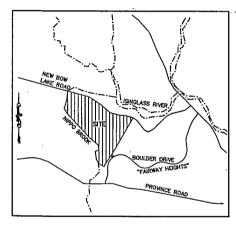
TAX MAP 215 LOT 1 RIVER'S PEAK RESIDENTIAL DEVELOPMENT

OWNER/APPLICANT:

CABERNET BUILDERS P.O. BOX 291 STRATHAM, N.H. 03885



LOCATION MAP

JAMES P. GOVE GOVE

WETLAND/SOIL CONSULTANT:

GOVE ENVIRONMENTAL SERVICES INC.
8 CONTINENTAL DRIVE,
BLDG 2 UNIT H
EXETER, NH 03843

PRIOR STATE APPROVALS:

NHDES STATE SUBDIVISION APPROVAL #: SA2005006120-A DATED 9/26/2005
NHDES SITE SPECIFIC PERMIT #: WPS 7162A DATED 2/6/2006



CIVIL ENGINEERS:

BEALS · ASSOCIATES PLLC

70 PORTSMOUTH AVE,
STRATHAM, NEW HAMPSHIRE
PHN. 603-583-4860, FAX. 603-583-4863

LAND SURVEYORS:



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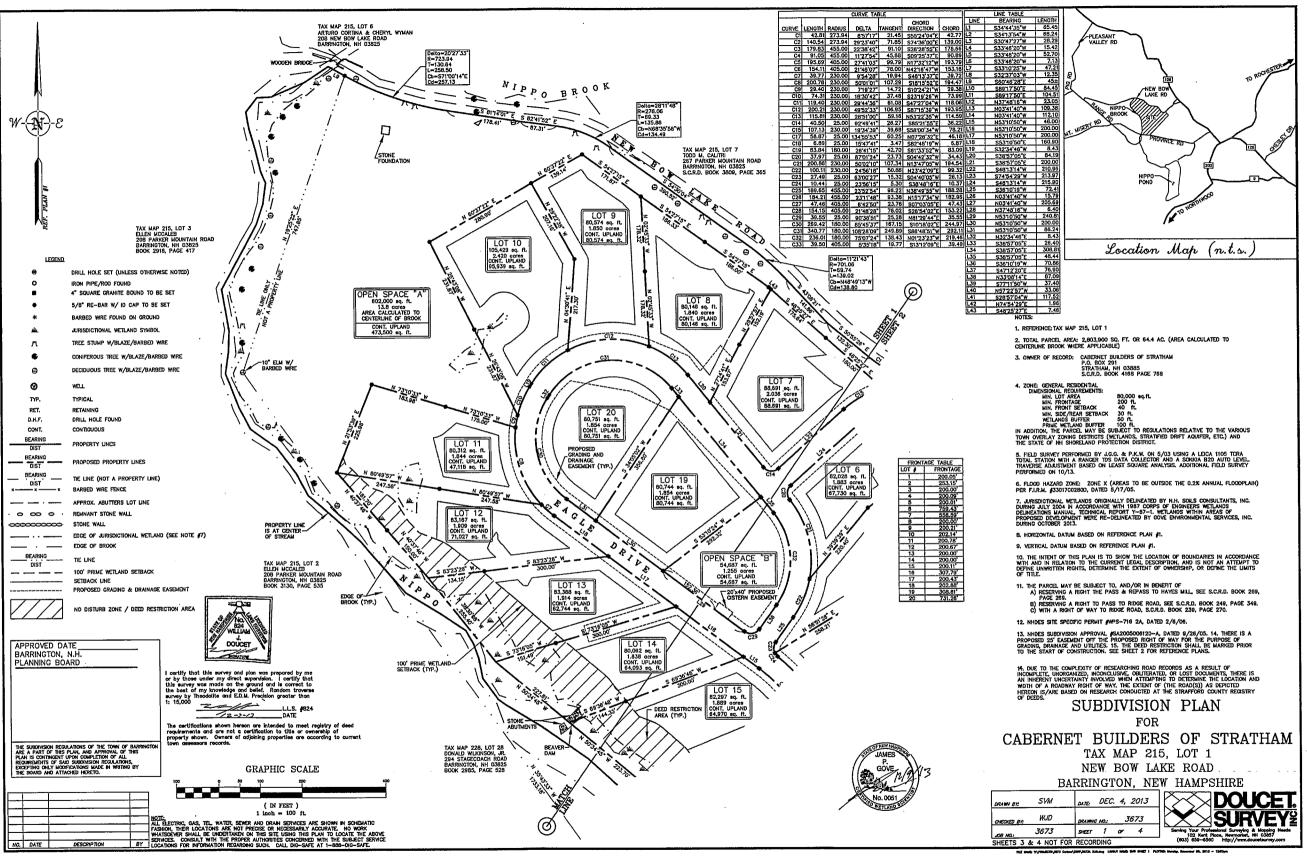
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PLAN SET LEGEND

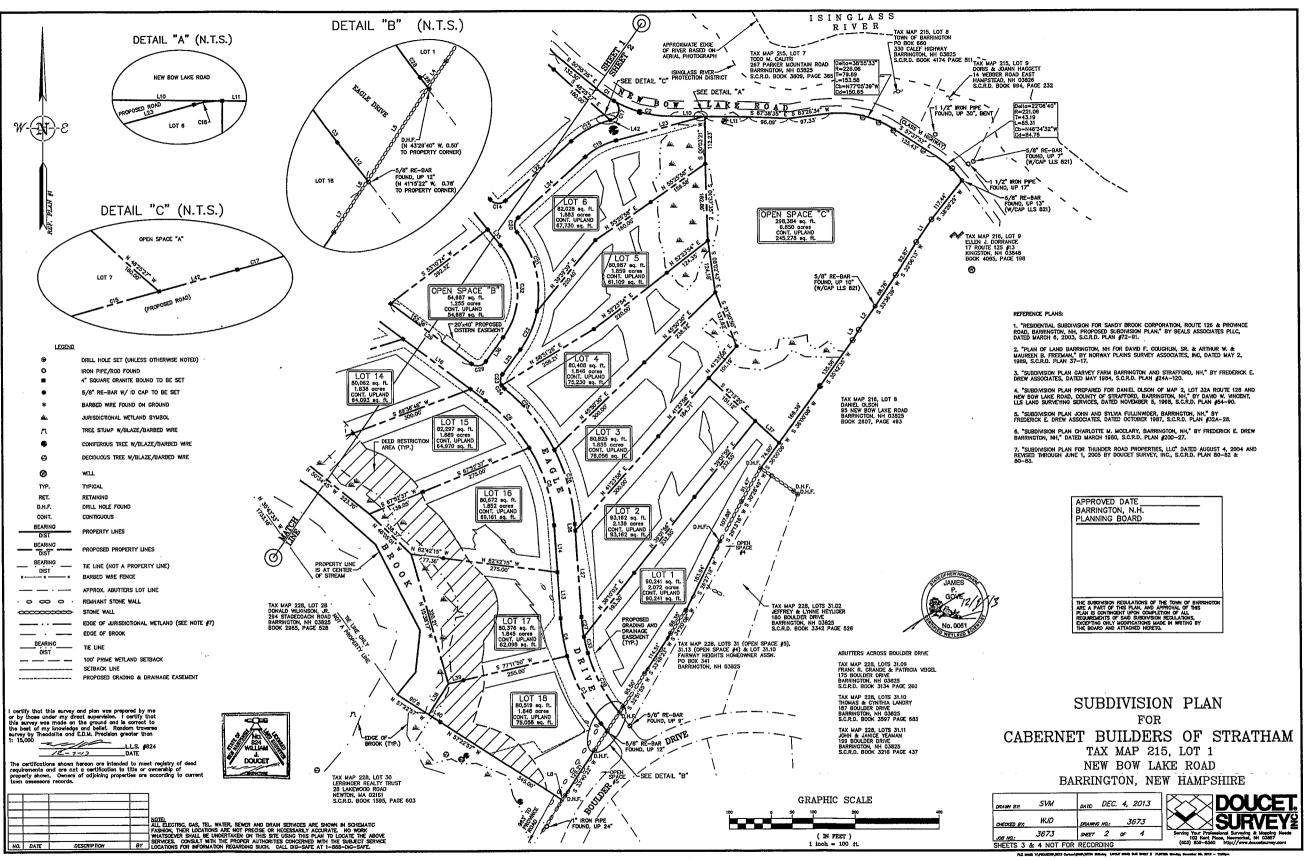
TILITY POLE	മ	FENCING	x
XISTING LIGHT POLE	\$	DRAINAGE LINE	D
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XISTING HYDRANT	**	TREE LINE	\cdots
INGLE POST SIGN	~	ABUT. PROPERTY LINES	
INES, ETC.	*	EXIST. PROPERTY LINES	
APLES, ETC.	€	BUILDING SETBACK LINES	
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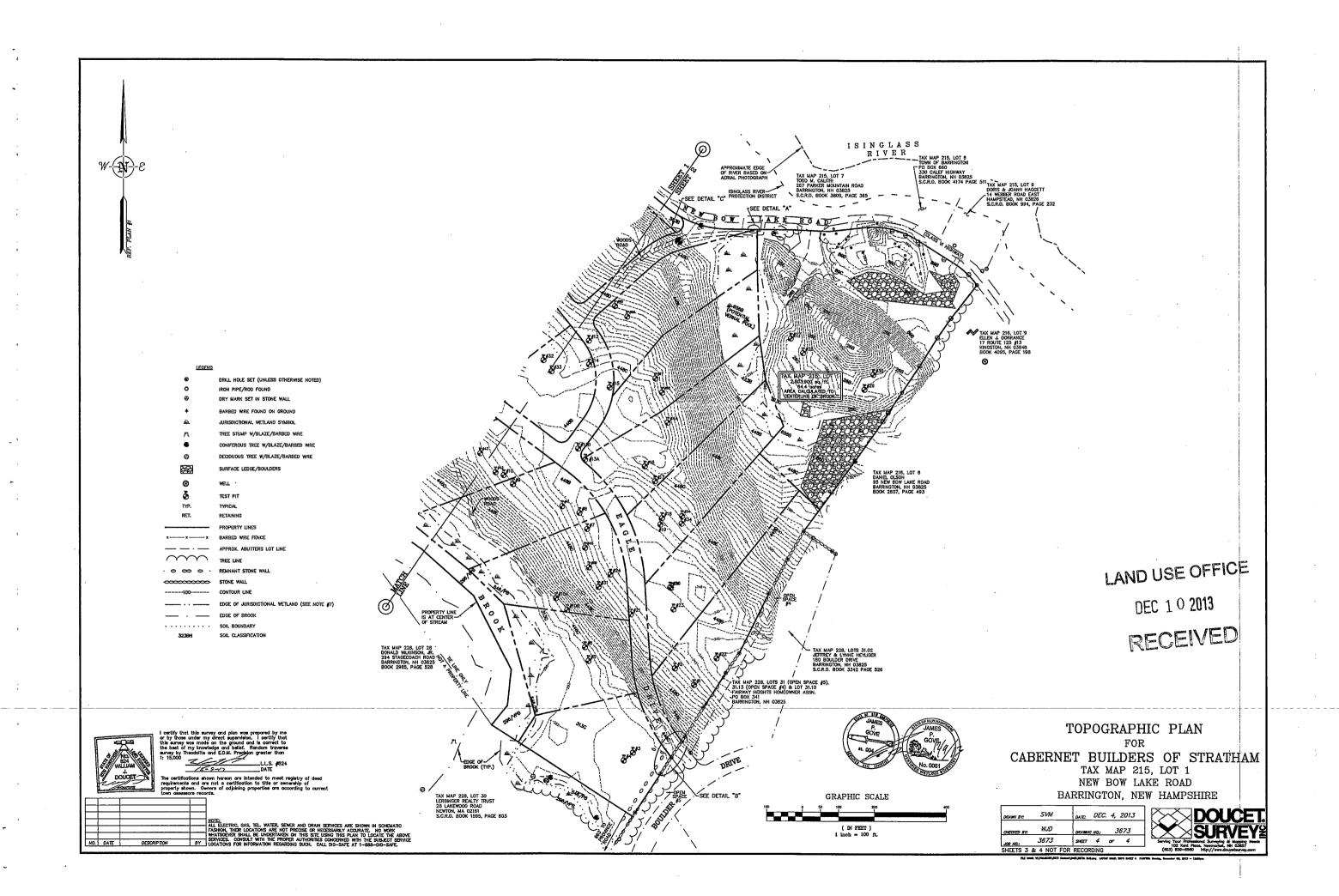
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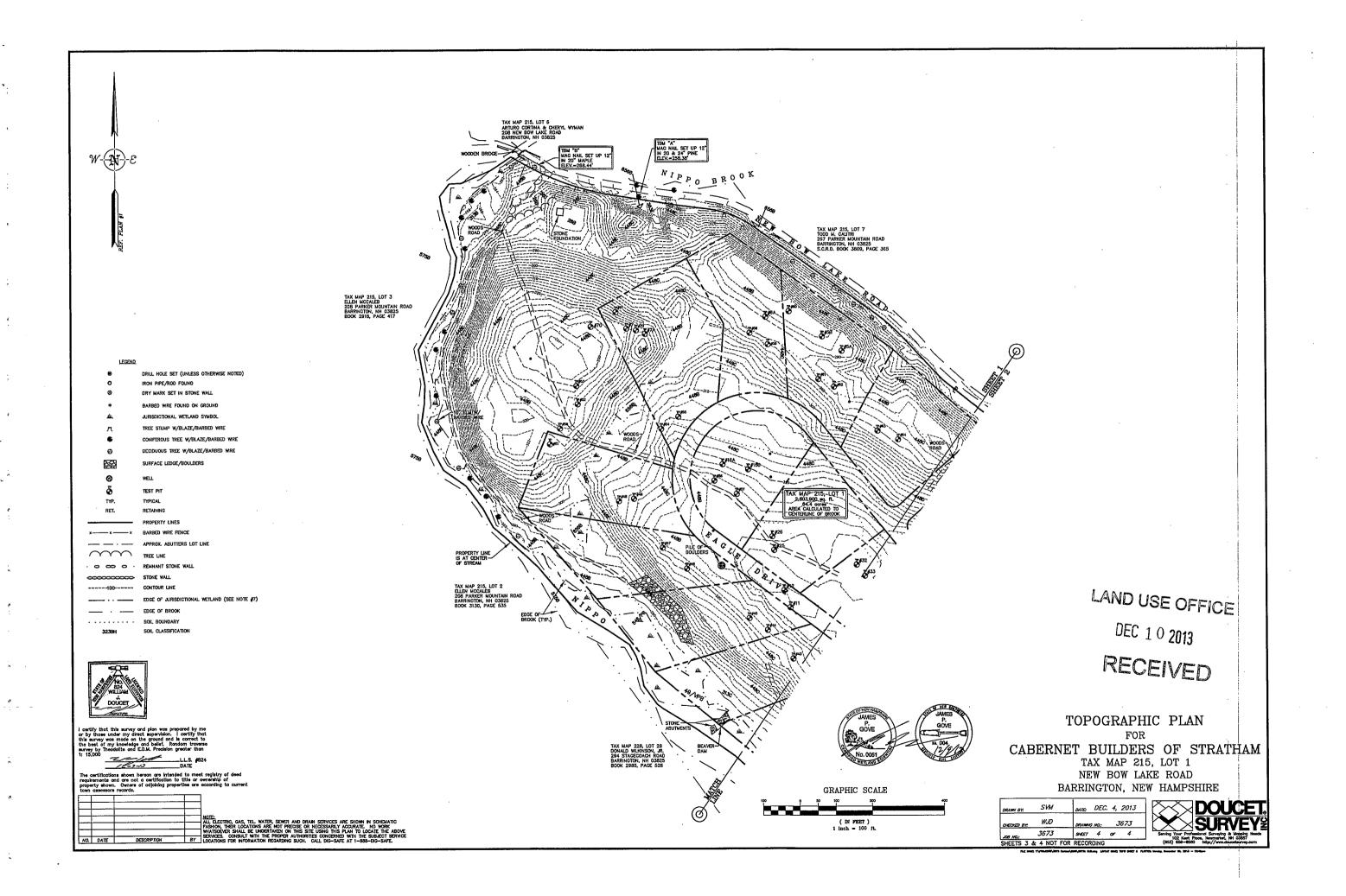


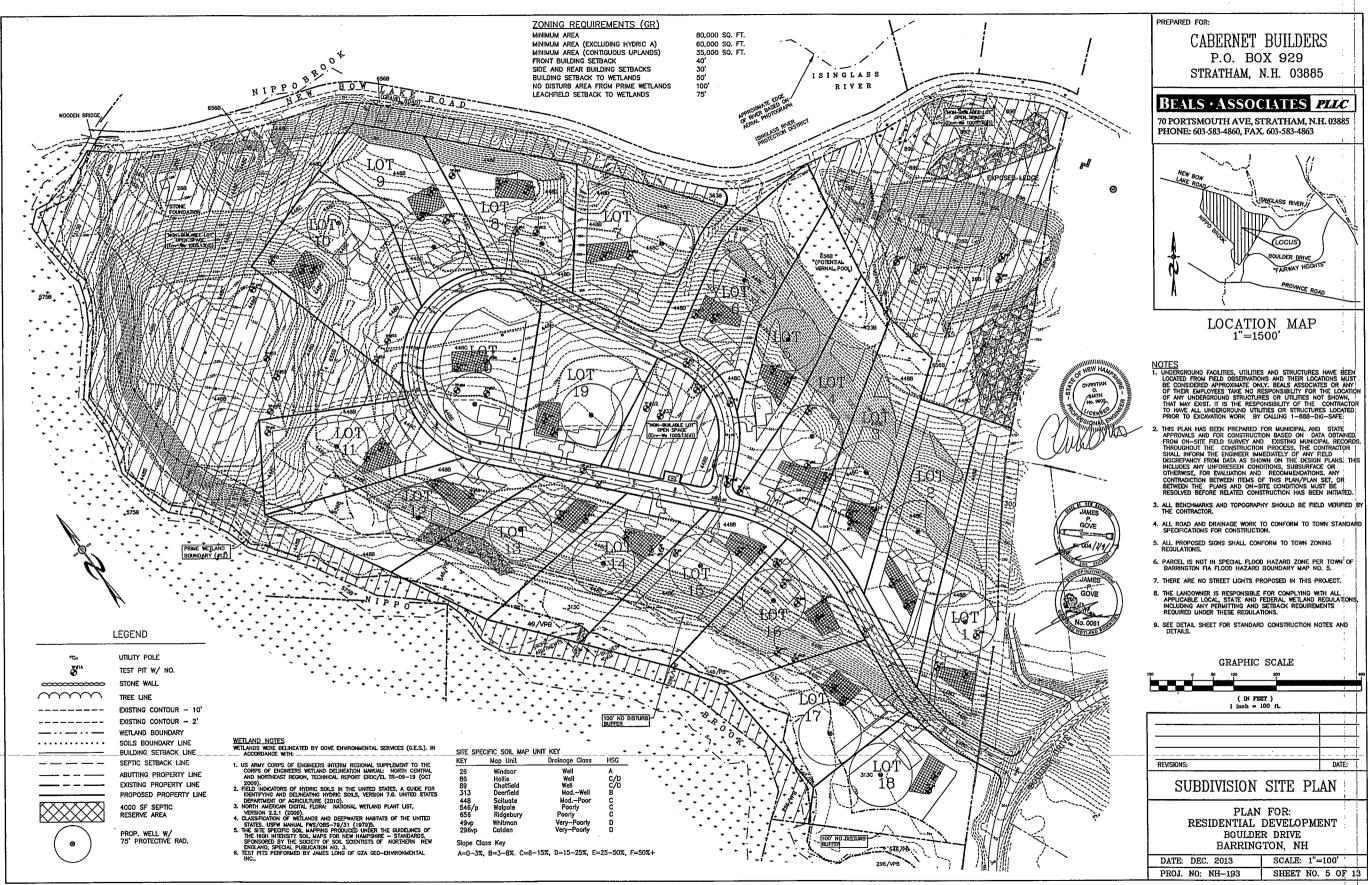
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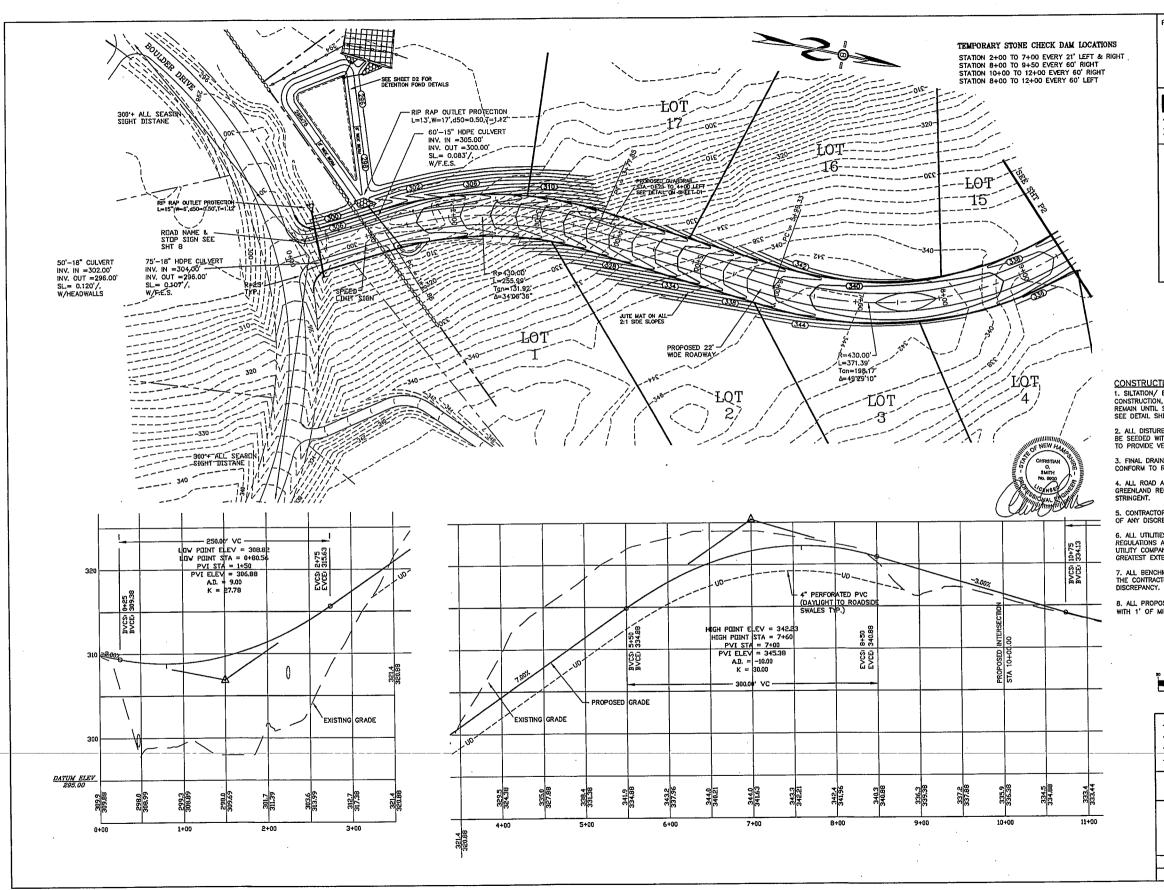






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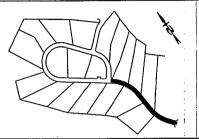


PREPARED FOR:

CABERNET BUILDERS P.O. BOX 929 STRATHAM, N.H. 03885

BEALS · ASSOCIATES PLLC

70 PORTSMOUTH AVE, STRATHAM, N.H. 03885 PHONE: 603-583-4860, FAX. 603-583-4863



LOCATION LEGEND 1"=500"

PROFILE SCALES: HORIZONTAL: 1"=40' VERTICAL: 1"=4'

CONSTRUCTION NOTES

CONSTRUCTION TAGTES

I. SILTATION/ EROSION CONTROLS SHALL BE INSTALLED PRIOR TO
CONSTRUCTION, SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL
REMAIN UNTIL SITE HAS BEEN STABILIZED WITH PERMANENT VEGETATION. SEE DETAIL SHEET FOR ADDITIONAL NOTES ON EROSION CONTROL.

2. ALL DISTURBED AREAS NOT TO FINAL GRADE BY MID-NOVEMBER SHALL BE SEEDED WITH WINTER RYE OR ACCEPTABLE SUBSTITUTE AND MULCHED TO PROVIDE VEGETATION COVER.

3. FINAL DRAINAGE, GRADING AND EROSION PROTECTION MEASURES SHALL CONFORM TO REGULATIONS OF THE GREENLAND SUBDIVISION REGULATIONS.

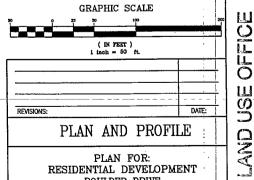
4. ALL ROAD AND DRAINAGE WORK TO BE DONE IN CONFORMANCE WITH GREENLAND REGULATIONS AND NHOOT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

5. CONTRACTOR TO VERIFY EXISTING UTILITIES AND TO NOTIFY ENGINEER OF ANY DISCREPANCY IMMEDIATELY.

6. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH REGULATIONS AND SPECIFICATIONS AS APPROVED BY THE APPROPRIATE UTILITY COMPANY. LOW PROFILE STRUCTURES SHALL BE USED TO THE GREATEST EXTENT POSSIBLE.

7. ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR. ENGINEER TO BE NOTIFIED IMMEDIATELY OF ANY

8. ALL PROPOSED DRIVEWAYS WILL REQUIRE A 12" ADS DRIVEWAY CULVERT WITH 1' OF MIN. COVER



PLAN FOR: RESIDENTIAL DEVELOPMENT BOULDER DRIVE BARRINGTON, NH

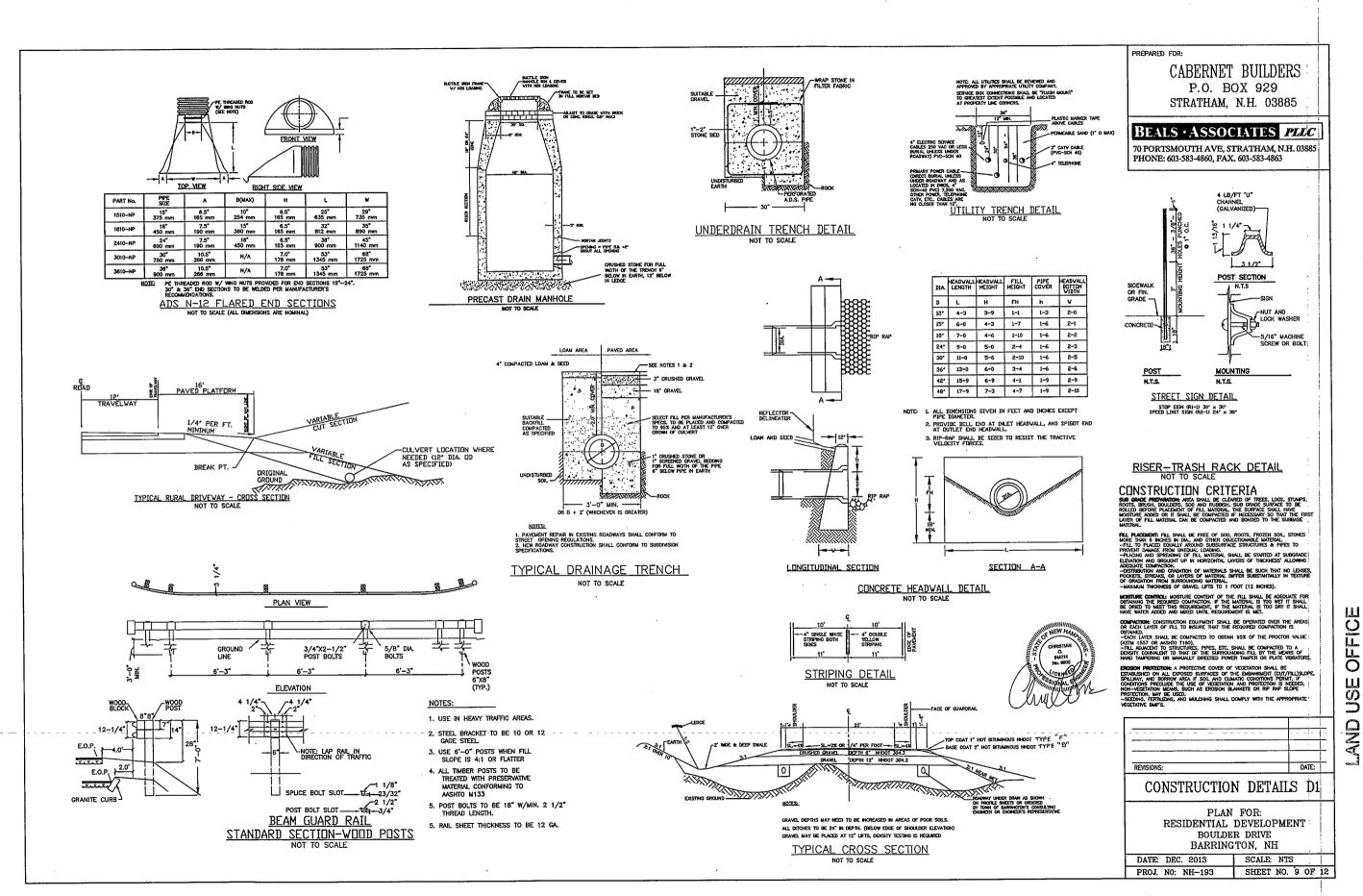
SCALE: 1"=100' DATE: DEC. 2013 PROJ. NO: NH-193 SHEET NO. 6 OF 13

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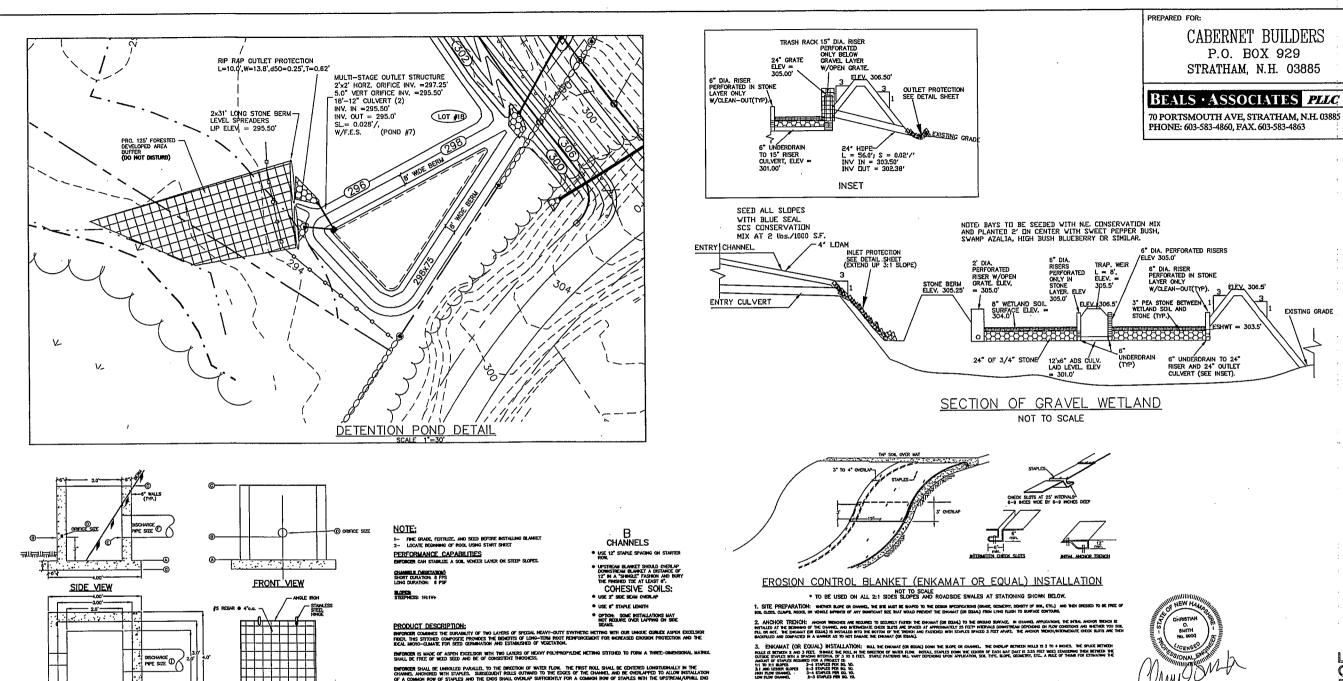
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NFORCER EROSION CONTROL BLANKET

STAPLE AT EDGES, CORNERS AND

TOP VIEW

POND #7 295.25' 295.50' 297.25'

₿

©

STAGE DISCHARGE OUTLET STRUCTURE

0

5"

E

295.50'

POND STRUCTURE COVER

(F)

12"

©

294.75

EROSION CONTROL BLANKET (ENFORCER) INSTALLATION *USED FOR SWALES AS NOTED

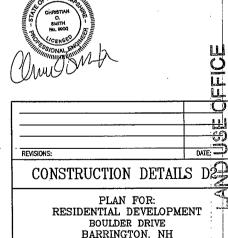
6. SEEDING: FOR HOM SOL FILMS APPLICATION, INCOCAST SEED OR HORROSEED OHER INSTALLED MAT, LAVE SURE HORROSELS COURS AFTER RECEIVE TO DEVINE THE SEED REACHES TO DEVINE THE SEED REACHES TO DEVINE AS EXTER ESTRACEORD ONE FRANCISCO CHARLES AND RECEIVED TO DEVINE AS EXTER ESTRACEORD ONE FRANCISCO CHARLES AND RECEIVED MATERIAL SEED AND PRIVATE DESIGNATION OF THE PORT OF THE SEED AS A CHARLES SEED AND PRIVATE SEED AND PRIVATE AND PRIVATE AND PRIVATION OF THE PORT OF THE PORT OF THE PORT OF THE SEED AS A CHARLES SEED AND PRIVATE SEED AND PRIVATE AND PRIVATE SEED AND

CONSTRUCTION GUIDELINES FOR ALL WORK WITHIN WETLANDS

ANCHORDED DEVICES: Through the device of A 5" x 1" x 5" methy, stance used, when supplied due, condenses are coord, use 6" x 1" x 5" or 12" x 1.5" x 12" methy.

PLCS, 15" find with 1.5" complete business, or 12-30" 3-30 methy (name A 1/4" complete other stances on the fluidh with the chound supplied.

- 3 ALL OF THESE CROSSINGS WILL BE PROTECTED WITH SILT FENCING, HAY RALES AND GRANGE CONSTRUCTION FENCING.
- 4. DURING CONSTRUCTION OF ALL WETLAND CROSSINGS AND AT THE ENTRANCE OFF TO ROUTE 16, THE OWNER AND/OR THE TOWN OF BARRINGTON WILL HAVE A QUALIFIED REPRESENTATIVE ON-SITE TO INSPECT THE PROCESS AND VERIFY THAT ALL THE PROPER EFFORTS HAVE BEEN MADE TO MINIMIZE OR ELIMINATE ERRITHER MACH TO THE ADJACENT WETLANDS.
- 5. THE VEGETATED TREATMENT SWALE ADJACENT TO ROUTE 128 WILL BE LINED WITH SOO, RATHER THAN SEEDED, TO PROVIDE INSTANT STABILIZATION.



DATE: DEC. 2013

PROJ. NO: NH-193

O 1 1 Ö DATE:

SCALE: NTS

SHEET NO. 10 OF 12

EXISTING GRADE

OPEN SPACE

BEALS · ASSOCIATES PLLC

70 PORTSMOUTH AVE. STRATHAM, N.H. 03885 PHONE: 603-583-4860, FAX. 603-583-4863

.30-

CISTERN SPECIFICATIONS

- 1. THE CISTERN SHALL BE DESIGNED TO BE TROUBLE FREE, AND IT SHALL BE DESIGNED
- TO LAST 50 YEARS.

 2. THE MINIMUM CAPACITY SHALL BE 10,000 GALLONS, DEPENDING ON THE DEVELOPMENT LAYOUT/CONFIGURATION, ADDITIONAL GALLON REQUIREMENTS MAY BE IMPOSED AT THE DISCRETION OF THE FIRE CHIEF. ALL EXCEPTIONS, ADDITIONS, OR
- DELETIONS WILL BE IN WRITING.
 3. THE SUCTION CAPACITY SHALL BE CAPABLE OF DELIVERING 1,000 GALLONS PER
- MINUTE (GPM) FOR THREE-QUATERS OF THE CISTERN CAPACITY.
 4. THE ENTIRE CISTERN AND APPURTENANCES SHALL BE RATED FOR HS-20 HIGHWAY LOADING.
- LOADING.

 5. DRAWINGS OF THE DESIGN ARE FOR ESTIMATING GENERAL REQUIREMENT AND DESIGN PURPOSES ONLY AND ARE NOT INTENDED FOR USE AS DESIGN.

 6. EACH CISTERN SHALL BE DESIGNED, SITED TO THE PARTICULAR LOCATION, STAMPED
- BY A REGISTERED ENGINEER, AND APPROVED BY THE FIRE CHIEF.

 7. ALL SUCTION AND FILL PIPING SHALL BE AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) SCHEDULE 40 STEEL ALL VENT PIPING SHALL BE ASTM SCHEDULE 40 STEEL WITH WELDED JOINTS. ALL PIPING LOCATED WITHIN THE TANK SHALL BE ASTM SCHEDULE 40 STEEL WITH WELDED JOINTS. ALL PIPING LEADING FROM THE TANK TO
- THE HYDRANT SHALL BE ASTM SCHEDULE 40 STEEL.

 B. THE FINAL SUCTION CONNECTION SHALL BE FIVE INCH PUMPER NOZZLE WITH A CAP.
 THE SUCTION PIPE SHALL BE BRACED TO ENSURE DURABILITY DURING PUMPING OPERATIONS. THE FIRE CHIEF SHALL APPROVE BRACE CONFIGURATION AND INSTALLATION, THE FIRE CHIEF SHALL APPROVE BRACE CONFIGURATION AND INSTALLATION, THE SUCTION PIPE CONNECTION SHALL BE TWENTY-FOUR INCHES ABOVE THE LEVEL OF THE VEHICLE PAD WHERE VEHICLE WHEELS WILL BE LOCATED WHEN THE CISTERN IS IN USE.

 9. THE FILLER CONNECTION SHALL BE INTALLED INTO THE EIGHT INCH VENT WITH 4"
- MALE STEEL STORZ FITTING. THIS FITTING SHALL BE 24" ABOVE FINISH GRADE AND FACE THE ROAD. A THIRTY—TWO INCH DIAMETER MANHOLE WITH COVER WILL BE LOCATED ON TOP OF THE CISTERN. THE CONFIGURATION OF THIS MANHOLE SHALL LOCATED ON TOP OF THE CISTERN. THE CONFIGURATION OF THIS MANHOLE SHALL ALLOW THE UNIT TO BE SECURED WITH TWO PADLOCKS AND SHALL BE APPROVED BY THE FIRE CHIEF. THE PADLOCKS WILL BE SUPPLIED BY THE FIRE DEPARTMENT.

 10. THE DISTANCE FROM THE BOTTOM OF THE SUCTION PIPE TO THE PUMPER CONNECTION SHALL NOT EXCEED FOURTEEN FEET VERTICAL.

 11. ALL HORIZONTAL SUCTION PIPING SHALL SLOPE SLIGHTLY UPHILL TOWARD THE
- 12. BEDDING FOR THE CISTERN SHALL CONSIST OF A MINIMUM OF TWELVE INCHES OF 3/4" TO 1 1/2" WASHED PEA STONE, COMPACTED. NO FILL SHALL BE USED UNDER THE STONE. OVER EXCAVATION SHALL BE FILLED WITH THE SAME STONE BEDDING
- 13. ALL BACKFILL MATERIALS SHALL BE SCREENED GRAVEL WITH NO STONES LARGER THAN SIX INCHES AND SHALL BE COMPACTED TO 95 PERCENT OF .ITS ORIGINAL VOLUME IN ACCORDANCE WITH ASTM D 1557. 16. THE TOP OF CISTERN SHALL BE INSULATED WITH VERMIN RESISTANT FOAM INSULATION AND TWO FEET OF BACKFILL WITH A MINIMUM WEIGHT OF 120 PCF, COMPACTED, FOAM USED FOR THIS INSTALLATION SHALL BE CLOSED CELL POLYURETHANE FOAM WITH AN INSULATION FACTOR OF R=5 PER INCH. ALL BACKFILL SHALL EXTEND TEN FEET BEYOND THE EDGE OF THE VEHICLE PAD AND THEN HAVE A MAXIMUM OF 3:1 SLOPE, LOAM AND
- 14. BEFORE ANY BACKFILLING IS DONE THE ENTIRE CISTERN SHALL BE COMPLETED AND
- INSPECTED BY THE FIRE CHIEF.

 15. AFTER BACKFILLING, BOLLARDS OR LARGE STONES SHALL BE PLACED TO PROTECT
- THE TANK AND APPURTENANCES.

 16. THE PITCH OF THE SHOULDER AND VEHICLE PAD FROM THE EDGE OF THE PAVEMENT TO THE PUMPER SUCTION CONNECTION SHALL BE ONE PERCENT TO THREE
- PAYMENT 10 THE PUMPER SOCION CONNECTION SHALL BE ONE PERCENT 10 THE PERCENT DOWNGRADE.

 17. THE SHOULDER AND VEHICLE PAD SHALL BE OF A SUFFICIENT LENGTH TO ALLOW CONVENIENT ACCESS TO THE SUCTION CONNECTION WHEN THE PUMPER IS SET AT 45 DEGREES TO THE ROAD. THE SHOULDER AND VEHICLE PAD SECTION SHALL CONSIST OF 3" BITUMINOUS PAYING, REFER TO SITE PLAN FOR REQUIREMENTS.
- 18. THE SUCTION FITTING SHALL BE LOCATED BETWEEN 22 AND 24 FEET FROM THE NEAREST RUNNING EDGE OF ROAD PAVEMENT. TWO CONCRETE FILLED STEEL BOLLARDS SHALL BE PLACED IN A MANNER TO PROTECT THE HYDRANT. THE BASE OF THESE BOLLARDS SHALL EXTEND BELOW THE FROST LINE. THE UPPER PORTION OF THE BOLLARDS SHALL EXTEND THIRTY SIX INCHES ABOVE THE LEVEL OF THE VEHICLE PAD WHERE VEHICLE WHEELS WILL BE LOCATED WHEN THE CISTERN IS IN
- 19. ALL CONSTRUCTION, BACKFILL, AND GRADING MATERIALS SHALL BE IN ACCORDANCE WITH PROPER CONSTRUCTION PRACTICES AND SHALL BE ACCEPTABLE TO THE FIRE
- CHIEF.

 20. THE FIRE CHIEF (OR REPRESENTATIVE) AND THE ENGINEER'S INSPECTOR WILL BE NOTIFIED BY THE CONTRACTOR TO OBSERVE THE FOLLOWING POINTS OF INSTALLATION:

 A. EXCAVATION COMPLETE.
 - B. CRUSHED STONE INSTALLED AND COMPACTED
 - C. BACKFILLING COMPLETE PRIOR TO PLACEMENT OF INSULATION.
 D. PLACEMENT OF INSULATION.

 - E. START AND FINISH OF LEAKAGE TEST.
 F. PIPING MANWAYS AND BOLLARDS IN PLACE AND PAINTED.
 G. ALL BACKFILLING LOAM, SEED, ETC. COMPLETE WITH TURNOUT GRAVEL IN
- PLACE AND GRADED.

 PLACE AND GRADED.

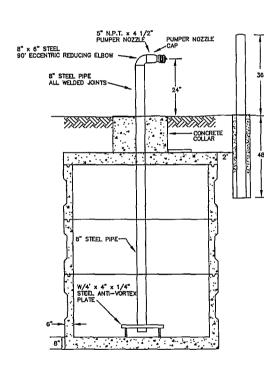
 H. PAVEMENT COMPLETE, AND ALL OTHER WORK 100% COMPLETE.

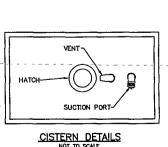
 1. THE FIRE CHIEF SHALL BE NOTIFIED OF THE DATE THAT SITE WORK IS TO BEGIN.

 22. ANY EXCEPTION, ADDITIONS, OR DELETIONS ARE DATED AND NOTED BELOW:

 23. CONCRETE MUST HAVE A MINIMUM OF 150 PCF.

- 24. STONE AND GRAVEL BACKFILL MUST HAVE A MINIMUM OF 120 PCF.



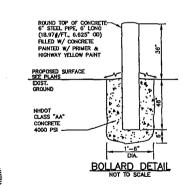


TANK BACKFILL SCREENED GRAVEL NO STONES LARGER THAN 6" DIA. 12". 3/4"-1.5" COMPACTED, CRUSHED, WASHED STONE

CISTERN #3

8" VENT PIPE FITTED WITH 4"
MALE STEEL STORTZ CONNECTION
W/ ANODIZED ALLIMINUM CAP
24" ABOVE FINISH GRADE

- 1.) 10,000 GAL. CONCRETE TANK AVAILABLE AT E.F.SHEA, NEW ENGLAND CONCRETE PRODUCTS, INC. OR EQUIV.
 2.) HYDRANT STRUCTURE AVAILABLE FROM GOULD SUPPLY OR EQUIV.
- 3.) THE INSTALLER IS RESPONSIBLE FOR FILLING THE TANKS AFTER INSTALLATION.
 4.) TANK CAPACITY: 9' x 16' x 9.5' = 1,368 Cu.FL x 7.48052 = 10,233 GALS.
- 5.) SEE TOWN OF BARRINGTON FIRE PROTECTION CISTERN SPECIFICATIONS (40 PARAGR



REVISIONS: DATE: CISTERN DETAIL SHEET D3

> PLAN FOR: RESIDENTIAL DEVELOPMENT BOULDER DRIVE BARRINGTON, NH

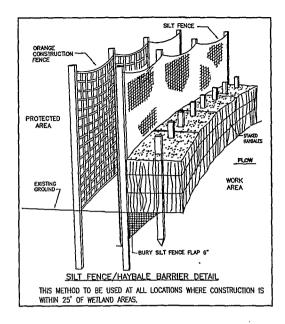
DATE: DEC. 2013 SCALE: NTS SHEET NO. 11 OF 12 PROJ. NO: NH-193

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8 24' LONG TAPER 24' LONG TAPER 60' LONG x 12' MDE OT #IA (LOT #15) CISTERN PLAN VIEW

5

O



TEMPORARY EROSION CONTROL MEASURES

1. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT NO MORE THAN 5 ACRES OF LAND SHALL BE

EPROSED BEFORE DISTURBED AREAS ARE STABILIZED.

2. EROSION, SEDIMENT AND DETERMIND MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED OR DIRECTED BY THE PHONER ALL DISTURBED AREAS SHALL BE RETURNED TO ORGINAL GRADES AND ELEVATIONS.

2. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH NOT LESS THAN 1,10 POUNDS OF SEED PER 1000 SQUARE FEET OF AREA (48 POUNDS PER ACRE) SEE SEED SPECIFICATIONS THIS SHEET.

4. SILT FENCES AND OTHER EROSION CONTROLS SHALL BE INSPECTED WRITHY AND AFER EVERY FAIN EVENT GREATER THAN 0.5"
DURING THE LIFE OF THE PROJECT. ALL DAMAGED AREAS SHALL BE REPARED, SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED.

AND DISPUSED OF. 5 AFTER AU DISTRIBUTE AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND THE

5. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORATY EROSION CONTROL MEASURES ARE TO BE REJOYED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-MEDICATION.

6. AREAS MUST BE SEDED AND MULCHED WITHIN 3 DAYS OF FINAL GRADING, PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING, OR THEOPORABLY STABILIZED WITHIN 30 DAYS OF HINTIAL DISTURBANCE OF SOIL.

• AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING IMS COCURRED:

— BASE COURSE GRANELS HAVE BEEN INSTALLED IN AREAS TO BE PAYED.

— A MINIMUM OF 85% VECETATED GROWTH HAS BEEN ESTABLISHED.

— A MINIMUM OF 3 INCHES OF MON-EROSINE MATERIAL SUCH AS RIPPAP HAS BEEN INSTALLED.

— EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

CONSTRUCTION SPECIFICATIONS

- 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 AND AIR AND WATER POLLUTION MILL BE MINIMIZED.

 3. WHEN HAY BALES SHALL BE LISED, THE BIMBER SHALL BE EMBEDDED AT LEAST 4 INCHES INTO THE SOIL. WHEN TIMBER STRUCTURES ARE USED, THE TIMBER STRUCTURES ARE USED, THE TIMBER SHALL BE CANCHARED INTO THE SOIL USING 2" X 2" STAKES DRIVEN THROUGH THE BALES AND AT LEAST 18 INCHES IN TO THE SOIL.

 4. HAY OR STRAW BALES SHALL BE ANCHORED INTO THE SOIL USING 2" X 2" STAKES DRIVEN THROUGH THE BALES AND AT LEAST 18 INCHES IN TO THE SOIL.

 5. SEDDING, FERTILIZING, AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS IN THE APPROPRIATED VEGETATIVE BUP.

 6. STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.7, THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL TAKE PRECAUTIONS IN ORDER TO PREVENT, ABATE AND CONTROL THE EMISSION OF FUGITIVE DUST INCLUDING BUT NOT LIMITED TO WETTING, COVERING, SHIELDING, OR VACUUMING.

 7. THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL TAKE PRECAUTIONS IN ORDER TO PREVENT, ABATE AND CONTROL THE EMISSION OF FUGITIVE DUST INCLUDING BUT NOT LIMITED TO WETTING, COVERING, SHIELDING, OR VACUUMING.

 8. THE NH COMMISSIONER OF AGRICULTURE PROHIBITS THE COLLECTION, POSSESSION, IMPORTATION, TRANSPORTATION, SALE, PROPAGATION, TRANSPORTATION, SALE, PROPA

CONSTRUCTION SEQUENCE

CONSTRUCTION SEQUENCE.

1. CLIT AND REMOVE TREES IN CONSTRUCTION AREAS AS REQUIRED OR DIRECTED.

2. CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS REQUIRED, EROSION, SEDIMENT AND DETENTION CONTROL FACILITIES SHALL BE INSTALLED AND STABLIZED PRIOR TO ANY EARTH MOVING OPERATION AND PRIOR TO DIRECTING RUNDER TO THEM.

3. CLEAR, CLIT, GRUE AND DISPOSE OF DEBRIS IN APPROVED FACILITIES, STUMPS AND DEBRIS ARE TO BE REMOVED FROM SITE AND DISPOSED OF PER STAR AND LOCAL REGULATIONS.

4. EXCAVATE AND STOCKPILE TOPSOIL /LOAM, ALL 'AREAS SHALL BE STABILIZED -IMMEDIATELY-AFTER GRADING.

5. CONSTRUCT TEMPORARY CLIVERTS AS REQUIRED OF DIRECTED.

6. CONSTRUCT TEMPORARY CLIVERTS AS REQUIRED OF DIRECTED.

6. CONSTRUCT THE ROADWAY/DRIVEWAYS AND ITS ASSOCIATED DRIVINGS STRUCTURES, ALL ROADWAYS, PARKING

6. CONSTRUCT THE ROADWAY/DRIVEWAYS AND ITS ASSOCIATED DRAINAGE STRUCTURES. ALL ROADWAYS, PARKING AREAS, AND CUT/FILL SLOPES SYALL BE STABILIZED AND/OR LOAMED AND SEDDED WITHIN 72-HOURS OF ACHIEVING FINISH GRADE AS APPLICABLE. SYALL BE STABILIZED AND/OR LOAMED AND SEDDED WITHIN 72-HOURS OF ACHIEVING FINISH GRADE AS APPLICABLE.

7. INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURITENANCES AS REQUIRED OR DIRECTED. ALL DISTURBED AREAS SHALL STABILIZED IMMEDIATELY AFFER GRADING.

8. BEGIN PERMANENT AND TEMPORARY SECURISH, OR DIRECTED.

8. ADALY OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE CHECK DAMS, DITCHES, SEDIMENT TRAPS, ETC. TO PREVERT ROSSON ON THE SITE AND PREVENT ANY SILTATION OF ABUTTING WATERS OR PROPERTY.

10. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION

11. COMPLETE PERMANENT SEEDING AND LANDSCAPING.

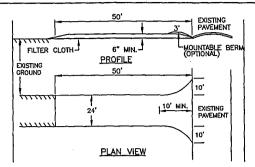
12. REMOVE TEMPORARY EROSION ON KIND OF A SEDIMENT CONTROL MEASURES DURING CONSTRUCTION

13. ALL INFLITATION BASINS, GRAVEL WEILANDS, SWALES AND DRAINAGE STRUCTURES SHALL BE CONSTRUCTED AND FULLY STRAILIZED (INCLUDING STRAILIZATION OF ALL AREAS CONTRIBUTING STORMWATER TO EACH GIVEN STRUCTURE) PRIOR TO HAVING RUNOFF DIRECTED TO THAIL.

PRIOR TO PAYING ALL ROADWAYS/ORN/EWAYS.

14. FINISH PAYING ALL ROADWAYS/ORN/EWAYS.

15. LOT DISTURBANCE OTHER THAN THAT SHOWN ON THE APPROVED PLANS SHALL NOT COMMENCE UNTIL THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.



1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.

2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.

3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.

4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS GREATER 5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTRANCE REAP PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.

6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES WAY BE SUBSTITUTED FOR THE PIPE.

7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RICHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DESSING WITH SOUTHOUGH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY. CATA THE LATED AND CONTAINED.

STABILIZED CONSTRUCTION ENTRANCE

WINTER MAINTENANCE

1. ALL DISTURBED AREAS THAT DO NOT HAVE AT LEAST 85% VEGETATIVE COVERAGE PRIOR TO OCTOBER 15TH, SHALL BE STABILIZED BY APPLYING MULCH AT A RATE OF 3-4 TONS PER ACRE. ALL SIDE SLOPES, STEEPER THAN 4:1, THAT ARE NOT DIRECTED TO SWALES OR DETENTION BASINS, SHALL BE LINED WITH BIODEGRADABLE/PHOTODEGRADABLE "JUTE MATTING" (EXCELSIOR'S CURLEX II OR EQUAL). ALL OTHER SLOPES SHALL BE MULCHED AND TACKED AT A RATE OF 3-4 TONS PER ACRE. THE APPLICATION OF MULCH AND/OR JUTE MATTING SHALL NOT OCCUR OVER EXISTING SNOW COVER. IF THE SITE IS ACTIVE ATTER NOVEMBER 15TH, ANY SNOW THAT ACCUMULATES ON DISTURBED AREAS SHALL BE REMOVED. PRIOR TO SPRING THAW ALL AREAS WILL BE STABILIZED, AS DIRECTED ABOVE.

2. ALL SWALES THAT DO NOT HAVE FULLY ESTABLISHED VEGETATION SHALL BE EITHER LINED WITH TEMPORARY JUTE MATTING OR TEMPORARY STONE CHECK DAMS (APPROPRIATELY SPACED). STONE CHECK DAMS WILL BE MAINTAINED THROUGHOUT THE WINTER MONITHS. IF THE SWALES ARE TO BE MATTED WITH PERMANENT LINERS OR RIPRAP WITH ENGINEERING FABRIC, THIS SHALL BE COMPLETED PRIOR TO WINTER SHUTDOWN OR AS SOON AS THEY ARE PROPERLY

3 PRIOR TO NOV 15TH ALL ROADWAY AND PARKING AREAS SHALL BE BROUGHT UP TO AND THROUGH THE BANK RUN 3. PRIOR TO NOV. 15TH ALE ROADWAY AND PARKING AREAS SHALL BE BROUGHT UP TO AND THROUGH HE BANK RC GRAVEL APPLICATION. IT THESE AREAS' ELEVATIONS ARE PROPOSED TO REMAIN BELOW THE PROPOSED SUBGRADE ELEVATION, THE SUBGRADE MATERIAL SHALL BE ROUGHLY CROWNED AND A 3" LAYER OF CRUSHED GRAVEL SHALL BE PLACED AND COMPACTED. THIS WILL ALLOW THE SUBGRADE TO SHED RUNDOFF AND WILL REDUCE ROADWAY EROSION. THIS CRUSHED GRAVEL DOES NOT HAVE TO CONFORM TO NH DOT 304.3, BUT SHALL HAVE BETWEEN 15-25% PASSING THE \$200 SIEVE AND THE LARGEST STONE SIZE SHALL BE 2". IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY ACCUMULATED SNOW SHALL BE REMOVED FROM ALL ROADWAY AND PARKING AREAS.

4. AFTER OCTOBER 15TH, THE END OF NEW HAMPSHIRE'S AVERAGE WING SEASON, NO ADDITIONAL LOAM SHALL BE SPREAD ON SIDE SLOPES AND SWALES. THE STOCKPILES THAT WILL BE LEFT UNDISTURBED UNTIL SPRING SHALL BE SEEDED BY THIS DATE. AFTER OCTOBER 15TH, ANY NEW OR DISTURBED PILES SHALL BE MULCHED AT A RATE OF 3-4 TOKS PER ACRE. ALL STOCKPILES THAT WILL REMAIN THROUGHOUT THE WINTER SHALL BE SURROUNDED WITH SILT FERCING.

SEEDING SPECIFICATIONS

1. GRADING AND SHAPING

A. SLOPES SHALL NOT BE STEEPER THAN 2:1;3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED. 2. SEEDBED PREPARATION

A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.

KILING OF THE PLAYTS.

B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA WHERE FEASIBLE, THE SOIL SHOULD BE ITILED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL THE SEEDBED SHOULD BE LEFT REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL

. ESTABLISHING A STAND

A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS, WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING WINIMUM AMOUNTS SHOULD BE APPLIED

AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS PER 1,000 SQ. FT..

NITROGEN(N), 50 LBS PER ACRE OR 1, 1 LBS PER 1,000 SQ.FT.

PHOSPHATE(P205), 100 LBS PER ACRE OR 2. 2 LBS PER 1,000 SQ.FT.

POTASH(K20), 100 LBS PER ACRE OR 2, 2 LBS PER 1,000 SQ.FT.

(NOTE: THIS IS THE EQUINALENT OF 500 LBS PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS PER ACRE OF 5-10-10.)

5-10-10.)

8. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING, WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.

C. REFER TO TABLE(G-E1 THIS SHEET) FOR APPROPRIATE-SEED MIXTURES AND TABLE(H-E1 THIS SHEET) FOR RATES OF SEEDING, ALL LEGUMES (CROWN VETCH, BIRDS FOOT TREFOIL, AND FLAT PEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT.

D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.

A HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.

B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90 LBS PER 1000 SQ. FT.

MAINTENANCE TO ESTABLISH A STAND
A PLANTED AREA SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH
A PLANTED AREA SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIAL STAKE 2 TO 3 YEARS TO

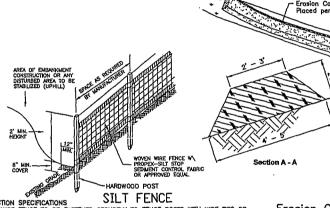
C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE RECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

KEY STONE INTO CHANNEL BANKS AND EXTEND BEYOND ABUTMENTS A 18" MINIMUM OF 18" TO PREVENT FLOW AROUND THE DAM. L= THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION FLOW SPACING BETWEEN STRUCTURES

MANITHMACE

TEMPORARY GRADE STABILIZATION STRUCTURES SHOULD BE CHECKED AFTER EACH RINIFALL AND AT LEAST
DAILY DIRING PROLONGED STORMS. ANY NECESSARY REPAIRS SHOULD BE MADE MMEDIATELY, PARTICULAR
ATTENTION SHOULD BE GIVEN TO PEN RUN AND PERSONA IT THE DOWNSTREAM TOE OF THE STRUCTURE
HE STRUCTURES ARE REMOVED, THE DISTURBED PORTION SHOULD BE BROUGHT TO THE EXISTING CHANNEL
GRADE AND THE AREAS PREPAIRED, SEEDED AND MULLICHD, WHILE THIS PRACTICE IS NOT INTENDED TO BE
USED PRIMARILY FOR SEDIMENT THAPPING, SOME SEDIMENT WILL ACCUMULATE BEHIND THE STRUCTURES.
SEDUMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT HAS ACCUMULATED TO ONE HALF OF
THE ORIGINAL HEIGHT OF THE STRUCTURE.

TEMPORARY STONE CHECK DAM



CONSTRUCTION SPECIFICATIONS CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8". 2. THE FENCE POSTS SHALL BE A MINIMUM A8" LONG, SPACED A MAXIMUM 10" APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND.

3. WHEN THO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.

BY-PASSING.

4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SLIT FENCE AND PROPERLY DISPOSED OF.

5. PLACE THE ENDS OF THE SLIT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.

6. SLIT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE CHIGMEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED

MANITENANCE

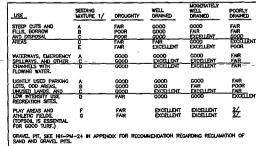
1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.

2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.

3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.

DARKHER. 4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SEEDING GUIDE



1/ refer to seeding maxtures and rates in table 7–36. 27 Poorly dramed soils are not desirable for use as playing area and athletic fields.

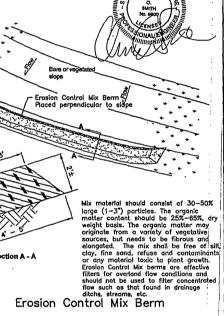
NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR DATS AT A RATE OF 25 LBS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO OCT. 15, IF PERMANENT SEEDING NOT YET COMPLETE.

CABERNET BUILDERS P.O. BOX 929 STRATHAM, N.H. 03885

PREPARED FOR:

BEALS · ASSOCIATES PLLC

70 PORTSMOUTH AVE, STRATHAM, N.H. 03885 PHONE: 603-583-4860, FAX, 603-583-4863



SEEDING RATES POUNDS PER ACRE POUNDS PER MIXTURE. L TALL FESCUE CREEPING RED FESCUE RED TOP TOTAL 0.45 0.45 0.05 0.95 . TALL FESCUE CREEPING RED FESCUE CROWN VETCH 0.35 0.25 0.35 OR FLAT PEA TOTAL 30 0.75 40 0R 55 0.95 0R 1.35 TALL FESCUE CREEPING RED FESCUE BIRDS FOOT TREFOIL TOTAL D. TALL FESCUE FLAT PEA TOTAL E. CREEPING RED FESCUE 1/ KENTUCKY BLUEGRASS 1/ TOTAL 1.15 1.15 2.30 F. TALL FESCUE 1 150 3.60

ON O DATE: REVISIONS: **EROSION & SEDIMENTATION**

PLAN FOR: RESIDENTIAL DEVELOPMENT BOULDER DRIVE BARRINGTON, NH

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	DATE: DEC. 2013	SCALE: NTS	I	
	PROJ. NO: NH-193	SHEET NO. 12	OF	12