

PERMIT SITE PLAN

PROPOSED RCS LEARNING CENTER INC.

82 EDMANDS ROAD

Framingham, Massachusetts

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

DATE SIGNED:

**RCS
LEARNING
CENTER**

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

**RCS BEHAVIORAL
& EDUCATIONAL
CONSULTING, LLC**

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
ENGINEERING ♦ SURVEYING ♦ PLANNING ♦ GIS

1071 WORCESTER ROAD
FRAMINGHAM, MA 01701
508-879-0030
www.schofieldbros.com

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ZONING

R-4 SINGLE FAMILY RESIDENCE

RECORD OWNER

82 Edmands Road: 874 Edgell Road RR:
Northside, LLC Nobscot Realty Trust
286 Union Avenue PO Box 1494
Framingham, MA 01702 Westboro MA 01581

APPLICANT

RCS BEHAVIORAL
& EDUCATIONAL
CONSULTING, LLC

DIMENSIONAL REGULATIONS

	REQUIRED	EXISTING	PROPOSED
LOT AREA:	43,560 SF	300,415 SF	300,415 SF
LOT FRONTAGE:	150 FT	357 FT	357 FT
FRONT YARD SETBACK:	30 FT	65 FT	65 FT
SIDE YARD SETBACK:	30 FT	51 FT	51 FT
LSR:	50 %	87.7 %	52.9 %
BUILDING HEIGHT:	3 STY	2 STY	3 STY
BUILDING LOT COVERAGE:	15 %	0.6 %	11.4 %

PARKING DATA

REQUIRED: (SCHOOL)	
1 PER 4 OCCUPANTS	* 395 = 99 SPACES
1 PER 2 EMPLOYEES	* 165 = 83 SPACES
TOTAL REQUIRED	= 182 SPACES
ONE-HALF TOTAL REQUIRED (FACILITY INTENDED PRIMARILY OF CHILDREN UNDER DRIVING AGE)	= 91 SPACES
PROVIDED: (SCHOOL)	
STANDARD SPACES	= 152 SPACES
HANDICAP SPACES	= 10 SPACES
TOTAL PROVIDED	= 162 SPACES



LOCUS MAP
1" = 100'

**CIVIL ENGINEERS &
LAND SURVEYORS**

SCHOFIELD BROTHERS LLC
1071 WORCESTER ROAD
FRAMINGHAM, MA 01701

ARCHITECT

CI DESIGN, INC
250 SUMMER STREET, 2nd FLOOR
BOSTON, MA 02210

TRAFFIC ENGINEER

VANASSE HANGEN BRUSTLIN INC.
101 WALNUT STREET
WATERTOWN, MA 02472

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2	BEC	5/31/16	PER TOWN COMMENTS
1	BEC	5/19/16	PER TOWN COMMENTS
NO.	APP.	DATE	DESCRIPTION

DATE: **MARCH 21, 2016**

SCALE: **AS NOTED**

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

TITLE SHEET

SHEET:

1 OF 20

PROJECT NO.:

24800

CE-01

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LEGEND

EXISTING	DESCRIPTION	PROPOSED
100	CONTOUR ELEVATION	100
C	UNDERGROUND CABLE LINE	D
D	UNDERGROUND DRAIN LINE	E
E	UNDERGROUND ELECTRIC LINE	G
FO	UNDERGROUND FIBER OPTIC LINE	S
G	UNDERGROUND GAS LINE	W
S	UNDERGROUND SEWER LINE	
T	UNDERGROUND TELEPHONE LINE	
W	UNDERGROUND WATER LINE	
OW	OVERHEAD WIRES	
SBDH	STONE BOUND DRILL HOLE	
SBND	STONE BOUND NO DRILL HOLE	
CBDH	CONCRETE BOUND DRILL HOLE	
CBND	CONCRETE BOUND NO DRILL HOLE	
DH	DRILL HOLE	
IP	IRON PIPE	
SSM	STEEL SURVEY MARKER	
(F)	FOUND	
(S)	SET	
Bk	BOOK	
Pg	PAGE	
GW	GUY WIRE	
DMH	DRAIN MANHOLE	DMH
EMH	ELECTRIC MANHOLE	
MH	MANHOLE	
SMH	SEWER MANHOLE	SMH
TMH	TELEPHONE MANHOLE	
RCB	ROUND CATCH BASIN	RCB
CB	CATCH BASIN	CB
GG	GAS GATE	GG
WG	WATER GATE	WG
	CABLE PULL BOX	
	ELECTRIC PULL BOX	
	TELEPHONE PULL BOX	
TCB	TRAFFIC CONTROL BOX	
UP	UTILITY POLE	
LP	LIGHT POLE	LP
BP	BUMPER POST	BP
HYD.	HYDRANT	HYD.
RDR	ROOF DRAIN	RDR
MW	MONITOR WELL	
	SIGN	
oVP	VENT PIPE	
WF	WETLAND FLAG	
BANK	EDGE OF BANK FLAG	
MAHW	MEAN ANNUAL HIGH WATER FLAG	
	IRRIGATION CONTROL VALVE	
	TEST PIT	
FLGT	FLOOD LIGHT	
FP	FLAG POLE	
	SPOT GRADE	+123.2
	CONCRETE	
CONC.	ASPHALT	
ASP.	BITUMINOUS	
BIT.	GRANITE	
GRAN.	ASPHALT SIDEWALK	ASW
ASW	CONCRETE SIDEWALK	CSW
CSW	BRICK SIDEWALK	BSW
BSW	CONCRETE CURB	CC
CC	ASPHALT CURB	AC
AC	SLOPED GRANITE CURB	SGC
SGC	VERTICAL GRANITE CURB	VGC
VGC	BOTTOM OF CURB ELEVATION	BC=0.0
BC=0.0	TOP OF CURB ELEVATION	TC=0.0
TC=0.0	LANDSCAPE AREAS	LS
LS	WITH	
W/	NOW OR FORMERLY	
N / F	WOOD FRAME	
W/F		

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY THE LOCATION AND RELATIVE ELEVATION OF BENCH MARKS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER.
- IN CASES WHERE LEDGE, BURIED FOUNDATIONS OR BOULDERS ARE PRESENT, SCHOFIELD BROTHERS, LLC SHALL NOT BE RESPONSIBLE FOR THE AMOUNT OF ROCK OR CONCRETE ENCOUNTERED.
- SCHOFIELD BROTHERS, LLC SHALL BE NOTIFIED OF ANY SIGNIFICANT DIFFERENCES IN THE EXISTING CONDITIONS OR UTILITIES THAT MAY AFFECT THE CONSTRUCTION SHOWN ON THIS PLAN FOR ANY NECESSARY PLAN REVISIONS.
- THIS PLAN IS NOT INTENDED TO SHOW AN ENGINEERED BUILDING FOUNDATION DESIGN WHICH WOULD INCLUDE DETAILS AND ELEVATIONS FOR FOOTINGS, FOUNDATION WALL DESIGN AND ANY SUBSURFACE DRAINAGE TO PREVENT FLOODING. COORDINATE WITH THE ARCHITECTURAL AND STRUCTURAL PLANS.
- THE PROPOSED BUILDING CONFIGURATION AS SHOWN HEREON SHALL BE CONSIDERED CONCEPTUAL AND SHALL BE VERIFIED WITH THE FINAL ARCHITECTURAL PLANS AND THE CURRENT ZONING ORDINANCES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF ANY EXISTING FEATURES DAMAGED DURING CONSTRUCTION THAT ARE NOT INTENDED FOR DEMOLITION AND/OR REMOVAL HEREON.
- SAFETY MEASURES, CONSTRUCTION METHODS AND CONTROL OF WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IF LEDGE REMOVAL IS REQUIRED, EXPLOSIVES MUST NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND ALL APPLICABLE AGENCIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL AUTHORITIES MUST BE IN PLACE PRIOR TO THE CONTRACTOR STARTING AN EXPLOSIVE PROGRAM AND/OR ANY DEMOLITION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.
- CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL IN THE RIGHT-OF-WAY.

PLAN INTENT

- THE INTENT OF THIS PLAN IS FOR PERMITTING PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.

REGULATORY NOTES

- THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF ALL CONSTRUCTION REQUIREMENTS, CONDITIONS AND LIMITATIONS IMPOSED BY PERMITS AND APPROVALS ISSUED BY REGULATORY AUTHORITIES PRIOR TO THE COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL COORDINATE AND OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY REGULATORY AUTHORITIES.
- SURFACE OPENINGS AND EXCAVATION WORK WITHIN THE TOWN RIGHT OF WAY LIMITS WILL REQUIRE A STREET OPENING PERMIT (SOP), A TRENCH OPENING PERMIT (TOP) SHALL BE OBTAINED PRIOR TO EXCAVATION OF ANY TRENCH.
- INSTALLATION AND CONSTRUCTION OF PROPOSED UTILITIES TO CONFORM TO THE STANDARDS AND THE SPECIFICATIONS OF THE FRAMINGHAM DEPARTMENT OF PUBLIC WORKS AND THE MANUFACTURERS SPECIFICATIONS FOR THE PROPOSED PRODUCTS.
- ALL WORK MUST BE INSPECTED BY A FRAMINGHAM DEPARTMENT OF PUBLIC WORKS UTILITY INSPECTOR. THE ENGINEER SHALL ALSO PREPARE AN AS-BUILT PLAN FOR SUBMITTAL TO THE FRAMINGHAM DEPARTMENT OF PUBLIC WORKS. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING SCHOFIELD BROTHERS LLC, 48 HOURS BEFORE BEGINNING CONSTRUCTION AND 48 HOURS PRIOR TO SIGNIFICANT CONSTRUCTION EVENTS TO SCHEDULE NECESSARY INSPECTIONS.
- ALL SITE DRAINAGE, WATER, AND SEWER OUTSIDE THE BUILDING FOOTPRINT SHALL BE PERFORMED BY A CONTRACTOR LICENSED BY THE TOWN OF FRAMINGHAM.
- PRESSURE TESTING AND DISINFECTION TESTING SHALL COMPLY WITH THE TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS.
- ALL WORK OUTSIDE OF THE BUILDING THAT IS LESS THAN 10 FEET FROM THE INSIDE FACE OF THE BUILDING FOUNDATIONS SHALL CONFORM WITH THE UNIFORM STATE PLUMBING CODE OF MASSACHUSETTS, 248 CMR 2.00.
- CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
- SEWER DEMAND CALCULATIONS, BASED ON 310 CMR, TITLE 5 IS 3,160 GPD.

GRADING AND UTILITY PLAN NOTES

- THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON FIELD LOCATION OF VISIBLE STRUCTURES AND COMPILING INFORMATION FROM PLANS PROVIDED BY UTILITY COMPANIES AND GOVERNMENT AGENCIES AND CONFORMS TO "ASCE" QUALITY LEVEL "C" PER ASCE DOCUMENT "CI/ASCE 38-02". LOCATION SHOWN SHALL BE CONSIDERED APPROXIMATE. BEFORE CONSTRUCTION, THE LOCATION OF UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. IN ACCORDANCE WITH CH. 82, SEC 40 AS AMENDED, ALL UTILITY COMPANIES AND APPLICABLE CONTACT "DIG-SAFE" AT 811.
- UNLESS OTHERWISE SHOWN HEREON, ALL NEW UTILITIES SHALL BE UNDERGROUND.
- RIM ELEVATIONS SHOWN HEREON FOR NEW STRUCTURES ARE PROVIDED TO ASSIST THE CONTRACTOR WITH MATERIAL TAKEOFFS. FINAL RIM ELEVATIONS SHALL MATCH PAVEMENT, GRADING, LANDSCAPING, UNLESS SPECIFICALLY INDICATED OTHERWISE.
- WHERE CONNECTIONS AND STRUCTURES ARE TO BE INSTALLED AT EXISTING UTILITIES, THE CONTRACTOR SHALL CONFIRM THE LOCATION AND ELEVATION PRIOR TO INSTALLATION AND SHALL REPORT ANY SIGNIFICANT DISCREPANCY FROM THE PLAN INFORMATION TO THE ENGINEER.
- HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1:50 (2%) IN ANY DIRECTION.
- WALKWAY GRADES SHALL NOT HAVE LONGITUDINAL SLOPES IN EXCESS OF 1:50 (5%) OR CROSS SLOPES IN EXCESS OF 1:50 (2%), UNLESS OTHERWISE NOTED.
- WALK GRADIENTS AND CROSS SLOPES SHOWN HEREON ARE WITHIN, OR LESS THAN, THE REQUIREMENTS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD'S (MAAB) REGULATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONSTRUCT THE WORK SO THAT IT IS COMPLIANT WITH ALL REQUIRED REGULATIONS. NOTE THAT THE MAXIMUM GRADIENTS WITHIN THE REGULATIONS DO NOT RECOGNIZE "CONSTRUCTION TOLERANCES." EXCEEDING THE MAXIMUM GRADIENTS IN THE REGULATIONS IS ENTIRELY AT THE CONTRACTOR'S RISK. THE CONTRACTOR SHALL VERIFY IN WRITING THAT ALL WALKS HAVE BEEN CONSTRUCTED IN COMPLIANCE WITH THE MAAB'S REGULATIONS.
- ALL ACCESSIBLE PARKING SPACES SHALL HAVE SIGNAGE AND MARKINGS COMPLIANT WITH THE MAAB REGULATIONS.
- CURB RADII AND DIMENSIONS SHOWN HEREON ARE AT THE FACE OF CURB.
- WHERE NEW PAVING MEETING EXISTING PAVING, MEET LINE AND GRADE OF EXISTING WITH NEW PAVING.
- AT LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN AND SMOOTH EDGE.
- PERIMETER EROSION CONTROLS SHOWN HEREON SHALL BE INSTALLED PRIOR TO ANY EARTH DISTURBANCE AND SHALL SERVE AS A LIMIT OF WORK, UNLESS OTHERWISE SHOWN. SEE SHEET CE-13 FOR ADDITIONAL EROSION AND SEDIMENTATION CONTROL NOTES.
- RETAINING WALLS SHOWN HEREON ARE FOR SHOWING THE INTENT OF THE SITE GRADING. ALL PROPOSED RETAINING WALLS SHALL BE DESIGNED AND CERTIFIED BY OTHERS.

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

DATE SIGNED:

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

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NO.	APP	DATE	DESCRIPTION
2	BEC	5/31/16	PER TOWN COMMENTS
1	BEC	5/19/16	PER TOWN COMMENTS

DATE:	MARCH 21, 2016				
SCALE:	AS SHOWN				
DRAFTED:	JAL/KMR	CHECKED:	BEC	APPROVED:	BEC

SITE DATA, NOTES AND LEGEND SHEET

SHEET:	2 OF 20	CE-02
PROJECT NO.:	24800	

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DATE SIGNED:

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 CENTER**

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 874 EDGELL ROAD RR
 FRAMINGHAM, MASSACHUSETTS 01701

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PREPARED FOR:

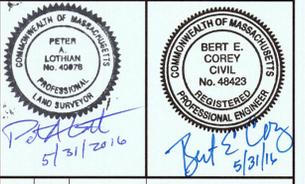
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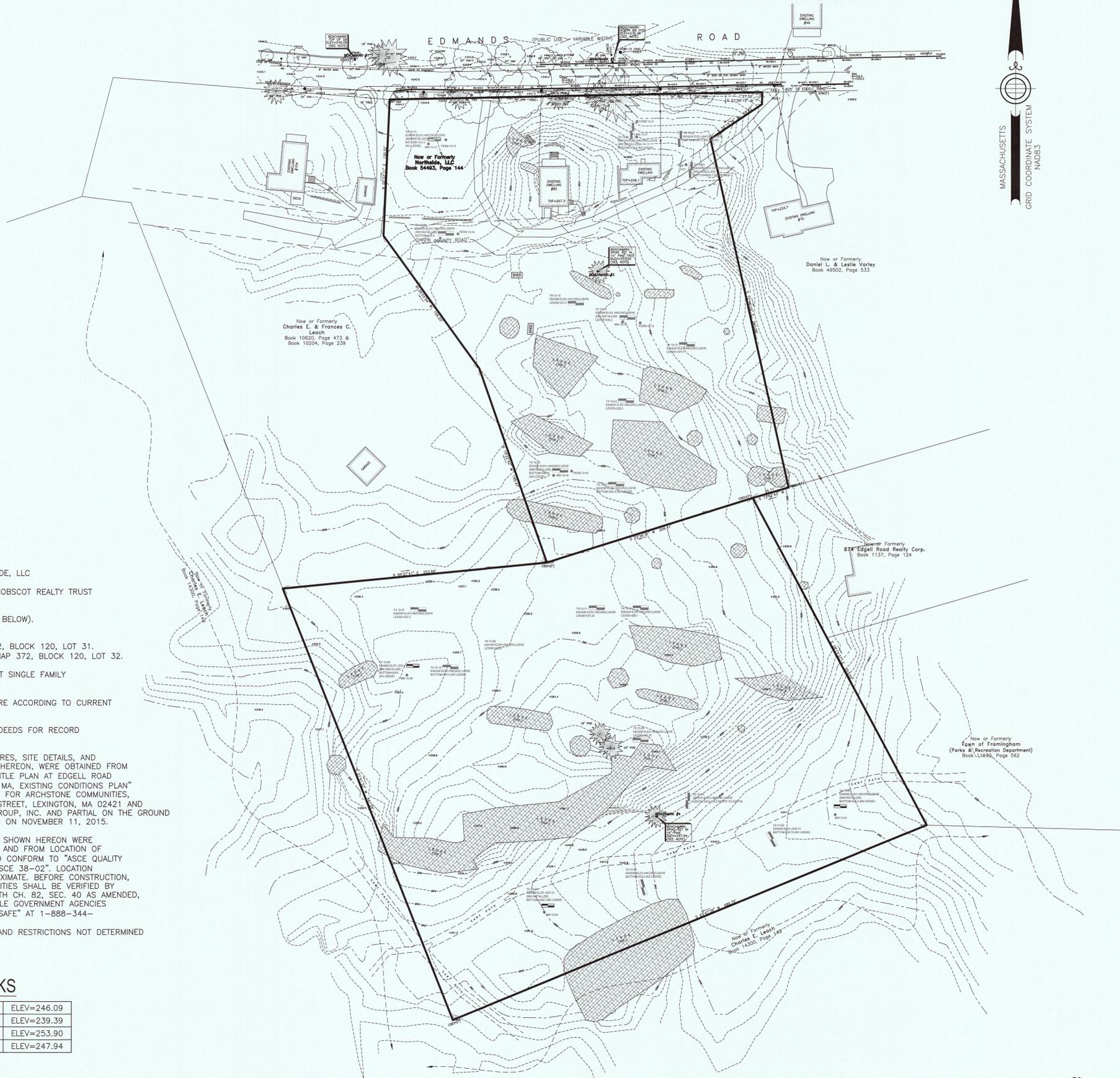
SCALE: **1" = 50'**

DRAFTED: **JAL/KMR** CHECKED: **BEC** APPROVED: **BEC**

**EXISTING
 CONDITIONS PLAN**

SHEET:
3 OF 20
 PROJECT NO.:
24800

CE-03



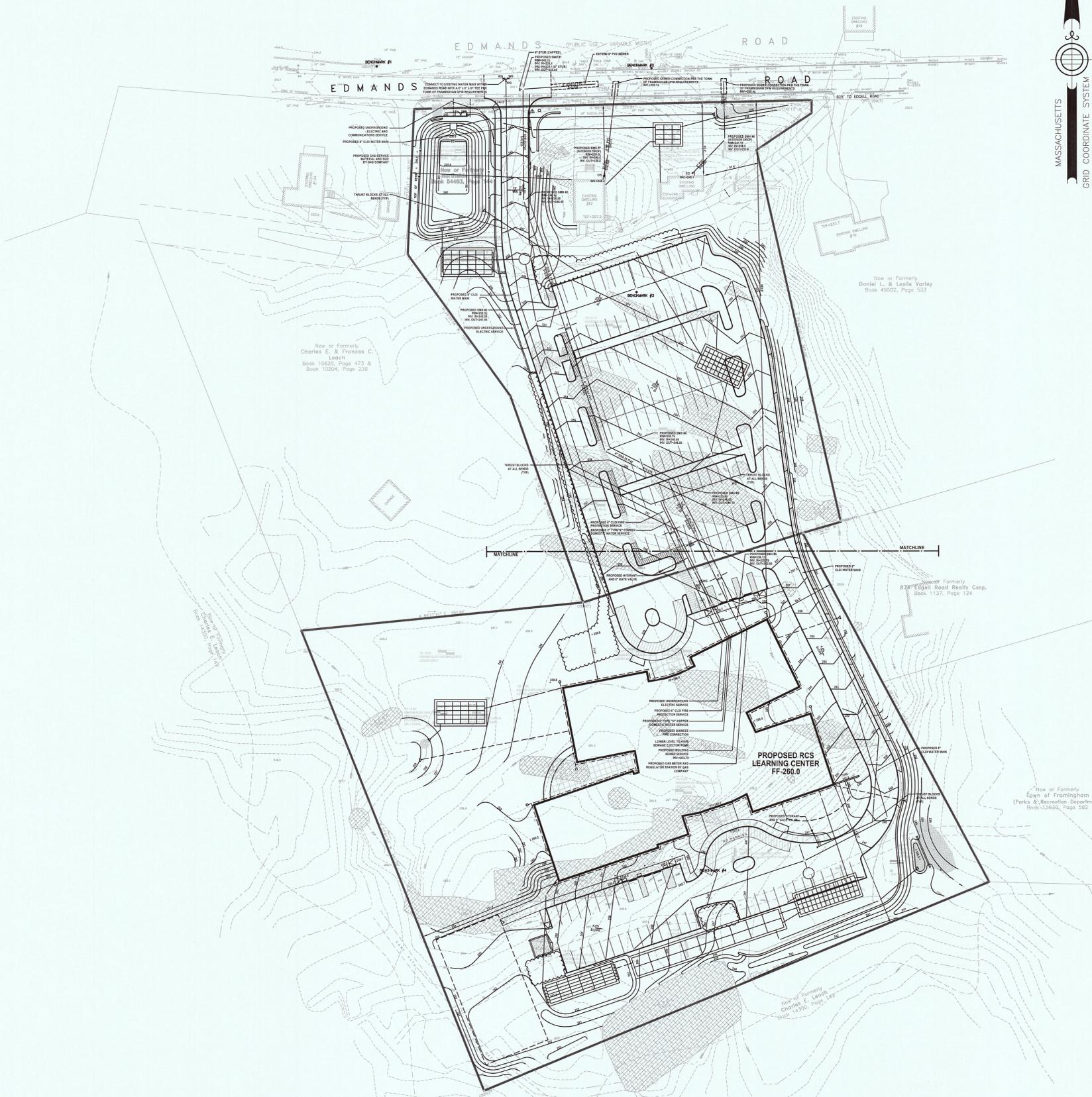
NOTES

- RECORD OWNERS ARE:
 ~ 82 EDMANDS ROAD - NORTHSIDE, LLC
 BOOK 54493, PAGE 144
 ~ 874 EDGELL ROAD (REAR) - NOBSCOT REALTY TRUST
 BOOK 49487, PAGE 534
- ELEVATIONS REFER TO (SEE NOTE #7 BELOW).
- SEE FRAMINGHAM ASSESSORS MAP:
 ~ 82 EDMANDS ROAD - MAP 372, BLOCK 120, LOT 31.
 ~ 874 EDGELL ROAD (REAR) - MAP 372, BLOCK 120, LOT 32.
- PARCEL FALLS WITHIN ZONING DISTRICT SINGLE FAMILY RESIDENCE "R-4".
- OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT ASSESSORS RECORDS.
- SEE MIDDLESEX SOUTH REGISTRY OF DEEDS FOR RECORD DOCUMENTS.
- PROPERTY LINES, TOPOGRAPHIC FEATURES, SITE DETAILS, AND SIGNIFICANT IMPROVEMENTS DEPICTED HEREON, WERE OBTAINED FROM A PLAN ENTITLED "ALTA/ACSM LAND TITLE PLAN AT EDGELL ROAD AND EDMANDS ROAD IN FRAMINGHAM, MA, EXISTING CONDITIONS PLAN" DATED DECEMBER 6, 2000, PREPARED FOR ARCHSTONE COMMUNITIES, c/o BOB McCULLOUGH 49 WALTHAM STREET, LEXINGTON, MA 02421 AND PREPARED BY DAYLOR CONSULTING GROUP, INC. AND PARTIAL ON THE GROUND SURVEY BY SCHOFIELD BROTHERS LLC ON NOVEMBER 11, 2015.
- LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON WERE DETERMINED FROM EXISTING RECORDS AND FROM LOCATION OF ABOVE GROUND UTILITY FEATURES AND CONFORM TO "ASCE QUALITY LEVEL C" PER ASCE DOCUMENT "CI/ASCE 38-02". LOCATION SHOWN SHALL BE CONSIDERED APPROXIMATE, BEFORE CONSTRUCTION, THE LOCATION OF UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. IN ACCORDANCE WITH CH. 82, SEC. 40 AS AMENDED, ALL UTILITY COMPANIES AND APPLICABLE GOVERNMENT AGENCIES MUST BE CONTACTED. CONTACT "DIG-SAFE" AT 1-888-344-7233 OR 811
- LEGAL STATUS OF WAYS, EASEMENTS AND RESTRICTIONS NOT DETERMINED BY THIS SURVEY.

BENCHMARKS

#1	TOP OF STONE BOUND	ELEV=246.09
#2	NORTH BB ON HYDRANT	ELEV=239.39
#3	SPIKE SET IN 14" PINE TREE	ELEV=253.90
#4	SPIKE SET IN 16" PINE TREE	ELEV=247.94

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Petalist
 5/31/2016

Bert E. Corey
 5/31/16

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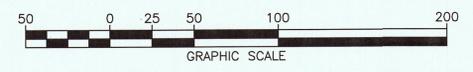
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OVERALL PROPOSED CONDITIONS PLAN

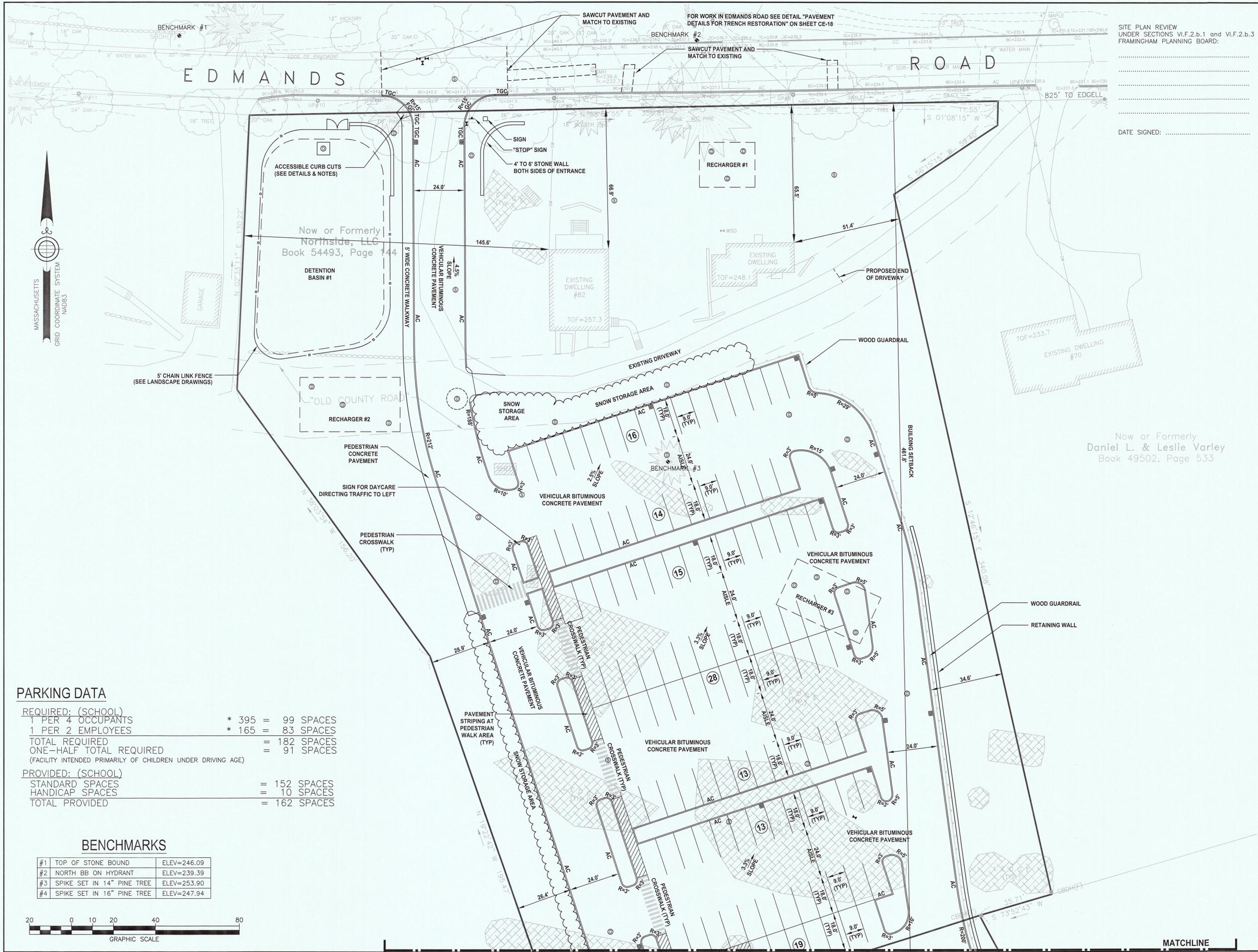
SHEET:
4 OF 20

PROJECT NO.:
24800

CE-04



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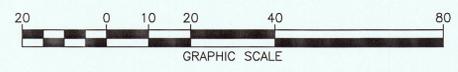
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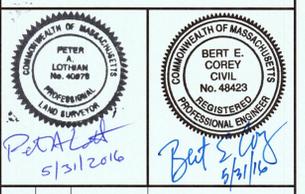
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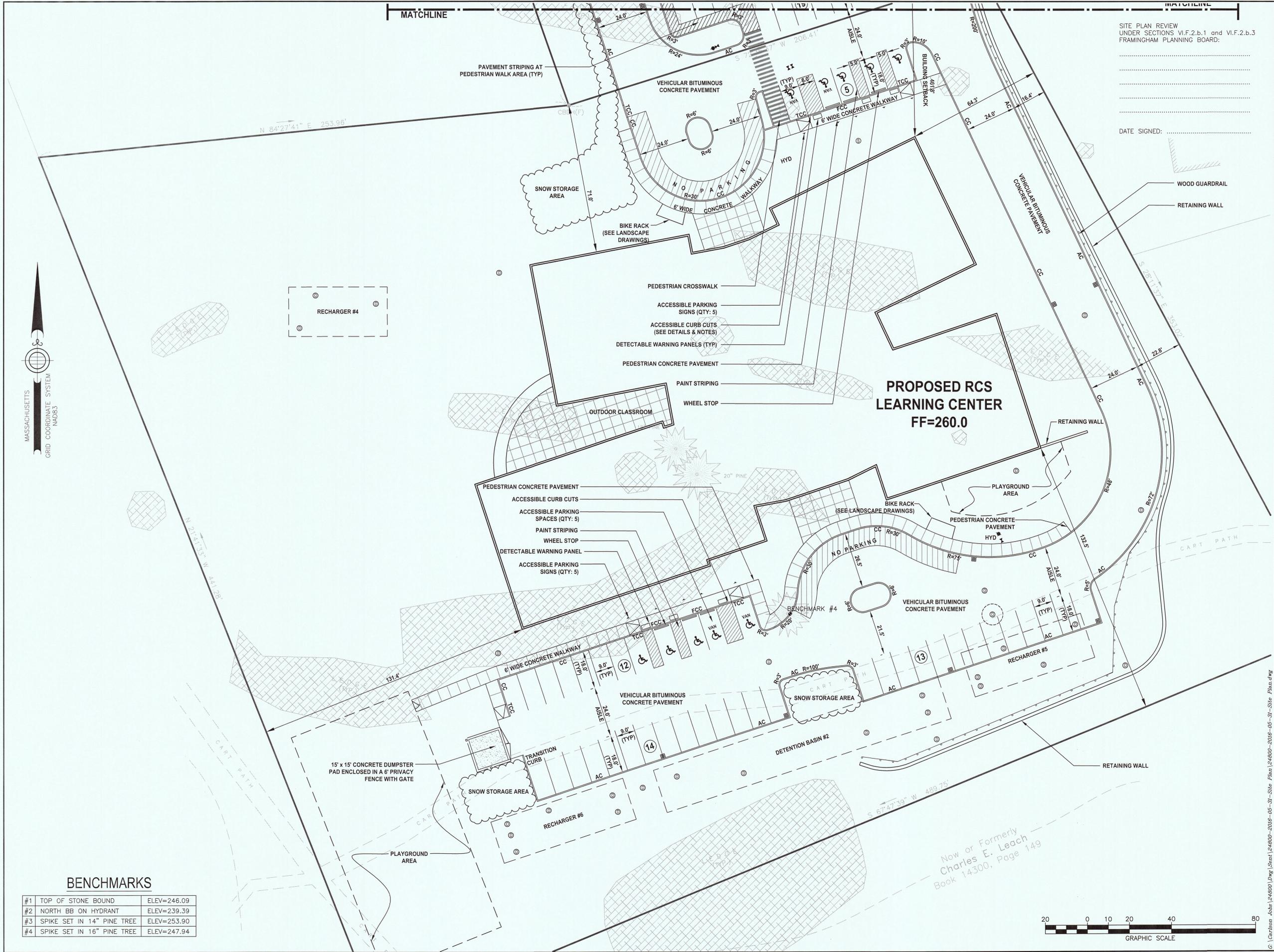
DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

**LAYOUT AND
 MATERIALS PLAN**

SHEET:
5 OF 20

PROJECT NO.:
24800

CE-05



SITE PLAN REVIEW
 UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
 FRAMINGHAM PLANNING BOARD:

 DATE SIGNED: _____

RCS LEARNING CENTER

82 EDMANDS ROAD
 874 EDGELL ROAD RR
 FRAMINGHAM, MASSACHUSETTS 01701
 ASSESSORS: MAP 372, BLOCK, 120 LOT 31
 MAP 372, BLOCK, 120 LOT 32

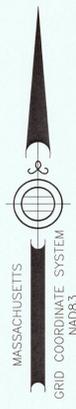
PREPARED FOR:
RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
 NATTICK, MASSACHUSETTS 01760

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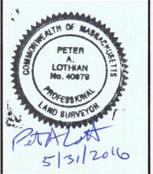
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MASSACHUSETTS
 GRID COORDINATE SYSTEM
 NAD83

BENCHMARKS

#1	TOP OF STONE BOUND	ELEV=246.09
#2	NORTH BB ON HYDRANT	ELEV=239.39
#3	SPIKE SET IN 14" PINE TREE	ELEV=253.90
#4	SPIKE SET IN 16" PINE TREE	ELEV=247.94



NO.	APP.	DATE	DESCRIPTION
2	BEC	5/31/16	PER TOWN COMMENTS
1	BEC	5/19/16	PER TOWN COMMENTS

DATE: **MARCH 21, 2016**

SCALE: **1" = 20'**

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

LAYOUT AND MATERIALS PLAN

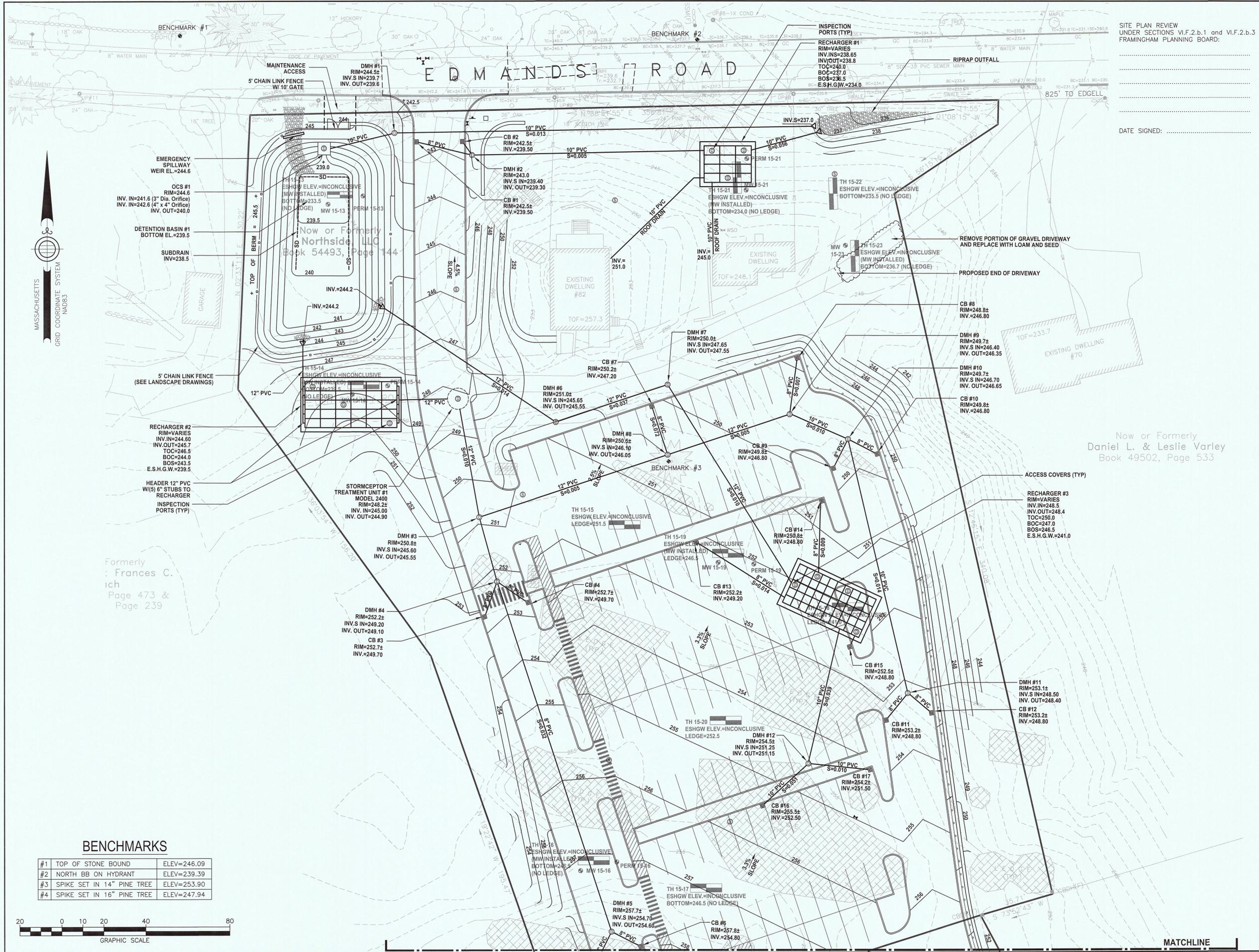
SHEET:
6 OF 20
 PROJECT NO.:
24800

CE-06



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Now or Formerly
 Charles E. Leach
 Book 14300, Page 149



SITE PLAN REVIEW
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 FRAMINGHAM PLANNING BOARD:

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**RCS
 LEARNING
 CENTER**

82 EDMANDS ROAD
 874 EDGELL ROAD RR
 FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
 MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

**RCS BEHAVIORAL
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 CONSULTING, LLC**

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PETER A. LOTHMAN
 No. 40978
 PROFESSIONAL ENGINEER

BERT E. COREY
 No. 49423
 PROFESSIONAL ENGINEER

Pat A. Lothman
5/31/2016

Bert E. Corey
5/31/16

NO.	APP	DATE	DESCRIPTION
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1	BEC	5/19/16	PER TOWN COMMENTS

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DRAFTED: JAL/KMR	CHECKED: BEC	APPROVED: BEC
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**GRADING AND
 DRAINAGE PLAN**

SHEET:
7 OF 20

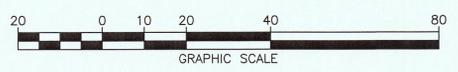
PROJECT NO.:
24800

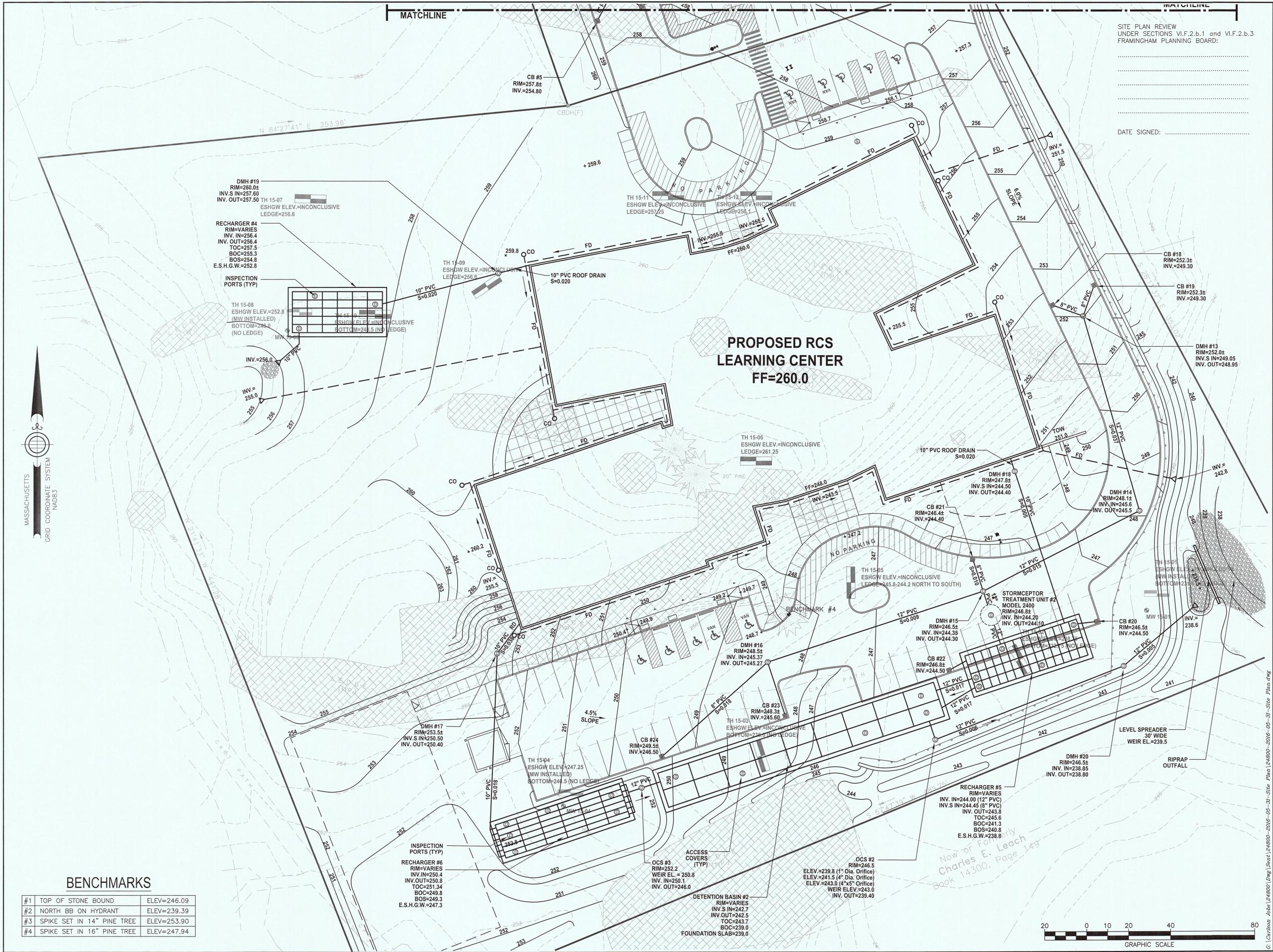
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BENCHMARKS

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#2	NORTH BB ON HYDRANT	ELEV=239.39
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SITE PLAN REVIEW
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RCS LEARNING CENTER

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SCALE: **1" = 20'**

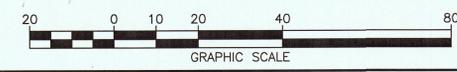
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JAL/KMR	BEC	BEC

GRADING AND DRAINAGE PLAN

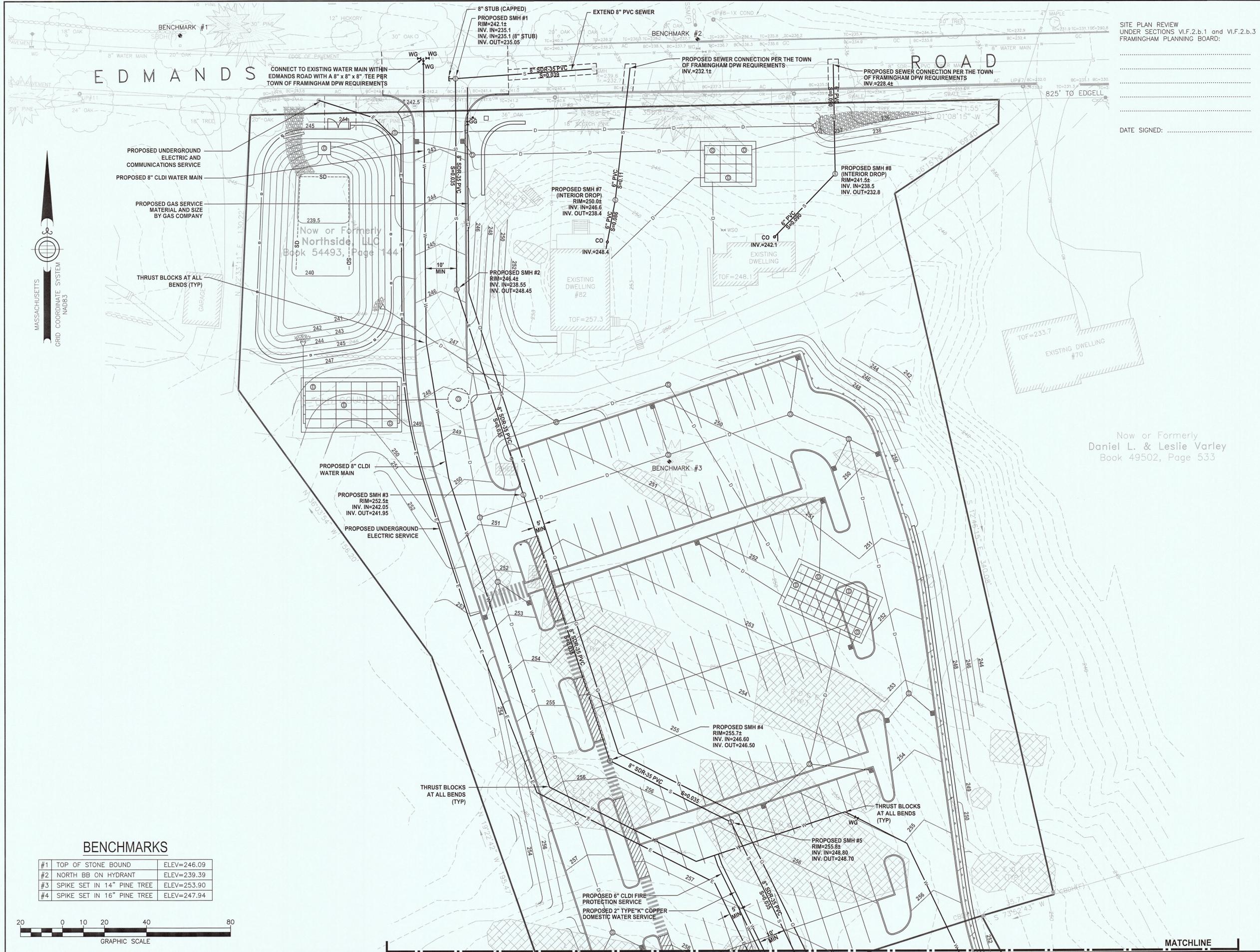
SHEET:
8 OF 20
 PROJECT NO.:
24800
CE-08

BENCHMARKS

#	DESCRIPTION	ELEVATION
#1	TOP OF STONE BOUND	ELEV=246.09
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SITE PLAN REVIEW
 UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
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 CENTER**

82 EDMANDS ROAD
 874 EDGELL ROAD RR
 FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
 MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

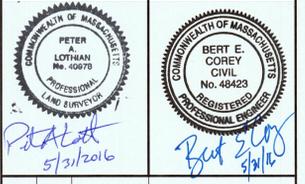
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DRAFTED: **JAL/KMR** CHECKED: **BEC** APPROVED: **BEC**

**SITE UTILITIES
 PLAN**

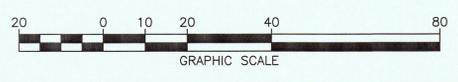
SHEET:
9 OF 20

PROJECT NO.:
24800

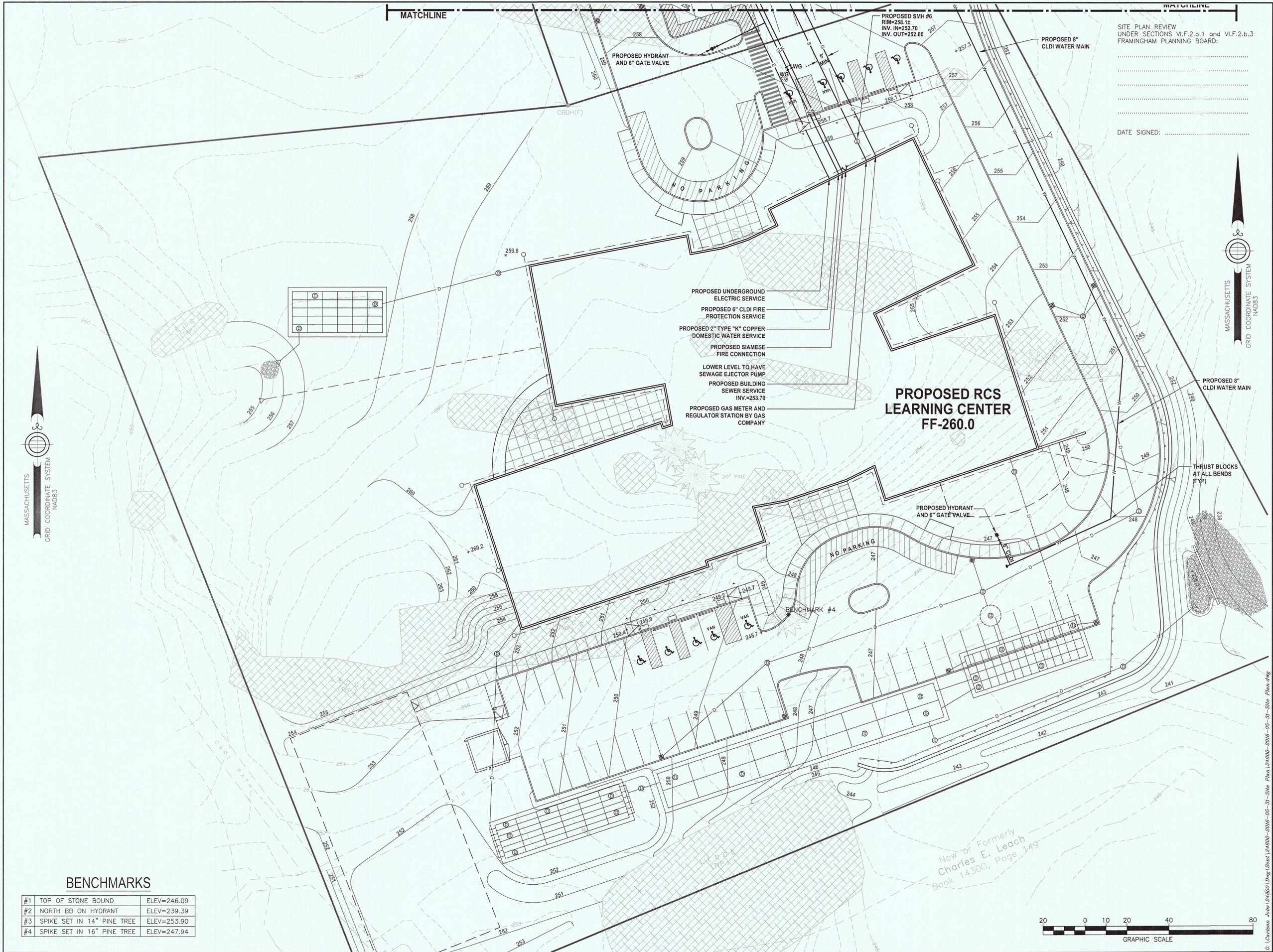
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BENCHMARKS

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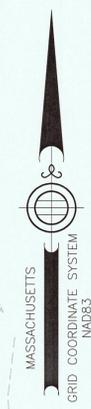


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SITE PLAN REVIEW
 UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
 FRAMINGHAM PLANNING BOARD:

 DATE SIGNED: _____

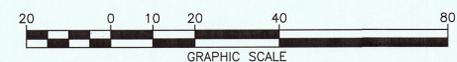


- PROPOSED UNDERGROUND ELECTRIC SERVICE
- PROPOSED 6" CLDI FIRE PROTECTION SERVICE
- PROPOSED 2" TYPE "K" COPPER DOMESTIC WATER SERVICE
- PROPOSED SIAMESE FIRE CONNECTION
- LOWER LEVEL TO HAVE SEWAGE EJECTOR PUMP
- PROPOSED BUILDING SEWER SERVICE INV.=253.70
- PROPOSED GAS METER AND REGULATOR STATION BY GAS COMPANY

**PROPOSED RCS LEARNING CENTER
 FF-260.0**

BENCHMARKS

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 NATTICK, MASSACHUSETTS 01760

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Peter A. Lothian
 5/31/2016

Bert E. Corey
 5/31/16

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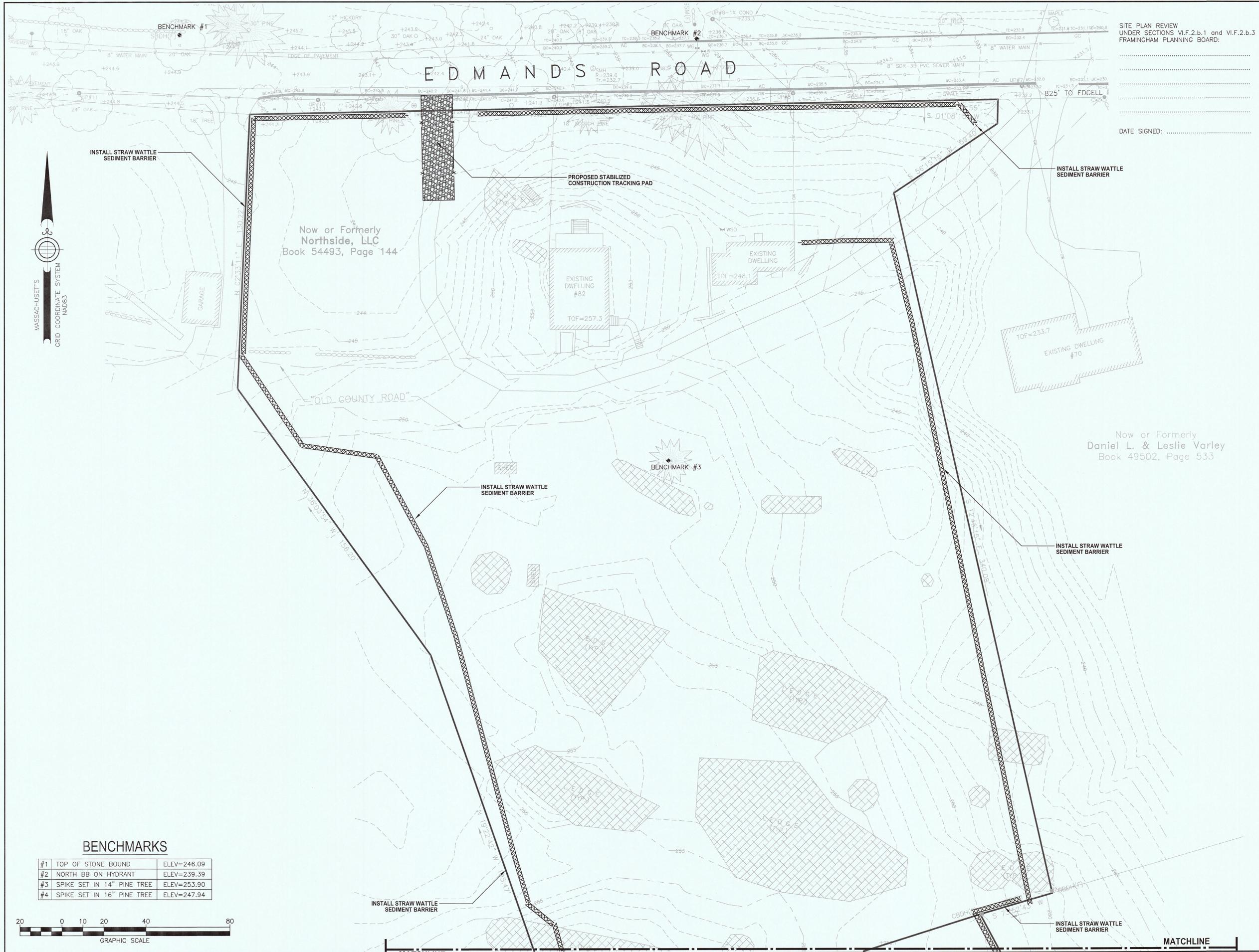
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DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

SITE UTILITIES PLAN

SHEET: 10 OF 20	<h1>CE-10</h1>
PROJECT NO.: 24800	

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 Now or Formerly Charles E. Leach Book 14300, Page 149



SITE PLAN REVIEW
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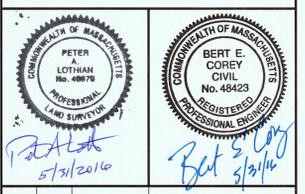
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**EROSION AND
 SEDIMENT
 CONTROL PLAN**

SHEET:
11 OF 20

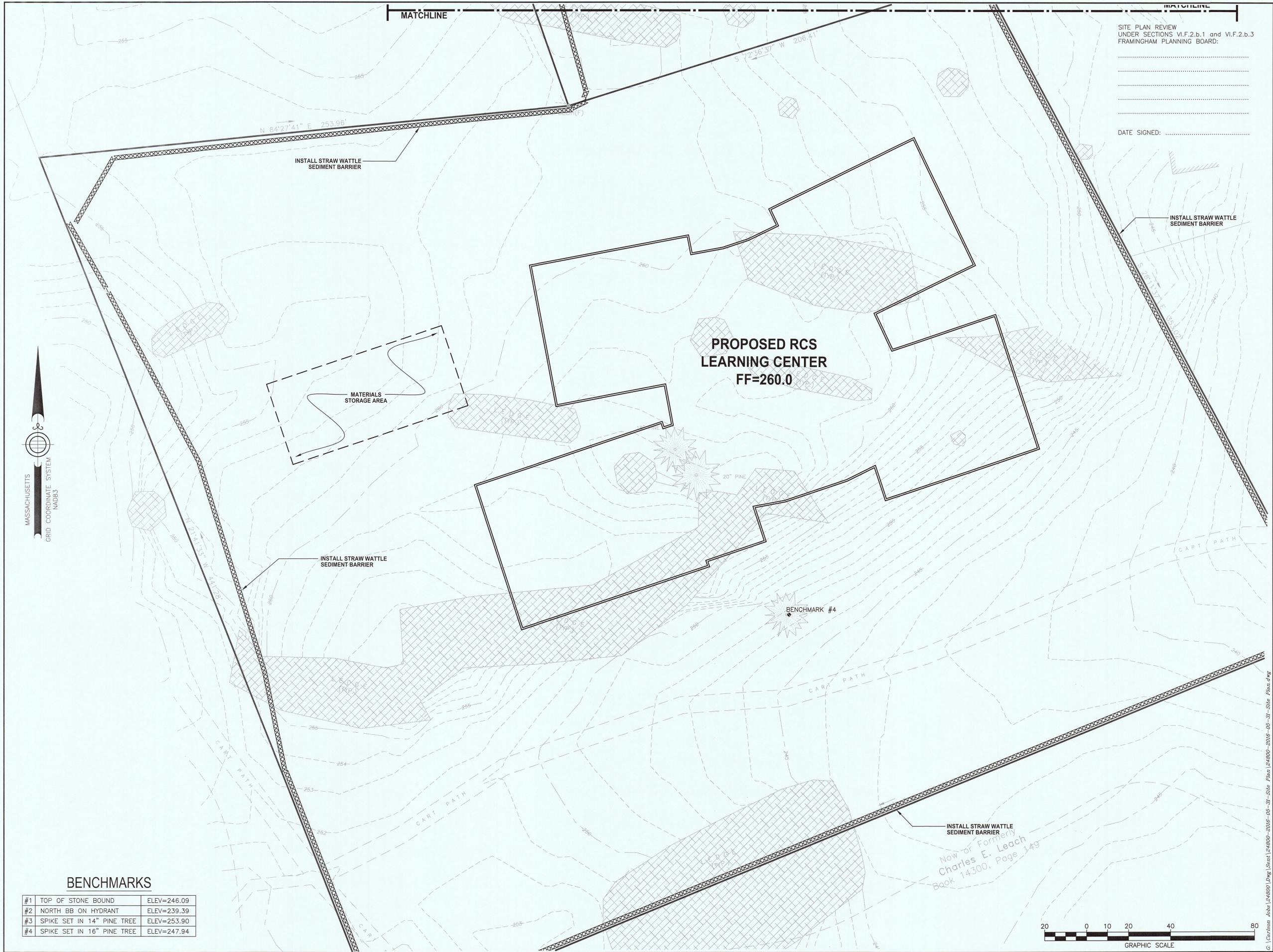
PROJECT NO.:
24800

CE-11

BENCHMARKS

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MASSACHUSETTS
 GRID COORDINATE SYSTEM
 NAD83

BENCHMARKS

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<i>Peter Lothian</i> 5/31/16	<i>Bert E. Corey</i> 5/31/16

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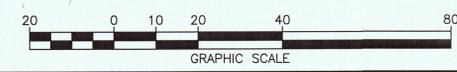
SCALE: **1" = 20'**

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EROSION AND SEDIMENT CONTROL PLAN

SHEET:
12 OF 20

PROJECT NO.:
24800



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GENERAL PERFORMANCE STANDARDS

1. THE CONTRACTOR SHALL INSTALL, ROUTINELY INSPECT AND MAINTAIN ALL SEDIMENT AND EROSION CONTROLS SUCH THAT THEY ARE IN PROPER WORKING ORDER AT ALL TIMES DURING THE CONSTRUCTION PROJECT UNTIL SUCH TIME AS ALL AREAS OF THE SITE TRIBUTARY TO THOSE EROSION CONTROLS ARE IN A PERMANENTLY STABILIZED CONDITION.
2. THE CONTRACTOR SHALL MANAGE THE SITE SUCH THAT EROSION AND SEDIMENT FROM RUNOFF AND WIND BLOWN DUST ARE CONTROLLED AND MINIMIZED AT ALL TIMES. THE EROSION CONTROLS SHOWN ON THIS PLAN INCLUDE THE INITIAL SETUP OF EROSION CONTROLS AND BASIC INFORMATION. TO MEET THE REQUIREMENT OF BEST MANAGEMENT PRACTICES, THE CONTRACTOR MUST MANAGE THE SITE PROPERLY WHICH MAY INCLUDE, BUT NOT BE LIMITED TO: MINIMIZING AREAS OF EXPOSED SOILS; INSTALLING TEMPORARY COVER; MAKE NECESSARY ADJUSTMENTS TO THE EROSION CONTROL INSTALLATIONS TO IMPROVE FUNCTION; INSTALL ADDITIONAL EROSION CONTROL WHERE NECESSARY.
3. THE EROSION CONTROL WORK SHOWN ON THIS PLAN MAY ALSO BE SUBJECT TO OTHER STATE AND LOCAL APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE CONDITIONS AND REQUIREMENTS OF THOSE PERMITS.
4. DESIGN, INSTALLATION AND MAINTENANCE OF SEDIMENT AND EROSION CONTROLS SHALL BE IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES FOLLOWING THE GUIDELINES INCLUDED IN THE FOLLOWING:
 - "STORMWATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES, DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES" U.S. ENVIRONMENTAL PROTECTION AGENCY, OCTOBER 1992.
 - "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, A GUIDE FOR PLANNERS, DESIGNERS AND MUNICIPAL OFFICIALS", MASS. EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS, MAY 2003.
 - U.S.D.A. NATURAL RESOURCES AND CONSERVATION SERVICES (NRCS) GUIDELINES.

FEDERAL NPDES PHASE II COMPLIANCE

1. THIS PROJECT IS SUBJECT TO THE FEDERAL CLEAN WATER ACT REQUIREMENTS FOR CONSTRUCTION SITES ADMINISTERED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA). THIS PROGRAM IS THE "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM - PHASE II FOR CONSTRUCTION SITES. FOR COMPLIANCE WITH THIS PROGRAM, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A COMPLETE "STORMWATER POLLUTION PREVENTION PLAN" (SWPPP) AND FILING A NOTICE OF INTENT WITH THE EPA AND THEN MANAGE THE SITE IN COMPLIANCE WITH THAT PLAN. NOTE THAT THE SWPPP IS TO BE PREPARED TO BE CONSISTENT WITH THIS EROSION AND SEDIMENT CONTROL PLAN AND OTHER APPLICABLE APPROVALS. THE EROSION AND SEDIMENT CONTROL PLAN INCLUDED IN THIS PLAN SET MAY BE USED AS PART OF THE DOCUMENTATION REQUIRED FOR THE PREPARATION OF A SWPPP, BUT IS NOT TO BE CONSIDERED AS MEETING THE FULL REQUIREMENTS OF A SWPPP PREPARED FOR COMPLIANCE WITH THE NPDES PROGRAM.
2. A COPY OF THE SWPPP SHALL BE FILED WITH THE MUNICIPAL AUTHORITIES AS REQUIRED BY APPLICABLE PERMITS AND APPROVALS.

PERIMETER SEDIMENT BARRIER AND LIMIT OF WORK

1. PRIOR TO ANY DISTURBANCE OR ALTERATIONS OF ANY AREA ON THE SITE, A SEDIMENT BARRIER AND ORANGE POLYETHYLENE CONSTRUCTION FENCING SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLAN.
2. INSTALL THE SEDIMENT BARRIER AS SHOWN ON THE PLAN. IN THOSE AREAS WHERE THE TOPOGRAPHY INDICATES THAT STORMWATER RUNOFF WILL BE CONCENTRATED (AT LOW POINTS), ADDITIONAL SEDIMENT BARRIER SHALL BE STAKED ON THE UPGRADIENT SIDE FOR ADDED FILTRATION AND PROTECTION. THE REQUIRED LOCATIONS FOR THE ADDITIONAL SEDIMENT BARRIER INSTALLATION WILL BE SELECTED BY THE ENGINEER AND / OR THE AUTHORIZED INSPECTOR / SWPPP COORDINATOR UPON COMPLETION OF THE SILT FENCE INSTALLATION. SEE DETAILS.
3. ONCE INSTALLED, THE SEDIMENT BARRIER SHALL BE MAINTAINED IN PLACE UNTIL ALL AREAS UPGRADIENT FROM THE BARRIERS HAVE BEEN PERMANENTLY STABILIZED.
4. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED OR WHERE SPECIAL STABILIZATION MEASURES OR LANDSCAPE PLANTINGS ARE PROPOSED SHALL BE LOAMED AND SEEDED OR SODDED. SIX INCHES OF LOAM TOPSOIL (MIN. COMPACTED DEPTH) SHALL BE APPLIED UNLESS OTHERWISE SPECIFIED. SEE LANDSCAPE PLAN AND OTHER PLANS AS APPLICABLE.
5. THE SEDIMENT BARRIER AND ORANGE CONSTRUCTION FENCING ARE ALSO A LIMIT OF WORK. ALL AREAS OUTSIDE THE LIMIT ARE TO BE LEFT UNDISTURBED. DURING THE SITE WORK, ALL PERSONS AND EQUIPMENT SHALL STAY OUT OF THESE AREAS TO PRESERVE THE EXISTING VEGETATION AND SOIL COVER.

CONSTRUCTION ENTRANCE

1. AT THE START OF SITE WORK, A STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE ACCESS TO THE SITE FROM THE ROADWAY TO CONTROL THE TRACKING OF MUD OFF THE SITE. THE ENTRANCE SHALL BE MAINTAINED UNTIL THE SITE IS IN A STABILIZED CONDITION WHEN THE POSSIBILITY OF VEHICLES TRACKING MUD OFF SITE HAS BEEN ELIMINATED.
2. THE CONTRACTOR SHALL RELOCATE THE CONSTRUCTION ENTRANCE AS THE LOCATIONS CHANGE THROUGHOUT THE DURATION OF CONSTRUCTION.
3. THE CONTRACTOR SHALL SWEEP THE ADJACENT ROADWAYS WHEN MUD, DUST, DIRT, DEBRIS, ETC. HAS SHOWN SIGNS OF BUILDUP ON THE ROADWAYS AT THE ENTRANCE OF THE SITE. THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THIS MATTER AND IMMEDIATE ATTENTION IS ALWAYS REQUIRED.

DEWATERING OF EXCAVATIONS

1. DISCHARGE FROM DEWATERING PUMPS OR TEMPORARY TRENCH OR EXCAVATION DRAINS SHALL NOT BE DISCHARGED DIRECTLY TO THE ON-SITE DRAINAGE SYSTEM OR WETLAND RESOURCE AREAS. DISCHARGES SHALL BE DIRECTED TO A TREATMENT SYSTEM CONSISTING OF A SEDIMENT BASIN, STRAW BALE SEDIMENT BASIN, FILTER BAG SYSTEM OR OTHER APPROVED METHOD TO FILTER THE DISCHARGE WATER AND PREVENT EROSION.
2. ALL DEWATERING DISCHARGES SHALL COMPLY WITH THE MUNICIPAL REQUIREMENTS, UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, MASSACHUSETTS DEP AND OTHER APPROPRIATE AGENCIES.
3. UNDER NO CIRCUMSTANCE SHALL DEWATERING DRAINAGE BE DISCHARGED INTO A SANITARY SEWER.

SOIL STOCKPILES

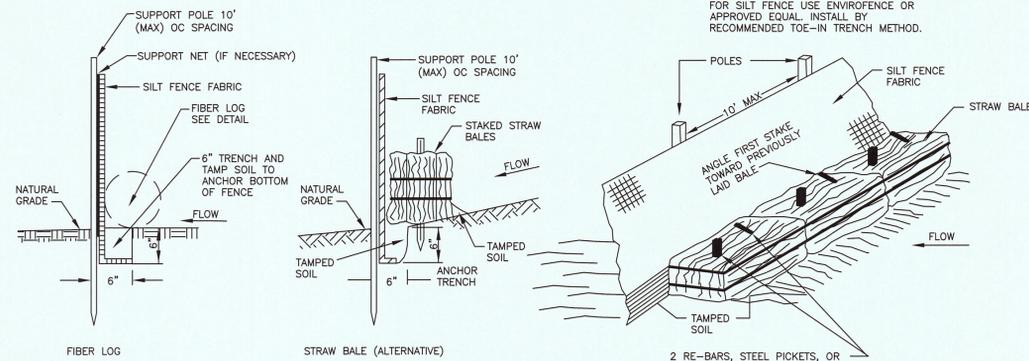
1. STOCKPILES OF SOIL MATERIALS SHALL BE PLACED WITHIN AREAS THAT ARE PROTECTED BY SEDIMENT BARRIER AS SHOWN ON THIS PLAN, OR SHALL BE SURROUNDED BY PROPER SILT FENCING, FIBER LOGS, OR STAKED STRAW BALES.
2. STOCKPILES THAT ARE TO BE IN PLACE FOR EXTENDED PERIODS OF TIME (MORE THAN 30 DAYS) SHALL BE COVERED OR OTHERWISE TEMPORARILY STABILIZED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

CATCH BASIN INLET PROTECTION

1. CATCH BASINS WITHIN THE WORK AREA OR THAT WILL RECEIVE RUNOFF FROM THE WORK AREA SHALL BE PROTECTED WITH A SILT SACK AND/OR OTHER APPROVED INSTALLATION TO MINIMIZE THE SEDIMENT LOAD TO THE BASIN.

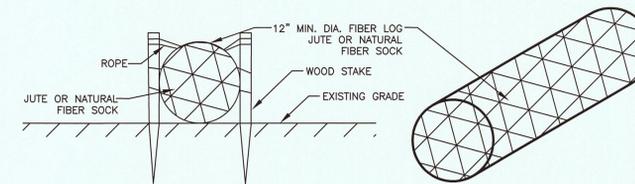
DUST CONTROL

1. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES DURING SITE WORK TO MINIMIZE WIND BLOWN DUST FROM EXPOSED SOIL SURFACES. MEASURES INCLUDE BUT ARE NOT LIMITED TO:
 - SPRINKLING WATER ON EXPOSED SURFACES
 - APPLICATION OF TEMPORARY COVER SUCH AS HYDRO MULCH AND TACIFIER, STRAW MATTING, JUTE NETTING, ETC.
 - USE OF CALCIUM CHLORIDE ON EXPOSED SURFACES



**PERIMETER EROSION CONTROLS
STAKED FIBER LOG/STRAW BALE AND SILT FENCE
SEDIMENT BARRIER DETAIL**

(NO SCALE)

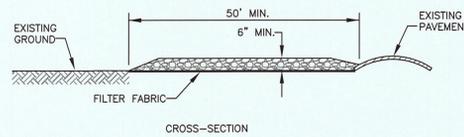
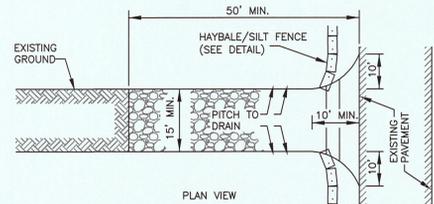


INSTALLATION NOTES FOR FIBER LOGS:

1. LAY THE FIBER LOG AT THE UPHILL BASE OF THE SILT FENCE.
2. INSTALL APPROXIMATELY 4-6 WOOD STAKES THROUGH THE TWINE/NETTING ALONG THE FIBER LOG AS NEEDED TO HOLD THE LOG IN PLACE.
3. DRIVE THE STAKE INTO THE GROUND DEEP ENOUGH TO HOLD THE LOG.
4. IN PAVED AREAS, SECURE FIBER LOG WITH CONCRETE BLOCKS OR SAND BAGS.
5. THE FILLING OF THE FIBER LOG MAY BE SHREDDED STRAW, COIR, COMPOST OR OTHER APPROVED MATERIAL.
6. FIBER LOG SHALL BE 12 INCHES (MIN) IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

FIBER LOG DETAIL

(NO SCALE)

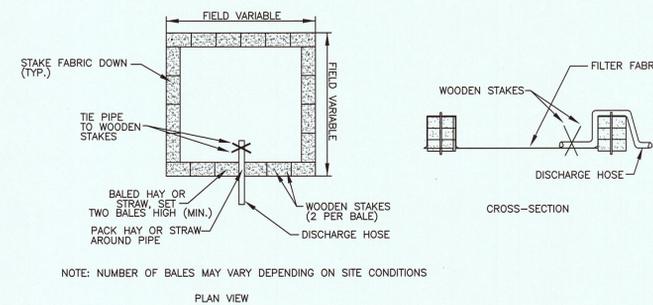


CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE - USE 1 1/2" TO 3 1/2" WASHED, ANGULAR STONE. (SEE SPECIFICATIONS)
2. THICKNESS - NOT LESS THAN SIX (6) INCHES.
3. WIDTH - FIFTEEN (15) FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
4. FILTER FABRIC - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. USE MIRAFI HP-370 OR EQUAL.
5. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
6. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.

CONSTRUCTION TRACKING PAD DETAIL

(NO SCALE)



NOTE: NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS

DEWATERING OF EXCAVATIONS NOTES:

1. DISCHARGE FROM DEWATERING PUMPS OR TEMPORARY TRENCH OR EXCAVATION DRAINS SHALL NOT DISCHARGE DIRECTLY TO WETLANDS OR EXISTING DRAIN SYSTEMS. THE DISCHARGES SHALL BE DIRECTED INTO A CONSTRUCTED SEDIMENT BASIN OR A STRAW BALE SETTLING BASIN.

STRAW BALE SETTLING BASIN DETAIL

(NO SCALE)

SITE PLAN REVIEW UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3 FRAMINGHAM PLANNING BOARD:

DATE SIGNED:

RCS LEARNING CENTER

82 EDMUNDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
ENGINEERING ♦ SURVEYING ♦ PLANNING ♦ GIS

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Bert E. Corey
Professional Engineer

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NO.	APP	DATE	DESCRIPTION
2	BEC	5/31/16	PER TOWN COMMENTS
1	BEC	5/19/16	PER TOWN COMMENTS

DATE: **MARCH 21, 2016**

SCALE: **AS SHOWN**

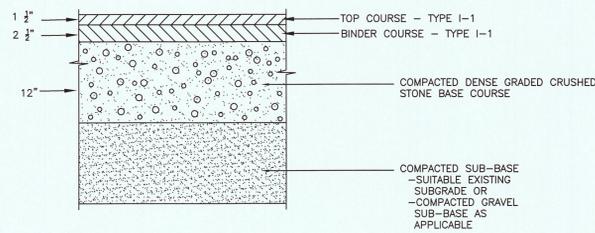
DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

EROSION CONTROL NOTES AND DETAILS

SHEET:
13 OF 20

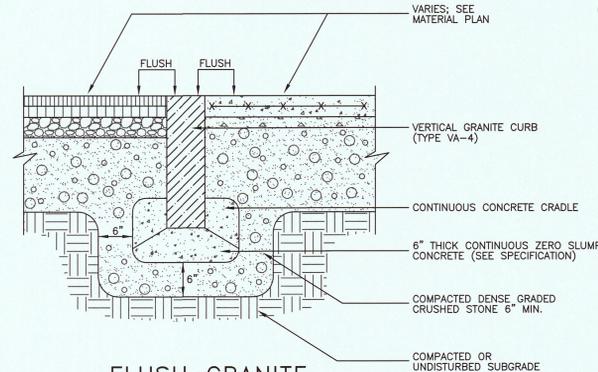
PROJECT NO.:
24800

CE-13



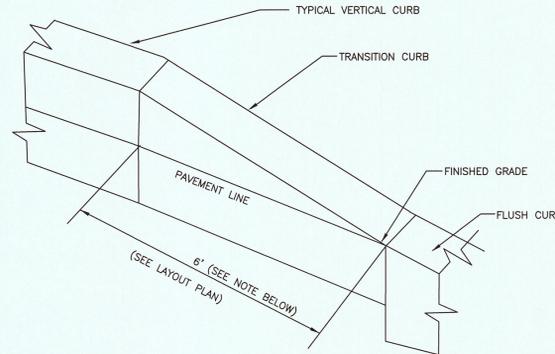
ASPHALT PAVEMENT DETAIL

(NO SCALE)



FLUSH GRANITE CURB DETAIL

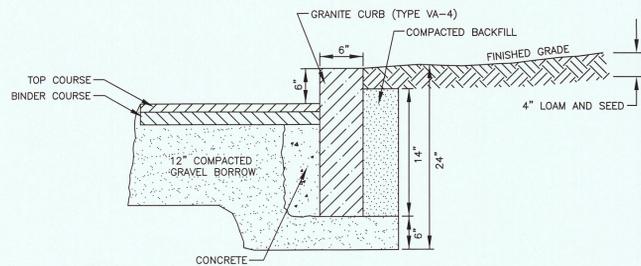
(NO SCALE)



VERTICAL GRANITE TRANSITIONAL CURB DETAIL

(NO SCALE)

NOTE: LENGTH OF TRANSITION MAY NEED TO BE LONGER THAN 6 FEET IN CERTAIN SITUATIONS TO MEET ADA AND MAAB REQUIREMENTS. CONTRACTOR SHALL DETERMINE THE REQUIRED LENGTH TO MEET GRADES AS REQUIRED.

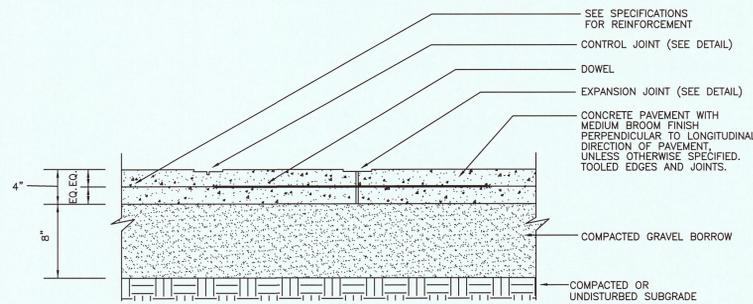


NOTES:

- CURB INSTALLATION ALONG EXISTING ROAD PAVEMENT SHALL BE SAW CUT AND PATCHED WITH A 2-1/2" BITUMINOUS 3/4" GRADE BINDER COURSE, AND TOPPED WITH A 1-1/2" WEAR COURSE OF TYPE "I". THE CUT JOINT SHALL BE THOROUGHLY SEALED WITH ASPHALT EMULSION AND SAND.
- COMPACTED GRAVEL BORROW TO CONFORM TO MASSACHUSETTS HIGHWAY DEPARTMENT (MHD) M1.03.0 TYPE C (MAX. DIA. 2") COMPACTED IN ONE LIFT.
- GRANITE CURB INSTALLATION TO BE PER MHD SECTION 501 AND THE LATEST FRAMINGHAM HIGHWAY DEPARTMENT STANDARDS.
- CONCRETE TO BE AIR ENTRAINED CLASS D CONFORMING TO MHD M4.02.00.
- GROUTING OF CURB JOINTS TO BE NON-SHRINK GROUTING CONFORMING TO ASTM C-827.

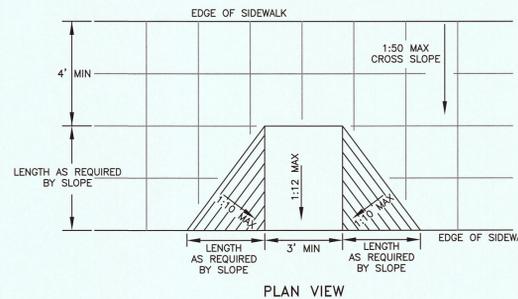
GRANITE CURB AND PAVEMENT DETAIL

(NO SCALE)



CONCRETE SIDEWALK DETAIL

(NO SCALE)



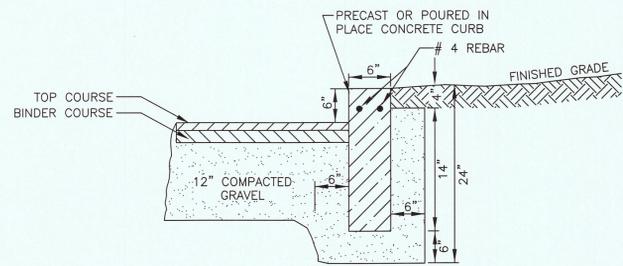
PLAN VIEW

NOTES:

- THE DIMENSIONS SHOWN ARE MINIMUM VALUES AND THE SLOPES SHOWN ARE MAXIMUM VALUES AS REQUIRED BY LAW.
- MAXIMUM CROSS SLOPE FOR ANY PART OF THE SIDEWALK IS ALWAYS 1:50.
- PORTLAND CEMENT CONCRETE RAMPS ARE TO BE TEXTURED BY BROOMING IN A DIRECTION PARALLEL TO THE LENGTH OF THE RAMP.
- IN NO CASE ARE THE RAMPS TO BE PLACED BEHIND THE STOP LINE.
- CURB CUTS ARE REQUIRED AT DRIVEWAYS INTERSECTING SIDEWALKS WHEN THE DRIVEWAY HAS CURBS.
- TRANSITIONS SHALL BE FLUSH OR FREE OF CHANGES IN LEVEL GREATER THAN HALF AN INCH.
- ADJOINING GUTTERS OR ADJACENT ROAD SURFACES SHALL NOT HAVE A SLOPE GREATER THAN 1:20.
- GRADING AND DRAINAGE SHALL BE DESIGNED TO MINIMIZE POOLING OF WATER, ACCUMULATION OF ICE, OR FLOW OF WATER ACROSS THE BASE OF THE CURB CUT.

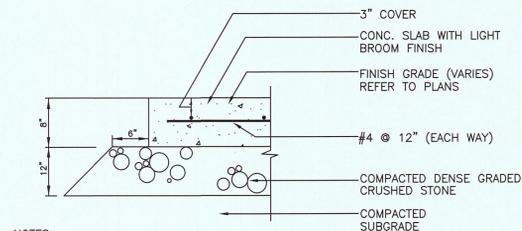
CURB CUT DETAIL

(FOR SIDEWALK, WITH FLARED SIDES)
(NO SCALE)



CONCRETE CURB DETAIL

(NO SCALE)

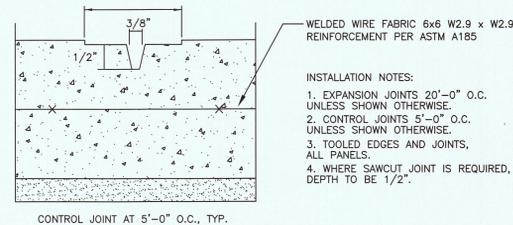


NOTES:

- EXPANSION JOINTS 20'-0" O.C. UNLESS SHOWN OTHERWISE.
- CONTROL JOINTS 5'-0" O.C. UNLESS SHOWN OTHERWISE.
- TOOLED EDGES AND JOINTS, ALL PANELS.
- WHERE SAWCUT JOINT IS REQUIRED, DEPTH TO BE 1 1/2".
- WHERE EXPANSION JOINT ABUTS WALL OR OTHER VERTICAL SURFACE, DELETE EXPANSION SLEEVE AND DOWEL.
- ALL TOOL MARKS ARE TO BE SMOOTHED OUT BY A LIGHT BROOM FINISH AFTER APPLICATION.

CONCRETE PAVEMENT DETAIL (VEHICULAR)

(NO SCALE)



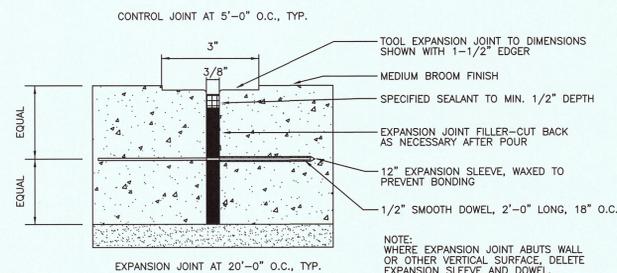
INSTALLATION NOTES:

- EXPANSION JOINTS 20'-0" O.C. UNLESS SHOWN OTHERWISE.
- CONTROL JOINTS 5'-0" O.C. UNLESS SHOWN OTHERWISE.
- TOOLED EDGES AND JOINTS, ALL PANELS.
- WHERE SAWCUT JOINT IS REQUIRED, DEPTH TO BE 1/2".

CONTROL JOINT AT 5'-0" O.C., TYP.

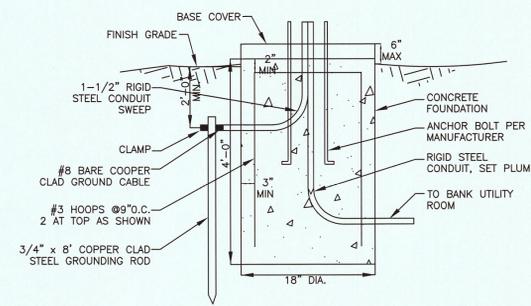
CONCRETE SIDEWALK EXPANSION AND CONTROL JOINTS DETAIL

(NO SCALE)



NOTE: WHERE EXPANSION JOINT ABUTS WALL OR OTHER VERTICAL SURFACE, DELETE EXPANSION SLEEVE AND DOWEL.

EXPANSION JOINT AT 20'-0" O.C., TYP.



LIGHT POLE FOUNDATION DETAIL

(NO SCALE)

SITE PLAN REVIEW UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3 FRAMINGHAM PLANNING BOARD:

DATE SIGNED:

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

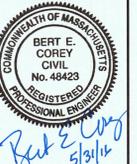
RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
ENGINEERING ♦ SURVEYING ♦ PLANNING ♦ GIS

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NO.	APP	DATE	DESCRIPTION
2	BEC	5/31/16	PER TOWN COMMENTS
1	BEC	5/19/16	PER TOWN COMMENTS

DATE: **MARCH 21, 2016**

SCALE: **AS SHOWN**

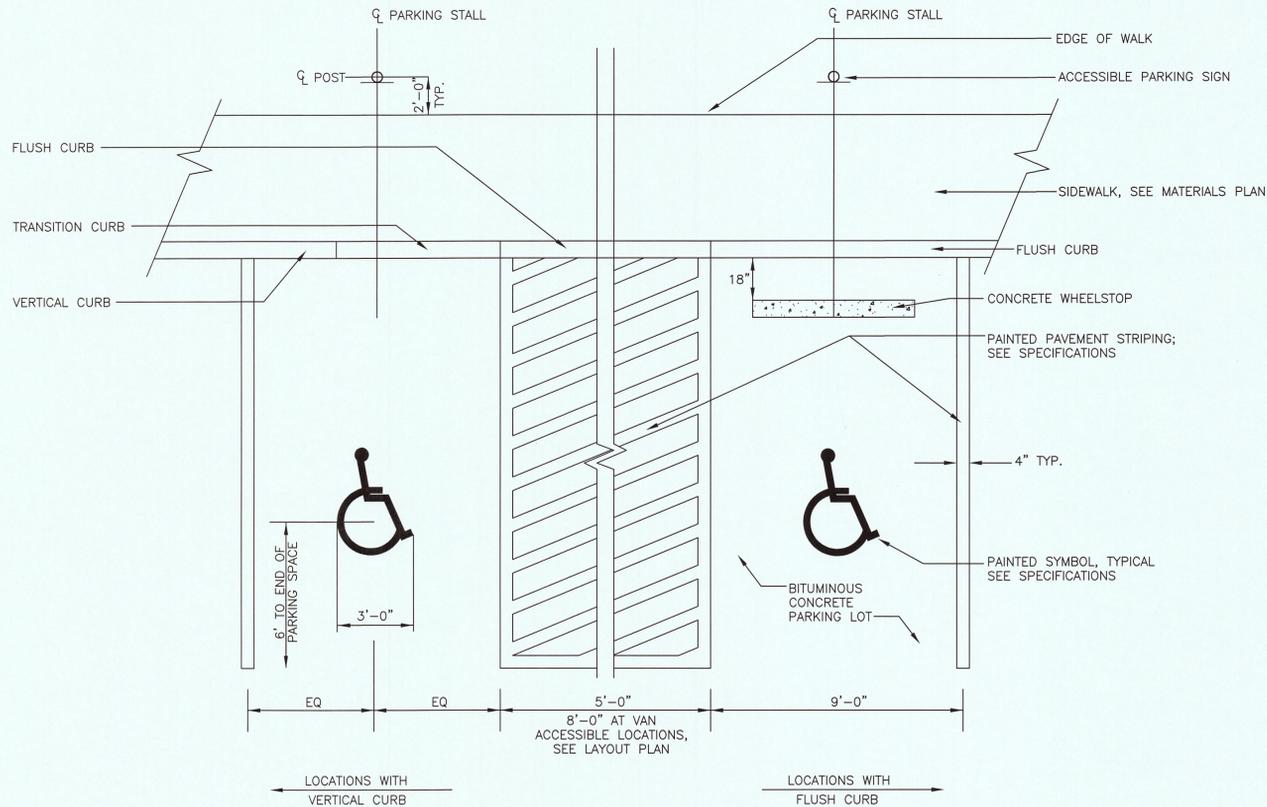
DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

SITE DETAILS #1

SHEET: 14 OF 20

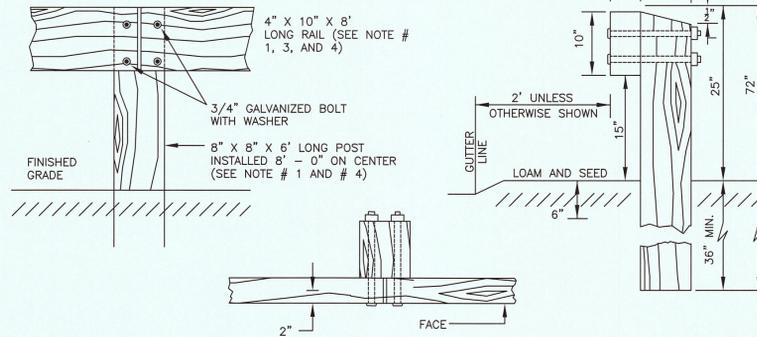
PROJECT NO.: 24800

CE-14



ACCESSIBLE PARKING STALL

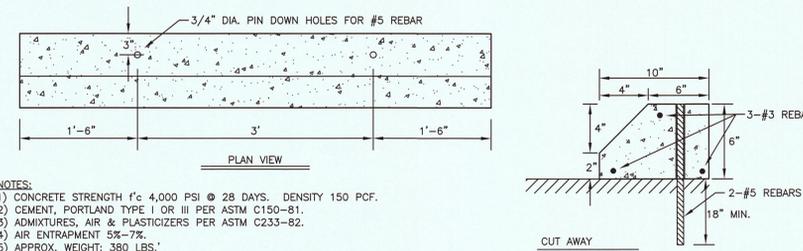
(NO SCALE)



- NOTES:
 1. POSTS SHALL BE INSTALLED 36" MIN. DOWN FROM FINISHED GRADE.
 2. REFLECTORS TO BE INSTALLED MIDWAY BETWEEN POST LOCATIONS.
 3. ALL TIMBER MATERIAL SHALL BE SELECT STRUCTURAL DOUGLAS FIR OR SOUTHERN YELLOW PINE, PRESSURE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ).
 4. ENDS OF GUARD RAILS HAVE A TRANSITION TO FINISHED GROUND LEVEL.

WOOD GUARD RAIL DETAIL

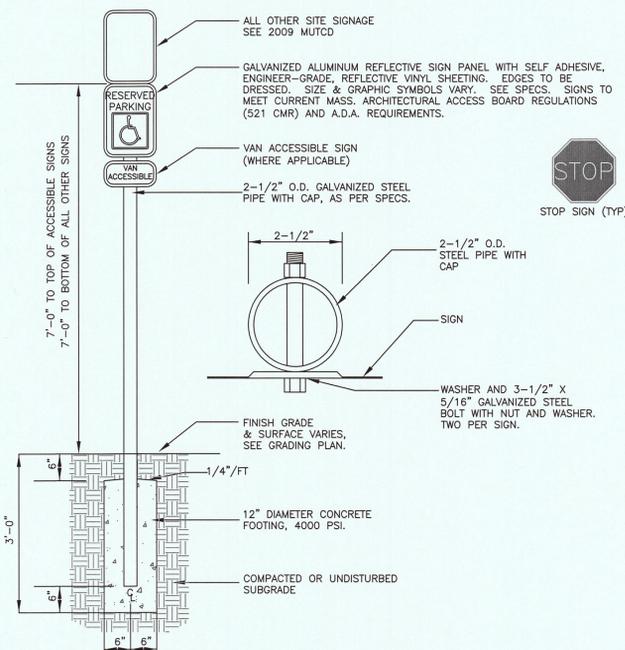
(NO SCALE)



- NOTES:
 1) CONCRETE STRENGTH f'_c 4,000 PSI @ 28 DAYS. DENSITY 150 PCF.
 2) CEMENT, PORTLAND TYPE I OR III PER ASTM C150-81.
 3) ADMIXTURES, AIR & PLASTICIZERS PER ASTM C233-82.
 4) AIR ENTRAPMENT 5%-7%.
 5) APPROX. WEIGHT: 380 LBS.

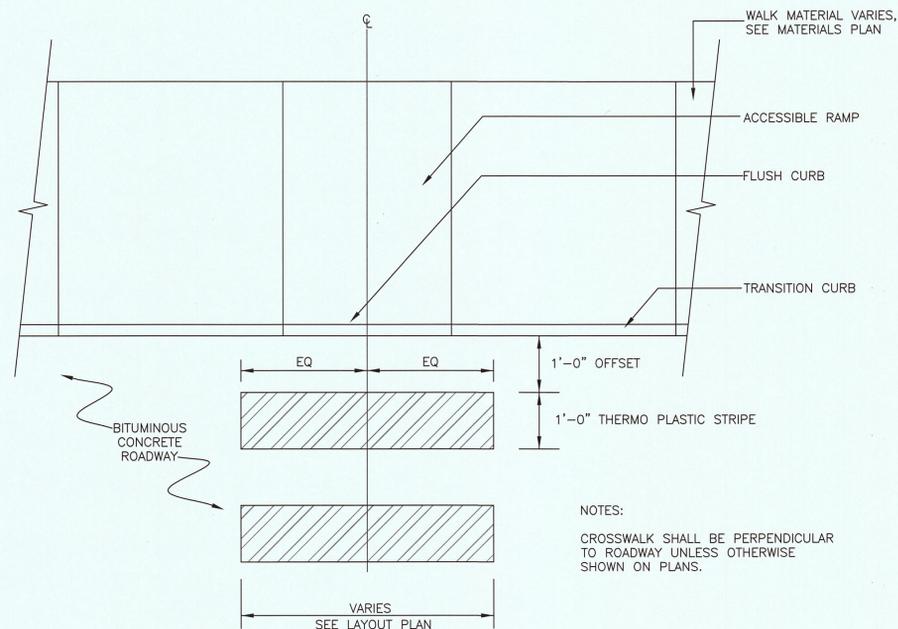
6' STANDARD CONCRETE WHEEL STOP DETAIL

(NO SCALE)



SIGN POST DETAIL

(NO SCALE)



PAINTED PEDESTRIAN CROSSWALK

(NO SCALE)

SITE PLAN REVIEW
 UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
 FRAMINGHAM PLANNING BOARD:

DATE SIGNED:

RCS LEARNING CENTER

82 EDMANDS ROAD
 874 EDGELL ROAD RR
 FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
 MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
 NATICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
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NO.	APP	DATE	DESCRIPTION
2	BEC	5/31/16	PER TOWN COMMENTS
1	BEC	5/19/16	PER TOWN COMMENTS

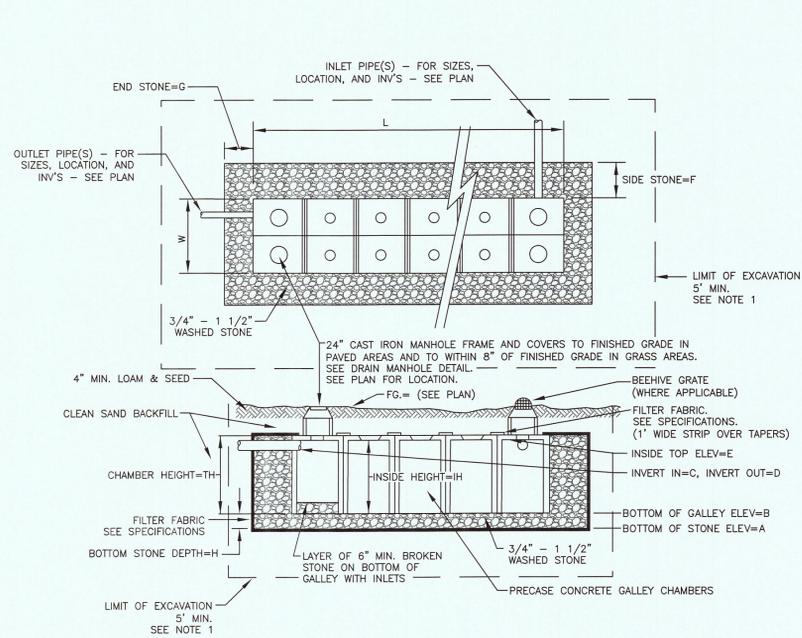
DATE: **MARCH 21, 2016**

SCALE: **AS SHOWN**

DRAFTED:	CHECKED:	APPROVED:
JAL/KMR	BEC	BEC

SITE DETAILS #2

SHEET: **15 OF 20**
 PROJECT NO.: **24800**
CE-15



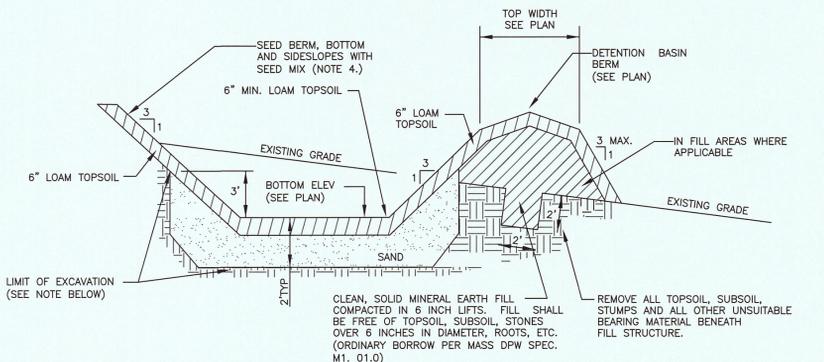
RECHARGER	A	B	C	D	E	F	G	H	L	W	TH	IH	MODEL FOR SIZING
3	246.5	247.0	248.5	248.4	249.5	2'	2'	6"	68'	12'	36"	30"	4x4x3
4	240.8	241.3	243.8	244.55	2'	2'	6"	58'	18'	51"	45"	4x4x4.25	

UNIT #3 = 3 ROWS OF 17 CHAMBERS (4' x 4' NOMINAL FOR EACH CHAMBER) SEE PLAN FOR LAYOUT AND DIMENSIONS

UNIT #4 = 4 ROWS OF 14 CHAMBERS (4' x 4' NOMINAL FOR EACH CHAMBER) SEE PLAN FOR LAYOUT AND DIMENSIONS

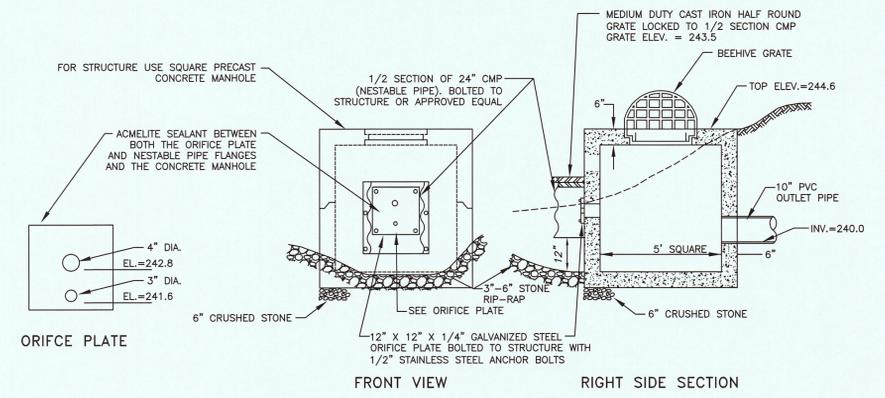
NOTES:
 1. ALL TOPSOIL, SUBSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW THE TOP ELEVATION OF THE LEACHING GALLEY, AND TO A DISTANCE OF 5 FEET FROM ALL SIDES OF THE LEACHING GALLEY. EXCAVATE DOWN TO 6 INCHES BELOW THE SURFACE OF THE NATURAL PERMEABLE SOIL. BACKFILL AS REQUIRED WITH CLEAN GRAVEL OR SANDFILL MATERIAL, FREE FROM FINES, CLAY, ORGANIC MATTER, AND LARGE BOULDERS, MEETING TITLE 5 SAND FILL SPECIFICATION 310 CMR 15.255.
 2. ALL WASHED STONE MUST HAVE LESS THAN 0.2 PERCENT MATERIAL FINER THAN A NUMBER 200 SIEVE AS DETERMINED BY THE A.A.S.T.H.O. TEST METHODS T-11 AND T-27 (LATEST EDITION).
 3. CONCRETE CHAMBERS SHALL BE DESIGNED FOR H-20 LOADING.

RECHARGER #3, #5 DETAIL
(NO SCALE)

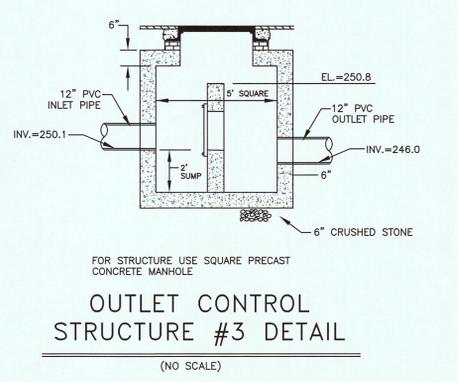


NOTES:
 1. REMOVE EXISTING TOPSOIL AND SUBSOIL TO THE ELEVATION OF THE FINISHED SUBGRADE BELOW THE PROPOSED LOAM. IF THE NATURAL MATERIAL MEETS THE REQUIREMENTS FOR "SAND" IN NOTE 2 BELOW OR LOAMY SAND IN NOTE 3 BELOW, THE EXCAVATION IS NOT NECESSARY. OTHERWISE REMOVE THE UNSUITABLE SOIL TO THE DEPTHS SHOWN AND BACKFILL WITH THE MATERIAL PER NOTE 2 OR 3.
 2. SAND SHALL CONSIST OF WELL DRAINING SOIL CONSISTING OF CLEAN SAND AND GRAVEL WITH LESS THAN 10% SILT AND CLAY WITH NOT MORE THAN 5 PERCENT CLAY. USDA TEXTURAL CLASS: ON-SITE SOIL MEETING THIS MAY BE USED.
 3. LOAMY SAND SHALL CONSIST OF WELL DRAINING MINERAL SOIL CONSISTING OF 80 TO 90 PERCENT FINE TO MEDIUM SAND, AND 10 TO 20 PERCENT SILT AND CLAY WITH NOT MORE THAN 5 PERCENT CLAY. USDA TEXTURAL CLASS:
 4. SEED MIX: NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS.
 5. SEE LANDSCAPE DRAWINGS FOR OTHER PLANTINGS.

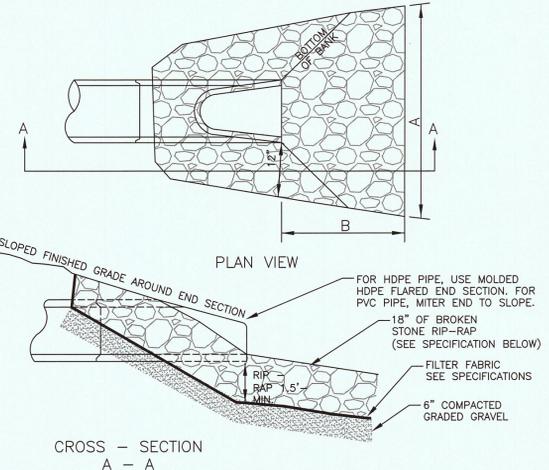
DETENTION BASIN #1 SECTION DETAIL
(NO SCALE)



OUTLET CONTROL STRUCTURE #1 DETAIL
(NO SCALE)



OUTLET CONTROL STRUCTURE #3 DETAIL
(NO SCALE)

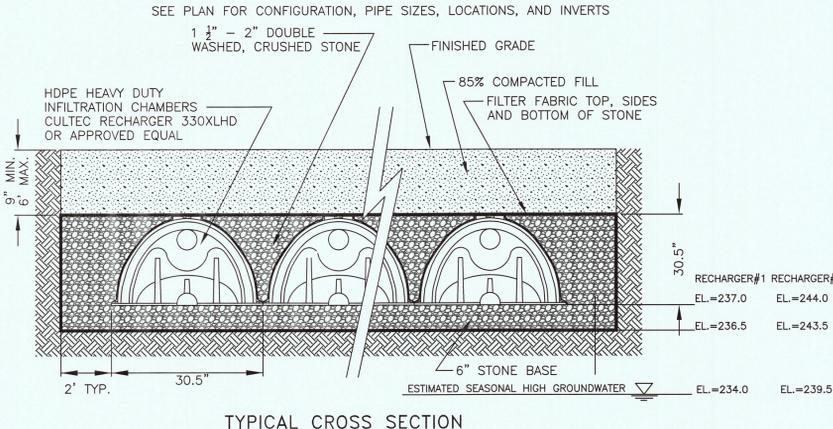


PIPE END SECTION WITH RIP - RAP APRON DETAIL
(NO SCALE)

NOTE:
 RIP-RAP SHALL CONSIST OF EVENLY GRADED 6" TO 9" ANGULAR BROKEN STONE (AVG. STONE SIZE = 8") WITH A THICKNESS OF 18 INCHES. NOT MORE THAN 15 PERCENT OF THE STONE MAY BE SCATTERED SPALLS AND STONES LESS THAN 4" IN SIZE.
 SIZE DESIGNATION REFERS TO MEAN SPHERICAL DIAMETER.

PIPE SIZE (IN.)	A (MIN.)	B (MIN.)
12" OR LESS	6'	5'
15"	10'	6'

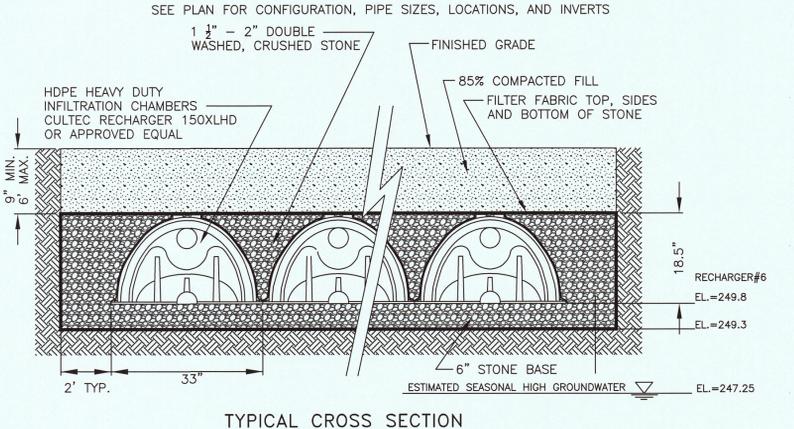
LENGTH OF RIP-RAP TO BE PER THIS DETAIL UNLESS OTHERWISE SHOWN ON THE PLANS.



TYPICAL CROSS SECTION
(NO SCALE)

NOTES:
 1. CONFIGURATION SHOWN IS BASED ON RECHARGER 330XLHD BY CULTEC, INC. OF BROOKFIELD, CT. SIMILAR PRODUCTS BY OTHER MANUFACTURERS MAY REQUIRE DIFFERENT CONFIGURATION FOR EQUAL FUNCTION.
 2. VOLUME CALCULATIONS BASED ON 40% STONE VOID.
 3. ALL INFILTRATION UNITS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. REFER TO MANUFACTURER'S RECOMMENDED INSTALLATION GUIDES.
 4. INSTALL 2'x2'x2" THICK CONCRETE SPLASH PADS AT ALL INLETS.
 5. FILTER FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL.
 6. ALL TOPSOIL, SUBSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW THE TOP ELEVATION OF THE LEACHING GALLEY, AND TO A DISTANCE OF 5 FEET FROM ALL SIDES OF THE LEACHING GALLEY. EXCAVATE DOWN TO 6 INCHES BELOW THE SURFACE OF THE NATURAL PERMEABLE SOIL. BACKFILL AS REQUIRED WITH CLEAN GRAVEL OR SANDFILL MATERIAL, FREE FROM FINES, CLAY, ORGANIC MATTER, AND LARGE BOULDERS, MEETING TITLE 5 SAND FILL SPECIFICATION 310 CMR 15.255.
 7. ALL WASHED STONE MUST HAVE LESS THAN 0.2 PERCENT MATERIAL FINER THAN A NUMBER 200 SIEVE AS DETERMINED BY THE A.A.S.T.H.O. TEST METHODS T-11 AND T-27 (LATEST EDITION).

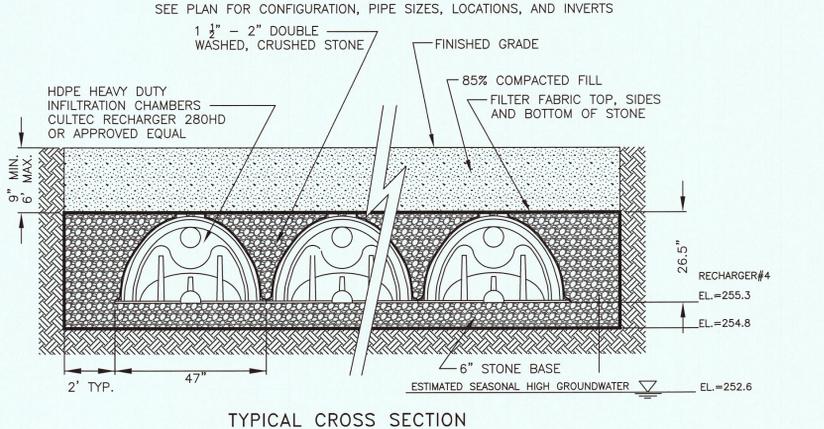
RECHARGER #1, #2 DETAIL
(NO SCALE)



TYPICAL CROSS SECTION
(NO SCALE)

NOTES:
 1. CONFIGURATION SHOWN IS BASED ON RECHARGER 150XLHD BY CULTEC, INC. OF BROOKFIELD, CT. SIMILAR PRODUCTS BY OTHER MANUFACTURERS MAY REQUIRE DIFFERENT CONFIGURATION FOR EQUAL FUNCTION.
 2. VOLUME CALCULATIONS BASED ON 40% STONE VOID.
 3. ALL INFILTRATION UNITS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. REFER TO MANUFACTURER'S RECOMMENDED INSTALLATION GUIDES.
 4. INSTALL 2'x2'x2" THICK CONCRETE SPLASH PADS AT ALL INLETS.
 5. FILTER FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL.
 6. ALL TOPSOIL, SUBSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW THE TOP ELEVATION OF THE LEACHING GALLEY, AND TO A DISTANCE OF 5 FEET FROM ALL SIDES OF THE LEACHING GALLEY. EXCAVATE DOWN TO 6 INCHES BELOW THE SURFACE OF THE NATURAL PERMEABLE SOIL. BACKFILL AS REQUIRED WITH CLEAN GRAVEL OR SANDFILL MATERIAL, FREE FROM FINES, CLAY, ORGANIC MATTER, AND LARGE BOULDERS, MEETING TITLE 5 SAND FILL SPECIFICATION 310 CMR 15.255.
 7. ALL WASHED STONE MUST HAVE LESS THAN 0.2 PERCENT MATERIAL FINER THAN A NUMBER 200 SIEVE AS DETERMINED BY THE A.A.S.T.H.O. TEST METHODS T-11 AND T-27 (LATEST EDITION).

RECHARGER #6 DETAIL
(NO SCALE)



TYPICAL CROSS SECTION
(NO SCALE)

NOTES:
 1. CONFIGURATION SHOWN IS BASED ON RECHARGER 280HD BY CULTEC, INC. OF BROOKFIELD, CT. SIMILAR PRODUCTS BY OTHER MANUFACTURERS MAY REQUIRE DIFFERENT CONFIGURATION FOR EQUAL FUNCTION.
 2. VOLUME CALCULATIONS BASED ON 40% STONE VOID.
 3. ALL INFILTRATION UNITS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. REFER TO MANUFACTURER'S RECOMMENDED INSTALLATION GUIDES.
 4. INSTALL 2'x2'x2" THICK CONCRETE SPLASH PADS AT ALL INLETS.
 5. FILTER FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL.
 6. ALL TOPSOIL, SUBSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED BELOW THE TOP ELEVATION OF THE LEACHING GALLEY, AND TO A DISTANCE OF 5 FEET FROM ALL SIDES OF THE LEACHING GALLEY. EXCAVATE DOWN TO 6 INCHES BELOW THE SURFACE OF THE NATURAL PERMEABLE SOIL. BACKFILL AS REQUIRED WITH CLEAN GRAVEL OR SANDFILL MATERIAL, FREE FROM FINES, CLAY, ORGANIC MATTER, AND LARGE BOULDERS, MEETING TITLE 5 SAND FILL SPECIFICATION 310 CMR 15.255.
 7. ALL WASHED STONE MUST HAVE LESS THAN 0.2 PERCENT MATERIAL FINER THAN A NUMBER 200 SIEVE AS DETERMINED BY THE A.A.S.T.H.O. TEST METHODS T-11 AND T-27 (LATEST EDITION).

RECHARGER #4 DETAIL
(NO SCALE)

SITE PLAN REVIEW UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3 FRAMINGHAM PLANNING BOARD:

 DATE SIGNED: _____

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
ENGINEERING ♦ SURVEYING ♦ PLANNING ♦ GIS

1071 WORCESTER ROAD
FRAMINGHAM, MA 01701
508-879-0030
www.schofieldbros.com

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NO.	APP	DATE	DESCRIPTION
2	BEC	5/31/16	PER TOWN COMMENTS
1	BEC	5/19/16	PER TOWN COMMENTS

DATE: **MARCH 21, 2016**

SCALE: **AS SHOWN**

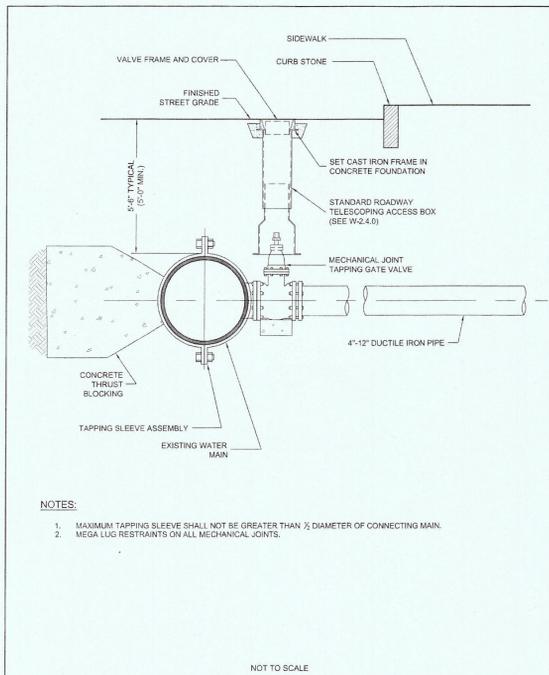
DRAFTED: JAL/KMR	CHECKED: BEC	APPROVED: BEC
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SITE DETAILS #4

SHEET: 17 OF 20
PROJECT NO.: 24800

CE-17

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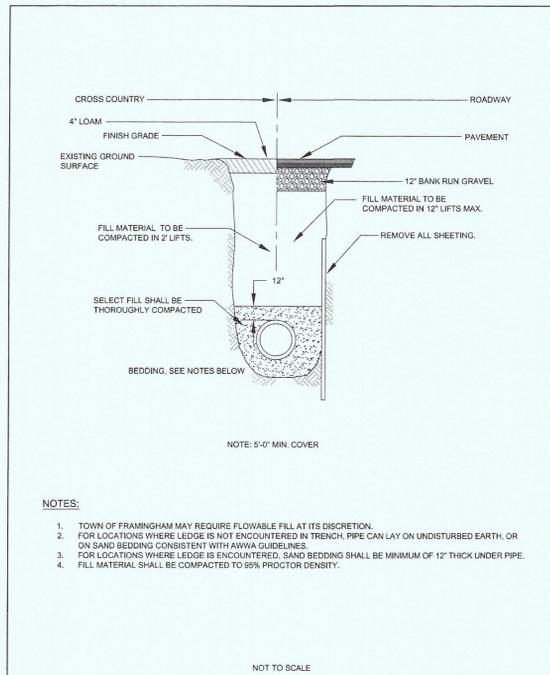
- NOTES:
1. MAXIMUM TAPPING SLEEVE SHALL NOT BE GREATER THAN 1/2 DIAMETER OF CONNECTING MAIN.
 2. MEGA LUG RESTRAINTS ON ALL MECHANICAL JOINTS.

NOT TO SCALE

TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS	TYPICAL CONNECTION (TAPPING SLEEVE)	DATE: FEB. 2010	DETAIL NO.
		REV: 1	W-2.1.2

TYPICAL CONNECTION (TAPPING SLEEVE)

SOURCE: TOWN OF FRAMINGHAM



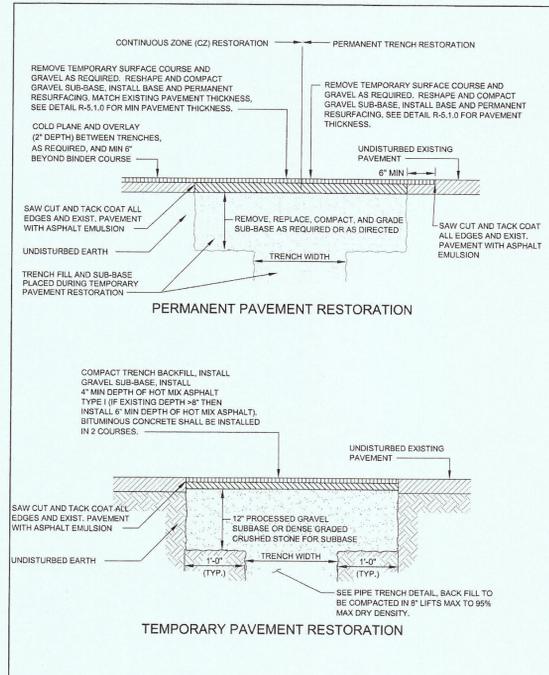
- NOTES:
1. TOWN OF FRAMINGHAM MAY REQUIRE FLOWABLE FILL AT ITS DISCRETION.
 2. FOR LOCATIONS WHERE LEDGE IS NOT ENCOUNTERED IN TRENCH, PIPE CAN LAY ON UNDISTURBED EARTH, OR ON SAND BEDDING CONSISTENT WITH AWWA GUIDELINES.
 3. FOR LOCATIONS WHERE LEDGE IS ENCOUNTERED, SAND BEDDING SHALL BE MINIMUM OF 12" THICK UNDER PIPE.
 4. FILL MATERIAL SHALL BE COMPACTED TO 95% PROCTOR DENSITY.

NOT TO SCALE

TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS	WATER MAIN TRENCH DETAIL	DATE: MARCH 2011	DETAIL NO.
		REV: 2	W-2.3.0

WATER MAIN TRENCH DETAIL

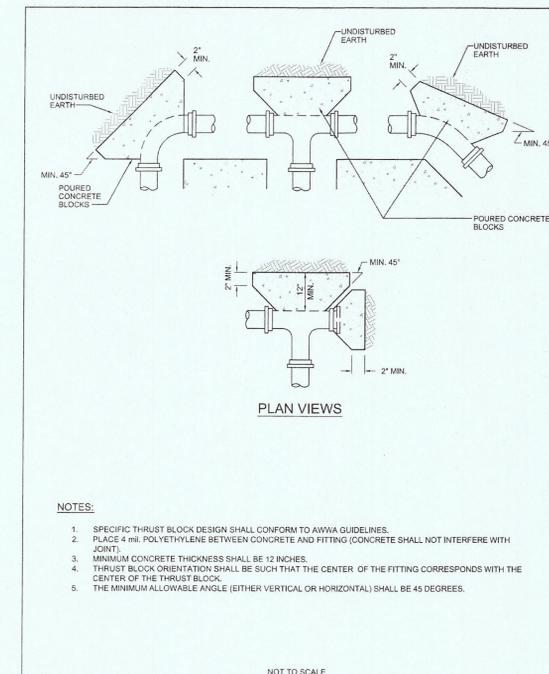
SOURCE: TOWN OF FRAMINGHAM



TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS	PAVEMENT DETAILS FOR TRENCH RESTORATION	DATE: MARCH 2011	DETAIL NO.
		REV: 1	R-5.1.7

PAVEMENT DETAILS FOR TRENCH RESTORATION

SOURCE: TOWN OF FRAMINGHAM



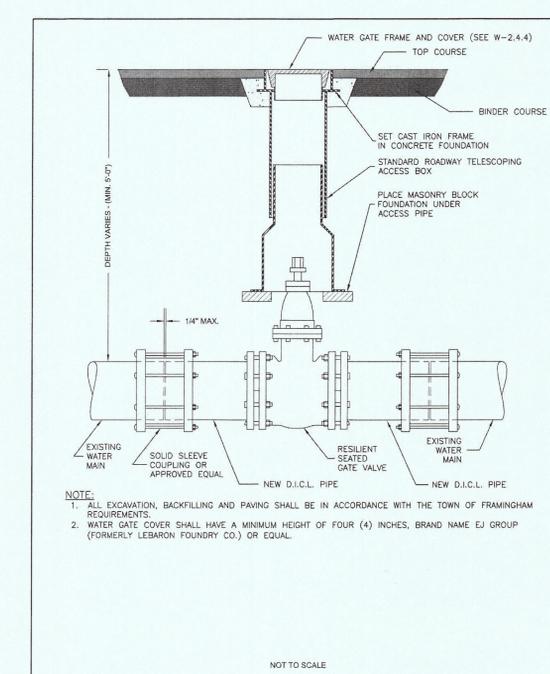
- NOTES:
1. SPECIFIC THRUST BLOCK DESIGN SHALL CONFORM TO AWWA GUIDELINES.
 2. PLACE 4 mil. POLYETHYLENE BETWEEN CONCRETE AND FITTING (CONCRETE SHALL NOT INTERFERE WITH JOINT).
 3. MINIMUM CONCRETE THICKNESS SHALL BE 12 INCHES.
 4. THRUST BLOCK ORIENTATION SHALL BE SUCH THAT THE CENTER OF THE FITTING CORRESPONDS WITH THE CENTER OF THE THRUST BLOCK.
 5. THE MINIMUM ALLOWABLE ANGLE (EITHER VERTICAL OR HORIZONTAL) SHALL BE 45 DEGREES.

NOT TO SCALE

TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS	TYPICAL THRUST BLOCK DETAIL	DATE: SEPT. 2009	DETAIL NO.
		REV: 0	W-2.2.2

TYPICAL THRUST BLOCK DETAIL

SOURCE: TOWN OF FRAMINGHAM



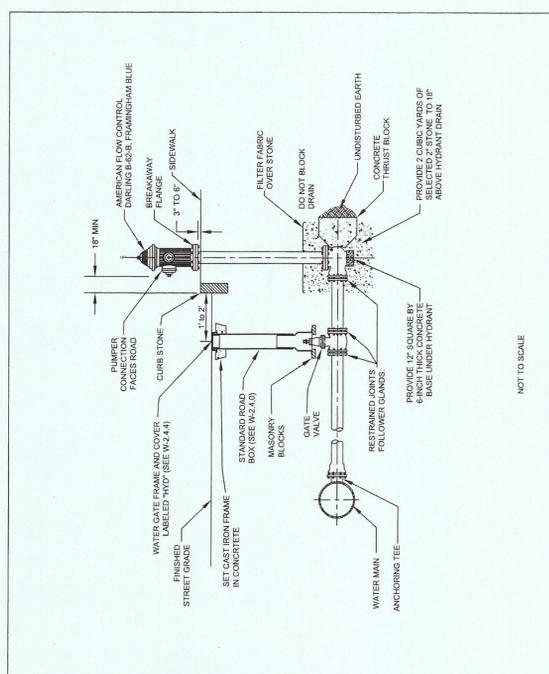
- NOTE:
1. ALL EXCAVATION, BACKFILLING AND PAVING SHALL BE IN ACCORDANCE WITH THE TOWN OF FRAMINGHAM REQUIREMENTS.
 2. WATER GATE COVER SHALL HAVE A MINIMUM HEIGHT OF FOUR (4) INCHES, BRAND NAME EJ GROUP (FORMERLY LEBARON FOUNDRY CO.) OR EQUAL.

NOT TO SCALE

TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS	GATE VALVE	DATE: MARCH 2013	DETAIL NO.
		REV: 2	W-2.4.0

GATE VALVE

SOURCE: TOWN OF FRAMINGHAM



TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS	FIRE HYDRANT INSTALLATION	DATE: AUGUST 2015	DETAIL NO.
		REV: 3	W-2.5.0

FIRE HYDRANT

SOURCE: TOWN OF FRAMINGHAM

SITE PLAN REVIEW
UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
FRAMINGHAM PLANNING BOARD:

DATE SIGNED:

RCS LEARNING CENTER

82 EDMANDS ROAD
874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

RCS BEHAVIORAL & EDUCATIONAL CONSULTING, LLC

6 STRATHMORE ROAD
NATICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
ENGINEERING ♦ SURVEYING ♦ PLANNING ♦ GIS

1071 WORCESTER ROAD
FRAMINGHAM, MA 01701
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Bert Corey
5/31/16

NO.	APP	DATE	DESCRIPTION
2	BEC	5/31/16	PER TOWN COMMENTS
1	BEC	5/19/16	PER TOWN COMMENTS

DATE: **MARCH 21, 2016**

SCALE: **AS SHOWN**

DRAFTED: JAL/KMR	CHECKED: BEC	APPROVED: BEC
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SITE DETAILS #5

SHEET:
18 OF 20

PROJECT NO.:
24800

CE-18

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SITE PLAN REVIEW
 UNDER SECTIONS VI.F.2.b.1 and VI.F.2.b.3
 FRAMINGHAM PLANNING BOARD:

DATE SIGNED:

**RCS
 LEARNING
 CENTER**

82 EDMANDS ROAD
 874 EDGELL ROAD RR
 FRAMINGHAM, MASSACHUSETTS 01701

ASSESSORS: MAP 372, BLOCK, 120 LOT 31
 MAP 372, BLOCK, 120 LOT 32

PREPARED FOR:

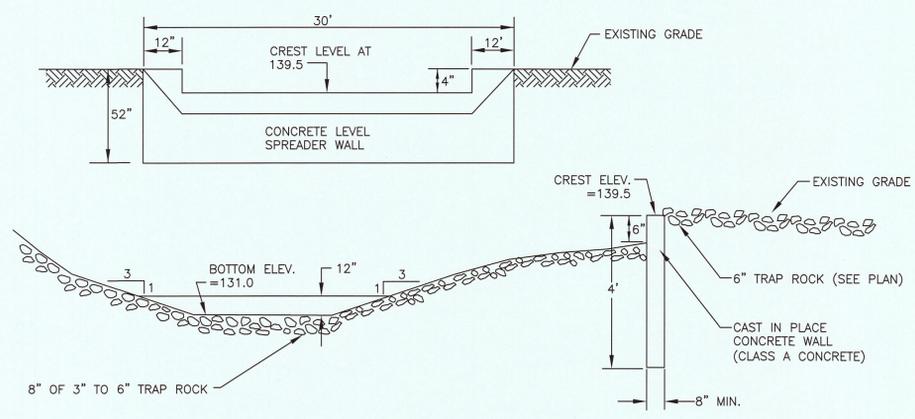
**RCS BEHAVIORAL
 & EDUCATIONAL
 CONSULTING, LLC**

6 STRATHMORE ROAD
 NATTICK, MASSACHUSETTS 01760

SCHOFIELD BROTHERS LLC
 ENGINEERING ♦ SURVEYING ♦ PLANNING ♦ GIS

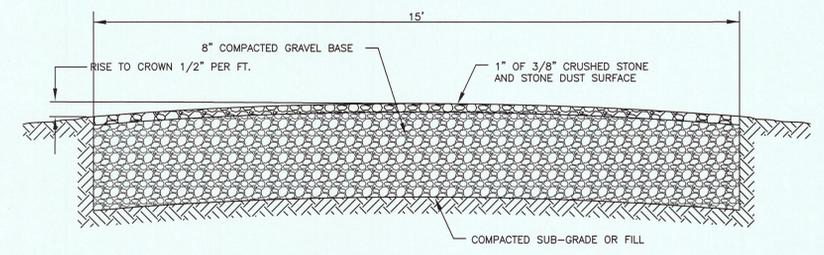
1071 WORCESTER ROAD
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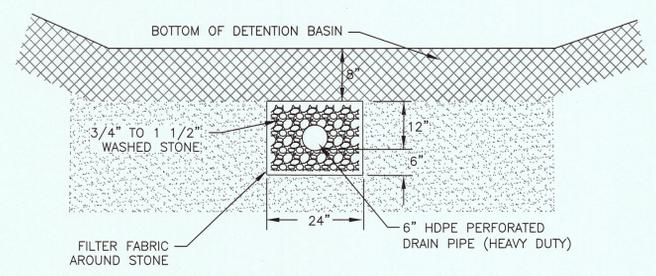


NOTE:
 TRAP ROCK SHALL CONSIST OF EVENLY GRADED 6" TO 9" ANGULAR BROKEN STONE WITH NO MORE THAN 15% SCATTERED SPALLS LESS THAN 3" IN SIZE AND FREE OF FINES. SIZE DIMENSIONS REFER TO MEAN SPHERICAL DIAMETER.

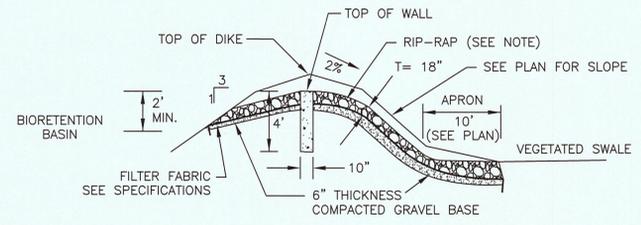
LEVEL SPREADER AND TRAP ROCK OUTFALL
 (NO SCALE)



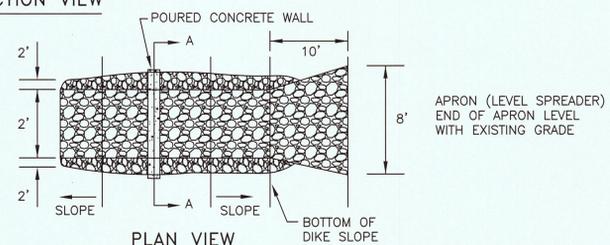
MAINTENANCE ACCESS
 (NO SCALE)



DETENTION BASIN SUBDRAIN
 (NO SCALE)

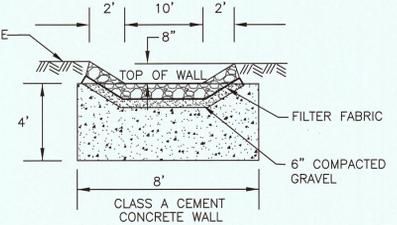


SECTION VIEW



PLAN VIEW

NOTES:
 1. RIP-RAP SHALL CONSIST OF EVENLY GRADED 6" TO 10" ANGULAR BROKEN STONE AN AVERAGE STONE SIZE OF 8", 15 PERCENT OF THE STONE MAY BE SCATTERED SPALLS AND STONES NOT LESS THAN 3" IN SIZE. SIZE DESIGNATION REFERS TO MEAN SPHERICAL DIAMETER.



SECTION A-A

SPILLWAY DETAIL
 (NO SCALE)

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NO.	APP.	DATE	DESCRIPTION
2	BEC	5/31/16	PER TOWN COMMENTS
1	BEC	5/19/16	PER TOWN COMMENTS

DATE: **MARCH 21, 2016**

SCALE: **AS SHOWN**

DRAFTED: **JAL/KMR** CHECKED: **BEC** APPROVED: **BEC**

SITE DETAILS #7

SHEET: **20 OF 20**
 PROJECT NO.: **24800**
CE-20



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770

Planting Notes

- ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL BELOW GRADE AND ABOVE GROUND UTILITIES AND NOTIFY OWNERS REPRESENTATIVE OF CONFLICTS.
- NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. CONTRACTOR SHALL NOTIFY OWNERS REPRESENTATIVE OF ANY CONFLICT.
- A 3-INCH DEEP MULCH PER SPECIFICATION SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED ON THE PLANS, OR AS DIRECTED BY OWNERS REPRESENTATIVE.
- ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR SPECIFICATION, OR APPROVED BY THE OWNERS REPRESENTATIVE.
- FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS GRAPHICALLY SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLANT LIST AND PLANT LABELS PRIOR TO BIDDING.
- ANY PROPOSED PLANT SUBSTITUTIONS MUST BE REVIEWED BY LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
- ALL PLANT MATERIALS INSTALLED SHALL MEET THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND CONTRACT DOCUMENTS.
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
- AREAS DESIGNATED "LOAM & SEED" SHALL RECEIVE MINIMUM 6" OF LOAM AND SPECIFIED SEED MIX. LAWNS OVER 2:1 SLOPE SHALL BE PROTECTED WITH EROSION CONTROL FABRIC.

- ALL DISTURBED AREAS NOT OTHERWISE NOTED ON CONTRACT DOCUMENTS SHALL BE LOAM AND SEED OR MULCHED AS DIRECTED BY OWNERS REPRESENTATIVE.
- THIS PLAN IS INTENDED FOR PLANTING PURPOSES. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.
- MULCH TO BE PLACED IN SHRUB BEDS SHALL BE NO GREATER THAN 12" FROM THE DRIP LINE.
- REPLACE EXISTING SOIL IN SHRUB BEDS WITH TOPSOIL TO A DEPTH OF 24" MINIMUM.
- PLANT MATERIAL TYPES, QUANTITIES AND LOCATIONS SHALL NOT BE MODIFIED EXCEPT WITH PERMISSION OF THE PLANNING BOARD, DURING INITIAL INSTALLATION.
- EXISTING SOIL (TOPSOIL) SHOULD BE REUSED AS MUCH AS POSSIBLE. LOAM BORROW SHOULD ONLY BE BROUGHT IN AS NEEDED. BOTH TOPSOIL AND LOAM BORROW SHOULD BE TESTED BY A UNIVERSITY AGRICULTURAL LAB, SUCH AS UMASS SOIL TESTING LAB, TO DETERMINE IF IT NEEDS AMENDMENTS. LAB SHOULD PROVIDE RECOMMENDATIONS FOR AMENDMENTS BASED UPON PLANTING TYPE, EVERGREEN, DECIDUOUS, LAWN, ETC.
- REMOVE SOIL FROM TRUNK FLARES OF TREES AND STEMS OF SHRUBS TO DETERMINE ACTUAL TOP OF ROOTBALL AREA.
- FERTILIZE AS NEEDED PER RECOMMENDATIONS OF SOIL TESTING LAB.
- THERE IS A 2-YEAR GUARANTEE REQUIRED.
- TREES AND SHRUBS SHALL BE B&B OR CONTAINER - NO BARE ROOT.
- SEEDING - LOAM AND TOPSOIL SHOULD BE 6" AFTER SETTLEMENT, MIN. FERTILIZE AND LIME PER SOIL TESTING LAB.
- DO NOT OVER-COMPACT PLANTING AREAS. IF AREAS BECOME COMPACTED, DISC TOP 4"-6" TO UNCOMPACT.

- LOAM - OBTAIN LABORATORY TEST FOR TOPSOIL AND LOAM BORROW, ASK FOR pH (6.5 TO 6.8 PREFERRED), BUFFER pH, ORGANIC MATTER (5 TO 10%), SOLUBLE SALTS AND SOIL TEXTURE.
- ADD MICORRHIZA SPORES IN PLANT BEDS AND PITS.
- TREES AND SHRUBS SHALL BE INSPECTED AT THE SOURCE NEW ENGLAND NURSERY AND TAGGED BY THE LANDSCAPE ARCHITECT.
- TREE PITS SHOULD BE FLOODED 2 TIMES IN SUCCESSION WITH WATER, AND EVALUATED FOR DRAINAGE CHARACTERISTICS AFTER A 24 HOUR PERIOD.
- CONTRACTOR SHOULD PLAN TO PROVIDE CLEAN POTABLE WATER, HOSES AND ALL EQUIPMENT TO WATER PLANTS.
- PLANTS SHOULD BE WATERED FROM TIME OF DELIVERY UNTIL ACCEPTANCE.
- GENERAL CONTRACTOR TO REMOVE EXISTING INVASIVE SPECIES ON SITE (NORWAY MAPLE, BUCKTHORN, KNOTWEED, ETC.) CONTROL OF INVASIVE SPECIES SHOULD BE MONITORED THROUGH REGULAR PERIODIC MAINTENANCE.
- GENERAL CONTRACTOR TO REMOVE ROOT BASKETS, BURLAP, WRAPS AND TIES ENTIRELY AND DISCARD.
- GENERAL CONTRACTOR TO UTILIZE STRAW FOR EROSION CONTROL.
- THE INTENT OF THE SHRUB PLANTINGS ARE TO GROW INTO MASSES FOR SCREENING AND VISUAL INTEREST.

SHRUBS AND GROUNDCOVERS SHALL BE A SELECTION OF:

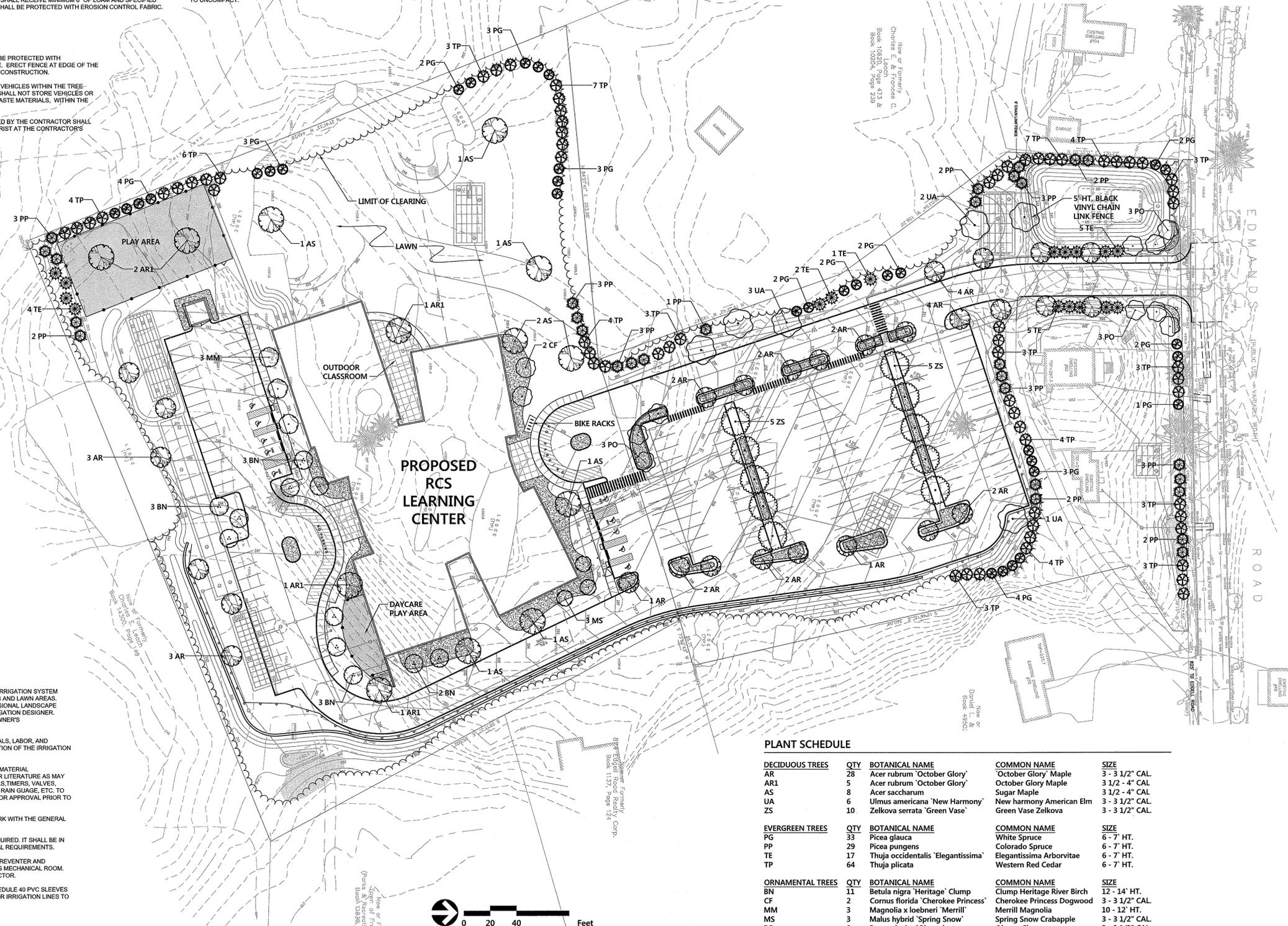
SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE
	Azalea x Renee Michelle	Renee Michelle Azalea	18 - 24" SPD
	Azalea x Del. Valley White	Del. Valley White Azalea	18 - 24" SPD
	Clethra alnifolia 'Hummingbird'	'Hummingbird' Summersweet	2 - 2 1/2' HT.
	Fothergilla gardenii	Dwarf Fothergilla/	18 - 24" HT.
	Ilex glabra 'Shamrock'	Shamrock Inkberry	2 - 2 1/2' HT.
	Kalmia latifolia	Mountain Laurel	#2 POT
	Leucothoe fontanesiana	Drooping Leucothoe	2 - 2 1/2' HT.
	Myrica pensylvanica	Northern Bayberry	18 - 24" SPD
	Pieris japonica 'Brouwer's Beauty'	Lily of the Valley Bush	18 - 24" SPD
	Spiraea japonica 'Little Princess'	Little Princess Spiraea	2 - 2 1/2' HT.
	Viburnum plicatum tomentosum	'Shasta' Shasta Viburnum	2 - 2 1/2' HT.

ORNAMENTAL GRASSES	BOTANICAL NAME	COMMON NAME	SIZE
	Pennisetum alopecuroides 'Hamel'	Hamel Dwarf Fountain Grass	#2 POT
	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue	#1 POT

GROUND COVERS	BOTANICAL NAME	COMMON NAME	SIZE
	Hosta sieboldiana 'Elegans'	Elegans Plantain Lily	#1 POT
	Hemerocallis x 'Happy Returns'	Happy Returns Daylily	#1 POT
	Hemerocallis x 'Rosy Returns'	Rosy Returns Daylily	#1 POT
	Pachysandra terminalis	Japanese Spurge	flats of 30
	Vinca minor	Common Periwinkle	flats of 30

Tree Protection

- EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY CONSTRUCTION FENCE. ERECT FENCE AT EDGE OF THE TREE DRIFLINE PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL NOT OPERATE VEHICLES WITHIN THE TREE PROTECTION AREA. CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS, OR DISPOSE OF ANY WASTE MATERIALS, WITHIN THE TREE PROTECTION AREA.
- DAMAGE TO EXISTING TREES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY A CERTIFIED ARBORIST AT THE CONTRACTOR'S EXPENSE.



PLANT SCHEDULE

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AR	28	Acer rubrum 'October Glory'	'October Glory' Maple	3 - 3 1/2" CAL.
AR1	5	Acer rubrum 'October Glory'	October Glory Maple	3 1/2 - 4" CAL.
AS	8	Acer saccharum	Sugar Maple	3 1/2 - 4" CAL.
UA	6	Ulmus americana 'New Harmony'	New harmony American Elm	3 - 3 1/2" CAL.
ZS	10	Zelkova serrata 'Green Vase'	Green Vase Zelkova	3 - 3 1/2" CAL.

EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
PG	33	Picea glauca	White Spruce	6 - 7' HT.
PP	29	Picea pungens	Colorado Spruce	6 - 7' HT.
TE	17	Thuja occidentalis 'Elegantissima'	Elegantissima Arborvitae	6 - 7' HT.
TP	64	Thuja plicata	Western Red Cedar	6 - 7' HT.

ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
BN	11	Betula nigra 'Heritage' Clump	Clump Heritage River Birch	12 - 14' HT.
CF	2	Cornus florida 'Cherokee Princess'	Cherokee Princess Dogwood	3 - 3 1/2" CAL.
MM	3	Magnolia x loebneri 'Merrill'	Merrill Magnolia	10 - 12' HT.
MS	3	Malus hybrid 'Spring Snow'	Spring Snow Crabapple	3 - 3 1/2" CAL.
PO	9	Prunus incisa 'Okame'	Okame Cherry	3 - 3 1/2" CAL.

Irrigation Notes

- CONTRACTOR SHALL PROVIDE COMPLETE IRRIGATION SYSTEM DESIGN AND INSTALLATION FOR PLANTINGS AND LAWN AREAS. DESIGN SHALL BE CERTIFIED BY A PROFESSIONAL LANDSCAPE ARCHITECT, ENGINEER, OR CERTIFIED IRRIGATION DESIGNER. DESIGN PLANS SHALL BE SUBMITTED TO OWNERS REPRESENTATIVE FOR APPROVAL.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF THE IRRIGATION SYSTEM.
- CONTRACTOR SHALL PROVIDE DRAWINGS, MATERIAL SPECIFICATIONS, SCHEMATICS, AND OTHER LITERATURE AS MAY BE REQUIRED, FOR ALL CONDUIT, CONTROLS, TIMERS, VALVES, SPRINKLER HEADS, CONNECTORS, WIRING, RAIN GAUGE, ETC. TO THE OWNER'S CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND SUB CONTRACTORS.
- BACKFLOW PREVENTER AND METER IS REQUIRED. IT SHALL BE IN CONFORMANCE WITH STATE AND MUNICIPAL REQUIREMENTS.
- IRRIGATION CONTROL PANEL, BACKFLOW PREVENTER AND METER SHALL BE LOCATED IN THE BUILDING MECHANICAL ROOM. COORDINATE WITH THE GENERAL CONTRACTOR.
- SITE CONTRACTOR SHALL PROVIDE 4" SCHEDULE 40 PVC SLEEVES UNDER PAVEMENT TO PROVIDE ACCESS FOR IRRIGATION LINES TO ALL IRRIGATED AREAS.

RCS Learning Center

82 Edmonds Road
Framingham, Massachusetts

No.	Revision	Date	Appr.
1	PER TOWN COMMENTS	5/31/2016	

Designed by	Checked by
Issued for	Date
	May 19, 2016

Not Approved for Construction

Planting Plan

Drawing Number

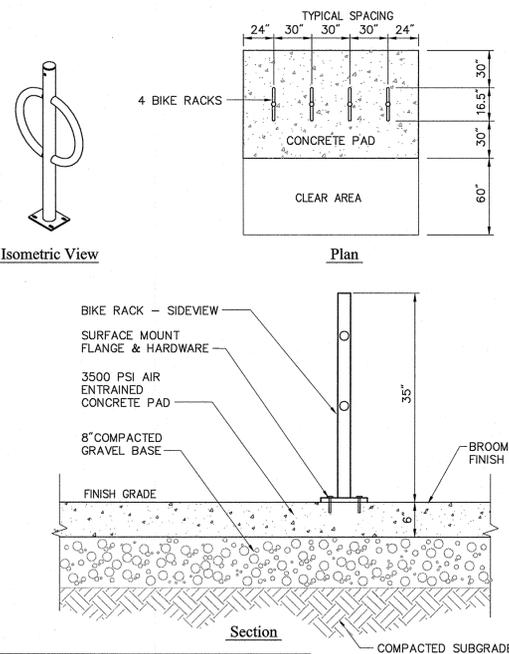
Professional Seal: MASSACHUSETTS LANDSCAPE ARCHITECT NO. 6561

5/31/16

Project Number: 13336.00

L-1

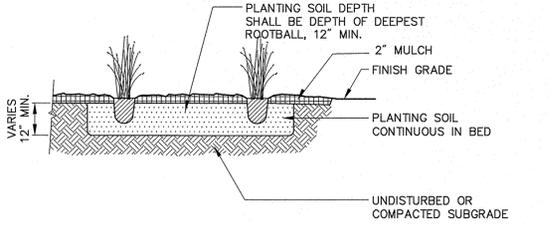
Sheet 1 of 2



Note:
1. BIKE RACKS TO BE "BIKE HITCH" AS MANUFACTURED BY DERO, MINNEAPOLIS, MN. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

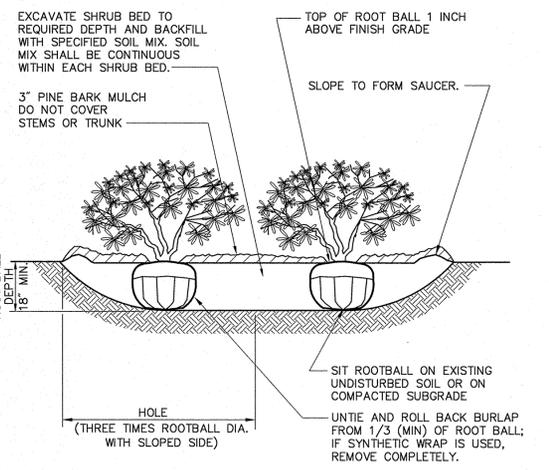
Bicycle Rack - Embedded
N.T.S. Source: VHB LD_618

PLANT SPACING ("A")	ROW SPACING ("B")
6 IN. O.C.	5 IN. O.C.
8 IN. O.C.	7 IN. O.C.
10 IN. O.C.	8-1/2 IN. O.C.
12 IN. O.C.	10-1/2 IN. O.C.
15 IN. O.C.	13 IN. O.C.
18 IN. O.C.	16 IN. O.C.



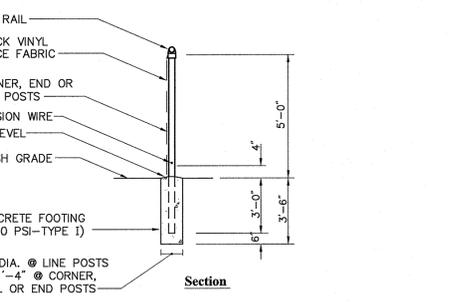
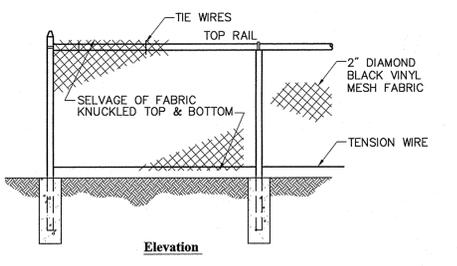
Note:
PLANTING SOIL DEPTH SHALL BE DEPTH OF DEEPEST ROOTBALL, 12" MIN.

Groundcover & Ornamental Grass Planting
N.T.S. Source: VHB LD_618



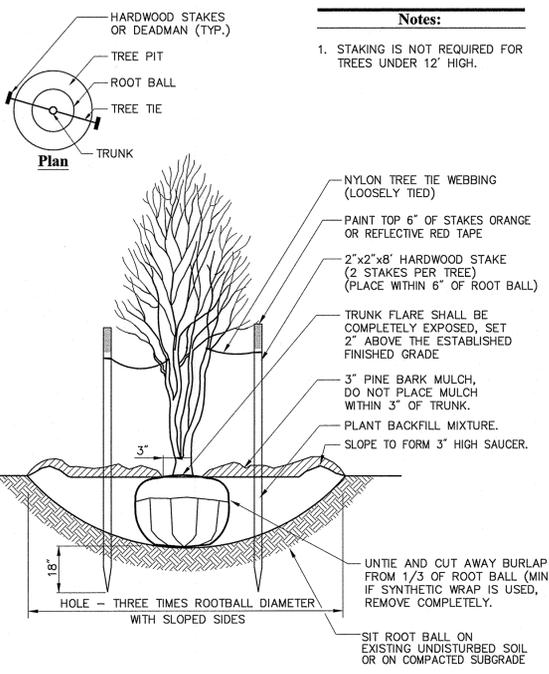
Notes:
1. LOOSEN ROOTS AT THE OUTER EDGE OF ROOTBALL OF CONTAINER GROWN SHRUBS.

Shrub Bed Planting
N.T.S. Source: VHB LD_601

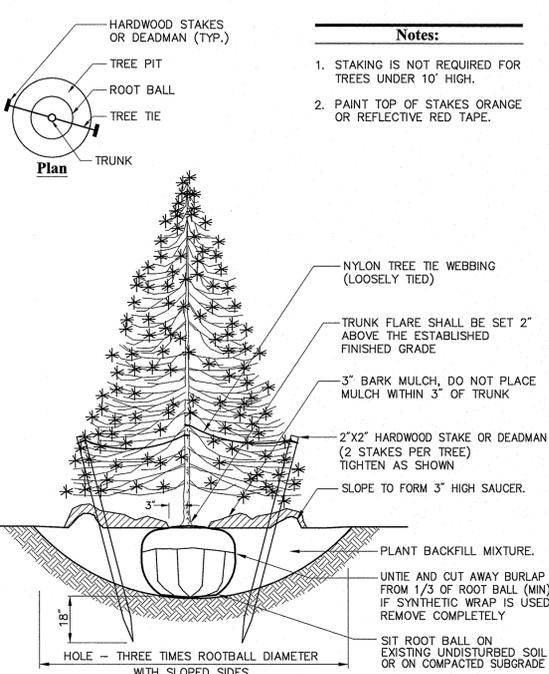


Note:
1. MATERIALS TO BE SUPPLIED AND INSTALLED IN CONFORMANCE WITH "CHAIN LINK MANUFACTURER'S INSTITUTE" PRODUCT MANUAL.
2. ALL POSTS, RAILS, MESH AND HARDWARE TO BE BLACK VINYL COATED.

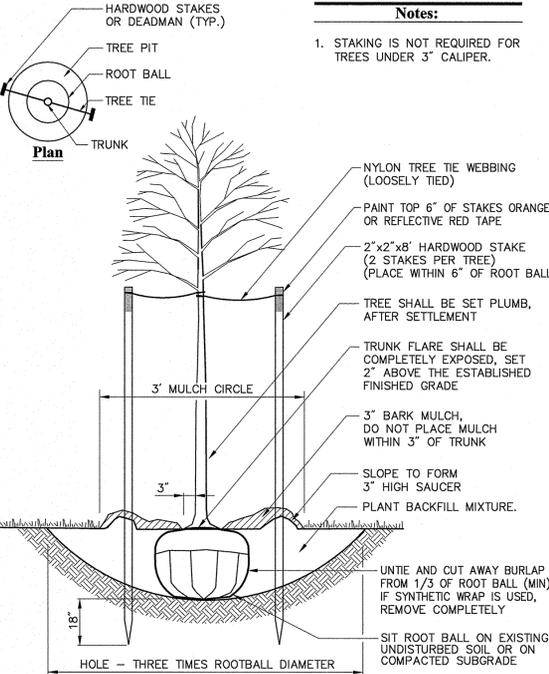
5' Ht. Black Vinyl Chain Link Fence
N.T.S. Source: VHB LD_481



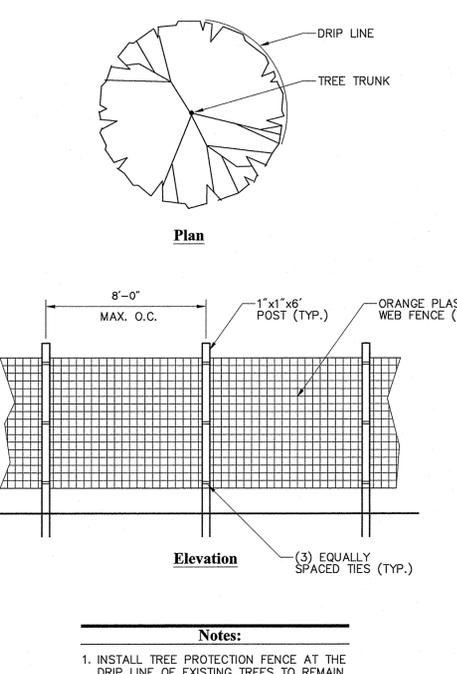
Multistem Tree Planting
N.T.S. Source: VHB LD_606



Evergreen Tree Planting
N.T.S. Source: VHB LD_604



Deciduous Tree Planting (For Trees Under 4" Caliper)
N.T.S. Source: VHB LD_602



Tree Protection Fence
N.T.S. Source: VHB LD_610

RCS Learning Center
82 Edmands Road
Framingham, Massachusetts

No.	Revision	Date	Apprd.
1	PER TOWN COMMENTS	5/31/2016	

Not Approved for Construction
Planting Details

6/31/16

Project Number: 13336.00



ELECTRICAL: Site Lighting Photometrics Plan

SCALE: 1"=30'-0"

Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage	Polar Plot
□	A	5	EASC_A2F550 WITH ELS-EASK-ABL-BLCK	Evolve LED Area Light - Scalable □ EASC	LED	1	4199	0.88	44	
□	B	1	EASC_D3F550 WITH ELS-EASK-DBL-BLCK	Evolve LED Area Light - Scalable □ EASC	LED	1	9301	0.88	82	
□ □	C	5	EASC_D3F550	EVOLVE AREA SCALABLE C	LED	1	9500	0.88	164	
□	D	1	EASC_D3F550	EVOLVE AREA SCALABLE C	LED	1	9500	0.88	82	
□	E	4	EASC_E4F550 WITH ELS-EASK-RBL-BLCK	Evolve LED Area Light - Scalable □ EASC	LED	1	12402	0.88	119	
□	F	2	EASC_E3F550	EVOLVE AREA SCALABLE C	LED	1	13900	0.88	119	
○	G	11	XBVR-ID-LED-24-400-NW-UE			1	1224	0.88	38	

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Area	+	1.9 fc	7.7 fc	0.1 fc	77.0:1	19.0:1
Property Line	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A

ALL POLES TO BE LOCATED 3 FEET FROM THE CURB MINIMUM

PROFESSIONAL SEAL:

REV	DATE	DESCRIPTION
1	5/31/2016	REVISION PER TOWN COMMENTS

PROJECT INFORMATION:

RCS LEARNING CENTER

82 EDMANDS ROAD / 874 EDGELL ROAD RR
 FRAMINGHAM, MASSACHUSETTS

DESIGN DELIVERABLE:
SITE LIGHTING COORDINATION

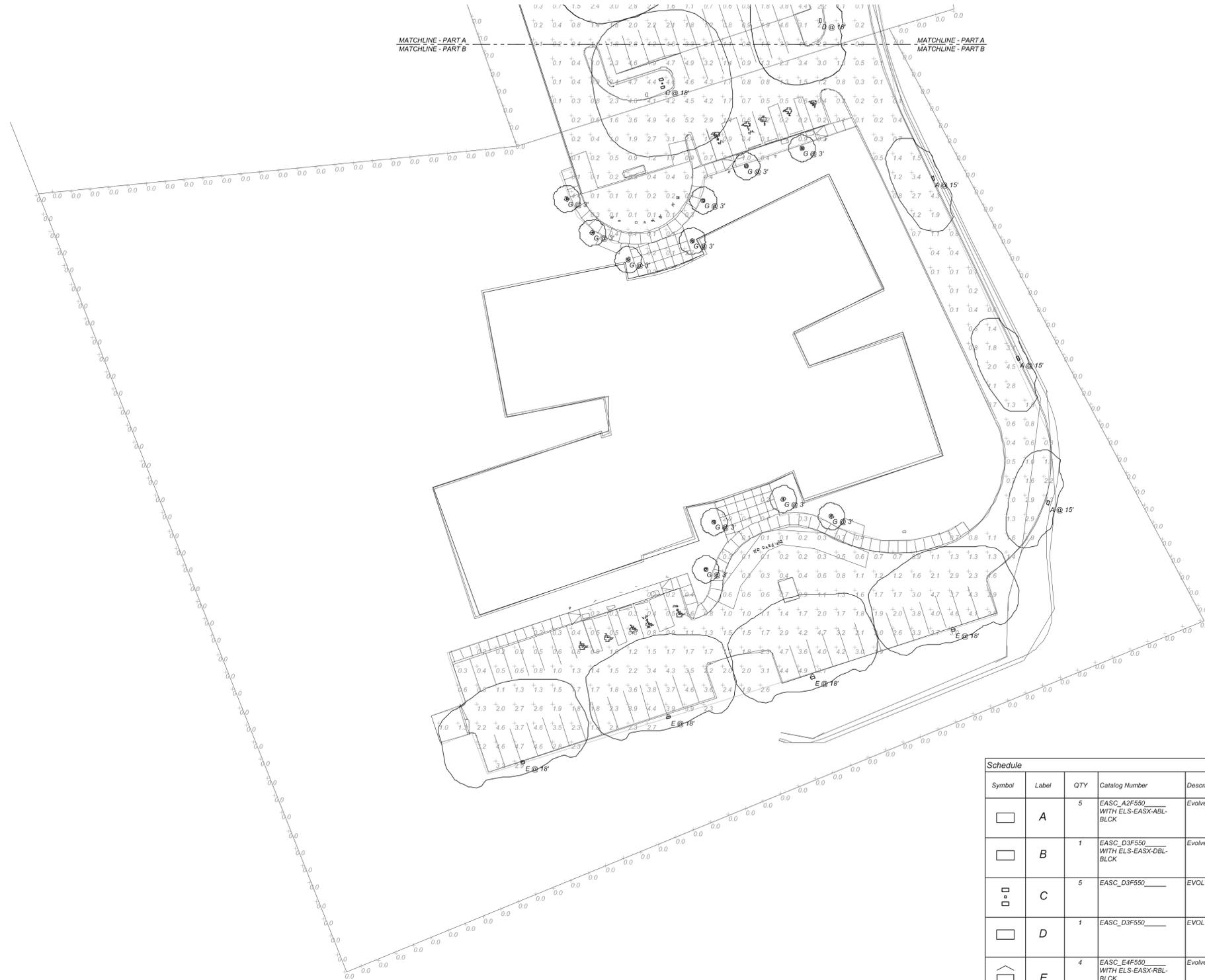
SCALE:
 1" = 30'-0"

DATE: 05/10/2016 PROJECT NUMBER: 16823

DRAWN BY: EP CHECKED BY: AMA

DRAWING NAME:
Electrical Site Plan Photometric Calculations Sheet - 1

SHEET NO:
E-001



ELECTRICAL: Site Lighting Photometrics Plan
SCALE: 1"=30'-0"

Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage	Polar Plot
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ALL POLES TO BE LOCATED 3 FEET FROM THE CURB MINIMUM

PROFESSIONAL SEAL:

REV	DATE	DESCRIPTION
1	5/31/2016	REVISION PER TOWN COMMENTS

PROJECT INFORMATION:
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82 EDMANDS ROAD / 874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS

DESIGN DELIVERABLE:
SITE LIGHTING COORDINATION

SCALE:
1" = 30'-0"

DATE: 05/10/2016 PROJECT NUMBER: 16823

DRAWN BY: EP CHECKED BY: AMA

DRAWING NAME:

**Electrical
Site Plan
Photometric Calculations
Sheet - 2**

SHEET NO:

E-002



ELECTRICAL: Site Lighting Photometrics Plan

SCALE: 1"=30'-0"

Schedule

Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage	Polar Plot
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○	G	11	XBVR-ID-LED-24-400-NW-UE			1	1224	0.88	38	

Statistics

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ALL POLES TO BE LOCATED 3 FEET FROM THE CURB MINIMUM

PROFESSIONAL SEAL:

REV	DATE	DESCRIPTION
1	5/31/2016	REVISION PER TOWN COMMENTS

PROJECT INFORMATION:

RCS LEARNING CENTER

82 EDMANDS ROAD / 874 EDGELL ROAD RR
 FRAMINGHAM, MASSACHUSETTS

DESIGN DELIVERABLE:
SITE LIGHTING COORDINATION

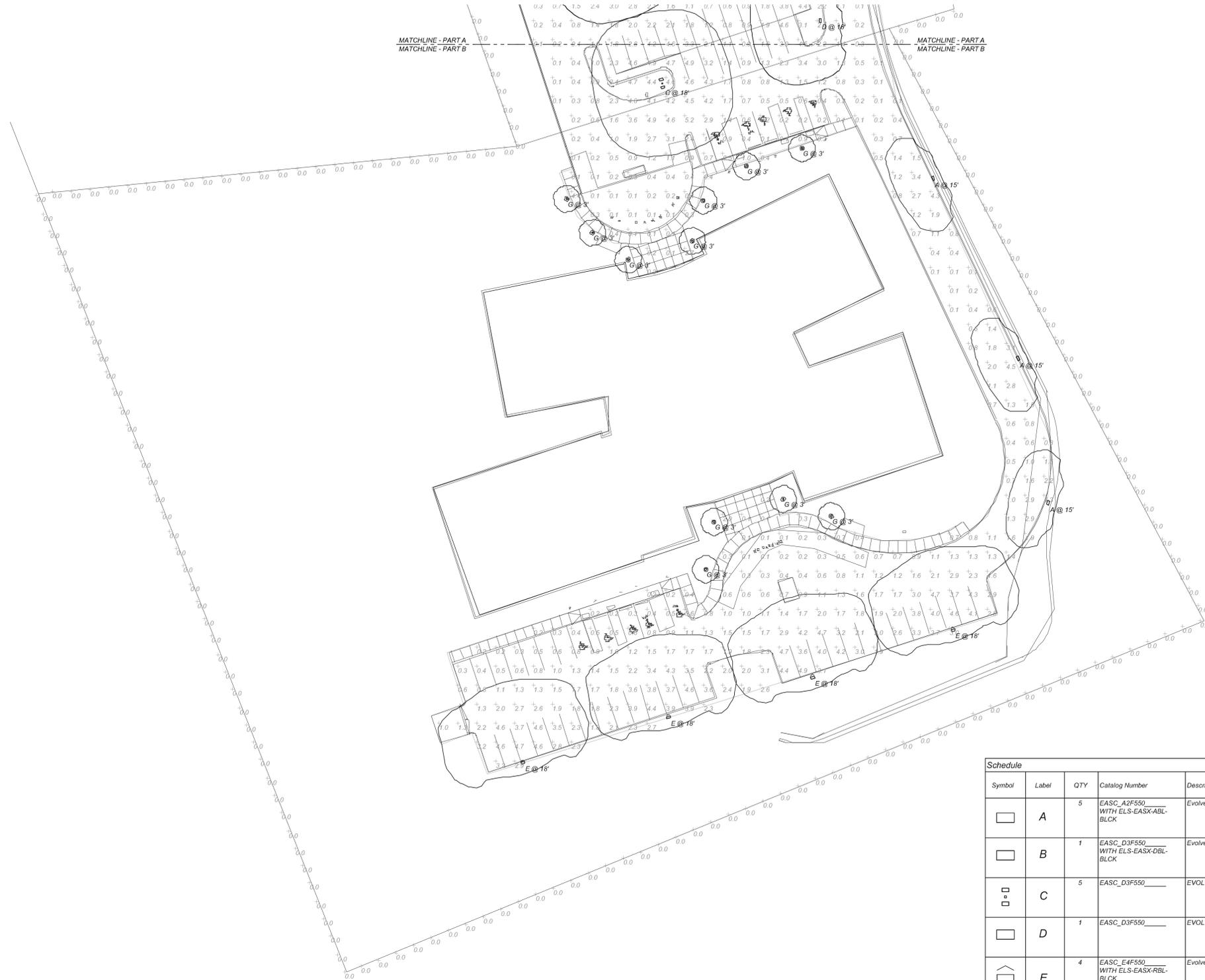
SCALE:
 1" = 30'-0"

DATE: 05/10/2016 PROJECT NUMBER: 16823

DRAWN BY: EP CHECKED BY: AMA

DRAWING NAME:
Electrical Site Plan Photometric Calculations Sheet - 1

SHEET NO:
E-001



ELECTRICAL: Site Lighting Photometrics Plan
SCALE: 1"=30'-0"

Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage	Polar Plot
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82 EDMANDS ROAD / 874 EDGELL ROAD RR
FRAMINGHAM, MASSACHUSETTS

DESIGN DELIVERABLE:
SITE LIGHTING COORDINATION

SCALE:
1" = 30'-0"

DATE: 05/10/2016 PROJECT NUMBER: 16823

DRAWN BY: EP CHECKED BY: AMA

DRAWING NAME:

**Electrical
Site Plan
Photometric Calculations
Sheet - 2**

SHEET NO:

E-002

Evolve™ LED Area Light

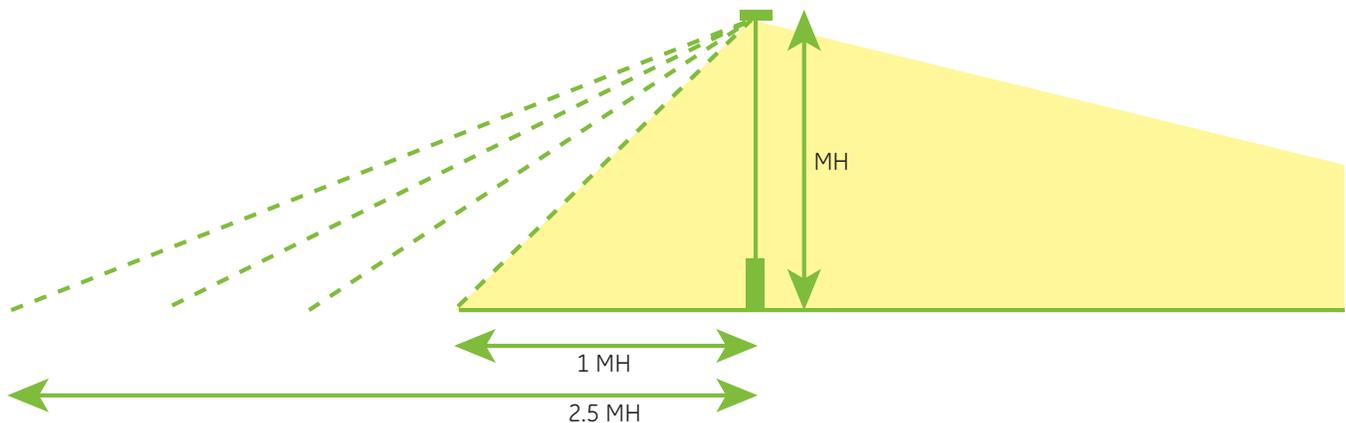
Shielding for EAS Area Light Fixtures

The next evolution of the GE Evolve™ LED Area Light delivers even better trespass control. GE's exclusive reflective optical ring design produces superior vertical illuminance and efficiently directs the light without wasteful and unwelcomed light spill into neighboring properties. Due to the extensive variation of parking lot configurations coupled with tightening ordinances, GE now offers a full array of shielding to accommodate challenging sites.

The shielding options available for the GE Evolve Area Light focus on the following applications:

- Left and Right cutoff
- Front cutoff
- Backlight control and B-U-G improvement

Within each of the shielding families, there are multiple shielding cutoff levels that are categorized in mounting height (MH) increments. GE accommodates cutoff distance from the pole from 1MH to 2.5 MH in 0.5 MH increments. The shields that are listed are for the most common applications. Please contact the manufacturer if your need is not listed.



All shields can be installed easily in the field. The next evolution of the GE Evolve LED Area Light and shielding options will help you meet any parking lot challenge.



EAS Shielded Fixture Examples



Single Module Left/Right Shield



Double Module Left/Right Shield



Single Module Front Shield



Double Module Front Shield



Single Module Back Shield



Double Module Back Shield

Type V Shielding

Shield Orientation	Cutoff Distance	Fixture Type	Shield Order Logic
Any Side	0.5	2 Module	ELS-EASX-MS1-BLCK
	1		ELS-EASX-MS2-BLCK
	1.5		ELS-EASX-MS3-BLCK
	2		ELS-EASX-MS4-BLCK
	2.5		ELS-EASX-MS5-BLCK
Any Side	0.5	2 Module	ELS-EASX-SS1-BLCK
	1		ELS-EASX-SS2-BLCK
	1.5		ELS-EASX-SS3-BLCK
	2		ELS-EASX-SS4-BLCK
	2.5		ELS-EASX-SS5-BLCK

Type IV Shielding

Shield Orientation	Cutoff Distance	Fixture Type	Shield Order Logic
Front	1	2 Module	ELS-EASX-FF2-BLCK
	1.5		ELS-EASX-FF3-BLCK
	2		ELS-EASX-FF4-BLCK
	2.5		ELS-EASX-FF5-BLCK
Front	1	1 Module	ELS-EASX-RF2-BLCK
	1.5		ELS-EASX-RF3-BLCK
	2		ELS-EASX-RF4-BLCK
	2.5		ELS-EASX-RF5-BLCK
Side	0.5	2 Module	ELS-EASX-FS1-BLCK
	1		ELS-EASX-FS2-BLCK
	1.5		ELS-EASX-FS3-BLCK
	2		ELS-EASX-FS4-BLCK
	2.5		ELS-EASX-FS5-BLCK
Side	0.5	1 Module	ELS-EASX-RS1-BLCK
	1		ELS-EASX-RS2-BLCK
	1.5		ELS-EASX-RS3-BLCK
	2		ELS-EASX-RS4-BLCK
	2.5		ELS-EASX-RS5-BLCK
Back	short	2 Module	ELS-EASX-FBN-BLCK
	long		ELS-EASX-FBL-BLCK
Back	long	1 Module	ELS-EASX-RBL-BLCK

Type III Shielding

Shield Orientation	Cutoff Distance	Fixture Type	Shield Order Logic	
Front	1	2 Module	ELS-EASX-WF2-BLCK	
	1.5		ELS-EASX-WF3-BLCK	
	2		ELS-EASX-WF4-BLCK	
	2.5		ELS-EASX-WF5-BLCK	
Front	1	1 Module	ELS-EASX-DF2-BLCK	
	1.5		ELS-EASX-DF3-BLCK	
	2		ELS-EASX-DF4-BLCK	
	2.5		ELS-EASX-DF5-BLCK	
Side	0.5	2 Module	ELS-EASX-WS1-BLCK	
	1		ELS-EASX-WS2-BLCK	
	1.5		ELS-EASX-WS3-BLCK	
	2		ELS-EASX-WS4-BLCK	
Side	2.5	2 Module	ELS-EASX-WS5-BLCK	
	0.5		1 Module	ELS-EASX-DS1-BLCK
	1			ELS-EASX-DS2-BLCK
	1.5			ELS-EASX-DS3-BLCK
2	ELS-EASX-DS4-BLCK			
Back	short	2 Module	ELS-EASX-WBN-BLCK	
	long		ELS-EASX-WBL-BLCK	
Back	long	1 Module	ELS-EASX-DBL-BLCK	

Type II Shielding

Shield Orientation	Cutoff Distance	Fixture Type	Shield Order Logic
Side	0.5	2 Module	ELS-EASX-NS1-BLCK
	1		ELS-EASX-NS2-BLCK
	1.5		ELS-EASX-NS3-BLCK
	2		ELS-EASX-NS4-BLCK
	2.5		ELS-EASX-NS5-BLCK
Side	0.5	1 Module	ELS-EASX-AS1-BLCK
	1		ELS-EASX-AS2-BLCK
	1.5		ELS-EASX-AS3-BLCK
	2		ELS-EASX-AS4-BLCK
	2.5		ELS-EASX-AS5-BLCK
Back	short	2 Module	ELS-EASX-NBN-BLCK
	long		ELS-EASX-NBL-BLCK
Back	long	1 Module	ELS-EASX-ABL-BLCK



www.gelighting.com

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OLP3083 (Rev 06/08/15)

GE
Lighting

Evolve™ LED Area Light

Scalable Area Light (EASC)



imagination at work

Product Features

The next evolution of the GE Evolve™ LED Area Light continues to deliver outstanding features, while adding greater flexibility, style and scalability. This latest design offers higher lumen outputs and provides photometric combinations with high efficacy, providing the ability to meet even a wider range of area lighting needs. Additionally, the new EASC Evolve Luminaire comes with a specially designed auto dealership optic for exceptional illuminance on the dealership's front row. Optional programmable motion sensing for Title 24 compliance is available.

Applications

- Site, area, and general lighting applications utilizing advanced LED optical system providing high uniformity, excellent vertical light distribution, reduced offsite visibility, reduced on-site glare and effective security light levels.
- Ideal for small to large retailers, commercial to medical properties, and big box retailers.

Housing

- Die-cast aluminum housing.
- Slim architectural design incorporates an integral heat sink and light engine, ensuring maximum heat transfer, long LED life, and a reduced Effective Projected Area (EPA).
- Meets 3G vibration standards per ANSI C136.31-2010 for Slipfitter and Mounting Arm configurations. Meets 1.5G vibration standards for Knuckle Slipfitter Mounting.

LED & Optical Assembly

- Structured LED arrays for optimized area light photometric distribution.
- Evolve light engine with directional reflectors designed to optimize application efficiency and minimize glare.
- Utilizes high brightness LEDs, 70 CRI at 4000K and 5000K typical.

Lumen Maintenance

Lumen Maintenance (25°C Ambient)				
Optical Code	Calculated		Calculated Hours	
	50,000 hr	100,000 hr	L70	L90
L5, V5, L4, L3, L2	0.98	0.95	>100,000	>100,000
LA	0.90	0.81	>100,000	49,000
All others	0.99	0.97	>100,000	>100,000

Lumen Maintenance per IES TM-21.

Ratings

-  listed, suitable for wet locations.
-  listed with option code "J" SKUs.
- IP65 rated optical enclosure per ANSI C136.25-2009.
- Temperature rated at -40° to 50°C (-40° to 35°C for fixtures over 390 watts).
- Upward Light Output Ratio (ULOR) = 0.
- Title 24 compliant with "H" motion sensor option.
- Compliant with the material restriction requirements of RoHS.
-  DLC Listed

Please refer to the DLC QPL website for the latest and most complete information.
www.designlights.org/QPL

Mounting

Option A

- 10-inch (254mm) mounting arm for square pole prewired with 24-inch (610mm) leads.

Option B

- 10-inch (254mm) mounting arm for round pole prewired with 24-inch (610mm) leads.

Option C

- Slipfitter mounting for 2 3/8-inch (60mm) O.D. pipe prewired with 24-inch (610mm) leads.

Option D

- 10-inch (254mm) mounting arm for round or square pole prewired with 24-inch (610mm) leads.

Option S

- Knuckle Slipfitter mounting for 2.3-3" O.D. pipe, pre-wired with 24-inch (610mm) leads.

Finish

- Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
- Standard colors: Black & Dark Bronze.
- RAL & custom colors available.

Electrical

- 120-277 volt and 347-480 volt available.
- System power factor is >90% and THD <20%.*
- Class "A" sound rating.
- Photo electric sensors (PE) available for all voltages.
- ANSI C136.41 dimmable PE receptacle is available making the unit "adaptive controls ready."
- Surge Protection Options:
For 120-277VAC and 347-480VAC per IEEE/ANSI C136.2-2015.
 - 6kV/3kA "Basic" surge protection, standard.
 - 10kV/5kA "Enhanced" surge protection available with R option.

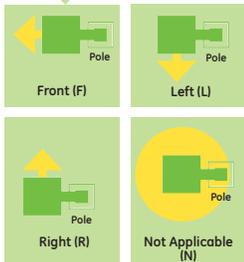
* System power factor and THD is tested and specified at 120V input and maximum load conditions.

Ordering Number Logic

Evolve™ LED Scalable Area Light (EASC)



EAS C

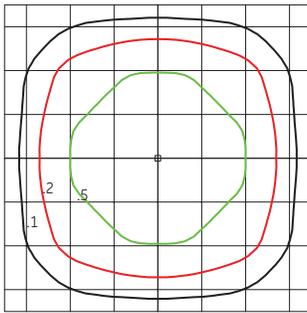
PROD. ID	PHOTOMETRIC	VOLTAGE	OPTICAL CODE	DISTRIBUTION ORIENTATION	DRIVE CURRENT	LED COLOR TEMP	PE FUNCTION	MOUNTING ARM	COLOR	OPTIONS
E = Evolve A = Area S = Scalable	C = Photometric Series	0 = 120 - 277 1 = 120* 2 = 208* 3 = 240* 4 = 277* 5 = 480* D = 347* H = 347-480 *Specify single voltage if fuse option is selected.	F = Front L = Left R = Right N = Not Applicable Light pattern thrown in direction specified in relation to Pole and Fixture. 	5 = 525mA 7 = 700mA* * Only select for product 395W or greater. 40 = 4000K 50 = 5000K	1 = None 2 = PE Rec. 4 = PE Rec. with Shorting Cap 5 = PE Rec. with Control** A = ANSI C136.41 7-pin dimming PE Receptacle †# D = ANSI C136.41 7-pin dimming PE Receptacle with Shorting Cap †# ** PE control not available for 347-480V. Must be a discrete voltage (347V or 480V). † When ordering PE function socket A-D, a dimming driver must also be ordered under the "OPTIONS" column. # Order Dimming/Control PE as a separate item.	A = 10" Arm for Square Pole supplied with leads B = 10" Arm for Round Pole supplied with leads C = EXT Slip-fitter 2" Pipe (2.378 in. OD) supplied with leads D = 10" Arm for round or square poles, supplied with leads and additional hardware S = Knuckle Slipfitter for 2.3 in. - 3.0 in. OD Tenon, supplied with leads. 0-45° vertical aiming angles achievable.	BLCK = Black DKBZ = Dark Bronze GRAY = Gray WHITE = White Contact manufacturer for other colors.	C = IEC D = Dimming (0-10 Volt Input) † F = Fusing H = Motion Sensor**# J = cUL/Canada R = 10kV Extra Surge Protection XXX = Special Options † Dimming leads will be provided through the back of the arm, unless specified with A or D PE Function. ** When ordering Motion Sensing Option H - "A" or "B" Mounting Arm must be selected. Fixture power increase of 1W expected with sensor use. # Dimming is standard with H option code. Do not also select D option. Not compatible with PE receptacle options A, or D.		

	OPTICAL CODE	TYPE	TYPICAL INITIAL LUMENS	TYPICAL SYSTEM WATTAGE	DISTRIBUTION ORIENTATION AVAILABLE	BUG RATING* 4000K & 5000K			IES FILE NUMBER			
						B	U	G	4000K	5000K		
TYPE V	D5	Symmetric Medium	8300	82	N	3	0	2	EASC_D5N540	.IES	EASC_D5N550	.IES
	E5	Symmetric Medium	12700	119	N	4	0	2	EASC_E5N540	.IES	EASC_E5N550	.IES
	F5	Symmetric Medium	15000	137	N	4	0	2	EASC_F5N540	.IES	EASC_F5N550	.IES
	G5	Symmetric Medium	17100	156	N	4	0	2	EASC_G5N540	.IES	EASC_G5N550	.IES
	H5	Symmetric Medium	21200	199	N	4	0	2	EASC_H5N540	.IES	EASC_H5N550	.IES
	J5	Symmetric Medium	25200	235	N	5	0	3	EASC_J5N540	.IES	EASC_J5N550	.IES
	K5	Symmetric Medium	30000	283	N	5	0	3	EASC_K5N540	.IES	EASC_K5N550	.IES
	L5	Symmetric Medium	38000	395	N	5	0	4	EASC_L5N740	.IES	EASC_L5N750	.IES
	N5	Symmetric Short	9200	82	N	3	0	1	EASC_N5N540	.IES	EASC_N5N550	.IES
	P5	Symmetric Short	13800	119	N	3	0	2	EASC_P5N540	.IES	EASC_P5N550	.IES
	Q5	Symmetric Short	16400	137	N	4	0	2	EASC_Q5N540	.IES	EASC_Q5N550	.IES
	R5	Symmetric Short	18700	156	N	4	0	2	EASC_R5N540	.IES	EASC_R5N550	.IES
	S5	Symmetric Short	23100	199	N	4	0	2	EASC_S5N540	.IES	EASC_S5N550	.IES
	T5	Symmetric Short	27400	235	N	4	0	2	EASC_T5N540	.IES	EASC_T5N550	.IES
	U5	Symmetric Short	33000	283	N	5	0	2	EASC_U5N540	.IES	EASC_U5N550	.IES
V5	Symmetric Short	41500	395	N	5	0	3	EASC_V5N740	.IES	EASC_V5N750	.IES	
TYPE IV	A4	Asymmetric Forward	4200	44	F, L, R	1	0	1	EASC_A4F540	.IES	EASC_A4F550	.IES
	B4	Asymmetric Forward	6500	62	F, L, R	1	0	2	EASC_B4F540	.IES	EASC_B4F550	.IES
	C4	Asymmetric Forward	7600	72	F, L, R	1	0	2	EASC_C4F540	.IES	EASC_C4F550	.IES
	D4	Asymmetric Forward	8700	82	F, L, R	1	0	2	EASC_D4F540	.IES	EASC_D4F550	.IES
	E4	Asymmetric Forward	12900	119	F, L, R	2	0	3	EASC_E4F540	.IES	EASC_E4F550	.IES
	F4	Asymmetric Forward	15400	144	F, L, R	2	0	3	EASC_F4F540	.IES	EASC_F4F550	.IES
	G4	Asymmetric Forward	17100	156	F, L, R	2	0	3	EASC_G4F540	.IES	EASC_G4F550	.IES
	H4	Asymmetric Forward	21200	199	F, L, R	3	0	4	EASC_H4F540	.IES	EASC_H4F550	.IES
	J4	Asymmetric Forward	25200	235	F, L, R	3	0	4	EASC_J4F540	.IES	EASC_J4F550	.IES
	K4	Asymmetric Forward	30000	283	F, L, R	3	0	5	EASC_K4F540	.IES	EASC_K4F550	.IES
L4	Asymmetric Forward	38300	395	F, L, R	3	0	5	EASC_L4F740	.IES	EASC_L4F750	.IES	
TYPE III	A3	Asymmetric Wide	4700	44	F, L, R	1	0	1	EASC_A3F540	.IES	EASC_A3F550	.IES
	B3	Asymmetric Wide	7100	62	F, L, R	1	0	1	EASC_B3F540	.IES	EASC_B3F550	.IES
	C3	Asymmetric Wide	8300	72	F, L, R	1	0	2	EASC_C3F540	.IES	EASC_C3F550	.IES
	D3	Asymmetric Wide	9500	82	F, L, R	2	0	2	EASC_D3F540	.IES	EASC_D3F550	.IES
	E3	Asymmetric Wide	13900	119	F, L, R	2	0	2	EASC_E3F540	.IES	EASC_E3F550	.IES
	F3	Asymmetric Wide	16800	144	F, L, R	2	0	2	EASC_F3F540	.IES	EASC_F3F550	.IES
	G3	Asymmetric Wide	18700	156	F, L, R	2	0	2	EASC_G3F540	.IES	EASC_G3F550	.IES
	H3	Asymmetric Wide	23100	199	F, L, R	3	0	3	EASC_H3F540	.IES	EASC_H3F550	.IES
	J3	Asymmetric Wide	27400	235	F, L, R	3	0	3	EASC_J3F540	.IES	EASC_J3F550	.IES
	K3	Asymmetric Wide	33000	283	F, L, R	3	0	4	EASC_K3F540	.IES	EASC_K3F550	.IES
L3	Asymmetric Wide	41500	395	F, L, R	3	0	4	EASC_L3F740	.IES	EASC_L3F750	.IES	
TYPE II	A2	Asymmetric Narrow	4600	44	F, L, R	1	0	1	EASC_A2F540	.IES	EASC_A2F550	.IES
	B2	Asymmetric Narrow	6800	62	F, L, R	1	0	1	EASC_B2F540	.IES	EASC_B2F550	.IES
	C2	Asymmetric Narrow	8000	72	F, L, R	2	0	2	EASC_C2F540	.IES	EASC_C2F550	.IES
	D2	Asymmetric Narrow	9100	82	F, L, R	2	0	2	EASC_D2F540	.IES	EASC_D2F550	.IES
	E2	Asymmetric Narrow	13400	119	F, L, R	2	0	2	EASC_E2F540	.IES	EASC_E2F550	.IES
	F2	Asymmetric Narrow	16200	144	F, L, R	3	0	3	EASC_F2F540	.IES	EASC_F2F550	.IES
	G2	Asymmetric Narrow	18000	156	F, L, R	3	0	3	EASC_G2F540	.IES	EASC_G2F550	.IES
	H2	Asymmetric Narrow	22300	199	F, L, R	3	0	3	EASC_H2F540	.IES	EASC_H2F550	.IES
	J2	Asymmetric Narrow	26500	235	F, L, R	3	0	3	EASC_J2F540	.IES	EASC_J2F550	.IES
	K2	Asymmetric Narrow	31900	283	F, L, R	3	0	4	EASC_K2F540	.IES	EASC_K2F550	.IES
	L2	Asymmetric Narrow	40000	395	F, L, R	4	0	4	EASC_L2F740	.IES	EASC_L2F750	.IES
	KA	Asymmetric 100° Wide Auto	35400	283	F, L, R	4	0	3	EASC_KAF540	.IES	EASC_KAF550	.IES
LA	Asymmetric 100° Wide Auto	46900	398	F, L, R	5	0	4	EASC_LAF740	.IES	EASC_LAF750	.IES	

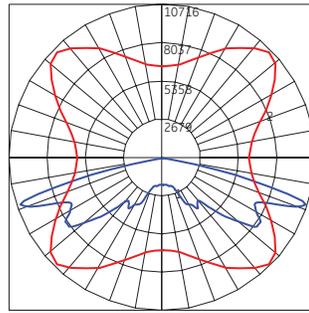
*Rating values for B and G are based on rated lumens and may vary due to flux tolerances.

Photometrics

EASC Type V - Symmetric Medium (K5)
30,000 Lumens, 5000K (EASC_K5N550__ies)

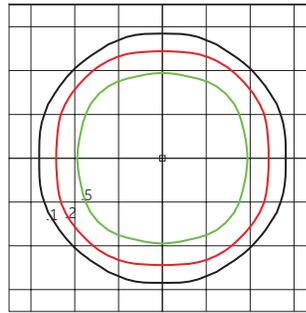


Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

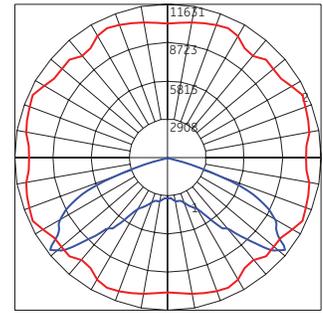


— Vertical plane through horizontal angle of maximum candlepower at 45°
— Vertical plane through horizontal angle of 72°

EASC Type V - Symmetric Short (U5)
33,000 Lumens, 5000K (EASC_U5N550__ies)

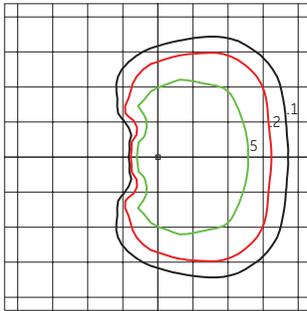


Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

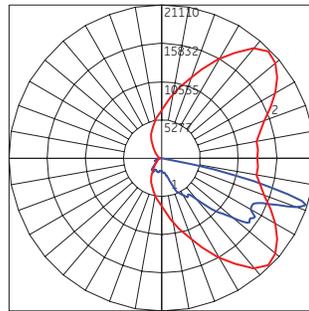


— Vertical plane through horizontal angle of maximum candlepower at 20°
— Vertical plane through horizontal angle of 52°

EASC Type IV - Asymmetric Forward (K4)
30,000 Lumens, 5000K (EASC_K4F550__ies)

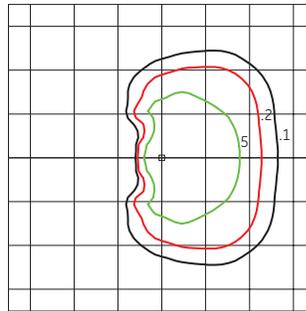


Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

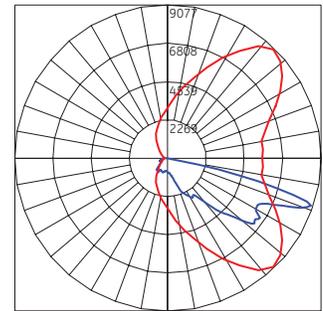


— Vertical plane through horizontal angle of maximum candlepower at 45°
— Vertical plane through horizontal angle of 72°

EASC Type IV - Asymmetric Forward (E4)
12,900 Lumens, 5000K (EASC_E4F550__ies)

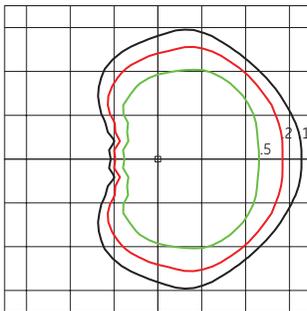


Grid Distance in Units of Mounting Height at 30' Initial Footcandle Values at Grade

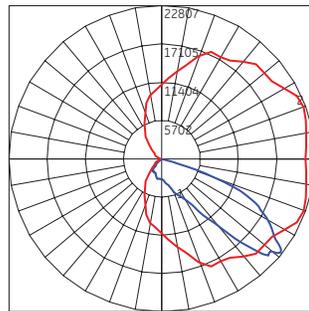


— Vertical plane through horizontal angle of maximum candlepower at 45°
— Vertical plane through horizontal angle of 72°

EASC Type III - Asymmetric Wide (K3)
33,000 Lumens, 5000K (EASC_K3F550__ies)

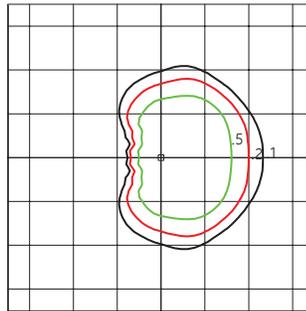


Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

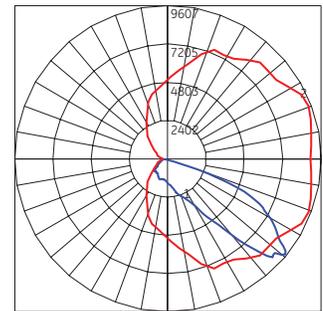


— Vertical plane through horizontal angle of maximum candlepower at 20°
— Vertical plane through horizontal angle of 52°

EASC Type III - Asymmetric Wide (E3)
13,900 Lumens, 5000K (EASC_E3F550__ies)

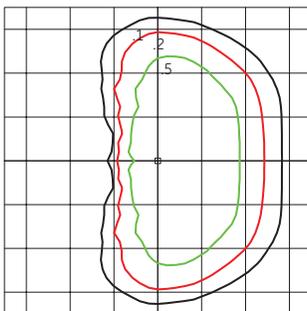


Grid Distance in Units of Mounting Height at 30' Initial Footcandle Values at Grade

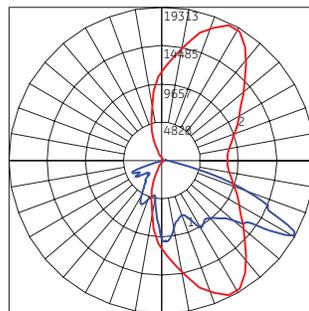


— Vertical plane through horizontal angle of maximum candlepower at 20°
— Vertical plane through horizontal angle of 52°

EASC Type II - Asymmetric Narrow (K2)
31,900 Lumens, 5000K (EASC_K2F550__ies)

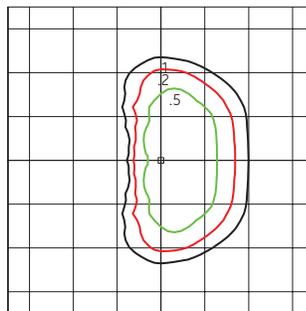


Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

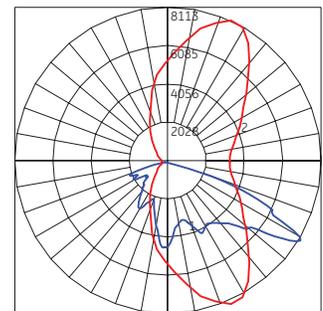


— Vertical plane through horizontal angle of maximum candlepower at 65°
— Vertical plane through horizontal angle of 60°

EASC Type II - Asymmetric Narrow (E2)
13,400 Lumens, 5000K (EASC_E2F550__ies)



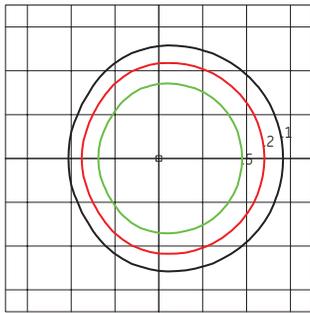
Grid Distance in Units of Mounting Height at 30' Initial Footcandle Values at Grade



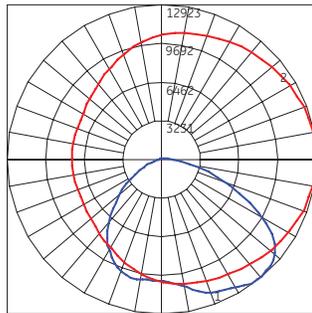
— Vertical plane through horizontal angle of maximum candlepower at 65°
— Vertical plane through horizontal angle of 60°

Photometrics

EASC Type II - Asymmetric Auto (KA)
35,400 Lumens, 5000K (EASC_KAF550__.ies)

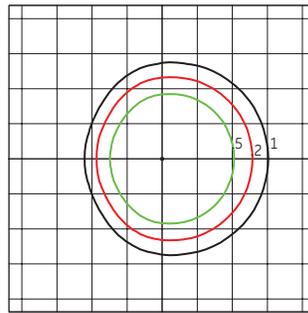


Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

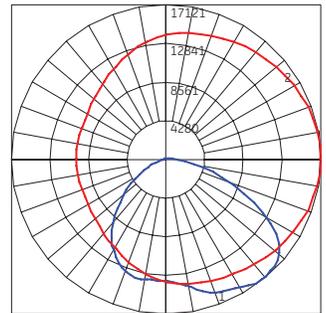


— Vertical plane through horizontal angle of maximum candlepower at 0°
— Vertical plane through horizontal angle of 37°

EASC Type II - Asymmetric Auto (LA)
46,900 Lumens, 5000K (EASC_LAF750__.ies)



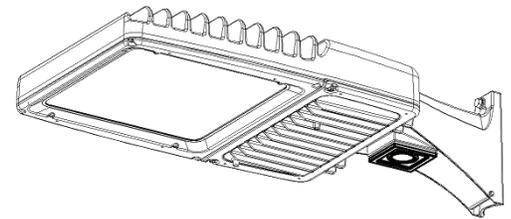
Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade



— Vertical plane through horizontal angle of maximum candlepower at 0°
— Vertical plane through horizontal angle of 37°

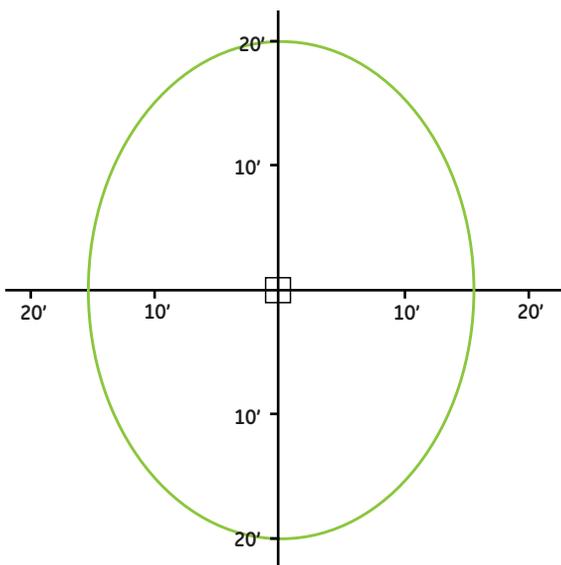
H-Motion Sensing Option:

- Intended for high mounting applications, between 15-30ft (4.57-9.14m). For mounting heights exceeding 30ft, pole mounted sensors are recommended.
- Provides a coverage area radius for walking motion of 15-20ft (4.57-6.10m).
- Provides 270° of coverage (~90° is blocked by the pole).
- Comes standard with 50% dimmed light output with no occupancy, and full power at occupancy.
- Comes standard with photocell function. Note: It is not necessary to also purchase PE receptacle or control.
- Comes standard with a 5 minute occupancy time delay and a 5 minute ramp-down to the 50% dimmed level.
- Must order with decorative mounting arm options "A" or "B".
- Fixture power increase of 1W expected with sensor use.



Note: Standard options may be reprogrammed in the field. Reprogramming instructions included in product shipment.

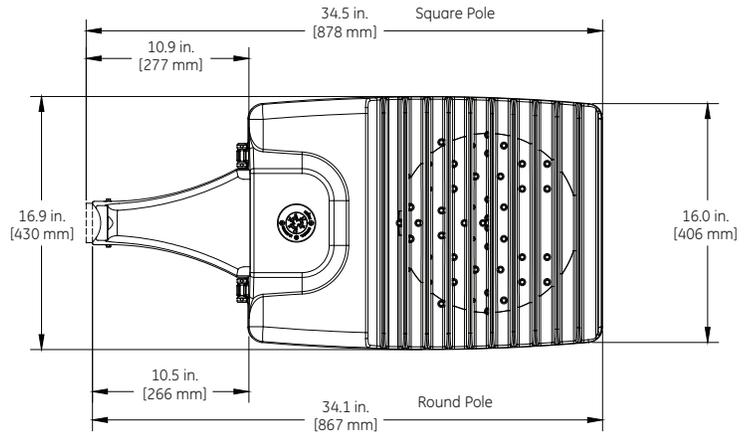
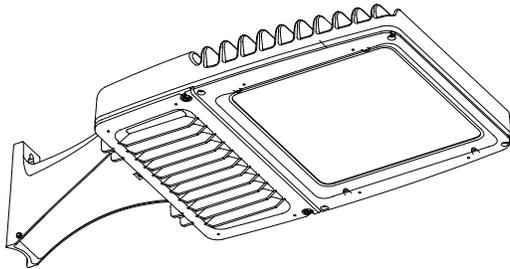
Sensor Pattern:



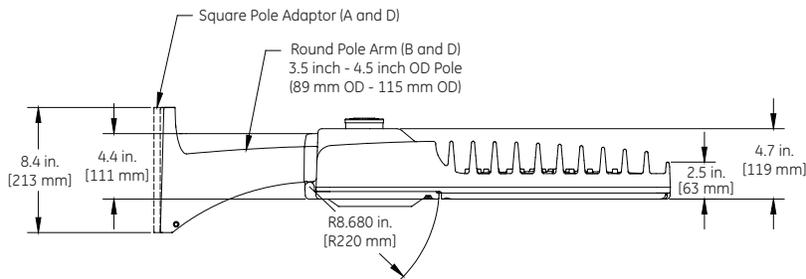
Sensing Pattern Area Fixture
Up to 30 ft.

Product Dimensions

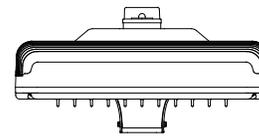
(Option A) 10" Arm for Square Pole Mount
 (Option B) 10" Arm for Round Pole Mount
 (Option D) 10" Arm for Square Pole Mount or Round Pole Mount
 Option D includes all mounting hardware in Option A and Option B



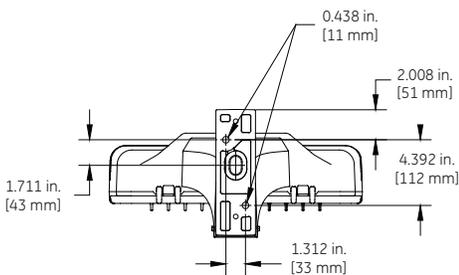
TOP VIEW



SIDE VIEW

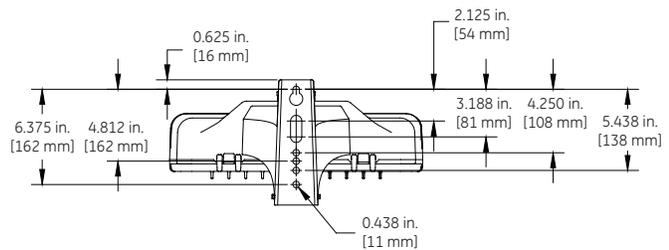


FRONT VIEW



BACK VIEW

Option A and D Square Pole
 3.5 inch - 4.5 inch Pole
 (89 mm - 115 mm)



BACK VIEW

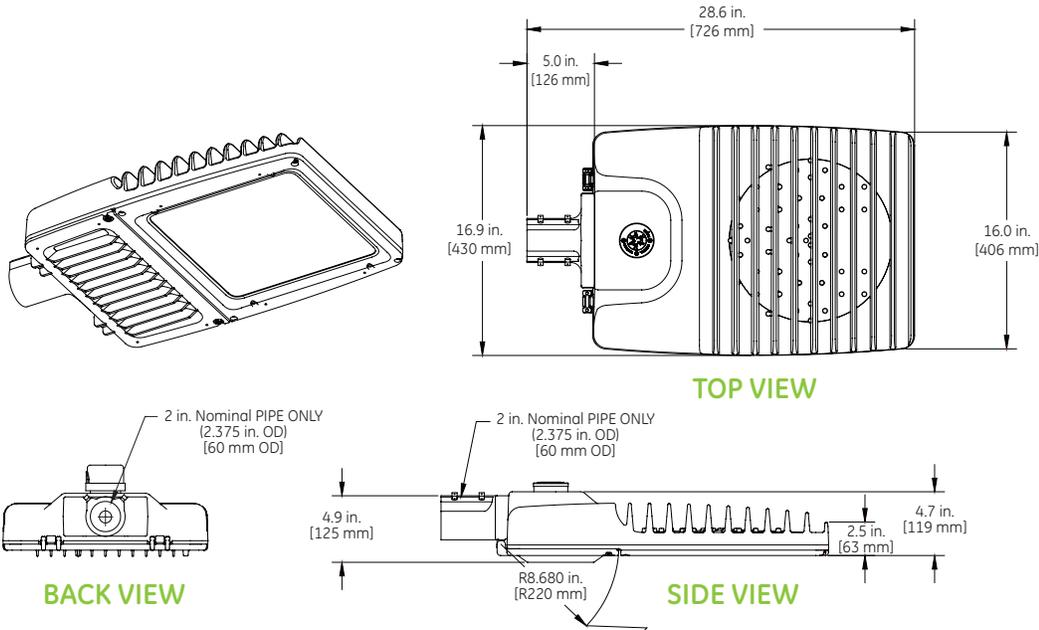
Option B and D Round Pole
 3.5 inch - 4.5 inch OD Pole
 (89 mm OD - 115 mm OD)

DATA

- Approximate net weight: 43-47 lbs (19.50 - 21.32 kgs)
 Contact manufacturer for specific configuration weight.
- Effective Projected Area (EPA) with 10" Mounting Arm: 0.97 sq ft max (0.09 sq m)

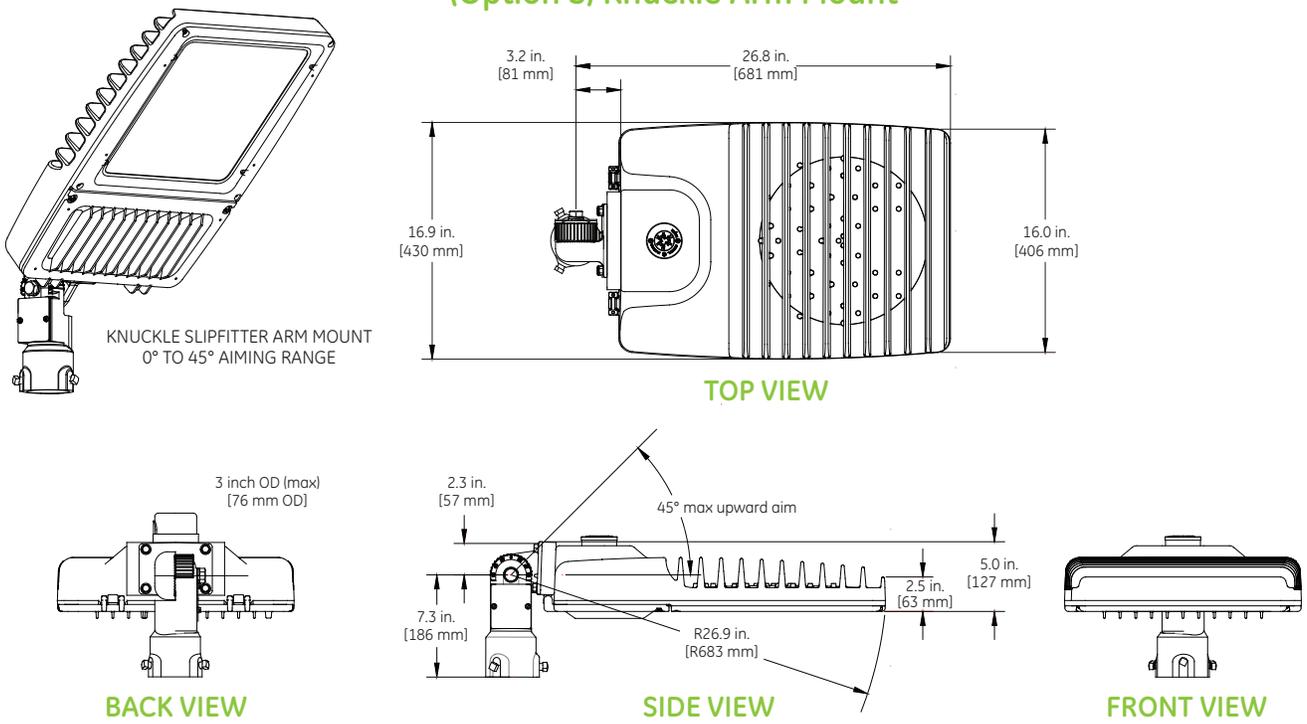
Product Dimensions

(Option C) Slipfitter Arm Mount



- DATA**
- Approximate net weight: 41-45 lbs (18.60 - 20.41 kgs)
Contact manufacturer for specific configuration weight.
 - Effective Projected Area (EPA) with Slipfitter: 0.47 sq ft max (0.04 sq m)

(Option S) Knuckle Arm Mount



- DATA**
- Approximate net weight: 41-45 lbs (18.60 - 20.41 kgs)
Contact manufacturer for specific configuration weight.
 - Effective Projected Area (EPA) with fixture mounted at 45° upward: 1.97 sq ft max

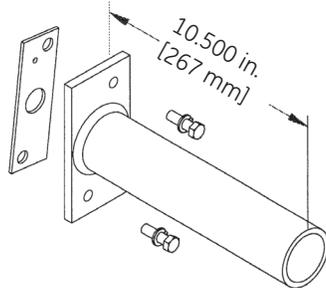
Mounting Information

Mounting Arms for Slipfitter

Order separately with Mounting Option C (External Slipfitter)

SQUARE POLE MOUNTING ARM

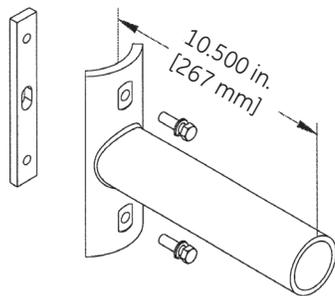
3.5 TO 4.5-inch (89 to 114mm) SQUARE
(WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)



ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER
SPA-EAMT10BLCK "Black"
SPA-EAMT10DKBZ "Dark Bronze"

ROUND POLE MOUNTING ARM

3.5 TO 4.5-inch (89 to 114mm) OD
(WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)



ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER
RPA-EAMT10BLCK "Black"
RPA-EAMT10DKBZ "Dark Bronze"

Wall Mounting Bracket Adapter Plate

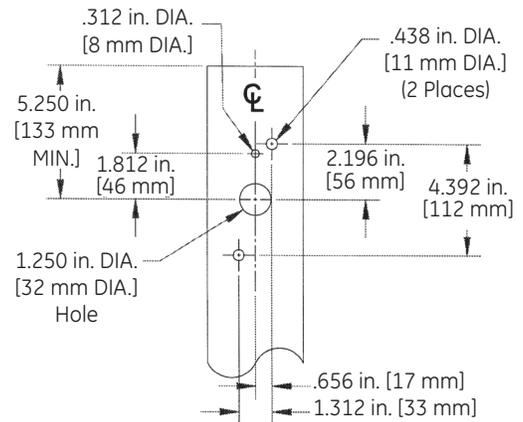
ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER
WMB-EAMT06

***NOTE: For Wall Mounting, order luminaire with mounting arm: C = EXT Slip-fitter 2" Pipe (2.378 in. OD) supplied with leads.**

Other mounting patterns are available for retrofit installations.
Contact manufacturing for other available mounting patterns.

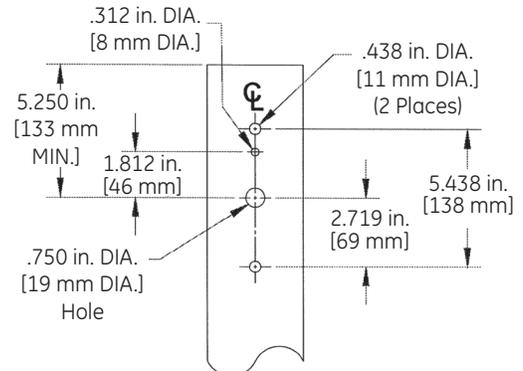
Drilling Templates for Slipfitter Arms & Arm Mount

SQUARE POLE MOUNTING



ROUND POLE MOUNTING

3.5 TO 4.5-inch (89 to 114mm) OD
round pole mounting arm



www.gelighting.com

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OLP3090 (Rev 03/24/16)

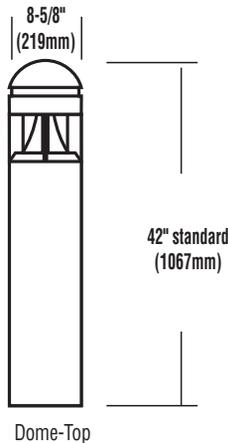
LED BOLLARD LIGHT (XBVRD)



DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

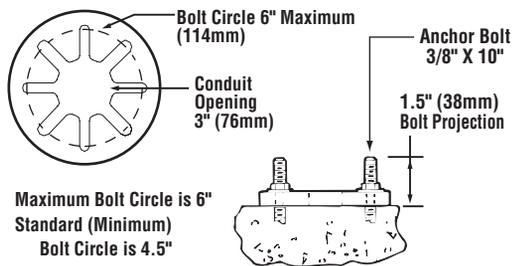
DIMENSIONS



Dome-Top

BASE DETAIL

Note: Base plate dimensions may change without notice. Do not use for setting anchor bolts. Consult factory for base plate templates.



Maximum Bolt Circle is 6" Standard (Minimum) Bolt Circle is 4.5"

Also available in traditional light sources

U.S. and international patents pending

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - An array of 24 select high-brightness LEDs in Cool White (5000K), Warm White (3500K) or Neutral White (4000K) color temperature, 69 CRI

REFLECTOR/DISTRIBUTION - Indirect. Photometric data is tested in accordance to IESNA Procedures.

HOUSING - Crown: Virtually tamper-proof concealed stainless steel fasteners in the cast aluminum crown assembly.

Lower Housing: One-piece, .322 inch seamless, extruded aluminum. Various heights are available in 6" increments starting at a minimum of 30" (maximum height is 60"). Lower housing attaches to cast aluminum base plate with four stainless steel roll pins.

OPTIONAL ROUGHNECK REINFORCEMENT - .375" thick zinc plated, steel base plate with welded U shaped reinforcement. 3/8" diameter 302 stainless steel roll pins with 10,000 lb. shear load.

LENS/GASKET - One-piece, clear acrylic lens enclosure fully gasketed at top and bottom edge.

ANCHOR BOLTS - Requires four heavy-duty 3/8" x 10" galvanized steel anchor bolts.

ELECTRICAL - Universal voltage power supply (120-277 VAC, 50/60 Hz). 347-480V also available - 400mA is standard. Surge protector meets IEEE C62.41.2-2002, Scenario 1 Location Category C.

DRIVER - State-of-the-art driver technology designed specifically LSI LED light sources provides unsurpassed system efficiency. Driver complies with IEC and FCC standards.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F).

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling.

DECAL STRIPING - Color-coordinated decal is available in 9 standard decal colors or by custom order from a selection of hundreds. Decal is guaranteed for five years against peeling, cracking, or fading.

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

LISTING - Listed to U.S. and Canadian safety standards. Suitable for wet locations. DLC - not all possible distributions are DLC approved. Please refer to LSI or DLC web site for specific listings. For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



LIGHT OUTPUT - XBVR			
Description	# of LEDs	Output	
		Lumens	Watts
Cool White XBVR ID	24	1338	38
Neutral White XBVR ID	24	1224	38
Warm White XBVR ID	24	856	38

LED Chips are frequently updated therefore values may increase.



Project Name _____ Fixture Type _____
Catalog # _____

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LED BOLLARD LIGHT (XBVRD)

PRODUCT ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XBVRF ID LED 24 400 CW UE BRZ 45**

Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temp	Line Voltage	Finish	Options
XBVRF Flat-Top XBVRD Round-Top	ID - Indirect	LED - Light Emitting Diode	24	400	CW - Cool White (5000K) NW - Neutral White (4000K) WW - Warm White (3000K)	UE - Universal Electronic (120-277V 50/60Hz) 347 - 347 volt 480 - 480 volt	BRZ - Bronze BLK - Black PLP - Platinum Plus BUF - Buff WHT - White GPT - Graphite SVG - Satin Verde Green MSV - Metallic Silver	H - XX (Specify Height) ¹ PCI120 - Button-type Photocell PCI208, 240,277 - Button-type Photocell PCI347 - Button-type Photocell GFR - GFI Duplex Receptacle LAB - Less Anchor Bolts RN - Roughneck Heavy Duty Mounting Plate

1 - Taller or shorter heights available in 6" increments. Minimum height is 30". Maximum height is 60".

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number
ABKIT - Anchor Bolt Kit (BVR) 3/8" x 10" - Galvanized	285560
HSS - Round House Side Shield	122510

Color Decals

- 45 - Light Gold
- 20 - Charcoal Metallic
- 55 - Black
- 94 - Blue Black
- 59 - Dark Green
- 51 - Dark Red
- 21 - Tomato Red
- 50 - White
- 700 - Aztec Silver Metallic



Project Name _____ Fixture Type _____
 Catalog # _____

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NORTH ELEVATION



EAST ELEVATION

RCS LEARNING CENTER
 FRAMINGHAM, MA
 2016 MAY 19

CONCEPT ELEVATIONS





RCS LEARNING CENTER
FRAMINGHAM, MA
2016 MAY 11

MAIN ENTRANCE





MAIN ENTRANCE



MAIN ENTRANCE FROM NORTHWEST



AERIAL VIEW FROM NORTHEAST



AERIAL VIEW FROM NORTHWEST





LOWER LEVEL ENTRANCE



LOWER LEVEL ENTRANCE FROM SOUTHEAST



AERIAL VIEW FROM SOUTHWEST



AERIAL VIEW FROM SOUTHEAST

