

WAIVERS REQUESTED:

- SECTION 5.01.A.2 – TO WAIVE THE REQUIREMENT FOR CONSTRUCTION OF BARROS LANE BETWEEN STATIONS 0+0 TO 2+0.
- SECTION 5.03.D – TO WAIVE THE REQUIREMENT THAT NO DEAD END STREET EXTEND BEYOND 800' (1,542').
- SECTION 5.04.B. – TO WAIVE THE REQUIREMENT FOR SIDEWALKS ON BOTH SIDES OF THE ROAD.
- SECTION 5.06.D.7 – TO WAIVE THE REQUIREMENT FOR A DRAINAGE BASIN TO NOT BE LOCATED IN A FRONT YARD.

OPEN SPACE RESIDENTIAL DEVELOPMENT  
PLAN OF LAND

River Ridge  
FOXBOROUGH, MA

JANUARY 8, 2018 ——— SCALE: AS NOTED

BAY COLONY GROUP, Inc.  
PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS  
FOUR SCHOOL STREET, P.O. BOX 9136  
FOXBOROUGH, MA 02035  
(508) 543-3939

OWNER: TH BELCHER FOX LLC  
195 Whiting Street, Suite 2B  
Hingham, MA 02043

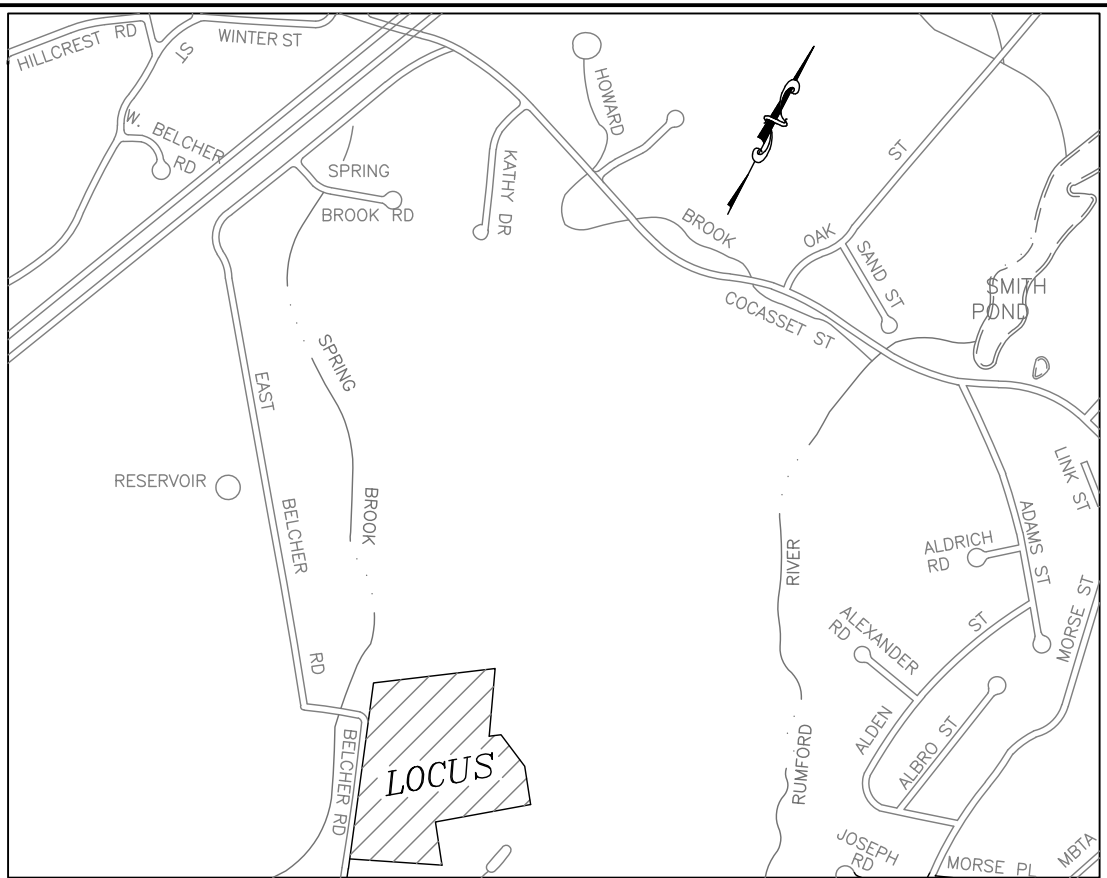
ASSESSORS REF: MAP 123, PARCELS 003, 007-001, AND 008  
MAP 136, PARCEL 001

ZONING: RESIDENTIAL AGRICULTURAL R-40  
(partially within a Primary Resource Area)

LENGTH OF ROADWAY: 1,542'  
SOUZA AVENUE - 658'  
BARROS LANE - 884'

NUMBER OF LOTS: 19

TOTAL AREA = 25.7± acres  
OPEN SPACE = 12.6± acres (49%)



LOCUS 1"=1,000'

PROJECT:

River Ridge  
Belcher Road

Foxborough  
Massachusetts

OWNER

TH BELCHER FOX, LLC  
195 Whiting Street  
Hingham, MA 02043



Bay Colony Group, Inc.  
Professional Civil Engineers &  
Professional Land Surveyors

FOUR SCHOOL STREET  
P.O. BOX 9136  
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508-543-3939

NOTICE TO CONTRACTOR:

- ALL CONTRACTORS SHALL CONTACT THE PLANNING BOARD 508.543.125 PRIOR TO THE INITIATION OF ANY CONSTRUCTION.
- A STREET OPENING PERMIT MUST BE OBTAINED FROM THE FOXBOROUGH HIGHWAY DEPARTMENT PRIOR TO ANY WORK OCCURRING IN OR ON ANY STREET (AFTER ACCEPTED OR NOT) AFTER THE TOP COURSE OF PAVEMENT IS INSTALLED.

DATE APPROVED: \_\_\_\_\_  
DATE ENDORSED: \_\_\_\_\_  
FOXBOROUGH PLANNING BOARD

I HEREBY CERTIFY THAT 20 DAYS HAVE ELAPSED SINCE PLANNING BOARD APPROVAL AND THAT NO APPEAL HAS BEEN FILED IN THIS OFFICE.

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

STAMP



DRAWING TITLE

Cover Sheet

SHEET NO.	DESCRIPTION	LAST REVISED
SHEET CV	COVER SHEET	1-8-2019
SHEET 1.0	LEGEND & GENERAL NOTES	1-8-2019
SHEET 1.1	INDEX PLAN	1-8-2019
SHEET 2.1	PROPERTY LINE PLAN	1-8-2019
SHEET 2.2	PROPERTY LINE PLAN	1-8-2019
SHEET 2.3	PROPERTY LINE PLAN	1-8-2019
SHEET 2.4	PROPERTY LINE PLAN	1-8-2019
SHEET 3.1	TOPOGRAPHIC PLAN	1-8-2019
SHEET 3.2	TOPOGRAPHIC PLAN	1-8-2019
SHEET 3.3	TOPOGRAPHIC PLAN	1-8-2019
SHEET 3.4	TOPOGRAPHIC PLAN	1-8-2019
SHEET 4.1	PROFILE OF SOUZA AVENUE	1-8-2019
SHEET 4.2	PROFILE OF BARROS LANE	1-8-2019
SHEET 5.1	DETAILS	1-8-2019
SHEET 5.2	DETAILS	1-8-2019
SHEET 5.3	DETAILS	1-8-2019
SHEET 5.4	DETAILS	1-8-2019
SHEET 5.5	DETAILS	1-8-2019
SHEET 6.1	SWPPP	1-8-2019
SHEET 7.1	DEFINITIVE PLAN APPROVAL LETTER	NOT INCLUDED

THE LAST REVISED DATE FOR PLANS IN THIS SET IS: 1-8-2019

JANUARY 8, 2019

SHEET NUMBER


06-0150E

CV

GENERAL NOTES


























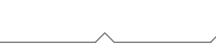

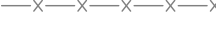
- THIS PLAN IS SUBJECT TO AN APPROVAL LETTER ISSUED BY THE FOXBOROUGH PLANNING BOARD DATED xxxxx AND AN ORDER OF CONDITIONS ISSUED BY THE FOXBOROUGH CONSERVATION COMMISSION (FILE No. SE 157-0576). SAID APPROVALS AND ORDERS SHALL BE CONSIDERED A PART OF THIS PLAN.
- TOPOGRAPHICAL INFORMATION OBTAINED FROM A LIMITED ON-THE-GROUND SURVEY BY THIS OFFICE CONDUCTED NOVEMBER 2017. REMAINING INFORMATION IS FROM A TOPOGRAPHIC SURVEY SUPPLIED TO THIS OFFICE BY APPLICANT AND IS NOT WARRANTED BY BAY COLONY GROUP, INC..
- CONTRACTOR SHALL COMPLY WITH CONSTRUCTION STANDARDS OF THE TOWN OF FOXBOROUGH RULES AND REGULATIONS FOR THE SUBDIVISION OF LAND UNLESS EXPLICITLY WAIVED. SAID REGULATIONS REFERENCE THE MASSDOT CONSTRUCTION STANDARDS.
- UNDERGROUND UTILITIES ARE SHOWN HEREON AS COMPILED FROM RECORD PLANS AND VISIBLE UTILITY STRUCTURES. BAY COLONY GROUP DOES NOTE WARRANT THE ACTUAL DEPTH AND LOCATIONS OF ANY UTILITIES SHOWN HEREON. CONTACT DIGSAFE AT 1-800-322-4844 AT LEAST 72 HOURS, SATURDAYS, SUNDAYS AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE DIGSAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
- WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER IMMEDIATELY.
- TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE RESPECTIVE COMPANIES.
- AREAS OUTSIDE THE LIMITS OF THE PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITIONS AT THE CONTRACTOR'S EXPENSE.
- STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES ETC.. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK.
- ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
- CONTRACTOR SHALL NOT STORE ANY EQUIPMENT, MATERIALS, SUPPLIES ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
- OPENINGS FOR PIPE IN PRECAST CONCRETE STRUCTURES SHALL BE CAST IN THE REQUIRED LOCATIONS DURING MANHOLE MANUFACTURE. FIELD CUT OPENINGS WILL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL ENSURE THAT ACCESS TO THE EXISTING HOME AT #108 BELCHER ROAD SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL PROTECT EXISTING WATER SERVICE TO HOME AND SHALL CONNECT IT TO THE NEW 8" MAIN IN THS SUBDIVISION AS PART OF THE WORK. ALL WORK ON THE WATER MAINS IN BELCHER ROAD SHALL BE SUBJECT TO THE RULES AND REGULATIONS OF THE TOWN OF MANSFIELD WATER DEPARTMENT. COORDINATE ALL WORK WITH THAT DEPARTMENT AT 508-261-7376.
- WORK ON WATER MAINS AND SERVICES ON THE NEW 8" MAIN SHALL BE SUBJECT TO THE RULES AND REGULATIONS OF THE FOXBOROUGH WATER DEPARTMENT. COORDINATE ALL WORK WITH THAT DEPARTMENT AT 508-543-1209.
- IN PAVED AND GRAVEL AREAS THE TOP OF THE STRUCTURE COVERS SHALL BE SET FLUSH WITH THE PAVED SURFACE. IN CROSS-COUNTRY AREAS THE TOP OF THE COVER SHALL EXTEND 6 INCHES ABOVE FINISHED GRADE, OR AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER.
- THE TERM "PROPOSED" (PROP or PR-) SHALL BE UNDERSTOOD TO MEAN WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED ON THE PLAN AS R&R (REMOVE AND RESET).

PAVEMENT MARKINGS
























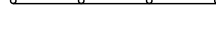
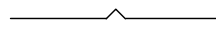
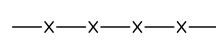
SWL	SWL – SOLID WHITE LINE – 6" STATE HIGHWAY, 4" LOCAL STREETS
SYL	SYL – SOLID YELLOW LINE – 6" STATE HIGHWAY, 4" LOCAL STREETS
DWL	DWL – DOTTED WHITE LINE – 6" (2' STRIPE w/4' GAP) STATE HIGHWAY DOTTED WHITE LINE – 4" (2' STRIPE w/4' GAP) LOCAL STREETS
WLDL	WHITE LANE DELINEATION LINE – 6" (3' STRIPE w/9' GAP) STATE HIGHWAY WHITE LANE DELINEATION LINE – 4" (3' STRIPE w/9' GAP) LOCAL STREETS
DDYL	DOUBLE DOTTED YELLOW LINE – 6" (2' STRIPE w/4' GAP) STATE HIGHWAY DOUBLE DOTTED YELLOW LINE – 4" (2' STRIPE w/4' GAP) LOCAL STREETS
BWLL	BROKEN WHITE LANE LINE – 6" (10' STRIPE w/30' GAP) STATE HIGHWAY BROKEN WHITE LANE LINE – 4" (10' STRIPE w/30' GAP) LOCAL STREETS
SWLL	SOLID WHITE LANE LINE – 6" STATE HIGHWAY, 4" LOCAL STREETS
SWEL	SOLID WHITE EDGE LINE – 6" STATE HIGHWAY, 4" LOCAL STREETS
SWG	SOLID WHITE GORE LINE – 12"
SYEL	SOLID YELLOW EDGE LINE – 6" STATE HIGHWAY, 4" LOCAL STREETS
SYGL	SOLID YELLOW GORE LINE – 12"
DYL	DOUBLE YELLOW LINE – 2-6" LINES STATE HIGHWAY DOUBLE YELLOW LINE – 2-4" LINES LOCAL STREETS
	PAVEMENT ARROW AND LEGEND

SYMBOLS & LEGEND

EXISTING

n.t.s.	– NOT TO SCALE
T.B.M.	– TEMPORARY BENCH MARK
	– BOUND (TYPE NOTED)
	– STAKE & STONE
DH 	– DRILL HOLE
IP 	– IRON PIPE/PIN
	– MASS HIGHWAY BOUND
	– STAKE & NAIL
(fd)	– FOUND
(set)	– SET IN PLACE
	– UTILITY POLE
UPLP	– UTILITY POLE/LIGHT POLE
UP	– UTILITY POLE
	– WELL
n/f	– NOW OR FORMERLY
	– TREE (SIZE NOTED)
(rec)	– RECORD
	– DRAIN MANHOLE
	– TELEPHONE MANHOLE
	– ELECTRIC MANHOLE
	– SEWER MANHOLE
	– CATCH BASIN
WG 	– WATER GATE
WS 	– WATER SERVICE
GG 	– GAS GATE
	– EXISTING HYDRANT
SGC	– SLOPED GRANITE CURBING
VGC	– VERTICAL GRANITE CURBING
PVC	– POLYVINYL CHLORIDE PIPE
CMP	– CORRUGATED METAL PIPE
VCP	– VITREOUS CLAY PIPE
CLF	– CHAIN LINK FENCE
OHW	– OVERHEAD WIRE
SIGN 	– SIGN (SIZE & TYPE NOTED)
	– TEST PIT
— D —	– DRAIN PIPE (SIZE & TYPE NOTED)
— S —	– SEWER PIPE (SIZE & TYPE NOTED)
— E —	– ELECTRIC DUCT (SIZE & TYPE NOTED)
— G —	– GAS MAIN (SIZE & TYPE NOTED)
— W —	– WATER MAIN (SIZE & TYPE NOTED)
— T —	– TELEPHONE DUCT
	– STONE WALL
	– EDGE OF TREELINE
	– GUARD-RAIL (TYPE NOTED)
	– RAILROAD TRACKS
	– RETAINING WALL (SIZE & TYPE NOTED)
	– BARBED WIRE FENCE
	– STOCKADE FENCE
	– CHAIN-LINK FENCE

PROPOSED

n.t.s.	– NOT TO SCALE
T.B.M.	– TEMPORARY BENCH MARK
	– BOUND (TYPE NOTED)
	– STAKE & STONE
DH 	– DRILL HOLE
IP 	– IRON PIPE/PIN
	– MASS HIGHWAY BOUND
	– STAKE & NAIL
(fd)	– FOUND
(set)	– SET IN PLACE
	– UTILITY POLE
UPLP	– UTILITY POLE/LIGHT POLE
UP	– UTILITY POLE
	– WELL
n/f	– NOW OR FORMERLY
	– TREE (SIZE NOTED)
(rec)	– RECORD
	– DRAIN MANHOLE
	– TELEPHONE MANHOLE
	– ELECTRIC MANHOLE
	– SEWER MANHOLE
	– CATCH BASIN
WG 	– WATER GATE
WS 	– WATER SERVICE
GG 	– GAS GATE
	– PROPOSED HYDRANT
SGC	– SLOPED GRANITE CURBING
VGC	– VERTICAL GRANITE CURBING
PVC	– POLYVINYL CHLORIDE PIPE
CMP	– CORRUGATED METAL PIPE
VCP	– VITREOUS CLAY PIPE
CLF	– CHAIN LINK FENCE
OHW	– OVERHEAD WIRE
R&R	– REMOVE AND RE-USE
R&S	– REMOVE AND STACK
SIGN 	– SIGN (SIZE & TYPE NOTED)
— D —	– DRAIN PIPE (SIZE & TYPE NOTED)
— S —	– SEWER PIPE (SIZE & TYPE NOTED)
— E —	– ELECTRIC DUCT (SIZE & TYPE NOTED)
— G —	– GAS MAIN (SIZE & TYPE NOTED)
— W —	– WATER MAIN (SIZE & TYPE NOTED)
— T —	– TELEPHONE DUCT
	– STONE WALL
	– EDGE OF TREELINE
	– GUARD-RAIL (TYPE NOTED)
	– RETAINING WALL (SIZE & TYPE NOTED)
	– BARBED WIRE FENCE
	– STOCKADE FENCE
	– CHAIN-LINK FENCE

PROJECT:

River Ridge  
Belcher Road

Foxborough  
Massachusetts

OWNER:

TH BELCHER FOX, LLC  
195 Whiting Street  
Hingham, MA 02043



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NOTICE TO CONTRACTOR:

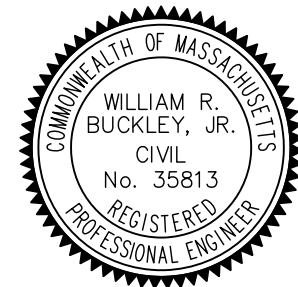
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DATE APPROVED: \_\_\_\_\_  
DATE ENDORSED: \_\_\_\_\_  
FOXBOROUGH PLANNING BOARD

I HEREBY CERTIFY THAT 20 DAYS HAVE ELAPSED SINCE PLANNING BOARD APPROVAL AND THAT NO APPEAL HAS BEEN FILED IN THIS OFFICE.

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

STAMP



DRAWING TITLE

Legend &  
General Notes

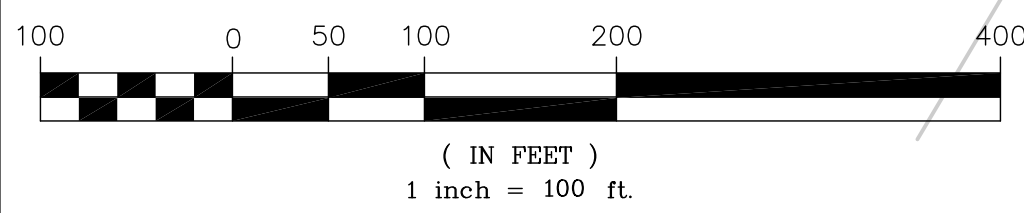
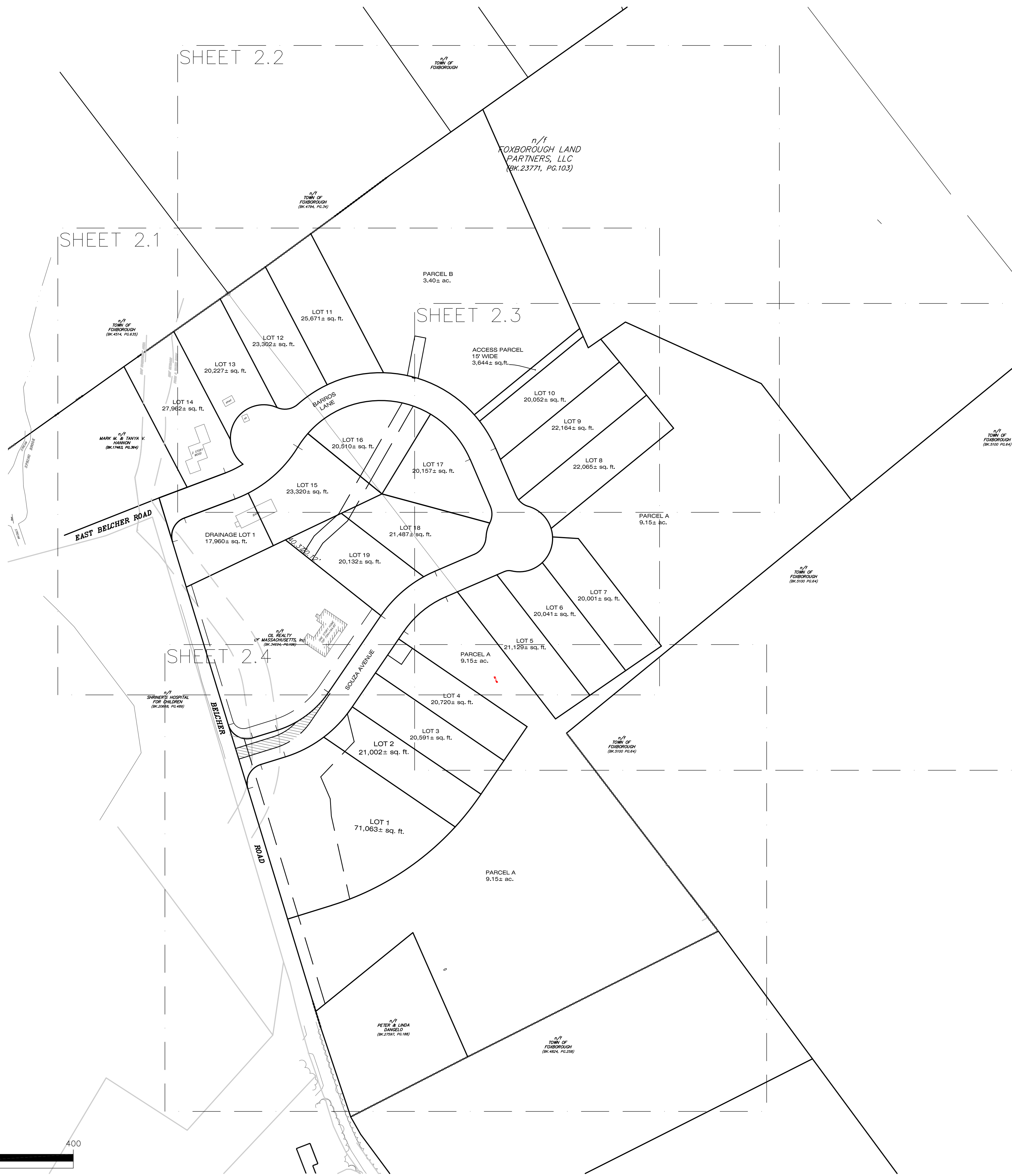
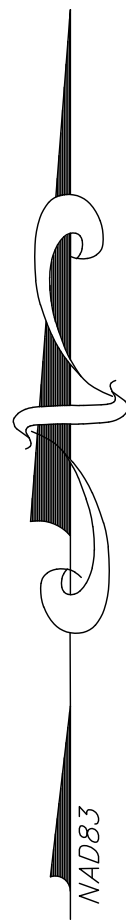
SCALE: as noted

JANUARY 8, 2019

SHEET NUMBER

06-0150E

1.0




( REGISTRY )

THE CERTIFICATIONS SHOWN HEREON ARE INTENDED TO MEET REGISTRY OF DEEDS AND/OR MUNICIPAL REQUIREMENTS, AND ARE NOT A CERTIFICATION TO TITLE OR OWNERSHIP OF PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT ASSESSORS RECORDS.  
I CERTIFY THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

DATE \_\_\_\_\_ PROFESSIONAL LAND SURVEYOR \_\_\_\_\_

PROJECT:  
**River Ridge  
Belcher Road**  
  
**Foxborough  
Massachusetts**  
  
OWNER:  
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508-543-3939

DATE APPROVED: \_\_\_\_\_  
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DATE \_\_\_\_\_ FOXBOROUGH TOWN CLERK \_\_\_\_\_

STAMP



DRAWING TITLE

Index Plan

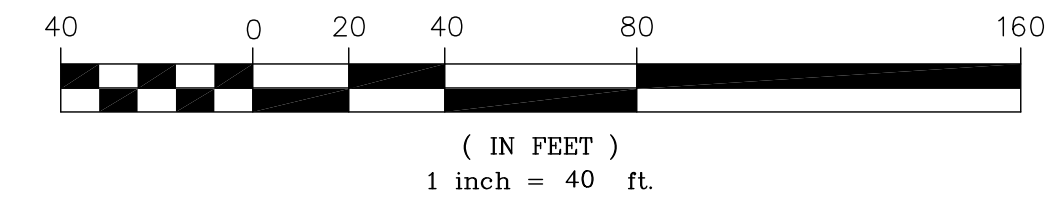
SCALE: 1" = 100'  
JANUARY 8, 2019 SHEET NUMBER  
**06-0150E 1.1**





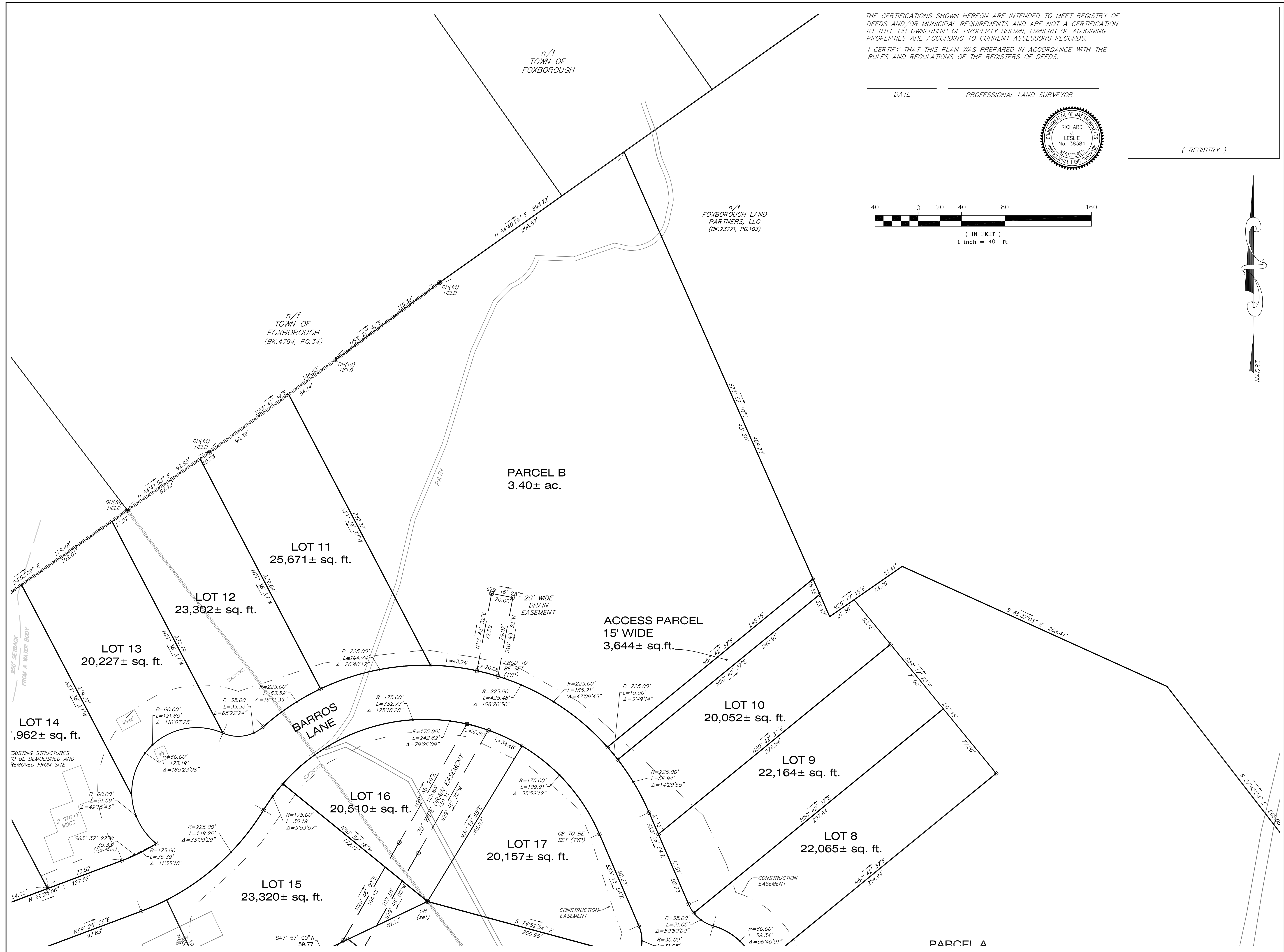
I CERTIFY THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE  
RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

PROFESSIONAL LAND SURVEYOR



NAD83

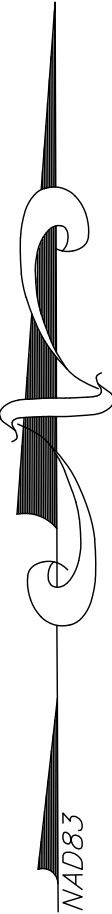
## 2.2



*River Ridge  
Belcher Road*

OWNER:

( REGISTRY )



FOUR SCHOOL STREET  
P.O. BOX 9136  
FOXBOROUGH, MA 02035  
508-543-3939

HEREBY CERTIFY THAT 20 DAYS HAVE ELAPSED SINCE PLANNING BOARD APPROVAL AND THAT NO APPEAL HAS BEEN FILED IN THIS OFFICE.

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

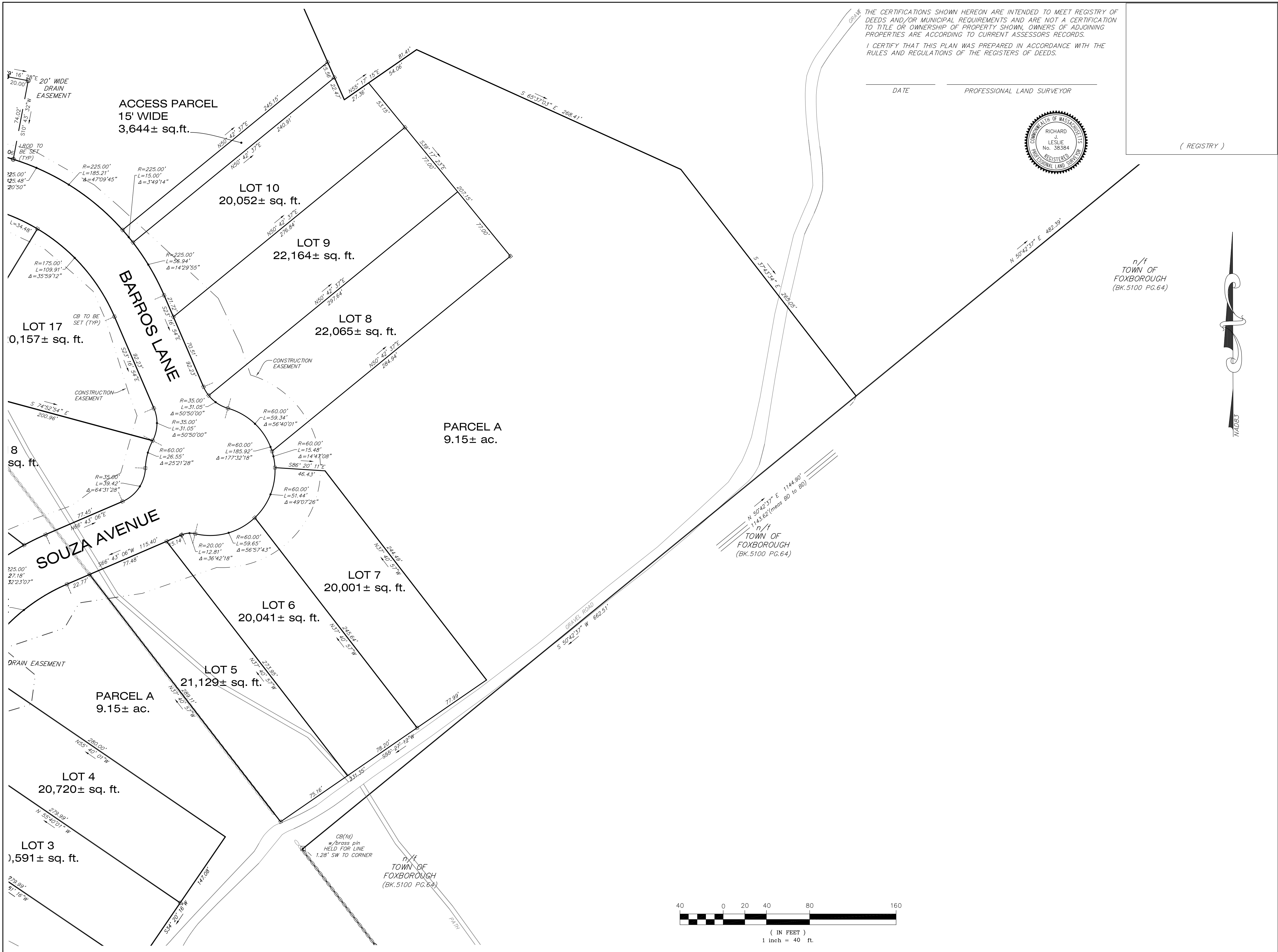
# Property Line Plan

SCALE: 1" = 40'

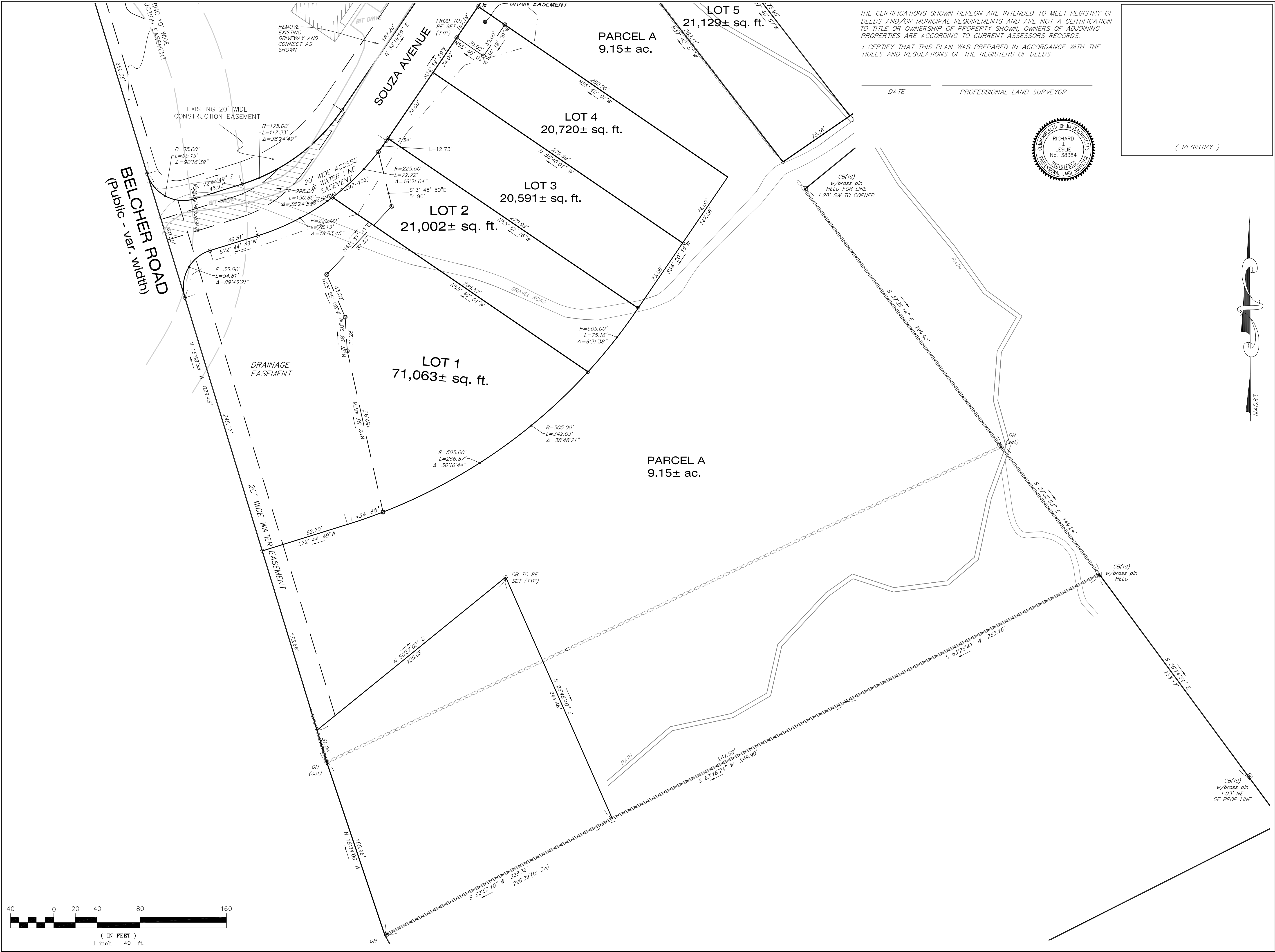
JANUARY 8, 2019 | SHEET NUMBER

06-0150E

## 2.3







PROJECT:  
**River Ridge  
Belcher Road**

**Foxborough  
Massachusetts**

OWNER:  
**TH BELCHER FOX, LLC**  
195 Whiting Street  
Hingham, MA 02043

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508-543-3939

DATE APPROVED: \_\_\_\_\_  
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APPROVAL AND THAT NO APPEAL HAS  
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DATE \_\_\_\_\_ FOXBOROUGH TOWN CLERK

DRAWING TITLE  
**Property Line  
Plan**

SCALE: 1" = 40'  
JANUARY 8, 2019 SHEET NUMBER  
**06-0150E 2.4**





PROJECT:

**River Ridge  
Belcher Road**

**Foxborough  
Massachusetts**

APPLICANT:

**TH BELCHER FOX, LLC  
195 Whiting Street  
Hingham, MA 02043**



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**NOTES:**

1. EACH HOUSE SHALL HAVE A ROOF DRAIN INFILTRATION SYSTEM THAT SHALL CAPTURE AND INFILTRATE THE FIRST 2" OF RUNOFF. SEE SHEET 5.1 FOR EXAMPLE.
2. ALL CB TO DMH CONNECTIONS SHALL BE 12" RCP UNLESS OTHERWISE NOTED.

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

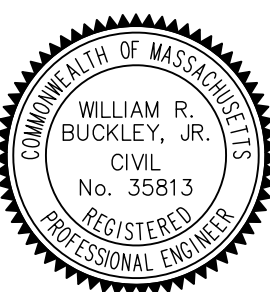
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STAMP



DRAWING TITLE

**Topographic  
Plan**

SCALE: 1" = 80'

JANUARY 8, 2019

SHEET NUMBER

06-0150E

**3.1**





PROJECT:  
**River Ridge  
Belcher Road**

Foxborough  
Massachusetts

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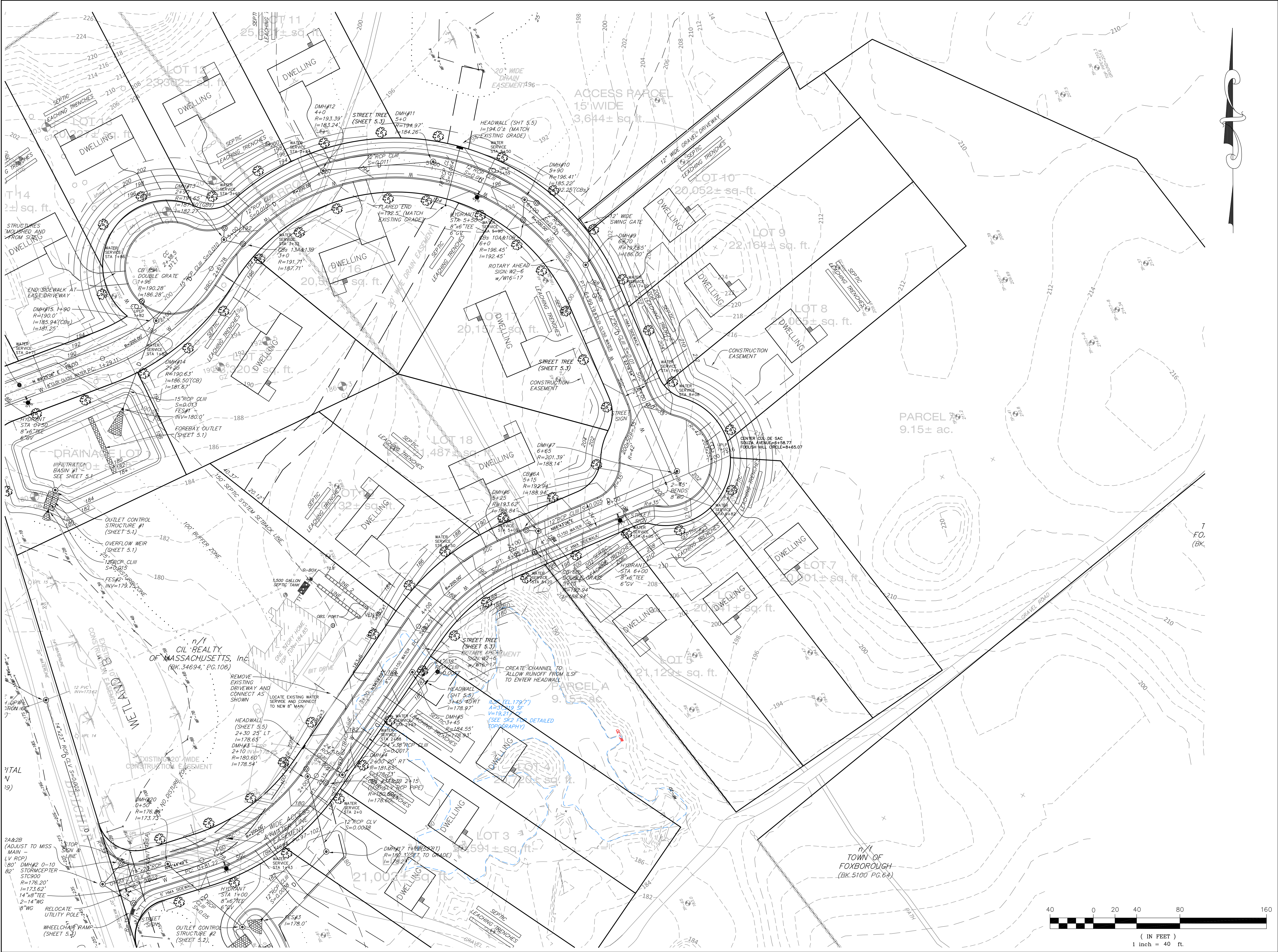
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**NOTES:**

1. EACH HOUSE SHALL HAVE A ROOF DRAIN INFILTRATION SYSTEM THAT SHALL CAPTURE AND INFILTRATE THE FIRST 2" OF RUNOFF. SEE SHEET 5.1 FOR EXAMPLE.
2. ALL CB TO DMH CONNECTIONS SHALL BE 12" RCP UNLESS OTHERWISE NOTED.





PROJECT:  
**River Ridge  
Belcher Road**

**Foxborough  
Massachusetts**

APPLICANT:  
**TH BELCHER FOX, LLC  
195 Whiting Street  
Hingham, MA 02043**



FOUR SCHOOL STREET  
P.O. BOX 9136  
FOXBOROUGH, MA 02035  
508-543-3939

- NOTICE TO CONTRACTOR:**
1. ALL CONTRACTORS SHALL CONTACT THE PLANNING BOARD 508.543.125 PRIOR TO THE INITIATION OF ANY CONSTRUCTION.
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DATE ENDORSED: \_\_\_\_\_  
FOXBOROUGH PLANNING BOARD

I HEREBY CERTIFY THAT 20 DAYS HAVE ELAPSED SINCE PLANNING BOARD APPROVAL AND THAT NO APPEAL HAS BEEN FILED IN THIS OFFICE.

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

STAMP



DRAWING TITLE

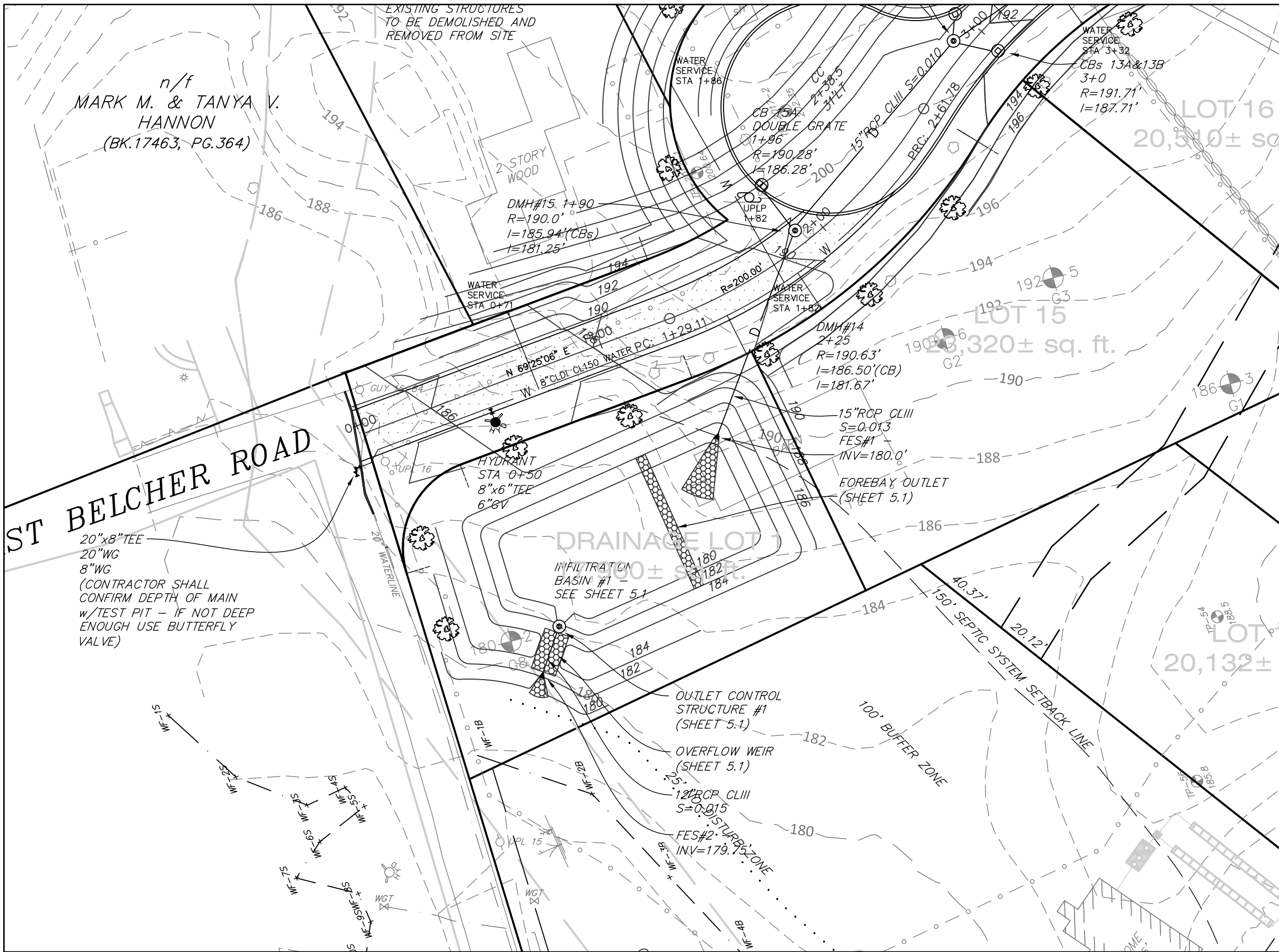
**Topographic  
Plan**

SCALE: 1" = 40'  
JANUARY 8, 2019 SHEET NUMBER  
**06-0150E 3.3**

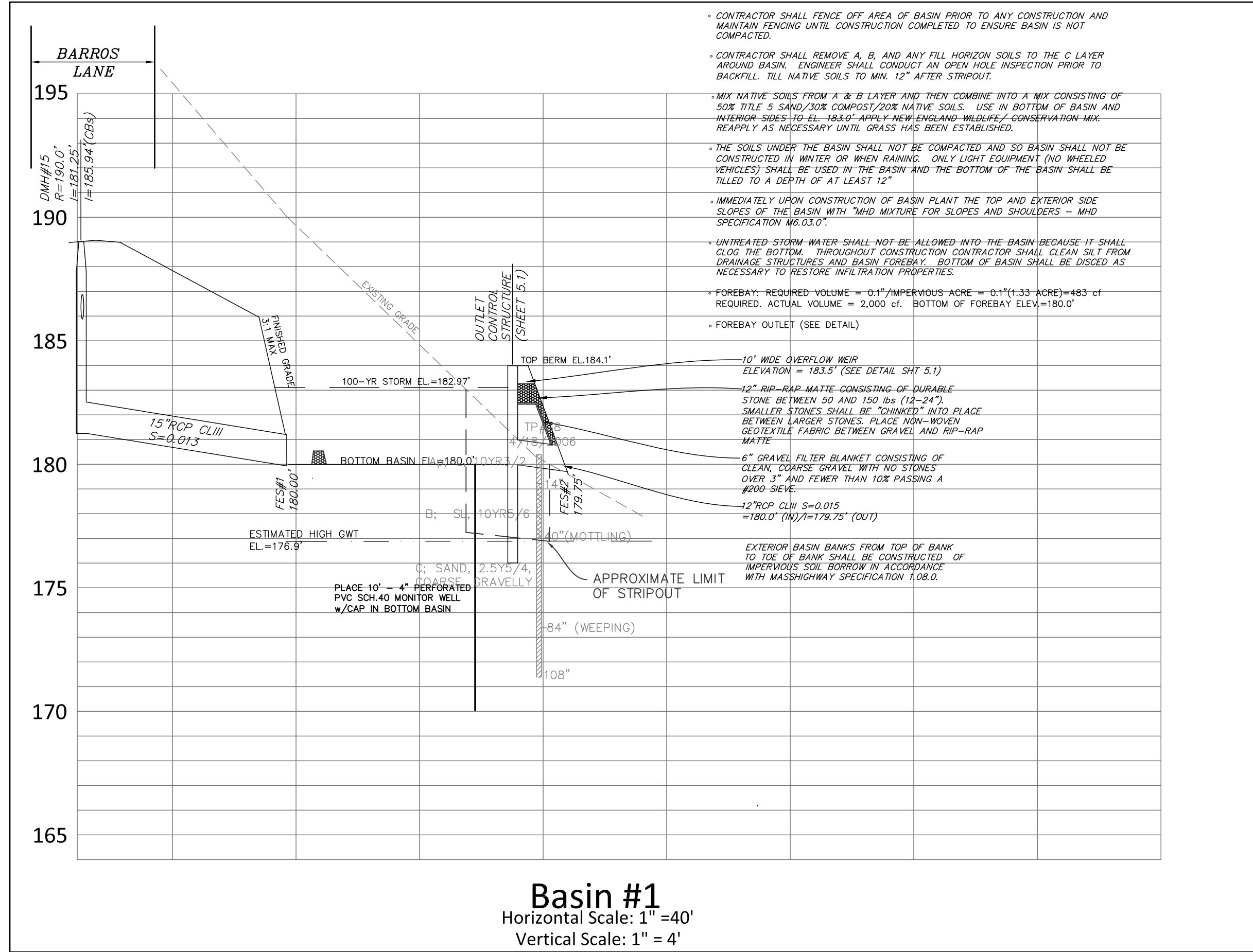




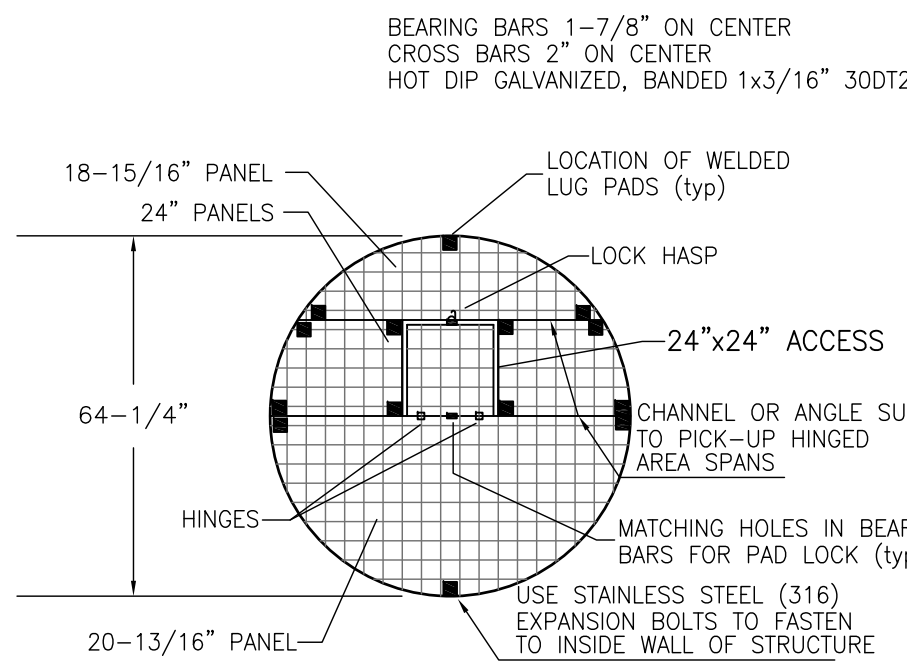




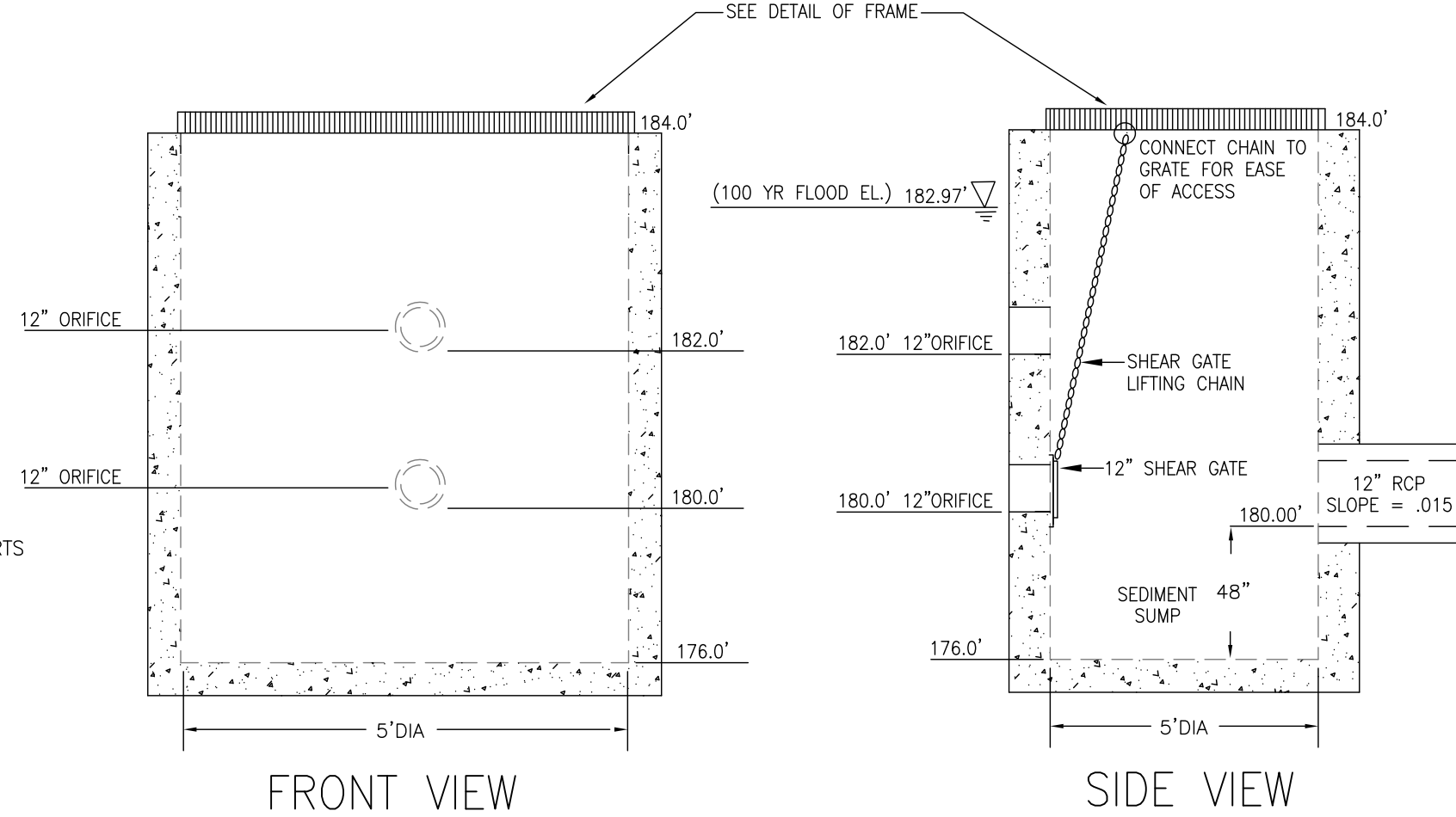
INFILTRATION BASIN #1  
1"=40'



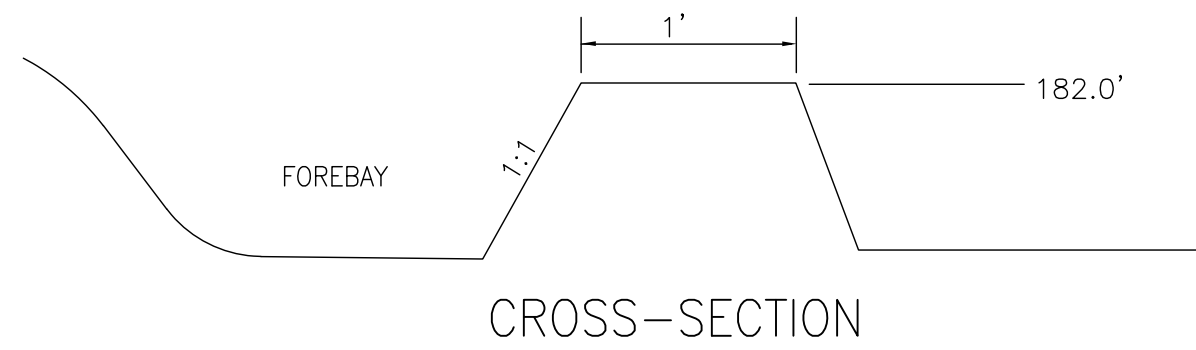
Basin #1  
Horizontal Scale: 1"=40'  
Vertical Scale: 1"=4'



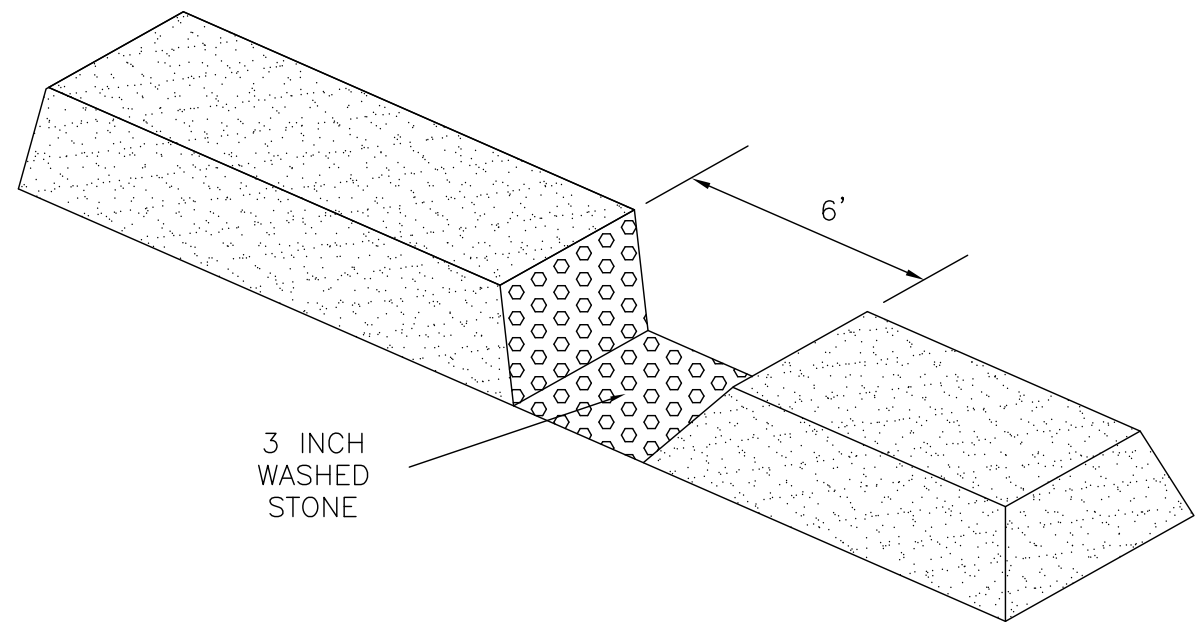
NOTE: MAY BE CONSTRUCTED BY MEL GRANT ASSOC.  
P.O. BOX 557 MEDFELD, MA 02055-0107  
PROVIDE STAMPED SHOP DRAWINGS TO ENGINEER AND TOWN.



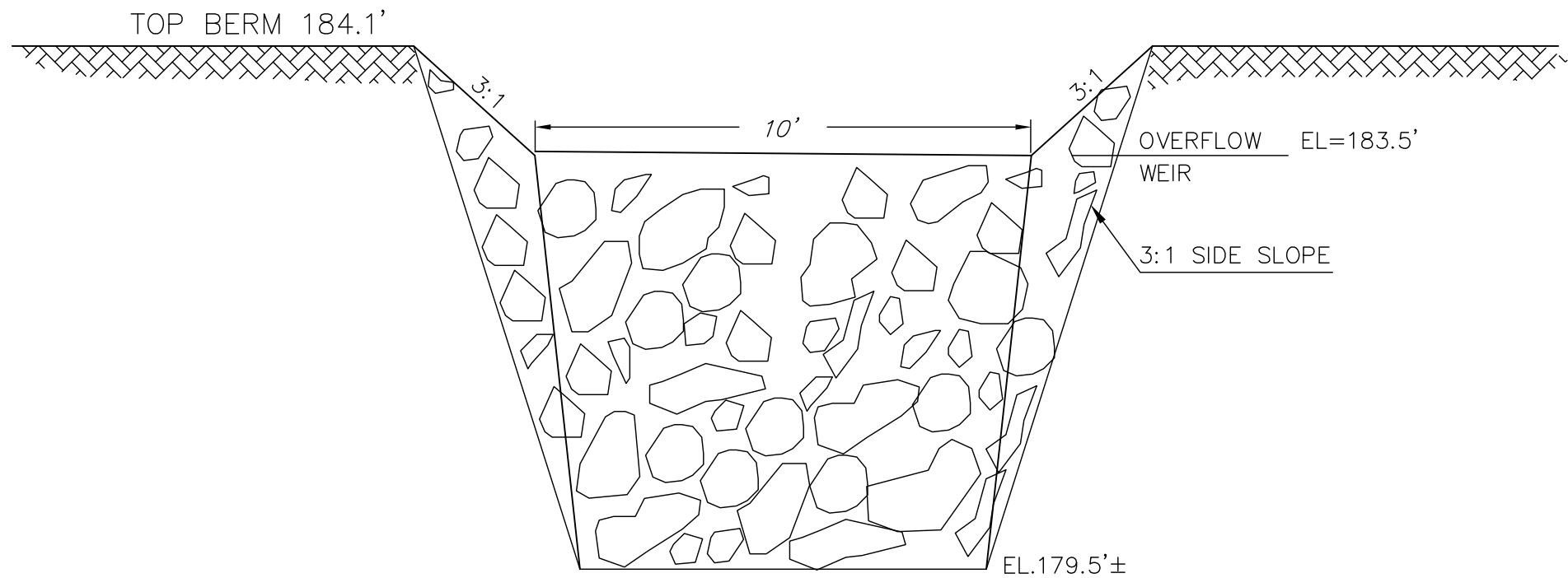
PRECAST CONCRETE OUTLET STRUCTURE - BASIN 1  
N.T.S.



CROSS-SECTION



FOREBAY OUTLET  
N.T.S.



END VIEW OF OVERFLOW WEIR  
N.T.S.

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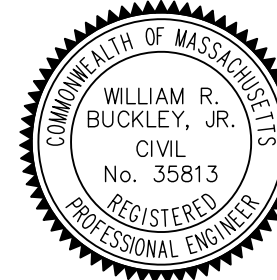
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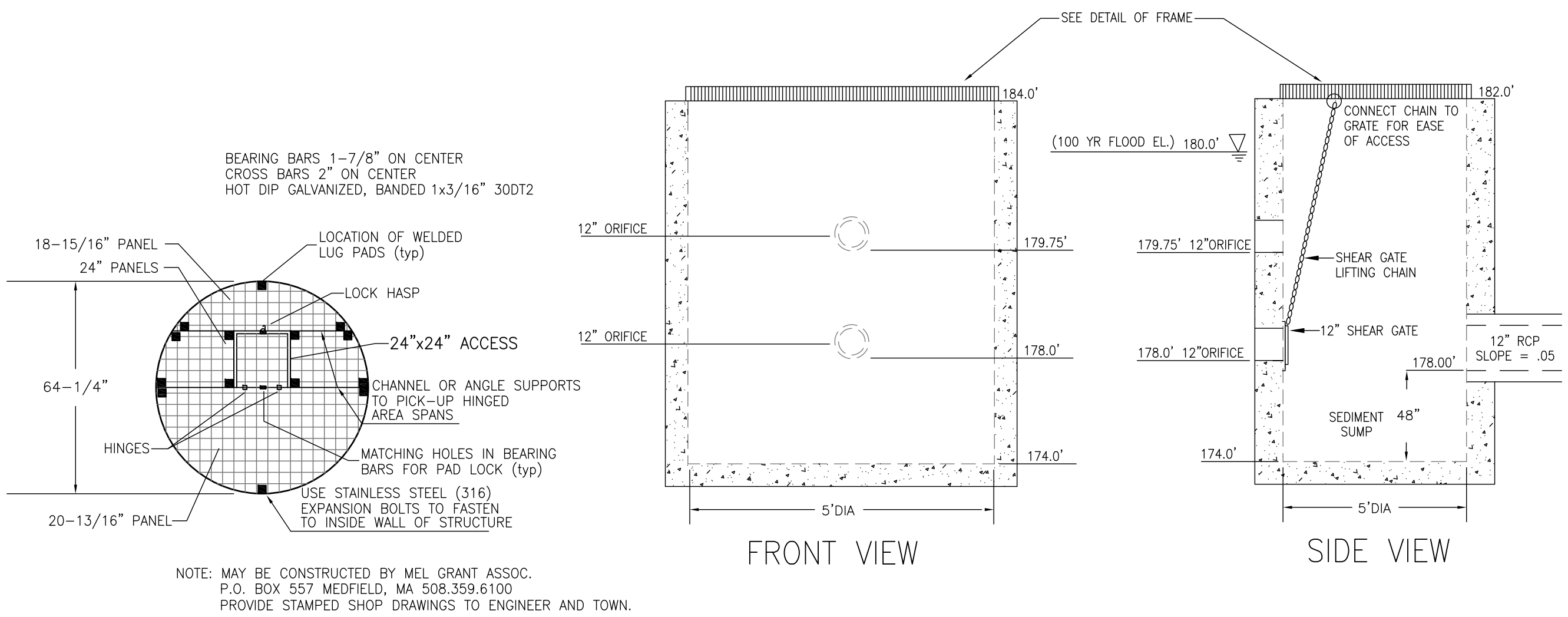
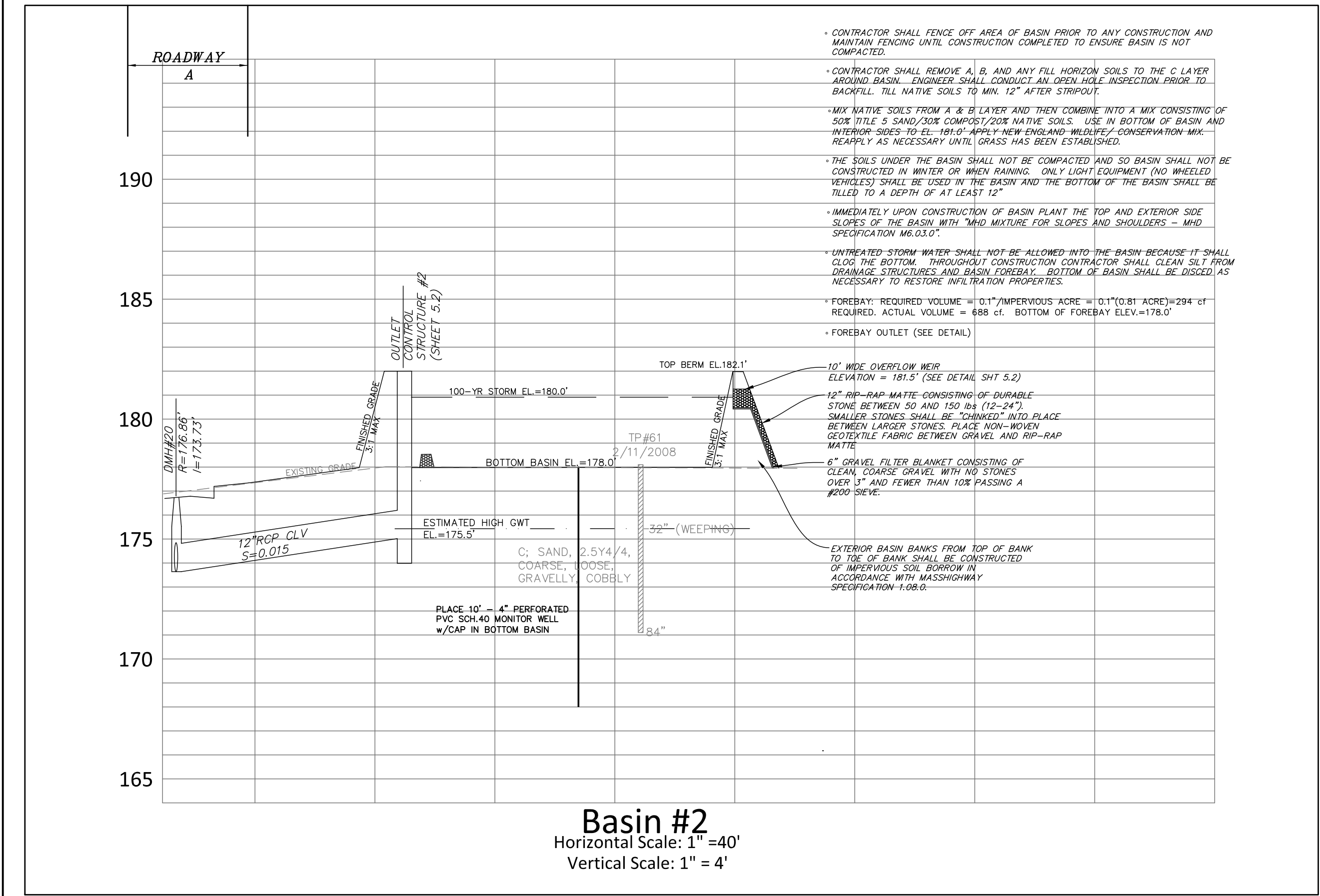
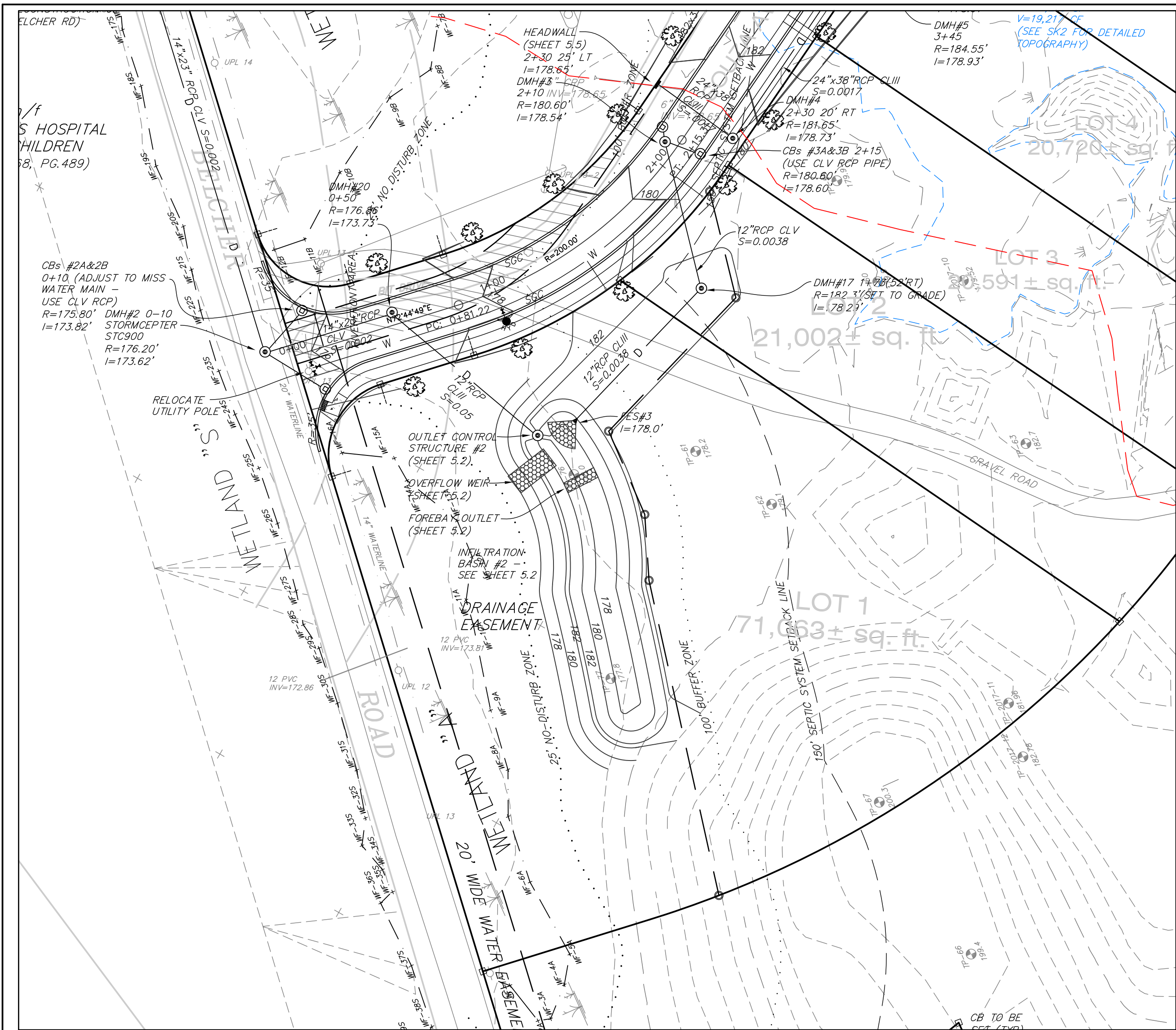
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JANUARY 8, 2019 SHEET NUMBER

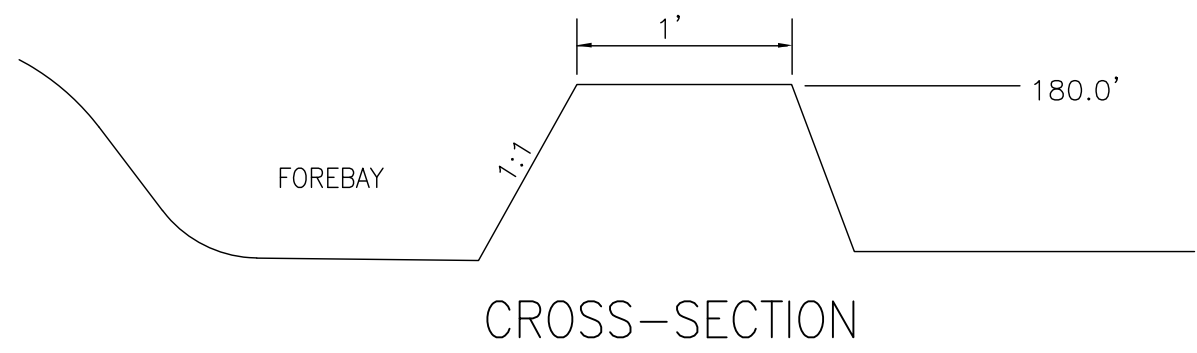
06-0150E

5.1

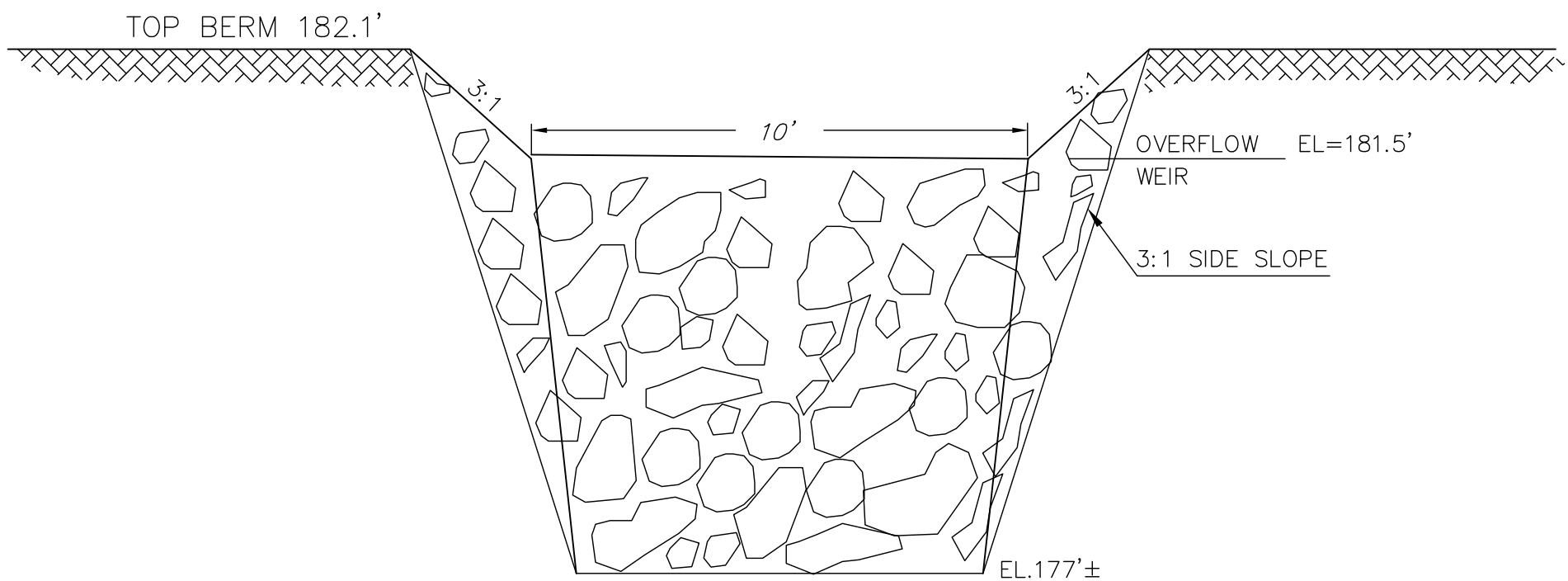




PRECAST CONCRETE OUTLET STRUCTURE – BASIN 2  
N.T.S.



FOREBAY OUTLET  
N.T.S.



END VIEW OF OVERFLOW WEIR  
N.T.S.

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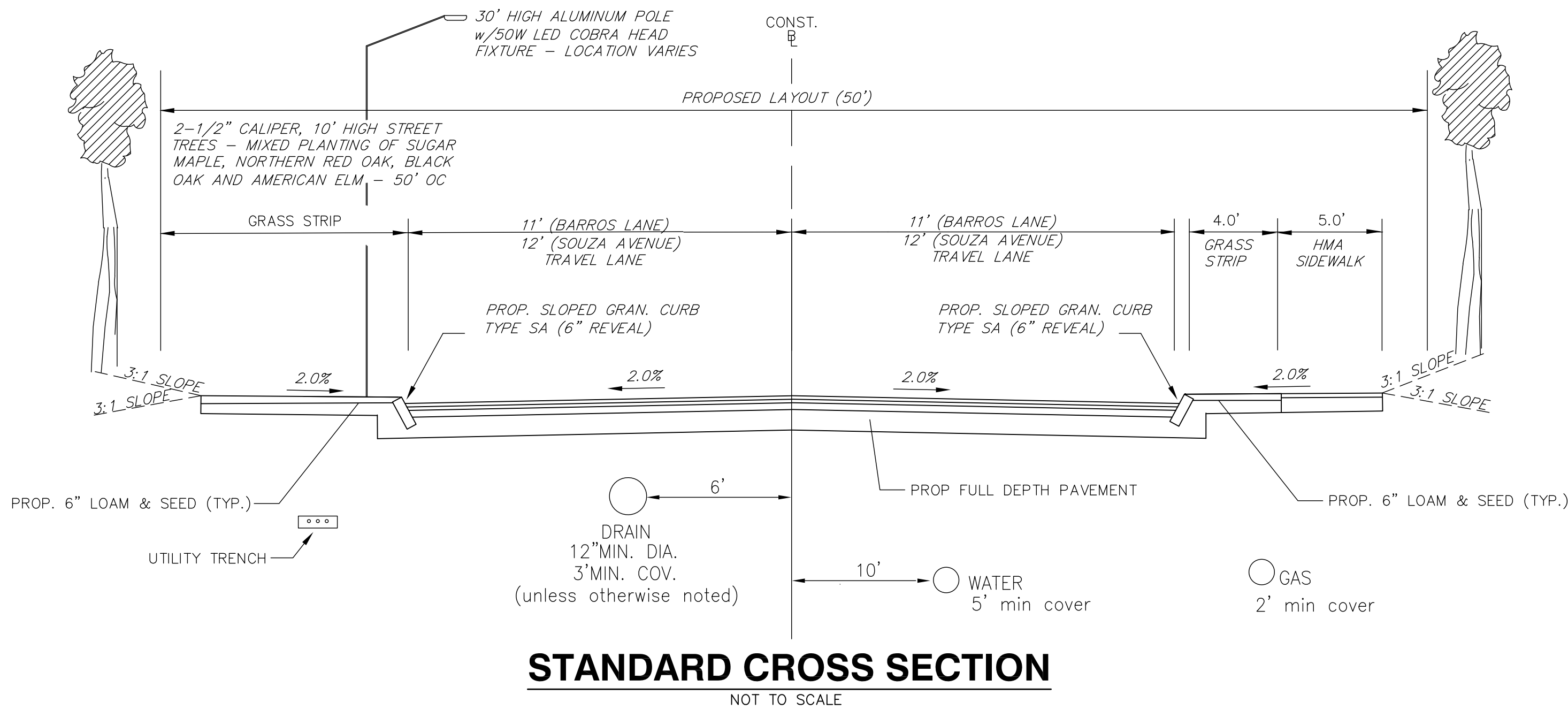
SCALE: AS NOTED

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5.2





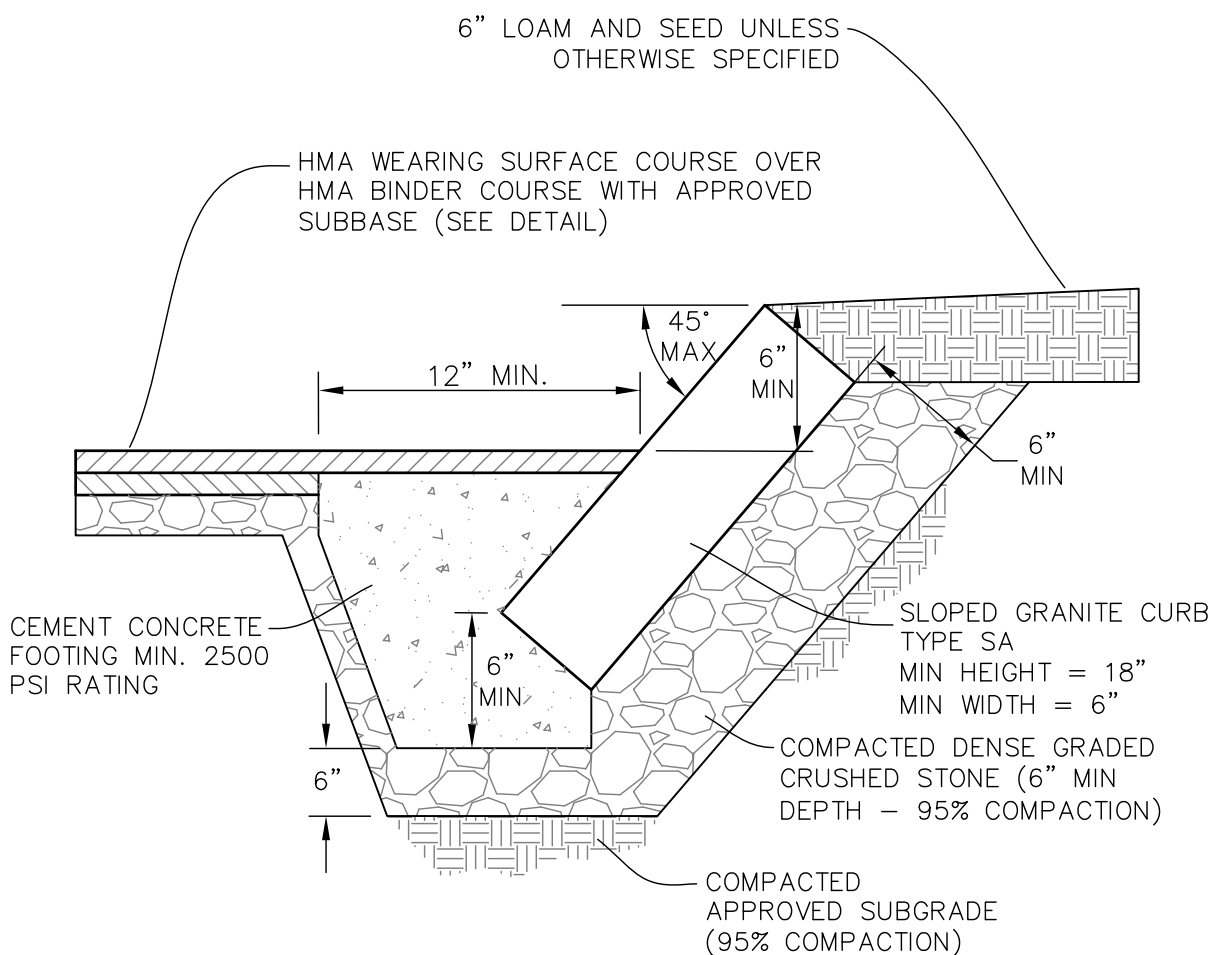
PAVEMENT NOTES

PROPOSED FULL DEPTH PAVEMENT  
SURFACE: 1-1/2" HOT MIX ASPHALT TOP COURSE MATERIAL PLACED IN ONE COURSE w/TACK COAT ON BASE.  
BASE: 2-1/2" HOT MIX ASPHALT BASE COURSE MATERIAL PLACED IN ONE COURSE  
SUBBASE: 8" GRAVEL BORROW M1.03.0 TYPE B  
4" DENSE GRADED CRUSHED STONE M2.01.7

PROPOSED HOT MIX ASPHALT SIDEWALK  
SURFACE: 3-1/2" HOT MIX ASPHALT (1-1/2" MODIFIED TOP COURSE MATERIAL OVER 2" BINDER COURSE MATERIAL)  
SUBBASE: 8" GRAVEL BORROW, M1.03.0 TYPE B

WHEELCHAIR RAMP NOTES

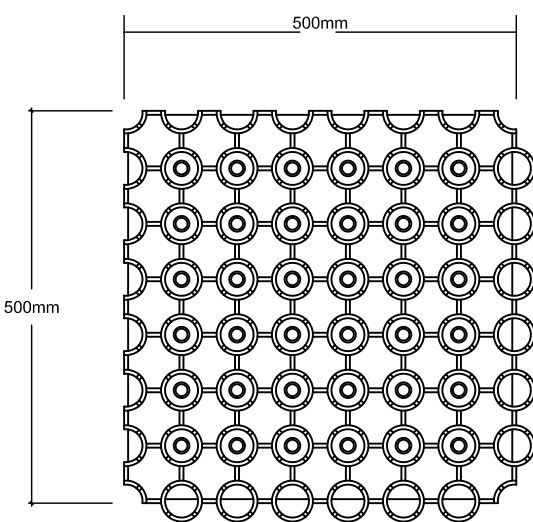
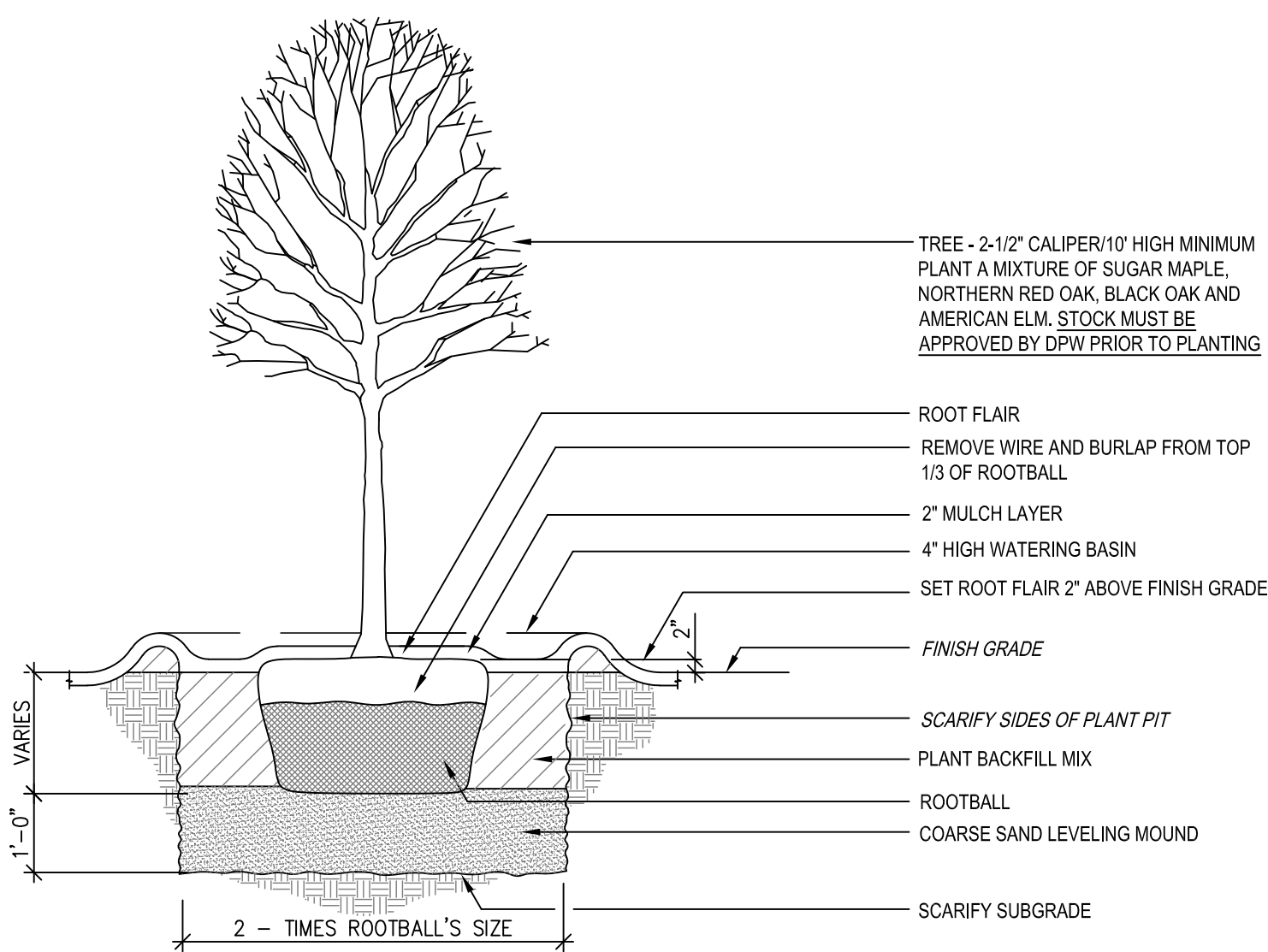
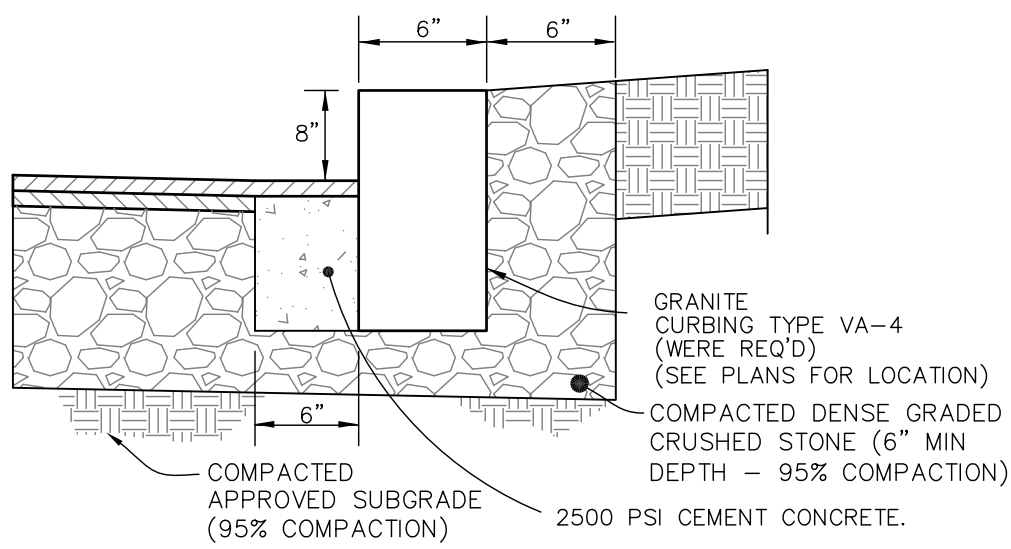
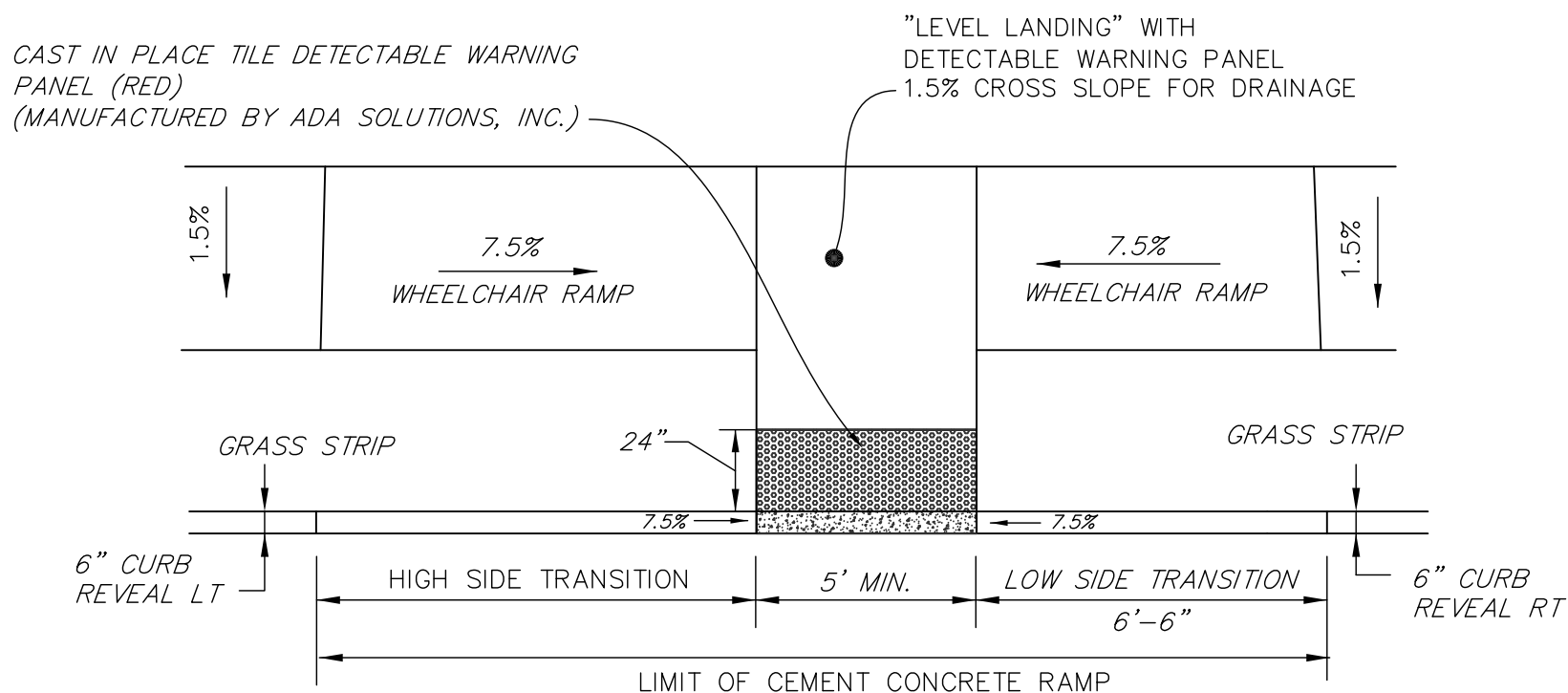
PROPOSED WHEELCHAIR RAMPS  
(SEE 2012 MASSDOT CONSTRUCTION STANDARD DWGS. 107.2.0R AND 107.6.0R)  
SURFACE: 4" CEMENT CONCRETE W/ EMBEDDED WIRE MESH  
SUBBASE: 8" GRAVEL BORROW



CURB TRANSITION LENGTHS FOR WHEELCHAIR RAMPS

ROAD PROFILE GRADE - %	*HIGH SIDE TRANSITION LENGTH
0	6'-6"
>0 => 1	7'-8"
>1 => 2	9'
>2 => 3	11'
>3 => 4	14'
>4	15' MAX

\*BASED ON A DESIGN SLOPE OF 7.5% AND A REVEAL OF 6"



Note 1: If TERRAM TX160 geogrid is omitted, the total Granular Sub-Base (GSB) layer thickness (Tx) must be increased by minimum 50%.  
Note 2: A "Type 1" sub-base may be used provided that an adequate drainage system is installed. Alternatively, a permeable/open-graded (reduced fines) sub-base layer (i.e. Type 3) may be specified, e.g. as part of Sustainable Urban Drainage Systems (SUDS).  
Note 3: If construction traffic axle loads will be greater than 60kN (approx. 6 Tonnes), minimum sub-base thickness over TERRAM TX160 geogrid shall be 150mm. Maximum sub-base particle size should match minimum sub-base thickness but not exceed 75mm diameter. For sub-base thicknesses of around 100mm, a minimum 37.5mm particle size should be adopted to allow effective installation of TERRAM TX160 geogrid.  
Note 4: Where drains are omitted and a "reduced fines" sub-base is specified for SUDS this must be covered with either TERRAM T1000) and/or a clean, suitably graded gravel blinding to avoid the bedding layer leaching into the sub-base.  
Note 5: Specific advice on CBR% strengths, ground conditions and construction over weak ground with a CBR less than 1% is available from TERRAM. CBR% = California Bearing Ratio, a measurement of subgrade soil strength.  
Note 6: Typical standard drainage detail: 100mm diameter perforated pipe drains laid at minimum gradient 1:100, bedded on gravel in trench backfilled with 'DOT Type A' drainage aggregate, trench covered &/or wrapped with a TERRAM T1000 Geotextile, pipes leading to a suitable outfall or soakaway. Drains installed down centre or one edge of areas up to 5 m wide. Wider areas may require additional lateral drains at 5-10m centres. Drainage design to be determined by the specifier based on specific site conditions.  
Note 7: Drainage for a Sustainable Urban Drainage System (SUDS) application will vary according to the site but generally omits the requirement for extensive pipe & trench drainage systems within the sub-base layer and may require an additional layer of TERRAM T1000 geotextile fabric at base of construction. The type of SUDS design (attenuation or infiltration) will depend upon the underlying ground conditions and not all sites are suitable for infiltration. Weak and low-permeability cohesive sub-grades are generally unsuitable for infiltration SUDS.  
Note 8: Rootzone bedding and paver fill must be a free-draining, structurally sound proprietary blend of sand:soil or sand:compost such as used in sports/golf construction & normally identified as a 60:40 or 70:30 ratio blend. The use of site-won materials or in-situ self-blending is NOT recommended without taking further advice.  
Note 9: Maximum advised gradient for traffic applications: 12% (1:8) 7". BodPave® 85 has specific pegging points if required for steep slope applications. Pegging is not necessary for standard access route applications.  
Note 10: BodPave® 85 complies with BS8300:2009 - "Design of buildings and their approaches to meet the needs of disabled people" - Code of Practice. (ISBN 978 0 580 57419).

Specific advice on the use of BodPave® 85 on steep slopes, drainage suitability and Sustainable Urban Drainage Systems (SUDS) applications, can be obtained from Terram.

BODPAVE 85 PAVING GRID TYPICAL PROFILE  
N.T.S.

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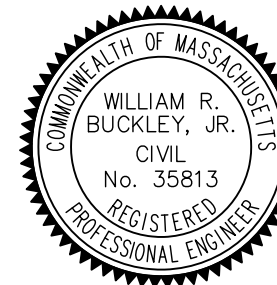
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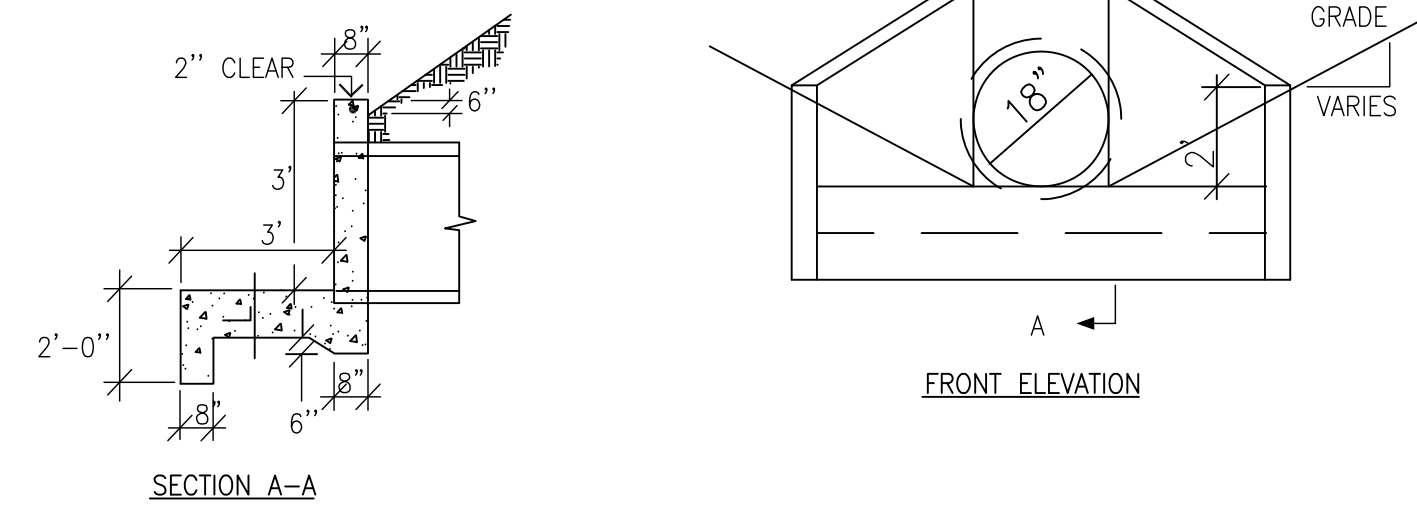
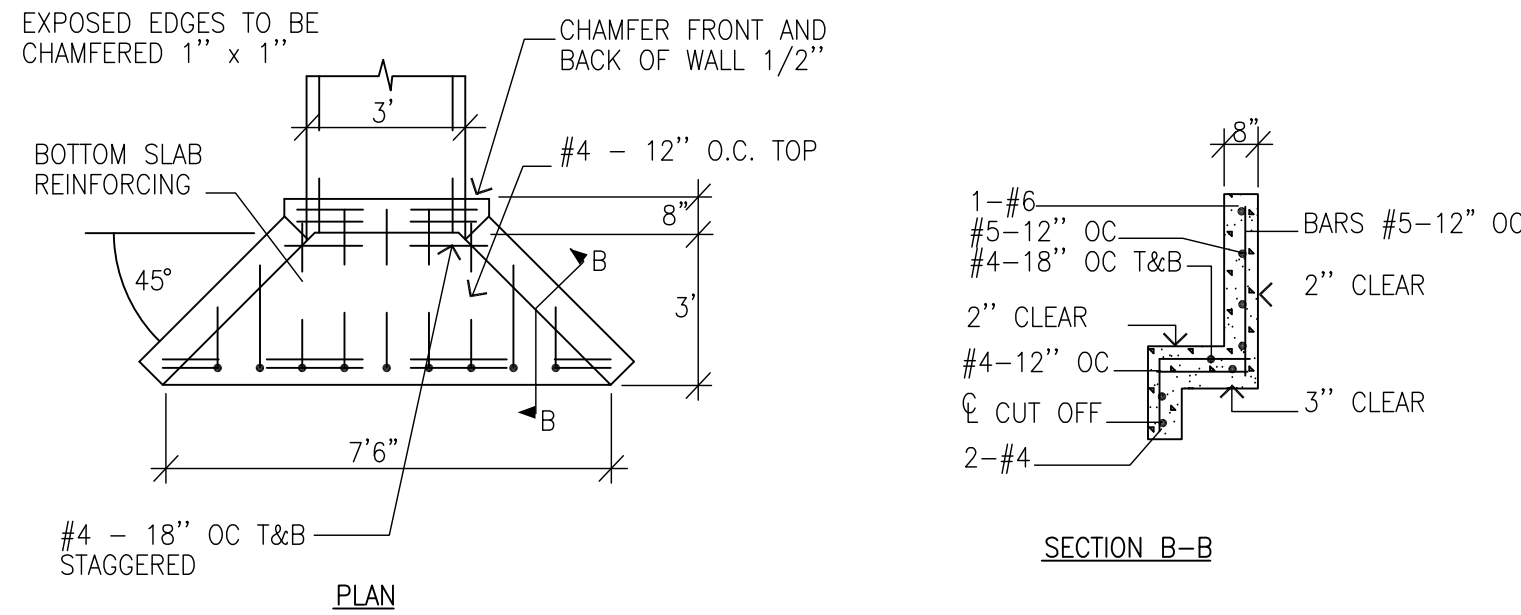
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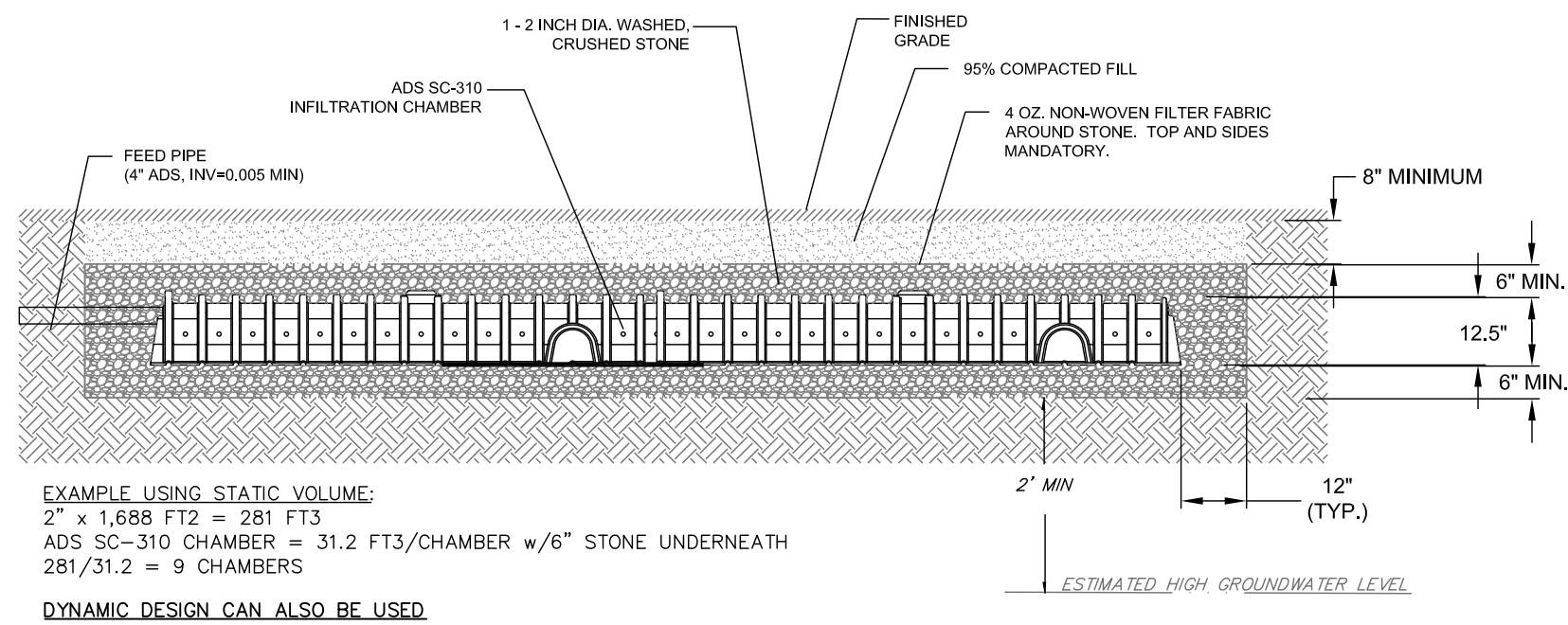
5.3



## 5.4



DRAIN HEADWALL  
N.T.S.



ROOF DRAIN INFILTRATION SYSTEM  
N.T.S.

PROJECT:

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**5.5**



## 6.1