

# SITE USE PLANS

150 THONET ROAD, WAREHAM, MA 02571

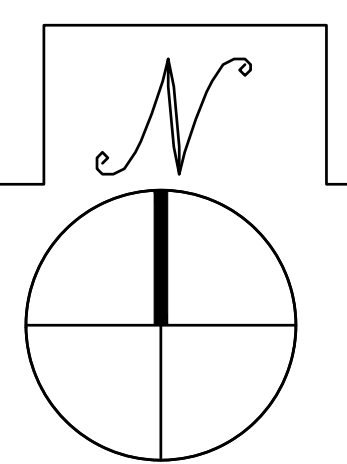
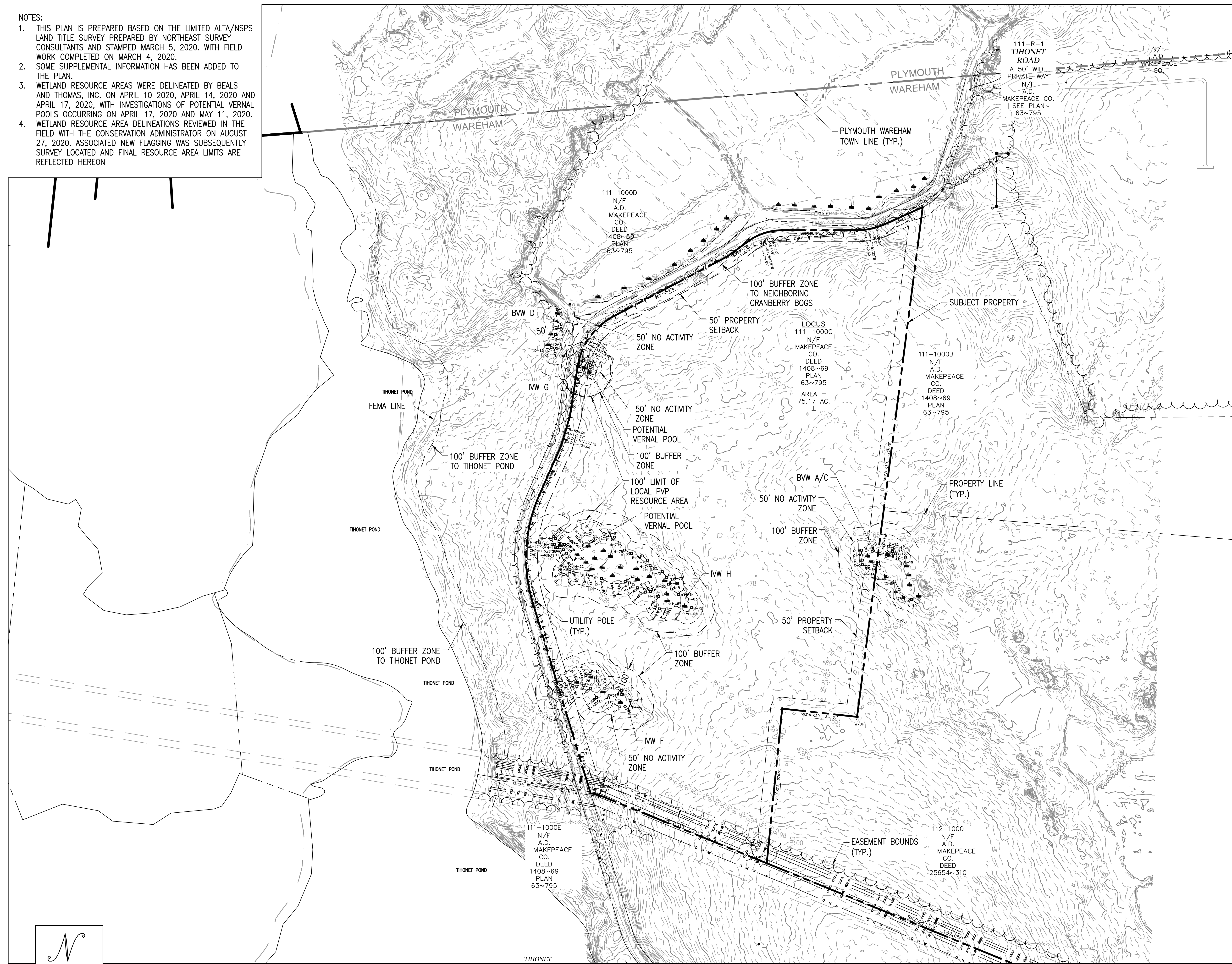
## SOLAR PHOTOVOLTAIC AND ENERGY STORAGE ELECTRIC SYSTEM

GENERAL NOTES	PROJECT SCOPE	LOCATION MAP	DRAWING LIST																																																																																																																													
<ol style="list-style-type: none"> <li>AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE BORREGO SOLAR SYSTEMS, INC AND "SUBCONTRACTOR" IS BORREGO'S INSTALLATION SUBCONTRACTOR.</li> <li>THESE NOTES SET MINIMUM STANDARDS FOR CONSTRUCTION. THE DRAWINGS GOVERN OVER THESE NOTES TO THE EXTENT SHOWN.</li> <li>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.</li> <li>EXCEPTIONS TO THE CONTRACT DOCUMENTS ARE PERMITTED ONLY WITH THE APPROVAL OF BORREGO.</li> <li>COORDINATE THESE DRAWINGS WITH SPECIFICATIONS AND MANUFACTURER INSTALLATION AND OPERATION MANUALS AND NOTIFY BORREGO OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT ARE NEW.</li> <li>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.</li> <li>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.</li> <li>ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND NEW DEVICES AND EQUIPMENT TO MATCH EXISTING FINISHES.</li> <li>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.</li> <li>NO STRUCTURAL MEMBER SHALL BE DRILLED UNLESS SPECIFICALLY AUTHORIZED BY BORREGO.</li> <li>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.</li> <li>TREES MAY GROW DURING THE LIFE OF THE SYSTEM AND IMPACT THE PRODUCTION.</li> </ol> <p style="text-align: right;">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 TGP 2x12 MOUNTED RACKING SYSTEM. THE MODULES WILL BE WIRED IN SERIES STRINGS AND CONNECTED IN PARALLEL TO THE INVERTERS, 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 ELECTRIC CODE AND EVERSOURCE REQUIREMENTS.</p> <p>THIS PROJECT CONSISTS OF THE INSTALLATION OF ENERGY STORAGE EQUIPMENT, PER THE SYSTEM DESCRIPTION, BELOW. THE LITHIUM-ION 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 AND WILL CONVERT AC TO DC WHILE THE BATTERIES ARE CHARGING.</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>OVERALL LAYOUT AND MATERIALS PLAN</td> </tr> <tr> <td>C-3.1</td> <td>LAYOUT AND MATERIALS PLAN - NORTH</td> </tr> <tr> <td>C-3.2</td> <td>LAYOUT AND MATERIALS PLAN - SOUTH</td> </tr> <tr> <td>C-4.0</td> <td>OVERALL GRADING AND EROSION CONTROL PLAN</td> </tr> <tr> <td>C-4.1</td> <td>GRADING AND EROSION CONTROL PLAN - NORTH</td> </tr> <tr> <td>C-4.2</td> <td>GRADING AND EROSION CONTROL PLAN - SOUTH</td> </tr> <tr> <td>C-4.3</td> <td>GRADING AND EROSION CONTROL PLAN - BASIN 1, 2, 3</td> </tr> <tr> <td>C-4.4</td> <td>GRADING AND EROSION CONTROL PLAN - BASIN 4</td> </tr> <tr> <td>C-4.5</td> <td>GRADING AND EROSION CONTROL PLAN - BASIN 5</td> </tr> <tr> <td>C-4.6</td> <td>GRADING AND EROSION CONTROL PLAN - DRIVEWAYS</td> </tr> <tr> <td>C-5.0</td> <td>CIVIL DETAILS</td> </tr> <tr> <td>C-5.1</td> <td>CIVIL DETAILS</td> </tr> <tr> <td>E-1.0</td> <td>ELECTRICAL SITE PLAN</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	OVERALL LAYOUT AND MATERIALS PLAN	C-3.1	LAYOUT AND MATERIALS PLAN - NORTH	C-3.2	LAYOUT AND MATERIALS PLAN - SOUTH	C-4.0	OVERALL GRADING AND EROSION CONTROL PLAN	C-4.1	GRADING AND EROSION CONTROL PLAN - NORTH	C-4.2	GRADING AND EROSION CONTROL PLAN - SOUTH	C-4.3	GRADING AND EROSION CONTROL PLAN - BASIN 1, 2, 3	C-4.4	GRADING AND EROSION CONTROL PLAN - BASIN 4	C-4.5	GRADING AND EROSION CONTROL PLAN - BASIN 5	C-4.6	GRADING AND EROSION CONTROL PLAN - DRIVEWAYS	C-5.0	CIVIL DETAILS	C-5.1	CIVIL DETAILS	E-1.0	ELECTRICAL SITE PLAN																																																																																									
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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 APPLICATION UL-9540 - STANDARD FOR ENERGY STORAGE SYSTEM AND EQUIPMENT</p>	<p><b>PROJECT DIRECTORY</b></p> <table border="1"> <tr> <td><b>SYSTEM / PROJECT OWNER</b> TBD</td> <td><b>CIVIL ENGINEER</b> FIRM: BEALS AND THOMAS, INC. CONTACT: JEFFREY R. MURPHY, P.E. PHONE: (508)-366-0560</td> </tr> <tr> <td><b>LAND OWNER / HOST</b> A.D. 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ARY	ARRAY	OD	OUTSIDE DIAMETER																																																																																																																													
BLDG	BUILDING	OF/CI	OWNER FURNISHED CONTRACTOR INSTALLED																																																																																																																													
BSS	BORREGO SOLAR SYSTEM	PV	PHOTOVOLTAIC																																																																																																																													
CL	CENTERLINE	PVC	POLY VINYL CHLORIDE																																																																																																																													
DAS	DATA ACQUISITION SYSTEM	SCH	SCHEDULE																																																																																																																													
DIA	DIAMETER	SS	STAINLESS STEEL																																																																																																																													
DO	DITTO	SSS	SOLAR SUPPORT STRUCTURE																																																																																																																													
EW	EAST-WEST	STC	STANDARD TEST CONDITIONS																																																																																																																													
FBO	FURNISHED BY OTHERS	TBD	TO BE DETERMINED																																																																																																																													
FF	FORWARD FACING	TP	TAMPER PROOF																																																																																																																													
GALV	GALVANIZED	TYP	TYPICAL																																																																																																																													
HDG	HOT DIP GALVANIZED	UON	UNLESS OTHERWISE NOTED																																																																																																																													
HVAC	HEATING VENTILATION AND AIR CONDITIONING	VIF	VERIFY IN FIELD																																																																																																																													
ID	INSIDE DIAMETER	WP	WEATHER PROOF																																																																																																																													
MFR	MANUFACTURER																																																																																																																															
MOD	SOLAR MODULE																																																																																																																															
REV	DATE	DRAWN	CHECKED	RELEASE LEVEL																																																																																																																												
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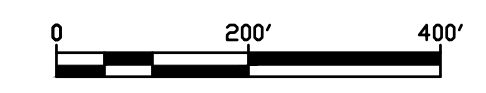
**NOTES:**

1. THIS PLAN IS PREPARED BASED ON THE LIMITED ALTA/NSPS LAND TITLE SURVEY PREPARED BY NORTHEAST SURVEY CONSULTANTS AND STAMPED MARCH 5, 2020. WITH FIELD WORK COMPLETED ON MARCH 4, 2020.
2. SOME SUPPLEMENTAL INFORMATION HAS BEEN ADDED TO THE PLAN.
3. WETLAND RESOURCE AREAS WERE DELINEATED BY BEALS AND THOMAS, INC. ON APRIL 10 2020, APRIL 14, 2020 AND APRIL 17, 2020, WITH INVESTIGATIONS OF POTENTIAL VERNAL POOLS OCCURRING ON APRIL 17, 2020 AND MAY 11, 2020.
4. WETLAND RESOURCE AREA DELINEATIONS REVIEWED IN THE FIELD WITH THE CONSERVATION ADMINISTRATOR ON AUGUST 27, 2020. ASSOCIATED NEW FLAGGING WAS SUBSEQUENTLY SURVEY LOCATED AND FINAL RESOURCE AREA LIMITS ARE REFLECTED HEREON



**EXISTING CONDITIONS PLAN**

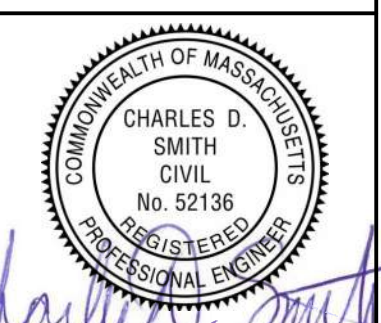
SCALE: 1" = 200'



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NOT FOR CONSTRUCTION



*Charles D. Smith*  
12/15/20

SITE USE PLANS  
150 THONET ROAD  
WAREHAM, MA 02571

PROJECT NUMBER:  
905-2710

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
06/08/20	WS	DTL	AW	ISSUED FOR LOCAL PERMITTING
08/14/20	WS	DTL	AW	UTILITY SUBMISSION
08/19/20	WS	WS	DS	CREATE SIGHT LINE EXHIBIT
11/02/20	WS	WS	DS	RESUBMISSION TO LOCAL AHJ
11/23/20	WS	WS	JM	RESUBMISSION TO LOCAL AHJ
12/14/20	WS	WS	JM	RESUBMISSION TO LOCAL AHJ

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

**C-1.0**  
EXISTING CONDITIONS PLAN







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 LOWELL, MA 01851  
 PHONE: (888) 808-4273  
 FAX: (888) 843-6778  
 WWW.BORREGOSSOLAR.COM

NOT FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS  
 JEFFREY R. MURPHY  
 CIVIL  
 No. 51800  
 REGISTERED PROFESSIONAL ENGINEER  
*Jeffrey R. Murphy*  
 12/15/2020

SITE USE PLANS  
 150 THONET ROAD  
 WAREHAM, MA 02571

PROJECT NUMBER:  
 905-2710

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	06/08/20	WS	DS	ISSUED FOR LOCAL PERMITTING
	08/14/20	DTL	AW	UTILITY SUBMISSION
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	12/15/20	WS	JM	RESUBMISSION TO LOCAL AHJ

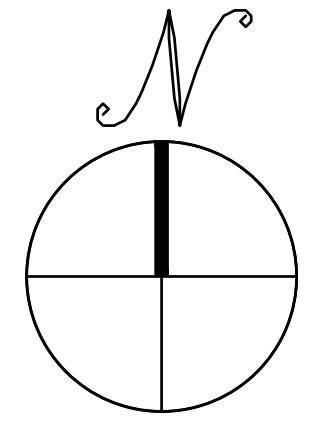
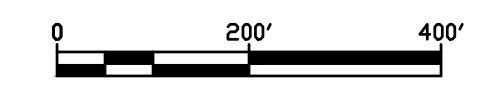
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

**C-3.0**  
 OVERALL LAYOUT AND MATERIALS PLAN



**OVERALL LAYOUT AND MATERIALS PLAN**

SCALE: 1" = 200'

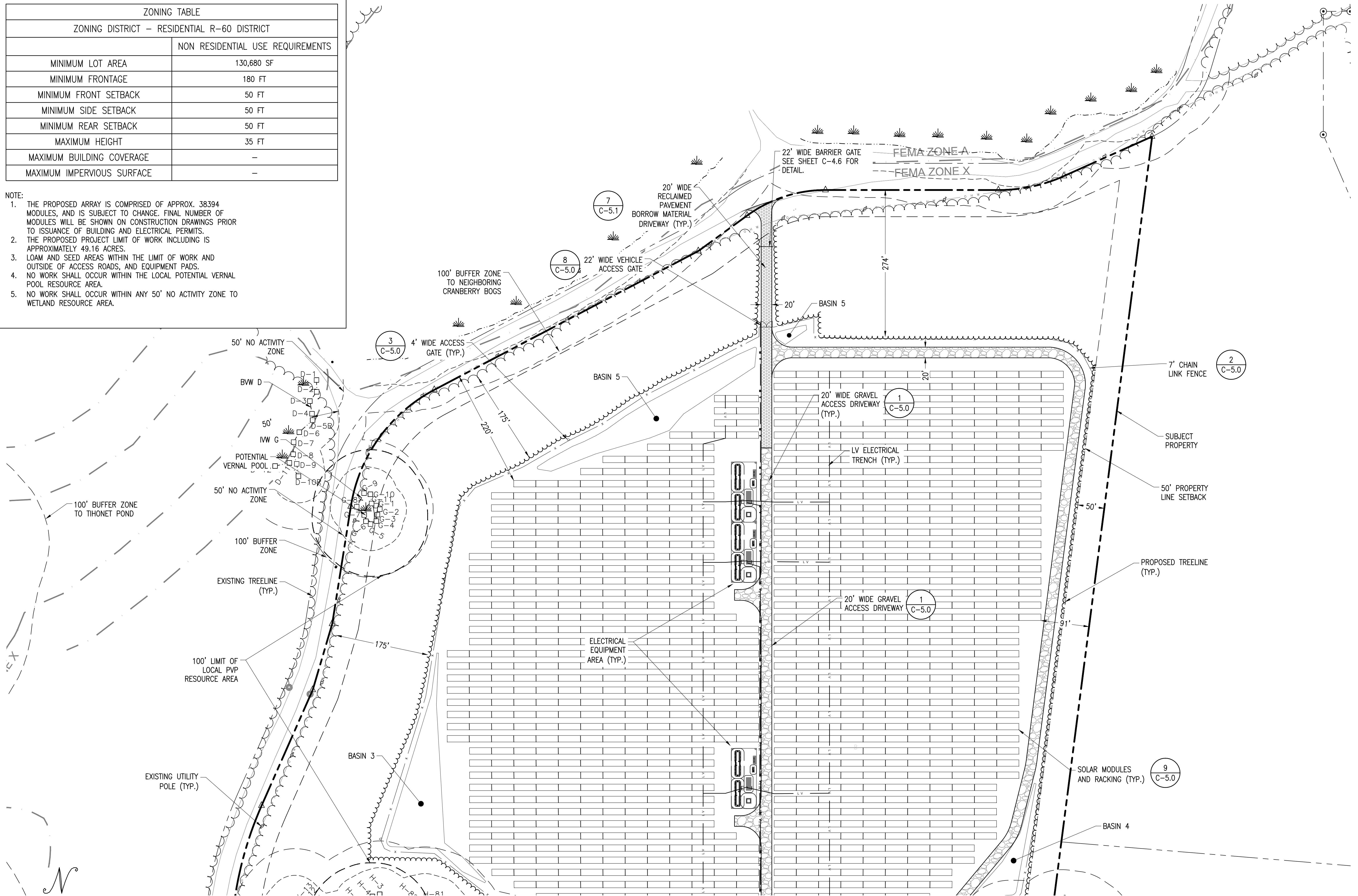




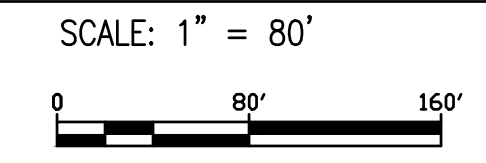
ZONING TABLE	
ZONING DISTRICT - RESIDENTIAL R-60 DISTRICT	
	NON RESIDENTIAL USE REQUIREMENTS
MINIMUM LOT AREA	130,680 SF
MINIMUM FRONTAGE	180 FT
MINIMUM FRONT SETBACK	50 FT
MINIMUM SIDE SETBACK	50 FT
MINIMUM REAR SETBACK	50 FT
MAXIMUM HEIGHT	35 FT
MAXIMUM BUILDING COVERAGE	-
MAXIMUM IMPERVIOUS SURFACE	-

NOTE:

1. THE PROPOSED ARRAY IS COMPRISED OF APPROX. 38394 MODULES, AND IS SUBJECT TO CHANGE. FINAL NUMBER OF MODULES WILL BE SHOWN ON CONSTRUCTION DRAWINGS PRIOR TO ISSUANCE OF BUILDING AND ELECTRICAL PERMITS.
2. THE PROPOSED PROJECT LIMIT OF WORK INCLUDING IS APPROXIMATELY 49.16 ACRES.
3. LOAM AND SEED AREAS WITHIN THE LIMIT OF WORK AND OUTSIDE OF ACCESS ROADS, AND EQUIPMENT PADS.
4. NO WORK SHALL OCCUR WITHIN THE LOCAL POTENTIAL VERNAL POOL RESOURCE AREA.
5. NO WORK SHALL OCCUR WITHIN ANY 50' NO ACTIVITY ZONE TO WETLAND RESOURCE AREA.



LAYOUT AND MATERIALS PLAN - NORTH



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NOT FOR CONSTRUCTION

JEFFREY R. MURPHY  
CIVIL  
No. 51800  
REGISTERED PROFESSIONAL ENGINEER  
12/15/2020

SITE USE PLANS  
150 THONET ROAD  
WAREHAM, MA 02571

PROJECT NUMBER:  
905-2710

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	11/23/20	WS	JM	RESUBMISSION TO LOCAL AHJ
	12/15/20	WS	JM	RESUBMISSION TO LOCAL AHJ

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-3.1  
LAYOUT AND MATERIALS PLAN - NORTH



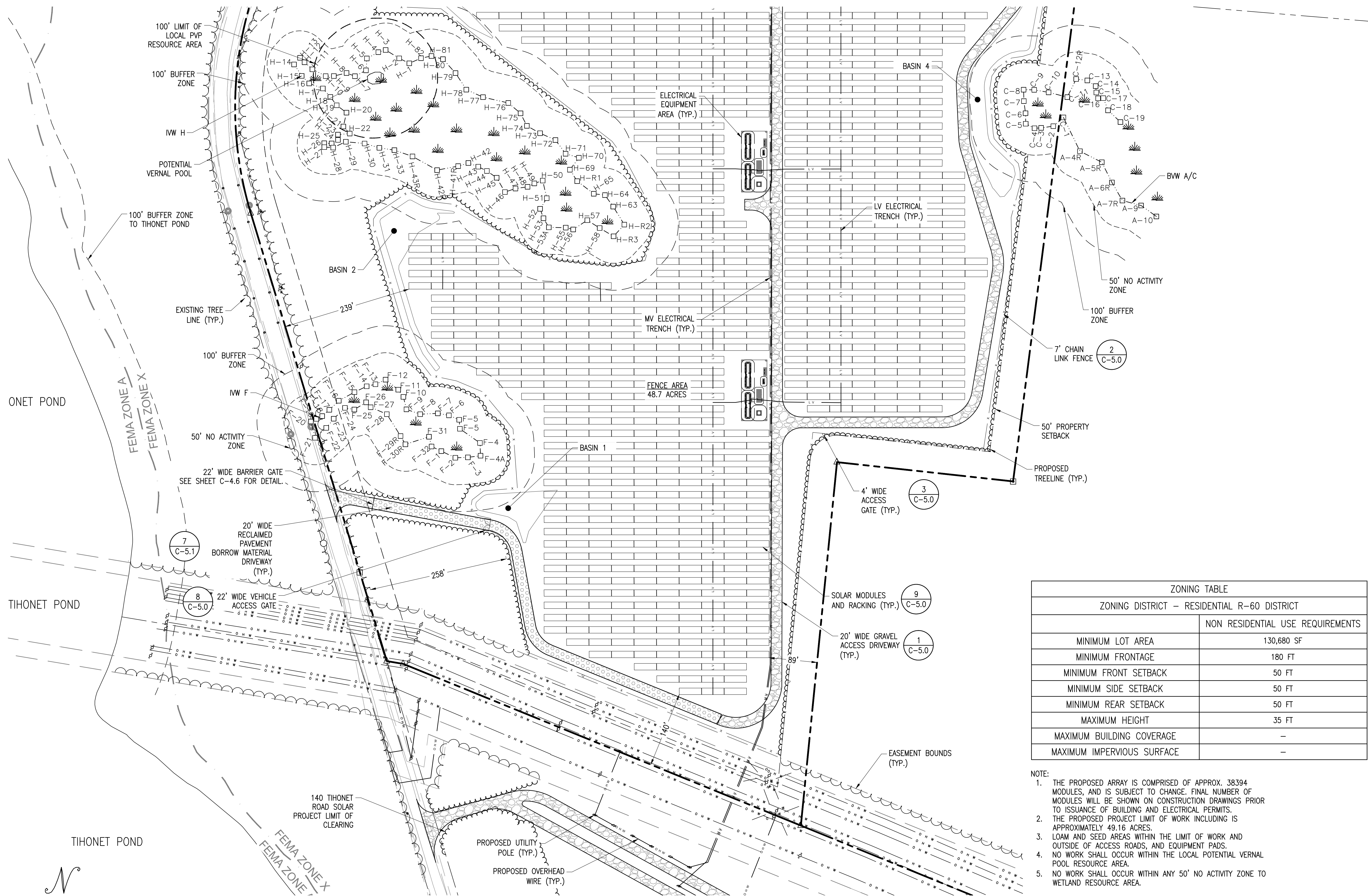
NOT FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS  
 JEFFREY R. MURPHY  
 CIVIL  
 No. 51800  
 REGISTERED PROFESSIONAL ENGINEER  
 Jeffrey R. Murphy  
 12/15/2020

SITE USE PLANS  
 150 THONET ROAD  
 WAREHAM, MA 02571

PROJECT NUMBER:  
 905-2710

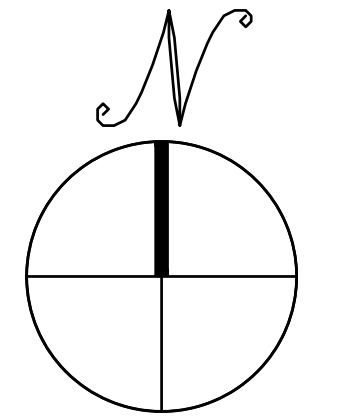
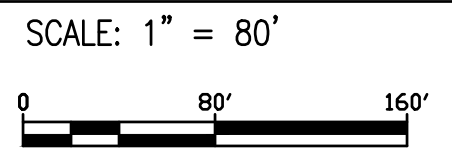
REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	06/08/20	WS	DS	ISSUED FOR LOCAL PERMITTING
	08/14/20	DTL	AW	UTILITY SUBMISSION
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	12/15/20	WS	JM	RESUBMISSION TO LOCAL AHJ



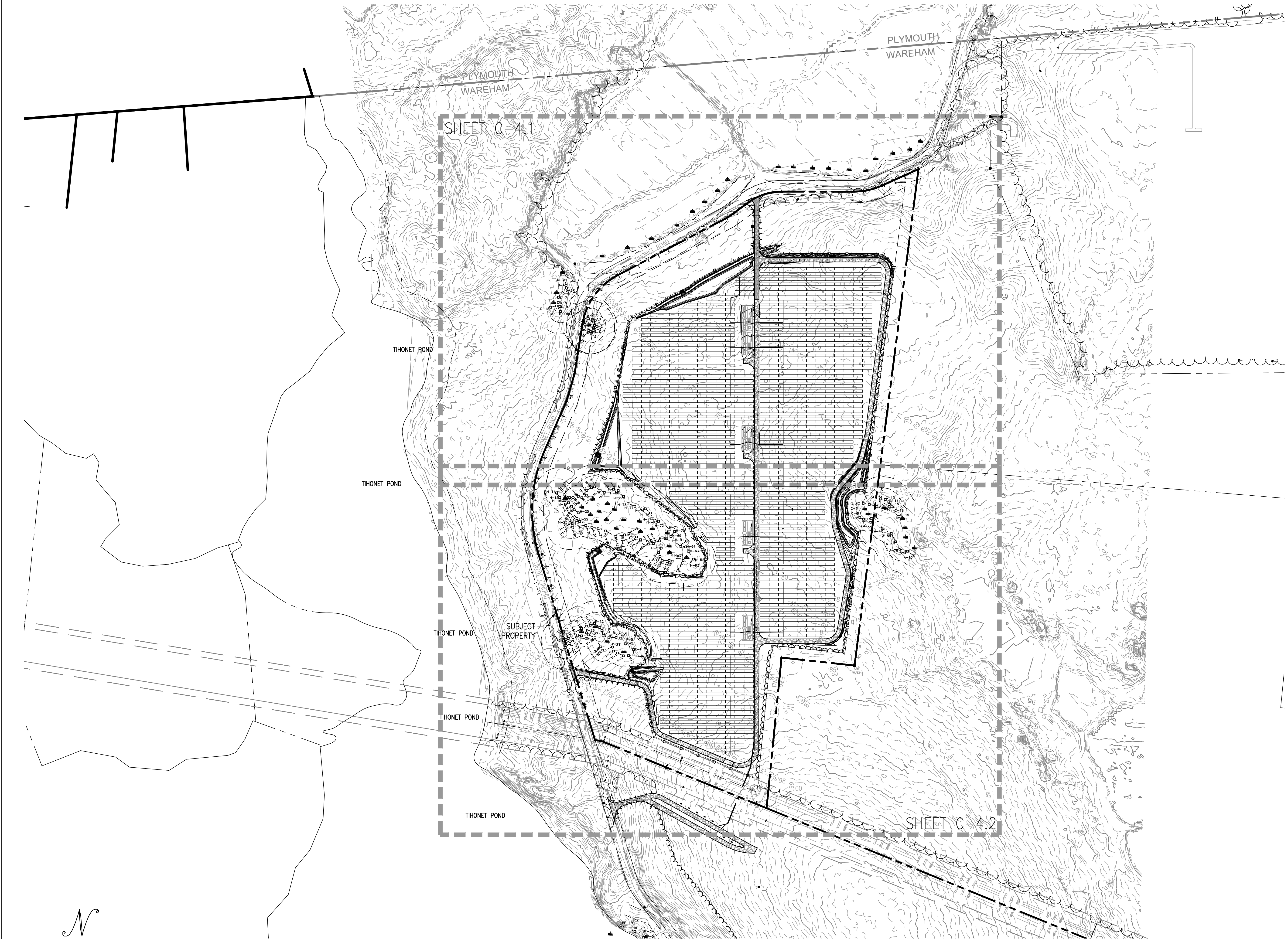
ZONING TABLE	
ZONING DISTRICT - RESIDENTIAL R-60 DISTRICT	
	NON RESIDENTIAL USE REQUIREMENTS
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MINIMUM FRONT SETBACK	50 FT
MINIMUM SIDE SETBACK	50 FT
MINIMUM REAR SETBACK	50 FT
MAXIMUM HEIGHT	35 FT
MAXIMUM BUILDING COVERAGE	-
MAXIMUM IMPERVIOUS SURFACE	-

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**LAYOUT AND MATERIALS PLAN - SOUTH**







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 PHONE: (888) 808-4273 FAX: (888) 843-6778  
 WWW.BORREGOSOLAR.COM

NOT FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS  
 JEFFREY R. MURPHY  
 CIVIL  
 No. 51800  
 REGISTERED PROFESSIONAL ENGINEER  
*Jeffrey R. Murphy*  
 12/15/2020

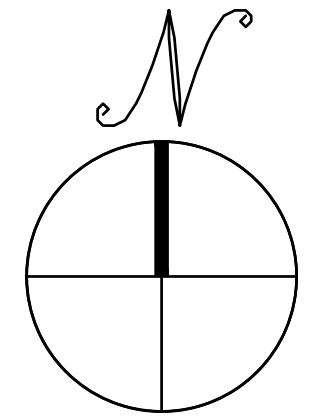
SITE USE PLANS  
 150 THONET ROAD  
 WAREHAM, MA 02571

PROJECT NUMBER:  
 905-2710

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	06/08/20	WS	DS	ISSUED FOR LOCAL PERMITTING
	08/14/20	DTL	AW	UTILITY SUBMISSION
	08/19/20	WS	DS	CREATE SIGHT LINE EXHIBIT
	11/02/20	WS	DS	RESUBMISSION TO LOCAL AHJ
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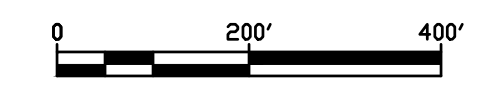
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

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



**OVERALL GRADING AND EROSION CONTROL PLAN**

SCALE: 1" = 200'





NOTE:

1. ALL FLAGS BEGINNING WITH "BF" ARE BANK FLAGS. ALL OTHERS ARE WETLAND FLAGS.
2. THE PROPOSED ARRAY IS COMPRISED OF APPROX. 38394 MODULES, AND IS SUBJECT TO CHANGE. FINAL NUMBER OF MODULES WILL BE SHOWN ON CONSTRUCTION DRAWINGS PRIOR TO ISSUANCE OF BUILDING AND ELECTRICAL PERMITS. THE PROPOSED PROJECT LIMIT OF WORK INCLUDING IS APPROXIMATELY 49.16 ACRES.
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6. NO WORK SHALL OCCUR WITHIN ANY 50' NO ACTIVITY ZONE TO WETLAND RESOURCE AREA.



# GRADING AND EROSION CONTROL PLAN - NORTH

SCALE: 1" = 80'

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WWW.BORREGOSOLAR.COM

NOT FOR CONSTRUCTION

Jeffrey R. Murphy  
12/15/2020

**SITE USE PLANS**  
150 THONET ROAD  
WAREHAM, MA 02571

PROJECT NUMBER: 905-2710

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	06/08/20	WS	DS	ISSUED FOR LOCAL PERMITTING
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	11/23/20	WS	JM	RESUBMISSION TO LOCAL AHJ
	12/15/20	WS	JM	RESUBMISSION TO LOCAL AHJ

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**C-4.1**  
GRADING AND EROSION CONTROL PLAN - NORTH



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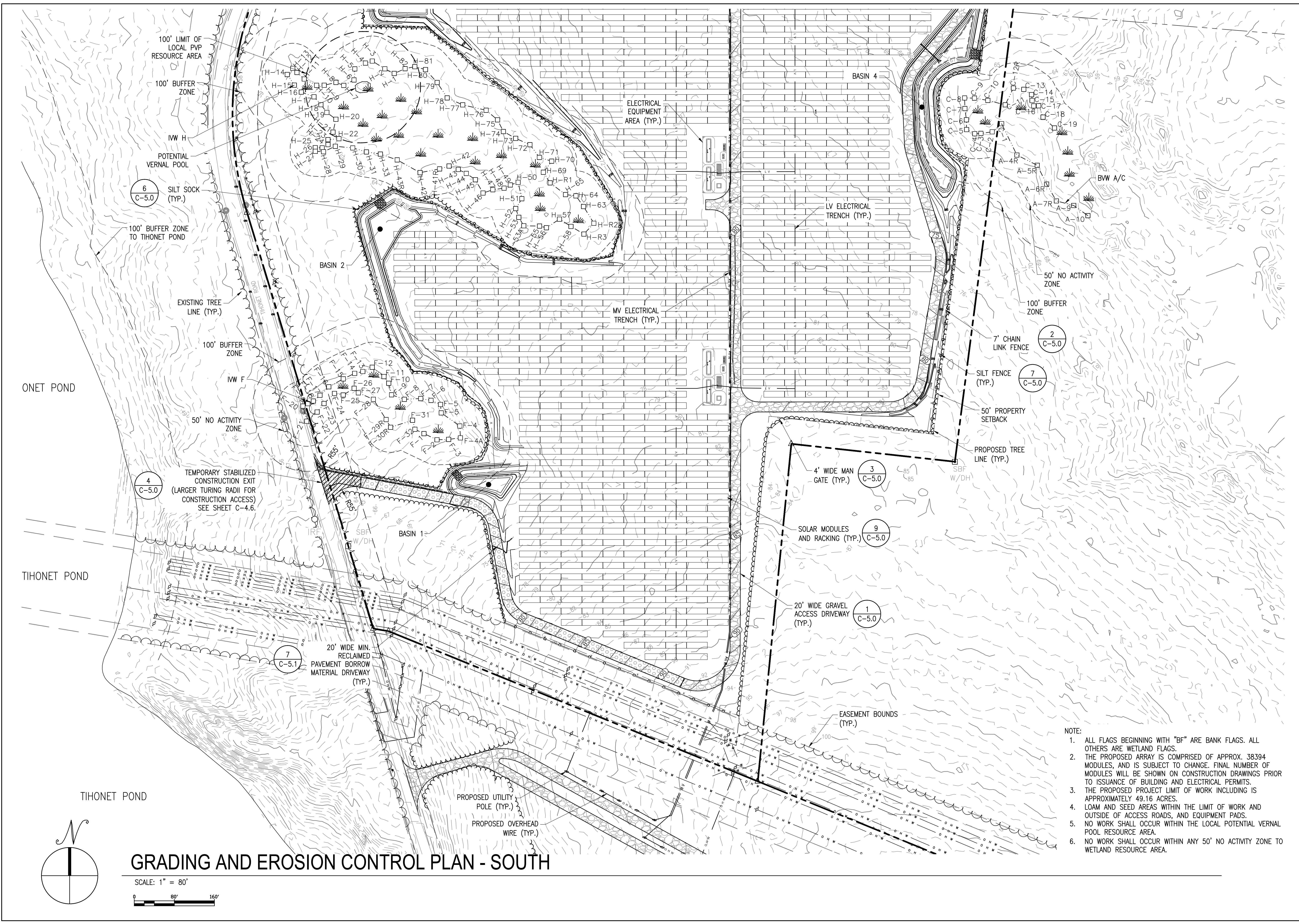
COMMONWEALTH OF MASSACHUSETTS  
 JEFFREY R. MURPHY  
 CIVIL  
 No. 91800  
 REGISTERED PROFESSIONAL ENGINEER  
 Jeffrey R. Murphy  
 12/15/2020

**SITE USE PLANS**  
 150 THONET ROAD  
 WAREHAM, MA 02571

PROJECT NUMBER:  
 905-2710

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
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**C-4.2**  
 GRADING AND EROSION CONTROL PLAN - SOUTH

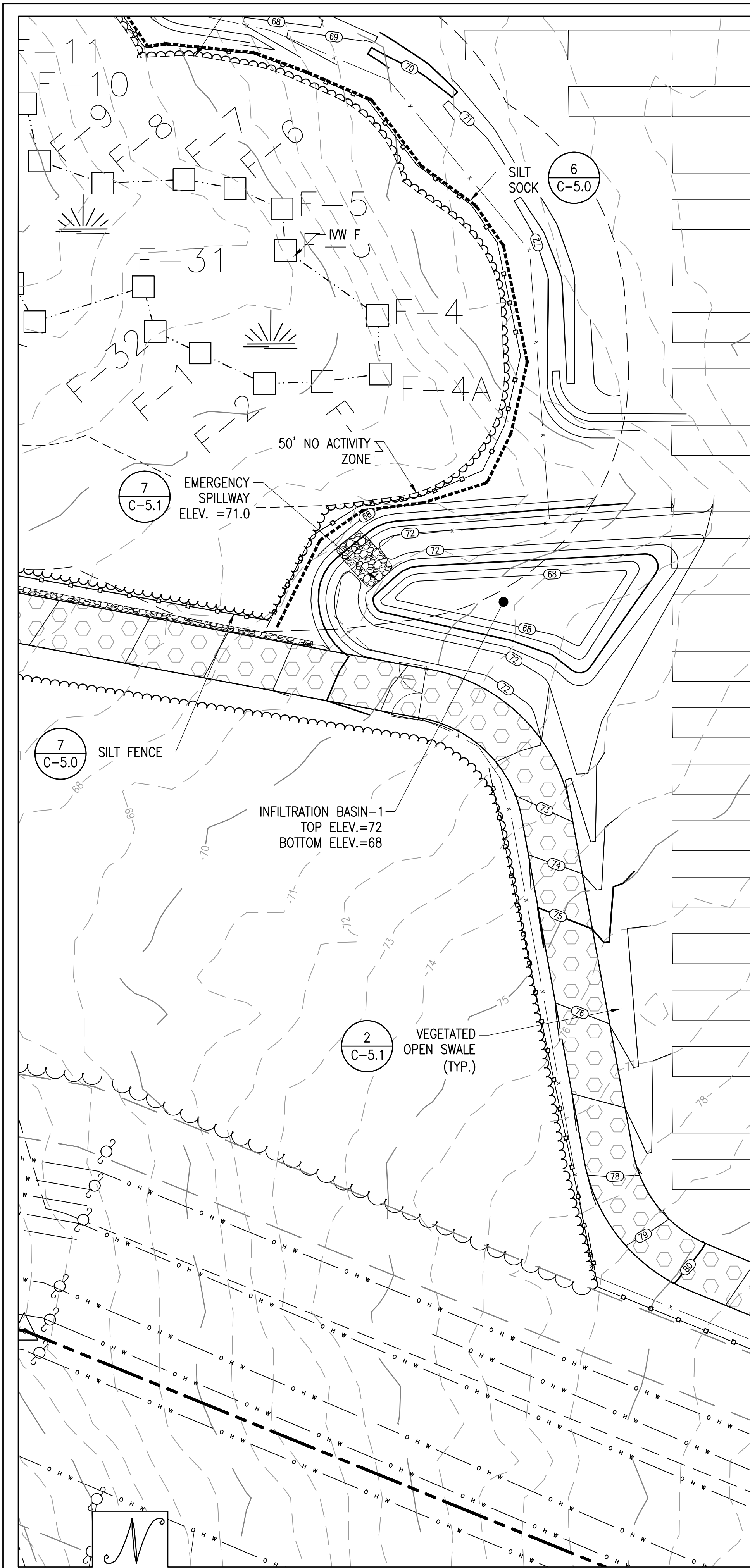


**GRADING AND EROSION CONTROL PLAN - SOUTH**

SCALE: 1" = 80'  
 0 80' 160'

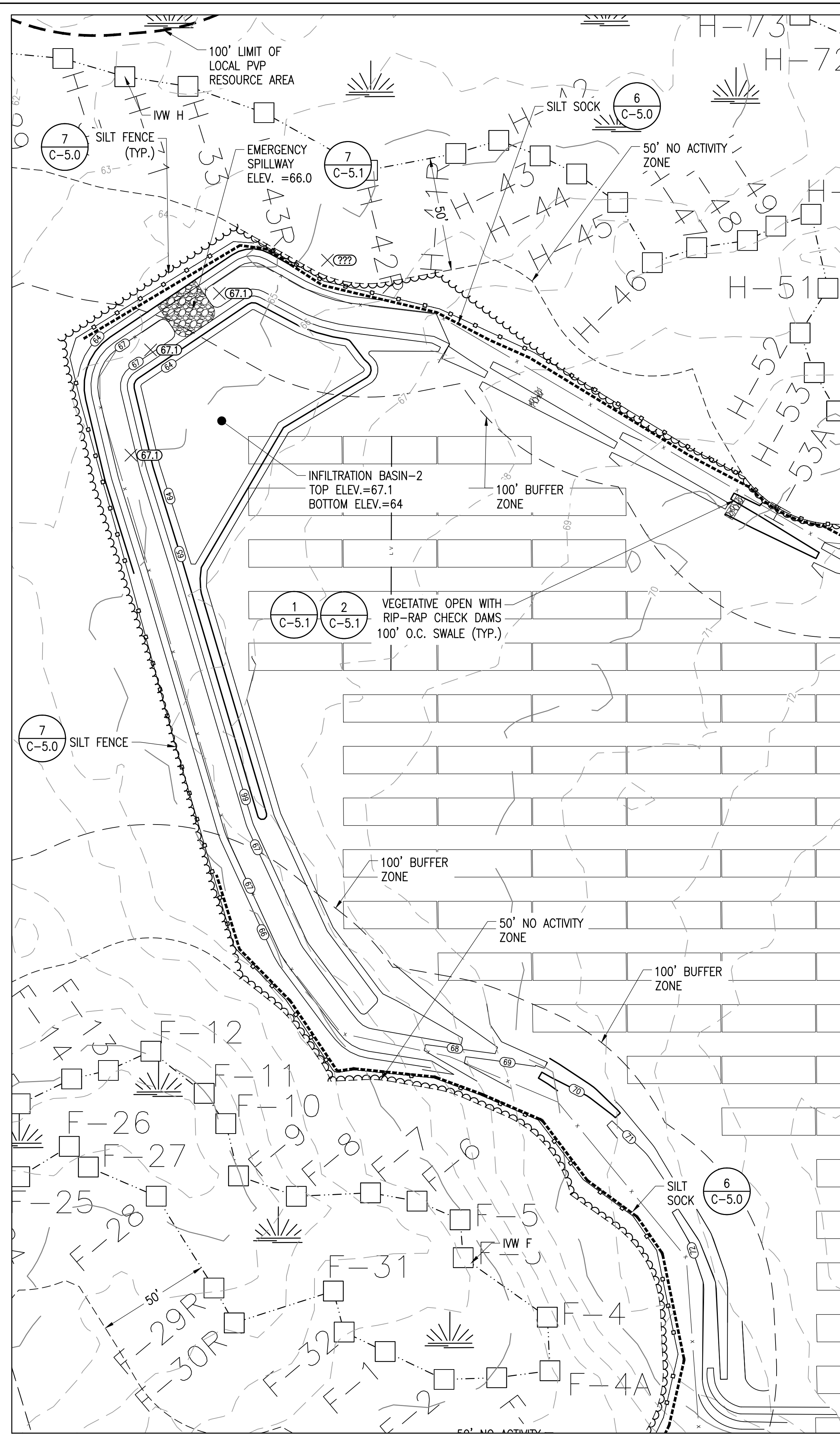
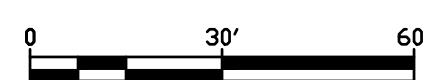
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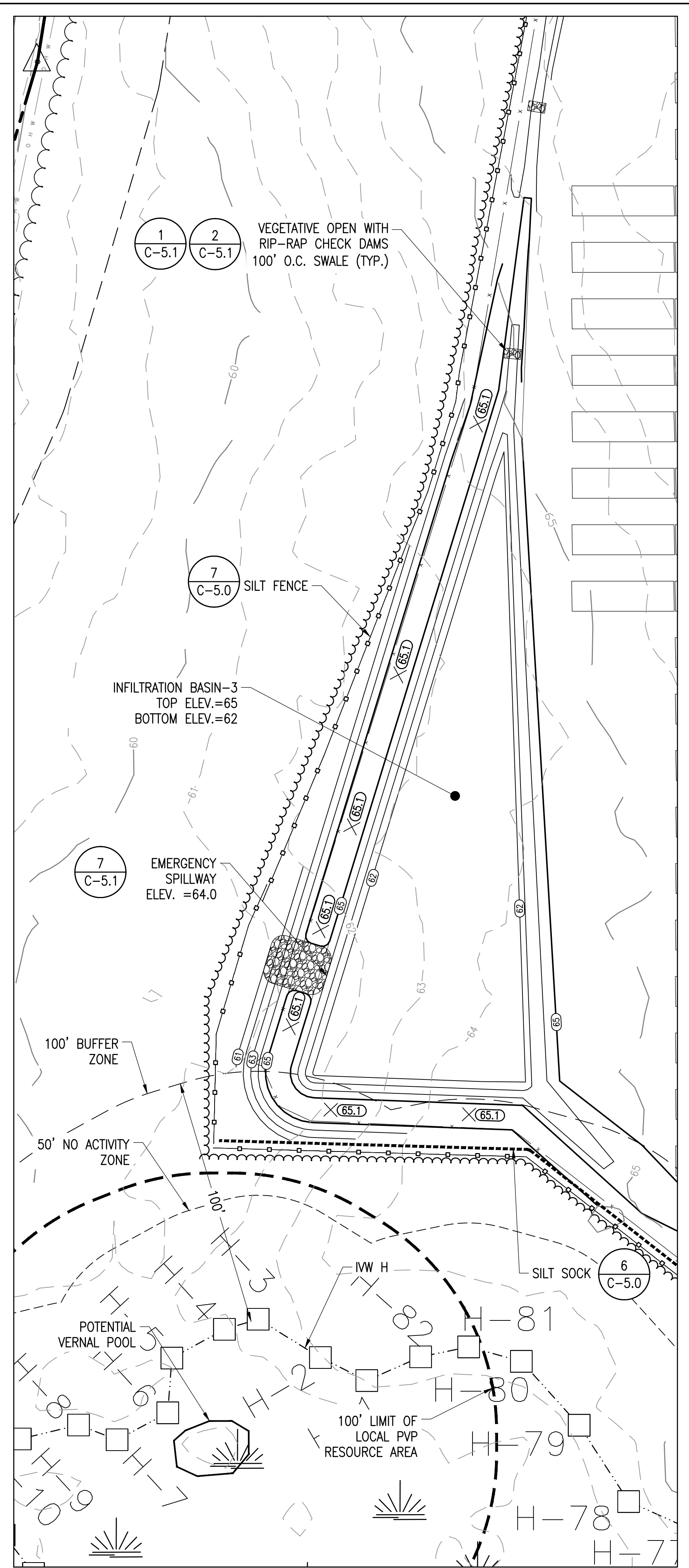


**BASIN - 1**

SCALE: 1" = 30'



**BASIN - 2**



**BASIN - 3**

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COMMONWEALTH OF MASSACHUSETTS  
JEFFREY R. MURPHY  
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12/15/2020

**SITE USE PLANS**  
150 THONET ROAD  
WAREHAM, MA 02571

PROJECT NUMBER:  
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08/19/20	WS	WS	DS	CREATE SIGHT LINE EXHIBIT
11/02/20	WS	WS	DS	RESUBMISSION TO LOCAL AHJ
11/23/20	WS	WS	JM	RESUBMISSION TO LOCAL AHJ
12/15/20	WS	WS	JM	RESUBMISSION TO LOCAL AHJ

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED AT 12" x 30"

**C-4.3**  
GRADING AND EROSION CONTROL PLAN - BASIN 1, 2



NOT FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS  
 JEFFREY R. MURPHY  
 CIVIL  
 No. 91800  
 REGISTERED PROFESSIONAL ENGINEER  
 Jeffrey R. Murphy  
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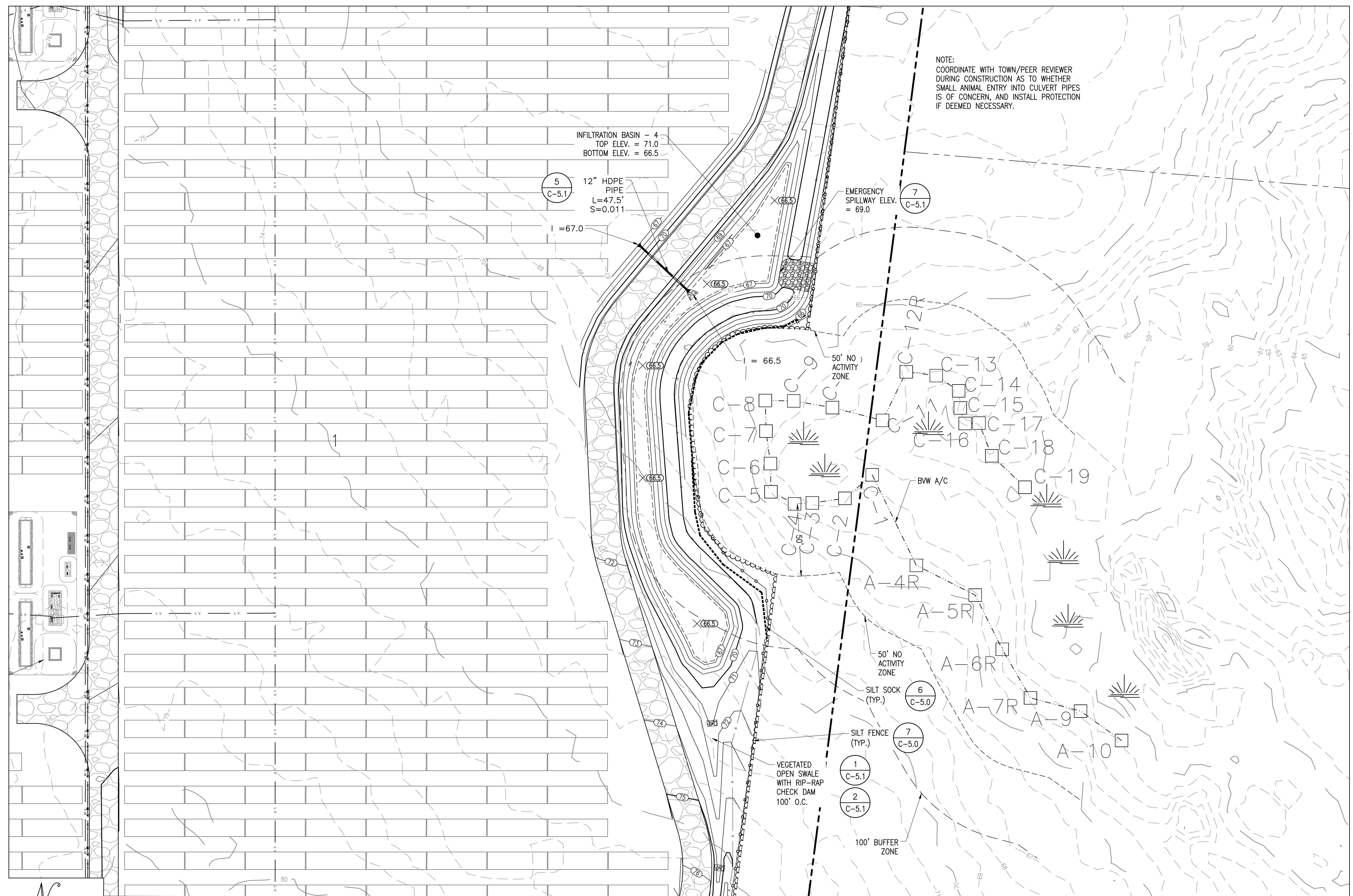
SITE USE PLANS  
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PROJECT NUMBER:  
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REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
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SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" x 36"

**C-4.4**  
 GRADING AND EROSION CONTROL PLAN - BASIN 4



NOTE:  
 COORDINATE WITH TOWN/PEER REVIEWER DURING CONSTRUCTION AS TO WHETHER SMALL ANIMAL ENTRY INTO CULVERT PIPES IS OF CONCERN, AND INSTALL PROTECTION IF DEEMED NECESSARY.

INFILTRATION BASIN - 4  
 TOP ELEV. = 71.0  
 BOTTOM ELEV. = 66.5

5  
 C-5.1  
 12" HDPE PIPE  
 L=47.5'  
 S=0.011  
 I = 67.0

7  
 C-5.1  
 EMERGENCY SPILLWAY ELEV. = 69.0

50' NO ACTIVITY ZONE

BWW A/C

50' NO ACTIVITY ZONE

SILT SOCK (TYP.)  
 6  
 C-5.0

SILT FENCE (TYP.)  
 7  
 C-5.0

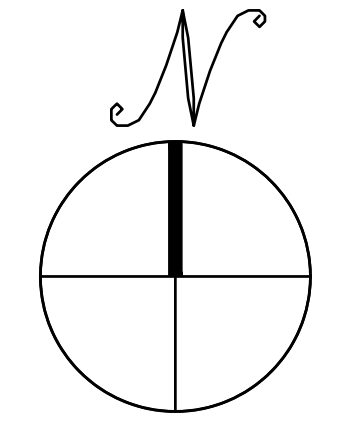
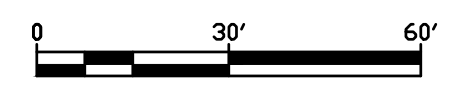
VEGETATED OPEN SWALE WITH RIP-RAP CHECK DAM 100' O.C.  
 1  
 C-5.1

2  
 C-5.1

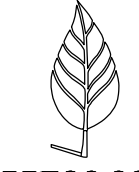
100' BUFFER ZONE

**BASIN - 4**

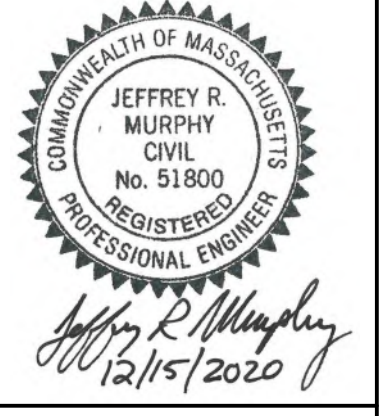
SCALE: 1" = 30'







NOT FOR CONSTRUCTION



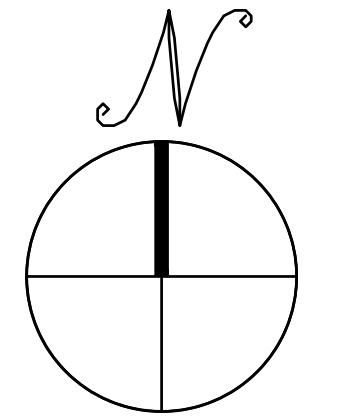
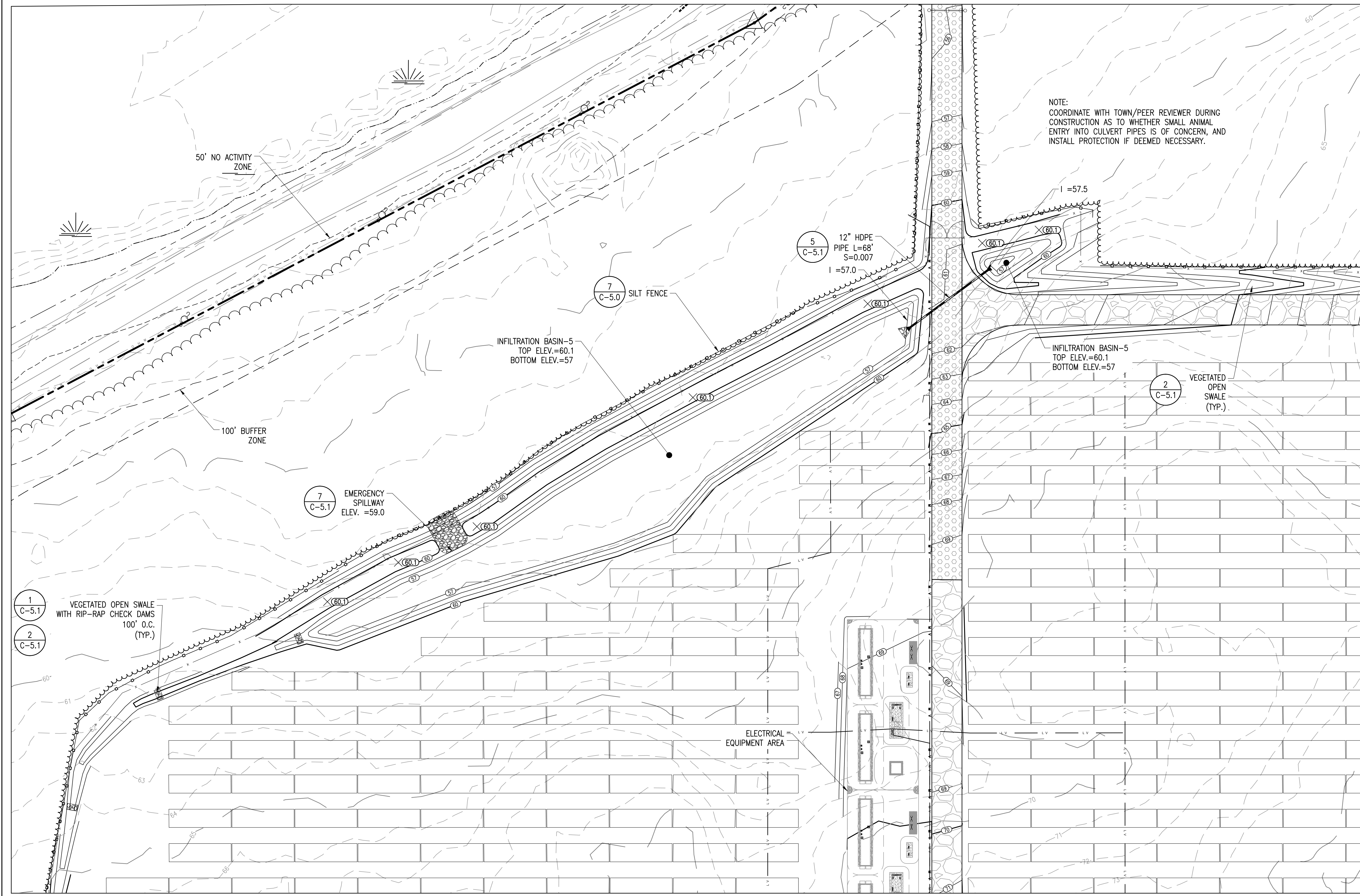
**SITE USE PLANS**  
150 THONET ROAD  
WAREHAM, MA 02571

PROJECT NUMBER:  
905-2710

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	06/08/20	WS	DS	ISSUED FOR LOCAL PERMITTING
	08/14/20	DTL	AW	UTILITY SUBMISSION
	08/19/20	WS	DS	CREATE SIGHT LINE EXHIBIT
	11/02/20	WS	DS	RESUBMISSION TO LOCAL AHJ
	11/23/20	WS	JM	RESUBMISSION TO LOCAL AHJ
	12/15/20	WS	JM	RESUBMISSION TO LOCAL AHJ

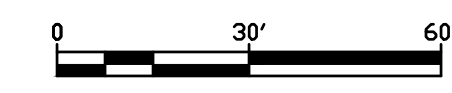
SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

**C-4.5**  
GRADING AND EROSION CONTROL PLAN - BASIN 5



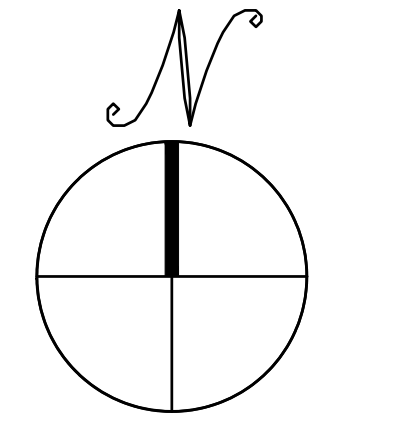
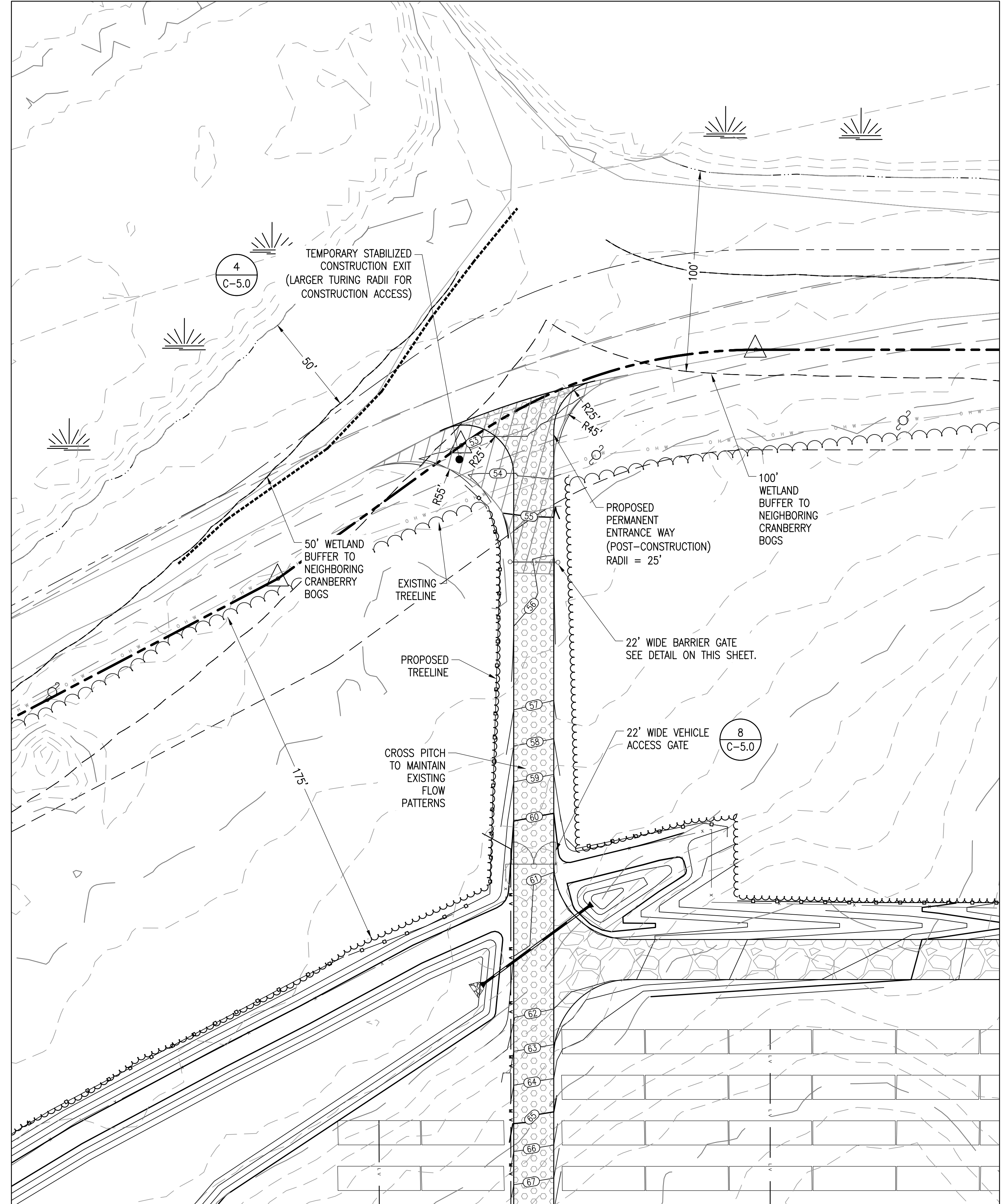
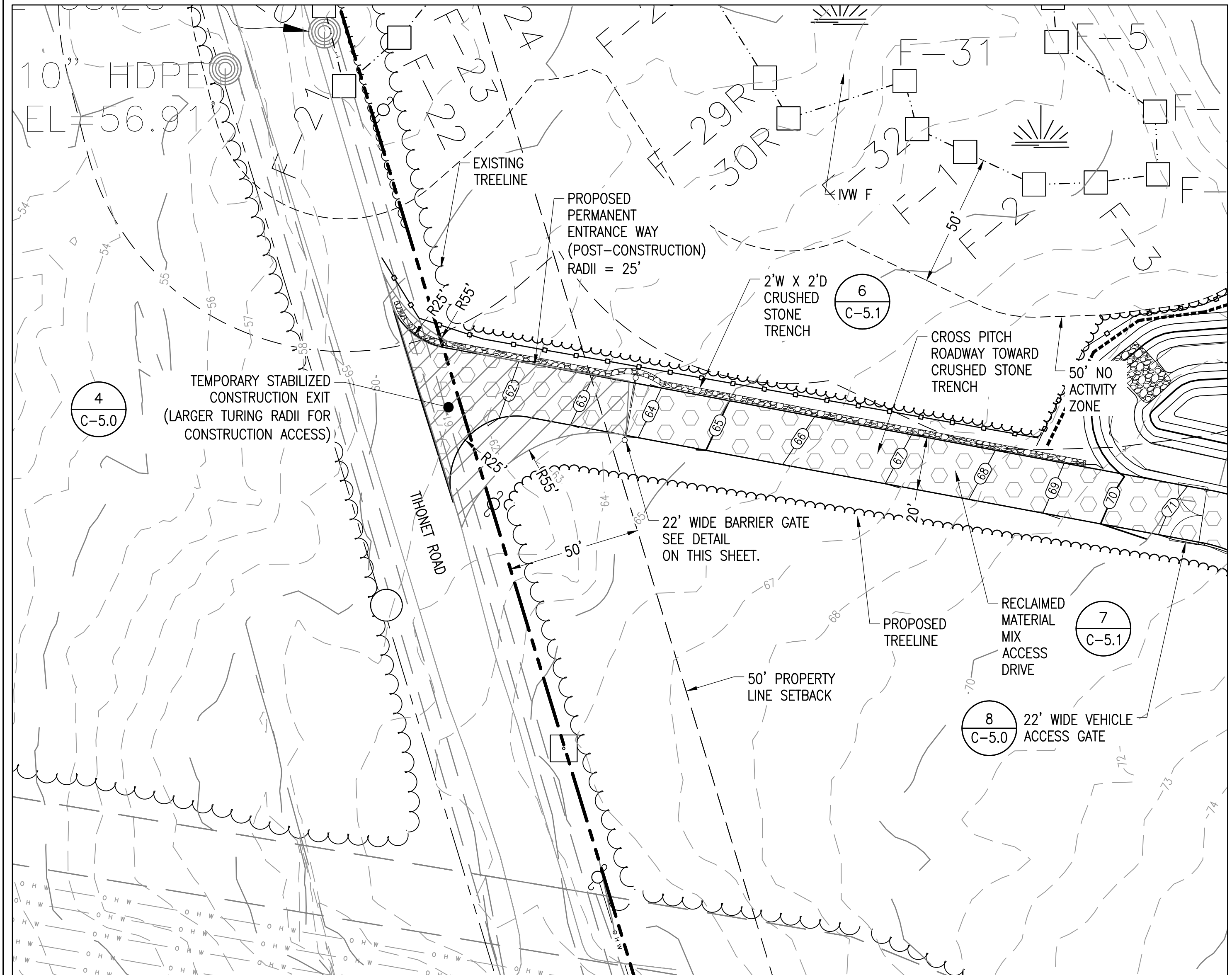
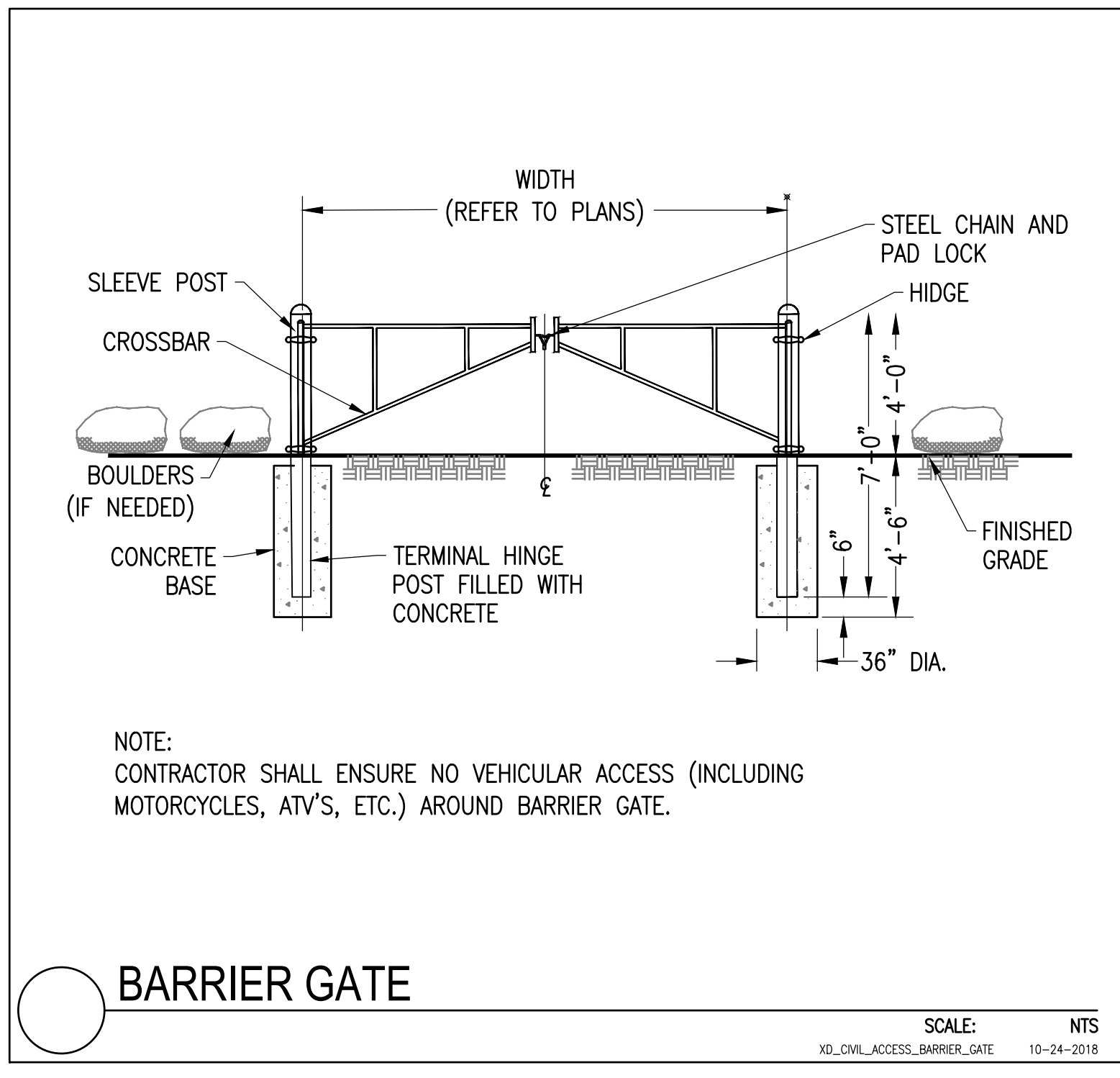
**BASIN - 5**

SCALE: 1" = 30'



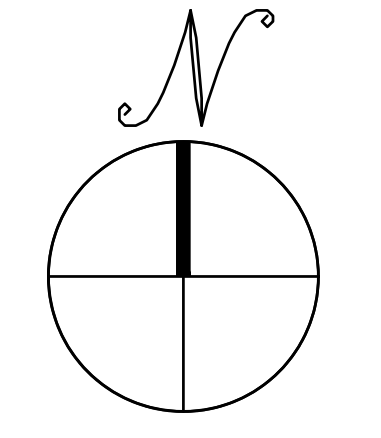


- NOTE:
1. ALL FLAGS BEGINNING WITH "BF" ARE BANK FLAGS. ALL OTHERS ARE WETLAND FLAGS.
  2. THE PROPOSED ARRAY IS COMPRISED OF APPROX. 38394 MODULES, AND IS SUBJECT TO CHANGE. FINAL NUMBER OF MODULES WILL BE SHOWN ON CONSTRUCTION DRAWINGS PRIOR TO ISSUANCE OF BUILDING AND ELECTRICAL PERMITS.
  3. THE PROPOSED PROJECT LIMIT OF WORK INCLUDING IS APPROXIMATELY 49.16 ACRES.
  4. LOAM AND SEED AREAS WITHIN THE LIMIT OF WORK AND OUTSIDE OF ACCESS ROADS, AND EQUIPMENT PADS.
  5. NO WORK SHALL OCCUR WITHIN THE LOCAL POTENTIAL VERNAL POOL RESOURCE AREA.
  6. NO WORK SHALL OCCUR WITHIN ANY 50' NO ACTIVITY ZONE TO WETLAND RESOURCE AREA.
  7. ALSO SEE NOTE 4 ON SHEET C-2.0 REGARDING LOAMING AND SEEDING OF THE SITE.



**SOUTHWEST ENTRANCE**

SCALE: 1" = 30'



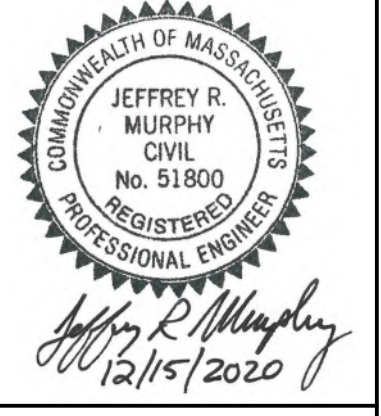
**NORTH ENTRANCE**

SCALE: 1" = 30'

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**SITE USE PLANS**  
150 THONNET ROAD  
WAREHAM, MA 02571

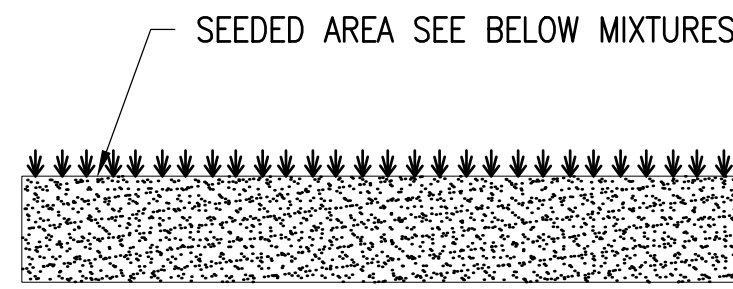
PROJECT NUMBER:  
905-2710

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
	06/08/20	WS	DS	ISSUED FOR LOCAL PERMITTING
	08/14/20	DTL	AW	UTILITY SUBMISSION
	08/19/20	WS	DS	CREATE SIGHT LINE EXHIBIT
	11/02/20	WS	DS	RESUBMISSION TO LOCAL AHJ
	11/23/20	WS	JM	RESUBMISSION TO LOCAL AHJ
	12/15/20	WS	JM	RESUBMISSION TO LOCAL AHJ

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED AT A SIZE OF 24" X 36"

**C-4.6**  
GRADING AND EROSION CONTROL PLAN - DRIVEWAYS





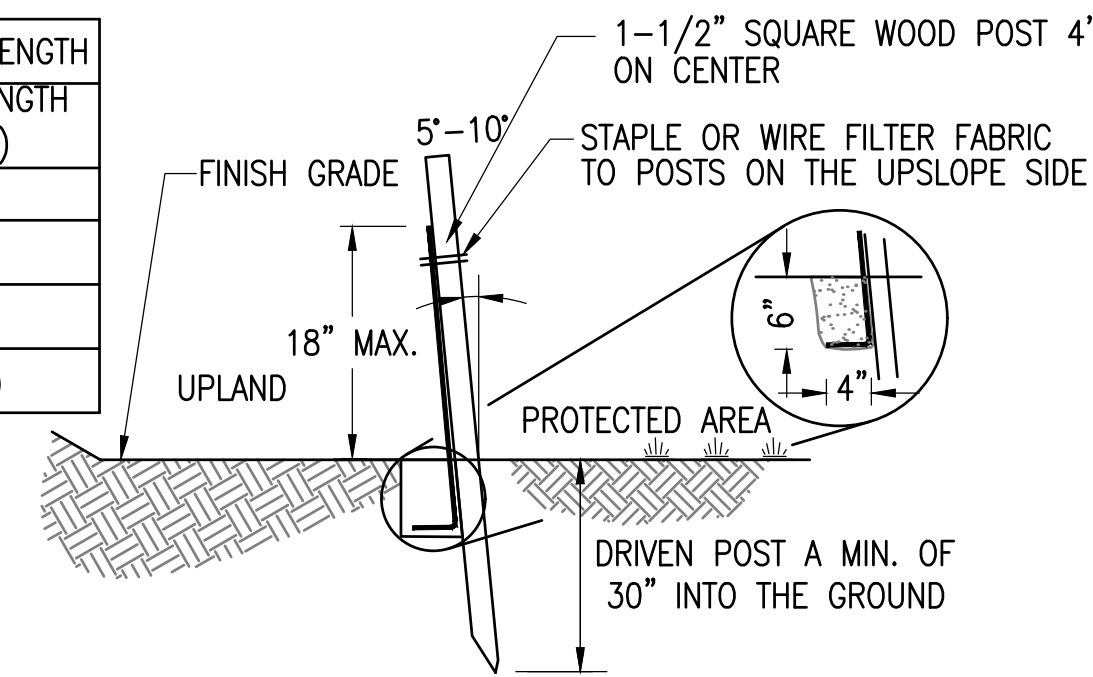
**ADM SANDY MIXTURE**

CONTAINS	PURE SEED	GERM	ORIGIN
HARD FESCUE*	24.64%	85.00%	OREGON
PENNLAWN CREEPING RED FESCUE	24.61%	85.00%	OREGON
BOREAL CREEPING RED FESCUE	24.51%	85.00%	CANADA
AZURE SHEEPS FESCUE	24.50%	85.00%	OREGON

OTHER CROP SEEDS: 0.16%  
 INERT MATTER: 1.49%  
 WEED SEEDS: 0.09%  
 NOXIOUS WEED SEEDS NONE FOUND  
 \* VARIETY NOT STATED

PROVIDED BY: VALLEY GREEN, 14 COPPERBEECH DR., KINGSTON, MA 02364

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 "I" 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, MIRAFI 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.

**10 SEED DETAIL**

SCALE: NTS

**7 SILT FENCE**

SCALE: NTS

**4 STABILIZED CONSTRUCTION EXIT**

SCALE: NTS

**NOTE:**

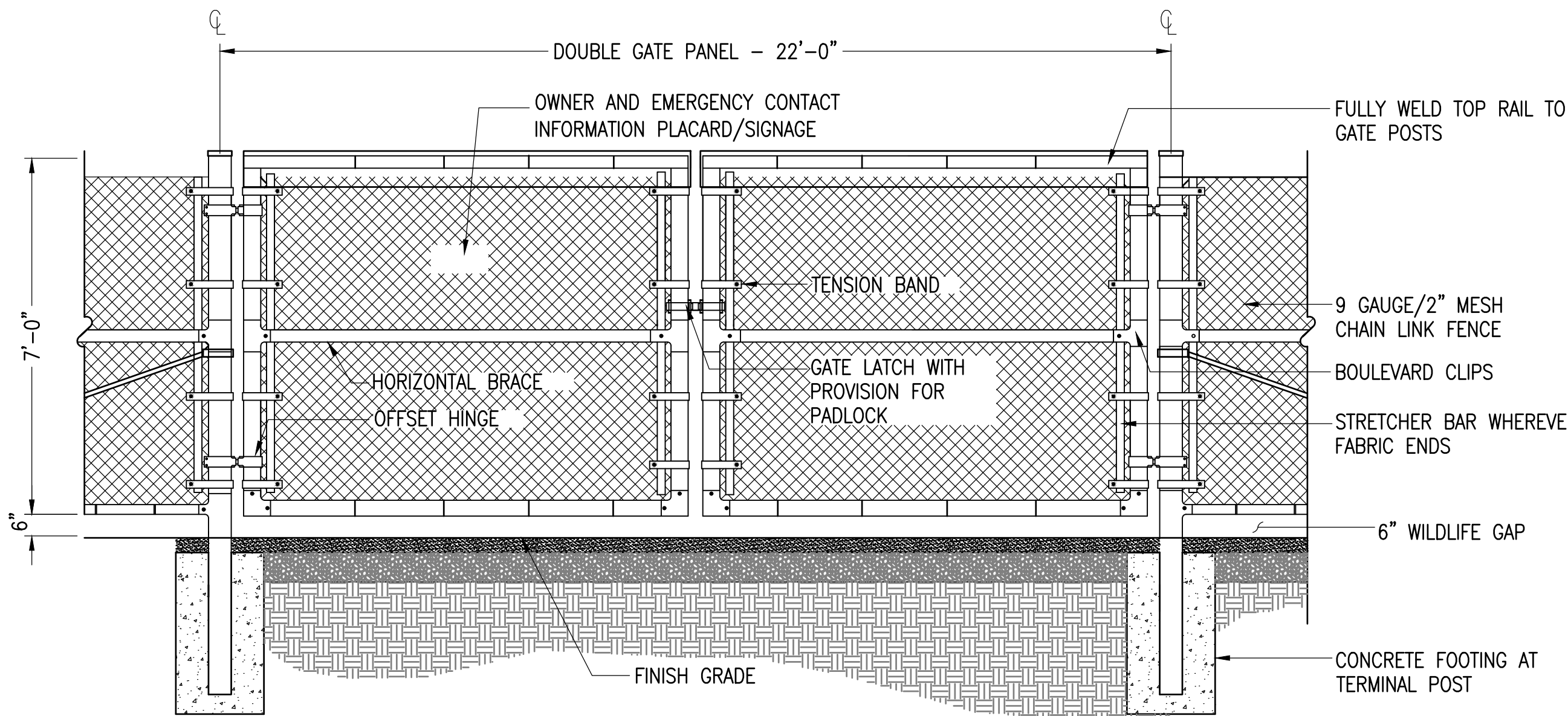
- ENTRANCE WIDTH SHALL BE A TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 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.

**1 GRAVEL ACCESS ROAD**

SCALE: NTS

**NOTES:**

- SUBCONTRACTOR SHALL EXCAVATE TO SUITABLE MATERIAL FOR SUBGRADE.
- SUBCONTRACTOR SHALL COMPACT SUBGRADE TO PROVIDE SUITABLE SURFACE TO PLACE ROAD. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION CRITERIA.
- SUBCONTRACTOR SHALL FOLLOW 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.
- SUBCONTRACTOR SHALL INSTALL CONDUITS FOR ALL ELECTRICAL CONDUIT CROSSINGS PRIOR TO INSTALLATION OF THE GEOGRID MATERIAL. THE GEOGRID SHALL NOT BE HORIZONTALLY CUT ONCE INSTALLED.
- SEE NOTE #4 ON SHEETS C-2.0, 4.1, 4.2, 4.6, AND NOTE #3 ON SHEETS C-3.1, 3.2 REGARDING LOAMING AND SEEDING OF SITE.



- NOTE:**
- FENCE GATE SHALL BE EQUIPPED WITH FIRE DEPARTMENT KNOX BOX FOR EMERGENCY ACCESS.

**8 VEHICLE GATE - WILDLIFE GAP**

SCALE: NTS

**5 CONCRETE WASHOUT BASINS**

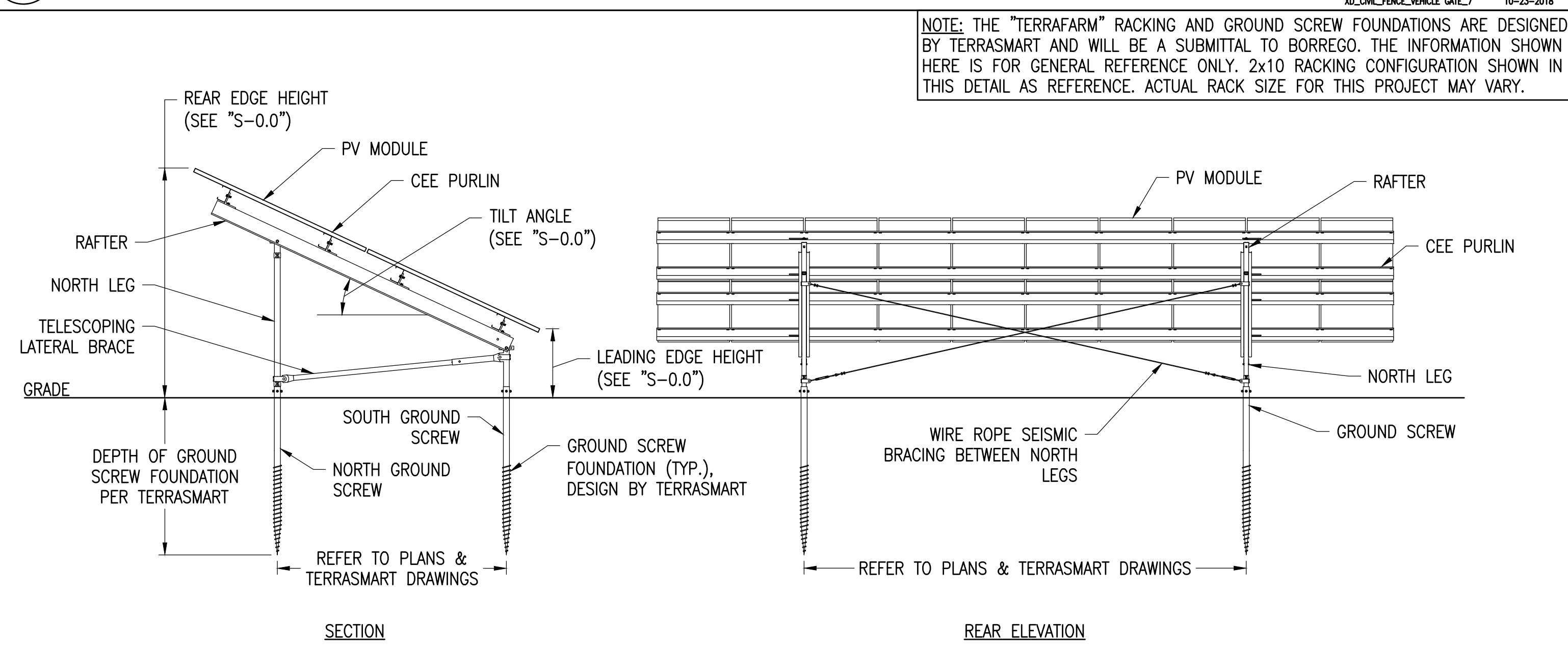
SCALE: NTS

**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.

**2 CHAIN LINK FENCE - WILDLIFE GAP**

SCALE: NTS

- 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.



**NOTE:** THE "TERRAFARM" RACKING AND GROUND SCREW FOUNDATIONS ARE DESIGNED BY TERRASART AND WILL BE A SUBMITTAL TO BORREGO. THE INFORMATION SHOWN HERE IS FOR GENERAL REFERENCE ONLY. 2x10 RACKING CONFIGURATION SHOWN IN THIS DETAIL AS REFERENCE. ACTUAL RACK SIZE FOR THIS PROJECT MAY VARY.

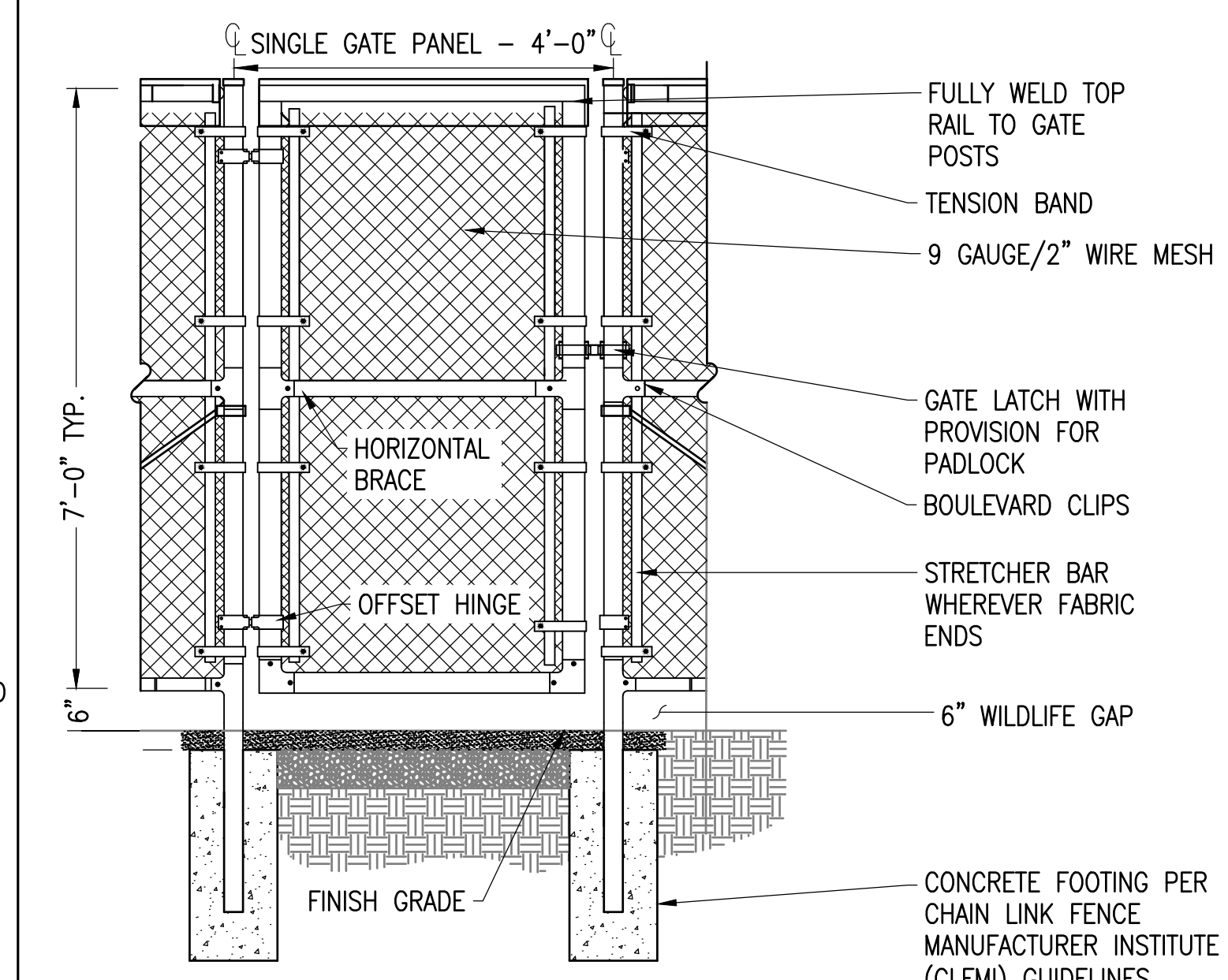
**9 TYPICAL RACK SECTION & REAR ELEVATION**

SCALE: NTS

**6 MULCH TUBE**

SCALE: NTS

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



**NOTE:** FABRIC SHALL BE GALVANIZED

**3 4' MAN GATE - WILDLIFE GAP**

SCALE: NTS

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**BORREGO SOLAR**  
 55 TECHNOLOGY DRIVE, SUITE 102  
 LOWELL, MA 01851  
 PHONE: (888) 808-4273  
 FAX: (888) 843-6778  
 WWW.BORREGOSOLAR.COM

NOT FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS  
 JEFFREY R. MURPHY  
 CIVIL  
 No. 51800  
 REGISTERED PROFESSIONAL ENGINEER  
 12/15/2020

SITE USE PLANS  
 150 THONET ROAD  
 WAREHAM, MA 02571

PROJECT NUMBER:  
 905-2710

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
06/08/20	06/14/20	DTL	AW	ISSUED FOR LOCAL PERMITTING
08/19/20	08/19/20	WS	DS	UTILITY SUBMISSION
11/02/20	11/02/20	WS	DS	CREATE SIGHT LINE EXHIBIT
11/23/20	11/23/20	WS	JM	RESUBMISSION TO LOCAL AHJ
12/15/20	12/15/20	WS	JM	RESUBMISSION TO LOCAL AHJ

SCALE: 1/8" = 1'-0"  
 ARE VALID ONLY WHEN PLOTTED  
 ARCH D 24" X 36"

**C-5.0**  
 CIVIL DETAILS



NOT FOR CONSTRUCTION

JEFFREY R. MURPHY  
 CIVIL  
 No. 51800  
 REGISTERED PROFESSIONAL ENGINEER  
 12/15/2020

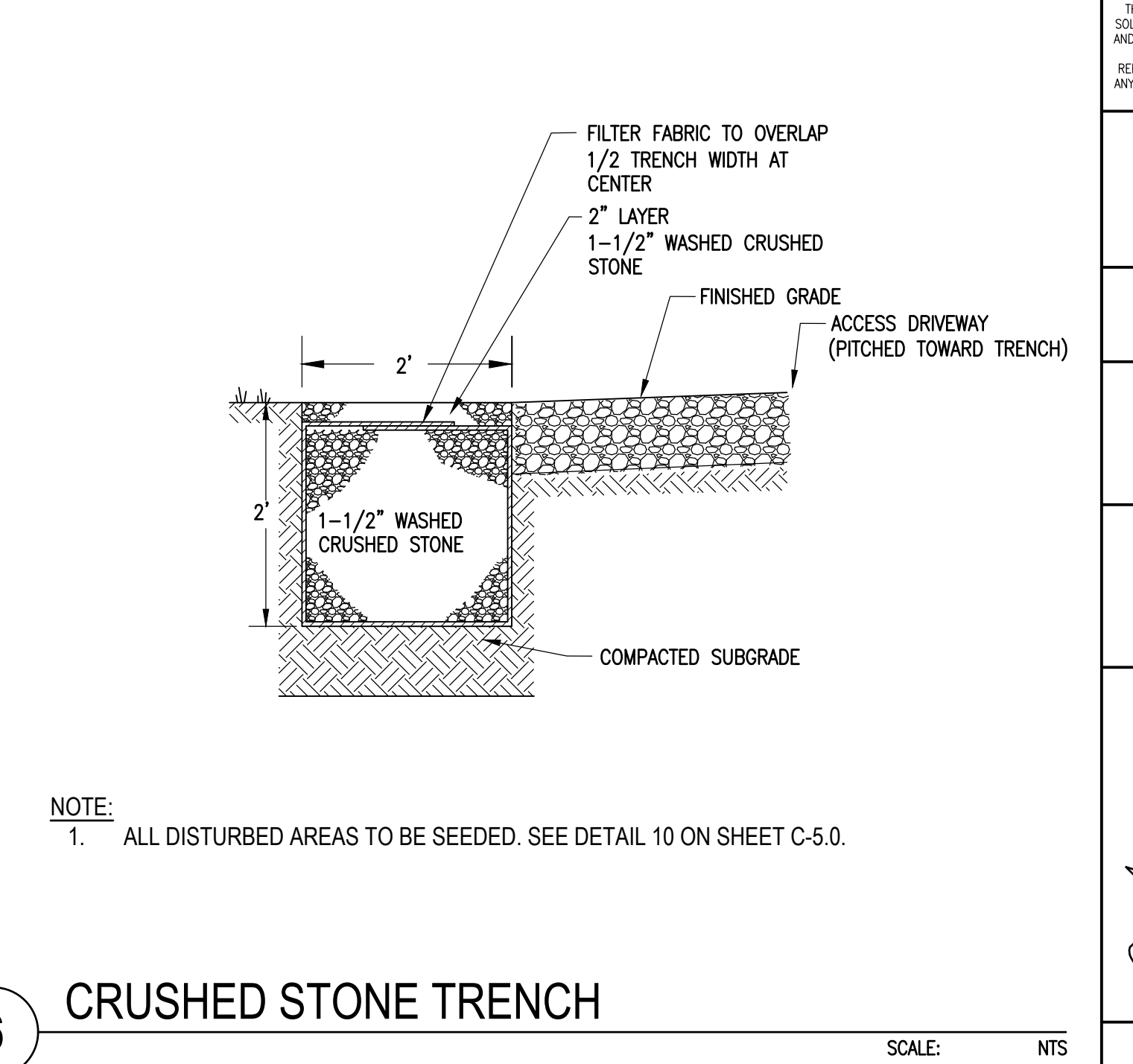
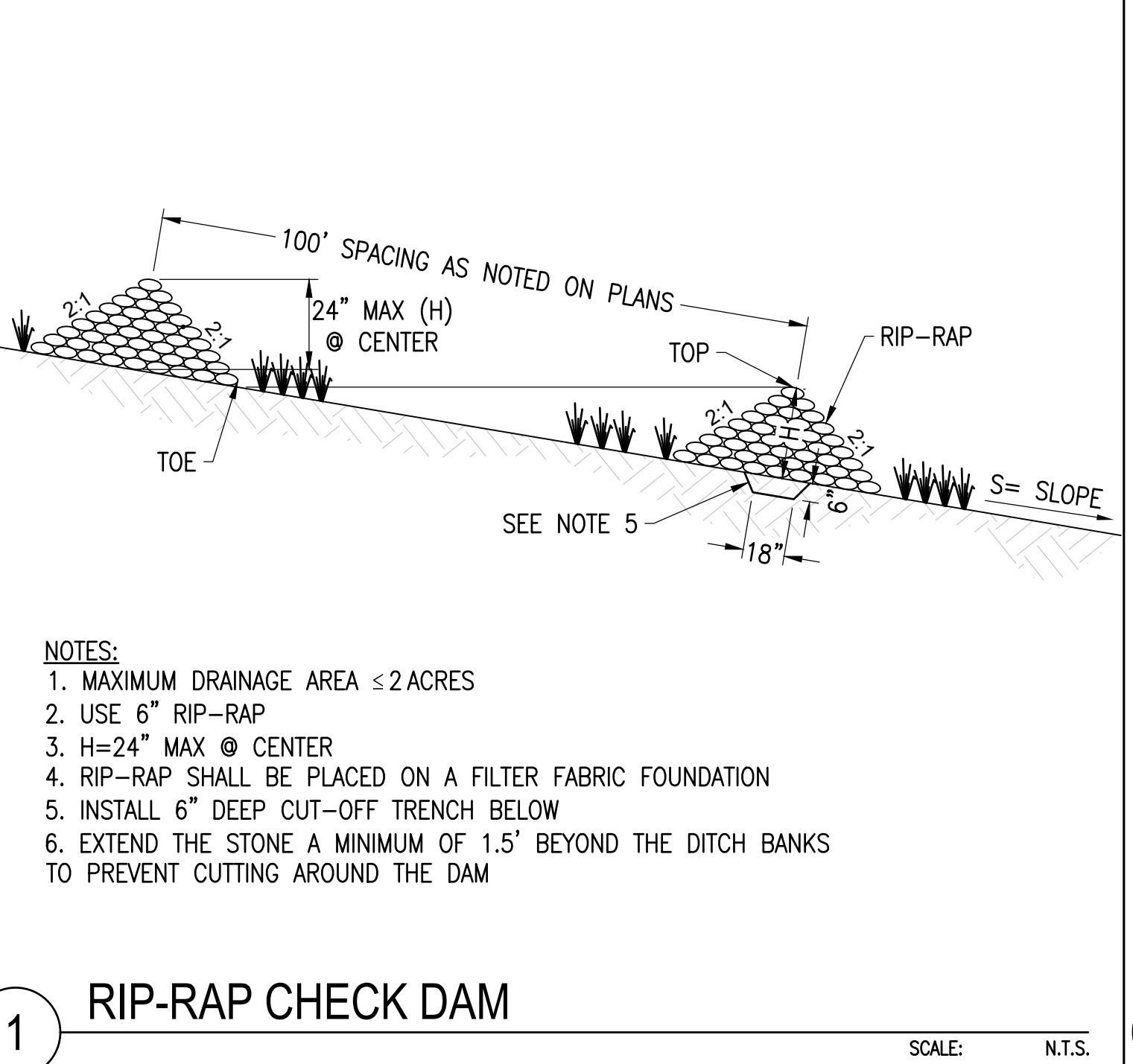
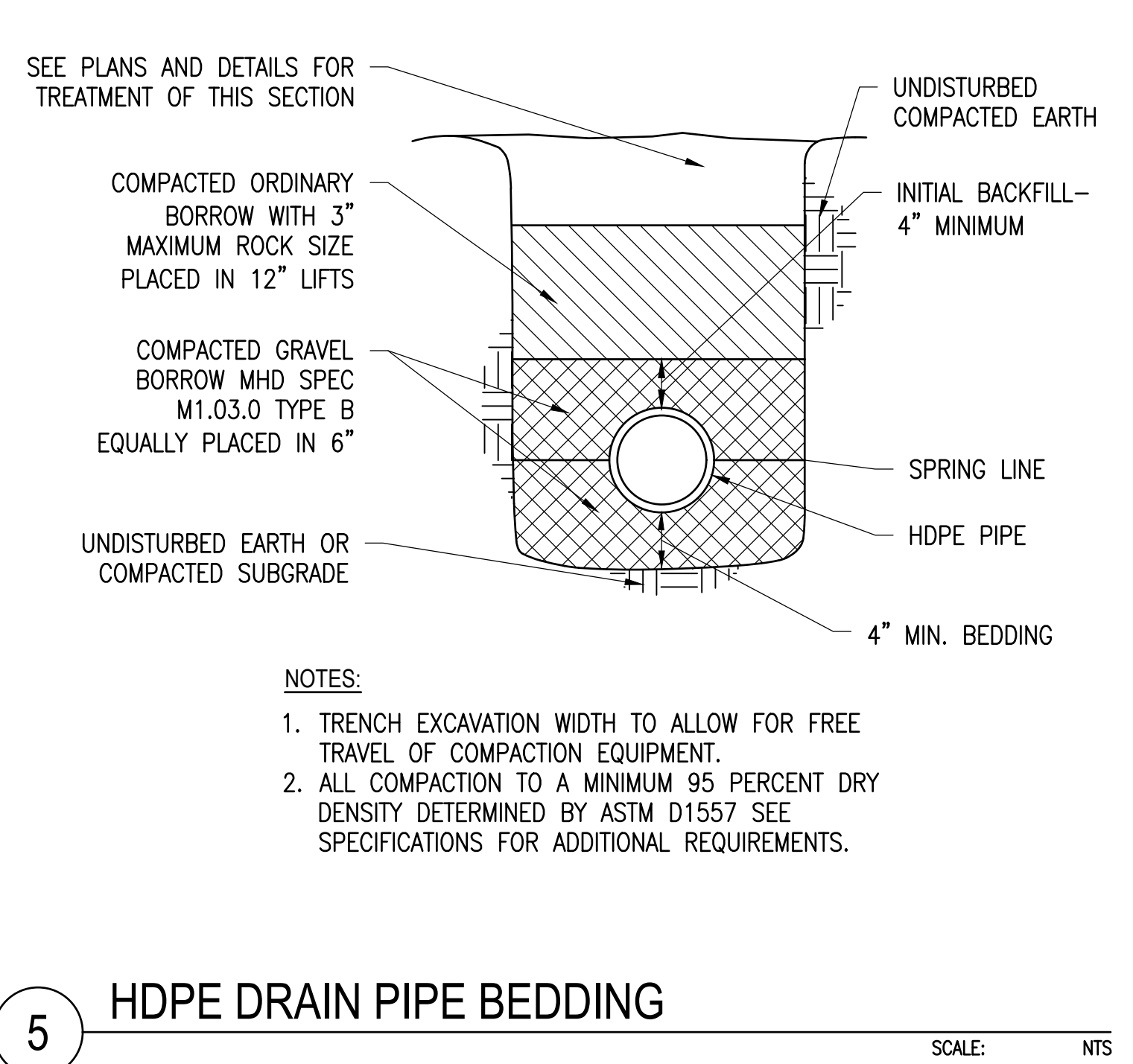
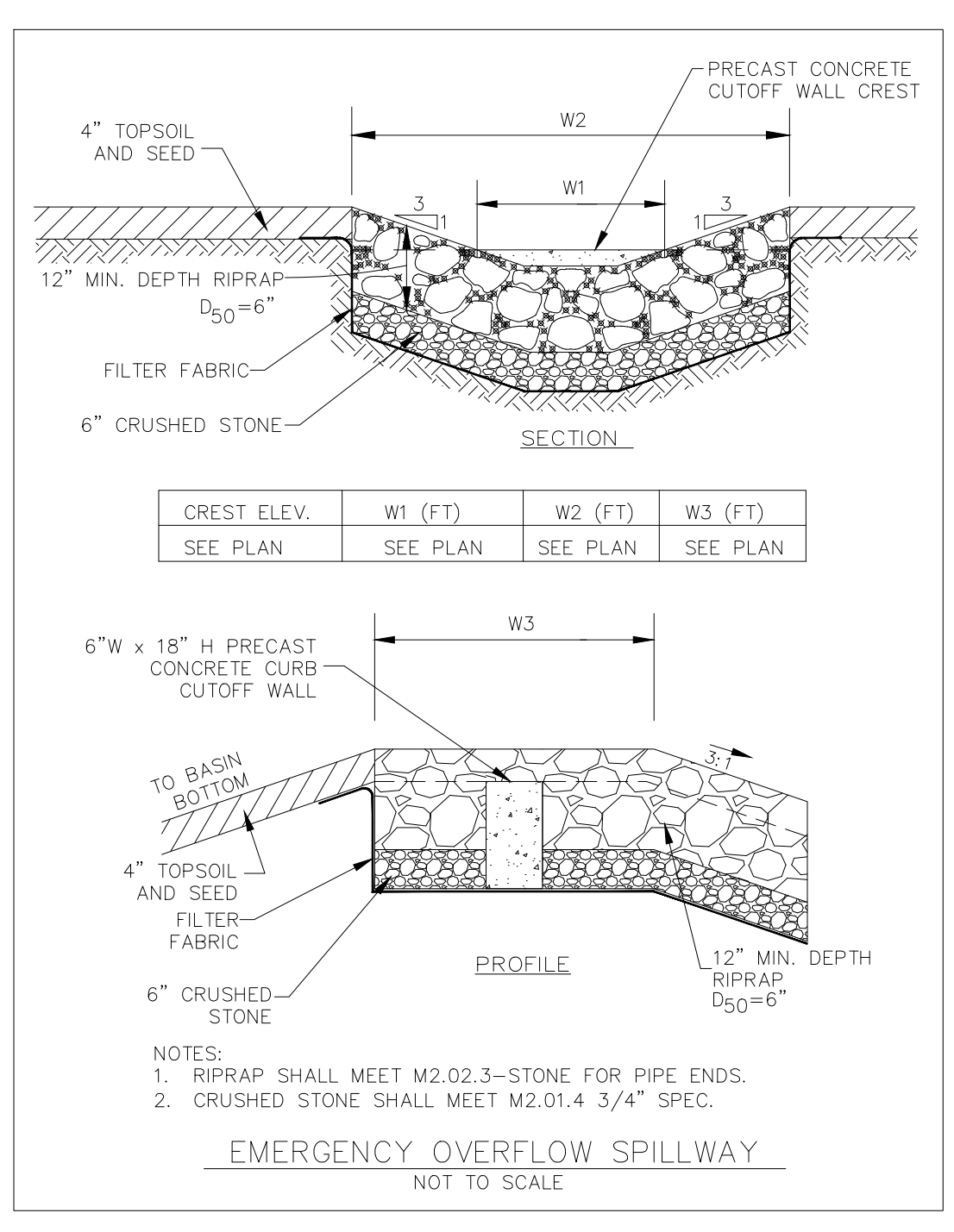
SITE USE PLANS  
 150 THONET ROAD  
 WAREHAM, MA 02571

PROJECT NUMBER:  
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REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
06/08/20	WS	DS	DS	ISSUED FOR LOCAL PERMITTING
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SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" x 36"

**C-5.1**  
 CIVIL DETAILS

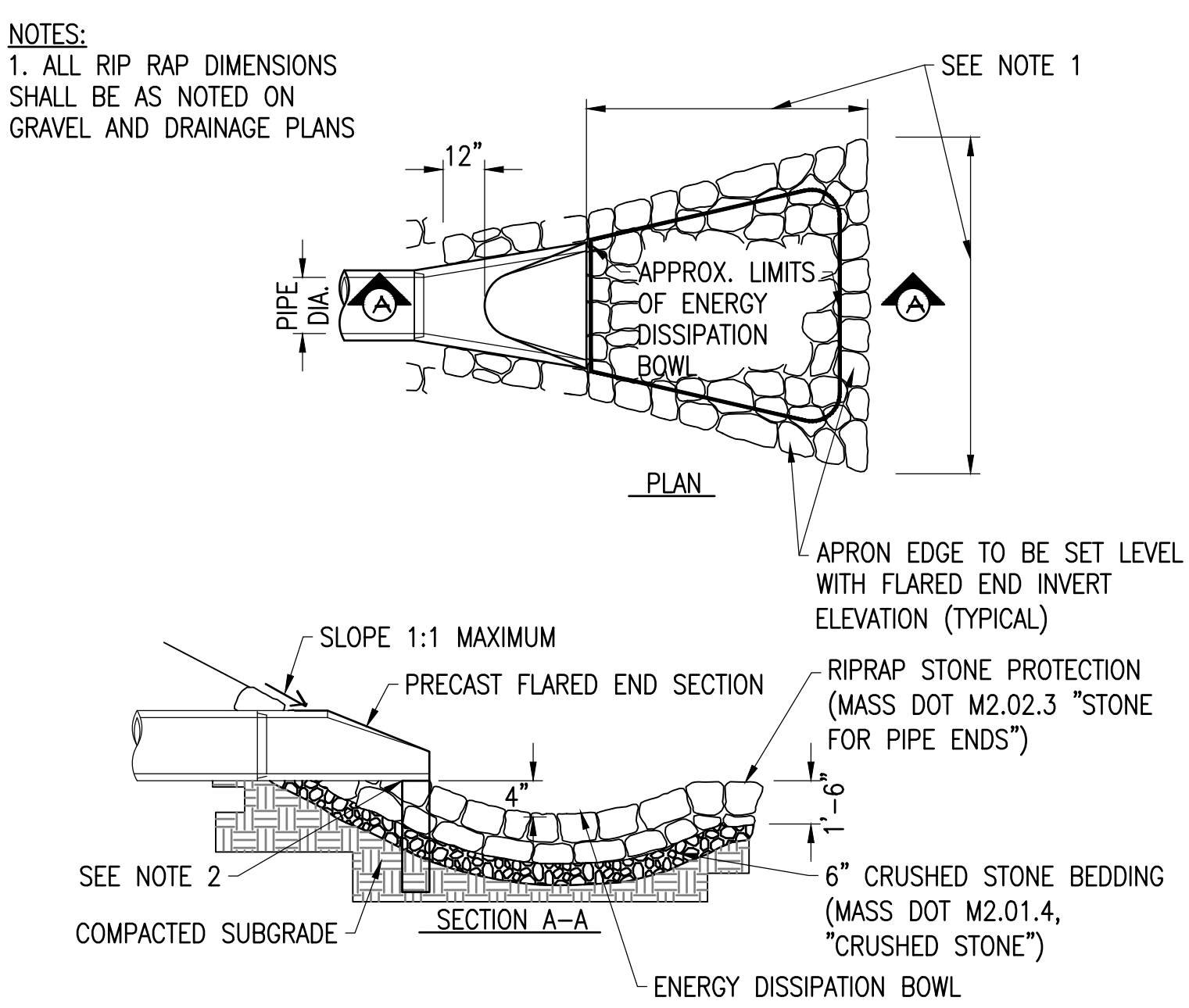
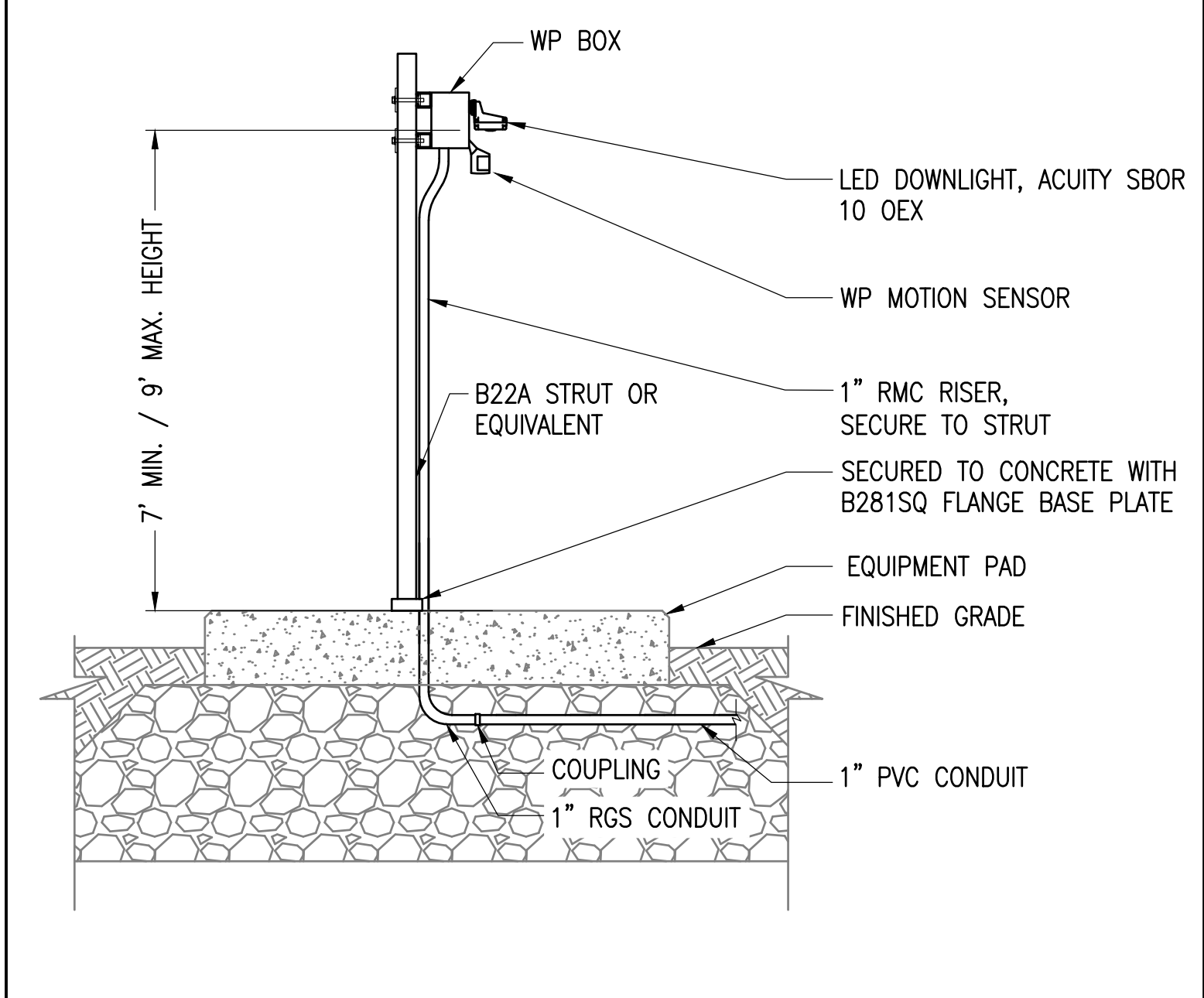


7

5 HDPE DRAIN PIPE BEDDING  
 SCALE: NTS  
 XD\_CIVIL\_DRAIN\_PIPE\_BEDDING\_08-28-2016

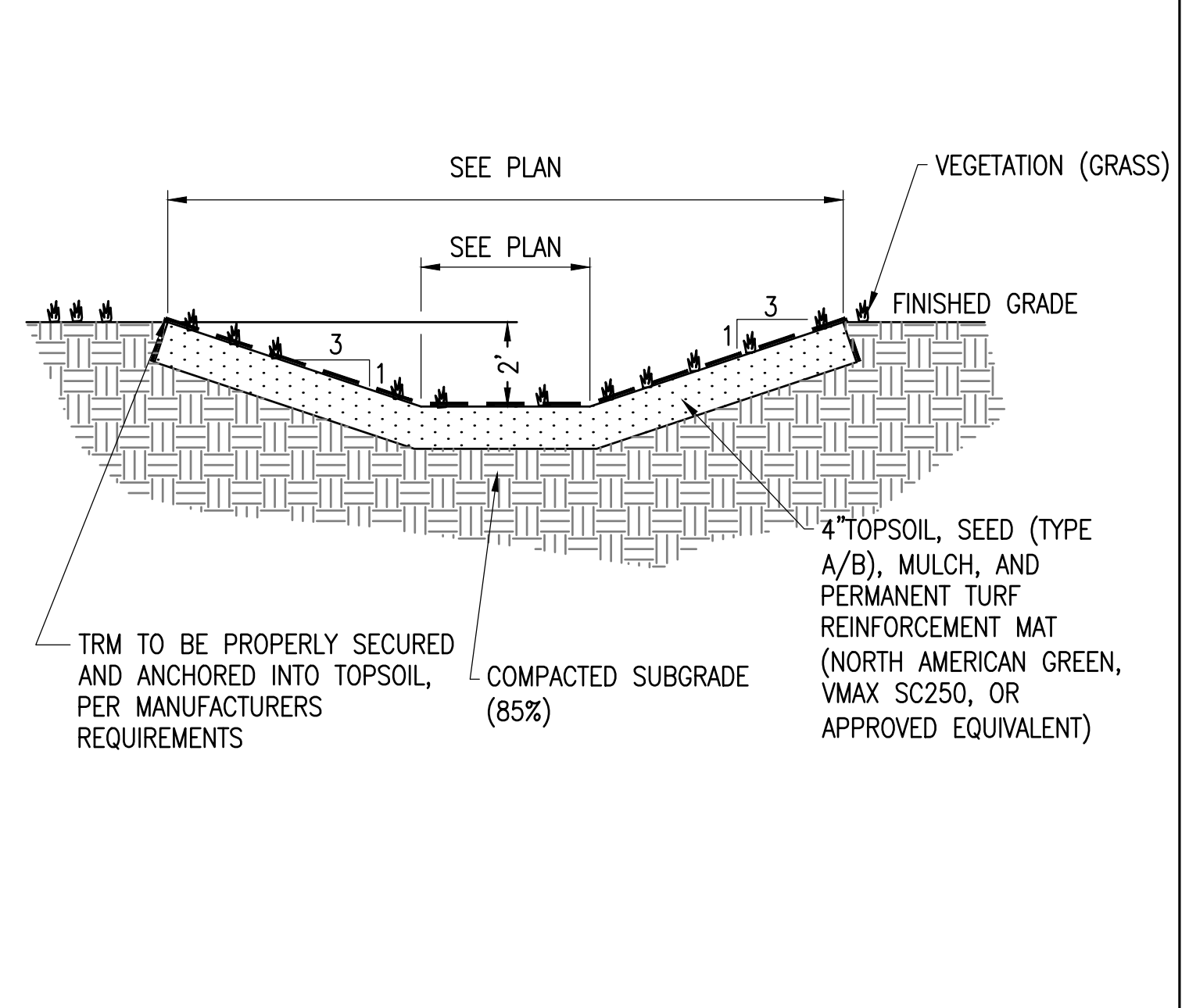
1 RIP-RAP CHECK DAM  
 SCALE: N.T.S.  
 XD\_CIVIL\_CHECK\_DAM\_08-15-2016

6 CRUSHED STONE TRENCH  
 SCALE: NTS

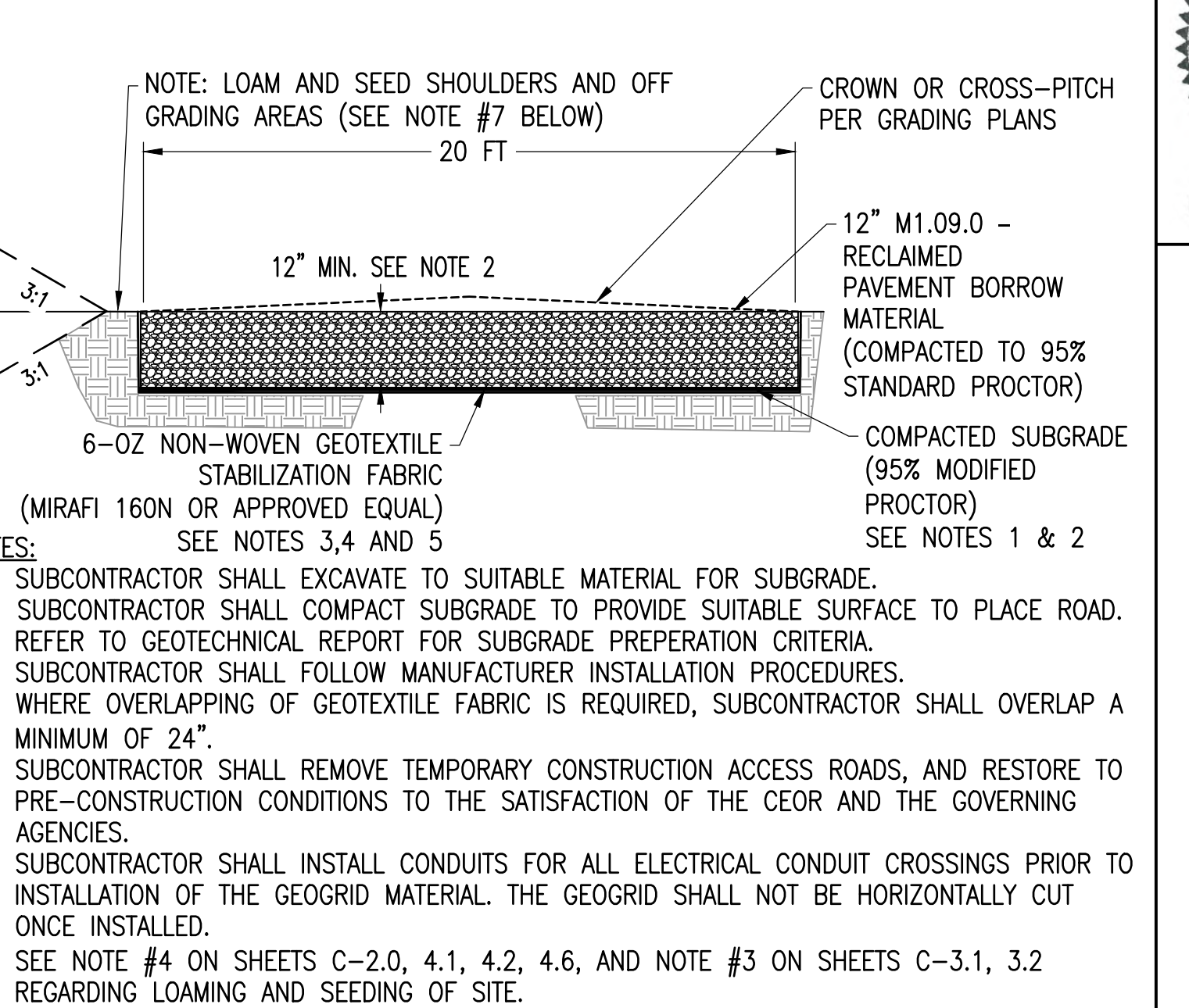


8 LIGHTING MOUNTING - DOWNLIGHT  
 SCALE: NTS  
 XD\_ELEC\_LIGHT\_MOUNTING-DOWNLIGHT\_2019-06-22\_JPL

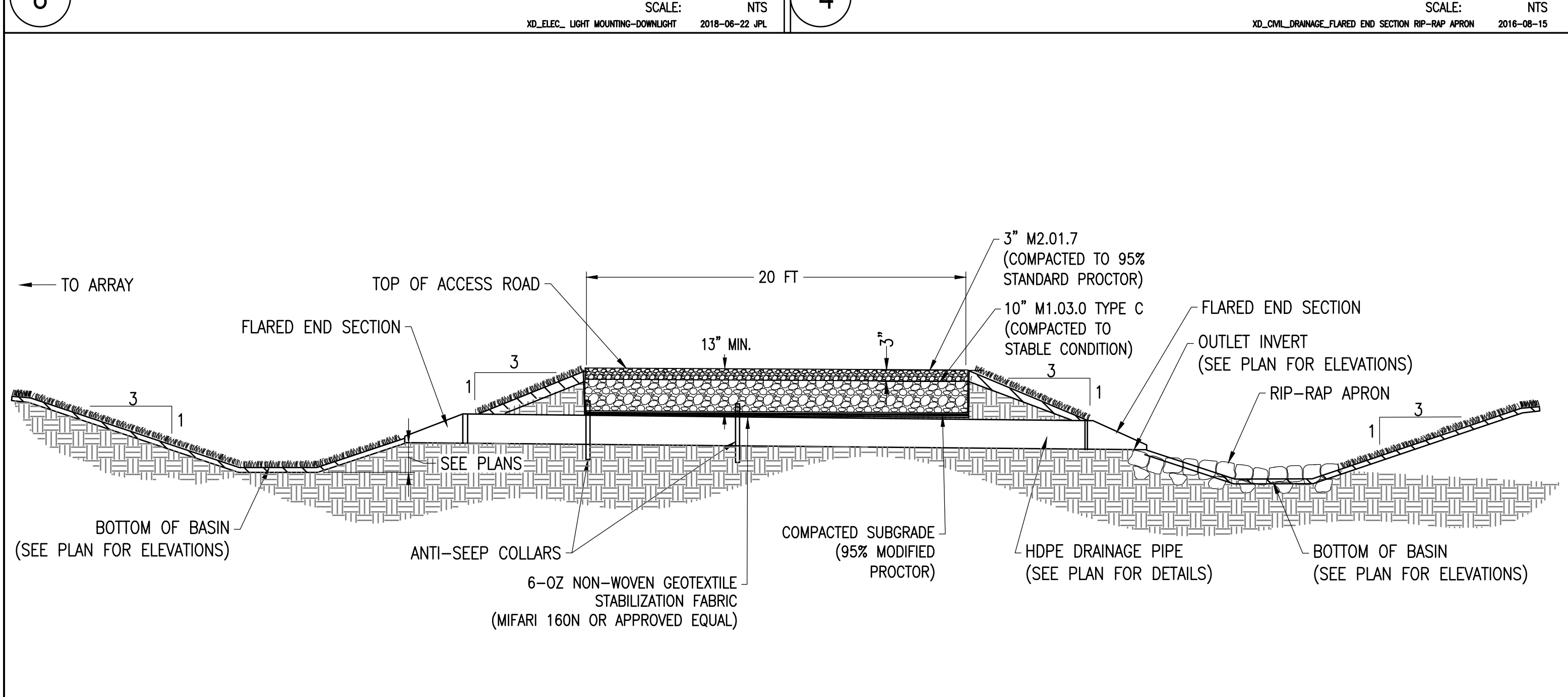
4 FLARED END SECTION/RIP-RAP APRON  
 SCALE: NTS  
 XD\_CIVIL\_DRAINAGE\_FLARED\_END\_SECTION\_RIP-RAP\_APRON\_2016-06-15



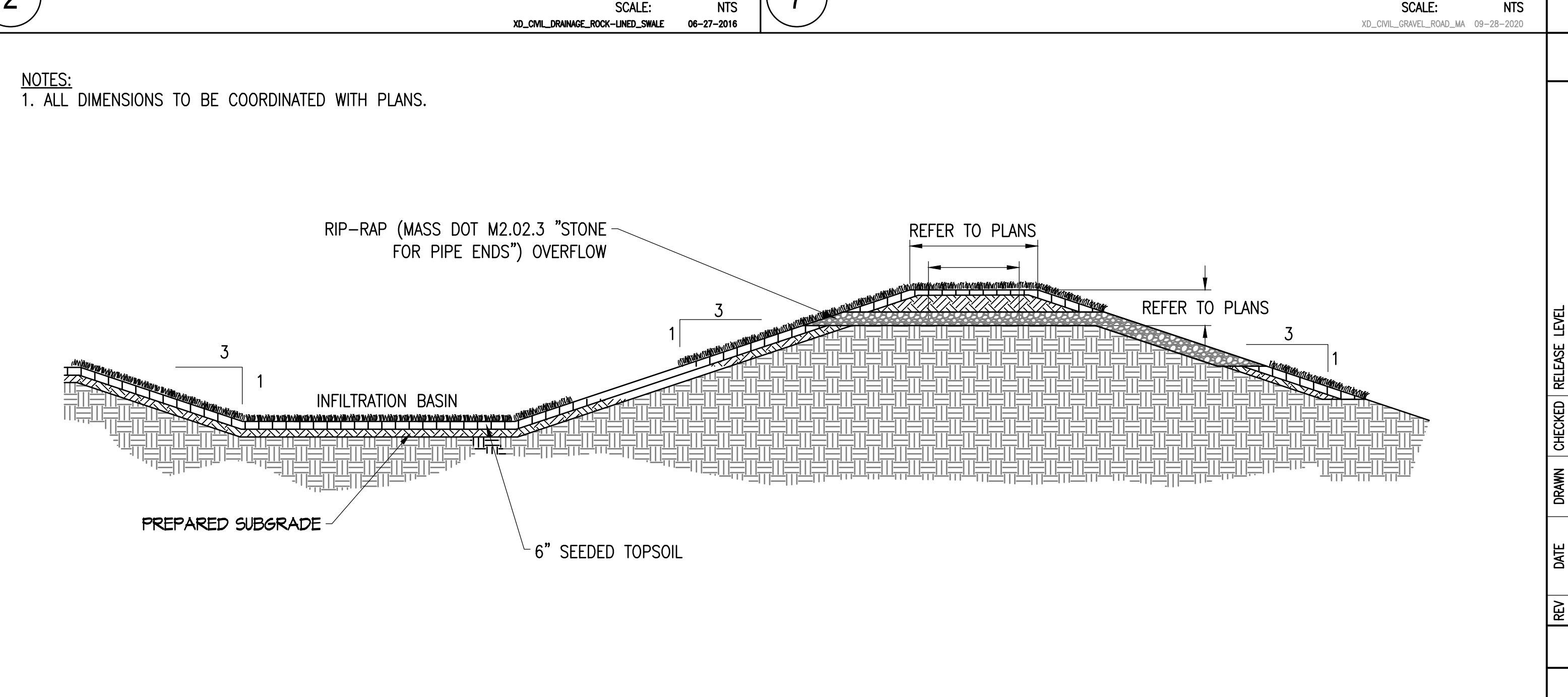
2 VEGETATED OPEN SWALE  
 SCALE: NTS  
 XD\_CIVIL\_DRAINAGE\_ROCK-LINED\_SWALE\_08-27-2016



7 RECLAIMED PAVEMENT BORROW DRIVEWAY  
 SCALE: NTS  
 XD\_CIVIL\_DRANAGE\_ROAD\_MA\_09-28-2020

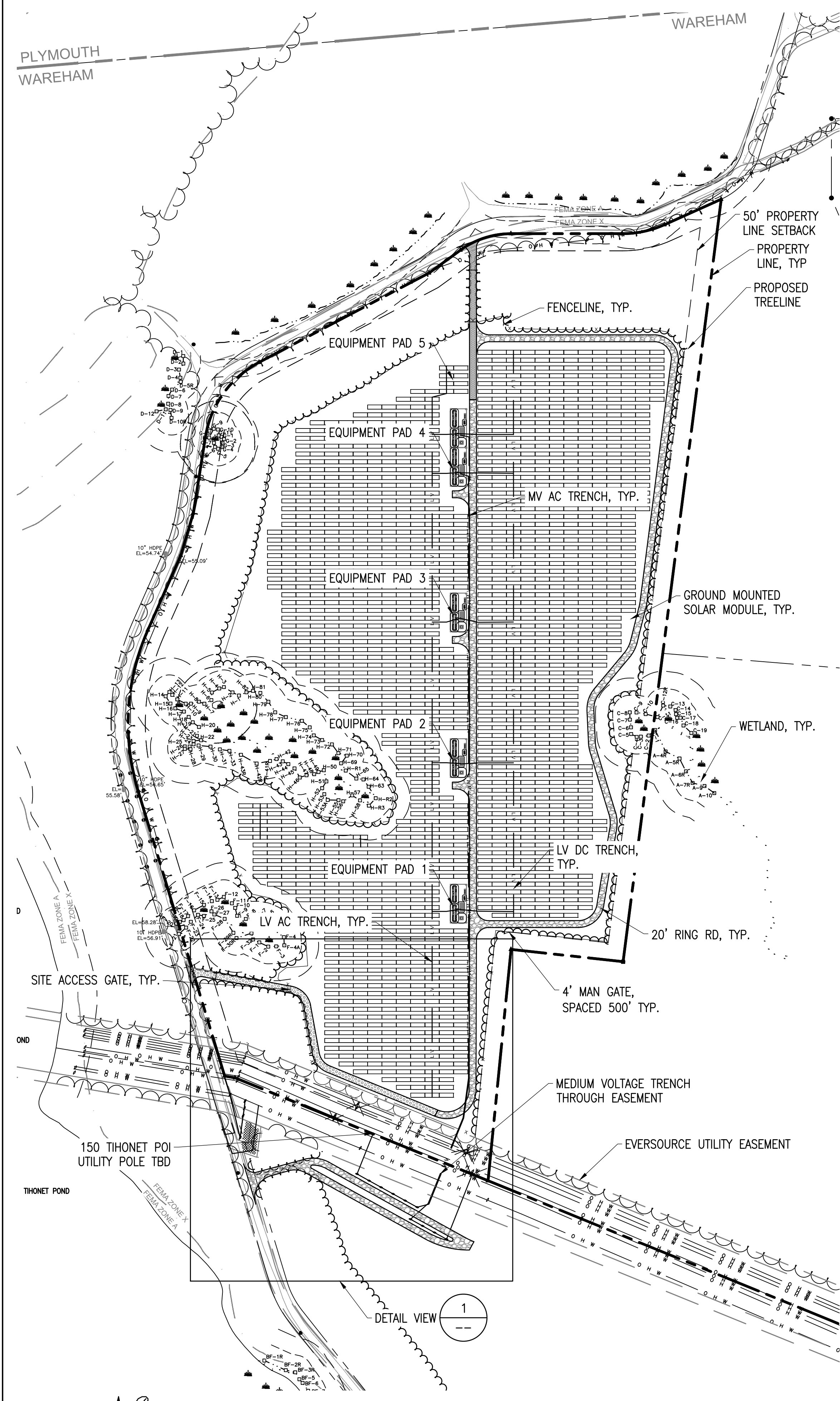


3 CULVERT CROSSING ACCESS ROAD - BASIN TO BASIN  
 SCALE: NTS  
 XD\_CIVIL\_DRAINAGE\_DETENTION\_BASIN\_WITH\_RISER\_08-16-2018



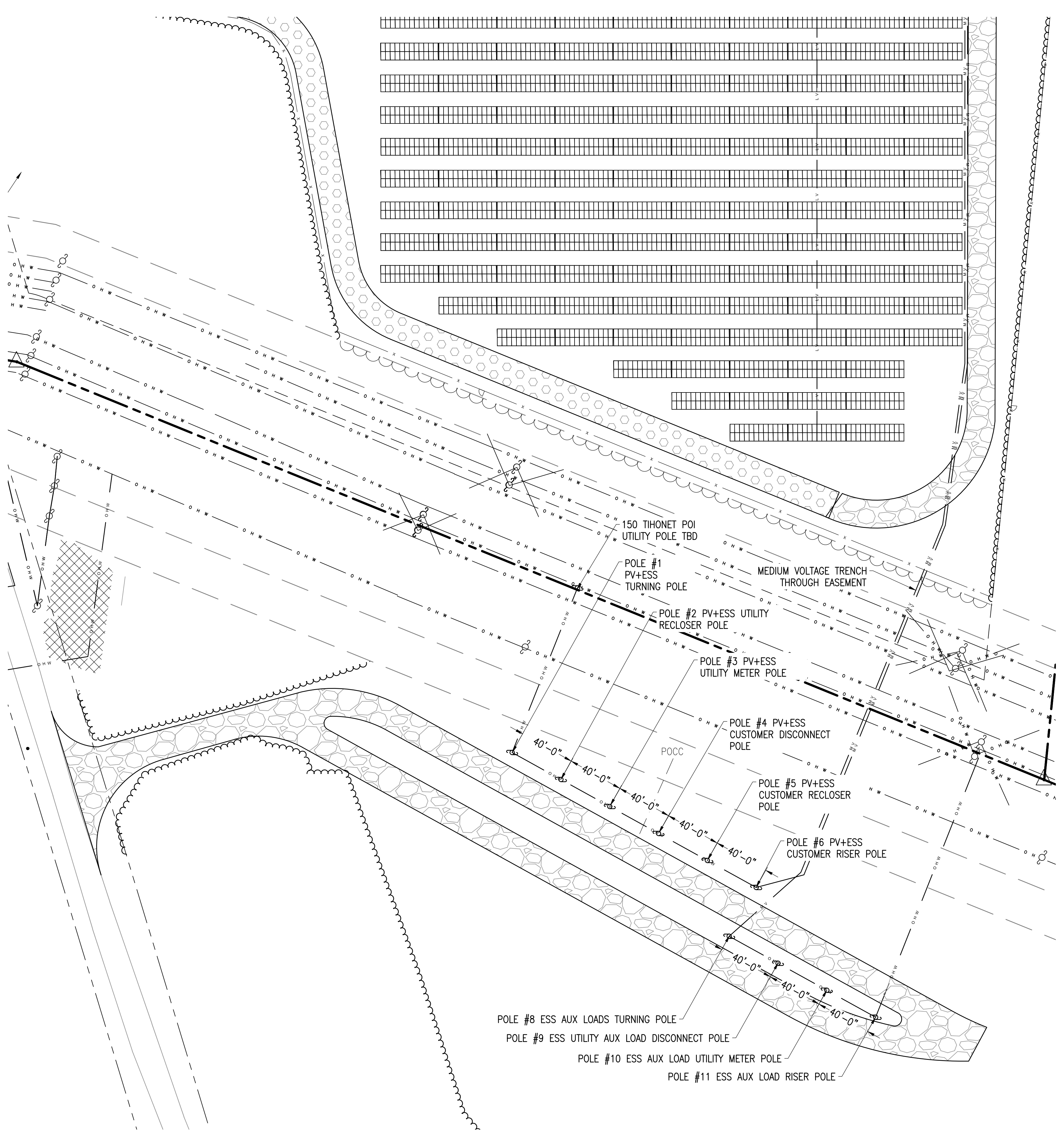
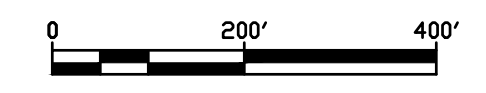
8 INFILTRATION BASIN - NO OUTLET PIPE  
 SCALE: NTS  
 XD\_CIVIL\_DRAINAGE\_INFILTRATION\_BASIN\_NO\_PIPE\_12-08-2020





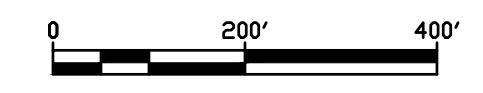
# ELECTRICAL SITE PLAN

SCALE: 1" = 200'



# DETAIL VIEW

SCALE: 1" = 40'



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*Charles D. Smith*  
12/15/20

SITE USE PLANS  
150 THONET ROAD  
WAREHAM, MA 02571

PROJECT NUMBER:  
905-2710

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
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**E-1.0**  
ELECTRICAL SITE PLAN