

PROPOSED SITE DEVELOPMENT

CEC SOLAR #1056 LLC

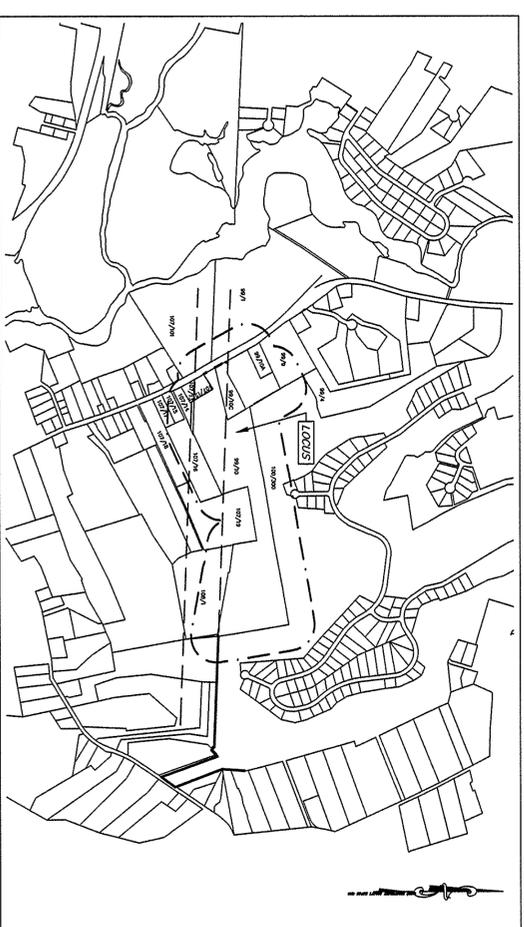
SITE DRAWINGS

ISSUED FOR: PERMITTING
 DATE ISSUED: AUGUST 12, 2015
 LATEST ISSUE: OCTOBER 3, 2016

207 PROVIDENCE ROAD GRAFTON, MASSACHUSETTS



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	SPECIAL PERMIT/SITE PLAN APPROVAL DECISIONS



LOT NO.	OWNER OF RECORD
99/1	JOHN H. MAGILL
99/2	HILWEN ESTATE INC. TRUSTEE
99/3	PROVIDENCE ROAD COMMONS, LLC
99/4	JOHN D. KIMBERLY KELL
99/5	SANDRA JEAN SHIELDS
100/200	MAGILL ASSOCIATES
100/201	NEW ENGLAND POWER COMPANY
100/202	NEW ENGLAND POWER COMPANY
100/203	NEW ENGLAND POWER COMPANY
100/204	LAURA A. & PRIMO BORGELLI III
100/205	WALTER LUISER
100/206	ROBERT HILTONSKI & STEPHEN A. HILTONSKI
100/207	ROBERT HILTONSKI & STEPHEN A. HILTONSKI
100/208	JOHN A. GENDRON & JOYCE A. GIBBEE
100/209	MARTIN D. SZERBAG JR. & FRANK J. SZERBAG
100/210	BRODMENKOW REALTY LLC
100/211	SUSAN TOKMEWICZ ET ALS TRUSTEES

THIS IS TO CERTIFY THAT THIS PLAN WAS DESIGNED TO COMPLY WITH THE PERFORMANCE STANDARDS SET FORTH SECTION 4.1 OF THE TOWN OF GRAFTON ZONING BY-LAWS.

REGISTERED PROFESSIONAL ENGINEER
 DATE: 10/31/16



ENGINEER:
 FIELD ENGINEERING CO., INC.
 110 INDUSTRIAL DRIVE
 P.O. BOX 1178
 MATTAPANSETT, MASSACHUSETTS 02739

APPLICANT:
 CEC SOLAR #1056 LLC
 C/O CLEAN ENERGY COLLECTIVE, LLC
 146 W. BOYLSTON DRIVE
 WORCESTER, MASSACHUSETTS 01606

PROPERTY OWNERS:
 ROBERT & KAREN KELL
 207 PROVIDENCE ROAD
 GRAFTON, MASSACHUSETTS 01519-1506

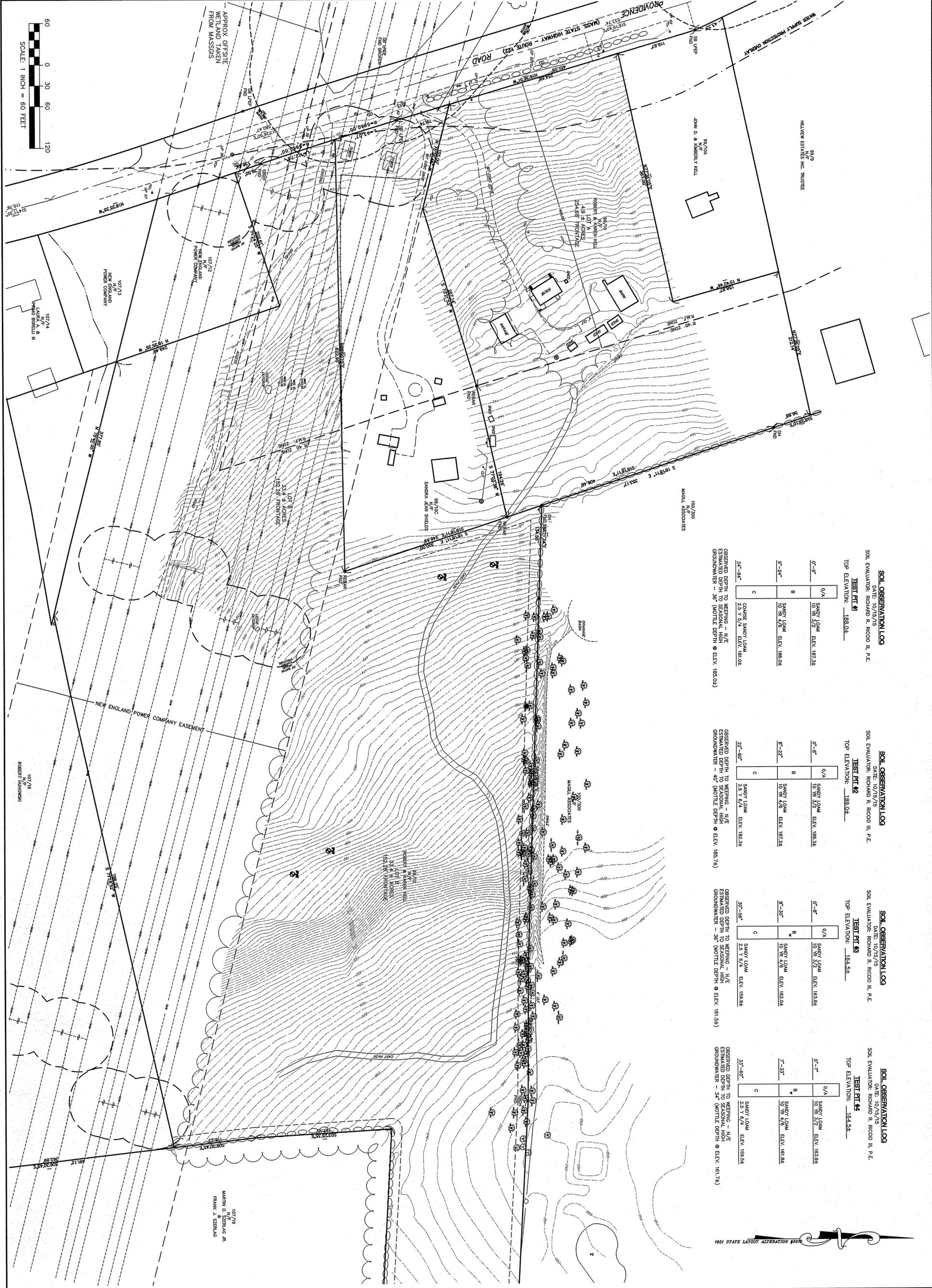
PROJECT LOCATION:
 207 PROVIDENCE ROAD
 ASSESSORS MAP 99, LOT 10
 GRAFTON, MASSACHUSETTS

PROPOSED SITE DEVELOPMENT
 MAP 99, LOT 10
 207 PROVIDENCE ROAD
 GRAFTON, MA

FIELD ENGINEERING CO., INC.
 CONSULTING ENGINEERS
 110 INDUSTRIAL DRIVE
 P.O. BOX 1178
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 TEL: (508) 824-9279
 FAX: (508) 795-2949

THE GROCER BUILDING
 175 STATE STREET
 TAUNTON, MA 02789
 TEL: (508) 824-9279
 FAX: (508) 824-9276

Project No. 2035 Sheet 1 OF 14



SOIL OBSERVATION LOG	
DATE: 10/15/15	SOIL EVALUATOR: RICHARD R. RICOLO III, P.E.
TEST PIT #1	TOP ELEVATION: 188.02'
0'-3"	0/A SANDY LOAM ELEV. 187.32
3'-24"	B SANDY LOAM ELEV. 186.02
24'-54"	C COARSE SANDY LOAM ELEV. 181.02
OBSERVED DEPTH TO WEIRING - N/E ESTIMATED DEPTH TO SEASONAL HIGH GROUNDWATER - 38' (NOTLE DEPTH @ ELEV. 183.04)	
TEST PIT #2	
DATE: 10/15/15	SOIL EVALUATOR: RICHARD R. RICOLO III, P.E.
TOP ELEVATION: 188.02'	
0'-5"	0/A SANDY LOAM ELEV. 188.32
5'-22"	B SANDY LOAM ELEV. 187.22
22'-80"	C SANDY LOAM ELEV. 182.32
OBSERVED DEPTH TO WEIRING - N/E ESTIMATED DEPTH TO SEASONAL HIGH GROUNDWATER - 40' (NOTLE DEPTH @ ELEV. 185.72)	
TEST PIT #3	
DATE: 10/15/15	SOIL EVALUATOR: RICHARD R. RICOLO III, P.E.
TOP ELEVATION: 184.52'	
0'-8"	0/A SANDY LOAM ELEV. 183.82
8'-30"	B SANDY LOAM ELEV. 182.02
30'-58"	C SANDY LOAM ELEV. 178.82
OBSERVED DEPTH TO WEIRING - N/E ESTIMATED DEPTH TO SEASONAL HIGH GROUNDWATER - 58' (NOTLE DEPTH @ ELEV. 181.52)	
TEST PIT #4	
DATE: 10/15/15	SOIL EVALUATOR: RICHARD R. RICOLO III, P.E.
TOP ELEVATION: 184.52'	
0'-7"	0/A SANDY LOAM ELEV. 183.52
7'-33"	B SANDY LOAM ELEV. 181.82
33'-60"	C SANDY LOAM ELEV. 179.52
OBSERVED DEPTH TO WEIRING - N/E ESTIMATED DEPTH TO SEASONAL HIGH GROUNDWATER - 54' (NOTLE DEPTH @ ELEV. 181.72)	



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4 COURT STREET SUITE 104
TAUNTON, MA 02780
TEL: (508) 824-8270
TEL: (508) 824-8271
FAX: (508) 824-8270

No.	Date	Description	Date	Appvd
1	8/12/15	COMMENT LETTERS		
2		CONTRACT REVIEW		
3		WADSWORTH REVIEW		
4		REVISION FOR RRR		
5		REVISION FOR RRR		
6		REVISION FOR RRR		
7		REVISION FOR RRR		
8		REVISION FOR RRR		
9		REVISION FOR RRR		
10		REVISION FOR RRR		

Scale: 1"=60'

Drawn By: RRR
Designed By: RRR
Checked By: RRR
Issued For: PERMITTING

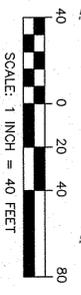
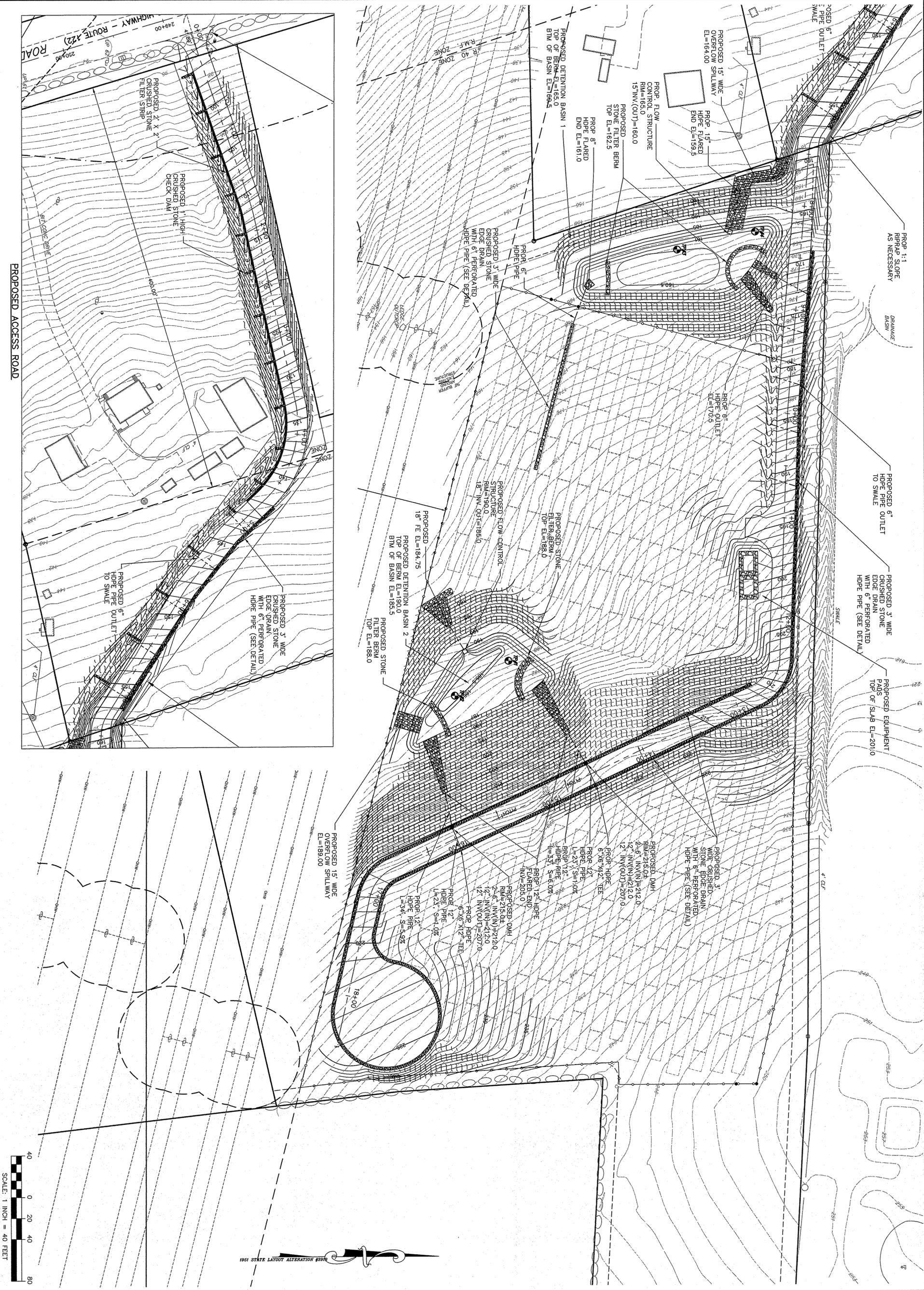
PROPOSED SITE DEVELOPMENT
CEC SOLAR #1056 LLC

207 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS

Drawing Title: EXISTING CONDITIONS

Project No: 2035
Sheet: 3 OF 14

EC-1



FIELD ENGINEERING CO., INC.
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THE CROCKER BUILDING
4 COURT STREET SUITE 104
TAUNTON, MA 02780
TEL: (508) 824-8279
FAX: (508) 824-8278

Revisions			
No.	Description	Date	App'd
1	COMMENT LETTERS	10/5/15	RRR
2	CONSULTANT REVIEW	10/22/15	RRR
3	REVISION FOR NEW	7/22/16	RRR
4	REVISION FOR NEW	9/1/16	RRR
5	ADD SHEET 14	10/21/16	RRR

Scale: 1"=40'

Drawn By: RMS
Designed By: RRR
Checked By: RRR

Issued For: **PERMITTING**



PROPOSED SITE DEVELOPMENT
CEC SOLAR #1056 LLC

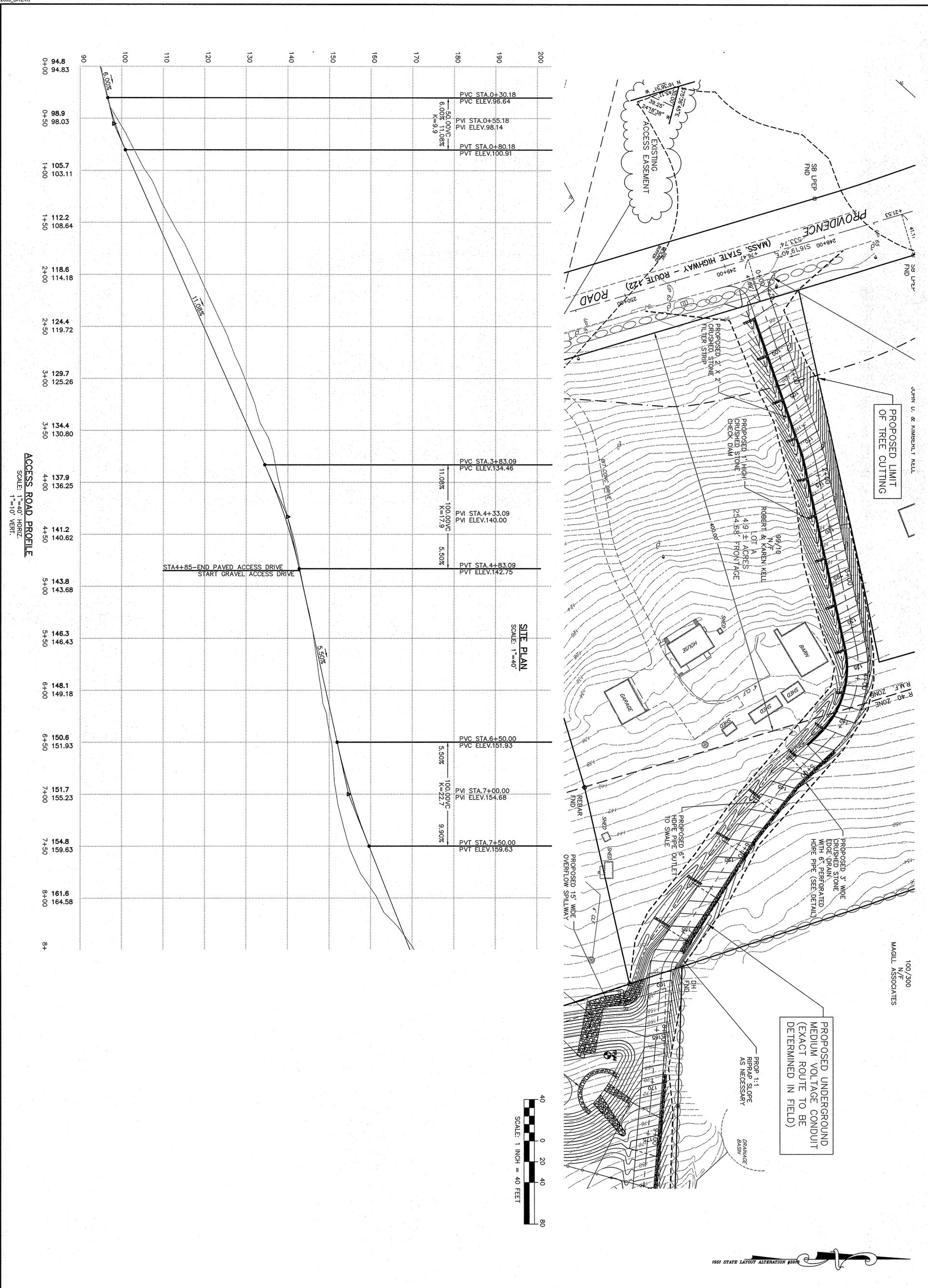
207 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS

Drawing Title: **SOLAR ARRAY GRADING & DRAINAGE**

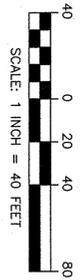
Project No: 2035

Sheet: 5 OF 14

SGD-1



ACCESS ROAD PROFILE
SCALE: 1"=40' HORIZ.
1"=10' VERT.



PROPOSED LIMIT OF TREE CUTTING

PROPOSED UNDERGROUND MEDIUM VOLTAGE CONDUIT (EXACT ROUTE TO BE DETERMINED IN FIELD)

100/300 N/F MAGILL ASSOCIATES

1961 STATE LAYOUT ALTERATION #399

FIELD ENGINEERING CO., INC.
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Revisions	
No.	Description
1	COMMENTS LETTERS
2	CONSULTANT REVIEW
3	REVISIONS PER RRR
4	REVISIONS PER RRR
5	CONSTRUCTION PER RRR
6	PERMITS PER RRR
7	AS BUILT PER RRR

Scale: 1"=40'
Date: 8/12/15
Drawn By: RMS
Designed By: RRR
Checked By: RRR
Issued For: PERMITTING

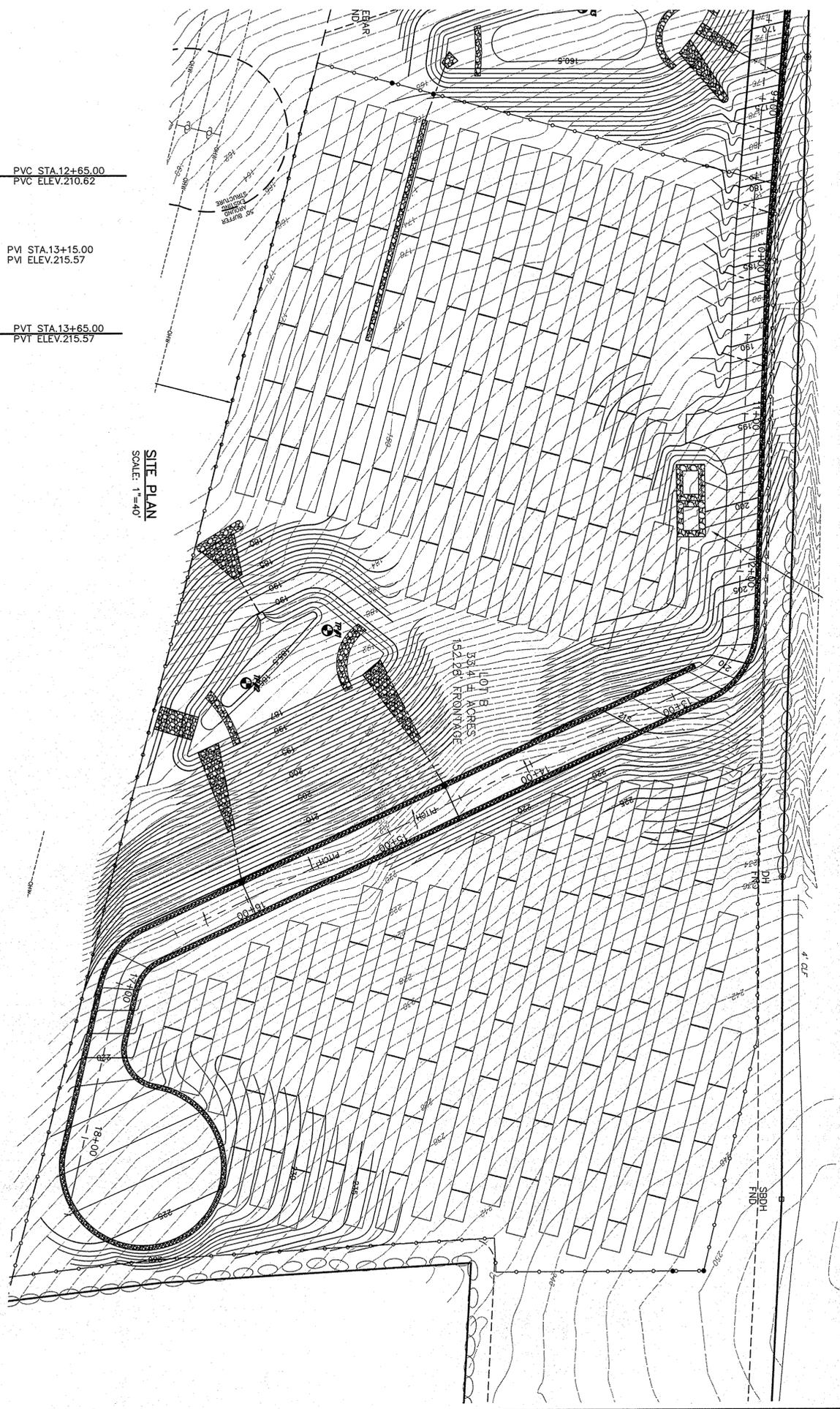
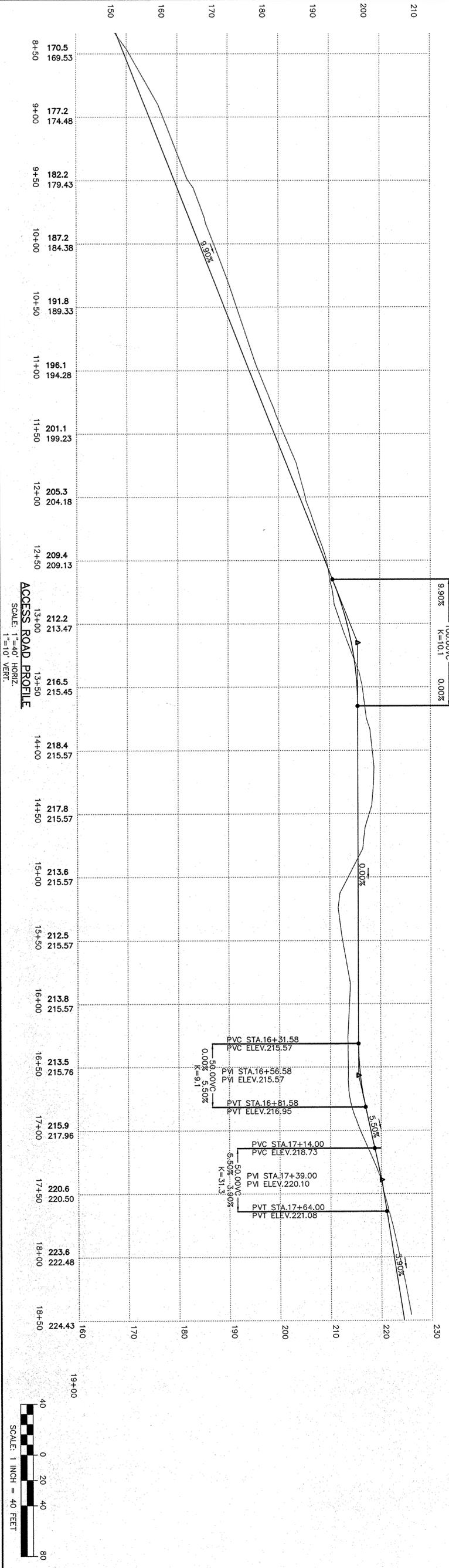


PROPOSED SITE DEVELOPMENT
CEC SOLAR #1056 LLC
207 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS

Drawing Title
ACCESS ROAD PLAN & PROFILE

Project No. 2035
Sheet 6 OF 14

PP-1



FIELD ENGINEERING CO., INC.
CONSULTING ENGINEERS
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THE CROCKER BUILDING
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TAUNTON, MA 02780
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FAX: (508) 824-8278

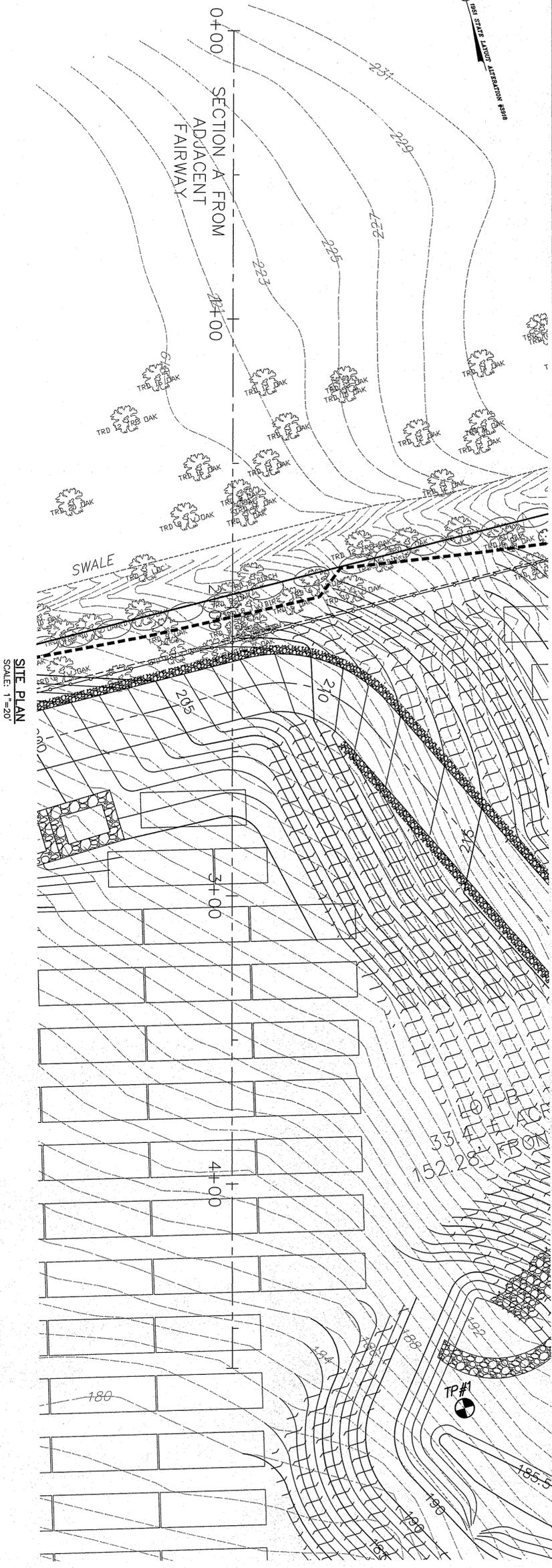
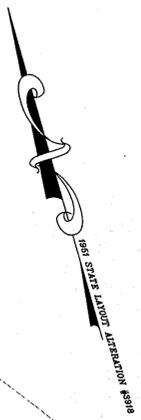
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1	COMMENT LETTERS	10/09/16	RRR
2	CONSENT LETTERS	10/22/16	RRR
3	WORKITEMS PER	7/22/16	RRR
4	CONSTRUCTION	9/14/15	RRR
5	ADD SHEET 14	10/04/16	RRR

PERMITTING
Scale: 1"=40'
Drawn By: RMS
Designed By: RRR
Checked By: RRR
Issued For: RRR

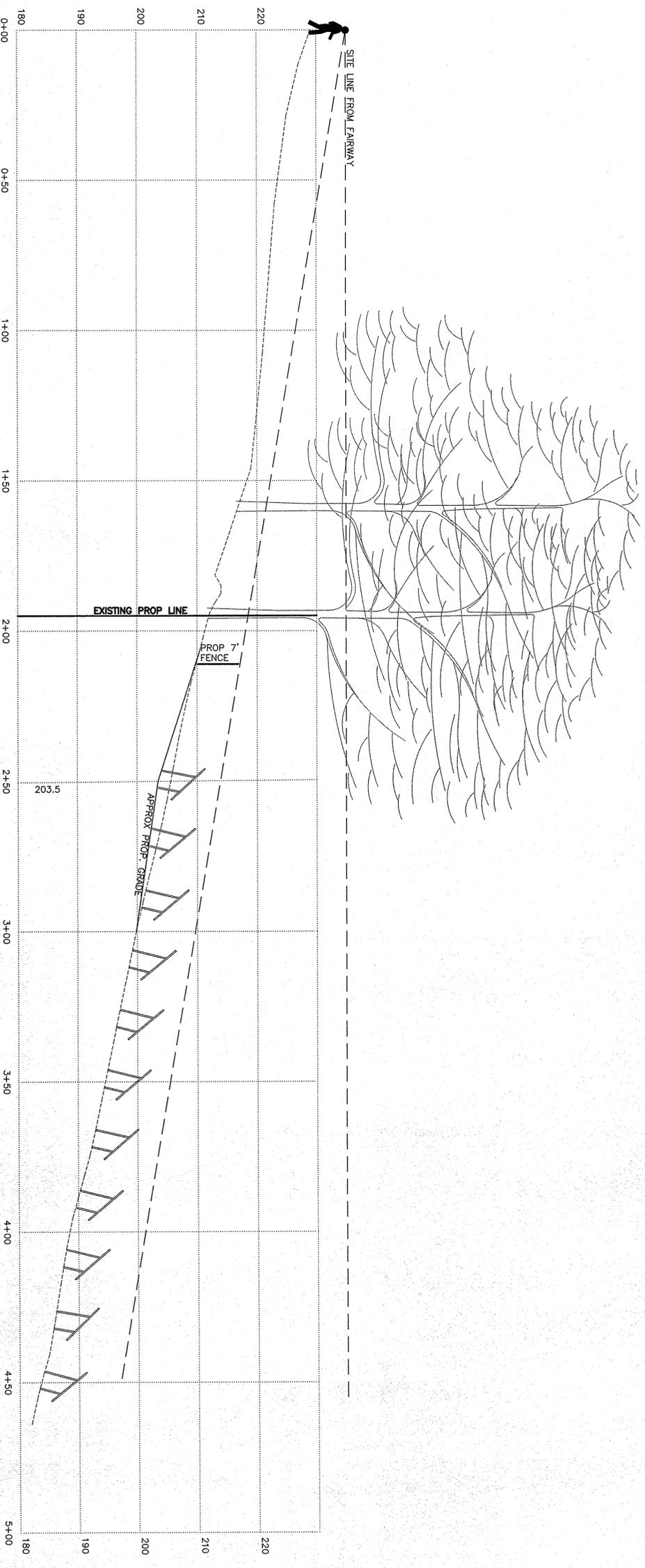


PROPOSED SITE DEVELOPMENT
CEC SOLAR #1056 LLC
207 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS

Drawing Title:
ACCESS ROAD PLAN & PROFILE
Project No: 2035
Sheet: 7 OF 14
PP-2



SITE PLAN
SCALE: 1"=20'



PROFILE A
SCALE: 1"=20' HORIZ.
1"=10' VERT.

FIELD ENGINEERING CO., INC.
CONSULTING ENGINEERS
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Revisions			
No.	Description		
5	ADDSHEET 14 PERMITS SECTION		
4	CONSTRUCTION		
3	REVISED FOR NEW		
2	MINOR REVISIONS PER		
1	CONSULTANT REVIEW		
No.	Description	Date	Appvd.
1	COMMENT LETTERS	10/9/15	RRR
Date		8/12/15	

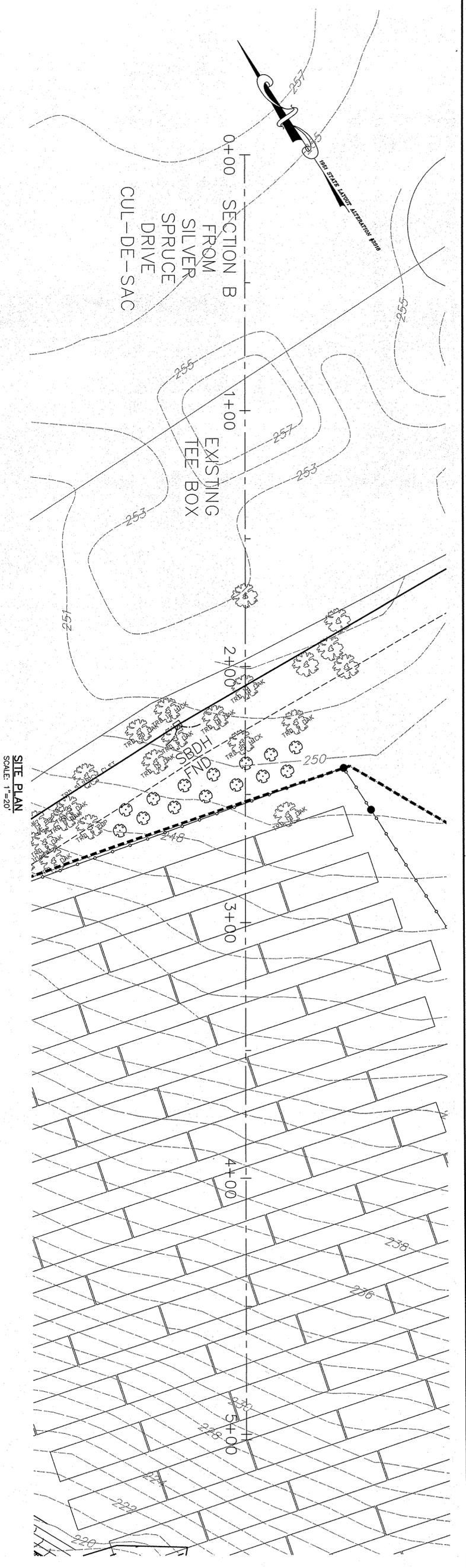
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Checked By: RRR
Issued For: PERMITTING



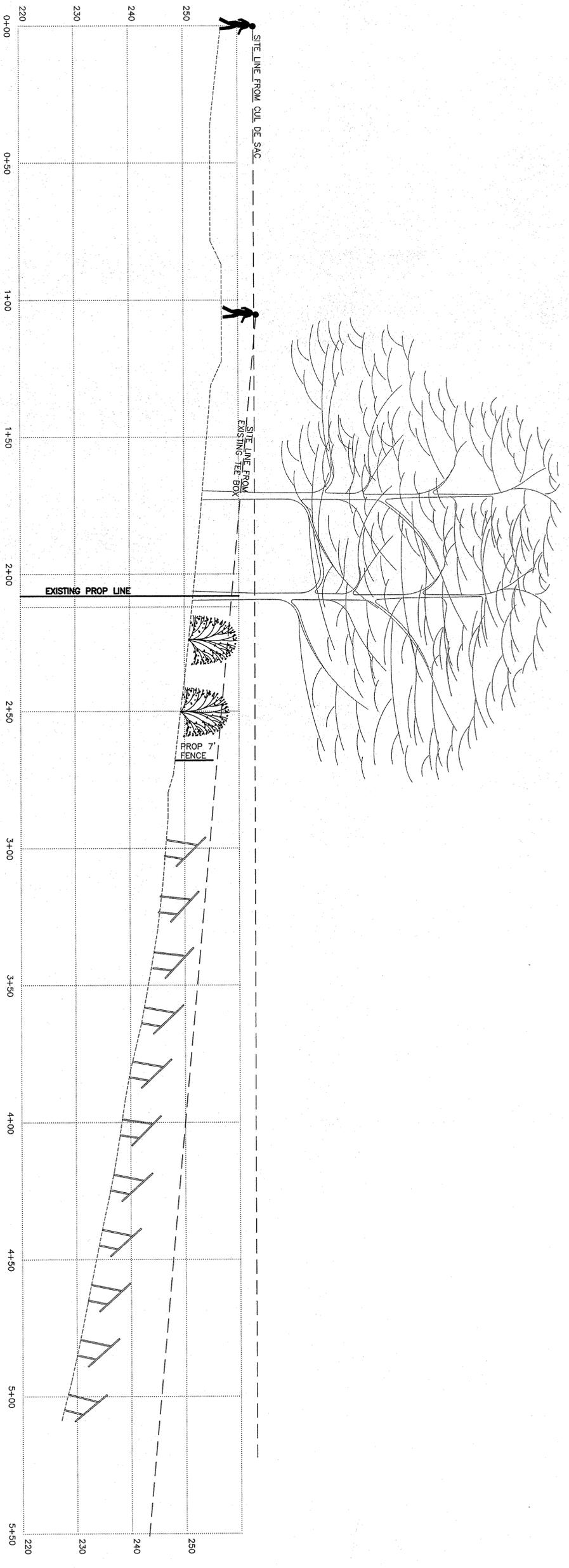
PROPOSED SITE DEVELOPMENT
CEC SOLAR #1056 LLC
207 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS

Drawing Title
VIEW STUDY FROM ADJACENT FAIRWAY
Project No. 2035
Sheet 10 OF 14

VS-1



SITE PLAN
SCALE: 1"=20'



PROFILE B
SCALE: 1"=20' HORIZ.
1"=10' VERT.

FIELD ENGINEERING CO., INC.
CONSULTING ENGINEERS
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THE CROCKER BUILDING
4 COURT STREET SUITE 104
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FAX: (508) 824-9276

Revisions	
No.	Description
5	ADD SHEET 14
4	PERM DECISION
3	REVISION FOR NEW
2	MINOR REVISIONS PER
1	CONSULTANT REVIEW
	COMMENT LETTERS
Date	8/12/15

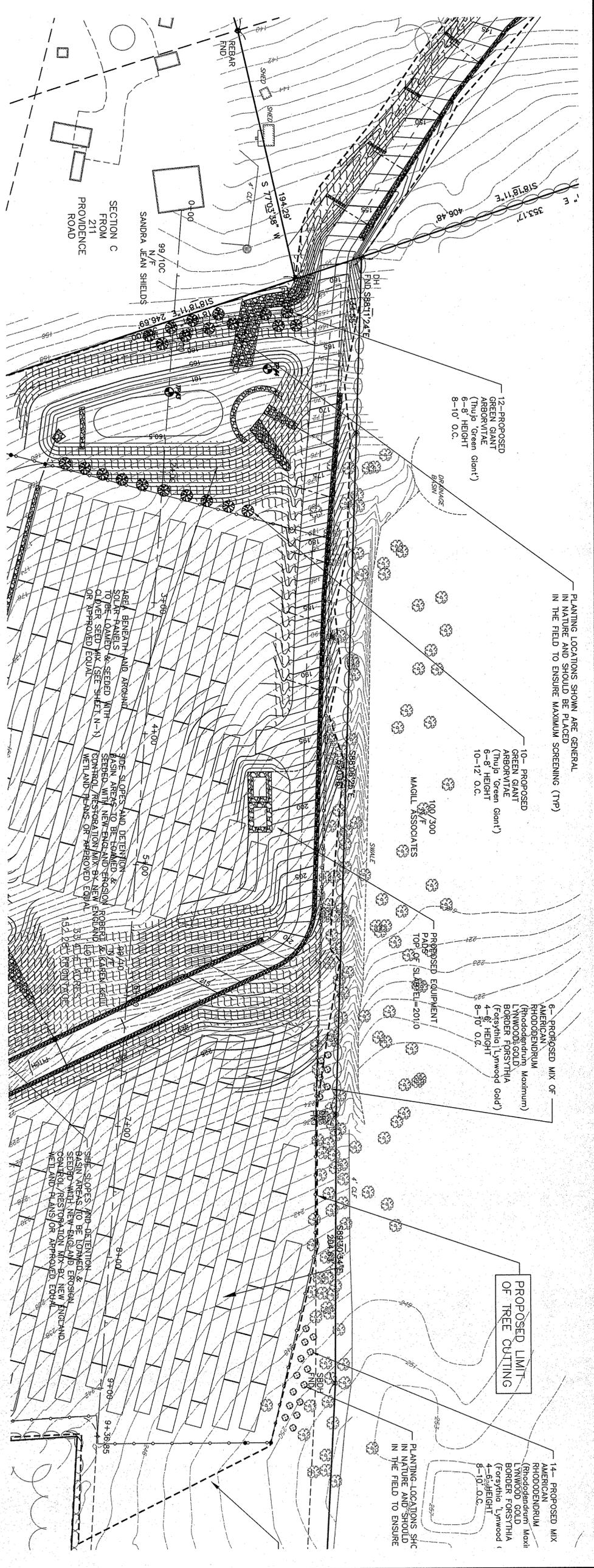
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 Drawn By: RMS
 Designed By: RRR
 Checked By: RRR
 Issued For: PERMITTING



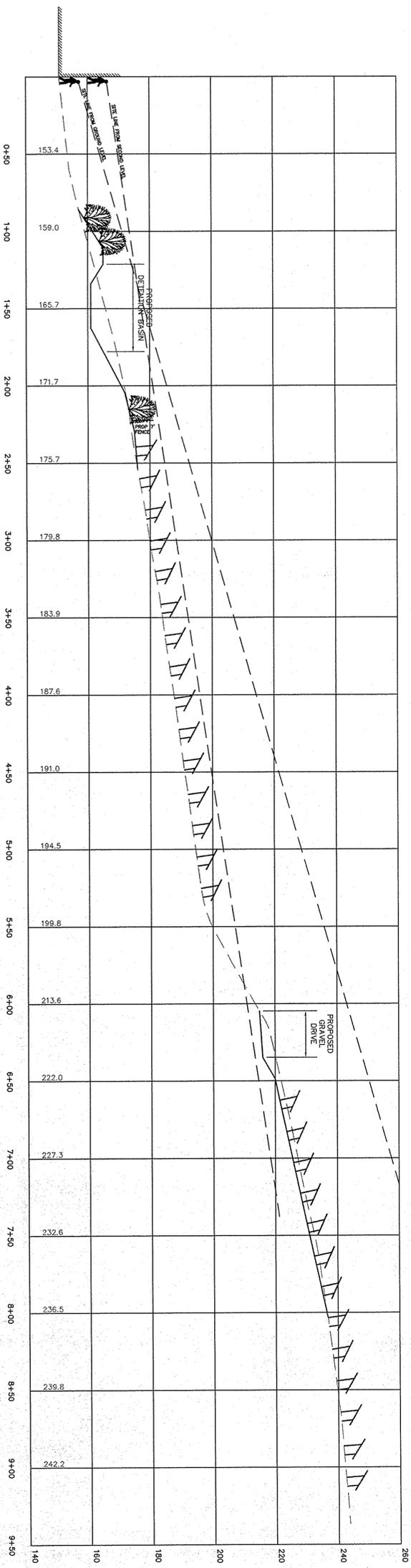
PROPOSED SITE DEVELOPMENT
 CEC SOLAR #1056 LLC
 207 PROVIDENCE ROAD
 GRAFTON, MASSACHUSETTS

Drawing Title:
VIEW STUDY FROM SILVER SPRUCE DR
 Project No.: 2035
 Sheet: 11 OF 14

VS-2



SITE PLAN
SCALE: 1"=40'



FIELD ENGINEERING CO., INC.
CONSULTING ENGINEERS

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FAX: (978) 824-8278

Revisions	
No.	Description
5	ADD SHEET 14
4	PER PERMITION CONSTRUCTION
3	REDESIGN FOR NEW MANHOLES PER 10/22/15 RRR
2	CONSULTANT REVIEW COMMENT LETTERS
1	DATE

Date: 8/12/15

Scale: AS NOTED

Drawn By: FMS
Designed By: RRR
Checked By: RRR

Issued For: **PERMITTING**



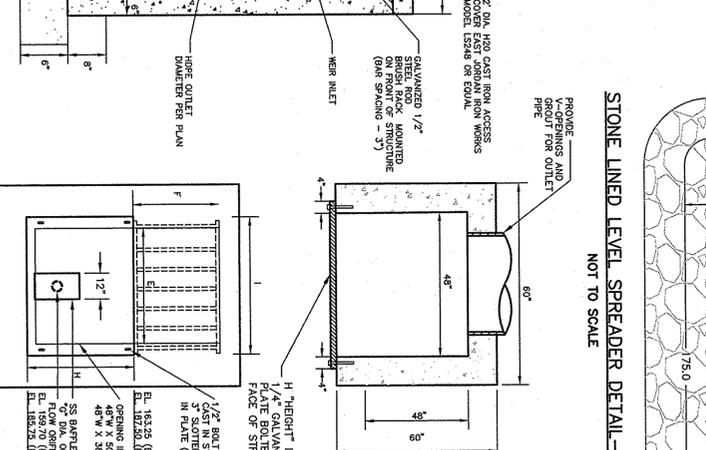
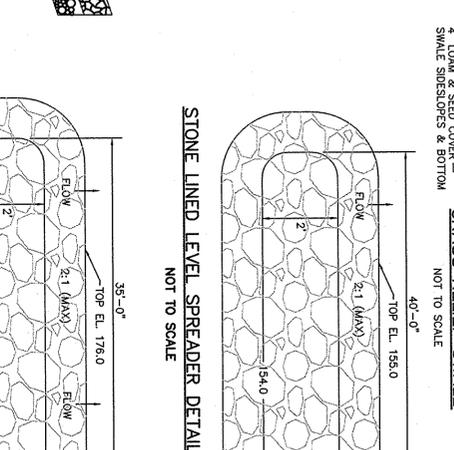
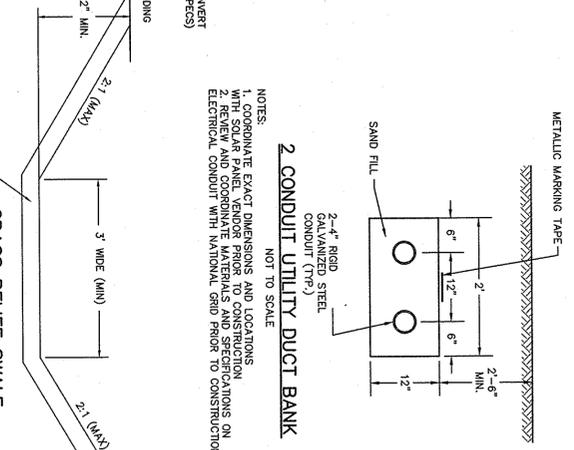
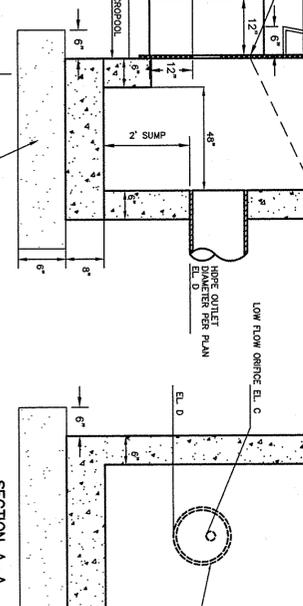
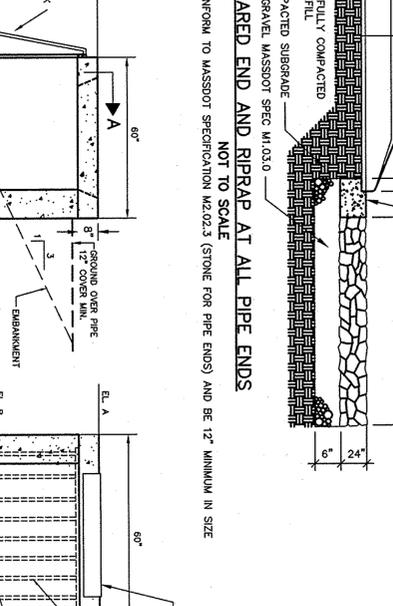
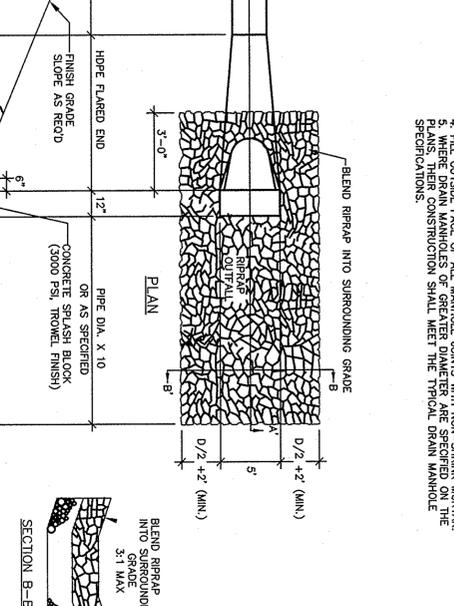
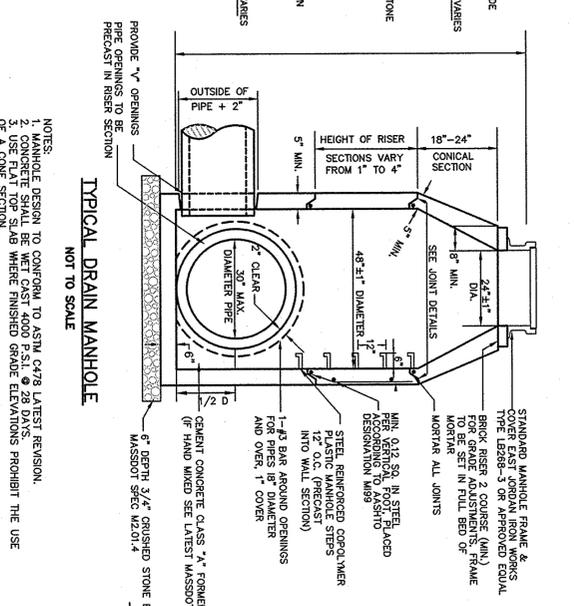
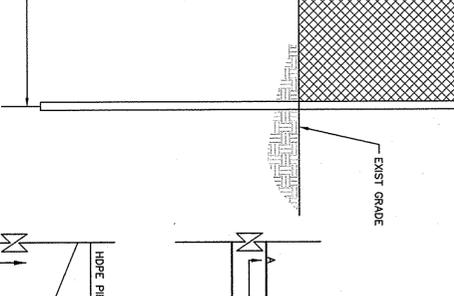
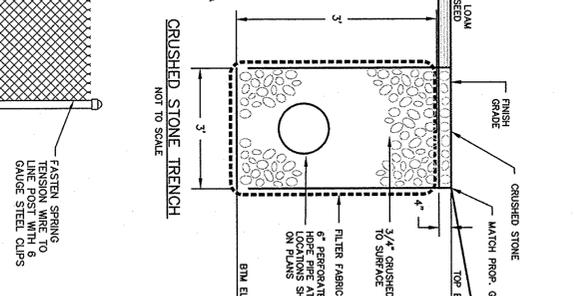
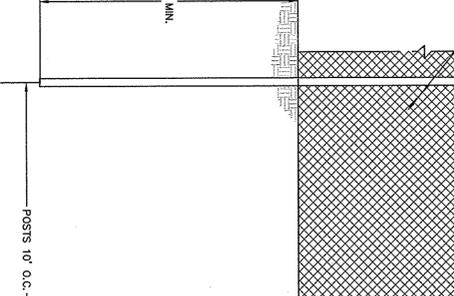
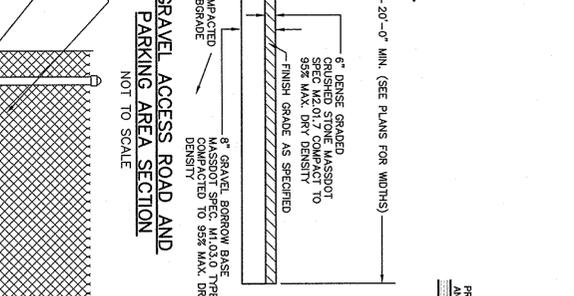
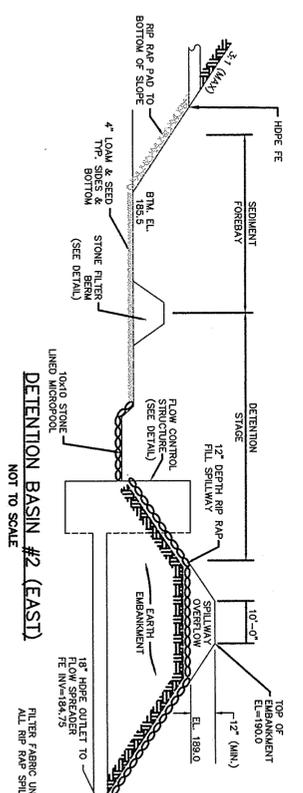
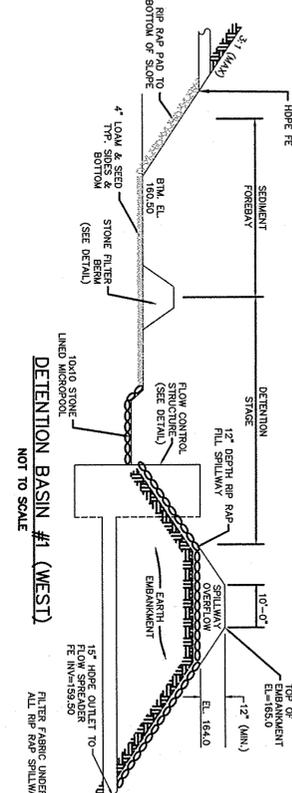
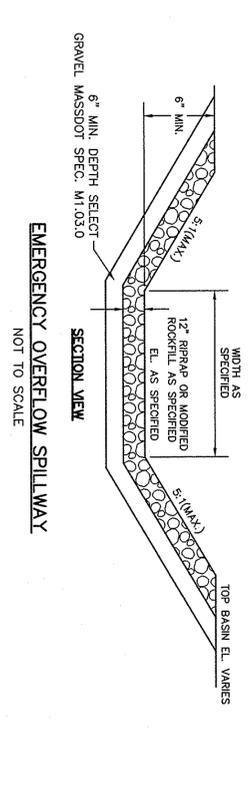
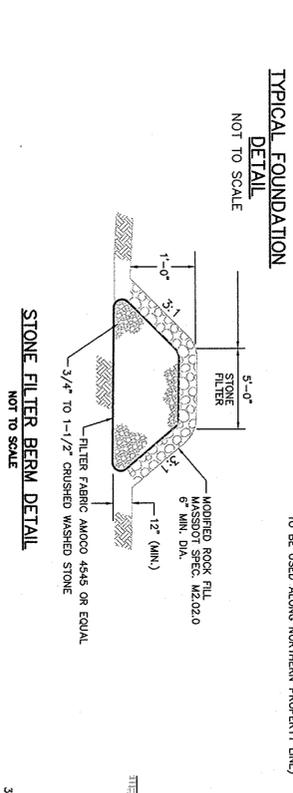
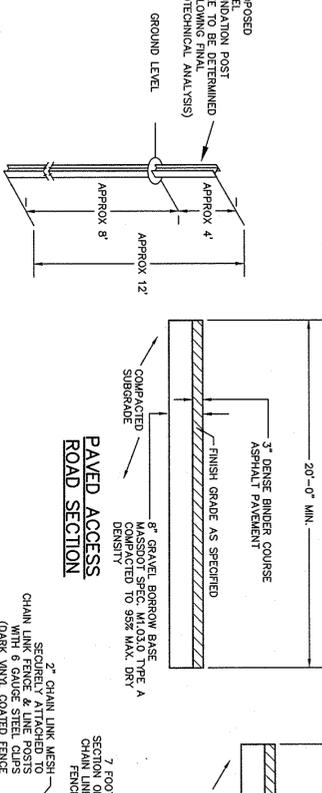
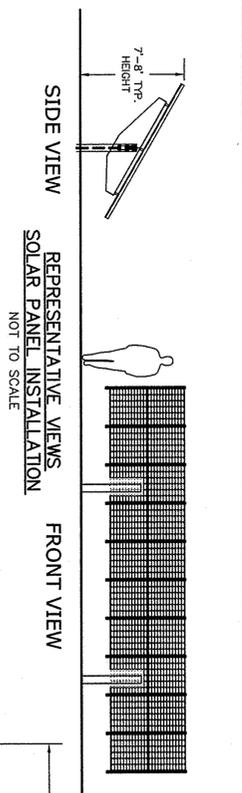
PROPOSED SITE DEVELOPMENT
CEC SOLAR #1056 LLC

207 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS

Drawing Title
VIEW STUDY FROM 211 PROVIDENCE RD

Project No.: 2035
Sheet: 12 OF 14

VS-3



STRUCTURE:	A	B	C	D	E	F	G	H	I
DETENTION BASIN #1	164.87	163.25	161.00	160.00	48"	10"	6"	43"	52"
DETENTION BASIN #2	190.00	187.50	186.00	186.00	48"	20"	4"	21"	52"

FIELD ENGINEERING CO., INC.
CONSULTING ENGINEERS

110 INDUSTRIAL DRIVE
P.O. BOX 1178
MATTAPAN, MA 02729
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4 COURT STREET SUITE 104
ADULTON, MA 02820
TEL: (908) 758-2749
FAX: (908) 924-8276

PROPOSED SITE DEVELOPMENT
CEC SOLAR #1056 LLC

207 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS

Project No: 2035 Sheet: 13 OF 14

DET-1

PERMITTING

Scale: NO SCALE

Drawn By: RRR Designed By: RRR Checked By: RRR

Issued For: [Signature]

Date: 8/12/15

Revisions:

1	ADDSHEET 1	10/16	RRR
2	ADDSHEET 2	10/16	RRR
3	CONSTRUCTION	9/16	RRR
4	ACCESS ROAD	7/21/16	RRR
5	MANHOLES/STREETS	10/21/16	RRR
6	CONCRETE/PIPE	10/21/16	RRR
7	COMMENT LETTERS	10/21/16	RRR

