

PROJECT PARCEL SITE
TOWN OF HOLLISTON ASSESSORS MAP DATA

PARCEL ID : 14-21.4

PLANS TO ACCOMPANY PERMIT DOCUMENTS

FOR

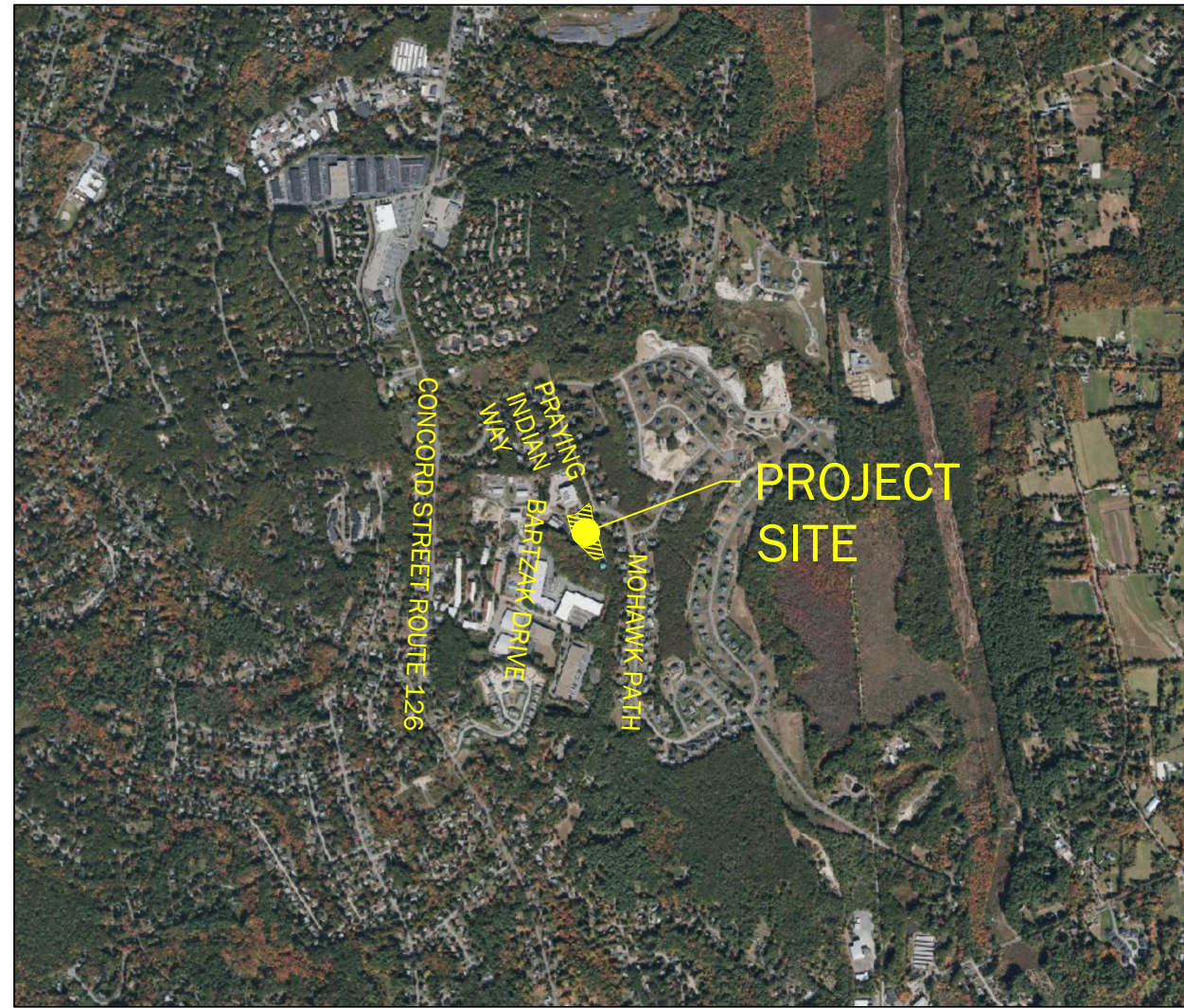
LARGE-SCALE SOLAR POWER GENERATION SYSTEM

0 BARTZAK DRIVE

HOLLISTON, MASSACHUSETTS

ORIGINAL ISSUE DATE: JULY 27, 2022

REVISED: OCTOBER 18, 2023



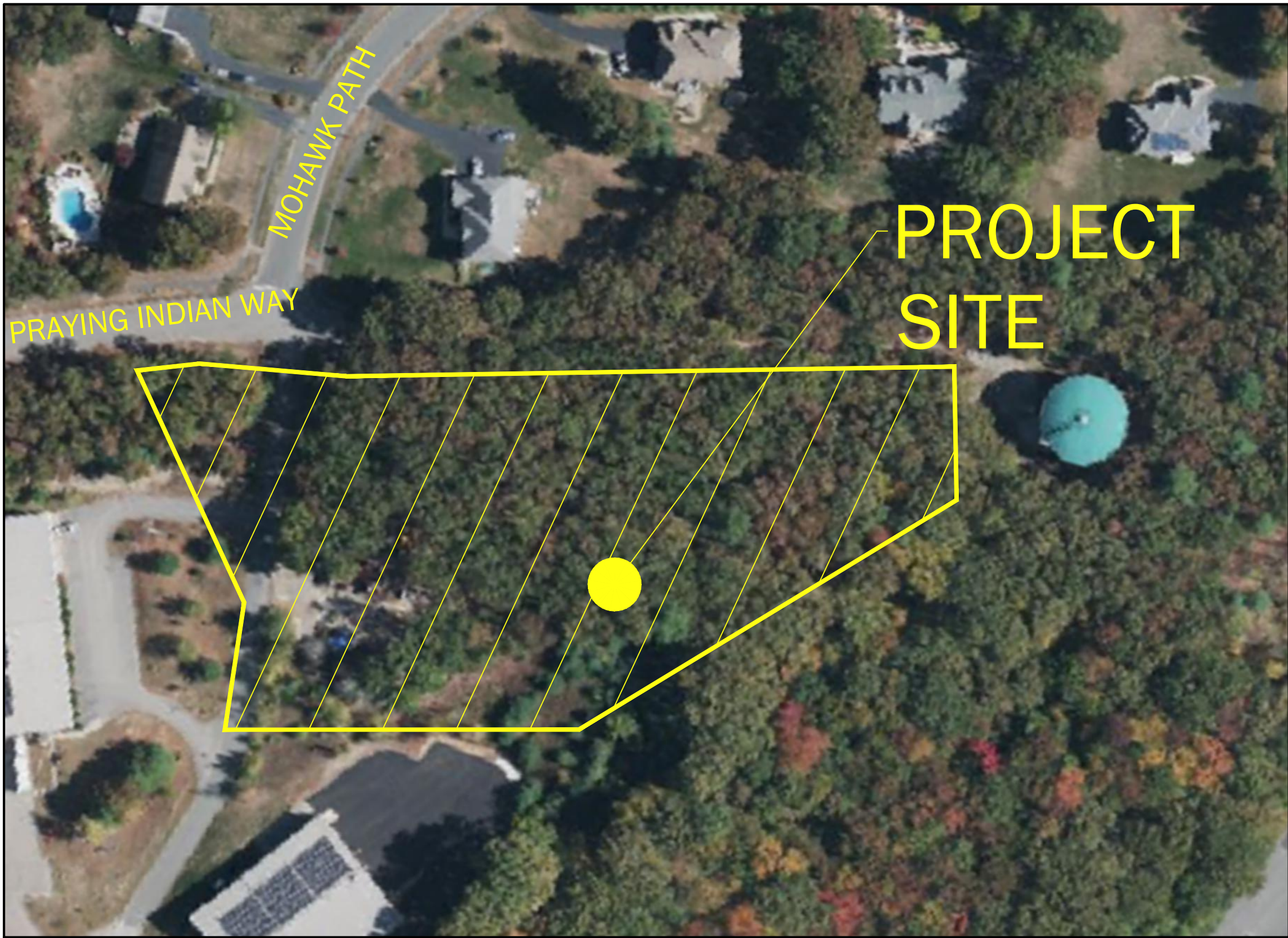
LOCUS MAP
1"=2000'

INDEX

SHEET I.D.	TITLE	LAST REVISED
C000	COVER SHEET	2023.10.18
C001	GENERAL NOTES AND LEGEND	2022.05.10
C100	ALTA/NSPS LAND TITLE SURVEY	2022.03.25
C101	SUPPLEMENTAL EXISTING CONDITIONS PLAN	2023.04.25
C110	EROSION AND SEDIMENTATION CONTROL PLAN	2023.10.18
C111	EROSION AND SEDIMENTATION CONTROL NOTES	2023.05.10
C120	SITE PLAN	2023.10.18
C121	LANDSCAPE PLAN	2023.10.18
C200	DETAILS	2023.05.10
C201	DETAILS	2022.07.27
C202	DETAILS	2022.07.27

PERMITS

LOCAL	GOVERNING BODY	STATUS
SITE PLAN REVIEW & SPECIAL PERMIT	TOWN OF HOLLISTON PLANNING BOARD HOLLISTON TOWN HALL 703 WASHINGTON STREET, ROOM 017 HOLLISTON, MA 01746 ATTN: KAREN SHERMAN	FILED JULY 27, 2022
NOTICE OF INTENT	TOWN OF HOLLISTON CONSERVATION COMMISSION HOLLISTON TOWN HALL 703 WASHINGTON STREET, ROOM 017 HOLLISTON, MA 01746 ATTN: RYAN CLAPP	FILED AUGUST 2, 2022 DEP FILE #185-0928 (WITHDRAWN) LOCAL FILE #(TBD)
BUILDING PERMIT	TOWN OF HOLLISTON BUILDING DEPARTMENT HOLLISTON TOWN HALL 703 WASHINGTON STREET, ROOM 017 HOLLISTON, MA 01746 ATTN: MARK KAERLEIN	TO BE FILED
FEDERAL	GOVERNING BODY	STATUS
NPDES CONSTRUCTION GENERAL PERMIT	U.S ENVIRONMENTAL PROTECTION AGENCY NEW ENGLAND REGION 5 POST OFFICE SQUARE SUITE 100 BOSTON MA,02109	TO BE FILED 14 DAYS PRIOR TO CONSTRUCTION



SITE AERIAL
1"=80'

PREPARED BY

CIVIL ENGINEER
BEALS ASSOCIATES, INC.
2 PARK PLAZA
SUITE 200
BOSTON, MA 02116
T.617.242.1120

SURVEYOR
PRECISION LAND SURVEYING, INC.
32 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772

SOLAR DESIGNER
WOOD PLC
17325 PARK ROW
HOUSTON, TX 77084

ENVIORNMENTAL
GEOENGINEERS USA PC
239 CAUSEWAY STREET
BOSTON, MA 02114

"I ATTEST THAT THE PLANNING BOARD VOTED
TO TO APPROVE THIS
SPECIAL PERMIT/SITE PLAN ON (DATE).

(SIGNATURE OF PLANNING BOARD MEMBER)*

APPLICANT/DEVELOPER
BARTZAK PV I, LLC
200 PORTLAND STREET, 5TH FLOOR
BOSTON, MA 02114
T: 617. 971.7823
ATTN: ADAM MAYNARD

PROPERTY OWNER
BARTZAK LAND, LLC
200 PORTLAND ST. 5TH FLOOR
BOSTON, MA 02114

D. Howe

DEVIN P. HOWE, P.E. 57328 CIVIL

I HEREBY ACKNOWLEDGE THAT THESE PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS TO PRACTICE AS A PROFESSIONAL ENGINEER.



Project No. C-1278
Original Issue Date:
July 27, 2022

BEALS ASSOCIATES INC.

2 PARK PLAZA SUITE 200 BOSTON, MA 02116
PHONE: 617-242-1120
*PLANNING *ENGINEERING *PERMITTING *MANAGEMENT

REVISION	DATE
1) Revised per Town and peer review comments	2022.10.11
2) Revised per resource area delineations	2023.04.25
3) Revised per Town comments	2023.05.10
4) Removed work from 100' buffer zone	2023.10.18

GENERAL NOTES:

- NO DRAWINGS ISSUED ELECTRONICALLY SHALL BE USED FOR CONSTRUCTION PURPOSES. ALL ELECTRONIC MEDIA IS PROVIDED OUT OF COURTESY ONLY AND MAY NOT BE USED FOR PUBLICATION, DISTRIBUTION OR ADAPTATION WITHOUT EXPRESS WRITTEN CONSENT FROM BEALS ASSOCIATES, INC.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY ROADWORK OR MUNICIPAL CONSTRUCTION.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, SURVEY INFORMATION BY THE PROJECT SURVEYOR, AND MEASUREMENTS TAKEN IN THE FIELD WHERE POSSIBLE. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AND DIGSAFE (1-888-DIGSAFE) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF PUBLIC WORKS TO MARK OUT ALL LOCALLY OWNED UTILITIES 72 HOURS PRIOR TO ANY CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN. THE CONTRACTOR SHALL NOT RELOCATE ANY LOCALLY OWNED UTILITY WITHOUT PRIOR APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS. ALL UTILITY WORK WITHIN THE RIGHT OF WAY SHALL BE PERFORMED BY A LICENSED DRAIN LAYER UNDER THE SUPERVISION OF THE DEPARTMENT OF PUBLIC WORKS.
- MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE, AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS DEEMED NECESSARY BY ONSITE INSPECTIONS BY THE OWNER OR THEIR REPRESENTATIVES AND THE MUNICIPAL CODE ENFORCEMENT OFFICER AT NO ADDITIONAL COST TO THE OWNER.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE LOCAL SPECIFICATIONS, MASSACHUSETTS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARDS, AWWA STANDARDS AND OTHER RELATED INDUSTRY STANDARDS.
- THIS PROJECT IS SUBJECT TO ALL TERMS AND CONDITIONS OF ALL REGULATIONS ADMINISTERED BY THE MASSACHUSETTS ENVIRONMENTAL POLICY ACT, MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION, MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, HIGHWAY DIVISION, LOCAL UTILITY COMPANIES AND MUNICIPAL OFFICIALS.
- THE CONTRACTOR SHALL REVIEW ALL RELEVANT FEDERAL, STATE AND MUNICIPAL PERMITS ASSOCIATED WITH THIS PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CERTIFY THAT ALL RELEVANT REQUIREMENTS REGARDING CONSTRUCTION, TESTING, AND REPORTING OF THE PERMITS HAVE BEEN MET AND THE PROJECT HAS BEEN CONSTRUCTED IN COMPLIANCE WITH THESE PORTIONS OF THE PERMITS.
- ALL SIGNAGE SHALL CONFORM TO THE STANDARDS FOR SIZE, HEIGHT, LOCATION, AND REFLECTIVITY SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- THESE PLANS AND SPECIFICATIONS ARE INTENDED TO BE EXPLANATORY OF THE WORK TO BE COMPLETED AND OF EACH OTHER. SHOULD ANY OMISSION, ERROR, OR DISCREPANCIES APPEAR, THEY SHALL BE SUBJECT TO CORRECTION AND INTERPRETATION BY THE DESIGN ENGINEER, THEREBY DEFINING AND FULFILLING THE INTENT OF THE PLANS.
- NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES IN THE DOCUMENTS, WORK THAT PROCEEDS WITHOUT NOTIFYING THE ENGINEER IS AT THE CONTRACTOR'S OWN RISK. COSTS OF ANY CHANGES REQUIRED BY THE ENGINEER OF SAID WORK SHALL BE SOLELY BORNE BY THE CONTRACTOR.
- WHERE THE EXISTING UTILITIES ARE FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION ACTIVITIES.
- ALL MATERIAL SCHEDULES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE HIS OWN MATERIAL SCHEDULES BASED ON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.
- ALL WORK SHALL BE PERFORMED WITH THE HIGHEST STANDARDS OF THE INDUSTRY.
- THE CONTRACTOR SHALL DISPOSE OF HAZARDOUS MATERIALS AND CONSTRUCTION BY-PRODUCTS IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL LAWS.
- THE CONTRACTOR SHALL AT ALL TIMES KEEP THE SITE CLEAR OF ACCUMULATED WASTE MATERIALS OR RUBBISH GENERATED BY THEIR ACTIVITIES. UPON COMPLETION OF WORK, ALL DEBRIS, SUPPLIES, AND EQUIPMENT SHALL BE REMOVED.
- THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE ALL BASE BUILDING CONDITIONS PRIOR TO COMMENCING WORK.
- PRIOR TO CONSTRUCTION, CONTRACTORS SHALL SUBMIT A JOB SCHEDULE TO BE DISCUSSED AND PERFORMED IN ACCORDANCE WITH TARGET DATES PROVIDED AND SUBJECT TO OWNER APPROVAL.
- UNLESS OTHERWISE NOTED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- LATERAL DISTANCE TO ALL BUFFER ZONES AND CRITICAL AREAS TO BE VERIFIED PRIOR TO CONSTRUCTION ACTIVITIES.
- AT THE PERIMETER OF NEW CONSTRUCTION ACTIVITIES, THE PROPOSED CONDITION SHALL MEET WITH THE EXISTING CONDITIONS UNLESS OTHERWISE NOTED.
- AREAS OUTSIDE OF THE LIMIT OF WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- PROPOSED UTILITIES INSTALLED BY PRIVATE UTILITY COMPANIES, SUCH AS GAS, ELECTRIC AND TELEPHONE, SHALL BE SUBJECT TO ALTERATION AND ADJUSTMENT. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION COORDINATION WITH THE INSTALLERS.
- UNLESS OTHERWISE NOTED, LOAM AND SEED ALL DISTURBED AREAS.
- SEDIMENT DEPOSITED IN ANY DRAINAGE SYSTEM SHALL BE REMOVED BY THE CONTRACTOR UPON COMPLETION OF CONSTRUCTION ACTIVITIES.
- EROSION AND SEDIMENTATION CONTROL DEVICES TO BE INSTALLED DOWN-GRADIENT OF THE LIMIT OF WORK AND/OR AS SHOWN ON THE PLANS AS NECESSARY.
- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION. EROSION CONTROL SHALL DENOTE THE LIMIT OF WORK UNLESS OTHERWISE NOTED.
- ALL PROPOSED WORK AND MATERIALS LOCATED WITHIN THE PUBLIC RIGHT OF WAY SHALL CONFORM TO THE LOCAL STANDARDS AND REGULATIONS. A STREET OPENING PERMIT SHALL BE OBTAINED FOR ALL SUCH WORK AS NECESSARY.
- ALL DIMENSIONING UNLESS OTHERWISE NOTED IS TO THE FACE OF CURB, EDGE OF PAVEMENT OR FACE OF BUILDING.
- ANY DISCREPANCIES IN EXISTING CONDITIONS WILL BE REPORTED BY THE CONTRACTOR TO THE DESIGN ENGINEER PRIOR TO ADDITIONAL CONSTRUCTION ACTIVITIES.
- TOPOGRAPHY SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
- AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE.
- ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE PROPERTY OWNER.
- PROPERTY MARKERS AND STREET LINE MONUMENTS SHALL BE PROPERLY PROTECTED AT ALL TIMES DURING CONSTRUCTION TO ENSURE INTEGRITY. IF DISTURBED, THEY SHALL BE REPLACED BY A REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

EROSION CONTROL NOTES:

THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE REQUIRED TO INSURE THE EFFECTIVENESS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES ARE OPTIMIZED.

NOTE: FOR ALL GRADING ACTIVITIES, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO OVEREXPOSE THE SITE BY LIMITING THE DISTURBED AREA AND SHALL STABILIZE ANY STEEP SLOPES WITHIN 24 HOURS IF FINAL SLOPE GRADING AND STABILIZATION WILL NOT BE COMPLETED WITHIN 7 DAYS. ANY FINAL SLOPES SHALL HAVE THE SPECIFIED EROSION CONTROL MEASURES INSTALLED WITHIN 7 DAYS OF FINAL STABILIZATION.

- THE LIMIT OF WORK LINE SHOWN ON THE APPROVED PLANS SHALL BE CLEARLY MARKED WITH FLAGS AND STAKES.
- PRIOR TO ANY CLEARING, TREE REMOVAL, OR GROUND DISTURBANCES, THE EXISTING WELLS WITHIN THE LIMIT OF OVERALL DEVELOPMENT AND CLEARING AREA SHALL BE CLEARLY MARKED WITH FLAGS, STAKES, AND CONSTRUCTION FENCE. MARKINGS SHALL REMAIN IN PLACE DURING THE DURATION OF CONSTRUCTION TO ENSURE PROTECTION OF THE EXISTING WELLS.
- INSTALL CONSTRUCTION ENTRANCE AND EROSION CONTROL MEASURES PRIOR TO OPERATING HEAVY EQUIPMENT ON THE SITE.
- CLEAR AND GRUB AREAS FOR EMBANKMENTS AND EQUIPMENT PADS. SEE NOTE ABOVE REGARDING LIMITING DISTURBED AREAS.
- INSTALL 6 FOOT GALVANIZED CHAIN LINK FENCE (OR EQUAL) AS SHOWN ON PLANS.
- ANY AND ALL MATERIALS ASSOCIATED WITH THE CONSTRUCTION OF THE SOLAR ENERGY FACILITY SHALL BE STOCKPILED ON THE SITE.
- INSTALL SUPPORTS FOR PHOTOVOLTAIC PANELS.
- CONSTRUCT ELECTRICAL CONDUIT CONNECTING PANEL ARRAYS.
- SCARIFY AREAS FOR PANEL PLACEMENT AND OVER-SOW COVER CROP OF LOW-GROWING VEGETATION AS NOTED ON THE PLANS.
- NO PESTICIDES, HERBICIDES OR FERTILIZERS WILL BE USED DURING THE CONSTRUCTION OR FUTURE OPERATION AND MAINTENANCE OF THE FACILITY.
- INSTALL PHOTOVOLTAIC PANELS.
- CONSTRUCT INFRASTRUCTURE FOR THE COLLECTION OF ELECTRICITY GENERATED BY THE PHOTOVOLTAIC PANELS (I.E. INVERTERS AND TRANSFORMERS, ETC.).
- UPON ABANDONMENT OR DISCONTINUED USE OF THE SOLAR ENERGY FACILITY, ALL SURFACE UTILITIES AND IMPROVEMENTS SHALL BE REMOVED. ALL BURIED CONDUITS AND CABLES OVER 2 FEET BELOW GRADE WILL BE ABANDONED IN PLACE. SITE CONDITIONS SHALL BE RESTORED TO PREDEVELOPMENT CONDITIONS, INCLUDING AGRICULTURAL CONDITIONS.
- REMOVE ALL ACCUMULATED SEDIMENT FROM SILT BARRIERS.

THIS SEQUENCE IS APPLICABLE TO ALL PHASES OF THE PROJECT.

SOIL WILL BE CONSIDERED DISTURBED IF IT DOES NOT HAVE AN ESTABLISHED STAND OF VEGETATION COVERING AT LEAST 90% OF THE SOIL SURFACE OR HAS NOT BEEN MULCHED WITH HAY APPLIED AT A RATE OF 230 LB./1,000 SQ. FT.

ALL DISTURBED AREAS NOT TO RECEIVE GRAVEL OR CONCRETE SHALL RECEIVE A SOLAR SEED MIX THAT RESULTS IN A MAXIMUM GROWTH HEIGHT OF 30-INCHES. THE SEED MIX SHALL BE THE "SOLAR MIX" AVAILABLE FROM VALLEY GREEN, INC. CONTAINING THE FOLLOWING SEEDS OR AN APPROVED EQUAL. IN AREAS WHERE EXISTING TOPSOIL IS THIN OR ABSENT, ADDITIONAL TOPSOIL SHALL BE SPREAD TO BRING THE MINIMUM TOPSOIL DEPTH TO FOUR (4) TO SIX (6) INCHES IN TOTAL. THE SEED MIX DESCRIBED BELOW SHALL BE SPREAD AT A RATE OF 40 TO 45 POUNDS PER ACRE. PERCENTAGES LISTED BELOW ARE BY WEIGHT.

- 39.75% CREEPING RED FESCUE
- 19.81% AUDOBON CREEPING RED FESCUE
- 19.73% ABERDEEN CREEPING RED FESCUE
- 6.73% FIREFLY HARD FESCUE
- 6.58% OXFORD HARD FESCUE
- 5.75% EUREKA HARD FESCUE

SEEDING SHALL BE PERFORMED WITHIN THE FOLLOWING PERIODS:

- APRIL 1 TO MAY 31
- AUGUST 1 TO SEPTEMBER 10
- NOVEMBER 1 TO DECEMBER 15 AS DORMANT SEEDING (INCREASE RATES BY 50%)

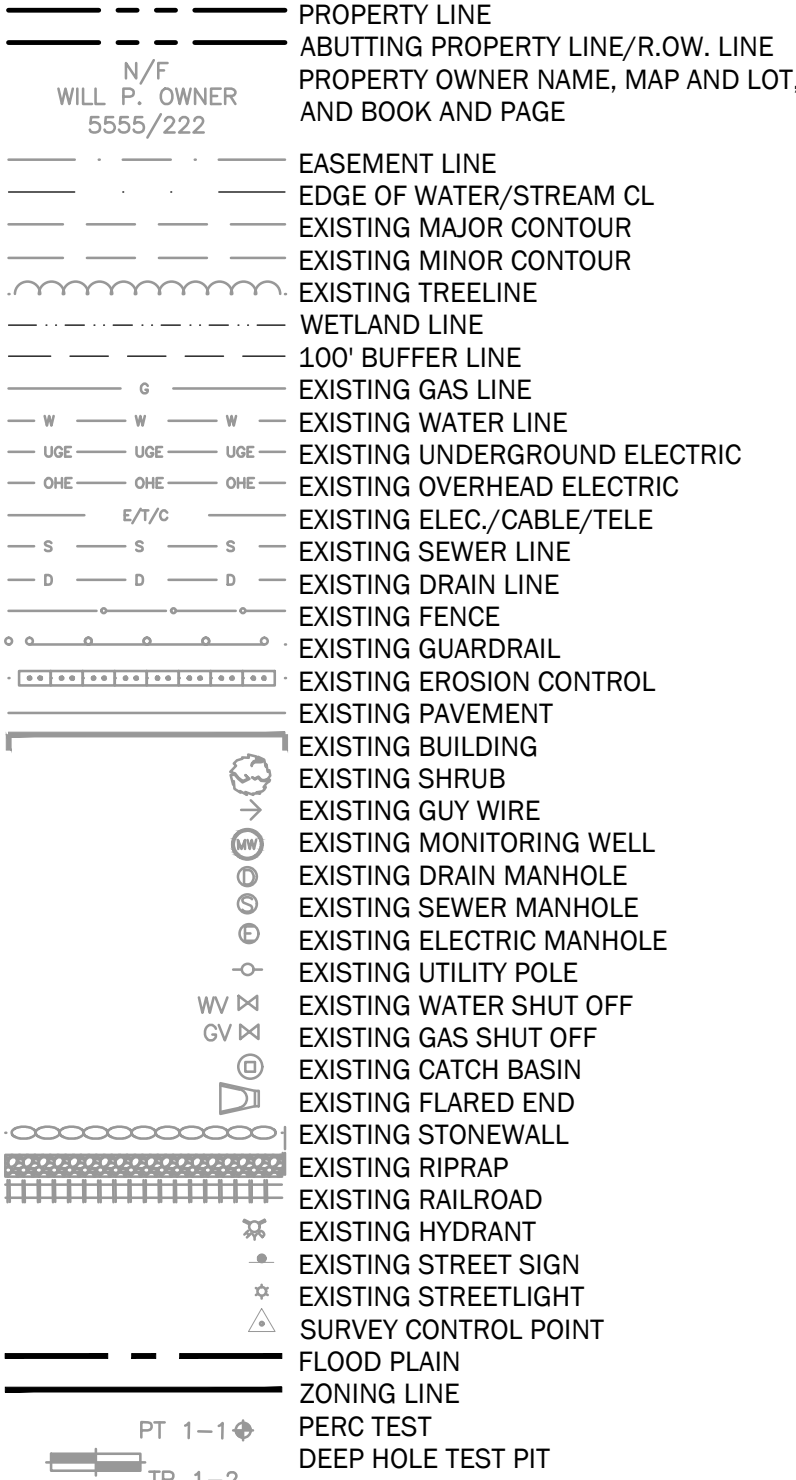
SEEDING MAY BE DONE BY DRILL SEEDING, BROADCAST AND ROLLED, OR BY HYDROSEEDING. UPON COMPLETION OF SEEDING, STRAW MULCH SHALL BE APPLIED AT 1,000 TO 1,500 POUNDS PER ACRE. IN ORDER TO ACHIEVE STABILIZED STATUS, SEED GERMINATION SHALL BE 90% TO 90%. AFTER ONE FULL GROWING SEASON, THE CONTRACTOR SHALL REVIEW THE REVEGETATION EFFORTS. IN AREAS THAT FEATURE LESS THAN 75% COVERAGE, THE CONTRACTOR SHALL PREPARE AND RESEED THE AREA. EROSION CONTROL BARRIERS MAY BE REMOVED ONLY UPON FULL REVEGETATION OF THE DISTURBED AREAS.

PLAN NOTES:

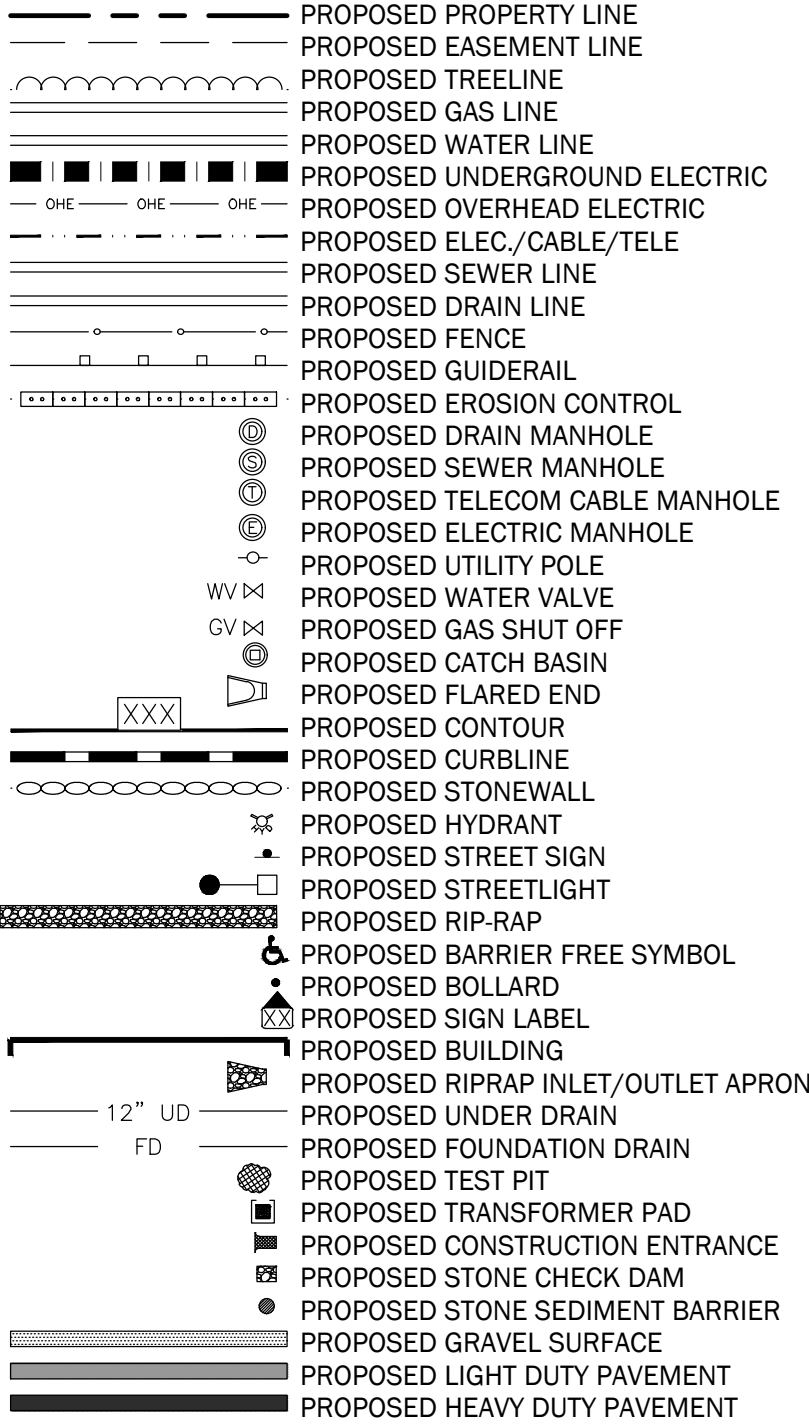
THE EXISTING CONDITIONS PLAN HAS BEEN COMPILED FROM THE FOLLOWING SOURCES, AND IS NOT THE RESULT OF AN ON THE GROUND SURVEY PERFORMED BY BEALS ASSOCIATES, INC.

- BOUNDARY INFORMATION OBTAINED FROM PLAN ENTITLED "ALTA/NSPS LAND TITLE SURVEY IN HOLLISTON, MA" DATED JANUARY 28, 2022 AND PREPARED BY PRECISION LAND SURVEYING, INC. ABUTTER PROPERTY LINES HAVE BEEN SUPPLEMENTED FROM MASS GIS FOR ILLUSTRATIVE PURPOSES.
- NORTH ARROW OBTAINED FROM PLAN ENTITLED "ALTA/NSPS LAND TITLE SURVEY IN HOLLISTON, MA" DATED JANUARY 28, 2022 AND PREPARED BY PRECISION LAND SURVEYING, INC.
- THE SITE DETAIL AND SURFACE IMPROVEMENTS DEPICTED HERON WERE OBTAINED FROM PLAN ENTITLED "ALTA/NSPS LAND TITLE SURVEY IN HOLLISTON, MA" DATED JANUARY 28, 2022 AND PREPARED BY PRECISION LAND SURVEYING, INC. BUILDING LOCATIONS HAVE BEEN SUPPLEMENTED FROM MASS GIS.
- THE LOCATIONS OF UNDERGROUND FEATURES HAVE NOT BEEN OBTAINED WITHIN THE SUBJECT PROPERTY AND SURROUNDING AREA. DIG-SAFE SHALL BE CONTACTED PRIOR TO ANY EXCAVATION.
- THE TOPOGRAPHY REFERS TO THE NORTH AMERICAN DATUM OF 1988 (NAVD88), AS OBTAINED FROM MASS GIS LIDAR IMAGERY, 2010 LIDAR FOR THE NORTHEAST PROJECT.
- THE PROJECT SITE IS NOT LOCATED WITHIN NATURAL HERITAGE ESTIMATED OR PRIORITY HABITAT AREAS BASED ON THE 2017 NHESP MAPPING.
- NATURAL RESOURCE AREA DELINEATIONS HAVE BEEN PERFORMED BY BEALS ASSOCIATES, INC. ON JULY 15, 2022. DELINEATIONS WERE FIELD LOCATED BY BEALS ASSOCIATES, INC. ON THE DAY OF THE DELINEATION.
- THE PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA OR WITHIN OTHER AREAS OF FLOOD HAZARD BASED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S (FEMA) FLOOD INSURANCE RATE MAPS FOR MIDDLESEX COUNTY, MASSACHUSETTS.
8.1. RATE MAP NUMBER 2501700631F REVISED THROUGH JULY 7, 2014.
- ANY DISCREPANCIES IN THE EXISTING CONDITIONS SHALL BE REPORTED BY THE CONTRACTOR TO THE DESIGN ENGINEER PRIOR TO ADDITIONAL CONSTRUCTION ACTIVITIES.

LEGEND:EXISTING



LEGEND:PROPOSED



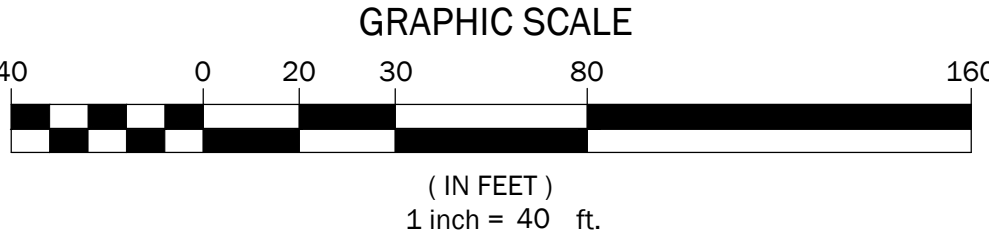
Large-Scale Solar Power Generation System

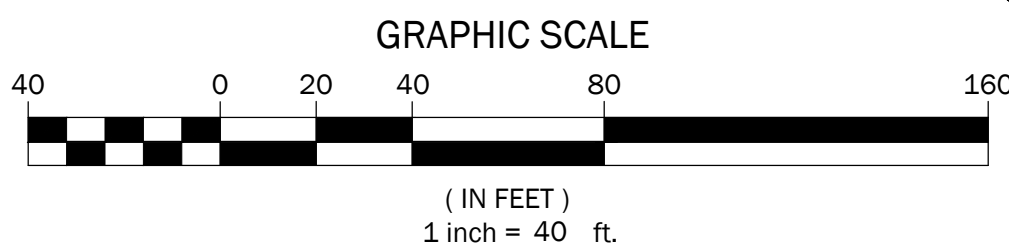
0 Bartzak Drive,
Holliston, MA

Applicant
Bartzak PVI LLC
200 Portland Street, 5th Floor
Boston, MA 02114

BEALS ASSOCIATES INC.
2 PARK BLVD SUITE 200 BOSTON, MA 02116
PHONE: 617-242-3120
FAX: 617-242-3120
PLANNING • ENGINEERING • PERMITTING • MANAGEMENT

1.	Revised per Town and peer review comments	2023.10.11
2.	Revised per resource area designations	2023.04.25
3.	Revised per Town comments	2023.05.10
1.		
2.		
No.	Revision	Date





C110

1. THERE SHALL BE NO STOCKPILING OF MATERIALS OF ANY KIND OUTSIDE THE LIMITS OF WORK.
2. THE EROSION CONTROL MEASURES DEPICTED ON THIS PLAN ARE THE MINIMUM REQUIREMENTS. ADDITIONAL CONTROLS MAY BE NECESSARY DURING VARIOUS PHASES OF CONSTRUCTION.
3. ALL STAKED STRAW BALES AND SILT FENCE SHALL REMAIN IN PLACE AS SHOWN ON THE PLANS UNTIL END OF EACH CONSTRUCTION PHASE.
4. ANY EROSION PROBLEMS SHALL BE IMMEDIATELY CORRECTED ON SITE DURING THE COURSE OF CONSTRUCTION.
5. ALL DISTURBED OR EXPOSED SOIL SURFACES SHALL BE IMMEDIATELY LOAMED AND SEEDED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
6. ADDITIONAL SILT FENCE (AT LEAST 150 LINEAR FEET) AND 50 STRAW BALES AND WORK STAKES (STORED UNDER COVER) ARE TO BE ON SITE AT ALL TIMES IN CASE OF REPAIRS ARE NECESSARY.
7. THE SITE SHALL BE STABILIZED WHEN THE PROJECT IS COMPLETE OR OPERATIONS HAVE TEMPORARILY CEASED. INTERIM AND PERMANENT STABILIZATION MEASURES SHALL BE INSTITUTED ON A DISTURBED AREAS AS SOON AS PRACTICABLE BUT NO MORE THAN FOURTEEN (14) DAYS AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED ON EACH PORTION OF THE SITE. UNTIL A DISTURBED AREA IS PERMANENTLY STABILIZED, SEDIMENT RUNOFF WATER SHALL BE TRAPPED BY USING A SILTATION BARRIER, SILTATION FENCES, AND/OR SEDIMENTATION TRAPS. FINAL STABILIZATION SHALL OCCUR WITHIN SEVEN CALENDAR DAYS OF GRADING, AND RE-VEGETATION SHALL OCCUR DURING THE PLANTING SEASON APPROPRIATE TO THE SELECTED PLANT SPECIES.
8. SEE SHEET C111 FOR ADDITIONAL EROSION AND SEDIMENTATION CONTROL NOTES.

3. EROSION CONTROL NARRATIVE

o.OVERVIEW OF SOIL EROSION AND SEDIMENTATION CONCERNS

THE GENERAL GOALS OF THE EROSION AND SEDIMENT CONTROL PLAN ARE:

- PLAN THE PROJECT TO BE CONSTRUCTED FROM AREAS OF FLATTER GRADES AND AWAY FROM RESOURCES OR THE PROPERTY BOUNDARIES TO THE EXTENT PRACTICAL.
 - DEVELOP A CAREFUL CONSTRUCTION SEQUENCE.
 - RAPID STABILIZATION OF DENUDED AREAS TO MINIMIZE THE PERIOD OF SOIL EXPOSURE.
 - RAPID STABILIZATION OF DRAINAGE PATHS TO AVOID RILL AND GULLY EROSION.
 - THE USE OF ONSITE MEASURES TO CAPTURE SEDIMENT (STRAW BALES, SILT FENCE, ETC.).
 - PROTECTION OF NATURAL RESOURCE AREAS AND DRAINAGE COURSES THROUGH BUFFERING AND THE USE OF BEST MANAGEMENT PRACTICES.
 - THE IMPLEMENTATION OF LONG-TERM MEASURES FOR EROSION/SEDIMENT POLLUTION TREATMENT THROUGH THE CONSTRUCTION OF PERMANENT WATER QUALITY MEASURES.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION CONTROL MEANS AND METHODS ON THE SITE. THE NARRATIVES AND PLANS WITHIN THE CONTRACT DOCUMENTS ARE ANTICIPATED TO BE THE MINIMUM AMOUNT OF EROSION CONTROL NECESSARY, AND ADJUSTMENTS MAY NEED TO BE MADE DURING THE CONSTRUCTION PHASE IN RESPONSE TO WEATHER, UNFORESEEN CONDITIONS OR OTHER FACTORS WHICH COULD IMPACT SOIL EROSION.

b.EROSION AND SEDIMENT CONTROL DEVICES

PRIOR TO AND DURING THE DEVELOPMENT OF THE CONSTRUCTION ACTIVITIES, THE SITE CONTRACTOR SHALL IMPLEMENT AT A MINIMUM THE FOLLOWING EROSION AND SEDIMENTATION CONTROL MEASURES.

SILTATION FENCE

SILTATION FENCE SHALL BE INSTALLED DOWNSTREAM OF ANY DISTURBED AREAS TO TRAP RUNOFF BORNE SEDIMENTS UNTIL THE SITE HAS BEEN STABILIZED. THE SILT FENCE SHALL BE INSTALLED PER THE DETAILS ON THE CONSTRUCTION PLANS AND INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING EXPOSURE. REPAIRS SHALL BE MADE IMMEDIATELY BY THE CONTRACTOR IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THE SILT FENCE LINE. IF SUCH EROSION IS OBSERVED, THE CONTRACTOR SHALL TAKE PROACTIVE ACTION TO IDENTIFY THE CAUSE OF THE EROSION AND TAKE ACTION TO AVOID ITS REOCCURRENCE. TYPICAL THIS. THIS REQUIRES THAT STABILIZATION MEASURES BE TAKEN TO THE DISTURBED TRIBUTARY AREA, PROPER PLACEMENT OF STAKES AND KEYING THE BOTTOM OF THE FABRIC INTO THE GROUND IS CRITICAL FOR THE FILTER'S EFFECTIVENESS. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THE FENCE, THE BARRIER SHALL BE REPLACED WITH A STONE CHECK DAM AND MEASURES TAKEN TO AVOID THE CONCENTRATION OF FLOWS NOT INTENDED TO BE DIRECTED TO THE SILT FENCE.

STRAW MULCH

STRAW MULCH INCLUDING HYDRO SEEDING IS INTENDED TO PROVIDE COVER FOR DENUDED OR SEEDED AREAS UNTIL REVEGETATION IS ESTABLISHED. MULCHING SHOULD BE OCCURRING SEVERAL TIMES PER WEEK WHEN THE SITE CONSTRUCTION ACTIVITY IS HIGH AND AT SUFFICIENT INTERVALS TO REDUCE THE PERIOD OF EXPOSURE OF BARE SOILS TO THE TIME LIMITS SET FORTH IN THIS PLAN. MULCH PLACED ON SLOPES OF LESS THAN 10 PERCENT SHALL BE ANCHORED BY APPLYING WATER; MULCH PLACED ON SLOPES STEEPER THAN 10 PERCENT SHALL BE COVERED WITH FABRIC NETTING AS IMMEDIATELY AFTER MULCHING AS PRACTICABLE AND ANCHORED WITH STAPLES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROPOSED DRAINAGE CHANNELS, WHICH ARE TO BE REVEGETATED, SHALL RECEIVE CURLEX BLANKETS BY AMERICAN EXCELSSIOR OR NORTH AMERICAN GREEN SELECTED FOR THE SLOPE, VELOCITY, AND WHETHER THE MEASURE IS TEMPORARY OR INTENDED TO BE IN PLACE FOR A SUSTAINED PERIOD. STRAW MULCH SHALL BE AVAILABLE ON SITE AT ALL TIMES IN ORDER TO PROVIDE IMMEDIATE TEMPORARY STABILIZATION WHEN NECESSARY.

TEMPORARY STORMWATER SETTLEMENT BASINS

TEMPORARY STORMWATER SETTLEMENT BASINS MAY BE CONSTRUCTED TO PROVIDE SEDIMENTATION CONTROL FOR STORMWATER RUNOFF FROM THE INDIVIDUAL SITE AREAS DURING CONSTRUCTION. THESE BASINS MAY BECOME NECESSARY WHERE OTHER EROSION CONTROL MEASURES ARE NOT ADEQUATE TO PREVENT OFFSITE SEDIMENTATION. THE BASIN SHOULD ONLY BE USED WHERE THERE IS SUFFICIENT SPACE AND APPROPRIATE TOPOGRAPHY. THE BASIN SHOULD BE LARGE ENOUGH TO HANDLE THE MAXIMUM AMOUNT OF EXPECTED SITE DRAINAGE. THE BASIN MAY BE CONSTRUCTED BY EXCAVATION, CONSTRUCTION OF A COMPACTED EMBANKMENT OR A COMBINATION OF BOTH. IT MAY HAVE ONE OR MORE INFLOW POINTS CARRYING POLLUTED RUNOFF. TO IMPROVE TRAP EFFICIENCY, THE BASIN SHOULD HAVE THE MAXIMUM SURFACE AREA POSSIBLE AND SEDIMENT SHOULD ENTER THE BASIN AS FAR FROM THE OUTLET AS POSSIBLE. THIS PROPOSED INFILTRATION MAY BE USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION. CONTRACTOR SHALL INSTALL FILTER FABRIC (MIRAFI 140n OR EQUAL) ON THE BOTTOM OF BASIN PRIOR TO DISCHARGE TO BASIN TO PROTECT SOILS FOR FUTURE INFILTRATION. FABRIC SHALL COVER THE ENTIRE BOTTOM AND EXTEND A MINIMUM THREE FEET UP SIDESLOPES. FABRIC SHALL REMAIN IN PLACE UNTIL SITE HAS BEEN PAVED AND/OR STABILIZED. ENGINEER SHALL INSPECT BOTTOM OF BASIN UPON REMOVAL OF FABRIC TO DETERMINE SUITABILITY OF BASIN FOR INFILTRATION.

STONE CHECK DAMS

A CHECK DAM IS A SMALL DAM CONSTRUCTED ACROSS A DRAINAGE DITCH, SWALE OR CHANNEL TO REDUCE THE VELOCITY OF THE SURFACE RUNOFF. REDUCED RUNOFF VELOCITY REDUCES EROSION AND GULLING IN THE CHANNEL AND ALLOWS THE SEDIMENT TO SETTLE OUT WHERE TEMPORARY CHANNELS OR PERMANENT CHANNELS ARE NOT YET VEGETATED. CHANNEL LINING IS INFEASIBLE AND VELOCITY CHECKS ARE REQUIRED. THIS PRACTICE MAY BE USED AS A TEMPORARY OR EMERGENCY MEASURE TO LIMIT EROSION BY REDUCING FLOW IN SMALL OPEN CHANNELS.

STRAW BALE BARRIERS

STRAW BALE BARRIERS ARE USED SIMILARLY TO SILT FENCE SPECIFICALLY WHERE THE AREA BELOW THE BARRIER IS UNDISTURBED AND VEGETATED. STRAW BALE BARRIERS REQUIRE MORE MAINTENANCE THAN SILT FENCE BARRIERS AND PERMEABILITY THROUGH BALE BARRIERS IS SLOWER THAN SILT FENCE. STRAW BALE BARRIERS SHOULD BE LOCATED WHERE THEY WILL TRAP SEDIMENT. STRAW BALES LOCATED ALONG THE TOP OF A RIDGE SERVE NO USEFUL PURPOSE. STRAW BALE BARRIERS SHALL BE REPLACED WHEN THEY HAVE REACHED THEIR USEFUL LIFE AND THE UPSLOPE AREAS UNSTABILIZED.

CONSTRUCTION ENTRANCE

A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT ALL ACCESS POINTS ONTO THE SITE TO PREVENT TRACKING OF SOIL ONTO ADJACENT LOCAL ROADS. PROPOSED CONSTRUCTION ENTRANCES ARE SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN. CONSTRUCTION ENTRANCES PROVIDE AN AREA WHERE MUD CAN BE REMOVED FROM VEHICLE TIRES BEFORE THEY ENTER A PUBLIC ROAD. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD.

INLET PROTECTION

STORM DRAIN CATCH BASIN INLET PROTECTION SHALL BE PROVIDED THROUGH THE USE OF STONE SEDIMENT BARRIERS OR A PREMANUFACTURED SILTSACK* AS DISTRIBUTED BY A.H. HARRIS OR AN EQUAL APPROVED EQUAL. THE BARRIERS SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRS OR REPLACEMENT MADE AS NECESSARY. SEDIMENT SHALL BE REMOVED AND THE BARRIER RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE BARRIER. THE BARRIER OR SILTSACK SHALL BE REMOVED WHEN THE TRIBUTARY DRAINAGE AREA HAS BEEN STABILIZED.

FILTER BAGS

FILTER BAGS WILL BE REQUIRED TO BE ONSITE AND AVAILABLE FOR CONSTRUCTION Dewatering. THE USE OF FILTER BAGS SHALL BE REQUIRED IN THE EVENT THAT TRENCH DEWATERING ACTIVITIES CANNOT BE DISCHARGED THROUGH A NATURAL BUFFER AREA AT LEAST 100 FEET IN LENGTH OR AT ANY SIGNS OF ANY TURBID DISCHARGE FROM THE SITE.

SLOPE PROTECTION

ADDITIONAL SLOPE PROTECTION WILL BE REQUIRED IN AREAS OF STEEP SLOPES AND WHERE PROPOSED GRADES MEET EXISTING GRADES AT ACUTE ANGLES THAT COULD CAUSE GULLY EROSION. THIS PROTECTION WILL BE MAINLY IN THE FORM OF THE INSTALLATION OF EROSION CONTROL BLANKETS IN AREAS WHERE SLOPES EXCEED 3:1, H.V. UP TO 2:1, H.V. AREAS WHERE SLOPES EXCEED 2:1, H.V. SHOULD BE STABILIZED WITH RIPRAP SLOPE PROTECTION.

LOAM AND SEED

LOAM AND SEED IS INTENDED TO SERVE AS THE PRIMARY PERMANENT REVEGETATIVE MEASURE FOR ALL DENUDED AREAS NOT PROVIDED WITH OTHER EROSION CONTROL MEASURES, SUCH AS RIPRAP OR PERMANENTLY COVERED WITH ROADWAY GRAVEL, PAVEMENT OR BUILDING AREA.

f.TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES

THE FOLLOWING ARE PLANNED AS TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION:

- A CRUSHED STONE-STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT ANY CONSTRUCTION ACCESS POINTS INTO THE SITE. THE LOCATIONS OF THE CONSTRUCTION ENTRANCES SHOWN ON THE DRAWINGS SHOULD BE CONSIDERED ILLUSTRATIVE AND ADJUSTED AS APPROPRIATE AND LOCATED AT ANY AREA WHERE TRACKING OF MUD AND DEBRIS ONTO EXISTING ROADS, PREVIOUSLY PAVED AREAS WITHIN THE PROJECT, OR STREETS IS A POTENTIAL CONCERN. STONE STABILIZED CONSTRUCTION ENTRANCES WILL REQUIRE THE STONE TO BE REMOVED AND REPLACED AS IT BECOMES COVERED OR FILLED WITH MUD AND MATERIAL TRACKED BY VEHICLES EXITING THE SITE.
- SILTATION FENCE OR AN EQUIVALENT SEDIMENT BARRIER SHALL BE INSTALLED ALONG THE DOWNGRADING SIDE OF THE PROPOSED IMPROVEMENT AREAS. THE SILTATION FENCE WILL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL THE SITE IS ACCEPTABLY REVEGETATED. SILTATION FENCE IS TO BE USED ALONG THE CONTOUR OF SIGNIFICANT FILL SLOPES AS ILLUSTRATED ON THE EROSION CONTROL PLAN SITE DRAWINGS. SILTATION FENCE NEEDS TO BE CHECKED TO INSURE THE BOTTOM IS PROPERLY KEPT IN AND INSPECTED AFTER SIGNIFICANT RAINS. WOOD CHIPS FROM CLEARING ARE OFTEN USED ON THE CONSTRUCTION SITE IN FRONT OF THE SILT FENCE TO PROVIDE AN EXTRA MARGIN OF SAFETY AND SECURITY FOR THE SILT FENCE. THIS PRACTICE IS ENCOURAGED, PROVIDED THE CHIPS ARE REMOVED OR DISPERSED INTO FORESTED AREAS WHEN THE FENCE IS REMOVED.
- FILTER BAGS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS IN THE PLAN SET. THE FILTER BAG'S FUNCTION ON THE PROJECT IS TO RECEIVE ANY WATER PUMPED FROM EXCAVATIONS DURING CONSTRUCTION. FILTER BAG SHALL BE INSTALLED AND PREPARED FOR OPERATION PRIOR TO ANY TRENCHING ON SITE. WHEN FILTER BAGS ARE OBSERVED TO BE AT 50% CAPACITY, THEY SHALL BE CLEANED OR REPLACED. STONE UNDER THE FILTER BAGS SHALL BE REMOVED AND REPLACED CONCURRENTLY.
- TEMPORARY STOCKPILES OF COMMON EXCAVATION WILL BE PROTECTED AS FOLLOWS:
 - TEMPORARY STOCKPILES SHALL NOT BE LOCATED WITHIN 100 FEET OF CRITICAL AREAS AND AT LEAST 50 FEET UPGRADIENT OF THE PERIMETER SILT FENCE.
 - INACTIVE STOCKPILES SHALL BE STABILIZED WITHIN 5 DAYS BY EITHER TEMPORARILY SEEDING THE STOCKPILE WITH A HYDRO SEED METHOD CONTAINING AN EMULSIFIED MULCH TACKIFIER OR BY COVERING THE STOCKPILE WITH MULCH. IF NECESSARY, MESH SHALL BE INSTALLED TO PREVENT WIND FROM REMOVING THE MULCH.

• ALL DENUDED AREAS WHICH HAVE BEEN ROUGH GRADED SHALL RECEIVE MULCH OR EROSION CONTROL MESH FABRIC WITHIN 7 DAYS OF INITIAL DISTURBANCE OF SOIL. DISTURBED AREAS WITHIN 75' OF CRITICAL AREAS MUST RECEIVE TEMPORARY EROSION CONTROL MEASURES WITHIN 48 HOURS.

• BETWEEN NOVEMBER 1 AND APRIL 1, OPEN AREA SHALL BE LIMITED TO THREE ACRES, AND DISTURBED SOIL SHALL BE COVERED WITH MULCH WITHIN 5 DAYS OF DISTURBANCE, PRIOR TO ANY PREDICTED STORM EVENT OF THE EQUIVALENT OF 1/2" OF EQUIVALENT RAINFALL IN A 24-HOUR PERIOD, OR PRIOR TO ANY WORK SHUTDOWN LASTING MORE THAN 48 HOURS (INCLUDING WEEKENDS AND HOLIDAYS). THE MULCH RATE SHALL BE DOUBLE THE NORMAL RATE.

• FOR WORK THAT IS CONDUCTED BETWEEN NOVEMBER 1 AND APRIL 15 OF ANY CALENDAR YEAR, ALL DENUDED AREAS WILL BE COVERED WITH HAY MULCH, APPLIED AT TWICE THE NORMAL APPLICATION RATE, AND (IN AREAS OVER 10% GRADE) ANCHORED WITH A FABRIC NETTING. THE TIME PERIOD FOR APPLYING MULCH SHALL BE LIMITED TO 5 DAYS FOR ALL AREAS OR IMMEDIATELY IN ADVANCE OF A PREDICTED RAINFALL EVENT.

• THE PAVED ACCESS ROADS SHALL BE SWEEPED TO CONTROL MUD AND DUST AS NECESSARY. A STREET SWEEPER SHALL BE AVAILABLE FROM THE CONTRACTOR ON IMMEDIATE NOTICE OR AS REQUESTED BY THE OWNER OR REGULATORY AGENCY.

• STONE CHECK DAMS OR HAY BALE BARRIERS WILL BE INSTALLED AT ANY EVIDENT CONCENTRATED FLOW DISCHARGE POINTS DURING CONSTRUCTION AND EARTHWORK OPERATIONS.

• SILT FENCING WITH A MAXIMUM STAKE SPACING OF 8 FEET SHOULD BE USED, UNLESS THE FENCE IS SUPPORTED BY WIRE FENCE REINFORCEMENT OF MINIMUM 14 GAUGE AND WITH A MAXIMUM MESH SPACING OF 8 INCHES, IN WHICH CASE STAKES MAY BE SPACED A MAXIMUM OF 10 FEET APART. THE BOTTOM OF THE FENCE SHOULD BE PROPERLY ANCHORED A MINIMUM OF 6" PER THE PLAN DETAIL AND BACKFILLED. ANY SILT FENCE IDENTIFIED BY THE OWNER OR REVIEWING AGENCIES AS NOT BEING PROPERLY INSTALLED DURING CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED IN ACCORDANCE WITH THE INSTALLATION DETAILS.

• STORM DRAIN CATCH BASIN INLET PROTECTION SHALL BE PROVIDED THROUGH THE USE OF STONE SEDIMENT BARRIERS OR A PREMANUFACTURED SILTSACK* AS DISTRIBUTED BY A.H. HARRIS COMPANY, PORTLAND, MAINE. STONE SEDIMENT BARRIER INSTALLATION DETAILS ARE PROVIDED IN THE PLAN SET. THE BARRIERS OR SILTSACKS* SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRS MADE AS NECESSARY, INCLUDING THE REMOVAL OF SEDIMENT. SEDIMENT SHALL BE REMOVED AND THE BARRIER OR SILTSACK* RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE BARRIER. INLET PROTECTION SHALL BE REMOVED WHEN THE TRIBUTARY DRAINAGE AREA HAS BEEN STABILIZED.

- ALL SLOPES STEEPER THAN 3:1 SHALL RECEIVE EROSION CONTROL MESH.
- ALL AREAS WHICH FEATURE NARROW ANGLES OF SLOPE INTERFACE BETWEEN PROPOSED SURFACES AND EXISTING SURFACES SHALL RECEIVE EROSION CONTROL MESH TO PREVENT SCOURING.
- ADDITIONAL SILTATION FENCES OR SEDIMENT BARRIERS SHALL BE INSTALLED AS CONSTRUCTION PROGRESSES.
- AREAS OF VISIBLE EROSION SHALL BE STABILIZED WITH CRUSHED STONE OR EQUIVALENT MEASURES.

g.STANDARDS FOR STABILIZING SITES FOR WINTER CONDITIONS

THE CONSTRUCTION OF THE PROJECT WILL EXTEND INTO THE WINTER SEASON. THE CONTRACTOR SHALL SCHEDULE WORK TO AVOID CONSTRUCTION OF STORMWATER BASINS DURING THE WINTER MONTHS. FOR PERMITTED WINTER CONSTRUCTION, THE EROSION CONTROL MEASURES ARE SUBSTANTIALLY MORE STRINGENT DUE TO COLD TEMPERATURES AND LACK OF MOISTURE WHICH AIDS IN DRYING THE SUBGRADE SOILS THROUGH EVAPORATION.

THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 15TH THROUGH MARCH 15TH. IF THE CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, AGGREGATE SUBBASE GRAVEL, 90% MATURE VEGETATION COVER OR RIPRAP PRIOR TO NOVEMBER 15TH, THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. AN AREA CONSIDERED OPEN IS ANY AREA THAT IS NOT STABILIZED WITH PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MIX, EROSION CONTROL MATS, RIPRAP OR SUBBASE GRAVEL.

DURING THE WINTER CONSTRUCTION PERIOD THE CONTRACTOR SHALL INSTALL EROSION CONTROL MIX BERMS IN LIEU OF SILT FENCE.

DURING THE WINTER CONSTRUCTION PERIOD, A DOUBLE ROW OF SEDIMENT BARRIERS SHALL BE PLACED BETWEEN ANY DRAINAGE PATH AND THE DISTURBED AREA.

IN ADDITION, DURING THE WINTER CONSTRUCTION PERIOD THE AMOUNT OF EXPOSED AREA SHALL BE LIMITED TO THAT WHICH CAN BE MULCHED WITHIN ONE DAY IN THE EVENT OF A PREDICTED STORM AND SHALL NOT EXCEED A MAXIMUM OPEN AREA OF ONE ACRE.

STANDARD FOR THE TIMELY STABILIZATION OF DITCHES AND CHANNELS: THE CONTRACTOR SHALL CONSTRUCT AND STABILIZE ALL STONE-LINED DITCHES AND CHANNELS ON THE SITE BY NOVEMBER 15TH. THE CONTRACTOR SHALL CONSTRUCT AND STABILIZE ALL GRASS LINED DITCHES AND CHANNELS ON THE SITE BY SEPTEMBER 1ST. IF THE CONTRACTOR FAILS TO STABILIZE A DITCH OR CHANNEL TO BE GRASS LINED BY SEPTEMBER 1ST, THEN THE CONTRACTOR SHALL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE DITCH FOR LATE FALL AND WINTER:

i. INSTALL A SOD LINING IN THE DITCH. THE CONTRACTOR SHALL LINE THE DITCH WITH PROPERLY INSTALLED SOD BY OCTOBER 1ST. PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL, AND ANCHORING THE SOD WITH JUTE OR PLASTIC MESH TO PREVENT THE SOD STRIPS FROM SLOUCHING DURING SLOW CONDITIONS.

ii. INSTALL A STONE LINING IN THE DITCH. THE CONTRACTOR SHALL LINE THE DITCH WITH STONE RIPRAP BY NOVEMBER 1ST. THE CONTRACTOR SHALL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE AND LINING THICKNESS NEEDED TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHIN THE DITCH. IF NECESSARY, THE CONTRACTOR SHALL REGRADE THE DITCH PRIOR TO PLACING THE STONE LINING SO AS TO PREVENT THE STONE LINING FROM REDUCING THE DITCH'S CROSS SECTIONAL AREA.

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES: THE CONTRACTOR SHALL CONSTRUCT AND STABILIZE STONE COVERED SLOPES BY NOVEMBER 15TH. THE CONTRACTOR SHALL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 1ST. A SLOPE IS CONSIDERED ANY AREA HAVING A GRADE OF GREATER THAN 15% (10H:1V). IF THE CONTRACTOR FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 1ST, THEN THE CONTRACTOR SHALL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER:

i. STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MESH. BY OCTOBER 1ST THE CONTRACTOR SHALL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET AND APPLY EROSION CONTROL MATS OVER THE MULCHED SLOPE. THE CONTRACTOR SHALL MONITOR GROWTH OF THE RYE OVER THE NEXT 45 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR FAILS TO COVER AT LEAST 75% OF THE DISTURBED SLOPE BY OCTOBER 15TH, ITS CONTAINED WITHIN THE 100' BUFFER ZONE. IF THE CONTRACTOR FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 1ST, THEN THE CONTRACTOR SHALL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER:

ii. STABILIZE THE SLOPE WITH SOD. THE CONTRACTOR SHALL STABILIZE THE DISTURBED SLOPE WITH PROPERLY INSTALLED SOD BY OCTOBER 1ST. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE CONTRACTOR SHALL NOT USE LATE-SEASON SOD INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 33% (3H: 1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.

iii. STABILIZE THE SLOPE WITH WOOD WASTE COMPOST. THE CONTRACTOR SHALL PLACE A SIX-INCH LAYER OF WOOD WASTE COMPOST ON THE SLOPE BY NOVEMBER 15TH. PRIOR TO PLACING THE WOOD WASTE COMPOST, THE CONTRACTOR SHALL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED SLOPE. THE CONTRACTOR SHALL NOT USE WOOD WASTE COMPOST TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% (2H: 1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.

iv. STABILIZE THE SLOPE WITH STONE RIPRAP. THE CONTRACTOR SHALL PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15TH. THE CONTRACTOR SHALL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOIL: BY SEPTEMBER 15TH, THE CONTRACTOR SHALL SEED AND MULCH ALL OPEN AREAS WITHIN THE PROJECT. IF THE CONTRACTOR FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE CONTRACTOR SHALL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL FOR LATE FALL AND WINTER.

i. STABILIZE THE SOIL WITH TEMPORARY VEGETATION. BY OCTOBER 1ST, THE CONTRACTOR SHALL SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1,000 SQUARE FEET, LIGHTLY MULCH THE SEEDDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1,000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC NETTING. THE CONTRACTOR SHALL MONITOR THE GROWTH OF THE RYE OVER THE NEXT 45 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR FAILS TO COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 1ST, THEN THE CONTRACTOR SHALL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ITEM II OF THIS STANDARD.

ii. STABILIZE THE SOIL WITH SOD. THE CONTRACTOR SHALL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1ST. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.

iii. STABILIZE THE SOIL WITH MULCH. BY NOVEMBER 15TH, THE CONTRACTOR SHALL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1,000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. PRIOR TO APPLYING THE MULCH, THE CONTRACTOR SHALL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED AREA. IMMEDIATELY AFTER APPLYING THE MULCH, THE CONTRACTOR SHALL ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL.

STANDARD FOR TIMELY STABILIZATION OF SOIL STOCKPILES: STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL APPLICATION RATE OR WITH A FOUR-INCH THICK LAYER OF EROSION CONTROL MIX. THIS WILL BE COMPLETED WITHIN 24-HOURS OF STOCKPILING OR RE-ESTABLISHED PRIOR TO ANY PREDICTED RAINFALL OR SNOWFALL EVENT. ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100 FEET FROM A NATURAL RESOURCE (I.E. WETLAND, ETC.).

h.SPECIAL MEASURES FOR SUMMER CONDITIONS

THE SUMMER PERIOD IS GENERALLY OPTIMUM FOR CONSTRUCTION FOR THIS SITE BUT IT IS ALSO THE PERIOD WHERE INTENSE SHORT DURATION STORMS ARE MOST COMMON MAKING DENUDED AREAS VERY SUSCEPTIBLE TO EROSION, WHERE

DUST CONTROL NEEDS TO BE THE MOST STRINGENT, AND WHERE THE POTENTIAL TO ESTABLISH VEGETATION IS OFTEN RESTRICTED BY MOISTURE DEFICIT. DURING THESE PERIODS THE CONTRACTOR MUST:

• IMPLEMENT A PROGRAM TO APPLY DUST CONTROL MEASURES ON A DAILY BASIS EXCEPT THOSE DAYS WHERE THE PRECIPITATION EXCEEDS 0.25 INCHES;

• SPRAY THE MULCH AFTER ANCHORING WITH WATER TO DAMPEN THE SOIL AND ENCOURAGE EARLY GROWTH. TEMPORARY SEED MAY BE REQUIRED UNTIL THE LATE SUMMER SEEDING SEASON.

• MULCH, COVER, AND MOISTEN STOCKPILES OF FINE-GRAINED MATERIALS THAT ARE SUSCEPTIBLE TO EROSION.

• TAKE ADDITIONAL STEPS NEEDED TO CONTROL FUGITIVE DUST EMISSIONS TO MINIMIZE REDUCTIONS IN VISIBILITY AND THE AIRBORNE DISBURSEMENT OF FINE-GRAINED SOILS. THESE MEASURES MAY ALSO BE REQUIRED IN THE SPRING AND FALL DURING THE DRIER PERIODS OF THESE SEASONS.

i.PERMANENT EROSION CONTROL MEASURES

THE FOLLOWING PERMANENT EROSION CONTROL MEASURES HAVE BEEN DESIGNED AS PART OF THE EROSION AND SEDIMENTATION CONTROL PLAN:

• THE DRAINAGE CONVEYANCE SYSTEMS HAVE BEEN DESIGNED TO INTERCEPT AND CONVEY THE 25-YEAR STORM, IN THE CASE OF OPEN CHANNELS OR SWALES, THIS INCLUDES THE DESIGN OF MEASURES TO RESIST SCOUR OF THE CHANNEL.

• ALL AREAS DISTURBED DURING CONSTRUCTION, BUT NOT SUBJECT TO OTHER RESTORATION (CONCRETE) WILL BE LOAMED, LIMED, FERTILIZED, MULCHED, AND SEEDED. FABRIC NETTING, ANCHORED WITH STAPLES, SHALL BE PLACED OVER THE MULCH IN AREAS WHERE THE FINISH GRADE SLOPE IS GREATER THAN 10 PERCENT. NATIVE TOPSOIL SHALL BE STOCKPILED AND TEMPORARILY STABILIZED WITH SEED AND MULCH AND REUSED FOR FINAL RESTORATION WHEN IT IS OF SUFFICIENT QUALITY.

j.TIMING AND SEQUENCE OF THE EROSION CONTROL MEASURES

THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE REQUIRED TO INSURE THE EFFECTIVENESS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES ARE OPTIMIZED.

NOTE: FOR ALL GRADING ACTIVITIES, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO OVEREXPOSE THE SITE BY LIMITING THE DISTURBED AREA AND SHALL STABILIZE ANY STEEP SLOPES WITHIN 24 HOURS IF FINAL SLOPE GRADING AND STABILIZATION WILL NOT BE COMPLETED WITHIN 7 DAYS. ANY FINAL SLOPES SHALL HAVE THE SPECIFIED EROSION CONTROL MEASURES INSTALLED WITHIN 7 DAYS OF FINAL STABILIZATION.

• INSTALL CRUSHED STONE-STABILIZED CONSTRUCTION ENTRANCES AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN.

• MARK THE GRADING AND CLEARING LIMITS AND INITIATE CLEARING THAT WILL PERMIT THE CONTRACTOR TO ACCESS THE SITE AND INSTALL SILT FENCE.

• INSTALL SILTATION FENCE WHERE SHOWN ON THE CONTRACT DRAWINGS. DURING PERIODS OF NOVEMBER 1ST THROUGH APRIL 15TH, THE CONTRACTOR SHALL INSTALL EROSION CONTROL MIX BERMS IN LIEU OF SILT FENCE.

• ANY AND ALL MATERIALS ASSOCIATED WITH THE CONSTRUCTION OF THE SOLAR ENERGY FACILITY SHALL BE STOCKPILED ON THE SITE.

• SCARIFY EXISTING AREAS AND OVER-SOW COVER CROP OF SEED MIX SHOWN ON SHEET C121 LANDSCAPING PLAN.

• INSTALL CONSTRUCTION AND MAINTENANCE DRIVES AS SHOWN ON THE PLANS.

• INSTALL 7 FOOT CHAIN LINK FENCE OR EQUAL AT LIMIT OF WORK.

• ESTABLISH AND PREPARE FILTER BAG AREAS.

• CONSTRUCT DIVERSION AND DRAINAGE CHANNELS.

• INSTALL STONE AND HAY BALE CHECK DAMS AT ANY CONCENTRATED FLOW DISCHARGE POINTS.

• REMOVE ALL ACCUMULATED SEDIMENT FROM SILT BARRIERS.

• REVIEW STABILITY OF THE SITE. REMOVAL OF EROSION CONTROL MEASURES SHALL BE PERFORMED WITHIN 30 DAYS OF ESTABLISHING PERMANENT STABILIZATION. PERMANENT STABILIZATION IN MEADOW AREAS IS ESTABLISHED WITH 90% CATCH OF MEADOW WITH NO EVIDENCE OF RILLING OR EROSION.

THIS SEQUENCE IS APPLICABLE TO ALL PHASES OF THE PROJECT.

SOIL WILL BE CONSIDERED DISTURBED IF IT DOES NOT HAVE AN ESTABLISHED STAND OF VEGETATION COVERING AT LEAST 90% OF THE SOIL SURFACE OR HAS NOT BEEN MULCHED WITH HAY APPLIED AT A RATE OF 230 LB/1,000 SQ. FT.

k.PROVISIONS FOR MAINTENANCE OF THE EROSION CONTROL MEASURES

THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF A US EPA NPDES PERMIT AND AN ACCOMPANYING STORMWATER POLLUTION PREVENTION PLAN (SWPPP.) THESE DOCUMENTS REQUIRE THE CONTRACTOR TO PREPARE A LIST AND DESIGNATE BY NAME, ADDRESS AND TELEPHONE NUMBER ALL INDIVIDUALS WHO WILL BE RESPONSIBLE FOR IMPLEMENTATION, INSPECTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES IDENTIFIED WITHIN THIS SECTION AND AS CONTAINED WITHIN THE CONTRACT DRAWINGS. SPECIFIC RESPONSIBILITIES OF THE INSPECTOR(S) WILL INCLUDE, BUT NOT BE LIMITED TO:

• EXECUTION OF THE CONTRACTOR/SUBCONTRACTOR CERTIFICATION BY ANY AND ALL PARTIES RESPONSIBLE FOR EROSION CONTROL MEASURES ON THE SITE AS REQUIRED BY THE SWPPP.

• ASSURING AND CERTIFYING THE OWNER'S CONSTRUCTION SEQUENCE IS IN CONFORMANCE WITH THE SPECIFIED SCHEDULE OF THIS SECTION. A WEEKLY CERTIFICATION STATING COMPLIANCE, ANY DEVIATIONS, AND CORRECTIVE MEASURES NECESSARY TO COMPLY WITH THE EROSION CONTROL REQUIREMENTS OF THIS SECTION SHALL BE PREPARED AND SIGNED BY THE INSPECTOR(S).

• IN ADDITION TO THE WEEKLY CERTIFICATIONS, THE INSPECTOR(S) SHALL MAINTAIN WRITTEN REPORTS RECORDING CONSTRUCTION ACTIVITIES ON SITE WHICH INCLUDE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR IN A PARTICULAR AREA; DATES WHEN MAJOR CONSTRUCTION ACTIVITIES CEASE IN A PARTICULAR AREA, EITHER TEMPORARILY OR PERMANENT; DATES WHEN AN AREA IS STABILIZED.

• INSPECTION OF THE PROJECT WORK SITE AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND BEFORE AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.25 INCHES OR MORE IN ANY 24-HOUR PERIOD) DURING CONSTRUCTION UNTIL PERMANENT EROSION CONTROL MEASURES HAVE BEEN PROPERLY INSTALLED AND THE SITE HAS BEEN STABILIZED. INSPECTION OF THE PROJECT WORK SITE SHALL INCLUDE:

A.IDENTIFICATION OF PROPER EROSION CONTROL MEASURE INSTALLATION IN ACCORDANCE WITH THE EROSION CONTROL DETAIL SHEET OR AS SPECIFIED IN THIS SECTION.

B.DETERMINE WHETHER EACH EROSION CONTROL MEASURE IS PROPERLY OPERATING. IF NOT, IDENTIFY DAMAGE TO THE CONTROL DEVICE AND DETERMINE REMEDIAL MEASURES.

C.IDENTIFY AREAS THAT APPEAR VULNERABLE TO EROSION AND DETERMINE ADDITIONAL EROSION CONTROL MEASURES THAT SHOULD BE USED TO IMPROVE CONDITIONS.

D.INSPECT AREAS OF RECENT SEEDING TO DETERMINE PERCENT CATCH OF GRASS. A MINIMUM CATCH OF 90 PERCENT IS REQUIRED PRIOR TO REMOVAL OF EROSION CONTROL MEASURES.

E.RECORD DATE OF INSTALLATION OF SORBENT BAGS IN CATCH BASINS, DATES REMOVED, AND THE DISPOSAL METHOD AND LOCATION.

• IF INSPECTION OF THE SITE INDICATES A CHANGE SHOULD BE MADE TO THE EROSION CONTROL PLAN, EITHER TO IMPROVE EFFECTIVENESS OR CORRECT A SITE-SPECIFIC DEFICIENCY, THE INSPECTOR SHALL IMMEDIATELY IMPLEMENT THE CORRECTIVE MEASURE AND NOTIFY THE OWNER OF THE CHANGE.

ONCE CONSTRUCTION HAS BEEN COMPLETED, LONG TERM MAINTENANCE OF THE FACILITIES WILL BE THE RESPONSIBILITY OF THE APPLICANT.

l.PRECONSTRUCTION CONFERENCE

PRIOR TO ANY CONSTRUCTION AT THE SITE, REPRESENTATIVES OF THE CONTRACTOR, TOWN OFFICIALS, AND THE SITE DESIGN ENGINEER SHALL ARRANGE TO MEET WITH THE OWNER TO DISCUSS THE SCHEDULING OF THE SITE CONSTRUCTION, AND THE DESIGNATION OF THE RESPONSIBLE PARTIES FOR IMPLEMENTING THE PLAN. THIS MEETING SHALL BE SCHEDULED BY THE CONTRACTOR WITH REASONABLE ADVANCE NOTICE FOR ALL ATTENDEES. PRIOR TO THE MEETING, THE CONTRACTOR SHALL PREPARE A DETAILED SCHEDULE AND A MARKED-UP SITE PLAN INDICATING THE AREAS AND COMPONENTS OF THE WORK AND KEY DATES SHOWING DATE OF DISTURBANCE AND COMPLETION OF THE WORK. IF BID THROUGH A GENERAL CONTRACTOR, THE GENERAL CONTRACTOR'S SUPERINTENDENT SHALL PROVIDE A WRITTEN ACKNOWLEDGEMENT THAT THE EROSION CONTROL PLAN HAS DEFINITIVE DATES FOR IMPLEMENTATION THAT MAY

SUPERSEDE THE BUILDING SCHEDULE. THE CONTRACTOR SHALL CONDUCT A MEETING WITH EMPLOYEES AND SUB-CONTRACTORS TO REVIEW THE EROSION CONTROL PLAN, THE CONSTRUCTION TECHNIQUES WHICH WILL BE EMPLOYED TO IMPLEMENT THE PLAN, AND PROVIDE A LIST OF ATTENDEES AND ITEMS DISCUSSED AT THE MEETING TO THE OWNER. THREE COPIES OF THE SCHEDULE, THE CONTRACTOR'S MEETING MINUTES, AND MARKED-UP SITE PLAN SHALL BE PROVIDED TO THE OWNER AT THE PRECONSTRUCTION MEETING.

m. TEMPORARY SEDIMENT BASINS

A. TO MINIMIZE IMPACT ON THE INFILTRATION CAPACITY OF THE FINAL INFILTRATION BASIN, TEMPORARY SEDIMENT BASINS SHOULD BE EXCAVATED TO NO DEEPER THAN 12" ABOVE THE FINAL BOTTOM OF THE INFILTRATION BASIN ELEVATION.

B. THE APPLICANT SHALL MONITOR TEMPORARY SEDIMENT BASINS DURING CONSTRUCTION TO CONFIRM THAT THE BASIN IS DEWATERING WITHIN 72 HOURS.

C. FOLLOWING STABILIZATION OF ALL TRIBUTARY AREAS AND FLUSHING/CLEANING OF THE UPSTREAM CLOSED DRAINAGE SYSTEM, THE INFILTRATION BASIN SHALL BE EXCAVATED TO FINAL GRADES AND STABILIZED.

BEALS ASSOCIATES INC.

200 PORTLAND STREET, 5TH FLOOR
BOSTON, MA 02116
PHONE: 617-242-3110
FAX: 617-242-3111
•PLANNING •ENGINEERING •PERMITTING •MANAGEMENT

Applicant

Bartzak PVI LLC
200 Portland Street, 5th Floor
Boston, MA 02114

10'-0" MAX.
END, CORNER, & INTERMEDIATE PANEL

8'-0" SEE PLANS FOR LOCATION

RAIL TIES SPACED MAX. 18" APART

POST TIES OR CLIPS SPACED MAX. 15" APART

BRACE RAIL, AS REQ'D WITH TIES @ 18" O.C.

4" GAP BETWEEN FENCE FABRIC AND FINISHED GRADE

CONC. FOOTING ON ALL CORNER, GATE AND END CONDITIONS

TOP AND BOTTOM SALVAGE TO HAVE FINISH AND BARBED TWIST UNLESS OTHERWISE NOTED

TYP. POST CAP

3" DIA. CORNER/END POST

1/4" x 3/4" FLAT STRETCHER BAR

1/4" x 3/4" BANDS & STRETCHER BARS @ CORNER/END POSTS @ 12" INTERVALS

3/8" TRUSS ROD THREADED BOTH ENDS

FINISH GRADE

1-5/8" MIN. BOTTOM BRACE OR TENSION WIRE

12" DIA.

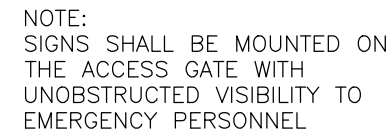
2"

3"

TYPICAL CHAIN LINK FENCE WITH GAP

TYPICAL CHAIN LINK
FENCE WITH GAP
N.T.S.

DET NO
1-2.3



CHAIN LINK SECURITY GATE DETAIL

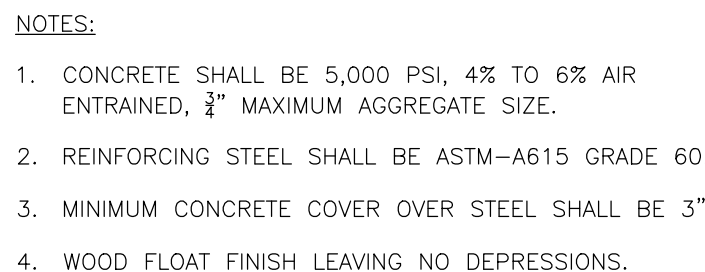
N.T.S.

DET NO
1-2.3



TYPICAL REGULATORY SIGNAGE

N.T.S

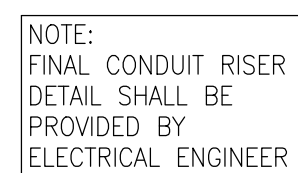


CONCRETE PAD DETAIL

N.T.S.

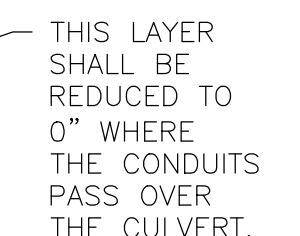
NOTE:
FINAL CONCRETE PAD DETAIL SHALL BE PROVIDED
BY STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

NOTE:
FINAL CONCRETE PAD DETAIL SHALL BE PROVIDED
BY STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.



TYPICAL RISER TO UTILITY POLE

N.T.S.

DET NO
14

ELECTRICAL CONDUIT DUCTBANK

N.T.S

NOTES:

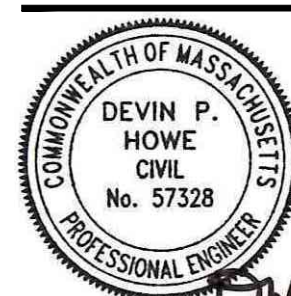
1. THIS DETAIL SHALL BE USED ONLY FOR THE UNDERGROUND LINES BETWEEN THE TRANSFER STATIONS AND THE EXISTING GRID.
2. UNDERGROUND ELECTRICAL LINES FROM PANEL TO PANEL AND BETWEEN OTHER APPURTENANCES MAY BE INSTALLED IN CONDUIT THAT IS DIRECT BURIED WITHOUT CONCRETE.
3. IN ALL CIRCUMSTANCES, ALL UNDERGROUND ELECTRICAL CONDUIT SHALL FEATURE "BURIED CABLE WARNING TAPE 24" BELOW GRADE.

**Large-Scale Solar Power
Generation System**
0 Bartzak Drive,
Holliston, MA

Revised per Town and peer review comments	2022.10.11
Revised per resource area delineations	2023.04.25
Revised per Town comments	2023.05.10
Revision	Date

1. _____
2. _____
3. _____

_____ №:



Dr. Howe
05.11.2023

Not for Construction

Permit

Documents

Designed by: DPH	Checked by: TPM
Proj. No.: C-1278	Issue Date: 07.27.2
Drawing Scale: N.T.S	

Sheet Title

DETAILS

Sheet Number

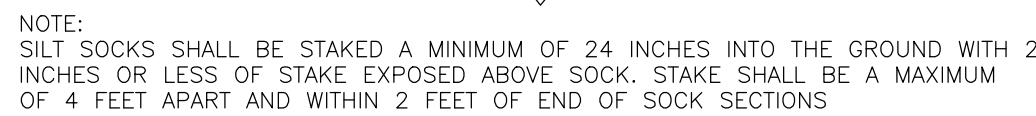
C200



- DET NO
47



DET NO
4-21



- DET NO
4-22

