

# 186 MAPLE STREET SOLAR PROJECT

## SITE USE PLAN

186 MAPLE STREET, BELLINGHAM, MA 02019

### 4,000.00 kW AC STC RATED SOLAR ELECTRIC SYSTEM

TOWN OF FRANKLIN  
TOWN CLERK  
2019 AUG 13 A 11:59  
RECEIVED

GENERAL NOTES	PROJECT SCOPE	LOCATION MAP	DRAWING LIST																																																							
<p>1. AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE BORREGO SOLAR SYSTEMS, INC AND "SUBCONTRACTOR" IS BORREGO'S INSTALLATION SUBCONTRACTOR.</p> <p>2. THESE NOTES SET MINIMUM STANDARDS FOR CONSTRUCTION. THE DRAWINGS GOVERN OVER THESE NOTES TO THE EXTENT SHOWN.</p> <p>3. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: LOCAL BUILDING CODE, LOCAL ELECTRICAL CODE, ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES AND STANDARDS LISTED IN THESE DRAWINGS AND IN THE SUBCONTRACTOR AGREEMENT.</p> <p>4. EXCEPTIONS TO THE CONTRACT DOCUMENTS ARE PERMITTED ONLY WITH THE APPROVAL OF BORREGO.</p> <p>5. COORDINATE THESE DRAWINGS WITH SPECIFICATIONS AND MANUFACTURER INSTALLATION AND OPERATION MANUALS AND NOTIFY BORREGO OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.</p> <p>6. DRAWINGS HAVE BEEN DETAILED IN COMPLIANCE WITH U.L. LISTING REQUIREMENTS AND THE BUILDING CODE FOR THE MATERIALS SPECIFIED. IF AN ALTERNATE OR SUBSTITUTED MATERIAL IS ACCEPTED AS AN EQUAL BY BORREGO, THE SUBCONTRACTOR WILL ASSUME THE RESPONSIBILITY FOR WHATEVER CONSTRUCTION MODIFICATION AND/OR ADDITIONAL COST THAT IS REQUIRED BY REASON OF THIS ACCEPTANCE.</p> <p>7. PRIOR TO THE COMMENCEMENT OF ANY WORK, EACH TRADE SHALL VERIFY EXISTING CONDITIONS AND NOTIFY BORREGO OF ANY DISCREPANCIES TO THAT WHICH IS SHOWN IN THESE DRAWINGS, INCLUDING BUT NOT LIMITED TO DIMENSIONS OF THE WORK AREA, STRUCTURE, EXISTING ELECTRICAL SERVICE, CONDUIT PATHS, OBSTRUCTIONS, ACCESSIBILITY ISSUES, AND WORKING CLEARANCES. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE SUBCONTRACTOR AT HIS OWN EXPENSE.</p> <p>8. SUBCONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO BORREGO FOR APPROVAL PRIOR TO MAKING ANY CHANGES. APPROVED CHANGES REQUIRE A DRAWING REVISION TO MAINTAIN CONTROL OVER THE APPROVED DESIGN. DEVIATION FROM THESE PLANS PRIOR TO BORREGO APPROVAL PLACES ALL LIABILITY ON THE SUBCONTRACTOR.</p> <p>9. UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT ARE NEW. ALL ITEMS TO BE REMOVED AND RELOCATED OR REPLACED SHALL BE HANDLED WITH PROPER CARE AND STORED IN A SAFE PLACE TO PREVENT DAMAGE; OR BE REPLACED AT THE SUBCONTRACTOR'S EXPENSE.</p> <p>11. ALL EQUIPMENT SHALL BE MOUNTED AS SHOWN. WHERE DETAILS ARE NOT PROVIDED, THE SUBCONTRACTOR SHALL USE DILIGENT EFFORTS TO MOUNT EQUIPMENT SUCH THAT IT WILL BE CLEAN, LEVEL AND SOLID.</p> <p>12. ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND NEW DEVICES AND EQUIPMENT TO MATCH EXISTING FINISHES.</p> <p>13. ANY METAL SHAVINGS RESULTING FROM SITE WORK SHALL BE CLEANED FROM ROOF SURFACES, ENCLOSURES AND ANY ADDITIONAL AREAS WHERE OXIDIZED OR CONDUCTIVE METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS OR OTHER DAMAGE.</p> <p>14. NO STRUCTURAL MEMBER SHALL BE DRILLED UNLESS SPECIFICALLY AUTHORIZED BY BORREGO.</p> <p>15. SUBCONTRACTOR ACKNOWLEDGES THAT THE SYSTEM AS INDICATED ON THE PLANS REQUIRES ALL COMPONENTS TO BE INSTALLED TO PROPERLY RESIST WIND LOADS, SUCH AS BALLAST, WIND DEFLECTORS, ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE TEMPORARY MEANS TO RESIST WIND LOADS FOR ALL COMPONENTS NOT YET INSTALLED DURING AND AFTER REGULAR WORKING HOURS. THIS MAY INCLUDE TEMPORARY TIE DOWNS, COVERING, BALLAST OR ANY OTHER MEANS. DAMAGE TO ANY INSTALLED SYSTEM COMPONENT OR THE EXISTING FACILITY AS A RESULT OF THE UNFINISHED CONDITION NOT ADEQUATELY RESISTING WIND SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR TO REPAIR OR REPLACE AT THE SUBCONTRACTOR'S COST.</p> <p>16. TREES MAY GROW DURING THE LIFE OF THE SYSTEM AND IMPACT THE PRODUCTION.</p> <p>V.7</p>	<p>THIS PROJECT CONSISTS OF THE INSTALLATION OF SOLAR MODULES PER THE SYSTEM DESCRIPTION, BELOW. THE MODULES WILL BE INSTALLED ON A GROUND MOUNTED RACKING SYSTEM. THE MODULES WILL BE WIRED IN SERIES STRINGS AND CONNECTED IN PARALLEL TO THE INVERTER(S), WHICH CONVERT THE PHOTOVOLTAIC OUTPUT POWER FROM DC TO AC. THE SOLAR ELECTRIC SYSTEM WILL BE INTERCONNECTED WITH THE EXISTING SITE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE APPLICABLE ELECTRICAL CODE AND EVERSOURCE EAST REQUIREMENTS.</p> <p>THIS PROJECT CONSISTS OF THE INSTALLATION OF ENERGY STORAGE EQUIPMENT, PER THE SYSTEM DESCRIPTION, BELOW. THE ENERGY STORAGE MODULES WILL BE INSTALLED IN A PURPOSE BUILT CONTAINER WITH INTEGRATED BATTERY MANAGEMENT SYSTEM, HEATING, VENTILATION, AIR CONDITIONING UNIT(S), AND FIRE SUPPRESSION SYSTEMS. THE ENERGY STORAGE MODULES WILL BE WIRED IN SERIES STRINGS AND CONNECTED TO THE POWER CONVERSION SYSTEM, WHICH WILL CONVERT DC TO AC WHILE THE BATTERIES ARE DISCHARGING.</p>		<table border="1"> <thead> <tr> <th>SHEET NUMBER</th> <th>SHEET TITLE</th> </tr> </thead> <tbody> <tr> <td>T-1</td> <td>TITLE PAGE</td> </tr> <tr> <td colspan="2">CIVIL</td> </tr> <tr> <td>C-1.0</td> <td>EXISTING CONDITIONS PLAN</td> </tr> <tr> <td>C-2.0</td> <td>TREE CLEARING PLAN</td> </tr> <tr> <td>C-3.0</td> <td>LAYOUT AND MATERIALS PLAN</td> </tr> <tr> <td>C-4.0</td> <td>GRADING AND EROSION CONTROL PLAN</td> </tr> <tr> <td>C-5.0</td> <td>DEMOLITION PLAN</td> </tr> <tr> <td>C-6.0</td> <td>CIVIL DETAILS</td> </tr> <tr> <td>C-6.1</td> <td>CIVIL DETAILS</td> </tr> <tr> <td>C-6.2</td> <td>BASIN DETAILS</td> </tr> <tr> <td>W-1.0</td> <td>PRE-DEVELOPMENT WATERSHED PLAN</td> </tr> <tr> <td>W-2.0</td> <td>POST-DEVELOPMENT WATERSHED PLAN</td> </tr> <tr> <td colspan="2">ELECTRICAL</td> </tr> <tr> <td>PV-L2</td> <td>SINGLE LINE</td> </tr> </tbody> </table>	SHEET NUMBER	SHEET TITLE	T-1	TITLE PAGE	CIVIL		C-1.0	EXISTING CONDITIONS PLAN	C-2.0	TREE CLEARING PLAN	C-3.0	LAYOUT AND MATERIALS PLAN	C-4.0	GRADING AND EROSION CONTROL PLAN	C-5.0	DEMOLITION PLAN	C-6.0	CIVIL DETAILS	C-6.1	CIVIL DETAILS	C-6.2	BASIN DETAILS	W-1.0	PRE-DEVELOPMENT WATERSHED PLAN	W-2.0	POST-DEVELOPMENT WATERSHED PLAN	ELECTRICAL		PV-L2	SINGLE LINE																									
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<p><b>APPLICABLE CODES AND STANDARDS</b></p> <p>2017 MASSACHUSETTS ELECTRICAL CODE 527 CMR12.00 MASSACHUSETTS BUILDING CODE 9TH EDITION UL-1703 - SOLAR MODULES UL-1741 - INVERTERS, COMBINER BOXES UL-2703 - RACKING MOUNTING SYSTEMS AND CLAMPING DEVICES FOR PV MODULES UL-1642 - STANDARD FOR LITHIUM BATTERIES UL-1973 - STANDARD FOR BATTERIES FOR USE IN LIGHT ELECTRIC RAIL (LER) APPLICATIONS AND STATIONARY APPLICATIONS UL-9540 - STANDARD FOR ENERGY STORAGE SYSTEMS AND EQUIPMENT</p>	<p><b>PROJECT DIRECTORY</b></p> <p><b>SYSTEM / PROJECT OWNER</b> TBD</p> <p><b>LAND OWNER / HOST</b> LMP PROPERTIES, LLC (207) 831-1030 186 MAPLE STREET BELLINGHAM, MA 02019</p> <p><b>AUTHORITY HAVING JURISDICTION</b> TOWN OF BELLINGHAM 10 MECHANIC STREET BELLINGHAM, MA 02019</p> <p><b>UTILITY</b> EVERSOURCE EAST</p> <p><b>CIVIL ENGINEER</b> FIRM: BORREGO SOLAR SYSTEMS, INC. CONTACT: DAVID ALBRECHT, P.E. PHONE: (978)-513-2621</p> <p><b>STRUCTURAL ENGINEER</b> FIRM: BORREGO SOLAR SYSTEMS, INC. CONTACT: MIKE KLUG, PE PHONE: (603)-315-0126</p> <p><b>ELECTRICAL ENGINEER</b> FIRM: BORREGO SOLAR SYSTEM, INC. CONTACT: AHARON WRIGHT, PE PHONE: (978)-726-3496</p> <p><b>DESIGN ENGINEER</b> FIRM: BORREGO SOLAR SYSTEMS, INC. CONTACT: RYAN STAIR PHONE: (207)-636-0311</p>	<p><b>GENERAL ABBREVIATIONS</b></p> <table border="0"> <tr> <td>(E) EXISTING</td> <td>NS NORTH-SOUTH</td> </tr> <tr> <td>AHJ AUTHORITY HAVING JURISDICTION</td> <td>NTS NOT TO SCALE</td> </tr> <tr> <td>AL ALUMINUM</td> <td>OAE OR APPROVED EQUAL</td> </tr> <tr> <td>APPROX APPROXIMATE</td> <td>OC ON CENTER</td> </tr> <tr> <td>ARY ARRAY</td> <td>OD OUTSIDE DIAMETER</td> </tr> <tr> <td>BLDG BUILDING</td> <td>OFCI OWNER FURNISHED CONTRACTOR</td> </tr> <tr> <td>BSS BORREGO SOLAR SYSTEM</td> <td>INSTALLED</td> </tr> <tr> <td>CL CENTERLINE</td> <td>PV PHOTOVOLTAIC</td> </tr> <tr> <td>DAS DATA ACQUISITION SYSTEM</td> <td>PVC POLY VINYL CHLORIDE</td> </tr> <tr> <td>DIA DIAMETER</td> <td>SCH SCHEDULE</td> </tr> <tr> <td>DO DITTO</td> <td>SS STAINLESS STEEL</td> </tr> <tr> <td>EW EAST-WEST</td> <td>SSS SOLAR SUPPORT STRUCTURE</td> </tr> <tr> <td>FBO FURNISHED BY OTHERS</td> <td>STC STANDARD TEST CONDITIONS</td> </tr> <tr> <td>FF FORWARD FACING</td> <td>TBD TO BE DETERMINED</td> </tr> <tr> <td>GALV GALVANIZED</td> <td>TP TAMPER PROOF</td> </tr> <tr> <td>HDC HOT DIP GALVANIZED</td> <td>TYP TYPICAL</td> </tr> <tr> <td>HVAC HEATING VENTILATION AND AIR CONDITIONING</td> <td>UON UNLESS OTHERWISE NOTED</td> </tr> <tr> <td>ID INSIDE DIAMETER</td> <td>VIF VERIFY IN FIELD</td> </tr> <tr> <td>MFR MANUFACTURER</td> <td>WP WEATHER PROOF</td> </tr> <tr> <td>MOD SOLAR MODULE</td> <td></td> </tr> </table> <p>REV 1.0</p>	(E) EXISTING	NS NORTH-SOUTH	AHJ AUTHORITY HAVING JURISDICTION	NTS NOT TO SCALE	AL ALUMINUM	OAE OR APPROVED EQUAL	APPROX APPROXIMATE	OC ON CENTER	ARY ARRAY	OD OUTSIDE DIAMETER	BLDG BUILDING	OFCI OWNER FURNISHED CONTRACTOR	BSS BORREGO SOLAR SYSTEM	INSTALLED	CL CENTERLINE	PV PHOTOVOLTAIC	DAS DATA ACQUISITION SYSTEM	PVC POLY VINYL CHLORIDE	DIA DIAMETER	SCH SCHEDULE	DO DITTO	SS STAINLESS STEEL	EW EAST-WEST	SSS SOLAR SUPPORT STRUCTURE	FBO FURNISHED BY OTHERS	STC STANDARD TEST CONDITIONS	FF FORWARD FACING	TBD TO BE DETERMINED	GALV GALVANIZED	TP TAMPER PROOF	HDC HOT DIP GALVANIZED	TYP TYPICAL	HVAC HEATING VENTILATION AND AIR CONDITIONING	UON UNLESS OTHERWISE NOTED	ID INSIDE DIAMETER	VIF VERIFY IN FIELD	MFR MANUFACTURER	WP WEATHER PROOF	MOD SOLAR MODULE		<p><b>RECEIVED</b> <b>AUG 12 2019</b> <b>PLANNING DEPT.</b></p> <p>PROJECT NUMBER: 905-2400</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DRWN</th> <th>CHKD</th> <th>RELEASE LEVEL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>7/19/19</td> <td>RMS</td> <td>AW</td> <td>INTX. UPDATE TO 3MAY</td> </tr> <tr> <td>2</td> <td>7/23/19</td> <td>RJD</td> <td>DA</td> <td>SUBMISSION</td> </tr> </tbody> </table> <p>SCALE: 3/4" = 1'-0" ON SHEETS AS NOTED ON OTHERS AS NOTED ON OTHERS MCH 9 24" x 36"</p> <p><b>T-1</b> TITLE PAGE</p>	REV	DATE	DRWN	CHKD	RELEASE LEVEL	1	7/19/19	RMS	AW	INTX. UPDATE TO 3MAY	2	7/23/19	RJD	DA	SUBMISSION
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NOT FOR CONSTRUCTION



David Albrecht

SITE USE PLAN  
186 MAPLE STREET  
BELLINGHAM, MA 02019



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July 24, 2019  
*David Albrecht*

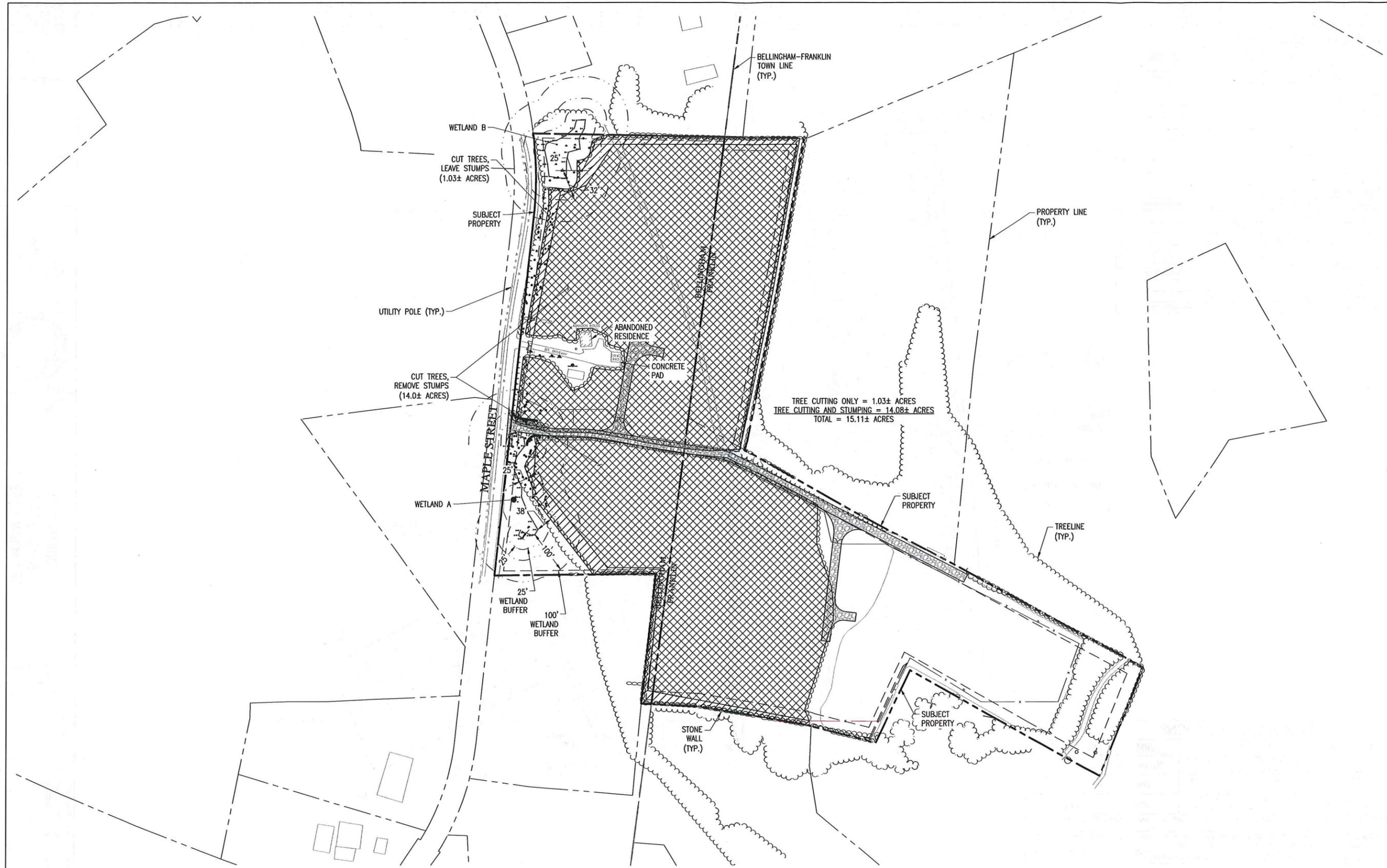
SITE USE PLAN  
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 BELLINGHAM, MA 02019

PROJECT NUMBER:  
 905-2400

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	7/19/19	RMS	AW	INTX UPDATE TO 3M
2	7/23/19	RJD	DA	SUBMISSION

SCALE: 1" = 100'  
 SCALES SHOWN ON DIMENSIONS ARE VALID ONLY WHEN PLOTTED AT 11" x 17" OR 24" x 36"

**C-2.0**  
 TREE CLEARING PLAN



**TREE CLEARING PLAN**

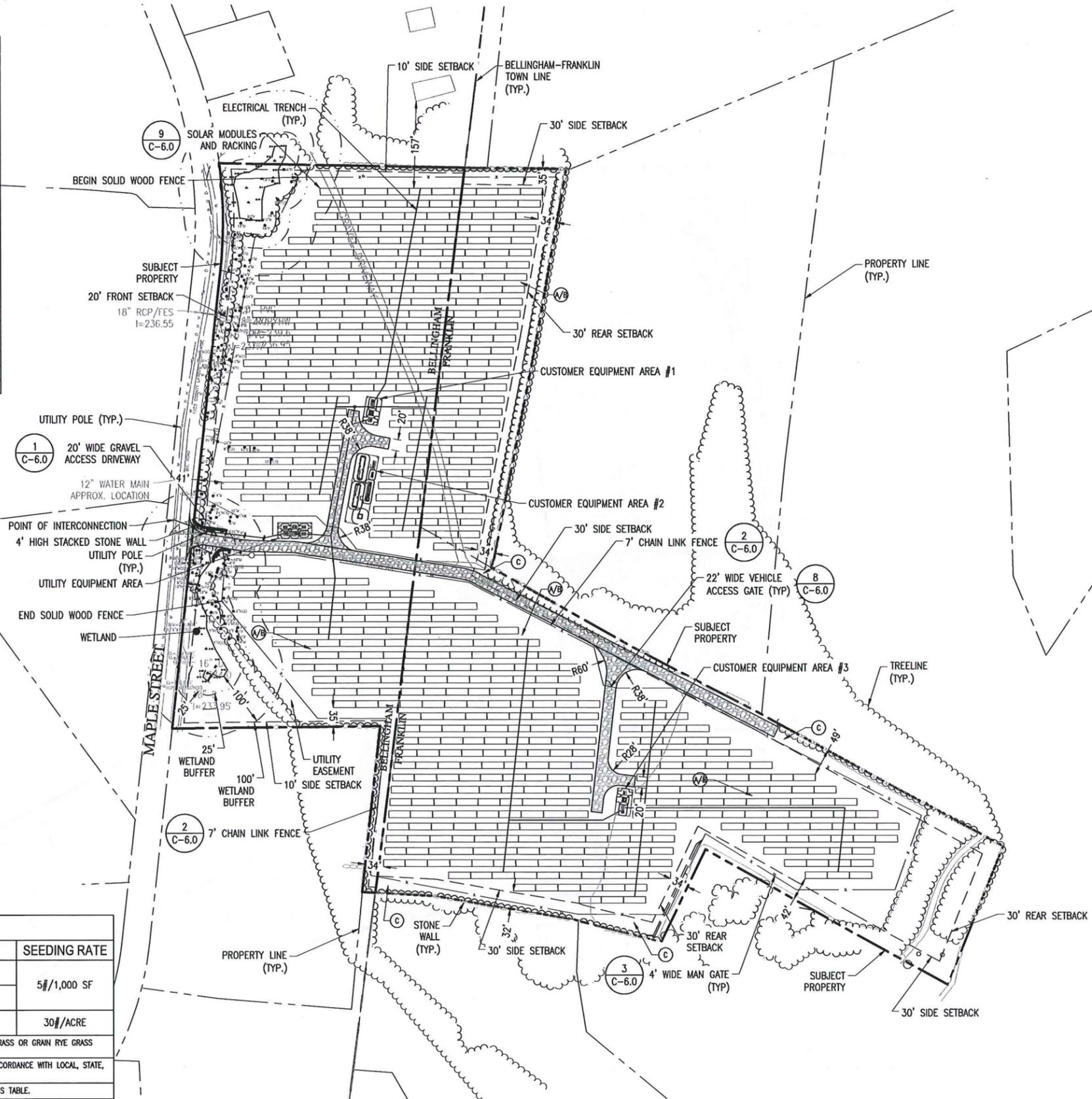
SCALE: 1" = 100'



Franklin Assessors Parcels 239-011/239-013 Zoned I - Industrial				
Large ground-mount systems		Required	Provided	Notes/Bylaw Section
Minimum Lot Area	square feet	40,000	577,600	
Frontage	feet	175'	N/A	No Frontage
Lot Depth	feet	200'	1,100'	
Front Yard	feet	40'	N/A	
Side Yard	feet	30'	34'	
Rear Yard	feet	30'	49'	
Max. Height of Bldg/Stories	feet	40/3	9.5' Racking	15' Energy Storage Units
Max. Impervious Coverage of Existing Upland	%	70%/80%		

Bellingham Assessors Parcel 32-007 Zoned I - Industrial				
Large ground-mount systems		Required	Provided	Notes/Bylaw Section
Minimum Lot Area	square feet	60,000	429,937	
Frontage	feet	200'	1,026'	
Front Yard	feet	20' / 100'	41'	
Side Yard	feet	10' / 30'	35'	See note 2.
Rear Yard	feet	20' / 100'	34'	See note 1.
Maximum Bldg. Height	feet	45'	9.5' Racking	15' Energy Storage

Notes:  
 1. Increase to 100 feet for industrial buildings facing or adjoining a Residential, Suburban, or Agricultural District.  
 2. For industrial or commercial uses, increase to 30 feet where adjoining an Agricultural, Suburban, Residential, or Multifamily District or residential use.



SEEDING SPECIFICATIONS				
	LOCATION	NAME/SPECIES	SUPPLIER	SEEDING RATE
A/B	BETWEEN AND UNDER SOLAR PANELS	REBEL TALL FESCUE, CHEWINGS FESCUE OR HARD FESCUE ERNMX-129: CONSERVATION SHADE MIX	SEEDLAND.COM ERNST	5#/1,000 SF
C	OUTSIDE OF FENCE	ERNMX-179: BUTTERFLY & HUMMINGBIRD GARDEN MIX	ERNST	30#/ACRE

1. BETWEEN DECEMBER 1ST AND APRIL 1ST, EACH TYPE OF SEED SHALL HAVE AN ADDITIONAL 1#/1,000 SF OF WINTER RYEGRASS OR GRAM RYE GRASS SEED.  
 2. IT SHALL BE THE SUB-CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE PROJECT LIMIT OF WORK IS STABILIZED (IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS/REQUIREMENTS/PERMIT APPROVALS) DURING THE LENGTH OF THE PROJECT.  
 3. ALL DISTURBED AREAS SHALL BE RESTORED WITH 4" MINIMUM TOPSOIL & SEED PER SEEDING SPECIFICATIONS LISTED IN THIS TABLE.



# LAYOUT AND MATERIALS PLAN

SCALE: 1" = 100'

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DAVID M. ALBRECHT  
 CIVIL ENGINEER  
 REG. NO. 37310  
 PROFESSIONAL ENGINEER

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*David Albrecht*

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2	7/23/19	RUD	DA	SUBMISSION	

SCALE: SHOWN ON DRAWINGS ARE VALID ONLY WHEN PLOTTED AT 1/4" = 1' & 3/4"

**C-3.0**  
 LAYOUT AND MATERIALS PLAN

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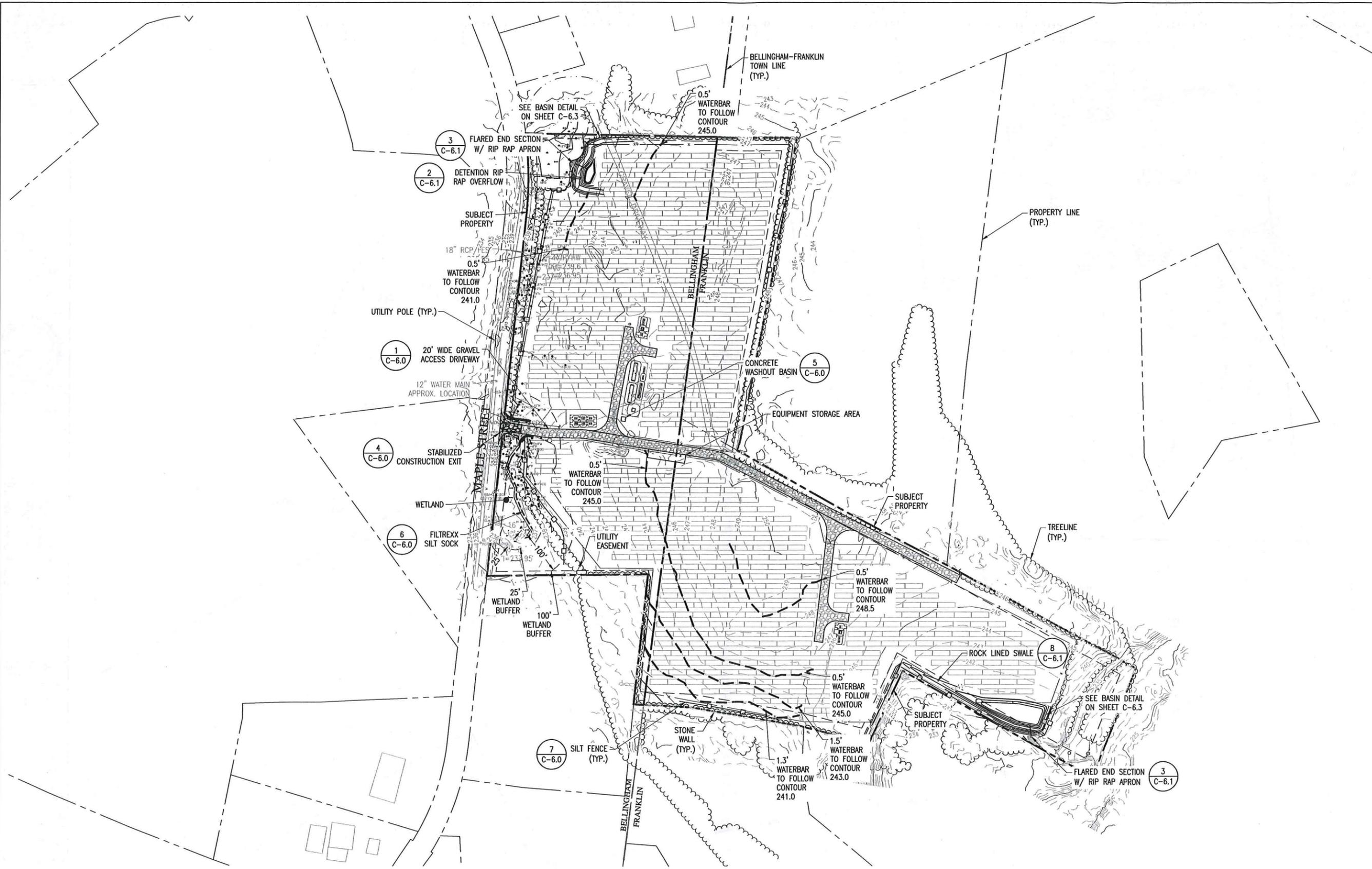
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SCALE: 1" = 100'

**C-4.0**  
GRADING AND EROSION CONTROL PLAN



**GRADING AND EROSION CONTROL PLAN**

SCALE: 1" = 100'  
0 100' 200'

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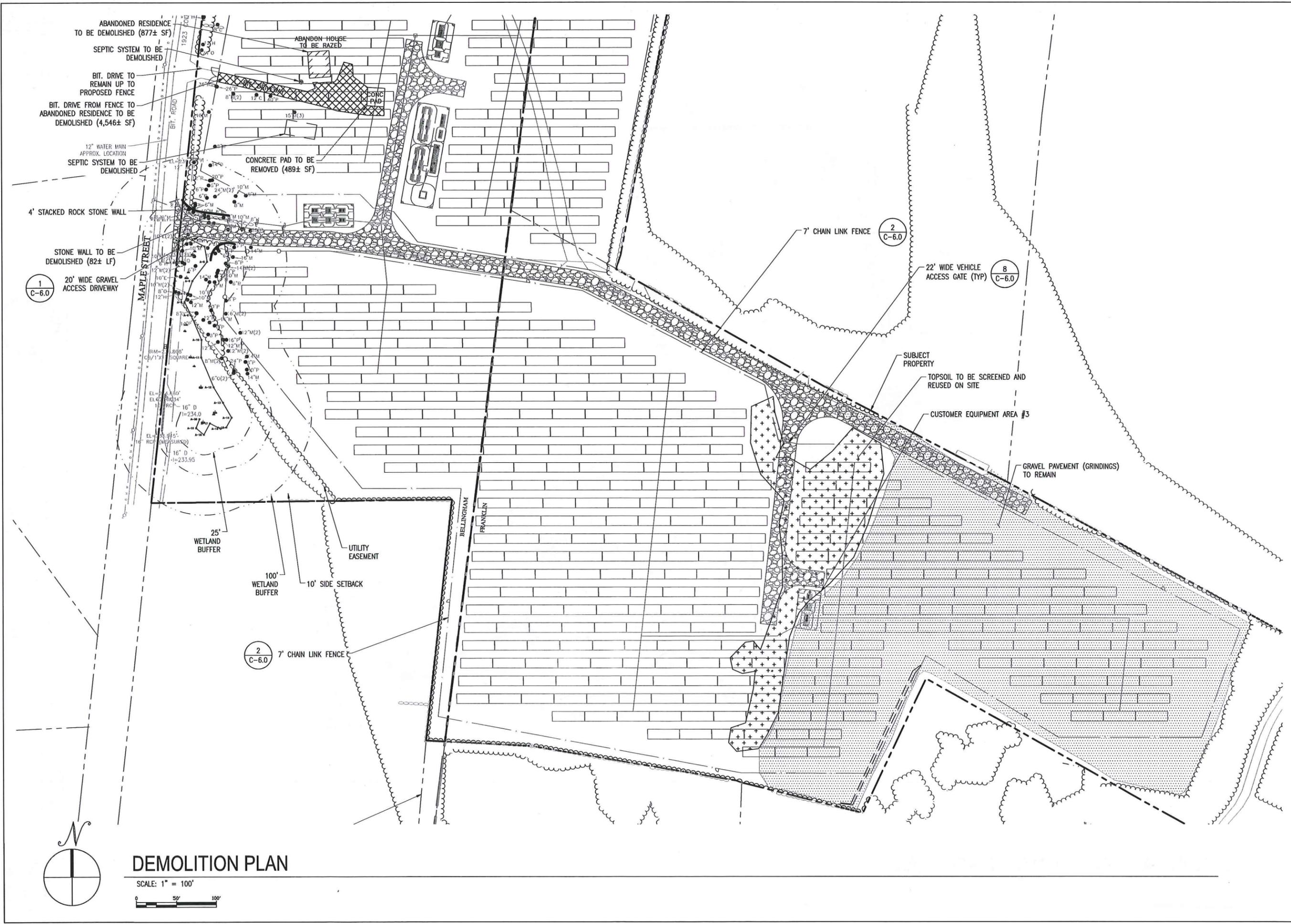
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**C-5.0**  
DEMOLITION PLAN

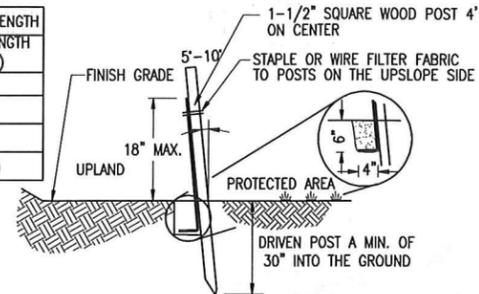


**DEMOLITION PLAN**

SCALE: 1" = 100'



MAX ALLOWABLE SLOPE LENGTH	MAX LENGTH (FT.)
2:1	25
3:1	50
4:1	75
5:1	100

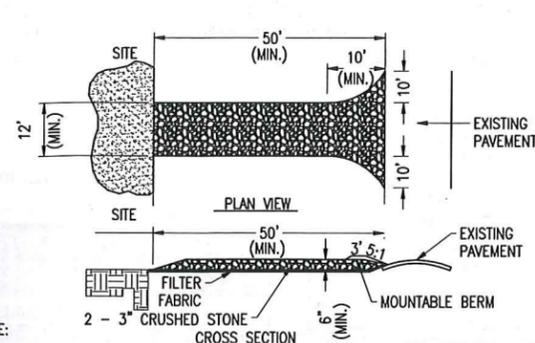


NOTES:

- MAX DRAINAGE AREA FOR OVERLAND FLOW SHALL NOT EXCEED 1/4 ACRE-FOOT PER 100 FEET OF FENCE.
- FILTER FABRIC TO BE FASTENED SECURELY TO FENCE POST WITH WIRE TIES OR STAPLES. POST SHALL BE STEEL EITHER "T" OR "U" SHAPED OR HARDWOOD.
- FILTER CLOTH SHALL BE FASTENED SECURELY WITH TIES SPACED EVERY 24" AT TOP AND MID-SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED. FILTER CLOTH SHALL BE FILTER X, MIRAFL 100X, STABILENKA T140N, OR APPROVED EQUAL.
- PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SEDIMENT FENCE.

7 SILT FENCE

SCALE: NTS  
XD\_CIVIL\_ENG004\_SILT\_FENCE\_P 2014-10-17

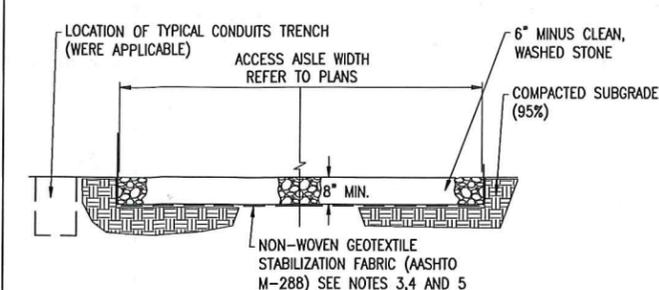


NOTE:

- ENTRANCE WIDTH SHALL BE A TWENTY-FOUR (24) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 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. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.

4 STABILIZED CONSTRUCTION EXIT

SCALE: NTS

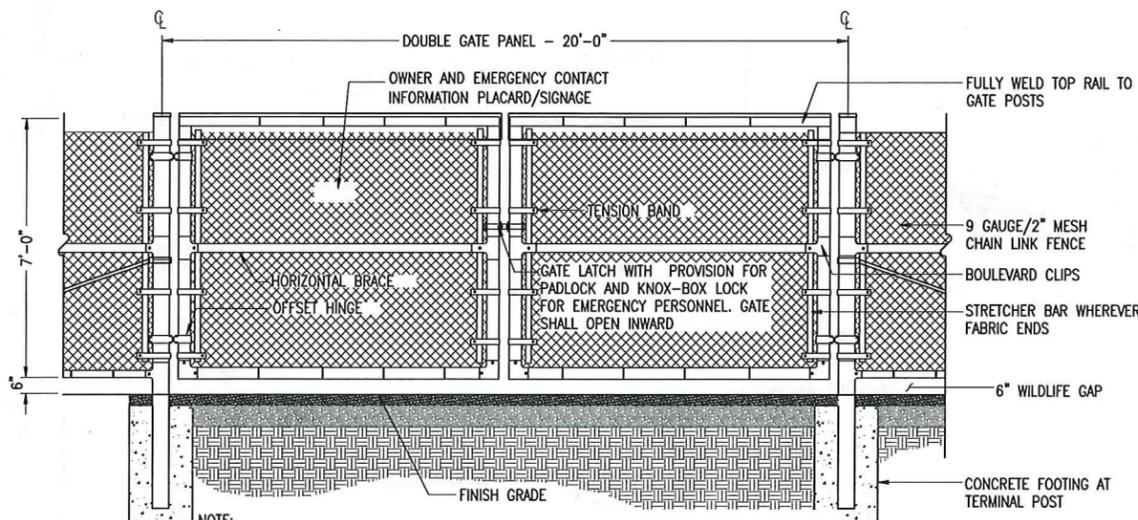


NOTES:

- SUBCONTRACTOR SHALL EXCAVATE TO SUITABLE MATERIAL FOR SUBGRADE.
- SUBCONTRACTOR SHALL COMPACT SUBGRADE TO PROVIDE SUITABLE SURFACE TO PLACE ROAD.
- GEOTEXTILE FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS:
  - TENSILE STRENGTH: 150 LB MIN.
  - ELONGATION: 50%
  - CBR PUNCTURE: 400 LB MIN.
  - MINIMUM WATER FLOW RATE: 120 GPM / FT<sup>2</sup>
- SUBCONTRACTOR SHALL FOLLOW GEOTEXTILE FABRIC MANUFACTURER INSTALLATION PROCEDURES.
- WHERE OVERLAPPING OF GEOTEXTILE FABRIC IS REQUIRED, SUBCONTRACTOR SHALL OVERLAP A MINIMUM OF 24".
- SUBCONTRACTOR SHALL REMOVE TEMPORARY CONSTRUCTION ACCESS ROADS, AND RESTORE TO PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CEOR AND THE GOVERNING AGENCIES.

1 GRAVEL ACCESS ROAD

SCALE: NTS  
XD\_CIVIL\_ENG006\_ROAD\_XT 07-24-2017

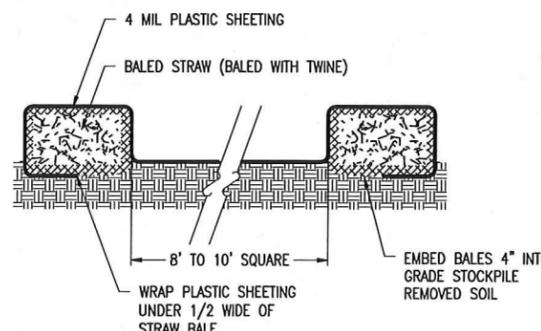


NOTE:

- FABRIC SHALL BE GALVANIZED.
- KNOX BOX TO BE INSTALLED AT THE VEHICLE GATE FOR FIRE ACCESS

8 VEHICLE GATE - WILDLIFE GAP

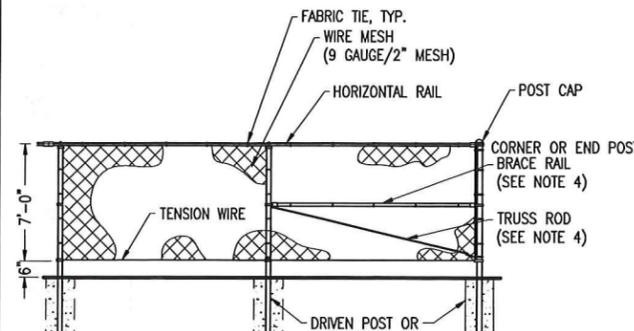
SCALE: NTS  
XD\_CIVIL\_ENG007\_GATE\_V 10-23-2018



NOTE: PLASTIC SHEETING SHALL BE FREE OF TEARS OR HOLES. AFTER BASIN IS USED, WASHWATER FROM WASHOUT BASIN SHALL EVAPORATE OR BE VACUUMED OUT. REMOVE REMAINING HARDENED SOLIDS. REPLACE PLASTIC SHEETING AND STRAWBALES AS REQUIRED.

5 CONCRETE WASHOUT BASINS

SCALE: NTS  
XD\_CIVIL\_ENG008\_WASHOUT\_BASIN 07-24-2017

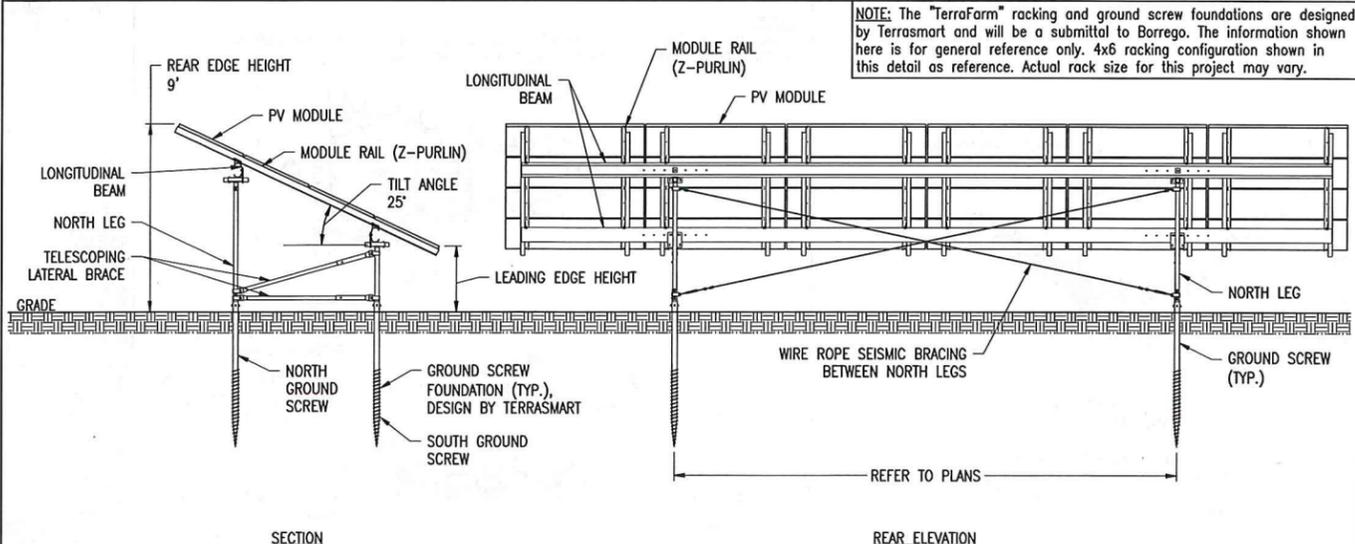


NOTES:

- THE FENCE SHALL MEET OR EXCEED THE CHAIN LINK FENCE MANUFACTURER INSTITUTE (CLFMI) GUIDELINES AND RELATED FEDERAL SPECIFICATIONS FOR SECURITY CHAIN LINK FENCE MATERIALS AND INSTALLATION.
- FENCE MATERIAL AND COMPONENTS SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
- THIS DETAIL NOT APPLICABLE FOR PRIVACY FENCE OR FENCE WITH SLATS.
- ADJUSTABLE TRUSS ROD AND BRACE RAIL AT CORNER OR END POSTS ONLY, IF REQUIRED BY CLFMI GUIDELINES.

2 CHAIN LINK FENCE - WILDLIFE GAP

SCALE: NTS  
XD\_CIVIL\_ENG009\_CHAIN\_LINK\_FENCE\_GAP 06-27-2018

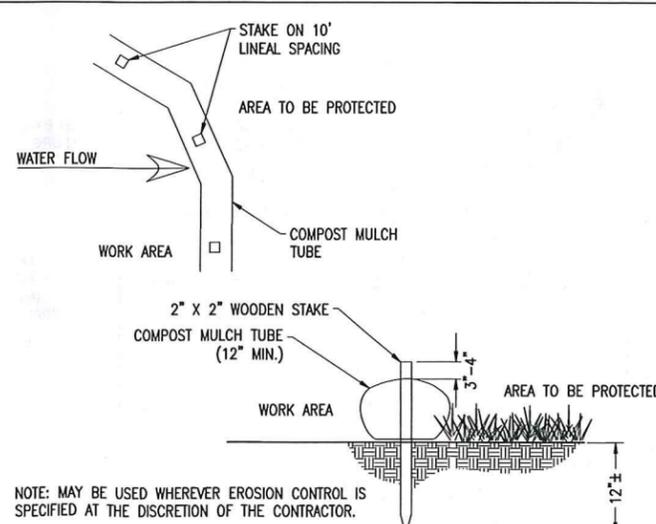


NOTE: The "TerraFarm" racking and ground screw foundations are designed by Terrasmart and will be a submittal to Borrego. The information shown here is for general reference only. 4x6 racking configuration shown in this detail as reference. Actual rack size for this project may vary.

9 TYPICAL RACK SECTION & REAR ELEVATION

TERRASMART TF3L

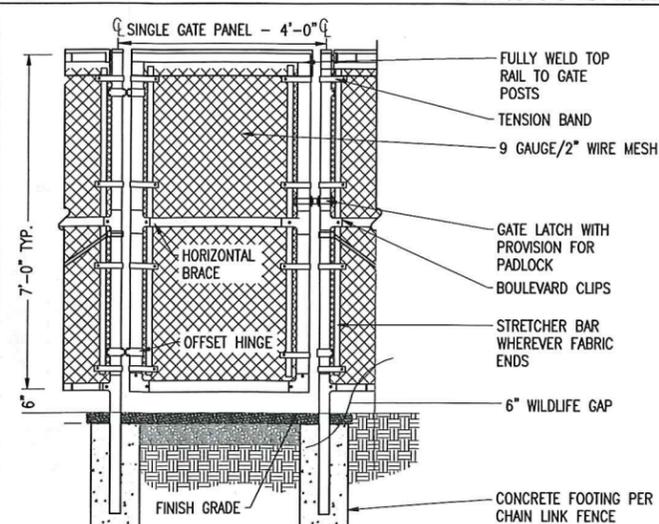
SCALE: NTS  
XD\_STRUCT\_TERRASMART\_TF3L\_RACK\_SECT & REAR ELEV 2018-12-03



NOTE: MAY BE USED WHEREVER EROSION CONTROL IS SPECIFIED AT THE DISCRETION OF THE CONTRACTOR.

6 MULCH TUBE

SCALE: NTS  
XD\_CIVIL\_ENG010\_FILTER\_SOCK 03-29-2018



- NOTE:
- FABRIC SHALL BE GALVANIZED
  - KNOX BOX TO BE INSTALLED AT ALL MAN GATES FOR FIRE ACCESS

3 4' MAN GATE - WILDLIFE GAP

SCALE: NTS

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NOT FOR CONSTRUCTION

DAVID M. ALBRECHT  
REGISTERED PROFESSIONAL ENGINEER  
July 24, 2019

David Albrecht

SITE USE PLAN  
186 MAPLE STREET  
BELLINGHAM, MA 02019

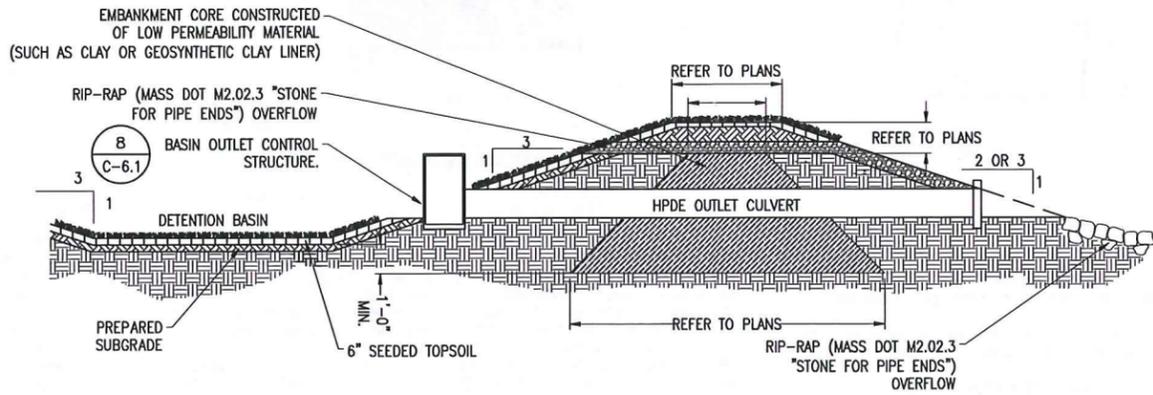
PROJECT NUMBER:  
905-2400

REV	DATE	BY	CHKD	RELEASE LEVEL
1	7/19/19	RMS	AW	INTX UPDATE TO 3MV
2	7/25/19	RJD	DA	SUBMISSION

SCALE: NTS  
XD\_CIVIL\_ENG011\_FILTER\_SOCK 03-29-2018

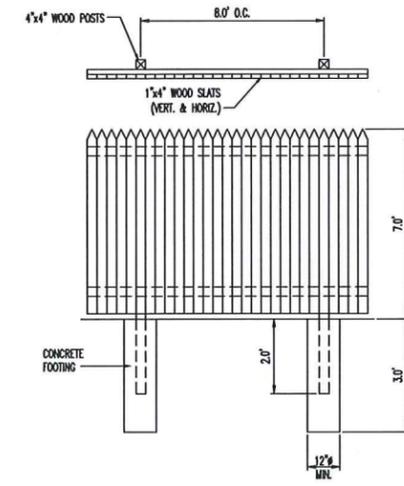
C-6.0  
CIVIL DETAILS

NOTES:  
1. ALL DIMENSIONS TO BE COORDINATED WITH PLANS



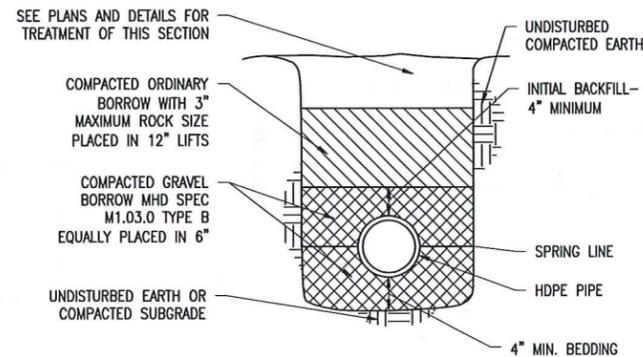
4 DETENTION BASIN WITH OUTLET CONTROL STRUCTURE

SCALE: NTS



1 STOCKADE FENCE DETAIL

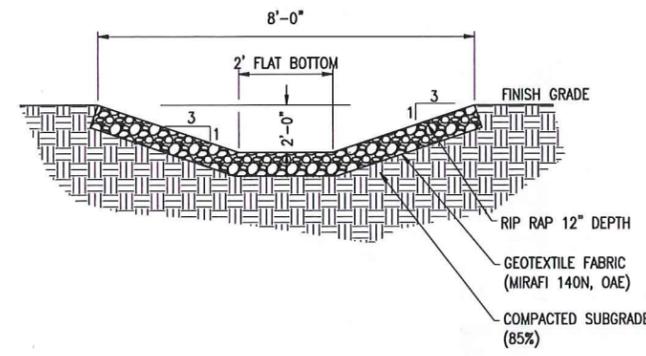
SCALE: NTS



NOTES:  
1. TRENCH EXCAVATION WIDTH TO ALLOW FOR FREE TRAVEL OF COMPACTION EQUIPMENT.  
2. ALL COMPACTION TO A MINIMUM 95 PERCENT DRY DENSITY DETERMINED BY ASTM D1557 SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

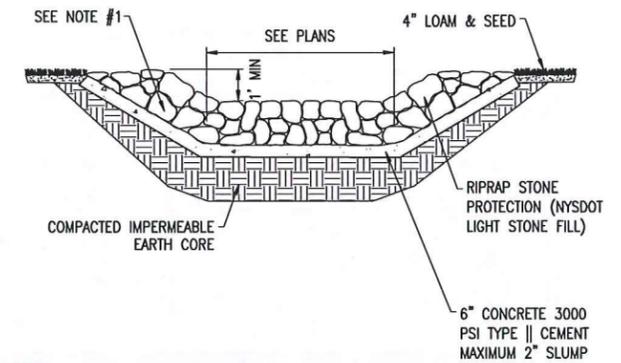
7 HDPE DRAIN PIPE BEDDING

SCALE: NTS  
XD\_CIVIL\_0\_HDPE DRAIN PIPE BEDDING 05-28-2018



5 ROCK-LINED SWALE

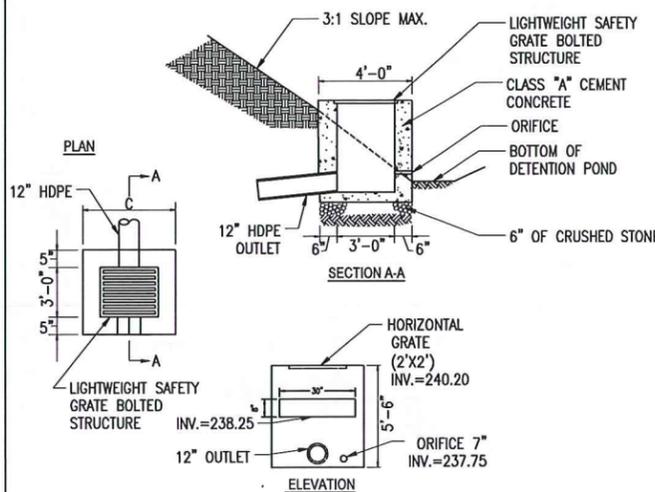
SCALE: NTS  
XD\_CIVIL\_DRAINAGE ROCK-LINED SWALE 06-27-2018



NOTES:  
1. HAND SET FIRST LAYER OF RIPRAP INTO CONCRETE TO APPROXIMATELY MID-DEPTH OF THE LAYER.  
2. HAND PLACE REMAINING RIPRAP AFTER CONCRETE HAS SET AND CHINK WITH SMALLER STONES.

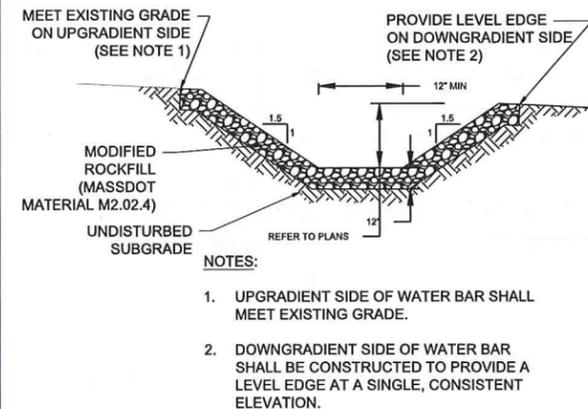
2 DETENTION BASIN RIP-RAP OVERFLOW

SCALE: NTS  
XD\_CIVIL\_DRAINAGE DETENTION BASIN RIP-RAP OVERFLOW 2018-08-15



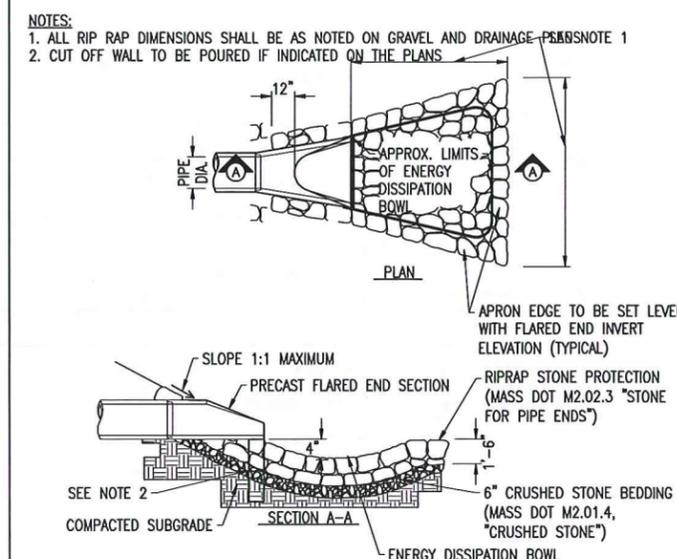
8 DETENTION POND OUTLET STRUCTURE

SCALE: NTS  
XD\_CIVIL\_0\_DETENTION POND OUTLET STRUCTURE 2018-12-27



6 WATER BAR DETAIL

SCALE: NTS  
XD\_CIVIL\_DRAINAGE FLARED END SECTION RIP-RAP APRON 2018-08-15



3 FLARED END SECTION/RIP-RAP APRON

SCALE: NTS  
XD\_CIVIL\_DRAINAGE FLARED END SECTION RIP-RAP APRON 2018-08-15

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NOT FOR CONSTRUCTION

DAVID M. ALBRECHT  
CIVIL  
NO. 37310  
REGISTERED PROFESSIONAL ENGINEER  
July 24, 2019

*David Albrecht*

SITE USE PLAN  
186 MAPLE STREET  
BELLINGHAM, MA 02019

PROJECT NUMBER:  
905-2400

REV	DATE	DRAWN	RMS	AW	CHECKED	RELEASE LEVEL
1	7/19/19	RMS				INTX UPDATE TO 3MV
2	7/23/19	RJD				DA SUBMISSION

SCALES SHOWN ON DRAWINGS ARE VALID ONLY WHEN PLOTTED AT 9" x 24" @ 3/4"

**C-6.1**  
CIVIL DETAILS

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July 24, 2019  
 David Albrecht

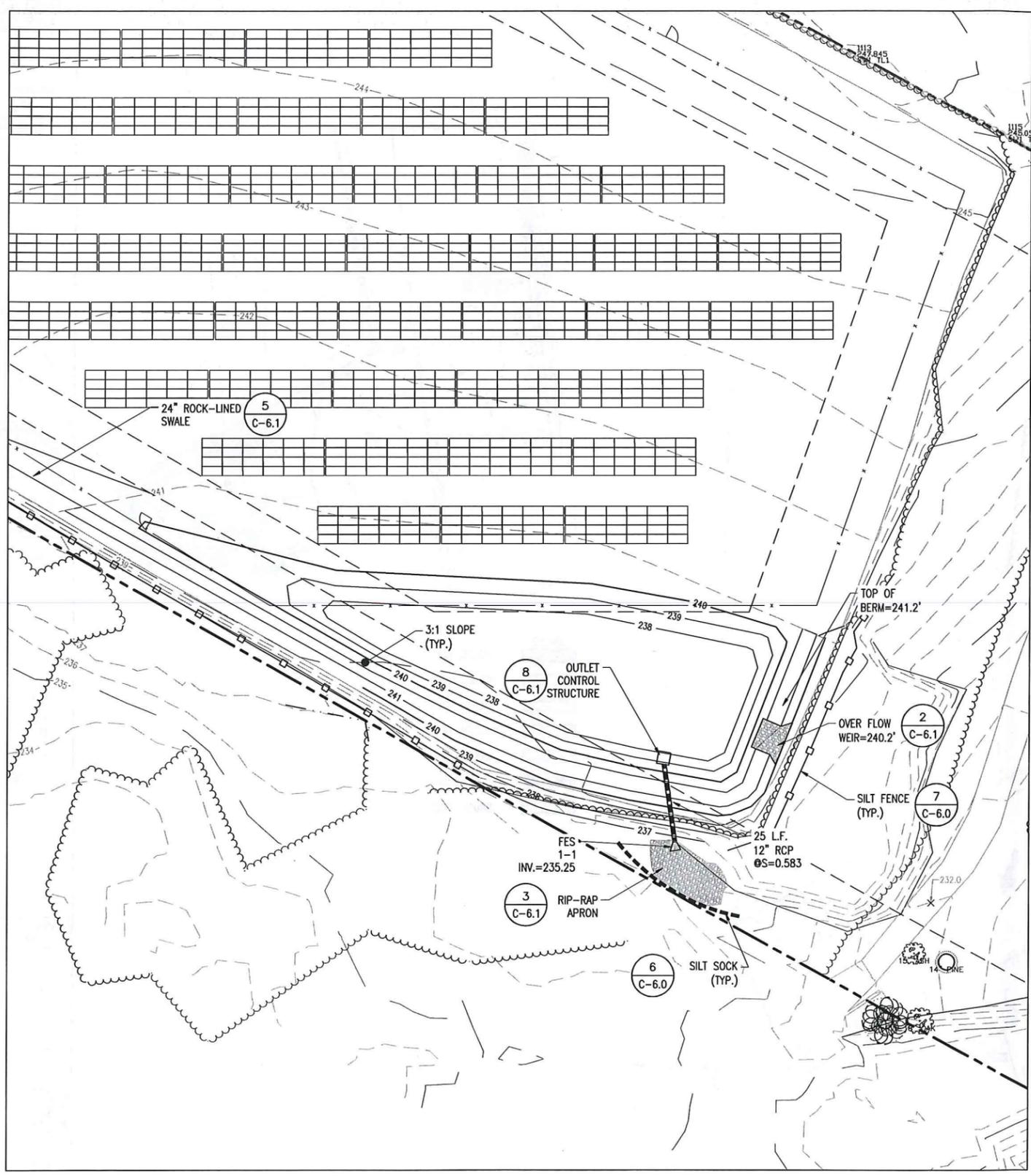
SITE USE PLAN  
 186 MAPLE STREET  
 BELLINGHAM, MA 02019

PROJECT NUMBER:  
 905-2400

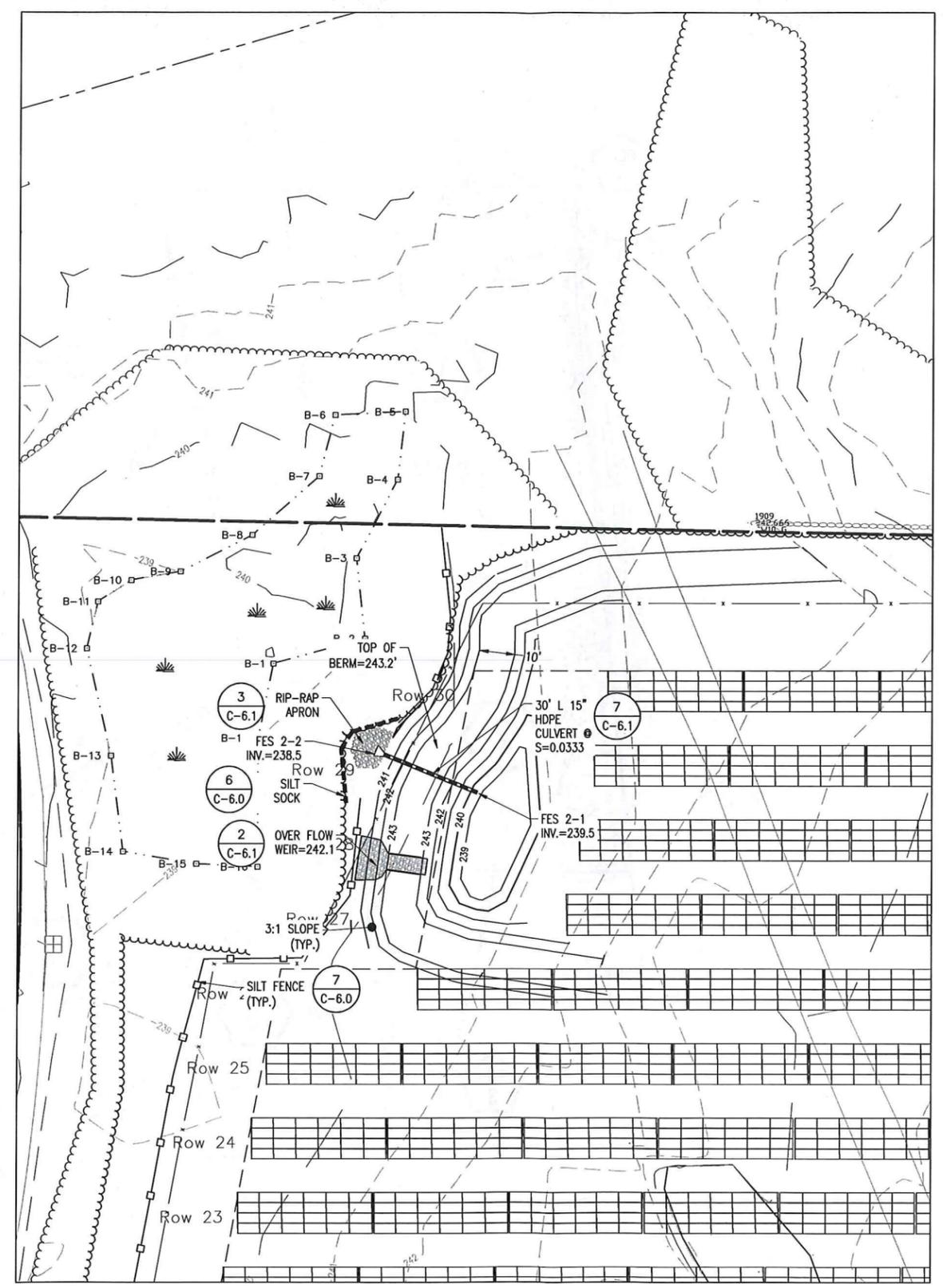
REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	7/19/19	RMS	AW	INTX. UPDATE TO 3M
2	7/23/19	RJD	DA	SUBMISSION

SCALE: 1" = 20'  
 ARE WALS ONLY FROM PLOTTED  
 MCH D 24" X 36"

**C-6.2**  
 BASIN DETAILS



**BASIN 1**  
 SCALE: 1" = 20'  
**BASIN DETAILS**



**BASIN 2**  
 SCALE: 1" = 20'

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 CIVIL ENGINEER  
 REG. NO. 37310  
 PROFESSIONAL ENGINEER  
 July 24, 2019

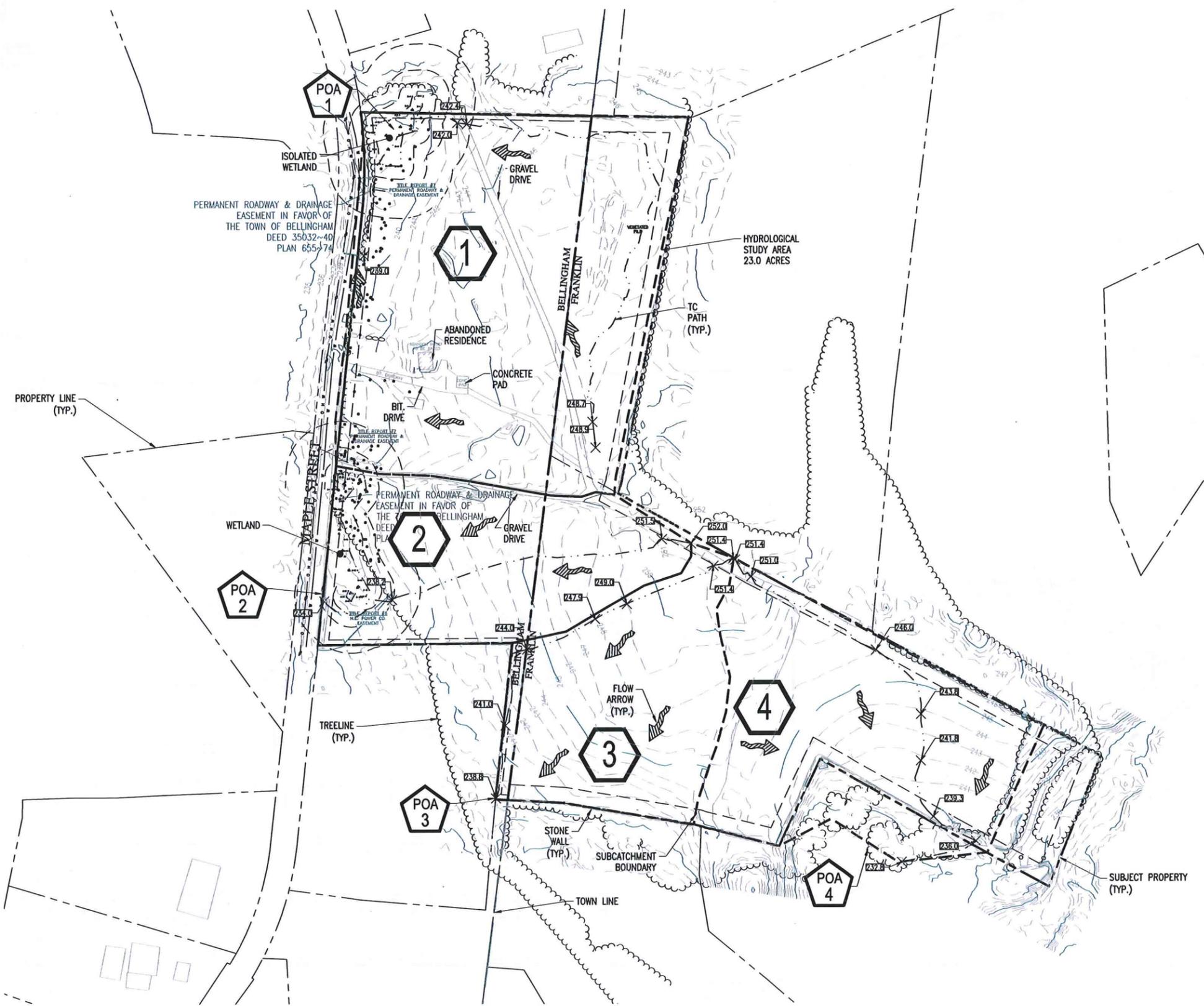
*David Albrecht*

SITE USE PLAN  
 186 MAPLE STREET  
 BELLINGHAM, MA 02019

PROJECT NUMBER:  
 905-2400

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
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2	7/23/19	RJD	DA	SUBMISSION

SCALES SHOWN ON DRAWINGS ARE VALID ONLY WHEN PLOTTED AND IN 24" x 36"  
**W-1.0**  
 PRE-DEVELOPMENT WATERSHED PLAN



- LEGEND**
- WOODS, GOOD
  - GRASS, FAIR
  - GRASS, POOR
  - WOODS, FAIR
  - GRAVEL, ROAD
  - DIRT, ROAD
  - BRUSH, GOOD



**PRE-DEVELOPMENT WATERSHED PLAN**

SCALE: 1" = 100'

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July 24, 2019  
*David Albruecht*

SITE USE PLAN  
186 MAPLE STREET  
BELLINGHAM, MA 02019

PROJECT NUMBER:  
905-2400

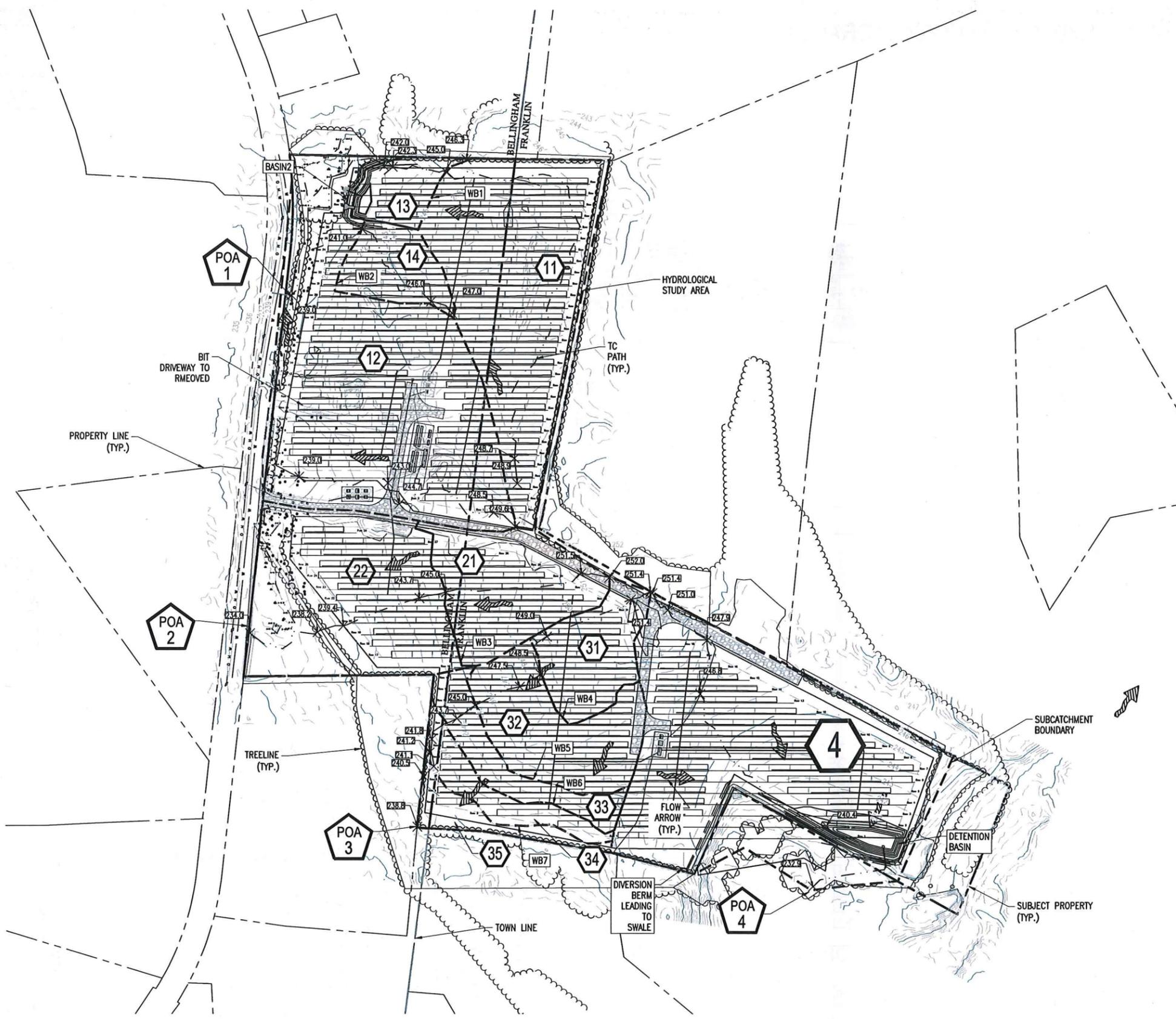
REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	7/19/19	RMS	AW	INTX. UPDATE TO 3MAY
2	7/23/19	RJD	DA	SUBMISSION

SCALE: 1" = 100'

W-2.0  
POST-DEVELOPMENT WATERSHED PLAN



- LEGEND**
- WOODS, GOOD
  - GRASS, FAIR
  - BRUSH, GOOD
  - GRAVEL, ROAD
  - DIRT, ROAD
  - MEADOW, GOOD
  - PAVED PARKING

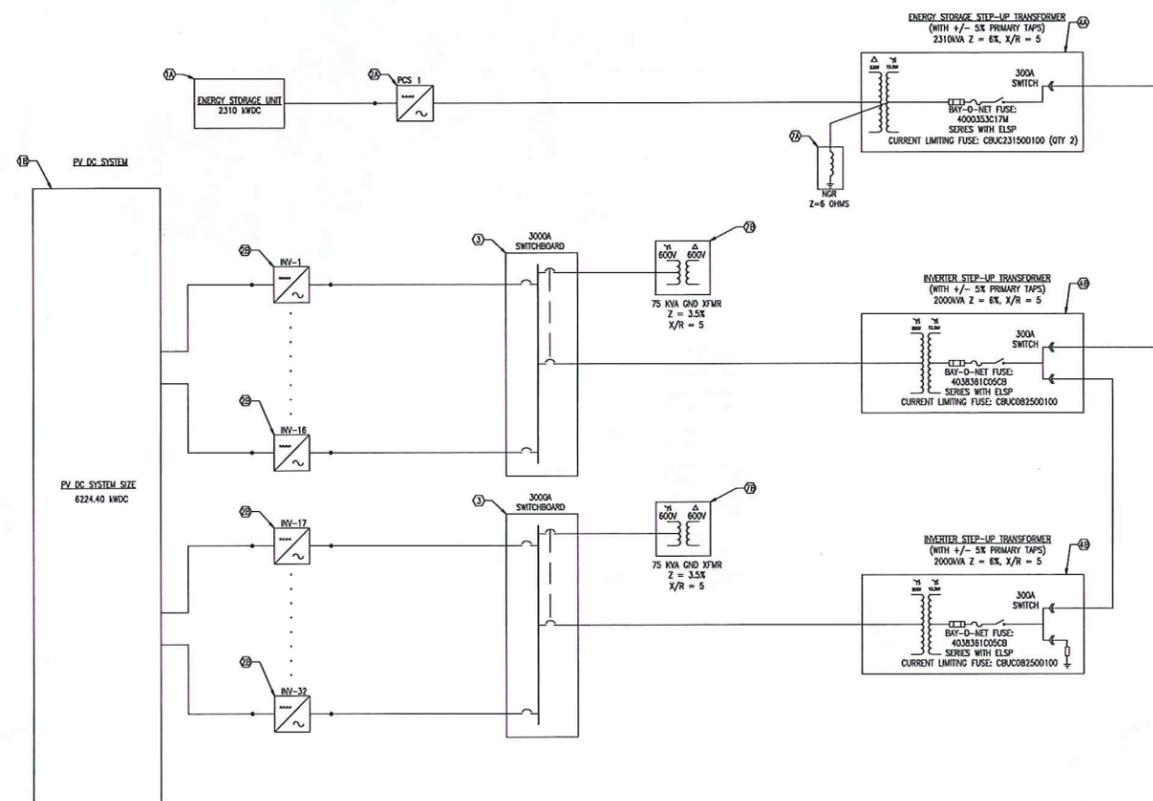


**POST DEVELOPMENT WATERSHED PLAN**

SCALE: 1" = 100'  
0 100' 200'

# 186 MAPLE ST. BELLINGHAM, MA - 6224.40 kW DC (4000kW PV - 2310 kW STORAGE)

SCALE: NTS



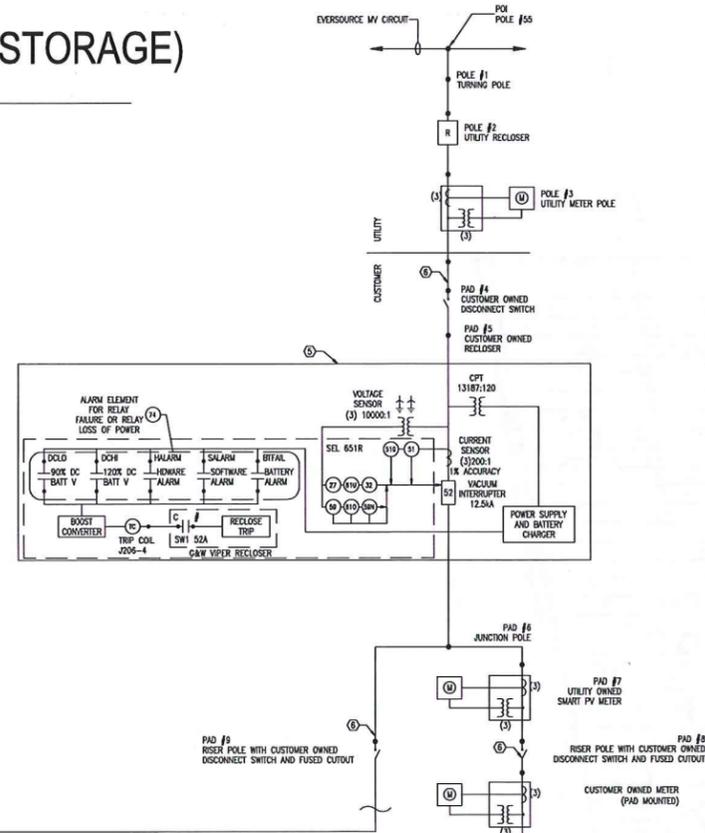
ELECTRICAL EQUIPMENT SCHEDULE		
REF. #	TOTAL	DESCRIPTION
1A	1	LITHIUM-ION BATTERY ENERGY STORAGE UNIT
1B	15,960	HANWHA 390W MODULES (STRINGS OF 27)
2A	1	POWER ELECTRONICS FREEMAQ FP2310 BIDIRECTIONAL POWER CONVERSION SYSTEM (PCS), UL LISTED, 530VAC, 3PHASE
2B	32	CHINT CPS SCH125KTL STRING INVERTER (15 OR 16 STRINGS PER INVERTER) 125kVA, 125kW, 600VAC, 3-PHASE
3	2	3000A SWITCHBOARD, 600VAC
4A	1	2310 KVA ENERGY STORAGE TRANSFORMER, 3 PHASE
4B	2	2000KVA TRANSFORMER, 3 PHASE
5	1	G&W POLE MOUNTED RECLOSER, VACUUM INTERRUPTER, WITH INTEGRATED SEL 651R MULTIFUNCTION RELAY
6	3	15KV POLE MOUNTED, 900A, 65KAIC, CUTSOMER-OWNED DISCONNECT LOAD BREAK SWITCH, GANG OPERATED, LOCKABLE
7A	1	NEUTRAL GROUNDING REACTOR, Z=6 OHMS
7B	2	GROUNDING TRANSFORMER, 75KVA, 3PH, 600D/600GWYE

## PROPOSED INVERTER SETTINGS

DEVICE	PICKUP	TIME DELAY	DESCRIPTION	NOTE
27-1	173	1.1 SEC	UNDERVOLTAGE RELAY	
27-2	305	2 SEC		
59-1	381	2 SEC	OVERVOLTAGE RELAY	
59-2	416	0.16 SEC		
81U-1	56.5 HZ	0.16 SEC	OVER/UNDERFREQUENCY	
81U-2	58.5 HZ	300 SEC		
810-1	61.2 HZ	300 SEC		
810-2	62 HZ	0.16 SEC		

## PROPOSED PCS INVERTER SETTINGS

DEVICE	PICKUP	TIME DELAY	DESCRIPTION	NOTE
27-1	265	1.1 SEC	UNDERVOLTAGE RELAY	
27-2	466	2 SEC		
59-1	583	2 SEC	OVERVOLTAGE RELAY	
59-2	636	0.16 SEC		
81U-1	56.5 HZ	0.16 SEC	OVER/UNDERFREQUENCY	
81U-2	58.5 HZ	300 SEC		
810-1	61.2 HZ	300 SEC		
810-2	62 HZ	0.16 SEC		



## PROPOSED RELAY SETTINGS

DEVICE	PRIMARY PICKUP	TIME DELAY	TOTAL CLEARING TIME	DESCRIPTION	NOTE
27-1	3811	1.05 SEC	1.1 SEC	UNDERVOLTAGE RELAY	
27-2	6706	1.95 SEC	2 SEC		
59-1	8383	1.95 SEC	2 SEC	OVERVOLTAGE RELAY	
59-2	9145	0.117 SEC	0.16 SEC		
81U-1	56.5 HZ	0.117 SEC	0.16 SEC	UNDERFREQUENCY	
81U-2	58.5 HZ	299.95 SEC	300 SEC		
810-1	61.2 HZ	299.95 SEC	300 SEC	OVERFREQUENCY	
810-2	62 HZ	0.117 SEC	0.16 SEC		
32	>4000KW TOWARD UTILITY	4.95 SEC	5.0 SEC	DIRECTIONAL POWER	
51G	131	TD: 1.5 CURVE: U4		EXTREMELY INVERSE OVER CURRENT	
51	262	TD: 2.0 CURVE: U4		EXTREMELY INVERSE GROUND OVER CURRENT	

NOTE: DIRECTIONAL POWER RELAY (FUNCTION 32) WILL BE TO LIMIT TOTAL DISTRIBUTED ENERGY RESOURCE (PV AND BATTERY) GENERATION TO 5.0MWAC

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186 MAPLE STREET  
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PROJECT NUMBER:  
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1	7/19/19	RMS	AW	INTX	UPDATE TO 3MV
2	7/23/19	RJD	DA	SUBMISSION	

SCALES STARTED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED  
ANSI 9.24" x 36"

**E-2.1**  
INTERCONNECTION SINGLE LINE