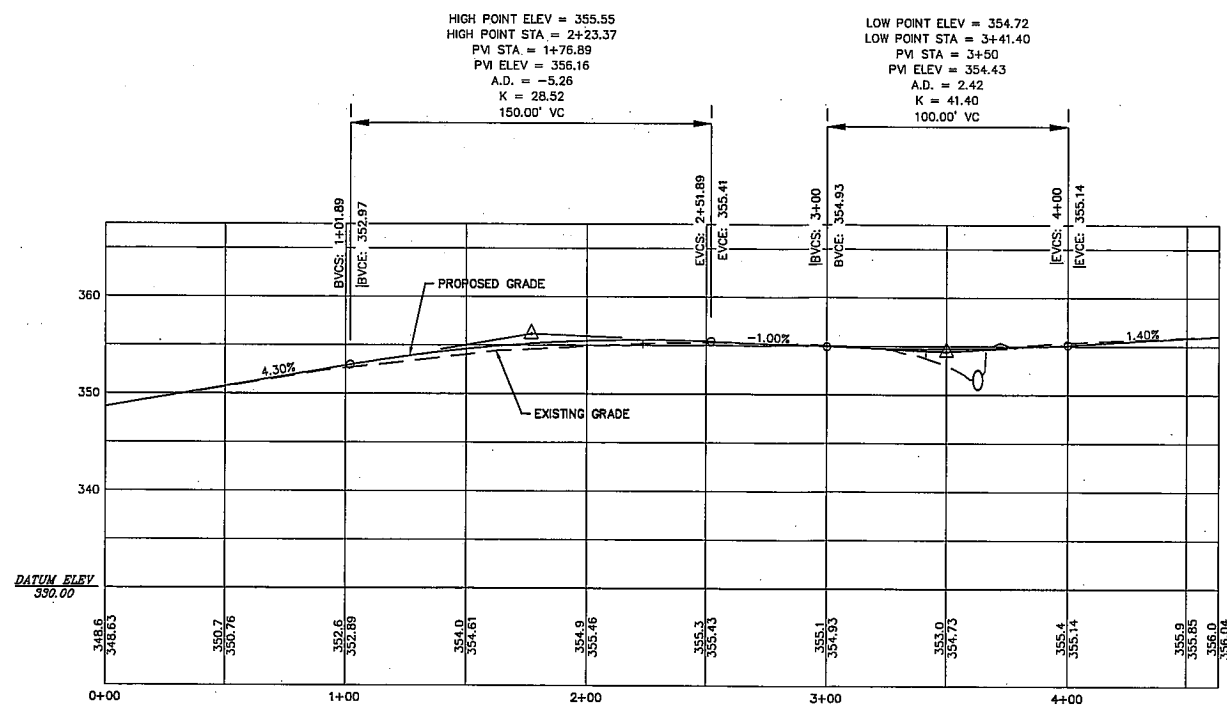
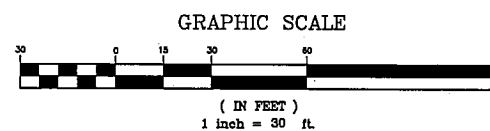


LEGEND	
	UTILITY POLE & GUY WIRE SIGN
	GRANITE BOUND FOUND
	DRILL HOLE FOUND
	IRON PIPE/ROD FOUND
	FILE OF STONES
	5/8" RE-BAR W/ ID CAP TO BE SET
	4"x4" GRANITE BOUND TO BE SET
	PROPOSED CATCH BASIN
	PROPOSED TRANSFORMER
	PROPOSED HEADWALL
	PROPOSED SPOT GRADE
	PROPOSED FLARED END SECTION
	TEST PIT LOCATION
	CONIFEROUS TREE
	DECIDUOUS TREE
	CONCRETE
	RIP RAP
	P-300 TURF MATTING
	WETLAND IMPACT AREA
	4K LEACH FIELD
	EXISTING BUILDING
	PROPOSED BUILDING
	TEST PIT
	WELL
	TYPICAL
	RETAINING CONCRETE
	TELEVISION BOX
	TELEPHONE BOX
	TRANSFORMER
	PROPERTY LINE
	EXISTING OVERHEAD WIRES
	DRAIN LINE
	PROPOSED DRAIN LINE
	EXISTING UNDERGROUND UTILITY LINE
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED SILTSOXX
	TREE LINE
	BUILDING SETBACK LINE
	EXISTING CONTOUR LINE
	PROPOSED CONTOUR LINE
	EDGE OF JURISDICTIONAL WETLAND
	PROPOSED GRADING AND DRAINAGE EASEMENT



SAINT MATTHEWS DRIVE ROADWAY PLAN & PROFILE
SCALE: H: 1"=40' V: 1"=10'



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ROADWAY PLAN & PROFILE
SAINT MATTHEWS DRIVE
prepared for
GERRIOR LANE TRUST
THE HOMESTEAD SUBDIVISION PHASE II
GERRIOR DRIVE BARRINGTON, NH

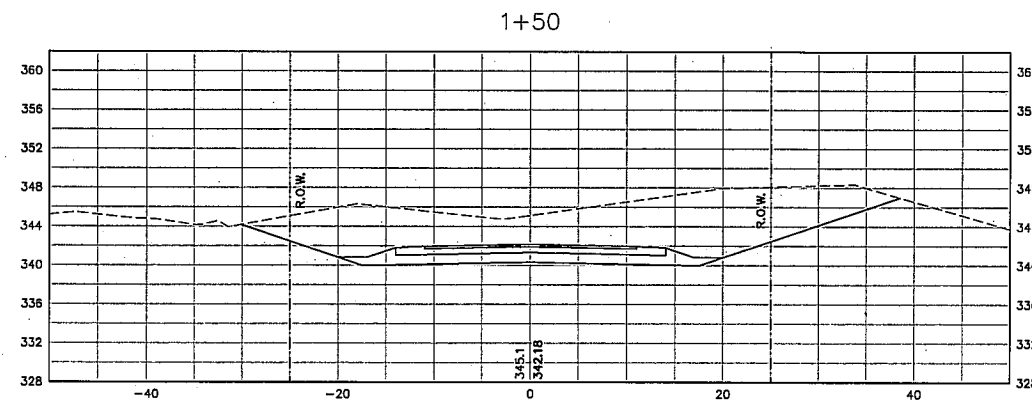
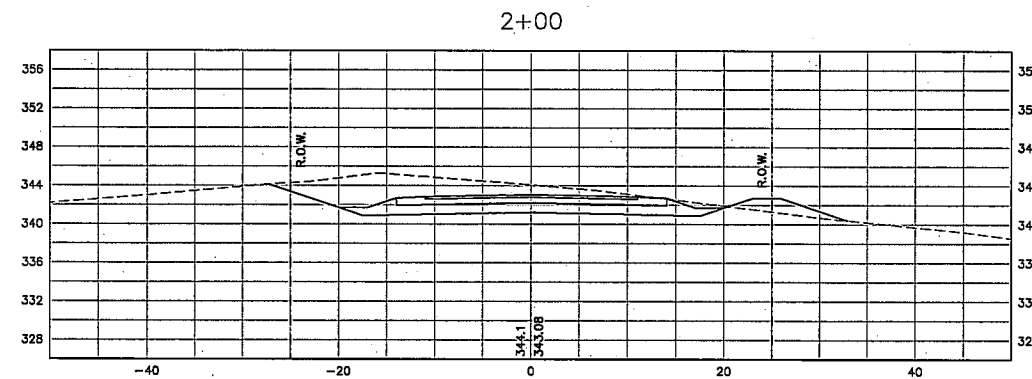
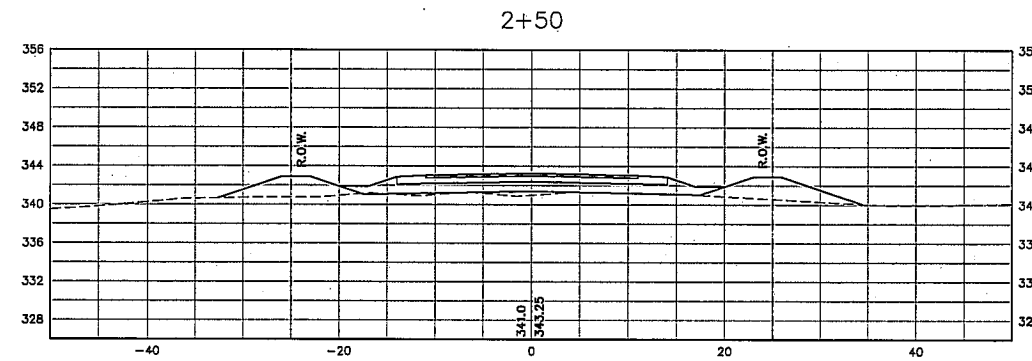
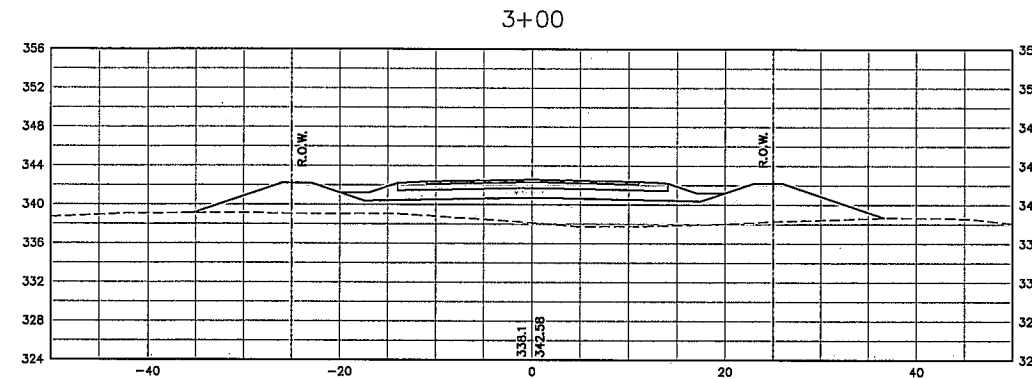
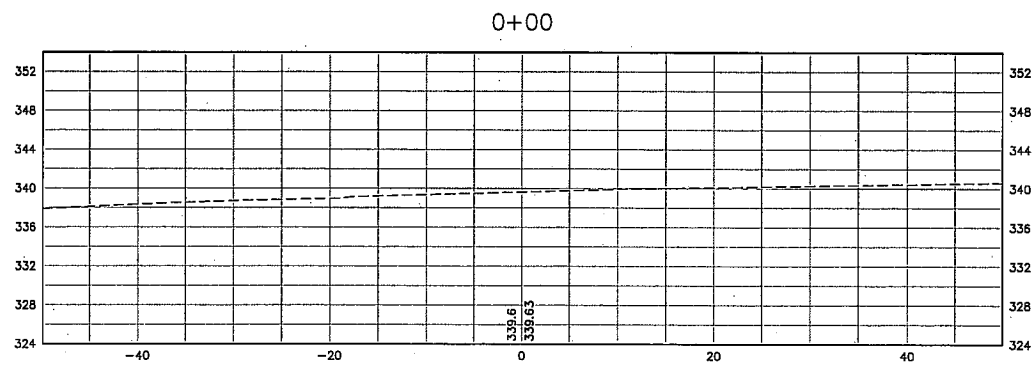
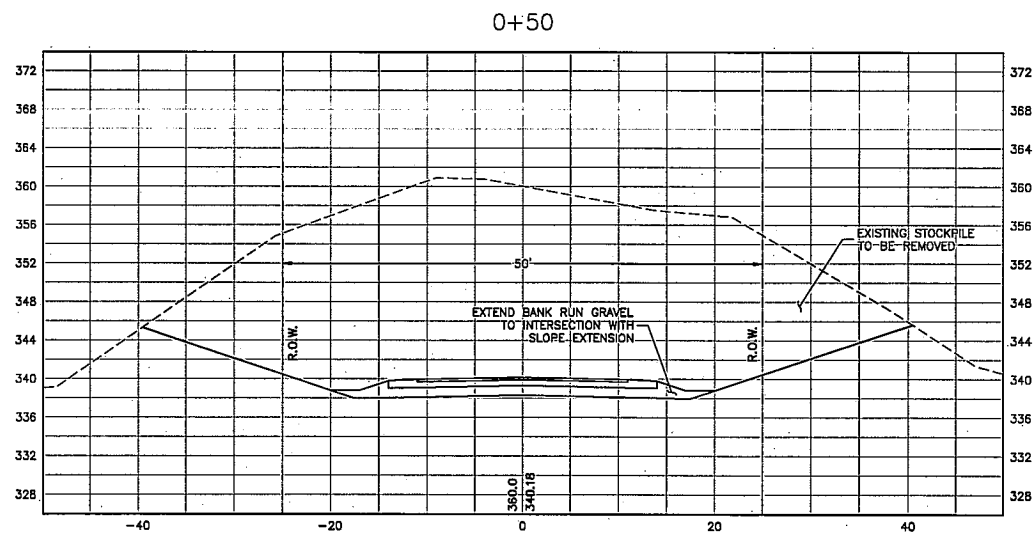
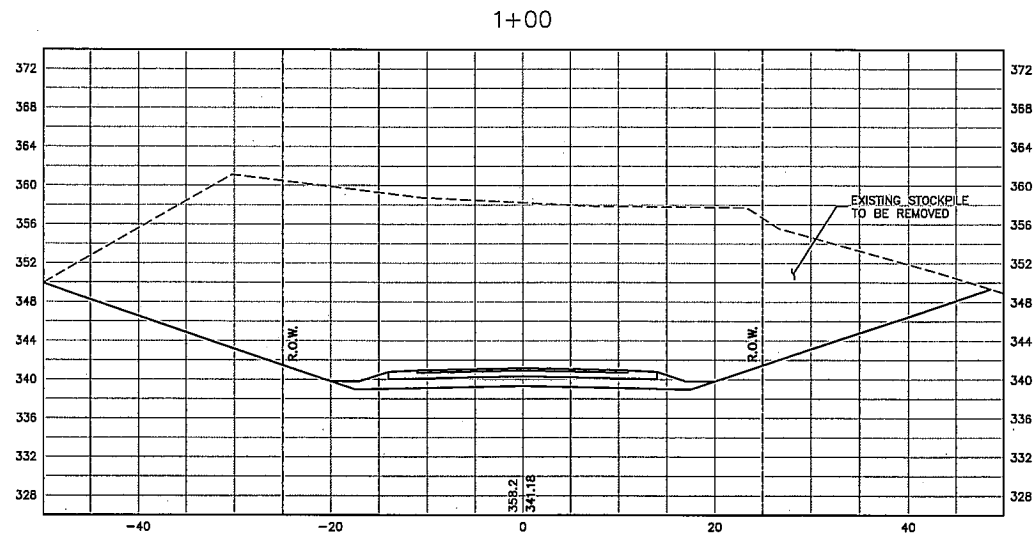
MJS ENGINEERING, PC
5 RAILROAD ST., P.O. Box 359
NEWHART, NH 03857
PHONE: (603) 659-4979, FAX: (603) 659-4627
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JOB: 11-060

C5

NO.	REVISIONS	DATE	INT.
1.	REVISED PER TOWN COMMENTS	07/01/13	MJS
2.	INITIAL SUBMISSION TO BARRINGTON PLANNING BOARD	05/15/13	MJS

DATE:	5/15/13
SCALE:	1"=30'
DESIGNED BY:	MS/MJS
DRAWN BY:	MS
APPROVED BY:	MJS
DWG FILE:	



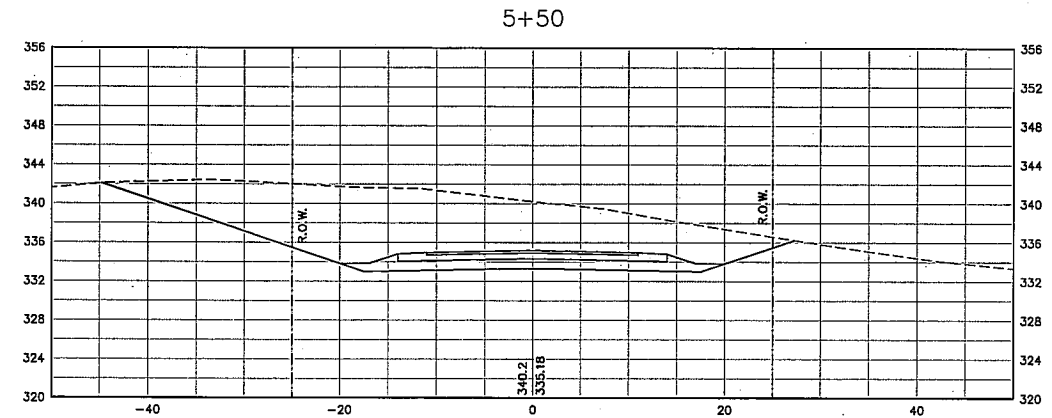
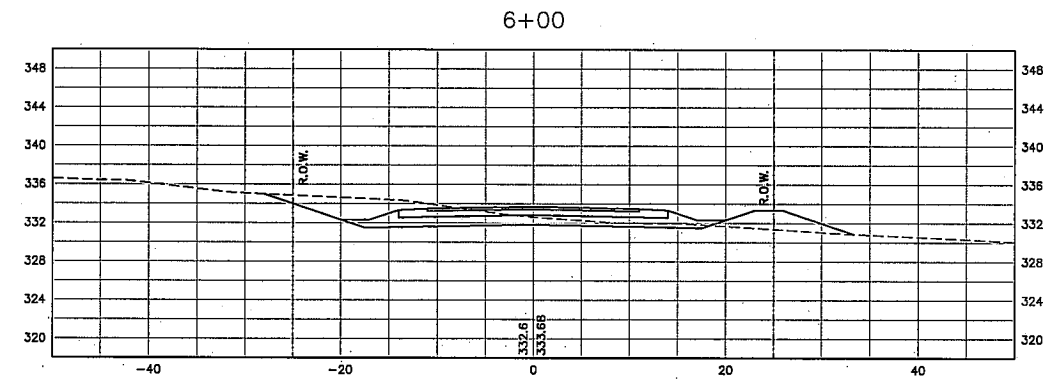
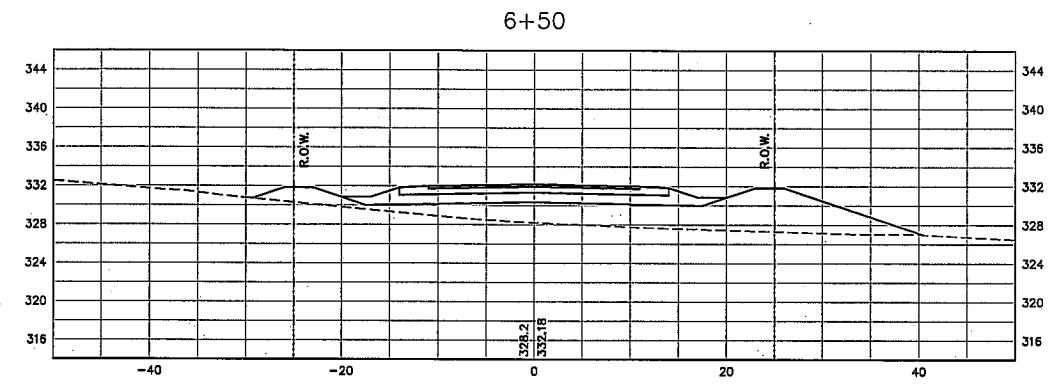
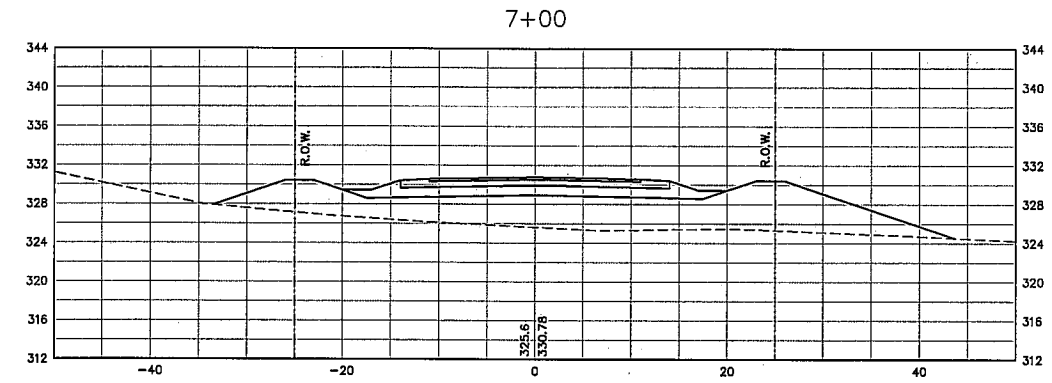
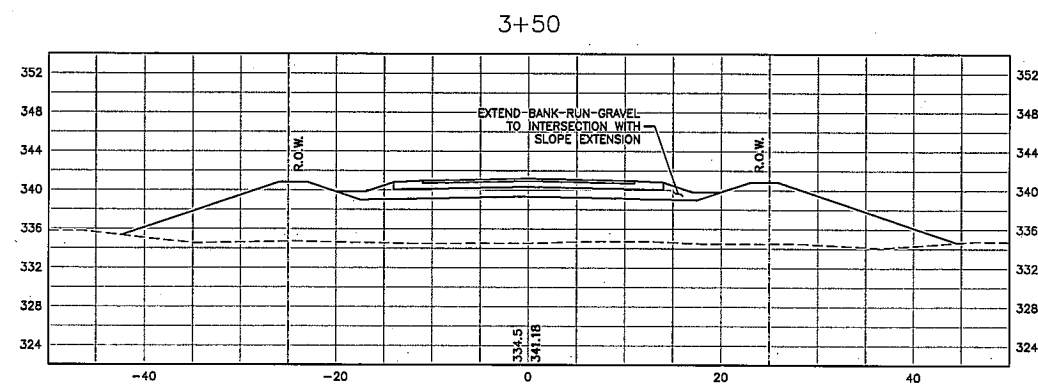
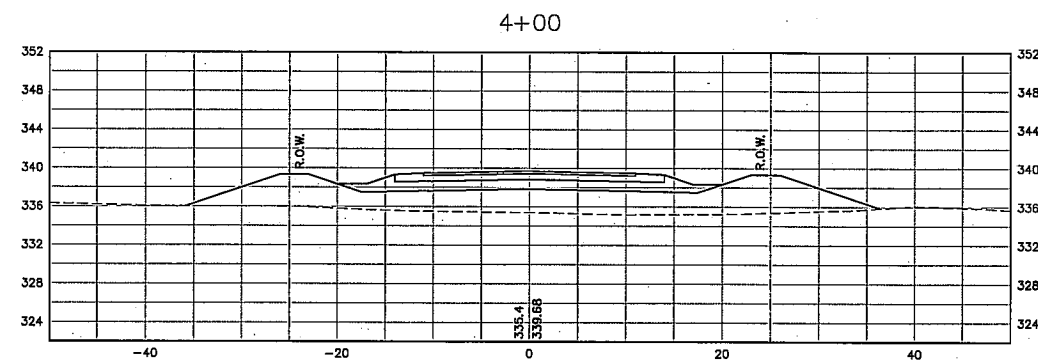
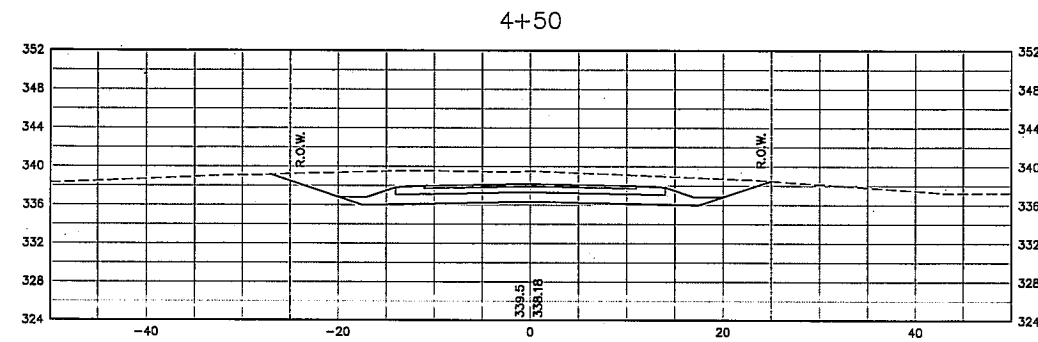
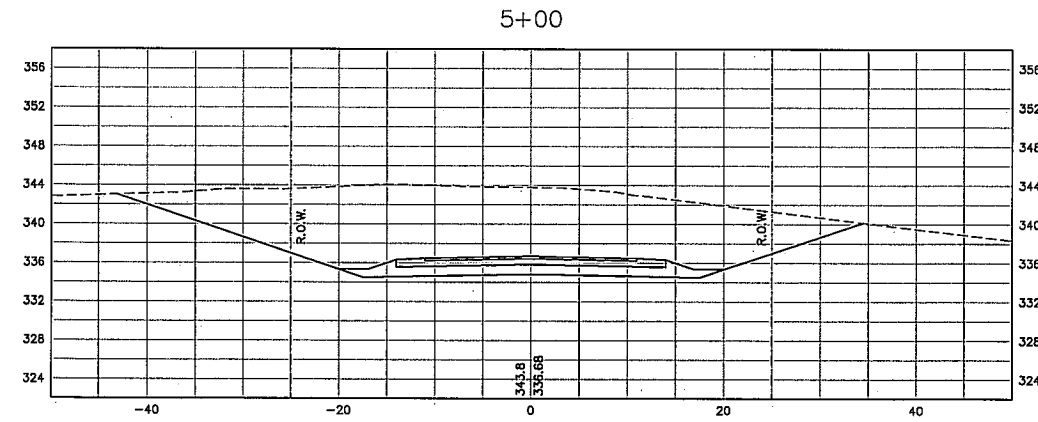
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LEGEND:
 340.18 PROPOSED ELEVATION
 360.0 EXISTING ELEVATION
 — PROPOSED GRADE
 - - - EXISTING GRADE
 R.O.W. RIGHT OF WAY
 NOTE: REFER TO HERITAGE LANE CROSS SECTION FOR ADDITIONAL INFORMATION

DATE: 5/15/13		SCALE: 1"=10'		DESIGNED BY: MS/MJS		DRAWN BY: MS		APPROVED BY: MJS		DWG FILE:	
HERITAGE LANE CROSS SECTIONS		prepared for		GERRIOR LANE TRUST		THE HOMESTEAD SUBDIVISION PHASE II		GERRIOR DRIVE BARRINGTON, NH		NO.	
MJS ENGINEERING, PC		5 RAILROAD ST., P.O. BOX 359		NEWHARSET, NH 03857		PHONE (603) 659-4079, FAX (603) 659-4627		E-MAIL: PADMINI@MJS-ENGINEERING.COM		CIVIL ENVIRONMENTAL CONSULTING ENGINEERING	
JOB: 11-060		XS1		DATE		INT.		REVISED PER TOWN COMMENTS-NO REVISIONS THIS SHEET		DATE	
1.		07/01/13		MJS		MJS		MJS		DATE	
D.		5/15/13		MJS		MJS		MJS		DATE	
NO.		NO.		NO.		NO.		NO.		NO.	



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340.18 PROPOSED ELEVATION
360.0 EXISTING ELEVATION
—— PROPOSED GRADE
----- EXISTING GRADE

R.O.W. RIGHT OF WAY

NOTE: REFER TO HERITAGE LANE CROSS SECTION FOR ADDITIONAL INFORMATION



JOB: 11-060

XS2

SEAL

DATE: 5/15/13
SCALE: 1"=10'

DESIGNED BY: MS/MJS
DRAWN BY: MS

APPROVED BY: MJS
DWG FILE:

HERITAGE LANE CROSS SECTIONS prepared for
GERRIOR LANE TRUST
THE HOMESTEAD SUBDIVISION PHASE II
GERRIOR DRIVE BARRINGTON, NH

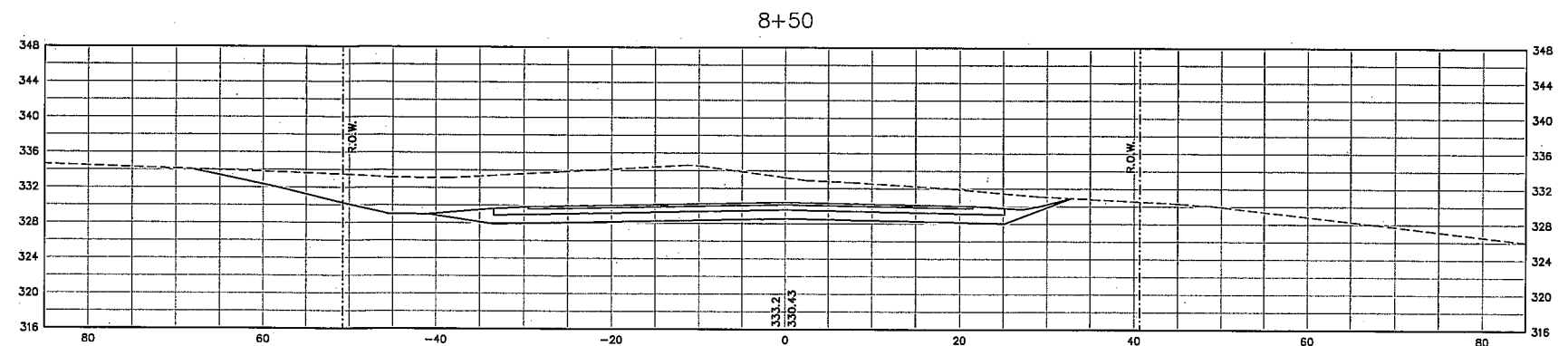
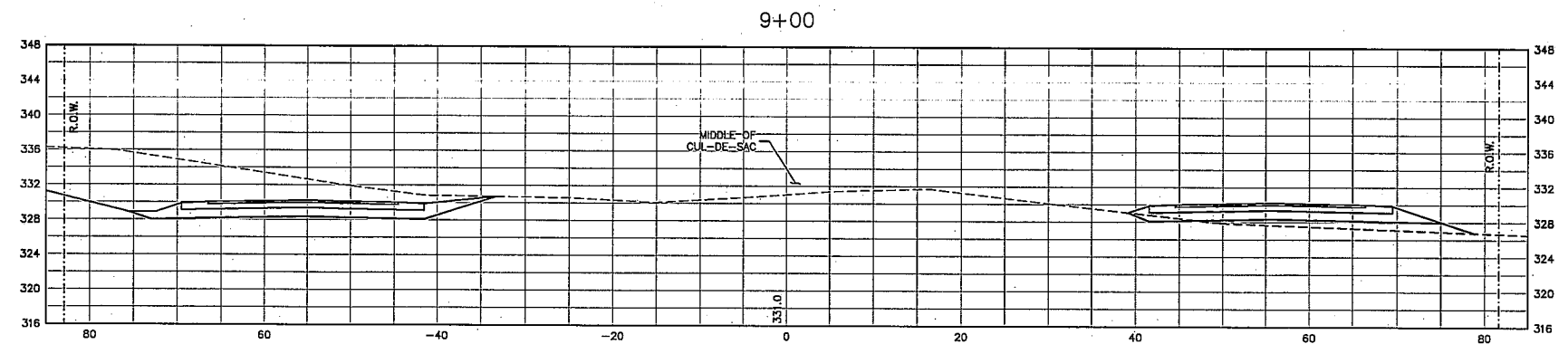
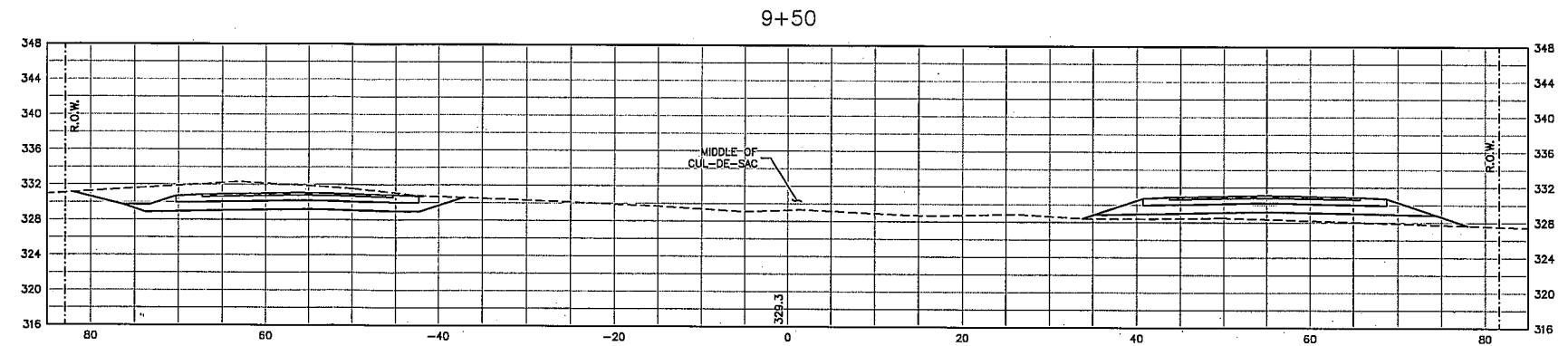
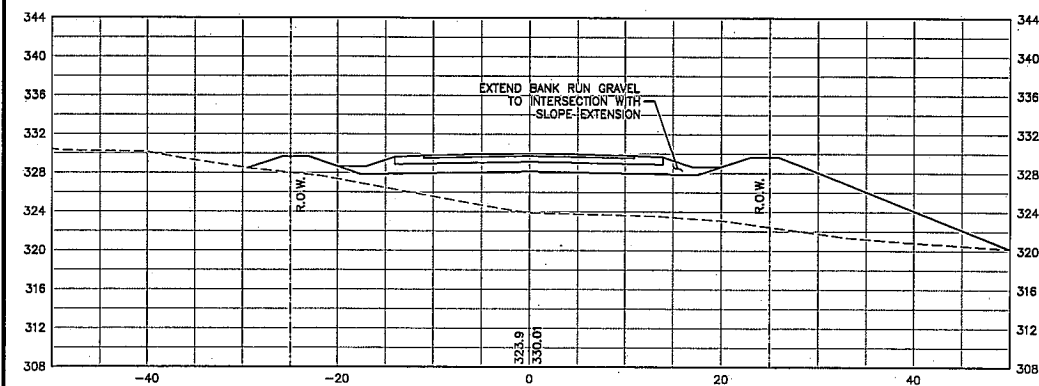
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2. INITIAL SUBMISSION TO BARRINGTON PLANNING BOARD

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LEGEND:

340.18	PROPOSED ELEVATION	_____ R.O.W. _____	RIGHT OF WAY
360.0	EXISTING ELEVATION		
_____	PROPOSED GRADE		
-----	EXISTING GRADE		

NOTE: REFER TO HERITAGE
LANE CROSS SECTION FOR
ADDITIONAL INFORMATION

DATE:	5/15/13
SCALE:	1"=10'
DESIGNED BY:	MS/MJS
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APPROVED BY:	MJS
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HERITAGE LANE
CROSS SECTIONS
prepared for
GERRIOR LANE TRUST
THE HOMESTEAD SUBDIVISION PHASE II
GERRIOR DRIVE BARRINGTON, NH

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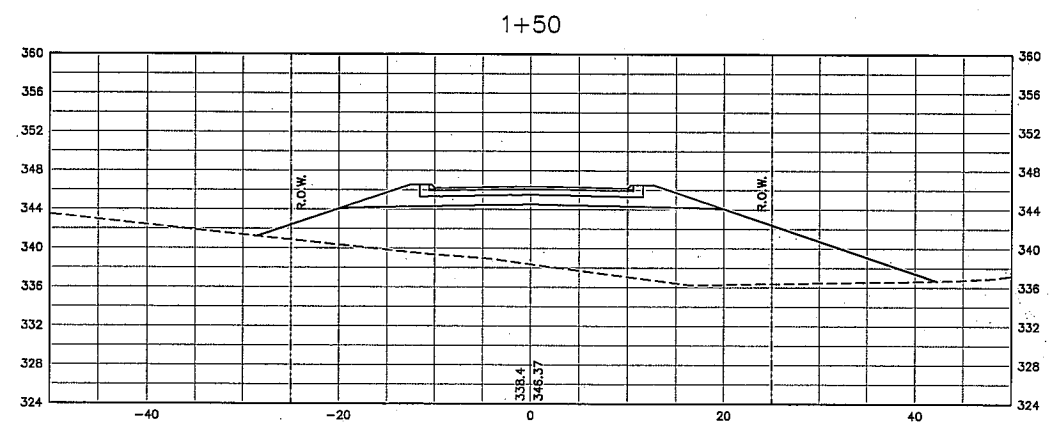
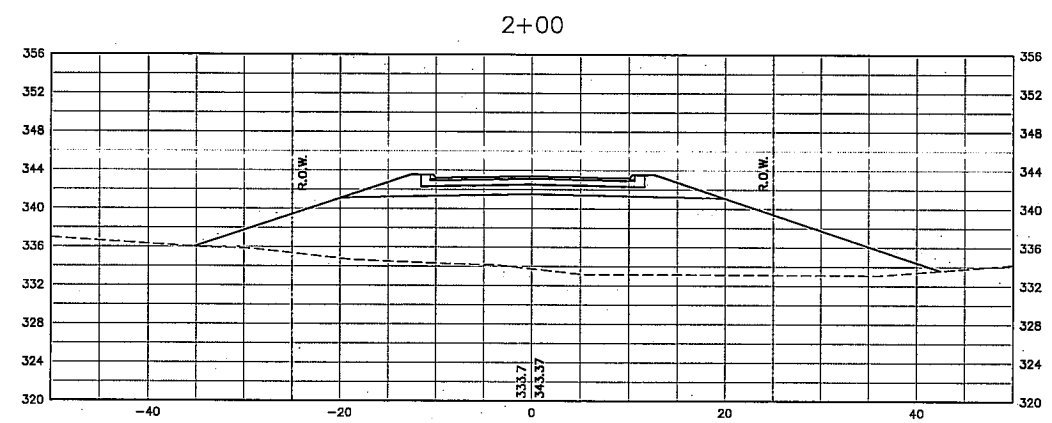
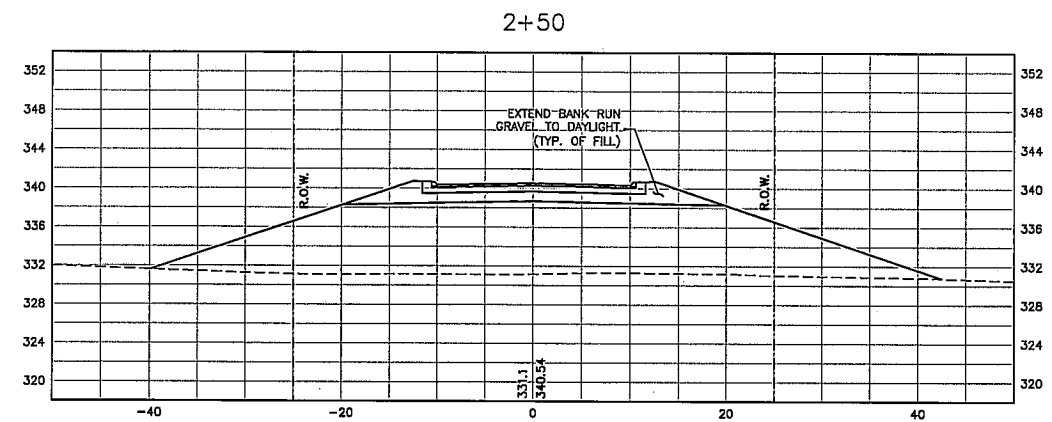
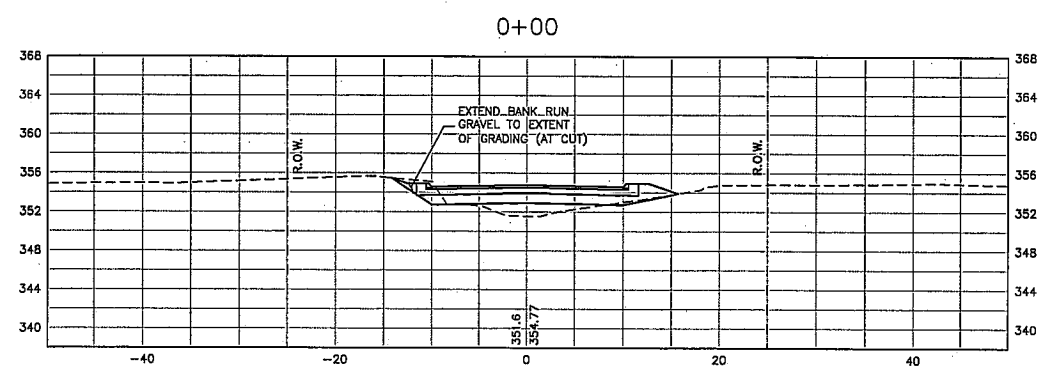
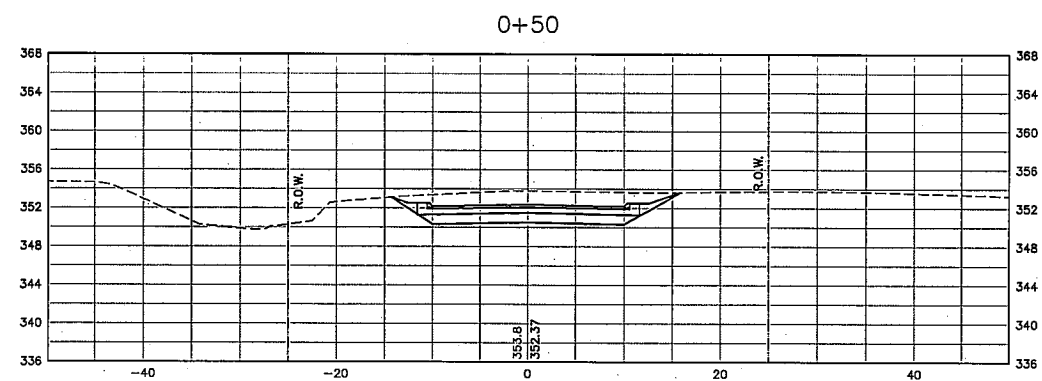
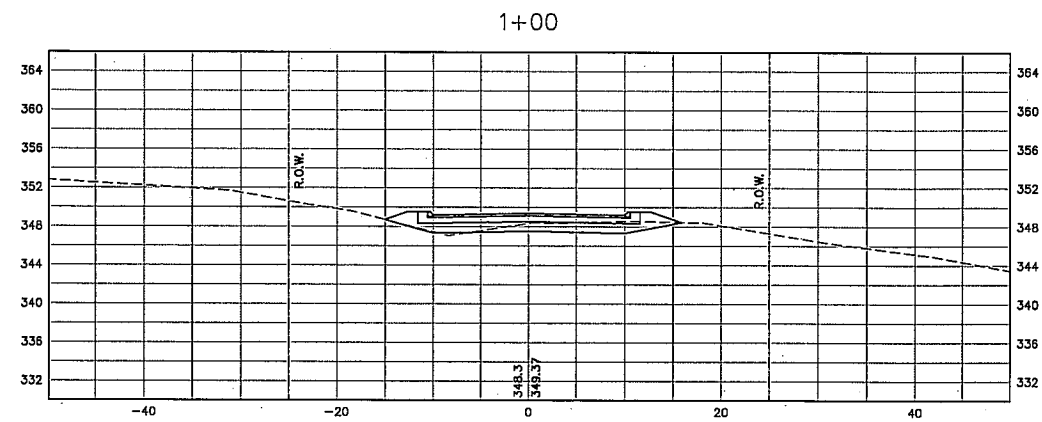
5 RAILROAD ST., P.O. BOX 359
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XS3

NO.	NO.	REVISIONS	DATE	INT.
1.	REVISED PER TOWN COMMENTS--NO REVISIONS THIS SHEET		07/01/13	MJS
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LEGEND:
 340.18 PROPOSED ELEVATION
 360.0 EXISTING ELEVATION
 — PROPOSED GRADE
 - - - EXISTING GRADE
 R.O.W. RIGHT OF WAY
 NOTE: REFER TO SHARED DRIVE CROSS SECTION FOR ADDITIONAL INFORMATION

MJS ENGINEERING, PC
 5 RAILROAD ST., P.O. Box 359
 NEWHART, NH 03657
 PHONE: (603) 663-6637
 E-MAIL: MJS@MJS-ENGINEERING.COM

SHARED DRIVE CROSS SECTIONS prepared for
 GERRIOR LANE TRUST
 THE HOMESTEAD SUBDIVISION PHASE II
 GERRIOR DRIVE BARRINGTON, NH

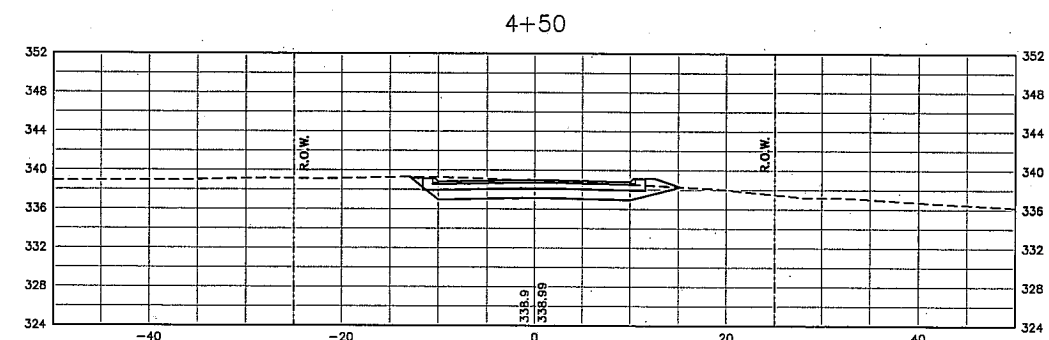
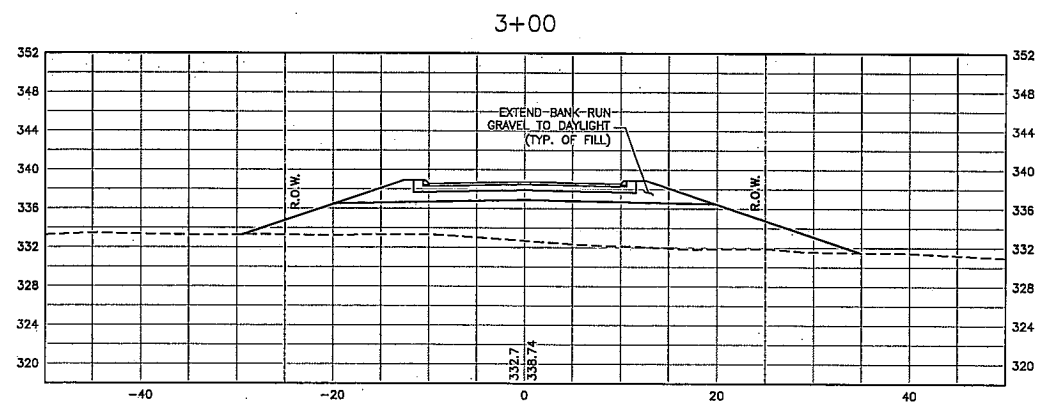
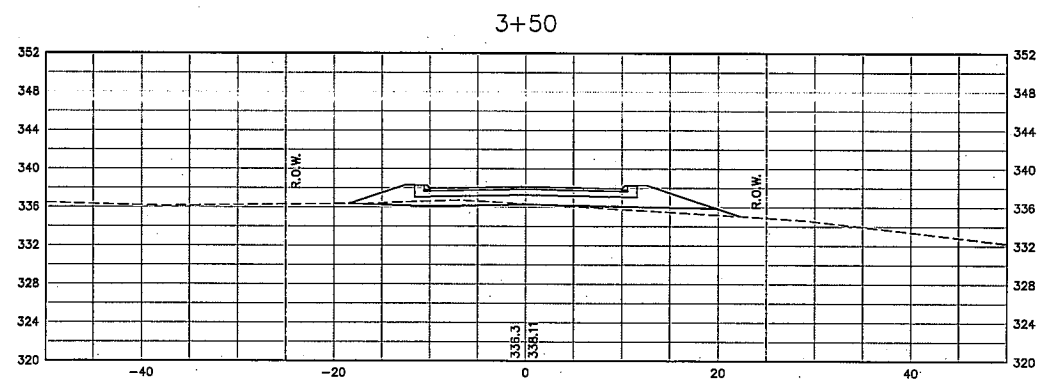
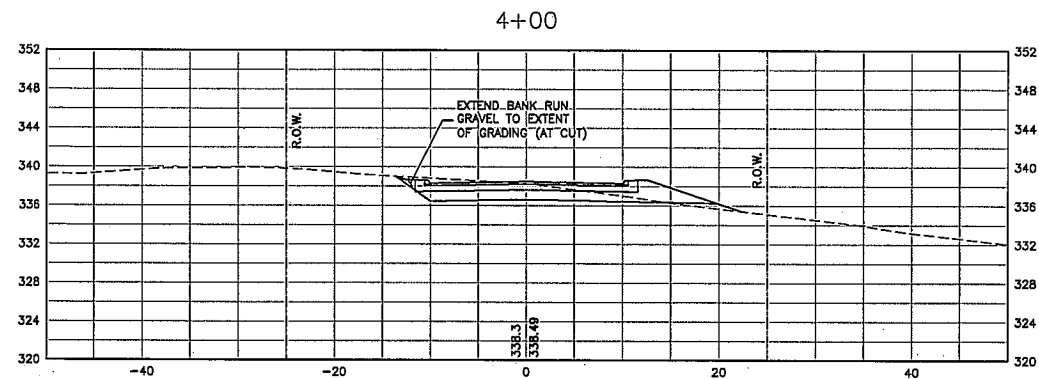
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 DRAWN BY: MS
 APPROVED BY: MJS
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NO. REVISIONS DATE INT.

JOB: 11-060

XS4



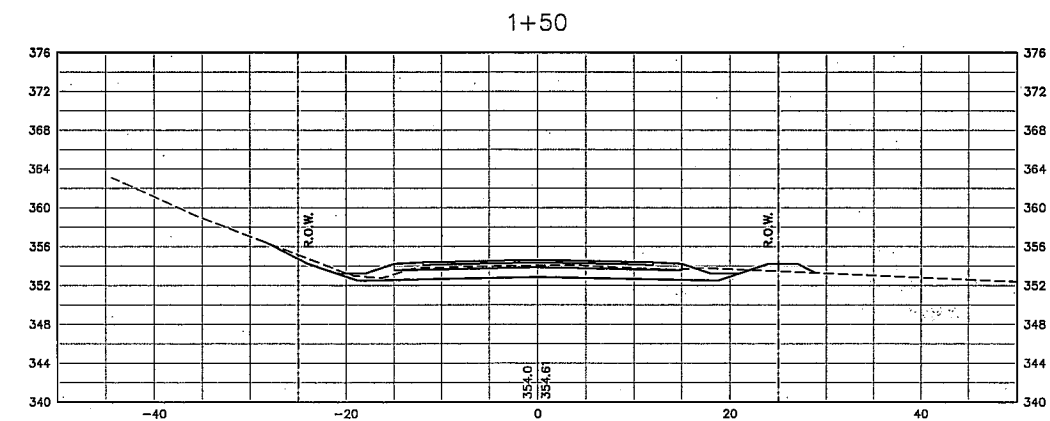
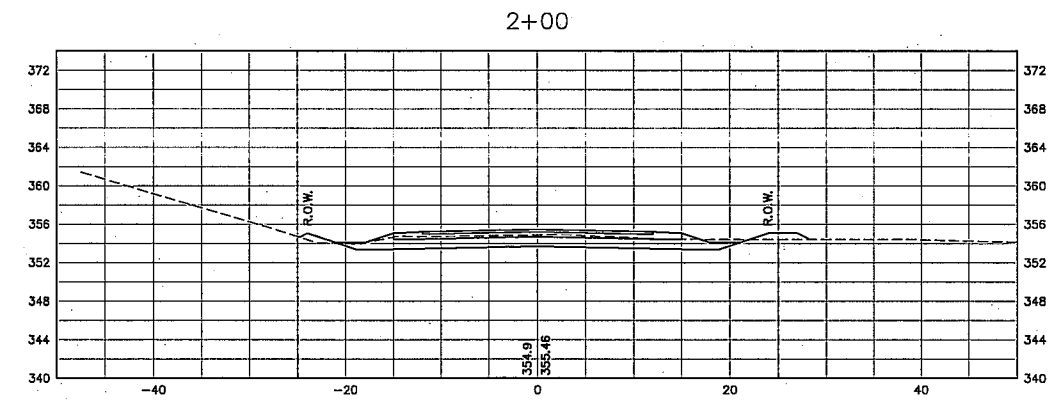
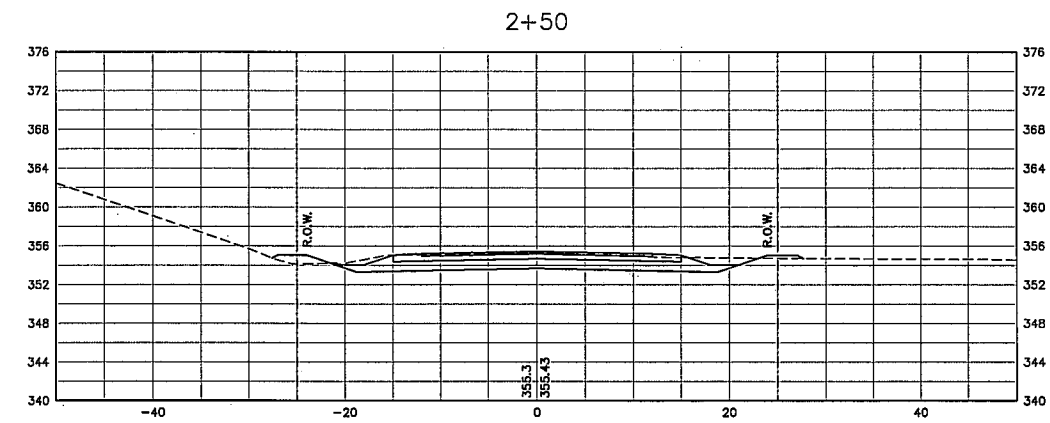
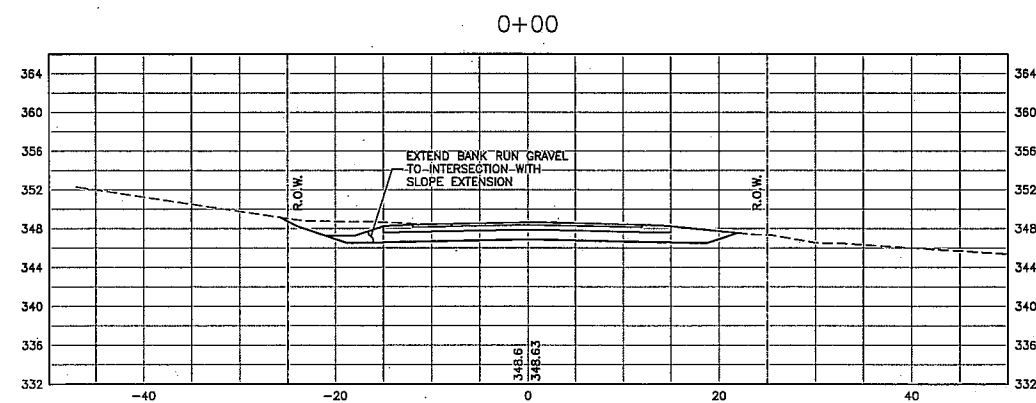
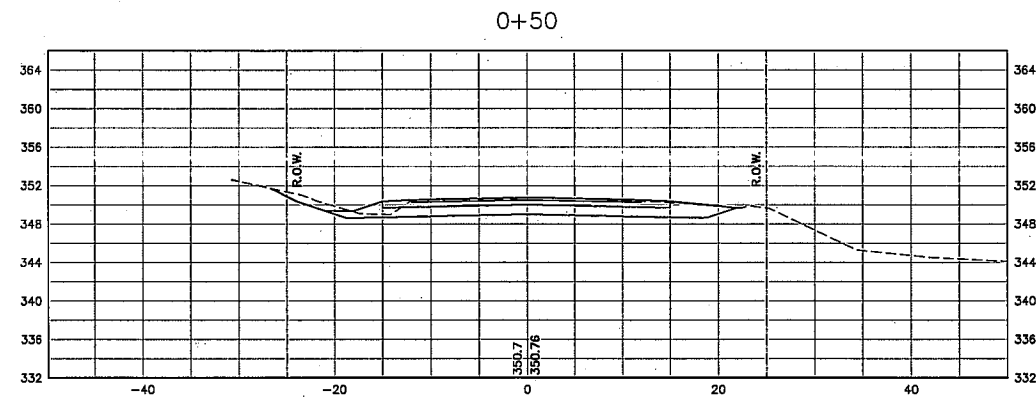
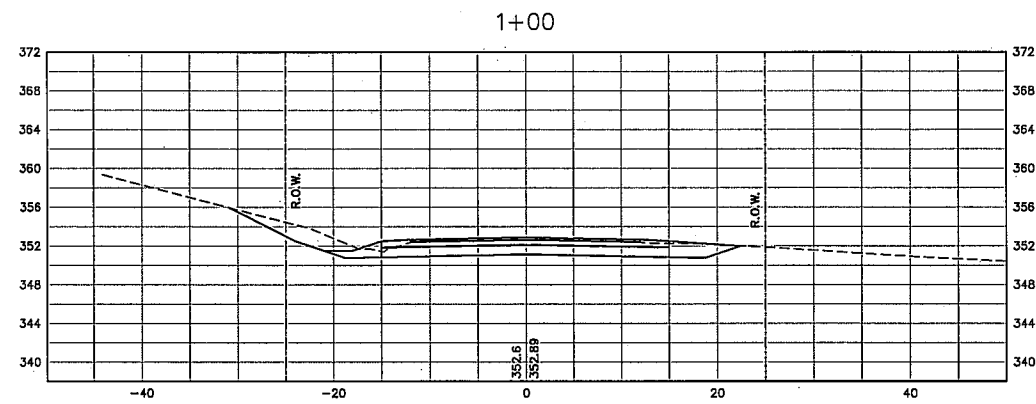
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LEGEND:
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360.0 EXISTING ELEVATION
----- PROPOSED GRADE
----- EXISTING GRADE
R.O.W. RIGHT OF WAY
NOTE: REFER TO SHARED DRIVE CROSS SECTION FOR ADDITIONAL INFORMATION

DATE: 5/15/13		SEAL	
SCALE: 1"=10'			
DESIGNED BY: MS/MJS			
DRAWN BY: MS			
APPROVED BY: MJS			
DWG FILE:			
SHARED DRIVE CROSS SECTIONS prepared for GERRIOR LANE TRUST THE HOMESTEAD SUBDIVISION PHASE II GERRIOR DRIVE BARRINGTON, NH			
MJS ENGINEERING, PC 5 RAILROAD ST., P.O. BOX 359 NEWARK, NH 0387 PHONE (603) 659-4627 FAX (603) 659-4627 E-MAIL: MJS@MJS-ENGINEERING.COM			
JOB: 11-060			
XS5			
NO.		REVISIONS	
DATE		INT.	



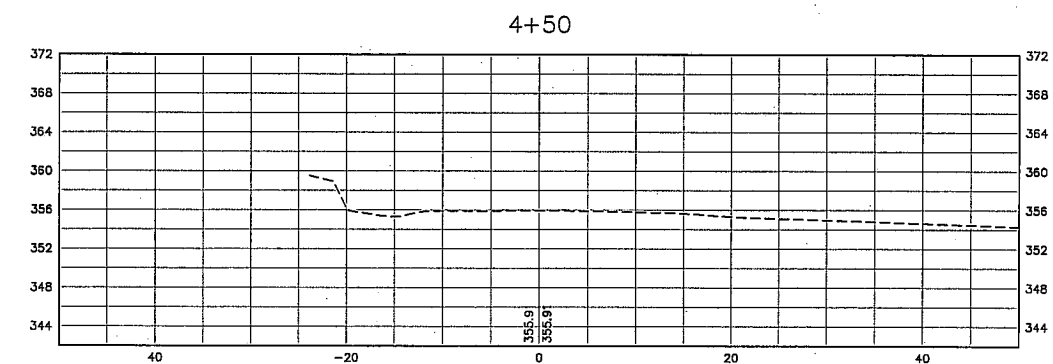
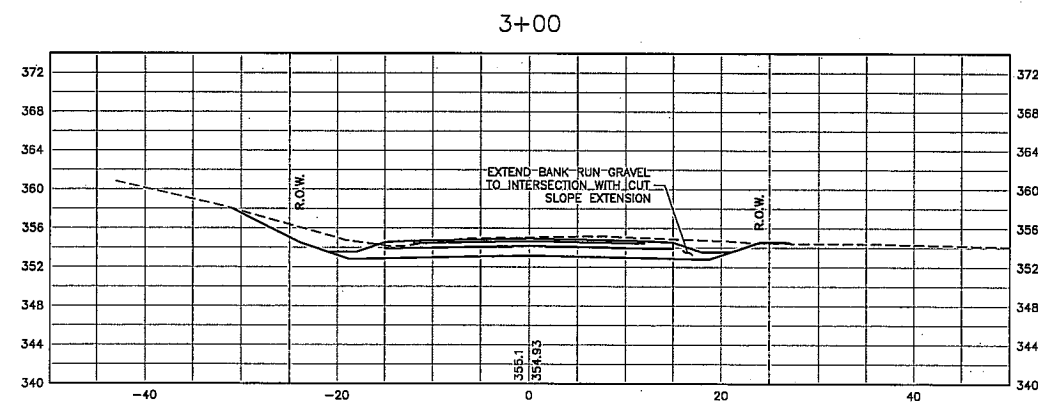
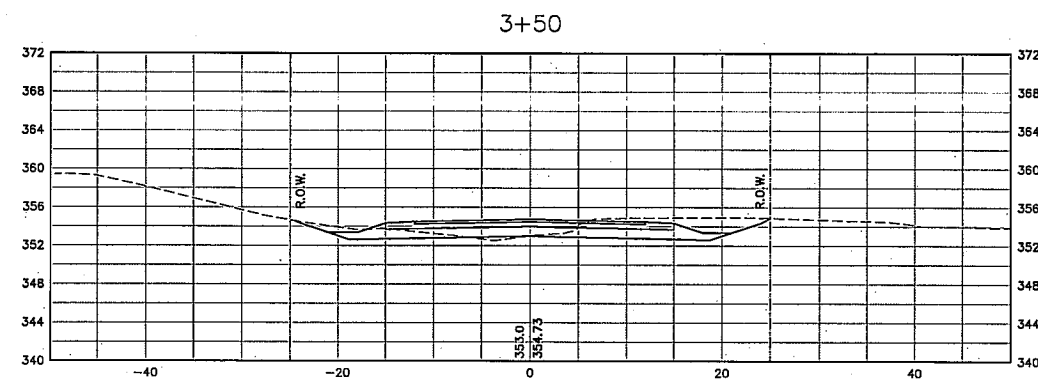
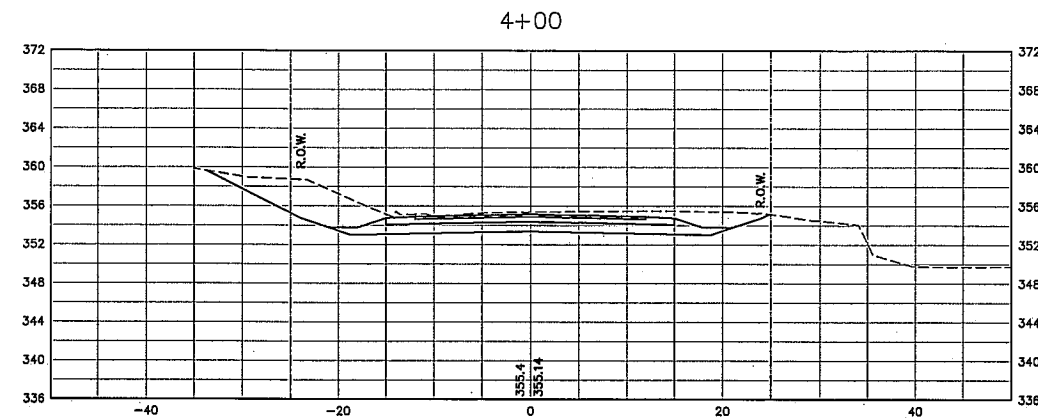
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LEGEND:
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 360.0 EXISTING ELEVATION
 — PROPOSED GRADE
 - - - - - EXISTING GRADE
 R.O.W. RIGHT OF WAY
 NOTE: REFER TO ST. MATTHEWS DRIVE CROSS SECTION FOR ADDITIONAL INFORMATION

ST. MATTHEWS DRIVE CROSS SECTIONS prepared for GERRIOR LANE TRUST THE HOMESTEAD SUBDIVISION PHASE II GERRIOR DRIVE BARRINGTON, NH		DATE: 5/15/13 SCALE: 1"=10' DESIGNED BY: MS/MJS DRAWN BY: MS APPROVED BY: MJS DWG FILE:		SEAL
MJS ENGINEERING, PC 5 RAILROAD ST., P.O. BOX 359 NEWBURY, NH 03857 PHONE (603) 857-7747 FAX (603) 658-4027 E-MAIL: MJS@MJS-ENGINEERING.COM		REVISED PER TOWN COMMENTS-NO REVISIONS THIS SHEET INITIAL SUBMISSION TO BARRINGTON PLANNING BOARD		NO.
JUL 01 2013		DATE		INT.
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 340.18 PROPOSED ELEVATION
 360.0 EXISTING ELEVATION
 — PROPOSED GRADE
 - - - EXISTING GRADE
 R.O.W. RIGHT OF WAY
 NOTE: REFER TO ST. MATTHEWS DRIVE CROSS SECTION FOR ADDITIONAL INFORMATION

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 E-MAIL: TJS@MJS-ENGINEERING.COM

ST. MATTHEWS DRIVE
 CROSS SECTIONS
 prepared for
 GERRIOR LANE TRUST
 THE HOMESTEAD SUBDIVISION PHASE II
 GERRIOR DRIVE BARRINGTON, NH

DATE: 5/15/13
 SCALE: 1"=10'
 DESIGNED BY: MS/MJS
 DRAWN BY: MS
 APPROVED BY: MJS
 DWG FILE:

1. REVISED PER TOWN COMMENTS-NO REVISIONS THIS SHEET
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 DATE INT.

SEAL

JOB: 11-060

XS7

CONSTRUCTION SEQUENCING AND EROSION CONTROL NOTES

EXISTING CONDITIONS

1. THE PROJECT LOCATION IS: LATITUDE 43°-10'-17", LONGITUDE 71°-04'-39".
2. THE TOTAL PARCEL CONSISTS OF APPROXIMATELY 125 ACRES STRADDLING THE NOTTINGHAM/BARRINGTON TOWN LINE WITH ACCESS FROM ROUTE 4. THE PARCEL IS CURRENTLY SUBDIVIDED INTO 37 RESIDENTIAL LOTS, APPROVED IN 2005. 12 OF THE 37 LOTS ARE LOCATED IN NOTTINGHAM.
3. THE ORIGINAL PROJECT WAS PROPOSED TO BE CONSTRUCTED IN TWO PHASES. PHASE 1 HAS BEEN COMPLETED. ALL BUT ONE LOT IN PHASE 1 HAS BEEN DEVELOPED.

PROPOSED PROJECT

1. THIS PROJECT IS THE RE-SUBDIVISION OF THE PHASE 2 PORTION OF THE ORIGINAL DEVELOPMENT INTO A TOTAL OF 10 LOTS AND 1,000 FT OF NEW ROAD. TWO OF THE PROPOSED LOTS WILL HAVE FRONTAGE ON ST. MATTHEWS DRIVE AND BE ACCESSED BY A SHARED DRIVEWAY.
2. THE BALANCE OF THE PHASE 2 LAND AREA WILL REMAIN UNDEVELOPED AND BE ADDED TO THE EXISTING CONSERVATION LAND CREATED UNDER THE ORIGINAL SUBDIVISION.
3. THE TOTAL AREA OF DISTURBANCE FOR BOTH PHASES IS 267,271 SF.

AREA OF DISTURBANCE/STABILIZATION

- A. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL THE AREA OF UNSTABILIZED SOIL EXCEED 5 ACRES AT ANY ONE TIME BEFORE THE AREA IS STABILIZED.
B. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
1. IN AREAS TO BE PAVED, BASE COURSE GRAVELS MEETING THE GRADATION REQUIREMENTS OF NHDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, ITEM NO. 304.1 OR 304.2 HAVE BEEN INSTALLED;
2. IN AREAS NOT TO BE PAVED
A. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
B. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED;
C. EROSION CONTROL BLANKETS HAVE BEEN INSTALLED IN ACCORDANCE WITH ENV-WD 1506.03.
C. ALL DISTURBED AREAS SHALL BE TEMPORARILY STABILIZED WITHIN 45 DAYS AND PERMANENTLY STABILIZED NO LATER THAN 3 DAYS AFTER FINAL GRADING.

EROSION CONTROL PRACTICES:

- A. INSTALLATION:
1. INSTALL ALL EROSION CONTROLS AS SHOWN ON THE GRADING PLAN, TYPICAL DETAILS, AND IN CONFORMANCE WITH THE EROSION AND SEDIMENT CONTROL NOTES ON THIS PAGE. MANUFACTURER'S SPECIFICATIONS SHALL BE FOLLOWED.
B. INSPECTION:
1. INSPECT ALL EROSION CONTROLS WEEKLY AND AFTER EVERY RAIN EVENT OF 0.5 INCHES OR GREATER UNLESS OTHERWISE NOTED.
2. TEMPORARY STABILIZATION PRACTICES SHALL BE INSPECTED ONCE PER WEEK DURING CONSTRUCTION UNTIL EXPOSED SURFACES ARE STABILIZED.
3. ANY SIGNS OF RILL OR GULLY EROSION SHALL BE IMMEDIATELY REPAIRED.
C. MAINTENANCE:
1. MAINTAIN EROSION CONTROLS PER THE TYPICAL DETAILS AND IN CONFORMANCE WITH THE EROSION AND SEDIMENT CONTROL NOTES ON THIS PAGE.
D. REMOVAL:
1. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE 85% VEGETATIVE COVER HAS BEEN ESTABLISHED.
2. AFTER REMOVAL, ALL DISTURBED AREAS SHALL BE REGRADED, FERTILIZED, AND RESEEDED. MONITOR TO ENSURE VEGETATIVE GROWTH IS ESTABLISHED AND REPAIR AS NEEDED UNTIL MINIMUM OF 85% VEGETATIVE COVER IS ESTABLISHED.

COLD WEATHER SITE STABILIZATION

- A. SHALL BE UTILIZED BETWEEN NOVEMBER 30TH AND MAY 1ST. THE AREA OF EXPOSED UNSTABILIZED SOIL SHALL BE LIMITED TO 1 ACRE AND SHALL BE PROTECTED AGAINST EROSION BY THE FOLLOWING METHODS PRIOR TO ANY THAW OR SPRING MELT EVENT.
B. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 30TH, OR WHICH ARE DISTURBED AFTER NOVEMBER 30TH, SHALL BE SEEDED AND COVERED WITH 3-4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR TACKIFIER, OR 2 INCHES OF EROSION CONTROL MIX MEETING THE FOLLOWING CRITERIA:
1. THE MIX SHALL HAVE AN ORGANIC PORTION BETWEEN 25% AND 65%, DRY WEIGHT BASIS, AND BE FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR EQUIVALENT MANUFACTURED PRODUCTS;
2. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS SHALL NOT BE USED AS THE ORGANIC MATERIAL;
3. THE MIX SHALL NOT CONTAIN SILTS, CLAYS, OR FINE SANDS;
4. THE MIX SHALL HAVE A PARTICLE SIZE BY WEIGHT OF 100% PASSING A 3-INCH SCREEN, 80% TO 100% PASSING A 1-INCH SCREEN, 70% TO 100% PASSING A 0.75-INCH SCREEN, AND 30% TO 75% PASSING A 0.25 INCH SCREEN;
5. THE MIX PH SHALL BE BETWEEN 5.0 AND 8.0;
C. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 30TH, OR WHICH ARE DISTURBED AFTER NOVEMBER 30TH, SHALL BE SEEDED AND COVERED WITH A PROPERLY INSTALLED AND ANCHORED EROSION CONTROL BLANKET OR WITH A MINIMUM 4 INCH THICKNESS OF EROSION CONTROL MIX MEETING THE CRITERIA SPECIFIED IN (B)(1)-(5);
D. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX, MEETING THE CRITERIA SPECIFIED IN (B)(1)-(5) SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1-INCH IN DEPTH.
E. INSTALLATION OF EROSION CONTROL BLANKETS SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH OR ON FROZEN GROUND.
F. ALL PROPOSED COLD WEATHER STABILIZATION IN ACCORDANCE WITH (A) OR (B) SHALL BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS.
G. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 30TH, OR WHICH ARE DISTURBED AFTER NOVEMBER 30TH, SHALL BE STABILIZED WITH A MINIMUM 3-INCH LAYER OF BASE COURSE GRAVELS MEETING THE GRADATION REQUIREMENTS OF NHDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, ITEM NO. 304.1 OR 304.2.
H. AFTER NOVEMBER 30TH, INCOMPLETE ROAD OR PARKING SURFACES WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE PROTECTED WITH A MINIMUM 3-INCH LAYER OF BASE COURSE GRAVELS MEETING THE GRADATION REQUIREMENTS OF NHDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, ITEM NO. 304.1 OR 304.2.

TEMPORARY VEGETATION

- A. SITE PREPARATION
1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SPECIFIED ABOVE.
2. ENSURE RUNOFF IS DIVERTED FROM SEEDED AREA.
3. ON SLOPES OF 4:1 OR STEEPER, CREATE HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.
B. SEED BED PREPARATION
1. REMOVE STONES AND TRASH FROM AREA TO BE SEEDDED.
2. COMPACTED SOIL SHALL BE LOOSENED TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME, AND SEED.
3. APPLY FERTILIZER AT A RATE OF 600 LBS PER ACRE OF 10-10-10. APPLY LIME (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE.
C. SEEDING
1. SEED PER THE FOLLOWING RECOMMENDATIONS
A. GENERAL
1. APPLY PRIOR TO A STORM EVENT. CLOSELY MONITOR THE WEATHER TO HAVE ADEQUATE WARNING OF SIGNIFICANT STORMS.
2. MULCHING WITHIN A SPECIFIED TIME PERIOD FROM ORIGINAL SOIL EXPOSURE
A. WITHIN 100 FEET OF WETLANDS THE TIME PERIOD SHOULD BE NO GREATER THAN 7 DAYS.
B. IN OTHER AREAS IT SHALL BE NO GREATER THAN 14 DAYS.
B. TEMPORARY MULCHING
1. HAY OR STRAW MULCHES
A. ORGANIC MULCHES INCLUDING HAY AND STRAW SHALL BE AIR-DRIED, FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS.
B. APPLICATION RATE SHALL BE 2 BALES/1,000 SF (70-90 POUNDS) OR 1.5-2.0 TONS/ACRE TO COVER 75-90% OF THE GROUND.
C. ANCHORING
1. NETTING: NETTING SHALL BE JUTE, WOOD FIBER, OR BIODEGRADABLE PLASTIC NETTING INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. TACKIFIER: APPLY POLYMER OR ORGANIC TACKIFIER TO ANCHOR HAY OR STRAW MULCH. APPLY PER MANUFACTURER'S SPECIFICATIONS. TYPICAL APPLICATION RATES ARE 40-60 LBS/ACRE FOR POLYMER MATERIAL AND 80-120 LBS/ACRE FOR ORGANIC LIQUID.
D. WINTER APPLICATION: APPLY TO A DEPTH OF 4 INCHES OR DOUBLE THE ABOVE APPLICATION RATE. NOTE THAT IF SEEDING IS NECESSARY, MULCH WILL NEED TO BE REMOVED AND THE AREA SEEDDED AND MULCHED IN THE SPRING.
E. MAINTENANCE
1. INSPECT PERIODICALLY AND AFTER RAIN STORMS FOR RILLS OR DISPLACEMENT OF MULCH. REPAIR AS NECESSARY. CONTINUE INSPECTIONS UNTIL 85% VEGETATIVE COVER IS ESTABLISHED.
2. EROSION CONTROL BLANKET OR MATTING
A. REFER TO PLANS FOR TYPICAL EROSION CONTROL MATTING DETAIL. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
B. APPLICATION AND TIMING
1. DURING THE GROWING SEASON (APRIL 15 - SEPTEMBER 15) USE ON THE BASE OF GRASSSED WATERWAYS, STEEP SLOPES (15% OR GREATER), ANY DISTURBED SOIL WITHIN 100 FEET OF LAKES, STREAMS, AND WETLANDS.
2. DURING THE LATE FALL AND WINTER (SEPTEMBER 15 - APRIL 15) IN ADDITION TO THOSE LISTED ABOVE USE ON SIDE SLOPES OF GRASSSED WATERWAYS AND MODERATE SLOPES (GREATER THAN 8%).
C. MAINTENANCE
1. INSPECT PERIODICALLY AND BEFORE AND AFTER STORM EVENTS TO ENSURE CONTACT WITH THE SOIL UNTIL 85% VEGETATIVE COVER IS ESTABLISHED. REPAIR AND RESTAPLE AS NECESSARY.
C. PERMANENT MULCHING
1. WOOD CHIPS OR GROUND BARK
A. APPLY TO THICKNESS OF 2 TO 6 INCHES. TYPICAL APPLICATION RATES ARE 10-20 TONS/ACRE OR 460-920 POUNDS/1,000 SF.
B. MAINTENANCE:
1. INSPECT ANNUALLY AND AFTER RAIN EVENTS OF 2.5 INCHES OR MORE IN A 24 HOUR PERIOD. REPAIR/REPLACE AS NECESSARY.
2. EROSION CONTROL MIX
A. COMPOSITION OF THE MIX SHALL BE AS FOLLOWS:
1. ORGANIC MATTER CONTENT SHALL BE BETWEEN 25-65% DRY WEIGHT BASIS.
2. PARTICLE SIZE BY WEIGHT SHOULD BE 100% PASSING THE 3" SCREEN, 80-100% PASSING THE 1" SCREEN, 70-100% PASSING THE 0.75 INCH SCREEN, AND 30-75% PASSING THE 0.25 INCH SCREEN.
3. THE ORGANIC PORTION SHALL BE ELONGATED AND FIBROUS. IT SHALL NOT CONTAIN WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS.
4. THE MIX SHALL NOT CONTAIN SILTS, CLAYS, OR FINE SANDS.
5. SOLUBLE SALTS CONTENT SHALL BE < 4.0MMHOS/CM AND A pH OF 5.0-8.0.
B. PLACEMENT OF BERM
1. PLACE BERM ALONG A LEVEL CONTOUR. BERM MUST BE A MINIMUM OF 12" HIGH ON THE UPHILL SIDE AND 2 FEET WIDE.
C. MAINTENANCE
1. INSPECT PERIODICALLY AND AUGMENT AS NEEDED TO MAINTAIN INITIAL THICKNESS. REPLACE IF NO LONGER FUNCTIONING AS INTENDED.

4. AREAS SEEDDED BETWEEN MAY 15TH AND AUGUST 15TH SHOULD BE COVERED WITH HAY OR STRAW MULCH.
5. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHOULD BE ACHIEVED PRIOR TO OCTOBER 15TH. IF THIS CONDITION IS NOT MET, REPAIR AND RESTAPLE OTHER TEMPORARY STABILIZATION MEASURES FOR OVERWINTER PROTECTION.
D. MAINTENANCE
1. TEMPORARY SEEDING SHOULD BE INSPECTED WEEKLY AND AFTER ANY RAINFALL EXCEEDING ½ INCH IN 24 HOURS ON ACTIVE CONSTRUCTION SITES. TEMPORARY SEEDING SHOULD ALSO BE INSPECTED JUST PRIOR TO SEPTEMBER 15, TO ASCERTAIN WHETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABILIZATION OVER THE WINTER PERIOD.
2. BASED ON INSPECTION, AREAS SHOULD BE RESEEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS. IF IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION MEASURES SHOULD BE IMPLEMENTED.
3. AT A MINIMUM, 85% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION.
4. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHOULD BE MADE AND AREAS SHOULD BE RESEEDED, WITH OTHER TEMPORARY MEASURES (E.G., MULCH) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

PERMANENT VEGETATION

- A. SITE PREPARATION
1. REFER TO SITE PREPARATION FOR TEMPORARY SEEDING.
B. SEED BED PREPARATION
1. WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
2. REMOVE FROM THE SURFACE ALL STONES 2 INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, CONCRETE, CLOUDS, LUMPS, TRASH OR OTHER UNSUITABLE MATERIAL.
3. INSPECT SOIL BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE TILLED AND FIRMED AS ABOVE.
4. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
5. APPLY FERTILIZER AT A RATE OF 600 LBS PER ACRE OF 10-10-10. APPLY LIME (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE.
C. SEEDING
1. GRASS SEED MIXTURE 'C' SHALL BE APPLIED AT THE SPECIFIED RATE AS NOTED IN THE 'SEED MIXTURES FOR PERMANENT VEGETATION' TABLE.
2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM ¼ TO ½ INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING OPERATIONS SHOULD BE ON THE CONTOUR.
3. WHERE FEASIBLE, EXCEPT WHERE EITHER A CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG.
4. WHEN HYDROSEEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDBED AS SPECIFIED ABOVE OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND TO REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.
5. SLOPES MUST BE NO STEEPER THAN 2 TO 1.
6. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH.
7. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING.
D. MAINTENANCE
1. PERMANENTLY SEEDDED AREAS SHOULD BE INSPECTED MONTHLY.
2. MOW SEEDDED AREAS AS NECESSARY.
3. BASED ON INSPECTION, AREAS SHOULD BE REPAIRED AND/OR RESEEDED TO ENSURE 85% OF THE SOIL SURFACE IS COVERED BY VEGETATION.

MULCHING & EROSION CONTROL MATTING

- A. GENERAL
1. APPLY PRIOR TO A STORM EVENT. CLOSELY MONITOR THE WEATHER TO HAVE ADEQUATE WARNING OF SIGNIFICANT STORMS.
2. MULCHING WITHIN A SPECIFIED TIME PERIOD FROM ORIGINAL SOIL EXPOSURE
A. WITHIN 100 FEET OF WETLANDS THE TIME PERIOD SHOULD BE NO GREATER THAN 7 DAYS.
B. IN OTHER AREAS IT SHALL BE NO GREATER THAN 14 DAYS.
B. TEMPORARY MULCHING
1. HAY OR STRAW MULCHES
A. ORGANIC MULCHES INCLUDING HAY AND STRAW SHALL BE AIR-DRIED, FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS.
B. APPLICATION RATE SHALL BE 2 BALES/1,000 SF (70-90 POUNDS) OR 1.5-2.0 TONS/ACRE TO COVER 75-90% OF THE GROUND.
C. ANCHORING
1. NETTING: NETTING SHALL BE JUTE, WOOD FIBER, OR BIODEGRADABLE PLASTIC NETTING INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. TACKIFIER: APPLY POLYMER OR ORGANIC TACKIFIER TO ANCHOR HAY OR STRAW MULCH. APPLY PER MANUFACTURER'S SPECIFICATIONS. TYPICAL APPLICATION RATES ARE 40-60 LBS/ACRE FOR POLYMER MATERIAL AND 80-120 LBS/ACRE FOR ORGANIC LIQUID.
D. WINTER APPLICATION: APPLY TO A DEPTH OF 4 INCHES OR DOUBLE THE ABOVE APPLICATION RATE. NOTE THAT IF SEEDING IS NECESSARY, MULCH WILL NEED TO BE REMOVED AND THE AREA SEEDDED AND MULCHED IN THE SPRING.
E. MAINTENANCE
1. INSPECT PERIODICALLY AND AFTER RAIN STORMS FOR RILLS OR DISPLACEMENT OF MULCH. REPAIR AS NECESSARY. CONTINUE INSPECTIONS UNTIL 85% VEGETATIVE COVER IS ESTABLISHED.
2. EROSION CONTROL BLANKET OR MATTING
A. REFER TO PLANS FOR TYPICAL EROSION CONTROL MATTING DETAIL. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
B. APPLICATION AND TIMING
1. DURING THE GROWING SEASON (APRIL 15 - SEPTEMBER 15) USE ON THE BASE OF GRASSSED WATERWAYS, STEEP SLOPES (15% OR GREATER), ANY DISTURBED SOIL WITHIN 100 FEET OF LAKES, STREAMS, AND WETLANDS.
2. DURING THE LATE FALL AND WINTER (SEPTEMBER 15 - APRIL 15) IN ADDITION TO THOSE LISTED ABOVE USE ON SIDE SLOPES OF GRASSSED WATERWAYS AND MODERATE SLOPES (GREATER THAN 8%).
C. MAINTENANCE
1. INSPECT PERIODICALLY AND BEFORE AND AFTER STORM EVENTS TO ENSURE CONTACT WITH THE SOIL UNTIL 85% VEGETATIVE COVER IS ESTABLISHED. REPAIR AND RESTAPLE AS NECESSARY.
C. PERMANENT MULCHING
1. WOOD CHIPS OR GROUND BARK
A. APPLY TO THICKNESS OF 2 TO 6 INCHES. TYPICAL APPLICATION RATES ARE 10-20 TONS/ACRE OR 460-920 POUNDS/1,000 SF.
B. MAINTENANCE:
1. INSPECT ANNUALLY AND AFTER RAIN EVENTS OF 2.5 INCHES OR MORE IN A 24 HOUR PERIOD. REPAIR/REPLACE AS NECESSARY.
2. EROSION CONTROL MIX
A. COMPOSITION OF THE MIX SHALL BE AS FOLLOWS:
1. ORGANIC MATTER CONTENT SHALL BE BETWEEN 25-65% DRY WEIGHT BASIS.
2. PARTICLE SIZE BY WEIGHT SHOULD BE 100% PASSING THE 3" SCREEN, 80-100% PASSING THE 1" SCREEN, 70-100% PASSING THE 0.75 INCH SCREEN, AND 30-75% PASSING THE 0.25 INCH SCREEN.
3. THE ORGANIC PORTION SHALL BE ELONGATED AND FIBROUS. IT SHALL NOT CONTAIN WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS.
4. THE MIX SHALL NOT CONTAIN SILTS, CLAYS, OR FINE SANDS.
5. SOLUBLE SALTS CONTENT SHALL BE < 4.0MMHOS/CM AND A pH OF 5.0-8.0.
B. PLACEMENT OF BERM
1. PLACE BERM ALONG A LEVEL CONTOUR. BERM MUST BE A MINIMUM OF 12" HIGH ON THE UPHILL SIDE AND 2 FEET WIDE.
C. MAINTENANCE
1. INSPECT PERIODICALLY AND AUGMENT AS NEEDED TO MAINTAIN INITIAL THICKNESS. REPLACE IF NO LONGER FUNCTIONING AS INTENDED.

SEED MIXTURE SELECTION BASED ON SOIL TYPE					
USE	SEEDING MIXTURE	SOIL DRAINAGE			
		DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	EXCELLENT	GOOD
	C	POOR	GOOD	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER.	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	EXCELLENT	EXCELLENT	FAIR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES.	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	EXCELLENT	POOR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	E	FAIR	EXCELLENT	EXCELLENT	SEE NOTE
	F	FAIR	EXCELLENT	EXCELLENT	SEE NOTE

NOTE: POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREAS AND ATHLETIC FIELDS.

SEED MIXTURES FOR PERMANENT VEGETATION			
MIXTURE	SPECIES	POUNDS PER ACRE	POUNDS PER 1,000 SF
A	TALL FESCUE	20	0.45
	CREeping RED FESCUE	20	0.45
	REDTOP	2	0.05
	TOTAL	42	0.95
B	TALL FESCUE	15	0.35
	CREeping RED FESCUE	10	0.25
	CROPER VETCH	1	0.35
	TOTAL	26	0.95
C	TALL FESCUE	20	0.45
	CREeping RED FESCUE	20	0.45
	BIRDSEED TREFOIL	8	0.20
	TOTAL	48	1.10
D	TALL FESCUE	20	0.45
	ELATPEA	30	0.75
	TOTAL	50	1.20
E	CREeping RED FESCUE	50	1.15
	KENTUCKY BLUEGRASS	50	1.15
	TOTAL	100	2.30
F	TALL FESCUE	150	3.60

SOIL STOCKPILES

- A. GENERAL
1. PLACE IN THE LOCATIONS SHOWN ON THE PLAN. ADDITIONAL STOCKPILES MUST BE LOCATED 50 FEET FROM DITCHES AND CULVERT INLETS.
B. PROTECTION OF STOCKPILES
1. PROTECT SOIL AND AGGREGATE STOCKPILES WITH TEMPORARY PERIMETER SEDIMENT BARRIER SUCH AS SILT FENCE OR SILT SOCK.
2. COVER ACTIVE STOCKPILES WITH ANCHORED PROTECTIVE COVERING PRIOR TO EXPECTED STORM EVENTS.
3. INACTIVE STOCKPILES SHALL BE COVERED WITH ANCHORED TARPS OR TEMPORARILY SEEDDED AND MULCHED PER THE TEMPORARY VEGETATION AND MULCHING NOTES ON THIS PAGE.
4. STOCKPILES THAT ARE A SOURCE OF DUST SHALL BE COVERED.

DUST CONTROL

- A. DUST SHALL BE CONTROLLED ON SITE DURING CONSTRUCTION BY IMPLEMENTING THE FOLLOWING DUST CONTROL MEASURES
1. MULCHING AND VEGETATIVE COVER TO REDUCE DUST.
2. MECHANICAL SWEEPERS AND FINE WATER SPRAYS.
3. COVER SURFACES WITH CRUSHED STONE OR COARSE GRAVEL.

PHASE 1 CONSTRUCTION SEQUENCING NOTES

1. THIS PROJECT IS PROPOSED TO BE CONSTRUCTED IN TWO PHASES. THE NOTES OF THIS SECTION REFER TO PHASE 1.
2. PHASE 1 INCLUDES THE REALIGNMENT AND RECONSTRUCTION OF A PORTION OF ST. MATTHEWS DR. AT THE SOUTHWEST CORNER OF THE PARCEL. THE LENGTH OF ROAD TO BE RECONSTRUCTED IS APPROXIMATELY 450 FT. THIS PHASE ALSO INCLUDES THE CONSTRUCTION OF APPROXIMATELY 500 FT OF SHARED DRIVEWAY ACCESS FOR LOTS 9 AND 10.
3. THE COMMON DRIVEWAY CONSTRUCTION SHALL PROCEED FIRST TO MINIMIZE DAMAGE TO ANY PROPOSED WORK IN ST. MATTHEWS DRIVE.
4. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THE PLANS PRIOR TO START OF CONSTRUCTION.
5. CLEAR/GRUB ONLY WITHIN THE LIMITS OF GRADING AS SHOWN ON THE PLANS. REMOVE STUMPS ONLY FROM THOSE AREAS THAT CAN BE WORKED AND STABILIZED WITHIN 45 DAYS OF REMOVAL.
6. STUMPS SHALL BE DISPOSED OFF-SITE IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.
7. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE. CONSTRUCT IN LOCATION(S) SHOWN ON THE PLANS AND PER THE STABILIZED CONSTRUCTION ENTRANCE DETAIL.
8. STOCKPILES
A. STOCKPILE LOAM IN LOCATION(S) SHOWN ON THE PLANS FOR RE-USE AS NEEDED.
B. TEMPORARILY STABILIZE LOAM STOCKPILES WITH:
1. WINTER RYE GRASS - PRIOR TO SEPTEMBER 15TH
2. MULCH - FROM SEPTEMBER 15TH TO MAY 1ST
9. BEGIN DRIVEWAY CONSTRUCTION WITH THE INSTALLATION OF THE PROPOSED 48" CULVERT
10. CULVERT INSTALLATION SHALL BE COMPLETED DURING LOW FLOW CONDITIONS.
11. THE CULVERT SHALL BE INSTALLED TO THE LINE AND GRADES AS SHOWN ON THE DESIGN PLANS.
12. THE BEDDING AND BACKFILL MATERIALS SHALL BE INSTALLED AND COMPACTED IN ACCORDANCE WITH THE CONSTRUCTION DETAILS.
13. THE DESIGN ENGINEER SHALL INSPECT THE SOIL CONDITIONS AT THE SITE PRIOR TO THE PLACEMENT OF THE BEDDING AND CULVERT. UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED WITH SUITABLE BEDDING MATERIAL APPROVED BY THE ENGINEER.
14. ONCE BACKFILL MATERIAL IS OVER THE CROWN OF THE CULVERT TO A MINIMUM DEPTH OF 1 FT, THE REMAINDER OF THE DRIVEWAY CONSTRUCTION SHALL PROCEED.
15. CONSTRUCT AND STABILIZE ALL PERMANENT SEDIMENT, EROSION, AND DETENTION CONTROL FACILITIES AS SHOWN ON THE PLANS.
16. SHARED DRIVEWAY CONSTRUCTION
A. CUTS AND FILLS:
1. CONSTRUCT IN LOCATION(S) AND TO GRADES AS SHOWN ON THE PLANS
2. FILLS:
A. PLACE MAXIMUM 12" LIFTS AND COMPACT TO 95% MAXIMUM DRY DENSITY.
B. ALL MATERIAL BASED ON PROCTOR TEST SHALL BE FREE OF DELETERIOUS MATERIAL SUCH AS LOAM, STUMPS, BRUSH, AND ROCKS LARGER THAN 3/4 THE DEPTH OF THE LIFT BEING PLACED.
3. LOAM AND SEED SLOPES WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
B. BASE MATERIALS:
1. BANK RUN AND CRUSHED GRAVEL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY TO THE DEPTHS SPECIFIED IN THE SHARED DRIVEWAY CROSS SECTION.
17. ONCE DRIVEWAY CONSTRUCTION IS COMPLETED TO CRUSHED GRAVEL GRADE, BEGIN RECONSTRUCTION OF ST. MATTHEWS DRIVE.

18. THE TOWN DPW SHALL BE PROVIDED ADEQUATE NOTIFICATION PRIOR TO BEGINNING CONSTRUCTION. TEMPORARY ROADWAY CLOSURE MAY BE REQUIRED DURING THIS CONSTRUCTION.
19. REMOVE ORGANICS, RIPRAP, STONEWALLS, AND ANY OTHER UNSUITABLE MATERIALS FROM THE GRADING LIMITS AS SHOWN ON THE PLANS FOR THE RECONSTRUCTION OF ST. MATTHEWS DRIVE.
20. ST. MATTHEWS DRIVE ROAD RECONSTRUCTION
A. CUTS AND FILLS:
1. CONSTRUCT IN LOCATION(S) AND TO GRADES AS SHOWN ON THE PLANS
2. FILLS:
A. PLACE MAXIMUM 12" LIFTS AND COMPACT TO 95% MAXIMUM DRY DENSITY.
B. ALL MATERIAL BASED ON PROCTOR TEST SHALL BE FREE OF DELETERIOUS MATERIAL SUCH AS LOAM, STUMPS, BRUSH, AND ROCKS LARGER THAN 3/4 THE DEPTH OF THE LIFT BEING PLACED.
3. LOAM AND SEED SLOPES WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
B. DRAINAGE AND UTILITY STRUCTURES
1. INSTALL AS NECESSARY AND STABILIZE.
C. BASE MATERIALS:
1. BANK RUN AND CRUSHED GRAVEL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY TO THE DEPTHS SPECIFIED IN THE ST. MATTHEWS DRIVE CROSS SECTION.
D. PAVEMENT FOR ST. MATTHEWS DRIVE AND SHARED DRIVE
1. PLACE AS SOON AS POSSIBLE AFTER THE SELECT MATERIALS ARE INSTALLED AND ACCEPTED TO ELIMINATE SOIL EROSION.
2. STABILIZE ALL ROADWAYS, PARKING AREAS, AND THE SHARED DRIVEWAY WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
21. INSPECT, MAINTAIN, AND IF NECESSARY, REPAIR ALL EROSION AND SEDIMENT CONTROL MEASURES AS STATED IN EROSION CONTROL NOTES ON THIS SHEET.
22. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES ONCE INITIAL GROWTH IS ESTABLISHED.

PHASE 2 CONSTRUCTION SEQUENCING NOTES

1. THIS PROJECT IS PROPOSED TO BE CONSTRUCTED IN TWO PHASES. THE NOTES OF THIS SECTION REFER TO PHASE 2.
2. PHASE 2 INCLUDES THE CONSTRUCTION OF THE PROPOSED 1,000 FT OF ROADWAY AND CUL-DE-SAC DESIGNATED AS HERITAGE LANE.
3. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THE PLANS PRIOR TO START OF CONSTRUCTION.
4. CLEAR/GRUB ONLY WITHIN THE LIMITS OF GRADING AS SHOWN ON THE PLANS. REMOVE STUMPS ONLY FROM THOSE AREAS THAT CAN BE WORKED AND STABILIZED WITHIN 45 DAYS OF REMOVAL.
5. CLEAR/GRUB
A. STUMPS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.
6. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE. CONSTRUCT IN LOCATION(S) SHOWN ON THE PLANS AND PER THE STABILIZED CONSTRUCTION ENTRANCE DETAIL.
7. STOCKPILES
A. STOCKPILE LOAM IN LOCATION(S) SHOWN ON THE PLANS FOR RE-USE AS NEEDED.
B. TEMPORARILY STABILIZE LOAM STOCKPILES WITH:
1. WINTER RYE GRASS - PRIOR TO SEPTEMBER 15TH
2. MULCH - FROM SEPTEMBER 15TH TO MAY 1ST
8. CONSTRUCT AND STABILIZE ALL TEMPORARY AND PERMANENT SEDIMENT, EROSION, AND DETENTION CONTROL FACILITIES AS LISTED ABOVE.
9. HERITAGE LANE ROAD CONSTRUCTION
A. CUTS AND FILLS:
1. CONSTRUCT IN LOCATION(S) AND TO GRADES AS SHOWN ON THE PLANS
2. FILLS:
A. PLACE MAXIMUM 12" LIFTS AND COMPACT TO 95% MAXIMUM DRY DENSITY.
B. ALL MATERIAL BASED ON PROCTOR TEST SHALL BE FREE OF DELETERIOUS MATERIAL SUCH AS LOAM, STUMPS, BRUSH, AND ROCKS LARGER THAN 3/4 THE DEPTH OF THE LIFT BEING PLACED.
3. LOAM AND SEED SLOPES WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
B. DRAINAGE AND UTILITY STRUCTURES
1. INSTALL AS SHOWN IN ACCORDANCE WITH DETAILS AND DRY STABILIZE.
C. BASE MATERIALS:
1. BANK RUN AND CRUSHED GRAVEL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY TO THE DEPTHS SPECIFIED IN THE HERITAGE LANE CROSS SECTION.
D. PAVEMENT
1. PLACE AS SOON AS POSSIBLE AFTER THE SELECT MATERIALS ARE INSTALLED AND ACCEPTED TO ELIMINATE SOIL EROSION.
2. STABILIZE ALL ROADWAYS AND DRIVES WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
10. INSPECT, MAINTAIN, AND IF NECESSARY, REPAIR ALL EROSION AND SEDIMENT CONTROL MEASURES AS STATED IN EROSION CONTROL NOTES ON THIS SHEET.
11. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES ONCE INITIAL GROWTH IS ESTABLISHED.

STOCKPILED MATERIALS CONSTRUCTION SEQUENCING NOTES

1. THE EXISTING MATERIAL STOCKPILE ON THE EAST SIDE OF THE INTERSECTION OF GERRIOR LANE AND ST. MATTHEWS DRIVE WILL BE PROCESSED ON-SITE AND USED FOR CONSTRUCTION OF LOT 9 AND DRIVEWAY.
2. EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE MATERIAL PROCESSING SITE PLAN.
3. CLEAR AND GRUB THE AREA SHOWN ON THIS PLAN TO BE USED FOR PROCESSING AND STOCKPILING MATERIAL.
4. LOAM SHALL BE STOCKPILED IN THE LOCATION SHOWN ON THIS SITE PLAN.
5. ALL FILL AND GRAVEL MATERIAL FOR THE PROPOSED SUBDIVISION PROJECT WILL BE PROCESSED FOR THE EXISTING STOCKPILE. ANY EXCESS PROCESSED GRAVEL WILL BE REMOVED FROM THE SITE.
6. THE ESTIMATED QUANTITY OF MATERIAL TO BE PROCESSED FROM THE ON-SITE STOCKPILE IS 10,000 TO 12,000 CY. THE APPROXIMATE QUANTITY OF MATERIAL REQUIRED FOR THE DEVELOPMENT IS 50%. THE REMAINDER OF THE PROCESSED MATERIAL WILL BE REMOVED FROM THE SITE.

ADDITIONAL NOTES

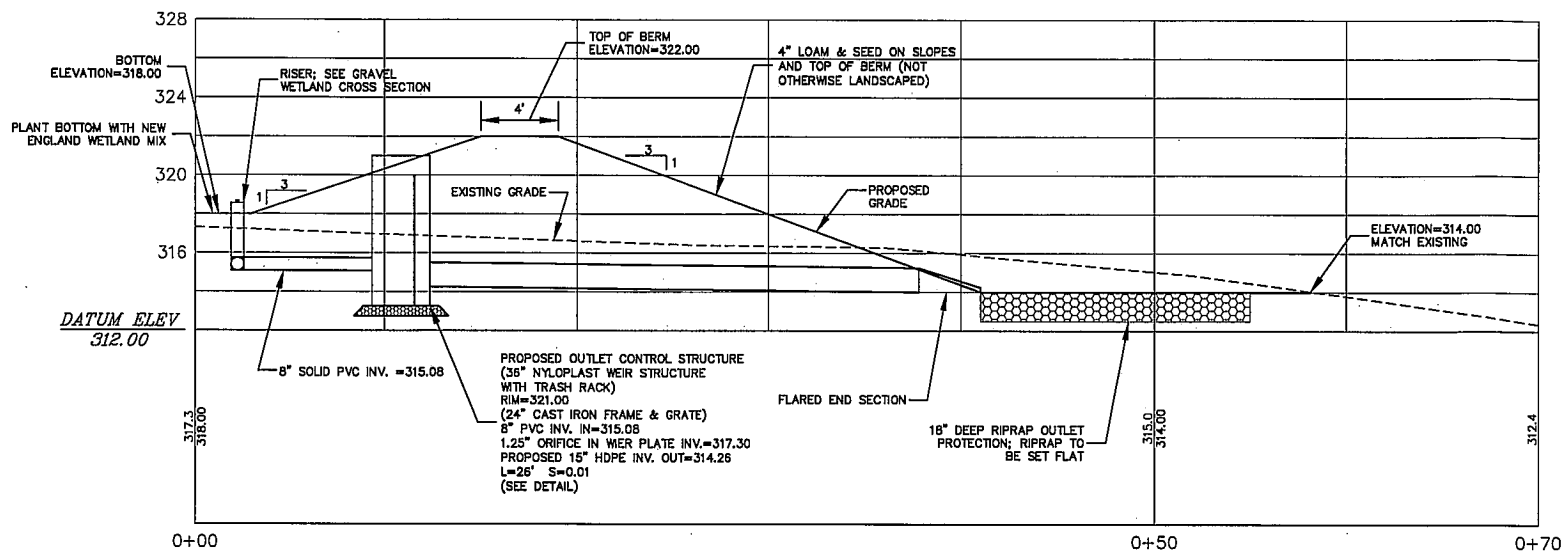
1. NO FUEL SHALL BE STORED ON SITE DURING CONSTRUCTION.
2. DURING CONSTRUCTION DUST SHALL BE PREVENTED FROM BECOMING A SAFETY OR HEALTH HAZARD BY THE IMPLEMENTATION OF ACCEPTED CONTROL METHODS SUCH AS WATERING.
3. ALL CONSTRUCTION MATERIALS THAT ARE SPILLED OR DEPOSITED ON THE PUBLIC ROADWAYS SHALL BE REMOVED BY THE CONTRACTOR.
4. DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE, AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.
5. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE CONTRACTOR SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN.
6. REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OF THE SITE'S SURFACE AREA AND SHALL BE MAINTAINED THROUGH THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.
7. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN OF BARRINGTON SUBDIVISION REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.

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DATE: 5/15/13	SCALE: AS SHOWN	DESIGNED BY: MS/MJS	DRAWN BY: MS	APPROVED BY: MJS	DWG FILE:
CONSTRUCTION DETAILS prepared for GERRIOR LANE TRUST					
THE HOMESTEAD SUBDIVISION PHASE II GERRIOR DRIVE BARRINGTON, NH					
MJS ENGINEERING, PC					
5 RAILROAD ST., P.O. BOX 359 BARRINGTON, NH 03006-0359 PHONE: (603) 659-4079 FAX: (603) 659-4627 E-MAIL: MJS@MJS-ENGINEERING.COM					
CIVIL ENVIRONMENTAL CONSULTING ENGINEERING					
JOB: 11-060					
D1					



SECTION B-B' GRAVEL WETLAND PIPE OUTLET DETAIL
SCALE: 1"=5'

CONSTRUCTION NOTES:

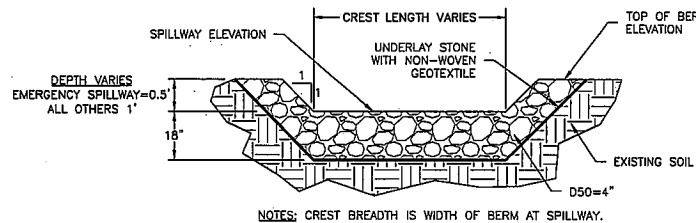
- DO NOT PLACE GRAVEL WETLANDS INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
- DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE GRAVEL WETLAND DURING ANY STAGE OF CONSTRUCTION.
- CLEAR AND GRUB THE AREA WHERE THE GRAVEL WETLAND IS TO BE LOCATED. STOCKPILE LOAM FOR REUSE LATER.
- THE FOUNDATION AREA SHALL BE SCARIFIED PRIOR TO PLACING FILL. ALL UNSUITABLE MATERIAL UNDER THE BERM SHALL BE REMOVED AND REPLACED WITH SUITABLE FOUNDATION MATERIAL.
- THE BERM SHALL BE CONSTRUCTED BEGINNING FROM THE LOWEST POINT UNIFORMLY ALONG ITS ENTIRE LENGTH. PLACE MATERIALS IN MAXIMUM 12" LOOSE LIFTS COMPACTED TO 95% MAXIMUM MODIFIED PROCTOR DENSITY. EMBANKMENT SOIL SHALL HAVE NO ORGANIC MATTER OR FROZEN MATERIAL AND NO STONES LARGER THAN 2/3 OF THE MAXIMUM LOOSE LIFT THICKNESS. STONES AROUND ANY STRUCTURES AND/OR CONDUITS SHALL NOT EXCEED 3 INCHES. EMBANKMENT FILL MATERIAL SHALL HAVE THE FOLLOWING GRADATION:

SIEVE SIZE:	% PASSING:
#4	80-90
#10	50-60
#100	30-45
#200	15-30

- ALL PIPE TO PIPE CONNECTIONS SHALL BE WATER-TIGHT.
- ALL DISTURBED AREAS NOT OTHERWISE PLANTED SHALL RECEIVE FOUR INCHES OF LOAM AND SEED PER THE CONSTRUCTION SEQUENCING AND EROSION CONTROL NOTES ON SHEET D1.

GRAVEL WETLAND MAINTENANCE:

- SYSTEMS SHOULD BE INSPECTED AT LEAST TWICE ANNUALLY, AND FOLLOWING ANY RAINFALL EVENT EXCEEDING 2.5 INCHES IN A 24 HOUR PERIOD, WITH MAINTENANCE OR REHABILITATION CONDUCTED AS WARRANTED BY SUCH INSPECTION.
- TRASH AND DEBRIS SHOULD BE REMOVED AT EACH INSPECTION.
- AT LEAST ONCE ANNUALLY, SYSTEM SHOULD BE INSPECTED FOR DRAINAGE TIME. IF GRAVEL WETLAND DOES NOT DRAIN WITHIN 72-HOURS FOLLOWING A RAINFALL EVENT, THEN A QUALIFIED PROFESSIONAL SHOULD ASSESS THE CONDITION OF THE FACILITY TO DETERMINE MEASURES REQUIRED TO RESTORE FILTRATION FUNCTION INCLUDING BUT NOT LIMITED TO REMOVAL AND REPLACEMENT OF WETLAND SOIL AND REPLANTING.
- VEGETATION SHOULD BE INSPECTED AT LEAST ANNUALLY, AND MAINTAINED IN HEALTHY CONDITION, INCLUDING PRUNING, REMOVAL AND REPLACEMENT OF DEAD OR DISEASED VEGETATION, AND REMOVAL OF INVASIVE SPECIES.

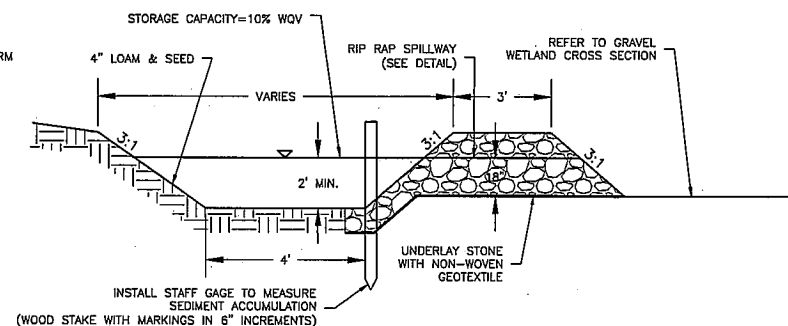


RIP RAP SPILLWAY TYPICAL CROSS SECTION DETAIL
N.T.S.

- NOTES:**
- RIP RAP SPILLWAYS ARE LOCATED AT SEDIMENT FOREBAY OUTLETS, BETWEEN CELL #1 AND CELL #2 OF GRAVEL WETLAND AND EMERGENCY SPILLWAY OF GRAVEL WETLAND.

RIP-RAP GRADATION

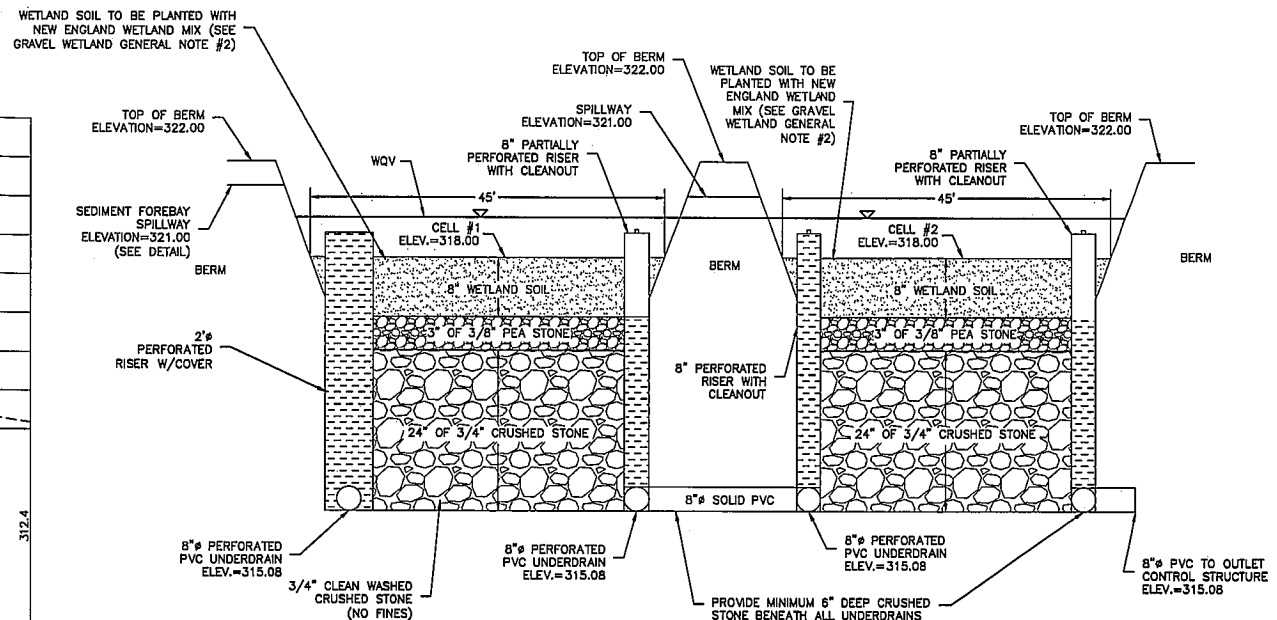
% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES)
100	6 TO 8
85	5.2 TO 7.2
50	4 TO 6
15	1.2 TO 2



SEDIMENT FOREBAY TYPICAL CROSS SECTION DETAIL
N.T.S.

NOTES:

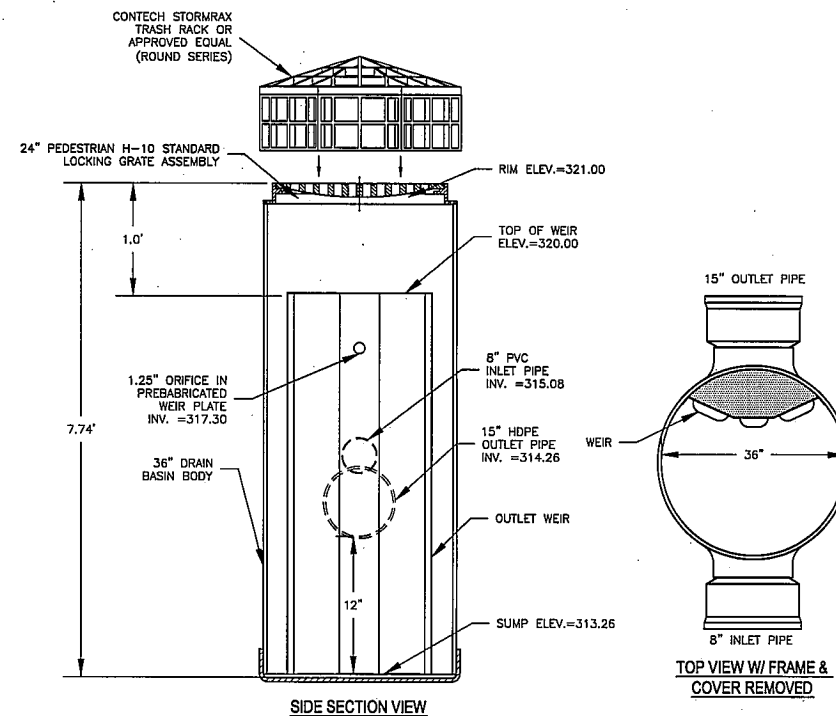
- REFER TO BERM CONSTRUCTION NOTES IN GRAVEL WETLAND DETAIL FOR BERM CONSTRUCTION REQUIREMENTS.
- REFER TO RIPRAP SPILLWAY CROSS SECTION DETAIL FOR SPILLWAY CONSTRUCTION REQUIREMENTS.
- THE SEDIMENT FOREBAY SHALL BE MOWED WITH THE REST OF THE SITES LAWN AREAS TO PROMOTE HEALTHY GROWTH AND PREVENT THE ENCROACHMENT OF WEEDS AND WOODY VEGETATION.
- INSTALL STAFF GAGE TO MEASURE SEDIMENT ACCUMULATION. SEDIMENT SHALL BE REMOVED AFTER SEDIMENT ACCUMULATES TO A DEPTH OF 1 FOOT.



GRAVEL WETLAND #1 CROSS SECTION
N.T.S.

GRAVEL WETLAND GENERAL NOTES:

- WETLAND SOIL MIX SHALL BE A SILT LOAM WITH A MINIMUM OF 15-20% ORGANIC CONTENT BY MASS. THE CLAY CONTENT SHALL NOT EXCEED 15% BY VOLUME. THE ORGANIC MATTER SHALL CONSIST OF DECIDUOUS LEAF COMPOST PROPERLY MATURED AND AT LEAST ONE YEAR OLD. THERE SHALL BE NO LEAF MULCH, COMPOSTED MIXED YARD DEBRIS, OR WOOD CHIPS.
- GRAVEL WETLAND BOTTOM TO BE PLANTED WITH NEW ENGLAND WETLAND MIX AVAILABLE FROM:
PIERSON NURSERIES INC.
24 BUZZELL ROAD
BIDDEFORD, ME 04005
(207)-499-4992



GRAVEL WETLAND OUTLET CONTROL STRUCTURE: 36 inch NYLOPLAST WEIR STRUCTURE DETAIL
N.T.S.

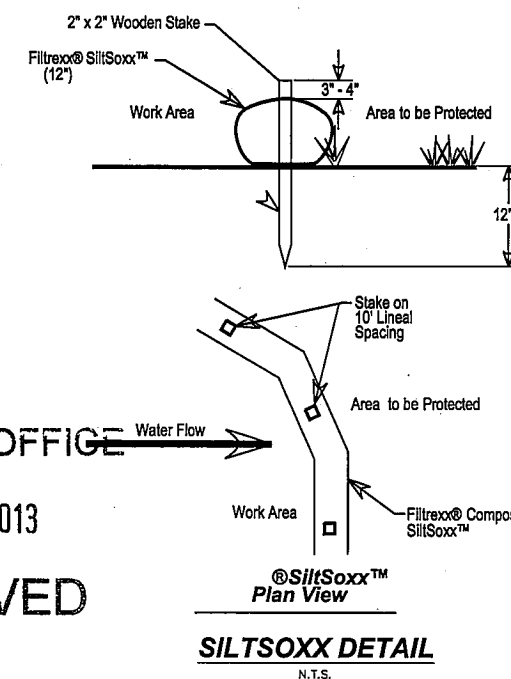
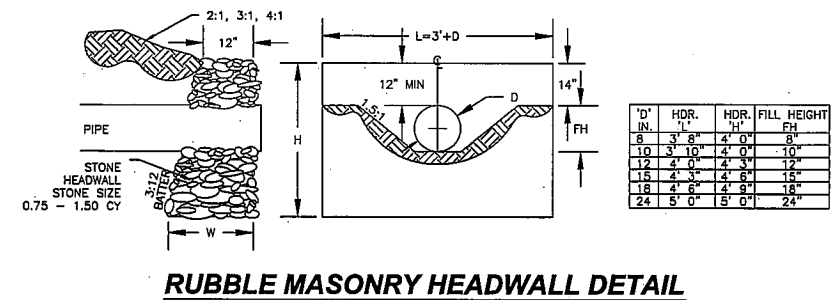
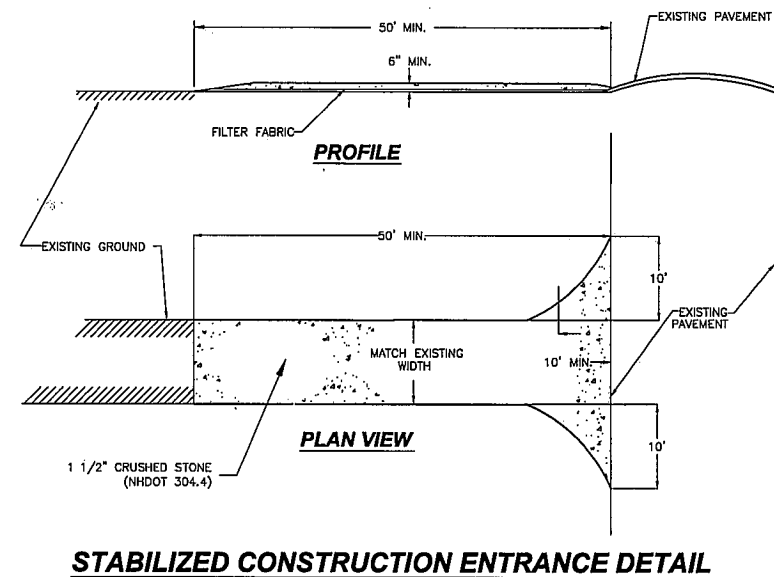
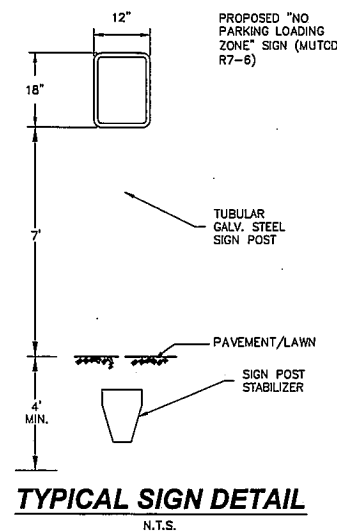
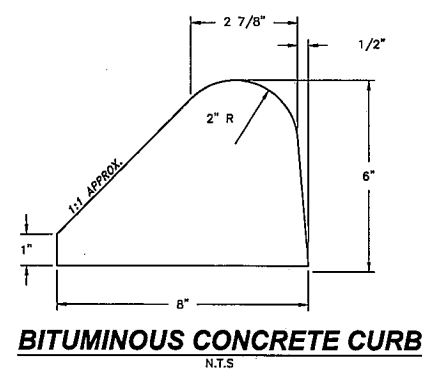
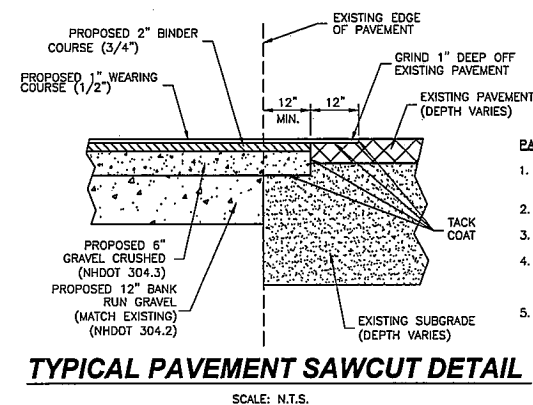
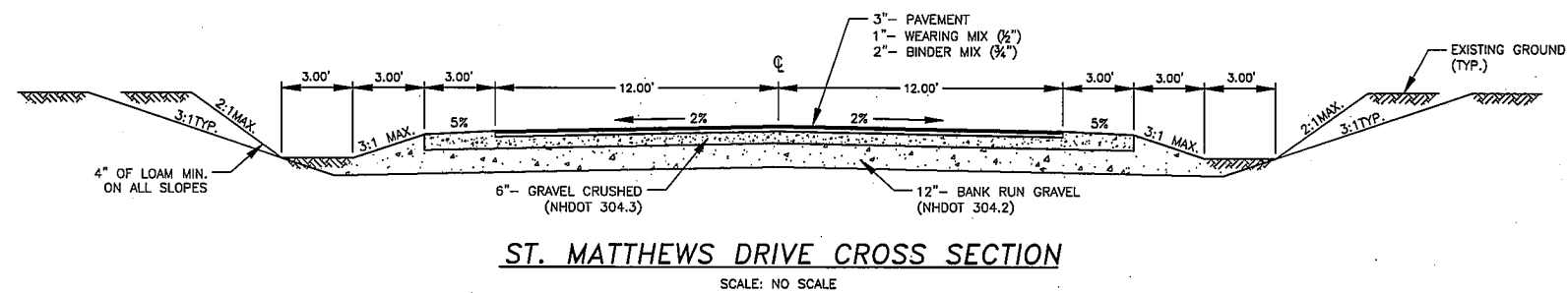
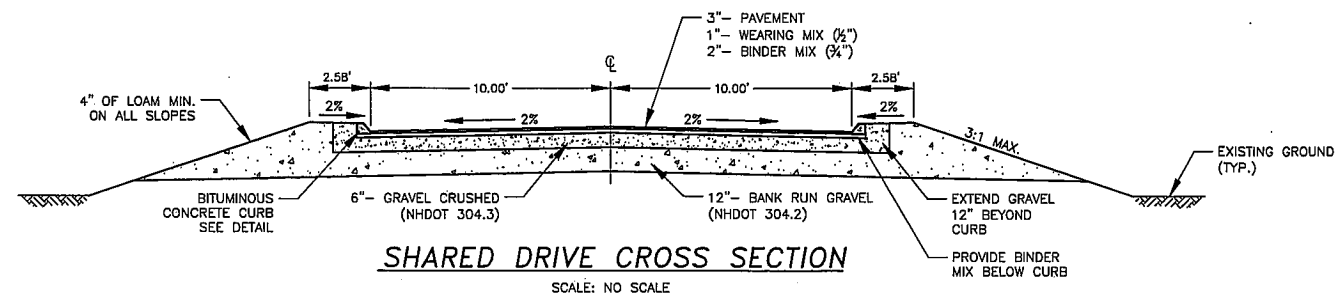
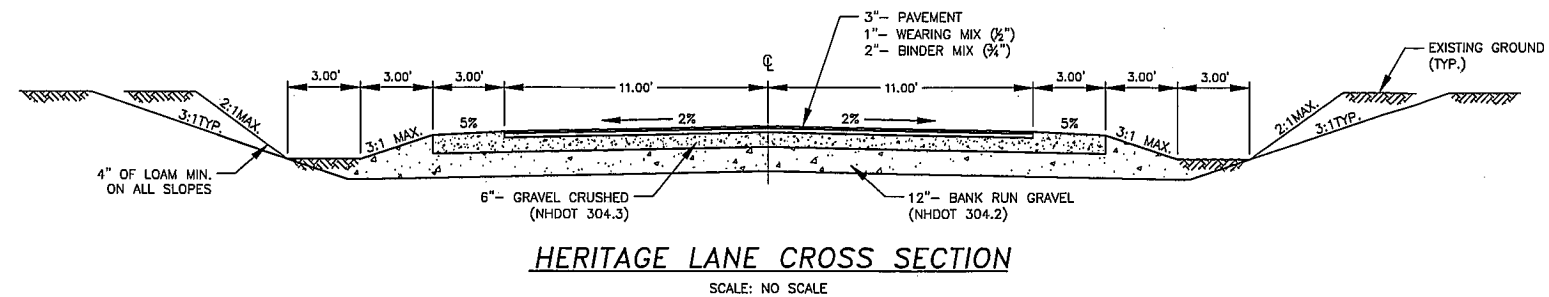
- NOTES:**
- PVC DRAIN BASIN TO BE NYLOPLAST 36 INCH WEIR STRUCTURE OR APPROVED EQUAL. FRAME AND COVER SHALL BE NYLOPLAST 24 INCH PEDESTAL H-10 STANDARD LOCKING GRATE ASSEMBLY OR APPROVED EQUAL.
 - FOR SALES, CONTACT:
HANCOR
GEOFF HUBBARD - (603) 988-7593
88 SOUTH STREET
PORTSMOUTH, NH 03801
 - TRASH RACK AVAILABLE FROM:
CONTECH
200 ENTERPRISE DR.
SCARBOROUGH, ME 04074
PHONE: 207-885-9830

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DATE:	4/29/13	SCALE:	AS SHOWN	DESIGNED BY:	MS/MJS	DRAWN BY:	MS	APPROVED BY:	MJS	DWG FILE:	
CONSTRUCTION DETAILS prepared for GERRIOR LANE TRUST THE HOMESTEAD SUBDIVISION PHASE II GERRIOR DRIVE BARRINGTON, NH											
MJS ENGINEERING, PC 5 FAIRBANK ST., P.O. BOX 359 BARRINGTON, NH 03801 PHONE: (603) 659-4075, FAX: (603) 659-4627 E-MAIL: HUBBARD@MJS-ENGINEERING.COM											
JOB: 11-060											
D2											



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NOTES:
1. SEE PLANS FOR SIGN PLACEMENT.

Notes:

1. All material to meet Filtrax® specifications .
2. Compost material to be dispersed on site up slope from protected area.

[illegible]



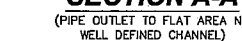
CONSTRUCTION SPECIFICATIONS:

1. STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.
2. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION, AIR AND WATER POLLUTION WILL BE MINIMIZED.
3. STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.

1. TEMPORARY GRADE STABILIZATION STRUCTURES SHOULD BE INSPECTED AFTER EACH STORM AND DAILY DURING PROLONGED STORM EVENTS. ANY DAMAGE TO THE STRUCTURES SHALL BE REPAIRED IMMEDIATELY.
2. PARTICULAR ATTENTION SHOULD BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE STRUCTURE.
3. WHEN REMOVING THE STRUCTURES, THE DISTURBED AREAS SHALL BE BROUGHT UP TO THE ORIGINAL CHANNEL, BED AND AREA PREPARED, SEEDED AND MOWN.
4. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT REACHES 1/2 THE ORIGINAL HEIGHT OF THE STRUCTURE.



1. CONSTRUCTION BE IN ACCORDANCE WITH PSNH CONSTRUCTION STANDARDS FOR NEW ELECTRICAL SERVICE WORK BY CONTRACTORS, MOST RECENT EDITION.
2. SELECT SAND BACKFILL SHALL CONSIST OF A FINE GRANULAR MATERIAL OF WHICH 100% SHALL PASS THROUGH A 1/4" SIEVE. EXCEPT NATURALLY OCCURRING SMOOTH ROUND PEBBLES NO GREATER THAN 3/8" IN DIAMETER ARE PERMITTED AS LONG AS THEIR TOTAL VOLUME PER CUBIC FOOT OF SAND DOES NOT EXCEED 1%. SAND SHALL BE COMPLETELY FREE OF FROZEN LUMPS, ROCKS, STONES, DEBRIS AND RUBBISH. BACKFILL SHALL BE THOROUGHLY COMPACTED IN 6" LIFTS.
3. CONDUIT SIZES TO BE 5" 3-PHASE PRIMARY AND 4" 3-PHASE SECONDARY. ALL CONDUIT SIZES TO BE VERIFIED BY PSNH.
4. ALL INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES AND ORDINANCES, AND WHERE APPLICABLE THE NATIONAL ELECTRIC CODE.



% OF WEIGHT SMALLER THAN THE GIVEN SIZE	SIZE OF STONE (INCHES)		
100	6	TO	8
85	5.2	TO	7.2
50	4	TO	6
15	1.2	TO	2

CONSTRUCTION CHECKLISTS

1. PLACE THE SUB-GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP-RAP TO THE GRADES SHOWN ON THE PLANS.
2. MINIMUM 6" SAND/GRAVEL BEDDING OR GEOTEXTILE FABRIC REQUIRED UNDER ALL ROCK RIP-RAP.
3. THE ROCK OR GRAVEL USED FOR FILTER OR RIP-RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
4. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF RIP-RAP. DAMAGED RIP-RAP SHALL BE REMOVED AND A REPAIR FABRIC OVERLAP SHALL BE PLACED OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED OR REPAIRS OR JOINING TWO (2) PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
5. STONE FOR THE RIP-RAP SHALL BE PLACED BY EQUIPMENT AND SHALL BE CONFORMING TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES. RUBBISH OR SIZE 20 AND SMALLER MATERIAL SHALL NOT BE ALLOWED TO REMAIN IN THE RIP-RAP.
6. PROTECTION WILL HAVE THE SAME GRADATION AND THICKNESS.

MAINTENANCE NOTICES

1. THE CHANNEL SHALL BE INSPECTED AND CLEANED ANNUALLY AND AFTER ANY MAJOR STORM EVENT. ANY EROSION OR DAMAGE TO THE RIP-RAP SHALL BE REPAIRED IMMEDIATELY.
2. THE CHANNEL IMMEDIATELY DOWNSTREAM FROM THE OUTLET SHOULD BE CHECKED TO SEE THAT NO EROSION IS OCCURRING.
3. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON.



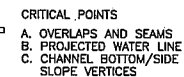
PIPE OUTLET	Wo	W	Lg	T	d50
HW #1	12.0'	60.0'	48.0'	42"	14"
#3	SEE PLAN FOR DIMENSIONS				
#4	6.0'	9.0'	15.0'	12"	6"
FES #1	3.0'	12.5'	8.0'	12"	4"
RIPRAP AREA #1	10.0'	10.0'	17.0'	12"	4"
GRAVEL WETLAND OUTLET					
RIPRAP AREA #2	28.25'	35.25'	16.0'	12"	4"



CONSTRUCTION NOTES:

1. REFER TO BERM CONSTRUCTION NOTES IN GRAVEL WETLAND DETAIL FOR BERM CONSTRUCTION REQUIREMENTS.
2. SWALE SHALL HAVE GREATER THAN 85% VEGETATIVE GROWTH PRIOR TO RECEIVING RUNOFF.

1. INSPECT ANNUALLY FOR EROSION, SEDIMENT ACCUMULATION, VEGETATION LOSS, AND PRESENCE OF INVASIVE SPECIES.
2. PERFORM PERIODIC MOWING. DO NOT MOW GRASS SHORTER THAN 4 INCHES.
3. REMOVE DEBRIS AND ACCUMULATED SEDIMENT BASED ON INSPECTION.
4. REPAIR ERODED AREAS, REMOVE INVASIVE SPECIES AND DEAD VEGETATION, AND RESEED WITH APPLICABLE GRASS MIX AS WARRANTED BY INSPECTION.



* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE REQUIRED.



NTS



REGULAR FLOW SILTSACK
(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

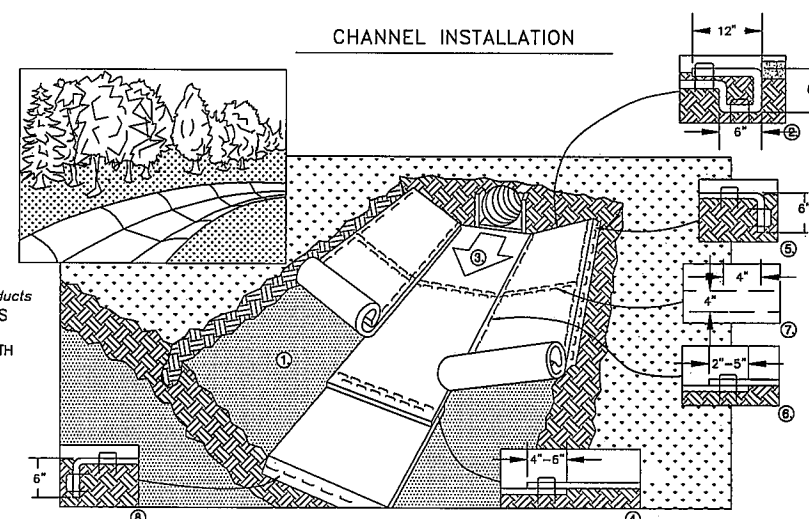
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	70 %
PUNCTURE	ASTM D-4833	NOTE 1 120 LBS
MULLION BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
AIR PERMEABILITY	ASTM D-4751	100 CM ³ /MIN
FLOW RATE	ASTM D-4491	40 GAL/MIN
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

1. GEOSYNTHETIC SEDIMENT FILTER TRAP SHALL BE 'REGULAR FLOW SILTSAK®' OR APPROVED EQUAL. SPECIFICATIONS FOR SILTSAK® ARE DETAILED.

2. FILTER TRAPS SHALL BE INSPECTED AFTER EVERY RAIN EVENT OF 0.25" OR GREATER AND SEDIMENTS SHALL BE REMOVED FROM TRAP WHEN SEDIMENT HAS REACHED TWO THIRDS OF THE DEPTH OF THE TRAP, OR IF PONDING OF WATER AT SURFACE BEGINS TO OCCUR. DO NOT PUNCTURE FILTER TRAP TO MITIGATE PONDING.


EROSION CONTROL *Products*
Guaranteed SOLUTIONS

14649 HIGHWAY 41 NORTH
EVANSVILLE, IN 47725
800-772-2040
www.nagreen.com



1. PREPARE SOIL BEFORE INSTALLING ROOT EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PARTIAL SIDE DOWNS.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) ACROSS THE WIDTH OF THE RECP's.
3. ROLL CENTER RECP'S IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH THE DOT'S CORRESPONDING TO THE STAPLE PATTERN. THE STAPLE PATTERN SHOULD BE PLACED THROUGH THE DOT'S CORRESPONDING TO THE STAPLE PATTERN.
4. PLACE CONSECUTIVE RECP'S END OVER END (SINGLE STYLE) WITH A 4" - 6" (10 CM - 15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE RECP'S.
5. FULL LENGTH EDGE OF RECP'S AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT RECP'S MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) (DEPENDING ON RECP'S TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 M - 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE RECP'S MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.

 <p>MJS ENGINEERING, PC 5 Railroad St., P.O. Box 359 HARRINGTON, NH 03043 Phone: (603) 659-4079, Fax: (603) 659-4627 E-MAIL: HJS@HJS-ENGINEERING.COM</p> <p>CIVIL ENVIRONMENTAL CONSULTING ENGINEERING</p>	<p>CONSTRUCTION DETAILS prepared for GERRIOR LANE TRUST</p> <p>THE HOMESTEAD SUBDIVISION PHASE II GERRIOR DRIVE HARRINGTON NH</p>		<p>DATE: 5/15/13 SCALE: AS SHOWN DESIGNED BY: MS/MJS DRAWN BY: MS APPROVED BY: MJS</p>		SEAL					
						1.	REVISED PER TOWN COMMENTS	7/1/13	MJS	
						0.	INITIAL SUBMISSION TO BARRINGTON PLANNING BOARD	5/15/13	MJS	
							REVISIONS	DATE	INT.	