# SOLAR FIELDS, LLC PROPOSED 2.0MWAC SOLAR ARRAY

242 MANCHESTER RD (ROUTE 135), BELGRADE, KENNEBEC COUNTY, MAINE

PREPARED FOR:



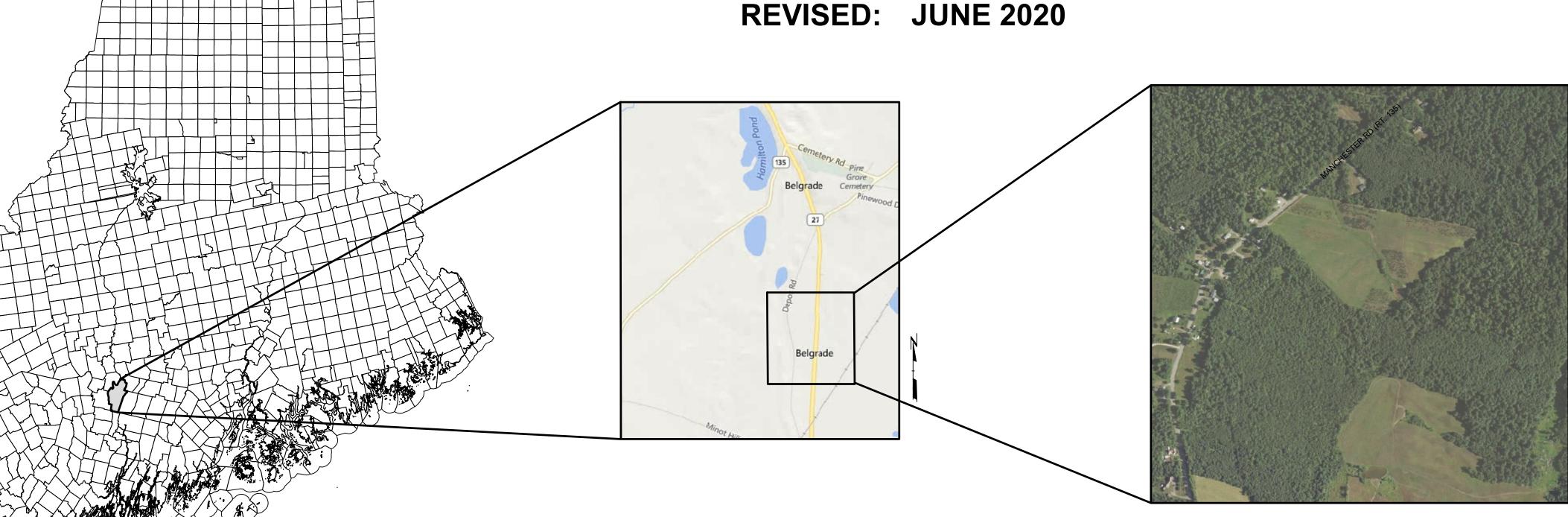
SOLAR FIELDS, LLC 376 WEST ROAD BELGRADE, ME 04917

PREPARED BY: TRC COMPANIES, INC.

**AUGUSTA, ME 04330** 

SITE LOCATOR

DATE: MAY 2020 REVISED: JUNE 2020



**BELGRADE** 

APPROVED: TOWN OF BELGRADE PLANNING BOARD			
SIGNATURE	DATE	APPROVED	

SHEET INDEX				
SHEET NUMBER SHEET TITLE				
G-1	CIVIL COVER SHEET			
G-2	GENERAL NOTES & LEGEND			
G-3	EROSION CONTROL NOTES & DETAILS			
C-1	EXISTING CONDITIONS PLAN			
C-2	SITE GRADING & DRAINAGE PLAN			
C-3	CIVIL CONSTRUCTION DETAILS			
C-4	ELECTRICAL DETAILS			
C-5	LANDSCAPING NOTES & DETAILS			
SW-1	PRE-DEVELOPMENT DRAINAGE PLAN			
SW-2	POST-DEVELOPMENT DRAINAGE PLAN			



#### **GENERAL NOTES**

- THE PROJECT HORIZONTAL COORDINATES SYSTEM IS BASED ON NAD83 MAINE STATE PLANE (US SURVEY FEET, WESTERN ZONE, ME83-WF). ELEVATIONS ARE BASED ON NAVD88 (US SURVEY FEET).
- TOPOGRAPHIC SURVEY INFORMATION DATA IS COMPILED FROM AERIAL MAPPING (LIDAR) PROVIDED BY THE MAINE OFFICE OF GIS AND SHOULD BE CONSIDERED TO BE APPROXIMATE.
- PROJECT PROPERTY BOUNDARIES ARE BASED ON INFORMATION PROVIDED IN A SURVEY PLAN BY GARBACICK SURVEYORS OF AUGUSTA, ME AS WELL AS TOWN OF BELGRADE TAX MAPS.
- EXISTING UTILITIES ARE APPROXIMATE AND SHOULD BE VERIFIED BY CONTRACTOR. DIGSAFE SHALL BE NOTIFIED A MINIMUM OF 72-HOURS PRIOR TO COMMENCING ANY EXCAVATION.
- 5. THIS IS A PRELIMINARY DESIGN PLAN. FINAL DESIGN SHALL BE MODIFIED BY CONTRACTOR TO MATCH FINAL ELECTRICAL INTERCONNECTION STUDIES, EQUIPMENT PURCHASED, AND POSSIBLE PERMIT CONSTRAINTS REVEALED DURING PROJECT'S
- 6. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE PROJECT GEOTECHNICAL REPORT, AND ANY OTHER APPLICABLE TECHNICAL REPORTS.
- THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE
- ). CONSTRUCTION SHALL NOT OCCUR IN ANY PUBLIC RIGHTS OF WAY, PUBLIC OR PRIVATE EASEMENTS, BEYOND THE LIMITS OF DISTURBANCE, OR OUTSIDE THE PROPERTY LIMITS WITHOUT NECESSARY PERMITS. ANY PUBLIC OR PRIVATE PROPERTY OR
- 10. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT OF WAY. OVERNIGHT PARKING OF
- 11. ALL PROPERTY CORNERS OR MONUMENTS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S
- 12. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONTROLLING THE POLLUTION OF
- 13. CONTRACTOR TO ENSURE ALL WORK PERFORMED IS IN ACCORDANCE WITH EXISTING PROJECT PERMITS, STUDIES, AND REPORTS
- 14. IT IS THE INTENT OF THESE PLANS THAT THE CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE THE IDENTIFIED PROJECT
- 15. IT IS THE INTENT OF THESE PLANS THAT THE CONTRACTOR AVOID "FILLING" WETLANDS AT ALL COSTS. CONTRACTOR TO AVOID THE
- 16.  $\,$  WHENEVER PRACTICABLE, NO DISTURBANCE ACTIVITIES SHOULD TAKE PLACE WITHIN 50 FEET OF ANY PROTECTED NATURAL RESOURCE. IF DISTURBANCE ACTIVITIES SHOULD TAKE PLACE UPGRADIENT TO AND BETWEEN 30 FEET AND 50 FEET OF ANY PROTECTED NATURAL RESOURCE PERIMETER EROSION CONTROLS MUST BE DOUBLED. IF DISTURBANCE ACTIVITIES TAKE PLACE
- 18. CONTRACTOR SHALL FIELD FIT ALL PROPOSED CULVERT INVERTS TO PROVIDE POSITIVE DRAINAGE IN THE DIRECTION OF EXISTING SLOPES. ALL CULVERTS TO BE INSTALLED AT ADEQUATE DEPTHS AND TO DAYLIGHT. INLETS AND OUTLETS OF ALL CULVERTS TO BE
- 19. EXISTING ACCESS ROADS TO BE MAINTAINED SHALL BE PROOF ROLLED, SMOOTHED, AND RESURFACED AS NECESSARY TO
- 20. THE CONTRACTOR SHALL SECURE PERMITS FROM THE STATE AND TOWN OF BELGRADE AS NECESSARY BEFORE DRIVING CONSTRUCTION EQUIPMENT OVER AND ACROSS STATE AND TOWN MAINTAINED ROADS.
- 21. ALL WORK IN THE PUBLIC RIGHTS OF WAY SHALL CONFORM WITH THE MAINE DEPARTMENT OF TRANSPORTATION "STANDARD
- 22. WETLANDS AND NATURAL RESOURCES WERE DELINEATED BY BURMAN LAND & TREE COMPANY, LLC IN APRIL OF 2020.

#### **HOUSEKEEPING NOTES**

- CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN ACCORDANCE WITH THE FOLLOWING PERFORMANCE STANDARDS:
- SPILL PREVENTION: CONTROLS SHALL BE IN PLACE TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS USED EXPOSURE OF MATERIALS TO STORMWATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING
- GROUNDWATER PROTECTION: DURING CONSTRUCTION, THE CONTRACTOR MAY NOT STORE OR HANDLE LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER IN AREAS OF THE PROJECT SITES DRAINING TO AN INFILTRATION AREA OR WITHIN 100 FEET OF A CRITICAL RESOURCE AREA OR STREAM. DIKES. BERMS. SUMPS. AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORING AND HANDLING LIQUID HAZARDOUS MATERIALS.
- FUGITIVE SEDIMENT AND DUST: CONTRACTOR SHALL TAKE ALL NECESSARY ACTIONS TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OPERATIONS DURING DRY MONTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS ROADS ONCE A WEEK OR MORE FREQUENTLY AS NEEDED WITH A WATER ADDITIVE. OIL MAY NOT BE USED FOR DUST CONTROL. CONTRACTOR SHALL MONITOR VEHICLES ENTERING AND EXITING THE PROJECT SITE FOR EVIDENCE OF TRACKING MUD ONTO PUBLIC OR PRIVATE ROADWAYS OUTSIDE THE WORK AREA. IF NECESSARY, CONTRACTOR SHALL PROVIDE MEANS FOR SWEEPING AND CLEANING ROAD AREAS EXPERIENCING TRACKING. IF OFF-SITE TRACKING OCCURS ON PUBLIC ROADS, THEY SHOULD BE SWEPT IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. DURING THE MUD SEASON IT MAY BE NECESSARY TO INCREASE THE SIZE OF STABILIZED CONSTRUCTION ENTRANCES OR PROVIDE A WHEEL WASHING STATION.
- DEBRIS AND OTHER MATERIALS: CONTRACTOR SHALL MANAGE ALL LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
- TRENCH OR FOUNDATION DEWATERING: TRENCH DEWATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, SUMPS, BASINS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL REMOVE COLLECTED WATER FROM THE PONDED AREAS, EITHER THROUGH GRAVITY OR PUMPING, IN A MANNER THAT SPREADS IT THROUGH NATURAL WOODED BUFFERS OR TO AREAS THAT ARE SPECIFICALLY PROJECT SITES. OTHER MEASURES OR METHODS MAY BE UTILIZED AS REVIEWED AND APPROVED BY THE ENGINEER AND, IF
- NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST, THEY MUST BE IDENTIFIED AND STEPS SHALL BE TAKEN TO ENSURE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENTS OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE: DISCHARGES FROM FIREFIGHTING ACTIVITY, FIRE HYDRANT FLUSHING, VEHICLE WASHING IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES, DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS AND APPENDIX C(3) OF CHAPTER 500, ROUTINE EXTERNAL BUILDING WASHDOWN (EXCLUDING PAINT REMOVAL AND USE OF DETERGENTS), PAVEMENT WASHWATER (EXCLUDING AREAS OF SPILLS OR LEAKS OF TOXIC/HAZARDOUS MATERIALS AND USE OF DETERGENTS), UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE, UNCONTAMINATED GROUNDWATER OR SPRING WATER, FOUNDATION OR FOOTING DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED, UNCONTAMINATED EXCAVATION DEWATERING PER APPENDIX C(5) OF CHAPTER 500,
- <u>UNAUTHORIZED NON-STORMWATER DISCHARGES:</u> THE CONTRACTOR SHALL IDENTIFY AND PREVENT CONTAMINATION BY UNAUTHORIZED NON-STORMWATER DISCHARGES. UNAUTHORIZED STORMWATER DISCHARGES INCLUDE, BUT ARE NOT LIMITED TO, WASTEWATER FROM CONCRETE WASHOUT, FUELS OR HAZARDOUS SUBSTANCES, AND DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING.
  - ADDITIONAL REQUIREMENTS: COMPLETION OF THE WORK WILL REQUIRE FREQUENT ACCESS TO VARIOUS PORTIONS OF THE PROJECT AREA FROM STATE AND LOCAL ROADWAYS. CONTRACTOR SHALL MONITOR PUBLIC ROADWAYS AND SHALL CLEAN PAVEMENT BY MEANS NECESSARY IN THE EVENT THAT SEDIMENT OR TRACKING IS OBSERVED. SIGNAGE SHALL BE POSTED AT INTERSECTIONS OF PROJECT ACCESS ROADS AND PUBLIC WAYS, STATING COMPANY NAME AND 24-HOUR CONTACT PHONE

#### LEGEND

SUBJECT PROPERTY BOUNDARY ——— – – —— APPROXIMATE ABUTTING PROPERTY BOUNDARY ——— – ——— APPROXIMATE RIGHT-OF-WAY EXISTING UNPAVED ROAD

EXISTING FENCE ——— w ——— w EXISTING WATERLINE

**EXISTING BUILDING** --- (390) --- EXISTING MAJOR CONTOUR --- (388)— — EXISTING MINOR CONTOUR

EXISTING SPOT ELEVATION EXISTING TREES AND/OR BRUSH

DELINEATED WETLAND EXISTING POND

— · · · · — DELINEATED STREAM NON-JURISDICTIONAL DRAINAGE LIMIT OF FEMA 100YR 24HR FLOOD ZONE

EXISTING CULVERT - - OHP - - EXISTING OVERHEAD ELECTRIC EXISTING UTILITY POLE

LOD — LIMITS OF DISTURBANCE PROPOSED CULVERT PROPOSED ACCESS ROAD 

PROPOSED MAJOR CONTOUR . PROPOSED TREE LINE NRCS SOILS DATA

—— SF —— SF —— PROPOSED SILT FENCE PROPOSED OVERHEAD ELECTRIC LINE AND POLE **—————** 75' STREAM BUFFER

\_\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ 25' STREAM BUFFER

VEGETATED WATER QUALITY BUFFER

#### **ZONING REQUIREMENTS**

_									
				DIMENSIC	NAL STANE	DARDS			
	DISTRICT	MIN. FRONT Y	ARD SETBACK	MIN. SIDE YA	RD SETBACK	MIN. REAR YA	ARD SETBACK	BUILDING M	IAX. HEIGHT
		REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
	NONE	NA	118'	NA	27'	NA	83'	NA	20'

#### SITE SPECIFIC SOILS TABLE

ID	NAME	SLOPE RANGE	TEXTURE	HYDROLOGIC SOIL GROUP
HfC	HARTLAND	8 - 15%	SANDY LOAM	В
HfD	HARTLAND	15 - 25%	SANDY LOAM	В
PdC2	PACTON-CHARLTON	8 - 15%	SANDY LOAM	C/D
RdA	RIDGEBURY	0 - 5%	SANDY LOAM	C/D
SkB	SCIO	3 - 8%	SANDY LOAM	С
SkC2	SCIO	8 - 15%	SANDY LOAM	С
WrB	WOODBRIDGE	3 - 8%	SANDY LOAM	C/D

#### PROJECT SCHEDULE

SPECIFICS OF HOW WORK IS TO BE COMPLETED SHALL ALSO BE BASED ON ENVIRONMENTAL CONSIDERATIONS ASSOCIATED WITH SEASONAL CHANGES. THE FOLLOWING DATES ARE PROVIDED TO ESTABLISH A GENERAL GUIDELINE FOR THESE SEASONS:

NOVEMBER 1 TO MARCH 19 - WINTER: - MUD SEASON: MARCH 20 TO APRIL 30 - SPRING: MAY 1 TO JUNE 21

- SUMMER: JUNE 22 TO SEPTEMBER 21 SEPTEMBER 22 TO OCTOBER 31 - FALL:

#### FERTILIZER AND LIMESTONE REQUIREMENTS

IN GENERAL, FERTILIZER AND LIME APPLICATION RATES WILL FOLLOW THE GUIDELINES IDENTIFIED BELOW UNLESS SITE SPECIFIC SOIL TESTS IDENTIFY THE NEED FOR ALTERNATIVE FERTILIZER/LIME APPLICATION RATES. FERTILIZER WILL BE APPLIED TO UPLAND AREAS PRIOR TO SEEDING AT A RATE OF 800 POUNDS PER ACRE USING 10-0-0 (N-P205-K20) OR EQUIVALENT. GROUND LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) WILL BE APPLIED AT A RATE OF 3 TONS PER ACRE. AN EQUIVALENT MIXTURE OF FERTILIZER AND LIME MAY BE APPLIED USING THE HYDROSEEDING METHOD. NO LIME OR FERTILIZER WILL BE APPLIED TO WETLANDS.

#### MULCH ANCHORING REQUIREMENTS

ON SLOPES GREATER THAN 3 PERCENT, STRAW MULCH WILL BE FIRMLY ANCHORED INTO THE SOIL UTILIZING ONE OF THE FOLLOWING

-CRIMPING WITH A STRAIGHT OR NOTCHED MULCH CRIMPING TOOL (FARM DISCS WILL NOT BE ALLOWED); -TRACK WALKING WITH DEEP-CLEATED EQUIPMENT OPERATING UP AND DOWN THE SLOPE (MULCH CRIMPED PERPENDICULAR TO THE SLOPE) ON SLOPES <25 PERCENT;

-APPLICATION OF 500 LB./ACRE OF WOOD FIBER MULCH OVER STRAW/HAY MULCH; AND

-COMMERCIALLY AVAILABLE TACKIFIERS (EXCEPT WITHIN 100 FEET OF WATERBODIES OR WETLANDS).

#### PHOSPHORUS CONTROL PLAN NOTES

LAKE WATERSHED: MESSALONSKEE LAKE WATERSHED PER ACRE PHOSPHORUS BUDGET: 0.068 LBS P/ACRE/YEAR OJECT PHOSPHORUS BUDGET: 1.646 LBS P/ACRE/YEAR PROJECT PHOSPHORUS EXPORT: 0.589 LBS P/YEAR

#### SEED AND MULCH SPECIFICATIONS

SEED MIX SPECIFICATIONS				
SEED MIX NAME <sup>3</sup>	SEED MIX COMPONENTS	LB./ACRE <sup>1</sup>		
TEMPORARY SEED MIX	ANNUAL RYEGRASS	40		
PERMANENT SEED MIXES				
UPLANDS	NEW ENGLAND LOGGING ROAD MIX (OR APPROVED EQUAL)	20		
WOODCHIP APPLICATION SEED MIX	NEW ENGLAND LOGGING ROAD MIX (OR APPROVED EQUAL)	20		
SUPPLEMENTAL WINTER SEED MIX <sup>2</sup>	WINTER RYEGRASS	120		

1. INCREASE SEEDING RATES 10% WHEN HYDROSEEDING

2. WINTER RYE WILL BE ADDED TO CONSERVATION MIX AT A RATE OF 120 LB./ACRE BETWEEN 3. PERMANENT SEED MIXES TO CONSIST OF NATIVE GRASSES, RUSHES, FORBS, AND WILDFLOWERS

SUMMARY OF TEMPORARY AND PERMANENT MULCH APPLICATION REQUIREMENTS MULCH TYPE<sup>2</sup> APPLICATION RATES CONDITION TIMING **TEMPORARY INACTIVE AREAS** IF NO ACTIVITY IN EXPOSED AREAS FOR 7 DAYS, OR 2 TONS/ACRE PRIOR TO A STORM EVENT OR WOOD FIBER MULCH 1 TON/ACRE OR EROSION CONTROL MIX THICK OVER AREA ALL DISTURBED AREAS OF THE APPLY MULCH TO ALL EXPOSED AREAS IF NO ACTIVITY OCCURS WITHIN 30 DAYS. APPLY MULCH AND TEMPORARY CONSTRUCTION WORKSPACE STRAW MULCH OR 2 TONS/ACRE SEEDING SOONER WHEN IT CAN BE ANTICIPATED THAT ACTIVITY IS NOT GOING TO OCCUR WITHIN 30 DAYS. WOOD FIBER MULCH 1 TON/ACRE<sup>3</sup> ALL WORK AREAS EXPOSED ARE TO NOVEMBER 1 - APRIL 15 STRAW MULCH OR 4 TONS/ACRE BE MULCHED DAILY EACH TIME SOIL IS DISTURBED<sup>5</sup> 2 TONS/ACRE WOOD FIBER MULCH PERMANENT PERMANENT GRASS AND/OR LEGUME ON ALL EXPOSED AREAS AFTER CRIMPED STRAW SEEDING TO STABILIZE THE SOIL SEEDING COVERED BY STRAW MULCH 2 TONS/ACRE MULCH SURFACE ON ALL AREAS THAT HAVE BEEN RESTORED TO FINAL GRADE. THIS OR PAPER MULCH 1500 LB./ACRE <sup>4</sup> DOES NOT APPLY TO AREAS STABILIZED BY OTHER MEANS SUCH AS JUTE OR WOOD FIBER 1 TON/ACRE MATTING OR PERMANENT EROSION CONTROL MIX. WOOD CHIP APPLICATION AREAS<sup>6</sup> PERMANENT GRASS AND/OR LEGUME CRIMPED STRAW SEEDING COVERED BY STRAW MULCH 2 TONS/ACRE ON ALL AREAS THAT HAVE BEEN RESTORED TO FINAL GRADE. THIS OR PAPER MULCH 1500 LB./ACRE 4 DOES NOT APPLY TO AREAS STABILIZED BY OTHER MEANS SUCH AS JUTE OR WOOD FIBER 1 TON/ACRE MATTING OR PERMANENT EROSION

1. IN ALL CASES, SUFFICIENT MULCH SHALL BE APPLIED SUCH THAT NO SOIL IS VISIBLE THROUGH THE MULCH.

CONTROL MIX.

2. DOUBLE RATE OF WOOD FIBER MULCH WHEN USED IN OR ADJACENT TO CRITICAL AREAS. INCREASE MULCH RATE BY HALF UNDER SOLAR ARRAY DRIP EDGE. 3. STRAW, HAY, OR HYDROMULCH (WOOD FIBER OR PAPER MULCH AS APPROPRIATE) SHALL PROVIDE MINIMUM 90 PERCENT GROUND COVERAGE. 4. PAPER MULCH IS ACCEPTABLE FOR USE DURING THE GROWING SEASON. ON SLOPES >30 PERCENT AND IN AREAS WHERE VEGETATION HAS NOT ESTABLISHED WELL, ADDITIONAL HAY MULCH WILL BE ADDED AS A WINTERIZING MEASURE.

5. MULCH MAY NOT BE SPREAD ON TOP OF SNOW. 6. WOODCHIPS SHALL BE APPLIED AT A MAXIMUM THICKNESS OF 4-INCHES AND ONLY IN UPLAND AREAS.

1. WEATHER CONDITIONS PERMITTING.

3. LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF 4 INCHES.

4. TOP DRESS WITH 4 to 6 INCHES LOAM, AS NEEDED.

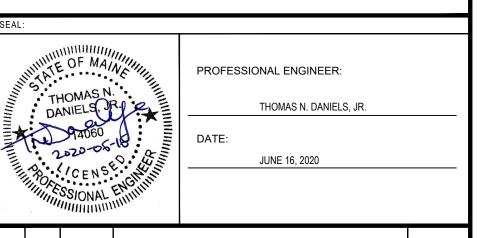
CONDITION	TIMING <sup>1,2</sup>	SEED MIX	
TEMPORARY SEEDING <sup>3</sup>	TEMPORARY SEED BETWEEN APRIL 15 AND OCTOBER 1 ONLY. DISTURBED AREAS OR SOIL STOCKPILES WILL BE SEEDED IMMEDIATELY IF FURTHER DISTURBANCE IS NOT EXPECTED FOR 30 DAYS OR MORE.	ANNUAL RYEGRASS	
PERMANENT SEEDING <sup>3,4</sup>			
JPLAND PORTIONS OF THE CONSTRUCTION AREA	DISTURBED AREA WILL BE SEEDED WITHIN 7 DAYS OF FINAL GRADING.	UPLAND MIX	
SLOPES > 3:1	DISTURBED AREA WILL BE SEEDED IMMEDIATELY AFTER SEEDBED PREPARATION.	UPLAND MIX	
AS DIRECTED	DISTURBED AREAS DESIGNATED FOR STABILIZATION WITH THE POLLINATOR MIX SHALL BE SEEDED WITHIN 7 DAYS OF FINAL GRADING.	POLLINATOR SEED MIX	
WOODCHIP APPLICATION AREAS	DISTURBED AREA WILL BE SEEDED WITHIN 7 DAYS OF FINAL GRADING.	WOODCHIP APPLICATION SEED MIX	
WINTER DORMANT SEEDING	DORMANT SEED BETWEEN OCTOBER 1 AND APRIL 15 ONLY. NO SEEDING WILL OCCUR IF SNOW DEPTHS EXCEED 1 INCH.	CONSERVATION MIX PLUS WINTER RYEGRASS	

2. AREAS THAT DO NOT SUCCESSFULLY REVEGETATE WITHIN APPROPRIATE PERIOD OF TIME WILL BE RESEEDED AS NECESSARY.

PERMITTING

NOT FOR CONSTRUCTION





02 TRC 6/16/20 REVISED PER TOWN COMMENTS 01 TRC 5/12/20 ISSUED FOR LOCAL PERMITTING NO. BY DATE APP'D.

SOLAR FIELDS LLC PROPOSED 2MW SOLAR ARRAY 242 MANCHESTER RD, BELGRADE, MAINE

**GENERAL NOTES & LEGEND** 

DRAWN BY: TRC/ARD PROJ. NO.: 389694 G-2

14 Gabriel Drive Augusta, ME 04330 Phone: 207.620.3800 www.trcsolutions.com

389694-G-SHEETS.dwg

WHERE INDICATED, STATE AND/OR LOCAL STANDARD SPECIFICATIONS SHALL APPLY.

CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING STATE AND FEDERAL REQUIREMENTS WITH RESPECT TO STORMWATER THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN OR ADJACENT TO THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE

IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE COST OF

CONSTRUCTION VEHICLES ON PRIVATE PROPERTY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF MAINE.

PROVIDED IN THE CONTRACT DOCUMENTS INCLUDING STATE STORMWATER MANAGEMENT PERMIT AND LOCAL ORDINANCE.

DELINEATED WETLAND AREAS AND NATURAL RESOURCES ONSITE. UPGRADIENT TO AND LESS THAN 30 FEET FROM ANY PROTECTED NATURAL RESOURCE, PERIMETER EROSION CONTROLS MUST BE DOUBLED AND DISTURBED AREAS MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 7 DAYS. ALL AREAS WITHIN 75

FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIERS NOVEMBER 1

17. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THE PROJECT.

STABILIZED WITH RIP RAP IN ACCORDANCE WITH THE SITE GRADING & DRAINAGE PLAN.

PROVIDE AN ACCEPTABLE SURFACE.

AND STORED ONSITE. APPROPRIATE CONTROLS INCLUDE, BUT ARE NOT LIMITED TO, PROPER STORAGE PRACTICES THAT MINIMIZE

CHEMICALS EXPOSED TO STORMWATER TO PREVENT MATERIALS FROM BECOMING A SOURCE OF POLLUTION CONTRACTOR SHALL

DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE (E.G. COFFERDAM SEDIMENT BASIN). THE CONTRACTOR SHALL AVOID PRACTICES THAT ALLOW SEDIMENT LADEN WATER FROM DEWATERING TO FLOW OVER DISTURBED AREAS OF THE NECESSARY. THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

AUTHORIZED NON-STORMWATER DISCHARGES: THE CONTRACTOR SHALL IDENTIFY AND PREVENT CONTAMINATION BY POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING, AND LANDSCAPE IRRIGATION.

#### **EROSION CONTROL NOTES**

PROJECT DESCRIPTION

THE PROJECT INVOLVES THE CONSTRUCTION OF A GROUND-MOUNTED PHOTOVOLTAIC SOLAR MODULE SYSTEM AND ALL RELATED ACCESS ROADS, UTILITIES, SITE PREPARATION, CLEARING & GRUBBING, EROSION & SEDIMENTATION CONTROL MEASURES, AND

#### **CONSTRUCTION SEQUENCE**

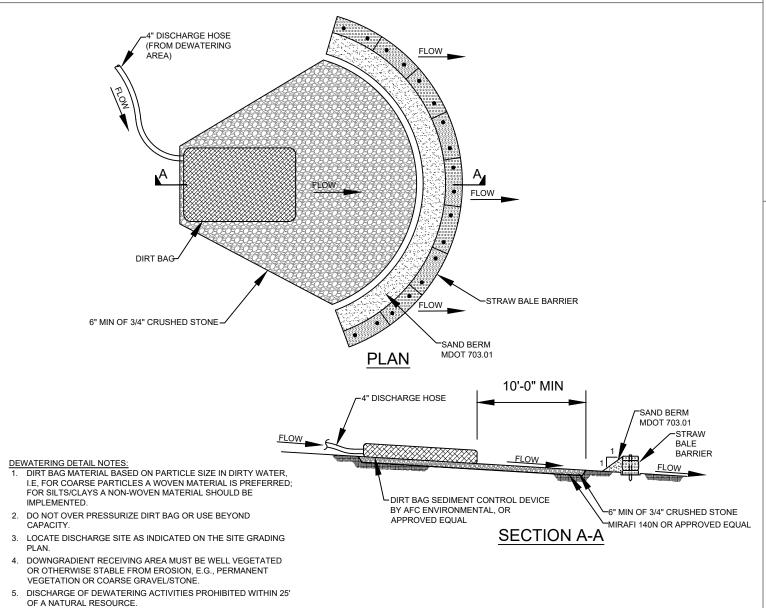
TEMPORARY ACCESS ROADS

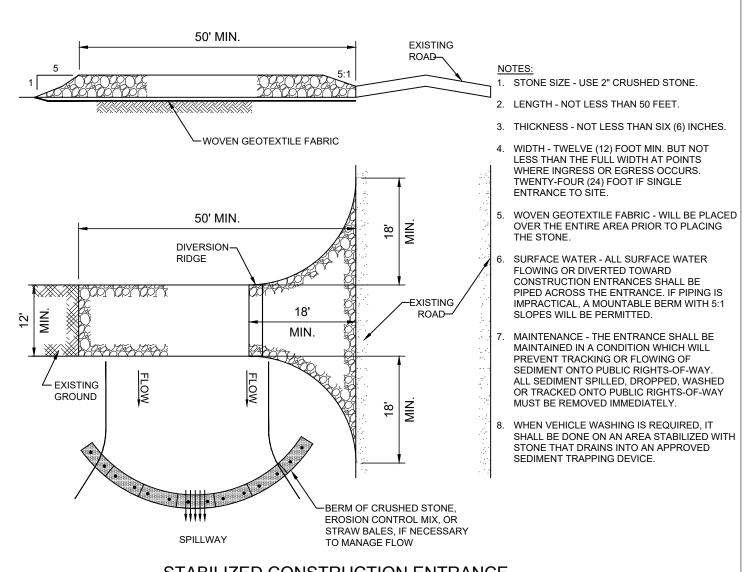
- ALL CONTRACTORS ENGAGED IN SOIL DISTURBANCE SHALL BE CERTIFIED IN BASIC AND ADVANCED EROSION CONTROL PRACTICES BY MDEP UNLESS OTHERWISE APPROVED BY THE OWNER, ENGINEER, AND TOWN OF BELGRADE
- ESTABLISH CONSTRUCTION WORKSPACE LIMITS; IDENTIFY AND MARK SENSITIVE RECEPTORS INCLUDING NATURAL RESOURCES AND DOWNGRADIENT DRAINAGE INFRASTRUCTURE.
- INSTALLATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES AND ASSOCIATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS" (REVISED 2014).
- PRIOR TO USAGE, CONSTRUCT AND STABILIZE THE CONSTRUCTION ENTRANCE IN THE LOCATIONS INDICATED ON THE EROSION CONTROL PLAN SHEET
- CLEAR TIMBER, BRUSH, AND COMPLETE TREE REMOVAL; GRUBBING SHALL NOT BE COMPLETED UNTIL JUST PRIOR TO PRELIMINARY GRADING AND ESTABLISHMENT AND STABILIZATION OF TEMPORARY OR PERMANENT DRAINAGE CONVEYANCES.
- INSTALL AND MAINTAIN PERIMETER SEDIMENT BARRIERS SUCH AS SILT FENCING AND/OTHER APPROVED EROSION CONTROL BARRIERS ALONG THE DOWNHILL LIMIT OF DISTURBANCE AS SHOWN ON THE DRAWINGS. SEDIMENT BARRIER LOCATIONS MAY BE ADJUSTED IN THE FIELD BASED ON ACTUAL SITE CONDITIONS AS DEEMED NECESSARY TO ENSURE PROPER FUNCTION. WHERE SILT FENCE CANNOT BE TOED-IN PROPERLY DUE TO TREE ROOTS, ROCKS, OR FROZEN GROUND, HAY BALES OR AN EROSION CONTROL MIX BERM MAY BE SUBSTITUTED. PERIMETER SEDIMENT BARRIERS SHALL BE INSTALLED AS SOON AS POSSIBLE BUT MAY FOLLOW INITIAL SITE PREPARATION. EROSION OR SEDIMENTATION ISSUES DEVELOPING DURING INITIAL SITE PREPARATION SHALL BE TEMPORARILY STABILIZED AS NECESSARY
- STABILIZE PERMANENT ACCESS ROAD SURFACES, PARKING AREAS, AND EQUIPMENT STORAGE AND LAYDOWN AREAS WITH MATTING, CRUSHED STONE, OR GRAVEL SUBBASE AS NECESSARY TO MINIMIZE RUTTING AND AVOID PONDING OF STORMWATER.
- CONCURRENT WITH INITIATION OF SITE GRADING, CONSTRUCT AND STABILIZE TEMPORARY DRAINAGE SWALES, DIVERSION BERMS, CHECK DAMS, AND CULVERTS WITH TEMPORARY INLET AND OUTLET PROTECTION TO MINIMIZE SEDIMENT IN SITE RUNOFF DURING CONSTRUCTION. DEWATERING SHALL BE IN ACCORDANCE WITH THE DEWATERING NOTES.
- INSTALL PROPERLY SPACED STONE CHECK DAMS IN ANY SECTION OF DITCH WITHIN 24-HOURS OF FORMING, SHAPING, OR ROUGH
- 0. MINIMIZE THE AMOUNT OF DISTURBANCE AT ANY ONE TIME BY STAGING CONSTRUCTION AS MUCH AS PRACTICAL FOR EFFICIENT CONSTRUCTION OF THE FACILITY. NATURAL VEGETATIVE BUFFERS SHOULD BE LEFT IN PLACE WHERE FEASIBLE TO AID IN SEDIMENT RETENTION AND REDUCE THE POTENTIAL FOR EROSION.
- . STABILIZE ANY NEWLY GRADED SLOPE GREATER THAN EIGHT PERCENT AND ANY SECTION OF NEWLY CONSTRUCTED DITCH USING ANCHORED EROSION CONTROL BLANKETS OR OTHER APPROVED MULCHING TECHNIQUES WITHIN 24-HOURS. ALL VEGETATED DITCHES THAT HAVE NOT BEEN STABILIZED BY NOVEMBER 1, OR WILL BE WORKED ON BETWEEN NOVEMBER 1 AND APRIL 15, MUST BE STABILIZED WITH STONE LINING BACKED BY GRAVEL BED OR GEOTEXTILE AS SPECIFIED BY THE ENGINEER.
- 2. DUST CONTROL METHODS SHALL BE EMPLOYED AFTER GRADING AND PRIOR TO FINAL STABILIZATION TO PREVENT THE BLOWING AND MOVEMENT OF NUISANCE DUST THROUGH THE APPLICATION OF WATER AND/OR CALCIUM CHLORIDE.
- 13. APPLY TEMPORARY SEED AND MULCH TO EXPOSED AREAS WHERE ACTIVITY IS NOT ANTICIPATED FOR 30-DAYS/ TEMPORARILY MULCH ANY EXPOSED AREAS WITHIN 100-FEET OF A WETLAND OR NATURAL RESOURCE WHERE WORK IS NOT ANTICIPATED OR HAS
- 4. REMOVE EXCESS SPOILS FROM THE SITE THAT WILL NOT BE USED FOR THE FINAL DESIGN AND STABILIZATION. STOCKPILED SOILS THAT REMAIN IN PLACE FOR 48-HOURS OR MORE SHALL BE CONTAINED WITH SEDIMENT BARRIERS. THE SEDIMENT BARRIERS SHALL BE REINFORCED TO HANDLE A SIGNIFICANT RAIN EVENT AND THE POTENTIAL SLUMPING OF THE PILE. BETWEEN APRIL 15 AND OCTOBER 1, APPLY TEMPORARY SEED AND MULCH TO A STOCKPILE THAT IS NOT ANTICIPATED TO BE DISTURBED WITHIN 30-DAYS. APPLY ANCHORED MULCH DAILY AND/OR AS NEEDED DURING WINTER CONSTRUCTION.
- 5. INSPECT AND REPAIR EROSION CONTROL MEASURES DAILY IN AREAS OF ACTIVE CONSTRUCTION; OTHERWISE WEEKLY AND AFTER A RAINFALL EVENT OF 0.5-INCHES OR GREATER WITHIN A 24-HOUR PERIOD. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES % OF THE HEIGHT OF THE BARRIER
- 16. MONITOR PUBLIC ROADS FOR SIGNS OF TRACKING OR SPILLING OF SPOIL MATERIAL AND CLEAN-UP AS NECESSARY.
- 17. COMPLETE FINAL GRADING AND STABILIZATION OF EARTHEN STRUCTURES SUCH AS DIVERSION BERMS, LEVEL SPREADERS, AND SWALES THAT WILL CONTROL POST-CONSTRUCTION RUNOFF.
- 18. FINISH GRADE AND REPLACE TOPSOIL OR LOAM IN DISTURBED AREAS. SEED AND MULCH DISTURBED AREAS WITHIN 6 DAYS OF FINAL GRADING. BETWEEN NOVEMBER 1 AND APRIL 15, STABILIZE AREAS THAT ARE FINAL GRADED AT THE END OF EACH DAY.
- 19. MAINTAIN ALL TEMPORARY EROSION CONTROLS AND SEDIMENT BARRIERS UNTIL VEGETATION HAS BEEN ESTABLISHED OVER 90% OF THE AREA TO BE REVEGETATED. RESEED SPARSELY VEGETATED AREAS AS NECESSARY
- 20. REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES ONCE THE SITE IS PERMANENTLY STABILIZED

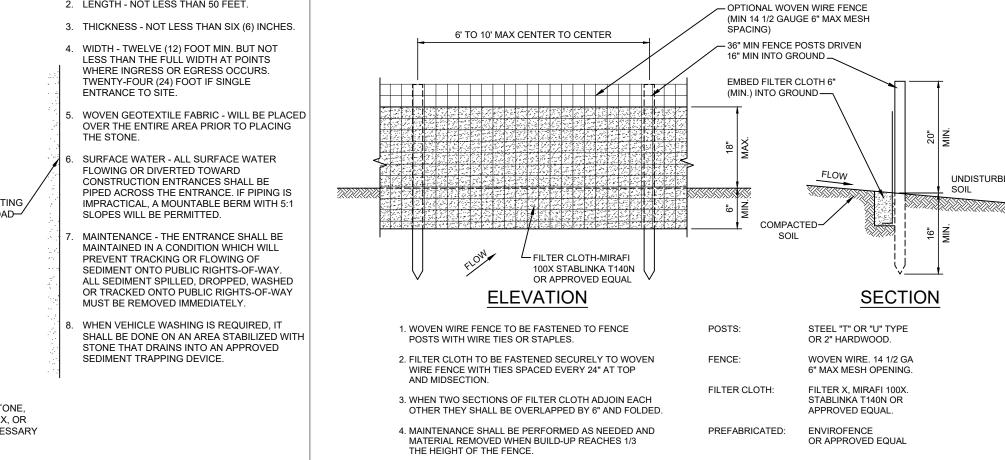
#### **DEWATERING NOTES**

- THE CONTRACTOR SHALL INSTALL, MAINTAIN, AND OPERATE ALL CHANNELS, SUMPS, AND ALL OTHER TEMPORARY DIVERSION AND PROTECTIVE WORKS NEEDED TO DIVERT STREAM FLOW AND OTHER SURFACE WATER THROUGH OR AROUND THE CONSTRUCTION SITE. CONTROL OF SURFACE WATER SHALL BE CONTINUOUS DURING THE PERIOD THAT DAMAGE TO CONSTRUCTION WORK COULD
- OPEN EXCAVATIONS SHALL BE DEWATERED AND KEPT FREE OF STANDING WATER AND MUDDY CONDITIONS AS NECESSARY FOR THE PROPER EXECUTION OF THE WORK. THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ALL DRAINS, SUMPS AND ALL OTHER EQUIPMENT REQUIRED TO PROPERLY DEWATER THE SITE, DEWATERING SYSTEMS THAT CAUSE A LOSS OF SOIL FINES FROM THE FOUNDATION AREAS WILL NOT BE PERMITTED.
- INSTALL DIVERSION DITCHES OR BERMS IF NECESSARY TO MINIMIZE THE AMOUNT OF CLEAN STORMWATER RUNOFF ALLOWED INTO THE EXCAVATION AREA.
- REMOVAL OF WATER FROM THE CONSTRUCTION SITE SHALL BE ACCOMPLISHED SO THAT EROSION AND TRANSPORTATION OF SEDIMENT AND OTHER POLLUTANTS ARE MINIMIZED.
- DISCHARGE DEWATERING EFFLUENT TO AREAS AS INDICATED ON THE SITE GRADING PLAN. DISCHARGE SHALL BE MANAGED TO ENSURE SHEET FLOW.
- DEWATERING IN PERIODS OF INTENSE HEAVY RAIN OR WHEN THE INFILTRATIVE CAPACITY OF THE SOIL IS EXCEEDED, SHALL BE
- FLOW TO THE SEDIMENT REMOVAL STRUCTURE MAY NOT EXCEED THE STRUCTURE'S CAPACITY TO SETTLE AND FILTER FLOW OR THE STRUCTURE'S VOLUME CAPACITY.
- WHEN TEMPORARY WORKS ARE NO LONGER NEEDED, THE CONTRACTOR SHALL REMOVE AND RETURN THE AREA TO A CONDITION SIMILAR TO THAT WHICH EXISTED BEFORE CONSTRUCTION. AREAS WHERE TEMPORARY WORKS WERE LOCATED SHALL BE GRADED FOR SIGHTLY APPEARANCE WITH NO OBSTRUCTION TO NATURAL SURFACE WATER FLOWS OR THE PROPER FUNCTIONING AND ACCESS TO THE WORKS OF IMPROVEMENTS INSTALLED. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING THE

REMOVAL STAGES TO MINIMIZE THE LOSS OF SOIL SEDIMENT AND DEBRIS THAT WAS COLLECTED DURING CONSTRUCTION







STABILIZED CONSTRUCTION ENTRANCE

TEMPORARY LINER, STRAW MULCH HELD IN PLACE WITH PLASTIC OR JUTE NETTING ANCHOR NETTING IN ROLL OUT STRIPS OF NETTING PARALLEL TO THE DIRECTION OF JOIN STRIPS BY ANCHORING AND OVERLAPPING 1. EXCAVATE THE CHANNEL AND SHAPE IT TO AN

PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED, NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED

WITH PAPER SIDE DOWN

NOT TO SCALE

CUTOFF TRENCH -18" WIDE x 6" DEEP

NONWOVEN GEOTEXTILE

BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 12" DEEP X 12" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTEDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING, APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH

3. ROLL THE BLANKETS (A) DOWN THE SLOPE. HORIZONTAL (B) INSTALLATION MAY BE APPROPRIATE IN SOME INSTANCES AS APPROVED BY THE ENGINEER.
BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH A MINIMUM OF 4"-6" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH

\*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS. **EROSION CONTROL BLANKET** 

- 2" DIAMETER CRUSHED STONI

**PROFILE** 

INSTALLATION NOTES: EVEN CROSS-SECTION AS SHOWN. WHEN STAKING INDICATE A 0.2' OVERCUT AROUND THE CHANNE BE DRY AND STABLE. PERIMETER FOR SILTING AND BULKING 2. GRADE SOIL AWAY FROM CHANNEL SO THAT SURFACE 3. APPLY LIME, FERTILIZER AND SEED TO THE CHANNEL

4. SPREAD HAY OR STRAW MULCH AT THE RATE OF 100LB/1000 SF. 5. HOLD MULCH IN PLACE IMMEDIATELY AFTER SPREADING WITH A PLASTIC NETTING INSTALLED AS SHOWN.

AND ADJOINING AREAS IN ACCORDANCE WITH THE

6. START LAYING THE NET FROM THE TOP OF THE

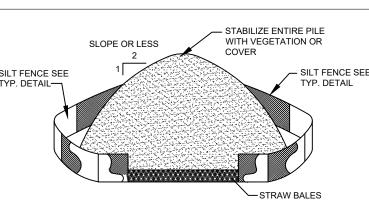
EROSION CONTROL PLAN.

UPSTREAM END OF THE CHANNEL AND UNROLL I DOWN GRADE. DO NOT STRETCH THE NETTING. 7. BURY THE UP SLOPE END AND STAPLE THE NET EVERY 12" ACROSS THE TOP END, EVERY 3 FT AROUND THE EDGES AND ACROSS THE NET SO THAT THE STRAW IS ELD CLOSELY AGAINST THE SOIL. HOWEVER, DO NOT STRETCH THE NETTING WHEN STAPLING.

8 NETTING STRIPS SHOULD BE JOINED TOGETHER ALONG THE SIDES WITH A 3" OVERLAP AND STAPLED TOGETHER TO JOIN ENDS OF STRIPS, INSERT A NEW ROLL OF NET IN A TRENCH AS WITH THE UP SLOPE END AND OVERLAP IT 18" WITH THE PREVIOUSLY LAID UPPER

.. TURN UNDER 6" OF THE 18" OVERLAP AND

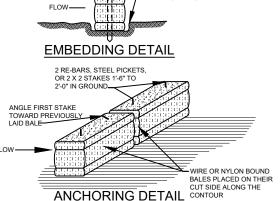
STAPLE EVERY 12" ACROSS THE END.



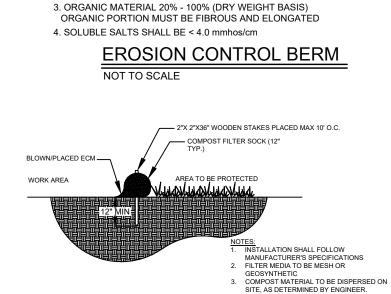
SILT FENCE DETAILS

I. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V. 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE OR STRAW BALES, THEN STABILIZED WITH VEGETATION

TYPICAL SOIL STOCKPILE



STRAW BALE BARRIER



EROSION CONTROL SOIL/BARK MIX: SHALL CONSIST OF SHREDDED

BARK STUMP GRINDINGS COMPOSTED BARK OR FLUMF GRIT AND

MIX SHALL NOT CONTAIN LARGE PORTIONS OF SILTS, CLAYS OR

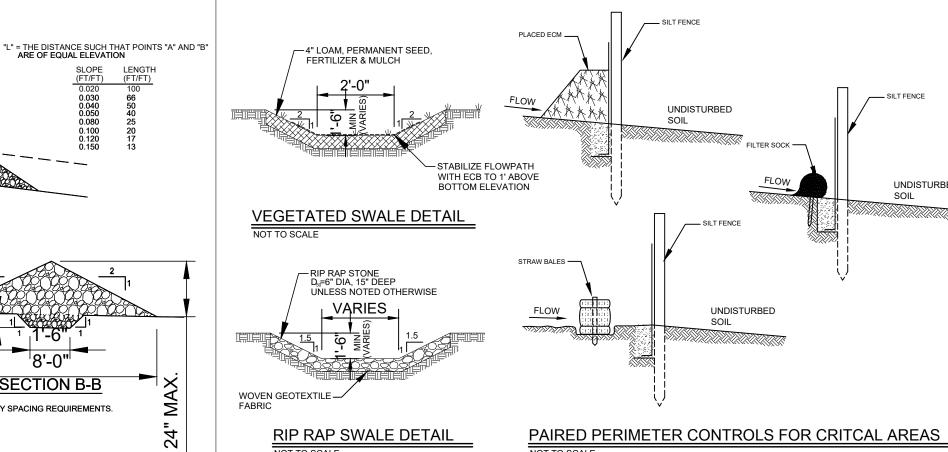
SYSTEMS. THE MIX SHALL CONFORM TO THE FOLLOWING:

3/4" - 70% TO 85% PASSING

1. pH - 5.0 TO 8.0. 2. SCREEN SIZE: 6" - 100% PASSING

FRAGMENTED WOOD GENERATED FROM WATER-FLUME LOG HANDLING

COMPOST FILTER SOCK



3. VEHICLE TRACKING CONTROL IS REQUIRED AT THE ACCESS POINT.

CONCRETE WASHOUT AREA INSTALLATION AREA:

1. CONCRETE WASHOUT AREAS ARE TO BE INSTALLED AT SUBSTATION SITE, LAYDOWN AREA AND WHEREVER ELSE CONCRETE IS USED FOR THE PROJECT. 2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON THE SITE.

8' X 8' MIN.

OR AS REQUIRED TO CONTAIN WASTE CONCRETE

SECTION A-A'

-SEE CONSTRUCTION ENTRANC DETAIL FOR DESIGN OF PAD

- 4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- 5. MATERIAL EXCAVATED TO CREATE CONCRETE WASHOUT PIT SHALL BE UTILIZED TO CONSTRUCT PERIMETER BERM AROUND PIT
- CONCRETE WASHOUT AREA MAINTENANCE NOTES:
- THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED 2. AT THE END OF CONSTRUCTION, REMOVE ALL CONCRETE, COVER THE DISTURBED AREA WITH TOPSOIL, DRILL SEED AND CRIMP MULCH OR OTHERWISE

CONCRETE WASHOUT AREA

TOP OF BANK-

VIEW LOOKING UP GRADIENT

1. PLACE BALES PERPENDICULAR TO FLOW.

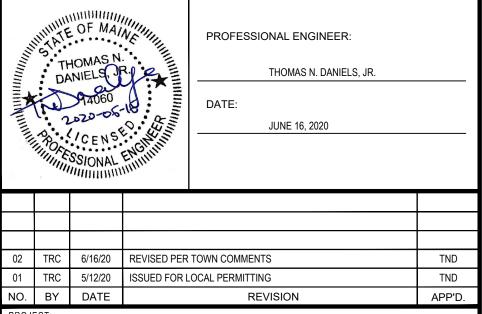
2. EMBED THE BALE 4" INTO THE SOIL AND KEY THE END BALES INTO THE SOIL AND "KEY" THE END BALES INTO THE CHANNEL BANKS TO PREVENT FLOW AROUND THE

- 3. BALES PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING.
- 4. POINT "A" SHALL BE HIGHER THAN POINT "B."
- SPILLWAY HEIGHT SHALL NOT EXCEED 24". 6. SILT FENCE MAY BE USED IN LIEU OF BALES (FOLLOW SAME GUIDELINES).

SEMI-PERVIOUS SEDIMENT BARRIER

PERMITTING NOT FOR CONSTRUCTION





**SOLAR FIELDS LLC** PROPOSED 2MW SOLAR ARRAY 242 MANCHESTER RD, BELGRADE, MAINE

**EROSION CONTROL NOTES & DETAILS** 

TRC/ARD PROJ. NO.: DRAWN BY 389694 HECKED BY G-3 PPROVED BY 14 Gabriel Drive

Augusta, ME 04330 Phone: 207.620.3800 www.trcsolutions.com

389694-G-SHEETS.dwg

**EXCAVATION DEWATERING DETAIL** 

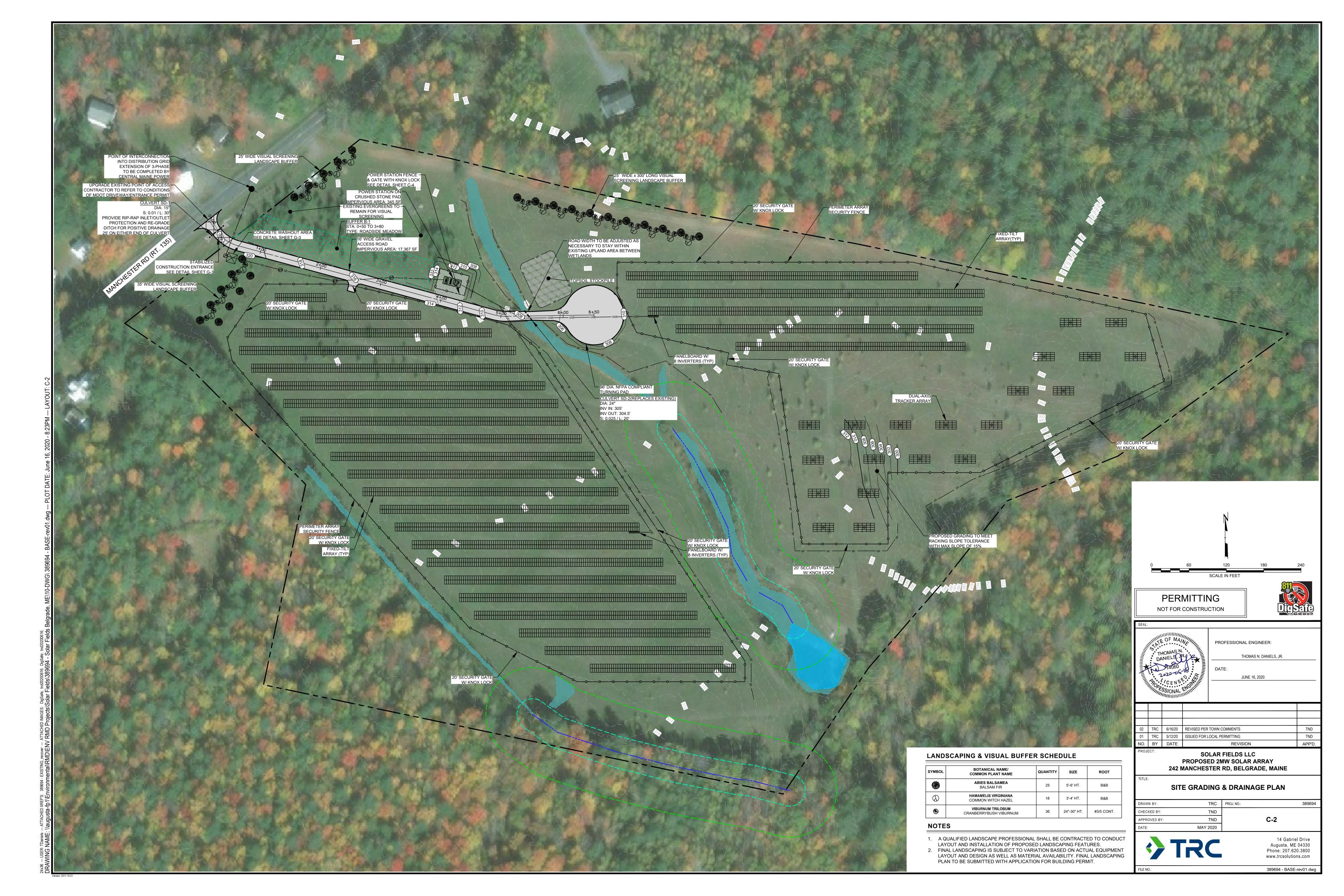
GEOTEXTILE FABRIC SECTION A-A

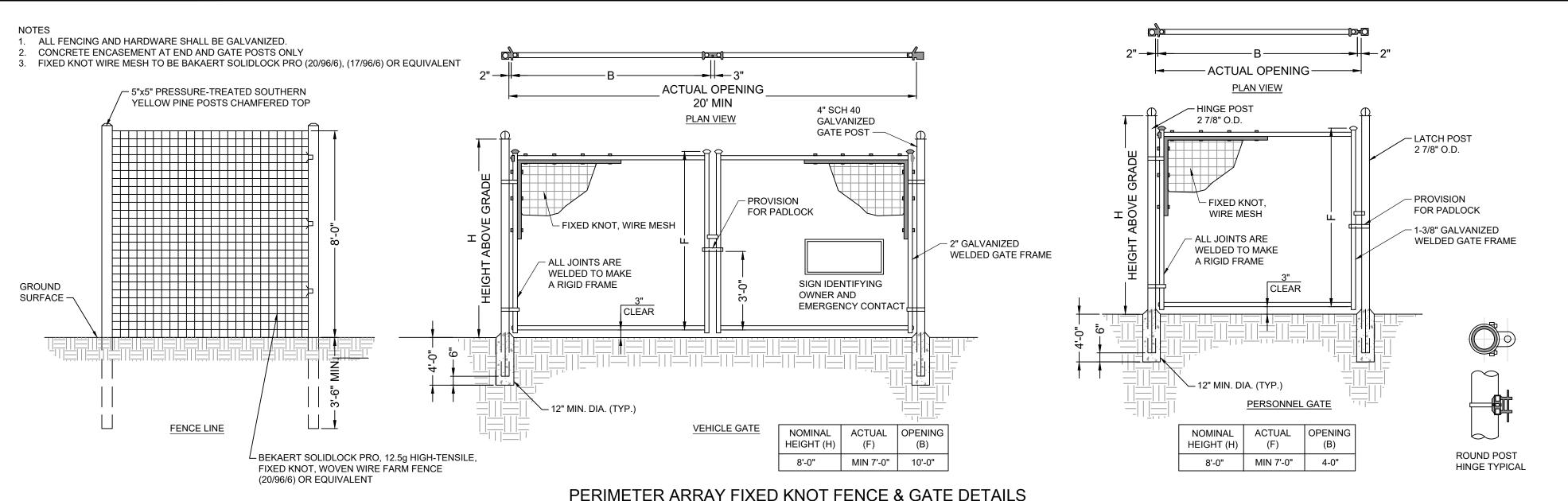
CHECK DAM DETAILS

NOTE: INSTALL WHERE INDICATED ON SITE GRADING PLAN AND AS NEEDED BY SPACING REQUIREMENTS

CULVERT INLET/OUTLET PROTECTION







PERIMETER ARRAY FIXED KNOT FENCE & GATE DETAILS NOT TO SCALE

UPSLOPE EDGE OF

EXISTING GRADE

ROAD TO MATCH INTO

MINIMUM DEPTH OF

GEOTECHNICAL REPORT.

GRAVEL TO BE 12"

STRIP VEGETATION AND

COMPACT SUBGRADE TO

95% MODIFIED PROCTOR

— 3" STONE TOPPING — 12" SUBBASE GRAVEL (MDOT TYPE D) SUBGRADE FILL AS NECESSARY TO MEET FINAL GRADE COMPACTED NATIVE SUBGRADE

STONE TOPPING, ASTM C33, SIZE NUMBER 4. CRUSHED STONE TOPPING SHALL BE OBTAINED FROM ROCK OF UNIFORM QUALITY AND CONSIST OF CLEAN, ANGULAR FRAGMENTS OF QUARRIED ROCK, FREE FROM SOFT DISINTEGRATED PIECES OR OBJECTIONABLE MATTER. STONE TOPPING SHALL BE SPECIFIED CRUSHED STONE BLENDED TO BE A 50:50 MIX OF 1-1/2 INCH AND 3/4-INCH STONE.THE FOLLOWING GRADATION IS PROVIDED:

SIEVE DESIGNATION PERCENTAGE BY WEIGHT PASSING SQUARE MESH SIEVES 2 INCH

SITE PERIMETER

1- ½ INCH 90-100 1 INCH 20-55  $\frac{3}{4}$  INCH 0-15 <sup>3</sup>/<sub>8</sub> INCH 0-5

- 2. SUBBASE GRAVEL SHALL CONFORM TO MDOT 703.06. AGGREGATE SHALL BE DURABLE CRUSHED ROCK CONSISTING OF THE ANGULAR FRAGMENTS OBTAINED BY BREAKING AND CRUSHING SOLID OR SHATTERED NATURAL ROCK, AND FREE FROM A DETRIMENTAL QUANTITY OF DELETERIOUS MATERIALS.
- 3. VEGETATION SHALL BE STRIPPED FROM FOOTPRINT OF CRUSHED STONE PAD PRIOR TO PLACEMENT OF
- SUBGRADE FILL. 4. NATIVE SUBGRADE SHALL BE COMPACTED AND PROOF ROLLED PRIOR TO PLACEMENT OF SUBGRADE FILL.

# POWER STATION CRUSHED STONE PAD BUILD-UP

FENCE CENTERLINE

- STRIP VEGETATION AND COMPACT PERIMETER TRAVEL WAY TO 95% MODIFIED PROCTOR MEASURED AT A DEPTH OF

12-INCHES. DRESS COMPACTED SURFACE WITH 2-INCHES

OF TOPSOIL AND STABILIZE WITH SEED AND MULCH

PERIMETER ACCESS TRAVEL WAY DETAIL

ARRAY INTERIOR

15'

CLEAR TRAVEL WAY

EXISTING GRADE

CLEAR TRAVEL WAY

NOT TO SCALE

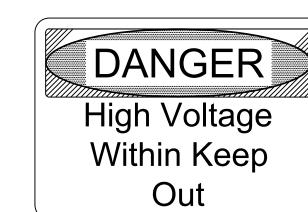


No

Trespassing

PLAN VIEW. CROSS SLOPE SHALL NOT EXCEED 4%.

SHEETFLOW TO IDENTIFIED BUFFER AREAS.



B" BASE GRAVEL

SUBGRADE FILL

9" SUBBASE GRAVEL

MAX SLOPE 3H:1V

## **NOTES**

- SIGNS SHALL CONFORM TO THE 2013 OSHA AND ANSI REQUIREMENTS.
- SIGNS SHALL BE 20" WIDE BY 14" HIGH.
- SIGNS SHALL HAVE A MOUNTING HEIGHT OF BETWEEN 45 TO 66 INCHES. SIGN PANELS SHALL BE 10 GAUGE ALUMINUM WITH HIGH VISIBILITY REFLECTIVE

2% MIN / 4% MAX

NON-WOVEN GEOTEXTILE

(MIRAFI 600X OR APPROVED EQUIVALENT)

SUBGRADE FILL SHALL BE GRANULAR BORROW (MDOT 703.19) OR AS SPECIFIED IN PROJECT

3. ROADWAY SHOULDER SHALL BE VEGETATED AND PREPARED TO DIRECT RUNOFF AS

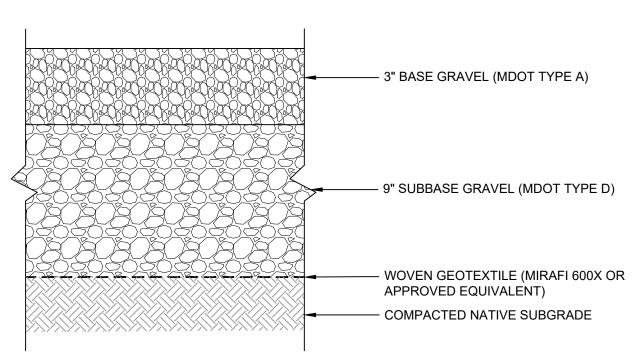
GRAVEL SURFACE SHALL BE SUPERELEVATED AND SLOPED A MINIMUM OF 2% AS INDICATED IN

SEPARATION FABRIC

SIGNAGE SHALL INCLUDE 24-HR EMERGENCY CONTACT INFORMATION FOR FACILITY OPERATOR.

HAZARD & EMERGENCY SIGNAGE

NOT TO SCALE

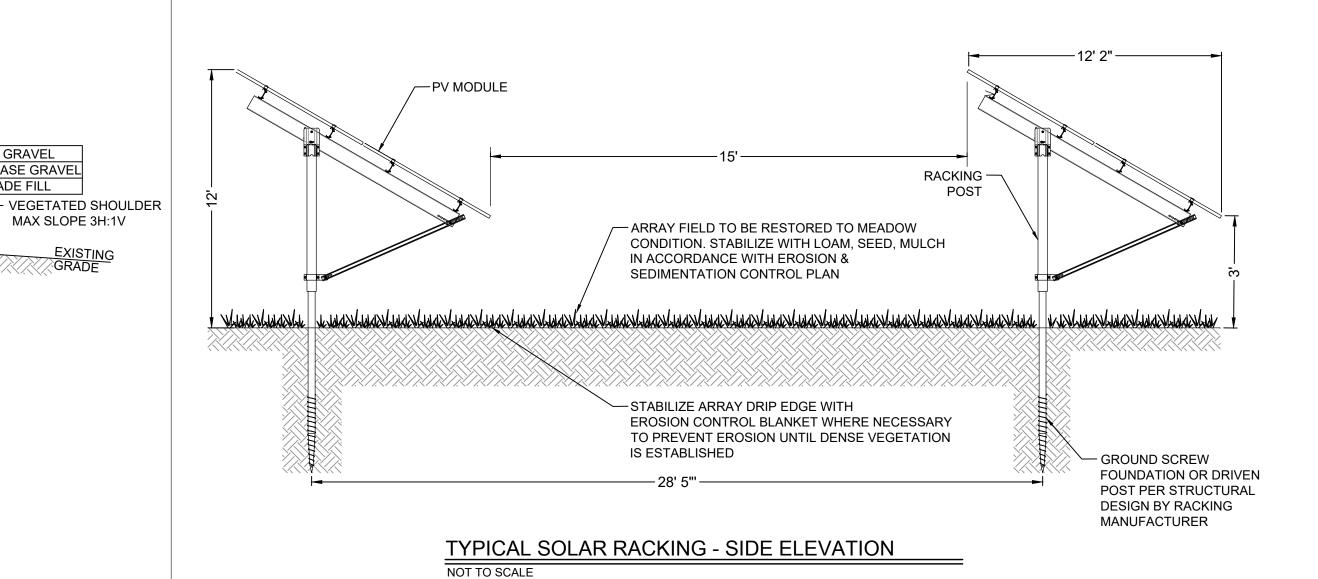


**CONSTRUCTION NOTES** BASE AND SUBBASE GRAVEL SHALL CONFORM TO MDOT 703.06. AGGREGATE SHALL BE DURABLE CRUSHED ROCK CONSISTING OF THE ANGULAR FRAGMENTS OBTAINED BY BREAKING AND CRUSHING SOLID OR SHATTERED NATURAL ROCK, AND FREE FROM, A DETRIMENTAL QUANTITY OF THIN, FLAT

- 2. BASE GRAVEL AND SUBBASE GRAVEL, SHALL BE COMPACTED TO 95% OF ASTM D1557 AND PLACED IN MAXIMUM COMPACTED LIFTS OF 9-INCHES.
- 3. VEGETATION AND TOPSOIL WITHIN LIMIT OF ROAD FILL SHALL BE STRIPPED PRIOR TO PLACEMENT OF SUBGRADE FILL.
- 4. SUBGRADE SHALL BE COMPACTED TO 95% OF ASTM D1557 TO A DEPTH OF 12-INCHES.

ACCESS DRIVE BUILD-UP

ELONGATED, OR OTHER OBJECTIONABLE PIECES.



# **MEADOW** WATER QUALITY BUFFER I.D. XXX - ## -XX# NO MOWING

# <u>NOTES</u>

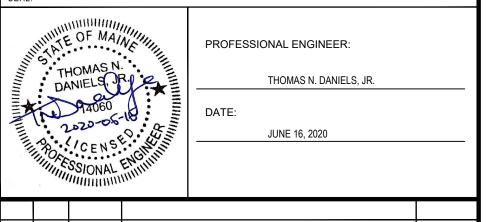
- WATER QUALITY BUFFERS SHALL BE PERMANENTLY MARKED IN THE FIELD AND REGISTERED WITH THE KENNEBEC COUNTY REGISTRY OF DEEDS.
- SIGNS SHALL BE 20" WIDE BY 14" HIGH.
- SIGNS SHALL HAVE A MOUNTING HEIGHT OF BETWEEN 24 TO 48 INCHES.
- SIGN PANELS SHALL BE 10 GAUGE ALUMINUM OR OTHER APPROVED WEATHER RESISTANT MATERIAL

STORMWATER BUFFER SIGNAGE DETAIL

NOT TO SCALE







02	TRC	6/16/20	REVISED PER TOWN COMMENTS	TND
01	TRC	5/12/20	ISSUED FOR LOCAL PERMITTING	TND
IO.	BY	DATE	REVISION	APP'D.

**SOLAR FIELDS LLC** PROPOSED 2MW SOLAR ARRAY 242 MANCHESTER RD, BELGRADE, MAINE

**CIVIL CONSTRUCTION DETAILS** 

TRC PROJ. NO.: DRAWN BY: HECKED BY: C-3 PPROVED BY: TND



14 Gabriel Drive Augusta, ME 04330 Phone: 207.620.3800 www.trcsolutions.com

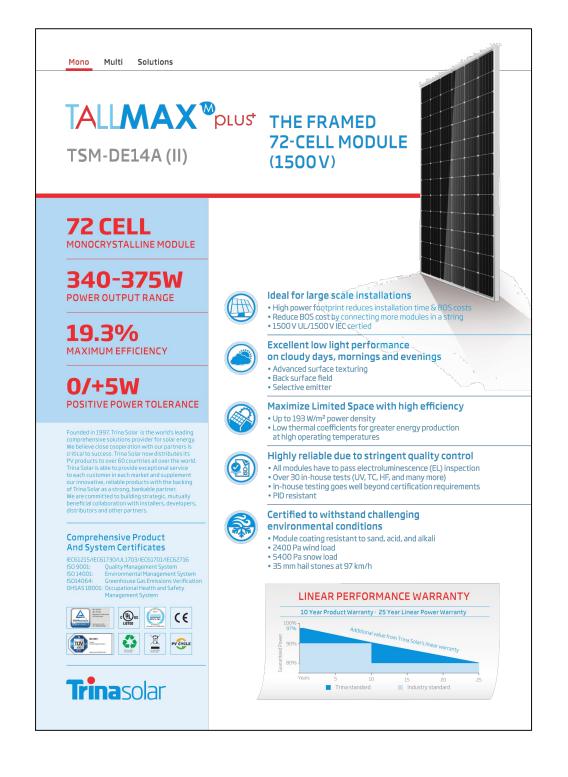
389694 - DT.dwg

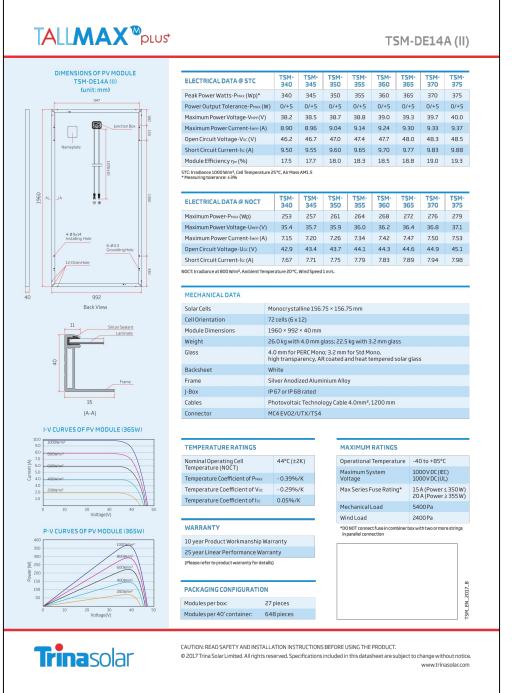
389694

SLOPE TO PROVIDE

POSITIVE DRAINAGE

**EXISTING GRADE** 



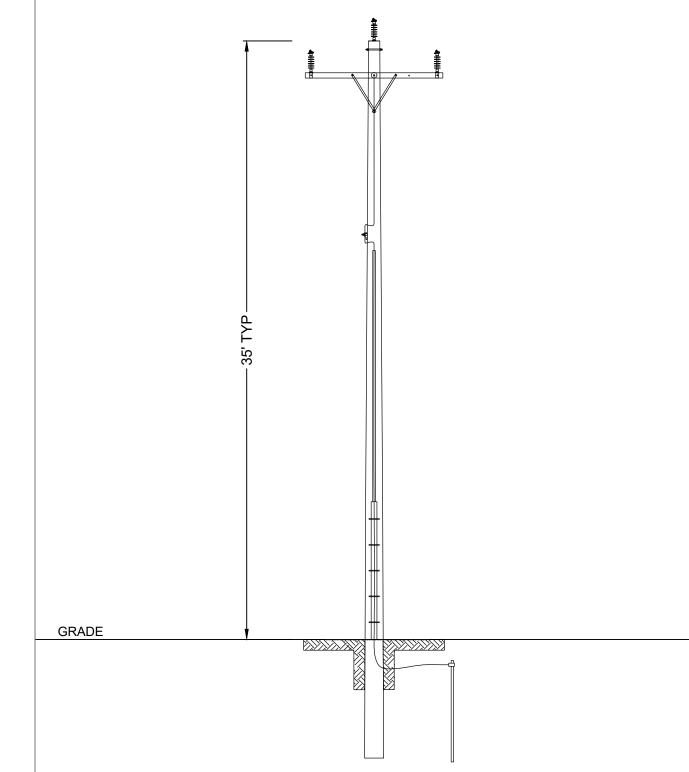




**DUAL-AXIS TRACKER** 



**FIXED TILT ARRAY** 



NOTES

TYPICAL UTILITY POLE NOT TO SCALE

### PV MODULE SPECIFICATION SHEET

NOT TO SCALE

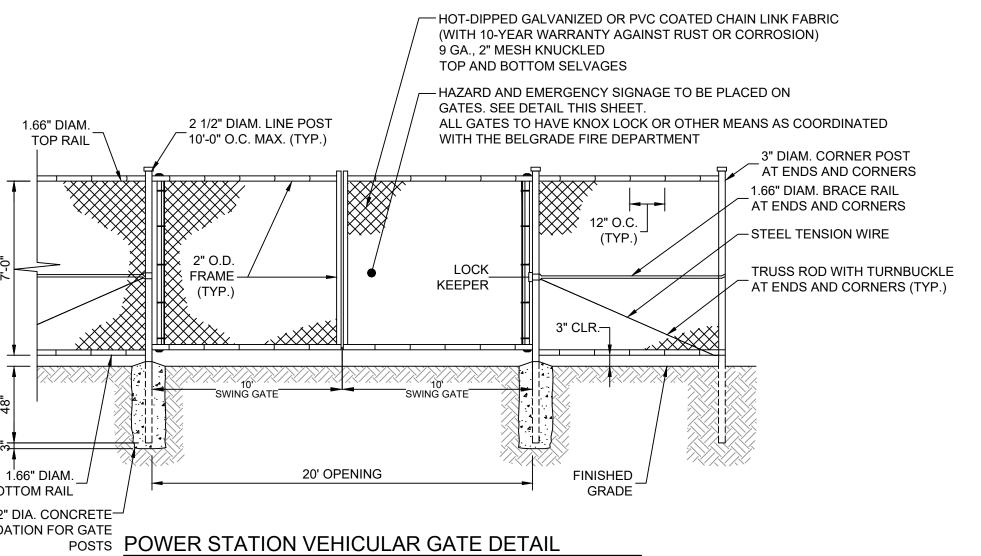
NOTES:

1. DETAIL IS FOR ILLUSTRATIVE PURPOSES ONLY. FINAL GATE DESIGN AND LAYOUT SUBJECT TO DETAILED ENGINEER, AHJ APPROVAL, AND CONTRACTOR SUBMITTAL. ALTERNATIVE DESIGN FOR GATE IS 20FT CANTILEVERED SLIDING GATE.

**DUAL-AXIS TRACKER DETAIL** 

— HOT-DIPPED GALVANIZED OR PVC COATED CHAIN LINK FABRIC (WITH 10-YEAR WARRANTY AGAINST RUST OR CORROSION) 9 GA., 2" MESH KNUCKLED TOP AND BOTTOM SELVAGES 3" DIAM. CORNER POST AT ENDS AND CORNERS 1.66" DIAM. BRACE RAIL AT ENDS AND CORNERS - STEEL TENSION WIRE TRUSS ROD WITH TURNBUCKLE AT ENDS AND CORNERS (TYP.) FINISHED GRADE -DIRECT EMBED POSTS-1.66" DIAM. BOTTOM RAIL —

POWER STATION FENCE DETAIL



PERMITTING

NOT FOR CONSTRUCTION

AGREEMENT, AND FINAL AHJ APPROVAL.

AND NEC CODE COMPLIANCE.

DETAILS THIS SHEET ARE FOR CONCEPTUAL AND ILLUSTRATIVE

TO DETAILED ENGINEERING DESIGN, INTERCONNECTION

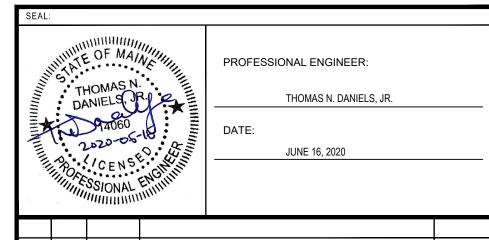
ON SITE CONDITIONS AND UTILITY REQUIREMENTS.

2. POLE DETAILS ARE DIAGRAMMATIC AND MAY BE CHANGED BASED

3. FINAL EQUIPMENT CLEARANCES ARE SUBJECT TO AHJ APPROVAL

PURPOSES ONLY. FINAL LAYOUT AND CONFIGURATION IS SUBJECT





02 TRC 6/16/20 REVISED PER TOWN COMMENTS 01 TRC 5/12/20 ISSUED FOR LOCAL PERMITTING NO. BY DATE APP'D.

> SOLAR FIELDS LLC PROPOSED 2MW SOLAR ARRAY 242 MANCHESTER RD, BELGRADE, MAINE

# **ELECTRICAL DETAILS**

TRC PROJ. NO.: DRAWN BY: 389694 CHECKED BY: C-4 PPROVED BY: TND 14 Gabriel Drive Augusta, ME 04330 Phone: 207.620.3800

389694 - DT.dwg

www.trcsolutions.com

STOKBORD CABLE WARNING AND PROTECTION BOARD AS MANUFACTURED BY CENTRIFORCE OR APPROVED EQUAL - BACKFILL WITH EXCAVATED MATERIAL - DIRECT BURIAL MV CABLE BED & BACKFILL DIRECT BURIAL CABLE AS SPECIFIED BY FINAL ELECTRICAL DESIGN MV UNDERGROUND COLLECTION LINE DETAIL NOT TO SCALE

8" PVC DUCT AND POWER CABLE - EXISTING GRADE

- NEW UTILITY POLE

UNDERGROUND TO OVERHEAD TRANSITION DETAIL

↓ ↓ ↓ 0.5 ft max

TYPICAL SOLAR ARRAY ISOMETRIC VISUALS NOT TO SCALE

NOTES:

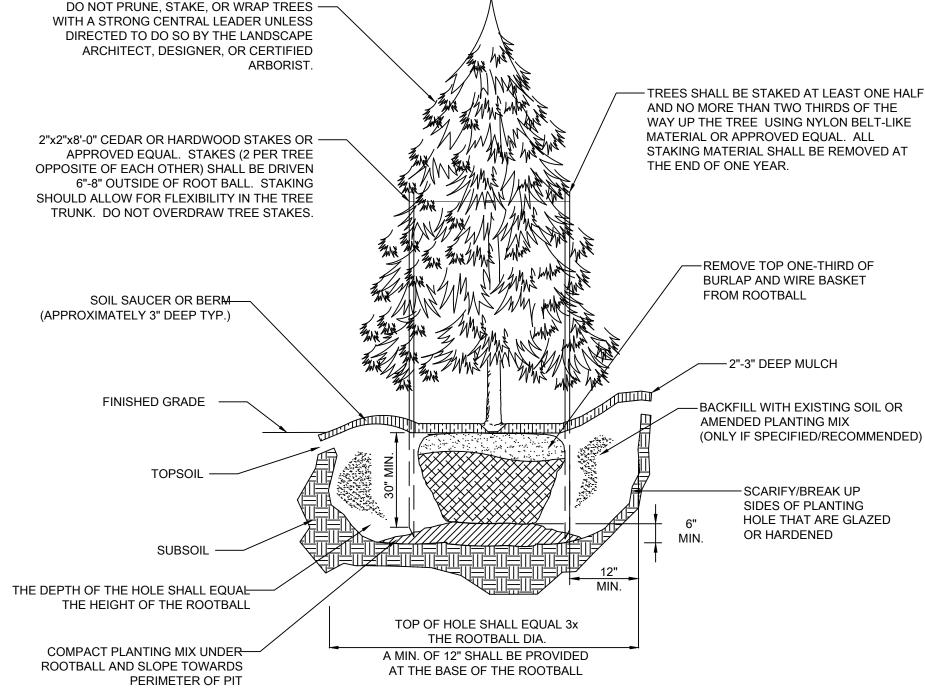
1. DETAIL PROVIDED BY ALLEARTH SOLAR OF WILLISTON, VT. TOP RAIL →

BOTTOM RAIL 12" DIA. CONCRETE-FOUNDATION FOR GATE

NOT TO SCALE

#### GENERAL LANDSCAPING NOTES AND VEGETATION MANAGEMENT RECOMMENDATIONS

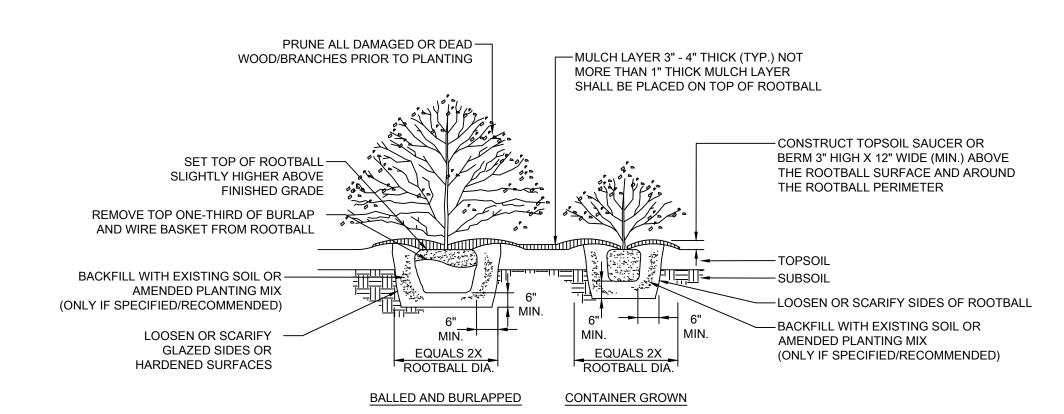
- 1. THE LANDSCAPE PLAN AND DETAILS ARE FOR LANDSCAPING INFORMATION ONLY. PLEASE REFER TO THE SITE GRADING AND DRAINAGE PLAN FOR ALL OTHER INFORMATION.
- THE CONTRACTOR SHALL MONITOR AND GUARANTEE THAT ALL PLANTS, TREES, AND SHRUBS SHALL BE HEALTHY AND FREE OF DISEASE FOR A PERIOD OF (2) TWO YEARS AFTER SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER. CONTRACTOR SHALL REPLACE ANY DEAD OR UNHEALTHY PLANTS AT CONTRACTOR'S EXPENSE. FINAL ACCEPTANCE SHALL BE MADE IF ALL PLANTS MEET THE GUARANTEE REQUIREMENTS INCLUDING MAINTENANCE. MAINTENANCE RESPONSIBILITIES INCLUDE INVASIVE SPECIES MONITORING, REMOVAL, AND SUPPLEMENTATION. MONITORING OF THE PROJECT SITE SHALL OCCUR IN THE SPRING AND THE FALL TO DETERMINE THE PRESENCE OF INVASIVE SPECIES. SHOULD ANY INVASIVE SPECIES BE IDENTIFIED WITHIN THE PROJECT SITE, THE INVASIVE SPECIES SHALL BE REMOVED ACCORDING TO METHODS MOST LIKELY TO BE EFFECTIVE IN CONTROLLING THAT SPECIES AND SUPPLEMENTING ITS REPLACEMENT WITH APPROPRIATE VEGETATION AND SEED MIX IDENTIFIED (AND APPROVED) ON THIS PLAN AND/OR AN APPROVED EQUAL. ADDITIONAL MAINTENANCE RESPONSIBILITIES INCLUDE: APPROVED CULTIVATING, SPRAYING, WEEDING, WATERING, TIGHTENING OF TREE STRAP GUYS, PRUNING, FERTILIZING, MULCHING, AND ANY OTHER OPERATIONS NECESSARY TO MAINTAIN PLANT VIABILITY. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND CONTINUE UNTIL 90 DAYS AFTER FINAL ACCEPTANCE.
- PLANTS SHALL BE INSPECTED ANNUALLY FOR (5) FIVE YEARS POST-CONSTRUCTION AND REPLACED AS NEEDED TO ENSURE A CONTINUOUS SCREEN BECOMES ESTABLISHED.
- . WITHIN 24-HOURS OF PLANTING, AND CONTINUING THROUGHOUT ESTABLISHMENT (TWO MONTHS OR LONGER IN DROUGHT CONDITIONS), PLANTS SHALL BE WATERED WEEKLY UNLESS 0.5-INCHES OF RAIN OR GREATER FALLS WITHIN A GIVEN WEEK.
- 5. THE CONTRACTOR SHALL SUPPLY ALL LABOR, PLANTS, APPROVED SEEDING MIX, AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWING(S) AND LISTED IN THE PLANT SCHEDULE(S) AND/OR SEEDING TABLE(S). IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT SCHEDULE AND/OR SEEDING TABLE AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER SHALL APPLY. ALL PLANTS SHALL BE ACCLIMATED BY THE SUPPLY NURSERY TO THE LOCAL HARDINESS ZONE AND BE CERTIFIED THAT THE PLANTING MATERIAL HAS BEEN GROWN FOR A MINIMUM OF (2) TWO YEARS AT THE SOURCE AND OBTAINED WITHIN 100 MILES OF PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT.
- 6. THE LOCATIONS FOR PLANT MATERIAL ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO SLOPE, VEGETATION, AND SITE FACTORS SUCH AS THE LOCATION OF ROCK OUTCROPS. PRIOR TO PLANTING THE CONTRACTOR SHALL ACCURATELY STAKE OUT THE LOCATIONS FOR ALL PLANTS. THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT SHALL APPROVE THE FIELD LOCATIONS OR ADJUSTMENTS OF THE PLANT MATERIAL.
- 7. ALL SHRUB MASSING SHALL BE MULCHED TO A DEPTH OF 2" AND SHREDDED HARDWOOD BARK MULCH SHALL BE USED FOR SHRUB MASSING
- NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE CONTRACTOR. STAKING THE LOCATION OF ALL TREES AND SHRUBS SHALL BE COMPLETED PRIOR TO PLANTING FOR APPROVAL BY THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT. STAKING OF THE INSTALLED TREE MUST BE COMPLETED THE SAME DAY AS IT IS INSTALLED. ALL TREES SHALL BE STAKED OR GUYED AS PER THE DETAIL. SEE LANDSCAPING PLAN(S) FOR PLANTING DETAILS.
- COORDINATE PLANT MATERIAL LOCATIONS WITH SITE UTILITIES. SEE SITE GRADING AND DRAINAGE PLAN. UTILITY LOCATIONS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT
- 10. LANDSCAPE PLANTING PITS MUST BE FREE DRAINING. PAVEMENT, COMPACTED SUBGRADE, AND BLASTED ROCK SHALL BE REMOVED TO A DEPTH OF 2' OR TO A GREATER DEPTH IF REQUIRED BY PLANTING DETAILS OR SPECIFICATIONS. REPLACE SOIL WITH MODERATELY COMPACTED LOAM OR SANDY LOAM FREE FROM STONES AND RUBBISH 1" OR GREATER IN DIAMETER AND ANY OTHER MATERIAL HARMFUL TO PLANT GROWTH AND DEVELOPMENT. PLANTING INSTALLATION SHALL BE AS DETAILED AND CONTAIN PLANTING MIX AS SPECIFIED UNLESS RECOMMENDED OTHERWISE BY SOIL ANALYSIS.
  - PLANTING SOIL MIXTURE 2 PARTS PEAT MOSS
  - MYCORHIZA INOCULANT "TRANSPLANT 1-STEP" AS MANUFACTURED BY ROOTS, INC. OR APPROVED EQUAL. USE PER MANUFACTURER'S RECOMMENDATIONS FOR TREES AND SHRUBS. FERTILIZER/LIME APPLY AS RECOMMENDED BY SOIL ANAYLSIS
- 9. TREES, AND SHRUBS: TREES AND SHRUBS SHALL BE NURSERY GROWN UNLESS OTHERWISE NOTED AND HARDY UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCATION OF THE PROJECT. THEY SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL HABIT OF GROWTH. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS OR LARVAE. THEY SHALL HAVE HEALTHY AND WELL-DEVELOPED ROOT SYSTEMS. ALL TREES SHALL HAVE STRAIGHT SINGLE TRUNKS WITH THEIR MAIN LEADER INTACT UNLESS OTHERWISE STATED. THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT SHALL ONLY PERMIT SUBSTITUTIONS UPON WRITTEN APPROVAL. THEIR SIZES SHALL CONFORM TO THE MEASUREMENT SPECIFIED ON THE DRAWINGS. PLANTS LARGER THAN SPECIFIED ON THE DRAWINGS MAY BE USED IF APPROVED. THE USE OF SUCH PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. ALL TREES AND SHRUBS SHALL BE MULCHED IN ACCORDANCE WITH THE RESPECTIVE PLANTING DETAIL(S) PROVIDED IN THE LANDSCAPING PLAN.
- 10. ALL PRUNING SHALL CONFORM TO THE TREE CARE INDUSTRY ASSOCIATION (TCIA) ANSI A300 (PART 1) 2017 PRUNING STANDARDS. PRUNING STANDARDS SHALL RECOGNIZE BUT, ARE NOT LIMITED TO, THE FOLLOWING PRUNING OBJECTIVES: MANAGE RISK, MANAGE HEALTH, DEVELOP STRUCTURE, PROVIDE CLEARANCE, MANAGE SIZE OR SHAPE, IMPROVE AESTHETICS, MANAGE PRODUCTION OF FRUIT, FLOWERS, OR OTHER PRODUCTS, AND/OR MANAGE WILDLIFE HABITAT. DEVELOPING STRUCTURE SHALL IMPROVE BRANCH AND TRUNK ARCHITECTURE, PROMOTE OR SUBORDINATE CERTAIN LEADERS, STEMS, OR BRANCHES; PROMOTE DESIRABLE BRANCH SPACING; PROMOTE OR DISCOURAGE GROWTH IN A PARTICULAR DIRECTION (DIRECTIONAL PRUNING); MINIMIZE FUTURE INTERFERENCE WITH TRAFFIC, LINES OF SIGHT, INFRASTRUCTURE, OR OTHER PLANTS; RESTORE PLANTS FOLLOWING DAMAGE; AND/OR REJUVENATE SHRUBS. PROVIDING CLEARANCE SHALL ENSURE SAFE AND RELIABLE UTILITY SERVICES; MINIMIZE CURRENT INTERFERENCE WITH TRAFFIC, LINES OF SITE, INFRASTRUCTURE, OR OTHER PLANTS; RAISE CROWN(S) FOR MOVEMENT OF TRAFFIC OR LIGHT PENETRATION; ENSURE LINES OF SIGHT OR DESIRED VIEWS; PROVIDE ACCESS TO SITES, BUILDINGS, OR OTHER STRUCTURES; AND/OR COMPLY WITH REGULATIONS.
- 11. TOPSOIL SURROUNDING LANDSCAPING FEATURES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4 INCHES. CONTRACTOR SHALL SUBMIT TOPSOIL TO A CERTIFIED TESTING LABORATORY TO DETERMINE PH, FERTILITY, ORGANIC CONTENT AND MECHANICAL COMPOSITION. THE CONTRACTOR SHALL SUBMIT THE TEST RESULTS FROM REGIONAL EXTENSION OFFICE OF USDA TO THE OWNER, CERTIFIED LANDSCAPE NSPECTOR, OR LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR SHALL INCORPORATE AMENDMENTS FOR GOOD PLANT GROWTH AND PROPER SOIL ACIDITY RECOMMENDED FROM THE TOPSOIL TEST.
- 12. NO PHOSPHOROUS SHALL BE USED AT PLANTING TIME UNLESS SOIL TESTING HAS BEEN COMPLETED AND TESTED BY A HORTICULTURAL TESTING LAB AND SOIL TESTS SPECIFICALLY INDICATE A PHOSPHOROUS DEFICIENCY THAT IS HARMFUL, OR WILL PREVENT NEW LAWNS/GRASSES AND PLANTINGS FROM ESTABLISHING PROPERLY.
- 13. IF SOIL TESTS INDICATE A PHOSPHOROUS DEFICIENCY THAT WILL IMPACT PLANT AND LAWN ESTABLISHMENT, PHOSPHOROUS SHALL BE APPLIED AT THE MINIMUM RECOMMENDED LEVEL PRESCRIBED IN THE SOIL TEST FOLLOWING ALL APPLICABLE STANDARDS, REQUIREMENTS,
- 14. ALL WILDFLOWERS AND GRASSES SOWED SHALL BE ALLOWED TO GROW TO THEIR NATURALLY OCCURRING HEIGHTS WHENEVER POSSIBLE. NATIVE WILDFLOWERS AND/OR GRASSES CAN BE MOWED/MAINTAINED (WITHIN ACCEPTABLE AREAS IDENTIFIED AND/OR APPROVED BY APPROPRIATE REGULATORY AGENCIES) AS OFTEN AS NEEDED TO KEEP THE VEGETATION AT A DESIRED AND/OR MANAGEABLE/MANICURED
- 15. INVASIVE SPECIES SHALL NOT BE PERMITTED.
- 16. ALL PLANT MATERIAL SHALL CONFORM TO THE PLAN SIZE SPECIFICATIONS AS ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY



# EVERGREEN TREE PLANTING DETAIL

#### NOTES

- 1. TREE PLANTING SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE
- AS IT WAS PRE-DUG IN THE NURSERY. 2. NEVER CUT THE PRIMARY LEADER.
- 3. IT IS NOT RECOMMENDED TO AMEND THE EXISTING SOIL BEFORE BACKFILLING THE HOLE UNLESS SOIL CONDITIONS ARE POOR FOR
- 4. WATER THOROUGHLY TO HELP ENSURE THE REMOVAL OF AIR POCKETS AND PROPERLY SET THE TREE.



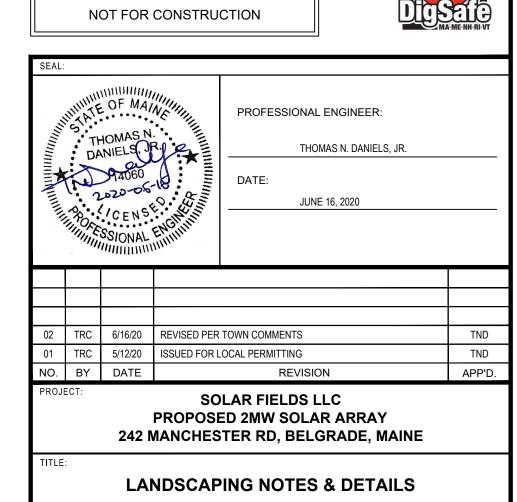
# SHRUB PLANTING DETAIL

#### **DETAIL NOTES**

- IN AREAS WITH MASS PLANTINGS, CONTINUOUS EXCAVATION AND MULCHING PRACTICES SHALL BE IMPLEMENTED WHENEVER POSSIBLE.
- IT IS NOT RECOMMENDED TO AMEND THE EXISTING SOIL BEFORE
- BACKFILLING THE HOLE UNLESS SOIL CONDITIONS ARE POOR FOR PLANTING. 3. WATER THOROUGHLY TO HELP ENSURE THE REMOVAL OF AIR POCKETS.

PERMITTING NOT FOR CONSTRUCTION





TRC PROJ. NO.: 389694 CHECKED BY C-5 PPROVED BY:

14 Gabriel Drive Augusta, ME 04330 Phone: 207.620.3800 www.trcsolutions.com

389694 - DT.dwg

DRAWN BY:

