

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774	(107, 107Z) LS	EFFINGHAM	22	11
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

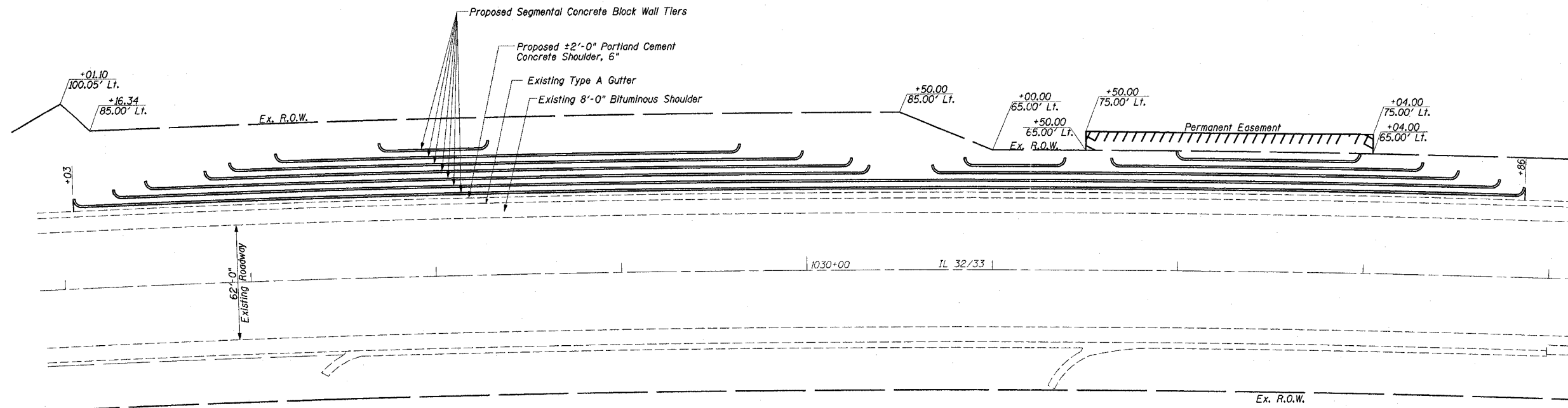
SHEET NO. 1  
OF 12 SHEETS

CONTRACT NO. 74128

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



OVERALL PLAN

(Existing Soil Nailed Walls not shown for clarity)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
PIPE DRAINS, 4"	FOOT	3,832
SEGMENTAL CONCRETE BLOCK WALL	SQ FT	20,815
PORTLAND CEMENT CONCRETE SHOULDERS, 6"	SQ YD	174

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specification  
for Highway Bridges

SEQUENCE OF CONSTRUCTION:

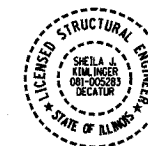
- Excavate at the lowest level tier as required to install front pipe drain and backfill with select granular backfill.
- Place the granular leveling pad and set the initial course of block at tier.
- Place pipe drain behind block and backfill between existing face of soil nailed wall and back of proposed block wall with select granular backfill.
- Place subsequent courses of block. Place select granular backfill and soil reinforcement (as required) in lifts per shop drawings to top of adjacent soil nailed tier.
- Move to next tier and repeat steps 2 through 4 for next tier.
- Set remaining 2 feet of block on previous tier, place geotechnical fabric between walls and backfill with cohesive material.
- Repeat steps 2 through 6 until upper most tier is reached. Grade to final 3:1 backslope.

GENERAL NOTES:

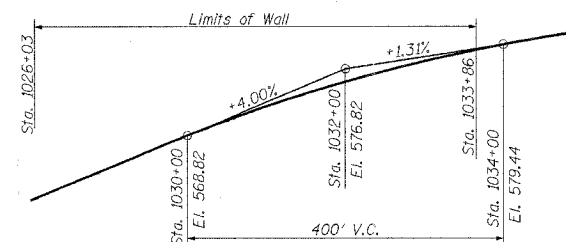
- Layout of segmental concrete block wall based on existing soil nailed wall design drawings. Layout may be varied in field to suit actual existing conditions with approval of the Engineer.
- See Sheets 5-12 of 12 for Soil Borings.
- Contractor to verify utility locations with J.U.L.I.E. prior to any excavation work.
- Materials:  
Concrete Block ASTM C 1372
- See Special Provisions for additional requirements.
- Landscape and Wood Chip Tiers per plans immediately following wall construction.
- Seed disturbed areas beyond top tier per General Notes Sheet 2 of 12.

HORIZ. CURVE DATA

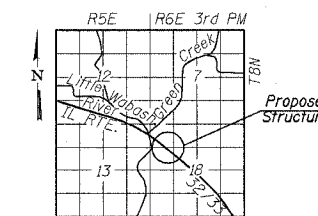
P.I. = Sta. 1014+09.68  
 $\Delta = 25^{\circ}19'45''$  (RT)  
 $D = 0^{\circ}30'00''$   
 $R = 11,456.75'$   
 $L = 5,064.76'$   
 $T = 2,574.44'$   
 $E = 285.69'$   
 $S.E. = 1.56\%$   
 P.C. = Sta. 988+35.24  
 P.T. = Sta. 1039+00.00  
 SE Attained Sta. 985+68.57 to Sta. 989+68.57  
 SE Removed Sta.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



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



IL 32/33 PROFILE GRADE



LOCATION SKETCH

GENERAL PLAN  
ILLINOIS ROUTE 32/33  
F.A.P. ROUTE 774  
EFFINGHAM COUNTY  
RETAINING WALL  
STA. 1026+03.00 LT. TO STA. 1033+86.00 LT.  
STRUCTURE NUMBER 025-W008