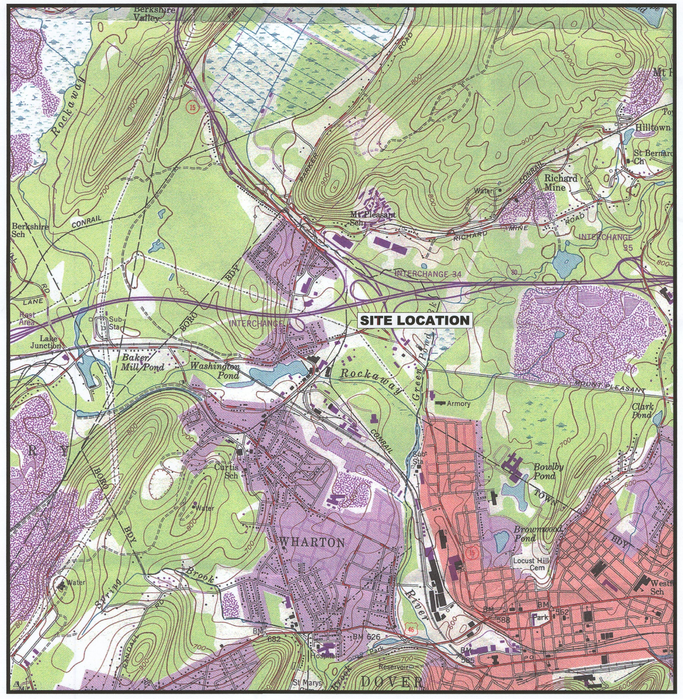
L.E. CARPENTER SITE

WHARTON, NEW JERSEY
SOIL EROSION AND SEDIMENT CONTROL PLAN

PREPARED FOR: L.E. CARPENTER AND COMPANY

PREPARED BY: RMT, INC.

DATE: SEPTEMBER 2004



NEW JERSEY

QUADRANGLE LOCATION

SITE LOCATION MAP

BASE MAP DEVELOPED FROM THE DOVER, NEW JERSEY 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP, DATED 1954, PHOTOREVISED 1981.

N

DRAWING INDEX

FIGURE NO.	SHEET TITLE
F1	TITLE SHEET / DRAWING INDEX
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F4	CONSTRUCTION STAGING AND EXCAVATION PLAN
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F6	DETAILS

THESE PLANS ARE ACCOMPANIED BY A REPORT AND NARRATIVE OF THE SAME TITLE.
THESE DOCUMENTS ARE INTERRELATED AND INTENDED TO BE USED AND REVIEWED TOGETHER.

346451

DESIGNED BY:	DRAWN BY:	CHECKED BY:	F1 - TITLE SHEET / DRAWING INDEX
D.D., N.C.	S.J.L.	D.E.O.	
APPROVED BY: DEO		REVISIONS NO. / DATE	
DANIEL E. OMAN			L.E. CARPENTER SOIL EROSION AND SEDIMENT CONTROL PLAN WHARTON NEW JERSEY
11/8/04 N.J. PROFESSIONAL ENGINEER NO. 24GE04115700			RMT, INC. 1143 HIGHLAND DRIVE, SUITE B ANN ARBOR MICHIGAN 48108
SCALE: shown	DATE: Sept. 28, 2004	DRAWING NO.: 6527.01	SHEET NO.: F1 of 6

Drawing file: 6527 SESCP F1 (Rev 1).dwg
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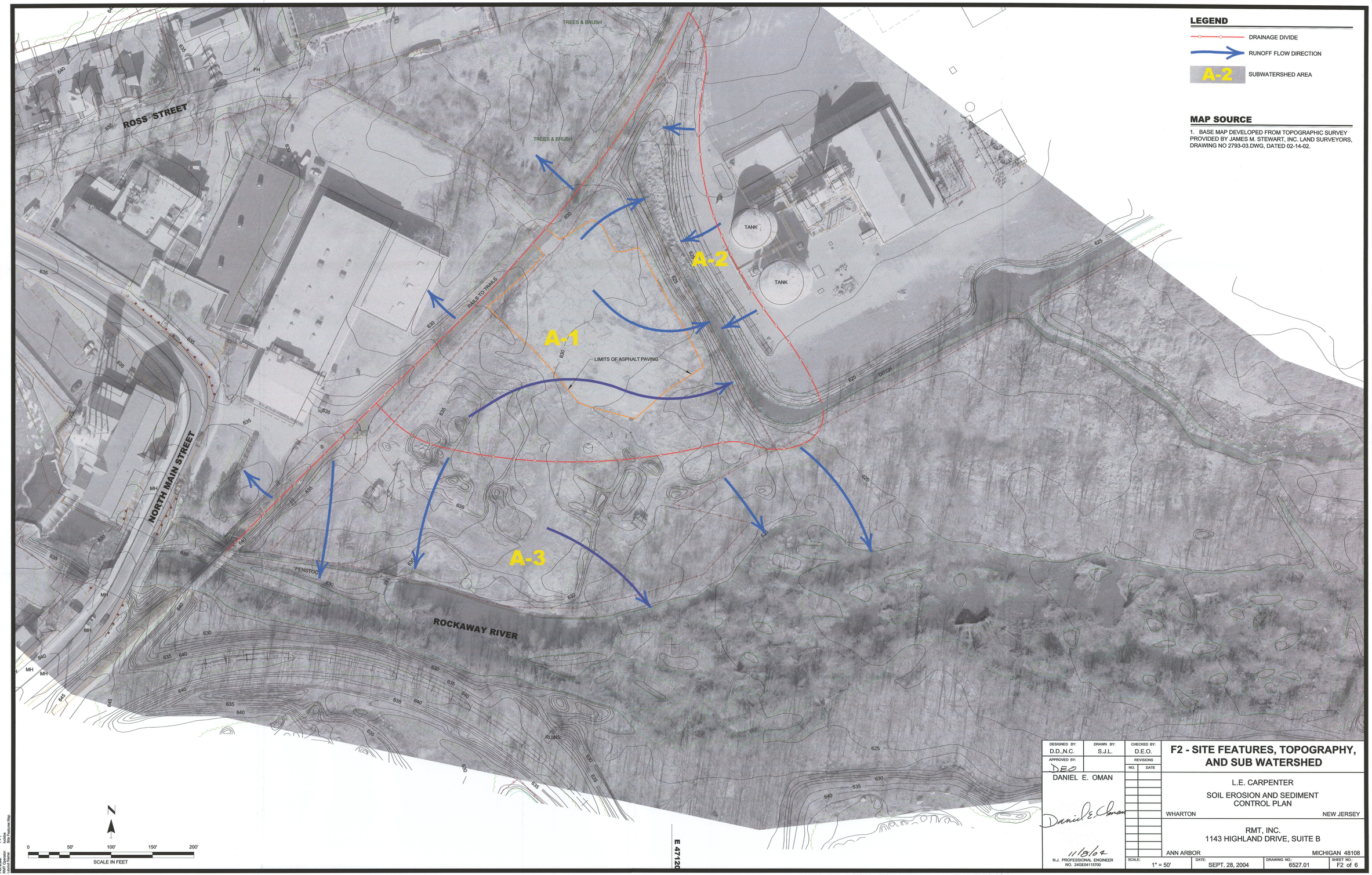


LEGEND

- DRAINAGE DIVIDE
- RUNOFF FLOW DIRECTION
- A-2 SUBWATERSHED AREA

MAP SOURCE

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02.

DESIGNED BY:	DRAWN BY:	CHECKED BY:
D.D.,N.C.	S.J.L.	D.E.O.
APPROVED BY: DEO		REVISIONS NO. DATE

DANIEL E. OMAN

Daniel E. Oman

11/8/04

N.J. PROFESSIONAL ENGINEER NO. 24GE04115700

F2 - SITE FEATURES, TOPOGRAPHY, AND SUB WATERSHED

L.E. CARPENTER

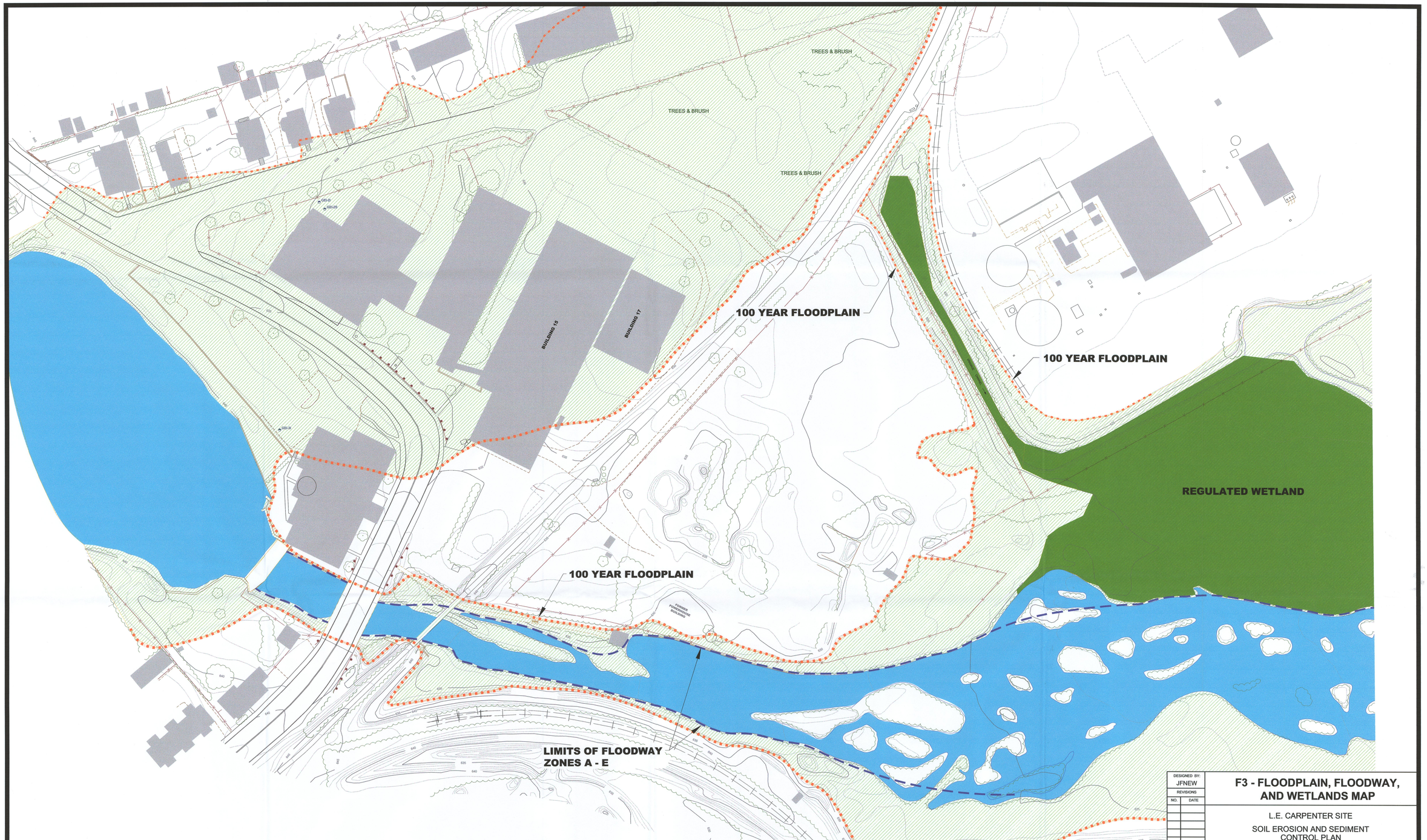
SOIL EROSION AND SEDIMENT CONTROL PLAN

WHARTON NEW JERSEY

RMT, INC.
1143 HIGHLAND DRIVE, SUITE B

ANN ARBOR MICHIGAN 48108

SCALE:	DATE:	DRAWING NO.:	SHEET NO.:
1" = 50'	SEPT. 28, 2004	6527.01	F2 of 6



DESIGNED BY: JFNEW	F3 - FLOODPLAIN, FLOODWAY, AND WETLANDS MAP
REVISIONS NO. / DATE	L.E. CARPENTER SITE SOIL EROSION AND SEDIMENT CONTROL PLAN WHARTON NEW JERSEY
	JFNew 600 S. Beacon, Grand Haven, MI 49417 (616) 847-1680/ Fax (616) 847-9970 www.jfnew.com

SCALE:	DATE:	DRAWING NO.:	SHEET NO.:
1" = 50'	SEPT. 28, 2004	6527.01	F3 of 6

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Drawing date: Wed, November 17, 2004 - 1:09pm
Plot scale: 1 = 100
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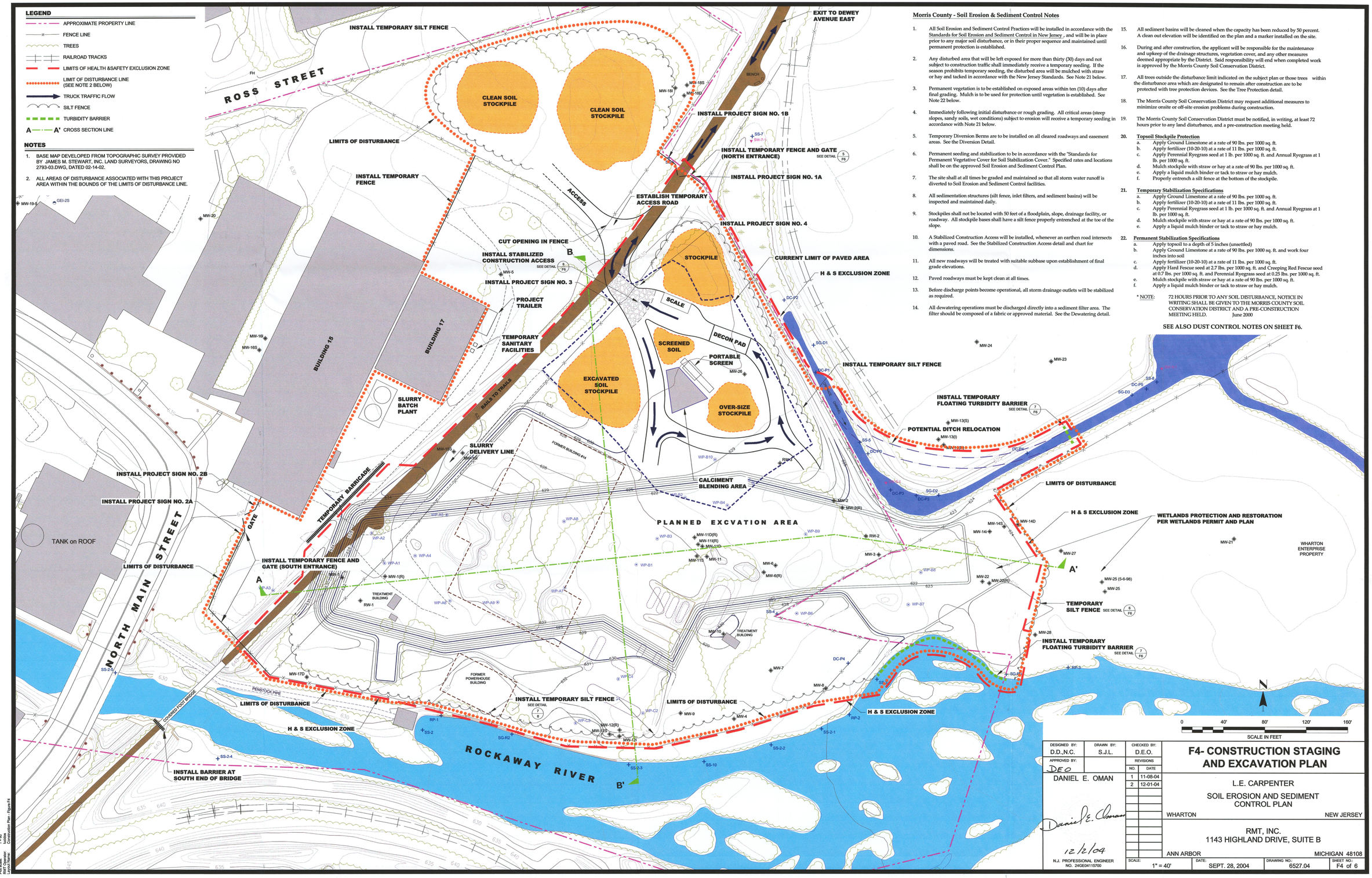
Layout Name: Wetland Map

LEGEND

- APPROXIMATE PROPERTY LINE
- FENCE LINE
- TREES
- RAILROAD TRACKS
- LIMITS OF HEALTH &SAFETY EXCLUSION ZONE
- LIMIT OF DISTURBANCE LINE (SEE NOTE 2 BELOW)
- TRUCK TRAFFIC FLOW
- SILT FENCE
- TURBIDITY BARRIER
- A — A' CROSS SECTION LINE

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02.
2. ALL AREAS OF DISTURBANCE ASSOCIATED WITH THIS PROJECT AREA WITHIN THE BOUNDS OF THE LIMITS OF DISTURBANCE LINE.



Morris County - Soil Erosion & Sediment Control Notes

1. All Soil Erosion and Sediment Control Practices will be installed in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey , and will be in place prior to any major soil disturbance, or in their proper sequence and maintained until permanent protection is established.
2. Any disturbed area that will be left exposed for more than thirty (30) days and not subject to construction traffic shall immediately receive a temporary seeding. If the season prohibits temporary seeding, the disturbed area will be mulched with straw or hay and tacked in accordance with the New Jersey Standards. See Note 21 below.
3. Permanent vegetation is to be established on exposed areas within ten (10) days after final grading. Mulch is to be used for protection until vegetation is established. See Note 22 below.
4. Immediately following initial disturbance or rough grading. All critical areas (steep slopes, sandy soils, wet conditions) subject to erosion will receive a temporary seeding in accordance with Note 21 below.
5. Temporary Diversion Berms are to be installed on all cleared roadways and easement areas. See the Diversion Detail.
6. Permanent seeding and stabilization to be in accordance with the "Standards for Permanent Vegetative Cover for Soil Stabilization Cover." Specified rates and locations shall be on the approved Soil Erosion and Sediment Control Plan.
7. The site shall at all times be graded and maintained so that all storm water runoff is diverted to Soil Erosion and Sediment Control facilities.
8. All sedimentation structures (silt fence, inlet filters, and sediment basins) will be inspected and maintained daily.
9. Stockpiles shall not be located with 50 feet of a floodplain, slope, drainage facility, or roadway. All stockpile bases shall have a silt fence properly entrenched at the toe of the slope.
10. A Stabilized Construction Access will be installed, whenever an earthen road intersects with a paved road. See the Stabilized Construction Access detail and chart for dimensions.
11. All new roadways will be treated with suitable subbase upon establishment of final grade elevations.
12. Paved roadways must be kept clean at all times.
13. Before discharge points become operational, all storm drainage outlets will be stabilized as required.
14. All dewatering operations must be discharged directly into a sediment filter area. The filter should be composed of a fabric or approved material. See the Dewatering detail.
15. All sediment basins will be cleaned when the capacity has been reduced by 50 percent. A clean out elevation will be identified on the plan and a marker installed on the site.
16. During and after construction, the applicant will be responsible for the maintenance and upkeep of the drainage structures, vegetation cover, and any other measures deemed appropriate by the District. Said responsibility will end when completed work is approved by the Morris County Soil Conservation District.
17. All trees outside the disturbance limit indicated on the subject plan or those trees within the disturbance area which are designated to remain after construction are to be protected with tree protection devices. See the Tree Protection detail.
18. The Morris County Soil Conservation District may request additional measures to minimize onsite or off-site erosion problems during construction.
19. The Morris County Soil Conservation District must be notified, in writing, at least 72 hours prior to any land disturbance, and a pre-construction meeting held.
20. **Topsoil Stockpile Protection**
    a. Apply Ground Limestone at a rate of 90 lbs. per 1000 sq. ft.
    b. Apply fertilizer (10-20-10) at a rate of 11 lbs. per 1000 sq. ft.
    c. Apply Perennial Ryegrass seed at 1 lb. per 1000 sq. ft. and Annual Ryegrass at 1 lb. per 1000 sq. ft.
    d. Mulch stockpile with straw or hay at a rate of 90 lbs. per 1000 sq. ft.
    e. Apply a liquid mulch binder or tack to straw or hay mulch.
    f. Properly entrench a silt fence at the bottom of the stockpile.
21. **Temporary Stabilization Specifications**
    a. Apply Ground Limestone at a rate of 90 lbs. per 1000 sq. ft.
    b. Apply fertilizer (10-20-10) at a rate of 11 lbs. per 1000 sq. ft.
    c. Apply Perennial Ryegrass seed at 1 lb. per 1000 sq. ft. and Annual Ryegrass at 1 lb. per 1000 sq. ft.
    d. Mulch stockpile with straw or hay at a rate of 90 lbs. per 1000 sq. ft.
    e. Apply a liquid mulch binder or tack to straw or hay mulch.
22. **Permanent Stabilization Specifications**
    a. Apply topsoil to a depth of 5 inches (unsettled)
    b. Apply Ground Limestone at a rate of 90 lbs. per 1000 sq. ft. and work four inches into soil
    c. Apply fertilizer (10-20-10) at a rate of 11 lbs. per 1000 sq. ft.
    d. Apply Hard Fescue seed at 2.7 lbs. per 1000 sq. ft. and Creeping Red Fescue seed at 0.7 lbs. per 1000 sq. ft. and Perennial Ryegrass seed at 0.25 lbs. per 1000 sq. ft.
    e. Mulch stockpile with straw or hay at a rate of 90 lbs. per 1000 sq. ft.
    f. Apply a liquid mulch binder or tack to straw or hay mulch.

* NOTE: 72 HOURS PRIOR TO ANY SOIL DISTURBANCE, NOTICE IN WRITING SHALL BE GIVEN TO THE MORRIS COUNTY SOIL CONSERVATION DISTRICT AND A PRE-CONSTRUCTION MEETING HELD. June 2000

SEE ALSO DUST CONTROL NOTES ON SHEET F6.

DESIGNED BY: D.D.,N.C.	DRAWN BY: S.J.L.	CHECKED BY: D.E.O.	F4- CONSTRUCTION STAGING AND EXCAVATION PLAN
APPROVED BY: DEO		REVISIONS NO. / DATE: 1 11-08-04; 2 12-01-04	
DANIEL E. OMAN			L.E. CARPENTER SOIL EROSION AND SEDIMENT CONTROL PLAN WHARTON NEW JERSEY
12/2/04 N.J. PROFESSIONAL ENGINEER NO. 24GE04115700			RMT, INC. 1143 HIGHLAND DRIVE, SUITE B ANN ARBOR MICHIGAN 48108
SCALE: 1" = 40'	DATE: SEPT. 28, 2004	DRAWING NO: 6527.04	SHEET NO: F4 of 6

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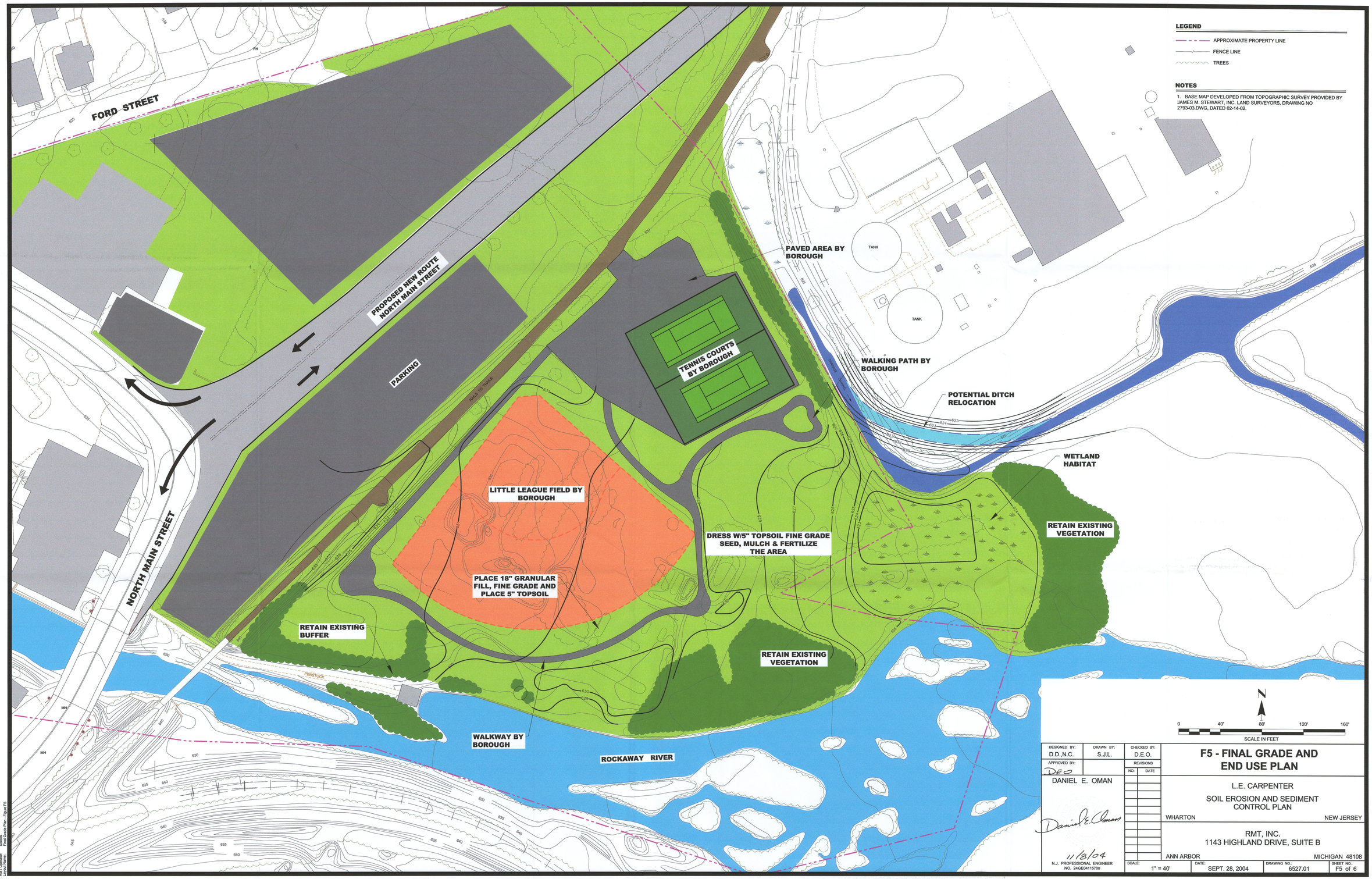

DESIGNED BY: D.D.,N.C.	DRAWN BY: S.J.L.	CHECKED BY: D.E.O.	F5 - FINAL GRADE AND END USE PLAN
APPROVED BY: DEO		REVISIONS NO. DATE	
DANIEL E. OMAN			L.E. CARPENTER SOIL EROSION AND SEDIMENT CONTROL PLAN WHARTON NEW JERSEY
11/18/04 N.J. PROFESSIONAL ENGINEER NO. 24GE041157 00			RMT, INC. 1143 HIGHLAND DRIVE, SUITE B ANN ARBOR MICHIGAN 48108
SCALE: 1" = 40'	DATE: SEPT. 28, 2004	DRAWING NO.: 6527.01	SHEET NO.: F5 of 6

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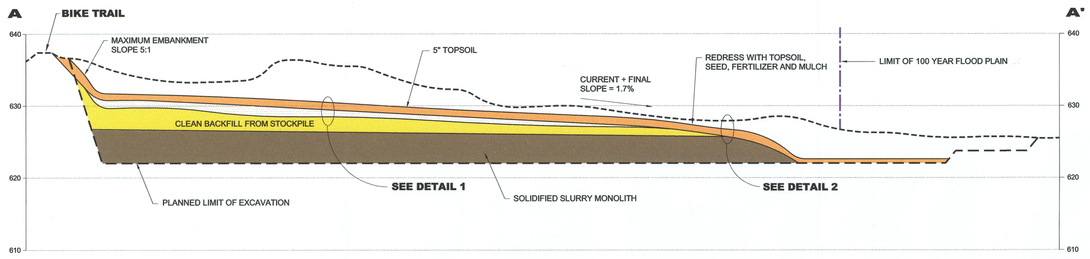
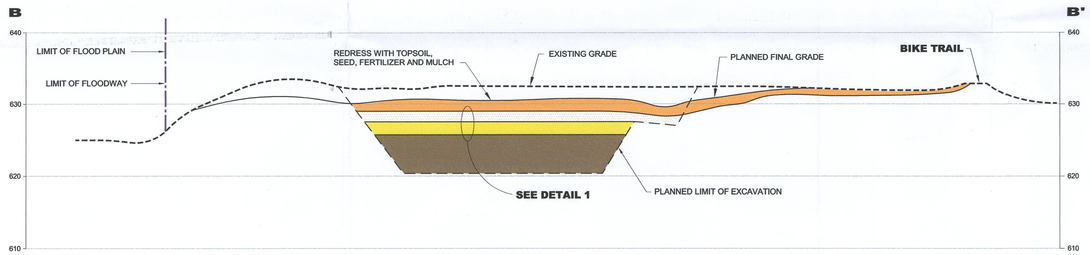


1/F6 **SITE PROFILE A - A' (TYPICAL)**

SCALE: VER: 1" = 10'
HOR: 1" = 100'



2/F6 **SITE PROFILE B - B' (TYPICAL)**

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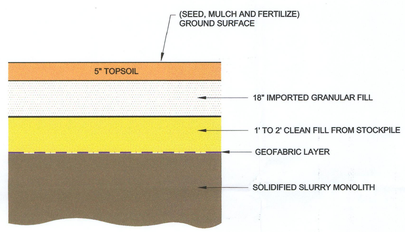
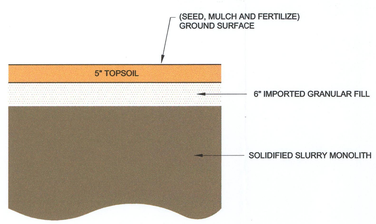
HOR: 1" = 100'



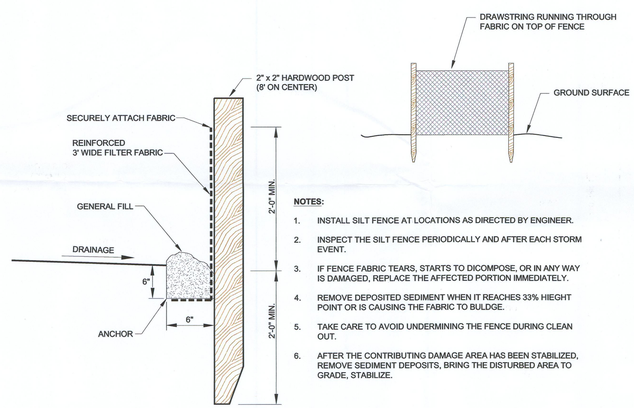
3/F6 **DETAIL 1**
AREA FOR BALLFIELD AND OUTFIELD

NOT TO SCALE



4/F6 **DETAIL 2**
AREAS OUTSIDE OF BALLFIELD AND PAVED AREAS

NOT TO SCALE



NOTES:

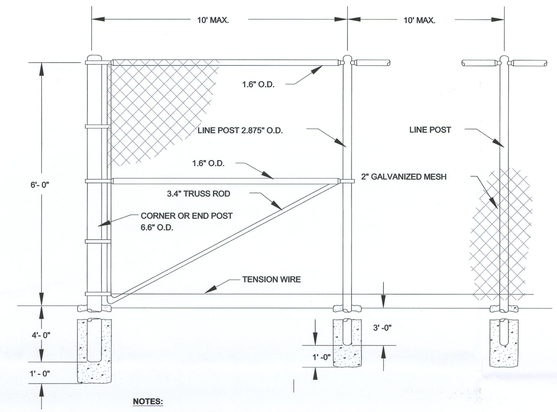
1. INSTALL SILT FENCE AT LOCATIONS AS DIRECTED BY ENGINEER.
2. INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
3. IF FENCE FABRIC TEARS, STARTS TO DICOMPOSE, OR IN ANY WAY IS DAMAGED, REPLACE THE AFFECTED PORTION IMMEDIATELY.
4. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES 33% HIEGHT POINT OR IS CAUSING THE FABRIC TO BULDGE.
5. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
6. AFTER THE CONTRIBUTING DAMAGE AREA HAS BEEN STABILIZED, REMOVE SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, STABILIZE.

6/F6 **SEDIMENT CONTROL (SILT) FENCE**

NOT TO SCALE

REQUIREMENTS FOR SILT FENCE:

1. FENCE POSTS SHALL BE PLACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE THE GROUND. POSTS SHALL BE CONSTRUCTED OF HARD WOOD WITH A MINIMUM DIAMETER THICKNESS OF 1½ INCHES
2. A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED.
3. A GEOTEXTILE FABRIC RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE THE GROUND. THE FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND A HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS, ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.



NOTES:

CEMENT GATE POSTS, CORNER POSTS, AND EVERY OTHER FOURTH POST ON STRAIGHT-AWAYS.

5/F6 **CHAIN LINK FENCE**

NOT TO SCALE

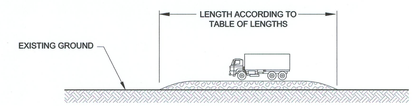
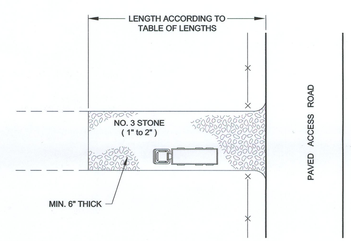


TABLE OF LENGTHS

PERCENT SLOPE OF ROADWAY	LENTH OF STONE REQUIRED	
	COARSE GRAINED SOILS	FINE GRAINED SOILS
0 to 2 %	50 ft.	100 ft.
2 to 5 %	100 ft.	200 ft.
> 5 %	Entire surface stabilized with FABC base course	



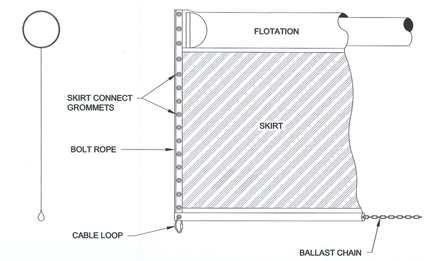
NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF SEDIMENT ON TO PUBLIC RIGHT-OF-WAY, OR DEWEY AVENUE. THIS MAY REQUIRE TOP DRESSING. REPAIR AND / OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED AT DECON PAD.

8/F6 **STABILIZED CONSTRUCTION ACCESS**

NOT TO SCALE

SEE SPECIFICATIONS FOR DETAILS



7/F6 **FLOATING TURBITITY BARRIER**

NOT TO SCALE

Dust Control Notes

(Paged references are found in Standards for Soil Erosion and Sediment Control in New Jersey, July 1999 and in Appendix B of this plan narrative).

The following methods should be considered for controlling dust:

Mulches - See Standard for Stabilization with Mulches Only (pg. 5-1)

Vegetative Cover - See Standard for Temporary Vegetative Cover (pg. 7-1), Permanent Vegetative Cover for Soil Stabilization (pg. 4-1), and Permanent Stabilization with Sod (pg. 6-1)

Spray-On Adhesives - On mineral soils (not effective on muck soils). Keep traffic off these areas.

TABLE 16-1
Dust Control Materials

MATERIAL	WATER DILUTION		TYPE OF NOZZLE	APPLY GALLONS / ACRE
Anionic asphalt emulsion	7:1		Coarse Spray	1,200
Latex emulsion	12.5:1		Fine Spray	235
Resin in water	4:1		Fine Spray	300
Polyacrylamide (PAM) - spray on dry Polyacrylamide (PAM) - spray on dry	Apply according to manufacturer's instruction May also be sued as an additive to sediment basins to flocculate and precipitate suspended colloids See Sediment Basin standard (pg. 26-1)			
Acidulated Soy Bean Soap Stick	None		Coarse Spary	1,200

Tillage - To roughen surface and bring clods to the surface. This is a temporary emergency measure which should be used before soil blowing starts. Begin plowing on windward side of the site. Chisel-type plows spaced about 12 inches apart, and spring-toothed harrows are examples of equipment which may produce the desired effect.

Sprinkling - Site is sprinkled until the surface is wet.

Barriers - Solid board fences, snow fences, burlap fences, crate walls, bales of hay, and similar material can be used to control air currents and soil blowing.

Calcium Chloride - Shall be in the form of loose, dry granulates of flakes fine enough to feed through commonly used spreaders at a rate that will keep the surface moist but not cause pollution or plant damage. If used on steeper slopes, then use other practices to prevent washing into streams or accumulation around plants.

Stone - Cover surface with crushed stone or coarse gravel.

DESIGNED BY:	DRAWN BY:	CHECKED BY:
D.D.,N.C.	S.J.L.	D.E.O.
APPROVED BY: DEO		REVISIONS

NO.	DATE
1	11-08-04

DANIEL E. OMAN

Daniel E Oman

11/8/04

N.J. PROFESSIONAL ENGINEER NO. 24GE04115700

F6 - DETAILS

L.E. CARPENTER

SOIL EROSION AND SEDIMENT CONTROL PLAN

WHARTON NEW JERSEY

RMT, INC.
1143 HIGHLAND DRIVE, SUITE B

ANN ARBOR MICHIGAN 48108

SCALE:	DATE:	DRAWING NO.:	SHEET NO.:
SHOWN	SEPT. 28, 2004	6527.01	F6 of 6

Drawing file: 6527.BSCP F6 (Rev 1).dwg
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