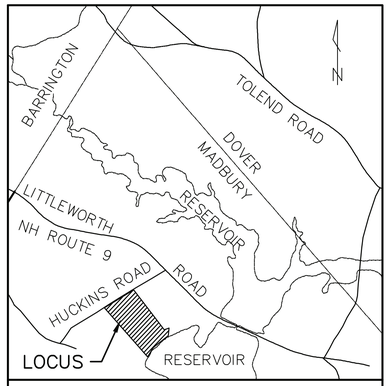
3 LOT RESIDENTIAL SUBDIVISION

TAX MAP 1, LOT 16
14 HUCKINS ROAD
MADBURY, NH
MAY 3, 2022
REVISED: JULY 20, 2022
REVISED: AUGUST 29, 2022
REVISED: SEPTEMBER 28,2022



LOCATION PLAN
(NO SCALE)

OWNER/APPLICANT

ZELAND SCHWARTZ REVOCABLE TRUST
ZELAND SCHWARTZ, TRUSTEE
14 HUCKINS ROAD
MADBURY, NH 03823

CIVIL ENGINEER

CIVILWORKS NEW ENGLAND
CIVIL & WATERFRONT ENGINEERING
181 Watson Road, PO Box 1166
Dover, New Hampshire 03821
603.749.0443

LAND SURVEYOR

McENEANEY SURVEY ASSOCIATES OF NEW ENGLAND
P.O. BOX 681
24 CHESTNUT STREET
DOVER, NH 03820
(603) 742–0911

SOIL SCIENTIST

JAMES P. GOVE, CSS
GOVE ENVIRONMENTAL SERVICES, INC.
8 CONTINENTAL DRIVE–UNIT H
EXETER, NH 03833–7507
(603) 778–0644

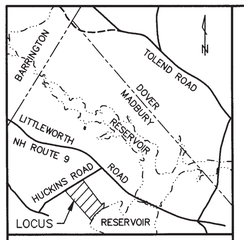
WETLAND SCIENTIST

DAMON E. BURT, CWS
FRAGGLE ROCK ENVIRONMENTAL
38 GARLAND ROAD
STRAFFORD, NH 03884
(603) 969–5574

SHEET INDEX

Approved by the Town of Madbury, NH
Planning Board:

Chairman



LOCATION PLAN
(NO SCALE)

ABUTTERS ACROSS HUCKINS ROAD

1 / 13	BRENDAN JAMES FORGET KRISTEN LEIGH FORGET 11 HUCKINS ROAD MADBURY, NH 03823 4749 / 517	1 / 37-E1	ELIZABETH A. BOUTIN ARTHUR P. BOUTIN. III 9A HUCKINS ROAD MADBURY, NH 03823 4502 / 543
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1 / 37B	RICHARD E. BROUGHTON JOHANNA BROUGHTON 15 HUCKINS ROAD MADBURY, NH 03823 3091 / 896		

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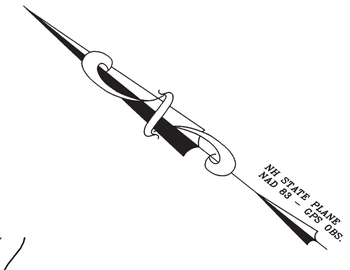

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ZELAND SCHWARTZ, TRUSTEE
ZELAND SCHWARTZ REVOCABLE TRUST
14 HUCKINS ROAD
MADBURY, NEW HAMPSHIRE 03823
S.C.R.D. VOLUME 4704, PAGE 448

2.) 1 / 16 – DENOTES TAX MAP AND PARCEL NUMBER.

3.) TOTAL PARCEL AREA = 910,026 S.F. / 20.89 Ac.

4.) THE INTENT OF THIS PLAN IS TO SHOW THE PROPOSED SUBDIVISION IN RELATION TO THE SURROUNDING LOTS.

SHEET 2

LEGEND

S.F. – SQUARE FEET
Ac. – ACRE
(TYP.) – TYPICAL
± – MORE OR LESS
ø – DIAMETER
S.C.R.D. – STRAFFORD COUNTY REGISTRY OF DEEDS
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(S) – SEPTIC TANK COVER
CMP – CORRUGATED METAL PIPE
S.S.(fnd) – STEEL STAKE FOUND (DAVIS ENG.)
I.R.(fnd) – IRON ROD FOUND
I.R.(tbs) – IRON ROD WITH ID CAP #661 TO BE SET

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

NEIGHBORHOOD PLAN
PREPARED FOR
ZELAND SCHWARTZ REVOCABLE TRUST
TAX MAP 1, LOT No. 16
14 HUCKINS ROAD
TOWN of MADBURY
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DRAWN BY: KJF	FILE: MSA\2318\DWG\21-2318S
SCALE: 1" = 100'	DATE: APRIL 11, 2022

100 50 0 50 100 200 300 400

STATE OF NEW HAMPSHIRE – No. 661 – KEVIN M. MCENEANEY – LICENSED LAND SURVEYOR – SIGNATURE

McEneaney Survey Associates of NEW ENGLAND
P.O. Box 681 – 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742-0911

SURVEYING – PLANNING – CONSULTING

NO.	DATE	DESCRIPTION	BY	CHK
4	9/28/22	REVISE PER PLANNING COMMENTS	JRG	KMM
3	8/29/22	REVISE PER PLANNING COMMENTS	JRG	KMM
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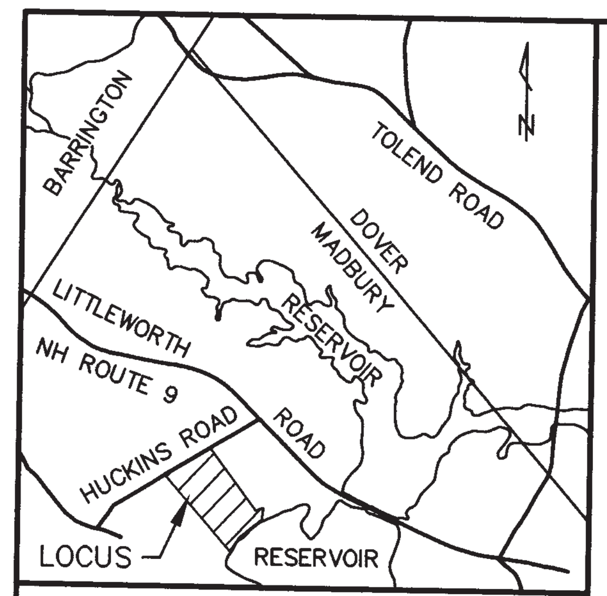
1	4/11/22	REVISE PER PLANNING COMMENTS	KJF	KMM

REVISIONS

21-2318	SUBDIVISION	21-08	44-55
PROJECT NO	TYPE	FIELDBOOK & PAGES	



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STATE OF NEW HAMPSHIRE
DAMON E. BURT
No. 163
CERTIFIED WETLAND SCIENTIST

1 / 17
WILLIAM H. TAYLOR
RENADA L. TAYLOR
242 LITTLEWORTH ROAD
MADBURY, NH 03823
2274 / 534

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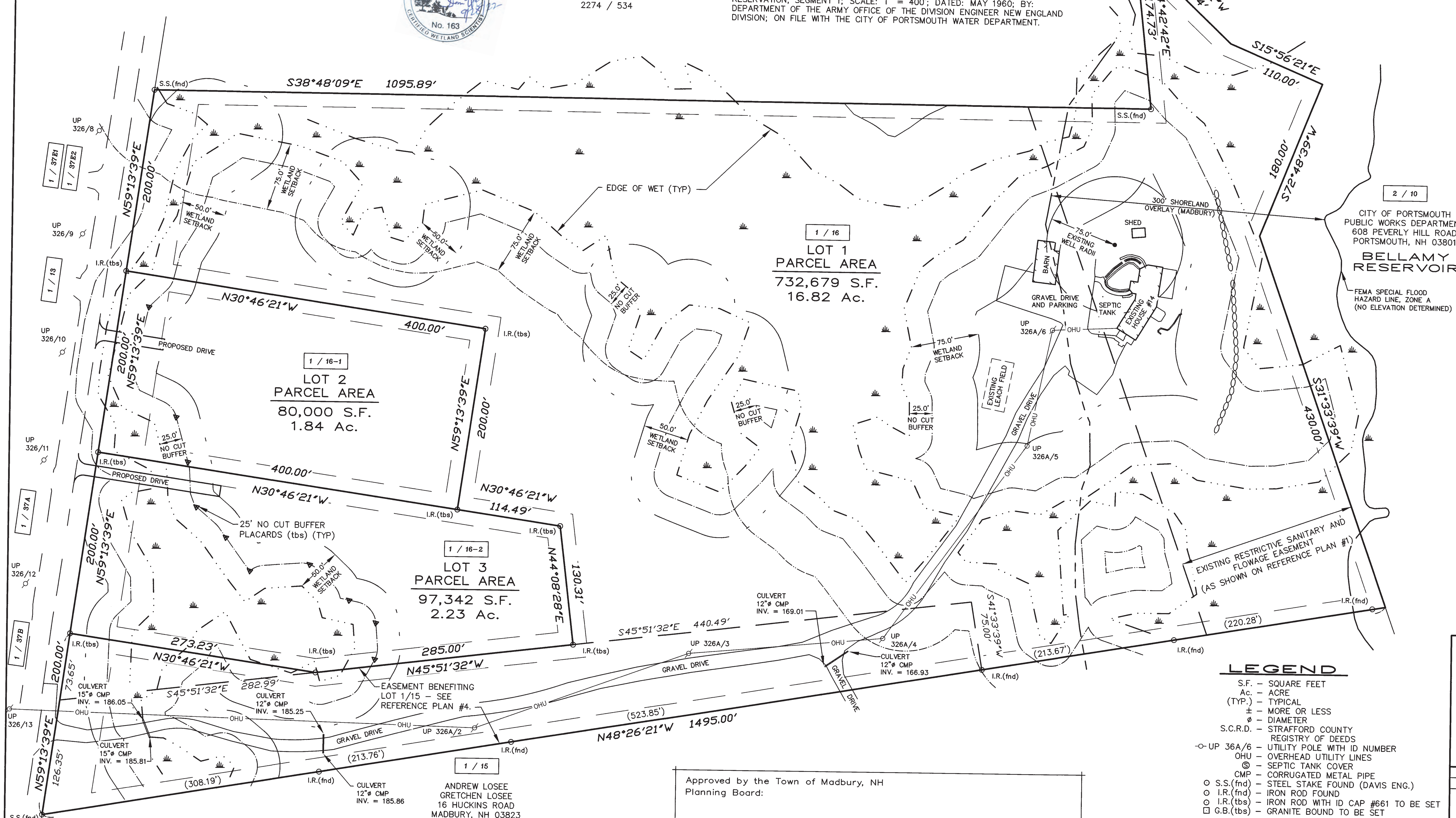

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ZELAND SCHWARTZ REVOCABLE TRUST
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S.C.R.D. VOLUME 4704, PAGE 448

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MINIMUM FRONTAGE = 200 FEET
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THE PARCEL IS ALSO SUBJECT TO THE WET AREA CONSERVATION OVERLAY DISTRICT (WC), THE SHORELAND PROTECTION OVERLAY DISTRICT, AND THE FLOOD HAZARD OVERLAY DISTRICT.

6.) A PORTION OF THE SUBJECT PARCEL IS LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 330219; MAP NUMBER 33017C0305E; EFFECTIVE DATE 9/30/2015.

7.) BASIS OF BEARING IS NH STATE PLANE (NAD83) BASED ON GPS OBSERVATION DATED JULY 20, 2021.
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8.) SITE SPECIFIC SOIL MAPPING (SSSM) WAS CONDUCTED BY JAMES P. GOVE OF GOVE ENVIRONMENTAL SERVICES, INC., NHCSS #004, IN DECEMBER 2021.

9.) WETLANDS SHOWN WERE DELINEATED BY DAMON E. BURT, N.H.C.W.S. #163 OF FRAGGLE ROCK ENVIRONMENTAL SERVICES, ON JANUARY 23, 2021 IN ACCORDANCE WITH THE 1987 CORPS. OF ENGINEERS WETLANDS DELINEATION MANUAL AND LOCATED BY THIS OFFICE.

10.) TEST PITS LOGGED BY LUKE HURLEY OF GOVE ENVIRONMENTAL SERVICES, INC., CSS #95.TEST PIT LOGS REVIEWED BY STEPHEN HAIGHT PE, DESIGNER #934.

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▲ - 25' NO CUT BUFFER PLACARDS (tbs)

SUBDIVISION PLAN
PREPARED FOR
ZELAND SCHWARTZ REVOCABLE TRUST
TAX MAP 1, LOT No. 16
14 HUCKINS ROAD
TOWN of MADBURY
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DRAWN BY: KJF / JRG		FILE: MSA\2318\DWG\21-2318S	
SCALE: 1" = 60'		DATE: DECEMBER 29, 2021	

60 30 0 30 60 120 180 240

Approved by the Town of Madbury, NH
Planning Board:

Chairman

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REVISIONS

21-2318	SUBDIVISION	21-08	44-55
PROJECT NO	TYPE	FIELDBOOK & PAGES	

LOT AREAS

LOT	TOTAL AREA	STEEP SLOPE	POORLY DRAINED SOIL	VERY POORLY DRAINED SOIL	QUALIFYING LOT AREA
1	732,679 S.F.	50,833 S.F.	13,558 S.F.	205,425 S.F.	462,863 S.F.
2	80,000 S.F.	0 S.F.	3,200 S.F. (4%)	0 S.F.	80,000 S.F.
3	97,342 S.F.	0 S.F.	22,388 S.F. (23%)	0 S.F.	97,342 S.F.

NHDES STATE SUBDIVISION APPROVAL No.__________, DATE_______
(PENDING)

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

STATE OF NEW HAMPSHIRE
KEVIN M. McENEANEY
No. 661
LICENSED LAND SURVEYOR

McENEANEY SURVEY ASSOCIATES of NEW ENGLAND
P.O. Box 681 - 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742-0911
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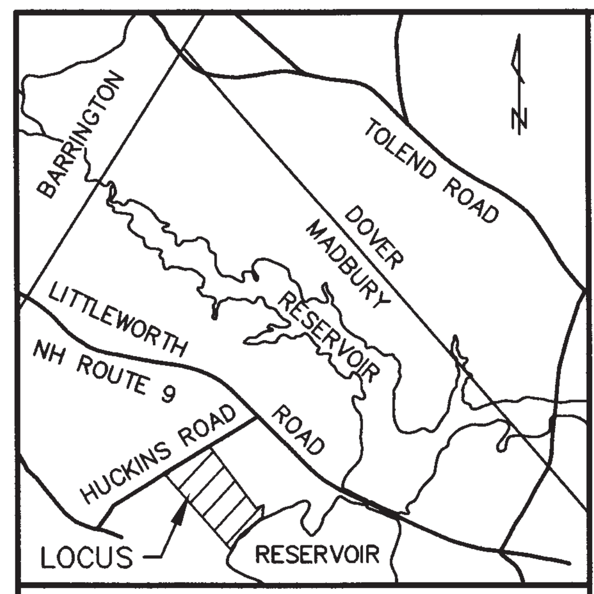

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1 / 17A

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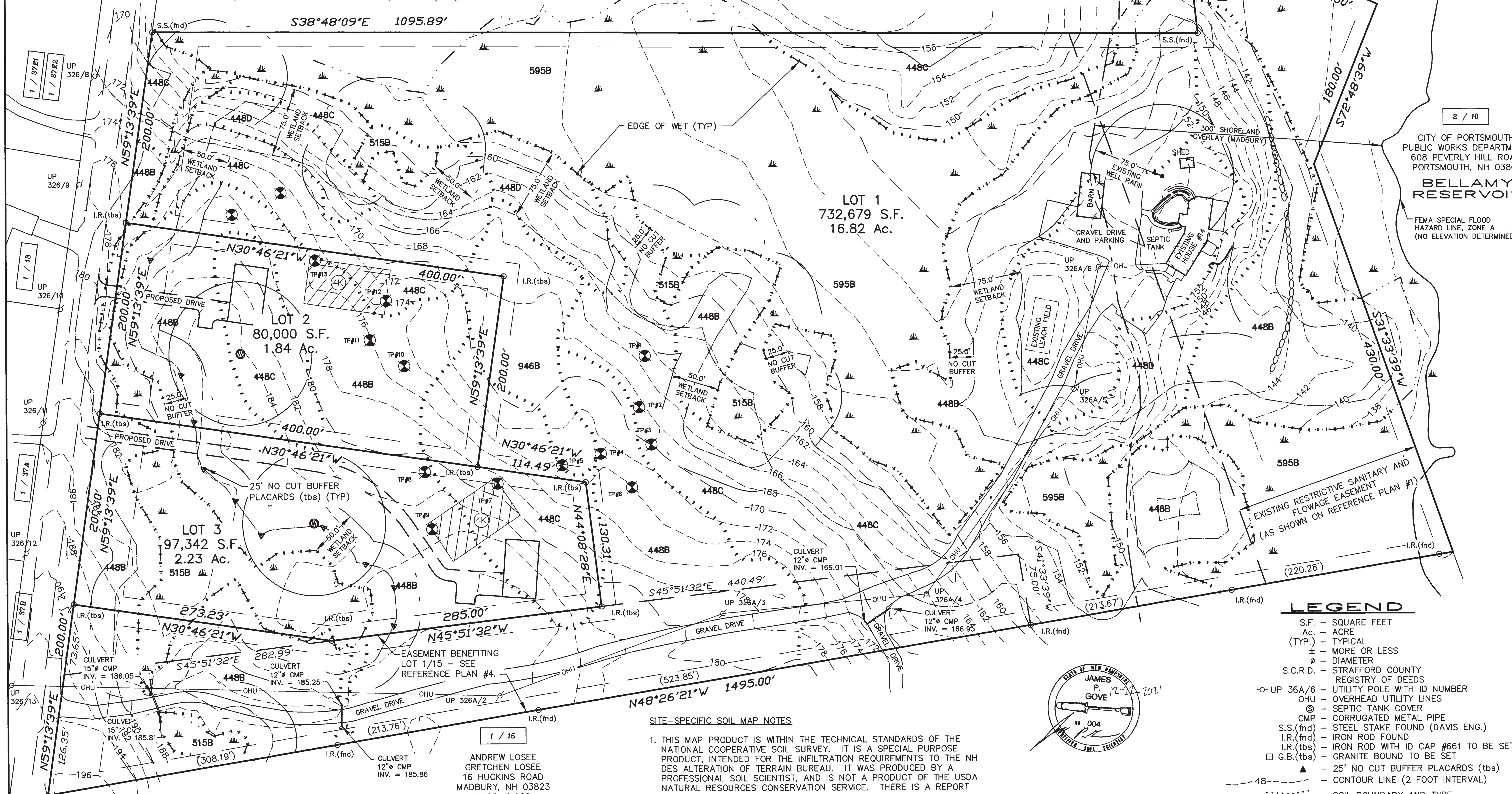

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SHEET 4

SITE–SPECIFIC SOIL MAP NOTES

1. THIS MAP PRODUCT IS WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY. IT IS A SPECIAL PURPOSE PRODUCT, INTENDED FOR THE INFILTRATION REQUIREMENTS TO THE NH DES ALTERATION OF TERRAIN BUREAU. IT WAS PRODUCED BY A PROFESSIONAL SOIL SCIENTIST, AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCES CONSERVATION SERVICE. THERE IS A REPORT THAT ACCOMPANIES THIS MAP.

2. THIS DETAILED SITE–SPECIFIC SOIL MAP CONFORMS TO THE STANDARDS OF SSSNNE PUBLICATION NO. 3, VERSION 7.0, JULY, 2021.

3. THE SITE SPECIFIC SOIL SURVEY WAS PRODUCED 12–20–21, AND WAS PREPARED BY JAMES P GOVE, CSS#004, GOVE ENVIRONMENTAL SERVICES, INC. THE SURVEY IS ON LAND AT 14 HUCKINS ROAD, MADBURY NH.

SSSM SYMBOL	HISS SYMBOL	SOIL MAP UNT NAME	HSG	ALPHA SLOPE SYMBOL
448	323	SCITUATE FINE SANDY LOAM	C	B 0–8%
946	423	RIDGEBURY (SWPD) VERY STONY	C	C 8–15%
515	523	LEICESTER, VERY STONY	C	D 15–25%
595	623	MUCK AND PEAT	D	E 25–35%

STATE OF NEW HAMPSHIRE JAMES P. GOVE No. 004 CERTIFIED SOIL SCIENTIST 12-22-2021

LEGEND

S.F. – SQUARE FEET
Ac. – ACRE
(TYP.) – TYPICAL
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Ⓢ – SEPTIC TANK COVER
CMP – CORRUGATED METAL PIPE
S.S.(fnd) – STEEL STAKE FOUND (DAVIS ENG.)
I.R.(fnd) – IRON ROD FOUND
I.R.(tbs) – IRON ROD WITH ID CAP #661 TO BE SET
G.B.(tbs) – GRANITE BOUND TO BE SET
▲ – 25' NO CUT BUFFER PLACARDS (tbs)
48 – CONTOUR LINE (2 FOOT INTERVAL)
– SOIL BOUNDARY AND TYPE
– WETLAND BOUNDARY AND SYMBOL

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

TOPOGRAPHIC SUBDIVISION PLAN

PREPARED FOR

ZELAND SCHWARTZ REVOCABLE TRUST

TAX MAP 1, LOT No. 16

14 HUCKINS ROAD
TOWN of MADBURY
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DRAWN BY: KJF / JRG	FILE: MSA\2318\DWG\21–2318S
SCALE: 1" = 60'	DATE: DECEMBER 29, 2021

60 30 0 30 60 120 180 240

STATE OF NEW HAMPSHIRE No. 661 KEVIN M. McENEANEY LICENSED LAND SURVEYOR SIGNATURE

McENEANEY SURVEY ASSOCIATES of NEW ENGLAND
P.O. Box 681 – 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742–0911
SURVEYING – PLANNING – CONSULTING

NO.	DATE	DESCRIPTION	BY	CHK
4	9/28/22	REVISE PER PLANNING COMMENTS	JRG	KMM
3	8/29/22	REVISE PER PLANNING COMMENTS	JRG	KMM
2	7/20/22	REVISE PER PLANNING COMMENTS	JRG	KMM
1	4/11/22	REVISE PER PLANNING COMMENTS	KJF	KMM

REVISIONS

PROJECT NO	TYPE	FIELDBOOK & PAGES	
21–2318	SUBDIVISION	21–08	44–55

NHDES STATE SUBDIVISION APPROVAL No.___________, DATE______
(PENDING)

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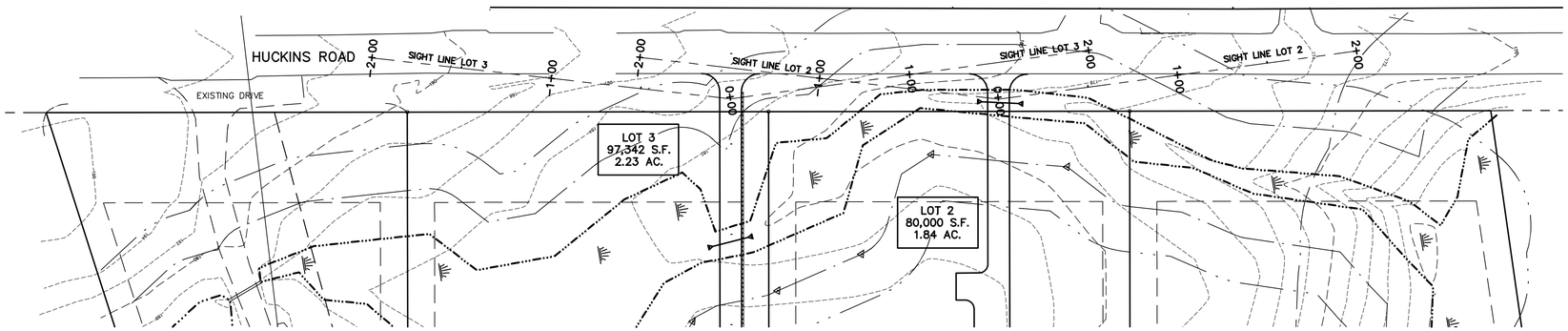
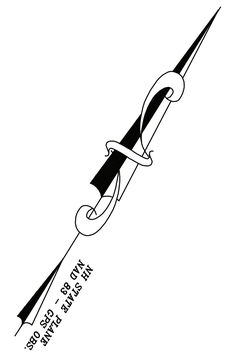
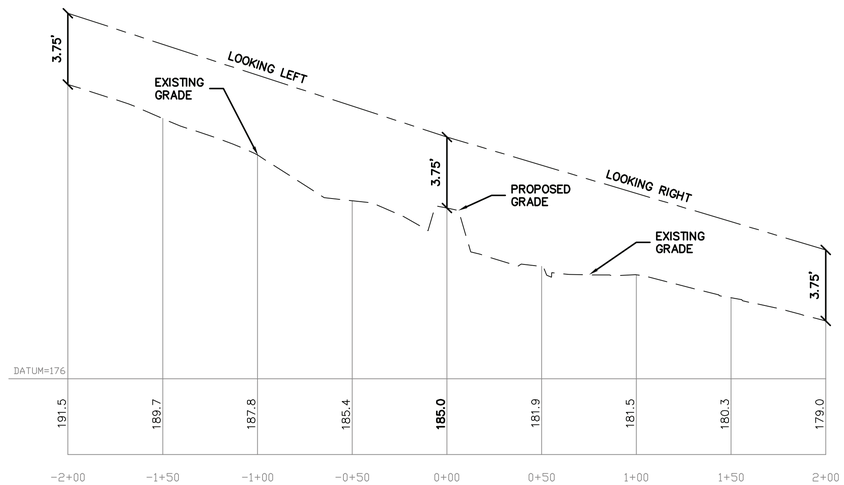
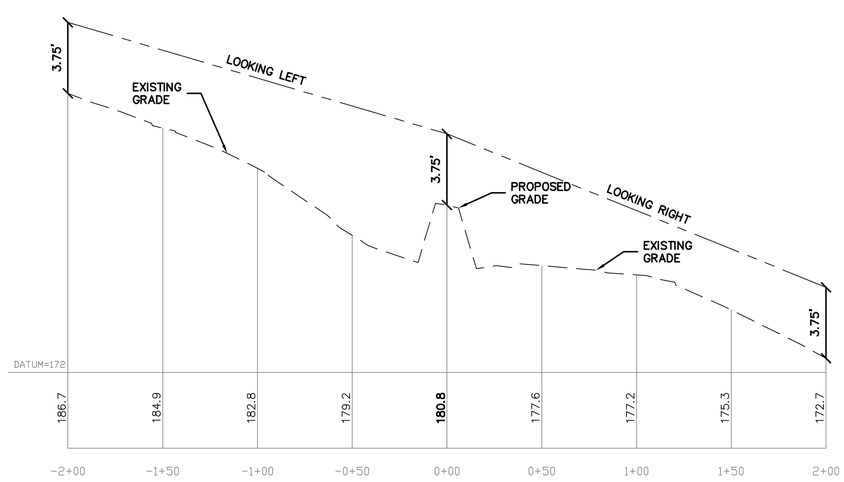


200' ALL SEASON SIGHT DISTANCE PLAN
HORIZONTAL SCALE: 1"=40'





200' ALL SEASON SIGHT PROFILE: LOT 3
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'



200' ALL SEASON SIGHT PROFILE: LOT 2
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)

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Dover, New Hampshire 03821
603.749.0443

NO.	REVISION	APP'D	DATE
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2	PER PB COMMENTS	SJH	8-29-22
1	PER PB COMMENTS	SJH	7-20-22

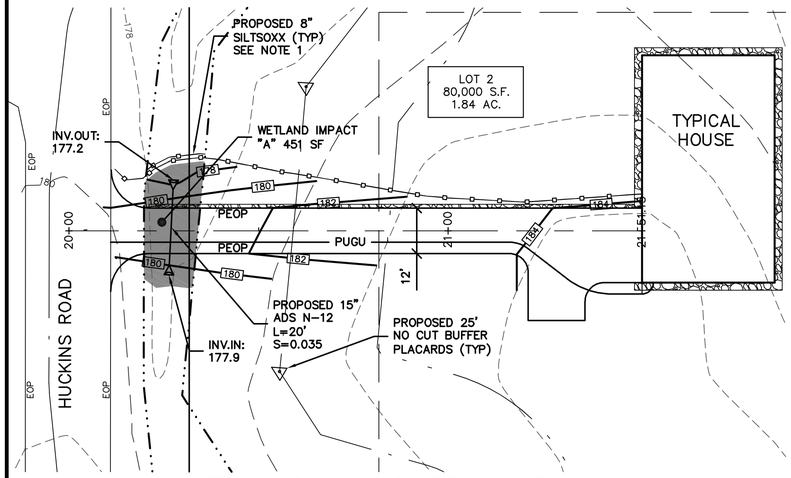
DATE: 5-3-22
SCALE: AS SHOWN
DRAWN BY: CAD
DESIGN BY: CAD
APPROVED BY:SJH
PROJECT NO:20052A
FILE: SITE

STEPHEN JOSEPH WRIGHT No. 7975 LICENSED PROFESSIONAL ENGINEER STATE OF NEW HAMPSHIRE

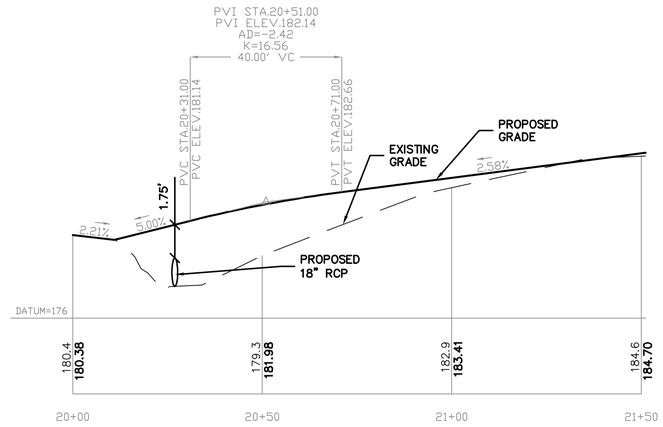
DRIVEWAY SIGHT DISTANCE PLAN AND PROFILES

ZELAND SCHWARTZ
14 HUCKINS ROAD
MADBURY, NH 03823

4 LOT RESIDENTIAL SUBDIVISION
14 HUCKINS ROAD
MADBURY, NH 03823



WETLAND CROSSING IMPACT PLAN: LOT 2
SCALE: 1"=20'



DRIVEWAY PROFILE: LOT 2
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

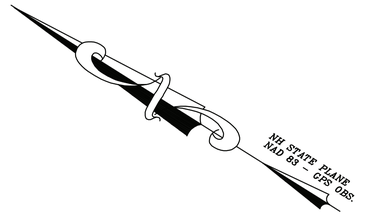
REFERENCE PLAN(S):

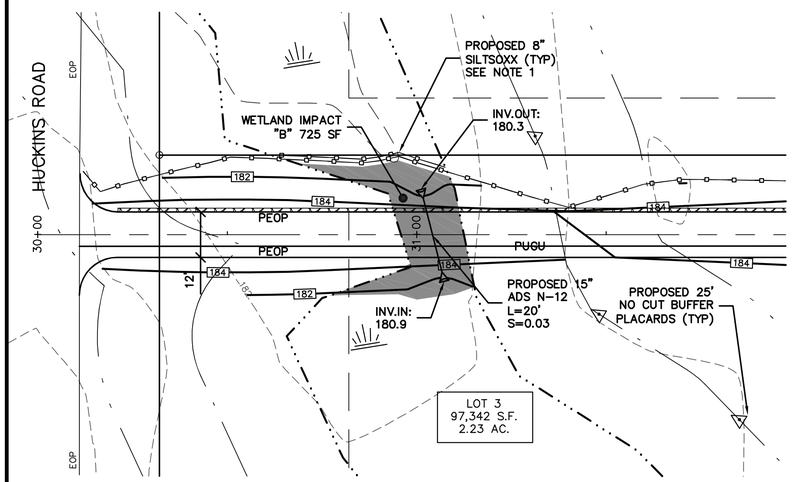
1. SUBDIVISION PLAN PREPARED FOR ZELAND SCHWARTZ, TAX MAP 1, LOT NO. 16, 14 HUCKING ROAD, TOWN OF MADBURY, COUNTY OF STRAFFORD, STATE OF NEW HAMPSHIRE, DATE 12/29/2021, REVISED THROUGH 9/28/22, SCALE 1"=60', PREPARED BY MCENEANEY SURVEY ASSOCIATES OF NEW ENGLAND.

NOTES:

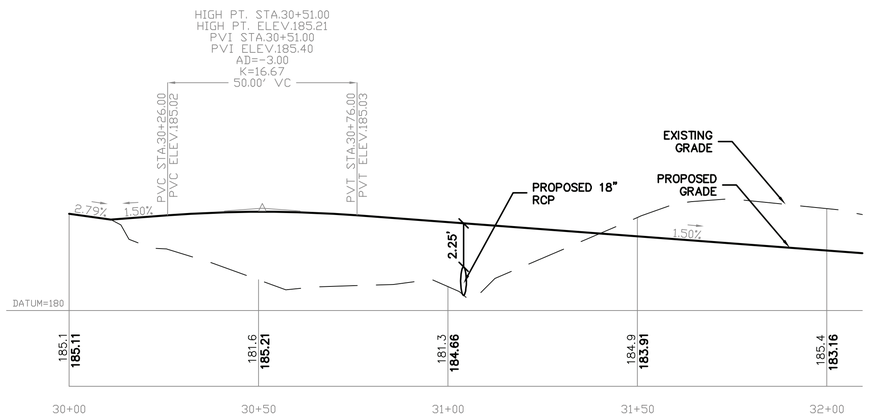
1. INSTALL A DOUBLE ROW OF 8" SILTSOXX AT THE OUTLET OF EACH CULVERT. ALL OTHER AREAS SHALL HAVE A SINGLE ROW, SEE PLAN FOR LOCATIONS.
2. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AND MAINTAINED AT EACH DRIVEWAY LOCATION FOR THE DURATION OF THE CONSTRUCTION.
3. IF GUTTERS ARE INSTALLED, ROOF RUNOFF SHALL BE DIRECTED TO A DRYWELL (SEE HOMEOWNER PACKAGE).
4. STUMPS SHALL NOT BE BURIED ON-SITE NOR PLACED IN THE WETLAND AREA.

WETLAND IMPACT A:	451 SF
WETLAND IMPACT B:	725 SF
TOTAL WETLAND IMPACT:	1,176 S.F.





WETLAND CROSSING IMPACT PLAN: LOT 3
SCALE: 1"=20'



DRIVEWAY PROFILE: LOT 3
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

LEGEND:

	PROPERTY LINE
	PROPOSED SILTSOXX
PUGU	PROPOSED UNDERGROUND UTILITIES
PEOP	PROPOSED EDGE OF PAVEMENT
EOP	EDGE OF PAVEMENT
S.F.	SQUARE FOOT
INV.	INVERT
(TYP)	TYPICAL
AC.	ACRE
RCP	REINFORCED CONCRETE PIPE
	EDGE OF WET
870	PROPOSED GRADE
	WETLAND IMPACT

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

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SCALE: AS SHOWN
DRAWN BY: CAD
DESIGN BY: CAD
APPROVED BY:SJH
PROJECT NO: 20052A
FILE: SITE

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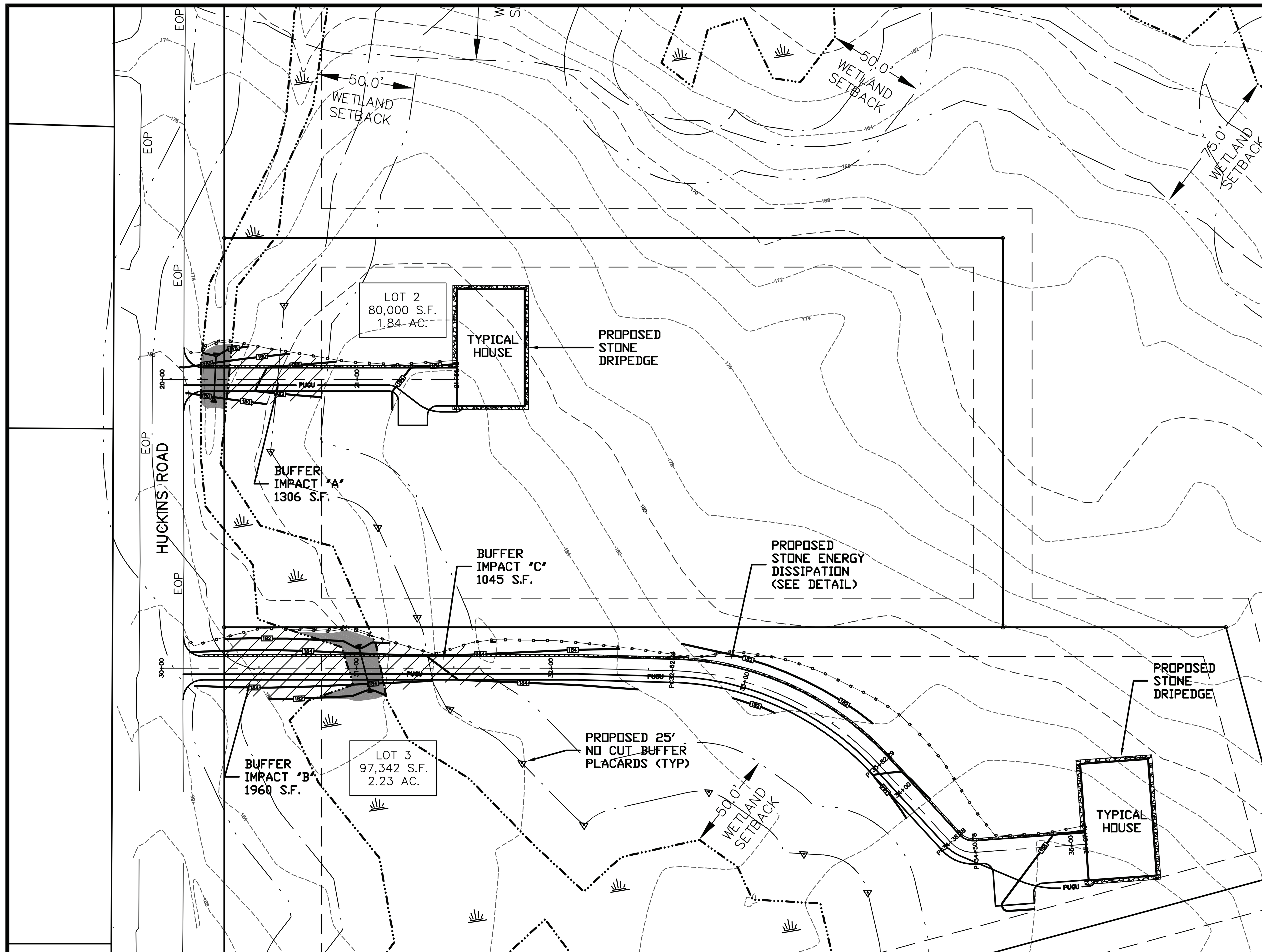
STEPHEN J. WAIGHT NO. 7978 LICENSED PROFESSIONAL ENGINEER STATE OF NEW HAMPSHIRE

WETLAND IMPACT PLAN

ZELAND SCHWARTZ
14 HUCKINS ROAD
MADBURY, NH 03823

4 LOT RESIDENTIAL SUBDIVISION
14 HUCKINS ROAD
MADBURY, NH 03823



WETLAND BUFFER IMPACT EXHIBIT

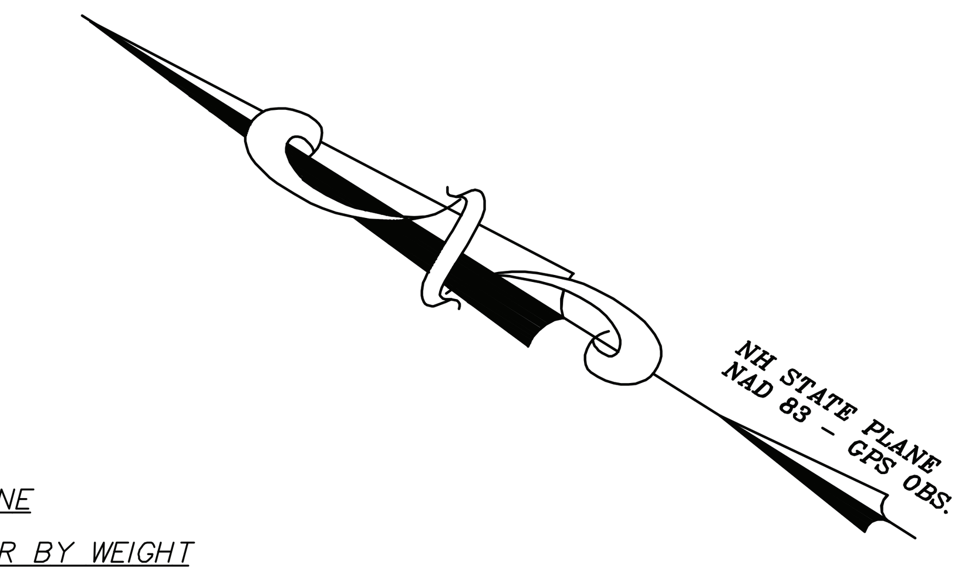
SCALE: 1"=40'

REFERENCE PLAN(S):

1. SUBDIVISION PLAN PREPARED FOR ZELAND SCHWARTZ, TAX MAP 1, LOT NO. 16, 14 HUCKING ROAD, TOWN OF MADBURY, COUNTY OF STRAFFORD, STATE OF NEW HAMPSHIRE, DATE 12/29/2021, REVISED THROUGH 9/28/22, SCALE 1"=60', PREPARED BY MCENEANEY SURVEY ASSOCIATES OF NEW ENGLAND.

NOTES:

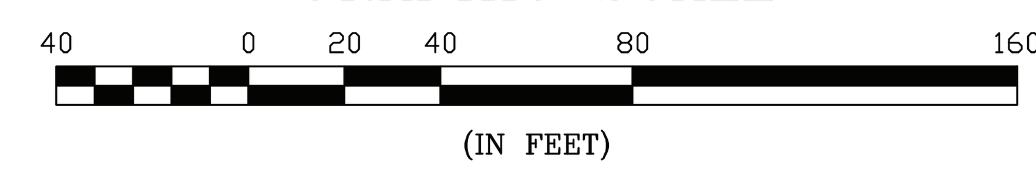
1. INSTALL A DOUBLE ROW OF 8" SILTSOXX AT THE OUTLET OF EACH CULVERT. ALL OTHER AREAS SHALL HAVE A SINGLE ROW, SEE PLAN FOR LOCATIONS.
2. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AND MAINTAINED AT EACH DRIVEWAY LOCATION FOR THE DURATION OF THE CONSTRUCTION.
3. IF GUTTERS ARE INSTALLED, ROOF RUNOFF SHALL BE DIRECTED TO A DRYWELL (SEE HOMEOWNER PACKAGE).
4. STUMPS SHALL NOT BE BURIED ON-SITE NOR PLACED IN THE WETLAND AREA.



LEGEND:

(line)	PROPERTY LINE
(line)	PROPOSED SILTSOXX
— PUGU —	PROPOSED UNDERGROUND UTILITIES
PEOP	PROPOSED EDGE OF PAVEMENT
EOP	EDGE OF PAVEMENT
S.F.	SQUARE FOOT
INV.	INVERT
(TYP)	TYPICAL
AC.	ACRE
— · · · —	EDGE OF WET
870	PROPOSED GRADE
(hatch)	WETLAND BUFFER IMPACT

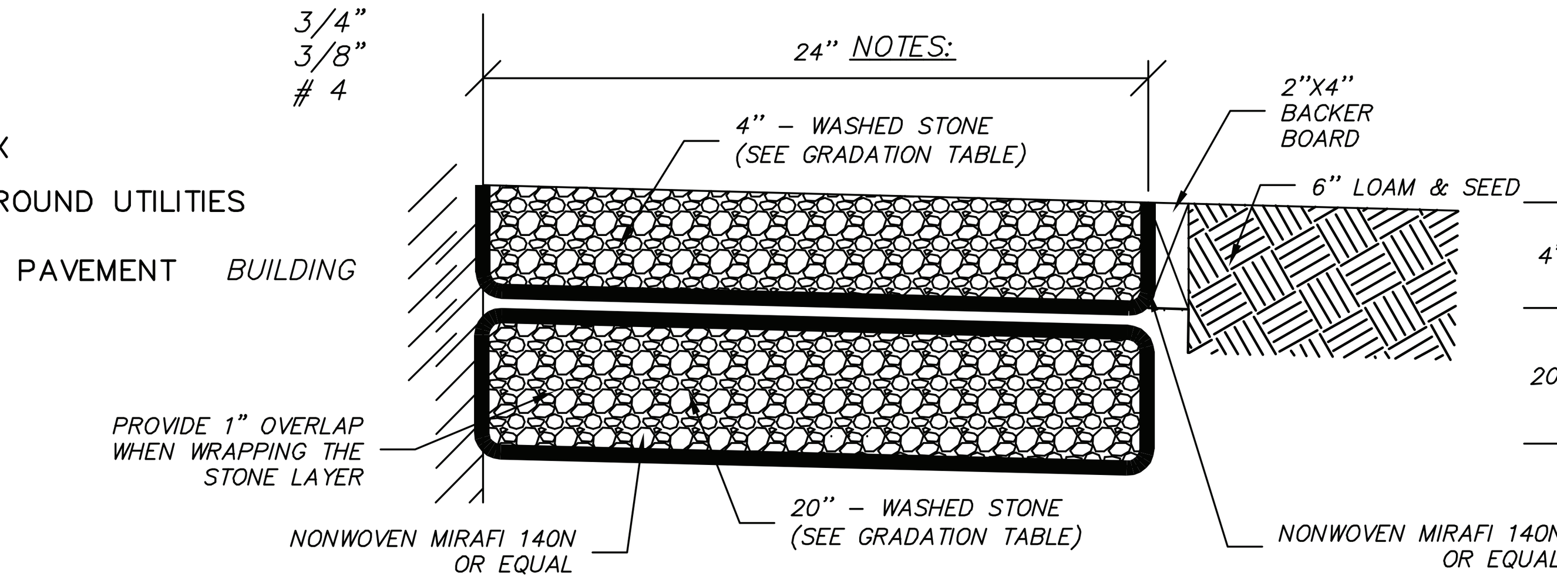
GRAPHIC SCALE



WASHED STONE

SIEVE SIZE	% FINER BY WEIGHT
1"	100
3/4"	90 – 100
3/8"	20 – 55
# 4	0

SEE SITE PLAN FOR LIMITS OF STONE DRIPEDGE



INSTALLATION NOTES:

1. THE FILTER FABRIC SHALL BE ENTIRELY WRAPPED AROUND THE 20" LAYER OF STONE.
2. A SECOND FILTER FABRIC SHALL BE LAID ON TOP AND ATTACHED TO THE BACKER BOARDTO CREAT A "U". THIS ALLOWS FOR EASY REMOVAL OF TOP 4" OF STONEA AND "U" SAPED FABRIC, FOR MAINTENANCE.

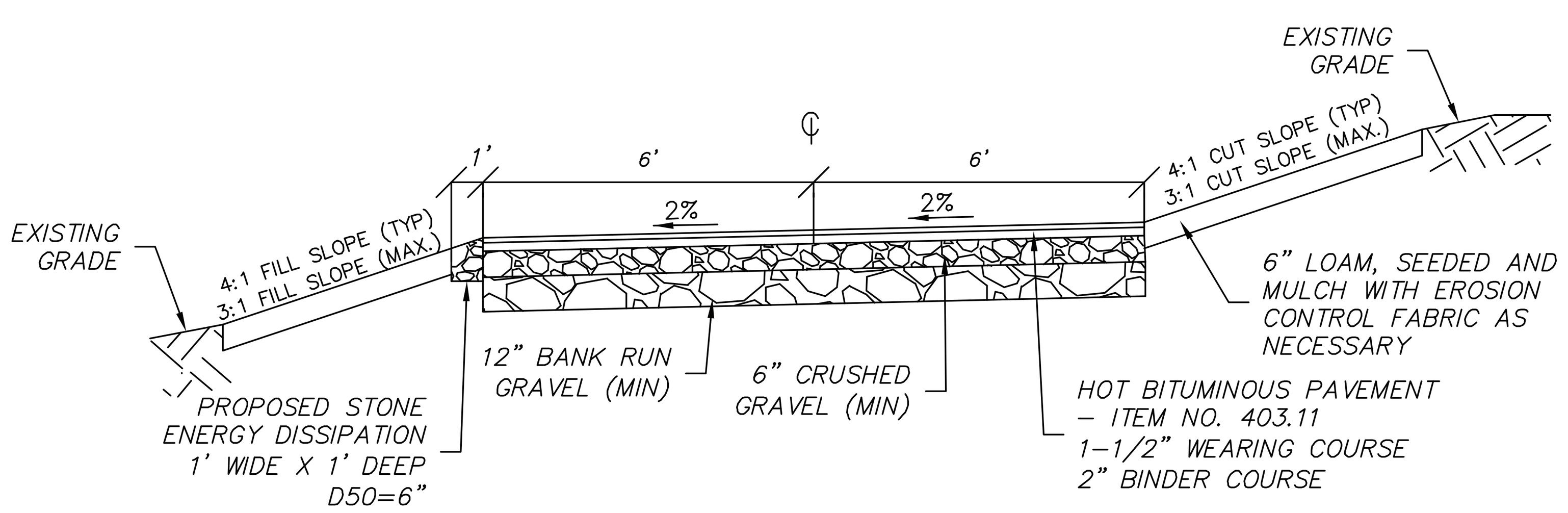
MAINTENANCE NOTES:

IF PONDING OR SAND/DEBRIS BUILD UP IS NOTICED FOLLOW HE BELOW STEPS

1. REMOVE TOP 4" OF STONE AND THE "U" SHAPED FILTER FABRIC.
2. CLEAN THE TOP OF THE FILTER FABRIC THAT IS WRAPPED AROUND 20" LAYER OF STONE.
3. INSPECT ANY RIPS OR TEARS IN FABRIC, IF ANY. LAY ADDITIONAL FILTER FABRIC OVER THE RIPS OR THE TEARS.
4. CLEAN AND INSPECT THE "U" SHAPED FILTER FABRIC THAT WAS REMOVED. IF THERE IS NO TEARS OR RIPS THE FILTER FABRIC MAY BE REUSED.
5. INSPECT AND REMOVE ANY SAND OR DEBRIS FROM THE TOP 4" LAYER OF STONE.
6. RE-INSTALL FILTER FABRIC AND 4" STONE LAYER

STONE DRIPEDGE

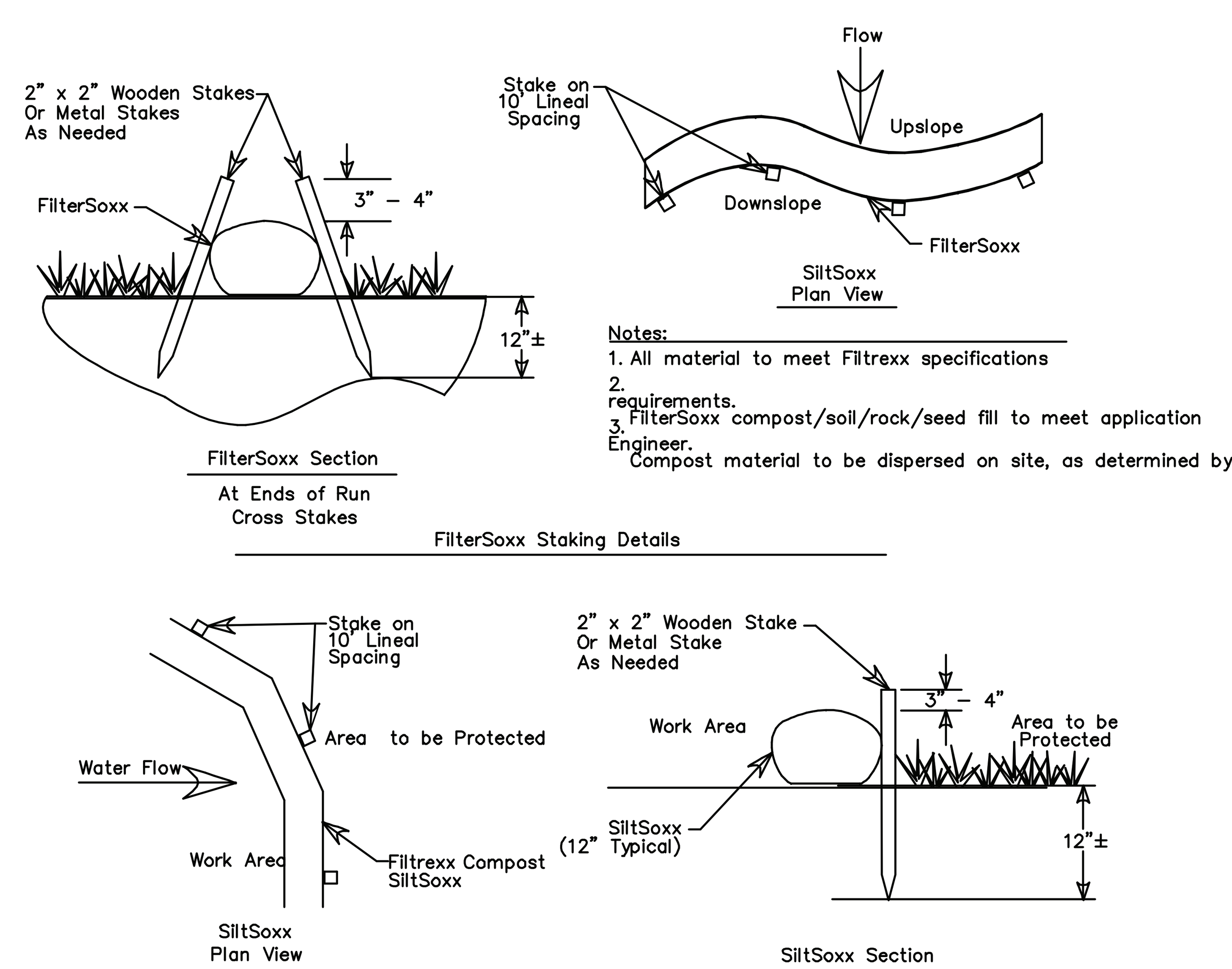
NOT TO SCALE



TYPICAL CROSS-SECTION

NOT TO SCALE

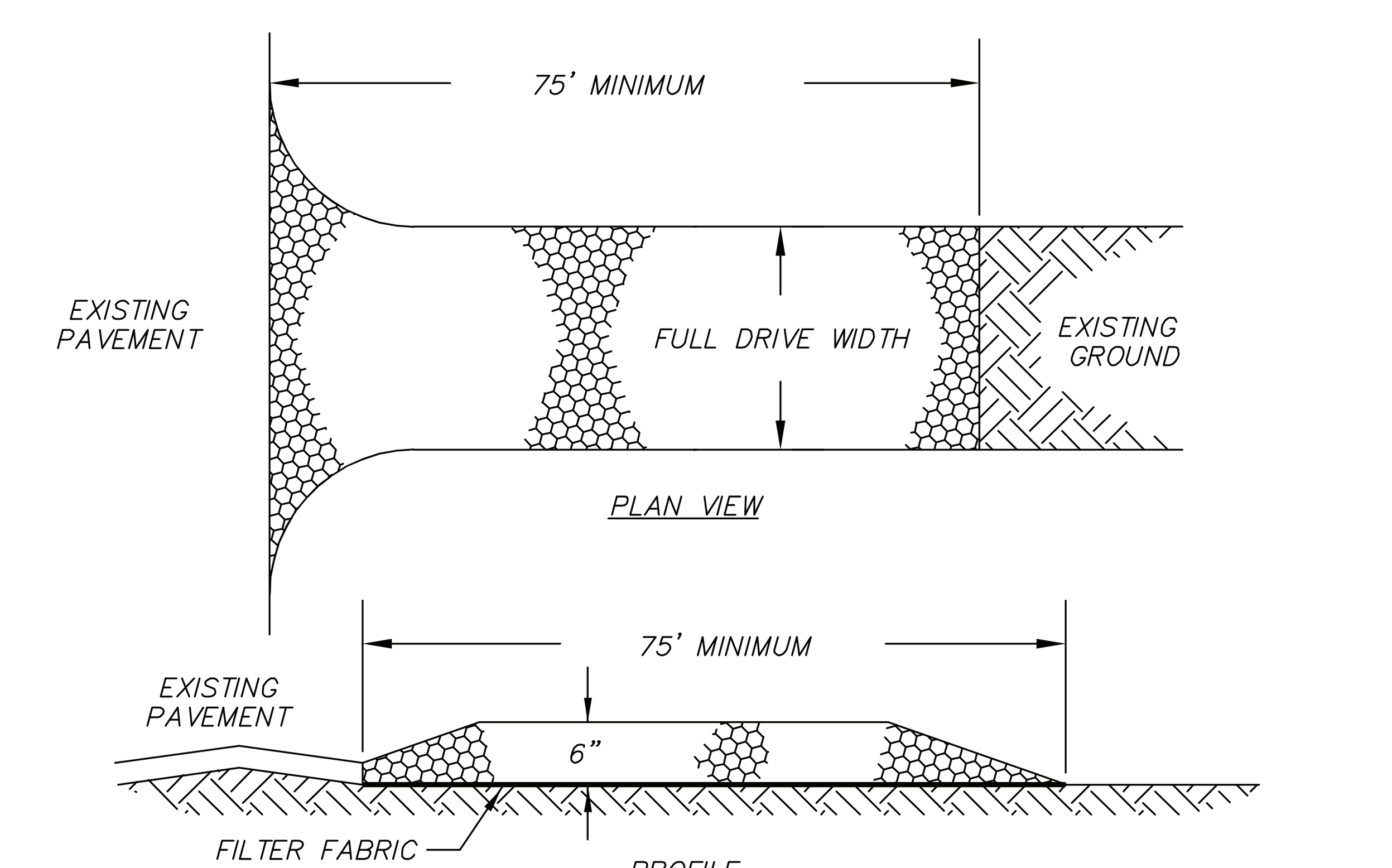
WETLAND BUFFER IMPACT A:	1,306	SF
WETLAND BUFFER IMPACT B:	1,960	SF
WETLAND BUFFER IMPACT C:	1,045	SF
TOTAL WETLAND BUFFER IMPACT:	4,311	SF



Notes:
1. All material to meet Filtrexx specifications
2. SiltSoxx compost/soil/rock/seed fill to meet application requirements.
3. SiltSoxx depicted is for minimum slopes. Greater slopes may require larger socks per the Engineer.
4. Compost material to be dispersed on site, as determined by Engineer.

SILTSOXX DETAILS

NOT TO SCALE



NOTES:

1. *SEE EROSION CONTROL NOTES BELOW FOR MATERIAL, INSTALLATION AND MAINTENANCE REQUIREMENTS.*
2. *TO BE INSTALLED AT EACH POINT OF EGRESS FROM THE WORK AREA.*

STABILIZED CONSTRUCTION ENTRANCE

1. SPECIFICATIONS
   - A. AGGREGATE SIZE: USE THREE (3) INCHES STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
   - B. AGGREGATE THICKNESS: NOT LESS THAN SIX (6) INCHES.
   - C. WIDTH TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH OF POINTS WHERE INGRESS OR EGRESS OCCURS.
   - D. LENGTH: AS REQUIRED, BUT NOT LESS THAN SEVENTY-FIVE (75) FEET. PIPING OF SURFACE WATER UNDER ENTRANCE SHALL BE PROVIDED AS REQUIRED.
   - E. GEOTEXTILE: TO BE PLACED OVER THE ENTIRE AREA TO BE COVERED WITH AGGREGATE.
   - F. CRITERIA FOR GEOTEXTILE: THE FABRICS SHALL BE TREVIA SPUNBOND 1135, MIRAFI 600X OR EQUAL.
2. MAINTENANCE
   THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

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DRAWN BY: CAD
DESIGN BY: CAD
APPROVED BY:SJH
PROJECT NO: 20052A
FILE: SITE

STATE OF NEW HAMPSHIRE · STEPHEN J HAIGHT No. 7978 · LICENSED · PROFESSIONAL ENGINEER

ZELAND SCHWARTZ
14 HUCKINS ROAD
MADBURY, NH 03823

4 LOT RESIDENTIAL SUBDIVISION
14 HUCKINS ROAD
MADBURY, NH 03823

WETLAND BUFFER IMPACT EXHIBIT

DESCRIPTION

1. THE INTENT OF THIS PLAN IS TO SHOW SITE IMPROVEMENTS ASSOCIATED WITH A 3 LOT RESIDENTIAL SUBDIVISION.

PROJECT NAME AND LOCATION

3 LOT RESIDENTIAL SUBDIVISION — LATITUDE N43° 12' 52"
ZELAND SCHAWARTZ REVOCABLE TRUST — LONGITUDE W70° 57' 39"
14 HUCKINS ROAD
MADBURY, NH 03823

SEQUENCE OF MAJOR ACTIVITIES

1. PLACE TEMPORARY EROSION AND SEDIMENT CONTROL BMP'S PRIOR TO EARTH MOVING ACTIVITIES.
2. ALL EROSION CONTROL AND PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO COMMENCING EARTH MOVING OPERATIONS.
3. SELECTIVE DEMOLITION.
4. REGRADE SITE TO SUBGRADE.
5. TEMPORARY WATER DIVERSION (SWALES, BASINS) MUST BE USED AS NECESSARY UNTIL AREAS ARE STABILIZED.
6. SWALES AND PONDS (AS APPLICABLE) SHALL BE CONSTRUCTED EARLY ON IN THE CONSTRUCTION SEQUENCE AND BEFORE ROUGH GRADING OF THE SITE AND ALL DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
7. INSTALL FOUNDATION.
8. INSTALL UNDERGROUND UTILITIES.
9. PLACE GRAVELS AND FINE GRADE.
10. STABILIZE ROADWAYS WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
11. ALL CUT AND FILL SLOPES SHALL BE LOAMED AND SEEDED (AS APPLICABLE) WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
12. IN ALL CASES THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION AND IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.

DEFINITIONS

AN AREA SHALL BE CONSIDERED STABLE OF ONE OF THE FOLLOWING HAS OCCURRED.
1. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED
2. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
3. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED; OR
4. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED

INSTALLATION, MAINTENANCE, AND INSPECTION PROCEDURES OF EROSION AND SEDIMENT CONTROLS

A. SILT BARRIER

1. INSTALLATION
   a. USE SILT BARRIER AS PERIMETER CONTROLS, PARTICULARLY AT THE LOWER OR DOWN SLOPE EDGE OF A DISTURBED AREA.
   b. LEAVE SPACE FOR MAINTENANCE BETWEEN TOE AND SLOPE OF SILT BARRIER.
   c. TRENCH IN THE SILT BARRIER ON THE UPHILL SIDE (6 INCHES DEEP BY 6 INCHES WIDE).
   d. INSTALL STAKES ON THE DOWNHILL SIDE OF THE SILT BARRIER.
   e. CURVE THE END OF THE SILT BARRIER UP-GRADIENT TO HELP IT CONTAIN RUNOFF.
2. SEQUENCE OF INSTALLATION
   a. SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM.
3. MAINTENANCE
   a. SILT BARRIERS SHOULD BE INSPECTED AND MAINTAINED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
   b. SILT BARRIERS HAVE A USEFUL LIFE OF ONE SEASON. ON LONGER CONSTRUCTION PROJECTS, SILT BARRIERS SHOULD BE REPLACED PERIODICALLY TO MAINTAIN EFFECTIVENESS.
   c. REMOVE SEDIMENT WHEN IT REACHES ONE—THIRD (1/3) THE HEIGHT OF THE SILT BARRIER.
   d. REPLACE THE SILT BARRIERS WHERE THEY ARE TORN, WORN, OR OTHERWISED DAMAGED AND MONITOR PERFORMANCE TO ENSURE EFFECTIVE PERFORMANCE.
   e. RETRENCH OR REPLACE ANY SILT BARRIER THAT IS NOT PROPERLY ANCHORED TO THE GROUND.
   f. IF THERE IS EVIDENCE OF END FLOW ON PROPERLY INSTALLED BARRIERS, EXTEND BARRIERS UPHILL OR CONSIDER REPLACING THEM WITH OTHER MEASURES, SUCH AS TEMPORARY DIVERSIONS AND SEDIMENT TRAPS.
   g. SILT BARRIERS SHOULD BE REPAIRED IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES OF THE BARRIER, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SILT BARRIERS SHOULD BE REPLACED WITH A TEMPORARY CHECK DAM.

B. MULCHING

1. TIMING
   a. APPLY MULCH PRIOR TO ANY STORM EVENT. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER PREDICTIONS TO HAVE ADEQUATE WARNING OF SIGNIFICANT STORMS.
   b. IN OTHER AREAS, THE TIME PERIOD CAN RANGE FROM 14 TO 30 DAYS OF INACTIVITY ON A AREA. THE LENGTH OF TIME VARYING WITH SITE CONDITIONS. PROFESSIONAL JUDGEMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS (SOIL ERODIBILITY, SEASON OF YEAR, EXTENT OF DISTURBANCE, PROXIMITY TO SENSITIVE RESOURCES, ETC.) AND THE POTENTIAL IMPACT OF EROSION ON ADJACENT AREAS TO CHOOSE AN APPROPRIATE TIME RESTRICTION.
   c. WITHIN 100 FEET OF RIVERS, STREAMS, WETLANDS, AND IN LAKE AND POND WATERSHEDS, THE TIME PERIOD OF WHICH MULCHING SHOULD TAKE OCCUR SHOULD BE NO GREATER THAN SEVEN (7) DAYS. THIS SEVEN DAY LIMIT SHOULD BE REDUCED FURTHER DURING WET WEATHER PERIODS.
2. APPLICATION RATE
   a. MULCH SHALL BE APPLIED AT A RATE OF BETWEEN 1.5 TO 2 TONS PER ACRE, OR 70 TO 90 POUNDS PER 1000 SQUARE FEET.
   b. GUIDELINES FOR WINTER MULCH APPLICATION. WHEN MULCH IS APPLIED TO PROVIDE PROTECTION OVER WINTER (PAST THE GROWING SEASON) IT SHALL BE AT A RATE OF 150—200 POUNDS OF HAY OR STRAW PER ACRE WITH ABOUT 4 INCHES IN DEPTH. A TACKIFIER MAY BE ADDED TO THE MULCH.
3. MAINTENANCE
   a. ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS. CHECK FOR SIGNS OF EROSION OR DISPLACEMENT OF THE MULCH. IF LESS THAN 90% OF THE SOIL SURFACE IS COVERED BY MULCH, ADDITIONAL MULCH SHALL BE IMMEDIATELY APPLIED.
   b. NETS MUST BE INSPECTED AFTER RAIN EVENTS FOR DISLOCATION OR FAILURE AND SHOULD BE REPAIRED AS NECCESSARY.
   c. INSPECTIONS SHOULD TAKE PLACE UNTIL THE SITE IS ESTABLISHED.
   d. EROSION CONTROL MIX MULCH USED FOR TEMPORARY STABILIZATION SHOULD BE LEFT IN PLACE. VEGETATION ADDS STABILITY AND SHOULD BE PROMOTED.

C. TEMPORARY SEEDING

1. SEEDBED PREPARATION
   a. STONES AND TRASH SHOULD BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.
   b. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
   c. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS.
      i) APPLY FERTILIZER AT A RATE OF 600 POUNDS PER ACRE OR 13.8 POUNDS PER 1,000 SQUARE FEET OF LOW PHOSPHATE FERTILIZER OR EQUIVALENT.
      ii) APPLY LIMESTONE AT A RATE OF 3 TONS PER ACRE OR 138 POUNDS PER 1,000 SQUARE FEET.
2. SEEDING
   a. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SUMMARY INCLUDING SEED AND FERTILIZER) WITH A SEEDING DEPTH FROM A QUARTER (1/4) TO A HALF (1/2) INCH.
   b. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.
   c. TEMPORARY SEEDING BETWEEN MAY 15TH AND AUGUST 15TH SHOULD BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE.
   d. VEGETATED GROWTH COVERING 85% OF THE DISTURBED AREA SHOULD BE ACHIEVED PRIOR TO OCTOBER 15TH.
3. MAINTENANCE
   a. TEMPORARY SEEDING SHALL BE INSPECTED PERIODICALLY. AT A MINIMUM, 85% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER FABRICS, CHECK DAMS, ETC.).

D. PERMANENT SEEDING

1. BEDDING — STONES LARGER THAN 2 INCHES, TRASH, ROOTS, AND OTHER DEBRIS INTERFERRING WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA SHOULD BE REMOVED. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF 4" TO PREPARE A SEEDBED AND MIX FERTILIZER INTO THE SOIL.
2. FERTILIZER
   a. LIME AND FERTILIZER SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 4 INCHES USING A DISC, SPRING TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT PRIOR TO OR AT THE SAME TIME OF SEEDING.
   b. FERTILIZER SHOULD BE RESTRICTED TO A LOW PHOSPHATE, SLOW RELEASE NITORGEN FERTILIZER WHEN APPLIED TO AREAS BETWEEN 25 FEET AND 250 FEET FROM A SURFACE WATER BODY. NO FERTILIZER EXCEPT LIMESTONE SHOULD BE APPLIED WITHIN 25 FEET OF THE SURFACE WATER.
   c. 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 @ 138 LBS. PER 1,000 S.F.
      LOW PHOSPHATE (N-P2O5-K20) FERTILIZER @ 13.8 LBS. PER 1,000 S.F.
3. SEED MIXTURE (RECOMMENDED)
   RATE:

TYPE	LBS. PER ACRE	LBS. PER 1,000 S.F.
TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
BIRDSFOOT TREFOIL	8	0.20
TOTAL	48	1.10

4. SEEDING
   a. SPRING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIXES OR WITH LEGUMES. PERMANENT SEEDING SHOULD BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST.
   b. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER) WITH A SEEDING DEPTH FROM A QUARTER (1/4) TO A HALF (1/2) INCH.
   c. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED SHOULD BE ACHIEVED PRIOR TO OCTOBER 15TH. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT TEMPORARY STABILIZATION MEASURES FOR OVERWINTER PROTECTION.
5. HYDROSEEDING
   a. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF STRAW MULCH ON CRITICAL AREAS IS PREFERRED SINCE IT GRANTS BETTER SLOPE PROTECTION BY USING ADHESIVE MATERIALS.
   b. SLOPES MUST BE NO STEEPER THAN 2 TO 1 (2 FEET HORIZONTALLY TO 1 FOOT VERTICALLY).
   c. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.
6. MAINTENANCE
   a. PERMANENT SEEDED AREAS SHOULD BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTIONS, MAINTENANCE, AND CORRECTIVE ACTIONS SHOULD CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION OF THE SITE.
   b. SEEDED AREAS SHOULD BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION, WITH MOWING HEIGHT AND FREQUENCY DEPENDENT ON TYPE OF GRASS COVER.
   c. BASED ON INSPECTION, AREAS SHOULD BE RESEEDED TO ACHIEVE FULL STABALIZATION OF EXPOSED SOILS.
   d. IF EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHOULD BE MADE AND AREAS RESEEDED. WITH OTHER TEMPORARY MEASURES USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.
   e. AT A MINIMUM, 85% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION.

E. STORM DRAIN INLET PROTECTION

1. SPECIFICATIONS
   a. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE BARRIER SHOULD BE LESS THAN ONE ACRE.
   b. ANY RESULTANT PONDING OF STORMWATER MUST NOT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT AREAS OR STRUCTURES.
2. INSTALLATION
   a. INSTALL INLET PROTECTION AS SOON AS STORM DRAIN INLETS ARE INSTALLED AND BEFORE LAND-DISTURBANCE ACTIVITIES BEGIN IN AREAS WITH EXISTING STORM DRAIN SYSTEMS.
   b. PROTECT ALL INLETS THAT COULD RECEIVE STORMWATER FROM YOUR CONSTRUCTION PROJECT.
   c. USE IN CONJUNCTION WITH OTHER EROSION PREVENTION AND SEDIMENT CONTROL BMPS.
   d. DESIGN YOUR INLET PROTECTION TO HANDLE THE VOLUME OF WATER FROM THE AREA BEING DRAINED. ENSURE THAT THE DESIGN IS SIZED APPROPRIATELY.
3. MAINTENANCE
   a. INSPECT INLETS BARRIERS FREQUENTLY, BEFORE AND AFTER EACH RAINFALL EVENT AND REPAIR WHEN NECESSARY.
   b. SEDIMENT SHOULD BE REMOVED AND THE STORM DRAIN SEDIMENT BARRIER RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE BARRIER.
   c. REMOVED SEDIMENT SHOULD BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
   d. SWEEP STREETS, SIDEWALKS, AND OTHER PAVED AREAS REGULARLY.
   e. ALL CATCH BASINS AND STORM DRAIN INLETS MUST BE CLEANED AT THE END OF CONSTRUCTION AND AFTER THE SITE HAS BEEN FULLY STABILIZED

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES THE SILT BARRIERS SHALL BE INSTALLED PRIOR TO COMMENCING ANY CLEARING OR GRADING OF THE SITE. STRUCTURAL CONTROLS SHALL BE INSTALLED CONCURRENTLY WITH THE APPLICABLE ACTIVITY. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN TWENTY ONE (21) DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN FOURTEEN (14) DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, SILT FENCES AND ANY EARTH/DIKES WILL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED. ALL AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.

WASTE DISPOSAL

a. WASTE MATERIALS
   ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN A DUMPSTER. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ON SITE. ALL PERSONEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
b. HAZARDOUS WASTE
   ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
c. SANITARY WASTE
   ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

MAINTENACE OF STORMWATER MANAGEMENT FACILITIES

THE PROJECT PROPONENT IS RESPONSIBLE FOR THE MAINTENANCE OF ALL STORMWATER FACILITIES DURING CONSTRUCTION AND THE PORPERTY OWNER IS RESPONSIBLE AFTER CONSTRUCTION IS COMPLETE.

CATCH BASINS & STORMWATER TREATMENT STRUCTURES (IF APPLICABLE)

1. CATCH BASINS & STORMWATER TREATMENT STRUCTURES SHOULD BE INSPECTED ON A MONTHLY BASIS AND/OR AFTER A MAJOR RAINFALL EVENT TO ASSURE THAT DEBRIS OR SEDIMENTS DO NOT REDUCE THE EFFECTIVENESS OF THE SYSTEM.

SPILL PREVENTION

A. MATERIAL MANAGEMENT PRACTICES
   THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL SANITARY EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:
   GOOD HOUSEKEEPING:
   THE FOLLOWING GOOD HOUSEKEEPING PRACTICES THAT WILL BE FOLLOWED ON SITE DURING
   1. THE CONSTRUCTION PROJECT:
      a. AN EFFORT WILL BE MADE TO STORE ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB.
      b. ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
      c. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
      d. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.
      e. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
      f. WHENEVER POSSIBLE ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
   2. HAZARDOUS PRODUCTS:
      a. THE FOLLOWING PRACTICES WILL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
      b. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
      c. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION.
      d. SURPLUS PRODUCT THAT MUST BE DISPOSED OF WILL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.

B. PRODUCT SPECIFICATION PRACTICES
   THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON SITE:
   1. PETROLEUM PRODUCTS:
      a. ALL ON SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENACE TO REDUCE LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
   2. FERTILIZERS:
      a. FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
   3. PAINTS:
      a. ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE DISPOSED OF PROPERLY ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
   4. CONCRETE TRUCKS:
      a. CONCRETE TRUCKS WILL DISCHARGE AND WASH OUT SURPLUS CONCRETE OR DRUM WASH WATER IN A CONTAINED AREA ON SITE.

C. SPILL CONTROL PRACTICES
   IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
   a. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
   b. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
   c. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
   d. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
   e. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OF LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
   f. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM RECURRING AND HOW TO CLEANUP THE SPILL IF IT OCCURS. A DESCRIPTION OF THE SPILL, ITS CAUSE, AND THE CLEANUP MEASURES WILL BE INCLUDED.
   g. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.

THE PROJECT PROPONENT IS REQUIRED TO MANAGE CONSTRUCTION TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO CONTROLLING INVASIVE SPECIES AND CONTROLLING FUGITIVE DUST IN ACCORDANCE WITH ENV-A 1002.

AGR 3800 PROHIBITED INVASIVE PLANT SPECIES RULES

THE RULE, AGR 3800, STATES: 'NO PERSON SHALL COLLECT, TRANSPORT, IMPORT, EXPORT, MOVE, BUY SELL, DISTRIBUTE, PROPAGATE OR TRANSPLANT ANY LIVING AND VIABLE PORTION OF ANY PLANT SPECIES, WHICH INCLUDED ALL OF THEIR CULTIVARS AND VARIETIES, LISTED IN TABLE 3800.1, NEW HAMPSHIRE PROHIBITED INVASIVE SPECIES LIST'. A COMPLETE COPY OF THE RULES CAN BE ACCESSED ON THE INTERNET AT HTTP://AGRICULTURE.NH.GOV/TOPICS/PLANTS_INSECTS.HTM.

ENV-A 1002 FUGITIVE DUST: PRECAUTIONS TO PREVENT, ABATE, AND CONTROL FUGITIVE DUST.

a. ANY PERSON ENGAGED IN ANY ACTIVITY WITHIN THE STATE EMITS FUGITIVE DUST, OTHER THAT THOSE LISTED IN ENV-A 1002.02 (b), SHALL TAKE PRECAUTIONS THROUGHOUT THE DURATION OF THE ACTIVITY IN ORDER TO PREVENT, ABATE, AND CONTROL THE EMISSION OF FUGITIVE DUST.
b. PRECAUTIONS REQUIRED BY (a) ABOVE, SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   i) THE USE OF WATER OR HYDROPHILIC MATERIAL ON OPERATIONS OR SURFACES, OR BOTH;
   ii) THE APPLICATION OF ASPHALT, WATER, OR HYDROPHILIC MATERIAL, OR TARPS OR OTHER SUCH COVERS TO MATERIAL STOCKPILES;
   iii) THE USE OF HOODS, FANS, FABRIC FILTERS, OR OTHER DEVICES TO ENCLOSE AND VENT AREAS WHERE MATERIALS PRONE TO PRODUCING FUGITIVE DUST ARE HANDLED;
   iv) THE USE OF CONTAINMENT METHODS FOR SANDBLASTING OR SIMILAR OPERATIONS; AND
   v) THE USE OF VACUUMS OR OTHER SUCTION DEVICES TO COLLECT AIRBORNE PARTICULATE MATTER.

WINTER CONSTRUCTION NOTES

1. ALL PROPOSED POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT.
2. ALL SLOPES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS.
3. AFTER OCTOBER 15TH, INCOMPLETE ROAD SURFACES SHALL BE PROTECTED WITH A MINIMUM OF 3-INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 403.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT.

WILDLIFE PROTECTION NOTES:

1. THE PROJECT WILL AVOID THE USE OF WELDED PLASTIC OR BIODEGRADABLE PLASTIC NETTING OR THREAD (E.G. POLYPROPYLENE) IN EROSION CONTROL MATTING, IF NEEDED, TO PREVENT WILDLIFE ENTRAPMENT. THE PROJECT WILL USE EROSION CONTROL BERMS, PE TREXX DEGRADABLE WOVEN SILT SOXX, WILDLIFE FRIENDLY OPTIONS SUCH AS WOVEN ORGANIC MATERIAL (E.G. COCO OR JUTE MATTING SUCH AS NORTH AMERICAN GREEN SC150BN OR EQUIVALENT, OR SIMILAR.
2. IF SPOTTED, WOOD OR BLANDING'S TURTLES ARE FOUND LAYING EGGS IN A WORK AREA, PLEASE CONTACT MELISSA WINTERS (603) 479-1129 (CELL) OR JOSH MEGYESY (978) 578-0802 (CELL) FOR FURTHER INSTRUCTIONS.

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

NO.	REVISION	APP'D	DATE
3	PER PB COMMENTS	SJH	9-28-22
2	PER PB COMMENTS	SJH	8-29-22
1	PER PB COMMENTS	SJH	7-20-22

DATE: 5-3-22
SCALE: AS SHOWN
DRAWN BY: CAD
DESIGN BY: CAD
APPROVED BY: SJH
PROJECT NO: 20052A
FILE: SITE

CIVILWORKS NEW ENGLAND
CIVIL & WATERFRONT ENGINEERING
181 Watson Road, PO Box 1166
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STATE OF NEW HAMPSHIRE — STEPHEN HAIGHT No. 7076 — LICENSED PROFESSIONAL ENGINEER

EROSION CONTROL NOTES

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