

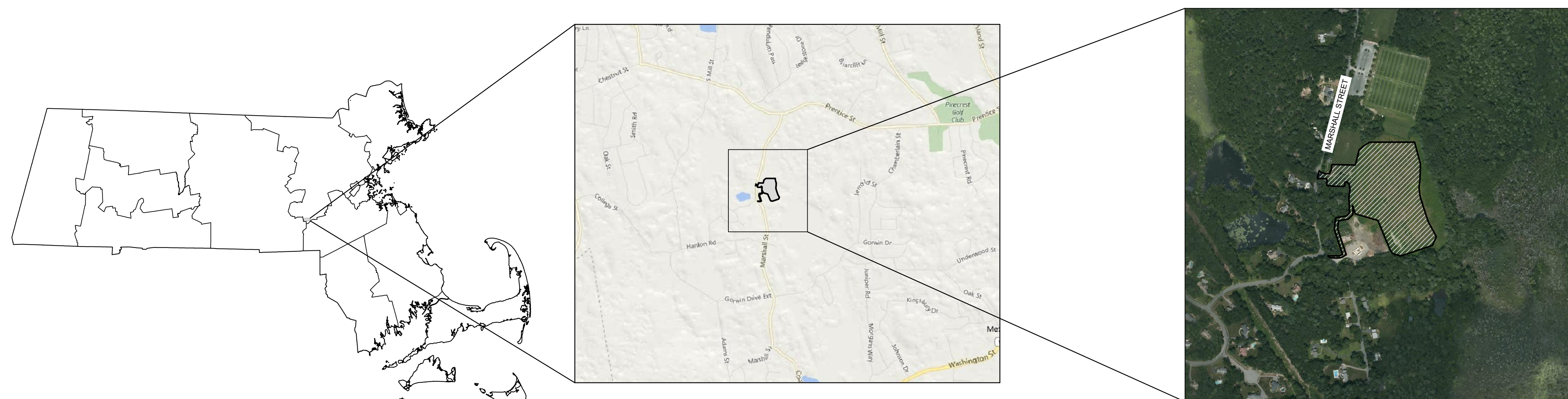
SCS MARSHALL SOLAR PROJECT - MARSHALL STREET LANDFILL PROPOSED 2.5 MW-AC SOLAR ARRAY

MARSHALL STREET, HOLLISTON, MA

**PREPARED FOR: SCS MARSHALL 012252 HOLLISTON, LLC
C/O SOL SYSTEMS, LLC
1101 CONNECTICUT AVE NW, SECOND FLOOR
WASHINGTON, DC 20036**

**PREPARED BY: TRC COMPANIES, INC.
LOWELL, MASSACHUSETTS 01854**

DATE: JULY 2021

**MASSACHUSETTS****HOLLISTON, MIDDLESEX COUNTY**

SITE LOCATOR

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
G-1	CIVIL COVER SHEET
G-2	GENERAL NOTES & LEGEND
G-3	EROSION CONTROL NOTES & DETAILS
C-1	EXISTING CONDITIONS PLAN
C-2	OVERALL SITE LAYOUT PLAN
C-3	SITE GRADING & DRAINAGE PLAN
C-4	CIVIL CONSTRUCTION DETAILS
C-5	PRELIMINARY ELECTRICAL DETAILS
SW-1	PRE-DEVELOPMENT DRAINAGE PLAN
SW-2	POST-DEVELOPMENT DRAINAGE PLAN



PERMITTING
NOT FOR CONSTRUCTION



650 Suffolk Street
Suite 200
Lowell, MA 01854
Phone: 978 970 5600

2436 - USER: daniel - ATTACHED: VREFS - ATTACHED: IMAGES: DigSafe - PROJECT: 10-DWG: Holliston - G-SHEETS.dwg -- PLOT DATE: July 16, 2021 - 3:27PM -- LAYOUT: G-2

GENERAL NOTES

- THE PROJECT HORIZONTAL COORDINATES SYSTEM IS BASED ON NAD83 MASSACHUSETTS STATE PLANES (US SURVEY FEET, MAINLAND ZONE, MAB3P). ELEVATIONS ARE BASED ON NAVD88 (US SURVEY FEET).
- PROJECT PROPERTY BOUNDARIES AND SITE TOPOGRAPHIC INFORMATION ARE BASED UPON AN AERIAL LIDAR SURVEY COMPLETED BY MERIDIAN ASSOCIATES, INC. ON NOVEMBER 6, 2019 AND SUPPLEMENTED WITH INSTRUMENT SURVEY CONDUCTED ON THE GROUND BY MERIDIAN ASSOCIATES, INC. BETWEEN MAY 6-12, 2020 AS PROVIDED IN A PLAN ENTITLED "MARSHALL STREET ALTAIRNSP'S LAND TITLE SURVEY" AND DATED JUNE 12, 2020. SURVEY INFORMATION OBTAINED FROM A COMBINATION OF TOWN OF HOLLISTON TAX MAPS, FIELD SURVEY AND DEED RESEARCH. BOUNDARY SURVEY PLANS SEALED BY A LICENSED PROFESSIONAL LAND SURVEYOR ARE PROVIDED UNDER SEPARATE COVER.
- UTILITY INFORMATION DEPICTED IS COMPILED USING PHYSICAL SURFACE EVIDENCE LOCATED IN THE FIELD IN CONJUNCTION WITH ANY RECORD INFORMATION AVAILABLE AT THE TIME OF THE FIELD SURVEY AND MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. THEREFORE ALL UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AND BE VERIFIED BY THE CONTRACTOR. DIGSAFE SHALL BE NOTIFIED A MINIMUM OF 72-HOURS PRIOR TO COMMENCING ANY EXCAVATION. FULL UTILITY COORDINATION WITH NON-MEMBER UTILITIES AND USE OF GROUND-PENETRATING RADAR TO LOCATE UTILITIES SHOULD BE PERFORMED AS NECESSARY.
- WETLAND DELINEATION WAS PERFORMED BY TRC ON MARCH 31, 2020 AND LOCATED USING MAPPING GRADE GPS UNITS. ADDITIONAL NATURAL RESOURCE LAYERS ARE COMPILED FROM A COMBINATION OF SOURCES INCLUDING STATE OF MASSACHUSETTS GIS DATA LAYERS.
- LIMITS OF LANDFILL COVER ARE ESTIMATED BASED "FIGURE 1 - AUGUST 13, 2020 POST-CLOSURE LANDFILL INSPECTION," PREPARED BY KLEINFELDER AND DATED AUGUST 2020, AND SHOULD BE CONSIDERED APPROXIMATE.
- THIS IS A PRELIMINARY DESIGN PLAN. FINAL DESIGN SHALL BE MODIFIED BY CONTRACTOR TO MATCH FINAL ELECTRICAL INTERCONNECTION STUDIES, EQUIPMENT PURCHASED, AND POSSIBLE PERMIT CONSTRAINTS REVEALED DURING PROJECT'S REVIEW. ELECTRICAL EQUIPMENT LAYOUT INCLUDING EQUIPMENT PADS, UTILITY POLES, ETC. WERE PROVIDED BY PURE POWER ENGINEERING, INC. ON JULY 21, 2020.
- ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, PROJECT GEOTECHNICAL REPORT, AND ANY OTHER APPLICABLE TECHNICAL REPORTS. WHERE INDICATED, STATE AND/OR LOCAL STANDARD SPECIFICATIONS SHALL APPLY.
- THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING STATE AND FEDERAL REQUIREMENTS WITH RESPECT TO STORMWATER DISCHARGE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES AND SITE INFRASTRUCTURE WITHIN OR ADJACENT TO THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONSTRUCTION SHALL NOT OCCUR IN ANY PUBLIC RIGHTS OF WAY, PUBLIC OR PRIVATE EASEMENTS, BEYOND THE LIMITS OF DISTURBANCE, OR OUTSIDE THE PROPERTY LIMITS WITHOUT NECESSARY PERMITS. ANY PUBLIC OR PRIVATE PROPERTY OR IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE COST OF THE CONTRACTOR.
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT OF WAY. OVERNIGHT PARKING OF CONSTRUCTION VEHICLES ON PRIVATE PROPERTY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PROPERTY CORNERS OR MONUMENTS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF MASSACHUSETTS.
- CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONTROLLING THE POLLUTION OF THE ENVIRONMENT.
- CONTRACTOR TO ENSURE ALL WORK PERFORMED IS IN ACCORDANCE WITH EXISTING PROJECT PERMITS, STUDIES, AND REPORTS PROVIDED IN THE CONTRACT DOCUMENTS INCLUDING STATE STORMWATER MANAGEMENT PERMIT AND LOCAL ORDINANCE.
- IT IS THE INTENT OF THESE PLANS THAT THE CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE THE IDENTIFIED PROJECT BOUNDARIES AND CLEARING LIMITS.
- IT IS THE INTENT OF THESE PLANS THAT THE CONTRACTOR AVOID "FILLING" WETLANDS AT ALL COSTS. CONTRACTOR TO AVOID THE DELINEATED WETLAND AREAS AND NATURAL RESOURCES ONSITE.
- NO DISTURBANCE ACTIVITIES SHOULD TAKE PLACE WITHIN 50 FEET OF ANY PROTECTED NATURAL RESOURCE. ALL AREAS WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIERS NOVEMBER 1 THROUGH APRIL 15.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THE PROJECT.
- EXISTING ACCESS ROADS TO BE MAINTAINED SHALL BE PROOF ROLLED, SMOOTHED, AND RESURFACED AS NECESSARY TO PROVIDE AN ACCEPTABLE SURFACE.
- THE CONTRACTOR SHALL SECURE PERMITS FROM THE STATE AND TOWN OF HOLLISTON AS NECESSARY BEFORE DRIVING CONSTRUCTION EQUIPMENT OVER AND ACROSS STATE AND TOWN MAINTAINED ROADS.
- ALL WORK IN THE PUBLIC RIGHTS OF WAY SHALL CONFORM WITH THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS".
- THE INTEGRITY OF THE LANDFILL COVER SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THERE SHALL BE NO PENETRATIONS INTO THE COVER OR REMOVAL OF COVER MATERIAL UNLESS SPECIFIED IN THESE PLANS OR PRIOR APPROVAL IS GRANTED BY THE MASSDEP. IF DAMAGE TO THE COVER OCCURS, IT SHALL BE RESTORED TO PREEXISTING CONDITIONS AS SOON AS POSSIBLE AND COVER MATERIAL SHALL BE SUPPLEMENTED WITH BENTONITE AS NEEDED.
- ONLY LOW GROUND PRESSURE EQUIPMENT (HAVING A CONTACT PRESSURE OF 10 PSI OR LESS), SUCH AS TRACK-MOUNTED CONSTRUCTION EQUIPMENT AND RUBBER-TIRED LANDSCAPING EQUIPMENT, SHALL TRAVEL DIRECTLY ON THE LANDFILL COVER. ALL OTHER EQUIPMENT SHALL BE ROUTED OVER TEMPORARY OR PERMANENT ACCESS ROADS.

HOUSEKEEPING NOTES

CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN ACCORDANCE WITH THE FOLLOWING PERFORMANCE STANDARDS:

- SPILL PREVENTION:** CONTROLS SHALL BE IN PLACE TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS USED AND STORED ONSITE. APPROPRIATE CONTROLS INCLUDE, BUT ARE NOT LIMITED TO, PROPER STORAGE PRACTICES THAT MINIMIZE EXPOSURE OF MATERIALS TO STORMWATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND IMPLEMENTATION.
- GROUNDWATER PROTECTION:** DURING CONSTRUCTION, THE CONTRACTOR MAY NOT STORE OR HANDLE LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER IN AREAS OF THE PROJECT SITES DRAINING TO AN INFILTRATION AREA OR WITHIN 100 FEET OF A CRITICAL RESOURCE AREA OR STREAM, DIKES, BERM, SLUMPS, AND OTHER FORMS OF SECONDARY CONTAMINANT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORING AND HANDLING LIQUID HAZARDOUS MATERIALS.
- FUGITIVE SEDIMENT AND DUST:** CONTRACTOR SHALL TAKE ALL NECESSARY ACTIONS TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OPERATIONS DURING DRY MONTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS ROADS ONCE A WEEK OR MORE FREQUENTLY AS NEEDED WITH A WATER ADDITIVE. CALCIUM CHLORIDE AND OIL MAY NOT BE USED FOR DUST CONTROL. CONTRACTOR SHALL MONITOR VEHICLES ENTERING AND EXITING THE PROJECT SITE FOR EVIDENCE OF TRACKING MUD ONTO PUBLIC OR PRIVATE ROADWAYS OUTSIDE THE WORK AREA. IF NECESSARY, CONTRACTOR SHALL PROVIDE MEANS FOR SWEEPING AND CLEANING ROAD AREAS EXPERIENCING TRACKING. IF OFF-SITE TRACKING OCCURS ON PUBLIC ROADS, THEY SHOULD BE SWEEPED IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. DURING THE MUD SEASON IT MAY BE NECESSARY TO INCREASE THE SIZE OF STABILIZED CONSTRUCTION ENTRANCES OR PROVIDE A WHEEL WASHING STATION.
- DEBRIS AND OTHER MATERIALS:** CONTRACTOR SHALL MANAGE ALL LITTER, CONSTRUCTION DEBRIS, CONSTRUCTION CHEMICALS, AND BUILDING AND LANDSCAPING MATERIALS EXPOSED TO STORMWATER TO PREVENT MATERIALS FROM BECOMING A SOURCE OF POLLUTION.
- TRENCH OR FOUNDATION DEWATERING:** TRENCH DEWATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, SLUMPS, BASINS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL REMOVE COLLECTED WATER FROM THE PONDED AREAS, EITHER THROUGH GRAVITY OR PUMPING, IN A MANNER THAT SPREADS IT THROUGH NATURAL WOODED BUFFERS OR TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE (E.G. COFFERDAM SEDIMENT BASIN). THE CONTRACTOR SHALL AVOID PRACTICES THAT ALLOW SEDIMENT LADEN WATER FROM DEWATERING TO FLOW OVER DISTURBED AREAS OF THE PROJECT SITES. OTHER MEASURES OR METHODS MAY BE UTILIZED AS REVIEWED AND APPROVED BY THE ENGINEER AND, IF NECESSARY, THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- AUTHORIZED NON-STORMWATER DISCHARGES:** THE CONTRACTOR SHALL IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST. THEY MUST BE IDENTIFIED AND STEPS SHALL BE TAKEN TO ENSURE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENTS OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE: DISCHARGES FROM FIREFIGHTING ACTIVITY, FIRE HYDRANT FLUSHING, IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES, DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS, ROUTINE EXTERNAL BUILDING WASHDOWN (EXCLUDING PAINT REMOVAL AND USE OF DETERGENTS), PAVEMENT WASHWATER (EXCLUDING AREAS OF SPILLS OR LEAKS OF TOXIC/HAZARDOUS MATERIALS AND USE OF DETERGENTS), UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE, UNCONTAMINATED GROUNDWATER OR SPRING WATER, FOUNDATION OR FOOTING DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED, UNCONTAMINATED EXCAVATION DEWATERING, POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING, AND LANDSCAPE IRRIGATION.
- UNAUTHORIZED NON-STORMWATER DISCHARGES:** THE CONTRACTOR SHALL IDENTIFY AND PREVENT CONTAMINATION BY UNAUTHORIZED NON-STORMWATER DISCHARGES. UNAUTHORIZED STORMWATER DISCHARGES INCLUDE, BUT ARE NOT LIMITED TO, WASTEWATER FROM CONCRETE WASHOUT, FUELS OR HAZARDOUS SUBSTANCES, AND DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- ADDITIONAL REQUIREMENTS:** COMPLETION OF THE WORK WILL REQUIRE FREQUENT ACCESS TO VARIOUS PORTIONS OF THE PROJECT AREA FROM STATE AND LOCAL ROADWAYS. CONTRACTOR SHALL MONITOR PUBLIC ROADWAYS AND SHALL CLEAN PAVEMENT BY MEANS NECESSARY IN THE EVENT THAT SEDIMENT OR TRACKING IS OBSERVED. SIGNAGE SHALL BE POSTED AT INTERSECTIONS OF PROJECT ACCESS ROADS AND PUBLIC WAYS, STATING COMPANY NAME AND 24-HOUR CONTACT PHONE NUMBER.

LEGEND

---	SURVEYED PROPERTY BOUNDARY
---	APPROXIMATE ABUTTING PROPERTY BOUNDARY
----	INTERNAL PROPERTY LINE
□	STONE/CONCRETE BOUND DRILL HOLE
□	CONCRETE BOUND
○	IRON PIPE
○	IRON ROD
⊗	HYDRANT
⊗	WATER GATE/VALVE
⊗	EXISTING GAS VENT
---	EXISTING EDGE OF PAVEMENT/CONCRETE
---	EXISTING EDGE OF GRAVEL
---	EXISTING EDGE OF PATHWAY
---	EXISTING OVERHEAD ELECTRIC & POLES
---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
---	EXISTING TREELINE
---	EXISTING FENCE
---	APPROXIMATE LIMITS OF LANDFILL COVER
---	NHESP ESTIMATED & PRIORITY HABITATS
---	MASSGIS WETLANDS
---	TRC DELINEATED WETLANDS
---	NHESP POTENTIAL VERNAL POOL
---	TRC DELINEATED POTENTIAL VERNAL POOL
---	MASSGIS PERENNIAL STREAM
---	50' BUFFER
---	100' BUFFER
---	200' PERENNIAL STREAM BUFFER
---	100-YEAR FLOOD ZONE LIMIT
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	PROPOSED TREE LINE
---	PROPOSED CHAIN LINK FENCE
---	PROPOSED OVERHEAD ELECTRIC LINE AND POLE
---	PROPOSED MV UNDERGROUND ELECTRIC LINE
---	PROPOSED FIXED-TILT ARRAY RACKING
---	PROPOSED GRAVEL ACCESS/PAD
---	LIMITS OF DISTURBANCE
---	SEDIMENT BARRIER

ZONING REQUIREMENTS

ZONING DISTRICTS SUMMARY TABLE								
GENERAL ZONING DISTRICT					OVERLAY ZONING DISTRICTS			
AGRICULTURAL-RESIDENTIAL DISTRICT A (AR-1)					GROUNDWATER PROTECTION DISTRICT ZONES II AND III			
DIMENSIONAL STANDARDS								
DISTRICT	MIN. FRONT YARD SETBACK		MIN. SIDE YARD SETBACK		MIN. REAR YARD SETBACK		BUILDING MAX. HEIGHT	
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
AGRICULTURAL-RESIDENTIAL DISTRICT (AR-1) AND SOLAR SETBACKS	50'	90'	50'	65'	50'	125'	35'	12'

PROJECT SCHEDULE

SPECIFICS OF HOW WORK IS TO BE COMPLETED SHALL ALSO BE BASED ON ENVIRONMENTAL CONSIDERATIONS ASSOCIATED WITH SEASONAL CHANGES. THE FOLLOWING DATES ARE PROVIDED TO ESTABLISH A GENERAL GUIDELINE FOR THESE SEASONS:

- WINTER: NOVEMBER 1 TO MARCH 19
- MUD SEASON: MARCH 20 TO APRIL 30
- SPRING: MAY 1 TO JUNE 21
- SUMMER: JUNE 22 TO SEPTEMBER 21
- FALL: SEPTEMBER 22 TO OCTOBER 31

FERTILIZER AND LIME REQUIREMENTS

IN GENERAL, FERTILIZER AND LIME APPLICATION RATES WILL FOLLOW THE GUIDELINES IDENTIFIED BELOW UNLESS SITE SPECIFIC SOIL TESTS IDENTIFY THE NEED FOR ALTERNATIVE FERTILIZER/LIME APPLICATION RATES. FERTILIZER WILL BE APPLIED TO UPLAND AREAS PRIOR TO SEEDING AT A RATE OF 800 POUNDS PER ACRE USING 10-0-0 (N-P205-K20) OR EQUIVALENT. GROUND LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) WILL BE APPLIED AT A RATE OF 3 TONS PER ACRE. AN EQUIVALENT MIXTURE OF FERTILIZER AND LIME MAY BE APPLIED USING THE HYDROSEEDING METHOD. NO LIME OR FERTILIZER WILL BE APPLIED TO WETLANDS.

MULCH ANCHORING REQUIREMENTS

ON SLOPES GREATER THAN 3 PERCENT, STRAW MULCH WILL BE FIRMLY ANCHORED INTO THE SOIL UTILIZING ONE OF THE FOLLOWING METHODS:
- CRIMPING WITH A STRAIGHT OR NOTCHED MULCH CRIMPING TOOL (FARM DISCS WILL NOT BE ALLOWED);
- TRACK WALKING WITH DEEP-CLEATED EQUIPMENT OPERATING UP AND DOWN THE SLOPE (MULCH CRIMPED PERPENDICULAR TO THE SLOPE) ON SLOPES <25 PERCENT;
- APPLICATION OF MULCH NETTING;
- APPLICATION OF 500 LB./ACRE OF WOOD FIBER MULCH OVER STRAWHAY MULCH; AND
- COMMERCIALLY AVAILABLE TACKIFIERS (EXCEPT WITHIN 100 FEET OF WATERBODIES OR WETLANDS).

SOIL MATERIAL SPECIFICATIONS

PROPOSED GRADES SHALL BE ACHIEVED BY PLACING FILL MATERIAL FOLLOWED BY A MINIMUM 3-INCH TOPSOIL LAYER AS SPECIFIED BELOW:
FILL MATERIAL
SHALL CONSIST OF EARTH FREE FROM FROZEN MATERIAL, DEBRIS, AND OTHER DELETERIOUS MATERIAL. THE MOISTURE CONTENT SHALL BE SUFFICIENT TO PROVIDE ADEQUATE COMPACTION. MATERIAL SHALL HAVE A MAXIMUM PARTICLE SIZE OF 3 INCHES IN DIAMETER. A MIXTURE OF STREET SWEEPINGS AND COMPOST MAY BE USED AS THE FILL MATERIAL AS APPROVED BY MASSDEP IN THE TOWN'S BENEFICIAL USE DETERMINATION PERMIT.

TOPSOIL
TOPSOIL SHALL BE STRIPPED WITHIN THE CONFINES OF THE SHADED AREA INDICATED ON THE SITE GRADING PLAN AND REUSED FOR THE 3-INCH TOPSOIL LAYER PLACED OVER THE FILL MATERIAL. IF THE QUANTITY OF TOPSOIL ON-SITE IS INSUFFICIENT, OR DOES NOT MEET THE REQUIREMENTS OF THIS SPECIFICATION, ADDITIONAL TOPSOIL MATERIAL SHALL BE PROVIDED FROM AN OFF-SITE SOURCE. MATERIAL SHALL BE FRIABLE, FERTILE, LOAMY SOIL CONTAINING AN AMOUNT OF ORGANIC MATTER NORMAL TO THE REGION, CAPABLE OF SUSTAINING HEALTHY PLANT LIFE. SHALL BE FREE FROM REFUSE, SUBSOILS, ROOTS, WEEDS, STUMPS, STONES LARGER THAN 2 INCHES, MATERIALS TOXIC TO PLANT GROWTH, AND FOREIGN OBJECTS.

SEED AND MULCH SPECIFICATIONS



SEED MIX SPECIFICATIONS			
SEED MIX NAME		SEED MIX COMPONENTS	LB./ACRE ¹
TEMPORARY SEED MIX		ANNUAL RYEGRASS	40
PERMANENT SEED MIXES			
UPLANDS SEED MIX		CREEPING RED FESCUE 34% SHEEP FESCUE 33% HARD FESCUE 'BEACON' 10% HARD FESCUE 'RHINO' 5% BLUE FESCUE 'BLUE RAY' 5% KENTUCKY BLUEGRASS 'ARGYLE' 5% KENTUCKY BLUEGRASS 'SHAMROCK' 5% AUTUMN BENTGRASS, ALBANY PINE 3% BUSH-NY ECOTYPE (OR APPROVED EQUAL)	262
SUPPLEMENTAL WINTER SEED MIX ²		WINTER RYEGRASS	120
NOTES: 1. INCREASE SEEDING RATES 10% WHEN HYDROSEEDING 2. WINTER RYE WILL BE ADDED TO UPLANDS SEED MIX AT A RATE OF 120 LB./ACRE BETWEEN OCTOBER 1 AND APRIL 15			

SUMMARY OF TEMPORARY AND PERMANENT MULCH APPLICATION REQUIREMENTS			
CONDITION	TIMING	MULCH TYPE ²	APPLICATION RATES ³
TEMPORARY			
INACTIVE AREAS	IF NO ACTIVITY IN EXPOSED AREAS FOR 7 DAYS, OR PRIOR TO A STORM EVENT	STRAW MULCH OR WOOD FIBER MULCH OR EROSION CONTROL MIX	2 TONS/ACRE 1 TON/ACRE 2" THICK OVER AREA
ALL DISTURBED AREAS OF THE CONSTRUCTION WORKSPACE	APPLY MULCH TO ALL EXPOSED AREAS IF NO ACTIVITY OCCURS WITHIN 30 DAYS. APPLY MULCH AND TEMPORARY SEEDING SOONER WHEN IT CAN BE ANTICIPATED THAT ACTIVITY IS NOT GOING TO OCCUR WITHIN 30 DAYS.	STRAW MULCH OR WOOD FIBER MULCH	2 TONS/ACRE 1 TON/ACRE ³
ALL WORK AREAS EXPOSED ARE TO BE MULCHED DAILY EACH TIME SOIL IS DISTURBED ⁴	NOVEMBER 1 - APRIL 15	STRAW MULCH OR WOOD FIBER MULCH	4 TONS/ACRE 2 TONS/ACRE
PERMANENT			
ON ALL EXPOSED AREAS AFTER SEEDING TO STABILIZE THE SOIL SURFACE	PERMANENT GRASS AND/OR LEGUME SEEDING COVERED BY STRAW MULCH ON ALL AREAS THAT HAVE BEEN RESTORED TO FINAL GRADE. THIS DOES NOT APPLY TO AREAS STABILIZED BY OTHER MEANS SUCH AS JULIE MATTING OR PERMANENT EROSION CONTROL MIX.	CRIMPED STRAW MULCH OR PAPER MULCH OR WOOD FIBER MULCH	2 TONS/ACRE 1500 LB./ACRE ⁴ 1 TON/ACRE
NOTES: 1. IN ALL CASES, SUFFICIENT MULCH SHALL BE APPLIED SUCH THAT NO SOIL IS VISIBLE THROUGH THE MULCH. 2. DOUBLE RATE OF WOOD FIBER MULCH WHEN USED IN OR ADJACENT TO CRITICAL AREAS. INCREASE MULCH RATE BY HALF UNDER SOLAR ARRAY DRIP EDGE. 3. STRAW, HAY, OR HYDROMULCH (WOOD FIBER OR PAPER MULCH AS APPROPRIATE) SHALL PROVIDE MINIMUM 90 PERCENT GROUND COVERAGE. 4. PAPER MULCH IS ACCEPTABLE FOR USE DURING THE GROWING SEASON. ON SLOPES >30 PERCENT AND IN AREAS WHERE VEGETATION HAS NOT ESTABLISHED WELL, ADDITIONAL HAY MULCH WILL BE ADDED AS A WINTERIZING MEASURE. 5. MULCH MAY NOT BE SPREAD ON TOP OF SNOW.			

SUMMARY OF SEEDING REQUIREMENTS		
CONDITION	TIMING ^{1,2}	SEED MIX
TEMPORARY SEEDING ³	TEMPORARY SEED BETWEEN APRIL 15 AND OCTOBER 1 ONLY. DISTURBED AREAS OR SOIL STOCKPILES WILL BE SEEDD IMMEDIATELY IF FURTHER DISTURBANCE IS NOT EXPECTED FOR 30 DAYS OR MORE.	ANNUAL RYEGRASS
PERMANENT SEEDING ^{3,4}		
UPLAND PORTIONS OF THE CONSTRUCTION AREA	DISTURBED AREA WILL BE SEEDD WITHIN 7 DAYS OF FINAL GRADING.	UPLANDS SEED MIX
SLOPES > 3:1	DISTURBED AREA WILL BE SEEDD IMMEDIATELY AFTER SEEDBED PREPARATION.	UPLANDS SEED MIX
WINTER DORMANT SEEDING	DORMANT SEED BETWEEN OCTOBER 1 AND APRIL 15 ONLY. NO SEEDING WILL OCCUR IF SNOW DEPTHS EXCEED 1 INCH.	UPLANDS SEED MIX PLUS WINTER RYEGRASS
NOTES: 1. WEATHER CONDITIONS PERMITTING. 2. AREAS THAT DO NOT SUCCESSFULLY REVEGETATE WITHIN APPROPRIATE PERIOD OF TIME WILL BE RESEEDD AS NECESSARY. 3. LOOSER COMPACTED SOIL TO A MINIMUM DEPTH OF 4 INCHES. 4. TOP DRESS WITH 4 TO 6 INCHES LOAM, AS NEEDED.		

PERMITTING

NOT FOR CONSTRUCTION

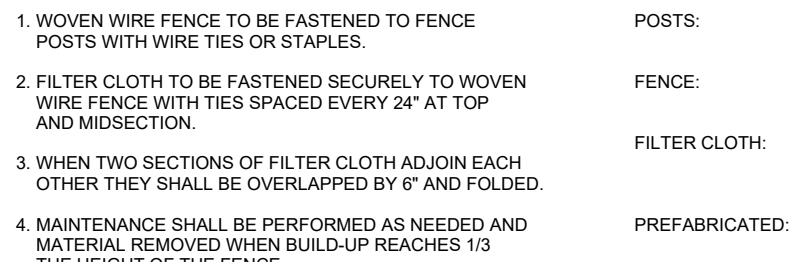
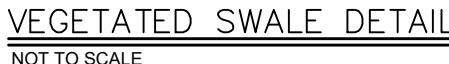
SEAL:		PROFESSIONAL ENGINEER:		
		MIKE PLUMB		
DATE:		JULY 16, 2021		
3	TRC	7/16/2021	REVISION 3 PER CONSERVATION COMMISSION COMMENTS	MP
2	TRC	6/29/2021	REVISION 2 PER CONSERVATION COMMISSION COMMENTS	MP
1	TRC	5/17/2021	REVISED PER CONSERVATION COMMISSION COMMENTS	MP
0	TRC	3/8/2021	ISSUED FOR PERMITTING	MP
NO.	BY	DATE	REVISION	APPD.
PROJECT: SCS MARSHALL 012252 HOLLISTON, LLC PROPOSED 2.5 MW-AC SOLAR ARRAY MARSHALL STREET, HOLLISTON, MA				
TITLE: GENERAL NOTES & LEGEND				
DRAWN BY:		ARD	PROJ. NO.:	343578
CHECKED BY:		ASW	G-2	
APPROVED BY:		MP		
DATE:		JULY 2021		
		650 Suffolk Street Suite 200 Lowell, MA 01854 Phone: 978.970.5600		
FILE NO.:		Holliston_G-SHEETS.dwg		

PROJECT DESCRIPTION

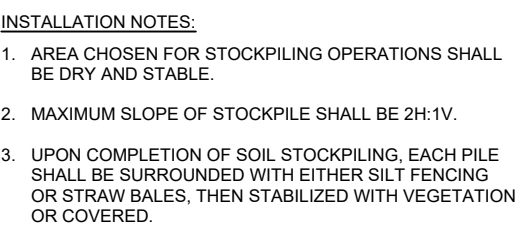
CONSTRUCTION SEQUENCE

- ## DEWATERING NOTES

-



NOT TO SCALE

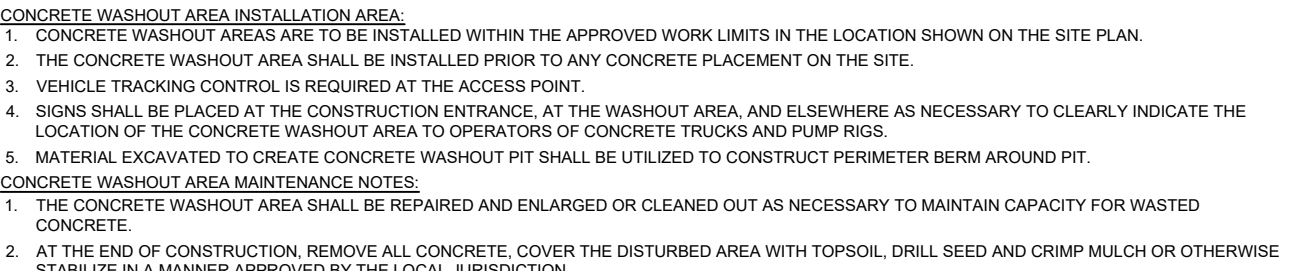
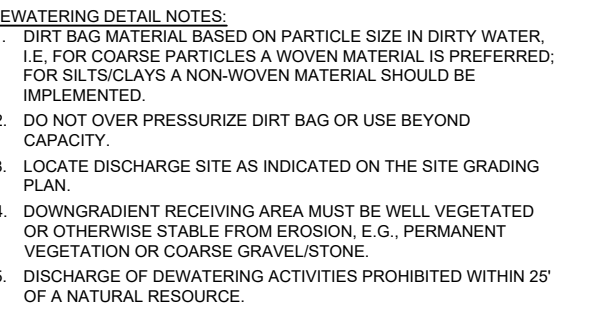


NOT TO SCALE

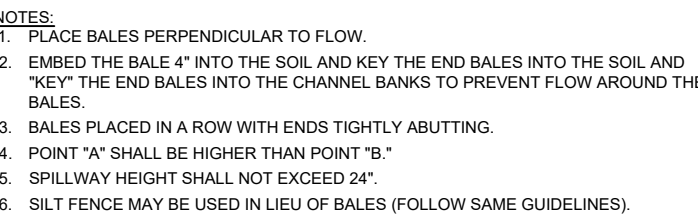
NOT TO SCALE



NOT TO SCALE



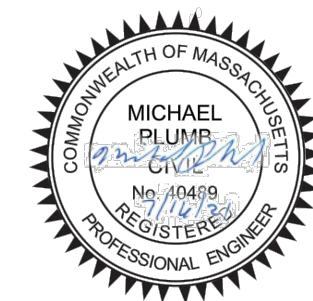
NOT TO SCALE



NOT TO SCALE

- NOTES:**
1. PLACE BALES PERPENDICULAR TO FLOW.
 2. EMBED THE BALE 4" INTO THE SOIL AND KEY THE END BALES INTO THE SOIL AND "KEY" THE END BALES INTO THE CHANNEL BANKS TO PREVENT FLOW AROUND THE BALES.
 3. BALES PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING.
 4. POINT "A" SHALL BE HIGHER THAN POINT "B."
 5. SPILLWAY HEIGHT SHALL NOT EXCEED 24".
 6. SILT FENCE MAY BE USED IN LIEU OF BALES (FOLLOW SAME GUIDELINES).

NOT FOR CONSTRUCTION

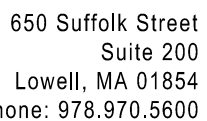


MIKE PLUME

DATE: JULY 16, 202

PROJECT: **SCS MARSHALL 012252 HOLLISTON, LLC
PROPOSED 2.5 MW-AC SOLAR ARRAY
MARSHALL STREET, HOLLISTON, MA**

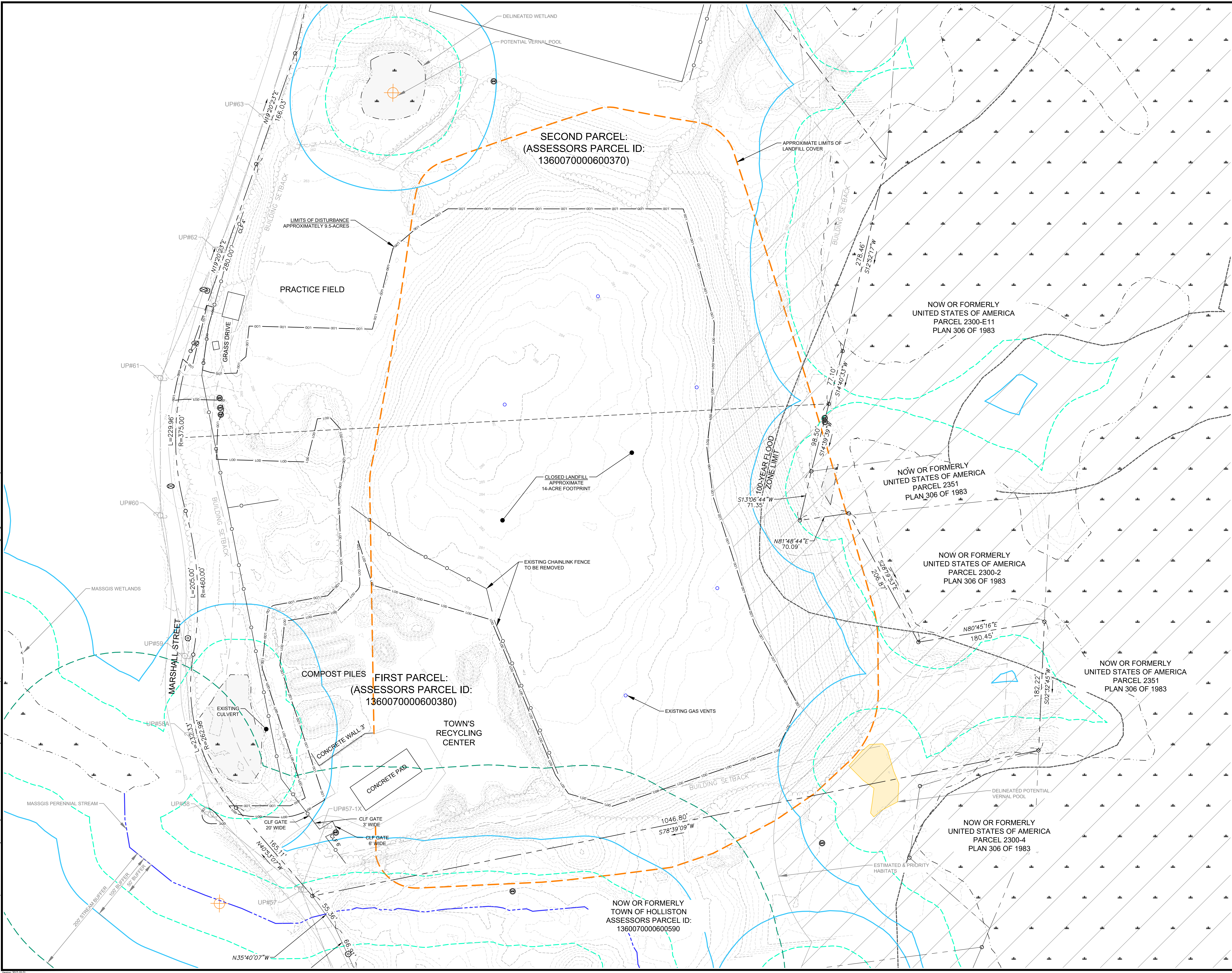
DRAWN BY:	ARD	PROJ. NO.:	343578
CHECKED BY:	ASW	G-3	
APPROVED BY:	MP		
DATE:	JULY 2021		



650 Suffolk Street
Suite 200
Lowell, MA 01854
Phone: 978.970.5600

FILE NO.: Holliston G-SHEETS.dwg

2438 --USER: A:\divisions --ATTACHED: REF: 34578, NATURAL RESOURCES, 34578\ARCS\SOILS --ATTACHED IMAGES: DISK4
DRAWING NAME: \\lowell-vip\Environmental\Projects\34378 - Holliston So Systems Landfill\FCUP Application\10-DWG\Holliston_PR_Cond_Plans_Working.dwg --- PLOT DATE: July 16, 2021 - 3:23PM --- LAYOUT: C-1
Version: 2017.0.21



PARCEL NOTES

- PROJECT PROPERTY BOUNDARIES AND SITE TOPOGRAPHIC INFORMATION ARE BASE ON INFORMATION PROVIDED BY MERIDIAN ASSOCIATES, INC. IN A PLAN ENTITLED "MARSHALL STREET ALTA/NSPS LAND TITLE SURVEY" DATED JUNE12, 2020. SURVEY INFORMATION OBTAINED FROM A COMBINATION OF TOWN OF HOLLISTON TAX MAPS, FIELD SURVEY AND DEED RESEARCH. BOUNDARY SURVEY PLANS SEALED BY A LICENSED PROFESSIONAL LAND SURVEYOR ARE PROVIDED UNDER SEPARATE COVER. REFER TO BOUNDARY SURVEY PLAN FOR COMPLETE NOTES AND SURVEY LIMITATIONS.
- RECORD OWNERS:
 - FIRST PARCEL - TOWN OF HOLLISTON
 - SECOND PARCEL - TOWN OF HOLLISTON
- PARCEL TAX MAP REFERENCE:
 - FIRST PARCEL - MAP 7, LOT 38
 - SECOND PARCEL - MAP 7, LOT 37
- AREA
 - FIRST PARCEL - 14.13 ACRES
 - SECOND PARCEL - 16.60 ACRES

0 60 120 180 240
SCALE IN FEET

PERMITTING

NOT FOR CONSTRUCTION

PROFESSIONAL ENGINEER:
MIKE PLUMB
DATE:
JULY 16, 2021

3	TRC	7/16/2021	REVISION 3 PER CONSERVATION COMMISSION COMMENTS	MP
2	TRC	6/28/2021	REVISION 2 PER CONSERVATION COMMISSION COMMENTS	MP
1	TRC	5/17/2021	REVISED PER CONSERVATION COMMISSION COMMENTS	MP
0	TRC	3/8/2021	ISSUED FOR PERMITTING	MP
NO.	BY	DATE	REVISION	APPD.

PROJECT: SCS MARSHALL 012252 HOLLISTON, LLC
PROPOSED 2.5 MW-AC SOLAR ARRAY
MARSHALL STREET, HOLLISTON, MA

TITLE: EXISTING CONDITIONS PLAN

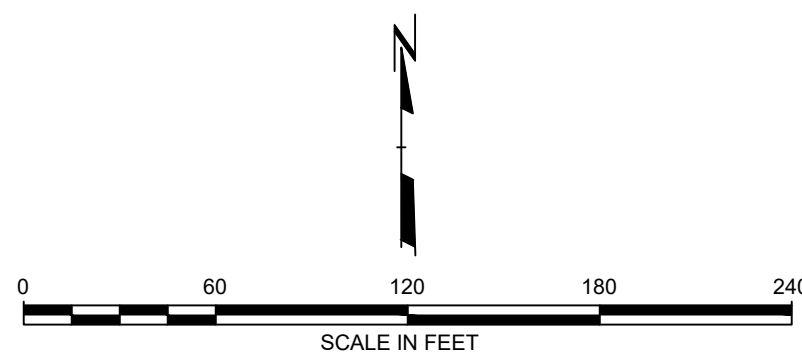
DRAWN BY:	ARD	PROJ. NO.:	343578
CHECKED BY:	ASW		
APPROVED BY:	MP		
DATE:	JULY 2021		

650 Suffolk Street
Suite 200
Lowell, MA 01854
Phone: 978.970.5600

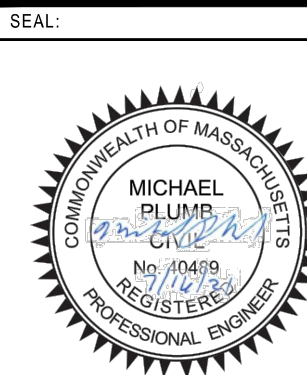
FILE NO.: Holliston_PR_Cond_Plans_Working.dwg

C-1

1. SOLAR ARRAY CONSISTS OF 314 MODULE FRAMES WITH A TOTAL OF 8.164 PANELS.



PERMITTING
NOT FOR CONSTRUCTION



PROFESSIONAL ENGINEER:
MIKE PLUMB

DATE:
JULY 16, 2021

[illegible]

PROJECT: **SCS MARSHALL 012252 HOLLISTON, LLC
PROPOSED 2.5 MW-AC SOLAR ARRAY
MARSHALL STREET, HOLLISTON, MA**

OVERALL SITE LAYOUT PLAN

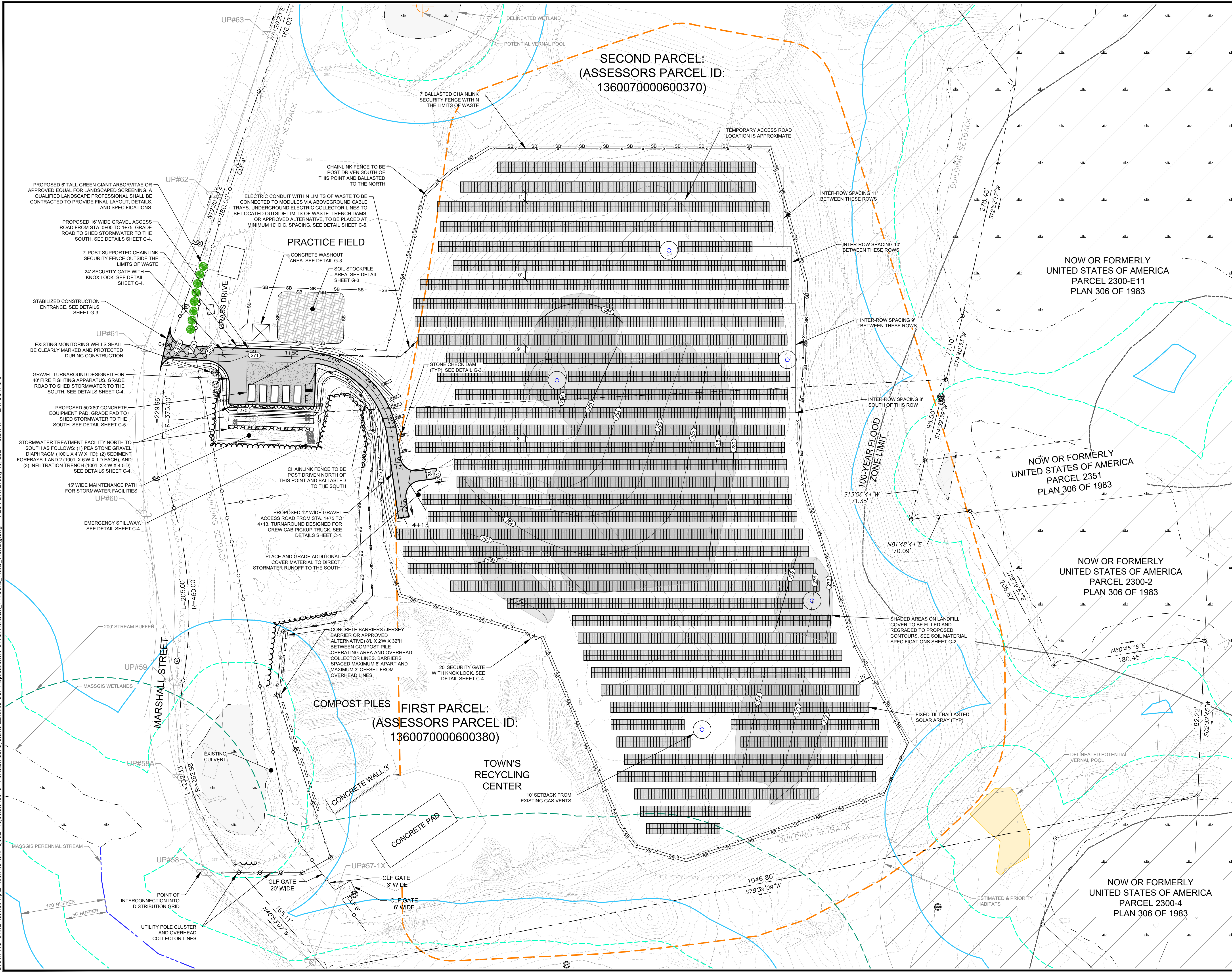
DRAWN BY:	ARD	PROJ. NO.:	343578
CHECKED BY:	ASW	C-2	
APPROVED BY:	MP		
DATE:	JULY 2021		



650 Suffolk Street
Suite 200
Lowell, MA 01854
Phone: 978.970.5600

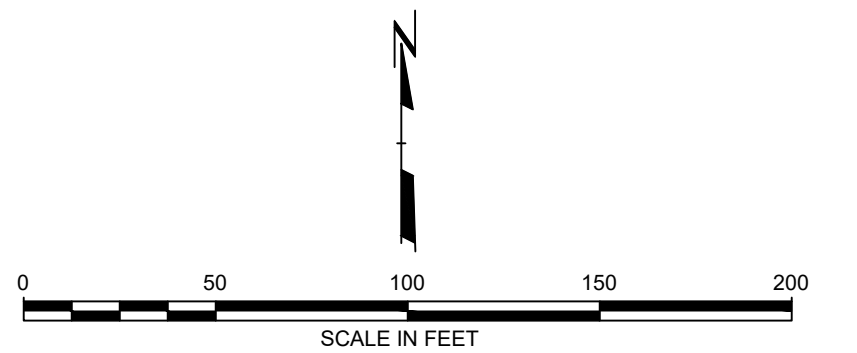
FILE NO.: Holliston PR Cond Plans Working.dwg

2438 -- USER: d:\division -- ATTACHED: REFS: 34578, NATURAL RESOURCES: 34578, SOLS: -- ATTACHED: IMAGES: DISHW
DRAWING NAME: \\lowell\p\Environmental\Projects\43578 - Holliston So Systems Landfill\FCUP Application\10-DWG\Holliston_PR Cond_Plane_Working.dwg --- PLOT DATE: July 16, 2021 - 3:21PM --- LAYOUT: C-3
Version: 2017-10-21



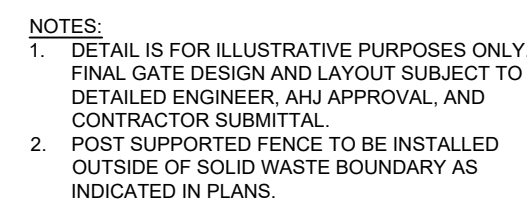
NOTES

1. WITHIN THE LIMITS OF WASTE, THERE SHALL BE NO COVER SOIL REMOVAL EXCEPT FOR A THIN ORGANIC LAYER WHERE GROUNDING IS NECESSARY BELOW ARRAY BALLASTS AND STRIPING TOPSOIL AT A DEPTH OF NO GREATER THAN 3 INCHES WITHIN THE SHADED AREAS TO BE FILLED AND REGARDED TO PROMOTE POSITIVE DRAINAGE ON THE LANDFILL COVER. SOLAR ARRAY INSTALLATION SHALL BE PHASED SO THAT ARRAYS AT THE FAR NORTHERN AND SOUTHERN EXTENTS OF THE LANDFILL ARE INSTALLED INITIALLY, FOLLOWED BY THE ARRAYS IN THE CENTER. THE TEMPORARY ACCESS ROAD SHALL BE REMOVED IN PORTIONS AS THE SOLAR ARRAY INSTALLATION PROGRESSES TO THE CENTER OF THE LANDFILL. THE UNDERLYING LANDFILL COVER SHALL BE RESTORED AS NEEDED.
2. PROPOSED 7' CHAINLINK SECURITY FENCE SHALL BE POST SUPPORTED OUTSIDE THE LIMITS OF WASTE AND BALLAST SUPPORT WITHIN THE LIMITS OF WASTE AS INDICATED IN THE PLAN.
3. SOIL STOCKPILES, CONCRETE WASHOUT, AND EQUIPMENT STAGING SHALL BE LOCATED OUTSIDE THE LIMITS OF WASTE. SPECIFIC LOCATIONS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION AND AS DIRECTED BY PROJECT SITE OWNER TO ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT INTERFERE WITH OTHER SITE ACTIVITIES.
4. TEST PITS SHALL BE COMPLETED, AS DIRECTED BY THE ENGINEER, AT LOCATIONS WHERE ABOVEGROUND FACILITIES TRANSITION TO UNDERGROUND (I.E., BALLASTED FENCE CHANGES TO POST-SUPPORTED FENCE, ABOVEGROUND TO UNDERGROUND ELECTRIC CONDUIT) TO CONFIRM THAT UNDERGROUND FACILITIES ARE LOCATED OUTSIDE THE LIMITS OF WASTE.
5. THE MAXIMUM ACCESS ROAD EMBANKMENT HEIGHT IS UNDER 10' AND IS GRADED TO 3H:1V. GEOTECHNICAL ENGINEER SHALL ASSESS AND FINALIZE EMBANKMENT DESIGN PRIOR TO CONSTRUCTION.

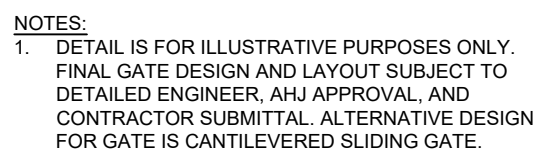


PERMITTING
NOT FOR CONSTRUCTION

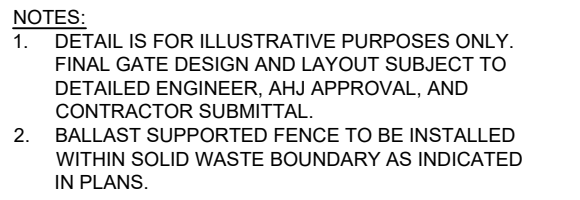
SEAL:		PROFESSIONAL ENGINEER:		
		MIKE PLUMB		
DATE:		JULY 16, 2021		
3	TRC	7/16/2021	REVISION 3 PER CONSERVATION COMMISSION COMMENTS	MP
2	TRC	6/28/2021	REVISION 2 PER CONSERVATION COMMISSION COMMENTS	MP
1	TRC	5/17/2021	REVISED PER CONSERVATION COMMISSION COMMENTS	MP
0	TRC	3/8/2021	ISSUED FOR PERMITTING	MP
NO.	BY	DATE	REVISION	APPD.
PROJECT: SCS MARSHALL 012252 HOLLISTON, LLC PROPOSED 2.5 MW-AC SOLAR ARRAY MARSHALL STREET, HOLLISTON, MA				
TITLE: SITE GRADING & DRAINAGE PLAN				
DRAWN BY: ARD		PROJ. NO.: 343578		
CHECKED BY: ASW		C-3		
APPROVED BY: MP				
DATE: JULY 2021				
		650 Suffolk Street Suite 200 Lowell, MA 01854 Phone: 978.970.5600		
FILE NO.:		Holliston_PR Cond_Plane_Working.dwg		



CHAINLINK FENCE DETAIL – POST SUPPORTED
NOT TO SCALE

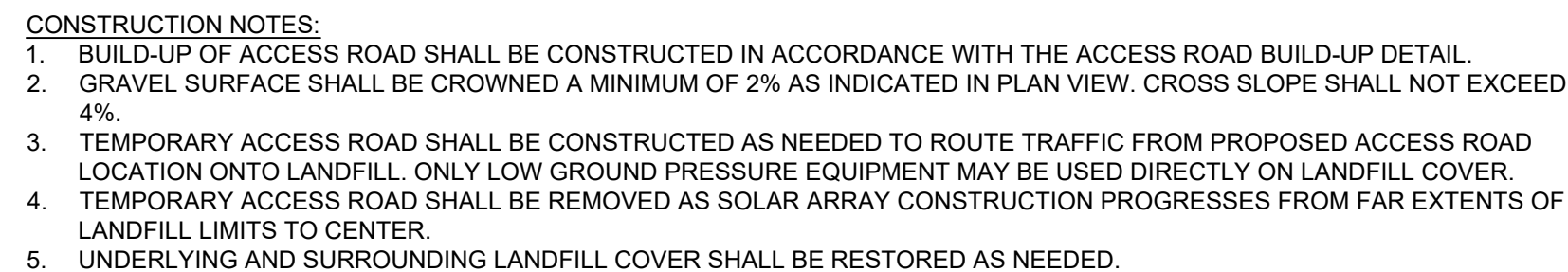


VEHICULAR GATE DETAIL
NOT TO SCALE

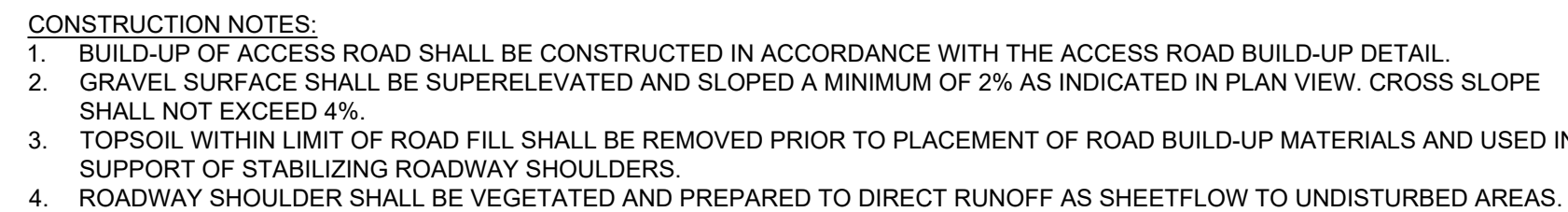


CHAINLINK FENCE DETAIL – BALLAST SUPPORTED

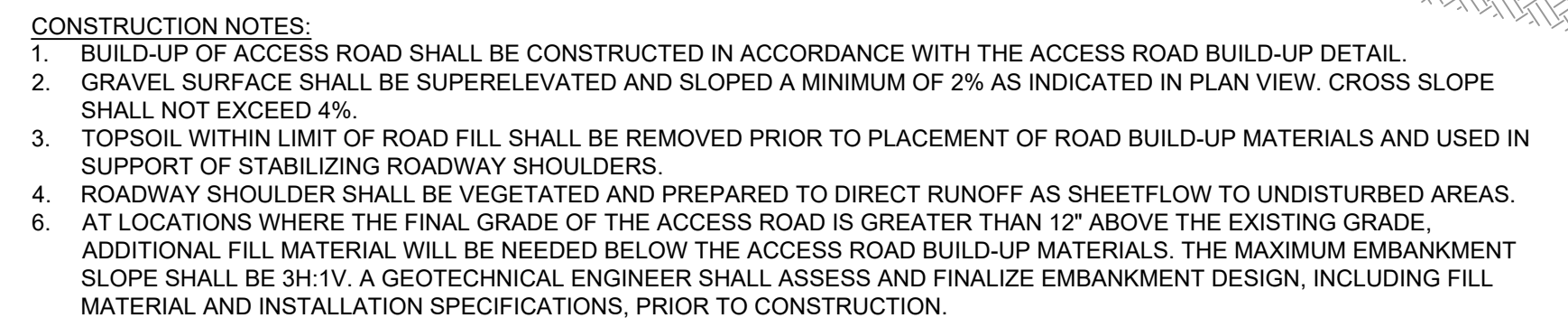
NOT TO SCALE



TEMPORARY ACCESS ROAD DETAIL
NOT TO SCALE

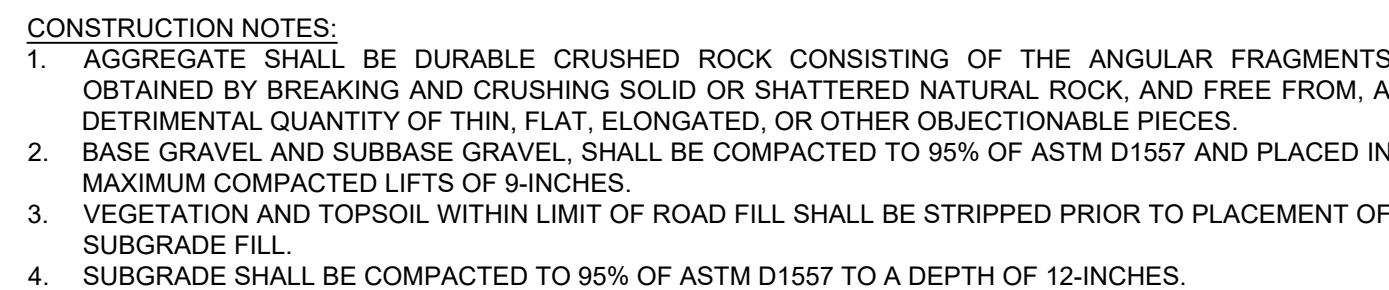


PROPOSED ACCESS ROAD DETAIL
NOT TO SCALE

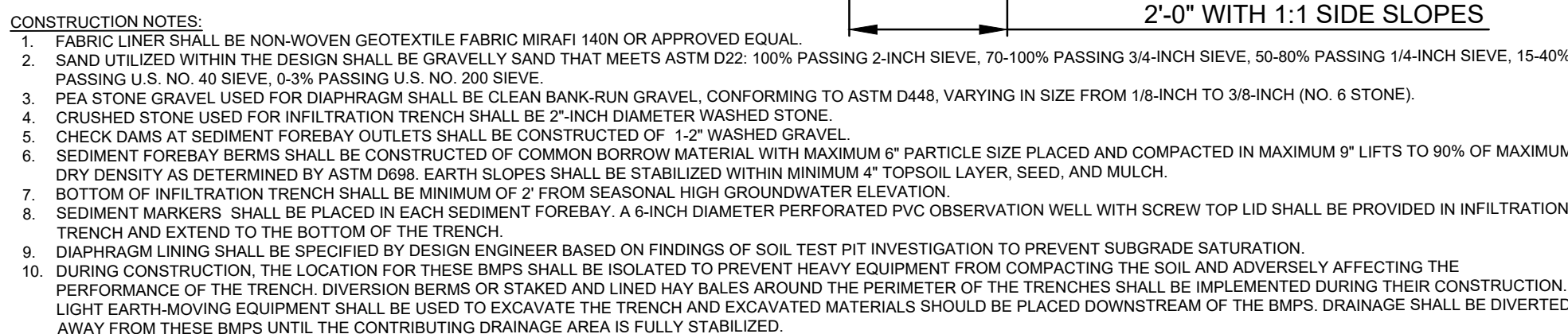


PROPOSED ACCESS ROAD WITH EMBANKMENT DETAIL

NOT TO SCALE




ACCESS ROAD BUILD-UP
NOT TO SCALE



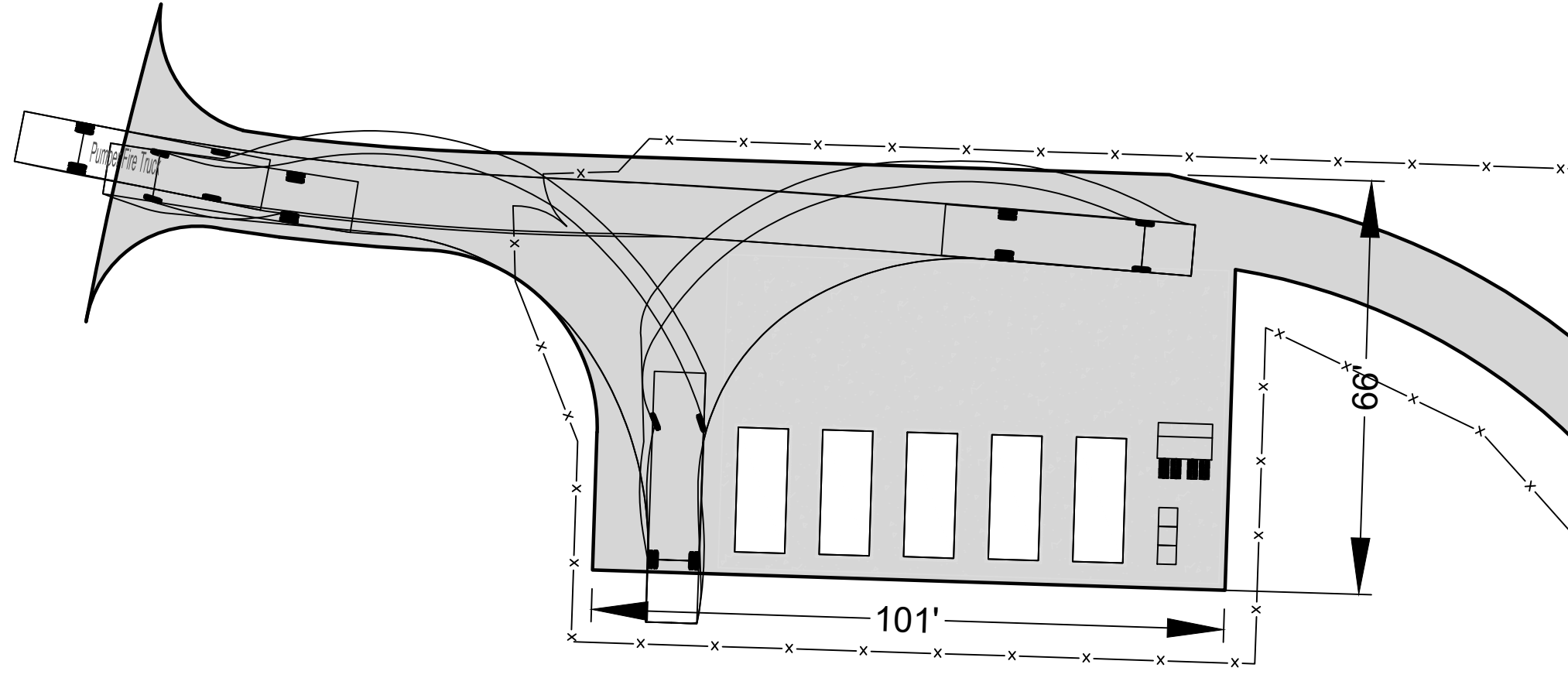
STORMWATER PRETREATMENT AND INFILTRATION TRENCH DETAIL



EMERGENCY SPILLWAY DETAIL
NOT TO SCALE

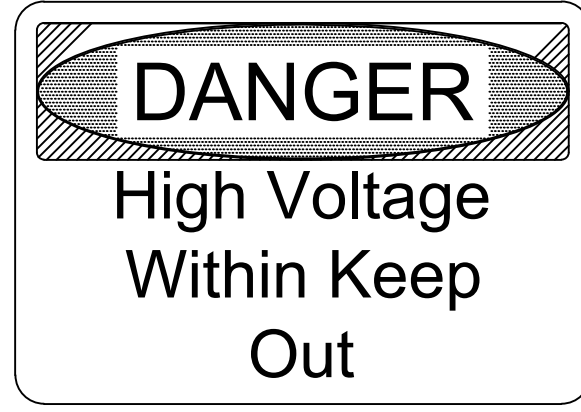
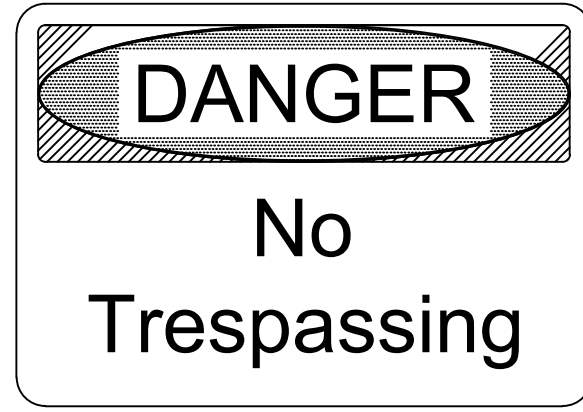
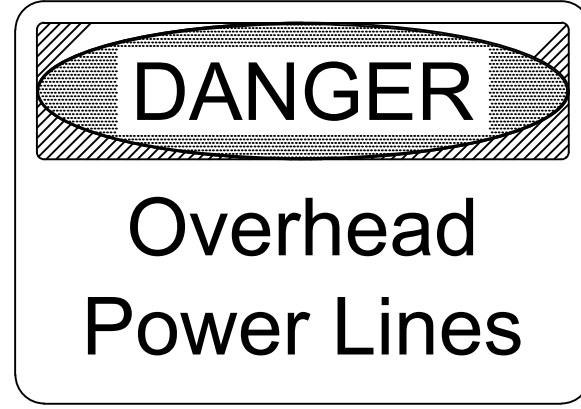
<div style="border: 2px solid black; padding: 5px; margin: 0 auto; width: 80%;"> <h1 style="margin: 0;">PERMITTING</h1> <h2 style="margin: 0;">NOT FOR CONSTRUCTION</h2> </div>																												
		PROFESSIONAL ENGINEER: <div style="border-bottom: 1px solid black; padding-bottom: 5px;">MIKE PLUMB</div>																										
DATE: <div style="border-bottom: 1px solid black; padding-bottom: 5px;">JULY 16, 2021</div>																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">3</td> <td style="width: 10%; text-align: center;">TRC</td> <td style="width: 20%; text-align: center;">7/16/2021</td> <td style="width: 60%;">REVISION 3 PER CONSERVATION COMMISSION COMMENTS</td> <td style="width: 5%; text-align: center;">MP</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">TRC</td> <td style="text-align: center;">6/29/2021</td> <td>REVISION 2 PER CONSERVATION COMMISSION COMMENTS</td> <td style="text-align: center;">MP</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">TRC</td> <td style="text-align: center;">5/17/2021</td> <td>REVISED PER CONSERVATION COMMISSION COMMENTS</td> <td style="text-align: center;">MP</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">TRC</td> <td style="text-align: center;">3/8/2021</td> <td>ISSUED FOR PERMITTING</td> <td style="text-align: center;">MP</td> </tr> <tr> <td colspan="3" style="text-align: center;">NO. BY DATE</td> <td style="text-align: center;">REVISION</td> <td style="text-align: center;">APPROVED</td> </tr> </table>				3	TRC	7/16/2021	REVISION 3 PER CONSERVATION COMMISSION COMMENTS	MP	2	TRC	6/29/2021	REVISION 2 PER CONSERVATION COMMISSION COMMENTS	MP	1	TRC	5/17/2021	REVISED PER CONSERVATION COMMISSION COMMENTS	MP	0	TRC	3/8/2021	ISSUED FOR PERMITTING	MP	NO. BY DATE			REVISION	APPROVED
3	TRC	7/16/2021	REVISION 3 PER CONSERVATION COMMISSION COMMENTS	MP																								
2	TRC	6/29/2021	REVISION 2 PER CONSERVATION COMMISSION COMMENTS	MP																								
1	TRC	5/17/2021	REVISED PER CONSERVATION COMMISSION COMMENTS	MP																								
0	TRC	3/8/2021	ISSUED FOR PERMITTING	MP																								
NO. BY DATE			REVISION	APPROVED																								
PROJECT: SCS MARSHALL 012252 HOLLISTON, LLC PROPOSED 2.5 MW-AC SOLAR ARRAY MARSHALL STREET, HOLLISTON, MA																												
TITLE: <div style="text-align: center; font-weight: bold; font-size: 1.2em;">CIVIL CONSTRUCTION DETAILS</div>																												
DRAWN BY: ARD		PROJ. NO.: 34357																										
CHECKED BY: ASW		C-4																										
APPROVED BY: MP																												
DATE: JULY 2021																												
 <div style="font-size: 4em; font-weight: bold; margin-left: 10px;">TRC</div>		650 Suffolk Street Suite 200 Lowell, MA 01854 Phone: 978.970.5600																										
FILE NO.:		Holliston, Tr. d. v.																										

2408 -- USER: Addition -- ATTACHED: REF: -- ATTACHED: IMAGES: DigSafe
DRAWING NAME: Lowell-10-Environmental-Projects\Projects\43578 - Holliston Solar Systems Landfill\PCUP Application\10-DWG\Holliston_DT.dwg --- PLOT DATE: July 16, 2021 - 3:30PM --- LAYOUT: C-5
Version: 2017-10-21



NOTES:
1. SWEEP VEHICLE PATH WAS CREATED WITH
A NCHRP 659 PUMPER FIRE TRUCK, 40'
LONG BY 8.167' WIDE.

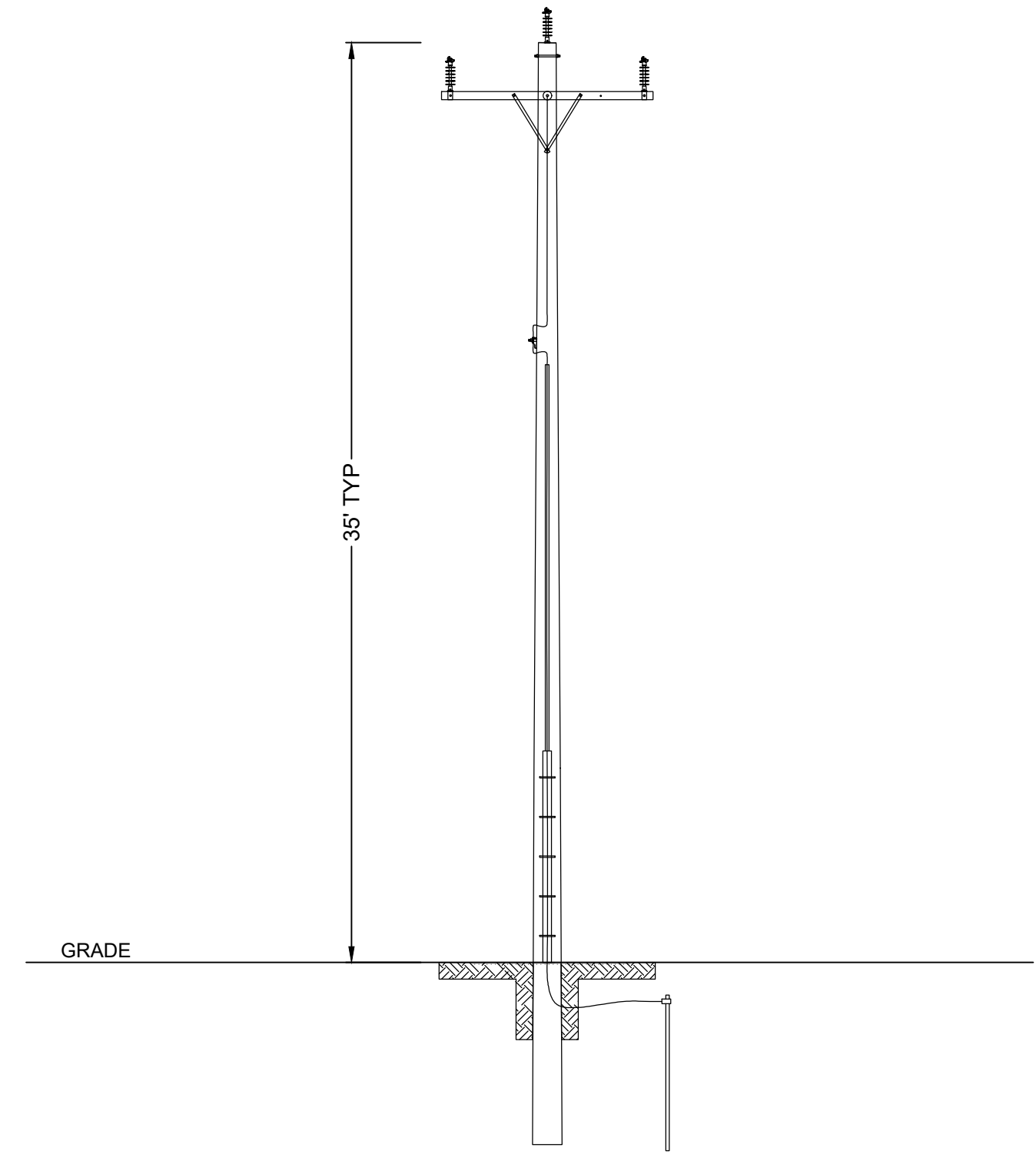
EMERGENCY VEHICLE TURNING EXHIBIT
NOT TO SCALE



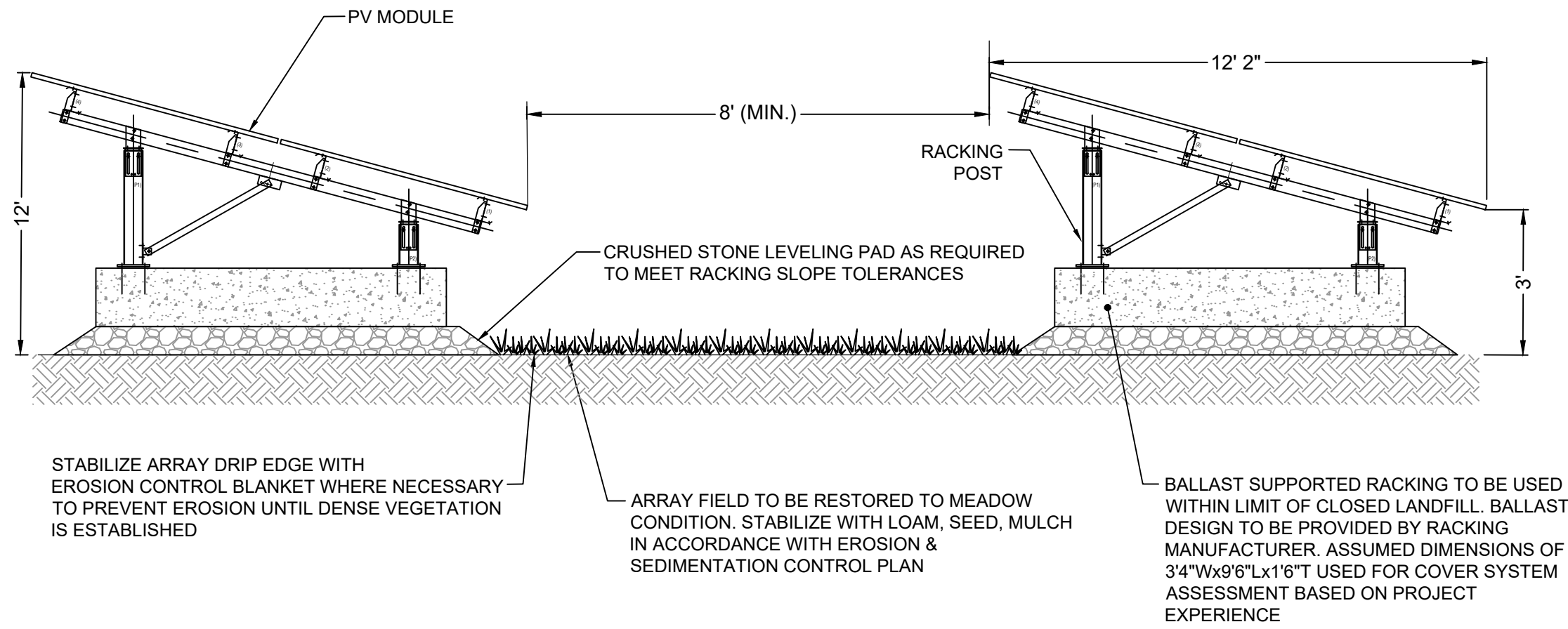
NOTES

1. NO PARKING SIGN SHALL BE POSTED AT EQUIPMENT PAD ENTRANCE AND IN FRONT OF ANY GATES. OVERHEAD POWER LINES SIGN SHALL BE POSTED ON EACH UTILITY POLE WITHIN TRANSFER STATION AREA, UNLESS OTHERWISE SPECIFIED BY SITE OWNER. OTHER SIGNS SHALL BE PLACED ON GATES AND ALONG PERIMETER FENCING.
2. SIGNS SHALL CONFORM TO THE 2013 OSHA AND ANSI REQUIREMENTS.
3. SIGNS SHALL BE 20" WIDE BY 14" HIGH.
4. SIGNS SHALL HAVE A MOUNTING HEIGHT OF BETWEEN 45 TO 66 INCHES.
5. SIGN PANELS SHALL BE 10 GAUGE ALUMINUM WITH HIGH VISIBILITY REFLECTIVE SHEETING.
6. SIGNAGE SHALL INCLUDE 24-HR EMERGENCY CONTACT INFORMATION FOR FACILITY OPERATOR.

HAZARD & EMERGENCY SIGNAGE
NOT TO SCALE



TYPICAL UTILITY POLE
NOT TO SCALE

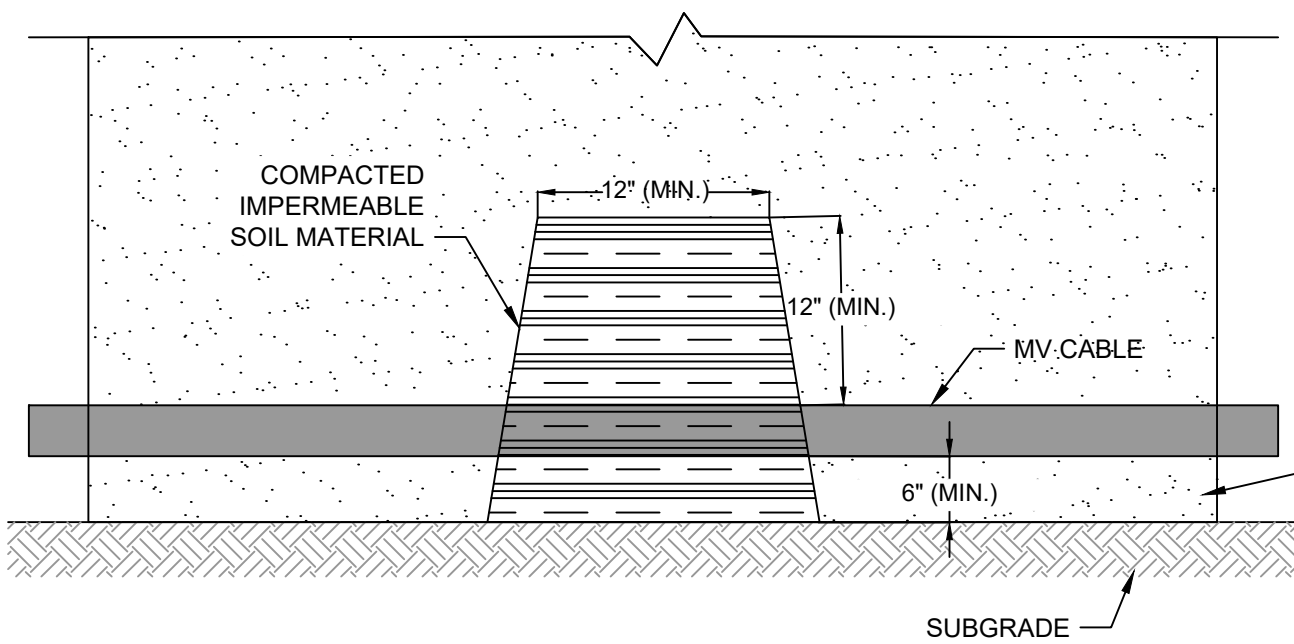


STABILIZE ARRAY DRIP EDGE WITH
EROSION CONTROL BLANKET WHERE NECESSARY
TO PREVENT EROSION UNTIL DENSE VEGETATION
IS ESTABLISHED

ARRAY FIELD TO BE RESTORED TO MEADOW
CONDITION, STABILIZE WITH LOAM, SEED, MULCH
IN ACCORDANCE WITH EROSION &
SEDIMENTATION CONTROL PLAN

BALLAST SUPPORTED RACKING TO BE USED
WITHIN LIMIT OF CLOSED LANDFILL. BALLAST
DESIGN TO BE PROVIDED BY RACKING
MANUFACTURER. ASSUMED DIMENSIONS OF
34"Wx8'Lx16"H USED FOR COVER SYSTEM
ASSESSMENT BASED ON PROJECT
EXPERIENCE

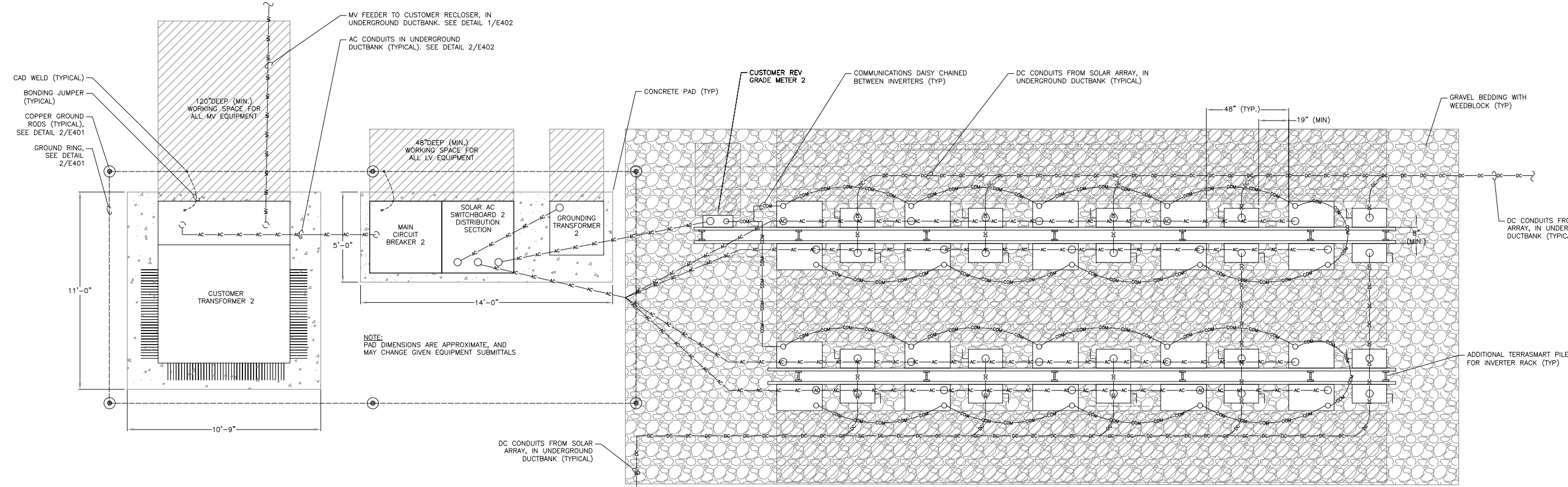
TYPICAL FIXED TILT BALLAST SUPPORTED SOLAR RACKING — SIDE ELEVATION
NOT TO SCALE



TRENCH DAM
NOT TO SCALE

CONSTRUCTION NOTES:

1. TRENCH DAMS TO BE PLACED MINIMUM 10' O.C. SPACING AT LOCATIONS INDICATED ON SITE PLAN.
2. IMPERMEABLE SOIL MATERIAL TO HAVE MINIMUM 35% FINES AND MAXIMUM PARTICLE SIZE OF 3 INCHES. MATERIAL SHALL BE COMPACTED WITHIN 4% ABOVE THE OPTIMUM MOISTURE CONTENT AND A MINIMUM IN-PLACE DENSITY OF 90% OF MAXIMUM DRY DENSITY (IN ACCORDANCE WITH ASTM D698) AND PLACED IN MAXIMUM COMPACTED LIFTS OF 9-INCHES.
3. ALTERNATE METHOD (I.E., HDPE PLATE, RUBBER COLLAR) MAY BE USED AS APPROVED BY ENGINEER.



NOTES:
1. EQUIPMENT SHOWN FOR REFERENCE ONLY. ACTUAL
EQUIPMENT SIZE, LAYOUT, AND CONFIGURATION WILL DEPEND ON
COMPLETED SYSTEM IMPACT STUDY AND LARGE GENERATOR
INTERCONNECTION AGREEMENT.

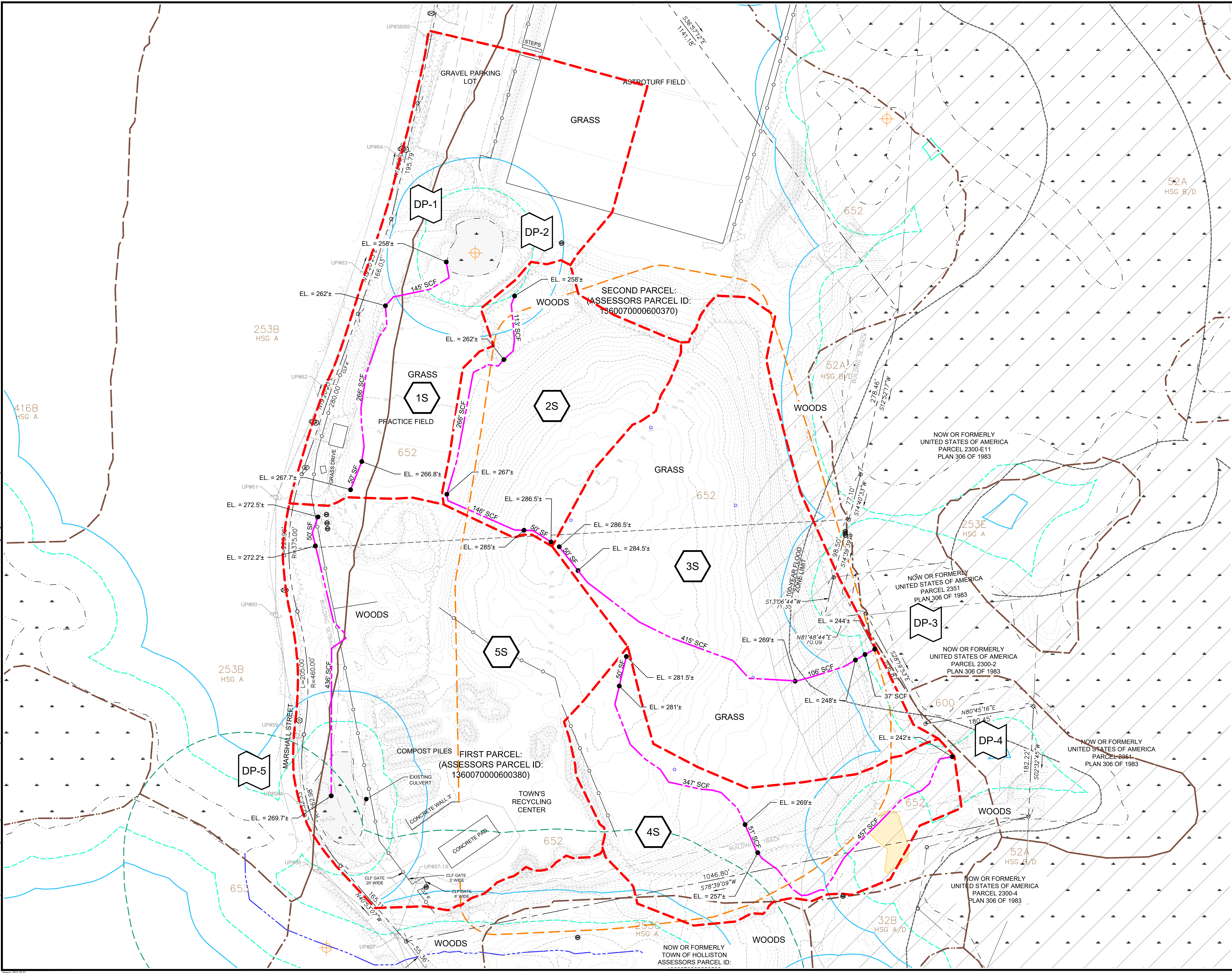
TYPICAL INVERTER AND MV TRANSFORMER LAYOUT
NOT TO SCALE

PERMITTING
NOT FOR CONSTRUCTION



SEAL:		PROFESSIONAL ENGINEER:		
		MIKE PLUMB		
		DATE:		
		JULY 16, 2021		
3	TRC	7/16/2021	REVISION 3 PER CONSERVATION COMMISSION COMMENTS	MP
2	TRC	6/29/2021	REVISION 2 PER CONSERVATION COMMISSION COMMENTS	MP
1	TRC	5/17/2021	REVISED PER CONSERVATION COMMISSION COMMENTS	MP
0	TRC	3/8/2021	ISSUED FOR PERMITTING	MP
NO.	BY	DATE	REVISION	APPD.
PROJECT: SCS MARSHALL 012252 HOLLISTON, LLC PROPOSED 2.5 MW-AC SOLAR ARRAY MARSHALL STREET, HOLLISTON, MA				
TITLE: PRELIMINARY ELECTRICAL DETAILS				
DRAWN BY: ARD		PROJ. NO.: 343578		
CHECKED BY: ASW		C-5		
APPROVED BY: MP				
DATE: JULY 2021				
		650 Suffolk Street Suite 200 Lowell, MA 01854 Phone: 978.970.5600		
FILE NO:		Holliston_DT.dwg		

2436 --USER:Admin --ATTACHED:REFS: 34576 NATURAL RESOURCES; 34576ARCS SOILS -- ATTACHED IMAGES: DISM --
DRAWING NAME: \\lowell\p\Environmental\Projects\343576 - Holliston Soil Systems Landfill\FCUP Application\10-DWG\Holliston_PR_Cond_Plans_Working.dwg --- PLOT DATE: July 16, 2021 - 3:20PM --- LAYOUT: SW-1
Version: 2017-10-21



LEGEND

DP-1

1S

ANALYSIS POINT

SUBCATCHMENT

SURVEYED PROPERTY BOUNDARY

TC FLOWPATH

SUBCATCHMENT BOUNDARY

NRCS SOILS DATA

SITE SPECIFIC SOILS TABLE

ID	NAME	SLOPE RANGE	HSG
32B	WAREHAM LOAMY FINE SAND	0-5%	A/D
52A	FREETOWN MUCK	0-1%	B/D
253B	HINCKLEY LOAMY SAND	3-8%	A
253C	HINCKLEY LOAMY SAND	8-15%	A
254B	MERRIMAC FINE SANDY LOAM	3-8%	A
600	PITS, GRAVEL	N/A	N/A
652	UDORTHENTS, REFUSE SUBSTRATUM	N/A	N/A

0

70

140

210

280

SCALE IN FEET

0

70

140

210

280

SCALE IN FEET

PERMITTING

NOT FOR CONSTRUCTION

SEAL:

COMMONWEALTH OF MASSACHUSETTS

MICHAEL PLUMB

REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER:

MIKE PLUMB

DATE:

JULY 16, 2021

3

TRC

7/16/2021

REVISION 3 PER CONSERVATION COMMISSION COMMENTS

MP

2

TRC

6/29/2021

REVISION 2 PER CONSERVATION COMMISSION COMMENTS

MP

1

TRC

5/17/2021

REVISED PER CONSERVATION COMMISSION COMMENTS

MP

0

TRC

3/8/2021

ISSUED FOR PERMITTING

MP

NO.

BY

DATE

REVISION

APPD.

PROJECT:

SCS MARSHALL 012252 HOLLISTON, LLC
PROPOSED 2.5 MW-AC SOLAR ARRAY
MARSHALL STREET, HOLLISTON, MA

TITLE:

PRE-DEVELOPMENT DRAINAGE PLAN

DRAWN BY:

ARJ

PROJ. NO.:

343576

CHECKED BY:

ASW

APPROVED BY:

MP

DATE:

JULY 2021

SW-1

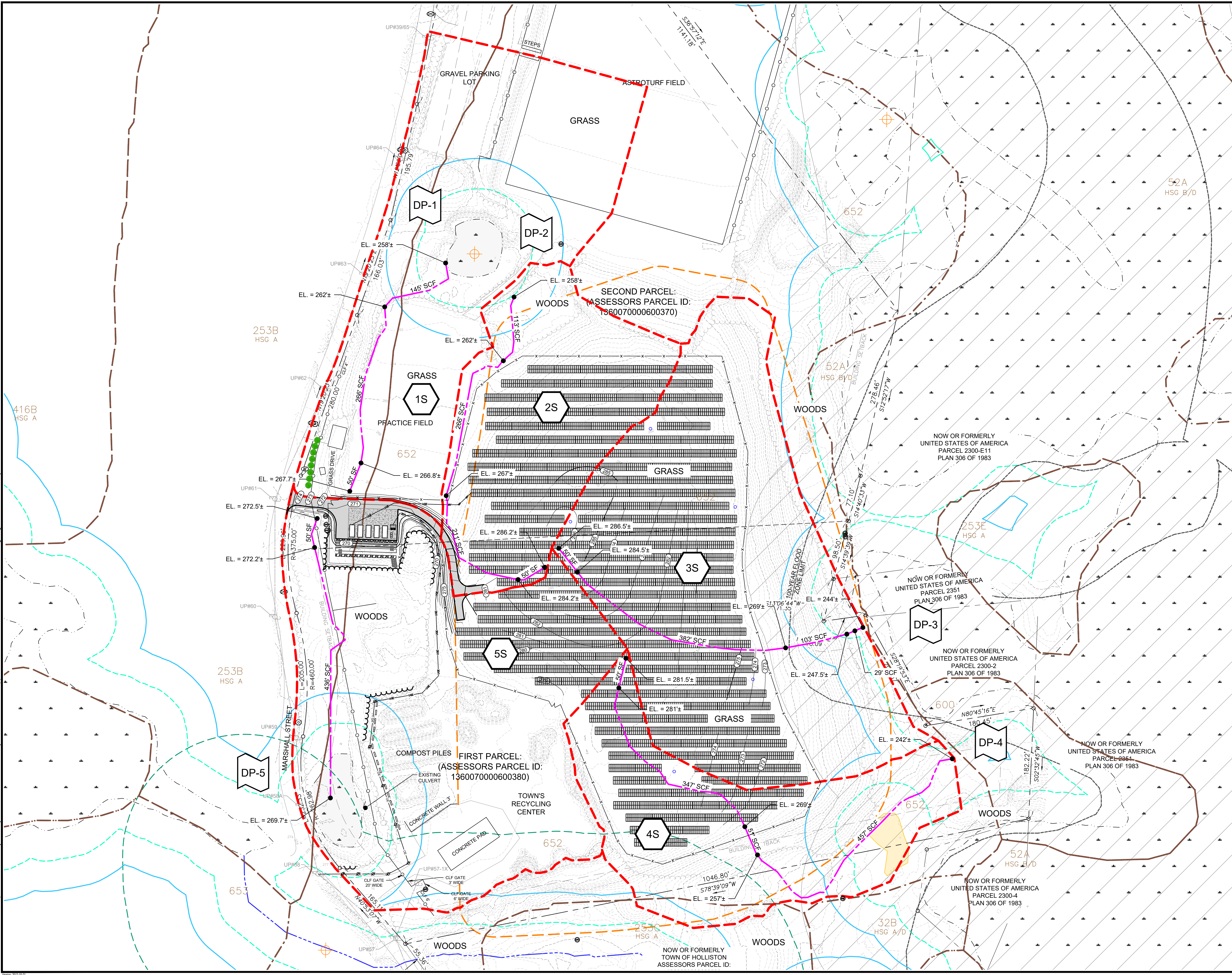
TRC

650 Suffolk Street
Suite 200
Lowell, MA 01854
Phone: 978.970.5600

FILE NO.:

Holliston_PR_Cond_Plans_Working.dwg

2436 --USER:Abdullah --ATTACHED:REFS: 34576 NATURAL RESOURCES: 34576ARCS SOILS -- ATTACHED IMAGES: D:\SW-2
DRAWING NAME: \\lowell\p\Environmental\Projects\434376 - Holliston Soil Systems Landfill\FCUP Application\10-DWG\Holliston PR Cond. Plans Working.dwg --- PLOT DATE: July 16, 2021 - 3:20PM --- LAYOUT: SW-2
Version: 2017-10-21



LEGEND

- DP-1 ANALYSIS POINT
- 1S SUBCATCHMENT
- SURVEYED PROPERTY BOUNDARY
- TC FLOWPATH
- SUBCATCHMENT BOUNDARY
- DeA HSG A NRCS SOILS DATA

SITE SPECIFIC SOILS TABLE

ID	NAME	SLOPE RANGE	HSG
32B	WAREHAM LOAMY FINE SAND	0-5%	A/D
52A	FREETOWN MUCK	0-1%	B/D
253B	HINCKLEY LOAMY SAND	3-8%	A
253C	HINCKLEY LOAMY SAND	8-15%	A
254B	MERRIMAC FINE SANDY LOAM	3-8%	A
600	PITS, GRAVEL	N/A	N/A
652	UDORTHENTS, REFUSE SUBSTRATUM	N/A	N/A

SCALE IN FEET
0 70 140 210 280

PERMITTING
NOT FOR CONSTRUCTION

PROFESSIONAL ENGINEER:
MIKE PLUMB
DATE:
JULY 16, 2021

NO.	BY	DATE	REVISION	APPD.
3	TRC	7/16/2021	REVISION 3 PER CONSERVATION COMMISSION COMMENTS	MP
2	TRC	6/28/2021	REVISION 2 PER CONSERVATION COMMISSION COMMENTS	MP
1	TRC	5/17/2021	REVISED PER CONSERVATION COMMISSION COMMENTS	MP
0	TRC	3/8/2021	ISSUED FOR PERMITTING	MP

PROJECT: SCS MARSHALL 012252 HOLLISTON, LLC
PROPOSED 2.5 MW-AC SOLAR ARRAY
MARSHALL STREET, HOLLISTON, MA

TITLE: POST-DEVELOPMENT DRAINAGE PLAN

DRAWN BY:	ARD	PROJ. NO.:	343578
CHECKED BY:	ASW		
APPROVED BY:	MP		
DATE:	JULY 2021		

650 Suffolk Street
Suite 200
Lowell, MA 01854
Phone: 978.970.5600

FILE NO.: Holliston_PR Cond. Plans_Working.dwg