CONTRACT NO. 72891

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	2(B-5,B-6)	PIKE	112	53
STA. 403+85		TO STA. 404+50		
FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		

SN075-2508 Sheet 4 of 11

Refer to the special provisions for Geotextile Retaining Walls for construction details and design requirements.

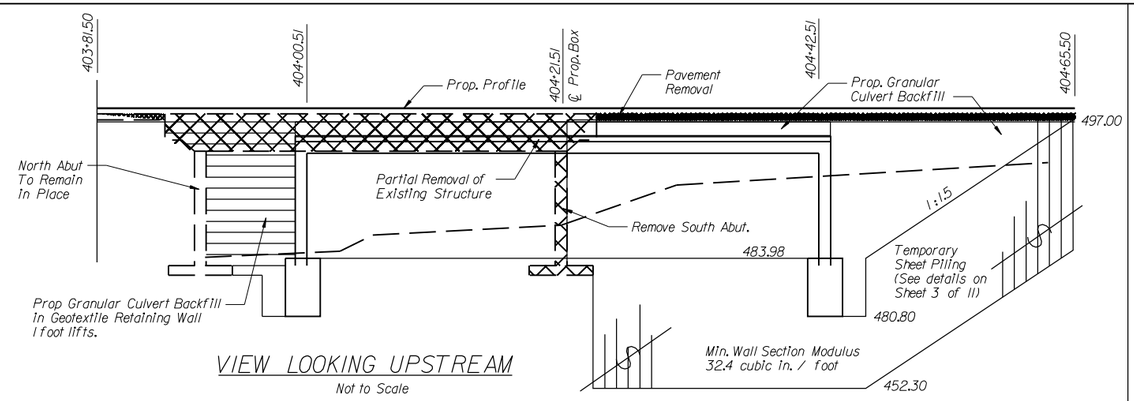
The geotextile fabric shall meet a T minimum of 509 pounds per foot. Use CA-6 OR CA-10 as the backfill material. The backfill in the reinforced mass will not be paid for separately but included in the unit price bid per square foot for Geotextile Retaining Walls. Payment for backfill in the other areas outside the reinforced mass will be paid for at the unit price bid for Granular Culvert Backfill.

Temporary Sheet Piling shall meet a minimum section modulus per foot of wall of 32.4 cubic inches. (See details on Sheet 3 of 11)

Refer to the Special Provisions for Temporary Sheet Piling for construction details and design requirements.

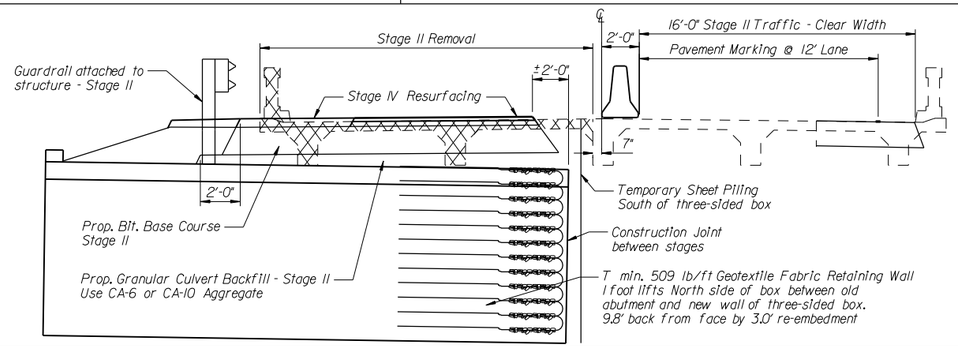
BILL OF MATERIALS

Geotextile Retaining Wall	176 Sq. Ft.
Temporary Sheet Piling	1783 Sq. Ft.
Granular Culvert Backfill	488 Cu. Yd.



VIEW LOOKING UPSTREAM

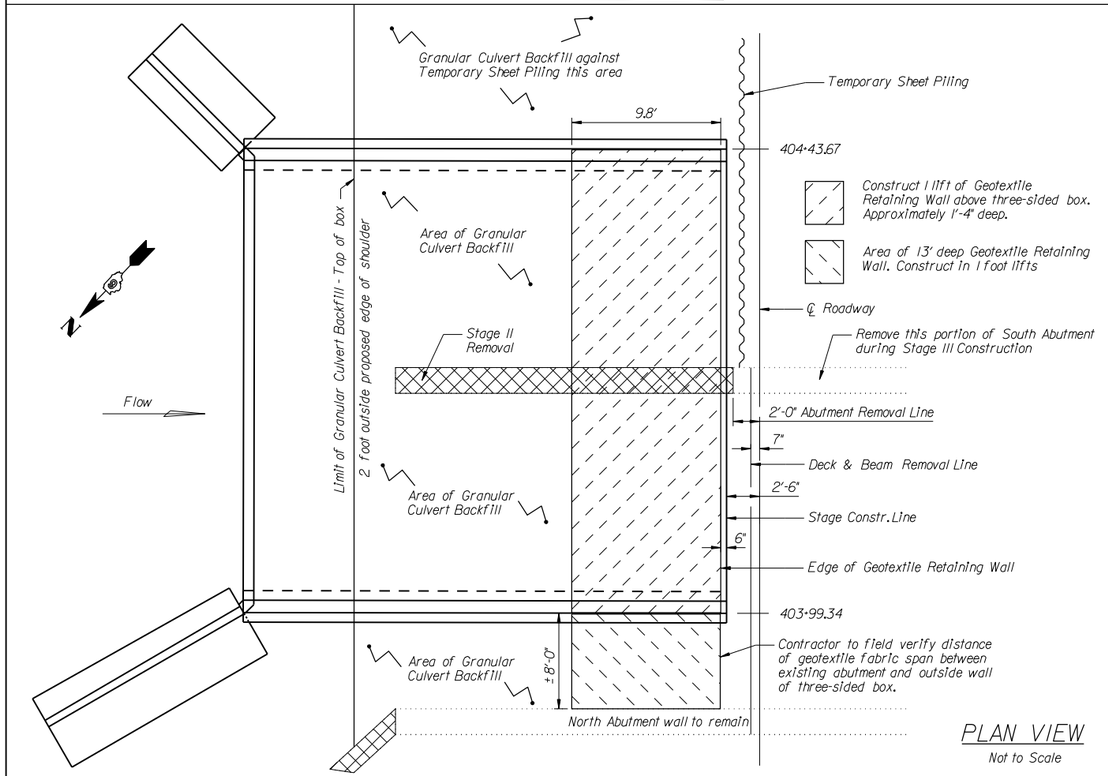
Not to Scale



Hatched area indicates Partial Removal of Existing Structure.

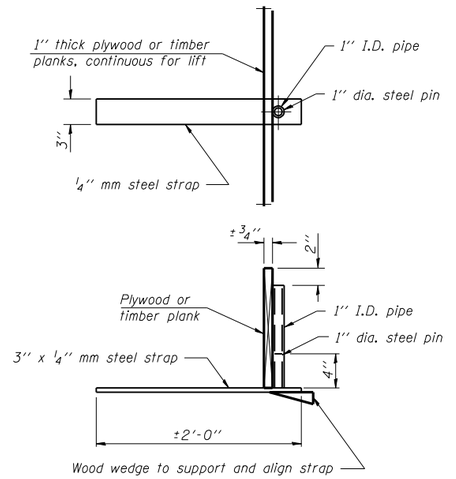
VIEW LOOKING UPSTATION

Not to Scale



PLAN VIEW

Not to Scale



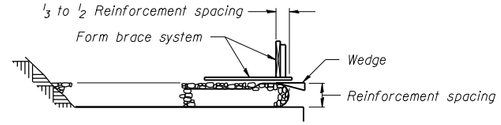
SUGGESTED GEOTEXTILE TEMPORARY FORM BRACE SYSTEM DETAIL

Not to Scale

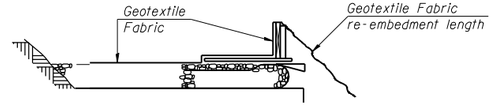
Note:
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.

NOTES:
The geotextile fabric shall have a minimum allowable tensile strength (T min) of 509 lb/ft as determined by the procedure stated in the Special Provisions. The computations supporting the determination of (T min) shall be submitted to the engineer for approval.

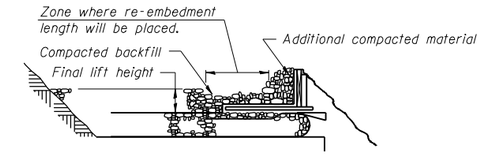
Design Width = 9.8'
Re-embedment Length = 3.0'
Reinforcement Spacing =
12" in section by abutment
16" on top of three-sided box



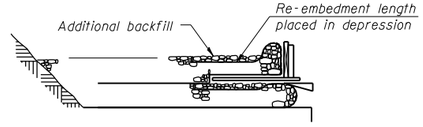
1. *Place form brace system on completed reinforcement level; back from the finished fabric face a distance of ⅓ to ½ the reinforcement spacing.*



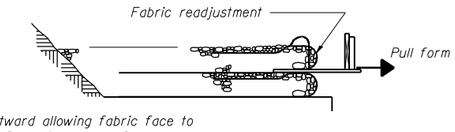
2. *Position fabric so that the required re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.*



3. *Compact backfill material in lifts to final lift height, create (±3") depression in zone where re-embedment length will be located and place additional height of compacted material against form brace.*



4. *Fold fabric re-embedment length back over form brace into zone where depression was made in backfill and place additional compacted backfill, (±3") to embed fabric and bring to final lift height.*



5. *Pull form brace outward allowing fabric face to slightly readjust to form tight round face and level with plan reinforcement spacing.*

GEOTEXTILE RETAINING WALL CONSTRUCTION PROCEDURE

Not to Scale

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GEOTEXTILE RETAINING WALL
ILLINOIS ROUTE 96 OVER
BREWSTER CREEK
FAP RTE 304 - SECT. 2(B-5,B-6)
PIKE COUNTY
STATION 404+21.51
STRUCTURE NO. 075-2508

SCALE: N/A DRAWN BY JLS
DATE SEPT 2007 CHECKED BY DSP

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