MEADOW COURT SUBDIVISION TAX MAP 224, LOT 310



CIVIL ENGINEERS:

BEALS · ASSOCIATES PLLC

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



LAND SURVEYORS:

DAVID W. VINCENT, LLS LAND SURVEYING SERVICES PO BOX 1622 DOVER, NH 03821 1-603-664-5786

WETLAND / SOIL CONSULTANT:

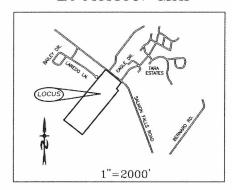
GOVE ENVIRONMENTAL SERVICES INC. 8 CONTINENTAL DRIVE, BLDG 2 UNIT H EXETER, NH 03833 1-603-778-0644



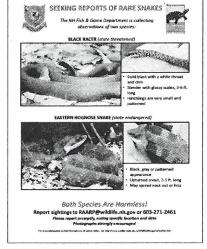
PLAN SET LEGEND

	PLAN SET	LEGEND	
5/8" REBAR DRILL HOLE CONC. BOUND UTILITY POLE DRAIN MANHOLE SEWER MANHOLE EXISTING LIGHT POLE EXISTING CATCH BASIN PROPOSED CATCH BASIN WATER GATE WATER SHUT OFF HYDRANT PINES, ETC.	● ● □ ▷ ◎ ❷ ⇔ □ ● ≈ 及ぐなが	OVERHEAD ELEC. LINE FENCING DRAINAGE LINE SEWER LINE GAS LINE WATER LINE STONE WALL TREE LINE ABUT. PROPERTY LINES EXIST. PROPERTY LINES BUILDING SETBACK LINES	
MAPLES, ETC. EXIST. SPOT GRADE PROP. SPOT GRADE SINGLE POST SIGN PROPOSED LIGHT POLE	••••••••••••••••••••••••••••••••••••••	EXIST. CONTOUR PROP. CONTOUR SOIL LINES WETLAND LINES WETLAND SETBACK LINE	100
THOTOSED EIGHT TOLL	-	WEIGHTD SEIDHOR EINE	

LOCATION MAP







		*	EASTERN BOX TURTLE (species of special concern
1		Ù.	Small terrestrial turtle with highly domed shell and variable pattering irregular yellow or orange markings over brown/black base
		See-	
	- 3	12,00	BLANDING'S TURTLE (state endangered)
			Large, dark/black domad shell with lighter speckles Distinct yellow throat/chin Aquatic but often moves

RECORD OWNER/DEVELOPER

J&L TERRA HOLDINGS, INC. 79 EXETER ROAD N. HAMPTON, N.H. 03862

INDE'X	
TITLE SHEET	
SUBDIVISION BOUNDARY PLAN	1 - 3
EXISTING CONDITION PLAN	4
SUBDIVISION SITE PLAN	5
DRIVEWAY ACCESS PLANS	6 - 7
PLAN & PROFILES	8-10
DRAINAGE BASIN PLAN	12
CONSTRUCTION DETAILS	13
UTILITY DETAILS	14 - 15
EROSION & SEDIMENT	16
CONTROL DETAILS	
ROAD CROSS SECTIONS	17-20

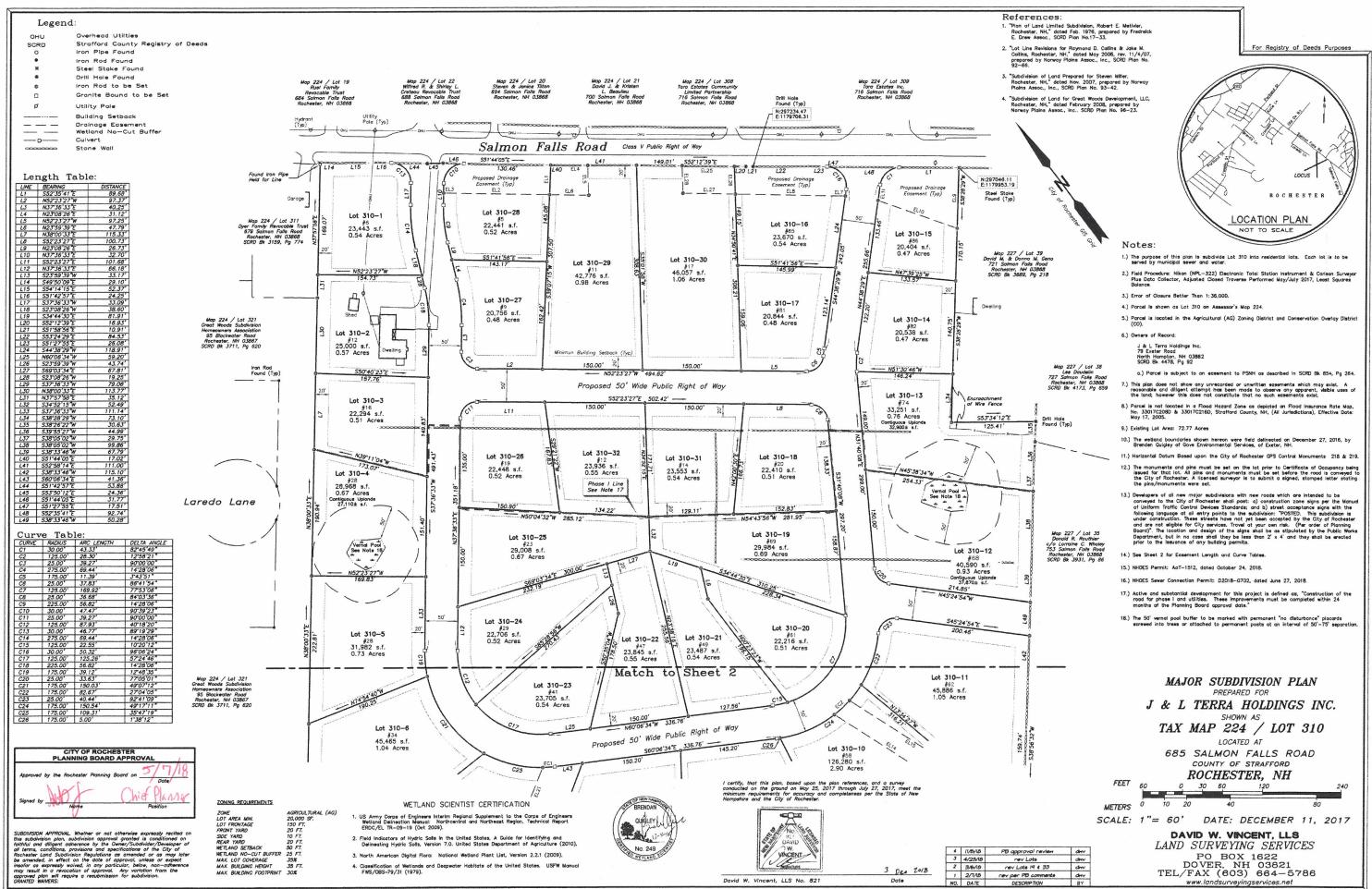
NHB 17-3071 REPORTED NORTHERN BLACK RACER SIGHTING ACROSS SALMON FALLS RD. IF SIGHTED DURING CONSTRUCTION, PLEASE CONTACT THE AGENCY BELOW.

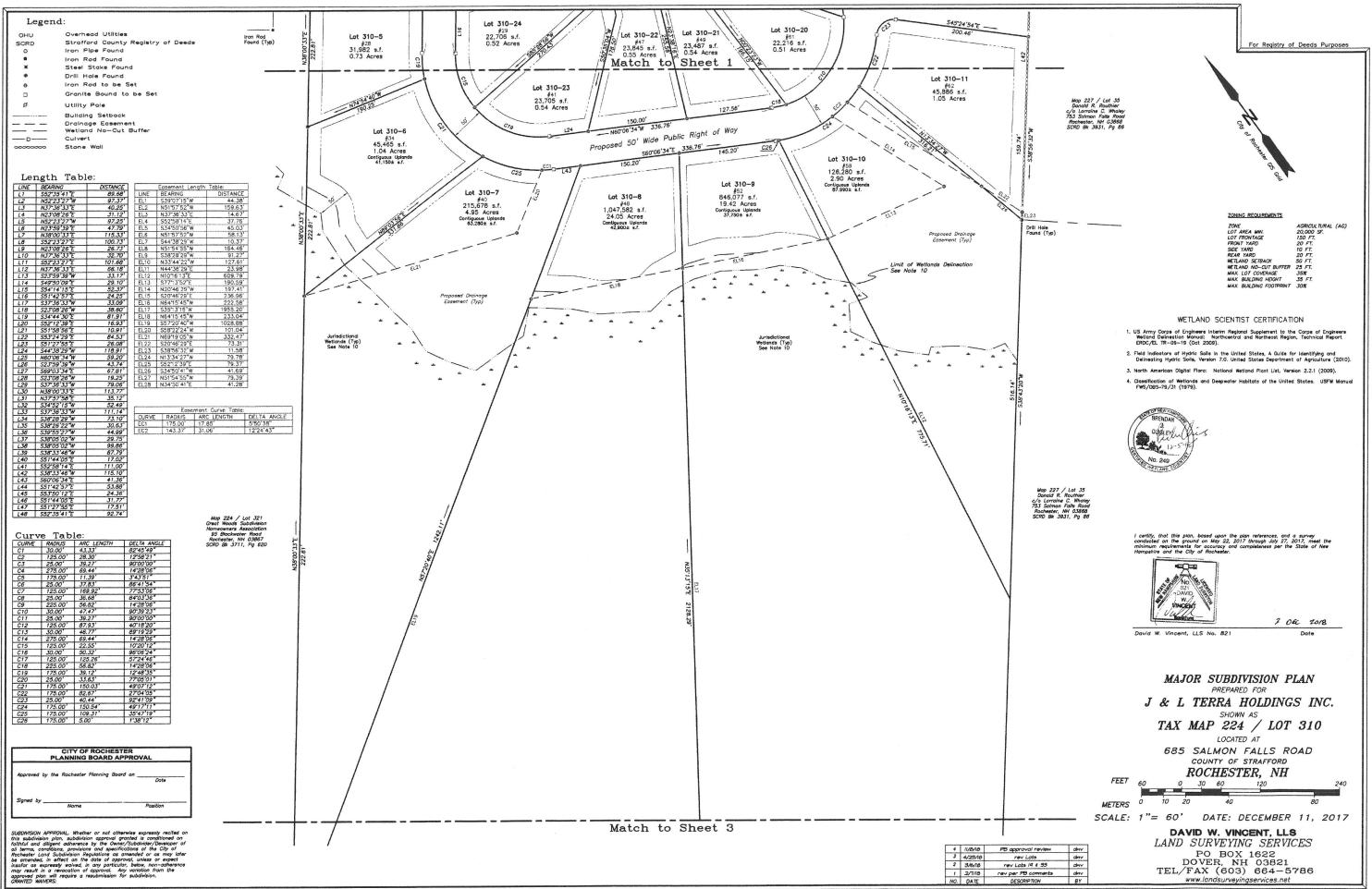
NHB 17-3701 REPORTED BLANDINGS TURTLE SIGHTING NEAR THE CHAIMBERLAN ST SCHOOL IF WOOD, SPOTTED OR BLANDINGS TURTLES ARE FOUND LAYING EGGS IN THE WORK AREA, PLEASE CONTACT MELISSA DOPERALSKI AT 271-1738 or JOSH MEGYESY AT 271-1125 FOR FURTHER INSTRUCTIONS.

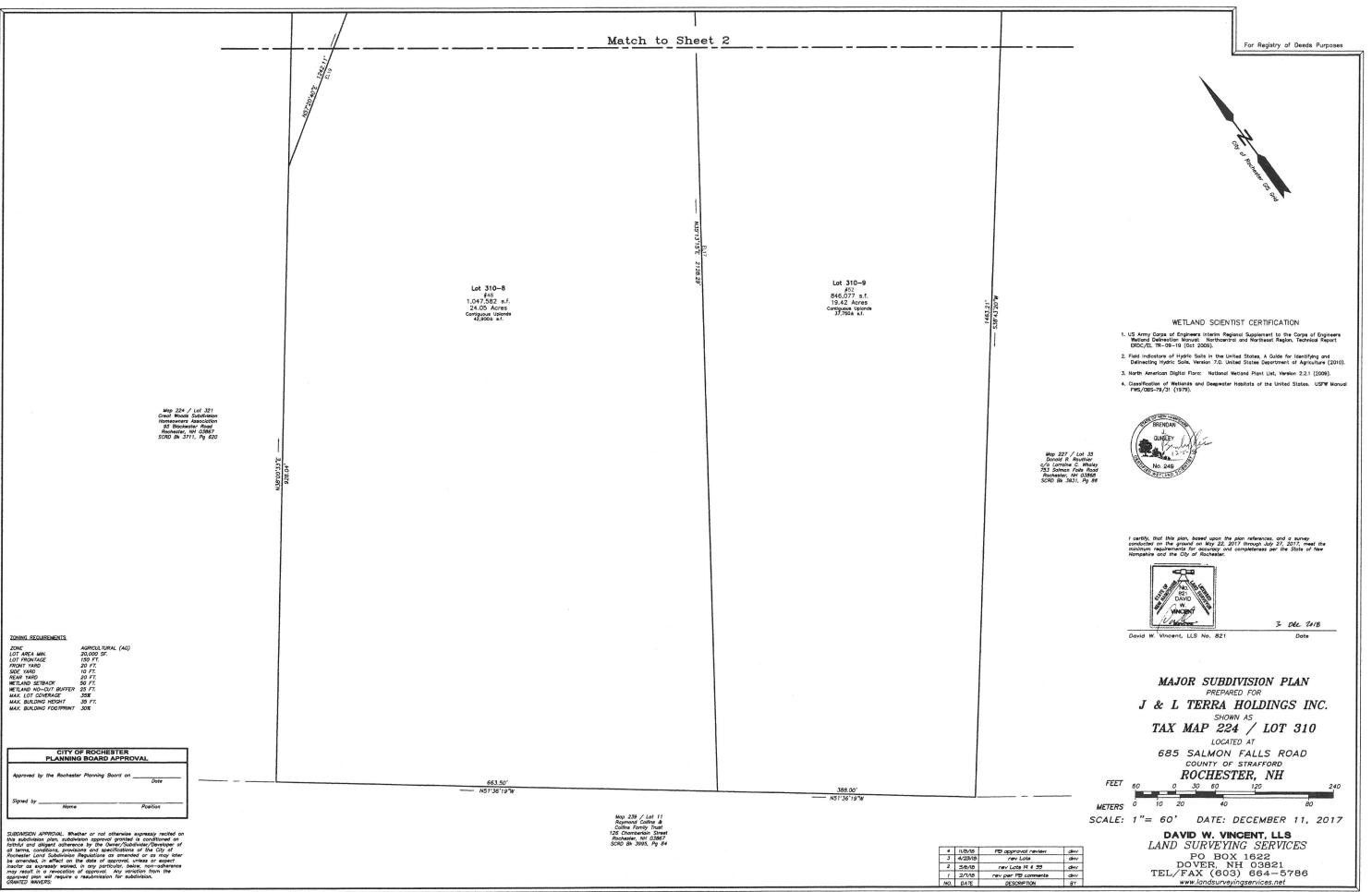
	REVISIONS:	DATE:
1.	REVISE PER TRG & PLANNING BOARD	2/16/18
2.	REVISE PER TRG & PLANNING BOARD	3/7/18
3.	REVISE PER TRG & PLANNING BOARD	4/20/18
4.	REVISED PER AOT REVIEW	9/27/18
5.	REVISED PER ASSESING DEPT.	11/8/18

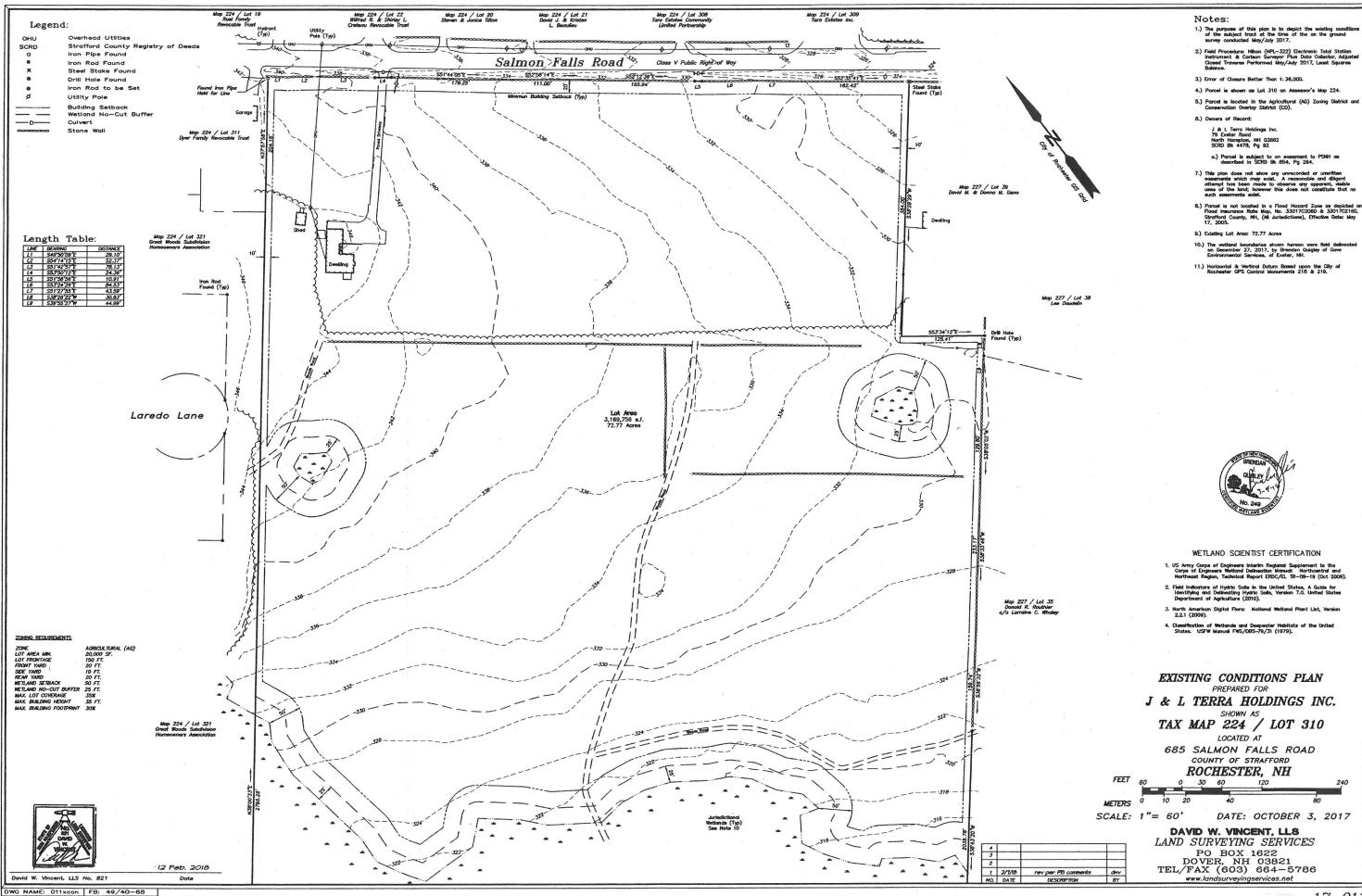
Certified 3/13/19 by : Dett of Seth Geighton Chief Planner

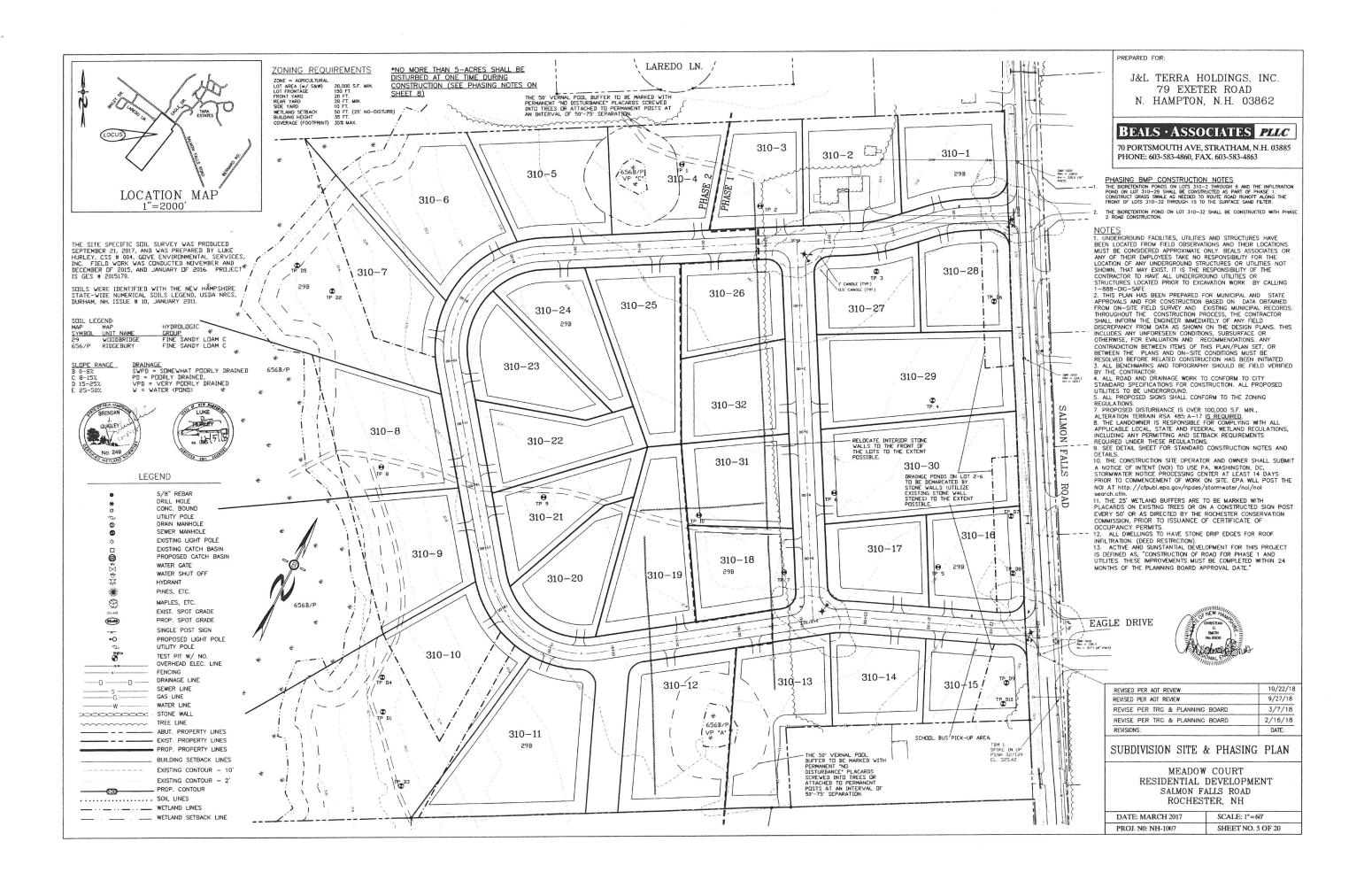
SUBDIVISION ISSUED AUGUST, 2017

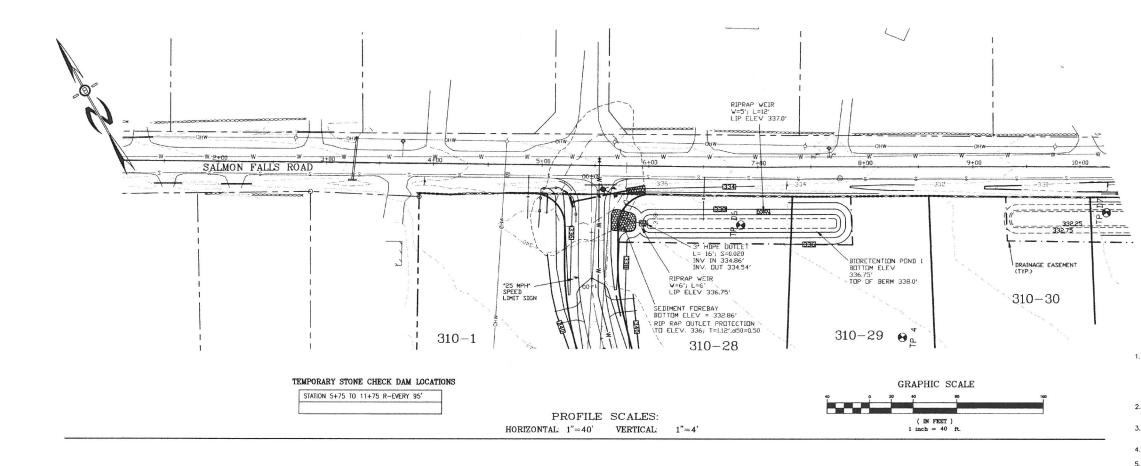










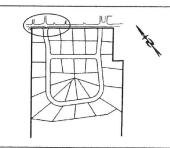


3.75 3.75 PROPOSED ROAD CENTERLINE 3.75 325 6+00

J&L TERRA HOLDINGS, INC. 79 EXETER ROAD N. HAMPTON, N.H. 03862

BEALS · ASSOCIATES PLLC

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



LOCATION LEGEND 1"=500'

NOTES

- 1. ALL ELECTRICAL, TELEPHONE, CABLE TELEVISION AND ALARM LINES TO BE UNDERGROUND. THE SIZE AND LOCATION IS TO BE PLACED OUTSIDE OF THE RIGHT-OF-WAY AS PER TOWN OF BRENTWOOD TYP, ROADWAY SECTION ADDENDUM A SUBDIVISION REGULATIONS, WITH REVIEW AND APPROVAL BY THE TOWN OF BRENTWOOD TOWN ENGINEER. LOW PROFILE UTILITY BOX STRUCTURES SHALL BE USED TO THE GREATEST EXTENT.

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

 3. ALL CONSTRUCTION METHODS AND MATERIALS WILL CONFORM TO THE TOWN OF BARRINGTON STANDARD SPECIFICATIONS AND TO N.H.D.O.T. STANDARDS AND EGULATIONS.

 4. ALL DRAINAGE STRUCTURES AND SWALES WILL BE BUILT AND STABILIZED PRIOR TO HAVING RUN-OFF DIRECTED TO THEM.

 5. SEE DETAIL SHEETS FOR STANDARD CONSTRUCTION DETAILS.

 6. CONTRACTOR TO EMPLOY BEST MANAGEMENT PRACTICES AS SHOWN ON PLANS, AND AS FOUND IN THE STORM WATER MANAGEMENT, AND EROSION AND SEDIMENT PORTICES AS SHOWN ON PLANS, AND AS FOUND IN THE STORM WATER MANAGEMENT, AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE. DATED AUGUST 1992.

 7. NATURAL VEGETATED FILTER STRIPS ARE TO REMAIN WOODED.

 8. CULVERTS SHOULD BE MAINTAINED BI-ANNUALLY.

 9. SEDIMENT TRAPS ARE TO BE INSTALLED AT ALL PIPE INLETS UNTIL SITE IS STABILIZED.

PROFILE SCALES:

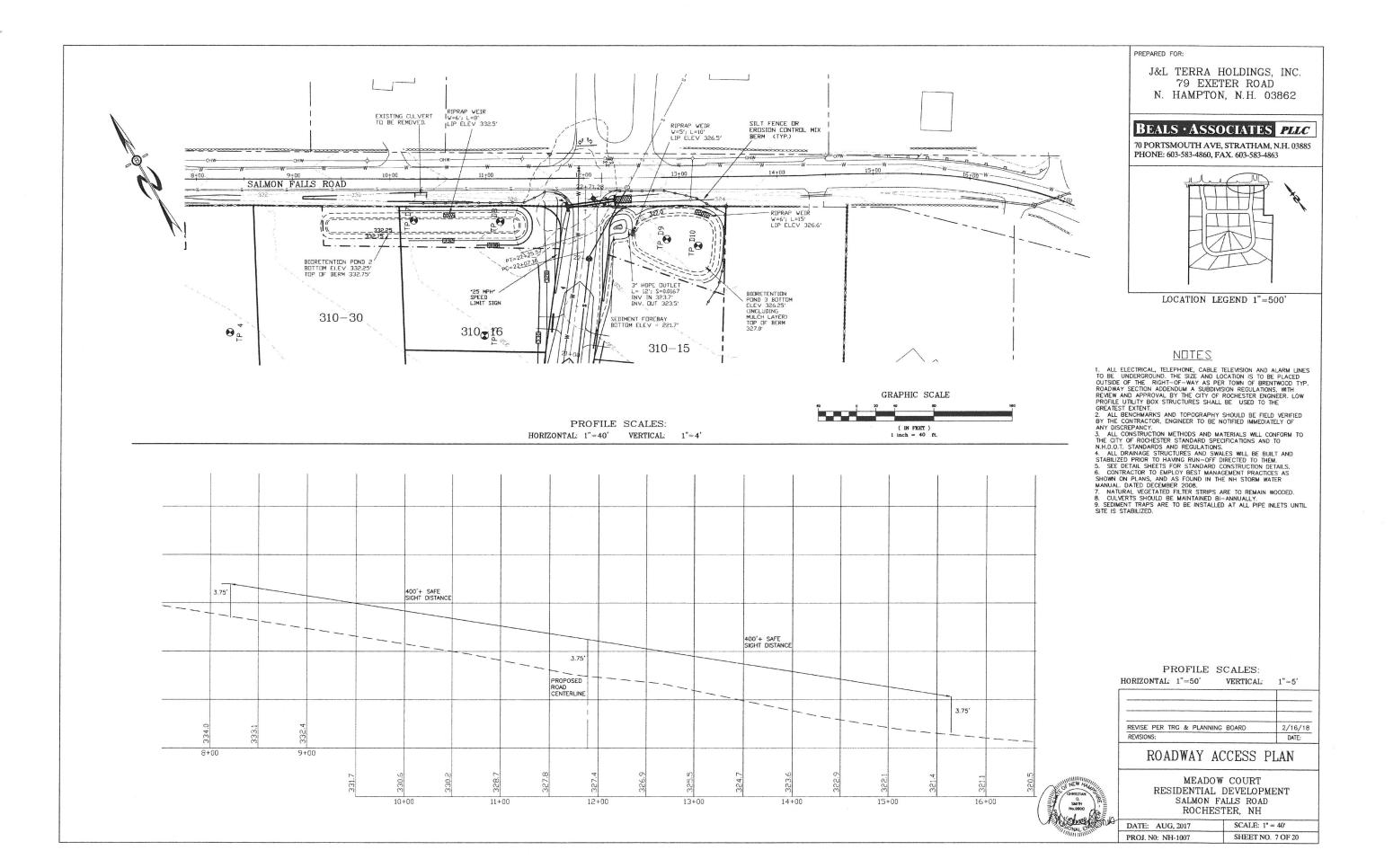
HORIZONTAL: 1"=50"

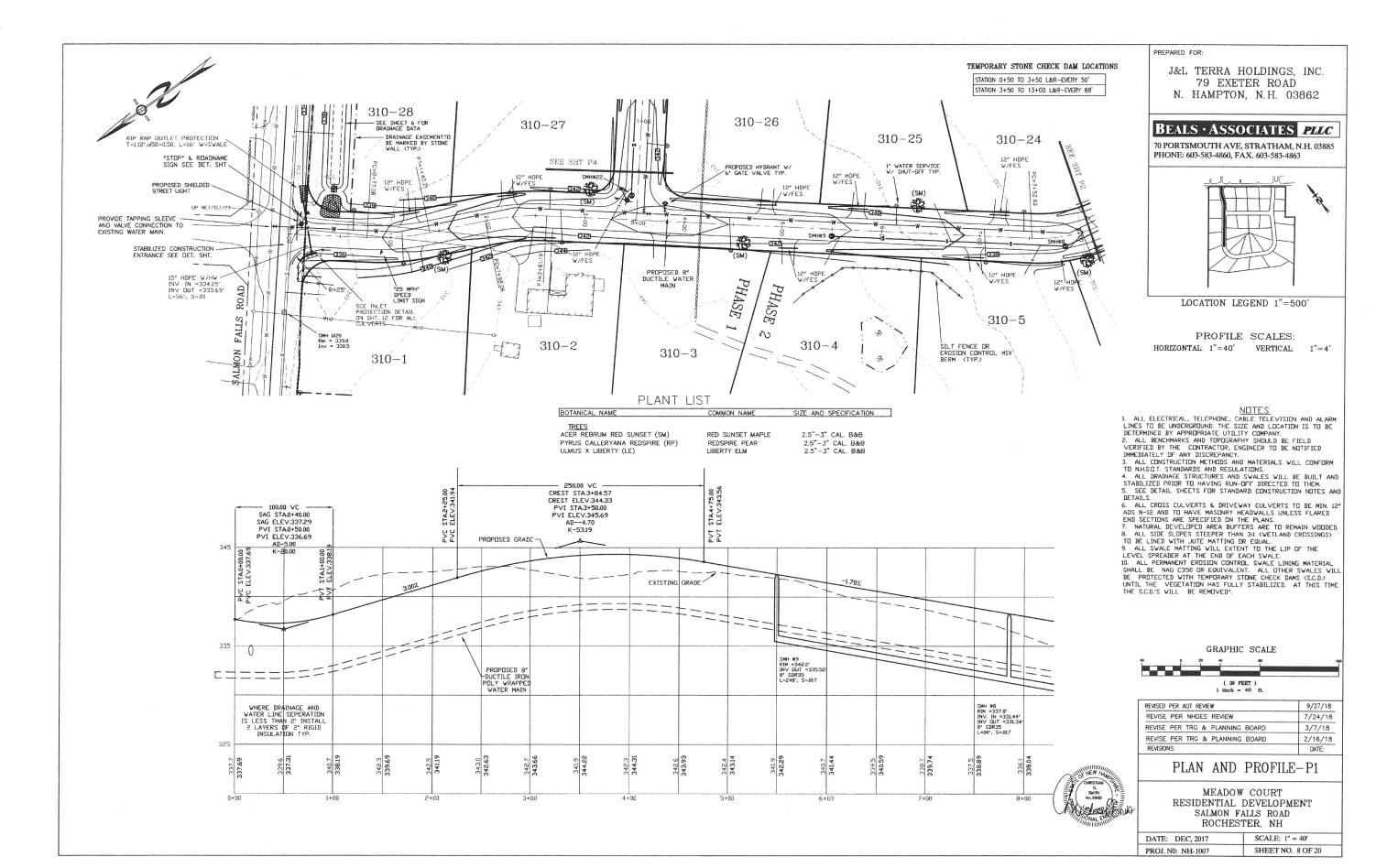
VERTICAL: 1"=5'

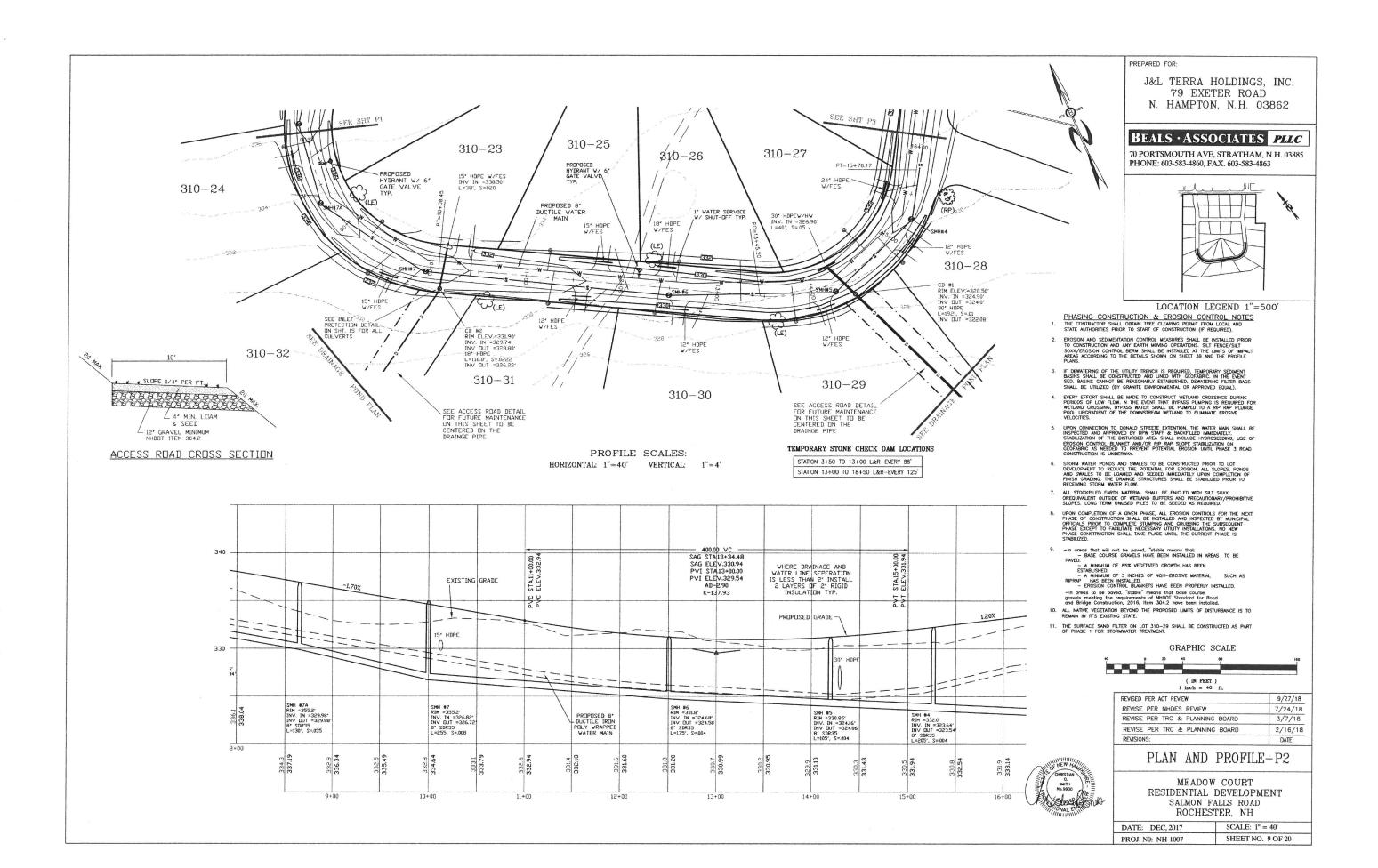
REVISE PER TRG & PLANNING BOARD 2/16/18

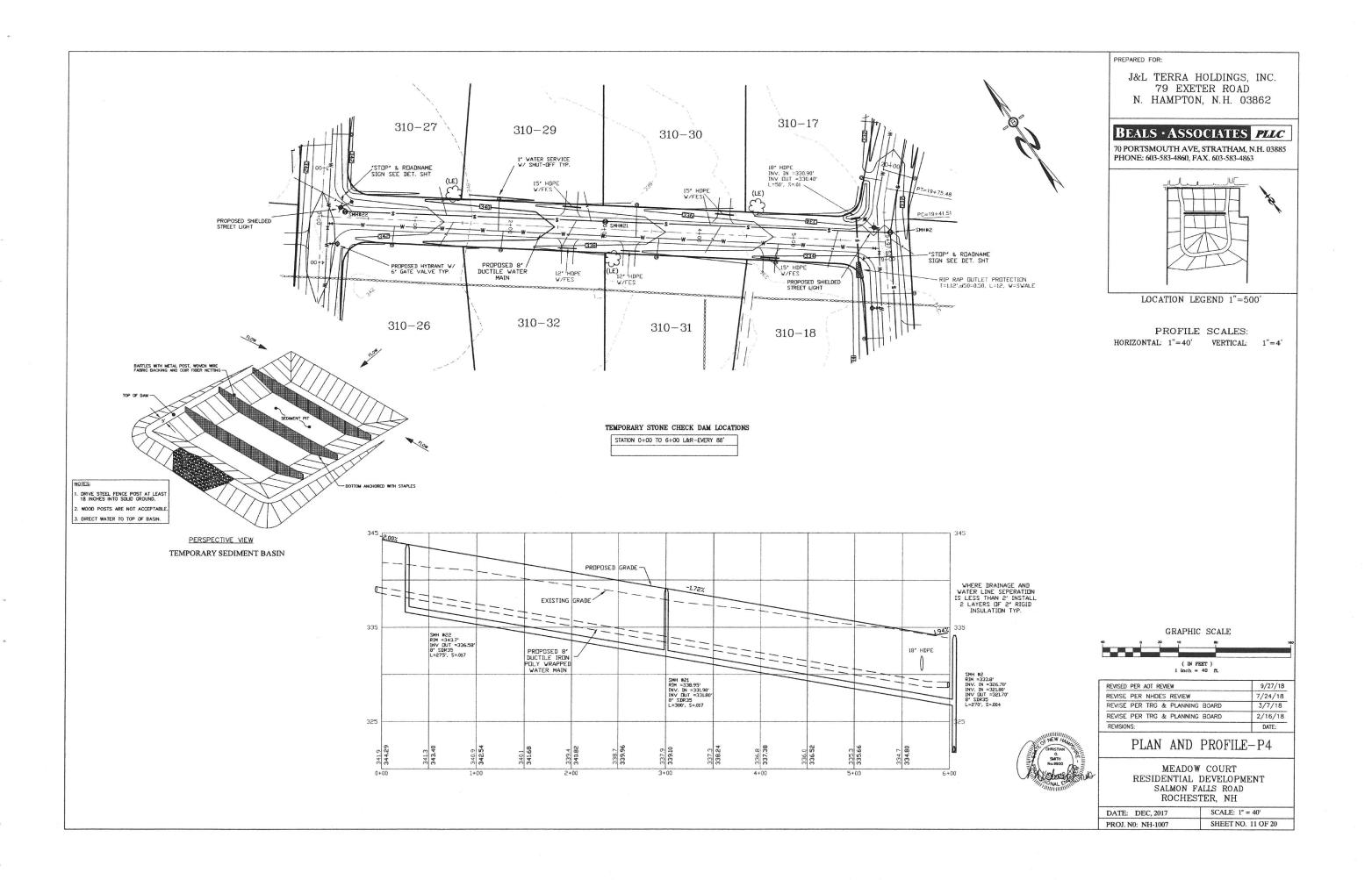
ROADWAY ACCESS PLAN

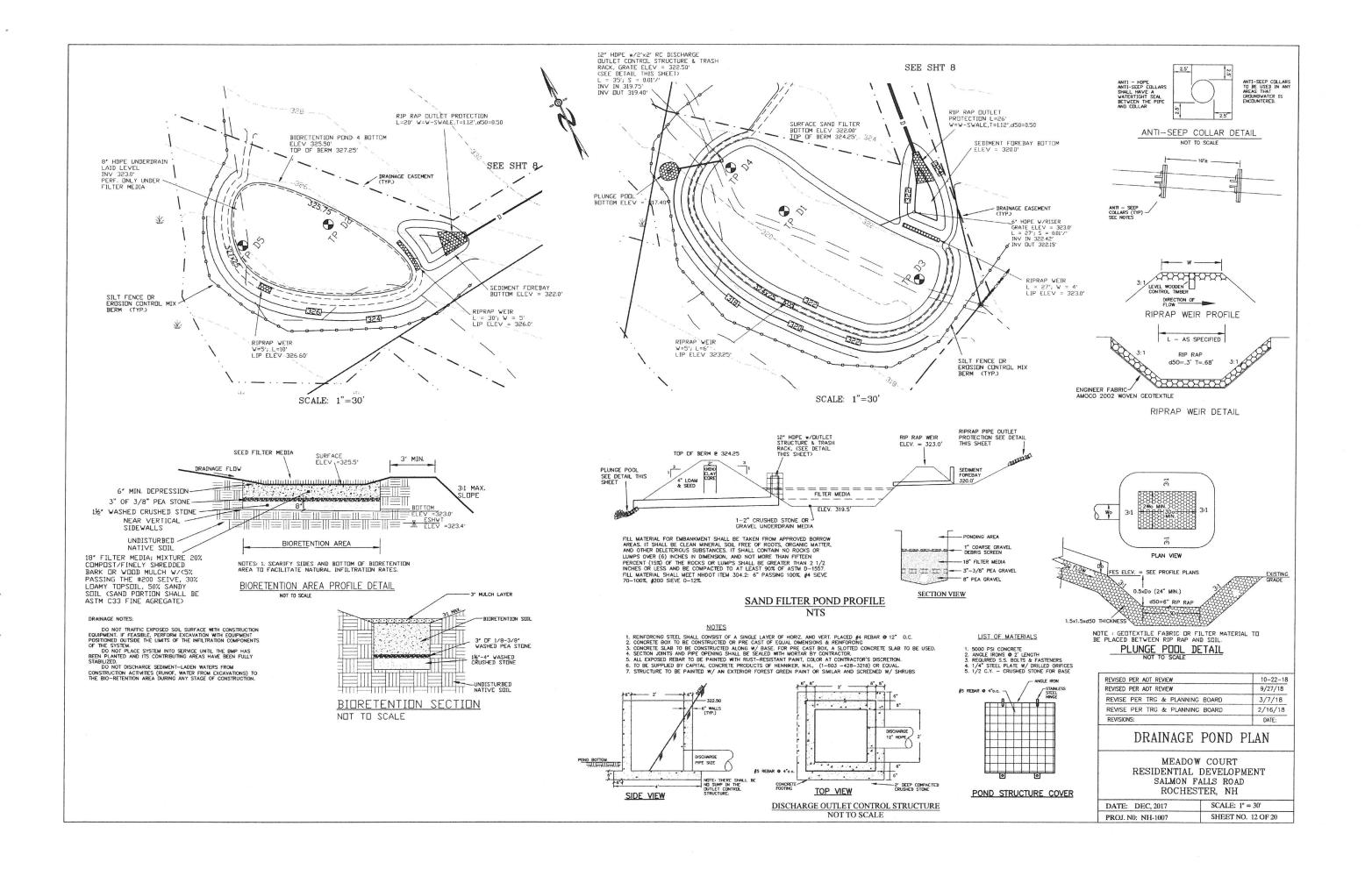
U	DATE: AUG, 2017	SCALE: 1" = 40'
	PROJ. N0: NH-1007	SHEET NO. 6 OF 20





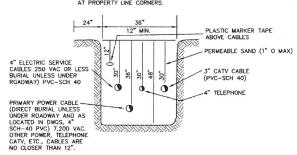




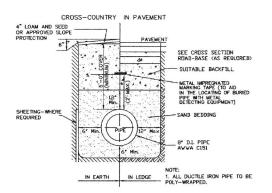


NOTE: ALL UTILITIES SHALL BE REVIEWED AND

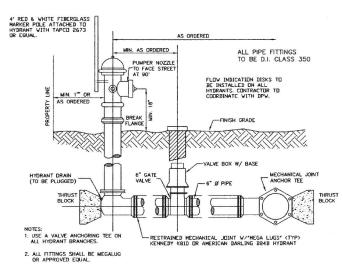
SERVICE BOX CONNECTIONS SHALL BE "FLUSH MOUNT" TO GREATEST EXTENT POSSIBLE AND LOCATED



UTILITY TRENCH DETAIL

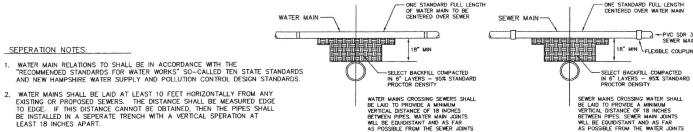


TYPICAL TRENCH DETAIL FOR WATER SYSTEM



HIGH PRESSURE HYDRANTS SHALL BE RED WITH YELLOW CAPS.

HYDRANT INSTALLATION DETAIL



WATER MAIN ABOVE SEWER

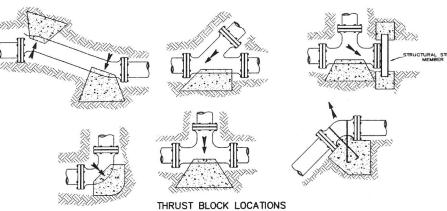
SOILS BEARING CAPACITY

SOIL BEARING LOAD(PSF)

MUCK 1000
SSIT LAY 1000
SAILY 1000
SAILY 4000

WATER MAIN BELOW SEWER

TYPICAL WATER/SEWER SEPERATION DETAILS NOT TO SCALE



TYPICAL THRUST BLOCK DETAILS

- OLLOWING PRECAUTIONS MUST BE OBSERVED WHEN CONSTRUCTING BLOCKS

 1. BLOCKS MUST BE POURED AGAINST UNDISTURBED SOIL.
- 2. PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.

TEST PLUG -

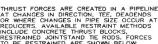
WATER MAIN TAPPING SLEEVE DETAIL
NOT TO SCALE

- CONCRETE SHOULD BE CURED AT LEAST 5 DAYS AND SHALL HAVE A COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.
- BLOCKS MUST BE POSITIONED TO COUNTERACT THE DIRECTION

RESTRAINED PUSH-ON AND MECHANICAL JOINTS ARE AVAILABLE FOR ALL PIPE SIZES AND PRESENT NO INSTALLABLE FOR ALL PIPE SIZES AND PRESENT NO INSTALLABLE FOR ALL PIPE SIZES AND PRESENT NO INSTALLABLE FOR THE PROBLEMS THE PROBLEMS THE PROBLEMS AND FOR A PREDETERMINED NUMBER OF PIPE LENGTHS ON EACH SIDE.

FROD ANY ARE USED BY THEMES LYES OR IN COMBINATION WITH OTHER RESTRAINT DEVICES, WHEN THE ROSS ARE USED WITH STEEL BANDS AROUND THE PIPE BARREL, ONLY ONE(1) ROD SHALL BE ATTACHED TO EACH BAND AND INSTALLABLE COCKED TO PREVENT SUPPORE ALONG THE PIPE BARREL AS AND FLOOD BEHIND A BELL MAY BE USED WITH TWO(2) RODS. FOR MECHANICAL JOINT PIPE, THE ROSS ANY BE THREADED THROUGH THE BOLT HOLES IN A FLANCE AND AND A FLANCE AND SECURIED BY NUTS, ALL ROSS SHALL BE AND PLACED BEHIND A BELL MAY BE A FLANCE AND SECURIED BY NUTS, ALL ROSS SHALL BE ANDO FLACED BEHIND A BELL MAY BE A FLANCE AND SECURIED BY NUTS, ALL ROSS SHALL BE ANDO FLACED BEHIND A BELL MAY BE A FLANCE AND SECURIED BY NUTS, ALL ROSS SHALL BE ANDO FLACED BEHIND A BENT AND A FLANCE AND SCIUNED BY NUTS, ALL ROSS SHALL BE ANDO FLACED BEHIND A BENT AND A FLANCE AND SCIUNED BY NUTS, ALL ROSS SHALL BE ANDO FLACED BEHIND A BENT AND A FLANCE AND SCIUNED BY NUTS, ALL ROSS SHALL BE ANDO FLACED BOTHOM AS BENT AND A FLANCE AND SCIUNED BY NUTS, ALL ROSS SHALL BE ANDO FLACED WITH CORROSON RESISTANT MATERIAL AND PLACED BY THE ADDRESS OF RESISTANT MATERIAL AND PLACED BY THE ADDRESS OF RESISTANT MATERIAL THE PROSS AND SCIUNED BY NUTS, ALL ROSS SHALL BE MADE OF OR COATED WITH CORROSON RESISTANT MATERIAL PROSS AND SCIUNED BY NUTS, ALL ROSS SHALL BE MADE OF OR COATED WITH CORROSON RESISTANT MATERIAL PROSS AND SCIUNED BY NUTS, ALL ROSS SHALL BE MADE OF OR COATED WITH CORROSON RESISTANT MATERIAL PROSS AND SCIUNED BY NUTS.

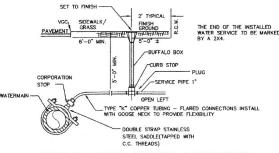
RESTRAINT MAY BE NECESSARY FOR MORE THAN ONE (1) PIPE LENGTH ON EACH SIDE OF ANY CHANGE IN DIRECTIO



		(TOTAL	POUNDS)		
M. PIPE	DEAD	BEND 30.	45' BEND	22 1/2' BEND	11 1/4" BEND
4	1810	2559	1385	706	355
6 8	3739	5288	2862	1459	733
8		9097	4923	2510	1261
10	9677	13685	7405	3776	1897
12	13685	19353	10474	5340	2683
14	18383	26001	14072	7174	3604
16	23779	33628	18199	9278	4551
18	29865	42235	22858	11653	5855
20	35844	51822	28048	14298	7183
24	52279	73934	40013		10249
30	80425	113738	61554		15788
36		162931	88177	44952	22585
42	155528		118036	60684	30489
48	202683		155127	79083	39733
54	256072	362140	1195989	99914	50109

NOTE: TO DETERMINE THRUST AT PRESSURES OTHER THAN 100 PS, MULTIPLY THE THRUST OBTAINED IN THE TABLE BY THE RATIO OF THE PRESSURE TO 100. FOR EXAMPLE: THE THRUST ON A 12°, 90° BEND © 125 PSI IS: 19353/4125/100 = 24191 LBS.

TO DETERMINE THE SIZE OF A CONCRETE THRUST BLOCK, DIVIDE THE TOTAL FORCE BY THE BERRING VALUE OF THE CONSTITUENT SOIL. THE QUOTIENT WILL BE THE SIZE OF THE BEARING OF THE THRUST BLOCK IN SOUARE FEET. APPROXIMATE VALUES FOR VARIOUS TYPES OF SOIL ARE LISTED BELOW. IN RESPONSIVE OF THE DE ASSEMBLE OF THE UNITY OF THE DE ASSEMBLE OF THE WIDE VARIATION OF BEARING VALUES FOR EACH SOIL TYPE.



TYPICAL WATER SERVICE CONNECTION

PREPARED FOR:

J&L TERRA HOLDINGS, INC. 79 EXETER ROAD N. HAMPTON, N.H. 03862

BEALS · ASSOCIATES PLLC

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

NOTES

- ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE: REFILL WITH BEDDING MATERIAL. (SEE NOTE 6 ALSO)
- BEDDING: MINIMUM 12" SAND BLANKET AS SPECIFIED AND REMAINING FILL AS SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATERIAL AND MEETING ASTM C-33 STONE

140.	0/		
	100%	PASSING	1 INCH SCREEN
	90-100%	PASSING	3/4 INCH SCREEN
	20-50%	PASSING	3/8 INCH SCREEN
	0-10%	PASSING	No. 4 SIEVE
	0-5%	PASSING	No. 8 SIEVE

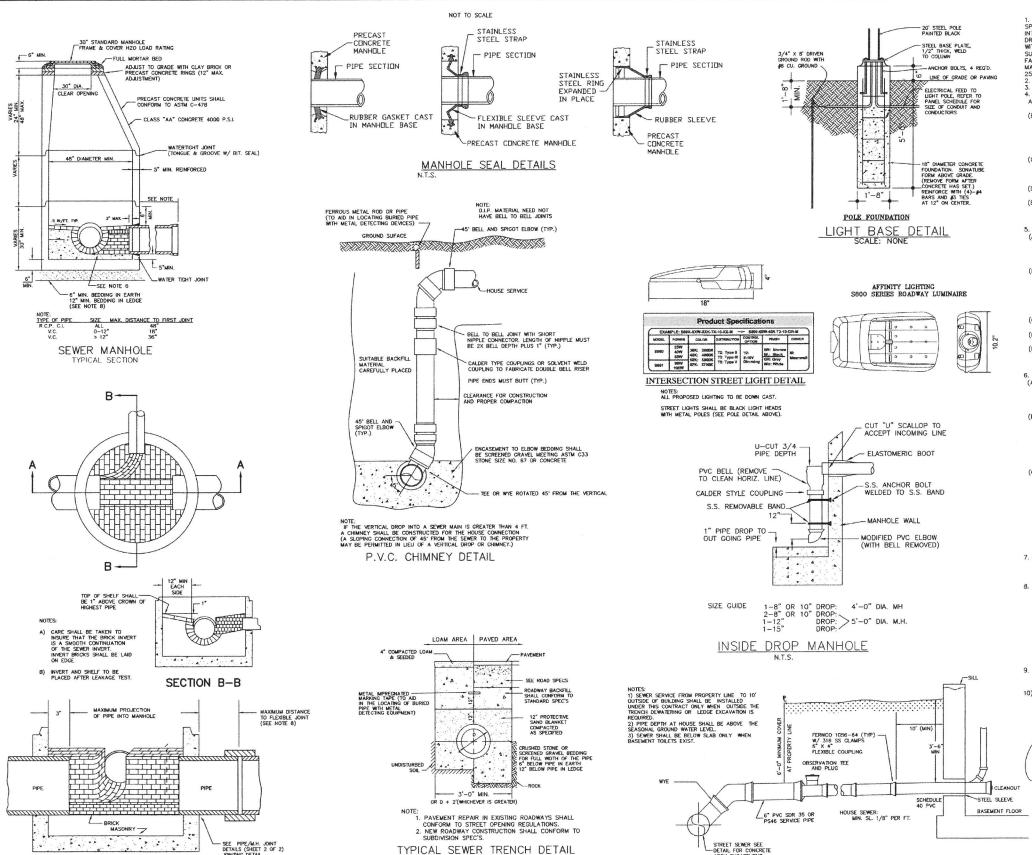
WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, GRADED SCREENED GRAVEL OR CRUSHED STONE 3/4 INCH TO 1-1/2 INCH SHALL BE USED.

- 3) SUITABLE MATERIAL IN ROADS, ROAD SHOULDERS, WALKWAYS, AND TRAVELED WAYS: SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAYEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SIX INCHES IN LARGEST DIMENSION.
- 4) BASE COURSE: IF ORDEREO BY THE ENGINEER, SHALL MEET THE RE-QUIREMENTS OF DIMISION 300 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION.
- 5) WOOD SHEETING: IF REQUIRED, WHERE SHEETING IS PLACED ALONG SIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER, IT SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION NOT LESS THAN ONE FOOT ABOVE THE TOP OF THE PIPE. WHERE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST 3 FEET BELOW HIMSHED DRADE, BUT NOT LESS THAN ONE FOOT ABOVE THE TOP OF THE PIPE.
- 6) W = MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12 INCHES ABOVE THE PIPE FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES, FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE 0.D., W SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE.
- 7) FOR CROSS COUNTRY CONSTRUCTION: BACKFILL OR FILL SHALL B MOUNDED TO A HEIGHT OF 6 INCHES ABOVE THE ORIGINAL GROUN
- DUCTILE-IRON PIPE, FITTINGS AND JOINTS:
 DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING STANDARDS OF THE UNITED STATES OF AMERICA STANDARDS INSTITUTE
- ANSI AZISO/AWWA CISO THICKNESS DESIGN OF DUCTILE-IRON PIPE AND WITH ASTM A-536 DUCTILE-IRON CASTINGS ANSI AZISI/AWWA CISI DUCTILE-IRON PIPE, CENTRIFUGALLY CAST IM METAL MOLDS OR SAND-LINED MOLDS FOR WATER OR OTHER LIQUIDS
- 2— JOINTS SHALL BE OF THE MECHANICAL OR PUSH—ON TYPE JOINTS AND CASKETS SHALL CONFORM TO ANSI A21.11/AWWA C11 RUBBER CASKET JOINTS FOR DUCTILE IRON PRESSURE PIPE AND FITTINGS
- 9) ALL WATER LINES SHALL BE DISINFECTED AND PRESSURE TESTED TO THE APPROVAL OF THE SEWER COMMISSION. MIN. TEST PRESSURE 150 PSI OR 1 1/2 TIMES THE WORKING PRESSURE WHICH EVER IS GREATER.

REVISE	PER	TRG	&	PLANNING	BOARD	2/16/18
EVISION	S:					DATE:

UTILITY DETAILS

DATE: AUG, 2017	SCALE: NTS
PROJ. NO: NH-1007	SHEET NO. 14 OF 20



NOT TO SCALE

SECTION A-A

- 1. IT IS THE INTENTION THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS. HAVE ADEQUATE SPACE, STRENGTH AND LEAKPROOF QUALITIES CONSIDERED NECESSARY BY THE COMMISSION FOR THE INTENDED SERVICE SPACE REQUIREMENTS AND CONFIGURATIONS, SHALL BE AS SHOWN OF THE DRAWING, MANHOLES MAY BE AM ASSEMBLY OF PRECAST SECTIONS, WITH STEEL REINFORCEMENT, WITH ADEQUATE JOINTING, IN ANY APPROVED MANHOLE, THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND LOADS OF 8 TONS (H-20 LOADING) WITHOUT FAILURE AND PREVENT LEAKAGE IN EXCESS OF ONE CALLON PER DAY PER VERTICAL FOOT OF MANHOLE, THE CONTINUOUSLY FOR THE LIFE OF THE STRUCTURE. A PERIOD GENERALLY IN EXCESS OF 25 YEARS IS TO BE UNDERESTOOD IN BOTH CASES.

 2. BARRELS AND CONE SECTIONS SHALL BE PRECAST REINFORCED.

 3. PRECAST CONCRETE BARREL SECTIONS, CONES AND BASES SHALL CONFORM TO ASTM C478

 4. LEAKAGE TEST:

- 4. LEAKAGE TEST:

 A) ALL NEW SEWERS, AND MANHOLES SHALL BE TESTED FOR WATER TIGHTNESS BY THE USE OF EITHER WATER OR LOW-PRESSURE AIR TESTS

 (B) LOW-PRESSURE AIR TESTING SHALL BE IN CONFORMANCE WITH THE FOLLOWING TESTING STANDARDS IN EFFECT AT THE TIME THE TEST IS CONDUCTED:

 (1) ASTM F1417 "STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC CRAVITY SEWER LINES USING LOW-PRESSURE AIR", AVAILABLE AS NOTED IN APPENDIX D; OR (2) UNI-BELL PVC PIPE ASSOCIATION UNI-B-6, "LOW-PRESSURE AIR TESTING OF INSTALLED SEWER PIPE", AVAILABLE AS NOTED IN APPENDIX D;

 (C) ALL NEW GRAVITY SEWERS SHALL BE:

 (1) CLEANED AND VISITALLY INSPECTED LISING A LAMP, TEST AND BY INTRODUCING WATER TO

- (C) ALL NEW GRANTY SEWERS SHALL BE:

 (1) CLEANED AND VISUALLY INSPECTED USING A LAMP TEST AND BY INTRODUCING WATER TO DETERMINE THAT THERE IS NO STANDING WATER IN THE SEWER; AND (2) TRUE TO LINE AND GRADE FOLLOWING INSTALLATION AND PRIOR TO USE.

 (D) ALL PLASTIC SEWER PIPE SHALL BE VISUALLY INSPECTED AND DEFLECTION TESTED NOT LESS THAN 30 DAYS NOR MORE THAN 90 DAYS FOLLOWING INSTALLATION.

 (E) THE MAXIMUM ALLOWABLE DEFLECTION OF FLEXIBLE SEWER PIPE SHALL BE 5% PERCENT OF THE AVERAGE INSIDE DIAMETER. A RICID BALL OR MANDREL WITH A DIAMETER OF AT LEAST 55% OF THE AVERAGE INSIDE DIAMETER. A RICID BALL OR MANDREL WITH A DIAMETER OF AT LEAST 55% OF THE AVERAGE INSIDE DIAMETER. SHALL BE USED FOR TESTING PIPE DEFLECTION. THE DEFLECTION TEST SHALL BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES ENV-WQ 704.17

 5. MANHOLES: TESTING.
- DEFLECTION TEST SHALL BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES. ENY-WQ 704.17

 5. MANHOLES: TESTING.

 (A) MANHOLES SHALL BE TESTED FOR LEAKAGE USING A VACUUM TEST IN ACCORDANCE WITH THE ASTM C1244 STANDARD IN EFFECT WHEN THE TESTING IS PERFORMED, AVAILABLE AS NOTED IN APPENDIX D. A MANHOLE MAY BE BACKFILLED PRIOR TO PERFORMING A VACUUM TEST, BUT IF THE MANHOLE FALS THE VACUUM TEST, BACKFILLED PRIOR TO PERFORMING A VACUUM TEST, BUT IF MANHOLE PRIOR TO RETESTING.

 (B) THE MANHOLE FALS THE VACUUM SEST SHALL CONFORM TO THE FOLLOWING:

 (1) THE INITIAL VACUUM GAUGE TEST PRESSURE SHALL BE 10 INCHES HG, AND

 (2) THE MINIMUM ACCEPTABLE TEST HOLD TIME FOR A 1-INCH HG PRESSURE DROP TO 9 INCHES HG SHALL BE:

 A. NOT LESS THAN 2.5 MINUTES FOR MANHOLES LESS THAN 10 FEET DEEP IN DEPTH;

 B. NOT LESS THAN 2.5 MINUTES FOR MANHOLES MORE THAN 15 FEET DEEP;

 (C) THE MANHOLE SHALL BE REPAIRED AND RETESTED IF THE TEST HOLD TIMES FAIL TO ACHIEVE THE ACCEPTANCE UMITS SPECIFIED IN (B), ABOVE.

 (D) INVERTS AND SHELVES SHALL NOT BE INSTALLED UNTIL AFTER SUCCESSFUL TESTING IS COMPILETED.

- COMPLETED.

 (E) IMMEDIATELY FOLLOWING COMPLETION OF THE LEAKAGE TEST, THE FRAME AND COVER SHALL BE PLACED ON THE TOP OF THE MANHOLE OR SOME OTHER MEANS USED TO PREVENT ACCIDENTAL ENTRY BY UNAUTHORIZED PERSONS, CHILDREN, OR ANIMALS, UNTIL THE CONTRACTOR IS READY TO MAKE FINAL ADJUSTMENT TO GRADE.

 6. INVERTS AND SHELVES:
- 6. INVERTS AND SHELVES:
 (A)MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANCENT TO THE CENTER LINE OF THE SEWER PIPES SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE THROUGH CHANNEL UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY.
 (B)MATERIALS OF CONSTRUCTION FOR MANHOLE GRADE ADJUSTMENT SHALL BE AS FOLLOWS:
 (1) GRADE ADJUSTMENT RINGS SHALL BE CONSTRUCTED WITH ETHER CRADE SS HARD BRICK THAT HAS BEEN CERTIFIED BY ITS MANUFACTURER AS MEETING THE ASTM C32 STANDARD IN EFFECT AT THE TIME THE BRICK WAS MANUFACTURED OR REINFORCED CONCRETE MEETING THE REQUIREMENTS OF THIS SECTION;
 (2) GRADE ADJUSTMENT RINGS SHALL:

- REQUIREMENTS OF THIS SECTION;
 (2) GRADE ADJUSTMENT RINGS SHALL:

 A. BE SIZED TO THE OPENING OF THE MANHOLE; AND

 B. NOT OBSTRUCT THE ACCESS TO THE MANHOLE.

 (C) MORTAR USED IN MANHOLE CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:

 (1) MORTAR SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND SAND WITH OR WITHOUT HYDRATED LIME ADDITION;

 BY THE STATE OF THE
- HYDRAIGD LIME ADDITION; (2) PROPORTIONS IN MORTAR OF PARTS BY VOLUMES SHALL BE AS SHOWN IN TABLE 704-4: (3) CEMENT SHALL BE TYPE II PORTLAND CEMENT THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C150/C150M STANDARD IN EFFECT AT THE TIME THE CEMENT WAS MANUFACTURED.

- MANUFACTURED:

 (4) HYDRATED LIME SHALL BE TYPE S THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C207 STANDARD IN EFFECT AT THE TIME THE HYDRATED LIME WAS PROCESSED; (5) SAND SHALL CONSIST OF INERT NATURAL SAND THAT IS CERTIFIED BY ITS SUPPLIER AS CONFORMING TO THE ASTM C23 STANDARD IN EFFECT AT THE TIME THE FINE SAND IS PROCESSED BY "STANDARD SPECIFICATIONS FOR CONCERTE, FINE ACCRECATES".

 FRAMES AND COVERS MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN EQUAL TO CLASS 30 AND CERTIFIED BY THEIR MANUFACTORURER AS COMPLYING WITH ASTM A48 AND POVINGE A 30 INCH DIA, CLEAR OPENING. THE WORD "SEWER" OR DRAIN" SHALL BE CAST INTO THE CENTER OF THE UPPER FACE OF EACH COVER WITH RAISED, 3" LETTERS.

 8. BEDDING: MINIMUM 12" SAND BLANKET. (SAND BLANKET MATERIAL SHALL BE GRADED SAND, FREE FROM ORGANIC MATERIALS, GRADED SUD THAT 100 % PASSES A ½—INCH SIEVE AND A MAXIMUM OF 15% PASSES A 4200 SIEVE) AND REMAINING FILL AS SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATERIAL AND MEETING ASTM C-33 STONE SIZE No. 67 100% PASSING 1 INCH SCREEN
 - PASSING 1 INCH SCREEN

DETAIL OF HOUSE SEWER SERVICE

- OR CRUSHED STONE 3/4 INCH TO 1-1/2 INCH SHALL BE USED.

 9. FLEXIBLE JOINT: A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN THE FOLLOWING
- DISTANCES:
- DISTANCES:

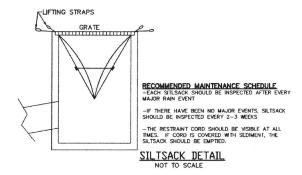
 P.V.C. PIPE ALL SIZES 48"

 10) CONTRACTOR SHALL PLACE 2" WIDE METAL WIRE IMPREGNATED GREEN PLASTIC WARNING TAPE OVER ENTIRE LENGTH OF ALL GRAVITY SEWERS.



SEWER/LIGHTING DETAILS

DATE: AUG, 2017	SCALE: NTS
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EROSION PROTECTION TYPE E

TEMPORARY EROSION CONTROL MEASURES

- THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT NO MORE THAN 5 ACRES OF LAND SHALL
 BE EXPOSED BEFORE DISTURBED AREAS ARE STABILIZED.*
 EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS
- REQUIRED OR DIRECTED BY THE ENGINEER ALL DISTURBED AREAS SHALL BE RETURNED TO ORIGINAL GRADES AND ELEVATIONS.

 3. 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 WEEKLY AND AFTER EVERY RAIN EVENT GREATER THAN 0.25° DURING THE LIFE OF THE PROJECT. ALL DAMAGED AREAS SHALL BE REPAIRED, SEDIMENT DEPOSITS SHALL PERIODICALLY
- 5. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND
- 5. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VECETATED.
 6. AREAS MUST BE SEEDED AND MULCHED IMMEDIATELY UPON FINAL GRADING, PERMANENTLY STABILIZED WITHIN 14 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF SOIL. (IMMEDIATELY MEANS AS SOIN AS PRACTICABLE BUT NO LATER THAN THE EDN OF THE NEXT WORK DAY, FOLLOWING THE DAY EARTH DISTURBING ACTIVITIES TEMPORARILY OR PERMANENTLY CEASED. * AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
 - A MINIMUM OF 85% VEGETALD GROWTH HAS BEEN ESTABLISHED.

 A MINIMUM OF 85% VEGETALD GROWTH HAS BEEN ESTABLISHED.

 A MINIMUM OF 35% VEGETALD GROWTH HAS BEEN ESTABLISHED.

 EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

- 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 WILL BE MINIMIZED.

 3. WHEN HAY BALES ARE USED, THE BALES SHALL BE EMBEDDED AT LEAST 4 INCHES INTO THE SOIL. WHEN
- TIMBER STRUCTURES ARE USED, THE TIMBER SHALL EXTEND AT LEAST 18" INTO 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. SEEDING, FERTILIZING, AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS IN THE APPROPRIATED VEGETATIVE BMP.
 6. STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.
- STROCTORES STALE BE REMOVED FROM THE CHANNEL WHEN THEIR OSEPUL LIFE HAS BEEN COMPLETED. THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL TAKE PRECAUTIONS AND INSTRUCTIONS FROM THE PLANNING DEPARTMENT IN ORDER TO PREVENT, ABATE AND CONTROL THE EMISSION OF FUGITIVE DUST INCLUDING BUT NOT LIMITED TO WETTING, COVERING, SHIELDING, OR
- 8. THE NH COMMISSIONER OF AGRICULTURE PROHIBITS THE COLLECTION, POSSESSION, IMPORTATION, TRANSPORTATION, SALE, PROPAGATION, TRANSPLANTATION, OR CULTIVATION OF PLANTS BANNED BY NH LAW RSA 430:53 AND NH CODE ADMINISTRATIVE RULES AGR 3800. THE PROJECT SHALL MEET ALL REQUIREMENTS AND THE INTENT OF . RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES THIS PROJECT IS REGULATED UNDER EPA NPDES CONSTRUCTION GENERAL PERMIT. THE CONSTRUCTION
- SITE OPERATOR AND OWNER SHALL SUBMIT A NOTICE OF INTENT (NOI) TO USEPA WASHINGTON, DC. STORMWATER NOTICE PROCESSING CENTER AT LEAST SEVEN DAYS PRIOR TO COMMENCEMENT OF WORK ON SITE. EPA WILL POST THE NOI AT http://cfpubl.epa.gov/npdes/stormwater/noi/noisearch.cfm. AUTHORIZATION IS GRANTED UNDER THE PERMIT ONCE THE NOI IS SHOWN IN "ACTIVE STATUS"

- CONSTRUCTION SEQUENCE

 1. CUT 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 STABILIZED PRIOR TO ANY EARTH MOVING OPERATION AND PRIOR TO DIRECTING RUNOFF TO THEM.

 3. CLEAR, CUT, GRUE AND DISPOSE OF DEBRIS IN APPROVED FACILITIES. STUMPS AND DEBRIS ARE TO BE REMOVED FROM SITE AND DISPOSED OF PER STATE AND LOCAL REGULATIONS IN PHASES AS DIRECTED.

 4. EXCAVATE AND STOCKPILE TOPSOIL /LOAM. STOCKPILING SHALL NOT TAKE PLACE ON SLOPES GREATER THAN 10%. ALL AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.

 5. CONSTRUCT TEMPORARY CULVERTS AS REQUIRED OR DIRECTED.

 6. CONSTRUCT THE ROADWAY/DRIVEWAYS AND ITS ASSOCIATED DRAINAGE STRUCTURES. ALL ROADWAYS, PARKING AREAS, AND CUT/FILL SLOPES SHALL BE STABILIZED AND/OR LOAMED AND SECDED WITHIN

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

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

 8. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING, ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEEDED OR MULCHED AS REQUIRED, OR DIRECTED.

 9. DAILY OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE CHECK DAMS, DITCHES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION ON THE SITE AND PREVENT ANY SILTATION OF ABUTTING WATERS OR PROPERTY.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION
- . INSPECT AND MAINTAIN ALL ENGING AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.

 COMPLETE PERMANENT SEEDING AND LANDSCAPING.

 REMOVE TEMPORARY EROSION CONTROL DEVICES AFTER THE AREAS ARE STABILIZED AND ESTABLISHED

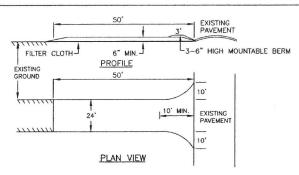
 THEMSELVES TO NO LESS THEN 85%, AS DETERMINED BY THE CITY OF LACONIA PLANNING DEPARTMENT

 IN COMJUNCTION WITH THE SITE ENGINEER. NO EROSION CONTROL DEVICES CAN BE REMOVED UNLESS
- INSPECTED BY THE ENGINEER AND PLANNING DEPARTMENT.

 1.3. ALL SWALES AND DRAINAGE STRUCTURES WILL BE CONSTRUCTED AND STABILIZED PRIOR TO HAVING RINOFF DIRECTED TO THEM.
- RUNDEF DIRECTED TO THEM.

 14. FINISH PAYING ALL ROADWAYS/DRIVEWAYS.

 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



. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED STONE, OR

1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 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 SHALL BE PLACED OVER THE ENTIRE AREA 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 PIPHO IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.

7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS—OF—WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT—OF—WAY MUST BE REMOVED PROMPTLY.

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 AFTER OCTOBER 15TH, ANY SNOW THAT ACCUMULATES ON DISTURBED AREAS SHALL BE REMOVED. PRIOR TO SPRING THAW ALL AREAS WILL BE STABILIZED, AS DIRECTED ABOVE.

ALL SWALES THAT DO NOT HAVE FULLY ESTABLISHED VEGETATION SHALL BE EITHER LINED WITH NORTH AMERICAN CREEN MATTING OR TEMPORARY STONE CHECK DAMS (APPROPRIATELY SPACED). STONE CHECK DAMS WILL BE MAINTAINED THROUGHOUT THE WINTER MONTHS. IF THE SWALES ARE TO BE MAITED WITH PERMANENT LINERS OR RIPRAP WITH ENGINEERING FABRIC, THIS SHALL BE COMPLETED PRIOR TO WINTER SHUTDOWN OR AS SOON AS THEY ARE PROPERLY CRAPPED AND SHADED.

PRIOR TO OCT. 15TH ALL ROADWAY AND PARKING AREAS SHALL BE BROUGHT UP TO AND THROUGH THE BANK RUN 3. PRIOR TO OCT. 151H ALL ROADWAY AND PARKING AREAS SHALL BE. BROUGHT UP TO AND INTROUGH THE BANK NO GRAVEL APPLICATION. IF 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 30-3, BUT SHALL HAVE BETWEEN 15-25% PASSING THE #200 SIEVE AND THE LARGEST STONE SIZE SHALL BE 2". IF THE SITE IS ACTIVE AFTER OCTOBER 15TH, ANY ACCUMULATED SNOW SHALL BE REMOVED FROM ALL ROADWAY AND PARKING AREAS.

AFTER OCTOBER 15TH, THE END OF NEW HAMPSHIRE'S AVERAGE GROWING SEASON, NO ADDITIONAL LOAM SHALL BE 4. AFTER OUTDER ISTH, THE END OF THE MAJOR NEW MAMINISHIES A WERNES GROWING SOUSDAY, NO JUDICIAN STREET 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 TONS PER ACRE. ALL STOCKPILES THAT WILL REMAIN THROUGHOUT THE WINTER SHALL BE SURROUNDED WITH SILT FENCING.

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.

 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 TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
- 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 MINIMUM 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(K2O). 100 LBS PER ACRE OR 2, 2 LBS PER 1,000 SQ.FT.
- (NOTE: THIS IS THE EQUIVALENT OF 500 LBS PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS PER ACRE OF 5-10-10.)
- B. 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.
- . 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.
- THE 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

RECOME ESTABLISHED

- PLANTED AREA SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNAL STAKE 2 TO 3 YEARS TO
- IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

NOTE: KEY STONE INTO CHANNEL BANKS AND EXTEND BEYOND ABUTMENTS A MINIMUM OF 18" TO PREVENT FLOW AROUND THE DAM. I = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION 2"-3" STONE FLOW SPACING BETWEEN STRUCTURES

MAINTENANCE

TEMPORARY GRADE STABILIZATION STRUCTURES SHOULD BE CHECKED AFTER EACH RAINFALL AND AT LEAST DALLY DURING PROLONGED STORMS. ANY NECESSARY REPARS SHOULD BE MADE IMMEDIATELY, PARTICULAR ATTENTION SHOULD BE GRADE TO THE STRUCTURES WERE REMOVED. THE DISTURBED PORTION SHOULD BE BROUGHT TO THE EXISTING CHANNEL GRADE AND THE AREAS PREPARED. SEEDED AND MULCHED, WHILE THIS PRACTICE IS NOT INTENDED TO BE USED PRIMARILY FOR SEDMENT TRAPPING, SOME SEDMENT WILL ACCUMULATE BEHIND THE STRUCTURES. SEDMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT HAS ACCUMULATED TO ONE HALF OF THE ORIGINAL HEIGHT OF THE STRUCTURE.

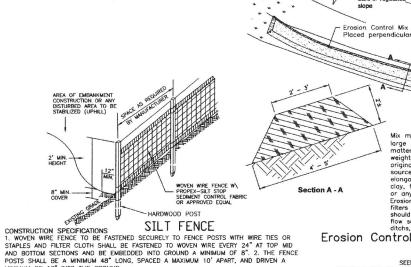
PREMOVAL

REMOVES THE STABILIZED, THESE TEMPORARY STRUCTURES SHALL BE REMOVED WITH SPECIAL CARE
AS TO AVIOL DISTURBING ANY UNDERLYING EROSION CONTROL FABRIC AND/OR EXISTING VEGETATION

Che Miles

TEMPORARY STONE CHECK DAM

RDWOOD POST SILT FENCE



PREPARED FOR:

J&L TERRA HOLDINGS, INC.

79 EXETER ROAD

N. HAMPTON, N.H. 03862

BEALS · ASSOCIATES PLLC

70 PORTSMOUTH AVE, STRATHAM, N.H. 03885

PHONE: 603-583-4860, FAX. 603-583-4863

Mix material should consist of 30–50% large (1–3") particles. The organic matter content should be 25%–65%, dry weight basis. The organic matter may originate from a variety of vegetative sources, but needs to be fibrous and elongated. The mix shall be free of silictly, fine sand, refuse and contaminants or any material toxic to plant growth. Erosion Control Mix berns are effective filters for overland flow conditions and should not be used to filter concentrated flow such as that found in drainage ditchs, streams, etc.

Erosion Control Mix Berm

SEEDING RATES MINIMUM OF 16" INTO THE GROUND.

3. WHEN TWO SECTIONS OF FILER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM POUNDS PER 1,000 5q. Ft. POUNDS PER ACRE MIXTURE TALL FESCUE
CREEPING RED FESCUE
RED TOP
TOTAL 0.45 0.45 0.05 0.95 . MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" 4. MAINTENANCE STALL BE PETFORMED AS NEEDERAND SEMMENT REMOVED WHEN BUCKES DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF.

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

6. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE REMOVED. SHALL BE DISPOSED AS DIRECTED BY THE REMOVED, SHALL BE SMOOTHED AND RE-VEGETATED. TALL FESCUE CREEPING RED FESCUE CROWN VETCH 15 10 0.35 0.25 0.35 FLAT PEA TOTAL 30 40 OR 55 0.75 0.95 OR 1.35 0.45 0.45 0.20 1.10 DMLT DOWNING PROCONOED 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. TALL FESCUE 0.45 0.75 1.15 1.15 2.30 A. 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. F. TALL FESCUE 1 150 3.60 1/ FOR HEAVY USE ATHLETIC FIELDS CONSULT THE NEW HAMPSHIRE COOPERATIVE EXTENSION TURF SPECURENT VARIETIES AND SEEDING RATES. UNIVERSITY

> REVISED PER AOT REVIEW 10-22-18 REVISED PER AOT REVIEW 9/27/18 REVISE PER TRG & PLANNING BOARD 2/16/18 DATE:

EROSION & SEDIMENTATION

MEADOW COURT RESIDENTIAL DEVELOPMENT SALMON FALLS ROAD ROCHESTER. NH

DATE: AUG, 2017	SCALE: NTS
PROJ. N0: NH-1007	SHEET NO. 16 OF 20

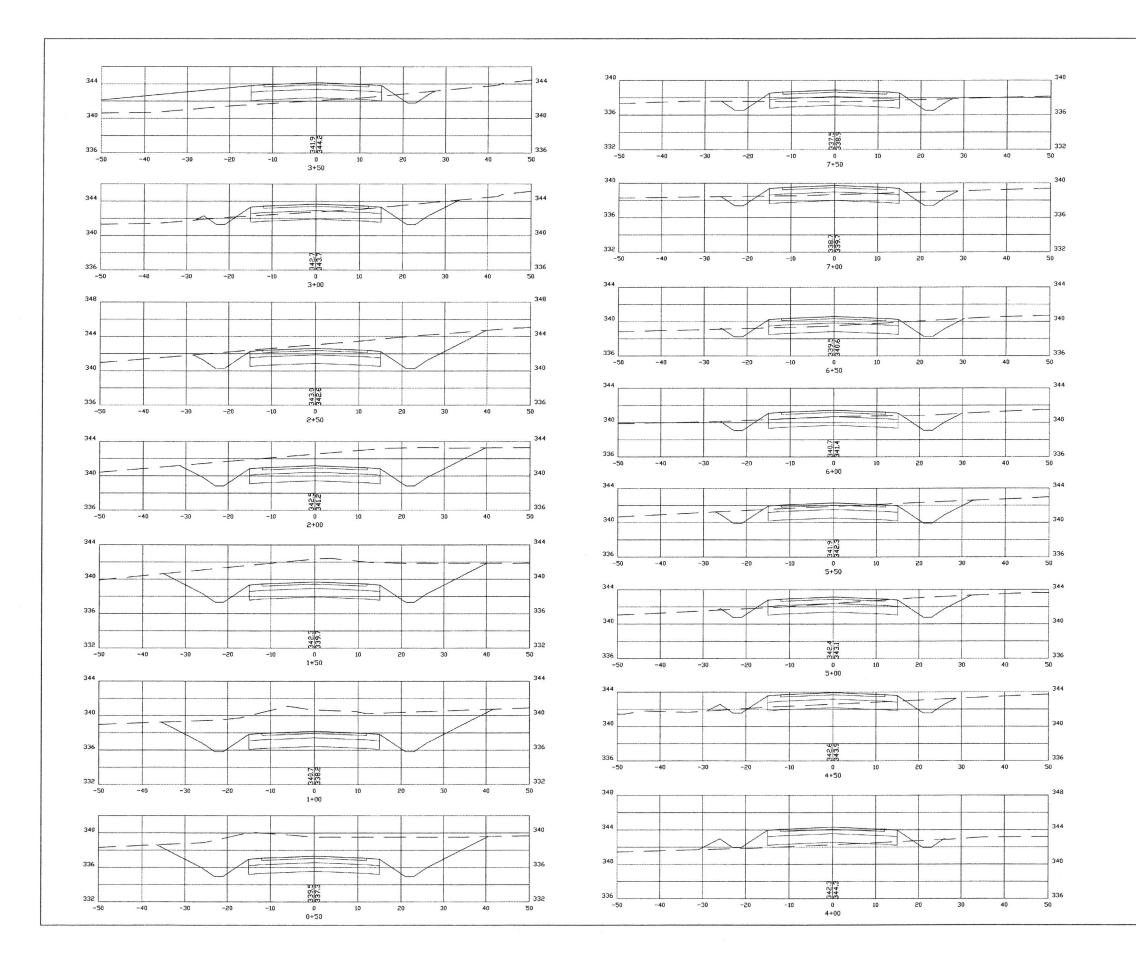
SEEDING GUIDE

MANINI LINANUE. 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

SEEDING WELL DROUGHTY DRAINED DRAINED USE GOOD GOOD GOOD FAIR EXCELLENT GOOD FAIR EXCELLENT GOOD EXCELLENT FAIR POOR POOR FAIR FAIR FAIR WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER. GOOD EXCELLENT EXCELLENT EXCELLENT EXCELLENT LIGHTLY USED PARKING GOOD GOOD UNUSED LANDS, AND LOW INTENSITY USE FAIR EXCELLENT EXCELLENT EXCELLENT GRAVEL PIT, SEE NH-PM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.

1/ refer to seeding mixtures and rates in Table 7-36.
2Z Poorly drained soils are not desirable for use as playing area and athletic fields.

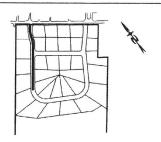
NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR DATS AT A RATE OF 2.5 LBS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO DCT. 15, IF PERMANENT SEEDING NOT YET COMPLETE.



J&L TERRA HOLDINGS, INC. 79 EXETER ROAD N. HAMPTON, N.H. 03862

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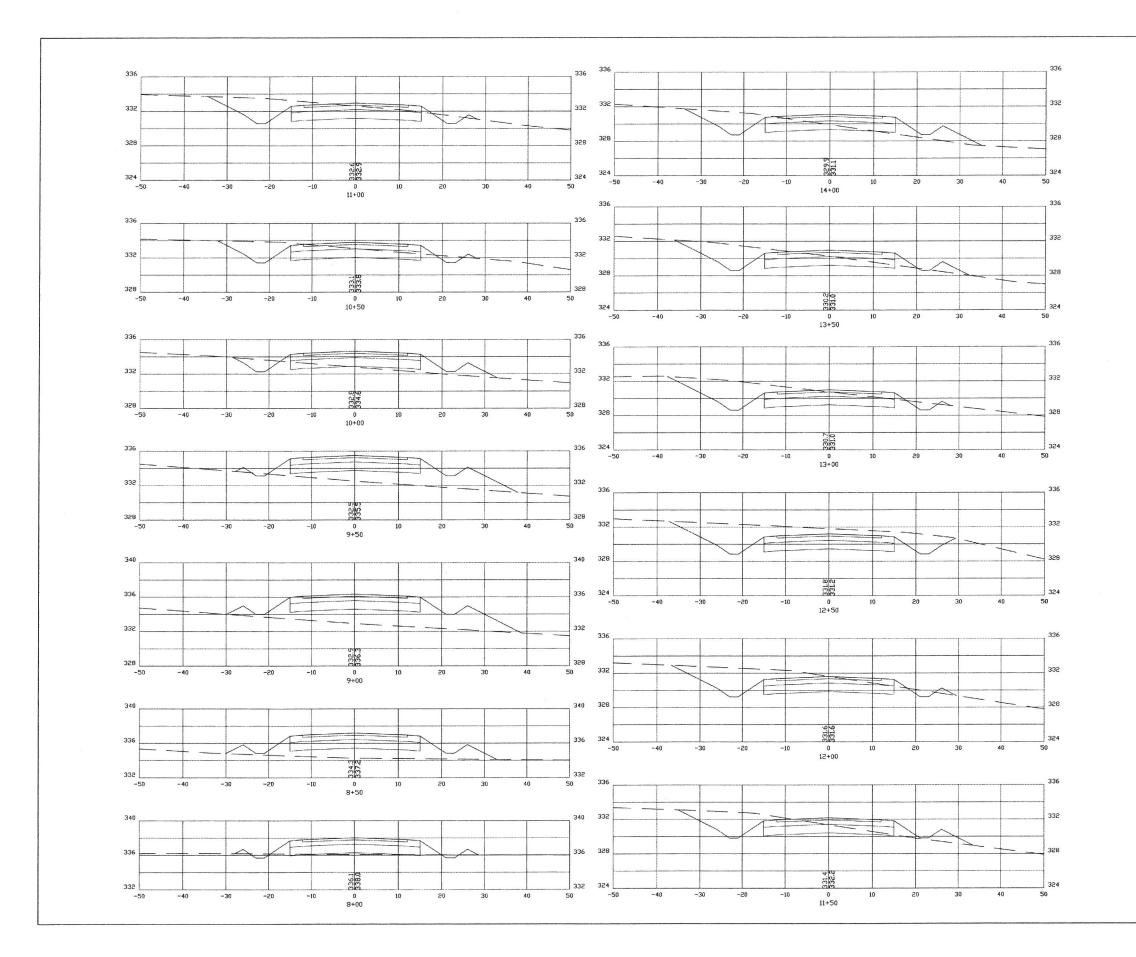
LOCATION LEGEND 1"=500'

CROSS SECTION SCALES:
HORIZONTAL: 1"=10'
VERTICAL: 1"=5'

PER NHDES REVIEW	8/16/18
REVISE PER TRG & PLANNING BOARD	2/16/18
REVISIONS:	DATE:

ROADWAY CROSS SECTIONS

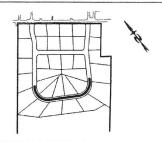
DATE: AUG, 2017	SCALE: 1" = 10'
PROJ. NO: NH-1007	SHEET NO. 17 OF 20



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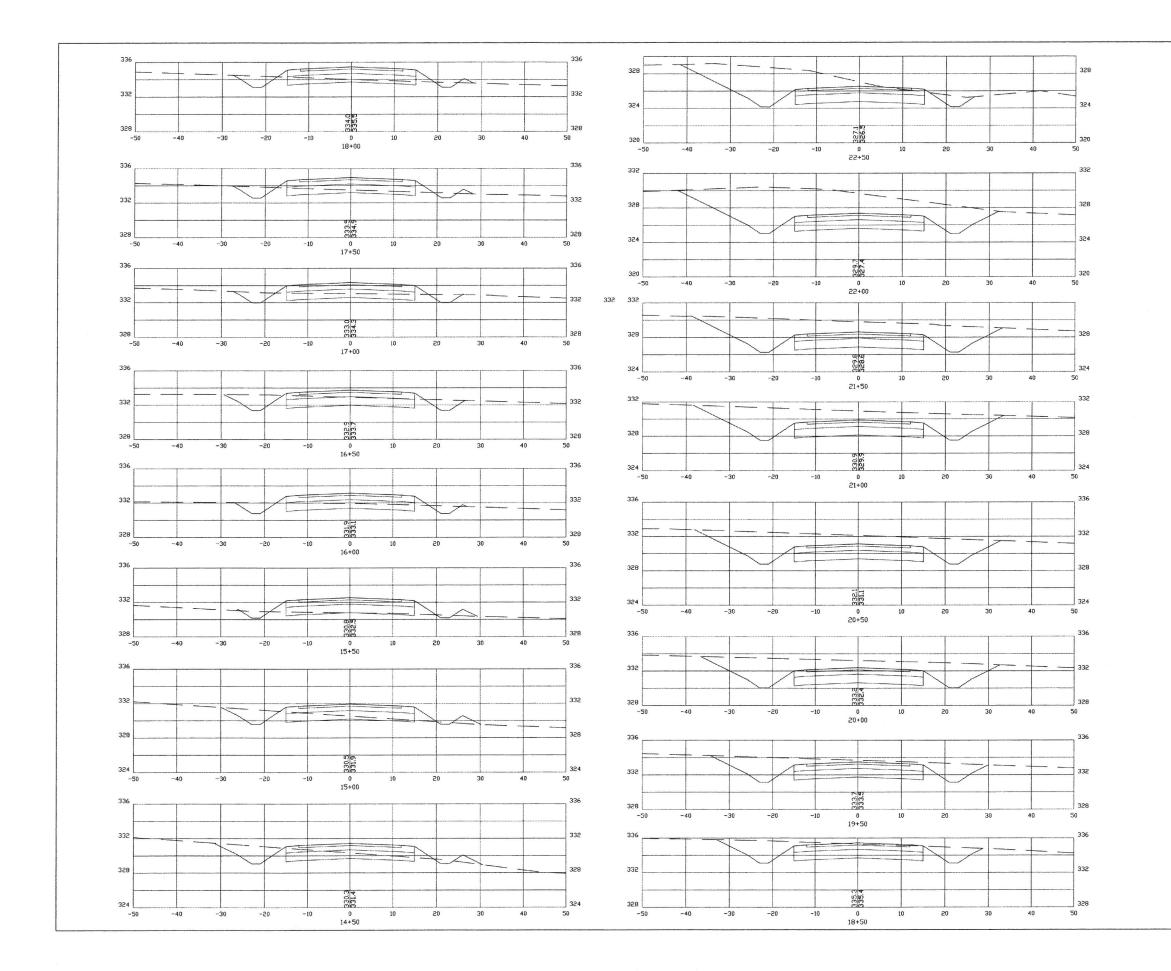
LOCATION LEGEND 1"=500'

CROSS SECTION SCALES:
HORIZONTAL: 1"=10'
VERTICAL: 1"=5'

PER NHDES REVIEW	8/16/18
REVISE PER TRG & PLANNING BOARD	2/16/18
REVISIONS:	DATE

ROADWAY CROSS SECTIONS

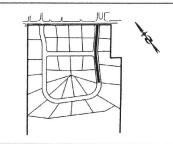
DATE: AUG, 2017	SCALE: 1" = 10'
PROL NO: NH-1007	SHEFT NO. 18 OF 20



J&L TERRA HOLDINGS, INC. 79 EXETER ROAD N. HAMPTON, N.H. 03862

BEALS · ASSOCIATES PLLC

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



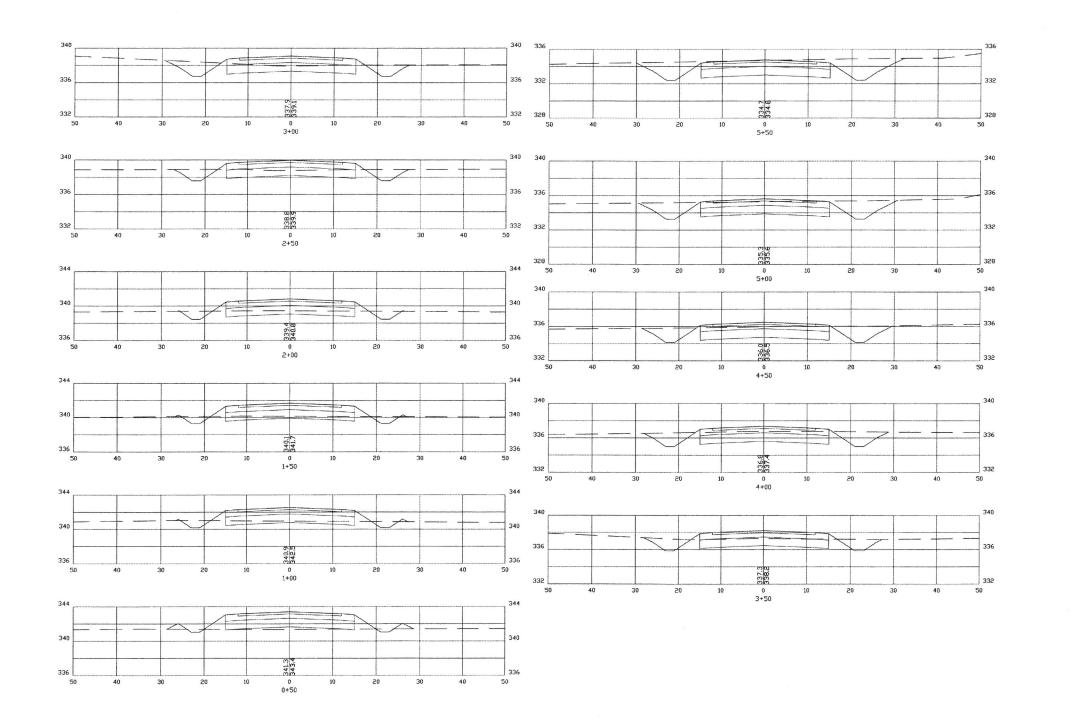
LOCATION LEGEND 1"=500'

CROSS SECTION SCALES: HORIZONTAL: 1"=10'
VERTICAL: 1"=5'

PER NHDES REVIEW	8/16/18
REVISE PER TRG & PLANNING BOARD	2/16/18
REVISIONS:	DATE:

ROADWAY CROSS SECTIONS

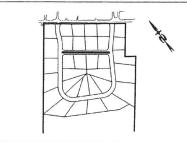
DATE: AUG, 2017	SCALE: 1" = 10'
PROJ. N0: NH-1007	SHEET NO. 19 OF 20



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LOCATION LEGEND 1"=500'

CROSS SECTION SCALES:
HORIZONTAL: 1"=10'
VERTICAL: 1"=5'

REVISE	PER TE	RG &c	PLANNING BOARD	2/16/18

ROADWAY CROSS SECTIONS

DATE: AUG, 2017	SCALE: 1" = 10"
PROT NO: NH-1007	SHEET NO. 20 OF 20