

Date: Filed

Town Clerk

Approved

Town Engineer

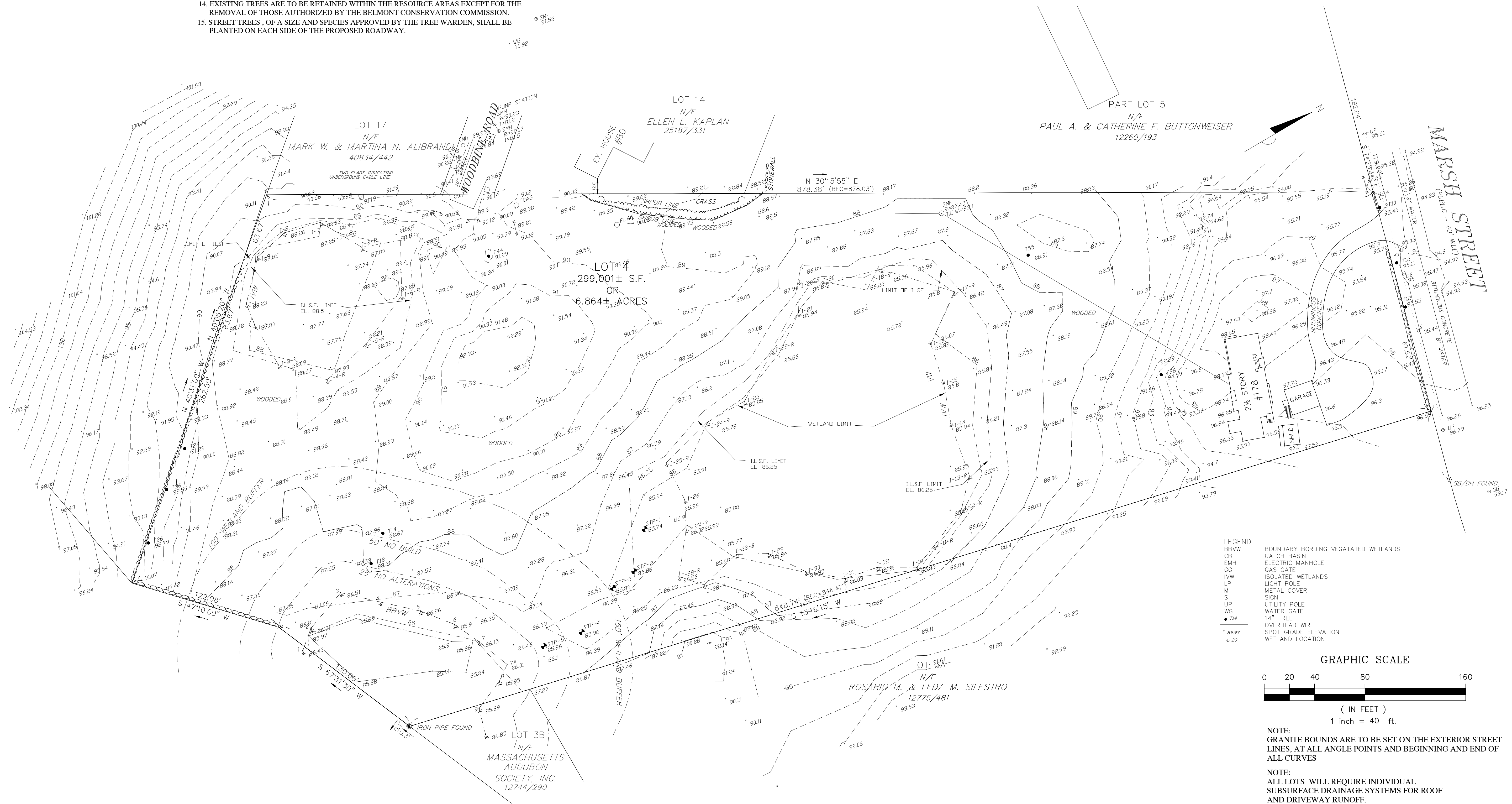
Approved

Date:

Board of Survey
Belmont, Massachusetts

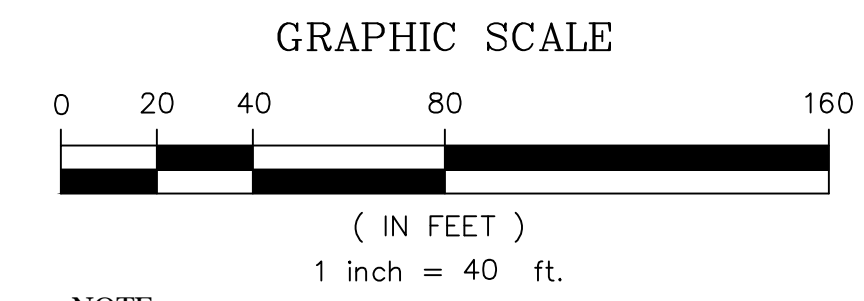
GENERAL NOTES

- EXISTING CONDITIONS SURVEY TAKEN FROM PLAN OF LAND PREPARED IN CAD FORMAT BY ROBER SURVEY, ARLINGTON, MA PLAN DATED JANUARY 30, 2014.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION ON THE GROUND AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER IMMEDIATELY FOR A DECISION PRIOR TO CONSTRUCTION.
- ALL AREAS OUTSIDE OF THE LIMIT OF WORK LINES SHALL NOT BE DISTURBED IN ANY MANNER BY THE CONTRACT OPERATIONS. THE CONTRACTOR SHALL KEEP OUT OF THESE AREAS AND PRESERVE THEIR EXISTING CHARACTER.
- INSTALL TEMPORARY EROSION CONTROL MEASURES PRIOR TO CONSTRUCTION FOR APPROVAL BY THE ENGINEER.
- PROVIDE SMOOTH TRANSITION AT CHANGES IN GRADE EXCEPT AS INDICATED ON THE DRAWINGS AND AS DIRECTED BY THE ENGINEER.
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- WHEREVER PROPOSED PAVEMENT AND CURBING MEET EXISTING, BLEND AND ALIGN SURFACES AND MATERIALS.
- ALL AREAS NOT OTHERWISE DEVELOPED SHALL BE FINE GRADED AND LOAMED.
- ADJUST EXISTING FRAMES, GRATES, AND COVERS SCHEDULED TO REMAIN AND SET ALL NEW GRATE FRAMES, GRATES AND COVERS TO MATCH SLOPE OF PROPOSED GRADES.
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- STREET TREES, OF A SIZE AND SPECIES APPROVED BY THE TREE WARDEN, SHALL BE PLANTED ON EACH SIDE OF THE PROPOSED ROADWAY.



LEGEND

- BBVW BOUNDARY BORDING VEGETATED WETLANDS
- CB CATCH BASIN
- EMH ELECTRIC MANHOLE
- GG GAS GATE
- IWV ISOLATED WETLANDS
- LP LIGHT POLE
- M METAL COVER
- S SIGN
- UP UTILITY POLE
- WG WATER GATE
- 14" TREE
- OVERHEAD WIRE
- SPOT GRADE ELEVATION
- WETLAND LOCATION



NOTE:
GRANITE BOUNDS ARE TO BE SET ON THE EXTERIOR STREET LINES, AT ALL ANGLE POINTS AND BEGINNING AND END OF ALL CURVES

NOTE:
ALL LOTS WILL REQUIRE INDIVIDUAL SUBSURFACE DRAINAGE SYSTEMS FOR ROOF AND DRIVEWAY RUNOFF.

Gala Simon Associates Inc.
394 LOWELL STREET, SUITE 18
LEWINGTON, MA 02420
Tel: (781) 676-2962

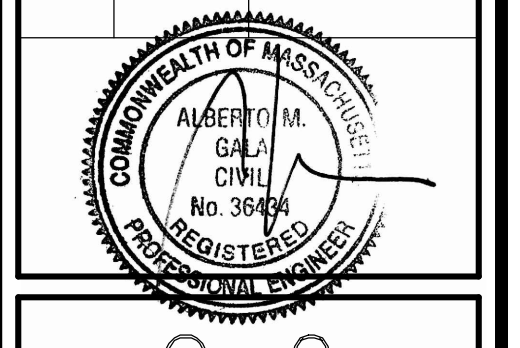
GSA

Civil Engineers

EXISTING CONDITIONS PLAN

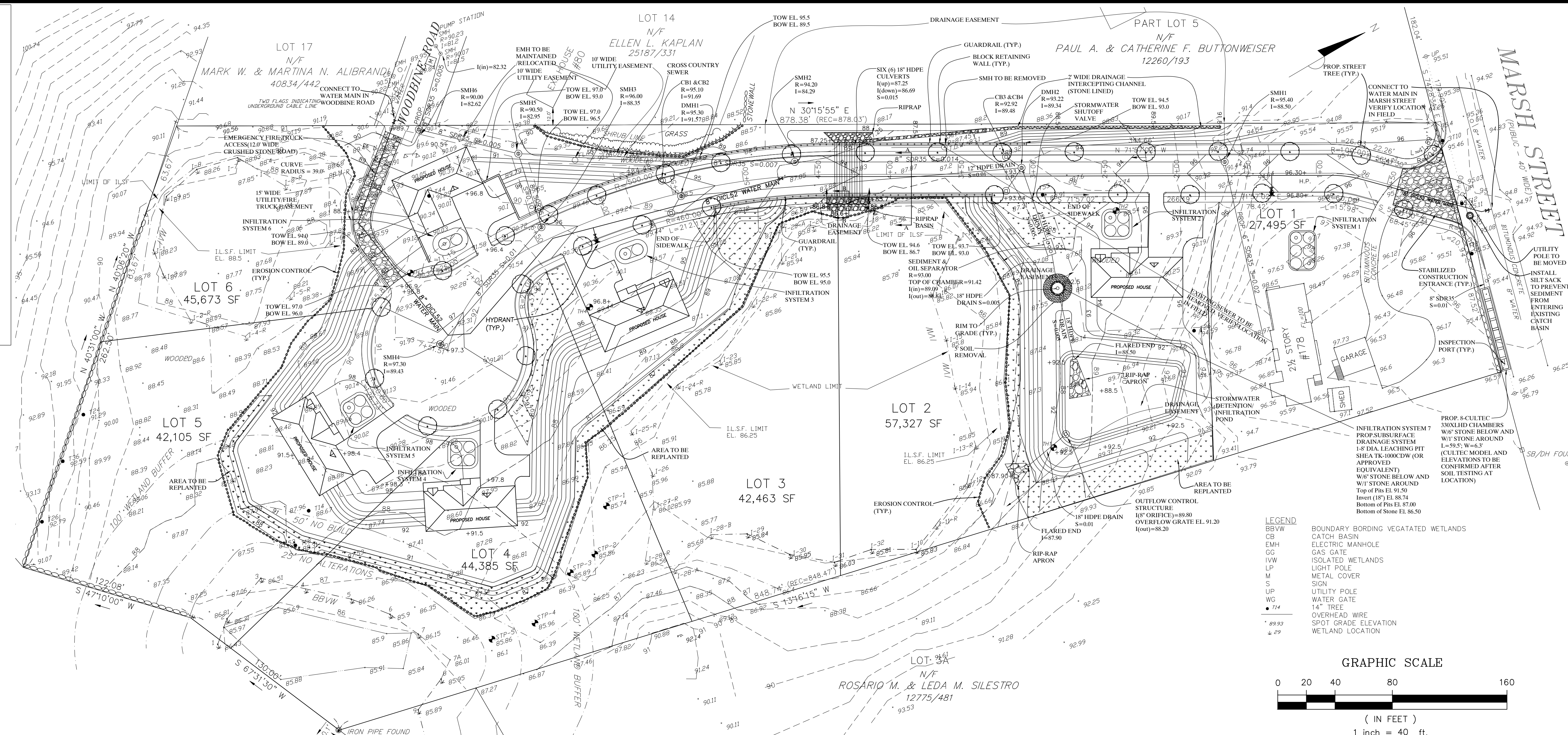
SLEEPY HOLLOW ROAD 178 MARSH STREET BELMONT, MASSACHUSETTS

Job No. 1405	Date: 3/14/2016	
Drawn By: AG	Scale: AS SHOWN	
Rev#	Date:	Description:
1	8.10.16	per review
2	10.19.16	per review
3	2.24.17	per review
4	3.1.17	details
5	3.16.17	emergency access



C-0

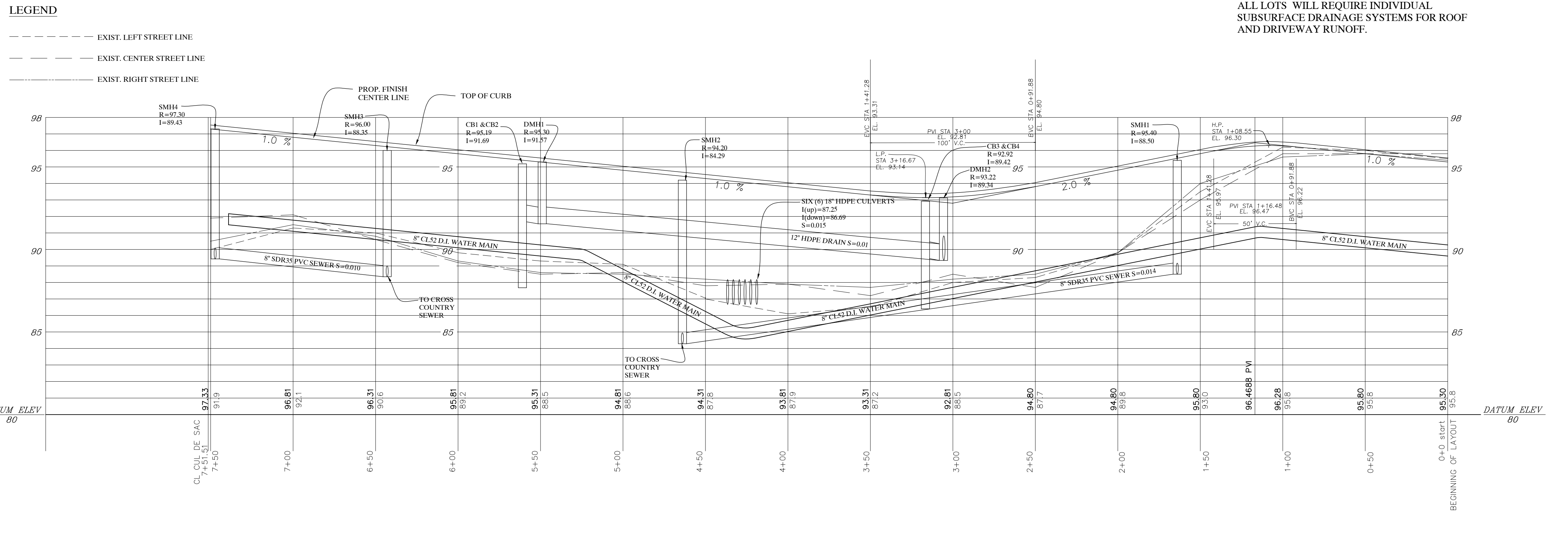
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 Town Engineer _____
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 Belmont, Massachusetts



PLAN
 SCALE: 1"=40'

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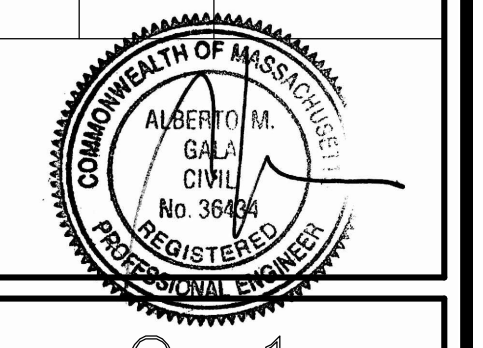
Gala Simon Associates Inc.
 394 LOWELL STREET, SUITE 18
 LEXINGTON, MA 02420
 Tel: (781) 676-2962

GSA
 Civil Engineers

GRADING & UTILITY PLAN

SLEEPY HOLLOW ROAD
178 MARSH STREET
BELMONT, MASSACHUSETTS

Job No. 1405	Date: 3/14/2016
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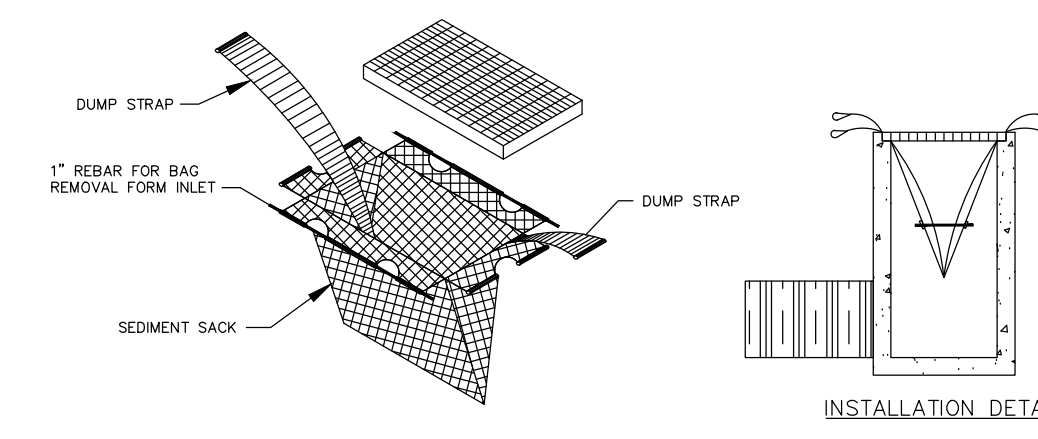
Date:

Board of Survey
Belmont, Massachusetts

UTILITY NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN ON THIS PLAN, PRIOR TO ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION BEFORE PROCEEDING WITH THE WORK.

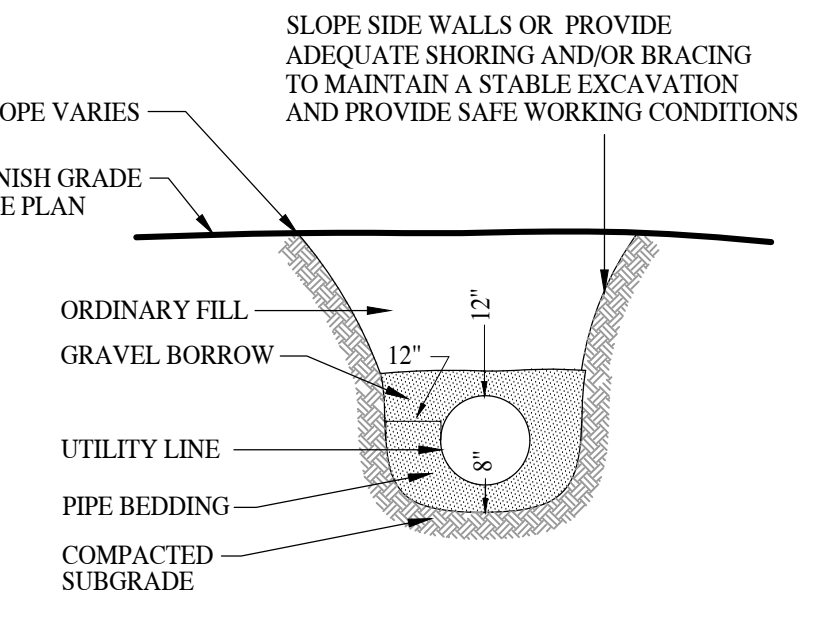
THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON THE FIELD LOCATION OF ALL VISIBLE STRUCTURES SUCH AS CATCH BASINS, MANHOLES, WATERGATES, ETC. AND COMPILED FROM PLANS SUPPLIED BY VARIOUS UTILITY COMPANIES AND GOVERNMENT AGENCIES. ALL CONTRACTORS SHOULD NOTIFY, IN WRITING, ALL UTILITY COMPANIES OR AGENCIES PRIOR TO ANY EXCAVATION WORK. CALL DIGSAFE AT 1-800-322-4844



- NOTES:
- SOME MUNICIPALITIES DO NOT ALLOW GUTTER PROTECTION ON PUBLIC ROADS. SILT BAGS SHOULD BE USED WITH THESE CASES.
 - BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.

1 SILT SACK

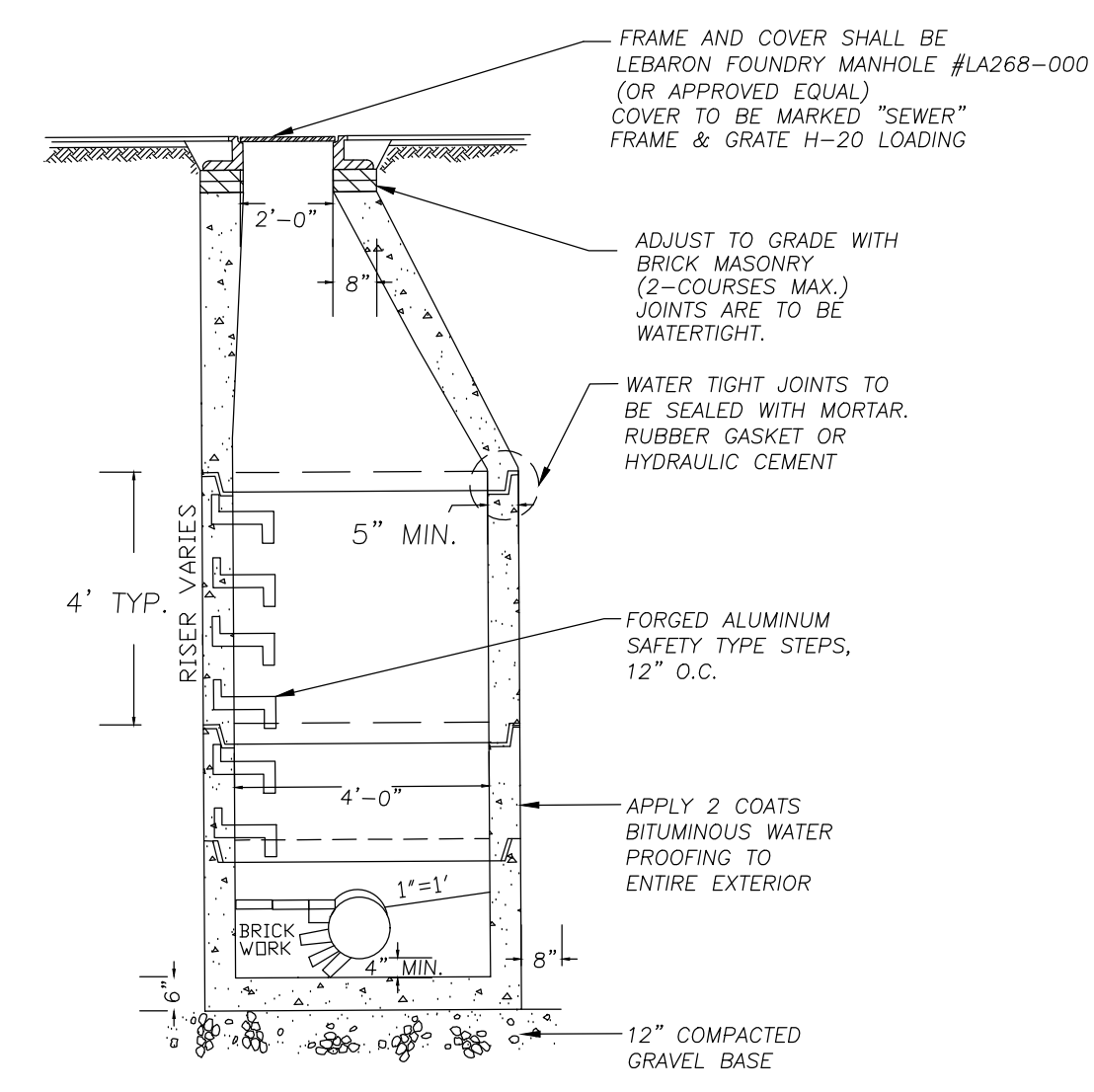
C-2 SCALE: NTS



- NOTES:
- 8" SAND CUSHION REQUIRED AT ALL LEDGE OR PIPE CROSSING
 - NO STONE GREATER THAN 3" TO BE PLACED OVER PIPE TO FINISH GRADE
 - NO STONE GREATER THAN 3" WITHIN 12" OF PIPE.
 - GRAVEL BORROW SHALL COMPLY WITH MHD M1.03.0 TYPE C.
 - PIPE BEDDING SHALL COMPLY WITH MHD M1.04.1

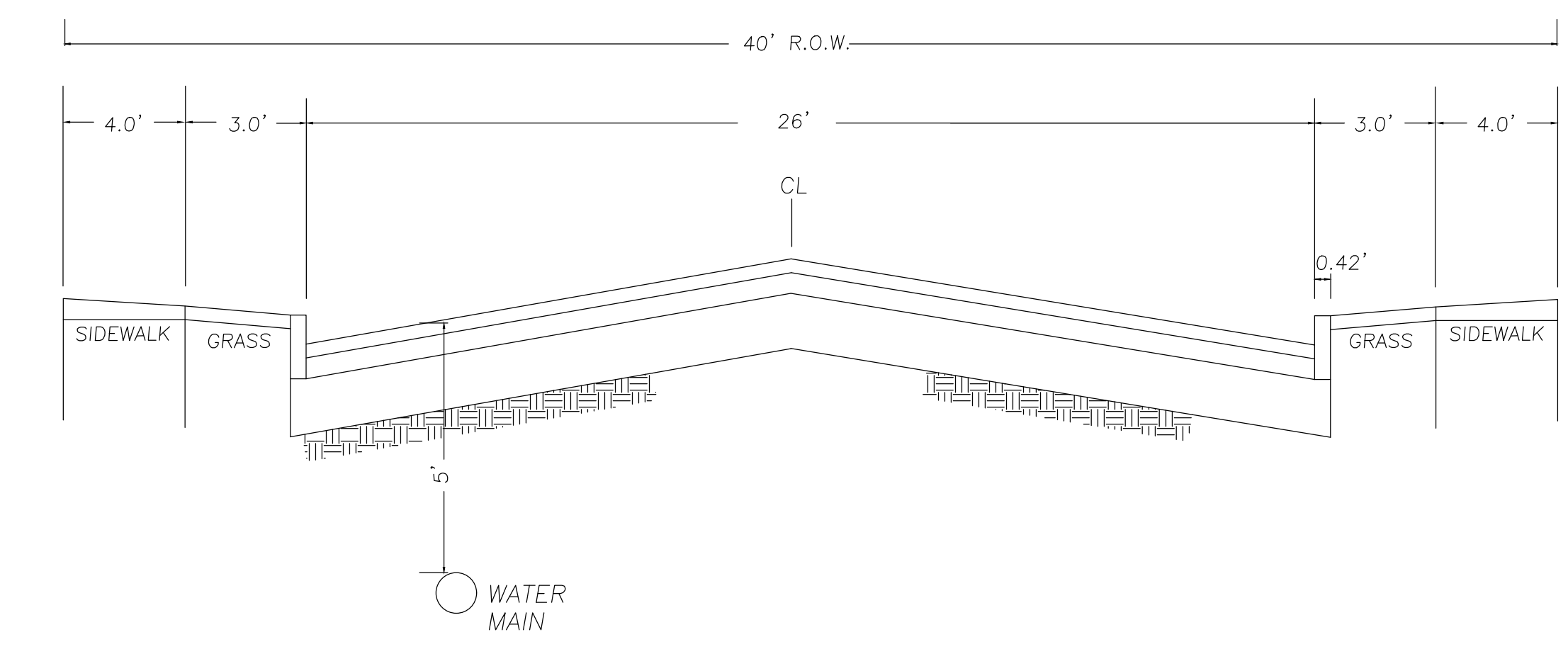
4 TYPICAL UTILITY TRENCH

C-2 SCALE: NTS



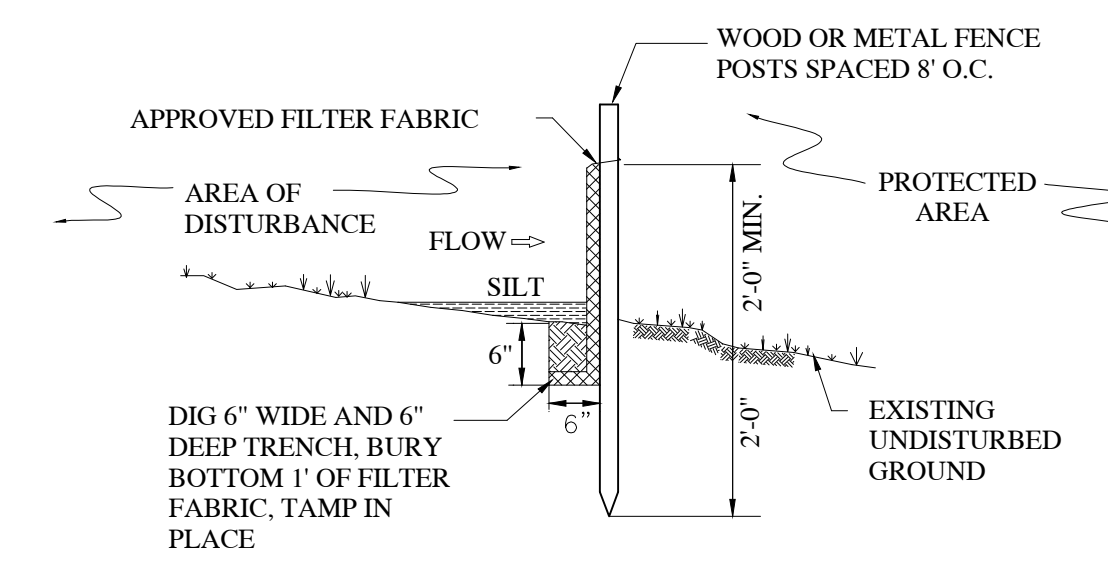
2 SEWER MANHOLE

C-2 SCALE: NTS



3 ROADWAY SECTION

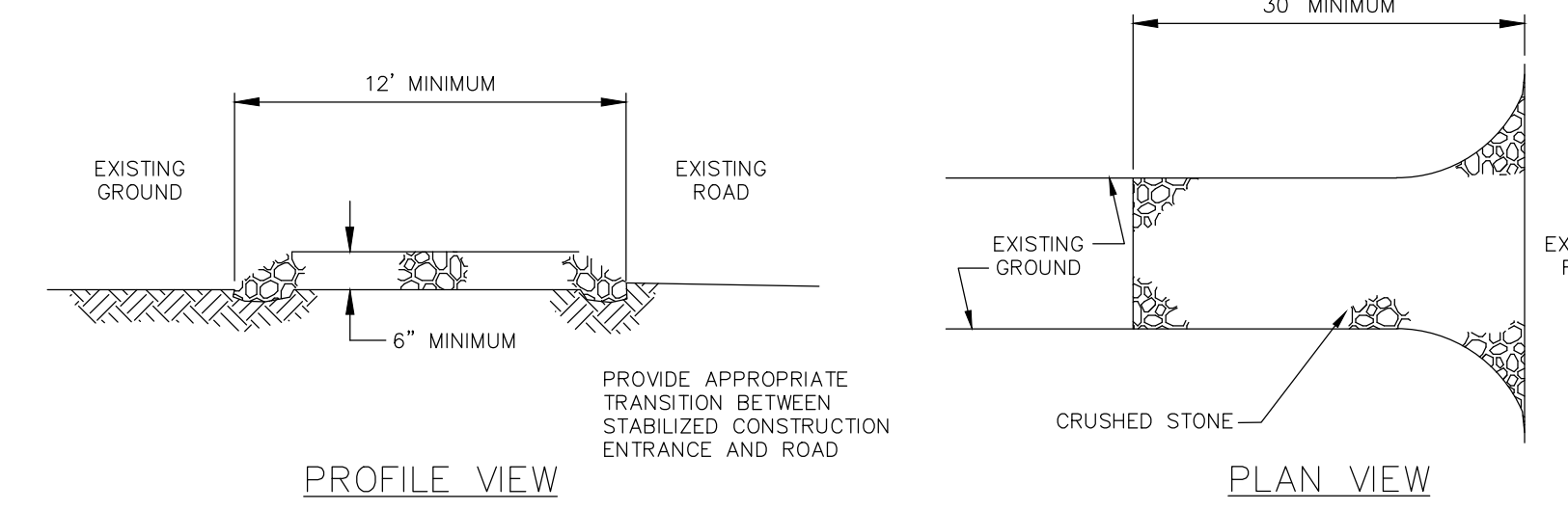
C-2 SCALE: NTS



- NOTES:
- PLACE SILT FENCE AT LOCATIONS AS SHOWN.
 - SILT FENCE SHALL BE INSTALLED SO WATER CANNOT BYPASS THE FENCE AROUND THE SIDES.
 - INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS POSSIBLE.
 - SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED.

5 EROSION CONTROL - SILT FENCE

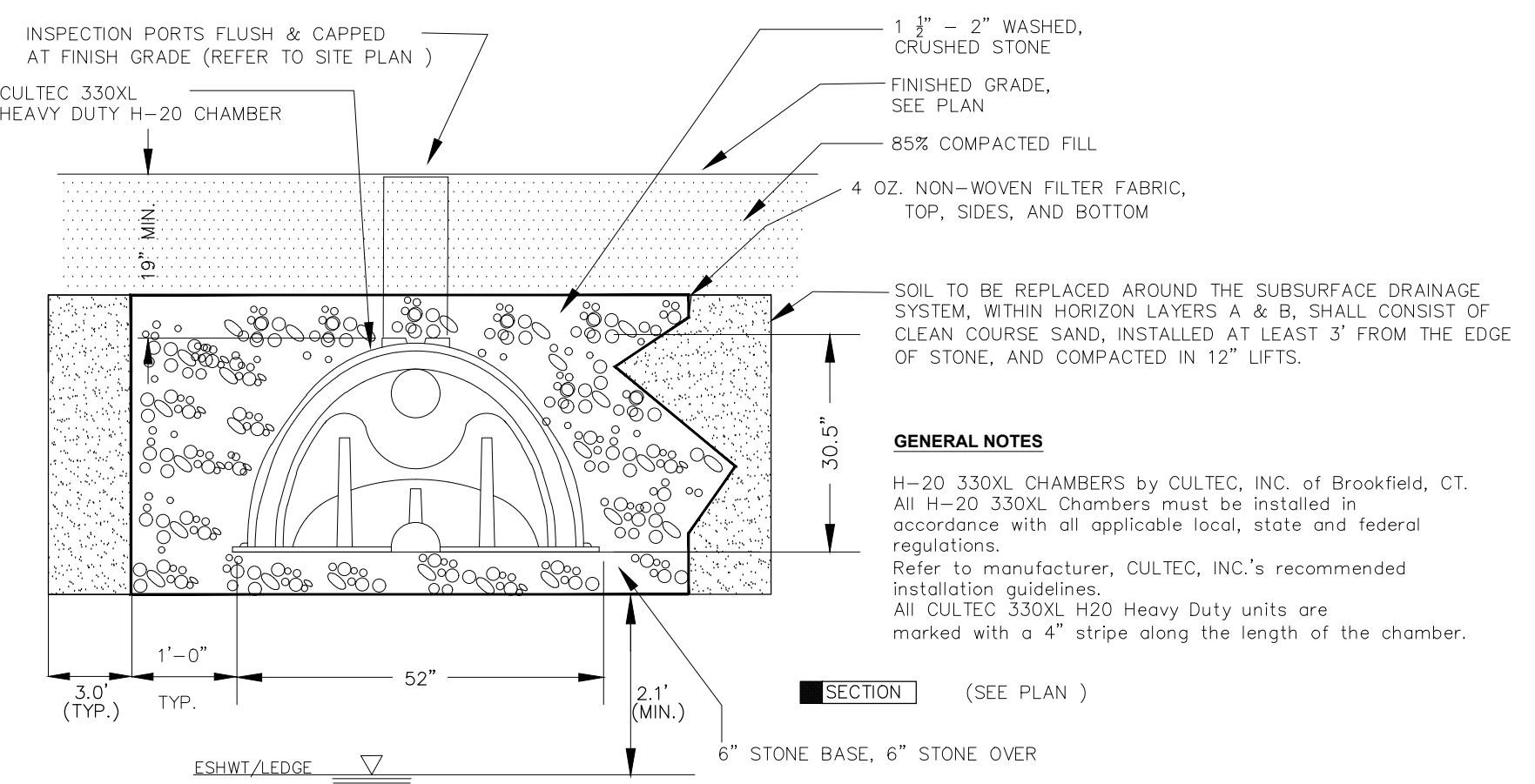
C-2 SCALE: NTS



THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO EXISTING ROAD. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO EXISTING ROAD SHALL BE REMOVED IMMEDIATELY.

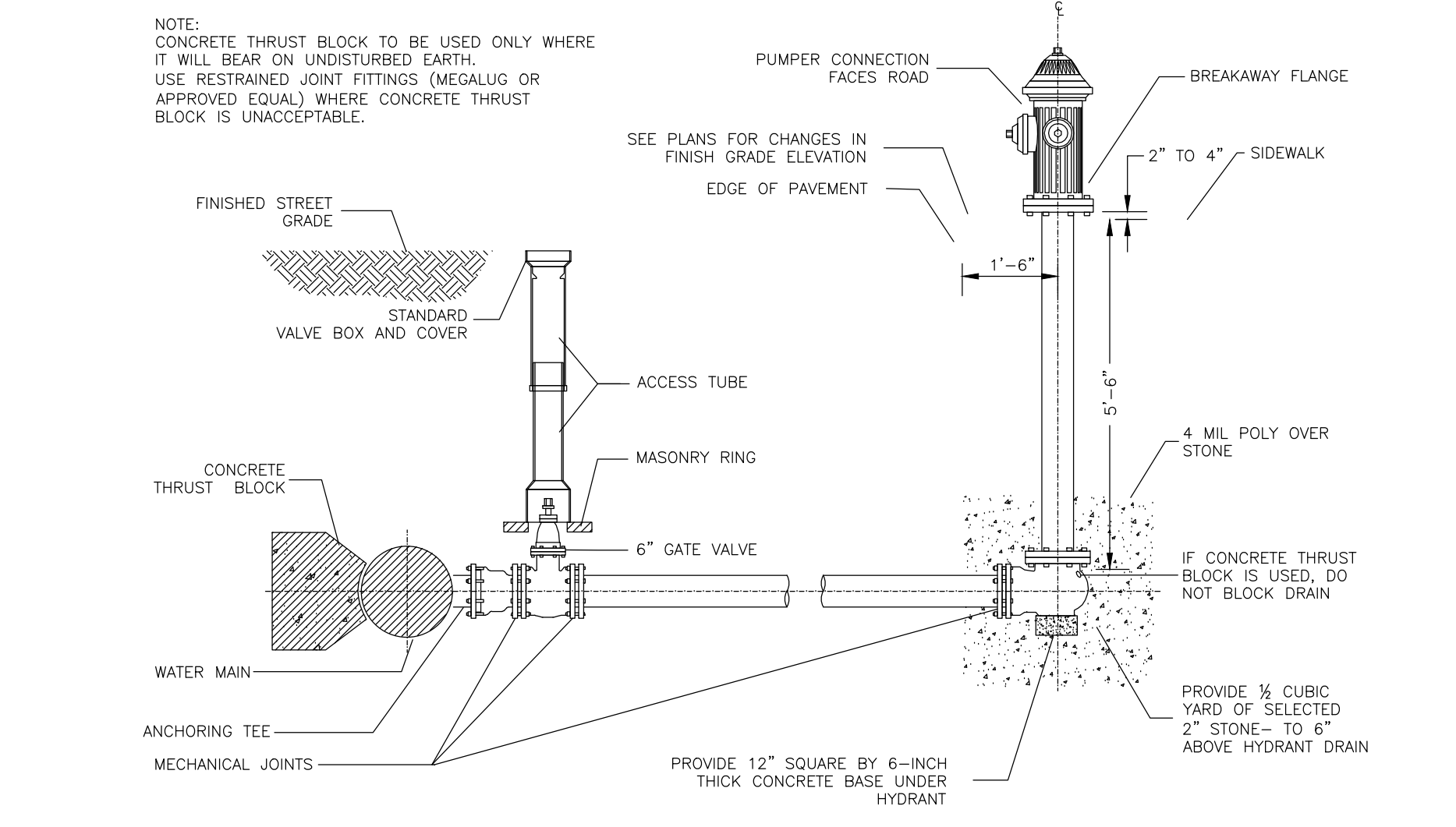
7 STABILIZED CONSTRUCTION ENTRANCE

C-2 SCALE: NTS



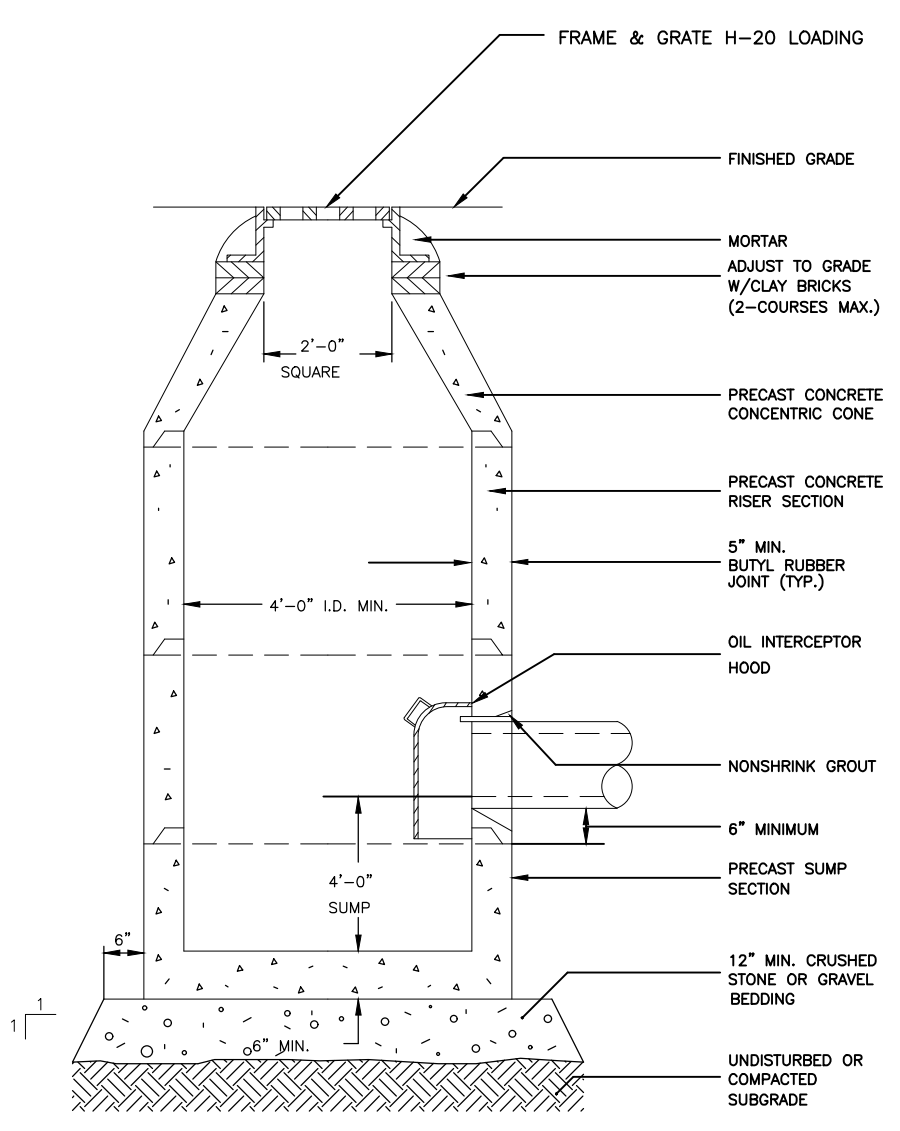
GENERAL NOTES

H-20 330XL CHAMBERS BY CULTEC, INC. OF BROOKFIELD, CT. ALL H-20 330XL Chambers must be installed in accordance with all applicable local, state and federal regulations. Refer to manufacturer, CULTEC, INC.'s recommended installation guidelines. All CULTEC 330XL H20 Heavy Duty units are marked with a 4\"/>



6 TYP. FIRE HYDRANT CONNECTION

C-2 SCALE: NTS

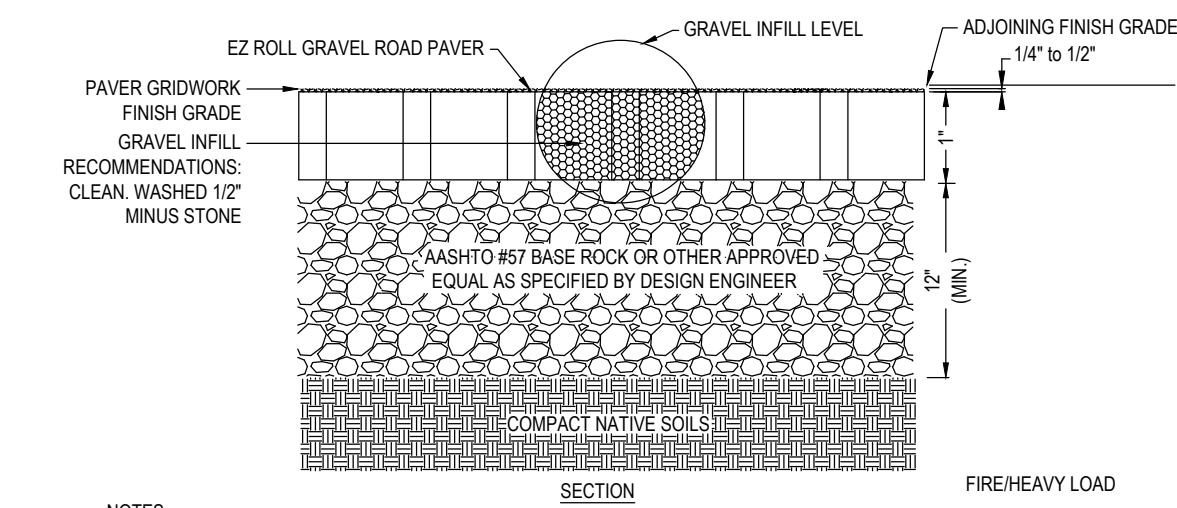


8 CATCH BASIN

C-2 SCALE: NTS

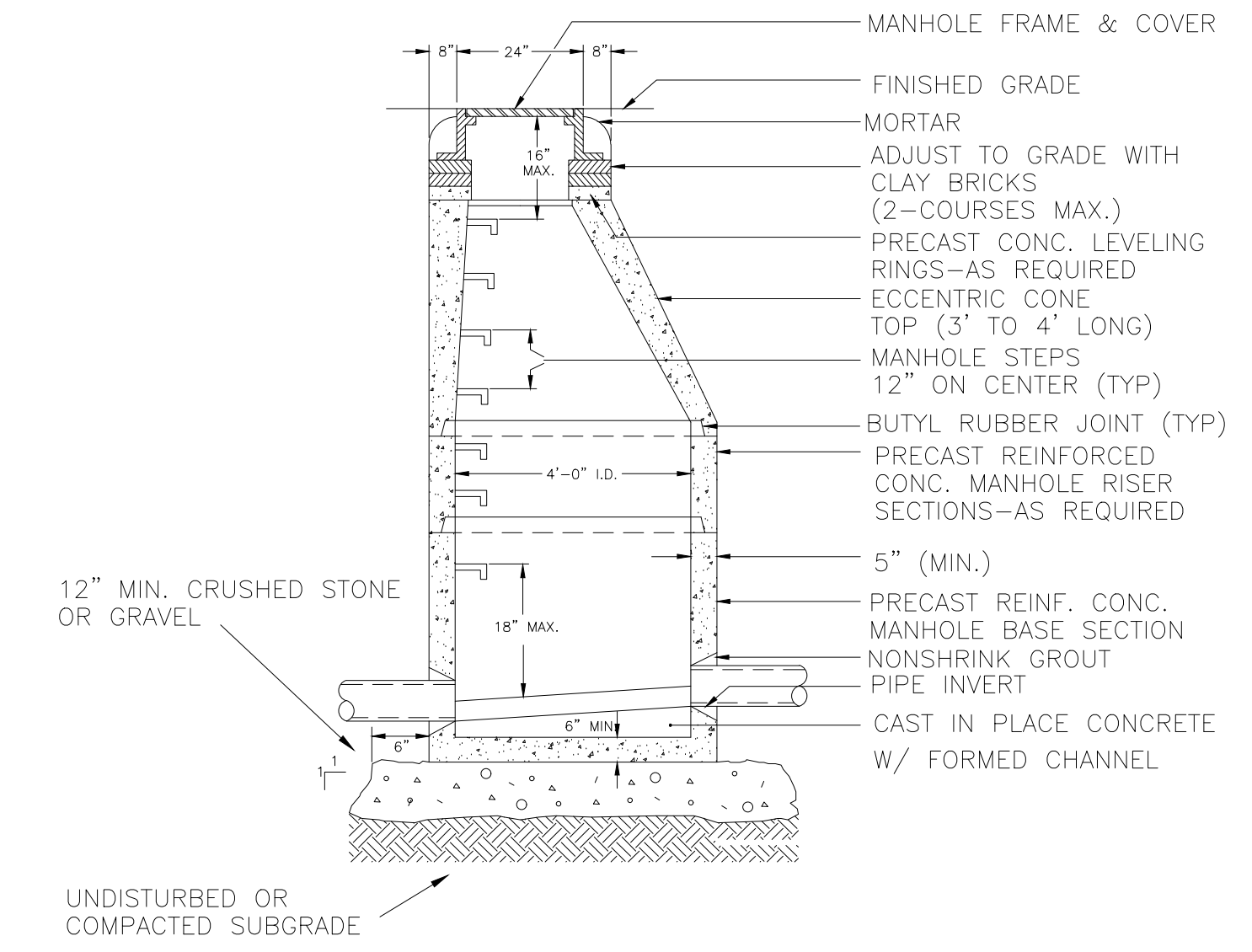
9 H-20 CULTEC 330XL HD CHAMBER SYSTEM

C-2 SCALE: NTS



10 NDS EZ ROLL GRAVEL PAVERS

C-2 SCALE: NTS



11 STORM DRAIN MANHOLE

C-2 SCALE: NTS

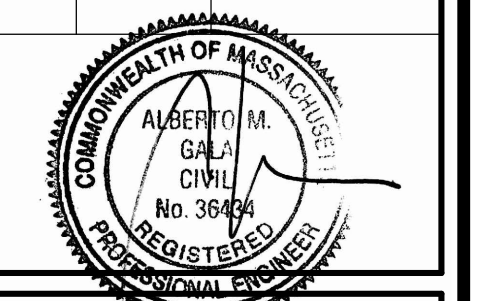
Gala Simon Associates Inc.
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DETAILS

SLEEPY HOLLOW ROAD
178 MARSH STREET
BELMONT, MASSACHUSETTS

Rev#	Date	Description
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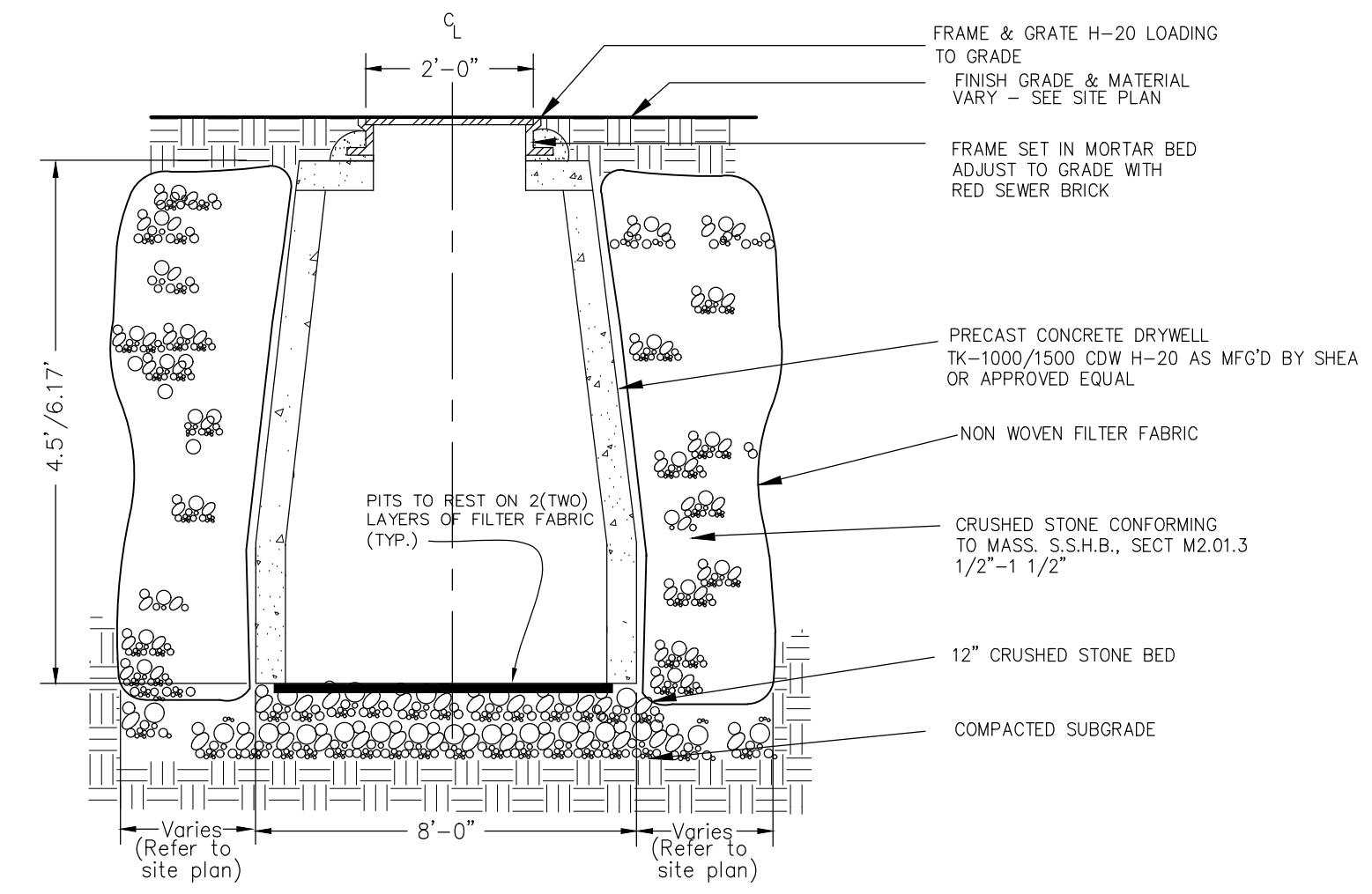
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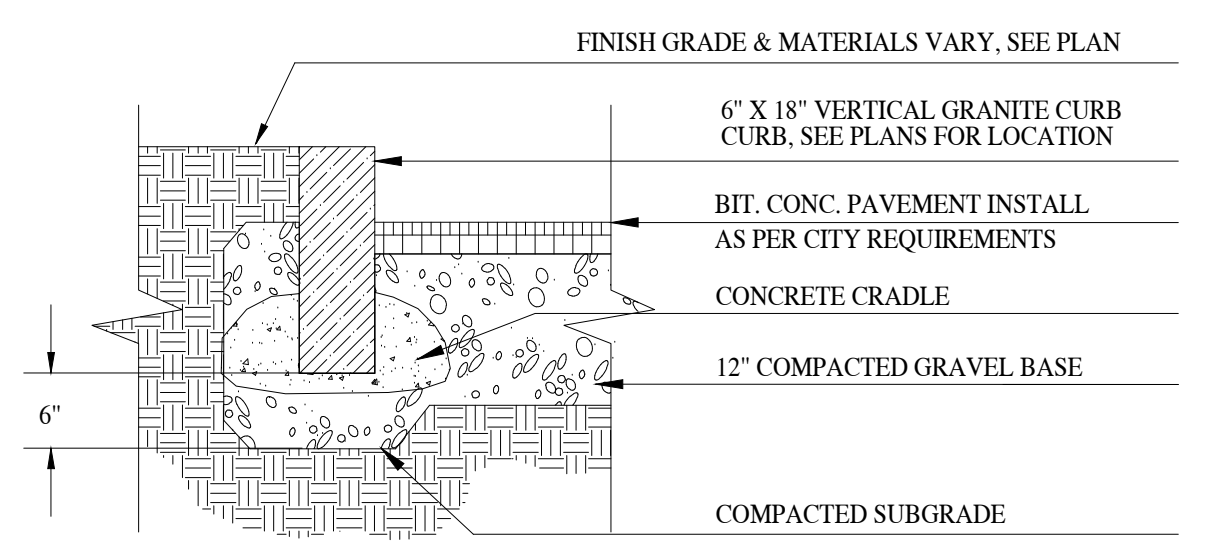
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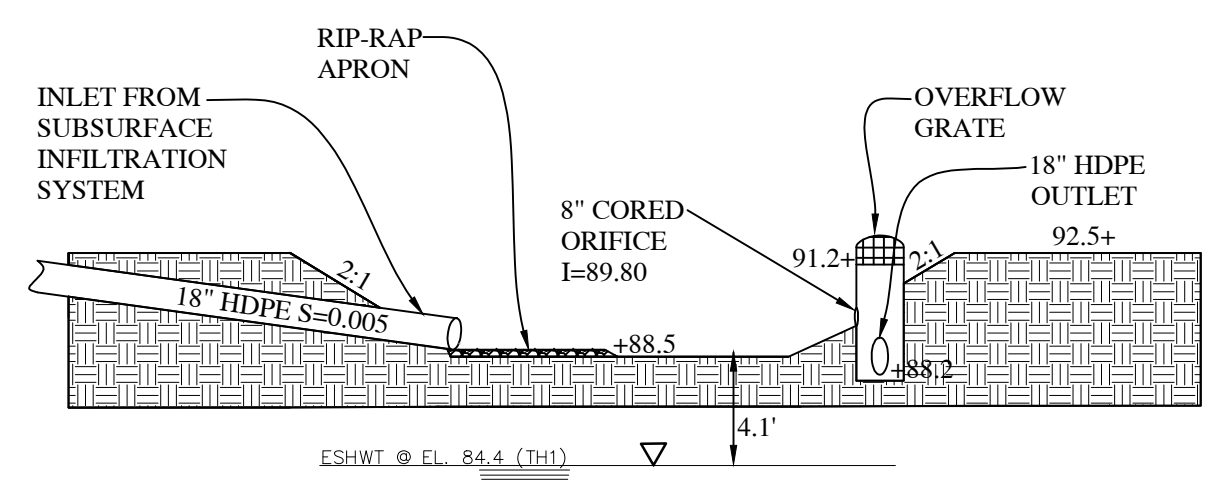
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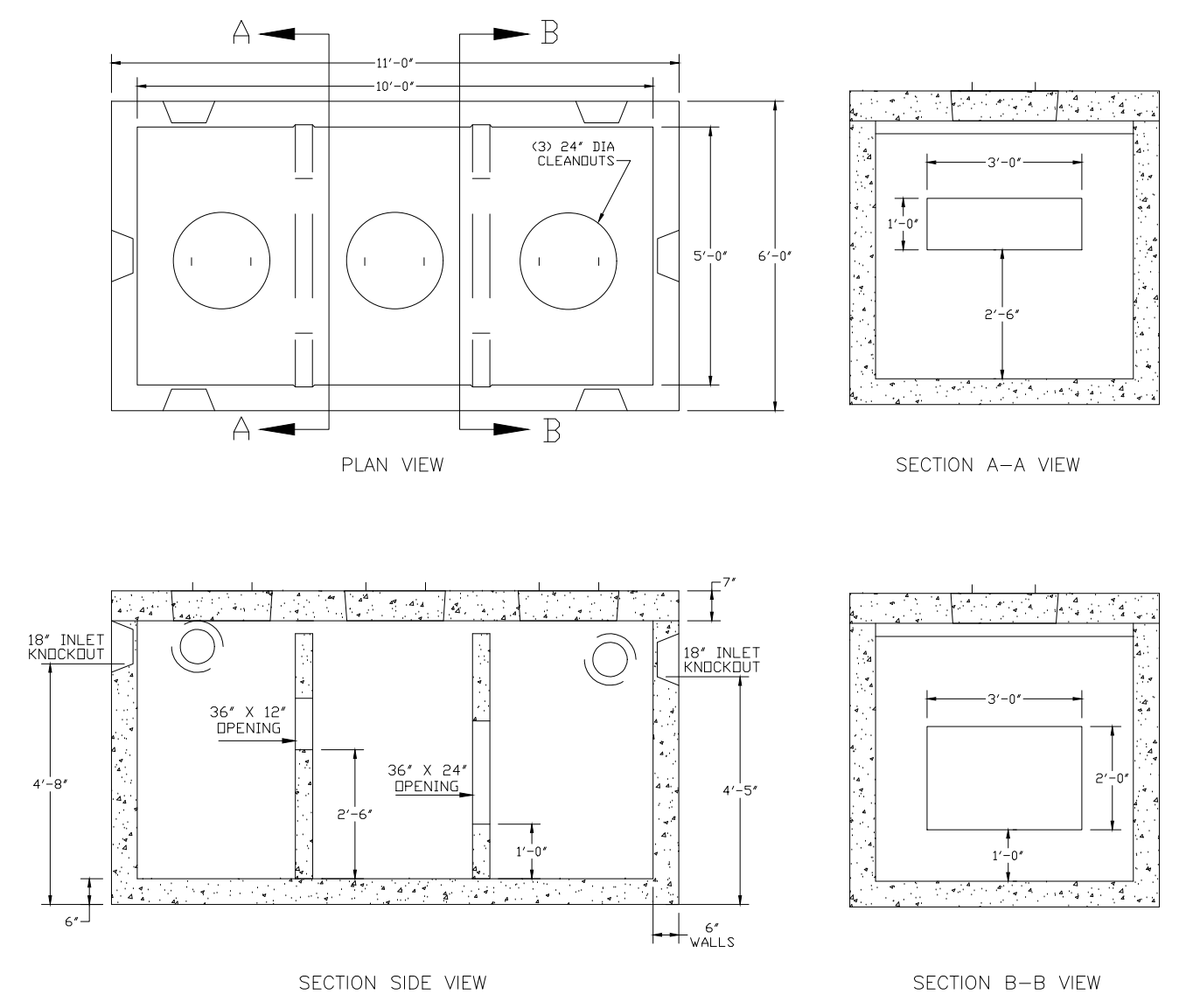
1 H2O LEACHING PIT SYSTEM
C-3 SCALE: NTS



2 VERTICAL GRANITE CURB
C-3 SCALE: NTS

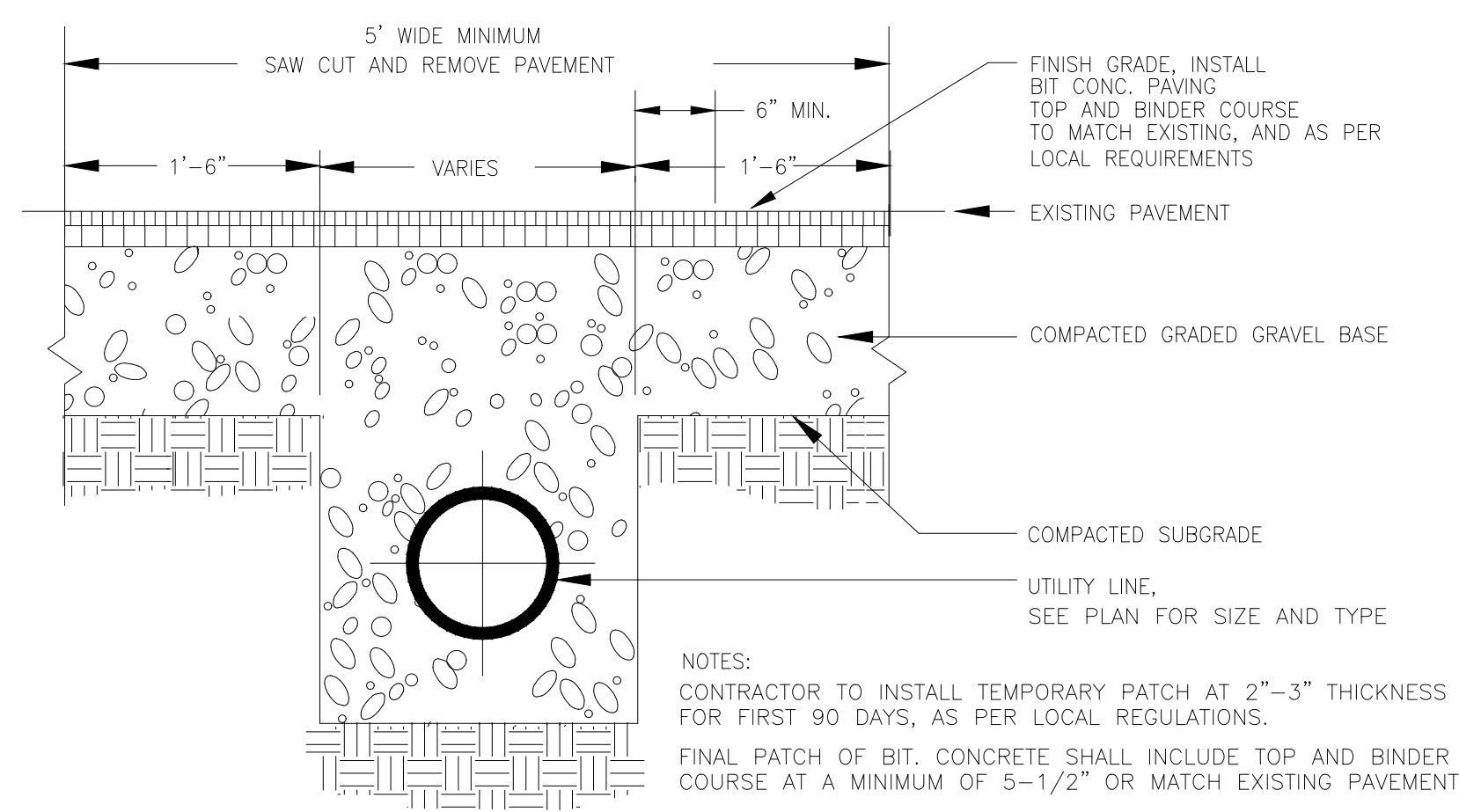


3 DETENTION/INFILTRATION POND
C-3 SCALE: NTS

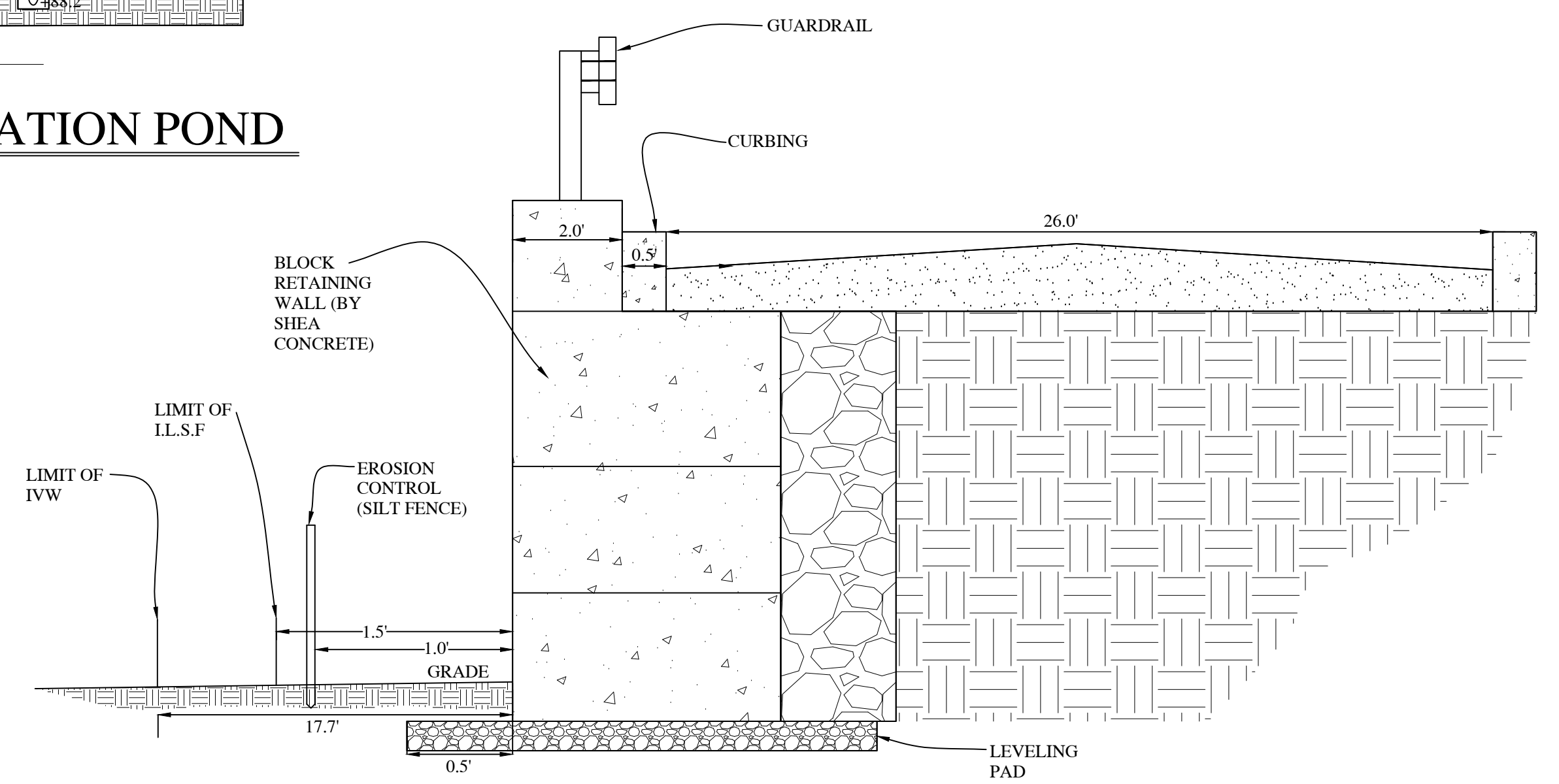


NOTES:
1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
2. DESIGNED FOR H-20 LOADING.
ALSO AVAILABLE IN H-10 LOADING WITH 3" WALL.
3. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.

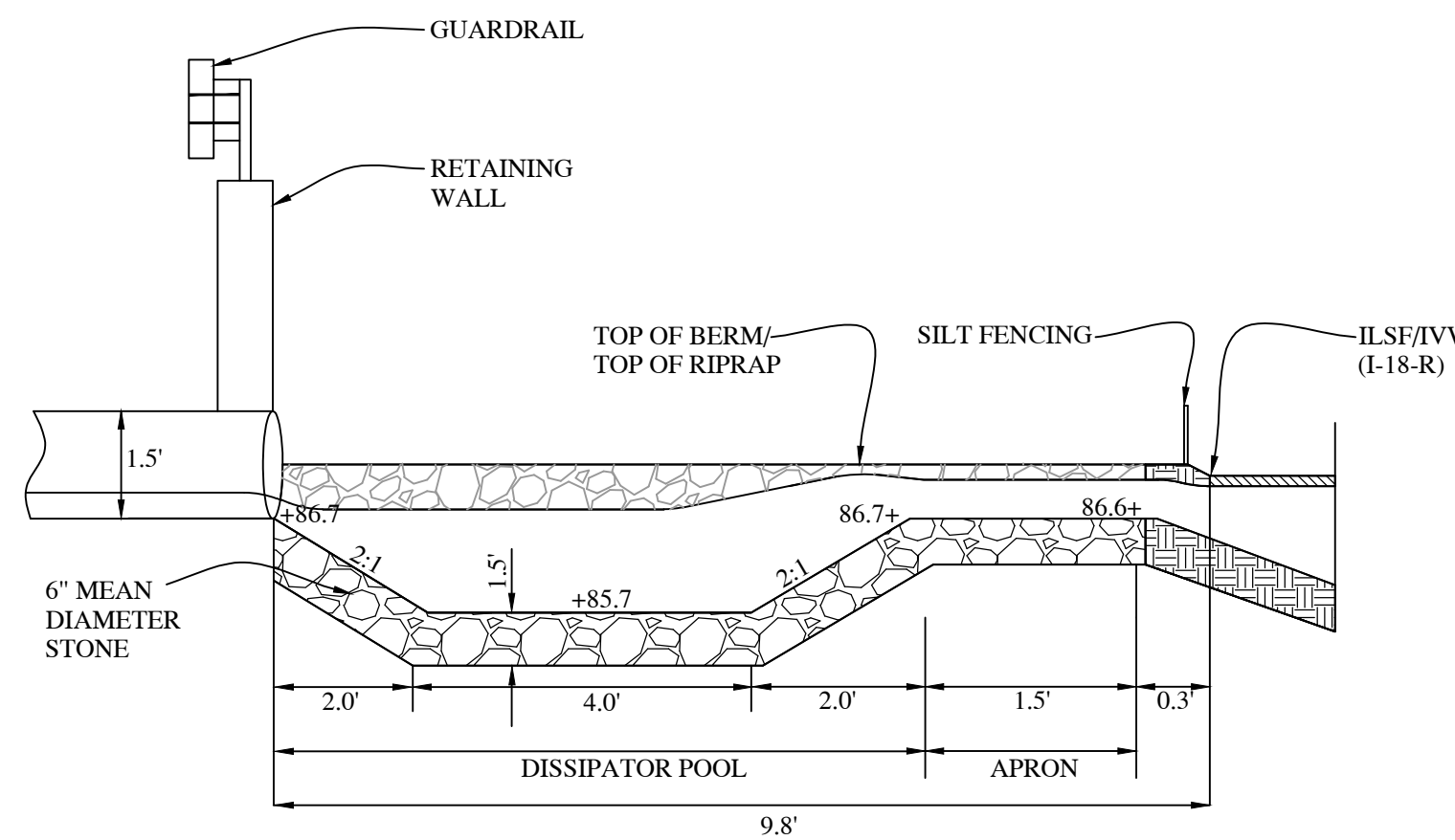
4 SEDIMENT & OIL SEPARATOR
C-3 SCALE: NTS



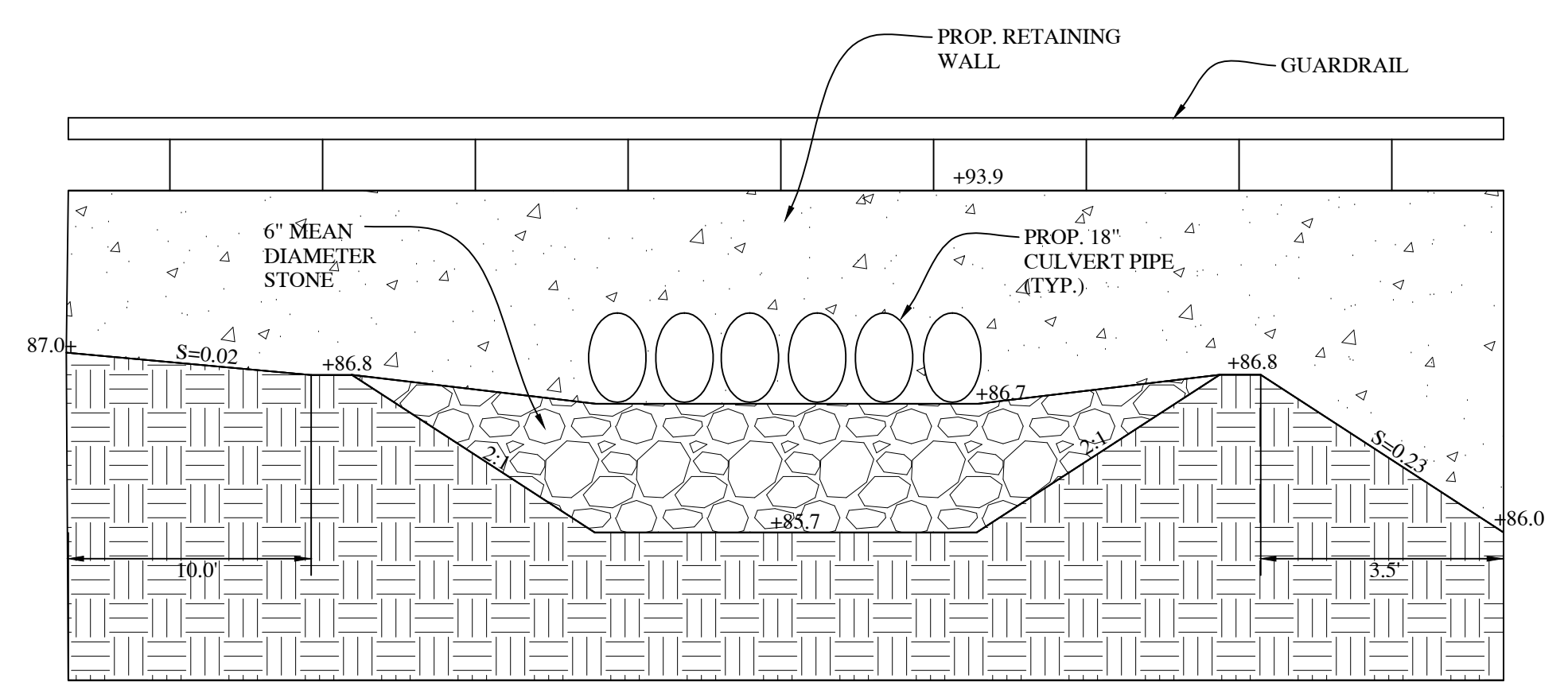
5 BIT. CONC. ROADWAY REPAIR
C-3 SCALE: NTS



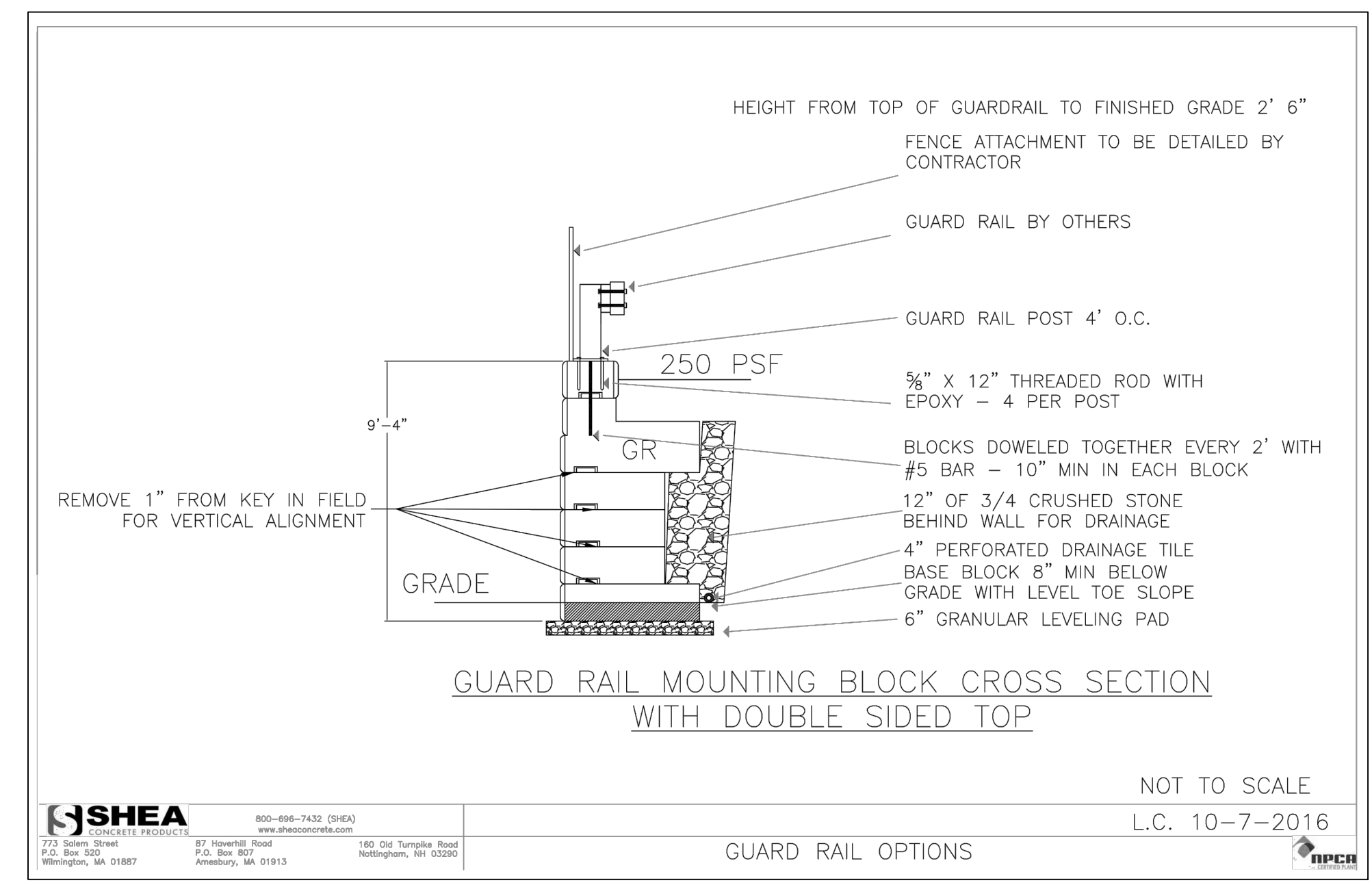
6 SECTION A-A
C-3 SCALE: NTS



7 RIPRAP BASIN (SECTION B-B)
C-3 SCALE: NTS



8 RIPRAP BASIN (SECTION C-C)
C-3 SCALE: NTS



9 WALL CROSS SECTION (BY SHEA CONCRETE)
C-3 SCALE: NTS

SOIL TEST DATA
Performed by Gala Simon Associates on February 4, 2014
For Drainage System Design Only

TH1 (EL. 88.1)					TH3 (EL. 90.4)						
Horizon	Depth	Texture	Mottles	Color	Elevation	Horizon	Depth	Texture	Mottles	Color	Elevation
A	12"	FSL	-	10YR6/6	87.1	A	10"	FSL	-	10YR3/1	89.6
B	30"	FLS	-	10YR4/2	85.6	B	36"	FLS	-	7.5YR6/6	87.4
C	84"	LS	-	2.5Y5/2	81.1	C	80"	LS	-	2.5Y5/2	83.7
NO WATER NO REFUSAL MOTTLING @ 44" EL.84.4					NO WATER BOULDER REFUSAL @80" EL.83.7						

TH2 (EL. 88.5)					TH4 (EL. 89.4)						
Horizon	Depth	Texture	Mottles	Color	Elevation	Horizon	Depth	Texture	Mottles	Color	Elevation
A	8"	FSL	-	10YR4/2	87.1	A	8"	FSL	-	10YR4/2	88.7
B	22"	FLS	-	10YR6/6	85.6	B	32"	FLS	-	10YR6/6	86.7
C	78"	LS	-	2.5Y5/2	81.1	C	84"	LS	-	2.5Y5/2	82.4
NO WATER NO REFUSAL MOTTLING @ 48" EL.84.5					NO WATER NO REFUSAL						

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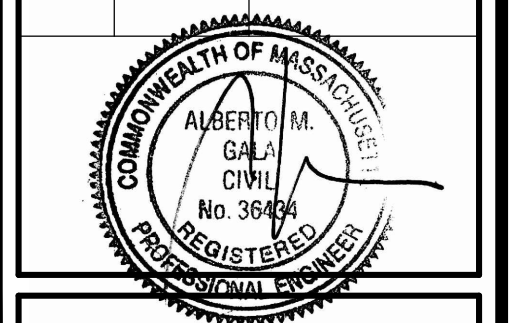
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C-3




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

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



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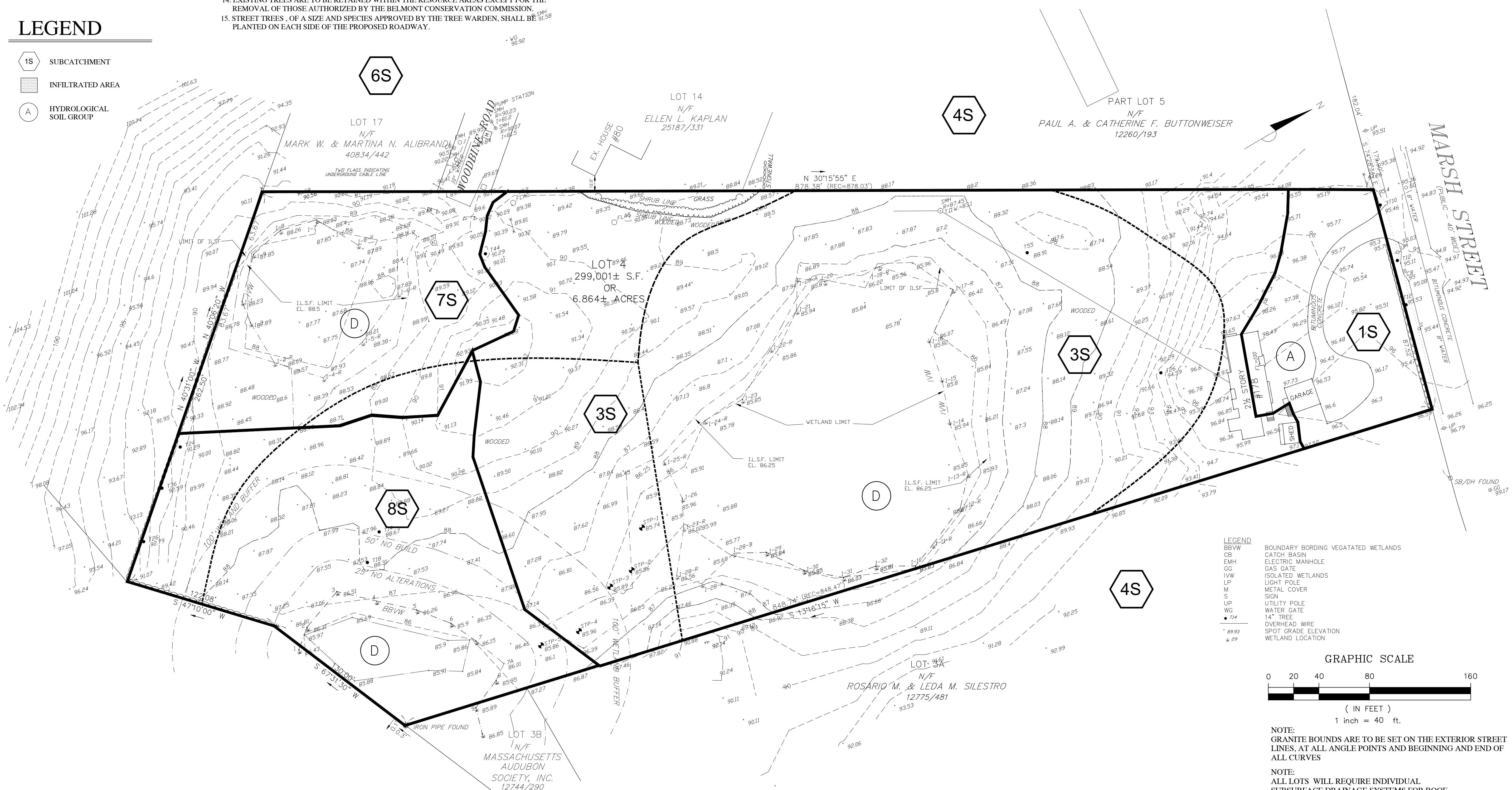
-  SUBCATCHMENT
-  INFILTRATED AREA
-  HYDROLOGICAL SOIL GROUP

OFF-SITE AREAS

-  OFFSITE PROPERTIES AREA
198,417 SF
 -  WOODBINE ROAD & OFFSITE AREA
616,137 SF
- TOTAL = 814,554 SF

ON-SITE AREAS

-  SITE TO MARSH STREET AREA
20,713 SF
 -  SITE TO DEPRESSION AREA
185,732 SF
 -  SITE TO WOODBINE DEPRESSION AREA
37,884 SF
 -  SITE TO WETLANDS AREA
54,672 SF
- TOTAL = 299,001 SF



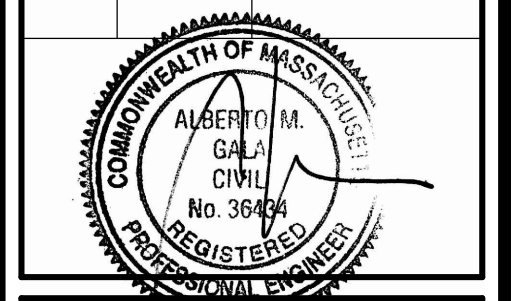
Gala Simon Associates Inc.
 394 LOWELL STREET, SUITE 18
 LEXINGTON, MA 02420
 Tel: (781) 676-2962

GSA
 Civil Engineers

EXISTING DRAINAGE
 DELINEATION PLAN

SLEEPY HOLLOW ROAD
 178 MARSH STREET
 BELMONT, MASSACHUSETTS

Job No. 1405	Date: 4/13/2016	
Drawn By: AG	Scale: AS SHOWN	
Rev#	Date	Description
1	8.10.16	per review
2	10.19.16	per review
3	2.24.17	per review
4	3.1.17	details
5	3.16.17	emergency access



Date: Filed

Town Clerk

Approved

Town Engineer

Approved

Date:

Board of Survey
Belmont, Massachusetts

GENERAL NOTES

- EXISTING CONDITIONS SURVEY TAKEN FROM PLAN OF LAND PREPARED IN CAD FORMAT BY ROBER SURVEY, ARLINGTON, MA PLAN DATED JANUARY 30, 2014.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION ON THE GROUND AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER IMMEDIATELY FOR A DECISION PRIOR TO CONSTRUCTION.
- ALL AREAS OUTSIDE OF THE LIMIT OF WORK LINES SHALL NOT BE DISTURBED IN ANY MANNER BY THE CONTRACT OPERATIONS. THE CONTRACTOR SHALL KEEP OUT OF THESE AREAS AND PRESERVE THEIR EXISTING CHARACTER.
- INSTALL TEMPORARY EROSION CONTROL MEASURES PRIOR TO CONSTRUCTION FOR APPROVAL BY THE ENGINEER.
- PROVIDE SMOOTH TRANSITION AT CHANGES IN GRADE EXCEPT AS INDICATED ON THE DRAWINGS AND AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNDERGROUND UTILITY LINES, ACTIVE OR NOT, AND SHALL MAINTAIN A CLOSE AND CONSTANT CONTACT WITH ALL UTILITY COMPANIES INVOLVED. CALL DIG-SAFE 888-344-7233
- WHEREVER PROPOSED PAVEMENT AND CURBING MEET EXISTING, BLEND AND ALIGN SURFACES AND MATERIALS.
- ALL AREAS NOT OTHERWISE DEVELOPED SHALL BE FINE GRADED AND LOADED.
- ADJUST EXISTING FRAMES, GRATES, AND COVERS SCHEDULED TO REMAIN AND SET ALL NEW GRATE FRAMES, GRATES AND COVERS TO MATCH SLOPE OF PROPOSED GRADES.
- ALL ELEVATIONS ARE REFERENCED TO AN ASSUMED DATUM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE WITHIN OR OUTSIDE THE LIMIT OF WORK DUE TO CONTRACTOR OPERATIONS. CONTRACTOR SHALL RESTORE ANY DAMAGED AREAS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS, PERMITTING, AND LICENSES ISSUED AT THE FEDERAL, STATE AND LOCAL AGENCIES.
- CONTRACTOR SHALL COORDINATE ALL SITE UTILITY IMPROVEMENTS WITH THE TOWN OF BELMONT OFFICIALS.
- EXISTING TREES ARE TO BE RETAINED WITHIN THE RESOURCE AREAS EXCEPT FOR THE REMOVAL OF THOSE AUTHORIZED BY THE BELMONT CONSERVATION COMMISSION.
- STREET TREES, OF A SIZE AND SPECIES APPROVED BY THE TREE WARDEN, SHALL BE PLANTED ON EACH SIDE OF THE PROPOSED ROADWAY.

OFF-SITE AREAS

- 4S OFFSITE PROPERTIES AREA
198,417 SF
- 6S WOODBINE ROAD & OFFSITE AREA
616,137 SF

TOTAL = 814,554 SF

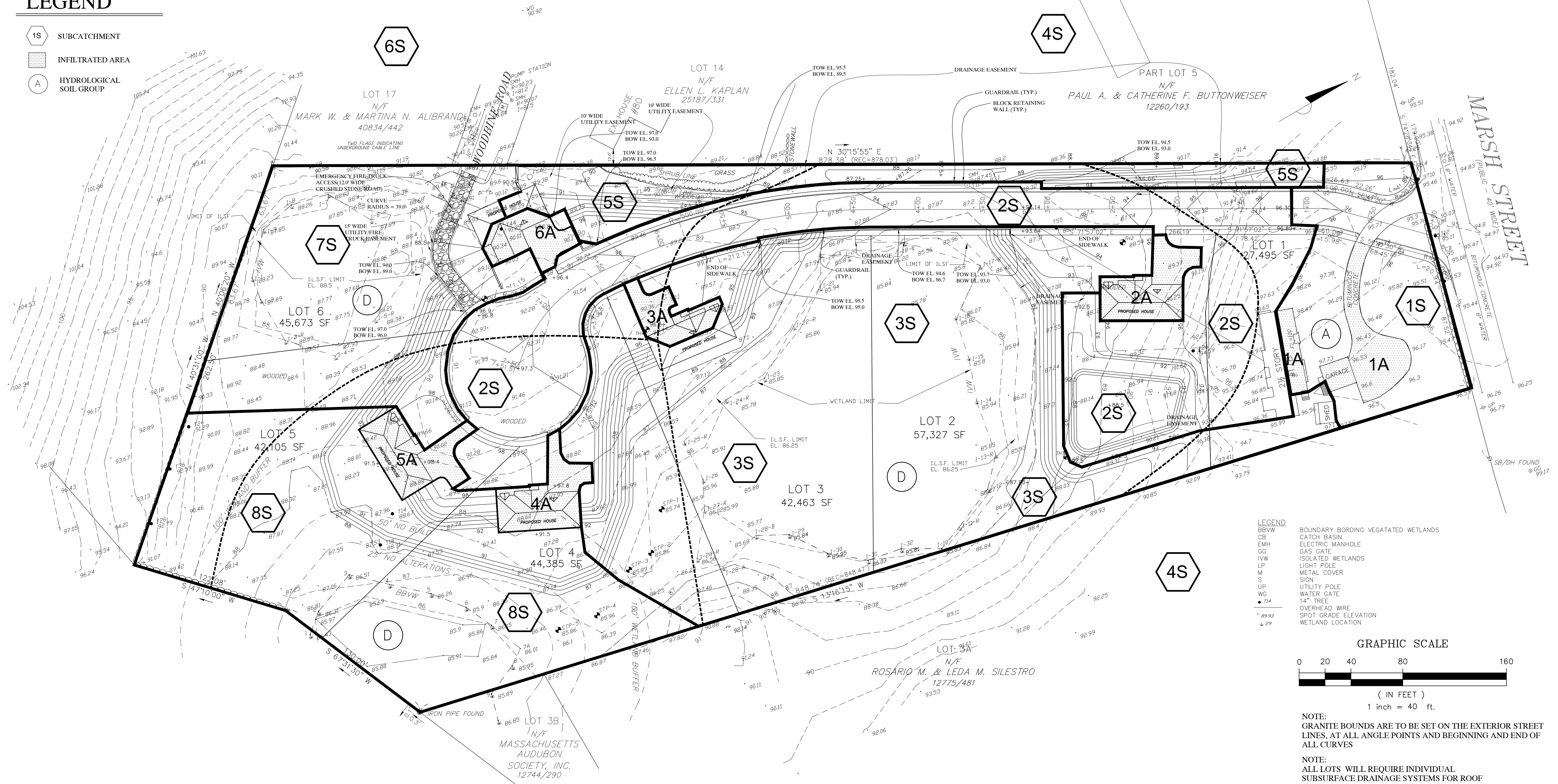
ON-SITE AREAS

- | | |
|--|---------------------------------------|
| 1S SITE TO MARSH STREET AREA
17,206 SF | 1A LOT 1 INFILTRATED AREA
4,152 SF |
| 2S ROADWAY AREA
55,718 SF | 2A LOT 2 INFILTRATED AREA
3,080 SF |
| 3S SITE TO DEPRESSION AREA
102,804 SF | 3A LOT 3 INFILTRATED AREA
1,948 SF |
| 5S SITE TO CULVERT AREA
15,107 SF | 4A LOT 4 INFILTRATED AREA
3,004 SF |
| 7S SITE TO WOODBINE DEPRESSION AREA
38,389 SF | 5A LOT 5 INFILTRATED AREA
3,100 SF |
| 8S SITE TO WETLANDS AREA
52,374 SF | 6A LOT 6 INFILTRATED AREA
2,119 SF |

TOTAL = 299,001 SF

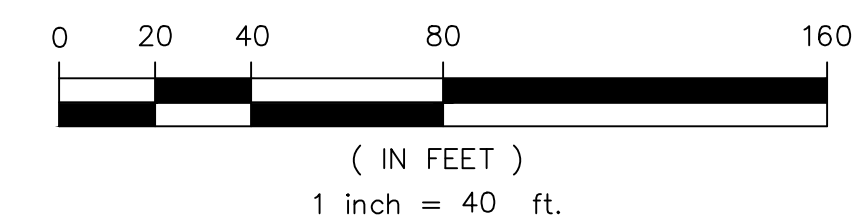
LEGEND

- 1S SUBCATCHMENT
- INFILTRATED AREA
- A HYDROLOGICAL SOIL GROUP



- LEGEND
- BBVW BOUNDARY BORDING VEGETATED WETLANDS
 - CB CATCH BASIN
 - EMH ELECTRIC MANHOLE
 - GG GAS GATE
 - IWV ISOLATED WETLANDS
 - LP LIGHT POLE
 - M METAL COVER
 - S SIGN
 - UP UTILITY POLE
 - WG WATER GATE
 - T 14" TREE
 - OVERHEAD WIRE
 - SPOT GRADE ELEVATION
 - WETLAND LOCATION

GRAPHIC SCALE



NOTE:
GRANITE BOUNDS ARE TO BE SET ON THE EXTERIOR STREET LINES, AT ALL ANGLE POINTS AND BEGINNING AND END OF ALL CURVES

NOTE:
ALL LOTS WILL REQUIRE INDIVIDUAL SUBSURFACE DRAINAGE SYSTEMS FOR ROOF AND DRIVEWAY RUNOFF.

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PROPOSED DRAINAGE
DELINEATION PLAN

SLEEPY HOLLOW ROAD
178 MARSH STREET
BELMONT, MASSACHUSETTS

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