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PROP CONSERVATION SIGN SEE NHESP GUIDANCE	PROP CONSERVATION BOUND 6"X6"X36" CONC.BOUND SEE NHESP GUIDANCE FOR SPECS	TREE LINE	PROPOSED BUILDING/HOUSE	PROPOSED SPOT ELEVATION	POPOS	PROP. CONTOUR (INTERMEDIATE)	PROPOSED CONTOUR (INDEX)	PROPOSED UNPAVED ROAD	PROPOSED EDGE OF PAVEMENT	PRO. U/G ELEC, CABLE & IEL	PROPOSED UNDER DRAIN	PROPOSED ROOF DRAIN	PROPOSED SANITARY SEWER	PROPOSED WATER LINE	CONC. BLOCK RETAINING WALL	STRAW BALES	PROPERTY LINE	REPLICATED WETLANDS			EXISTING BUILDING/HOUSE	EXISTING SPOT ELEVATION	EX. CONTOUR (INTERMEDIATE)	EXISTING CONTOUR (INDEX)	EXISTING UNPAVED ROAD	EXISTING OVER-HEAD WIRES	EXISTING TELEPHONE LINE	EXISTING STORM DRAIN	EXISTING ELECTRICAL LINE	STONE WALL	GUARD RAIL	EASEMENT LINE	PROPERTY LINE	WELL RADIUS	WETLANDS	LAKES/PONDS/SURFACE WATER	LIMIT OF RIVERFRONT AREA		DESCRIPTION E
		<u>,</u>	<u>ĕ</u> □	ا <u>چ</u>) Fr		\odot	•	•		A 2	S	<u>-</u>			()		0	PROP. OIM.	0	0	X		□SB(t)	• IR(t)	⊕ DH(f)	© <i>IP(f)</i>		TP 1105-1		νą	E		MAIL AND	•	6 ((- cc		EXIST. SYM.
	PROPOSED FIELDSTONE HEADWALL	The Cold more of the	PROPOSED OUTLET CONTROL STRUCTURE.	SHE	LATINGALITY WITH	ENERGREEN TREE	DECIDUOUS TREE	PROPOSED IRON ROD PER SUBDIVISION REGS	PER SUBDIVISION REGS	PROPOSED RIPRAP	PROPOSED FLARED END SECTION	PROPOSED SIGN	PROPOSED ELECTRICAL TRANSFORMER	PROPOSED DOUBLE CATCH BASIN	PROPOSED CATCH BASIN	PROPOSED STORM WATER MANHOLE	PROPOSED SANITARY MANHOLE	PROPOSED UIILIT POLE	DESCRIPTION	EXISTING CIFANOLIT	SHRUB	CONIFER TREE	DECIDUOUS TREE	EXISTING STONE BOUND	EXISTING IRON ROD	EXISTING DRILL HOLE	EXISTING IRON PIPE	וצאו אוו		PERC TEST	EXISTING SIGN	EXISTING ELECTRICAL METER	EXISTING CATCH BASIN	EXISTING WETLAND FLAG	EXISTING WELL	EX. STORM WATER MANHOLE	EXISTING GILY MIRE	EXISTING UTILITY POLE	DESCRIPTION

DRIVEWAYS:

GENERAL NOTE

LEGEND

- 1. TOPOGRAPHIC INFORMATION SHOWN ON THIS PLAN IS BASED ON AN ON-THE-GROUND SURVEY PERFORMED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC.. ELEVATIONS REFER TO NAVD 1988.

 2. PROPERTY LINES ARE THE RESULT OF AN ON-THE-GROUND SURVEY AND 1988.

 2. PROPERTY LINES ARE THE RESULT OF AN ON-THE-GROUND SURVEY AND 1988.

 2. ROSS ASSOCIATES, INC. ENTITLED "LAND IN STOW, MASS. SURVEYED FOR THE CO-OPERATIVE BANK OF CONCORD, SCALE 1"=100", DATED NOVEMBER, 1994.

 3. ABUTTER PROPERTY LINES AND NAMES ARE COMPILED FROM STOW, BOLTON AND HUDSON TOWN TAX RECORDS AND ARE APPROXIMATE

 4. ALL SOIL TESTING LOCATIONS ARE BASED ON TESTS PERFORMED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC. IN 2013 AND ADDITIONAL TESTING DONE PREVIOUSLY BY OTHERS. TEST RESULTS ARE ON FILE AT THE STOW BOARD OF HEALTH.

 5. WETLANDS SHOWN ON THESE PLANS REFER TO AN ORDER OF RESOURCE AREA DELINEATION PREPARED BY STAMSKI AND MCNARY ON FILE WITH THE STOW CONSERVATION COMMISSION.

 6. THE PROJECT FALLS OUTSIDE ANY SPECIAL FLOOD ZONE AS SHOWN ON THE LATEST FLOOD INSURANCE RATE MAP FOR THE TOWN OF STOW DATED.

 7. EXISTING UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND SHOULD NOT BE ASSUMED TO BE CORRECT NOR SHOULD IT BE ASSUMED THAT THE UTILITIES SHOWN ARE THE ONLY UTILITIES LOCATED ON OR NEAR THE SITE. THE SOUNTERACTOR SHALL CALL DIG SAFE 1-888-DIG-SAFE PRIOR TO CONSTRUCTION IN ACCORDANCE WITH STATE LAWS.

PROFESS

RESERVED FOR REGISTRY

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DS OF THE

GRADING NOTES/SPECIFICATIONS:

- A. SITE PREPARATION:

 1. CONTRACTOR TO PLACE EROSION CONTROL BARRIER AS SPECIFIED ON THESE PLANS AND IN ACCORDANCE WITH ALL APPROVALS FROM THE TOWN OF STOW AND IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN.

 2. CONTRACTOR SHALL STAKE ALL LIMITS OF CLEARING PRIOR TO CONSTRUCTION.

 3. REMOVE TREES WITHIN THE LIMIT OF CLEARING AS REQUIRED FOR CONSTRUCTION. TREES WITHIN THE LIMIT OF CLEARING AND PROSSIBLE.

 4. STUMPS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH SECTION A OF THE EROSION CONTROL SPECIFICATIONS.

 5. REMOVE AND STOCKPILE ALL TOPSOIL FROM UNDER ALL PROPOSED DRIVEWAYS TO WITHIN A 1 ON 1 INFLUENCE, AND STRUCTURES.

 6. REMOVE SUBSOIL FROM UNDER ALL DRIVEWAYS TO WITHIN A 1 ON 1 INFLUENCE, STORMWATER INFILTRATION AREAS AND STRUCTURES.

 7. THERE SHALL BE NO STOCKPILING ALLOWED WITHIN THE 100-FOOT BUFFER ZONE TO BORDERING VEGETATED WETLANDS.
- DRIVEWAY REGULATIONS.

 2. DRIVEWAYS SERVING SINGLE FAMILY PROPERTY SHALL BE 12' IN WIDTH WITH 2 FOOT SHOULDERS AND SHALL BE PAVED WITH 3" ASPHALT COMPACTED IN PLACE IN TWO LIFTS OVER 6" THICK GRAVEL IN ACCORDANCE WITH SSHB M1.03.0, TYPE B COMPACTED TO 95% PROCTOR DENSITY.

 3. DRIVEWAYS TO HAVE A MINIMUM SLOPE OF 0.75% AND A MAXIMUM SLOPE OF 12%.

 4. DRIVEWAY EMBANKMENTS TO BE NO STEEPER THAN 3:1 IN FILL AND 2:1 IN CUT.

 5. DRIVEWAYS TO BE CONSTRUCTED IN THE LOCATIONS SHOWN. MODIFICATIONS TO DRIVEWAYS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

 6. SHARED DRIVEWAYS SHALL BE 12' IN WIDTH WITH 2' SHOULDERS TO THE POINT WHERE SINGLE DRIVEWAYS DIVERGE. SHARED DRIVEWAYS SHALL BE 3" THICK ASPHALT PAVEMENT COMPACTED IN PLACE IN TWO LIFTS, OVER 3" THICK GRAVEL COURSE IN ACCORDANCE WITH SSHB M1.02.0, TYPE B COMPACTED TO 95% PROCTOR DENSITY, OVER 6" THICK GRAVEL COURSE IN ACCORDANCE WITH SSHB M1.02.0, TYPE B COMPACTED TO 95% PROCTOR DENSITY.

 8. SHARED DRIVEWAYS SHALL HAVE A MINIMUM SLOPE OF 0.75% AND A MAXIMUM SLOPE OF 12%. BE CONSTRUCTED IN ACCORDANCE JLATIONS. IVEWAY REGULATIONS AND SHAF
- DRAINAGE:
- ORMWATER MANAGEMENT AREAS TO BE CONSTRUCTED IN THE LOCATION SHOWN ON THE PLANS.
 OVIDE UNDERGROUND ROOFTOP INFILTRATION SYSTEM FOR EACH NEW STRUCTURE AS SHOWN. REFER TO THE CONSTRUCTION DETAILS.
 TAIL SHEET FOR CONSTRUCTION DETAILS.
 ONE RIPRAP SHALL BE 4-8-INCH ANGULAR RIPRAP PLACED OVER FILTER FABRIC.
 L SWALES TO BE RESTORED WITH 4" TOPSOIL, SEED, FERTILIZER AND STAKED DOWN STRAW MATTING.
 WALES TO BE FITTED WITH STONE CHECK DAMS AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE DIRECT.

SOIL TEST DATA

NAME OF SOIL EVALUATOR:
PETER M. SHERDAN

TEST HOLE NO. C-15-1
DATE OF TEST: 8/27/07
SURFACE ELEV.: 329.7

DEPTH OF GROUNDWATER:
DEPTH OF ESHGW: 50"
ELEVATION OF ESHGW: 32

325.5

TEST HOLE NO. C-15-2
DATE OF TEST: 8/27/07
SURFACE ELEV.: 328.6

DEPTH: SOIL MATRIX
(IN.) HOR. COLOR: 0-4" OA 10YR 3/3
4-12" Bw 2.5Y 6/6
12-96" C 2.5Y 6/4

REDOX FEATURES: DEPTH/COLOR/% -50" 7.5YR 5/8

SOIL SL SL SL SL SL SL

DEPTH OF GROUNDWATER: ___ DEPTH OF ESHGW: _50" ELEVATION OF ESHGW: _324.4

NAME OF APPROVING AUTHORITY: STOW BOARD OF HEALTH JACK WALLACE, R.S. (AGENT)

7.5YR 5/8 5Y 7/2

SOL BANKSOL

REDOX FEATURES: DEPTH/COLOR/%

MATRIX COLOR: 10YR 3/3 2.5Y 6/6 2.5Y 6/4

REDOX FEATURES: DEPTH/COLOR/%

7.5YR 5/8 5Y 7/2

7.5YR 5/8

SY 7/2

DEPTH OF GROUNDWATER: —
DEPTH OF ESHGW: 52"
ELEVATION OF ESHGW: 325.5

UTILITY NOTES/SPECIFICATIONS:

OWNER:

ALICE A. CUSHING P.O. BOX 418 STOW, MA 01775

APPLICANT: ALICE A. CUSHING P.O. BOX 418 STOW, MA 01775

BOOK/PAGE: BOOK 25093, PAGE 356

MAP/PARCEL:
MAP R-1, PARCEL

- IRON WORKS MODEL 2110 WITH
- DRAINAGE STRUCTURES:

 MANHOLES TO BE 4'0 PRECAST CONCRETE AS SHOWN ON THE GRADING PLANS.

 MANHOLE FRAMES & COVERS SHALL BE AS MANUFACTURED BY EAST JORDAN I
 "DRAIN" IN 3" LETTERING.

 CATCH BASIN FRAMES & GRATES TO BE AS MANUFACTURED BY EAST JORDAN
 CONTRACTOR TO SET ALL DRAIN MANHOLE COVERS TO FINAL FINISHED GRADE ,
 UNDERGROUND STORMWATER MANAGEMENT AREAS SHALL BE ADS STORMTECH F
 EQUAL. SEE DETAILS SHEETS. PROVIDE CUT SHEETS TO ENGINEER FOR APPRO AN IRON WORKS MODEL 5520M/5546Z. E AS SHOWN ON THE GRADING PLAN. H RC-310 PRODUCT, OR APPROVED
- ELECTRICAL, TELEPHONE/CABLE:
- UTILITY CONNECTIONS TO THE PROPOSED LOTS SHALL BE UNDERGROUND SERVICE CONNECTIONS IN COMPLIANCE WITH THE APPLICABLE UTILITY COMPANIES SPECIFICATIONS.

 CONTRACTOR TO COORDINATE WITH APPROPRIATE UTILITY COMPANIES FOR THE CONSTRUCTION OF THE CONDUIT FOR UNDERGROUND UTILITIES.

 CONTRACTOR TO FACILITATE THE RELOCATION OF THE EXISTING UTILITY POLE(S) AS SHOWN ON THE PLAN FOR CONNECTION OF UNDERGROUND UTILITIES FOR THE PROJECT AS IS DETERMINED TO BE REQUIRED BY THE UTILITY
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS FOR THE INSTALLATION OF UTILITIES.
 CONTRACTOR TO COMPLY WITH ALL SPECIFICATIONS AND REQUIREMENTS OF THE INDIVIDUAL UTILITY COMPANY.

- PIPE:
 ALL DRAINAGE PIPE TO BE HDPE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEM, INC., OR APPROVED EQUAL ALL CONDUIT FOR UTILITIES TO BE AS SPECIFIED BY THE APPROPRIATE UTILITY COMPANY.
 BACKFILL SHALL BE AS SHOWN ON THE PIPE IN TRENCH DETAIL ON SHEET 16 OF 16.
- FIRE PROTECTION:

 CONTRACTOR TO CONSTRUCT A FIRE CISTERN AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE TOWN OF STOW SPECIFICATIONS AND REQUIREMENTS FOR FIRE PROTECTION CISTERNS, DATED NOVEMBER 2000.

 CISTERN SHALL BE AS MANUFACTURED BY LAMARRE PRECAST AND SHALL HAVE AN EFFECTIVE LIQUID HOLDING CAPACITY OF 30,000 GAL.

 CONTRACTOR SHALL PROVIDE ALL CONNECTIONS AND TANK APPURTENANCES AS REQUIRED BY THE FIRE DEPARTMENT.

 CONTRACTOR TO COORDINATE ALL WORK WITH THE FIRE DEPARTMENT AND FACILITATE ALL REQUIRED INSPECTIONS
- TO COORDINATE ALL WORK WITH THE FIRE DEPARTMENT AND FACILITATE ALL REQUIRED BY THE FIRE DEPARTMENT.

6/18/14

4812

DRAWING NO. 4812-TITLE

& DILLIS CIVIL

	APPROVAL REQUIRED UNDER THE SUBDIVISION CONTROL LAW
ALL _AN.	
D	
EAS	BEING A MAJORITY OF THE STOW PLANNING BOARD
RFD	
2 m (DATE ENDORSED:
VED .	APPROVED SUBJECT TO CONDITIONS SET FORTH IN A COVENANT EXECUTED BY AND TO BE RECORDED HEREWITH
ERGE.	NO BUILDING OR STRUCTURE SHALL BE BUILT OR PLACED ON ANY LOT WITHOUT A PERMIT FROM THE BOARD OF HEALTH
	HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE TWENTY (20) DAYS NEXT AFTER RECEIPT AND RECORDING OF SAID NOTICE.
	STOW TOWN CLERK DATE
ETAIL	ZONING CLASSIFICATION: RESIDENTIAL (RES)
	HAMMERHEAD LOTS: FRONTAGE = 50' LOT AREA = 180,000 SQ. FT. SIDE = 45' OPEN SPACE (MIN.) = 10% FLOOR AREA RATIO = NR SETBACKS: FRONT = 50' SIDE = 45' REAR = 40' LOT SHAPE (MIN.) = 0.25
	CONVENTIONAL LOTS: FRONTAGE = 200' FRONTAGE = 200' LOT AREA = 65,340 SQ. FT. OPEN SPACE (MIN.) = 10% FLOOR AREA RATIO = NR SETBACKS: FRONT = 30' SIDE = 25' REAR = 40' REAR = 40' LOT SHAPE (MIN.) = 0.40

SPRING HILL ESTATES
DEFINITIVE SUBDIVISION DEVELOPMENT
STOW, MASSACHUSETTS
LEGEND, NOTES AND SPECIFICATIONS ESCRIPTION

BY

PREPARED BY:]) J う

DRAWING NO.
GSR/SRD
CHECKED BY:
PHONE: (978) 779-6091 FAX: (978) 779-026 www.DucharmeandDillis.co
CIVIL ENGINEERS. LAND SURVEYORS. WETLAND CONSULTANTS
Civil Design Group