

- PLAN NOTES**
- THE PROPERTY LINES AND EXISTING CONDITIONS SHOWN HEREON ARE THE RESULT OF AN ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY LIGHTHOUSE SURVEYING LLC ON JANUARY 8, 2021.
 - SURVEY TRAVERSE POINTS 1, 3 AND 6 WERE OBSERVED WITH A CARLSON BRX6+ GPS RECEIVER USING THE MASSDOT MGCORS RTK NETWORK.
 - HORIZONTAL DATUM: MASSACHUSETTS STATE PLANE - MAINLAND ZONE NAD83 (2011) EPOCH 2010.00 - US FEET
 - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 128) - US FEET
 - ALL ON-THE-GROUND OBSERVATIONS WERE PERFORMED USING LEICA TS12 (3") ROBOTIC TOTAL STATIONS.
 - THE LEGAL STATUS OF THE STREETS AND/OR WAYS SHOWN HEREON, WHETHER THEY ARE PUBLIC OR PRIVATE, WAS NOT MADE PART OF THIS SURVEY.
 - THE LIMIT OF THE POND SHOWN HEREON IS THAT OF RECORD WITH THE USGS AND PROMULGATED BY MASSGIS. SOURCE: MASSGIS (BUREAU OF GEOGRAPHIC INFORMATION), COMMONWEALTH OF MASSACHUSETTS EOTSS.
 - ALL FLOWERING PLANTS, SHRUBS, OR TREES MAY NOT BE SHOWN WITHIN LANDSCAPING AREAS. IT IS MEANT FOR ILLUSTRATIVE PURPOSES ONLY AND NOT MEANT AS A COMPLETE INVENTORY OF ALL VEGETATION THAT MAY EXIST. SIZES REFLECT APPROXIMATE TRUNK DIAMETER AT BREAST HEIGHT OR APPROXIMATE DIAMETER OF SHRUB WIDTH.
 - THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND ARE NOT WARRANTED TO BE CORRECT. UNDERGROUND UTILITIES ARE SHOWN BASED ON EITHER RECORD DATA PROVIDED BY THE OPERATING AUTHORITIES, VISUAL INSPECTION OF AVAILABLE ABOVEGROUND STRUCTURES, PHYSICAL SURFACE MARKINGS FOUND, OR DATA PROVIDED BY OTHERS. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED FOR SERVICE, SIZE, INVERT ELEVATION, LOCATIONS, ETC. PRIOR TO NEW CONNECTIONS TO OR RELOCATION OF SAME. CONTRACTOR MUST NOTIFY DIG-SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION.
 - THE SUBJECT PROPERTY FALLS IN ZONE X, "OTHER AREAS" - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS THE SUBJECT PROPERTY IS PLOTTED BY SCALE ONTO THE FLOOD INSURANCE RATE MAP FOUND AS:
COUNTY: MIDDLESEX COUNTY
COMMUNITY: STOW
MAP NUMBER: 2501700361F
EFFECTIVE DATE: JULY 7, 2014
 - NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC MECHANICAL, PHOTOCOPYING, RECORDING OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF ENGINEERING DESIGN CONSULTANTS, INC. ANY MODIFICATIONS TO THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF ENGINEERING DESIGN CONSULTANTS, INC. SHALL RENDER THE DOCUMENT INVALID AND UNUSABLE.
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- CONSTRUCTION NOTES**
- THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS FROM THOSE SHOWN ON THESE PLANS. ANY PROPOSED REVISIONS TO THE WORK, IF REQUIRED BY THESE SITE CONDITIONS, SHALL NOT BE UNDERTAKEN UNTIL REVIEWED BY THE OWNER AND THE ENGINEER.
 - THE CONTRACTOR SHALL NOTIFY THE RELEVANT TOWN DEPARTMENTS AT LEAST 48 HOURS IN ADVANCE OF ANY REQUIRED INSPECTIONS.
 - IN ORDER TO PROTECT THE PUBLIC SAFETY DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING AT ALL TIMES NECESSARY SAFETY DEVICES AND PERSONNEL, WARNING LIGHTS, BARRICADES, AND POLICE DETAILS.
 - THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE EROSION CONTROL MEASURES ON AN AS NECESSARY BASIS, SUCH THAT EXCESSIVE SOIL EROSION DOES NOT OCCUR. MEASURES SHALL INCLUDE BALE DICES ALONG THE PERIMETER OF CUTS AND FILLS, MULCHING, AND PLANTING OF DISTURBED AREAS AS SOON AS PRACTICABLE.
 - AT THE END OF CONSTRUCTION THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED.
 - AT THE END OF CONSTRUCTION, AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE CONTRACTOR SHALL CLEAN THE SUMPS OF ALL CATCH BASINS AND THE INVERTS OF ALL DRAINS.
 - THE CONTRACTOR IS TO VERIFY THE LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO, CROSSING OR EXTENDING THEM. IF THE PROPOSED WORK POSSES A CONFLICT WITH THE EXISTING UTILITIES, THE ENGINEER IS TO BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.
 - ALL PVC SANITARY SEWER IS TO BE SDR 35 WITH RUBBER RING JOINTS. ALL PVC STORM DRAIN (PERFORATED OR SOLID) SHALL BE SDR 35, ADS TYPE H12 POLYETHYLENE PIPE OR APPROVED EQUIVALENT EXCEPT FOR ROOF DRAINS WHICH SHALL BE DUCTILE IRON. WATER MAIN IS TO BE CLASS 52 CEMENT LINED DUCTILE IRON.
 - THE TOWN OF STOW DEPARTMENT OF PUBLIC WORKS IS TO BE NOTIFIED PRIOR TO THE START OF WORK ON GREAT ROAD.
 - STANDARD PAVEMENT AREAS SHALL HAVE 12 INCHES OF GOOD, CLEAN BANK-RUN GRAVEL, CONFORMING TO MDPW M1.03.1, WITH NO STONES LARGER THAN 3" IN DIAMETER AND SHALL BE PLACED AND ROLLED WITH AT LEAST A TEN TON ROLLER. THE SURFACES SHALL BE WET DURING ROLLING TO BIND THE MATERIAL. ALL STONES OF 4" DIAMETER OR LARGER SHALL BE REMOVED FROM THE SUB-BASE PRIOR TO PLACING BASE MATERIAL.
 - STANDARD PAVEMENT AREAS SHALL BE PAVED TO A THICKNESS OF 3" MEASURED AFTER COMPACTION, WITH A 1-1/2" BINDER COURSE AND 1-1/2" TOP COURSE OF CLASS 1 BITUMINOUS CONCRETE PAVEMENT, TYPE 1-1.
 - THE AGGREGATE SHALL BE COMPOSED, MIXED AND LAID HOT IN TWO COURSES AS SPECIFIED IN THE COMMONWEALTH OF MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES 1988 EDITION, SECTION 460 FOR CLASS 1 BITUMINOUS CONCRETE PAVEMENT, AS SPECIFICALLY SET FORTH IN SECTION 460.20 AND 460.21.
 - ANY EXISTING PAVEMENT REMOVED FOR UTILITY TRENCH EXCAVATION OUTSIDE "LIMIT OF WORK" AREAS OR OTHERWISE DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED WITH A FULL DEPTH OF PAVEMENT SECTION AS SHOWN ON THE TRENCH PATCHING DETAIL INDICATED HEREON.
 - EROSION CONTROL GRASS MIXTURE (SIDE SLOPE GREATER THAN 4 HORIZONTAL TO 1 VERTICAL) FOLLOWING COMPLETION OF GRADING. THE FOLLOWING SEED MIX SHALL BE APPLIED:

TYPE OF SEED	% BY WEIGHT
CREeping RED FESCUE	30
TALL FESCUE	30
WHITE DUTCH CLOVER	30
RED TOP	10

SEED AT THE RATE OF 2#/2,000 S.F. USE THE ABOVE MIX AT THE RATE OF 50#/ACRE AND WITH 1/2 BUSH/ACRE OF WINTER RYE
 - ALL DISTURBED AREAS ARE TO BE LOAMED AND SEEDING WITH A MINIMUM OF 4" OF TOP SOIL SPREAD EVENLY THROUGHOUT. PROVIDE EROSION CONTROL MEASURES AS NECESSARY TO PROVIDE SLOPE STABILITY UNTIL VEGETATION IS ESTABLISHED.
 - ALL STUMPS, TOP SOIL, SUB SOIL AND OTHER DELETERIOUS MATERIALS ARE TO BE REMOVED FROM THE PROPOSED BUILDING AND PAVING AREAS.

NOI - LAND DISTURBANCE TABLE

	35 FT BUFFER		100 FT BUFFER	
	EXISTING	PROPOSED	EXISTING	PROPOSED
WOODED OPEN SPACE	7,000	7,000	4,300	4,300
OPEN SPACE	300	300	7,580	7,370
IMPERVIOUS SURFACES	0	0	2,300	1,950
BUILDINGS & STRUCTURES	0	0	420	980
SUM (Σ)	7,300	7,300	14,600	14,600

EARTHWORK TABLE

CUT	85± C.Y.
FILL	25± C.Y.
NET CUT	60± C.Y.

PROPERTY REFERENCE TABLE

CURRENT OWNER OF RECORD:	NICHOLAS J. MAUCH
OWNER ADDRESS:	220 GREAT ROAD STOW MASSACHUSETTS 01775
ASSESSORS PARCEL ID:	277 / 29.0-0000-0001.0
DEED REFERENCE:	DEED BK 73669 PAGE 308
PLAN REFERENCE:	PLAN 726 OF 2000 PLAN 1052 OF 1965 PLAN 378 OF 1961 PLAN 1093 OF 1950 PLAN 1641 OF 1947 PB 223 PL 3 1949 COUNTY LAYOUT BRADLEY LANE 1928 COUNTY LAYOUT GREAT ROAD

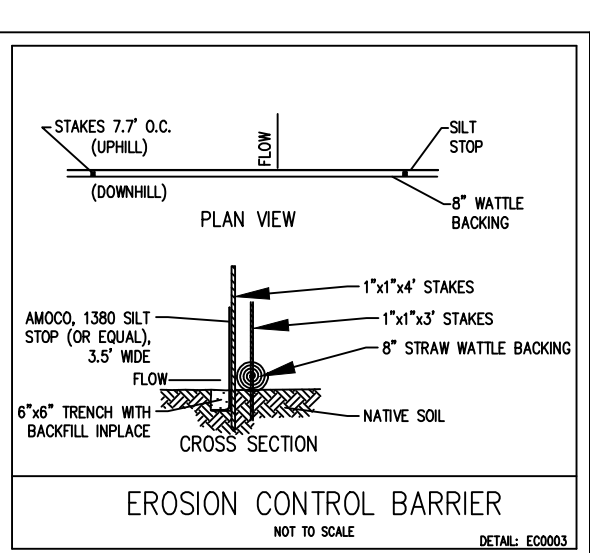
N/E
QUINN JOSEPH
37 BRADLEY LN - STOW, MA
PARCEL ID: 000-11 0001-3
DEED BK 32802 / PAGE 543
PL 726 OF 2000 (DB 31587 PG 478)
PL 1052 OF 1965



DIG SAFE NOTE

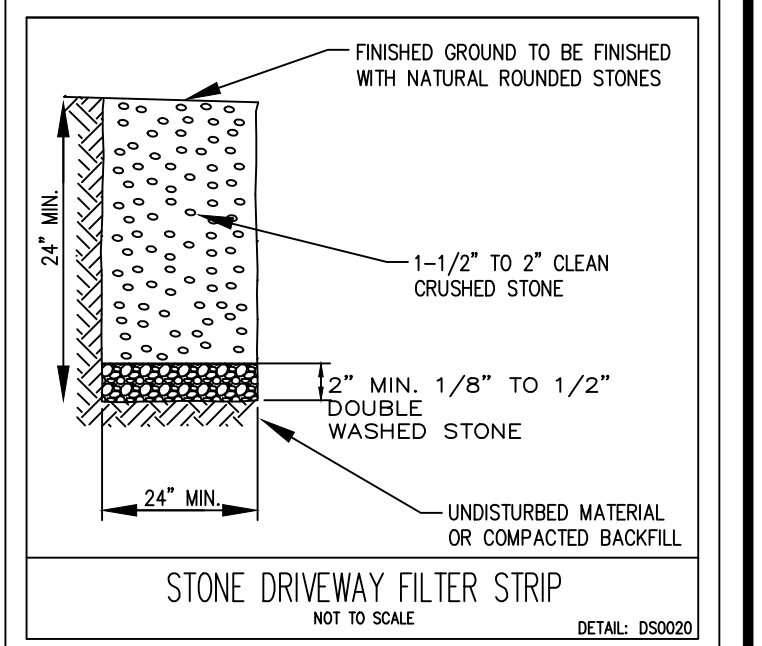
UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION. CALL DIGSAFE AT 811.

DIG SAFE
CALL 811

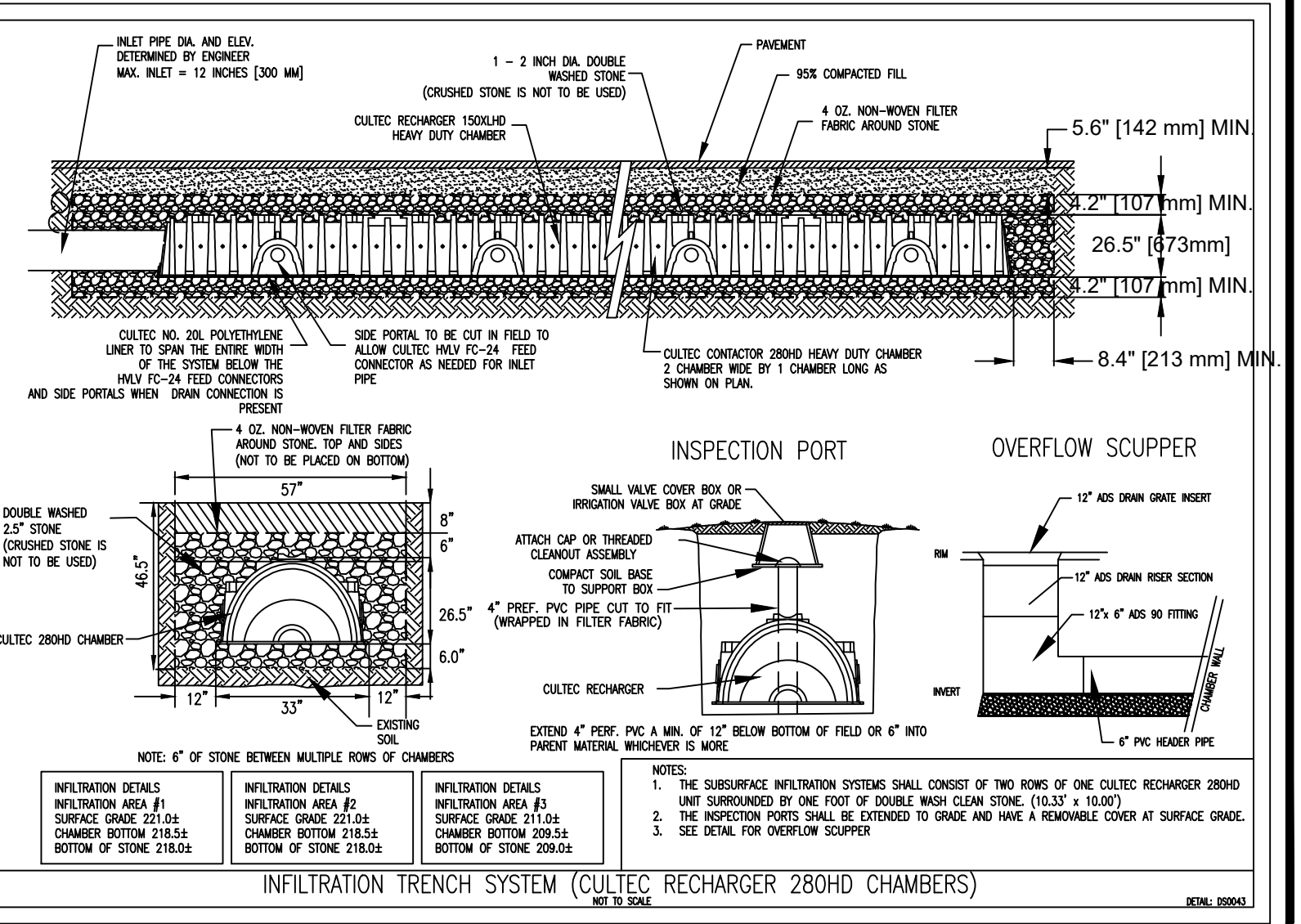


LEGEND

AC	AIR CONDITIONING UNIT	IR	IRON ROD
AD	AREA DRAIN	IRC	IRON ROD W/ CAP
BB	BITUMINOUS BERM	LA	LANDSCAPE AREA
BCC	BITUMINOUS CONCRETE CURB	LDP	LEAD PLUG
BDF	BOARD FENCE	LG	EDGE
BDR	BOULDER	LP	LIGHT POST
BIT	BITUMINOUS CONCRETE	MB	SINGLE POST MAILBOX W/ NUMBER
BOR	GEOTECHNICAL BORING	MAGN	MAGNETIC NAIL
BP	BEANPOLE	MAGS	MAGNETIC SPIKE
BWF	BRICK RETAINING WALL	MW	MONITORING WELL
BWL	BROKEN WHITE TRAFFIC LINE	OWH	OVERHEAD WIRE
BYL	BROKEN YELLOW TRAFFIC LINE	PERF	PERFORATED PIPE
CB	CONCRETE BOUND	PFI	POCKET FENCE
CBX	CABLE BOX	PF	POST & RAIL FENCE
CC	CONCRETE CURB	PVC	POLYVINYL CHLORIDE PIPE
CL	CENTER LINE	RCP	ROOF DRAIN
CLF	CHAIN LINK FENCE	RD	RIGHT-OF-WAY
CMF	CORRUGATED METAL PIPE	RIP	RIPRAP
CO	CLEAN OUT	RIS	RAILROAD SPIKE
CONC	CONCRETE	RRT	RAILROAD TIE
CPW	CORRUGATED PLASTIC PIPE	RRW	RAILROAD TIE
CS	CURB STOP	SB	STONE BOUND
CWB	CABLE WIRE BARRIER	SSC	SLOPED GRANITE CURB
D	DOOR	SPK	10' GALVANIZED SPIKE
DB	DRILL HOLE	SRW	STONE RETAINING WALL
DSK	DISK	STF	STOCKADE FENCE
DMP	DETECTABLE WARNING PAD	STK	HUB STAKE
DYL	DOUBLE YELLOW TRAFFIC LINE	STP	STEP
EDB	ELECTRIC BOX	STW	STONEWALL
EM	ELECTRIC METER	SWL	SOLID WHITE TRAFFIC LINE
FF	FINISHED FLOOR	SYL	SOLID YELLOW TRAFFIC LINE
FMP	FIRE MAIN INDICATOR POST	TBX	TELEPHONE BOX
GBX	GAS BOX	TF	TOP OF FOUNDATION
GG	GAS GATE	TP	UTILITY POLE W/ NUMBER
GM	GAS METER	UP#	UTILITY POLE W/ NUMBER
GRS	STEEL GUARDRAIL	VC	VERTIFIED CLAY PIPE
GRW	WOOD GUARDRAIL	VOC	VERTICAL GRANITE CURB
GSO	GAS SHUTOFF	VP	VENT PIPE
GT	GATE	W	WELL
HH	HAND HOLE	WF#	WATER BOX
HP	HANDICAP	WFL	WETLAND FLAG W/ NUMBER
HW	HEADWALL	WM	WATERGATE
HYD	FIRE HYDRANT	WN	WIRE FENCE
ICV	IRRIGATION CONTROL VALVE	WRW	WOOD RETAINING WALL
INV	DRAINAGE INVERT	WSO	WOOD SHUTOFF
IP	IRON PIPE		



- SEDIMENTATION & EROSION CONTROL METHODS & PROCEDURES**
- EROSION CONTROL MEASURES (SEE DETAILS) SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION AS INDICATED.
 - MEASURES SHALL BE TAKEN TO LIMIT THE TRACKING OF MATERIAL FROM THE SITE ONTO BREAKECK HILL ROAD.
 - DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED MEASURES AS NECESSARY.
 - THROUGHOUT CONSTRUCTION, ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDING AND MULCHED AS SOON AS PRACTICABLE IN ORDER TO AVOID OVERLAND TRANSPORT OF SEDIMENT.
 - EROSION CONTROL MEASURES ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND PARTICULARLY AFTER SIGNIFICANT RAINFALL. DIAPHRAGM HAYBALES AND SILT STOP SHALL BE REPLACED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE BARRIER.
 - WITH SLOPES STABILIZED AND FINAL INSPECTION COMPLETE, THE EROSION CONTROL BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OFF-SITE.



DRWN BY: ZRB
CHK'D BY: PSB
APRVD BY: WML

REVISIONS:

REV	DATE	DESCRIPTION
2	10/5/21	UPDATE WITH BARN LAYOUT FOR CONSTRUCTION
1	3/16/21	ADDRESS COMMENTS & ISSUE FOR ORDER
0	2/24/21	ISSUED FOR PERMITTING

WALTER M. LEWIS
CIVIL
No. 32227
REGISTERED PROFESSIONAL ENGINEER

Graphic Scale
1 inch = 20 feet

0 20 40 60

PREPARED BY:
Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
(508) 480-0225

PROJECT:
MAUCH RESIDENCE
220 GREAT ROAD (MAP 11 PARCEL 6)
(MIDDLESEX COUNTY - SOUTH DISTRICT)
STOW, MASSACHUSETTS

TITLE:
**NOTICE OF INTENT
SITE DEVELOPMENT PLAN**

PREPARED FOR:
Nicholas J. Mauch
220 Great Road
Stow, Massachusetts 01775

DATE:
FEBRUARY 24, 2021

1 OF 1
EDC PROJECT NUMBER
3681