

# SITE DEVELOPMENT PLAN

## "THE DOVER ROAD RESIDENCES"

### ASSISTED LIVING COMMUNITY

### MILLIS, MASSACHUSETTS

DATE: MARCH 7, 2016  
 REVISED: MAY 10, 2016  
 REVISED: JUNE 8, 2016

APPROVED BY THE  
MILLIS PLANNING BOARD:

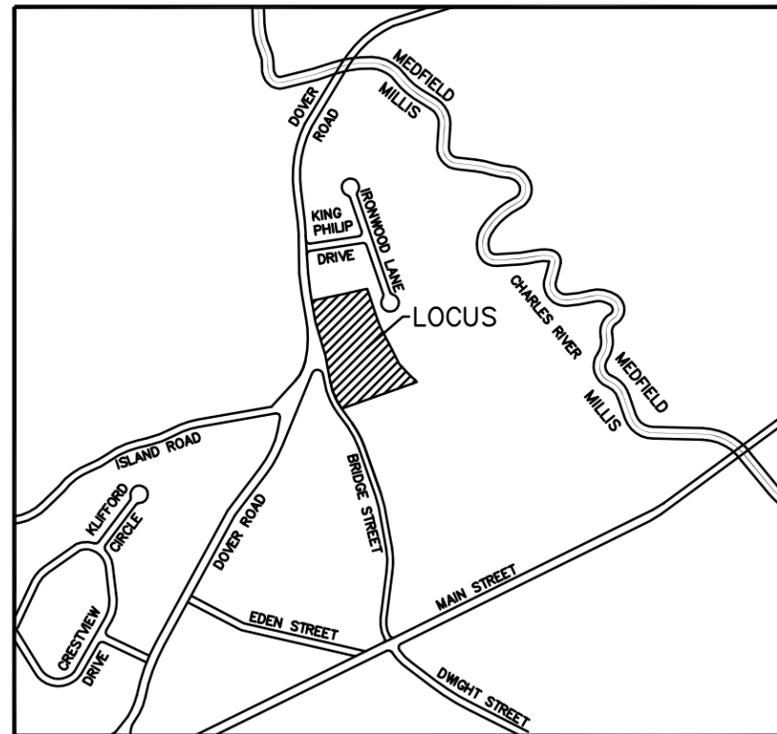
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DATE APPROVED: \_\_\_\_\_

DATE ENDORSED: \_\_\_\_\_

I, TOWN CLERK OF THE TOWN OF MILLIS,  
 RECEIVED & RECORDED FROM THE PLANNING  
 BOARD APPROVAL OF THIS PLAN AND NO  
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 NEXT AFTER RECEIPT AND RECORDING OF SAME.

\_\_\_\_\_  
 TOWN CLERK                      DATE



**ZONING DATA:**

RESIDENCE (R-S)

	REQUIRED	PROVIDED
LOT AREA:	25,000 S.F.	335,291 ± S.F. (7.697±) ACRES)
FRONTAGE:	125 FT.	DOVER RD: 390.18 FT. BRIDGE ST: 384.22 FT.
LOT DEPTH:	200 FT.	400 + FT.
<b>SETBACKS:</b>		
FRONT:	40 FT.	77.9' (MAIN BLDG) 42.9' (COTTAGE)
SIDE:	20 FT.	88.3' (MAIN BLDG) 30.2' (COTTAGE)
REAR:	40 FT.	114.9' (MAIN BLDG) 58.0 (COTTAGE)

PERIMETER TO AREA RATIO: <0.08  
(PERIMETER)/(LOT AREA) < 0.08  
 (2437.61 S.F.)/(335,291 S.F.) = 0.007

LOT COVERAGE ALLOWED:  
 BUILDING: 25% (83,822 S.F.)

LOT COVERAGE PROVIDED:  
 MAIN BUILDING: 64,369 S.F.  
 COTTAGES: 15,645 S.F.  
 ACCESSORY: 1,376 S.F.  
 TOTAL: 81,390 S.F. (24.3%)

**PARKING SCHEDULE:**

REQUIRED: ONE (1) SPACES PER UNIT

PROPOSED 93 UNITS

PARKING PROVIDED:  
 HANDICAP: 10 SPACES  
 STANDARD: 83 SPACES  
 TOTAL: 93 SPACES

ASSESSOR REFERENCE:  
 MAP 18, PARCELS 4

DEED REFERENCE:  
 BOOK 33557, PAGE 308

PLAN REFERENCE:  
 NORFOLK COUNTY REGISTRY OF DEEDS  
 PLAN No. 755 OF 1977, PL. Bk. 262  
 PLAN No. 841 OF 1956, BK 3483, PG 250

**PREPARED BY:**

**GLM ENGINEERING**  
 CONSULTANTS, INC.

19 EXCHANGE STREET

HOLLISTON, MASSACHUSETTS 01746

(508)429-1100      fax:(508)429-7160

**OWNER:**

DOVER ROAD LLC  
 34 BRIDGE STREET  
 MILLIS, MASSACHUSETTS 02054

**APPLICANT:**

BARBERRY HOMES, LLC  
 10 SPEEN STREET, 4TH FLOOR  
 FRAMINGHAM, MASSACHUSETTS 01701

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IRONWOOD LANE

N/F  
MATTHEW & JESSICA KEPPLER  
6 IRONWOOD LANE

N/F  
SUSAN H. STEELE  
4 IRONWOOD LANE

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REVISIONS

No.	DATE	DESCRIPTION
1	05/10/16	BETA COMMENTS
2	06/08/16	BETA COMMENTS

JOYCE E. HASTINGS P.L.S.

JOSEPH M. NIHILL P.E.

"THE DOVER ROAD RESIDENCES"  
BRIDGE STREET  
MILLIS, MASSACHUSETTS

PREPARED FOR:  
BARBERRY HOMES  
10 SPEEN STREET  
FRAMINGHAM, MA

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FRAMINGHAM, MA

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DRW.: 15664-Site Plan

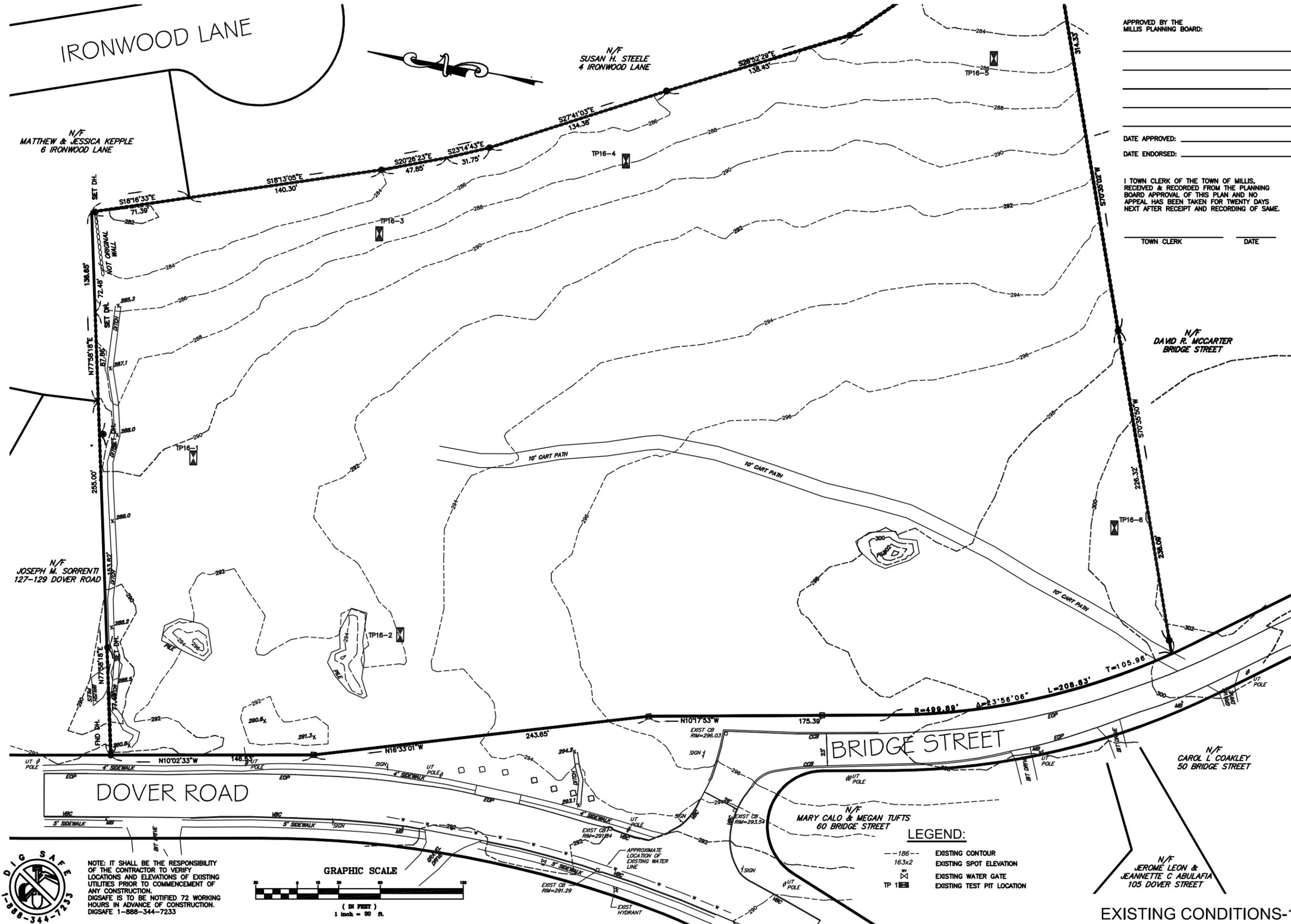
JOB No. 15664

DATE: 03/07/16

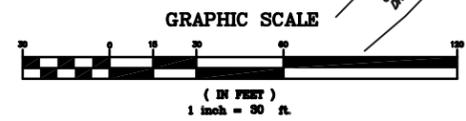
SCALE: 1"=30'

SHEET: C-3

PLAN #: 27,016



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DIGSAFE IS TO BE NOTIFIED 72 WORKING  
HOURS IN ADVANCE OF CONSTRUCTION.  
DIGSAFE 1-888-344-7233



- LEGEND:**
- 186 --- EXISTING CONTOUR
  - 16.3x2 EXISTING SPOT ELEVATION
  - WV EXISTING WATER GATE
  - TP 186 EXISTING TEST PIT LOCATION

EXISTING CONDITIONS-1



IRONWOOD LANE

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JOSEPH M. NIHILL P.E.

N/F  
DAVID R. MCCARTER  
BRIDGE STREET

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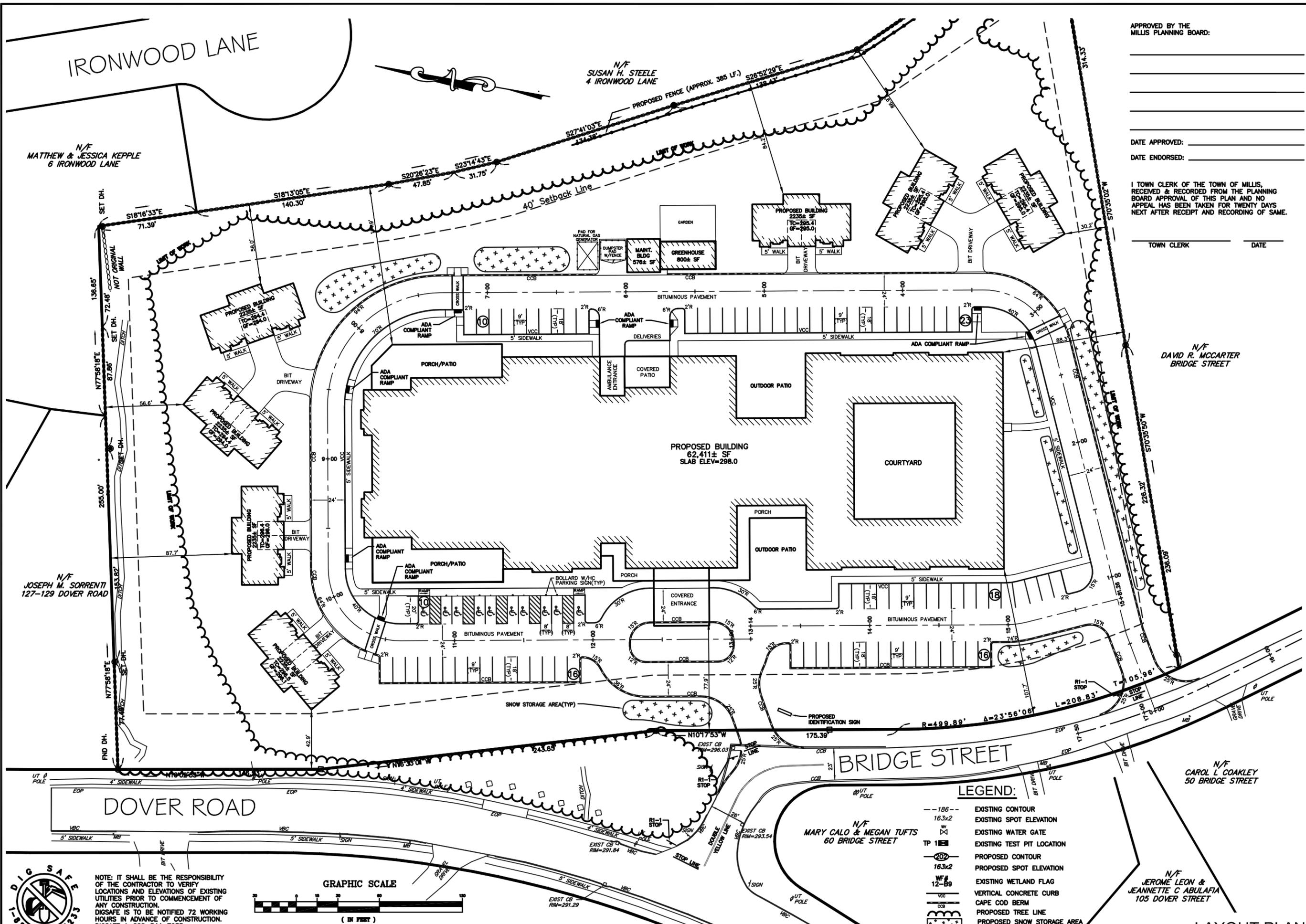
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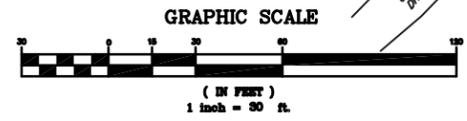
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SHEET: C-5

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LEGEND:

---	EXISTING CONTOUR
16.3x2	EXISTING SPOT ELEVATION
⊗	EXISTING WATER GATE
TP 1	EXISTING TEST PIT LOCATION
16.3x2	PROPOSED CONTOUR
WF# 12-B9	PROPOSED SPOT ELEVATION
VCC	EXISTING WETLAND FLAG
CCB	VERTICAL CONCRETE CURB
⊕	CAPE COD BERM
⊕	PROPOSED TREE LINE
⊕	PROPOSED SNOW STORAGE AREA

LAYOUT PLAN

IRONWOOD LANE

N/F  
MATTHEW & JESSICA KEPPLER  
6 IRONWOOD LANE

N/F  
SUSAN H. STEELE  
4 IRONWOOD LANE

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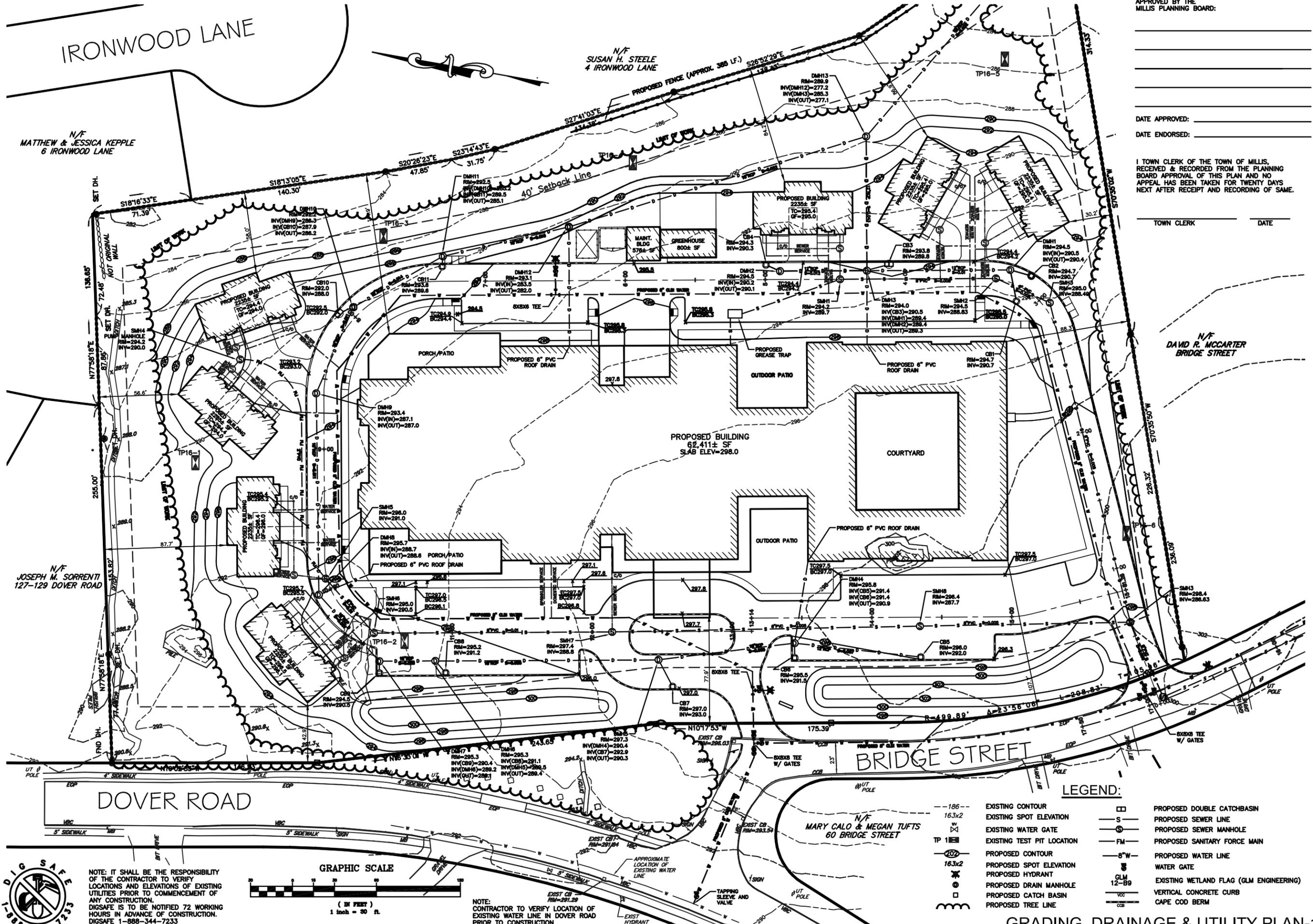
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SHEET: C-6  
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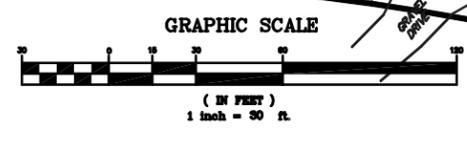


**LEGEND:**

--- 186 ---	EXISTING CONTOUR	□	PROPOSED DOUBLE CATCHBASIN
16.3x2	EXISTING SPOT ELEVATION	S	PROPOSED SEWER LINE
⊗	EXISTING WATER GATE	⊗	PROPOSED SEWER MANHOLE
TP 1	EXISTING TEST PIT LOCATION	FM	PROPOSED SANITARY FORCE MAIN
16.3x2	PROPOSED CONTOUR	8"W	PROPOSED WATER LINE
⊗	PROPOSED SPOT ELEVATION	⊗	WATER GATE
⊗	PROPOSED HYDRANT	GLM	EXISTING WETLAND FLAG (GLM ENGINEERING)
⊗	PROPOSED DRAIN MANHOLE	12-89	VERTICAL CONCRETE CURB
□	PROPOSED CATCH BASIN	CB	CAPE COD BERM
⊗	PROPOSED TREE LINE		

**DIGSAFE**

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NOTE: CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER LINE IN DOVER ROAD PRIOR TO CONSTRUCTION

GRADING, DRAINAGE & UTILITY PLAN-1

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- NOTE:
- A REPRESENTATIVE OF THE PLANNING BOARD SHALL HAVE THE RIGHT TO ENTER THE PROPERTY AT A REASONABLE TIME AND MANNER FOR THE PURPOSE OF INSPECTION.
  - AREAS DISTURBED TO CONSTRUCT THE CROSS COUNTRY DRAINAGE NETWORK SHALL BE SEEDED WITH "NEW ENGLAND CONSERVATION/WILDLIFE MIX" OR APPROVED EQUAL.
  - AREAS DISTURBED TO CONSTRUCT THE SEDIMENT FOREBAY AND INFILTRATION BASIN SHALL BE LOAMED AND SEEDED.

"NEW ENGLAND CONSERVATION/WILDLIFE MIX SPECIES:  
BIG BLUESTEM (ANDROPOGON GERARDI), FRINGED BROOME GRASS (BROMUS CILIATUS), CREEPING RED FESCUE (FESTUCA RUBRA), CANADA WILD RYE (ELYMUS CANADENSIS), VIRGINIA WILD RYE (ELYMUS VIRGINICUS), SWITCHGRASS (PANICUM VIRGATUM), DEER TONGUE (PANICUM CLAUDESTINUM), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARILUM), INDIAN GRASS (SORGHASTRUM NUTANS), COMMON MILKWEED (ASCLEPIAS SYRIACA), NEW ENGLAND ASTER (ASTER NOVAE-ANGLAE), PATRIOTE PEA (RHAMNUS FASCICULATA), SHOWY TICK-TREFOIL (DESMODIUM CANADENSE), GRASS LEAVED GOLDENROD (EUTHAMIA GRAMINIFOLIA), GRAY GOLDENROD (SOLIDAGO MEMORIALIS).

DEEP OBSERVATION HOLE LOGS

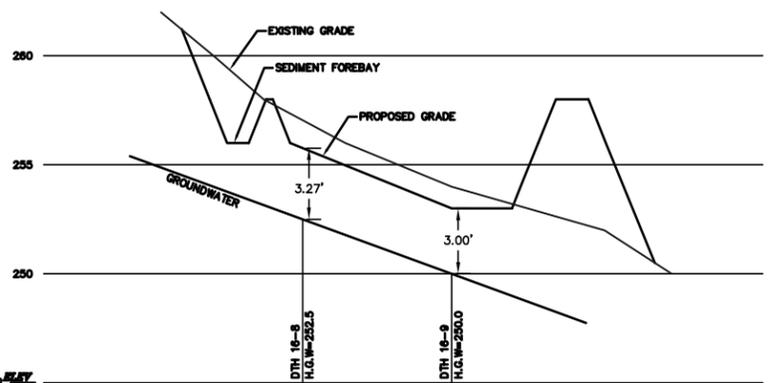
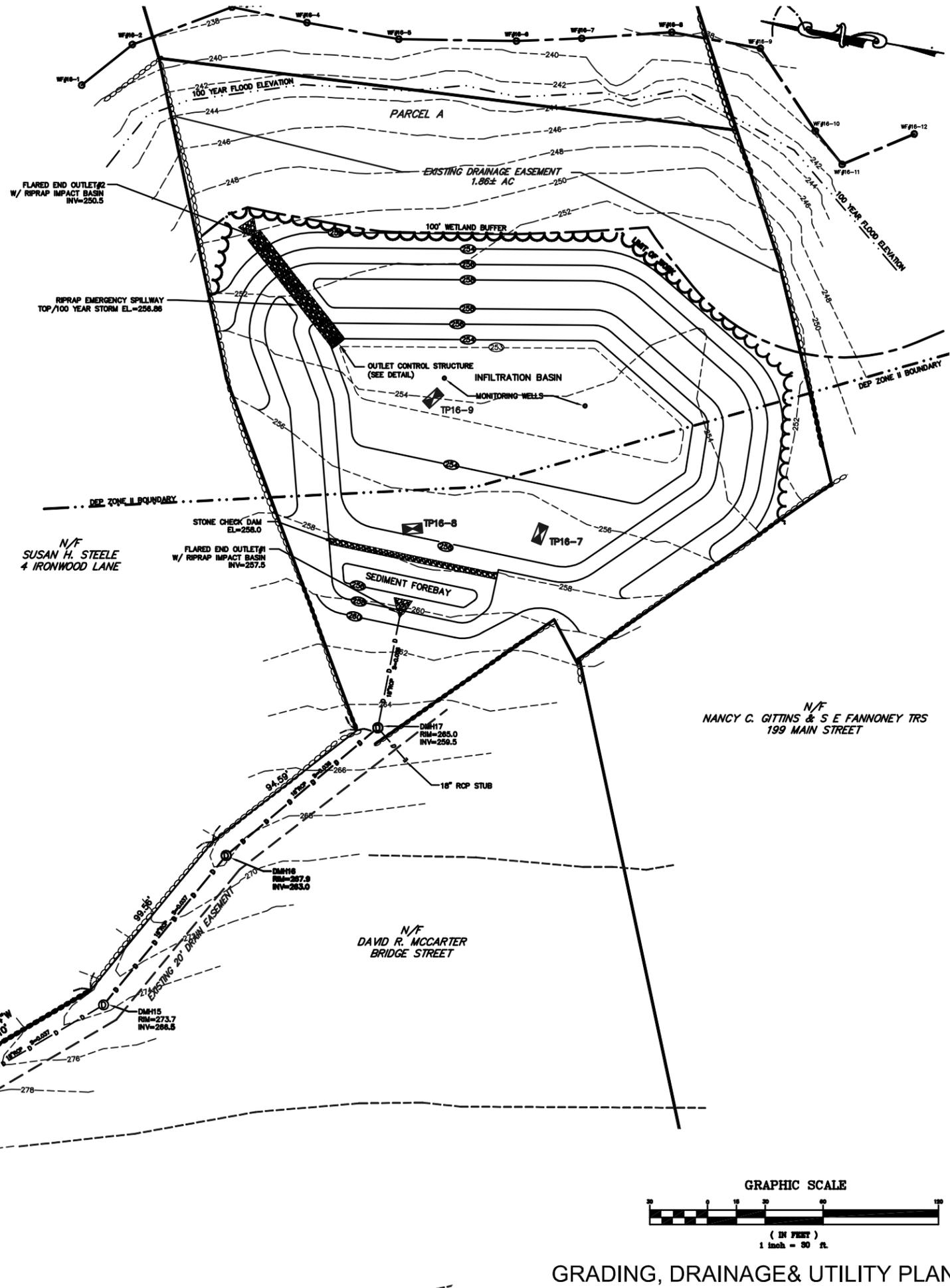
DEEP HOLE - 16-1			DEEP HOLE - 16-2			DEEP HOLE - 16-3		
HORIZ DEPTH	DATE 1/18/18	ELEV.	HORIZ DEPTH	DATE 1/18/18	ELEV.	HORIZ DEPTH	DATE 1/18/18	ELEV.
0"	A SANDY LOAM 10W3/2	290.3	0"	A SANDY LOAM 10W3/2	292.0	0"	A SANDY LOAM 10W3/2	287.0
10"	Bw SANDY LOAM 10W3/2	289.4	14"	Bw SANDY LOAM 10W3/2	290.9	6"	Bw SANDY LOAM 10W3/2	288.5
28"	C SANDY LOAM 2.9W/4	287.9	30"	C SANDY LOAM 2.9W/4	289.5	24"	C SANDY LOAM 2.9W/4	285.0
90"	GROUNDWATER OBSERVED	282.0	90"	GROUNDWATER OBSERVED	284.5	110"	GROUNDWATER OBSERVED	277.8
28"	SOIL MOTTLED	287.9	30"	SOIL MOTTLED	289.5		SOIL MOTTLED	
28"	GROUNDWATER MONITORED		30"	GROUNDWATER MONITORED			GROUNDWATER MONITORED	
28"	ESTIMATED SEASONAL HIGH GROUNDWATER	287.9	30"	ESTIMATED SEASONAL HIGH GROUNDWATER	289.5		ESTIMATED SEASONAL HIGH GROUNDWATER	

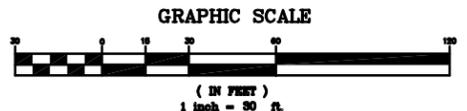
DEEP HOLE - 16-4			DEEP HOLE - 16-5			DEEP HOLE - 16-6		
HORIZ DEPTH	DATE 1/18/18	ELEV.	HORIZ DEPTH	DATE 1/18/18	ELEV.	HORIZ DEPTH	DATE 1/18/18	ELEV.
0"	A SANDY LOAM 10W3/2	288.0	0"	A SANDY LOAM 10W3/2	285.8	0"	A SANDY LOAM 10W3/2	301.0
6"	Bw SANDY LOAM 10W3/2	287.5	6"	Bw SANDY LOAM 10W3/2	285.0	6"	Bw SANDY LOAM 10W3/2	300.5
28"	C SANDY LOAM 2.9W/4	285.8	28"	C SANDY LOAM 2.9W/4	283.5	28"	C SANDY LOAM 2.9W/4	298.8
90"	GROUNDWATER OBSERVED	280.5	92"	GROUNDWATER OBSERVED	277.8	120"	GROUNDWATER OBSERVED	291.0
28"	SOIL MOTTLED	285.8	28"	SOIL MOTTLED	283.5	40"	SOIL MOTTLED	287.7
28"	GROUNDWATER MONITORED		28"	GROUNDWATER MONITORED		40"	GROUNDWATER MONITORED	
28"	ESTIMATED SEASONAL HIGH GROUNDWATER	285.8	28"	ESTIMATED SEASONAL HIGH GROUNDWATER	283.5	40"	ESTIMATED SEASONAL HIGH GROUNDWATER	287.7

DEEP HOLE - 16-7			DEEP HOLE - 16-8			DEEP HOLE - 16-9		
HORIZ DEPTH	DATE 2/2/18	ELEV.	HORIZ DEPTH	DATE 2/2/18	ELEV.	HORIZ DEPTH	DATE 2/2/18	ELEV.
0"	A SANDY LOAM	298.8	0"	A SANDY LOAM 10W3/2	297.0	0"	A SANDY LOAM 10W3/2	294.0
8"	Bw SANDY LOAM	296.1	8"	Bw SANDY LOAM 10W3/2	296.3	8"	Bw SANDY LOAM 10W3/2	293.3
28"	C1 FINE-MED SAND 30% GRAVEL	294.5	28"	C1 FINE-MED SAND 30% GRAVEL	292.5	24"	C1 FINE-MED SAND 30% GRAVEL	292.0
58"	C2 MED-COARSE SAND 30% GRAVEL	292.1	54"	C2 MED-COARSE SAND 30% GRAVEL	282.5	48"	C2 MED-COARSE SAND 30% GRAVEL	290.0
104"	GROUNDWATER OBSERVED	248.1	104"	GROUNDWATER OBSERVED	248.3	108"	GROUNDWATER OBSERVED	245.0
58"	SOIL MOTTLED	292.1	98"	SOIL MOTTLED	248.0	78"	SOIL MOTTLED	247.7
58"	GROUNDWATER MONITORED		84"	GROUNDWATER MONITORED	282.5	48"	GROUNDWATER MONITORED	290.0
58"	ESTIMATED SEASONAL HIGH GROUNDWATER	288.1	54"	ESTIMATED SEASONAL HIGH GROUNDWATER	288.0	48"	ESTIMATED SEASONAL HIGH GROUNDWATER	288.0



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GRADING, DRAINAGE & UTILITY PLAN-2

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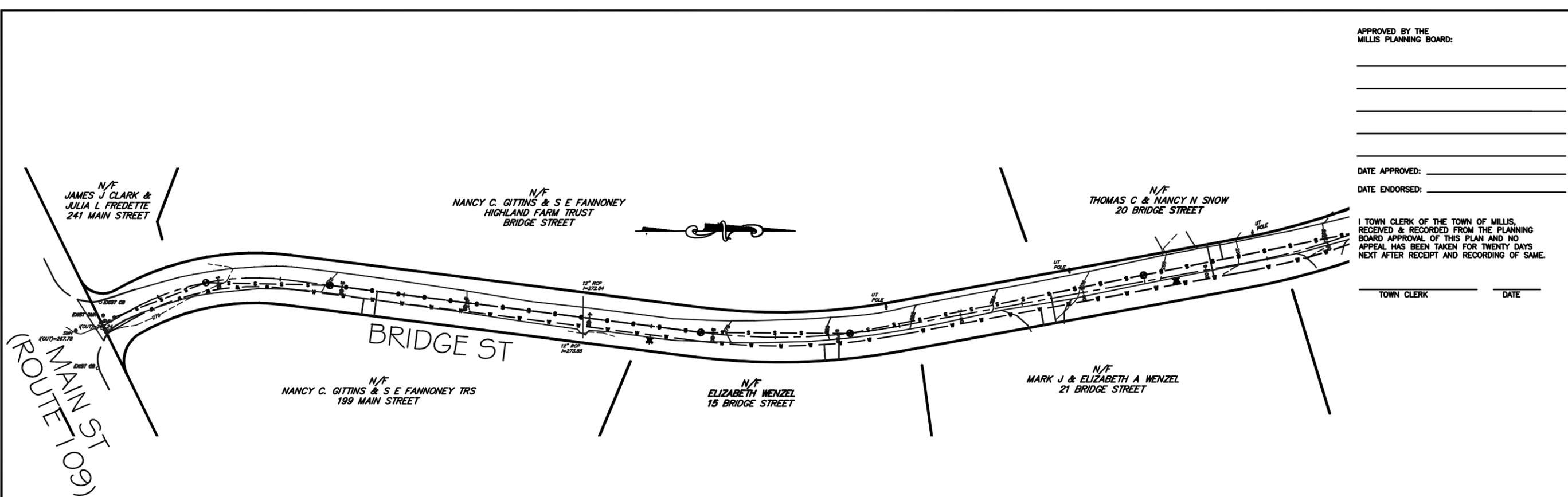
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ROUTE 109  
MAIN ST

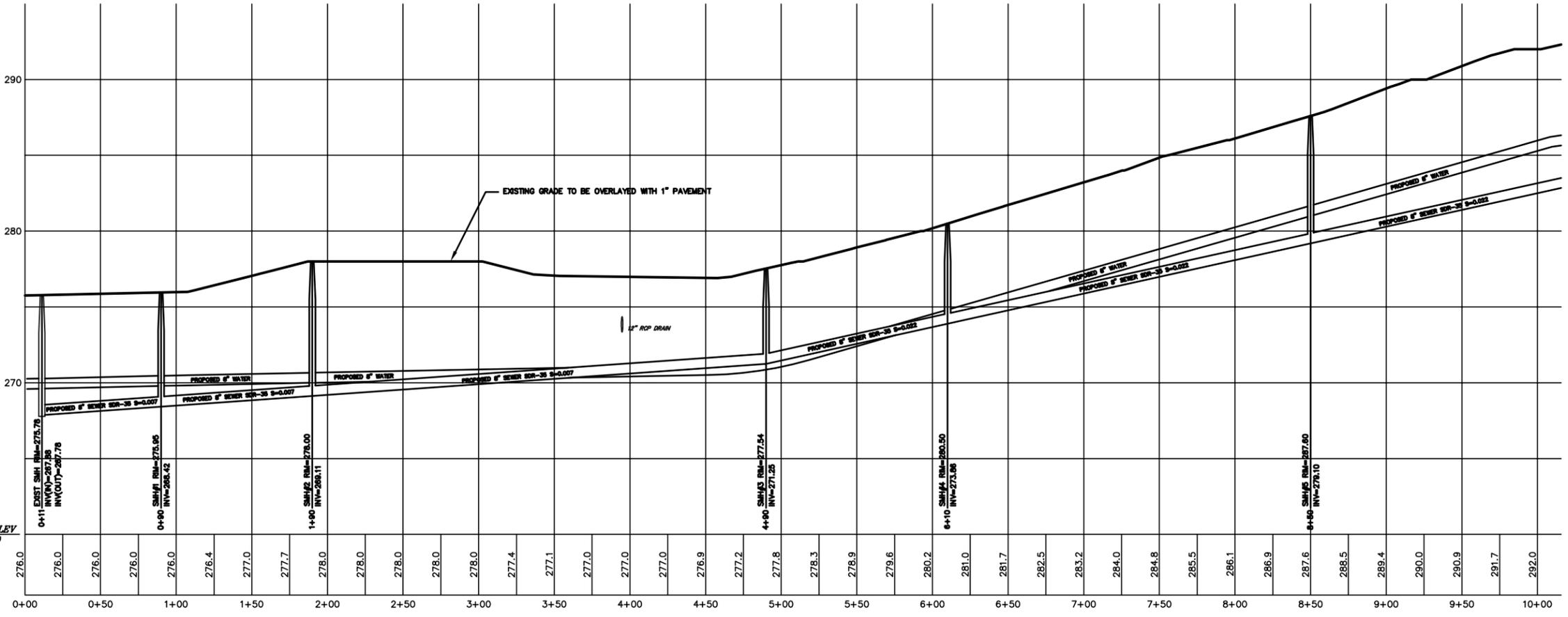
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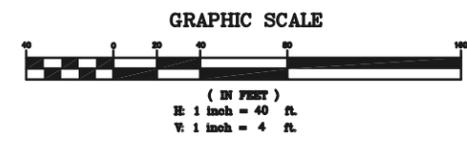
DATE: 06/08/16

JOYCE E. HASTINGS P.L.S.

JOSEPH M. NIHILL P.E.



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BRIDGE STREET PLAN & PROFILE-1

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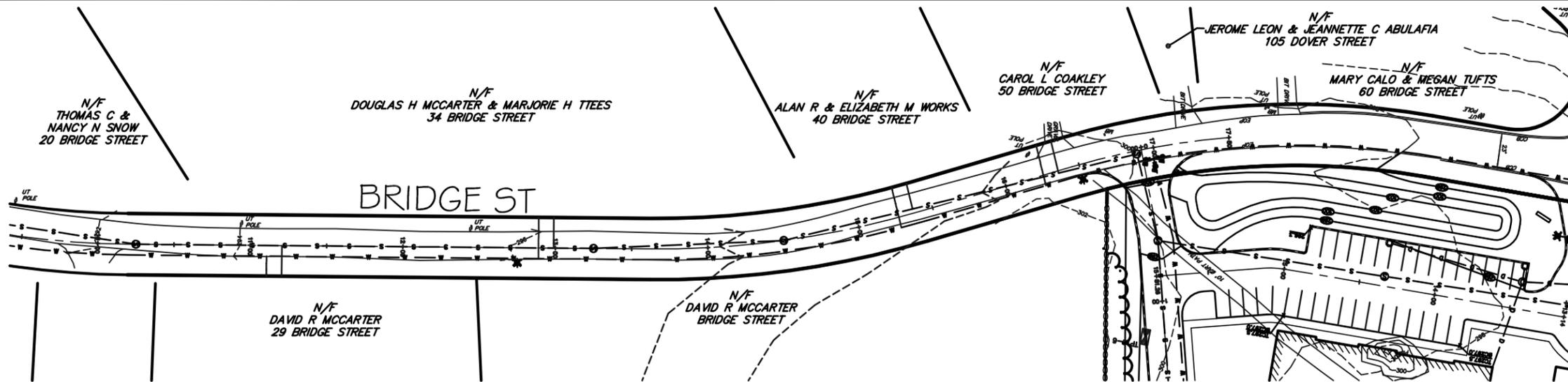
JOB No. 15664

DATE: 03/07/16

SCALE: 1"=40'

SHEET: C-8

PLAN #: 27,016



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FRAMINGHAM, MA

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BARBERRY HOMES  
10 SPEEN STREET  
FRAMINGHAM, MA

**GLM** Engineering  
Consultants, Inc.  
19 EXCHANGE STREET  
HOLLISTON, MA 01746  
P: 508-429-1100  
F: 508-429-7160  
www.GLMengineering.com

DRW.: 15664-Site Plan

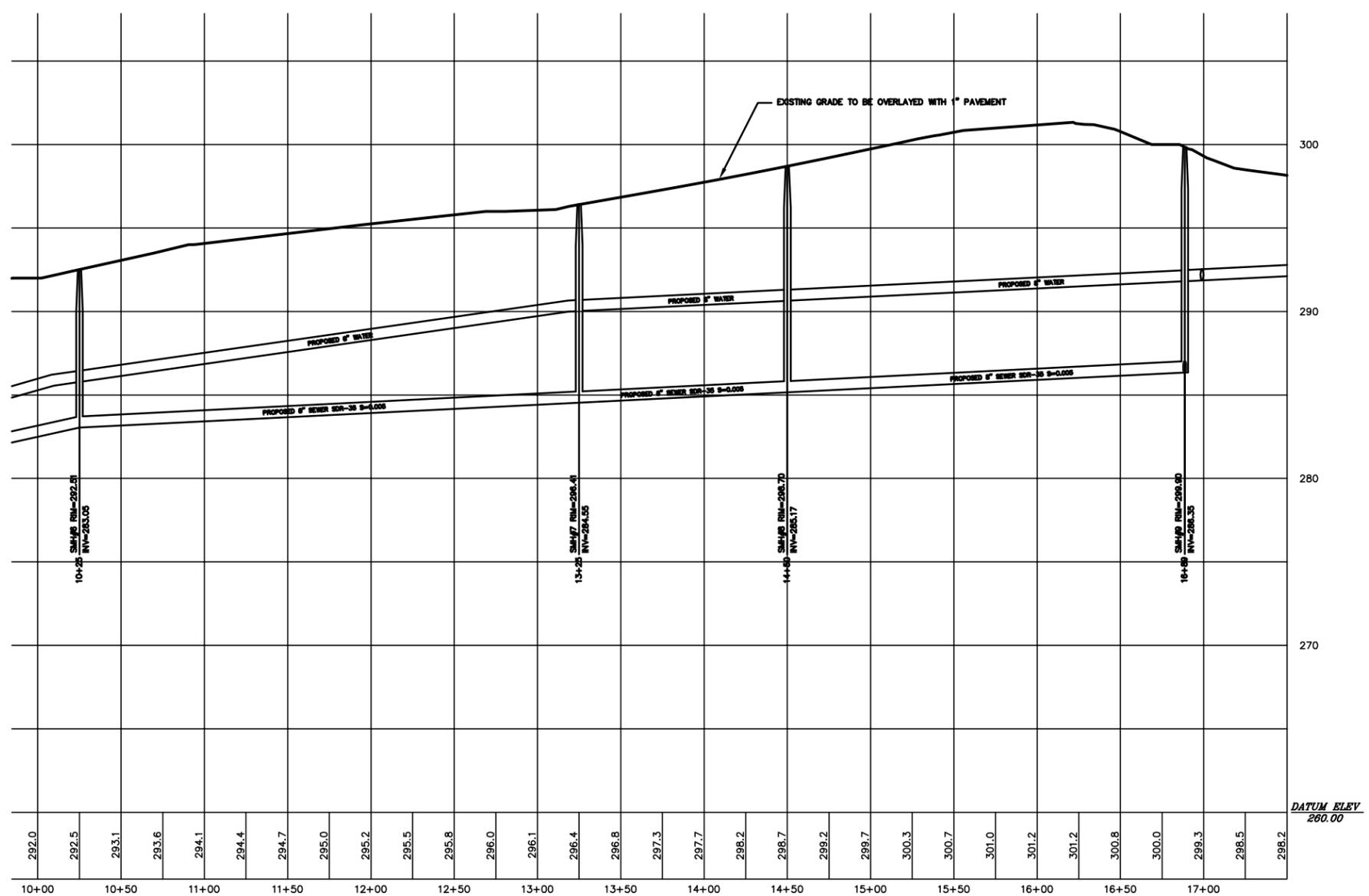
JOB No. 15664

DATE: 03/07/16

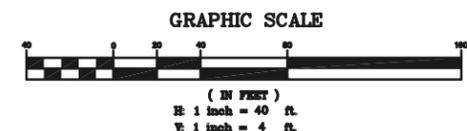
SCALE: 1"=40'

SHEET: C-9

PLAN #: 27,016



NOTE: 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 WORKING  
HOURS IN ADVANCE OF CONSTRUCTION.  
DIGSAFE 1-888-344-7233



BRIDGE STREET PLAN & PROFILE-2

IRONWOOD LANE

N/F  
MATTHEW & JESSICA KEPPLER  
6 IRONWOOD LANE

N/F  
SUSAN H. STEELE  
4 IRONWOOD LANE

APPROVED BY THE  
MILLIS PLANNING BOARD:

DATE APPROVED: \_\_\_\_\_

DATE ENDORSED: \_\_\_\_\_

I TOWN CLERK OF THE TOWN OF MILLIS,  
RECEIVED & RECORDED FROM THE PLANNING  
BOARD APPROVAL OF THIS PLAN AND NO  
APPEAL HAS BEEN TAKEN FOR TWENTY DAYS  
NEXT AFTER RECEIPT AND RECORDING OF SAME.

TOWN CLERK \_\_\_\_\_

DATE \_\_\_\_\_

REVISIONS

No. DATE DESCRIPTION

1 05/10/16 BETA COMMENTS

2 06/08/16 BETA COMMENTS

JOYCE E. HASTINGS P.L.S.

JOSEPH M. NIHILL P.E.

"THE DOVER ROAD RESIDENCES"  
BRIDGE STREET  
MILLIS, MASSACHUSETTS

PREPARED FOR:  
BARBERRY HOMES  
10 SPEEN STREET  
FRAMINGHAM, MA

PREPARED FOR:  
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DRW.: 15664-Site Plan

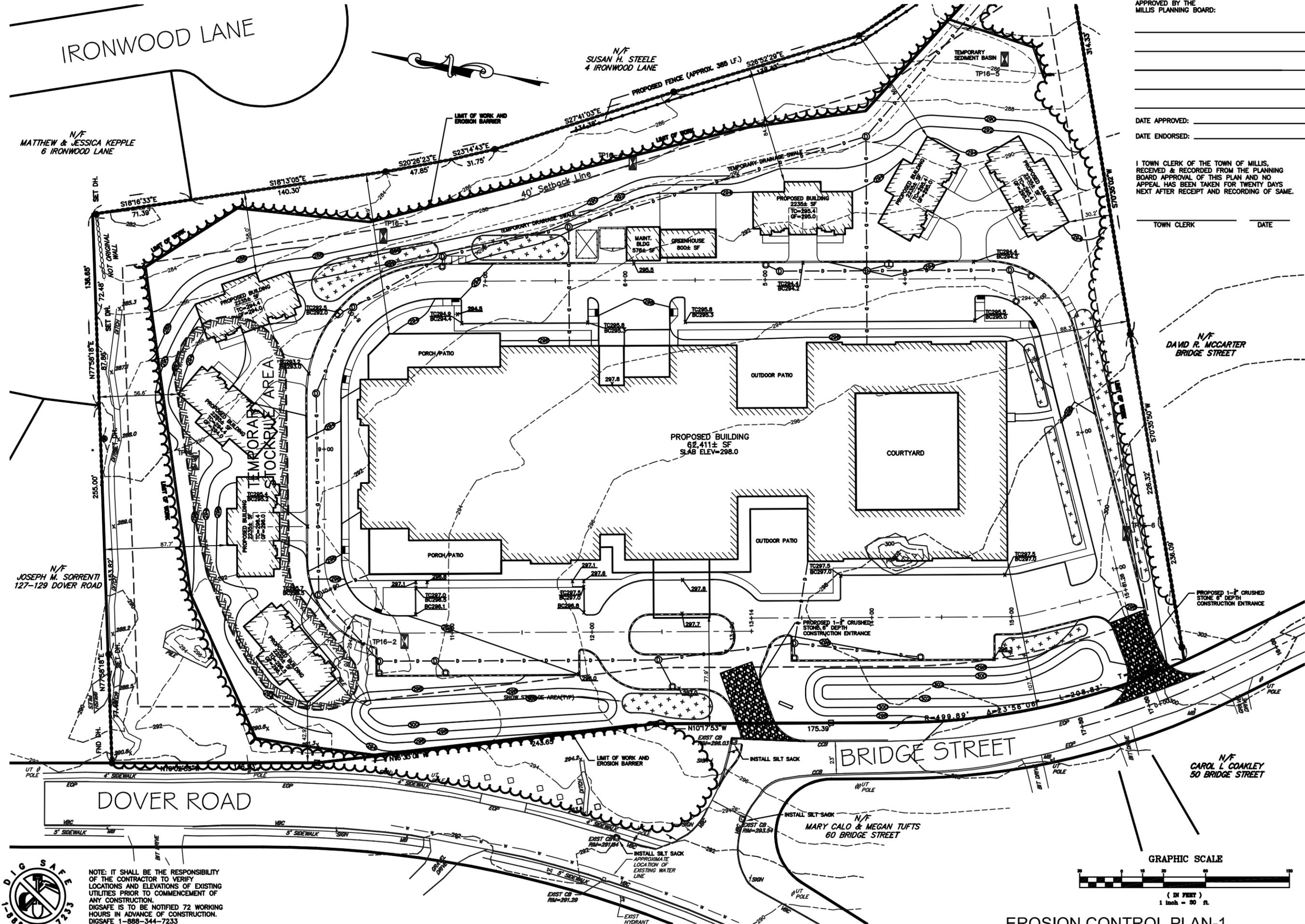
JOB No. 15664

DATE: 03/07/16

SCALE: 1"=30'

SHEET: C-10

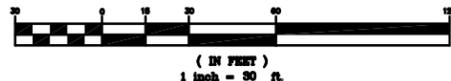
PLAN #: 27,016



DOVER ROAD

BRIDGE STREET

GRAPHIC SCALE



EROSION CONTROL PLAN-1



NOTE: IT SHALL BE THE RESPONSIBILITY  
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DIGSAFE 1-888-344-7233

APPROVED BY THE  
MILLIS PLANNING BOARD:

DATE APPROVED: \_\_\_\_\_

DATE ENDORSED: \_\_\_\_\_

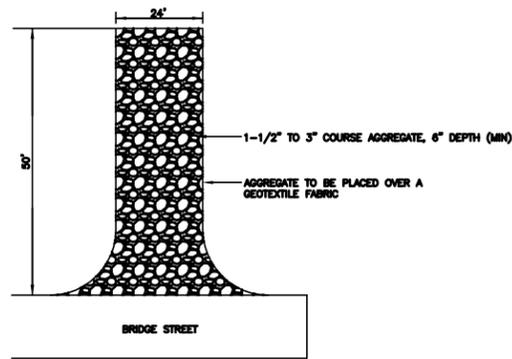
I, TOWN CLERK OF THE TOWN OF MILLIS,  
RECEIVED & RECORDED FROM THE PLANNING  
BOARD APPROVAL OF THIS PLAN AND NO  
APPEAL HAS BEEN TAKEN FOR TWENTY DAYS  
NEXT AFTER RECEIPT AND RECORDING OF SAME.

TOWN CLERK \_\_\_\_\_ DATE \_\_\_\_\_

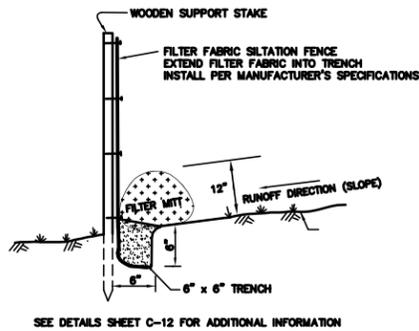
**EROSION CONTROL NOTES**

THE FOLLOWING EROSION CONTROL SPECIFICATIONS ARE IN EFFECT WHEN SITE ALTERATION WORK IS  
CONTEMPLATED TO PREVENT DOWN GRADIENT OR ADJACENT AREAS FROM BEING ADVERSELY IMPACTED.

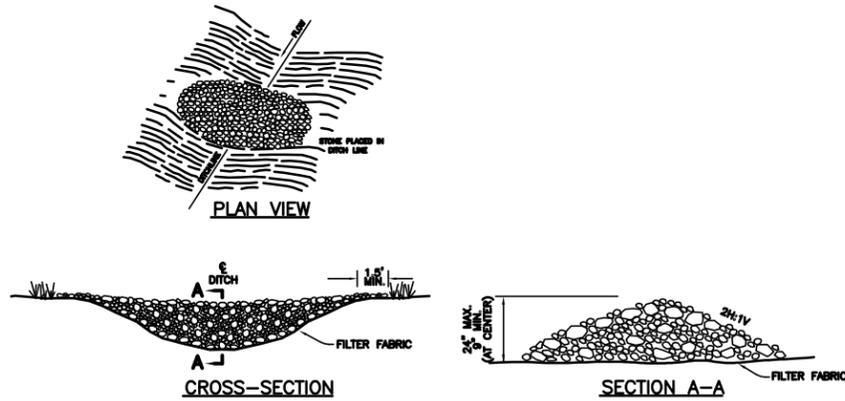
1. PRIOR TO ANY DISTURBANCE OR ALTERATIONS ON ANY AREA ON THE SITE, THE FILTER MITT  
SEDIMENT BARRIER SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE SITE PLAN.
  2. BARRIERS SHALL BE CONSTRUCTED AS SHOWN ON THE FILTER MITT WITH SILT FENCE DETAIL ABOVE.
  3. ONCE INSTALLED, THE FILTER MITT SEDIMENT BARRIERS SHALL BE MAINTAINED IN PLACE UNTIL ALL  
AREAS UPGRADIENT FROM THE BARRIERS HAVE BEEN STABILIZED AS SPECIFIED HEREIN. UPON  
COMPLETION AND STABILIZATION OF THE PROJECT, THE FILTER MITT AND CONSTRUCTION FENCE SHALL  
BE REMOVED.
  4. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED OR WHERE SPECIAL STABILIZATION MEASURES  
OR LANDSCAPE PLANTINGS ARE NOT PROPOSED SHALL BE LOAMED AND SEEDED. NO LESS THAN FOUR  
INCHES OF LOAM TOPSOIL SHALL BE SPREAD AND THE AREA SEEDED WITH CONSERVATION MIX.
  5. ALL AREAS OUTSIDE THE LIMIT OF WORK ARE TO BE LEFT UNDISTURBED. DURING SITE WORK ALL  
PERSONS AND EQUIPMENT SHALL STAY OUTSIDE THESE AREAS TO PRESERVE THE EXISTING  
VEGETATION.
  6. ALL SLOPES CAUSED BY EXCAVATION OF EXISTING GROUND, OR FILL OVER EXISTING GROUND TO  
CREATE BERMS OF EARTH MATERIALS OR RESULTING FROM RECONTOURING LAND FOR PROPOSED  
HOUSE LOCATIONS SHALL BE NO GREATER THAN 3:1 HORIZONTAL TO VERTICAL. THE TOE OF SLOPES  
IN FILL AREAS OR TOP OF SLOPE IN EXCAVATED AREAS SHALL BE NO CLOSER THAN 5 FEET FROM  
ADJACENT LOT LINES.
  7. A COPY OF THE SWPPP SHALL BE SUBMITTED TO THE TOWN FOR REVIEW AND COMMENT PRIOR TO  
CONSTRUCTION.
- A MORE DETAILED SEDIMENT AND EROSION CONTROL PLAN WILL BE DEVELOPED AS PART OF THE  
NPDES STORMWATER POLLUTION PREVENTION PLAN.



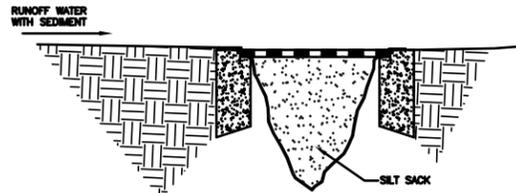
**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE



**FILTER MITT WITH  
CONSTRUCTION FENCE DETAIL**  
NOT TO SCALE



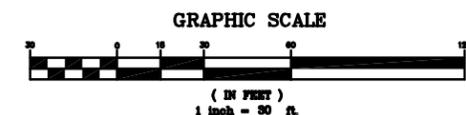
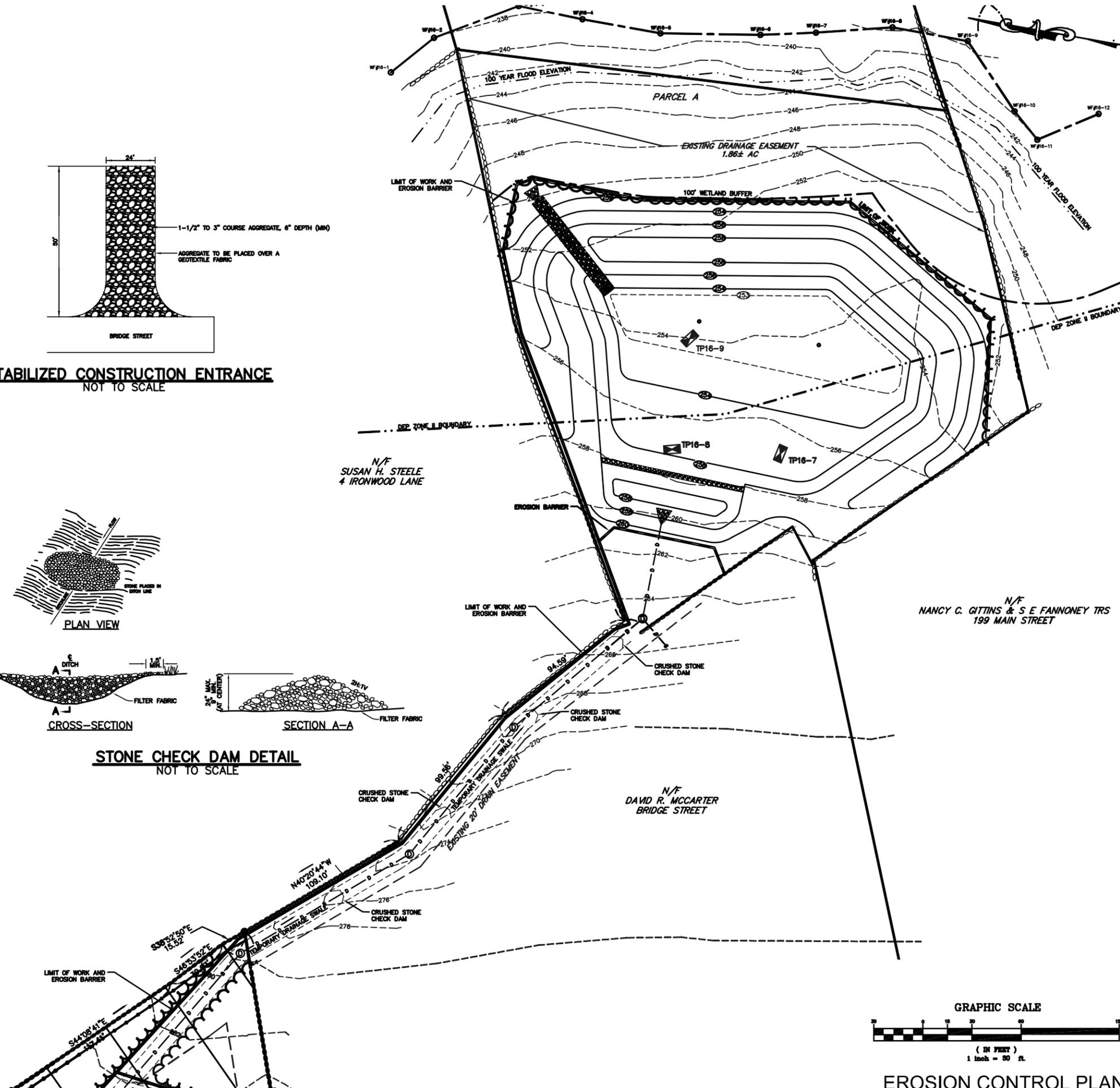
**STONE CHECK DAM DETAIL**  
NOT TO SCALE



**SILT SACK CATCH BASIN INLET**  
NOT TO SCALE



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DIGSAFE 1-888-344-7233



**EROSION CONTROL PLAN-2**

REVISIONS	
No.	DATE
1	05/10/16
2	06/08/16

JOYCE E. HASTINGS P.L.S.

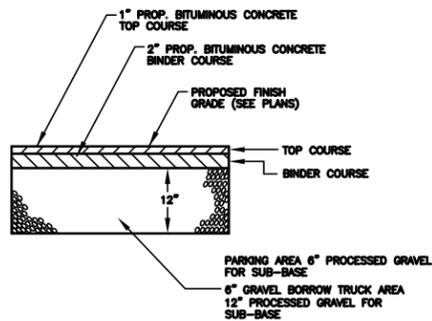
JOSEPH M. NIHILL P.E.

"THE DOVER ROAD RESIDENCES"  
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MILLIS, MASSACHUSETTS

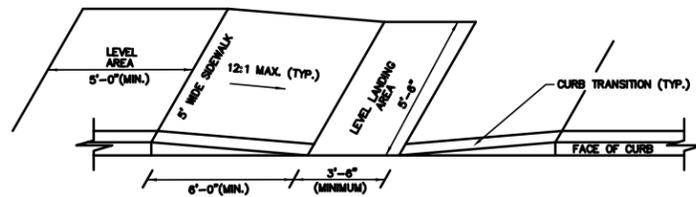
PREPARED FOR:  
BARBERRY HOMES  
10 SPEEN STREET  
FRAMINGHAM, MA

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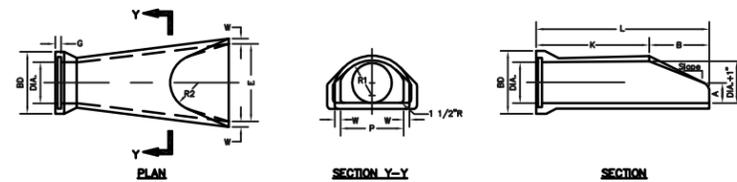
DRW.: 15664-Site Plan  
JOB No. 15664  
DATE: 03/07/16  
SCALE: 1"=30'  
SHEET: C-11  
PLAN #: 27,016



**PAVEMENT SECTION**  
NOT TO SCALE



**HANDICAP SIDEWALK RAMP**  
NOT TO SCALE



**R.C.P. FLARED END SECTION DETAILS**  
NOT TO SCALE

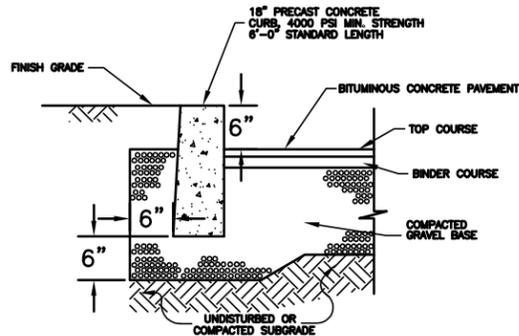
DA	W	A	B	C	D	E	BD	K	L	P	MA	R1	R2	S	G	Slope
12"	2'	4"	2'-0"	4'-0"	4'-0"	2'-0"	20"	4'-0"	4'-0"	4'-0"	13"	10 1/8"	9"	4"	2 1/2"	3:1
15"	2 1/4"	6"	2'-3"	5'-10"	5'-10"	2'-0"	24"	4'-1 1/8"	4'-1 1/8"	4'-1 1/8"	16"	12 1/2"	11"	4"	2 1/2"	3:1
18"	2 1/2"	8"	2'-5"	5'-10"	5'-10"	2'-0"	28"	4'-3 1/8"	4'-3 1/8"	4'-3 1/8"	19"	15 1/2"	12"	4"	2 3/4"	3:1
21"	2 3/4"	9"	2'-11"	5'-2"	5'-2"	2'-0"	32"	4'-5 1/8"	4'-5 1/8"	4'-5 1/8"	22"	18 1/8"	13"	4"	2 3/4"	3:1
24"	3"	9 1/2"	5'-1 1/2"	2'-6"	6'-1"	4'-0"	36"	4'-7 1/2"	4'-7 1/2"	4'-7 1/2"	25"	21 1/8"	14"	4"	3"	3:1

APPROVED BY THE MILLIS PLANNING BOARD:

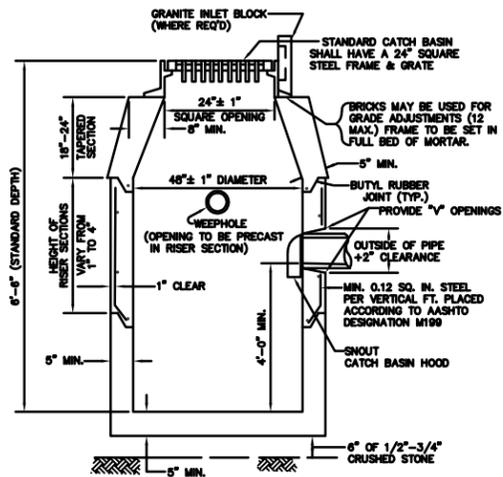
DATE APPROVED: \_\_\_\_\_  
DATE ENDORSED: \_\_\_\_\_

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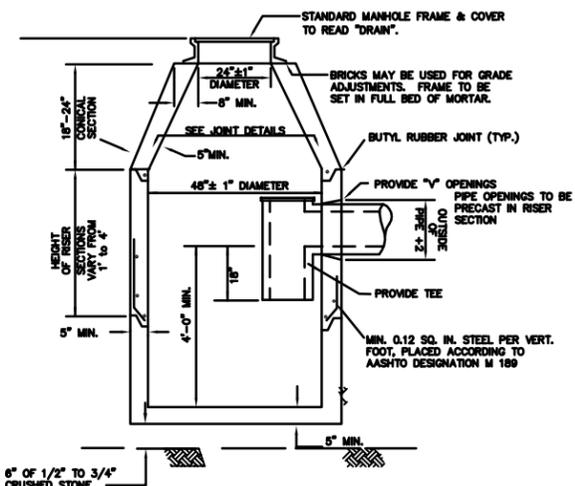
TOWN CLERK \_\_\_\_\_ DATE \_\_\_\_\_



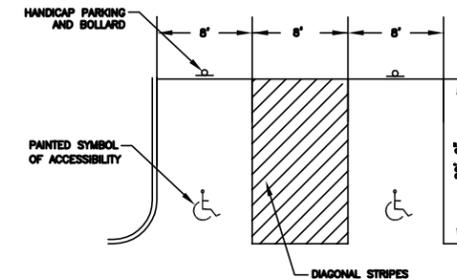
**PRECAST CONCRETE CURB**  
NOT TO SCALE



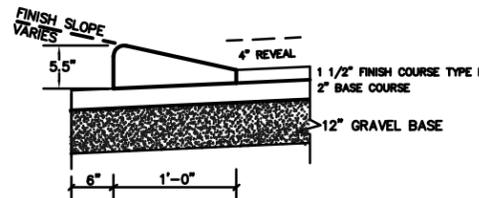
**PRECAST CONCRETE CATCH BASIN DETAIL**  
NOT TO SCALE



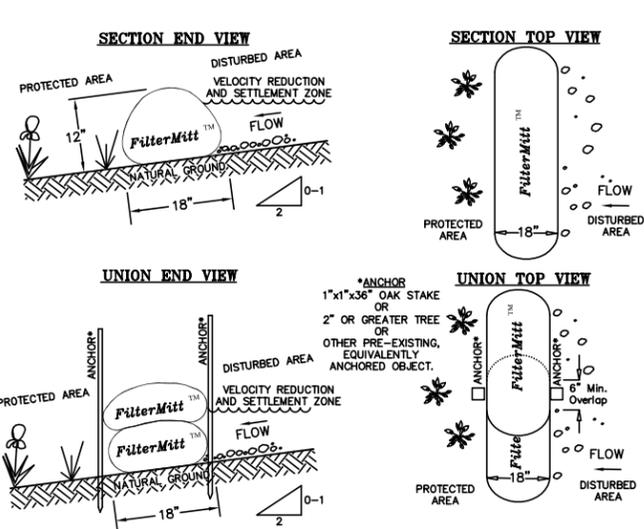
**PRECAST DEEP-SUMP CONCRETE MANHOLE DETAIL**  
NOT TO SCALE



**HANDICAP ACCESSIBLE PARKING SPACES AND STRIPING**  
N.T.S.

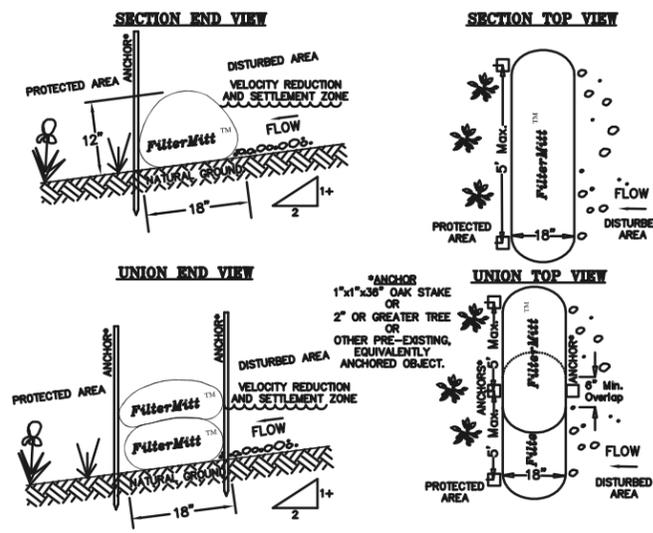


**CAPE COD BERM DETAIL**  
NOT TO SCALE



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.

**2:1 SLOPES OR LESS**  
NOT TO SCALE



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. Additional anchors shall also be placed at 5' intervals (max.) on the downslope or protected side to prevent movement.

**2:1 SLOPES OR GREATER**  
NOT TO SCALE

**FILTER MITT DETAIL**  
NOT TO SCALE

**FilterMitt™ 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.)

For more information visit:  
[www.groundscapesexpress.com](http://www.groundscapesexpress.com)  
or contact us at:  
**Groundscapes Express, Inc.**  
P.O. Box 737  
Wrentham, MA 02093  
(508) 384-7140

**FilterMitt™ INSTALLATION:**  
With the newest technology and equipment, sections can be constructed on site in lengths from 1' to 100'.

Sections can also be delivered to the site in lengths from 1' to 8'.

The flexibility of *FilterMitt™* allows it to conform to any contour or terrain while holding a slightly oval shape at 12" high by 18" wide.

REVISIONS	DATE	DESCRIPTION
1	05/10/16	BETA COMMENTS
2	06/08/16	BETA COMMENTS

JOYCE E. HASTINGS P.L.S.

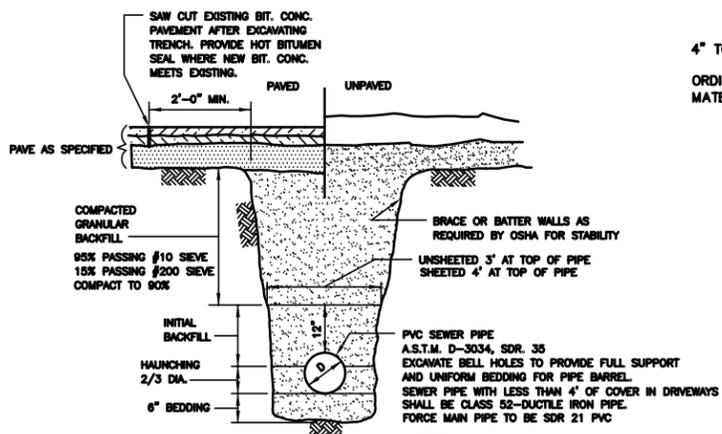
JOSEPH M. NIHILL P.E.

"THE DOVER ROAD RESIDENCES"  
BRIDGE STREET  
MILLIS, MASSACHUSETTS  
PREPARED FOR:  
BARBERRY HOMES  
10 SPEEN STREET  
FRAMINGHAM, MA

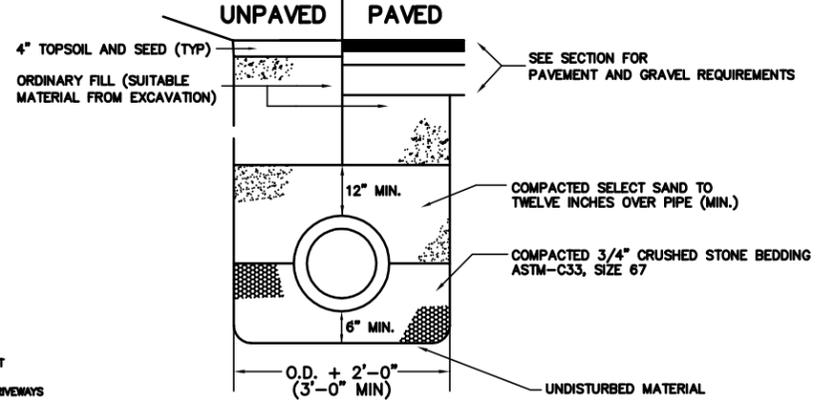
PREPARED FOR:  
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FRAMINGHAM, MA

**GGLM** Engineering Consultants, Inc.  
19 EXCHANGE STREET  
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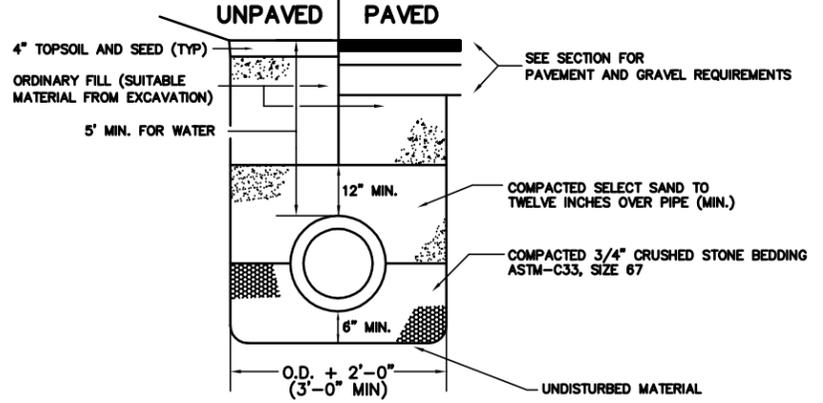
DRW.: 15664-Site Plan  
JOB No. 15664  
DATE: 03/07/16  
SCALE: NTS  
SHEET: C-12  
PLAN #: 27,016



**SEWER TRENCH DETAIL**  
NOT TO SCALE



**DRAIN TRENCH DETAIL**  
NOT TO SCALE



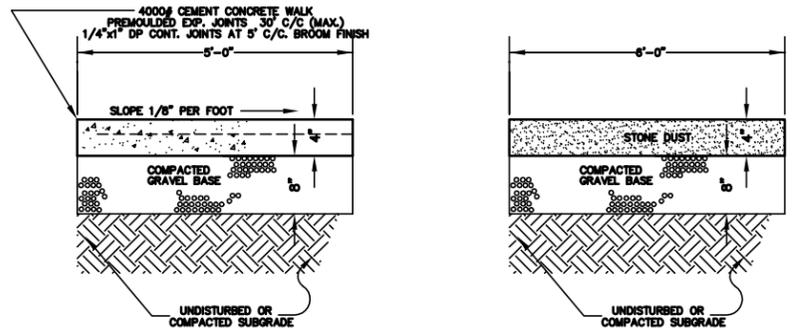
**WATER TRENCH DETAIL**  
NOT TO SCALE

APPROVED BY THE  
MILLS PLANNING BOARD:

DATE APPROVED: \_\_\_\_\_  
DATE ENDORSED: \_\_\_\_\_

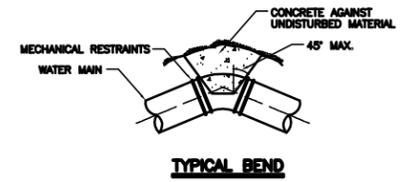
TOWN CLERK \_\_\_\_\_ DATE \_\_\_\_\_

I TOWN CLERK OF THE TOWN OF MILLS,  
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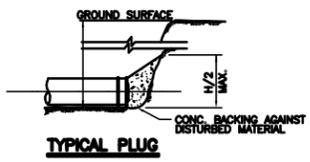


**TYPICAL SIDEWALK SECTION**  
N.T.S.

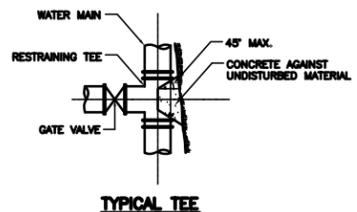
**WALKING TRAIL SECTION**  
N.T.S.



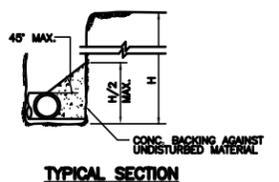
**TYPICAL BEND**



**TYPICAL PLUG**



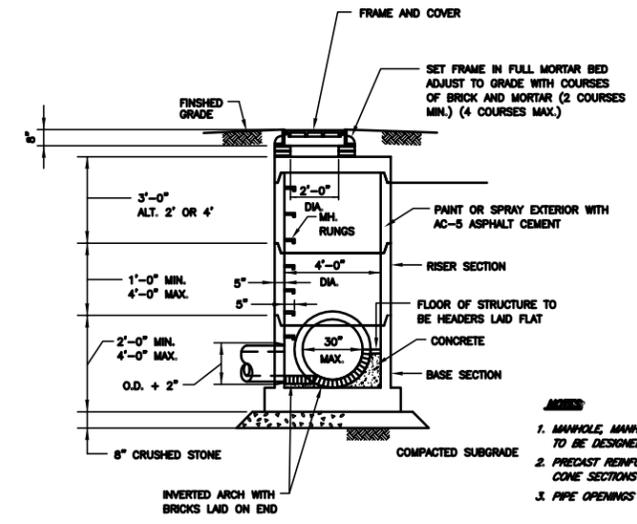
**TYPICAL TEE**



**TYPICAL SECTION**

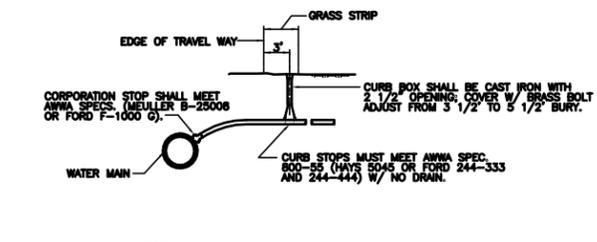
PIPE SIZE	1/4 BEND	1/8 BEND	1/2 BEND	PLUG TEES
8 AND 9	8	8	8	8
10 AND 12	22	13	8	18

**TYPICAL THRUST BLOCK DETAILS**  
N.T.S.

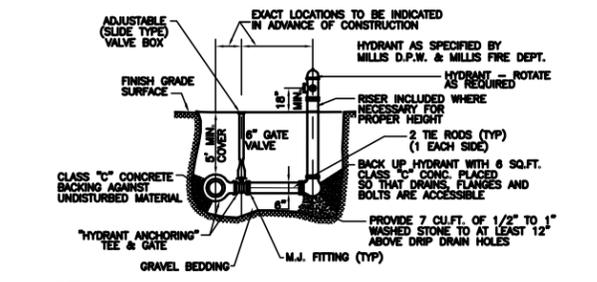


**TYPICAL PRECAST MANHOLE**  
N.T.S.

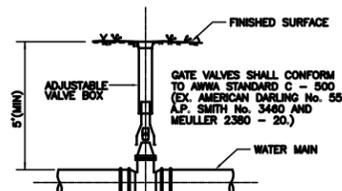
- NOTES:**
- MANHOLE, MANHOLE FRAME AND MANHOLE COVER TO BE DESIGNED FOR H-20 LOADINGS.
  - PRECAST REINFORCED MANHOLE BASE, RISER AND CONE SECTIONS PER A.S.T.M. C-478.
  - PIPE OPENINGS TO PRECAST IN BASE SECTION.



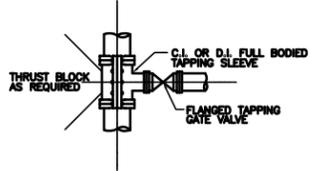
**TYPICAL SERVICE CONNECTION**  
N.T.S.



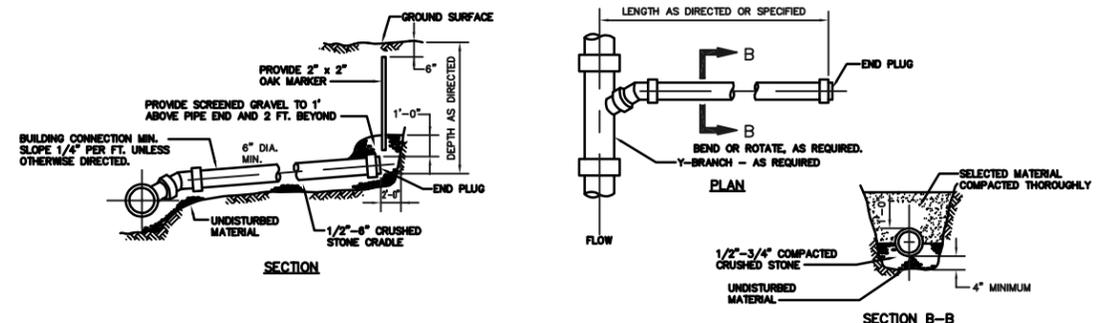
**TYPICAL HYDRANT ASSEMBLY DETAIL**  
N.T.S.



**TYPICAL GATE VALVE**  
N.T.S.



**TAPPING SLEEVE & VALVE DETAIL**  
N.T.S.



**TYPICAL BUILDING SEWER CONNECTION**  
N.T.S.

REVISIONS	DATE	DESCRIPTION
No. 1	05/10/16	BETA COMMENTS
No. 2	06/08/16	BETA COMMENTS

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JOSEPH M. NIHILL P.E.

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DRW.: 15664-Site Plan

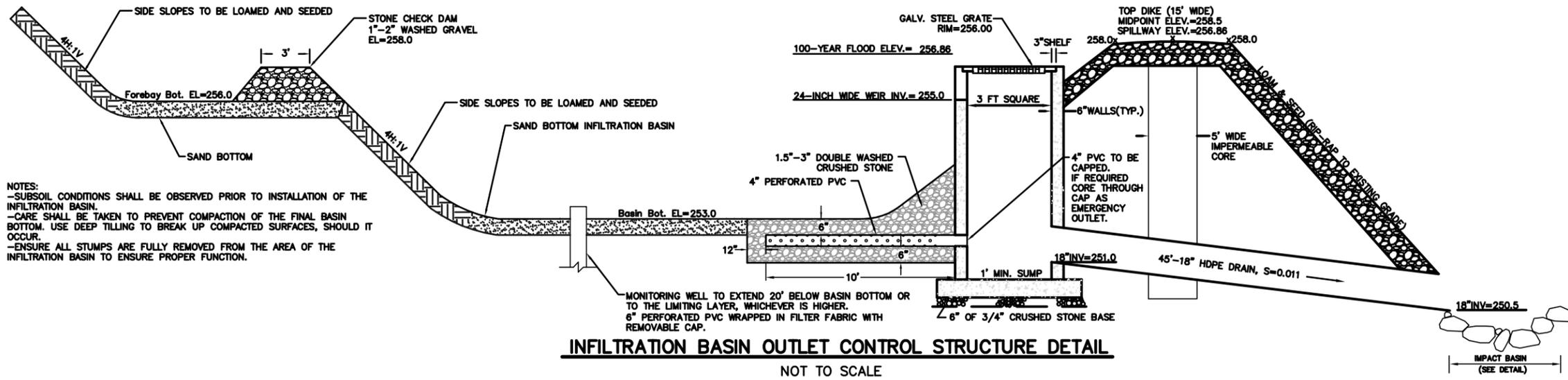
JOB No. 15664

DATE: 03/07/16

SCALE: NTS

SHEET: C-13

PLAN #: 27,016



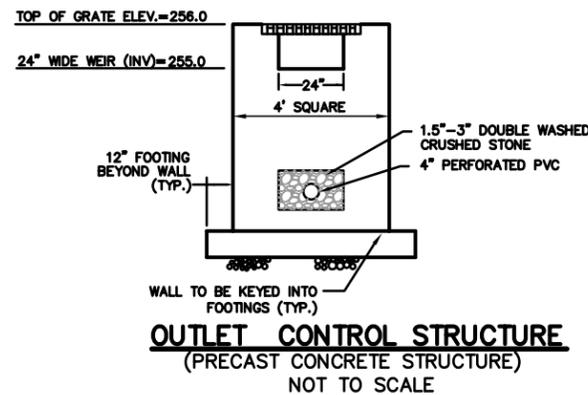
NOTES:  
 -SUBSOIL CONDITIONS SHALL BE OBSERVED PRIOR TO INSTALLATION OF THE INFILTRATION BASIN.  
 -CARE SHALL BE TAKEN TO PREVENT COMPACTION OF THE FINAL BASIN BOTTOM. USE DEEP TILLING TO BREAK UP COMPACTED SURFACES, SHOULD IT OCCUR.  
 -ENSURE ALL STUMPS ARE FULLY REMOVED FROM THE AREA OF THE INFILTRATION BASIN TO ENSURE PROPER FUNCTION.

APPROVED BY THE MILLIS PLANNING BOARD:

DATE APPROVED: \_\_\_\_\_  
 DATE ENDORSED: \_\_\_\_\_

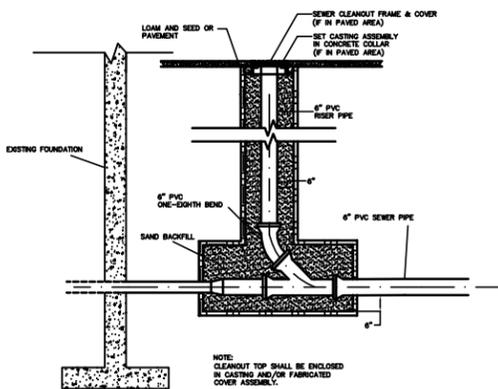
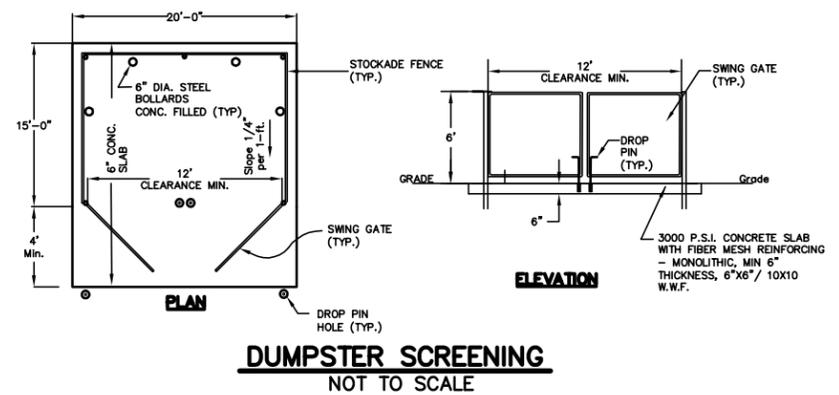
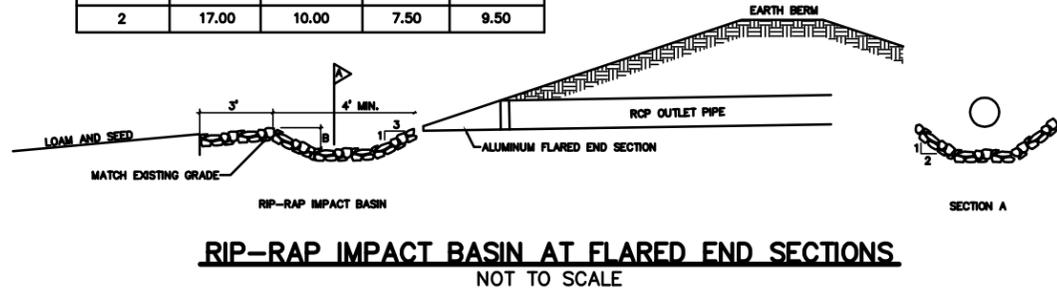
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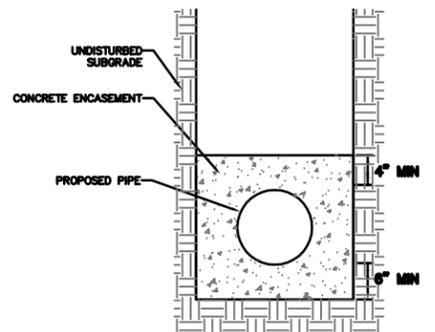


IMPACT BASIN SIZING

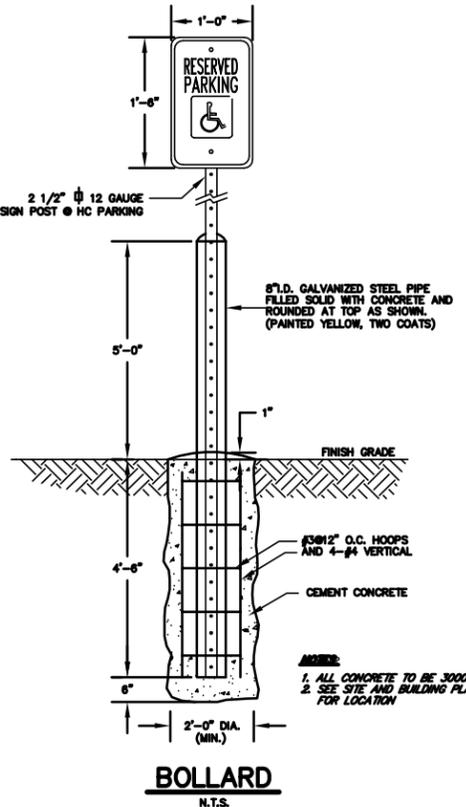
FLARED END #	DEPTH "B" (INCHES)	RIP-RAP SIZE D50 (IN.)	APRON LENGTH (FT)	APRON END WIDTH (FT)
1	24.00	10.00	7.50	9.50
2	17.00	10.00	7.50	9.50



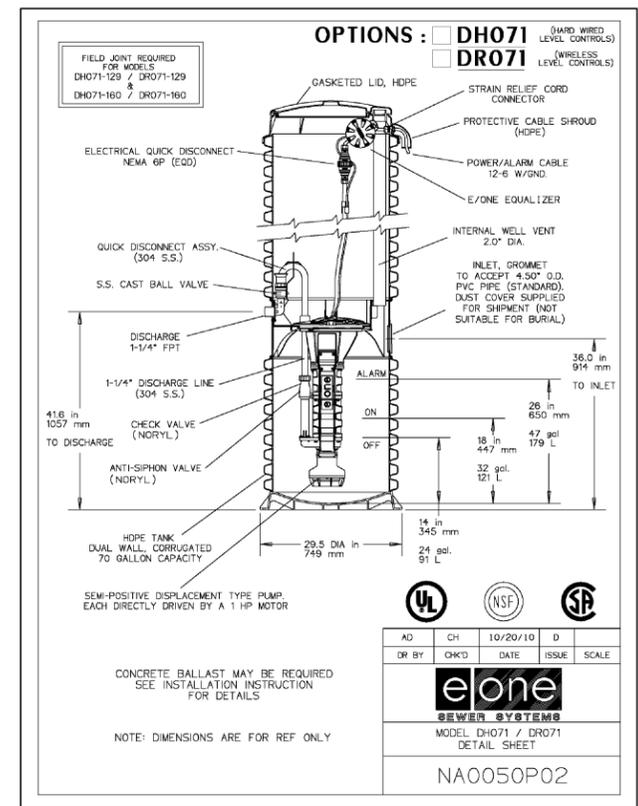
NOTES:  
 1. SEWER CLEANOUTS SHALL BE TYPICALLY LOCATED A MINIMUM OF 10' FROM THE FOUNDATION. THE 10' ZONE SHALL BE CONSIDERED THE DISTANCE FROM THE INSIDE FACE OF THE FOUNDATION TO A DISTANCE OF 10' OUTSIDE OF THE FOUNDATION, PERPENDICULAR TO THE INSIDE FACE OF THE FOUNDATION.



SEWER MAIN TO BE ENCASED IN CONCRETE WHERE 10' HORIZONTAL OF 16" VERTICAL SEPARATION CANNOT BE ACHIEVED



NOTES:  
 1. ALL CONCRETE TO BE 3000 P.S.I.  
 2. SEE SITE AND BUILDING PLANS FOR LOCATION



REVISIONS

No.	DATE	DESCRIPTION
1	05/10/16	BETA COMMENTS
2	06/08/16	BETA COMMENTS

JOYCE E. HASTINGS P.L.S.  
 JOSEPH M. NIHILL P.E.

"THE DOVER ROAD RESIDENCES"  
 BRIDGE STREET  
 MILLIS, MASSACHUSETTS  
 PREPARED FOR:  
 BARBERRY HOMES  
 10 SPEN STREET  
 FRAMINGHAM, MA

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**GLM** Engineering Consultants, Inc.  
 19 HOLLISTON STREET  
 HOLLISTON, MA 01746  
 P: 508-429-1100  
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 www.GLMengineering.com

DRW.: 15664-Site Plan  
 JOB No. 15664  
 DATE: 03/07/16  
 SCALE: NTS  
 SHEET: C-14  
 PLAN #: 27,016

PLANT SCHEDULE - PERMITTING

TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
14	AC	ABIES CONCOLOR	WHITE FIR	10'-12' HT.	BALL & BURLAP	(N)
18	AL	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	8'-10' HT.	B&B	(N)
10	AR	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	3-3.5" CAL.	B&B	40' O.C. (N)
3	AS	ACER SACCHARUM	SUGAR MAPLE	3-3.5" CAL.	SPECIMEN   B&B	(N)
27	JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	8'-10' HT.	HEAVY   B&B	(N)
4	LT	LIRIODENDRON TULIPIFERA	TULIP TREE	3.5-4" CAL.	SPECIMEN   B&B	(N)
15	NS	NYSSA SYLVATICA	BLACK TUPELO	2.5-3" CAL.	B&B	40' O.C. (N)
12	PA	PICEA ABIES	NORWAY SPRUCE	12'-14' HT.	HEAVY   B&B	(N)
28	PG	PICEA GLAUCA	WHITE SPRUCE	10'-12' HT.	HEAVY   B&B	(N)
5	QA	QUERCUS ALBA	WHITE OAK	3"-3.5" CAL.	B&B	40' O.C. (N)
8	QB	QUERCUS BICOLOR	SWAMP WHITE OAK	3"-3.5" CAL.	B&B	(N)
14	QR	QUERCUS RUBRA	RED OAK	2.5"-3" CAL.	B&B	40' O.C. (N)

TURF

51,555 SF	LO-GROW FESCUE; TURF TYPE; TALL FESCUE SEED MIX	SUMMIT SEED; MANTENO, IL; 815.468.7333 (N)
66,302 SF	NEW ENGLAND CONSERVATION   WLDLIFE SEED MIX MIX INCLUDES; VIRGINIA WILD RYE; LITTLE BLUESTEM; BIG BLUESTEM; CREEPING RED FESCUE; SWITCH GRASS; PARTRIDGE PEA; DEER TONGUE; INDIAN GRASS; COMMON MILKWEED; OX EYE SUNFLOWER; PURPLE JOE PYE WEED; GRASS LEAVED GOLDENROD; BLUE VERVAIN; GOLDEN ALEXANDERS; FLAT TOPPED/UMBRELLA ASTER; EARLY GOLDENROD	NE WETLAND PLANTS, INC., MA; 413.548.8000 APPLICATION RATE 25 LBS/ ACRE (N)

O.C. = ON-CENTER SPACING  
(N) = NATIVE SPECIES  
(IN) = IMPROVED NATIVE

PLANT SCHEDULE - PERMITTING

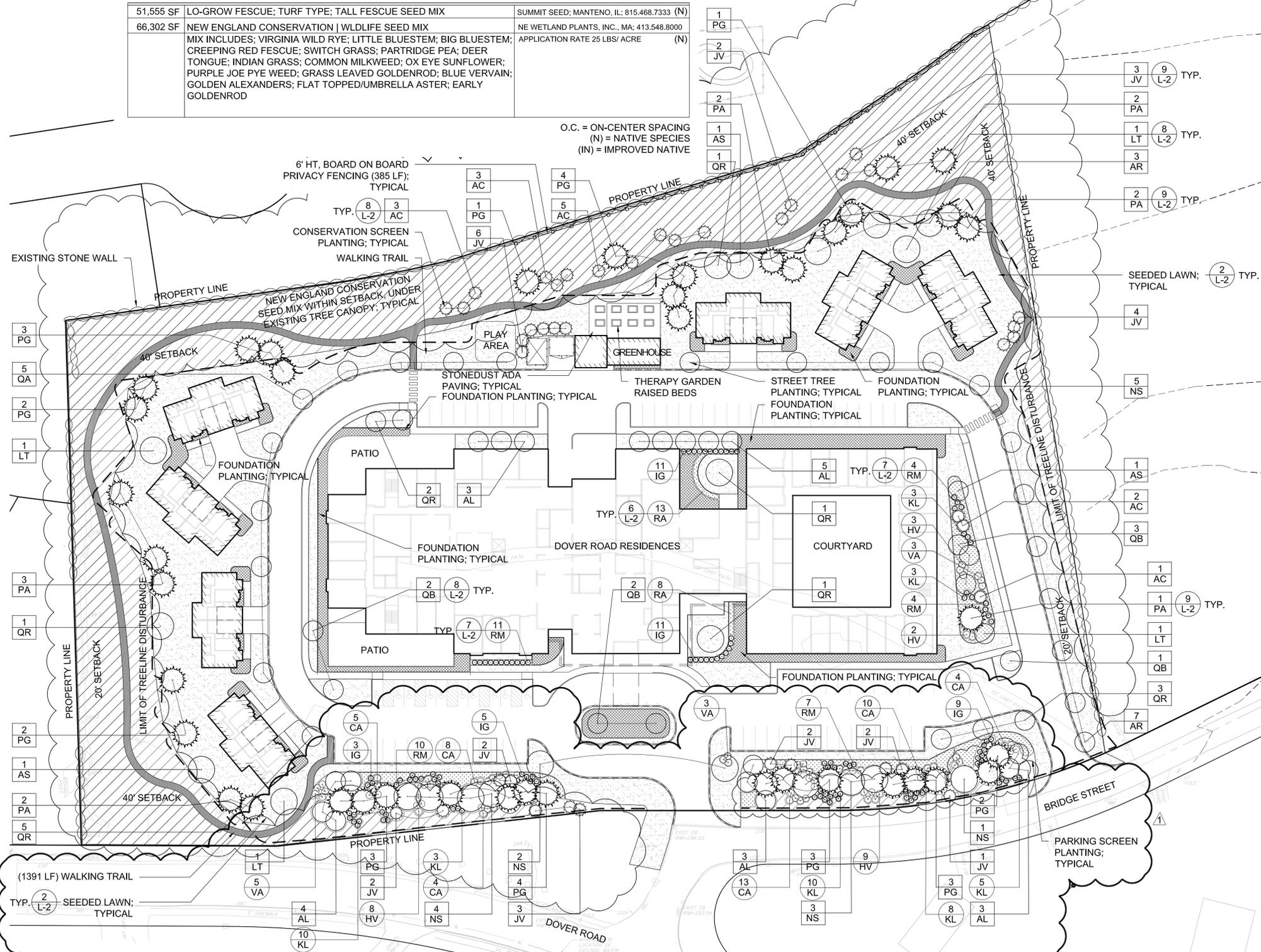
SCREENING SHRUBS

44	CA	CLETHRA ALINFOLIA 'RUBY SPICE'	RUBY SPICE SUMMERSWEET	24"-30" HT.	#10 CONT.	4' O.C. (IN)
22	HV	HAMAMELIS VIRGINANA	COMMON WITCH-HAZEL	5'-6" HT.	B&B	8' O.C. (N)
39	IG	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	24"-30" HT.	#5 CONT.	4' O.C. (N)
42	KL	KALMIA LATIFOLIA	MOUNTAIN LAUREL	4'-5' HT.	B&B	5' O.C. (N)
21	RA	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	24"-30" SP.	#3 CONT.	4' O.C. (IN)
36	RM	RHODODENDRON MAXIMUM	ROSEBAY RHODODENDRON	6'-7" HT.	B&B	5' O.C. (N)
11	VA	VIBURNUM ACERFOLIUM	MAPLE LEAF VIBURNUM	18"-24" HT.	#3 CONT.	5' O.C. (N)

O.C. = ON-CENTER SPACING  
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GENERAL PERMITTING PLANTING NOTES

- REMOVE AND DISPOSE COMPLETE ALL INVASIVE OR NON-NATIVE PLANT MATERIALS AS INDICATED BY PLAN AND/OR AS PER FIELD TAGGING UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE.
- PROTECT EXISTING WOODLAND HUMUS AND LEAF LITTER; WHERE DISTURBANCE OCCURS INSTALL NEW LEAF MULCH MIXED WITH THE FOLLOWING NATURALIZING SEED MIX; NEW ENGLAND CONSERVATION / WLDLIFE SEED MIX FROM NEW ENGLAND WETLAND PLANTS, INC., WHEN PLANTING ACTIVITIES ARE COMPLETE.
- PROVIDE TREE PIT TO THE DEPTH OF ROOTBALL SHOWN IN THE TREE PLANTING DETAIL; BACKFILL WITH FRESH PLANTING MIX.
- PROVIDE SHRUB PIT TO THE DEPTH OF ROOTBALL SHOWN IN THE SHRUB PLANTING DETAIL; BACKFILL WITH FRESH PLANTING MIX.
- PROVIDE PERENNIAL/ GROUNDCOVER PLANTING TO THE DEPTH OF ROOTBALL SHOWN IN THE PERENNIAL/ GROUNDCOVER PLANTING DETAIL; BACKFILL WITH FRESH PLANTING MIX.
- ALL PLANTING BEDS NOT WITHIN THE SETBACKS / NO-DISTURBANCE ZONE SHALL RECEIVE MAXIMUM 2-INCH DEPTH OF WELL-ROTTED, HARDWOOD MULCH UNLESS OTHERWISE INDICATED BY THE RULING REGULATORY AGENCY.
- ALL PLANTING BEDS WITHIN THE SETBACK / NO-DISTURBANCE ZONE SHALL NOT BE HARDWOOD MULCHED BUT RATHER OVERSEEDED WITH THE FOLLOWING NATURALIZING SEED MIX; NEW ENGLAND CONSERVATION SEED MIX FROM NEW ENGLAND WETLAND PLANTS, INC., WHEN PLANTING ACTIVITIES ARE COMPLETE.
- ALL FOUNDATION AND GROUNDCOVER PLANTINGS WILL BE DETERMINED DURING THE DESIGN DEVELOPMENT PHASE OF THE PROJECT.
- EXISTING TREES WITHIN SETBACK AREAS WILL BE SELECTIVELY CLEARED BASED ON RECOMMENDATIONS PROVIDED BY THE LANDSCAPE ARCHITECT FOR HEALTH, SAFETY, WELFARE CONCERNS.



REVISIONS	DATE	DESCRIPTION
No. 1	05/10/2016	BERM PLANTING

KELLIE A. CONNELLY R.L.A.

**terrainsk**  
landscape architecture+planning  
7 Central St., Arlington, MA 02476  
telephone: 781.316.1595

DOVER ROAD RESIDENCES  
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DRW.: 16005

JOB No. 15664

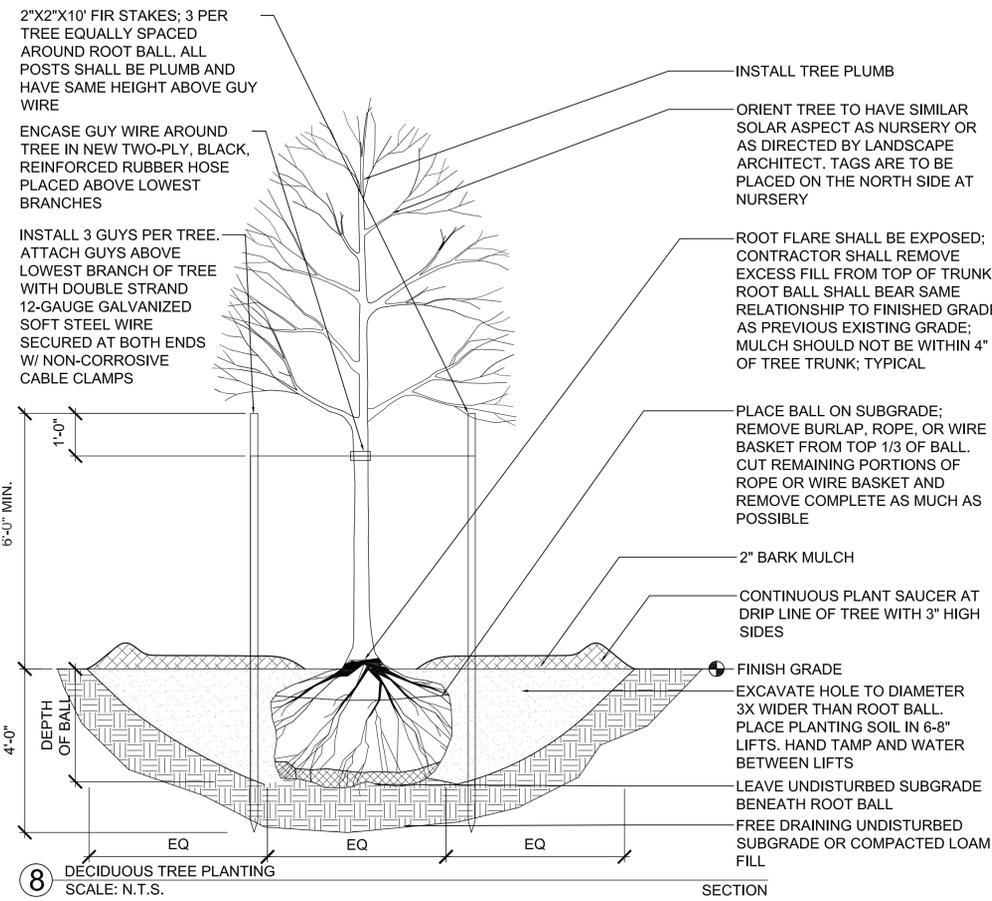
DATE: 03/08/16

SCALE: 1"=40'

SHEET: 1 of 2

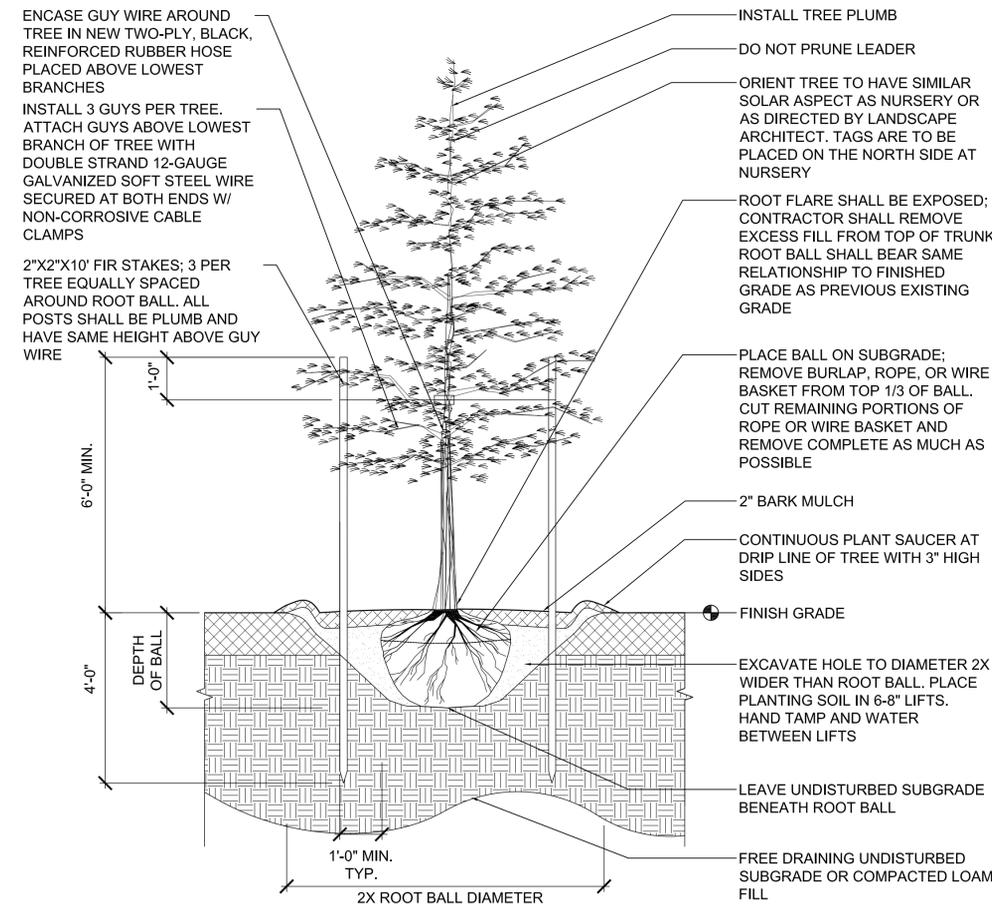
PLAN #: L-1

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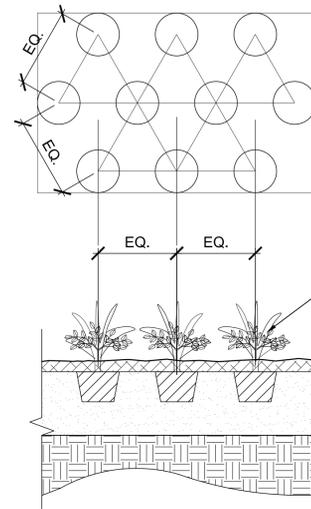
8 DECIDUOUS TREE PLANTING  
SCALE: N.T.S.

SECTION



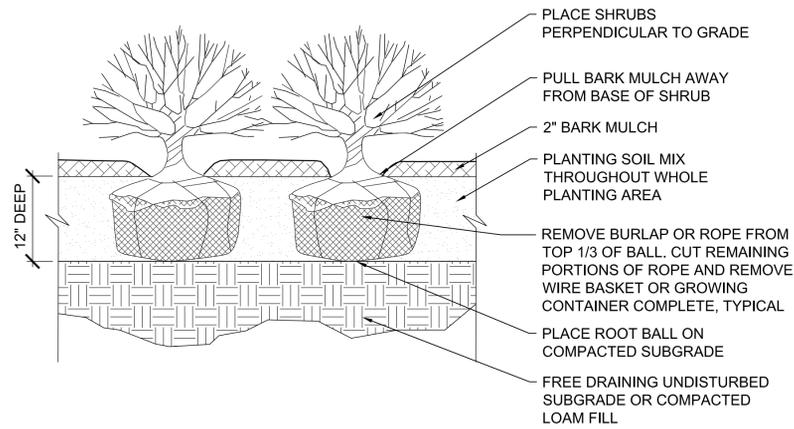
9 EVERGREEN TREE PLANTING  
SCALE: N.T.S.

SECTION



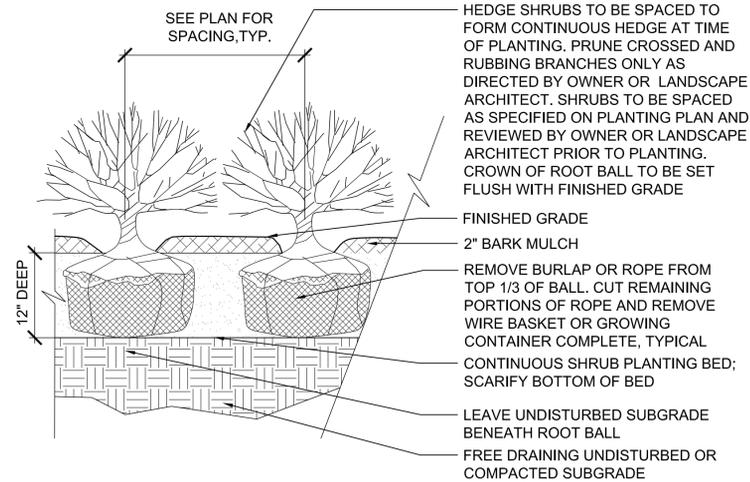
5 HERBACEOUS MATERIALS SPACING CHART  
SCALE: N.T.S.

PLAN | SECTION



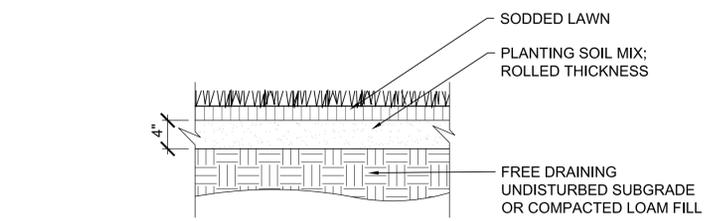
6 SHRUB PLANTING  
SCALE: N.T.S.

SECTION



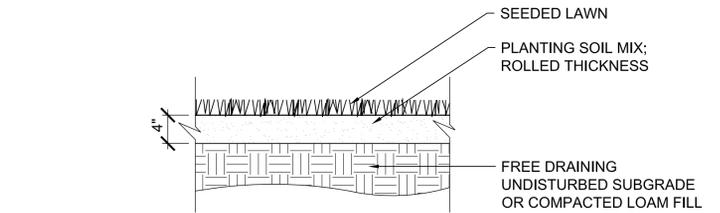
7 HEDGE PLANTING  
SCALE: N.T.S.

SECTION



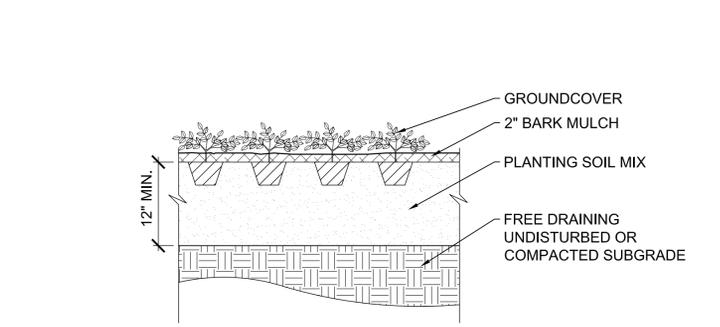
1 SOD LAWN  
SCALE: N.T.S.

SECTION



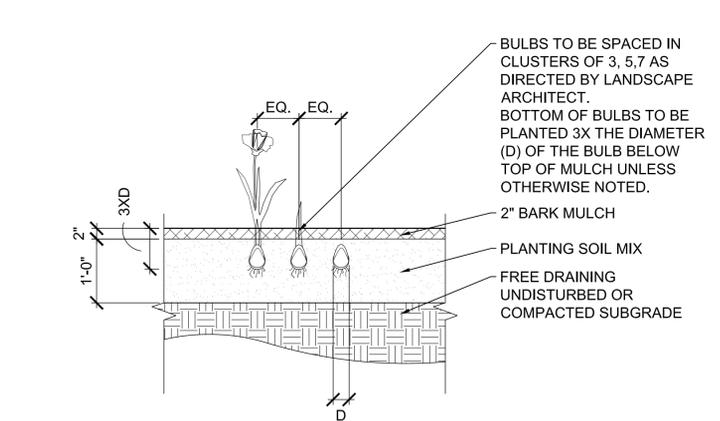
2 SEED LAWN  
SCALE: N.T.S.

SECTION



3 PERENNIAL PLANTING  
SCALE: N.T.S.

SECTION



4 BULB PLANTING  
SCALE: N.T.S.

SECTION

PLANTING DETAILS

REVISIONS	DESCRIPTION
No.	DATE

KELLIE A. CONNELLY R.L.A.



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DRW.:	16005
JOB No.	15664
DATE:	03/08/16
SCALE:	N.T.S.
SHEET:	2 of 2
PLAN #:	L-2