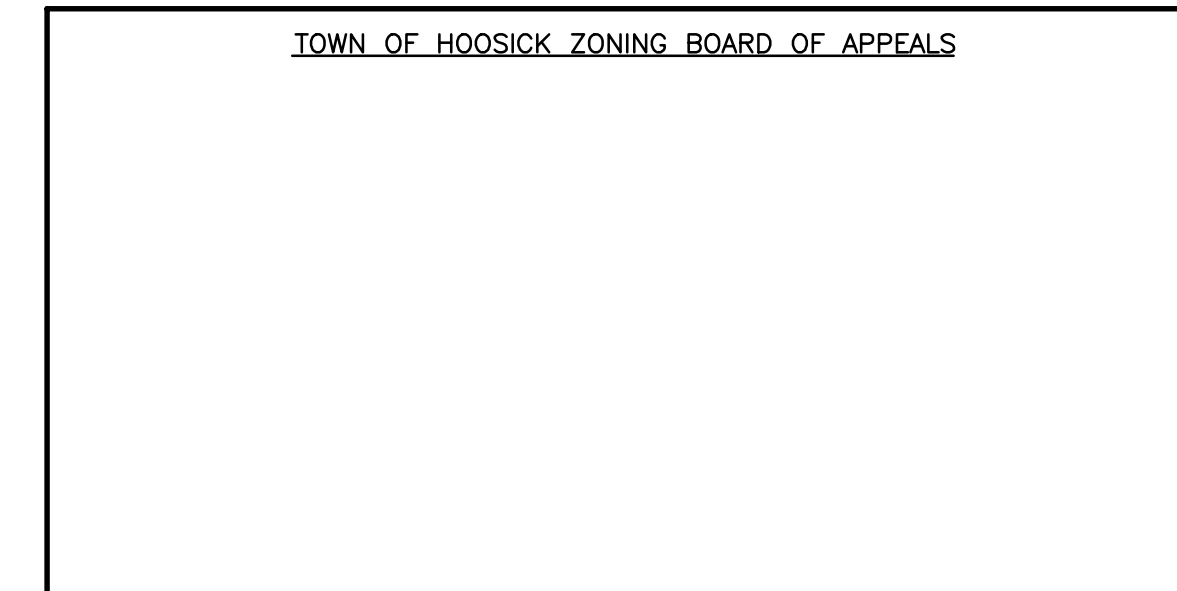


# CIVIL PERMIT PLANS FOR WILSON HILL ROAD SOLAR ARRAY

5.0 MW AC

LOCATED AT

469 Wilson Hill Road  
Hoosick, NY 12090



## APPLICANT/PROJECT OWNER

WILSON HILL SOLAR, LLC  
101 SUMMER STREET, 2ND FLOOR  
BOSTON, MA 02110

## CIVIL ENGINEER

THE ENVIRONMENTAL DESIGN PARTNERSHIP, LLP  
900 ROUTE 146  
CLIFTON PARK, NY 12065  
(518) 371-7621

## SURVEYOR

THE ENVIRONMENTAL DESIGN PARTNERSHIP, LLP  
900 ROUTE 146  
CLIFTON PARK, NY 12065  
(518) 371-7621

## SOLAR CONSULTANT

NEXAMP, INC.  
101 SUMMER STREET, 2ND FLOOR  
BOSTON, MA 02110  
CONTACT: STACEY EMERICK  
PHONE: 828-707-6514

## LOCATION MAP

(NOT TO SCALE)



## Sheet List Table

SHEET NUMBER	SHEET TITLE
C-100	COVER SHEET
2 OF 2	BOUNDARY AND TOPOGRAPHIC SURVEY MAP
C-201	REMOVALS AND TREE CLEARING PLAN
C-300	OVERALL EROSION, LAYOUT, AND MATERIALS PLAN
C-301	EROSION, LAYOUT, AND MATERIALS PLAN
C-302	EROSION, LAYOUT, AND MATERIALS PLAN
C-303	EROSION, LAYOUT, AND MATERIALS PLAN
C-304	EROSION, LAYOUT, AND MATERIALS DETAILS
C-400	OVERALL DRAINAGE AND GRADING PLAN
C-401	DRAINAGE AND GRADING PLAN
C-402	DRAINAGE AND GRADING PLAN
C-403	DRAINAGE AND GRADING PLAN
C-404	DRAINAGE AND GRADING PLAN
C-405	CONSTRUCTION ROAD PROFILE
C-406	ACCESS ROAD PROFILES
C-500	SITE DETAILS
C-501	SITE DETAILS
C-502	SITE DETAILS
L-100	LANDSCAPING AND BUFFER PLAN

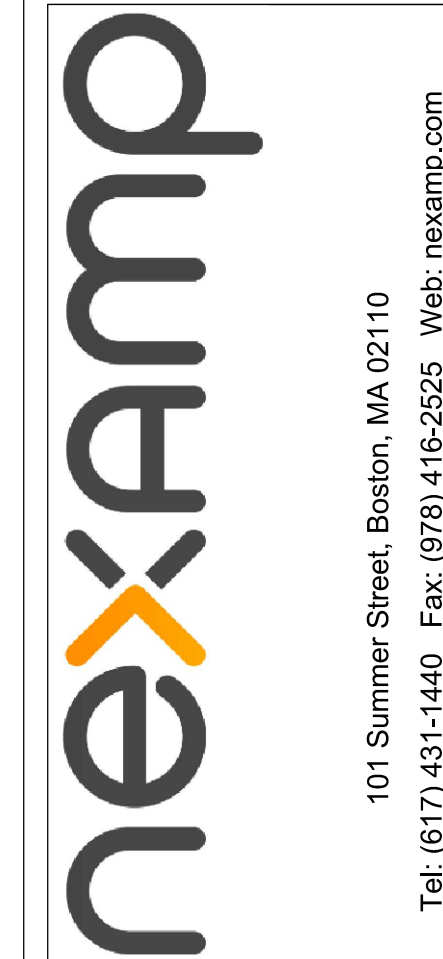
## BENCHMARKS

BENCHMARKS:  
CONTROL TO BE SET BY EDPLLP

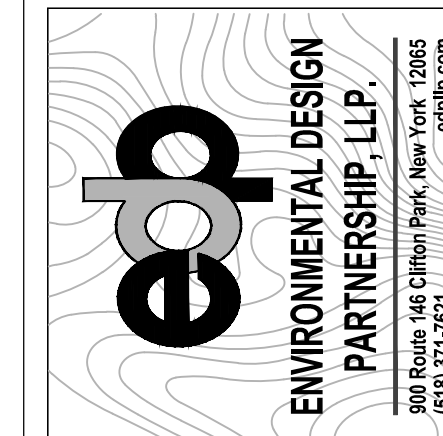
## SITE INFORMATION

PARCEL ZONING  
AGRICULTURAL / RESIDENTIAL (AR)

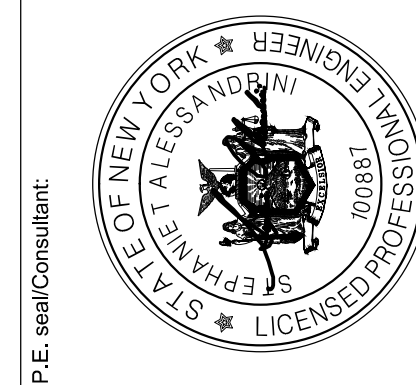
PROJECT DESCRIPTION  
5.0 MW AC FIXED TILT PV SYSTEM



101 Summer Street, Boston, MA 02110  
Tel: (617) 431-1440 Fax: (978) 416-2525 Web: nexamp.com



Rev	Issued For	Date
A	PRELIM. PLAN SET	5/22/2023
B	INTERNAL COMMENTS	8/10/2023
C	INTERNAL COMMENTS	9/15/2023

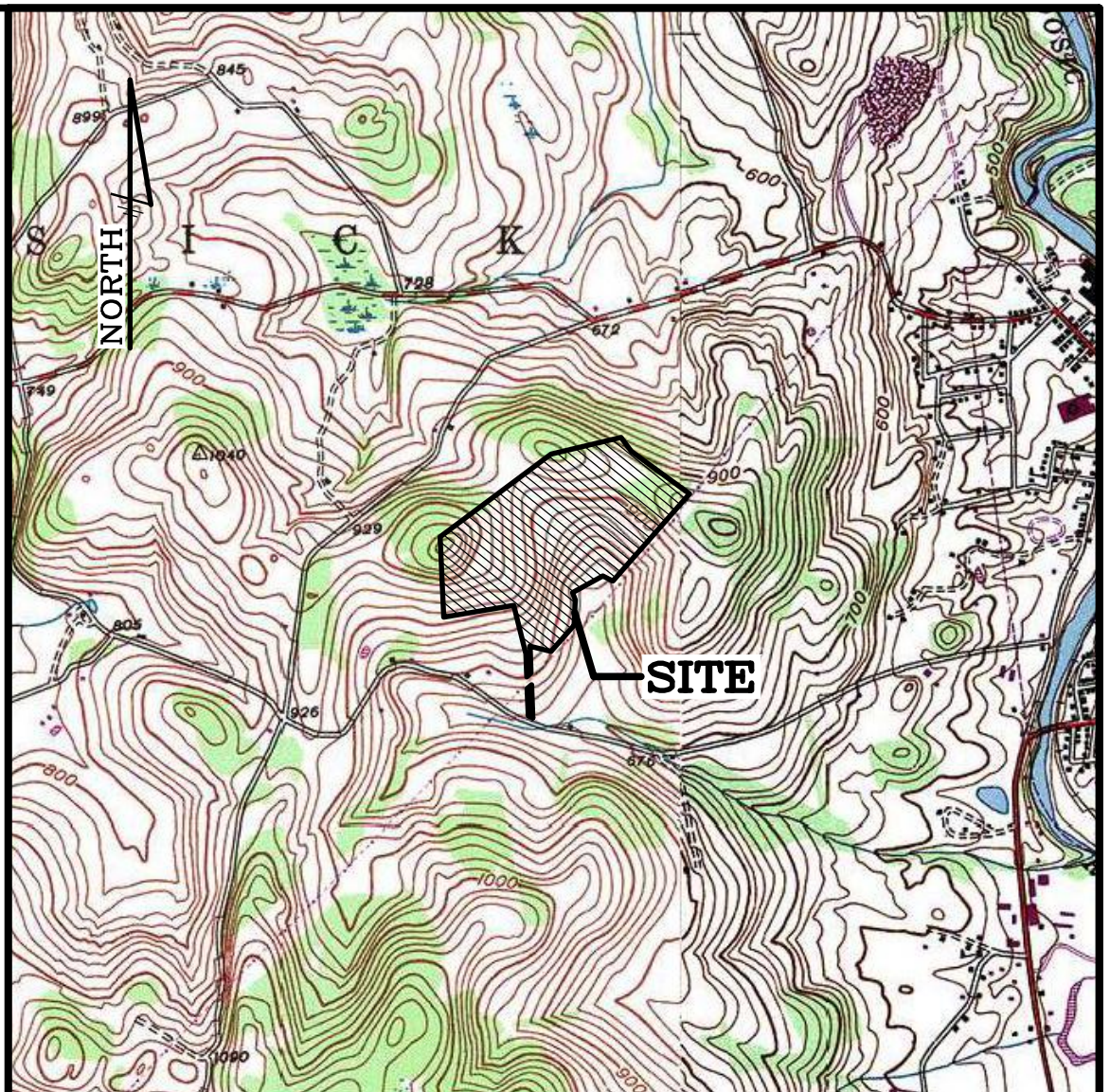
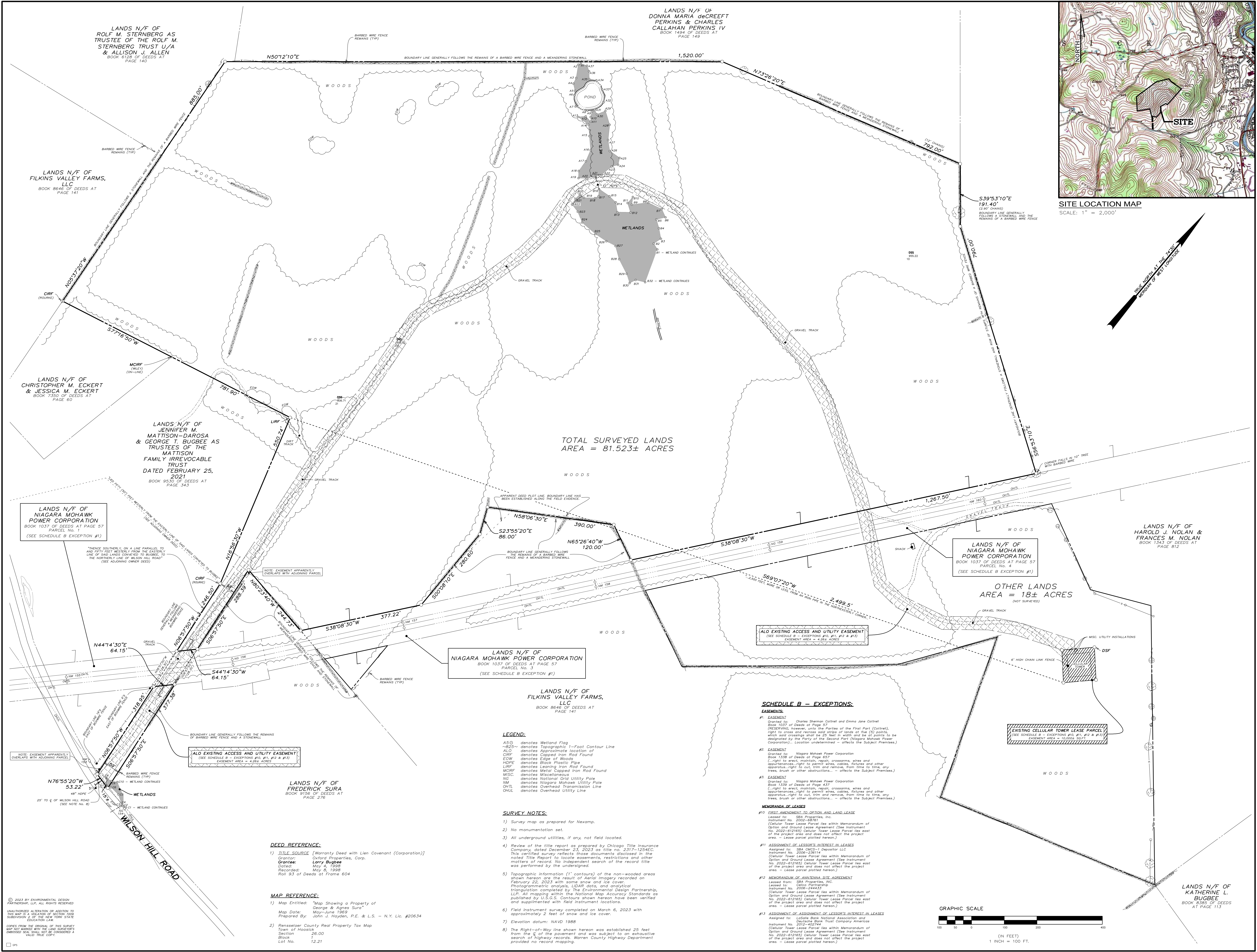


Project:  
**WILSON HILL SOLAR**  
469 Wilson Hill Road  
Hoosick Falls, NY 12090

Drawing Title:  
**COVER SHEET**  
NOT FOR CONSTRUCTION  
Drawn by: BMW Scale: As Shown Approved by: STA

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

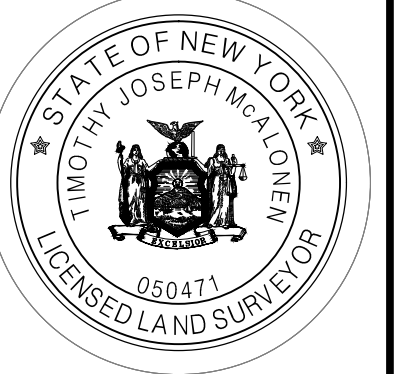
FOR MUNICIPAL APPROVAL ONLY - NOT INTENDED FOR CONSTRUCTION



**BOUNDARY AND TOPOGRAPHIC  
 SURVEY OF A PORTION OF LANDS OF  
 LARRY BUGBEE**  
 ALONG WILSON HILL ROAD  
 TOWN OF HOOSICK  
 RENSSELAER COUNTY, NEW YORK

NO.	REVISION	DATE	BY
1	ISSUED FOR PERMIT	4/11/23	JKK

TIMOTHY J. MACALONEN  
 PLS 50,471  
 tim@stateofny.com



SCALE: 1" = 100'

**DRAFT**

SHEET TITLE:  
**BOUNDARY AND TOPOGRAPHIC  
 SURVEY MAP**




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 COPIES FROM THE ORIGINAL OF THIS SURVEY MAP NOT MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL SHALL NOT BE CONSIDERED A VALID TRUE COPY.

C:\Users\jmacalonen\Documents\Design\Partnership\SharePoint\_Site - Documents\A-2\RENSSELAER\HOOSICK\Wilson Hill Road\469 - Niagara Survey\Map\SURVEY\Drawings\SURVEY\0203\0203-NE\MAP-WILSON-HILL.dwg, Sep. 18, 2023, 10:02:04AM

**SITE REMOVAL AREAS**

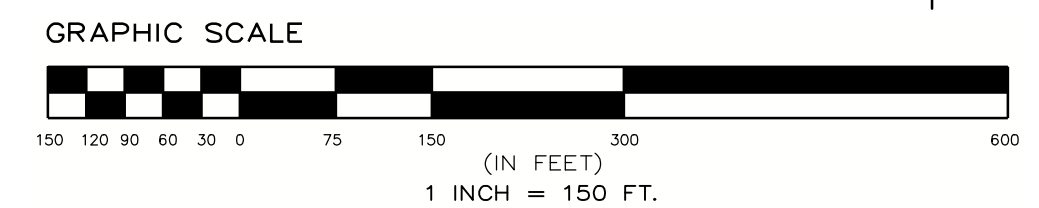
- BRUSH & TREE CLEARING AND GRUBBING ±7.165 AC
- TOTAL TREE CLEARING ±7.165 AC

**REMOVALS LEGEND:**

-  DENOTES BRUSH AND/OR TREE CLEARING AND GRUBBING AREA
-  DENOTES BRUSH AND/OR TREE CLEARING ONLY
-  DENOTES ACEC WETLAND AREA
- X** DENOTES ITEMS TO BE REMOVED AND DISPOSED OF OFFSITE

**REMOVALS NOTE:**

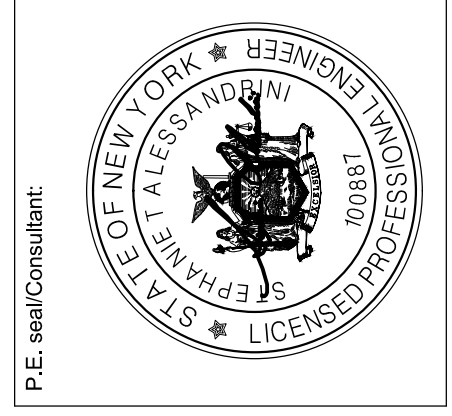
1. UNDERGROUND UTILITIES ARE SHOWN FROM FIELD LOCATION WHERE POSSIBLE AND FROM RECORD DATA WHERE FOUND. EXACT LOCATION OF UTILITIES MAY DIFFER FROM THE LOCATION SHOWN, AND ADDITIONAL UTILITIES MAY EXIST. VERIFY THE PRESENCE AND EXACT LOCATION OF ALL UTILITIES WITHIN THE CONTRACT LIMIT LINE AND/OR LIMITS OF DISTURBANCE PRIOR TO COMMENCING ANY EXCAVATION WORK. NOTIFY SITE ENGINEER IMMEDIATELY IF LOCATION CONFLICTS WITH LAYOUT.
2. RETURN ALL DISTURBED AREAS TO THEIR EXISTING COVER TYPES UPON CONSTRUCTION COMPLETION UNLESS OTHERWISE SPECIFIED.
3. INSTALL EROSION CONTROL MEASURES PRIOR TO ALL REMOVAL ACTIVITIES.
4. MAINTAIN EMERGENCY ACCESS TO SITE AT ALL TIMES.
5. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL COORDINATE ALL WORK WITH UTILITY EASEMENT AREA WITH UTILITY OWNER.



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

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Rev	Issued For	Date
A	PRELIM PLAN SET	5/22/2023
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**WILSON HILL SOLAR**  
 469 Wilson Hill Road  
 Hoosick Falls, NY 12090

**REMOVALS AND TREE CLEARING PLAN**  
 NOT FOR CONSTRUCTION  
 Drawn by: BMW Scale: As Shown Approved by: STA

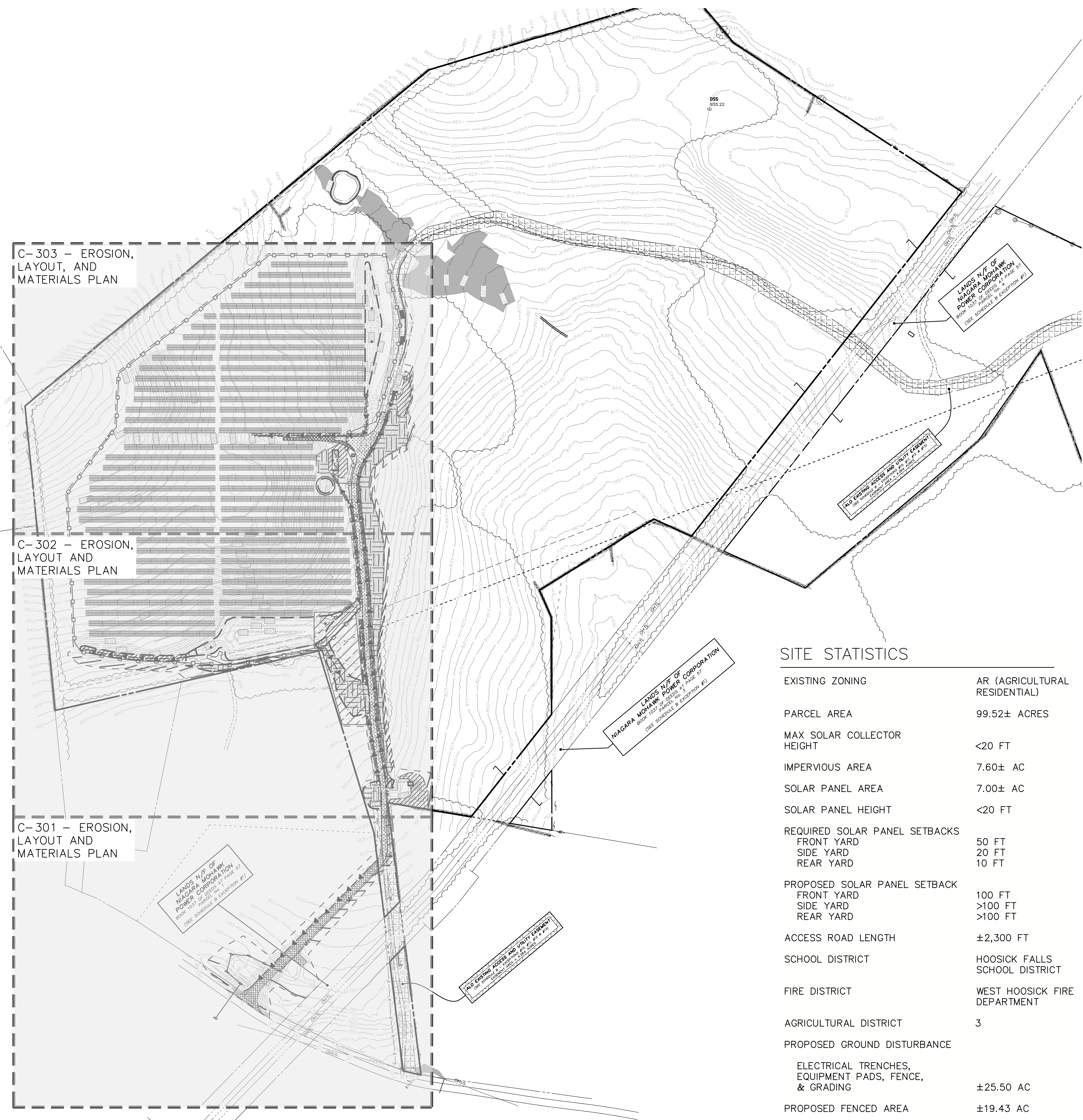
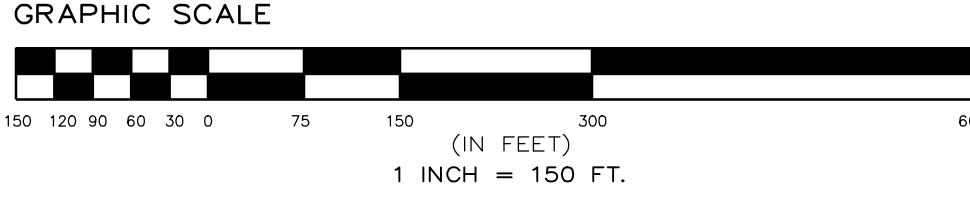
Dwg No: **C-201** Size: **D** Sheet Rev: **C**

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### EROSION, LAYOUT, AND MATERIALS PLAN LEGEND

- DENOTES EXISTING GRADE
- DENOTES USACE WETLAND AREAS
- DENOTES TEMPORARY CONSTRUCTION ACCESS ROAD
- DENOTES IMPERVIOUS MAINTENANCE ACCESS ROAD
- DENOTES RIP-RAP SLOPE/OUTLET PROTECTION
- DENOTES TEMPORARY EROSION CONTROL BLANKET (ON SLOPES OVER 10%)
- DENOTES FIXED KNOT FARM FENCE
- DENOTES SOLAR PANEL TRACKER (SEE ELECTRICAL PLANS FOR DETAILS)
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- DENOTES PROPOSED CONTOUR
- DENOTES PERMANENT OVERLAND FLOW DISPERSION DEVICE
- DENOTES PROPOSED 12" COMPOST FILTER SOCK
- DENOTES SWALE WITH CHECK DAM
- STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN
- CONTROL POINT (PENDING)



C-303 – EROSION, LAYOUT, AND MATERIALS PLAN

C-302 – EROSION, LAYOUT AND MATERIALS PLAN

C-301 – EROSION, LAYOUT AND MATERIALS PLAN

- NOTES:**
1. ALL AREAS TO BE REVEGETATED SHALL HAVE A MINIMUM OF FOUR INCHES OF TOPSOIL.
  2. AREAS USED FOR PARKING DURING CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS INCLUDING, BUT NOT LIMITED TO, DECOMPACTION, REGRADING, LOAMING, AND SEEDING. IN NO CASE SHALL PARKING AREAS, LAYDOWN AREAS, CONSTRUCTION TRAILERS, AND PORTABLE TOILETS BE LOCATED WITHIN A WETLAND RESOURCE AREA AND/OR ANY BUFFER ZONES.
  3. WETLANDS NEAR THE SOLAR ARRAY SHALL BE PROTECTED WITH FILTEREX SILT/SOXX OR SILT FENCE. EROSION AND SEDIMENT CONTROL FEATURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF SOIL DISTURBING ACTIVITIES.
  4. AREAS DESIGNATED FOR CUTTING SHALL BE CUT, ONLY. NO GRUBBING OR STRIPPING OF TOPSOIL IS NECESSARY, EXCEPT FOR THOSE AREAS SHOWN ON THE SITE PLANS.
  5. PERMANENT STABILIZATION SHALL BE ESTABLISHED AS SOON AS FEASIBLE GIVEN THE GROWING SEASON.
  6. FOR ACCESS DURING CONSTRUCTION, CONTRACTOR SHALL UTILIZE A TEMPORARY, IMPERVIOUS ACCESS ROAD ACCORDING TO THE DETAIL PROVIDED ON SHEET C-500. ONCE CONSTRUCTION HAS BEEN COMPLETED, THE TEMPORARY, IMPERVIOUS ACCESS ROAD SHALL BE REMOVED. THE PERMANENT IMPERVIOUS ACCESS ROAD SHALL NOT BE CONSTRUCTED OR USED UNTIL ALL AREAS SUBJECT TO RUNOFF ONTO THE IMPERVIOUS ACCESS HAVE ACHIEVED FINAL STABILIZATION. SEE IMPERVIOUS ACCESS ROAD DETAIL FOR ADDITIONAL DETAILS ON CONSTRUCTION.
  7. PROPOSED UTILITY AND CUSTOMER POLE LOCATIONS ARE SUBJECT TO UTILITY APPROVAL AND MAY CHANGE. CONTRACTOR SHALL VERIFY FINAL POLE LOCATIONS WITH THE OWNER PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
  8. FILTER SOCK CHECK DAMS, STONE CHECK DAMS, OR EQUAL ARE RECOMMENDED TO BE USED WITHIN SWALES PRIOR TO THE ESTABLISHMENT OF VEGETATION, WHERE VELOCITIES OF THE 2 YEAR, 24 HOUR STORM EXCEED 4 FEET PER SECOND, AND WITHIN SWALES WHERE EROSION IS PRESENT. ALTERNATIVE EROSION AND SEDIMENT CONTROL PRACTICES MAY ALSO BE USED WITHIN SWALES (EROSION CONTROL BLANKETS, RIP RAP LINING, ETC.) IF APPROVED BY OWNER.
  9. ALL COMPACTED AREAS, INTERIOR TO THE ARRAY, SHALL RECEIVE DECOMPACTION AND DEEP-RIPPING SOIL RESTORATION PER THE NYSDEC "BLUE BOOK" RECOMMENDATIONS.

### SITE STATISTICS

EXISTING ZONING	AR (AGRICULTURAL RESIDENTIAL)
PARCEL AREA	99.52± ACRES
MAX SOLAR COLLECTOR HEIGHT	<20 FT
IMPERVIOUS AREA	7.60± AC
SOLAR PANEL AREA	7.00± AC
SOLAR PANEL HEIGHT	<20 FT
REQUIRED SOLAR PANEL SETBACKS	
FRONT YARD	50 FT
SIDE YARD	20 FT
REAR YARD	10 FT
PROPOSED SOLAR PANEL SETBACK	
FRONT YARD	100 FT
SIDE YARD	>100 FT
REAR YARD	>100 FT
ACCESS ROAD LENGTH	±2,300 FT
SCHOOL DISTRICT	HOOSICK FALLS SCHOOL DISTRICT
FIRE DISTRICT	WEST HOOSICK FIRE DEPARTMENT
AGRICULTURAL DISTRICT	3
PROPOSED GROUND DISTURBANCE	
ELECTRICAL TRENCHES, EQUIPMENT PADS, FENCE, & GRADING	±25.50 AC
PROPOSED FENCED AREA	±19.43 AC

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

**ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.**  
300 Route 146, Clifton Park, New York 12065  
(518) 371-7121

Rev	Issued For	Date
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**WILSON HILL SOLAR**

469 Wilson Hill Road  
Hoosick Falls, NY 12090

**OVERALL EROSION, LAYOUT, AND MATERIALS PLAN**

NOT FOR CONSTRUCTION

Scale: As Shown Approved by: STA

Drawn by: BMW

Dwg No: **C-300** Size: D Sheet Rev: **C**

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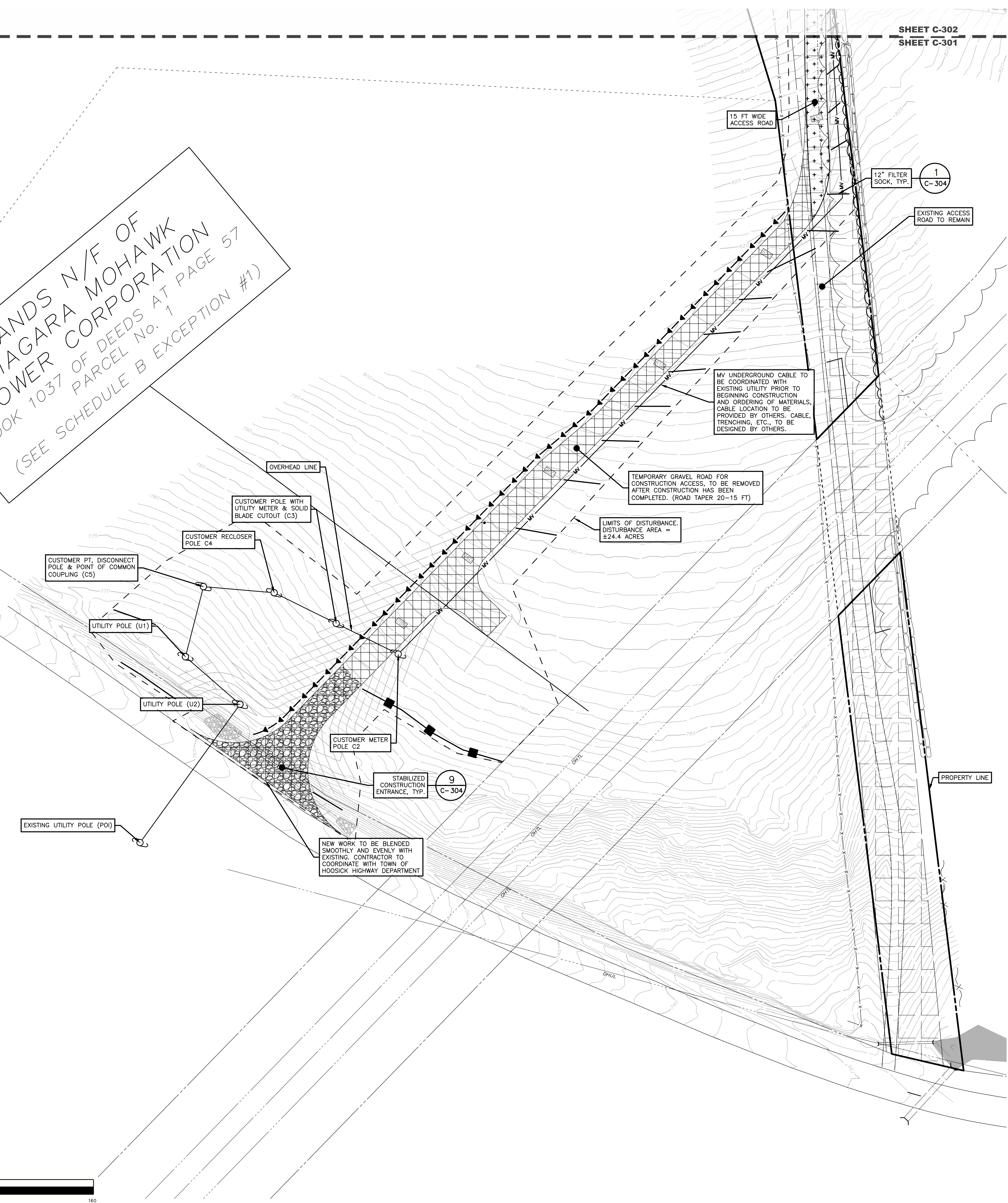
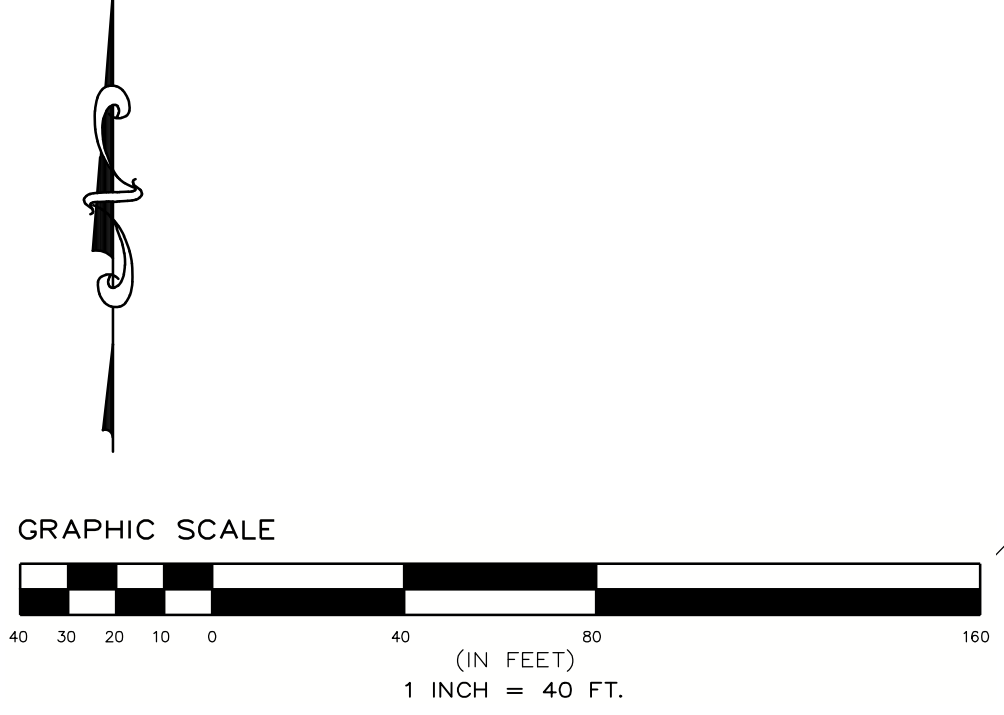
LANDS N/F OF NIAGARA MOHAWK POWER CORPORATION BOOK 1037 OF DEEDS AT PAGE 57 PARCEL No. 1 (SEE SCHEDULE B EXCEPTION #1)

SHEET C-302 SHEET C-301

EROSION, LAYOUT, AND MATERIALS PLAN LEGEND

- Legend items: DENOTES EXISTING GRADE, DENOTES USACE WETLAND AREAS, DENOTES STABILIZED CONSTRUCTION ENTRANCE, DENOTES TEMPORARY CONSTRUCTION ACCESS ROAD, DENOTES IMPERVIOUS MAINTENANCE ACCESS ROAD, DENOTES PROPOSED CONTOUR, DENOTES PROPOSED 12" COMPOST FILTER SOCK, CONTROL POINT (PENDING), DENOTES SWALE WITH CHECK DAM.

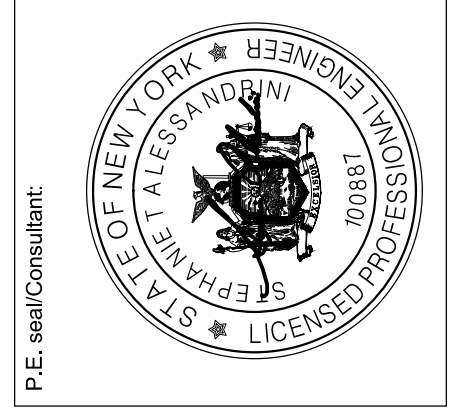
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nexamp logo and contact information: 101 Summer Street, Boston, MA 02110. Tel: (617) 431-1440 Fax: (978) 416-2525 Web: nexamp.com

ep logo and contact information: ENVIRONMENTAL DESIGN PARTNERSHIP, LLP. 300 Route 104, Clifton Park, New York 12065 (518) 371-1621

Revision table with columns: Rev, Issued For, Date. Rows A, B, C.



WILSON HILL SOLAR project information: 469 Wilson Hill Road, Hoosick Falls, NY 12090

Drawing Title: EROSION, LAYOUT AND MATERIALS PLAN. NOT FOR CONSTRUCTION. Scale: As Shown. Approved by: STA

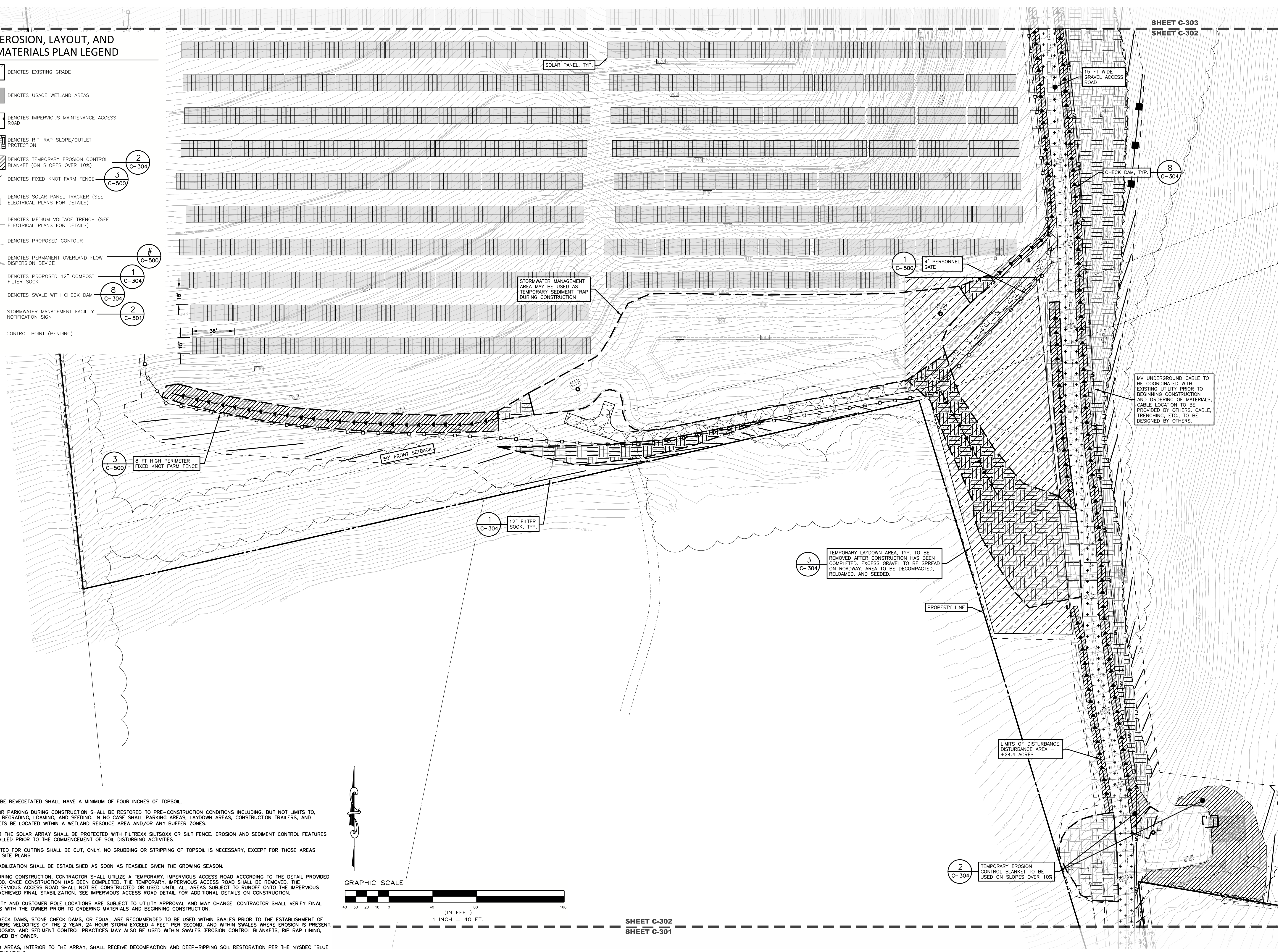
Dwg No: C-301, Size: D, Sheet Rev: C

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### EROSION, LAYOUT, AND MATERIALS PLAN LEGEND

- DENOTES EXISTING GRADE
- DENOTES USACE WETLAND AREAS
- DENOTES IMPERVIOUS MAINTENANCE ACCESS ROAD
- DENOTES RIP-RAP SLOPE/OUTLET PROTECTION
- DENOTES TEMPORARY EROSION CONTROL BLANKET (ON SLOPES OVER 10%)
- DENOTES FIXED KNOT FARM FENCE
- DENOTES SOLAR PANEL TRACKER (SEE ELECTRICAL PLANS FOR DETAILS)
- DENOTES MEDIUM VOLTAGE TRENCH (SEE ELECTRICAL PLANS FOR DETAILS)
- DENOTES PROPOSED CONTOUR
- DENOTES PERMANENT OVERLAND FLOW DISPERSION DEVICE
- DENOTES PROPOSED 12" COMPOST FILTER SOCK
- DENOTES SWALE WITH CHECK DAM
- STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN
- CONTROL POINT (PENDING)

- 2 C-304
- 3 C-500
- # C-500
- 1 C-304
- 8 C-304
- 2 C-501

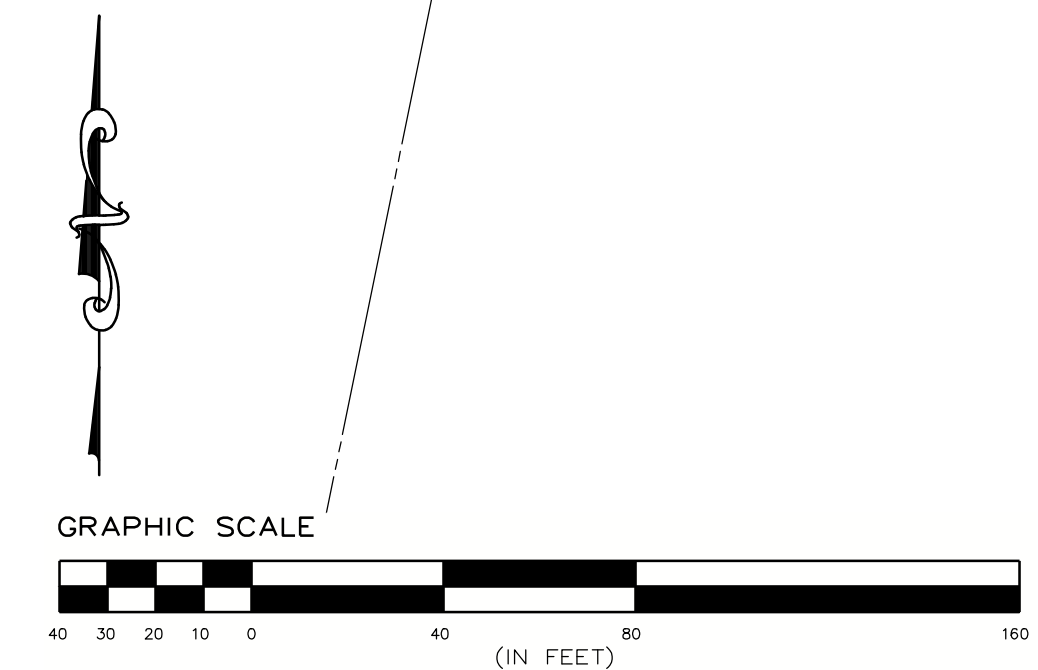


MV UNDERGROUND CABLE TO BE COORDINATED WITH EXISTING UTILITY PRIOR TO BEGINNING CONSTRUCTION AND ORDERING OF MATERIALS. CABLE LOCATION TO BE PROVIDED BY OTHERS. CABLE, TRENCHING, ETC. TO BE DESIGNED BY OTHERS.

3 C-304 TEMPORARY LAYDOWN AREA, TYP. TO BE REMOVED AFTER CONSTRUCTION HAS BEEN COMPLETED. EXCESS GRAVEL TO BE SPREAD ON ROADWAY. AREA TO BE DECOMPACTED, RELOADED, AND SEEDED.

2 C-304 TEMPORARY EROSION CONTROL BLANKET TO BE USED ON SLOPES OVER 10%

- NOTES:**
- ALL AREAS TO BE REVEGETATED SHALL HAVE A MINIMUM OF FOUR INCHES OF TOPSOIL.
  - AREAS USED FOR PARKING DURING CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS INCLUDING, BUT NOT LIMITED TO, DECOMPACTION, REGRADING, LOAMING, AND SEEDING. IN NO CASE SHALL PARKING AREAS, LAYDOWN AREAS, CONSTRUCTION TRAILERS, AND PORTABLE TOILETS BE LOCATED WITHIN A WETLAND RESOURCE AREA AND/OR ANY BUFFER ZONES.
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  - ALL COMPACTED AREAS, INTERIOR TO THE ARRAY, SHALL RECEIVE DECOMPACTION AND DEEP-RIPPING SOIL RESTORATION PER THE NYSDEC "BLUE BOOK" RECOMMENDATIONS.



SHEET C-302  
SHEET C-301

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A	PRELIM PLAN SET	5/22/2023
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P.E. seal/Consultant

**WILSON HILL SOLAR**

469 Wilson Hill Road  
Hoosick Falls, NY 12090

**EROSION, LAYOUT AND MATERIALS PLAN**

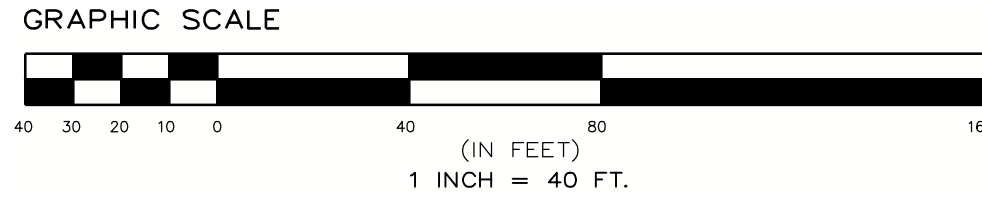
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Scale: As Shown Approved by: STA  
Drawn by: BMW

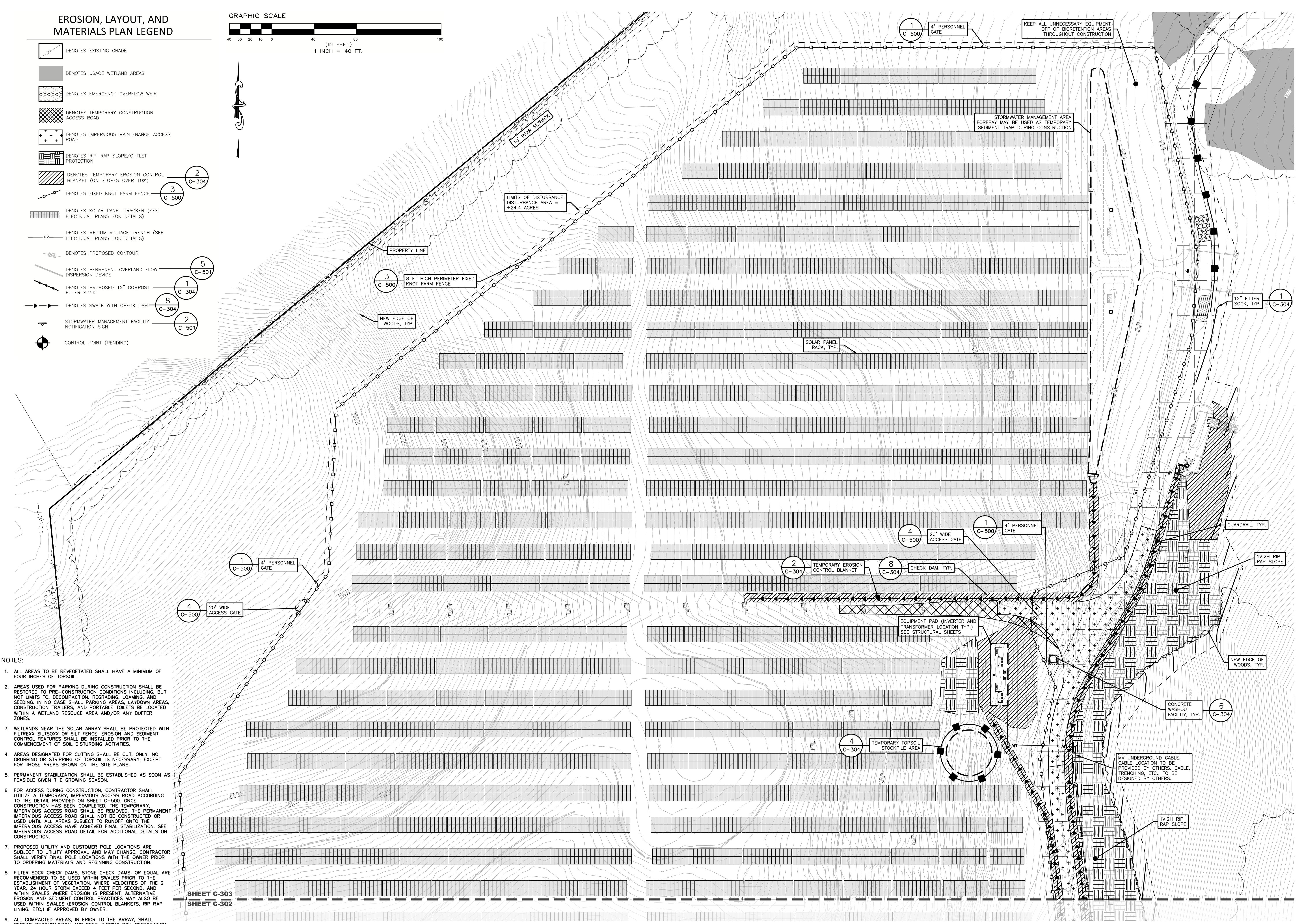
Dwg No: C-302 Size: D Sheet Rev: C

**EROSION, LAYOUT, AND MATERIALS PLAN LEGEND**

- DENOTES EXISTING GRADE
- DENOTES USACE WETLAND AREAS
- DENOTES EMERGENCY OVERFLOW WEIR
- DENOTES TEMPORARY CONSTRUCTION ACCESS ROAD
- DENOTES IMPERVIOUS MAINTENANCE ACCESS ROAD
- DENOTES RIP-RAP SLOPE/OUTLET PROTECTION
- DENOTES TEMPORARY EROSION CONTROL BLANKET (ON SLOPES OVER 10%)
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- DENOTES SOLAR PANEL TRACKER (SEE ELECTRICAL PLANS FOR DETAILS)
- DENOTES MEDIUM VOLTAGE TRENCH (SEE ELECTRICAL PLANS FOR DETAILS)
- DENOTES PROPOSED CONTOUR
- DENOTES PERMANENT OVERLAND FLOW DISPERSION DEVICE
- DENOTES PROPOSED 12" COMPOST FILTER SOCK
- DENOTES SWALE WITH CHECK DAM
- STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN
- CONTROL POINT (PENDING)



- 1 C-500
- 2 C-304
- 3 C-500
- 4 C-500
- 5 C-501
- 6 C-304
- 7 C-304
- 8 C-304



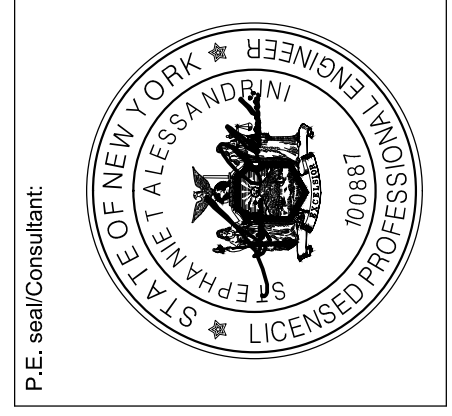
- NOTES:**
1. ALL AREAS TO BE REVEGETATED SHALL HAVE A MINIMUM OF FOUR INCHES OF TOPSOIL.
  2. AREAS USED FOR PARKING DURING CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS INCLUDING, BUT NOT LIMITED TO, DECOMPACTION, REGRADING, LOAMING, AND SEEDING. IN NO CASE SHALL PARKING AREAS, LAYDOWN AREAS, CONSTRUCTION TRAILERS, AND PORTABLE TOILETS BE LOCATED WITHIN A WETLAND RESOURCE AREA AND/OR ANY BUFFER ZONES.
  3. WETLANDS NEAR THE SOLAR ARRAY SHALL BE PROTECTED WITH FILTERREX SILTSOCKS OR SILT FENCE. EROSION AND SEDIMENT CONTROL FEATURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF SOIL DISTURBING ACTIVITIES.
  4. AREAS DESIGNATED FOR CUTTING SHALL BE CUT ONLY. NO GRUBBING OR STRIPPING OF TOPSOIL IS NECESSARY, EXCEPT FOR THOSE AREAS SHOWN ON THE SITE PLANS.
  5. PERMANENT STABILIZATION SHALL BE ESTABLISHED AS SOON AS FEASIBLE GIVEN THE GROWING SEASON.
  6. FOR ACCESS DURING CONSTRUCTION, CONTRACTOR SHALL UTILIZE A TEMPORARY IMPERVIOUS ACCESS ROAD ACCORDING TO THE DETAIL PROVIDED ON SHEET C-500. ONCE CONSTRUCTION HAS BEEN COMPLETED, THE TEMPORARY IMPERVIOUS ACCESS ROAD SHALL NOT BE CONSTRUCTED OR USED UNTIL ALL AREAS SUBJECT TO RUNOFF ONTO THE IMPERVIOUS ACCESS HAVE ACHIEVED FINAL STABILIZATION. SEE IMPERVIOUS ACCESS ROAD DETAIL FOR ADDITIONAL DETAILS ON CONSTRUCTION.
  7. PROPOSED UTILITY AND CUSTOMER POLE LOCATIONS ARE SUBJECT TO UTILITY APPROVAL AND MAY CHANGE. CONTRACTOR SHALL VERIFY FINAL POLE LOCATIONS WITH THE OWNER PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
  8. FILTER SOCK CHECK DAMS, STONE CHECK DAMS, OR EQUAL ARE RECOMMENDED TO BE USED WITHIN SWALES PRIOR TO THE ESTABLISHMENT OF VEGETATION, WHERE VELOCITIES OF THE 2 YEAR, 24 HOUR STORM EXCEED 4 FEET PER SECOND, AND WITHIN SWALES WHERE EROSION IS PRESENT. ALTERNATIVE EROSION AND SEDIMENT CONTROL PRACTICES MAY ALSO BE USED WITHIN SWALES (EROSION CONTROL BLANKETS, RIP RAP LINING, ETC.) IF APPROVED BY OWNER.
  9. ALL COMPACTED AREAS, INTERIOR TO THE ARRAY, SHALL RECEIVE DECOMPACTION AND DEEP-RIPPING SOIL RESTORATION PER THE NYSDEC "BLUE BOOK" RECOMMENDATIONS.

SHEET C-303  
SHEET C-302

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Rev	Issued For	Date
A	PRELIM PLAN SET	5/22/2023
B	INTERNAL COMMENTS	8/18/2023
C	INTERNAL COMMENTS	9/15/2023



**WILSON HILL SOLAR**

469 Wilson Hill Road  
Hoosick Falls, NY 12090

**EROSION, LAYOUT, AND MATERIALS PLAN**

NOT FOR CONSTRUCTION

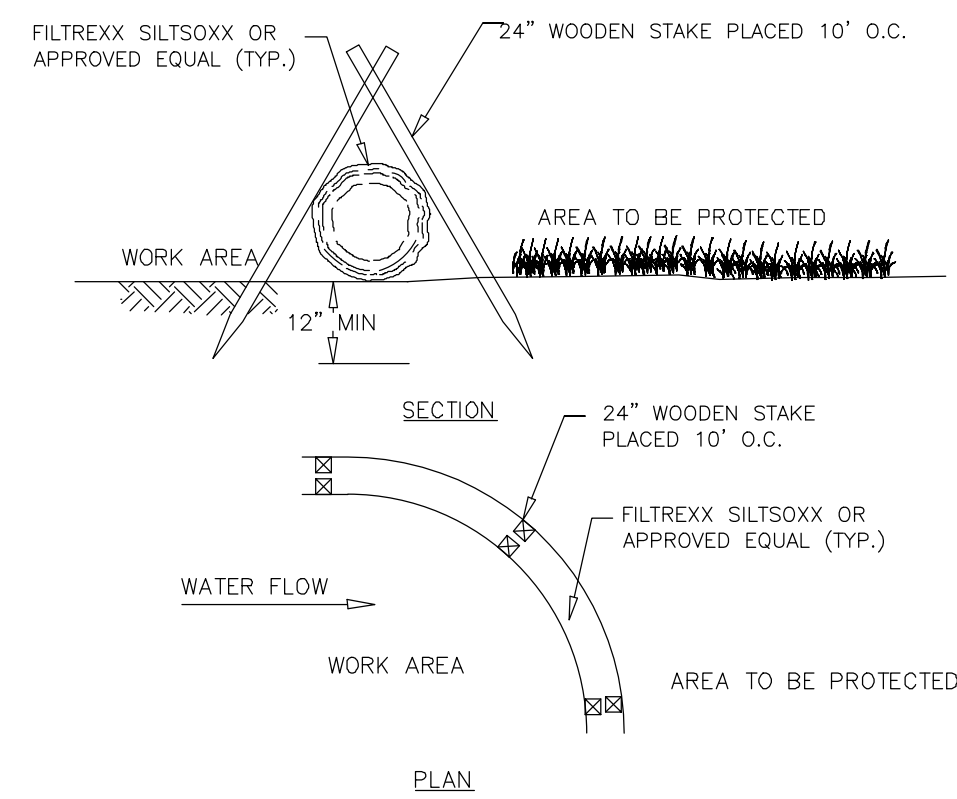
Scale: As Shown Approved by: STA

Drawn by: BMW

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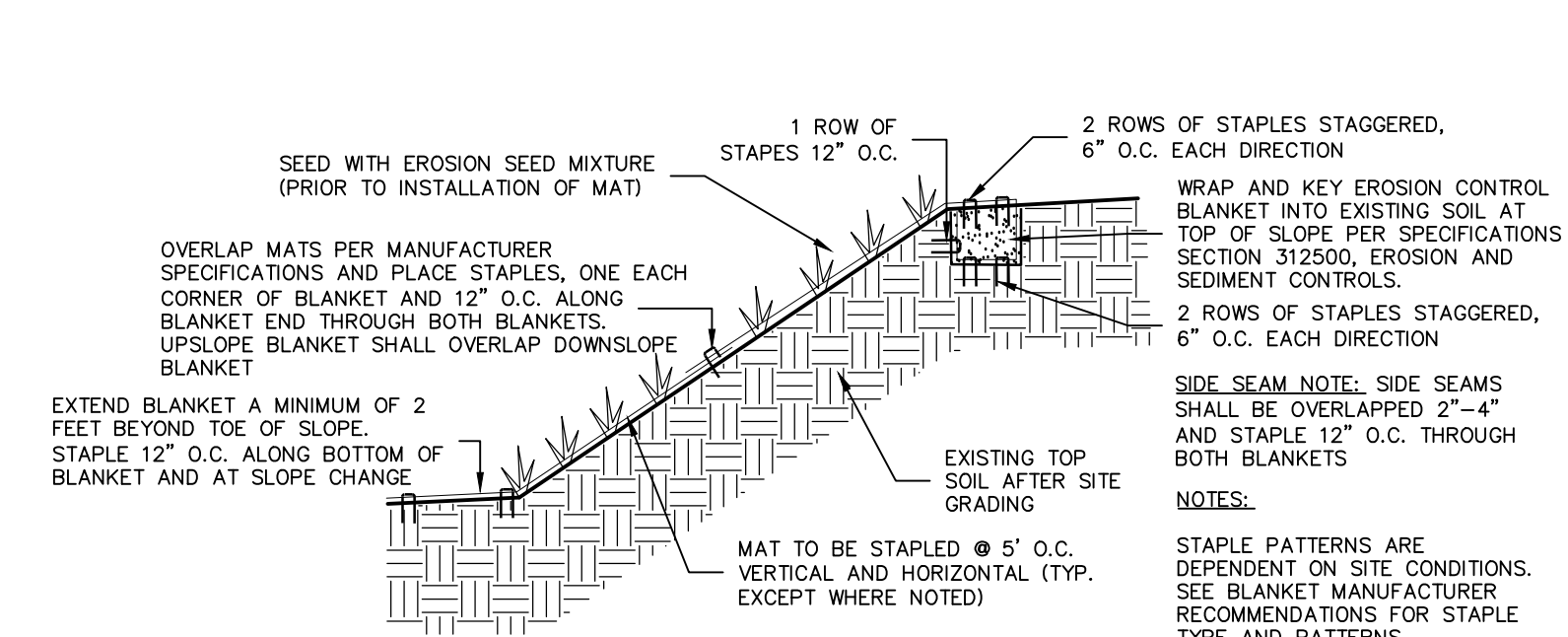
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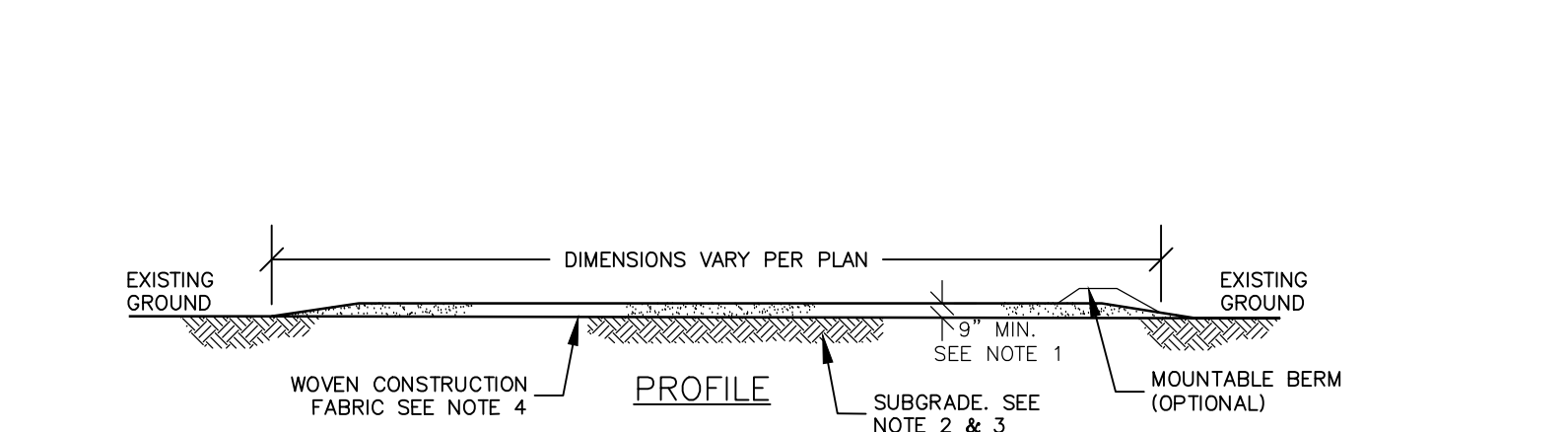
**12 IN. FILTER SOCK**

1. FILTER SOCK SHALL BE 12" DIAMETER MIN.  
2. SOCKS TO BE FILLED WITH BIODEGRADABLE COMPOST MATERIAL.  
3. WOODEN STAKES SHALL BE PLACED DOWNSLOPE OF THE FILTER SOCK.



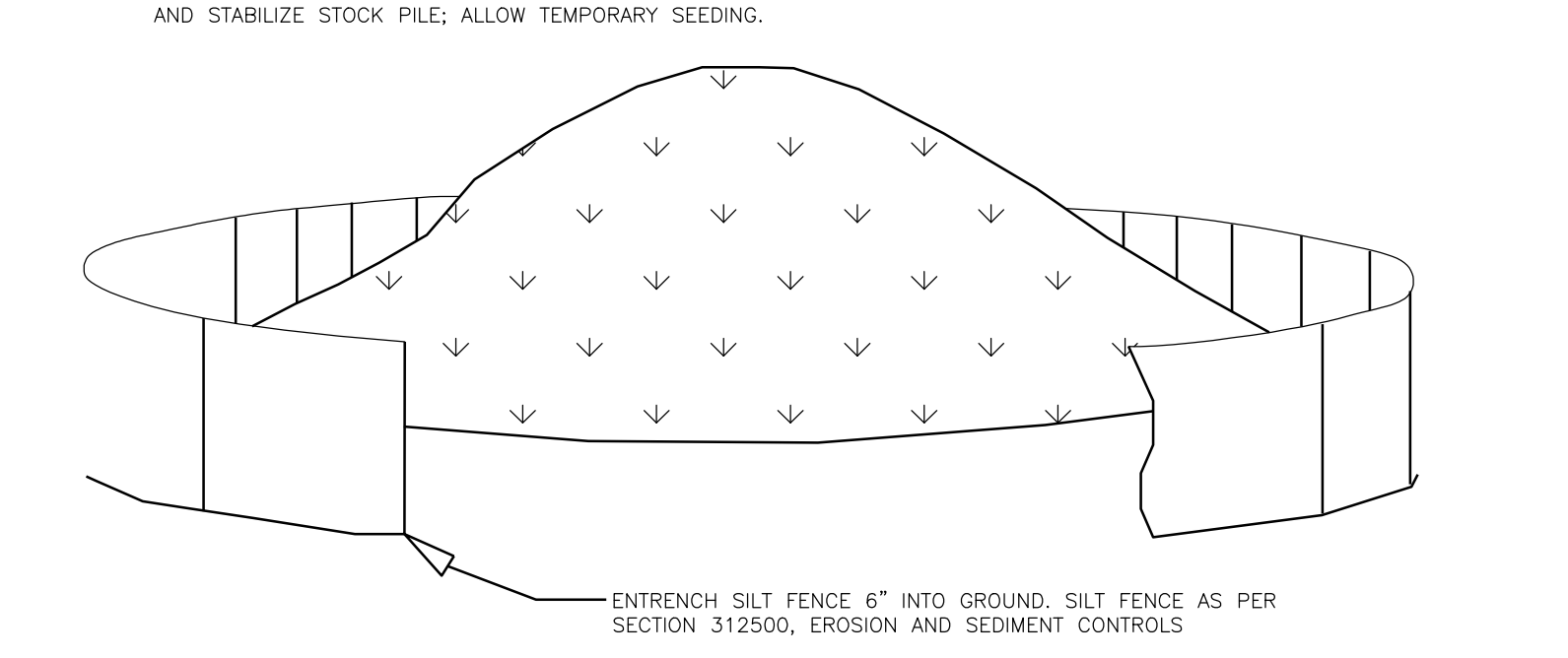
**EROSION CONTROL BLANKET**

1. CONSTRUCTION STAGING ARE TO BE 9" GRAVEL COURSE, WELL GRADED, WELL COMPACTED, TO CONFORM TO NYS DOT ITEM NO. 304.05 TYPE, MIN. COMPACTION 95% MODIFIED PROCTOR OR 9" CRUSHED STONE COURSE, WELL GRADED, WELL COMPACTED, TO CONFORM TO NYS DOT ITEM NO. 304.03 TYPE 2 MIN. COMPACTION 95% MODIFIED PROCTOR



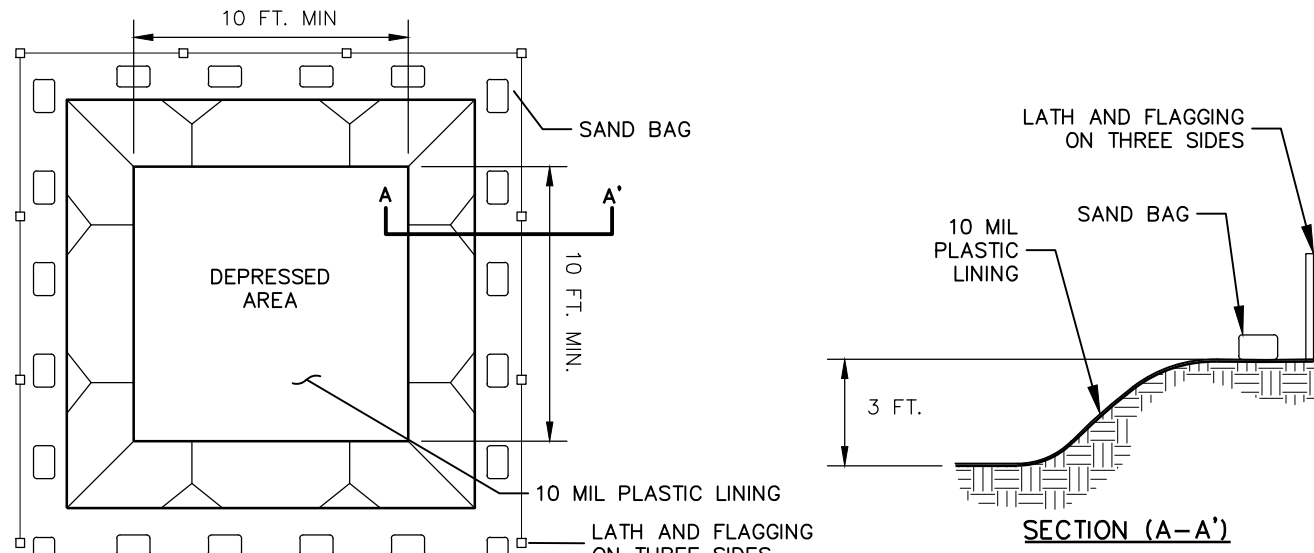
**TEMPORARY STAGING AREA**

1. CONSTRUCTION STAGING ARE TO BE 9" GRAVEL COURSE, WELL GRADED, WELL COMPACTED, TO CONFORM TO NYS DOT ITEM NO. 304.05 TYPE, MIN. COMPACTION 95% MODIFIED PROCTOR OR 9" CRUSHED STONE COURSE, WELL GRADED, WELL COMPACTED, TO CONFORM TO NYS DOT ITEM NO. 304.03 TYPE 2 MIN. COMPACTION 95% MODIFIED PROCTOR



**SOIL STOCKPILE AREA**

1. SOIL STOCKPILE SHALL BE STABILIZED WITH PERMANENT SEEDING AND MULCH. MULCH SHALL BE 3 INCHES THICK AND SHALL BE APPLIED TO THE ENTIRE SURFACE OF THE STOCKPILE. PERMANENT SEEDING SHALL BE APPLIED TO THE ENTIRE SURFACE OF THE STOCKPILE.

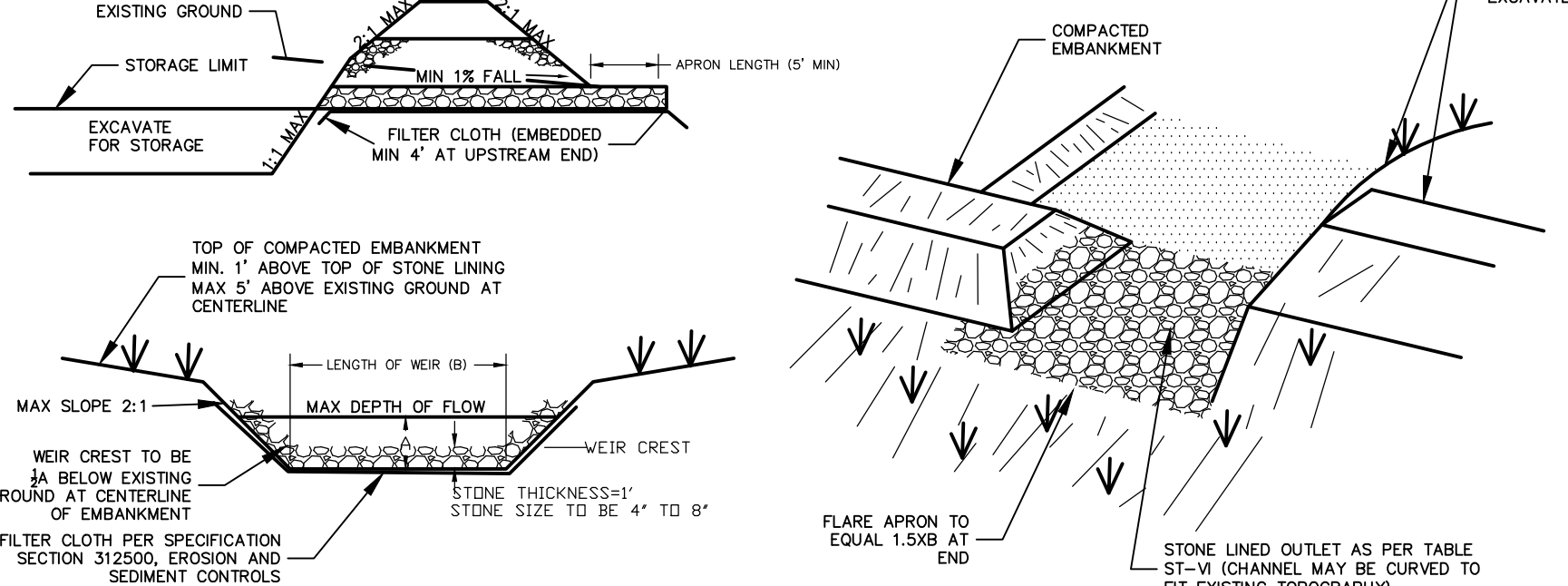


**CONCRETE WASHOUT FACILITY**

1. CONCRETE WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF FIFTY (50) FEET FROM SENSITIVE AREAS.
2. THE BASIN DIMENSIONS DEPicted ABOVE ARE REQUIRED MINIMUMS.
3. CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS (APPROXIMATELY 60 GALLONS OF WASTE AND WATER PER TRUCK).
4. PLASTIC LINING MATERIAL SHALL BE A MINIMUM 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
5. WASHOUT FACILITY MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.

**MAINTENANCE AND CLEANING**

1. DO NOT DISCHARGE LIQUID OR SLURRY TO WATERWAYS, STORM DRAINS OR DIRECTLY ONTO GROUND.
2. DO NOT USE SANITARY SEWER WITHOUT LOCAL APPROVAL.
3. PLACE A SECURE NON COLLAPSING, NON-WATER COLLECTING COVER OVER THE FACILITY PRIOR TO PREDICTED WET WEATHER TO PREVENT ACCUMULATION AND OVERFLOW.
4. REMOVE AND DISPOSE OF HARDEN CONCRETE AND RETURN THE STRUCTURE TO A FUNCTIONAL STATE.
5. INSPECT THE WASHOUT FACILITY FOR SIGNS OF WEAKENING OR DAMAGE AND REPAIR AS NECESSARY/RELINE THE STRUCTURE WITH NEW POLY SHEETING AFTER EACH CLEANING.



**CONSTRUCTION SPECIFICATIONS**

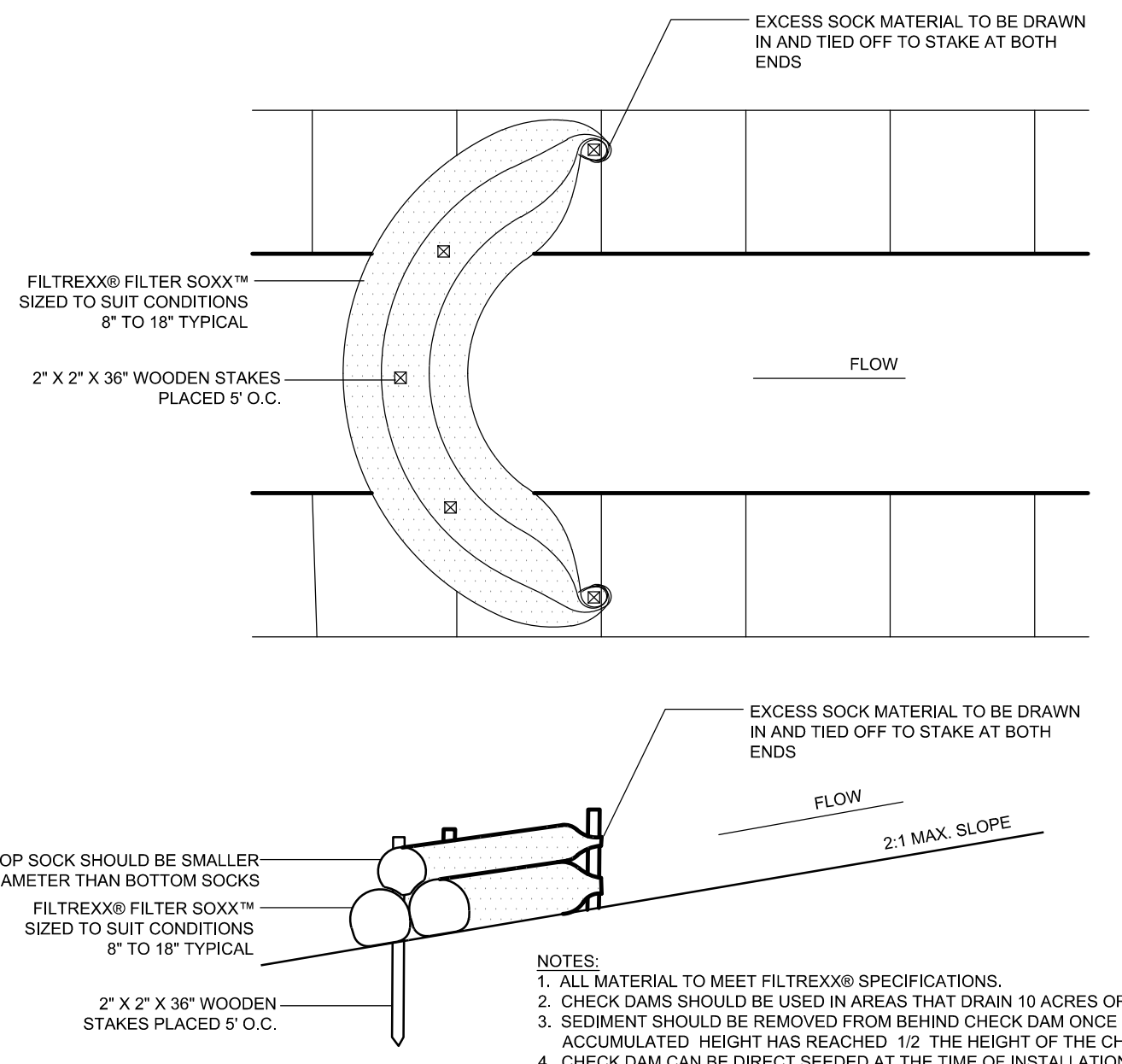
1. THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE FILL MATERIAL SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVELING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE 5 FEET, MEASURED AT CENTERLINE OF EMBANKMENT.
3. ALL FILL SLOPES SHALL BE 2:1 OR FLATTER; CUT SLOPES 1:1 OR FLATTER.
4. EXCAVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED THE HEIGHT OF THE EMBANKMENT.
5. STORAGE AREA PROVIDED SHALL BE FIGURED BY COMPUTING THE VOLUME AVAILABLE BEHIND THE OUTLET CHANNEL UP TO AN ELEVATION OF ONE (1) FOOT BELOW THE LEVEL WEIR CREST.
6. FILTER CLOTH SHALL BE PLACED AT THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO TO PLACEMENT IN STONE. SECTIONS OF FABRIC MUST OVERLAP AT LEAST 1 FOOT WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST 6 INCHES INTO EXISTING GROUND AT ENTRANCE OUTLET CHANNELS.
7. STONE USED IN THE OUTLET CHANNEL SHALL BE 4 TO 8 INCH RIP-RAP; TO PROVIDE A FILTERING EFFECT, A LAYER OF FILTER CLOTH SHALL BE EMBEDDED 1 FOOT WITH SECTION NEAREST ENTRANCE PLACED ON TOP; FABRIC SHALL BE EMBEDDED AT LEAST 6 INCHES INTO EXISTING GROUND AT ENTRANCE OUTLET CHANNEL.
8. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER IT WILL NOT ERODE.
9. THE STRUCTURE SHALL BE REPAIRED AFTER EACH RAIN AND REPAIRED AS NEEDED.
10. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER EROSION AND WATER POLLUTION ARE MINIMIZED.
11. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN DRAINAGE AREA HAS BEEN PROPERLY STABILIZED DRAINAGE FOR THIS AREA IS LIMITED TO 15 ACRES OR LESS.
12. IF LOCATED IN THE SAME LOCATION AS A PROPOSED INFILTRATION BASIN THE BOTTOM OF THE SEDIMENT SHALL BE A MINIMUM OF 1' ABOVE THE BOTTOM OF THE PROPOSED INFILTRATION BASIN.

**DESIGN CALCULATIONS SMA**  
SIZES SHOWN ON SITE PLAN  
MIN SIZE = 3,600 G/ACRE

CONTRIBUTING AREA (ACRES)	DEPTH OF CHANNEL (A) (FT)	LENGTH OF WEIR (B) (FT)
1	1.5	4.0
2	1.5	5.0
3	1.5	6.0
4	1.5	10.0
5	1.5	12.0
6	1.5	14.0
7	1.5	16.0
8	2.0	10.0
9	2.0	10.0
10	2.0	10.0

**STONE OUTLET SEDIMENT TRAP**

1. ALL MATERIAL TO MEET FILTERREX SPECIFICATIONS.  
2. CHECK DAMS SHOULD BE USED IN AREAS THAT DRAIN 10 ACRES OR LESS.  
3. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED 1/2 THE HEIGHT OF THE CHECK DAM.  
4. CHECK DAM CAN BE DIRECT SEED AT THE TIME OF INSTALLATION.  
5. CONTRACTOR IS REQUIRED TO BE A FILTERREX CERTIFIED INSTALLER.



**FILTER SOCK CHECK DAM**

1. STABILIZATION PRACTICES FOR THIS SITE INCLUDE:  
• LAND CLEARING ACTIVITIES SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND SHALL PROGRESS AS EARTHWORK IS NEEDED.  
• WATERING OF EXCAVATION AND FILL AREAS TO MINIMIZE WIND EROSION DURING CONSTRUCTION AS NEEDED.  
• USE OF STABILIZATION FABRIC FOR ALL SLOPES HAVING A SLOPE OF 1V:2H OR GREATER AND FILL SLOPES 1V:3H OR GREATER.  
• PERMANENT SEEDING AND PLANTING OF ALL UNPAVED AREAS USING THE HYDROMULCHING GRASS SEEDING TECHNIQUE.

**EROSION AND SEDIMENT CONTROL AND STABILIZATION MEASURES, MAINTENANCE AND INSPECTION PRACTICES:**

1. THE FOLLOWING IS A LIST OF EROSION AND SEDIMENT CONTROLS TO BE USED ON THIS SITE DURING CONSTRUCTION:
  - A. STABILIZATION PRACTICES FOR THIS SITE INCLUDE:  
• LAND CLEARING ACTIVITIES SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND SHALL PROGRESS AS EARTHWORK IS NEEDED.  
• WATERING OF EXCAVATION AND FILL AREAS TO MINIMIZE WIND EROSION DURING CONSTRUCTION AS NEEDED.  
• USE OF STABILIZATION FABRIC FOR ALL SLOPES HAVING A SLOPE OF 1V:2H OR GREATER AND FILL SLOPES 1V:3H OR GREATER.  
• PERMANENT SEEDING AND PLANTING OF ALL UNPAVED AREAS USING THE HYDROMULCHING GRASS SEEDING TECHNIQUE.
  - B. STRUCTURAL PRACTICES FOR THIS SITE INCLUDE:  
• PERIMETER PROTECTION USING COMPOST FILTER SOCKS  
• STABILIZED CONSTRUCTION EXIT POINTS  
• SEDIMENT TRAPS OR FILTER SOCKS  
• CHECK DAMS
2. THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS AND STABILIZATION MEASURES:
  - A. ALL CONTROL MEASURES WILL BE INSPECTED ONCE EVERY SEVEN (7) DAYS BY A QUALIFIED INSPECTOR AS DESCRIBED IN PART IV, SECTION C OF THE SPDES PERMIT FOR CONSTRUCTION ACTIVITY NO. GP-0-20-001. SITES THAT HAVE A WAIVER TO DISTURB GREATER THAN FIVE (5) ACRES REQUIRE (2) INSPECTIONS EVERY SEVEN (7) DAYS WITH AT LEAST TWO (2) DAYS BETWEEN INSPECTIONS.
  - B. DISTURBED AREAS SHALL BE STABILIZED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES HAVE CONCLUDED IN AN AREA. ALL BARE AREAS AND AREAS SUBJECT TO EROSION SHALL BE BLANKETTED OR SEEDED AND MULCHED WITHIN 30 DAYS WITH TEMPORARY EROSION CONTROL SEEDING.
  - C. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF REPAIRS ARE FOUND TO BE NECESSARY, THEY WILL BE INITIATED WITHIN 24 HOURS OF REPORT. BUILT UP SEDIMENT WILL BE REMOVED FROM FILTER SOCKS WHEN IT HAS REACHED ONE-HALF THE HEIGHT OF THE SOCK. AN ADDITIONAL FILTER SOCK MAY BE INSTALLED ON TOP OF THE ORIGINAL TO INCREASE SEDIMENT STORAGE CAPACITY/PREVENT SEDIMENT DISTURBANCE.
  - D. FILTER SOCKS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, DISLODGE, BREAKS, TEARS, ETC. DAMAGED OR DISLODGED FILTER SOCKS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
  - E. TEMPORARY AND PERMANENT SEEDING AND ALL OTHER STABILIZATION MEASURES WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
  - F. SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 50 PERCENT OF THE CAPACITY.
  - G. CHECK DAMS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, WASHOUT, ETC. BUILT UP SEDIMENT WILL BE REMOVED FROM THE CHECK DAM WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE CHECK DAM.
  - H. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPIES OF THE REPORT FORMS TO BE COMPLETED BY THE INSPECTOR ARE INCLUDED IN THIS SWPPP. UPON COMPLETION, COPIES OF THE REPORTS SHALL BE SUBMITTED TO THE TOWN.
  - I. THE JOB SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR SELECTING AND TRAINING THE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR THESE INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT INSPECTION AND MAINTENANCE REPORTS. ALL PERSONNEL PERFORMING INSPECTIONS MUST MEET THE REQUIREMENTS DESCRIBED IN PART IV, SECTION C OF THE SPDES PERMIT FOR CONSTRUCTION ACTIVITY NO. GP-0-20-001.
  - J. PERSONNEL SELECTED FOR THE INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE APPROPRIATE INSTRUCTION FROM THE JOB SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS THAT ARE USED ON SITE IN GOOD WORKING ORDER. THEY WILL ALSO BE TRAINED IN THE COMPLETION OF, INITIATION OF ACTIONS REQUIRED BY, AND THE FILING OF THE INSPECTION FORMS. DOCUMENTATION OF THIS PERSONNEL TRAINING WILL BE KEPT ON SITE WITH THE SWPPP. ALL PERSONNEL PERFORMING INSPECTIONS MUST MEET THE REQUIREMENTS DESCRIBED IN PART IV, SECTION C OF THE SPDES PERMIT FOR CONSTRUCTION ACTIVITY NO. GP-0-20-001.
  - K. NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF, NO RE-FUELING SHALL BE OCCUR WITHIN 100 FEET OF ANY WETLAND RESOURCE AREA AND 200 FEET FROM RIVERFRONT. LEAKING EQUIPMENT OR SUPPLIES SHALL IMMEDIATELY BE REPAIRED OR EMOVED FROM THE SITE.
  - L. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT DUST FROM FORMING.

**SOIL RESTORATION:**

- AS PER CHAPTER 5 OF THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL, SOIL RESTORATION IS REQUIRED ON THIS SITE IN NON-IMPERVIOUS AREAS ONCE FINAL SUBGRADE ELEVATION IS ACHIEVED. IN AREAS OF CUT OR FILL THE SOILS SHALL BE AERATED AND 6 INCHES OF TOPSOIL SHALL BE APPLIED. IN AREAS OF HEAVY CONSTRUCTION TRAFFIC (ESPECIALLY IN AREAS 5 TO 25 FEET FROM BUILDING, BUT NOT WITHIN 5 FEET OF FOUNDATION WALLS) THE FOLLOWING RESTORATION MUST BE APPLIED:
1. APPLY 3 INCHES OF COMPOST OVER SUBSOIL.
  2. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR-MOUNTED DISC, OR TILLER, MIXING, AND CIRCULATING AIR AND COMPOST INTO SOIL.
  3. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF 4 INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
  4. APPLY TOPSOIL TO A DEPTH OF 6 INCHES
  5. VEGETATE AS REQUIRED BY APPROVED PLAN.

**ADDITIONAL EROSION CONTROL AND GRADING NOTES:**

1. MINIMAL EROSION CONTROL DEVICES ARE ILLUSTRATED ON SITE PLAN IN A SCHEMATIC MANNER BASED ON NY STATE GUIDELINES FOR EROSION AND SEDIMENT CONTROL. IT WILL BE NECESSARY TO ADJUST THE ACTUAL LOCATION AND QUANTITY OF EROSION CONTROL DEVICES DEPENDING UPON FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THESE MEASURES AS REQUIRED TO PROTECT THE SITE.
2. SLOPES SHALL TYPICALLY BE GRADED AT A MAXIMUM OF 3:1 (3 HORIZ. 1 VERT.) WITHIN ALL CUT OR FILL AREAS, UNLESS OTHERWISE DESIGNATED ON PLANS.
3. TEMPORARY SEED SHALL BE A COMMERCIALY AVAILABLE MIXTURE OF PERENNIAL RYE AND UTILITY GRADE FESCUE. PERCENTAGE OF PERENNIAL RYE SHALL NOT EXCEED 50%. PERMANENT SEED SHALL BE AS SPECIFIED ON THE PLANTING PLANS.
4. SEEDED AREAS SHALL BE FULLY COVERED WITH A LEAN STRAW OR MULCH MATERIAL. IF ORDERED BY THE ENGINEER OR MUNICIPALITY, A BIODEGRADABLE NETTING (E.G., EXCELISOR BLANKET, CORO GEOTEXILE) SHALL BE ANCHORED OVER SEEDED AREAS WHICH DEMONSTRATE "RILLING" OR OTHER EROSION PROCESSES.
5. TOPSOIL AND SEED SHALL BE REAPPLIED TO ANY AREAS WHICH FAIL TO ESTABLISH AS A RESULT OF INITIAL APPLICATION.
6. FILTER SOCK BARRIERS SHALL BE PLACED WITHIN ALL AREAS OF EXPOSED SLOPES TO CONTROL SOIL EROSION DURING AND AFTER CONSTRUCTION.
7. EROSION CONTROL (ERO-MAT), GEOTEXTILE FABRIC, COMPOST BLANKET, RIPRAP, OR APPROVED EQUAL, SHALL BE INSTALLED ON ALL 6H:1V SLOPES; AN ORGANIC FIBER PROTECTIVE MAT, HALF INCH LAYER OF CHOPPED STRAW, KNITTED INTO A RUGGED MAT WITH A THIN NETTING OF PHOTODEGRADABLE POLYPROPYLENE. SECURE MAT TO SLOPE WITH 6" STEEL U-SHAPED STAPLES, 2 STAPLES PER SQUARE YARD, OR AS PER MANUFACTURER'S INSTRUCTIONS.
8. PRIOR TO SEEDING, ACCESS AISLES, TEMPORARY STAGING AREAS, STORAGE, AND PARKING AREAS TO BE DECOMPACTED AND RELOADED.
9. SEDIMENT BARRIERS SHALL BE CONSTRUCTED AROUND ALL SOIL STOCKPILE AREAS.
10. STREAM REACHES ON-SITE AND DOWNSTREAM OF CONSTRUCTION SHALL NOT HAVE SUBSTANTIAL VISIBLE CONTRAST RELATIVE TO COLOR, TASTE, ODOR, TURBIDITY AND SEDIMENT DEPOSITION FROM THE REACHES UPSTREAM OF THE CONSTRUCTION ACTIVITY.
11. VEHICULAR ACCESS POINTS SHALL BE MONITORED AND INSPECTED AT THE SAME FREQUENCY AS EROSION CONTROL FEATURES TO INSURE THAT DEPOSITS OF SAND, SILT OR OTHER MATERIAL IS NOT BEING DEPOSITED ON PUBLIC ROADWAYS. IN THE EVENT ANY SIGNIFICANT DEPOSITS OCCUR THEY SHALL BE CLEANED UP IMMEDIATELY.
12. A SPDES PERMIT SHALL BE IN PLACE PRIOR TO COMMENCING ANY GROUND DISTURBANCE.
13. PROJECT DRAINAGE FEATURES TO BE CLEANED OUT AFTER COMPLETION OF CONSTRUCTION.

**SEQUENCE OF CONSTRUCTION ACTIVITIES:**

1. SITE TO BE MOBILIZED.
2. EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED IN CONJUNCTION WITH ANY BRUSH OR TREE CLEARING REQUIRED. NOTE: EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH SHEETS C-300, C-301, C-302, C-303, AND C-304 ASSOCIATED DETAILS AS WELL AS NYS DEC CONSTRUCTION GENERAL PERMIT #GP-0-20-001. IN ANY INSTANCE THAT A CONFLICT BETWEEN THESE TWO GUIDELINES IS PRESENT, THE MORE CONSERVATIVE GUIDELINE TAKES PRECEDENCE.
3. CLEARING AND GRUBBING OPERATIONS CREW SHALL CHIP AND MULCH DIRECTLY BEHIND OPERATION TO MAKE SURE NO AREAS ABOVE FIVE ACRES SHALL BE DISTURBED AT ANY TIME. NO MORE THAN FIVE ACRES SHALL BE DISTURBED AT ANY ONE TIME WITHOUT PRIOR APPROVAL FROM NYSDEC.
4. INSTALLATION OF ACCESS ROAD TO COMMENCE. NOTE: ANY AREAS OF DISTURBANCE SHALL BE STABILIZED WITH TEMPORARY SEEDING PER THE REQUIRED TIMELINES AS PER NYS DEC CONSTRUCTION GENERAL PERMIT #GP-0-20-001.
5. MV TRENCHES AND FOUNDATIONS INSTALLATION IN CONJUNCTION WITH THE PLACEMENT OF CONCRETE FOUNDATIONS FOR THE ELECTRICAL EQUIPMENT PADS TO COMMENCE.
6. WATERING OF THE EXCAVATION AND FILL AREAS SHALL BE DONE TO MINIMIZE WIND EROSION AS NEEDED THROUGHOUT CONSTRUCTION.
7. RACKING, TABLES, MODULES, INVERTERS AND ELECTRICAL EQUIPMENT INSTALLATION TO COMMENCE.
8. REMOVE LAYDOWN AREA, SPREAD GRAVEL ON ROADWAY, AND SEED AREAS.
9. FINAL SITE STABILIZATION TO COMMENCE.
10. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE REMOVED ONCE 80% VEGETATIVE COVER HAS BEEN ACHIEVED. REMOVE FILTER SOCKS, STABILIZED CONSTRUCTION ENTRANCES, AND OTHER TEMPORARY EROSION AND SEDIMENT CONTROLS. ANY RESULTING AREAS OF DISTURBANCE FROM SAID REMOVAL TO BE SEEDED PRIOR TO DEMOBILIZATION.
11. SITE TO BE DEMOBILIZED.

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Rev	Issued For	Date
A	PRELIM. PLAN SET	5/22/2023
B	INTERNAL COMMENTS	8/10/2023
C	INTERNAL COMMENTS	9/15/2023

STATE OF NEW YORK  
REGISTERED PROFESSIONAL ENGINEER  
No. 100847  
P.E. Sean Consultant


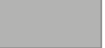
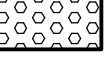
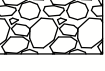

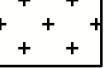
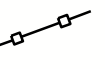
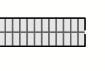
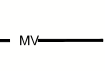





**WILSON HILL SOLAR**  
469 Wilson Hill Road  
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EROSION, LAYOUT AND MATERIALS DETAILS  
NOT FOR CONSTRUCTION  
Scale: As Shown Approved by: STA  
Drawing Title: Drawn by: BMW

Dwg No: Size: D Sheet Rev: 1  
**C-304 C**

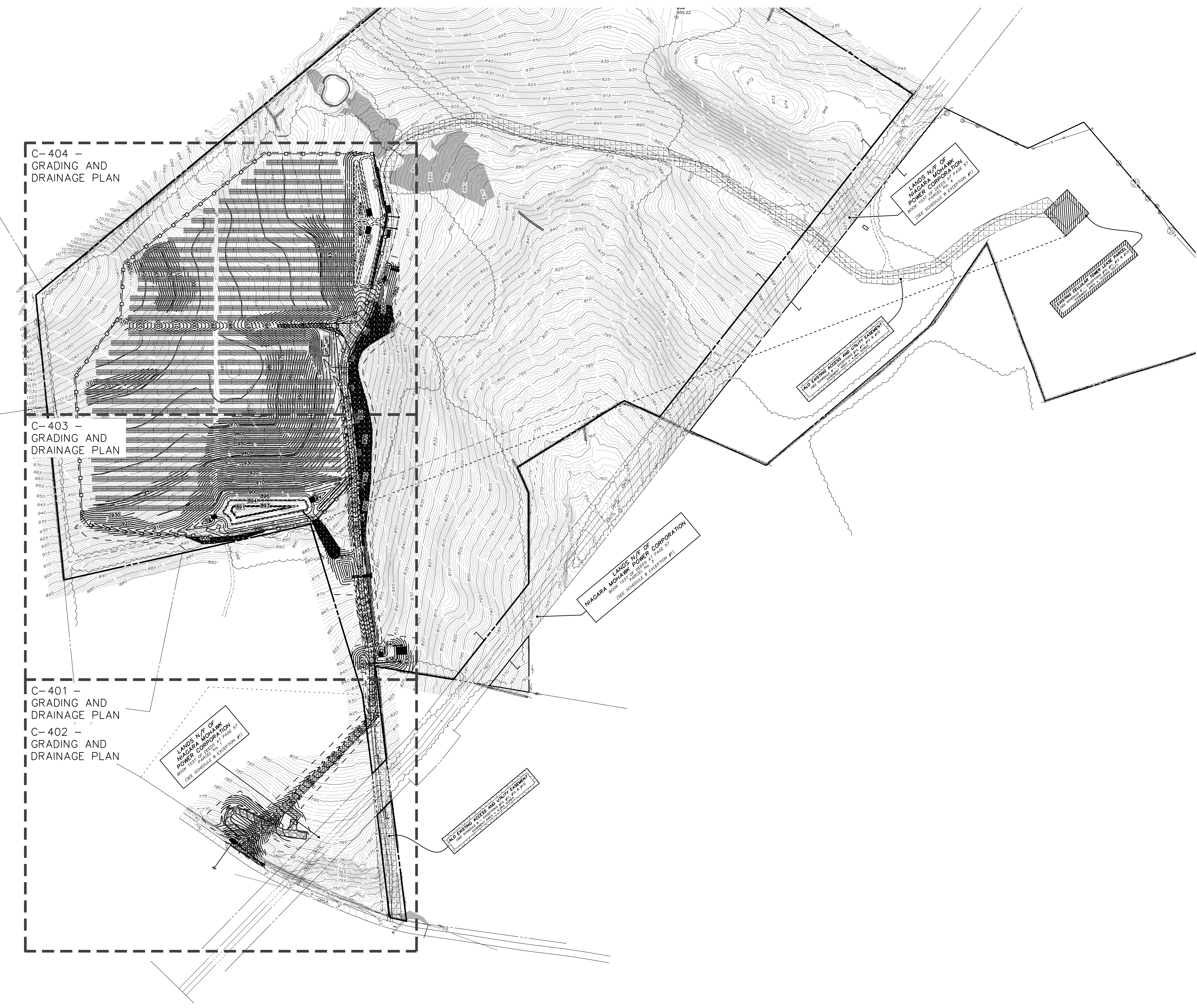
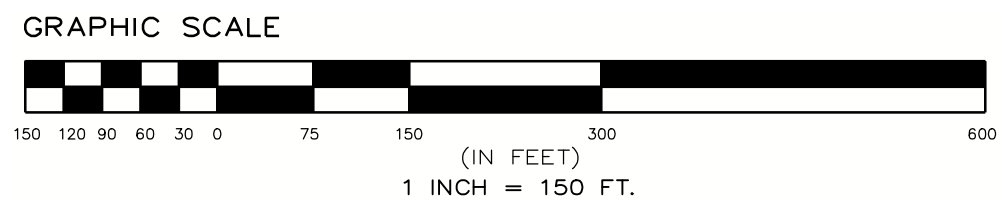
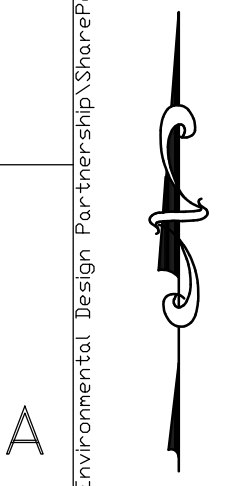


**DRAINAGE AND GRADING PLAN LEGEND**

-  DENOTES EXISTING GRADE
-  DENOTES USAGE WETLAND AREAS
-  DENOTES EMERGENCY OVERFLOW WEIR 4  
C-501
-  PERVIOUS UTILITY ACCESS ROAD 5  
C-502
-  DENOTES TEMPORARY IMPERVIOUS CONSTRUCTION ROAD 2  
C-500
-  DENOTES IMPERVIOUS MAINTENANCE ACCESS ROAD 4  
C-502
-  DENOTES FIXED KNOT FARM FENCE 3  
C-500
-  DENOTES SOLAR PANEL TRACKER (SEE ELECTRICAL PLANS FOR DETAILS)
-  DENOTES MEDIUM VOLTAGE TRENCH (SEE ELECTRICAL PLANS FOR DETAILS) 5  
C-501
-  DENOTES PROPOSED CONTOUR
-  DENOTES PERMANENT OVERLAND FLOW DISPERSION DEVICE 1  
C-304
-  DENOTES PROPOSED 12" COMPOST FILTER SOCK 1  
C-304
-  STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN 2  
C-501
-  CONTROL POINT (PENDING)

H  
G  
F  
E  
D  
C  
B  
A

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C-404 - GRADING AND DRAINAGE PLAN

C-403 - GRADING AND DRAINAGE PLAN

C-401 - GRADING AND DRAINAGE PLAN  
C-402 - GRADING AND DRAINAGE PLAN

LANDS N/E OF NIAGARA POWER CORPORATION  
BOOK 103 PAGE 11 PAR. 37  
(SEE SCHEDULE B EXCEPTION #7)

NIAGARA  
LANDS N/E OF NIAGARA POWER CORPORATION  
BOOK 103 PAGE 11 PAR. 37  
(SEE SCHEDULE B EXCEPTION #7)

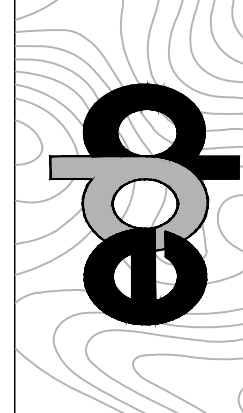
NO EXISTING ROADS AND UTILITY EXISTENT  
FOR THE PROPOSED OVERLAND FLOW DISPERSION DEVICE

LANDS N/E OF NIAGARA POWER CORPORATION  
BOOK 103 PAGE 11 PAR. 37  
(SEE SCHEDULE B EXCEPTION #7)

NO EXISTING ROADS AND UTILITY EXISTENT  
FOR THE PROPOSED OVERLAND FLOW DISPERSION DEVICE

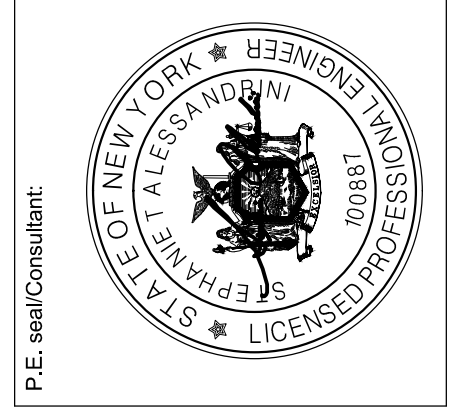


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B	INTERNAL COMMENTS	8/15/2023
C	INTERNAL COMMENTS	9/15/2023



Project:

**WILSON HILL SOLAR**

469 Wilson Hill Road  
Hoosick Falls, NY 12090

Drawing Title:

**OVERALL GRADING AND DRAINAGE PLAN**

NOT FOR CONSTRUCTION

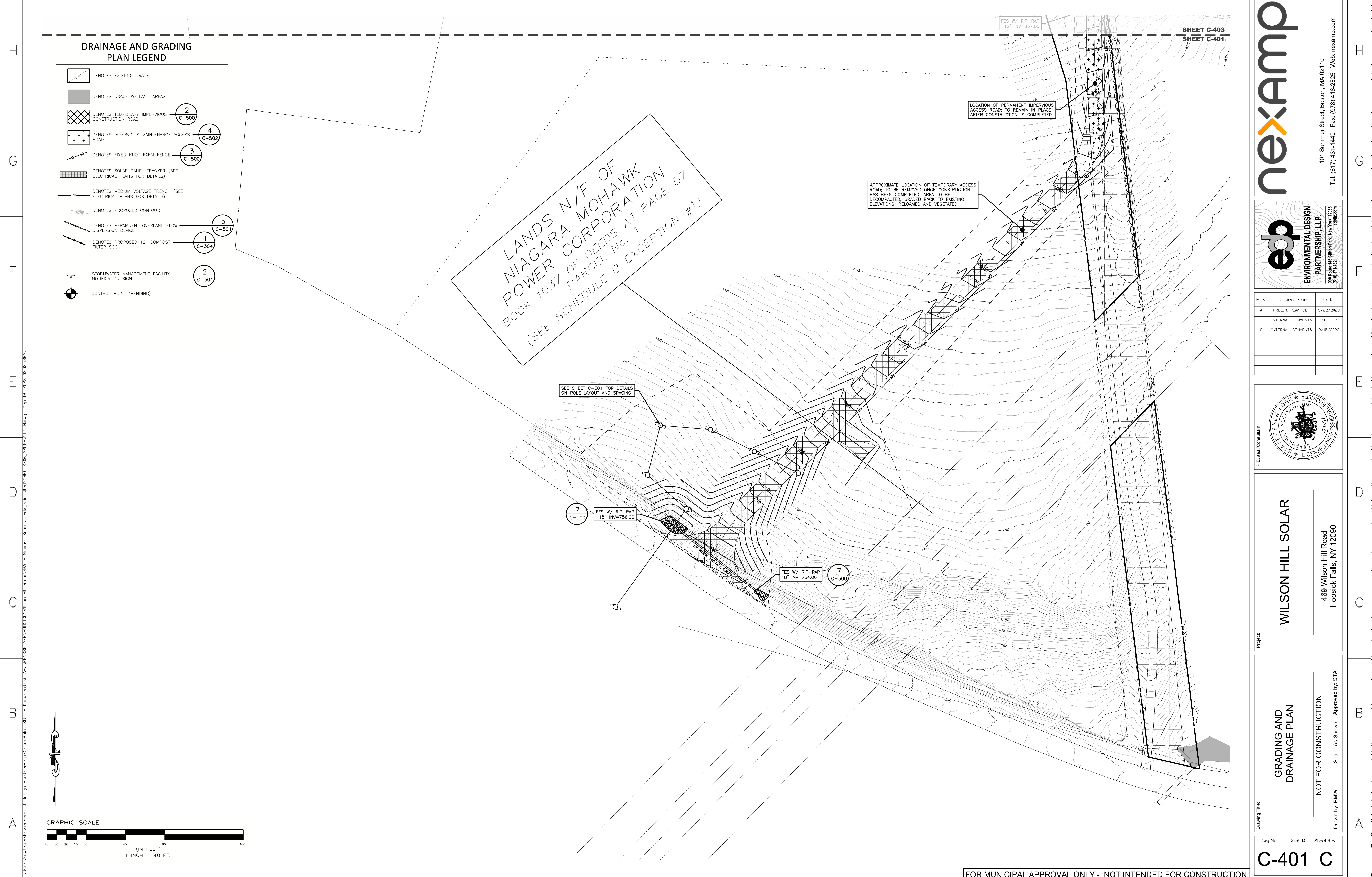
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Drawn by: BMW

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

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### DRAINAGE AND GRADING PLAN LEGEND

- DENOTES EXISTING GRADE
- DENOTES USACE WETLAND AREAS
- DENOTES TEMPORARY IMPERVIOUS CONSTRUCTION ROAD
- DENOTES IMPERVIOUS MAINTENANCE ACCESS ROAD
- DENOTES FIXED KNOT FARM FENCE
- DENOTES SOLAR PANEL TRACKER (SEE ELECTRICAL PLANS FOR DETAILS)
- DENOTES MEDIUM VOLTAGE TRENCH (SEE ELECTRICAL PLANS FOR DETAILS)
- DENOTES PROPOSED CONTOUR
- DENOTES PERMANENT OVERLAND FLOW DISPERSION DEVICE
- DENOTES PROPOSED 12" COMPOST FILTER SOCK
- STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN
- CONTROL POINT (PENDING)

2  
C-500

4  
C-502

3  
C-500

5  
C-501

1  
C-304

2  
C-501

LANDS N/F OF  
NIAGARA MOHAWK  
POWER CORPORATION  
BOOK 1037 OF DEEDS AT PAGE 57  
PARCEL No. 1  
(SEE SCHEDULE B EXCEPTION #1)

SEE SHEET C-301 FOR DETAILS ON POLE LAYOUT AND SPACING

7  
C-500  
FES W/ RIP-RAP  
18" INV=756.00

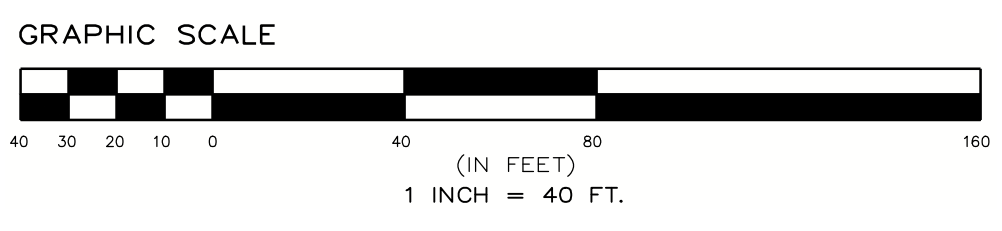
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C-500  
FES W/ RIP-RAP  
18" INV=754.00

FES W/ RIP-RAP  
12" INV=837.00

SHEET C-403  
SHEET C-401

LOCATION OF PERMANENT IMPERVIOUS ACCESS ROAD; TO REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETED

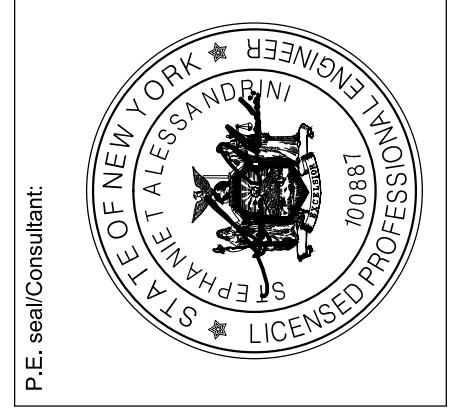
APPROXIMATE LOCATION OF TEMPORARY ACCESS ROAD; TO BE REMOVED ONCE CONSTRUCTION HAS BEEN COMPLETED. AREA TO BE DECOMPACTED, GRADED BACK TO EXISTING ELEVATIONS, RELOADED AND VEGETATED.



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**GRADING AND DRAINAGE PLAN**  
NOT FOR CONSTRUCTION  
Scale: As Shown Approved by: STA  
Drawn by: BMW

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


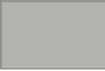
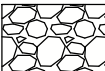
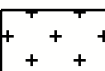
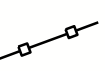

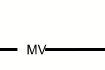





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8 7 6 5 4 3 2 1

H G F E D C B A

### DRAINAGE AND GRADING PLAN LEGEND

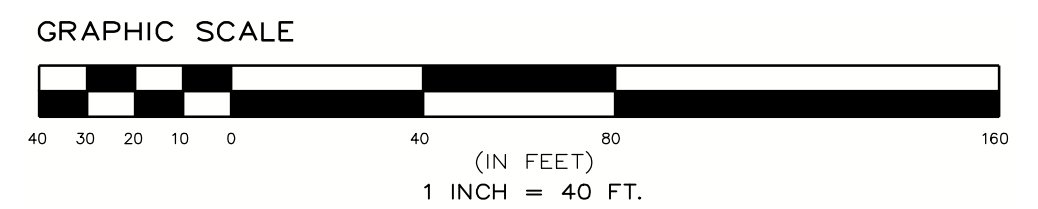
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-  DENOTES USACE WETLAND AREAS
-  PERVIOUS UTILITY ACCESS ROAD
-  DENOTES IMPERVIOUS MAINTENANCE ACCESS ROAD
-  DENOTES FIXED KNOT FARM FENCE
-  DENOTES SOLAR PANEL TRACKER (SEE ELECTRICAL PLANS FOR DETAILS)
-  DENOTES MEDIUM VOLTAGE TRENCH (SEE ELECTRICAL PLANS FOR DETAILS)
-  DENOTES PROPOSED CONTOUR
-  DENOTES PERMANENT OVERLAND FLOW DISPERSION DEVICE
-  DENOTES PROPOSED 12" COMPOST FILTER SOCK
-  STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN
-  CONTROL POINT (PENDING)

LANDS N/F OF  
 NIAGARA MOHAWK  
 POWER CORPORATION  
 BOOK 1037 OF DEEDS AT PAGE 57  
 PARCEL No. 1  
 (SEE SCHEDULE B EXCEPTION #1)

SEE SHEET C-301 FOR DETAILS ON POLE LAYOUT AND SPACING

LOCATION OF PERMANENT PERVIOUS UTILITY ACCESS ROAD; TO BE CONSTRUCTED AFTER SOLAR ARRAY HAS BEEN COMPLETED

LOCATION OF PERMANENT IMPERVIOUS ACCESS ROAD; TO REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETED

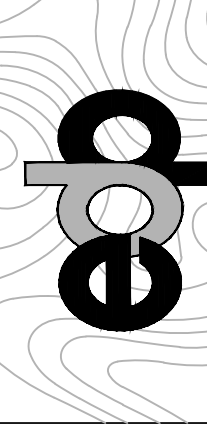


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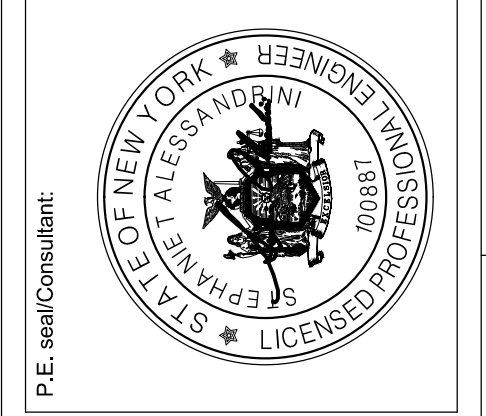


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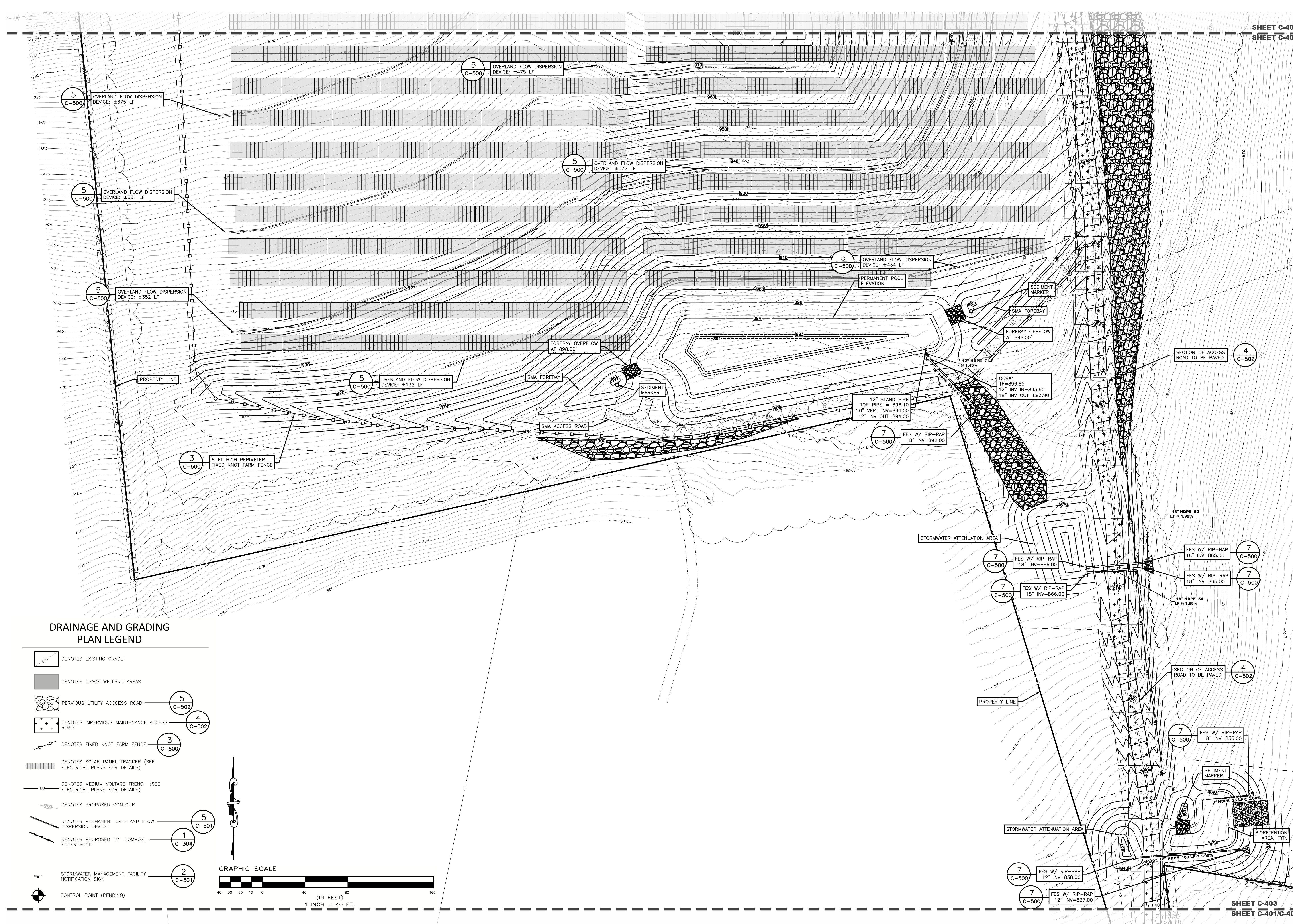


Wilson Hill Solar  
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GRADING AND DRAINAGE PLAN  
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Scale: As Shown Approved by: STA  
Drawn by: BMW

Dwg No: C-402  
Size: D  
Sheet Rev: C

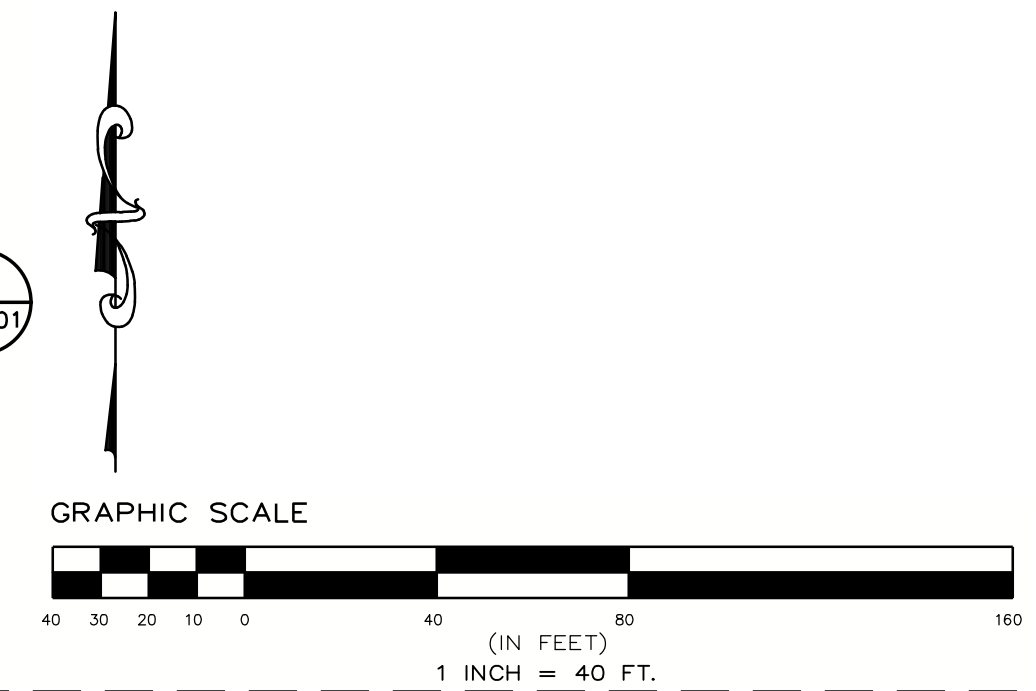
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SHEET C-404  
SHEET C-403

### DRAINAGE AND GRADING PLAN LEGEND

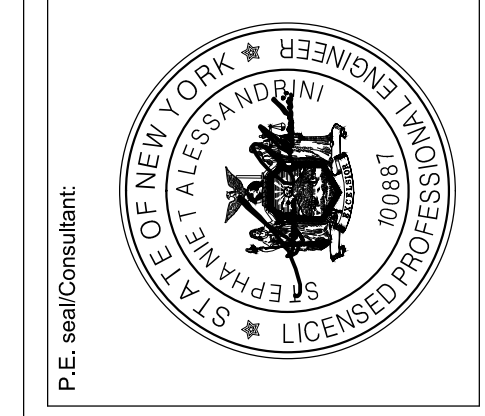
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- DENOTES USACE WETLAND AREAS
- PERVIOUS UTILITY ACCESS ROAD (C-502)
- DENOTES IMPERVIOUS MAINTENANCE ACCESS ROAD (C-502)
- DENOTES FIXED KNOT FARM FENCE (C-500)
- DENOTES SOLAR PANEL TRACKER (SEE ELECTRICAL PLANS FOR DETAILS)
- DENOTES MEDIUM VOLTAGE TRENCH (SEE ELECTRICAL PLANS FOR DETAILS)
- DENOTES PROPOSED CONTOUR
- DENOTES PERMANENT OVERLAND FLOW DISPERSION DEVICE (C-501)
- DENOTES PROPOSED 12" COMPOST FILTER SOCK (C-304)
- STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN (C-501)
- CONTROL POINT (PENDING)



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**GRADING AND DRAINAGE PLAN**  
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 Drawn by: BMW Scale: As Shown Approved by: STA

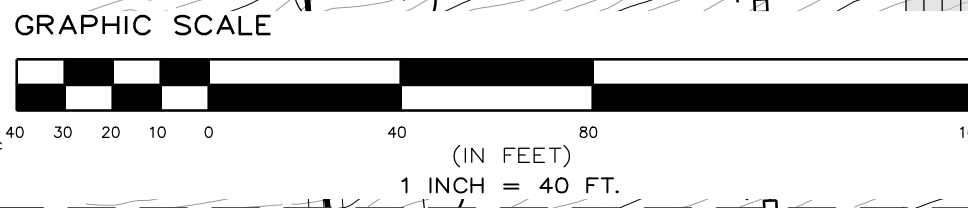
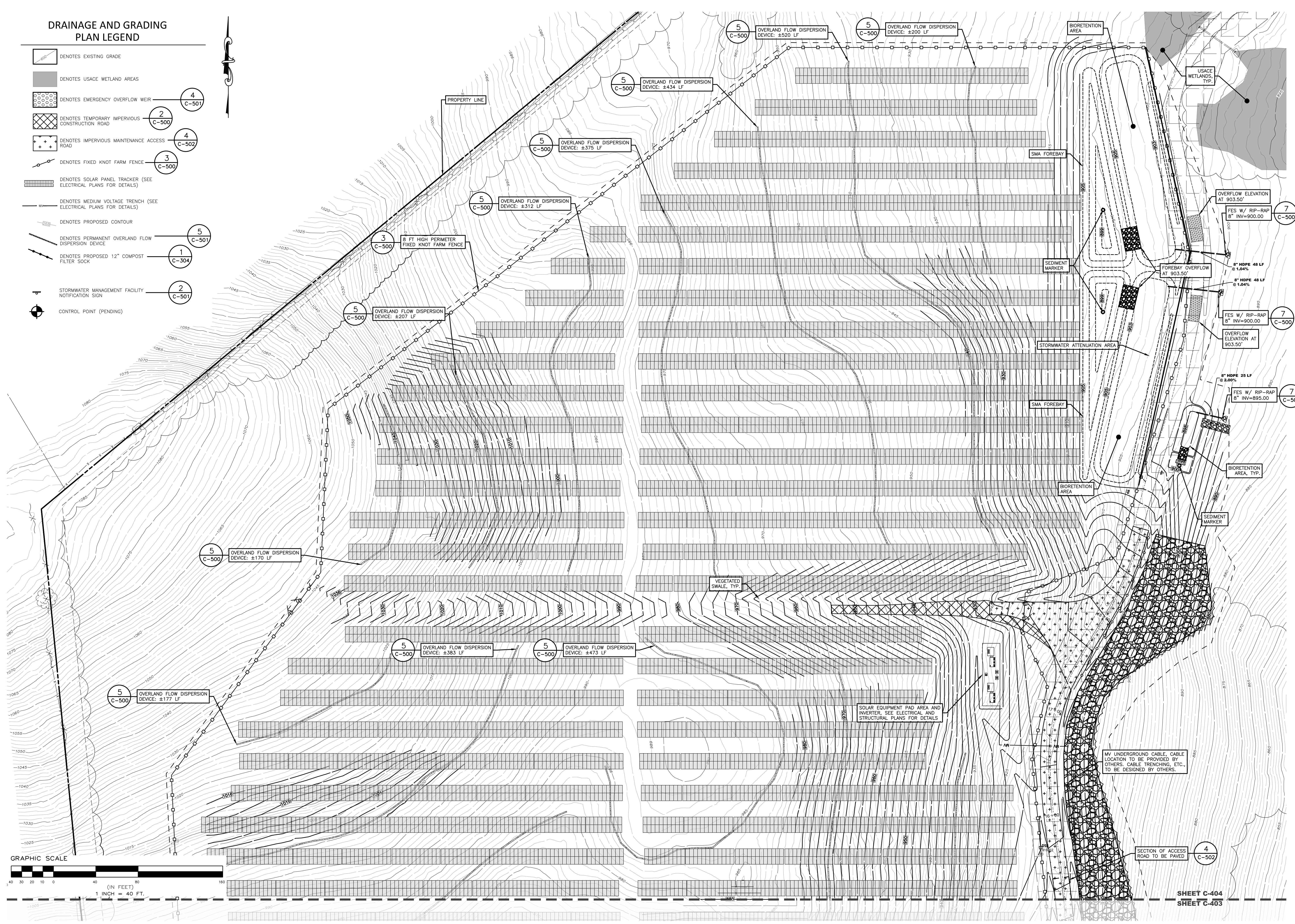
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**DRAINAGE AND GRADING PLAN LEGEND**

- DENOTES EXISTING GRADE
- DENOTES USACE WETLAND AREAS
- DENOTES EMERGENCY OVERFLOW WEIR
- DENOTES TEMPORARY IMPERVIOUS CONSTRUCTION ROAD
- DENOTES IMPERVIOUS MAINTENANCE ACCESS ROAD
- DENOTES FIXED KNOT FARM FENCE
- DENOTES SOLAR PANEL TRACKER (SEE ELECTRICAL PLANS FOR DETAILS)
- DENOTES MEDIUM VOLTAGE TRENCH (SEE ELECTRICAL PLANS FOR DETAILS)
- DENOTES PROPOSED CONTOUR
- DENOTES PERMANENT OVERLAND FLOW DISPERSION DEVICE
- DENOTES PROPOSED 12" COMPOST FILTER SOCK
- STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN
- CONTROL POINT (PENDING)



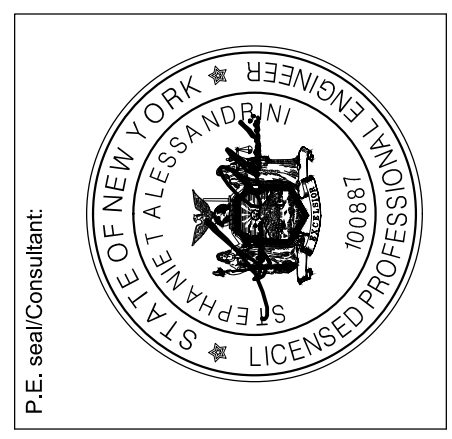
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**GRADING AND DRAINAGE PLAN**

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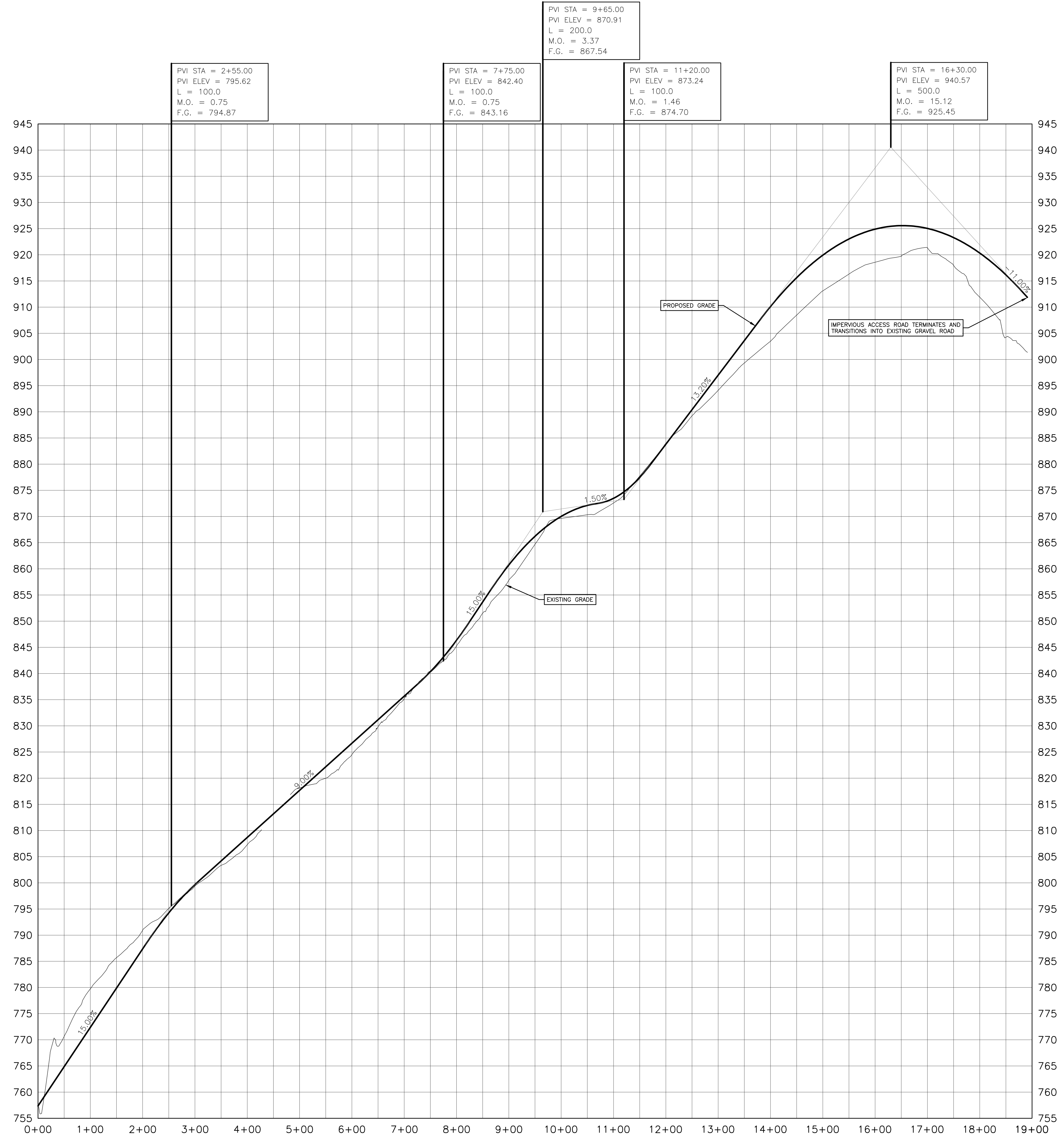
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Dwg No: **C-404** Size: D Sheet Rev: **C**

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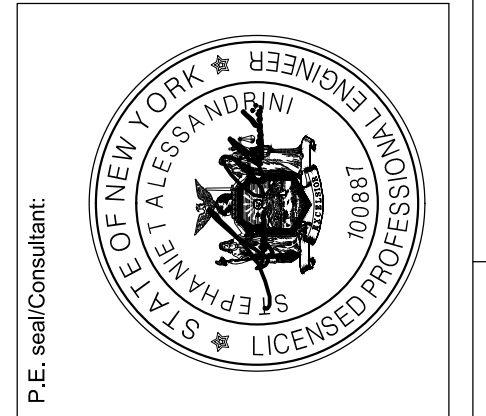
**TEMPORARY CONSTRUCTION ACCESS ROAD PROFILE**  
 SCALE: HORIZONTAL 1"=100' VERTICAL 1"=20'

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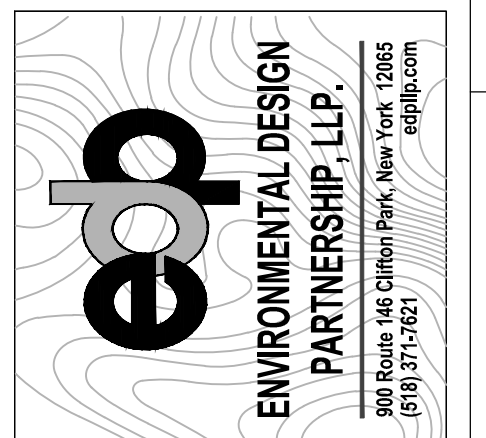
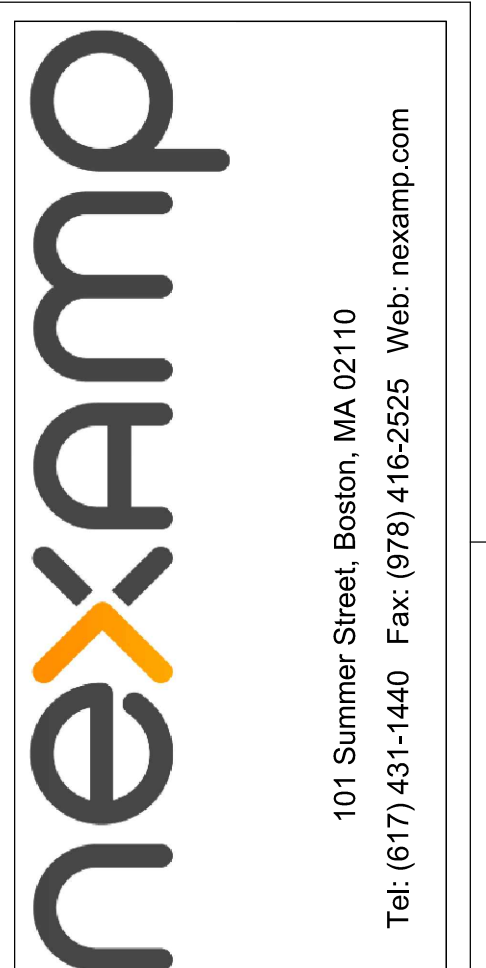
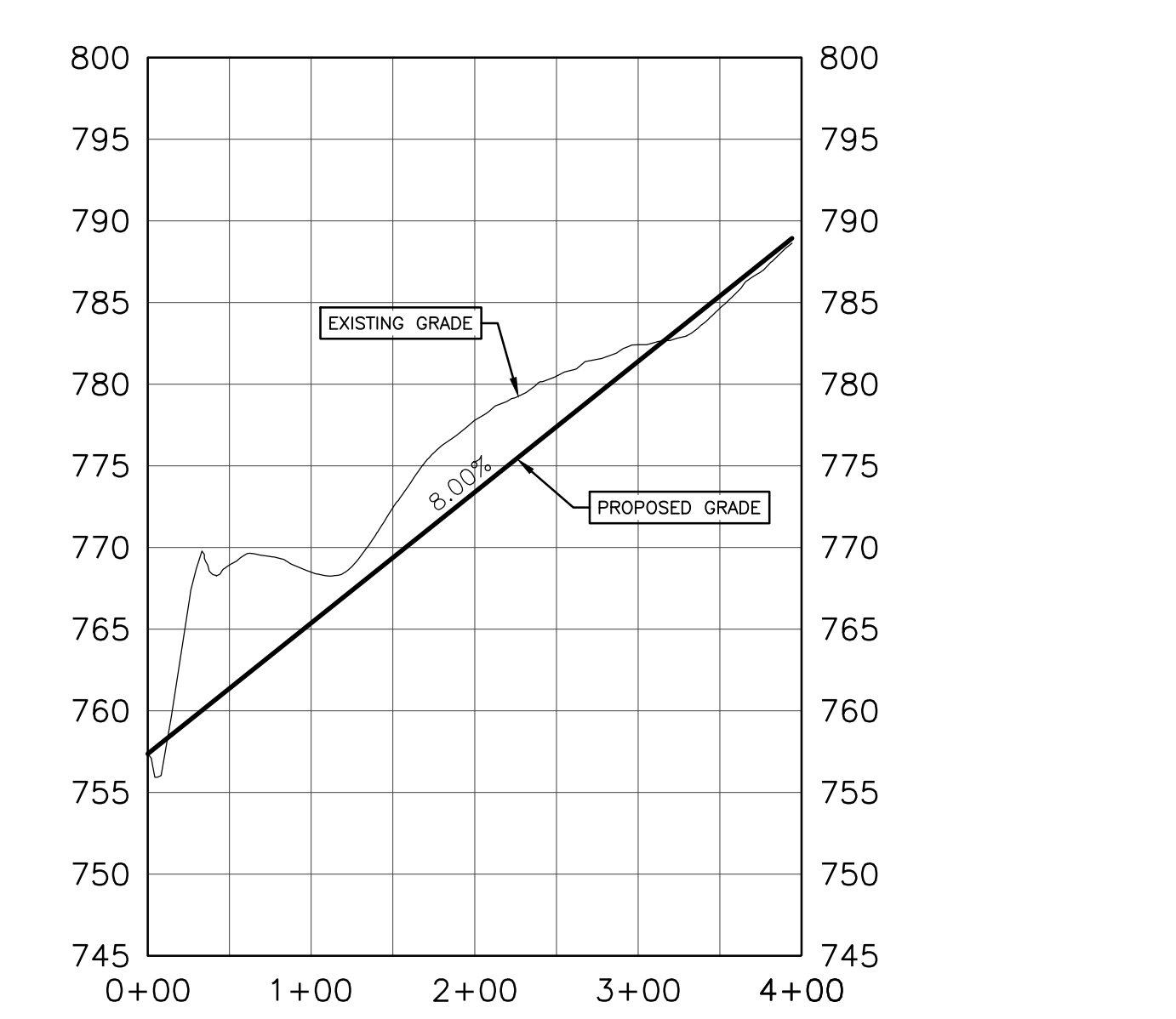
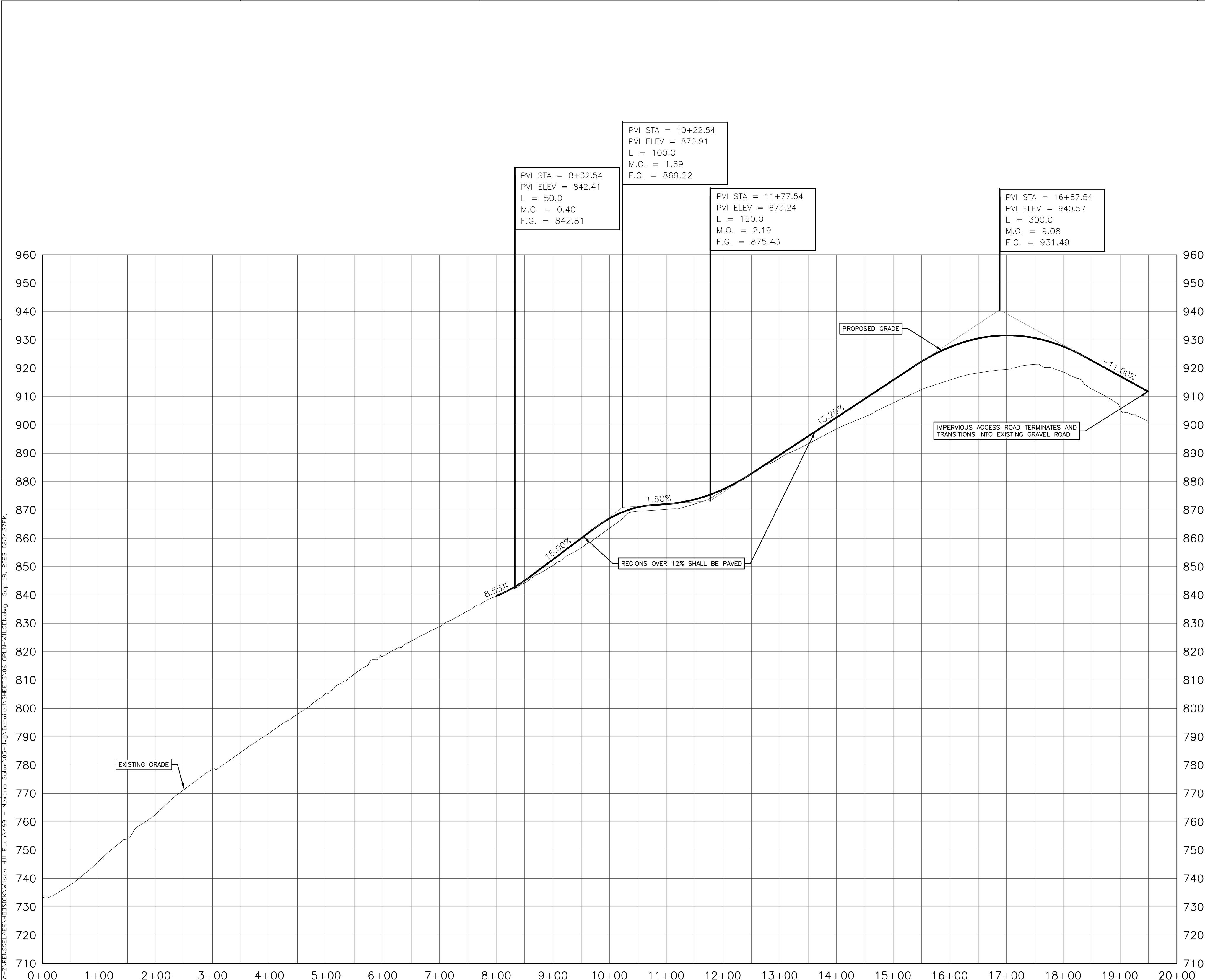


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**CONSTRUCTION ROAD PROFILE**  
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Dwg No: **C-405** Size: D Sheet Rev: **C**

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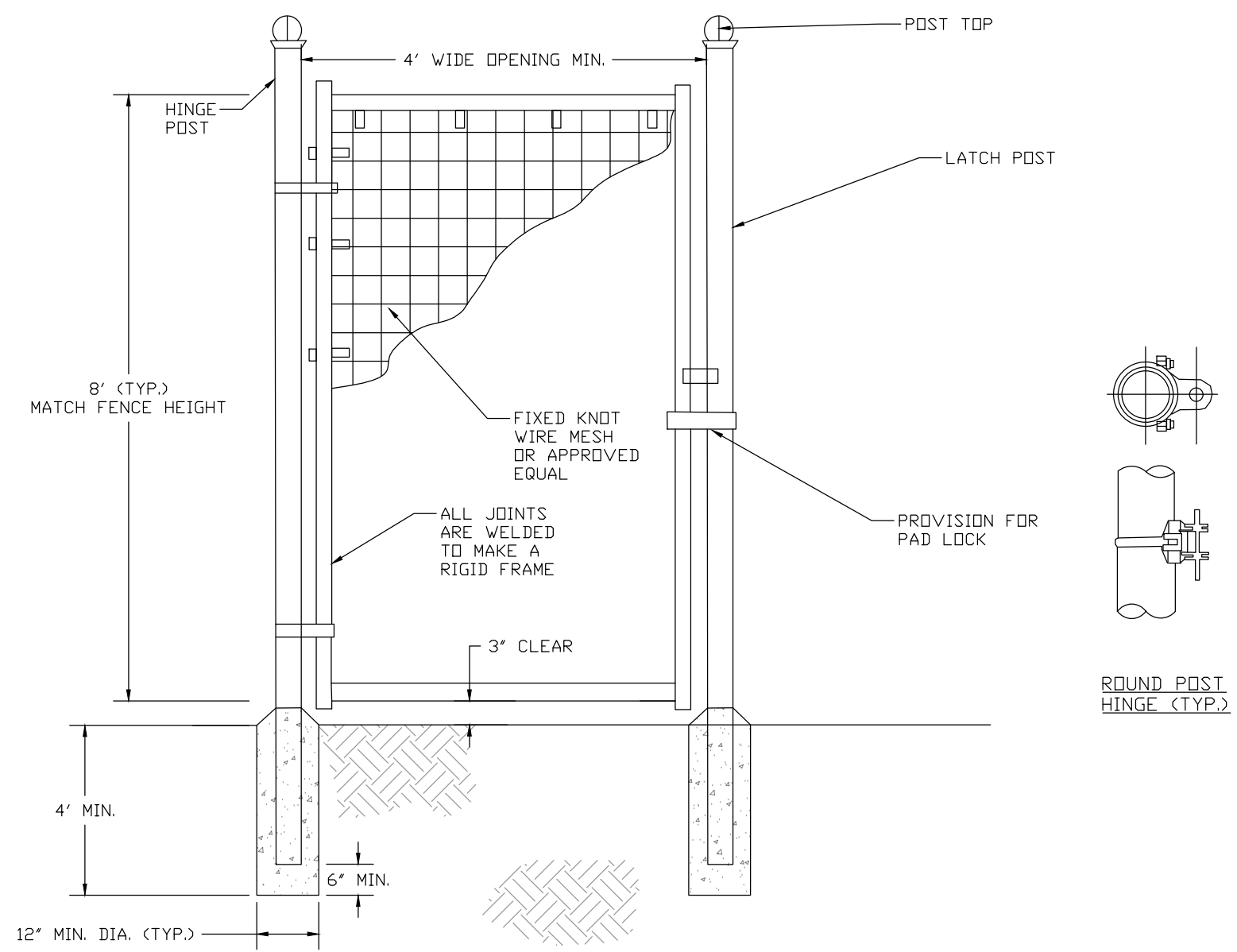


**WILSON HILL SOLAR**  
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**ACCESS ROAD PROFILES**  
 NOT FOR CONSTRUCTION  
 Drawn by: BMW Scale: As Shown Approved by: STA

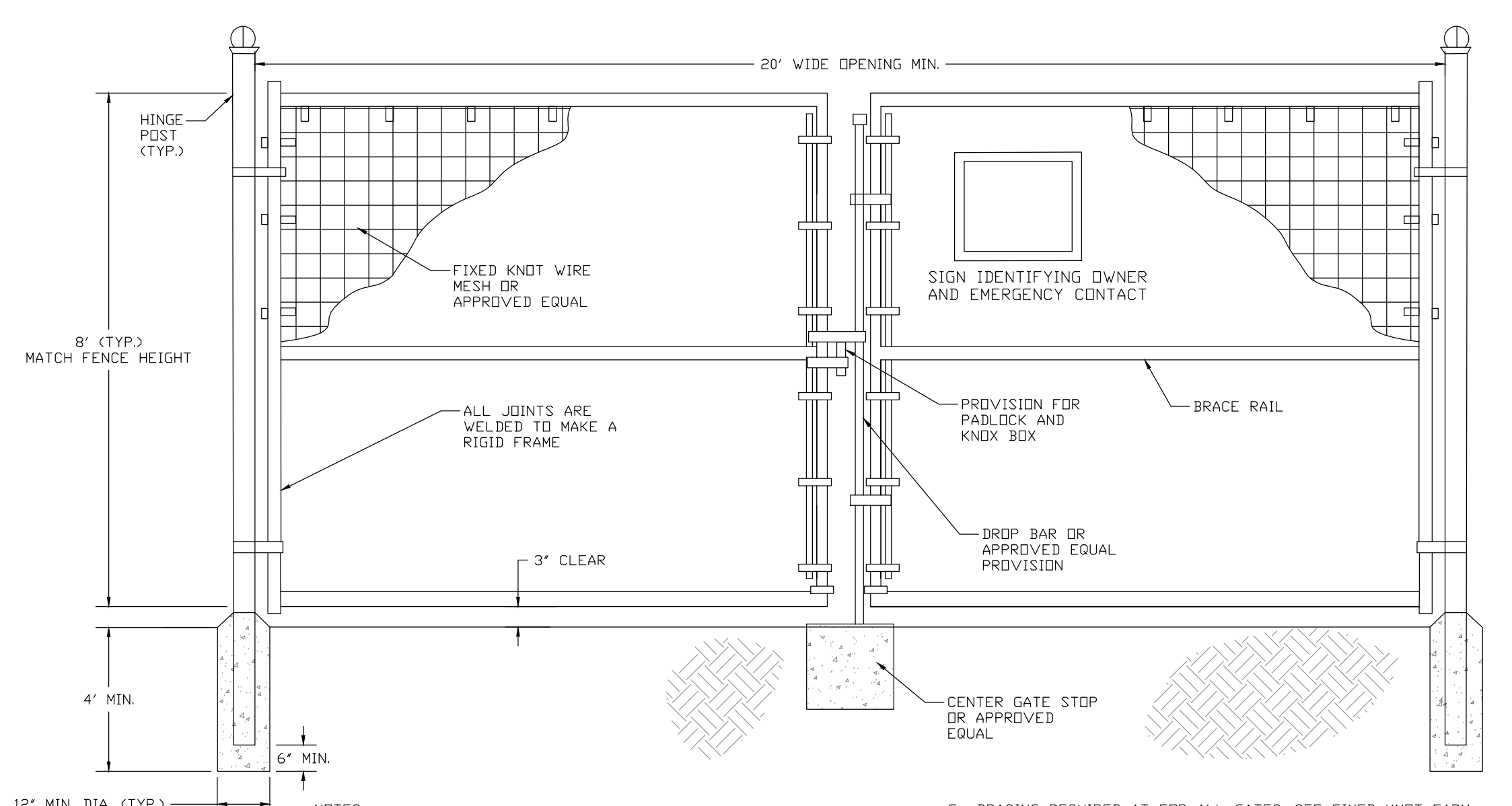
Dwg No: C-406 Size: D Sheet Rev: C

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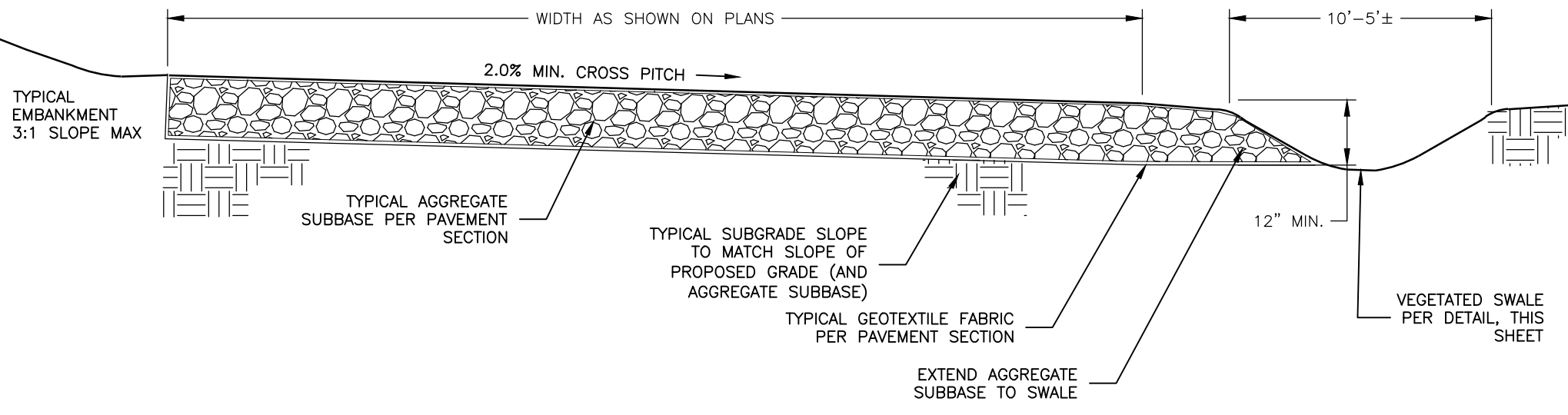
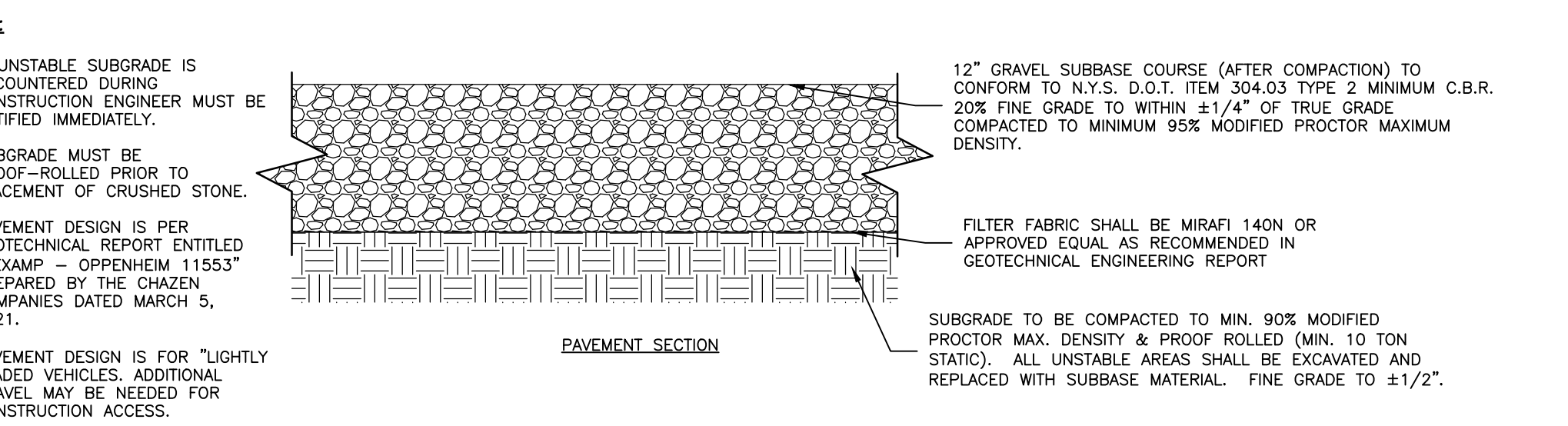
- NOTES:**
- INSTALL ALL FENCING COMPONENTS PER MANUFACTURER'S SPECIFICATIONS.
  - ALL FENCING AND HARDWARE SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
  - HINGE POSTS MAY BE TIMBER IF CONTRACTOR DESIRES, TIMBER HINGE POSTS DO NOT NEED TO BE SET IN CONCRETE. UTILIZE HINGE THRU BOLTS TO CONNECT TO TIMBER HINGE POSTS OR LAG SCREWS, PER MANUFACTURER'S RECOMMENDATIONS.
  - IF CONTRACTOR UTILIZES METAL HINGE POST THAN POSTS SHALL BE SET IN CONCRETE AS SHOWN ON DETAIL.
  - BRACING REQUIRED AT FOR ALL GATES. SEE FIXED KNOT FARM FENCE DETAIL.
  - FIXED KNOT WIRE MESH TO BE BEKAERT SOLIDLOCK® PRD, 12.5 GAUGE, CLASS 3 GALVANIZED, 6" VERTICAL SPACING OR APPROVED EQUAL.
  - BRACE RAILS AND/ OR TRUSS RODS ARE NOT SHOWN, MAY BE REQUIRED PER MANUFACTURER'S RECOMMENDATIONS.

**1 FIXED KNOT FARM FENCE - PERSONNEL GATE**  
C-500 NOT TO SCALE



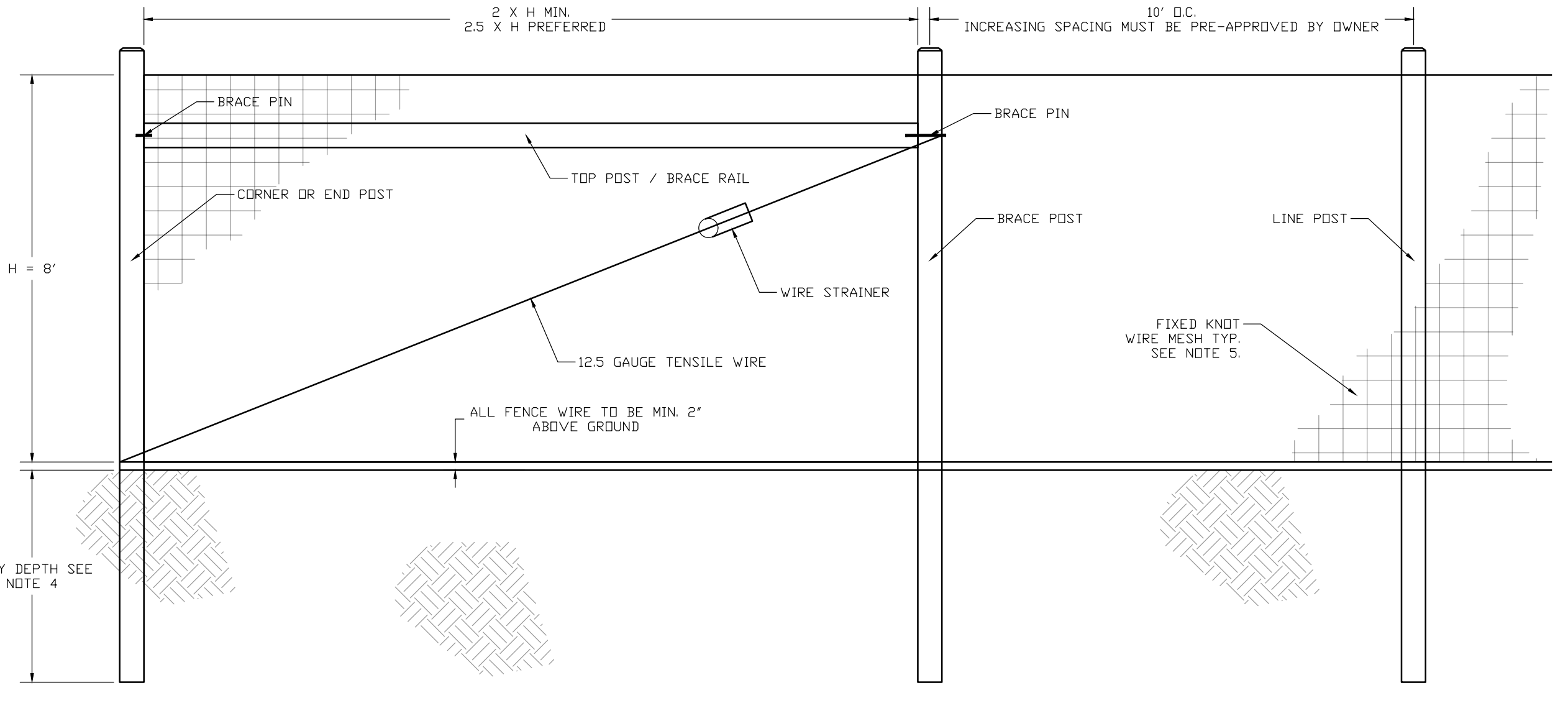
- NOTES:**
- INSTALL ALL FENCING COMPONENTS PER MANUFACTURER'S SPECIFICATIONS.
  - ALL FENCING AND HARDWARE SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
  - HINGE POSTS MAY BE TIMBER IF CONTRACTOR DESIRES, TIMBER HINGE POSTS DO NOT NEED TO BE SET IN CONCRETE. UTILIZE HINGE THRU BOLTS TO CONNECT TO TIMBER HINGE POSTS OR LAG SCREWS, PER MANUFACTURER'S RECOMMENDATIONS.
  - IF CONTRACTOR UTILIZES METAL HINGE POST THAN POSTS SHALL BE SET IN CONCRETE AS SHOWN ON DETAIL.
  - BRACING REQUIRED AT FOR ALL GATES. SEE FIXED KNOT FARM FENCE DETAIL.
  - FIXED KNOT WIRE MESH TO BE BEKAERT SOLIDLOCK® PRD, 12.5 GAUGE, CLASS 3 GALVANIZED, 6" VERTICAL SPACING OR APPROVED EQUAL.
  - BRACE RAIL SHOWN FOR REFERENCE. ADDITIONAL BRACE RAILS MAY BE REQUIRED (NOT SHOWN) OR TRUSS RODS MAY BE REQUIRED PER MANUFACTURER'S RECOMMENDATIONS.

**4 FIXED KNOT FARM FENCE - DOUBLE GATE**  
C-500 NOT TO SCALE

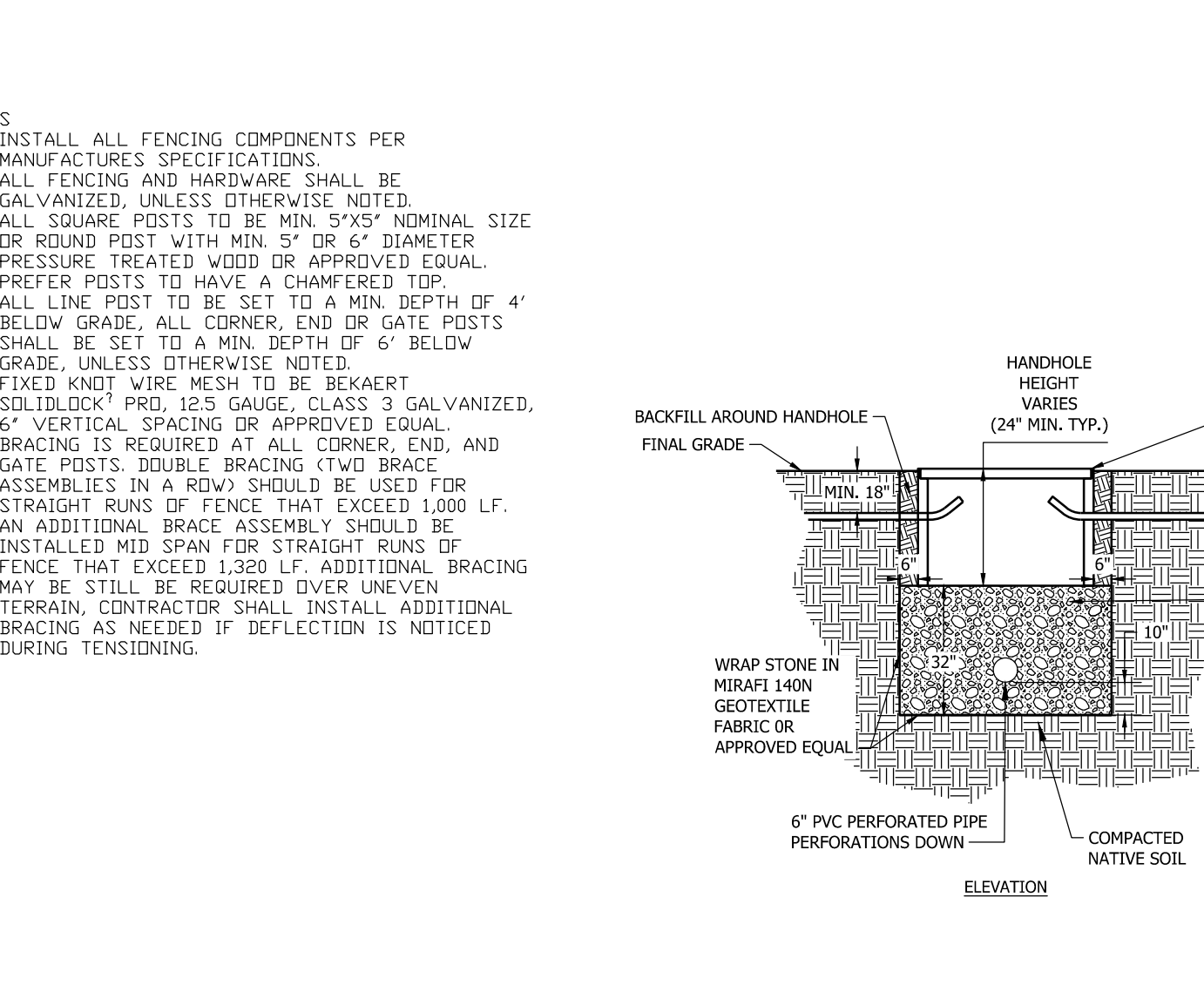


**2 GRAVEL ACCESS DRIVE SECTION**  
C-500 NOT TO SCALE

**5 VEGETATED SWALE**  
C-500 NOT TO SCALE



**3 FIXED KNOT FARM FENCE**  
C-500 NOT TO SCALE



**6 DRAINAGE HANDHOLE**  
C-500 NOT TO SCALE

**GENERAL NOTES:**

THE ENVIRONMENTAL DESIGN PARTNERSHIP IS NOT RESPONSIBLE FOR ANY CONSTRUCTION WORK PERFORMED PRIOR TO FINAL APPROVAL OF ALL PLANS AND SECURING OF ALL PERMITS AND FILING OF ALL MAPS.

CONTRACTOR TO ARRANGE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL DESIGN PARTNERSHIP AND MUNICIPALITY PRIOR TO CONSTRUCTION.

FIELD ADJUSTMENTS MUST BE APPROVED BY THE ENVIRONMENTAL DESIGN PARTNERSHIP AND THE MUNICIPALITY'S ENGINEER PRIOR TO CONSTRUCTION.

CONTRACTOR IS TO VERIFY THAT ALL NECESSARY WORK PERMITS AND EASEMENTS ARE IN PLACE PRIOR TO COMMENCEMENT OF WORK.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AND TAKE ALL SPECIAL TEMPORARY AND PERMANENT PRECAUTIONS NECESSARY TO ENSURE A STABLE AND SECURE JOB.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY TOWN, COUNTY OR STATE HIGHWAY CUT PERMITS.

THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND EASEMENTS PRIOR TO CONSTRUCTION AND BECOME FAMILIAR WITH THE CONDITIONS OF EACH PERMIT.

THE CONTRACTOR SHALL PROTECT AND SUSTAIN IN NORMAL SERVICE ALL EXISTING UTILITIES, STRUCTURES, EQUIPMENT, ROADWAYS, AND DRIVEWAYS.

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND RIGHT-OF-WAY PROPERTY LINES PRIOR TO CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES SUCH AS GAS, POWER, TELEPHONE, CABLE TV, WATER, SEWER, ETC. PRIOR TO COMMENCEMENT OF CONSTRUCTION.

AS PER NYS INDUSTRIAL CODE 53: CONTRACTOR TO CALL DIG SAFELY NEW YORK, INC. AT 1-800-992-7992 TO LOCATE BURIED CABLES AND/OR UNDERGROUND UTILITIES NO LESS THAN TWO OR MORE THAN TEN WORKING DAYS PRIOR TO DIGGING, DRILLING, EXCAVATING, DRIVING POSTS, ETC.

CONTRACTOR MUST VERIFY THE ACCEPTABILITY OF ALL CONSTRUCTION MATERIALS WITH MUNICIPALITY'S ENGINEER PRIOR TO ORDERING.

INSTALLATION AND MATERIAL SPECIFICATIONS FOR STORM SEWER SHALL CONFORM TO THE MUNICIPALITY'S STANDARD DETAILS AND REQUIREMENTS. INSTALLATION PROCEDURES AND MATERIALS MUST BE VERIFIED WITH MUNICIPALITY PRIOR TO CONSTRUCTION.

ANY EXISTING STORM SEWERS AND UNDERGROUND UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION AND FOR INFORMATION ONLY. THE CONTRACTOR SHALL HAVE THEIR EXACT LOCATION CHECKED AT THE SITE BEFORE CONSTRUCTION BEGINS.

CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING PIPE INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES WHICH RESULT MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

IMMEDIATELY, CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, GRADES, PIPE INVERTS AND ELEVATIONS AND REVIEW WITH CONSULTANT BEFORE CONSTRUCTION.

ALL EXCAVATION TO MEET OSHA AND NYS DOT SAFETY REGULATIONS AND STANDARDS.

THE CONTRACTOR SHALL FILL IN, AND RE-EXCAVATE, AS NECESSARY TO RESUME WORK, ANY EXCAVATIONS OR TRENCHES AT LOCATIONS AND AS OFTEN AS MAY BE REQUIRED TO ENSURE PROTECTION OF THE WORK, ANY ADJACENT EXISTING FACILITIES, OR THE PUBLIC.

THE CONTRACTOR SHALL CLEAN UP THE JOB SITE DAILY BEFORE LEAVING THE JOBSITE. ALL RUBBISH MUST BE CLEANED UP AND CONSTRUCTION EQUIPMENT MUST BE PROPERLY TAKEN CARE OF AND STORED AT THE END OF THE DAY.

CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL AND SAFETY DURING CONSTRUCTION. THE CONTRACTOR SHALL FURNISH ALL FLAGMEN AND SIGNS, DELINEATORS, BARRIERS, AND DEVICES NECESSARY FOR TRAFFIC CONTROL DURING ANY EARTH-MOVING OPERATION OR OTHER CONSTRUCTION ACTIVITY WHICH INVOLVES PUBLIC HIGHWAYS.

ALL TRAFFIC SIGNS, CONTROL DEVICES AND INFORMATIONAL ITEMS, IF DISTURBED DURING CONSTRUCTION WITHIN CONTRACT LIMIT LINES, SHALL BE RELOCATED AS PER APPROVAL OF MUNICIPALITY.

RESTORATION OF PAVEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPLACE AND RESTORE PAVEMENT WITH MATERIAL TO A CONDITION EQUAL TO OR BETTER THAN PRECONSTRUCTION CONDITIONS. ALL DELINEATORS, BARRIERS, AND DEVICES NECESSARY FOR TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE REPLACED AND RESTORED TO ORIGINAL CONDITION.

SOLAR PANEL, EQUIPMENT PAD, AND MV UNDERGROUND CABLE LAYOUT WERE PROVIDED BY OTHERS.

SOLAR PANEL, EQUIPMENT PAD, AND MV UNDERGROUND CABLE DESIGN, INCLUDING, BUT NOT LIMITED TO, SUBGRADE SUITABILITY, PREPARATION, REQUIRED TRENCHING, AND BEDDING TO BE DESIGNED BY OTHERS.

INSPECTION SERVICES BY THE ENVIRONMENTAL DESIGN PARTNERSHIP ARE NOT SUPERVISORY. ACCORDINGLY, THE ENVIRONMENTAL DESIGN PARTNERSHIP CAN NEITHER GUARANTEE THE PERFORMANCE OF THE CONSTRUCTION CONTRACTS BY CONTRACTORS NOR ASSUME RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO FURNISH AND PERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

DRAINAGE HANDHOLE DETAIL AND LOCATIONS PROVIDED BY OTHERS. CONTRACTOR TO COORDINATE DIRECTLY WITH NEXAMP PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. CONTRACTOR TO CONFIRM LOCATIONS AND INVERT ELEVATIONS IN FIELD AND NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARISE.

**NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS CONSTRUCTION REQUIREMENTS:**

- CONSTRUCTION ACTIVITIES ON THIS SITE MUST COMPLY WITH THE NYS DEPARTMENT OF AGRICULTURE AND MARKETS (NYS/DA) PUBLISHED GUIDELINES FOR CONSTRUCTION MITIGATION FOR AGRICULTURAL LANDS LAST REVISED OCTOBER 18, 2019. THE FOLLOWING REPRESENTS ONLY A CONSOLIDATED SUMMARY OF THE GUIDELINES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE COMPLETE GUIDELINES AND COMPLY WITH THE APPLICABLE REQUIREMENTS DURING CONSTRUCTION.
- PRIOR TO CONSTRUCTION CONTRACTOR SHALL OBTAIN SOIL SAMPLES FROM AREAS TO BE DISTURBED (ONE (1) SET OF SOIL SAMPLES FOR EVERY 10 ACRES OF DISTURBANCE) AND SUBMITTED TO AN APPROVED LABORATORY FOR TESTING OF PH, PERCENT ORGANIC MATERIAL, CATION EXCHANGE CAPACITY, PHOSPHORUS / PHOSPHATE(P), AND POTASSIUM/POTASH(K). SOIL SAMPLING SHALL BE CONSISTENT WITH CORNELL UNIVERSITY'S SOIL TESTING GUIDELINES WITHIN REPRESENTATIVE AREAS OF THE PROPOSED DISTURBANCE. RESULTS SHALL BE SUBMITTED TO THE OWNER.
- STRIPPED TOPSOIL SHALL BE STOCKPILED FROM WORK AREAS AND KEPT SEPARATE FROM OTHER EXCAVATED MATERIAL UNTIL THE COMPLETION OF THE FACILITY FOR FINAL RESTORATION. EXCESS TOPSOIL SHALL BE SPREAD EVENLY IN AGRICULTURAL AREAS WITHIN THE LIMIT OF DISTURBANCE OR AS NOTED ON THE PLANS. IN NO CASE SHALL THE SPREADING OF EXCESS TOPSOIL ALTER THE HYDROLOGY OF THE AREA.
- TOPSOIL STOCKPILES ON AGRICULTURAL AREAS LEFT IN PLACE PRIOR TO OCTOBER 31 SHALL BE SEEDING WITH ARROSTOOK WINTER RYE OR EQUIVALENT AT AN APPLICATION RATE OF THREE BUSHELS (168 LB) PER ACRE AND MULCHED WITH STRAW AT A RATE OF TWO TO THREE BALES PER 1000 SF.
- TOPSOIL STOCKPILES ON AGRICULTURAL AREAS LEFT IN PLACE BETWEEN OCTOBER 31 AND MAY 31 SHALL BE MULCHED WITH STRAW AT A RATE OF TWO TO THREE BALES PER 1000 SF TO PREVENT SOIL LOSS.
- THE SURFACE OF ACCESS ROADS LOCATED OUTSIDE OF THE FENCED AREA AND CONSTRUCTED THROUGH AGRICULTURAL FIELDS SHALL BE LEVEL WITH THE ADJACENT FIELD SURFACE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL ENSURE THAT NO VEHICLES OR EQUIPMENT ARE ALLOWED OUTSIDE THE DESIGNED LIMIT OF DISTURBANCE, VEHICLE AND EQUIPMENT TRAFFIC, PARKING AND MATERIAL STORAGE SHALL BE LIMITED TO THE ACCESS ROADS AND/OR DESIGNATED WORK AREAS WITH THE EXCEPTION OF LOW GROUND PRESSURE EQUIPMENT.
- ALL BURIED UTILITIES LOCATED WITHIN THE FENCED AREA MUST HAVE A MINIMUM COVER DEPTH OF 18 INCHES IF LOCATED WITHIN CONDUIT AND 24 INCHES IF DIRECT BURIED.
- ALL BURIED UTILITIES LOCATED OUTSIDE OF THE FENCED AREA SHALL HAVE A MINIMUM COVER DEPTH OF 48 INCHES IF LOCATED WITHIN CROPLAND, HAYLAND OR IMPROVED PASTURE AREAS. IN AREAS WHERE THE DEPTH OF SOIL OVER BEDROCK IS LESS THAN 48 INCHES THE ELECTRICAL CONDUCTORS MUST BE BURIED BELOW THE SURFACE OF THE BEDROCK IF FRAGILE/RIPPABLE OR AS NEAR AS POSSIBLE TO THE SURFACE OF THE BEDROCK. ALL BURIED UTILITIES LOCATED IN UNIMPROVED GRAZING AREAS OR ON LAND PERMANENTLY DEVOTED TO PASTURE SHALL HAVE A MINIMUM COVER DEPTH OF 36 INCHES. WHERE ELECTRICAL CONDUCTORS ARE BURIED DIRECTLY BELOW THE GENERATION FACILITY'S ACCESS ROAD OR IMMEDIATELY ADJACENT TO THE ACCESS ROAD THE MINIMUM DEPTH OF COVER MUST BE 24 INCHES.
- EXCESS STRIPPED TOPSOIL SHALL NOT BE UTILIZED FOR FILL WITHIN PROJECT AREAS.
- CONTRACTOR TO REPAIR ALL SURFACE OR SUBSURFACE DRAINAGE STRUCTURES DAMAGED DURING CONSTRUCTION.
- RESTORATION WORK ON AGRICULTURAL LAND SHALL BE COMPLETED DURING FAVORABLE (WORKABLE, RELATIVELY DRY) CONDITIONS AND NOT WHILE SOILS AREA IN A WET OR PLASTIC STATE OF CONSISTENCY.
- IN ALL CONTINUED USE AGRICULTURAL LAND WHERE THE TOPSOIL WAS STRIPPED SUBSOIL DECOMPACTION SHALL BE CONDUCTED PRIOR TO TOPSOIL REPLACEMENT TO A DEPTH OF 18 INCHES WITH A TRACTOR MOUNTED DEEP RIPPER OR HEAVY-DUTY CHISEL PLOW.
- CONTRACTOR SHALL SEED ALL AREAS FROM WHICH VEGETATION WAS REMOVED OR DESTROYED WITH THE SEED MIX SPECIFIED BY OWNER.

**SITE DETAILS**

NOT FOR CONSTRUCTION

Scale: As Shown

Approved by: STA

Drawn by: BMW

Dwg No: C-500

Size: D

Sheet Rev: C

**FOR MUNICIPAL APPROVAL ONLY - NOT INTENDED FOR CONSTRUCTION**

**nexamp**

101 Summer Street, Boston, MA 02110  
Tel: (617) 431-1440 Fax: (978) 416-2525 Web: nexamp.com

**edp**

**ENVIRONMENTAL DESIGN PARTNERSHIP, LLP**

300 Route 144 Chilton Park, New York 12665  
(518) 971-7621

Rev	Issued For	Date
A	PRELIM PLAN SET	5/22/2023
B	INTERNAL COMMENTS	8/10/2023
C	INTERNAL COMMENTS	9/15/2023



**WILSON HILL SOLAR**

469 Wilson Hill Road  
Hoosick Falls, NY 12090

Project:

**SITE DETAILS**

NOT FOR CONSTRUCTION

Scale: As Shown

Approved by: STA

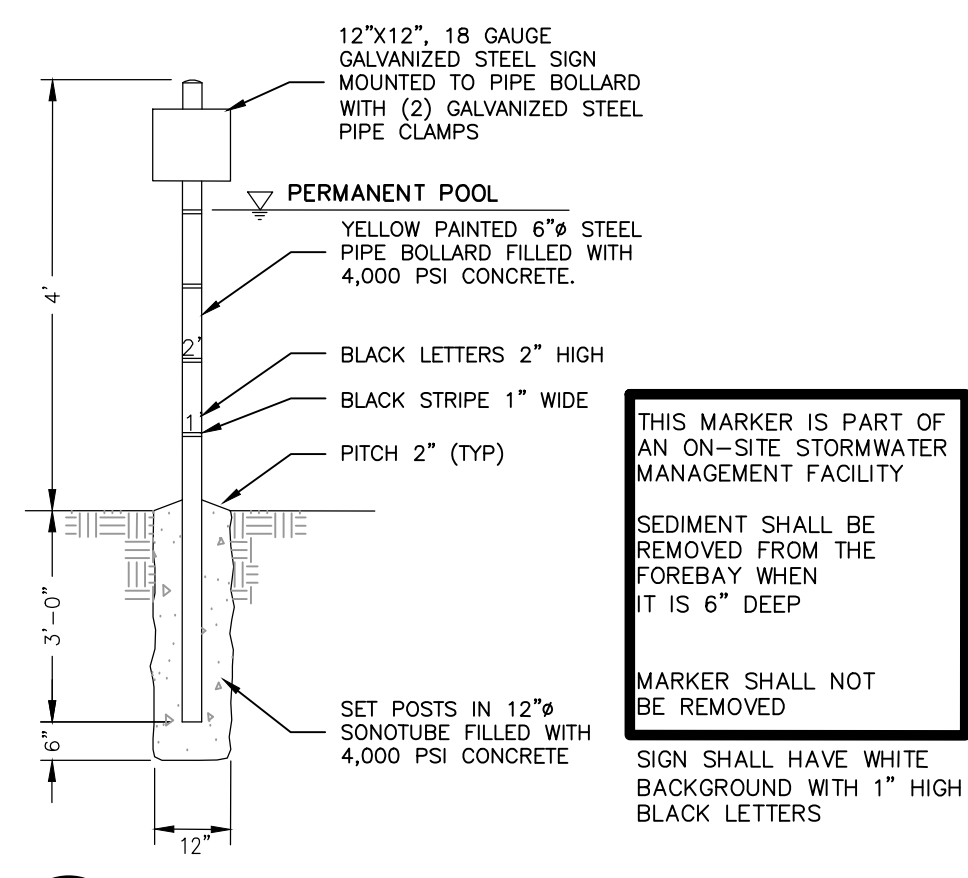
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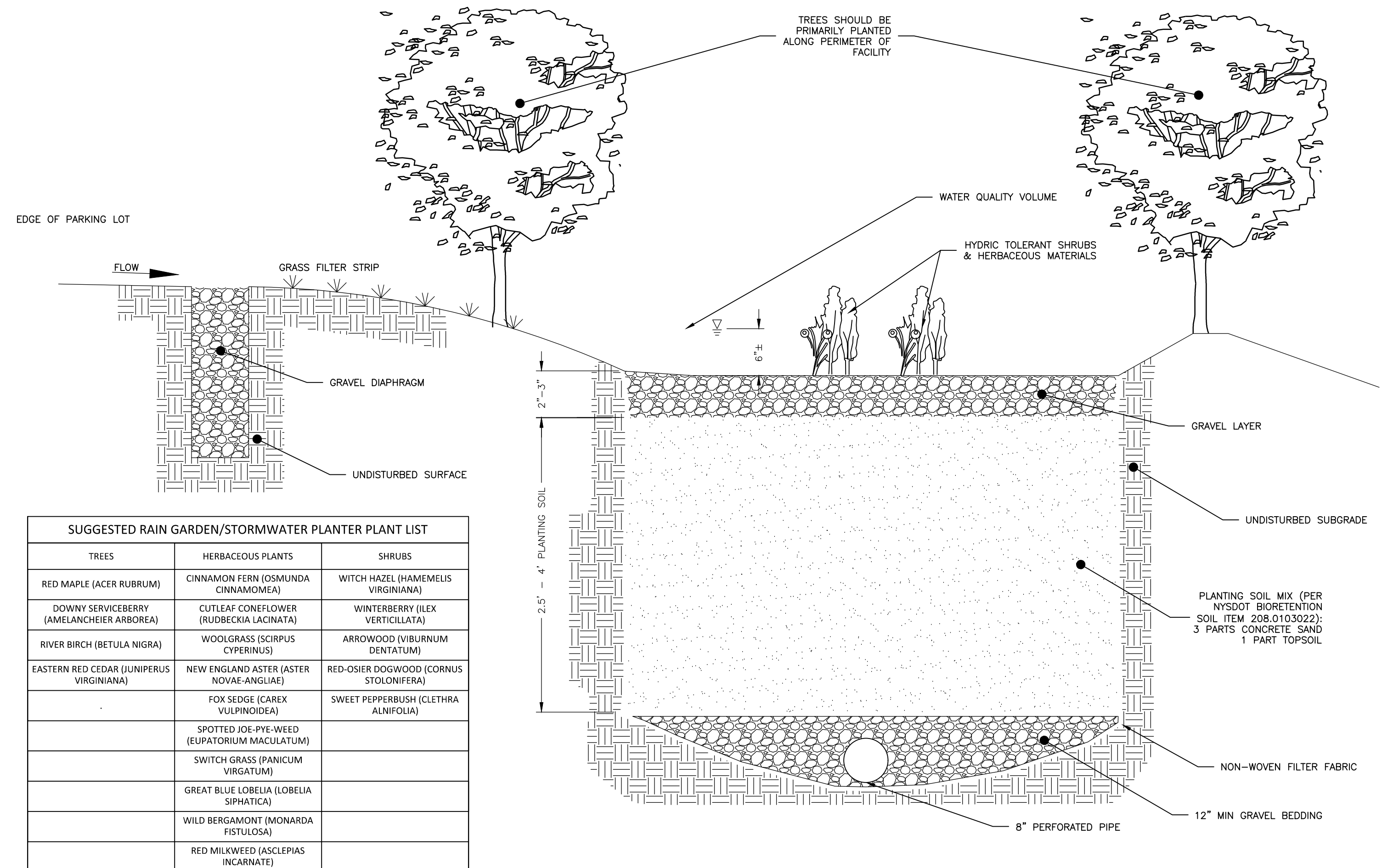
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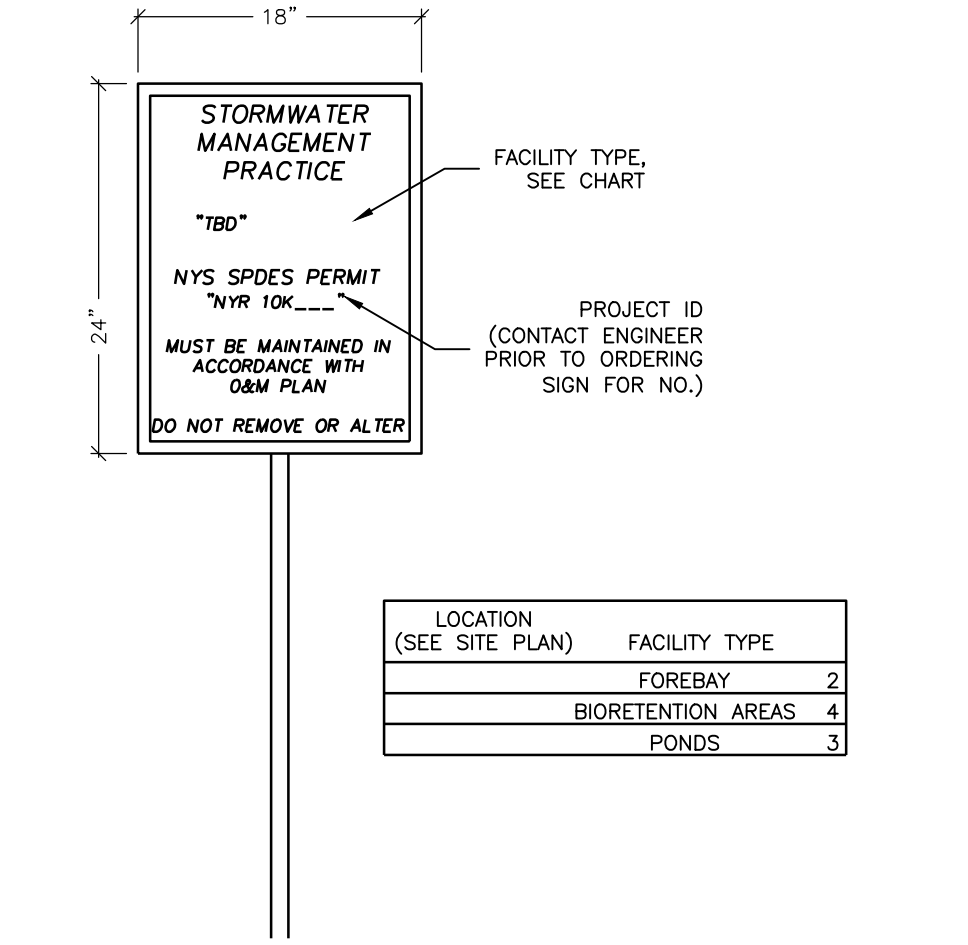


**1 SEDIMENT DEPTH GAUGE**  
C-501 NOT TO SCALE

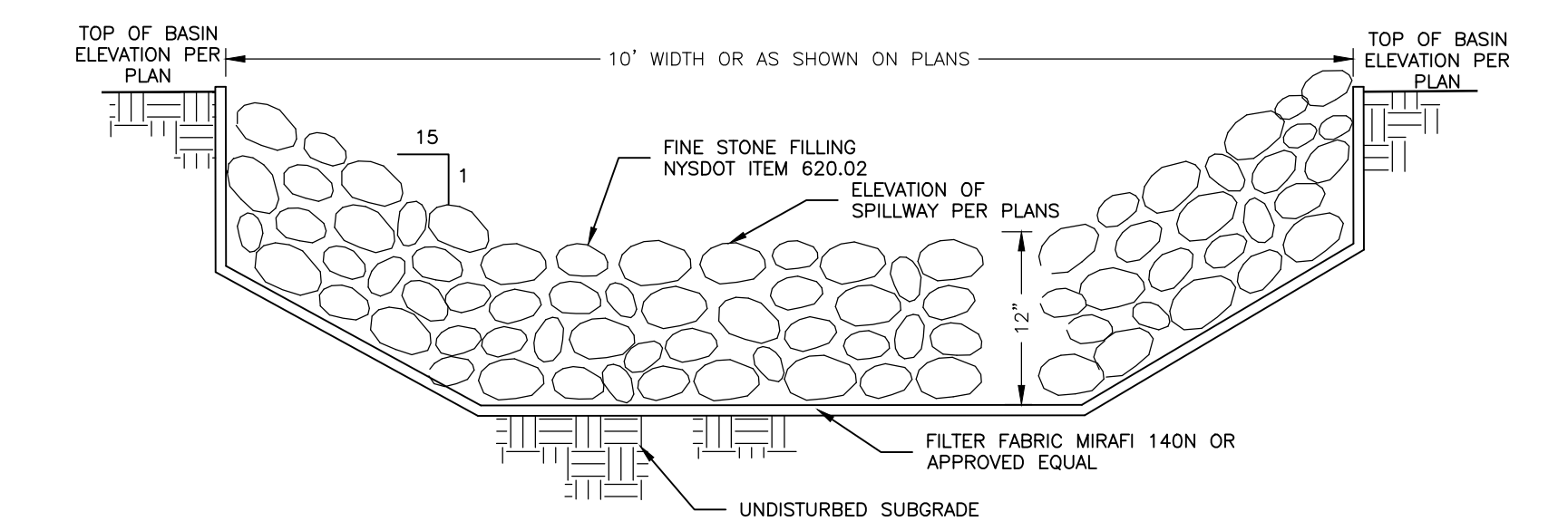


TREES	HERBACEOUS PLANTS	SHRUBS
RED MAPLE (ACER RUBRUM)	CINNAMON FERN (OSMUNDA CINNAMOMEA)	WITCH HAZEL (HAMAMELIS VIRGINIANA)
DOWNY SERVICEBERRY (AMELANCHEIER ARBOREA)	CUTLEAF CONEFLOWER (RUDBECKIA LACINATA)	WINTERBERRY (ILEX VERTICILLATA)
RIVER BIRCH (BETULA NIGRA)	WOOLGRASS (SCIRPUS CYPERINUS)	ARROWWOOD (VIBURNUM DENTATUM)
EASTERN RED CEDAR (JUNIPERUS VIRGINIANA)	NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE)	RED-OSIER DOGWOOD (CORNUS STOLONIFERA)
	FOX SEDGE (CAREX VULPINOIDEA)	SWEET PEPPERBUSH (CLETHRA ALNIFOLIA)
	SPOTTED JOE-PYE-WEEED (EUPATORIUM MACULATUM)	
	SWITCH GRASS (PANICUM VIRGATUM)	
	GREAT BLUE LOBELIA (LOBELIA SIPHATICA)	
	WILD BERGAMOT (MONARDA FISTULOSA)	
	RED MILKWEEED (ASCLEPIAS INCARNATE)	

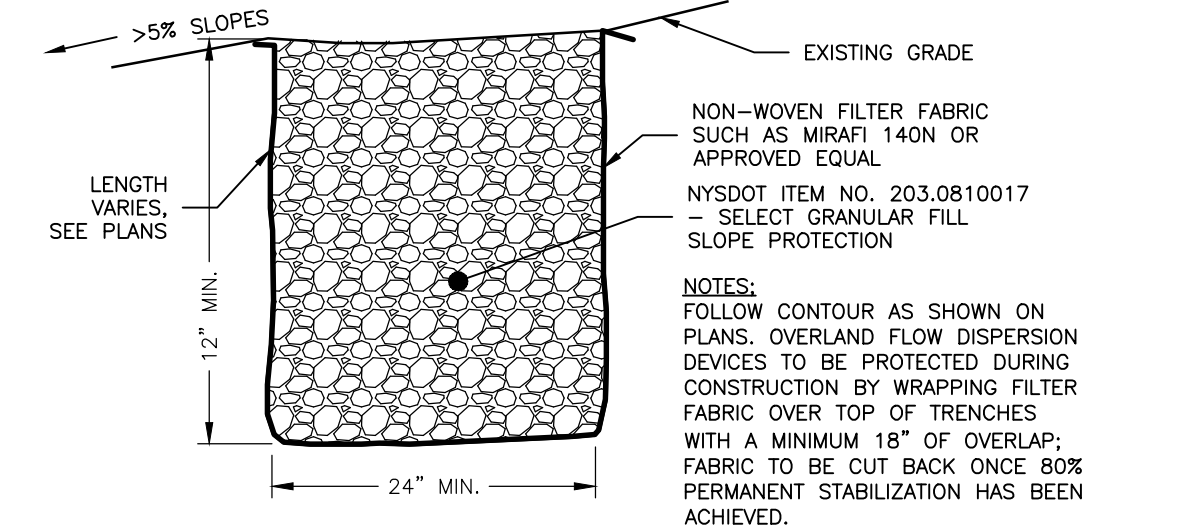
**3 BIORETENTION AREA**  
C-501 NOT TO SCALE



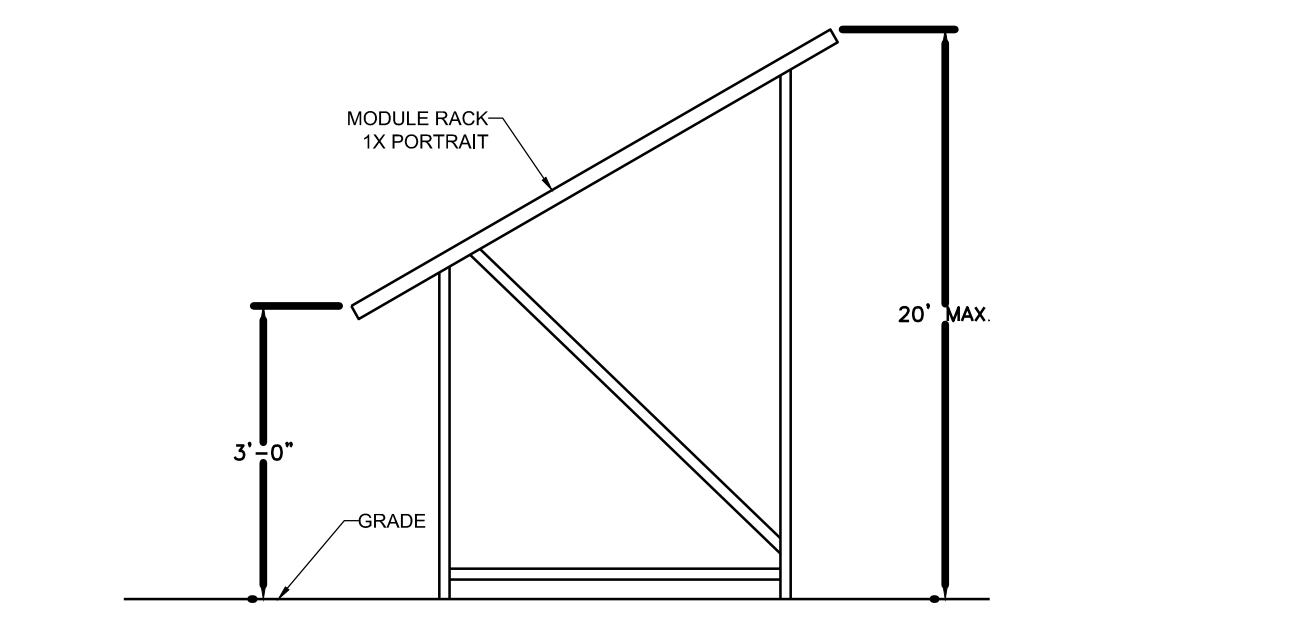
**2 STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN**  
C-501 NOT TO SCALE



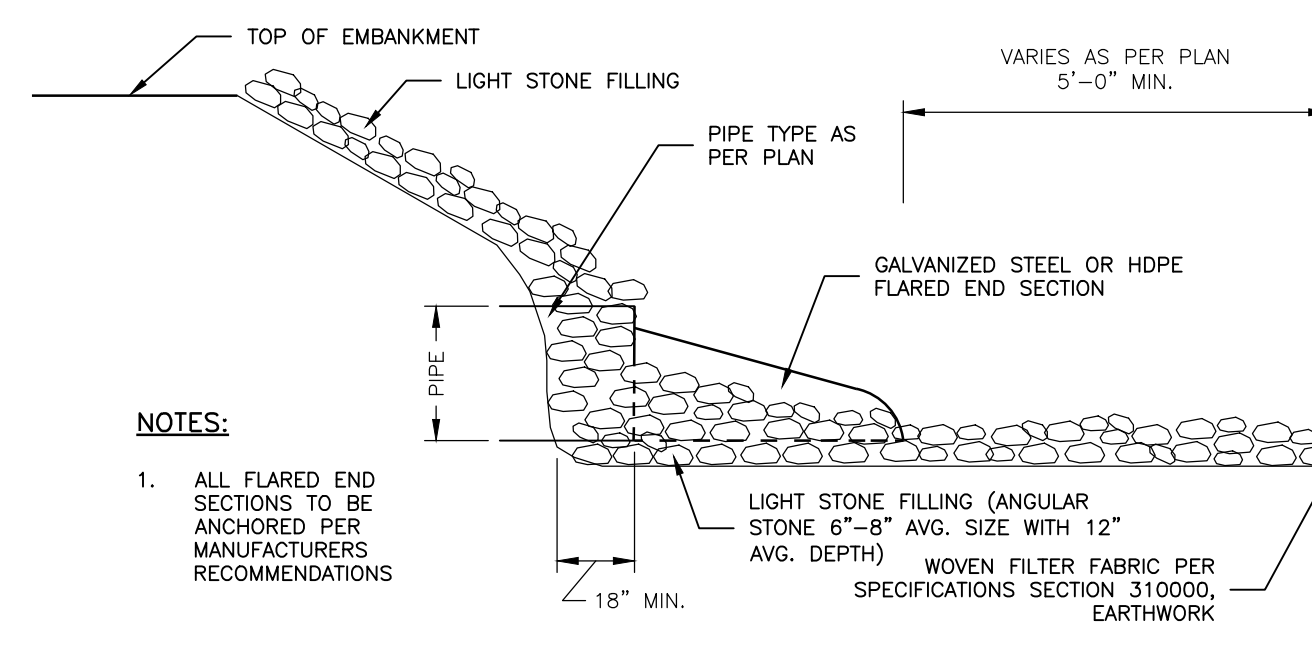
**4 EMERGENCY SPILLWAY**  
C-501 NOT TO SCALE



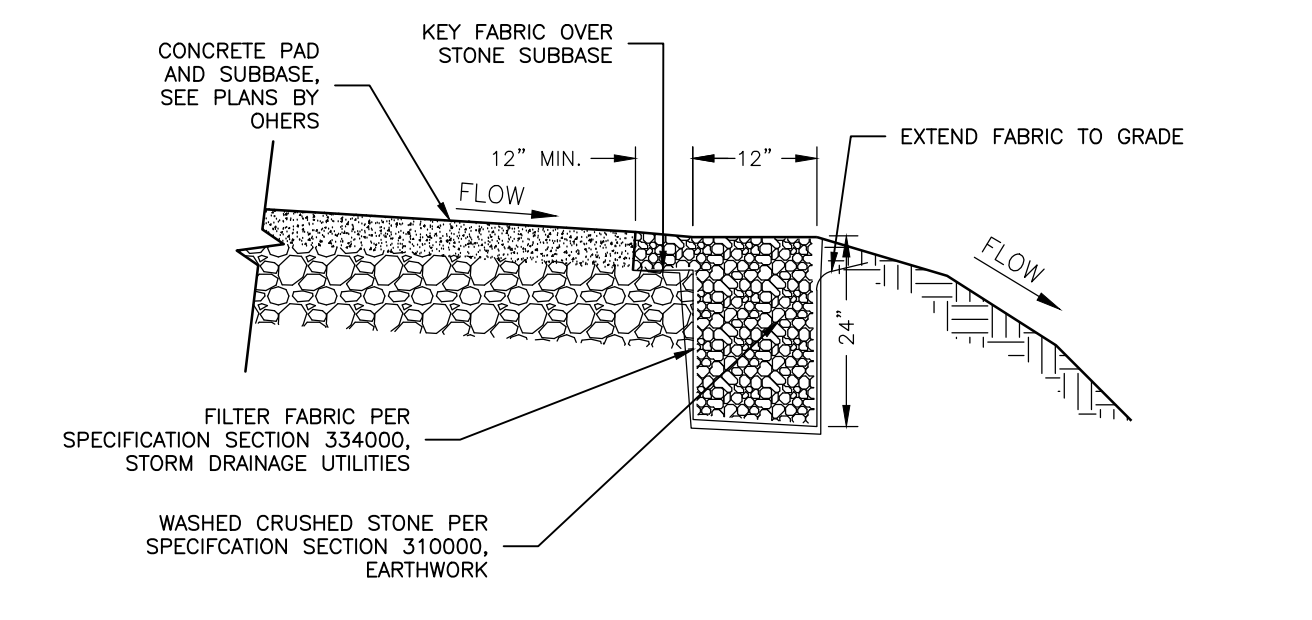
**5 OVERLAND FLOW DISPERSION DEVICE**  
C-501 NOT TO SCALE



**6 SOLAR ARRAY FIXED TILT RACK DETAIL**  
C-501 NOT TO SCALE

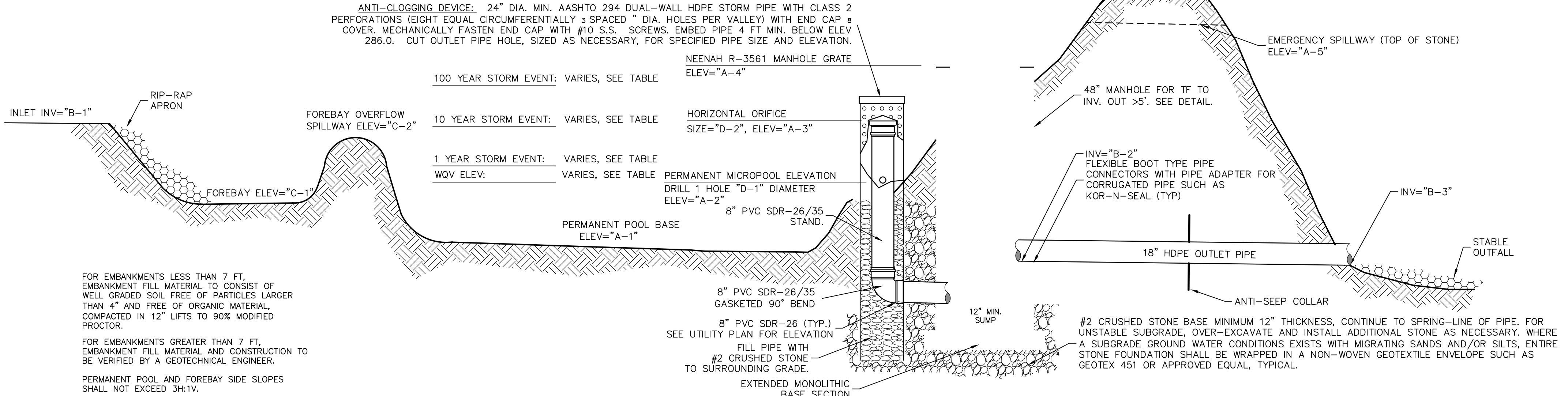


**7 FLARED END SECTION**  
C-501 NOT TO SCALE

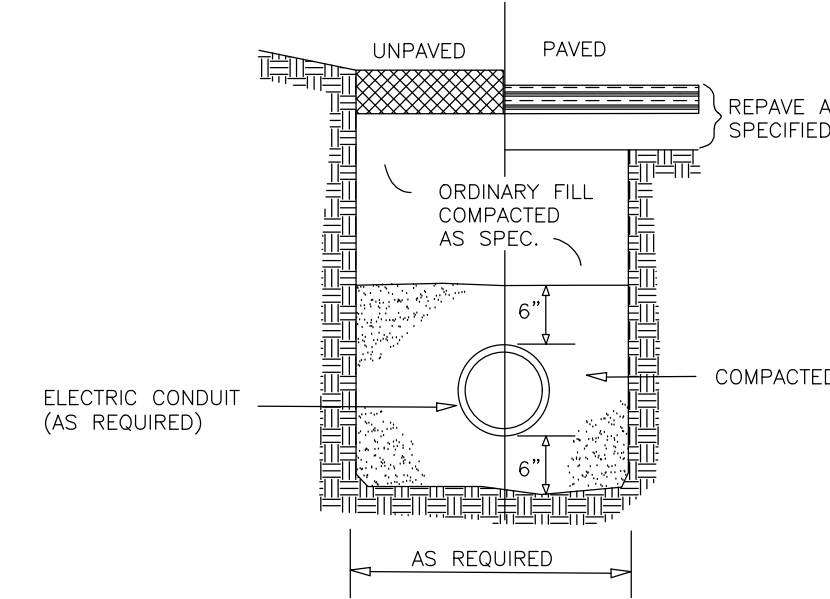


**8 GRAVEL DIAPHRAGM**  
C-501 NOT TO SCALE

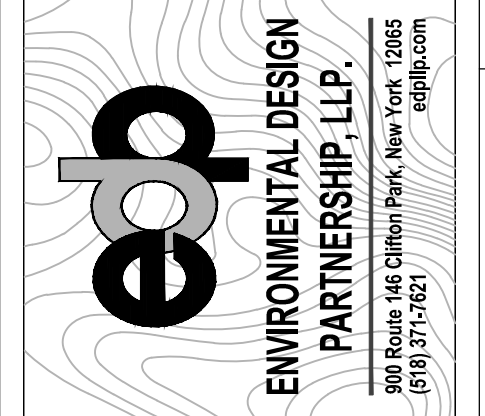
MICROPOOL EXTENDED DETENTION POND ELEVATIONS	SMA #1
A-1 (FT)	891.00
A-2 (FT)	894.00
A-3 (FT)	895.80
A-4 (FT)	896.85
A-5 (FT)	898.00
B-1 (FT)	899.00
B-2 (FT)	893.90
B-3 (FT)	892.50
C-1 (FT)	894.00
C-2 (FT)	898.00
D-1 (IN)	3.0"
D-2 (IN)	12.0"
STORM EVENT	
1 YR (FT)	895.78
10 YR (FT)	896.81
25 YR (FT)	897.21
100 YR (FT)	897.98



**9 WET POND**  
C-501 NOT TO SCALE



**10 MV CABLE TRENCH**  
C-501 NOT TO SCALE



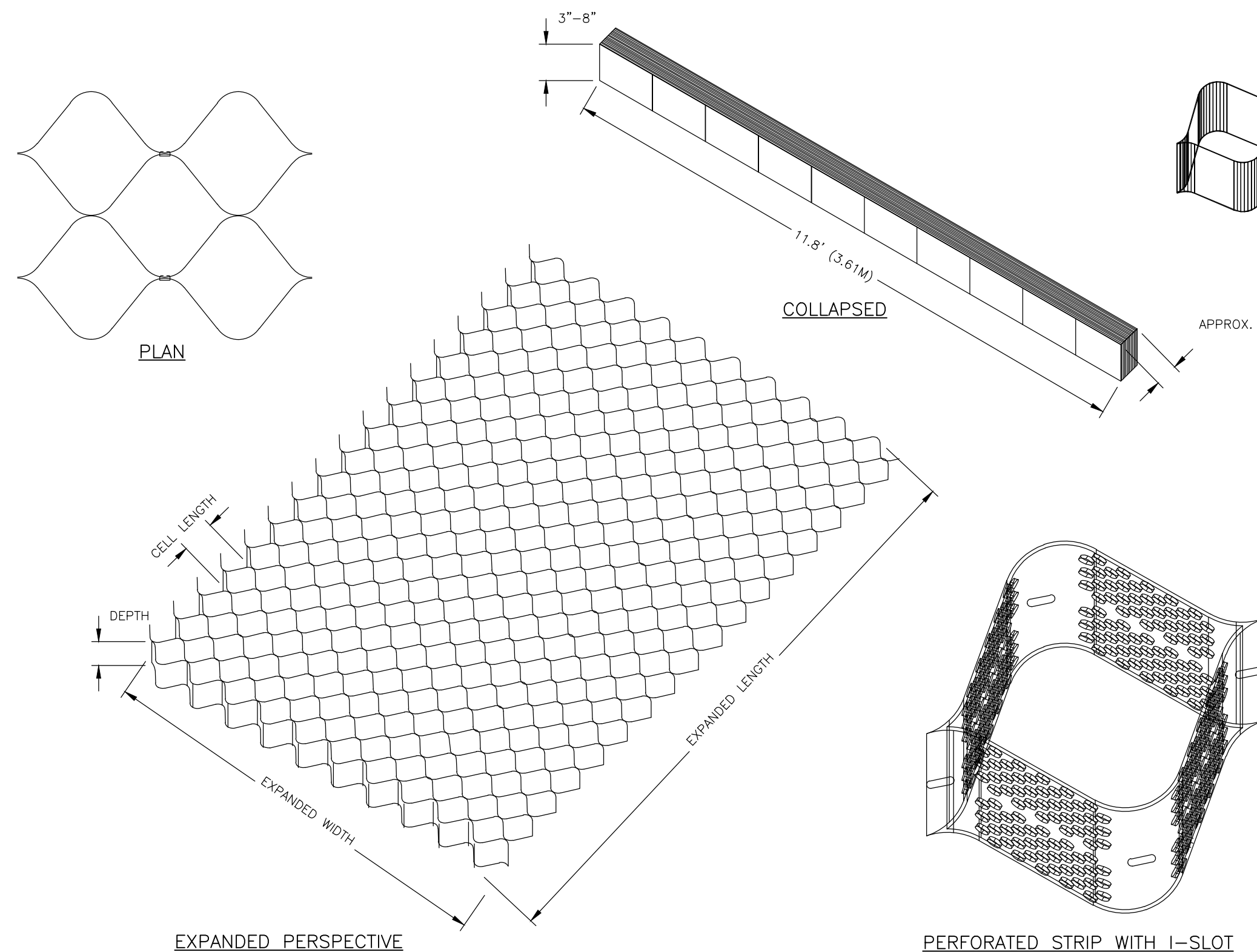
Rev	Issued For	Date
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**WILSON HILL SOLAR**  
469 Wilson Hill Road  
Hoosick Falls, NY 12090

**SITE DETAILS**  
NOT FOR CONSTRUCTION  
Scale: As Shown Approved by: STA

Dwg No: C-501 Size: D Sheet Rev: C



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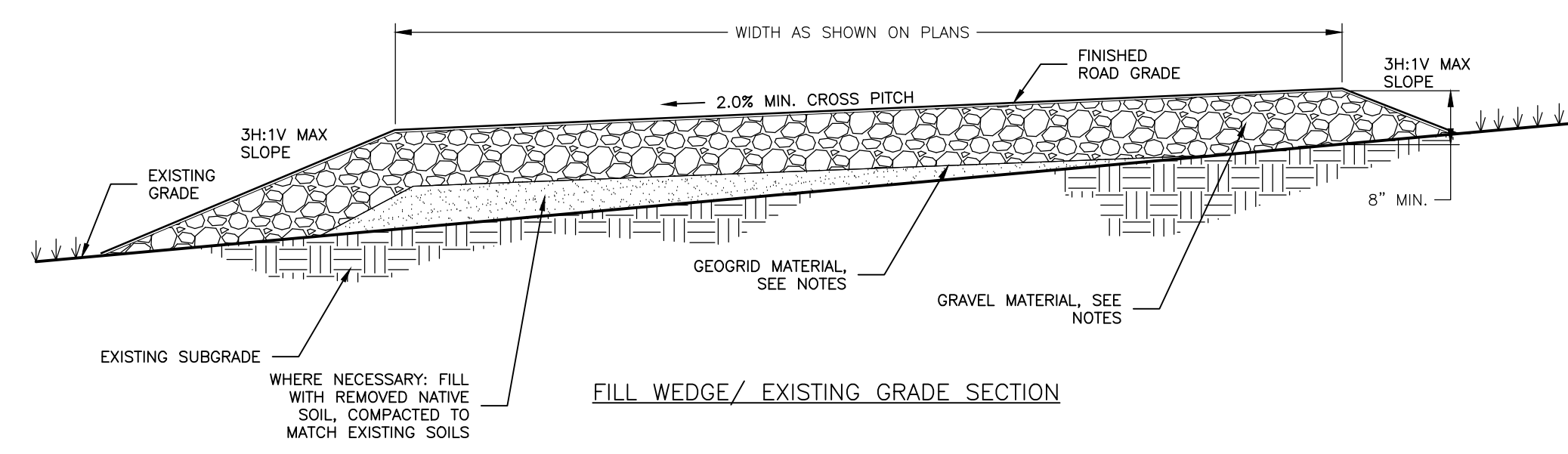
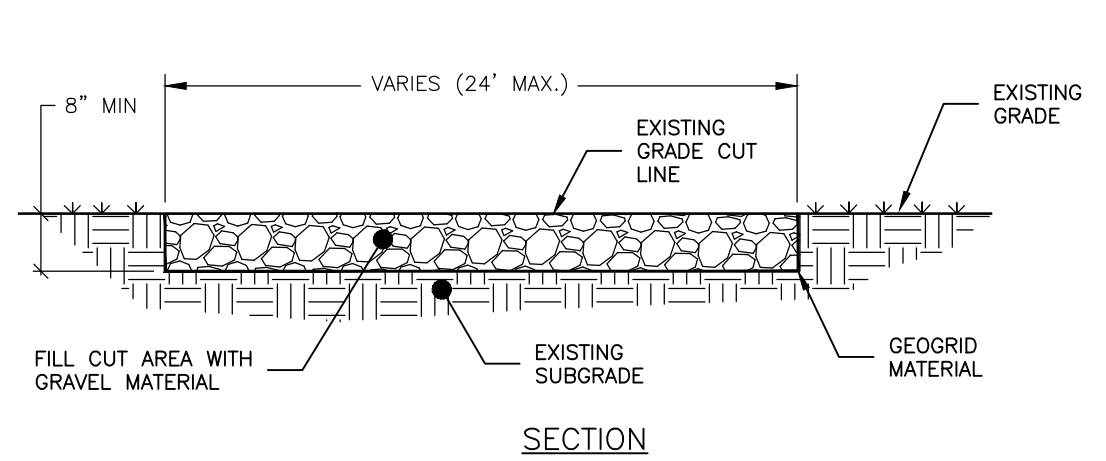
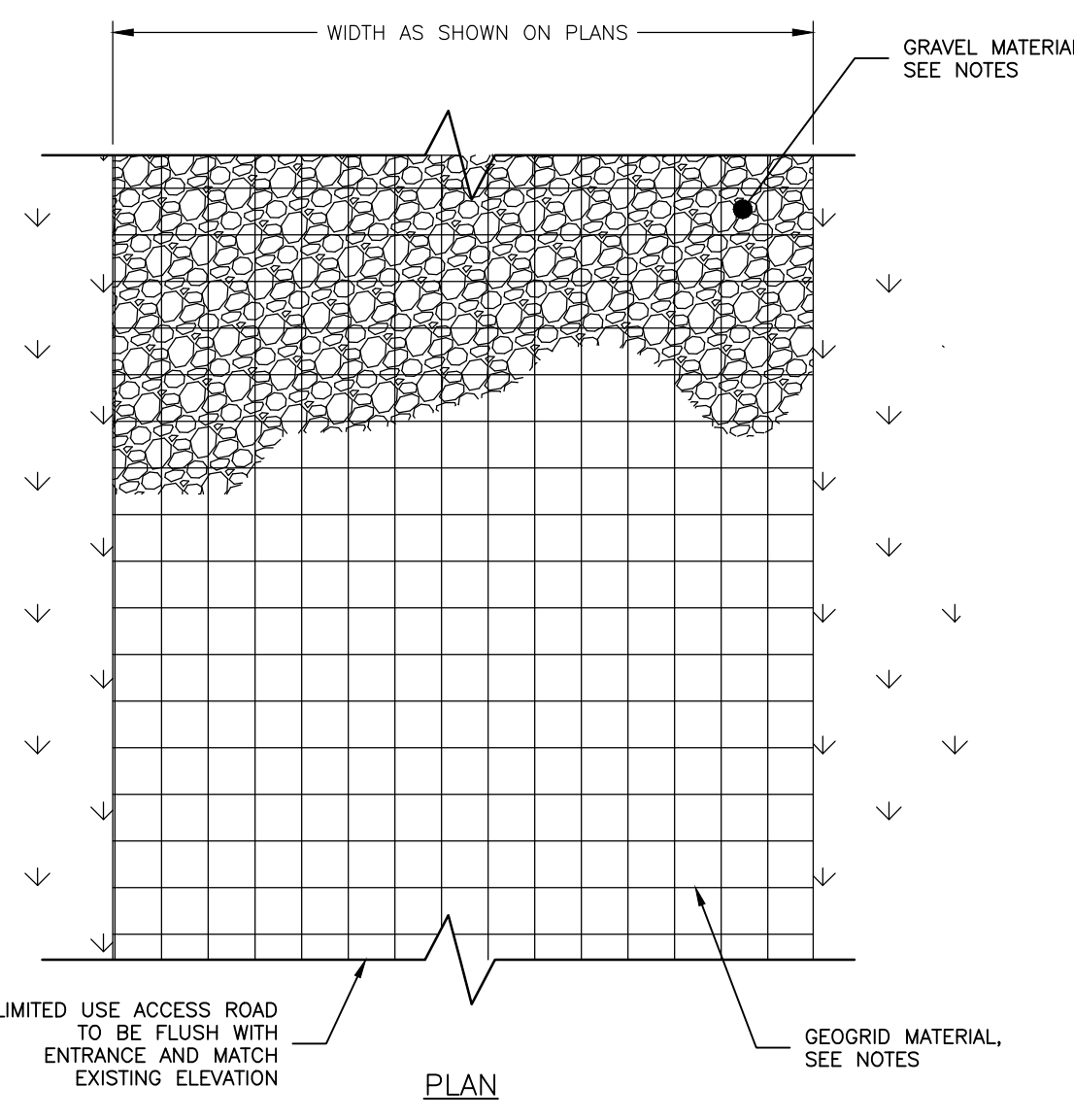
1 GEOWEB FOR PERVIOUS ACCESS ROAD

C-502 NOT TO SCALE

- GENERAL NOTES:
1. USE OF THIS DETAIL/CRITERION IS LIMITED TO ACCESS ROAD USED ON AN OCCASIONAL BASIS ONLY (I.E. PROVIDE ACCESS FOR MOWING, EQUIPMENT REPAIR OR MAINTENANCE, ETC.)
2. LIMITED USE PERVIOUS ACCESS ROAD IS LIMITED TO LOW IMPACT IRREGULAR MAINTENANCE ACCESS ASSOCIATED WITH RENEWABLE ENERGY PROJECTS IN NEW YORK STATE...

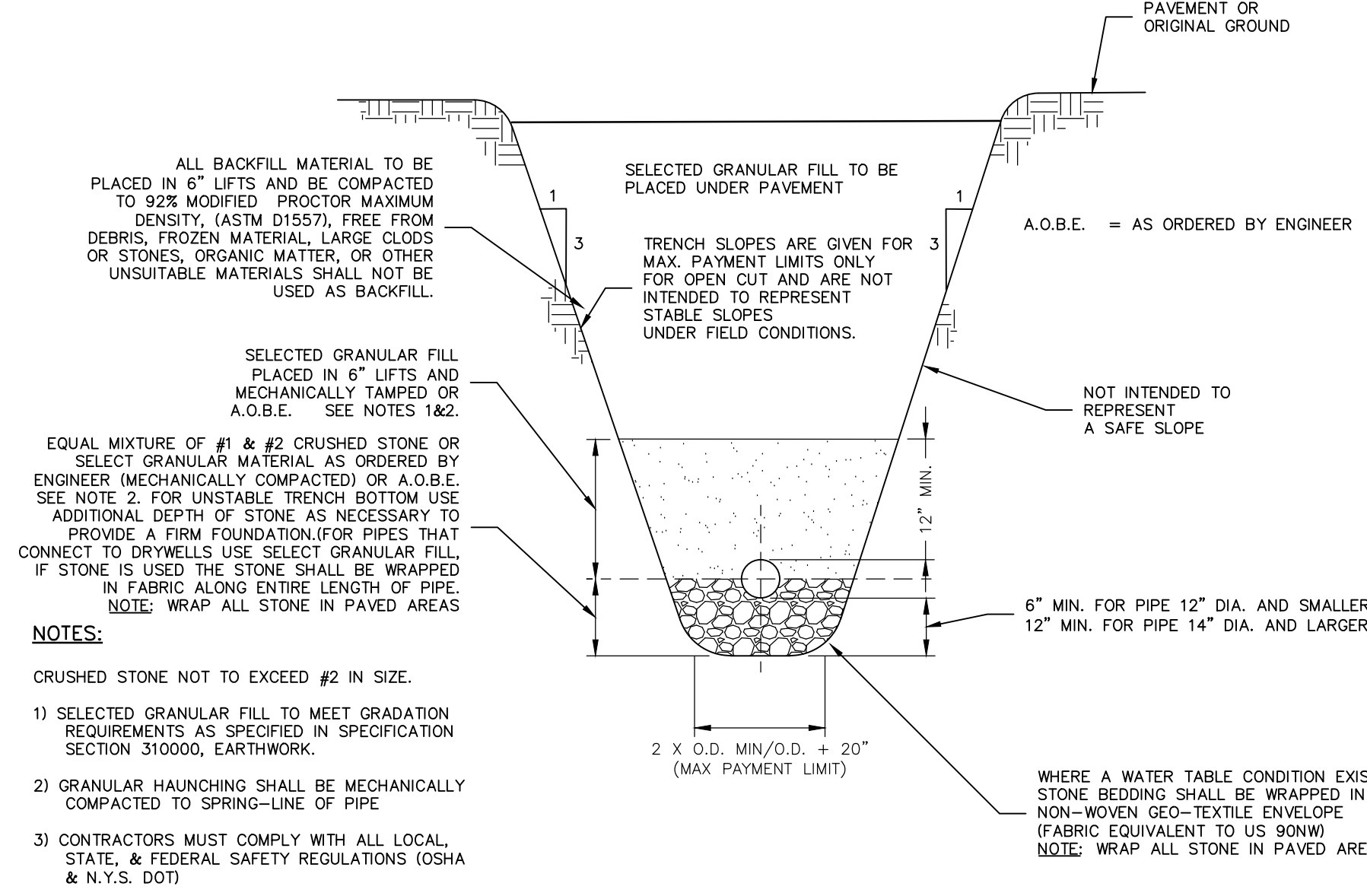
GEOWEB MATERIAL NOTES:

- 1. GRAVEL FILL MATERIAL SHALL CONSIST OF CLEAN, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYS DOT ITEM 703-02, SIZE DESIGNATION 3 AND 3A OF TABLE 703-4...



2 NYSDEC LIMITED USE PERVIOUS ACCESS ROAD 0% TO 5% SLOPES

C-502 NOT TO SCALE



3 STORM TRENCH

C-502 NOT TO SCALE

GENERAL NOTES:

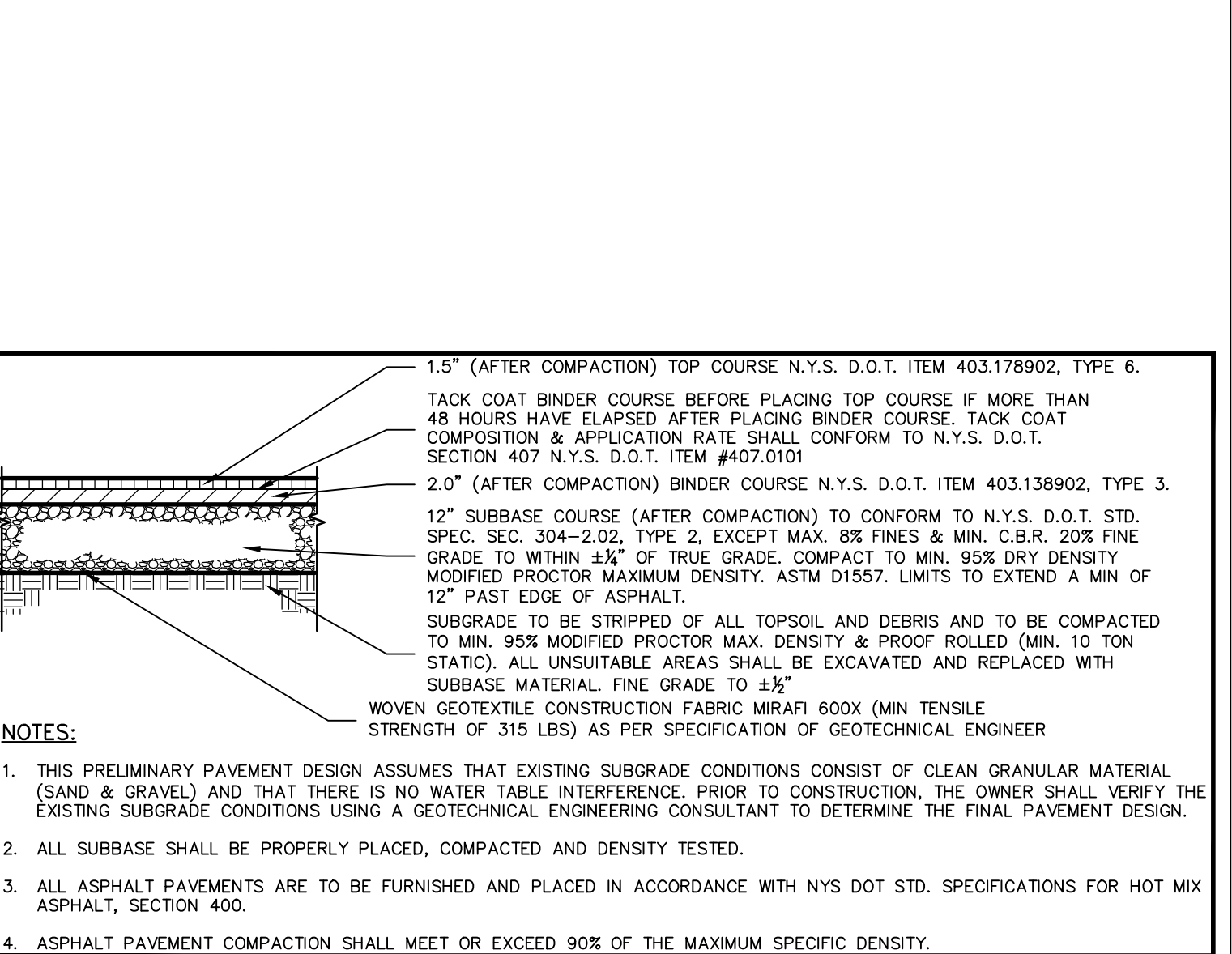
- 1. SELECTED GRANULAR FILL TO MEET GRADATION REQUIREMENTS AS SPECIFIED IN SPECIFICATION SECTION 310000, EARTHWORK.
2. GRANULAR HAUNCHING SHALL BE MECHANICALLY COMPACTED TO SPRING-LINE OF PIPE
3. CONTRACTORS MUST COMPLY WITH ALL LOCAL, STATE, & FEDERAL SAFETY REGULATIONS (OSHA & N.Y.S. DOT)

GEOWEB MATERIAL NOTES:

- 1. THE GEOWEB, OR APPROVED EQUAL, SHALL BE USED ON ROAD PROFILES EXCEEDING 5%. THE GEOWEB PRODUCT IS INTENDED TO LIMIT SHIFTING STONE MATERIAL DURING USE.
2. WHERE REQUIRED, A NATIVE SOIL WEDGE SHALL BE PLACED TO ACCOMMODATE ROAD CROSS SLOPE OF 2%. NATIVE SOIL SHALL BE COMPACTED TO MATCH EXISTING SOIL CONDITIONS...

WOVEN GEOTEXTILE NOTES:

- 1. SPECIFIED GEOTEXTILE SHALL BE MIRAFI BXG, MIRAFI H2R, OR APPROVED EQUAL.

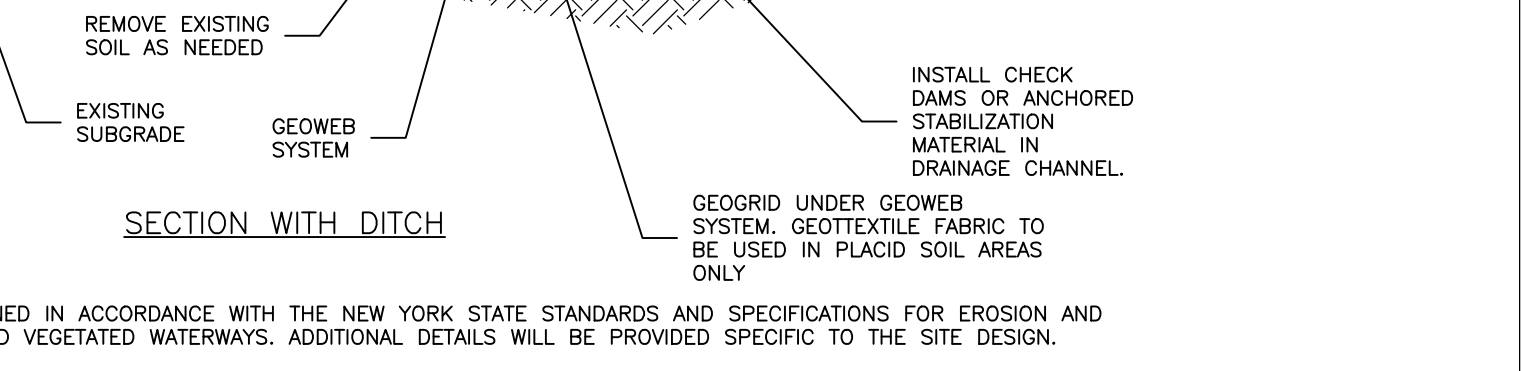
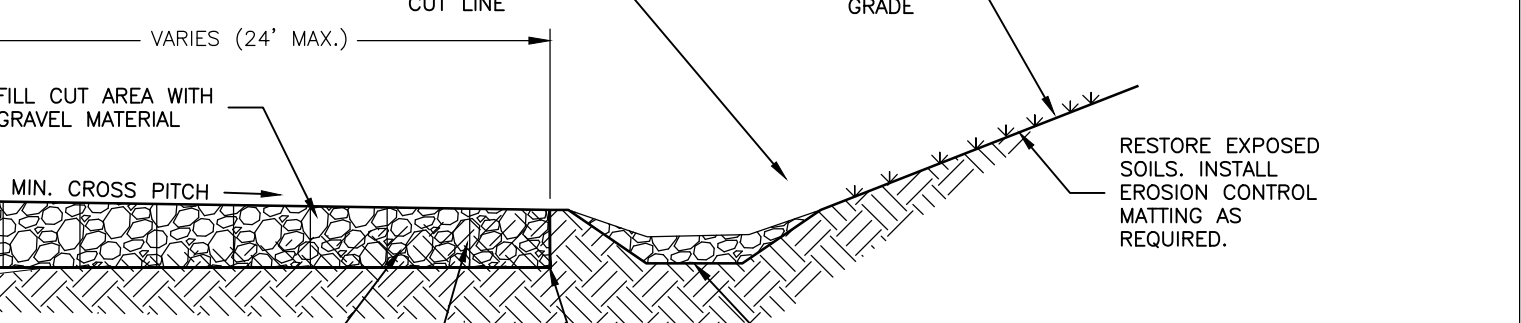
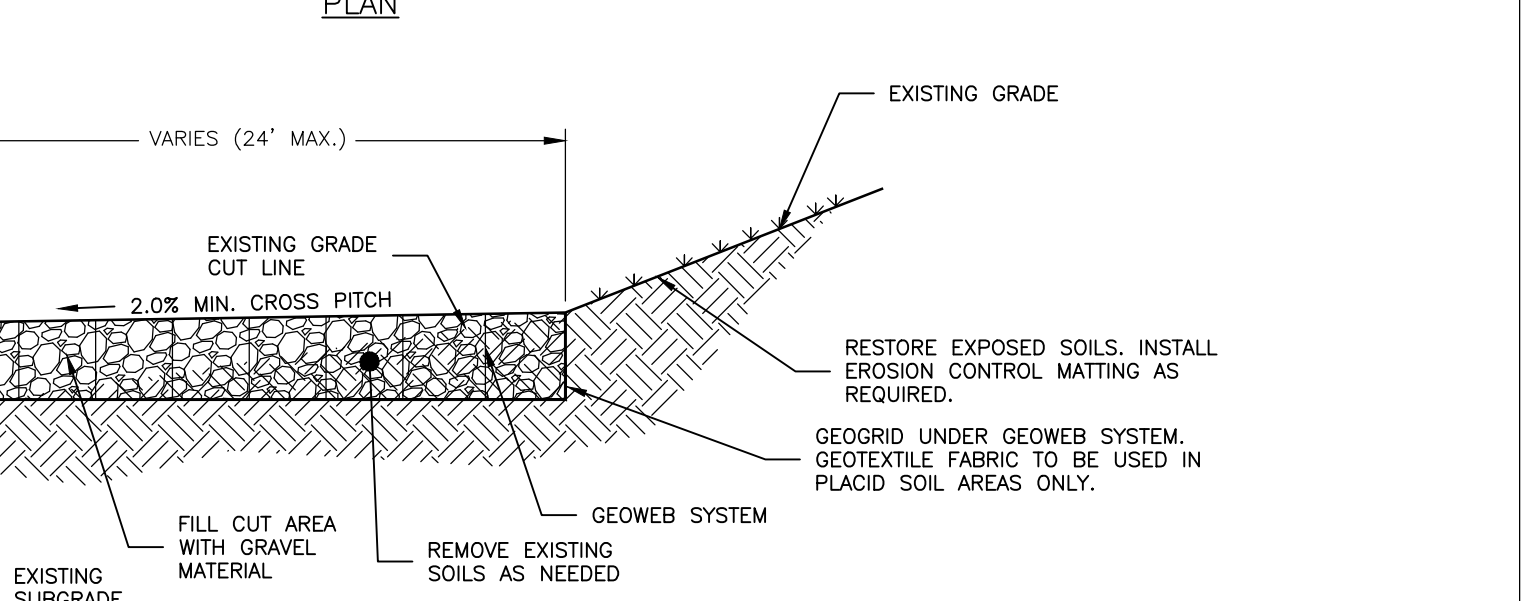
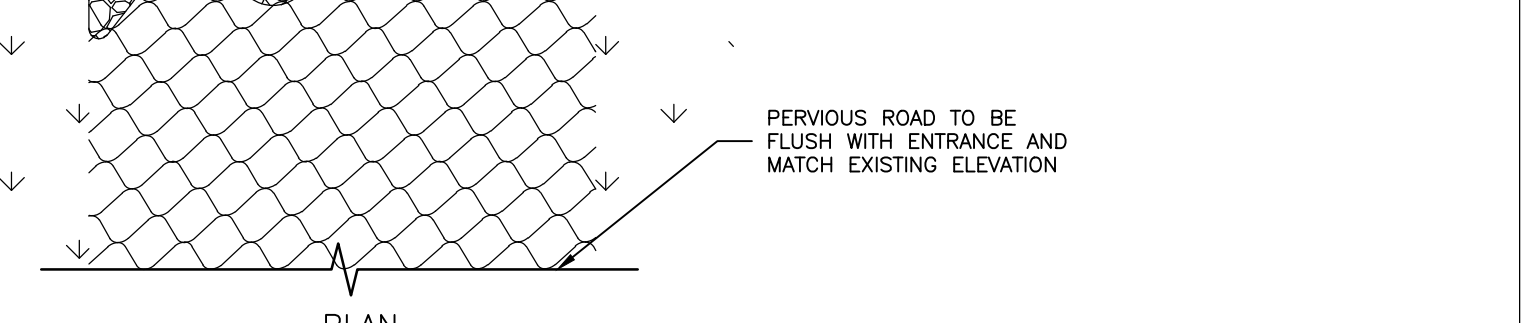


4 MEDIUM DUTY PAVEMENT SECTION

C-502 NOT TO SCALE

NOTES:

- 1. THIS PRELIMINARY PAVEMENT DESIGN ASSUMES THAT EXISTING SUBGRADE CONDITIONS CONSIST OF CLEAN GRANULAR MATERIAL (SAND & GRAVEL) AND THAT THERE IS NO WATER TABLE INTERFERENCE. PRIOR TO CONSTRUCTION, THE OWNER SHALL VERIFY THE EXISTING SUBGRADE CONDITIONS USING A GEOTECHNICAL ENGINEERING CONSULTANT TO DETERMINE THE FINAL PAVEMENT DESIGN.
2. ALL SUBBASE SHALL BE PROPERLY PLACED, COMPACTED AND DENSITY TESTED.
3. ALL ASPHALT PAVEMENTS ARE TO BE FURNISHED AND PLACED IN ACCORDANCE WITH NYS DOT STD. SPECIFICATIONS FOR HOT MIX ASPHALT, SECTION 400.
4. ASPHALT PAVEMENT COMPACTION SHALL MEET OR EXCEED 90% OF THE MAXIMUM SPECIFIC DENSITY.



NOTE: 1. THE ROADSIDE DITCH SHALL BE DESIGNED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS FOR GRASSED AND VEGETATED WATERWAYS. ADDITIONAL DETAILS WILL BE PROVIDED SPECIFIC TO THE SITE DESIGN.

2 NYSDEC LIMITED USE PERVIOUS ACCESS ROAD 0% TO 5% SLOPES

C-502 NOT TO SCALE

5 NYSDEC LIMITED USE PERVIOUS ACCESS ROAD GREATER THAN 5% SLOPES

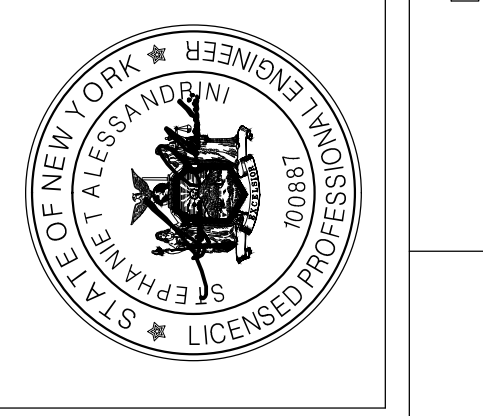
C-502 NOT TO SCALE

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nexamp logo and contact information: 101 Summer Street, Boston, MA 02110. Tel: (617) 431-1440 Fax: (978) 416-2525 Web: nexamp.com

edp ENVIRONMENTAL DESIGN PARTNERSHIP, LLP. 900 Route 146, Office Park, New York, NY 10968 (914) 371-1821

Table with columns: Rev, Issued For, Date. Rows: A PRELIM PLAN SET 5/22/2023, B INTERNAL COMMENTS 8/10/2023, C INTERNAL COMMENTS 9/15/2023.



WILSON HILL SOLAR 469 Wilson Hill Road Hoosick Falls, NY 12090

SITE DETAILS NOT FOR CONSTRUCTION Scale: As Shown Approved by: STA Drawing Title: Drawn by: BMW Dwg No: Size: D Sheet Rev: C-502 C

Vertical text on the left edge of the page, likely a project identifier or drawing title.

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**PLANTING PLAN LEGEND**

- DENOTES EXISTING GRADE
- DENOTES USACE WETLAND AREAS
- DENOTES MESH WIRE/WOOD FENCE
- AREA TO BE SEEDDED WITH ERNMx-179 BUTTERFLY & HUMMINGBIRD GARDEN MIX
- AREA TO BE SEEDDED WITH ERNMx-129 CONSERVATION SHADE MIX
- DENOTES MEDIUM VOLTAGE TRENCH (SEE ELECTRICAL PLANS FOR DETAILS)
- DENOTES PROPOSED CONTOUR
- DENOTES CONTROL POINT

**NOTES:**

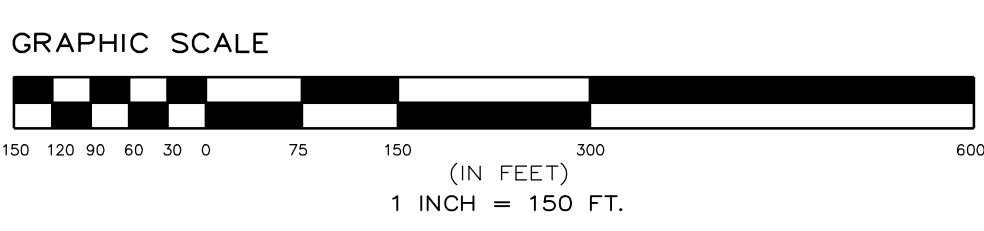
1. PERMEABLE AREAS BETWEEN AND UNDERNEATH SOLAR PANELS TO BE SEEDDED WITH ERNMx-129 CONSERVATION SHADE MIX AND REBEL TALL FESCUE, CHEWINGS FESCUE, OR HARD FESCUE, AS SPECIFIED, THIS SHEET.
2. AREAS OUTSIDE OF FENCED AREA TO BE SEEDDED WITH ERNMx-179 BUTTERFLY & HUMMINGBIRD GARDEN MIX, AS SPECIFIED ON THIS SHEET.
3. TEMPORARILY DISTURBED WETLAND AREAS OUTSIDE OF SOLAR ARRAY TO BE SEEDDED WITH PINELANDS NURSERY, LOW GROW MIX FOR WET SITE AT A RATE OF 20 LB/ACRE OR OWNER APPROVED EQUAL.
4. STORMWATER MANAGEMENT AREAS AND VEGETATED SWALES TO BE SEEDDED AS SPECIFIED ON RESPECTIVE DETAILS, TYP.

ERNST SEEDS (ERNMX - 179)*			
QUANTITY	SPECIES	COMMON	APPLICATION RATE
29.6%	SCHIZACHYRIUM SCOPARIUM, FORT INDIANTOWN GAP - PA ECOTYPE	LITTLE BLUESTEM, FORT INDIANTOWN GAP-PA ECOTYPE	30 LB PER ACRE
10.0%	ELYMUS VIRGINICUS, PA ECOTYPE	VIRGINIA WILDRYE, PA ECOTYPE	
9.4%	ECHINACEA PURPUREA	PURPLE CONEFLOWER	
6.0%	DELPHINIUM AJACIS	ROCKET LARKSPUR	
6.0%	CENTAUREA CYANUS, TALL MIXED	BACHELOR'S BUTTON TALL MIXED/CORNFLOWER	
6.0%	COREOPSIS LANCEOLATA	LANCELEAF COREOPSIS	
6.0%	RUBECKIA HIRTA	BLACKEYED SUSAN	
5.0%	DIANTHUS BARBATUS	SWEETWILLIAM	
4.0%	CHRYSANTHEMUM MAXIMUM	SHASTA DAISY	
2.2%	BAPTISIA AUSTRALIS, SOUTHERN WV ECOTYPE	BLUE FALS INDIGO, SOUTHERN WV ECOTYPE	
2.0%	LIATRIS SPICATA	MARSH BLAZING STAR	
1.4%	HELIOPSIS HELIANTHOIDES, PA ECOTYPE	OXEYE SUNFLOWER, PA ECOTYPE	
1.2%	ASCLEPIAS TUBEROSA, PA ECOTYPE	BUTTERFLY MILKWEED, PA ECOTYPE	
1.1%	PHYCNANTHEMUM TENUIFOLIUM	NARROWLEAF MOUNTAINMINT	
1.0%	ASCLEPIAS INCARNATA, PA ECOTYPE	SWAMP MILKWEED, PA ECOTYPE	
1.0%	ERYNGIUM YUCCIFOLIUM, OH ECOTYPE	RATTLESNAKE MASTER, OH ECOTYPE	
1.0%	ESCHSCHOLZIA CALIFORNICA	CALIFORNIA ORANGE POPPY	
1.0%	PAPAVER RHOEAS, RED	CORN POPPY, RED	
1.0%	RATIBIDA PINNATA, OH ECOTYPE	GREY HEADED CONEFLOWER, OH ECOTYPE	
0.8%	PENSTEMON DIGITALIS, PA ECOTYPE	TALL WHITE BEARDTONGUE, PA ECOTYPE	
0.7%	COREOPSIS TINCTORIA	PLANS COREOPSIS	
0.6%	ZIZIA AUREA, PA ECOTYPE	GOLDEN ALEXANDERS, PA ECOTYPE	
0.5%	ERAGROSTIS SPECTABILIS, RI ECOTYPE	PURPLE LOVEGRASS, RI ECOTYPE	
0.5%	MONARDA FISTULOSA, FORT INDIANTOWN GAP-PA ECOTYPE	WILD BERGAMOT, FORT INDIANTOWN GAP-PA ECOTYPE	
0.4%	SOLIDAGO NEMORALIS, PA ECOTYPE	GRAY GOLDENROD, PA ECOTYPE	
0.4%	TRADESCANTIA OHIENSIS, PA ECOTYPE	OHIO SPIDERWORT, PA ECOTYPE	
0.3%	ASTER OBLONGIFOLIUS, PA ECOTYPE	AROMATIC ASTER, PA ECOTYPE	
0.2%	ASTER LAEVIS, NY ECOTYPE	SMOOTH BLUE ASTER, NY ECOTYPE	
0.2%	ASTER NOVAE-ANGLIAE, PA ECOTYPE	NEW ENGLAND ASTER, PA ECOTYPE	
0.2%	OENOTHERA FRUTICOSA VAR. FRUTICOSA	SUNDROPS	
0.1%	ASTER PILOSUS, PA ECOTYPE	HEATH ASTER, PA ECOTYPE	
0.1%	SOLIDAGO BICOLOR, PA ECOTYPE	WHITE GOLDENROD, PA ECOTYPE	
0.1%	SOLIDAGO ODORA, PA ECOTYPE	LICORICE SCENTED GOLDENROD, PA ECOTYPE	

\*AREAS OUTSIDE OF FENCE TO BE SEEDDED WITH ERNMx-179 OR OWNER APPROVED EQUAL AT A RATE OF 30 LB PER ACRE. BETWEEN DECEMBER 1ST THROUGH APRIL 1ST, EACH TYPE OF SEED SHALL HAVE AN ADDITIONAL 1 LB PER 1,000 SF OF WINTER RYEGRASS OR GRASS SEED INCLUDED

ERNST SOLAR FARM - CONSERVATION SHADE MIX (ERNMX - 129)*			
QUANTITY	SPECIES	COMMON	APPLICATION RATE
30%	FESTUCA RUBRA	CREEPING RED FESCUE	5 LB PER 1,000 SF
30%	FESTUCA RUBRA SSP. COMMUTATA	CHEWINGS FESCUE	
20%	LOLIUM MULTIFLORUM	ANNUAL RYEGRASS	
10%	POA PRATENSIS, "MAVERICK"	KENTUCKY BLUEGRASS, "MAVERICK"	
10%	POA TRIVIALIS	ROUGH BLUEGRASS	

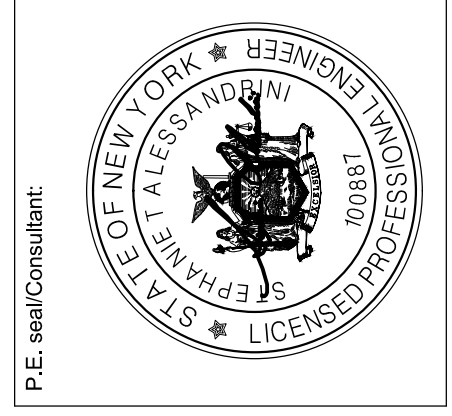
\*PERMEABLE AREAS BETWEEN AND BENEATH PANELS TO BE SEEDDED WITH ERNMx-129 AND REBEL TALL FESCUE, CHEWINGS FESCUE, OR HARD FESCUE, OR OWNER APPROVED EQUAL AT A RATE OF 5 LB PER 1,000 SF. BETWEEN DECEMBER 1ST THROUGH APRIL 1ST, EACH TYPE OF SEED SHALL HAVE AN ADDITIONAL 1 LB PER 1,000 SF OF WINTER RYEGRASS OR GRASS SEED INCLUDED



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Rev	Issued For	Date
A	PRELIM PLAN SET	5/22/2023
B	INTERNAL COMMENTS	8/10/2023
C	INTERNAL COMMENTS	9/15/2023



**WILSON HILL SOLAR**  
 469 Wilson Hill Road  
 Hoosick Falls, NY 12090

**PLANTING PLAN**  
 NOT FOR CONSTRUCTION  
 Drawn by: BMW Scale: As Shown Approved by: STA

Dwg No: **L-100** Size: D Sheet Rev: **C**

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