



Volume II – Project Drawings

**Ch. 60, Article XVI.,
Division 3 Code of
Ordinances City of
Auburn, Maine**

May 2020

1115 Riverside Solar Project

Prepared For:

nexAMP

Prepared By:

TRC
6 Ashley Drive, 1st Floor
Scarborough, ME 04074



NEXAMP SOLAR, LLC 1115 RIVERSIDE DRIVE SOLAR PROJECT PROPOSED 5 MW SOLAR ARRAY - PERMIT APPLICATION PLAN -

1115 RIVERSIDE DRIVE
AUBURN, ME 04210

3/28/2020

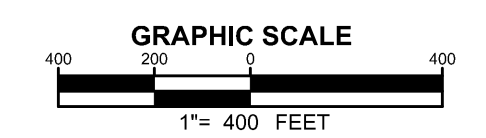
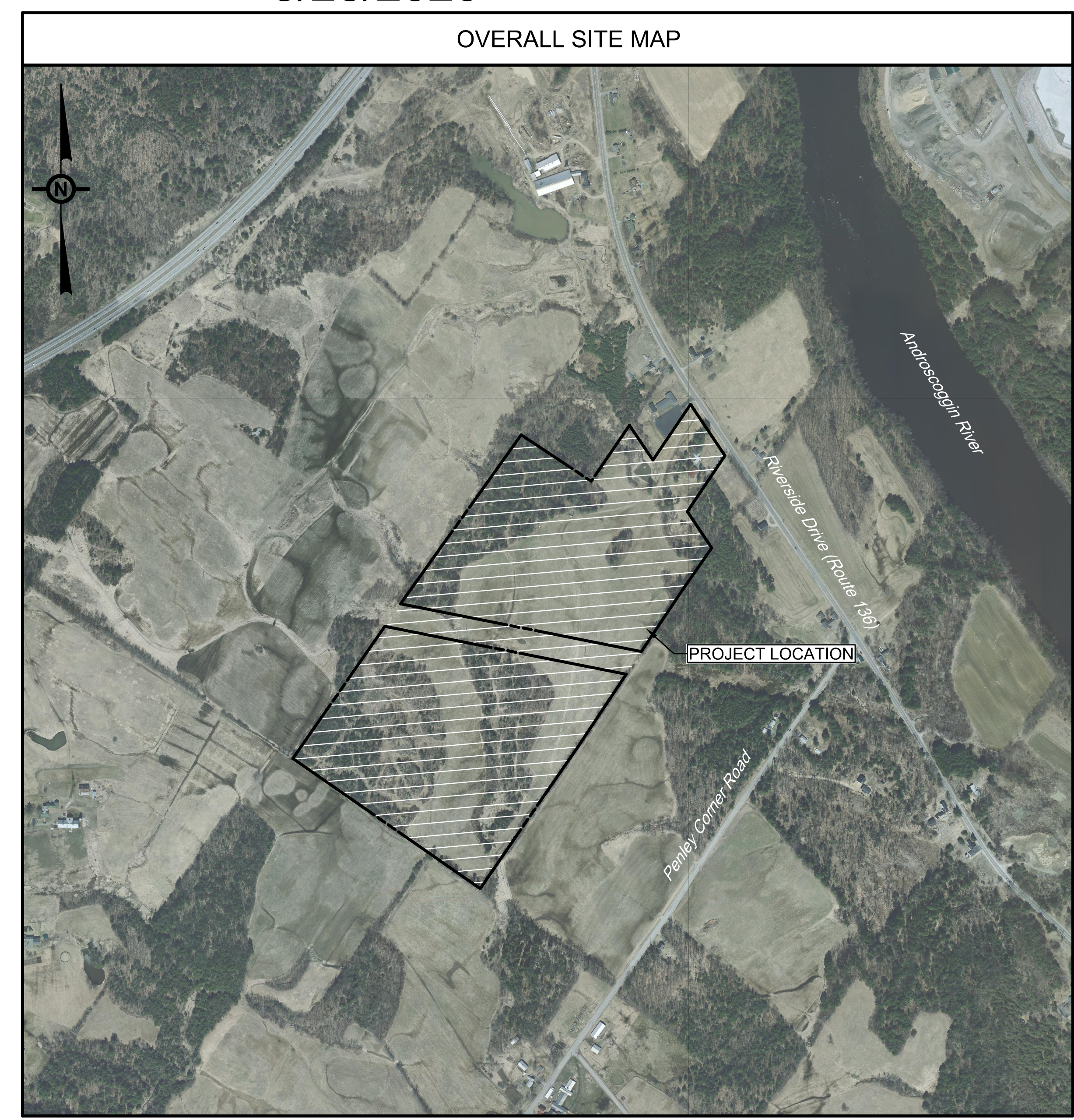
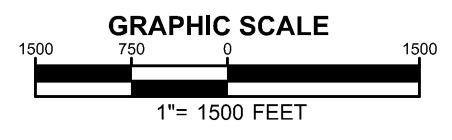
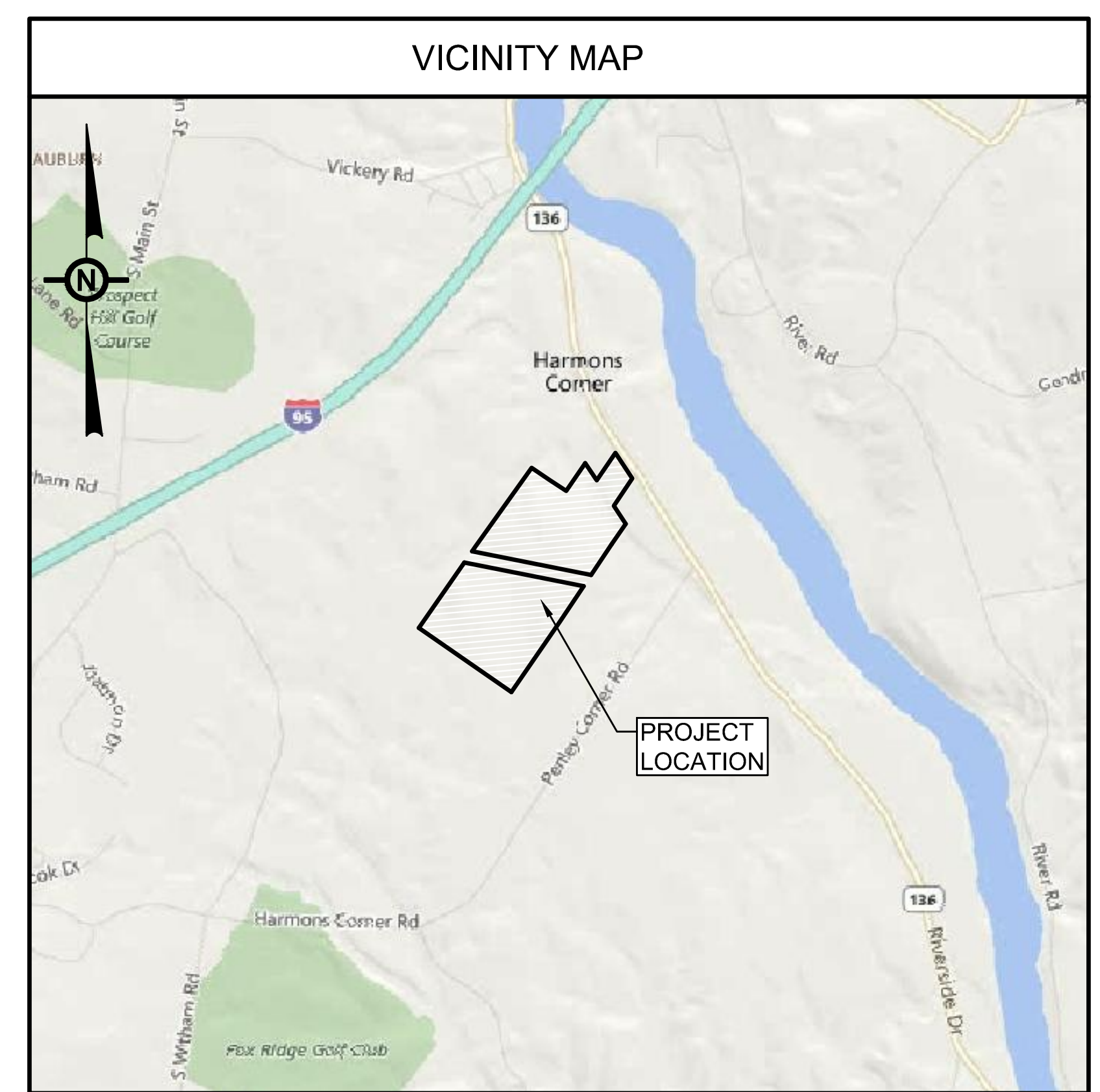


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C-501	EROSION CONTROL NOTES & DETAILS

PROJECT DEVELOPER / APPLICANT NEXAMP SOLAR, LLC 101 SUMMER STREET 2ND FLOOR BOSTON, MA 02110 ph: 617.431.1440	PARCEL OWNERSHIP ROGER G. GAUTHIER, JR 275 PENLEY CORNER ROAD AUBURN, MAINE TAX ID#: 162-001 & 137-028
CIVIL ENGINEER TRC COMPANIES 6 ASHLEY DRIVE 1st Floor SCARBOROUGH, ME 04074 ph: 207.879.1930 LICENSED ENGINEER: STEVEN M. LOSS STATE PE REG# 14351	SURVEYOR JONES ASSOCIATES, INC. 280 POLAND SPRING ROAD AUBURN, MAINE 04210 ph: 207.241.0235 DATE OF SURVEY: 12/24/2019

PROJECT DESCRIPTION	
SYSTEM SIZE	4.99 MW AC
SYSTEM	17,190 MODULES
MODULE TYPE	HYUNDAI 385W
LATITUDE/LONGITUDE	44.054995°/-70.203833°
PROJECT AREA	43.90 AC. ± LIMITS OF DISTURBANCE

STATEMENT OF OWNERSHIP, ACKNOWLEDGMENT OF PLAN

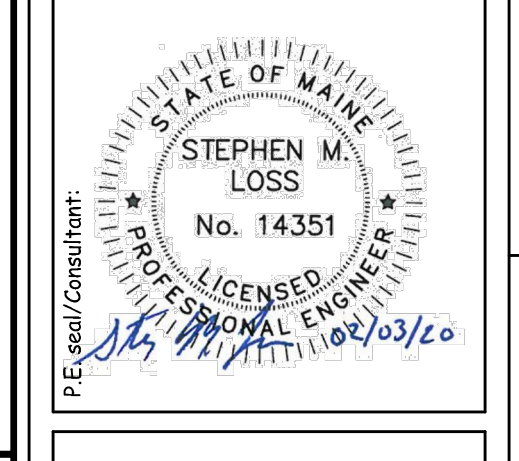
STATE OF MAINE
COUNTY OF ANDROSCOGGIN

ON THIS _____ DAY OF _____, 2020, BEFORE ME, THE UNDERSIGNED PERSONALLY APPEARED _____ WHO BEING DULY SWORN ACCORDING TO LAW, DEPOSES AND SAYS THAT HE IS THE OWNER OF THE PROPERTY SHOWN ON THIS PLAN, AND THAT HE ACKNOWLEDGES THE SAME TO BE HIS PLAN AND DESIRES THE SAME TO BE RECORDED AS SUCH ACCORDING TO LAW. WITNESS MY HAND AND SEAL THE DAY AND DATE ABOVE WRITTEN.

OWNER _____
NOTARY _____
MY COMMISSION EXPIRES _____, 20_____.



Rev	Issued For	Date
1	Per DEP Comments Dated: 2/28/2020	3/19/2020



**1115 RIVERSIDE DRIVE
SOLAR PROJECT**

1115 RIVERSIDE DRIVE
AUBURN, ME 04210

COVER SHEET

Drawing Title:
Drawn by: TKM/THR Scale: As Shown Approved by: CAW

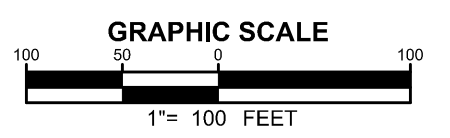
Dwg No:	Size: D	Sheet Rev:
C-000		A

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Tel: (617) 431-1440 Fax: (978) 416-2525 Web: nexamp.com

TRC Companies, Inc.
6 Ashley Drive
1st Floor
Scarborough, Me 04074
Tel: 207-879-1930
www.trccompanies.com

TRC Project Number: 367501.276P.0000

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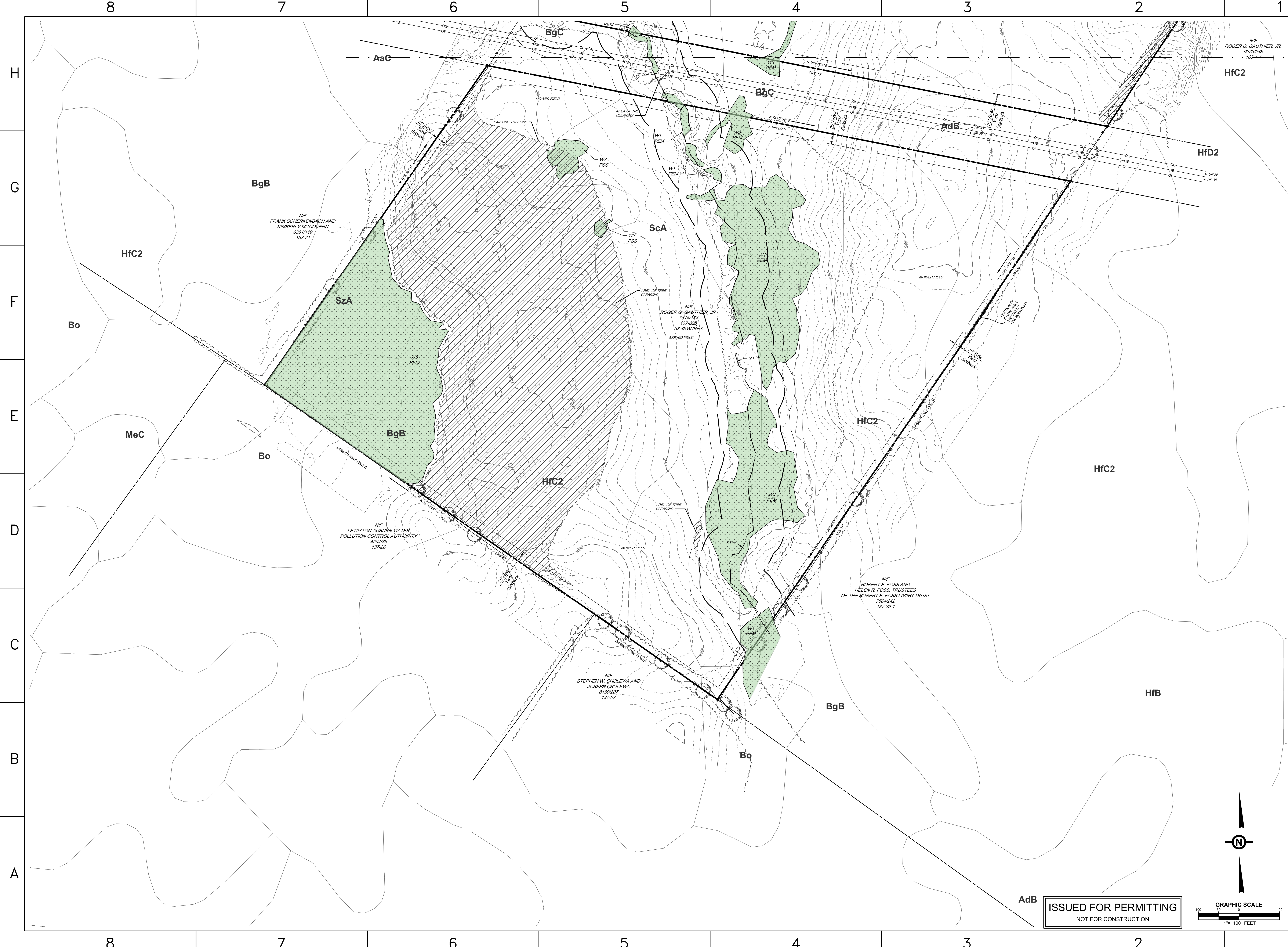
1115 RIVERSIDE DRIVE
SOLAR PROJECT
1115 RIVERSIDE DRIVE
AUBURN, ME 04210

EXISTING CONDITIONS &
DEMOLITION PLAN

Drawn By: TKM/THR Scale: As Shown Approved By: CAW

Dwg No: C-100 Size: D Sheet Rev: A

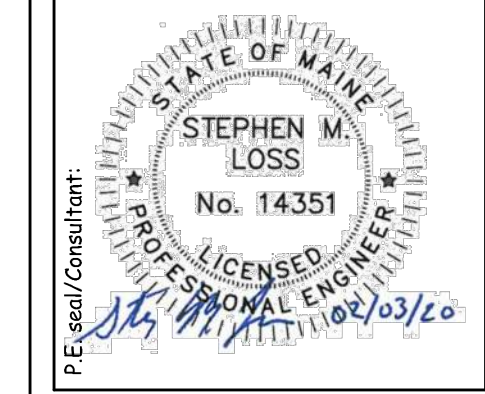
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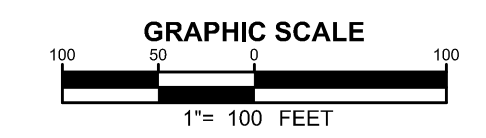


**1115 RIVERSIDE DRIVE
 SOLAR PROJECT**
 1115 RIVERSIDE DRIVE
 AUBURN, ME 04210

**EXISTING CONDITIONS &
 DEMOLITION PLAN**
 Drawing Title:
 Drawn By: TKM/THR Scale: As Shown Approved by: CAW

Dwg No: C-101 Size: D Sheet Rev: A

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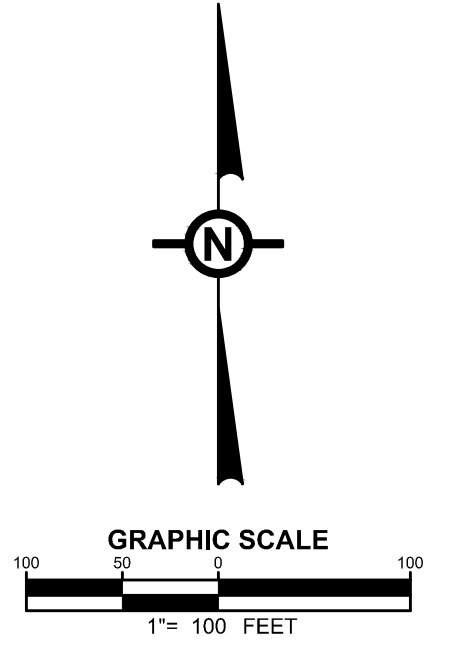
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AUBURN, ME 04210

LAYOUT SITE PLAN
Drawing Title:
Project:
Drawn by: TKM/THR Scale: As Shown Approved by: CAW

Dwg No: **C-200** Size: D Sheet Rev: **A**

8 7 6 5 4 3 2 1

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KIMBERLY MCGOVERN
6361/119
137-21

NF
LEWISTON-AUBURN WATER
POLLUTION CONTROL AUTHORITY
4204/09
137-26

NF
STEPHEN W. CHOLEWA AND
JOSEPH CHOLEWA
6158/207
137-27

NF
ROBERT E. FOSS AND
HELEN R. FOSS, TRUSTEES
OF THE ROBERT E. FOSS LIVING TRUST
7564/242
137-29-1

NF
ROGER G. GAUTHIER, JR.
9223/286
163-4-4

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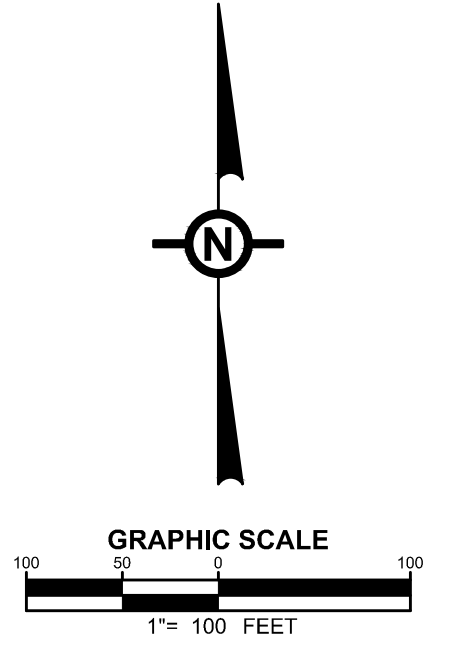


Project:
**1115 RIVERSIDE DRIVE
SOLAR PROJECT**
1115 RIVERSIDE DRIVE
AUBURN, ME 04210

Drawing Title:
LAYOUT SITE PLAN
Drawn by: TKM/THR Scale: As Shown Approved by: CAW

Dwg No: **C-201** Size: D Sheet Rev: **A**

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8 7 6 5 4 3 2 1

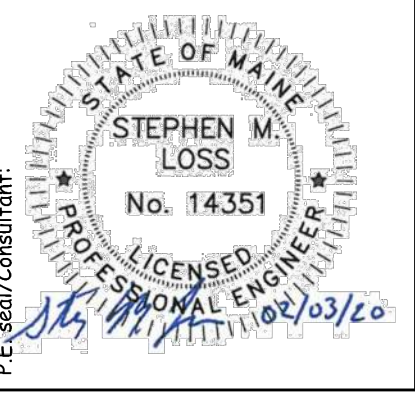
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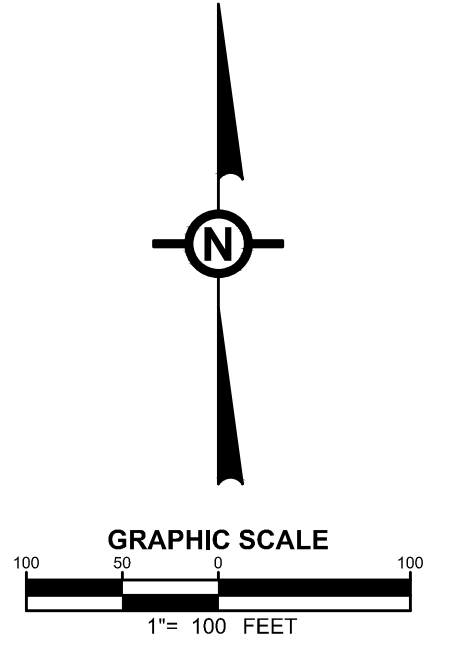
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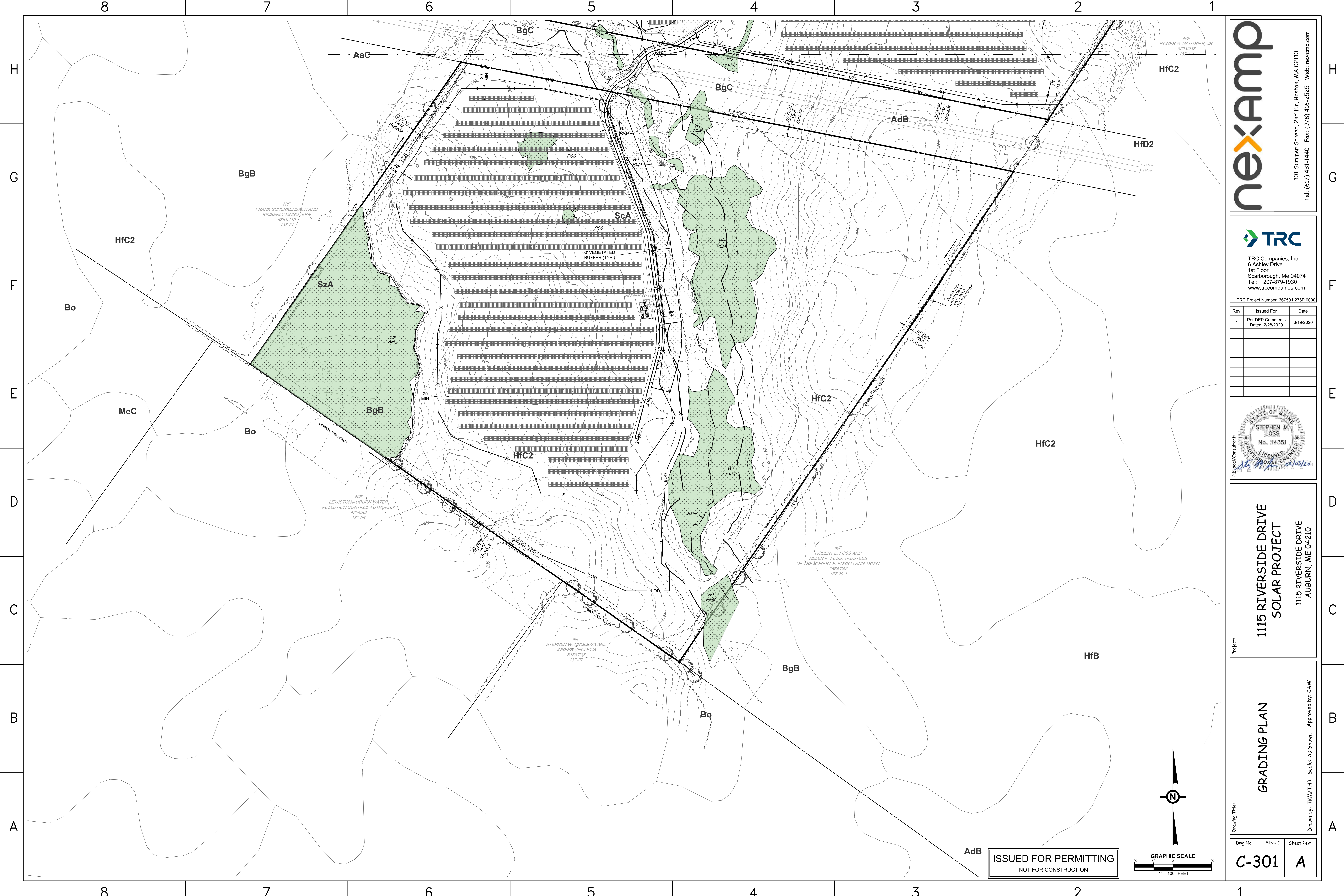
**1115 RIVERSIDE DRIVE
SOLAR PROJECT**
1115 RIVERSIDE DRIVE
AUBURN, ME 04210

GRADING PLAN
Drawing Title:
Dwg No: C-300 Size: D Sheet Rev: A
Drawn By: TKM/THR Scale: As Shown Approved by: CAW

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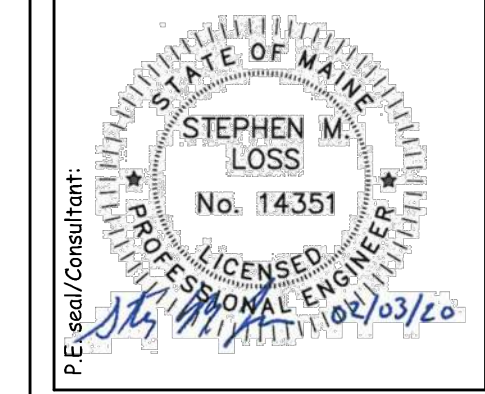
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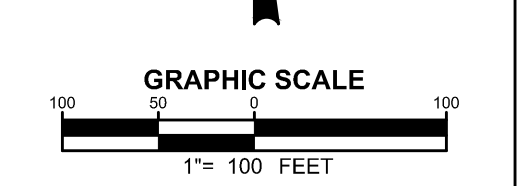
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 SOLAR PROJECT**

1115 RIVERSIDE DRIVE
 AUBURN, ME 04210

GRADING PLAN

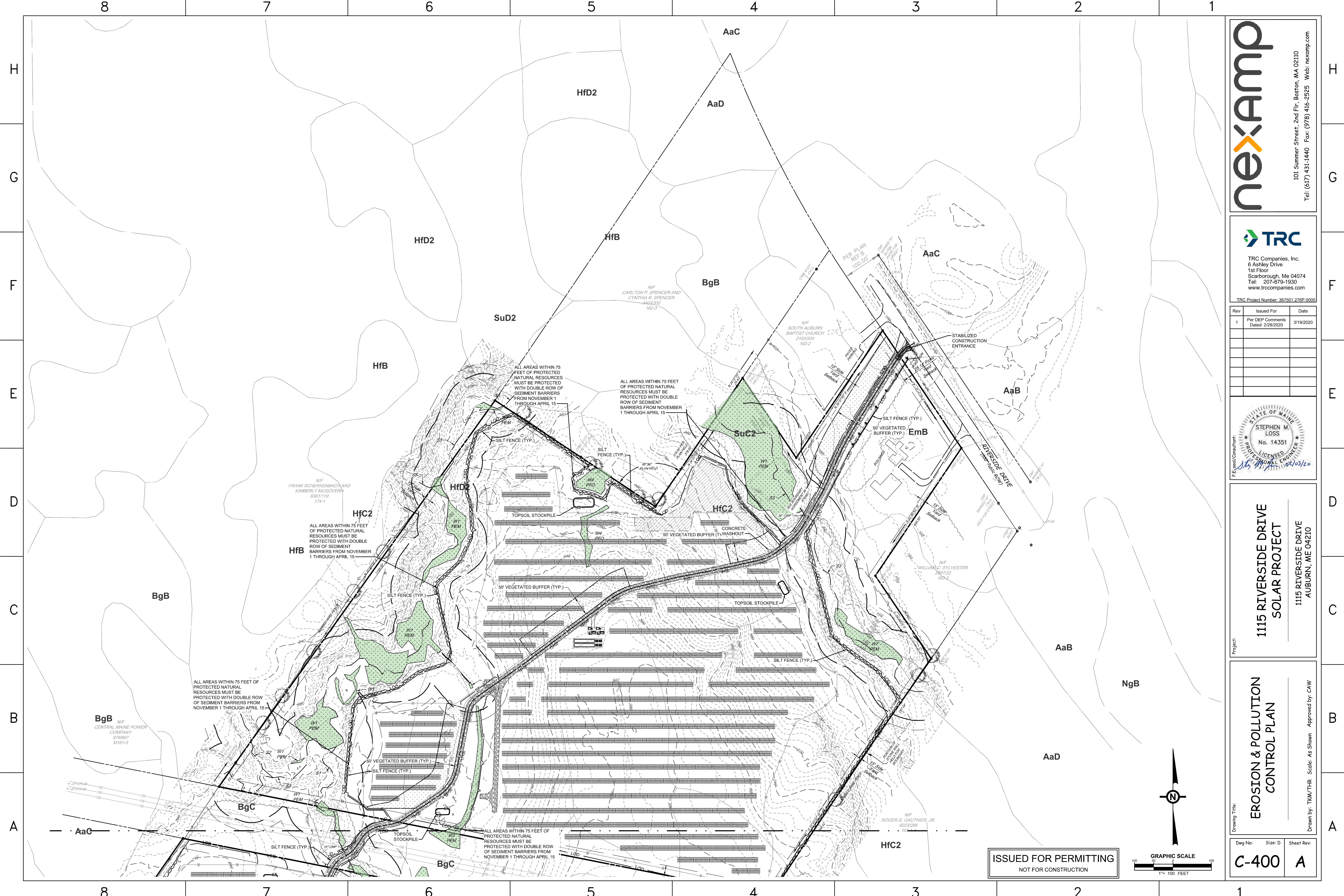
Drawn by: TKM/THR Scale: As Shown Approved by: CAW

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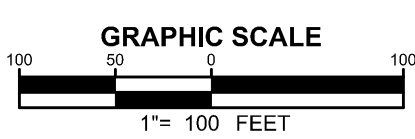


Dwg No: **C-301** Size: D Sheet Rev: **A**

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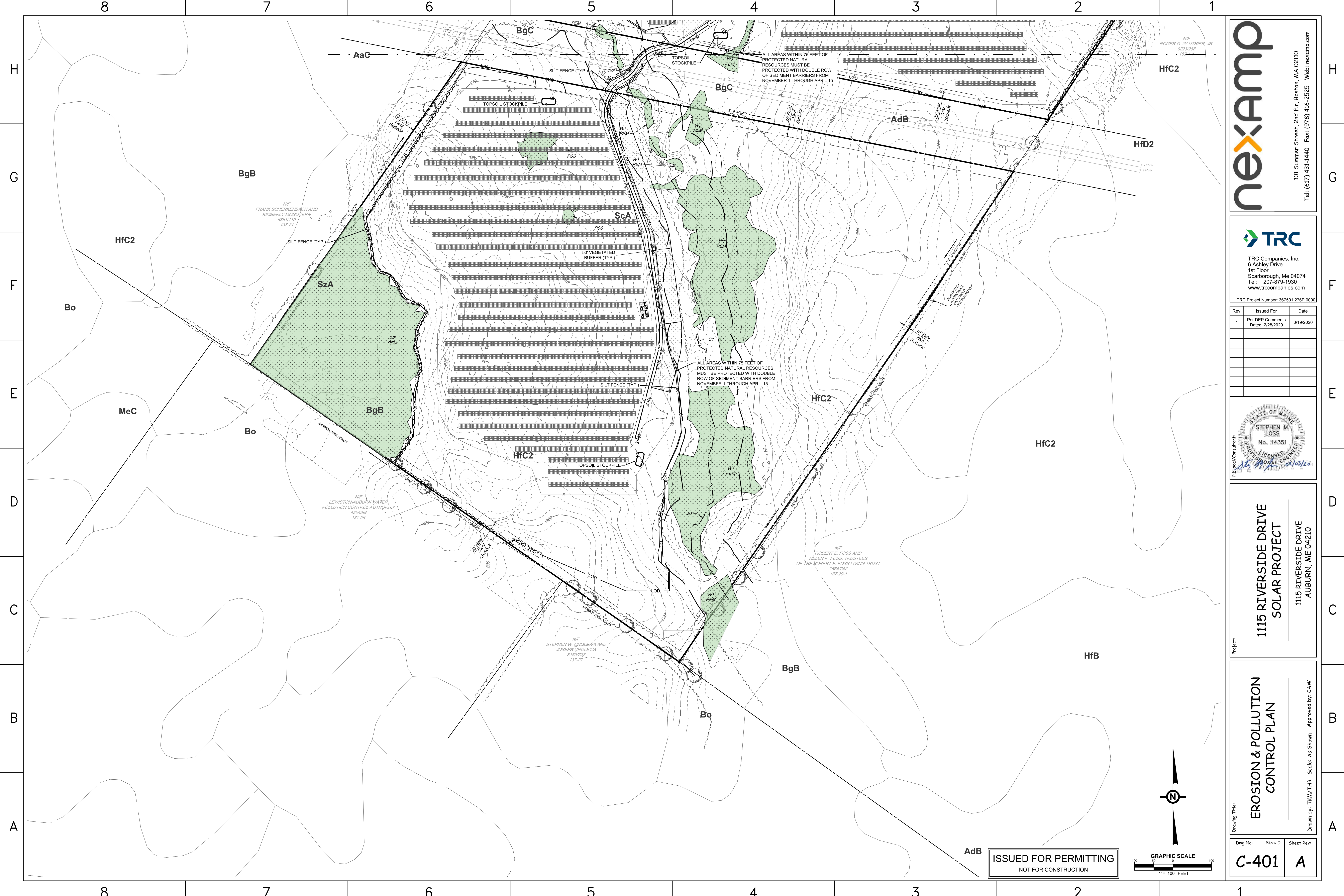


1115 RIVERSIDE DRIVE
SOLAR PROJECT
1115 RIVERSIDE DRIVE
AUBURN, ME 04210

EROSION & POLLUTION
CONTROL PLAN
Drawing Title: Erosion & Pollution Control Plan
Drawn By: TKM/THR Scale: As Shown Approved by: CAW

Dwg No: C-400 Size: D Sheet Rev: A

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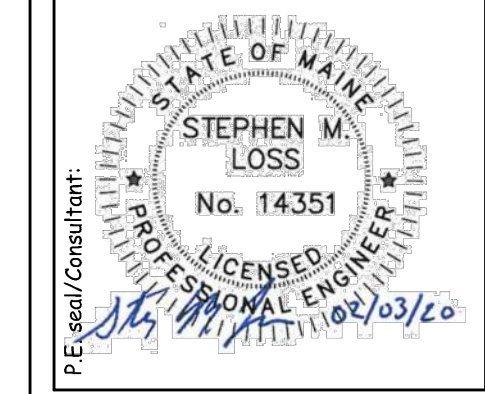
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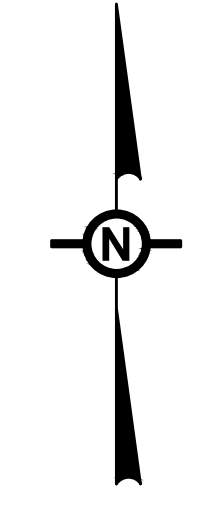
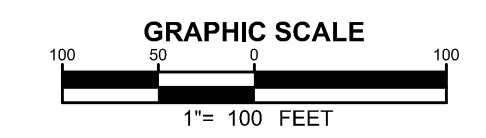


Project: **1115 RIVERSIDE DRIVE SOLAR PROJECT**
 1115 RIVERSIDE DRIVE
 AUBURN, ME 04210

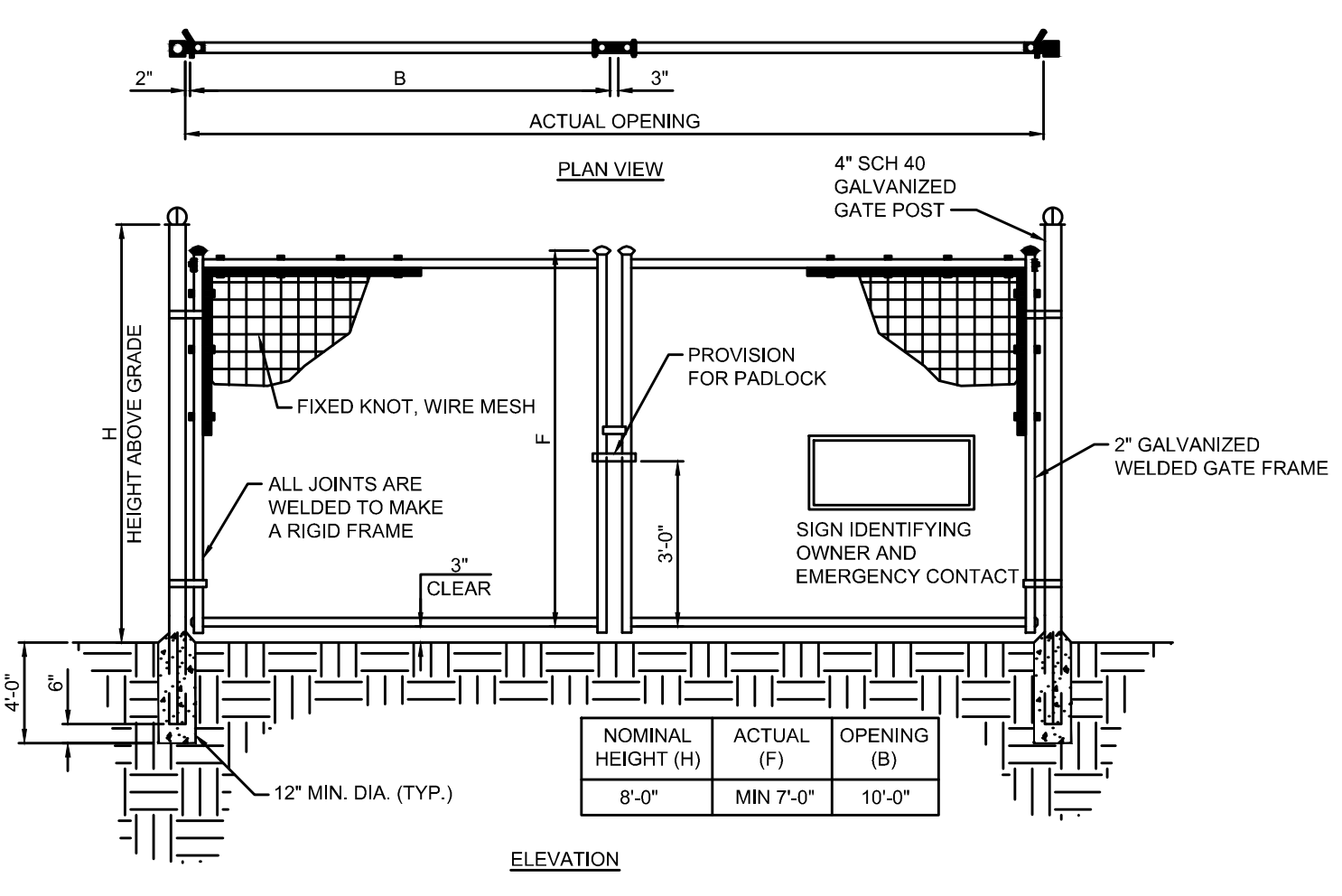
Drawing Title: **EROSION & POLLUTION CONTROL PLAN**
 Drawn By: TKM/THR Scale: As Shown Approved by: CAW

Dwg No: **C-401** Size: D Sheet Rev: **A**

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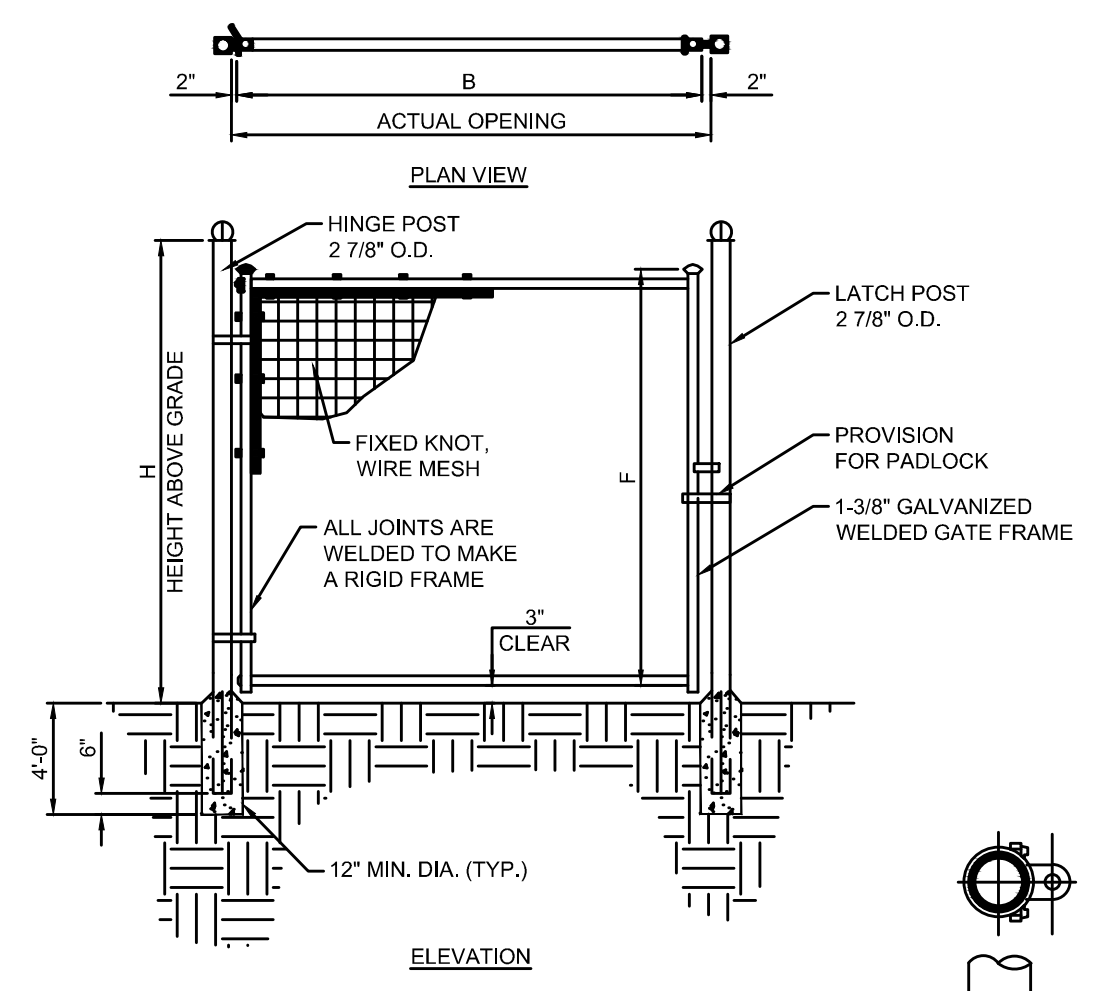


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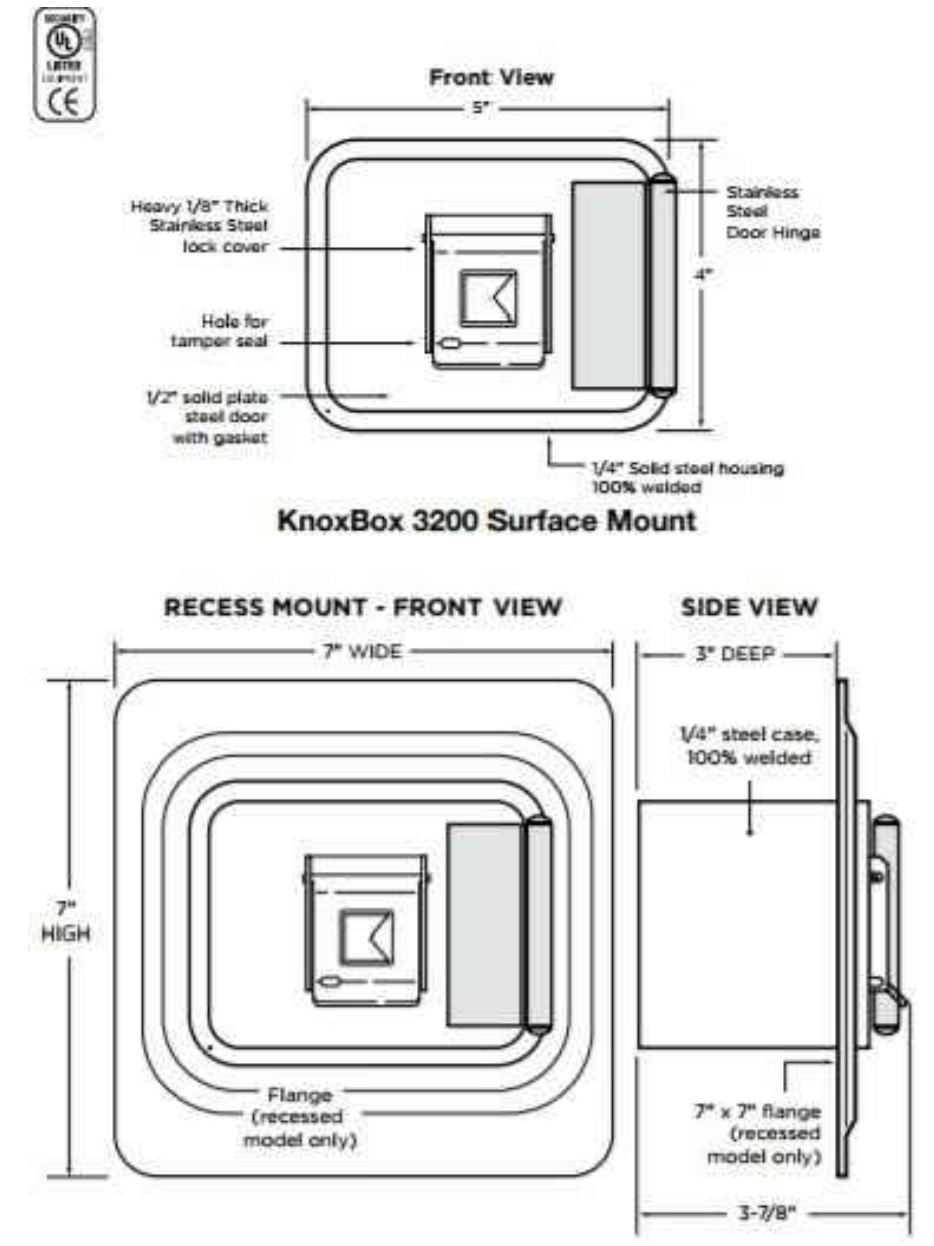
- NOTES
1. ALL FENCING AND HARDWARE SHALL BE GALVANIZED.
 2. CONCRETE ENCASEMENT AT END AND GATE POSTS ONLY.
 3. FIXED KNOT WIRE MESH TO BE BAKAERT SOLIDLOCK PRO (20/96/6), (17/86/6) OR EQUIVALENT

FIXED KNOT FARM FENCE - DOUBLE GATE
NOT TO SCALE

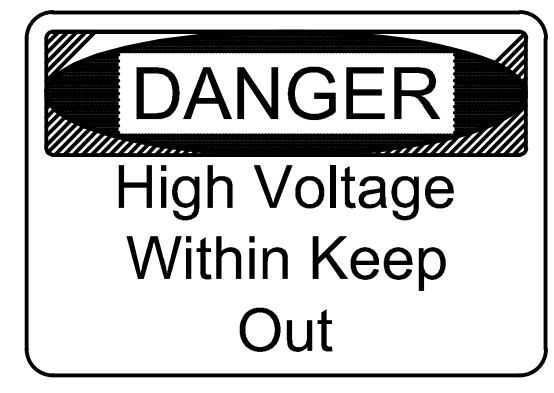
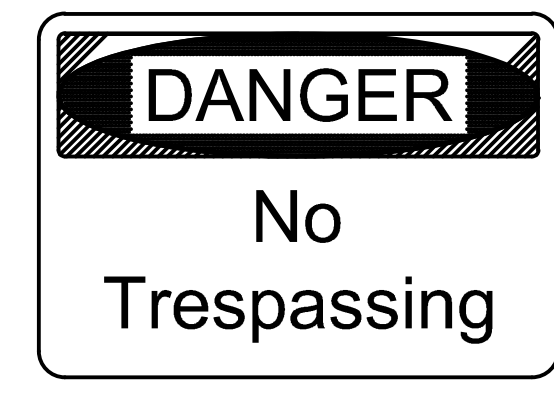


- NOTES
1. ALL FENCING AND HARDWARE SHALL BE GALVANIZED.
 2. CONCRETE ENCASEMENT AT END AND GATE POSTS ONLY.
 3. FIXED KNOT WIRE MESH TO BE BAKAERT SOLIDLOCK PRO (20/96/6), (17/86/6) OR EQUIVALENT

FIXED KNOT FARM FENCE - PERSONNEL GATE
NOT TO SCALE



KNOX BOX
NOT TO SCALE



NOTES

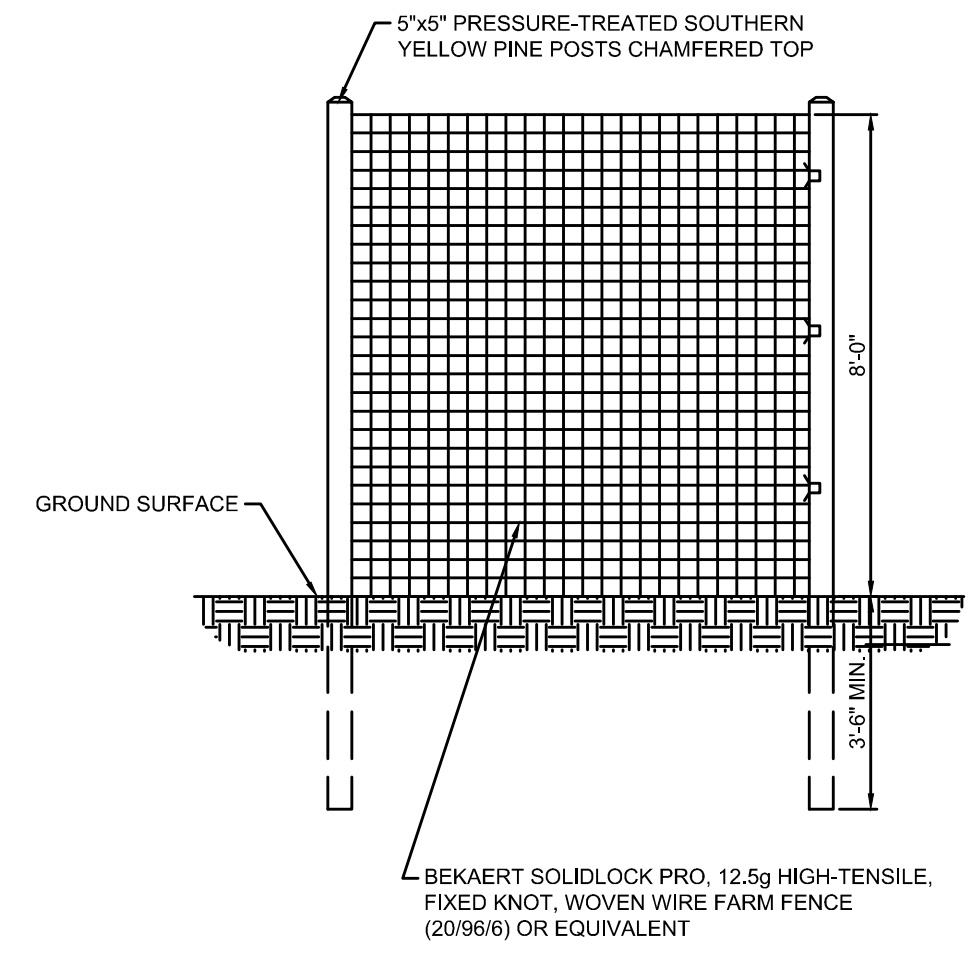
1. SIGNS SHALL CONFORM TO THE 2013 OSHA AND ANSI REQUIREMENTS.
2. SIGNS SHALL BE 20" WIDE BY 14" HIGH.
3. SIGNS SHALL HAVE A MOUNTING HEIGHT OF BETWEEN 45 TO 66 INCHES.
4. SIGN PANELS SHALL BE 10 GAUGE ALUMINUM WITH HIGH VISIBILITY REFLECTIVE SHEETING.

FENCE WARNING SIGNS
NOT TO SCALE

1115 RIVERSIDE ROAD
AUBURN, MAINE

SITE OWNER: NEXAMP SOLAR, LLC
SITE OWNER NUMBER: 617.431.1440

O & M COMPANY: NEXAMP SOLAR, LLC
O & M COMPANY NUMBER: 617.431.1440



#	WIRE NOMENCLATURE	LENGTH	WEIGHT
23	2312018	330'	492
20	20969	180'	309
20	205884	330'	395
20	205884	330'	395
17	17265	330'	402
10	10809	330'	210
23	2312012	330'	343
20	209612	330'	262
20	209612	660'	524
17	178612	330'	248
17	178612	660'	495
17	177512	330'	235
10	108012	660'	294

ORDER NOMENCLATURE

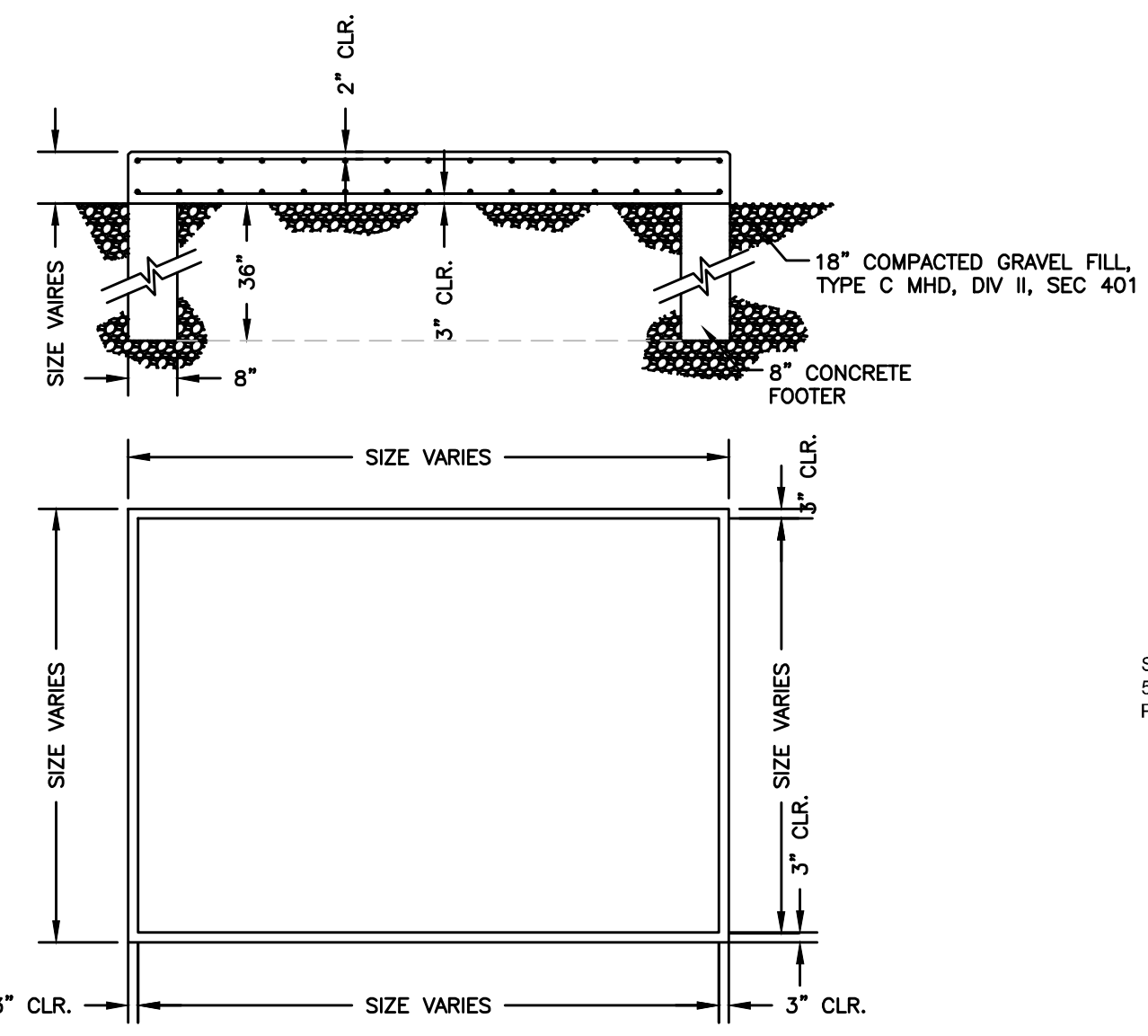
The first two numbers indicate the number or horizontal wires, while the second two numbers indicate the height of the fence. The last number is the distance between vertical stays.

Example: 20/96/12 is a roll with 20 horizontal wires, is 96' high, with vertical stays 12' apart.

- Note new higher strength vertical stay wire spec.
- Other configurations available on special order basis

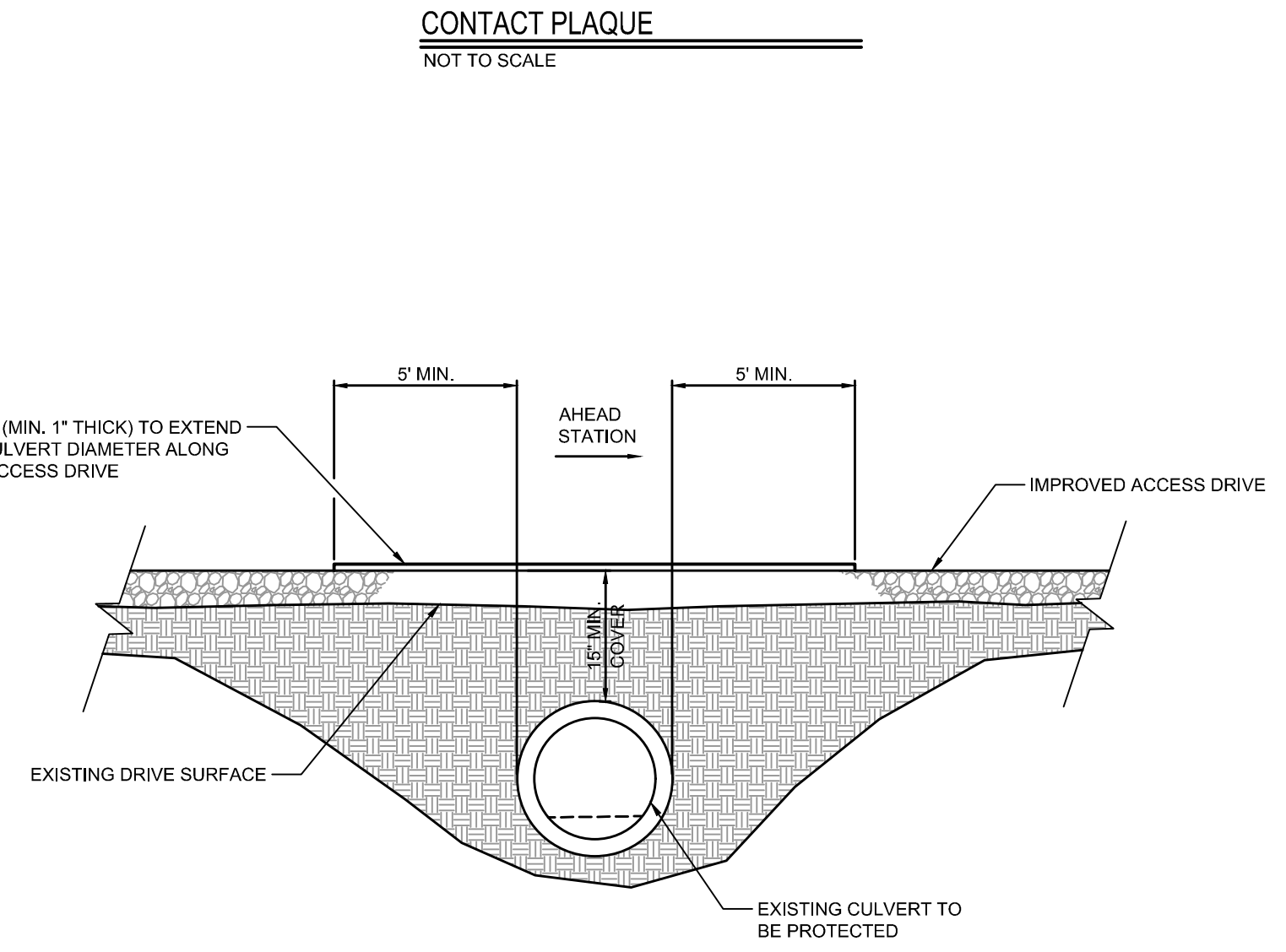
WIRE	GUAGE	TENSILE STRENGTH	BREAKING LOAD	GALVANIZATION
Line Wires	12 1/2 ga.	Hi-Tensile 190K-212K	1347 lbs-1887 lbs	.85 oz-1.4 oz. per sq. ft.
Stay Wires	12 1/2 ga.	Med-Tensile 140K-170K	1048 lbs-1273 lbs	.85 oz-1.4 oz. per sq. ft.
Roll Wires	13 ga.	Low Tensile 57K-76K	311 lbs-458 lbs	.85 oz-1.4 oz. per sq. ft.

FIXED KNOT FARM FENCE
NOT TO SCALE

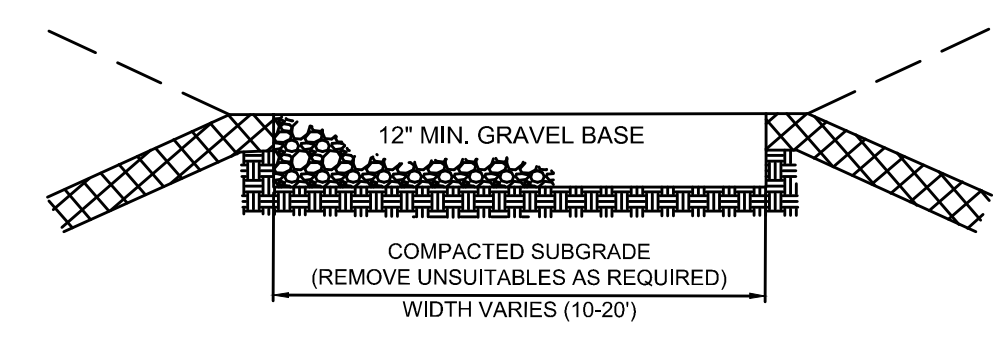


- NOTES:
1. CONCRETE TO BE 4000 PSI @ 28 DAYS.
 2. MAX. SLUMP: 4 INCHES (TO BE MEASURED PRIOR TO PUMPING AND ADDITION OF ADMIXTURES.)
 3. REINFORCING SHALL BE ASTM A615 GR. 60 (60 KSI YIELD).
 4. USE 3/8" CHAMFER ON ALL EXPOSED EDGES, UNLESS NOTED OTHERWISE.
 5. FOUNDATIONS TO BE BACKFILLED & COMPACTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 6. ESTIMATED CONCRETE QUALITY IS FOR OWNER'S ASSET MANAGEMENT PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING QUANTITIES FOR CONSTRUCTION & BID PURPOSES.
 7. EQUIPMENT ANCHORAGE TO BE HILTI ADHESIVE ANCHOR, DESIGNED UPON RECEIPT OF CERTIFIED EQUIPMENT DRAWINGS.

TYPICAL INVERTER PAD DETAIL
NOT TO SCALE

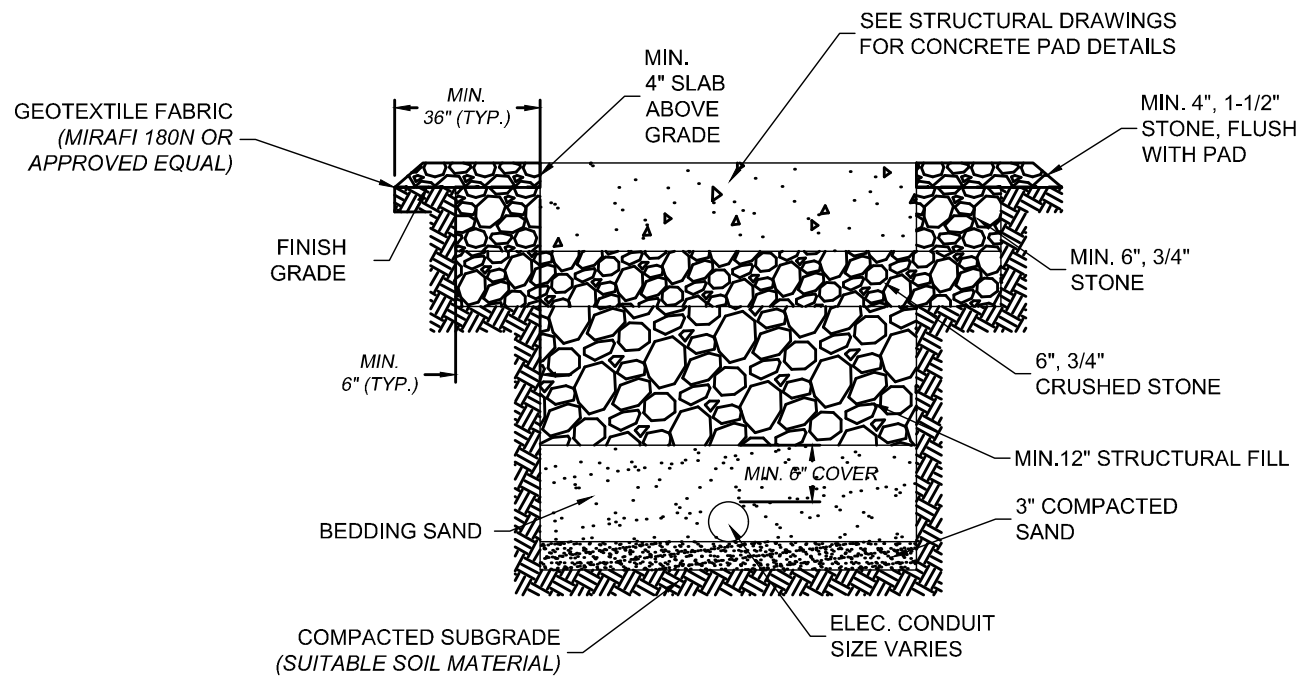


EXISTING CULVERT CROSSING
NOT TO SCALE

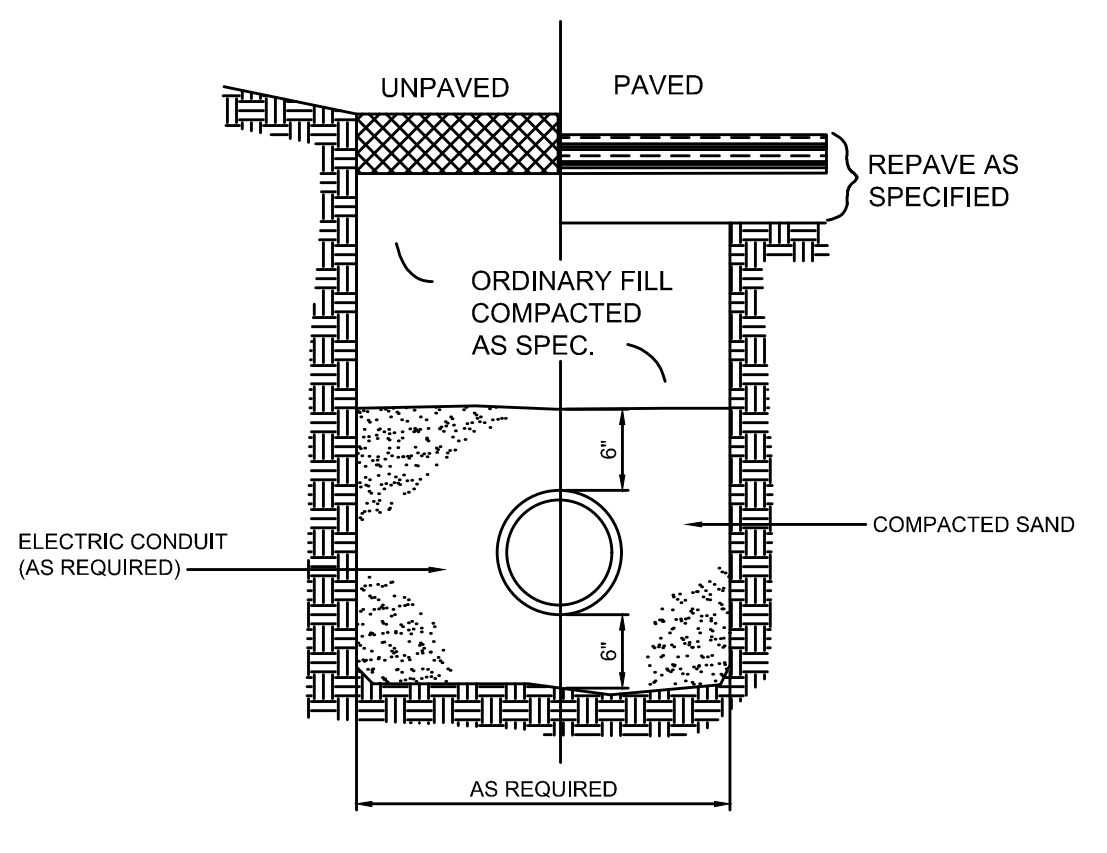


- NOTES:
1. REMOVE TOPSOIL AND ALL UNSUITABLE MATERIAL AS REQUIRED AND REPLACE WITH GRAVEL.
 2. ACCESS DRIVES TO SLOPE IN THE DIRECTION OF THE EXISTING GRADE AT A MINIMUM OF 2.0% DRIVEWAY SHALL BE GRADED TO ALLOW STORMWATER TO SHEET ACROSS IT AND TO PREVENT PUDDLING.

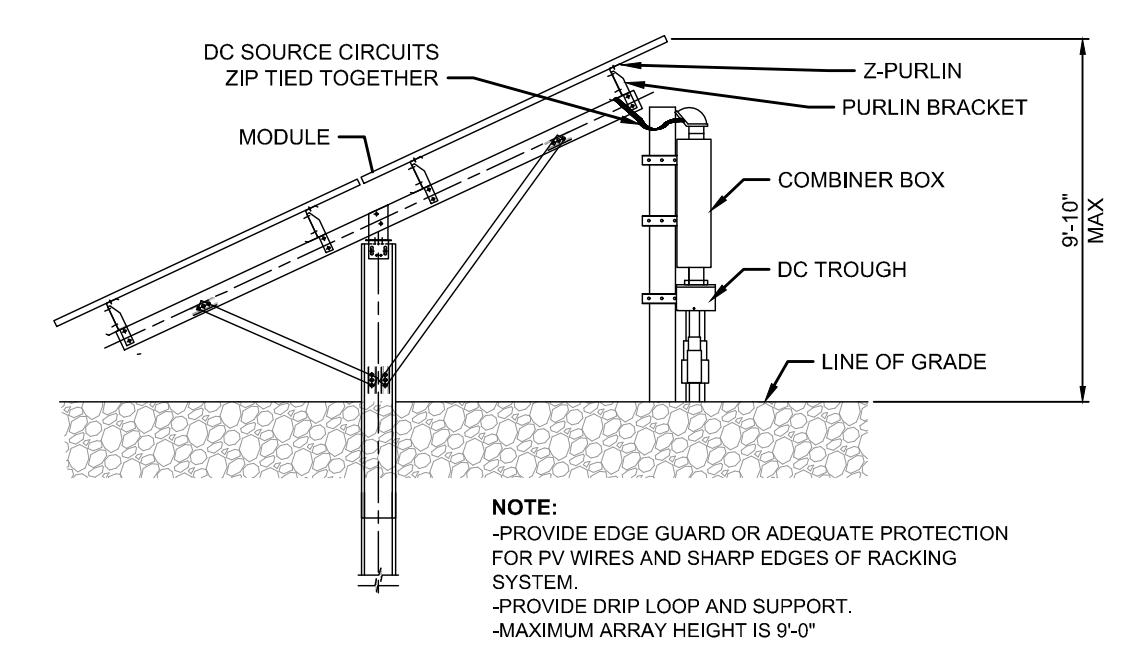
ACCESS DRIVE CROSS SECTION
NOT TO SCALE



SUBSOIL EQUIPMENT FOUNDATION DETAIL
NOT TO SCALE



ELECTRIC CONDUIT TRENCH
NOT TO SCALE



SOLAR RACKING
NOT TO SCALE

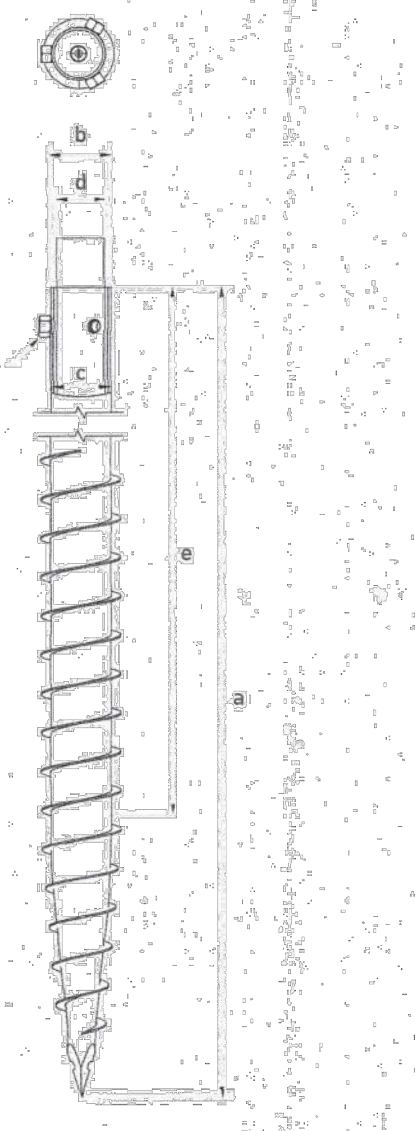
- NOTE:
- PROVIDE EDGE GUARD OR ADEQUATE PROTECTION FOR PV WIRES AND SHARP EDGES OF RACKING SYSTEM.
 - PROVIDE DRIP LOOP AND SUPPORT.
 - MAXIMUM ARRAY HEIGHT IS 9'-0"

ISSUED FOR PERMITTING
NOT FOR CONSTRUCTION

GROUND SCREW SPECIFICATION SHEET
KSF G 76x2400-3xM16

SIDE VIEW (1 of 1)

a.	Length	194.00"
b.	Outside Diameter	3.00"
c.	Inside Diameter	2.25"
d.	Internal Adjustment	0.23"
e.	Depth	25.00"
f.	Adjustment Note	± 0.1 Mils



PHONE: 239.362.0211 | FAX: 239.362.0586 | WWW.TERRASMART.COM

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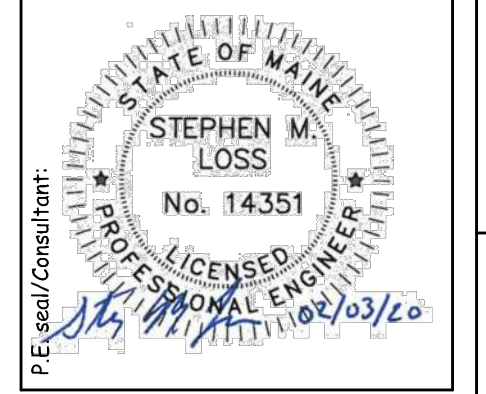
101 Summer Street, 2nd Flr, Boston, MA 02110
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TRC

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TRC Project Number: 367501.276P.0000

Rev	Issued For	Date
1	Per DEP Comments Dated: 2/28/2020	3/19/2020



**1115 RIVERSIDE DRIVE
SOLAR PROJECT**

1115 RIVERSIDE DRIVE
AUBURN, ME 04210

CONSTRUCTION DETAILS

Project: 1115 RIVERSIDE DRIVE SOLAR PROJECT
Drawing Title: CONSTRUCTION DETAILS
Dwg No: C-500
Size: D
Sheet Rev: A

Drawn by: TKM/THR Scale: As Shown Approved by: CAW

C-500 A

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EROSION CONTROL NOTES:

PROJECT DESCRIPTION
THE PROJECT INVOLVES THE DEMOLITION OF EXISTING SITE FEATURES AND THE REMOVAL OF SITE VEGETATION FOR THE CONSTRUCTION OF A GROUND MOUNTED PHOTOVOLTAIC ARRAY AND RELATED ACCESS ROAD IMPROVEMENTS, UTILITIES, SITE PREPARATION, AND EROSION AND SEDIMENTATION CONTROL MEASURES.

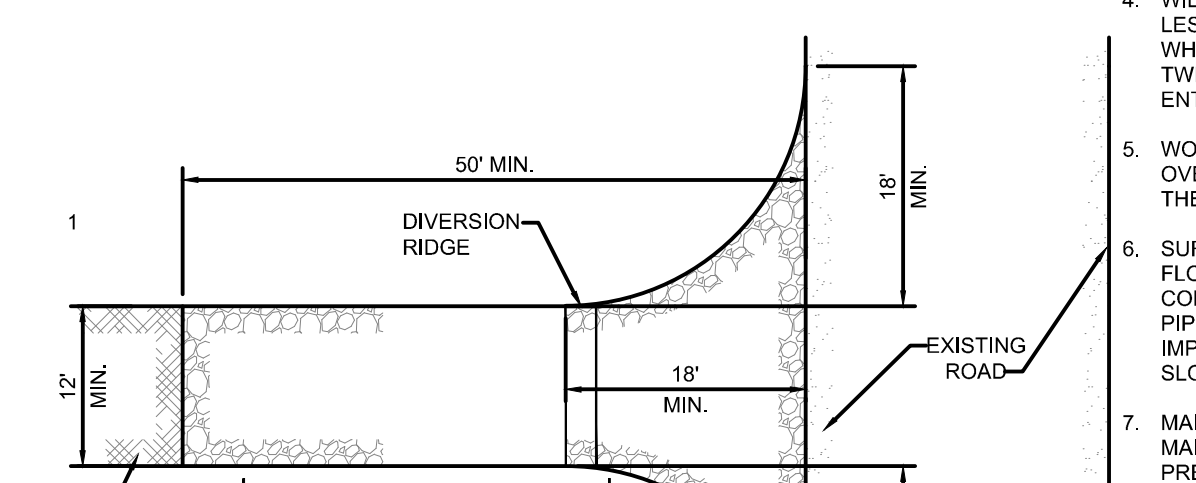
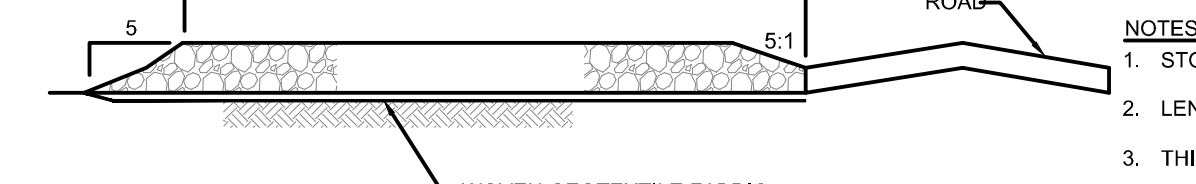
- 1. ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES (BMPs)
2. SILT FENCE WILL BE INSPECTED, REPLACED AND/OR REPAIRED IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR LOSS OF SERVICEABILITY DUE TO SEDIMENT ACCUMULATION
3. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO CONSTRUCTION SITE
4. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS USUALLY ARE STABILIZED BY A SUITABLE GROWTH OF GRASS

CONSTRUCTION SEQUENCE

- 1. ESTABLISH CONSTRUCTION WORKSPACE LIMITS, IDENTIFY AND MARK SENSITIVE RECEPTORS INCLUDING NATURAL RESOURCES AND DOWN GRADIENT DRAINAGE INFRASTRUCTURE
2. INSTALLATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES AND ASSOCIATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION BEST MANAGEMENT PRACTICES (2003) AND MDEP WINTER CONSTRUCTION GUIDELINES (1999)
3. PRIOR TO USAGE, CONSTRUCT AND STABILIZE THE CONSTRUCTION ENTRANCE IN THE LOCATIONS INDICATED ON THE EROSION CONTROL PLAN SHEET, MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE UNTIL ALL DISTURBED AREAS ARE STABILIZED

- 17. KEEP A LOG (REPORT) SUMMARIZING THE INSPECTIONS AND ANY CORRECTIVE ACTION TAKEN, THE LOG MUST INCLUDE THE NAME(S) AND QUALIFICATIONS OF THE PERSON MAKING THE INSPECTIONS
18. MONITOR PUBLIC ROADS FOR SIGNS OF TRACKING OR SPILLING OF SPOIL, MATERIAL AND CLEAN-UP AS NECESSARY
19. COMPLETE FINAL GRADING AND STABILIZATION OF EARTHEN STRUCTURES SUCH AS DIVERSION BERMS, LEVEL SPREADERS, AND SWALES THAT WILL CONTROL POST-CONSTRUCTION RUNOFF
20. FINISH GRADE AND REPLACE TOPSOIL OR LOAM IN DISTURBED AREAS. SEED AND MULCH DISTURBED AREAS WITHIN 6 DAYS OF FINAL GRADING
21. MAINTAIN ALL TEMPORARY EROSION CONTROLS AND SEDIMENT BARRIERS UNTIL VEGETATION HAS BEEN ESTABLISHED OVER 90% OF THE AREA TO BE REVEGETATED

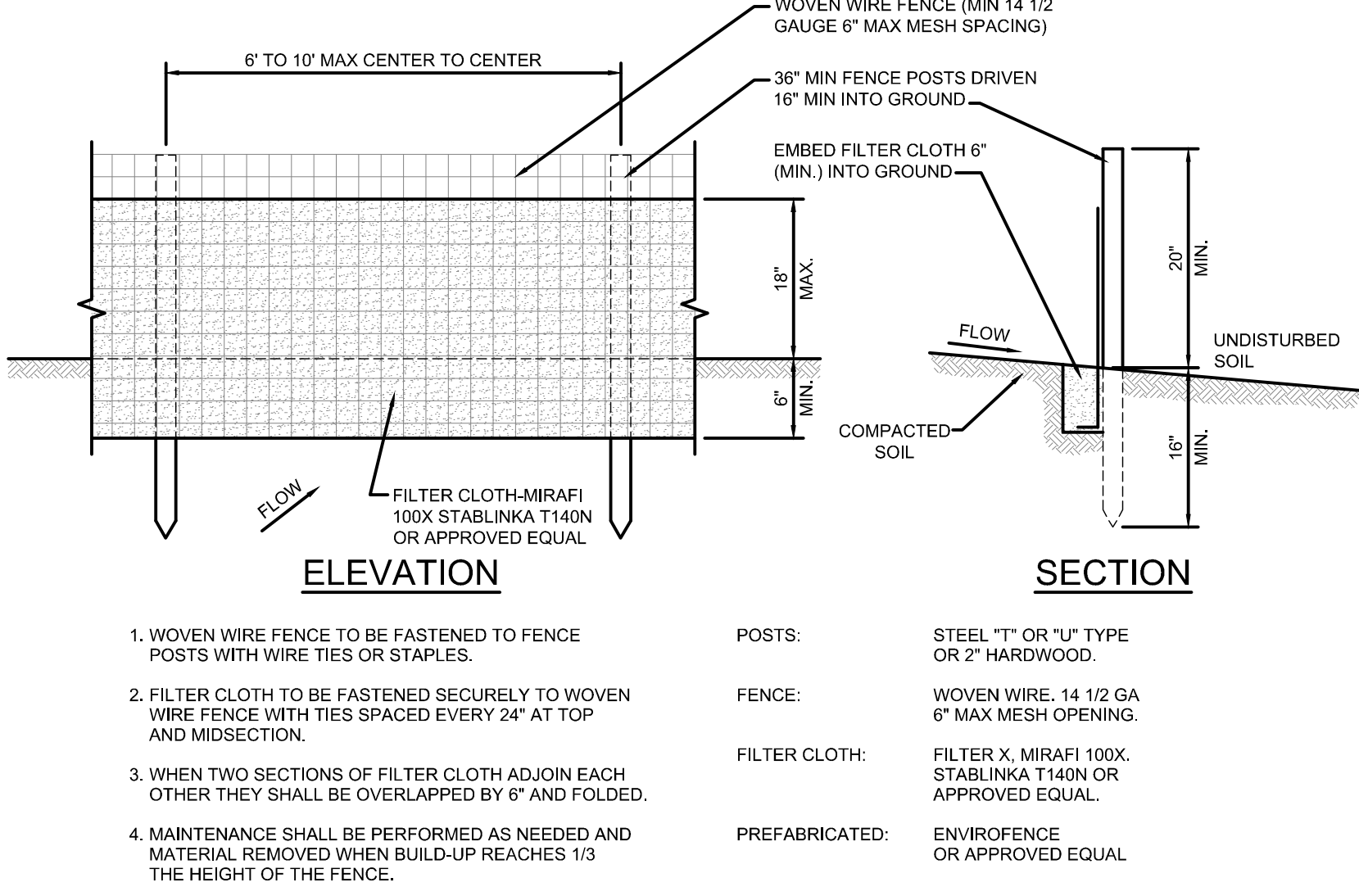
EROSION CONTROL BLANKET
NOT TO SCALE
50' MIN.
EXISTING ROAD
WOVEN GEOTEXTILE FABRIC



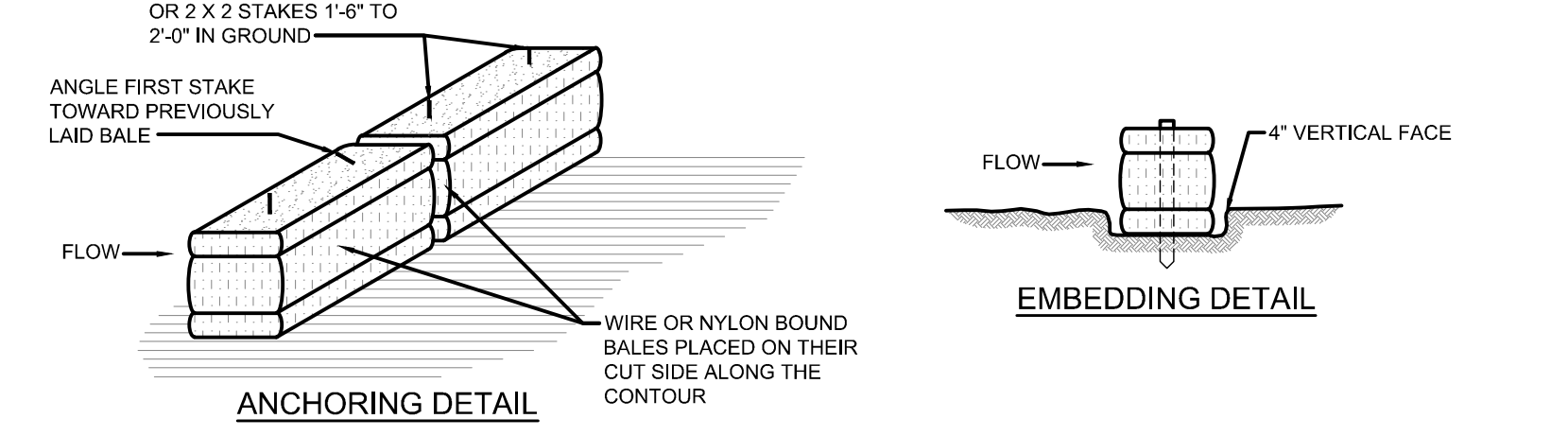
- 14. REMOVE EXCESS SPOILS FROM THE SITE THAT WILL NOT BE USED FOR THE FINAL DESIGN AND STABILIZATION STOCKPILED SOILS THAT FOR 48-HOURS OR MORE SHALL BE CONTAINED WITH SEDIMENT BARRIERS
15. INSPECT AND REPAIR EROSION CONTROL MEASURES DAILY IN AREAS OF ACTIVE CONSTRUCTION
16. REPAIR WORK SHOULD BE INITIATED UPON DISCOVERY OF THE PROBLEM BUT NO LATER THAN THE END OF THE NEXT WORKDAY

ISSUED FOR PERMITTING
NOT FOR CONSTRUCTION

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



- 1. WOVEN WIRE FENCE TO BE FASTENED TO FENCE POSTS WITH WIRE TIES OR STAPLES
2. FILTER CLOTH TO 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



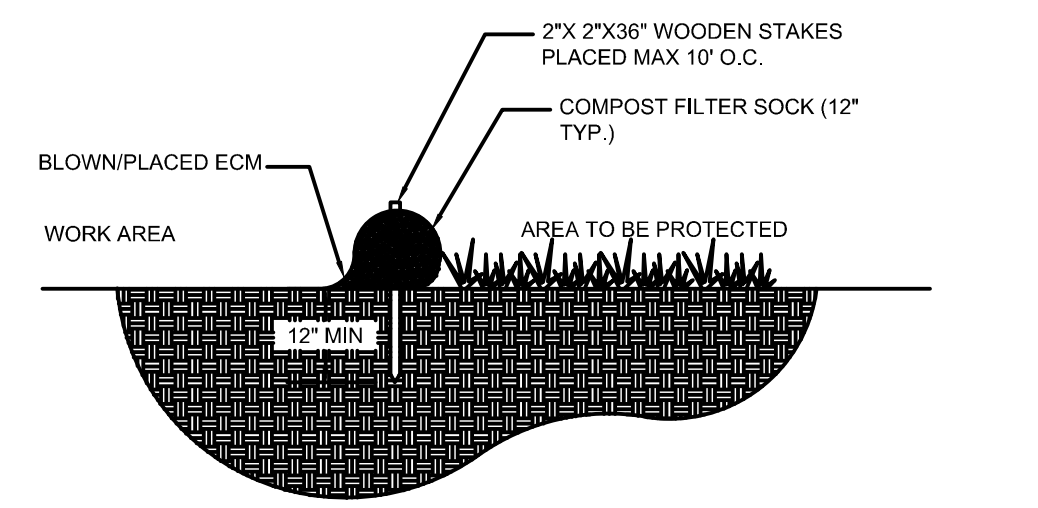
STRAW BALE BARRIER
NOT TO SCALE
2" RE-BARS, STEEL PICKETS, OR 2 X 2 STAKES 1'-6" TO 2'-0" IN GROUND
ANGLE FIRST STAKE TOWARD PREVIOUSLY LAID BALE



DEWATERING NOTES:

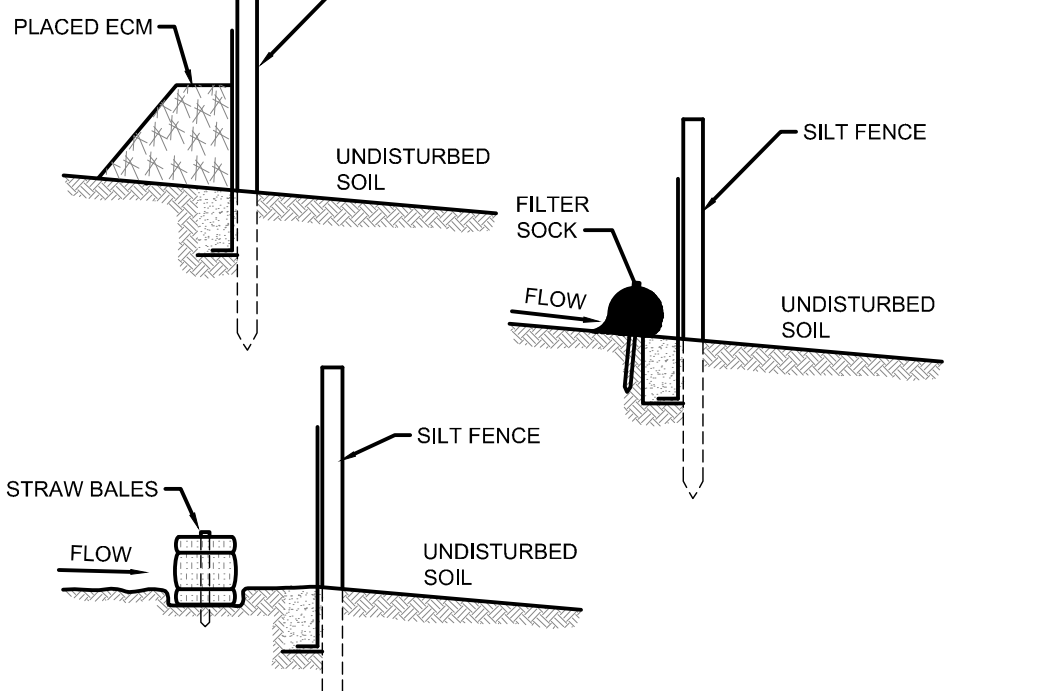
- 1. THE CONTRACTOR SHALL INSTALL, MAINTAIN, AND OPERATE ALL CHANNELS, SUMPS, AND ALL OTHER TEMPORARY DIVERSION AND PROTECTIVE WORKS NEEDED TO DIVERT STREAM FLOW AND OTHER SURFACE WATER THROUGH OR AROUND THE CONSTRUCTION SITE
2. OPEN EXCAVATIONS SHALL BE DEWATERED AND KEPT FREE OF STANDING WATER AND MUDDY CONDITIONS AS NECESSARY FOR THE PROPER EXECUTION OF THE WORK

EROSION CONTROL BERM
NOT TO SCALE
2"X 2"X36" WOODEN STAKES PLACED MAX 10' O.C.
COMPOST FILTER SOCK (12" TYP.)
BLOWN/PLACED ECM

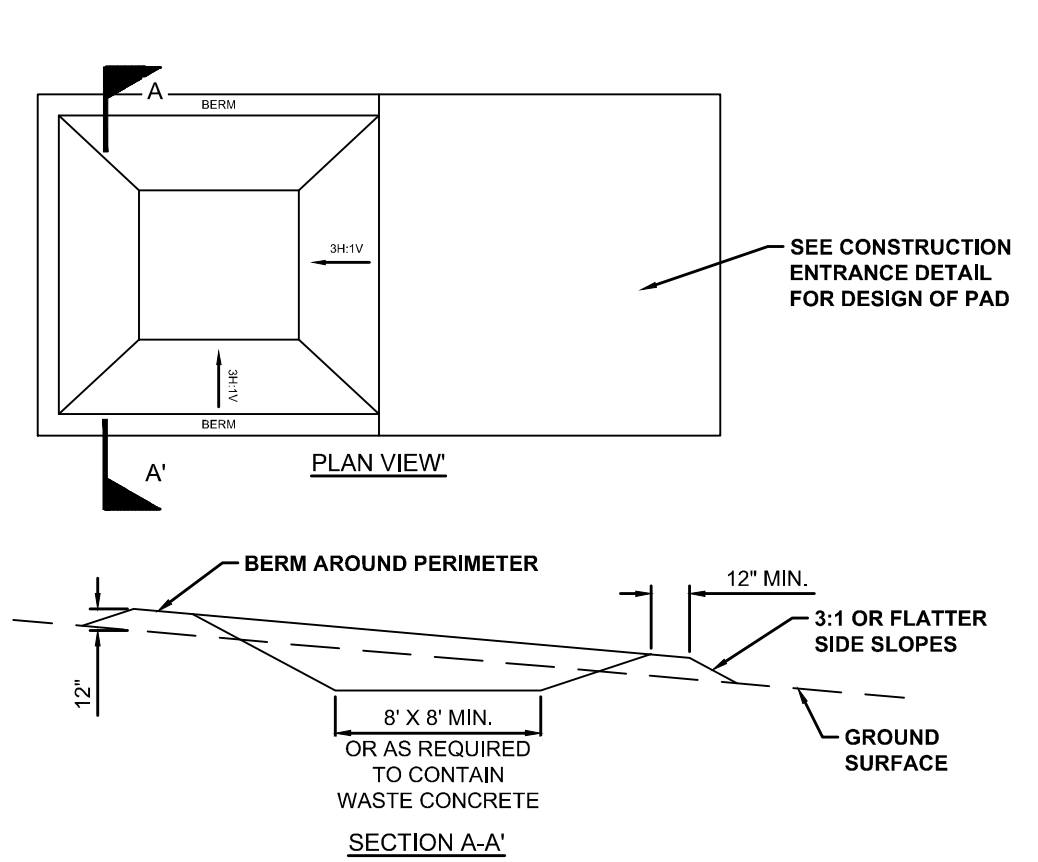


- 1. STONE SIZE - USE 2" CRUSHED STONE
2. LENGTH - NOT LESS THAN 50 FEET
3. THICKNESS - NOT LESS THAN SIX (6) INCHES

COMPOST FILTER SOCK
NOT TO SCALE



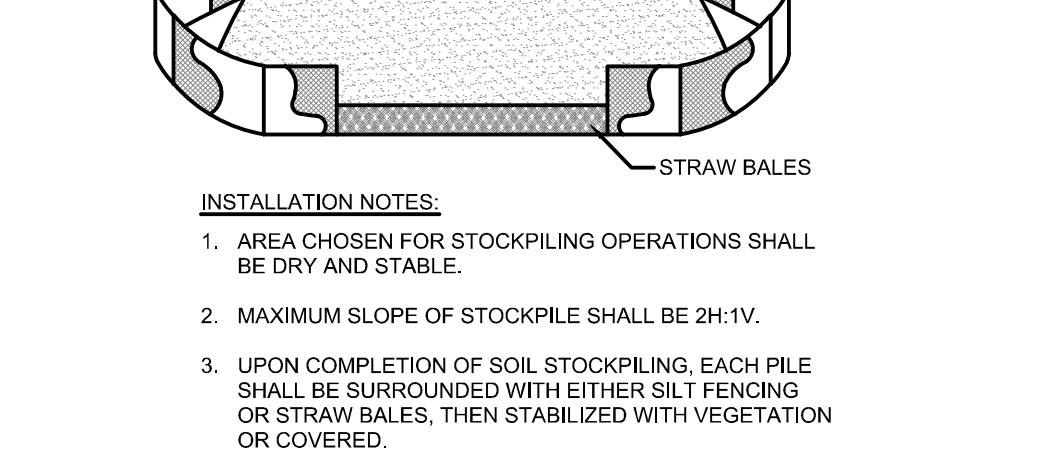
PAIRED PERIMETER CONTROLS FOR CRITICAL AREAS
NOT TO SCALE



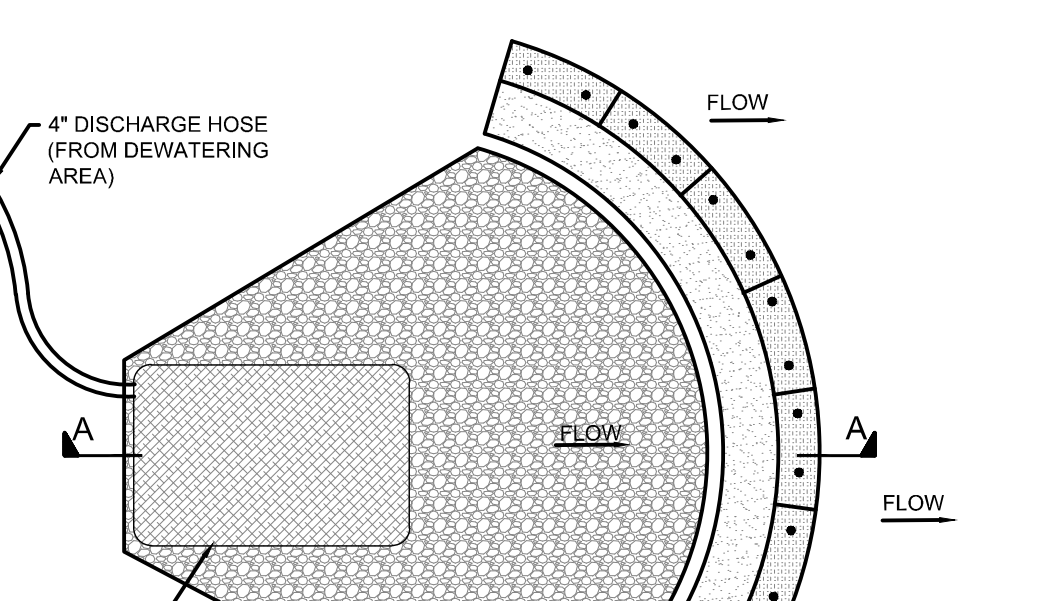
- 1. CONCRETE WASHOUT AREAS ARE TO BE INSTALLED AT SUBSTATION SITE, LAYDOWN AREA AND WHEREVER ELSE CONCRETE IS USED FOR THE PROJECT
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON THE SITE
3. VEHICLE TRACKING CONTROL IS REQUIRED AT THE ACCESS POINT

CONCRETE WASHOUT AREA MAINTENANCE NOTES:

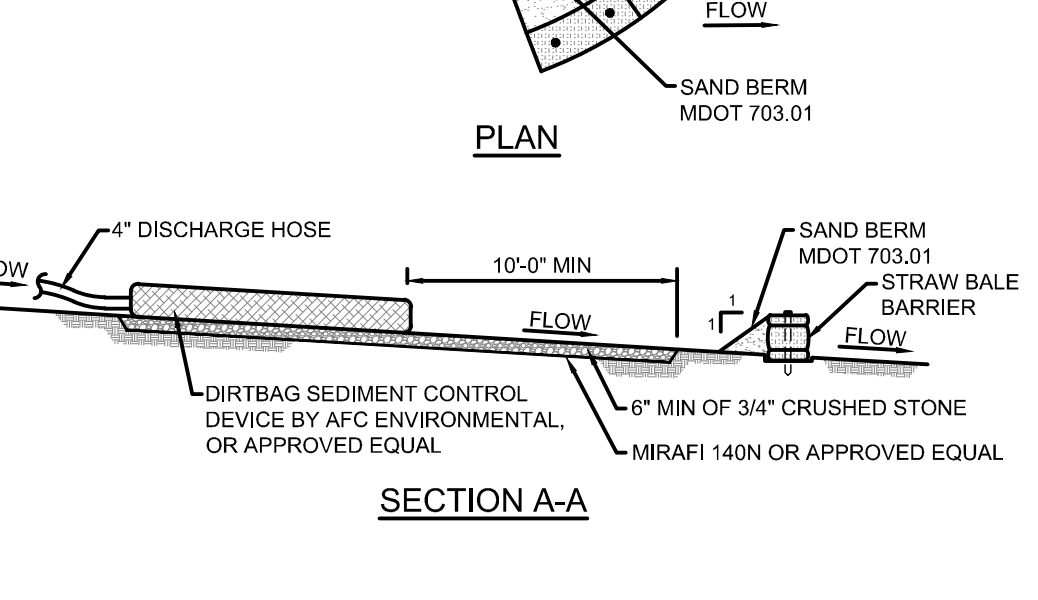
- 1. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE
2. AT THE END OF CONSTRUCTION, REMOVE ALL CONCRETE, COVER THE DISTURBED AREA WITH TOPSOIL, DRILL SEED AND CRIMP MULCH OR OTHERWISE STABILIZE IN A MANNER APPROVED BY THE LOCAL JURISDICTION



TYPICAL SOIL STOCKPILE
NOT TO SCALE



- 1. DIRT BAG MATERIAL BASED ON PARTICLE SIZE IN DIRTY WATER, I.E. FOR COARSE PARTICLES A WOVEN MATERIAL IS PREFERRED
2. DO NOT OVER PRESSURIZE DIRT BAG OR USE BEYOND CAPACITY



- 1. DIRT BAG MATERIAL BASED ON PARTICLE SIZE IN DIRTY WATER, I.E. FOR COARSE PARTICLES A WOVEN MATERIAL IS PREFERRED
2. DO NOT OVER PRESSURIZE DIRT BAG OR USE BEYOND CAPACITY
3. LOCATE DISCHARGE SITE AS INDICATED ON THE SITE GRADING PLAN

EXCAVATION DEWATERING DETAIL
NOT TO SCALE

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TRC logo and contact information: TRC Companies, Inc., 6 Ashley Drive, 1st Floor, Scarborough, Me 04074

Table with 3 columns: Rev, Issued For, Date. Row 1: 1, Per DEP Comments Dated: 2/28/2020, 3/19/2020

Professional Engineer Seal for Stephen M. Loss, No. 14351, State of Maine.

Project information: 1115 RIVERSIDE DRIVE SOLAR PROJECT, AUBURN, ME 04210

EROSION CONTROL NOTES & DETAILS. Drawing Title: C-501 A. Scale: As Shown. Approved By: CAW. Dwg No: Size: D. Sheet Rev: A.