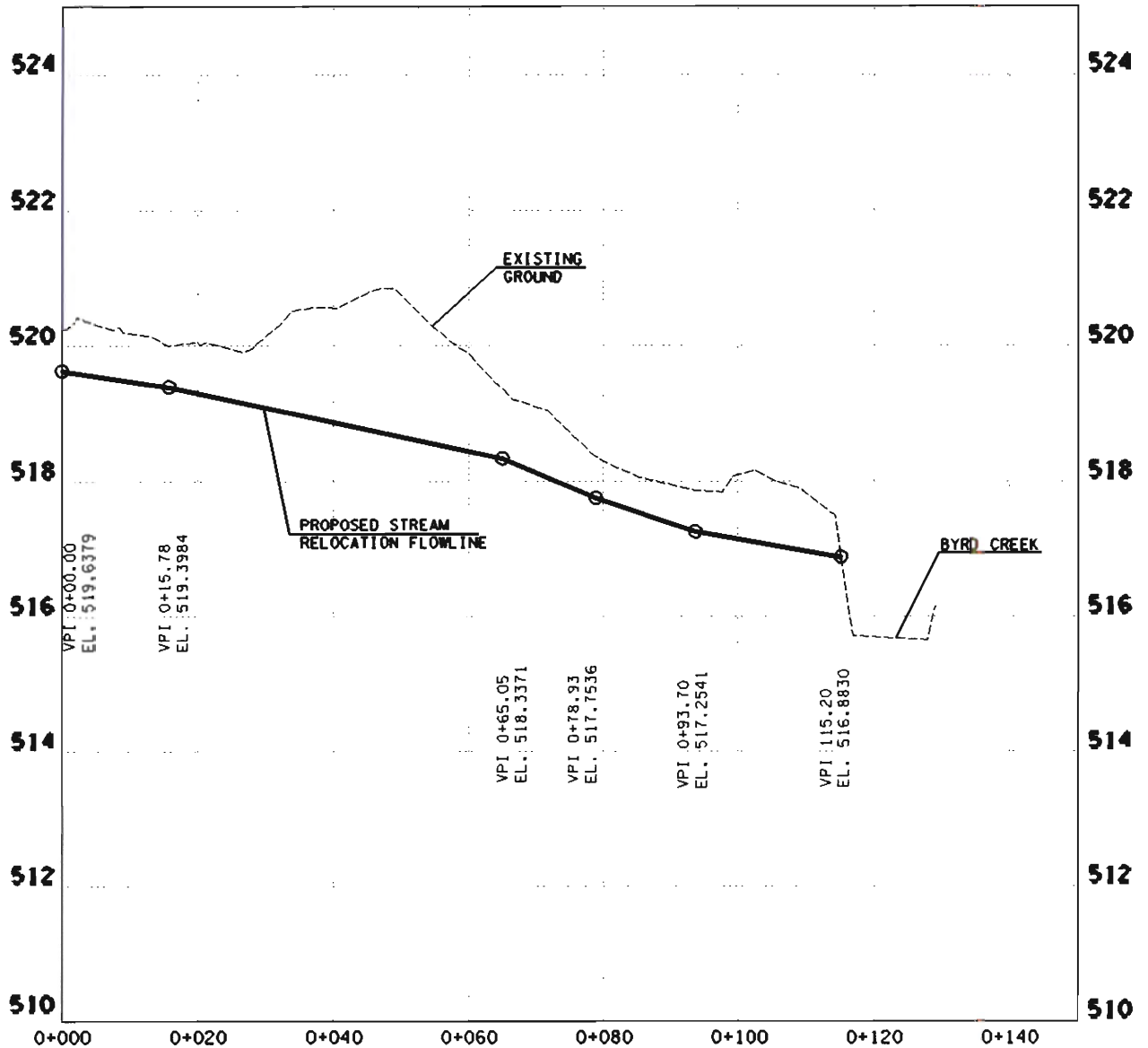


DETAIL 1

NEAREST TOWN: CROSSVILLE SITE #1
SHEET 2 OF 5

REVISÉ: / /

Permit Sketch



PLAN

PROPOSED STREAM RELOCATION PROFILE

DETAIL 1

PROP. STREAM RELOCATION AND WETLANDS SR 28
STA. 17+100 TO STA. 17+220

APPLICATION BY:

TENNESSEE DEPARTMENT OF TRANSPORTATION
PROJECT No. 18006-1209-04

FROM: S.R. 68

TO: EAST CLEVELAND ST. IN CROSSVILLE

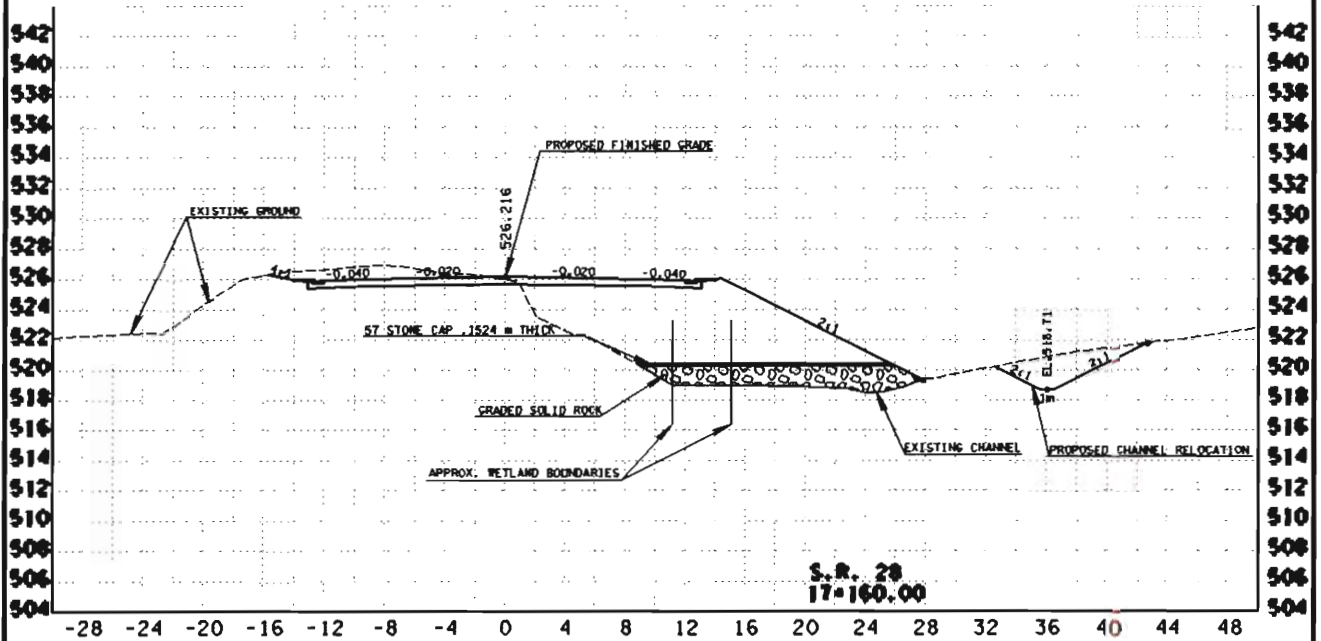
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DATE: 09/02/06

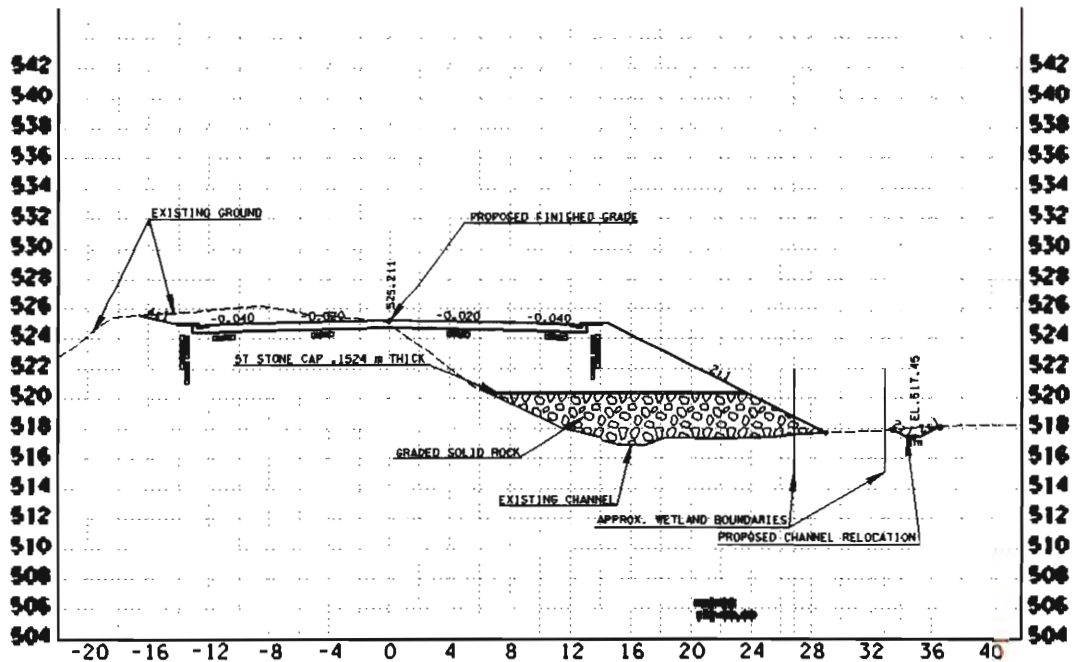
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SHEET 3 OF 5

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SECTION A-A



SECTION B-B

PLAN

PROPOSED STREAM RELOCATION X-SEC

DETAIL 1

PROP. STREAM RELOCATION AND WETLANDS SR 28
STA. 17+100 TO STA. 17+220

DATE: 09/02/06

REVISED: / /

APPLICATION BY:

TENNESSEE DEPARTMENT OF TRANSPORTATION
PROJECT No. 18006-1209-04

FROM: S.R. 68

TO: EAST CLEVELAND ST. IN CROSSVILLE

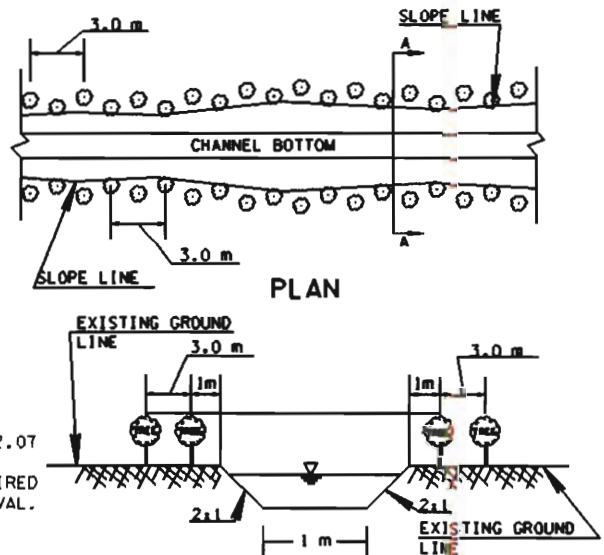
NEAREST TOWN: CROSSVILLE SITE # 1 -

SHEET 4 OF 5

Permit Sketch

NOTES

- 1: THE NEW CHANNEL SHALL BE EXCAVATED AND STABILIZED DURING A LOW-WATER PERIOD. RIPRAP (ONLY AS SHOWN ON PLANS), SEEDING, AND SOD SHALL BE INSTALLED IMMEDIATELY FOLLOWING CHANNEL COMPLETION. TREES SHALL BE INSTALLED IN THE FIRST PLANTING SEASON ONLY AFTER IT IS COMPLETELY STABILIZED AND ONLY DURING A LOW WATER PERIOD. STABILIZED MEANS THAT ALL SPECIFIED ROCK AND EROSION CONTROL BLANKET OR FLEXIBLE CHANNEL LINER IS IN PLACE, AND SEEDING AND SOD ARE IN PLACE AND ESTABLISHED.
- 2: CHANNEL RELOCATION SEQUENCE:
 - A. FLAG EDGE OF THE NEW CHANNEL TOP BANK PRIOR TO CLEARING. DO NOT CLEAR LARGE TREES IN POSITION TO SHADE THE NEW CHANNEL. LEAVE AS MANY TREES AND SHRUBS AS POSSIBLE BETWEEN TOE OF THE NEW HIGHWAY SLOPE AND THE STREAM.
 - B. EXCAVATE THE NEW CHANNEL "IN THE DRY" BY LEAVING AREAS OF UNDISTURBED EARTH (DIVERSION BERMS) IN PLACE AT BOTH ENDS.
 - C. SHAPE CHANNEL TO SPECIFICATIONS SHOWN. REMOVE LOOSE SOILS AND DEBRIS.
 - D. PLACE TOPSOIL, EROSION CONTROL BLANKET OR FLEXIBLE CHANNEL LINER, SEED AND SOD AS SPECIFIED.
 - E. REMOVE DIVERSION BERMS, BEGINNING WITH THE MOST DOWNSTREAM, BANKS AND BOTTOM ELEVATION OF THE OLD CHANNEL SHOULD TRANSITION SMOOTHLY INTO THE NEW CHANNEL. THE ELEVATIONS OF THE NEW CHANNEL BOTTOM AT EACH END OF THE RELOCATION SEQUENCE SHOULD MATCH THE ELEVATIONS OF THE EXISTING CHANNEL, AND A STEADY PERCENT SLOPE SHOULD BE MAINTAINED THROUGHOUT THE RELOCATED CHANNEL CENTERLINE OR AS SPECIFIED.
 - F. INSTALL TREES ACCORDING TO STANDARD SPECIFICATIONS SECTION 802.
- 3: ONLY RIPRAP SHOWN ON PLANS SHOULD BE USED IN THE RELOCATED CHANNEL REACH. ANY OTHER PROPOSED RIPRAP SHOULD BE COORDINATED WITH THE TDOT ENVIRONMENTAL PLANNING AND PERMITS DIVISION THROUGH THE HEADQUARTERS CONSTRUCTION OFFICE.
- 4: REQUESTS BY ANY AGENCY THAT WOULD REQUIRE THE MODIFICATION OF CHANNELS, DITCHES, ELEVATIONS, RIPRAP OR ANY OTHER STREAM MITIGATION ITEMS ASSOCIATED WITH THE CHANNEL RELOCATIONS SHALL BE REFERRED TO THE TDOT ENVIRONMENTAL PLANNING AND PERMITS DIVISION THROUGH THE HEADQUARTERS CONSTRUCTION OFFICE FOR COORDINATION WITH ALL INVOLVED AGENCIES AND TDOT DIVISIONS. TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION MAY MAKE RECOMMENDATIONS CONCERNING EROSION CONTROL VIA THE ENGINEER WITHOUT SUCH REFERRAL.
- 5: TREES.
 - A: NO SUBSTITUTIONS OF TREE SPECIES OR SIZES SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE TDOT ENVIRONMENTAL PLANNING AND PERMITS DIVISION. CONCERNING STREAM MITIGATION, TREES SHALL BE OF THE VARIETY REQUESTED, WELL BRANCHED, WITH BALL AND BURLAP, AND FIRST QUALITY. CONCERNING TEMPORARY WETLAND MITIGATION, TREES SHALL BE OF THE VARIETY REQUESTED, WELL BRANCHED, BARE ROOT (ROOTS MUST BE KEPT MOIST AT ALL TIMES), AND FIRST QUALITY. NO CLONES OR CULTIVARS WILL BE ACCEPTED. ANY FOUND TO BE INCORRECT SPECIES, OR IMPROPERLY PLANTED, AT ANY TIME PRIOR TO TERMINATION OF THE CONTRACT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. STAKES AND WIRES SHALL BE REMOVED IMMEDIATELY PRIOR TO CONTRACT TERMINATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - B: THE CONTRACTOR SHOULD ARRANGE SEVERAL MONTHS AHEAD OF TIME TO OBTAIN THE CORRECT TREE SPECIES, AS SOME MAY REQUIRE SOME TIME TO LOCATE.
 - C: ALL TREES PLANTED SHALL BE WRAPPED AS PER SECTION 802.07 OF TDOT STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION. TREES SHALL BE WATERED AS REQUIRED THROUGHOUT THE PERIOD OF ESTABLISHMENT TO ENSURE SURVIVAL.



PROPOSED CHANNEL CROSS-SECTION A-A

TREE SPECIES	
SALIX NIGRA (BLACK WILLOW)	1 1/2" - 1 1/2" CALIPER, BALL AND BURLAP
LIRIODENDRON TULIPIFERA (TULIP POPLAR)	1 1/2" - 1 1/2" CALIPER, BALL AND BURLAP
ACER RUBRUM (RED MAPLE)	1 1/2" - 1 1/2" CALIPER, BALL AND BURLAP
PLATANUS OCCIDENTALIS (SYCAMORE)	1 1/2" - 1 1/2" CALIPER, BALL AND BURLAP
LIQUIDAMBAR STYRACIFLUA (SWEETGUM)	1 1/2" - 1 1/2" CALIPER, BALL AND BURLAP

NOT TO SCALE

APPLICATION BY:

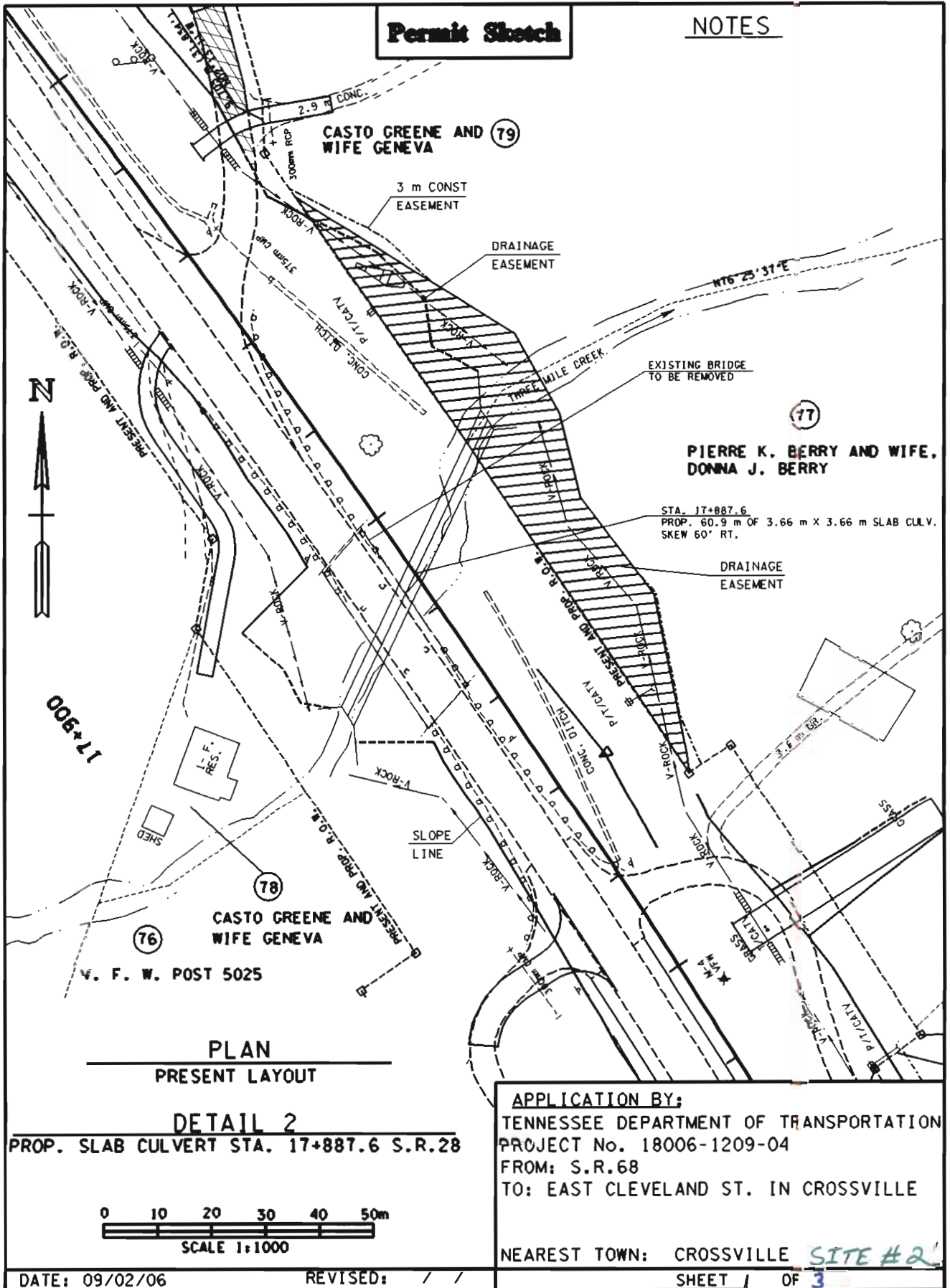
TENNESSEE DEPARTMENT OF TRANSPORTATION
PROJECT No. 18006-1209-04
FROM: S.R.68
TO: EAST CLEVELAND ST IN CROSSVILLE

NEAREST TOWN: CROSSVILLE **SITE # 1**

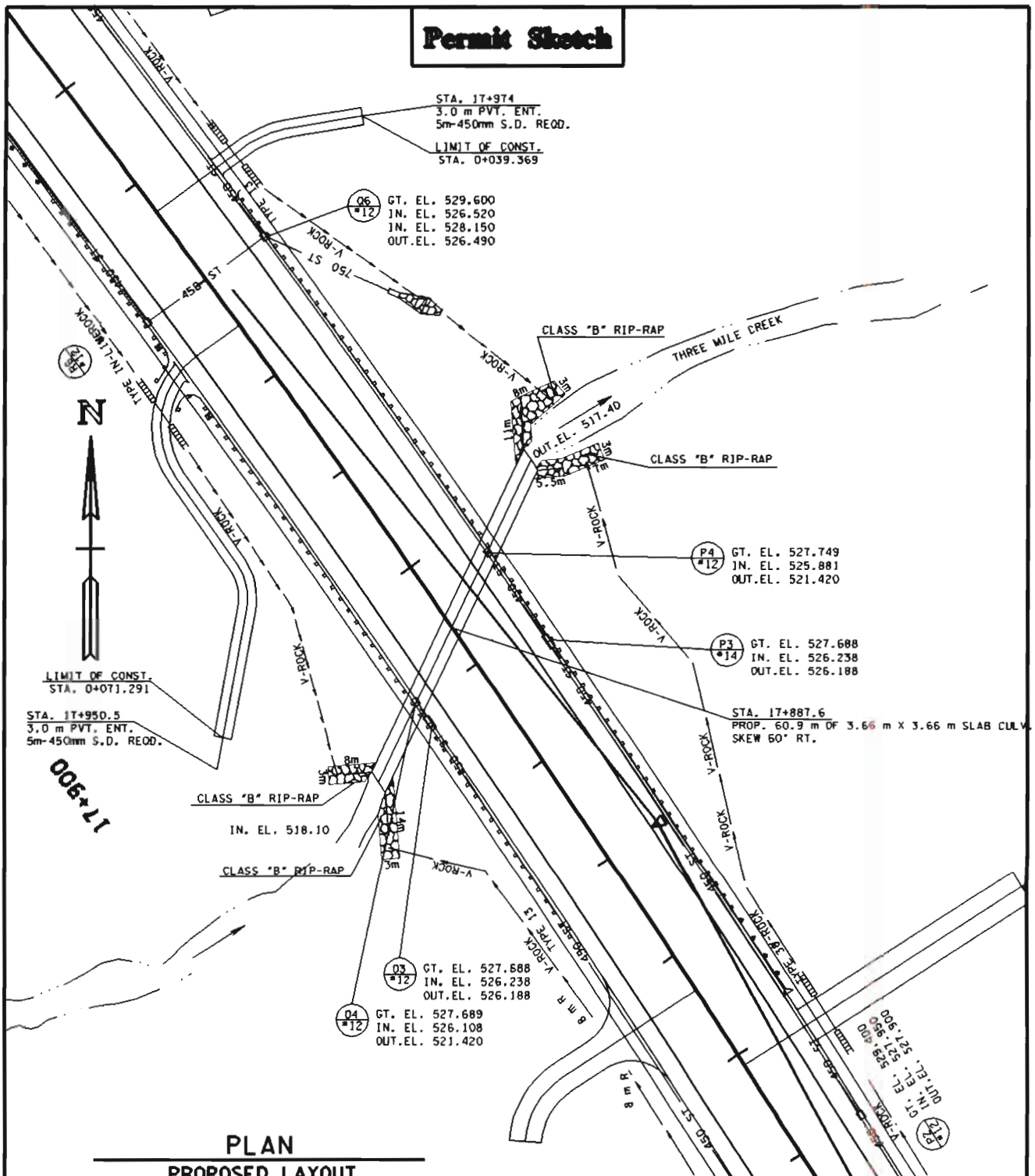
DATE: 09/02/06

REVISED: / /

SHEET 5 OF 5



Permit Sketch



PLAN
PROPOSED LAYOUT

DETAIL 2

PROP. SLAB CULVERT STA. 17+887.6 S.R.28



APPLICATION BY:

TENNESSEE DEPARTMENT OF TRANSPORTATION
PROJECT No. 18006-1209-04

FROM: S.R. 68

TO: EAST CLEVELAND ST. IN CROSSVILLE

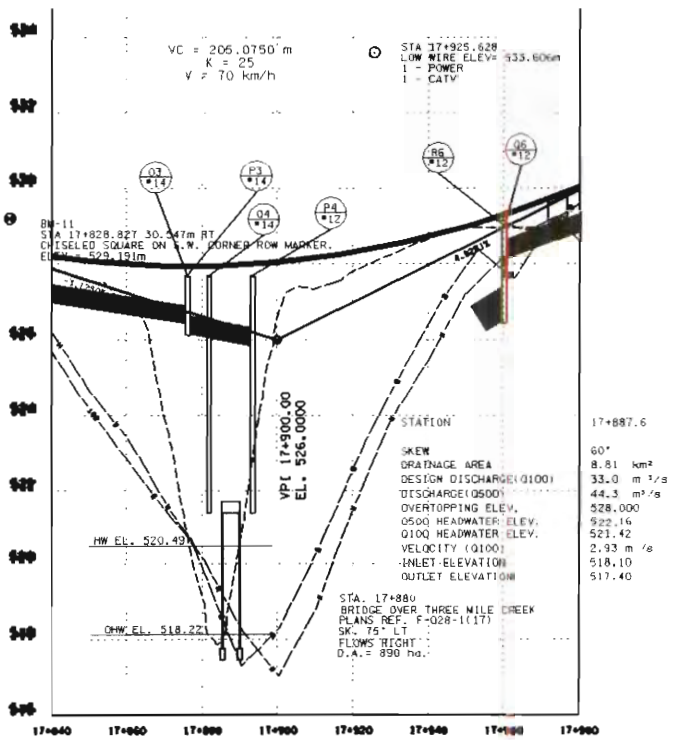
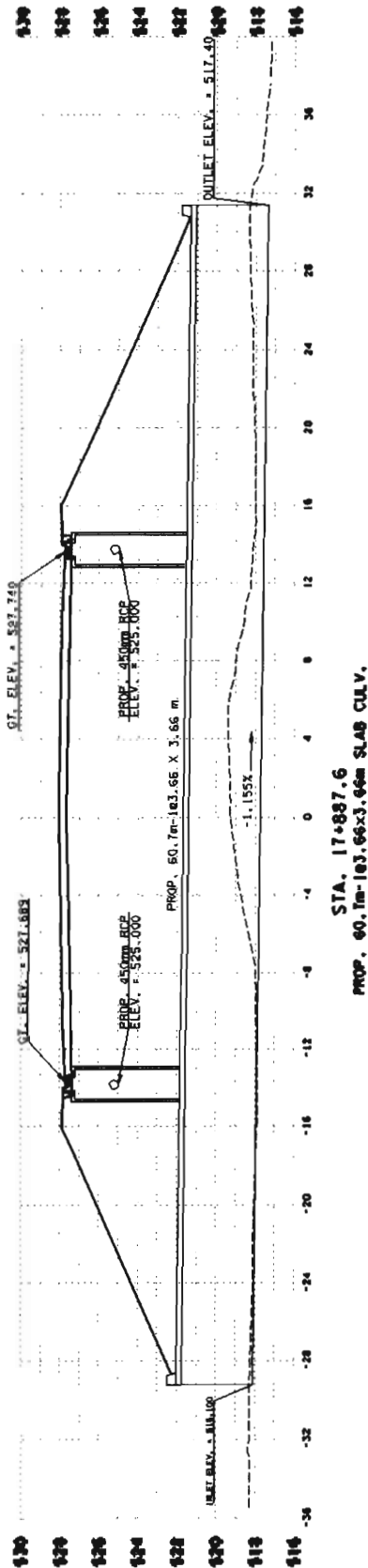
NEAREST TOWN: CROSSVILLE **SITE #2**

DATE: 09/02/06

REVISED: / /

SHEET **2** OF **3**

Permit Sketch



PROFILE

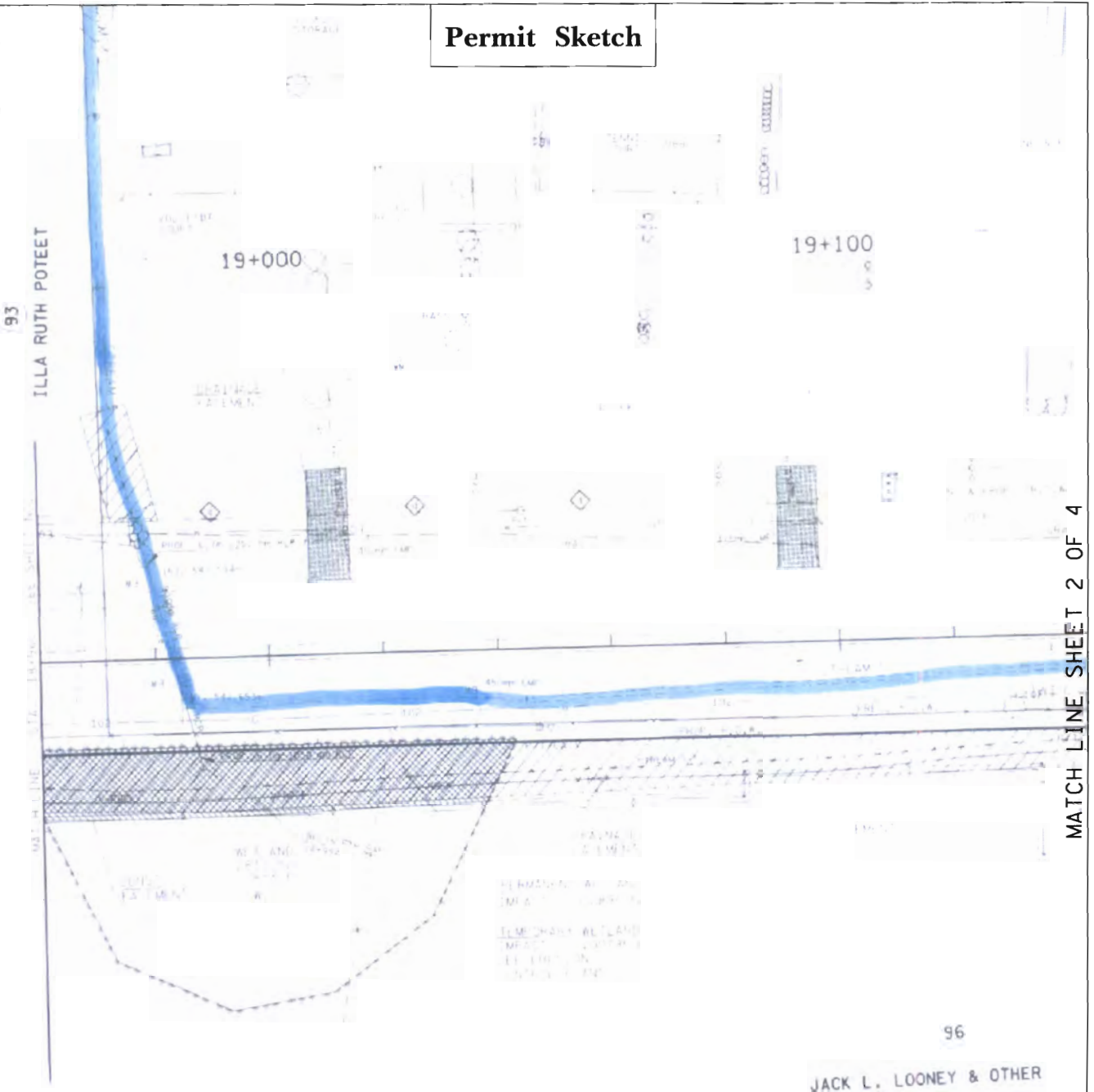
DETAIL 2

PROP. SLAB CULVERT STA. 17+887.6 S.R.28

APPLICATION BY:
 TENNESSEE DEPARTMENT OF TRANSPORTATION
 PROJECT No. 18006-1209-04
 FROM: S.R.68
 TO: EAST CLEVELAND ST. IN CROSSVILLE

NEAREST TOWN: CROSSVILLE SITE #2

Permit Sketch



JACK L. LOONEY & OTHER

SITE #3, SITE #4

PRESENT LAYOUT

APPLICATION BY:
 TENNESSEE DEPARTMENT OF TRANSPORTATION
 QUAD CROSSVILLE, TN QUADRANGLE 109-NE
 PE # 18006-1209-04
 PIN # 101044.00
 SR-28 US-127
 Widen from SR-68 (S of Saw Mill Rd) to
 Hayes St (Cleveland St) in Crossville

DATE: 03/12/10

REVISED: / /

SHEET 1 OF 4

Permit Sketch

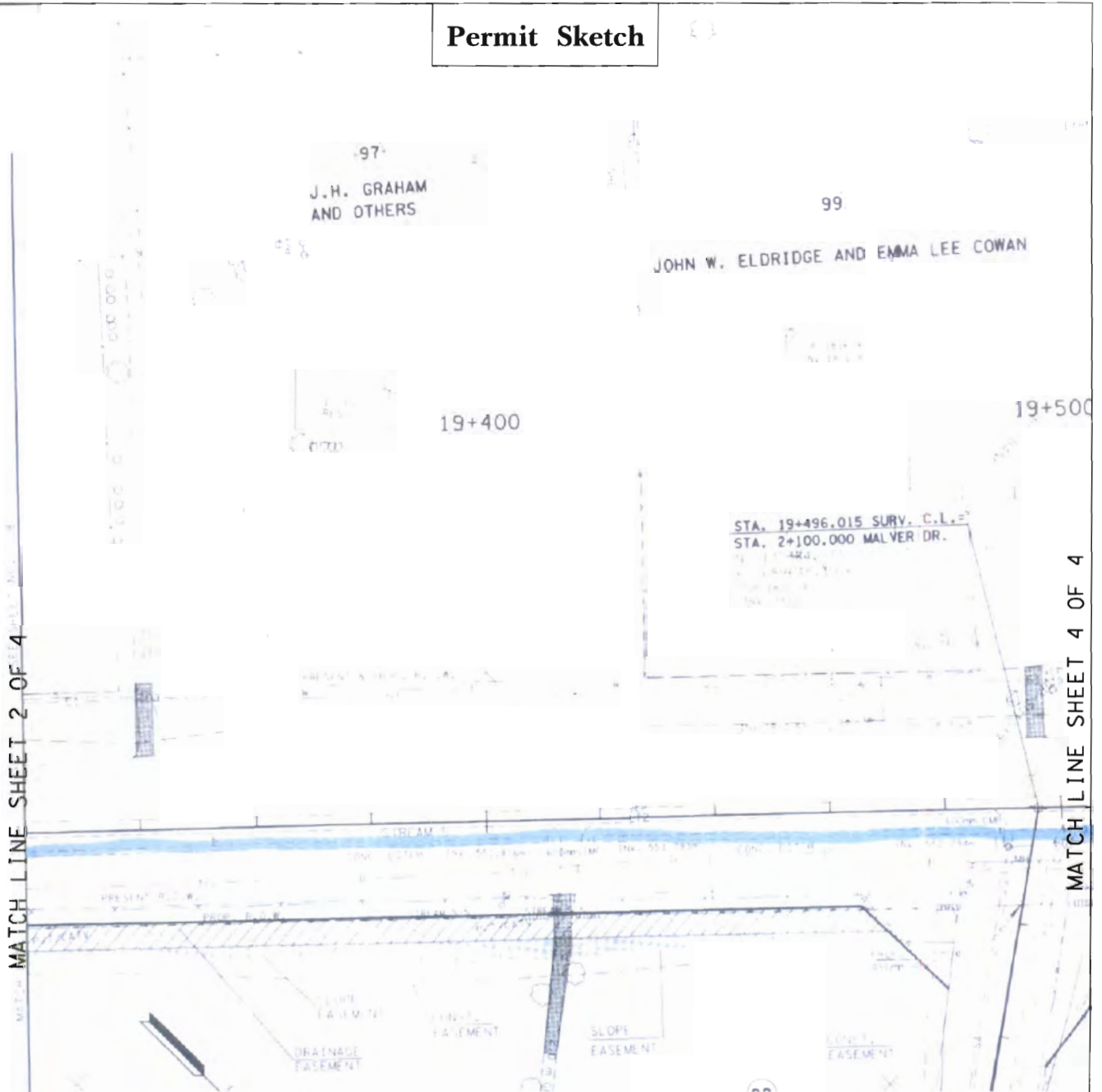


SITE #3, SITE #4

PRESENT LAYOUT

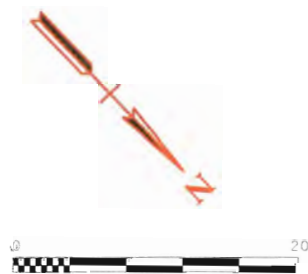
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Permit Sketch



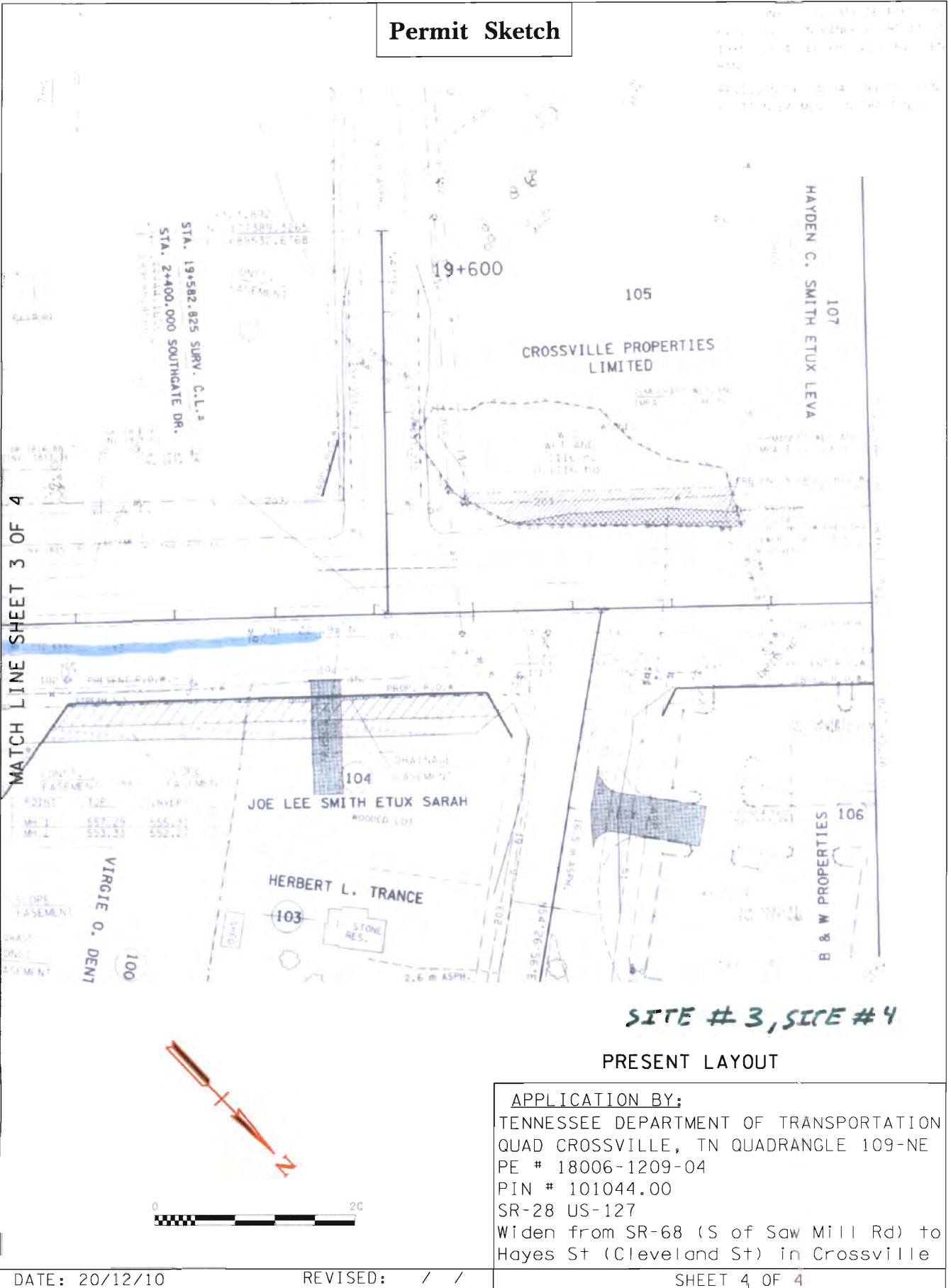
SITE #3, SITE #4

PRESENT LAYOUT



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Permit Sketch



SITE # 3, SITE # 4

PRESENT LAYOUT

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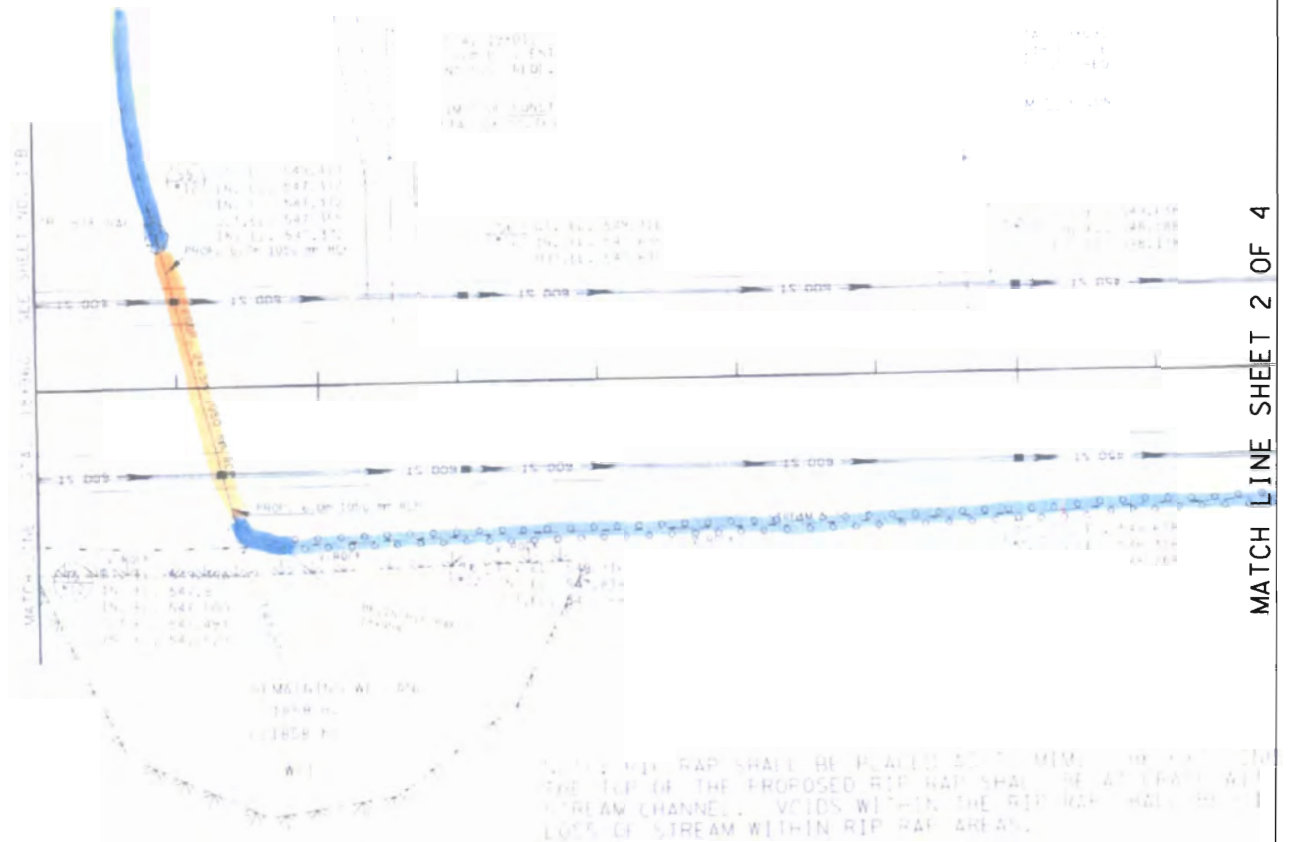
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SHEET 4 OF 4

Permit Sketch

19+000

19+100



MATCH LINE SHEET 2 OF 4

SITE # 3, SITE # 4

PROPOSED LAYOUT

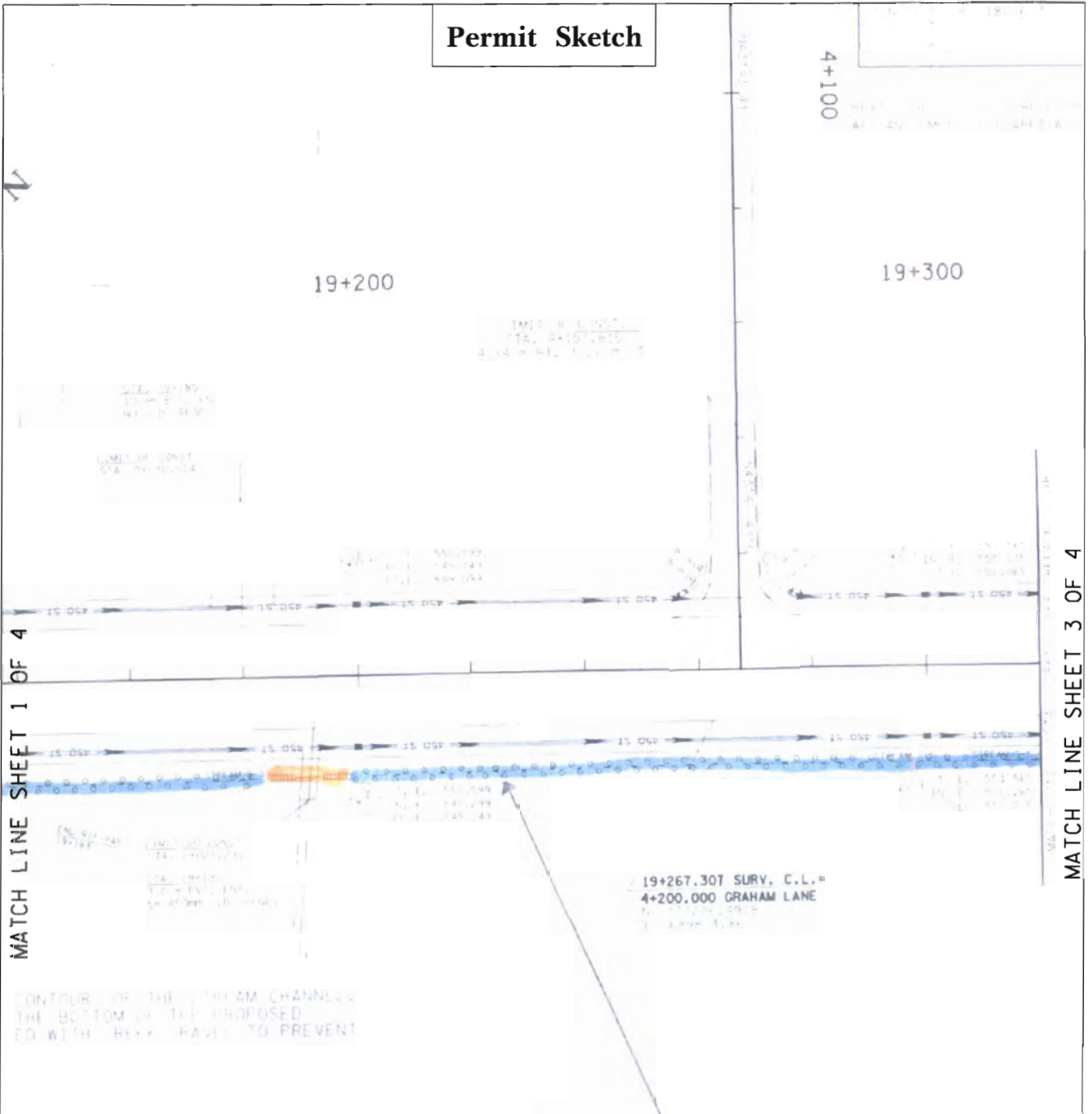
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SHEET 1 OF 5

Permit Sketch



MATCH LINE SHEET 1 OF 4

MATCH LINE SHEET 3 OF 4

CONTOUR OF THE STREAM CHANNEL
THE BOTTOM OF THE PROPOSED
ED WITH REXX GRAVEL TO PREVENT

SITE #3, SITE #4

PROPOSED LAYOUT

APPLICATION BY:
TENNESSEE DEPARTMENT OF TRANSPORTATION
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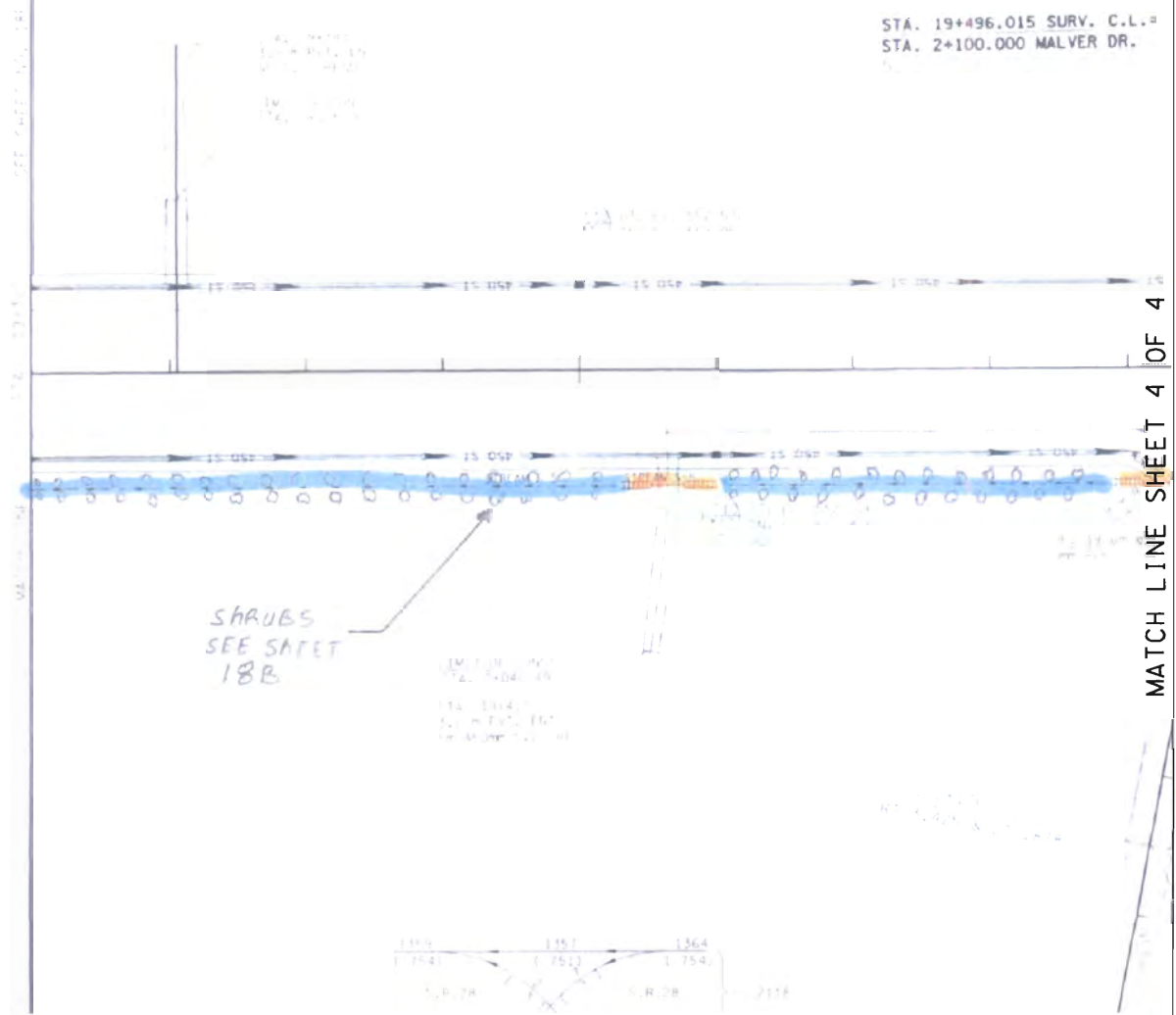
MATCH LINE SHEET 2 OF 4

Permit Sketch



19+400

STA. 19+496.015 SURV. C.L.
STA. 2+100.000 MALVER DR.



MATCH LINE SHEET 4 OF 4

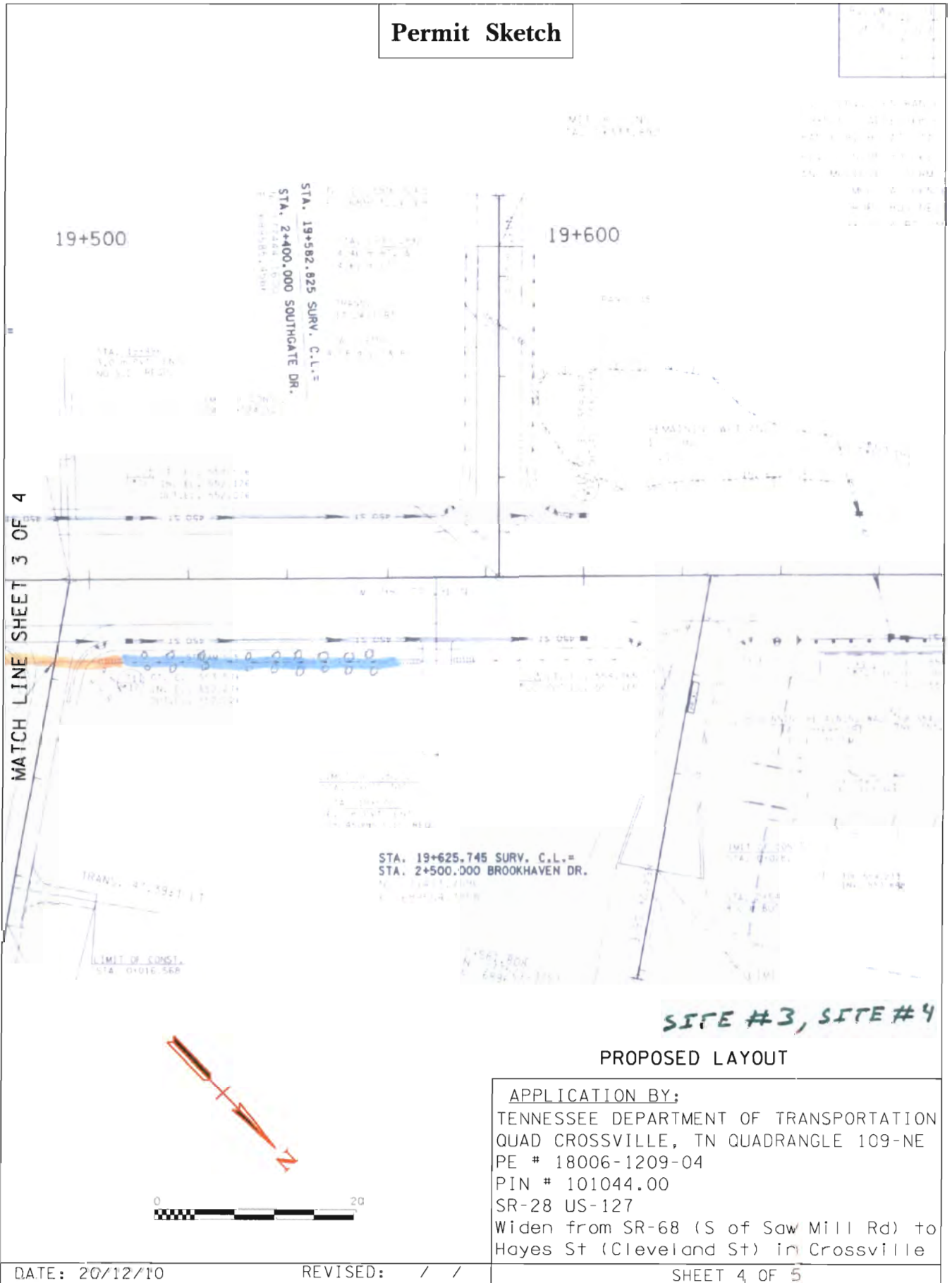
SITE #3, SITE #4

PROPOSED LAYOUT

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QUAD CROSSVILLE, TN QUADRANGLE 109-NE
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Permit Sketch



Permit Sketch

802-13.03 Cephalanthus occidentalis (buttonbush) 2-5 ft in height, containerized
802-13.20 Calycanthus floridus (sweet shrub) 2-5 ft in height, containerized
802-13.06 Hydrangea quercifolia (oakleaf hydrangea) 2-5 ft in height, containerized
802-12.10 Sambucus canadensis (elderberry) 2-5 ft in height, containerized

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802-12.10 Sambucus canadensis (elderberry) 2-5 ft in height, containerized

Shrubs shall be planted on 10 ft centers along both sides of the new channel

TREASURY

SITE #3, SITE #4

PROPOSED LAYOUT NOTES

APPLICATION BY:

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SHEET 5 OF 5

Permit Sketch

123

123

CENTRAL BAPTIST CHURCH, INC.

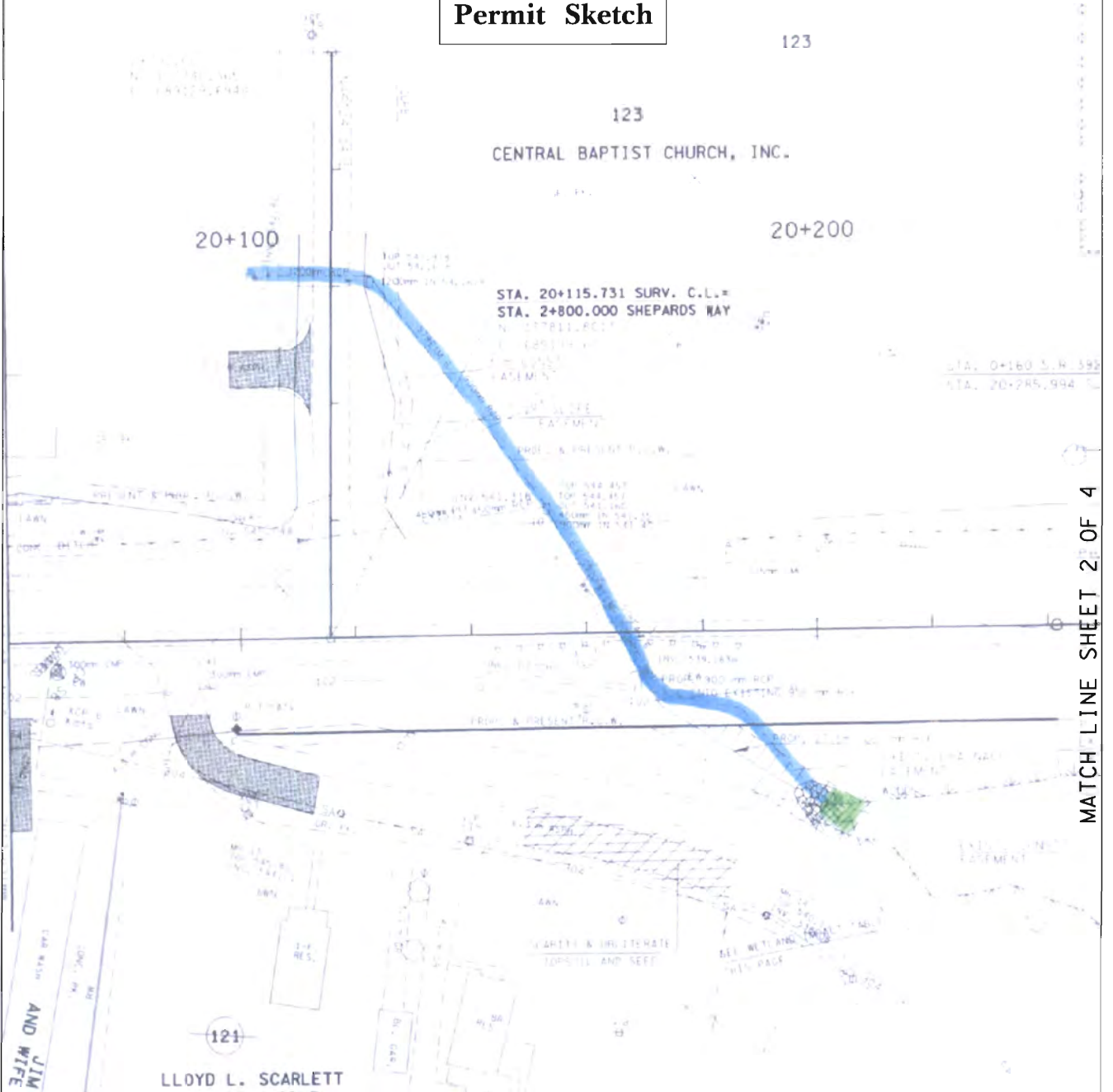
20+100

20+200

STA. 20+115.731 SURV. C.L.
STA. 2+800.000 SHEPARD'S WAY

STA. 0+160 S.R. 392
STA. 20+285.994

MATCH LINE SHEET 2 OF 4



LLOYD L. SCARLETT

SITE #6

PRESENT LAYOUT

APPLICATION BY:

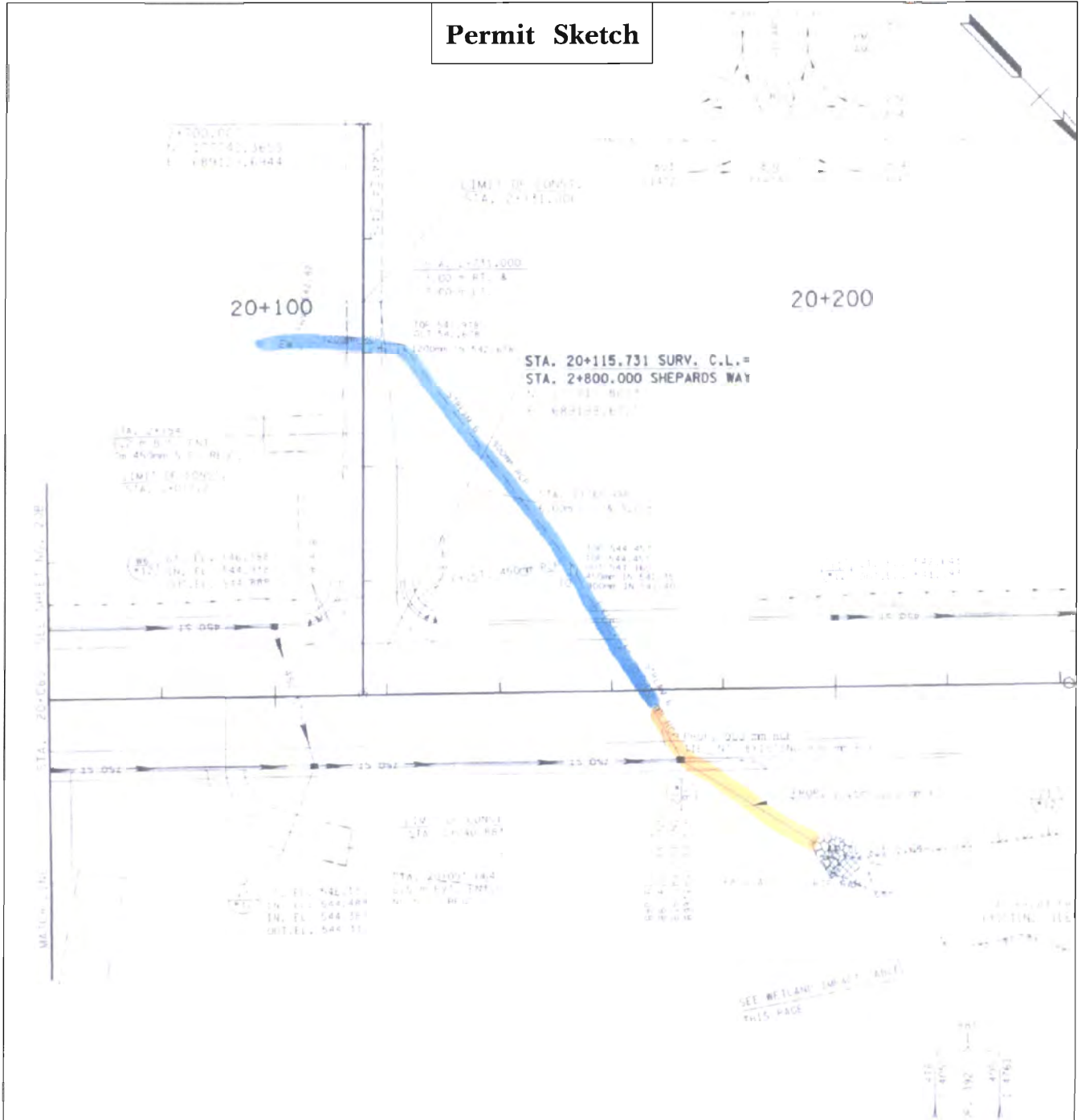
TENNESSEE DEPARTMENT OF TRANSPORTATION
QUAD CROSSVILLE, TN QUADRANGLE 109-NE
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Permit Sketch



SITE #6

PROPOSED LAYOUT

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SHEET 1 OF 1