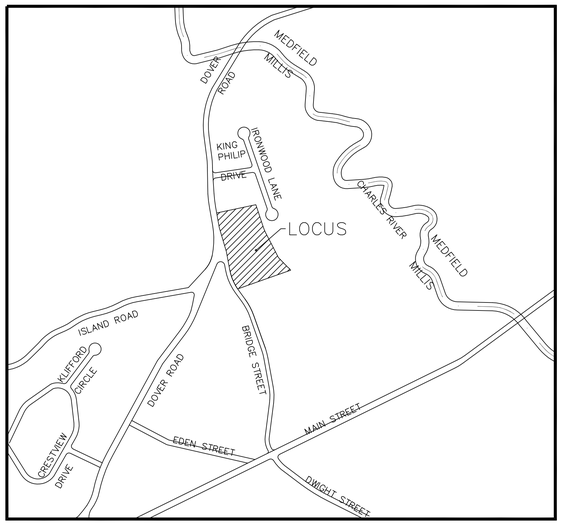

ZONING DATA:

RESIDENCE (R-S)

	REQUIRED	PROVIDED
MAP 18, PARCEL 4		
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.
SETBACKS:		
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	0.007

(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%)

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Revision:

05/10/2021
05/24/2021
06/22/2021

Architect of Record:

Drawn:
Checked:
Scale: 1' =80'
Key Plan:

Project Name:
ANTHOLOGY OF MILLIS

MILLIS, MA

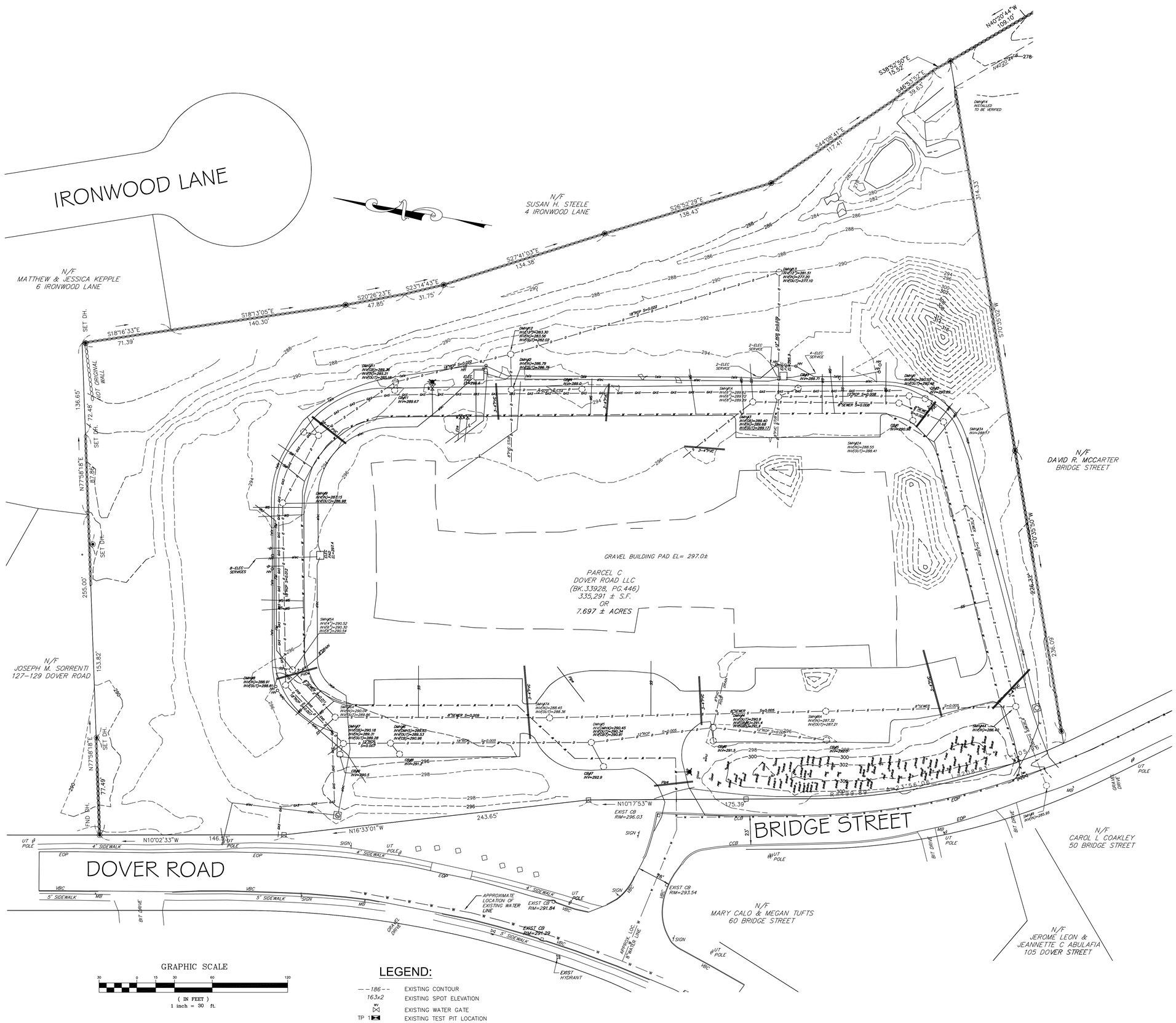
Sheet Name:

LOCUS

Project Number:

Issue Date:
4/12/21

Sheet Number:
C-1



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05/10/2021
05/24/2021
06/22/2021

Architect of Record:

Drawn:

Checked:

Scale: 1' = 30'

Key Plan:

Project Name:

ANTHOLOGY OF MILLIS

MILLIS, MA

Sheet Name:

EXISTING CONDITIONS

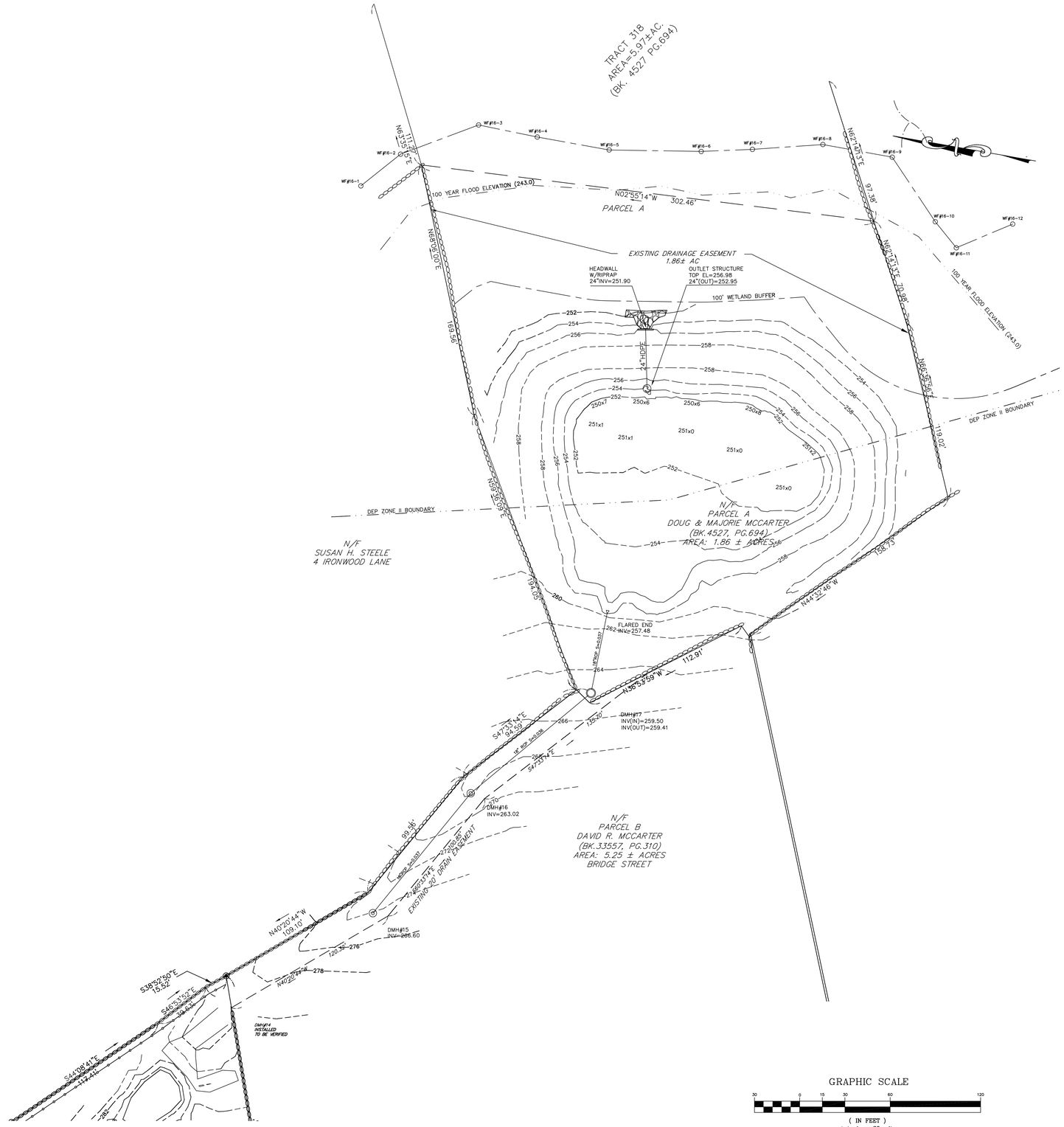
Project Number:

Issue Date:

4/12/21

Sheet Number:

C-2



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Checked:

Scale: 1' = 30'

Key Plan:

Project Name:

ANTHOLOGY OF MILLIS

MILLIS, MA

Sheet Name:

EXISTING CONDITIONS

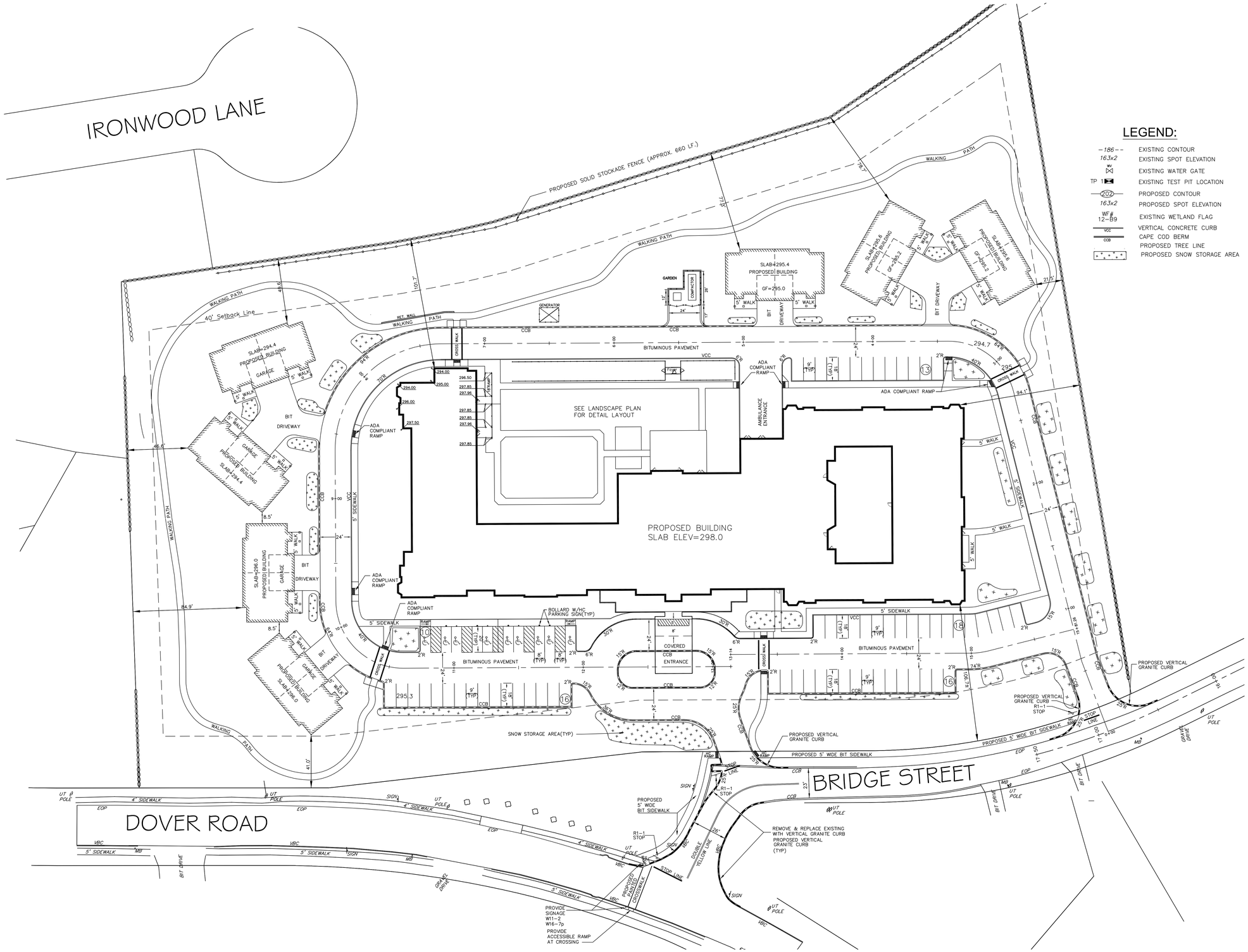
Project Number:

Issue Date:

4/12/21

Sheet Number:

C-3



LEGEND:

–186–	EXISTING CONTOUR
163x2	EXISTING SPOT ELEVATION
WV	EXISTING WATER GATE
TP 1	EXISTING TEST PIT LOCATION
202	PROPOSED CONTOUR
163x2	PROPOSED SPOT ELEVATION
WF# 12–B9	EXISTING WETLAND FLAG
VCC	VERTICAL CONCRETE CURB
CCB	CAPE COD BERM
	PROPOSED TREE LINE
	PROPOSED SNOW STORAGE AREA

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

NOTES:
1. SIDEWALKS SHALL BE 5' WIDE, BITUMINOUS ASPHALT WITH CEMENT CONCRETE RAMPS AT ALL DRIVEWAY AND STREET CROSSINGS. RAMPS SHALL HAVE GRANITE CURB TYPE VA5.
2. RAMPS AND SIDEWALKS SHALL MEET MASSDOT 2014 CONSTRUCTION STANDARD DETAILS AND ALL ADA AND AAB STANDARDS.
3. SIGNAGE SHALL MEET MUTCD MASSDOT STANDARDS FOR CROSSWALK ON BRIDGE STREET AND DOVER ROAD.

LAYOUT PLAN

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05/24/2021
06/22/2021

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Drawn:

Checked:

Scale: 1' = 30'

Key Plan:

Project Name:
ANTHOLOGY OF MILLIS

MILLIS, MA

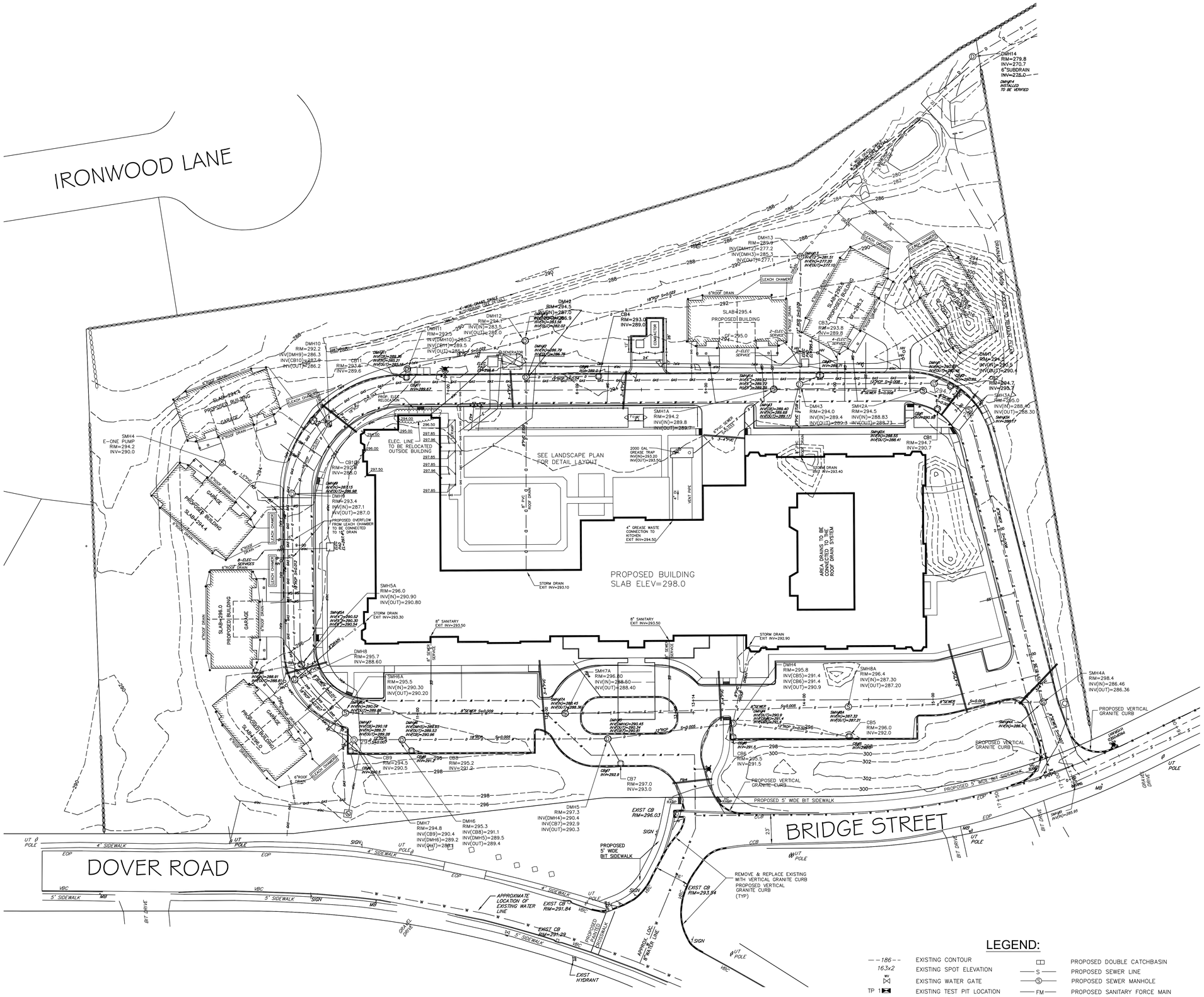
Sheet Name:

LAYOUT

Project Number:

Issue Date:
4/12/21

Sheet Number:
C-4



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

LEGEND:

--186--	EXISTING CONTOUR		PROPOSED DOUBLE CATCHBASIN
16.3x2	EXISTING SPOT ELEVATION	—S—	PROPOSED SEWER LINE
WV	EXISTING WATER GATE	—S—	PROPOSED SEWER MANHOLE
TP 1	EXISTING TEST PIT LOCATION	—FM—	PROPOSED SANITARY FORCE MAIN
—202—	PROPOSED CONTOUR	—8"W—	PROPOSED WATER LINE
16.3x2	PROPOSED SPOT ELEVATION		WATER GATE
	PROPOSED HYDRANT	GLM 12-B9	EXISTING WETLAND FLAG (GLM ENGINEERING)
	PROPOSED DRAIN MANHOLE	VCC	VERTICAL CONCRETE CURB
	PROPOSED CATCH BASIN	CCB	CAPE COD BERM
	PROPOSED TREE LINE		

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Architect of Record:

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Scale: 1' = 30'

Key Plan:

Project Name:
ANTHOLOGY OF MILLIS

MILLIS, MA

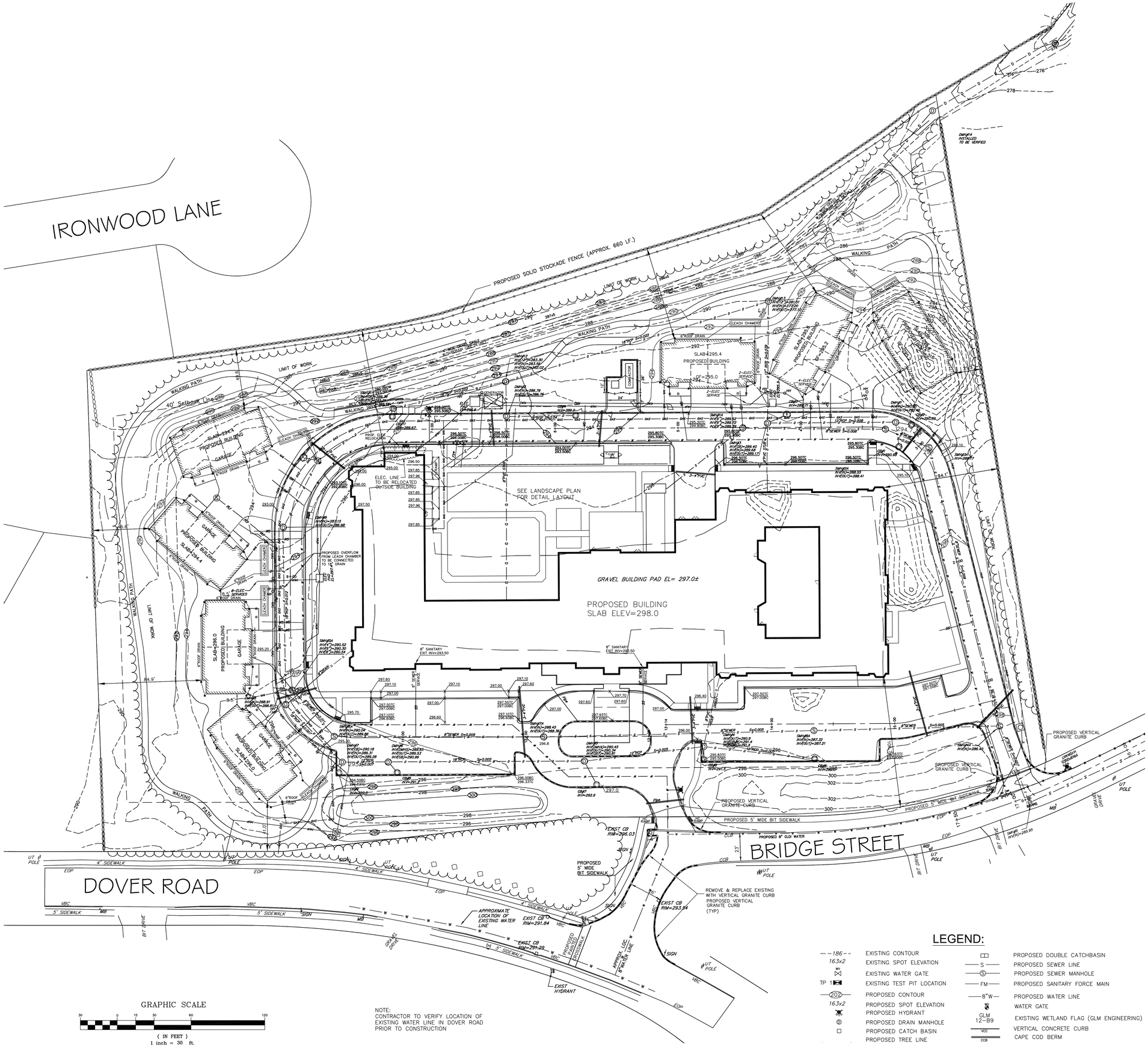
Sheet Name:

DRAINAGE & UTILITIES

Project Number:

Issue Date:
4/12/21

Sheet Number:
C-5



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05/10/2021
05/24/2021
06/22/2021

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Checked:

Scale: 1' = 30'

Key Plan:

Project Name:

ANTHOLOGY OF MILLIS

MILLIS, MA

Sheet Name:

GRADING, DRAINAGE & UTILITIES

Project Number:

Issue Date:

4/12/21

Sheet Number:

C-6

NOTE:

1. 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.
2. AREAS DISTURBED TO CONSTRUCT THE CROSS COUNTRY DRAINAGE NETWORK SHALL BE SEEDED WITH '*NEW ENGLAND CONSERVATION/WILDLIFE MIX' OR APPROVED EQUAL.
3. AREAS DISTURBED TO CONSTRUCT THE SEDIMENT FOREBAY AND INFILTRATION BASIN SHALL BE LOAMED AND SEEDED.
4. AT THE END OF EACH WORK DAY ALL OPEN TRENCHES SHALL BE BACKFILLED OR APPROPRIATELY PLATED. NO EXCAVATIONS TO BE LEFT OPEN OVERNIGHT.
5. ALL EXCAVATIONS SHALL BE ADEQUATELY FENCED OR OR WARNING SIGNAGE POSTED DURING CONSTRUCTION.

*NEW ENGLAND CONSERVATION/WILDLIFE MIX SPECIES:
BIG BLUESTEM (ANDROPOGON GERARDII), FRINGED BROME GRASS (BROMUS CILIATUS), CREEPING RED FESCUE (FESTUCA RUBRA), CANADA WILD RYE (ELYMUS CANADENSIS), VIRGINIA WILD RYE (ELYMUS VIRGINICUS), SWITCHGRASS (PANICUM VIRGATUM), DEER TONGUE (PANICUM CLANDESTINUM), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), INDIAN GRASS (SORGHASTRUM NUTANS), COMMON MILKWEED (ASCLEPIAS SYRIACA), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), PATRIDGE PEA (CHAMAECRISTA FASCICULATA), SHOWY TICK-TREFOIL (DESMODIUM CANADENSE), GRASS LEAVED GOLDENROD (EUTHAMIA GRAMINIFOLIA), GRAY GOLDENROD (SOLIDAGO NEMORALIS).

DEEP OBSERVATION HOLE LOGS

DEEP HOLE – 16-1		
HORIZ DEPTH	DATE: 1/15/16 SOIL DESCRIPTION	ELEV.
0"	A	290.2
10"	SANDY LOAM 10YR3/2	289.4
28"	Bw SANDY LOAM 10YR5/6	287.9
98"	C SANDY LOAM 2.5Y5/4	282.0
	GROUNDWATER OBSERVED	
28"	SOIL MOTTLING	287.9
	GROUNDWATER MONITORED	
28"	ESTIMATED SEASONAL HIGH GROUNDWATER	287.9

DEEP HOLE – 16-2		
HORIZ DEPTH	DATE: 1/15/16 SOIL DESCRIPTION	ELEV.
0"	A	292.0
14"	SANDY LOAM 10YR3/2	290.8
30"	Bw SANDY LOAM 10YR5/6	289.5
90"	C SANDY LOAM 2.5Y5/4	284.5
	GROUNDWATER OBSERVED	
30"	SOIL MOTTLING	289.5
	GROUNDWATER MONITORED	
30"	ESTIMATED SEASONAL HIGH GROUNDWATER	289.5

DEEP HOLE – 16-3		
HORIZ DEPTH	DATE: 1/15/16 SOIL DESCRIPTION	ELEV.
0"	A	287.0
6"	SANDY LOAM 10YR3/2	286.5
24"	Bw SANDY LOAM 10YR5/6	285.0
110"	C SANDY LOAM 2.5Y5/4	277.8
	GROUNDWATER OBSERVED	
	SOIL MOTTLING	
	GROUNDWATER MONITORED	
	ESTIMATED SEASONAL HIGH GROUNDWATER	

DEEP HOLE – 16-4		
HORIZ DEPTH	DATE: 1/15/16 SOIL DESCRIPTION	ELEV.
0"	A	288.0
6"	SANDY LOAM 10YR3/2	287.5
26"	Bw SANDY LOAM 10YR5/6	285.8
90"	C SANDY LOAM 2.5Y5/4	280.5
	GROUNDWATER OBSERVED	
26"	SOIL MOTTLING	285.8
	GROUNDWATER MONITORED	
26"	ESTIMATED SEASONAL HIGH GROUNDWATER	285.8

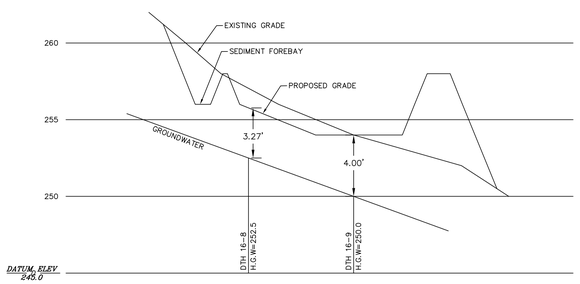
DEEP HOLE – 16-5		
HORIZ DEPTH	DATE: 1/15/16 SOIL DESCRIPTION	ELEV.
0"	A	285.8
10"	SANDY LOAM 10YR3/2	285.0
28"	Bw SANDY LOAM 10YR5/6	283.5
92"	C SANDY LOAM 2.5Y5/4	277.8
	GROUNDWATER OBSERVED	
28"	SOIL MOTTLING	283.5
	GROUNDWATER MONITORED	
28"	ESTIMATED SEASONAL HIGH GROUNDWATER	283.5

DEEP HOLE – 16-6		
HORIZ DEPTH	DATE: 1/15/16 SOIL DESCRIPTION	ELEV.
0"	A	301.0
6"	SANDY LOAM 10YR3/2	300.5
26"	Bw SANDY LOAM 10YR5/6	298.8
120"	C SANDY LOAM 2.5Y5/4	291.0
	GROUNDWATER OBSERVED	XXX
40"	SOIL MOTTLING	297.7
	GROUNDWATER MONITORED	
40"	ESTIMATED SEASONAL HIGH GROUNDWATER	297.7

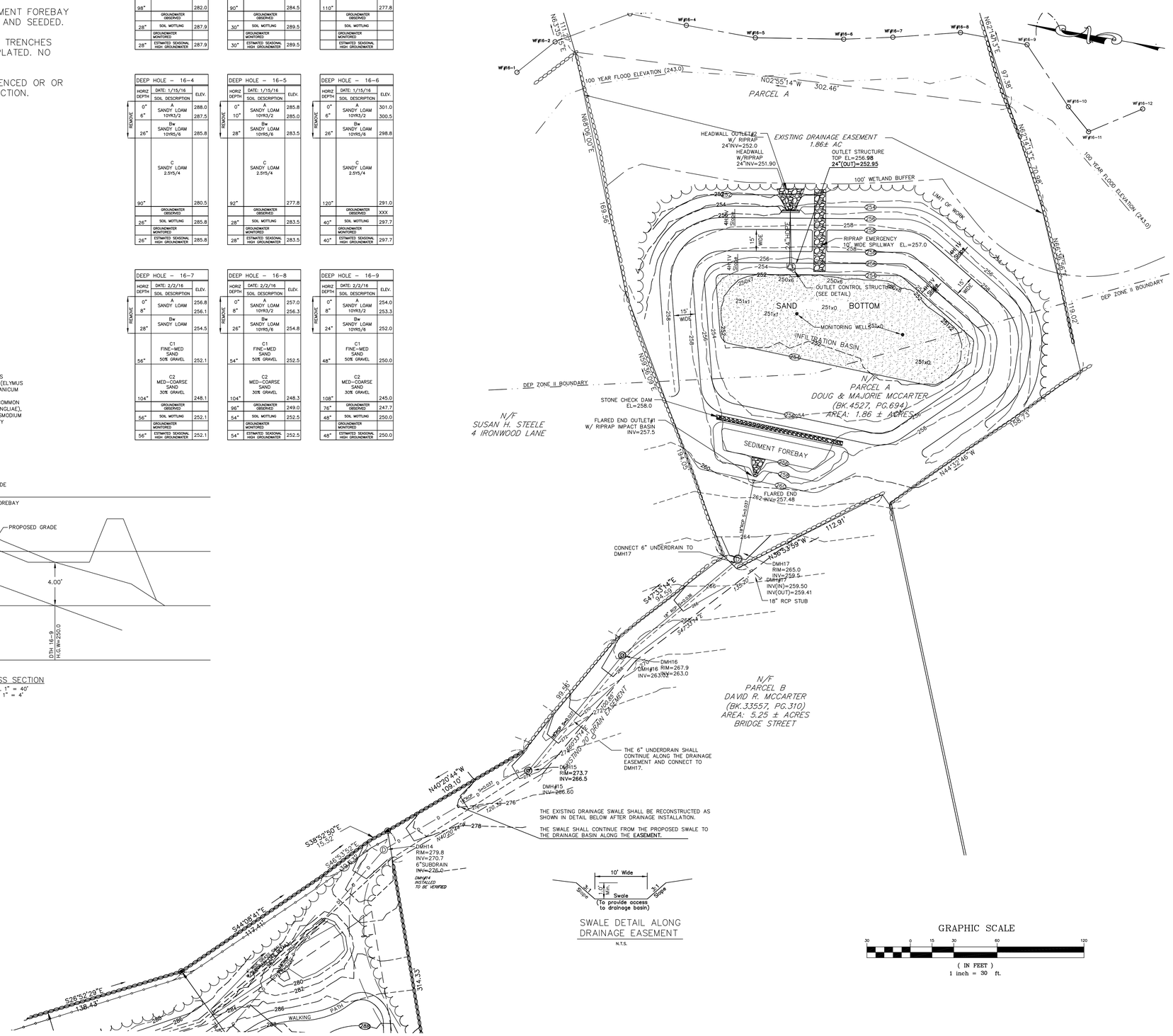
DEEP HOLE – 16-7		
HORIZ DEPTH	DATE: 2/2/16 SOIL DESCRIPTION	ELEV.
0"	A SANDY LOAM	256.8
8"		256.1
28"	Bw SANDY LOAM	254.5
56"	C1 FINE-MED SAND 50% GRAVEL	252.1
104"	C2 MED-COARSE SAND 30% GRAVEL	248.1
	GROUNDWATER OBSERVED	
56"	SOIL MOTTLING	252.1
	GROUNDWATER MONITORED	
56"	ESTIMATED SEASONAL HIGH GROUNDWATER	252.1

DEEP HOLE – 16-8		
HORIZ DEPTH	DATE: 2/2/16 SOIL DESCRIPTION	ELEV.
0"	A	257.0
8"	SANDY LOAM 10YR3/2	256.3
26"	Bw SANDY LOAM 10YR5/6	254.8
54"	C1 FINE-MED SAND 50% GRAVEL	252.5
104"	C2 MED-COARSE SAND 30% GRAVEL	248.3
96"	GROUNDWATER OBSERVED	249.0
54"	SOIL MOTTLING	252.5
	GROUNDWATER MONITORED	
54"	ESTIMATED SEASONAL HIGH GROUNDWATER	252.5

DEEP HOLE – 16-9		
HORIZ DEPTH	DATE: 2/2/16 SOIL DESCRIPTION	ELEV.
0"	A SANDY LOAM	254.0
8"	10YR3/2	253.3
24"	Bw SANDY LOAM 10YR5/6	252.0
48"	C1 FINE-MED SAND 50% GRAVEL	250.0
108"	C2 MED-COARSE SAND 30% GRAVEL	245.0
76"	GROUNDWATER OBSERVED	247.7
48"	SOIL MOTTLING	250.0
	GROUNDWATER MONITORED	
48"	ESTIMATED SEASONAL HIGH GROUNDWATER	250.0



BASIN CROSS SECTION
HORIZONTAL 1" = 40'
VERTICAL 1" = 4'



SWALE DETAIL ALONG DRAINAGE EASEMENT
N.T.S.

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COMMONWEALTH OF MASSACHUSETTS ROBERT S. TRUAX CIVIL NO. 56687 REGISTERED PROFESSIONAL ENGINEER

Revision:

05/10/2021
05/24/2021
06/22/2021

Architect of Record:

Drawn:

Checked:

Scale: 1' = 30'

Key Plan:

Project Name:

ANTHOLOGY OF MILLIS

MILLIS, MA

Sheet Name:

GRADING, DRAINAGE & UTILITIES

Project Number:

Issue Date:

4/12/21

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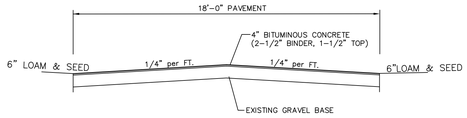
C-7

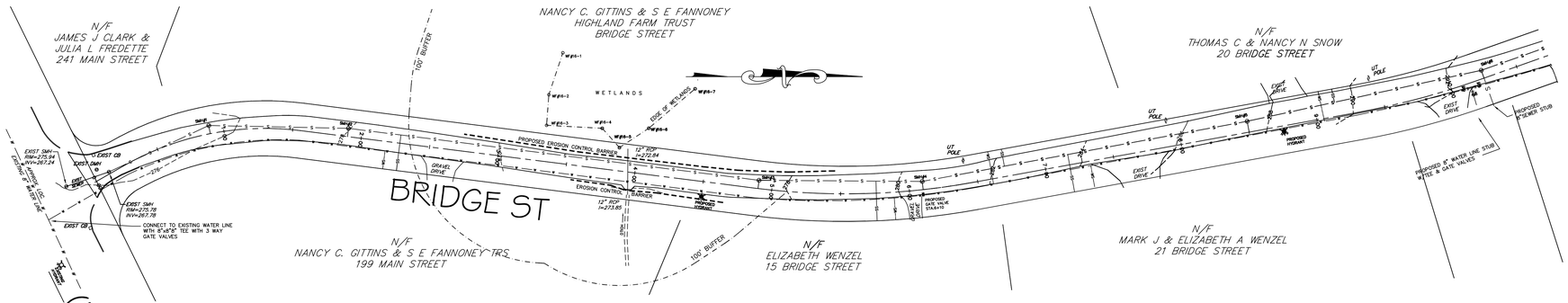
OWNER OF BRIDGE STREET

TOWN OF MILLIS



BRIDGE STREET CROSS SECTION

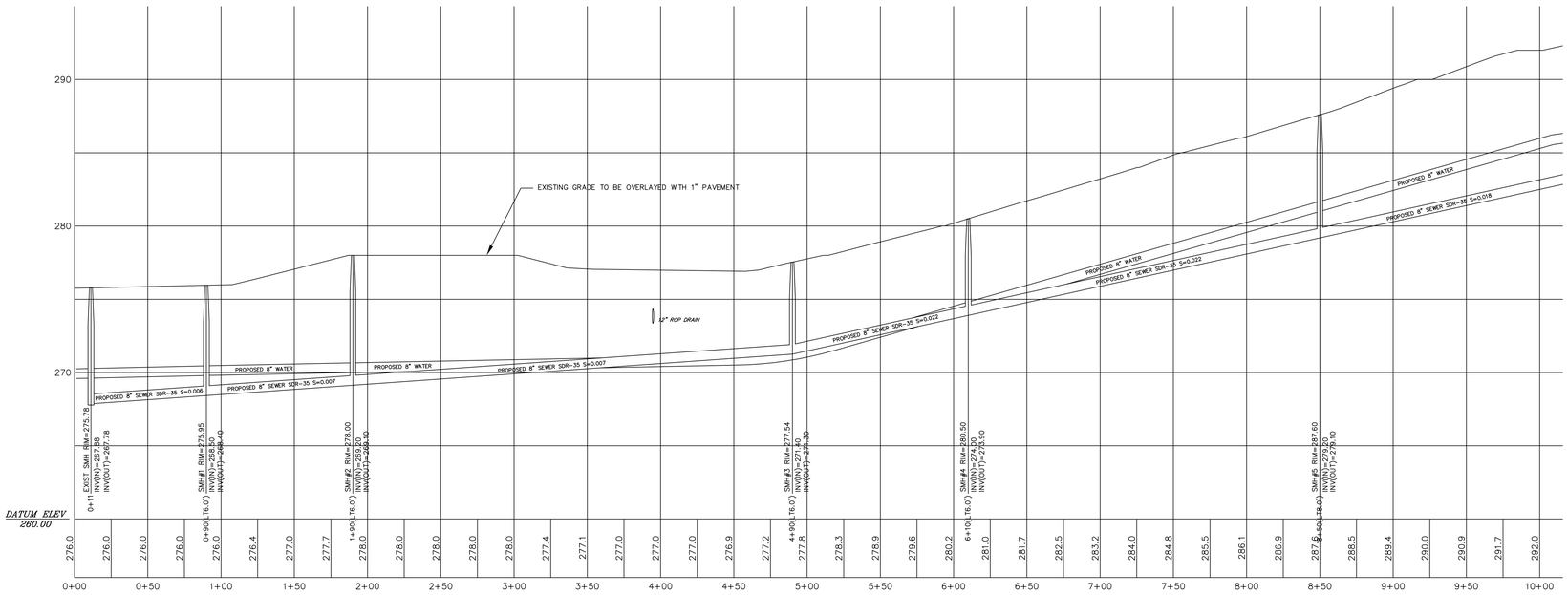
NOT TO SCALE



GENERAL NOTES:

1. PRIOR TO WORK COMMENCING SILT SACKS SHALL BE INSTALLED IN THE EXISTING CATCH BASINS LOCATED AT THE INTERSECTION OF BRIDGE AND MAIN STREET. (SEE DETAIL)
2. BRIDGE STREET SHALL BE RECONSTRUCTED ONCE ALL UTILITY INSTALLATION IS COMPLETE.
3. THE EXISTING PAVEMENT WIDTH IS 18 FEET WIDE. THE ROADWAY SHALL BE REPAVED FOR THE ENTIRE WIDTH AND MAINTAIN THE EXISTING GRAVEL BASE.
4. ROADWAY SHALL BE PAVED AS SHOWN IN CROSS SECTION.
5. THE EXISTING DRAINAGE CULVERT SHALL BE INSPECTED BY THE TOWN DURING CONSTRUCTION.
6. ADDITIONAL EROSION CONTROLS MAY BE ADDED DURING CONSTRUCTION BASED ON FIELD CONDITIONS AND AS REQUIRED BY THE CONSERVATION COMMISSION.

Bridge Street Water & Sewer Installation/Roadway Reconstruction:
- Reclaim Roadway full width 12 – 15 inch depth
- Install Sewer & Water
  - o All trench excavation shall be completed with a minimum of twelve (12) inches compacted roadway gravel base
- Finish Grade Roadway Pavement Installation
  - o Install 2 1/2 inch binder coarse full width of roadway (18' wide min.)
  - o Install 1 1/2 inch top coarse full width of roadway with twelve (12) wide monolithic berm in the areas that berm currently exists.
  - o Finish roadway width to be match existing with a minimum 18 foot wide including monolithic berm



GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

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Revision:

05/10/2021
05/24/2021
06/22/2021

Architect of Record:

Drawn:

Checked:

Scale: 1' = 30'

Key Plan:

Project Name:

ANTHOLOGY OF MILLIS

MILLIS, MA

Sheet Name:

BRIDGE STREET PLAN & PROFILE-1

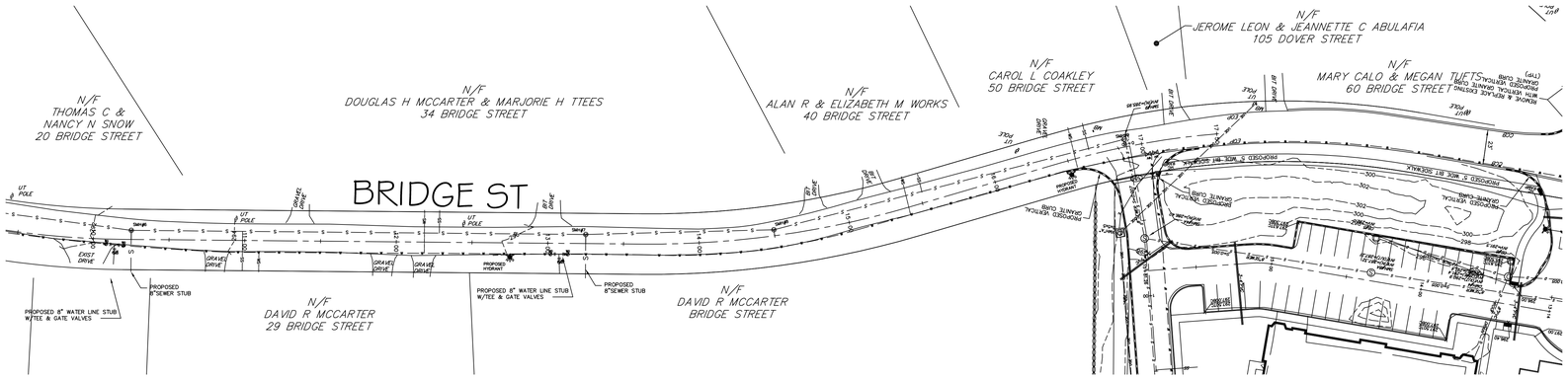
Project Number:

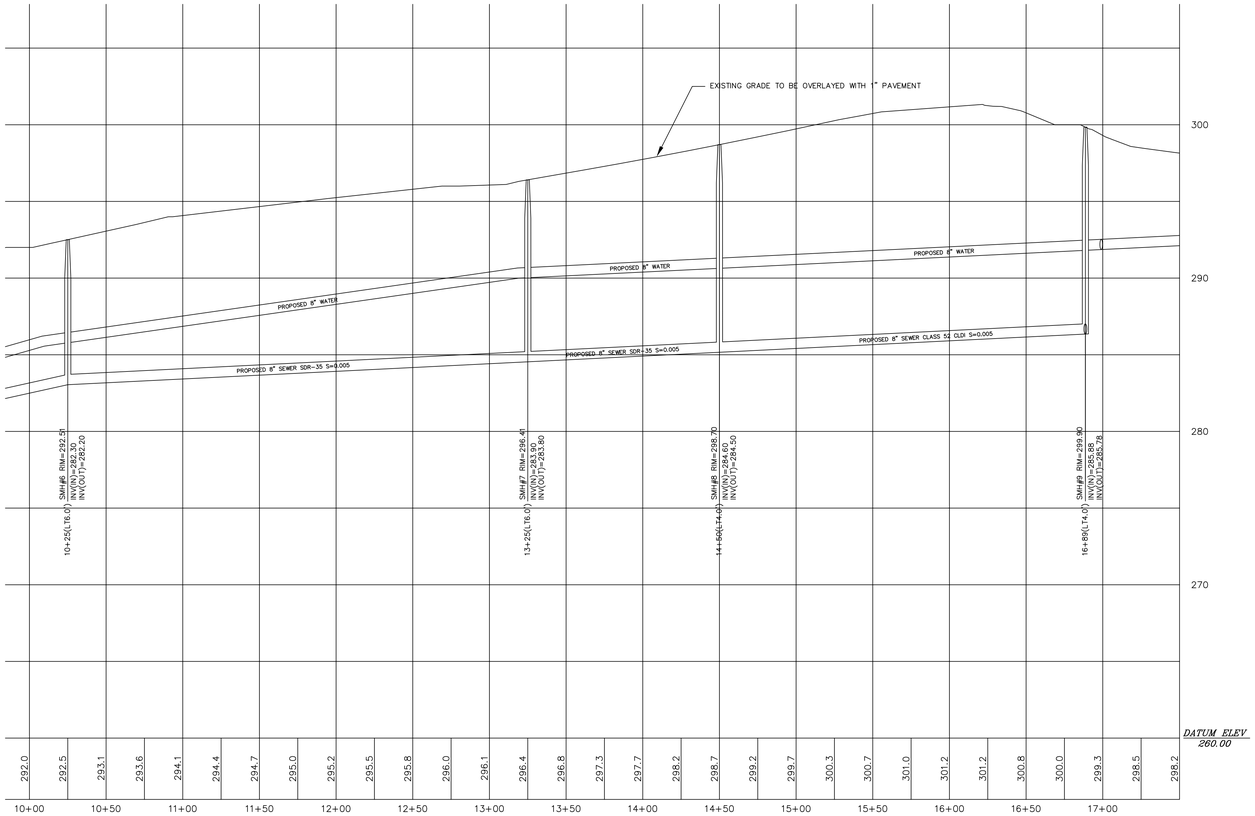
Issue Date:

4/12/21

Sheet Number:

C-8





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  - o Install 2 1/2 inch binder coarse full width of roadway (18' wide min.)
  - o Install 1 1/2 inch top coarse full width of roadway with twelve (12) wide monolithic berm in the areas that berm currently exists.
  - o Finish roadway width to be match existing with a minimum 18 foot wide including monolithic berm

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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COMMONWEALTH OF MASSACHUSETTS
ROBERT B. TRUAX
CIVIL
NO. 36667
REGISTERED PROFESSIONAL ENGINEER

Revision:

05/10/2021
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Architect of Record:

Drawn:

Checked:

Scale: 1' = 30'

Key Plan:

Project Name:

ANTHOLOGY OF MILLIS

MILLIS, MA

Sheet Name:

BRIDGE STREET
PLAN & PROFILE-2

Project Number:

Issue Date:

4/12/21

Sheet Number:

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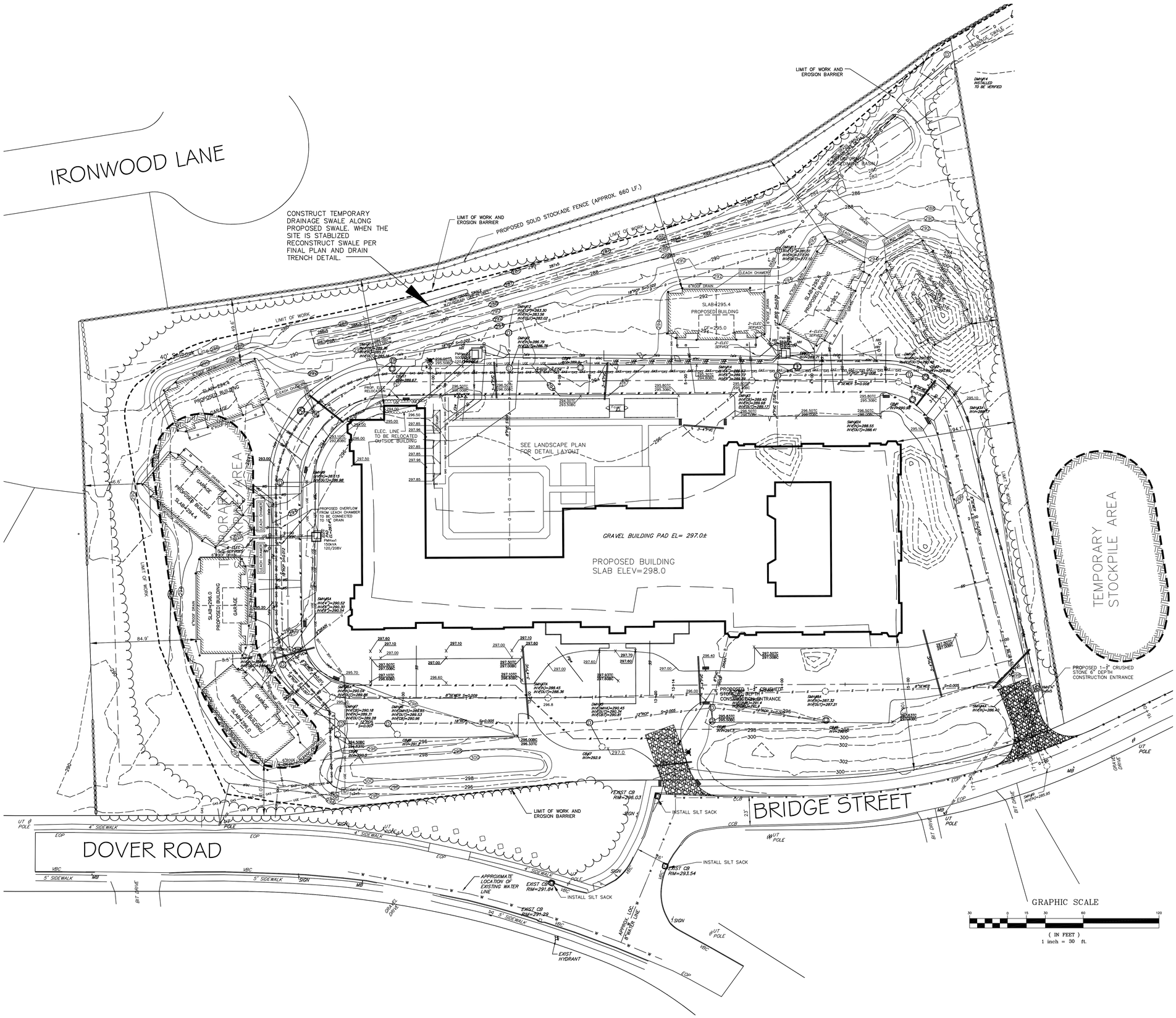

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ANTHOLOGY OF MILLIS

MILLIS, MA

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EROSION CONTOL

Project Number:

Issue Date:

4/12/21

Sheet Number:

C-10

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.

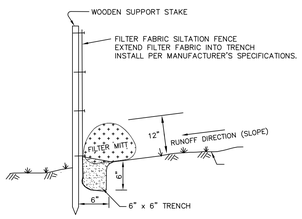
6. ALL SLOPES CAUSED BY EXCAVATION OF EXISTING GROUND, OR FILL OVER EXISTING GROUND TO CREATE BERMS OF EARTH MATERIALS OR RESULTING FROM RECONTOURING LAND FOR PROPOSED HOUSE LOCATIONS SHALL BE NO GREATER THAN 3:1, HORIZONTAL TO VERTICAL. THE TOE OF SLOPES IN FILL AREAS OR TOP OF SLOPE IN EXCAVATED AREAS 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.

8. THE INFILTRATION BASIN SHOULD NOT BE EXCAVATED TO WITHIN MORE THAN ONE (1) FOOT OF FINISHED GRADE UNTIL THE SITE IS STABILIZED WITH FINAL PLANTINGS AND PAVEMENT.

A MORE DETAILED SEDIMENT AND EROSION CONTROL PLAN WILL BE DEVELOPED AS PART OF THE NPDES STORMWATER POLLUTION PREVENTION PLAN.

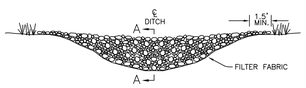
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



SEE DETAILS SHEET C-12 FOR ADDITIONAL INFORMATION

FILTER MITT WITH CONSTRUCTION FENCE DETAIL
NOT TO SCALE

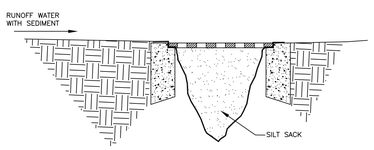
PLAN VIEW



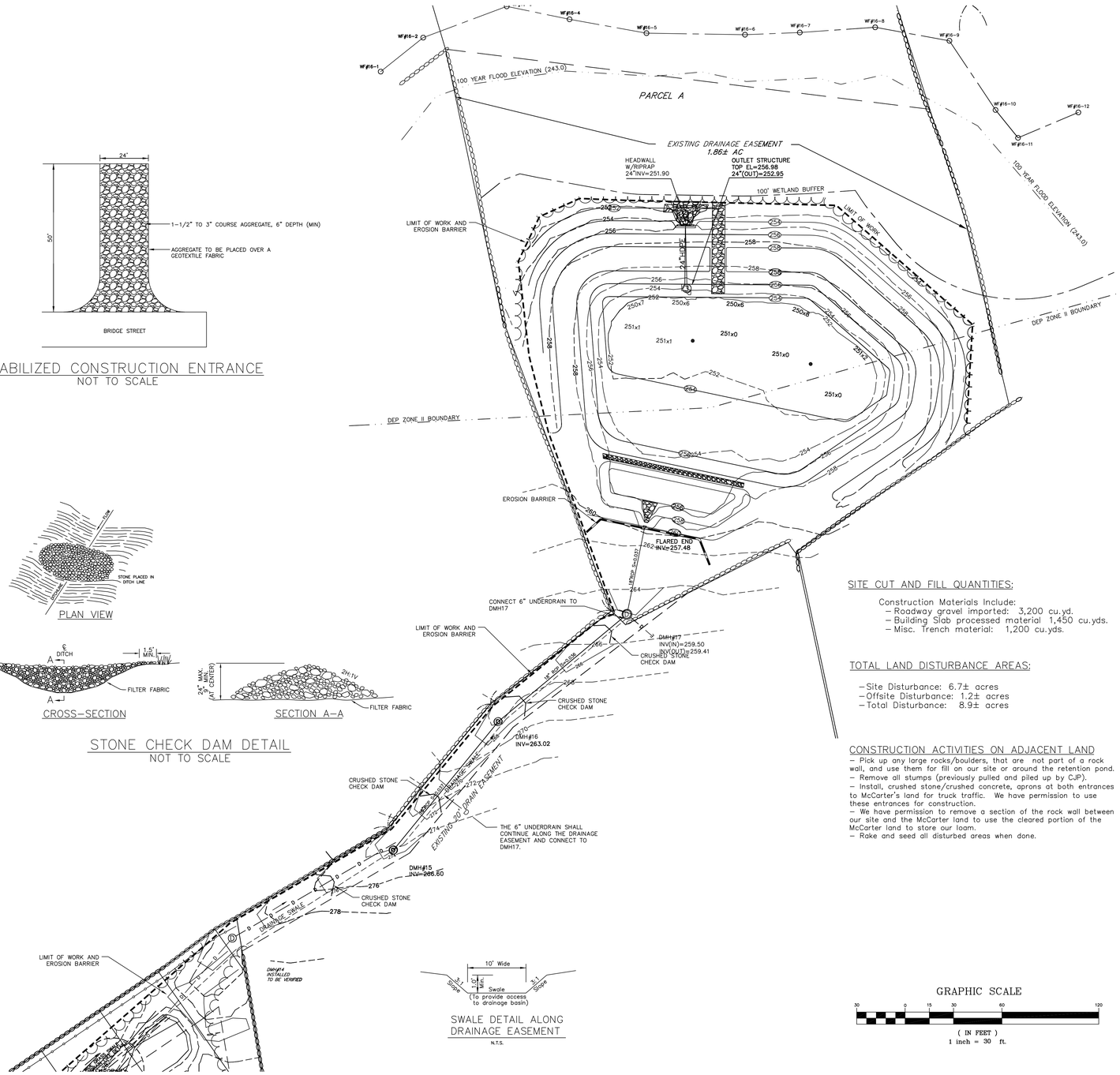
CROSS-SECTION

SECTION A-A

STONE CHECK DAM DETAIL
NOT TO SCALE



SILT SACK CATCH BASIN INLET
NOT TO SCALE



SWALE DETAIL ALONG DRAINAGE EASEMENT
N.T.S.

SITE CUT AND FILL QUANTITIES:

Construction Materials Include:
- Roadway gravel imported: 3,200 cu.yd.
- Building Slab processed material 1,450 cu.yds.
- Misc. Trench material: 1,200 cu.yds.

TOTAL LAND DISTURBANCE AREAS:

- Site Disturbance: 6.7± acres
- Offsite Disturbance: 1.2± acres
- Total Disturbance: 8.9± acres

CONSTRUCTION ACTIVITIES ON ADJACENT LAND

- Pick up any large rocks/boulders, that are not part of a rock wall, and use them for fill on our site or around the retention pond.
- Remove all stumps (previously pulled and piled up by CJP).
- Install, crushed stone/crushed concrete, aprons at both entrances to McCarter's land for truck traffic. We have permission to use these entrances for construction.
- We have permission to remove a section of the rock wall between our site and the McCarter land to use the cleared portion of the McCarter land to store our loam.
- Rake and seed all disturbed areas when done.

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

tat

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COMMONWEALTH OF MASSACHUSETTS ROBERT S. TRUAX CIVIL NO. 36687 REGISTERED PROFESSIONAL ENGINEER

Revision:

05/10/2021
05/24/2021
06/22/2021

Architect of Record:

Drawn:

Checked:

Scale: 1' = 30'

Key Plan:

Project Name:

ANTHOLOGY OF MILLIS

MILLIS, MA

Sheet Name:

EROSION CONTROL

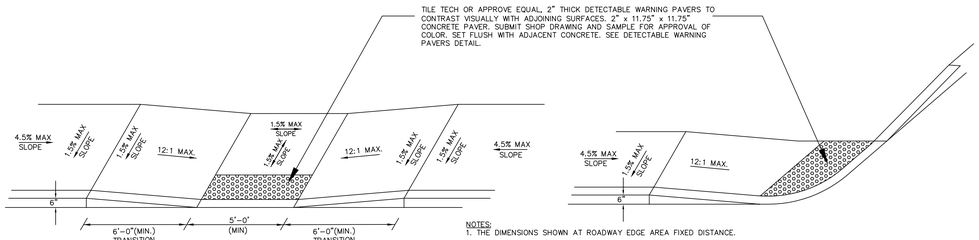
Project Number:

Issue Date:

4/12/21

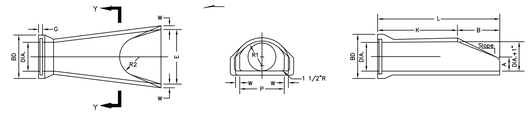
Sheet Number:

C-11



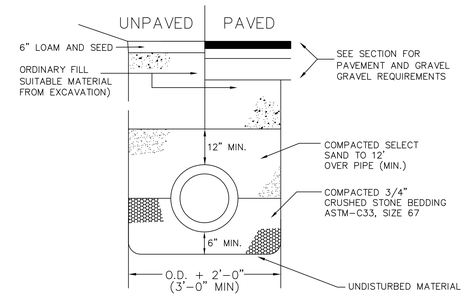
NOTES:
1. THE DIMENSIONS SHOWN AT ROADWAY EDGE AREA FIXED DISTANCE.
2. RAMP CROSS SECTION TO BE THE SAME AS ADJACENT SIDEWALK
3. PORTLAND CEMENT CONCRETE RAMPS ARE TO BE TEXTURED BY BROOMING IN A DIRECTION PARALLEL TO THE LENGTH OF THE RAMP.
4. IN NO CASE ARE THE RAMPS TO BE PLACED BEHIND THE STOP LINE.
5. THE DIMENSIONS ARE SUBJECT TO CHANGE IN THE FIELD IN EXISTING APPURTENANCES OR CONDITIONS WILL MAKE THE RAMP LOCATIONS IMPRACTICAL OR UNSAFE. CONSULT CIVIL ENGINEER PRIOR TO MAKING ANY MODIFICATIONS.

HANDICAP SIDEWALK CURB CUT DETAIL
NOT TO SCALE



DIA.	W	A	B	C	D	E	BD	K	L	P	O.D. ±1"	R1	R2	S	G	Slope
12"	2"	4"	2'-0"	6'-0 7/8"	6'-1 3/8"	2'-0"	20"	2'-8 1/8"	4'-4 1/8"	19 15/16"	13"	10 1/8"	9"	4"	2 1/2"	3:1
15"	2 1/4"	6"	2'-3"	7'-10"	6'-1 7/8"	2'-6"	24"	2'-9 7/8"	4'-6 1/8"	24 5/16"	16"	12 1/2"	11"	4"	2 1/2"	3:1
18"	2 1/2"	9"	2'-3"	9'-10"	6'-1"	3'-0"	28"	2'-11 7/8"	4'-8 1/8"	29"	19"	15 1/2"	12"	4"	2 3/4"	3:1
21"	2 3/4"	9"	2'-11"	3'-2"	6'-1"	3'-6"	32"	3'-4 5/8"	4'-10 5/8"	31 5/8"	22"	16 1/8"	13"	4"	2 3/4"	3:1
24"	3"	9 1/2"	3'-1 1/2"	2'-6"	6'-1"	4'-0"	36"	3'-0 1/2"	5'-8"	33 3/8"	25"	18 13/16"	14"	4"	3"	3:1

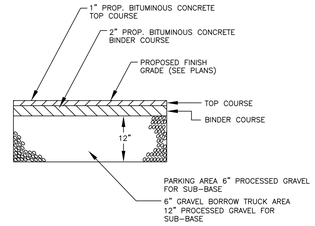
R.C.P. FLARED END SECTION DETAILS
NOT TO SCALE



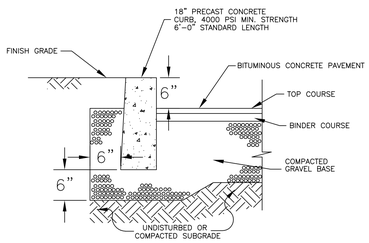
ALL DRAIN PIPE SHALL BE REINFORCED CONCRETE (RCP), CLASS III, WALL B, UNLESS OTHERWISE NOTED IN THE DRAWINGS.

SELECT SAND TO 12" ABOVE PIPE SHALL BE AS FOLLOWS :
A. 100% PASSING A 1/2 INCH SIEVE
B. 15%(MAX) PASSING A NO. 200 SIEVE
C. FREE FROM ORGANIC MATERIALS

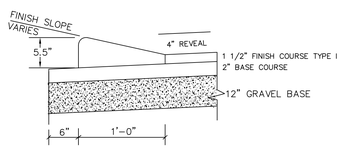
DRAIN TRENCH DETAIL
NOT TO SCALE



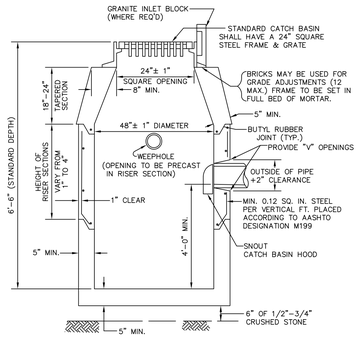
PAVEMENT SECTION
NOT TO SCALE



PRECAST CONCRETE CURB
NOT TO SCALE

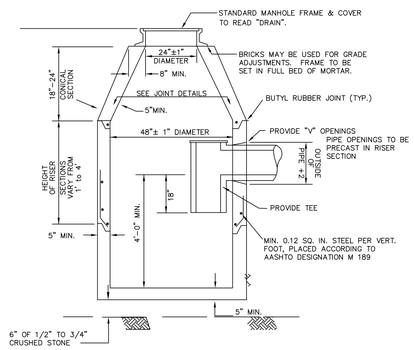


CAPE COD BERM DETAIL
NOT TO SCALE



NOTE: NO BELL ENDS IN CATCH BASIN. CONNECTIONS TO BE TIGHTLY SEALED WITH MORTAR.

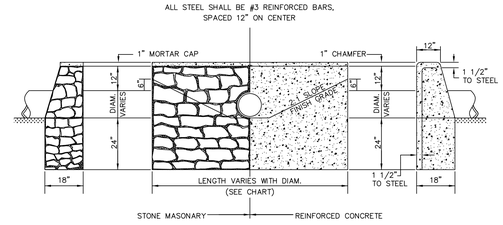
PRECAST CONCRETE CATCH BASIN DETAIL
NOT TO SCALE



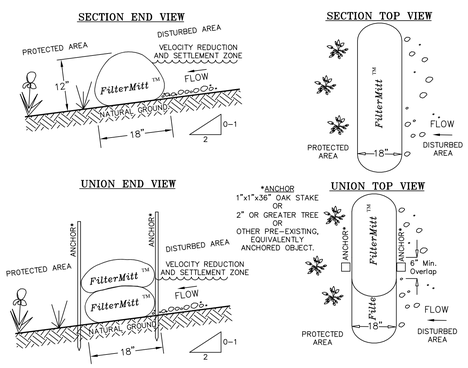
PRECAST DEEP-SUMP CONCRETE MANHOLE DETAIL
NOT TO SCALE

DIAMETER	12"	15"	16"	18"	21"	24"	30"
LENGTH	7'-6"	8'-9"	9'-2"	10'-0"	11'-6"	12'-6"	15'-0"
CONC. (Cu.Yd.)	1.49	1.82	1.94	2.18	2.62	2.97	3.86
STEEL (Lbs.)	26	29	30	32	42	46	56

ALL STEEL SHALL BE #3 REINFORCED BARS, SPACED 12" ON CENTER



HEADWALL MASONRY & CONCRETE
N.T.S.



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.

***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:
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or contact us at:
Groundscapes Express, Inc.
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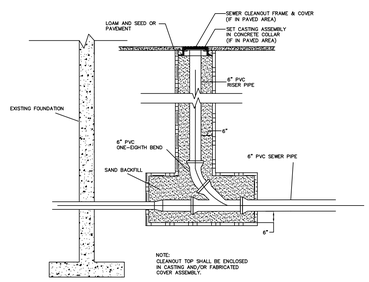
Wrentham, MA 02093
(508) 384-7140

***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'.

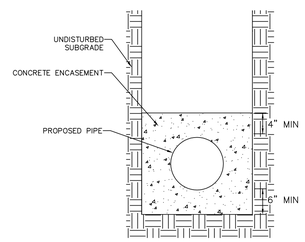
The flexibility of *FilterMitt*™ allows it to conform to any contour or terrain while holding a slightly oval shape at 12" high by 18" wide.

FILTER MITT DETAIL
NOT TO SCALE



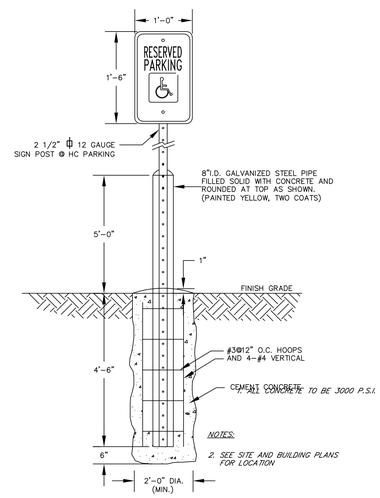
NOTES:
1. SEWER CLEANOUTS SHALL BE TYPICALLY LOCATED A MINIMUM OF 10' FROM THE FOUNDATION THE 10' ZONE SHALL BE CONSIDERED THE DISTANCE FROM THE INSIDE FACE OF THE FOUNDATION TO A DISTANCE OF 10' OUTSIDE OF THE FOUNDATION, PERPENDICULAR TO THE INSIDE FACE OF THE FOUNDATION.

SEWER CLEANOUT
NOT TO SCALE



SEWER MAIN TO BE ENCASED IN CONCRETE WHERE 10' HORIZONAL OF 18" VERTICAL SEPARATION CANNOT BE ACHIEVED

PIPE ENCASEMENT
NOT TO SCALE



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

BOLLARD
N.T.S.

tat
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COMMONWEALTH OF MASSACHUSETTS ROBERT S. TRUAN CIVIL NO. 56687 REGISTERED PROFESSIONAL ENGINEER

Revision:
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Architect of Record:

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Scale: 1' = 30'
Key Plan:

Project Name:
ANTHOLOGY OF MILLIS

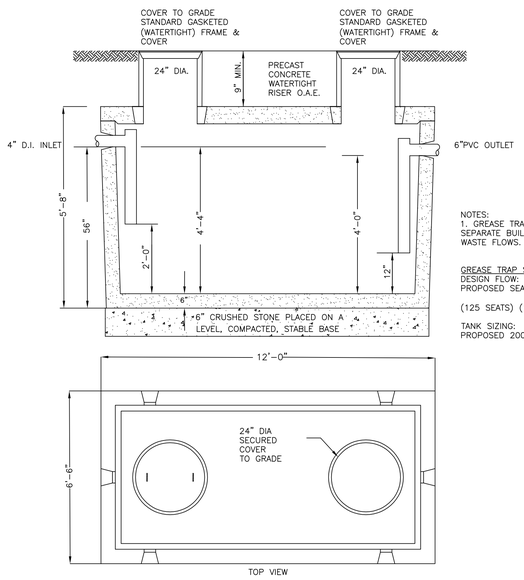
MILLIS, MA

Sheet Name:
DETAILS

Project Number:

Issue Date:
4/12/21

Sheet Number:
C-12



NOTES:
1. GREASE TRAP SHALL BE INSTALLED ON A SEPARATE BUILDING SEWER SERVING KITCHEN WASTE FLOWS.

GREASE TRAP SIZING CALCULATION:
DESIGN FLOW: 15 GALLONS PER SEAT
PROPOSED SEATING CAPACITY: 125 SEATS

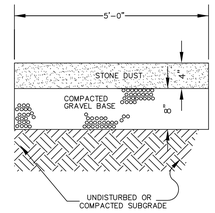
(125 SEATS) (15 GAL) = 1,875 GAL.

TANK SIZING:
PROPOSED 2000 GALLON GREASE TRAP

GREASE TRAP 2000 GALLON TANK

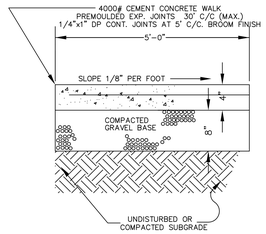
NOT TO SCALE

–TANK TO HAVE MANUFACTURERS Q/C SEAL
–WATERTIGHT CONSTRUCTION



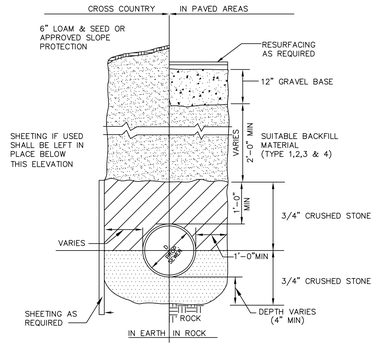
WALKING TRAIL SECTION

N.T.S.



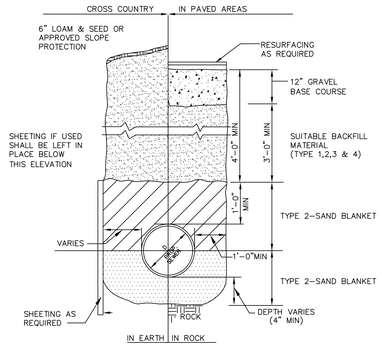
TYPICAL SIDEWALK SECTION

N.T.S.



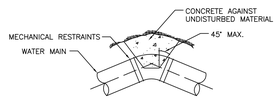
SEWER TRENCH DETAIL

NOT TO SCALE

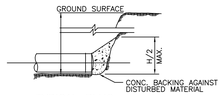


WATER TRENCH DETAIL

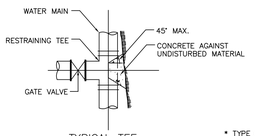
NOT TO SCALE



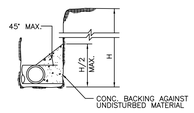
TYPICAL BEND



TYPICAL PLUG



TYPICAL TEE



TYPICAL SECTION

TABLE OF BEARING AREAS IN SQ.FT. AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS*

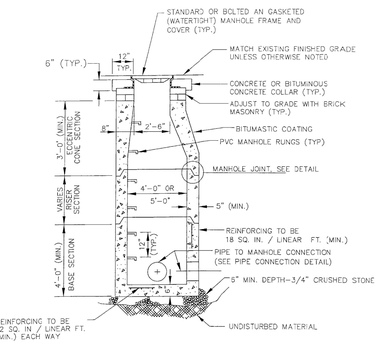
SIZE OF MAIN (IN)	90° BEND	TEES AND PLUGS	45° BEND
6	4	2.5	2
8	6	4	3
12	12	9	7
16	21	16	12

* TYPE OF SOIL IS MEDIUM CLAYEY, 6 OR MORE BLOWS PER FOOT, OR LOOSE GRANULAR, 9 OR MORE BLOWS PER FOOT. SOIL CONDITIONS OTHER THAN THOSE GIVEN WILL REQUIRE LARGER BEARING AREAS.

NOTES:
1. FOR FITTINGS WITH LESS THAN 45° DEFLECTION, USE BEARING AREAS FOR 45° BEND.
2. BEARING AREAS BASED ON HORIZONTAL PASSIVE SOIL PRESSURE OF 2000 P.S.F. AND INTERNAL WATER PRESSURE OF 150 P.S.I.G. JOINTS SHALL NOT BE ENCASED IN CONCRETE. BEARING AREAS MAY BE DISREGARDED FOR TRENCHES IN ROCK WHERE THE TOP OF THE ROCK FACE IS AT OR ABOVE THE CROWN OF THE PIPE. HOWEVER, CONCRETE BACKING SHALL BE PLACED BETWEEN THE PIPE AND THE ROCK FACE.
3. THE CONTRACTOR SHALL SUBMIT 2 WEEKS IN ADVANCE OF PLACEMENT, WORKING DRAWINGS FOR EACH THRUST BLOCK TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

TYPICAL THRUST BLOCK DETAILS

N.T.S.



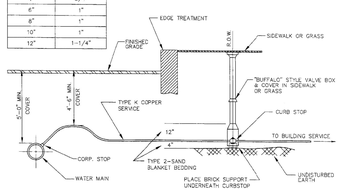
4'-0" & 5'-0" DIA. PRECAST SEWER MANHOLE DETAIL

N.T.S.

DUCTILE IRON PIPE MAXIMUM SIZE TAPPED CONNECTION *

WATER MAIN DIAMETER	MAXIMUM TAP DIAMETER
3"	3/4"
4"	3/4"
6"	1"
8"	1"
10"	1"
12"	1-1/4"

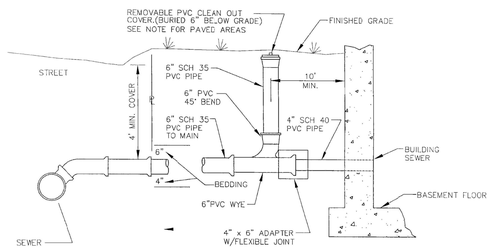
* WHERE THE SIZE OF THE CONNECTION EXCEEDS THAT GIVEN IN THE TABLE A RODS SHALL BE PROVIDED OR THE TAP SHALL BE MADE BY MEANS OF MUTIPLE CORP. STOPS AND BRANCH FITTINGS, TAPPED TEE, OR TAPPED SADDLE. TAPPING SADDLES SHALL BE USED FOR ALL SIZES OF AC AND PVC WATER MAINS



TYPICAL SERVICE CONNECTION

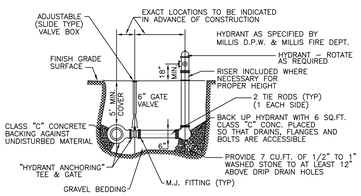
N.T.S.

CONSTRUCTION NOTES
1. MINIMUM SLOPE 1/8" PER FOOT FOR 6" PVC SEWER SERVICE
2. OUTSIDE CLEAN OUT REQUIRED IF CLEAN OUT NOT INSIDE BASEMENT
3. "GENICO" STYLE CAST IRON FRAME AND COVER REQUIRED IN PAVED AREAS. INSTALL FLUSH TO FINISHED GRADE OF PAVEMENT.
4. GREEN TRACER TAPE MARKED "CAUTION SEWER LINE BELOW" MUST BE PLACED OVER THE SEWER SERVICE AT A 16" DEPTH BELOW FINISHED GRADE
5. PIPE BEDDING TO BE 3/4" CRUSHED STONE WHEN GROUND WATER IS PRESENT AND TYPE 2 "SAND" WHEN DRY.



SEWER SERVICE LINE OUTSIDE CLEANOUT AND FITTINGS

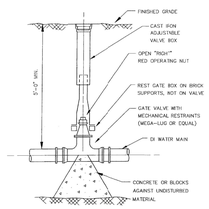
N.T.S.



NOTE:
HYDRANTS TO OPEN LEFT
DUCTILE IRON FITTINGS AND MECHAINCAL JOINTS SHALL MEET ANSI AND AWWA STANDARDS.
MECHANICAL RESTRAINTS (MEGA-LUG OR EQUAL) ARE REQUIRED AT ALL BENDS AND FITTINGS IN ADDITION TO CONCRETE THRUST BLOCKS

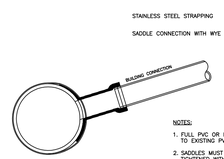
TYPICAL HYDRANT ASSEMBLY DETAIL

N.T.S.



TYPICAL GATE VALVE

N.T.S.



NOTES:
1. FULL PVC OR IRON SADDLE MAY BE USED TO CONNECT TO EXISTING PVC, CLAY, CONCRETE, OR IRON PIPE.
2. SADDLES MUST HAVE RUBBER GASKETS AND SHALL BE TIGHTENED WITH STRAPS. SADDLES WILL NOT BE CEMENTED ONTO THE PIPE.
3. FULL WYE CONNECTION FITTINGS MAY BE USED
4. PIPE SHALL BE CUT TO CONFORM TO THE OPENING IN THE SADDLE.
5. CONNECTIONS DIRECTLY INTO THE EXISTING PIPE WITHOUT A SADDLE OR A FULL WYE FITTING ARE NOT ALLOWED.

TYPICAL IN-LINE DRAIN/SEWER CONNECTION

N.T.S.

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Revision:

05/10/2021
~~05/24/2021~~
06/22/2021

Architect of Record:

Drawn:

Checked:

Scale: 1' = 30'

Key Plan:

Project Name:

ANTHOLOGY OF MILLIS

MILLIS, MA

Sheet Name:

DETAILS

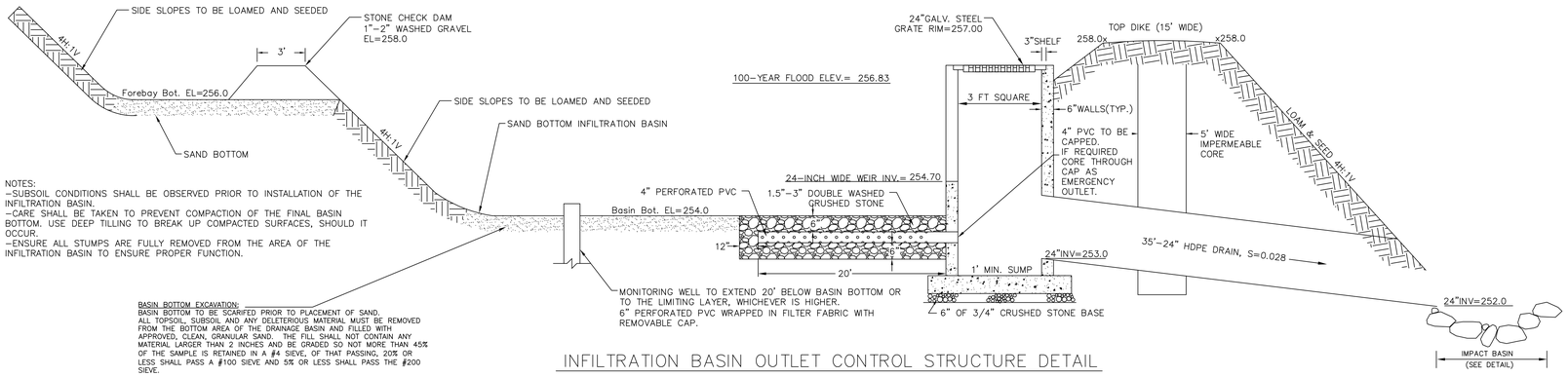
Project Number:

Issue Date:

4/12/21

Sheet Number:

C-13



INFILTRATION BASIN OUTLET CONTROL STRUCTURE DETAIL

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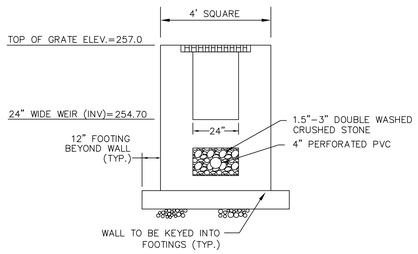


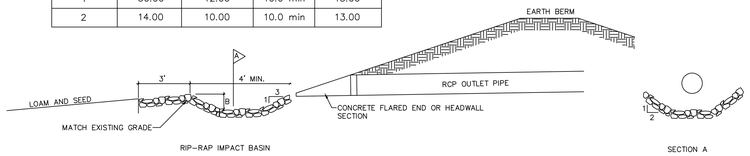
OUTLET CONTROL STRUCTURE

(PRECAST CONCRETE STRUCTURE)

NOT TO SCALE

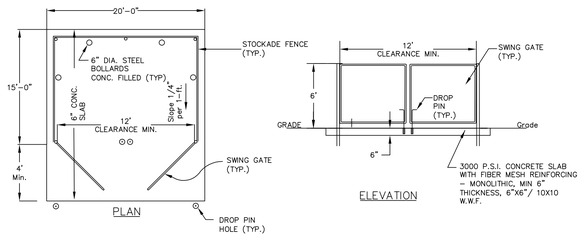
IMPACT BASIN SIZING

OUTLET #	DEPTH "B" (INCHES)	RIP–RAP SIZE D50 (IN.)	APRON LENGTH(FT)	APRON END WIDTH (FT)
1	30.00	12.00	10.0 min	13.00
2	14.00	10.00	10.0 min	13.00



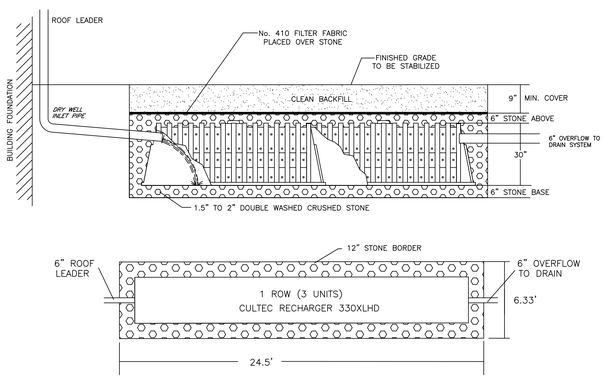
RIP–RAP IMPACT BASIN AT OUTLETS

NOT TO SCALE



DUMPSTER SCREENING

NOT TO SCALE



DRAINAGE SYSTEM CALCULATIONS

PROPOSED ROOF AREA = 2235 S.F.

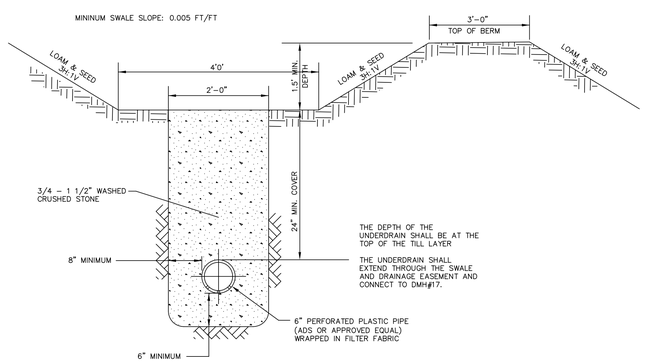
VOLUME REQUIRED FOR 1" OF RUNOFF OVER ROOF AREA:
2235 S.F. x 1" = 186 C.F.

DRAINAGE SYSTEM:
CULTEC CHAMBERS – RECHARGER 330 WITH STONE
CHAMBER STORAGE VOLUME = 167.6 CU.FT.
STONE STORAGE VOLUME = 152.8 CU.FT.
TOTAL STORAGE WITH STONE = 320.4 CU.FT.

ALL ROOF RUNOFF FROM COTTAGE BUILDINGS TO BE DIRECTED TO CULTEC LEACHING SYSTEM. ONE SYSTEM PER BUILDING.

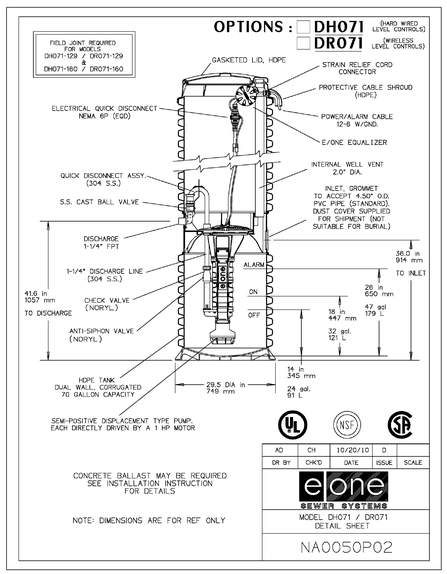
CULTEC LEACHING SYSTEM
FOR ROOF RUNOFF INFILTRATION
CULTEC RECHARGER 330XLHD

N.T.S.



DRAIN TRENCH W/TRENCH DRAIN

NOT TO SCALE



E–ONE PUMP DETAIL

NOT TO SCALE

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Project Number:

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4/12/21

Sheet Number:

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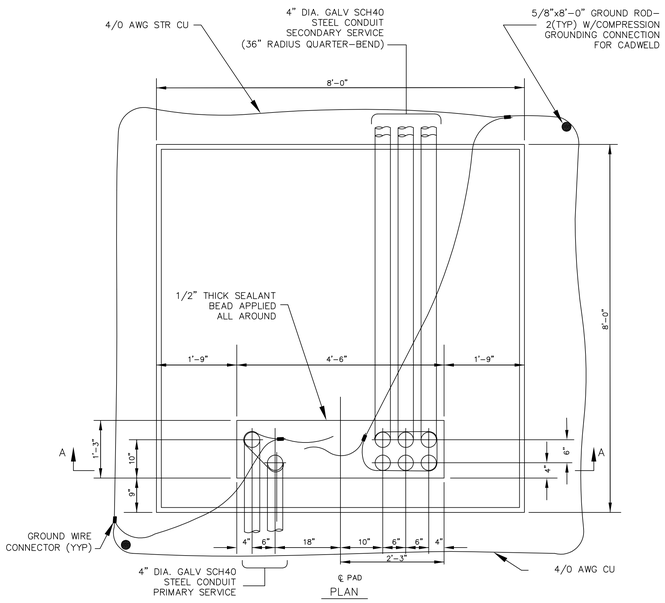
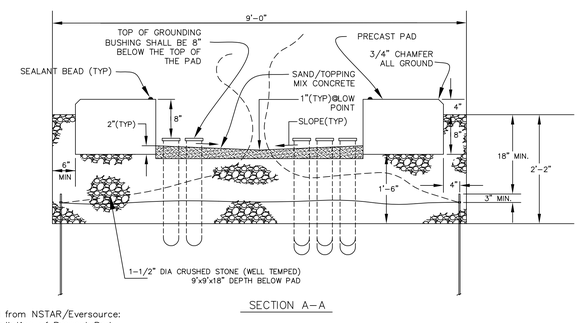


PLAN

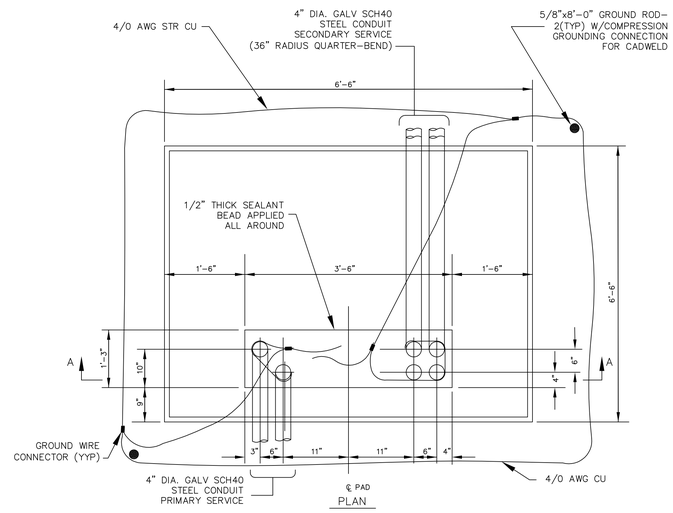


SECTION A–A

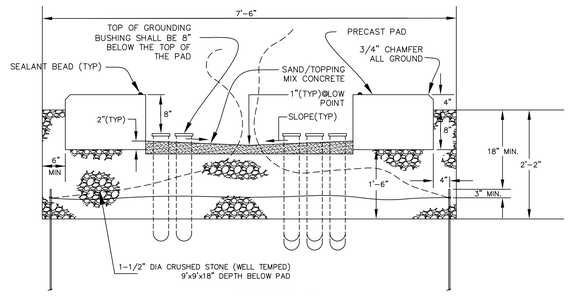
NOTE:
Detail obtained from NSTAR/Eversource:
'C3801 R2 Installation of Precast Pad
Foundations for Three-Phase Transformers',
date revised 27-Jan-09

PAD#2: THREE PHASE 500–2,500 kVA TRANSFORMER PRECAST PAD INSTALLATION AND GROUNDING DETAIL

NOT TO SCALE



PLAN



SECTION A–A

NOTE:
Detail obtained from NSTAR/Eversource:
'C3801 R2 Installation of Precast Pad
Foundations for Three-Phase Transformers',
date revised 27-Jan-09

PAD#1: THREE PHASE 75–300 kVA TRANSFORMER PRECAST PAD INSTALLATION AND GROUNDING DETAIL

NOT TO SCALE
PAD#1 INSTALLED AT BUILDINGS 2 & 3

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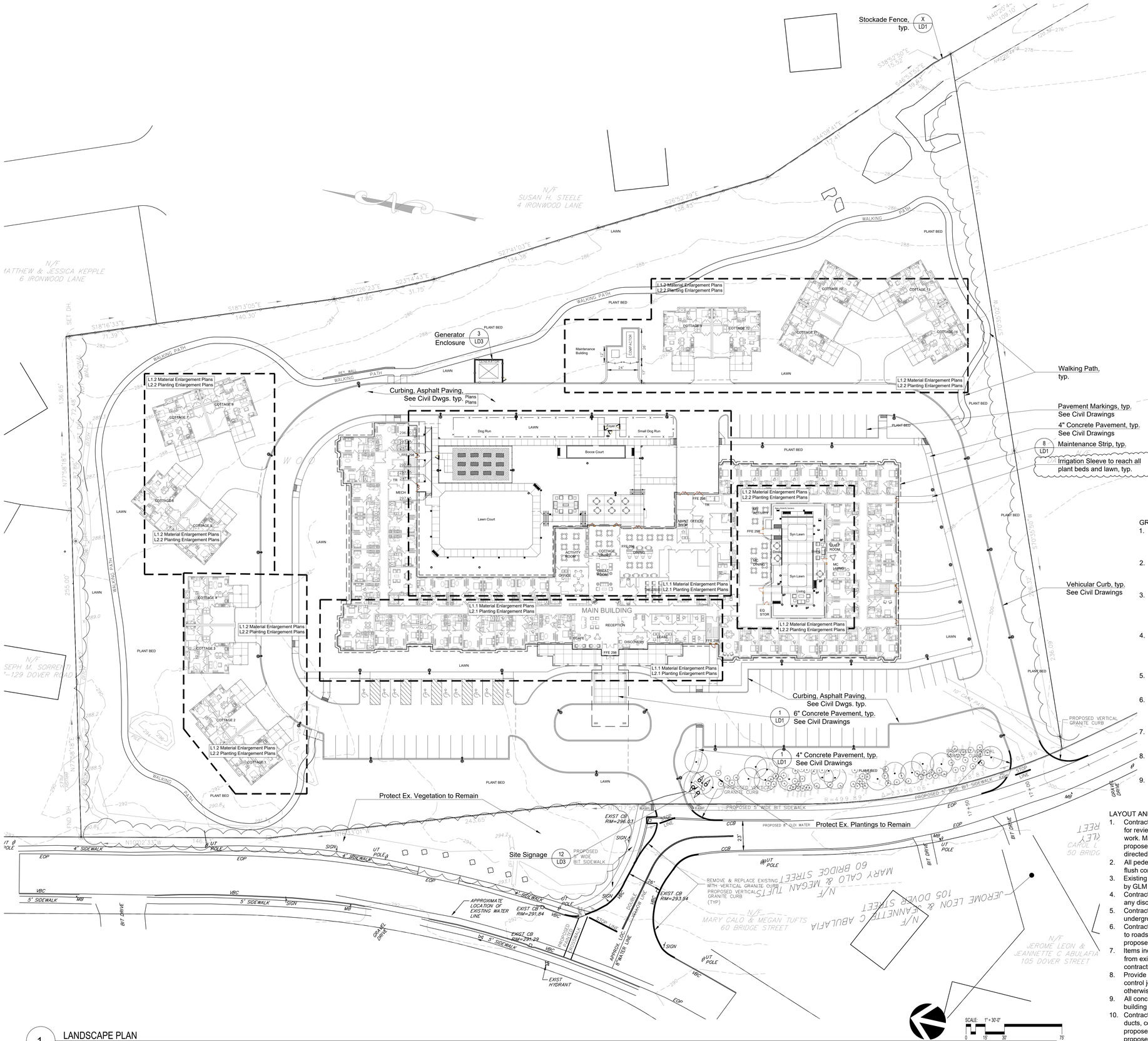
Issue Date:

4/12/21

Sheet Number:

C-15



1 LANDSCAPE PLAN
SCALE: 1"=30'-0"

IRRIGATION NOTES

1. Permanent irrigation systems required for all planting areas including planters. Provide irrigation sleeves below hardscape elements to reach all planted areas and winterization appurtenances as noted on Planting Plan. See specifications.

GRADING NOTES

1. The Contractor shall verify all existing conditions and grades in the field. Report discrepancies immediately to Architect for decision prior to construction.
2. The Contractor shall fully coordinate grading with drainage, grading and utility plans by Civil Engineer and the Plumbing drawings and report any discrepencies to Architect for resolution.
3. The Contractor shall layout and determine the elevations of all site elements and proposed utilities for approval by Architect prior to the start of construction. The Contractor shall report any discrepancies in writing to the Architect.
4. Contractor shall provide rounding at abrupt changes in grade. Where proposed grades meet existing, Contractor shall blend grades to provide a smooth transition between new and existing work.
5. Grade surfaces to assure positive drainage away from all architecture and to prevent puddling of surface drainage.
6. Pitch evenly between spot grades. All paved areas must pitch to drain at a minimum 1/8" per foot. Any discrepancies not allowing this to occur shall be reported to the Architect.
7. Finish grades, contours, and elevations indicated on this plan describe final surface elevations for completed construction.
8. All pedestrian walkway surfaces shall be sloped a maximum of 5%. Any walkways exceeding this slope shall be reported to the Architect.
9. All walkway intersections, thresholds, and top & bottom of steps & ramps shall be sloped less than 2% for 5' in all directions.

LAYOUT AND MATERIALS NOTES

1. Contractor shall lay out paths, walls and site improvements for review by the Architect prior to proceeding with the work. Make adjustments to layout as directed. Provide proposed grades at all corners and site features as directed.
2. All pedestrian walkways and patios on one level plane: flush condition between all changes in paver/paving styles.
3. Existing conditions information is from a survey performed by GLM Engineering Consultants, Inc. and dated X.
4. Contractor shall verify all conditions in the field and report any discrepancies to the architect prior to starting work.
5. Contractor shall notify digsafe 1-888-dig-safe and verify underground utilities prior to excavation.
6. Contractor is responsible for repairing any damage caused to roads, walks, utilities, site improvements, existing or proposed, damaged by this project.
7. Items indicated as "relocated" are salvaged and stored from existing site are to be installed by the general contractor.
8. Provide expansion joints in concrete walks at 20' o.c. and control joints at 5' o.c. as per specifications, unless otherwise noted on drawings.
9. All concrete pads at exterior doors shall be pinned to building foundation, refer to structural drawings.
10. Contractor shall coordinate location of all utilities (lines, ducts, conduits, sleeves, footings, etc.) with locations of proposed landscape elements (walls, tree rootballs, proposed lighting footings, etc.). contractor shall report any discrepancies to the architect prior to continuing work..
11. All lines are parallel or perpendicular to lines from which they are measured, unless otherwise noted. dimensions are to face of wall, to face of curb; to edge of pavement; to edge of improvement or as otherwise noted.
12. All pedestrian walkways and patios on one level plane: flush condition between all changes in paver/paving styles.

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3.	6-15-2021	Issued for Permit
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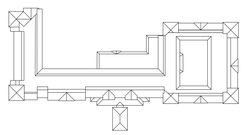
Drawn: WK | KC | NA

Checked: KP

Scale: As Noted

Key Plan:



Project Name:

Millis AL

125 DOVER ROAD
MILLIS, MA 02054

Sheet Name:

L SERIES
MATERIAL + LAYOUT PLAN

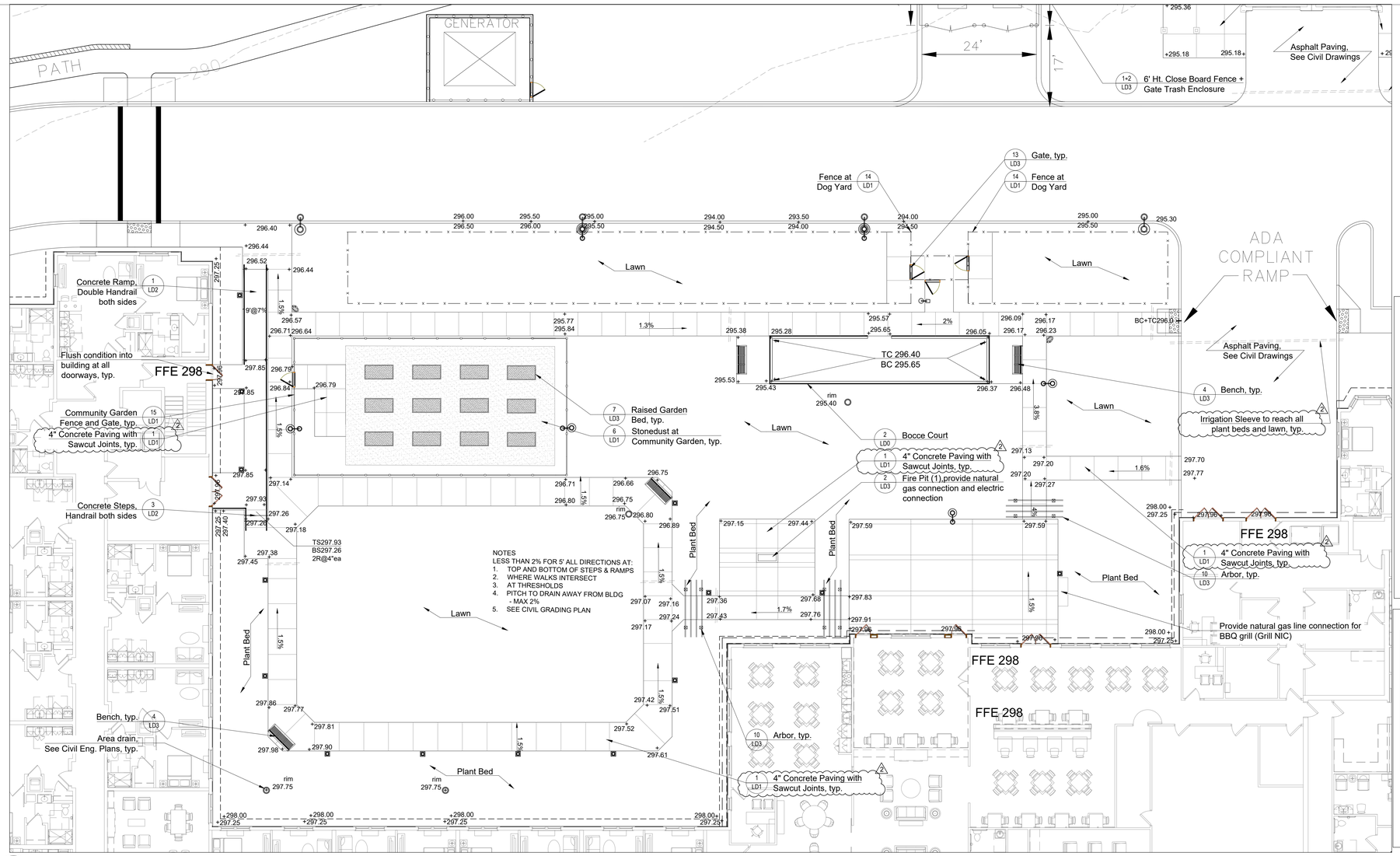
Project Number:

Issue Date:

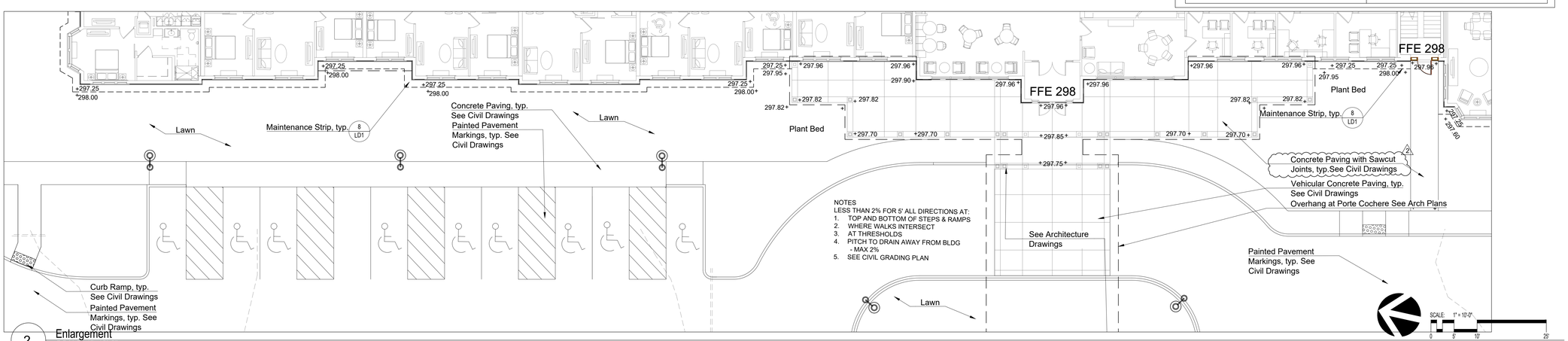
4/12/21 PERMIT

Sheet Number:

L1.0



1 Enlargement
SCALE: 1"=10'-0"



2 Enlargement
SCALE: 1"=10'-0"

GRADING LEGEND:

114	EXISTING CONTOUR
114	PROPOSED CONTOUR
(114.25)	EXISTING SPOT ELEVATION
114.25	PROPOSED SPOT ELEVATION
	PERFORATED UNDERDRAIN
1%	PROPOSED SLOPE
TC BC	TOP OF CURB BOTTOM OF CURB
TW BW	TOP OF WALL BOTTOM OF WALL
TS BS	TOP OF STAIR BOTTOM OF STAIR
CB	CATCH BASIN
YD	YARD DRAIN
HP	HIGH POINT

LAYOUT LEGEND:

℄	CENTERLINE
	ALIGN
P.O.B.	POINT OF BEGINNING
8'	DIMENSION
R5'	RADIUS = 5'
TYP.	TYPICAL
EQ.	EQUAL
V.I.F.	VERIFY IN FIELD

MATERIAL LEGEND:

4" CONCRETE PAVING EJ=Expansion Joint	1 LD1	COMMUNITY GARDEN FENCE	15 LD1
UNIT PAVING	4 LD1	BLACK VINYL CHAINLINK AT DOG YARD	14 LD1
IRRIGATION SLEEVES, SEE SPECIFICATIONS		ARBOR	10 LD3
MAINTENANCE EDGE	8 LD1	BENCH	4 LD3
RAISED BED AT COMMUNITY GARDEN	7 LD3		

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Revision:

2	5-10-2021	Value Engineering
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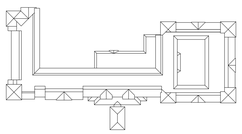
	6-21-2021	Revisions for Permit

Architect of Record:

Drawn: WK | KC | NA
Checked: KP
Scale: As Noted
Key Plan:



Project Name:
Millis AL

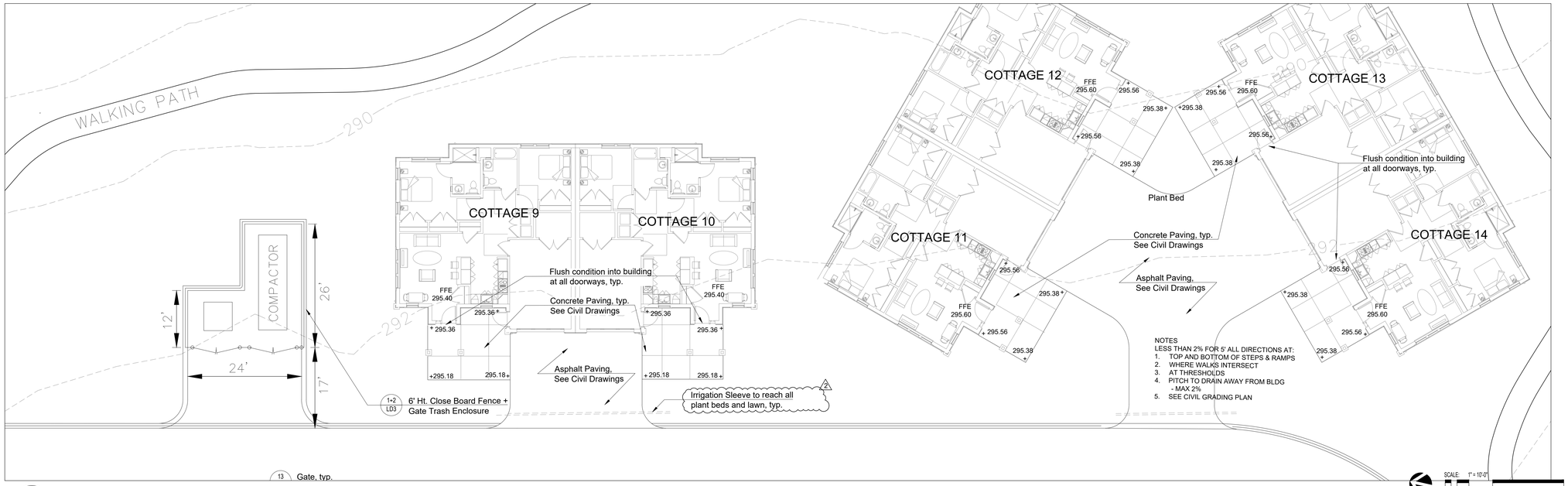
125 DOVER ROAD
MILLIS, MA 02054

Sheet Name:
L SERIES
MATERIAL + SPOT
GRADING
ENLARGEMENT PLAN

Project Number:

Issue Date:
4/12/21 PERMIT

Sheet Number:
L1.1



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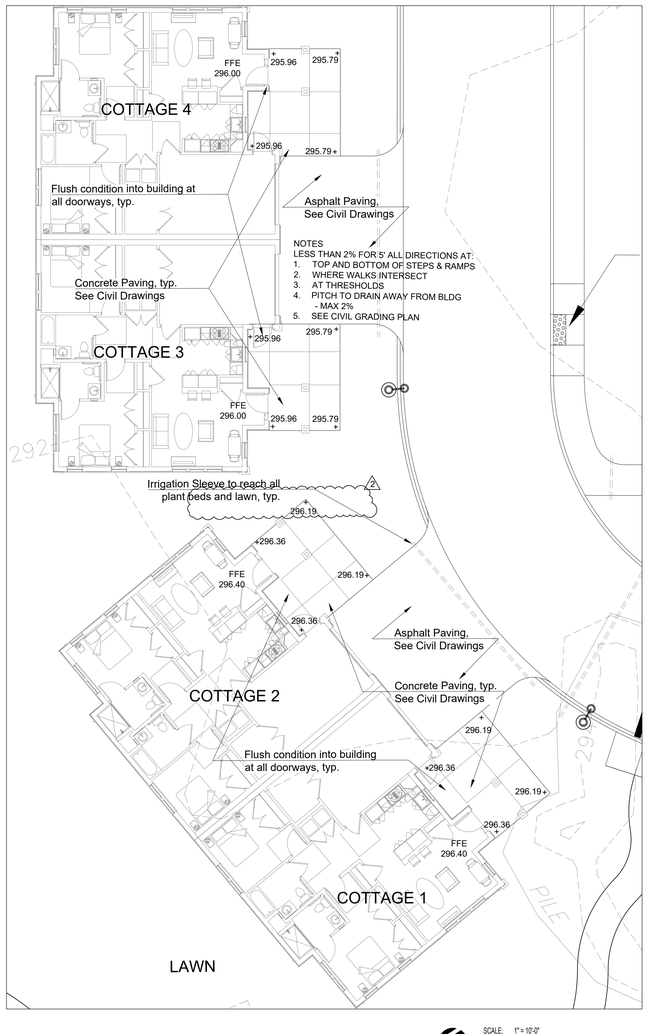

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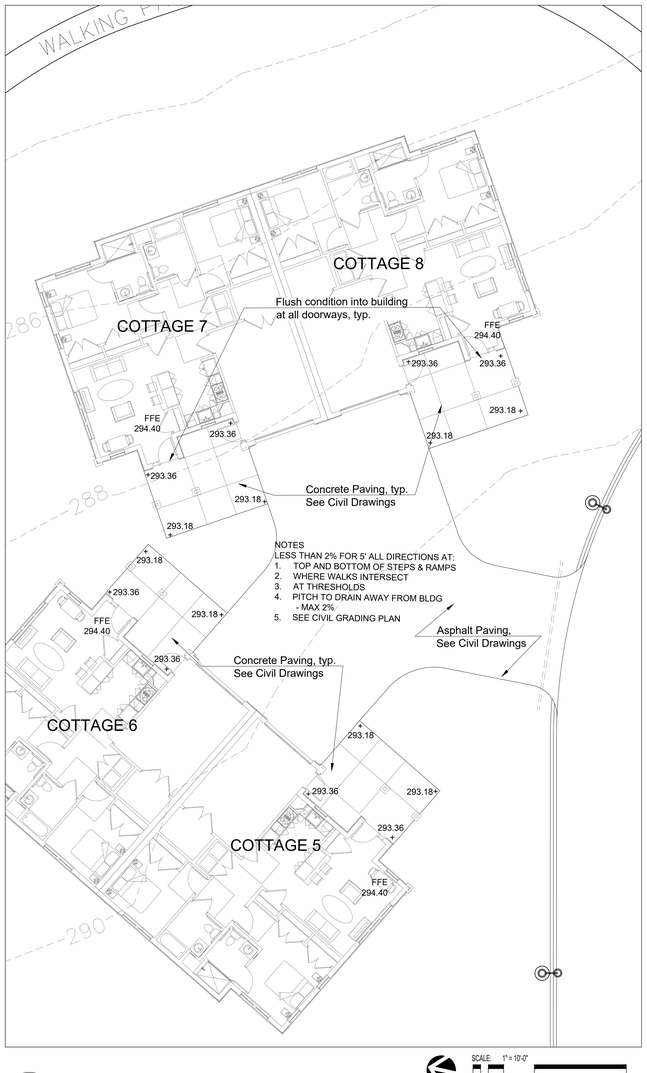

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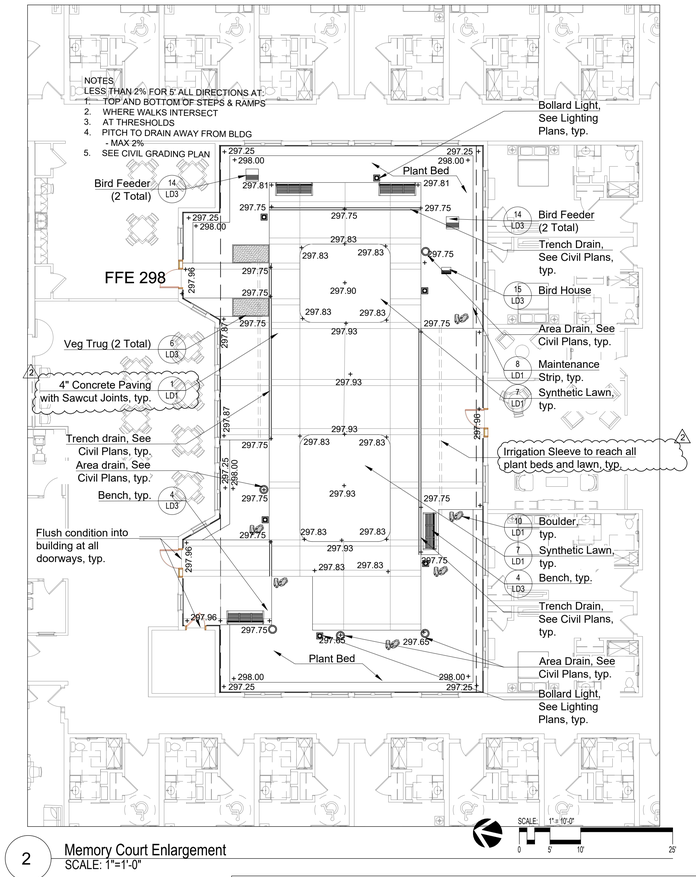
SCALE: 1"=1'-0"



2 Memory Court Enlargement
SCALE: 1"=1'-0"

MATERIAL LEGEND:

4" CONCRETE PAVING EJ=Expansion Joint	1 LD1	COMMUNITY GARDEN FENCE	15 LD1
UNIT PAVING	4 LD1	BLACK VINYL CHAINLINK AT DOG YARD	14 LD1
IRRIGATION SLEEVES, SEE SPECIFICATIONS	2	ARBOR	10 LD3
MAINTENANCE EDGE	8 LD1	BENCH	4 LD3
RAISED BED AT COMMUNITY GARDEN	7 LD3		

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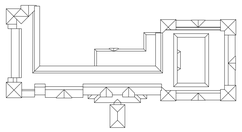

Project Name:
Millis AL

125 DOVER ROAD
MILLIS, MA 02054

Sheet Name:
L SERIES
MATERIALS + SPOT
GRADING
ENLARGEMENT PLAN

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Issue Date:
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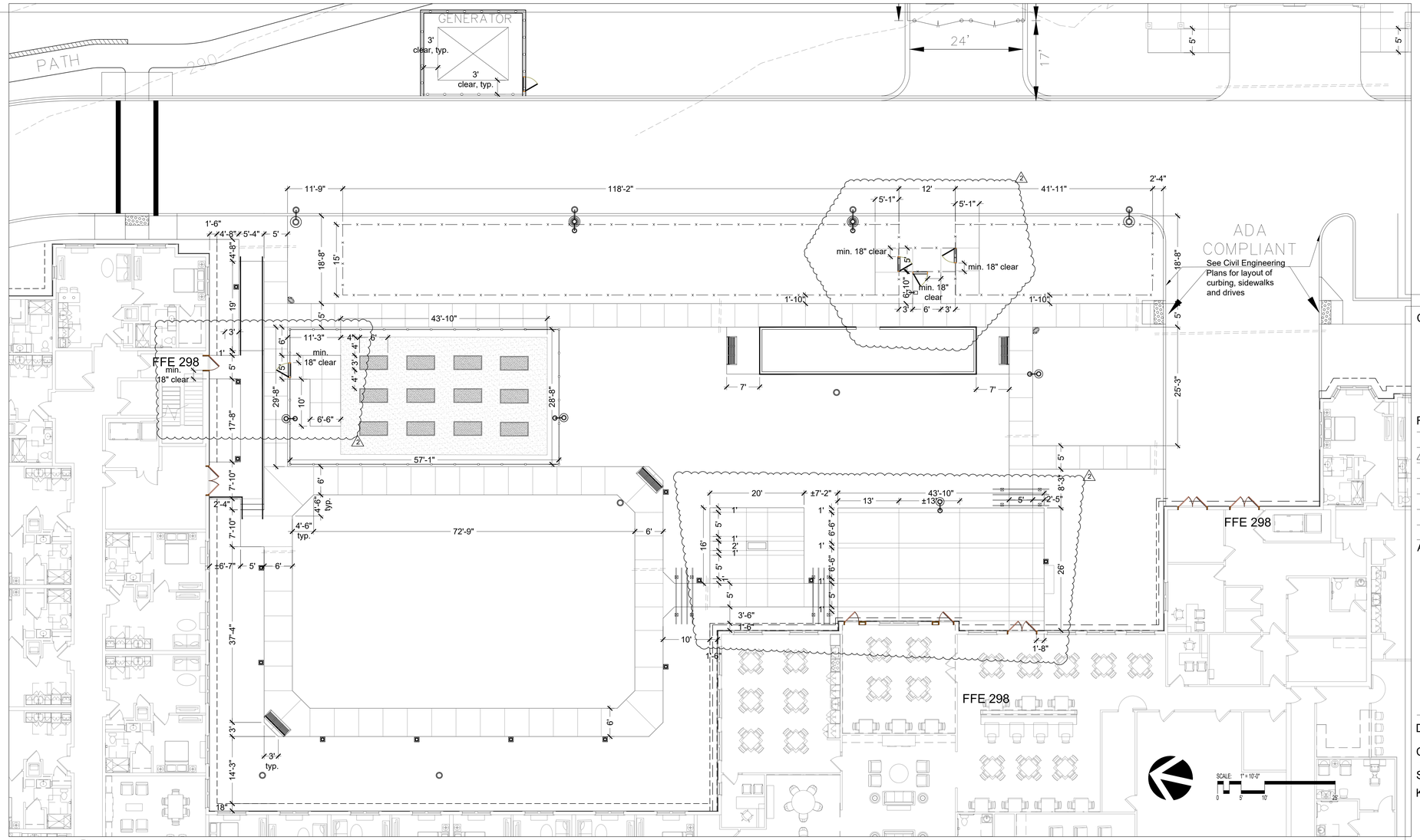
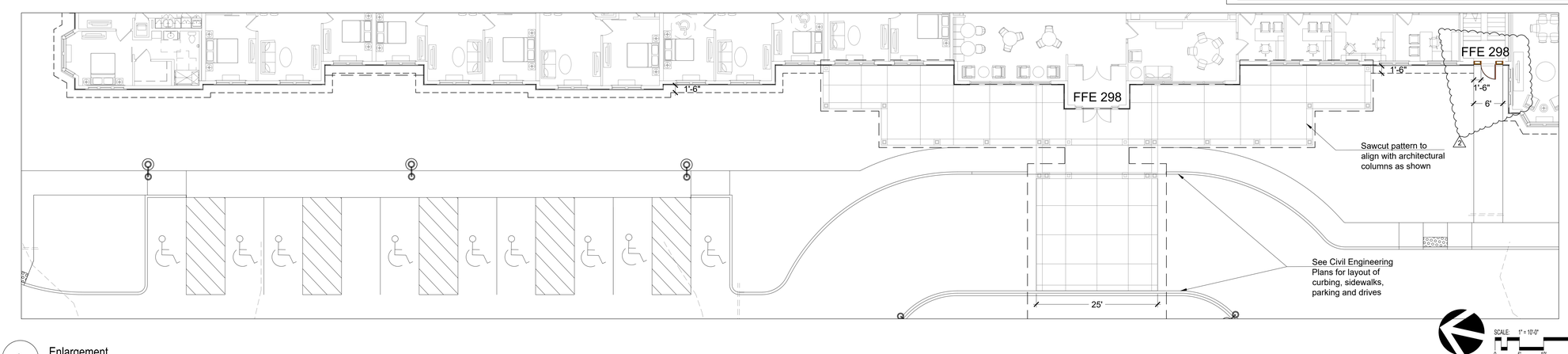


1 Enlargement
SCALE: 1"=10'-0"

MATERIAL LEGEND:

4" CONCRETE PAVING E.J=Expansion Joint	1 LD1	COMMUNITY GARDEN FENCE	15 LD1
UNIT PAVING	4 LD1	BLACK VINYL CHAINLINK AT DOG YARD	14 LD1
IRRIGATION SLEEVES, SEE SPECIFICATIONS		ARBOR	10 LD3
MAINTENANCE EDGE	8 LD1	BENCH	4 LD3
RAISED BED AT COMMUNITY GARDEN	7 LD3		



2 Enlargement
SCALE: 1"=10'-0"

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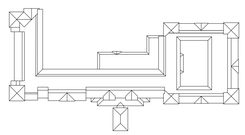

Project Name:

Millis AL

125 DOVER ROAD
MILLIS, MA 02054

Sheet Name:

L SERIES
LAYOUT
ENLARGEMENT PLAN

Project Number:

Issue Date:

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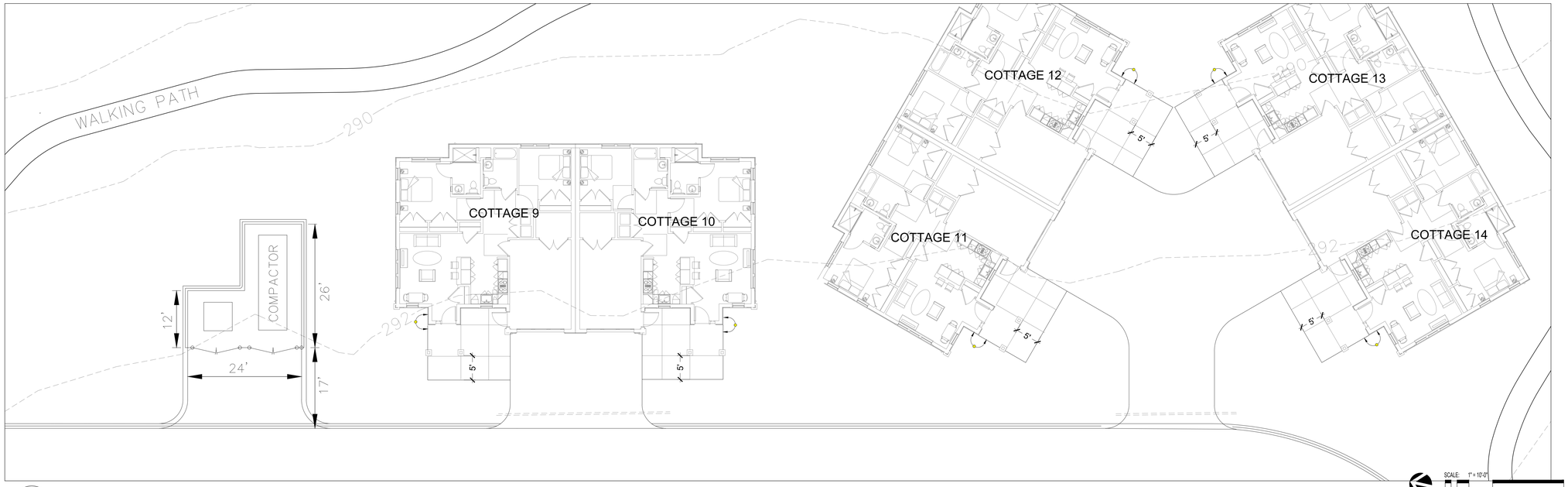
Sheet Number:

L2.0



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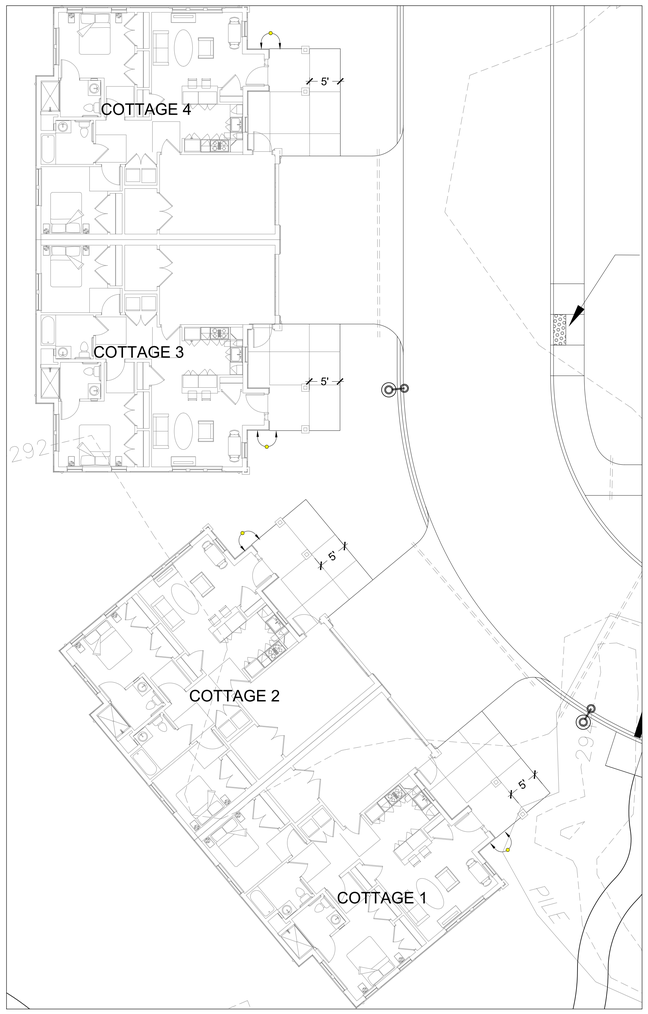
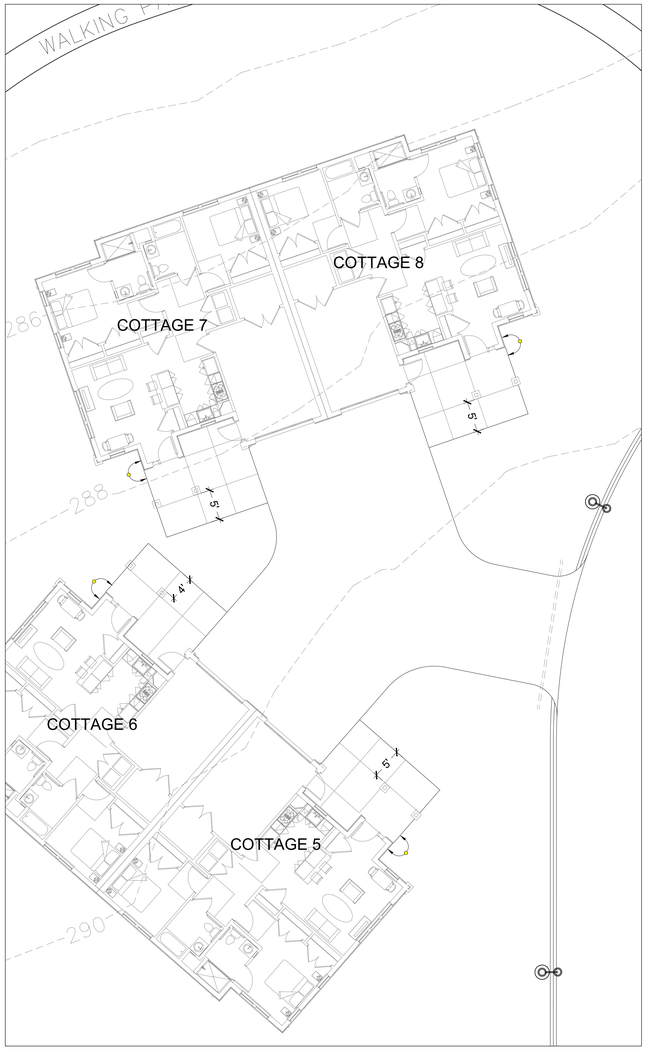


4 Enlargement
SCALE: 1"=1'-0"



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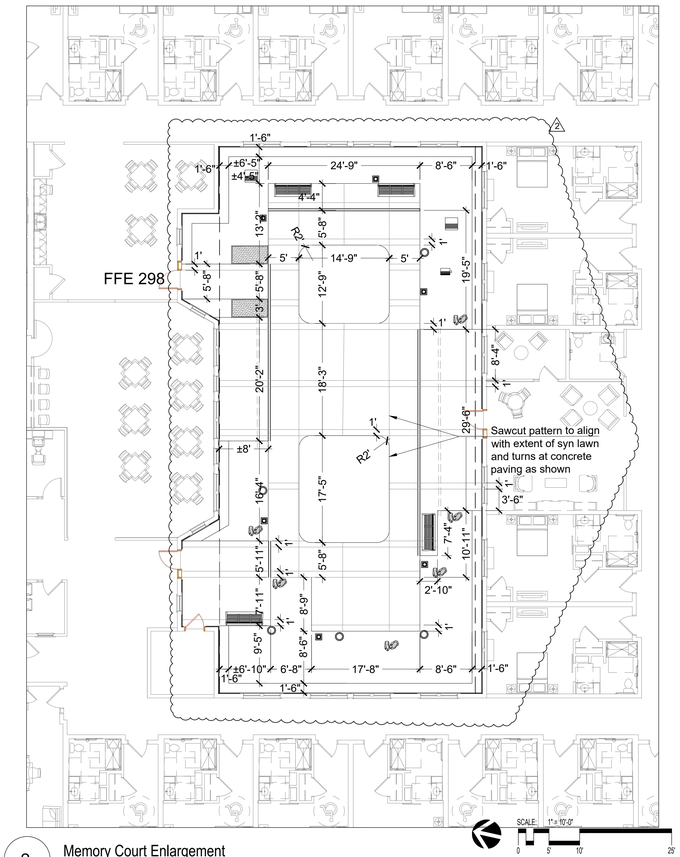
SCALE: 1"=1'-0"



2 Memory Court Enlargement
SCALE: 1"=1'-0"

MATERIAL LEGEND:

4" CONCRETE PAVING EJ=Expansion Joint	1 LD1	COMMUNITY GARDEN FENCE	15 LD1
UNIT PAVING	4 LD1	BLACK VINYL CHAINLINK AT DOG YARD	14 LD1
IRRIGATION SLEEVES, SEE SPECIFICATIONS		ARBOR	10 LD3
MAINTENANCE EDGE	8 LD1	BENCH	4 LD3
RAISED BED AT COMMUNITY GARDEN	7 LD3		

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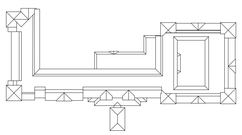
Checked: KP
Scale: As Noted
Key Plan:



Project Name:
Millis AL

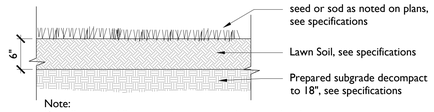
125 DOVER ROAD
MILLIS, MA 02054

Sheet Name:
L SERIES
LAYOUT
ENLARGEMENT PLAN

Project Number:

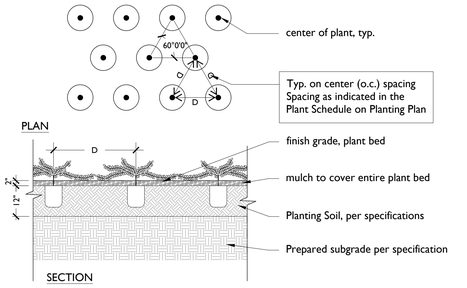
Issue Date:
4/12/21 PERMIT

Sheet Number:
L2.1



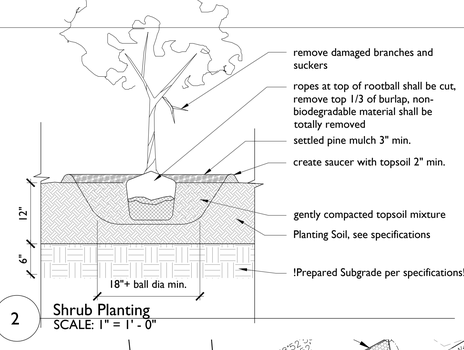
Note:
If seeding or sodding operations are completed too late in the fall for adequate growth of grass, then maintenance shall continue into the following spring, or until final acceptance, at no cost to the owner.

4 Seed + Sod Lawn
SCALE: 1" = 1' - 0"

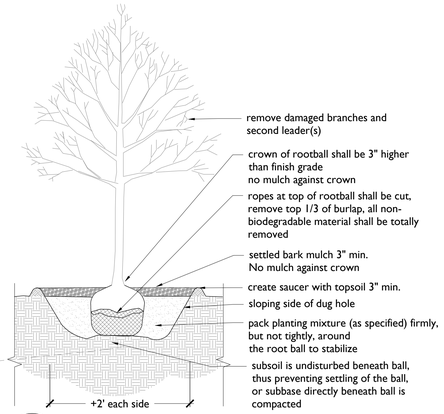


NOTE: Prior to planting, remove plant from container and comb out roots.

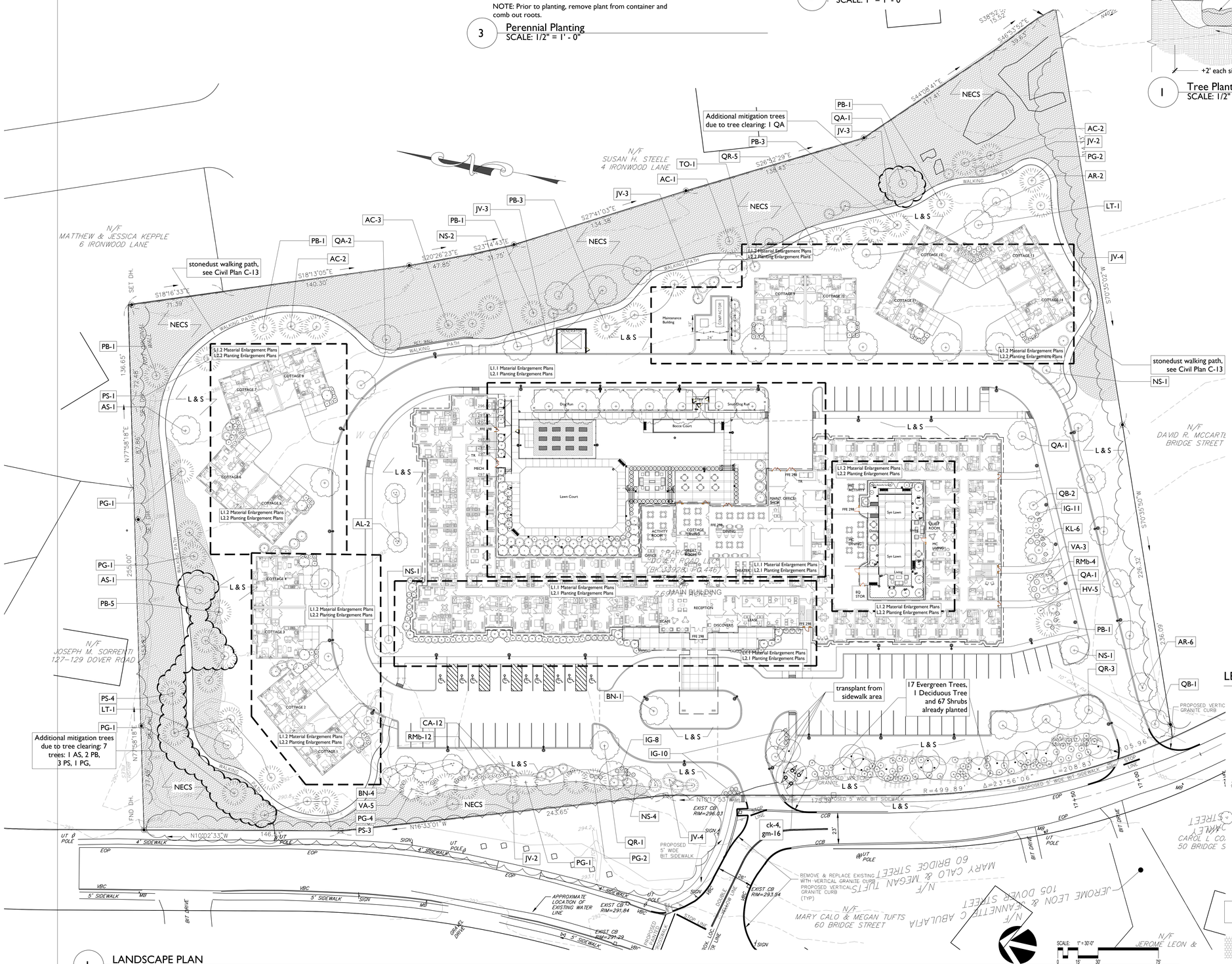
3 Perennial Planting
SCALE: 1/2" = 1' - 0"



2 Shrub Planting
SCALE: 1" = 1' - 0"



1 Tree Planting
SCALE: 1/2" = 1' - 0"



1 LANDSCAPE PLAN
SCALE: 1"=30'-0"

PLANTING NOTES

1. All plant material shall be approved by the Landscape Architect prior to arrival on the site.
2. All plant material shall conform to the guidelines established by "The American Standard for Nursery Stock", published by the American Hort.
3. No substitution of plant species will be allowed without the written approval of the Landscape Architect. Any proposed substitutions of plant species shall be a plant of equivalent overall form, height and branching habit, flower, leaf and fruit, color and time of bloom.
4. The Contractor shall locate and verify all utility line locations prior to excavation for tree pits and report any conflicts to the Landscape Architect.
5. All plants shall be placed in their approximate location by the Contractor. The Contractor shall adjust the locations as required by the Landscape Architect. Trees shall be placed first, then shrubs, then perennials and last, groundcovers. Final locations must be approved by the Landscape Architect prior to planting.
6. The rootballs of trees shall be planted 3" above adjacent finished grade. The rootballs of shrubs shall be planted 2" above adjacent finished grade. The rootflare of perennials shall be set at the level at which the plant was growing.
7. All planting to be done under the full time supervision of a certified arborist, nurseryman or licensed Landscape Architect.
8. All plants are to be thoroughly watered after installation, at least twice within the first 24 hours.
9. ***The Landscape Subcontractor shall coordinate with the General Contractor and Site Subcontractor all the requirements for subsoil testing and preparation and testing and placing of approved topsoil and planting soil mixes as described in the specifications. Failure of the site or General Contractor to perform required testing, subsoil and topsoil preparation does not relieve the Landscape Contractor from the requirements of the work as set forth in the specifications.***
10.

IRRIGATION NOTES

1. Permanent irrigation systems required for all planting areas including planters. Provide irrigation sleeves below hardscape elements to reach all planted areas and winterization appurtenances. See specifications.

LEGEND:

SEE PLANT LIST	L2.1
EXISTING TREES AND SHRUBS	
DECIDUOUS TREE, typ.	1 L2.0
EVERGREEN TREE, typ.	1 L2.0
ORNAMENTAL TREE, typ.	1 L2.0
SHRUBS, typ.	2 L2.0
PERENNIALS + ORNAMENTAL GRASSES typ.	3 L2.0
VINES, typ.	2 L2.0
L & S — LAWN, typ. See specifications	4 L2.0
NECS: NEW ENGLAND CONSERVATION SEED MIX SEE SPECIFICATIONS	

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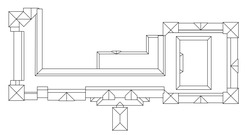

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Millis AL

125 DOVER ROAD
MILLIS, MA 02054

Sheet Name:
L SERIES
PLANTING PLAN

Project Number:

Issue Date:
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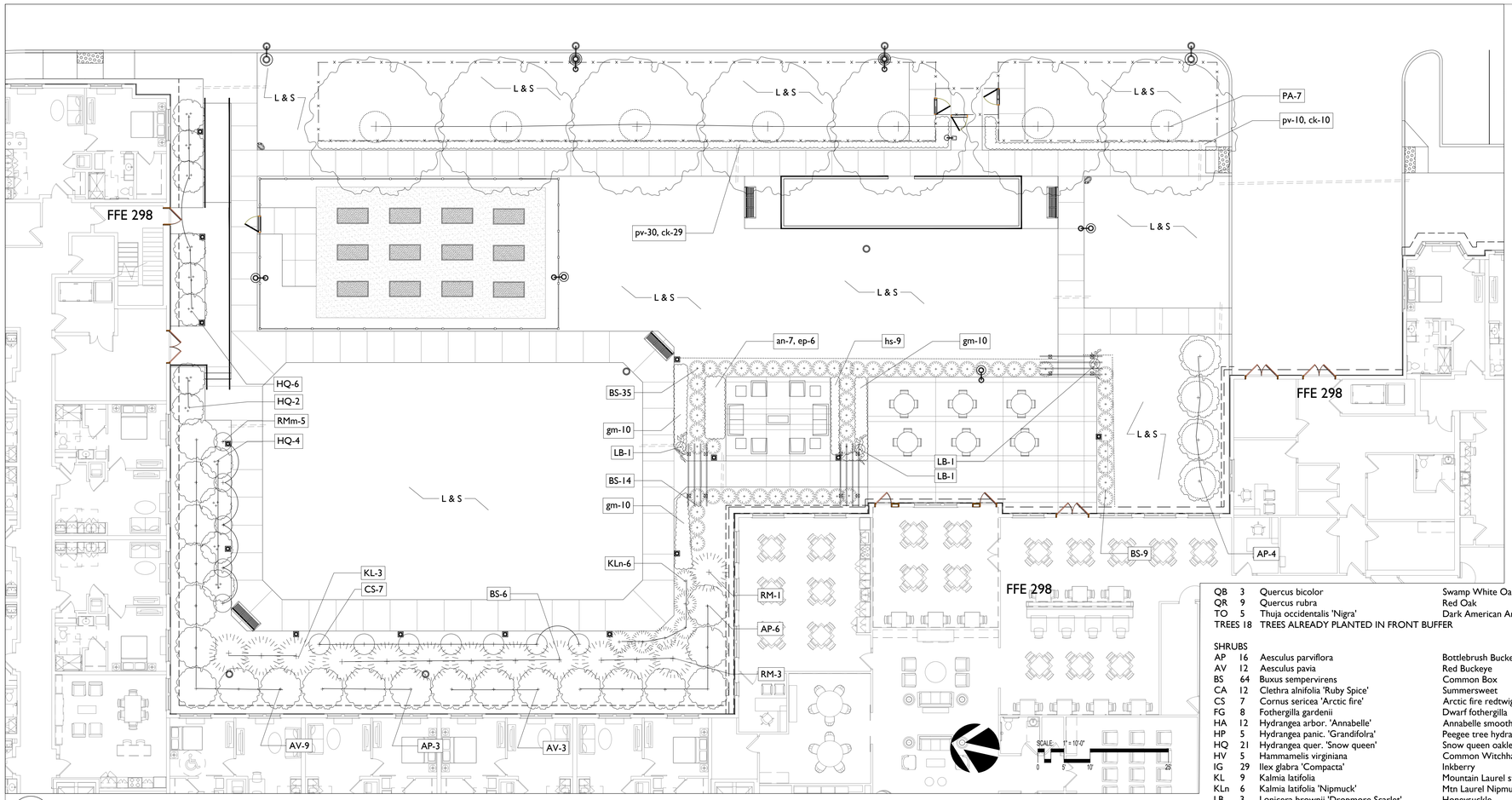
Sheet Number:
L3.0



1 Enlargement
SCALE: 1"=10'-0"

LEGEND:

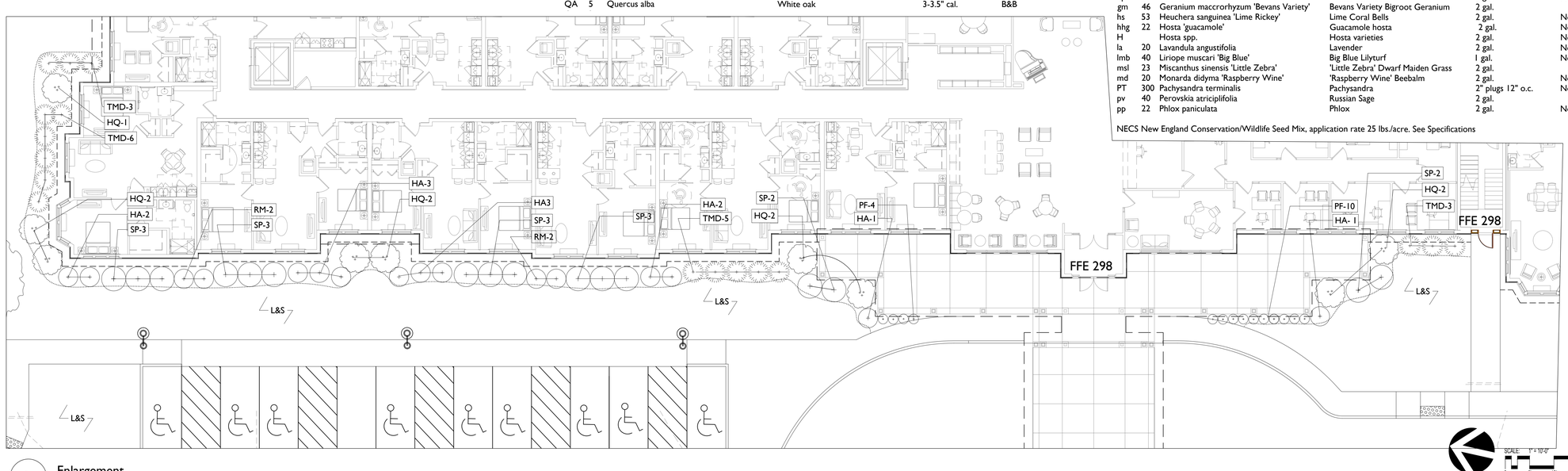
SEE PLANT LIST L2.1

- EXISTING TREES AND SHRUBS
- DECIDUOUS TREE, typ. 1/L2.0
- EVERGREEN TREE, typ. 1/L2.0
- ORNAMENTAL TREE, typ. 1/L2.0
- SHRUBS, typ. 2/L2.0
- PERENNIALS + ORNAMENTAL GRASSES typ. 3/L2.0
- VINES, typ. 2/L2.0
- L & S — LAWN, typ. See specifications 4/L2.0
- NECS: NEW ENGLAND CONSERVATION SEED MIX SEE SPECIFICATIONS

PLANT LIST

SYM	#	LATIN NAME	COMMON NAME	SIZE	NOTES
TREES					
AC	8	Abies concolor	White Fir	10-12' ht.	B&B
AR	7	Acer rubrum 'Red Sunset'	Red sunset red maple	3-3.5" cal.	B&B
AS	2	Acer saccharum 'Green Mountain'	Green mountain sugar maple	3-3.5" cal.	B&B
AL	2	Amelanchier laevis	Serviceberry	8-10' ht.	B&B
BN	13	Betula nigra 'Heritage'	Heritage river birch	10'-12' ht.	multi, B&B
JV	21	Juniperus virginiana 'Emerald Sentinel'	Emerald sentinel red cedar	8-10' ht.	B&B
LT	2	Liriodendron tulipifera	Tuliptree	3.5-4" cal.	B&B
NS	9	Nyssa sylvatica	Black tupelo	2.5-3" cal.	B&B
OA	8	Oxydendrum arboreum	Sourwood	1.5-2" cal.	B&B Non-toxic
PB	16	Picea abies	Norway Spruce	12-14' ht.	B&B
PG	13	Picea glauca	White spruce	10-12' ht.	B&B
PS	8	Pinus strobus	White pine	8-10' ht.	B&B
PA	7	Platanus acerifolia 'Exclamation'	'Exclamation' London Planetree	3-3.5" cal B&B	B&B
QA	5	Quercus alba	White oak	3-3.5" cal.	B&B
QB	3	Quercus bicolor	Swamp White Oak	3-3.5" cal.	B&B
QR	9	Quercus rubra	Red Oak	2.5-3" cal.	B&B
TO	5	Thuja occidentalis 'Nigra'	Dark American Arborvitae	7-8' ht.	B&B
TREES	18	TREES ALREADY PLANTED IN FRONT BUFFER			
SHRUBS					
AP	16	Aesculus parviflora	Bottlebrush Buckeye	3-4' ht.	
AV	12	Aesculus pavia	Red Buckeye	3-4' ht.	
BS	64	Buxus sempervirens	Common Box	5 gal.	
CA	12	Clethra alnifolia 'Ruby Spice'	Summersweet	24-30" ht.	
CS	7	Cornus sericea 'Arctic fire'	Arctic fire redtwig dogwood	24"-30" ht.	
FG	8	Fothergilla gardenii	Dwarf fothergilla	18"-24" ht.	
HA	12	Hydrangea arbor. 'Annabelle'	Annabelle smooth hydrangea	5 gal.	
HP	5	Hydrangea panic. 'Grandifolra'	Peegee tree hydrangea	7 gal.	
HQ	21	Hydrangea quer. 'Snow queen'	Snow queen oakleaf hydrangea	24"-30" ht.	
HV	5	Hammamelis virginiana	Common Witchhazel	5-6' ht.	
IG	29	Ilex glabra 'Compacta'	Inkberry	24-30" ht.	
KL	9	Kalmia latifolia	Mountain Laurel straight species	4-5' ht.	
KLn	6	Kalmia latifolia 'Nipmuck'	Mtn Laurel Nipmuck	5 gal.	
LB	3	Lonicera brownii 'Dropmore Scarlet'	Honeysuckle	3 gal.	
PSe	1	Pinus strobus 'Elf'	Elf White Pine	10 gal.	Non-Toxic
PF	14	Potentilla fruticosa White	White Shrubby Cinquefoli	18"-24" ht.	
RM	16	Rhododendron maximum 'Roseum'	Rosebay Rhodo	30"-36" ht.	
RMb	16	Rhodo maximum	Rosebay Rhodo	5-6' ht.	
RMm	33	Rosa meidiland 'Meicoublan'	Icy drift groundcover rose	5 gal.	
SJ	33	Spiraea japonica 'Little Princess'	Little princess jap. spirea	18"-24" ht.	Non-Toxic
SP	29	Syringa patula 'Miss Kim'	Miss kim dwarf lilac	5 gal.	
TMD	17	Taxus media 'Densiformis'	Spreading dense yew	2'-2.5' sp.	
VA	8	Viburnum acerifolium	Mapleleaf Viburnunm	18-24" ht.	
VPT	4	Viburnum pl t. tom. 'Maresiii'	Marie's doublefile viburnum	36" ht.	Non-Toxic
VPP	6	Viburnum plicatum var. tomentosum 'Popcorn'	Doublefile Vib.	36" ht.	
SHRUBS	67	SHRUBS ALREADY PLANTED IN FRONT BUFFER			
PERENNIALS I GRASSES					
an	7	Anemone hybrida 'Honorine Jobert'	Jap. Windflower	2 gal.	
apf	44	Adiantum pedatum	Maidenhair Fern	2 gal.	Non-Toxic
ck	43	Calamagrostis acutifolia 'Karl Foerster'	Karl Foerster Feather Reed Grass	2 gal.	
ep	26	Echinacea PowWow	White Echinacea	2 gal.	Non-Toxic
gm	46	Geranium maccrorhyzum 'Bevans Variety'	Bevans Variety Bigroot Geranium	2 gal.	
hs	53	Heuchera sanguinea 'Lime Rickey'	Lime Coral Bells	2 gal.	Non-Toxic
hhg	22	Hosta 'guacamole'	Guacamole hosta	2 gal.	Non-Toxic
H		Hosta spp.	Hosta varieties	2 gal.	Non-Toxic
la	20	Lavandula angustifolia	Lavender	2 gal.	Non-Toxic
lmb	40	Liriope muscari 'Big Blue'	Big Blue Lilyturf	1 gal.	Non-Toxic
msl	23	Miscanthus sinensis 'Little Zebra'	'Little Zebra' Dwarf Maiden Grass	2 gal.	
md	20	Monarda didyma 'Raspberry Wine'	'Raspberry Wine' Beebalm	2 gal.	Non-Toxic
PT	300	Pachysandra terminalis	Pachysandra	2" plugs 12" o.c.	Non-Toxic
pv	40	Perovskia atriciplifolia	Russian Sage	2 gal.	
pp	22	Phlox paniculata	Phlox	2 gal.	Non-Toxic Part - full

NECS New England Conservation/Wildlife Seed Mix, application rate 25 lbs./acre. See Specifications



2 Enlargement
SCALE: 1"=10'-0"

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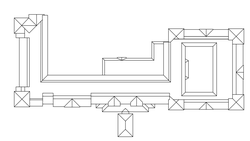

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Millis AL

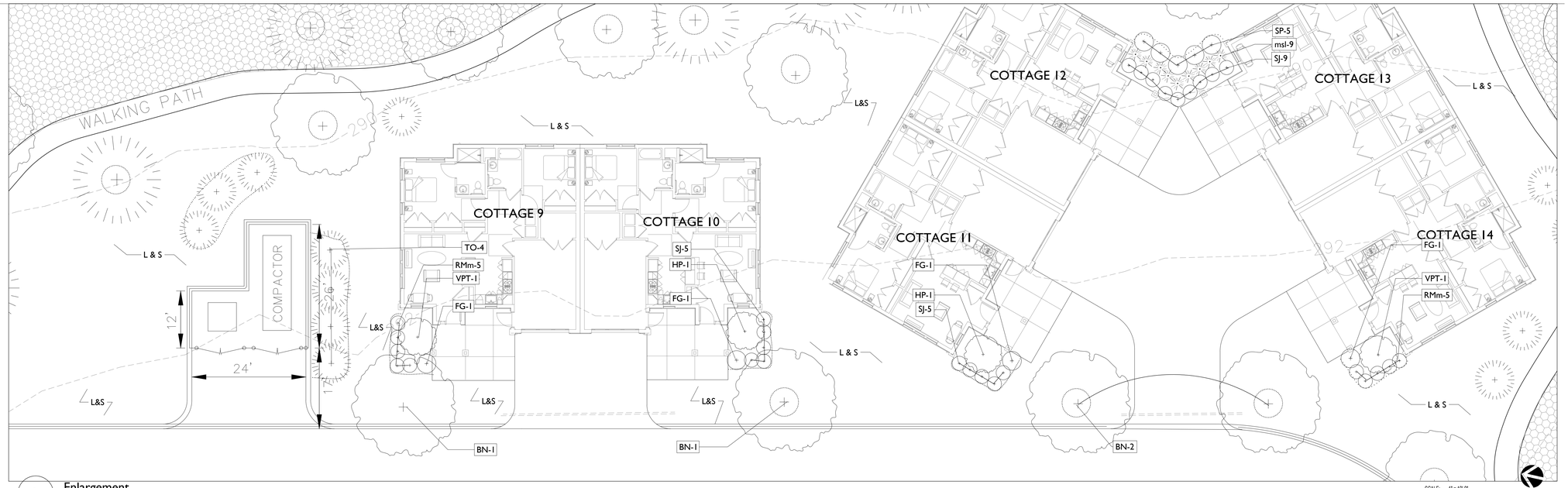
125 DOVER ROAD
MILLIS, MA 02054

Sheet Name:
L SERIES
PLANTING
ENLARGEMENT PLAN

Project Number:

Issue Date:
4/12/21 PERMIT

Sheet Number:
L3.1



1 Enlargement
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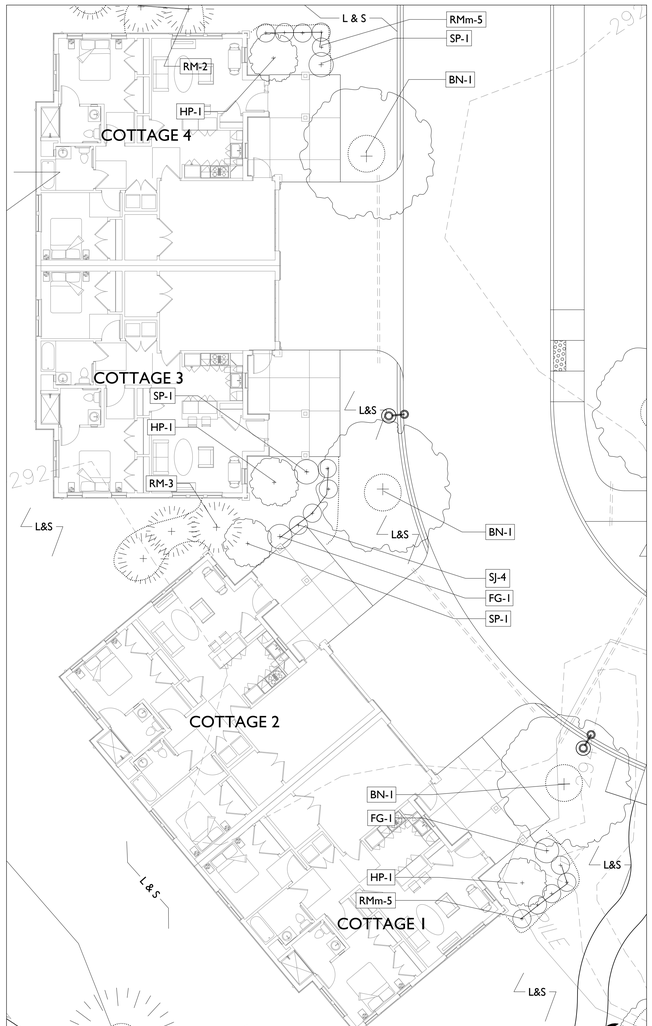

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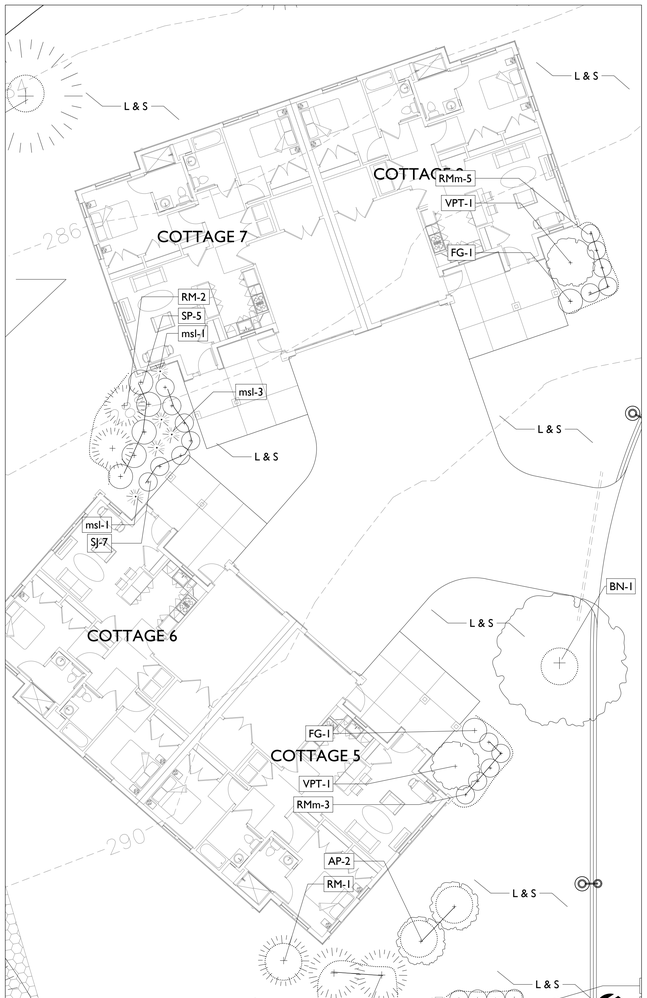

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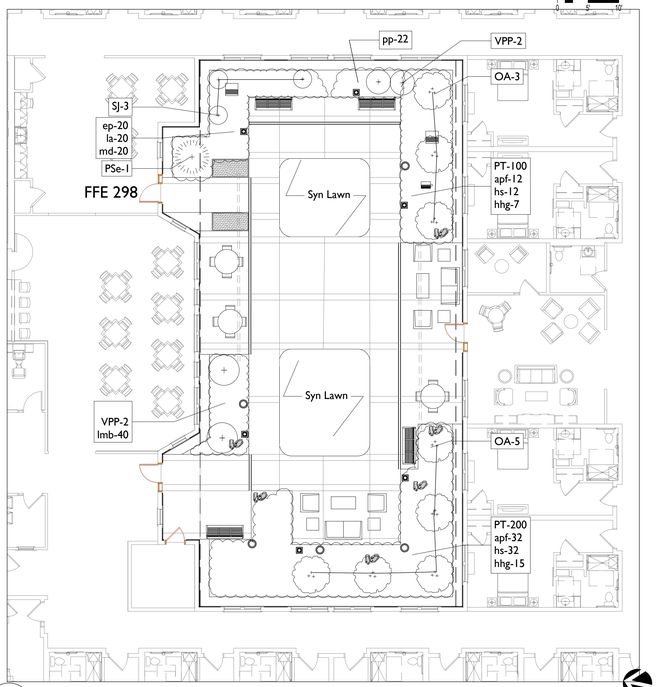

2 Memory Court Enlargement
SCALE: 1"=10'-0"

LEGEND:

SEE PLANT LIST (L2.1)

- EXISTING TREES AND SHRUBS
- DECIDUOUS TREE, typ. (1 / L2.0)
- EVERGREEN TREE, typ. (1 / L2.0)
- ORNAMENTAL TREE, typ. (1 / L2.0)
- SHRUBS, typ. (2 / L2.0)
- PERENNIALS + ORNAMENTAL GRASSES typ. (3 / L2.0)
- VINES, typ. (2 / L2.0)
- L & S — LAWN, typ. See specifications (4 / L2.0)

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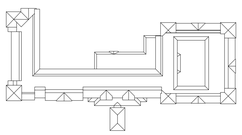

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125 DOVER ROAD
MILLIS, MA 02054

Sheet Name:
L SERIES
PLANTING
ENLARGEMENT PLAN

Project Number:

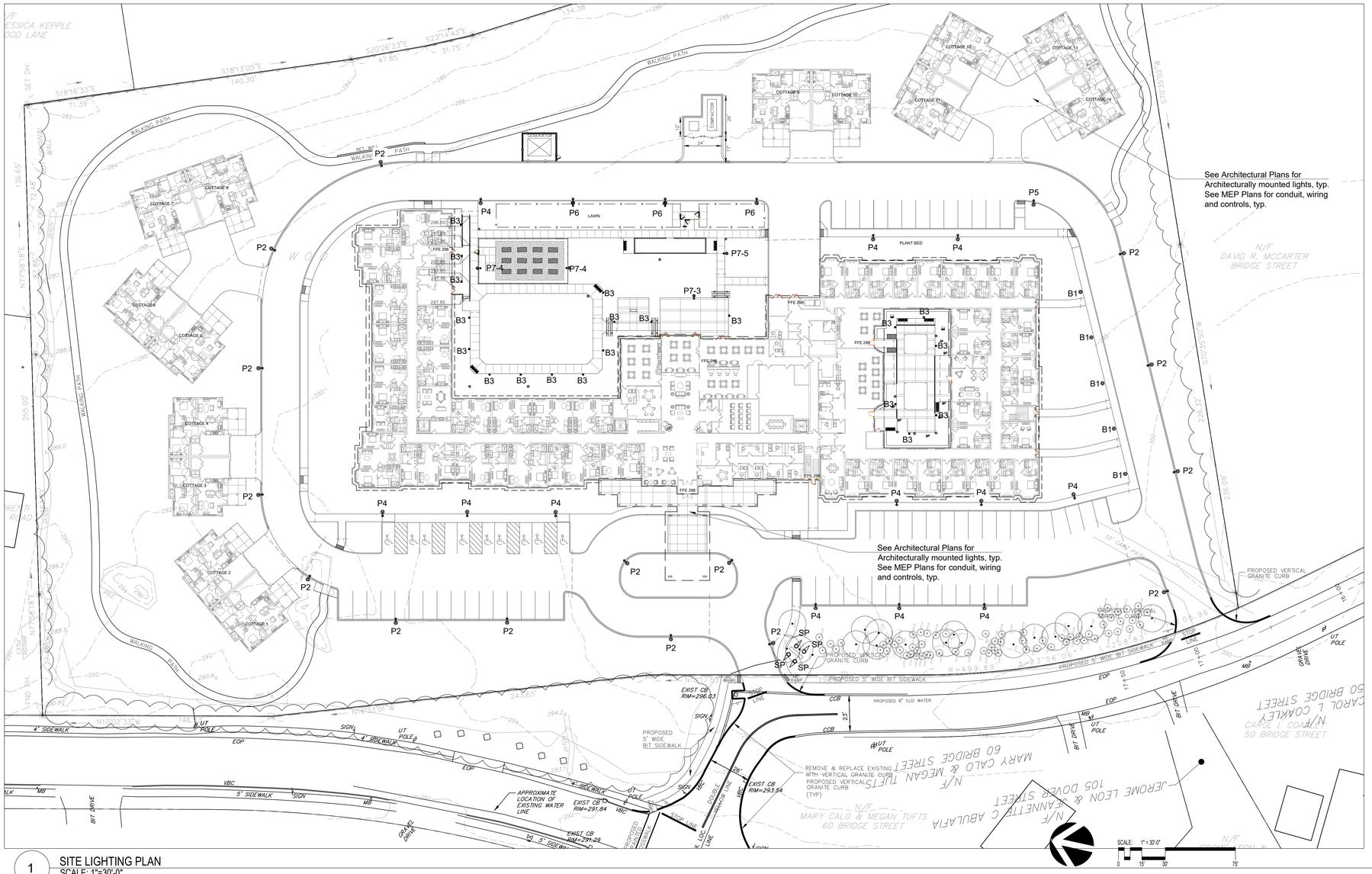
Issue Date:
4/12/21 PERMIT

Sheet Number:
L3.2

NOTES
1) Locations of lights are approximate.
2) Full coordination with MEP and Civil Engineering required.
3) Final approval of lighting plan including photometric output required by Town of Dover.
4) See Architectural plans for additional information regarding lighting at balconies, doorways and other exterior, building-mounted lights.
5) See MEP Plans for conduit, wiring and additional information.

Dover Road Lighting Schedule

	Qty.	Key	Type	Product #	Company	Material	Notes
	15	P2	Post Light	AAL UCM-ANG--T2-32LED-3K-700-BL-SLA20-BL/PR4-4R14-12-125	Architectural Area Lighting	Hard Anodized | No Color	Parking Lot and Driveway Lighting
	12	P4	Post Light	AAL UCM-ANG-T4-32LED-3K-700-BL-HSS-SLA20-BL/PR4-4R14-12-125	Architectural Area Lighting	See Notes	Parking Lot and Driveway Lighting
	1	P5	Post Light	AAL UCM-ANG-T5-32LED-3K-700-BL-HSS-SLA20-BL/PR4-4R14-12-125	Architectural Area Lighting	Finish Black	Parking Lot and Driveway Lighting
	3	P6	Post Light	AAL (2) UCM-ANG-T4-32LED-3K-700-BL-HSS-SLA20-2-BL/PR4-4R14-12-226	Architectural Area Lighting	Finish Jet Black RAL9005	Driveway & Dog Park Lighting
	1	P7-5	Post Light	RA17A2 36-350 3K7 5W UNV BL- SLA20 PR4-4R14-12-125	Kim Lighting/ Era Collection	Finish Jet Black RAL9005	Courtyard Lighting
	2	P7-4W BC	Post Light	RA17A2 36-350 3K7 4W-BC UNV BL-SLA20 PR4-4R14-12-125	Kim Lighting/ Era Collection		Courtyard Lighting
	1	P7-3BC	Post Light	RA17A2 36-350 3K7 3-BC UNV BL-SLA20 PR4-4R14-12-125	Kim Lighting/ Era Collection		Courtyard Lighting
	20	B3	Path Light	Miko Bollard S-MK0303US-12S-0 872003D-630-12US	Arcluce	Finish Jet Black RAL9005	Courtyard Lighting
	5	B1	Bollard Light	Spaulding FN2-12LU-3K-DB	Spaulding Lighting	Finish Jet Black RAL9005	Sidewalk Lighting
	4	SP	Spot Light	LBUL-20-120-3K	Hubbel Outdoor	Finish Black	Illuminate Site ID Sign



1 SITE LIGHTING PLAN
SCALE: 1"=30'-0"

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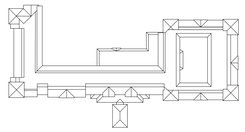

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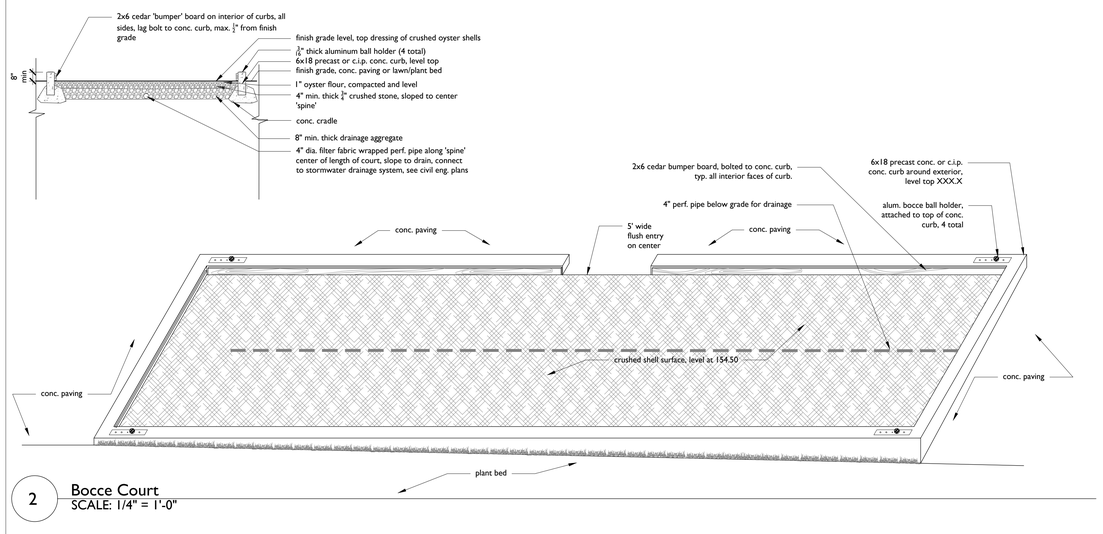

2 Bocce Court
SCALE: 1/4" = 1'-0"

1 Memory Garden Enlargement I Paving Plan - Not Needed
SCALE: 1/4" = 1' - 0"

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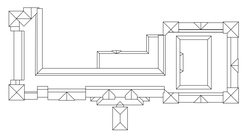
Scale: As Noted

Key Plan:



Project Name:

Millis AL

125 DOVER ROAD
MILLIS, MA 02054

Sheet Name:

L SERIES
LANDSCAPE
DETAILS
ENLARGEMENTS

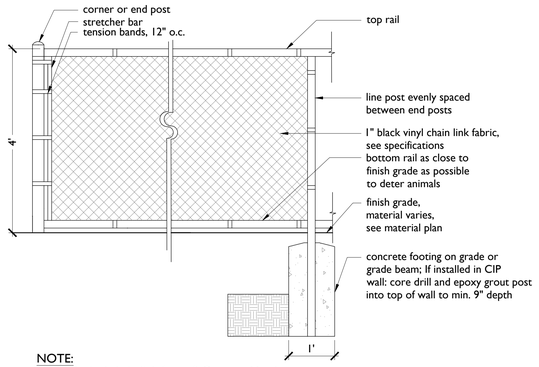
Project Number:

Issue Date:

4/12/21 PERMIT

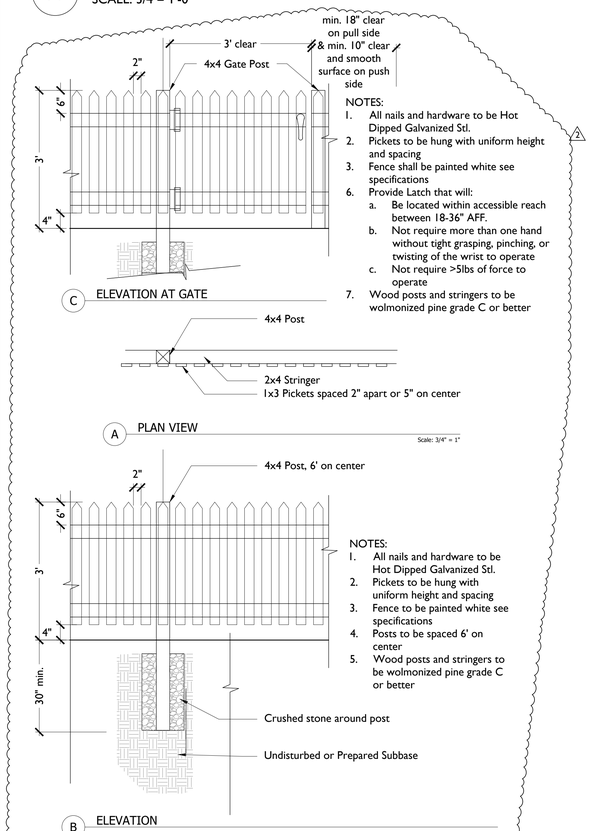
Sheet Number:

LD0



NOTE:
1. Black vinyl chain link fence 3 Gates to Match
2. refer to specifications for material requirements.
3. Knuckle selvage top and bottom edges.

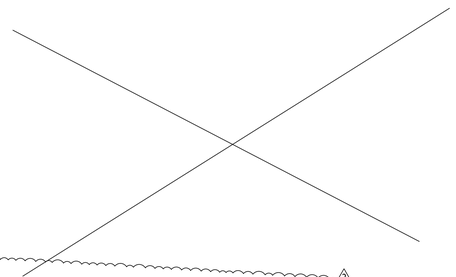
14 Black Vinyl Chain Link | Dog Yard
SCALE: 3/4 = 1'-0"



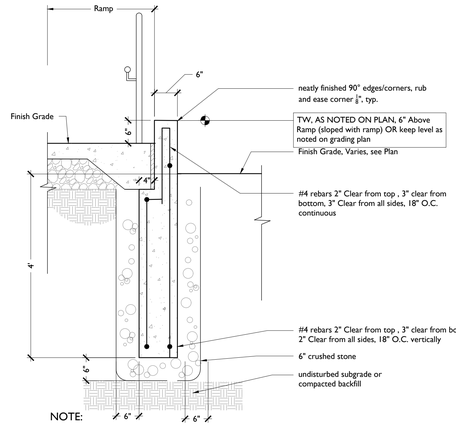
NOTES:
1. All nails and hardware to be Hot Dipped Galvanized Stl.
2. Pickets to be hung with uniform height and spacing
3. Fence shall be painted white see specifications
6. Provide Latch that will:
   a. Be located within accessible reach between 18-36" AFF.
   b. Not require more than one hand without tight grasping, pinching, or twisting of the wrist to operate
   c. Not require >5lbs of force to operate
7. Wood posts and stringers to be wolmonized pine grade C or better

NOTES:
1. All nails and hardware to be Hot Dipped Galvanized Stl.
2. Pickets to be hung with uniform height and spacing
3. Fence to be painted white see specifications
4. Posts to be spaced 6' on center
5. Wood posts and stringers to be wolmonized pine grade C or better

15 Community Garden Fence
SCALE: 3/4" = 1' - 0"

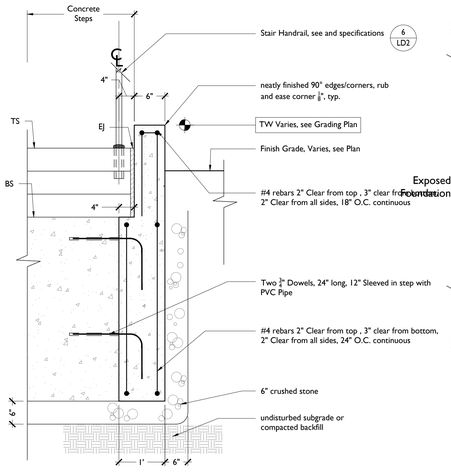


16 Stockade Fence - Not Needed
SCALE: 3/4" = 1' - 0"



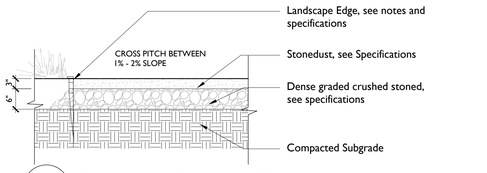
NOTE:
1. refer to specifications.

12 Cheek Wall at Ramp
SCALE: 3/4" = 1'-0"

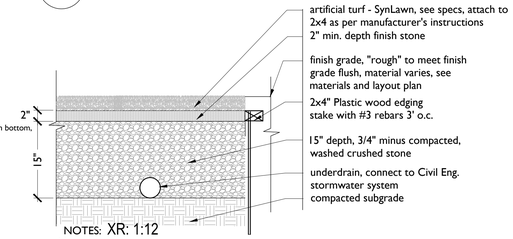


NOTE:
1. If top of Cheekwall is 3'-6" or greater above grade, a spread footing shall be installed.
2. refer to specifications.

13 Cheek Wall at Stairs
SCALE: 3/4" = 1'-0"



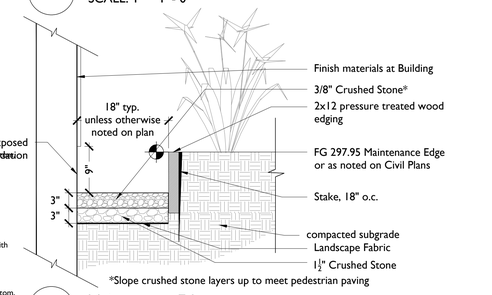
6 Stonedust at Community Garden
SCALE: 1" = 1'-0"



NOTES: XR: 1:12

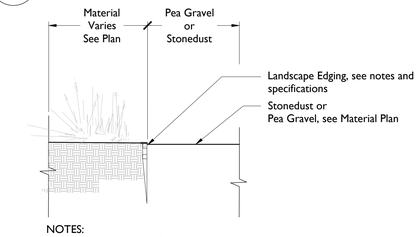
Notes:
1. Grading to be performed in the field by installation crew, subject to Landscape Architect approval.
2. Synthetic lawn to be supplied and installed by SynLawn, 5 Fulton Street #100, Canton, MA 02021, 781-821-0112, www.synlawn.com
3. Where adjacent to concrete paving, thicken concrete to create haunch, and anchor wood edging to concrete.

7 Synthetic Turf
SCALE: 1" = 1' - 0"



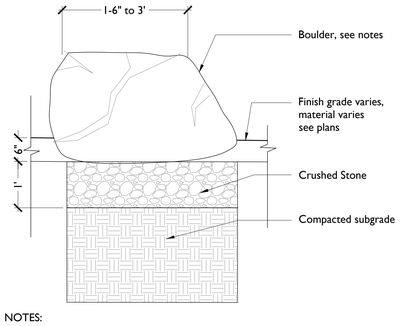
*Slope crushed stone layers up to meet pedestrian paving

8 Maintenance Edge
SCALE: 1" = 1'-0"



NOTES:
1. Cleanline Commercial Grade Landscape Edging
2. $\frac{3}{16}$" x 5.5" ht. Color Anodized Black

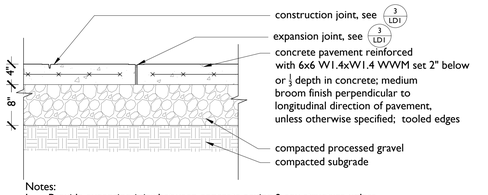
9 Edge at Stonedust/Pea Gravel
SCALE: 1"=1'-0"



NOTES:
1. boulders shall weigh 1- 1.5 tons or larger each min. (2x4x2' in size min.)
2. set bottom boulder 6" below grade
3. Position of Boulders to be field verified by Landscape Architect

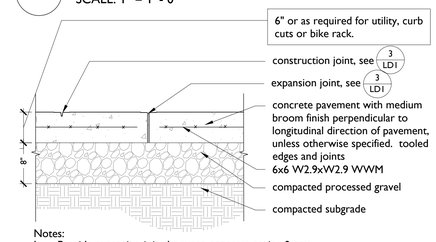
10 Boulder at Memory Court
SCALE: NTS

11 DETAIL NOT USED
SCALE: NTS



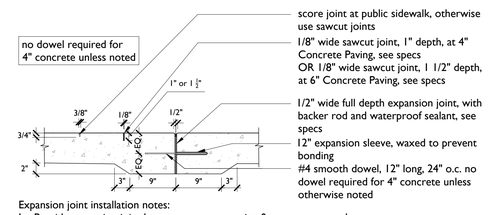
Notes:
1. Provide expansion joint between concrete paving & any structure unless specifically directed by owner or Landscape Architect
2. Provide 6" depth concrete at bike racks and benches; locations noted on plan
3. All construction joints shall be 5' o.c. typical.
4. Expansion joints every 30' o.c. both ways and as noted
5. See specifications

1 4" Concrete Paving
SCALE: 1" = 1' - 0"



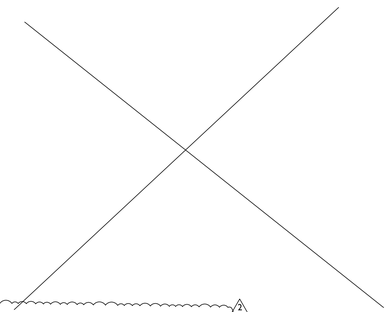
Notes:
1. Provide expansion joint between concrete paving & any structure unless specifically directed by owner or Landscape Architect
2. Vehicular, Trash/Recycling Pads
3. Score joints vary see Layout Plan.
4. Expansion joints every 30' o.c. both ways and as noted

2 6" Concrete Paving
SCALE: 1" = 1' - 0"



Expansion joint installation notes:
1. Provide expansion joint between concrete paving & any structure unless specifically directed by owner or Landscape Architect
2. Dowel is required at expansion joints at the top of Steps
3. Dowel is required at all expansion joints (24" o.c.) at 6" vehicular concrete paving
4. Delete expansion sleeve and dowel where joint abuts wall, curbs, or other vertical surfaces, unless otherwise indicated on plan.
5. Expansion joints max. 20'-0" o.c. unless shown otherwise.

3 Concrete Paving Joints
SCALE: 1" = 1' - 0"



4 Unit Paving - Not Needed
SCALE: 1" = 1' - 0"

5 DETAIL NOT USED
SCALE: NTS

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Checked: KP

Scale: As Noted

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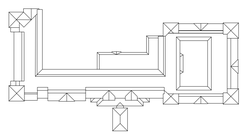

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Millis AL

125 DOVER ROAD
MILLIS, MA 02054

Sheet Name:

L SERIES
LANDSCAPE
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Issue Date:

4/12/21 PERMIT

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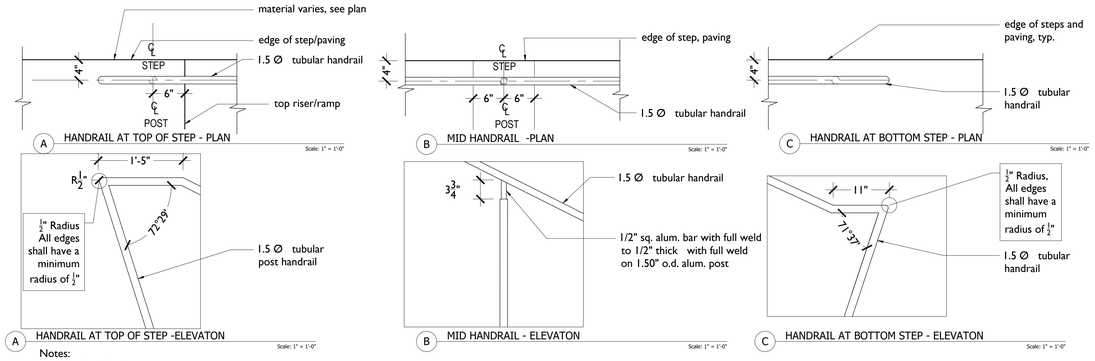
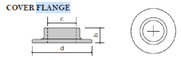
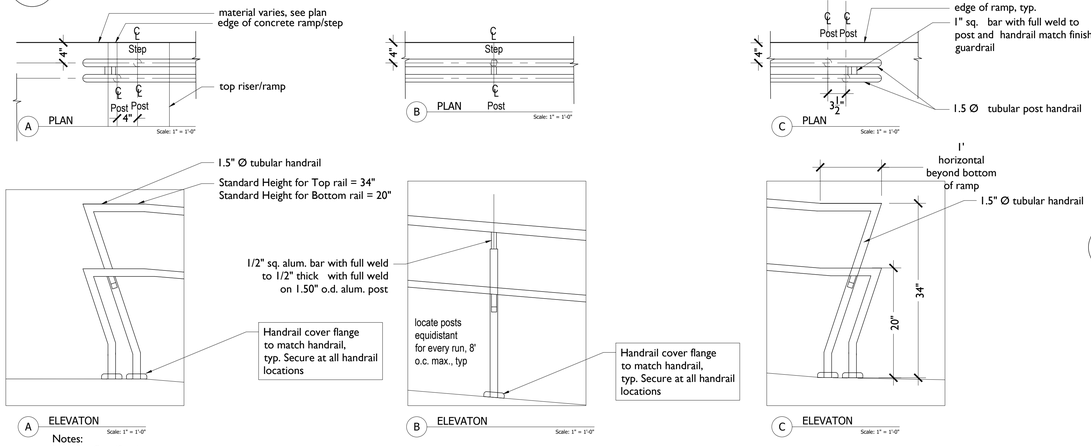
LD1



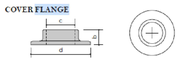
Notes:
1. See Specifications
2. Finish Dark Gray
3. Provide shop drawings
4. Fully fish mouth weld all joints and seams
4. Drill weep holes in posts just above the Finish Grade
5. Cover Flange shall be b=1" / c=1.938" / d=4"



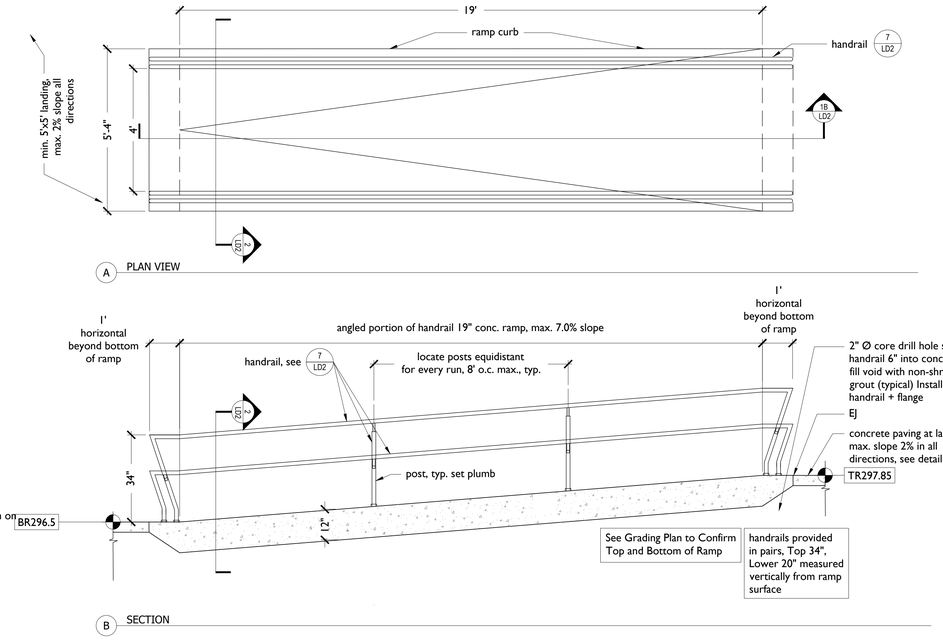
6 Stair Handrail
SCALE: 1" = 1'-0"



Notes:
1. See Specifications
2. Finish Dark Gray
3. Provide shop drawings
4. Fully fish mouth weld all joints and seams
4. Drill weep holes in posts just above the Finish Grade
5. Cover Flange shall be b=1" / c=1.938" / d=4"

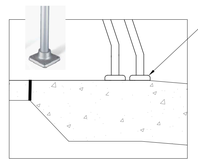


7 Ramp Handrail Pair
SCALE: 1" = 1'-0"

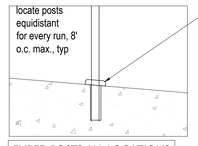


NOTES:
1. Contractor shall submit large-scale shop drawings of handrails and all necessary hardware per specification. see specifications for welding and finishing requirements.
2. All posts to be set plumb and vertical. all rails shall follow grade at base.
3. Two handrails shall be provided (one on each side of the ramp), each with a top and bottom handrail.
4. Refer to specifications.

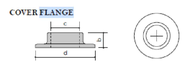
1 Ramp
SCALE: 1/2" = 1'-0"



Surface Mounting:
1. Sleeve anchor bolt 3/8" x 3"
2. for use with heavy-duty floor flange
3. Drill 3/8" hole in concrete to 3" depth.
4. Drill holes which conform to ANSI standard carbide bit dimension (.390" to .398").
5. Clean out dust in hole after drilling.
6. Insert sleeve bolt in hole, hand tighten, then
7. tighten with wrench to a maximum torque of 30 ft. lbs.
8. Use heavy-duty floor flange as a template for locating holes
9. Minimum distance from centerline of hole to edge of concrete is 2"

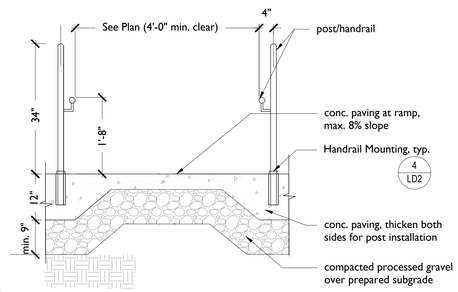


Embedding in concrete:
1. Posts embedded in concrete should be set to a depth of 5" below the surface of floor or tread
2. Allow for a 1" grout pad beneath post.
3. Provide a hole 2 1/2" to 3" in diameter to leave room for grouting cement and to allow for adjustment to field variations.
4. Use quick setting grout for setting posts.
5. weep holes should be drilled in the posts just above the ground
6. The reinforcing insert will prevent water from collecting below ground

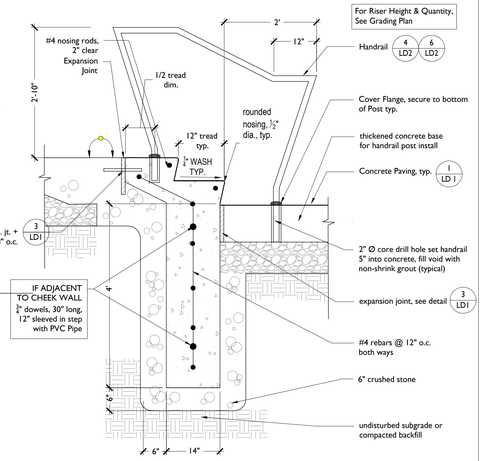


Notes:
1. See Specifications
2. Finish Dark Gray
4. Use Quick setting grout
5. Drill weep holes in posts just above the Finish Grade
6. Cover Flange shall be b=1" / c=1.938" / d=4"

4 Handrail Mounting
SCALE: 1" = 1'-0"

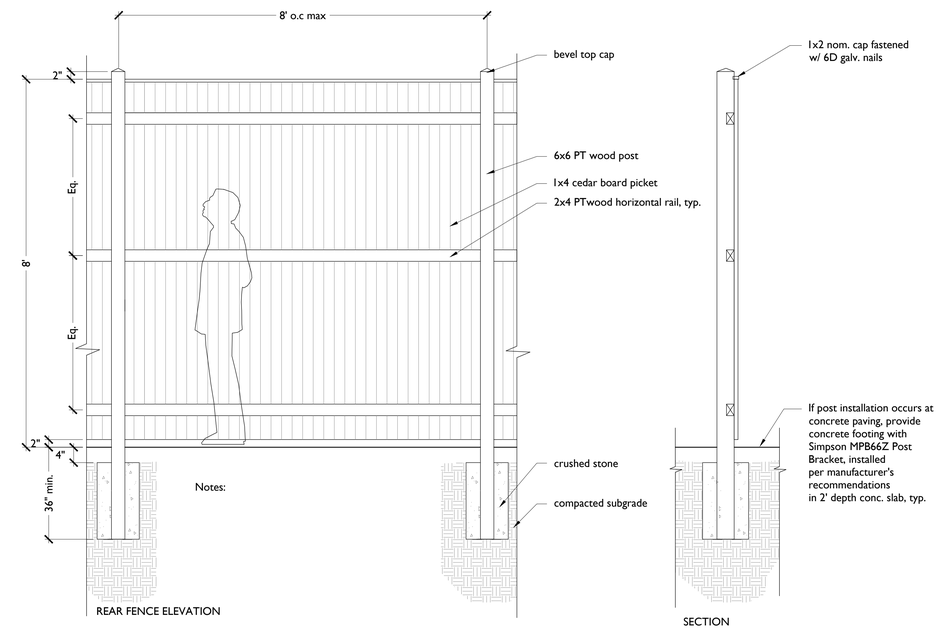


2 Ramp Section
SCALE: 3/4" = 1'-0"



NOTE:
1. contractor shall submit large-scale shop drawings of handrails and all necessary hardware per specification. see specifications for welding and finishing requirements.
2. all posts to be set plumb and vertical. all rails shall follow grade at base.
3. all handrail posts shall be set in the stair treads. the centerline of the post shall be 4 inches from the edge of stair.
4. Handrails each side of steps
5. refer to specifications.

3 Concrete Steps Handrails both sides
SCALE: 3/4" = 1' - 0"



Notes:

8 8' ht. Close Board Fence
SCALE: 3/4" = 1'-0"

5 DETAIL NOT USED
SCALE: NTS

tat

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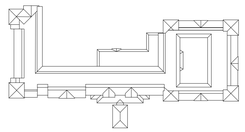

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Millis AL

125 DOVER ROAD
MILLIS, MA 02054

Sheet Name:
L SERIES LANDSCAPE DETAILS

Project Number:

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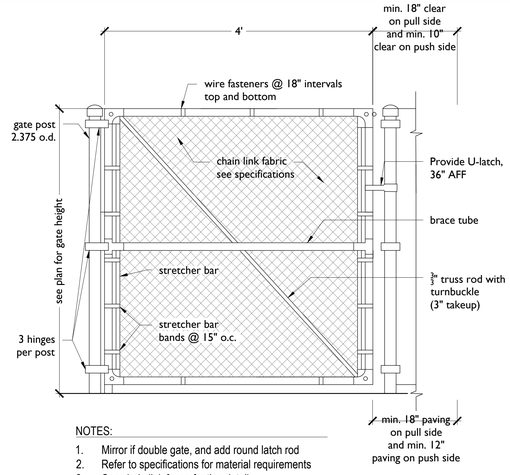
LD2



NOTES:
1. Mirror if double gate, and add round latch rod
2. Refer to specifications for material requirements
3. See chain link fence footing detail

13 Chain Link Fence Gate
SCALE: 3/4" = 1'-0"

9 Adirondack Rocker - Not Needed
SCALE: NTS

5 Adirondack Chair - Not Needed
SCALE: NTS

1 Saltbox Garden Shed - Not Included
SCALE: NTS

Notes:
1. Bird Feeders shall be 'Double Sided Absolute II Bird Feeder with Pole & Hanger' and 'Woodlink Large Copper top Gazebo Bird Feeder' available from bestnest.com
2. Install on posts as per manufacturer's recommendation.

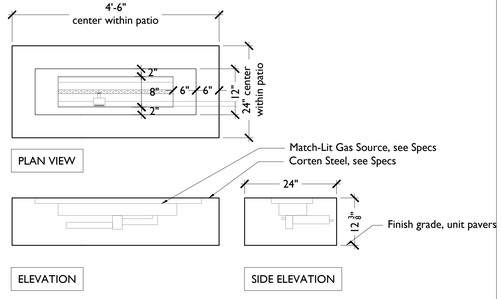
14 Bird Feeder
NTS

Notes:
1. Arbor shall be Standard Spindle Top Arbor SKU79610X by Walpole Outdoors walpoleoutdoors.com
2. Standard Spindle Top Arbor 6' Ht.
3. Crafted in AZEK with 4" sq. posts with 3 1/2" sq. arch. 5' H horizontal/vertical lattice side panels. 38" D. Prefinished white. Shipped kit. Motor freight.

10 Arbor
SCALE: NTS

Notes:
VegTrug Raised Garden Planter by Eartheasy.com
Size: Medium 31"Height

6 VegTrug | Memory Court
SCALE: NTS



Notes:
1. 54" Precast Concrete Robata Linear Fire Pit by Paloform
2. See Manufacturer Installation Instructions
3. Coordinate all gas and electrical feeds with MEP. See Electrical and architectural drawings for switch location interior to building.
4. Align exact location of gas and electrical feed with utility openings
5. General Contractor to coordinate permitting with Fire Department prior to ordering
5. Provide remote control
6. Provide Emergency Shut Off as required by Local Fire Department that will:
   a. Be located within an accessible reach range (18"-48" AFF).
   b. Not require more than one hand without tight grasping, pinching, or twisting of the wrist to operate
   c. Not require >5lbs of force to operate

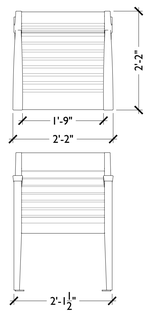
2 Fire Pit
SCALE: NTS

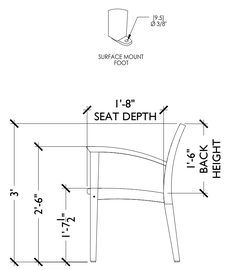
Notes:
1. Bird House shall be 'Woodlink Coppertop Hanging Chickadee & Wren House', available from bestnest.com
2. Hang from iron hook, attached to building facade, in location approved by architect

15 Bird House
NTS

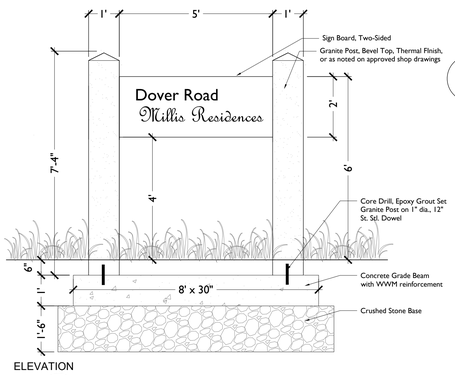
FORTHCOMING

11 Arbor Footing
SCALE: NTS





3 Wellspring Chair
SCALE: 3/4" = 1' - 0"

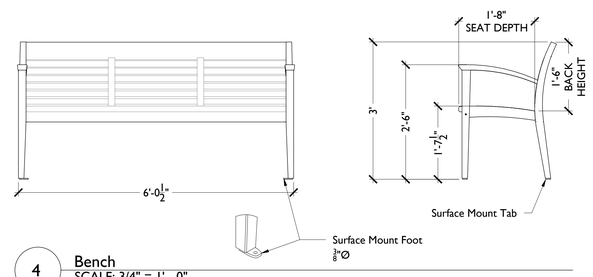


12 Site Signage
SCALE: 1/2" = 1'-0"

Notes:
3'x6' Raised Garden Bed With Hinged Fencing by Eartheasy.com

7 Raised Garden Bed 3'x6' with Hinged Fencing
SCALE: NTS

8 Fountain | Memory Court - Not Included
SCALE: NTS



4 Bench
SCALE: 3/4" = 1' - 0"

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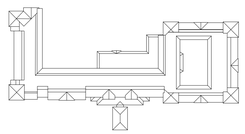

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Millis AL

125 DOVER ROAD
MILLIS, MA 02054

Sheet Name:
L SERIES LANDSCAPE DETAILS

Project Number:

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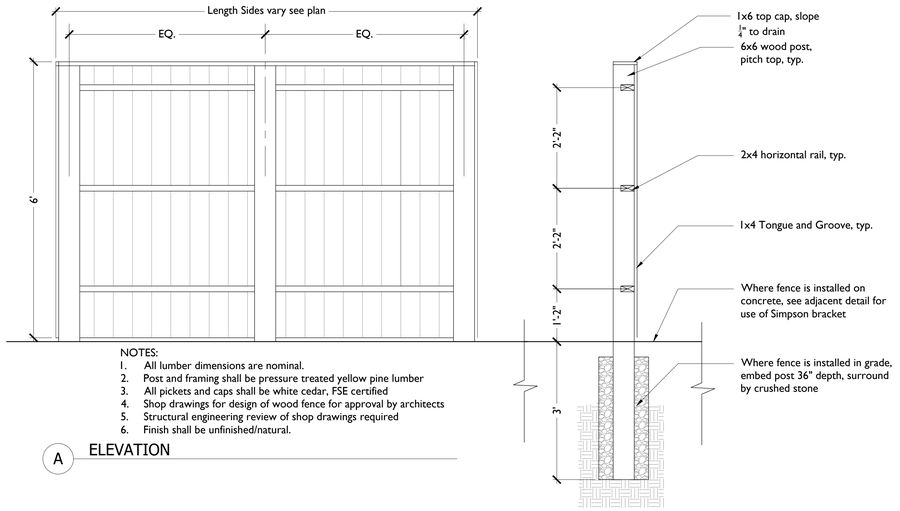
4/12/21 PERMIT

Sheet Number:
LD3

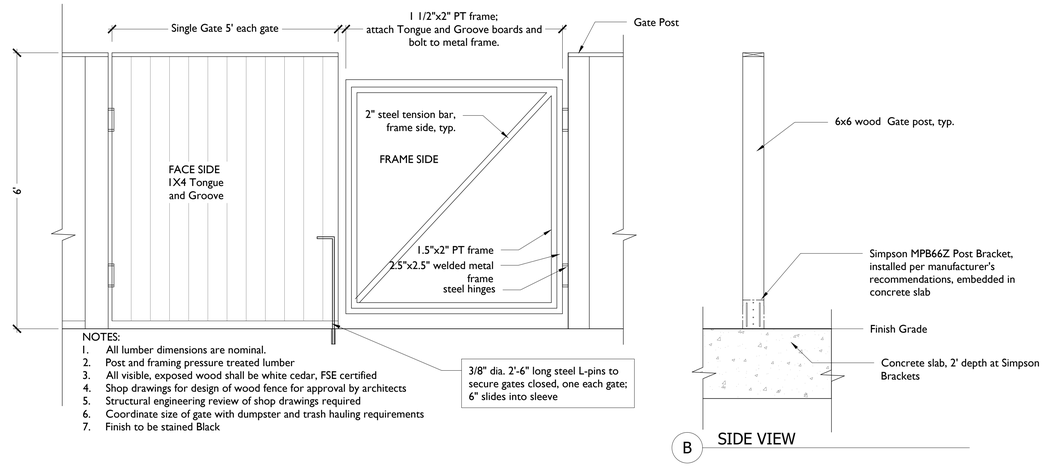


NOTES:
1. All lumber dimensions are nominal.
2. Post and framing shall be pressure treated yellow pine lumber
3. All pickets and caps shall be white cedar, FSE certified
4. Shop drawings for design of wood fence for approval by architects
5. Structural engineering review of shop drawings required
6. Finish shall be unfinished/natural.

A ELEVATION

B SIDE VIEW

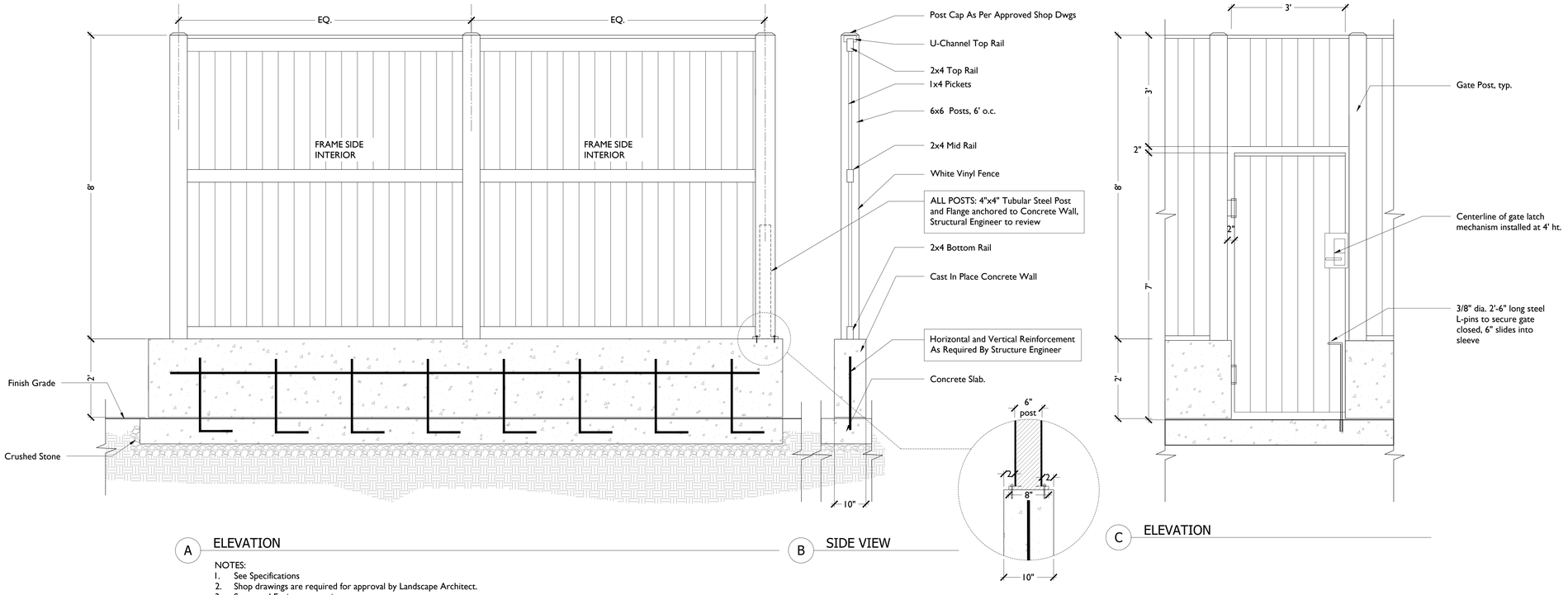
2 6' Ht. Close Board Fence Trash Enclosure
SCALE: 3/4" = 1'-0"



NOTES:
1. All lumber dimensions are nominal.
2. Post and framing pressure treated lumber
3. All visible, exposed wood shall be white cedar, FSE certified
4. Shop drawings for design of wood fence for approval by architects
5. Structural engineering review of shop drawings required
6. Coordinate size of gate with dumpster and trash hauling requirements
7. Finish to be stained Black

B SIDE VIEW

1 6' Ht. Close Board Gate Trash Enclosure
SCALE: 3/4" = 1'-0"



A ELEVATION

B SIDE VIEW

C ELEVATION

NOTES:
1. See Specifications
2. Shop drawings are required for approval by Landscape Architect.
3. Structural Engineer to review

5 Generator Enclosure
SCALE: 3/4" = 1'-0"

tat

50 Commandant's Way at Admiral's Hill
Chelsea MA 02150
O 617.889.4402
F 617.884.4329
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Consultant:

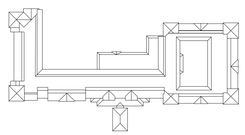
VERDANT
LANDSCAPE ARCHITECTURE
318 Harvard Street, Suite 25, Brookline, MA 02446
Verdant Landscape Architecture.com
617.735.1180

Revision:

2 5-10-2021 Value Engineering
3 6-15-2021 Issued for Permit
6-21-2021 Revisions for Permit

Architect of Record:

Drawn: WK | KC | NA
Checked: KP
Scale: As Noted
Key Plan:



Project Name:
Millis AL

125 DOVER ROAD
MILLIS, MA 02054

Sheet Name:
L SERIES
LANDSCAPE
DETAILS

Project Number:

Issue Date:
4/12/21 PERMIT

Sheet Number:
LD4

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	Manufacturer	Lum. Watts
B1	25	B1	SINGLE	N.A.	0.900	BATS-A2-T4S-LTS-36-8K	MOSAIC DESIGN	18.4
B3	22	P2	SINGLE	N.A.	0.900	ENRM-DSK-LED-E1-T5-SO-8K-700-VHO3R	INVUE	97.2
B4	12	P4	SINGLE	N.A.	0.900	ENRM-DSK-LED-E1-T5-MD-SO-8K-700-VHO3R	INVUE	48.6
B5	10	WS1	SINGLE	N.A.	0.900	WS2SERIES-WALLSPIDER-6-MDN	INVUE	14
B6	28	WS2	SINGLE	N.A.	0.910	CTQ-8R	ARL	4.5
B8	12	WS3	SINGLE	N.A.	0.900	AXCS1N-W-9W-CRP	LUMARK	13.5

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
COURTYARD	Illuminance	Fc	4.08	15.4	0.3	14.00	51.00
SITE	Illuminance	Fc	0.26	26.3	0.0	N.A.	N.A.

ILLUMINATION SYSTEMS
ARIZONA
2323 E. MAGNOLIA STREET
UNIT 108
PHOENIX, AZ 85034
PHONE: 602.715.0506
FAX: 602.884.8071
WWW.ISARIZONA.COM

MILLIS MA

DATE:6/15/2021

PHOTOMETRICS ARE NOT TO SCALE

DRAWINGS ARE FOR ESTIMATING PURPOSES ONLY.

FOOT-CANDLE VALUES ARE PREDICTED AT HORIZONTAL CALCULATIONS UNLESS SPECIFIED OTHERWISE. ACTUAL FOOT-CANDLES MAY VARY.

FINAL CONSTRUCTION DRAWINGS & CALCULATIONS ARE THE RESPONSIBILITY OF A LICENSED ARCHITECT OR ENGINEER.

REFLECTANCES:
N/A

CEILING HEIGHT:
N/A

MOUNTING HEIGHT:
VARIES SEE PLAN

CALCULATION SPACING:
10' - 0" x 10' - 0"

FOOTCANDLE CALC HEIGHT:
0' - 0" A.F.F.

ADDITIONAL NOTES:

CREATED BY:
AUSTIN JUDKINS

FOR PRICING AND AVAILABILITY, CONTACT ILLUMINATION SYSTEMS AT 602.715.0506

DSC DESIGN, SUPPORT & CONTROLS

M