

GENERAL INFORMATION

OWNER

TAX MAP PARCEL NO. 210-44/ 57
TRINITY CONSERVATION LLC
119 FLAGG ROAD
ROCHESTER NH 03839

APPLICANT

TRINITY CONSERVATION LLC
119 FLAGG ROAD
ROCHESTER NH 03839

PREPARED FOR

TRINITY CONSERVATION LLC
119 FLAGG ROAD
ROCHESTER NH 03839

RESOURCE LIST

PLANNING/
ZONING DEPARTMENT
BARRINGTON TOWN HALL
333 CALEF ROAD
BARRINGTON, NH 03825
(603) 664-0195
MARICA GASSES
DIRECTOR OF PLANNING

BUILDING DEPT

BARRINGTON TOWN HALL
333 CALEF ROAD
BARRINGTON, NH 03825
(603) 664-5183
THOMAS ABBOTT
CODE ENFORCEMENT OFFICER

HIGHWAY AND PUBLIC WORKS

HIGHWAY DEPARTMENT
226 SMOKE STREET
BARRINGTON, NH 03835
(603) 664-5379
PETER COOK
ROAD AGENT

POLICE DEPARTMENT

774 FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03835
(603) 664-7679
RICHARD P. CONWAY
CHIEF OF POLICE

FIRE DEPARTMENT

774 FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03835
(603) 664-2241
RICHARD WALKER
FIRE CHIEF

TRINITY CONSERVATION LLC
EXCAVATION SITE

GREEN HILL ROAD
BARRINGTON, NEW HAMPSHIRE

PROPERTY ABUTTERS LIST

210-42, 210-43, 210-41, 208-39,
208-38
NO LOT ID PER TOWN

219-72
TIMOTHY E. & SUSAN M. ESTES
366 LOS CERRITOS DR.
VALLEJO, CA 94589

219-73
MATTHEW & MICHELLE
MAGNUSSON
144 GREEN HILL RD.
BARRINGTON, NH 03825

219-74
PETER & CAROL SCHRIER
138 GREENHILL RD.
BARRINGTON, NH 03825

208-40.1, 208-23
ANN MARIE VITTORIO
104 HANSONVILLE ROAD
BARRINGTON, NH 03825

208-40.2
PETER J. TESSIER
5 HANSONVILLE RD.
GONIC, NH 03839

210-01
WILLIAM LEVESQUE
209 GREENHILL RD.
BARRINGTON, NH 03825

210-2
MARGARETHA
VANAALST-BARENDREGT
217 GREENHILL RD.
BARRINGTON, NH 03825

210-3
PROJECT LEASING INC.
PO BOX 381
BARRINGTON, NH 03825

210-4
CELIA BANNENBERG
PO BOX 381
BARRINGTON, NH 03825

210-45
GREGORY & SUSAN HALL
74 HANSONVILLE ROAD
BARRINGTON, NH 03825

210-48
KATHLEEN RYAN
54 HANSONVILLE RD.
BARRINGTON, NH 03825

210-54
LEROY & DEBRAH MYERS
278 GREENHILL RD.
BARRINGTON, NH 03825

210-55
EVE & SAMUEL FAULKNER
232 GREEN HILL RD.
BARRINGTON, NH 03825

210-56
JONATHAN DEWITT
PO BOX 398
BARRINGTON, NH 03825

210-58
EDWARD & JEAN DOTSON
204 GREENHILL RD.
BARRINGTON, NH 03825

210-59
LINDA K. & RUSSELL V.
BRACKETT
198 GREEN HILL RD.
BARRINGTON, NH 03825

219-70
GUILIO & NORMA FRANCESCHINI
188 GREEN HILL RD.
BARRINGTON, NH 03825

220-13
ELIZABETH DORAN HEALEY
15 CAHON WAY
BARRINGTON, NH 03825

259-75
DANA L. SR. & RACHEL J. JOY
116 HANSONVILLE RD.
ROCHESTER, NH 03839-4930

259-74
ROBIN H. SMITH & HARRY E.
PROULX
7 JESSICA DR.
ROCHESTER, NH 03839-4940

259-73
MICHAEL & DOROTHY GROULX
15 JESSICA DR.
ROCHESTER, NH 03839-4940

259-45
ROBERT J. & LINDA D. SKIBICKI
122 FLAGG RD.
ROCHESTER, NH 03839-4962

259-44
PHILIP L. & GERALDINE A.
PARADIS
REV. TR. TRUSTEES
118 FLAGG RD.
ROCHESTER, NH 03839-4919

261-111
CITY OF ROCHESTER
31 WAKEFIELD ST.
ROCHESTER, NH 03839

261-1
TRINITY CONSERVATION, LLC
119 FLAGG RD.
ROCHESTER, NH 03839

261-3
JOHN F. & LYDIA G.M.CUPP
70 CAHON WAY
BARRINGTON, NH 03825

261-25
LEO F. & MICHELLE A. BRODEUR
29 SUGAR BROOK ROAD
ROCHESTER, NH 03867

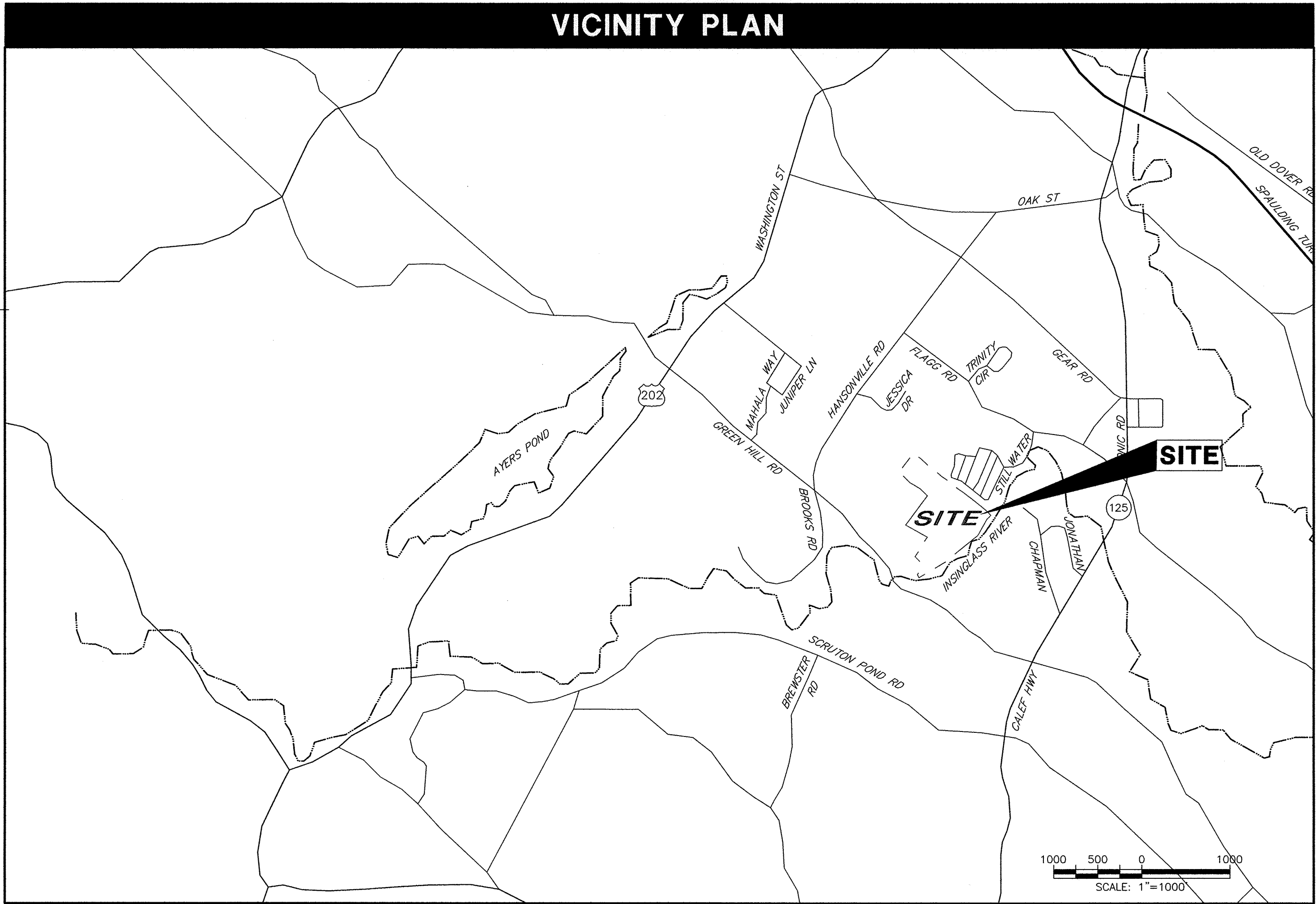
261-24
ELLEN WENTWORTH
31 SUGAR BROOK ROAD
ROCHESTER, NH 03867

261-23
SCOTT CAFASSO &
AMANDA WIDOLLETT
33 SUGAR BROOK ROAD
ROCHESTER, NH 03867

261-22
DEBORAH L. WORTH &
CHRISTOPHER P. BAUGHMAN
51 STILLWATER CIRCLE
ROCHESTER, NH 03869

261-21
ZVODAR FAMILY TRUST
KIMBERLY A. CRAMPSEY, TRUSTEE
29 DIANE MCCAIN DRIVE
BRENTWOOD, NH 03833

261-20
RODERICK J. & DONNA J. GADWAY
55 STILLWATER CIRCLE
ROCHESTER, NH 03869



VICINITY PLAN



Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

6	5/30/13	REVISE SHEETS 1-9	JH	JK	
3	1/17/13	PER DUBOIS & KING REVIEW	JH	JK	
1	12/10/12	ADD ABUTTER LIST	JH	JK	
REV.	DATE	DESCRIPTION	DR	CK	

INDEX OF SHEETS

SHEET SHEET TITLE

1	COVER SHEET
2	OVERALL SITE PLAN
3	PHASE 1 GRADING PLAN
4-6	ACCESS ROAD PLAN & PROFILE
7	PHASE 2 GRADING PLAN
8	OVERALL GRADING & RECLAMATION PLAN
9	FUTURE DEVELOPMENT PLAN
10-11	CONSTRUCTION DETAIL SHEETS
12	TEMPORARY SEDIMENT BASIN PLAN

PERMITS / APPROVALS

	NUMBER	APPROVED	EXPIRES
NHDES ALT. OF TERRAIN	PENDING		
NHDES WETLANDS IMPACT	PENDING		

PROPERTY ABUTTERS LIST (CONTINUED)

261-19
MARGARITA SUE ALVARADO
OFFICE OF PUBLIC GUARDIAN
2 PILLSBURY STREET, SUITE 400
CONCORD, NH 03301

261-18
JEFFREY SCOTT & HEATHER
MARIE ROYAL
59 STILLWATER CIRCLE
ROCHESTER, NH 03869

261-17
STEPHEN M. & TONYA B. LEONARD
61 STILLWATER CIRCLE
ROCHESTER, NH 03869

261-16
DWAYN E. & DENISE LOZIER
63 STILLWATER CIRCLE
ROCHESTER, NH 03869

261-15
THOMAS J. & NATHALIE GEARY
65 STILLWATER CIRCLE
ROCHESTER, NH 03869

SITE PLAN

TAX MAP 210 LOT 57

COVER SHEET

GRAVEL EXCAVATION OPERATION
GREEN HILL ROAD, BARRINGTON, NH

OWNED BY
TRINITY CONSERVATION, LLC
PREPARED FOR
TRINITY CONSERVATION, LLC

SCALE: AS NOTED

SEPTEMBER 20, 2012



Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

48 Constitution Drive
Bedford, NH 03110
Phone (603) 472-4488
Fax (603) 472-9747
www.tfmoran.com

F	47052.00	DR	JH	FB	—	SHEET 1 OF 12
E		CK	JK	CADFILE	47052-00 Site.dwg	

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6	05/30/13	REVISE DRIVEWAY LOCATION	JH	JK	
5	04/17/13	ADD NOTES	JH	JK	
4	02/21/13	ANNOTATE NORTHERLY BOUNDARY LINE	JAT	HGM	
3	01/17/13	PER DOUBOIS & KING REVIEW	JH	JK	
2	12/3/12	ADDITIONAL PROPERTY DATA	JH	JK	
1	10/10/12	REVISE NOTES AND PLAN VIEW	DSP	JK	
REV.		DESCRIPTION	DR	CK	

OPERATION & MAINTENANCE NOTES:

1. THE OPERATION IS PROPOSED TO BE RUN YEAR-ROUND, EXCLUDING MAJOR HOLIDAYS AND AS OTHERWISE INDICATED IN THIS LETTER. NORMAL BUSINESS HOURS ARE PROPOSED TO BE MONDAY THROUGH FRIDAY FROM 8:00AM TO 5:00 PM, WHERE THE BUSINESS WILL BE OPEN TO THE PUBLIC. ROUTINE MAINTENANCE MAY BE PERFORMED ON THE GROUNDS ON SATURDAY FROM 8:00 AM TO 5:00 PM; HOWEVER THE BUSINESS WILL BE CLOSED TO THE PUBLIC ON SATURDAY. ROUTINE MAINTENANCE SHALL CONSIST OF CLEANING, EQUIPMENT, RECLAMATION, INSPECTION AND MAINTENANCE OF STORM WATER TREATMENT AND CONVEYANCE PRACTICES, MAINTENANCE OF THE ACCESS ROADWAY AND RELATED ACTIVITIES.
2. BLASTING IS LIMITED TO ONE DAY PER TWO MONTHS. OPERATOR IS REQUIRED TO PROVIDE 48 HOURS NOTICE TO ABUTTERS IN ADVANCE OF BLASTING OPERATIONS.
3. THE USE OF ACOUSTICAL WALLS SHALL BE IMPLEMENTED DURING ANY CRUSHING. SOUND LEVELS SHALL BE RECORDED AT ALL PROPERTY LINES DURING CRUSHING OR USE OF MATERIALS PROCESSING EQUIPMENT. CRUSHING OR PROCESSING SHALL TEMPORARILY CEASE AND DESIST IF SOUND LEVELS EXCEED 75 DECIBELS AT THE PROPERTY LINE UNTIL ADDITIONAL SOUND MITIGATION PRACTICES ARE EMPLOYED.
4. BLASTING SHALL CONFORM TO THE NH DEPARTMENT OF SAFETY RULES ESTABLISHED PER SAF-C 1600. THE BLASTING CONTRACTOR WILL MONITOR GROUND VIBRATIONS PRODUCED BY EACH BLAST AND WILL PRODUCE PRINTED SEISMOGRAMS OF VIBRATIONS THAT ARE RECORDED IN UNITS OF PARTICLE VELOCITY IN INCHES/SECONDS. THESE PRINTED MEASUREMENTS WILL BE RETAINED BY THE BLASTING CONTRACTOR FOR A PERIOD THROUGH THE NEXT COMPLETED COMPLIANCE HEARING BEFORE THE PLANNING BOARD AND WILL BE AVAILABLE TO TOWN AND STATE OFFICIALS UPON REQUEST. BLASTING SHALL TEMPORARILY CEASE IF VIBRATION LEVELS EXCEED A PEAK OF 0.15 INCHES/SECOND ALONG THE CITY OF ROCHESTER PROPERTY LINE UNTIL ADDITIONAL VIBRATION MITIGATION PRACTICES ARE EMPLOYED.
5. DUST CONTROL WILL BE IMPLEMENTED AS NEEDED ONCE SITE GRADING HAS BEGUN AND DURING WINDY CONDITIONS (FORECASTED OR ACTUAL WIND CONDITIONS OF 20 MPH OR GREATER) WHILE SITE GRADING IS OCCURRING. SPRAYING OF POTABLE WATER AT A RATE OF 300 GALLONS PER ACRE OR LESS WILL BE PERFORMED BY A MOBILE PRESSURE-TYPE DISTRIBUTOR TRUCK NO MORE THAN THREE TIMES A DAY DURING THE MONTHS OF MAY THRU SEPTEMBER AND ONCE PER DAY DURING THE MONTHS OF OCTOBER THRU APRIL OR WHENEVER THE DRYNESS OF THE SOIL WARRANTS IT.
6. OPERATOR SHALL FOLLOW INSTALLATION AND MAINTENANCE SCHEDULE DETAILED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) DURING EXCAVATION ACTIVITIES, AND SHALL PREPARE AND POSSESS ON SITE AN OPERATIONS PLAN INCLUDING BUT NOT LIMITED TO SPILL PREVENTION, CONTROL AND CLEANUP MEASURES TO CONTROL THE USE AND STORAGE OF REGULATED SUBSTANCES. COPIES OF THE SWPPP INSPECTION AND MAINTENANCE LOGS SHALL BE KEPT ONSITE AT ALL TIMES. THESE LOGS SHALL BE AVAILABLE UPON REQUEST BY THE IRLAC FOR A QUARTERLY REVIEW. THE ISINGLASS RIVER LOCAL ADVISORY COMMITTEE SHALL BE NOTIFIED OF AND ALLOWED TO ATTEND ANY SWPPP INSPECTION.

BLASTING BMP's

- 1) IDENTIFY DRINKING WATER WELLS LOCATED WITHIN 2000 FEET OF THE PROPOSED BLASTING ACTIVITIES. DEVELOP A GROUNDWATER QUALITY SAMPLING PROGRAM TO MONITOR FOR NITRATE AND NITRITE EITHER IN THE DRINKING WATER SUPPLY WELLS OR IN OTHER WELLS THAT ARE REPRESENTATIVE OF THE DRINKING WATER SUPPLY WELLS IN THE AREA. THE PLAN MUST INCLUDE PRE AND POST BLAST WATER QUALITY MONITORING AND BE APPROVED BY NHDES PRIOR TO INITIATING BLASTING. THE GROUNDWATER SAMPLING PROGRAM MUST BE IMPLEMENTED ONCE APPROVED BY NHDES.
- 2) THE FOLLOWING BEST MANAGEMENT PROCEDURES FOR BLASTING SHALL BE COMPLIED WITH:
 - (1) LOADING PRACTICES. THE FOLLOWING BLASTHOLE LOADING PRACTICES TO MINIMIZE ENVIRONMENTAL EFFECTS SHALL BE FOLLOWED:
 - (A) DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE BLASTER. THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAVITIES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS.
 - (B) EXPLOSIVE PRODUCTS SHALL BE MANAGED ON-SITE SO THAT THEY ARE EITHER USED IN THE BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR PLACED IN SECURE CONTAINERS FOR OFF-SITE DISPOSAL.
 - (C) SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED UP AND RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF-SITE DISPOSAL.
 - (D) LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT IN THE BLASTHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED.
 - (E) LOADING EQUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE ENVIRONMENT.
 - (F) EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN RISE NEED TO BE ATTENDED TO.
 - (2) EXPLOSIVE SELECTION. THE FOLLOWING BMPs SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR GROUNDWATER CONTAMINATION WHEN EXPLOSIVES ARE USED:
 - (A) EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT ARE APPROPRIATE FOR SITE CONDITIONS AND SAFE BLAST EXECUTION.
 - (B) EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT HAVE THE APPROPRIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT TO MINIMIZE THE POTENTIAL FOR HAZARDOUS EFFECT OF THE PRODUCT UPON GROUNDWATER.
 - (3) PREVENTION OF MISFIRES. APPROPRIATE PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO PREVENT MISFIRES.
 - (4) MUCK PILE MANAGEMENT. MUCK PILES (THE BLASTED PIECES OF ROCK) AND ROCK PILES SHALL BE MANAGED IN A MANNER TO REDUCE THE POTENTIAL FOR CONTAMINATION BY IMPLEMENTING THE FOLLOWING MEASURES:
 - (A) REMOVE THE MUCK PILE FROM THE BLAST AREA AS SOON AS REASONABLY POSSIBLE.
 - (B) MANAGE THE INTERACTION OF BLASTED ROCK PILES AND STORMWATER TO PREVENT CONTAMINATION OF WATER SUPPLY WELLS OR SURFACE WATER.
 - (5) SPILL PREVENTION MEASURES AND SPILL MITIGATION. SPILL PREVENTION AND SPILL MITIGATION MEASURES SHALL BE IMPLEMENTED TO PREVENT THE RELEASE OF FUEL AND OTHER RELATED SUBSTANCES TO THE ENVIRONMENT. THE MEASURES SHALL INCLUDE AT A MINIMUM:
 - (A) THE FUEL STORAGE REQUIREMENTS SHALL INCLUDE:
 1. STORAGE OF REGULATED SUBSTANCES ON AN IMPERVIOUS SURFACE;
 2. SECURE STORAGE AREAS AGAINST UNAUTHORIZED ENTRY;
 3. LABEL REGULATED CONTAINERS CLEARLY AND VISIBLY;
 4. INSPECT STORAGE AREAS WEEKLY;
 5. COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS;
 6. WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS; AND
 7. SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE. EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
 - (B) THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
 1. EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED;
 2. PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS;
 3. HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS;
 4. USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES; AND
 5. PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.
 - (C) THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
 - (D) FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT WILL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES [NOTE THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT" OR ITS SUCCESSOR DOCUMENT. (SEE [HTTP://DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIP/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF](http://DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIP/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF))

BLAST PLAN

(SPECIFICATIONS PROVIDED BY MAINE DRILLING & BLASTING)
PATTERN (BURDEN & SPACING): 9"x 9"
BOREHOLE SIZE: 4"
AVG. HOLE DEPTH (CUT + SUB DRILL): 40'
EXPLOSIVE TYPE: BULK EMULSION
EXPLOSIVES LOAD: 34'
STEMMING LOAD: 5'-8"
YARDS/BOREHOLE (MINUS SUB DRILL): 111 CU/YD.
TOTAL YARDS (INCLUDING SUB DRILL): 120 CU/YD.
MAX POUNDS PER BOREHOLE: 235/24 LBS.
POWDER FACTOR: 1.96 LBS. /YD.



CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION

PHASING NOTE

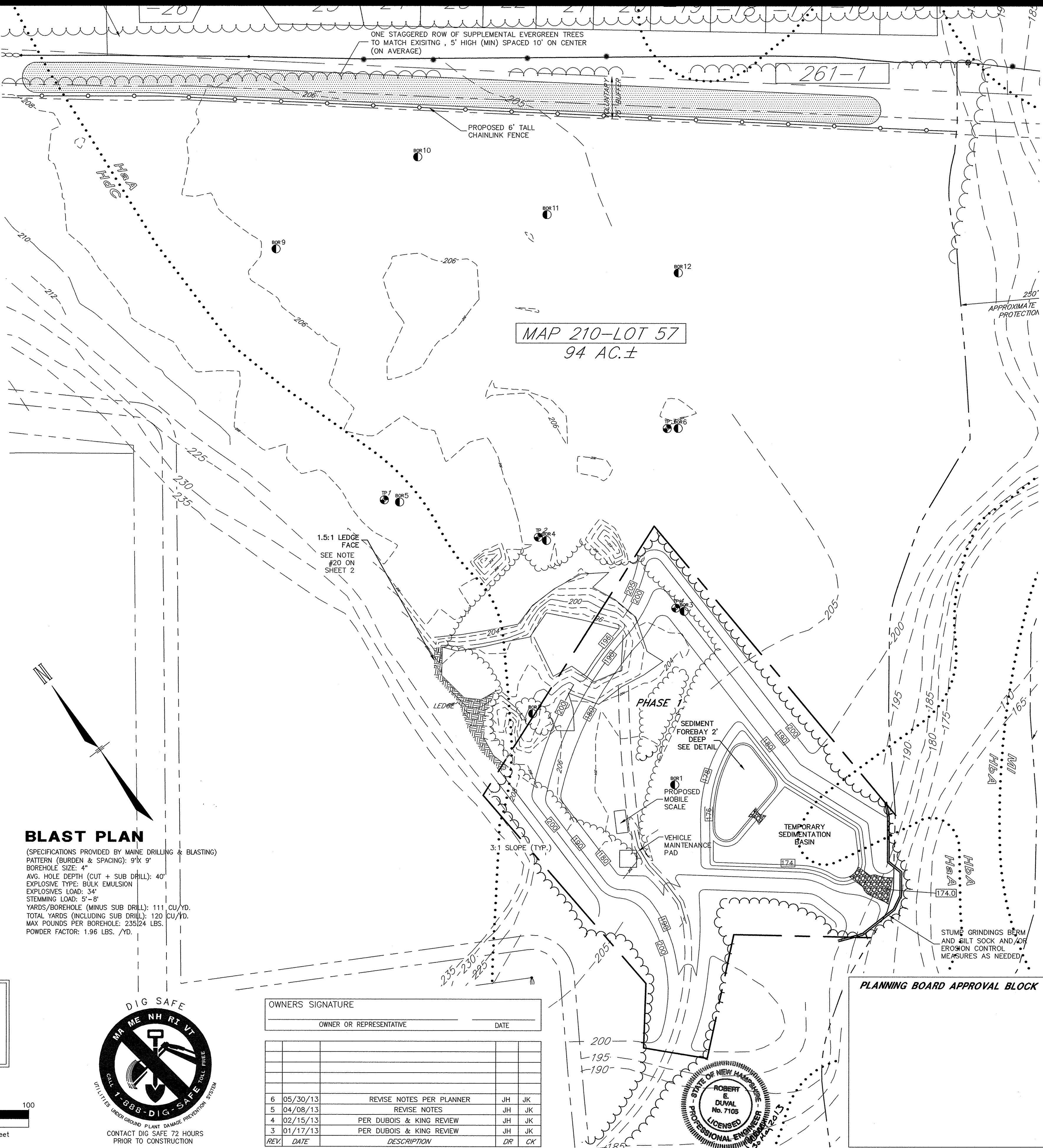
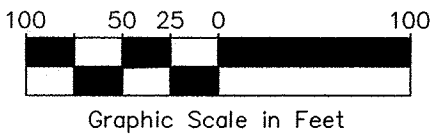
THE GRAVEL EXCAVATION OPERATION WILL BE PERFORMED SO AS TO ONLY DISTURB 10 ACRES AT A TIME. THE AREA COMPLETED WILL BE STABILIZED WITH GRASS PRIOR TO CLEARING, GRUBBING AND EXCAVATING THE NEXT PHASE AREA. AREAS SHOWN ARE AN EXAMPLE OF POSSIBLE PHASING, BUT THE OPERATOR MAY VARY PHASING SEQUENCE (WHILE ONLY DISTURBING 10 ACRES AT ANY GIVEN TIME).

THE OPERATOR SHALL UPGRADE THE ENTRANCE DRIVEWAY AS SHOWN PRIOR TO BEGINNING THE GRAVEL EXCAVATION OPERATION, THEN BEGIN THE OPERATION IN THE EXISTING OPEN AREA (PHASE 1). A SEDIMENTATION BASIN OR OTHER DRAINAGE SYSTEM SHALL BE PROVIDED TO TREAT RUNOFF PRIOR TO LEAVING THE PROJECT AREA.

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NOTES

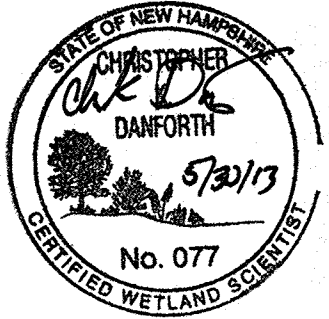
1. THE PURPOSE OF THIS PLAN IS TO SHOW PHASE1 (10 AC.) EXCAVATION OF THE SITE.
2. TOPOGRAPHY SHOWN IS A COMPILATION OF GROUND SURVEY BY THIS OFFICE AND INFORMATION TAKEN FROM THE REFERENCE PLAN. GROUND SURVEY DATUM IS NAD 88 COORS.
3. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY TFMORAN, INC., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE SITE AND ALL EXISTING CONDITIONS SURROUNDING IT AND THEREON. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF HIS INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
6. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES.
7. IN THE EVENT OF A CONFLICT BETWEEN PLANS, SPECIFICATIONS, AND DETAILS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION AND NOTIFICATION SHALL BE GIVEN TO THE TOWN.
8. IF CONDITIONS AT THE SITE ARE DIFFERENT THAN SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDINGS WITH THE AFFECTED WORK.
9. THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. TFMORAN INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-COMFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
10. TFMORAN INC. ASSUMES NO LIABILITY FOR WORK PERFORMED WITHOUT AN ACCEPTABLE PROGRAM OF TESTING AND INSPECTION AS APPROVED BY THE ENGINEER OF RECORD.
11. WARM SEASON GRASS MIX SHALL BE USED TO RECLAIM THE FLOOR OF THE EXCAVATION SITE. SPECIFICATION FOR WARM SEASON GRASS MIX IS LOCATED ON SHEET 10 OF THIS PLAN SET. EMBANKMENTS SHALL BE SEEDED WITH USDA CONSERVATION SERVICE MIX B. SPECIFICATIONS FOR CONSERVATION MIX B ARE LOCATED ON SHEET 10 OF THIS PLAN SET. NOTICE SHALL BE GIVEN TO THE TOWN ENGINEER.
12. PERMANENT AND TEMPORARY EMBANKMENTS THAT ARE NOT ACTIVELY BEING WORKED ON SHALL BE STABILIZED WITH LOAM, SEED AND NORTH AMERICAN GREEN MATTING.
13. OPERATOR/EXCAVATOR SHALL OBSERVE WATER LEVEL IN MONITORING WELLS IN MARCH, APRIL AND OCTOBER ANNUALLY. FINAL GRADES SHALL BE ADJUSTED AS NECESSARY TO PROVIDE 4 FEET (MIN.) SEPARATION ABOVE WATER TABLE.
14. WHERE LEDGE IS ENCOUNTERED AT DESIGN FINISH GRADE OPERATOR SHALL OVERBLAST AND BACKFILL TO DESIGN FINISH GRADES USING OVERBURDEN AND/OR OTHER MATERIAL DETERMINED BY ENGINEER. NOTICE SHALL BE GIVEN TO TOWN ENGINEER.
15. NO OUTSIDE MATERIAL SHALL BE INTRODUCED TO THE SITE WITHOUT PRIOR APPROVAL BY THE OPERATOR'S ENVIRONMENTAL CONSULTANT AND NOTIFICATION PROVIDED TO THE TOWN OF BARRINGTON LAND USE OFFICE.
16. OPERATOR SHALL PROVIDE A COPY OF THE NHDES APPROVED GROUND WATER QUALITY SAMPLING PROGRAM PRIOR TO COMMENSMENT OF BLASTING.
17. TRUCKS ARE PROHIBITED FROM STACKING PRIOR TO 7:45 A.M.
18. ALL TRUCKS OR TRACTOR TRAILORS WITH A GROSS VEHICLE WEIGHT EXCEEDING 26,100 LBS SHALL ACCESS AND EXIT THE SITE FROM THE EASTERLY PORTION OF GREEN HILL ROAD.
19. ALL LOADED TRUCKS ENTERING AND EXITING THE SITE SHALL BE WEIGHED BY A CERTIFIED SCALE AND ALL MATERIALS ARE TO BE SOLD BY WEIGHT/VOLUME.

PROPOSED	LEGEND	EXISTING
	SILT SOCK/STUMP GRINDINGS BERM	
	INDEX CONTOUR	
	INTERMEDIATE CONTOUR	
	S.C.S. SOILS BOUNDARY	
	TREELINE	
	RIP-RAP	

WETLAND CERTIFICATION

WETLANDS SHOWN ON THIS PLAN WERE DELINEATED DURING AUGUST OF 2012 BY CHRISTOPHER K. DANFORTH OF TFMORAN, INC. CWS #077. THE WETLANDS WERE DELINEATED ACCORDING TO THE 1987 ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL AND THE INTERIM REGIONAL SUPPLEMENT NE REGIONAL. DOMINANT HYDRIC SOIL CONDITIONS WITHIN THE WETLANDS WERE IDENTIFIED UTILIZING THE CRITERIA OF "FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND", VERSION 3, APRIL 2004.

DOMINANCE OF WETLAND VEGETATION WAS ASSESSED UTILIZING THE "NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: 1988 NORTHEAST" (REGION 1) (PORTER B. REED, JR.) THE AREA SURVEYED FOR WETLANDS INCLUDES LANDS ADJACENT TO THE GRAVEL ROAD, THE EXISTING GRAVEL PIT, AND THE LAND BETWEEN THE OPEN AREA AND THE ISINGLASS RIVER. CONTIGUOUS AND ISOLATED POCKET WETLANDS WERE DELINEATED WITHIN THE 250 FOOT SHORELAND PROTECTION BUFFER TO THE ISINGLASS RIVER THAT ARE NOT DEPICTED HEREON.

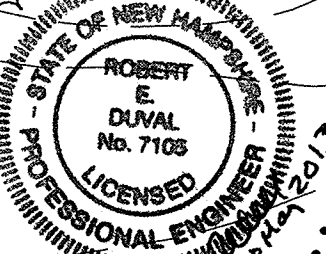


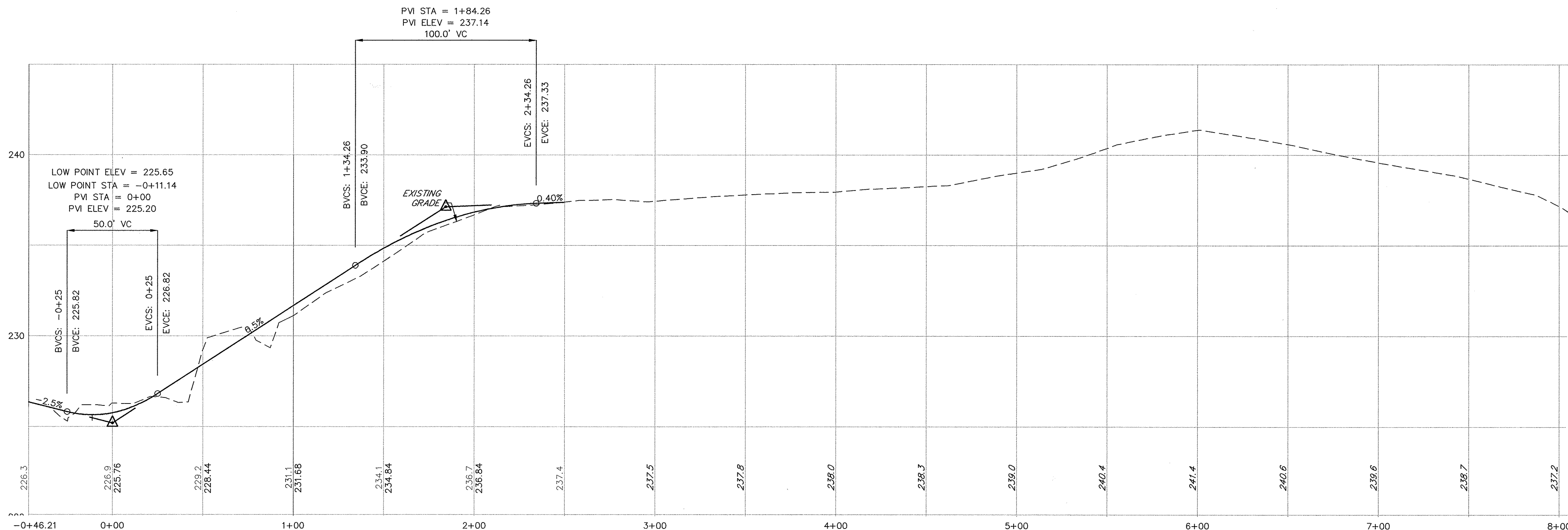
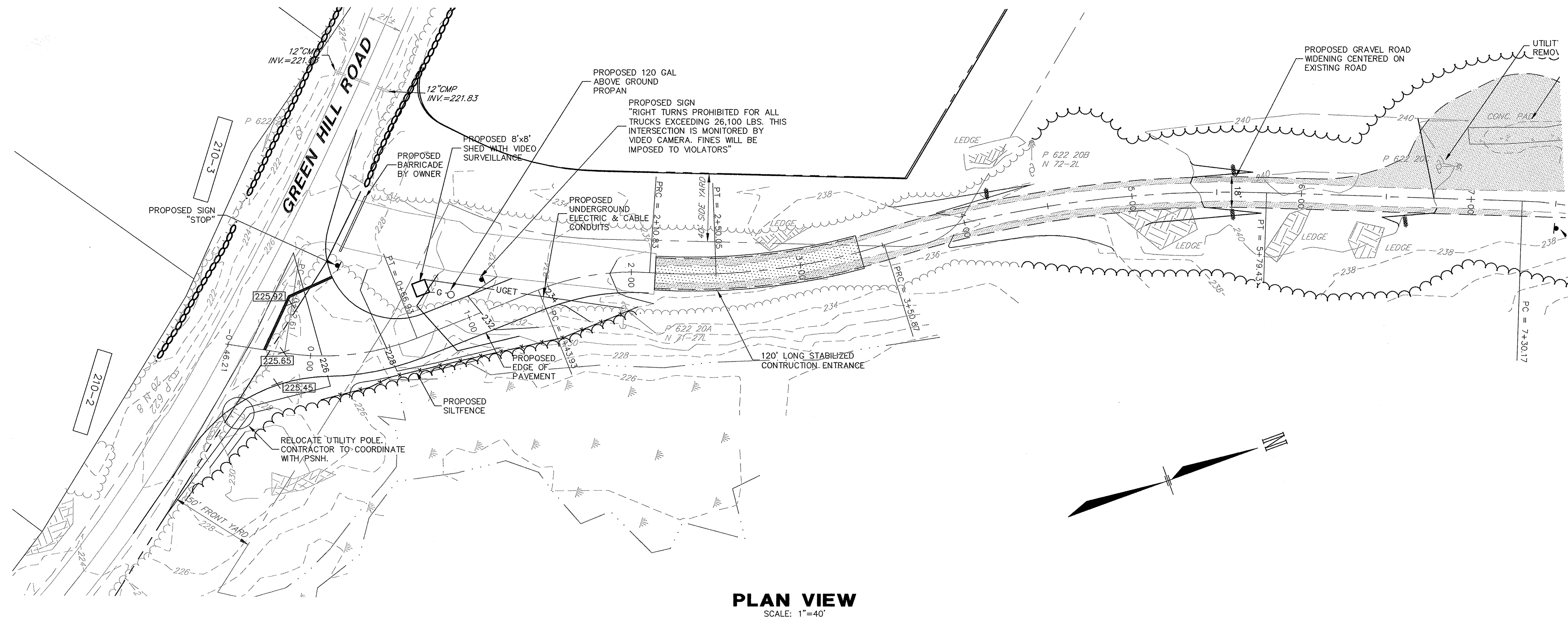
TAX MAP 210 LOT 57
PHASE 1 GRADING PLAN
GRAVEL EXCAVATION OPERATION
GREEN HILL ROAD, BARRINGTON, NH
OWNED BY
TRINITY CONSERVATION, LLC
PREPARED FOR
TRINITY CONSERVATION, LLC
SCALE: 1"=100'
SEPTEMBER 20, 2012

Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

48 Constitution Drive
Bedford, NH 03110
Phone (603) 472-4488
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I		OK	JK	CADFILE	47052-00 Site	





WETLAND CERTIFICATION

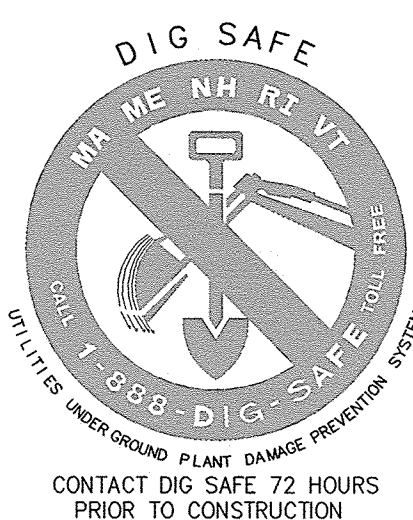
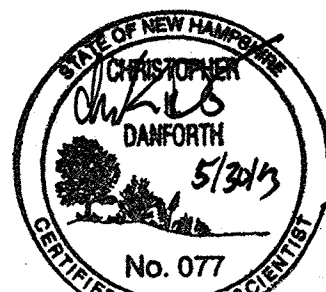
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PROFILE

SCALE: 1"=40' HORIZ.
1"=4' VERT.



NOTES

- ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF BARRINGTON, AND SHALL BE BUILT IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE SITE AND ALL EXISTING CONDITIONS SURROUNDING IT AND THEREON.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THESE PLANS, PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION BE AGREED TO BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT "DIGSAFE" (888-344-7233) AT LEAST 72 HOURS BEFORE DIGGING.
- THE OPERATOR IS RESPONSIBLE FOR CONTACTING A GEOTECHNICAL ENGINEER TO EVALUATE ANY GROUNDWATER ISSUES ONSITE. THE GEOTECHNICAL ENGINEER IS RESPONSIBLE FOR DETERMINING THE METHODS TO ADDRESS ANY GROUNDWATER ISSUES. NOTICE OF ANY ISSUES SHALL BE GIVEN TO THE TOWN LAND USE DEPARTMENT.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA AND SHALL COORDINATE AS NECESSARY WITH THE UTILITY COMPANIES OF SAID UTILITIES. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
- ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS, AND SHALL MEET LOCAL STANDARDS AND THE REQUIREMENTS OF THE LATEST NHOOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION AND THE N.H.D.O.T. STANDARD STRUCTURE DRAWINGS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL DEVICES NECESSARY TO CONTROL EROSION THROUGHOUT THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE NHDES/EPA STANDARDS. THE DETAILS PROVIDED REPRESENT MINIMUM PERMITTED CONTROLS ONLY AND SHALL BE SUPPLEMENTED BY THE CONTRACTOR AS NECESSARY.
- ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
- THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES, AND PONDS PRIOR TO DIRECTING STORM WATER RUN-OFF TO THEM.
- LIMITS OF WORK ARE SHOWN AS APPROXIMATE. THE CONTRACTOR SHALL COORDINATE ALL WORK TO PROVIDE SMOOTH TRANSITIONS. THIS INCLUDES GRADING, PAVEMENT, CURBING, SIDEWALKS AND ALIGNMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE CONDITIONS AT THE SITE. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE ENGINEER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK THE ACCURACY OF THE TOPOGRAPHY AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO ANY EARTHWORK BEING PERFORMED ON THE SITE. NO CLAIM FOR EXTRA WORK WILL BE CONSIDERED FOR PAYMENT AFTER EARTHWORK HAS COMMENCED.
- IN THE EVENT OF A CONFLICT BETWEEN PLANS, SPECIFICATIONS, AND DETAILS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
- IF CONDITIONS AT THE SITE ARE DIFFERENT THAN SHOWN THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
- THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. TFMORAN INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-CONFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- TFMORAN INC. ASSUMES NO LIABILITY FOR WORK PERFORMED WITHOUT AN ACCEPTABLE PROGRAM OF TESTING AND INSPECTION AS APPROVED BY THE ENGINEER OF RECORD.
- FINAL DESIGN OF GAS SYSTEM SHALL BE DETERMINED BY GAS COMPANY PRIOR TO CONSTRUCTION.
- FINAL DESIGN OF ELECTRICAL CONDUIT SHALL BE DETERMINED BY PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE PRIOR TO CONSTRUCTION.
- FINAL DESIGN OF CABLE/INTERNET CONDUIT SHALL BE DETERMINED BY METROCAST CABLEVISION PRIOR TO CONSTRUCTION.

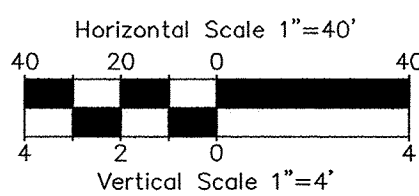
LEGEND

PROPOSED	EXISTING
IRON PIPE	○ I/P
IRON PIN	○ I/Pin or I/P
DRILL HOLE	● D/H
EDGE OF PAVEMENT	—
EDGE OF GRAVEL	- - -
SILT SOCK/STUMP GRINDINGS BERM	—
SIGN	—
UTILITY POLE	—
TESTPIT	—
SPOT GRADE	—
INDEX CONTOUR	—
INTERMEDIATE CONTOUR	—
EDGE OF WETLAND	—
BROOK, STREAM OR RIVER	—
S.C.S. SOILS BOUNDARY	—
TREELINE	—
RIP-RAP	—

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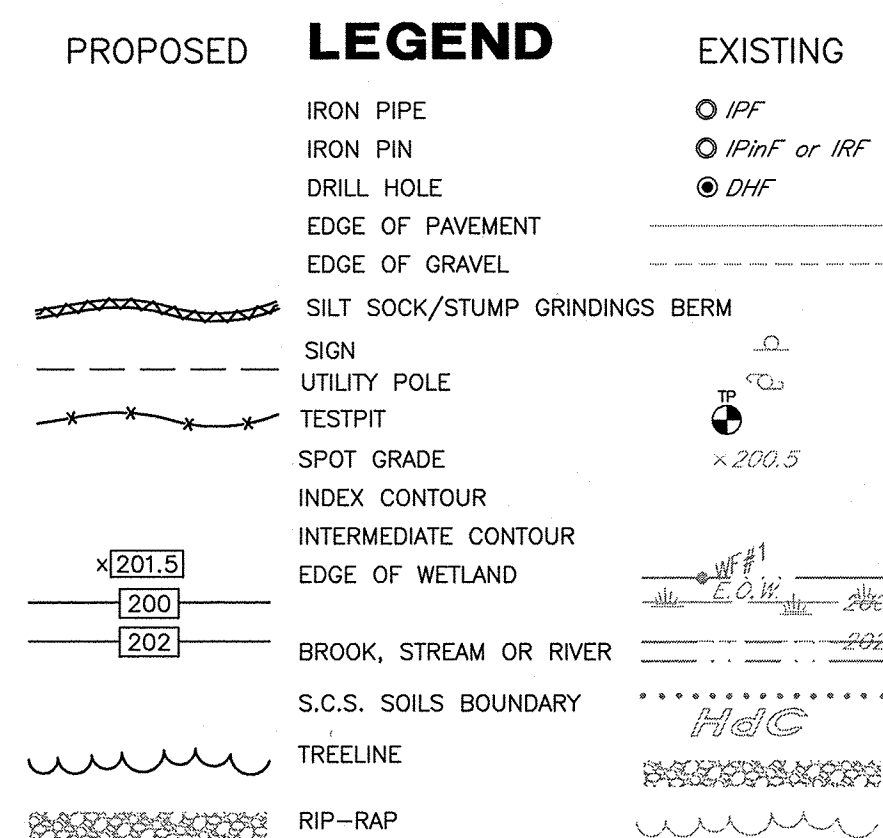
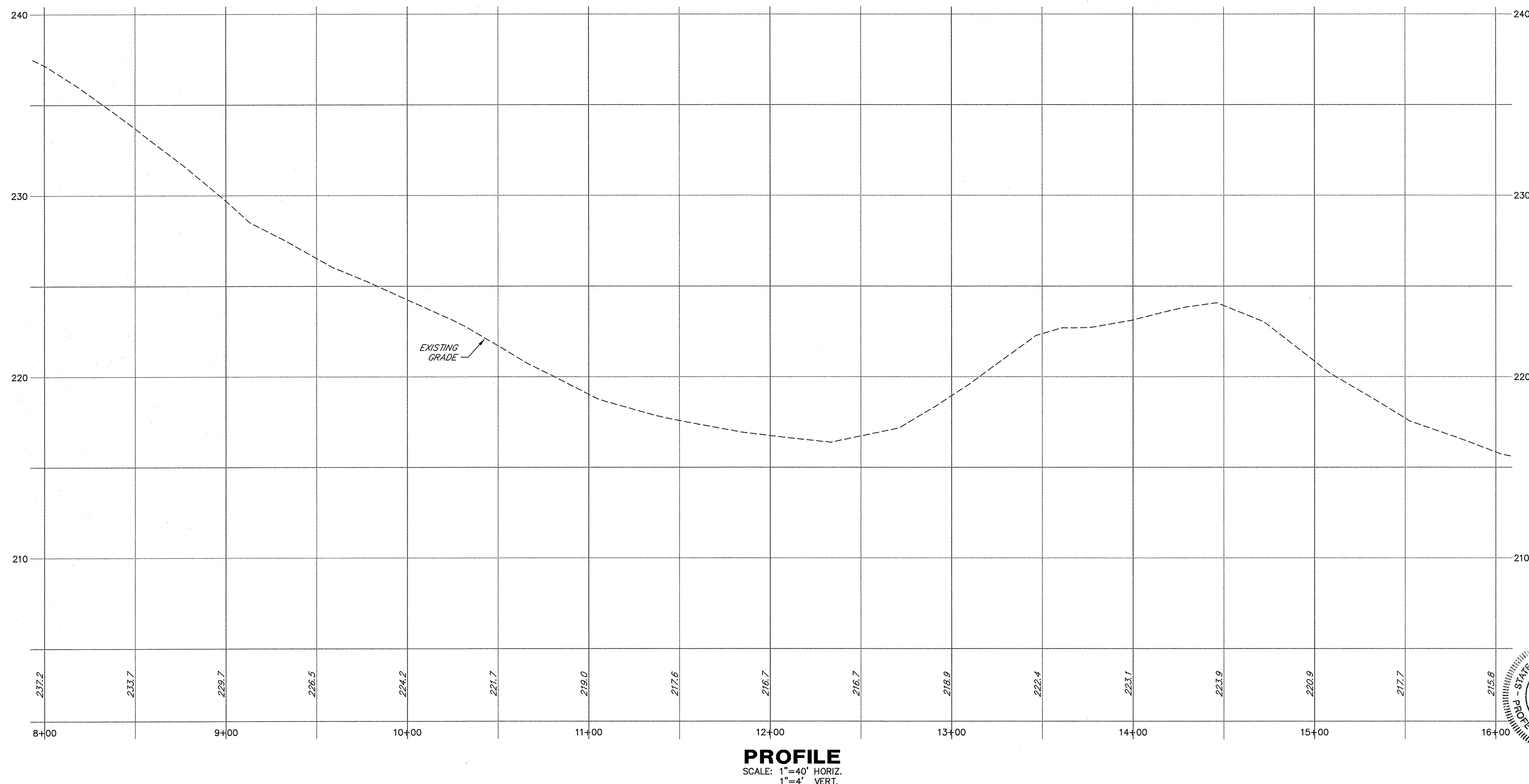
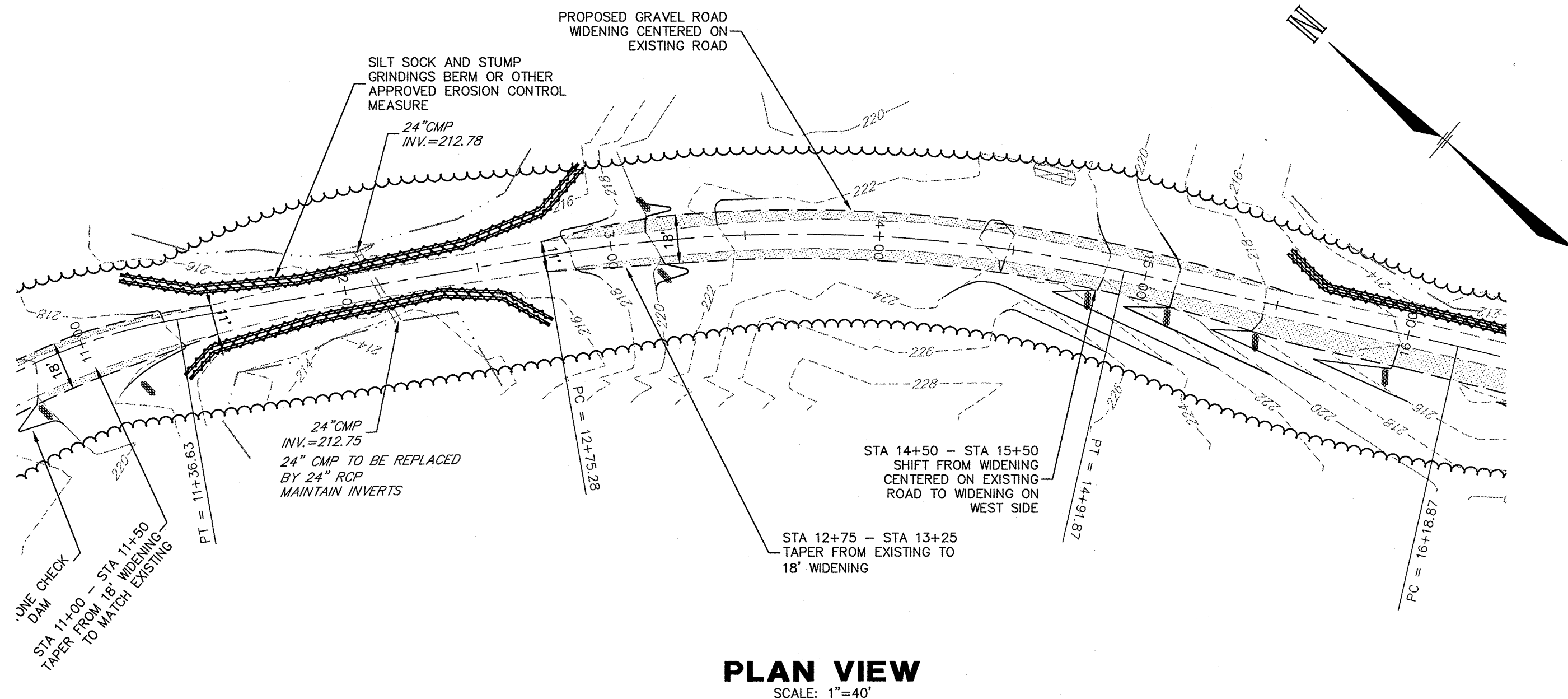
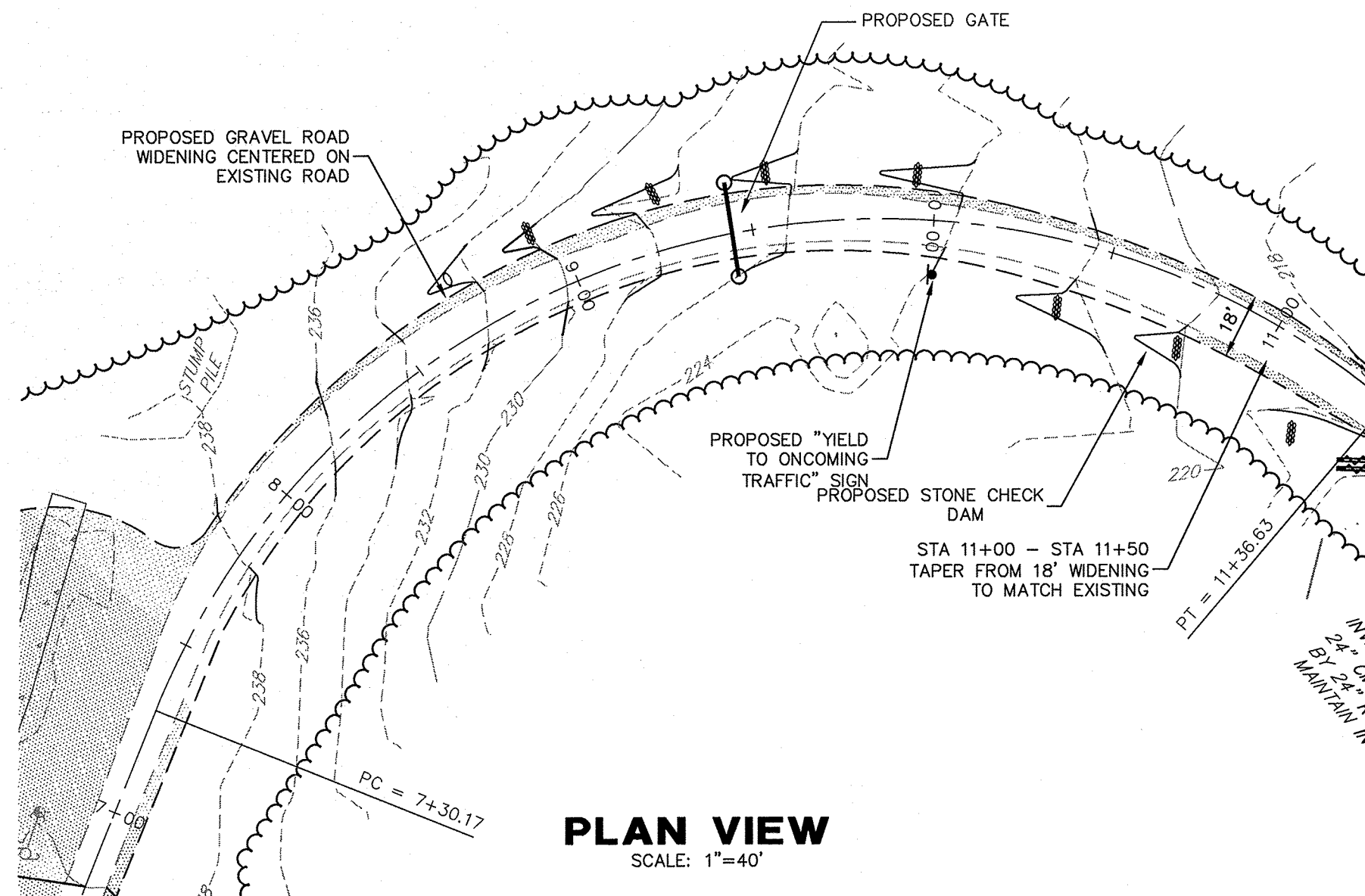
REV	DATE	DESCRIPTION	DR	CK
6	05/30/13	REVISE DRIVEWAY LOCATION	JH	JK
5	04/08/13	REVISE NOTES; ADD SHED	JH	JK
3	01/17/13	PER DUBOIS & KING REVIEW	JH	JK

TAX MAP 210 LOT 57
ACCESS ROADWAY PLAN & PROFILE
GRAVEL EXCAVATION OPERATION
GREEN HILL ROAD, BARRINGTON, NH
OWNED BY
TRINITY CONSERVATION, LLC
PREPARED FOR
TRINITY CONSERVATION, LLC
SCALE: AS NOTED
SEPTEMBER 20, 2012

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CK JK CADFILE 47052-00 Site
SHEET 4 OF 12

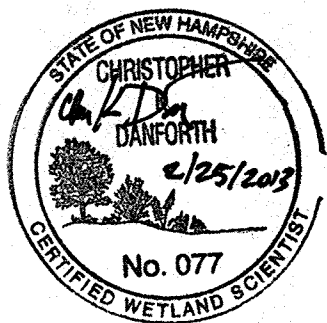


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TAX MAP 210 LOT 57

ACCESS ROADWAY PLAN & PROFILE

GRAVEL EXCAVATION OPERATION

GREEN HILL ROAD, BARRINGTON, NH

OWNED BY
TRINITY CONSERVATION, LLC

PREPARED FOR
TRINITY CONSERVATION, LLC

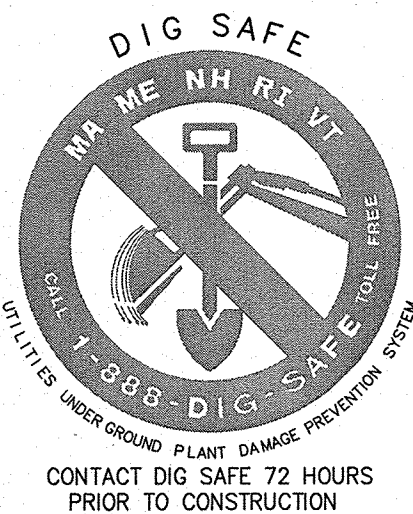
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3	01/17/13	PER DUBOIS & KING REVIEW	JH	JK

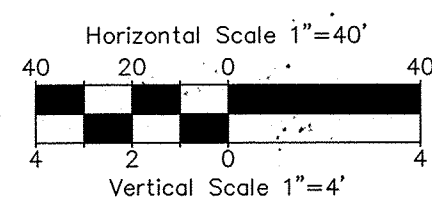
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		CK	JK	CADFILE	47052-00 Site	

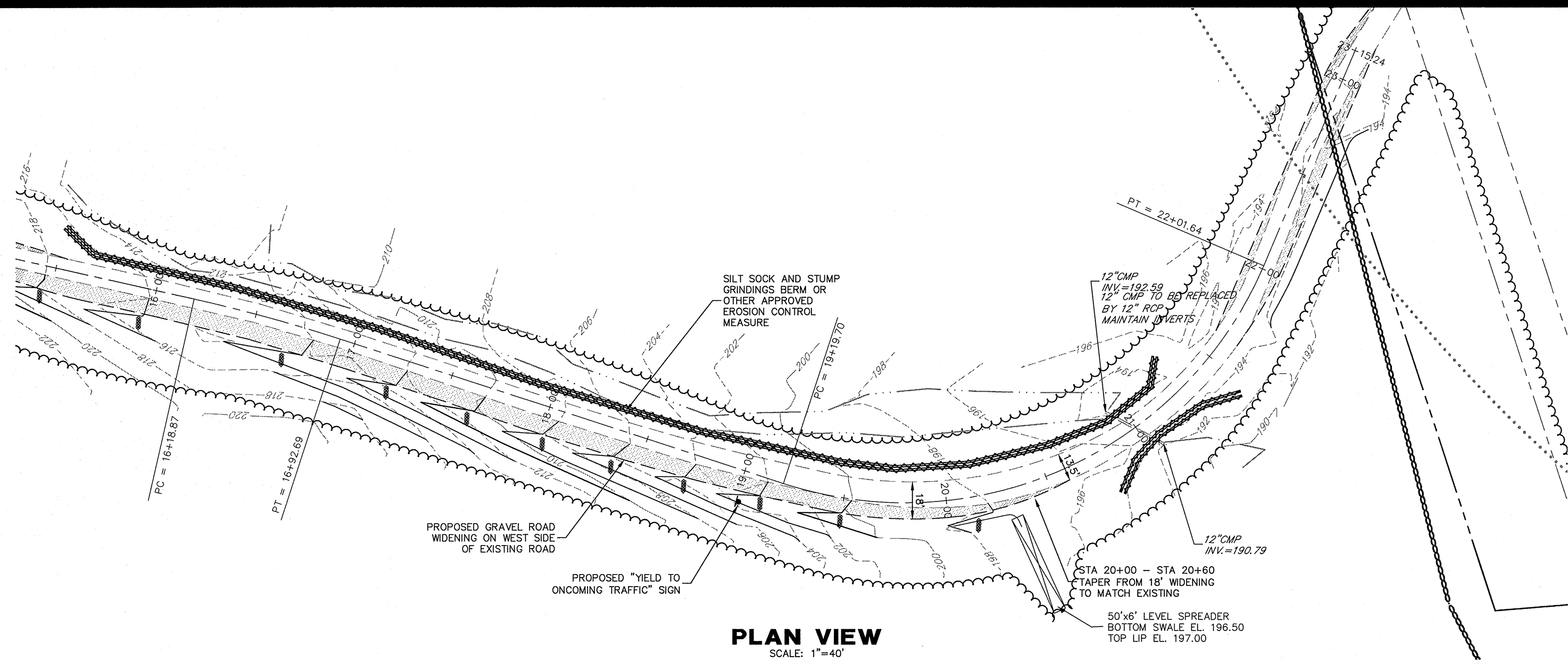
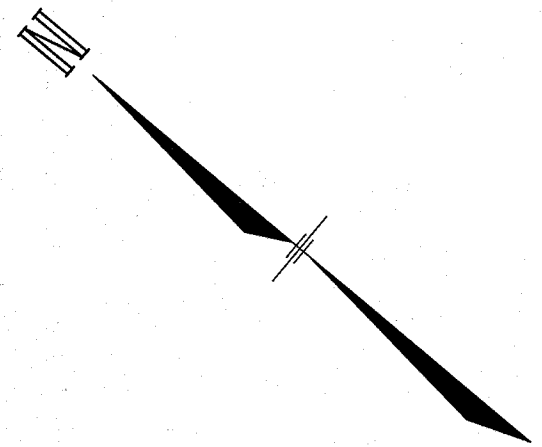


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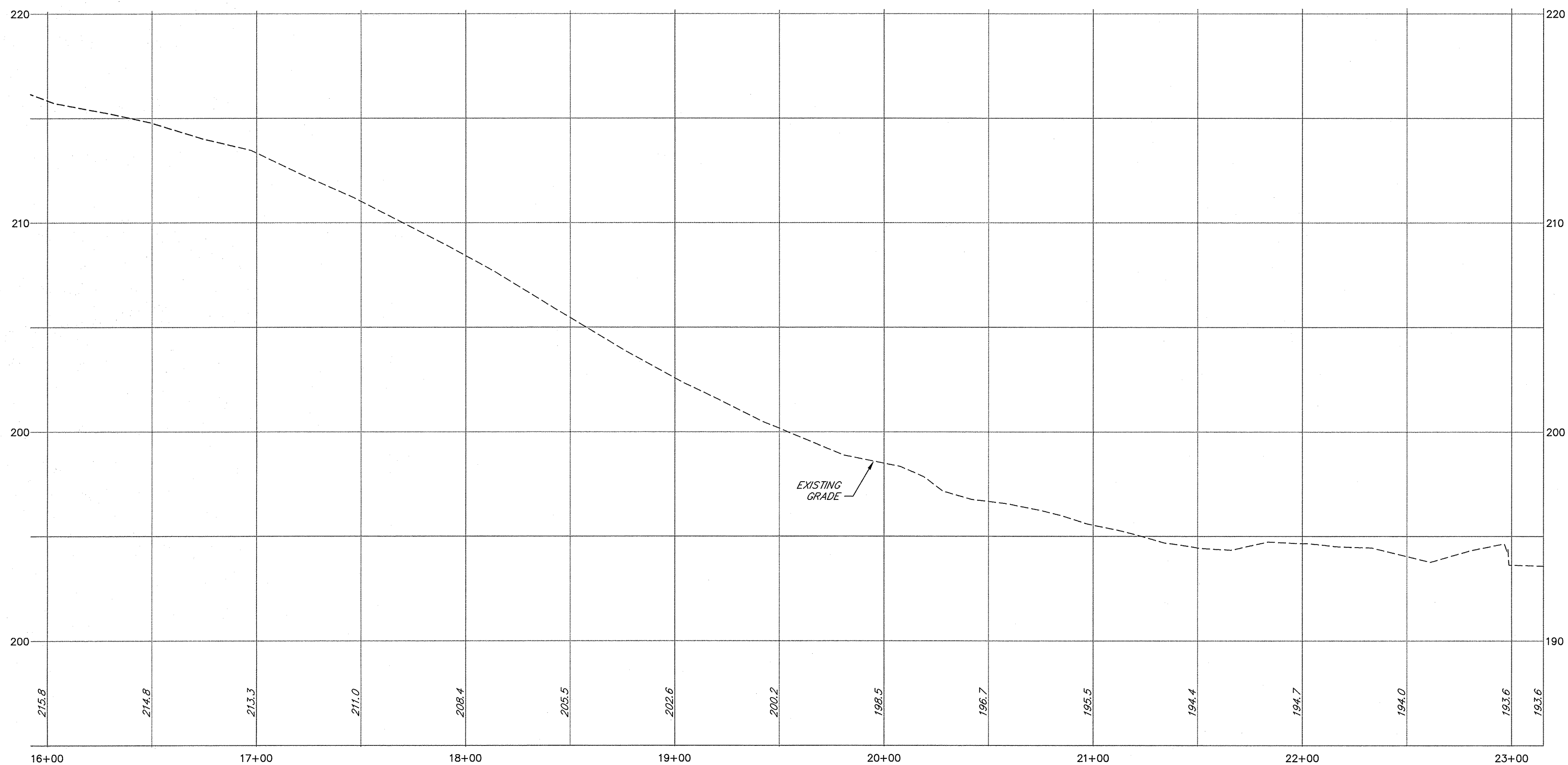
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PLAN VIEW
SCALE: 1"=40'



PROFILE
SCALE: 1"=40' HORIZ.
1"=4' VERT.

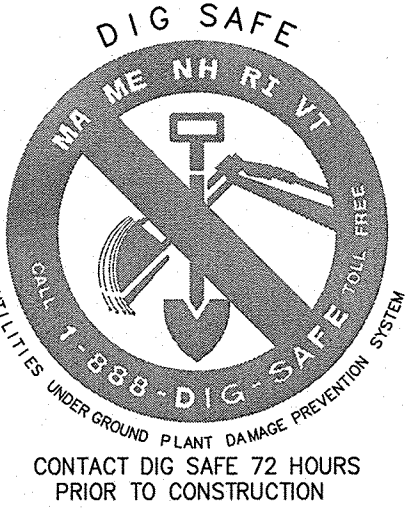
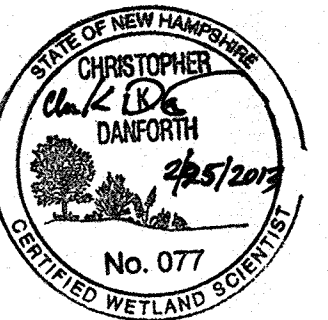
PROPOSED	LEGEND	EXISTING
IRON PIPE	○ IPF	○ IPF
IRON PIN	○ IPinF or IRF	○ IPinF or IRF
DRILL HOLE	● DHF	● DHF
EDGE OF PAVEMENT	---	---
EDGE OF GRAVEL	---	---
SILT SOCK/STUMP GRINDINGS BERM	---	---
SIGN	○	○
UTILITY POLE	○	○
TESTPIT	○	○
SPOT GRADE	○	○
INDEX CONTOUR	---	---
INTERMEDIATE CONTOUR	---	---
EDGE OF WETLAND	---	---
BROOK, STREAM OR RIVER	---	---
S.C.S. SOILS BOUNDARY	---	---
TREELINE	---	---
RIP-RAP	---	---

WETLAND CERTIFICATION

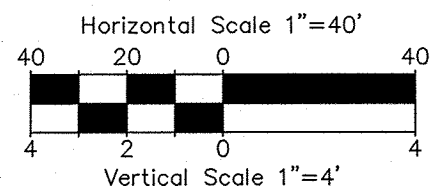
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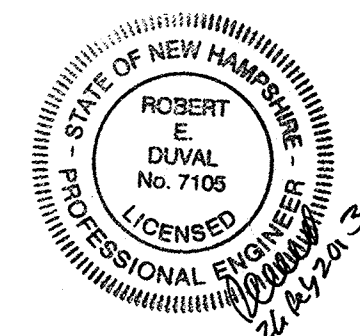
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3	01/17/13	PER DUBOIS & KING REVIEW	JH	JK



TAX MAP 210 LOT 57

ACCESS ROADWAY PLAN & PROFILE

GRAVEL EXCAVATION OPERATION

GREEN HILL ROAD, BARRINGTON, NH

OWNED BY
TRINITY CONSERVATION, LLC

PREPARED FOR
TRINITY CONSERVATION, LLC

SCALE: AS NOTED
SEPTEMBER 20, 2012

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CK JK CADFILE 47052-00 Site

SHEET 6 OF 12

GREEN HILL ROAD DEVELOPER AGREEMENT

THE DEVELOPER HAS AGREED WITH THE PLANNING BOARD TO CERTAIN IMPROVEMENTS TO GREEN HILL ROAD WHICH ARE REQUIRED TO BE COMPLETED AT THE EXPENSE OF THE DEVELOPER PRIOR TO THE COMMENCING OF COMMERCIAL SITE OPERATION. THE DEVELOPER WILL MEET WITH THE BOARD OF SELECTMEN TO FINALIZE THE SCHEDULE OF IMPROVEMENTS TO GREEN HILL ROAD, INCLUDING ANY BONDING NECESSARY.

SECTION 1: NH ROUTE 125 TO #61 GREEN HILL ROAD
APPROXIMATE LENGTH: 1400'
CONSTRUCT FULL BOX TO TOWN SPECIFICATIONS (4" PAVED, 6" CRUSHED GRAVEL, 12" BANK RUN)
CONSTRUCT WOVEN GEOTEXTILE UNDERLAYMENT
CLEAN/REGRADE DITCHES (ALONG NORTH SIDE)
REPLACE EXISTING DRIVEWAY CULVERTS
REQUIRED SHOULDER WIDTH (FULL BOX RECONSTRUCTION) = 2 FEET (P COOK)

SECTION 2: #61 GREEN HILL ROAD TO #144 GREEN HILL ROAD
APPROXIMATE LENGTH: 1700'
SHIM EXISTING PAVEMENT
CONSTRUCT 1 1/2" WEARING COURSE OVERLAY

SECTION 3: #144 GREEN HILL ROAD TO SEAVEY BRIDGE ROAD.
APPROXIMATE LENGTH: 1200'
CUT / REMOVE EXISTING PAVEMENT APPROX 19" SOUTH OF CENTERLINE (REMOVING OUTERMOST 3')
CONSTRUCT UNDERDRAIN AND REPLACE GRAVELS AND BASE COURSE PAVEMENT ON 3' SECTION
CONSTRUCT 1 1/2" WEARING COURSE OVERLAY OVER FULL WIDTH
CLEAN/REGRADE DITCHES (ALONG SOUTH SIDE)
ANALYZE EXISTING CULVERT TO DETERMINE NEED FOR REPLACEMENT

SECTION 4A: SEAVEY BRIDGE ROAD TO SITE DRIVEWAY
APPROXIMATE LENGTH: 1000'
SHIM EXISTING PAVEMENT
CONSTRUCT 1 1/2" WEARING COURSE OVERLAY

GREEN HILL ROAD WESTBOUND IMPROVEMENT SCHEDULE

SECTION 4B: SITE DRIVEWAY TO BROOKS ROAD
APPROXIMATE LENGTH: 2200'
SHIM EXISTING PAVEMENT
CONSTRUCT 1 1/2" WEARING COURSE OVERLAY

SECTION 5: BROOKS ROAD TO #336 GREENHILL ROAD
APPROXIMATE LENGTH: 500'
GRIND/ RECLAIM EXISTING PAVEMENT (4" DEPTH)
CONSTRUCT 4" BITUMINOUS PAVEMENT (BINDER PLUS WEARING COURSE)
REPLACE EXISTING ROAD CULVERT
(ROW WIDTH = 66 FEET)

SECTION 6: #336 GREENHILL ROAD TO #348 GREENHILL ROAD
APPROXIMATE LENGTH: 400'
SHIM EXISTING PAVEMENT
CONSTRUCT 1 1/2" WEARING COURSE OVERLAY

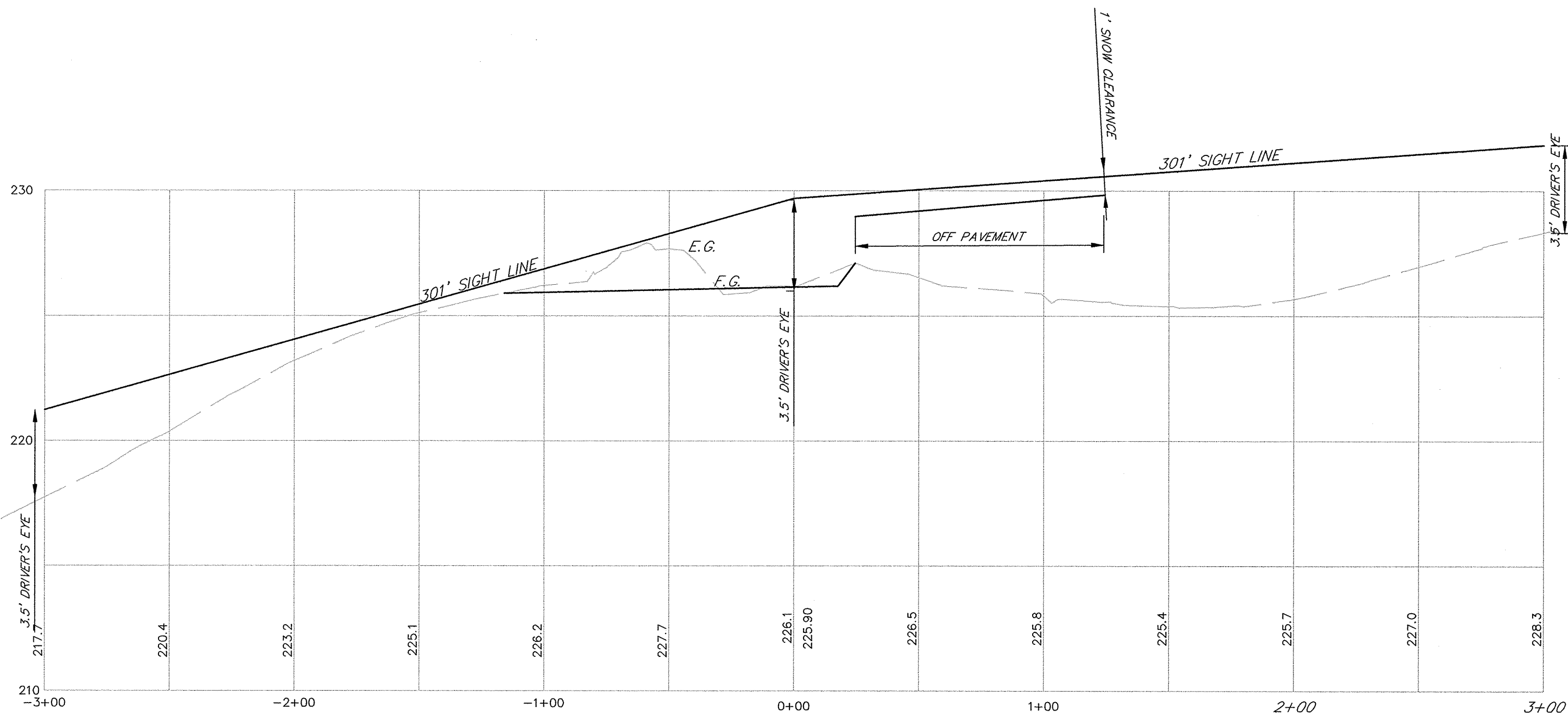
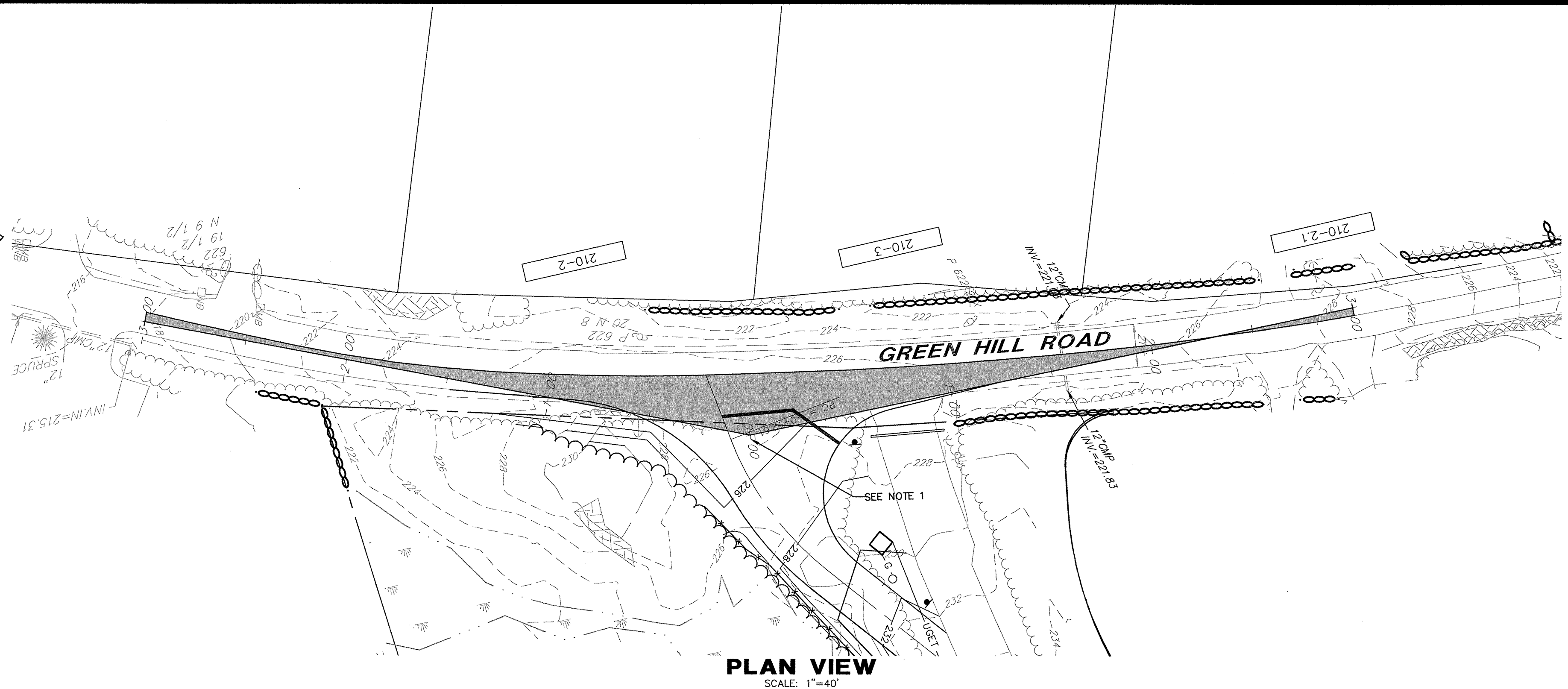
SECTION 7: #348 GREENHILL ROAD TO MAHALA DRIVE
APPROXIMATE LENGTH: 1300'
GRIND/ RECLAIM EXISTING PAVEMENT (4" DEPTH)
CONSTRUCT 4" BITUMINOUS PAVEMENT (BINDER PLUS WEARING COURSE)
CLEAN/ REGRADE DITCH (SOUTH SIDE)

SECTION 8: MAHALA DRIVE TO #513 GREEN HILL ROAD
APPROXIMATE LENGTH: 3500'
SHIM EXISTING PAVEMENT
CONSTRUCT 1 1/2" WEARING COURSE OVERLAY
CLEAN/REGRADE DITCHES (NORTH AND SOUTH)

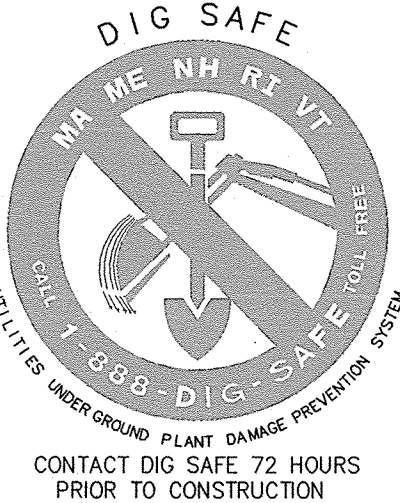
SECTION 9: #513 GREEN HILL ROAD TO US202
APPROXIMATE LENGTH: 350'
WIDEN ROAD / CONSTRUCT 2 1/2" BINDER COURSE PAVEMENT ALONG SOUTHERN EDGE (2' WIDENING)
SHIM EXISTING PAVEMENT
CONSTRUCT 1 1/2" WEARING COURSE OVERLAY
EXTEND EXISTING 15" RCP AND PROVIDE MRM HEADWALL (SOUTH)
CONSTRUCT STONE INLET SEDIMENT BASIN (SOUTH)

NOTE

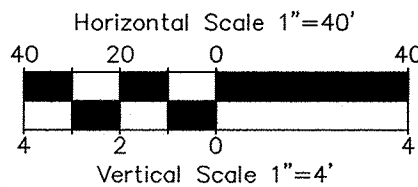
1. SIGHT DISTANCE HAS BEEN EVALUATED IN ACCORDANCE WITH AASHTO CRITERIA. CRITICAL SIGHT LINE IS FOR A LEFT-TURNING VEHICLE, LOOKING RIGHT.



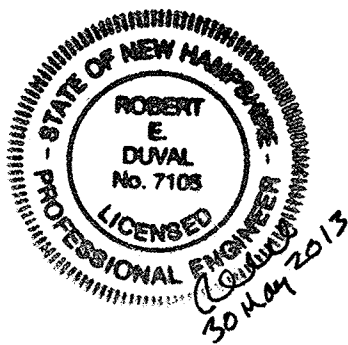
PROPOSED	LEGEND	EXISTING
—	IRON PIPE	—
—	IRON PIN	—
—	DRILL HOLE	—
—	EDGE OF PAVEMENT	—
—	EDGE OF GRAVEL	—
—	SIGN	—
—	UTILITY POLE	—
—	SPOT GRADE	—
—	INDEX CONTOUR	—
—	INTERMEDIATE CONTOUR	—
—	TREELINE	—



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PROFILE
SCALE: 1"=40' HORIZ.
1"=4' VERT.



REV.	DATE	DESCRIPTION	DR	CK
6	05/30/13	REVISE DRIVEWAY LOCATION	JH	JK
5	04/11/13	ADD VERTICAL CURVE	JH	JK
4	02/15/13	PER DUBOIS & KING REVIEW	JH	JK

TAX MAP 210 LOT 57
SIGHTLINE PLAN & PROFILE
GRAVEL EXCAVATION OPERATION
GREEN HILL ROAD, BARRINGTON, NH
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TRINITY CONSERVATION, LLC
PREPARED FOR
TRINITY CONSERVATION, LLC
SCALE: AS NOTED
JANUARY 30, 2013

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Scientists

48 Constitution Drive
Bedford, NH 03110
Phone (603) 472-4488
Fax (603) 472-9747
www.tfmoran.com

FILE 47052.00 DR JH FB —
CK JK CADFILE 47052-00 Site SHEET 6A OF 12

OPERATION & MAINTENANCE NOTES:

1. THE OPERATION IS PROPOSED TO BE RUN YEAR-ROUND, EXCLUDING MAJOR HOLIDAYS AND AS OTHERWISE INDICATED IN THIS LETTER. NORMAL BUSINESS HOURS ARE PROPOSED TO BE MONDAY THROUGH FRIDAY FROM 8:00AM TO 5:00 PM, WHERE THE BUSINESS WILL BE OPEN TO THE PUBLIC. ROUTINE MAINTENANCE MAY BE PERFORMED ON THE GROUNDS ON SATURDAY FROM 8:00 AM TO 5:00 PM; HOWEVER THE BUSINESS WILL BE CLOSED TO THE PUBLIC ON SATURDAY. ROUTINE MAINTENANCE SHALL CONSIST OF CLEANING EQUIPMENT, RECLAMATION, INSPECTION AND MAINTENANCE OF STORM WATER TREATMENT AND CONVEYANCE PRACTICES, MAINTENANCE OF THE ACCESS ROADWAY AND RELATED ACTIVITIES.
2. BLASTING IS LIMITED TO ONE DAY PER TWO MONTHS. OPERATOR IS REQUIRED TO PROVIDE 48 HOURS NOTICE TO ADJUTERS IN ADVANCE OF BLASTING OPERATIONS.
3. THE USE OF ACOUSTICAL WALLS SHALL BE IMPLEMENTED DURING ANY CRUSHING OR USE OF MATERIALS PROCESSING EQUIPMENT. SOUND LEVELS SHALL BE RECORDED AT ALL PROPERTY LINES DURING CRUSHING. CRUSHING OR PROCESSING SHALL TEMPORARILY CEASE AND DESIST IF SOUND LEVELS EXCEED 75 DECIBELS AT THE PROPERTY LINE UNTIL ADDITIONAL SOUND MITIGATION PRACTICES ARE EMPLOYED.
4. BLASTING SHALL CONFORM TO THE NH DEPARTMENT OF SAFETY RULES ESTABLISHED PER SAF-C 1600. THE BLASTING CONTRACTOR WILL MONITOR GROUND VIBRATIONS PRODUCED BY EACH BLAST AND WILL PRODUCE PRINTED SEISMOGRAMS OF VIBRATIONS THAT ARE RECORDED IN UNITS OF PARTICLE VELOCITY IN INCHES/SECONDS. THESE PRINTED MEASUREMENTS WILL BE RETAINED BY THE BLASTING CONTRACTOR FOR A PERIOD THROUGH THE NEXT COMPLETED COMPLIANCE HEARING BEFORE THE PLANNING BOARD, AND WILL BE AVAILABLE TO TOWN AND STATE OFFICIALS UPON REQUEST. BLASTING SHALL TEMPORARILY CEASE IF VIBRATION LEVELS EXCEED A PEAK OF 0.15 INCHES/SECOND ALONG THE CITY OF ROCHESTER PROPERTY LINE UNTIL ADDITIONAL VIBRATION MITIGATION PRACTICES ARE EMPLOYED.
5. DUST CONTROL WILL BE IMPLEMENTED AS NEEDED ONCE SITE GRADING HAS BEGUN AND DURING WINDY CONDITIONS (FORECASTED OR ACTUAL WIND CONDITIONS OF 20 MPH OR GREATER) WHILE SITE GRADING IS OCCURRING. SPRAYING OF POTABLE WATER AT A RATE OF 300 GALLONS PER ACRE OR LESS WILL BE PERFORMED BY A MOBILE PRESSURE-TYPE DISTRIBUTOR TRUCK NO MORE THAN THREE TIMES A DAY DURING THE MONTHS OF MAY THRU SEPTEMBER AND ONCE PER DAY DURING THE MONTHS OF OCTOBER THRU APRIL OR WHENEVER THE DRYNESS OF THE SOIL WARRANTS IT.
6. OPERATOR SHALL FOLLOW INSTALLATION AND MAINTENANCE SCHEDULE DETAILED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) DURING EXCAVATION ACTIVITIES, AND SHALL PREPARE AND POSSESS ON SITE AN OPERATIONS PLAN INCLUDING BUT NOT LIMITED SPILL PREVENTION, CONTROL AND COUNTERMEASURES TO CONTROL THE USE AND STORAGE OF REGULATED SUBSTANCE AND THE SWPPP INSPECTION AND MAINTENANCE LOGS SHALL BE KEPT ONSITE AT ALL TIMES. THESE LOGS SHALL BE AVAILABLE UPON REQUEST BY THE IRLAC FOR A QUARTERLY REVIEW. THE ISINGLASS RIVER LOCAL ADVISORY COMMITTEE SHALL BE NOTIFIED OF AND ALLOWED TO ATTEND ANY SWPPP INSPECTION.

BLASTING BMP's

- 1) IDENTIFY DRINKING WATER WELLS LOCATED WITHIN 2000 FEET OF THE PROPOSED BLASTING ACTIVITIES. DEVELOP A GROUNDWATER QUALITY SAMPLING PROGRAM TO MONITOR FOR NITRATE AND NITRITE EITHER IN THE DRINKING WATER SUPPLY WELLS OR IN OTHER WELLS THAT ARE REPRESENTATIVE OF THE DRINKING WATER SUPPLY WELLS IN THE AREA. THE PLAN MUST INCLUDE PRE AND POST BLAST WATER QUALITY MONITORING AND BE APPROVED BY NHDES PRIOR TO INITIATING BLASTING. THE GROUNDWATER SAMPLING PROGRAM MUST BE IMPLEMENTED ONCE APPROVED BY NHDES.
- 2) THE FOLLOWING BEST MANAGEMENT PROCEDURES FOR BLASTING SHALL BE COMPLIED WITH:
- (1) LOADING PRACTICES: THE FOLLOWING BLASTHOLE LOADING PRACTICES TO MINIMIZE ENVIRONMENTAL EFFECTS SHALL BE FOLLOWED:
- (A) DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE BLASTER. THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAVITIES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS.
- (B) EXPLOSIVE PRODUCTS SHALL BE MANAGED ON-SITE SO THAT THEY ARE EITHER USED IN THE BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR PLACED IN SECURE CONTAINERS FOR OFF-SITE DISPOSAL.
- (C) SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED UP AND RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF-SITE DISPOSAL.
- (D) LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT IN THE BLASTHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED.
- (E) LOADING EQUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE ENVIRONMENT.
- (F) EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN RISE NEED TO BE ATTENDED TO.
- (2) EXPLOSIVE SELECTION: THE FOLLOWING BMPs SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR GROUNDWATER CONTAMINATION WHEN EXPLOSIVES ARE USED:
- (A) EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT ARE APPROPRIATE FOR SITE CONDITIONS AND SAFE BLAST EXECUTION.
- (B) EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT HAVE THE APPROPRIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT TO MINIMIZE THE POTENTIAL FOR HAZARDOUS EFFECT OF THE PRODUCT UPON GROUNDWATER.
- (3) PREVENTION OF MISFIRES: APPROPRIATE PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO PREVENT MISFIRES.
- (4) MUCK PILE MANAGEMENT: MUCK PILES (THE BLASTED PIECES OF ROCK) AND ROCK PILES SHALL BE MANAGED IN A MANNER TO REDUCE THE POTENTIAL FOR CONTAMINATION BY IMPLEMENTING THE FOLLOWING MEASURES:
- (A) REMOVE THE MUCK PILE FROM THE BLAST AREA AS SOON AS REASONABLY POSSIBLE.
- (B) MANAGE THE INTERACTION OF BLASTED ROCK PILES AND STORMWATER TO PREVENT CONTAMINATION OF WATER SUPPLY WELLS OR SURFACE WATER.
- (5) SPILL PREVENTION MEASURES AND SPILL MITIGATION. SPILL PREVENTION AND SPILL MITIGATION MEASUREMENTS TO PREVENT THE RELEASE OF FUEL AND OTHER RELATED SUBSTANCES TO THE ENVIRONMENT. THE MEASURES SHALL INCLUDE AT A MINIMUM:
- (A) THE FUEL STORAGE REQUIREMENTS SHALL INCLUDE:
1. STORAGE OF REGULATED SUBSTANCES ON AN IMPERVIOUS SURFACE;
2. SECURE STORAGE AREAS AGAINST UNAUTHORIZED ENTRY;
3. LABEL REGULATED CONTAINERS CLEARLY AND VISIBLY;
4. INSPECT STORAGE AREAS WEEKLY;
5. COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS;
6. WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS; AND
7. SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
- (B) THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
1. EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED;
2. PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS;
3. HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS;
4. USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES; AND
5. PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.
- (C) THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
- (D) FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT WILL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES [NOTE THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT OR ITS SUCCESSOR DOCUMENT. (SEE [HTTP://DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIF/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF](http://DES.NH.GOV/ORGANIZATION/COMMISSIONER/PIF/FACTSHEETS/DWGB/DOCUMENTS/DWGB-22-6.PDF))

PHASING NOTE

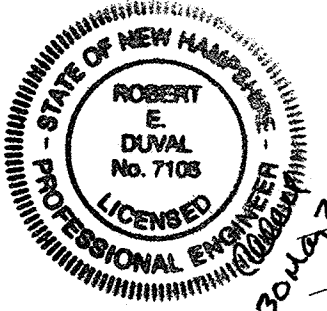
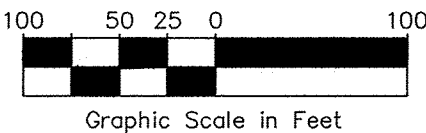
THE GRAVEL EXCAVATION OPERATION WILL BE PERFORMED SO AS TO ONLY DISTURB 10 ACRES AT A TIME. THE AREA COMPLETED WILL BE STABILIZED WITH GRASS PRIOR TO CLEARING, GRUBBING AND EXCAVATING THE NEXT PHASE AREA. AREAS SHOWN ARE AN EXAMPLE OF POSSIBLE PHASING, BUT THE OPERATOR MAY VARY PHASING SEQUENCE (WHILE ONLY DISTURBING 10 ACRES AT ANY GIVEN TIME).

THE OPERATOR SHALL UPGRADE THE ENTRANCE DRIVEWAY AS SHOWN PRIOR TO BEGINNING THE GRAVEL EXCAVATION OPERATION, THEN BEGIN THE OPERATION IN THE EXISTING OPEN AREA (PHASE 1). A SEDIMENTATION BASIN OR OTHER DRAINAGE SYSTEM SHALL BE PROVIDED TO TREAT RUNOFF PRIOR TO LEAVING THE PROJECT AREA.

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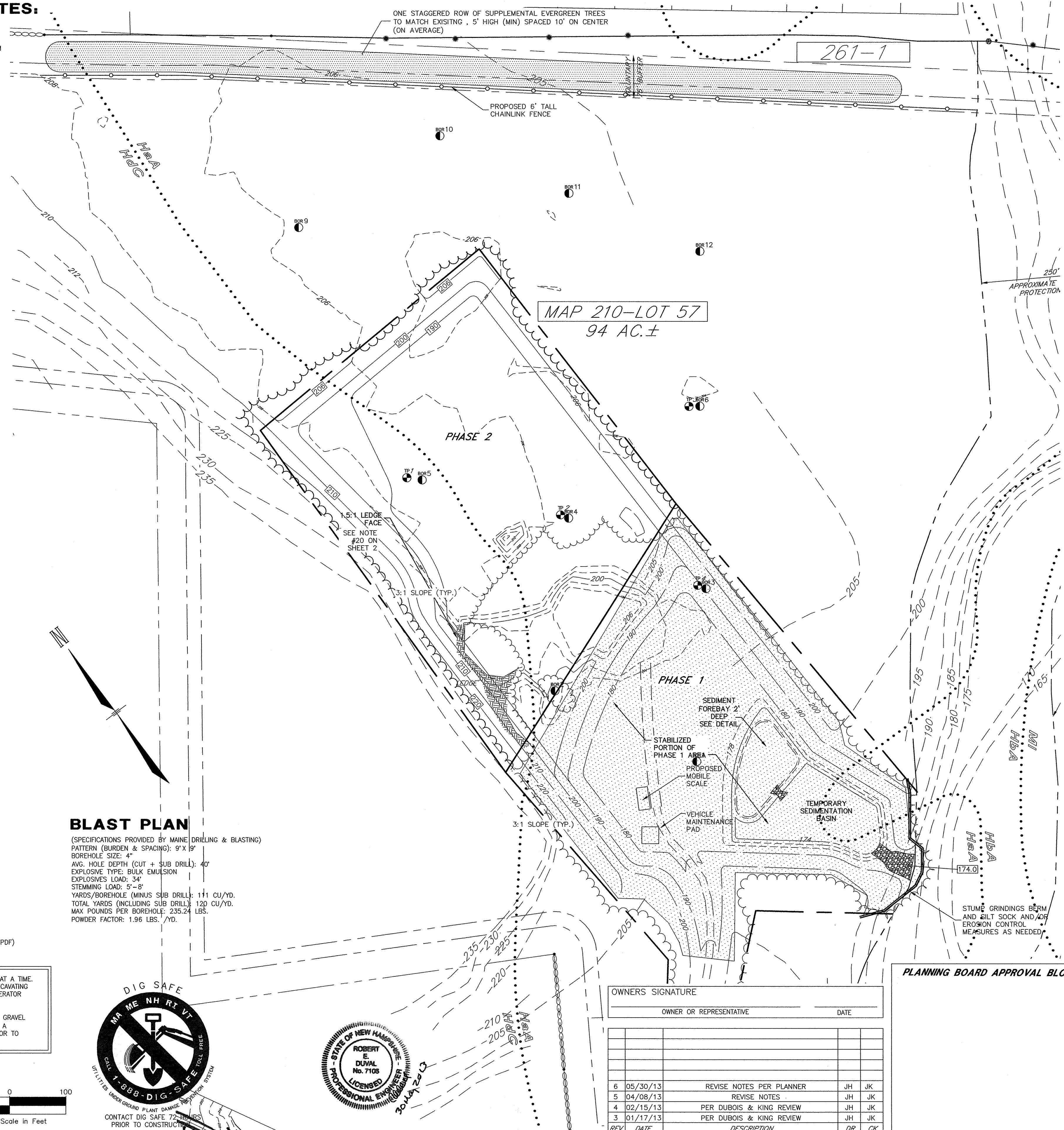
This plan is not effective unless signed by a duly authorized officer of Thomas F. Moran, Inc.



CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION

BLAST PLAN

(SPECIFICATIONS PROVIDED BY MAINE DRILLING & BLASTING)
PATTERN (BURDEN & SPACING): 9' X 9'
BOREHOLE SIZE: 4"
AVG. HOLE DEPTH (CUT + SUB DRILL): 40'
EXPLOSIVE TYPE: BULK EMULSION
EXPLOSIVES LOAD: 34'
STEMMING LOAD: 5'-8"
YARDS/BOREHOLE (MINUS SUB DRILL): 111 CU/YD.
TOTAL YARDS (INCLUDING SUB DRILL): 120 CU/YD.
MAX POUNDS PER BOREHOLE: 235.24 LBS.
POWDER FACTOR: 1.96 LBS. /YD.



OWNERS SIGNATURE _____ DATE _____
OWNER OR REPRESENTATIVE

REV.	DATE	DESCRIPTION	DR	CK
6	05/30/13	REVISE NOTES PER PLANNER	JH	JK
5	04/08/13	REVISE NOTES	JH	JK
4	02/15/13	PER DUBOIS & KING REVIEW	JH	JK
3	01/17/13	PER DUBOIS & KING REVIEW	JH	JK

PLANNING BOARD APPROVAL BLOCK

NOTES

1. THE PURPOSE OF THIS PLAN IS TO SHOW THE PHASE 2 (10 AC.) EXCAVATION OF THE SITE.
2. TOPOGRAPHY SHOWN IS A COMPILATION OF GROUND SURVEY BY THIS OFFICE AND INFORMATION TAKEN FROM THE REFERENCE PLAN. GROUND SURVEY DATUM IS NAD 88 COORS.
3. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY TFMORAN, INC., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE SITE AND ALL EXISTING CONDITIONS SURROUNDING IT AND THEREON. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF HIS INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
6. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES.
7. IN THE EVENT OF A CONFLICT BETWEEN PLANS, SPECIFICATIONS, AND DETAILS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION AND NOTIFICATION SHALL BE GIVEN TO THE TOWN.
8. IF CONDITIONS AT THE SITE ARE DIFFERENT THAN SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
9. THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. TFMORAN INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-CONFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
10. TFMORAN INC. ASSUMES NO LIABILITY FOR WORK PERFORMED WITHOUT AN ACCEPTABLE PROGRAM OF TESTING AND INSPECTION AS APPROVED BY THE ENGINEER OF RECORD.
11. WARM SEASON GRASS MIX SHALL BE USED TO RECLAIM THE FLOOR OF THE EXCAVATION SITE. SPECIFICATION FOR WARM SEASON GRASS MIX IS LOCATED ON SHEET 10 OF THIS PLAN SET. EMBANKMENTS SHALL BE SEEDDED WITH USDA CONSERVATION SERVICE MIX B. SPECIFICATIONS FOR CONSERVATION MIX B ARE LOCATED ON SHEET 10 OF THIS PLAN SET.
12. PERMANENT AND TEMPORARY EMBANKMENTS THAT ARE NOT ACTIVELY BEING WORKED ON SHALL BE STABILIZED WITH LOAM, SEED AND NORTH AMERICAN GREEN MATTING.
13. OPERATOR/EXCAVATOR SHALL OBSERVE WATER LEVEL IN MONITORING WELLS DURING MARCH, APRIL, AND OCTOBER ANNUALLY. FINAL GRADES SHALL BE ADJUSTED AS NECESSARY TO PROVIDE 4 FEET (MIN.) SEPARATION ABOVE WATER TABLE.
14. WHERE LEDGE IS ENCOUNTERED AT DESIGN FINISH GRADE OPERATOR SHALL OVERBLAST AND BACKFILL TO DESIGN FINISH GRADES USING OVERBURDEN AND/OR OTHER MATERIAL DETERMINED BY ENGINEER.

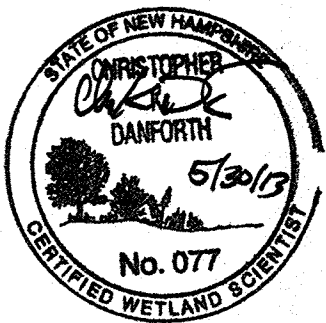
PROPOSED	LEGEND	EXISTING
	IRON PIPE	IFF
	IRON PIN	IPIaF or IRF
	DRILL HOLE	DHF
	EDGE OF PAVEMENT	
	EDGE OF GRAVEL	
	SILT SOCK/STUMP GRINDINGS BERM	
	SIGN UTILITY POLE	
	TESTPIT	
	INDEX CONTOUR	200
	INTERMEDIATE CONTOUR	202
	BROOK, STREAM OR RIVER	
	S.C.S. SOILS BOUNDARY	He/G
	TREELINE	
	RIP-RAP	

WETLAND CERTIFICATION

WETLANDS SHOWN ON THIS PLAN WERE DELINEATED DURING AUGUST OF 2012 BY CHRISTOPHER K. DANFORTH OF TFMORAN, INC. CWS #077. THE WETLANDS WERE DELINEATED ACCORDING TO THE 1987 ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL AND THE INTERIM REGIONAL SUPPLEMENT NE REGIONAL.

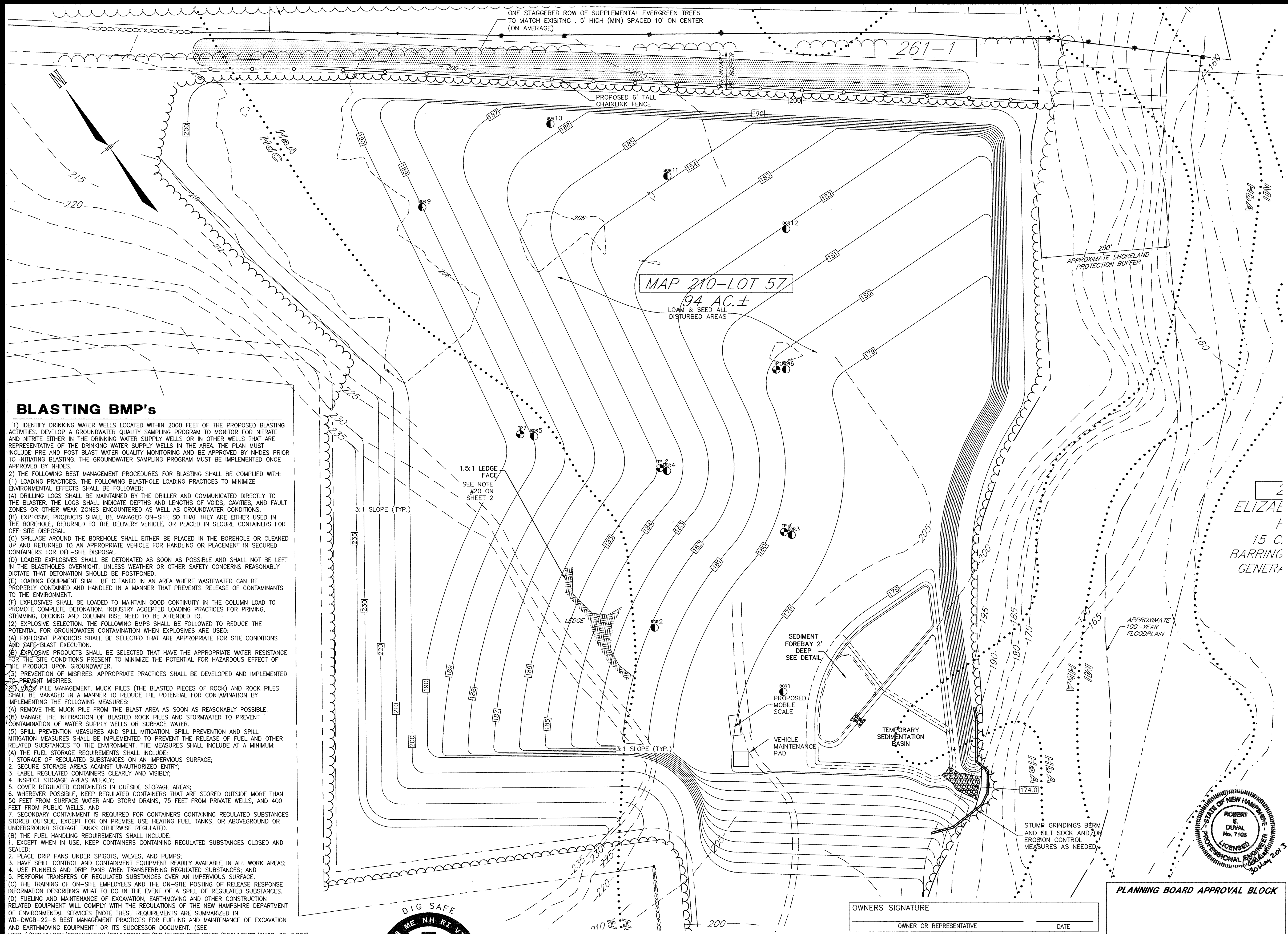
DOMINANT HYDRIC SOIL CONDITIONS WITHIN THE WETLANDS WERE IDENTIFIED UTILIZING THE CRITERIA OF "FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND", VERSION 3, APRIL 2004.

DOMINANCE OF WETLAND VEGETATION WAS ASSESSED UTILIZING THE "NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: 1988 NORTHEAST" (REGION 1) (PORTER B. REED, JR.) THE AREA SURVEYED FOR WETLANDS INCLUDES LANDS ADJACENT TO THE GRAVEL ROAD, THE EXISTING GRAVEL PIT, AND THE LAND BETWEEN THE OPEN AREA AND THE ISINGLASS RIVER, CONTIGUOUS AND ISOLATED POCKET WETLANDS WERE DELINEATED WITHIN THE 250 FOOT SHORELAND PROTECTION BUFFER TO THE ISINGLASS RIVER THAT ARE NOT DEPICTED HEREON.



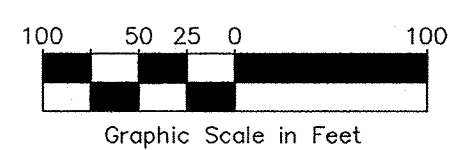
TAX MAP 210 LOT 57
PHASE 2 GRADING PLAN
GRAVEL EXCAVATION OPERATION
GREEN HILL ROAD, BARRINGTON, NH
OWNED BY
TRINITY CONSERVATION, LLC
PREPARED FOR
TRINITY CONSERVATION, LLC
SCALE: 1"=100' **SEPTEMBER 20, 2012**

		Civil Engineers		48 Constitution Drive	
		Structural Engineers		Bedford, NH 03110	
		Traffic Engineers		Phone (603) 472-4488	
		Land Surveyors		Fax (603) 472-9747	
		Landscape Architects		www.tfmoran.com	
		Scientists			
FILE	47052.00	DR	JH	FILE	
		CK	JK	CADFILE	47052-00 Site
					SHEET 7 OF 12



BLASTING BMP's

- 1) IDENTIFY DRINKING WATER WELLS LOCATED WITHIN 2000 FEET OF THE PROPOSED BLASTING ACTIVITIES. DEVELOP A GROUNDWATER QUALITY SAMPLING PROGRAM TO MONITOR FOR NITRATE AND NITRITE EITHER IN THE DRINKING WATER SUPPLY WELLS OR IN OTHER WELLS THAT ARE REPRESENTATIVE OF THE DRINKING WATER SUPPLY WELLS IN THE AREA. THE PLAN MUST INCLUDE PRE AND POST BLAST WATER QUALITY MONITORING AND BE APPROVED BY NHDES PRIOR TO INITIATING BLASTING. THE GROUNDWATER SAMPLING PROGRAM MUST BE IMPLEMENTED ONCE APPROVED BY NHDES.
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 - (i) DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE BLASTER. THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAVITIES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS.
 - (ii) EXPLOSIVE PRODUCTS SHALL BE MANAGED ON-SITE SO THAT THEY ARE EITHER USED IN THE BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR PLACED IN SECURE CONTAINERS FOR OFF-SITE DISPOSAL.
 - (iii) SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED UP AND RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF-SITE DISPOSAL.
 - (iv) LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT IN THE BLASTHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED.
 - (v) LOADING EQUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE ENVIRONMENT.
 - (vi) EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN RISE NEED TO BE ATTENDED TO.
 - (B) EXPLOSIVE SELECTION. THE FOLLOWING BMP'S SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR GROUNDWATER CONTAMINATION WHEN EXPLOSIVES ARE USED:
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 - (i) THE FUEL STORAGE REQUIREMENTS SHALL INCLUDE:
 - (a) STORAGE OF REGULATED SUBSTANCES ON AN IMPERVIOUS SURFACE;
 - (b) SECURE STORAGE AREAS AGAINST UNAUTHORIZED ENTRY;
 - (c) LABEL REGULATED CONTAINERS CLEARLY AND VISIBLY;
 - (d) INSPECT STORAGE AREAS WEEKLY;
 - (e) COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS;
 - (f) WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS; AND
 - (g) SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
 - (ii) THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
 - (a) EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED;
 - (b) PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS;
 - (c) HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS;
 - (d) USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES; AND
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 - (iii) THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
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PHASING NOTE

THE GRAVEL EXCAVATION OPERATION WILL BE PERFORMED SO AS TO ONLY DISTURB 10 ACRES AT A TIME. THE AREA COMPLETED WILL BE STABILIZED WITH GRASS PRIOR TO CLEARING, GRUBBING AND EXCAVATING THE NEXT PHASE AREA. AREAS SHOWN ARE AN EXAMPLE OF POSSIBLE PHASING, BUT THE OPERATOR MAY VARY PHASING SEQUENCE (WHILE ONLY DISTURBING 10 ACRES AT ANY GIVEN TIME).

THE OPERATOR SHALL UPGRADE THE ENTRANCE DRIVEWAY AS SHOWN PRIOR TO BEGINNING THE GRAVEL EXCAVATION OPERATION. THEN BEGIN THE OPERATION IN THE EXISTING OPEN AREA (PHASE 1). SEDIMENTATION BASIN OR OTHER DRAINAGE SYSTEM SHALL BE PROVIDED TO TREAT RUNOFF PRIOR TO LEAVING THE PROJECT AREA.

OWNERS SIGNATURE _____ DATE _____
OWNER OR REPRESENTATIVE _____

REV.	DATE	DESCRIPTION	DR	CK
5	04/08/13	REVISE NOTES	JH	JK
4	02/15/13	PER DUBOIS & KING REVIEW	JH	JK
3	01/17/13	PER DUBOIS & KING REVIEW	JH	JK
1	12/10/12	ADD 75 FT. BUFFER NORTH	JH	JK

PLANNING BOARD APPROVAL BLOCK

NOTES

1. THE PURPOSE OF THIS PLAN IS TO SHOW THE OVERALL EXCAVATION AND RESTORATION OF THE SITE.
2. TOPOGRAPHY SHOWN IS A COMPILATION OF GROUND SURVEY BY THIS OFFICE AND INFORMATION TAKEN FROM THE REFERENCE PLAN. GROUND SURVEY DATUM IS NAD 88 COORS.
3. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY TFMORAN, INC., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE SITE AND ALL EXISTING CONDITIONS SURROUNDING IT AND THEREON. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF HIS INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
6. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES.
7. IN THE EVENT OF A CONFLICT BETWEEN PLANS, SPECIFICATIONS, AND DETAILS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION AND NOTIFICATION SHALL BE GIVEN TO THE TOWN.
8. IF CONDITIONS AT THE SITE ARE DIFFERENT THAN SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
9. THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. TFMORAN INC. ASSUMES NO LIABILITY AS A RESULT OF ANY CHANGES OR NON-CONFORMANCE WITH THESE PLANS EXCEPT UPON THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
10. TFMORAN INC. ASSUMES NO LIABILITY FOR WORK PERFORMED WITHOUT AN ACCEPTABLE PROGRAM OF TESTING AND INSPECTION AS APPROVED BY THE ENGINEER OF RECORD.
11. WARM SEASON GRASS MIX SHALL BE USED TO RECLAIM THE FLOOR OF THE EXCAVATION SITE. SPECIFICATION FOR WARM SEASON GRASS MIX IS LOCATED ON SHEET 10 OF THIS PLAN SET. EMBANKMENTS SHALL BE SEEDED WITH USDA CONSERVATION SERVICE MIX B. SPECIFICATIONS FOR CONSERVATION MIX B ARE LOCATED ON SHEET 10 OF THIS PLAN SET.
12. PERMANENT AND TEMPORARY EMBANKMENTS THAT ARE NOT ACTIVELY BEING WORKED ON SHALL BE STABILIZED WITH LOAM, SEED AND NORTH AMERICAN GREEN MATTING.
13. OPERATOR/EXCAVATOR SHALL OBSERVE WATER LEVEL IN MONITORING WELLS IN MARCH, APRIL AND OCTOBER ANNUALLY. FINAL GRADES SHALL BE ADJUSTED AS NECESSARY TO PROVIDE 4 FEET (MIN.) SEPARATION ABOVE WATER TABLE.
14. WHERE LEDGE IS ENCOUNTERED AT DESIGN FINISH GRADE OPERATOR SHALL OVERBLAST AND BACKFILL TO DESIGN FINISH GRADES USING OVERBURDEN AND/OR OTHER MATERIAL DETERMINED BY ENGINEER.

LEGEND

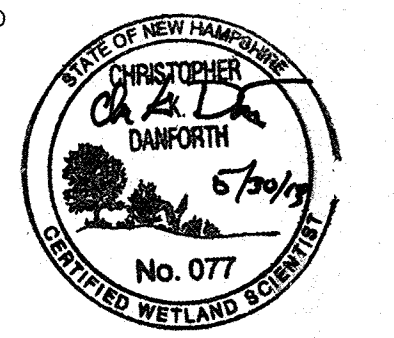
- | PROPOSED | EXISTING |
|--------------------------------|----------------|
| IRON PIPE | ○ I/P |
| IRON PIN | ○ I/PnF or I/P |
| DRILL HOLE | ● D/H |
| EDGE OF PAVEMENT | — |
| EDGE OF GRAVEL | --- |
| SILT SOCK/STUMP GRINDINGS BERM | — |
| SIGN | — |
| UTILITY POLE | — |
| TESTPIT | — |
| SPOT GRADE | x 200.5 |
| INDEX CONTOUR | — 200 |
| INTERMEDIATE CONTOUR | --- 202 |
| EDGE OF WETLAND | — |
| BROOK, STREAM OR RIVER | — |
| S.C.S. SOILS BOUNDARY | — |
| TREELINE | — |
| RIP-RAP | — |

WETLAND CERTIFICATION

WETLANDS SHOWN ON THIS PLAN WERE DELINEATED DURING AUGUST OF 2012 BY CHRISTOPHER K. DANFORTH OF TFMORAN, INC. CWS #077. THE WETLANDS WERE DELINEATED ACCORDING TO THE 1987 ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL AND THE INTERIM REGIONAL SUPPLEMENT NE REGIONAL.

DOMINANT HYDRIC SOIL CONDITIONS WITHIN THE WETLANDS WERE IDENTIFIED UTILIZING THE CRITERIA OF "FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND", VERSION 3, APRIL 2004.

DOMINANCE OF WETLAND VEGETATION WAS ASSESSED UTILIZING THE "NATIONAL LIST OF PLANT SPECIES THAT OCCUR IN WETLANDS: 1988 NORTHEAST" (REGION 1) (PORTER B. REED, JR.) THE AREA SURVEYED FOR WETLANDS INCLUDES LANDS ADJACENT TO THE GRAVEL ROAD, THE EXISTING GRAVEL PIT, AND THE LAND BETWEEN THE OPEN AREA AND THE ISINGLASS RIVER. CONTIGUOUS AND ISOLATED POCKET WETLANDS WERE DELINEATED WITHIN THE 250 FOOT SHORELAND PROTECTION BUFFER TO THE ISINGLASS RIVER THAT ARE NOT DEPICTED HEREON.



TAX MAP 210 LOT 57 FINAL EXCAVATION AND RESTORATION PLAN

GRAVEL EXCAVATION OPERATION GREEN HILL ROAD, BARRINGTON, NH

OWNED BY
TRINITY CONSERVATION, LLC
PREPARED FOR
TRINITY CONSERVATION, LLC

SCALE: 1"=100' SEPTEMBER 20, 2012



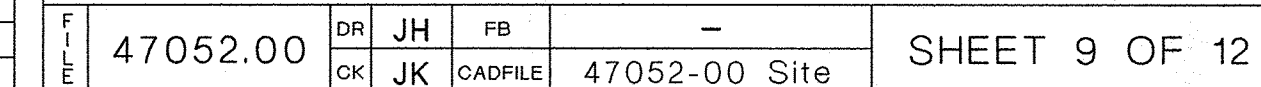
Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

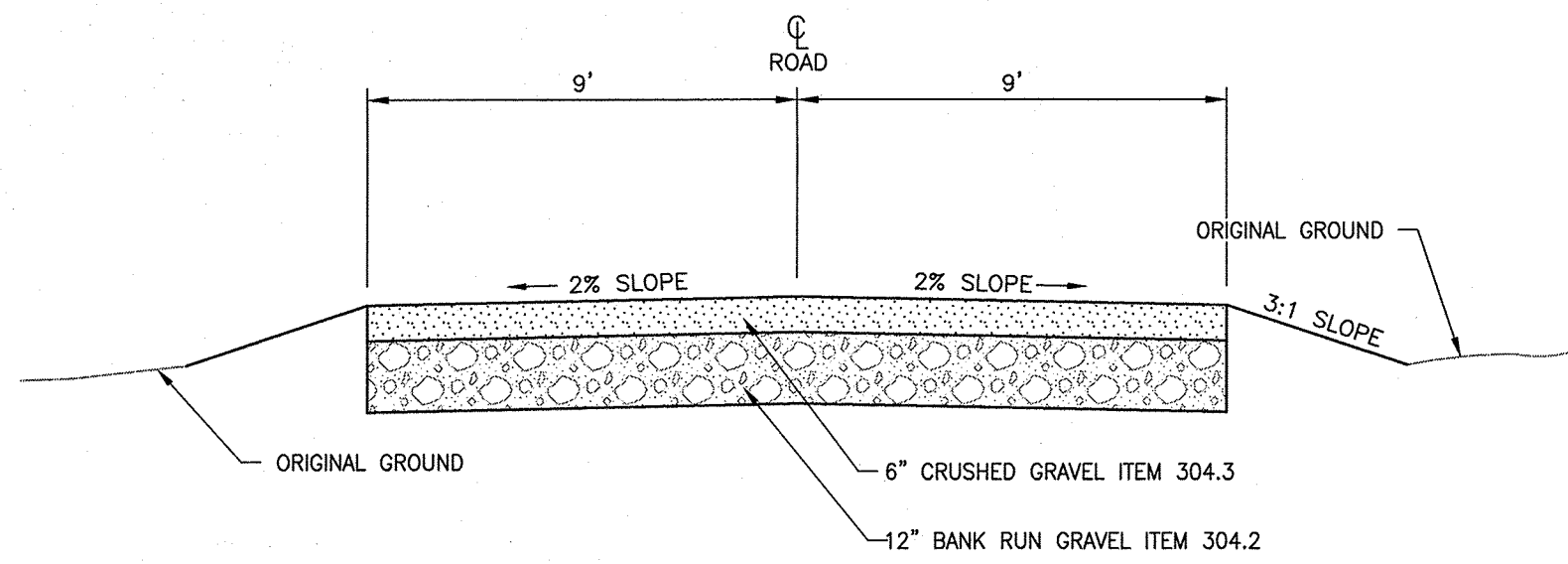
48 Constitution Drive
Bedford, NH 03110
Phone (603) 472-4488
Fax (603) 472-9747
www.tfmoran.com

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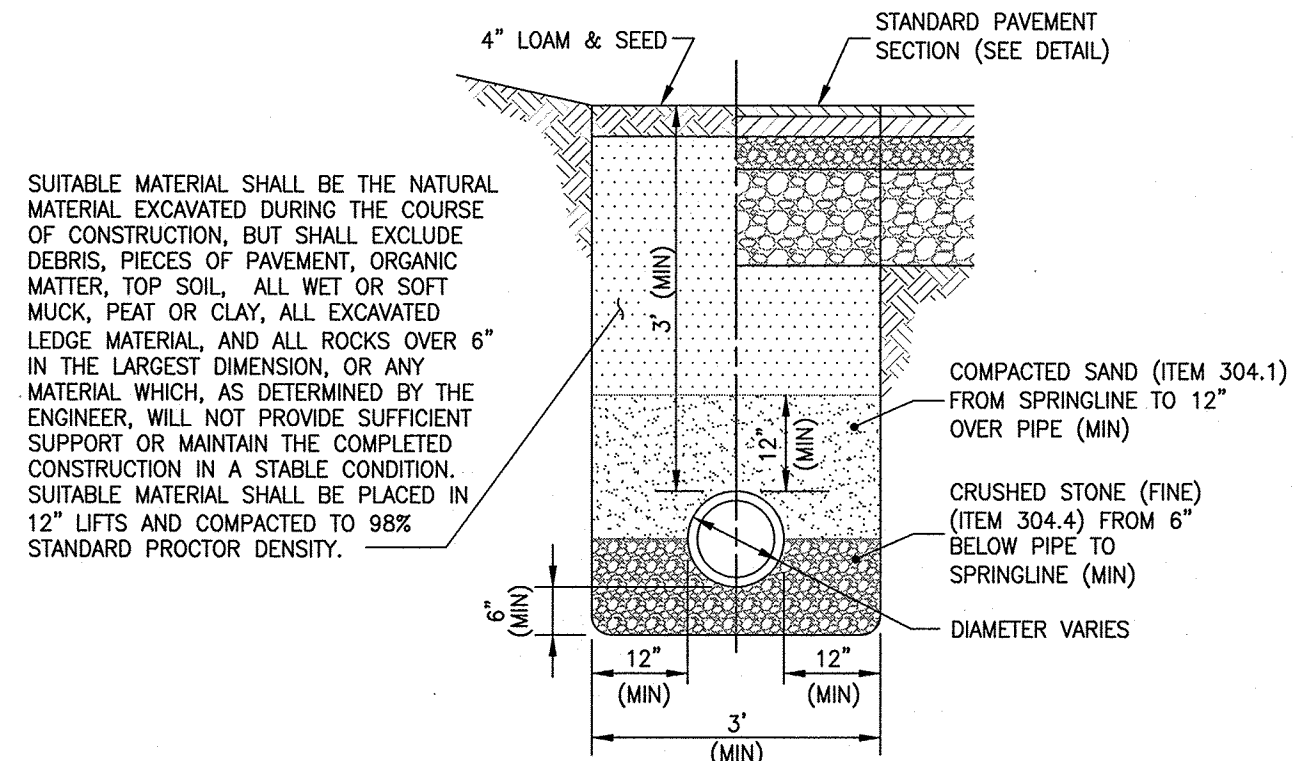
This plan is not effective unless signed by a duly authorized officer of Thomas F. Moran, Inc.





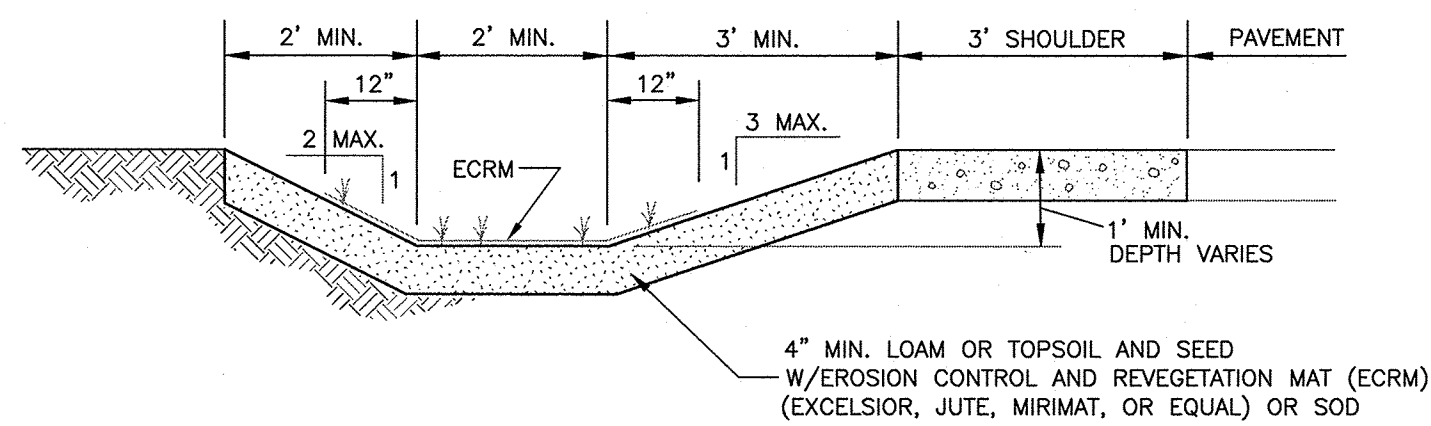
GRAVEL ACCESS ROAD

NOT TO SCALE



STORM DRAIN TRENCH

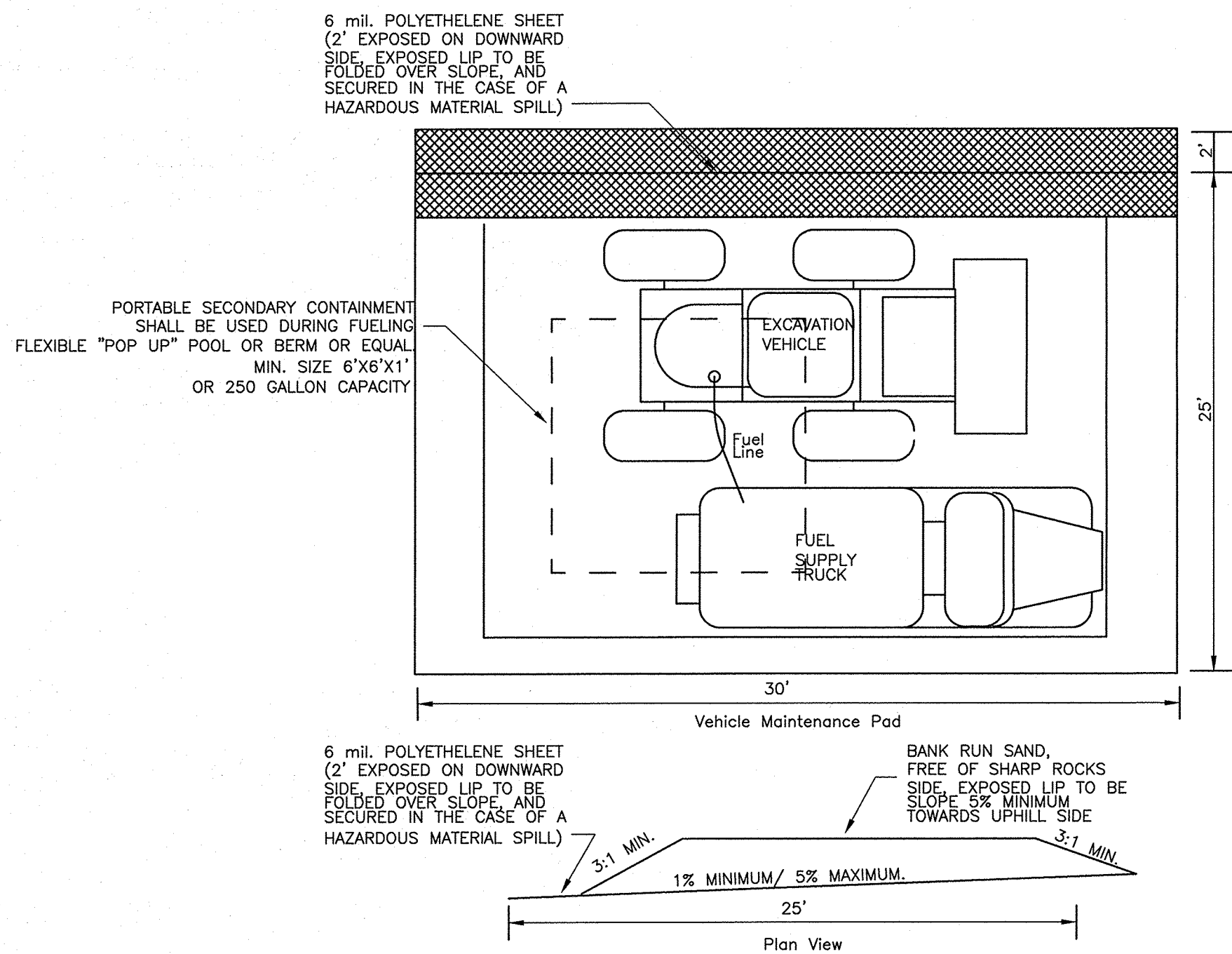
NOT TO SCALE



GRASS LINED SWALE

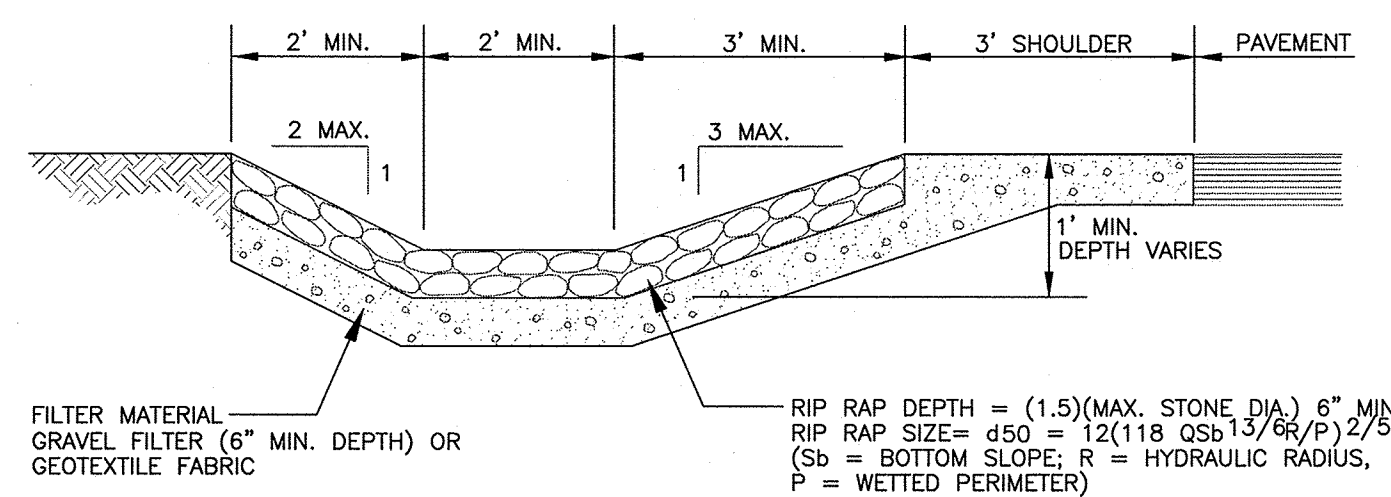
FOR USE WHERE VELOCITIES ARE 3 CFS OR LESS

NOT TO SCALE



TEMPORARY VEHICLE MAINTENANCE PAD

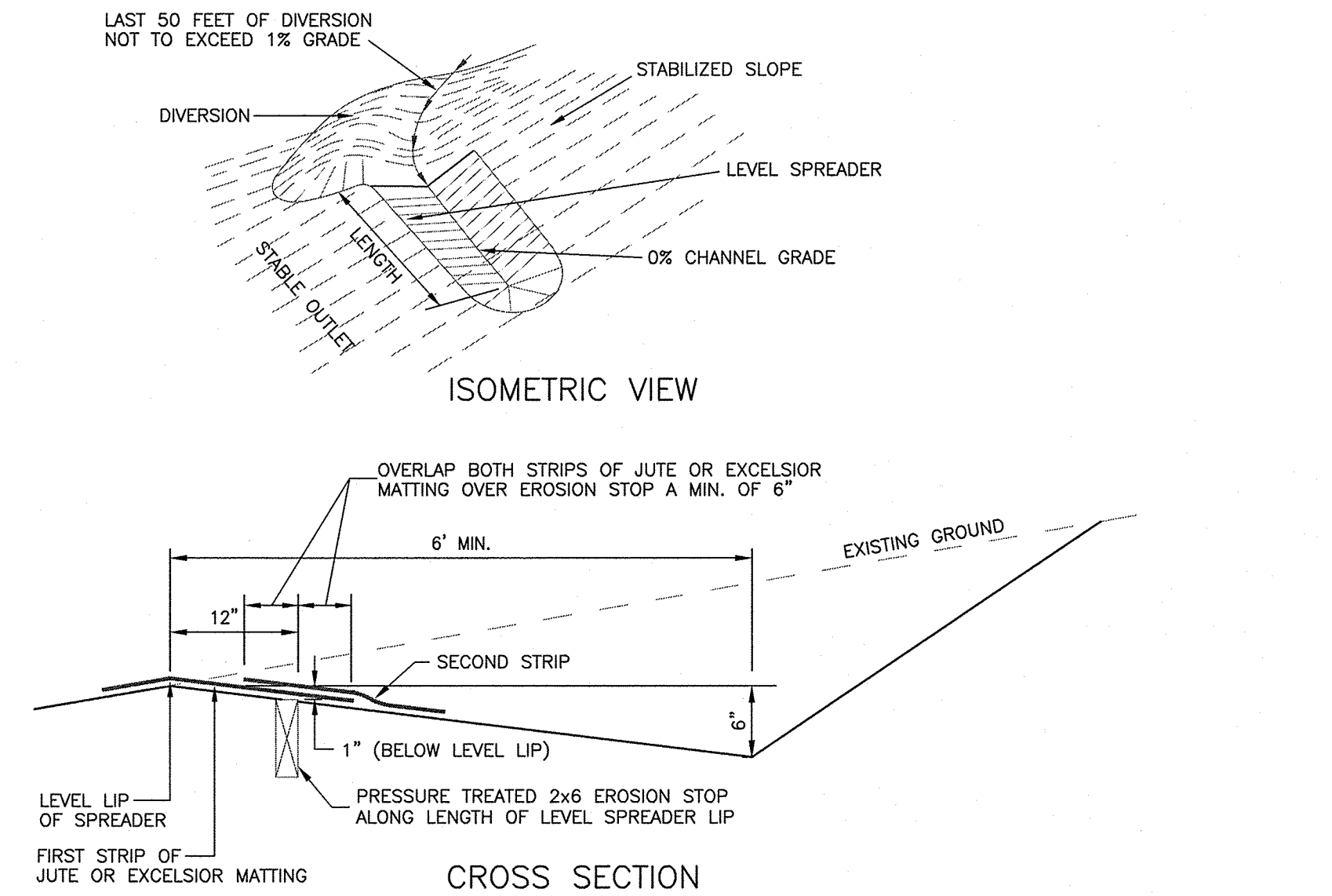
NOT TO SCALE



RIP RAP SWALE

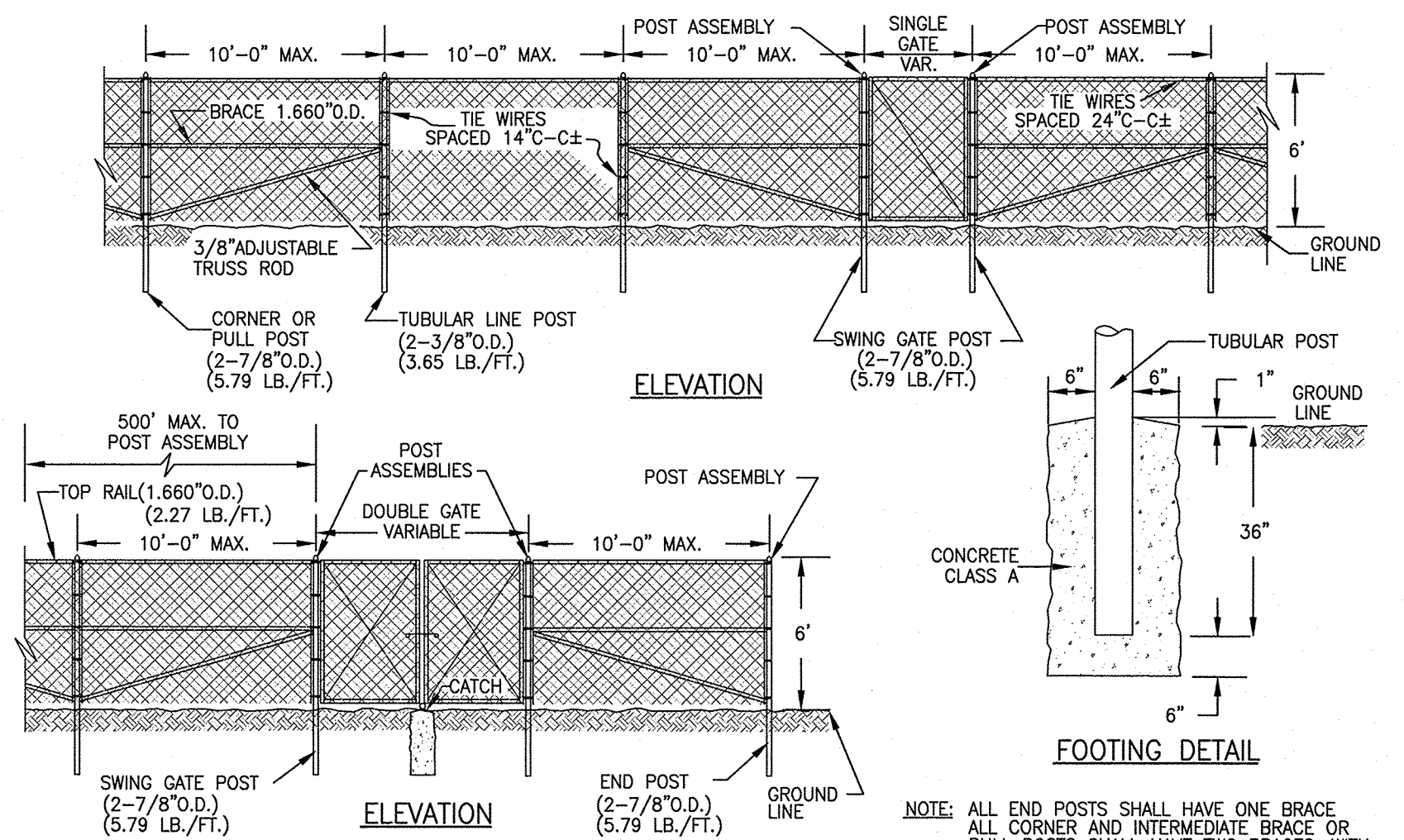
FOR USE WHERE VELOCITIES EXCEED 3 FPS

NOT TO SCALE



LEVEL SPREADER

NOT TO SCALE



CHAIN LINK FENCE DETAIL

NOT TO SCALE

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REV.	DATE	DESCRIPTION	DR	CK
4	02/15/13	PER DUBOIS & KING REVIEW	JH	JK
3	01/17/13	PER DUBOIS & KING REVIEW	JH	JK

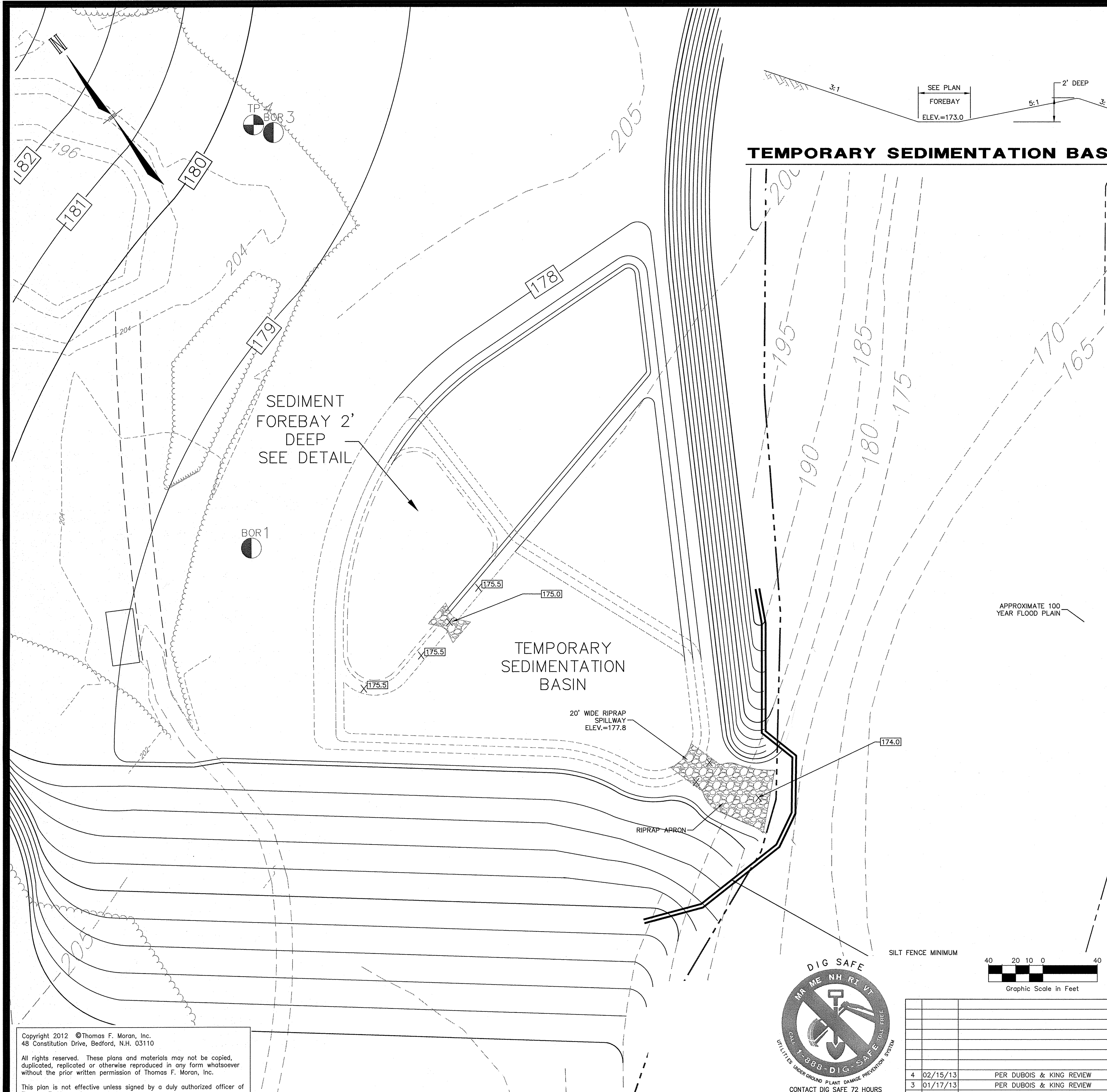
TAX MAP 210 LOT 57
DETAIL SHEET
GRAVEL EXCAVATION OPERATION
GREEN HILL ROAD, BARRINGTON, NH
OWNED BY
TRINITY CONSERVATION, LLC
PREPARED FOR
TRINITY CONSERVATION, LLC
SCALE: AS NOTED **SEPTEMBER 20, 2012**

TFM Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

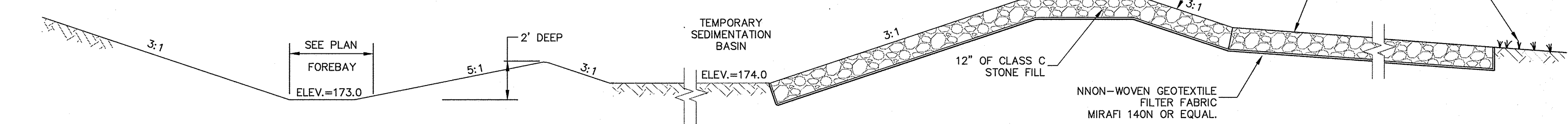
48 Constitution Drive
Bedford, NH 03110
Phone (603) 472-4488
Fax (603) 472-9747
www.tfmoran.com

47052.00 DR JH FB
OK JK CADFILE 47052-00 Details

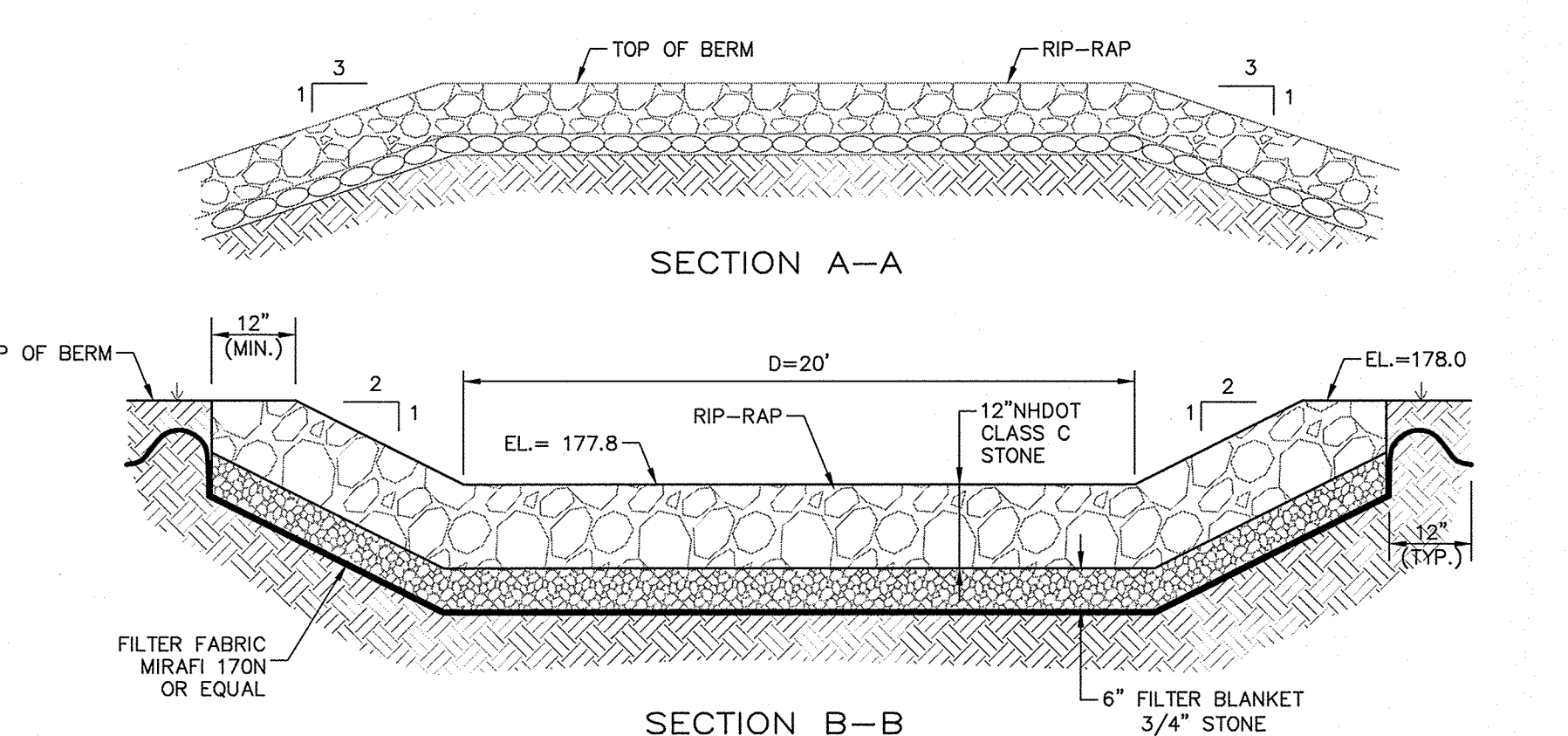
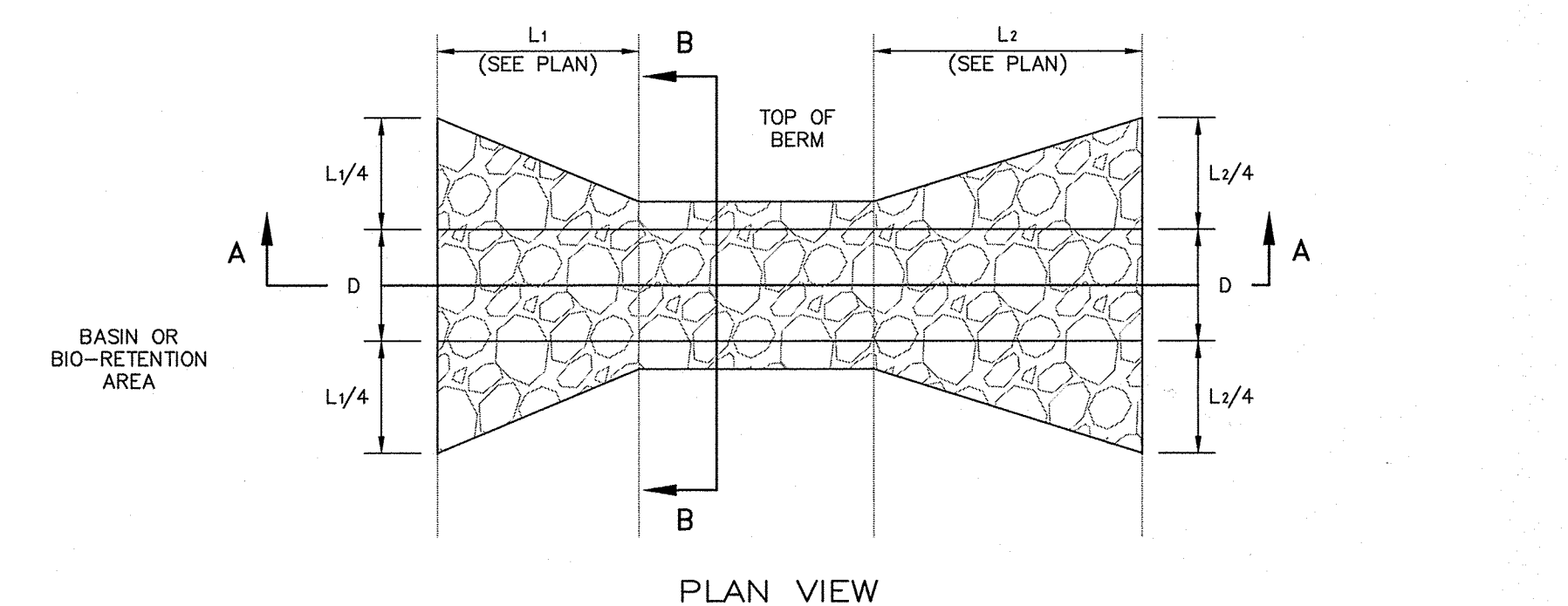
SHEET 11 OF 12



TEMPORARY SEDIMENTATION BASIN DETAIL



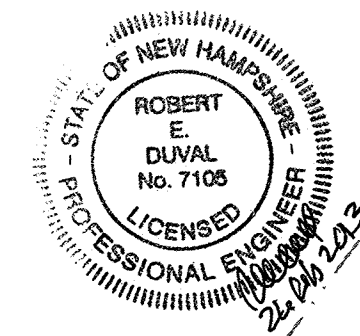
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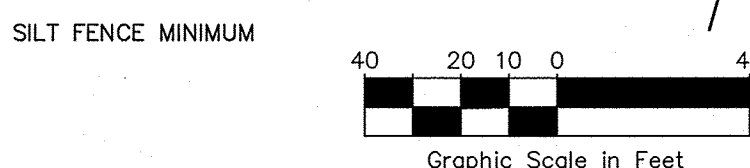
EMERGENCY SPILLWAY

NOT TO SCALE

PROPOSED	LEGEND	EXISTING
---	EDGE OF PAVEMENT	---
---	EDGE OF GRAVEL	---
---	SILT SOCK/STUMP GRINDINGS BERM	---
x201.5	SPOT GRADE	x200.5
---	INDEX CONTOUR	---
---	INTERMEDIATE CONTOUR	---
---	BROOK, STREAM OR RIVER	---
---	TREELINE	---
---	RIP-RAP	---



PLANNING BOARD APPROVAL BLOCK



REV.	DATE	DESCRIPTION	DR	CK
4	02/15/13	PER DUBOIS & KING REVIEW	JH	JK
3	01/17/13	PER DUBOIS & KING REVIEW	JH	JK

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TAX MAP 210 LOT 57

TEMPORARY SEDIMENTATION BASIN PLAN

GRAVEL EXCAVATION OPERATION

GREEN HILL ROAD, BARRINGTON, NH

OWNED BY

TRINITY CONSERVATION, LLC

PREPARED FOR

TRINITY CONSERVATION, LLC

SCALE: 1"=40'

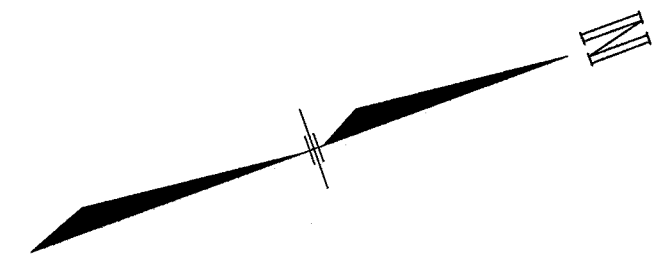
SEPTEMBER 20, 2012

Civil Engineers
Structural Engineers
Traffic Engineers
Land Surveyors
Landscape Architects
Scientists

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Bedford, NH 03110
Phone (603) 472-4488
Fax (603) 472-9747
www.tfmoran.com

FILE	47052.00	DR	JH	FB	---
		OK	JK	CADFILE	47052-00 Site

SHEET 12 OF 12



FILE	47052.00	DR	JH	FB	-	SHEET 1 OF 1
		CK	JK	CADFILE	47052-00 Site	