIPE ON RT.
STA. 117+20 CONST. 18" PIPE
STA. 118+53 CONST. 6×5 R.C. CULVERT 45° SK. LT.
450
440
430
420
410
400
390

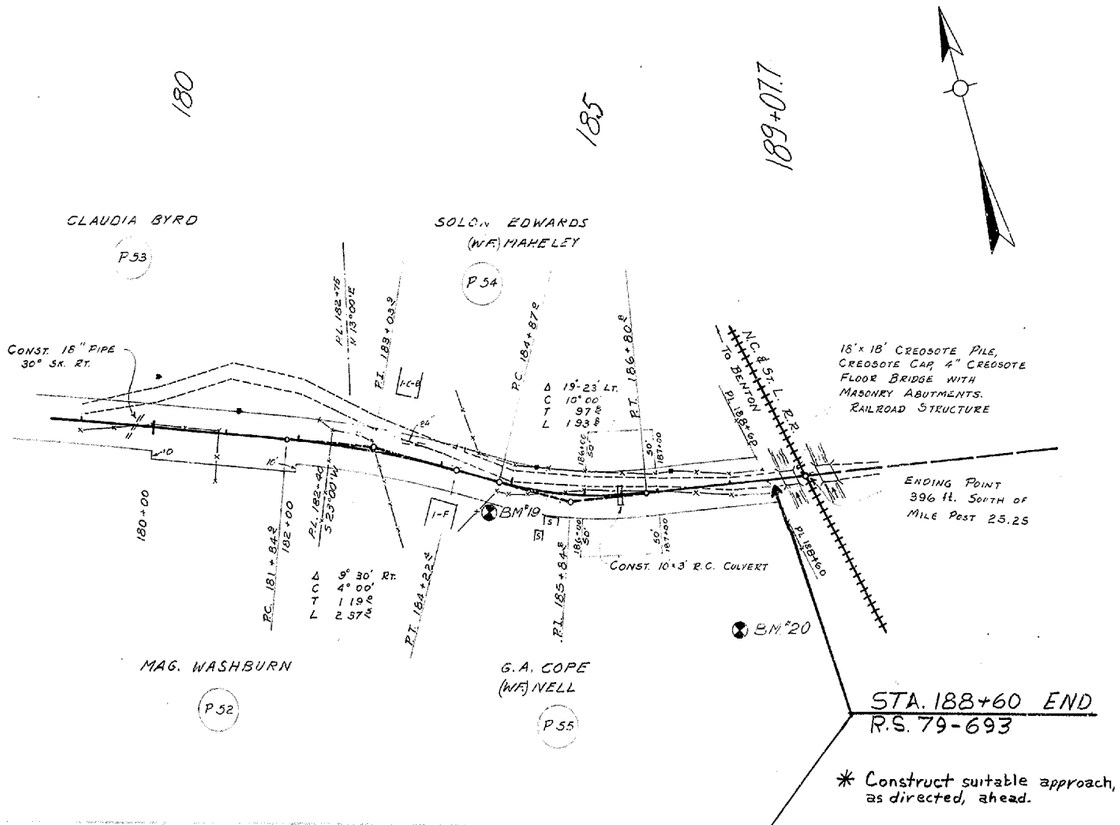


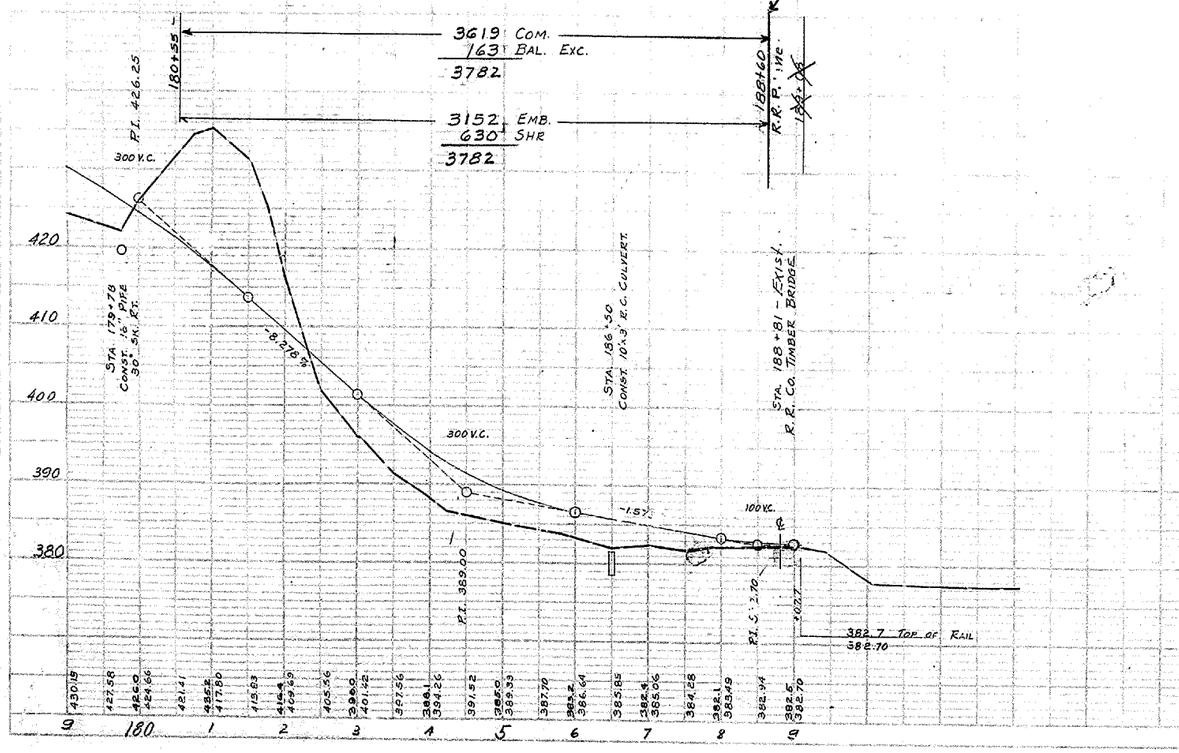
MARSHALL CO.
R.S. 79-693
UNION HILL ROAD
SHEET 10 OF 52
STA. 142+65 EXISTING 44x18 STEEL & CONC. BRIDGE - REMOVE.
JACK EDWARDS (W.F.) NANNIE
P 37
LOMAN TRIMMEL (W.F.) LUDEAL
P 39
SOLON PACE WID.
P 36
BM #13
Terra cotta pipe 6" REPLACE WITH 18" PIPE
CONST. 18" PIPE
SOLON HIETT ANNIE (W.F.)
P 42
S. HIETT
MARSHALL CO. SCHOOL → 250'
P 41
CONST. 18" PIPE
CONST 24" PIPE
CHANNEL CHANGE
EQUATION P.T. 124+70± BACK = P.O.T. 124+64± AHEAD
JACK EDWARDS
SHERMAN RUDD (W.F.) WILMA
P 38
L. TRIMMEL
EMMA EDWARDS MRS. CLINT
24"-24" R.C. PIPE REMOVE
BM #15
40'x12' STEEL & CONC. BRIDGE WITH CONC. ABUT. REMOVE
L. TRIMMEL
SCOTT EDWARDS JR. (W.F.) ALMA
P 40
COUNTY ROAD CONST. NEW APPROACH
SOLON PACE
LEON BYERS (W.F.) FREDA
P 36A
CHANNEL CHANGE
B.M. #13 - NAIL IN 6" ELM 45 FT. LT. STA. 131+00. ELEV. 389.43
B.M. #15 - NAIL IN ROOT 24" TREE 60 FT. RT. STA. 142+45. ELEV. 386.34
SHEET TOTALS COM 13732 EMB 11443
1660 COM.
1883 EMB.
277 SHR.
1660
2009 COM.
625
336 Bal Exc.
2970
2475 EMB.
495 SHR
2970
965
22 COM
4451
5438
4532 EMB.
906 SHR.
5438
4451 ch. chg.
BRIDGE
1937
17 COM
1954
1628 EMB
326 SHR
1954
1430 COM
1192 EMB.
238 SHR
1430
965 COM
1937 COM
905 COM
625
280
233 EMB
47 SHR
280
+10.00%
-9.705%
-1.00%
0.00%
+4.40%
550 V.C.
200 V.C.
300 V.C.
PROFILE COUNTY ROAD RT.
STA. 142+65 Const 4-30' R.C.D.G Spans
STA. 124+70.0 BK = STA. 124+64.7 Ahd



MARSHALL CO.
R.S. 79-693
UNION HILL ROAD
SHEET 11 OF 52
SOLON HIETT
CHANNEL CHANGE
CONSTRUCT 18" PIPE
STA. 152+44
24'-18" P.C. PIPE
W/ 2-7½' HDWS.
REMOVE
WILLIE SMITH
(WF.) TESSIE
POND
CONST. 18" PIPE
TOM EDWARDS
(WF.) EVA
STA. 168+50
24'-18" CONC. PIPE WITH
2-7½' CONC. HDWS.
EXTEND BOTH ENDS.
Conc. Cellar
JOHN HENSON
(WF.) FLORA
CLAUDIA BYRD
CONST 18" PIPE
Gas pump
Con. Bl. Store
SOLON HIETT
(WF.) ANNIE
ELBERT HIETT
WID.
WILLIE SMITH
(WF.) TESSIE
B.D. HIETT
WID.
MATTIE SLAUGHTER
MAG. WASHBURN
G. A. COPE
(WF.) NELL
ARCHIE JEETER
MAG. WASHBURN
B.M. #16 - NAIL IN ROOT 16" WALNUT
60 FT. RT. 153+00. ELEV. 394.10
B.M. #17 - NAIL IN ROOT 30" OAK
30 FT. RT. STA. 165+05. ELEV. 153.92
B.M. #18 - NAIL IN ROOT 18" MAPLE
55 FT. RT. STA. 175+00. ELEV. 450.14
SHEET TOTALS
COM 5779
EMB 4815
1745 COM
718 COM
3352 COM
965
1937
450
874 COM.
766 COM.
1226 COM.
1454 EMB
291 SHR.
1745
598 EMB
120 SHR.
718
375 EMB
75 SHR
450
728 EMB.
146 SHR.
874
638 EMB.
128 SHR.
766
1022 EMB.
204 SHR.
1226
300 V.C.
+1.375%
-2.667%
+2.615%
-2.514%
-4.05%
+6.854%

MARSHALL CO.
R.S. 79-693
UNION HILL ROAD
SHEET 12 OF 52





SHEET TOTALS
COM 3782
EMB 3152

MARSHALL CO.
RS. 79-693
UNION HILL ROAD
SHEET 13 OF 52

Sta. 0+00 Begin
RS. 79-693

Sta. 188+60 End
RS. 79-693

BENCH MARK SUMMARY

NO.	DESCRIPTION	LOCATION	ELEV.
1	NAIL IN POWER POLE	58 FT. LEFT. STA. 4+33	381.72
2	NAIL IN ROOT 16" CEDER	48 FT. RIGHT. STA. 14+59	415.88
3	NAIL IN ROOT 12" OAK	55 FT. LEFT. STA. 24+25	394.53
4	NAIL IN POWER POLE	60 FT. RIGHT. STA. 35+25	424.81
5	NAIL IN ROOT 12" OAK	64 FT. RIGHT. STA. 45+37	460.17
6	NAIL IN ROOT 14" OAK	96 FT. LEFT. STA. 56+55	457.28
7	NAIL IN ROOT 24" OAK	70 FT. LEFT. STA. 66+50	432.05
8	NAIL IN POWER POLE	105 FT. LEFT. STA. 72+25	395.24
8A	NAIL IN POWER POLE	48 FT. RIGHT. STA. 81+00	400.19
9	NAIL IN POWER POLE	120 FT. LEFT. STA. 86+45	436.14
9A	NAIL IN STUMP IN FRONT OF 12" ELM	50 FT. LEFT. STA. 89+50	438.44
10	NAIL IN 18" OAK	60 FT. RIGHT. STA. 97+10	417.65
11	NAIL IN POWER POLE	60 FT. LEFT. STA. 107+00	411.85
12	NAIL IN POWER POLE	41 FT. RIGHT. STA. 117+00	401.51
13	NAIL IN 6" ELM	45 FT. LEFT. STA. 131+00	389.45
14	THIS NO. NOT USED		
15	NAIL IN ROOT 24" TREE	60 FT. RIGHT. STA. 142+45	386.34
16	NAIL IN ROOT 18" WALNUT	60 FT. RIGHT. STA. 153+00	394.10
17	NAIL IN ROOT 30" OAK	30 FT. RIGHT. STA. 165+05	453.92
18	NAIL IN ROOT 18" MAPLE	57 FT. RIGHT. STA. 175+00	450.14
19	NAIL IN SIDE 19" SUGAR MAPLE	40 FT. RIGHT. STA. 184+00	384.33
20	NAIL IN POWER POLE	100 FT. RIGHT. STA. 189+00	382.35