

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|-----------|--------------|-----------|
| 774 | * | EFFINGHAM | 273 | 89 |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT | | | | |
| * 107WRS-1, 107BY, 107BY-1 & 107B-2 | | | | |
| CONTRACT NO. 94827 | | | | |

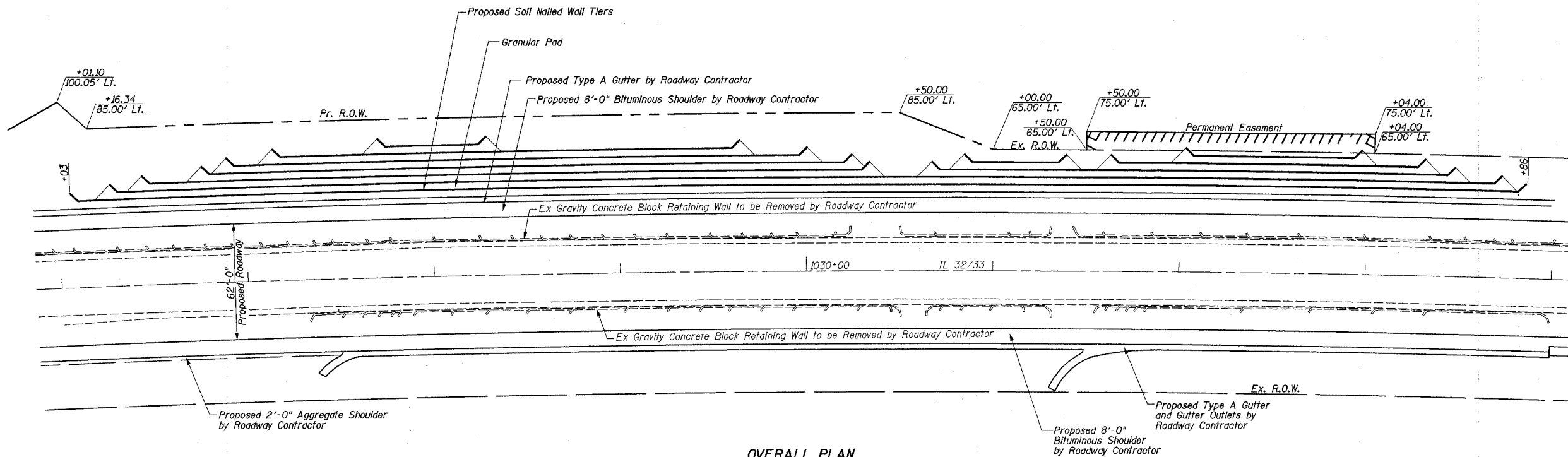
SHEET NO. 1
OF 14 SHEETS

Benchmarks:

BM #60: 79' RT, Sta. 1024+86, Elev. 548.63
Chisled "X" on North Flange Bolt of Fire Hydrant
BM #12: 18' RT, Sta. 1030+71, Elev. 570.76
Chisled "□" Back of Gutter at Southwest Corner of Drop Inlet

Existing Structure:

Existing Structure consists of a Gravity Concrete Block Retaining Wall with approximately 850' of total length. Entire Retaining Wall to be removed. Removal by Roadway Contractor. Two lane, two way traffic to be maintained at all times per Stage Construction Plans. No salvage.



OVERALL PLAN

TOTAL BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|---|-------|----------|
| EARTH EXCAVATION (SPECIAL) | CU YD | 13,527 |
| SOIL NAILED WALL | SQ FT | 14,690 |
| PIPE UNDERDRAINS, FABRIC LINED TRENCH, 6" | FOOT | 823 |
| GEO COMPOSITE WALL DRAIN | SQ YD | 490 |

HORIZ. CURVE DATA

P.I. = Sta. 1014+09.68
 $\Delta = 25^{\circ}19'45''$ (RT)
 $D = 0^{\circ}30'00''$
 $R = 11,456.75'$
 $L = 5,064.76'$
 $T = 2,574.44'$
 $E = 285.69'$
 $S.E. = 1.56\%$
P.C. = Sta. 988+35.24
P.T. = Sta. 1039+00.00
SE Attained Sta. 985+68.57 to Sta. 989+68.57
SE Removed Sta. 1037+66.67 to Sta. 1041+66.67

SEQUENCE OF CONSTRUCTION:

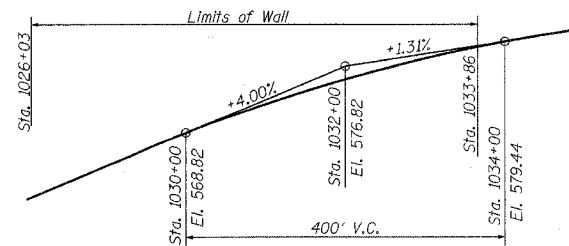
1. Excavate temporary 2:1 maximum backslope above and beyond top of upper most soil nailed wall tier.
2. Excavate at wall face to below (next) soil nail elevation or as indicated in the soil nailed wall shop drawings.
3. Drill and grout soil nails.
4. Place geocomposite wall drain weepholes, reinforcement and apply shotcrete.
5. Once sufficient strength is obtained, install soil nail head against shotcrete.
6. Repeat steps 2 through 5, lapping reinforcement to upper layer and splicing geocomposite wall drain with weep hole until bottom of tier is reached.
7. Repeat steps 2 through 6 at next tier offset until lowest tier is completed.
8. Install Pipe Underdrain and Outlet at the low end of wall.
9. Backfill trench to grade shown with Cohesive Soil
10. Place 6" Granular Pad on each Tier.

DESIGN SPECIFICATIONS

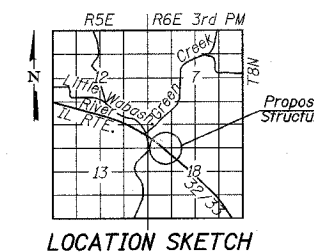
2002 AASHTO Standard Specification
For Highway Bridges

GENERAL NOTES:

1. Wall layout based on cross-sections printed in plans and best available data. See Sheets 7-14 of 14 for Soil Borings. Layout may be varied in field to suit actual conditions with approval of the Engineer.
2. Contractor to verify utility locations with J.U.L.I.E. prior to any excavation work.
3. Soil Nails: AASHTO M-31 (or 60 or 75) or ASTM A 722 (Grade 150)
Grout: AASHTO T-106 f'c = 3000 psi
Shotcrete: f'c 3000 psi
4. See Special Provisions for additional requirements.



IL 32/33 PROPOSED PROFILE GRADE



LOCATION SKETCH



Sheila J. Kimlinger 5/1/05
Sheila J. Kimlinger, P.E., S.E. Date
Structural Engineer License No. 081-005283
Expiration Date: 11/30/2006

GENERAL PLAN
ILLINOIS ROUTE 32/33
F.A.P. ROUTE 774
SECTION 107 WRS-1, 107BY,
107BY-1 & 107B-2
EFFINGHAM COUNTY
RETAINING WALL
STA. 1026+03.00 LT. TO STA. 1033+86.00 LT.
STRUCTURE NUMBER 025-W008