

SITE DEVELOPMENT PLANS

FOR

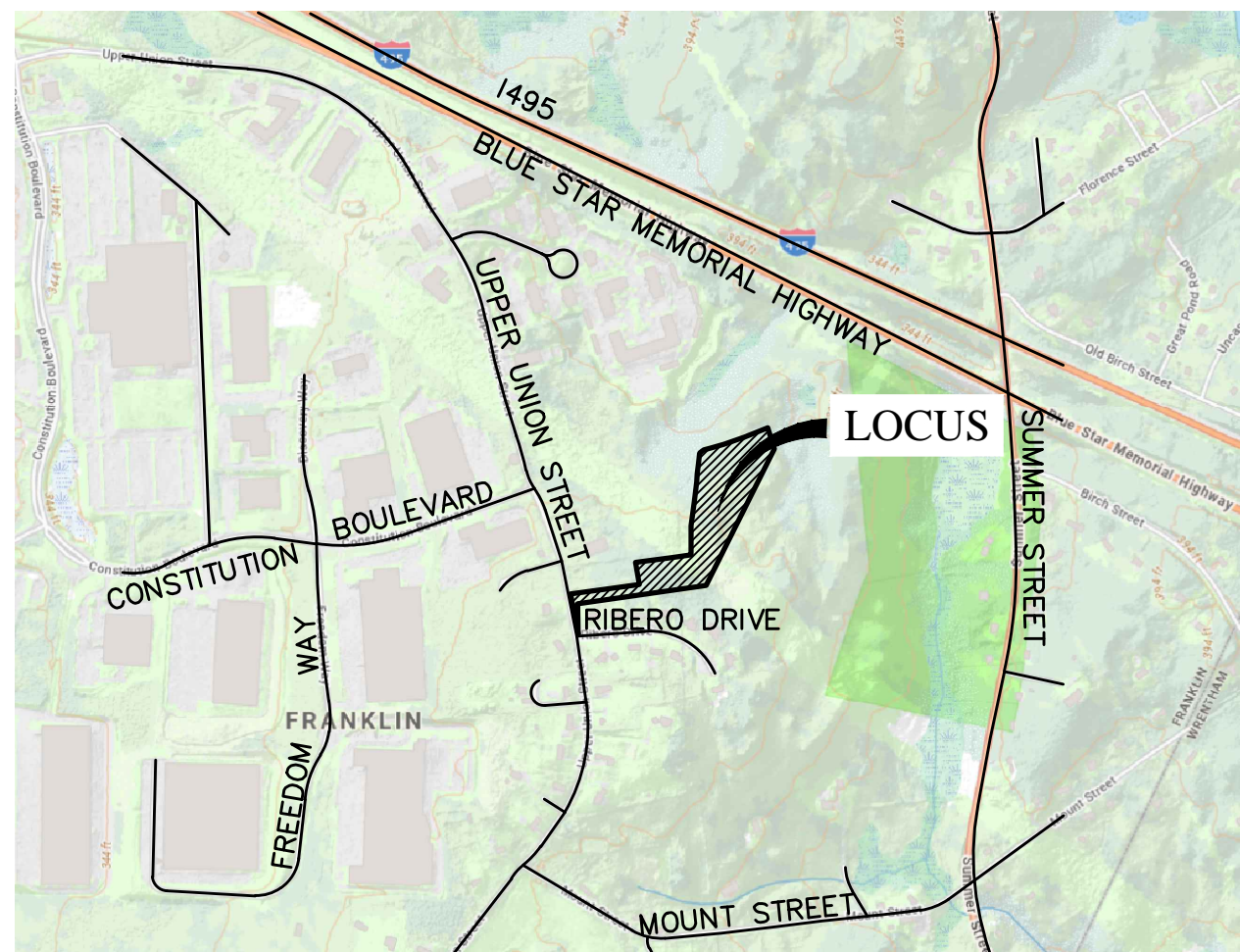
UPPER UNION SOLAR PROJECT

FRANKLIN, MASSACHUSETTS 02038

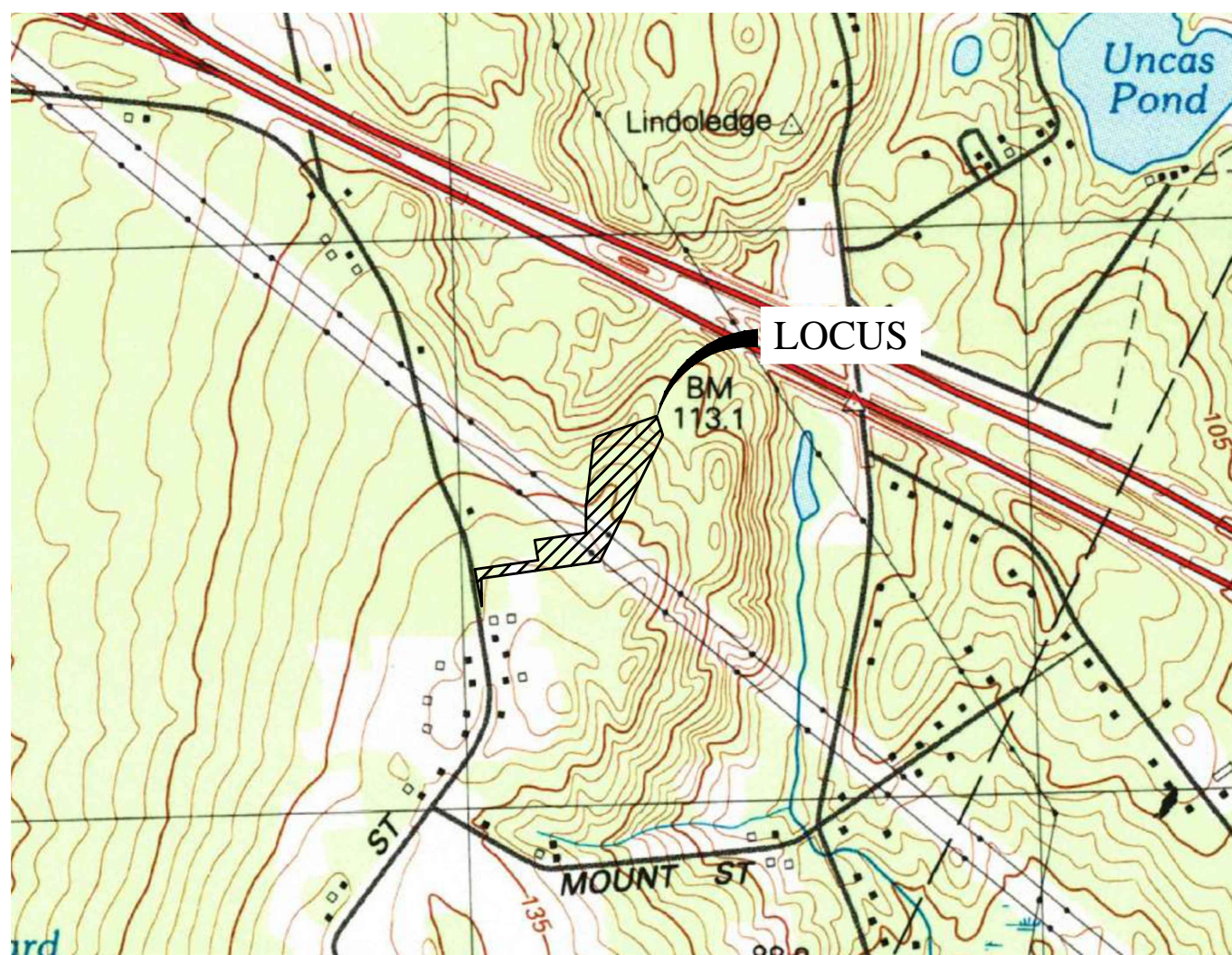
DATE: JUNE 19, 2023

REVISION DATE: NOVEMBER 10, 2023

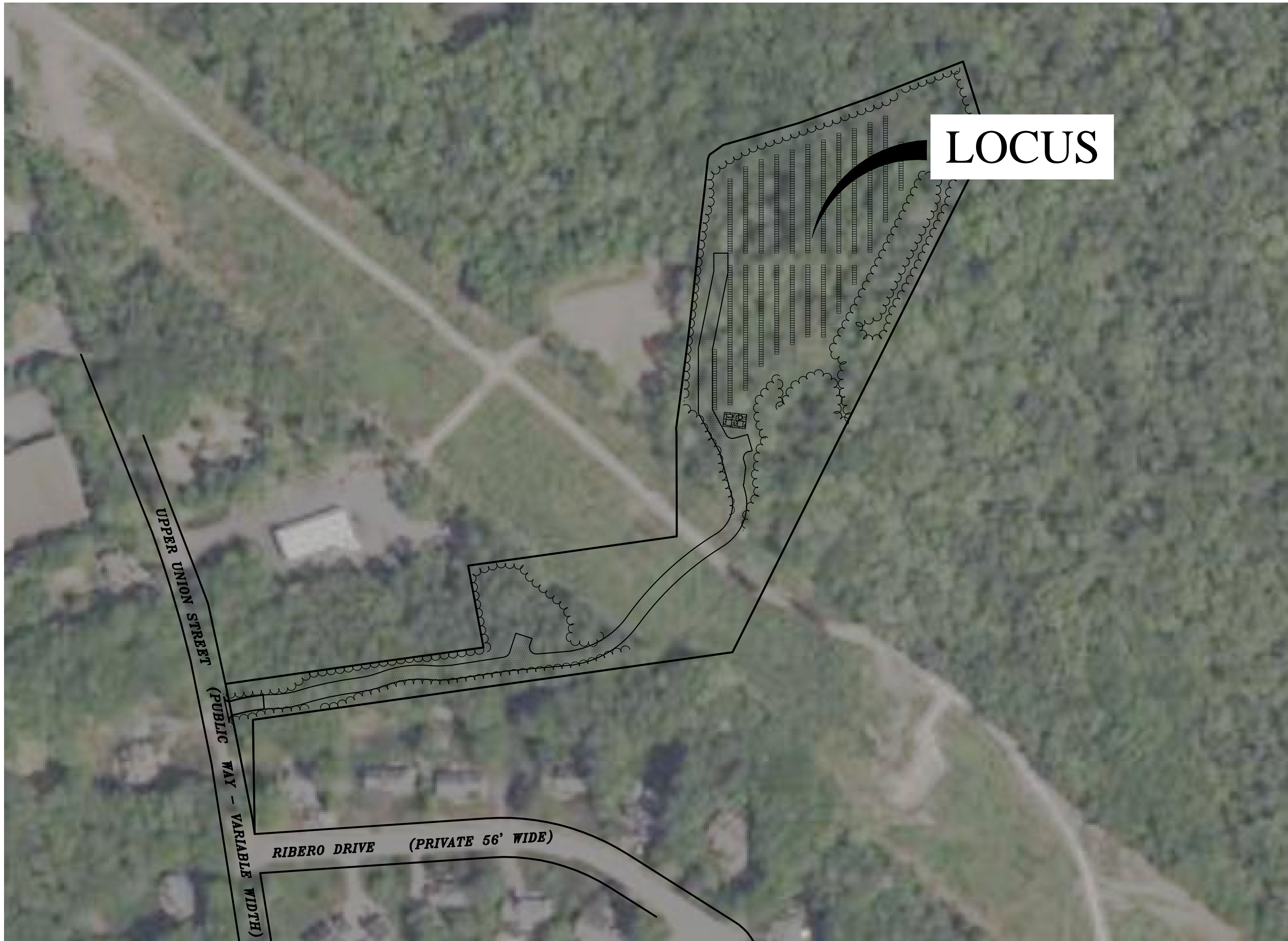
REVISION DATE: DECEMBER 13, 2023



VICINITY MAP
1" = 1,000'



LOCUS MAP
1" = 1,000'



OVERALL LOCATION PLAN
SCALE: 1" = 100'

| INDEX OF PLANS | | |
|----------------|----------------------------------|-----------|
| SHEET NO. | TITLE | SCALE |
| 1 | COVER SHEET | 1" = 100' |
| 2 | OVERALL EXISTING CONDITIONS PLAN | 1" = 60' |
| 3 | EXISTING CONDITIONS PLAN | 1" = 30' |
| 4 | EXISTING CONDITIONS PLAN | 1" = 30' |
| 5 | OVERALL SITE DEVELOPMENT PLAN | 1" = 60' |
| 6 | SITE DEVELOPMENT PLAN | 1" = 30' |
| 7 | SITE DEVELOPMENT PLAN | 1" = 30' |
| 8 | DETAILS PLAN | N.T.S. |
| 9 | DETAILS PLAN | N.T.S. |
| 10 | DETAILS PLAN | N.T.S. |

OWNER:
JOHN C. COLELLA SR.
0 UPPER UNION STREET
FRANKLIN MA, 02038

APPLICANT:
VS UNION SOLAR SMART, LLC
24942 DANA POINT HARBOR
DANA POINT, CA 92629

ENGINEER:

DESIGN ENGINEERS, INC.
P.O. Box 1051, Sandwich, MA 02563
PHONE NUMBER: (508) 888-9282

MASS STATE PLAN 883

LEGEND

EXISTING BENCHMARK

EXISTING SURVEY MONUMENTS

EXISTING UTILITY POLE

EXISTING GUY WIRE

EXISTING SEWER MANHOLE

EXISTING DRAINAGE MANHOLE

EXISTING CATCH BASIN

EXISTING DOUBLE CATCH BASIN

EXISTING WATER GATE

EXISTING GAS GATE

EXISTING OVERHEAD WIRES

EXISTING SEWER LINE

EXISTING DRAINAGE LINE

EXISTING DECIDUOUS TREE

EXISTING CONIFEROUS TREE

EXISTING TREE LINE

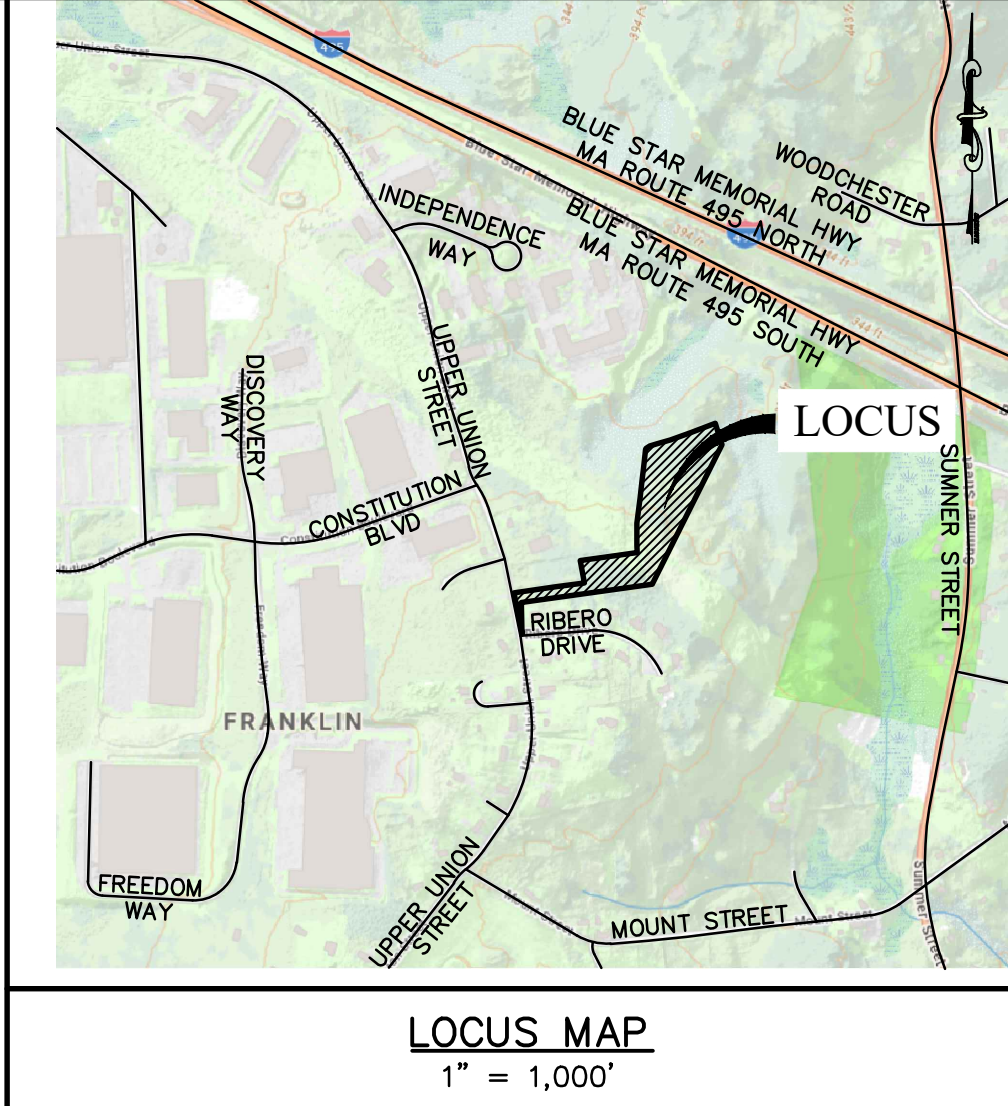
EXISTING STONEWALL

EXISTING EDGE OF PAVEMENT

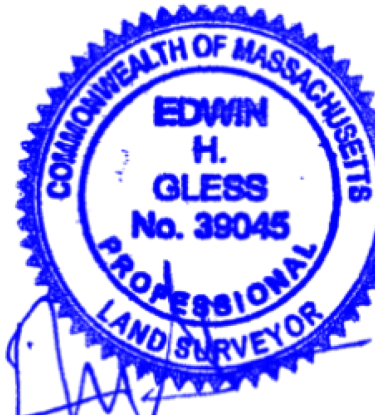
EXISTING STOCKADE FENCE LINE

EXISTING MONITORING WELL

TEST PIT LOCATION AND ELEVATION



- GENERAL NOTES:**
- RECORD OWNER(S) PER NORFOLK COUNTY REGISTRY OF DEEDS BOOK 31678 PAGE 107:
MAP 319, PARCEL 009 (0 UPPER UNION STREET)
JOHN C. COLELLA JR.
FRANKLIN, MA 02038
AREA = ±6.21 ACRES
 - THE SUBJECT PROPERTY IS SHOWN AS PARCEL 009 ON THE TOWN OF FRANKLIN ASSESSOR'S MAP 319. TOTAL LAND AREA IS ±6.21 ACRES.
 - THE PROPERTY LIES WITHIN A INDUSTRIAL ZONING DISTRICT BASED UPON A REVIEW OF THE TOWN OF FRANKLIN ZONING MAP AND PROPERTY CARDS.
 - THE LOCUS PROPERTY LINES SHOWN HEREON, ARE COMPILED FROM THE RECORD PLAN (PARCEL A—PLAN NUMBER 624 OF 1995 IN PLAN BOOK 433) AND DEED (BOOK 31678 PAGE 107) AND ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND ARE BASED UPON A FIELD SURVEY BY ATLANTIC DESIGN ENGINEERS, INC.
 - THE PROPERTY LIES WITHIN FLOOD ZONE X, AN AREA OF MINIMAL FLOODING, BASED UPON A REVIEW OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBER 25021C0317E, EFFECTIVE DATE JULY 17, 2012.
 - THE LOCUS DOES NOT LIE WITHIN A ZONE II BASED UPON REVIEW OF THE MASSACHUSETTS GEOGRAPHIC INFORMATION SYSTEM AND THE TOWN OF FRANKLIN GEOGRAPHIC INFORMATION SYSTEM.
 - THE LOCUS DOES NOT LIE WITHIN THE WATER RESERVE OVERLAY DISTRICT BASED UPON REVIEW OF THE TOWN OF FRANKLIN GEOGRAPHIC INFORMATION SYSTEM AND WATER RESERVE DISTRICT MAPS.
 - THE SITE IS NOT LOCATED WITHIN AN ESTIMATED HABITAT OF RARE WILDLIFE OR A PRIORITY HABITAT OF RARE SPECIES BASED UPON A REVIEW OF THE NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM MAPS OBSERVED ON THE MASSACHUSETTS GEOGRAPHIC INFORMATION SYSTEM.
 - THE PROPERTY DOES NOT LIE WITHIN AN AREA OF CRITICAL ENVIRONMENTAL CONCERN (ACEC) BASED UPON A REVIEW OF THE MASSACHUSETTS GEOGRAPHIC INFORMATION SYSTEM.
 - THE EXISTING CONDITIONS SHOWN HEREON ARE BASED UPON A FIELD SURVEY BY ATLANTIC DESIGN ENGINEERS, INC. IN APRIL AND JUNE OF 2023 AND SUPPLEMENTED BY INFORMATION OBTAINED BY THE MASSACHUSETTS GEOGRAPHIC INFORMATION SYSTEM, THE TOWN OF FRANKLIN GEOGRAPHIC INFORMATION SYSTEM, AND INFORMATION OBTAINED FROM PUBLIC RECORDS.
 - THE WETLAND RESOURCE AREAS SHOWN HEREON ARE BASED UPON WETLAND DELINEATIONS COMPLETED BY GODDARD CONSULTING LLC IN APRIL AND SEPTEMBER 2023. WETLAND FLAGS WERE GPS LOCATED BY ATLANTIC DESIGN ENGINEERS ON APRIL 19, 2023 AND OCTOBER 2, 2023.



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

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

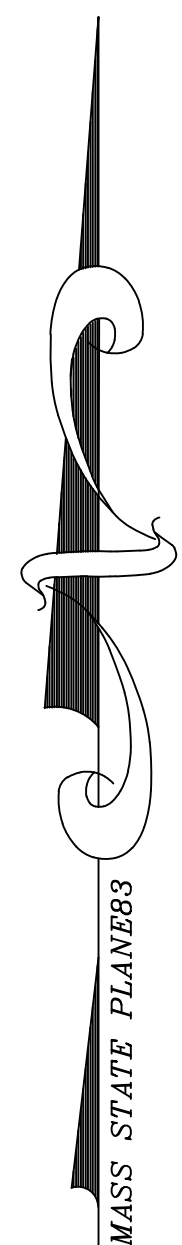
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| DATE | | | |
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| 1 | BJR | 11/10/23 | PEER REVIEW/TOWN COMMENTS |
| NO. | BY | DATE | REVISION |

PREPARED FOR:
VS UNION SOLAR SMART,LLC
24941 DANA POINT HARBOR
DANA POINT, CA 92629

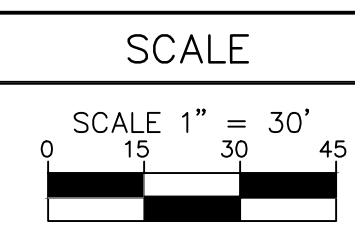
OVERALL EXISTING CONDITIONS PLAN
FOR
UPPER UNION SOLAR PROJECT
FRANKLIN, MA
JUNE 19, 2023

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| JOB NUMBER | |
| 3328.00 | |



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P.O. Box 1051, Sandwich, MA 02563 (508) 888 - 9282

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 Approved by : _____



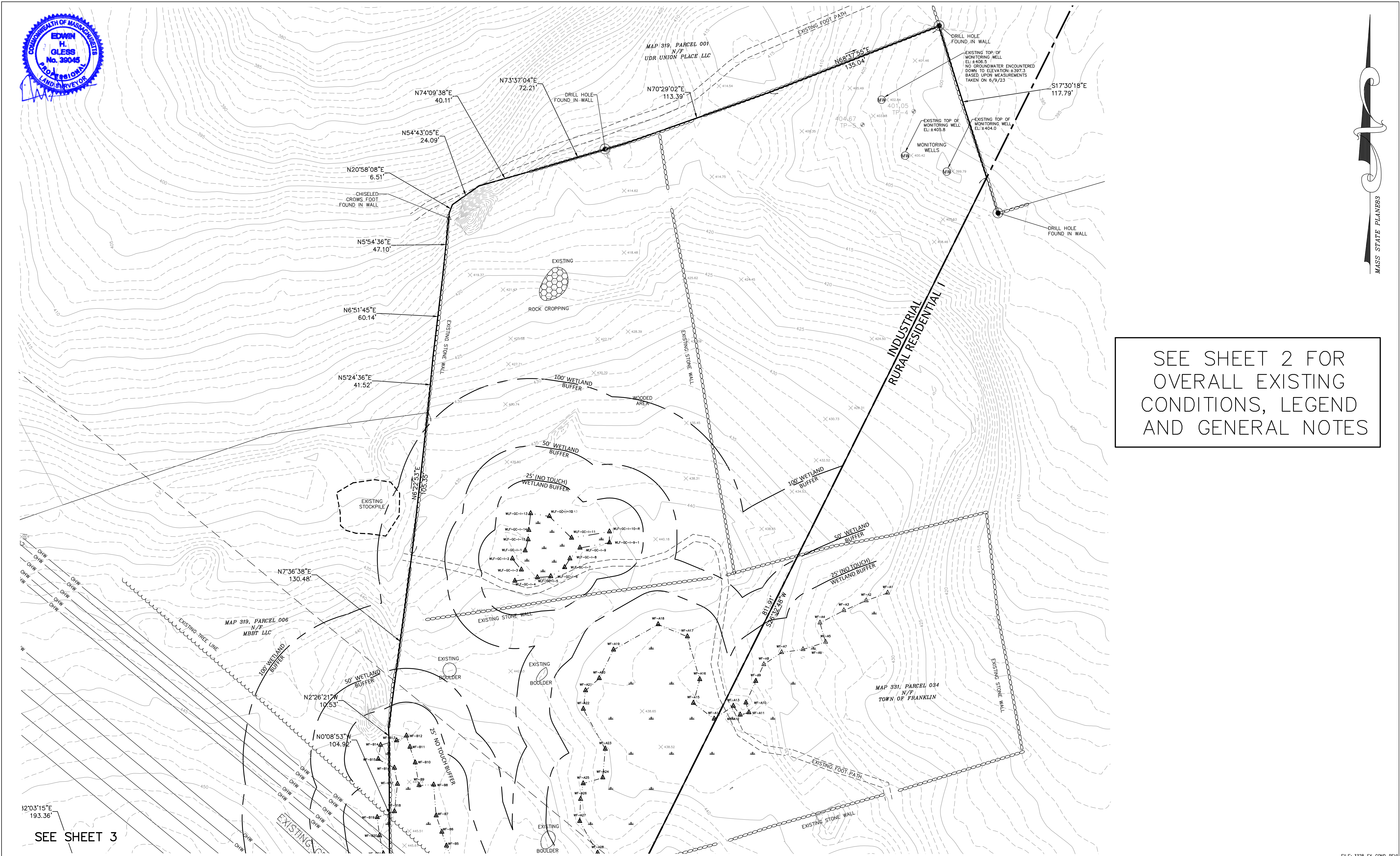
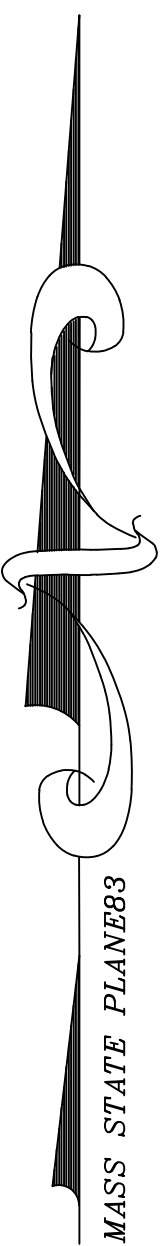
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VS UNION SOLAR SMART, LLC
24941 DANA POINT HARBOR
DANA POINT, CA 92629

EXISTING CONDITIONS PLAN
FOR
UPPER UNION SOLAR PROJECT
FRANKLIN, MA
JUNE 19, 2023

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| FILE: 3328-EX-COND-REV | |
| Sheet 3 | of 10 |
| JOB NUMBER 3328.00 | |



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Survey chg. by :
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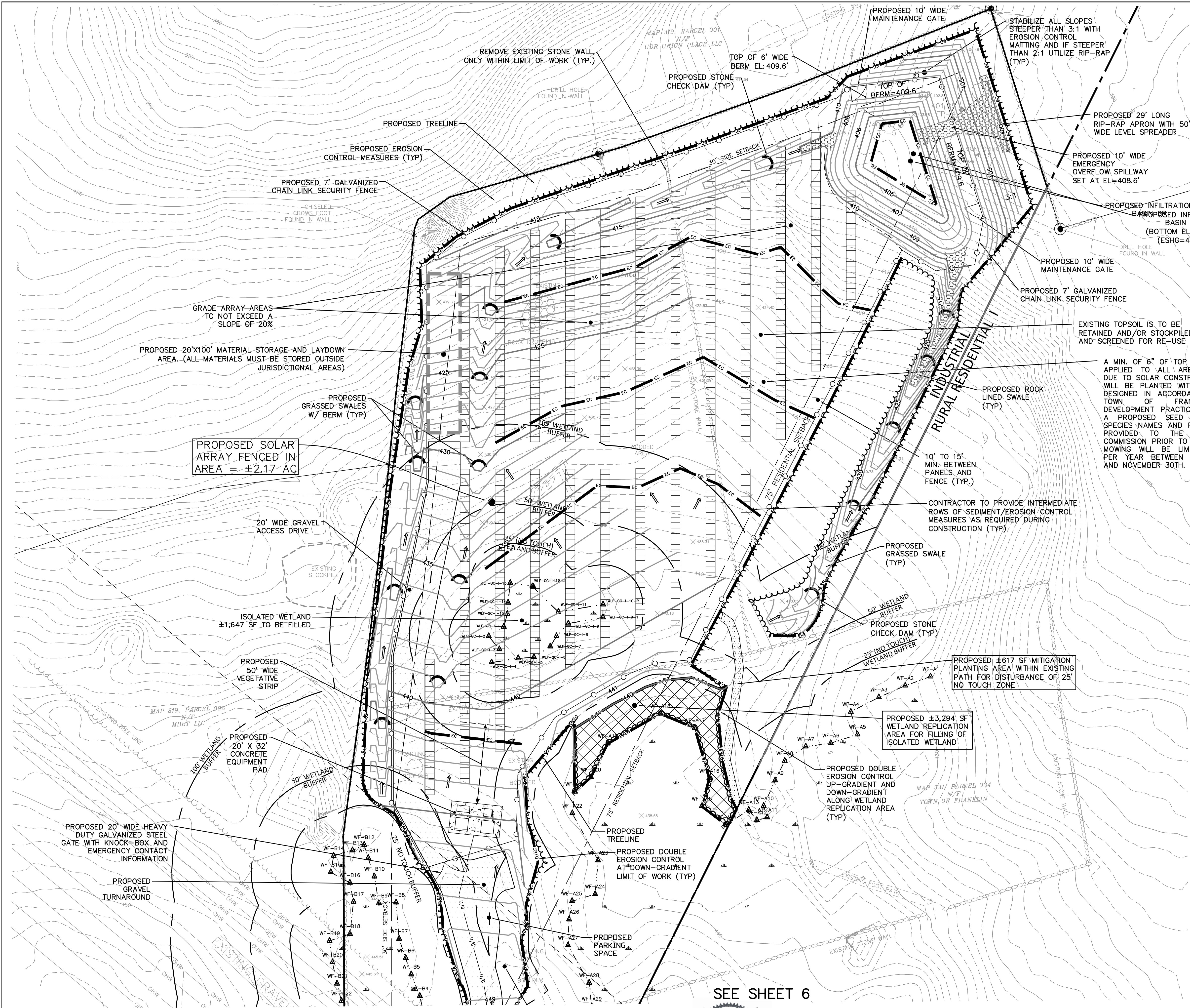
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| 1 | BJR | 11/10/23 | PEER REVIEW/TOWN COMMENTS |

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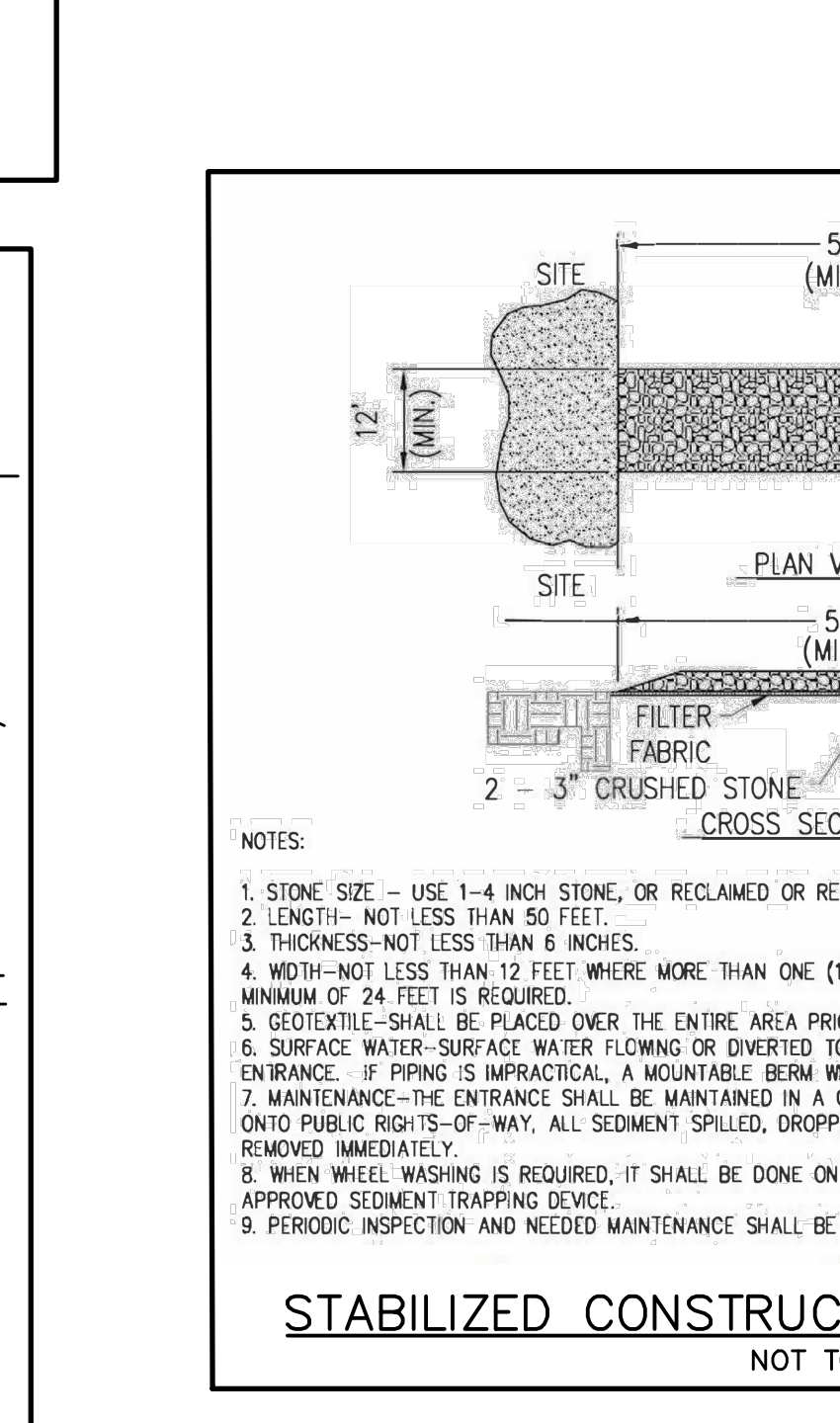
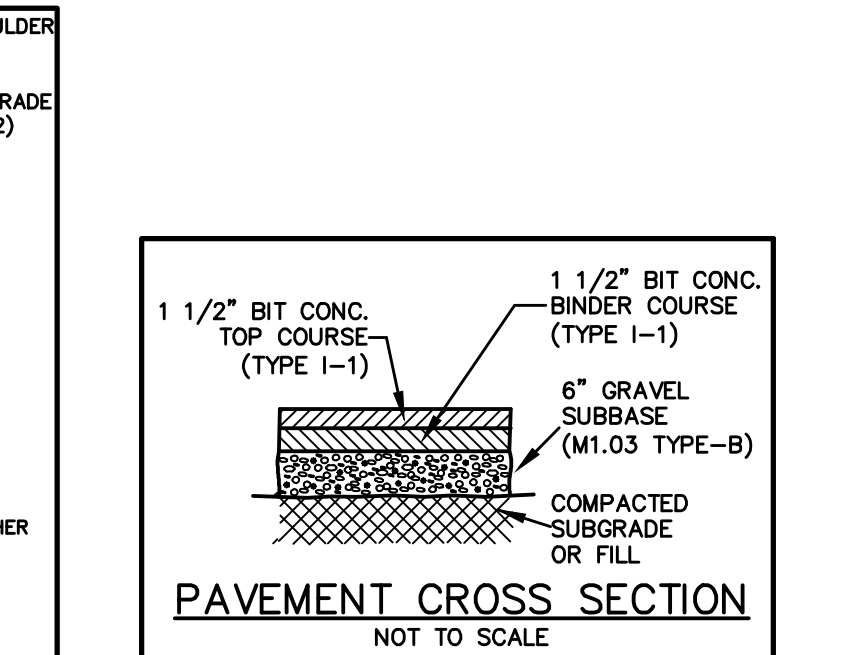
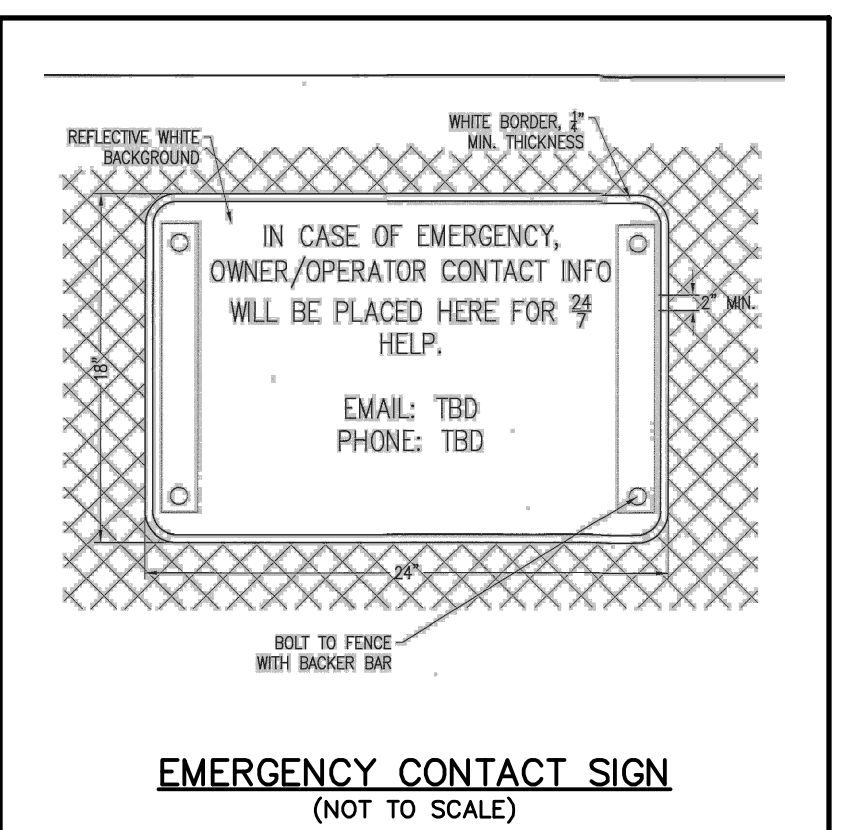
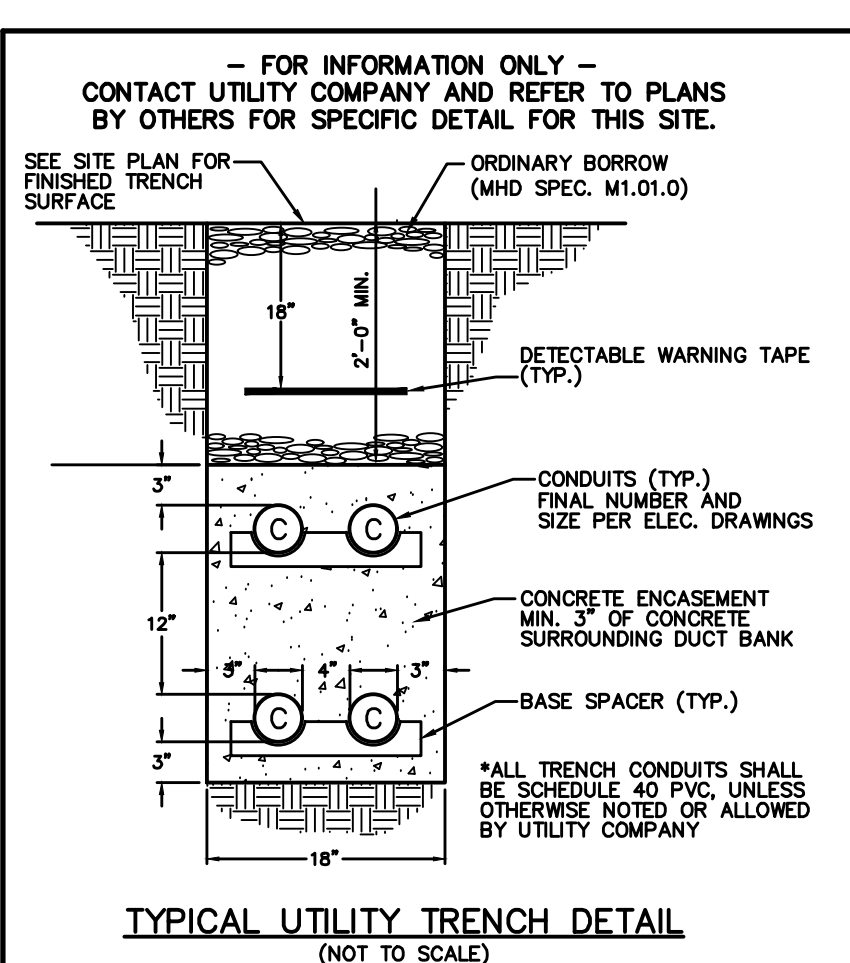
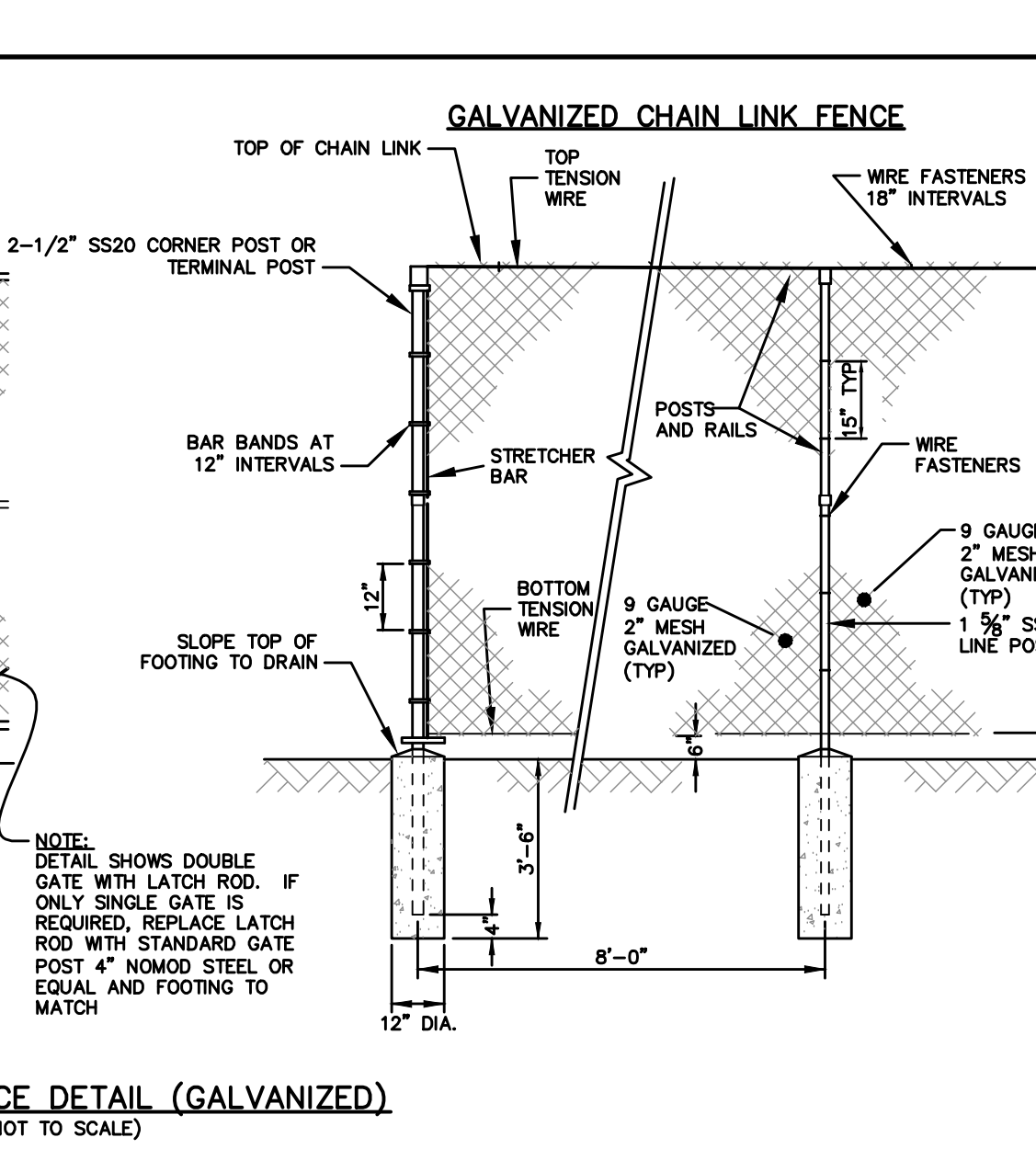
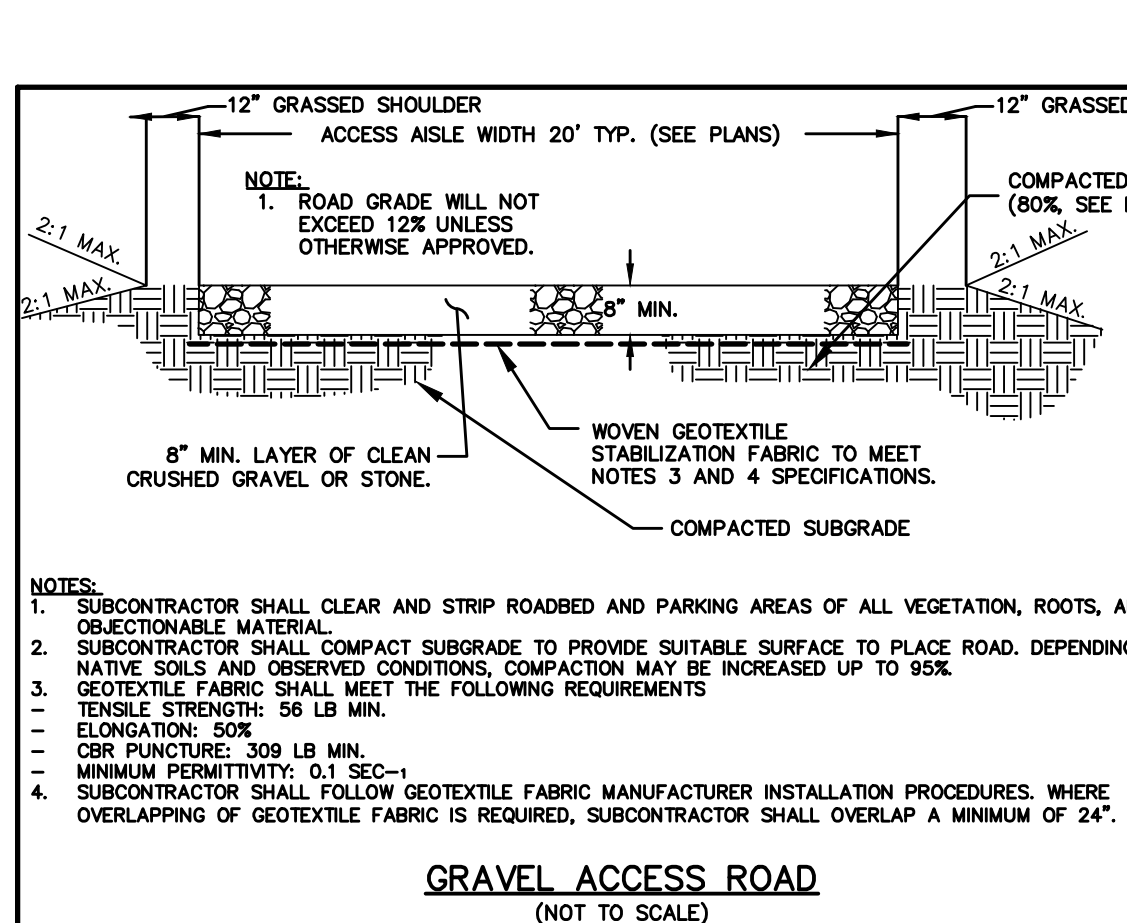
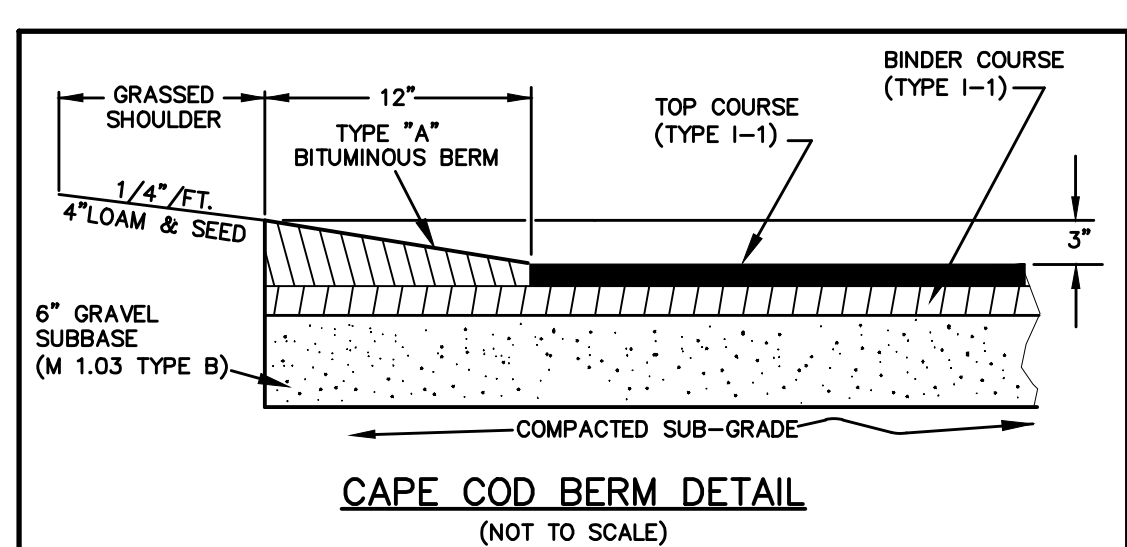
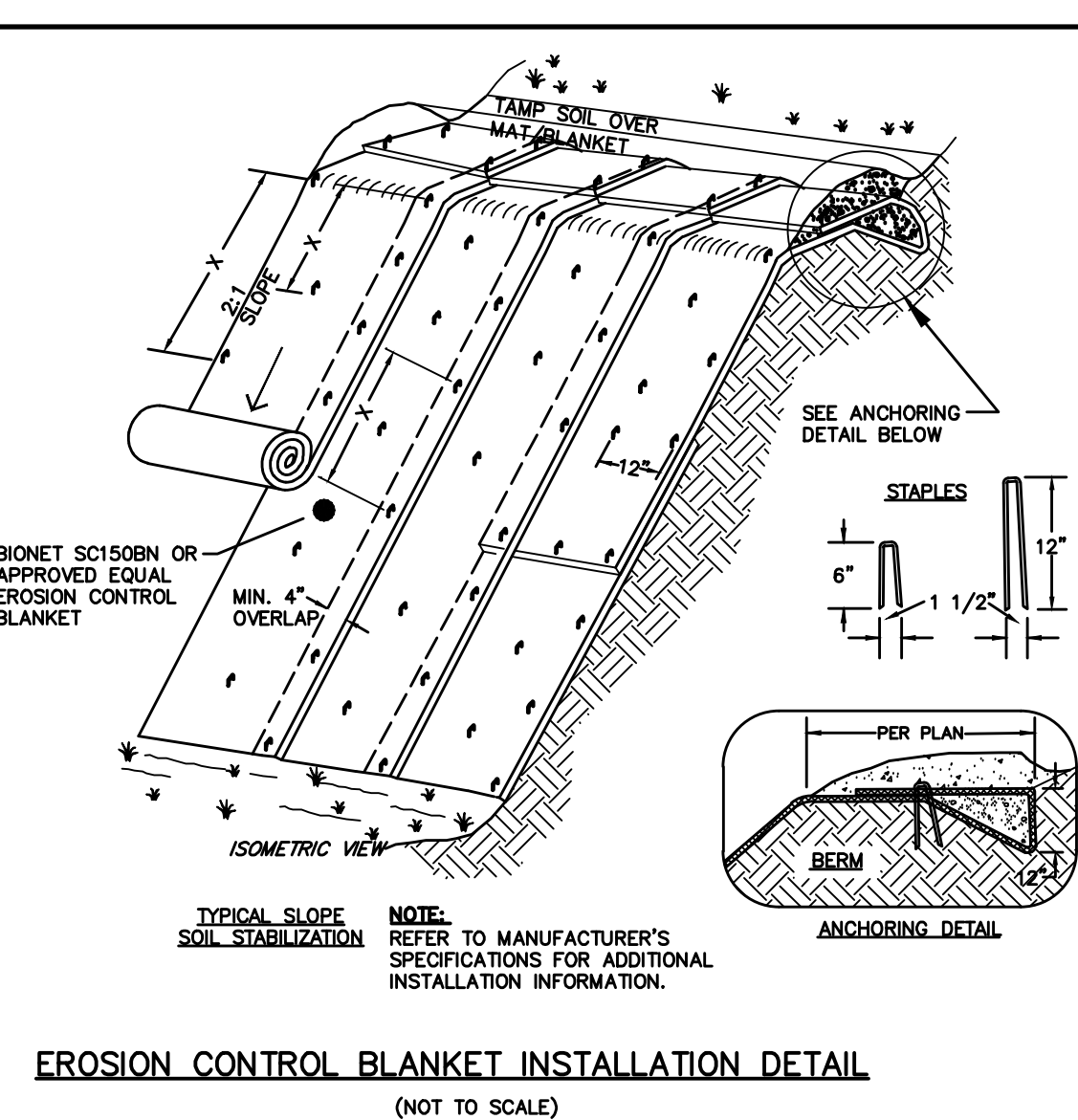
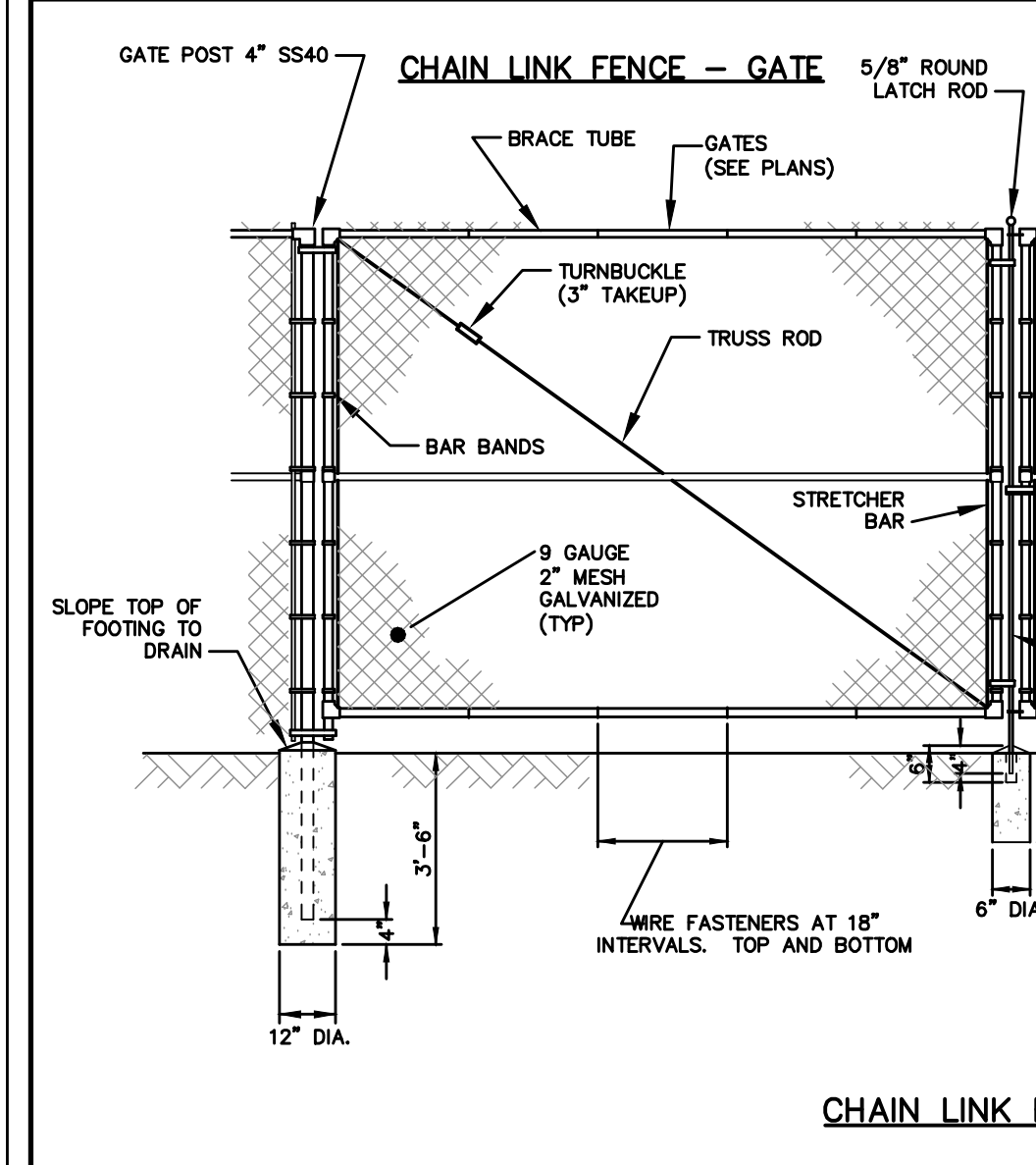
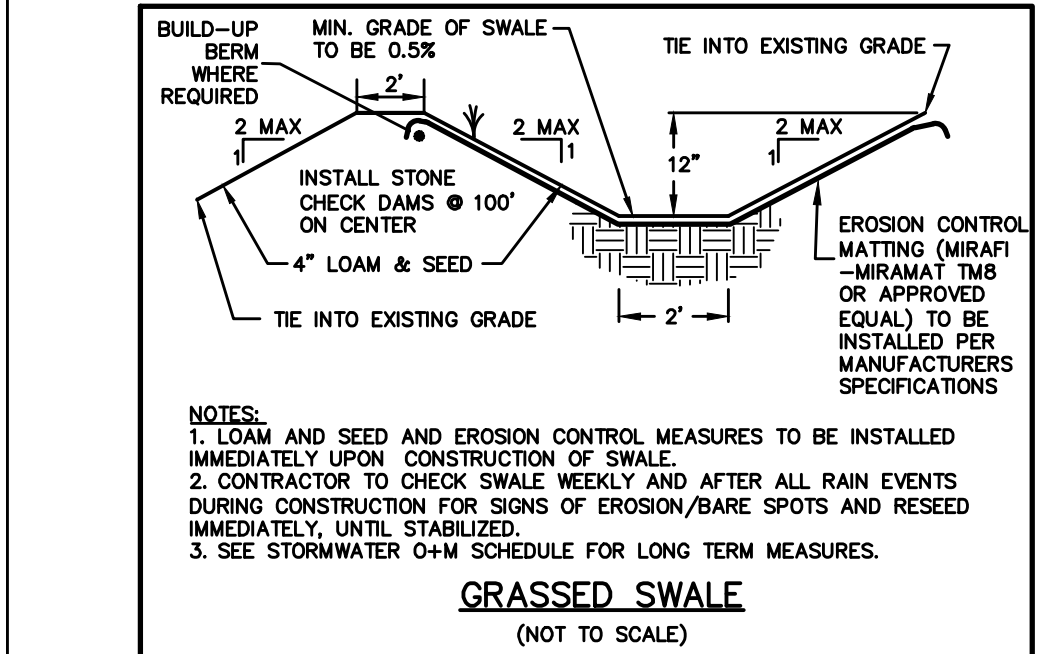
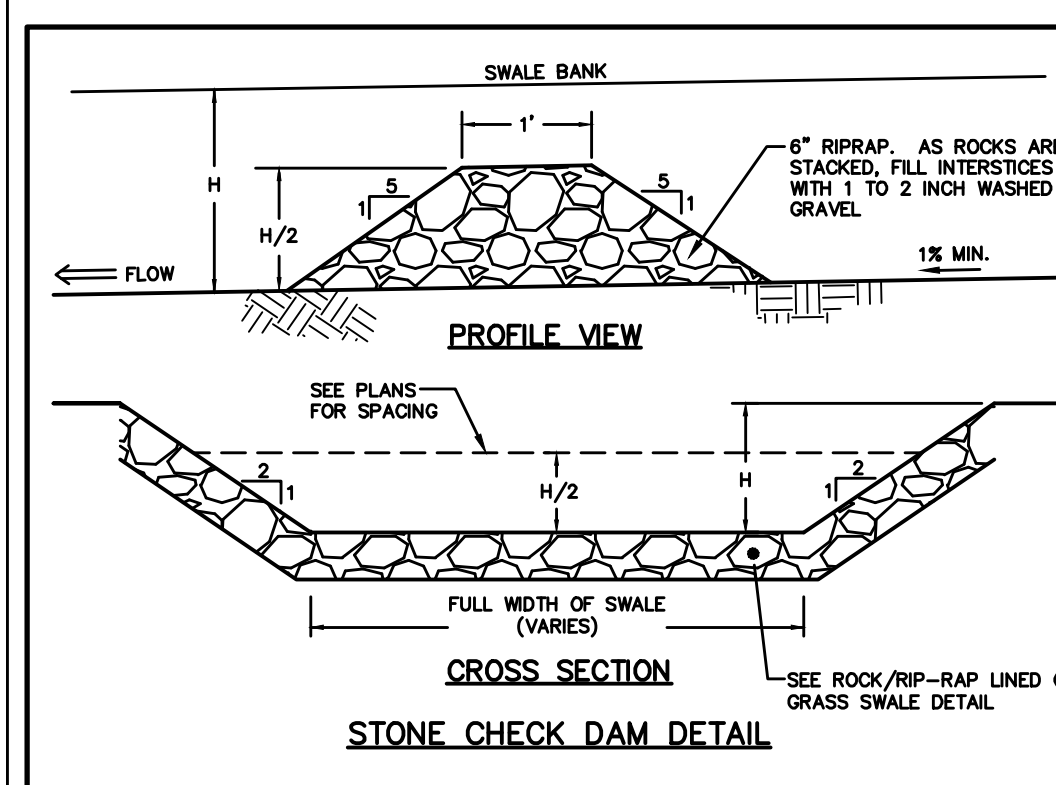
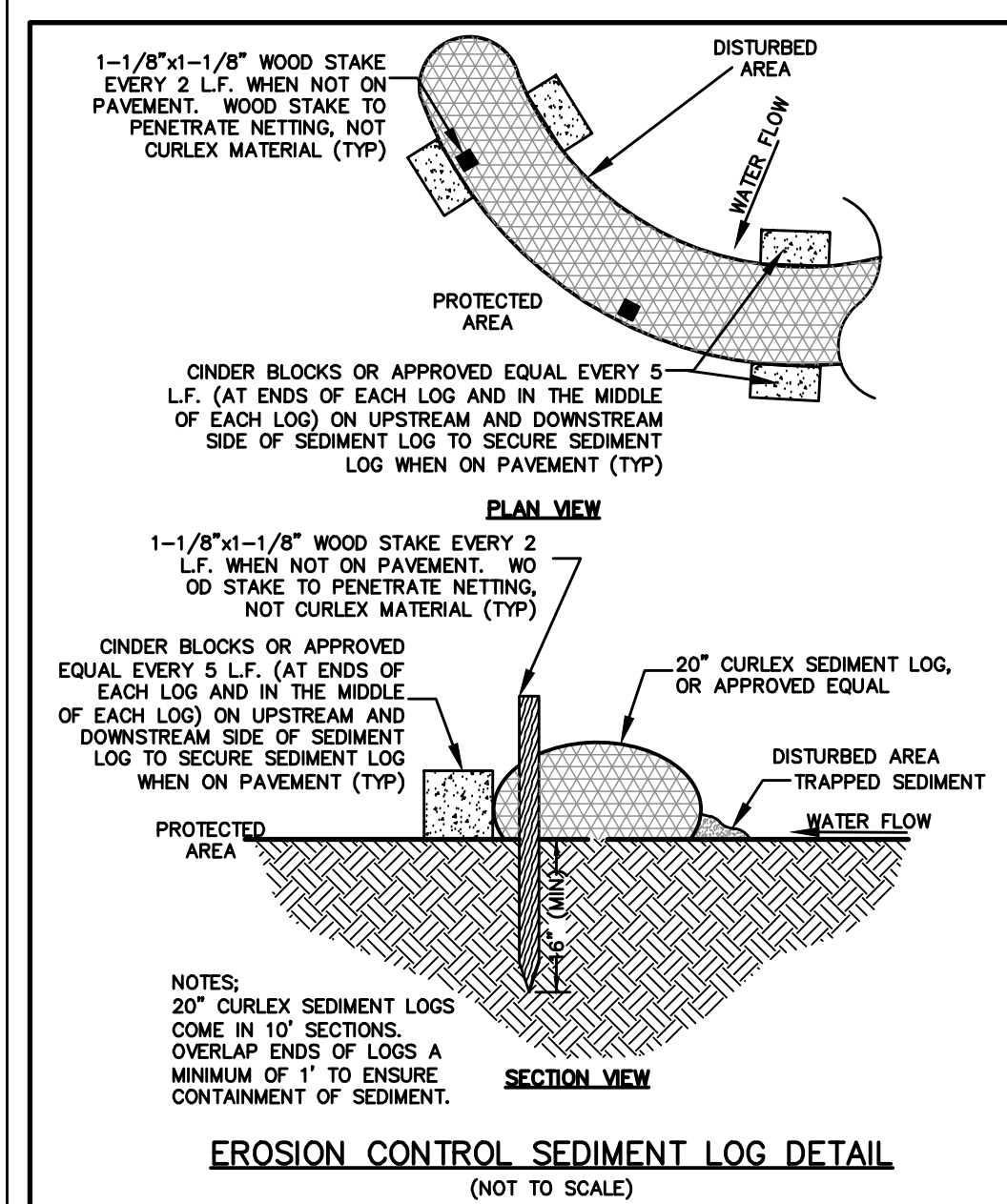
EXISTING CONDITIONS PLAN
FOR
UPPER UNION SOLAR PROJECT
FRANKLIN, MA
JUNE 19, 2023

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| RESOURCE AREA IMPACT SUMMARY | | |
|------------------------------|--|------------------------------------|
| RESOURCE AREA | ALTERATION PROPOSED | MITIGATION PROPOSED |
| ISOLATED WETLAND | ±1,647 SF | ±3,294 SF WETLAND REPLICATION AREA |
| BUFFER ZONE | 0-25': ±773 SF 25-100': ±55,963 SF TOTAL: ±56,736 SF | ±617 SF MITIGATION PLANTING AREA |

SEE SHEET 5 FOR LEGEND
AND SEE SHEET 8 FOR
CONSTRUCTION NOTES



EROSION CONTROL NOTES:

1. PRIOR TO COMMENCING SITE WORK OR EARTHWORK OPERATIONS, INSTALL EROSION CONTROL BARRIERS AT DOWN GRADIENT LIMITS OF WORK AND AT INTERIM LOCATIONS WITHIN ARRAY AS SHOWN ON THE SITE PLANS TO BE MAINTAINED THROUGHOUT CONSTRUCTION.
2. ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
3. 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.
4. 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.
5. ANY SLOPE STEEPER AND 3:1 SHALL BE EQUIPPED WITH SLOPE STABILIZATION FABRIC OR EROSION CONTROL MATTING.
6. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTITUTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER AND/OR THE TOWN.
7. 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.
8. 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.
9. SEDIMENT CONTROL DEVICES AND EROSION CONTROL BARRIERS MAY BE REMOVED ONLY AFTER THE SITE HAS BEEN STABILIZED.
10. 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.
11. EARTHWORK ACTIVITY ON THE SITE SHALL BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED AWAY FROM ADJUTING STRUCTURES, PROPERTY, ETC.
12. 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 EROSION CONTROL.
13. REFER TO CONSTRUCTION DETAILS FOR ADDITIONAL EROSION CONTROL MEASURES.
14. 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.
15. 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.

DUST CONTROL NOTES:

1. THE CONTRACTOR SHALL TAKE STEPS TO MINIMIZE THE AMOUNT OF DUST GENERATED ON THE SITE AND ENSURE THE SITE IS IN CONFORMANCE WITH THE DEP AIR POLLUTION CONTROL REGULATIONS 310 CMR 7.09.
2. DUST CONTROL MEASURES SHOULD BE IMPLEMENTED AS NEEDED DURING ALL SITE GRADING ACTIVITIES AND PARTICULARLY DURING WINDY CONDITIONS.
3. 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.
4. 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.
5. WHEEL AND TRUCK WASHES SHALL BE USED AT SITE EGRESS AS NEEDED.
6. ALL TRUCKS LEAVING THE SITE WHICH HAVE BEEN LOADED WITH SOIL OR DUST-PRODUCING MATERIAL SHALL BE TAPPED IN ACCORDANCE WITH APPLICABLE REGULATIONS.
7. 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 SWEEPED AND/OR WATERED AS NEEDED.
8. 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.
9. 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).

STABILIZATION DEADLINES

(IN ACCORDANCE WITH THE EPA 2022 CONSTRUCTION GENERAL PERMIT)

- INITIATE THE INSTALLATION OF STABILIZATION MEASURES IMMEDIATELY AFTER ANY AREAS OF EXPOSED SOIL WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS; AND
- COMPLETE THE INSTALLATION OF STABILIZATION MEASURES AS SOONER AFTER EACH RAINFALL EVENT (0.25" PER 2022 GCP) THAN 14 CALENDAR DAYS AFTER STABILIZATION HAS BEEN INITIATED.

IF DISTURBANCE IS MORE THAN 5 ACRES AT A TIME:

CONSTRUCTION NOTES:

1. THE PROPERTY LINES AND EXISTING CONDITIONS SHOWN HEREON, ARE COMPILED FROM THE RECORD PLAN (PARCEL A-PLAN NUMBER 624 OF 1985 IN PLAN BOOK 433) AND DEED (BOOK 31678 PAGE 107) AND ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND BASED UPON A FIELD SURVEY BY ATLANTIC DESIGN ENGINEERS, INC.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS SHOWN AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT MAY BE FOUND IN THE PLAN.
3. CONTRACTOR SHALL VERIFY ALL CRITICAL ELEVATIONS AND INVERTS PRIOR TO CONSTRUCTION.
4. 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.
5. 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.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY DISAGE, 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.
7. ALL BUILDINGS, SURFACE, AND SUBSURFACE IMPROVEMENTS ON AREAS ADJACENT TO THE SITE ARE NOT NECESSARILY SHOWN HEREON.
8. 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 RIM 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.
9. 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. ANY INTERRUPTIONS IN SERVICE ARE NECESSARY TO ADJUSTING PROPERTY OWNERS, A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN.
10. 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.
11. CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES, INCLUDING WATER TRUCKS THROUGHOUT CONSTRUCTION UNTIL PAVING IS COMPLETED AND ALL SURFACES ARE STABILIZED. DUST CONTROL AGENTS SUCH AS CALCEOL, CHLORIDE, OR SODIUM CHLORIDE SHALL BE USED ONLY WITH PERMISSION FROM THE TOWN.
12. 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.
13. 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.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SURVEY CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE PROPOSED WORK.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE RECORDS OF THE LOCATION AND ELEVATION OF ALL WORK INSTALLED.
16. THE CONTRACTOR SHALL INSTITUTE AND MAINTAIN ALL SAFETY MEASURES NECESSARY TO PROTECT THE PUBLIC DURING CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO, BARRICADES, SIGNS, FLASHING LIGHTING, POLICE DETAIL, AND ANY OTHER MEANS AS DIRECTED BY THE TOWN. NO TRENCHES ARE TO REMAIN OPEN OVERNIGHT.
17. THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIALS AND OTHER DEBRIS RESULTING FROM THE WORK. AT THE END OF CONSTRUCTION THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERFORMED IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED FROM THE SITE.
18. 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.
19. CONTRACTOR TO DESIGNATE A SPECIFIC AREA FOR COMBUSTIBLE MATERIALS, APPROVED BY THE FIRE DEPARTMENT, SO THAT COMBUSTIBLES ARE NOT STAGED THROUGHOUT THE CONSTRUCTION SITE.
20. EXISTING TOP SOIL IS TO BE RETAINED, STOCKPILED AND SCREENED FOR RE-USE.

CONSTRUCTION PERIOD STORMWATER OPERATION AND MAINTENANCE:

SCHEDULE:

CONSTRUCTION ENTRANCE/TRACKING PAD: THE CONSTRUCTION ENTRANCE TRACKING PADS SHOULD BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE THE CONSTRUCTION OF TOPRESSING WITH ADDITIONAL STONE. THE ENTRANCE PAD AS PRACTICABLE, BUT NO LATER THAN 14 CALENDAR DAYS AFTER STABILIZATION HAS BEEN INITIATED.

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 GCP) 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 OF IN A SUITABLE AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURAL OR VEGETATIVE MEANS.

GRASSED SWALES WITH CHECK-DAMS: DURING CONSTRUCTION GRASSED LINED SWALES SHALL BE INSPECTED IMMEDIATELY AFTER MAJOR STORM EVENTS (>0.25 INCHES PER 2022 GCP) AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIR ERODED SPOTS IMMEDIATELY AFTER INSPECTION. ADDITIONAL INSPECTIONS SHOULD BE SCHEDULED DURING THE FIRST FEW MONTHS TO ENSURE THAT THE VEGETATION IN THE CHANNELS IS ESTABLISHED ADEQUATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED BEFORE IT EXCEEDS 0.5" IN DEPTH. SWALES SHALL BE MOVED AS NEEDED. CATCH BASINS SHOULD BE REMOVED FROM SWALES AND AREAS IMMEDIATELY UP-GRADIENT AND PROPERLY DISPOSED OF.

DEEP SUMP HOODED CATCH BASINS: SUMP HOODS (MINIMUM), OR AFTER MAJOR STORM EVENTS (>0.25" PER GCP) DURING CONSTRUCTION TO ENSURE THE SYSTEM IS DRAINING PROPERLY. CHECK FOR ACCUMULATION OF SEDIMENT AND PONDING WATER. IF PONDING WATER IS VISIBLE INSIDE THE SYSTEM FOR SEVERAL DAYS AFTER A STORM EVENT, NOTIFY THE ENGINEER FOR POSSIBLE REMEDIAL MEASURES. REMOVE SEDIMENT AS NECESSARY DURING CONSTRUCTION, WHILE THE SYSTEM IS DRY.

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 GCP) THROUGHOUT CONSTRUCTION. REPAIRS ARE TO BE MADE AS REQUIRED AND SEDIMENT MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES THE REMOVAL DEPTH PER MANUFACTURER SPECIFICATIONS.

STONE INFILTRATION TRENCH: INSPECT AFTER EVERY MAJOR STORM EVENT (0.25" PER GCP) DURING CONSTRUCTION TO ENSURE THE SYSTEM IS DRAINING PROPERLY. CHECK FOR ACCUMULATION OF SEDIMENT AND PONDING WATER. IF PONDING WATER IS VISIBLE INSIDE THE SYSTEM FOR SEVERAL DAYS AFTER A STORM EVENT, NOTIFY THE ENGINEER FOR POSSIBLE REMEDIAL MEASURES. REMOVE SEDIMENT AS NECESSARY DURING CONSTRUCTION, WHILE THE SYSTEM IS DRY.

SUB-SURFACE INFILTRATION SYSTEM: INSPECT AFTER EVERY MAJOR STORM EVENT (>0.25 INCHES PER 2022 GCP) DURING CONSTRUCTION TO ENSURE THE SYSTEM IS DRAINING PROPERLY. CHECK FOR ACCUMULATION OF SEDIMENT AND PONDING WATER. IF PONDING WATER IS VISIBLE INSIDE THE SYSTEM FOR SEVERAL DAYS AFTER A STORM EVENT, NOTIFY THE ENGINEER FOR POSSIBLE REMEDIAL MEASURES. REMOVE SEDIMENT AS NECESSARY DURING CONSTRUCTION, WHILE THE SYSTEM IS DRY.

DETENTION BASINS: INSPECT AFTER EVERY MAJOR STORM EVENT (>0.25" PER 2022 GCP) DURING CONSTRUCTION TO ENSURE PROPER STABILIZATION AND FUNCTION. EXAMINE THE OUTLET STRUCTURE OR OUTLET PIPES FOR EVIDENCE OF CLOGGING OR EXCESSIVE OUTLET VELOCITIES. CHECK FOR ACCUMULATION OF SEDIMENT AND PONDING OF WATER. IF PONDING WATER ABOVE THE OUTLET PIPES IS VISIBLE INSIDE THE BASIN FOR SEVERAL DAYS AFTER A STORM EVENT, NOTIFY THE ENGINEER FOR POSSIBLE REMEDIAL MEASURES. MOVE THE BERM AT THE COMPLETION OF THE CONSTRUCTION PERIOD. REMOVE SEDIMENT WHILE THE SYSTEM IS DRY.

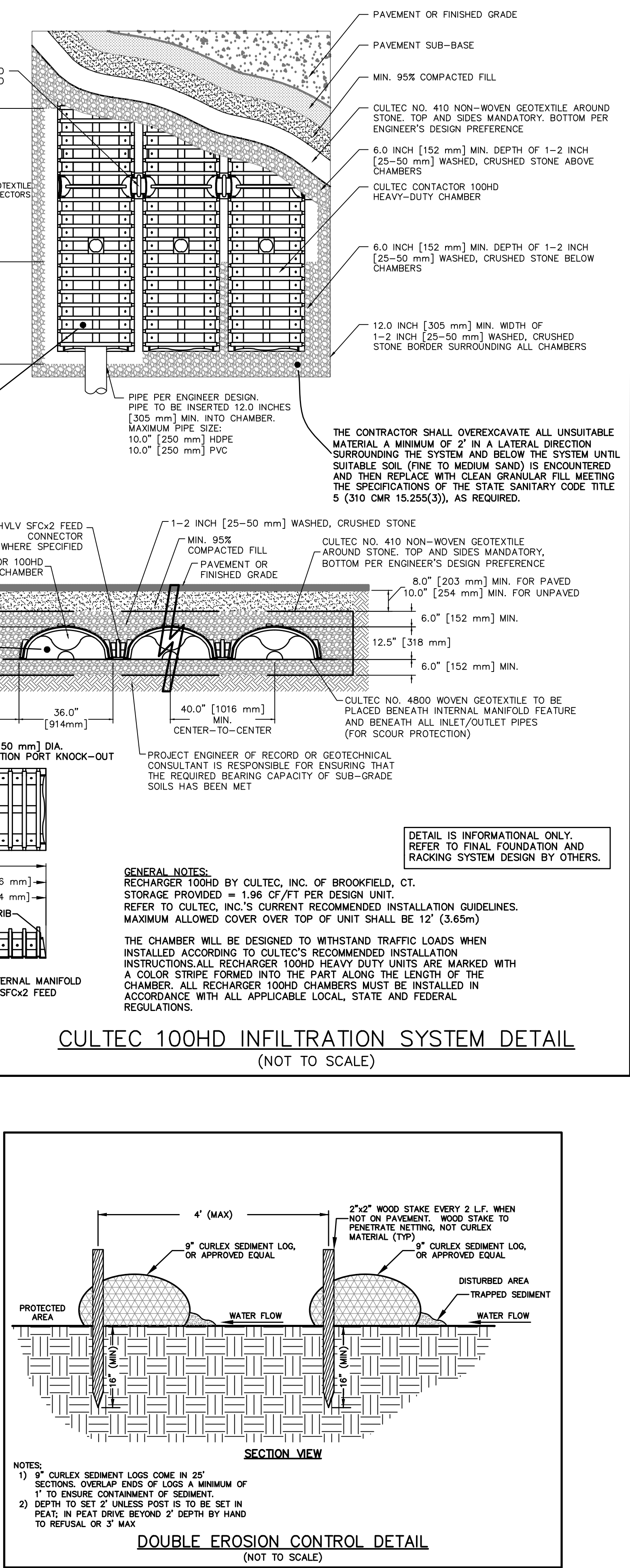
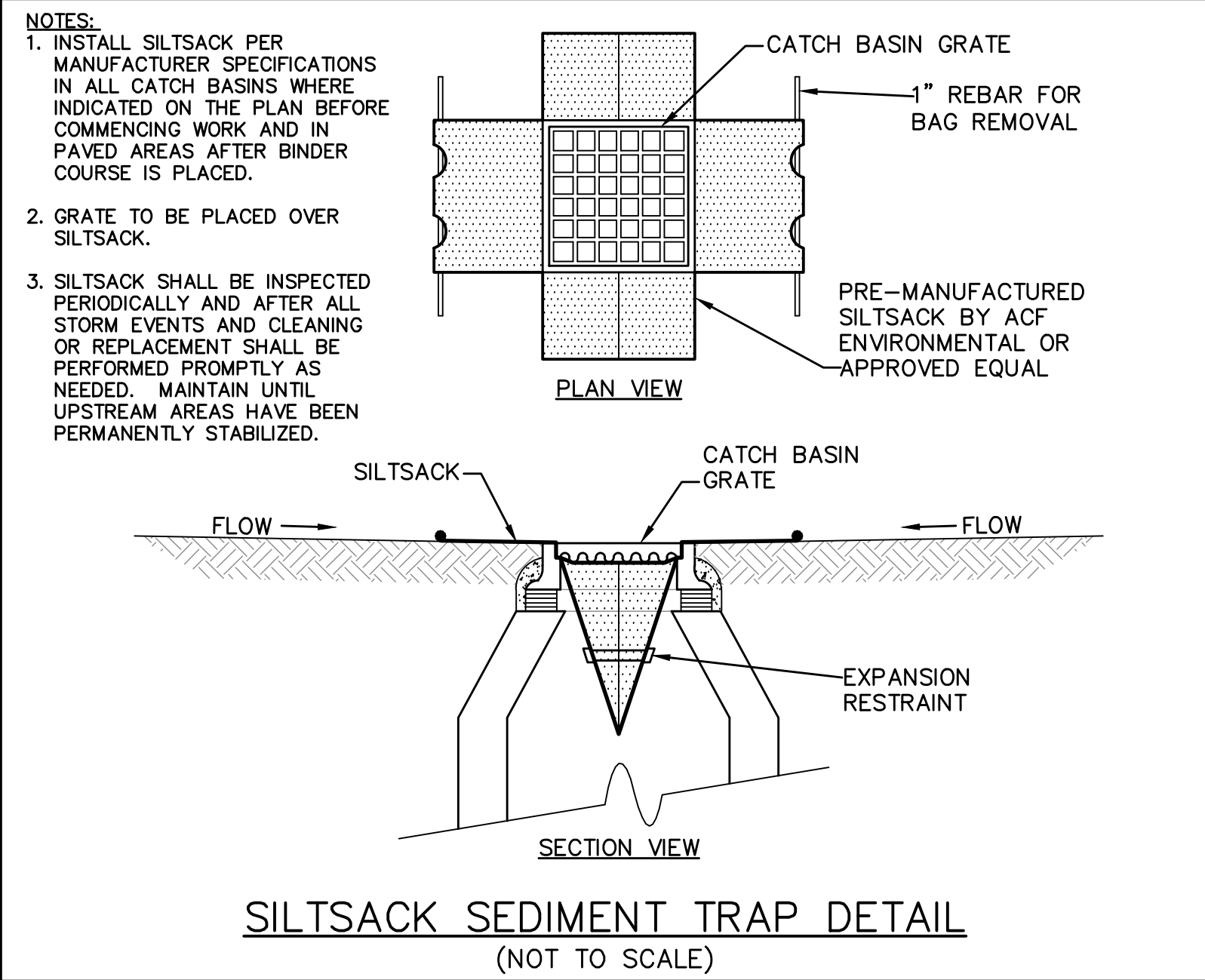
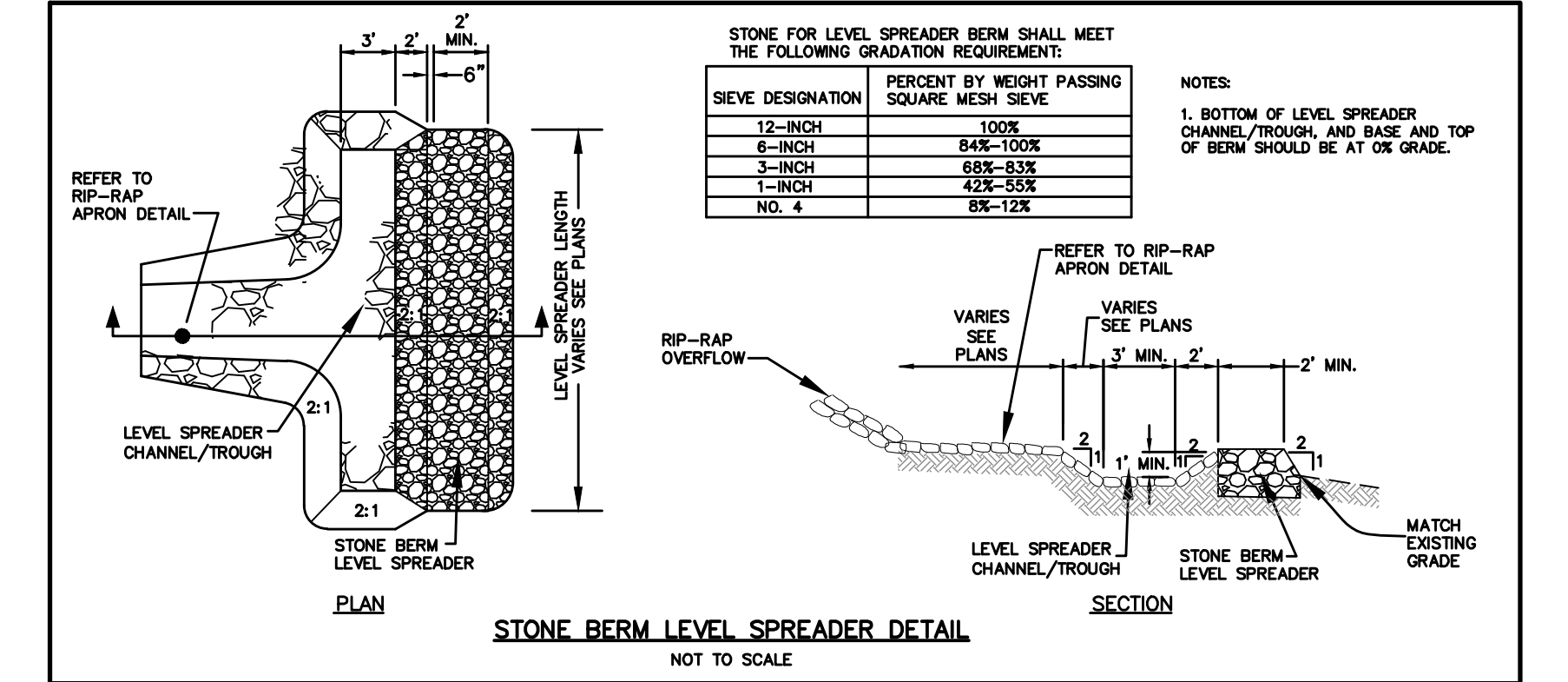
NOTES: 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER STAGING TO CONCENTRATE WORK IN PHASES, TO REDUCE SITE DISTURBANCE, SEED AND MULCH ANY DISTURBED AREAS AS THEY ARE COMPLETED. 2. ONCE SITE CONSTRUCTION IS COMPLETE, PERMANENT SEEDING WILL BE APPLIED BY BROADCASTING. NO EARTH WILL BE REMOVED FROM THE SITE. 3. TO ASSURE RAPID STABILIZATION, SUPPLEMENT SEEDING FOR AREAS WHERE COVERAGE IS LESS THAN 70% UNIFORM COVER OF VEGETATION. 22. 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.

VS UNION SOLAR SMART, LLC 24941 DANA POINT HARBOR DANA POINT, CA 92629 23. STAKE OUT PIER LOCATION FOR RACKING SYSTEM DRIVEN PIERS. 24. INSTALL UNDERGROUND UTILITIES (ELECTRIC) IN THE AREA OF THE SOLAR FIELD AND EQUIPMENT PADS LEADING TO THE FIRST CUSTOMER OWNED POLE LOCATION. 25. INSTALL SOLAR FIELD ARRAY AND ELECTRICAL FACILITIES ON SITE INCLUDING ABOVE-GROUND UTILITY POLES AND WIRING. 26. COMPLETE PAVING AND BERM AT ENTRANCE TO SITE. 27. STABILIZE ALL DISTURBED AREAS WITH LOAM AND SEED. 28. INSTALL PLANTINGS FOR WETLAND REPLICATION AND WITIGATION AREAS AS REQUIRED PER THE GODDARD CONSULTING INC. WETLAND REPLICATION PLAN AND HABITAT RESTORATION PLAN. 29. AFTER COMPLETION OF CONSTRUCTION THE SITE WILL BE INSPECTED FOR ANY REMAINING DEBRIS AND, IF FOUND, WILL BE CLEANED AND DISPOSED OF OFF-SITE. INSTALL PERIMETER FENCING, SIGNS, AND GATES.

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:

1. STAKE LIMIT OF WORK/CLEARING TO DEFINE THE LIMIT OF WORK FOR THE ACCESS ROADS, SOLAR FIELD, UNDERGROUND UTILITY LINES, AND STORMWATER FACILITIES.
2. NOTIFY DIG-SAFE TO DEMARCATE ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
3. INSTALL EROSION CONTROL BARRIERS AT DOWN GRADIENT LIMITS OF WORK AND AT INTERIM LOCATIONS WITHIN ARRAY AS SHOWN ON THE SITE PLANS.
4. BEGIN CLEARING AND CHIPPING OF VEGETATION. A TEMPORARY ACCESS ROAD WILL BE CLEARED/INSTALLED TO ACCESS PROPOSED BASIN LOCATION. CLEARING WILL BE LIMITED TO A MANAGEABLE ACREAGE WHILE TEMPORARY SEDIMENT BASINS ARE INSTALLED TO PREVENT SILTATION OF PERMANENT STORMWATER BASINS.
5. STOCKPILE WOOD CHIPS AS NEEDED IN PILES FOR FURTHER USE IN EROSION CONTROL AND SOIL STABILIZATION.
6. AT THE END OF EACH DAY OF CLEARING OPERATIONS, WALK SITE PERIMETER TO REPAIR ANY DAMAGED EROSION CONTROLS OR PERFORM ANY NECESSARY MAINTENANCE.
7. AT THE END OF EACH DAY, INSPECT ALL TEMPORARY STORMWATER FACILITIES AND REPAIR ANY DAMAGE AND PERFORM ANY NECESSARY MAINTENANCE.
8. INSTALL CONSTRUCTION ENTRANCE PAD AND SUBSURFACE DRAINAGE SYSTEM AS SHOWN ON THE SITE PLANS. MAINTAIN BERM TO PREVENT SILTATION OF THE UNDERGROUND CHAMBER DURING CONSTRUCTION.
9. COMPLETE FINAL GRADING OF STORMWATER SWALES, WETLAND REPLICATION AREAS AND STORMWATER BASINS.
10. INSTALL CHECK DAMS AND RIP-RAP APRONS/SPILLWAYS.
11. STABILIZE ALL STORMWATER FACILITIES AND SLOPES WITH LOAM AND SEED AND EROSION CONTROL MEASURES AS REQUIRED.
12. INSTALL AND COMPACT GRAVEL ACCESS ROAD AND INTERIOR SITE ACCESS ROADS.
13. PREPARE CONTRACTOR STAGING/LAYDOWN AREA FOR TEMPORARY PARKING, STORAGE, WHEEL WASH AREA, CONCRETE WASH-OUT, AND MOBILE FUELING AREAS.
14. STUMPS ARE TO BE GROUND WHERE NECESSARY AND USED FOR WOOD CHIP BERMS.
15. GRADING ACTIVITIES SHOULD BE AVOIDED DURING EXTREMELY WET CONDITIONS TO MINIMIZE SOIL COMPACTION, DEEP RUTTING, AND SOIL SHEARING.
16. IF NECESSARY, PROVIDE TEMPORARY PROTECTIVE MEASURES, WHICH MAY INCLUDE BARRIERS AND/OR SILT SACKS UNTIL SITE IS STABILIZED AND VEGETATED. INTERMEDIATE EROSION CONTROLS SHOULD BE INSTALLED PRIOR TO THE INSTALLATION OF THE SOLAR ARRAY RACKING SYSTEM.
17. USE DISKS, TILERS, OR HARROWS TO BREAK UP THE SURFACE WHERE SOIL HAS BECOME COMPACTED DURING CONSTRUCTION ACTIVITIES IN ORDER TO CREATE VIABLE SEED BEDS.
18. INITIATE THE INSTALLATION OF STABILIZATION MEASURES IMMEDIATELY IN ANY AREAS OF EXPOSED SOIL MORE THAN FIVE ACRES WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. COMPLETE THE INSTALLATION OF MEASURES AS SOON AS PRACTICABLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER STABILIZATION HAS BEEN INITIATED. OATS WILL BE USED FOR A SPRING OR SUMMER SEEDING. WINTER WHEAT FOR A FALL SEEDING. THIS COVER CROP WILL ESTABLISH QUICKLY, PROVIDING ADDITIONAL EROSION CONTROL THROUGHOUT CONSTRUCTION, ALONG WITH PROTECTION OF FINAL NATIVE VEGETATION DURING ITS ESTABLISHMENT PERIOD.
19. 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.
20. ONCE SITE CONSTRUCTION IS COMPLETE, PERMANENT SEEDING WILL BE APPLIED BY BROADCASTING. NO EARTH WILL BE REMOVED FROM THE SITE.
21. TO ASSURE RAPID STABILIZATION, SUPPLEMENT SEEDING FOR AREAS WHERE COVERAGE IS LESS THAN 70% UNIFORM COVER OF VEGETATION.
22. 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.
23. STAKE OUT PIER LOCATION FOR RACKING SYSTEM DRIVEN PIERS.
24. INSTALL UNDERGROUND UTILITIES (ELECTRIC) IN THE AREA OF THE SOLAR FIELD AND EQUIPMENT PADS LEADING TO THE FIRST CUSTOMER OWNED POLE LOCATION.
25. INSTALL SOLAR FIELD ARRAY AND ELECTRICAL FACILITIES ON SITE INCLUDING ABOVE-GROUND UTILITY POLES AND WIRING.
26. COMPLETE PAVING AND BERM AT ENTRANCE TO SITE.
27. STABILIZE ALL DISTURBED AREAS WITH LOAM AND SEED.
28. INSTALL PLANTINGS FOR WETLAND REPLICATION AND WITIGATION AREAS AS REQUIRED PER THE GODDARD CONSULTING INC. WETLAND REPLICATION PLAN AND HABITAT RESTORATION PLAN.
29. AFTER COMPLETION OF CONSTRUCTION THE SITE WILL BE INSPECTED FOR ANY REMAINING DEBRIS AND, IF FOUND, WILL BE CLEANED AND DISPOSED OF OFF-SITE. INSTALL PERIMETER FENCING, SIGNS, AND GATES.



TEST PIT #1

Estimated Depth to High Groundwater Mottles @74"

| SOIL LOG | | | | | |
|------------|------------------------|--------------|-------------------------|---------|---|
| Depth (in) | Soil Horizon/ Layer | Soil Texture | Soil Color (Munsell) | Mottles | Other (Structure, Stones, Boulders, Consistency, % Gravel) |
| 0-8 | O/A | Sandy Loam | 10YR 3/2 | | |
| 8-34 | B | Sandy Loam | 10YR 5/6 | | |
| 34-108 | C | Loamy Sand | 2.5Y 5/2 | 74" | |

TEST PIT #2

Estimated Depth to High Groundwater Mottles @ 70"

| SOIL LOG | | | | | |
|------------|------------------------|--------------|-------------------------|---------|---|
| Depth (in) | Soil Horizon/ Layer | Soil Texture | Soil Color (Munsell) | Mottles | Other (Structure, Stones, Boulders, Consistency, % Gravel) |
| 0-8 | O/A | Sandy Loam | 10YR 3/2 | | |
| 8-32 | B | Sandy Loam | 10YR 5/6 | | |
| 32-94 | C | Loamy Sand | 2.5Y 5/2 | 70" | Refusal |

TEST PIT #3

Estimated Depth to High Groundwater Mottles @60"

| SOIL LOG | | | | | |
|------------|------------------------|-----------------------|-------------------------|---------|---|
| Depth (in) | Soil Horizon/ Layer | Soil Texture | Soil Color (Munsell) | Mottles | Other (Structure, Stones, Boulders, Consistency, % Gravel) |
| 0-12 | O/A | Sandy Loam | 10YR 3/2 | | |
| 12-38 | B | Sandy Loam | 10YR 5/6 | | |
| 38-56 | C1 | Loamy Sand | 2.5Y 5/2 | | |
| 56-74 | C2d | Sandy Loam | 2.5Y 5/3 | 60" | |
| 74-122 | C3 | Medium Coarse Sand | 2.5Y 5/4 | | |

TEST PIT #4

Estimated Depth to High Groundwater Mottles @50"

| SOIL LOG | | | | | |
|------------|------------------------|--------------|-------------------------|---------|---|
| Depth (in) | Soil Horizon/ Layer | Soil Texture | Soil Color (Munsell) | Mottles | Other (Structure, Stones, Boulders, Consistency, % Gravel) |
| 0-10 | O/A | Sandy Loam | 10YR 3/2 | | |
| 10-32 | B | Sandy Loam | 10YR 5/8 | | |
| 32-76 | C | Loamy Sand | 2.5Y 5/6 | 50" | |

TEST PIT #5

Estimated Depth to High Groundwater Mottles @40"

| SOIL LOG | | | | | |
|------------|------------------------|--------------|-------------------------|---------|---|
| Depth (in) | Soil Horizon/ Layer | Soil Texture | Soil Color (Munsell) | Mottles | Other (Structure, Stones, Boulders, Consistency, % Gravel) |
| 0-8 | O/A | Sandy Loam | 10YR 3/2 | | |
| 8-34 | B | Sandy Loam | 10YR 5/8 | | |
| 34-84 | C | Loamy Sand | 2.5Y 5/6 | 40" | Refusal |

