INDEX OF SHEETS

SHEET NO. 1. TITLE PAGE
" " 2 TYPICAL CROSS-SECTION OF IMPROVEMENT DOUBLE TACK COAT OF REFINED TAR WITH PEASTONE SEAL ITEM 312 A
" " 3 QUANTITY SHEET (ITEMS)
4-5 QUANTITY SHEET (DRAINAGE)
6-15 EARTHWORK SHEETS
16-51 PLAN AND PROFILE SHEETS
52 PLAN AND DETAILS CULVERT AT STA. 507+65
53 PLAN AND DETAILS CULVERT AT STA. 521+15
54 PLAN AND DETAILS CULVERT AT STA. 537+18
55 PRELIMINARY INFORMATION FOR BRIDGE
56 SUPERSTRUCTURE PLAN AND DETAILS } BRIDGE AT STAS. 604+86.35 TO 605+27.65
57 SUBSTRUCTURE DETAILS
1 SHEET = 58-64 PLAN AND DETAILS CULVERT AT STA. 627+18
77 STANDARD STRUCTURE SHEET S45-45 (PLANK GUARD RAIL)
78 STANDARD STRUCTURE SHEET S46-45 (DRAINAGE AND MARKERS)
79 STANDARD STRUCTURE SHEET S47-45 (P.C. DROP INLET)
80 STANDARD STRUCTURE SHEET S48-46 (THREE CABLE GUARD RAIL)
81 STANDARD STRUCTURE SHEET S53-48 (P.C. R.C.P. DROP INLET)
82-296 CROSS SECTIONS
65 STANDARD CABLE RAIL FOR T AND I BEAM BRIDGES
66-67 REINFORCING STEEL SCHEDULE
1 SHEET = 68-69 BANKING AND WIDENING TABLES
70 TRANSITION TABLE
71 CONSTRUCTION DETAILS (DRAINAGE AND MARKERS)
72 CONSTRUCTION DETAILS CD2 (TYPICAL GRADING)
73 CONSTRUCTION DETAILS CD5 (CONCRETE BLOCK MANHOLE OR CATCH BASIN)
74 STANDARD STRUCTURE SHEET (THREE CABLE GUARD RAIL)
75 STANDARD STRUCTURE SHEET SB11 (BARRICADES, SIGNS & LIGHTS)
76 STANDARD STRUCTURE SHEET S40 (BARRICADES, SIGNS & LIGHTS)

PROJECT NAME & NUMBER	PAVT. TYPE	PAVT. AREA
BARNARD-BETHEL F 142(2)	DBLE TACK W PEASTONE SEAL	113,503 sq. yds.

RECORD PLANS

MATERIALS

PEASTONE - WHITE RIVER - BETHEL, VT.
TAR - BARRETT CO. - EDGEWATER, N.J.
R.C.P. - VT. CONCRETE PIPE CO. - WINDSOR, VT.
METAL PIPE - N.E. METAL PIPE CO. - BOSTON, MASS.
STEEL GUIDE POSTS - AMERICAN STEEL & WIRE CO.
GUARD RAIL CABLE - AMERICAN STEEL & WIRE CO. TORRINGTON CONN.
CONTRACTOR - S.V. ROSSI CONST. CO.
RESIDENT ENGINEER - B.C. FOSTER
ASST. ENGINEER - W.F. MURPHY
INSPECTORS - DESMARIS & HARPAN
RECORD PLANS - W.F. MURPHY

GRAVEL - WHITE RIVER - BETHEL, VT.
SAND - McCULLOUGH PIT - BETHEL, VT.
CEMENT - ALPHA CEMENT CO. - CEMENTON, N.Y.
REINFORCING STEEL - TRUSGON STEEL CO. - BOSTON DIV. - MASS. BURLINGTON
STRUCTURAL STEEL - VT. STRUCT. STEEL CO. VT.
GUARD RAIL PAINT - BRADLEY LAB. - BRATTLEBORO, VT.
CONTRACT DATED - NOV. 9, 1954
CONTRACT STARTED - NOV. 29, 1954
CONTRACT COMPLETED - MAY 29, 1957
CONTRACT ACCEPTED - MAY 29, 1957

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT

FEDERAL AID PROJECT

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

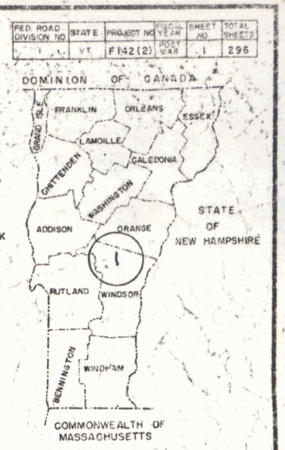
Pin# 99R932

TOWNS OF BARNARD-BETHEL
COUNTY OF WINDSOR
WOODSTOCK-BETHEL ROAD
VERMONT ROUTE 12

BEGINNING AT A POINT APPROXIMATELY 11,628 FEET NORTHWESTERLY OF THE BARNARD-POMFRET TOWN LINE AND EXTENDING NORTHWESTERLY ~~46,155.7~~ FEET (INCL. EXCEPTIONS STAS. 703+00-714+00, AND STAS. 796+24 - 797+08) 46,158.4 FEET

LENGTH OF ROADWAY	~~44,930.4~~ 44,933.1	FEET = 8.509 MILES
LENGTH OF BRIDGE	41.3	FEET = 0.008 MILE
LENGTH OF PROJECT (GOV'T PART.)	~~44,971.7~~ 44,974.4	FEET = 8.517 MILES
LENGTH OF (NON-GOV'T) BRIDGE STA. 796+24 TO STA. 797+08	84.0	FEET = 0.016 MILE
TOTAL LENGTH OF PROJECT (GOV'T AND NON-GOV'T PART.)	~~45,055.7~~ 45,058.4	FEET = 8.533 MILES

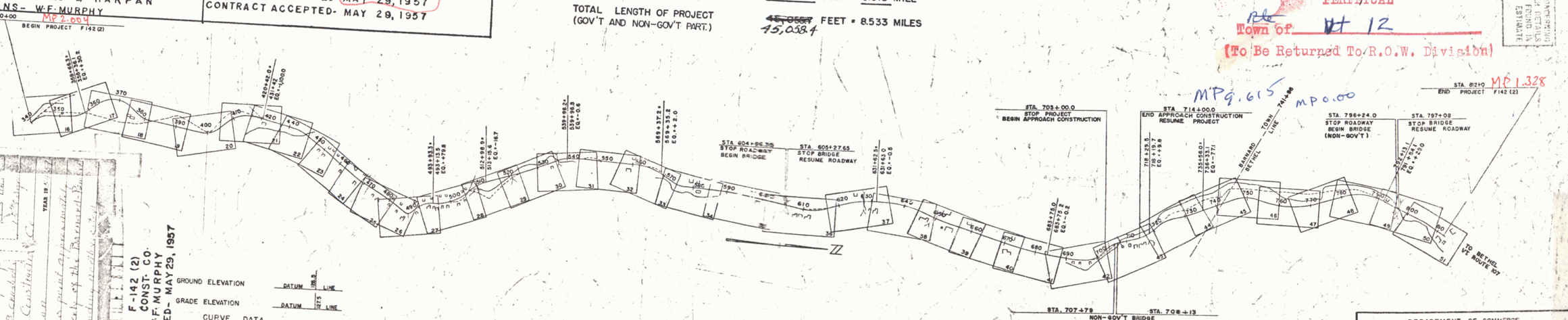
U.S.G.S. MAP REFERENCES
WOODSTOCK QUADRANGLE
W 72°-30'- N 43°-30'
RANDOLPH QUADRANGLE
W 72°-30'- N 43°-30'
SCALE 1" = 1 MILE



FED. ROAD DIVISION NO.	STATE	PROJECT NO.	FISCAL YEAR PREV. WAR	SHEET NO.	TOTAL SHEETS
1	VT	F142(2)		1	296

NOTE: RAIL PRINTED IN CONFORMING WITH QUANTITIES, DIMENSIONS OR OTHER DETAILS RELATIVE TO THIS PROJECT MAY BE FOUND IN SUMMER THE FIELD BOOKS OR THE ESTIMATE FILE.

RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL
Town of Vt 12
(To Be Returned To R.O.W. Division)



CONVENTIONAL SIGNS
COUNTY LINE
TOWN LINE
FENCE LINE
STONE WALL
UNFENCED
GUARD
TRAVE
RAILRO
RETAIN
CENTER
SURVEY
CULVER
DROP
TROLLE
POWER
TELEPH
TREES
HEDGE

BARNARD BETHEL F-142 (2)
CONTR. S.V. ROSSI CONST. CO.
RECORD PLANS - W.F. MURPHY
CONST. COMPLETED - MAY 29, 1957

GROUND ELEVATION DATUM LINE 195.8
GRADE ELEVATION DATUM LINE 187.5

CURVE DATA
DEFLECTION OF ANGLE ..... A
DEGREE OF CURVE ..... D.
RADIUS OF CURVE ..... R.
TANGENT DISTANCE ..... T.
LENGTH OF CURVE ..... L.
EXTERNAL DISTANCE ..... E.
POINT OF INTERSECTION ..... P.I.
POINT OF CURVE ..... P.C.
POINT OF TANGENT ..... P.T.
POINT ON TANGENT ..... P.O.T.
POINT ON SUB-TANGENT ..... P.O.S.T.

SCALES
TITLE ..... 1" = 1500'
TYPICAL ..... 1" = 2'
PLAN ..... 1" = 50'
PROFILE HORIZONTAL ..... 1" = 50'
VERTICAL ..... 1" = 10'
CROSS-SECTIONS ..... 1" = 5'

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THE PLANS AND THE STANDARD ROAD AND BRIDGE SPECIFICATIONS OF 1948, AS APPROVED JULY 25, 1949 BY THE BUREAU OF PUBLIC ROADS, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

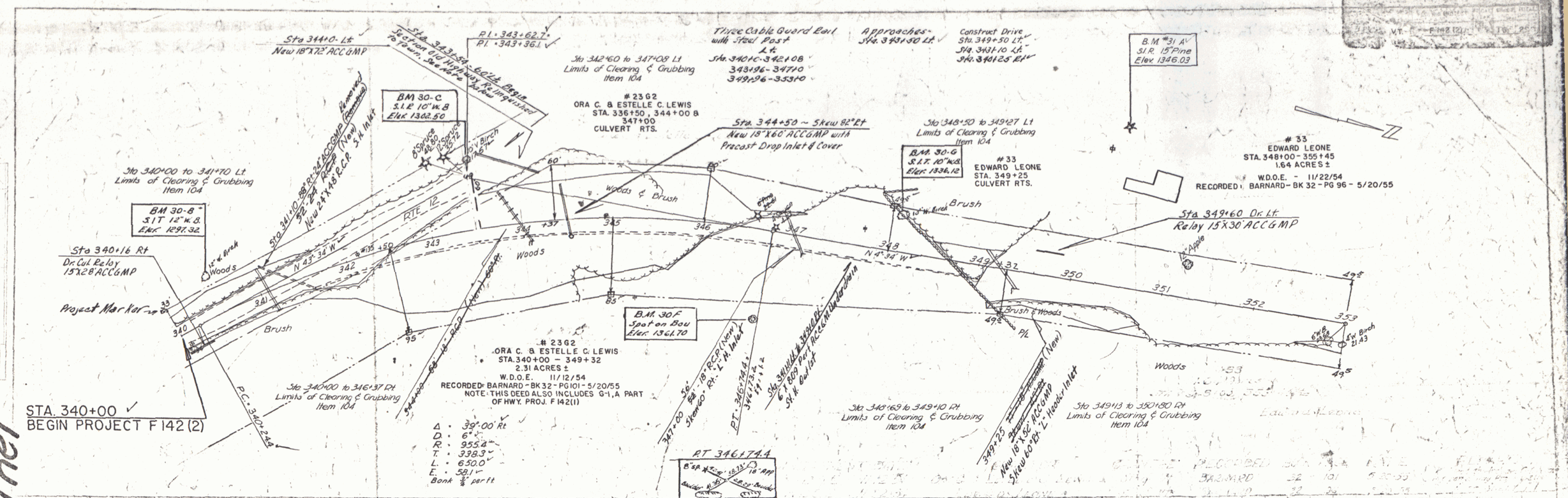
APPROVED T.F. Coates CONSTRUCTION ENGINEER	APPROVED A.T. Bilodeau BRIDGE ENGINEER	APPROVED J.R. Terkuile DISTRICT ENGINEER	APPROVED F.E. Parsons HIGHWAY ENGINEER	APPROVED W. Dargavel CHIEF ENGINEER
DATE OCTOBER 18, 1954	DATE OCTOBER 18, 1954	DATE OCTOBER 18, 1954	DATE OCTOBER 18, 1954	DATE OCTOBER 18, 1954

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
UNDER THE FOLLOWING APPROVAL
ENGINEER
APPROVED
DISTRICT ENGINEER DATE

PROJECT F NO. 142(2)
SHEET 1 OF SHEETS 296

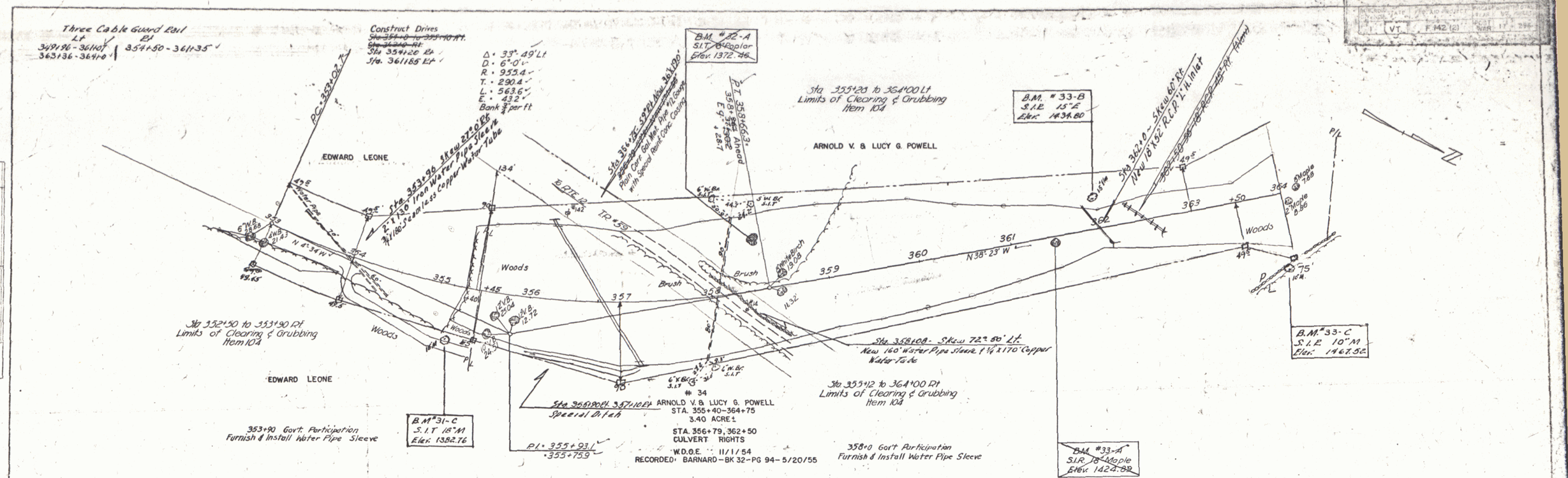
Barnard 53-54
Bethel



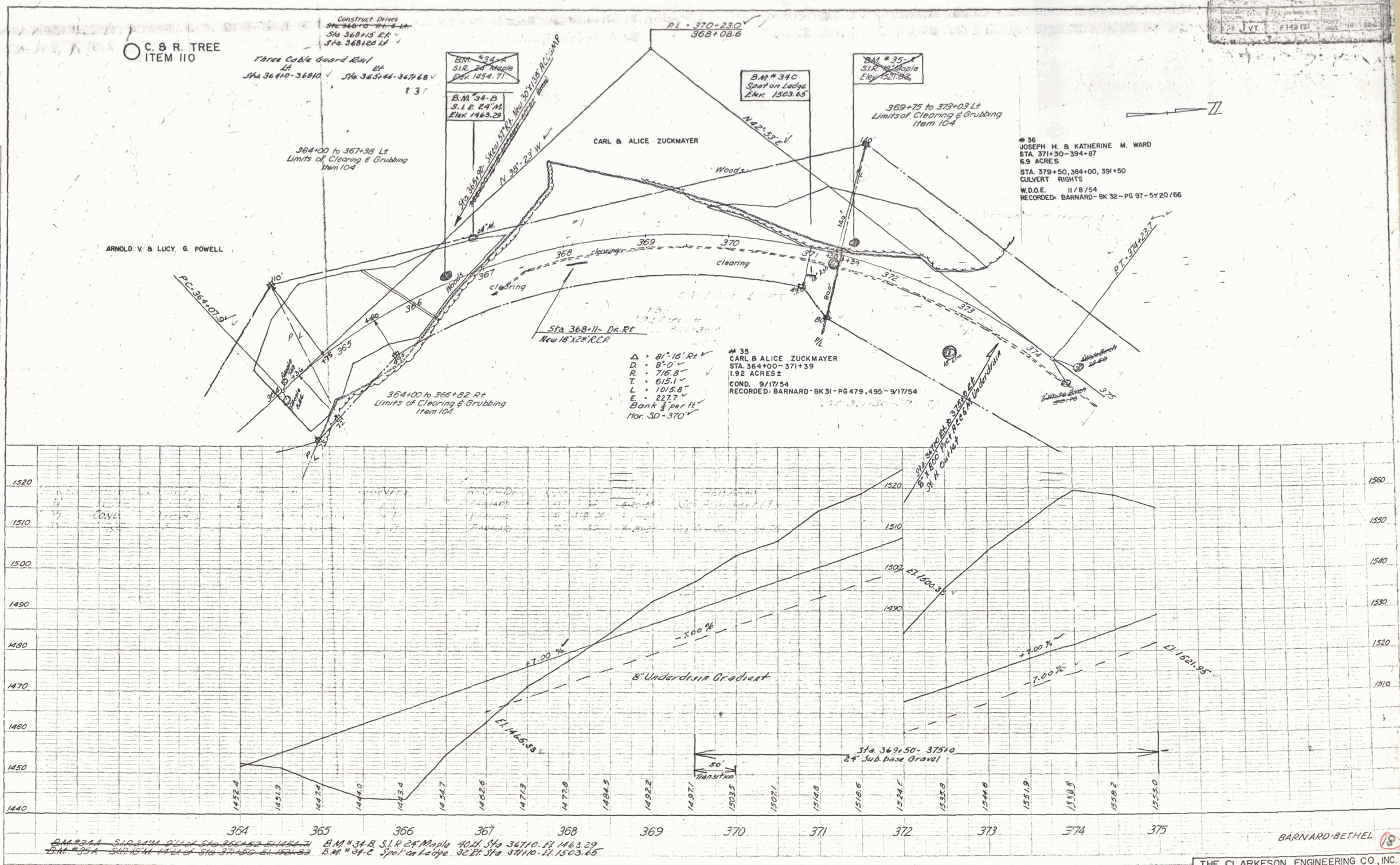
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

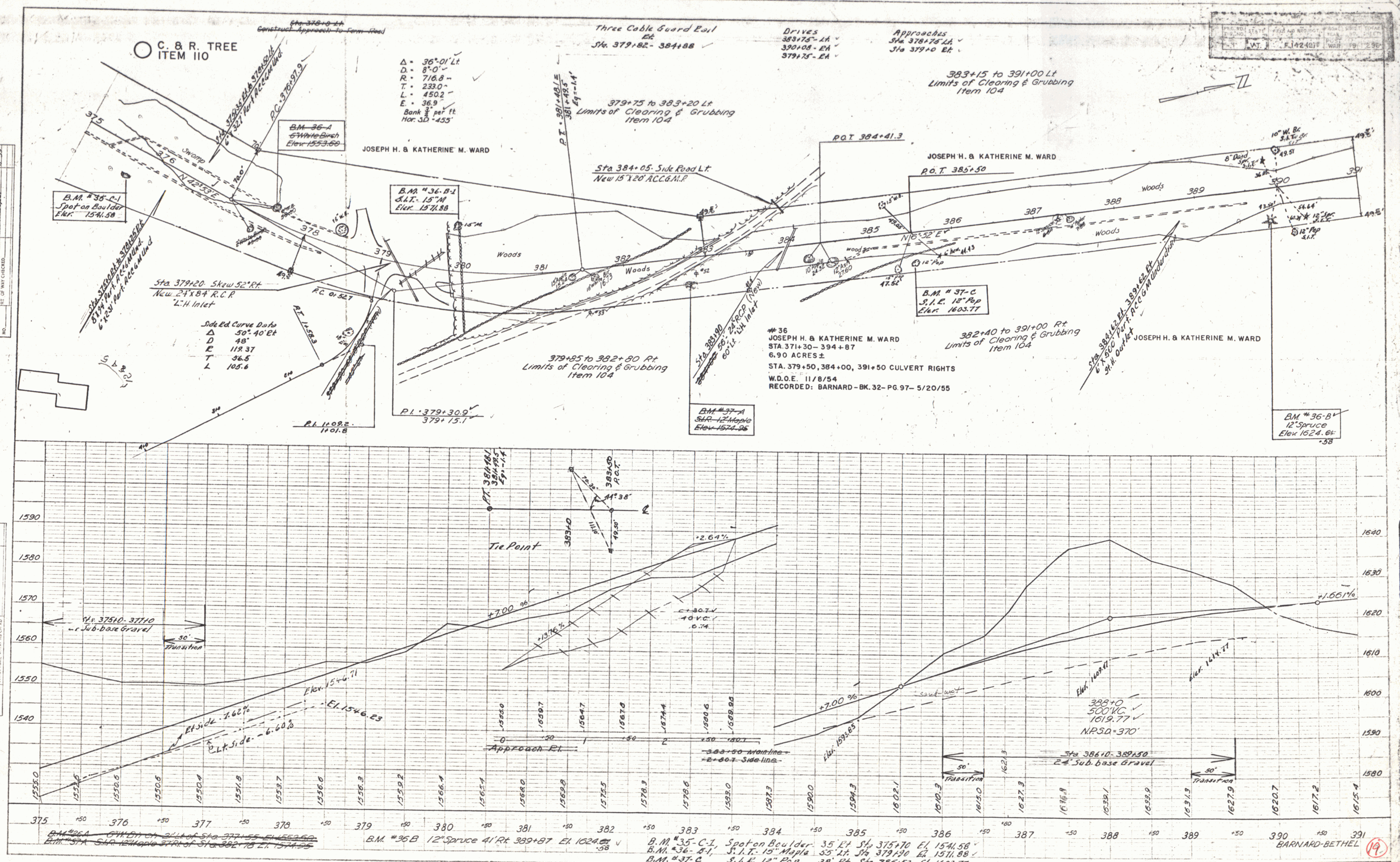
16

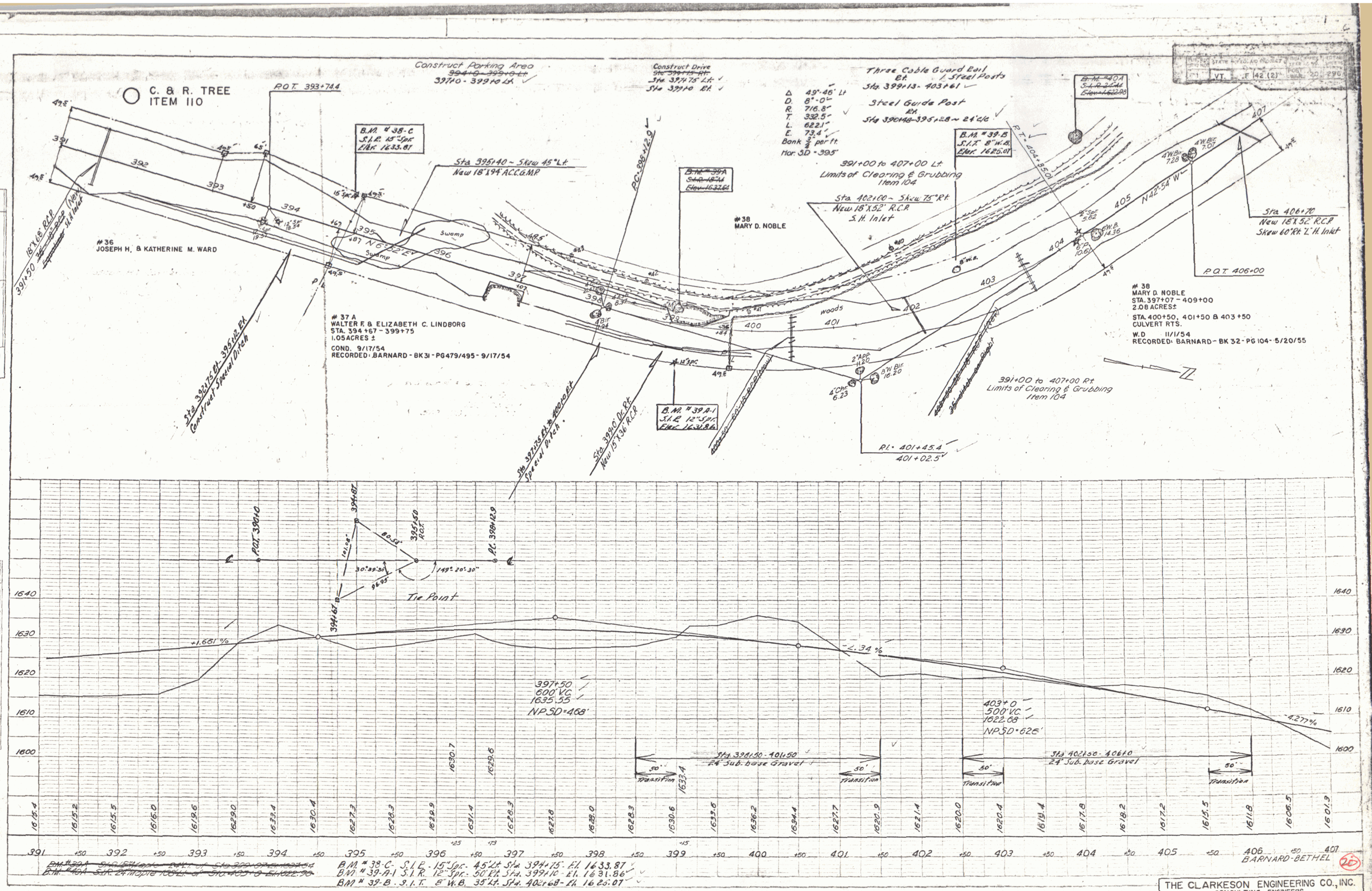
2

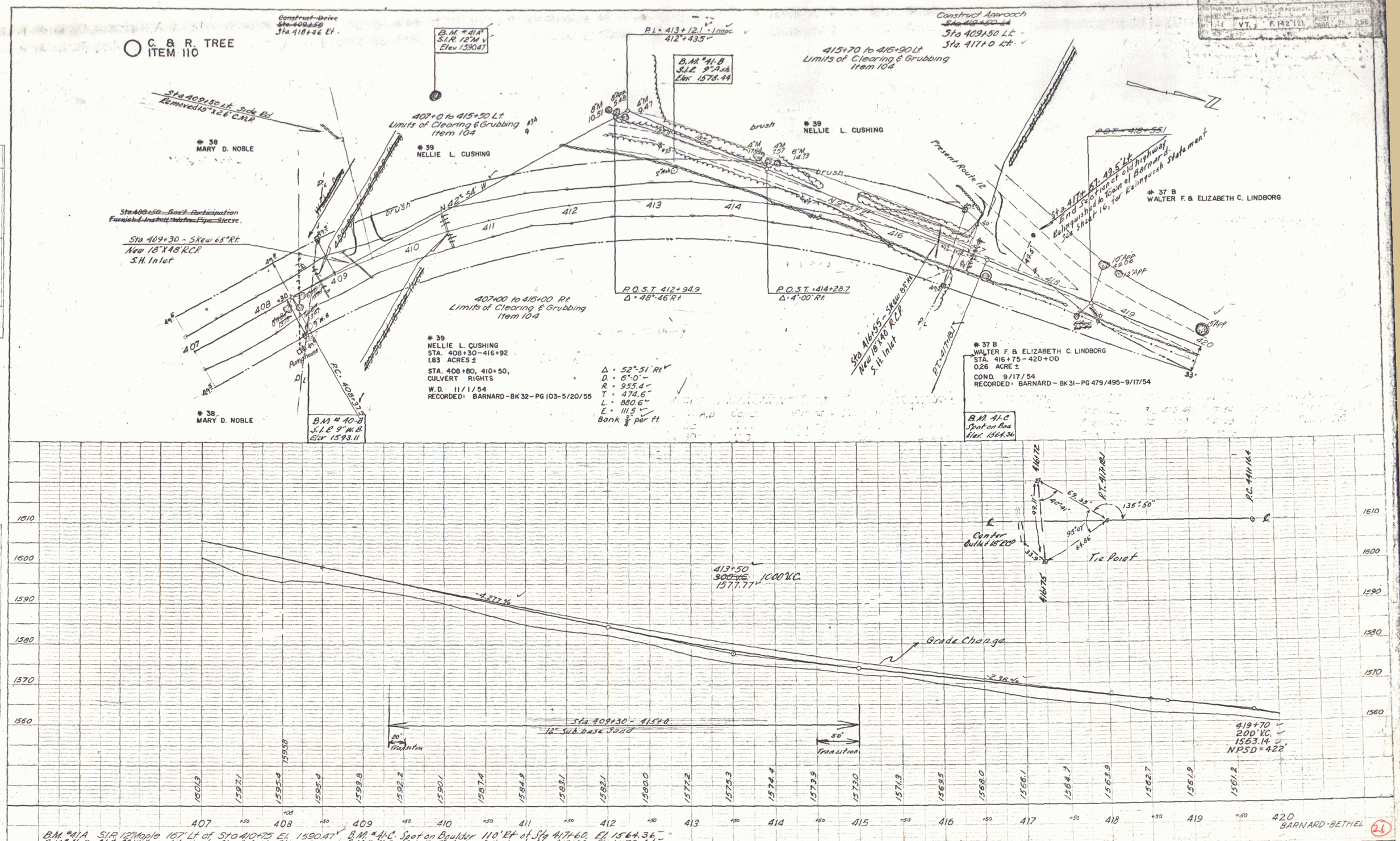

Three Cable Guard Rail
Lt
349+96 - 361+07
363+36 - 364+00
Rt
354+50 - 361+35
Construct Drives
Sta 354+20 Rt
Sta. 361+85 Lt
Δ = 33° 49' Lt
D = 6° 0'
R = 955.4
T = 290.4
L = 563.6
E = 43.2
Bank 3/4" per ft
PC = 353+02.7
Sta. 353+96 Skew 27° Rt
2-1-130' Iron Water Pipe Sleeve
3/4" 180 Seamless Copper Water Tube
EDWARD LEONE
N 4° 34' W
Woods
Brush
TP #59
B.M. #32-A
S.I.T. 6" Poplar
Elev. 1372.46
P.I. 358+66.3
Eq. 358+52.8
Sta 355+26 to 364+00 Lt
Limits of Clearing & Grubbing
Item 104
ARNOLD V. & LUCY G. POWELL
B.M. #33-B
S.I.R. 15" E
Elev. 1434.80
Sta 362+0 - Skew 60° Rt
New 18" X 52' R.C.P. 1 ft. Inlet
N 38° 23' W
Sta 352+50 to 353+90 Rt
Limits of Clearing & Grubbing
Item 104
Sta 358+08 - Skew 72° 50' Lt
New 160' Water Pipe Sleeve 1 1/4" x 170' Copper Water Tube
B.M. #33-C
S.I.R. 10" M
Elev. 1467.52
Sta 355+12 to 364+00 Rt
Limits of Clearing & Grubbing
Item 104
EDWARD LEONE
353+90 Gov't Participation
Furnish & Install Water Pipe Sleeve
B.M. #31-C
S.I.T. 18" M
Elev. 1382.76
Sta 356+90 Rt. 357+10 Rt
Special Ditch
34
ARNOLD V. & LUCY G. POWELL
STA. 355+40-364+75
3.40 ACRE±
STA. 356+79, 362+50
CULVERT RIGHTS
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK 32-PG 94-5/20/55
P.I. 355+93.1
355+75.9
358+0 Gov't Participation
Furnish & Install Water Pipe Sleeve
B.M. #33-A
S.I.R. 18" Maple
Elev. 1424.88
P.T. 346+77.4
344+73.2
Eq = 1.42
P.C. 353+02.7
69° 45'
156° 35' 30"
26° 10' 30"
P.C. to P.T. Tie Point
+7.00 %
+7.00 %
1440
1430
1420
1410
1400
1390
1380
1370
1360
1372.0
1375.3
1374.7
1373.2
1368.1
1363.3
1358.9
1356.9
1358.9
1363
1368.2
1372.6
1378.4
1380.3
1384.6
1389.8
1396.1
1405.1
1414.6
1424.2
1434.6
1443.6
1451.8
1452.8
1452.4
353 +50 354 +50 355 +50 356 +79 357 +50 358 +50 359 +50 360 +50 361 362 363 364
B.M. 31-C S.I.T. 18" Maple 60' Rt Sta 355+15 El. 1382.76
B.M. 33-B S.I.R. 15" Elm 34' Lt. Sta 361+96 El. 1434.60
B.M. #33-C S.I.R. 10" Maple 80' Rt Sta 363+92 - El 1467.52
BARNARD-BETHEL
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

3

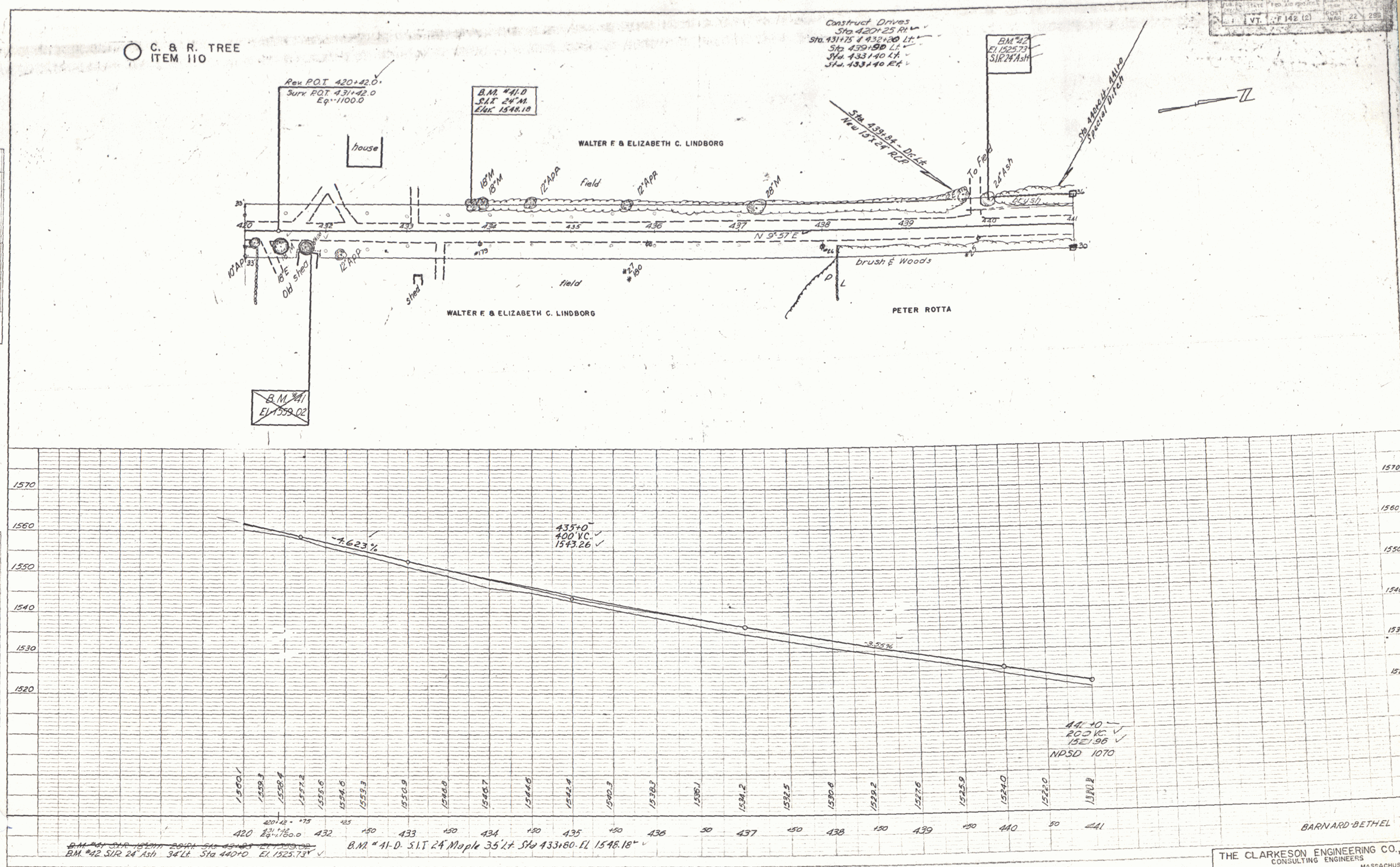

C. & R. TREE
ITEM 110
Construct Drives
~~Sta. 368+10 Rt. & Lt.~~
Sta. 368+15 Rt.
Sta. 368+20 Lt.
Three Cable Guard Rail
Lt. Sta. 364+0-368+0
Rt. Sta. 365+44-367+68
B.M. #34-A
S.I.R. 24" Maple
Elev. 1454.71
B.M. 34-B
S.I.R. 24" M.
Elev. 1463.29
B.M. #34C
Spot on Ledge
Elev. 1503.65
B.M. #35-A
S.I.R. 12" Maple
Elev. 1521.82
P.I. = 370+23.0
368+08.6
N 38°-23' W
N 42°-53' E
Sta. 365+40 Skew 57° Rt. New 30"X138' RC Comp
364+00 to 367+38 Lt.
Limits of Clearing & Grubbing
Item 104
369+75 to 373+03 Lt.
Limits of Clearing & Grubbing
Item 104
364+00 to 366+82 Rt.
Limits of Clearing & Grubbing
Item 104
CARL & ALICE ZUCKMAYER
ARNOLD V. & LUCY G. POWELL
Woods
clearing
P.C. = 364+07.9
P.T. = 374+23.7
Sta. 368+11 - Dr. Rt.
New 18"X28' R.C.P.
Δ = 81°-16' Rt.
D = 8°-0'
R = 716.8'
T = 615.1'
L = 1015.8'
E = 227.7'
Bank ¼" per ft.
Hor. SD - 370'
#35
CARL & ALICE ZUCKMAYER
STA. 364+00 - 371+39
1.92 ACRES ±
COND. 9/17/54
RECORDED: BARNARD - BK 31 - PG 479, 495 - 9/17/54
#36
JOSEPH H. & KATHERINE M. WARD
STA. 371+30 - 394+87
6.9 ACRES
STA. 379+50, 384+00, 391+50
CULVERT RIGHTS
W.D.O.E. 11/8/54
RECORDED: BARNARD - BK 32 - PG 97 - 5/20/66
Sta. 369+50 - 375+0
24" Sub-base Gravel
50' Transition
8" Underdrain Gradient
+7.00%
-7.00%
El. 1465.33
El. 1500.35
El. 1521.95
1452.4
1451.3
1447.4
1444.0
1443.4
1454.7
1462.6
1471.3
1477.9
1484.5
1492.2
1497.1
1503.5
1507.1
1514.8
1518.6
1524.6
1535.8
1544.6
1551.9
1558.2
1555.0
364
365
366
367
368
369
370
371
372
373
374
375
~~B.M. #34-A S.I.R. 24" M. 9' Lt. of Sta. 366+52 El. 1454.71~~
~~B.M. #35-A S.I.R. 18" M. 14' Lt. of Sta. 371+50 El. 1521.83~~
B.M. #34-B S.I.R. 24" Maple 40' Lt. Sta. 367+10 - El. 1463.29
B.M. #34-C Spot on Ledge 32' Rt. Sta. 371+10 - El. 1503.65
BARNARD-BETHEL
18
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON
MASSACHUSETTS
4


C. & R. TREE
ITEM 110
~~Sta. 378+0 Lt.~~
~~Construct Approach to Farm Road~~
Three Cable Guard Rail
Lt.
Sta. 379+82 - 384+88
Drives
383+75 - Lt.
390+08 - Rt.
379+75 - Rt.
Approaches
Sta. 378+75 Lt.
Sta. 379+0 Rt.
Δ = 36°-01' Lt
D. = 8°-0'
R. = 716.8
T. = 233.0
L. = 450.2
E. = 36.9
Bank ¾:1 per ft.
Hor. SD = 455'
383+15 to 391+00 Lt
Limits of Clearing & Grubbing
Item 104
379+75 to 383+20 Lt
Limits of Clearing & Grubbing
Item 104
P.T. = 381+48.1
381+49.5
Eq = -1.4'
~~Sta. 379+35 Rt. & 379+50 Lt.~~
~~6" 327' Perf. Accumulated~~
P.C. 376+97.9
~~B.M. 36-A~~
~~6" White Birch~~
~~Elev. 1553.60~~
JOSEPH H. & KATHERINE M. WARD
Swamp
N 42°53' E
B.M. # 35-C-1
Spot on Boulder
Elev. 1541.58
B.M. # 36-B-1
S.L.T. - 15" M
Elev. 1571.88
Sta. 384+05 Side Road Lt.
New 15" X 20' ACCGMP
P.O.T. 384+41.3
JOSEPH H. & KATHERINE M. WARD
P.O.T. 385+50
N 16°-52' E
Woods
Sta. 379+20 Skew 52° Rt.
New 24" X 84' R.C.P.
"L" H. Inlet
P.C. or 52.7
R.T. 1+58.3
Side Rd Curve Data
Δ 50°-40' Rt
D 48°
R 119.37
T 56.5
L 105.6
P.I. 1+09.2
1+01.8
379+85 to 382+80 Rt
Limits of Clearing & Grubbing
Item 104
P.I. 379+30.9
379+15.1
Sta. 383+90
56" - 24" RCP (New)
60' Lt. "H" Inlet
#36
JOSEPH H. & KATHERINE M. WARD
STA. 371+30 - 394+87
6.90 ACRES ±
STA. 379+50, 384+00, 391+50 CULVERT RIGHTS
W.D.O.E. 11/8/54
RECORDED: BARNARD - BK. 32 - PG. 97 - 5/20/55
382+40 to 391+00 Rt.
Limits of Clearing & Grubbing
Item 104
Sta. 384+62 Rt.
6" 500' Perf. ACCGM Underdrain
St. H. outlet
JOSEPH H. & KATHERINE M. WARD
B.M. # 37-C
S.I.E. 12" Pop
Elev. 1603.77
~~BM # 37-A~~
~~S.H.R. 12" Maple~~
~~Elev. 1574.95~~
BM # 36-B
12" Spruce
Elev. 1624.58
Tie Point
+2.64%
+7.00%
+1.376%
+7.00%
+1.661%
Elev. 1546.71
El. 1546.23
Rt. Side - 1.62%
Lt. Side - 6.60%
Elev. 1609.41
Elev. 1614.77
Elev. 1593.85
388+0
500' V.C.
1619.77
N.P.S.D. = 370'
Sta. 37510 - 37710
24" Sub-base Gravel
50' Transition
Sta. 38610 - 389+50
24" Sub-base Gravel
50' Transition
~~Approach Rt.~~
~~383+50 Mainline~~
~~2+607 Side line~~
~~BM # 26-A~~
~~6" Hickory~~
~~Elev. 1552.60~~
~~B.M. 37-A~~
~~S.H.R. 12" Maple~~
~~Elev. 1574.95~~
B.M. # 36-B 12" Spruce 41' Rt. 389+87 El. 1624.58
B.M. # 35-C-1, Spot on Boulder 35' Lt. Sta. 375+70 El. 1541.58
B.M. # 36-B-1, S.I.T. - 15" Maple 55' Lt. Sta. 379+90 El. 1571.88
B.M. # 37-C S.I.E. 12" Pop 38' Rt. Sta. 385+52 El. 1603.77
BARNARD-BETHEL
19
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS


C. & R. TREE
ITEM 110
P.O.T. 393+74.4
Construct Parking Area
~~394+15 - 399+10 Lt.~~
397+10 - 399+10 Lt.
Construct Drive
~~Sta. 399+15 Rt.~~
Sta. 397+75 Lt.
Sta. 397+10 Rt.
Three Cable Guard Rail
Rt.
Steel Posts
Sta. 399+13 - 403+61
Steel Guide Post
Rt.
Sta. 390+48 - 395+28 ~ 24' c/c
Δ 49°-46' Lt
D. 8°-0'
R. 716.8'
T. 332.5'
L. 622.1'
E. 73.4'
Bank 3/4" per ft.
Hor. SD = 395'
B.M. # 38-C
S.I.R. 15" Spr.
Elev. 1633.87
Sta. 395+40 ~ Skew 45° Lt.
New 18" X 94' ACCGMP
P.C. 398+12.9
B.M. # 39-A
Sta. 18+74
Elev. 1632.61
391+00 to 407+00 Lt.
Limits of Clearing & Grubbing
Item 104
Sta. 402+00 ~ Skew 75° Rt.
New 18" X 52' R.C.P.
S.H. Inlet
B.M. # 39-B
S.I.R. 8" W.B.
Elev. 1625.07
P.T. = 404+85.01
B.M. # 40-A
S.I.R. 24" Maple
Elev. 1622.98
Sta. 406+70
New 18" X 52' R.C.P.
Skew 60° Rt. "L" H. Inlet
P.O.T. 406+00
N 42°-54' W
18" X 68' R.C.P.
391+50
~~New 18" RCP (New)~~
~~Sta. 11.11 Inlet~~
36
JOSEPH H. & KATHERINE M. WARD
37 A
WALTER F. & ELIZABETH C. LINDBORG
STA. 394+67 - 399+75
1.05 ACRES ±
COND. 9/17/54
RECORDED: BARNARD - BK 31 - PG 479/495 - 9/17/54
38
MARY D. NOBLE
38
MARY D. NOBLE
STA. 397+07 - 409+00
2.08 ACRES ±
STA. 400+50, 401+50 & 403+50
CULVERT RTS.
W.D. 11/1/54
RECORDED: BARNARD - BK 32 - PG 104 - 5/20/55
Swamp
Swamp
Woods
Sta. 392+75 Rt. - 395+12 Rt.
Construct Special Ditch
Sta. 397+75 Rt. & 400+10 Rt.
Special Ditch.
Sta. 399+10 Dr. Rt.
New 15" X 36' R.C.P.
B.M. # 39-A-1
S.I.R. 12" Spr.
Elev. 1631.86
2" Apple 11.20
8" W. Bir 16.20
4" Chr. 6.23
P.I. = 401+45.4
401+02.5'
391+00 to 407+00 Rt.
Limits of Clearing & Grubbing
Item 104
P.O.T. 391+10
394+67
395+50 P.O.T.
P.C. 398+12.9
80.53'
101.08'
30°-39'-30"
96.95'
149°-20'-30"
Tie Point
+1.681 %
-2.34 %
-4.277 %
397+50
600' V.C.
1635.55
N.P.S.D. = 468'
403+0
500' V.C.
1622.08
N.P.S.D. = 625'
Sta. 398+50 - 401+50
24" Sub-base Gravel
Sta. 402+50 - 406+0
24" Sub-base Gravel
50' Transition
1640
1630
1620
1610
1600
1635.4 1635.2 1635.5 1636.0 1639.6 1629.0 1633.4 1630.4 1627.3 1628.3 1629.9 1631.4 1628.3 1628.8 1628.0 1628.3 1630.6 1633.4 1639.6 1636.2 1634.4 1627.7 1620.9 1621.4 1620.0 1620.4 1619.4 1617.8 1618.2 1617.2 1615.5 1611.8 1606.5 1601.9
391 +50 392 +50 393 +50 394 +50 395 +50 396 +50 397 +50 398 +50 399 +50 400 +50 401 +50 402 +50 403 +50 404 +50 405 +50 406 +50 407
~~B.M. # 39-A S.I.R. 24" Maple 1631.61 at Sta. 398+10 Elev. 1632.61~~
~~B.M. # 40-A S.I.R. 24" Maple 1622.98~~
B.M. # 38-C S.I.R. 15" Spr. 45' Lt. Sta. 394+75 El. 1633.87
B.M. # 39-A-1 S.I.R. 12" Spr. 50' Rt. Sta. 399+10 El. 1631.86
B.M. # 39-B S.I.T. 8" W.B. 35' Lt. Sta. 402+68 El. 1625.07
BARNARD-BETHEL
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS
VT. F 42 (2)
PLAN
PROFILE
Spaulding
Z.W. Espar
10-53
12-53
11-53
5-54


C. & R. TREE
ITEM 110
~~Construct Drive~~
~~Sta. 409+50~~
Sta. 418+36 Rt.
B.M. #41A
S.I.R. 12" M.
Elev 1590.47
Sta 409+50 Lt. Side Rd
Removed 15" X 26' C.M.P.
38
MARY D. NOBLE
407+0 to 415+50 Lt.
Limits of Clearing & Grubbing
Item 104
39
NELLIE L. CUSHING
~~Sta 409+50 Gov't Participation~~
~~Furnish & Install Water Pipe Sleeve.~~
Sta 409+30 ~ Skew 65° Rt.
New 18" X 48' R.C.P.
S.H. Inlet
N 42° 54' W
brush
407+00 to 416+00 Rt.
Limits of Clearing & Grubbing
Item 104
Pumphouse
P.C. 408+37.5
B.M. #40-B
S.I.R. 9" W.B.
Elev 1593.11
P.I. = 413+12.1
412+43.5
B.M. #41-B
S.I.R. 9" Ash.
Elev. 1578.44
P.O.S.T. 412+94.9
Δ = 48°-46' Rt.
P.O.S.T. 414+28.7
Δ = 4°-00' Rt.
Construct Approach
~~Sta 409+50 Lt.~~
Sta 409+50 Lt.
Sta. 417+0 Lt.
415+70 to 416+90 Lt
Limits of Clearing & Grubbing
Item 104
Present Route 12
Sta 416+55 ~ Skew 84° Rt.
New 18" X 40' R.C.P.
S.H. Inlet
P.T. 417+81
~~P.O.T. 418+55.1~~
Sta 417+57.49.5' Lt.
End Section of old highway
Relinquished to Town of Barnard.
See Sheet 16, for Relinquish Statement
37 B
WALTER F. & ELIZABETH C. LINDBORG
39
NELLIE L. CUSHING
STA. 408+30-416+92
1.83 ACRES ±
STA. 408+80, 410+50,
CULVERT RIGHTS
W.D. 11/1/54
RECORDED: BARNARD-BK 32-PG 103-5/20/55
Δ = 52°-51' Rt
D. = 6°-0'
R. = 955.4'
T. = 474.6'
L. = 880.6'
E. = 111.5'
Bank 2/3 per ft.
37 B
WALTER F. & ELIZABETH C. LINDBORG
STA. 416+75-420+00
0.26 ACRE ±
COND. 9/17/54
RECORDED: BARNARD-BK 31-PG 479/495-9/17/54
B.M. 41-C
Spot on Boa
Elev. 1564.36
P.C. 411.16.4
P.T. 417.81
Center
Outlet 18" CMP
Tie Point
413+50
~~300' VC.~~
1000' V.C.
1577.77
-4.277%
Grade Change
-2.36%
Sta. 409+30 - 415+0
12" Sub base Sand
20' Transition
50' Transition
419+70
200' V.C.
1563.14
NPSD = 422
1610
1600
1590
1580
1570
1560
1601.3
1597.1
1595.4
1595.4
1593.8
1592.2
1590.1
1587.4
1584.9
1583.1
1582.1
1580.0
1577.2
1575.3
1574.4
1573.9
1573.0
1571.3
1569.5
1568.0
1566.1
1564.1
1563.9
1562.7
1561.9
1561.2
407
408
409
410
411
412
413
414
415
416
417
418
419
420
BARNARD-BETHEL
B.M. #41A S.I.R. 12" Maple 167' Lt of Sta 410+75 El. 1590.47
B.M. #41-B S.I.R. 9" W.B. 40' Rt of Sta 408+38 El. 1593.11
B.M. #41-C. Spot on Boulder 110' Rt of Sta 417+60 El. 1564.36
B.M. #41-B S.I.R. 9" Ash 35' Lt of Sta 413+30 El. 1578.44
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON
MASSACHUSETTS
PLAN
PROFILE
Spaulding
Gauvest
Z.W. Esper
NOTE BOOK
CALCULATIONS CHECKED
ALIGNMENT CHECKED
RIGHT OF WAY CHECKED
MACHINE INSTALLATION (C.H.O.)
STRUCTURE INSTALLATION (C.H.O.)
VT.
F. 142 (2)
21
26
7

FUN. NO. | STATE | FED. AID PROJECT
VT. F 142 (2)
POST WAR 22 295



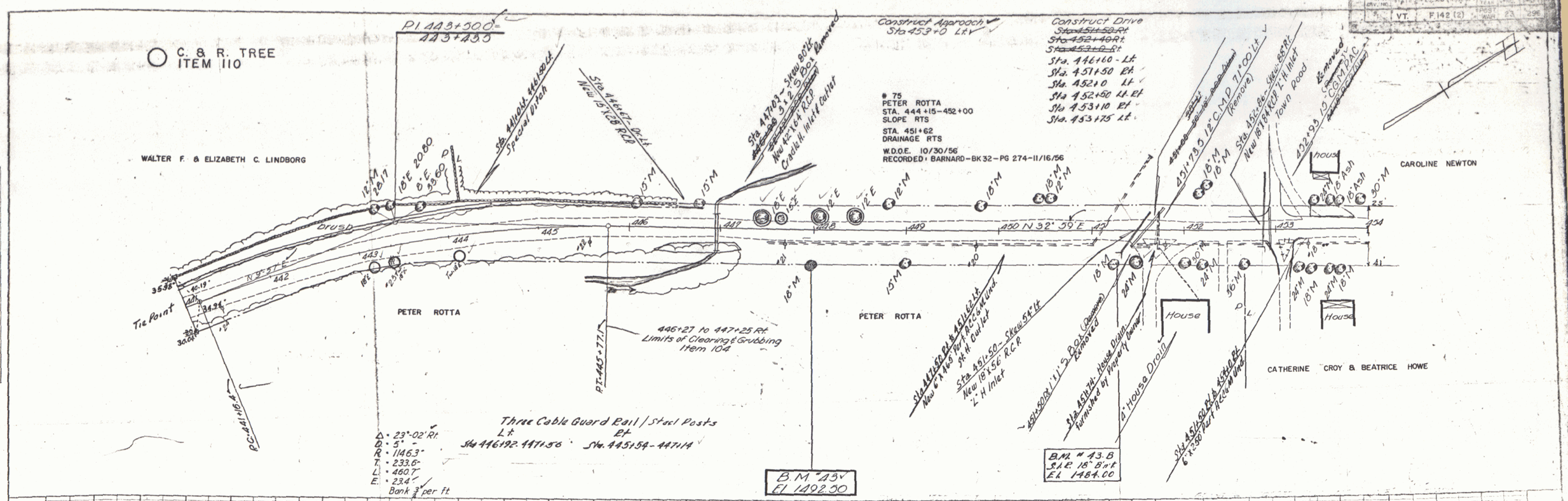
PLAN
SURVEYED
PLOTTED
NOTE BOOK
ALIGNMENT CHECKED
NO.
ST. OF WAY CHECKED
Spaulding 9-49
R. Young 12-53
E. Kelsey 11-53
Z. W. Espar

PROFILE
ESTIMATED
PLOTTED
NOTE BOOK
TOTALS CHECKED
NO.
STRUCTURE NOTAT'NS CHK'D.
Spaulding 9-49
R. Young 12-53
E. Kelsey 1-54
Z. W. Espar 1-54

22

8

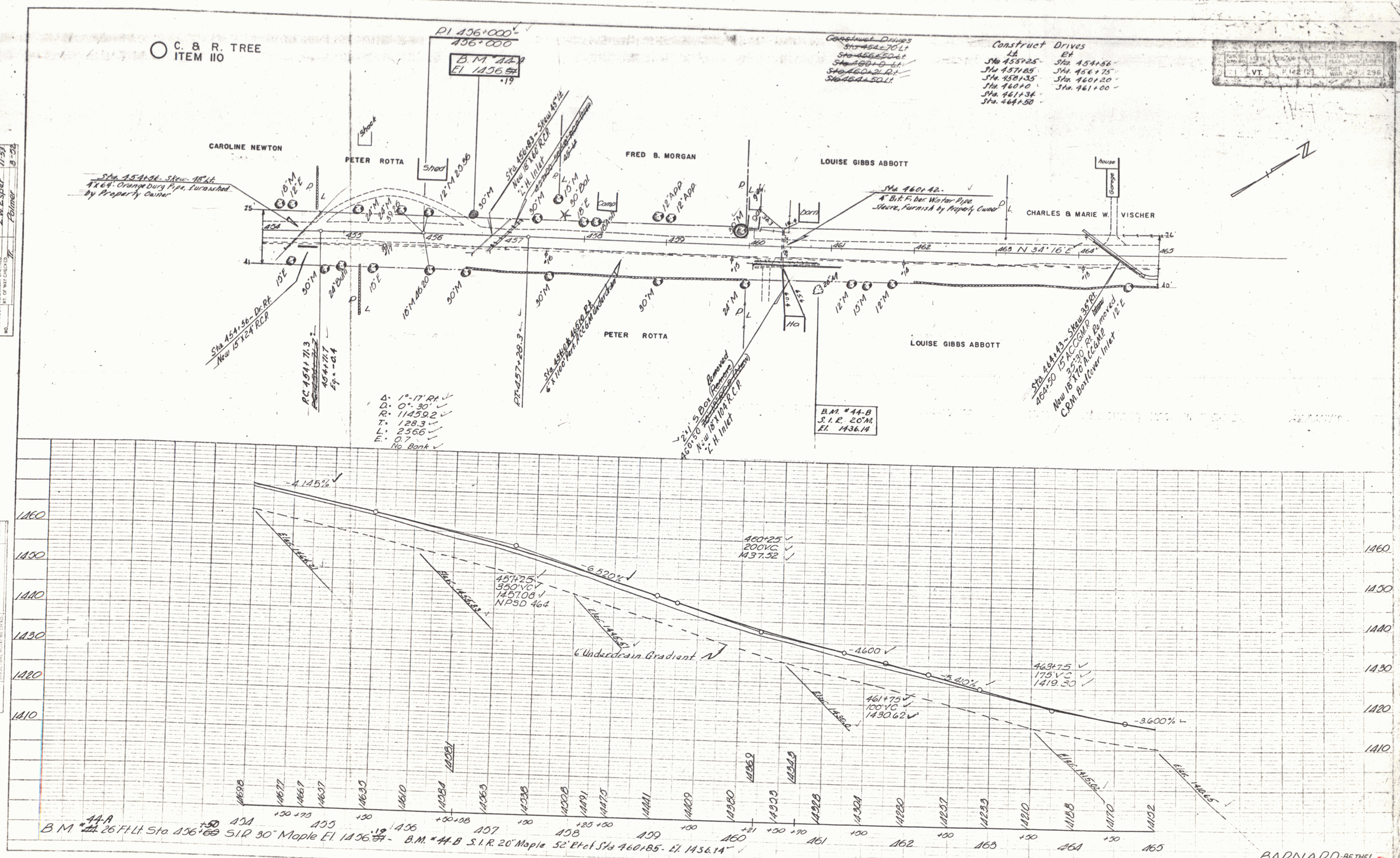
PUB. RD. DIV. NO.	STATE	FED. AID PROJECT	SHEET NO.	TOTAL SHEETS
1	VT.	F.142 (2)	23	296



BARNARD-BETHEL
Proj. F No. 142(2) 23

THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

9



RUN NO.	STATE	FED. AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	VT.	F 142 (2)	POST WAR 24	296

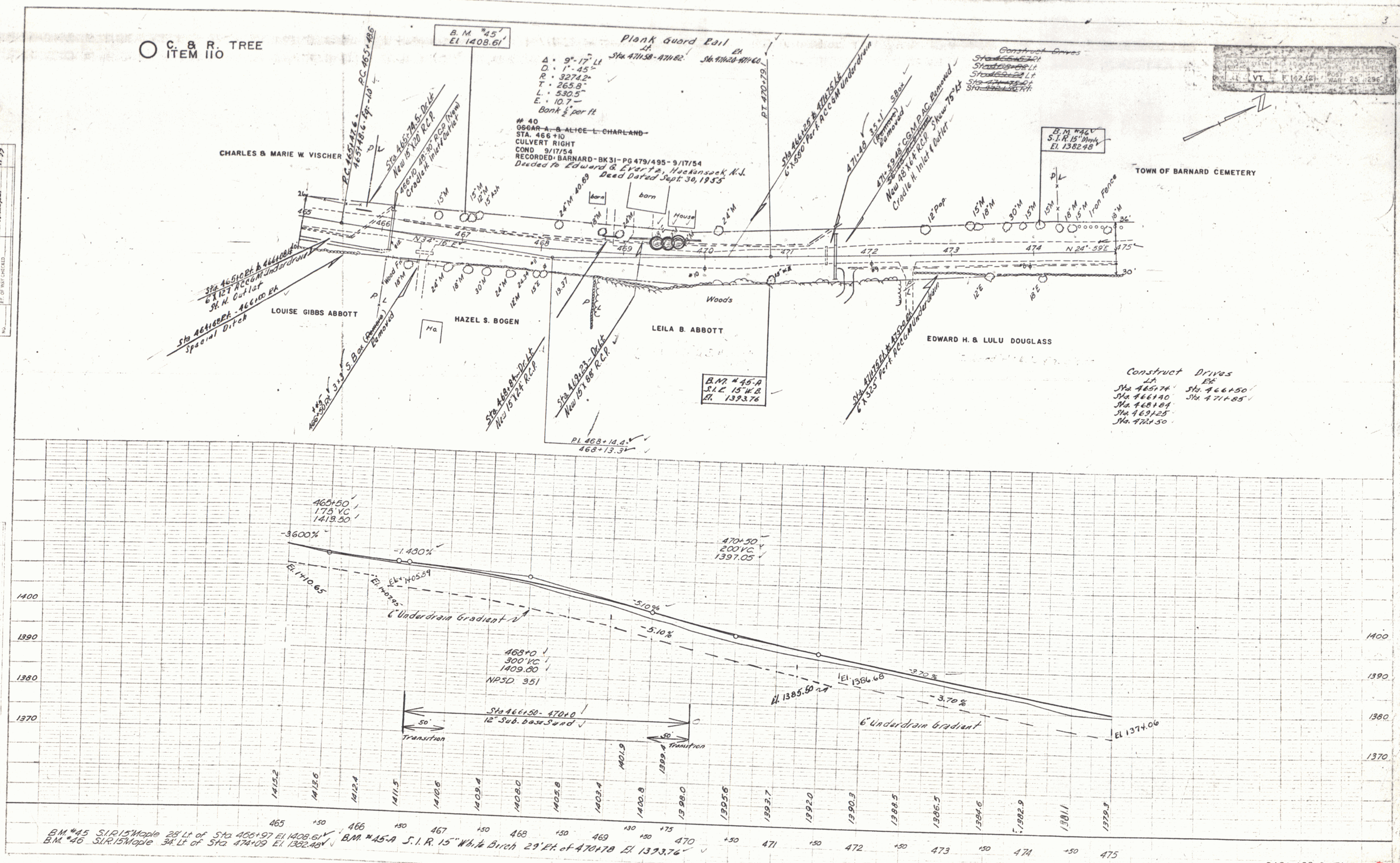
PLAN			
	SURVEYED		
	PLOTTED	Spaulding	9-39
	ALIGNMENT CHECKED	Palmer	9-39
NOTE BOOK		Z.W.Esper	11-53
NO.	FIELD BK CHECKED		
		Palmer	8-54

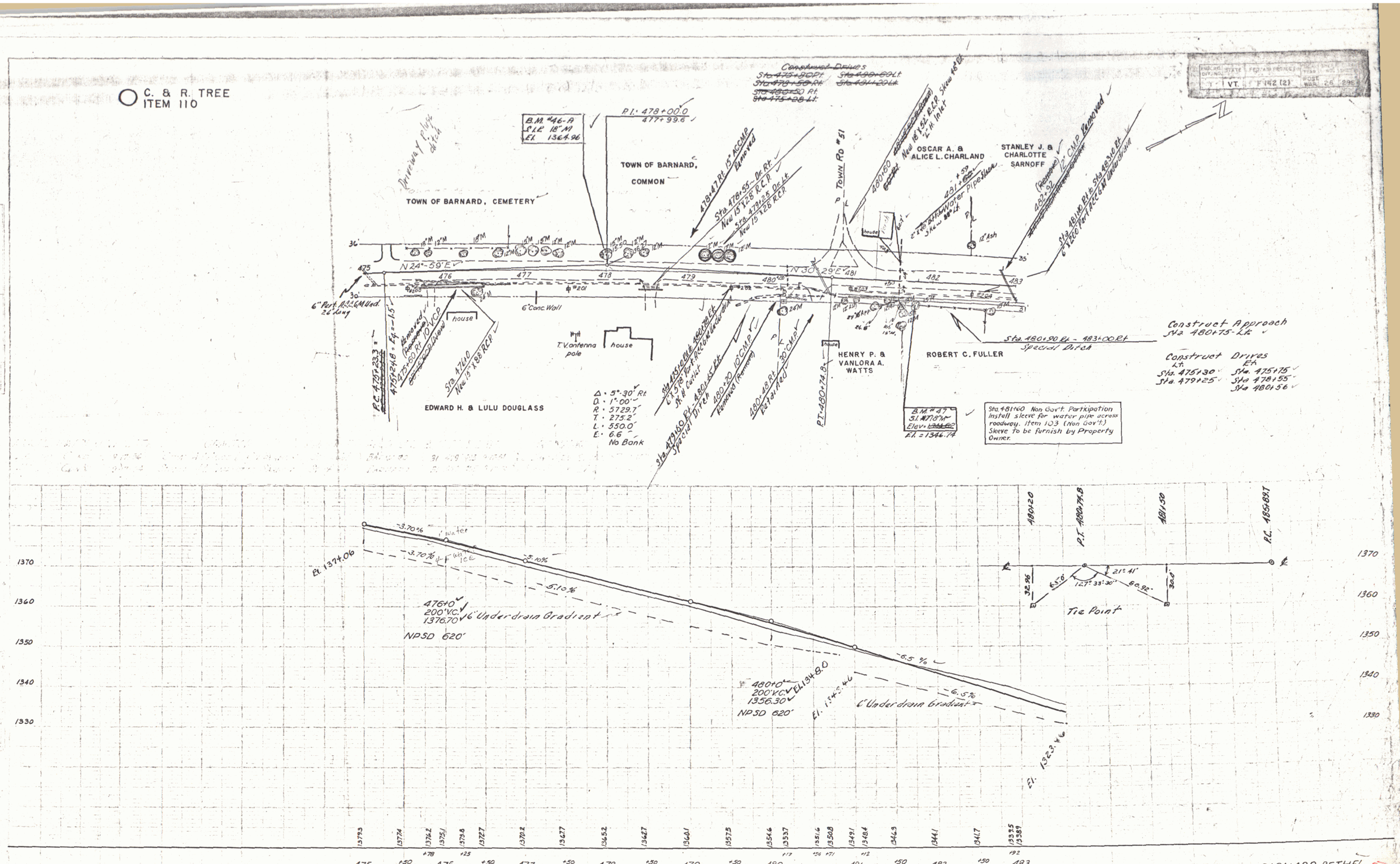
PROFILE			
	SURVEYED	Spaulding	9-39
	PLOTTED	Palmer	9-39
	GRADES CHECKED	Z.W.Esper	11-53
NOTE BOOK	M.S. NOTED	Palmer	8-54
NO.	STRUCTURE NOTES CHKD.		

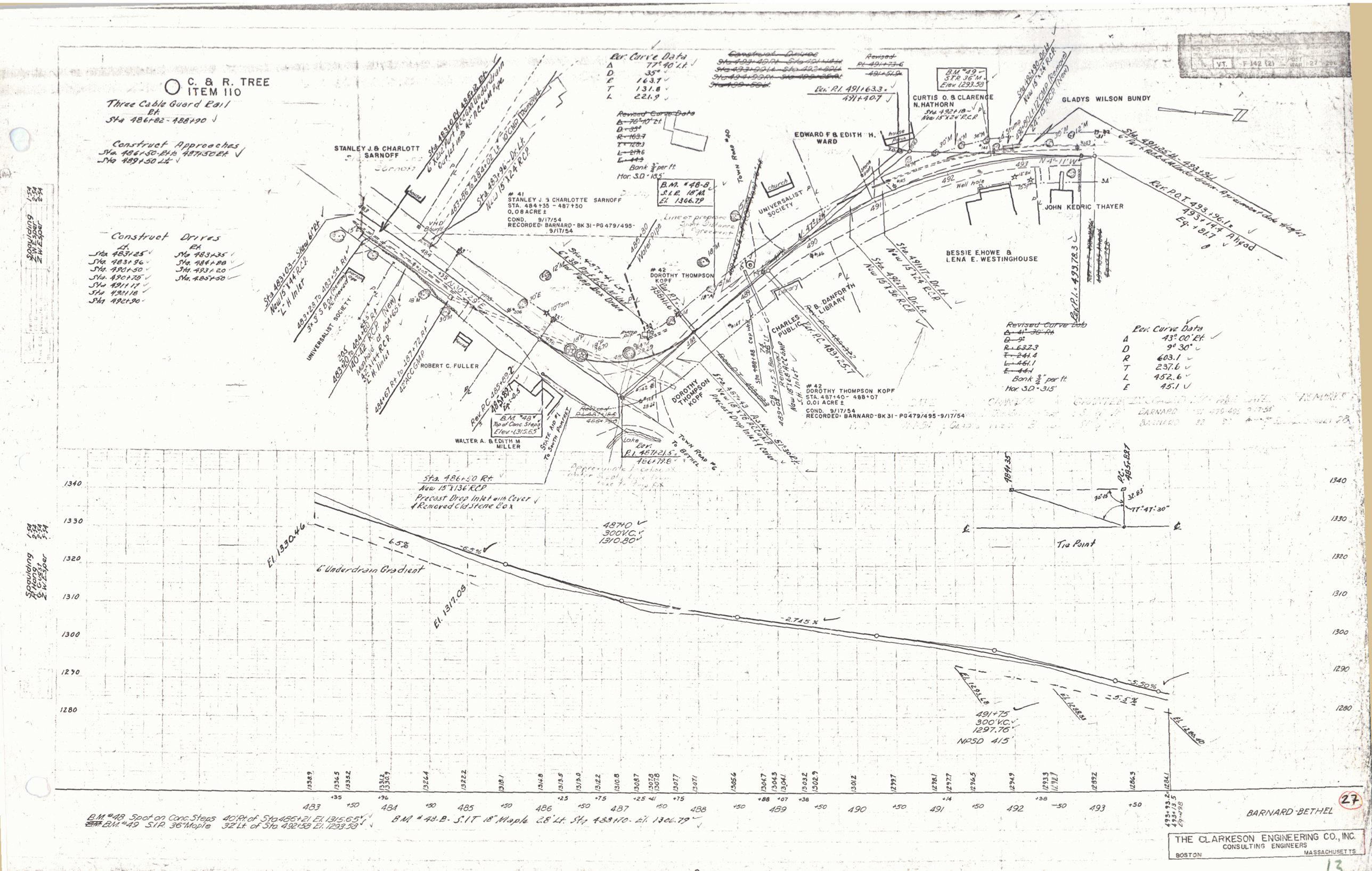
BARNARD-BETHEL
Proj. F.No. 142(2) 24

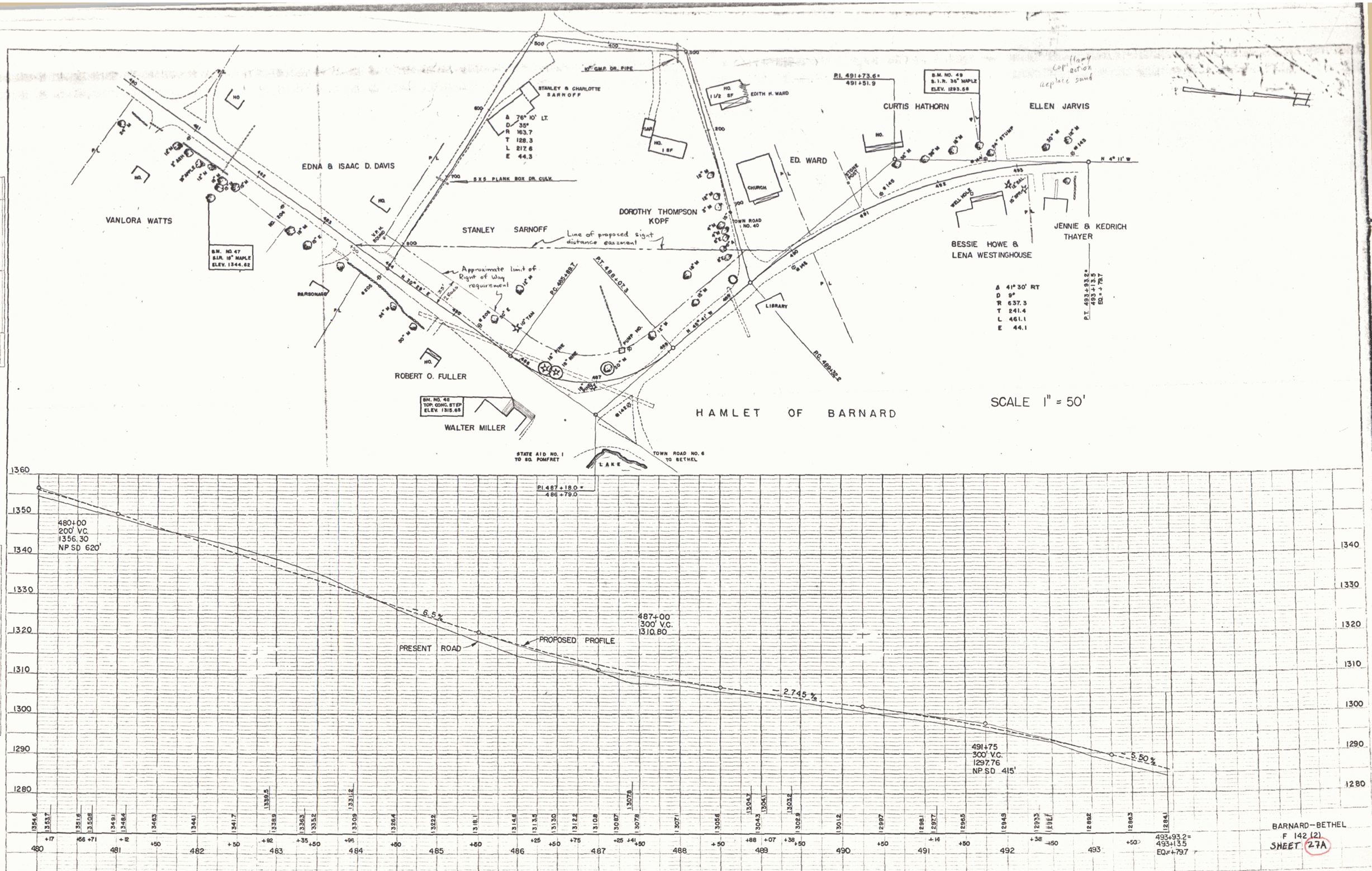
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

10


C. & R. TREE
ITEM 110
B.M. #45
El. 1408.61
Plank Guard Rail
Lt. Sta. 471+58 - 471+82
Rt. Sta. 471+20 - 471+60
Δ = 9°-17' Lt
D = 1°-45'
R = 3274.2'
T = 265.8'
L = 530.5'
E = 10.7'
Bank ½" per ft
40
~~OSCAR A. & ALICE L. CHARLAND~~
STA. 466+10
CULVERT RIGHT
COND 9/17/54
RECORDED: BARNARD-BK31-PG 479/495-9/17/54
Deeded to Edward G. Everitt, Hackensack, N.J.
Deed Dated Sept. 30, 1955
CHARLES & MARIE W. VISCHER
LOUISE GIBBS ABBOTT
HAZEL S. BOGEN
LEILA B. ABBOTT
EDWARD H. & LULU DOUGLASS
TOWN OF BARNARD CEMETERY
B.M. #46
S.I.R. 15" Maple
El. 1382.48
B.M. #45-A
S.I.R. 15" W.B.
El. 1393.76
P.C. 465+46
P.C. 465+37.6
465+48.6 Rp. -10
Sta. 465+74.5 - Dr. Lt.
New 15" X 20' R.C.P.
466+10 48"-30" RCP (New)
Cradle H. Inlet & Outlet
Sta. 466+25 & 471+75 Lt.
6" X 550' Perf. RCCGM Underdrain
471+48 3.5+ SBox
(Removed)
471+50 48" CGMPAC Removed
New 48" X 24" R.C.P. Skew 75° Lt.
Cradle H. Inlet & Outlet
Construct Drives
~~Sta. 465+67 Rt.~~
~~Sta. 469+95 Lt.~~
~~Sta. 469+25 Lt.~~
~~Sta. 471+85 Lt.~~
~~Sta. 472+50 Rt.~~
Sta. 466+10 Rt. 3+3 S. Box (Removed)
Sta. 468+84 - Dr. Lt.
New 15" X 24' R.C.P.
Sta. 469+23 - Dr. Lt.
New 15" X 88' R.C.P.
Sta. 466+50 & 470+50 Rt.
6" X 325' Perf. RCCGM Underdrain
Sta. 466+40 Rt.
Sta. 466+50 Lt.
Sta. 468+84 Rt.
Sta. 469+25 Rt.
Sta. 471+85 Lt.
Sta. 472+50 Rt.
P.I. 468+14.4
468+13.3
P.T. 470+79.1
Wood Fence
Wood's
House
barn
Ha.
Construct Drives
Lt.
Sta. 465+74
Sta. 466+40
Sta. 468+84
Sta. 469+25
Sta. 472+50
Rt.
Sta. 466+50
Sta. 471+85
465+50
175' VC
1419.50
-3.600%
-1.480%
El. 1410.65
El. 1407.95
El. 1405.89
6" Underdrain Gradient
470+50
200' VC
1397.05
-5.10%
-5.10%
468+0
300' VC
1409.80
NPSD. 351
El. 1386.68
El. 1385.50
-3.70%
-3.70%
Sta. 466+50 - 470+0
12" Sub-base Sand
50'
Transition
50'
Transition
6" Underdrain Gradient
El. 1374.06
1415.2
1413.6
1412.4
1411.5
1410.6
1409.4
1408.0
1405.8
1403.4
1401.9
1400.8
1399.4
1398.0
1395.6
1393.7
1392.0
1390.3
1388.5
1386.5
1384.6
1382.9
1381.1
1379.5
465 +50 466 +50 467 +50 468 +30 +75 469 +50 470 +50 471 +50 472 +50 473 +50 474 +50 475
1400
1390
1380
1370
B.M. #45 S.I.R. 15" Maple 25' Lt. of Sta. 466+97 El. 1408.61
B.M. #46 S.I.R. 15" Maple 34' Lt. of Sta. 474+09 El. 1382.48
B.M. #45-A S.I.R. 15" White Birch 29' Rt. of 470+78 El. 1393.76
BARNARD-BETHEL
25
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS
11


C. & R. TREE
ITEM 110
TOWN OF BARNARD, CEMETERY
TOWN OF BARNARD, COMMON
B.M. #46-A
S.L.E. 18" M
El. 1364.96
P.I. 478+00.0
477+99.6
Construct Drives
Sta. 475+90 Rt.
Sta. 479+50 Rt.
Sta. 480+50 Rt.
Sta. 475+08 Lt.
Sta. 480+60 Lt.
Sta. 481+20 Lt.
478+47 Rt. 15" ACCMP Removed
Sta. 478+55 - Dr. Rt.
New 15" x 28' R.C.P.
Sta. 479+25 Dr. Lt.
New 15" x 28' R.C.P.
TOWN RD #51
480+60 New 18" x 52' R.C.P. Skew 45° Rt.
2' H. Inlet
OSCAR A. & ALICE L. CHARLAND
STANLEY J. & CHARLOTTE SARNOFF
481+59 Water Pipeline
Skew 90° Lt.
12" Ash
482+92 12" CMP Removed
Sta. 481+40 Rt. to Sta. 483+40 Rt.
6" x 1260' Perf. R.C.M. Underdrain
N 24°-59' E
N 30°-29' E
6" Conc. Wall
T.V. antenna pole
house
6" Perf. R.C.M. Underdrain 26' long
P.C. 475+23.3
475+24.8 = Eq. = 1.5'
Removed (Remove) 475+60 Rt. 10" VCP
Sta. 476+10 New 15" x 28' R.C.P.
EDWARD H. & LULU DOUGLASS
Δ = 5°-30' Rt.
D = 1°-00'
R = 5729.7'
T = 275.2'
L = 550.0'
E = 6.6'
No Bank
Sta. 479+60 Rt. - 480+35 Rt.
Special Ditch
480+20 10" CMP Removed (Remove)
480+48 Rt. 30" CMP Partial Rem.
P.T. 480+74.8
HENRY P. & VANLORA A. WATTS
ROBERT C. FULLER
Sta. 480+90 Rt. - 483+00 Rt.
Special Ditch
Construct Approach
Sta. 480+75 - Lt.
Construct Drives
Lt.
Sta. 475+30
Sta. 479+25
Rt.
Sta. 475+75
Sta. 478+55
Sta. 480+56
B.M. #47
S.I. 18" M
Elev. = 1346.74
Sta. 481+60 Non Gov't. Participation
Install sleeve for water pipe across roadway. Item 103 (Non Gov't.)
Sleeve to be furnish by Property Owner.
Spaulding 10-53
Z.W. Esper 11-53
Z.W. Esper 11-53
Spaulding 9-53
A. Hong 12-53
G. Guest 1-54
Z.W. Esper 5-54
El. 1374.06
-3.70%
water
ice
-5.10%
476+0
200' V.C.
1376.70
6" Underdrain Gradient
NPSD 620'
-6.5%
480+0
200' V.C.
1356.30
El. 1348.0
El. 1343.46
El. 1323.46
480+20
P.T. 480+74.8
481+50
P.C. 485+83.7
32.96
6.56
21°-41'
127°-33'-30"
80.92'
32.0
Tie Point
1370
1360
1350
1340
1330
475
476
477
478
479
480
481
482
483
B.M. #47 S.I. 18" Maple 29' Rt. of Sta. 481+82 El. 1346.74
B.M. #46-A S.I.E. 18" Maple 21' Lt. of Sta. 478+04 - El. 1364.96
BARNARD-BETHEL
26
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON
MASSACHUSETTS
12


C. & R. TREE
ITEM 110
Three Cable Guard Rail
Rt.
Sta 486+82 - 488+90
Construct Approaches
Sta. 486+50 Rt to 487+50 Rt
Sta 489+50 Lt
Construct Drives
Lt.
Sta 483+25
Sta. 483+96
Sta. 490+50
Sta 490+75
Sta 491+17
Sta 492+18
Rt.
Sta 483+35
Sta. 484+88
Sta. 493+20
Sta. 485+50
Sta 483+03 - Skew 61° Rt.
New 15" x 44' R.C.P.
"L" H Inlet
483+28 To 483+54 Rt
3" x 3" S.B.R. (Removed)
22" Channel Pipe
UNIVERSALIST SOCIETY
483+80 To 484+88.5 Rt
110-12" RCP (New)
Manhole at 484+65 Rt
4' x 4' H Inlet
22" ACC CMP
484+67 Rt to 487+72 Rt
42" ACC CMP
ROBERT C. FULLER
STANLEY J. & CHARLOTT SARNOFF
Sta 483+10 Rt 48-12" Rt.
6" x 24" Perf. RCC & Underdrain
Outlet into 42" RCC & M Pipe
Sta. 483+96 - Dr. Lt.
New 15" x 124' RCP
483+86 To 484+02 Lt 10" CMP Removed
House
VHD Blump
Rev. Curve Data
Δ 77° 40' Lt.
D 35°
R 163.7
T 131.8
L 221.9
Revised Curve Data
Δ 76° 10' Lt
D 35°
R 163.7
T 120.3
L 217.6
E 44.3
Bank 3/4" per ft.
Hor. S.D. 185'
B.M. #48-B
S.I.P. 18" M
El. 1306.79
41
STANLEY J. & CHARLOTTE SARNOFF
STA. 484+35 - 487+50
0.08 ACRE ±
COND. 9/17/54
RECORDED: BARNARD - BK 31 - PG 479/495 - 9/17/54
Line of proposed Sight Distance Easement
Water pipe
Sta. 485+37 + 41 Lt.
El. 38' Perf. Rectangular Box Drain
12" Mar. Tarp Box Drain
42
DOROTHY THOMPSON KOPF
Rev. P.I. 488+11.6
Pump
Lake
Rev. P.C. 485+89.2
Rev. P.I. 487+18.6
485+79.0
B.M. #48
Top of Conc. Steps
Elev. 1315.65'
WALTER A. & EDITH M. MILLER
State Aid #1
To South Pomfret
Revised P.I. 487+18.6
485+79.0
Rev. P.I. 487+21.5
486+79.8
Approximate Location Water Supply Line from Tank to Pump Hx
Town Road #20
To Bethel
Sta. 486+50 Rt.
New 15" x 136' RCP
Precast Drop Inlet with Cover & Removed Old Stone Box
Revised
Pl. 491+73.6
491+51.9
Rev. P.I. 491+63.3
491+40.7
B.M. #49
S.I.P. 36" M
Elev 1293.58
CURTIS O. & CLARENCE N. HATHORN
Sta. 492+18 -
New 15" x 24' R.C.P.
Sta. 492+90 - Dr. Lt.
New 15" x 54' R.C.P.
24" Stump
492+80 Lt 12" CMP (Removed)
24-15" RCP (New)
GLADYS WILSON BUNDY
EDWARD F. & EDITH H. WARD
House
Barn
Sta. 491+32 Rt. - 493+84 Lt.
6" Perf. RCC & M Underdrain
Rev. P.O.T. 493+96.1
493+14.4 Ahead
Eq. +81.7
Back
UNIVERSALIST SOCIETY
Church
Sta. 491+17 - Dr. Lt.
New 15" x 24" RCP
Sta. 490+71 - Dr. Lt.
New 15" x 36" RCP
BESSIE E. HOWE & LENA E. WESTINGHOUSE
JOHN KEDRIC THAYER
Well hole
Rev. P.I. = 493.78.3
Library
R. B. DANFORTH LIBRARY
Rev. P.C. 489+25.2
CHARLES PUBLIC
Sta. 488+88 Con. Hd.
Remove
New 15" L.B.H. & CMP
S.H. Inlet
DOROTHY THOMPSON KOPF
Sta. 487+43
New 18" x 70' RCCMP
Precast Drop Inlet & Cover
Revised Curve Data
Δ 41° 30' Rt
D 9°
R 632.3
T 241.4
L 461.1
E 44.1
Bank 3/4" per ft.
Hor. S.D. 315'
Rev. Curve Data
Δ 43° 00' Rt.
D 9° 30'
R 603.1
T 237.6
L 452.6
E 45.1
42
DOROTHY THOMPSON KOPF
STA. 487+40 - 488+07
0.01 ACRE ±
COND. 9/17/54
RECORDED: BARNARD - BK 31 - PG 479/495 - 9/17/54
484+35
P.C. 485+82.7
30.16'
32.83'
77° 47' 30"
Tie Point
El. 1330.46
6.5%
-6.5%
6" Underdrain Gradient
El. 1317.08
487+0
300' V.C.
1310.80
-2.745%
El. 1293.48
-5.50%
-5.5%
El. 1288.55
El. 1280.40
491+75
300' V.C.
1297.76
NPSD 415
1340
1330
1320
1310
1300
1290
1280
483 +35 +50 484 +96 +50 485 +50 486 +25 +50 487 +75 +25 +41 +50 488 +75 +50 489 +88 +07 +38 +50 490 +50 491 +14 +50 492 +38 -50 493 +50
493+73.2
493+13.5
493+98
29+98
BM #48 Spot on Conc. Steps 40' Rt. of Sta 486+21 El. 1315.65'
BM #49 S.I.P. 36" Maple 32' Lt. of Sta. 492+58 El. 1293.58'
BM #48-B - S.I.P. 18" Maple 28' Lt. Sta. 483+70 - El. 1306.79'
BARNARD-BETHEL
27
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS
13



PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
ALL OF PLAT CHECKED
DATE
BY

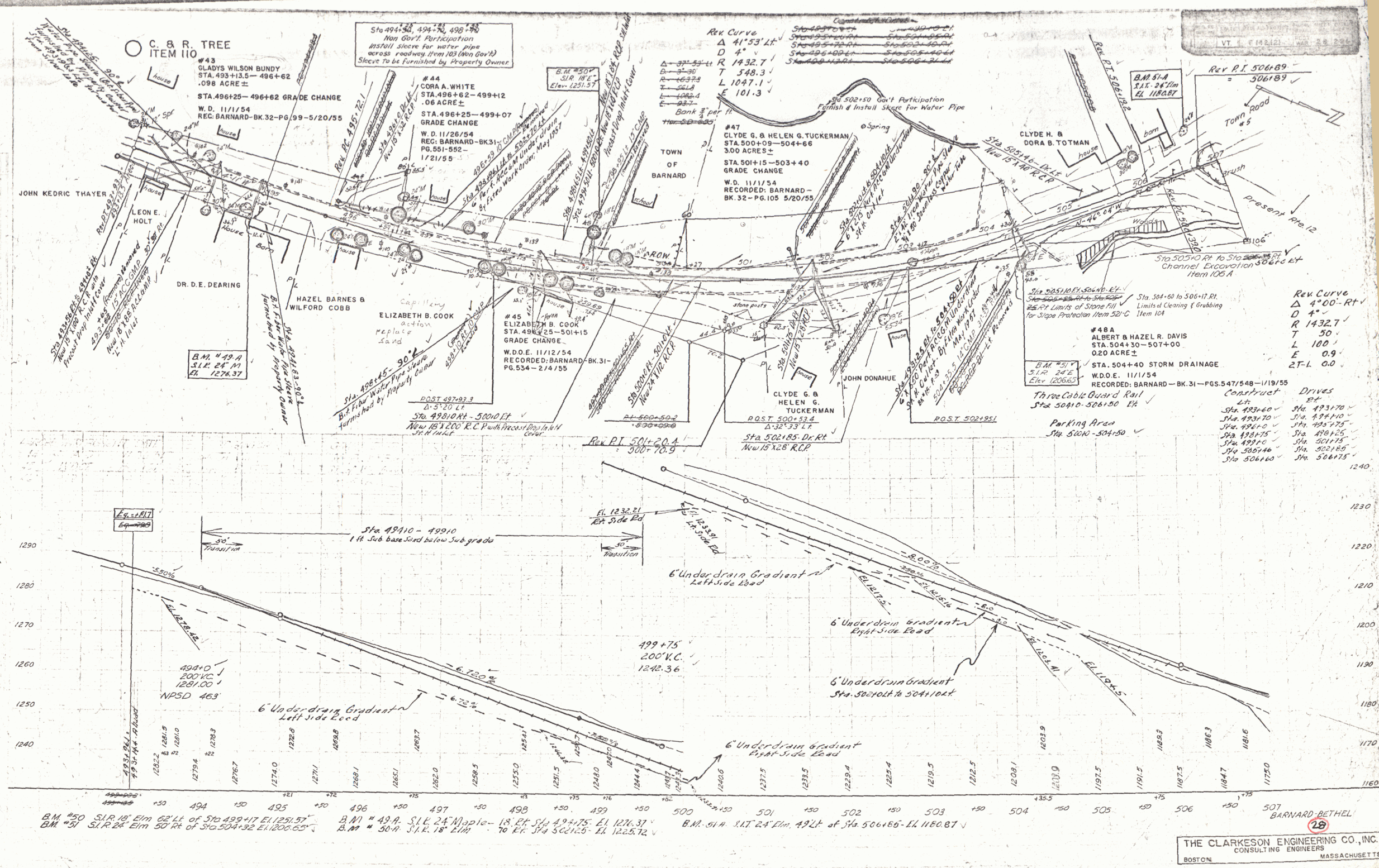
PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
SMALL TOPS NOTATIONS NOTED
DATE
BY

PLATE 1-PLAN-PROFILE B. P. R. STANDARD

EUGENE DIETZGEN CO., Chicago-New York

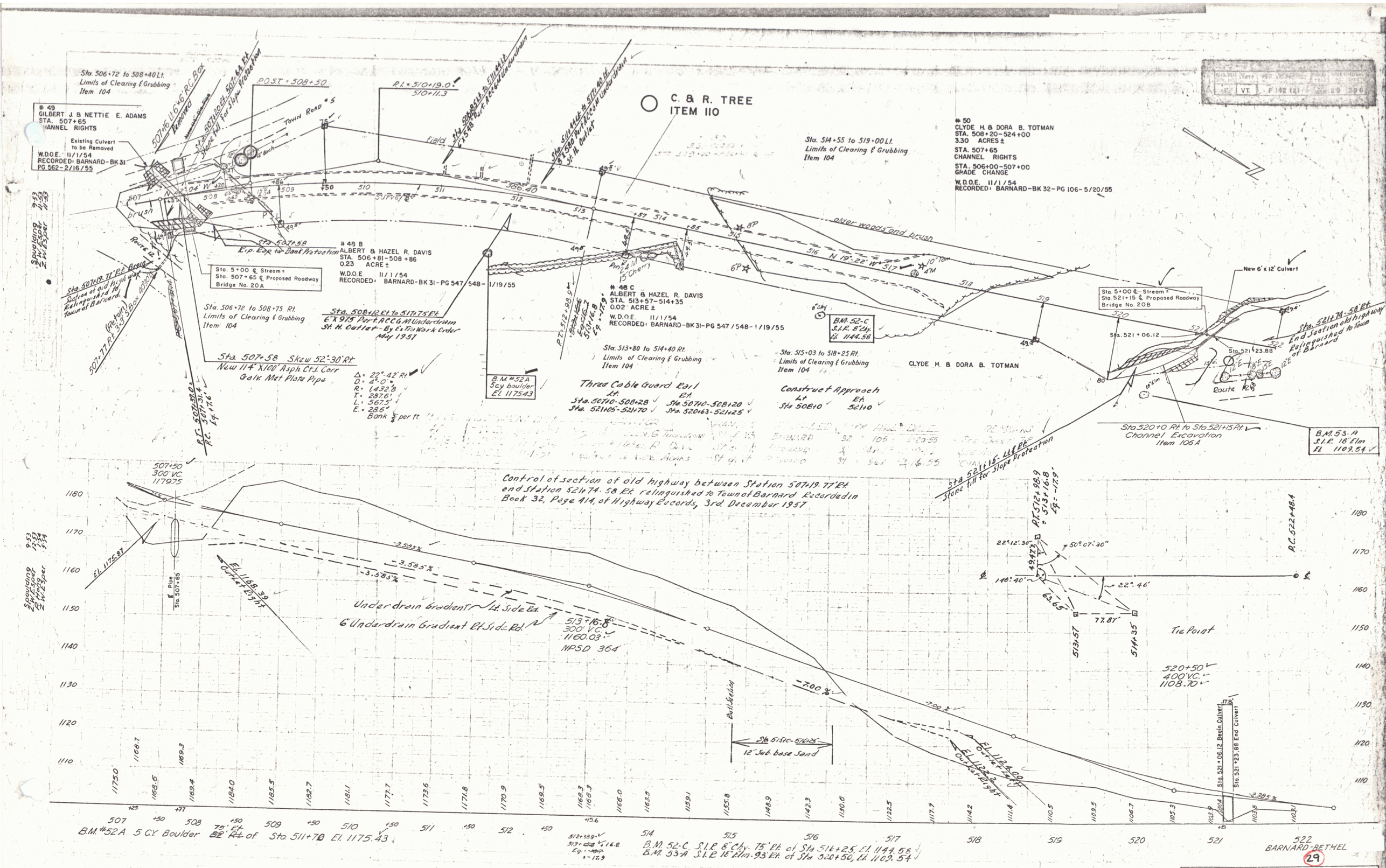
Printed in U.S.A.
On IMPERIAL Index Cloth

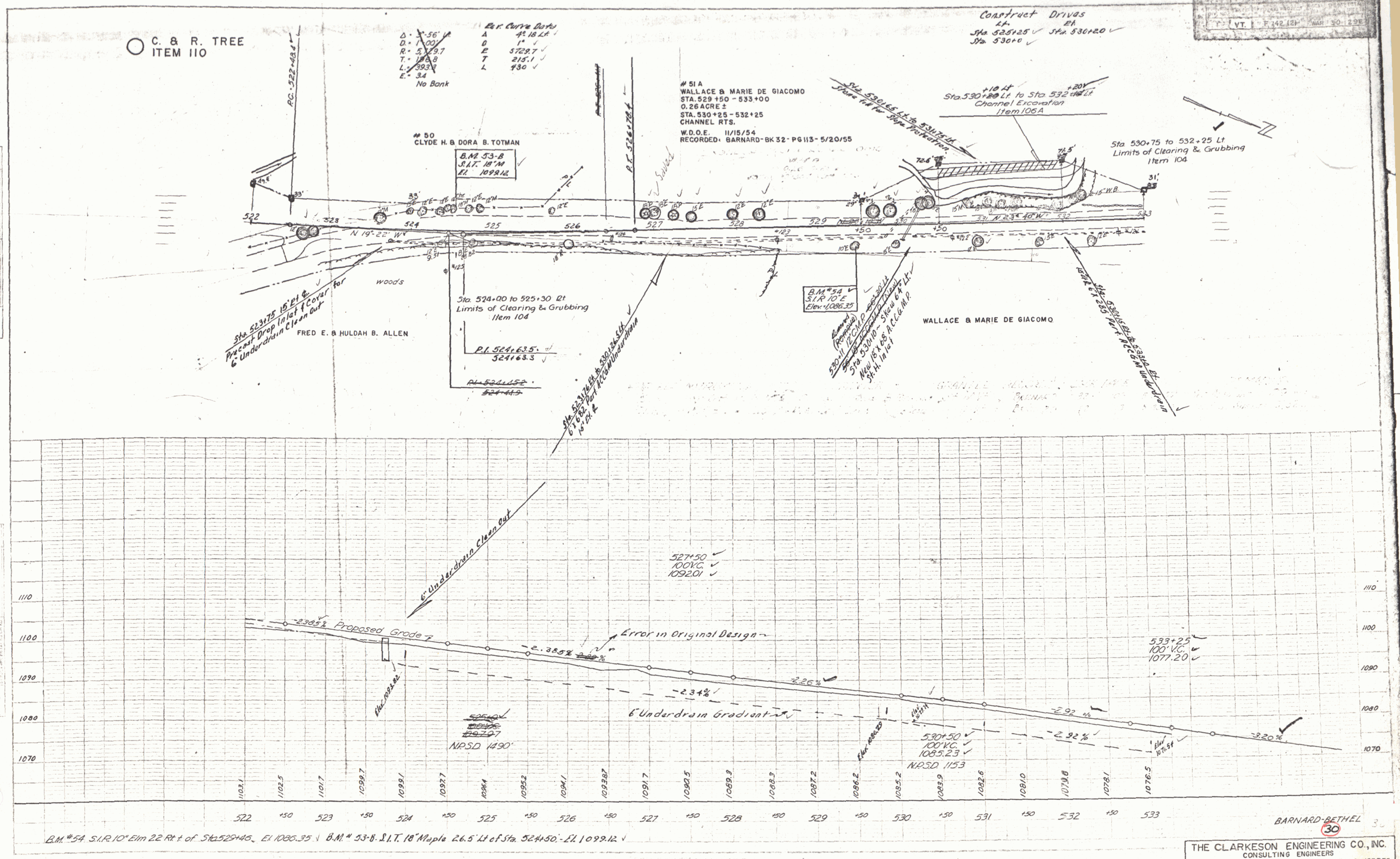
14


C. & R. TREE
ITEM 110
#43
GLADYS WILSON BUNDY
STA. 493+13.5 — 496+62
.098 ACRE ±
STA. 496+25 — 496+62 GRADE CHANGE
W. D. 11/1/54
REC: BARNARD-BK.32-PG.99-5/20/55
Sta 494+50, 494+70, 498+40
Non Gov't. Participation
Install Sleeve for water pipe
across roadway (Item 103 Non Gov't)
Sleeve To be furnished by Property Owner
#44
CORA A. WHITE
STA. 496+62 — 499+12
.06 ACRE ±
STA. 496+25 — 499+07
GRADE CHANGE
W. D. 11/26/54
REG: BARNARD-BK.31-PG.551-552-
1/21/55
Rev Curve
Δ 41°53' Lt.
D 4°
R 1432.7
T 548.3
L 1047.1
E 101.3
Bank 3/4" per ft.
Sta 502+50 Gov't Participation
Furnish & Install Sleeve for Water Pipe
#47
CLYDE G. & HELEN G. TUCKERMAN
STA. 500+09 — 504+66
3.00 ACRES ±
STA. 501+15 — 503+40
GRADE CHANGE
W.D. 11/1/54
RECORDED: BARNARD-BK. 32-PG. 105 5/20/55
TOWN OF BARNARD
CLYDE H. & DORA B. TOTMAN
JOHN KEDRIC THAYER
LEON E. HOLT
DR. D. E. DEARING
HAZEL BARNES & WILFORD COBB
ELIZABETH B. COOK
#45
ELIZABETH B. COOK
STA. 496+25 — 501+15
GRADE CHANGE
W.D.O.E. 11/12/54
RECORDED: BARNARD-BK.31-PG.534 — 2/4/55
JOHN DONAHUE
CLYDE G. & HELEN G. TUCKERMAN
#48A
ALBERT & HAZEL R. DAVIS
STA. 504+30 — 507+00
0.20 ACRE ±
STA. 504+40 STORM DRAINAGE
W.D.O.E. 11/1/54
RECORDED: BARNARD — BK. 31 — PGS. 547/548 — 1/19/55
Rev. P.I. 506+89
= 506+89
Town Road #5
present Rte 12
Sta 505+10 Rt to Sta 506+60 Rt
Channel Excavation
Item 106A
Sta. 504+60 to 506+17 Rt.
Limits of Clearing & Grubbing
Item 104
Limits of Stone Fill for Slope Protection Item 521-C
Rev. Curve
Δ 4°00' - Rt
D 4°
R 1432.7
T 50
L 100
E 0.9
2T-L 0.0
Three Cable Guard Rail
Sta 500+10 - 506+50 Lt.
Parking Area
Sta. 500+10 - 504+50
Construct Drives
Sta. 493+60 Lt. — Sta. 493+70 Ft.
Sta. 493+70 — Sta. 494+10
Sta. 496+0 — Sta. 493+75 — Sta. 493+75
Sta. 493+75 — Sta. 498+25
Sta. 493+0 — Sta. 501+75
Sta 506+46 — Sta. 502+85
Sta 506+60 — Sta. 506+75
Eq. = 817
Sta 49+10 - 49+90
1 ft Sub base Sand below Subgrade
50' Transition
El. 1232.21 Rt. Side Rd
El. 1233.31 Lt. Side Rd
6" Underdrain Gradient Left Side Road
6" Underdrain Gradient Right Side Road
6" Underdrain Gradient Sta. 502+01 Lt. to 504+10 Lt.
494+0
200' V.C.
1281.00
NPSD 463'
499+75
200' V.C.
1242.36
-5.50%
-6.720%
-6.72%
-8.00%
-8.0%
-3.0%
494 495 496 497 498 499 500 501 502 503 504 505 506 507
BARNARD-BETHEL
B.M. #50 S.I.R. 18" Elm 62' Lt of Sta 499+17 El. 1251.57
B.M. #51 S.I.R. 24" Elm 50' Rt of Sta. 504+32 El. 1206.65
B.M. #49-A S.I.T. 24" Maple — 18' Rt Sta 494+75 El. 1276.37
B.M. #50-A S.I.R. 18" Elm 70' Rt Sta 502+25 El. 1225.72
B.M. #51-A S.I.T. 24" Elm, 49' Lt of Sta. 506+86 El. 1180.87
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

28

15


Sta. 506+72 to 508+40 Lt.
Limits of Clearing & Grubbing
Item 104
49
GILBERT J. & NETTIE E. ADAMS
STA. 507+65
CHANNEL RIGHTS
Existing Culvert to be Removed
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK 31 PG 562-2/16/55
POST = 508+50
P.I. = 510+19.0
510+11.3
Town Road #5
C. & R. TREE
ITEM 110
Sta. 514+55 to 519+00 Lt.
Limits of Clearing & Grubbing
Item 104
50
CLYDE H. & DORA B. TOTMAN
STA. 508+20-524+00
3.30 ACRES ±
STA. 507+65
CHANNEL RIGHTS
STA. 506+00-507+00
GRADE CHANGE
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK 32-PG 106-5/20/55
Sta. 507+19.77' Rt. Begin
Retrace of old highway
Relinquished to
Town of Barnard
(Retain)
507+77 Rt. 3'x3' Box
Route 12
Sta. 5+00 ℄ Stream =
Sta. 507+65 ℄ Proposed Roadway
Bridge No. 20A
48 B
ALBERT & HAZEL R. DAVIS
STA. 506+81-508+86
0.23 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK 31-PG 547/548-1/19/55
Sta. 506+72 to 508+75 Rt.
Limits of Clearing & Grubbing
Item 104
Sta. 508+12 Lt to 511+75 Rt.
6" X 975' Perf. ACCGM Underdrain
St. H. Outlet - By E's Tru Work Order
May 1957
Sta. 507+58 Skew 52°-30' Rt
New 114" X 100' Asph. Ctd. Corr
Galv. Met Plate Pipe
Δ = 22°-42' Rt.
D = 4°-0'
R = 1432.8
T = 287.6'
L = 567.5'
E = 28.6'
Bank ½ per ft.
B.M. #52A
5 cy boulder
El. 1175.43
48 C
ALBERT & HAZEL R. DAVIS
STA. 513+57-514+35
0.02 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK 31-PG 547/548-1/19/55
Sta. 513+80 to 514+40 Rt.
Limits of Clearing & Grubbing
Item 104
Sta. 515+03 to 518+25 Rt.
Limits of Clearing & Grubbing
Item 104
B.M. 52-C
S.I.R. 8" Cly.
El. 1144.58
CLYDE H. & DORA B. TOTMAN
Three Cable Guard Rail
Lt. Sta. 507+10-508+28
Sta. 521+05-521+70
Rt. Sta. 507+10-508+20
Sta. 520+63-521+25
Construct Approach
Lt. Sta. 508+10
Rt. 521+10
New 6' x 12' Culvert
Sta. 5+00 ℄ Stream =
Sta. 521+15 ℄ Proposed Roadway
Bridge No. 20B
Sta. 521+06.12
Sta. 521+23.88
Sta. 521+74-58' Rt.
End Section old highway
Relinquished to Town
of Barnard
Route #20
Sta. 520+0 Rt. to Sta. 521+15 Rt.
Channel Excavation
Item 106A
B.M. 53-A
S.I.R. 16" Elm
El. 1109.54
Control of section of old highway between Station 507+19.77' Rt and Station 521+74.58 Rt. relinquished to Town of Barnard Recorded in Book 32, Page 414, of Highway Records, 3rd. December 1957
Sta. 521+15-114 Rt.
Stone fill for Slope Protection
Pipe Sta. 507+65
El. 1175.87
Outlet 29 ft
-3.595%
-3.585%
Underdrain Gradient Lt. Side Rd.
6" Underdrain Gradient Rt. Side Rd.
513+16.8
300' V.C.
1160.03
NPSD 364
-7.00%
Bell Bedding
Sta. 515+0-516+25
12" Sub-base Sand
El. 1134.00
Outlet 19 ft
El. 1132.2
Outlet 21 ft
-2.385%
Tie Point
520+50
400' V.C.
1108.70
Sta. 521+06.12 Begin Culvert
Sta. 521+23.88 End Culvert
B.M. #52A 5 C.Y. Boulder 75' Rt. of Sta. 511+70 El. 1175.43
B.M. 52-C S.I.R. 8" Cly. 75' Rt. of Sta. 516+25 El. 1144.58
B.M. 53-A S.I.R. 16" Elm. 93' Rt. of Sta. 520+50 El. 1109.54
BARNARD-BETHEL
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

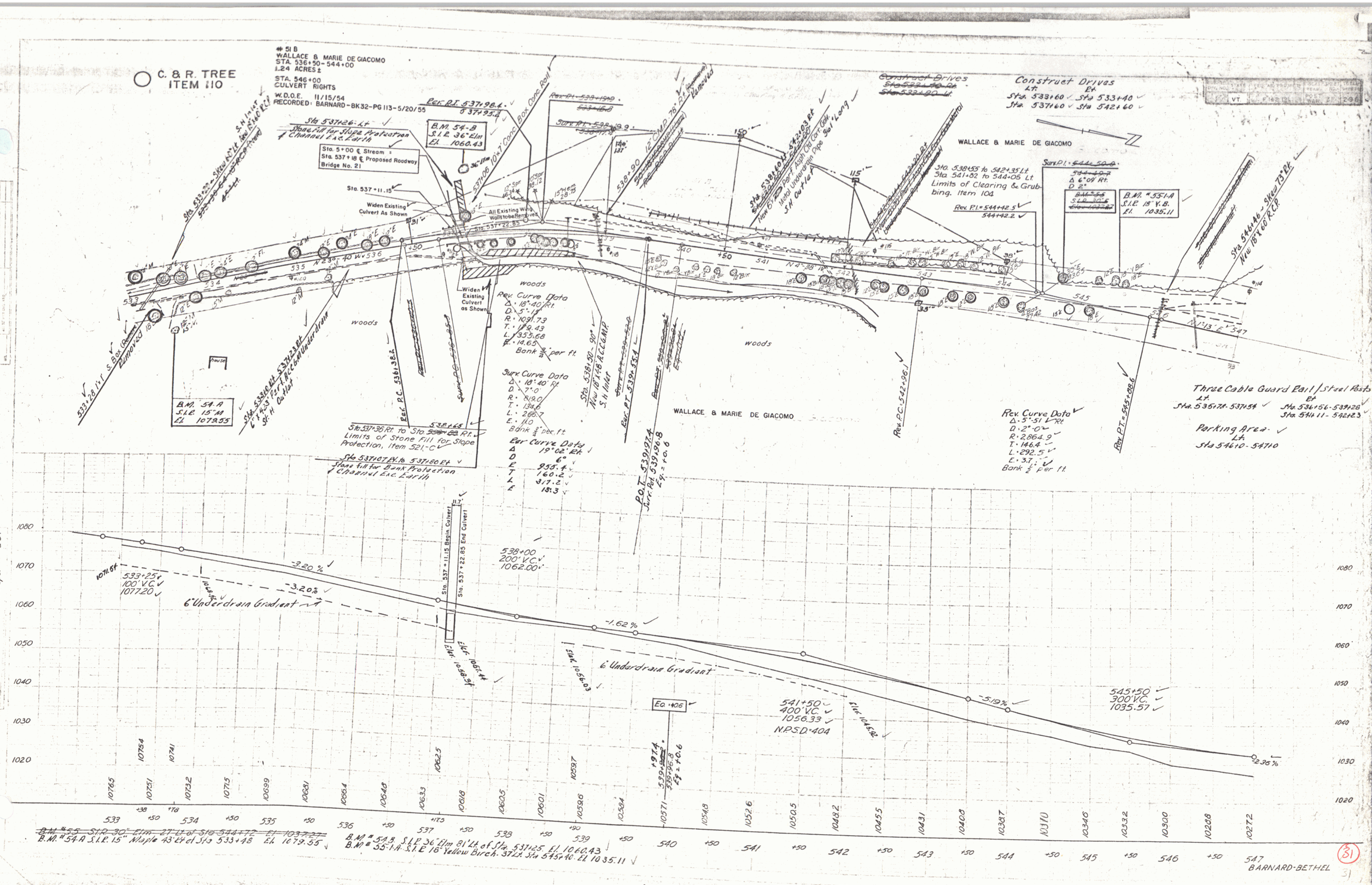


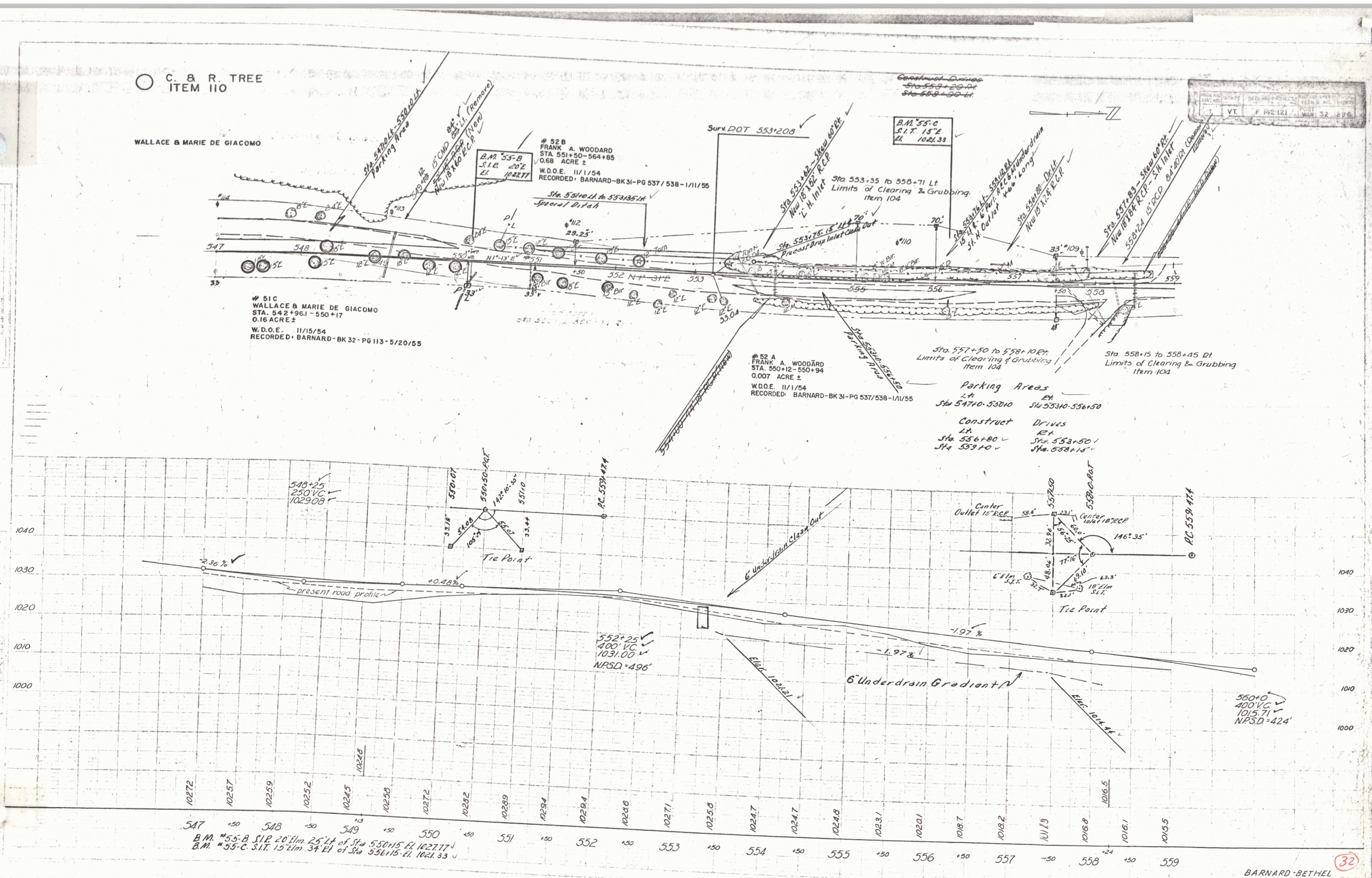
BARNARD-BETHEL

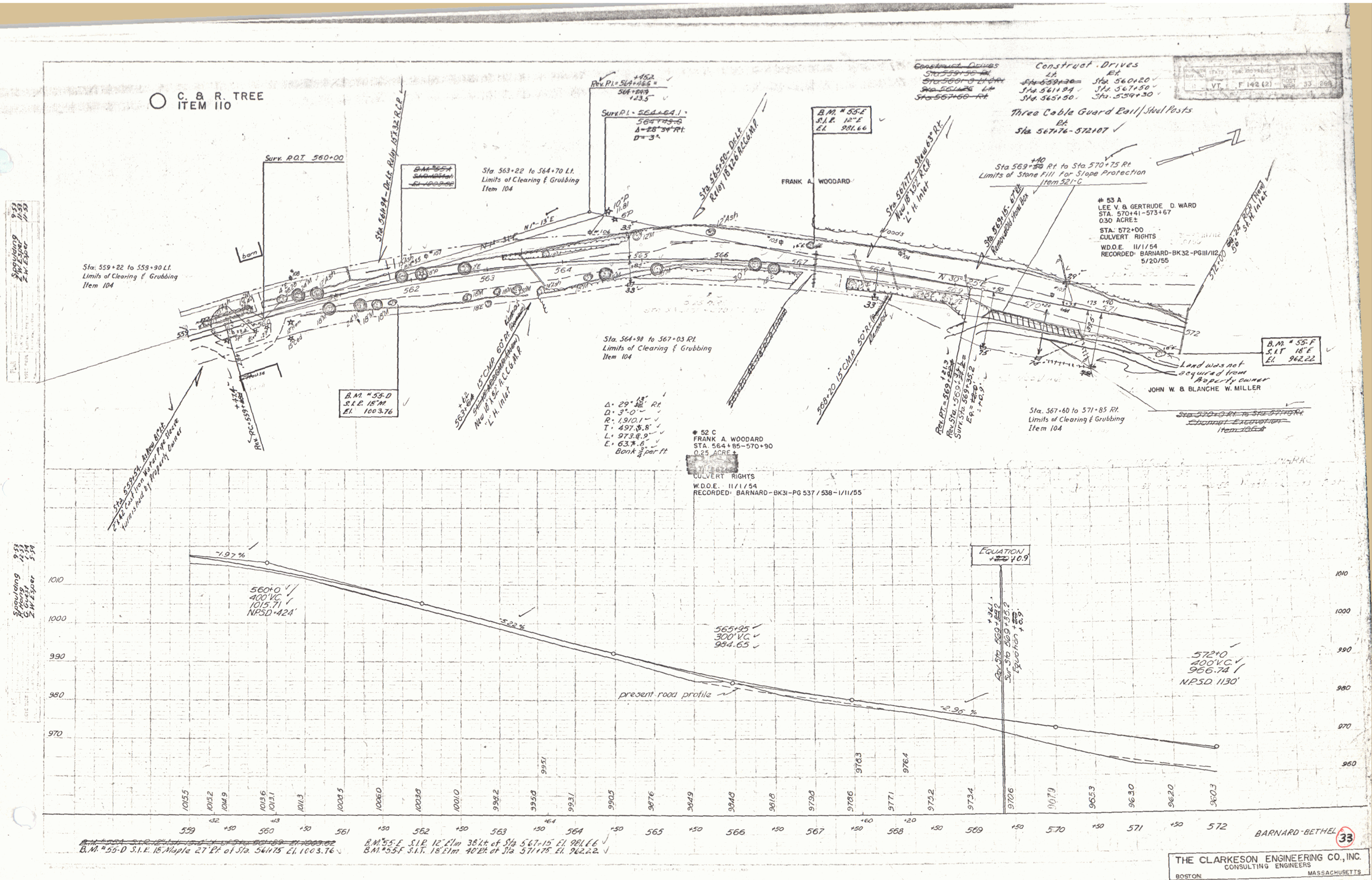
30

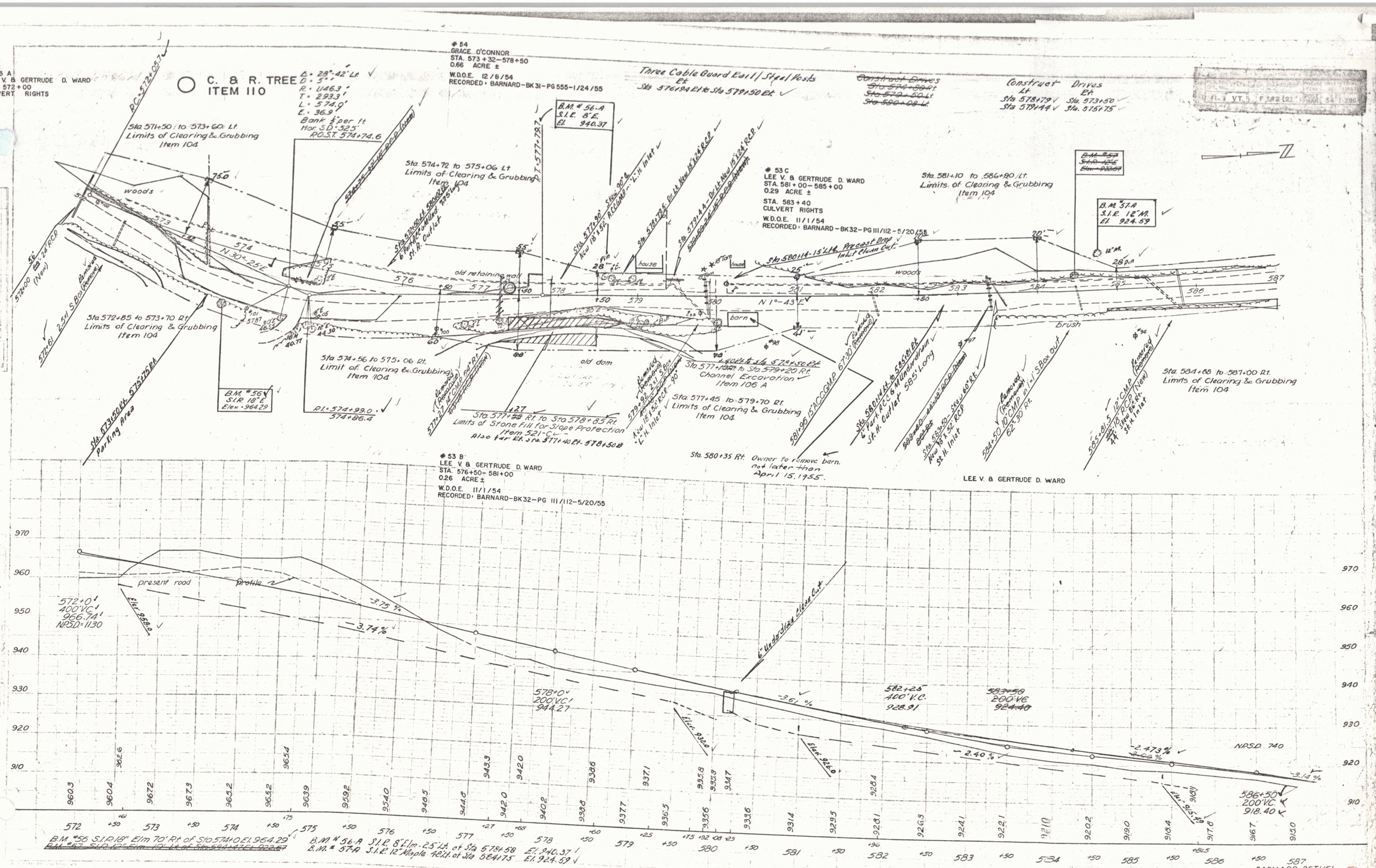
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

17


C. & R. TREE
ITEM 110
#51 B
WALLACE & MARIE DE GIACOMO
STA. 536+50 - 544+00
1.24 ACRES ±
STA. 546+00
CULVERT RIGHTS
W.D.O.E. 11/15/54
RECORDED: BARNARD - BK32 - PG 113 - 5/20/55
Construct Drives
Lt. Sta. 533+60
Sta. 537+60
Rt. Sta. 533+40
Sta. 542+60
WALLACE & MARIE DE GIACOMO
Sta. 538+55 to 542+35 Lt.
Sta. 541+82 to 544+05 Lt.
Limits of Clearing & Grubbing. Item 104
Rev. P.I. = 544+42.5
544+42.2
B.M. #551-A
S.I.P. 18" Y.B.
El. 1035.11
Sta. 546+46 - Skew 73° Rt.
New 18" x 60' R.C.P.
Three Cable Guard Rail / Steel Posts
Lt. Sta. 535+71 - 537+54
Rt. Sta. 536+56 - 539+28
Sta. 541+11 - 542+23
Parking Area
Lt.
Sta. 546+10 - 547+10
Rev. Curve Data
Δ = 5°-51' Rt.
D = 2°-0'
R = 2864.9
T = 146.4
L = 292.5
E = 3.7
Bank ½ per ft.
Rev. P.C. = 542+96.1
Rev. P.T. = 545+88.6
Sta. 533+28 Rt. S. Box (Remove) Removed
Sta. 537+26 Lt.
Stone Fill for Slope Protection & Channel Exc. Earth
Sta. 5+00 ℄ Stream
Sta. 537+18 ℄ Proposed Roadway
Bridge No. 21
B.M. 54-B
S.I.P. 36" Elm
El. 1060.43
Sta. 537+11.15
Widen Existing Culvert As Shown
All Existing Wing Walls to be Removed
Sta. 537+22.85
Widen Existing Culvert as Shown
Rev. P.I. = 538+19.0
Surv. P.I. = 538+19.9
Rev. P.C. = 536+38.2
Surv. P.C. = 536+38.2
Rev. P.T. = 539+55.4
Surv. P.T. = 539+55.4
Sta. 538+50 - 90° New 18" x 48' R.C.C.M.P. S.H. Inlet
Sta. 538+10 Lt. 542+03 Rt.
New 67' Perf. Asph. Old Corr. Galv. Metal Underdrain Pipe 3 at 1' Long
S.H. Outlet
Sta. 533+20 - Skew 15° Lt.
Sta. 533+10 Rt. 537+23 Rt.
6" x 4.33' Perf. R.C.C. Underdrain
S.H. Outlet
B.M. 54-A
S.I.P. 15" M
El. 1079.55
House
Rev. Curve Data
Δ = 18°-40' Rt.
D = 5°-15'
R = 1091.73
T = 179.43
L = 355.68
E = 14.65
Bank ¾ per ft.
Surv. Curve Data
Δ = 18°-40' Rt.
D = 7°-0'
R = 819.0
T = 134.6
L = 266.7
E = 11.0
Bank ¾ per ft.
Rev. Curve Data
Δ = 19°-02' Rt.
D = 6°
R = 955.4
T = 160.2
L = 317.2
E = 13.3
Sta. 537+36 Rt. to Sta. 538+65 Rt.
Limits of Stone Fill for Slope Protection, Item 521-C
Sta. 537+07 Rt. to 537+60 Rt.
Stone Fill for Bank Protection & Channel Exc. Earth
P.O.T. 539+97.4
Surv. Pt. 539+96.8
Eq. = +0.6
538+00
200' V.C.
1062.00
533+25
100' V.C.
1077.20
-3.20 %
-3.20 %
-1.62 %
-5.19 %
-2.35 %
6" Underdrain Gradient
6" Underdrain Gradient
Sta. 537 + 11.15 Begin Culvert
Sta. 537 + 22.85 End Culvert
Eq. = +0.6
541+50
400' V.C.
1056.33
N.P.S.D. = 404
545+50
300' V.C.
1035.57
Sloping Water
R. Hodge
Z. W. Esper
B.M. #55 S.I.P. 30" Elm 27' Lt. of Sta. 544+72 El. 1037.27
B.M. #54-A S.I.P. 15" Maple 43' Lt. of Sta. 533+48 El. 1079.55
B.M. #54-B S.I.P. 36" Elm 81' Lt. of Sta. 537+25 El. 1060.43
B.M. #55-1-A S.I.P. 18" Yellow Birch 37' Lt. Sta. 545+40 El. 1035.11
BARNARD-BETHEL
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

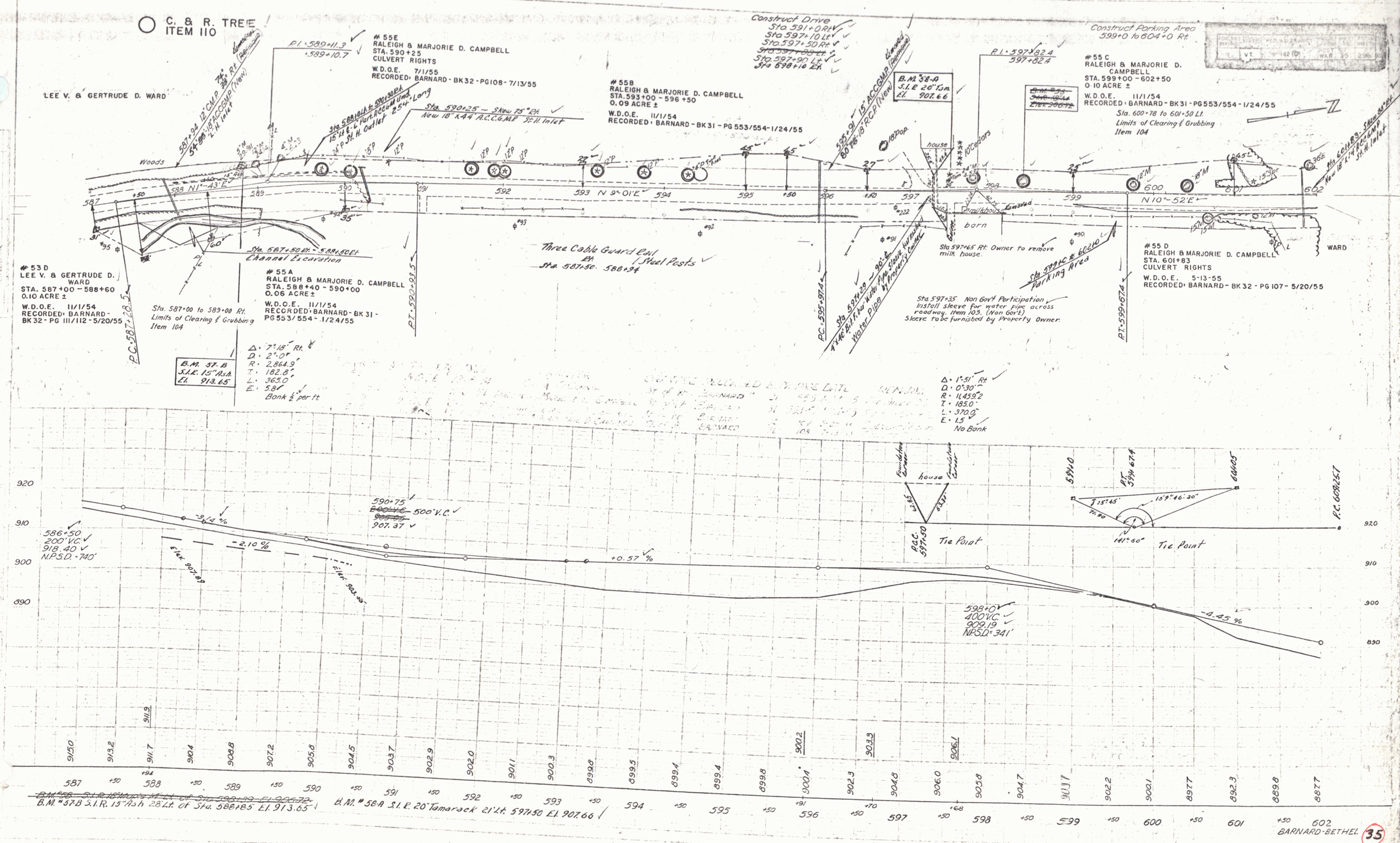

C. & R. TREE
ITEM 110
WALLACE & MARIE DE GIACOMO
Sta. 547+01 Lt. - 550+0 Lt. Parking Area
12" 15" CMP 84' Lt. (Remove)
549+48 52+00 RCP New 18"X60' R.C.P. (New)
B.M. "55-B S.I.P. 20' E El. 1027.77
52 B
FRANK A. WOODARD
STA. 551+50-564+85
0.68 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK 31-PG 537/538-1/11/55
Sta. 551+0 Lt. to 553+35 Lt. Special Ditch
Surv. DOT 553+20.8
Sta. 553+62 - Skew 60° Rt. New 18"X52' R.C.P.
"L" H. Inlet
Sta. 553+35 to 558+71 Lt. Limits of Clearing & Grubbing Item 104
B.M. "55-C S.I.T. 15" E El. 1021.33
Construct Drives
Sta. 553+0 Rt.
Sta. 559+20 Rt.
Sta. 559+90 Lt.
Sta. 553+75.15' Lt. Precast Drop Inlet Clean Out
Sta. 553+76 Lt. - 55+12 Rt. 6" Perf. PCCP Underdrain
15" H.P. Outlet 460' Long
Sta. 556+80 - Dr. Lt. New 15" H.P. R.C.P.
Sta. 557+83 - Skew 60° Rt. New 18"X84' R.C.P. - S.H. Inlet
558+24 15" RCP 84' 40' Rt. (Remove)
558+15 (Remove)
51 C
WALLACE & MARIE DE GIACOMO
STA. 542+96.1 - 550+17
0.16 ACRE ±
W.D.O.E. 11/15/54
RECORDED: BARNARD-BK 32-PG 113-5/20/55
52 A
FRANK A. WOODARD
STA. 550+12-550+94
0.007 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK 31-PG 537/538-1/11/55
Sta. 553+10 - 556+50 Rt. Parking Area
Sta. 557+50 to 558+10 Rt. Limits of Clearing & Grubbing Item 104
Sta. 558+15 to 558+45 Rt. Limits of Clearing & Grubbing Item 104
Parking Areas
Lt. Sta. 547+10 - 550+0
Rt. Sta. 553+10 - 556+50
Construct Drives
Lt. Sta. 556+80, Sta. 559+0
Rt. Sta. 553+50, Sta. 558+15
Tie Point
548+25 250' VC 1029.08
551+50 - Pat.
142° 10' 30"
551+0
R.C. 559+47.4
54.08
55.07
105.29
33.18
33.44
Center Outlet 15" R.C.P.
Center Inlet 18" R.C.P.
557+50
558+0 Pat.
146° 35'
77° 16'
6" Elm S.I.T.
18" Elm S.I.T.
6" Underdrain Clean Out
present road profile
-2.36 %
+0.48 %
-1.97 %
-1.97 %
552+25 400' VC 1031.00 N.P.S.D. = 496'
Elev. 1024.21
6" Underdrain Gradient
Elev. 1014.41
560+0 400' VC 1015.71 N.P.S.D. = 424'
1040
1030
1020
1010
1000
547 548 549 550 551 552 553 554 555 556 557 558 559
B.M. #55-B S.I.P. 20' Elm. 25' Lt. of Sta 550+15 El. 1027.77
B.M. #55-C S.I.T. 15" Elm 34' Rt of Sta 556+15 El. 1021.33
BARNARD-BETHEL
32
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS
19


C. & R. TREE
ITEM 110
Surv. P.O.T. 560+00
Sta. 559+22 to 559+90 Lt.
Limits of Clearing & Grubbing
Item 104
Sta. 563+22 to 564+70 Lt.
Limits of Clearing & Grubbing
Item 104
Sta. 564+98 to 567+03 Rt.
Limits of Clearing & Grubbing
Item 104
Sta. 567+76 - 572+07
Three Cable Guard Rail/Steel Posts
Rt.
Sta. 569+10 Rt to Sta. 570+75 Rt.
Limits of Stone Fill for Slope Protection
Item 521-C
Construct Drives
Lt.
Sta. 561+94
Sta. 565+50
Rt.
Sta. 560+20
Sta. 567+50
Sta. 559+30
Sta. 561+94
Sta. 565+50
FRANK A. WOODARD
53 A
LEE V. & GERTRUDE D. WARD
STA. 570+41-573+67
0.30 ACRE±
STA. 572+00
CULVERT RIGHTS
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK32-PG111/112
5/20/55
JOHN W. & BLANCHE W. MILLER
Land was not acquired from Property owner
52 C
FRANK A. WOODARD
STA. 564+85-570+90
0.25 ACRE±
CULVERT RIGHTS
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK31-PG 537/538-1/11/55
B.M. # 55-D
S.I.E. 18" M.
El. 1003.76
B.M. # 55-E
S.I.E. 12" E
El. 981.66
B.M. # 55-F
S.I.T. 18" E
El. 962.22
Sta. 567+15 Rt. to Sta. 571+85 Rt.
Limits of Clearing & Grubbing
Item 104
Δ = 29° 13' Rt.
D = 3° 0'
R = 1,910.1
T = 497.8
L = 973.8
E = 63.7
Bank 3/4 per ft.
EQUATION
+10.9
-1.97%
-5.22%
-2.96%
560+0
400' V.C.
1015.71
N.P.S.D. = 424'
565+95
300' V.C.
984.65
572+0
400' V.C.
966.74
N.P.S.D. 1130'
present road profile
1015.5
1015.2
1014.9
1013.6
1013.1
1011.3
1008.5
1006.0
1003.8
1001.0
998.2
995.8
995.1
993.1
990.5
987.6
984.9
984.8
981.8
979.8
978.6
977.1
976.4
975.2
973.4
970.6
967.9
965.3
963.0
962.0
960.3
559
560
561
562
563
564
565
566
567
568
569
570
571
572
B.M. # 55-D S.I.E. 18" Maple 27' Rt. of Sta. 561+75 El. 1003.76
B.M. # 55-E S.I.R. 12" Elm 38' Lt. of Sta. 567+15 El. 981.66
B.M. # 55-F S.I.T. 18" Elm 40' Rt. of Sta. 571+75 El. 962.22
BARNARD-BETHEL
33
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS
20


#53 A
LEE V. & GERTRUDE D. WARD
STA. 572+00
CULVERT RIGHTS
C. & R. TREE
ITEM 110
L = 28°-42' Lt.
D = 5°
R = 1146.3'
T = 293.3'
L = 574.9'
E = 36.9'
Bank ½ per ft.
Hor. SD 525'
P.O.S.T. 574+74.6
#54
GRACE O'CONNOR
STA. 573+32–578+50
0.66 ACRE ±
W.D.O.E. 12/8/54
RECORDED: BARNARD-BK31-PG 555-1/24/55
Three Cable Guard Rail/Steel Posts
Lt.
Sta 576+94 Lt to Sta 579+50 Lt.
Construct Drives
Lt.
Sta 578+79
Sta 579+44
Construct Drives
Rt.
Sta. 573+50
Sta. 575+75
Sta. 571+50 to 573+60 Lt.
Limits of Clearing & Grubbing
Item 104
B.M. #56-A
S.I.R. 8" E.
El. 940.37
Sta. 574+72 to 575+06 Lt
Limits of Clearing & Grubbing
Item 104
#53 C
LEE V. & GERTRUDE D. WARD
STA. 581+00–585+00
0.29 ACRE ±
STA. 583+40
CULVERT RIGHTS
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK32-PG 111/112-5/20/55
Sta. 581+10 to 586+80 Lt.
Limits of Clearing & Grubbing
Item 104
B.M. 57-A
S.I.R. 12" M.
El. 924.59
Sta. 580+14-15' Lt. Precast Drop Inlet Clean Out.
Sta. 572+85 to 573+70 Rt.
Limits of Clearing & Grubbing
Item 104
Sta. 574+56 to 575+06 Rt.
Limit of Clearing & Grubbing
Item 104
B.M. #56
S.I.R. 18" E
Elev. 964.29
PI = 574+99.0
574+86.4
Sta. 573+50 Rt. 572+76 Rt.
Parking Area
Sta. 577+27 to Sta. 578+85 Rt.
Limits of Stone Fill for Slope Protection
Item 521-C
Also for Rt. Sta. 577+40 Rt. 578+50 Rt.
Sta. 577+45 to 579+70 Rt.
Limits of Clearing & Grubbing
Item 104
Sta. 577+40 Lt to Sta. 579+20 Rt.
Channel Excavation
Item 106 A
Sta. 580+35 Rt. Owner to remove barn. not later than April 15, 1955.
Sta. 584+68 to 587+00 Rt.
Limits of Clearing & Grubbing
Item 104
#53 B
LEE V. & GERTRUDE D. WARD
STA. 576+50–581+00
0.26 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK32-PG 111/112-5/20/55
LEE V. & GERTRUDE D. WARD
present road
Profile
572+0
400' V.C.
966.74'
NPSD = 1130
-3.75 %
-3.74 %
578+0
200' V.C.
944.27
-3.61 %
582+25
400' V.C.
928.91
583+50
200' V.C.
924.40
-2.40 %
-2.473 %
-2.68 %
-3.14 %
NPSD 740
586+50
200' V.C.
918.40
B.M. #56 S.I.R. 18" Elm 70' Rt. of Sta 574+0 El. 964.29
B.M. #56-A S.I.R. 8" Elm - 25' Lt. of Sta 575+58 El. 940.37
B.M. #57-A S.I.R. 12" Maple 48' Lt. of Sta 584+75 El. 924.59
BARNARD-BETHEL
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

34

21



THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

22

C. & R. TREE
ITEM 110

#55 E
RALEIGH & MARJORIE D. CAMPBELL
STA. 590+25
CULVERT RIGHTS
W.D.O.E. 7/1/55
RECORDED: BARNARD - BK32 - PG108 - 7/13/55

#55 B
RALEIGH & MARJORIE D. CAMPBELL
STA. 593+00 - 596+50
0.09 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD - BK31 - PG553/554 - 1/24/55

#55 C
RALEIGH & MARJORIE D. CAMPBELL
STA. 599+00 - 602+50
0.10 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD - BK31 - PG553/554 - 1/24/55

#55 D
RALEIGH & MARJORIE D. CAMPBELL
STA. 601+83
CULVERT RIGHTS
W.D.O.E. 5-13-55
RECORDED: BARNARD - BK32 - PG107 - 5/20/55

#53 D
LEE V. & GERTRUDE D. WARD
STA. 587+00 - 588+60
0.10 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD - BK32 - PG 111/112 - 5/20/55

#55 A
RALEIGH & MARJORIE D. CAMPBELL
STA. 588+40 - 590+00
0.06 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD - BK 31 - PG553/554 - 1/24/55

LEE V. & GERTRUDE D. WARD

Construct Drive
Sta. 591+0 Rt.
Sta. 597+10 Lt.
Sta. 597+50 Rt.
Sta. 597+90 Lt.
Sta. 598+10 Rt.

Construct Parking Area
599+0 to 604+0 Rt.

Sta. 587+50 Lt. - 588+60 Lt.
Channel Excavation

Sta. 587+00 to 589+00 Rt.
Limits of Clearing & Grubbing
Item 104

Three Cable Guard Rail
Rt.
Sta. 587+50 - 588+94
Steel Posts

Sta. 597+35 Non Gov't Participation
Install sleeve for water pipe across roadway. Item 103. (Non Gov't)
Sleeve to be furnished by Property Owner.

Sta. 597+65 Rt. Owner to remove milk house.

Sta. 599+10 to 604+0 Parking Area

Limits of Clearing & Grubbing
Item 104

house
barn
800'±
milkhouse

Water Pipe

Δ: 7°18' Rt.
D: 2°0'
R: 2,864.9'
T: 182.8'
L: 363.0'
E: 5.8'
Bank 3.1 ft.

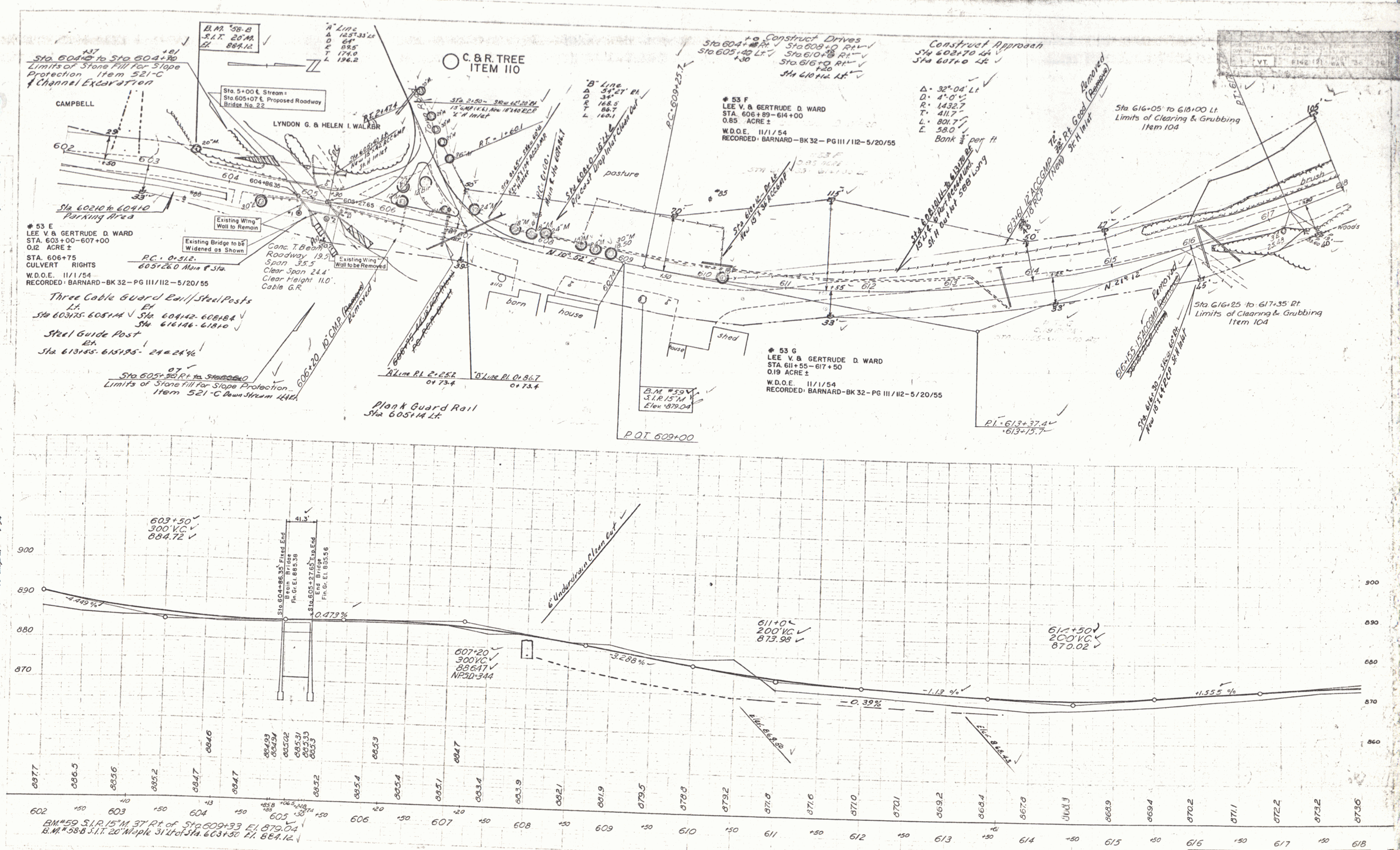
Δ: 1°51' Rt.
D: 0°30'
R: 11,459.2'
T: 185.0'
L: 370.0'
E: 1.3
No Bank

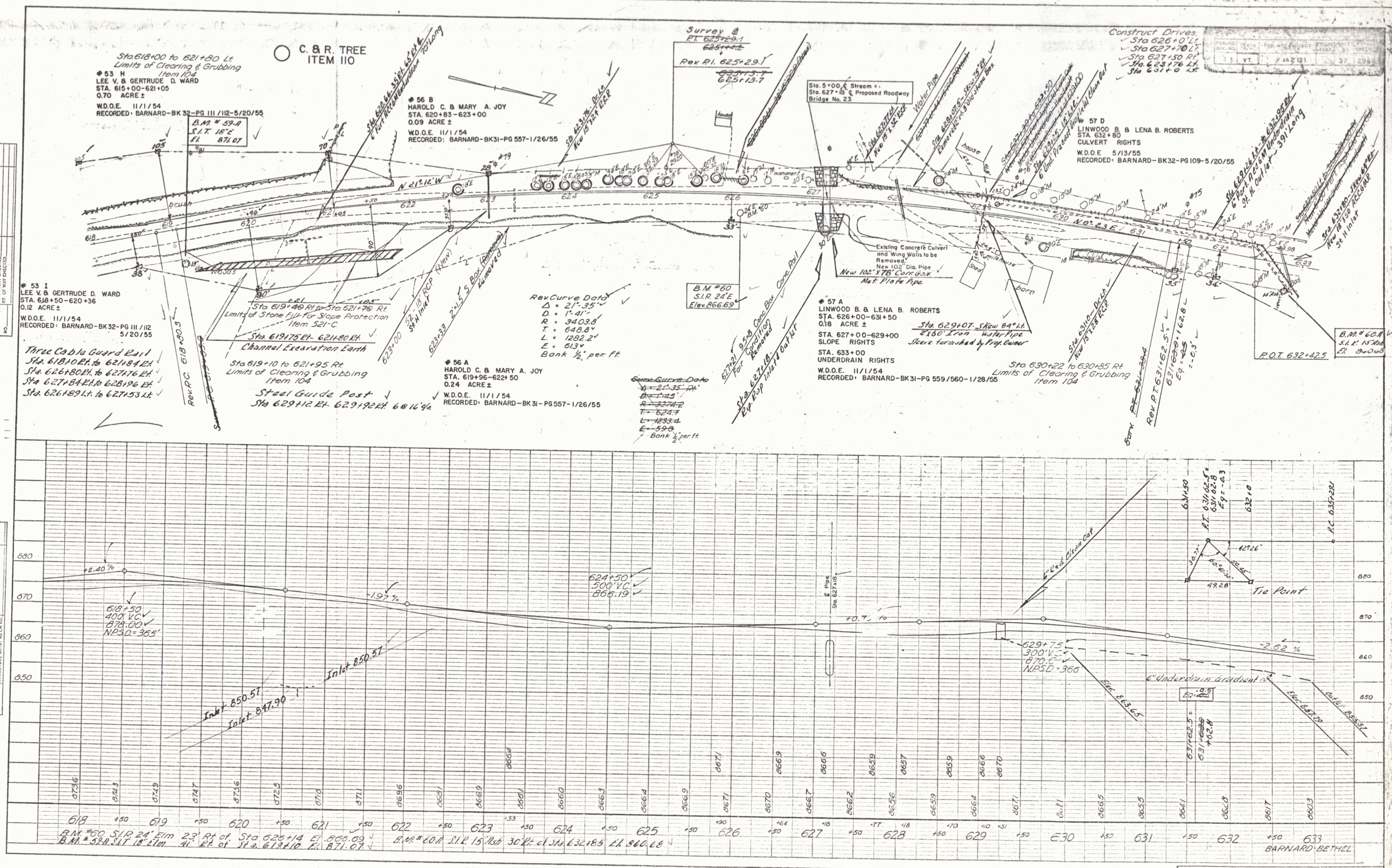
Tie Point

MAR 16 1987

THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

Prosecf F 142 (2) 99R 932


Sta. 604+37 to Sta. 604+81
Limits of Stone Fill for Slope Protection Item 521-C & Channel Excavation
B.M. #58-B S.I.T. 20" M. El. 884.12
"A" Line
Δ 12°-33' Lt
D 64°
R 89.5
T 17.0
L 196.2
C. & R. TREE ITEM 110
Sta. 5+00 ℄ Stream = Sta. 605+07 ℄ Proposed Roadway Bridge No. 22
CAMPBELL
LYNDON G. & HELEN I. WALKER
"B" Line
Δ 54°-27' Rt
D 34°
R 168.5
T 86.7
L 160.1
Construct Drives
Sta 604+0 Rt
Sta 605+40 Lt
Sta 608+0 Rt
Sta 610+0 Rt
Sta 616+0 Rt
Sta 610+12 Lt
Construct Approach
Sta 602+70 Lt
Sta 607+0 Lt
Δ = 32°-04' Lt
D = 4°-0'
R = 1,432.7
T = 411.7
L = 801.7
E = 58.0
Bank ¾" per ft
Sta 616+05 to 618+00 Lt.
Limits of Clearing & Grubbing Item 104
Sta 60210 to 60410 Parking Area
53 E
LEE V. & GERTRUDE D. WARD
STA. 603+00-607+00
0.12 ACRE ±
STA. 606+75 CULVERT RIGHTS
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK 32-PG 111/112-5/20/55
Existing Wing Wall to Remain
Existing Bridge to be Widened as Shown
Existing Wing Wall to be Removed
Conc. T. Beam Roadway 19.5' Span 35.5' Clear Span 24.4' Clear Height 11.0' Cable G.R.
P.C. = 0+51.2 605+26.0 Main ℄ Sta.
Three Cable Guard Rail/Steel Posts
Lt. Sta 603+75-605+14
Rt. Sta. 604+42-608+84
Sta. 616+46-618+10
Steel Guide Post
Rt. Sta. 613+55-615+95 - 24 @ 24'c/c
Sta 605+07 Rt. to Sta 606+40
Limits of Stone fill for Slope Protection Item 521-C Down Stream Left
606+20 10" CMP (Removed) Removed
"A" Line P.I. 2+25.2 O+73.4
"B" Line P.I. 0+86.7 O+73.4
Plank Guard Rail Sta 605+14 Lt.
Sta 2+50 - Install 62'-20" Rt 13" CMP (4'-6") New 18" & 40 RCP 4' H Inlet
Sta 0+65 - Install 62'-0" Rt 4'-4" H Inlet RCCGMP
P.C. = 0+00 Main ℄ Sta 608+86.1
Sta 608+0 - 18" Lt & Rt Install Drop Inlet Clean Out
P.C. = 609+25.7
pasture
born
house
silo
shed
B.M. #59 S.I.R. 15" M. Elev. 879.04
P.O.T. 609+00
53 F
LEE V. & GERTRUDE D. WARD
STA. 606+89-614+00
0.85 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK 32-PG 111/112-5/20/55
Sta 606+10 to 613+70 Rt 15" Lt & 18" Rt Install Port Rectangular St. H Out lot 588' Long
Sta 607+0 - Install New 15" & 38" RCCGMP
613+61 12" ACCGMP 72' Rt. Good (Removed) 18" RCP (New) St. H Inlet
Sta 616+55 15" ACCGMP (Removed) Removed
Sta 616+30 - Install New 18" & 24" RCP St. H Inlet
53 G
LEE V. & GERTRUDE D. WARD
STA. 611+55-617+50
0.19 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK 32-PG 111/112-5/20/55
P.I. = 613+37.4
613+15.7
Sta. 616+25 to 617+35 Rt.
Limits of Clearing & Grubbing Item 104
brush
woods
N 10°-52' E
N 21°-12'
603+50
300' V.C.
884.72
Sta 604+86.35 Fixed End Begin Bridge Fin. Gr. El. 885.38
Sta 605+27.65 Exp. End End Bridge Fin. Gr. El. 885.56
41.3'
-4.449 %
+0.473 %
6" Underdrain Clean out
607+20
300' V.C.
885.47
NPSD-344
-3.288 %
611+0
200' V.C.
873.98
-1.13 %
-0.39 %
614+50
200' V.C.
870.02
+1.555 %
Elev. 868.88
Elev. 868.43
BM #59 S.I.R. 15" M. 37' Rt of Sta 609+33 El. 879.04
B.M. #58-B S.I.T. 20" Maple 31' Lt of Sta. 603+50 El. 884.12
BARNARD-BETHEL
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS
36
23


C. & R. TREE ITEM 110
Sta 618+00 to 621+80 Lt.
Limits of Clearing & Grubbing
Item 104
#53 H
LEE V. & GERTRUDE D. WARD
STA. 615+00-621+05
0.70 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK 32-PG 111/112-5/20/55
#56 B
HAROLD C. & MARY A. JOY
STA. 620+83-623+00
0.09 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK31-PG 557-1/26/55
Survey @
PT. 625+29.1
Rev. Pl. 625+29.1
625+13.7
Sta. 5+00 ℄ Stream =
Sta. 627+18 ℄ Proposed Roadway
Bridge No. 23
Construct Drives:
Sta 626+0' Lt.
Sta 627+70' Lt.
Sta 627+50 Rt.
Sta. 623+76 Lt.
Sta 631+0 Lt.
#57 D
LINWOOD B. & LENA B. ROBERTS
STA. 632+60
CULVERT RIGHTS
W.D.O.E. 5/13/55
RECORDED: BARNARD-BK32-PG 109-5/20/55
#53 I
LEE V. & GERTRUDE D. WARD
STA. 618+50-620+36
0.12 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK32-PG 111/112
5/20/55
Three Cable Guard Rail
Sta. 618+10 Rt. to 621+84 Rt.
Sta. 626+80 Rt. to 627+76 Rt.
Sta 627+84 Rt. to 628+96 Rt.
Sta. 626+89 Lt. to 627+53 Lt.
Sta 619+40 Rt. to Sta. 621+79 Rt.
Limits of Stone Fill for Slope Protection
Item 521-C
Sta. 619+75 Rt. - 621+80 Rt.
Channel Excavation Earth
Sta. 619+10 to 621+95 Rt.
Limits of Clearing & Grubbing
Item 104
Steel Guide Post
Sta 629+12 Rt. 629+92 Rt. @ 16'-9"
#56 A
HAROLD C. & MARY A. JOY
STA. 619+96-622+50
0.24 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK31-PG 557-1/26/55
Rev. Curve Data
Δ = 21°-35'
D = 1°-41'
R = 3403.8'
T = 648.8'
L = 1282.2'
E = 61.3'
Bank ½" per ft.
Existing Concrete Culvert and Wing Walls to be Removed.
New 102" Dia. Pipe
New 102" X 76' Conc. Gnx.
Met. Plate Pipe
#57 A
LINWOOD B. & LENA B. ROBERTS
STA. 626+00-631+50
0.18 ACRE ±
STA. 627+00-629+00
SLOPE RIGHTS
STA. 633+00
UNDERDRAIN RIGHTS
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK31-PG 559/560-1/28/55
Sta 629+07 Skew 84° Lt.
2"-60' Iron Water Pipe
Sheet furnished by Prop. Owner
Sta 630+22 to 630+85 Rt.
Limits of Clearing & Grubbing
Item 104
B.M. #60
S.I.R. 24" E
Elev. 866.69
B.M. #60 A
S.I.R. 15" Rsh
Elev. 860.68
P.O.T. 632+42.5
Rev. P.C. 618+30.3
Rev. P.T. 631+62.5
Tie Point
Inlet 850.51
Inlet 847.90
+2.40 %
-1.97 %
-2.62 %
618+50
400' V.C.
879.00
N.P.S.D. = 365'
624+50
500' V.C.
866.19
629+75
300' V.C.
870.00
N.P.S.D. = 366
Elev. 863.65
6" Underdrain Gradient
618 +50 619 +50 620 +50 621 +50 622 +50 623 +50 624 +50 625 +50 626 +50 627 +50 628 +50 629 +50 630 +50 631 +50 632 +50 633
BARNARD-BETHEL
PLATE 1 - PLAN-PROFILE O.P.R. & R.C. STANDARD
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS
37

24

DIV. NO.	STATE	FED. AND PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	VT	F 142(2)	38	296

C. & R. TREE
ITEM 110

57 E
LINWOOD B. & LENA B. ROBERTS
STA. 635+25-636+25
SLOPE RIGHTS
W.D.O.E. 5/13/55
RECORDED: BARNARD-BK 32-PG 109-5/20/55

57 C
LINWOOD B. & LENA B. ROBERTS
STA. 635+29.1-645+00
0.21 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK31-PG 559/560-1/28/55

57 B
LINWOOD B. & LENA B. ROBERTS
STA. 632+00-638+94
0.48 ACRE ±
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK31-PG 559/560-1/28/55

58 A
ANDREW W. & DORIS E. DAVIS
STA. 640+50-645+00
0.23 ACRE ±
COND. 9/17/54
RECORDED: BARNARD-BK31-PG 479/495-9/17/54

58 B
ANDREW W. & DORIS E. DAVIS
STA. 645+00-647+55
0.04 ACRE ±
COND. 9/17/54
RECORDED: BARNARD-BK31-PG 479/495-9/17/54

58 C
ANDREW W. & DORIS E. DAVIS
STA. 640+50-645+00
SLOPE RIGHTS
STA. 645+00
DRAINAGE RIGHTS
W.D.O.E. 12/16/55
RECORDED: BARNARD-BK32 PG 134-2/3/56

Sta. 633+05 to 636+40 Rt.
Limits of Clearing & Grubbing
Item 104

Sta. 636+80 to 639+50
Limits of Sub-Base of Sand
Item 202

Three Cable Guard Rail/Steel Posts Sta. 641+20 to 643+75 Rt.
Lt. Limits of Clearing & Grubbing
Sta. 632+85-644+73 Item 104

Δ = 25°-36' Rt.
D = 2°-15'
R = 2546.6
T = 578.5
L = 1137.7
E = 64.9
Bank ℄ per ft.

B.M. #60-B
S.I.R. 24" M.
El. 849.24

B.M. #61-A
Spot on Bou.
El. 854.72

Construct Drive
Sta. 645+30 Rt.
Sta. 645+85 Lt.

Sta. 635+25
200' V.C.
855.61

Sta. 642+50
200' V.C.
850.94
NPSD = 538'

Sta. 646+0
300' V.C.
842.87

-2.62 %
-0.644 %
-1.1 %
-0.72 %
-2.308 %
+0.547 %
-1.00 %
-1.36 %
-2.43 %

Elev. 849.24
Elev. 848.62
Elev. 845.09
Elev. 846.80
Elev. 837.14
Elev. 834.39
Elev. 832.92
Outlet Elev. 830.25
Elev. 836.0

B.M. #60-B S.I.R. 24" Maple 22' Rt. of Sta 638+36 El. 849.24
B.M. #61-A Spot on Boulder 40' Lt. of Sta 643+20 El. 854.72

BARNARD-BETHEL

38

THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

25

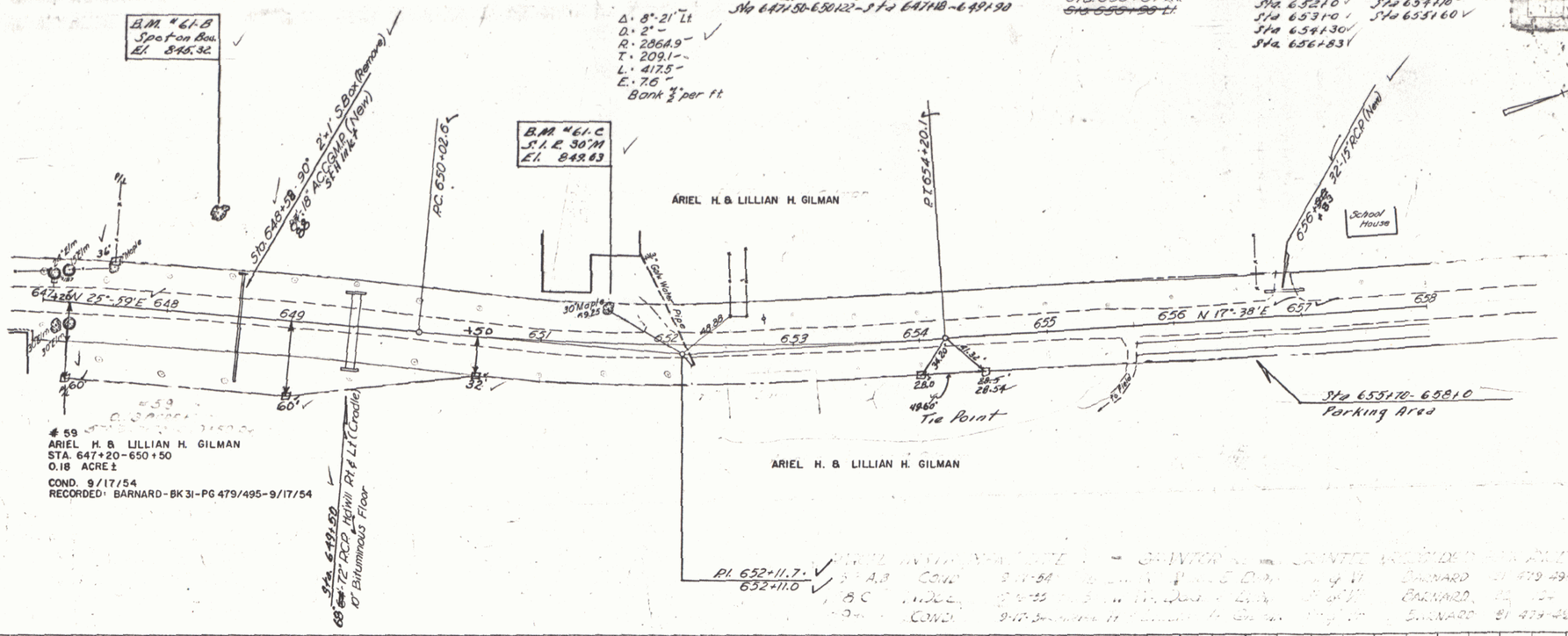
PUB. RT. DIV. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	TOTAL SHEETS
1	VT	F 142 (2)	FOST WAR 39	296

Three Cable Guard Rail / Steel Posts
Lt. ✓ Rt.
Sta 647+50-650+22 - Sta 647+18-649+90

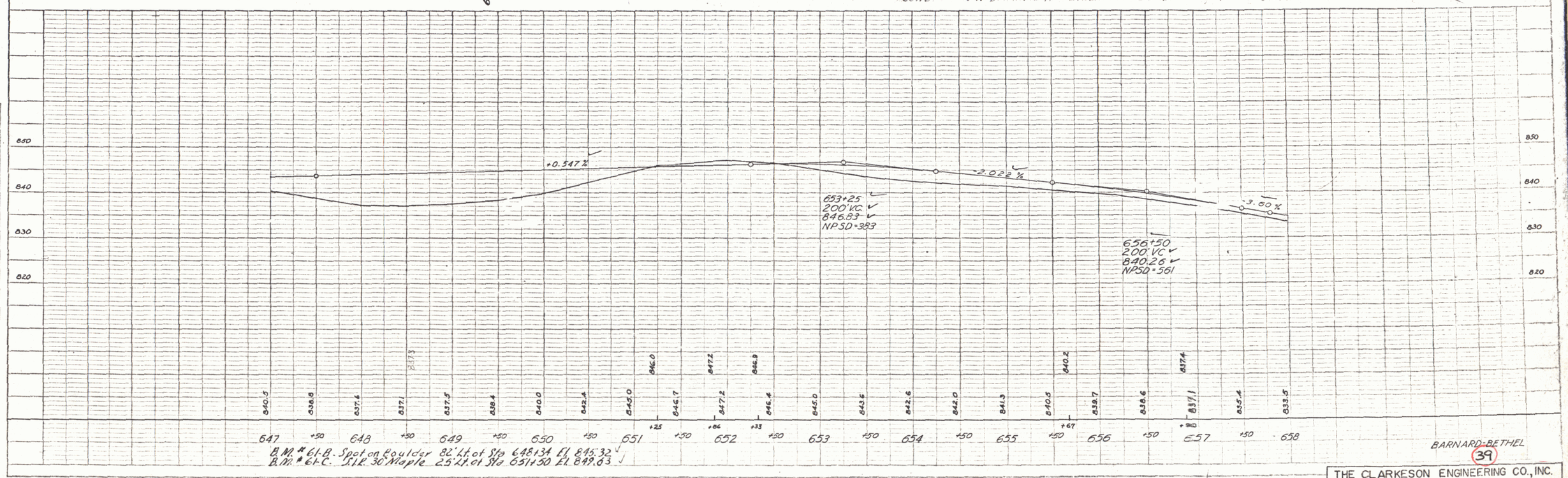
~~Construct Drives~~
~~Sta 651+95 Lt.~~
~~Sta 655+67 Rt.~~
~~Sta 656+99 Lt.~~

Construct Drives
Lt. Rt.
Sta 652+10 Sta 654+10
Sta 653+10 Sta 655+60
Sta 654+30
Sta 656+83

Δ: 8°-21' Lt
D: 2°-
R: 2864.9
T: 209.1
L: 417.5
E: 7.6
Bank ¾" per ft.



#59
ARIEL H. & LILLIAN H. GILMAN
STA. 647+20-650+50
0.18 ACRE ±
COND. 9/17/54
RECORDED: BARNARD-BK 31-PG 479/495-9/17/54

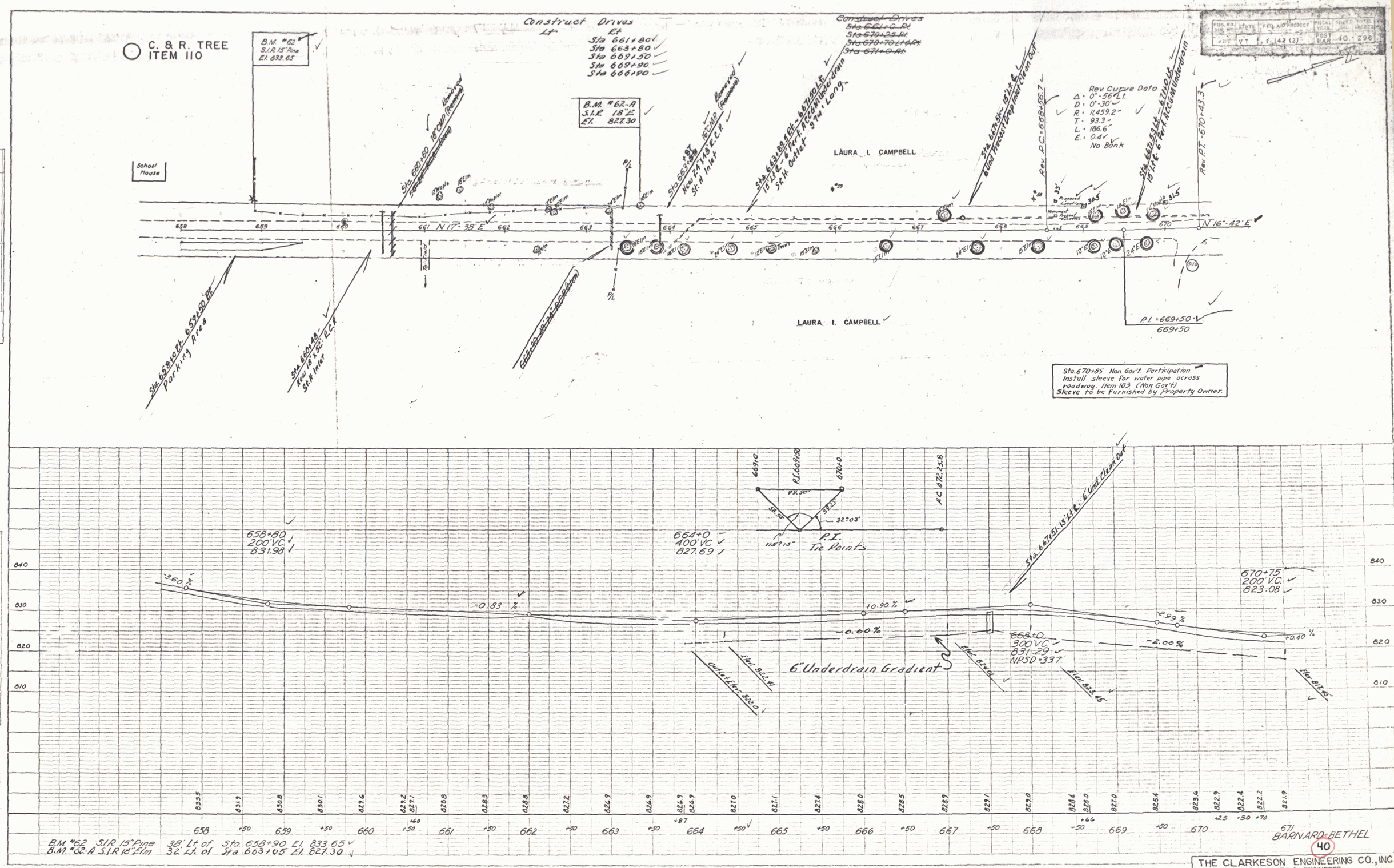


BARNARD-BETHEL
39

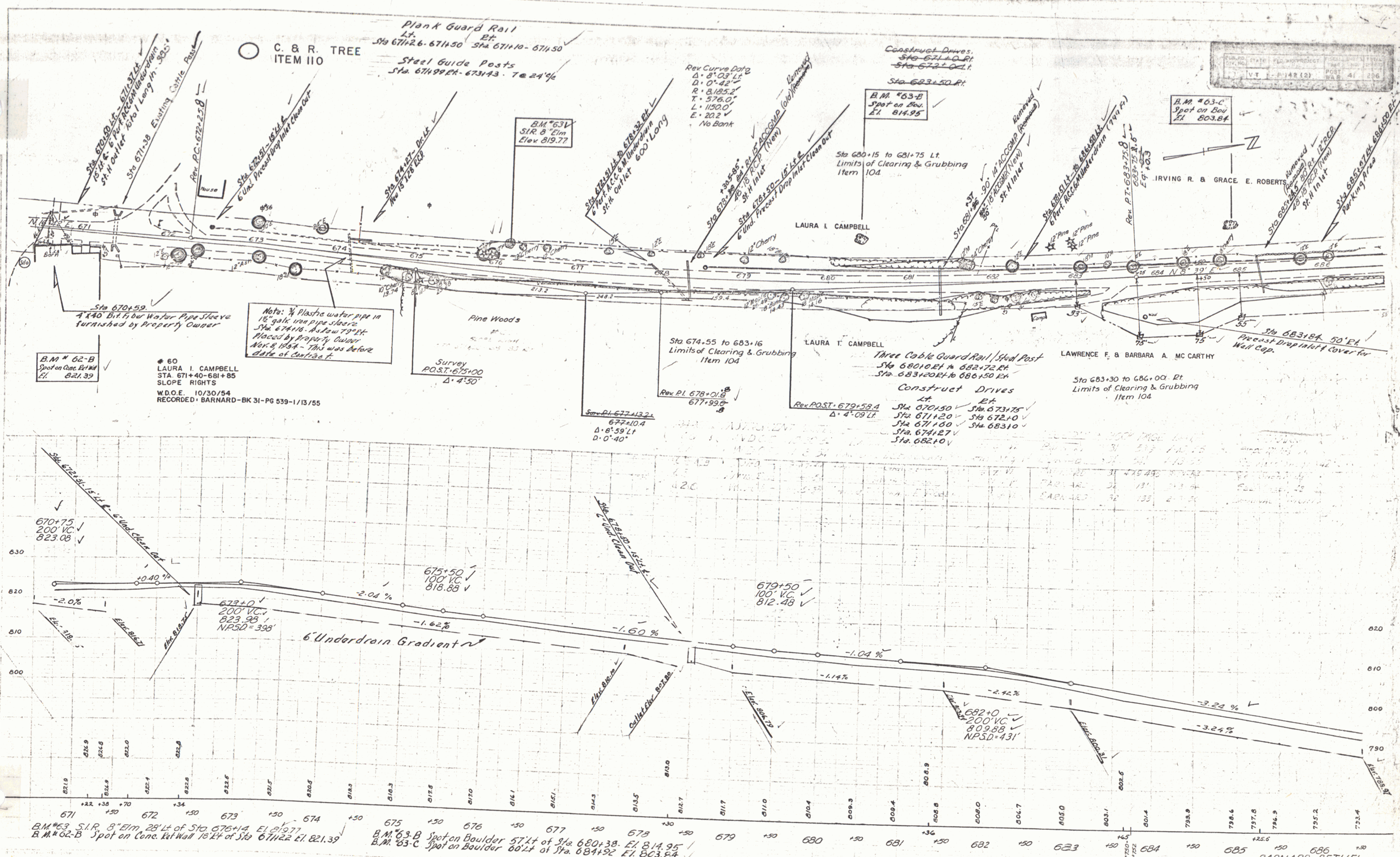
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

26

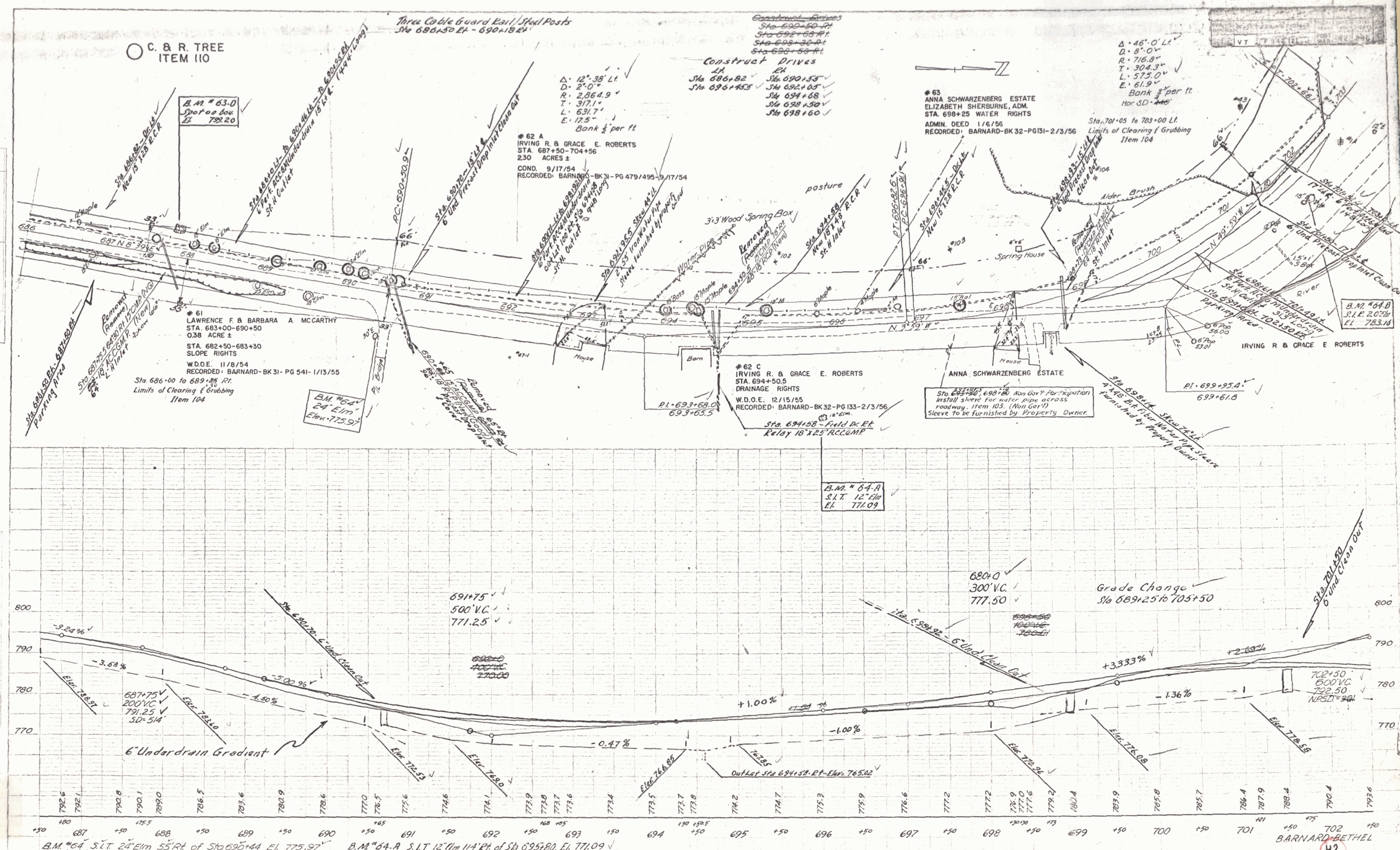
PUB. RD. DIV. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	VT	F (42 (2)	POST WAR	40	296

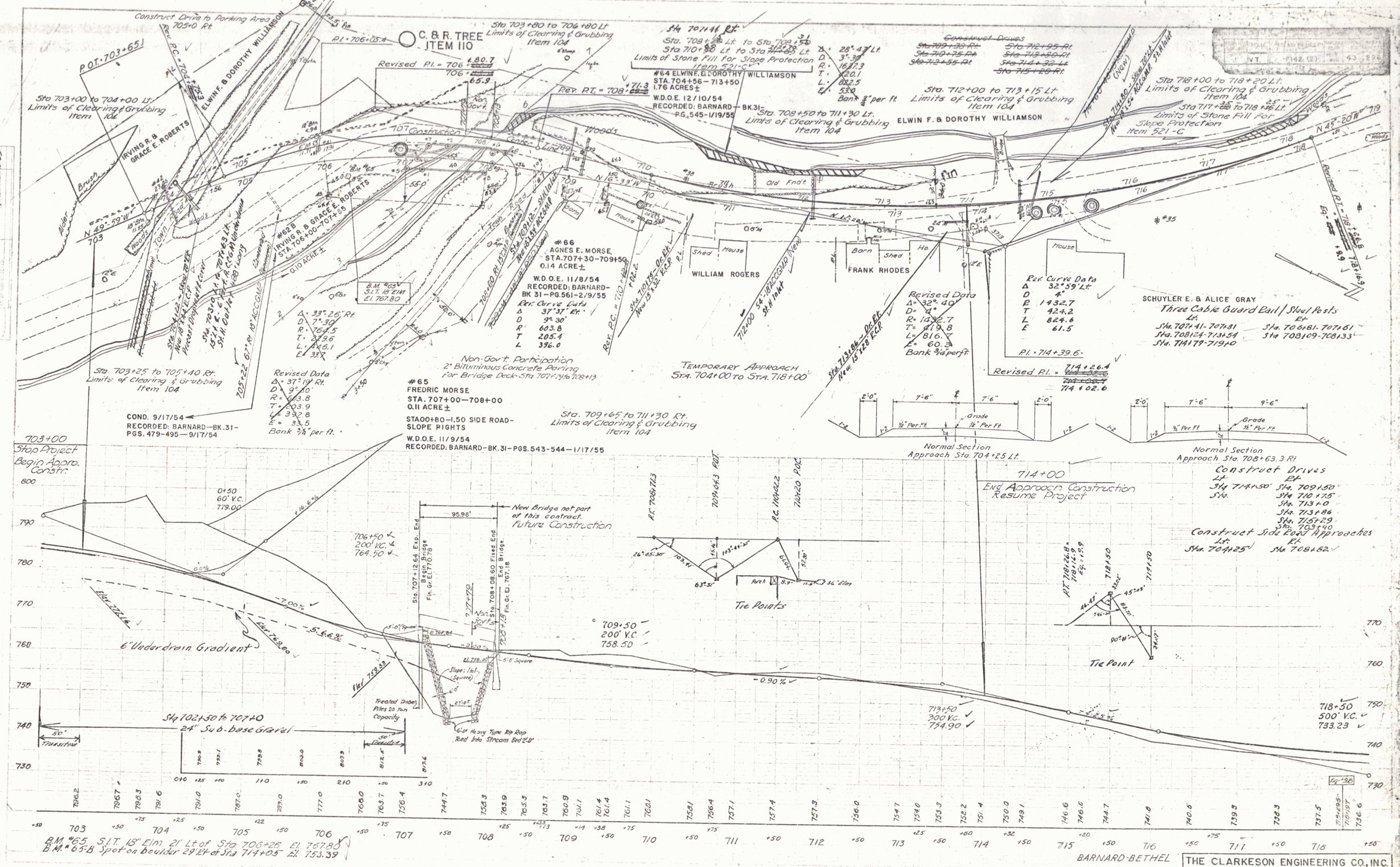


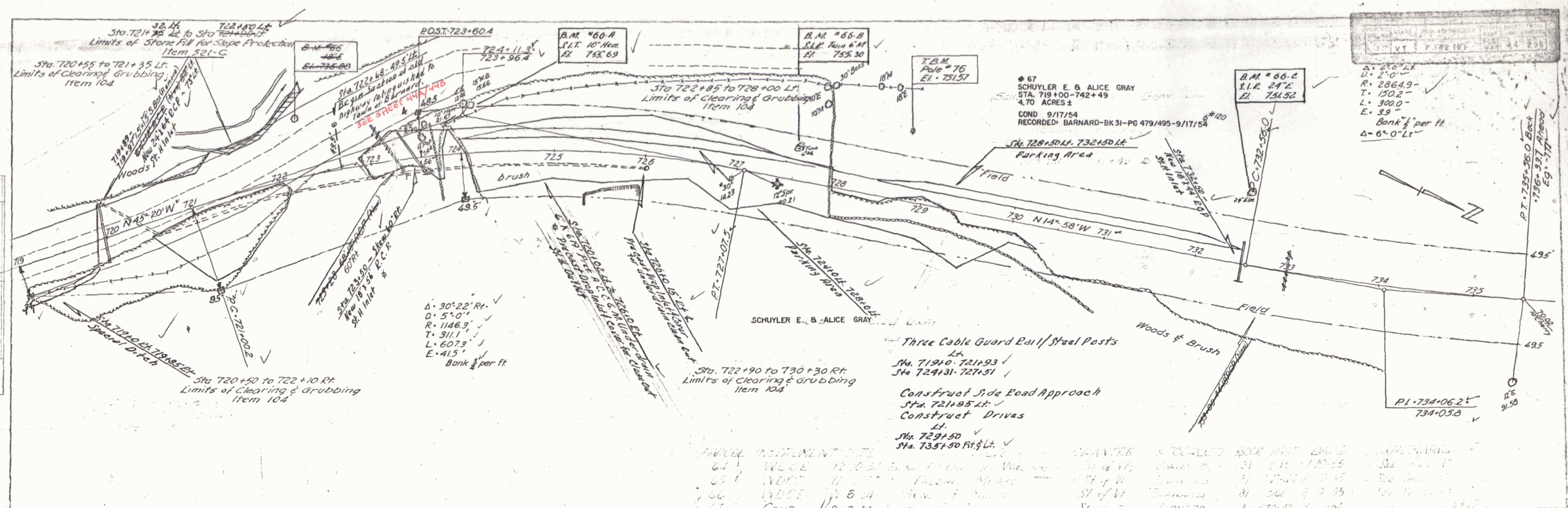
27


Plank Guard Rail
Lt. Sta 671+26 - 671+50
Rt. Sta 671+10 - 671+50
Steel Guide Posts
Sta. 671+99 Rt. - 673+43 . 7 @ 24"c/c
C. & R. TREE
ITEM 110
Sta 670+59 Lt. - 671+37 Lt.
15'Lt. & 6" Perf. ACC & M Underdrain
St. H Outlet total Long in - 385'
Sta 671+38 Existing Cattle Pass
Rev. PC - 672+25.8
Sta 672+51 - 15'Lt. & 6" Und. Precast Drop Inlet Clean Out
Sta 674+27 - Dr. Lt.
New 15"x28" RCP
B.M. #63
S.I.R. 8" Elm
Elev. 819.77
Sta 677+51 Lt. to 678+32 Rt.
6" Perf. ACC & M. Underdrain
St. H Outlet 600' Long
Rev. Curve Data
Δ = 8°-03' Lt.
D = 0°-42'
R = 8,185.2'
T = 576.0'
L = 1150.0'
E = 20.2
No Bank
+30.5-85'
Sta 678+38 Est. Rt. 15" ACCGMP (old) (Removed)
16"x18" RCP (New)
St. H Inlet
Sta 678+50 - 15' Lt. & 6" Und. Precast Drop Inlet Clean Out
Construct Drives.
~~Sta 671+0 Rt~~
~~Sta 672+0 Lt.~~
Sta 683+50 Rt.
B.M. #63-B
Spot on Bou.
El. 814.95
Sta 680+15 to 681+75 Lt.
Limits of Clearing & Grubbing
Item 104
LAURA I. CAMPBELL
Sta 681+90 - 90' Lt. 14" ACCGMP (Removed)
16"x18" RCP (New)
St. H Inlet
Sta 681+61 Lt. to 686+50 Lt.
6" Perf. ACC & M Underdrain (1941 Ft.)
Rev. PT - 683+75.8
683+75 N.6
Eq. +0.3
B.M. #63-C
Spot on Bou
El. 803.84
IRVING R. & GRACE E. ROBERTS
Sta 683+45 Removed (Removed)
28"x18" RCP Rt. 12" RCP
St. H In Lt
Sta 683+67 Rt. 684+50 Rt.
Parking Area
Sta 670+59.
4" x 40' Bit. Fiber Water Pipe Sleeve
Furnished by Property Owner
Note: 3/4" Plastic water pipe in 18" galv. iron pipe sleeve
Sta. 674+16 - As staw 79° Rt.
Placed by Property Owner
Nov. 8, 1954 - This was before date of Contract.
B.M. # 62-B
Spot on Conc. Ret Wall
El. 821.39
60
LAURA I. CAMPBELL
STA. 671+40 - 681+85
SLOPE RIGHTS
W.D.O.E. 10/30/54
RECORDED: BARNARD - BK 31 - PG 539 - 1/13/55
Pine Woods
Survey
P.O.S.T. 675+00
Δ = 4°-50'
Sta 674+55 to 683+16
Limits of Clearing & Grubbing
Item 104
Rev. P.I. 678+01.8
677+99.8
Sta. P.I. 677+13.2
677+10.4
Δ = 8°-59' Lt
D = 0°-40'
LAURA I. CAMPBELL
Rev. P.O.S.T. 679+58.4
Δ = 4°-09' Lt.
Three Cable Guard Rail / Steel Post
Sta 680+0 Rt. to 682+72 Rt.
Sta. 683+20 Rt. to 686+50 Rt.
Construct Drives
Lt.
Sta. 670+50
Sta 671+20
Sta 671+60
Sta. 674+27
Sta. 682+0
Rt.
Sta. 673+75
Sta 672+0
Sta. 683+0
LAWRENCE F. & BARBARA A. MC CARTHY
Sta 683+30 to 686+00 Rt.
Limits of Clearing & Grubbing
Item 104
Sta 683+84 50' Rt.
Precast Drop Inlet + Cover for Well Cap.
Sta 672+51 - 15' Lt. & 6" Und. Clean Out
670+75
200' VC
823.08
+0.40 %
-2.0%
Elev. 818.7
Elev. 816.7
Elev. 818.7
673+0
200' VC
823.98
NPSD = 398'
-2.04 %
-1.62%
6" Underdrain Gradient
675+50
100' VC
818.88
Sta 678+50 - 15' Lt. & 6" Und. Clean Out
-1.60 %
Elev. 810.0
Outlet Elev. 807.80
679+50
100' VC
812.48
-1.04 %
-1.14%
Elev. 804.79
682+0
200' VC
809.88
NPSD = 431'
-2.42%
Elev. 800.3
-3.24 %
-3.24%
Elev. 788.94
B.M. #63 S.I.R. 8" Elm 28' Lt of Sta 676+14 El. 819.77
B.M. #62-B Spot on Conc. Ret Wall 18' Lt of Sta 671+22 El. 821.39
B.M. #63-B Spot on Boulder 57' Lt of Sta 680+38. El. 814.95
B.M. #63-C Spot on Boulder 60' Lt of Sta. 684+92 El. 803.84
BARNARD - BETHEL
41
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON
MASSACHUSETTS

28


C. & R. TREE
ITEM 110
Three Cable Guard Rail/Steel Posts
Sta 686+50 Lt - 690+18 Lt
B.M. #63-D
Spot on bou.
El 789.20
Sta. 686+82 - Dr. Lt
New 15" RCP
Sta 686+10 Lt to 690+46 Lt - to 690+55 Rt
6" Perf. Acc. Underdrain
St. H Outlet
Sta. 690+70 - 18" Lt
6" Und. Precast Drop Inlet Clean Out
Sta. 690+50.9
PC: 690+50.9
Sta. 690+70 to 698+92
6" Perf. Acc. Underdrain
Out Let Inlet Sta 694+70
St. H. Outlet
Sta 694+95.5 Steel 44" Lt.
2.55 Iron Water Pipe
Steel turnstile by property owner
Sta. 694+58 - 18" Rt
New 18" RCP
St. H Inlet
PT: 696+82.6
PC: 696+91
Sta 694+45.5 - Dr. Lt
New 15" RCP
Sta 694+35 - 15" Lt
6" Und. Precast Drop Inlet
Clean Out
Sta. 698+35 - 15" Lt
6" Und. Precast Drop Inlet
Clean Out
Sta 698+35 - 15" Lt
6" Und. Precast Drop Inlet
Clean Out
Sta 698+61 Rt
6" Perf. Acc. Underdrain
St. H Inlet
Sta 698+61 Lt
6" Perf. Acc. Underdrain
St. H Out

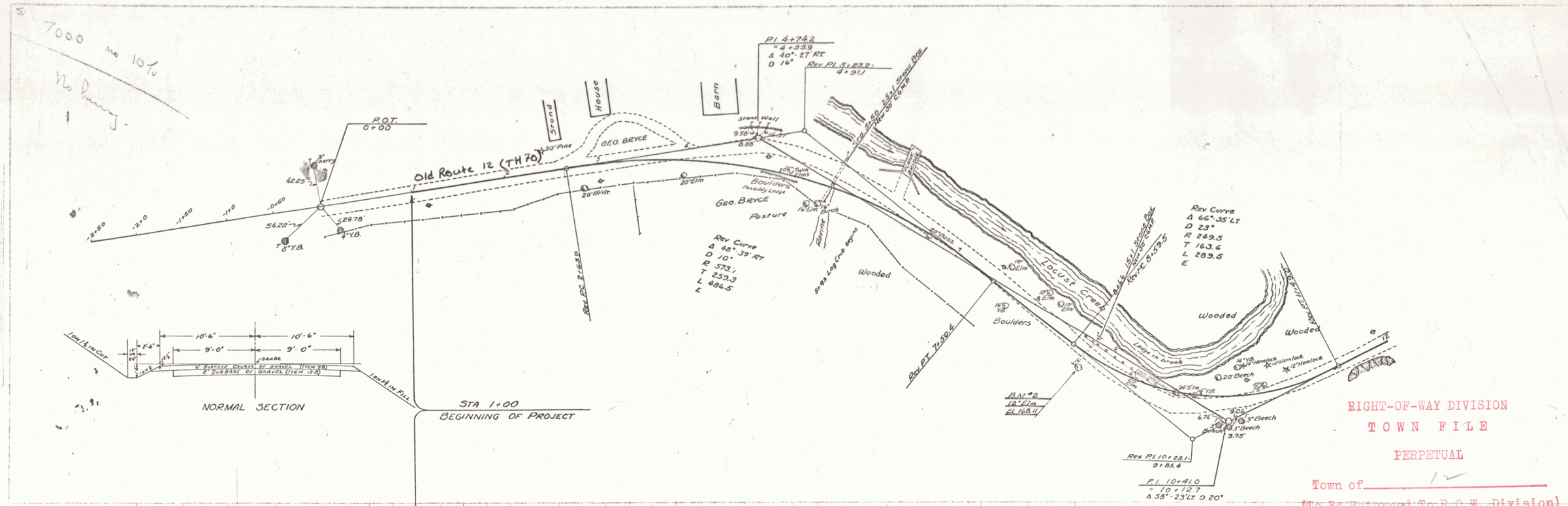

Construct Drive to Parking Area 705+0 Rt
C. & R. TREE ITEM 110
Sta 703+80 to 706+80 Lt Limits of Clearing & Grubbing Item 104
Sta 707+46 Rt
Sta. 708+65 Lt. to Sta. 709+50 Lt
Sta 710+50 Lt to Sta 711+35 Lt
Limits of Stone Fill for Slope Protection Item 521-C
#64 ELWIN F. & DOROTHY WILLIAMSON
STA. 704+56 – 713+50
1.76 ACRES±
W.D.O.E. 12/10/54
RECORDED: BARNARD – BK.31 – P.G. 545 – 1/19/55
Sta. 709+50 to 711+30 Lt. Limits of Clearing & Grubbing Item 104
ELWIN F. & DOROTHY WILLIAMSON
Sta. 712+00 to 713+15 Lt Limits of Clearing & Grubbing Item 104
Sta 718+00 to 718+20 Lt. Limits of Clearing & Grubbing Item 104
Sta 717+25 to 718+25 Lt. Limits of Stone Fill For Slope Protection Item 521-C
Sta. 703+00 to 704+00 Lt. Limits of Clearing & Grubbing Item 104
IRVING R. & GRACE E. ROBERTS
#62B IRVING R. & GRACE E. ROBERTS STA. 706+00–707+25 0.10 ACRE±
#66 AGNES E. MORSE STA. 707+30–709+50 0.14 ACRE±
W.D.O.E. 11/8/54
RECORDED: BARNARD – BK. 31 – PG. 561 – 2/9/55
Sta. 703+25 to 705+40 Rt. Limits of Clearing & Grubbing Item 104
#65 FREDRIC MORSE STA. 707+00–708+00 0.11 ACRE±
STA 00+80 – 1.50 SIDE ROAD – SLOPE RIGHTS
W.D.O.E. 11/9/54
RECORDED: BARNARD – BK. 31 – PGS. 543–544 – 1/17/55
COND. 9/17/54
RECORDED: BARNARD – BK. 31 – PGS. 479–495 – 9/17/54
Non-Gov't Participation 2" Bituminous Concrete Paving For Bridge Deck Sta 707+96 to 708+13
Sta. 709+65 to 711+30 Rt. Limits of Clearing & Grubbing Item 104
TEMPORARY APPROACH STA. 704+00 TO STA. 718+00
WILLIAM ROGERS
FRANK RHODES
SCHUYLER E. & ALICE GRAY
Three Cable Guard Rail / Steel Posts
Lt. Sta. 707+41–707+81 Sta. 708+24–713+54 Sta. 714+79–719+0
Rt. Sta. 706+81–707+61 Sta 708+09–708+33
Revised Data Δ 32° 40' D 4° R 1432.7 T 424.2 L 824.6 E 61.5 Bank ¾" per ft.
Ref. Curve Data Δ 32° 59' Lt. D 4° R 1432.7 T 424.2 L 824.6 E 61.5
P.I. = 714+39.6
Revised P.I. = 714+02.6
Normal Section Approach Sta. 704+25 Lt.
Normal Section Approach Sta. 708+63.3 Rt
Construct Drives Lt. Sta 714+50 Rt. Sta 709+50, Sta 710+75, Sta 713+0, Sta 713+86, Sta 715+29, Sta 719+40
Construct Side Road Approaches Lt. Sta 704+25 Rt. Sta 708+62
Stop Project Begin Approx. Constr.
End Approach Construction Resume Project
New Bridge not part of this contract. Future Construction
Begin Bridge Fin. Gr. El. 770.78
End Bridge Fin. Gr. El. 767.18
Tie Points
6" Underdrain Gradient
Sta 702+50 to 707+0 24" Sub-base Gravel
Treated Timber Piles 20 Ton Capacity
6'0" Heavy Type Rip Rap Toed Into Stream Bed 2'-8"
706+50 200' V.C. 764.50
709+50 200' V.C. 758.50
713+50 300' V.C. 754.90
718+50 500' V.C. 733.23
-7.00%
-5.66%
-2.00%
-0.90%
+2.25%
B.M. #65 S.I.T. 18" Elm 21' Lt of Sta 706+26 El 767.80
B.M. #65-B Spot on boulder 29' Lt of Sta 714+05 El 753.39
BARNARD-BETHEL
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

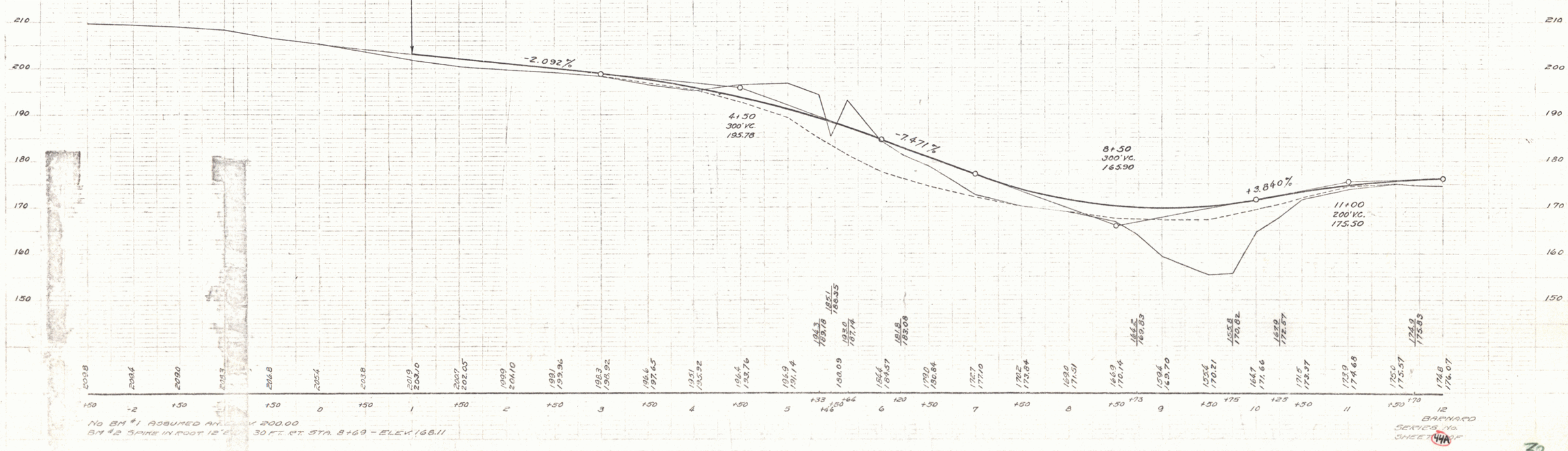

Sta. 721+32 Lt. to Sta 722+80 Lt.
Limits of Stone Fill for Slope Protection
Item 521-C
Sta. 720+55 to 721+35 Lt.
Limits of Clearing & Grubbing
Item 104
B.M. #65
495
El. 735.08
P.O.S.T. 723+60.4
724+11.3
723+96.4
B.M. #66-A
S.I.T. 10" Hem.
El. 753.69
Sta. 722+68. 49.5' Lt.
Begin Section of old highway to be relinquished to Town of Barnard
See Sheet 44A/44B
Sta. 722+85 to 728+00 Lt.
Limits of Clearing & Grubbing
Item 104
B.M. #66-B
S.I.R. Twin 6" M
El. 755.30
T.B.M.
Pole #76
El. 751.57
#67
SCHUYLER E. & ALICE GRAY
STA. 719+00-742+49
4.70 ACRES ±
COND 9/17/54
RECORDED: BARNARD-BK 31-PG 479/495-9/17/54
Sta. 728+50 Lt. 732+50 Lt.
Parking Area
B.M. #66-C
S.I.R. 24" L
El. 751.52
Δ = 6°0' Lt.
L = 2°0' Lt.
R = 2864.9'
T = 150.2'
L = 300.0'
E = 3.9'
Bank ¼" per ft.
Δ = 6°0' Lt.
Sta. 732+50 New 18" x 44' RCP St. H Inlet
C-732+56.0
P.T. 735+36.0 Back
736+33.7 Ahead
Eq. -17
Sta. 719+92 19'-97'-55'-55' Bal. (Existing)
New 24'x64' RCP - 75' Lt.
St. H Inlet
Woods
Sta. 720 N 45° 20' W 721
Sta. 722+50 - Steel 30' Rt.
New 18" x 56' R.C.R.
St. H Inlet
Sta. 723+50 - Steel 30' Rt.
60' Rt.
Δ = 30°22' Rt.
D = 5°0'
R = 1146.3'
T = 311.1'
L = 607.3'
E = 41.5'
Bank ¾" per ft.
Sta. 719+10 Lt. 719+85 Lt.
Special Ditch
Sta. 720+50 to 722+10 Rt.
Limits of Clearing & Grubbing
Item 104
Sta. 720+10 Lt. to 720+10 Rt.
6" x 19' Pipe R.C.C.P. Under Drive
St. H Drainage Drop Inlet Center Line Cut
Sta. 720+10 - 18" Lt.
New 18" x 44' RCP Under Drive Clean Out
P.T. 727+07.5
Sta. 728+10 Lt. 728+10 Rt.
St. H Inlet Drive
SCHUYLER E. & ALICE GRAY
Three Cable Guard Rail/Steel Posts
Lt.
Sta. 719+0 - 721+93
Sta. 724+31 - 727+51
Construct Side Road Approach
Sta. 721+85 Lt.
Construct Drives
Lt.
Sta. 729+50
Sta. 735+50 Rt. & Lt.
Field
Woods & Brush
Field
P.I. 734+06.2
734+05.8
Control of section of old highway between Station 722+68-49.5' Lt. and Station 736+08-35.6' Lt. relinquished to Town of Barnard Recorded in Book 32, Page 414, of Highway Records. date, 3rd. December, 1957.
6" Understream Clean Out
733+0
400' V.C.
754.71
718+50
500' V.C.
733.23
+4.37%
+4.329%
Elev. 739.20
Elev. 741.90
Elev. 752.00
725+00
500' V.C.
761.37
-0.833%
+1.05%
B.M. #66-A S.I.T. 10" Hem. 35' Lt. of Sta. 723+80 El. 753.69
B.M. #66-B S.I.R. Twin 6" Maples 35' Lt. of Sta. 727+60 El. 755.30
B.M. #66-C S.I.R. 24" Elm 81' Lt. of Sta. 732+50 El. 751.52
BARNARD-BETHEL
44
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

31

7000 no 10%

No Dwg



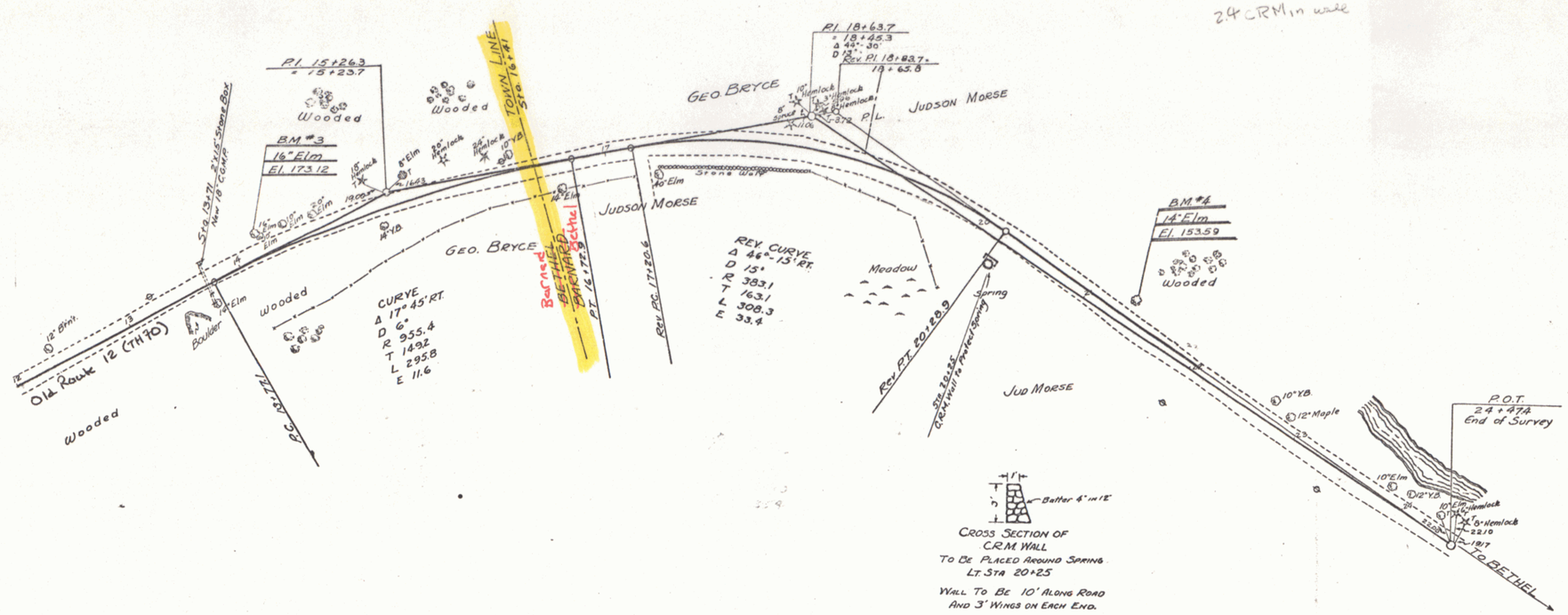


RIGHT-OF-WAY DIVISION
TOWN FILE
PERPETUAL
Town of 12
(To Be Returned To R.O.W. Division)

32

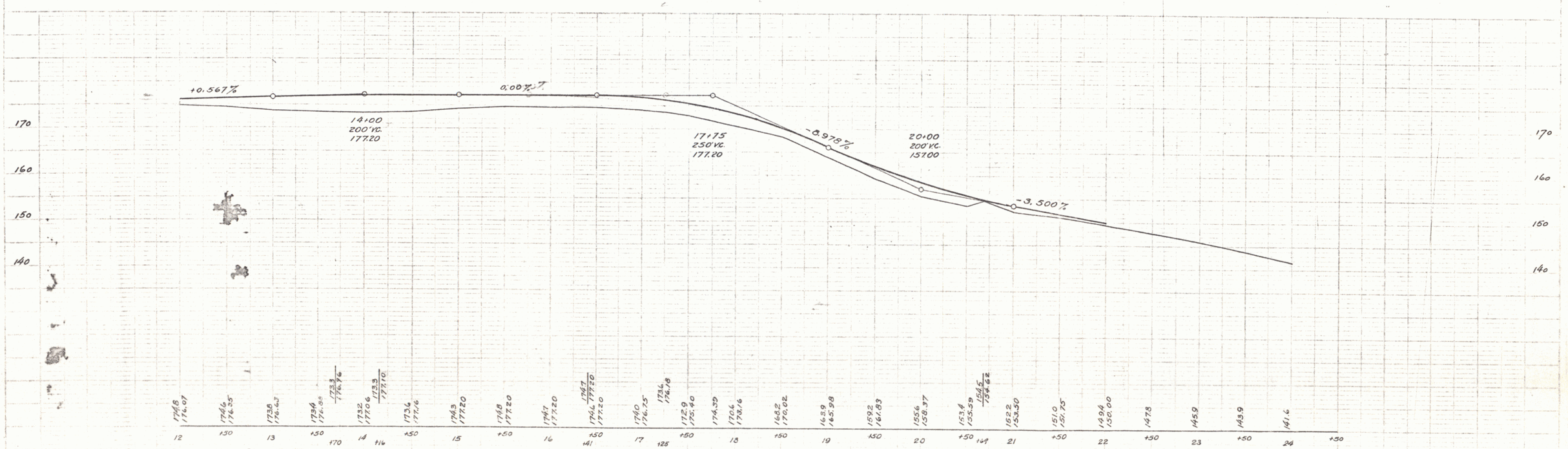
DIST. # 4 PLANS

24 CRM in wall



CROSS SECTION OF
C.R.M. WALL
TO BE PLACED AROUND SPRING
LT. STA 20+25

WALL TO BE 10' ALONG ROAD
AND 3' WINGS ON EACH END.



BM #3 SPIKE IN ROOT 16" ELM 15 FT. LT. STA. 14+ ELEV. 173.12
BM #4 SPIKE IN ROOT 14" ELM 22 FT. LT. STA. 21+ ELEV. 153.59

SERIES No.
SHEET 448 OF

BARNARD

33

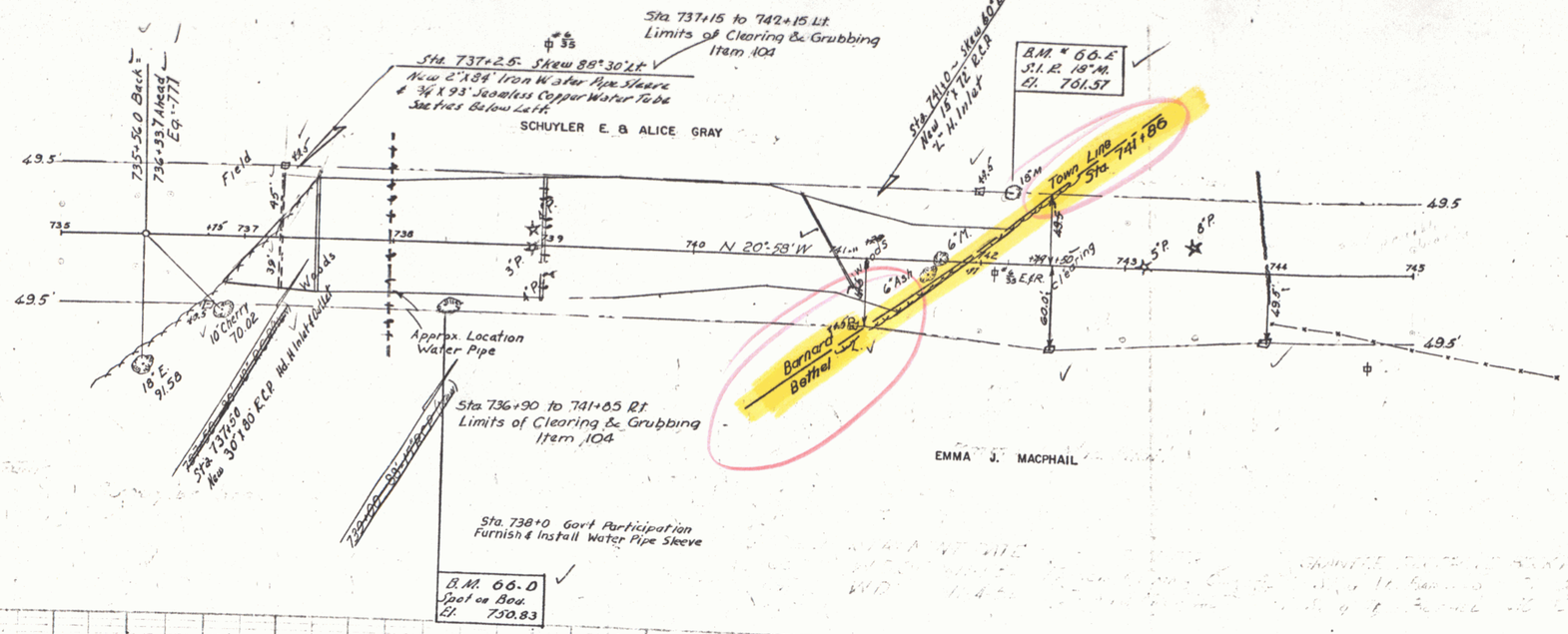
PROJ. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET NO.
	VT	F 102 (2)	POST WAR 45-	25

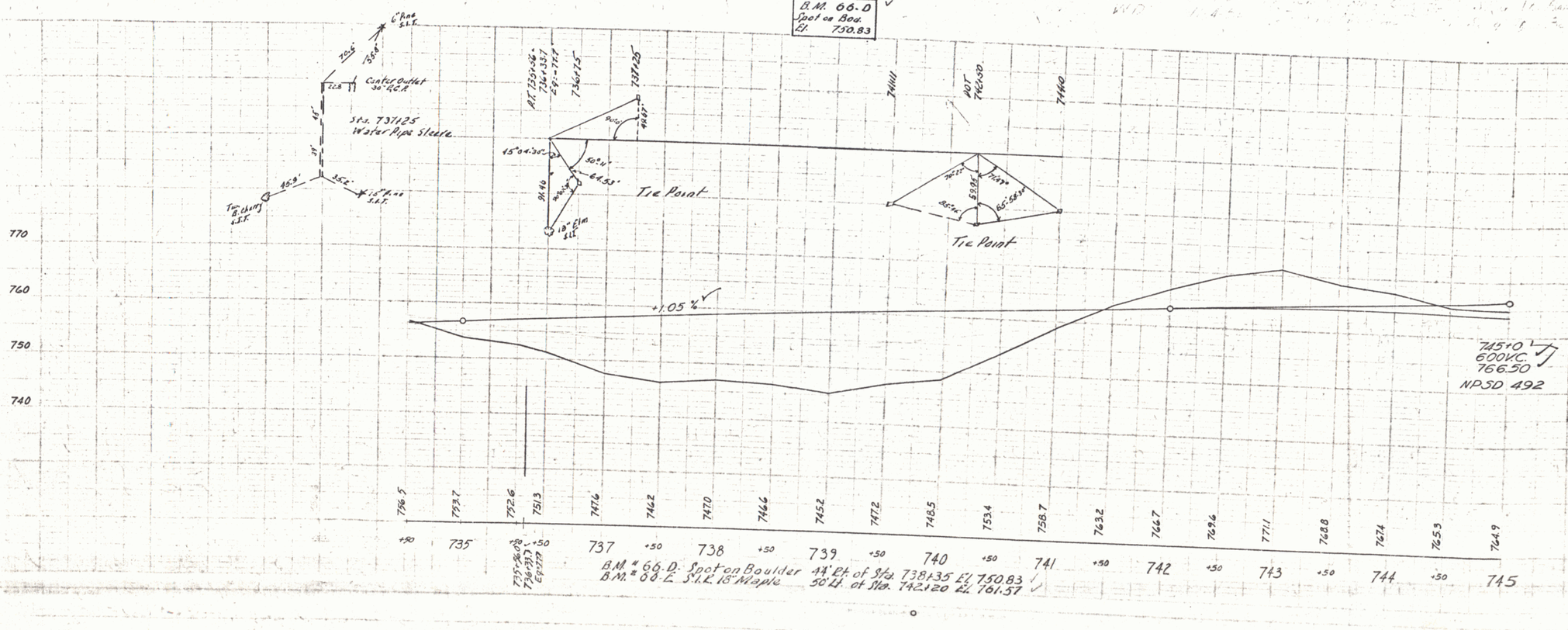
Three Cable Guard Rail / Steel Posts
Lt. Sta. 736+81 - 741+77
Rt. Sta. 736+81 - 740+17

Construct Drive
Sta. 744+50 Lt.

Spawding 9-53
A Parker 11-53
Z W Espar 11-53

#68
FRANCIS & EMMA CAMPBELL
STA. 737+98
WATER RIGHTS
W.D.O.E. 11/1/54
RECORDED: BARNARD-BK 31-PG 540-1/13/55

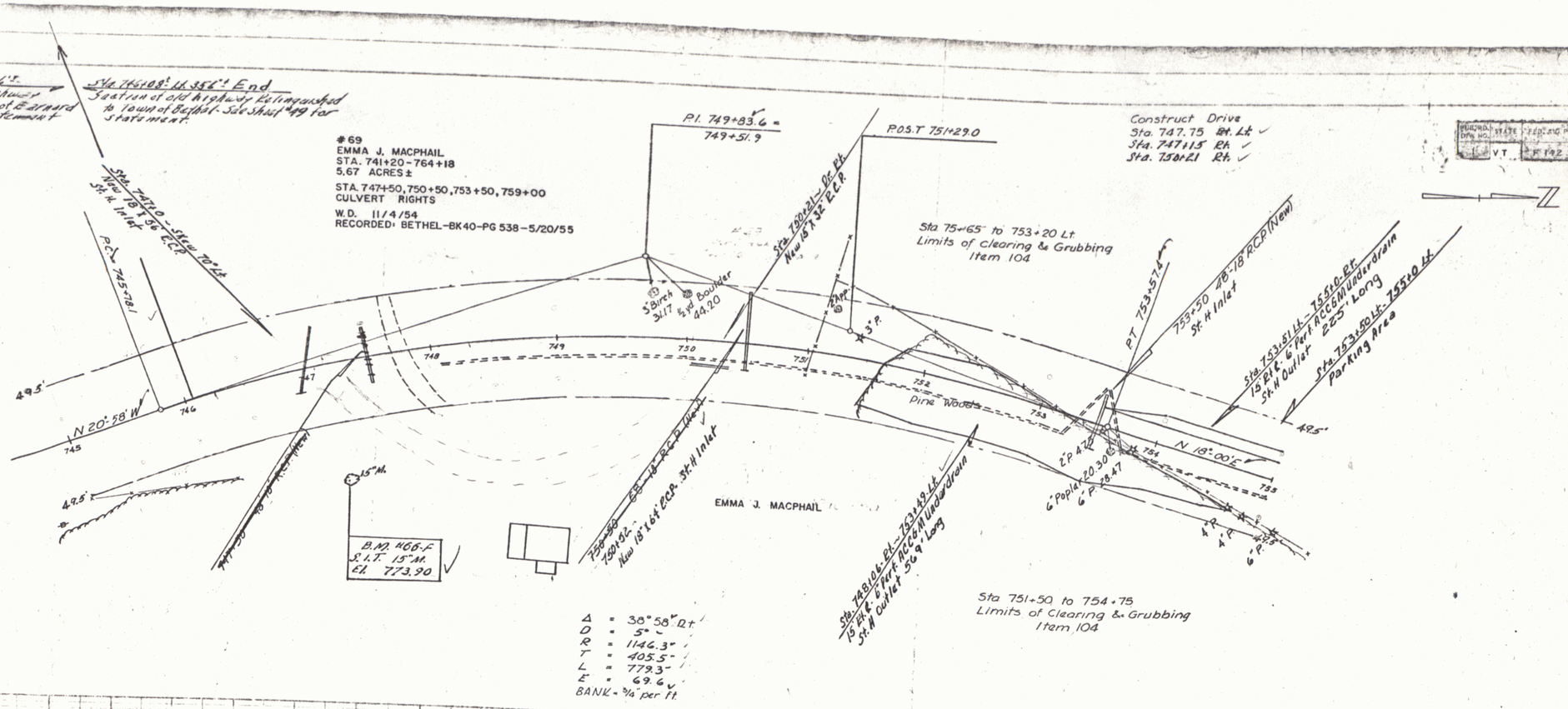


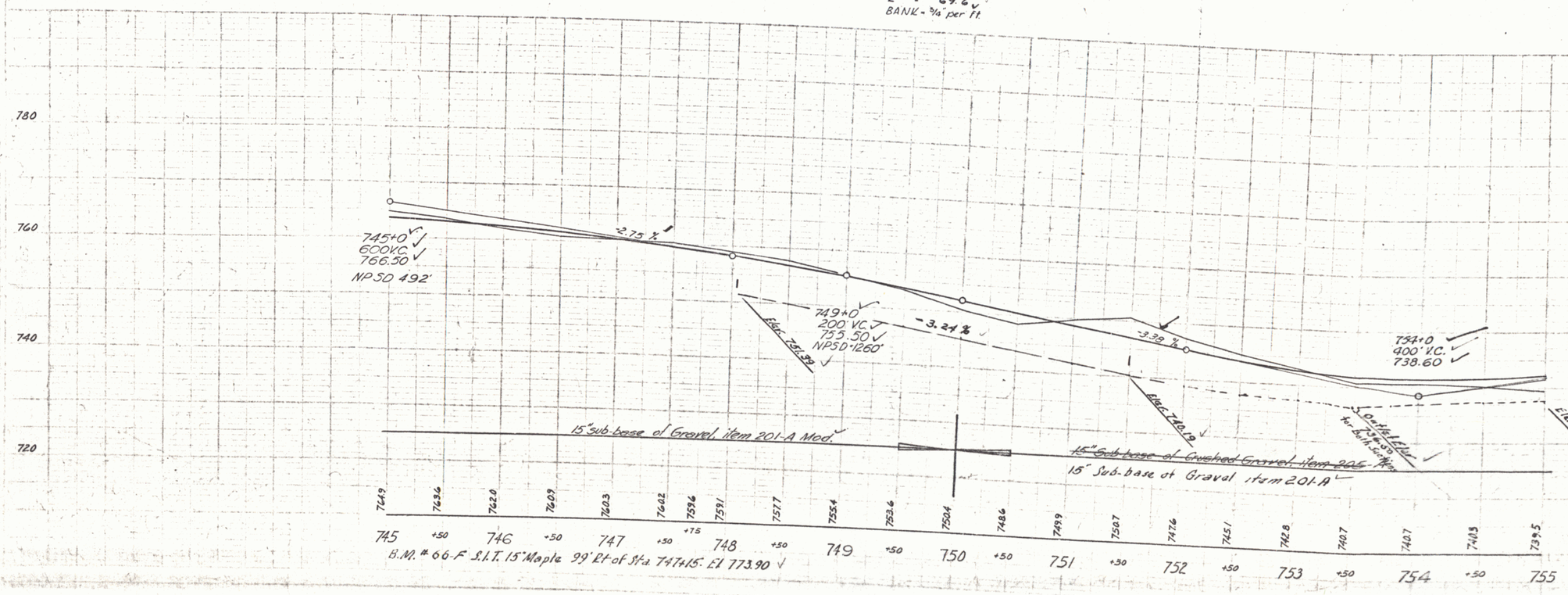


BARNARD-BETHEL
45

THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

34



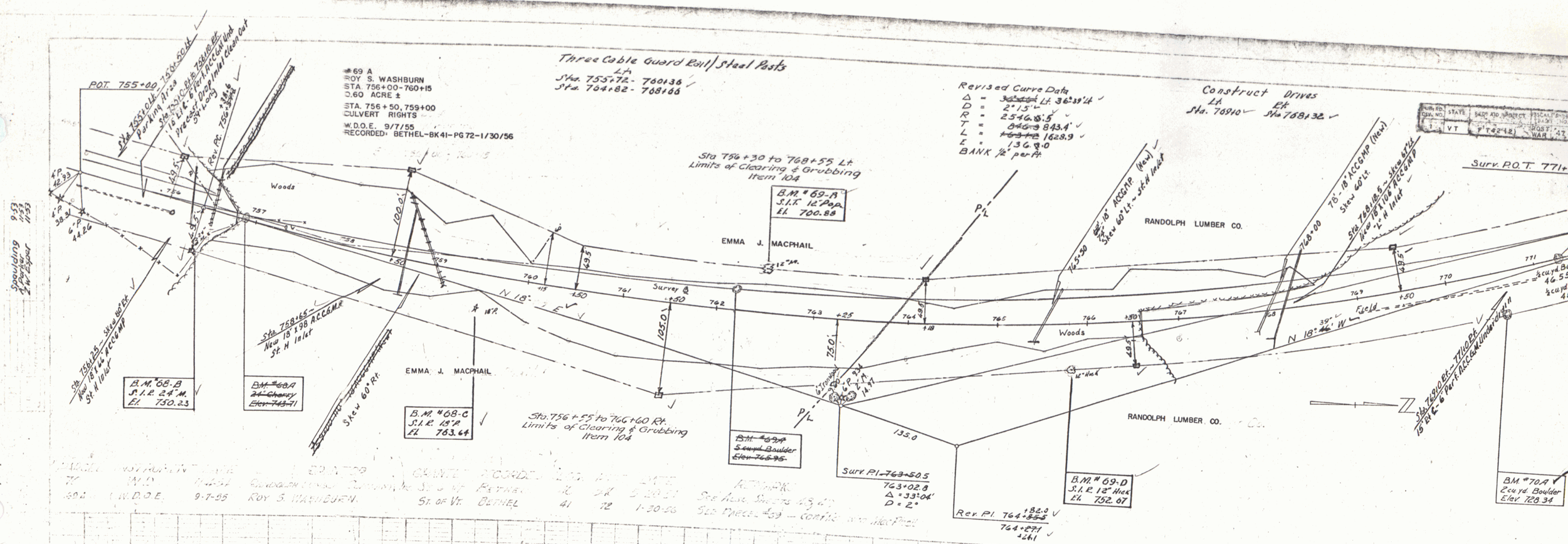


BARNARD-BE

46

THE CLARKESON ENGINEERING
CONSULTING ENGINEERS
BOSTON

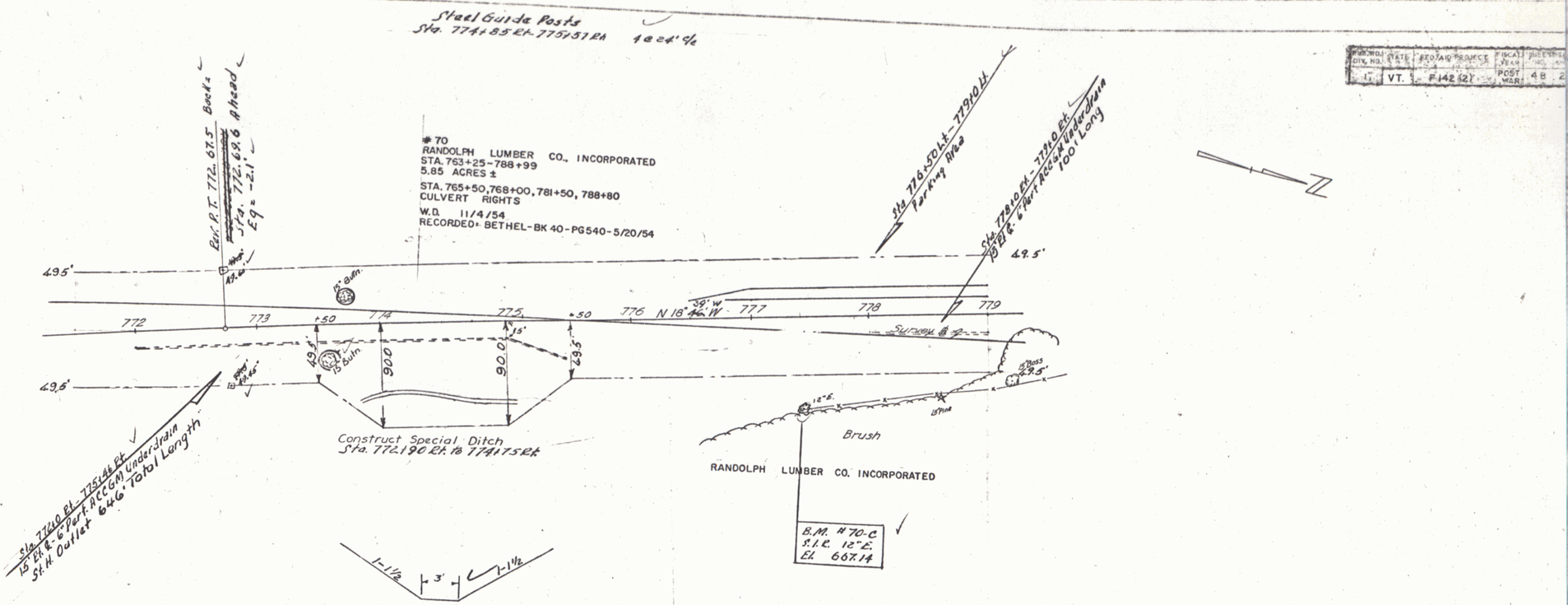
35


Three Cable Guard Rail/Steel Posts
Lt.
Sta. 755+72 - 760+36
Sta. 764+82 - 768+66
#69 A
ROY S. WASHBURN
STA. 756+00-760+15
0.60 ACRE ±
STA. 756+50, 759+00
CULVERT RIGHTS
W.D.O.E. 9/7/55
RECORDED: BETHEL-BK41-PG72-1/30/56
Revised Curve Data
Δ = 36°39'14"
D = 2°15' Lt.
R = 2546.5'
T = 843.4'
L = 1628.9'
E = 136.8'
BANK 1/2" per Ft.
Construct Drives
Lt. Sta. 768+10
Rt. Sta. 768+32
Sta 756+30 to 768+55 Lt.
Limits of Clearing & Grubbing
Item 104
Sta. 756+55 to 766+60 Rt.
Limits of Clearing & Grubbing
Item 104
B.M. #69-A
S.I.T. 12" Pop.
El. 700.88
EMMA J. MACPHAIL
RANDOLPH LUMBER CO.
Woods
Field
Survey ℄
N 18° E
N 18° 39' W
Surv. P.O.T. 771+
POT. 755+00
Sta. 755+01 Lt. 750 Soft
Parking Area
Sta. 755+01 Rt. 758 Rt.
16' Lt. & 6' Rt. Perf. ACC GMP Inst.
Precast Drop Inlet Clean Out
Sta. 756+35
Rev. PC. 756+35
Sta. 758+25 - Skew 86° Rt.
New 18" x 48' ACC GMP
St. H Inlet
Sta. 758+65 -
New 18" x 98' ACC GMP
St. H Inlet
Skew 60° Rt.
Sta. 764+50 - 18" ACC GMP (New)
Skew 60° Lt. - St. H Inlet
Sta. 768+00
Sta. 768+15 - Skew 87° Lt.
New 18" x 106' ACC GMP
"L" H Inlet
Sta. 769+80 Rt. - 771+0 Rt.
15' Rt. & 6' Perf. ACC GMP Underdrain
B.M. #68-B
S.I.R. 24" M.
El. 750.23
B.M. #68-A
~~24" Cherry~~
~~Elev. 743.71~~
B.M. #68-C
S.I.R. 19" P.
El. 763.64
~~B.M. #69-A~~
~~5 cu.yd. Boulder~~
~~Elev. 765.95~~
Surv. P.I. ~~763+50.5~~
763+02.8
Δ = 33°04'
D = 2°
Rev. P.I. 764+82.0
764+271
B.M. #69-D
S.I.R. 12" Hick
El. 752.67
B.M. #70-A
2 cu.yd. Boulder
Elev. 728.34
100.0'
105.0'
75.0'
135.0
4.95
6" Transport
Sta. 756+10 - 15' Rt. Ct.
6" Und. Clear Out
+ 3.337%
+ 3.191%
~~763.10~~ 762.90
600' V.C.
~~767.30~~ 768.30
S.D. 300'
- 6.447%
Elev. 732.69
Elev. 739.37
Elev. 723.67
Elev. 714.78
Sounding Log 9-53 6-Guest 11-53 2-W. Espar 11-53
Sounding Log 7-53 6-Guest 7-54 2-W. Espar 7-54
BM #68-A 24" Cherry Sta. 756+85 El. 743.71
BM #69-A 5 cu.yd. Boulder 20' Lt. Sta. 762+15 El. 765.95
BM #70-A 2 cu. Boulder 68' Rt. Sta. 770+47 El. 728.34
BM #68-B S.I.R. 24" Maple 40' Rt. of Sta. 756+39 El. 750.23
BM #68-C S.I.R. 18" Pine 54' Rt. of Sta. 759+50 El. 763.04
BM #69-B S.I.T. 12" Pop. 50' Lt. of Sta. 762+50 El. 760.88
BM #69-D S.I.R. 12" Hick 50' Rt. 765+80 El. 752.67
BARNARD-BETHEL
47
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON

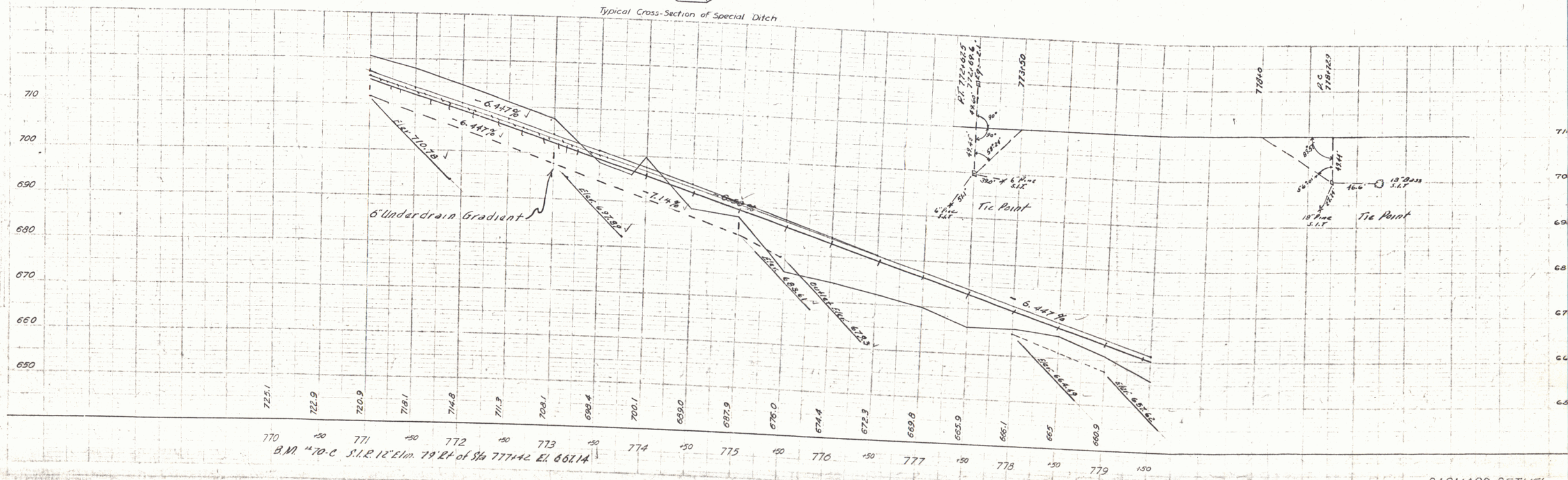
FED. RD. DIV. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET NO.
1	VT.	F 142 (2)	POST WAR	48

C. & R. TREE
ITEM 110

Spaulding 9-53
A Parker 11-53
E.W. Espar 11-53



Spaulding 9-53
A Hoag 1-54
G Guest 1-54
E.W. Espar 5-54

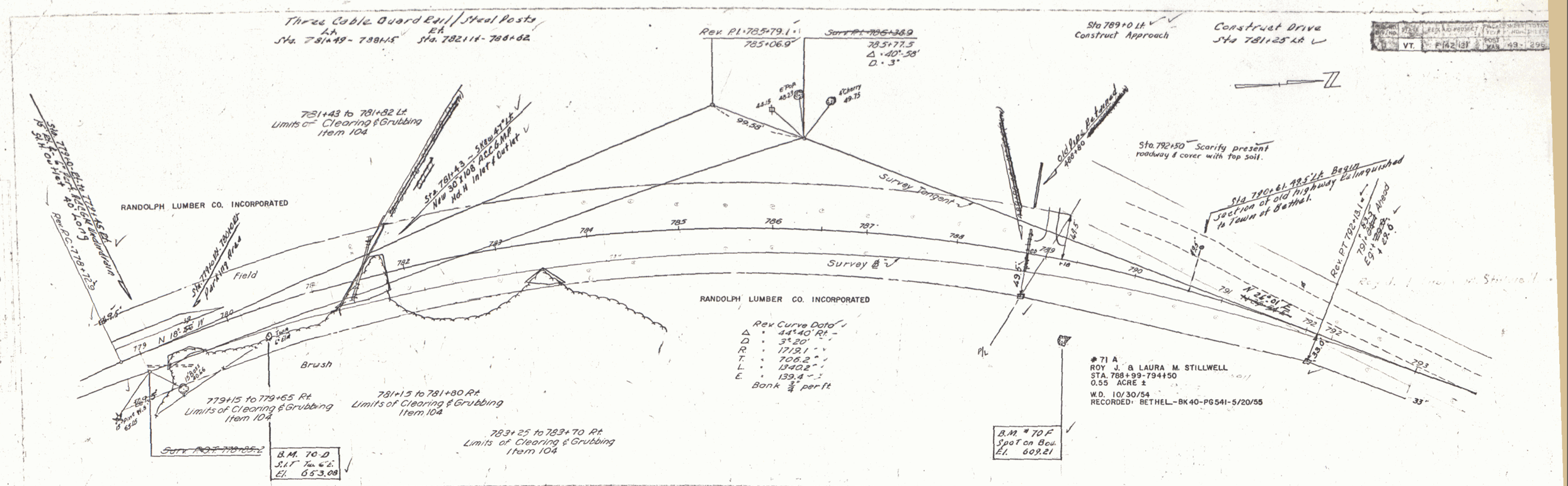


BARNARD-BETHEL
48

THE CLARKESON ENGINEERING CO., IN
CONSULTING ENGINEERS
BOSTON MASSACHUSE

37

STATE	FED. AID PROJECT	PROJ. NO.	SHEET NO.
VT.	F 142 (3)	POST WAR	49 - 296



C. & R. TREE
ITEM 110

Three Cable Guard Rail / Steel Posts
Lt. Sta. 795+18 - 796+14
Sta. 796+92 - 797+08
Rt. Sta. 795+90 - 796+38
Sta. 797+16 - 797+48
Sta 801+50 - 802+50

Plank Guard Rail
Lt.
Sta. 797+08

~~Construct Drives~~
~~Sta 794+20 Lt~~
~~Sta 794+70 Rt~~

Construct Drives
Lt.
Sta 794+15
Sta 797+12
Rt.
Sta 794+75
Sta 795+80
Sta. 797+65

Non-Gov't. Participation
2" Bituminous Concrete Paving
for Bridge Deck - Sta 796+24 to 797+08
Three Cable Guard Rail / Steel Posts,
Non-Govt Participation
Lt. Sta 796+14 - 796+92
Rt. Sta 796+38 - 797+16

Sta 797+35 to 798+45 Lt.
Limits of Clearing & Grubbing
Item 164

Conc. I Beam Bridge
Cable Rail
Clear Height 10'
Clear Span 58.5'

#71 A
ROY J. & LAURA M. STILLWELL
STA. 788+99 — 794+50
0.55 ACRE ±
W.D. 10/30/54
RECORDED: BETHEL - BK.40 - PG.541 - 5/20/55
NOTE: SEE SHEET 49

#72 A
FLORENCE E. & CLARENCE A. SHARPE
STA. 797+25 — 798+50
SLOPE RIGHTS

Sta. 798+01 Lt. - 801+50 Lt.
Parking Area

Sta 794+49 - Skew 76° Rt.
4" x 40' Bituminous Fiber Water Pipe Sleeve
Furnished by Property Owner
ROY J. & LAURA M. STILLWELL

Sta 794+49 Non Gov't Participation
Install sleeve for water pipe across roadway. Item 103. (Non Gov't)
Sleeve to be furnish by Property Owner.

STA 794.49 = STA 6+91

#71 B
ROY J. & LAURA M. STILLWELL
STA. 800+15 — 800+79
0.34 ACRE ±
W.D. 10/30/54
RECORDED: BETHEL - BK.40 - PG.541 - 5/20/55

#73 A
GLENN M. & ANNA L. BULLARD
STA. 800+66 — 809+50
1.45 ACRES ±
W.D.O.E. 11/1/54
RECORDED: BETHEL - BK.40 - PG.543 - 5/20/55

B.M. #71
Conc. Post
Elev. 605.26

PARCEL NO.	INSTRUMENT	DATE	GRANTOR	GRANTEE	RECORDED	BOOK	PAGE	DATE	REMARKS
71 A	W.D.	10-30-54	Roy J. & Laura M. Stillwell	State of Vt.	Bethel	40	541	5-20-55	See Also Sheet 49
72 A	W.D.	11-1-54	Florence E. & Clarence A. Sharpe	State of Vt.	Bethel	40	542	5-20-55	See Also Sheet 51
73 A	W.D.O.E.	11-1-54	Glenn M. & Anna L. Bullard	State of Vt.	Bethel	40	543	5-20-55	See Also Sheet 51
[illegible]	[illegible]	[illegible]	[illegible]	State of Vt.	Bethel	41	[illegible]	[illegible]	See Sheet 51
[illegible]	Agreement	[illegible]	Roy J. & Mary M. Agnew	re-spring & water supply					

B.M. #71 Spot on Bridge Rail 13' Rt of 796+38 El. 605.26

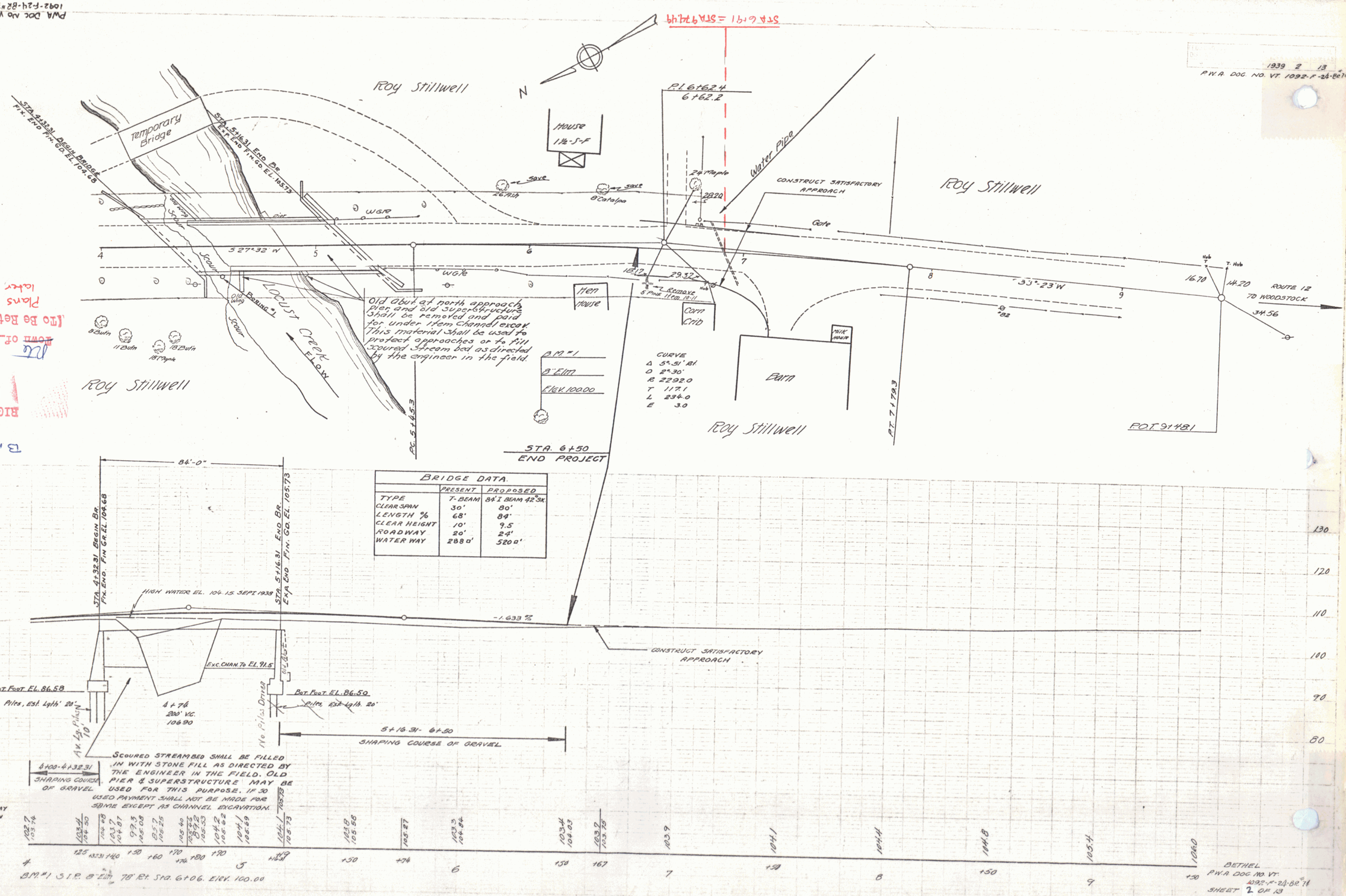
BARNARD - BETHEL

THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

50

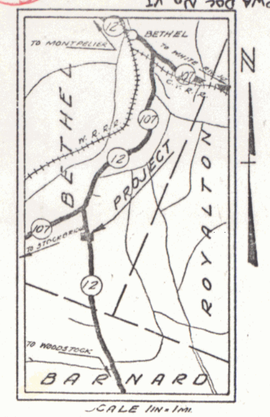
39

PWA Doc No VT 1092-F24-B2#74 SHEET 50A
40
STA 6+71 = STA 974.19
1939 2 13
P.W.A. DOC. NO. VT. 1092-F-24-B2#74
BRIGHT-OF-WAY DIVISION
DOWN FILE
PERPETUAL
[TO BE RETURNED TO R.O.W. DIVISION]
Plans superseded by later Bridge
BRIDGE DATA
BRIDGE DATA
BRIDGE DATA
BRIDGE DATA



PWA Doc No. VT 1092-F-24-BR #14 SHEET 5OB

1939 1 13.
P.W.A. DOC. NO. VT 1092-F-24-BR

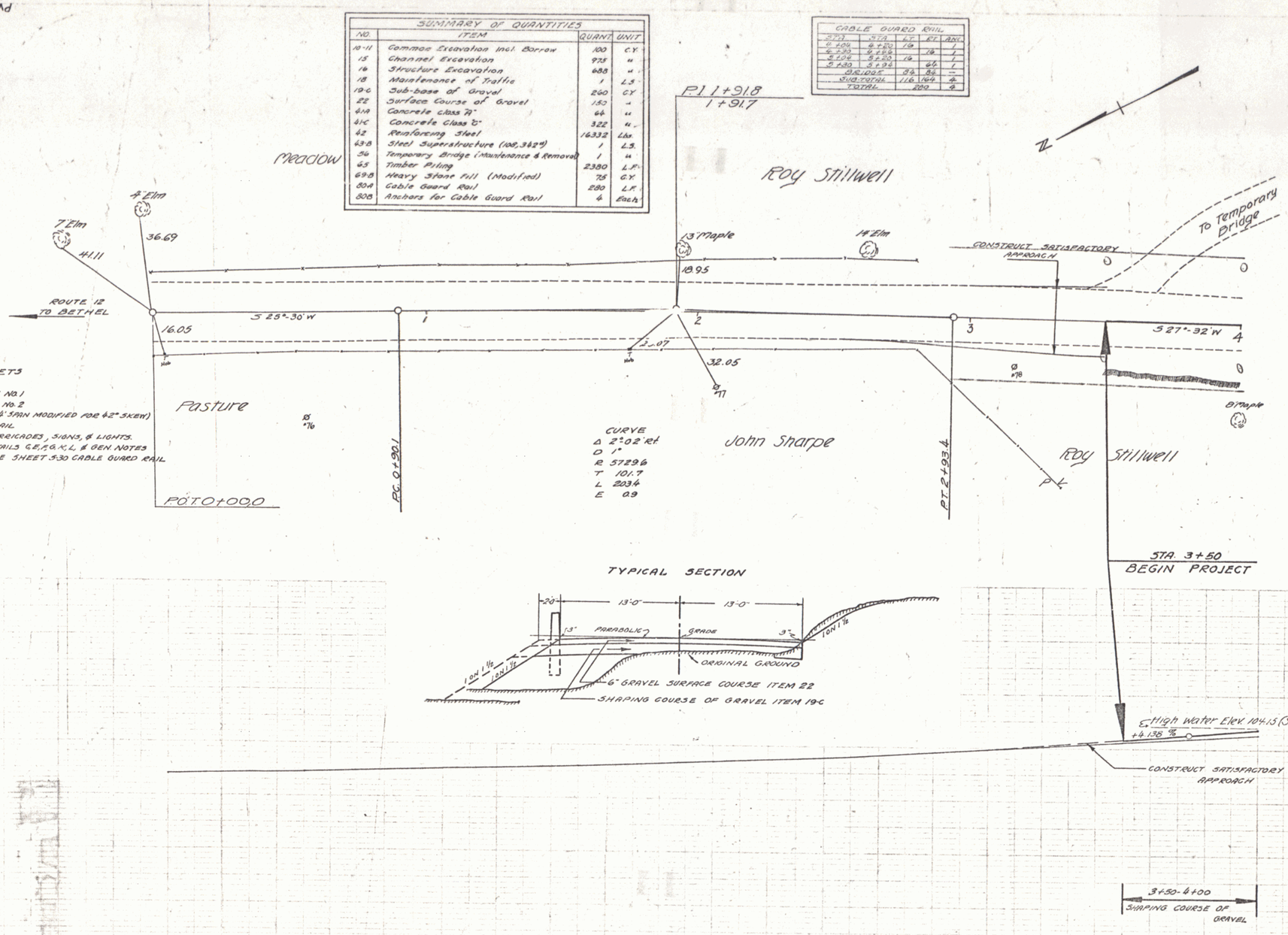


SUMMARY OF QUANTITIES			
NO.	ITEM	QUANT.	UNIT
10-11	Common Excavation Incl. Borrow	100	C.Y.
15	Channel Excavation	975	"
16	Structure Excavation	688	"
18	Maintenance of Traffic	1	L.S.
19-C	Sub-base of Gravel	260	C.Y.
22	Surface Course of Gravel	150	"
41A	Concrete Class "A"	66	"
41C	Concrete Class "C"	322	"
42	Reinforcing Steel	16332	Lbs.
43-B	Steel Superstructure (108.3429)	1	L.S.
56	Temporary Bridge (Maintenance & Removal)	1	"
65	Timber Piling	2380	L.F.
69-B	Heavy Stone Fill (Modified)	75	C.Y.
80A	Cable Guard Rail	280	L.F.
80B	Anchors for Cable Guard Rail	4	Each

CABLE GUARD RAIL				
STA.	STA.	LT.	RT.	ANC.
0+00	4+20	19		1
4+20	5+20		19	1
5+20	5+30	19		1
5+30	5+98		64	1
BRIDGE		36	36	—
SUB-TOTAL		116	164	4
TOTAL		280		4

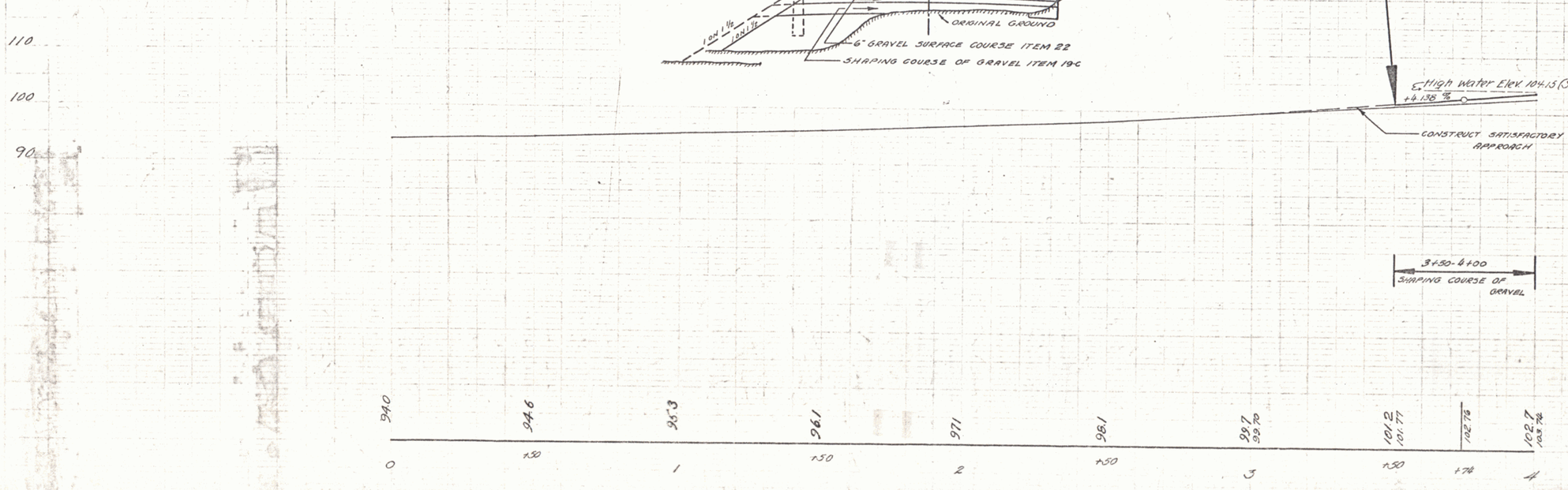
INDEX OF SHEETS

SHEET NO.	1-2	PLAN & PROFILE
" "	3	DETAILS ABUTMENT NO. 1
" "	4	" " NO. 2
" "	5	SERIES S.1.B.24 (84' SPAN MODIFIED FOR 42° SKEW)
" "	6	" S.B. 5C RAIL
" "	7	" S.B. 11 BARRICADES, SIGNS, & LIGHTS.
" "	8	" S.B. 20 DETAILS C,E,F,G,K,L, & GEN. NOTES
" "	9	STANDARD STRUCTURE SHEET S-30 CABLE GUARD RAIL
" "	10-13	CROSS SECTIONS



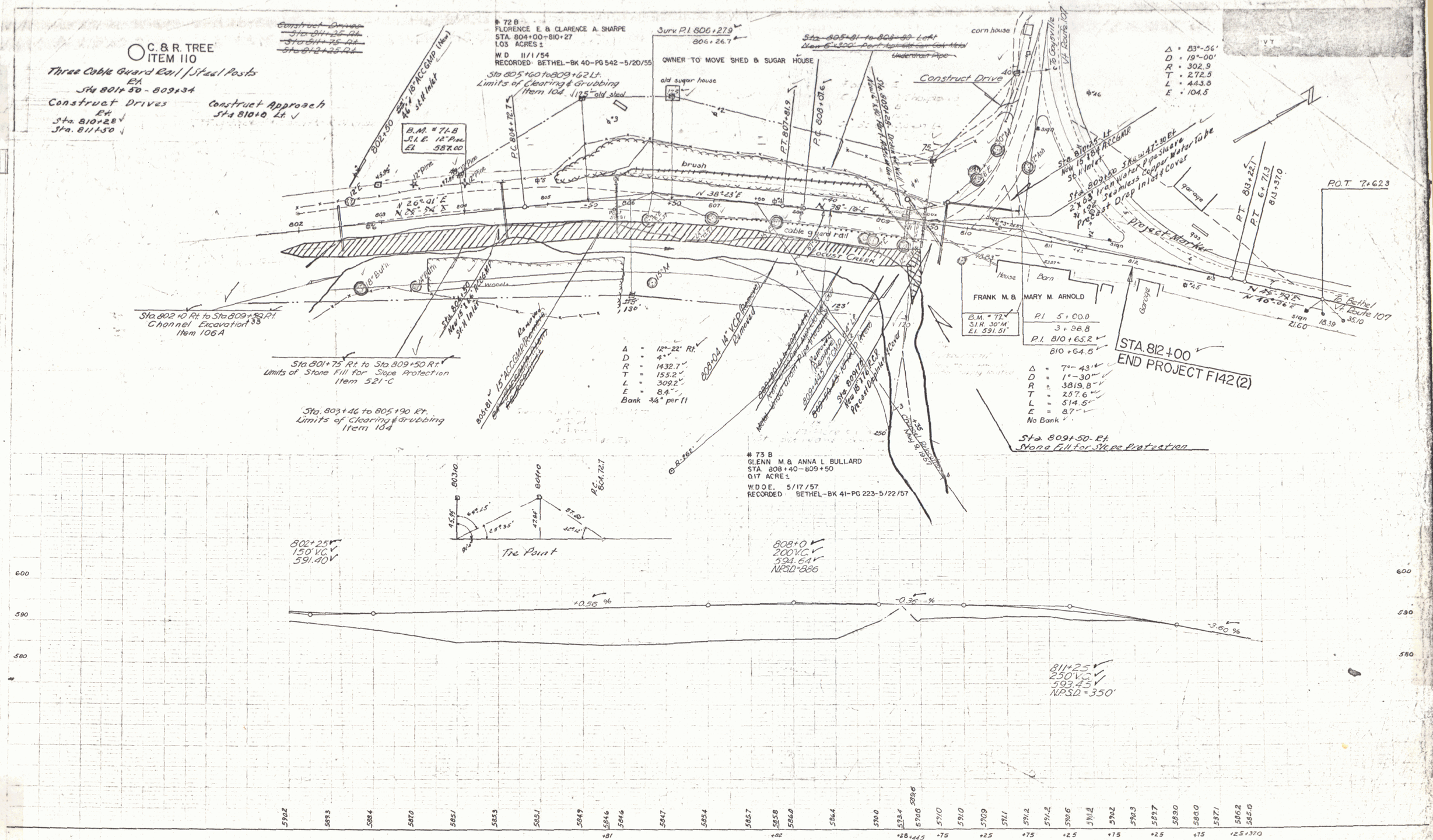
APPROVED
DISTRICT HIGHWAY COMMISSIONER
CORRECT
A.D. Dubois
BRIDGE ENGINEER
APPROVED
H.E. Sa[illegible]
COMMISSIONER OF HIGHWAYS

TYPICAL SECTION



BETHEL
P.W.A. DOC. NO. VT 1092-F-24-BR 14
SHEET 1 OF 13

DIST. # 4 PLANS


C. & R. TREE
ITEM 110
Three Cable Guard Rail / Steel Posts
Rt.
Sta 801+50 - 809+34
Construct Drives
Rt.
Sta. 810+28
Sta. 811+50
Construct Approach
Sta 810+0 Lt.
Construct Drives
Sta 811+25 Rt.
Sta 811+75 Rt.
Sta 812+25 Rt.
#72 B
FLORENCE E. & CLARENCE A. SHARPE
STA. 804+00-810+27
1.03 ACRES ±
W.D. 11/1/54
RECORDED BETHEL-BK 40-PG 542-5/20/55
Surv. P.I. 806+27.9
806+26.7
OWNER TO MOVE SHED & SUGAR HOUSE
old sugar house
Sta 805+60 to 809+62 Lt.
Limits of Clearing & Grubbing
Item 104
802+50
B.M. #71-B
S.I.R. 12" Pine
El. 587.00
P.C. 804+72.7
P.T. 807+81.9
P.C. 808+07.6
N 38°-23' E
N 38°-18' E
N 26°-31' E
brush
cable guard rail
LOCUST CREEK
woods
Sta. 802+0 Rt. to Sta 809+50 Rt.
Channel Excavation
Item 106A
Sta 801+75 Rt. to Sta 809+50 Rt.
Limits of Stone Fill for Slope Protection
Item 521-C
Sta. 803+46 to 805+90 Rt.
Limits of Clearing & Grubbing
Item 104
Δ = 12°-22' Rt.
D = 4°
R = 1432.7
T = 155.2
L = 309.2
E = 8.4
Bank 3/4" per ft
808+04 14" VCP Removed
Sta 808+79 New 18" RCP Precast Drop Inlet & Cover
#73 B
GLENN M. & ANNA L. BULLARD
STA. 808+40-809+50
0.17 ACRE ±
W.D.O.E. 5/17/57
RECORDED BETHEL-BK 41-PG 223-5/22/57
corn house
To Gaylville
Vt. Route 107
Construct Drive
Sta 810+25 Lt.
New 15" RCCGMP
St. Inlet
Sta 809+50 Skew 47°-30' Rt.
2 x 6' Iron Water Pipe Sleeve
3/4" x 20' Seamless Copper Water Tube
Precast Drop Inlet & Cover
garage
House
Barn
FRANK M. & MARY M. ARNOLD
B.M. #72
S.I.R. 30" M.
El. 591.51
P.I. 5+00.0
3+98.8
P.I. 810+65.2
810+64.5
Δ = 83°-56'
D = 19°-00'
R = 302.9
T = 272.5
L = 443.8
E = 104.5
P.T. 813+22.1
P.T. 6+71.3
813+37.0
P.O.T. 7+62.3
To Bethel
Vt. Route 107
STA. 812+00
END PROJECT F142(2)
Δ = 7°-43'
D = 1°-30'
R = 3819.8
T = 257.6
L = 514.5
E = 8.7
No Bank
Sta. 809+50 Rt.
Stone Fill for Slope Protection
Tie Point
802+25
150' V.C.
591.40
808+0
200' V.C.
594.64
N.P.S.D. 886
+0.56 %
-0.36 %
-3.50 %
811+25
250' V.C.
593.45
N.P.S.D. = 350'
B.M. #72 S.I.R. 30" Maple 43' Rt. of 809+97 El. 591.51
B.M. #71-B S.I.R. 12" Pine 35' Lt. of 804+04 El. 587.00
BARNARD-BETHEL
51
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS
42