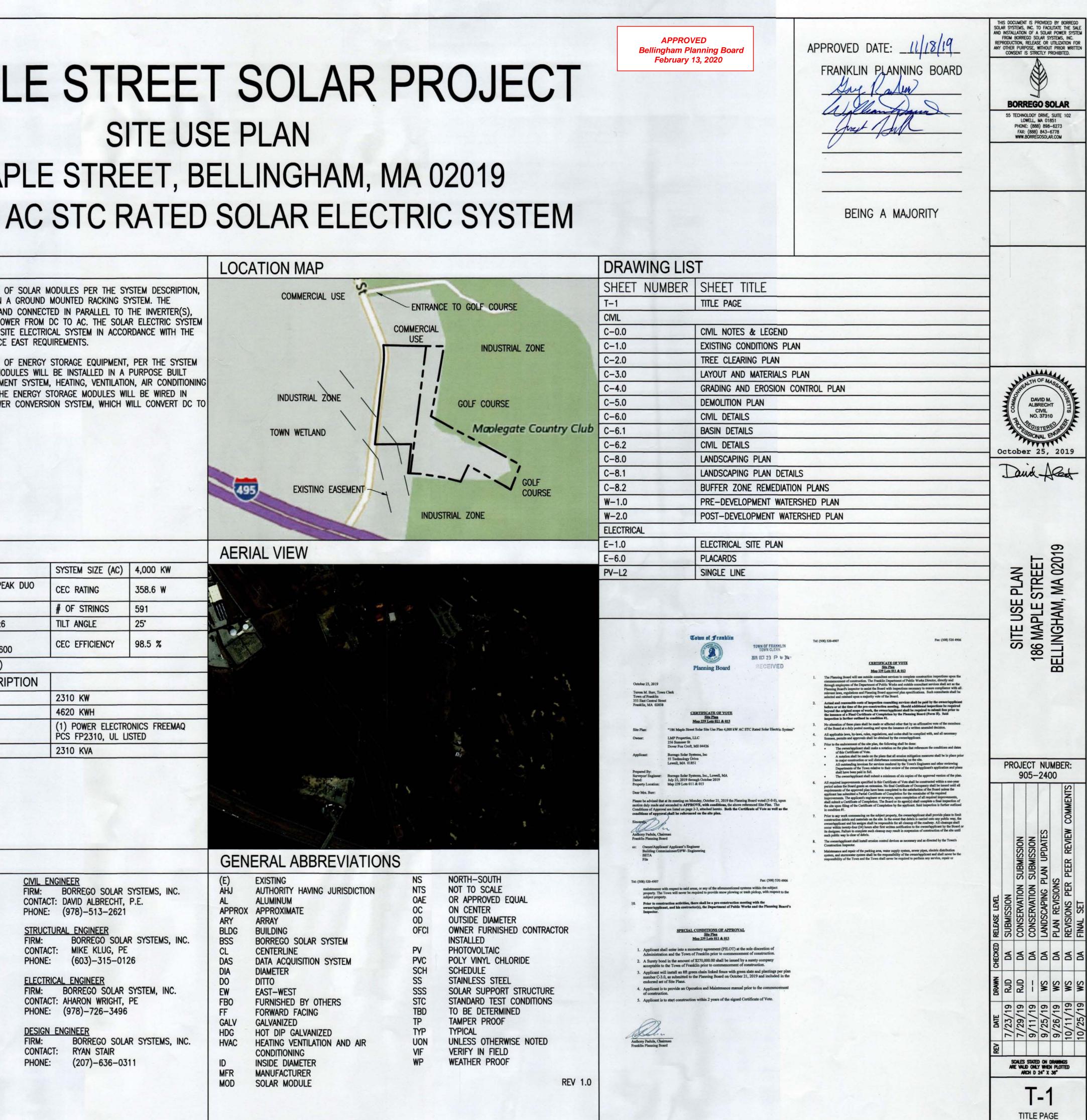
186 MAPLE STREET SOLAR PROJECT SITE USE PLAN 186 MAPLE STREET, BELLINGHAM, MA 02019 4,000.00 kW AC STC RATED SOLAR ELECTRIC SYSTEM

GENERAL NOTES	PROJECT SC	COPE			LOCATION MAP	
 AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE BORREGO SOLAR SYSTEMS, INC AND "SUBCONTRACTOR" IS BORREGO'S INSTALLATION SUBCONTRACTOR. THESE NOTES SET MINIMUM STANDARDS FOR CONSTRUCTION. THE DRAWINGS GOVERN OVER THESE NOTES TO THE EXTENT SHOWN. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: LOCAL BUILDING CODE, LOCAL ELECTRICAL CODE, ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES AND STANDARDS LISTED IN THESE DRAWINGS AND IN THE SUBCONTRACTOR AGREEMENT. EXCEPTIONS TO THE CONTRACT DOCUMENTS ARE PERMITTED ONLY WITH THE APPROVAL OF BORREGO. COORDINATE THESE DRAWINGS WITH SPECIFICATIONS AND MANUFACTURER INSTALLATION AND OPERATION MANUALS AND NOTIFY BORREGO OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK. DRAWINGS HAVE BEEN DETAILED IN COMPLIANCE WITH U.L. LISTING REQUIREMENTS AND THE BUILDING CODE FOR THE MATERIALS SPECIFICATIONS AND MANUFACTURER INSTALLATION MAT OPERATION MANUALS AND NOTIFY BORREGO, THE SUBCONTRACTOR WILL ASSUME THE RESPONSIBILITY FOR WHATEVER CONSTRUCTION MODIFICATION AND/OR ADDITIONAL COST THAT IS REQUIRED BY REASON OF THIS ACCEPTANCE. PRIOR TO THE COMMENCEMENT OF ANY WORK, EACH TRADE SHALL VERIFY EXISTING CONDITIONS AND NOTIFY BORREGO OF ANY DISCREPANCIES TO THAT WHICH IS SHOWN IN THESE DRAWINGS, INCLUDING BUT NOT LIMITED TO DIMENSIONS OF THE WORK AREA, STRUCTURE, EXISTING ELECTRICAL SERVICE, CONDUIT PATHS, OBSTRUCTIONS, ACCESSIBILITY ISSUES, AND WORKING CLEARANCESS. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE 	THIS PROJECT CONSISTS OF THE INSTALLATION OF SOLAR MODULES PER THE SYSTEM DESCRIPTION, BELOW. THE MODULES WILL BE INSTALLED ON A GROUND MOUNTED RACKING SYSTEM. THE MODULES WILL BE WIRED IN SERIES STRINGS AND CONNECTED IN PARALLEL TO THE INVERTER(S), WHICH CONVERT THE PHOTOVOLTAIC OUTPUT POWER FROM DC TO AC. THE SOLAR ELECTRIC SYSTEM WILL BE INTERCONNECTED WITH THE EXISTING SITE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE APPLICABLE ELECTRICAL CODE AND EVERSOURCE EAST REQUIREMENTS. THIS PROJECT CONSISTS OF THE INSTALLATION OF ENERGY STORAGE EQUIPMENT, PER THE SYSTEM DESCRIPTION, BELOW. THE ENERGY STORAGE MODULES WILL BE INSTALLED IN A PURPOSE BUILT CONTAINER WITH INTEGRATED BATTERY MANAGEMENT SYSTEM, HEATING, VENTILATION, AIR CONDITIONING UNIT(S), AND FIRE SUPPRESSION SYSTEMS. THE ENERGY STORAGE MODULES WILL BE WIRED IN SERIES STRINGS AND CONNECTED TO THE POWER CONVERSION SYSTEM, WHICH WILL CONVERT DC TO AC WHILE THE BATTERIES ARE DISCHARGING.				G INDUSTRIAL ZONE	ENTRANCE TO GOLF COURSE COMMERCIAL USE INDUSTRIAL ZONE GOLF COURSE Maolegate Country C GOLF COURSE INDUSTRIAL ZONE
8. SUBCONTRACTOR AT HIS OWN EXPENSE. 8. SUBCONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO BORREGO FOR	PV SYSTEM DESC	RIPTION			AERIAL VIEW	
APPROVAL PRIOR TO MAKING ANY CHANGES. APPROVED CHANGES REQUIRE A DRAWING REVISION TO MAINTAIN CONTROL OVER THE APPROVED DESIGN. DEVIATION FROM THESE	SYSTEM SIZE (DC STC)		SYSTEM SIZE (AC)	4.000 KW		
9. UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT ARE NEW.	MODULES	(15957) HANWHA Q.PEAK DUO	CEC RATING	358.6 W		
10. ALL ITEMS TO BE REMOVED AND RELOCATED OR REPLACED SHALL BE HANDLED WITH PROPER CARE AND STORED IN A SAFE PLACE TO PREVENT DAMAGE; OR BE REPLACED AT	MODULES PER STRING	L-G5.3 390W	# OF STRINGS	591		
THE SUBCONTRACTOR'S EXPENSE.	RACKING	TERRASMART TF3L 4x6	TILT ANGLE	25		C VA THE
11. ALL EQUIPMENT SHALL BE MOUNTED AS SHOWN. WHERE DETAILS ARE NOT PROVIDED, THE SUBCONTRACTOR SHALL USE DILIGENT EFFORTS TO MOUNT EQUIPMENT SUCH THAT IT WILL BE CLEAN, LEVEL AND SOLID.	INVERTER(S)	(32) CHINT CPS SCH125KTL-D0/US-600	CEC EFFICIENCY	98.5 %		
12. ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND NEW DEVICES AND EQUIPMENT TO MATCH EXISTING FINISHES.	AZIMUTH	180° (SOUTH = 180°)				
13. ANY METAL SHAVINGS RESULTING FROM SITE WORK SHALL BE CLEANED FROM ROOF	ENERGY STORAGE SYSTEM DESCRIPTION					
SURFACES, ENCLOSURES AND ANY ADDITIONAL AREAS WHERE OXIDIZED OR CONDUCTIVE METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS OR OTHER DAMAGE.	SYSTEM AC POWER		2310 KW			
14. NO STRUCTURAL MEMBER SHALL BE DRILLED UNLESS SPECIFICALLY AUTHORIZED BY BORREGO.	SYSTEM ENERGY CAPACIT	Y	4620 KWH			1 · · · · · · · · · · · · · · · · · · ·
15. SUBCONTRACTOR ACKNOWLEDGES THAT THE SYSTEM AS INDICATED ON THE PLANS REQUIRES ALL COMPONENTS TO BE INSTALLED TO PROPERLY RESIST WIND LOADS, SUCH AS BALLAST,	POWER CONVERSION SYSTEM INFORMATION (1) POWER ELECTRONICS FREEMAQ PCS FP2310, UL LISTED					
WIND DEFLECTORS, ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE TEMPORARY MEANS TO RESIST WIND LOADS FOR ALL COMPONENTS NOT YET INSTALLED DURING AND AFTER REGULAR WORKING HOURS. THIS MAY INCLUDE TEMPORARY TIE DOWNS, COVERING, BALLAST OR ANY OTHER MEANS. DAMAGE TO ANY INSTALLED SYSTEM COMPONENT OR THE EXISTING FACILITY AS A RESULT OF THE UNFINISHED CONDITION NOT ADEQUATELY RESISTING WIND SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR TO REPAIR OR REPLACE AT THE SUBCONTRACTOR'S COST. 16. TREES MAY GROW DURING THE LIFE OF THE SYSTEM AND IMPACT THE PRODUCTION. V.7	TRANSFORMER CAPACTIY		2310 KVA			
APPLICABLE CODES AND STANDARDS	PROJECT DI	RECTORY			GENERAL ABBREVIATION	S
2017 MASSACHUSETTS ELECTRICAL CODE 527 CMR12.00 MASSACHUSETTS BUILDING CODE 9TH EDITION UL-1703 - SOLAR MODULES UL-1741 - INVERTERS, COMBINER BOXES UL-2703 - RACKING MOUNTING SYSTEMS AND CLAMPING DEVICES FOR PV MODULES UL-1642 - STANDARD FOR LITHIUM BATTERIES UL-1973 - STANDARD FOR BATTERIES FOR USE IN LIGHT ELECTRIC RAIL (LER) APPLICATIONS AND STATIONARY APPLICATIONS UL-9540 - STANDARD FOR ENERGY STORAGE SYSTEMS AND EQUIPMENT	SYSTEM / PROJECT O TBD LAND OWNER / HOST LMP PROPERTIES, LLO (207) 831–1030 186 MAPLE STREET BELLINGHAM, MA 0201 AUTHORITY HAVING JU TOWN OF BELLINGHAM 10 MECHANIC STREET BELLINGHAM, MA 0201 UTILITY EVERSOURCE EAST	FIRM: CONT. PHON STRU FIRM: CONT PHON PHON IRISDICTION INISDICTION	ACT: MIKE KLUG, PE IE: (603)-315-01 IRICAL ENGINEER BORREGO SOLAR ACT: AHARON WRIGHT, IE: (978)-726-3496 <u>SN ENGINEER</u> BORREGO SOLA ACT: RYAN STAIR	P.E. AR SYSTEMS, INC. 26 SYSTEM, INC. PE 3 AR SYSTEMS, INC.	(E)EXISTINGAHJAUTHORITY HAVING JURISDICTIONALALUMINUMAPPROXAPPROXIMATEARYARRAYBLDGBUILDINGBSSBORREGO SOLAR SYSTEMCLCENTERLINEDASDATA ACQUISITION SYSTEMDIADIAMETERDODITTOEWEAST-WESTFBOFURNISHED BY OTHERSFFFORWARD FACINGGALVGALVANIZEDHDGHOT DIP GALVANIZEDHVACHEATING VENTILATION AND AIR CONDITIONINGIDINSIDE DIAMETERMFRMANUFACTURERMODSOLAR MODULE	NS NORTH-SOUTH NTS NOT TO SCALE OAE OR APPROVED EQUAL OC ON CENTER OD OUTSIDE DIAMETER OFCI OWNER FURNISHED CONTRACTOR INSTALLED PV PHOTOVOLTAIC PVC POLY VINYL CHLORIDE SCH SCHEDULE SS STAINLESS STEEL SSS SOLAR SUPPORT STRUCTURE STC STANDARD TEST CONDITIONS TBD TO BE DETERMINED TP TAMPER PROOF TYP TYPICAL UON UNLESS OTHERWISE NOTED VIF VERIFY IN FIELD WP WEATHER PROOF



BELLINGHAM APPROVALS

- 1. ORDER OF CONDITIONS (TBD)
- 2. SITE PLAN APPROVAL (TBD)

FRANKLIN APPROVALS

- 1. REQUEST FOR DETERMINATION OF APPLICABILITY APPROVED ON AUGUST 22, 2019
- 2. SITE PLAN APPROVAL APPROVED ON OCTOBER 21, 2019. CERTIFICATE OF VOTE SIGNED ON OCTOBER 23, 2019. SEE CONDITIONS ON SHEET T-1.0.

GENERAL NOTES

- 1. AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE BORREGO SOLAR SYSTEMS, INC., "SUBCONTRACTOR" IS BORREGO'S INSTALLATION SUBCONTRACTORS (INCLUDING SITE WORK SUBCONTRACTOR) AND CIVIL ENGINEER OF RECORD (CEOR) IS BORREGO SOLAR SYSTEMS, INC.'S IN-HOUSE CIVIL ENGINEER.
- EXISTING CONDITIONS SURVEY INFORMATION WAS PREPARED BY NORTHEAST SURVEY CONSULTANTS PERFORMED ON 01/02/2019. HORIZONTAL DATUM IS REFERENCED TO THE MASSACHUSETTS COORDINATE SYSTEM NORTH AMERICAN DATUM 1983. THE VERTICAL DATUM IS REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988.
- THERE IS NO GUARANTEE THAT ALL THE EXISTING UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT LIMITS ARE ON THIS DRAWING. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGOUND UTILITIES BEFORE STARTING WORK AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK. BEFORE COMMENCING WORK CONTACT "DIG SAFE SYSTEM, INC." AT 1-888-344-7233 AND PROVIDE 72 HOURS NOTICE.
- THE SUBCONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT TO BORREGO.
- THE MIDDLESEX COUNTY APPROVAL SHALL BE KEPT ON SITE AT ALL TIMES.
- 6. PRIOR TO CONSTRUCTING THE SITE ENTRANCE ONTO MAPLE STREET THE CONTRACTOR SHALL OBTAIN A HIGHWAY/DRIVEWAY PERMIT FROM THE BELLINGHAM DEPARTMENT OF PUBLIC WORKS.
- THE CONTRACTOR SHALL ALLOW BELLINGHAM/FRANKLIN OFFICIALS ON SITE DURING CONSTRUCTION HOURS ONLY AND AS LONG AS ALL SAFETY MEASURES ARE IN PLACE.
- 8 THE CONTRACTOR SHALL CONTACT "DIG SAFE SYSTEM, INC." AT 1-888-344-7233 AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANIES TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
- SUBCONTRACTOR(S) SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
- 10. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE CONTRACTOR/CEOR FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION.
- 11. CONTRACTOR PARKING AREA(S) SHALL BE AS DESIGNATED ON THESE PLANS UNLESS OTHER AREAS APPROVED BY BORREGO SOLAR SITE SUPERINTENDENT. PARKING AREAS SHALL BE CONSTRUCTED USING A MINIMUM OF 6-INCHES OF GRAVEL 3-INCH MINUS) AND SURROUNDED BY AN ORANGE SNOW FENCE. POST-CONSTRUCTION THE PARKING AREA(S) SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS, INCLUDING, BUT NOT LIMITED TO REGRADING, LOAMING AND SEEDING. IN NO CASE SHALL PARKING AREAS, LAYDOWN AREAS, CONSTRUCTION TRAILERS. AND PORTABLE TOILETS BE LOCATED WITHIN A WETLAND RESOURCE AREA AND/OR ANY BUFFER ZONES.
- II. SITE PREPARATION NOTES
- AREAS DESIGNATED FOR CLEARING SHALL BE CLEARED ONLY. NO GRUBBING OR STRIPPING OF TOPSOIL IS NECESSARY, UNLESS SPECIFICALLY SHOWN OTHERWISE AND APPROVAL HAS BEEN GIVEN BY THE CONTRACTOR.
- TREE REMOVAL SHALL BE IN ACCORDANCE WITH APPROVED LOCAL, STATE, AND FEDERAL PERMITS. TREES TO BE REMOVED SHALL BE MARKED BY BORREGO SUPERINTENDENT OR AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK ON-SITE.
- NOT USED.
- 4. THE SUBCONTRACTOR(S) IS/ARE RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONDITIONS TO REMAIN THAT ARE DUE TO SUBCONTRACTOR(S) OPERATIONS.
- ITEMS TO BE REMOVED THAT ARE NOT STOCKPILED FOR LATER REUSE ON THE PROJECT OR DELIVERED TO THE OWNER SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE SUBCONTRACTOR(S).
- 6. THE SUBCONTRACTOR(S) SHALL BE RESPONSIBLE FOR COORDINATING THEIR EFFORTS WITH ALL TRADES.
- 7. THE SUBCONTRACTOR(S) SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY
- 8. THE SUBCONTRACTOR(S) SHALL MAINTAIN OR ADJUST TO NEW FINISH GRADE AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MAN HOLES, CATCH BASINS HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED OR DIRECTED BY THE CONTRACTOR/CEOR.
- THE PAVEMENT GRINDINGS IN THE PORTION OF THE SITE IN FRANKLIN SHALL BE SWEPT CLEAN OF LOOSE GRANULAR MATERIALS PRIOR TO COMPLETION OF THE DETENTION BASIN. III. EROSION AND SEDIMENT CONTROL MEASURES
- 1. (MA) A CONSTRUCTION GENERAL PERMIT SHALL BE IN PLACE PRIOR TO COMMENCING ANY EARTH DISTURBANCE. THE CGP PERMIT # IS ____, ISSUED ON ___, 2019.
- EROSION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGED CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED EROSION CONTROL PLAN INCLUDING SCHEDULE FOR APPROVAL BY THE TOWN OF BELLINGHAM/FRANKLIN. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
- 4. SEDIMENT BARRIERS SHALL BE INSPECTED AND APPROVED BY THE TOWNS OF BELLINGHAM AND FRANKLIN, OR THEIR AUTHORIZED REPRESENTATIVE AND THE CONTRACTOR/CEOR BEFORE CONSTRUCTION CAN START.
- STRAW BALES AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE OF NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY WHEN INSTALLED.
- 6. THE UNDERSIDE OF STRAW BALES SHOULD BE KEPT IN CLOSE CONTACT (TRENCHED IN 3-INCHES MINIMUM) WITH THE EARTH AND RESET AS NECESSARY.
- DISTURBED AREAS SHALL BE BLANKETED OR SEEDED AND MULCHED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. ALL ERODABLE/BARE AREAS SHALL BE BLANKETED OR SEEDED AND MULCHED WITHIN 7 DAYS WITH TEMPORARY EROSION CONTROL SEEDING.

GENERAL CIVIL NOTES

- 8. STABILIZE SLOPES GREATER THAN 3:1 (HORIZONTAL: VERTICAL) WITH SEED, SECURED GEOTEXTILE FABRIC, SPRAYED COMPOST BLANKET, OR RIP-RAP AS REQUIRED TO PREVENT EROSION DURING CONSTRUCTION.
- SEDIMENT BARRIERS SHALL BE CONSTRUCTED AROUND ALL SOIL STOCKPILE AREAS. 10. CLEAN OUT PROJECT DRAINAGE FEATURES AND STRUCTURES (I.E. CULVERTS, BASINS,
- SWALES, ETC.) AFTER COMPLETION OF CONSTRUCTION.
- 11. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE SEDIMENT CONTROL MEASURE.
- 12. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE SUBCONTRACTOR(S) SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AT THE CONTRACTOR/CEOR DIRECTION.
- 13. AFTER THE REMOVAL OF TEMPORARY EROSION CONTROL MEASURES, THE SUBCONTRACTOR(S) SHALL GRADE AND SEED AREA OF TEMPORARY EROSION CONTROL MEASURE. 14. DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION OR AS DIRECTED BY THE CONTRACTOR/CEOR.
- 15. THE CONTRACTOR'S SITE SUPERINTENDENT IS RESPONSIBLE FOR DAILY INSPECTIONS, MAINTENANCE, AND DIRECTING REPAIR ACTIVITIES. IN ACCORDANCE WITH THE SPDES REQUIREMENTS. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES TWICE EVERY SEVEN (7) CALENDAR DAYS (IF GREATER THAN 5 ACRES IS TO BE DISTURBED AT ANY ONE TIME) OR ONCE EVERY FOURTEEN (14) DAYS AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/2 INCH PRECIPITATION. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS.
- 16. PIPE OUTLETS (IF ANY) SHALL BE STABILIZED WITH STONE. REFER TO DETAILS. 17. TEMPORARY SEEDING SHALL BE AT A RATE OF 45 LBS PER ACRE. ERODABLE AREAS OUTSIDE AND DOWN SLOPE FROM THE CONSTRUCTION LIMITS SHALL BE SIMILARLY SEEDED. REFER TO SITE PLANS FOR SEEDING SPECIFICATIONS.
- 18. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED. DEWATERING PLAN SHALL BE SUBMITTED FOR APPROVAL BY THE CEOR AND ADDED TO THE SWPPP.
- 19. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY CONTRACTOR/CEOR
- 20. GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY
- 21. NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. NO RE-FUELING SHALL OCCUR WITHIN 100 FEET OF ANY WETLAND RESOURCE AREA. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE. 22. THE COST OF REPAIRING EROSION CONTROL MEASURES OR REMOVING SEDIMENT FROM EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE
- APPLICABLE EROSION CONTROL ITEM.
- 23. EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL. CONTRACTOR SHALL PROVIDE TO THE CONSERVATION COMMISSION MEASURES (EROSION AND SEDIMENTAITON CONTROL) FOR WORK DURING WINTER CONDITIONS.
- 24. CONTRACTOR SHALL SPRAY WATER FROM A WATER TRUCK ON DRY AND WINDY DAYS TO PREVENT DUST FROM FORMING. OTHER ALLOWED FORMS OF DUST CONTROL SHALL BE SUBMITTED TO CONTRACTOR/CEOR PRIOR TO USE.
- 25. EROSION CONTROL MEASURES AS SHOWN ON THESE DRAWINGS IS INTENDED TO CONVEY MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES AS NECESSARY TO PREVENT SOIL EROSION AND TO COMPLY WITH THE PROJECT'S CONSTRUCTION GENERAL PERMIT STORMWATER POLLUTION PREVENTION PLAN.
- 26. SOILS ON SLOPES THAT ARE 3:1 OR STEEPER SHOULD BE ROUGHENED PER THE EPA'S NPDES SOIL ROUGHENING FACT SHEET IF THEY ARE TO BE SEEDED WITHIN 2 WEEKS OF DISTURBANCE. IF NOT, EROSION CONTROL BLANKETS SHOULD BE INSTALLED ON THESE SLOPES.
- IV. LAYOUT AND MATERIAL NOTES
- 1. BENCHMARKS TO BE USED FOR CONSTRUCTION LAYOUT ARE: BENCHMARK #1: ____
- BENCHMARK #2: ____
- THE FOLLOWING LAYOUT CRITERIA SHALL CONTROL UNLESS OTHERWISE NOTED ON THE PLAN: a. TIES TO PROPERTY LINES ARE PERPENDICULAR TO THE PROPERTY LINE UNLESS OTHERWISE NOTED.
- c. DISTANCES AND DIMENSIONS ARE IN DECIMAL FEET. OR ARE IMPINGED UPON BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED, ABANDONED AND/OR CAPPED OR DEMOLISHED AS REQUIRED. AMBIGUITIES IN THE PLANS SHALL BE CLARIFIED BY THE CEOR OR SITE SUPERINTENDENT. LICENSED LAND SURVEYOR PRIOR TO ANY INSTALLATION OF RACKING OR TRENCHES. AT OR NEAR THE SAME LOCATION AS WHERE EXCAVATED. TOPSOIL REMOVED SHALL BE
- 2. SCREENED IMAGES SHOW EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER 3. THE CONTRACTOR SHALL HAVE ELECTRICAL TRENCHES AND RACKING STAKED OUT BY A 4. EXCESS TRENCH MATERIAL SHALL BE PLACED ON THE SIDES OF THE TRENCH AND PLACED
- PLACED ON TOP AND LIGHTLY COMPACTED.
- V. GRADING AND UTILITY NOTES
- 1. PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT, BOTH ON AND OFF THE SITE, THE CONTRACTOR SHALL NOTIFY "DIG SAFE SYSTEM, INC." AT 1-888-344-7233 AND BE PROVIDED WITH A "DIG SAFE SYSTEM, INC." AT 1-888-344-7233 TICKET NUMBER INDICATING THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED.
- 2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE CONTRACTOR. THE SUBCONTRACTOR(S) SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES.
- 3. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE SUBCONTRACTOR(S). AND THE INFORMATION FURNISHED TO THE CONTRACTOR/CEOR FOR RESOLUTION OF THE CONFLICT.
- 4. UTILITY-OWNED EQUIPMENT ON ELECTRICAL POLES TO BE INSTALLED WILL CONSIST OF METERING EQUIPMENT. THE UTILITY SHALL OVERSEE THE PERMITTING OF THE EQUIPMENT. SEE PLANS FOR DETAILS OF INSTALLATION AND LAYOUT OF POLES.

b. DIMENSIONS TO RACKING SHALL BE TO TOP OF SOLAR PANEL OR LEADING EDGE.

- 5. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE SUBCONTRACTOR(S) OPERATIONS SHALL BE RESTORED BY THE SUBCONTRACTOR(S) TO THEIR ORIGINAL CONDITION, AT THE SUBCONTRACTOR(S) EXPENSE
- 6. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE ELECTRIC UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE UTILITY CONNECTIONS WITH THE RESPECTIVE COMPANIES PRIOR TO ANY UTILITY CONSTRUCTION.
- 7. GRADES MEET EXISTING GRADES, SUBCONTRACTOR(S) SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
- 8. SUBCONTRACTOR(S) SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- 9. MAXIMUM LONGITUDINAL SLOPES SHALL NOT EXCEED 10:1 ALONG GRAVEL ROADS (UNLESS SHOWN OTHERWISE) AND WITHIN FENCED SOLAR ARRAY AREAS, AND 3:1 IN ALL OTHER DISTURBED AREAS, UNLESS OTHERWISE NOTED.
- 10. SUBCONTRACTOR(S) SHALL VERIFY EXISTING GRADES AND NOTIFY THE CONTRACTOR/CEOR OF ANY DISCREPANCIES.
- VI. PLANTING NOTES
- 1. REFER TO LANDSCAPING PLANS FOR SPECIFIC NOTES.

CONSTRUCTION SEQUENCE

- PHASE I
- HOLD A PRE-CONSTRUCTION MEETING WITH THE TOWN OF BELLINGHAM/FRANKLIN PRIOR TO ANY SITE DISTURBANCE.
- INSTALL CONSTRUCTION EXIT 1 ONTO MAPLE STREET
- INSTALL SEDIMENTATION CONTROL ALONG OUTSIDE OF PROPOSED FENCE.
- APPLICANT TO CONTACT TOWN OF BELLINGHAM/FRANKLIN A MINIMUM OF TWO (2) DAYS PRIOR TO FINAL SEDIMENTATION CONTROL COMPLETION.
- LAYOUT LIMIT OF WORK (FENCE LINE) AND GRAVEL ACCESS ROAD.
- PHASE II
- CONSTRUCT BERM FOR MAPLE STREET FENCING.
- EXCAVATE ELECTRICAL TRENCHES.
- INSTALL SOLAR MODULE RACKING.
- CONSTRUCT CONCRETE WASHOUTS.
- EXCAVATE AND POUR ELECTRICAL EQUIPMENT PADS.
- INSTALL PERIMETER SECURITY FENCE.
- PHASE III
- COMMENCE PLANTINGS. MAPLE STREET FENCING SHALL NOT BE INSTALLED UNTIL ALL PLANTINGS ALONG MAPLE STREET ARE COMPLETED.
- HYDROSEED DISTURBED AREAS ONCE WORK IN THESE AREAS ARE COMPLETED. [COMPLETED] MEANS THAT VEHICULAR TRAFFIC IS NO LONGER NECESSARY].
- REMOVE EROSION/SEDIMENT CONTROL MEASURES ONCE PROPER STABILIZATION IS ACHIEVED.
- APPLICANT TO CONTACT TOWN OF BELLINGHAM/FRANKLIN PLANNING DEPARTMENT A MINIMUM OF TWO (2) DAYS PRIOR TO PROJECT COMPLETION.
- CONTRACTOR TO COMPLETE AN AS-BUILT (RECORD) SURVEY OF THE PROJECT AREA.

CIVIL SHOP DRAWINGS

- (INCLUDE BUT ARE NOT LIMITED TO:)
- MULCH TUBE (FILTREXX SOCK)
- SILT FENCE
- STONE FOR STABILIZED CONSTRUCTION EXIT
- GEOTEXTILE ROAD STABILIZATION FABRIC FOR ROAD
- STONE FOR ROADWAY
- CHAIN LINK FENCE
- CHAIN LINK GATES (VEHICULAR/MAN)
- FORESTRY ACCESS GATES
- DRAINAGE CULVERT
- DRAINAGE PIPE END
- OUTLET CONTROL STRUCTURE
- · ROCK RIP RAP
- TRENCH BEDDING MATERIAL
- TRENCH BACKFILL MATERIAL
- PLANTING MATERIALS (TREES/SHRUBS)

ABBREVIATIONS

BC BVW	BOTTOM OF CURB BORDERING VEGETATED
СВ	WETLANDS CATCH BASIN
CLF	CHAIN LINK FENCE
DIP	DUCTILE IRON PIPE DRAIN MANHOLE
DMH ECB	EROSION CONTROL BARRIER
FES	FLARED END SECTION
FH	FIRE HYDRANT
FOC	FACE OF CURB
GG	GAS GATE
HW	HEADWALL
ILSF	ISOLATED LANDS SUBJECT TO
	FLOODING
ISW	ISOLATED WETLANDS (FEDERAL
	JURISDICTION)
LA	LANDSCAPED AREA
LOW	LIMIT OF WORK
NTS	NOT TO SCALE
OCS	OUTLET CONTROL STRUCTURE
PCC RCP	PRECAST CONCRETE CURB REINFORCED CONCRETE PIPE
SLC	STREET LIGHT CIRCUIT
SMH	SEWER MANHOLE
TC	TOP OF CURB
TEL	TELEPHONE CABLE
VGC	VERTICAL GRANITE CURB
WG	WATER GATE
	REV 1.0

REV 1.0

LEGEND

WF 100-YEAR FLOOD LINE _____ 100-YEAR FLOOD LINE TREELINE STONE WALL LIMIT OF WORK - » ----- » ----- DRAIN PIPE ELECTRICAL TRENCH OVERHEAD ELECTRIC - v ----- v ----- WATER LINE GAS MAIN OMITTED MODULE SPARE MODULE

NON-ACTIVE MODULE

NOW OR FORMERLY

SNOW STORAGE AREA

IRON PIPE

STONE BOUND DRILL/HOLE

DH

FND

CMP

BIT CONC

RET WALL

SOLAR MODULES ROAD (GRAVEL) FENCE LINE PROPERTY LINE FLOW DIRECTION BANK LINE/FLAG WETLAND LINE/FLAG (E) MAJOR CONTOUR (E) MINOR CONTOUR PROPOSED MAJOR CONTOUR ------ 100' WETLAND BUFFER ZONE 200' RIVERFRONT AREA WATER RESOURCE OVERLAY DISTRICT WATER RESOURCE OVERLAY DISTRICT EDGE OF WATER ASSESSORS MAP-LOT 23-234 CB/DH CONCRETE BOUNDDRILL/HOLE

DRILLHOLE

CORRUGATED METAL PIPE

BITUMINOUS CONCRETE

RETAINING WALL

FOUND

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CIVIL NOTES & LEGEND

 \boxtimes S Ø

SB/DH N/F IP ------SS

SURVEY NOTES:

- 1: Field survey by EDM Total Station & RTK GPS.
- 2: The horizontal datum of this plan is the Massachusetts Coordinate System North American Datum 1983, the vertical datum is North American Vertical Datum 1988, both are based on RTK GPS observations taken on site.
- 3: According to Federal Emergency Management Agency maps, the locus properties are located in areas designated as "Zone X" (areas of minimal flooding). Community Panel No. 25021C 0302 E Effective Date: 7/17/2012.
- 5: The proposed facilities are located within the Town of Franklin Industrial zoning district & the Town of Bellingham Industrial zoning district.
- 6: The location of utility structures shown hereon are from observed field evidence only, this plan does may not depict the exact location of underground utilities & does not show all of the utilities which exist within the premises surveyed. please contact dig-safe at 1-888-344-7233 before excavation.
- 7: At the time of the ALTA survey there was no observed evidence active earth moving work. At the time of the ALTA survey there was no observed evidence of building construction or building additions.
- 8: As allowed under Section 3.Ev and 6.B of the 2016 ALTA/NSPS Minimum Standard Detail Requirements, this survey exceeds the maximum allowable Relative Positional Precision due to the size and configuration of the surveyed property, and the relief, vegetation and improvements on the surveyed property.
- 9: Wetlands shown hereon were delineated by SWCA and field located by this survey. 10: Gross land area of locus parcels = 10.130 acres \pm .

RECORD DESCRIPTION:

From title report prepared by Joel A. Stein file # T98105 dated 7/25/2018: OWNER: LMP Properties, LLC, by virtue of a Deed from 186 Maple Street, LLC, dated January 30, 2014, recorded with said Deeds, Book 32050, Page 98.

DESCRIPTION: See the metes and bounds description of the first parcel in the above referenced vesting Deed. Said parcel is shown on Plan entitled, "Plan of Land in Bellingham and Franklin, Mass. (Norfolk County)", dated September 8, 1988, by Jim Troupes, P.L.S., recorded with said Deeds, Plan Book 380, Page 419. Said parcel comprises Bellingham Assessor's Parcel 32–7 and Franklin Assessor's Parcels 239–11 and 239–13.

UTILITY POLE (TYP.)-

WEILAND

CERTIFICATION:

vstems. Inc.

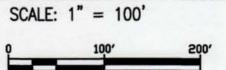
This is to certify that this map of plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 2, 3, 4, 5, 6a, 8, 11, 13, 16, & 20 of Table A thereof. The fieldwork was completed on 10/1/2018.

11-1-2018 Date of map or plat

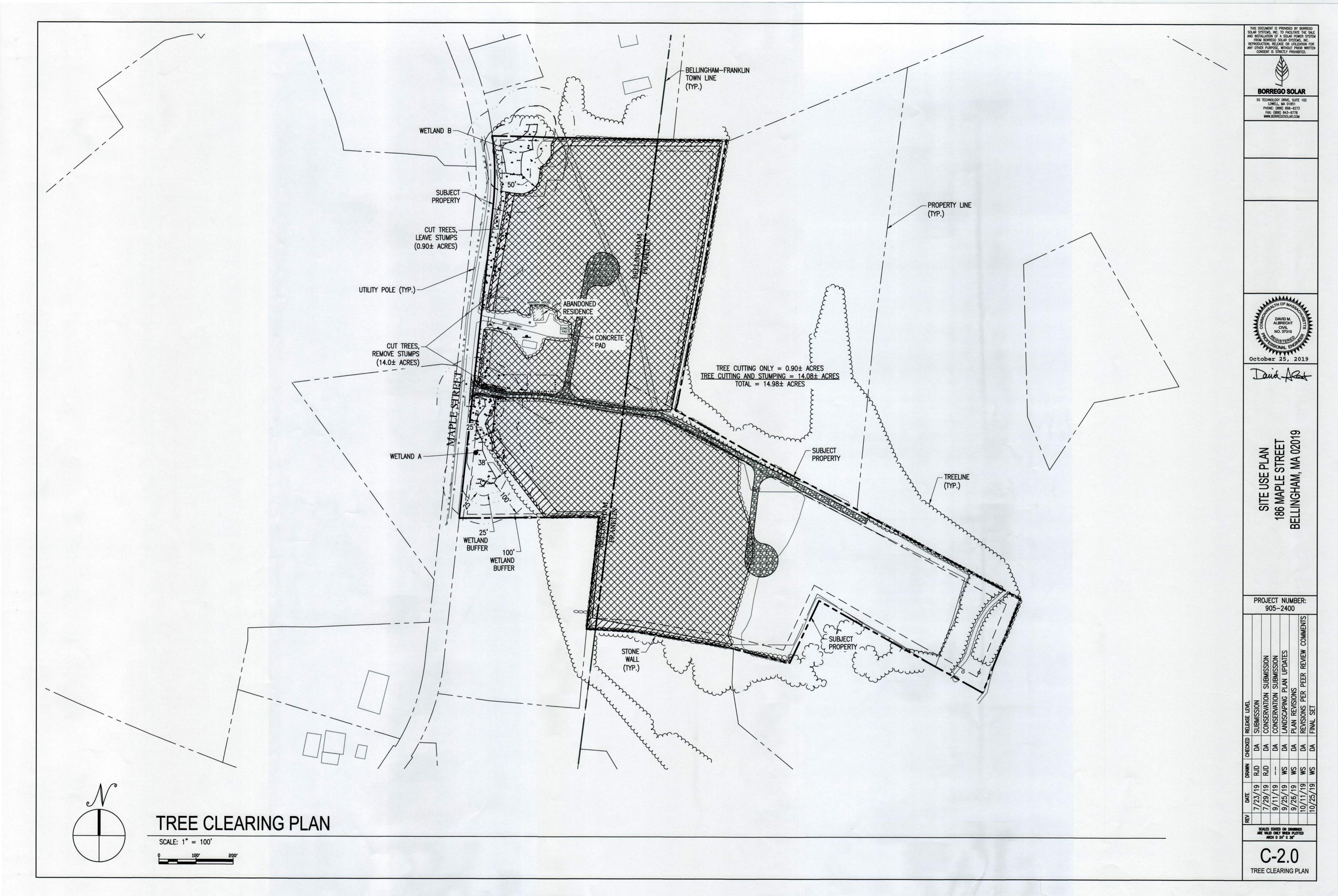
Daniel F. Stasz PLS #47160 dan@northeastsurvey.com

0

EXISTING CONDITIONS PLAN







Large ground-mount sy	Required	Provided	Notes/Bylaw Section	
Minimum Lot Area	square feet	40,000	577,600	
Frontage	feet	175'	N/A	No Frontage
Lot Depth	feet	200'	1,100'	
Front Yard	feet	40'	N/A	
Side Yard	feet	30'	34'	
Rear Yard	feet	30'	49'	
Max. Height of Bldg/Stories	feet	40'/3	9.5' Racking	15' Energy Storage Units
Max. Impervious Coverage of Existing Upland	%	70%/80%	28.0%	2.9 acres of the 10.5 acres
opiana				
	32-007 Zoned I- In	dustrial		
Bellingham Assesors Parcel		dustrial Required	Provided	Notes/Bylaw Section
Bellingham Assesors Parcel			Provided 429,937	Notes/Bylaw Section
Bellingham Assesors Parcel Large ground-mount sy	stems	Required		Notes/Bylaw Section
Bellingham Assesors Parcel Large ground-mount sy Minimum Lot Area	stems square feet	Required 60,000	429,937	Notes/Bylaw Section
Bellingham Assesors Parcel Large ground-mount sy Minimum Lot Area Frontage	stems square feet feet	Required 60,000 200'	429,937 1,026	Notes/Bylaw Section See note 2.
Bellingham Assesors Parcel Large ground-mount sy Minimum Lot Area Frontage Front Yard	stems square feet feet feet	Required 60,000 200' 20' / 100'	429,937 1,026 55'	

2. For industrial or commercial uses, increase to 30 feet where adjoining an Agricultural, Suburban, Residential, or Multifamily District or residential use.

UTILITY POLE (TYP.)

15' WIDE GRAVEL -1 C-6.0 ACCESS DRIVEWAY

POINT OF INTERCONNECTION -4' HIGH STACKED STONE WALL UTILITY POLE -(TYP.)

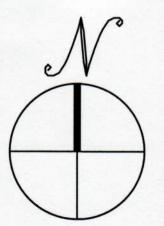
UTILITY EQUIPMENT AREA -

END SOLID FENCE -

- - ----

WETLAND A -

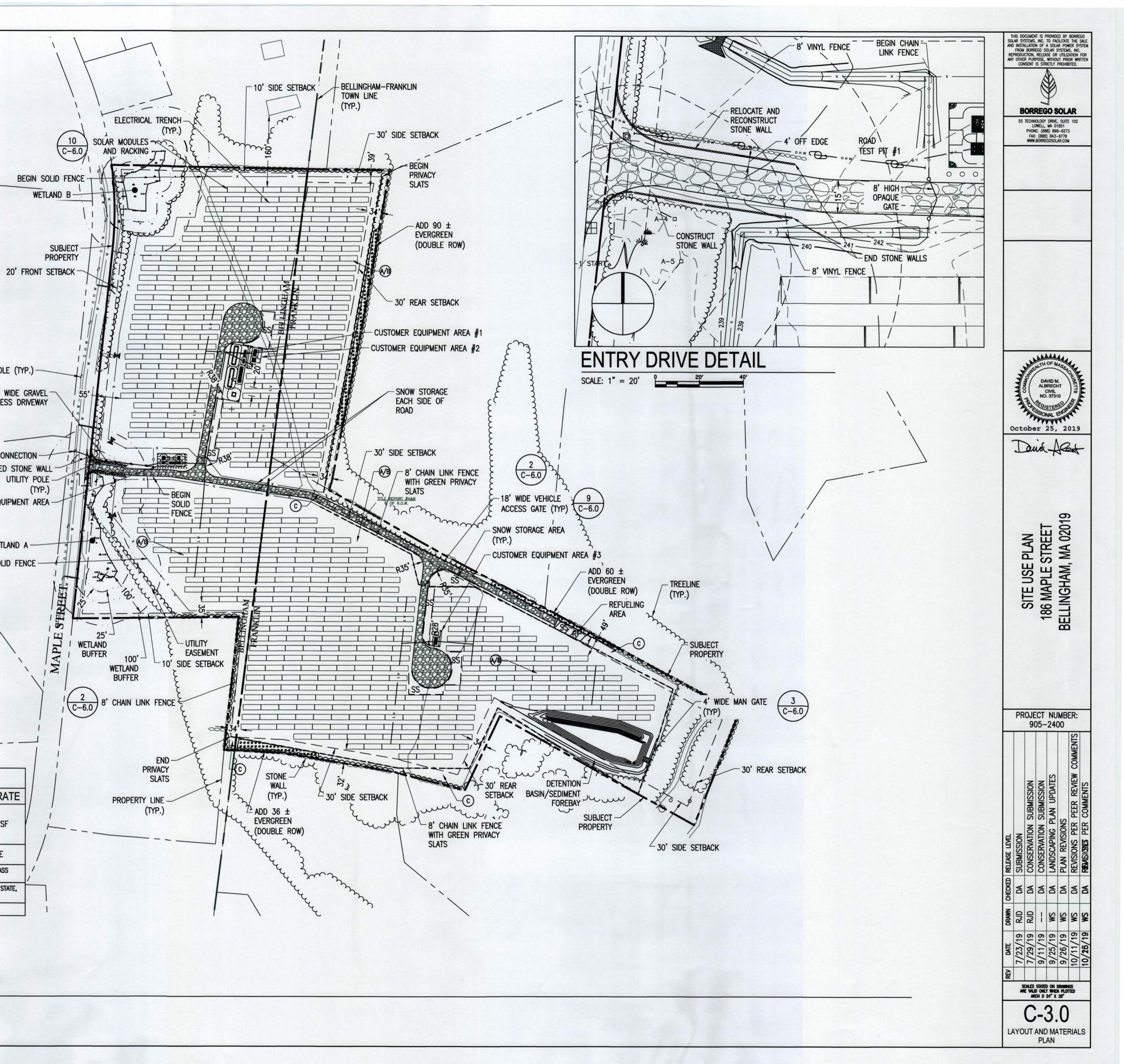
	SEE	DING SPECIFICATIC	NS	
	LOCATION	NAME/SPECIES	SUPPLIER	SEEDING RATE
A /D	BETWEEN AND UNDER SOLAR	REBEL TALL FESCUE, CHEWINGS FESCUE OR HARD FESCUE	SEEDLAND.COM	E#/1 000 SE
A/B	PANELS	ERNMX-129: CONSERVATION SHADE MIX	ERNST 5#/1,000	
С	OUTSIDE OF FENCE	OUTSIDE OF FENCE ERNMX-179: BUTTERFLY & HUMMINGBIRD GARDEN MIX		30#/ACRE
. Between dec Eed.	EMBER 1ST AND APRIL 1ST, EACH TYPE O	F SEED SHALL HAVE AN ADDITIONAL 1#/1,0	00 SF OF WINTER RYEGRAS	S OR GRAIN RYE GRASS
ND FEDERAL RE	THE SUB-CONTRACTORS RESPONSIBILITY TO GULATIONS/REQUIREMENTS/PERMIT APPROV	D ENSURE THAT THE PROJECT LIMIT OF WOR (ALS) DURING THE LENGTH OF THE PROJECT	RK IS STABILIZED (IN ACCOR	DANCE WITH LOCAL, STATE,
3. ALL DISTURBE	D AREAS SHALL BE RESTORED WITH 4" MI	NIMUM TOPSOIL & SEED PER SEEDING SPEC	CIFICATIONS LISTED IN THS T	ABLE.

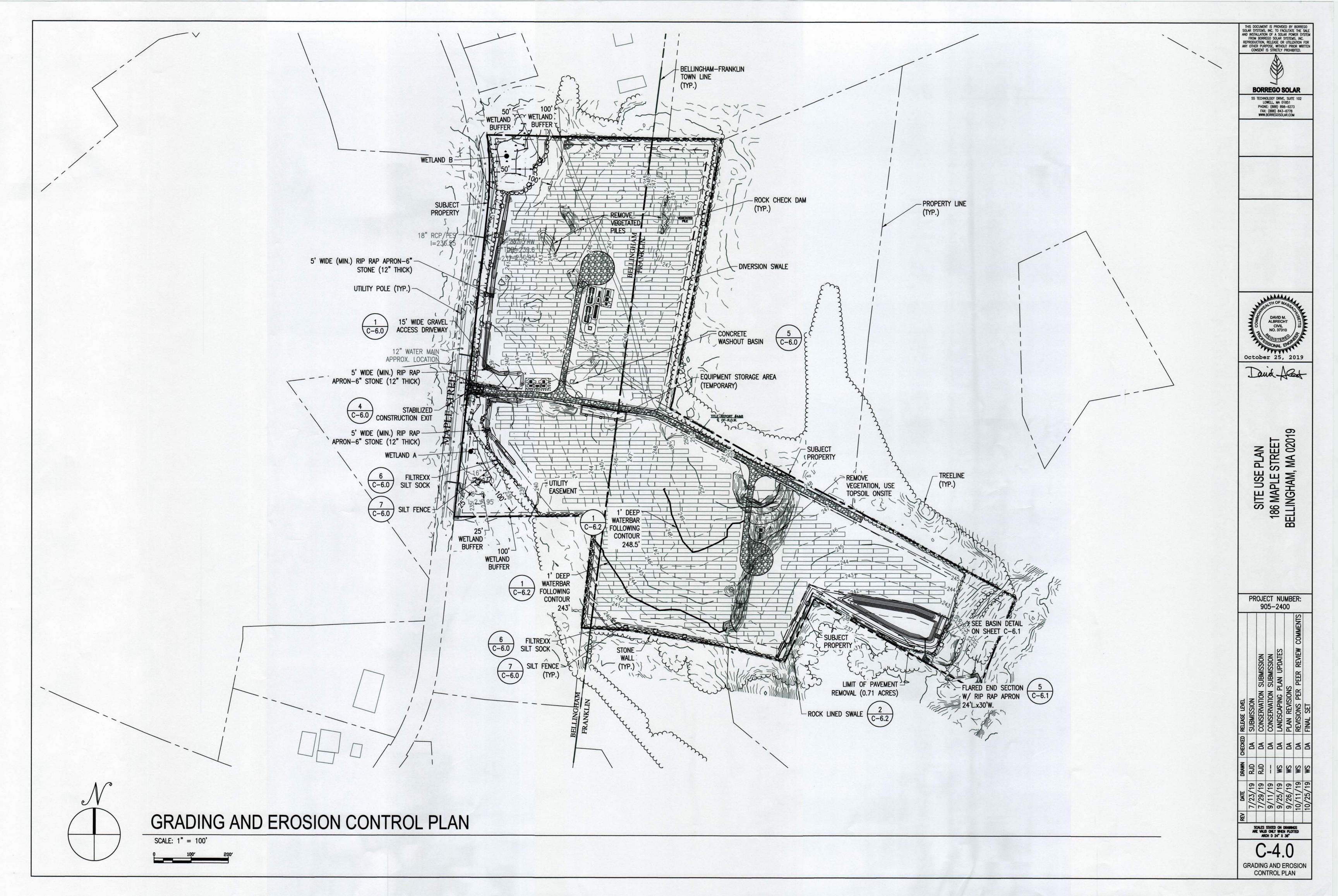


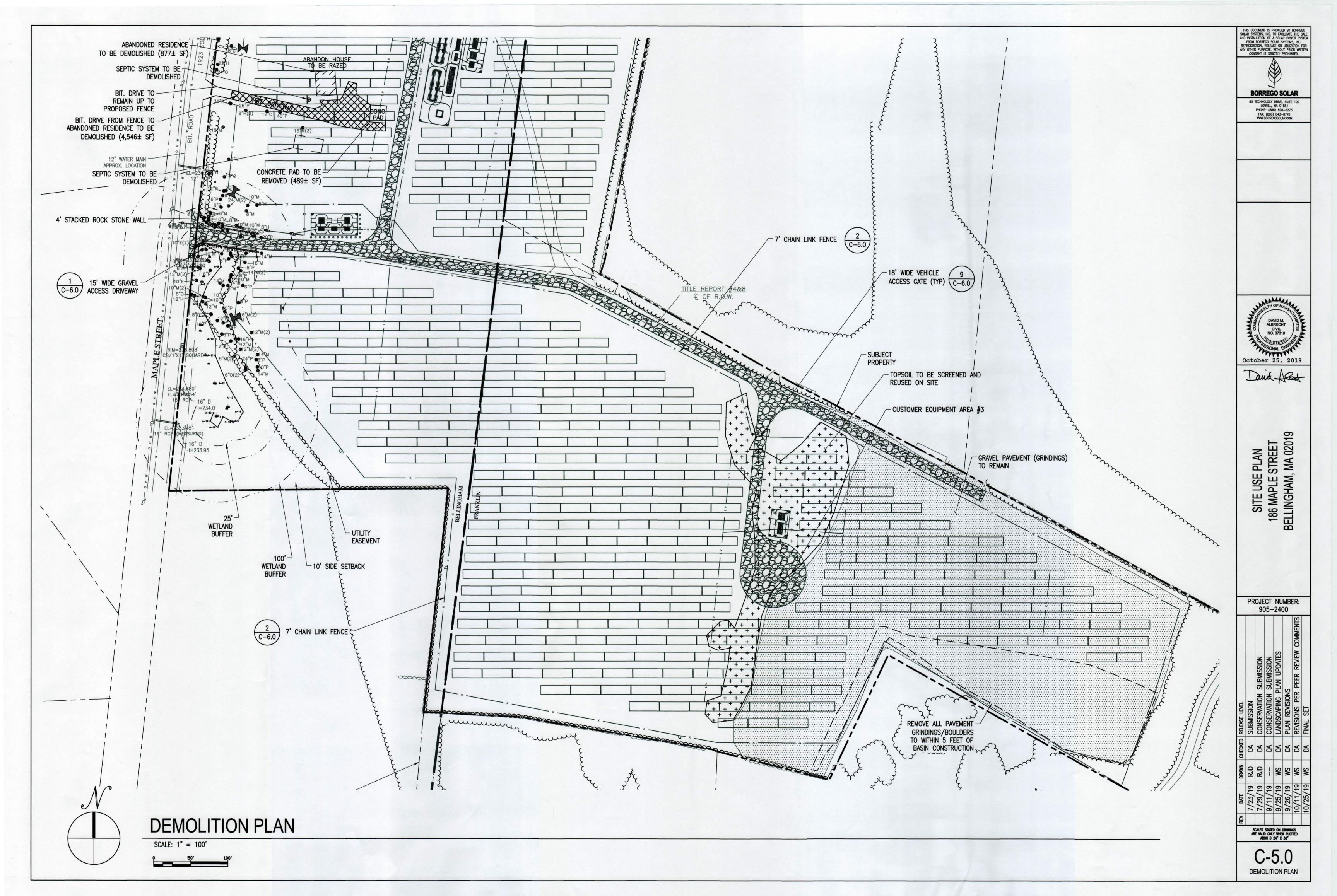
LAYOUT AND MATERIALS PLAN

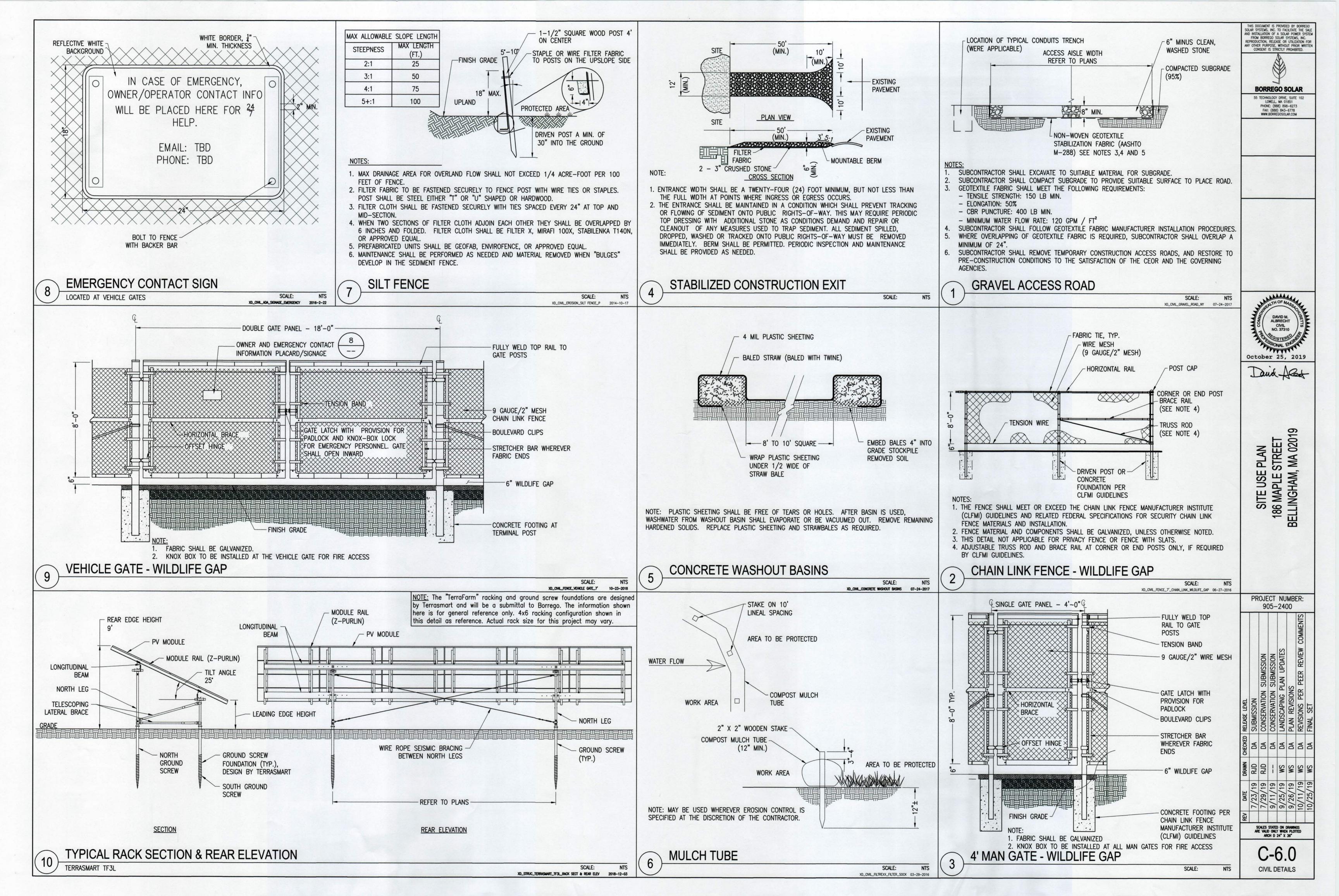
SCALE: 1" = 100'

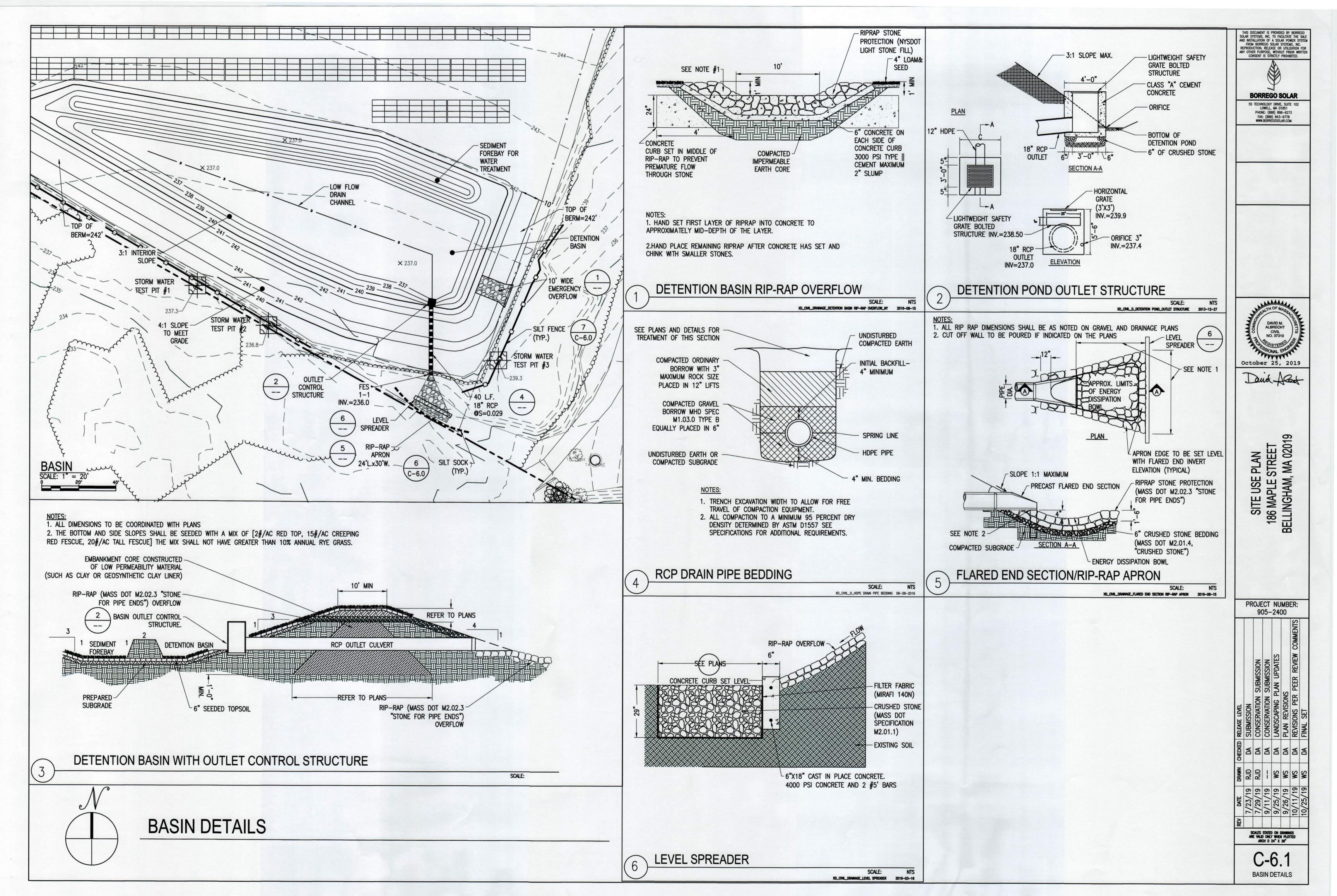
0 100'

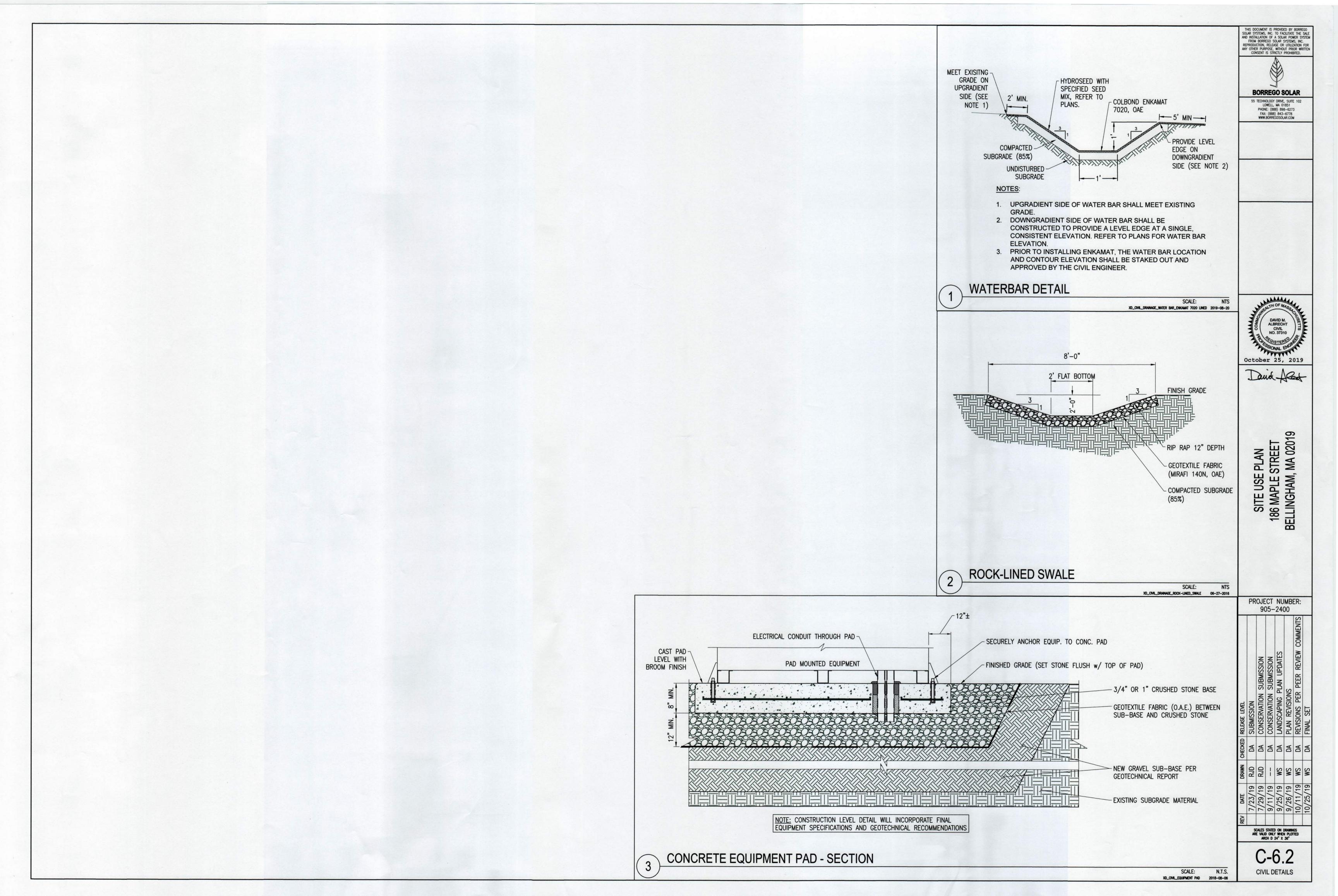


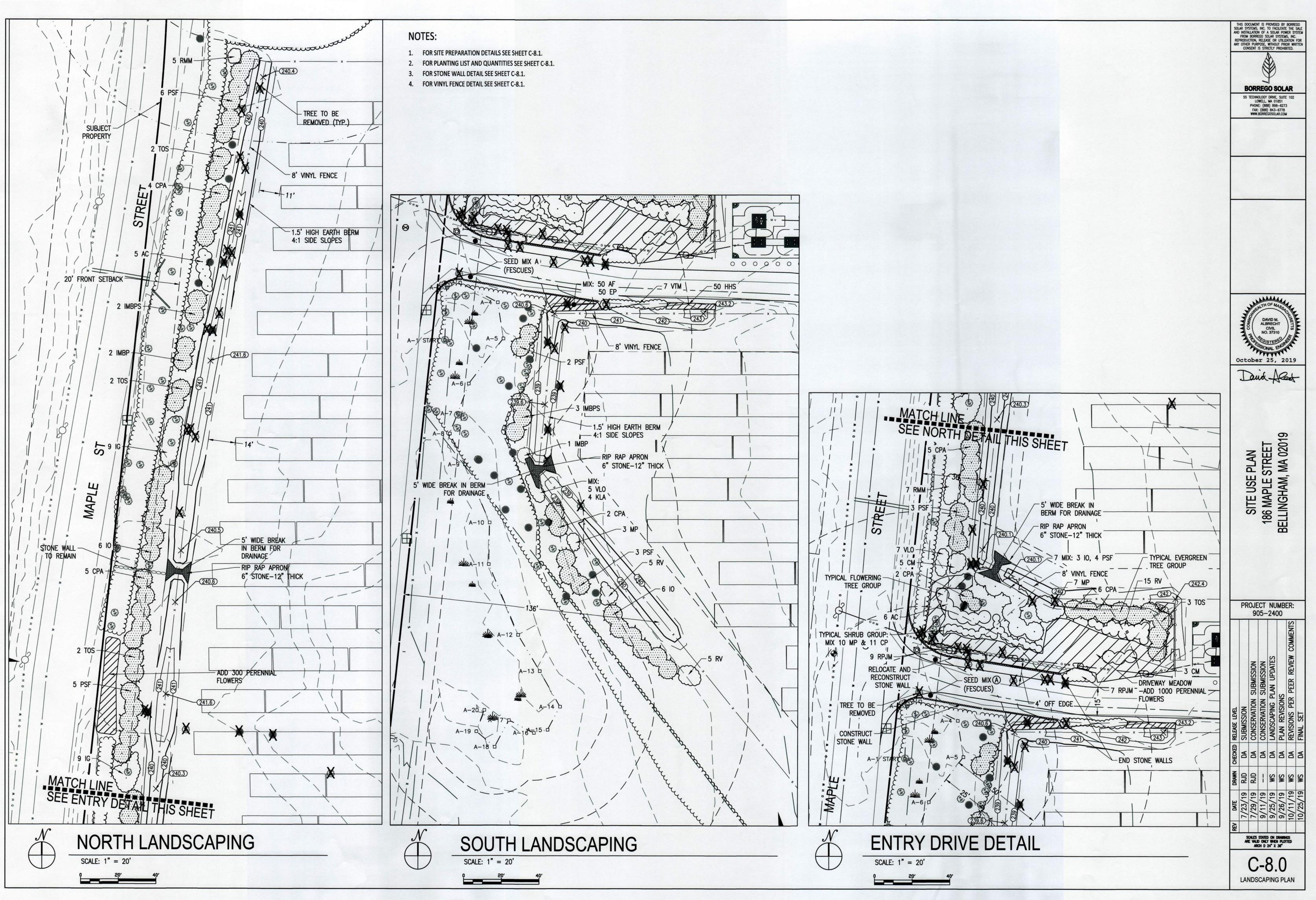












Site Preparation:

1. Refer to Tree Clearing Plan (Sheet No. C-2.0) for site preparation instructions related to tree clearing.

2. Cut trees shall be chipped to provide on-site shredded bark/wood chip mulch to be applied to planted areas. Shredded bark/wood chips shall be stockpiled until planting activities completed, then uniformly applied over planting areas to a 3"-4" depth. Shredded bark mulch sourced from on site shall be supplemented by outside sources of same if necessary to get full surface coverage.

Planting Contractor shall prepare planting and seeding areas to reduce future weed growth of unintended species to the maximum extent possible. Contractor 3. shall have an unexpired current and valid Massachusetts Herbicide Applicators license. Contractor may only used legally permitted herbicide products, including acetic acid the active ingredient in vinegar.

- 4. If permitted by municipal by-laws, Contractor may conduct controlled burning to reduce the presence or future growth of weed species. In all cases, Contractor shall contact Construction Manager for permission to conduct controlled burning prior to commencing any burning activities. Contractor shall comply with all local regulations, such as receiving required burn permit from local Fire Department. Contractor may only used legally permitted herbicide products, including acetic acid the active ingredient in vinegar.
- 5. Thoroughly de-compact existing soils in planting and/or seeding areas prior to installing plants and/or applying seed. De-compact soils with a York rake or similar equipment to a minimum 6" depth prior to planting or seeding.
- 6. Assume that no water source will be available on-site during planting and seeding activities. Plan accordingly to provide ample water for delivered, stockpiled, and newly installed plants.

Planting:

- 7. Plants specified by name, size and quantity on the Drawings shall be used. Plant substitution requests, if any, must be submitted to the Landscape Architect in writing, and approved by the Landscape Architect not less than five (5) business days prior to delivery on site.
- 8. All plants shall be delivered to the site in a healthy, vigorous condition in thoroughly moist soil within containers. Nursery stock shall not be root bound within containers. Plants shall not be delivered to the site in a diseased, damaged or otherwise compromised, stressed or weakened condition.
- 9. All delivered plants and particularly root zones shall be maintained in a thoroughly moistened condition prior to, during, and after planting.
- 10. Trees, shrubs and perennial plants (flowers, grasses, ferns) shall be planted according to Planting Details shown on the Drawings.
- 11. Planting holes (pits) shall be dug according to Planting Details shown on the Drawings. Planting holes shall be thoroughly saturated at time of plant placement in holes.
- 12. Plants shall be inserted into holes such that root flare is located 1"-2" above the average surface of surrounding grade. Planting backfill shall be added around inserted plants. Backfill shall be a mix of native soil dug from the planting hole mixed and enriched with raised planter compost mix, worm castings, organic 5-3-4 (N-P-K) slow-release fertilizer, biochar and mycorrhizal fungi inoculant. Native soil shall be amended at the following rates by volume:
 - Native Soil to Raised Planter Compost: 3:1
 - Native Soil to Worm Castings: 10:1 - Native Soil to Organic 5-3-4 Slow-Release Fertilizer: 15:1
 - Native Soil to Biochar: 20:1
- Native Soil to Mycorrhizal Fungi Inoculant 50:1
- 13. Backfill planting holes immediately following plant placement. Thoroughly tamp backfill around installed plants to maximize soil contact and minimize air spaces.
- 14. Provide bermed water catching basin around EACH INDIVIDUAL PLANT as shown in Planting Details on Drawings.
- 15. Following completion of planting apply shredded bark/wood chip mulch to a uniform 3"-4" depth across entire planted area. Feather back mulch 3"-6" from stems/trunks of planted shrubs and trees such that mulch is not in contact with stems/trunks.

Seeding:

N.T.S.

- 16. Apply specified seed mixes at specified application rates as shown on Drawings.
- 17. Apply seed with a tackifier or other stabilizing agent such as clean straw or biodegradable matting that effectively prevents seed from mobilizing once applied.
- 18. Lightly compact seeded area surface immediately following seed application to insure maximum seed-to-soil bond.



BORREGO SOLAR SYSTEMS, INC PROJECT SITE: 186 Maple Street, BELLINGHAM, MA **RECOMMENDED PLANT LIST** 10-Sep-19

Prepared By: Thomas S. Benjamin, RLA, LEED-AP BD+C Sustainable Designer/Landscape Architect Email: tom@wellnesscapes.com Tel: (413) 687-1135

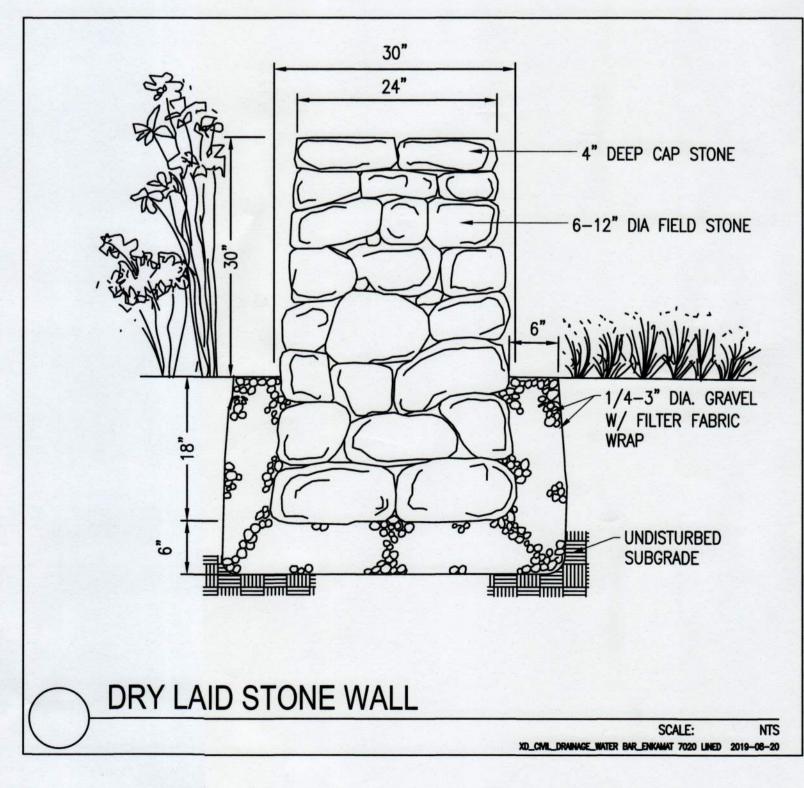
RECOMMENDED PLANT LIST Common Name

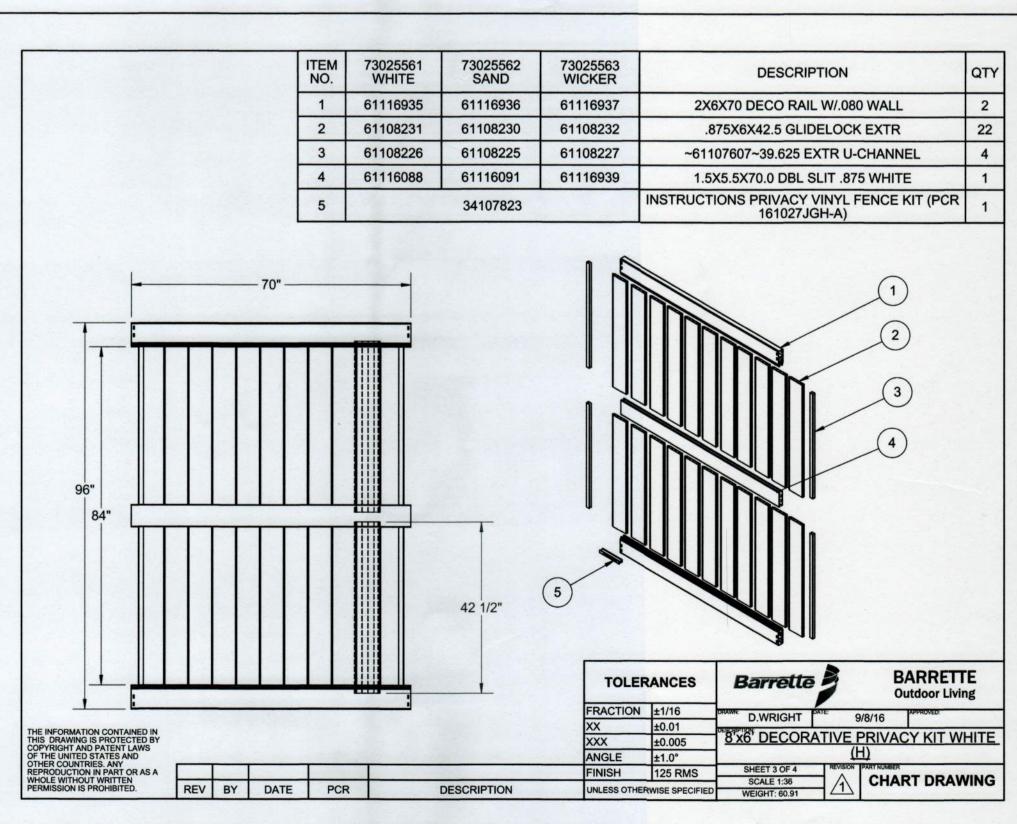
Туре	Symbol	Botanical Name	Common Name	Size/Form	Spacing
Flower	ing Groun	dcovers/Perennials:			
	AFA	Achillea filipendulina	Fern-leaf Yarrow	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	AMM	Achillea millefolium	Common Yarrow	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
100	AF	Agastache foeniculum	Anise Hyssop	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
50	AI	Asclepias incarnata	Swamp Milkweed	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
50	APS	Asclepias purpurascens	Purple Milkweed	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
50	ASA	Asclepias syriaca	Common Milkweed	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
50	AT	Asclepias tuberosa	Butterfly Weed	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
25	BA	Baptisia australis	Wild Indigo	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
50	CLB	Caryopteris 'Longwood Blue'	Blue Mist Shrub	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	CLA	Coreopsis lanceolata	Lance-leaf Coreopsis	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
100		Echinacea purpurea	Purple Coneflower	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	EM	Eutrochium maculatum	Joe Pyeweed	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
1	HHS	Heliopsis helianthoides	Smooth Oxeye	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
50		Leucanthemum 'Becky'	Becky Shasta Daisy	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
50		Lupinus perennis	Wild Blue Lupine	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	MDJC	Monarda didyma 'Jacob Cline'	Jacob Cline Bee Balm	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	MFA	Monard fistilosa	Wild Bergamot	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	PAU	Packera aurea	Golden Ground-sel	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	PDS	Penstemon digitalis	Beardtongue	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	PRR	Penstemon 'Red Riding Hood'	Red Riding Hood Beardtongue	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	PAA	Perovskia atriplicifolia	Russian Sage	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	PPRP	Phlox paniculata 'Robert Poore'	Robert Poore Phlox	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	PVPM	Physostegia virginiana 'Pink Manners'	Obedient Plant	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	PMM	Pycanthemum muticum	Short-toothed Mt. Mint	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	RH	Rudbeckia hirta	Black-eyed Susan	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	SNAE	Symphyotrichium novae-angliae	New England Aster	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	SNBI	Symphyotrichium novae-belgii	New York Aster	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	VNS	Vernonia novaboriensis	New York Ironweed	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
1,500					
Grasses					
	CLM	Chasmanthium latifolium	Northern Sea Oats	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	PVHM	Panicum virgatum 'Heavy Metal'	Heavy Metal Switchgrass	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
	SSM	Schizachyrium scoparium	Little Bluestem	5" Plug or #1 Pot	18-30" o.c., As Directed By L.A.
500					
Shrubs					
	CP	Comptonia peregrina	Sweetfern	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
18		llex glabra	Inkberry	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	IRS	Ilex 'Red Sprite'	Red Sprite Holly	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	KLA	Kalmia latifolia	Mt. Laurel	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	MP	Morella pennsylvanica	Bayberry	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	RMM	Rhododendron maximum	Rosebay Rhododendron	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	RPJM	Rhododendron 'PJM'	PJM Rhododendron	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	RA	Rhus aromatica 'Gro-Low'	Low Grow Fragrant Sumac	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	RC	Rosa caroliniana	Pasture Rose	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	RV	Rosa virginiana	Virginia Rose	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	VLO	Viburnum lentago	Nannyberry	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	VTM	Viburnum trilobum	Highbush Cranberry	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
250				6	
		& Flowering Trees:			
	AC	Amelanchier canadensis	Shadbush (Shrub Form)	#7 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	TOS	Thuja occidental 'Smargd'	Emerald Green Arborvitae	#7 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	CPA	Chamaecyparis pisifera	Soft Serve False Cypress	#7 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	СМ	Cornus mas	Cornelian Cherry Dogwood	#7 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
15		llex opaca	American Holly	#7 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	IMBP	Ilex meserveae 'Blue Prince'	Blue Prince Holly	#7 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	IMBPS	Ilex meserveae 'Blue Princess'	Blue Princess Holly	#7 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
	PSF	Pinus strobus 'Fastigiata'	Fastigiate White Pine	#7 Pot, 3-4' Ht./Spread	As Directed in the Field by L.A.
100					

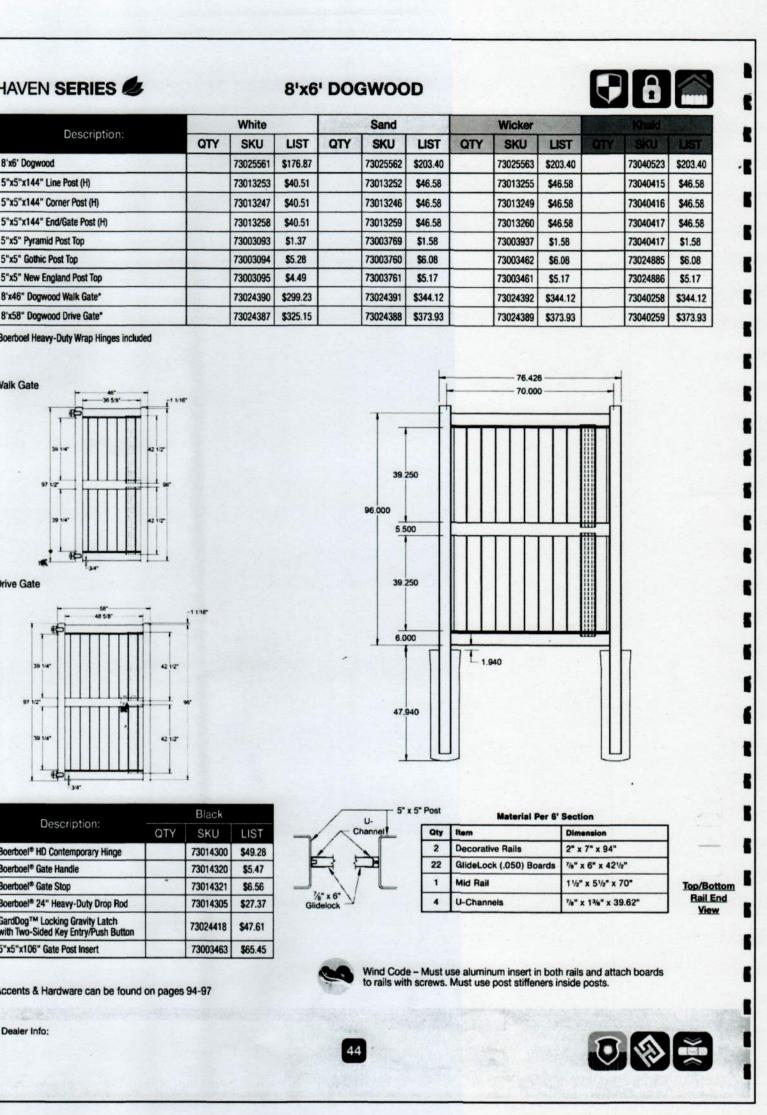
Note: In case of discrepancy between plant quantities shown on Drawing versus quantity shown in the Plant Schedule, the quantity shown on the Drawing shall be used.

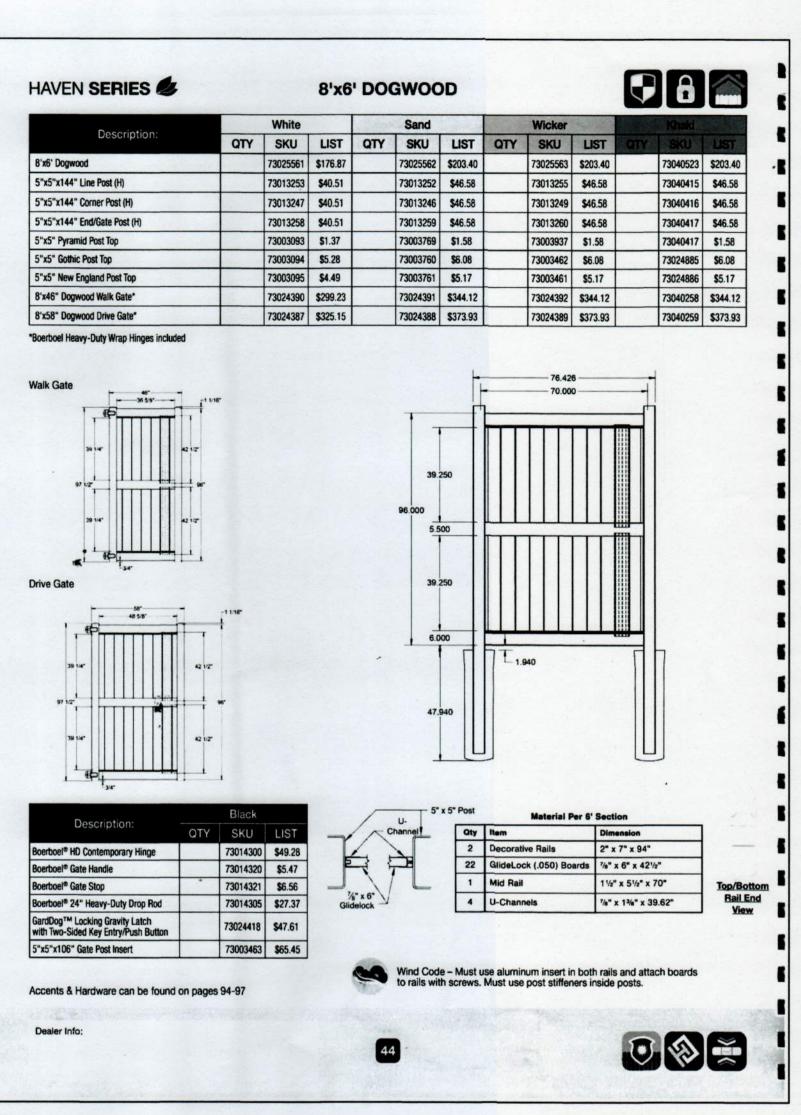
SEED MIXES:

Rebel, Chewings and/or Hard Fescue, supplied by Seedland.com, at an application rate of 5 lbs./1,000 sf. Add Dutch white clover at a rate of 1 lb./5,000 sf. Apply to landscape strips on both sides of driveway in front of proposed stone walls.









NO.	73025561 WHITE	73025562 SAND	73025563 WICKER	DESCRIPTION	QTY
1	61116935	61116936	61116937	2X6X70 DECO RAIL W/.080 WALL	2
2	61108231	61108230	61108232	.875X6X42.5 GLIDELOCK EXTR	22
3	61108226	61108225	61108227	~61107607~39.625 EXTR U-CHANNEL	4
4	61116088	61116091	61116939	1.5X5.5X70.0 DBL SLIT .875 WHITE	1
5		34107823		INSTRUCTIONS PRIVACY VINYL FENCE KIT (PCR 161027JGH-A)	1

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		- Commune	A PROVIDE AND	ALTH DATA ALBONO	VID MRECH 3731 STER	ASS - C O D	ATTUSETTS 400	
	October 25, 2019							
			SIIE USE PLAN	186 MADI E CTDEET		BFI INGHAM, MA 020		
and a second		PR		СТ 05-			ER:	
	Release level	SUBMISSION	CONSERVATION SUBMISSION	CONSERVATION SUBMISSION	UANDGEBPIKONINGANGUUANAARRSTABLE	PLAN REVISIONS	REVISIONS PER PEER REVIEW COMMENTS	FINAL SET
	CHECKED I	DA	DA	DA	DA	DA	DA	DA
	REV DATE DRAWN	" 7/23/19 RJD	7/29/19 RJD	9/11/19	8/24/19 WB	9/26/19 WS	10/11/19	10/25/19 WS
the shear of the second second second		AR		CAF	24" X 24" X	36"	TED	

mm mm	TRACTOR DOCTOR	SOLAR SYSTEMS, INC			
		186 Maple Street, BELLINGHAM, MA		- to	
RECO	MMEND	ED BUFFER ZONE PLANT LIST			
-		19-Sep-19			
Prepar	ed By: Tho	mas S. Benjamin, RLA, LEED-AP BD+C	Section of the section of the		
		ner/Landscape Architect			
		nesscape s.com			
Tel: (41	13) 687-113	15			
		1			
-			RECOMMENDED PLANT LIS		La contra c
	Symbol	Botanical Name	Common Name	Size/Form	Spacing
		ndcovers/Perennials:			
25		Asclepias incarnata	Swamp Milkweed	5" Plug or #1 Pot	18-30" o.c., As Directed By LA
	ACS	Aster cordifolius	Blue Wood Aster	5" Plug or #1 Pot	18-30" o.c., As Directed By L
25	CCS	Chelone glabra	Turtlehead	5" Plug or #1 Pot	18-30" o.c., As Directed By L
25		Comus canadensis Echinacea purpurea	Bunchberry Purple Coneflower	5" Plug or #1 Pot 5" Plug or #1 Pot	18-30" o.c., As Directed By L
	EPM	Eupatorium perfoliatum	Boneset	5" Plug or #1 Pot	18-30" o.c., As Directed By L. 18-30" o.c., As Directed By L.
	EM	Eutrochium maculatum	Joe Pyeweed	5" Plug or #1 Pot	18-30" o.c., As Directed By L
_	GM	Geranium maculatum	Wild Geranium	5" Plug or #1 Pot	18-30" o.c., As Directed By L
25	IVR	Iris versicolor	Blue-Flag Iris	5" Plug or #1 Pot	18-30" o.c., As Directed By L
25	LC	Lobelia cardinalis	Cardinal Flower	5" Plug or #1 Pot	18-30" o.c., As Directed By L
25	MFA	Monarda fistilosa	Wild Bergamot	5" Plug or #1 Pot	18-30" o.c., As Directed By Li
_	PAU	Packera aurea	Golden Ground-sel	5" Plug or #1 Pot	18-30" o.c., As Directed By La
-	PMM	Pycanthemum muticum	Short-toothed Mt. Mint	5" Plug or #1 Pot	18-30" o.c., As Directed By L
25	RH	Rudbeckia hirta	Black-eyed Susan	5" Plug or #1 Pot	18-30" o.c., As Directed By L
25	SPM	Symphotrichum puniceum	Swamp Aster	5" Plug or #1 Pot	18-30" o.c., As Directed By L.
25	SNAE	Symphyatrichium novae-angliae	New England Aster	5" Plug or #1 Pot	18-30" o.c., As Directed By La
25	SNBI	Symphyotrichium novae-belgli	New York Aster	5" Plug or #1 Pot	18-30" o.c., As Directed By Li
25	VH	Verbena hastata	Vervain	5" Plug or #1 Pot	18-30" o.c., As Directed By L
	VNS	Vernonia novaboriensis	New York Ironweed	5" Plug or #1 Pot	18-30" o.c., As Directed By Li
25		Zizia aurea	Golden Alexander	5" Plug or #1 Pot	18-30" o.c., As Directed By L/
500		NUM AND AND CH	Junici Metalluer	5 FinB ot #1 501	10-30 O.C., AS DIrected By L/
Grasse		Change and the state of the			
	CLM	Chasmanthium latifolium	Northern Sea Oats	5" Plug or #1 Pot	18-30" o.c., As Directed By L
	CAM	Carex amphiloba	Creek Sedge	5" Plug or #1 Pot	18-30" o.c., As Directed By L
	CCA	Carex crinita	Fringed Sedge	5" Plug or #1 Pot	18-30" o.c., As Directed By L
50	JE	Juncus effusus	Soft Rush	5" Plug or #1 Pot	18-30" o.c., As Directed By L
50	SCS	Scirpus cyperinus	Woolgrass	5" Plug or #1 Pot	18-30" o.c., As Directed By L/
50	SSM	Schizachyrium scoparium	Little Bluestem	5" Plug or #1 Pot	18-30" o.c., As Directed By L/
300					
Ferns:			and the second states of the second states in	Constant of the second second second	A STREET STREET
50	AFF	Athyrium felix-femina	Lady Fern	5" Plug or #1 Pot	18-30" o.c., As Directed By L
	DPA	Dennstaedtia punctiloba	Hay-scented Fern	5" Plug or #1 Pot	18-30" o.c., As Directed By L
	DMS	Dryopteris marginalis	Marginal Wood Fern	5" Plug or #1 Pot	18-30" o.c., As Directed By L/
	MSS	Matteuccia struthiopteris	Ostrich Fern	5" Plug or #1 Pot	18-30" o.c., As Directed By L/
_	OCA	Osmunda cinnamomea	Cinnamon Fern	5" Plug or #1 Pot	
	OCL				18-30" o.c., As Directed By L/
_	PAS	Osmunda claytoniana	Interrupted Fern	5" Plug or #1 Pot	18-30" o.c., As Directed By L
		Polystichum acrostichoides	Christmas Fern	5" Plug or #1 Pot	18-30" o.c., As Directed By L/
-	TNS	Thelypteris noveboracensis	New York Fern	5" Plug or #1 Pot	18-30" o.c., As Directed By L/
400					the second s
Shrubs					
10	and the second se	Alnus incana	Speckled Alder	#3 Pot, 2-3' Ht./Spread	As Directed in the Field by LA
10		Aronia arbutifolia	Chokeberry	#3 Pot, 2-3' Ht./Spread	As Directed in the Field by LA
	CAA	Clethra alnifolia	Summersweet	#3 Pot, 2-3' Ht./Spread	As Directed in the Field by LA
6		llex glabra	Inkberry	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by LA
10		llex verticillata	Winterberry	#3 Pot, 2-3' Ht./Spread	As Directed in the Field by LA
10		llex 'Sparkleberry'	Sparkleberry	#3 Pot, 2-3' Ht./Spread	As Directed in the Field by LA
10		Itea virginica	Virginia Sweetspire	#3 Pot, 2-3' Ht./Spread	As Directed in the Field by LA
10		Lindera benzoin	Spicebush	#3 Pot, 2-3' Ht./Spread	As Directed in the Field by LA
10		Rosa palustris	Swamp Rose	#3 Pot, 2-3' Ht./Spread	As Directed in the Field by LA
10		Vaccinium corymbosum	Highbush Blueberry	#3 Pot, 2-3' Ht./Spread	As Directed in the Field by LA
4	VD	Viburnum dentatum	Arrowwood	#5 Pot, 3-4' Ht./Spread	As Directed in the Field by LA
100					
lve St	akes:				
100		Comus amomum	Silky Dogwood	2-3' Long 1/2-2" Dia. Stakes	As Directed in the Field by LA
200	The second	Comus racemosa	Gray Dogwood	2-3' Long 1/2-2" Dia. Stakes	As Directed in the Field by LA
100		Comus stolonifera	Red Osier Dogwood	2-3' Long 1/2-2" Dia. Stakes	As Directed in the Field by LA
200		Salix discolor	Pussywillow	2-3' Long 1/2-2" Dia. Stakes	As Directed in the Field by LA
		Sambucus canadensis			
200	-		Elderberry	2-3' Long 1/2-2" Dia. Stakes	As Directed in the Field by LA
200		Viburnum dentatum	Arrowwood	2-3' Long 1/2-2" Dia. Stakes	As Directed in the Field by LA
200					
200 1,000					
200 1,000 Trees:	177				
200 1,000 Trees: 25	BPA CCA	Betula populifolio	Gray Birch	#7 Pot, 3-4' Ht./Spread #7 Pot, 3-4' Ht./Spread	As Directed in the Field by LA

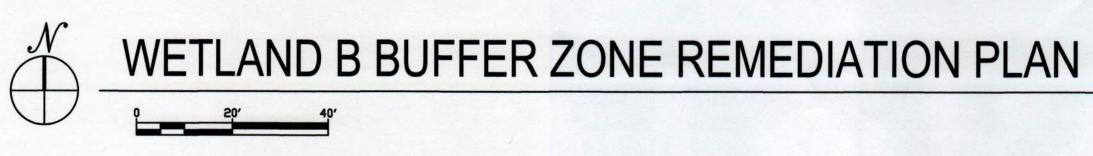
Note: In case of discrepancy between plant quantities shown on Drawing versus quantity shown in the Plant Schedule, the quantity shown on the Drawing shall be used.

PER WILDLIFE HABITAT ASSESSMENT REPORT PREPARED BY GZA DATE AUGUST 9, 2019, MANAGE INVASIVE PLANT SPECIES UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT AS FOLLOWS:

- 1. Target all invasive woody and herbaceous species for management
- 2. Ideally conduct invasives management work in late Summer for maximum effectiveness. Invasives management work may proceed at other times of year, as well, with approval from the Landscape Architect.
- identified in the field by the Landscape Architect. 4. Control Buckthorn and other woody invasive species identified on
- site by cutting stems to ground and painting or dabbing the rooted cut ends with Federal and/or State approved herbicide. Herbicide shall contain a colored dye to clearly show which stems have received herbicide application. Herbicide shall be applied by personnel possessing valid and current Massachusetts Herbicide Applicators License.
- 5. Control herbaceous invasives species (such as Purple Loosestrife) through hand pulling to the extent possible. If hand pulling not feasible or not entirely possible, cut marked stems to ground and paint or dab herbicide onto/into rooted end of cut stem. Alternatively, herbicide may be applied by injecting stems or by using the "glove" method of applying herbicide along the outside of the stem.
- 6. Alternatively, woody and herbaceous invasives present in large mono-cultural groupings may receive foliar spraying, taking great precaution to AVOID OVERSPRAYING ONTO DESIRABLE VEGETATION! 7. Remove cut stems and foliage from the site and dispose of in a

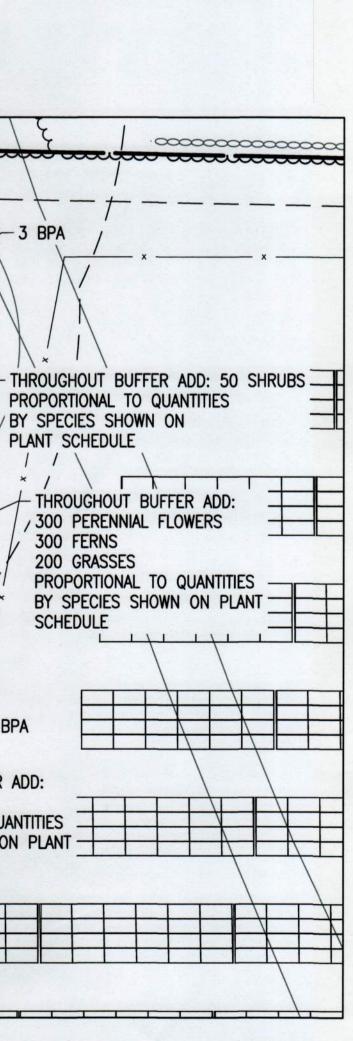
legal manner.

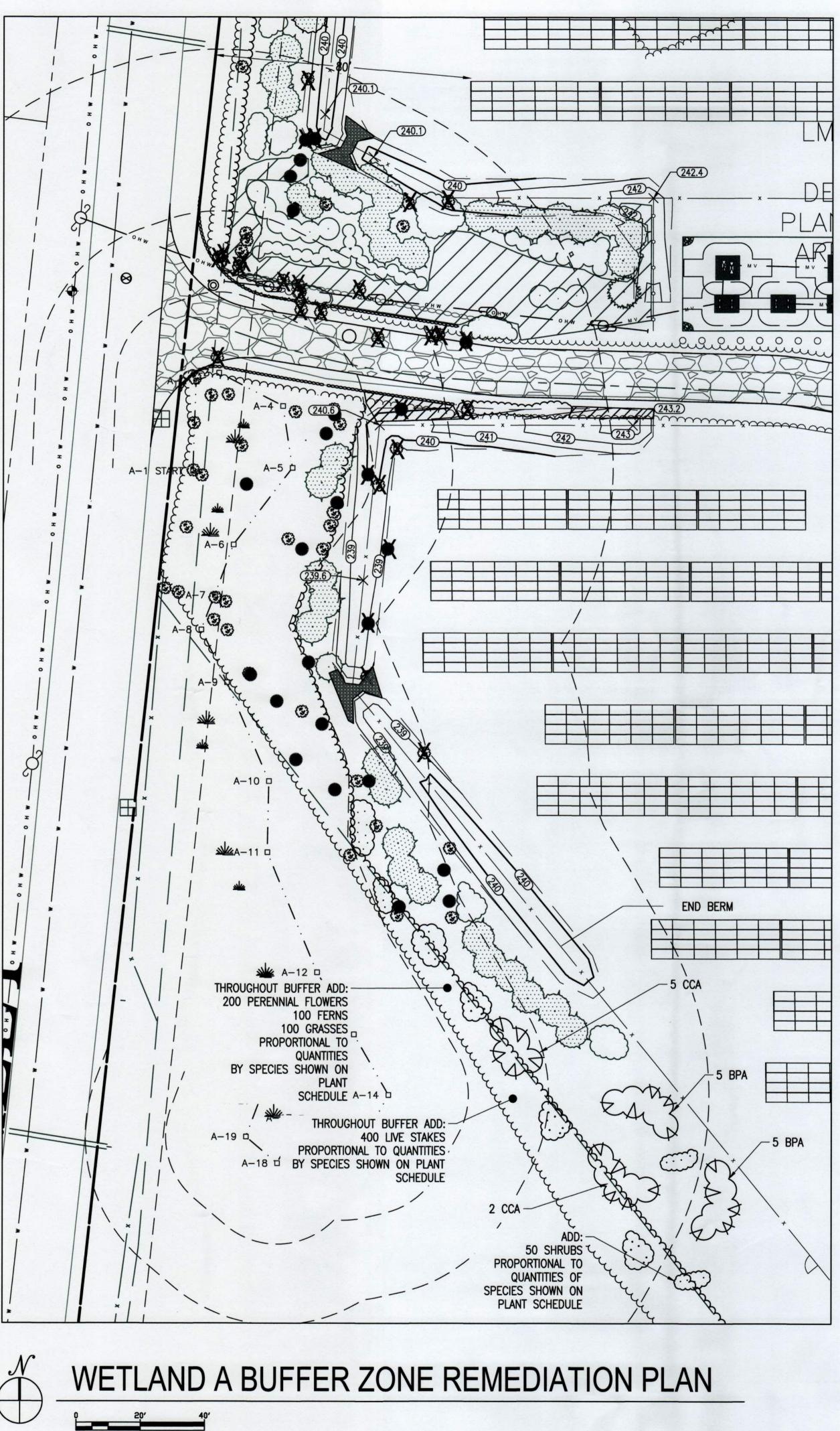
B-8,0 B-10 - B-9-0 -3 BPA 3 CCA >B-12' Ar. B-13 CCA BY SPECIES SHOWN ON (:) PLANT SCHEDULE B-17 0 . . B+13 P . . -6 BPA MA 3 2 CCA - $(\cdot : \cdot : \cdot$ 0 TAND 3-14 0 SCHEDULE B-16-12 5 CCA --2 BPA \square - THROUGHOUT BUFFER ADD: 600 LIVE STAKES PROPORTIONAL TO QUANTITIES BY SPECIES SHOWN ON PLANT SCHEDULE 2 CCA farman EAS



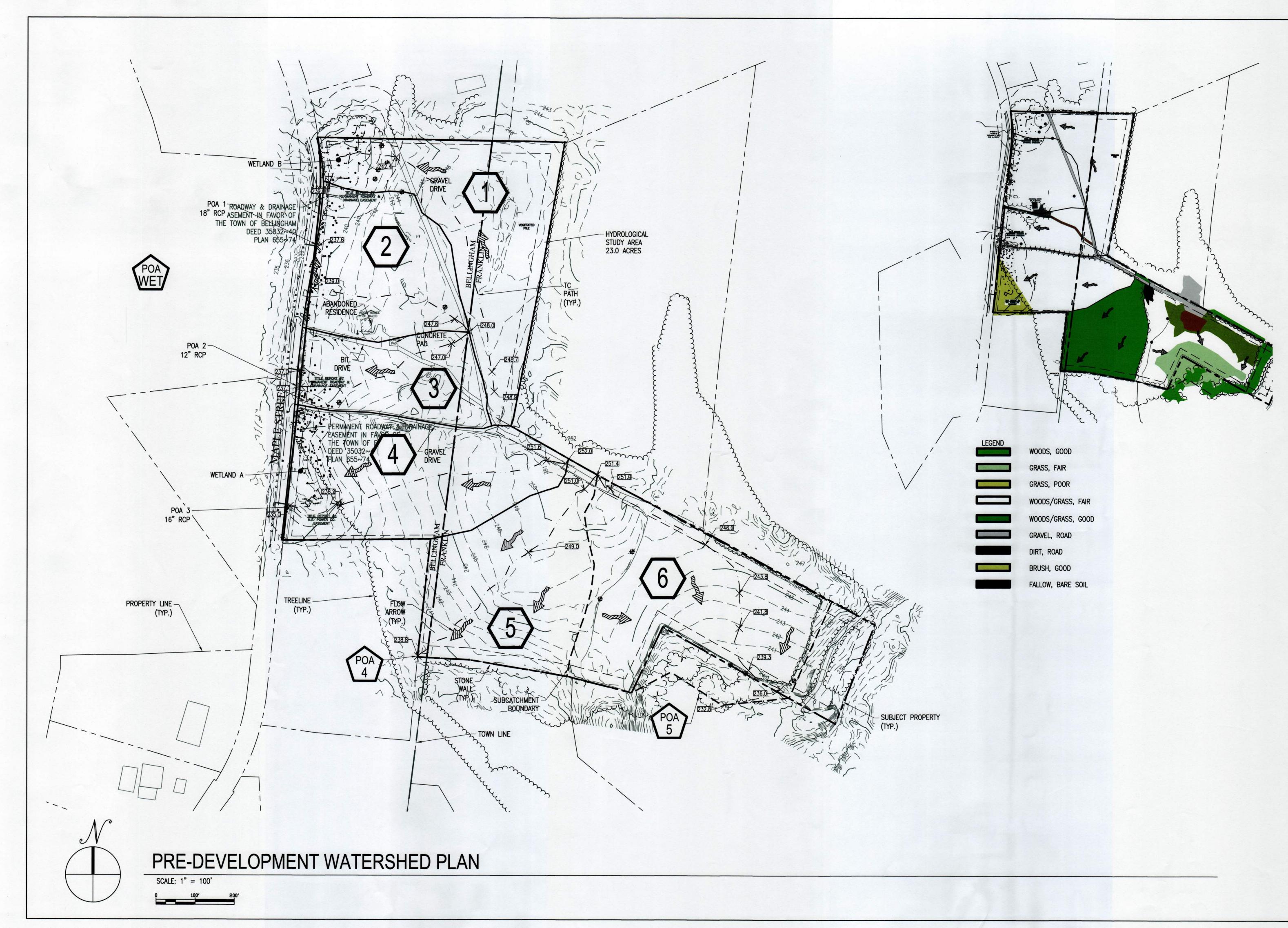
but with particular targeting of Buckthorn (Rhamnus spp.) species.

3. Only treat invasive plants that are painted, tagged or otherwise



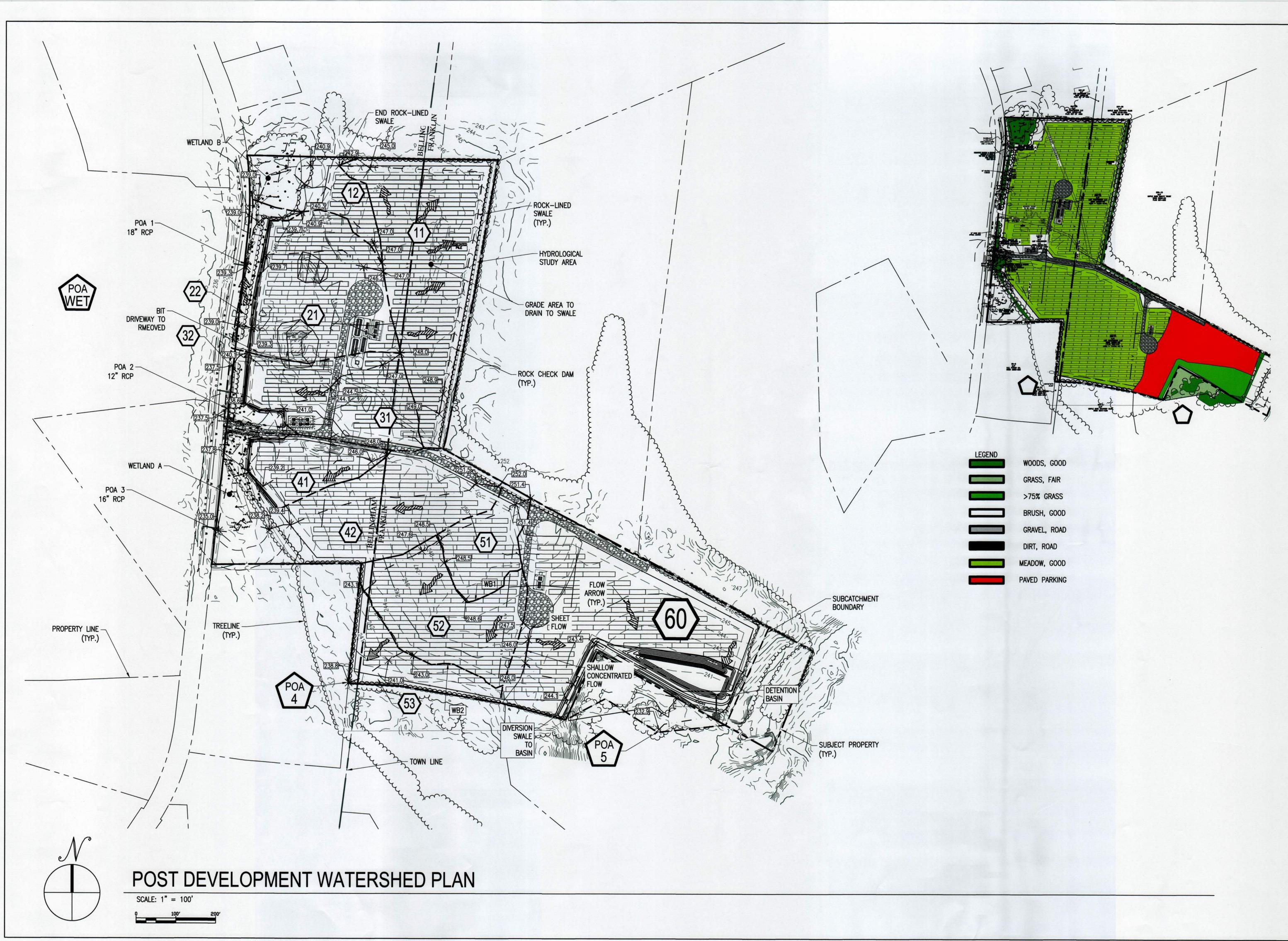


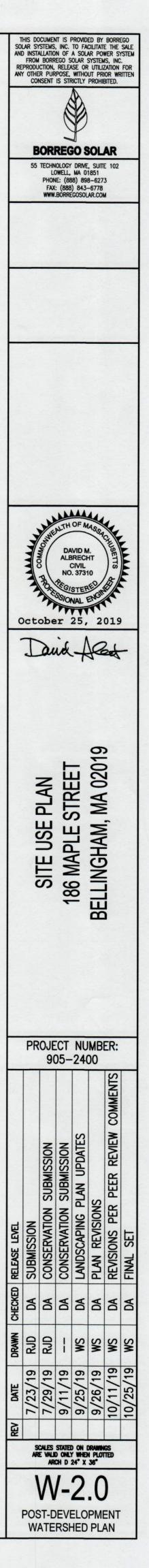
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BORREGO SOLAR							
55 TECHNOLOGY DRIVE, SUITE 102 LOWELL, MA 01851 PHONE: (888) 898-6273 FAX: (888) 843-6778 WWW.BORREGOSOLAR.COM							
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		OJE 90	CCT D5-	NU 240	IMBI DO	ER:	
		OJE 90	CCT D5-	NU 240	IMB DO	ER:	
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RELEASE LEVEL	PR	OJE 90	CT 5- NOISSIMANS NOI	NU 240	IMBI DO	ER:	FINAL SET
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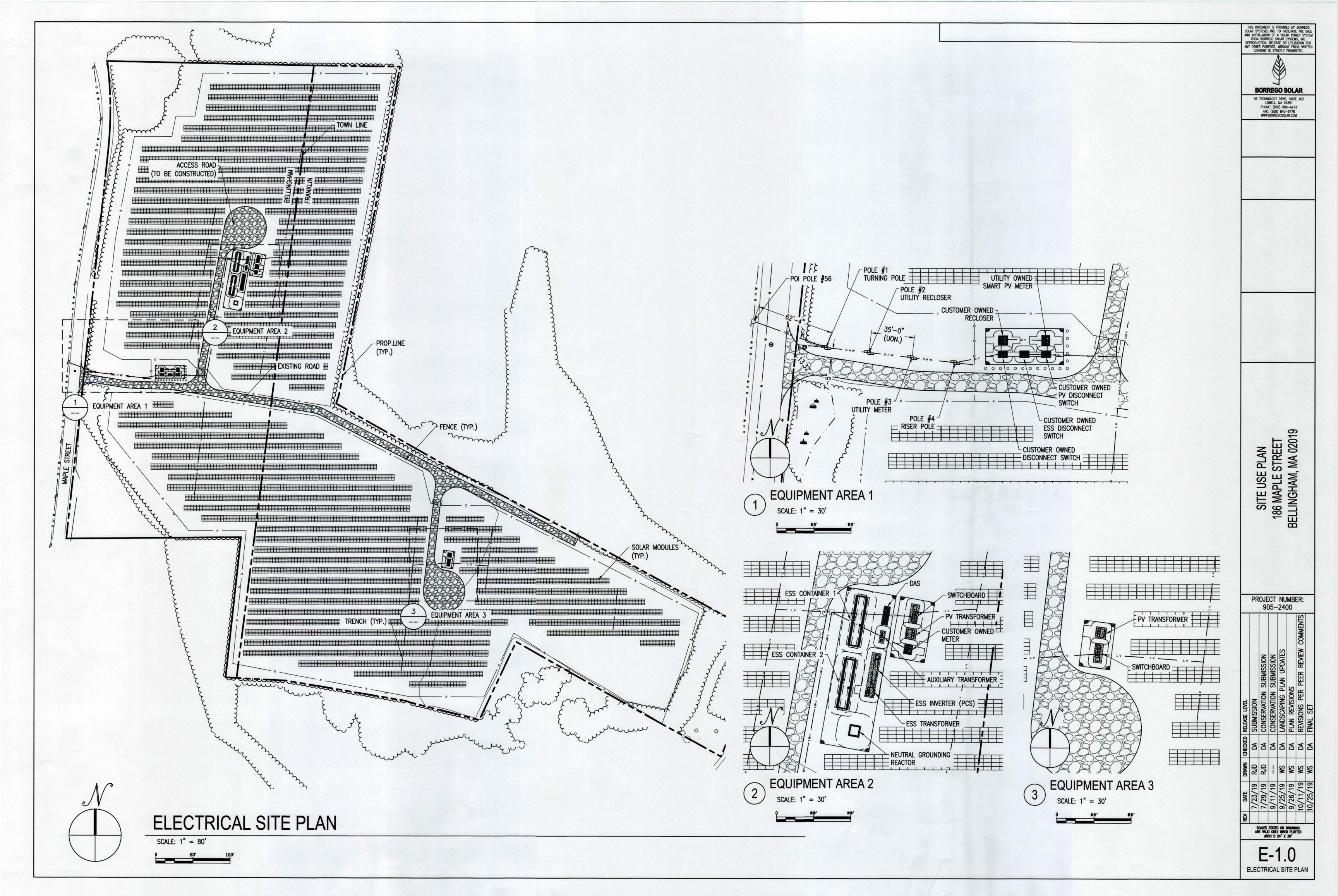


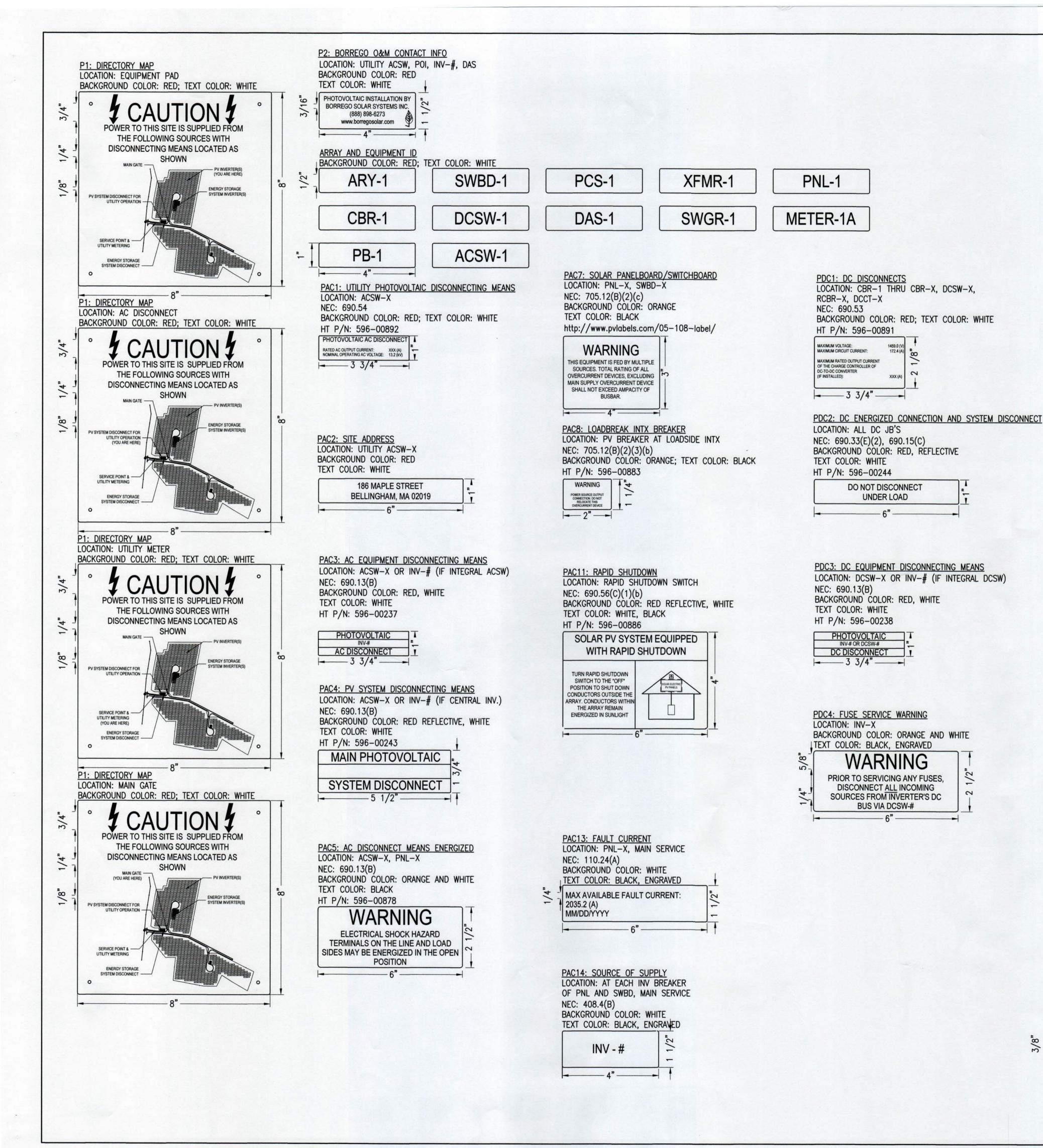
LEGEND						



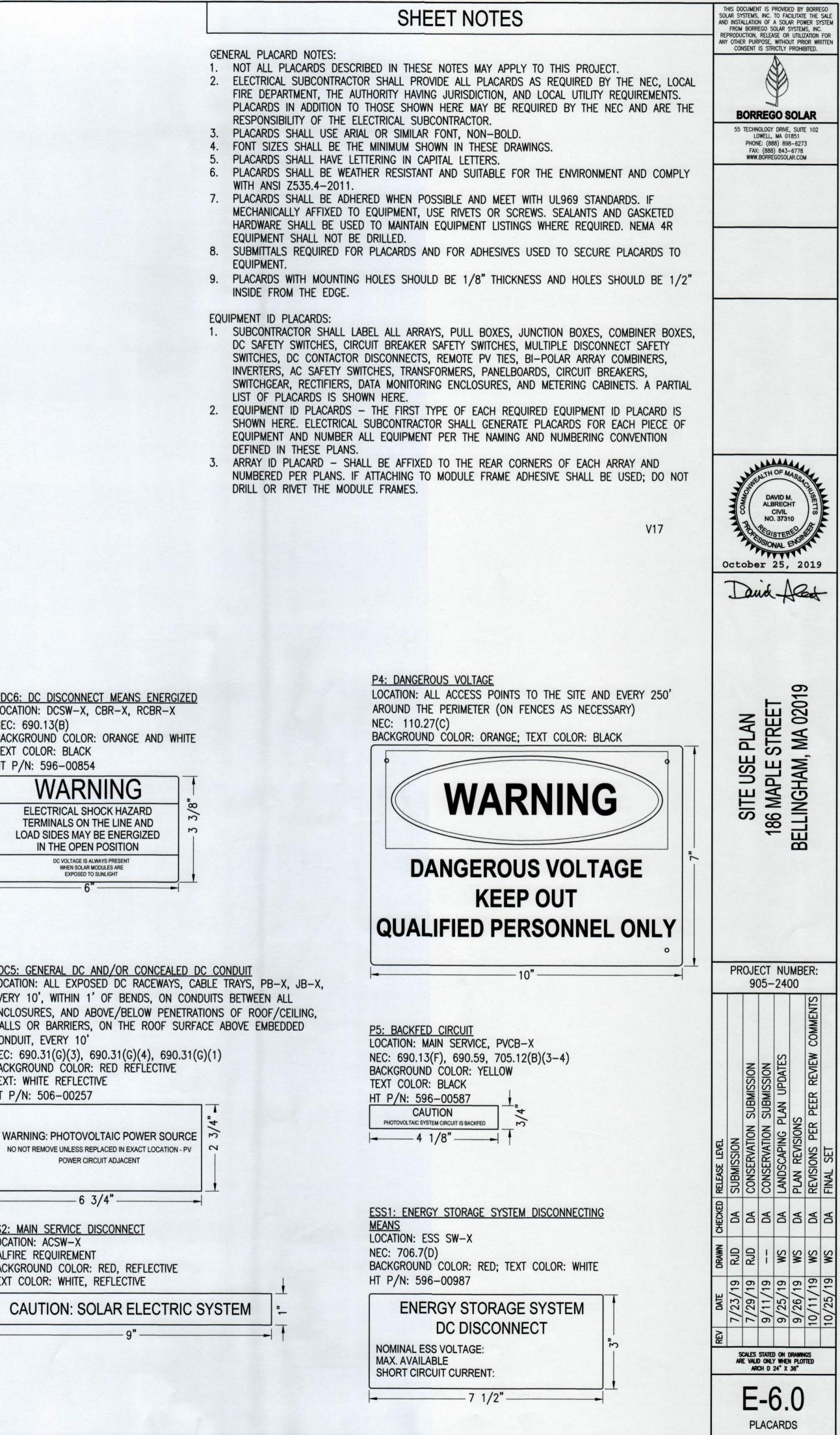


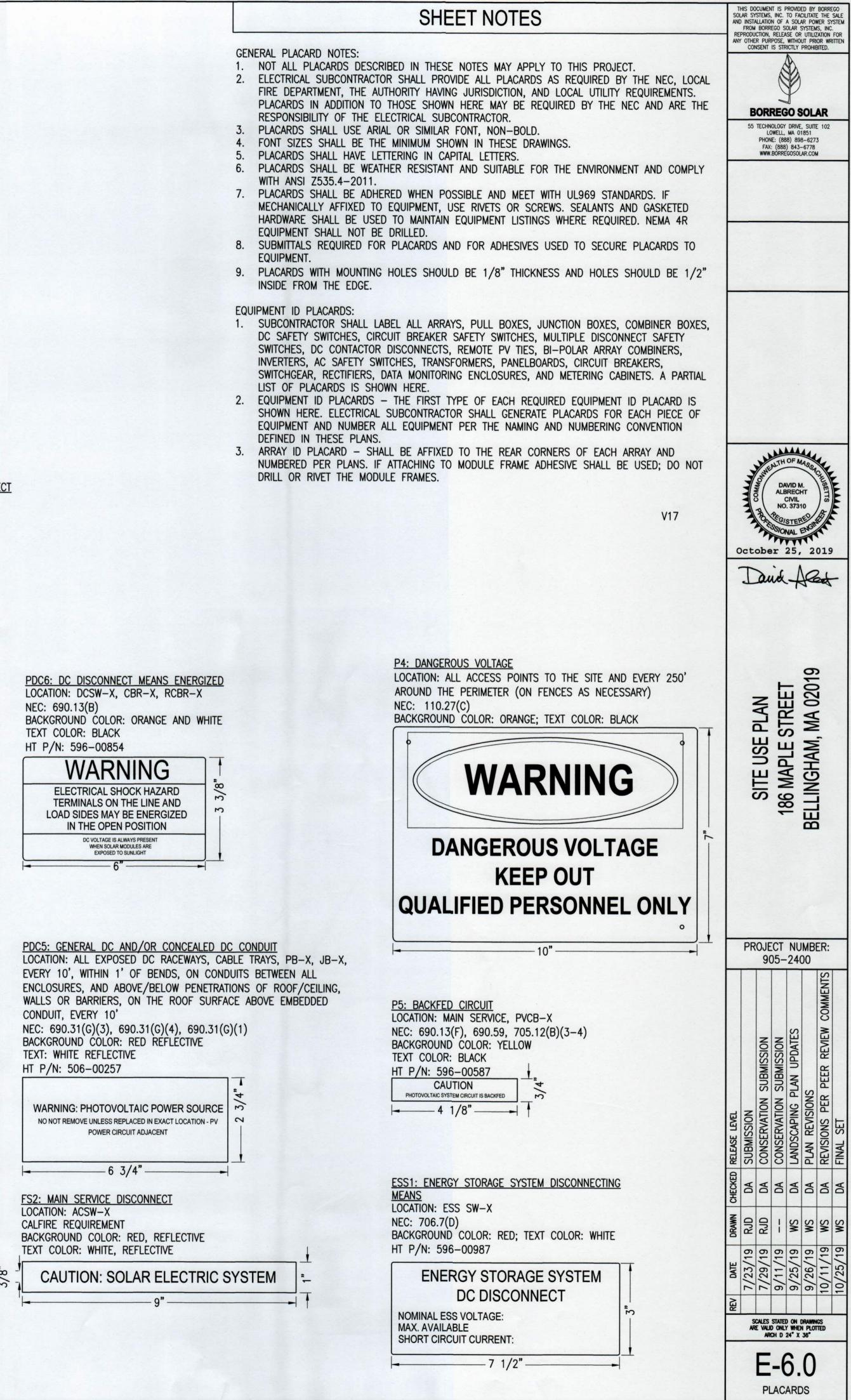






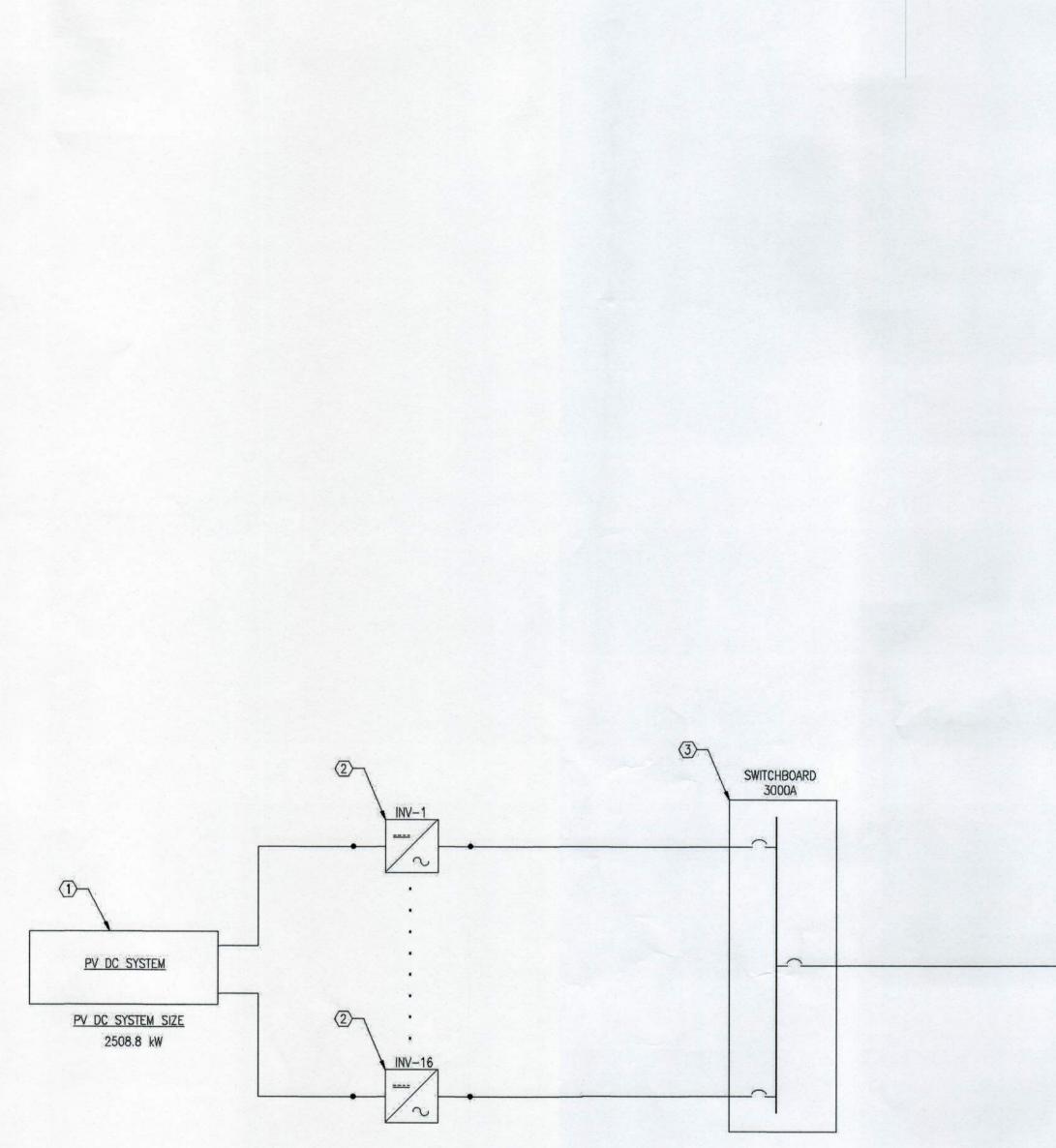
LOCATION: DCSW-X, CBR-X, RCBR-X NEC: 690.13(B)



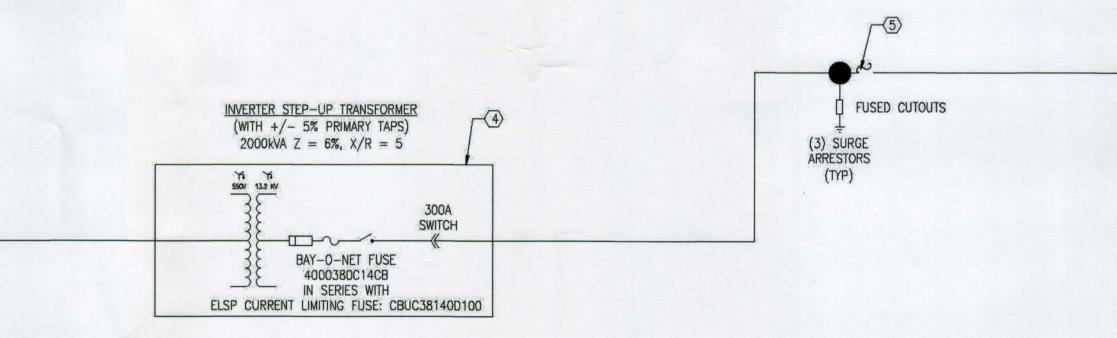


PRESALE AC SINGLE LINE DIAGRAM - SWANSON ROAD - ROSCOE IL - SITE A - 2MWAC

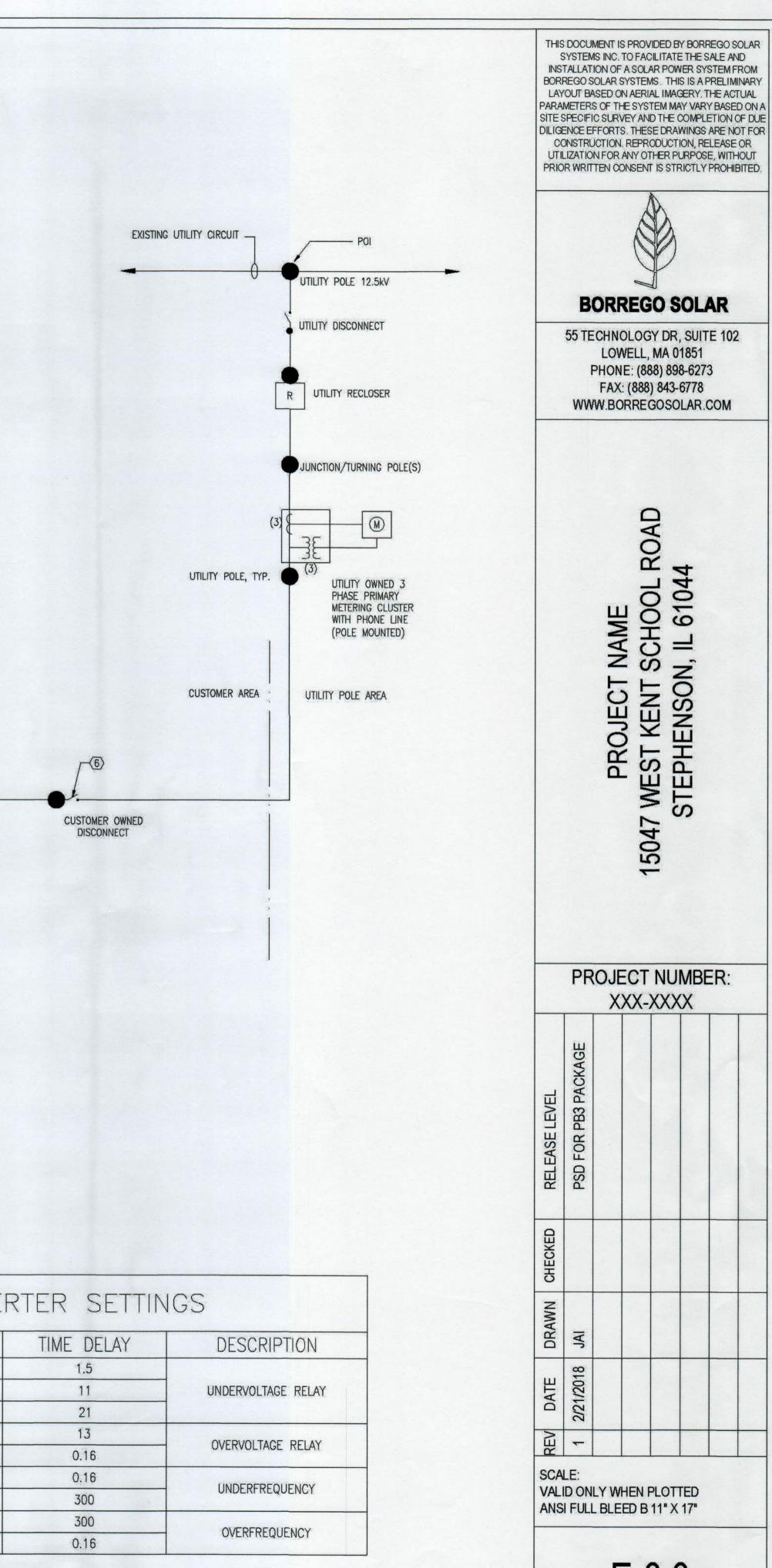
SCALE: NTS



	ELECTRICAL EQUIPMENT SCHEDULE								
REF. #	TOTAL	DESCRIPTION							
	18441	HANWHA Q.PEAK DUO L-G5.3 390W MODULES (27 MODULES PER STRING)							
2	32	CHINT CPS SCH125KTL-DO/US-600 STRING INVERTER							
$\langle 3 \rangle$	1	2500A SWITCHBOARD, 600VAC							
4	1	2000KVA TRANSFORMER, 3 PHASE							
5	1	15kV POLE MOUNTED, 900A, 65KAIC, DISCONNECT LOAD BREAK SWITCH, GANG OPERATED, LOCKABLE, WITH FUSED CUTOUTS							



		PROPC	SED INVE	F
DE	VICE	PICKUP	UNITS	Г
1	27-1	300	Volts	
2	27-2	420	Volts	
2	27-3	528	Volts	
5	59-1	660	Volts	
5	59-2	720	Volts	
8	1U-1	57.0	Hz	
8	1U-2	58.5	Hz	
8	10-1	60.5	Hz	
8	10-2	62.0	Hz	



E-0.0