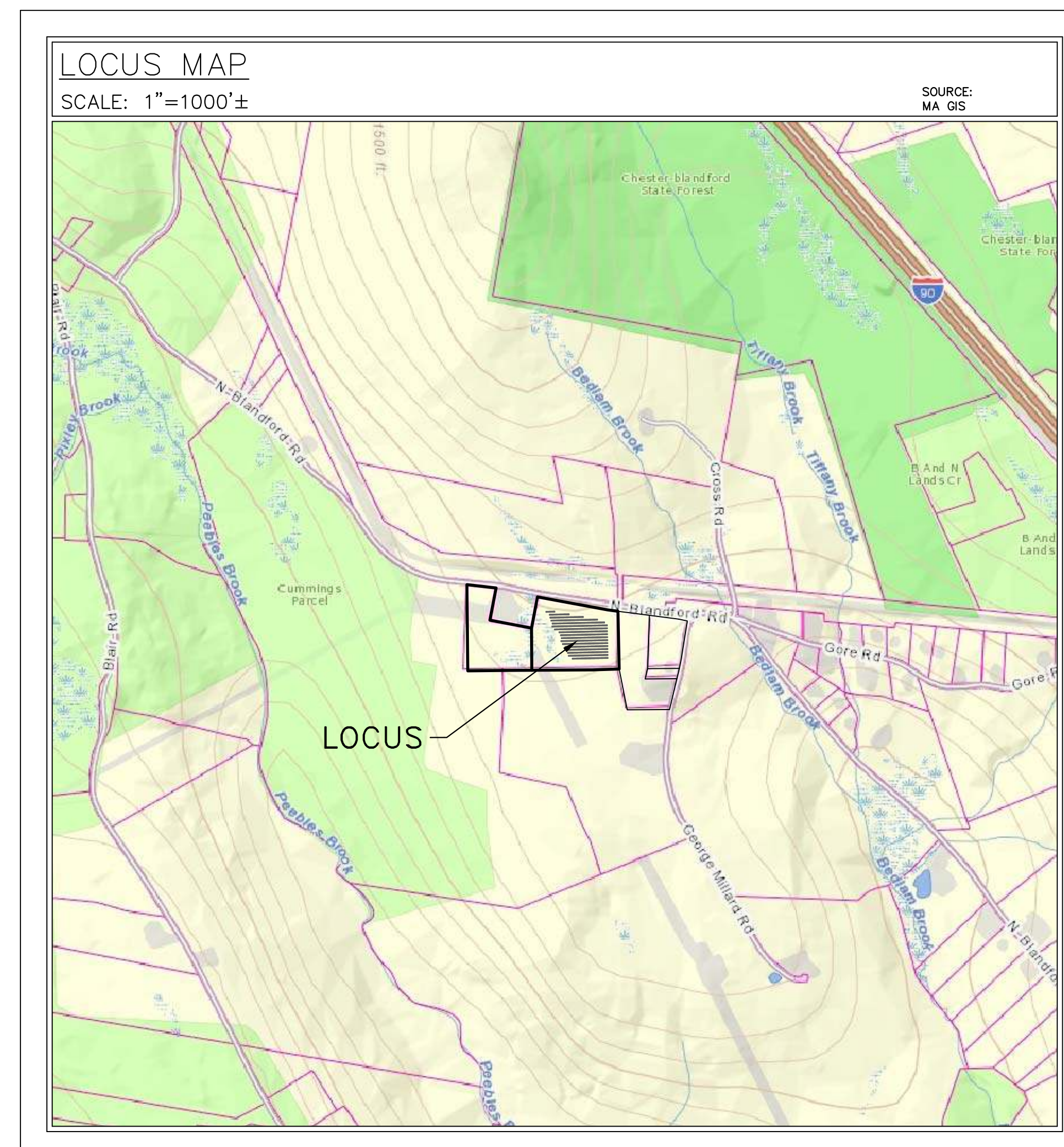


***PROPOSED SOLAR PANEL ARRAY
 PROPOSED SITE DEVELOPMENT PLAN
 IN
 BLANDFORD, MASSACHUSETTS
 OFF
 NORTH BLANDFORD ROAD
 OCTOBER 13, 2017***

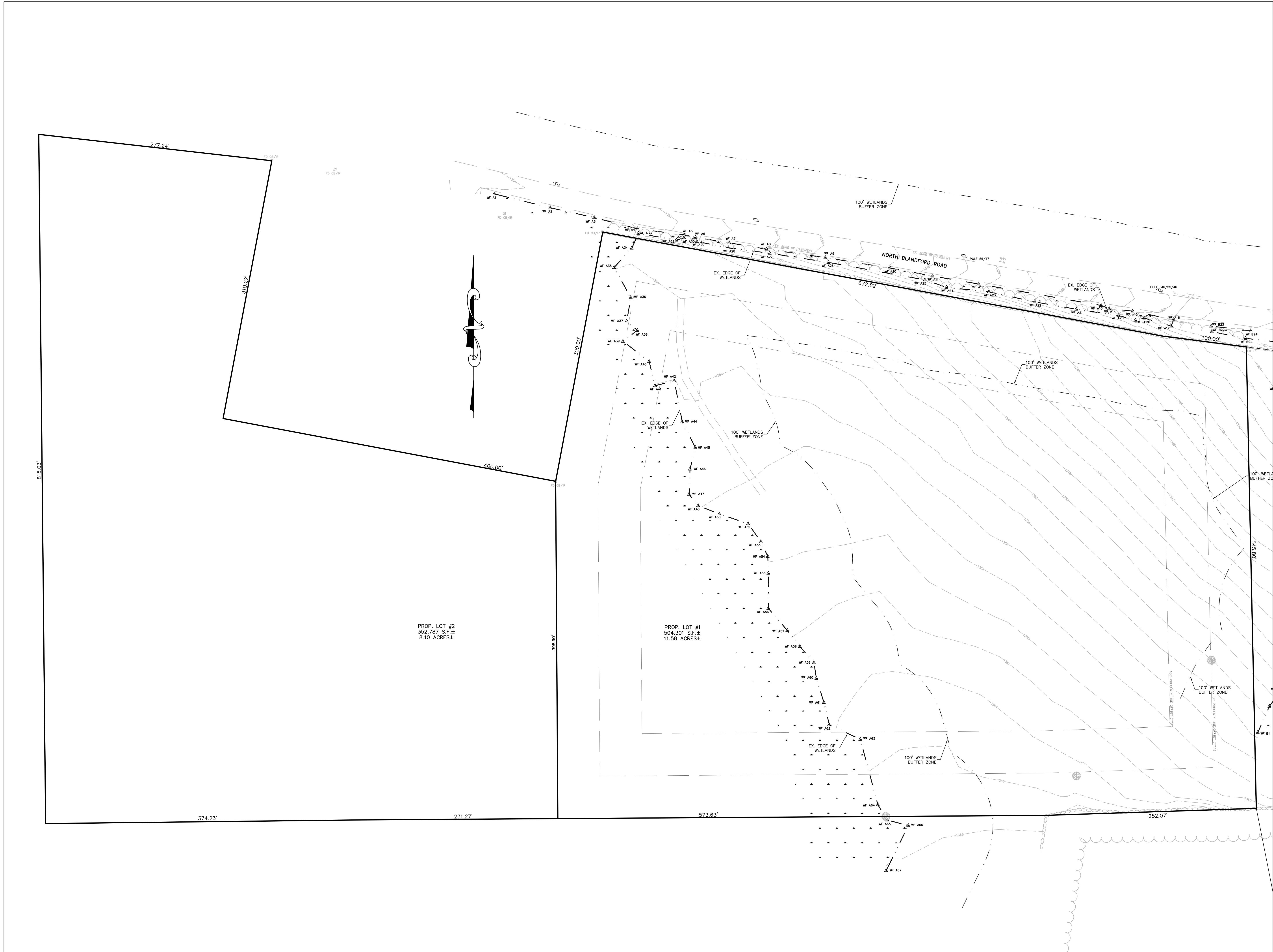


APPLICANT
 PARK AVENUE SOLAR SOLUTIONS, LLC
 TONY SAVINO
 102 GREENWICH AVENUE, 3RD FLOOR
 GREENWICH, CT 06830

ENGINEER & SURVEYOR
 WHITMAN & BINGHAM ASSOCIATES, LLC
 510 MECHANIC STREET
 LEOMINSTER, MA 01453
 TEL. (978) 537-5296
 FAX (978) 537-1423

NO.	DATE	DESCRIPTION

PLAN INDEX	
EXISTING CONDITIONS PLAN	S1
PROPOSED SITE & GRADING PLAN	S2
EROSION CONTROL NOTES & DETAILS	S3
CONSTRUCTION DETAILS	S4
CONSTRUCTION NOTES	S5

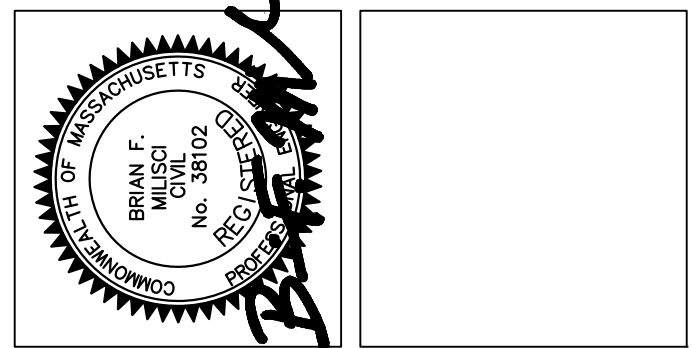


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SCALE: 1"=50'	DATE: OCTOBER 13, 2017
JOB NUMBER: 14164	SHEET NUMBER: S1 OF S5
PLAN NUMBER: 4-L-998	COMPS: 10006
FIELD BOOK REF(S):	PLAN REF(S):

NO.	DESCRIPTION	DATE	BY

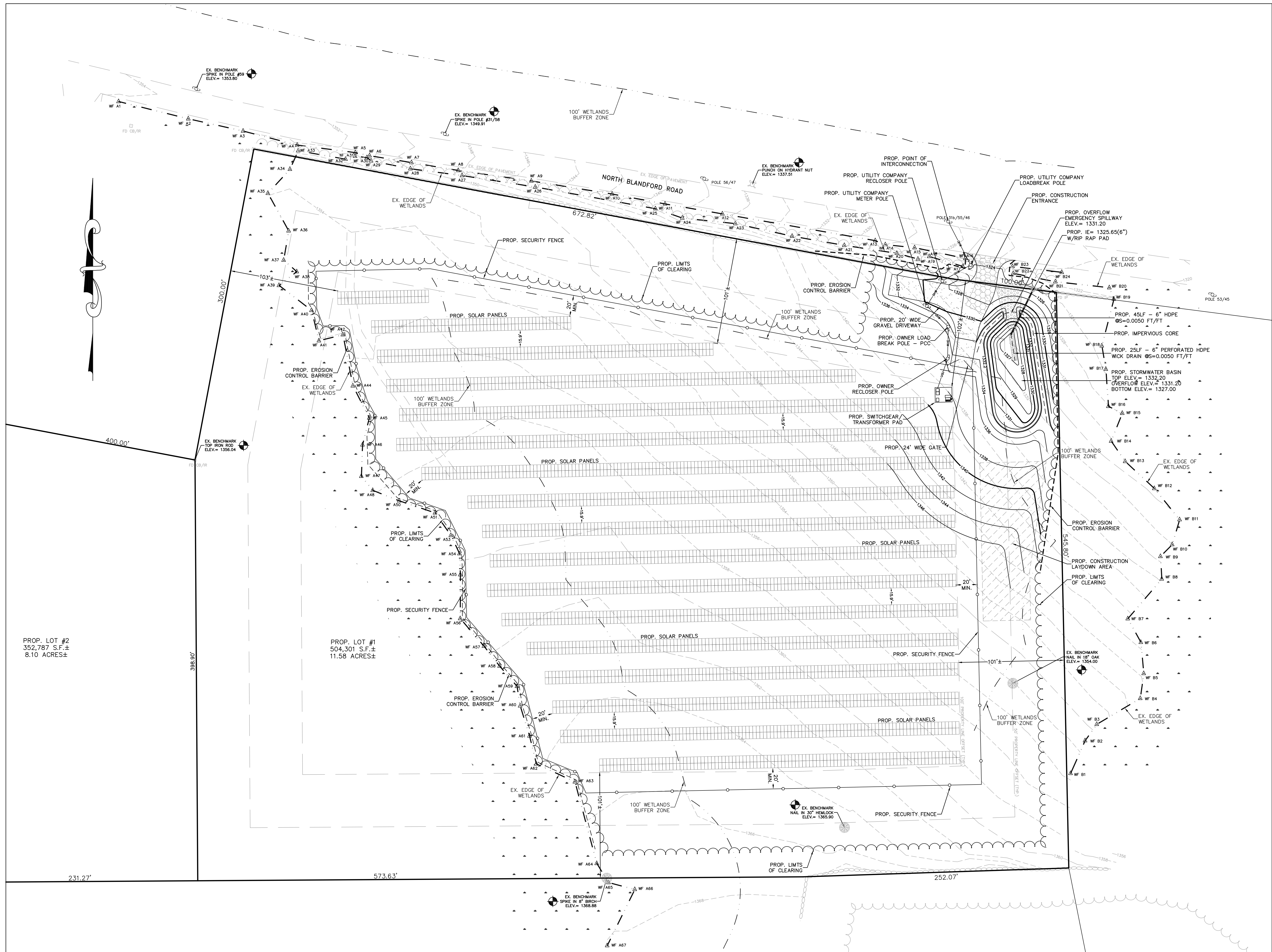
EXISTING CONDITIONS PLAN
FOR
NORTH BLANDFORD ROAD SOLAR ARRAY
IN
BLANDFORD, MASSACHUSETTS

PREPARED FOR:
SOLAR SOLUTIONS, LLC
TONY SAVINO
102 GREENWICH AVENUE, 3RD FLOOR
GREENWICH, CONNECTICUT 06830
(203) 415-5535



WHITMAN & BINGHAM
ASSOCIATES
REGISTERED ENGINEERS & LAND SURVEYORS

510 MECHANIC STREET
LEOMINSTER, MASSACHUSETTS 01460
TEL: (978) 537-5200
FAX: (978) 537-1433

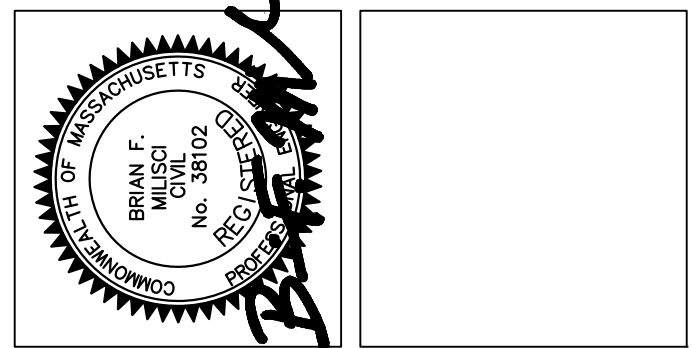


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DRAWN BY: WRF	SCALE: 1"=40'	JOB NUMBER: 14164	PLAN NUMBER: 4-L-998	FIELD BOOK REF(S):

NO.	DESCRIPTION	DATE	BY

PROPOSED SITE & GRADING PLAN
FOR
NORTH BLANDFORD ROAD SOLAR ARRAY
IN
BLANDFORD, MASSACHUSETTS

PREPARED FOR:
SOLAR SOLUTIONS, LLC
TONY SAVINO
102 GREENWICH AVENUE, 3RD FLOOR
GREENWICH, CONNECTICUT 06830
(203) 415-5535



WHITMAN & BINGHAM
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LEOMINSTER, MASSACHUSETTS 01453
TEL: 978/537-5200
FAX: 978/537-1433

GENERAL EROSION CONTROL NOTES:

1. THE SITE PLAN DEPICTS THE REQUIRED SOIL EROSION CONTROL MEASURES. THE SITE SUBCONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION SITE IN SUCH A MANNER THAT:
 - A. SOIL EROSION IS KEPT TO A MINIMUM.
 - B. NO SEDIMENT LEAVES THE CONSTRUCTION SITE PROPERTY.
 - C. ALL POSSIBLE MEASURES ARE EMPLOYED TO PREVENT SEDIMENT FROM ENTERING DRAINAGE COURSES EVEN BEYOND THE DETAILS SHOWN ON THIS PLAN IF NECESSARY.
2. THE SITE SUBCONTRACTOR IS RESPONSIBLE FOR ALL SILTATION RESULTING FROM EROSION OR SEDIMENTATION FROM THE SITE TO SURROUNDING PROPERTIES OR WATER BODIES DURING CONSTRUCTION AS A RESULT OF THIS PROJECT.
3. LOAM AND SEED ALL DISTURBED AREAS AT THE EARLIEST TIME POSSIBLE. USE WINTER SEED RATES AND SPECIFICATIONS IF APPROPRIATE.
4. INSPECT SOIL EROSION MEASURES WEEKLY AND AFTER SIGNIFICANT STORM EVENTS. MAKE ALL NECESSARY REPAIRS TO FACILITIES AS SOON AS POSSIBLE BUT NO LONGER THAN TWO DAYS. CLEAN AND RESET SILT FENCES WHICH ACCUMULATE SEDIMENT AND OTHER DEBRIS.
5. PROTECT AND STABILIZE ALL AREAS NOT SCHEDULED FOR EROSION, PREVENTION OR STABILIZATION, BUT THAT SHOW SIGNS OF EROSION. NOTIFY ENGINEER OF ANY SIGNIFICANT EROSION PROBLEM.
6. TEMPORARILY SEED, WITHIN 7 DAYS, ANY AREA WHICH WILL BE LEFT UNDISTURBED FOR MORE THAN 14 DAYS WITH TEMPORARY SEED MIX. PERMANENTLY SEED ANY AREA WHICH CAN BE LOAMED AS SOON AS POSSIBLE WITH PERMANENT SEED MIX LISTED BELOW. DO NOT USE PERMANENT SEED MIX AFTER SEPTEMBER 30.
7. FOLLOW EROSION CONTROL BARRIER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS FOR INSTALLATION OF EROSION CONTROL BARRIER. SECURE ENTIRE BOTTOM OF SILT FENCE BY BURYING BOTTOM OF FENCE IN A TRENCH, REFER TO SILT FENCE DETAILS.

CONSTRUCTION SEQUENCE AND EROSION CONTROL:

1. INSTALL CONSTRUCTION ENTRANCE (SEE DETAIL).
2. CONSTRUCT EROSION CONTROL BARRIER(S) AS DEPICTED ON THE DESIGN PLANS.
3. CLEAR AND GRUB TO LIMITS OF CUT AND FILL.
4. CONSTRUCT AND STABILIZE PERIMETER SLOPES AND TREATMENT SWALES.
5. CONSTRUCT TEMPORARY SEDIMENT AND EROSION CONTROL FACILITIES. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS. WHEN POSSIBLE, THE STORMWATER BASIN(S) SHALL BE USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION. ADDITIONAL TEMPORARY SEDIMENT BASINS SHOULD BE CONSTRUCTED, BEYOND THOSE SHOWN ON THIS PLAN, AS SITE CONDITIONS WARRANT ADDITIONAL PROTECTION FROM SEDIMENT TRANSPORT.
6. THE SITE SUBCONTRACTOR SHALL MAINTAIN SEDIMENTATION AND EROSION CONTROL DEVICES THROUGHOUT THE PROJECT SITE FOR THE DURATION OF THE CONSTRUCTION.
7. ALL SLOPES STEEPER THAN 3:1 SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS OF THEIR COMPLETION.
8. ALL SWALES AND DITCHES WITH SLOPES EXCEEDING 5% SHALL BE TREATED WITH JUTE MATTING.
9. CONSTRUCT SLOPED AREAS & SIDE SLOPES. BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION.
10. CONSTRUCT TEMPORARY DIVERSION CHANNELS AS REQUIRED.
11. CONSTRUCT TEMPORARY BERMS, DRAINAGE DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
12. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DAILY.
13. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
14. REMOVE TEMPORARY CONTROL MEASURES ONCE EXPOSED AREAS ARE STABILIZED AND PERMANENT EROSION AND SEDIMENT FACILITIES ARE INSTALLED AND ACCOMPLISH FINAL CLEAN UP.
 - A. BASE COURSE GRAVELS ARE INSTALLED IN AREAS TO BE PAVED.
 - B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.
 - C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN ESTABLISHED.
 - D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
15. PRIOR TO CONVERTING SEDIMENT BASINS TO STORMWATER BASINS, ALL DISTURBED AREAS SHOULD BE STABILIZED AND ACCUMULATED SEDIMENT REMOVED FROM THE BASINS. NO SEDIMENT IS ALLOWED TO ERODE FROM THE SITE OR BE FLUSHED INTO A STREAM OR DRAINAGEWAY. THE SLOPES OF THE BASINS SHOULD THEN BE LOAMED AND SEEDED IN ACCORDANCE WITH PERMANENT SEEDING SCHEDULE AND REQUIRED RIPRAP AREAS SHOULD BE INSTALLED.
16. ALL DISTURBED AREAS SHALL BE STABILIZED WITH GRASS OR MULCH.
17. THE LENGTH OF TIME AN AREA CAN BE DISTURBED AND UNSTABILIZED IS 45 DAYS.
18. ALL DITCHES AND SWALES TO BE STABILIZED PRIOR TO DIRECTING RUN-OFF TO THEM.
19. THE SEQUENCE OF CONSTRUCTION MAY OVERLAP AND VARY AS NECESSARY.

WINTER CONSTRUCTION NOTES:

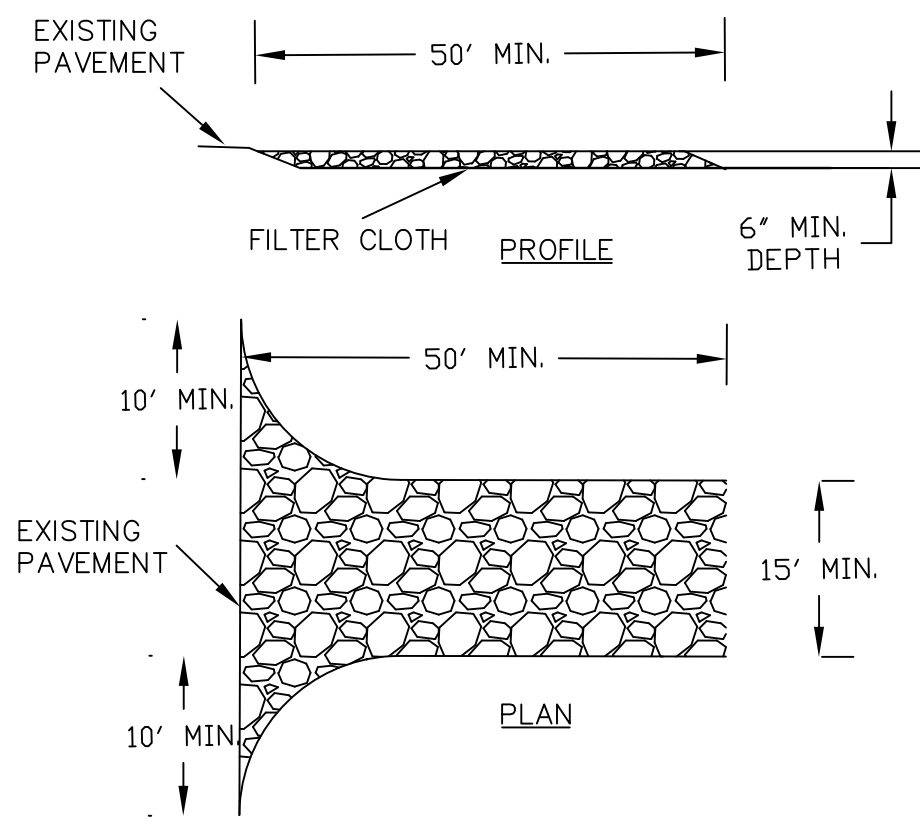
1. ALL PROPOSED POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 15, OR WHICH ARE DISTURBED AFTER NOVEMBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 4:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING. ELSEWHERE, THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 15, OR WHICH ARE DISTURBED AFTER NOVEMBER 15, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

GENERAL SEEDING NOTES*:

1. USE PERMANENT SEED MIXES AND RATES BETWEEN 5/15 AND 9/30
2. USE TEMPORARY SEED MIXES FOR PERIODS LESS THAN 12 MONTHS. IF USING TEMPORARY SEED MIXES AND RATES BETWEEN 10/01 AND 5/14, RE-SEED WITH PERMANENT SEED MIX AFTER 5/15.
3. SEED BED PREPARATION:
 - SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
 - STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED.

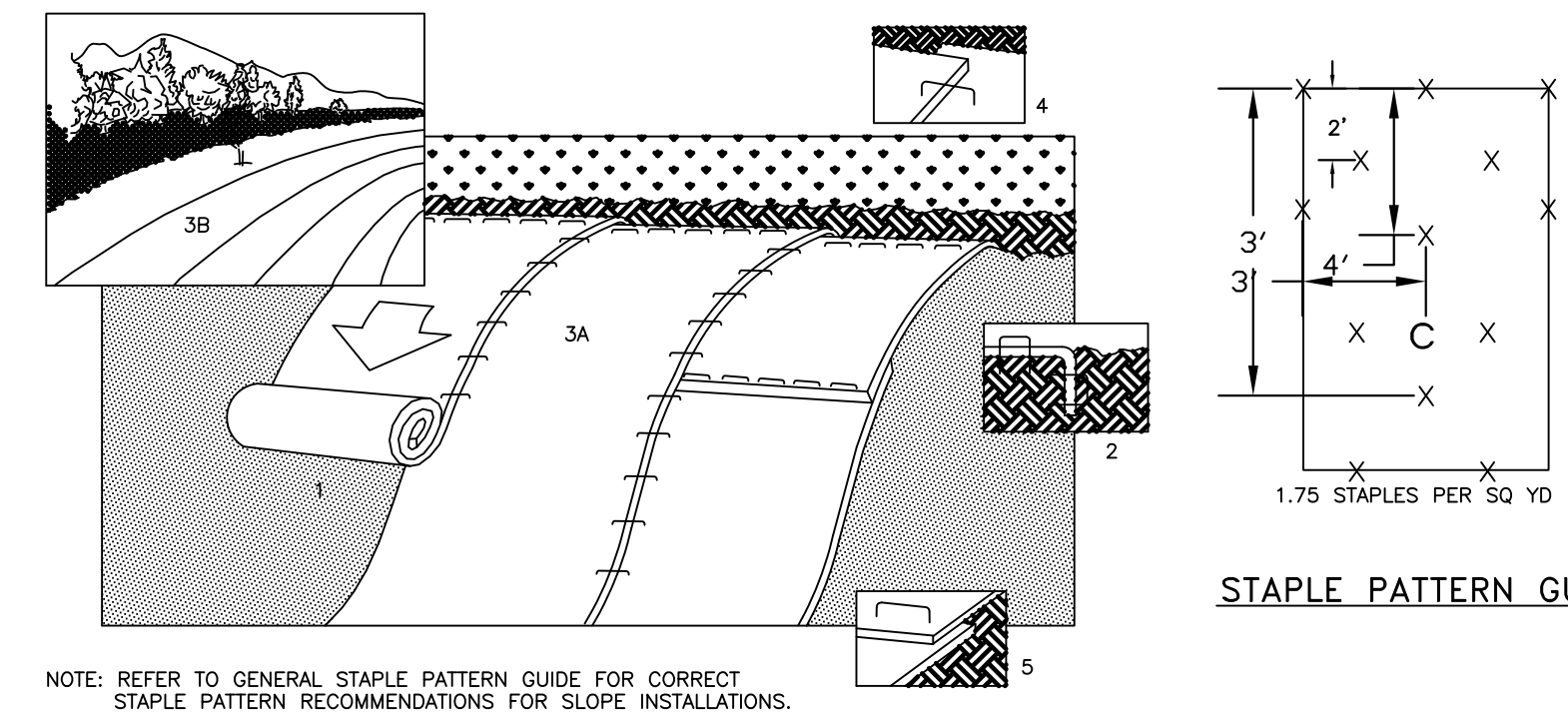
PERMANENT SEED		TEMPORARY SEED	
TALL FESCUE	- 20 LBS/ACRE	OATS	- 80 LBS/ACRE 4/01-5/14
CREeping RED FESCUE	- 20 LBS/ACRE	ANNUAL RYE GRASS	- 40 LBS/ACRE
BIRD'SFOOT TREFLOIL	- 8 LBS/ACRE	SUDANGRASS	- 40 LBS/ACRE 5/15-8/14
TOTAL	- 48 LBS/ACRE	ANNUAL RYEGRASS	- 80 LBS/ACRE 5/15-9/14
		WINTER RYE	- 112 LBS/ACRE 9/15-9/30
		WINTER RYE	- 112 LBS/ACRE 10/01-3/31 (PROTECT W/MULCH COVER)

*OR AS DIRECTED BY QUALIFIED SEED PROFESSIONAL



CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE

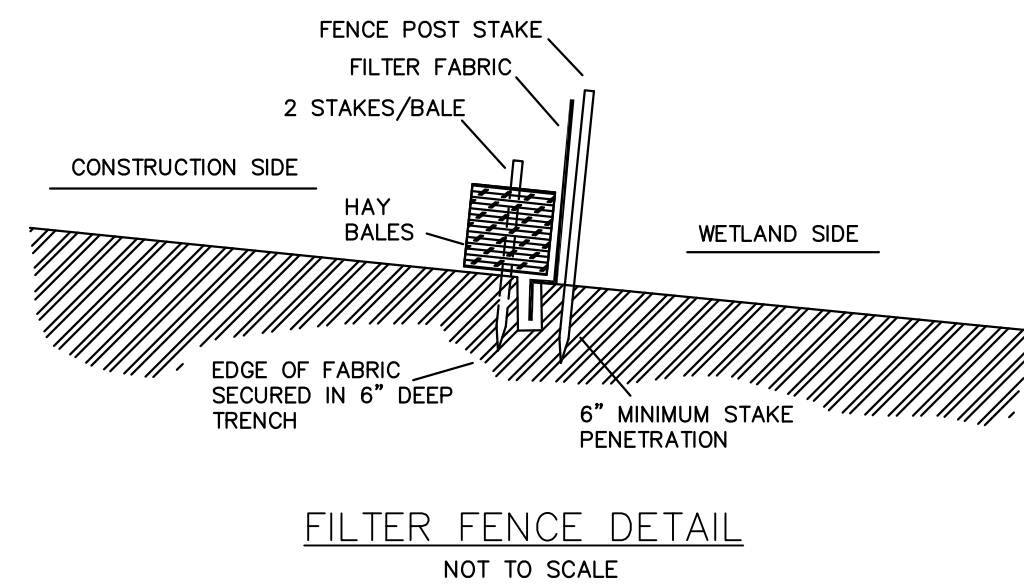
1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE PROPOSED ENTRANCE.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OF TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED PROPERLY.



- SLOPE INSTALLATION**
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
 5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
- EROSION CONTROL JUTE MATTING**
NOT TO SCALE

THIS SPACE NOT USED

THIS SPACE NOT USED



FILTER FENCE DETAIL
NOT TO SCALE

THIS SPACE NOT USED

CHECKED BY: BFM	SCALE: AS NOTED	JOB NUMBER: 14164	PLAN NUMBER: 4-L-998	FIELD BOOK REF(S):
DRAWN BY: WRF	DATE: OCTOBER 13, 2017	SHEET NUMBER: S3 OF S5	COMPS: 10006	PLAN REF(S):

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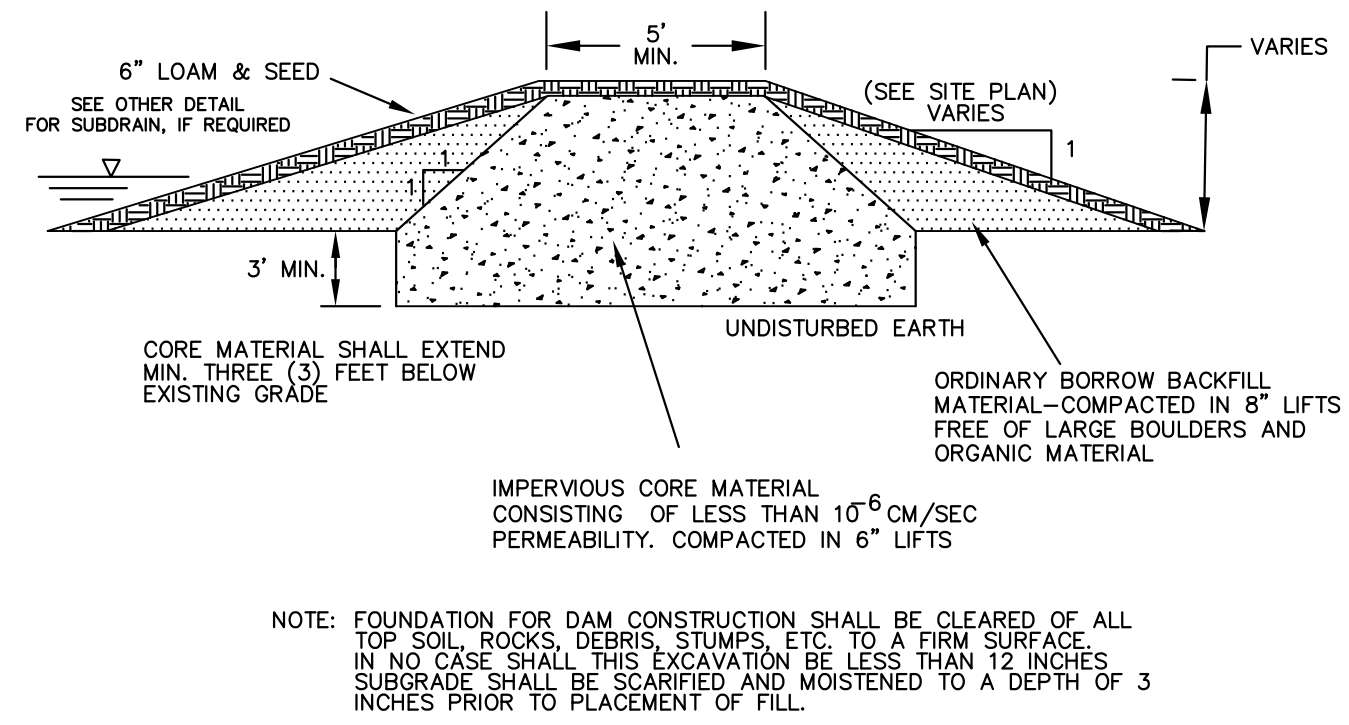
EROSION CONTROL NOTES & DETAILS
FOR
NORTH BLANDFORD ROAD SOLAR ARRAY
IN
BLANDFORD, MASSACHUSETTS

PREPARED FOR:
SOLAR SOLUTIONS, LLC
TONY SAVINO
102 GREENWICH AVENUE, 3RD FLOOR
GREENWICH, CONNECTICUT 06830
(203) 415-5535

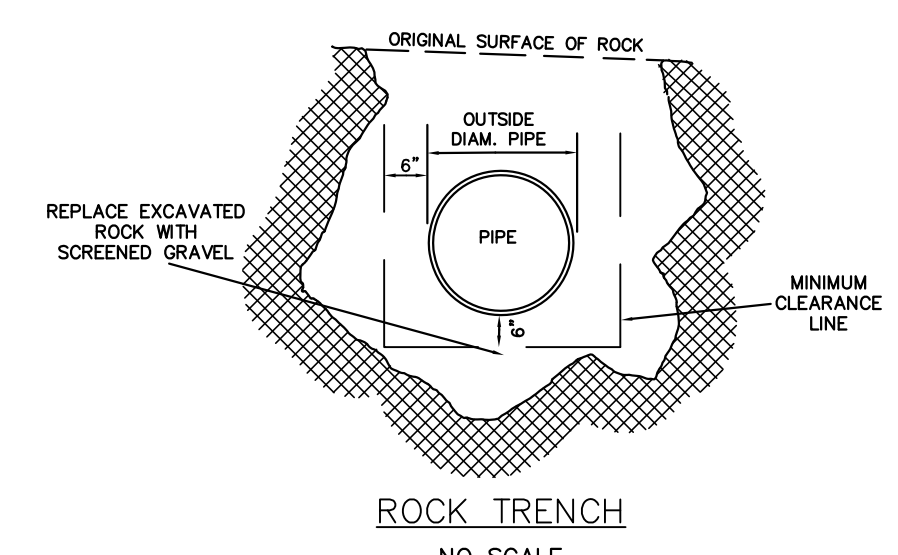
STATE OF MASSACHUSETTS
BRAND F. MALISCI
No. 38102
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12/31/2018

WHITMAN & BINGHAM
ASSOCIATES
REGISTERED ENGINEERS & LAND SURVEYORS

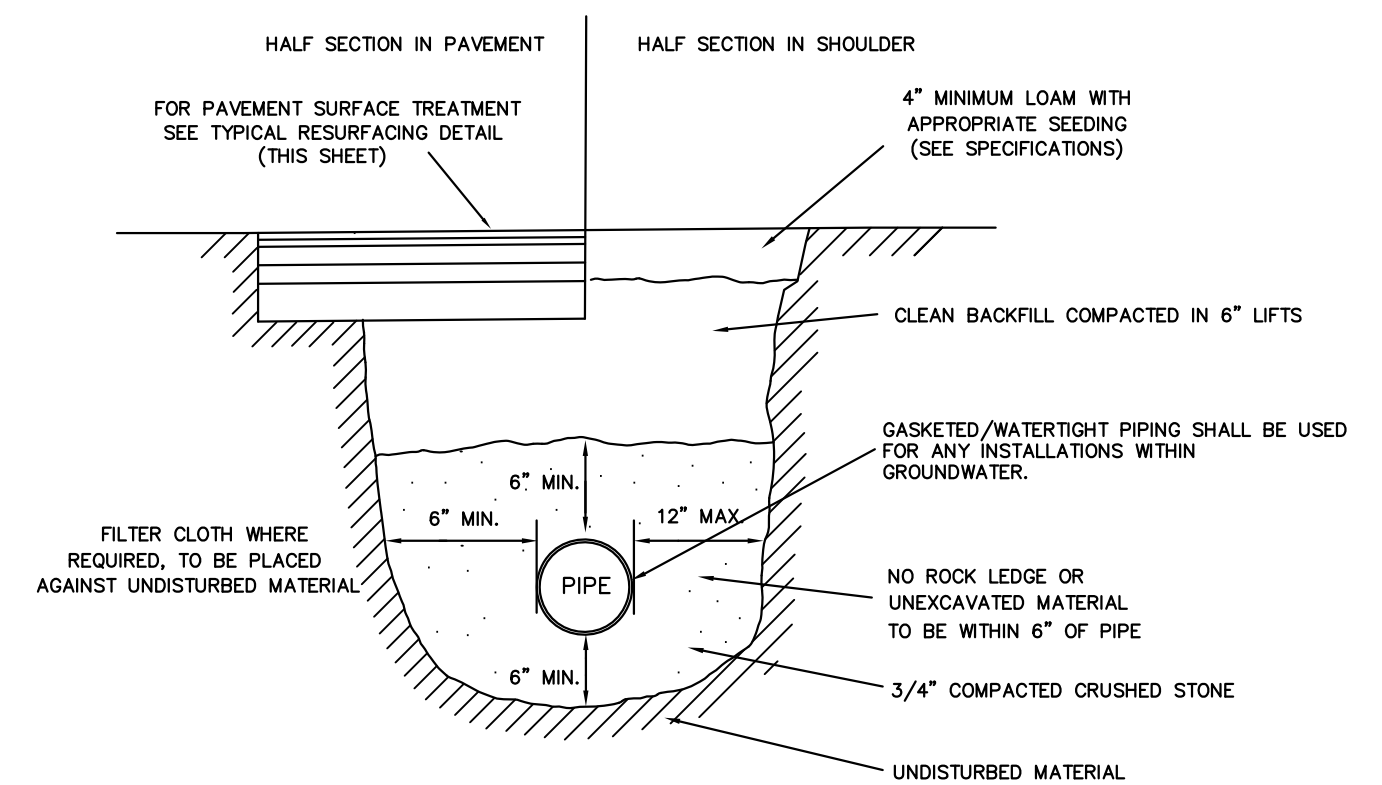
50 IMPERIAL STREET
LEOMINSTER, MASSACHUSETTS 01460
TEL: 978/537-5200
FAX: 978/537-1433



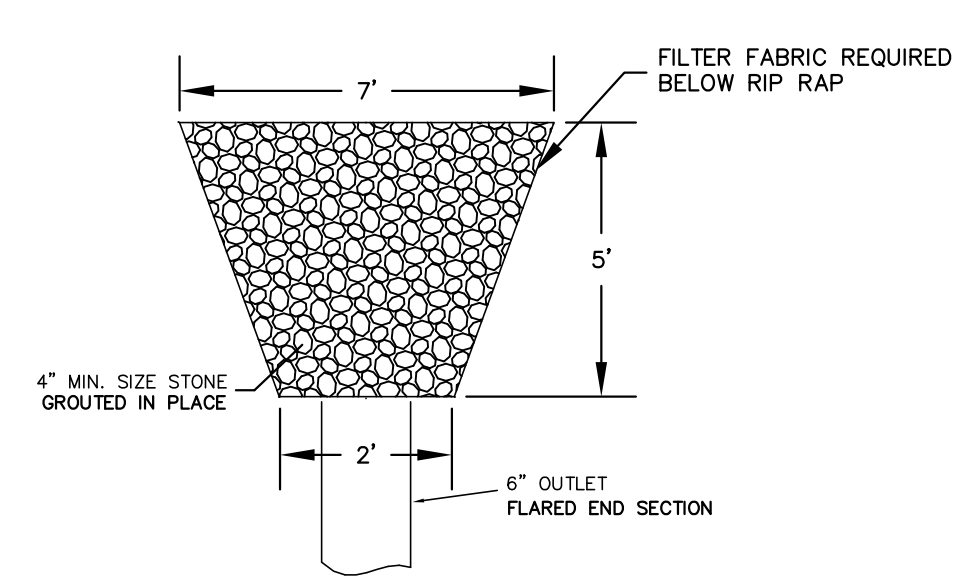
IMPERVIOUS CORE DETAIL
(PREFERRED OPTION)
REQUIRED FOR STORMWATER BASIN CONSTRUCTION IN FILL
NO SCALE



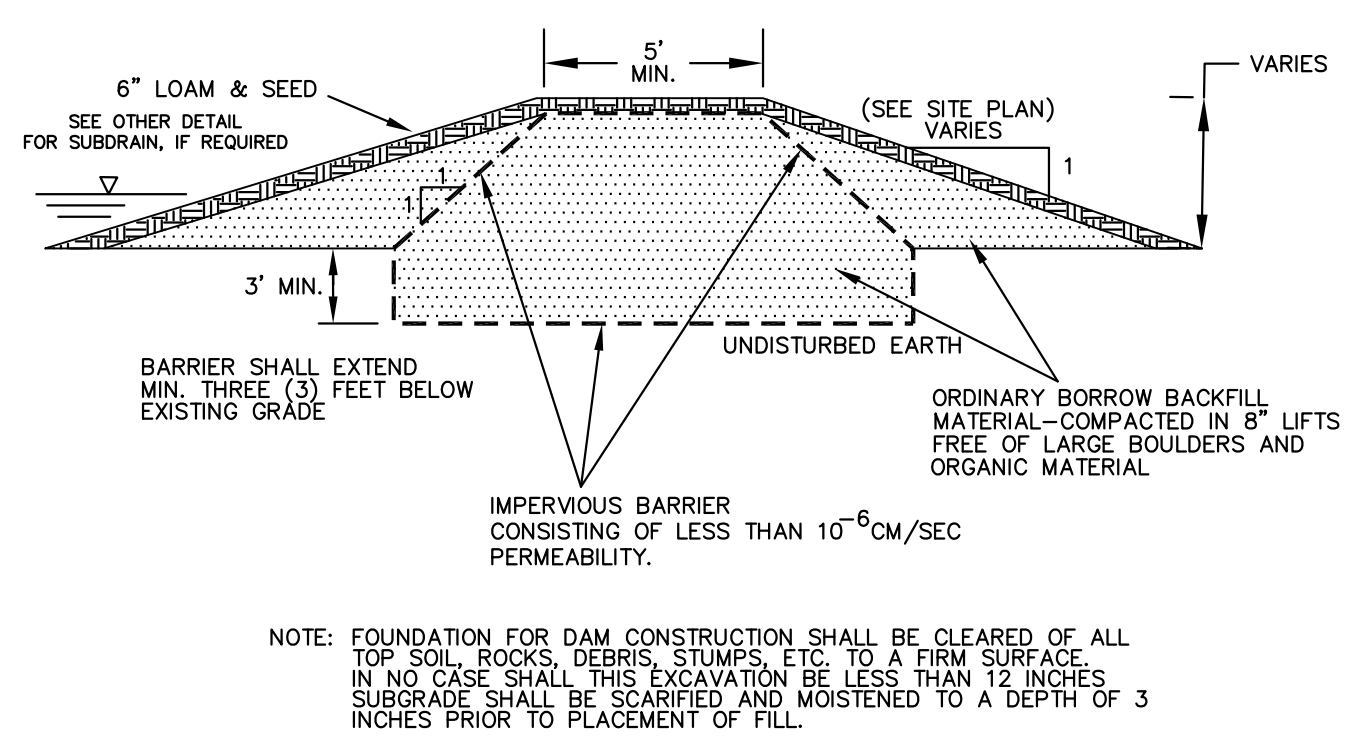
ROCK TRENCH
NO SCALE



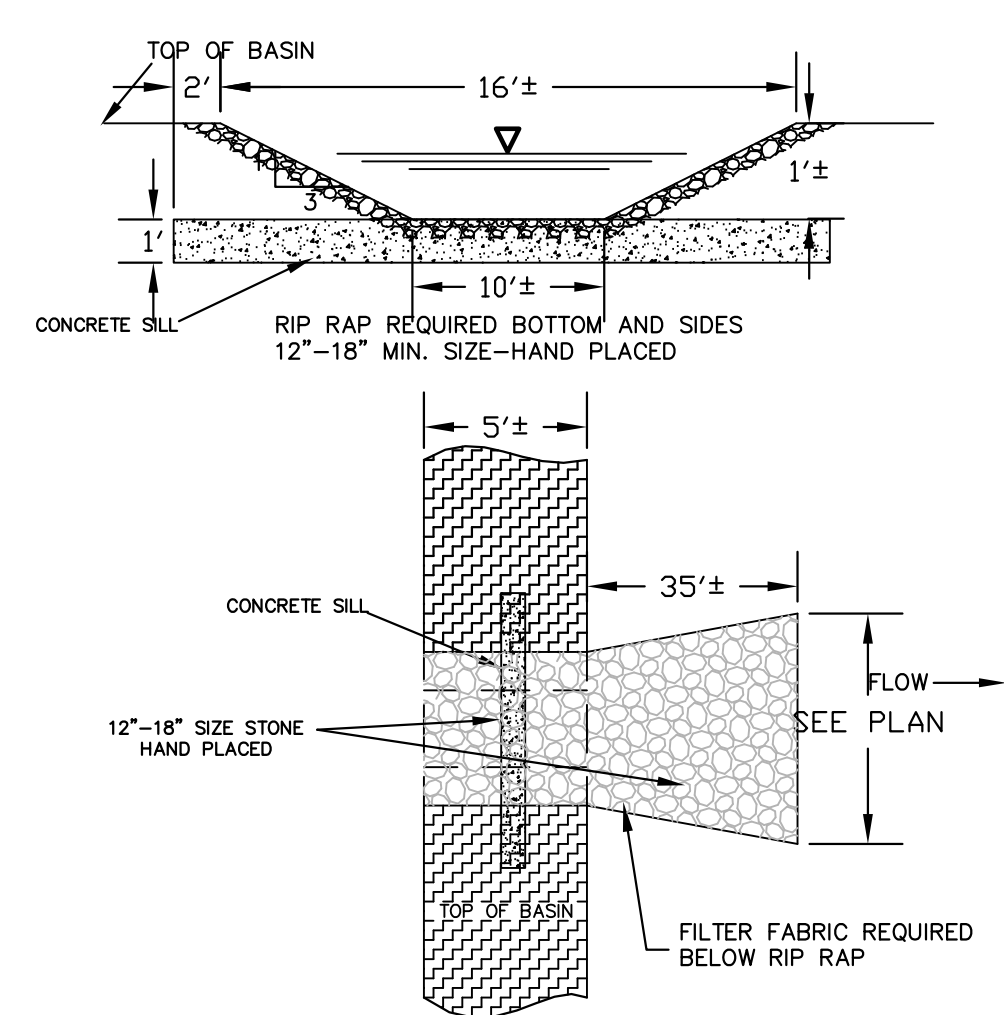
TYPICAL DRAIN TRENCH
NO SCALE



RIP RAP PAD DETAIL
NO SCALE

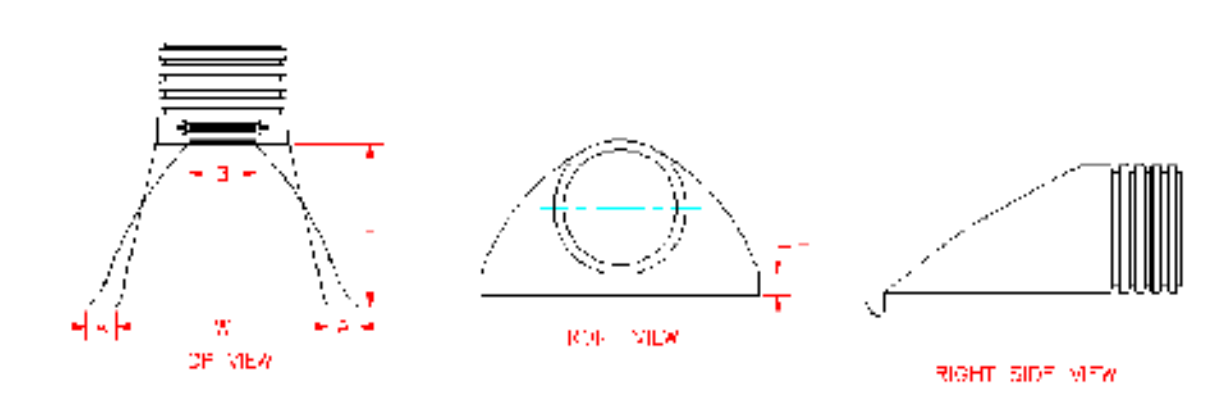


IMPERVIOUS CORE DETAIL
(ALTERNATE OPTION)
REQUIRED FOR STORMWATER BASIN CONSTRUCTION IN FILL
NO SCALE

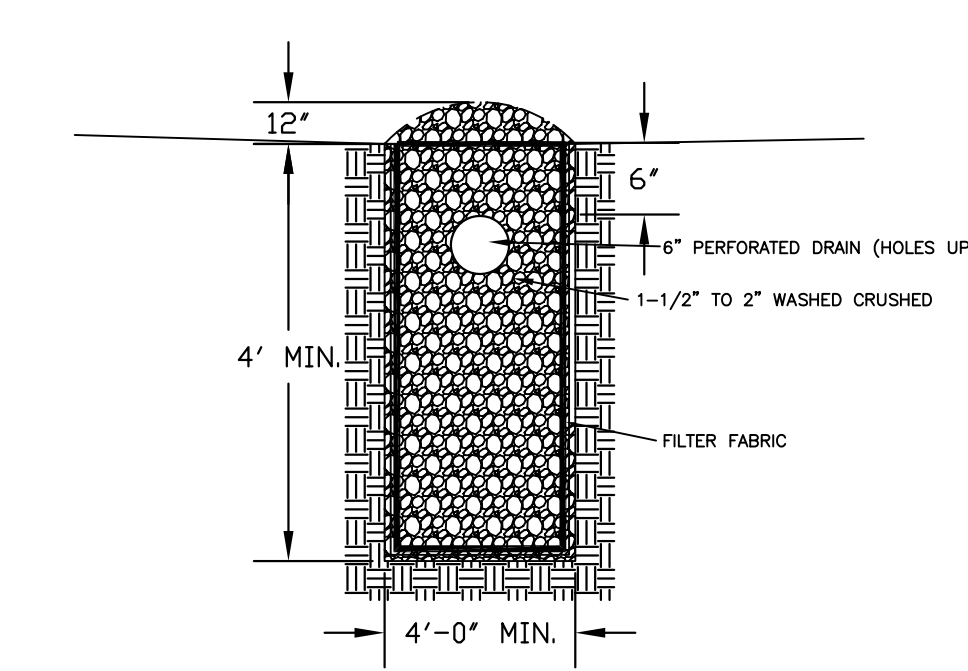


SPILLWAY DETAIL
NO SCALE

DEPTH	1'	2'	3'	4'	5'
1	1.00	1.35	1.70	2.05	2.40
2	1.35	1.70	2.05	2.40	2.75
3	1.70	2.05	2.40	2.75	3.10
4	2.05	2.40	2.75	3.10	3.45
5	2.40	2.75	3.10	3.45	3.80

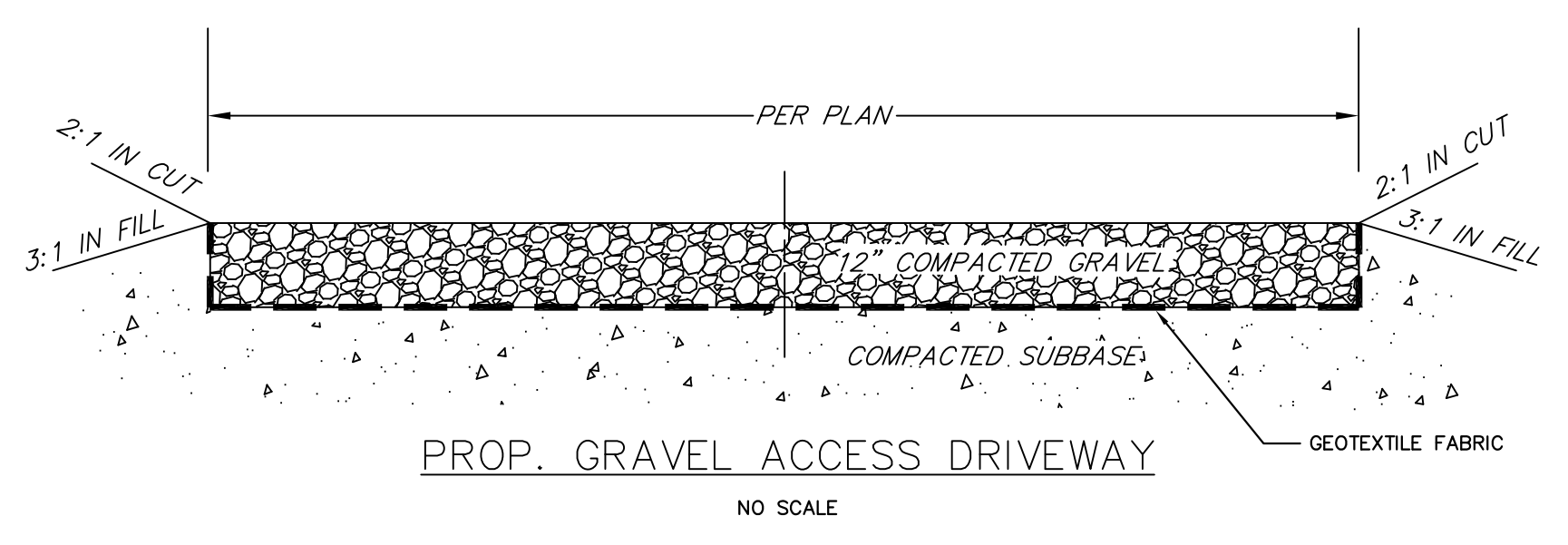
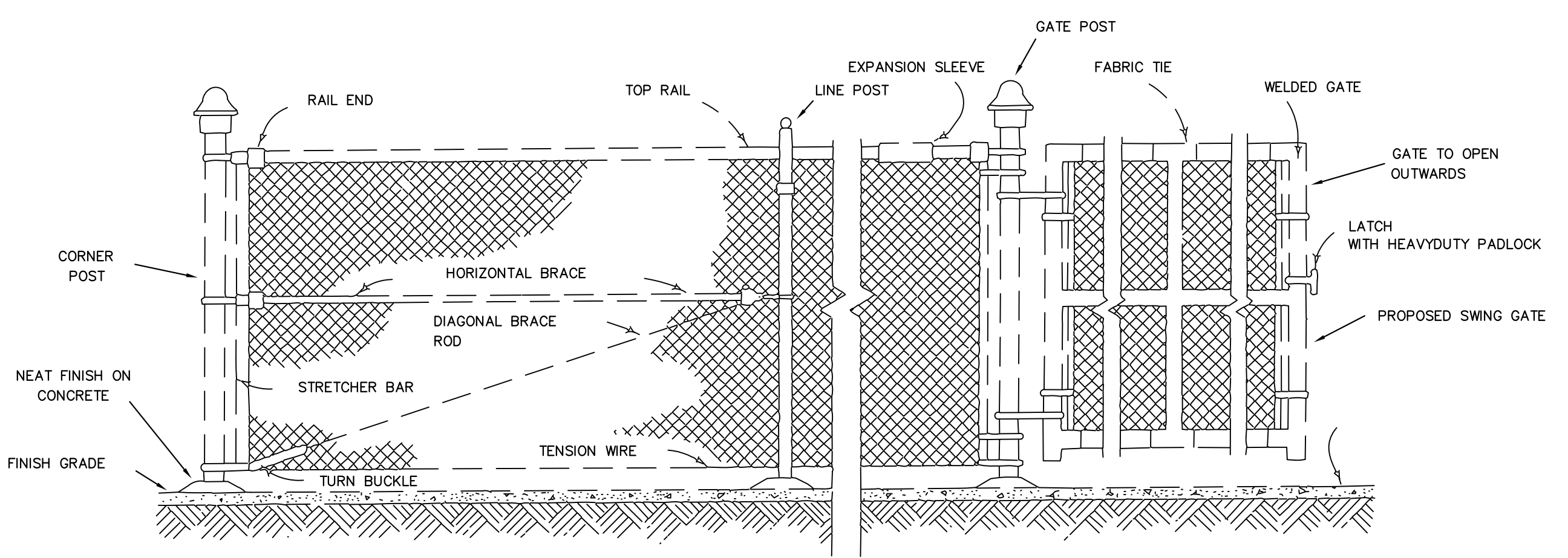


CULVERT FLARED END DETAIL
NO SCALE



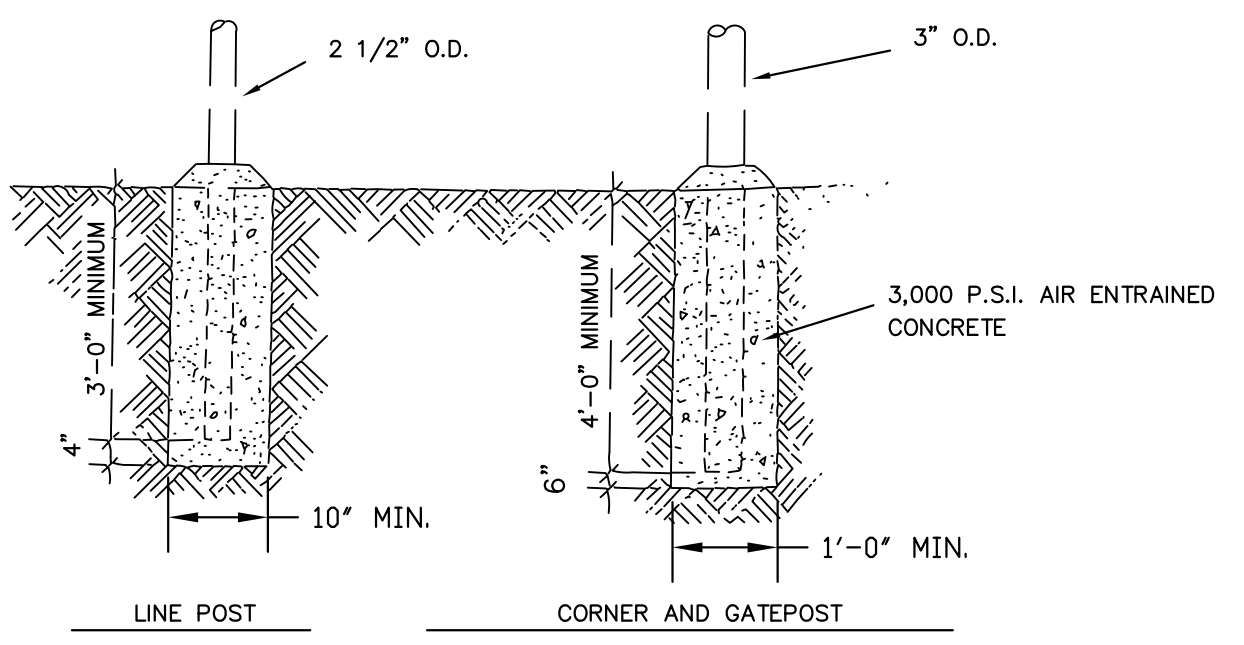
WICK DRAIN DETAIL
NO SCALE

WICK DRAIN TO BE INSTALLED AFTER BASIN IS NO LONGER USED FOR SEDIMENT COLLECTION DURING CONSTRUCTION



PROP. GRAVEL ACCESS DRIVEWAY
NO SCALE

FENCE TO BE 7-FOOT HIGH
LINE POSTS TO BE PLACED 8'-0" O.C. MAXIMUM
FENCING TO BE HOT DIPPED GALVANIZED
GAUGE 9 MINIMUM REQUIRED
MESH SIZE = 2"
SECURITY WIRE MAY BE REQUIRED ALONG TOP OF
FENCE. CHECK WITH LOCAL AUTHORITY.
LATCH ROD REQUIRED ON GATE AND CENTER STOP FOR SECURING
PURPOSES.



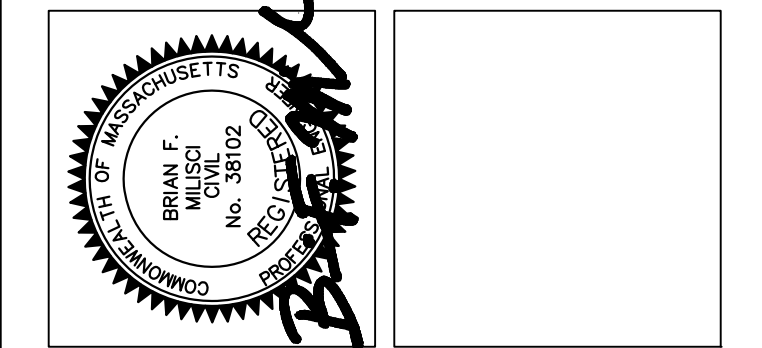
CHAIN LINK FENCE DETAIL
NOT TO SCALE

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NO.	DESCRIPTION	DATE	BY

CONSTRUCTION DETAILS
FOR
NORTH BLANDFORD ROAD SOLAR ARRAY
IN
BLANDFORD, MASSACHUSETTS

PREPARED FOR:
SOLAR SOLUTIONS, LLC
TONY SAVINO
102 GREENWICH AVENUE, 3RD FLOOR
GREENWICH, CONNECTICUT 06830
(203) 415-5535



WHITMAN & BINGHAM
ASSOCIATES
REGISTERED ENGINEERS & LAND SURVEYORS
LEONARD STREET
TEL. 978-255-5200
FAX. 978-255-1423

THIS SPACE NOT USED

CONSTRUCTION NOTES




















GENERAL:

- 1.) PROPERTY LINES SHOWN HEREON HAVE BEEN COMPILED FROM DEEDS AND PLANS OF RECORD.
- 2.) TOPOGRAPHY SHOWN ON THESE PLANS IS THE RESULT OF A TOPOGRAPHIC SURVEY PERFORMED IN 2017. ANY ALTERATIONS TO THE TOPOGRAPHY AFTER THIS DATE MAY NOT BE REFLECTED ON THIS PLAN.
- 3.) WETLAND DELINEATION SHOWN HEREON WAS PERFORMED BY CHARLES CARON ENVIRONMENTAL CONSULTING.
- 4.) UNLESS SPECIFIED OTHERWISE, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MASSACHUSETTS D.P.W. SPECIFICATIONS OF HIGHWAYS AND BRIDGES AS LAST REVISED, THE TOWN OF BLANDFORD PUBLIC WORKS DEPT. AND/OR THE APPROPRIATE LOCAL AUTHORITIES.
- 5.) *****DIG SAFE NOTE*****
IN ACCORDANCE WITH MGL. CH 82, SEC. 40 INCLUDING ALL AMENDMENTS, ALL CONTRACTORS SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING, OF THE INTENT TO EXCAVATE NO LESS THAN 72 HOURS PRIOR TO SUCH EXCAVATION (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS) OR CALL "DIG SAFE" AT 811.
- 6.) EXISTING UTILITY ELEVATIONS AND LOCATIONS SHOWN SHALL BE CONSIDERED APPROXIMATE ONLY. ALL UTILITY ELEVATIONS AND LOCATIONS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ANY UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE REPAIRED/REPLACED AS NECESSARY IF DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER AS SOON AS POSSIBLE.
- 7.) RELOCATION OF ANY UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROPRIATE UTILITY COMPANY AND/OR REGULATORY AGENCY, AT NO ADDITIONAL COST TO THE OWNER.
- 8.) ALL SLOPES UNLESS OTHERWISE SPECIFIED, SHALL BE LOAMED AND SEEDED AS SOON AS POSSIBLE FOR STABILIZATION AND TO PREVENT EROSION. SLOPES OF 2:1 AND STEEPER SHALL BE STABILIZED WITH AN EROSION CONTROL BLANKET.
- 9.) TEST PITS SHALL BE PERFORMED IN THE AREAS WHERE CROSSING EXISTING UTILITIES IS TO BE PERFORMED PRIOR TO CONSTRUCTION TO VERIFY UTILITY DEPTHS. ADDITIONAL TEST PITS IN OTHER AREAS MAY BE REQUIRED AS DIRECTED BY ENGINEER OR LOCAL APPROVING AUTHORITY. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER AT TIME OF TEST PITS.
- 10.) ADDITIONAL BENCHMARKS TO BE SET BY CONTRACTOR PRIOR TO CONSTRUCTION TO ENSURE QUALITY WORKMANSHIP.
- 11.) ANY DEVIATIONS I.E. "FIELD CHANGES" FROM THE DESIGN PLANS MUST BE APPROVED BY THE DESIGN ENGINEER IN WRITING. CONTRACTOR SHOULD BE AWARE THAT LOCAL AND STATE AUTHORITIES HAVE JURISDICTION AND APPROVALS MUST BE OBTAINED THROUGH THEIR RESPECTIVE OFFICE(S) PRIOR TO CONSTRUCTION. WHITMAN & BINGHAM ASSOCIATES, LLC ASSUMES NO LIABILITY OR RESPONSIBILITY WHATSOEVER FOR WORK COMPLETED WITHOUT REGARD TO THE ABOVE REQUIRED "FIELD CHANGE" PROCEDURE.
- 12.) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSURANCES THAT MAY BE REQUIRED ON THIS PROJECT. ALL ORDERS OF CONDITIONS, STREET OPENING REQUIREMENTS, AND OTHER REQUIREMENTS UNDER PERMITTING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 13.) THESE PLANS CONTAINED HEREIN SHALL SUPERSEDE ANY AND ALL PREVIOUS DESIGNS PREVIOUSLY PREPARED FOR THE SUBJECT SITE.
- 14.) DAILY AND PROPER MAINTENANCE OF ALL DITCHES AND EXCAVATIONS ARE REQUIRED. TEMPORARY AND PERMANENT PATCH PER SPECIFICATIONS AND THESE PLANS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. UNDER NO CIRCUMSTANCES, ANY EXCAVATION OR DITCH SHALL BE LEFT UNCOVERED, NOT PROPERLY PATCHED, LEFT NOT MAINTAINED OR IN IMPROPER SURFACE CONDITION.
- 15.) ALL EXCESS MATERIALS I.E., SOIL, LEDGE, WATER, AND GENERAL DEBRIS, WILL BE REMOVED AND DISPOSED BY THE CONTRACTOR OFF SITE AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.

SITE WORK:

- 1.) CONSTRUCTION ACTIVITY MAY TAKE PLACE ONLY DURING HOURS AS SPECIFIED BY THE APPROPRIATE OFFICIAL OF THE TOWN OF BLANDFORD.
- 2.) CAUTION - NOTICE TO CONTRACTOR THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS OR NOT AT NO ADDITIONAL EXPENSE TO OWNER.
- 3.) FILL MATERIAL
 - A.) ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH, AND DEBRIS PRIOR TO FILL PLACEMENT.
 - B.) PLACE FILL MATERIAL IN HORIZONTAL LAYERS NOT EXCEEDING EIGHT INCHES (8") IN LOOSE DEPTH AND COMPACT EACH LAYER AT OPTIMUM MOISTURE CONTENT OF FILL MATERIAL TO DENSITY EQUAL TO ORIGINAL ADJACENT GROUND, UNLESS SUBSEQUENT EXCAVATION FOR NEW WORK IS REQUIRED.
 - C.) GRADE SURFACE TO MATCH ADJACENT GRADES AND TO PROVIDE FLOW TO SURFACE DRAINAGE STRUCTURES AFTER FILL PLACEMENT AND COMPACTION.
 - D.) ROADWAY FILL SHALL BE COMPACTED IN HORIZONTAL LAYERS NOT EXCEEDING 6" IN LOOSE DEPTH AND COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY (STANDARD PROCTOR).
- 4.) FINISH GRADING GRADE ALL AREAS WHERE FINISH GRADE ELEVATIONS ARE INDICATED ON DRAWINGS, OTHER THAN PAVED AREAS AND BUILDINGS, INCLUDING EXCAVATED AREAS, FILLED AND TRANSITION AREAS, AND LANDSCAPED AREAS. GRADED AREAS SHALL BE UNIFORM AND SMOOTH, FREE OF DEBRIS, OR IRREGULAR SURFACE CHANGES. FINISHED SUB GRADE SURFACE SHALL NOT BE MORE THAN 0.10 FEET ABOVE OR BELOW ESTABLISHED FINISHED SUB GRADE ELEVATIONS, AND ALL GROUND SURFACES SHALL VARY UNIFORMLY BETWEEN INDICATED ELEVATIONS. FINISH DITCHES SHALL BE GRADED TO ALLOW FOR PROPER DRAINAGE WITHOUT PONDING AND IN A MANNER THAT WILL MINIMIZE EROSION POTENTIAL.
- 5.) THE CONTRACTOR IS RESPONSIBLE FOR GENERAL CLEANUP OF THE PROJECT ON A DAILY BASIS AND AT THE COMPLETION OF THE PROJECT. OPEN TRENCHES, DITCHES, EXCAVATIONS, ETC. SHALL NOT BE PERMITTED TO BE LEFT OPEN OVERNIGHT. CONTRACTOR WILL BACK FILL OR UTILIZED SUITABLE STEEL PLATES FOR THE SECURING OF THE PROJECT SITE PRIOR TO CEASING WORK IN THAT PARTICULAR SECTION OF THE PROJECT.
- 6.) APPROPRIATE TRAFFIC CONTROL I.E. SIGNAGE, BARRICADES, AND OTHER MEANS WILL BE SUPPLIED BY THE CONTRACTOR AND ACCORDING TO ALL FEDERAL, STATE AND LOCAL AGENCIES AT NO ADDITIONAL COST TO OWNER.
- 7.) UNDER NO CIRCUMSTANCES WILL ANY UTILITY, STRUCTURE, OR REPAIR BE BACK FILLED UNLESS INSPECTED AND APPROVED BY THE APPROPRIATE TOWN OFFICIAL OR ITS DESIGNATE. THIS WILL NOT RELEASE THE CONTRACTOR FROM ANY RESPONSIBILITY OR LIABILITY AS A RESULT OF PERFORMANCE TESTS THAT ARE REQUIRED AS PART OF THIS PROJECT. THE TOWN OF BLANDFORD PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED WHEN DRAINAGE WORK IS TO COMMENCE IN ORDER TO ARRANGE FOR INSPECTIONS OF SAID WORK.
- 8.) DUE TO THE POSSIBILITY OF DEEP TRENCHES, PROPER SHORING AND/OR THE USE OF TRENCH BOXES SHALL BE UTILIZED AS DIRECTED BY LOCAL, STATE, AND/OR FEDERAL REGULATORY AGENCIES TO PROVIDE FOR A SAFE WORKING ENVIRONMENT.
- 9.) ALL UTILITIES SHOWN OR NOT SHOWN ON THE PLAN(S) WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED OR MOVED AS REQUIRED BY THE THE CONTRACTOR (SEE SITE WORK NOTE #2 AND GENERAL NOTE #5), AT NO ADDITIONAL COST TO THE OWNER.
- 10.) USE OF EXPLOSIVES
 - A.) COMPLY WITH ALL LAWS, RULES, AND REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES AND INSURER WHICH GOVERN STORAGE, USE, MANUFACTURE, SALE, HANDLING, TRANSPORTATION, LICENSING, OR OTHER DISPOSITION OF EXPLOSIVES. TAKE SPECIAL PRECAUTIONS FOR PROPER USE OF EXPLOSIVES TO PREVENT HARM TO HUMAN LIFE AND DAMAGE TO SURFACE STRUCTURES, ALL UTILITY LINES, OR OTHER SUBSURFACE STRUCTURES. DO NOT CONDUCT BLASTING OPERATIONS UNTIL PERSONS IN VICINITY HAVE HAD AMPLE NOTICE AND HAVE REACHED POSITIONS OF SAFETY.
 - B.) BLASTING OF ANY ROCK SHALL REQUIRE APPROPRIATE APPROVALS FROM THE APPROPRIATE FIRE DEPARTMENT, PLANNING BOARD, BUILDING INSPECTOR AND/OR OTHER AGENCIES, PRIOR TO COMMENCEMENT OF WORK. FIRE DEPARTMENT MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BLASTING. AT THE DISCRETION OF THE FIRE DEPARTMENT, BLASTING MAY NEED TO BE MONITORED WITH A INDEPENDENTLY SUPERVISED SEISMOGRAPH. ALL BLASTED ROCK OR OTHER EXCESS MATERIALS WILL BE REMOVED DISPOSED OF PROPERLY EITHER OFF-SITE OR ON-SITE, AT NO ADDITIONAL COST TO THE OWNER.
- 11.) PROTECTIONS
 - A.) PROVIDE PROTECTION NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS, TREES OR VEGETATION.
 - B.) PROTECT IMPROVEMENTS ON ADJOINING PROPERTIES AND ON OWNER'S PROPERTY.
 - C.) RESTORE DAMAGED IMPROVEMENTS TO ORIGINAL CONDITION AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.
 - D.) CONDUCT OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. STREETS AND ROADWAYS SHALL BE THOROUGHLY CLEANED AND/OR SWEEPED ON A DAILY BASIS OR MORE FREQUENTLY AS REQUIRED BY THE GOVERNING AUTHORITY.

LEGEND

EXISTING CONTOURS	----- 542 ----- ----- 540 -----
PROPOSED CONTOURS	===== 550 =====
PROPERTY LINES	-----
EDGE OF WETLANDS
100' BUFFER ZONE	-----
EXISTING SEWER	--- S --- S --- S ---
EXISTING DRAIN	--- D --- D --- D ---
EXISTING WATER	--- W --- W --- W ---
GAS LINE	--- G --- G --- G ---
UNDERGROUND UTILITIES	--- E/C/T --- E/C/T ---
UNDERGROUND ELECTRIC	--- E --- E --- E ---
FORCE MAIN	--- FM --- FM --- FM ---
UNDERGROUND TELEPHONE	--- T --- T --- T ---
EDGE OF PAVEMENT	-----
EXISTING BERM	=====
PROPOSED SEWER	=====  ====
PROPOSED DRAIN	=====  ====
GUARDRAIL	-----  -----
SEWER MANHOLE	
DRAIN MANHOLE	
ELECTRIC MANHOLE	
WATER MANHOLE	
TELEPHONE MANHOLE	
CATCH BASIN	
UTILITY POLE	
FIRE HYDRANT	
WATER VALVE	
GAS VALVE	
SILT FENCE/HAYBALES	-----  -----
EDGE OF WOODS	-----  -----
EXISTING FENCE	----- x ----- x -----
STONE WALL	-----  -----
SUBSURFACE BORING	
PROPOSED BOUND	
PROPOSED TRANSFORMER	

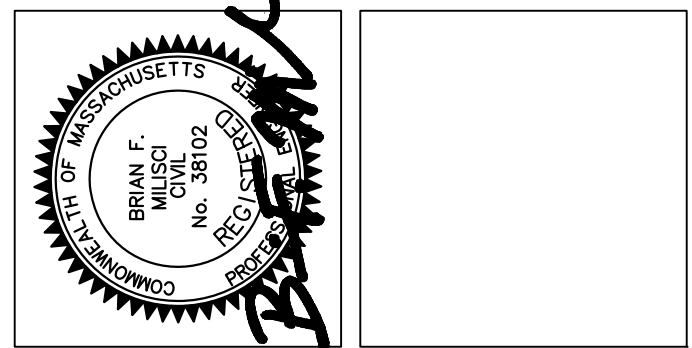
ABBREVIATIONS

RCP	- REINFORCED CONCRETE PIPE
PVC	- POLYVINYL CHLORIDE
CMP	- CORRUGATED METAL PIPE
CONC.	- CONCRETE
AC	- ASBESTOS CEMENT
CI	- CAST IRON
DI	- DUCTILE IRON
CLDI	- CEMENT LINED DUCTILE IRON
VC	- VITRIFIED CLAY
WI	- WROUGHT IRON
BSW	- BITUMINOUS CONCRETE SIDEWALK
CSW	- CONCRETE CEMENT SIDEWALK
BCC	- BITUMINOUS CONCRETE CURB
SGC	- SLOPED GRANITE CURB
VGC	- VERTICAL FACE GRANITE CURB

CHECKED BY: BFM	SCALE: AS NOTED	JOB NUMBER: 14164	PLAN NUMBER: 4-L-998	FIELD BOOK REF(S):
DRAWN BY: WRF	DATE: OCTOBER 13, 2017	SHEET NUMBER: S5 OF S5	COMPS: 10006	PLAN REF(S):

REVISIONS	NO.	DESCRIPTION	DATE	BY

CONSTRUCTION NOTES FOR NORTH BLANDFORD ROAD SOLAR ARRAY IN BLANDFORD, MASSACHUSETTS	PREPARED FOR: SOLAR SOLUTIONS, LLC TONY SAVINO 102 GREENWICH AVENUE, 3RD FLOOR GREENWICH, CONNECTICUT 06830 (203) 415-5535
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WHITMAN & BINGHAM
ASSOCIATES
REGISTERED ENGINEERS & LAND SURVEYORS
500 MECHANIC STREET
LEOMINSTER, MASSACHUSETTS 01048
TEL: 978/537-5200
FAX: 978/655-1433