

PROPOSED SITE DEVELOPMENT CEC SOLAR #1056 LLC

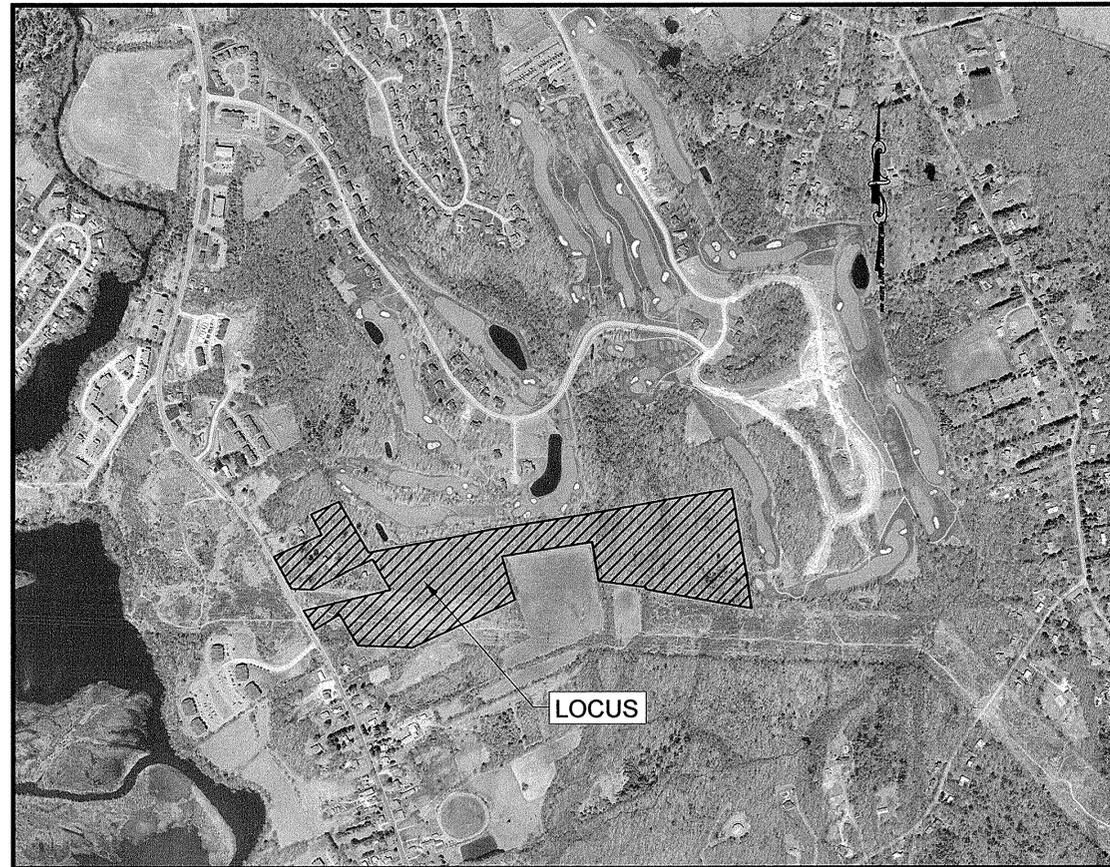
SITE DRAWINGS

ISSUED FOR: PERMITTING
DATE ISSUED: AUGUST 12, 2015
LATEST ISSUE: JULY 22, 2016

207 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS

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SCALE: 1"=600'



SCALE: 1"=1000'

--- 300' NOTIFICATION LINE
— PROJECT SITE

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.

Richard R. Riccio III
REGISTERED PROFESSIONAL ENGINEER

7/26/16
DATE

LOT NO.	OWNER OF RECORD
99/1	JOHN H. MAGILL
99/4	HILLVIEW ESTATE INC. TRUSTEE
99/9	PROVIDENCE ROAD COMMONS, LLC
99/10A	JOHN D. KIMBERLY KELL
99/10C	SANDRA JEAN SHIELDS
100/300	MAGILL ASSOCIATES
107/12	NEW ENGLAND POWER COMPANY
107/13	NEW ENGLAND POWER COMPANY
107/14	LAURA A. & PRIMO BORELLI III
107/15	WALTER LUSSIER
107/16	ROBERT HUHOWSKI & STEPHEN A. HUCHOWSKI
107/17	ROBERT HUHOWSKI & STEPHEN A. HUCHOWSKI
107/18	JOHN A. GENDRON & JOYCE A. GIBREE
107/19	MARTIN D. SZERLAG JR. & FRANK J. SZERLAG
107/101	BROADMEADOW REALTY LLC
108/1	SUSAN TOMKIEWICZ ET ALS TRUSTEES

PROPOSED
SITE
DEVELOPMENT

MAP 99, LOT 10
207 PROVIDENCE ROAD
GRAFTON, MA



ENGINEER:

FIELD ENGINEERING CO., INC.
11D INDUSTRIAL DRIVE
P.O. BOX 1178
MATTAPOISETT, 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

**FIELD
ENGINEERING
CO., INC.**
CONSULTING ENGINEERS

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THE CROCKER BUILDING
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TAUNTON, MA 02780
TEL: (508) 824-9279
FAX: (508) 824-9276



SOIL OBSERVATION LOG

DATE: 10/15/15
SOIL EVALUATOR: RICHARD R. RICCIO III, P.E.

TEST PIT #1
TOP ELEVATION: 188.0±

0"-9"	O/A	SANDY LOAM 10 YR 3/2	ELEV. 187.3±
9"-24"	B	SANDY LOAM 10 YR 4/6	ELEV. 186.0±
24"-84"	C	COARSE SANDY LOAM 2.5 Y 5/4	ELEV. 181.0±

OBSERVED DEPTH TO WEEPING - N/E
ESTIMATED DEPTH TO SEASONAL HIGH
GROUNDWATER - 36" (MOTTLE DEPTH @ ELEV. 185.0±)

SOIL OBSERVATION LOG

DATE: 10/15/15
SOIL EVALUATOR: RICHARD R. RICCIO III, P.E.

TEST PIT #2
TOP ELEVATION: 189.0±

0"-8"	O/A	SANDY LOAM 10 YR 3/2	ELEV. 188.3±
8"-22"	B	SANDY LOAM 10 YR 4/6	ELEV. 187.2±
22"-80"	C	SANDY LOAM 2.5 Y 6/4	ELEV. 182.3±

OBSERVED DEPTH TO WEEPING - N/E
ESTIMATED DEPTH TO SEASONAL HIGH
GROUNDWATER - 40" (MOTTLE DEPTH @ ELEV. 185.7±)

SOIL OBSERVATION LOG

DATE: 10/15/15
SOIL EVALUATOR: RICHARD R. RICCIO III, P.E.

TEST PIT #3
TOP ELEVATION: 164.5±

0"-8"	O/A	SANDY LOAM 10 YR 3/2	ELEV. 163.8±
8"-30"	B	SANDY LOAM 10 YR 4/6	ELEV. 162.0±
30"-66"	C	SANDY LOAM 2.5 Y 6/4	ELEV. 159.8±

OBSERVED DEPTH TO WEEPING - N/E
ESTIMATED DEPTH TO SEASONAL HIGH
GROUNDWATER - 36" (MOTTLE DEPTH @ ELEV. 161.5±)

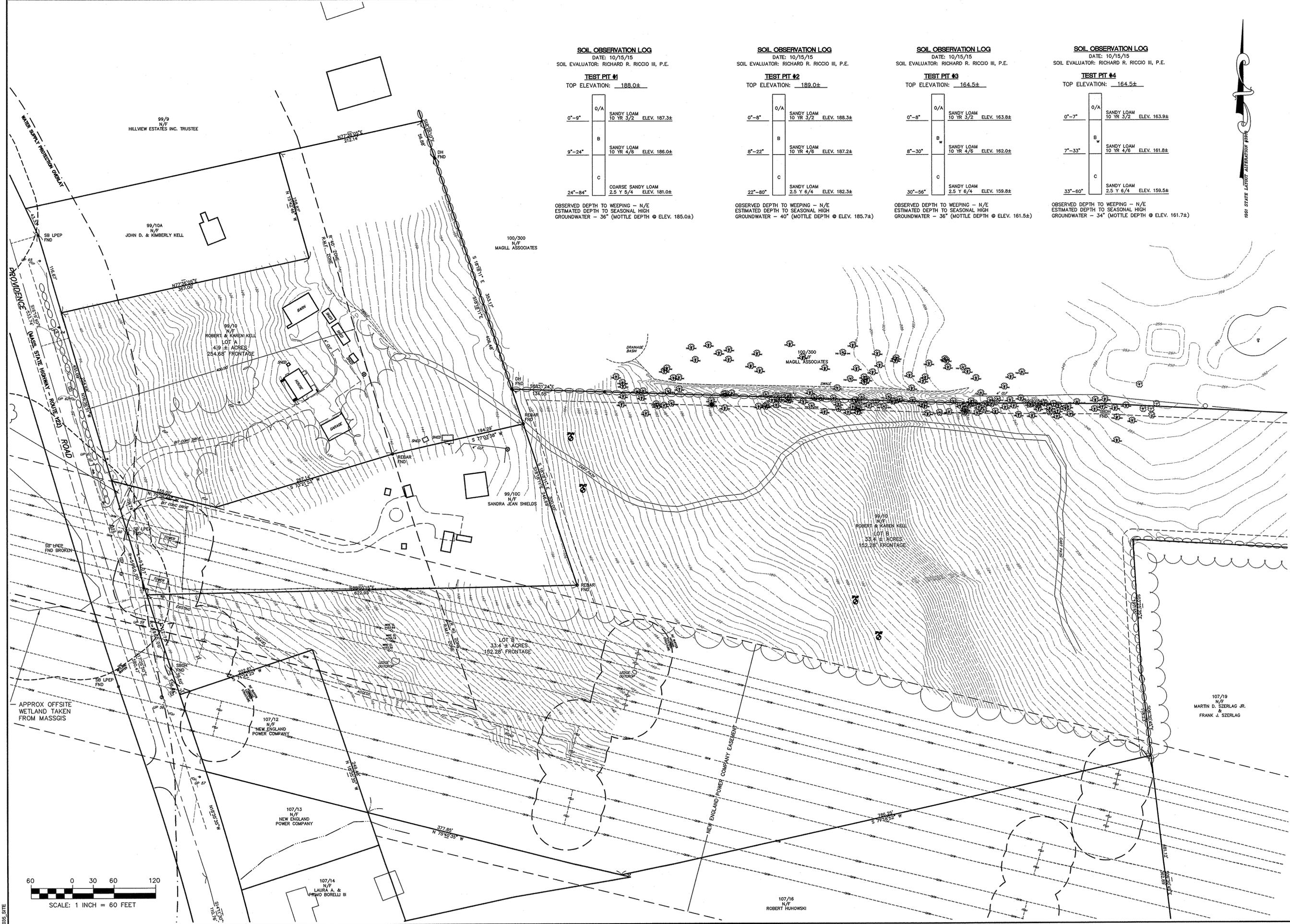
SOIL OBSERVATION LOG

DATE: 10/15/15
SOIL EVALUATOR: RICHARD R. RICCIO III, P.E.

TEST PIT #4
TOP ELEVATION: 164.5±

0"-7"	O/A	SANDY LOAM 10 YR 3/2	ELEV. 163.9±
7"-33"	B	SANDY LOAM 10 YR 4/6	ELEV. 161.8±
33"-60"	C	SANDY LOAM 2.5 Y 6/4	ELEV. 159.5±

OBSERVED DEPTH TO WEEPING - N/E
ESTIMATED DEPTH TO SEASONAL HIGH
GROUNDWATER - 34" (MOTTLE DEPTH @ ELEV. 161.7±)



Revisions

No.	Description	Date	App'd.
3	REVISED FOR NEW ACCESS ROAD	7/22/16	RRR
2	MINOR REVISIONS PER CONSULTANT REVIEW	10/22/15	RRR
1	REV PER PB COMMENT LETTERS	10/15/15	RRR

Date: 8/12/15

Scale: 1"=60'

Drawn By	Designed By	Checked By
RMS	RRR	RRR

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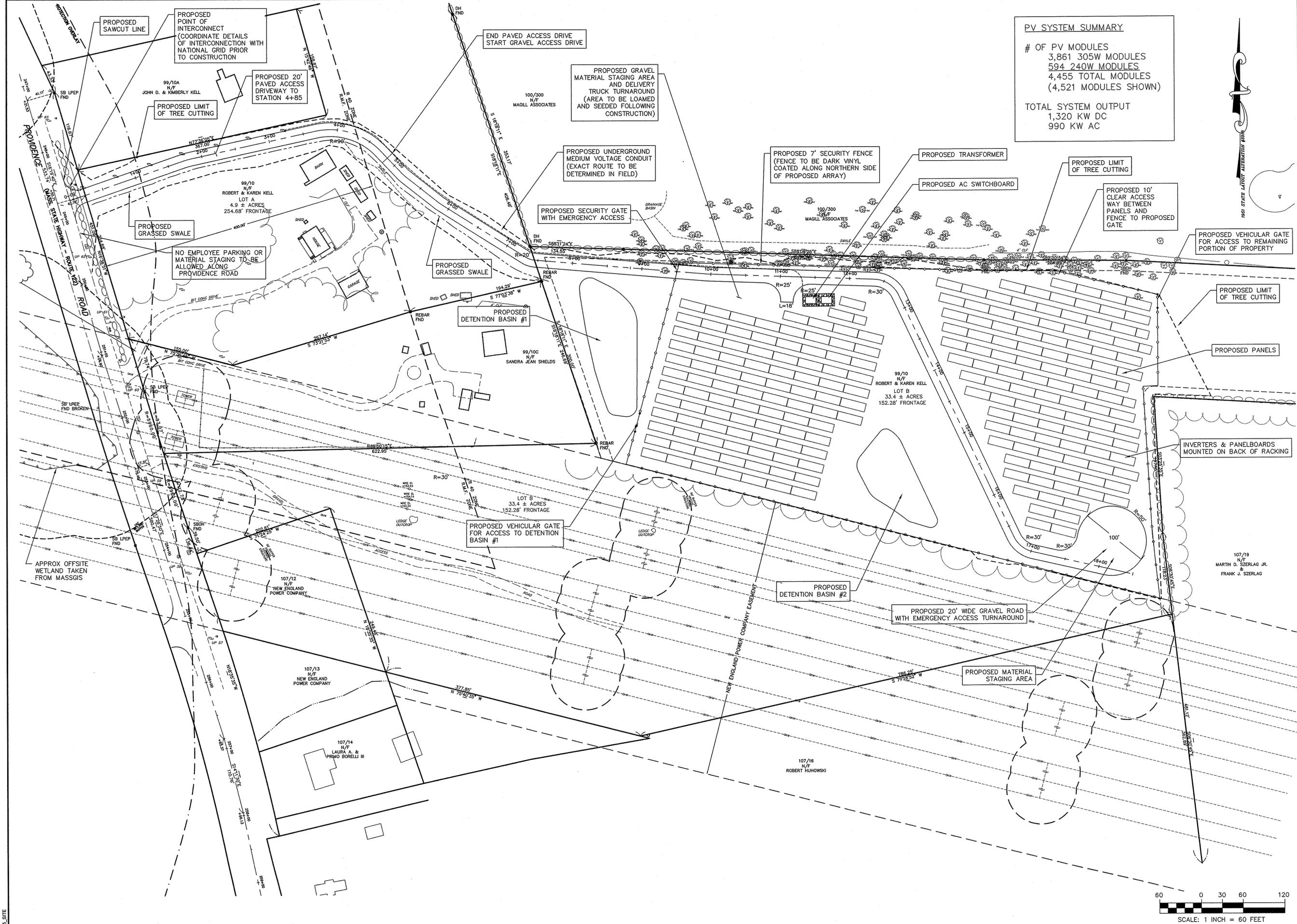
PROPOSED SITE DEVELOPMENT
CEC SOLAR #1056 LLC

207 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS

Drawing Title: **EXISTING CONDITIONS**

Project No. 2035 | Sheet 3 OF 13

EC-1



PV SYSTEM SUMMARY

OF PV MODULES
 3,861 305W MODULES
 594 240W MODULES
 4,455 TOTAL MODULES
 (4,521 MODULES SHOWN)

TOTAL SYSTEM OUTPUT
 1,320 KW DC
 990 KW AC

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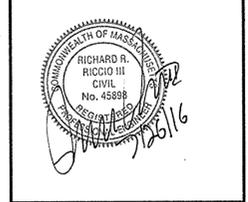
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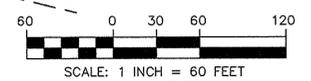
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 CEC SOLAR #1056 LLC

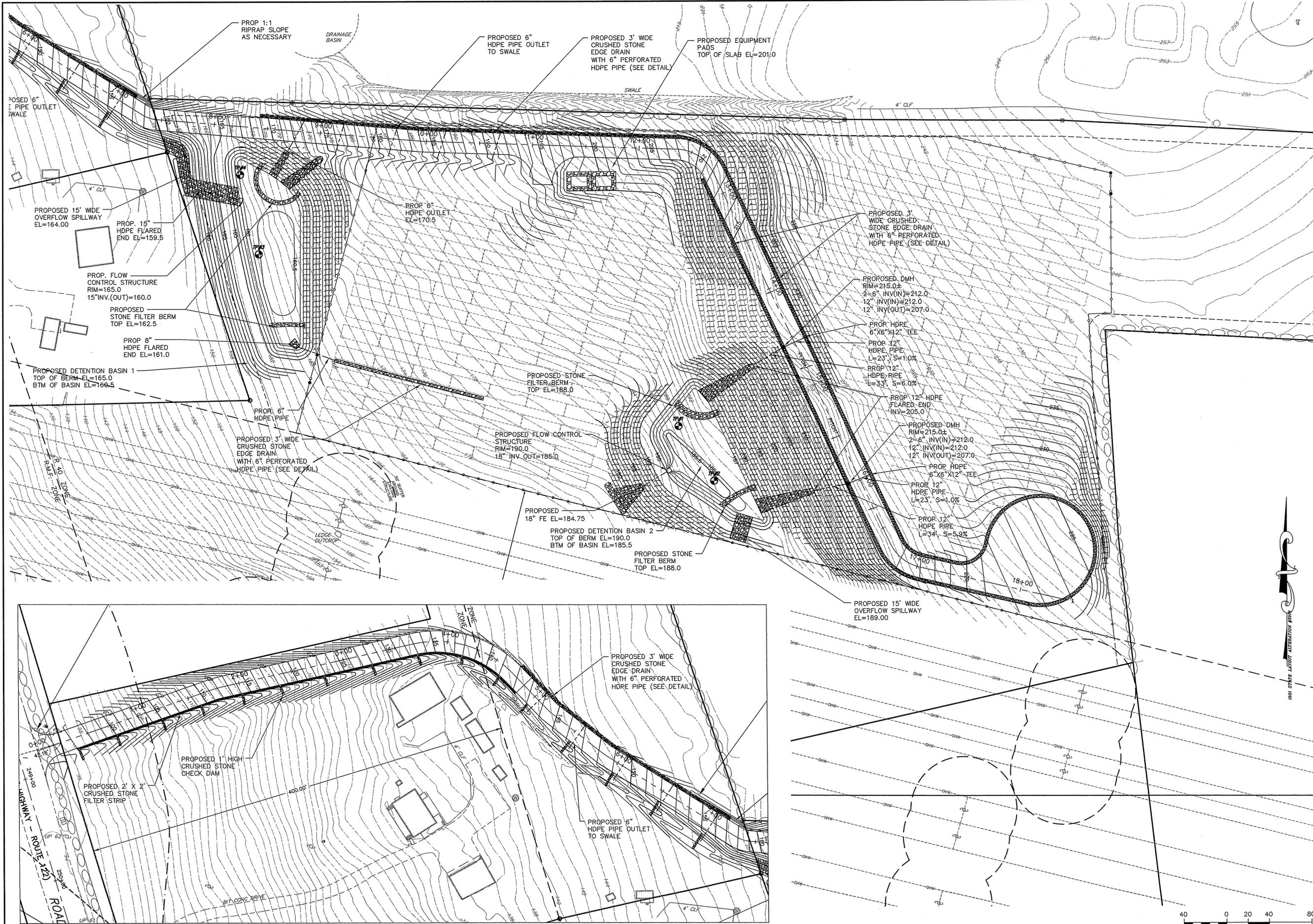
207 PROVIDENCE ROAD
 GRAFTON, MASSACHUSETTS

Drawing Title: **SITE LAYOUT**

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SL-1





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Designed By: RRR
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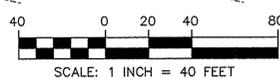
PROPOSED SITE DEVELOPMENT
CEC SOLAR #1056 LLC

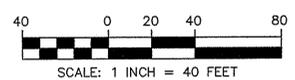
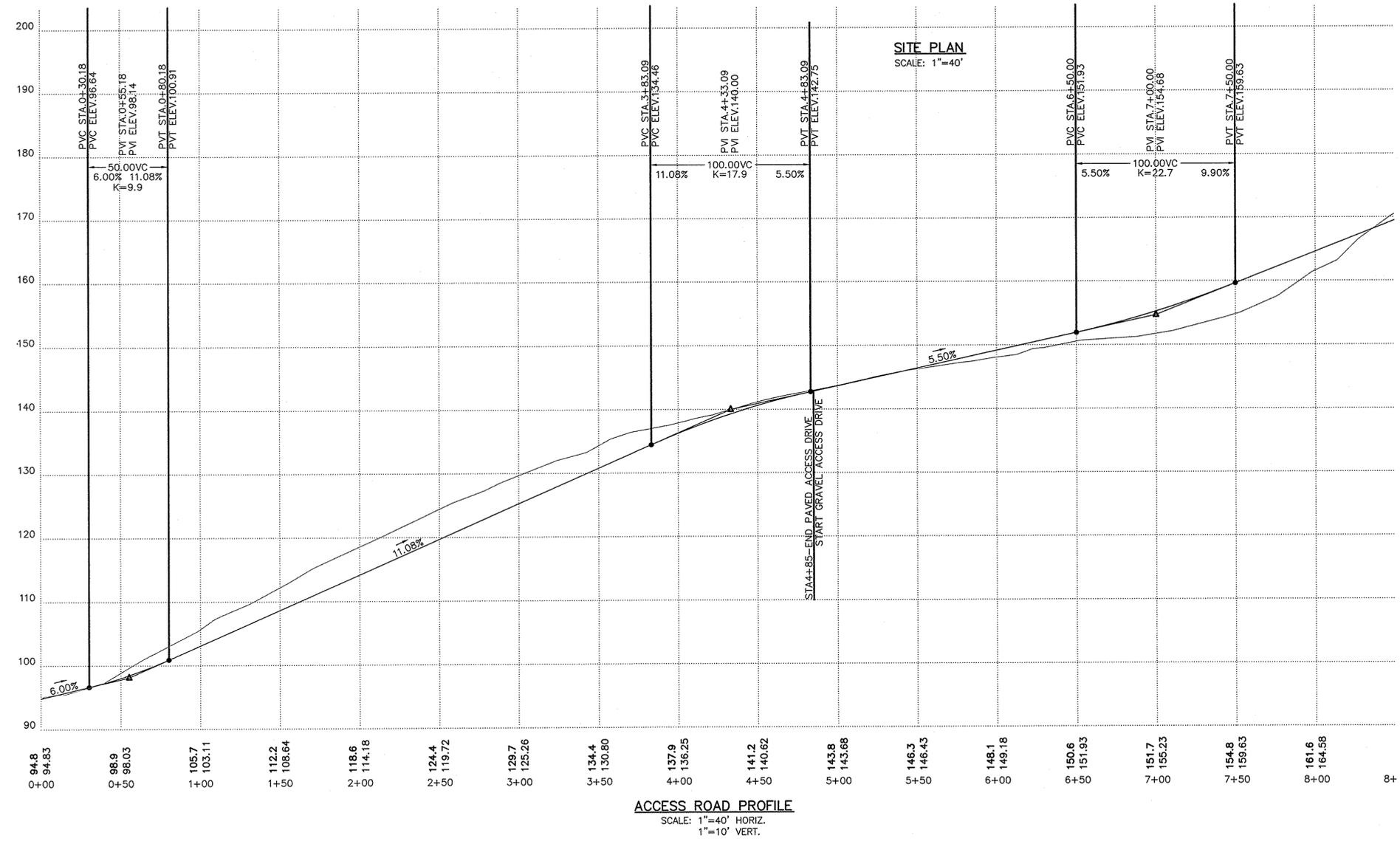
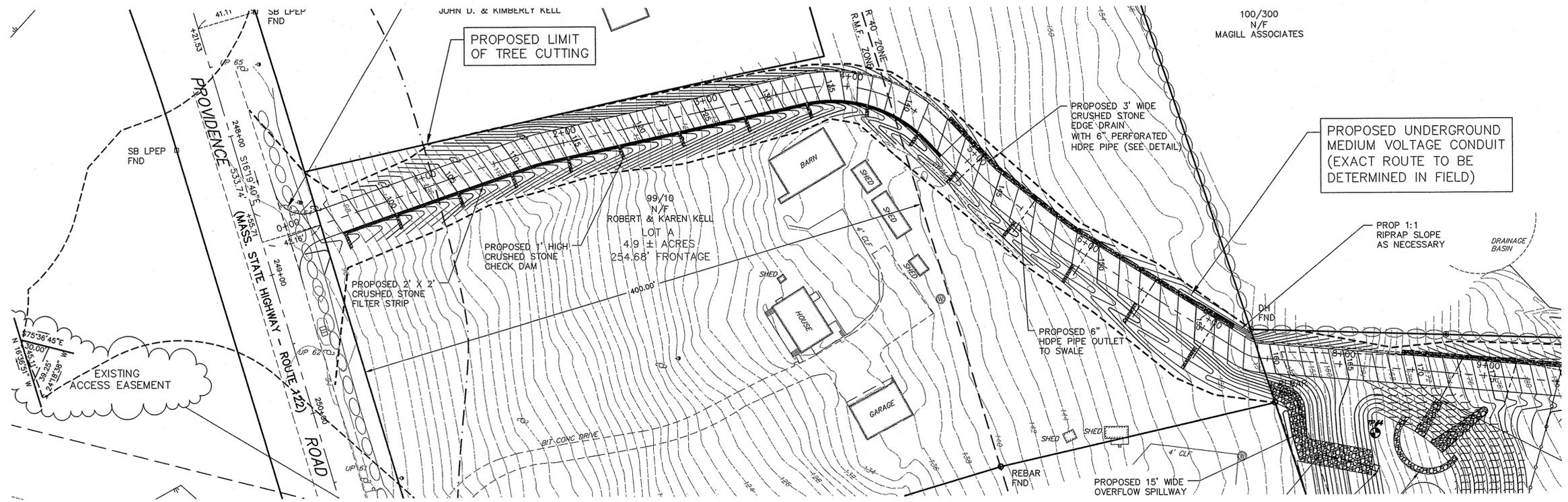
207 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS

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

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SGD-1





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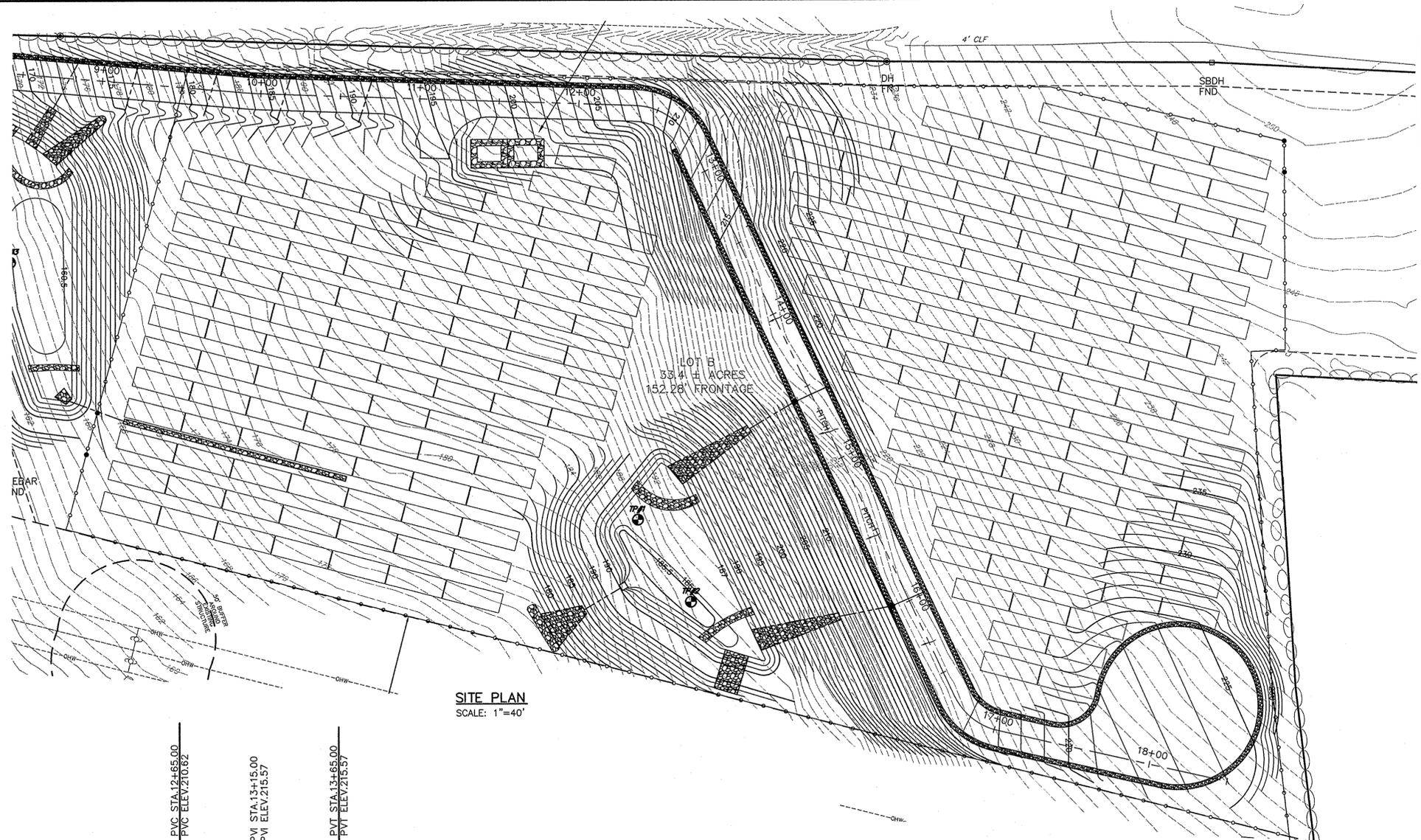


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GRAFTON, MASSACHUSETTS

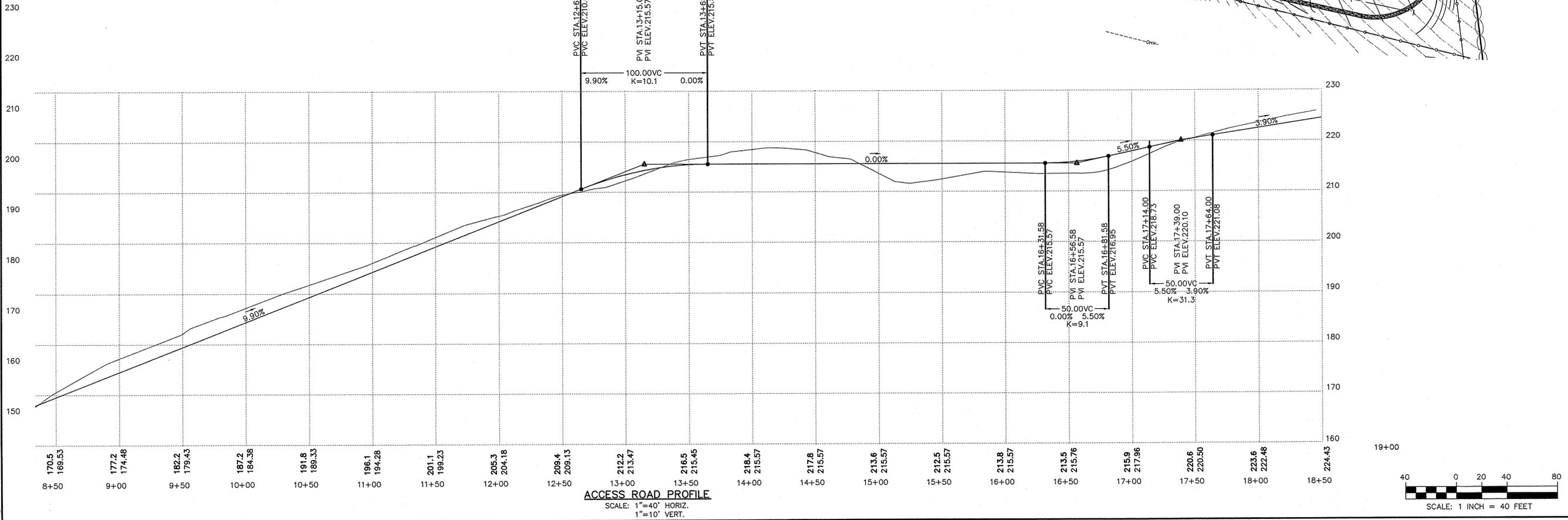
Drawing Title: ACCESS ROAD PLAN & PROFILE

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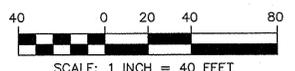
PP-1



SITE PLAN
SCALE: 1"=40'



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



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3	REVISED FOR NEW ACCESS ROAD	7/22/16	RRR
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Drawn By: RMS
Designed By: RRR
Checked By: RRR

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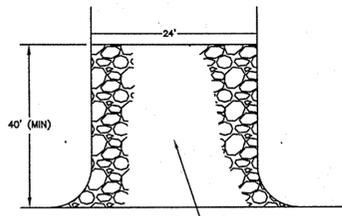


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207 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS

Drawing Title:
ACCESS ROAD PLAN & PROFILE

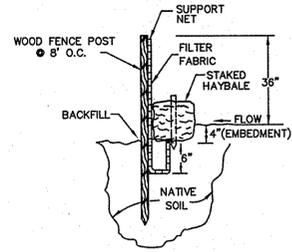
Project No. 2035
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PP-2



TEMPORARY CONSTRUCTION PAD
NOT TO SCALE

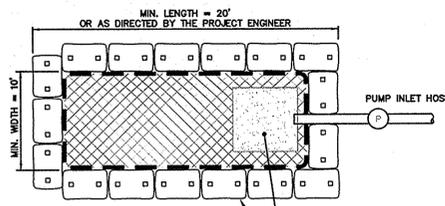
NOTE: TEMPORARY CONSTRUCTION PADS TO BE PLACED AT ALL CONSTRUCTION ENTRANCES TO MINIMIZE TRACKING ONTO THE ROADWAY SURFACE.



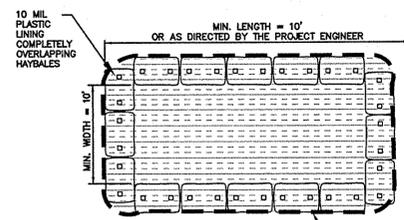
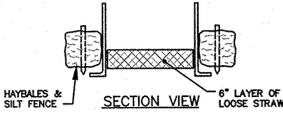
TYPICAL HAY BALE / SILT FENCE DETAIL
NOT TO SCALE

DEWATERING SPECIFICATIONS

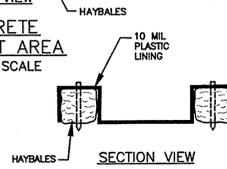
1. DEWATERING BASINS SHALL BE CONSTRUCTED BEFORE ANY DEWATERING OPERATION COMMENCE. DISCHARGE FROM THE DEWATERING BASINS SHALL BE DIRECTED TO THE NEAREST WETLAND DISCHARGE AREA.
2. HAY BALES/SILT DEWATERING BASINS SHALL BE CONSTRUCTED BEFORE DEWATERING BEGINS.
3. ALL SEDIMENT SHALL BE REMOVED AND FINISHED GRADES RESTORED UPON COMPLETION OF DEWATERING OPERATIONS.
4. THE LOCATION OF ANY DEWATERING BASIN SHALL BE REVIEWED WITH THE PROJECT ENGINEER AND CONSERVATION COMMISSION AGENT PRIOR TO THEIR IMPLEMENTATION.



DEWATERING BASIN
NOT TO SCALE

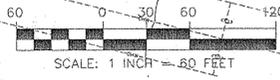
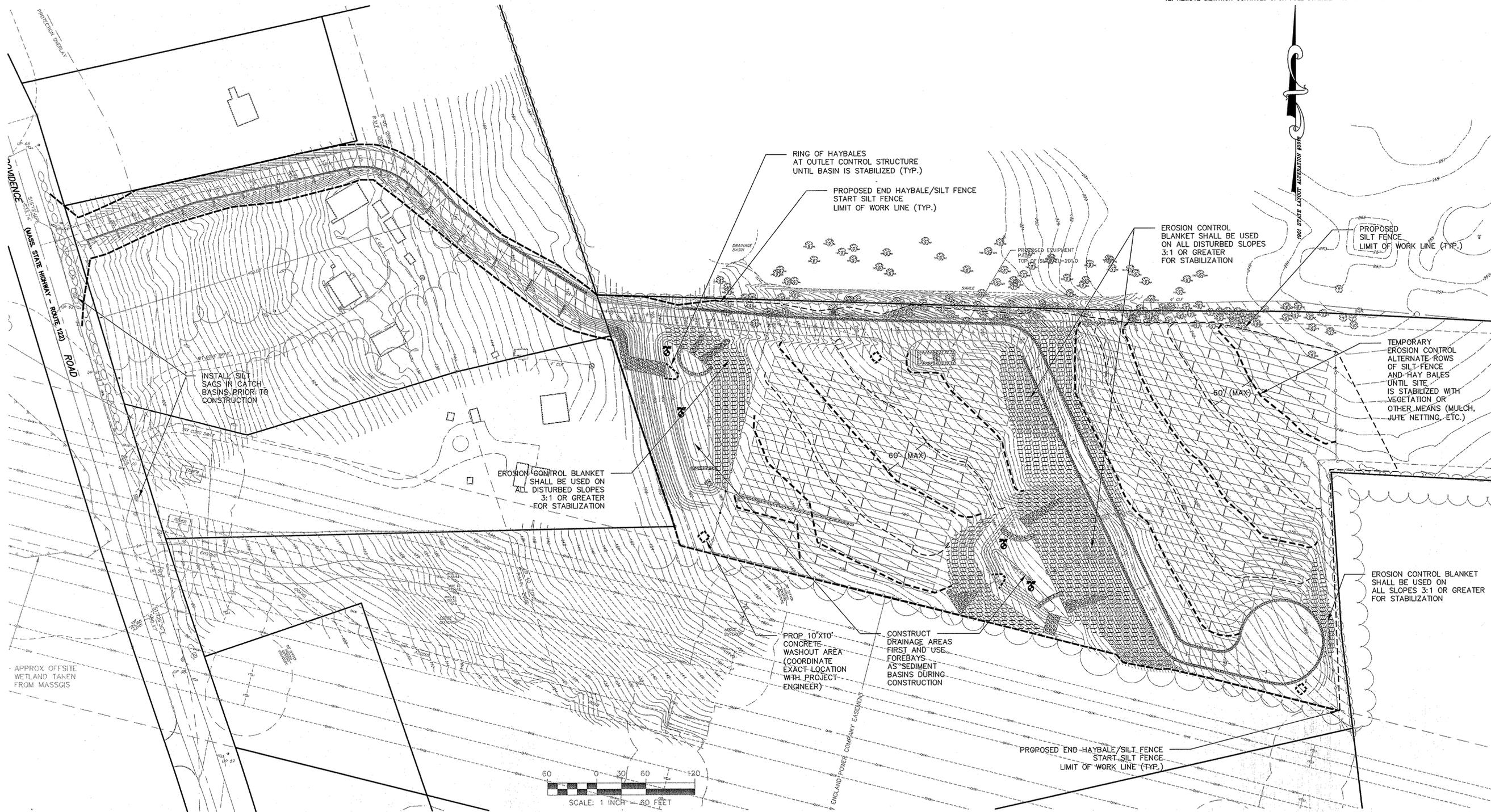


CONCRETE WASHOUT AREA
NOT TO SCALE



PHASING NOTES

1. INSTALL PROPOSED SILTATION CONTROL MEASURES AS SHOWN ON THESE PLANS. (REFER TO EROSION AND SEDIMENTATION CONTROL PROGRAM ON SHEET N-1 FOR ADDITIONAL INFORMATION ON SILTATION CONTROL PRACTICES TO BE USED THROUGHOUT THE SITE)
2. CONSTRUCT CRUSHED STONE TRACKING PADS PRIOR TO ANY EARTHWORK OR TREE CLEARING BEING PERFORMED.
3. NOTIFY CONSERVATION COMMISSION AGENT FOLLOWING INSTALLATION OF SILTATION CONTROL, PRIOR TO ANY MAJOR EXCAVATION TAKING PLACE.
4. CLEAR AND GRUB SITE. TREES SHALL BE CHIPPED ON-SITE AND MULCH SHALL BE STOCKPILED FOR USE TO TEMPORARILY STABILIZE EXPOSED SURFACES.
5. CONSTRUCT TEMPORARY DIVERSION SWALES WITH HAY BALE CHECK DAMS AS NECESSARY. CONSTRUCTED PROPOSED DETENTION AREAS AND SEDIMENT FOREBAYS TO BE USED AS SEDIMENT BASINS DURING CONSTRUCTION.
6. CONSTRUCT PAVED ACCESS DRIVE AND ASSOCIATED DRAINAGE BMPs EARLY ON IN CONSTRUCTION SEQUENCE TO SERVE AS STABILIZED CONSTRUCTION ENTRANCE INTO THE SITE. PAVED PORTION OF ACCESS DRIVE SHOULD BE PAVED PRIOR TO WINTER BATCH PLANT SHUTDOWN.
7. PERFORM NECESSARY SITE GRADING, CONSTRUCT ON-SITE GRAVEL ACCESS ROADS. LOAM, COMPACT AND ROLL SITE FOR TEMPORARY STABILIZATION.
8. INSTALL SOLAR ARRAY FOUNDATIONS, CONCRETE PADS, AND SOLAR PANELS.
9. FINE GRADE, LOAM DISTURBED AREAS AS NECESSARY AND SEED SITE FOLLOWING INSTALLATION OF PANELS.
10. CONNECT DESIGNED DRAINAGE STRUCTURES AND FILL TEMPORARY SWALES AND SEDIMENT BASINS WHERE APPLICABLE.
11. REMOVE ANY SEDIMENT FROM DETENTION AREAS USED AS TEMPORARY SEDIMENT BASINS PRIOR TO FINAL LOAMING AND SEEDING OF THESE AREAS.
12. REMOVE SILTATION CONTROLS UPON FULL STABILIZATION OF FINISHED SURFACES.



SCALE: 1 INCH = 60 FEET

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No.	Description	Date	Appvd.
5	REVISED FOR NEW ACCESS ROAD	7/22/16	RRR
4	REVISED PER CON COM MEETING COMMENTS	12/9/15	RRR
3	REVISED PER CON COM AGENT COMMENTS	12/11/15	RRR
2	MINOR REVISIONS PER CONSULTANT REVIEW	10/22/15	RRR
1	REV PER P/B COMMENT LETTERS	10/15/15	RRR

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RMS	RRR	RRR

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PROPOSED SITE DEVELOPMENT
CEC SOLAR #1056 LLC

207 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS

Drawing Title: **EROSION CONTROL**

Project No. 2035 | Sheet 8 OF 13

EROS-1

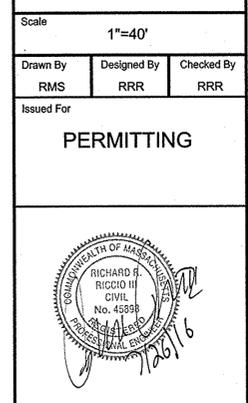
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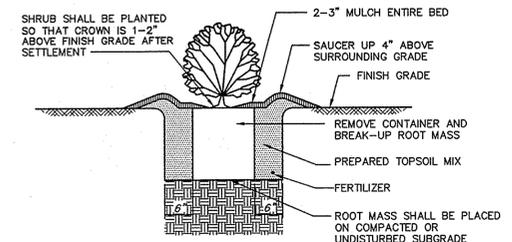
Drawing Title: **LANDSCAPE PLAN**

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LAND-1

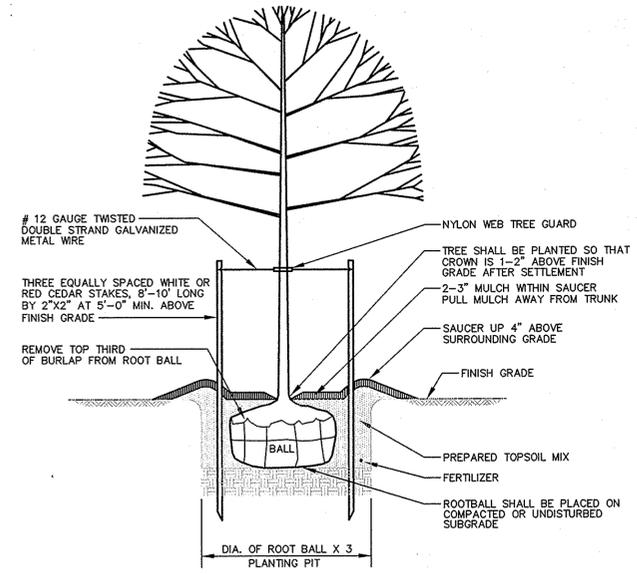
PLANTING NOTES

1. PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED, INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND CLEAN-UP.
2. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES.
3. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISIONS SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.
4. INSOFAR AS IT IS PRACTICABLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD WILL BE REJECTED.
5. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI Z60 (REV. 1980) "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
6. ALL PLANTS SHALL BE PLANTED IN TRANSPORTED TOP SOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACK FILLING PROGRESSES. PLANTING MIX TO BE AS SHOWN ON PLANTING DETAILS. RAISE AND REPLANT ANY PLANT WHICH SETTLES MORE THAN 2" AFTER PLANTING AND WATERING.
7. FERTILIZER FOR WOODY PLANTS SHALL BE SLOW RELEASE, PELLETIZED AND SUITABLE FOR RELEASE UNDER SATURATED SOIL CONDITIONS. FERTILIZER SHALL BE OSMOCOTE 18-5-11, 12-14 MONTH RELEASE OR EQUAL.
8. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.
9. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION. ALL PLANT MATERIAL SHALL BE SPRAYED WITH "MILT-PRUF" OR EQUAL AS PER MANUFACTURER'S INSTRUCTIONS.
10. NO PLANT, EXCEPT GROUND COVERS, SHALL BE PLANTED LESS THAN TWO FEET FROM EXISTING STRUCTURES AND SIDEWALKS.
11. SET ALL PLANTS PLUMB AND STRAIGHT. LOCATE PLANT IN THE CENTER OF THE PIT.
12. ALL DEADWOOD, SUCKERS, AND BROKEN OR BADLY BRUISED BRANCHES SHALL BE REMOVED. CONTAINER GROWN PLANTS SHALL NOT BE THINNED.
13. TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING. TREES SHALL BE STAKED AS SHOWN ON THE DETAIL. THE LANDSCAPE CONTRACTOR SHALL REMOVE STAKING AND GUYING AT THE END OF THE ONE YEAR MAINTENANCE AND GUARANTEE PERIOD.
14. NEW PLANTING AREAS SHALL BE ADEQUATELY IRRIGATED OR WATERED TO ESTABLISH THE PROPOSED PLANTS AND SEED AREAS.
15. PRIOR TO THE ACCEPTANCE BY THE OWNER, THE PROPOSED LANDSCAPE AS SHOWN ON THE APPROVED LANDSCAPE PLAN MUST BE INSTALLED, INSPECTED AND APPROVED BY THE OWNERS REPRESENTATIVE. ANY PLANTING INSTALLED IN CONFLICT WITH THESE REQUIREMENTS MUST RECEIVE THE WRITTEN APPROVAL OF THE PRIOR TO PLANTING. FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL REQUIRE THE REMOVAL OF THE PLANTING IN QUESTION. THIS REQUIREMENT DOES NOT APPLY TO SEEDING OR SODDING OR PLANTINGS SPECIFICALLY FOR SOIL STABILIZATION.
16. THE CONTRACTOR SHALL SUBMIT A MATERIALS LIST INCLUDING THE SPECIES, SIZE, AND NUMBER OF PLANTS TO THE OWNER FOR APPROVAL PRIOR TO ORDERING OF MATERIALS. EXACT LOCATIONS OF ALL PLANTINGS SHALL BE COORDINATED WITH THE OWNER PRIOR TO INSTALLATION.



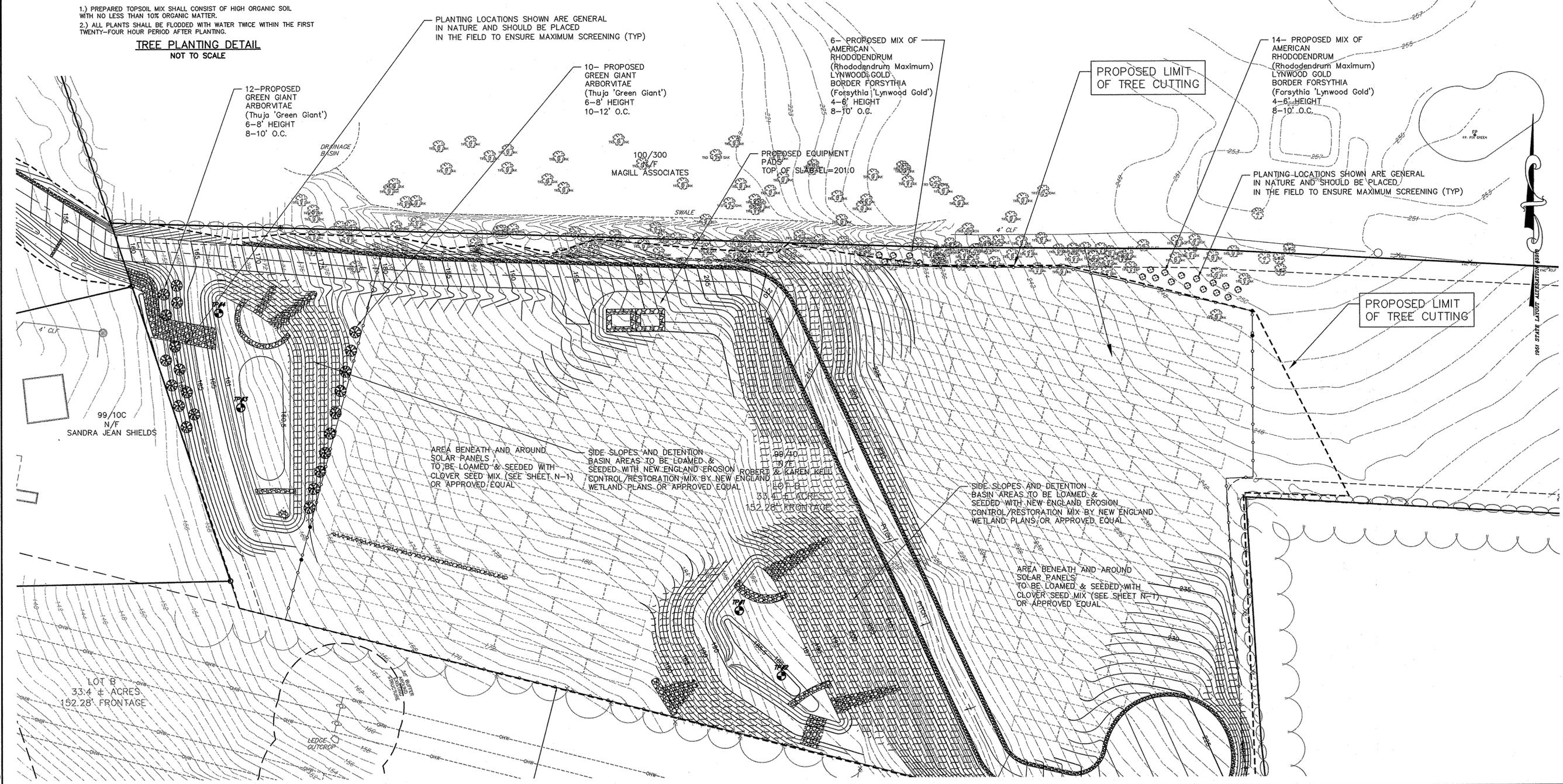
- 1.) PREPARED TOPSOIL MIX SHALL CONSIST OF HIGH ORGANIC SOIL WITH NO LESS THAN 10% ORGANIC MATTER.
- 2.) ALL PLANTS SHALL BE FLOODED WITH WATER TWICE WITHIN THE FIRST TWENTY-FOUR HOUR PERIOD AFTER PLANTING.

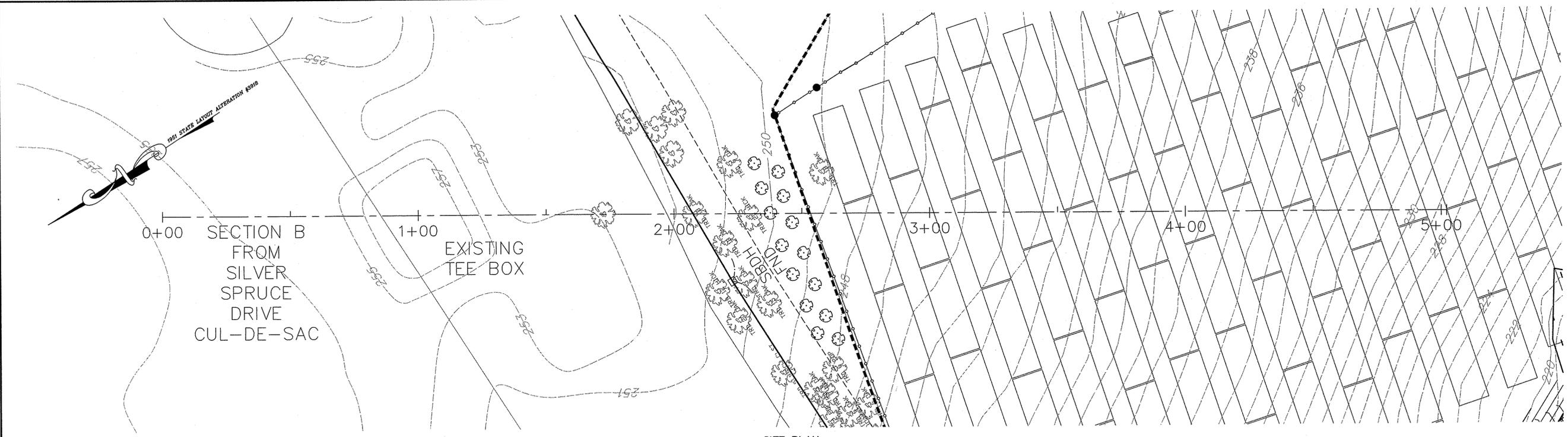
SHRUB PLANTING DETAIL
NOT TO SCALE



- 1.) PREPARED TOPSOIL MIX SHALL CONSIST OF HIGH ORGANIC SOIL WITH NO LESS THAN 10% ORGANIC MATTER.
- 2.) ALL PLANTS SHALL BE FLOODED WITH WATER TWICE WITHIN THE FIRST TWENTY-FOUR HOUR PERIOD AFTER PLANTING.

TREE PLANTING DETAIL
NOT TO SCALE





SITE PLAN
SCALE: 1"=20'

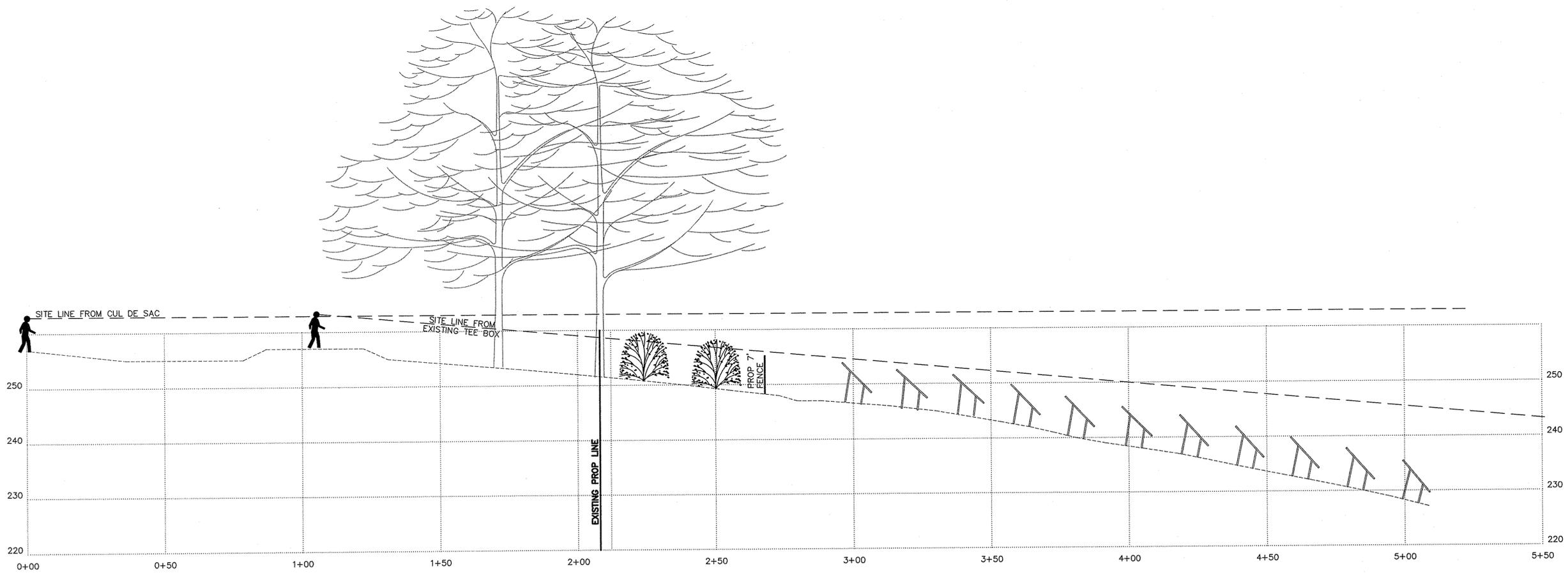
Revisions			
No.	Description	Date	Appvd.
3	REVISED FOR NEW ACCESS ROAD	7/22/16	RRR
2	MINOR REVISIONS PER CONSULTANT REVIEW	10/22/15	RRR
1	REV PER PB COMMENT LETTERS	10/5/15	RRR

Date: 8/12/15

Scale: AS NOTED

Drawn By	Designed By	Checked By
RMS	RRR	RRR

Issued For: **PERMITTING**



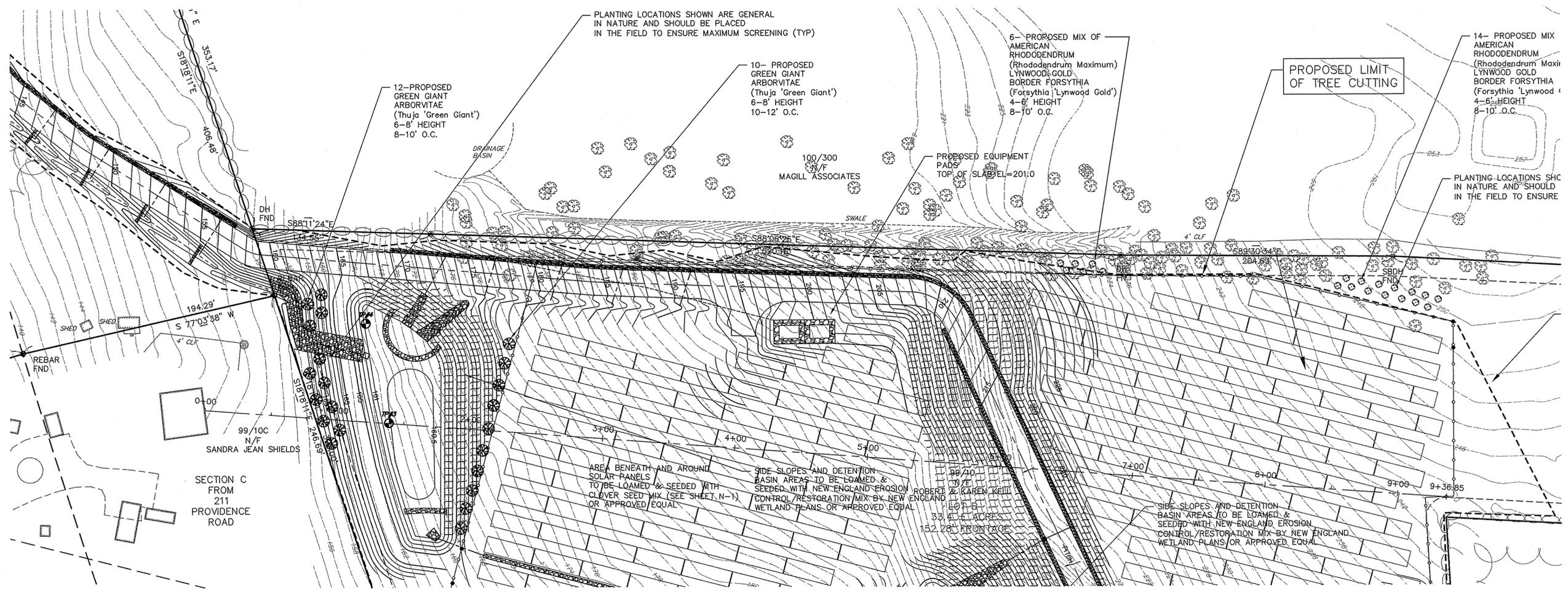
PROFILE B
SCALE: 1"=20' HORIZ.
1"=10' VERT.

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

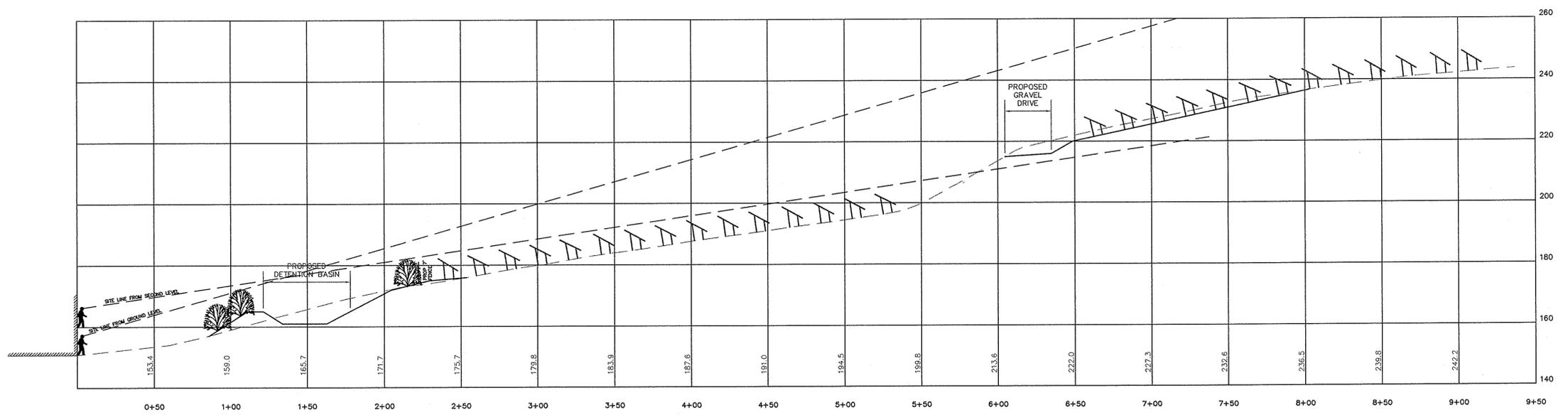
Drawing Title: **VIEW STUDY FROM SILVER SPRUCE DR**

Project No.	Sheet
2035	11 OF 13

VS-2



SITE PLAN
SCALE: 1"=40'



PROFILE C
SCALE: 1"=40' HORIZ.
1"=20' VERT.

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Revisions			
No.	Description	Date	Appvd.
3	REVISED FOR NEW ACCESS ROAD	7/22/15	RRR
2	MINOR REVISIONS PER CONSULTANT REVIEW	10/22/15	RRR
1	REV PER PB COMMENT LETTERS	10/15/15	RRR
Date		8/12/15	

Scale: AS NOTED
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 211 PROVIDENCE RD**
Project No.: 2035
Sheet: 12 OF 13

VS-3

