DEFINITIVE SUBDIVISION
PLAN OF LAND
EASTERN WOOD ESTATES
FRANKLIN MASSACHUSETTS

I, NANCY DANELLO, ACTING CLERK OF THE TOWN OF FRANKLIN, RECEIVED AND RECORDED FROM THE PLANNING BOARD COVENANT APPROVAL OF THIS PLAN ON AND NO APPEAL WAS TAKEN FOR TWENTY DAYS NEXT AFTER RECEIPT AND RECORDING OF SAME.

TOWN CLERK _____ DATE _____

REGISTRY USE ONLY

F4410

INDEX

VICINITY MAP
1"=800'

WAIVER OF REQUEST

1. REQUEST A WAIVER FROM SECTION 300-13(A)(1) TO ALLOW NO SIDEWALKS WHERE TWO ARE REQUIRED.
2. REQUEST A WAIVER FROM SECTION 300-10(G)(6) TO PROVIDE ACCESS THROUGH THE THE REQUIRED FRONTAGE OF THE SERVICED LOT.

APPROVED DATE: _____

FRANKLIN PLANNING BOARD

_____

_____

_____

_____

_____

_____

BEING A MAJORITY

I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTER OF DEEDS.

THIS IS NOT A CERTIFICATION AS TO THE TITLE OR OWNERSHIP OF THE LAND SHOWN HEREON.

COMMONWEALTH OF MASSACHUSETTS ROBERT E. CONSTANTINE, II No. 49611 REGISTERED PROFESSIONAL LAND SURVEYOR — 8/19/21

COMMONWEALTH OF MASSACHUSETTS ROBERT J. DUFF No. 40707 CIVIL REGISTERED PROFESSIONAL ENGINEER — 8-19-21

OWNER

KYLE McNAMARA
418 OLD RIVER ROAD
LINCOLN, RI 02838

DEED BOOK 38469 PAGE 40
ASSESSOR MAP 315, LOT 37

APPLICANT

NORTHEAST DEVELOPMENT GROUP
418 OLD RIVER ROAD
LINCOLN, RI 02838

DEFINITIVE SUBDIVISION
PLAN OF LAND
EASTERN WOOD ESTATES
FRANKLIN
MASSACHUSETTS

COVER

AUGUST 17, 2021

DATE	REVISION DESCRIPTION

Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING
55 WEST CENTRAL ST. PH. (508) 528-3221
FRANKLIN, MA 02038 FX. (508) 528-7921
www.gandhengineering.com

SHEET 1 OF 11

JOB NO. F4410

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

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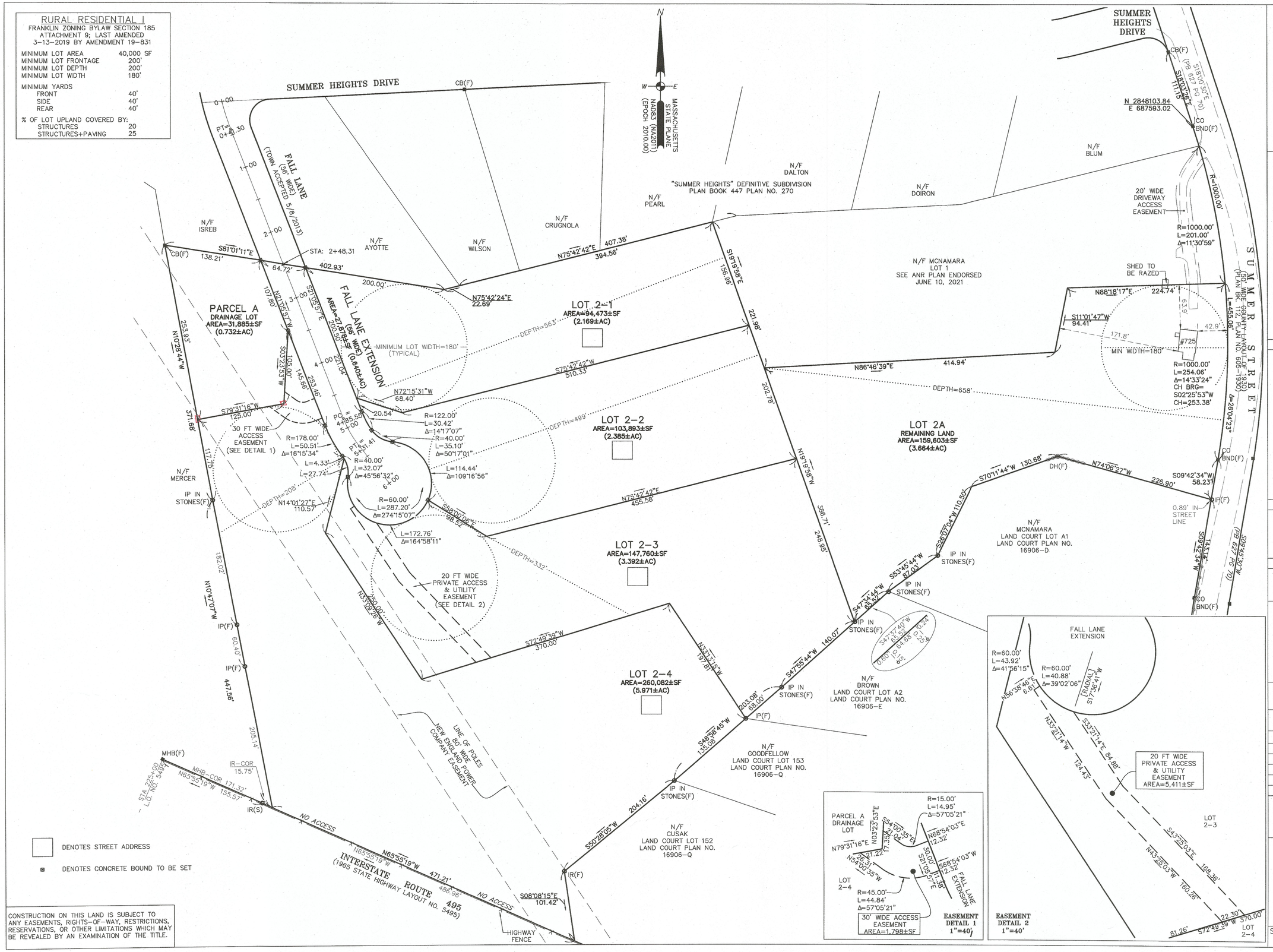
RURAL RESIDENTIAL I

FRANKLIN ZONING BYLAW SECTION 185
ATTACHMENT 9; LAST AMENDED
3-13-2019 BY AMENDMENT 19-831

MINIMUM LOT AREA	40,000 SF
MINIMUM LOT FRONTAGE	200'
MINIMUM LOT DEPTH	200'
MINIMUM LOT WIDTH	180'
MINIMUM YARDS	
FRONT	40'
SIDE	40'
REAR	40'
% OF LOT UPLAND COVERED BY:	
STRUCTURES	20
STRUCTURES+PAVING	25



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REGISTRY USE ONLY

F4410

APPROVED DATE:

FRANKLIN PLANNING BOARD

BEING A MAJORITY

CERTIFICATION

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8/17/21

COMMONWEALTH OF MASSACHUSETTS ROBERT E. CONSTANTINE, II No. 49611 REGISTERED PROFESSIONAL LAND SURVEYOR

OWNER

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418 OLD RIVER ROAD
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DEED BOOK 38469 PAGE 40
ASSESSOR MAP 315, LOT 37

APPLICANT

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418 OLD RIVER ROAD
LINCOLN, RI 02838

DEFINITIVE SUBDIVISION PLAN OF LAND EASTERN WOOD ESTATES FRANKLIN MASSACHUSETTS

LOTTING PLAN

AUGUST 17, 2021

DATE	REVISION DESCRIPTION

GRAPHIC SCALE: 1"=60'

0 50 75 100 150 200 FEET
0 5 10 15 20 30 40 50 60 METERS

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SHEET 2 OF 11

JOB NO. F4410

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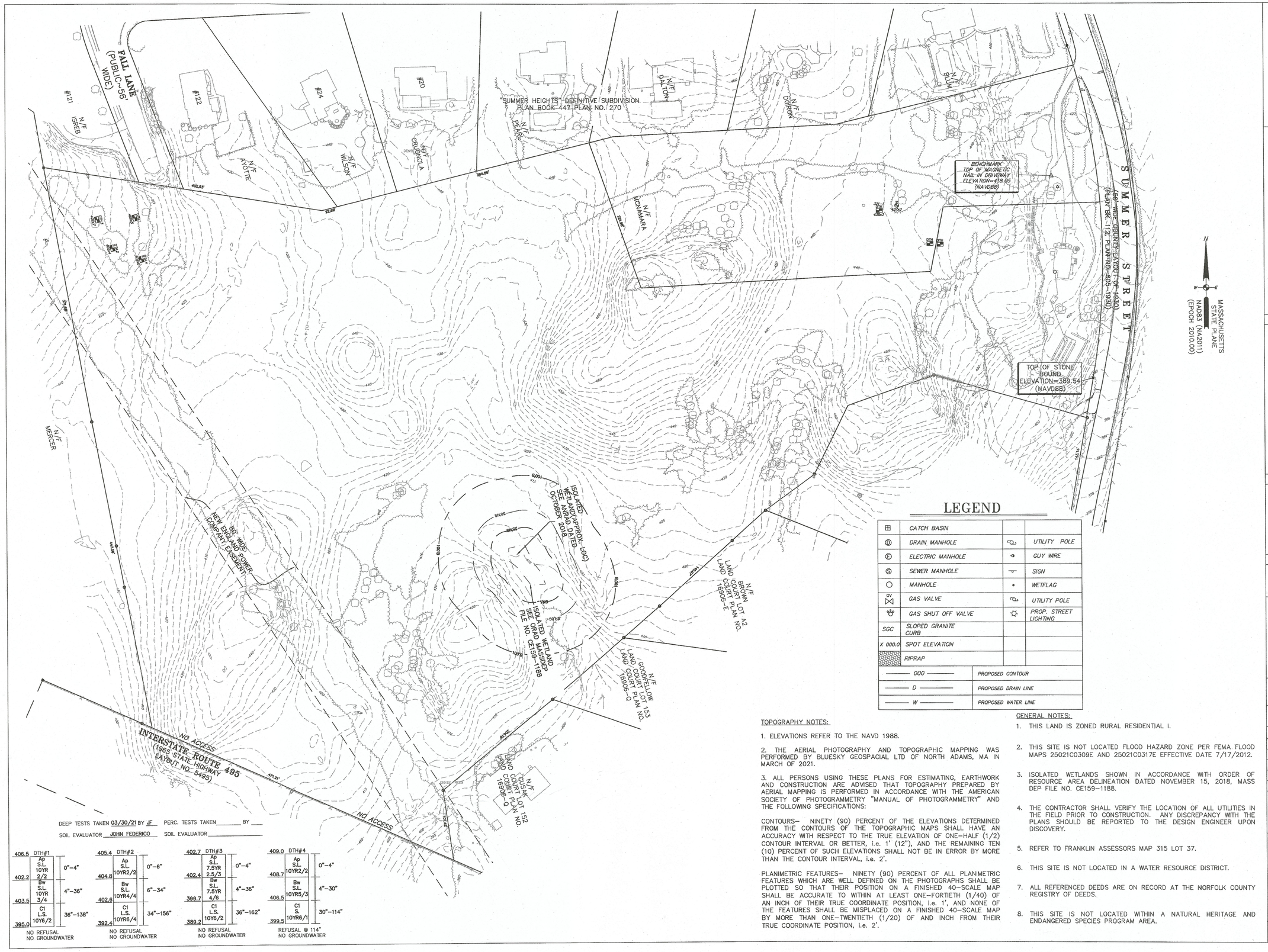

DEEP TESTS TAKEN 03/30/21 BY JF PERC. TESTS TAKEN_____ BY ____

SOIL EVALUATOR JOHN FEDERICO SOIL EVALUATOR _____

	DTH#1		
406.5	Ap S.L. 10YR 2/2	0"–4"	
402.2	Bw S.L. 10YR 3/4	4"–36"	
403.5	C1 L.S. 10YR6/2	36"–138"	
395.0			

NO REFUSAL
NO GROUNDWATER

	DTH#2		
405.4	Ap S.L. 10YR2/2	0"–6"	
404.8	Bw S.L. 10YR4/4	6"–34"	
402.6	C1 L.S. 10YR6/4	34"–156"	
392.4			

NO REFUSAL
NO GROUNDWATER

	DTH#3		
402.7	Ap S.L. 7.5YR 2.5/3	0"–4"	
402.4	Bw S.L. 7.5YR 4/6	4"–36"	
399.7	C1 L.S. 10YR6/2	36"–162"	
389.2			

NO REFUSAL
NO GROUNDWATER

	DTH#4		
409.0	Ap S.L. 10YR2/2	0"–4"	
408.7	Bw S.L. 10YR5/3	4"–30"	
406.5	C1 S. 10YR6/1	30"–114"	
399.5			

REFUSAL @ 114"
NO GROUNDWATER

LEGEND

	CATCH BASIN		
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WETFLAG
GV	GAS VALVE		UTILITY POLE
	GAS SHUT OFF VALVE		PROP. STREET LIGHTING
SGC	SLOPED GRANITE CURB		
X 000.0	SPOT ELEVATION		
	RIPRAP		

000	PROPOSED CONTOUR
D	PROPOSED DRAIN LINE
W	PROPOSED WATER LINE

TOPOGRAPHY NOTES:

1. ELEVATIONS REFER TO THE NAVD 1988.

2. THE AERIAL PHOTOGRAPHY AND TOPOGRAPHIC MAPPING WAS PERFORMED BY BLUESKY GEOSPACIAL LTD OF NORTH ADAMS, MA IN MARCH OF 2021.

3. ALL PERSONS USING THESE PLANS FOR ESTIMATING, EARTHWORK AND CONSTRUCTION ARE ADVISED THAT TOPOGRAPHY PREPARED BY AERIAL MAPPING IS PERFORMED IN ACCORDANCE WITH THE AMERICAN SOCIETY OF PHOTOGRAMMETRY "MANUAL OF PHOTOGRAMMETRY" AND THE FOLLOWING SPECIFICATIONS:

CONTOURS– NINETY (90) PERCENT OF THE ELEVATIONS DETERMINED FROM THE CONTOURS OF THE TOPOGRAPHIC MAPS SHALL HAVE AN ACCURACY WITH RESPECT TO THE TRUE ELEVATION OF ONE–HALF (1/2) CONTOUR INTERVAL OR BETTER, i.e. 1' (12"), AND THE REMAINING TEN (10) PERCENT OF SUCH ELEVATIONS SHALL NOT BE IN ERROR BY MORE THAN THE CONTOUR INTERVAL, i.e. 2'.

PLANIMETRIC FEATURES– NINETY (90) PERCENT OF ALL PLANIMETRIC FEATURES WHICH ARE WELL DEFINED ON THE PHOTOGRAPHS SHALL BE PLOTTED SO THAT THEIR POSITION ON A FINISHED 40–SCALE MAP SHALL BE ACCURATE TO WITHIN AT LEAST ONE–FORTIETH (1/40) OF AN INCH OF THEIR TRUE COORDINATE POSITION, i.e. 1', AND NONE OF THE FEATURES SHALL BE MISPLACED ON A FINISHED 40–SCALE MAP BY MORE THAN ONE–TWENTIETH (1/20) OF AND INCH FROM THEIR TRUE COORDINATE POSITION, i.e. 2'.

GENERAL NOTES:

1. THIS LAND IS ZONED RURAL RESIDENTIAL I.

2. THIS SITE IS NOT LOCATED FLOOD HAZARD ZONE PER FEMA FLOOD MAPS 25021C0309E AND 25021C0317E EFFECTIVE DATE 7/17/2012.

3. ISOLATED WETLANDS SHOWN IN ACCORDANCE WITH ORDER OF RESOURCE AREA DELINEATION DATED NOVEMBER 15, 2018, MASS DEP FILE NO. CE159–1188.

4. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCY WITH THE PLANS SHOULD BE REPORTED TO THE DESIGN ENGINEER UPON DISCOVERY.

5. REFER TO FRANKLIN ASSESSORS MAP 315 LOT 37.

6. THIS SITE IS NOT LOCATED IN A WATER RESOURCE DISTRICT.

7. ALL REFERENCED DEEDS ARE ON RECORD AT THE NORFOLK COUNTY REGISTRY OF DEEDS.

8. THIS SITE IS NOT LOCATED WITHIN A NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM AREA.

COMMONWEALTH OF MASSACHUSETTS ROBERT E. CONSTANTINE, II No. 43611 REGISTERED PROFESSIONAL LAND SURVEYOR 8/19/21

COMMONWEALTH OF MASSACHUSETTS ROBERT J. DUFF No. 40787 CIVIL REGISTERED PROFESSIONAL ENGINEER 8-19-21

F4410

APPROVED DATE:

FRANKLIN PLANNING BOARD

BEING A MAJORITY

LEGAL NOTES

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OWNER

KYLE McNAMARA
418 OLD RIVER ROAD
LINCOLN, RI 02838

DEED BOOK 38469 PAGE 40
ASSESSOR MAP 315, LOT 37

APPLICANT

NORTHEAST DEVELOPMENT GROUP
418 OLD RIVER ROAD
LINCOLN, RI 02838

DEFINITIVE SUBDIVISION PLAN OF LAND EASTERN WOOD ESTATES FRANKLIN MASSACHUSETTS

EXISTING CONDITIONS PLAN

AUGUST 17, 2021

DATE	REVISION DESCRIPTION

GRAPHIC SCALE: 1"=60'

0 50 75 100 150 200 FEET
0 5 10 15 20 30 40 50 60 METERS

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SHEET 3 OF 11 JOB NO. F4410

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LEGEND

⊞	CATCH BASIN		
Ⓓ	DRAIN MANHOLE		UTILITY POLE
Ⓔ	ELECTRIC MANHOLE		GUY WIRE
Ⓢ	SEWER MANHOLE		SIGN
○	MANHOLE	•	WETFLAG
GV ⋈	GAS VALVE		UTILITY POLE
	GAS SHUT OFF VALVE		PROP. STREET LIGHTING
SGC	SLOPED GRANITE CURB		
X 000.0	SPOT ELEVATION		
	RIPRAP		

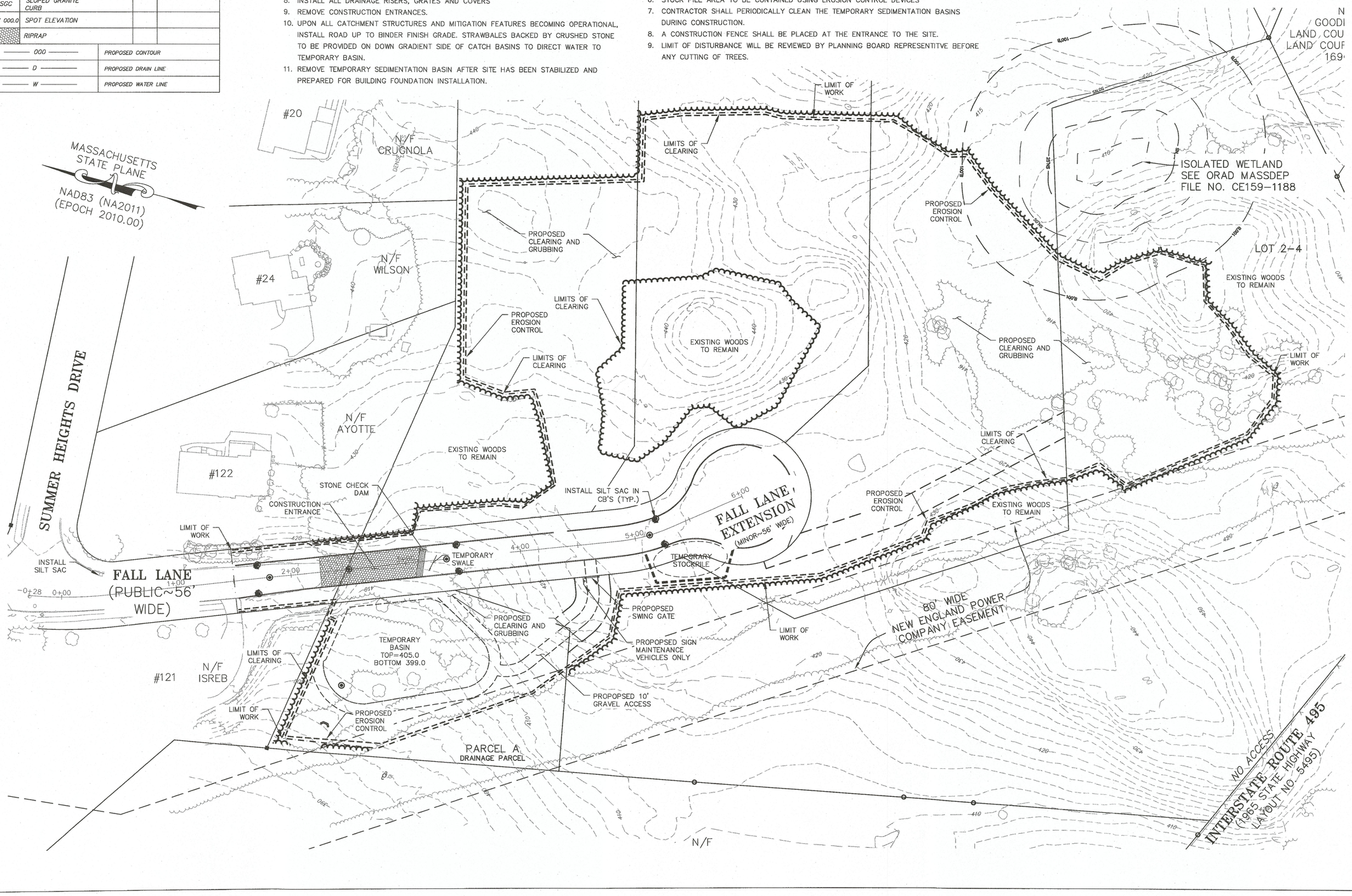
000	PROPOSED CONTOUR
D	PROPOSED DRAIN LINE
W	PROPOSED WATER LINE

EROSION CONTROL AND DRAINAGE CONSTRUCTION PHASING

1. INSTALL EROSION CONTROL DEVICES ALONG PERIMETER OF SITE WHERE SHOWN.
2. INSTALL CONSTRUCTION ENTRANCE.
3. SITE TO BE CLEARED AND GRUBBED.
4. INSTALL RETAINING WALLS.
5. INSTALLED SLOPE MATTING TO STABILIZE SLOPES (IF APPLICABLE)
6. INSTALL TEMPORARY SEDIMENT BASIN.
7. INSTALL DRAINAGE MANHOLES AND CATCHBASINS AND ENSURE TEMPORARY COVER IS IN PLACE.
8. INSTALL ALL DRAINAGE RISERS, GRATES AND COVERS
9. REMOVE CONSTRUCTION ENTRANCES.
10. UPON ALL CATCHMENT STRUCTURES AND MITIGATION FEATURES BECOMING OPERATIONAL, INSTALL ROAD UP TO BINDER FINISH GRADE. STRAWBALES BACKED BY CRUSHED STONE TO BE PROVIDED ON DOWN GRADIENT SIDE OF CATCH BASINS TO DIRECT WATER TO TEMPORARY BASIN.
11. REMOVE TEMPORARY SEDIMENTATION BASIN AFTER SITE HAS BEEN STABILIZED AND PREPARED FOR BUILDING FOUNDATION INSTALLATION.

GENERAL NOTES:

1. SPECIAL CONSIDERATION FOR INLET CONTROLS FOR EROSION COLLECTION BEFORE ENTERING DRAINAGE SYSTEM.
2. INSTALL SILT SACKS.
3. INSTALL BARRIER AROUND CATCH BASIN, MULCH SOCK OR EQUAL.
4. INSTALL FILTER FABRIC ON ALL DRAIN MANHOLE OUTLETS DISCHARGING TO INFILTRATION SYSTEM.
5. INSPECTIONS BEFORE AND AFTER STORM EVENTS ARE REQUIRED TO INSURE ADEQUACY OF EROSION CONTROL MEASURES.
6. STOCK PILE AREA TO BE CONTAINED USING EROSION CONTROL DEVICES
7. CONTRACTOR SHALL PERIODICALLY CLEAN THE TEMPORARY SEDIMENTATION BASINS DURING CONSTRUCTION.
8. A CONSTRUCTION FENCE SHALL BE PLACED AT THE ENTRANCE TO THE SITE.
9. LIMIT OF DISTURBANCE WILL BE REVIEWED BY PLANNING BOARD REPRESENTITVE BEFORE ANY CUTTING OF TREES.



COMMONWEALTH OF MASSACHUSETTS
ROBERT J. DUFF
No. 40707
CIVIL
REGISTERED PROFESSIONAL ENGINEER

RJD 8-19-21

F4410

APPROVED DATE:

FRANKLIN PLANNING BOARD

BEING A MAJORITY

LEGAL NOTES

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OWNER

KYLE McNAMARA
418 OLD RIVER ROAD
LINCOLN, RI 02838

DEED BOOK 38469 PAGE 40
ASSESSOR MAP 315, LOT 37

APPLICANT

NORTHEAST DEVELOPMENT GROUP
418 OLD RIVER ROAD
LINCOLN, RI 02838

DEFINITIVE SUBDIVISION PLAN OF LAND EASTERN WOOD ESTATES FRANKLIN MASSACHUSETTS

EROSION CONTROL PLAN

AUGUST 17, 2021

DATE	REVISION DESCRIPTION

GRAPHIC SCALE: 1"=40'

0 10 20 30 40 50 75 100 FEET
0 5 10 15 20 30 METERS

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SHEET 4 OF 11

JOB NO. F4410

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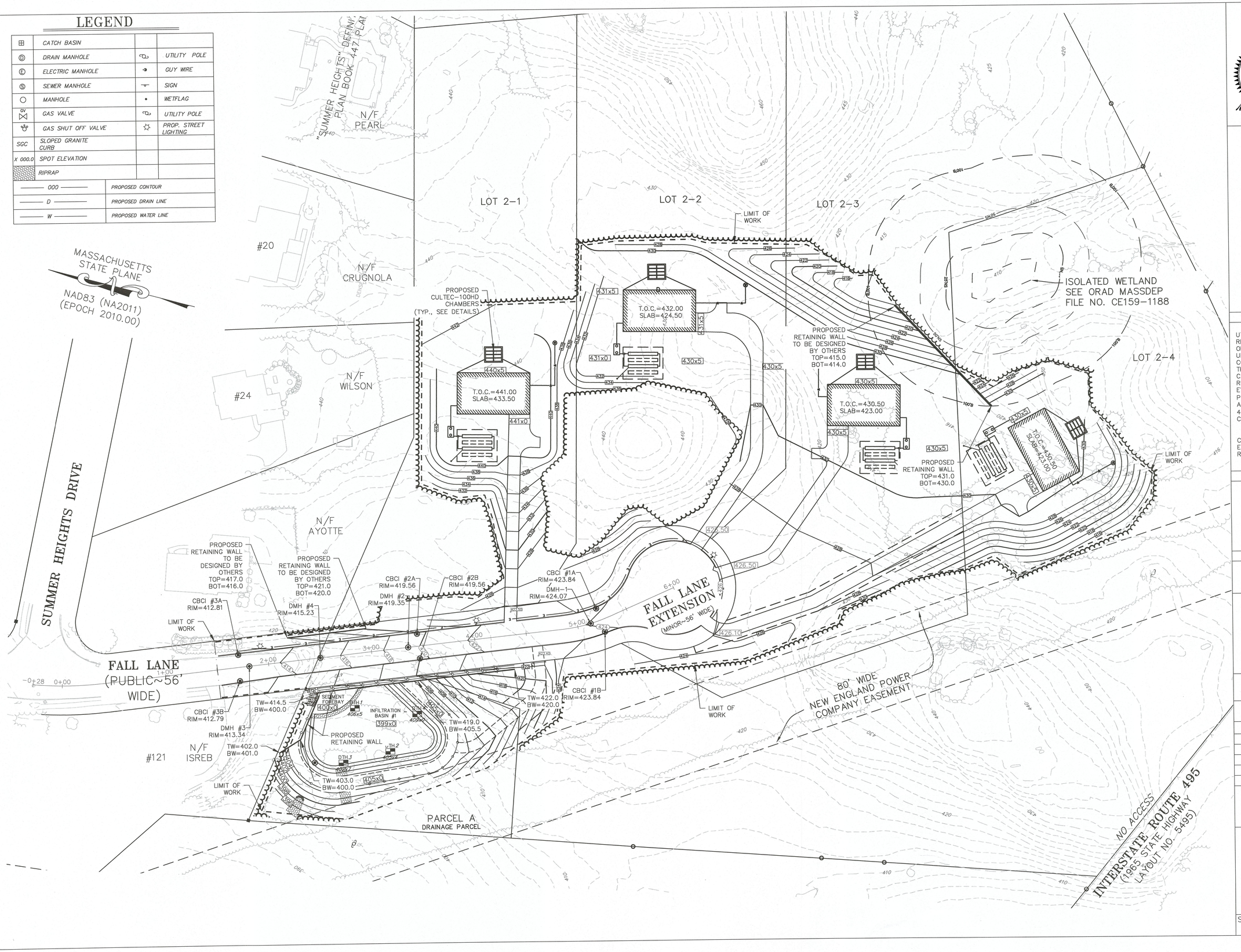
LEGEND

	CATCH BASIN		
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WETFLAG
GV	GAS VALVE		UTILITY POLE
	GAS SHUT OFF VALVE		PROP. STREET LIGHTING
SGC	SLOPED GRANITE CURB		
X 000.0	SPOT ELEVATION		
	RIPRAP		

000	PROPOSED CONTOUR
D	PROPOSED DRAIN LINE
W	PROPOSED WATER LINE



8/19/21
ROBERT E. CONSTANTINE, III No. 49611 REGISTERED PROFESSIONAL LAND SURVEYOR COMMONWEALTH OF MASSACHUSETTS

ROBERT S. DUFF No. 40707 CIVIL REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS
8-19-21

F4410

APPROVED DATE:

FRANKLIN PLANNING BOARD

BEING A MAJORITY

LEGAL NOTES

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LINCOLN, RI 02838

DEED BOOK 38469 PAGE 40
ASSESSOR MAP 315, LOT 37

APPLICANT

NORTHEAST DEVELOPMENT GROUP
418 OLD RIVER ROAD
LINCOLN, RI 02838

DEFINITIVE SUBDIVISION PLAN OF LAND EASTERN WOOD ESTATES FRANKLIN MASSACHUSETTS

SITE DEVELOPMENT AND GRADING PLAN

AUGUST 17, 2021

DATE	REVISION DESCRIPTION

GRAPHIC SCALE: 1"=40'
0 10 20 30 40 50 75 100 FEET
0 5 10 15 20 30 METERS

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SHEET 5 OF 11

JOB NO. F4410

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LEGEND

	CATCH BASIN		
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WETFLAG
GV	GAS VALVE		UTILITY POLE
	GAS SHUT OFF VALVE		PROP. STREET LIGHTING
SGC	SLOPED GRANITE CURB		
X 000.0	SPOT ELEVATION		
	RIPRAP		

000	PROPOSED CONTOUR
D	PROPOSED DRAIN LINE
W	PROPOSED WATER LINE

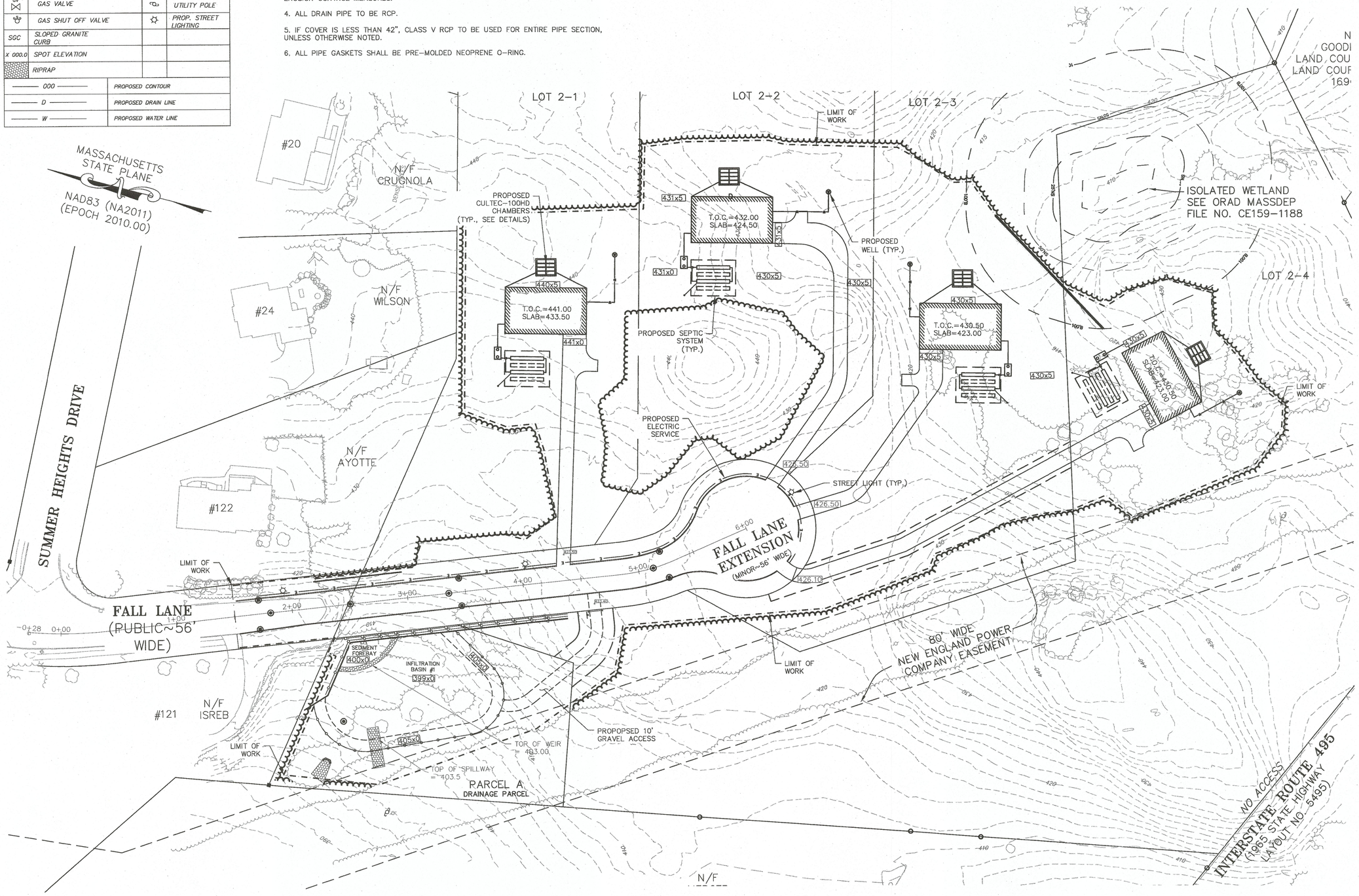
STORM DRAINAGE NOTES

SPECIAL CONSIDERATION FOR INLET CONTROLS FOR EROSION COLLECTION BEFORE ENTERING DRAINAGE SYSTEM:

1. INSTALL SILT SACKS.
2. BARRIER AROUND CATCH BASIN, MULCH SOCK OR EQUAL
3. INSPECTIONS BEFORE AND AFTER STORM EVENTS ARE REQUIRED TO INSURE ADEQUACY OF EROSION CONTROL MEASURES.
4. ALL DRAIN PIPE TO BE RCP.
5. IF COVER IS LESS THAN 42", CLASS V RCP TO BE USED FOR ENTIRE PIPE SECTION, UNLESS OTHERWISE NOTED.
6. ALL PIPE GASKETS SHALL BE PRE-MOLDED NEOPRENE O-RING.

UTILITY NOTE

1. ALL UTILITIES SHALL BE CONSTRUCTED ACCORDING TO STATE AND LOCAL REGULATIONS.



8/19/21
COMMONWEALTH OF MASSACHUSETTS ROBERT E. CONSTANTINE, II No. 49611 REGISTERED PROFESSIONAL LAND SURVEYOR

COMMONWEALTH OF MASSACHUSETTS ROBERT U. DUFF No. 48707 CIVIL REGISTERED PROFESSIONAL ENGINEER
8-19-21

F4410

APPROVED DATE:

FRANKLIN PLANNING BOARD

BEING A MAJORITY

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DEED BOOK 38469 PAGE 40
ASSESSOR MAP 315, LOT 37

APPLICANT

NORTHEAST DEVELOPMENT GROUP
418 OLD RIVER ROAD
LINCOLN, RI 02838

DEFINITIVE SUBDIVISION PLAN OF LAND EASTERN WOOD ESTATES FRANKLIN MASSACHUSETTS

UTILITY PLAN

AUGUST 17, 2021

DATE	REVISION DESCRIPTION

GRAPHIC SCALE: 1"=40'
0 10 20 30 40 50 75 100 FEET
0 5 10 15 20 30 METERS

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SHEET 6 OF 11 JOB NO. F4410

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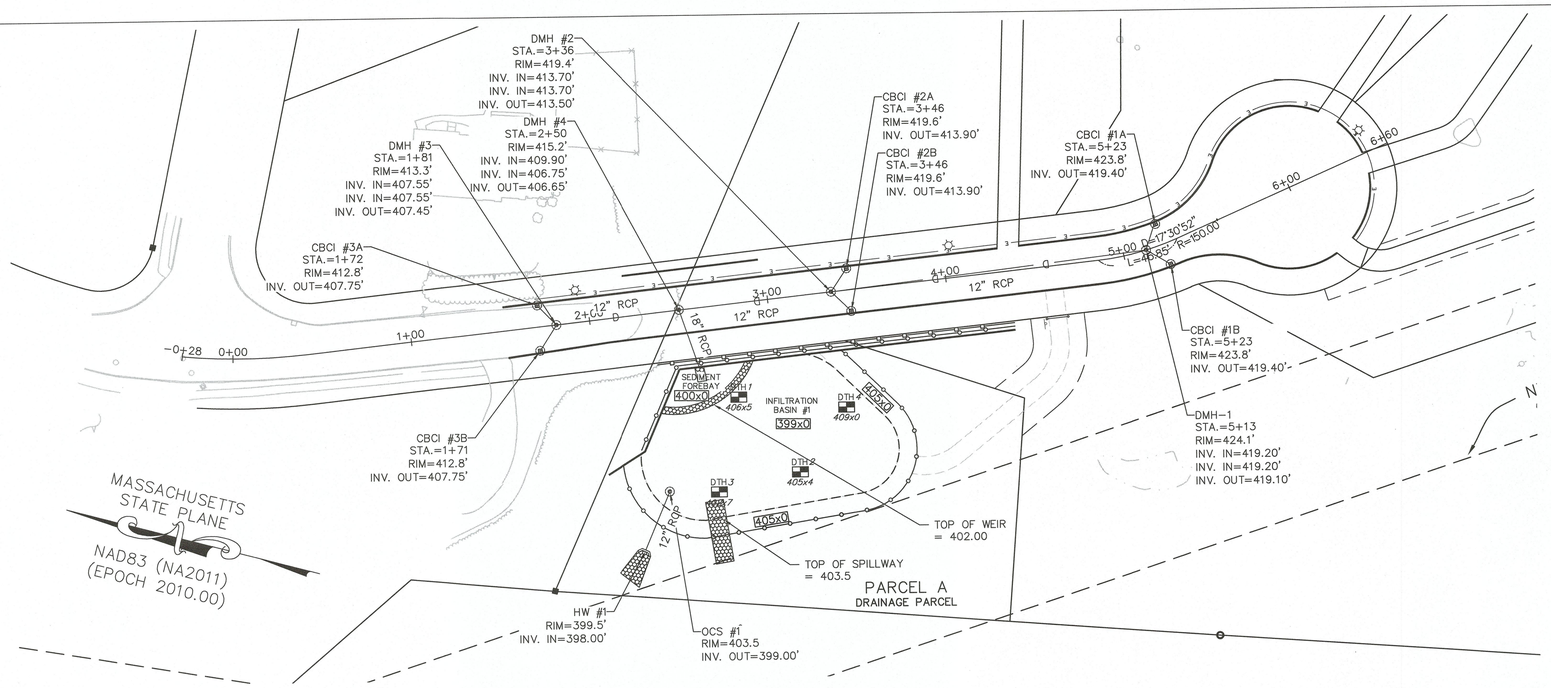

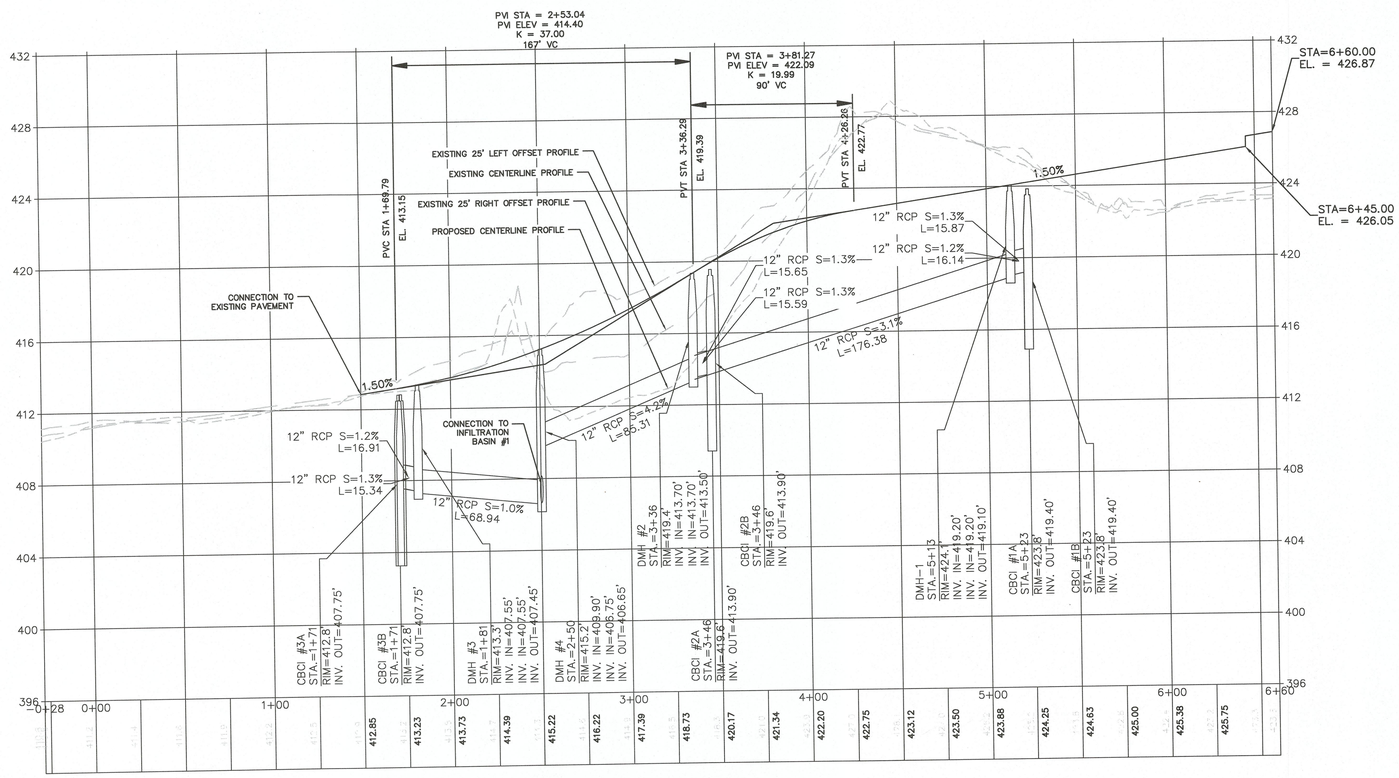

FALL LANE EXTENSION
-0+28 TO 6+60.00

LEGEND

	CATCH BASIN		
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WETFLAG
GV	GAS VALVE		UTILITY POLE
SO	GAS SHUT OFF VALVE		PROP. STREET LIGHTING
SGC	SLOPED GRANITE CURB		
X 000.0	SPOT ELEVATION		
	RIPRAP		
000	PROPOSED CONTOUR		
D	PROPOSED DRAIN LINE		
W	PROPOSED WATER LINE		

NOTE:

1. WHERE ANY UTILITY INSTALLATION DETAIL CONFLICTS WITH THE TOWN OF FRANKLIN DEPARTMENT OF PUBLIC WORKS STANDARDS FOR SEWER AND WATER MATERIALS AND INSTALLATION (TOWN STANDARDS), THE TOWN STANDARDS SHALL GOVERN.

2. THE TELEPHONE, ELECTRIC, AND CABLE UTILITIES SHALL NOT BE LOCATED BENEATH SIDEWALKS IN ACCORDANCE WITH SECTION 300-12(C)(1).

COMMONWEALTH OF MASSACHUSETTS ROBERT E. CONSTANTINE, II No. 49611 REGISTERED PROFESSIONAL LAND SURVEYOR

COMMONWEALTH OF MASSACHUSETTS ROBERT J. DUFF No. 40707 CIVIL REGISTERED PROFESSIONAL ENGINEER

8-19-21

F4410

APPROVED DATE:

FRANKLIN PLANNING BOARD

BEING A MAJORITY

LEGAL NOTES

UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS, MARKINGS AND OTHER OBSERVED EVIDENCE TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE. LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. ADDITIONAL UTILITIES, NOT EVIDENCED BY RECORD DOCUMENTS OR OBSERVED PHYSICAL EVIDENCE, MAY EXIST. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING AND CALL DIGSAFE AT 1(888)DIG-SAFE{7233}.

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

OWNER

KYLE McNAMARA
418 OLD RIVER ROAD
LINCOLN, RI 02838

DEED BOOK 38469 PAGE 40
ASSESSOR MAP 315, LOT 37

APPLICANT

NORTHEAST DEVELOPMENT GROUP
418 OLD RIVER ROAD
LINCOLN, RI 02838

DEFINITIVE SUBDIVISION PLAN OF LAND EASTERN WOOD ESTATES FRANKLIN MASSACHUSETTS

PLAN & PROFILE

AUGUST 17, 2021

DATE	REVISION DESCRIPTION

GRAPHIC SCALE: 1"=40'
0 10 20 30 40 50 75 100 FEET
0 5 10 15 20 30 METERS

Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING
55 WEST CENTRAL ST.
FRANKLIN, MA 02038
PH. (508) 528-3221
FX. (508) 528-7921
www.gandhengineering.com

SHEET 7 OF 11

JOB NO. F4410

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LEGEND

	CATCH BASIN		
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WETFLAG
GV	GAS VALVE		UTILITY POLE
	GAS SHUT OFF VALVE		PROP. STREET LIGHTING
SGC	SLOPED GRANITE CURB		
X 000.0	SPOT ELEVATION		
	RIPRAP		
000	PROPOSED CONTOUR		
D	PROPOSED DRAIN LINE		
W	PROPOSED WATER LINE		

NOTE:

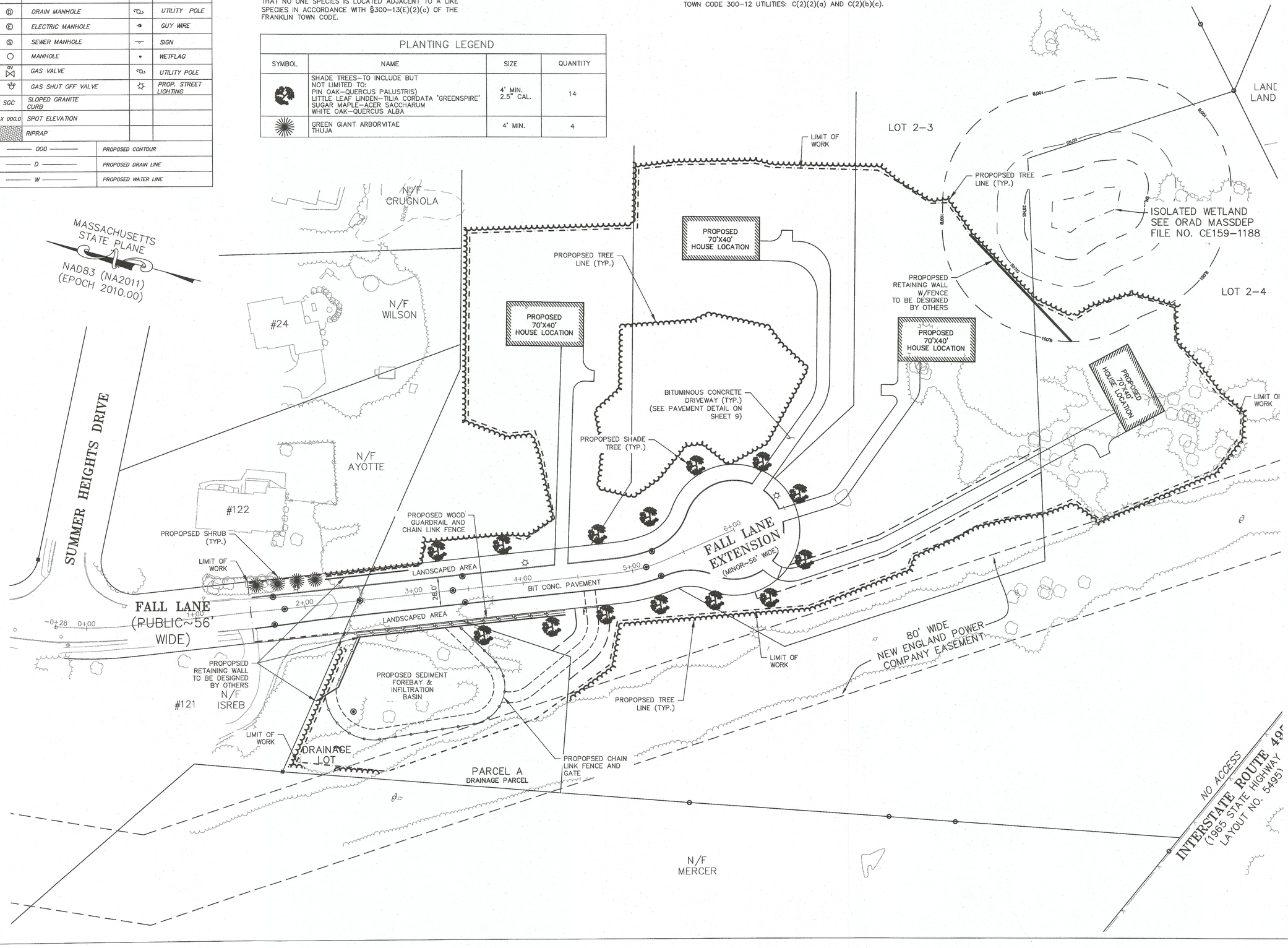
1 PROPOSED SHADE TREES SHALL BE STAGGERED SUCH THAT NO ONE SPECIES IS LOCATED ADJACENT TO A LIKE SPECIES IN ACCORDANCE WITH §300-13(E)(2)(c) OF THE FRANKLIN TOWN CODE.

LIGHTING NOTE:

LIGHTING INSTALLATION SHALL BE IN ACCORDANCE WITH TOWN CODE 300-12 UTILITIES: C(2)(2)(a) AND C(2)(b)(c).

PLANTING LEGEND

SYMBOL	NAME	SIZE	QUANTITY
	SHADE TREES-TO INCLUDE BUT NOT LIMITED TO: PIN OAK-QUERCUS PALUSTRIS) LITTLE LEAF LINDEN-TILIA CORDATA 'GREENSPIRE' SUGAR MAPLE-ACER SACCHARUM WHITE OAK-QUERCUS ALBA	4' MIN. 2.5" CAL.	14
	GREEN GIANT ARBORVITAE THUJA	4' MIN.	4



ROBERT E CONSTANTINE, III No. 49611 REGISTERED PROFESSIONAL LAND SURVEYOR COMMONWEALTH OF MASSACHUSETTS 8/18/21

ROBERT J. DUFF No. 40707 CIVIL REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS 8.18.21

F4410

APPROVED DATE:

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BEING A MAJORITY

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DEED BOOK 38469 PAGE 40
ASSESSOR MAP 315, LOT 37

APPLICANT

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DEFINITIVE SUBDIVISION PLAN OF LAND EASTERN WOOD ESTATES FRANKLIN MASSACHUSETTS

LANDSCAPING PLAN

AUGUST 17, 2021

DATE	REVISION DESCRIPTION

GRAPHIC SCALE: 1"=40'

0 10 20 30 40 50 75 100 FEET
0 5 10 15 20 30 METERS

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SHEET 8 OF 11

JOB NO. F4410

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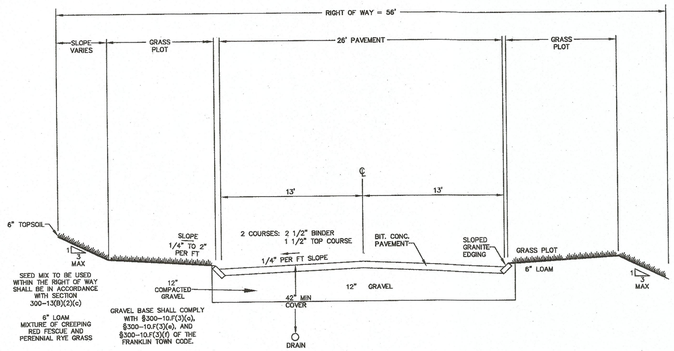
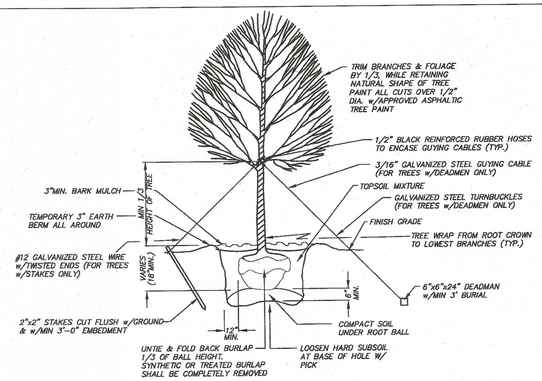


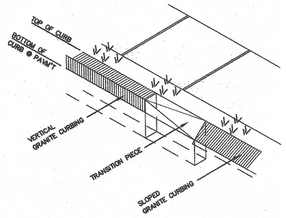
TYPICAL ROAD CROSS SECTION
NOT TO SCALE



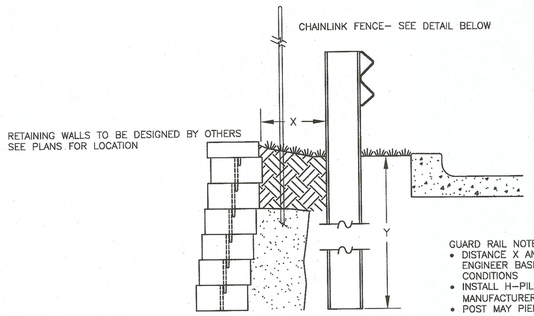
SHADE TREES TO BE TO BE PLACED AT AN AVERAGE SPACING OF 50 FEET AND OF A HARDWOOD SPECIES APPROVED BY THE PLANNING BOARD, 2 1/2" IN DIAMETER, CALIPER 1' ABOVE GRADE. TREES SHALL BE VARIED AMONG THE FOLLOWING SPECIES:

- SUGAR MAPLE (ACER SACCHARUM)
- WHITE OAK (QUERCUS ALBA)
- RED MAPLE (ACER RUBRUM)

TREE PLANTNG PLAN
NOT TO SCALE

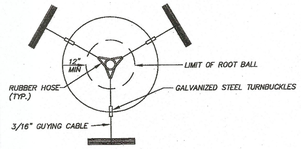


CURB TRANSITION DETAIL
N.T.S. (VERTICAL TO SLOPED)

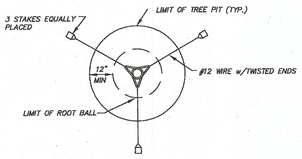


GUARD RAIL NOTES:

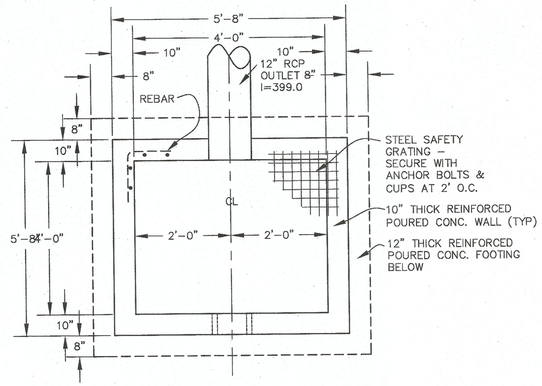
- DISTANCE X AND Y TO BE DETERMINED BY ENGINEER BASED ON SOILS AND LOADING CONDITIONS
- INSTALL H-PILE OR WOOD POST AS PER MANUFACTURER'S RECOMMENDATIONS
- POST MAY PIERCE UPPER LAYER OF GEOSYNTHETIC AS PER WALL DESIGN ENGINEER'S SPECIFICATION



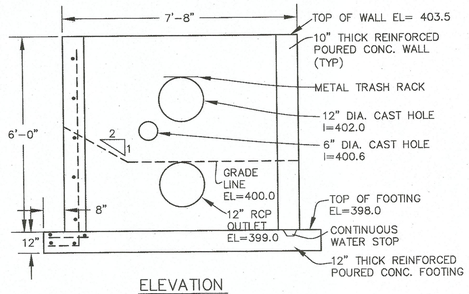
GUYING PLAN
DECIDUOUS TREES OVER 10" HEIGHT



GUYING PLAN

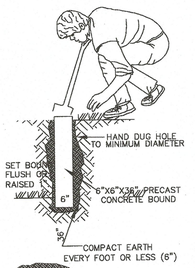


PLAN VIEW



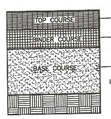
ELEVATION

OUTLET CONTROL STRUCTURE
NOT TO SCALE

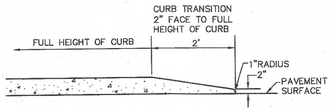


DIG SAFE NOTE:
PRIOR TO BOUND INSTALLATION, DIGSAFE MUST BE NOTIFIED AT 1(888)344-7233 1(888)DIG-SAFE) AND CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING.

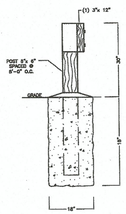
CONCRETE BOUND DETAIL
NOT TO SCALE



TYPICAL PAVEMENT SECTION
NOT TO SCALE

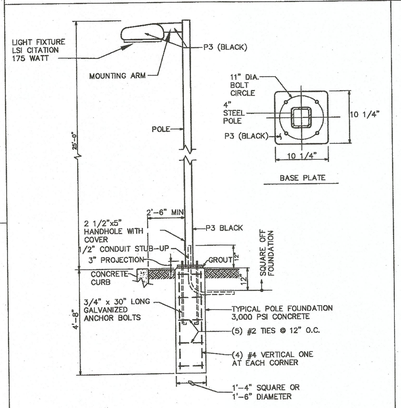


TRANSITION CURB DETAIL
N.T.S.

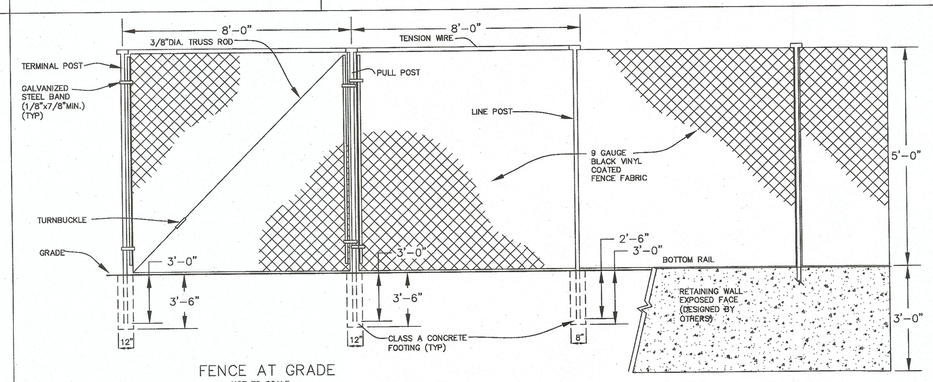


LOCATION OF GUARD RAIL WITHIN THE PROXIMITY OF RETAINING WALL TO BE DETERMINED BY ENGINEER OF RECORD.

WOODEN GUARDRAIL



TYPICAL YARD LIGHT DETAIL
NOT TO SCALE



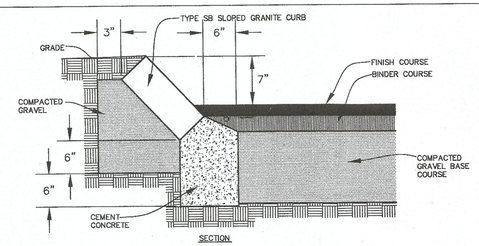
NOTES:

1. TOP TENSION WIRE SHALL BE 7 GAUGE ATTACHED WITH 12.5 GAUGE HOG RINGS, 12"O.C.
2. TOP RAIL WIRE TIES SHALL BE SPACED AT 24"MAX.
3. FENCE FABRIC TO BE LOCATED ON OUTSIDE OF FENCE POSTS.
4. BOTTOM OF FENCE FABRIC TO BE SECURED TO RETAINING WALL.

FENCE AT GRADE
NOT TO SCALE

CHAIN LINK FENCE
NOT TO SCALE

FENCE AT RETAINING WALL
NOT TO SCALE



SLOPED GRANITE CURB
NOT TO SCALE

COMMONWEALTH OF MASSACHUSETTS
ROBERT J. DUFF
No. 40708
CIVIL
REGISTERED PROFESSIONAL ENGINEER
8.19.21

F4410

APPROVED DATE:

FRANKLIN PLANNING BOARD

BEING A MAJORITY

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OWNER

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418 OLD RIVER ROAD
LINCOLN, RI 02838

DEED BOOK 38469 PAGE 40
ASSESSOR MAP 315, LOT 37

APPLICANT

NORTHEAST DEVELOPMENT GROUP
418 OLD RIVER ROAD
LINCOLN, RI 02838

DEFINITIVE SUBDIVISION PLAN OF LAND EASTERN WOOD ESTATES FRANKLIN MASSACHUSETTS

CONSTRUCTION DETAILS

AUGUST 17, 2021

DATE	REVISION DESCRIPTION

Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING
55 WEST CENTRAL ST. PH. (508) 528-3221
FRANKLIN, MA 02038 FX. (508) 528-7921
www.gandhengineering.com

SHEET 9 OF 11

JOB NO. F4410

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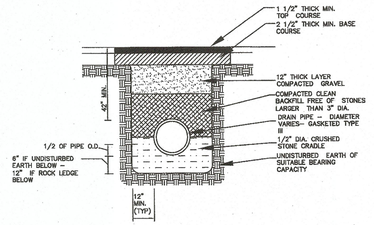
1. ALL CONSTRUCTION TO BE PERFORMED UNDER STRICT SUPERVISION OF THE DESIGN ENGINEER.
2. THE DETENTION/RETENTION POND SHALL BE CONSTRUCTED OF CLEAN DENSE MATERIAL (TILL) FREE OF STUMPS, LUMBER, LARGE BOULDERS OR CONSTRUCTION WASTE OF ANY KIND.
3. THE RIPRAP SHALL BE PLACED ON 3–5" CRUSHED STONE.
4. THE SURFACE OF THE RIPRAP SHALL BE AS SMOOTH AS POSSIBLE ALL SLOPES TO BE LOAMED AND SEED EXCEPT WHERE SPECIFIED OTHERWISE.
5. RIPRAP & STONE FOR PIPE ENDS TO MEET MASS. D.P.W. SPECIFICATIONS M2.02.3.
6. THE BASIN SIDE SLOPE & BOTTOM SHALL BE PROVIDED WITH SIX INCHES OF LOAM/SEED AND SAND MIXTURE AT THE RATE OF TWO POUNDS RED TOP, FIFTEEN POUNDS CREEPING RED FESCUE AND TWENTY POUNDS TALL FESCUE PER ACRE AT NO TIME SHALL A SEED MIX CONSIST OF MORE THAN TEN PERCENT ANNUAL RYES.
7. THE SEDIMENT FOREBAY IS TO BE UTILIZED AS A TEMPORARY SEDIMENTATION BASIN DURING CONSTRUCTION. ONCE THE SITE IS STABILIZED, REMOVE ALL ACCUMULATED SEDIMENT IN THE BOTTOM OF THE FOREBAY ALONG WITH AN ADDITIONAL 18" OF SOIL BELOW THE DESIGN BASE ELEVATION. REPLACE WITH 12" OF CLEAN COARSE SAND AND GRAVEL FREE OF ORGANICS AND FINES ALONG WITH 6" OF LOAM AND SAND MIXTURE (SEE DETAIL).

GENERAL NOTES:

1. THERE ARE NO ESTIMATED OR PRIORITY HABITAT AREAS, AS DEFINED BY THE 2008 N.H.E.S.P. MAPS, WITHIN THE PROJECT AREA.
2. ALL STRUCTURES AND UTILITIES SHOWN ARE PROPOSED UNLESS OTHERWISE NOTED.
3. IT IS THE CONTRACTOR'S/DEVELOPER'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION AND UNTIL ROADWAY ACCEPTANCE.
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF FRANKLIN SUBDIVISION RULES AND REGULATIONS AND MASSACHUSETTS HIGHWAY STANDARD SPECIFICATIONS.
5. A MINIMUM OF 4" OF TOPSOIL IS TO BE REDISTRIBUTED ON SITE EXCEPT WITHIN ROADWAYS.

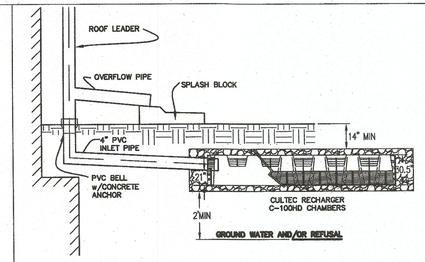
DRAINAGE NOTES:

1. DRAINAGE PIPING TO BE CLASS III REINFORCED CONCRETE PIPE AT ALL LOCATIONS HAVING AT LEAST 3.5 FEET OF COVER. CLASS V TO BE USED WHERE COVER IS LESS THAN 3 FEET. WHERE CLASS V PIPE IS NOTED TO BE USED, CLASS V PIPE SHALL BE INSTALLED FOR THE ENTIRE PIPE REACH (MANHOLE TO MANHOLE), NOT JUST THAT PORTION OF THE REACH WHERE THE COVER IS LESS THAN 3 FEET.
2. MINIMUM PIPE SLOPE SHALL BE 0.005 FT/FT (0.50%).
3. MINIMUM PIPE DIAMETER SHALL BE 12 INCHES. UNLESS OTHERWISE SHOWN, ALL CATCH BASIN LATERALS SHALL BE 12 INCHES IN DIAMETER.



TYPICAL RCP TRENCH SECTION

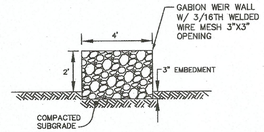
NOT TO SCALE



NOTES:
1. 18" MIN. WIDTH OF 1–2 INCH WASHED, CRUSHED STONE BORDER SURROUNDING ALL CHAMBERS.
2. 6" MIN. DEPTH OF 1–2 INCH WASHED, CRUSHED STONE ON TOP AND BOTTOM OF CHAMBERS
3. 4 BEDS OF 2 CHAMBERS EACH SHALL BE INSTALLED PER PROPOSED HOUSE. SEE PLAN FOR LOCATIONS AND CONFIGURATIONS.
4. CHAMBERS ARE TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS. SEE STORMWATER REPORT FOR INSTALLATION INSTRUCTIONS AND DETAILS.

ROOF LEADER/INFILTRATOR CONNECTION

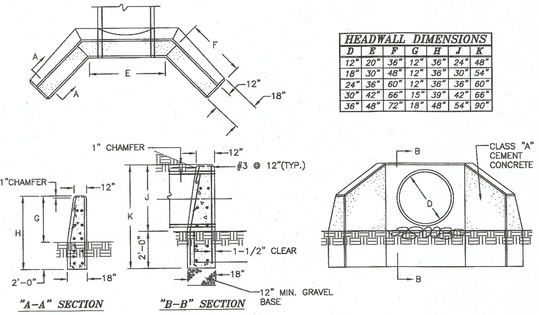
N.T.S.



NOTE:
1. WIRE SHALL BE GALFAN COATED (95% Zn/5% Al) ZGF255 SPEC.
2. GABIONS SHALL BE PROVIDED WITH BRACING WIRE AND HELICAL SPIRALS FOR ASSEMBLY. THE BRACING WIRE SHALL BE A NOMINAL OF 1.0" AND THE HELICALS OF 1.5" FOR FINAL JOINTING.
3. ROCK SHALL CONSIST OF HARD AND DURABLE NON FROST SUSCEPTIBLE (ROCK OR STONE TYPE) HAVING A MINIMUM DIMENSION NOT LESS THAN THE MESH OPENING AND A MAXIMUM OF 8". SHALL COMPLY WITH AS 2758.4–2000 AGGREGATE FOR GABION BASKETS AND WIRE MATTRESES.
4. ALL ROCK FILL SHALL BE LIGHTLY PACKED WITH A MINIMUM OF VOIDS (VOID RATIO TO BE LESS THAN 0.3)

GABION WEIR DETAIL

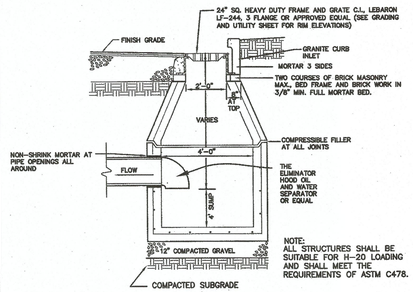
NOT TO SCALE



HEADWALL DIMENSIONS						
D	E	F	G	H	J	K
12"	20"	36"	12"	36"	24"	48"
18"	30"	48"	12"	36"	30"	54"
24"	36"	60"	12"	36"	36"	60"
30"	42"	66"	15"	39"	42"	66"
36"	48"	72"	18"	48"	54"	90"

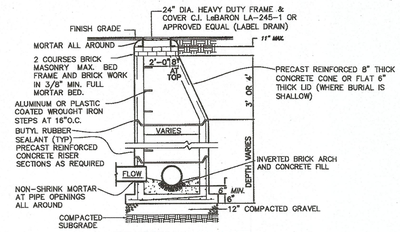
TYPICAL CONCRETE HEADWALL

NOT TO SCALE



TYP. PRECAST CONCRETE CATCH BASIN DETAIL

NOT TO SCALE



TYP. PRECAST CONCRETE MANHOLE STORM DRAIN

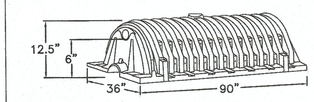
N.T.S.
NOTE:
ALL STRUCTURES SHALL BE SUITABLE FOR H-20 LOADING AND SHALL MEET THE REQUIREMENTS OF A.S.T.M. C478.

THE OWNER/CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE "CULTEC RECHARGER" (UNDERGROUND) DETENTION SYSTEM. THE INSTALLATION IS TO BE IN ACCORDANCE WITH CULTEC, INC. INSTRUCTIONS (SPECIFICATIONS). THE OWNER/CONTRACTOR IS TO MEET WITH CULTEC, INC. TO ORDER THE APPROPRIATE TYPE AND QUANTITY OF CHAMBERS (I.E. END UNITS, MIDDLE UNITS, ETC.)

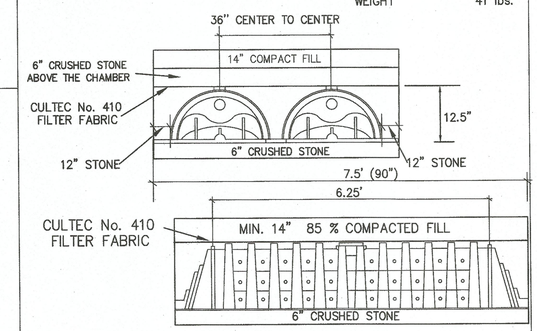
* * * DISTRIBUTORS * * *

CULTEC, INC.
878 FEDERAL ROAD
BROOKFIELD, CT 06804
(203) 775–4416

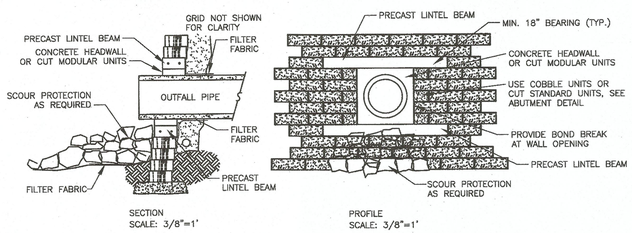
KURT S. MASTERS
RR1, BOX 692
MILAN, NH 03588
(603) 449–6797



LENGTH OF UNIT	7.5'
LAY UP LENGTH	6.5'
WIDTH	36"
HEIGHT	12.5"
CAPACITY	125 GAL.
WEIGHT	41 lbs.



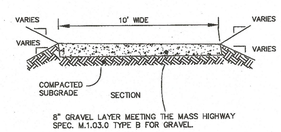
LINTEL NOTES:
- FINAL BEAM SIZE, REINFORCEMENT, AND CONFIGURATION TO BE DESIGNED BY WALL DESIGN ENGINEER
- LINTEL BEAMS SHALL BE PRECAST WITH MINIMUM 7 DAYS CURE
- HEIGHT OF BEAM SHALL CORRESPOND TO HEIGHT OF MODULAR UNITS
- PLACEMENT OF LINTEL BEAMS SHALL BE CONSISTENT WITH THE PLACEMENT OF OUTFALL PIPE
- INSTALL OUTFALL PIPE PRIOR TO CONSTRUCTION OF WALL ABOVE
- OUTFALL PIPE SHALL EXTEND BEYOND BASE COURSE OF WALL NO LESS THAN 6"
- GEOTEXTILE FABRIC SHALL BE INSTALLED AROUND PIPE OPENING
- LINTEL TO EXTEND MINIMUM 18" EITHER SIDE OF PIPE



SECTION
SCALE: 3/8"=1'

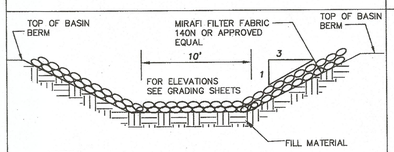
PROFILE
SCALE: 3/8"=1'

PIPE PENETRATION DETAIL
WALL TO BE DESIGNED BY OTHERS
SECTION
SCALE: 3/8"=1'



10 FOOT WIDE GRAVEL ACCESS ROAD

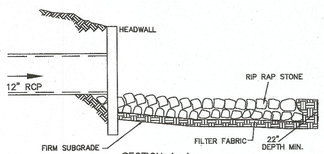
NOT TO SCALE



NOTES:
1. INSTALL FILTER MATERIAL BENEATH RIP RAP.
2. RIP RAP SHALL BE PER MHD SPEC M2.02.3 MINIMUM WEIGHT OF STONE = 50 LBS.; MAXIMUM WEIGHT = 125 LBS.
3. MINIMUM DEPTH OF RIP–RAP TO BE 12".
4. FILL MATERIAL SHALL BE AS NOTED IN EARTH BERM DETAIL.

RIP–RAP SPILLWAY DETAIL

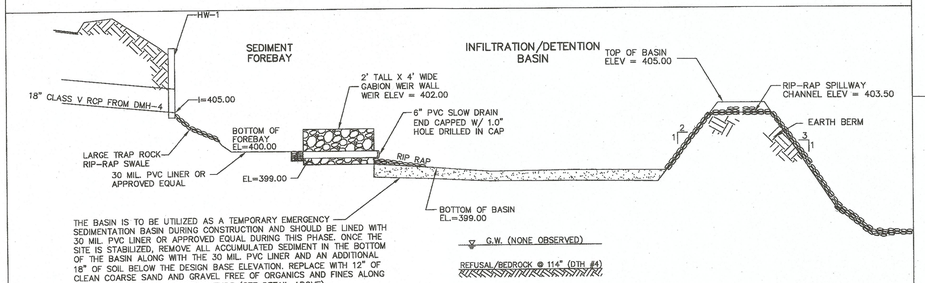
NOT TO SCALE



SECTION A–A
OUTLET

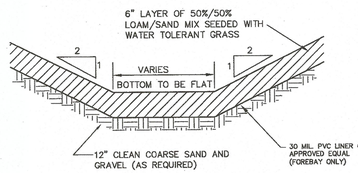
OUTFALL W/ RIPRAP APPRON

NOT TO SCALE



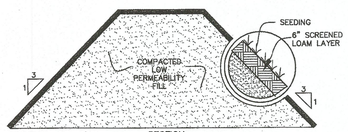
THE BASIN IS TO BE UTILIZED AS A TEMPORARY EMERGENCY SEDIMENTATION BASIN DURING CONSTRUCTION AND SHOULD BE LINED WITH 30 MIL PVC LINER OR APPROVED EQUAL DURING THIS PHASE. ONCE THE SITE IS STABILIZED, REMOVE ALL ACCUMULATED SEDIMENT IN THE BOTTOM OF THE BASIN ALONG WITH THE 30 MIL PVC LINER AND AN ADDITIONAL 18" OF SOIL BELOW THE DESIGN BASE ELEVATION. REPLACE WITH 12" OF CLEAN COARSE SAND AND GRAVEL FREE OF ORGANICS AND FINES ALONG WITH 6" OF LOAM AND SAND MIXTURE (SEE DETAIL ABOVE).

NOTE:
1. AREA BENEATH THE BASIN TO BE STRIPPED OF TOPSOIL AND SUBSOIL. REFER TO TEST PIT NOTED FOR ADDITIONAL INFORMATION.
2. BASIN TO BE REVIEWED BY ENGINEER TO ENSURE CONSTRUCTION IN COMPLIANCE WITH THE DESIGN PLANS.



CROSS SECTION
SEDIMENT FOREBAY &
INFILTRATION POND BOTTOM

NOT TO SCALE



SECTION

NOTES:
1. ALL WORK TO BE STAKED AND INSPECTED BY THE DESIGN ENGINEER.
2. AREA UNDER THE EMBANKMENT AND ANY STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
3. COMPACTED LOW PERMEABILITY FILL MATERIAL SHALL BE WELL GRADED, SILTY, GRAVELY SAND AND SHALL BE FREE OF STONES GREATER THAN 6" IN DIAMETER, ORGANIC MATTER, CONSTRUCTION DEBRIS, SNOW OR FROZEN SOIL. MATERIALS SHALL BE PLACED IN LAYERS NOT EXCEEDING 8" IN THICKNESS, AND SHALL BE COMPACTED.
4. S.C.S. APPROVED SEED MIX TO BE SPREAD AS SOON AS IS PRACTICAL TO MINIMIZE EROSION.

EARTH BERM

COMMONWEALTH OF MASSACHUSETTS
ROBERT J. DUFF
No. 40707
CIVIL
REGISTERED PROFESSIONAL ENGINEER
Robert J. Duff
8.19.21

F4410

APPROVED DATE:

FRANKLIN PLANNING BOARD

BEING A MAJORITY

LEGAL NOTES

UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS. MARKINGS AND OTHER OBSERVED EVIDENCE TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE. BEFORE EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. ADDITIONAL UTILITIES, NOT EVIDENCED BY RECORD DOCUMENTS OR OBSERVED PHYSICAL EVIDENCE, MAY EXIST. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING AND CALL DIGSAFE AT 1(888)DIG–SAFE{7233}.

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OWNER

KYLE McNAMARA
418 OLD RIVER ROAD
LINCOLN, RI 02838

DEED BOOK 38469 PAGE 40
ASSESSOR MAP 315, LOT 37

APPLICANT

NORTHEAST DEVELOPMENT GROUP
418 OLD RIVER ROAD
LINCOLN, RI 02838

DEFINITIVE SUBDIVISION PLAN OF LAND EASTERN WOOD ESTATES FRANKLIN MASSACHUSETTS

CONSTRUCTION DETAILS

AUGUST 17, 2021

DATE	REVISION DESCRIPTION

Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING
55 WEST CENTRAL ST.
FRANKLIN, MA 02038
PH. (508) 528–3221
FX. (508) 528–7921
www.gandhengineering.com

SHEET 10 OF 11

JOB NO. F4410

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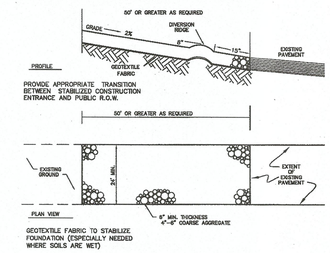
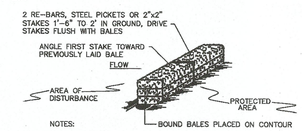
EROSION CONTROL NOTES:

1. TAKE EVERY PRECAUTION TO MINIMIZE AND CONTROL EROSION WITHIN THE PROJECT AREA.
2. STOCKPILES OF EXCAVATED MATERIALS AND EXPOSED CUT AND FILL SLOPES SHALL BE KEPT TO MINIMUM GRADIENTS WHENEVER POSSIBLE. THESE AREAS SHALL BE PROTECTED WITH HAY, MULCH, GRASS SEED OR COMBINATION OF THE ABOVE TO SLOW DOWN THE RATE OF SURFACE RUN-OFF AND TO REDUCE THE VOLUME OF SUSPENDED SOLIDS IN THE RUN OFF WATER.
3. SILTATION BARRIERS SHALL BE STAKED IN PLACE DOWN GRADIENT FROM ALL EXPOSED AREAS OR MATERIAL STORAGE AREAS IN ORDER TO REDUCE THE AMOUNT OF SUSPENDED SOLIDS IN RUNOFF WATER. THE EXACT LOCATION OF THE SILTATION BARRIERS MAY VARY FROM THAT SHOWN ON THE PLANS AND MAY BE ADJUSTMENT IN THE FIELD AS WORK PROGRESSES. SEDIMENTATION BUILDUP OVER SIX INCHES IN DEPTH THAT ACCUMULATES BEHIND THE SILTATION BARRIERS SHALL BE REMOVED. BARRIERS SHALL BE CHECKED AFTER EVERY STORM AND AT REGULAR WEEKLY INTERVALS.
4. SILTATION BARRIER SHALL BE INSTALLED WITH WOODEN STAKES IN ACCORDANCE WITH MANUFACTURER DIRECTIONS. BOTTOM 6 INCHES OF FABRIC SHALL BE TOED IN OR BACKFILLED SO THAT TOP OF FABRIC SHALL BE 2 FEET 6 INCHES ABOVE FINISH GRADE.
5. ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE LOAMED (4" MIN.) AND SEEDED IN ORDER TO MINIMIZE DUST AND EROSION.
6. FILTER FABRIC IS TO BE PLACED UNDER ALL RIP-RAP AREAS SHOWN ON DESIGN PLANS.
7. EROSION CONTROL BARRIERS ARE TO BE PLACED PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.
8. THE PROPOSED STORMWATER BASIN IS TO BE UTILIZED AS A SEDIMENTATION POND DURING CONSTRUCTION. IT IS TO BE CONSTRUCTED FIRST IN ORDER TO CONTROL/ PREVENT SILTATION FROM DISCHARGING FROM THE SITE AND/OR DISTURBING WETLAND AREAS.
9. ALL TEMPORARY SEDIMENT POND(S) AND SUMPS ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION, INSPECTED PRIOR TO AND AFTER STORM EVENTS AND CLEANED AS NEEDED.
10. TEMPORARY BERM SHALL BE PLACED ALONG THE ENTIRE EDGE OF ROADWAY WITH THE BINDER COURSE AND SHALL REMAIN IN PLACE UNTIL FINISH COURSE IS PLACED.



STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

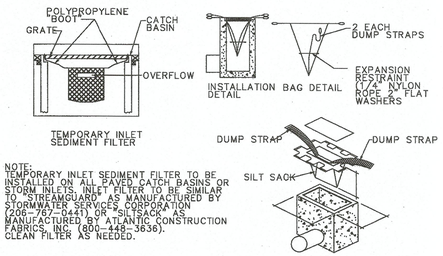
NOTE:
DRAINAGE AREA NO MORE THAN 1/4 AC. PER 100 FEET OF STRAW BALE DIKE FOR SLOPES LESS THAN 25%



NOTES:

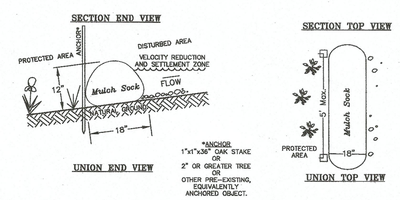
1. BALES SHALL BE PLACED AT THE TOP OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE PROMPT AND AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAW BALE DIKE DETAIL
N.T.S.



NOTE:
TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS OR STORM INLETS. INLET FILTER TO BE SIMILAR TO "STREAMGUARD" AS MANUFACTURED BY STORMWATER SERVICES CORPORATION (206-767-0441) OR "SILTSACK" AS MANUFACTURED BY "ATLANTIC CONSTRUCTION FABRICS, INC. (800-448-3636). CLEAN FILTER AS NEEDED.

SILT SACK DETAIL
NO SCALE



1. WHERE SECTION ENDS MEET, THERE SHALL BE AN OVERLAP OF 6" OR GREATER. BOTH SIDES SHALL BE ANCHORED (OAK STAKES, TREES, ETC.) TO STABILIZE THE UNION.
2. NO ADDITIONAL ANCHORS ARE REQUIRED ON SLOPES LESS THAT 2:1.
3. ADDITIONAL ANCHORS ARE REQUIRED AT 5' INTERVALS (MAX.) ON THE DOWNSLOPE OR PROTECTED SIDE ON SLOPES GREATER THAN 2:1 TO PREVENT MOVEMENT.

EROSION CONTROL BARRIER
NOT TO SCALE

***Mulch Sock* COMPONENTS:**

- OUTSIDE CASING: 100% organic hessian.
- FILLER INGREDIENT: ***FiberRoot Mulch***
  A blend of coarse and fine compost and shredded wood.
- Particle sizes: 100% passing a 3" screen; 90-100% passing a 1" screen; 70-100% passing a 0.75" screen; 30-75% passing a 0.25" screen.

Weight: Approx. 850 lbs./cu.yd.
(Ave. 30 lbs./l.f.)

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