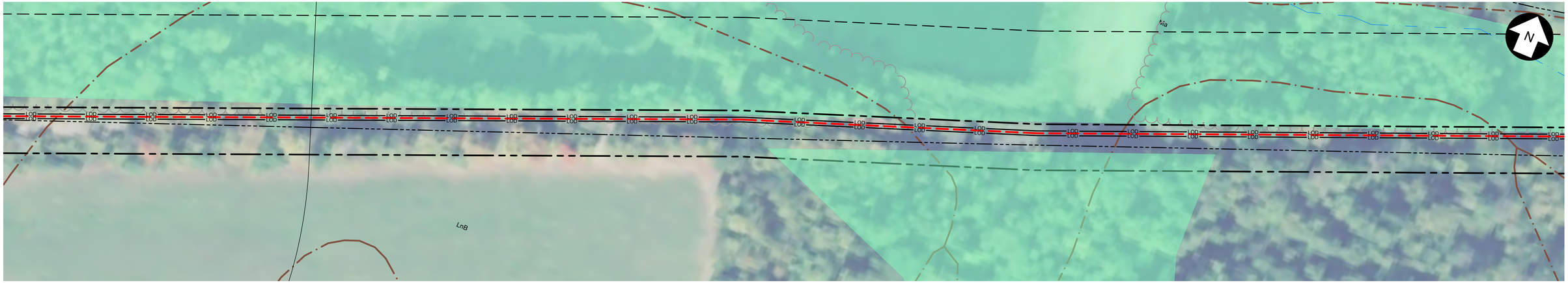
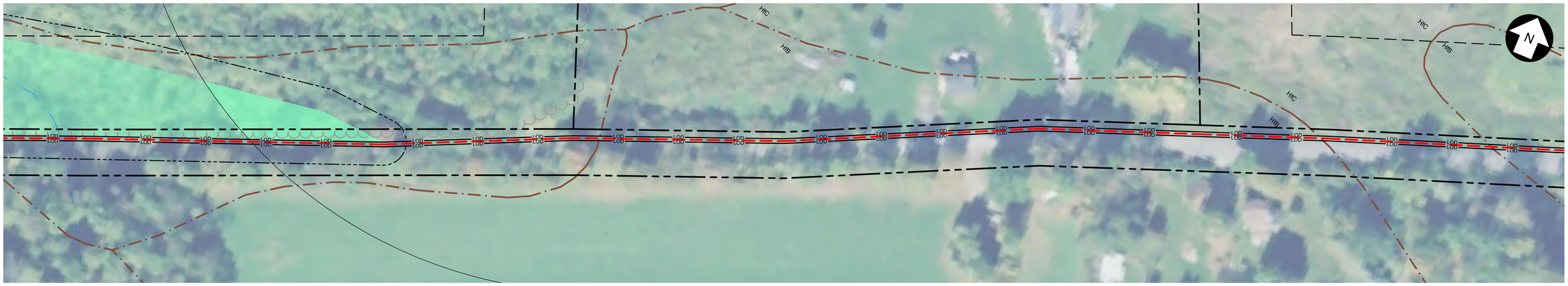
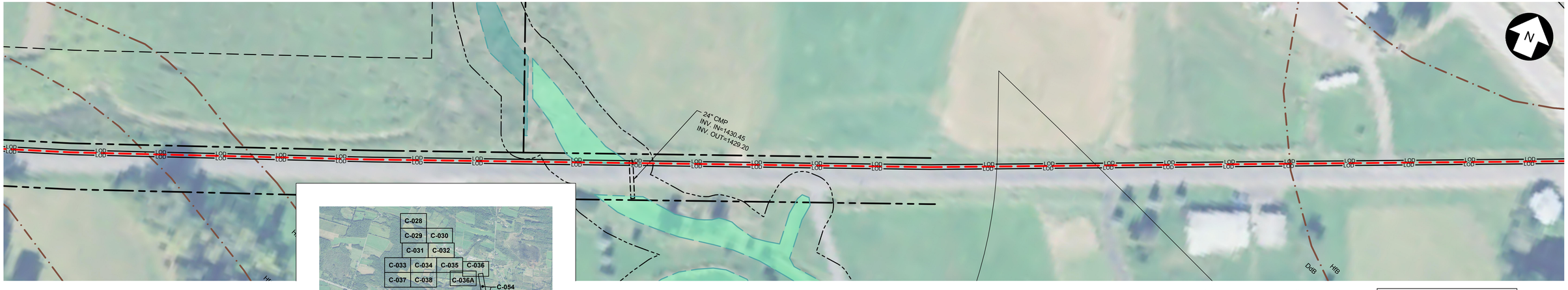
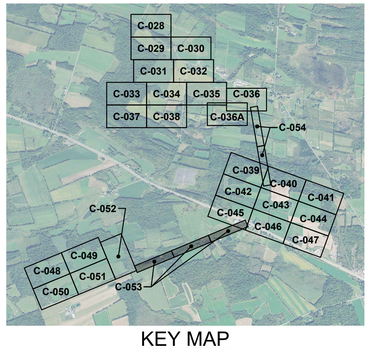
FOR CONTINUATION, SEE DRAWING C-049









KEY MAP
SCALE: 1" = 3,000'

50 0 50 100 FT
SCALE: 1" = 50'

PERMITTING
NOT FOR CONSTRUCTION

Call 811 before you dig

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

TRC
249 Western Avenue
Augusta, ME 04330

PROJECT NO: 327851

REFERENCE ITEMS	REV	DESCRIPTION	DATE	DES	CHK	APP
	B	ISSUED FOR PERMITTING	08-30-19	CMW	PMM	
	A	ISSUED FOR CLIENT REVIEW	08-22-19	CMW	PMM	

CMW DESIGNED
SEK DRAWN
PMM CHECKED
APPROVED
REVIEW 1
REVIEW 2

PRELIMINARY
COLLECTOR ROUTE PLAN
EAST POINT ENERGY CENTER
EAST POINT ENERGY CENTER, LLC
SHARON SCHOHARIE CO., NY

04/08 DATE
AS NOTED SCALE

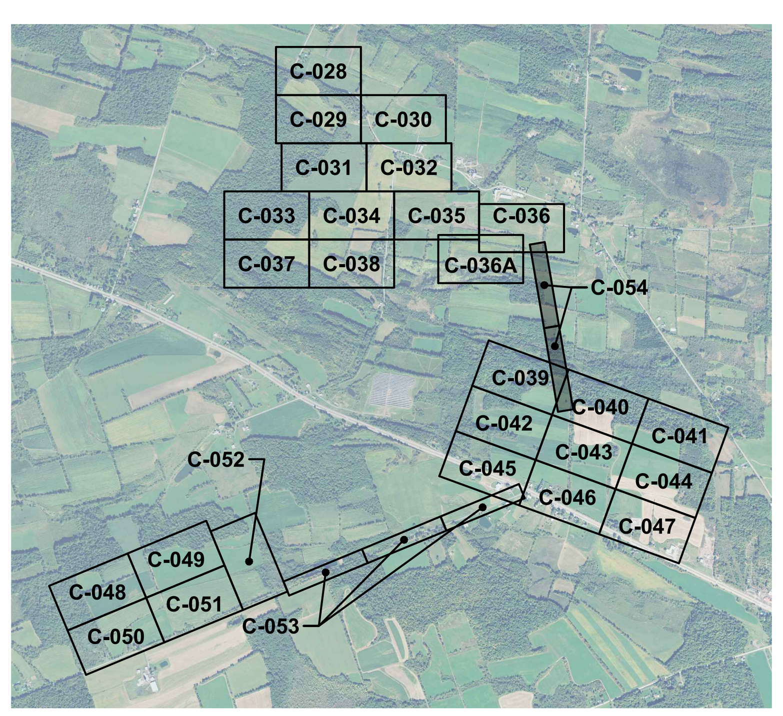
TRC

C-053

REV. B

327851-EAST POINT-OPT 2_C-053.dwg 2019.08.27

FOR CONTINUATION, SEE DRAWING C-049



KEY MAP

SCALE: 1" = 3,000'

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

327851-EAST POINT-OPT 2_C-054.dwg 2019.08.27

50 0 50 100 FT

SCALE: 1" = 50'

PERMITTING

NOT FOR CONSTRUCTION

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TRC
249 Western Avenue
Augusta, ME 04330

PROJECT NO: 327851

REFERENCE ITEMS		REV	DESCRIPTION	DATE	DES	CHK	APP
		B	ISSUED FOR PERMITTING	08-30-19	CMW	PMM	
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04/08 DATE
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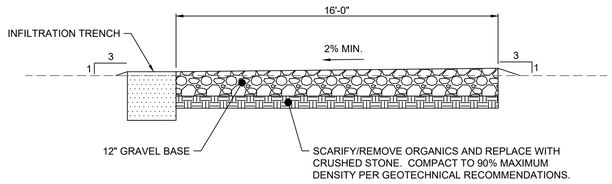
TRC

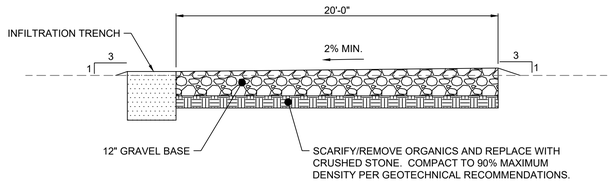
C-054

REV. B



TYPICAL ARRAY ACCESS ROAD SECTION

NOT TO SCALE



TYPICAL SUBSTATION/SWITCHYARD ACCESS ROAD SECTION

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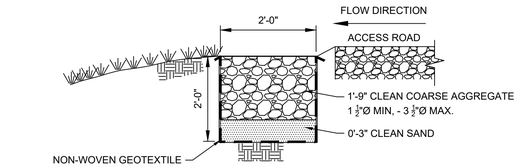
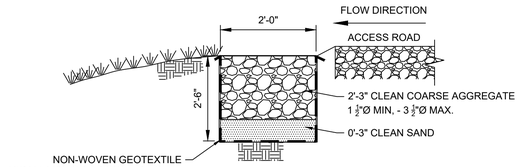
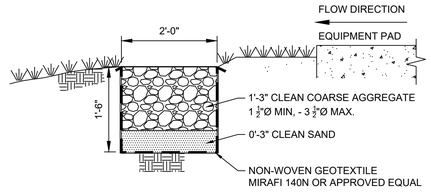


ARRAY ACCESS ROADS



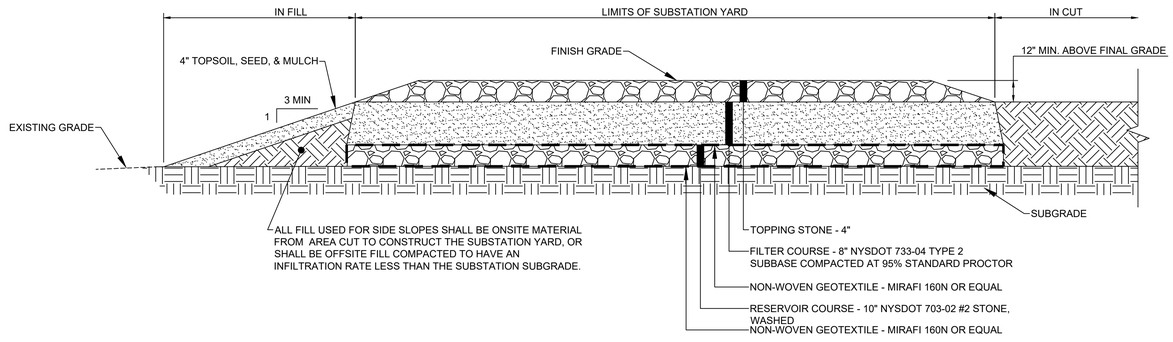
SUBSTATION & SWITCHYARD ACCESS ROADS



INVERTER PADS

INFILTRATION TRENCH DETAILS

NOT TO SCALE

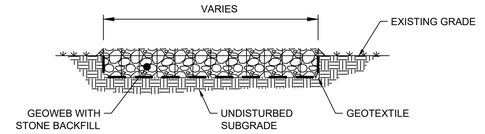


O&M YARD STORMWATER MANAGEMENT NOTES:

1. THIS ALTERNATIVE STORMWATER MANAGEMENT TYPICAL YARD SECTION IS BASED ON THE SYSTEM DEVELOPED BY NATIONAL GRID IN CONJUNCTION WITH EDR AND APPROVED BY THE STATE OF NEW YORK. THE NATIONAL GRID DISCLAIMER REQUIRED BY THEIR APPROVAL LETTER DATED FEBRUARY 25, 2016 IS INCORPORATED HEREIN BY REFERENCE.
2. ALTERNATIVE STORMWATER MANAGEMENT YARD OPTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NOTES AND DETAILS PROVIDED IN THE NATIONAL GRID LETTER ENTITLED "APPROVAL OF NATIONAL GRID'S ALTERNATIVE STORMWATER MANAGEMENT PRACTICES FOR SUBSTATION" DATED FEBRUARY 25, 2016.

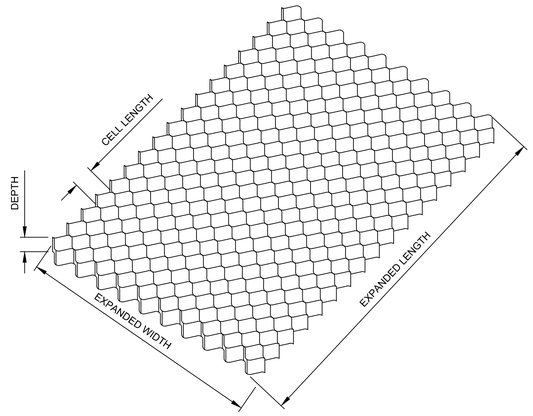
TYPICAL SUBSTATION/SWITCHYARD YARD SECTION

NOT TO SCALE

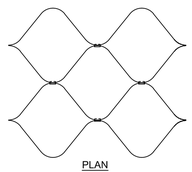


NOTES:

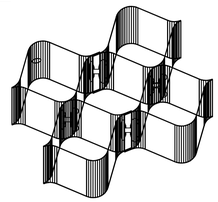
1. STRIP TOPSOIL AND STOCKPILE FOR REUSE.
2. GEOTEXTILE SHALL BE MIRAFI 500X, 600X, OR APPROVED EQUAL.
3. CELLULAR CONFINEMENT SHALL BE GEOWEB GW30V OR APPROVED EQUAL. MIN. CELL DEPTH SHALL BE 6".
4. STONE BACKFILL SHALL BE A WASHED BLEND (50/50) OF #1 AND #2 CRUSHED STONE - NYSDOT 703-02 COARSE AGGREGATE.
5. TOP DRESS GEOWEB AS NEEDED.



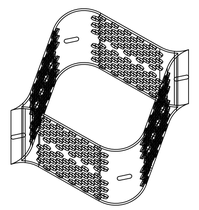
EXPANDED PERSEPECTIVE



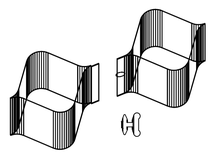
PLAN



ISOMETRIC



PERFORATED STRIP WITH I-SLOT



ISOMETRIC

CELLULAR CONFINEMENT SYSTEM - GEOWEB

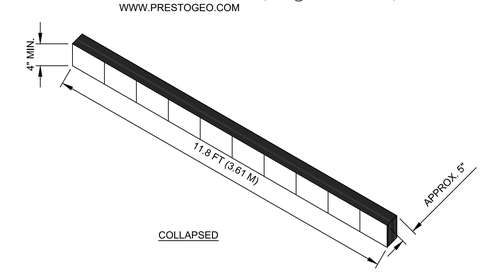
STABILIZED PERVIOUS ROAD SECTION GENERAL NOTES:

1. STABILIZED PERVIOUS ROAD SECTION IS INTENDED AS A STABILIZATION METHOD FOR ROAD MATERIALS IN LOCATIONS WHERE STORMWATER RUNOFF MAY FLOW ACROSS THE ACCESS ROAD. THE OPEN-GRADED STONE WILL ALLOW LOW FLOWS TO PASS THROUGH THE ROAD MATERIAL WHILE HIGHER FLOWS WILL PASS OVER THE ROAD. THE CELLULAR CONFINEMENT SYSTEM (GEOWEB) WILL PREVENT EROSION OF THE ROAD MATERIAL. THIS APPROACH MINIMIZES IMPACTS TO EXISTING RUNOFF PATTERNS.
2. STABILIZED PERVIOUS ROAD SECTIONS SHALL BE INSTALLED AT NATURAL LOW POINTS OF THE ACCESS ROADS AND TERRAIN WHERE STORMWATER RUNOFF IS LIKELY TO BE CONCENTRATED DUE TO EXISTING HYDROLOGY/TOPOGRAPHY, AND CULVERT INSTALLATION IS IMPRACTICAL DUE TO LIMITED COVER.
3. REMOVE STUMPS, ROCKS AND DEBRIS AS NECESSARY. FILL VOIDS TO MATCH EXISTING NATIVE SOILS AND COMPACTION LEVEL.
4. STRIPPED TOPSOIL MAY BE SPREAD IN ADJACENT AREAS AS DIRECTED BY THE PROJECT ENGINEER. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
5. REMOVE REFUSE SOILS AS DIRECTED BY THE PROJECT ENGINEER. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
6. ROADWAY WIDTH TO BE INSTALLED AS SHOWN ON PLANS.
7. THE STABILIZED PERVIOUS ROAD CROSS SLOPE SHALL BE 2% IN MOST CASES AND SHOULD NOT EXCEED 6%.
8. STABILIZED PERVIOUS ROAD SECTION IS NOT TO BE UTILIZED FOR CONSTRUCTION WHICH MAY SUBJECT THE ROAD SECTION TO SEDIMENT TRACKING. THIS SPECIFICATION IS TO BE DEVELOPED FOR POST-CONSTRUCTION USE. SOIL RESTORATION PRACTICES MAY BE APPLICABLE TO RESTORE CONSTRUCTION RELATED COMPACTION PRE-EXISTING CONDITIONS AND SHOULD BE VERIFIED BY SOIL PENETROMETER READINGS. THE PENETROMETER READINGS SHALL BE COMPARED TO THE RESPECTIVE PREVIOUSLY RECORDED READINGS TAKEN PRIOR TO CONSTRUCTION.
9. TO ENSURE THAT SOIL IS NOT TRACKED ONTO THE STABILIZED PERVIOUS ROAD SECTION, IT SHALL NOT BE USED BY CONSTRUCTION VEHICLES TRANSPORTING SOIL, FILL MATERIAL, ETC. IF ACCESS IS COMPLETED DURING THE INITIAL PHASES OF CONSTRUCTION, A STABILIZED CONSTRUCTION ACCESS/ENTRANCE IS REQUIRED TO REMOVE SEDIMENT FROM CONSTRUCTION VEHICLES AND EQUIPMENT PRIOR TO ENTERING THE STABILIZED PERVIOUS ROAD SECTION. MAINTENANCE OF THE STABILIZED PERVIOUS ROAD WILL BE REQUIRED IF SEDIMENT IS OBSERVED WITHIN THE CLEAN STONE.
10. THE DRAINAGE DITCH IS OFFERED IN THE DETAIL FOR CIRCUMSTANCES WHEN CONCENTRATING FLOW COULD NOT BE AVOIDED. THE INTENTION OF THIS DESIGN IS TO MINIMIZE ALTERATIONS TO HYDROLOGY, HOWEVER WHEN DEALING WITH 2%-15% GRADES NOT PARALLEL TO THE CONTOUR, A ROADSIDE DITCH MAY BE REQUIRED. THE NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS FOR GRASSED WATERWAYS AND VEGETATED WATERWAYS ARE APPLICABLE FOR SIZING AND STABILIZATION. DIMENSIONS FOR THE GRASSED WATERWAY SPECIFICATION WOULD BE DESIGNED FOR PROJECT SPECIFIC HYDROLOGIC RUNOFF CALCULATIONS, AND A SEPARATE DETAIL FOR THE SPECIFIC GRASSED WATERWAY WOULD BE INCLUDED IN THIS PRACTICE. RUNOFF DISCHARGES WILL BE SUBJECT TO THE OUTLET REQUIREMENTS OF THE REFERENCED STANDARD. INCREASED POST-DEVELOPMENT RUNOFF FROM THE ASSOCIATED ROADSIDE DITCH MAY REQUIRE ADDITIONAL PRACTICES TO ATTENUATE RUNOFF TO PRE-DEVELOPMENT CONDITIONS.
11. IF A ROADSIDE DITCH IS NOT UTILIZED TO CAPTURE RUNOFF FROM THE ACCESS ROAD, THE STABILIZED PERVIOUS ROAD SECTION WILL HAVE A WELL-ESTABLISHED PERENNIAL VEGETATIVE COVER, WHICH SHALL CONSIST OF UNIFORM VEGETATION, 20 FEET PARALLEL TO THE DOWN GRADIENT SIDE OF THE ACCESS ROAD. POST-CONSTRUCTION OPERATION AND MAINTENANCE PRACTICES WILL MAINTAIN THIS VEGETATIVE COVER TO ENSURE FINAL STABILIZATION FOR THE LIFE OF THE ACCESS ROAD.

GEOWEB MATERIAL NOTES:

1. CELLULAR CONFINEMENT SYSTEM SHALL BE PRESTO GEOSYSTEM GEOWEB OR APPROVED EQUAL.
2. INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. GRAVEL FILL MATERIAL SHALL CONSIST OF CLEAN, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYSDOT ITEM 703-02, SIZE DESIGNATION 3-5 OF TABLE 703-4. STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH, A TRACKED VEHICLE. GRAVEL SHALL NOT BE COMPACTED.
4. THE TOP EDGES OF ADJACENT CELL WALLS SHALL BE FLUSH WHEN CONNECTING. ALIGN THE I-SLOTS FOR INTERLEAF AND END TO END CONNECTIONS. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAD AND END TO END CONNECTIONS. REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER INSTALLATION, TYING AND CONNECTIONS.

BASIS OF DESIGN: PRESTO GEOSYSTEMS GEOWEB; 670 NORTH PERKINS STREET, APPLETON, WI; 800-548-3424 OR 920-738-1222; INFO@PRESTOGEO.COM; WWW.PRESTOGEO.COM



COLLAPSED

STABILIZED PERVIOUS ROAD SECTION

NOT TO SCALE

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PERMITTING

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TRC
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A	ISSUED FOR CLIENT REVIEW	06-20-19	PGT	TRC	

PGT DESIGNED
ESB DRAWN
PMM CHECKED
PMM APPROVED
REVIEW 1
REVIEW 2

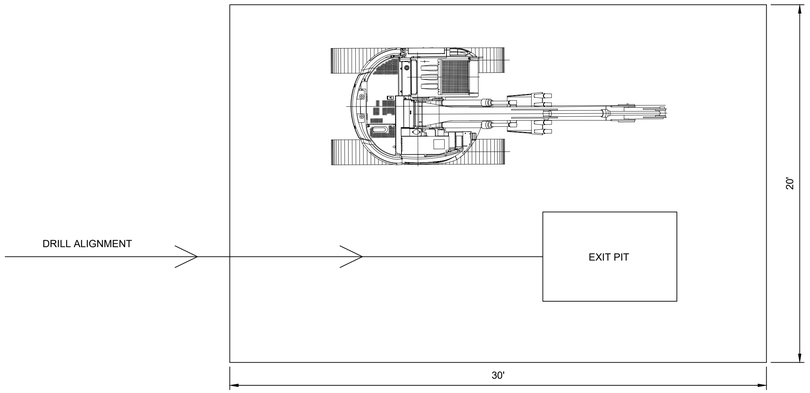
PRELIMINARY
CIVIL DETAILS 1
EAST POINT ENERGY CENTER
EAST POINT ENERGY CENTER, LLC
SHARON SCHOHARIE CO., NY

04/15 DATE
AS NOTED SCALE

TRC

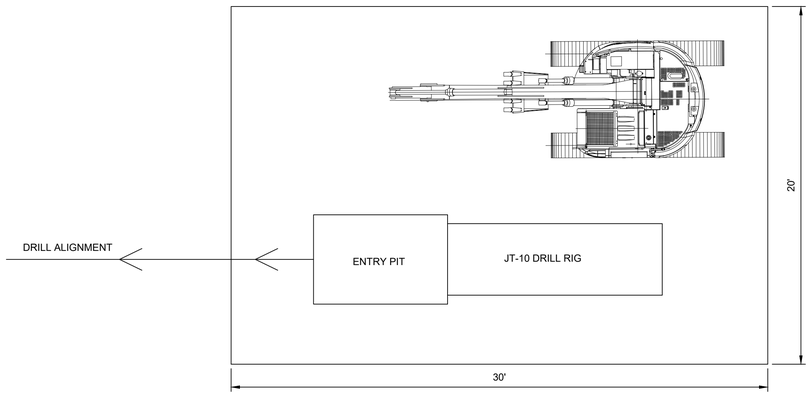
C-101

REV. D



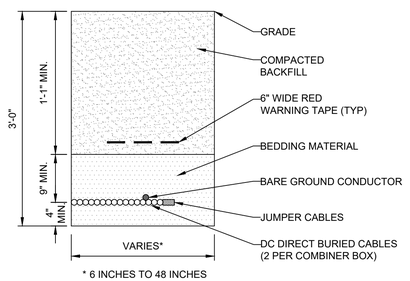
HDD RECEIVING SITE SETUP SCHEMATIC (EXIT PIT)

NOT TO SCALE



DRILL OPERATION SITE SETUP SCHEMATIC (ENTRY PIT)

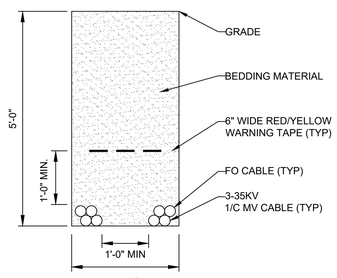
NOT TO SCALE



* 6 INCHES TO 48 INCHES

TYPICAL DC TRENCH SECTION

NOT TO SCALE



** 6 INCHES FOR 1 FEEDER
18 INCHES FOR 2 FEEDERS

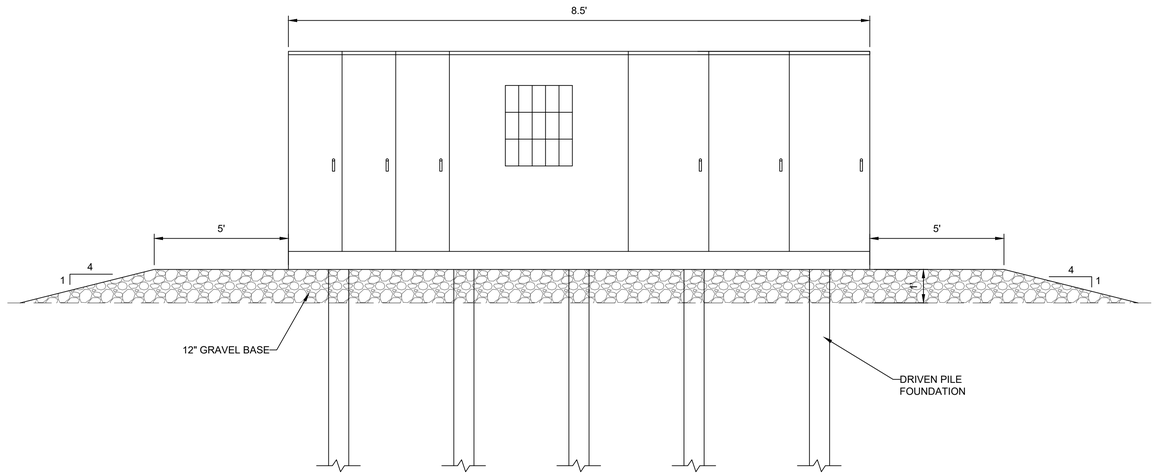
TYPICAL AC/FIBER TRENCH SECTION

NOT TO SCALE

NOTES:
1. TYPICAL TRENCH DETAILS ARE PROVIDED TO INDICATE TRENCH DIMENSIONS ONLY. COLLECTOR LINES SHOWN IN DETAILS ARE CONCEPTUAL ONLY.
2. TRENCH WIDTH VARIES BASED ON THE NUMBER OF CIRCUITS.
3. TRENCHES THROUGH ACTIVE AGRICULTURAL FIELDS SHALL PROVIDE 4 FEET OF COVER (MINIMUM) OVER CABLES.

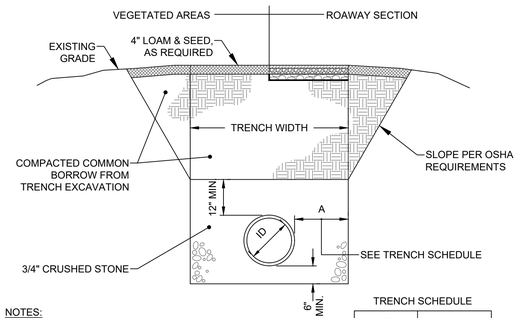
TYPICAL COLLECTOR TRENCH SECTIONS

NOT TO SCALE



INVERTER PAD DETAIL

NOT TO SCALE



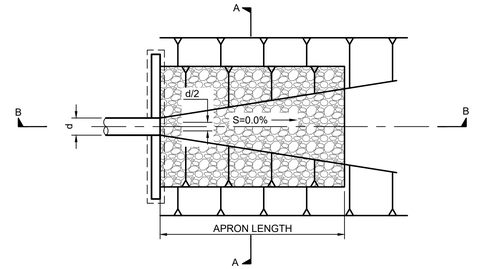
NOTES:
1. SHORE TRENCH EXCAVATION AS REQUIRED TO MINIMIZE EXCAVATION AND IMPACTS TO ADJACENT UTILITIES STRUCTURES OR PAVEMENT.
2. TRENCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS.
3. CRUSHED ROCK SHALL HAVE A MAXIMUM PARTICLE SIZE OF 1 1/2" DOWN TO 10% OR LESS PASSING A #200 U.S. STANDARD SIEVE.

TRENCH SCHEDULE

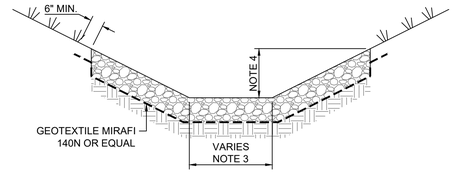
ID	A (MIN.)
4"-12"	0'-10"
15"	0'-10"
18"	0'-10"
24"	0'-6"
30"	0'-6"
36"	0'-6"

TYPICAL CULVERT PIPE TRENCH DETAIL

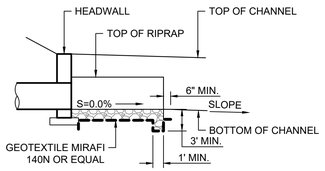
NOT TO SCALE



PLAN VIEW



SECTION A-A



SECTION B-B

TABLE 1 - RIP RAP OUTLET DIMENSIONS			
CULVERT ID#	DIAMETER	APRON LENGTH	D50 RIPRAP SIZE
1P	(2) 54" RCP	14 FEET	6 INCHES
2P	(2) 48" RCP	20 FEET	6 INCHES
3P	(2) 54" RCP	25 FEET	6 INCHES
4P	(2) 36" RCP	14 FEET	6 INCHES
5P	(2) 54" RCP	20 FEET	6 INCHES
6P	(2) 30" RCP	9 FEET	6 INCHES
7P	18" RCP	9 FEET	6 INCHES
8P	18" RCP	9 FEET	6 INCHES
9P	18" RCP	9 FEET	6 INCHES

NOTES:
1. CONSTRUCT RIPRAP PROTECTION IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
2. OUTLET PROTECTION DIMENSIONS TO BE AS INDICATED BY TABLE 1.
3. BOTTOM WIDTH VARIES FROM d/2 AT PIPE OUTLET TO FULL CHANNEL WIDTH AT END OF APRON.
4. SIDE SLOPE VARIES FROM 2:1 AT PIPE OUTLET TO FLAT AT APRON LIMITS.

RIPRAP OUTLET APRON DETAIL

NOT TO SCALE

PERMITTING

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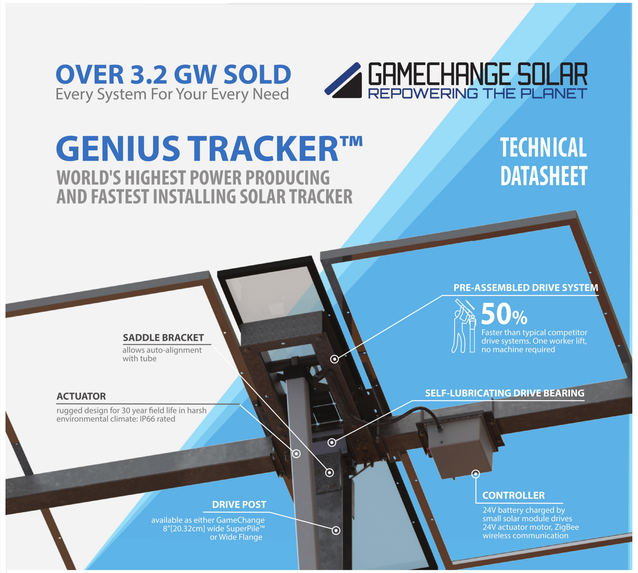
PRELIMINARY
CIVIL DETAILS 2
EAST POINT ENERGY CENTER
EAST POINT ENERGY CENTER, LLC
SHARON SCHOHARIE CO., NY

04/15 DATE
AS NOTED SCALE

TRC

C-102

REV. C



OWNERS BENEFITS

UP TO **6.75%** **MORE POWER PRODUCTION**

RESULTS IN HIGHER KWH OUTPUT & UP TO 40% HIGHER ROE

Varies based on project specifics

INSTALLERS BENEFITS

FASTEST INSTALLING SYSTEM

ADVANCED DESIGN INNOVATIONS AND PRE-ASSEMBLED COMPONENTS

SpeedClamp™ — No Mounting Hardware Speeds Module Installation Up To: **40%**

QuikClamp™ — FSLR Series 4 Module Installation Speeds Up To: **30%**

OVER 3.2 GW SOLD
Every System For Your Every Need
GAMECHANGE SOLAR
REPOWERING THE PLANET

GENIUS TRACKER™ OWNERS BENEFITS

UP TO 40% HIGHER ROE

Combine to increase owner cash flow of sample project to $17MM cash flow vs $13MM & $15MM for competitors

Higher Module Density - increased row spacing means more time facing the sun and less time running from the shade, adds up to 5% more power production than competitors

WeatherSmart™ - AI technology optimizes tilt angle based on weather data to maximize power production, adds up to 1.25% additional power production

PowerBoost™ - Smart optimization allows table rows to respond individually based on topography to prevent shading, adds up to 0.5% additional power production, Available in Q4 2018

LOWEST O & M COST

Lowest grass cutting & module washing cost

Zero maintenance drive system

INSTALLERS BENEFITS

FASTEST INSTALLING SYSTEM

Advanced design innovations & pre-assembled components

Pre-assembled Drive Arm - can be lifted by one worker, no machine required. 50% faster than typical competitors

SpeedClamp™ - Mounts modules with no mounting hardware, speeds module installation up to 40%

QuikClamp™ - Speeds install for FSLR Series 4 modules up to 30%

GameChange Solar
152 W 57 Street 17FL
New York, NY 10019
Phone: 212-388-5160
Fax: 646-607-2223
Email: info@gamechangesolar.com

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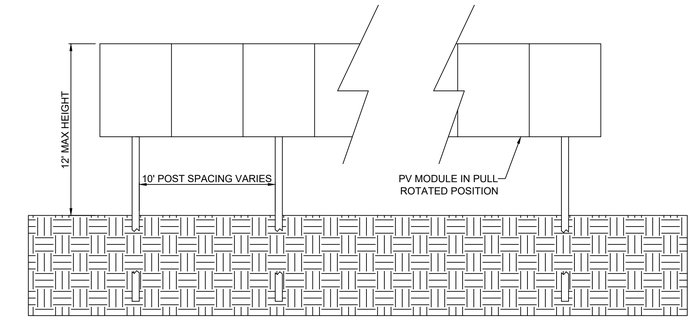
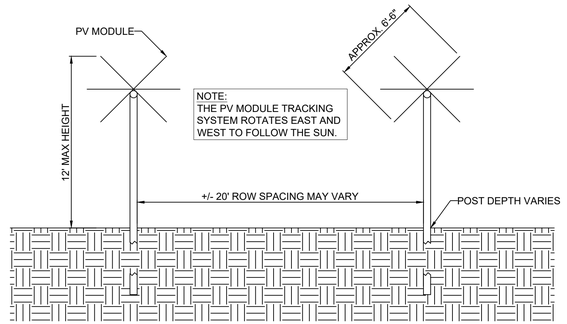
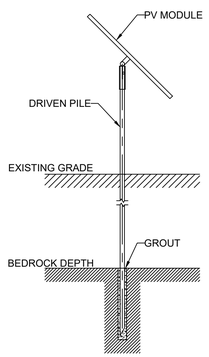
Modules	Supporting Type	Most commercially available, including frameless crystalline and thin film
Civil	Slope Tolerance (N-S)	7% standard, can go to 15% special order
	Slope Tolerance (E-W)	15% **Tracker follows slope** (T/B) Yes
Structural	Drive Type	Robust linear actuator stainless steel & aluminum
	Piles per MW	450/MW typical
	Operating Wind Load	105mph(Std) / 130mph(Premium 1) / 150mph(Premium 2) / 175mph(Premium 3)
	Snow Load	5psf(Std) / 20psf(Premium 1) / 40psf(Premium 2) / 60 psf(Premium 3)
	Tracking Range (Std)	45°, 52° **Tracking Range (Premium)** 60°
	Pile Sections	G235 galvanized steel (or HDG option) roll formed standard posts, HDG wide flange option also available
	Pile Size (Interior) & (Exterior)	6" X 6" roll form shape or W6x7 or W6x9 or W6x15 wide flange
	Motor Foundation	6.5"x 8" roll form hat or W6x15 or larger wide flange
	Standard Embedment	5 - 7 ft **Flood Plain Allowance** Up to 6 feet
Design	Module Configuration	1 up in portrait for crystalline, FSLR Series 6, 2 up landscape for Bifacial, 3 to 4 up landscape FSLR Series 4
	Modules per Table	Up to 340 ft. (for example 182 72 cell crystalline)
	Module Attachment	SpeedClamp™ or Bolts available for bottom mount frame modules or clamps for glass on glass modules
	Ground Coverage Ratio	0.25 to 0.65
	Rows per Drive	1 drive per tracker(table), distributed drive system
	Powering System	Onboard solar module with battery or wireline power
	Compliance	UL 2703 / 3703
	Ground Clearance To Module	2 ft
	Min / Max Ground to Top of Pier	51° typical / ground clearance + 51° + 9° adjustment range
	Backtracking	Yes, although can be turned off as requested (i.e.for FSLR modules)
	Temperature Range	-20° C + 48° C
	FCC 3rd party design verified	Compliant with FCC guidelines
Self Perform	Specialty Tools Required	No
	Mechanical Installation	Available
	Max offload for deliveries	As per customer requirement
Electrical	Tracking Method	Time and location based algorithm
	String Design	Compatible with any string size
	Cable Supports	Free hole punching as per customer requirement
	Linear Actuator Motor	24 volt DC
	Controller Box	Zigbee® wireless communications, 24v solar panel and battery or wireline power
	Control System	Master to Node: Zigbee® wireless communications Master to SCADA/DAS: MODBUS communications
	# of Motors	28 to 52 / MW depending on panel wattage and loading conditions (3S for typical conditions)
	1000V System or 1500V System	Both
	Grounding Method	Tracker structure is part of grounding path per UL 2703
	UL Listed Assembly	UL 2703 / UL3703
	NEMA Ratings	IP66 stroke tube end /67 waterproof motor end (NEMA 3s/4 equivalent)
	# Weather Station	1 per 6 MW typical
	Monitoring System	Web portal interface available Compatible with all standard third party monitoring vendors
	Snow & Flood Sensors	Move panels to optimum location for weather events
	Backup Power	Solar module and battery providing integrated backup - 3 days
O & M	Warranty	5 year drive & control, 10 year structural standard, 10 /20 also available
Shipping	Max load	45,000 lbs. per truckload 5,000 lbs. maximum bundle size 2,900 lbs. or other maximum as requested by customers
	Shipping Containers or flatbeds	Flat beds for structure, dry vans for hardware
	# Trucks per MWdc	2.76 typical
Commissioning	Backfeed required?	No, Generator for power to master as alternative



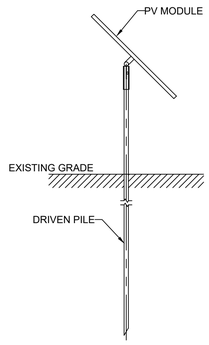
TRACKER RACK ELEVATION DETAIL
NOT TO SCALE



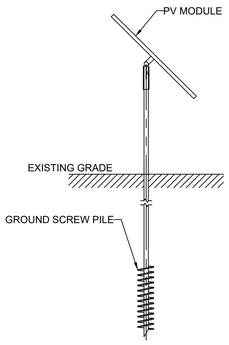
TRACKER RACK SECTION DETAIL
NOT TO SCALE



TYPICAL GROUTED PILE WITH CAP DETAIL
NOT TO SCALE



TYPICAL DRIVEN PILE WITH CAP DETAIL
NOT TO SCALE



TYPICAL GROUND SCREW PILE WITH CAP DETAIL
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PERMITTING
NOT FOR CONSTRUCTION

Call 811 before you dig

TRC
249 Western Avenue
Augusta, ME 04330

PROJECT NO: 327851

REV	DESCRIPTION	DATE	DES	CHK	APP
D	ISSUED FOR PERMITTING	08-30-19	CMW	PMM	
C	ISSUED FOR REVIEW	08-22-19	CMW	RAY	
B	ISSUED FOR CLIENT REVIEW	08-02-19	CMW	PMM	
A	ISSUED FOR CLIENT REVIEW	06-20-19	CMW	PMM	

PGT DESIGNED
ESB DRAWN
RAY CHECKED
PMM APPROVED
REVIEW 1
REVIEW 2

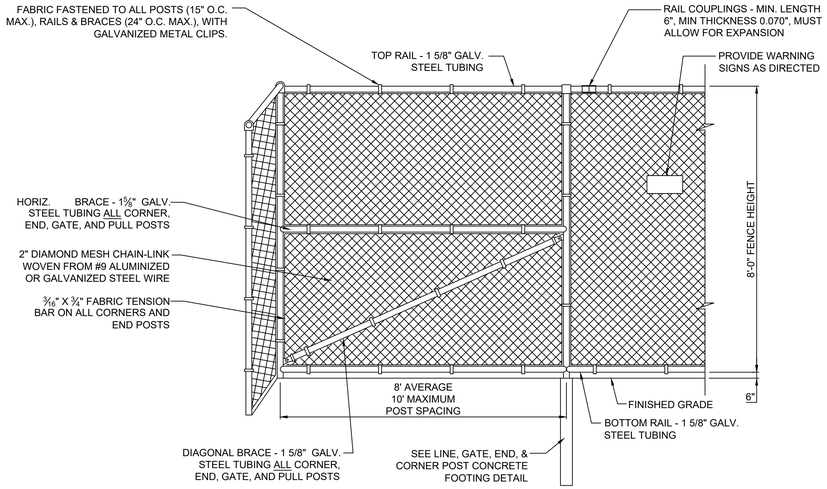
PRELIMINARY
SOLAR PANEL & RACKING DETAILS 1
EAST POINT ENERGY CENTER
EAST POINT ENERGY CENTER, LLC
SHARON SCHOHARIE CO., NY

04/15 DATE
AS NOTED SCALE

TRC

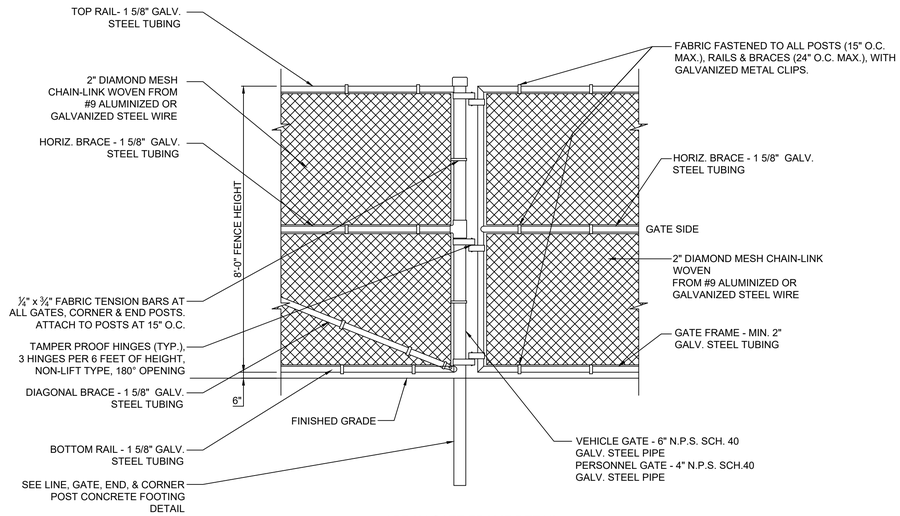
C-103

REV. D



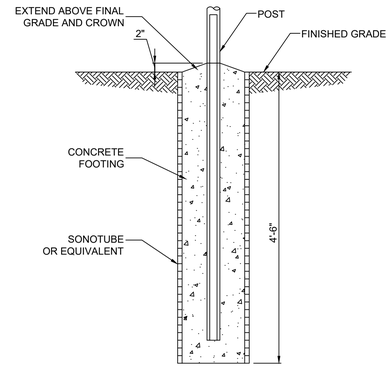
ARRAY FENCE DETAILS

NOT TO SCALE



ARRAY GATE FRAME DETAIL

NOT TO SCALE

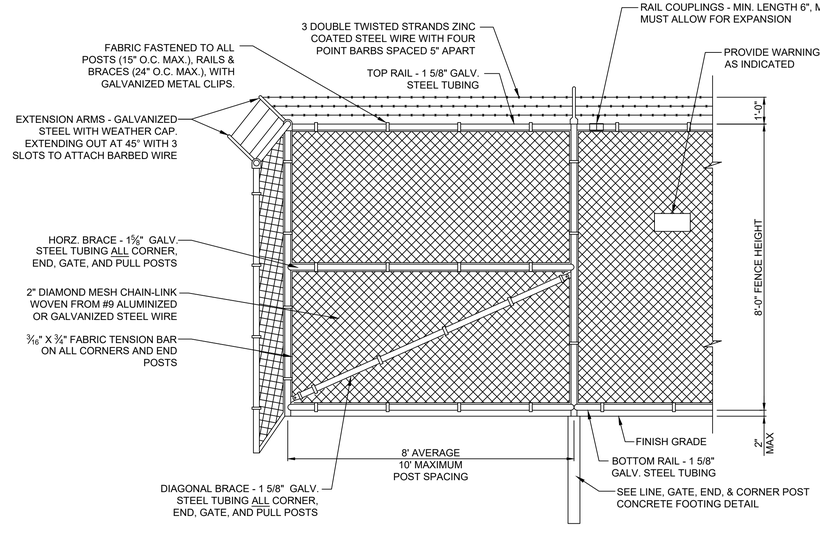


POST USE	LINE	VEHICLE GATE	PERSONNEL GATE	CORNER	END
NOMINAL PIPE SIZE (INCHES)	3	6	4	4	4
SONOTUBE SIZE (INCHES)	12	24	24	12	12

FOOTING NOTES:
1. UNLESS OTHERWISE INDICATED, FENCE POST SIZES ARE INDUSTRY STANDARD NOMINAL SIZES IN ACCORDANCE WITH ASTM F 1083, GALVANIZED STEEL PIPE.
2. BACKFILL SONOTUBE WITH MIN. 3,000 PSI CONCRETE.
3. ALL CONCRETE SHALL BE SINGLE POUR TO FINAL GRADE.
4. WHEN INSTALLING POSTS IN CLAY:
   - POST HOLE DEPTH SHALL BE INCREASED TO 6 FEET.
   - BACKFILL 4 FEET WITH CONCRETE.
   - BACKFILL FINAL 2 FEET WITH NATIVE SOIL.
5. WHEN INSTALLING POSTS IN LEDGE, CORE AND GROUT POSTS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

LINE, GATE, END, & CORNER POST CONCRETE FOOTING DETAIL

NOT TO SCALE



SUBSTATION FENCE DETAILS

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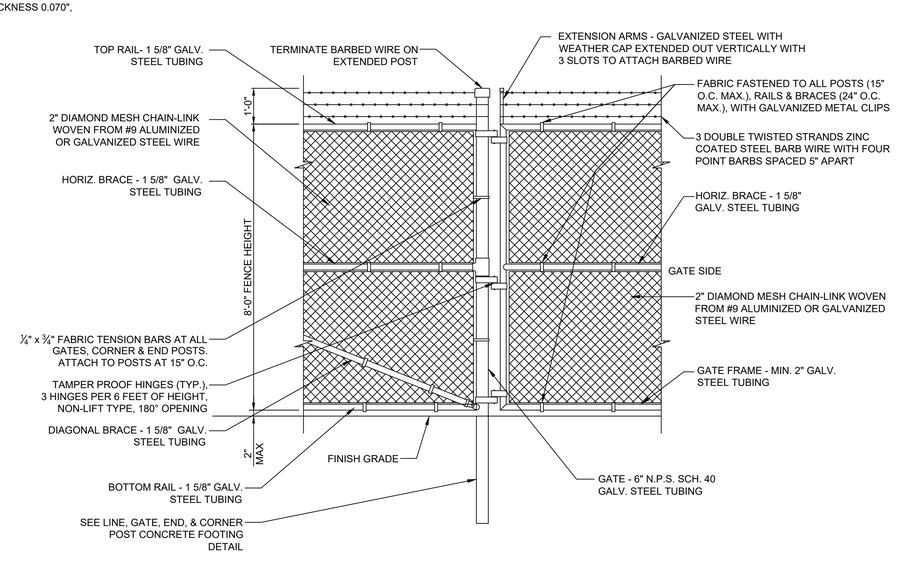

SUBSTATION GATE FRAME DETAIL

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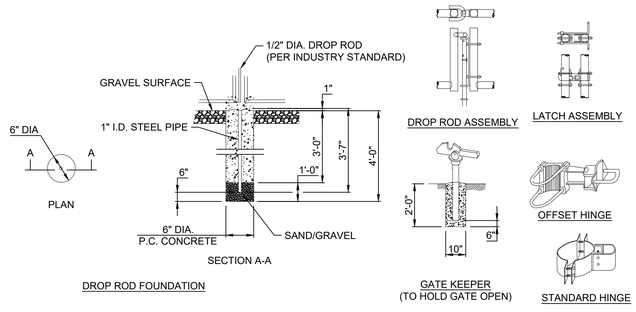

ACCESS GATE DETAILS

NOT TO SCALE

GENERAL FENCING NOTES:
1. ALL ITEMS SHALL BE GALVANIZED AND ZINC COATED TO ASTM SPECIFICATIONS, INCLUDING ALL POSTS, RAILS, GATES, AND HARDWARE.
2. GATE FENCE FABRIC SHALL BE MOUNTED INSIDE THE FRAME.
3. All SWING GATE OPENINGS SHALL BE 24 FEET UNLESS OTHERWISE SPECIFIED.
4. SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY, AND GATE KEEPERS.
5. BOLTS AND HINGES SHALL BE OF A TAMPER-PROOF TYPE.
6. EXPOSED BOLTS AND NUTS SHALL BE SPOT WELDED.
7. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL FENCE AND GATE REQUIREMENTS

PERMITTING

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PRELIMINARY
FENCING DETAILS
EAST POINT ENERGY CENTER
EAST POINT ENERGY CENTER, LLC
SHARON SCHOHARIE CO., NY

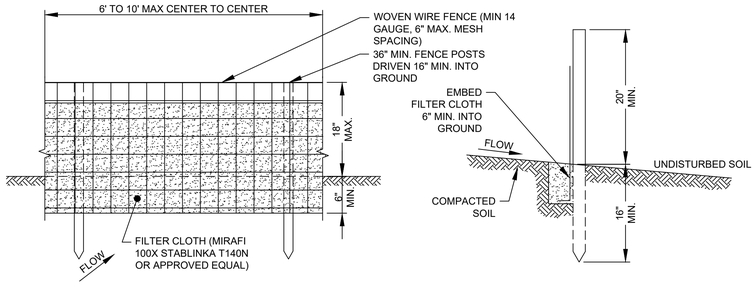
04/15 DATE
AS NOTED SCALE

TRC

C-104

REV. D

327851-EAST POINT-OPT 2_C-105.dwg 2019.08.26



ELEVATION

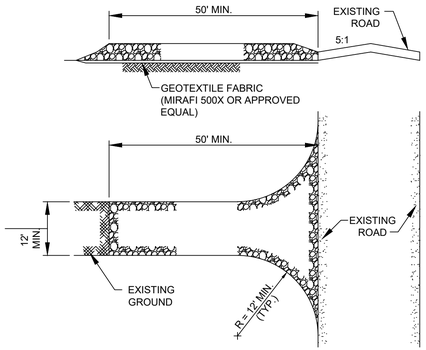
SECTION

1. WOVEN WIRE FENCE SHALL BE FASTENED TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MIDSECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BUILD-UP REACHES ⅓ THE HEIGHT OF THE FENCE.

POSTS:	STEEL "T" OR "U" TYPE OR 2" HARDWOOD.
FENCE:	WOVEN WIRE. 14½ GA 6" MAX MESH OPENING.
FILTER CLOTH:	FILTER X, MIRAFI 100X. STABLINKA T140N OR APPROVED EQUAL.
PREFABRICATED UNIT:	ENVIROFENCE OR APPROVED EQUAL

SILT FENCE DETAILS

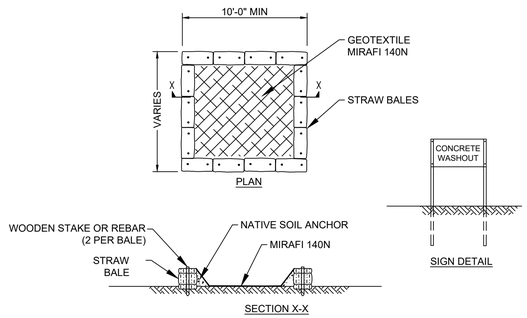
SCALE: N.T.S.



1. STONE SIZE - USE 1" - 4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MIN. BUT NOT LESS THAN THE FULL ROAD WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. PROVIDE TWENTY-FOUR (24) FOOT WIDTH IF THERE IS ONLY A SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
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 MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S.

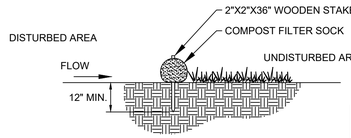


NOTES:

1. SUMP(S) SHALL BE LOCATED NEAR WORK SITES BUT SHALL BE PLACED AS FAR AWAY FROM WETLANDS, BUFFERS AND DRAINAGE SWALES AS PRACTICAL.
2. SUMP(S) SHALL BE CLEANED AND WASTE CONCRETE REMOVED AND PROPERLY DISPOSED OF PERIODICALLY AND UPON COMPLETION OF WORK.

TYPICAL CONCRETE WASHOUT

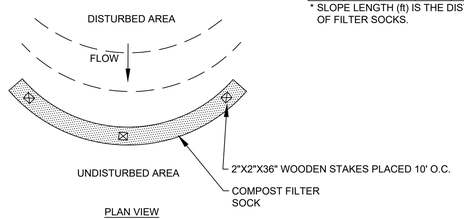
SCALE: N.T.S.



SECTION VIEW

DIA. (in.)	MAXIMUM SLOPE LENGTH SLOPE						
	2 %	5 %	10 %	20 %	25 %	33 %	50 %
8	225*	200	100	50	20	--	--
12	250	225	125	65	50	40	25
18	275	250	150	70	55	45	30
24	350	275	200	130	100	60	35
32	450	325	275	150	120	75	50

* SLOPE LENGTH (ft) IS THE DISTANCE BETWEEN ROWS OF FILTER SOCKS.



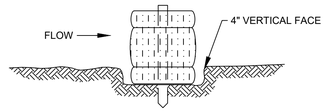
PLAN VIEW

NOTES:

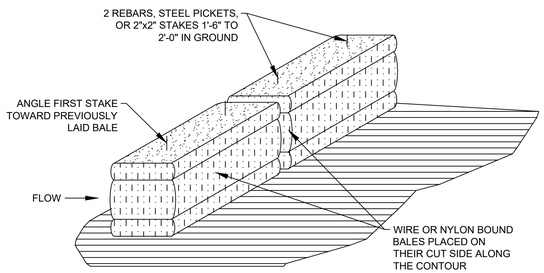
1. COMPOST FILTER SOCK MATERIALS, INSTALLATION, AND MAINTENANCE SHALL CONFORM TO SPECIFICATIONS PROVIDED IN NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (LATEST EDITION).
2. ENDS OF FILTER SOCK SHALL EXTEND UP-SLOPE 8 FEET (MIN.) AT AN ANGLE OF 45°.

TYPICAL COMPOST FILTER SOCK

SCALE: N.T.S.



EMBEDDING DETAIL



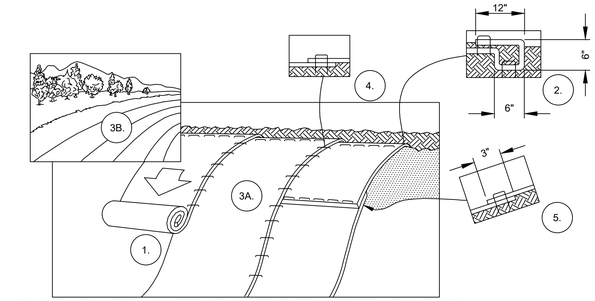
ANCHORING DETAIL

NOTES:

1. BALES SHALL BE PLACED IN A ROW AT THE TOE OF A SLOPE OR ON THE CONTOUR, WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY DRIVING EITHER TWO STAKES OR RE-BARS THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE TOP OF BALE.
4. INSPECTIONS SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULLNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAW BALE BARRIER

SCALE: N.T.S.



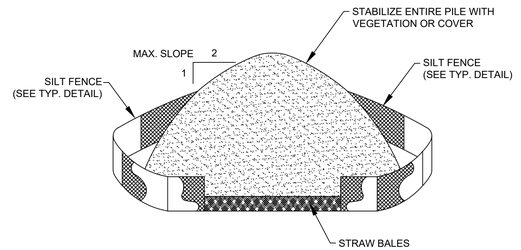
EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL.

1. PREPARE SOIL BEFORE INSTALLING BLANKETS BY SMOOTHING THE SURFACE, REMOVING DEBRIS AND LARGE STONES, AND APPLICATION OF ANY NECESSARY 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.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED 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 OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. 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 APPROXIMATELY 2"-5" 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 (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:
*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 INSTALLATION

SCALE: N.T.S.



INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAW BALES, THEN STABILIZED WITH VEGETATION OR COVERED.

TYPICAL TOPSOIL STOCKPILE

SCALE: N.T.S.

PERMITTING
NOT FOR CONSTRUCTION

Call 811 Before You Dig

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

TRC
249 Western Avenue
Augusta, ME 04330

PROJECT NO: 327851

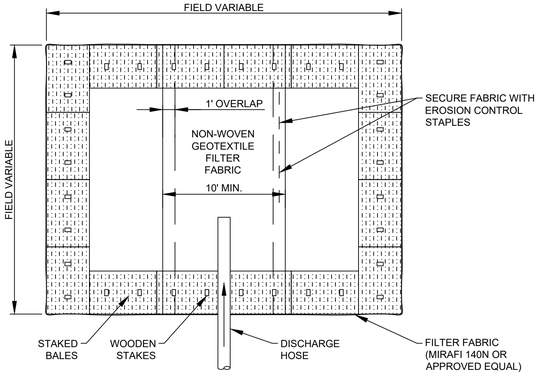
REV	DESCRIPTION	DATE	DES	CHK	APP
E	ISSUED FOR PERMITTING	08-30-19	CMW	PMM	
D	ISSUED FOR CLIENT REVIEW	08-22-19	CMW	RAY	
C	ISSUED FOR CLIENT REVIEW	08-02-19	CMW	TRC	PMM
B	ISSUED FOR CLIENT REVIEW	06-20-19	PGT	TRC	PMM

PGT DESIGNED
ESB DRAWN
TRC CHECKED
PMM APPROVED
REVIEW 1
REVIEW 2
04/15 DATE
AS NOTED SCALE

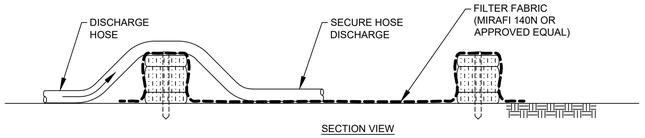
PRELIMINARY
EROSION & SEDIMENT CONTROL DETAILS 1
EAST POINT ENERGY CENTER
EAST POINT ENERGY CENTER, LLC
SHARON SCHOHARIE CO., NY

TRC
C-201
REV. E

327851-EAST POINT-OPT 2_C-201.dwg 2019.08.22



PLAN VIEW

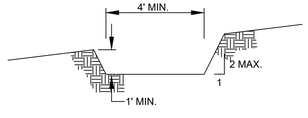


SECTION VIEW

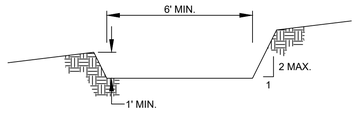
NOTES:
1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
2. THE BASIN SHALL BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.
3. KEEP AS FAR FROM WETLANDS AS PRACTICAL.
4. CLEAN AND REMOVE AS SOON AS DEWATERING IS COMPLETE.

TYPICAL DEWATERING BASIN

SCALE: N.T.S.



SECTION VIEW
SWALE TYPE A (5 AC OR LESS)



SECTION VIEW
SWALE TYPE B (GREATER THAN 5 AC)

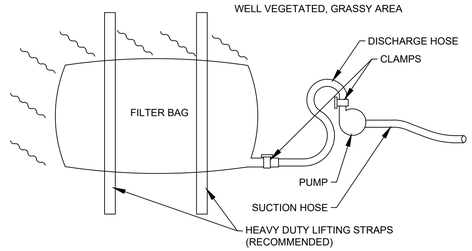
NOTES:
1. ALL CONSTRUCTION DITCHES SHALL HAVE UNINTERUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTUBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT A NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTION OF THE DITCH.
5. DITCHES SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EXCAVATED MATERIAL NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SUCH THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DITCH.
8. STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

CHANNEL GRADE	TYPE A DITCH (5 AC OR LESS)	TYPE B DITCH (GREATER THAN 5 AC)
0.5-3.0%	SEED & STRAW MULCH	SEED & STRAW MULCH
3.1-5.0%	SEED & STRAW MULCH	SEED AND COVER W/ RECP
5.1-8.0%	SEED AND COVER W/ RECP	LINED 4-8" RIP RAP OR GEOTEXTILE
8.1-10%	LINED 4-8" RIP RAP OR GEOTEXTILE	ENGINEERED DESIGN

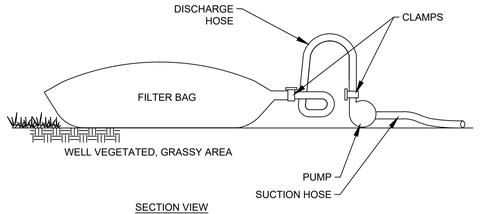
9. INSPECT AND PROVIDE MAINTENANCE AFTER EACH RAIN EVENT.
10. FIGURE IS BASED ON NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

TEMPORARY SWALE DETAIL

SCALE: N.T.S.



PLAN VIEW

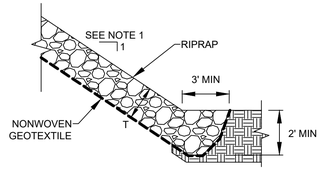


SECTION VIEW

NOTES:
1. THE GEOTEXTILE MATERIAL USED TO CONSTRUCT THE FILTER BAG SHALL MEET OR EXCEED THE SPECIFICATIONS PROVIDED IN THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL - 2016" OR LATEST EDITION. THE BAG SHALL BE SEWN WITH A DOUBLE NEEDLE MACHINE USING HIGH STRENGTH DOUBLE STICHED "J" TYPE SEAMS (ASTM D4884).
2. GEOTEXTILE FILTER BAGS SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS BASED ON THE PUMP DISCHARGE RATE.
3. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 75% FULL. THE ACCUMULATED SEDIMENT DISPOSAL SHALL BE MANAGED IN CONFORMANCE WITH THE PROJECT SWPPP.
4. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. IT IS RECOMMENDED THAT BAGS BE PLACED ON STRAPS AS SHOWN TO FACILITATE REMOVAL.
5. BAGS SHALL BE LOCATED IN A WELL-VEGETATED (GRASSY) AREA AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE THEIR DISCHARGE CAPACITY.
6. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
7. BAGS SHALL NOT BE PLACED WITHIN 50 FEET OF WETLANDS, STREAMS, OR OTHER SURFACE WATERS.
8. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. A COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS PLACED WHERE A GRASSY AREA IS NOT AVAILABLE. A COMPOST FILTER SOCK MUST BE PLACED BELOW ANY BAG DISCHARGING TO A SPECIAL PROTECTION SURFACE WATER.
9. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
10. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 50 PERCENT OF THE MAXIMUM RATE SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PROVIDE FLOATING SUCTION SCREENS AT THE WATER SOURCE.
11. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

SEDIMENT FILTER BAG

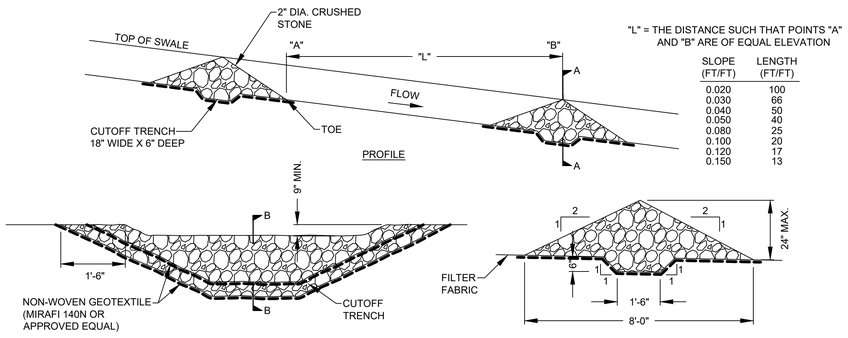
SCALE: N.T.S.



NOTES:
1. ALL SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH RIPRAP.
2. RIPRAP GRADATION SHALL BE D_{50}=6".
3. MINIMIMUM RIPRAP THICKNESS (T) OF RIPRAP COVER SHALL BE 15".
4. GEOTEXTILE SHALL BE MIRAFI 140NL OR APPROVED EQUAL.

TYPICAL RIPRAP SLOPE DETAIL

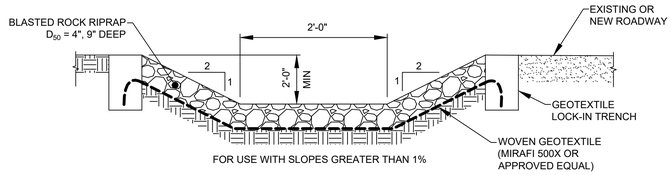
SCALE: N.T.S.



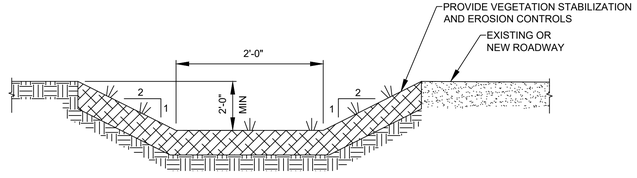
NOTE: INSTALL WHERE INDICATED ON SITE GRADING PLAN AND AS NEEDED BY SPACING REQUIREMENTS.

TYPICAL CHECK DAM DETAIL

SCALE: N.T.S.



RIPRAP STABILIZATION



VEGETATION STABILIZATION

NOTES:
1. DRAINAGE SWALE PROFILE SHALL BE MODIFIED TO TRANSITION WHERE IT TIES INTO EXISTING SWALES. TRANSITION LENGTH SHALL BE COORDINATED WITH ON-SITE ENVIRONMENTAL INSPECTOR.
2. SWALE SHALL DISCHARGE TO STABILIZED LEVEL SPREADERS, CONTAINMENT OR OTHER STRUCTURES PROVIDED TO CONTROL EROSION RUN-OFF.
3. PROVIDE STABILIZATION AND EROSION CONTROLS AS REQUIRED BY THE ON-SITE ENVIRONMENTAL INSPECTOR IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

TYPICAL DRAINAGE SWALE

SCALE: N.T.S.

PERMITTING
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PRELIMINARY
EROSION & SEDIMENT CONTROL DETAILS 2
EAST POINT ENERGY CENTER
EAST POINT ENERGY CENTER, LLC
SHARON SCHOHARIE CO., NY

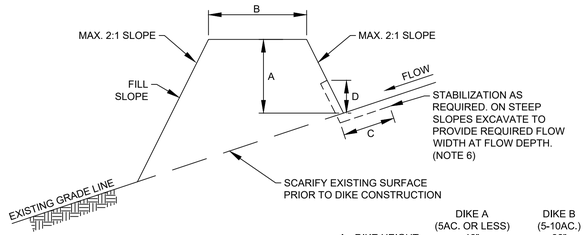
04/15 DATE
AS NOTED SCALE

TRC

C-202

REV. D

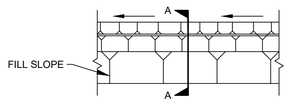
327851-EAST POINT-OPT 2_C-202.dwg 2019.08.22



SECTION A-A

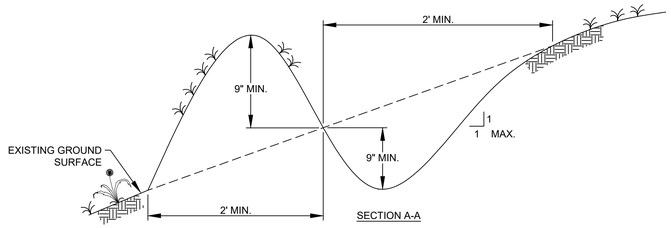
	DIKE A (5AC. OR LESS)	DIKE B (5-10AC.)
A - DIKE HEIGHT	18"	36"
B - DIKE WIDTH	24"	36"
C - FLOW WIDTH	48"	72"
D - FLOW DEPTH	8"	15"

POSITIVE DRAINAGE-GRADE SUFFICIENT TO DRAIN

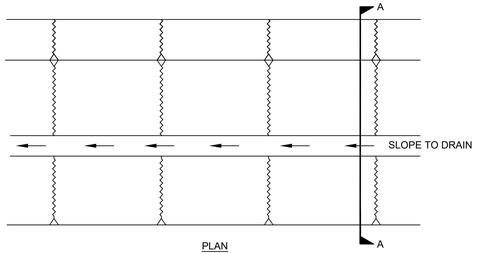


NOTES:
1. DIKES SHALL BE COMPACTED TO NOT LESS THAN THE IN-SITU SOIL DENSITY.
2. PROVIDE POSITIVE DRAINAGE TO AN APPROVED, STABILIZED OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES FLATTER AS REQUIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN.
6. PROVIDE FLOW CHANNEL STABILIZATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (2016)".

TYPICAL EARTH DIKE DETAIL
SCALE: N.T.S.



SECTION A-A



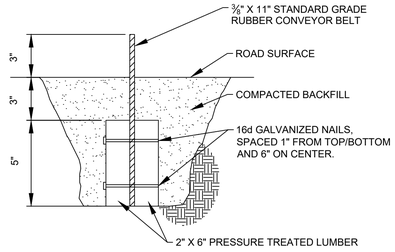
PLAN

NOTES:
1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSION VELOCITY.
4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL - 2016".
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR THE TEMPORARY SEEDING AND MULCHING, AND SHALL BE DONE WITHIN 2 DAYS.
6. PROVIDE PERIODIC INSPECTION AND REQUIRED MAINTENANCE AFTER EACH RAIN EVENT.

MAX. DRAINAGE AREA LIMIT= 2 ACRES

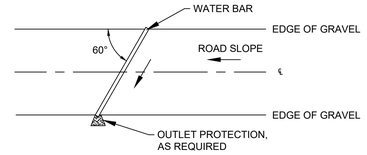
TYPICAL PERIMETER DIKE/SWALE
SCALE: N.T.S.

OPTION 1 - SECTION VIEW



OPTION 2 - SECTION VIEW

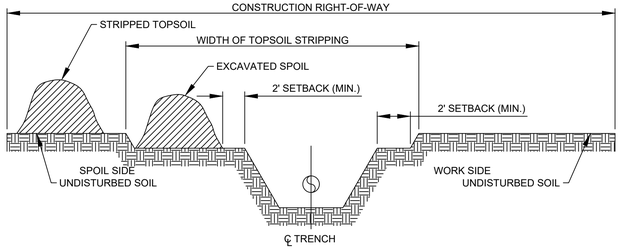
WATER BAR SPACING CRITERIA	
ROAD SLOPE	SPACING (FT)
< 5%	125
5%-10%	100
10%-20%	75
20%-35%	50
> 35%	25



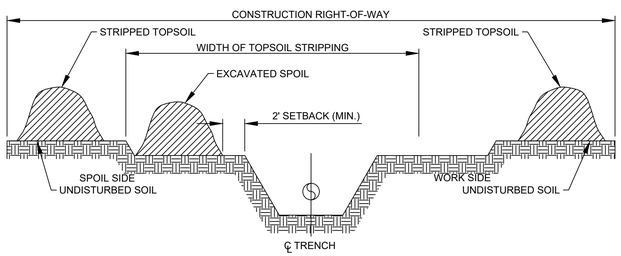
PLAN VIEW

NOTES:
1. INSTALL WATER BAR AS SOON AS RIGHT OF WAY IS CLEARED AND GRADED.
2. STRIP VEGETATION FROM THE BASE FOR THE EARTHEN BERM BEFORE PLACING FILL.
3. COMPACT THE BERM TO THE DESIGN CROSS SECTION.
4. THE UNRESTRICTED OUTLET SHALL DISCHARGE TO AN UNDISTURBED OR STABILIZED AREA.
5. VEHICLE CROSSINGS SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE SEEDED AND MULCHED WITHIN 2 DAYS.
6. PERIODICALLY INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.
7. THE OPTION 2 WATER BAR IS AN ALTERNATIVE TO BE USED IN HIGH TRAFFIC AREAS, AND SHALL ONLY BE USED WITH NYSDEC APPROVAL.

TEMPORARY WATER BAR
SCALE: N.T.S.



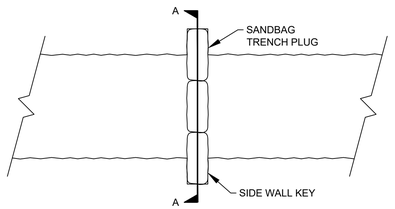
DITCH PLUS SPOILSIDE TOPSOIL SEGREGATION



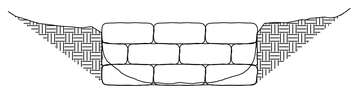
FULL RIGHT-OF-WAY TOPSOIL STRIPPING

NOTES:
1. TOPSOIL MAY BE STORED IN LOCATIONS AS SHOWN ABOVE, OR AT OTHER COMPANY APPROVED LOCATIONS WITHIN THE CONSTRUCTION R.O.W.
2. LEAVE GAPS IN SPOIL PILES FOR WATER RUN-OFF.
3. CONSTRUCTION R.O.W. MAY BE EXPANDED UP TO FULL R.O.W. WIDTH IN NON-WETLAND AREAS, FOR TOPSOIL SALVAGE.

TOPSOIL SEGREGATION METHODS - COLLECTOR
SCALE: N.T.S.



PLAN VIEW



SECTION A

NOTES:
1. AFTER TRENCH EXCAVATION TO EDGE OF STREAM, HAND DRESS BOTTOM OF TRENCH IN VICINITY OF PLANNED PLUG CONSTRUCTION.
2. EXCAVATE KEY INTO TRENCH SIDE WALL. EXCAVATE TO PROVIDE VERTICAL SURFACE NOT LESS THAN 6" INTO BANK.
3. CONSTRUCT SANDBAG TRENCH PLUG USING SANDBAGS FILLED WITH CLEAN, FINE SAND.
4. BACK FILL KEY WAY TO PROVIDE COMPACTED NATIVE SOIL AGAINST SANDBAGS.
5. BACK FILL TRENCH CONCURRENT WITH CABLE PLACEMENT. REMOVE SANDBAG TRENCH PLUG AS CABLE IS PLACED.
6. PROVIDE STREAM BED AND EMBANKMENT PROTECTION PER "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" - 2016.

TYPICAL TRENCH PLUG
SCALE: N.T.S.

PERMITTNG
NOT FOR CONSTRUCTION

Dig Safely. New York Call 811 before you dig

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SHARON SCHOHARIE CO., NY

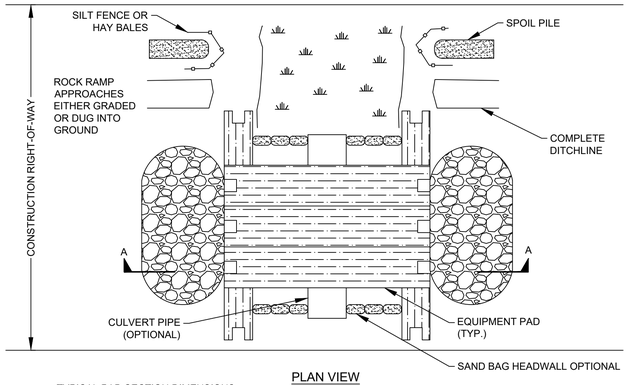
04/15 DATE
AS NOTED SCALE

TRC

C-203

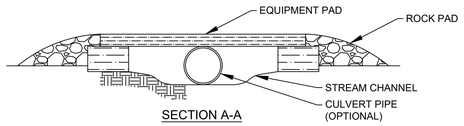
REV. D

327851-EAST POINT-OPT 2_C-203.dwg 2019.08.22



PLAN VIEW

TYPICAL PAD SECTION DIMENSIONS
3' WIDE, 1' THICK, 20' LONG

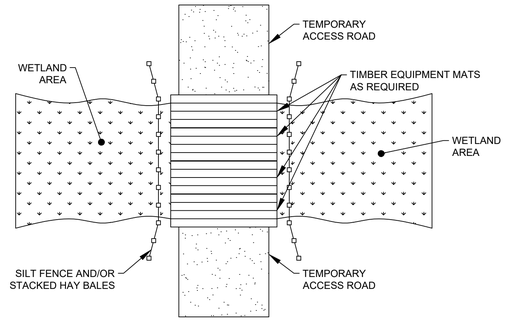


SECTION A-A

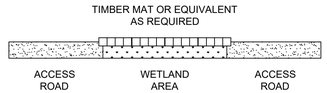
NOTES:
1. CULVERT PIPE UTILIZED IF ADDITIONAL SUPPORT IS REQUIRED.
2. ADDITIONAL PADS CAN BE PUT SIDE BY SIDE IF EXTRA WIDTH IS REQUIRED.
3. EQUIPMENT PAD TYPICALLY CONSTRUCTED OF HARDWOOD; MUST ACCOMMODATE THE LARGEST EQUIPMENT USED.
4. ROCK PADS OR CRUSHED STONE SHALL BE USED AT ENTRANCE TO THE EQUIPMENT PADS (IF NECESSARY).

TEMPORARY EQUIPMENT BRIDGE

SCALE: N.T.S.



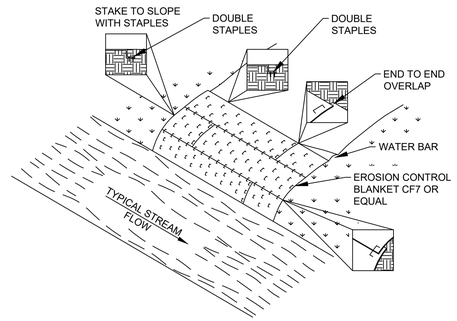
PLAN VIEW



SECTION VIEW

TEMPORARY WETLAND CROSSING

SCALE: N.T.S.



NOTES:
1. EROSION CONTROL MATTING SHALL BE PLACED ON THE BANKS OF FLOWING STREAMS WHERE VEGETATION HAS BEEN REMOVED OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
2. THE EROSION CONTROL MATTING SHALL MEET THE REQUIREMENTS SPECIFIED IN THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" - 2016 AND/OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
3. STAPLES SHALL BE MADE OF 11 GAUGE WIRE, U-SHAPED WITH 6" LEGS AND A 1" CROWN. STAPLES SHALL BE DRIVEN INTO THE GROUND FOR THE FULL LENGTH OF THE STAPLE LEGS. ALTERNATELY 1" WOODEN PEGS 6" LONG AND BEVELED TO SECURE MATTING.
4. MATTING SHALL BE INSTALLED ACCORDING TO MANUFACTURER SPECIFICATIONS OR AS FOLLOWS:
   - 4.1. THE TOP OF THE BLANKET SHALL EXTEND 2' PAST THE UPPER EDGE OF THE HIGH WATER MARK. IF A WATERBED IS PRESENT ON THE APPROACH SLOPE, THE BLANKET SHALL BEGIN ON THE UPHILL SIDE OF THE WATERBED.
   - 4.2. INSTALL BLANKET(S) ACROSS THE SLOPE IN THE DIRECTION OF WATER FLOW.
   - 4.3. ANCHOR ("KEY") THE UPSTREAM EDGE OF THE BLANKET(S) INTO THE SLOPE USING A 6" WIDE BY 6" DEEP TRENCH. DOUBLE STAPLE EVERY 12" BEFORE BACK FILLING AND COMPACTING TRENCH.
   - 4.4. ANCHOR ("KEY") THE UPPER EDGE OF THE BLANKET INTO THE SLOPE USING A 6" WIDE BY 6" DEEP TRENCH. DOUBLE STAPLE EVERY 12" BEFORE BACK FILLING AND COMPACTING TRENCH.
   - 4.5. THE EDGES OF PARALLEL BLANKETS SHALL BE OVERLAPPED A MINIMUM OF 6". THE UPPER BLANKET SHALL BE PLACED OVER THE LOWER BLANKET (SHINGLE STYLE) AND STAPLED EVERY 12" ALONG THE LENGTH OF THE EDGE.
   - 4.6. WHEN BLANKET ENDS ARE TO ADJOINING BLANKETS, THE UPSTREAM BLANKET SHALL BE PLACED OVER THE DOWNSTREAM BLANKET (SHINGLE STYLE) WITH APPROXIMATELY 6" OF OVERLAP, STAPLE THROUGH THE OVERLAP AREA EVERY 12".
   - 4.7. STAPLE DOWN THE CENTER OF THE BLANKET(S), THREE STAPLES IN EVERY SQUARE YARD.
5. IN LIVESTOCK AREAS WHERE EROSION CONTROL MATTING IS APPLIED TO STREAM BANKS, FENCING SHALL BE USED IF NECESSARY TO EXCLUDE LIVESTOCK, WITH PERMISSION OF THE LANDOWNER.
6. MONITOR FOR WASHOUTS, STAPLE INTEGRITY OR MAT MOVEMENT. REPLACE OR REPAIR AS NECESSARY.

TYPICAL STREAM BANK MATTING

SCALE: N.T.S.

PERMITTING
NOT FOR CONSTRUCTION

Call 811 before you dig

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

TRC
249 Western Avenue
Augusta, ME 04330

PROJECT NO: 327851

REV	DESCRIPTION	DATE	DES	CHK	APP
D	ISSUED FOR PERMITTING	08-30-19	CMW	PMM	
C	ISSUED FOR CLIENT REVIEW	08-22-19	CMW	RAY	
B	ISSUED FOR CLIENT REVIEW	08-02-19	CMW	TRC	PMM
A	ISSUED FOR CLIENT REVIEW	06-20-19	PGT	TRC	PMM

PGT DESIGNED
ESB DRAWN
TRC CHECKED
APPROVED
REVIEW 1
REVIEW 2

PRELIMINARY
EROSION & SEDIMENT CONTROL DETAILS 4
EAST POINT ENERGY CENTER
EAST POINT ENERGY CENTER, LLC
SHARON SCHOHARIE CO., NY

04/15 DATE
AS NOTED SCALE

TRC

C-204

REV. D