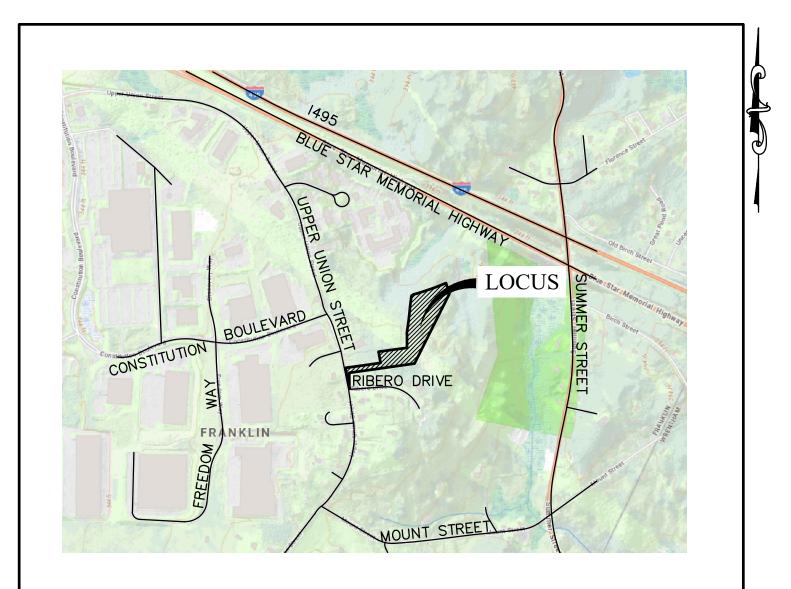
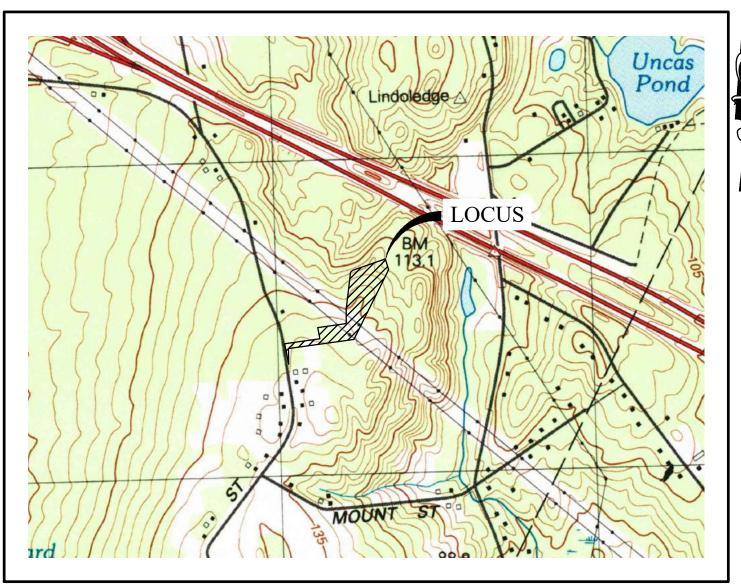
SITE DEVELOPMENT PLANS FOR UPPER UNION SOLAR PROJECT

FRANKLIN, MASSACHUSETTS 02038

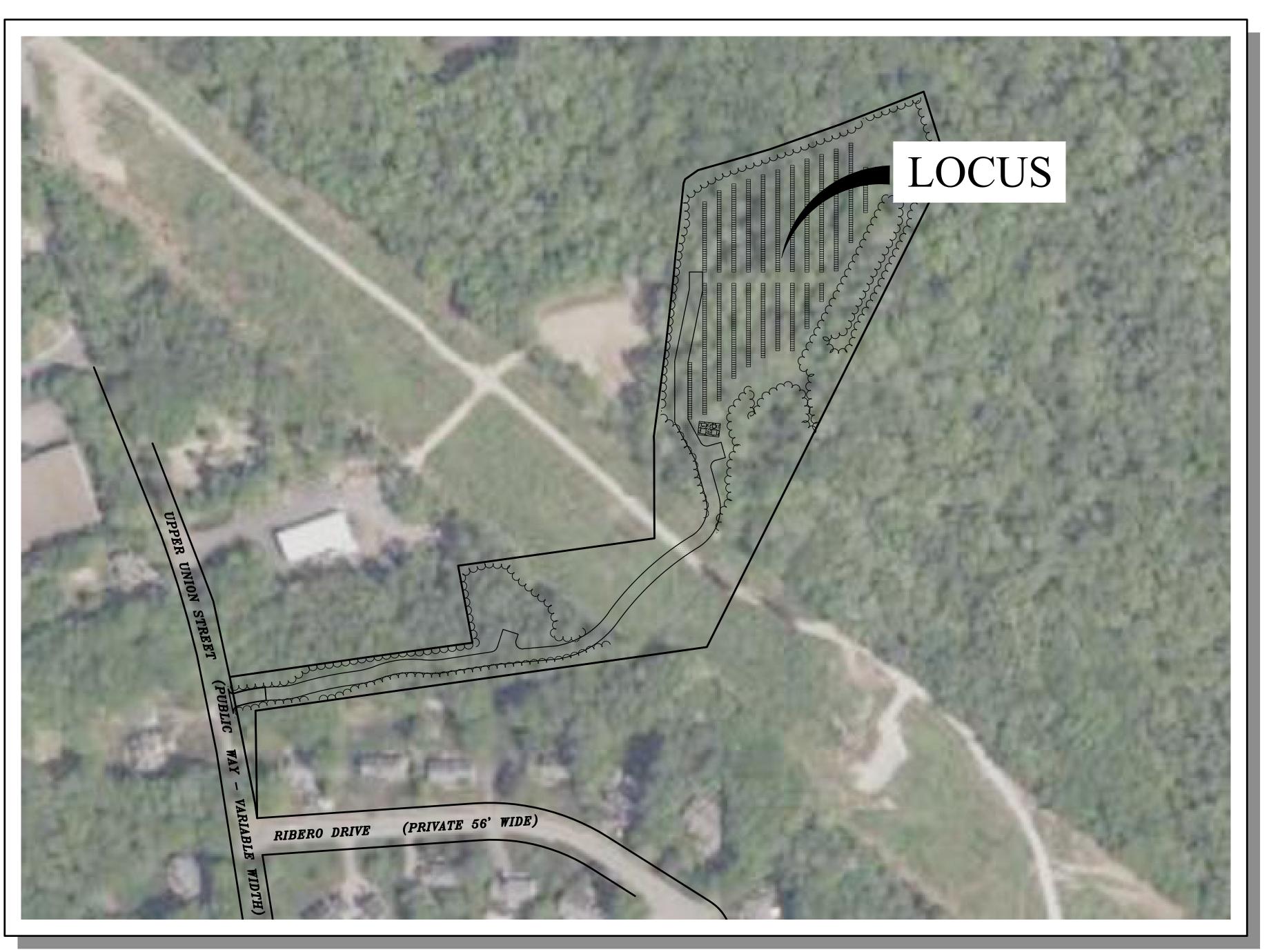
DATE: JUNE 19, 2023 REVISION DATE: NOVEMBER 10, 2023

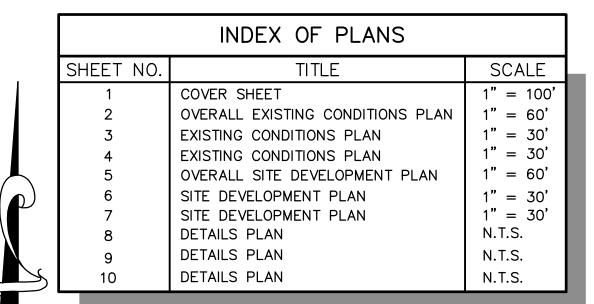


 $\frac{\text{VICINITY MAP}}{1" = 1,000'}$



 $\frac{LOCUS\ MAP}{1"} = 1,000$





OWNER:

JOHN C. COLELLA SR. O UPPER UNION STREET FRANKLIN MA, 02038

APPLICANT:

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

ENGINEER:



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

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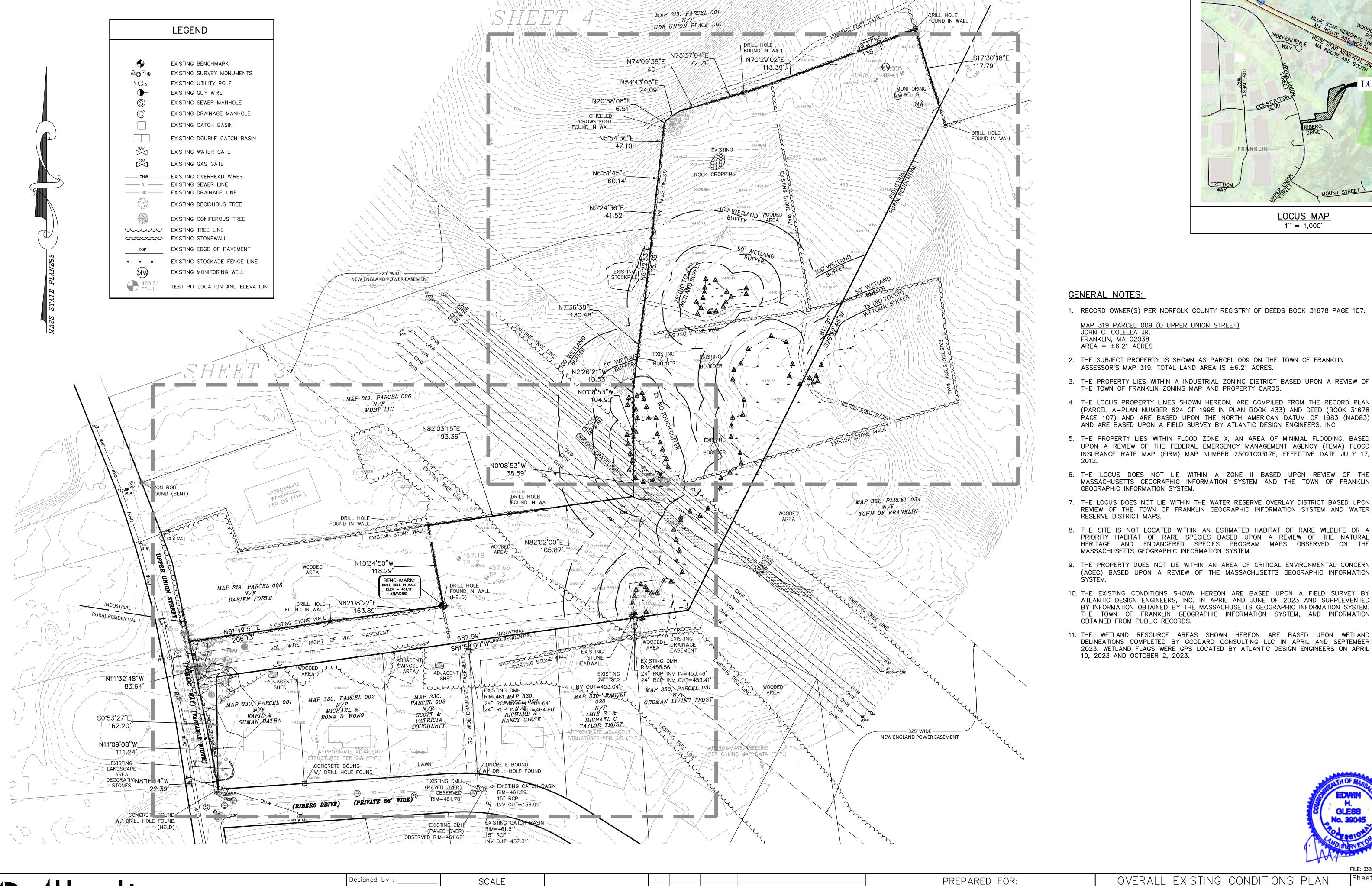
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JOB NUMBER

3328.00

OVERALL LOCATION PLAN

SCALE: 1" = 100'



LOCUS MAP

1" = 1,000'

1. RECORD OWNER(S) PER NORFOLK COUNTY REGISTRY OF DEEDS BOOK 31678 PAGE 107:

- 2. THE SUBJECT PROPERTY IS SHOWN AS PARCEL 009 ON THE TOWN OF FRANKLIN
- 3. THE PROPERTY LIES WITHIN A INDUSTRIAL ZONING DISTRICT BASED UPON A REVIEW OF
- 4. 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
- 5. 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,
- 6. THE LOCUS DOES NOT LIE WITHIN A ZONE II BASED UPON REVIEW OF THE MASSACHUSETTS GEOGRAPHIC INFORMATION SYSTEM AND THE TOWN OF FRANKLIN
- REVIEW OF THE TOWN OF FRANKLIN GEOGRAPHIC INFORMATION SYSTEM AND WATER
- PRIORITY HABITAT OF RARE SPECIES BASED UPON A REVIEW OF THE NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM MAPS OBSERVED ON THE
- (ACEC) BASED UPON A REVIEW OF THE MASSACHUSETTS GEOGRAPHIC INFORMATION
- 10. 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
- DELINEATIONS COMPLETED BY GODDARD CONSULTING LLC IN APRIL AND SEPTEMBER 2023. WETLAND FLAGS WERE GPS LOCATED BY ATLANTIC DESIGN ENGINEERS ON APRIL

GLESS

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

Drawn by:

Checked by

Survey chk. by

Approved by :

DESIGN ENGINEERS, INC.

P.O. Box 1051, Sandwich, MA 02563

(508) 888 - 9282

SCALE 1" = 60

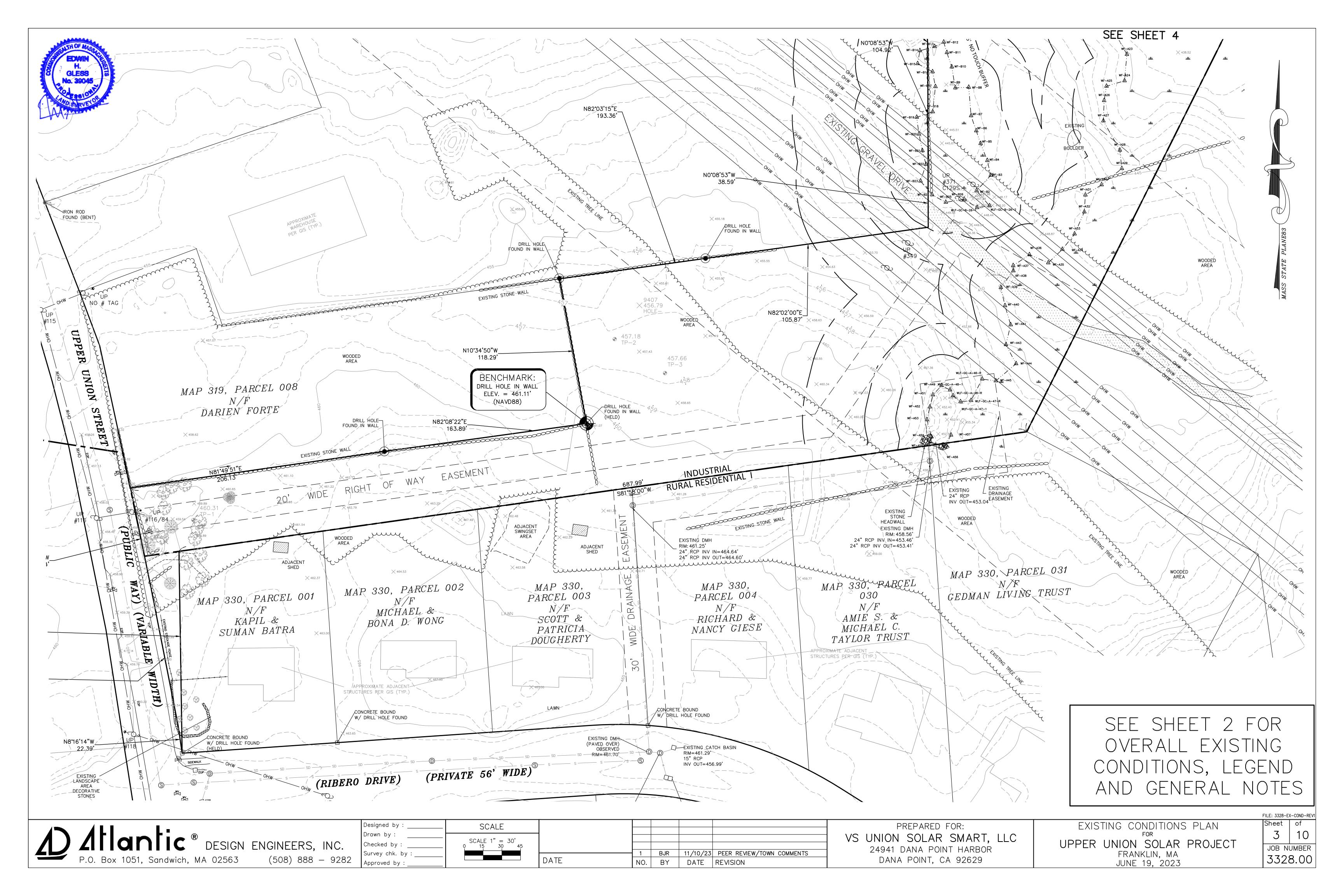
PREPARED FOR: VS UNION SOLAR SMART, LLC 24941 DANA POINT HARBOR DANA POINT, CA 92629

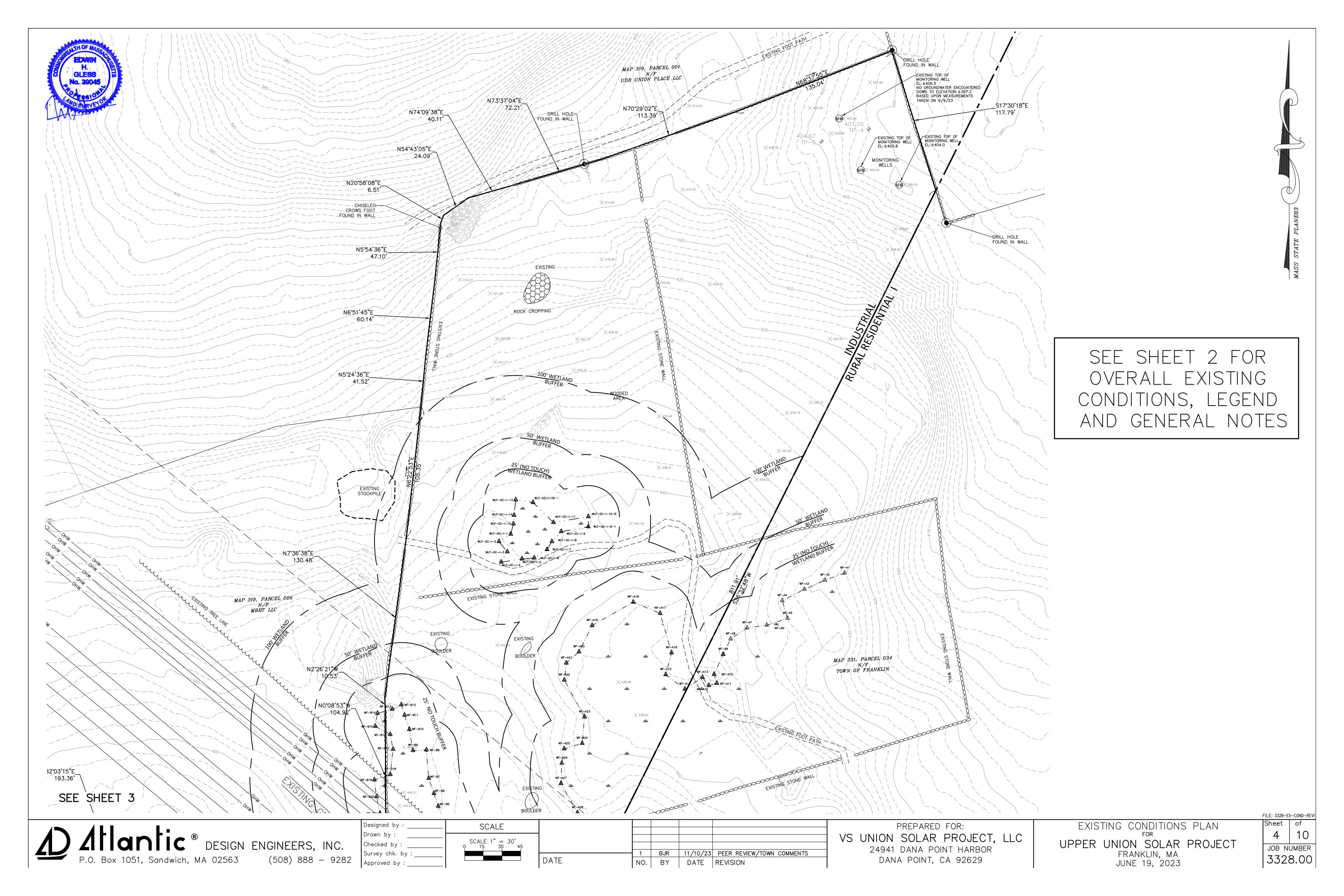
OVERALL EXISTING CONDITIONS PLAN

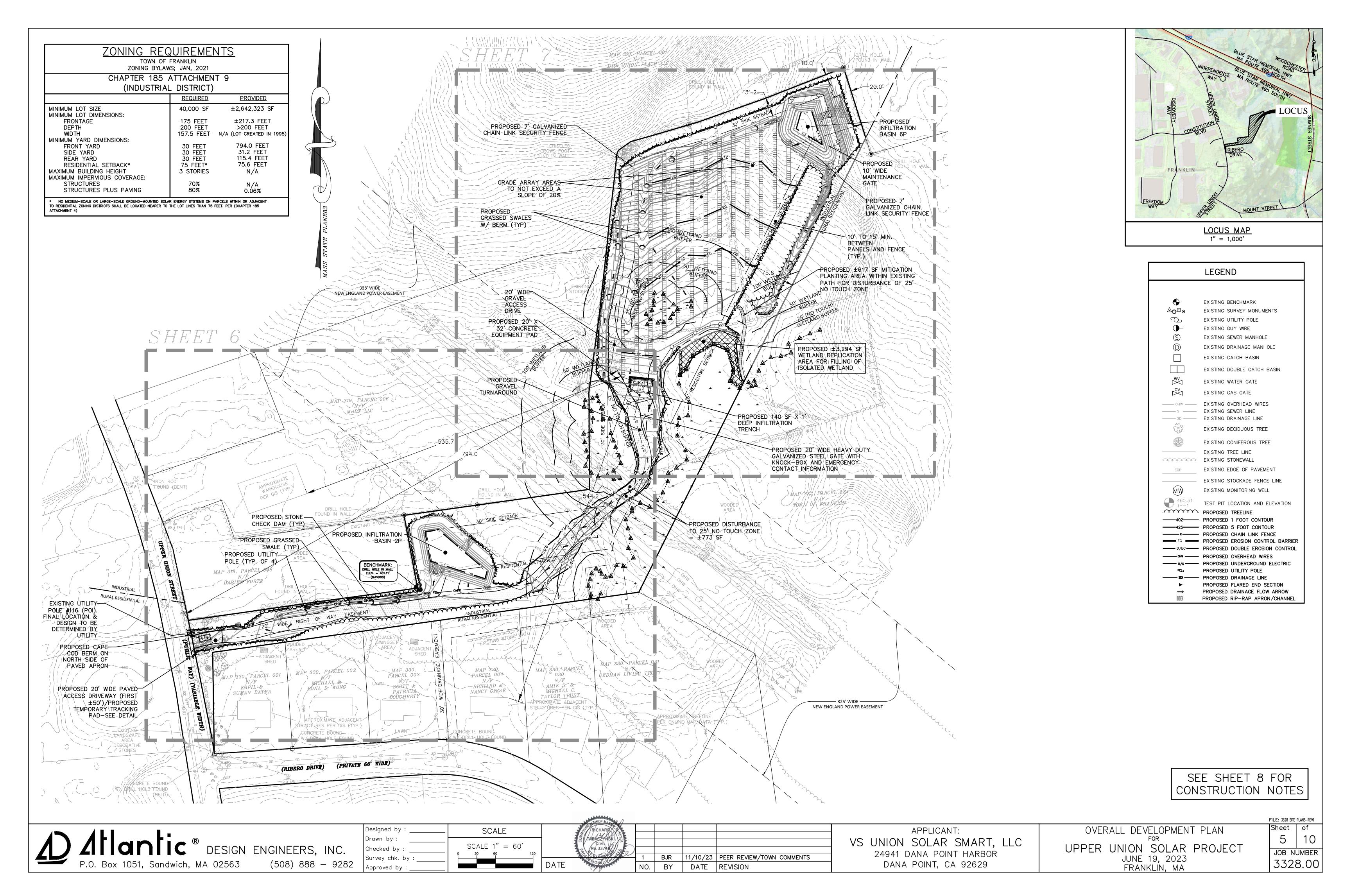
UPPER UNION SOLAR PROJECT FRANKLIN, MA JUNE 19, 2023

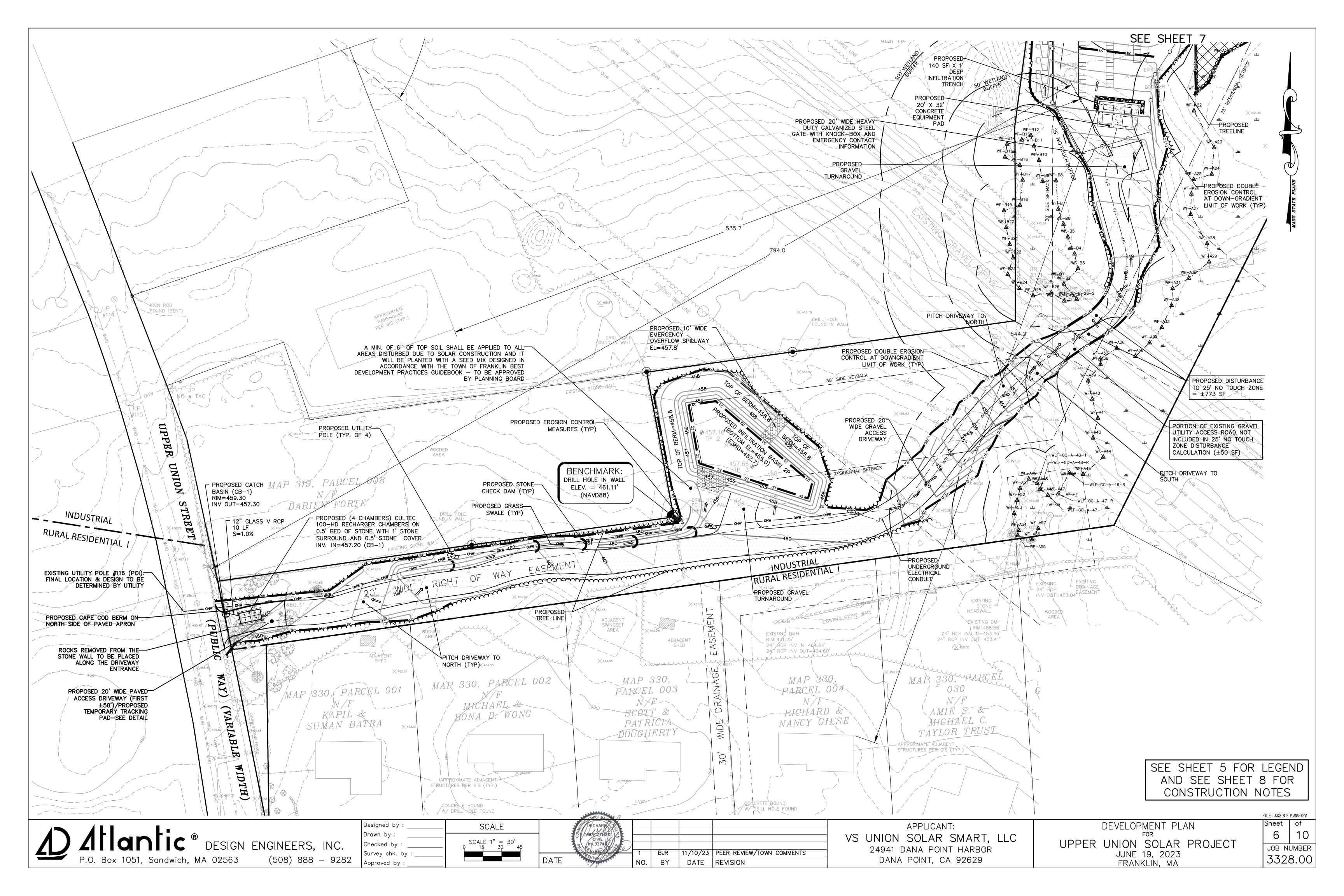
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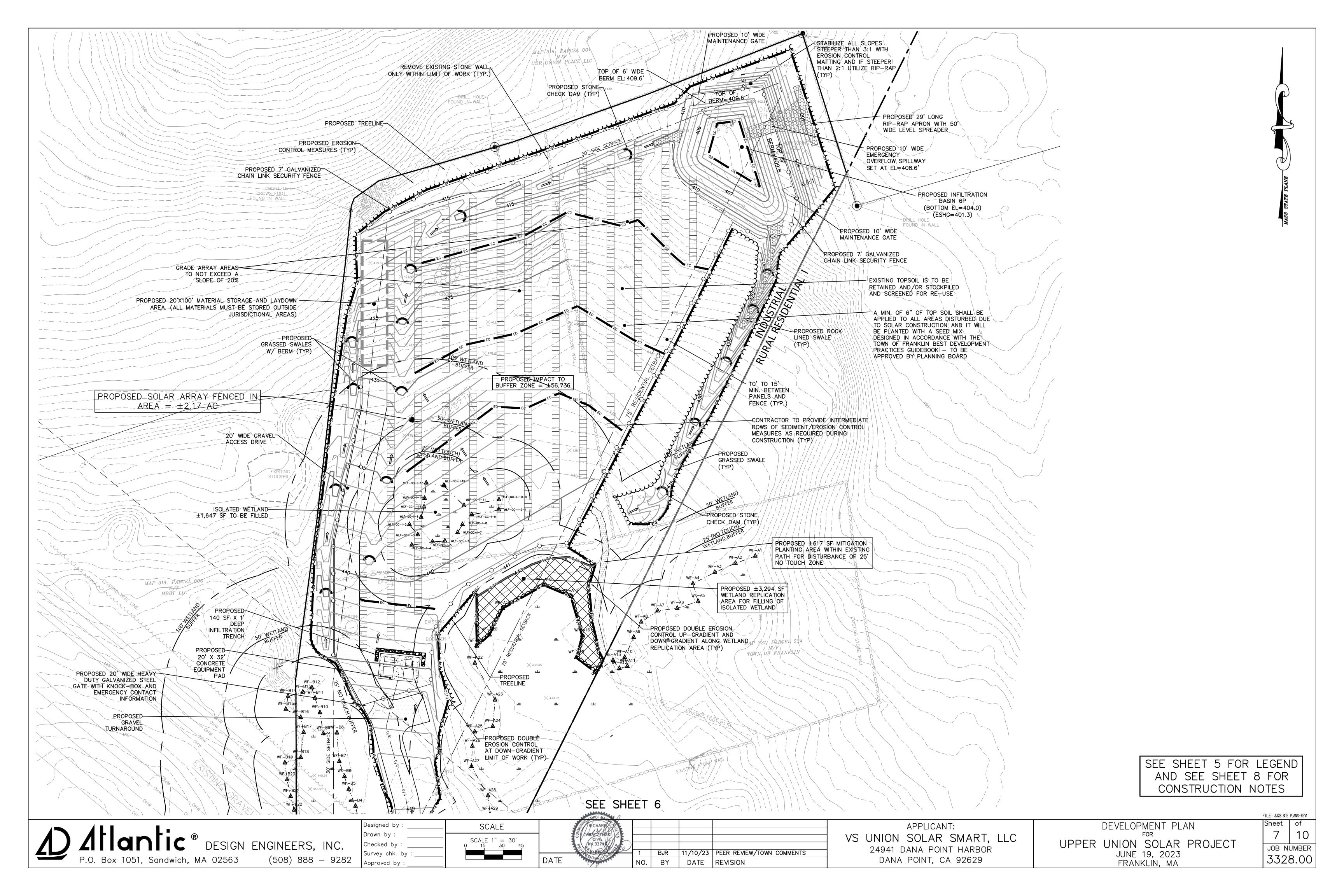
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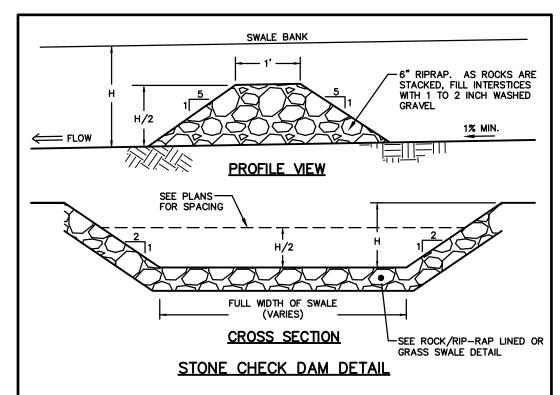


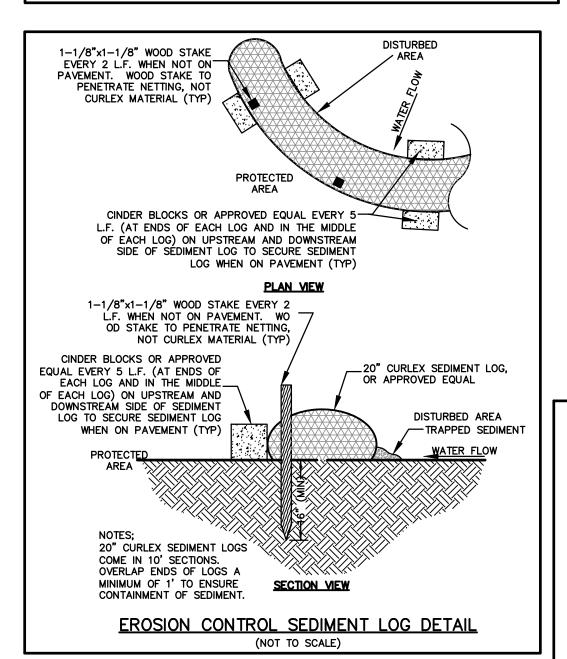


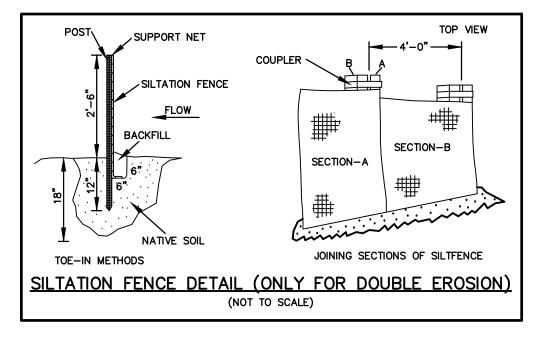


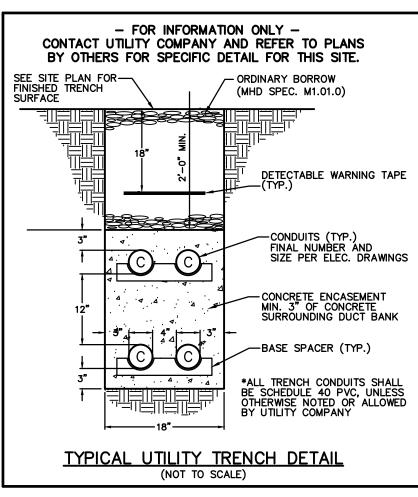


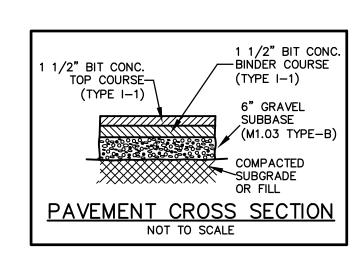












EROSION CONTROL NOTES:

- 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 MAINTAIN THROUGHOUT CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE LOAMED 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 30% AND SHALL BE SEEDED OR STABILIZED IF LEFT UNDISTURBED FOR TWO
- SEDIMENTATION CONTROL DEVICES AND EROSION CONTROL BARRIERS SHALL BE INSPECTED WEEKLY AND MAINTAINED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION AND PROMPTLY AFTER FACH RAINFALL.
- ANY SLOPE STEEPER AND 3:1 SHALL BE EQUIPPED WITH SLOPE STABILIZATION
- 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
- 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.
- O. 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 ABUTTING 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
- 13. REFER TO CONSTRUCTION DETAILS FOR ADDITIONAL EROSION CONTROL

EMERGENCY CONTROL.

<u>STAPLES</u>

----PER PLAN-

ANCHORING DETAIL

REFER TO MANUFACTURER'S

INSTALLATION INFORMATION.

EROSION CONTROL BLANKET INSTALLATION DETAIL

(NOT TO SCALE)

SPECIFICATIONS FOR ADDITIONAL

- 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.

NOTES:

2. LENGTH- NOT LESS THAN 50 FEET.

APPROVED SEDIMENT TRAPPING DEVICE

MINIMUM OF 24 FEET IS REQUIRED

3. THICKNESS-NOT LESS THAN 6 INCHES

DUST CONTROL NOTES:

310 CMR 7.09.

- 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
- . DUST CONTROL MEASURES SHOULD BE IMPLEMENTED AS NEEDED DURING ALL SITE GRADING 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.
- 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.
- WHEEL AND TRUCK WASHES SHALL BE USED AT SITE EGRESSES AS
- 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 SWEPT AND/OR WATERED AS
- 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.
- 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

- INITIATE THE INSTALLATION OF STABILIZATION MEASURES IMMEDIATELY IN ANY AREAS OF EXPOSED SOIL WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR
- COMPLETE THE INSTALLATION OF STABILIZATION MEASURES AS SOON AS PRACTICABLE, BUT NO LATER THAN 14 CALENDAR DAYS AFTER STABILIZATION HAS BEEN INITIATED.
- IF DISTURBANCE IS MORE THAN 5 ACRES AT A TIME:

(MIN.)

PLAN VIEW

CROSS SECTION

I. WIDTH=NOT LESS THAN 12 FEET WHERE MORE THAN ONE (1) ACCESS POINT TO THE SITE [WHERE ONE (1) ACCESS POINT A

. SURFACE WATER-SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE

7. MAINTENANCE-THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT

ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALLEBE

8. WHEN WHEEL WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

FABRIC

3" CRUSHED STONE

5. GEOTEXTILE—SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE

9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN

STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

ENTRANCE. -JF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5: 1 SLOPES WILL BE PERMITTED.

 COMPLETE THE INSTALLATION OF STABILIZATION MEASURES AS SOON AS PRACTICABLE, BUT NO LATER THAN SEVEN (7) CALENDAR DAYS AFTER STABILIZATION HAS BEEN INITIATED.

— EXISTING

PAVEMENT

PAVEMENT

CONSTRUCTION NOTES:

- 1. THE PROPERTY LINES AND EXISTING CONDITIONS SHOWN HEREON, ARE COMPILED FROM THE RECORD PLAN (PARCEL A-PLAN NUMBER 624 OF 1995 IN PLAN BOOK 433) AND DEED (NOOK 31678 PAGE 107) AND ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAVD83) AND BASED UPON A FIELD SURVEY BY ATLANTIC DESIGN ENGINEERS, SCHEDULE:
- . 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
- WHERE AN EXISTING PUBLIC UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY ETERMINED 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. 6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY DIGSAFE, 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. ALL BUILDINGS, SURFACE, AND SUBSURFACE IMPROVEMENTS ON AREAS ADJACENT TO

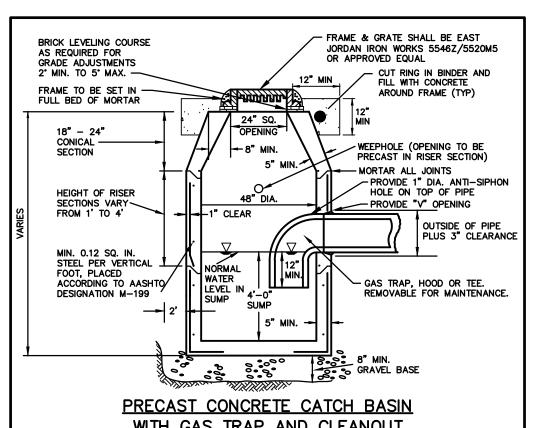
THE SITE ARE NOT NECESSARILY SHOWN HEREON.

- 3. 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 ITILITIES 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.
- 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 NECESSAR' O ABUTTING PROPERTY OWNERS, A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN.
- 10. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH HE 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 ADDITIVES SUCH AS CALCIUM 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 LITHLITY 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, FENCES, FLAGGERS, LIGHTING, POLICE DETAIL, AND ANY OTHER
- 17. 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 SURPLUS MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED
- 18. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPROVED PERMITS AND WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES,

DEBRIS. SHALL BE COLLECTED AND REMOVED FROM THE SITE.

RULES AND REGULATIONS.

- 19. CONTRACTOR TO DESIGNATE A SPECIFIC AREA FOR COMBUSTIBLE MATERIALS, APPROVED 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSPECTION AND BY THE FIRE DEPARTMENT, SO THAT COMBUSTIBLES ARE NOT SPREAD THROUGHOUT THE CONSTRUCTION SITE.
- 20. EXISTING TOP SOIL IS TO BE RETAINED, STOCKPILED AND SCREENED FOR RE-USE.



WITH GAS TRAP AND CLEANOUT (NOT TO SCALE) ACCESS AISLE WIDTH 20 COMPACTED SUBGRADE . ROAD GRADE WILL NOT (80%, SEE NOTE 2)

CONSTRUCTION PERIOD STORMWATER OPERATION AND MAINTENANCE:

- 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 PERIODIC TOPDRESSING WIT ADDITIONAL STONE. THE ENTRANCE PAD SHOULD BE INSPECTED WEEKLY AT A 2. NOTIFY DIG-SAFE TO DEMARCATE ALL UNDERGROUND UTILITIES PRIOR 1 MINIMUM, AFTER MAJOR STORM EVENTS (>0.25" PER THE CGP) AND DURING PERIODS OF HEAVY USE. WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE, THE PAD SHOULD BE TOP DRESSED WITH NEW STONE OR
- EROSION CONTROL BARRIERS (HAY BALES, SILT FENCE, ETC.) SHOULD BE INSPECTED IMMEDIATELY AFTER EACH RUN-OFF PRODUCING RAINFALL EVENT (>0.25 INCHES PER 2022 CGP) AND AT LEAST DAILY DURING PROLONGED RAINFALL. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THE LEVEL O DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT BARRIER. SEDIMENT SHOULD BE DISPOSED OF IN A SUITABLE AREA AND
- PROTECTED FROM EROSION BY EITHER STRUCTURAL OR VEGETATIVE MEANS. DURING CONSTRUCTION GRASSED LINED SWALES SHALL BE INSPECTED IMMEDIATELY AFTER MAJOR STORM EVENTS (>0.25 INCHES PER 2022 CGP) 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

SEDIMENT SHALL BE REMOVED BEFORE IT EXCEEDS 0.5' IN DEPTH. SWALES SHALL BE MOWED AS NEEDED. CLIPPINGS TO BE REMOVED FROM

SWALES AND AREAS IMMEDIATELY UP-GRADIENT AND PROPERLY DISPOSED OF

- DEEP SUMP HOODED CATCH BASINS: INSPECT MONTHLY (MINIMUM), OR AFTER MAJOR STORM EVENTS (>0.25" PER THE CGP) DURING CONSTRUCTION FOR CLOGGED GRATES OR PIPES AND EXCESSIVE ACCUMULATION OF SEDIMENT, SAND, OR TRASH. CLEAN SUMPS WHEN SEDIMENT REACHES 24". FOLLOWING CONSTRUCTION, THE CATCH BASIN SHOULD BE INSPECTED FOUR TIMES A YEAR. ALL CATCH BASINS SHALL BE PROVIDED WITH PRE-MANUFACTURED "SILT-BAG" CATCH BASIN INLET
- CATCH BASIN INLET PROTECTION ("SILT-SACKS"): ALL CATCH BASINS SHALL BE PROVIDED WITH INLET PROTECTION CONSISTING PRE-MANUFACTURED "SILT-SACKS" CATCH BASIN INLET SEDIMENT COLLECTION SYSTEMS UNTIL PAVEMENT BASE COURSE IS IN PLACE AND T INLET PROTECTION DEVICE WEEKLY AT A MINIMUM, AND AFTER MAJOR STORM EVENTS (>0.25" PER THE CGP) THROUGHOUT CONSTRUCTION. REPAIRS ARE TO BE MADÈ AS REQUIRED AND SEDIMENT MUST BE REMOVED WHEN THE LEVEL OF DECOMPOSITION REACHES THE REMOVAL DEPTH PER MANUFACTURER

SEDIMENT COLLECTION SYSTEMS UNTIL BASE COURSE IS IN PLACE.

- STONE INFILTRATION TRENCH: INSPECT AFTER EVERY MAJOR STORM EVENT (0.25" PER CGP) 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.
- INSPECT AFTER EVERY MAJOR STORM EVENT (>0.25 INCHES PER 2022 CGP) 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.
- 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 ENGINEER FOR POSSIBLE REMEDIAL MEASURES. MOW THE BERM AT TH COMPLETION OF THE CONSTRUCTION PERIOD. REMOVE SEDIMENT WHILE TH SYSTEM IS DRY.
- 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 COMPLETION OF CONSTRUCTION, IMMEDIATELY PRIOR OPERATION AND MAINTENANCE RESPONSIBILITY TO THE PROJECT PROPONENT. 2. UPON COMPLETION OF CONSTRUCTION, THE OPERATION AND MAINTENANCE OF

ALL COMPONENTS OF THE STORMWATER MANAGEMENT SYSTEM WILL BE THE VS UNION SOLAR SMART, LLC

- 3. DISPOSAL OF ACCUMULATED SEDIMENT AND HYDROCARBONS TO BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES AND
- THERE SHALL BE NO ILLICIT DISCHARGE OF ANY WASTE OR WASTE WATER INTO THE STORMWATER MANAGEMENT SYSTEM. THE MAINTENANCE OF FACILITY SHALL BE UNDERTAKEN IN SUCH A MANNER AS TO PREVENT AND DISCHARGE OF WASTE OR WASTE WATER INTO STORMWATER MANAGEMENT SYSTEM. ANY WASTE OIL OR OTHER WASTE PRODUCTS GENERATED DURING IAINTENANCE SHALL BE PROPERLY DISPOSED OF OFF SITE

DANA POINT, CA 92629



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 THI
- ACCESS ROADS, SOLAR FIELD, UNDERGROUND UTILITY LINES, AND STORMWATER FACILITIES.

3. INSTALL EROSION CONTROL BARRIERS AT DOWN GRADIENT LIMITS OF WORK

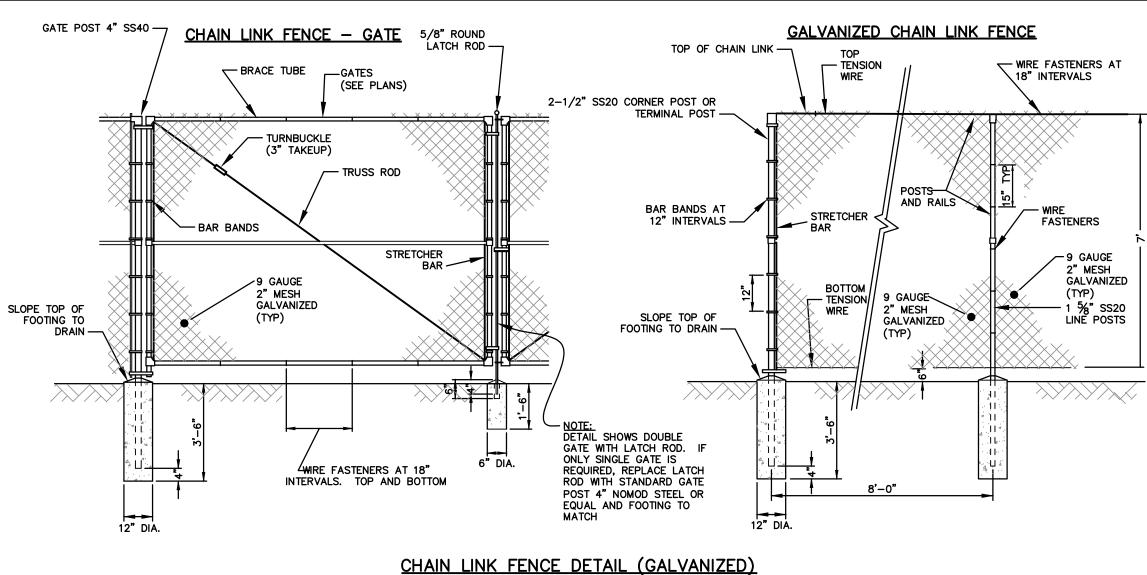
- THE START OF CONSTRUCTION.
- AND AT INTERIM LOCATIONS WITHIN ARRAY AS SHOWN ON THE SITE PLANS. 4. BEGIN CLEARING AND CHIPPING OF VEGETATION. A TEMPORARY ACCESS ROAD WILL BE CLEARED/INSTALLED TO ACCESS PROPOSED BASIN LOCATIONS. CLEARING WILL BE LIMITED TO A MANAGEABLE ACREAGE WHILE TEMPORARY SEDIMENT 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.
- VEGETATION IN THE CHANNELS IS ESTABLISHED ADEQUATELY. ACCUMULATED 7. AT THE END OF EACH DAY, INSPECT ALL TEMPORARY STORMWATER FACILITIES AND REPAIR ANY DAMAGE AND PERFORM ANY NECESSARY
 - 8. INSTALL CONSTRUCTION ENTRANCE PAD AND SUBSURFACE DRAINAGE SYSTEM AS SHOWN ON THE SITE PLANS. MAINTAIN SILT SAC IN CATCH BASIN 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

14. STUMPS ARE TO BE GROUND WHERE NECESSARY AND USED FOR WOOD CHIP

- 15. GRADING ACTIVITIES SHOULD BE AVOIDED DURING EXTREMELY WET CONDITIONS TO MINIMIZE SOIL COMPACTION, DEEP RUTTING, AND SOIL
- 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, TILLERS, 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 ANY AREAS OF EXPOSED SOIL MORE THAN FIVE ACRES WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BI TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. COMPLETE TH 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.

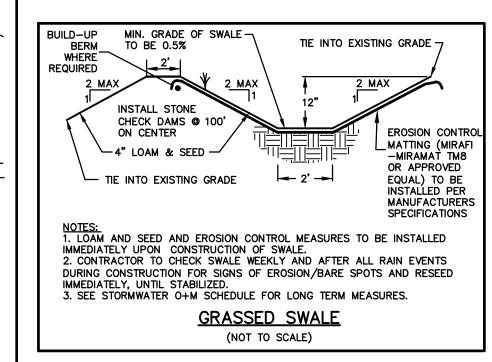
- 19. WORK INVOLVING FOUNDATION PILE DRIVING AND TRENCHING SHALL B STAGED TO CONCENTRATE WORK IN PHASES, TO REDUCE SITE DISTURBANCE. SEED AND MULCH ANY DISTURBED AREAS AS THEY ARE COMPLETED.
- 20. ONCE SITE CONSTRUCTION IS COMPLETE, PERMANENT SEEDING WILL & APPLIED BY BROADCASTING. 21. TO ASSURE RAPID STABILIZATION. SUPPLEMENT SEEDING FOR AREAS WHERI
- 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 SOLAI FIELD AND EQUIPMENT PADS LEADING TO THE FIRST CUSTOMER OWNED POLE
- 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 MITIGATION 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.

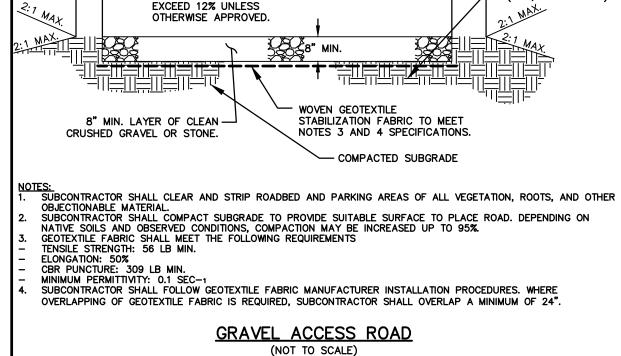


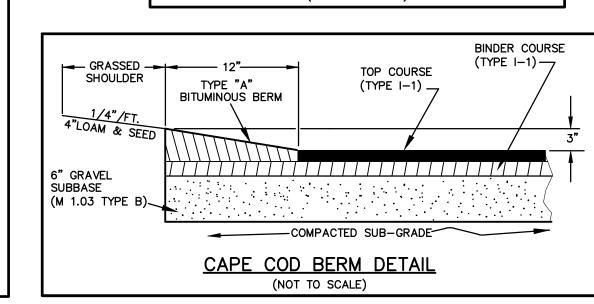
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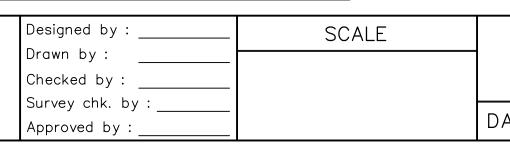
EROSION CONTROL

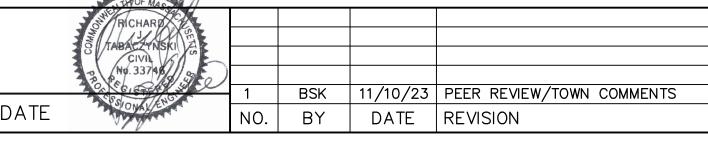










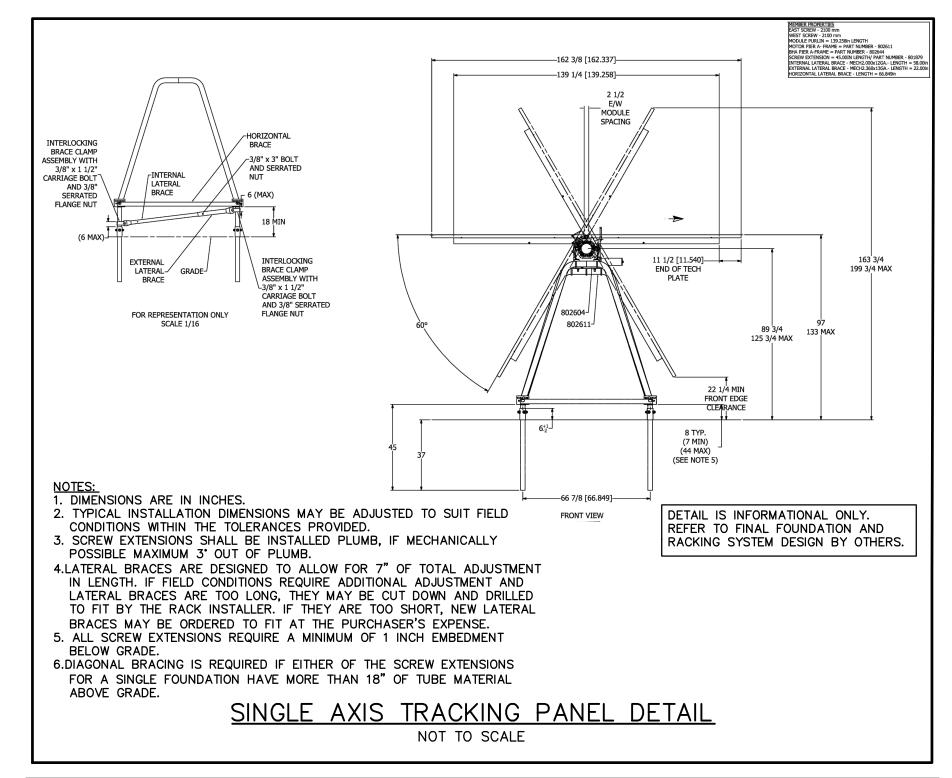


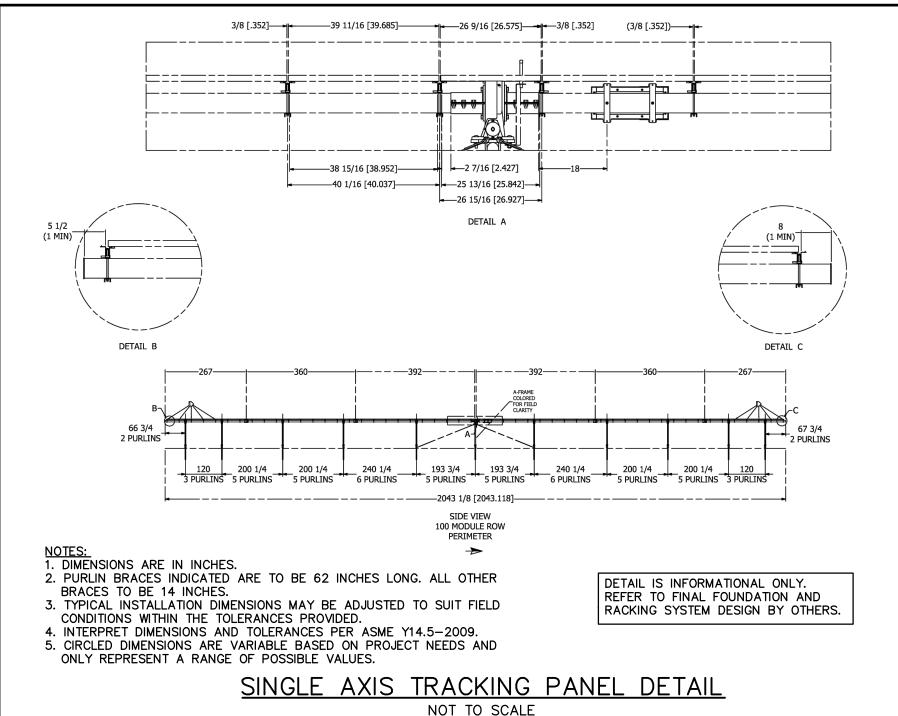
APPLICANT: VS UNION SOLAR SMART, LLC 24941 DANA POINT HARBOR DANA POINT, CA 92629

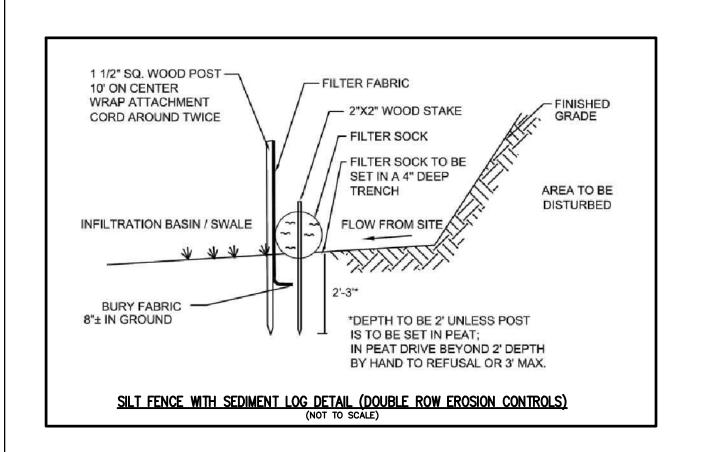
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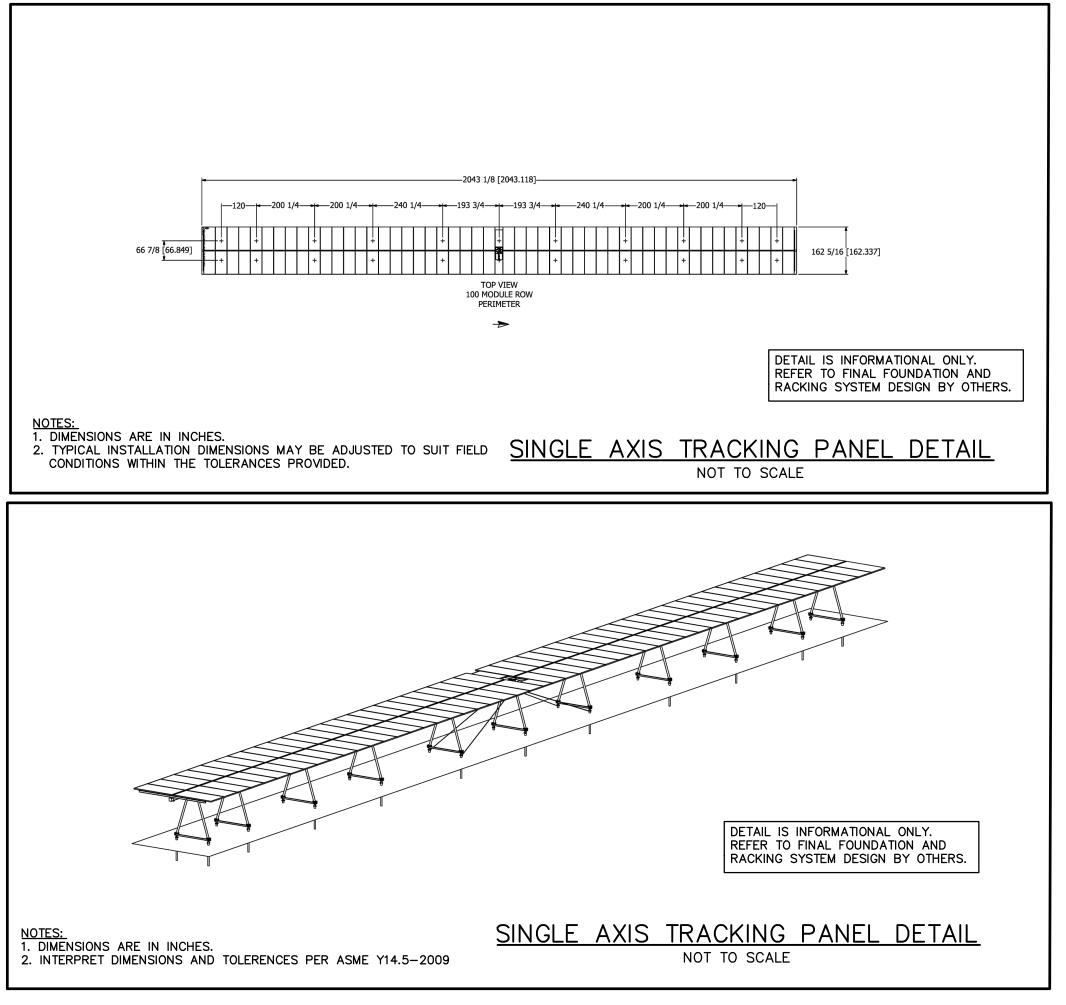
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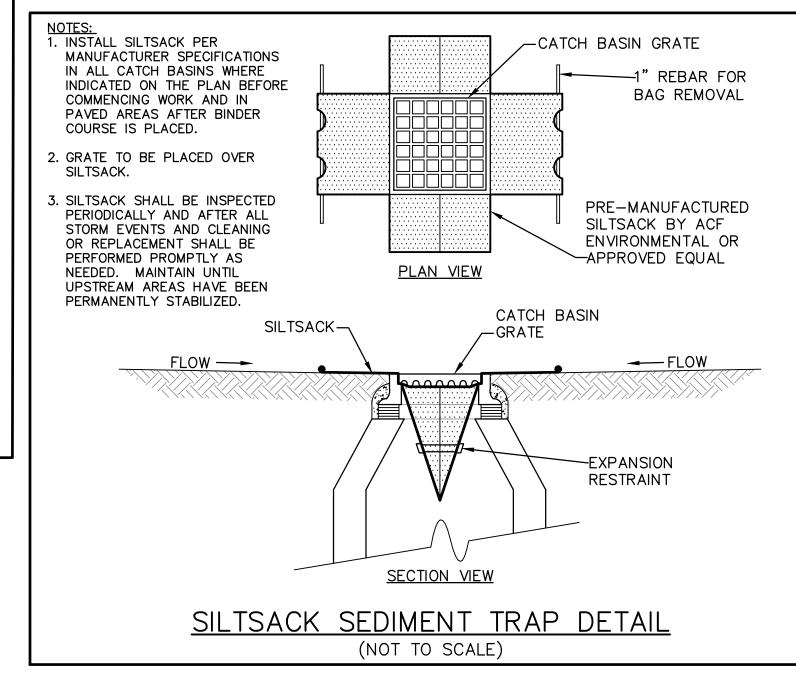
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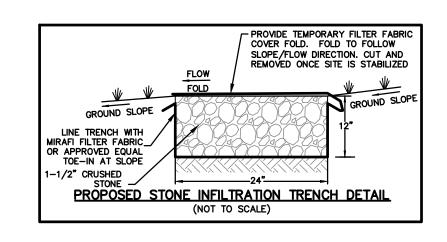


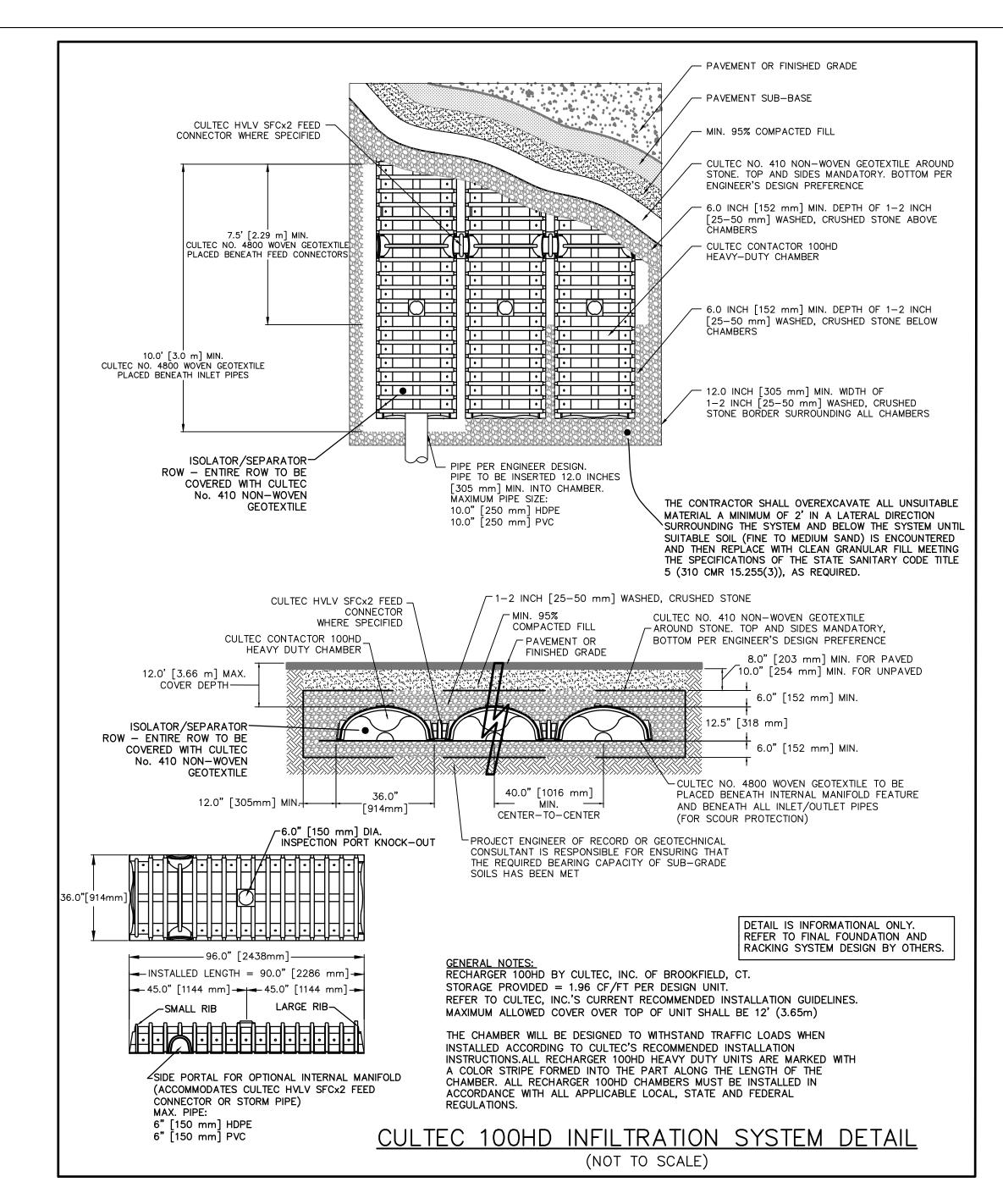


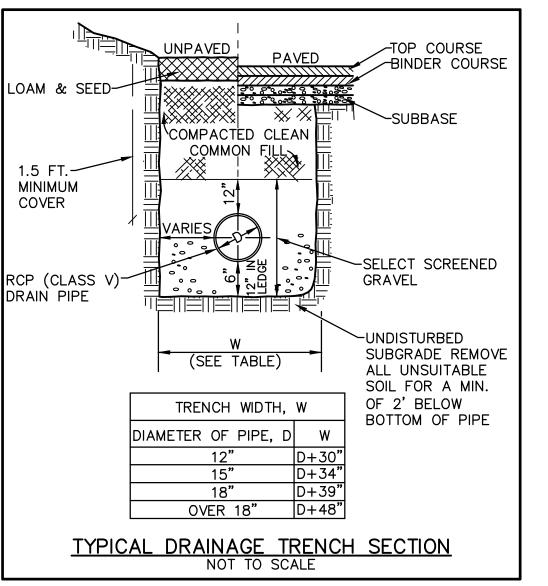




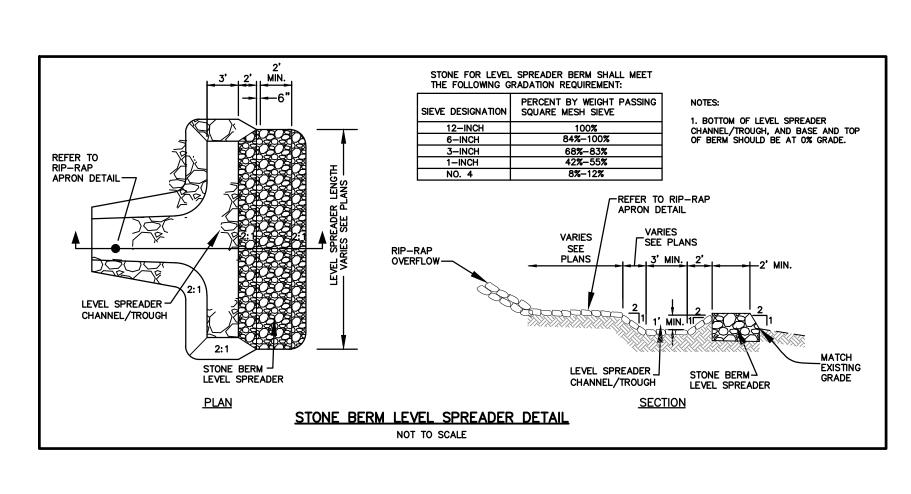








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APPLICANT:

VS UNION SOLAR SMART, LLC

24941 DANA POINT HARBOR

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DETAILS
FOR

UPPER UNION SOLAR PROJECT
JUNE 19, 2023
FRANKLIN, MA

Sheet of 10

JOB NUMBER 3328.00

FILE: 3328-DETAIL-REV1

TEST PIT #1

Estimated Depth to High Groundwater Mottles @74"

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

TEST PIT #2

Estimated Depth to High Groundwater Mottles @ 70"

SOIL LOG							
Depth (in) Soil Horizon/ Soil Texture Soil Color Mottles Other							
Layer (Munsell) (Structure, Stones, Boulders, Consistency, % Gra					(Structure, Stones, Boulders, Consistency, % Gravel)		
0-8	O/A	Sandy Loam	10YR 3/2				
8-32	В	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/	Soil Texture	Soil Color	Mottles	Other		
	Layer		(Munsell)		(Structure, Stones, Boulders, Consistency, % Gravel)		
0-12	O/A	Sandy Loam	10YR 3/2				
12-38	В	Sandy Loam	10YR 5/6				
38-56	Cl	Loamy Sand	2.5Y 5/2				
56-74	C2d	Sandy Loam	2.5Y 5/3	60"			
74-122	C3	Medium	2.5Y 5/4				
		Coarse Sand					

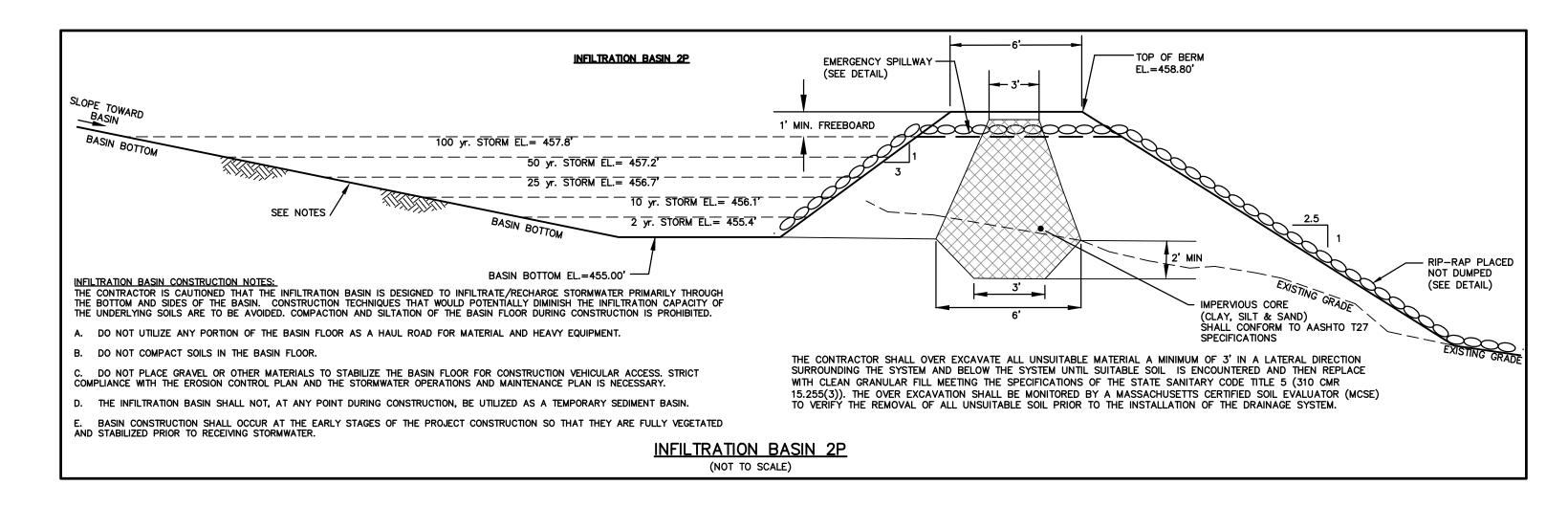
TEST PIT #4
Estimated Depth to High Groundwater Mottles @50"

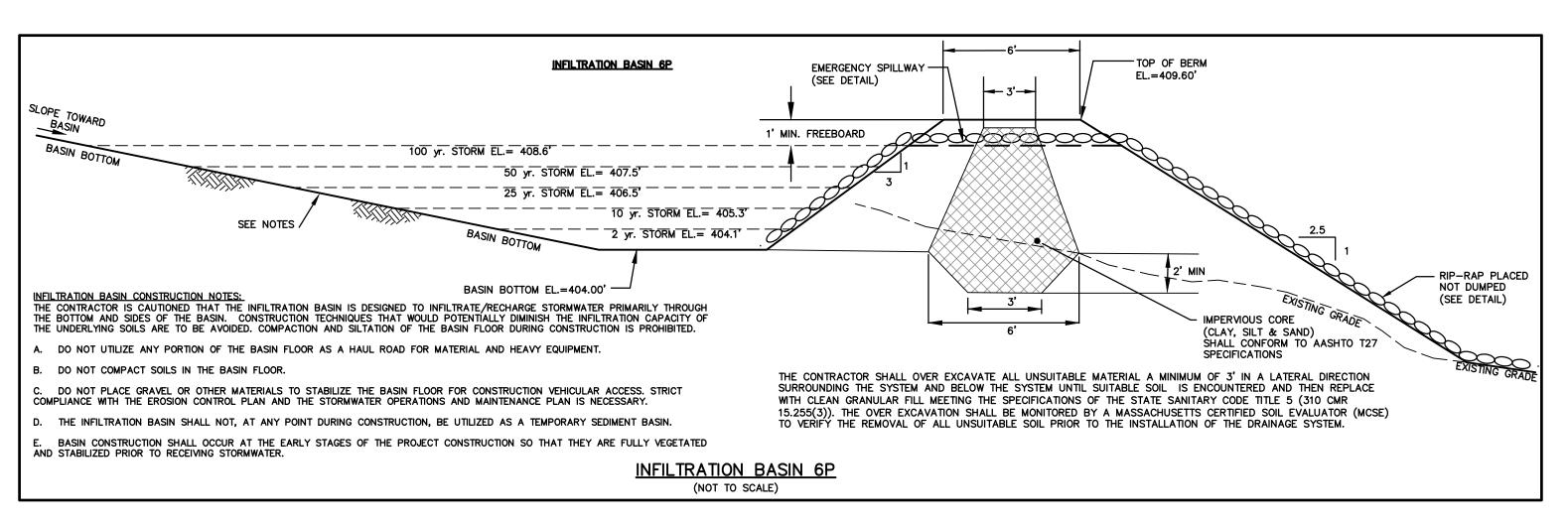
SOIL LOG								
Depth (in)	Soil Horizon/	Soil Texture	Soil Color	Mottles	Other			
	Layer		(Munsell)		(Structure, Stones, Boulders, Consistency, % Gravel)			
0-10	O/A	Sandy Loam	10YR 3/2					
10-32	B	Sandy Loam	10YR 5/8					
32-76	C	Loamy Sand	2.5Y 5/6	50"				

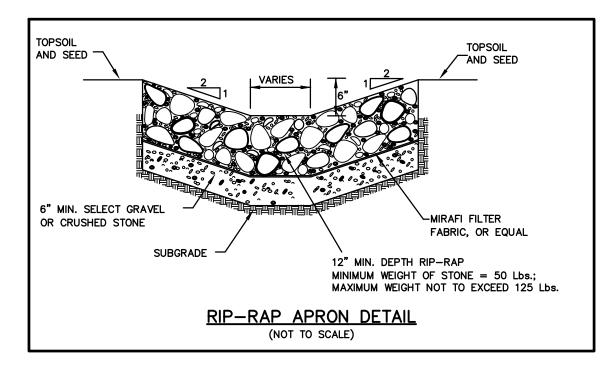
TEST PIT #5

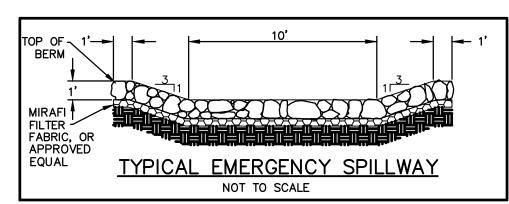
Estimated Depth to High Groundwater Mottles @40"

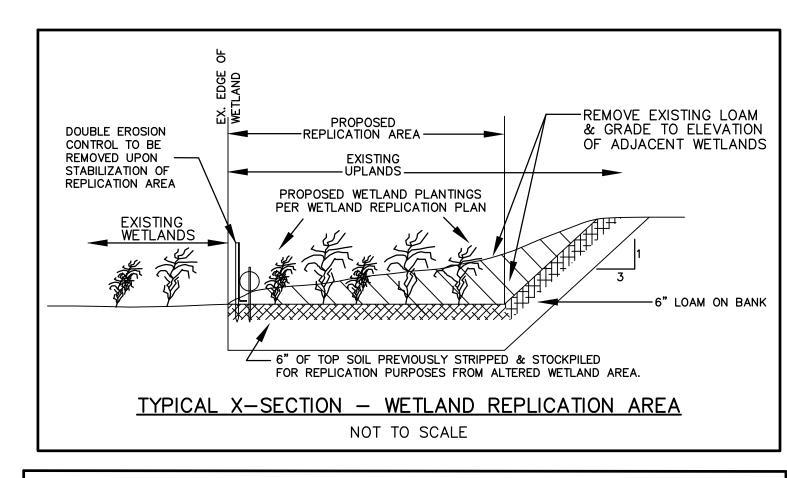
	SOIL LOG								
Depth (in)	Soil Horizon/	Soil Texture	Soil Color	Mottles	Other				
	Layer		(Munsell)		(Structure, Stones, Boulders, Consistency, % Gravel)				
0-8	O/A	Sandy Loam	10YR 3/2						
8-34	В	Sandy Loam	10YR 5/8						
34-84	C	Loamy Sand	2.5Y 5/6	40"	Refusal				

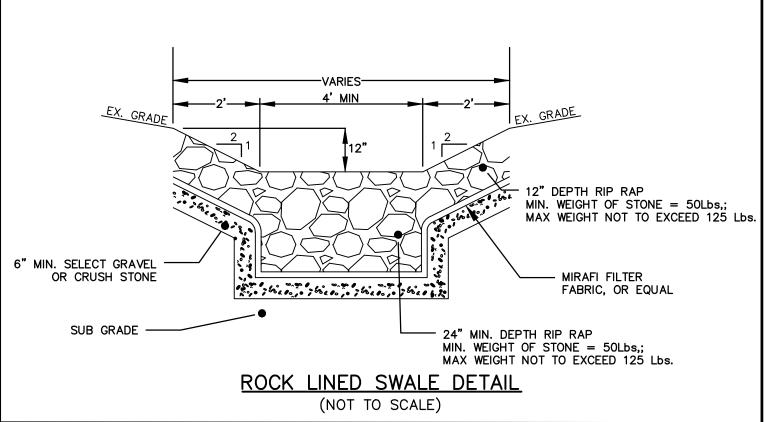














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APPLICANT: VS UNION SOLAR SMART, LLC 24941 DANA POINT HARBOR DANA POINT, CA 92629

DETAILS UPPER UNION SOLAR PROJECT JUNE 19, 2023 FRANKLIN, MA

FILE: 3328-DETAIL-REV1 Sheet 10 | 10 JOB NUMBER 3328.00