

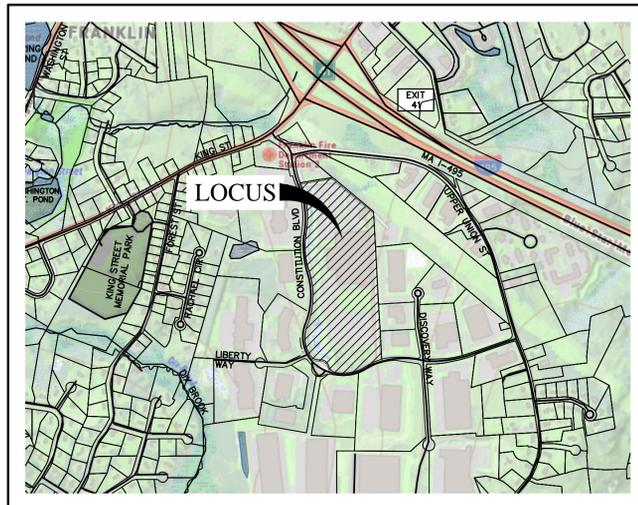
# SITE DEVELOPMENT PLANS

## FOR

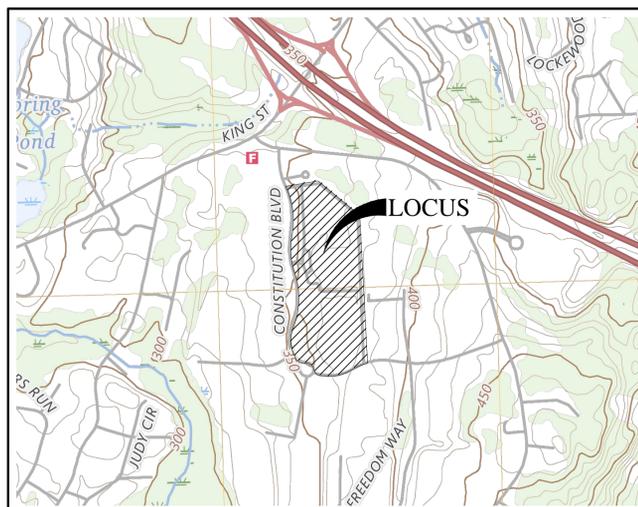
# SOLAR CANOPY & GROUND MOUNT PROJECT

LOCATED AT  
DELL CAMPUS  
50 CONSTITUTION BOULEVARD  
FRANKLIN, MASSACHUSETTS 02038

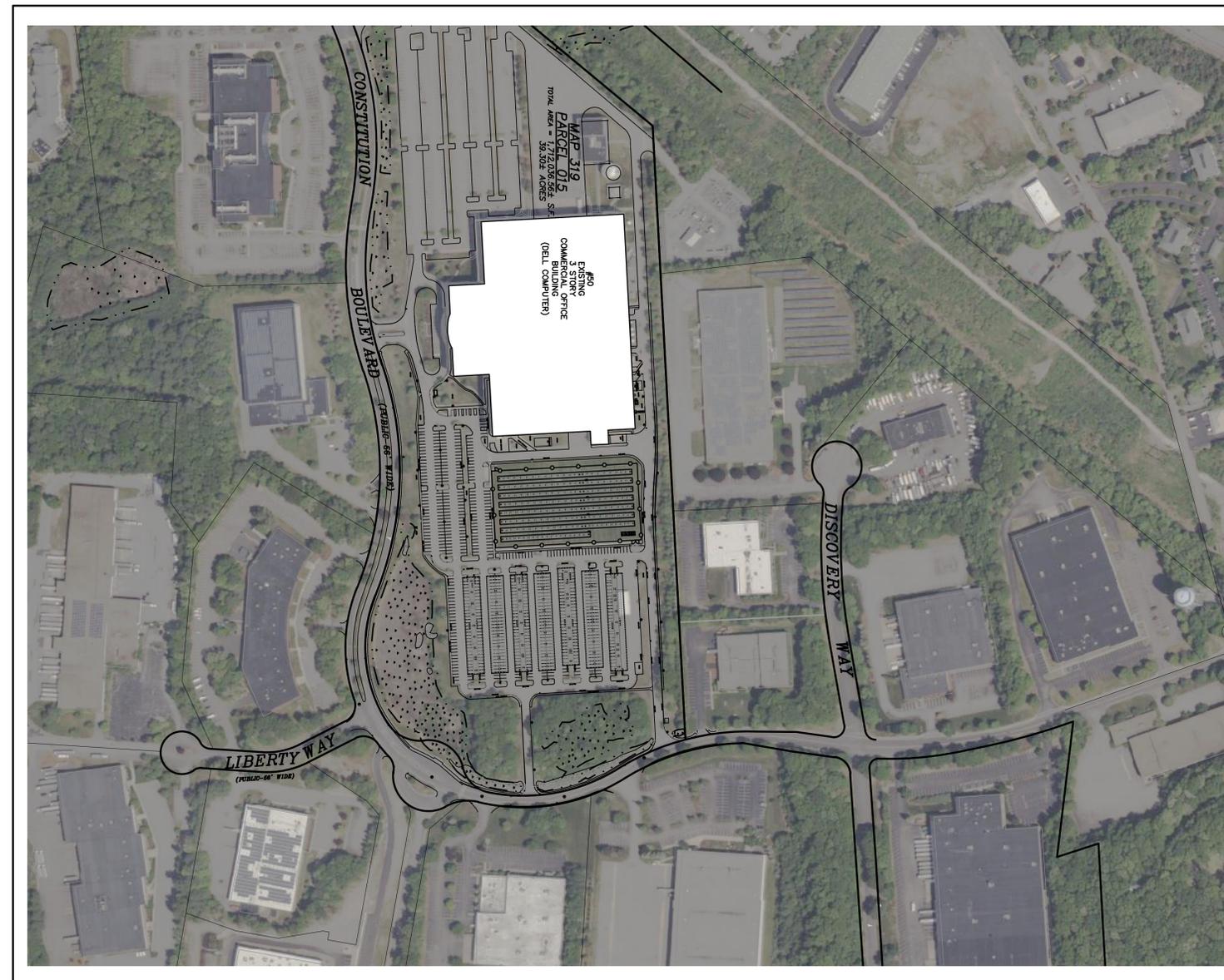
DATE: FEBRUARY 6, 2025  
REVISED: MARCH 25, 2025



VICINITY MAP  
1" = 1,000'



LOCUS MAP  
1" = 1,000'



OVERALL LOCATION PLAN  
SCALE: 1" = 200'

INDEX OF PLANS		
SHEET NO.	TITLE	SCALE
1	COVER SHEET	1" = 200'
2	OVERALL EXISTING CONDITIONS PLAN	1" = 150'
3	EXISTING CONDITIONS PLAN	1" = 40'
4	OVERALL SITE DEVELOPMENT PLAN	1" = 150'
5	SITE DEVELOPMENT PLAN	1" = 40'
6	DETAILS PLAN	N.T.S.

**OWNER:**

EMC CORPORATION  
C/O EMC CORP-REAL ESTATE DEP  
171 SOUTH STREET  
HOPKINTON, MA 01748

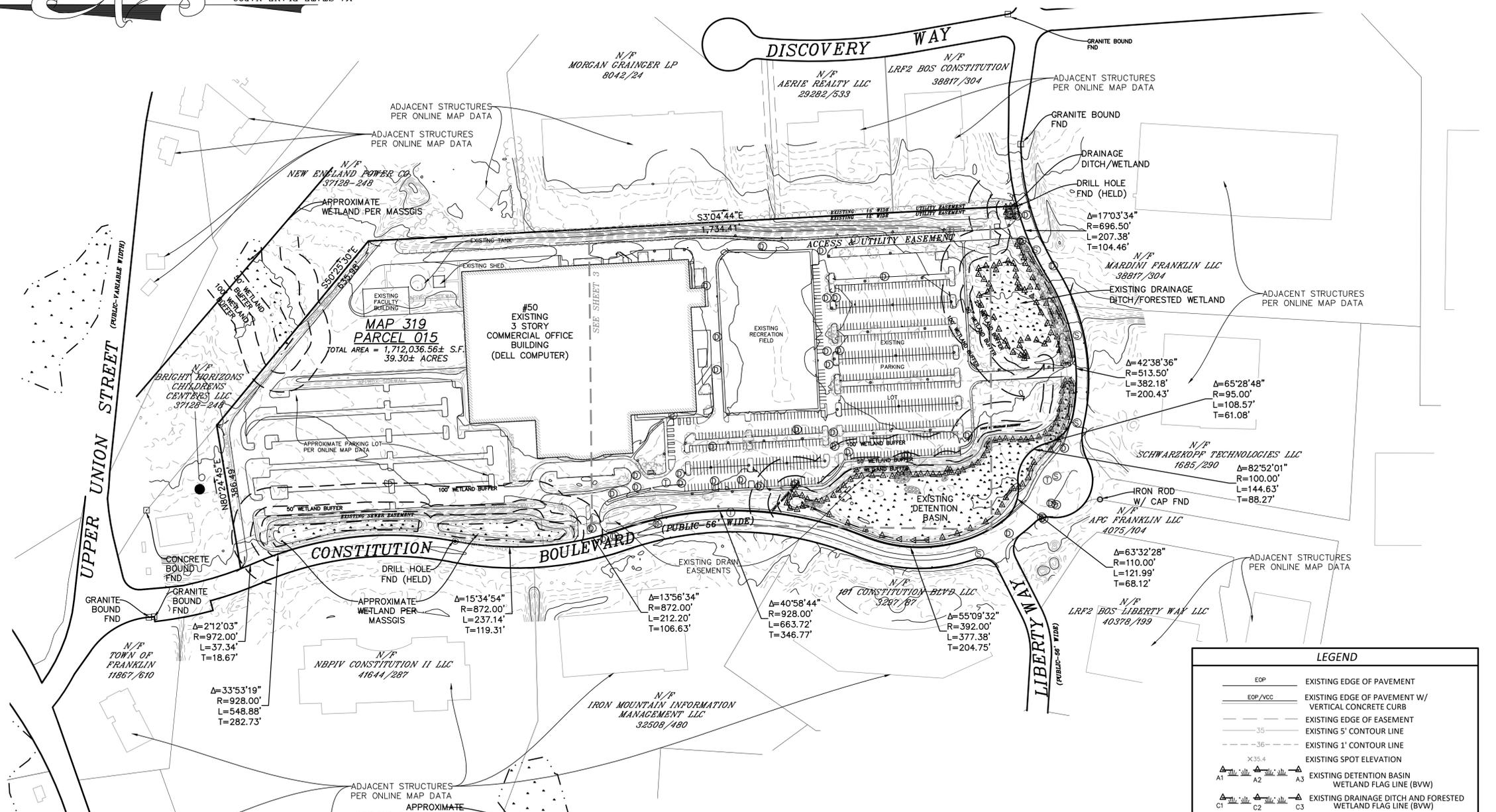
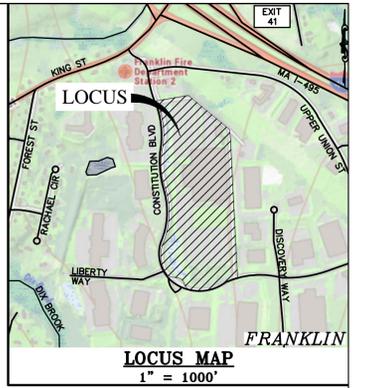
**APPLICANT:**

EMC CORPORATION  
176 SOUTH STREET  
HOPKINTON, MA 01748

**ENGINEER:**

**Atlantic**<sup>®</sup>  
DESIGN ENGINEERS, INC.  
P.O. Box 1051, Sandwich, MA 02563  
PHONE NUMBER: (508) 888-9282





- GENERAL NOTES:**
- RECORD OWNER(S): EMC CORPORATION  
C/O EMC CORP-REAL ESTATE DEP.  
171 SOUTH STREET  
HOPKINTON, MA 01748  
BOOK 12002 PAGE 222
- THE LOCUS PROPERTY IS SHOWN AS PARCEL 015 ON THE TOWN OF FRANKLIN ASSESSOR'S MAP 319. THE LOCUS PROPERTY AREA IS ±39.3 ACRES (±1,712,023.5 SF).
  - THE PROPERTY IS ZONED IN THE INDUSTRIAL DISTRICT (I) PER THE TOWN OF FRANKLIN ZONING MAP.
  - EXISTING CONDITIONS AND TOPOGRAPHY SHOWN HEREON ARE BASED UPON FIELD SURVEYS BY ATLANTIC DESIGN ENGINEERS IN JANUARY OF 2025, AND SUPPLEMENTED WITH DATA OBTAINED FROM THE MASSACHUSETTS GEOGRAPHIC INFORMATION SYSTEMS (MASSGIS). ALL ELEVATIONS BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD88). ALL HORIZONTAL LOCATIONS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83).
  - ON-SITE WETLAND RESOURCE AREAS SHOWN HEREON ARE BASED UPON A WETLAND DELINEATION COMPLETED BY GODDARD CONSULTING, LLC IN DECEMBER OF 2024, FIELD LOCATED BY ATLANTIC DESIGN ENGINEERS, INC. IN JANUARY OF 2025. ADJACENT WETLAND RESOURCE AREAS SHOWN HEREON ARE BASED ON DATA OBTAINED FROM THE MASSACHUSETTS GIS INFORMATION SYSTEM.
  - THE LOCUS PROPERTY LINES ARE BASED UPON A DEED (BOOK 12002 PAGE 222) AND RECORD PLAN REFERRED TO IN SAID DEED (PLAN #529 OF 1993, LOT A-14) WITH ALL BEARINGS ADJUSTED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), AND ARE BASED UPON FIELD SURVEYS COMPLETED BY ATLANTIC DESIGN ENGINEERS, INC. IN JANUARY 2025.
  - CERTAIN ADJACENT PROPERTY LINES SHOWN HEREON ARE FROM DATA OBTAINED FROM THE MASSACHUSETTS GIS INFORMATION SYSTEM, BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD83), AND ARE NOT BASED UPON A BOUNDARY SURVEY BY ATLANTIC DESIGN ENGINEERS, INC.
  - THE LOCUS PROPERTY DOES NOT LIE WITHIN AN AREA OF CRITICAL ENVIRONMENTAL CONCERN (ACEC) BASED UPON A REVIEW OF THE MASSACHUSETTS GEOGRAPHIC INFORMATION SYSTEM.
  - THE LOCUS PROPERTY DOES NOT LIE WITHIN AN AREA OF ESTIMATED HABITAT OF RARE HABITAT (NHESP) BASED UPON A REVIEW OF THE MASSACHUSETTS GEOGRAPHIC INFORMATION SYSTEM.
  - THE PROPERTY DOES NOT LIE WITHIN A WATER PROTECTION DISTRICT OR ZONE II BASED UPON A REVIEW OF THE FRANKLIN ZONING MAP AND FRANKLIN GEOGRAPHIC INFORMATION SYSTEM.
  - THE LOCUS PROPERTY LIES WITHIN ZONE X (A MINIMAL FLOOD AREA) BASED UPON A REVIEW OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBERS 25021C0178E AND 25021C0317E EFFECTIVE DATE JULY 17, 2012.
  - LOCATIONS OF UNDERGROUND UTILITIES ARE BASED UPON AVAILABLE AS-BUILT DRAWINGS PROVIDED BY THE TOWN OF FRANKLIN DATED 10-14-1999.
  - DRAINAGE PIPE INVERT INFORMATION SHOWN HEREON ARE BASED UPON AVAILABLE AS-BUILT DRAWINGS PROVIDED BY THE TOWN OF FRANKLIN DATED 10-14-1999, AND SUPPLEMENTED BY FIELD SURVEY BY ATLANTIC DESIGN ENGINEERS, INC. IN JANUARY OF 2025.
  - EASEMENTS SHOWN HEREON ARE BASED ON A PLAN RECORDED IN THE NORFOLK COUNTY REGISTRY OF DEEDS (PLAN #1096B OF 1985).

ZONING REQUIREMENTS	
TOWN OF FRANKLIN ZONING BYLAWS; JUNE 23, 2024	
CHAPTER 185 ATTACHMENT 9 (INDUSTRIAL DISTRICT)	
	REQUIRED
MINIMUM LOT SIZE	40,000 SF
MINIMUM LOT DIMENSIONS:	
FRONTAGE	175 FEET
DEPTH	200 FEET
WIDTH	157.5 FEET
MINIMUM YARD DIMENSIONS:	
FRONT YARD <sup>1</sup>	40 FEET
SIDE YARD <sup>1</sup>	30 FEET
REAR YARD <sup>1</sup>	30 FEET
MAXIMUM BUILDING HEIGHT	3 STORIES
MAXIMUM IMPERVIOUS COVERAGE:	
STRUCTURES	70%
STRUCTURES PLUS PAVING	80%

NOTES:  
1) NO MEDIUM-SCALE OR LARGE-SCALE GROUND-MOUNTED SOLAR ENERGY SYSTEMS ON PARCELS WITHIN OR ADJACENT TO RESIDENTIAL ZONING DISTRICTS SHALL BE LOCATED NEARER TO THE LOT LINES THAN 75 FEET (PER ZONING BYLAW CHAPTER 185 - ATTACHMENT 4)

LEGEND	
	EXISTING EDGE OF PAVEMENT
	EXISTING EDGE OF PAVEMENT W/ VERTICAL CONCRETE CURB
	EXISTING EDGE OF EASEMENT
	EXISTING 5' CONTOUR LINE
	EXISTING 1' CONTOUR LINE
	EXISTING SPOT ELEVATION
	EXISTING DETENTION BASIN WETLAND FLAG LINE (BWV)
	EXISTING DRAINAGE DITCH AND FORESTED WETLAND FLAG LINE (BWV)
	EXISTING WETLAND BUFFER
	EXISTING FIRE HYDRANT
	EXISTING SURVEY MONUMENTS
	EXISTING BENCHMARK
	EXISTING SEWER MANHOLE
	EXISTING DRAINAGE MANHOLE
	EXISTING DRAINAGE CATCH BASIN
	EXISTING DOUBLE DRAINAGE CATCH BASIN
	EXISTING TELEPHONE MANHOLE
	EXISTING ELECTRIC MANHOLE
	EXISTING GAS GATE VALVE
	EXISTING WATER GATE VALVE
	EXISTING ELECTRIC HAND HOLE
	EXISTING DRAINAGE LINE
	EXISTING IRRIGATION
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING ROOF DRAIN LINE
	EXISTING TREE LINE
	EXISTING TREE
	EXISTING LIGHT POST

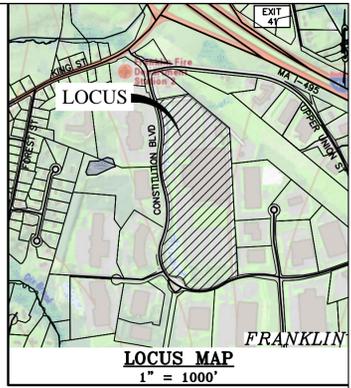
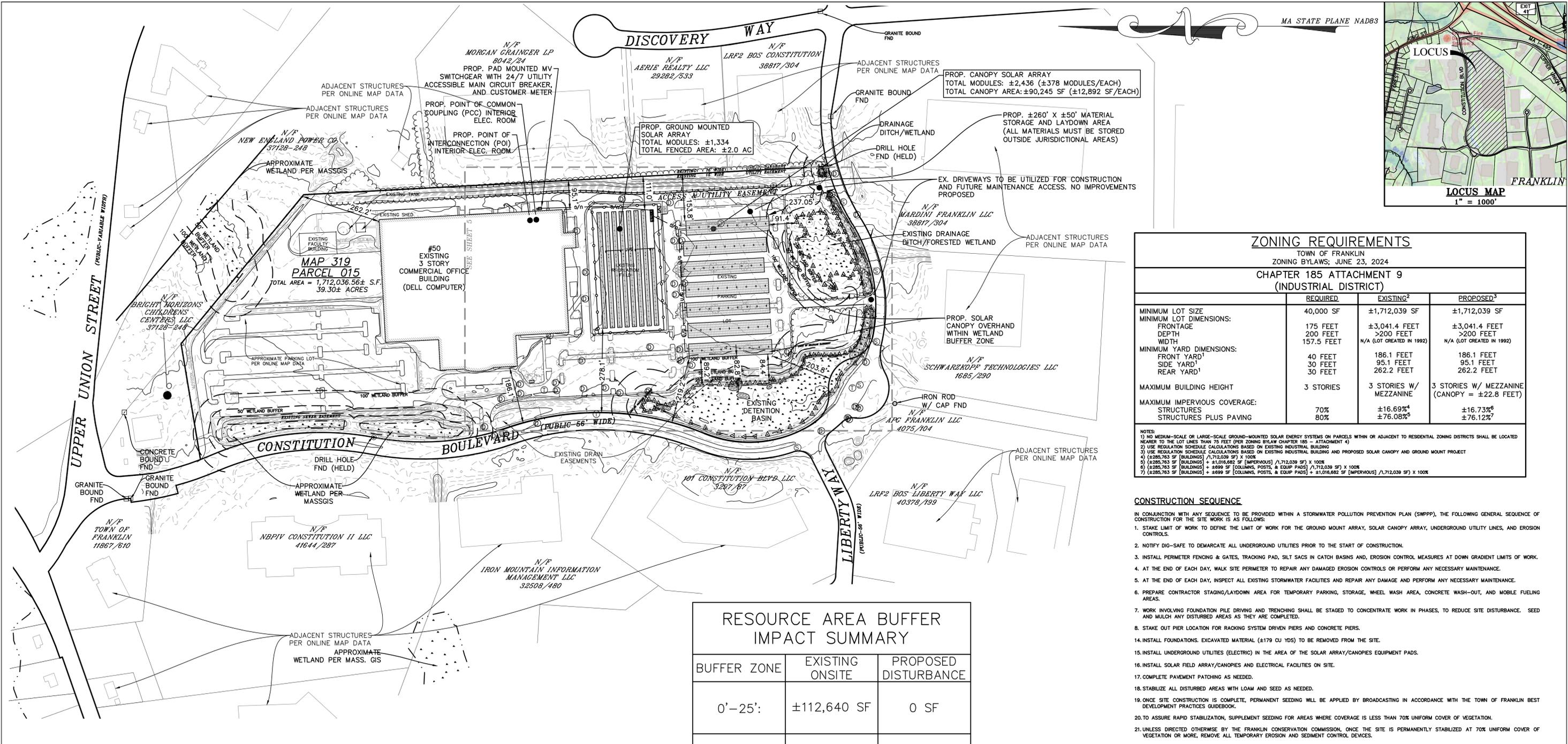




**SEE SHEET 2  
FOR GENERAL NOTES  
AND OVERALL LOCATION PLAN**

LEGEND	
— EOP	EXISTING EDGE OF PAVEMENT
— EOP/VCC	EXISTING EDGE OF PAVEMENT W/ VERTICAL CONCRETE CURB
---	EXISTING EDGE OF EASEMENT
---	EXISTING 5' CONTOUR LINE
---	EXISTING 1' CONTOUR LINE
X 35.4	EXISTING SPOT ELEVATION
A1, A2, A3	EXISTING DETENTION BASIN WETLAND FLAG LINE (BVW)
C1, C2, C3	EXISTING DRAINAGE DITCH AND FORESTED WETLAND FLAG LINE (BVW)
---	EXISTING WETLAND BUFFER
⊗	EXISTING FIRE HYDRANT
⊙	EXISTING SURVEY MONUMENTS
⊕	EXISTING BENCHMARK
⊙	EXISTING SEWER MANHOLE
⊙	EXISTING DRAINAGE MANHOLE
⊙	EXISTING DRAINAGE CATCH BASIN
⊙	EXISTING DOUBLE DRAINAGE CATCH BASIN
⊙	EXISTING TELEPHONE MANHOLE
⊙	EXISTING ELECTRIC MANHOLE
⊙	EXISTING GAS GATE VALVE
⊙	EXISTING WATER GATE VALVE
⊙	EXISTING ELECTRIC HAND HOLE
D	EXISTING DRAINAGE LINE
IR	EXISTING IRRIGATION
W	EXISTING WATER LINE
GAS	EXISTING GAS LINE
E	EXISTING UNDERGROUND ELECTRIC LINE
RD	EXISTING ROOF DRAIN LINE
—	EXISTING TREE LINE
⊙	EXISTING TREE
⊙	EXISTING LIGHT POST

**#50  
EXISTING  
3 STORY  
COMMERCIAL OFFICE  
BUILDING  
(DELL COMPUTER)**



ZONING REQUIREMENTS			
TOWN OF FRANKLIN ZONING BYLAWS; JUNE 23, 2024			
CHAPTER 185 ATTACHMENT 9 (INDUSTRIAL DISTRICT)			
	REQUIRED	EXISTING <sup>2</sup>	PROPOSED <sup>3</sup>
MINIMUM LOT SIZE	40,000 SF	±1,712,039 SF	±1,712,039 SF
MINIMUM LOT DIMENSIONS:			
FRONTAGE	175 FEET	±3,041.4 FEET	±3,041.4 FEET
DEPTH	200 FEET	>200 FEET	>200 FEET
WIDTH	157.5 FEET	N/A (LOT CREATED IN 1992)	N/A (LOT CREATED IN 1992)
MINIMUM YARD DIMENSIONS:			
FRONT YARD <sup>1</sup>	40 FEET	186.1 FEET	186.1 FEET
SIDE YARD <sup>1</sup>	30 FEET	95.1 FEET	95.1 FEET
REAR YARD <sup>1</sup>	30 FEET	262.2 FEET	262.2 FEET
MAXIMUM BUILDING HEIGHT	3 STORIES	3 STORIES W/ MEZZANINE	3 STORIES W/ MEZZANINE (CANOPY = ±22.8 FEET)
MAXIMUM IMPERVIOUS COVERAGE:			
STRUCTURES	70%	±16.69% <sup>4</sup>	±16.73% <sup>6</sup>
STRUCTURES PLUS PAVING	80%	±76.08% <sup>5</sup>	±76.12% <sup>7</sup>

NOTES:  
 1) NO MEDIUM-SCALE OR LARGE-SCALE GROUND-MOUNTED SOLAR ENERGY SYSTEMS ON PARCELS WITHIN OR ADJACENT TO RESIDENTIAL ZONING DISTRICTS SHALL BE LOCATED NEARER TO THE LOT LINES THAN 75 FEET (PER ZONING BYLAW CHAPTER 185 - ATTACHMENT 4)  
 2) USE REGULATION SCHEDULE CALCULATIONS BASED ON EXISTING INDUSTRIAL BUILDING  
 3) USE REGULATION SCHEDULE CALCULATIONS BASED ON EXISTING INDUSTRIAL BUILDING AND PROPOSED SOLAR CANOPY AND GROUND MOUNT PROJECT  
 4) (±285,763 SF [BUILDINGS] / 1,712,039 SF) X 100%  
 5) (±285,763 SF [BUILDINGS] + ±1,016,662 SF [IMPERVIOUS] / 1,712,039 SF) X 100%  
 6) (±285,763 SF [BUILDINGS] + ±699 SF [COLUMNS, POSTS, & EQUIP PADS] / 1,712,039 SF) X 100%  
 7) (±285,763 SF [BUILDINGS] + ±699 SF [COLUMNS, POSTS, & EQUIP PADS] + ±1,016,662 SF [IMPERVIOUS] / 1,712,039 SF) X 100%

**CONSTRUCTION SEQUENCE**

- IN CONJUNCTION WITH ANY SEQUENCE TO BE PROVIDED WITHIN A STORMWATER POLLUTION PREVENTION PLAN (SWPPP), THE FOLLOWING GENERAL SEQUENCE OF CONSTRUCTION FOR THE SITE WORK IS AS FOLLOWS:
- STAKE LIMIT OF WORK TO DEFINE THE LIMIT OF WORK FOR THE GROUND MOUNT ARRAY, SOLAR CANOPY ARRAY, UNDERGROUND UTILITY LINES, AND EROSION CONTROLS.
  - NOTIFY DIG-SAFE TO DEMARCATe ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
  - INSTALL PERIMETER FENCING & GATES, TRACKING PAD, SILT SACS IN CATCH BASINS AND, EROSION CONTROL MEASURES AT DOWN GRADIENT LIMITS OF WORK.
  - AT THE END OF EACH DAY, WALK SITE PERIMETER TO REPAIR ANY DAMAGED EROSION CONTROLS OR PERFORM ANY NECESSARY MAINTENANCE.
  - AT THE END OF EACH DAY, INSPECT ALL EXISTING STORMWATER FACILITIES AND REPAIR ANY DAMAGE AND PERFORM ANY NECESSARY MAINTENANCE.
  - PREPARE CONTRACTOR STAGING/LAYDOWN AREA FOR TEMPORARY PARKING, STORAGE, WHEEL WASH AREA, CONCRETE WASH-OUT, AND MOBILE FUELING AREAS.
  - WORK INVOLVING FOUNDATION PILE DRIVING AND TRENCHING SHALL BE STAGED TO CONCENTRATE WORK IN PHASES, TO REDUCE SITE DISTURBANCE. SEED AND MULCH ANY DISTURBED AREAS AS THEY ARE COMPLETED.
  - STAKE OUT PIER LOCATION FOR RACKING SYSTEM DRIVEN PIERS AND CONCRETE PIERS.
  - INSTALL FOUNDATIONS, EXCAVATED MATERIAL (±179 CU YDS) TO BE REMOVED FROM THE SITE.
  - INSTALL UNDERGROUND UTILITIES (ELECTRIC) IN THE AREA OF THE SOLAR ARRAY/CANOPIES EQUIPMENT PADS.
  - INSTALL SOLAR FIELD ARRAY/CANOPIES AND ELECTRICAL FACILITIES ON SITE.
  - COMPLETE PAVEMENT PATCHING AS NEEDED.
  - STABILIZE ALL DISTURBED AREAS WITH LOAM AND SEED AS NEEDED.
  - ONCE SITE CONSTRUCTION IS COMPLETE, PERMANENT SEEDING WILL BE APPLIED BY BROADCASTING IN ACCORDANCE WITH THE TOWN OF FRANKLIN BEST DEVELOPMENT PRACTICES GUIDEBOOK.
  - TO ASSURE RAPID STABILIZATION, SUPPLEMENT SEEDING FOR AREAS WHERE COVERAGE IS LESS THAN 70% UNIFORM COVER OF VEGETATION.
  - UNLESS DIRECTED OTHERWISE BY THE FRANKLIN CONSERVATION COMMISSION, ONCE THE SITE IS PERMANENTLY STABILIZED AT 70% UNIFORM COVER OF VEGETATION OR MORE, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
  - AFTER COMPLETION OF CONSTRUCTION THE SITE WILL BE INSPECTED FOR ANY REMAINING DEBRIS AND, IF FOUND, WILL BE CLEANED AND DISPOSED OF OFF-SITE.

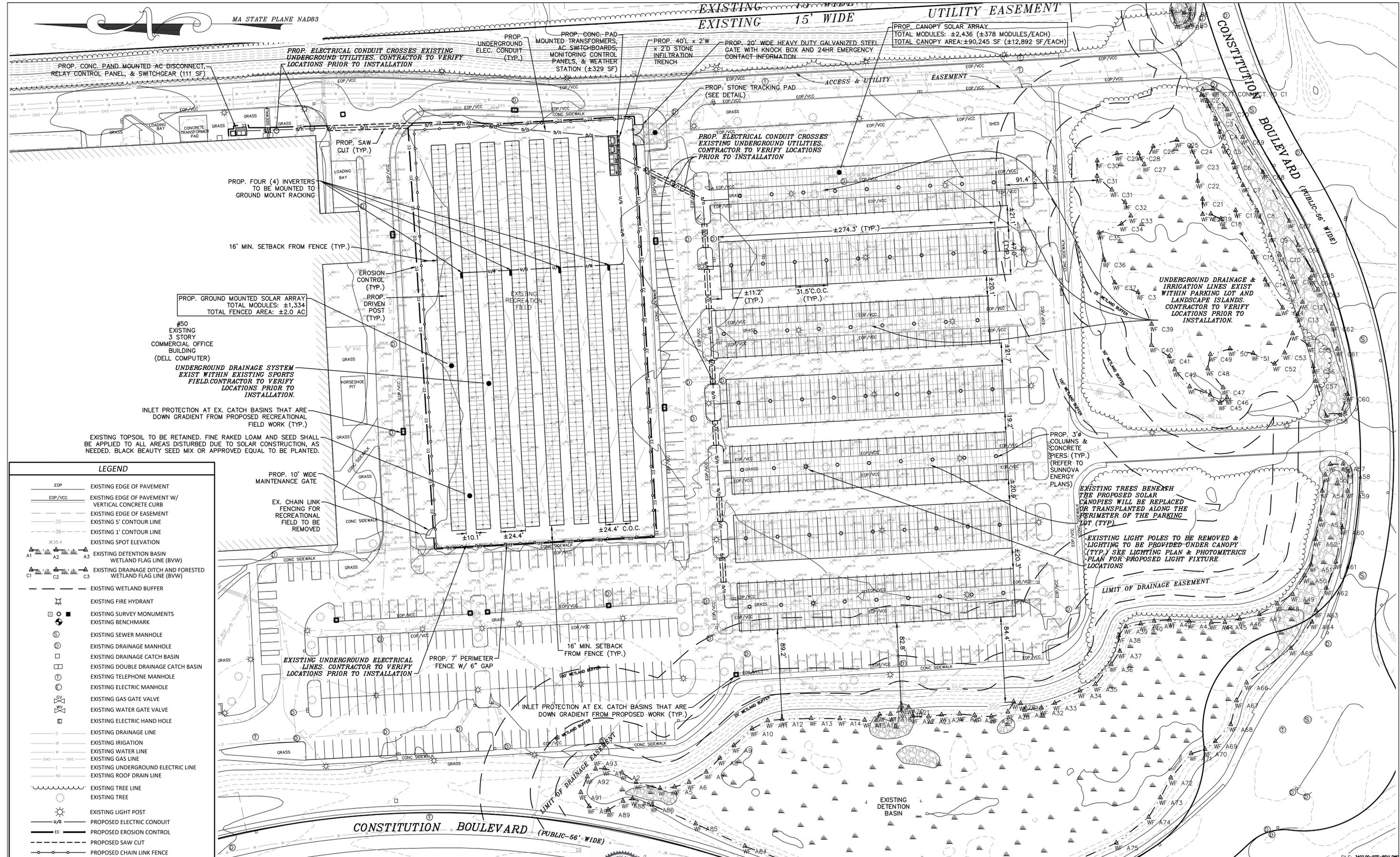
RESOURCE AREA BUFFER IMPACT SUMMARY		
BUFFER ZONE	EXISTING ONSITE	PROPOSED DISTURBANCE
0'-25':	±112,640 SF	0 SF
25'-50':	±76,111 SF	0 SF
50'-100':	±153,664 SF	0 SF
TOTAL:	±342,415 SF	0 SF <sup>1</sup>

NOTES:  
 1) ONLY PORTION OF THE PROPOSED SOLAR PROJECT IN THE BUFFER ZONE IS ±3,478 SF OF CANOPY OVERHANG WITHIN THE 50'-100' WETLAND BUFFER

SEE SHEET 2 FOR GENERAL NOTES. SEE SHEET 5 FOR AND LEGEND. SEE SHEET 6 FOR CONSTRUCTION NOTES

MA STATE PLANE NAD83

EXISTING 15' WIDE UTILITY EASEMENT



PROP. GROUND MOUNTED SOLAR ARRAY  
 TOTAL MODULES: ±1,334  
 TOTAL FENCED AREA: ±2.0 AC

PROP. CANOPY SOLAR ARRAY  
 TOTAL MODULES: ±2,436 (±378 MODULES/EACH)  
 TOTAL CANOPY AREA: ±90,245 SF (±12,892 SF/EACH)

#50 EXISTING 3 STORY COMMERCIAL OFFICE BUILDING (DELL COMPUTER)

UNDERGROUND DRAINAGE SYSTEM EXIST WITHIN EXISTING SPORTS FIELD. CONTRACTOR TO VERIFY LOCATIONS PRIOR TO INSTALLATION.

INLET PROTECTION AT EX. CATCH BASINS THAT ARE DOWN GRADIENT FROM PROPOSED RECREATIONAL FIELD WORK (TYP.)

EXISTING TOPSOIL TO BE RETAINED. FINE RAKED LOAM AND SEED SHALL BE APPLIED TO ALL AREAS DISTURBED DUE TO SOLAR CONSTRUCTION, AS NEEDED. BLACK BEAUTY SEED MIX OR APPROVED EQUAL TO BE PLANTED.

**LEGEND**

- EOP EXISTING EDGE OF PAVEMENT
- EOP/VCC EXISTING EDGE OF PAVEMENT W/ VERTICAL CONCRETE CURB
- EXISTING EDGE OF EASEMENT
- 35 EXISTING 5' CONTOUR LINE
- 36 EXISTING 1' CONTOUR LINE
- X 35.4 EXISTING SPOT ELEVATION
- A1, A2, A3 EXISTING DETENTION BASIN WETLAND FLAG LINE (BVW)
- C1, C2, C3 EXISTING DRAINAGE DITCH AND FORESTED WETLAND FLAG LINE (BVW)
- EXISTING WETLAND BUFFER
- EXISTING FIRE HYDRANT
- EXISTING SURVEY MONUMENTS EXISTING BENCHMARK
- EXISTING SEWER MANHOLE
- EXISTING DRAINAGE MANHOLE
- EXISTING DRAINAGE CATCH BASIN
- EXISTING DOUBLE DRAINAGE CATCH BASIN
- EXISTING TELEPHONE MANHOLE
- EXISTING ELECTRIC MANHOLE
- EXISTING GAS GATE VALVE
- EXISTING WATER GATE VALVE
- EXISTING ELECTRIC HAND HOLE
- D EXISTING DRAINAGE LINE
- IR EXISTING IRRIGATION
- W EXISTING WATER LINE
- GAS EXISTING GAS LINE
- E EXISTING UNDERGROUND ELECTRIC LINE
- RD EXISTING ROOF DRAIN LINE
- EXISTING TREE LINE
- EXISTING TREE
- EXISTING LIGHT POST
- U/G PROPOSED ELECTRIC CONDUIT
- EC PROPOSED EROSION CONTROL
- PROPOSED SAW CUT
- PROPOSED CHAIN LINK FENCE

PROP. 10' WIDE MAINTENANCE GATE

EX. CHAIN LINK FENCING FOR RECREATIONAL FIELD TO BE REMOVED

EXISTING UNDERGROUND ELECTRICAL LINES. CONTRACTOR TO VERIFY LOCATIONS PRIOR TO INSTALLATION

PROP. 7' PERIMETER FENCE W/ 6" GAP

INLET PROTECTION AT EX. CATCH BASINS THAT ARE DOWN GRADIENT FROM PROPOSED WORK (TYP.)

LIMIT OF DRAINAGE EASEMENT

PROP. 3" COLUMNS & CONCRETE PIERS (TYP.) (REFER TO SUNNOVA ENERGY PLANS)

EXISTING TREES BENEATH THE PROPOSED SOLAR CANOPIES WILL BE REPLACED OR TRANSPLANTED ALONG THE PERIMETER OF THE PARKING LOT (TYP.)

EXISTING LIGHT POLES TO BE REMOVED & LIGHTING TO BE PROVIDED UNDER CANOPY (TYP.) SEE LIGHTING PLAN & PHOTOMETRICS PLAN FOR PROPOSED LIGHT FIXTURE LOCATIONS

LIMIT OF DRAINAGE EASEMENT

CONSTITUTION BOULEVARD (PUBLIC-56' WIDE)

**Atlantic** DESIGN ENGINEERS, INC.  
 P.O. Box 1051, Sandwich, MA 02563 (508) 888 - 9282

Designed by :  
 Drawn by :  
 Checked by :  
 Survey chk. by :  
 Approved by :

SCALE  
 SCALE 1" = 40'  
 0 10 20 40 80



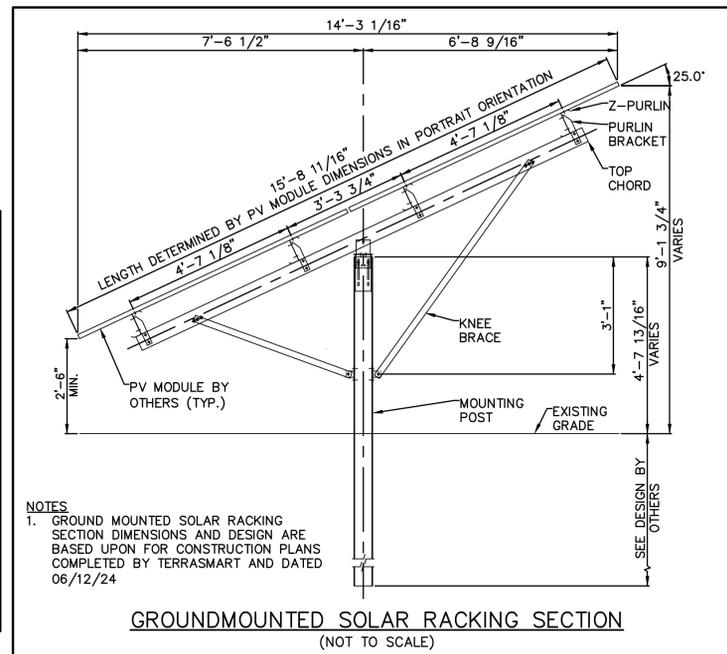
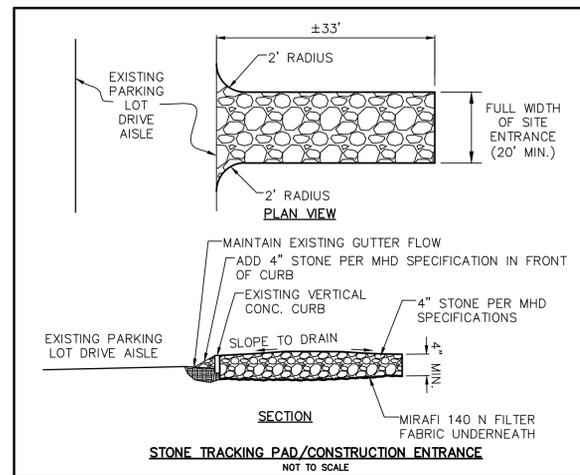
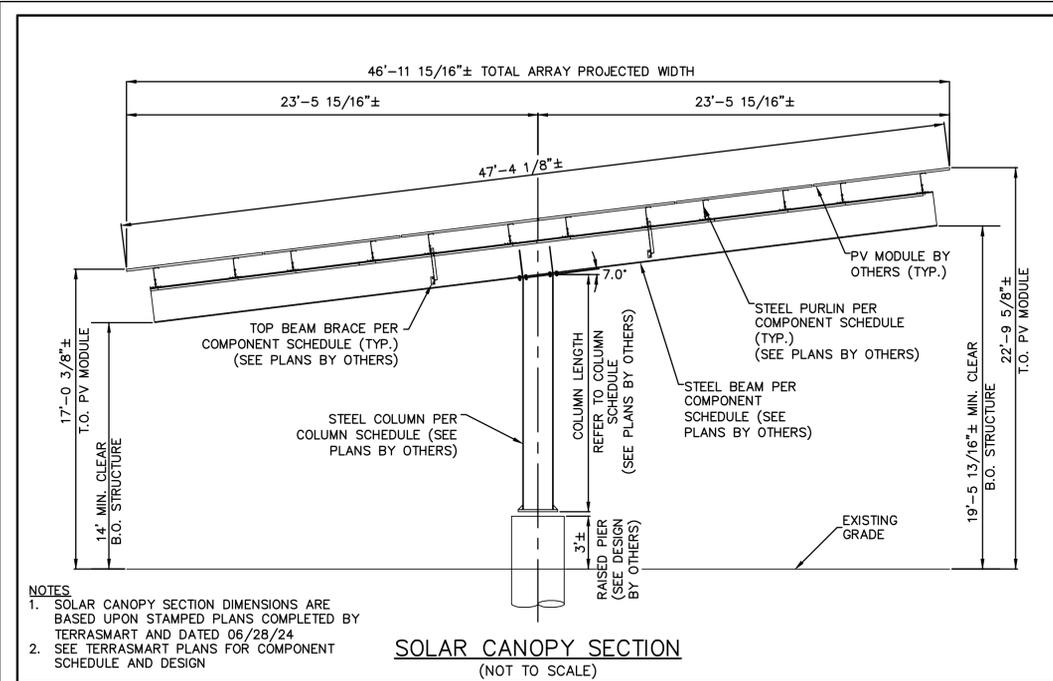
NO.	BY	DATE	REVISION
1	BR	3/25/25	PER BETA COMMENTS

APPLICANT:  
**EMC CORPORATION**  
 176 SOUTH STREET  
 HOPKINTON, MA 01748

SITE DEVELOPMENT PLAN  
 FOR  
**SOLAR CANOPY & GROUND MOUNT PROJECT**  
 DELL CAMPUS - 50 CONSTITUTION BLVD, FRANKLIN, MA  
 FEBRUARY 6, 2025

Sheet	of
5	6
JOB NUMBER	3402.00

FILE: 3402.00-SITE-REV1.DWG



**EROSION CONTROL NOTES:**

- PRIOR TO COMMENCING SITE WORK OR EARTHWORK OPERATIONS, INSTALL EROSION CONTROL BARRIERS AT DOWN GRADIENT LIMITS OF WORK AS SHOWN ON THE SITE PLANS TO BE MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE LOADED AND SEEDED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
- ALL MATERIALS AND STOCKPILES SHALL BE STORED ON LEVEL AREAS OUTSIDE OF ANY FLOOD ZONES, WETLANDS OR BUFFER ZONE AREAS. ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENTATION CONTROL DEVICES AND EROSION CONTROL BARRIERS PER PLANS; SHALL HAVE SIDE SLOPES NO GREATER THAN 3:1 AND SHALL BE SEEDED OR STABILIZED IF LEFT UNDISTURBED FOR TWO WEEKS OR MORE.
- SEDIMENTATION CONTROL DEVICES AND EROSION CONTROL BARRIERS SHALL BE INSPECTED WEEKLY AND MAINTAINED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION AND PROMPTLY AFTER EACH RAINFALL.
- ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTITUTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER AND/OR THE TOWN.
- THE CONTRACTOR MUST REPAIR OR RE-SEED ANY AREAS THAT DO NOT DEVELOP WITHIN A PERIOD OF ONE YEAR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- MATERIAL STOCKPILES SHALL NOT BE LOCATED WITHIN THE PATH OF EXISTING OR PROPOSED WATERCOURSES (BOTH TEMPORARY OR PERMANENT) OR THOSE AREAS SUBJECT TO STORM WATER FLOW.
- SEDIMENT CONTROL DEVICES AND EROSION CONTROL BARRIERS MAY BE REMOVED ONLY AFTER THE SITE HAS BEEN STABILIZED.
- ALL DISTURBED OR EXPOSED AREAS SUBJECT TO EROSION, WHICH REMAIN DISTURBED BUT INACTIVE FOR AT LEAST THIRTY DAYS, SHALL RECEIVE TEMPORARY SEEDING IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES. IN ALL CASES, STABILIZATION MEASURES SHALL BE IMPLEMENTED AS SOON AS POSSIBLE IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES.
- THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES EXTRA SEDIMENTATION CONTROL DEVICES AND EROSION CONTROL BARRIERS FOR INSTALLATION AT THE DIRECTION OF THE ENGINEERS OR THE TOWN TO MITIGATE ANY EMERGENCY CONTROL.
- REFER TO CONSTRUCTION DETAILS FOR ADDITIONAL EROSION CONTROL MEASURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITING, RELOCATION AND AUGMENTATION OF EROSION CONTROL DEVICES AS THE PROJECT PROGRESSES AND THE SITE DRAINAGE CONDITIONS CHANGE.
- THE CONTRACTOR SHALL MINIMIZE THE AREA OF DISTURBED SOIL. EFFORTS SHALL BE MADE TO LIMIT THE TIME OF EXPOSURE OF DISTURBED AREAS. SEE STABILIZATION DEADLINES.

**CONSTRUCTION PERIOD STORMWATER OPERATION AND MAINTENANCE:**

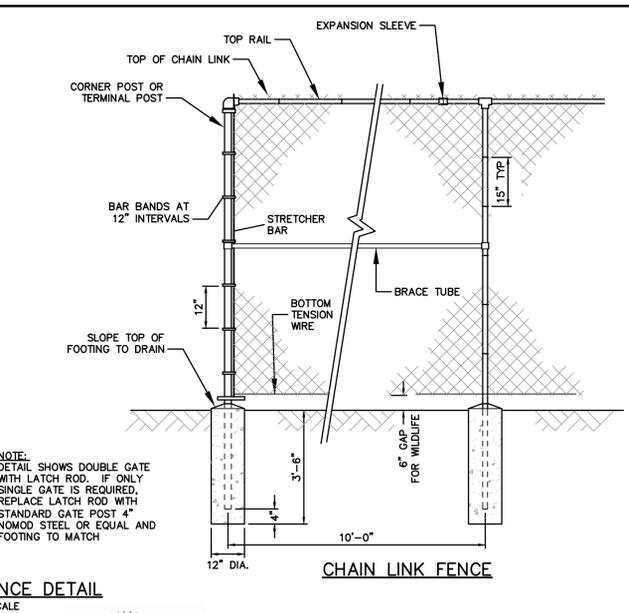
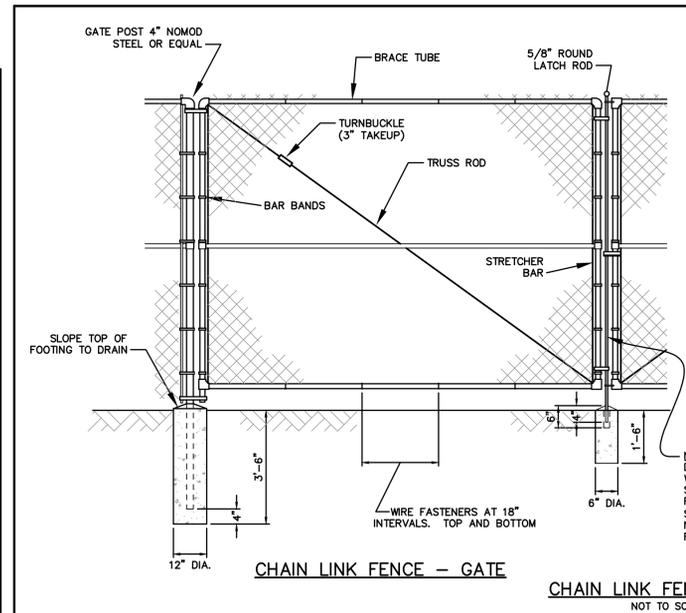
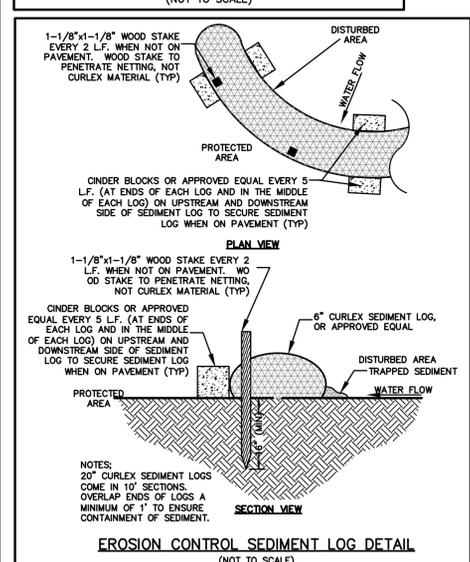
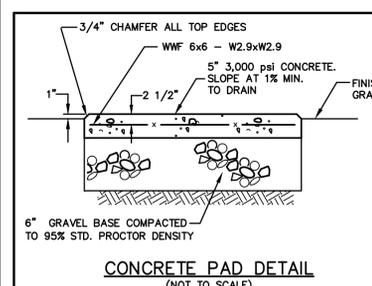
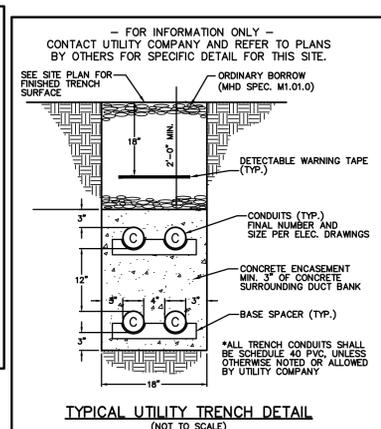
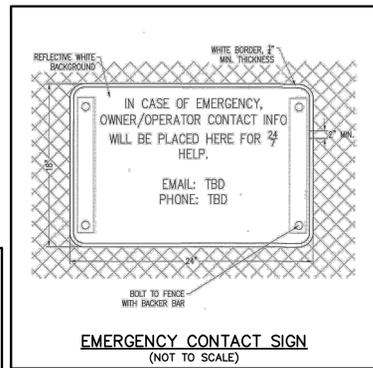
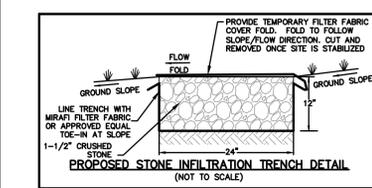
- SCHEDULE:**
- EROSION CONTROL BARRIERS:** EROSION CONTROL BARRIERS (HAY BALES, SILT FENCE, ETC.) SHOULD BE INSPECTED IMMEDIATELY AFTER EACH RUN-OFF PRODUCING RAINFALL EVENT (>0.25 INCHES PER 2022 CDP) AND AT LEAST DAILY DURING PROLONGED RAINFALL. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. SEDIMENT SHOULD BE DISPOSED IN A SUITABLE AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURAL OR VEGETATIVE MEANS.
- CATCH BASIN INLET PROTECTION ("SILT-SACKS"):** ALL CATCH BASINS SHALL BE PROVIDED WITH INLET PROTECTION CONSISTING OF PRE-MANUFACTURED "SILT-SACKS" CATCH BASIN INLET SEDIMENT COLLECTION SYSTEMS UNTIL PAVEMENT BASE COURSE IS IN PLACE AND THE CONTRIBUTING DRAINAGE AREA TO THE INLET IS STABILIZED. INSPECT THE INLET PROTECTION DEVICE WEEKLY AT A MINIMUM, AND AFTER MAJOR STORM EVENTS (>0.25" PER THE CDP) THROUGHOUT CONSTRUCTION. REPAIRS ARE TO BE MADE AS REQUIRED AND SEDIMENT MUST BE REMOVED WHEN THE LEVEL OF DECOMPOSITION REACHES THE REMOVAL DEPTH PER MANUFACTURER SPECIFICATIONS.
- STONE INFILTRATION TRENCH:** INSPECT AFTER EVERY MAJOR STORM EVENT (0.25" PER CDP) DURING CONSTRUCTION. ONCE SITE IS STABILIZED AND RE-VEGETATED, CUT AWAY/REMOVE TEMPORARY COVER FOLD AND INSPECT TO ENSURE PROPER STABILIZATION AND FUNCTION. REMOVE ANY SEDIMENT THAT ACCUMULATED DURING CONSTRUCTION.
- NOTES:**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSPECTION AND MAINTENANCE OF ALL STORMWATER AND EROSION CONTROL FACILITIES UNTIL THE PROJECT CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL CLEAN ALL COMPONENTS OF THE STORMWATER MANAGEMENT SYSTEM AT THE COMPLETION OF CONSTRUCTION, IMMEDIATELY PRIOR TO TURNING OVER OPERATION AND MAINTENANCE RESPONSIBILITY TO THE PROJECT PROPONENT.
  - UPON COMPLETION OF CONSTRUCTION, THE OPERATION AND MAINTENANCE OF ALL COMPONENTS OF THE STORMWATER MANAGEMENT SYSTEM WILL BE THE RESPONSIBILITY OF THE SYSTEM OWNER.
  - DISPOSAL OF ACCUMULATED SEDIMENT AND HYDROCARBONS TO BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES AND REGULATIONS.
  - THERE SHALL BE NO ILLEGAL DISCHARGE OF ANY WASTE OR WASTE WATER INTO THE STORMWATER MANAGEMENT SYSTEM. THE MAINTENANCE OF THE FACILITY SHALL BE UNDERTAKEN IN SUCH A MANNER AS TO PREVENT ANY DISCHARGE OF WASTE OR WASTE WATER INTO STORMWATER MANAGEMENT SYSTEM. ANY WASTE OIL OR OTHER WASTE PRODUCTS GENERATED DURING MAINTENANCE SHALL BE PROPERLY DISPOSED OF OFF SITE.
- EMC CORPORATION  
176 SOUTH STREET  
HOPKINTON, MA 01748

**CONSTRUCTION NOTES:**

- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS SHOWN AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT MAY BE FOUND IN THE PLAN.
- CONTRACTOR SHALL VERIFY ALL CRITICAL ELEVATIONS AND INVERTS PRIOR TO CONSTRUCTION.
- WHERE AN EXISTING PUBLIC UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED AND THE INFORMATION FURNISHED TO THE UTILITY COMPANY AND OWNER FOR RESOLUTION OF THE CONFLICT.
- SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS SITE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY DISAISE, THE TOWN OF FRANKLIN DEPARTMENT OF PUBLIC WORKS AND ALL UTILITY COMPANIES A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION ACTIVITIES FOR LOCATION OF ALL UNDERGROUND UTILITIES AND UTILITY COMPANY APPROVALS. SUGGEST A PRIVATE UTILITY LOCATION SURVEY BE PERFORMED.
- ALL BULKHEADS, SURFACE, AND SUBSURFACE IMPROVEMENTS ON AREAS ADJACENT TO THE SITE ARE NOT NECESSARILY SHOWN HEREON.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND RISE AND INVERTS BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENTS OF ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES WITH THE UTILITY COMPANY, IF NECESSARY. IF ANY INTERRUPTIONS IN SERVICE ARE NECESSARY TO ADJUSTING PROPERTY OWNERS, A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN.
- THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND MASSACHUSETTS HIGHWAY DEPARTMENT REQUIREMENTS FOR ALL WORK WITHIN PUBLIC STREETS.
- CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES, INCLUDING WATER TRUCKS THROUGHOUT CONSTRUCTION UNTIL PAVING IS COMPLETED AND ALL SURFACES ARE STABILIZED. DUST CONTROL ADDITIVES SUCH AS CALCIUM CHLORIDE OR SODIUM CHLORIDE SHALL BE USED ONLY WITH PERMISSION FROM THE TOWN.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL REQUIRED INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY COMPANIES ARE COMPLETED PRIOR TO INSTALLATION, BACKFILLING, ANNOUNCED BUILDING POSSESSION, AND THE FINAL CONNECTION OF SERVICES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SURVEY CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE PROPOSED WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE RECORDS OF THE LOCATION AND ELEVATION OF ALL WORK INSTALLED.
- THE CONTRACTOR SHALL INSTITUTE AND MAINTAIN ALL SAFETY MEASURES NECESSARY TO PROTECT THE PUBLIC DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO BARRICADES, SIGNS, FLAGS, FLASERS, LIGHTING, POLICE DETAIL AND ANY OTHER MEANS AS DIRECTED BY THE TOWN. NO TRENCHES ARE TO REMAIN OPEN OVERNIGHT.
- THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL AND OTHER DEBRIS RESULTING FROM THE WORK. AT THE END OF CONSTRUCTION THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SUPPLIES MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED FROM THE SITE.
- ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPROVED PERMITS AND WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES AND REGULATIONS.
- CONTRACTOR TO DESIGNATE A SPECIFIC AREA FOR COMBUSTIBLE MATERIALS, APPROVED BY THE FIRE DEPARTMENT, SO THAT COMBUSTIBLES ARE NOT SPREAD THROUGHOUT THE CONSTRUCTION SITE.
- EXISTING TOP SOIL IS TO BE RETAINED, STOCKPILED AND SCREENED FOR RE-USE.

**DUST CONTROL NOTES:**

- THE CONTRACTOR SHALL TAKE STEPS TO MINIMIZE THE AMOUNT OF DUST GENERATED ON THE SITE AND ENSURE THE SITE IS IN COMPLIANCE WITH THE DEP AIR POLLUTION CONTROL REGULATIONS 310 CMR 7.09.
- DUST CONTROL MEASURES SHOULD BE IMPLEMENTED AS NEEDED DURING ALL SOIL DISTURBANCE ACTIVITIES AND PARTICULARLY DURING WINDY CONDITIONS.
- WATER SHALL BE APPLIED UNTIL THE SURFACE IS WET AND REPEAT AS NEEDED. WATER SHALL BE APPLIED AT RATES SO THAT RUNOFF, CHANNELING, OR EROSION DOES NOT OCCUR.
- OTHER POTENTIAL WETTING AND/OR DUST CONTROL AGENTS MAY BE PROPOSED FOR USE BY THE CONTRACTOR AND MUST BE APPROVED BY THE TOWN PRIOR TO USE ON SITE.
- WHEEL AND TRUCK WASHES SHALL BE USED AT SITE EGRESS AS NEEDED.
- ALL TRUCKS LEAVING THE SITE WHICH HAVE BEEN LOADED WITH SOIL OR DUST-PRODUCING MATERIAL SHALL BE TARPED IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- ALL PAVED SURFACES AND ROADWAYS (WITHIN 500 FEET OF THE SITE) ON WHICH EQUIPMENT AND TRUCK TRAFFIC ENTER AND LEAVE THE CONSTRUCTION AREA SHALL BE SWEEP AND/OR WATERED AS NEEDED.
- WIND SCREENS, WIND FENCES, SILT FENCE OR SIMILAR BARRIERS SHALL BE IMPLEMENTED AS NEEDED AND PLACED AT INTERVALS OF ABOUT 10 TO 15 TIMES THE BARRIER HEIGHT.
- ALL CLEARING, GRADING, EARTHMOVING, AND EXCAVATING ACTIVITIES SHALL BE SUSPENDED DURING PERIODS OF SUSTAINED STRONG WINDS (HOURLY AVERAGE WIND SPEEDS OF 25 MPH OR GREATER).



**NOTES:**

- INSTALL SILTSACK PER MANUFACTURER SPECIFICATIONS IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK AND IN PAVED AREAS AFTER BINDER COURSE IS PLACED.
- GRATE TO BE PLACED OVER SILTSACK.
- SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.

