EXHIBIT B-1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 30 & T.R. 52	99-06001 -00-FP	MOULTRIE	17	1
MARROWBONE ROAD DISTRICT				

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED GRADE CROSSING PROTECTION FUND

MARROWBONE ROAD DISTRICT
SECTION 99–06001–00–FP
T.R. ROUTES 30 & 52
MOULTRIE COUNTY

INDEX OF SHEETS

SHEET NO.	TITLE
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES, GENERAL NOTES & ENTRANCE DETAILS
3.	TYPICAL CROSS SECTIONS
4 – 7.	PLAN AND PROFILE
8. – 17.	STATION CROSS SECTIONS

SEE PROPOSAL BOOKLET FOR STANDARDS:

420001–02

420501–01

542301

701001

701006–01

701011

701201–01

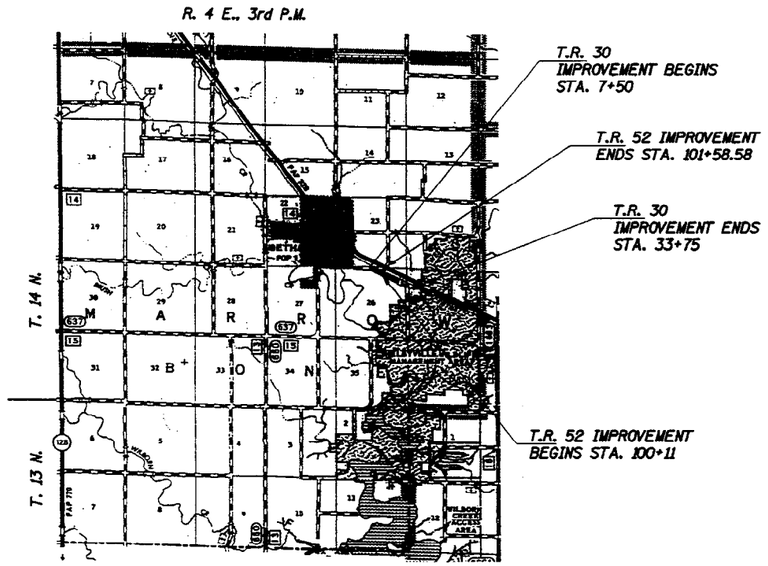
701206

701301–01

702001

BLR 21–5

BLR 24–1



LAYOUT

Net Length of Section = 2777.00 Feet = 0.526 Miles

0 1 2 3 4 5

SCALE IN MILES

LOCAL ROAD
ADT 0-250
CURRENT ADT<150

SCALES

PLAN	0'	50'	100'
PROFILE HORIZ.	0'	50'	100'
PROFILE VERT.	0'	5'	10'
CROSS SECTIONS	0'	5'	10'

TOLL FREE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (J.U.L.I.E.) TELEPHONE NUMBER 1-800-892-0123

APPROVED _____ 19____

ROAD DISTRICT COMMISSIONER

APPROVED _____ 19____

MOULTRIE COUNTY ENGINEER

APPROVED _____ 19____

DISTRICT ENGINEER

MICHAEL D. CUMMINS 43244 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

ILLINOIS PROFESSIONAL NO. 43244
(Expires 11/30/01)

CUMMINS ENGINEERING CORPORATION SPRINGFIELD, ILLINOIS

9917cvr.dgn Mar 13, 2000 08:34:50

EXHIBIT B-1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 30 & T.R. 52	99-06001 -00-FP	MOULTRIE	17	2
MARROWBONE ROAD DISTRICT				

SUMMARY OF QUANTITIES

ITEM	UNIT	QUANTITY
TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	15
TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	24
TREE REMOVAL, ACRES	ACRES	0.9
EARTH EXCAVATION	CU. YD.	2910
EMBANKMENT	CU. YD.	5930
TRENCH BACKFILL	CU. YD.	20
SEEDING, CLASS 2 (SPECIAL)	ACRE	4.10
STONE RIPRAP DITCH	TON	130
AGGREGATE BASE COURSE, TYPE B	TON	2250
AGGREGATE SURFACE COURSE, TYPE B	TON	20
SUB-BASE GRANULAR MATERIAL, TYPE A, 4" (SPECIAL)	SQ. YD.	250
BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2300
BITUMINOUS MATERIALS (COVER AND SEAL COATS)	GALLON	4600
COVER COAT AGGREGATE	TON	82
SEAL COAT AGGREGATE	TON	82
BITUMINOUS SHOULDERS 8"	SQ. YD.	83
PORTLAND CEMENT CONCRETE PAVEMENT 8"	SQ. YD.	211
PROTECTIVE COAT	SQ. YD.	211
PAVEMENT REMOVAL	SQ. YD.	325
PIPE CULVERTS, CLASS D, TYPE 1, 18" C.S.C.P.	FOOT	28
PIPE CULVERTS (TEMPORARY) 18"	FOOT	60
PIPE CULVERTS, CLASS A, TYPE 1, 24"	FOOT	66
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2
BITUMINOUS AGGREGATE MIXTURE (SPECIAL)	TON	630
BITUMINOUS CONNECTOR 8"	SQ. YD.	10
AGGREGATE FOR TEMPORARY ACCESS	TON	100
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1

GENERAL NOTES

1. ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES AND PIPES ENCOUNTERED ARE TO BE INCLUDED IN THE UNIT PRICE BID FOR EARTH EXCAVATION EXCEPT AS NOTED ON THE PLANS.

2. THE LOCATIONS OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS, ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

3. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

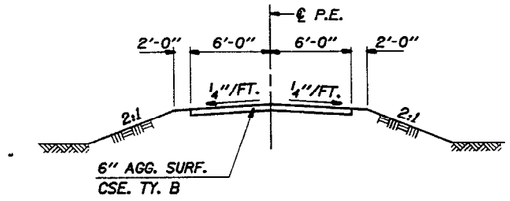
4. THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AND EASEMENTS AS DIRECTED BY THE ENGINEER.

SEEDING, CLASS 2 (SPECIAL) = 4.10 ACRES

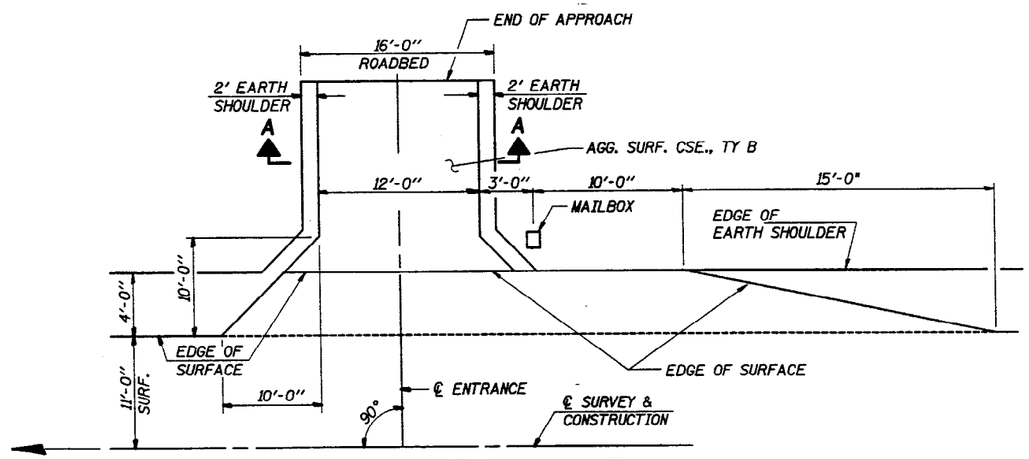
APPLICATION RATES USED IN QUANTITY CALCULATIONS

Granular Materials ..... 2.05 Tons/Cu. Yd.
Bituminous Materials (Prime Coat) ..... 0.35 Gallon/Sq. Yd.
Bituminous Materials (Cover & Seal Coats) ..... 0.35 Gallon/Sq.Yd./Application
Cover & Seal Coat Aggregate ..... 25 #/Sq.Yd./Application
Bituminous Aggregate Mixture (Special) ..... 95 #/Sq.Yd./In.

NOTE: THE ABOVE NOTED APPLICATION RATES FOR BITUMINOUS MATERIALS AND FOR COVER & SEAL COAT AGGREGATE ARE FOR QUANTITY CALCULATIONS ONLY THE APPLICATION RATE TO BE APPLIED WILL BE DETERMINED BY THE ENGINEER AT THE TIME OF PLACEMENT.



SECTION A-A



ENTRANCE DETAIL W/MAILBOX TURNOUT
RT. STA. 16+60

TREE REMOVAL (6 TO 15 UNITS DIAMETER)

51 FT. LT. STA. 30+94 = 15 UNIT DIA.

TREE REMOVAL (OVER 15 UNITS DIAMETER)

50 FT. LT. OF TANGENT STA. 31+80 = 24 UNIT DIA.

SUMMARY OF QUANTITIES, GENERAL NOTES & ENTRANCE DETAILS
T.R. ROUTES 30 & 52
SECTION 99-06001-00-FP
MARROWBONE ROAD DISTRICT
MOULTRIE COUNTY

CUMMINS ENGINEERING CORPORATION

JOB #: 9917
FILE: 9917ENT
DATE: 12/30/99

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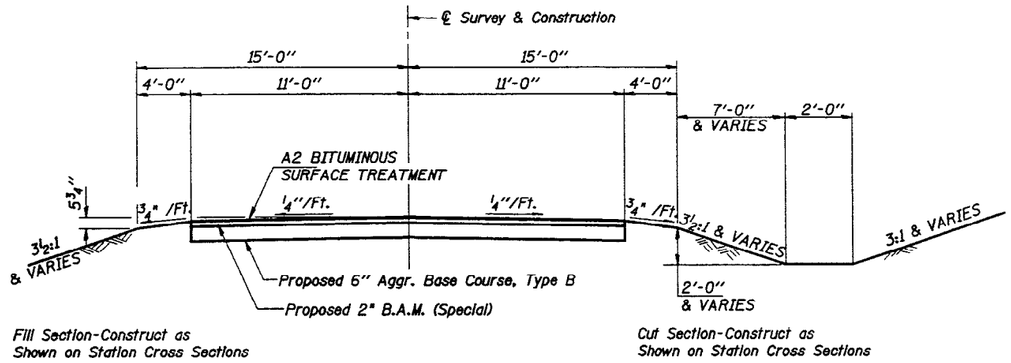
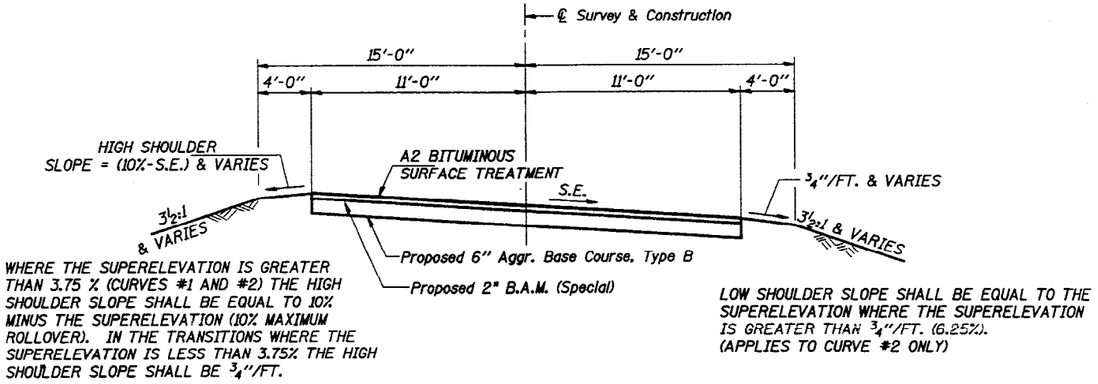
EXHIBIT B-1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 30 & T.R. 52	99-06001 -00-FP	MOULTRIE	17	3
MARROWBONE ROAD DISTRICT				



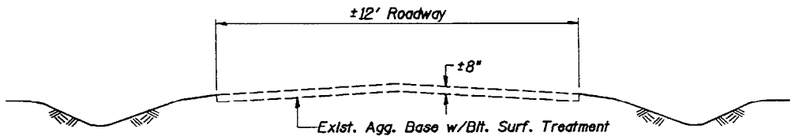
TYPICAL PROPOSED ROADWAY CROSS SECTION

T.R. 30 STA. 8+00 TO STA. 33+25
T.R. 52 STA. 100+11 TO STA. 100+80.75
(EXCEPT AS NOTED AT HORIZONTAL CURVES)
TRANSITION T.R. 30 FROM EXISTING TO PROPOSED ROADWAY FROM STA. 7+50 TO STA. 8+00 AND FROM STA. 33+25 TO STA. 33+75.
TRANSITION T.R. 52 TO MATCH NEW CROSSING AS NOTED ON PLAN

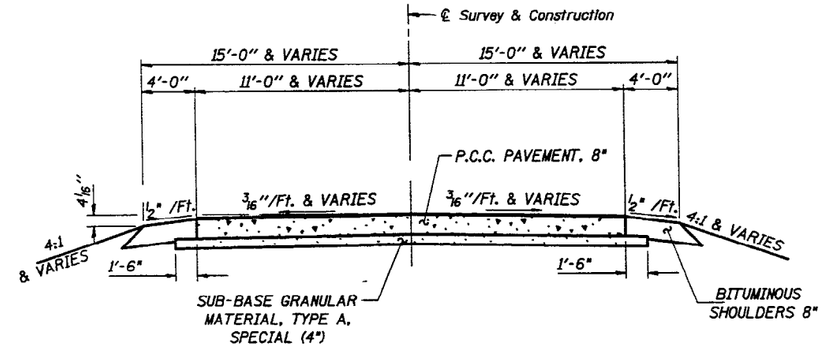


TYPICAL CROSS SECTION AT HORIZONTAL CURVES

CURVE #1 P.I. STA. 10+00 S.E. = 0.062 FT./FT.
CURVE #2 P.I. STA. 31+28 S.E. = 0.080 FT./FT.
SEE PLAN FOR TRANSITONS



TYPICAL EXISTING ROADWAY CROSS SECTION



TYPICAL PROPOSED ROADWAY CROSS SECTION

T.R. 52 STA. 100+93.25 TO STA. 101+63
TRANSITION FROM PROPOSED ROADWAY TO MATCH NEW R.R. CROSSING AND EXISTING EDGE OF PAVEMENT AS NOTED ON PLAN

TYPICAL CROSS SECTIONS
T.R. ROUTES 30 & 52
SECTION 99-06001-00-FP
MARROWBONE ROAD DISTRICT
MOULTRIE COUNTY

CUMMINS ENGINEERING CORPORATION

JOB #: 9917
FILE: 9917TYP
DATE: 2/24/00

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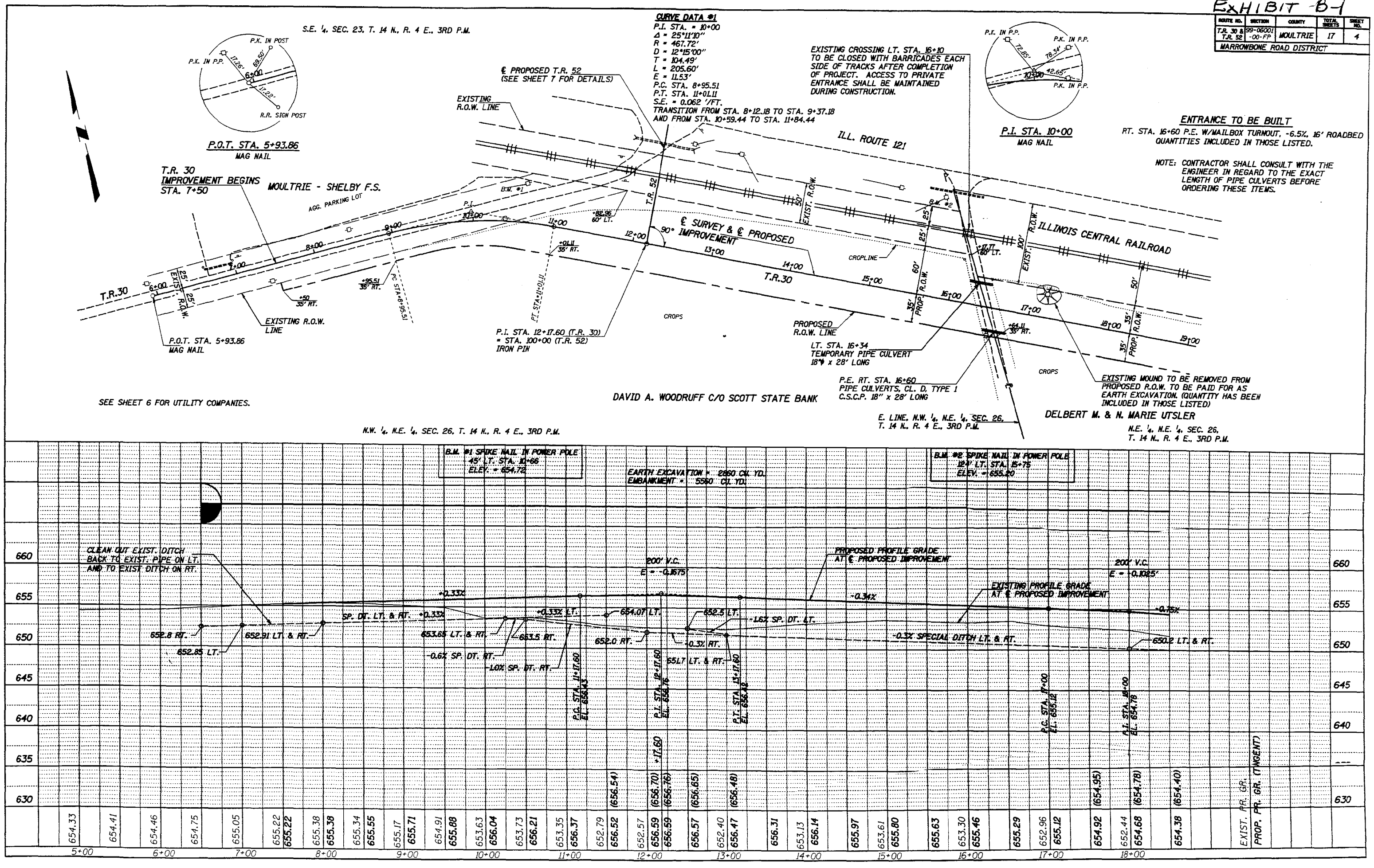
EXHIBIT B-1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 30 & T.R. 52	99-06001 -00-FP	MOULTRIE	17	4
MARROWBONE ROAD DISTRICT				



RT. OF WAY CHECKED
PLAN FILE NAME
NO.
PLANS BOOK
B.M. NOTED
STRUCTURE NOTATIONS CHKD
NO.
PLANS BOOK
NO.

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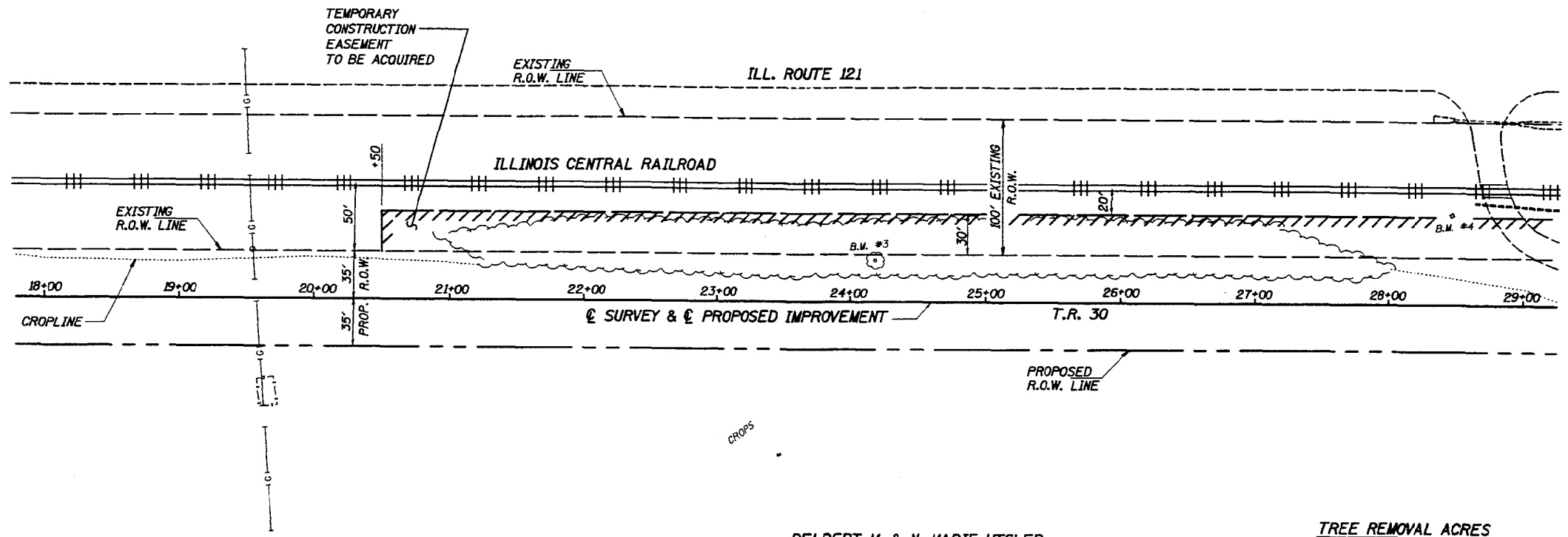
EXHIBIT B-1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 30 & T.R. 52	99-06001-00-FP	MOULTRIE	17	5
MARROWBONE ROAD DISTRICT				



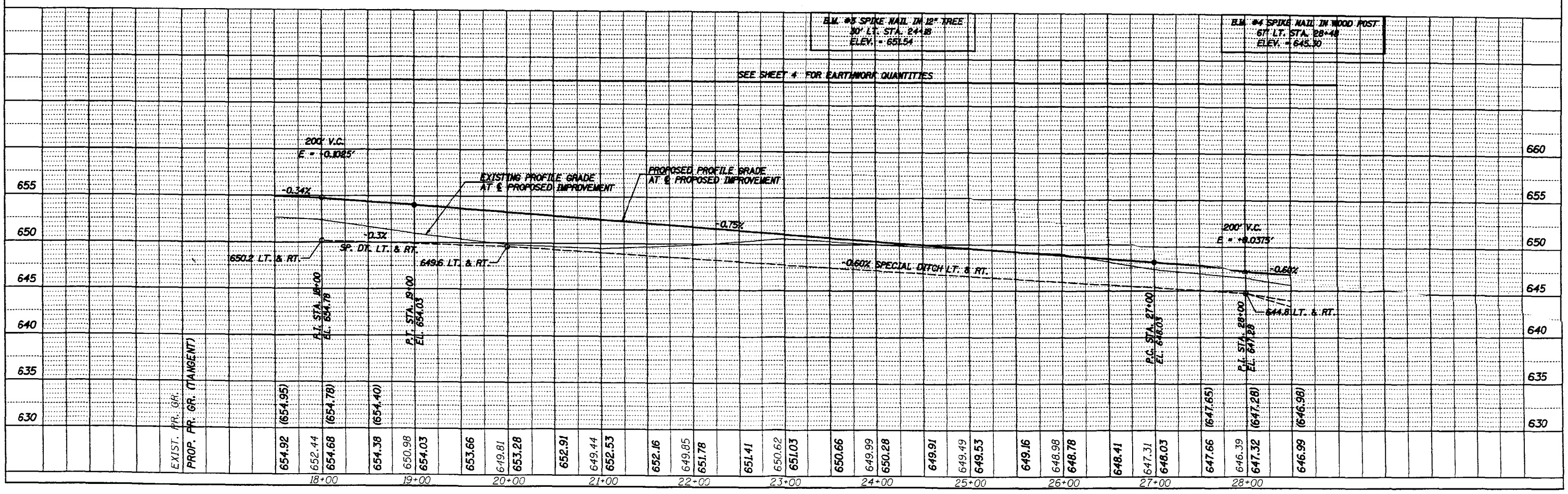
DELBERT M. & N. MARIE UTSLER

SEE SHEET 6 FOR UTILITY COMPANIES.

N.E. ¼, N.E. ¼, SEC. 26, T. 14 N., R. 4 E., 3RD P.M.

TREE REMOVAL ACRES

ALL TREES WITHIN THE FOLLOWING LIMITS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
STA. 21+00 TO STA. 28+50 & 15' LT. TO 65' LT.
TREE REMOVAL ACRES = 0.86 ACRES USE 0.9 ACRES



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NOTE BOOK NO. ____ B.M. NOTED ____ STRUCTURE NOTATYPE CH10

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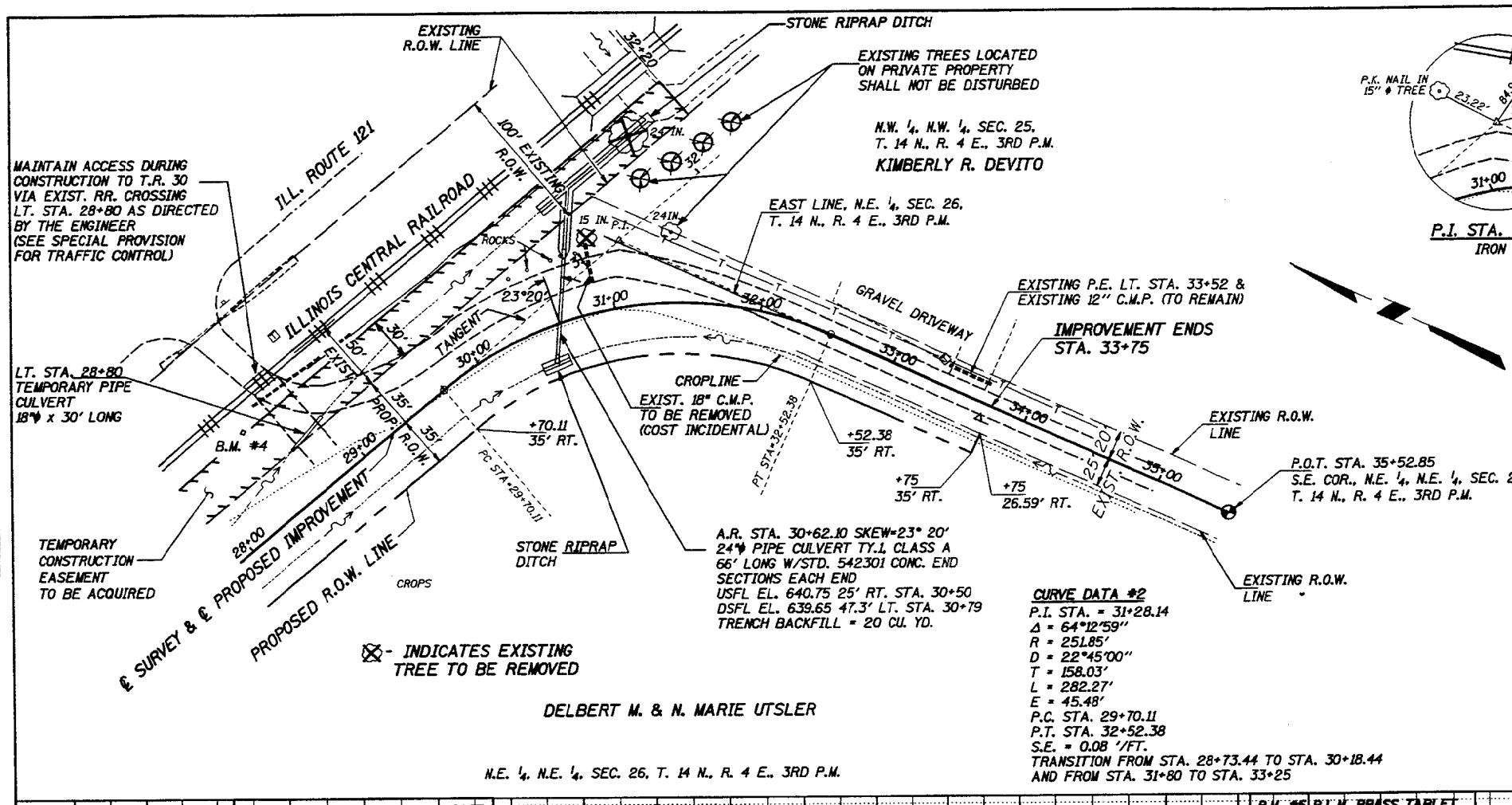
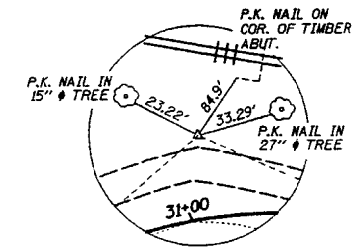
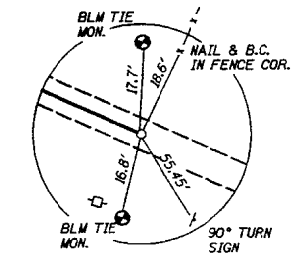
EXHIBIT B-1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 30 & T.R. 52	99-06001-00-FP	MOULTRIE	17	6
MARROWBONE ROAD DISTRICT				





P.I. STA. 31+28.14
IRON PIN



P.O.T. STA. 35+52.85
3/4" φ IRON REBAR
(S.E. COR., N.E. 1/4, N.E. 1/4, SEC. 26)

BURIED PIPELINE

EXXON MOBILE PIPELINE CO.
PATOKA, ILLINOIS
ATTENTION: MR. STEVE FLEMING
(618) 432-5951

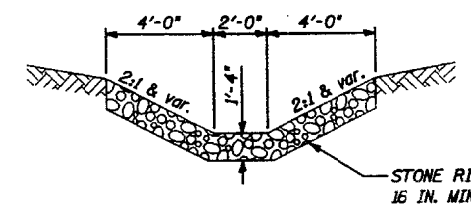
OVERHEAD POWER

AMEREN C.I.P.S.
P.O. BOX 440
TUSCOLA, ILLINOIS 61953
ATTENTION: MR. RILEY ADAMS
PHONE: (217) 253-2346

COLES MOULTRIE ELECTRIC CO-OP
MATTOON, IL 61938
ATTENTION: TOM SHAFER
PHONE: (217) 235-0341

TELEPHONE

G.T.E. NORTH, INC.
1312 E. EMPIRE STREET
P.O. BOX 2955
BLOOMINGTON, ILLINOIS 61701-1118
ATTN: MR. CLIFFORD E. CARNEY



STONE RIPRAP DITCH

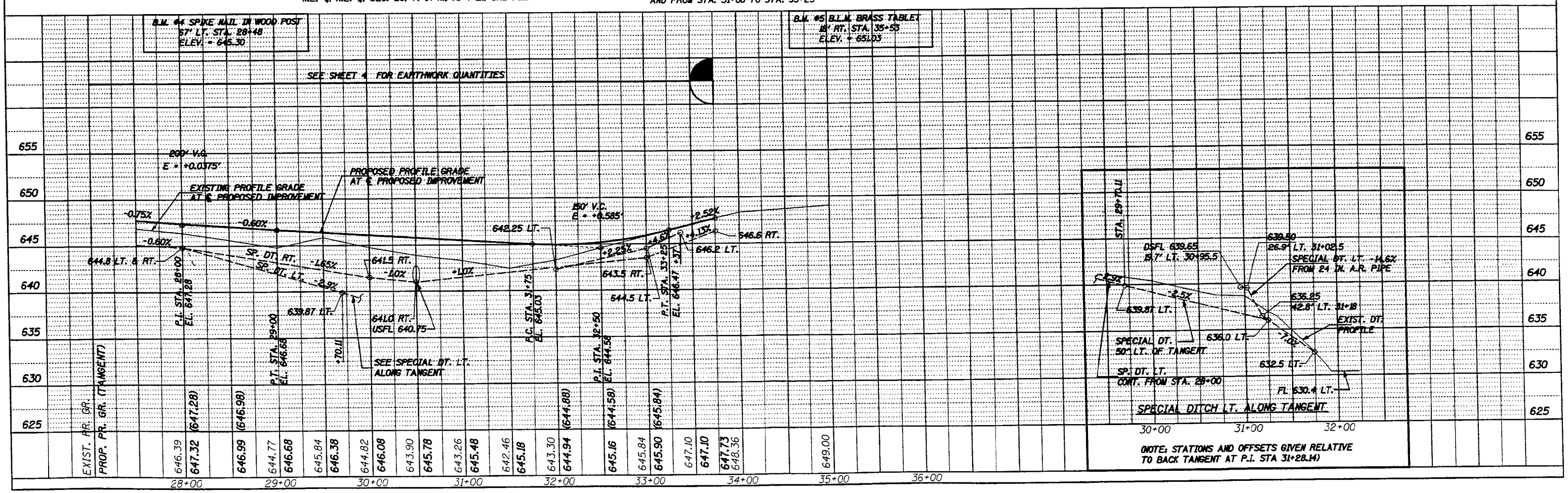
SPECIAL DITCH LT. ALONG TANGENT
50' LT. STA. 31+00 32+00 = 80 TONS
15.4' LT. STA. 30+91.3 TO 50' LT. 31+25 = 34 TONS

AT UPSTREAM END OF 24 IN. A.R. PIPE
RT. STA 30+40 TO STA 30+60 = 16 TONS

TOTAL EST. QUANTITY = 130 TONS

CURVE DATA #2

P.I. STA. = 31+28.14
Δ = 64°12'59"
R = 251.85'
D = 22°45'00"
T = 158.03'
L = 282.27'
E = 45.48'
P.C. STA. 29+70.11
P.T. STA. 32+52.38
S.E. = 0.08 '/FT.
TRANSITION FROM STA. 28+73.44 TO STA. 30+18.44
AND FROM STA. 31+80 TO STA. 33+25



DATE WORK INT. OF ANY CHECKED NO. ____ PAID FILE NAME

B.M. NOTED STRUCTURE NOTATIONS CHKD NO. ____

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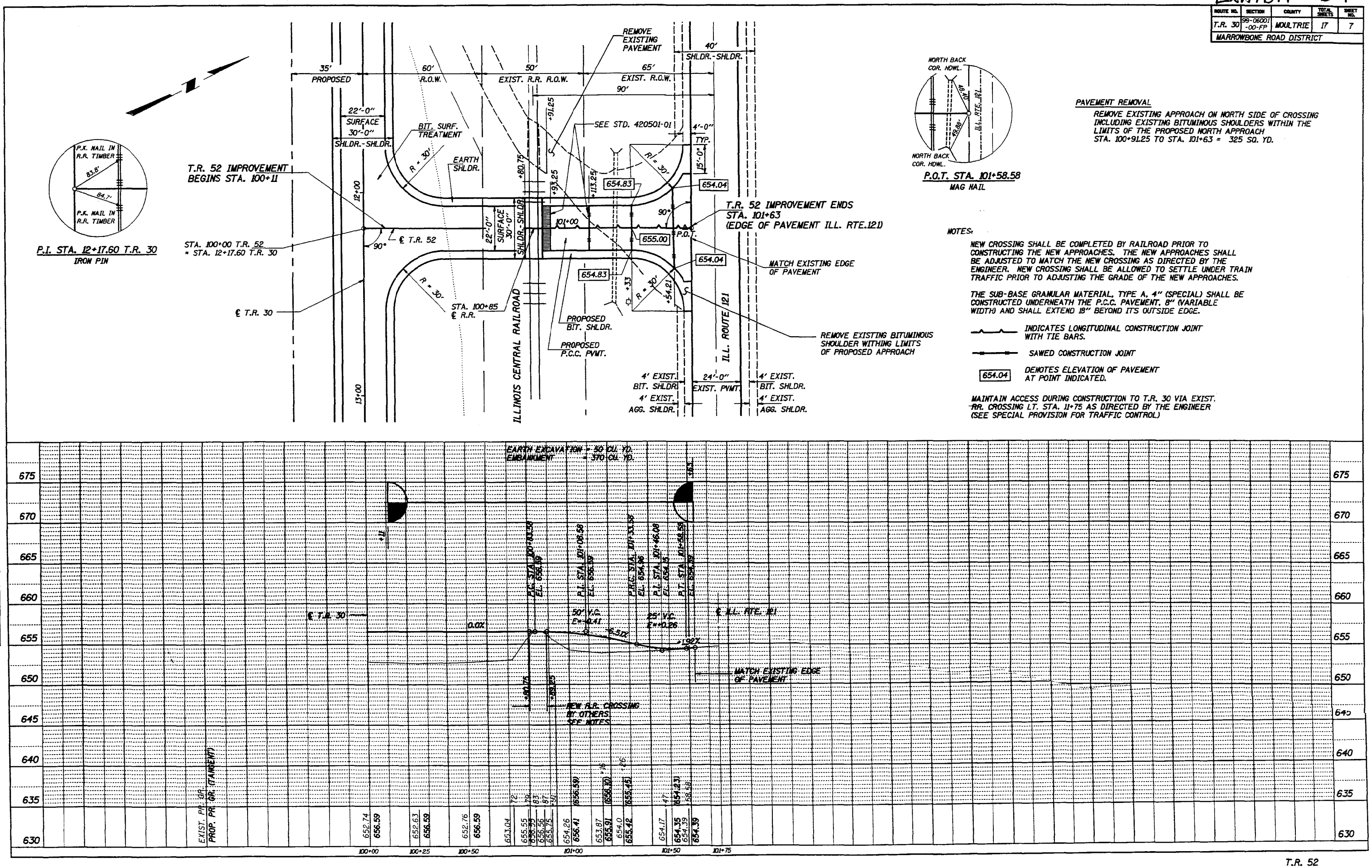
EXHIBIT B-1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 30	99-06001-00-FP	MOULTRIE	17	7
MARROWBONE ROAD DISTRICT				



PAVEMENT REMOVAL

REMOVE EXISTING APPROACH ON NORTH SIDE OF CROSSING INCLUDING EXISTING BITUMINOUS SHOULDERS WITHIN THE LIMITS OF THE PROPOSED NORTH APPROACH STA. 100+91.25 TO STA. 101+63 = 325 SQ. YD.

NOTES:

NEW CROSSING SHALL BE COMPLETED BY RAILROAD PRIOR TO CONSTRUCTING THE NEW APPROACHES. THE NEW APPROACHES SHALL BE ADJUSTED TO MATCH THE NEW CROSSING AS DIRECTED BY THE ENGINEER. NEW CROSSING SHALL BE ALLOWED TO SETTLE UNDER TRAIN TRAFFIC PRIOR TO ADJUSTING THE GRADE OF THE NEW APPROACHES.

THE SUB-BASE GRANULAR MATERIAL, TYPE A, 4" (SPECIAL) SHALL BE CONSTRUCTED UNDERNEATH THE P.C.C. PAVEMENT, 8" (VARIABLE WIDTH) AND SHALL EXTEND 18" BEYOND ITS OUTSIDE EDGE.

INDICATES LONGITUDINAL CONSTRUCTION JOINT WITH TIE BARS.

SAWED CONSTRUCTION JOINT

654.04 DENOTES ELEVATION OF PAVEMENT AT POINT INDICATED.

MAINTAIN ACCESS DURING CONSTRUCTION TO T.R. 30 VIA EXIST. RR. CROSSING LT. STA. 11+75 AS DIRECTED BY THE ENGINEER (SEE SPECIAL PROVISION FOR TRAFFIC CONTROL)

REV. BY: RT. OF WAY CHECKED
NO. ____ TABY FILE NAME ____

REV. BY: B.M. NOTED
NO. ____ STRUCTURE NOTATIONS CHKD

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