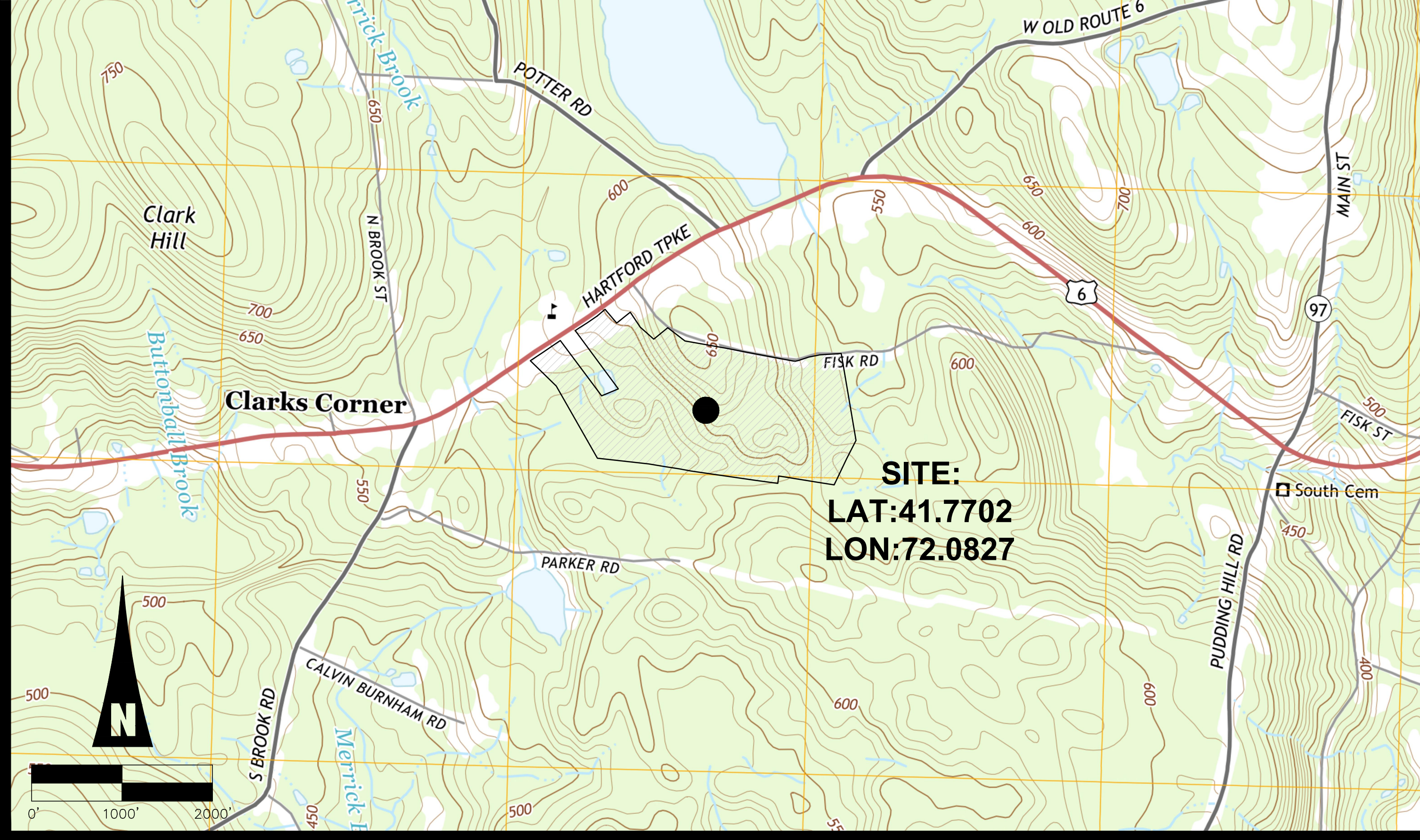


FISK ROAD SOLAR CONNECTICUT SITING BOARD DOCUMENTS

FOR
Site/Electrical Layout, Grading/Drainage/Erosion Control/Landscaping
IN
HAMPTON, CONNECTICUT

LOCATION MAP



SHEET INDEX

●	11/4/2019	1	COVER SHEET
●	1/30/2019	2	ALTA SURVEY (BY HELLSTROM L.S. LLC)
●	1/30/2019	3	ALTA SURVEY (BY HELLSTROM L.S. LLC)
●	11/4/2019	4	OVERALL SITE PLAN
●	11/4/2019	5	NORTH REMOVAL & EROSION CONTROL PLAN - 1"=60'
●	1/30/2019	5A	NORTH REMOVAL & EROSION CONTROL PLAN - 1"=60'
●	1/30/2019	6	SOUTH REMOVAL & EROSION CONTROL PLAN - 1"=60'
●	1/30/2019	7	DRAINAGE AREA 1 - SEDIMENT TRAP & WATER QUALITY BASIN
●	1/30/2019	8	DRAINAGE AREA 2 - SEDIMENT TRAP & WATER QUALITY BASIN
●	1/30/2019	9	DRAINAGE AREA 3 - SEDIMENT TRAP & WATER QUALITY BASIN
●	1/30/2019	10	DRAINAGE AREA 4 - SEDIMENT TRAP & WATER QUALITY BASIN
●	1/30/2019	11	DRAINAGE AREA 5 - SEDIMENT TRAP & WATER QUALITY BASIN
●	1/30/2019	12	DRAINAGE AREA 6 - SEDIMENT TRAP & WATER QUALITY BASIN
●	1/30/2019	13	DRAINAGE AREA 7- SEDIMENT TRAP & WATER QUALITY BASIN
●	11/4/2019	14	DRAINAGE AREA 8 - SEDIMENT TRAP & WATER QUALITY BASIN
●	11/4/2019	15	OVERALL LANDSCAPE PLAN
●	1/30/2019	16	CIVIL NOTES
●	1/30/2019	17	CIVIL DETAILS

DRAWING INDEX LEGEND

○ - X/XX/201X X SHEET TITLE
 FILLED CIRCLE INDICATES DRAWING INCLUDED WITHIN THIS ISSUE
 MOST RECENT REVISION NUMBER
 MOST RECENT ISSUE OR REVISION DATE

CONTACT INFO:

RECORD LANDOWNER:
PLH, LLC
77 WATER STREET
8TH FLOOR
NEW YORK, NY 10005

OWNER/DEVELOPER:
ECOS ENERGY
222 SOUTH 9TH STREET
SUITE 1600
MINNEAPOLIS, MN 55402

CIVIL ENGINEER:
CLA ENGINEERS, INC.
317 MAIN STREET
NORWICH, CT 06360

SURVEYOR:
ROB HELLSTROM LAND SURVEYING LLC
32 MAIN STREET
HEBRON, CT 06248

WETLAND DELINEATION:
HIGHLAND SOILS LLC
P.O.BOX 337
STORRS, CT 06268

		CLA Engineers, Inc. CIVIL • STRUCTURAL • SURVEYING	
		317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165	
No.	DATE	REVISION	390 Hartford Turnpike Hampton, Connecticut
			Project No. CLA-6162
			Proj. Engineer E.B.
			Date: 01/30/19
			Sheet No. 1
			FISK ROAD SOLAR
			COVER SHEET

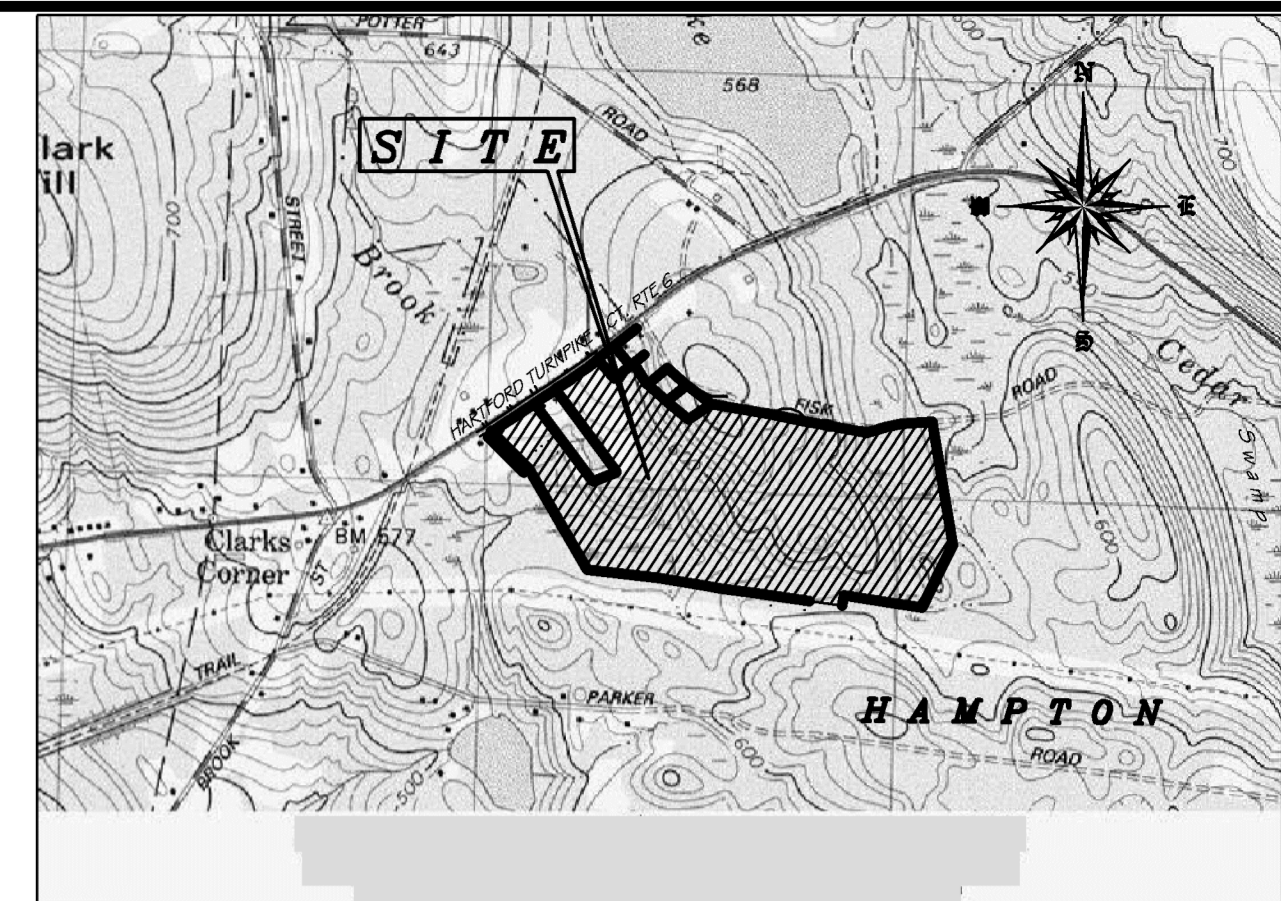
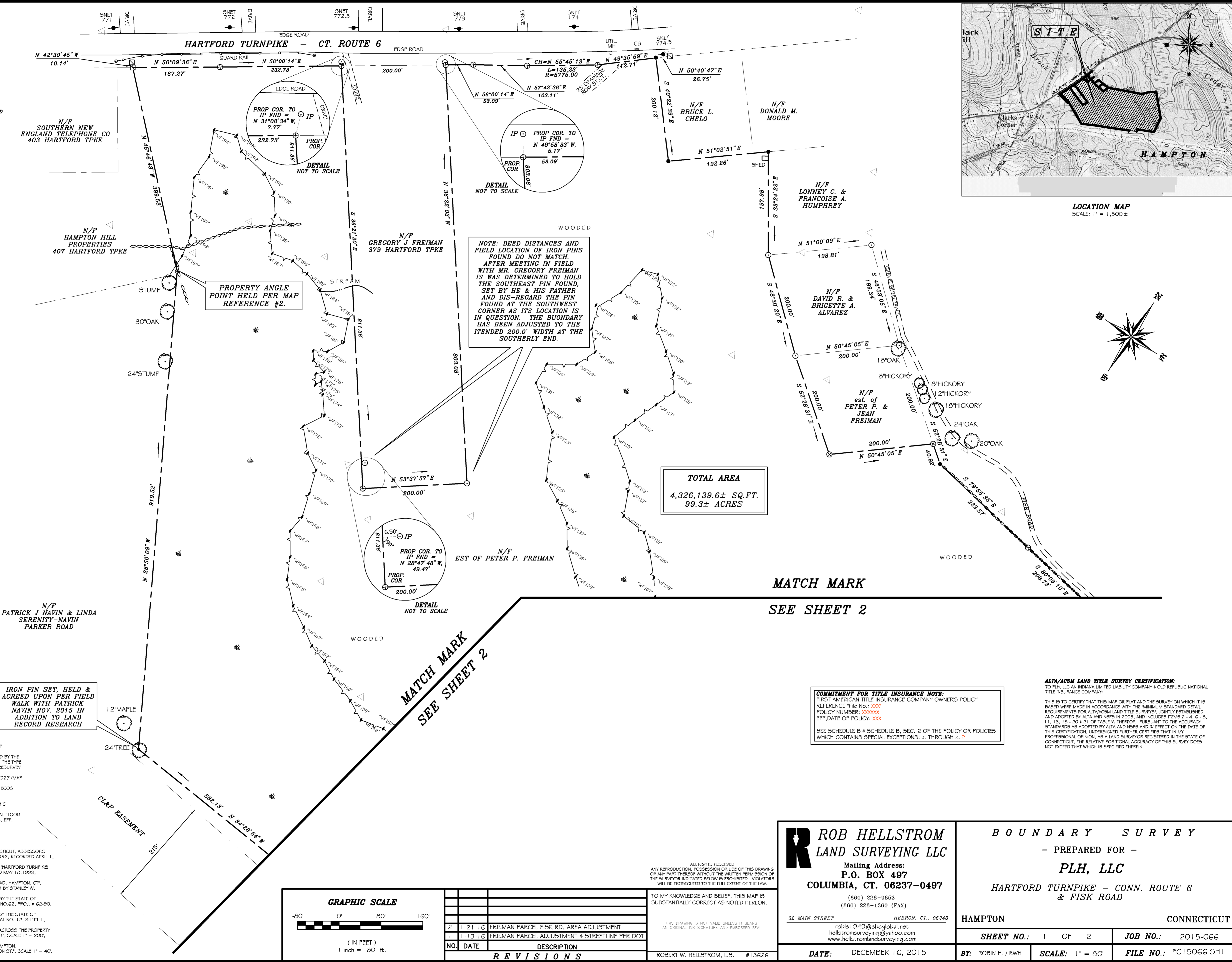
LEGEND

- PROPERTY LINE
- STONE WALL
- GUARDRAIL
- ANGLE POINT
- IRON PIN OR PIPE FOUND
- 5/8" REBAR SET
- DRILL HOLE SET
- CHD MONUMENT FOUND
- SURVEYOR CONTROL POINT
- TREES SHOWN ARE WITH WIRE AND ARE AS MARKED

ZONING TABLE TOWN OF HAMPTON

ZONE B - BUSINESS DISTRICT

MIN. LOT AREA = 50,000 SQ. FT.
MIN. LOT WIDTH = 150'
BUILDING SETBACKS: FRONT YARD = 75' SIDE YARD = 25/50' REAR YARD = 50'
MAXIMUM BUILDING COVERAGE = 25%
MAXIMUM BUILDING HEIGHT = 40'



I HEREBY DECLARE THAT THE WETLANDS SHOWN ON THIS MAP (PLAN) ARE SUBSTANTIALLY CORRECT.

JOHN IANNI
SOIL SCIENTIST

IRON PIN SET, HELD & AGREED UPON PER FIELD WALK WITH PATRICK NAVIN NOV. 2015 IN ADDITION TO LAND RECORD RESEARCH

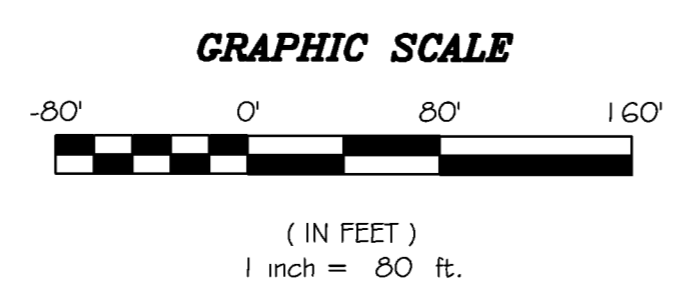
MAP STANDARD NOTES:

- THIS SURVEY (OR MAP) HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THRU 20-300b-20 AND THE STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. THE TYPE OF SURVEY IS A BOUNDARY SURVEY. BOUNDARY DETERMINATION IS BASED ON A RESURVEY OF PROPERTY AND CONFORMS TO THE "A-2" CLASS OF ACCURACY.
- HORIZONTAL DATUM IS BASED ON GRID NORTH, CONNECTICUT GRID SYSTEM, NAD27 (MAP REFERENCE #6).
- TOPOGRAPHIC FEATURES WERE PREPARED IN ACCORDANCE WITH CLASS T-D PER ECOS ENGINEERS, 1 FOOT INTERVAL CONTOURS.
- PARCEL IS ZONED C-1 VILLAGE COMMERCIAL DISTRICTS.
- THE INTENDED PURPOSE OF THIS MAP/SURVEY IS TO DEMONSTRATE TOPOGRAPHIC FEATURES, WETLAND LOCATION AND TOPOGRAPHY RELATIVE TO THE BOUNDARY.
- PARCELS ARE NOT LOCATED IN A FLOOD ZONE AS DETERMINED PER THE NATIONAL FLOOD INSURANCE PROGRAM, FIRM, WINDHAM COUNTY, COMMUNITY #090170, PANEL #5, EFF. DATE DEC. 4, 1995.

CRISWOLD TOWN PARCEL REFERENCE:
TOWN OF HAMPTON LOT 5.6, VOL. 66/Pg. 414

MAP REFERENCES:

- "LOT PLAN PREPARED FOR FELIX WINTERS, OLD FISKE ROAD, HAMPTON, CONNECTICUT, 3855500RS PARCEL NO. 151, SCALE 1" = 20', PROJ.#067-104, SHEET 1, REVISED TO DEC. 6, 1992, RECORDED APRIL 1, 1993 BY MESSIER & ASSOCIATES.
- "SITE PLAN PREPARED FOR HAMPTON HILL GARAGE, LLC, CONNECTICUT ROUTE 6 (HARTFORD TURNPIKE) HAMPTON, CONNECTICUT, SCALE 1" = 100' (AS NOTED), JOB #98-06-02, DATED MAY 18, 1999, REVISED TO AUG. 10, 1999 BY DATUM ENGINEERING & SURVEYING, LLC.
- "COMPILED PLAN PREPARED FOR CORDLESS DATA TRANSFER, INC., FISKE ROAD, HAMPTON, CT, SCALE 1" = 200', SHEET 1 OF 4, DATED NOV. 12, 1998, REVISED TO JUL. 3, 1999 BY STANLEY W. SZESTOWSKI.
- "TOWN OF HAMPTON, MAP SHOWING LAND ACQUIRED FROM PETER P. FREIMAN BY THE STATE OF CONNECTICUT, DEPT. OF TRANSPORTATION, U.S. ROUTE 6, SCALE 1" = 40', TOWN NO.62, PROJ. # 62-90, SERIAL NO. 2, SHEET 1, DATED OCT. 1991, REVISED TO MAR. 25, 1992.
- "TOWN OF HAMPTON, MAP SHOWING LAND ACQUIRED FROM PETER P. FREIMAN BY THE STATE OF CONNECTICUT, U.S. ROUTE 6, SCALE 1" = 40', TOWN NO.62, PROJ. # 62-90, SERIAL NO. 12, SHEET 1, DATED OCT. 1991, REVISED TO MAY 1, 1992.
- "LOCATION OF RIGHT OF WAY OF THE CONNECTICUT LIGHT & POWER COMPANY, ACROSS THE PROPERTY OF PAUL NAVIN, TOWN OF HAMPTON COUNTY OF WINDHAM, STATE OF CONNECTICUT, SCALE 1" = 200', SHEET 1 & 2 OF 2, DATED OCT. 1966.
- "CONNECTICUT STATE HIGHWAY DEPARTMENT, RIGHT OF WAY MAP, TOWN OF HAMPTON, WILLIAMTIC-HAMPTON ROAD, FROM THE CHAPLIN TOWN LINE EASTWY TO HAMPTON ST., SCALE 1" = 40', NO. 62-04, SHEET 1A, DATED NOV. 5, 1957, REVISED TO OCT. 10, 1966.



NO.	DATE	DESCRIPTION
2	1-21-16	FREIMAN PARCEL FISKE RD, AREA ADJUSTMENT
1	1-13-16	FREIMAN PARCEL ADJUSTMENT & STREETLINE PER DOT

REVISIONS

ROBERT W. HELLSTROM, L.S. #13626

ROB HELLSTROM
LAND SURVEYING LLC

Mailing Address:
P.O. BOX 497
COLUMBIA, CT. 06237-0497

(860) 228-9853
(860) 228-1360 (FAX)

32 MAIN STREET HEBRON, CT., 06248

robls1949@sbcglobal.net
hellstromsurveying@yahoo.com
www.hellstromlandsurveying.com

DATE: DECEMBER 16, 2015

BOUNDARY SURVEY
- PREPARED FOR -
PLH, LLC
HARTFORD TURNPIKE - CONN. ROUTE 6
& FISKE ROAD

HAMPTON CONNECTICUT

SHEET NO.: 1 OF 2
JOB NO.: 2015-066

BY: ROBIN H. / RWH
SCALE: 1" = 80'
FILE NO.: EC15066 SH1

COMMITMENT FOR TITLE INSURANCE NOTE:
FIRST AMERICAN TITLE INSURANCE COMPANY OWNERS POLICY
REFERENCE "File No.": XXXX
POLICY NUMBER: XXXXXX
EFF. DATE OF POLICY: XXXX

SEE SCHEDULE B & SCHEDULE B, SEC. 2 OF THE POLICY OR POLICIES WHICH CONTAINS SPECIAL EXCEPTIONS: a. THROUGH c. ?

ALTA/ACSM LAND TITLE SURVEY CERTIFICATION:
TO PLH, LLC AN INDIANA LIMITED LIABILITY COMPANY & OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY:

THIS IS TO CERTIFY THAT THIS MAP OR PLAN AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS IN 2005, AND INCLUDES ITEMS 2 - 4, 6 - 8, 11, 13, 18 - 20 & 21 OF TABLE "T" THEREOF. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA AND NSPS AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF CONNECTICUT, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

MAP STANDARD NOTES:

1. THIS SURVEY (OR MAP) HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THRU 20-300b-20 AND THE STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. THE TYPE OF SURVEY IS A BOUNDARY SURVEY. BOUNDARY DETERMINATION IS BASED ON A RESURVEY OF PROPERTY AND CONFORMS TO THE A-2 CLASS OF ACCURACY.
2. HORIZONTAL DATUM IS BASED ON GRID NORTH, CONNECTICUT GRID SYSTEM, NAD27 (MAP REFERENCE #6).
3. TOPOGRAPHIC FEATURES WERE PREPARED IN ACCORDANCE WITH CLASS T-D PER EGCS ENGINEERS, 1 FOOT INTERVAL CONTOURS.
4. PARCEL IS ZONED C-1 VILLAGE COMMERCIAL DISTRICTS.
5. THE INTENDED PURPOSE OF THIS MAP/SURVEY IS TO DEMONSTRATE TOPOGRAPHIC FEATURES, WETLAND LOCATION AND TOPOGRAPHY RELATIVE TO THE BOUNDARY.
6. PARCELS ARE NOT LOCATED IN A FLOOD ZONE AS DETERMINED PER THE NATIONAL FLOOD INSURANCE PROGRAM, FRM, WINDHAM COUNTY, COMMUNITY #090170, PANEL #5, EFF. DATE DEC. 4, 1985.

GRISWOLD TOWN PARCEL REFERENCE:
TOWN OF HAMPTON LOT 5.6, VOL. 66 / PG. 414

MAP REFERENCES:

1. "LOT PLAN PREPARED FOR FELIX WINTERS, OLD FISKE ROAD, HAMPTON, CONNECTICUT, ASSESSORS PARCEL NO. 15, SCALE 1" = 20', PROJ.#07-104, SHEET 1, REVISED TO DEC. 8, 1992, RECORDED APRIL 1, 1993 BY MESSIER & ASSOCIATES.
2. "SITE PLAN PREPARED FOR HAMPTON HILL GARAGE, LLC, CONNECTICUT ROUTE 6 (HARTFORD TURNPIKE) HAMPTON, CONNECTICUT, SCALE 1" = 100' (or AS NOTED), JOB #90-06-02, DATED MAY 18, 1999, REVISED TO AUG. 10, 1999 BY DATUM ENGINEERING & SURVEYING, LLC.
3. "COMPILED PLAN PREPARED FOR CORDELLS DATA TRANSFER, INC., FISKE ROAD, HAMPTON, CT, SCALE 1" = 200', SHEET 1 OF 4, DATED NOV. 12, 1996, REVISED TO JUL. 3, 1999 BY STANLEY W. SZESTOWSKI.
4. "TOWN OF HAMPTON, MAP SHOWING LAND ACQUIRED FROM PETER P. FREIMAN BY THE STATE OF CONNECTICUT, DEPT. OF TRANSPORTATION, U.S. ROUTE 6, SCALE 1" = 40', TOWN NO.62, PROJ. # 62-90, SERIAL NO. 2, SHEET 1, DATED OCT. 1991, REVISED TO MAR. 25, 1992.
5. "TOWN OF HAMPTON, MAP SHOWING LAND ACQUIRED FROM PETER P. FREIMAN BY THE STATE OF CONNECTICUT, U.S. ROUTE 6, SCALE 1" = 40', TOWN NO.62, PROJ. # 62-90, SERIAL NO. 12, SHEET 1, DATED OCT. 1991, REVISED TO MAY 1, 1992.
6. "LOCATION OF RIGHT OF WAY OF THE CONNECTICUT LIGHT & POWER COMPANY, ACROSS THE PROPERTY OF PAUL NAVIN, TOWN OF HAMPTON COUNTY OF WINDHAM, STATE OF CONNECTICUT, SCALE 1" = 200', SHEET 1 & 2 OF 2, DATED OCT. 1968.
7. "CONNECTICUT STATE HIGHWAY DEPARTMENT, RIGHT OF WAY MAP, TOWN OF HAMPTON, WILLAMANTIC-HAMPTON ROAD, FROM THE CHARTER TOWN LINE EASTERLY TO HAMPTON ST., SCALE 1" = 40', NO. 62-04, SHEET 1A, DATED NOV. 5, 1957, REVISED TO OCT. 10, 1968.

LEGEND

- PROPERTY LINE
- STONE WALL
- GUARDRAIL
- ANGLE POINT
- IRON PIN OR PIPE FOUND
- 5/8" REBAR SET
- DRILL HOLE SET
- △ CHD MONUMENT FOUND
- △ SURVEYOR CONTROL POINT
- △ "BOUNDARY" PLACARD PLACED ON TREES WITH WIRE HELD FOR BOUNDARY
- TREES SHOWN ARE WITH WIRE AND ARE AS MARKED

I HEREBY DECLARE THAT THE WETLANDS SHOWN ON THIS MAP (PLAN) ARE SUBSTANTIALLY CORRECT.

JOHN IANNI
SOIL SCIENTIST

SEE SHEET 1
MATCH MARK

WOODED

N/F
EST OF PETER P. FREIMAN

COMMITMENT FOR TITLE INSURANCE NOTE:
FIRST AMERICAN TITLE INSURANCE COMPANY OWNERS POLICY
REFERENCE FILE NO.: XXX
POLICY NUMBER: XXXXXX
EFF. DATE OF POLICY: XXX

SEE SCHEDULE B & SCHEDULE B, SEC. 2 OF THE POLICY OR POLICIES WHICH CONTAINS SPECIAL EXCEPTIONS: a. THROUGH c. ?

ALTA/ACSM LAND TITLE SURVEY CERTIFICATION:
TO PLH, LLC AN INDIANA LIMITED LIABILITY COMPANY & OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY:

THIS IS TO CERTIFY THAT THIS MAP OR PLAN AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA AND NSPS IN 2005, AND INCLUDES ITEMS 2 - 4, 6 - 8, 11, 13, 18 - 20 & 21 OF TABLE A THEREOF. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA AND NSPS AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF CONNECTICUT, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

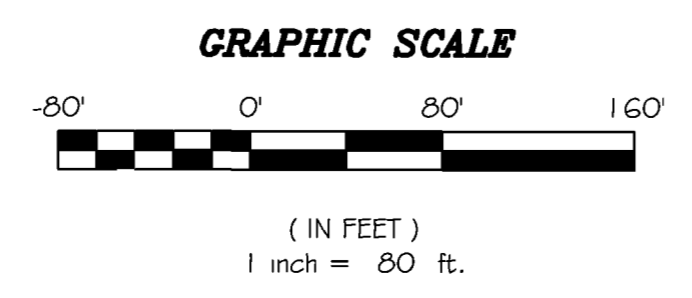
TOTAL AREA
4,326,139.6± SQ.FT.
99.3± ACRES

SEE SHEET 1
MATCH MARK

CL&P EASEMENT

EDGE C.L.&P. EASEMENT

N/F
PATRICK J NAVIN & LINDA
SERENITY-NAVIN
PARKER ROAD



NO.	DATE	DESCRIPTION
2	1-21-16	FREIMAN PARCEL FISKE RD. AREA ADJUSTMENT
1	1-13-16	FREIMAN PARCEL ADJUSTMENT & STREETLINE PER DOT
REVISIONS		

ALL RIGHTS RESERVED
ANY REPRODUCTION, POSSESSION OR USE OF THIS DRAWING OR ANY PART THEREOF WITHOUT THE WRITTEN PERMISSION OF THE SURVEYOR INDICATED BELOW IS PROHIBITED. VIOLATORS WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

THIS DRAWING IS NOT VALID UNLESS IT BEARS AN ORIGINAL INK SIGNATURE AND EMBOSSED SEAL.

ROBERT W. HELLSTROM, L.S. #13626

ROB HELLSTROM
LAND SURVEYING LLC

Mailing Address:
P.O. BOX 497
COLUMBIA, CT. 06237-0497

(860) 228-9853
(860) 228-1360 (FAX)

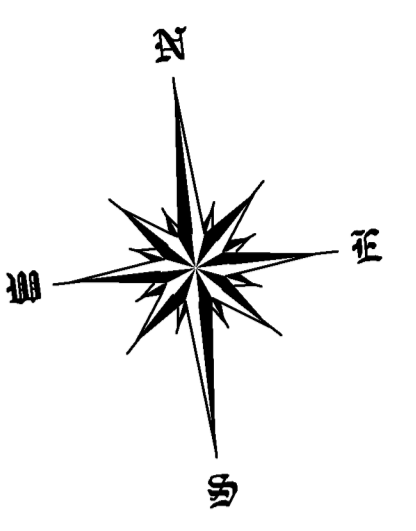
32 MAIN STREET HEBRON, CT., 06248
robs1949@sbclglobal.net
hellstromsurveying@yahoo.com
www.hellstromlandsurveying.com

DATE: DECEMBER 16, 2015

BOUNDARY SURVEY
- PREPARED FOR -
PLH, LLC
HARTFORD TURNPIKE - CONN. ROUTE 6
& FISKE ROAD

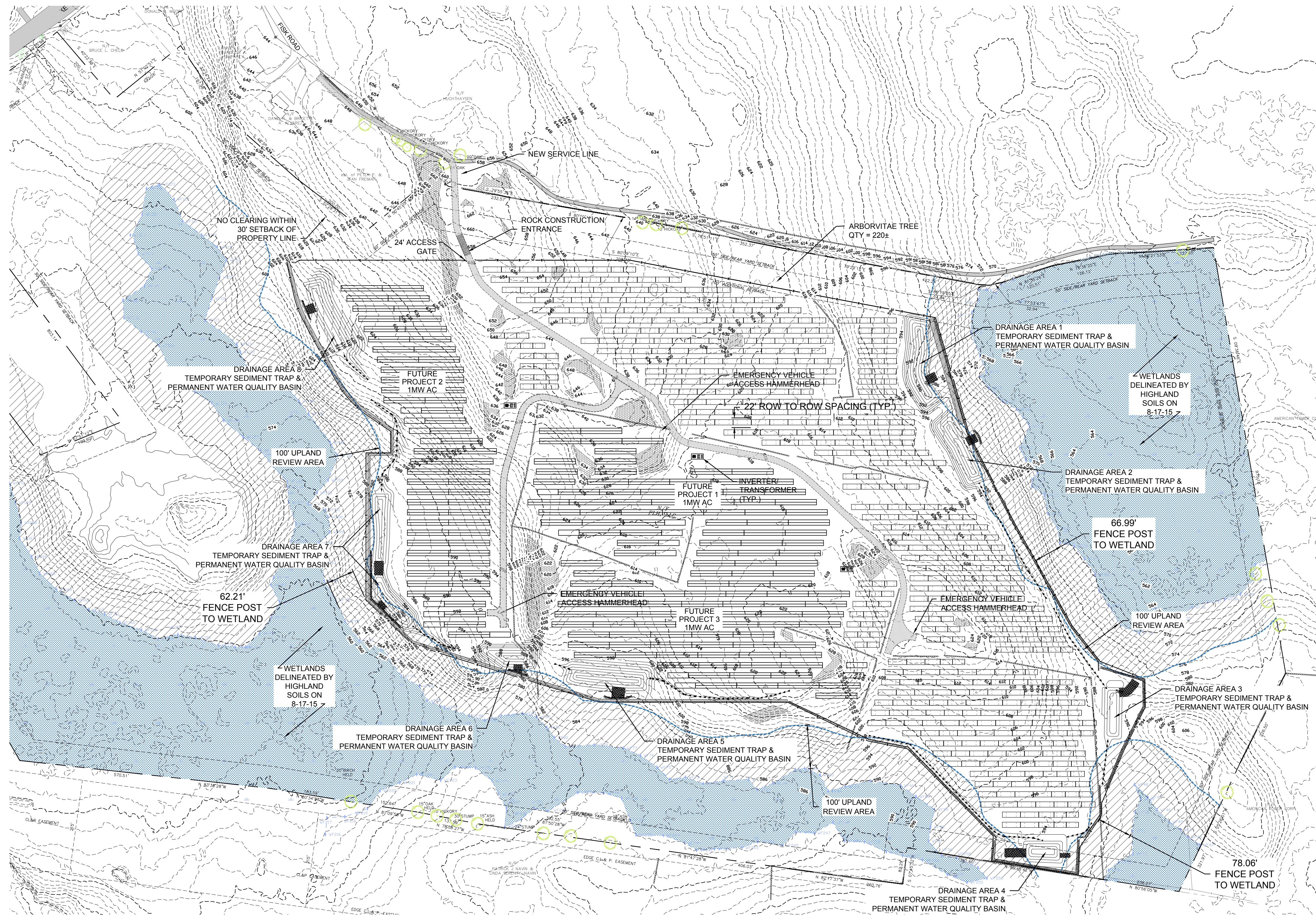
HAMPTON CONNECTICUT

SHEET NO.: 2 OF 2	JOB NO.: 2015-066
BY: ROBIN H. /RWH	SCALE: 1" = 80'
FILE NO.: EC15066 SH2	



N/F
HALMORA LLC
185 WEST FISKE ROAD

N/F
HALMORA LLC
185 WEST FISKE ROAD



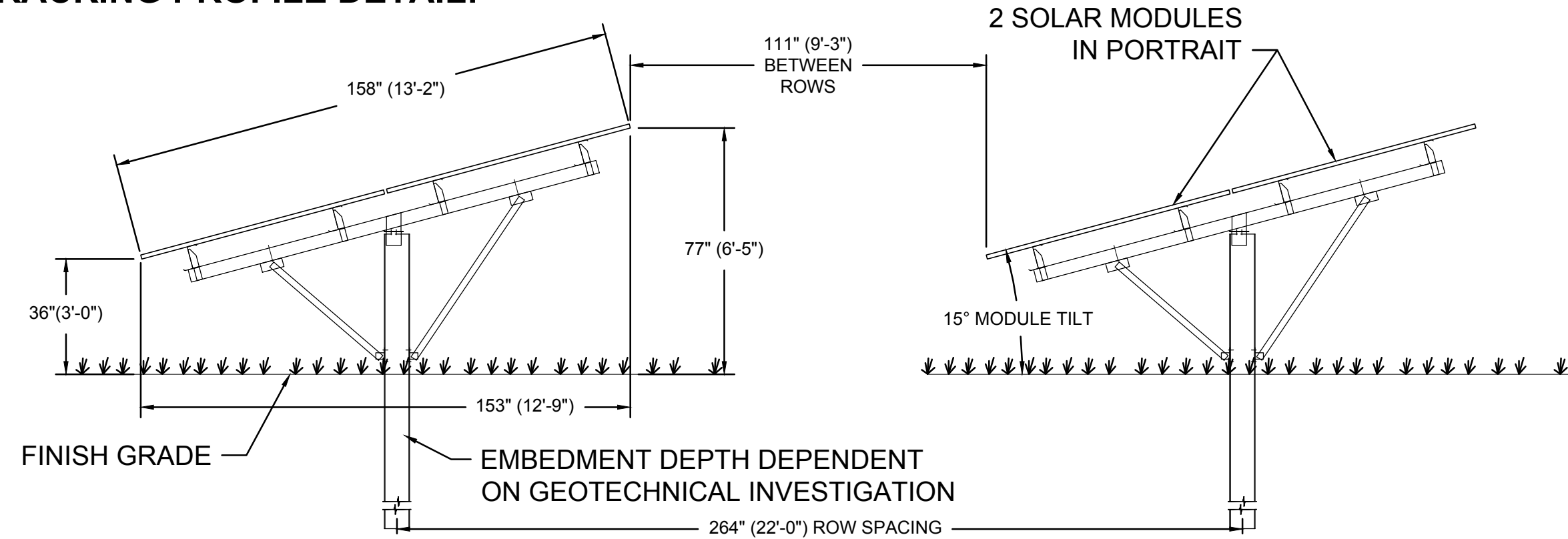
PROJECT AREAS & IMPACTS:

TOTAL SITE AREA = 99.29 ACRES PROJECT
 ARRAY FOOTPRINT= 34.8 ACRES (FULL PROJECT FENCE LINE LIMITS)
 TOTAL AREA OF DISTURBANCE= 35.4 ACRES

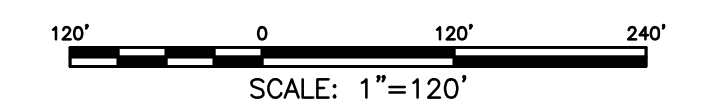
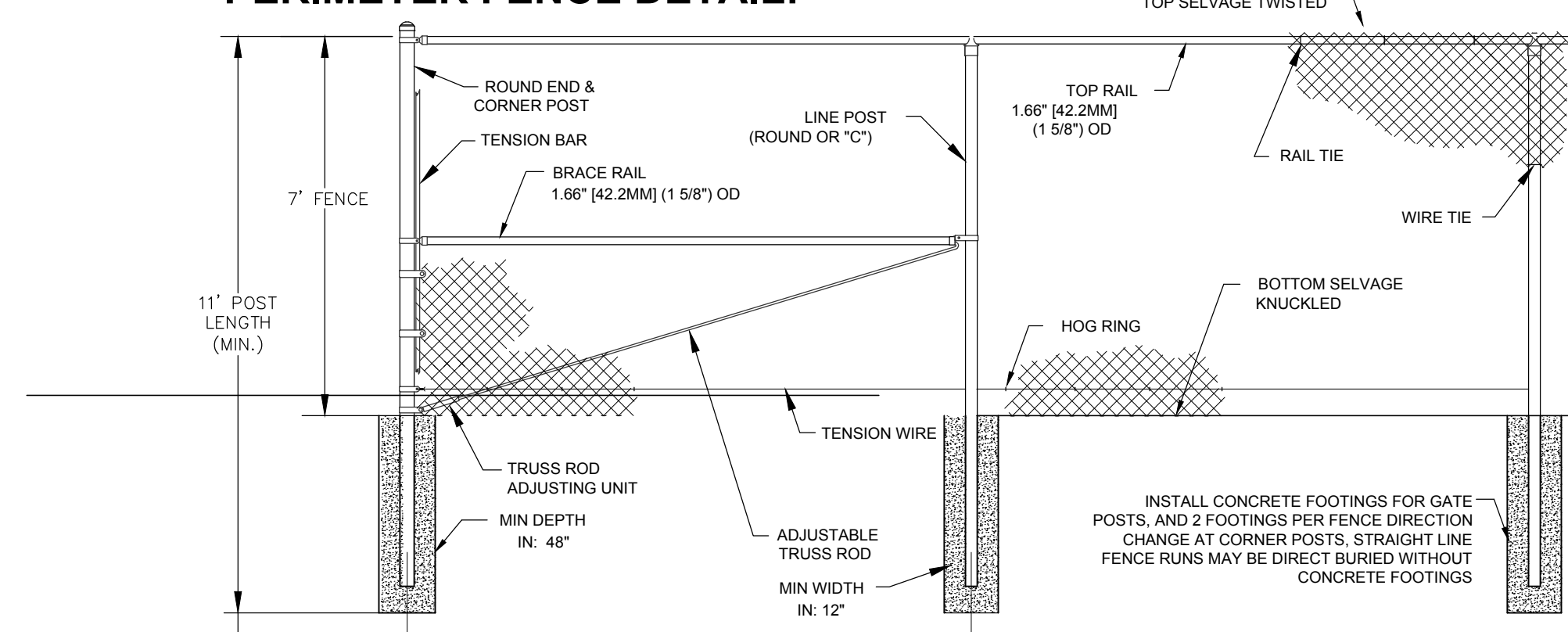
LEGEND:

- EXISTING PROPERTY LINE
- PROPOSED PROJECT FENCE
- PROPOSED GRAVEL ACCESS ROAD
- MV PROPOSED AC DISTRIBUTION
- 9 x 4 SOLAR MODULE BLOCK
- 100' WETLAND BUFFER AREA
- BEDROCK OUTCROP
- WETLAND DELINEATION LINE

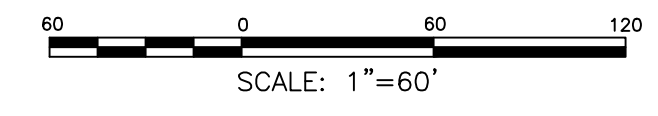
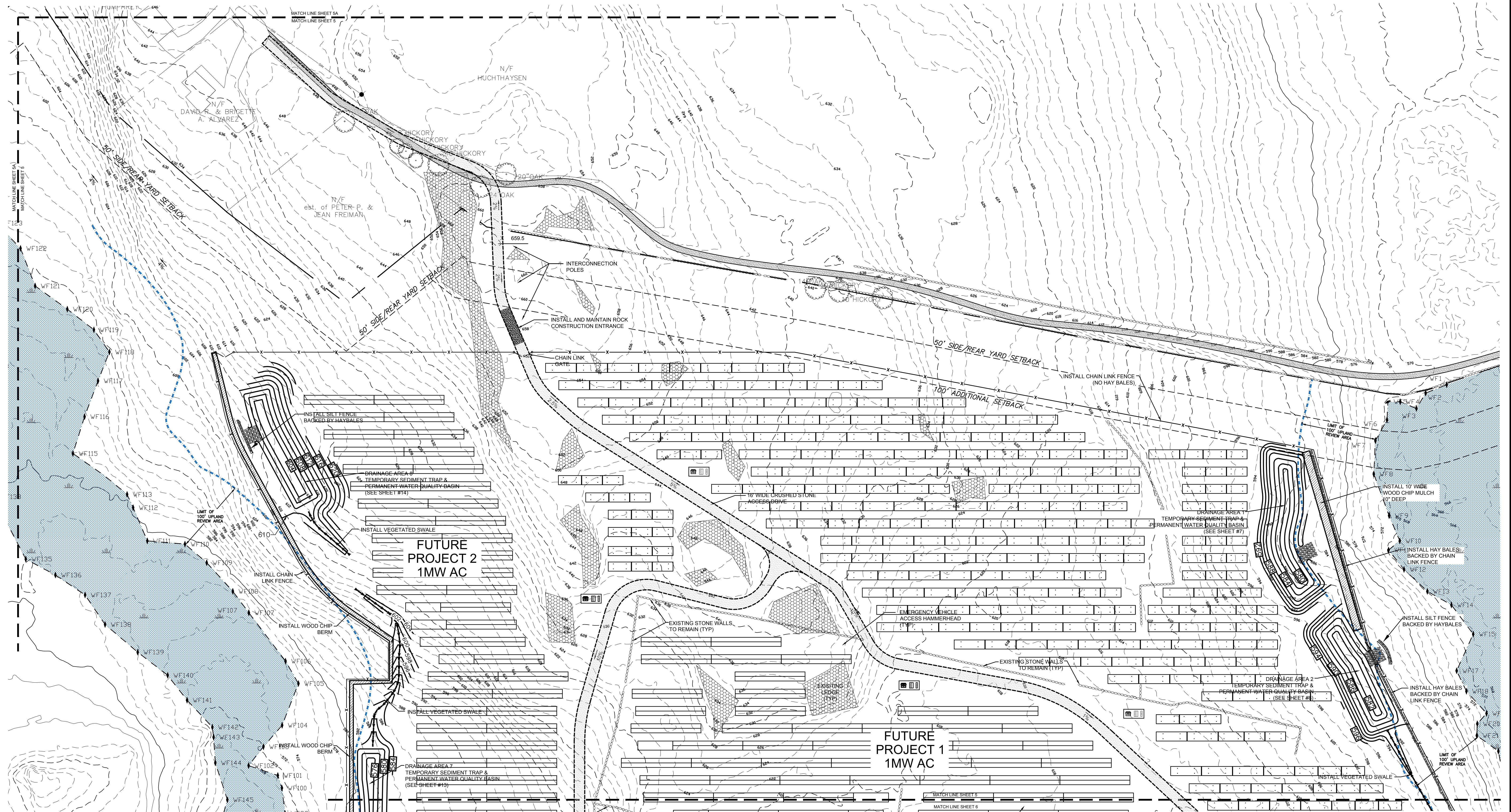
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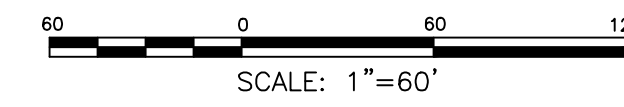
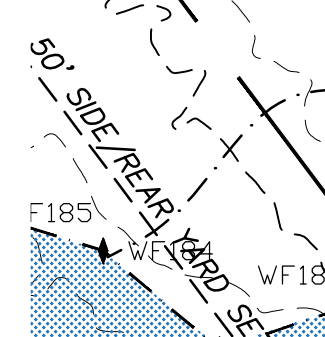
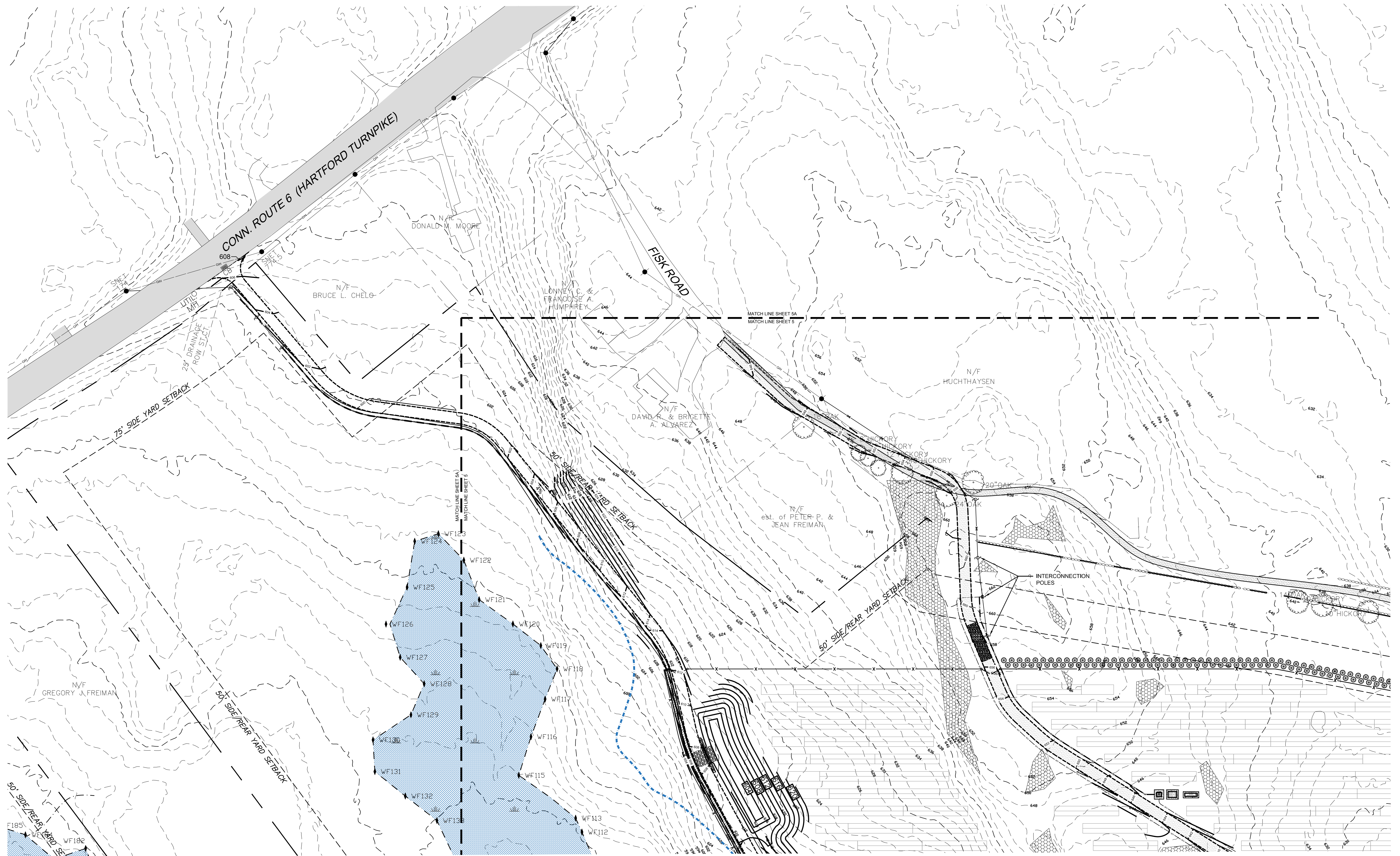
PERIMETER FENCE DETAIL:



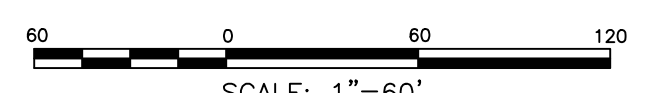
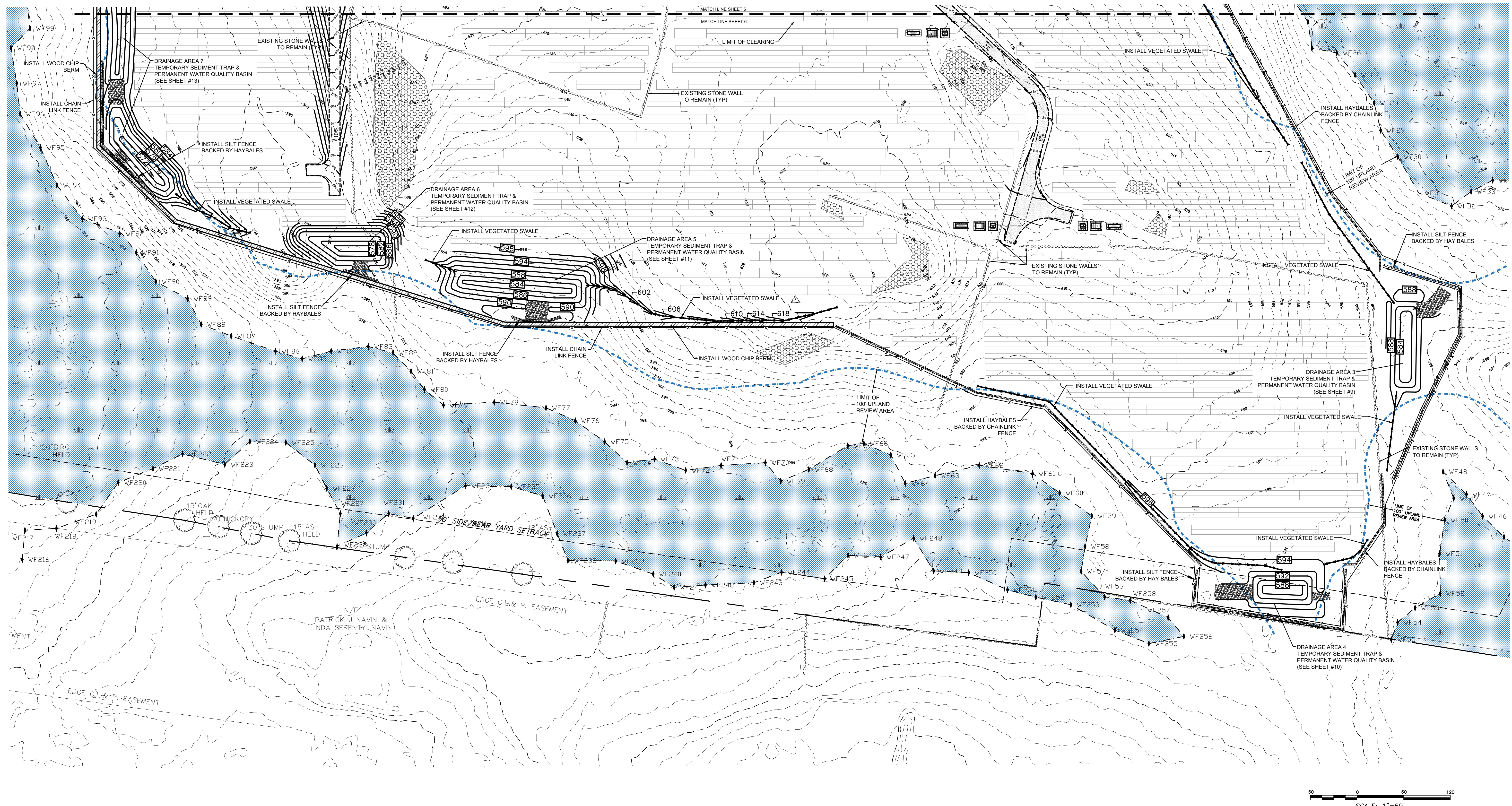
		CLA Engineers, Inc. CIVIL • STRUCTURAL • SURVEYING	
		317 Main Street Norwich, CT 06360 (860) 886-1986 Fax (860) 886-9165	
		390 Hartford Turnpike Hampton, Connecticut	
		FSK ROAD SOLAR	
		OVERALL SITE PLAN	
		Project No. CLA-6178 Proj. Engineer E.M.B. Date: 6/15/2018 Sheet No. 4	



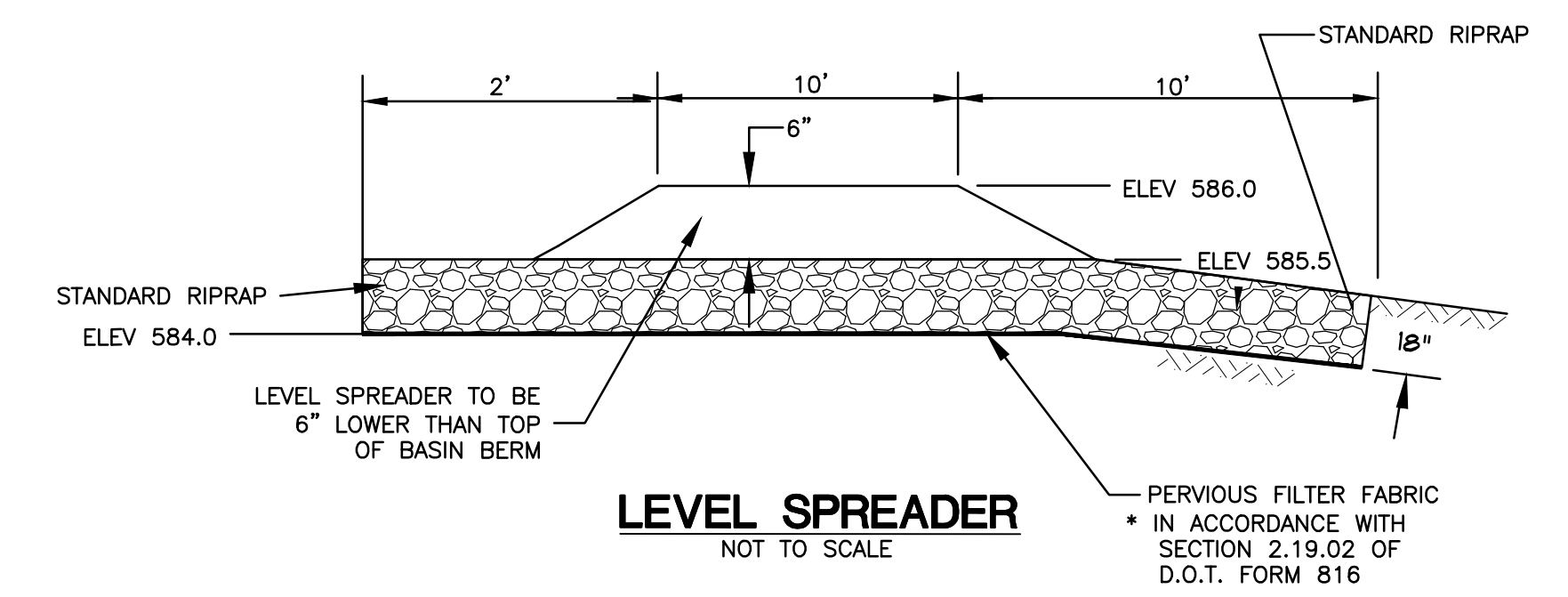
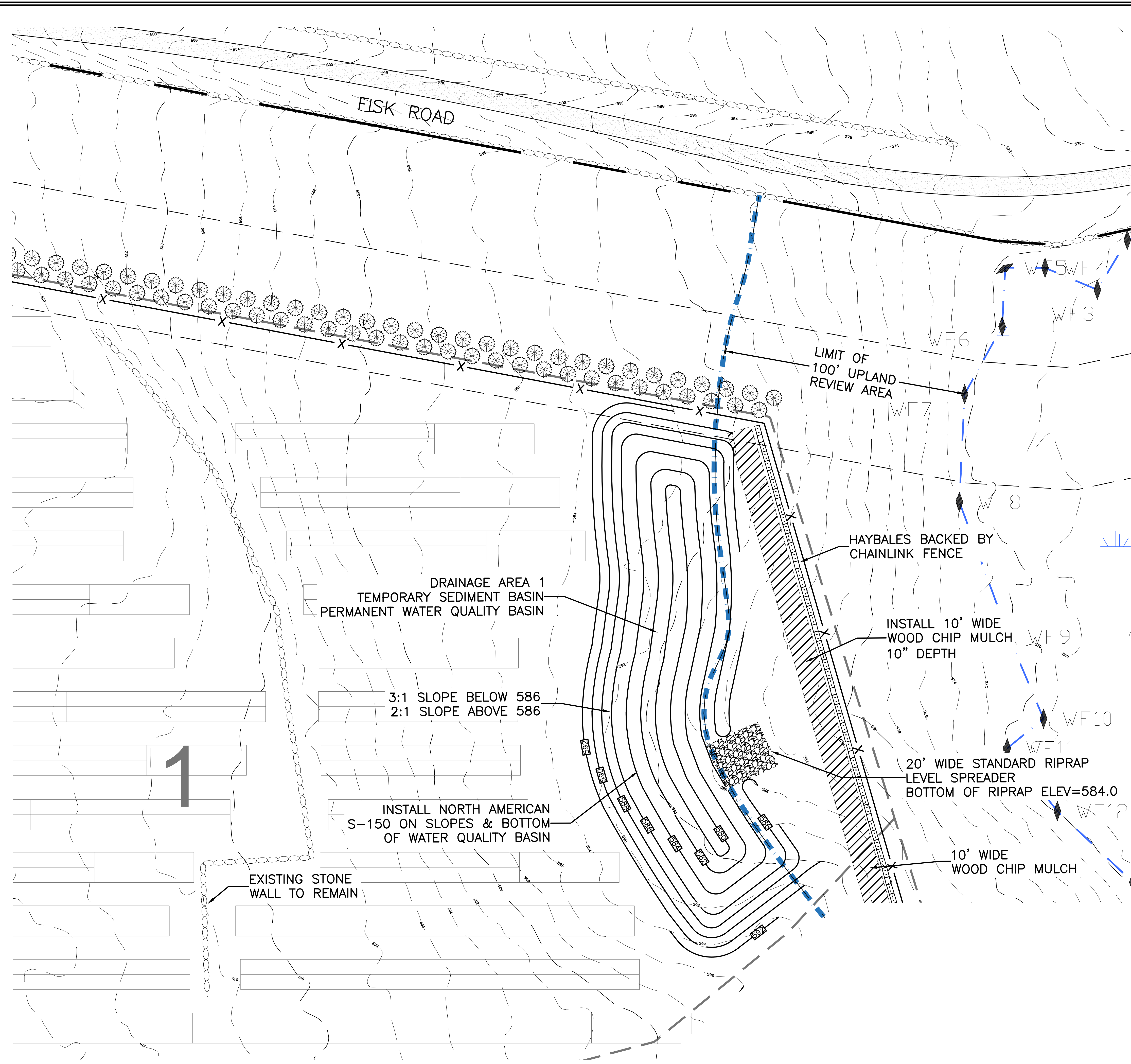
		CLA Engineers, Inc. CIVIL • STRUCTURAL • SURVEYING	
1	11/04/19	ELIMINATE ACCESS DRIVE	317 Main Street Norwich, CT 06380 (860) 886-1986 Fax (860) 886-9165
No.	DATE	REVISION	
390 Hartford Turnpike Hampton, Connecticut			Project No. CLA-6178
FIK ROAD SOLAR			Proj. Engineer E.M.B.
EROSION CONTROL PLAN			Date: 6/15/2018
			Sheet No. 5



CLA Engineers, Inc. CIVIL • STRUCTURAL • SURVEYING 317 Main Street Norwich, CT 06360 (860) 886-1986 Fax (860) 886-9165		Project No. CLA-6178
		Proj. Engineer E.M.B.
390 Hartford Turnpike Hampton, Connecticut		Date: 6/15/2018
FISK ROAD SOLAR		Sheet No. 5A
EROSION CONTROL PLAN		



		CLA Engineers, Inc. CIVIL • STRUCTURAL • SURVEYING	
		317 Main Street Hampton, Connecticut (860) 886-1986 Fax (860) 886-9165	
		Project No. CLA-6178	
		Proj. Engineer E.M.B.	
		Date: 6/15/2018	
		Sheet No. 6	
390 Hartford Turnpike Hampton, Connecticut		EROSION CONTROL PLAN	



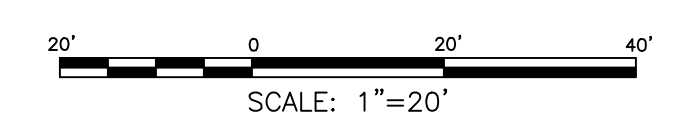
SEED MIX FOR STORMWATER TREATMENT BASIN
THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES
 CONTAINS A SELECTION OF NATIVE GRASSES AND WILDFLOWERS DESIGNED TO COLONIZE RECENTLY DISTURBED SITES WHERE QUICK GROWTH OF VEGETATION IS DESIRED TO STABILIZE THE SOIL SURFACE. IT IS AN EXCELLENT SEED MIX FOR ECOLOGICALLY APPROPRIATE RESTORATIONS ON MOIST SITES THAT REQUIRE QUICK STABILIZATION AS WELL AS LONG-TERM ESTABLISHMENT OF NATIVE VEGETATION. THIS MIX IS PARTICULARLY APPROPRIATE FOR DETENTION BASINS THAT DO NOT NORMALLY HOLD STANDING WATER. SOME PLANTS IN THIS MIX CAN TOLERATE INFREQUENT INUNDATION, BUT NOT CONSTANT FLOODING.

SEEDING: THE MIX MAY BE APPLIED BY HYDROSEEDING, BY MECHANICAL SPREADER, BY HYDRO-SEEDING OR ON SMALL SITES IT CAN BE SPREAD BY HAND. WHEN APPLYING ON BARE SOIL, RAKE THE SOIL TO CREATE GROOVES, APPLY SEED, THEN LIGHTLY RAKE OVER. IN NEW ENGLAND, THE BEST RESULTS ARE OBTAINED WITH A SPRING OR EARLY FALL SEEDING. SUMMER AND LATE FALL SEEDING WILL BENEFIT WITH A LIGHT MULCHING OF WEED-FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRE A SLIGHT INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE.

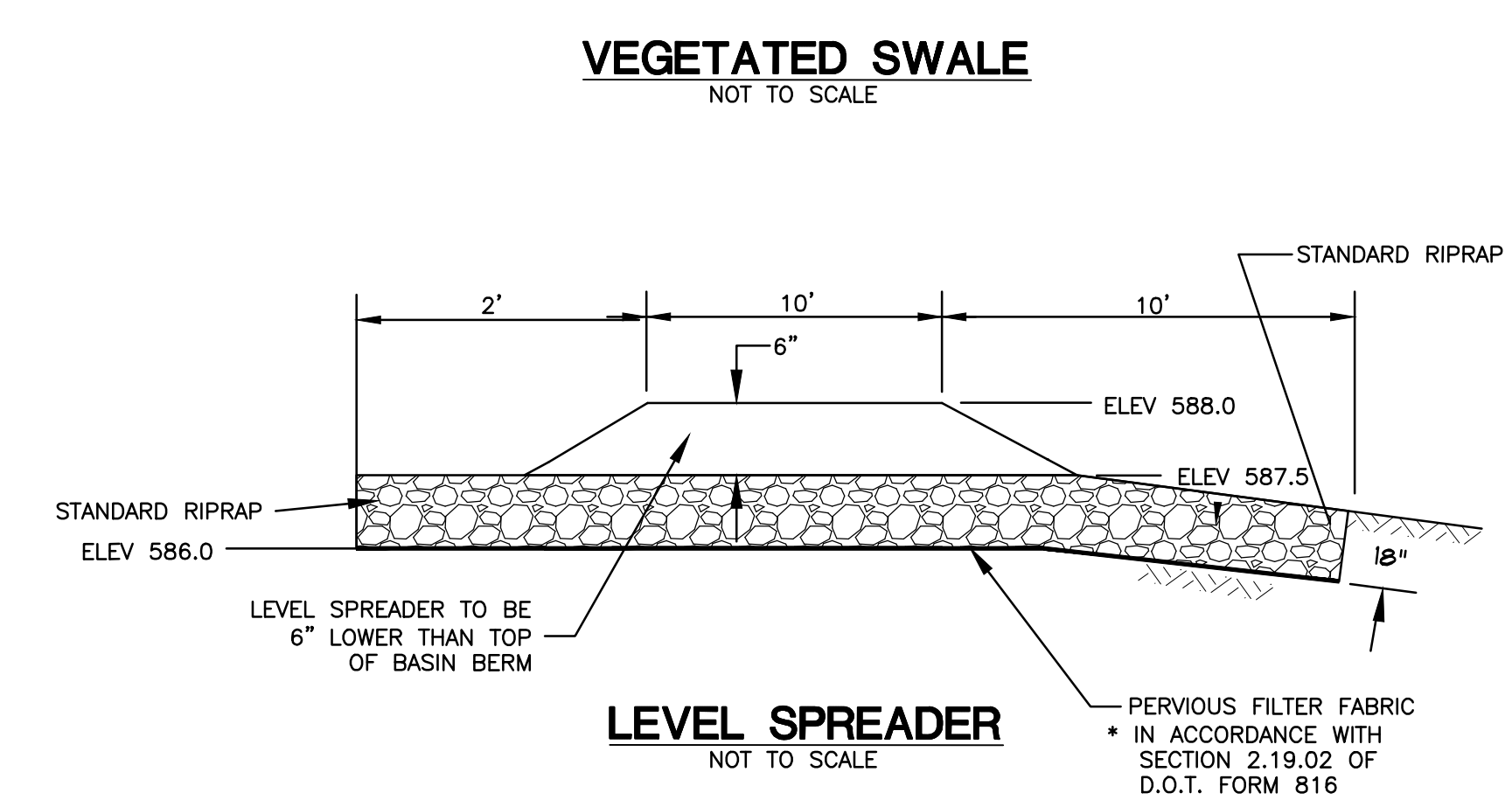
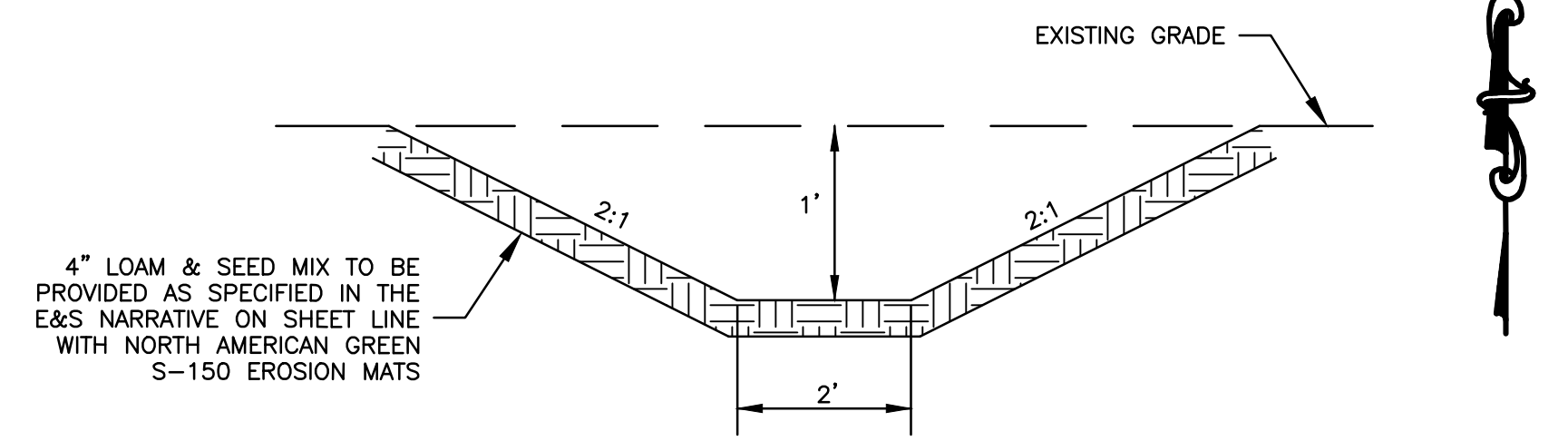
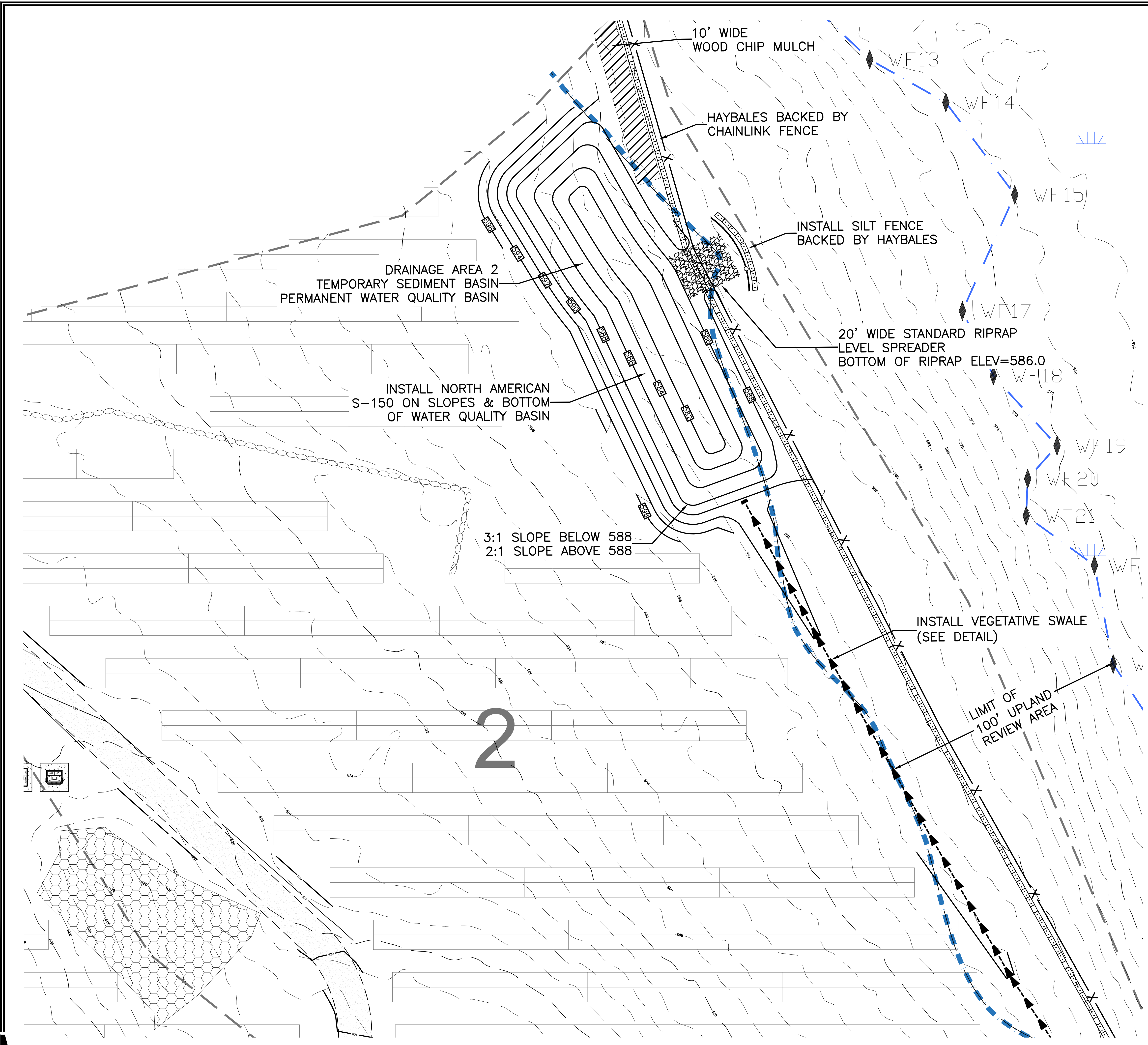
APPLICATION RATE: 35 LBS/ACRE (1250 SQ. FT./LB.)

SPECIES: * SWITCHGRASS (PANICUM VIRGATUM), VIRGINIA WILD RYE (ELYMUS VIRGINICUS), CREEPING RED FESCUE (FESTUCA RUBRA), FOX SEDGE (CAREX VULPINOIDEA), CREEPING BENTGRASS (AGROSTIS STOLONIFERA), SOFT RUSH (JUNCUS EFFUSUS), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), GRASS-LEAVED GOLDENROD (EUTHAMIA GRAMINIFOLIA), GREEN BULRUSH (SCIRPUS ATROVIRENS), BONESET (EUPATORIUM PERFOLIATUM), BLUE VERVAIN (VERBENA HASTATA) UPLAND BENTGRASS (AGROSTIS PERENNANS), BIG BLUESTEM, NIAGRA (ANDROPOGON GERARDI), SENSITIVE FERN (ONOCLEA SENSIBILIS), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), WOOLGRASS (SCIRPUS CYPERINUS).

NOTES
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		CLA Engineers, Inc. CIVIL • STRUCTURAL • SURVEYING	
		317 Main Street Norwich, CT 06380 (860) 886-1986 Fax (860) 886-9165	
No.	DATE	REVISION	Project No. CLA-6178
			Proj. Engineer E.M.B.
390 Hartford Turnpike Hampton, Connecticut			Date: 6/15/2018
FIK ROAD SOLAR			Sheet No. 7
AREA 1 TEMPORARY SEDIMENT TRAP PERMANENT WATER QUALITY BASIN			



SEED MIX FOR STORMWATER TREATMENT BASIN

THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES CONTAINS A SELECTION OF NATIVE GRASSES AND WILDFLOWERS DESIGNED TO COLONIZE RECENTLY DISTURBED SITES WHERE QUICK GROWTH OF VEGETATION IS DESIRED TO STABILIZE THE SOIL SURFACE. IT IS AN EXCELLENT SEED MIX FOR ECOLOGICALLY APPROPRIATE RESTORATIONS ON MOIST SITES THAT REQUIRE QUICK STABILIZATION AS WELL AS LONG-TERM ESTABLISHMENT OF NATIVE VEGETATION. THIS MIX IS PARTICULARLY APPROPRIATE FOR DETENTION BASINS THAT DO NOT NORMALLY HOLD STANDING WATER. SOME PLANTS IN THIS MIX CAN TOLERATE INFREQUENT INUNDATION, BUT NOT CONSTANT FLOODING.

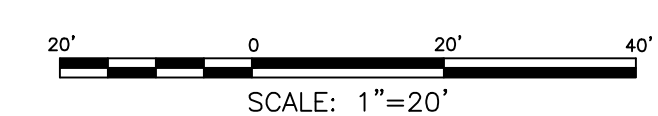
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APPLICATION RATE: 35 LBS/ACRE (1250 SQ. FT./LB.)

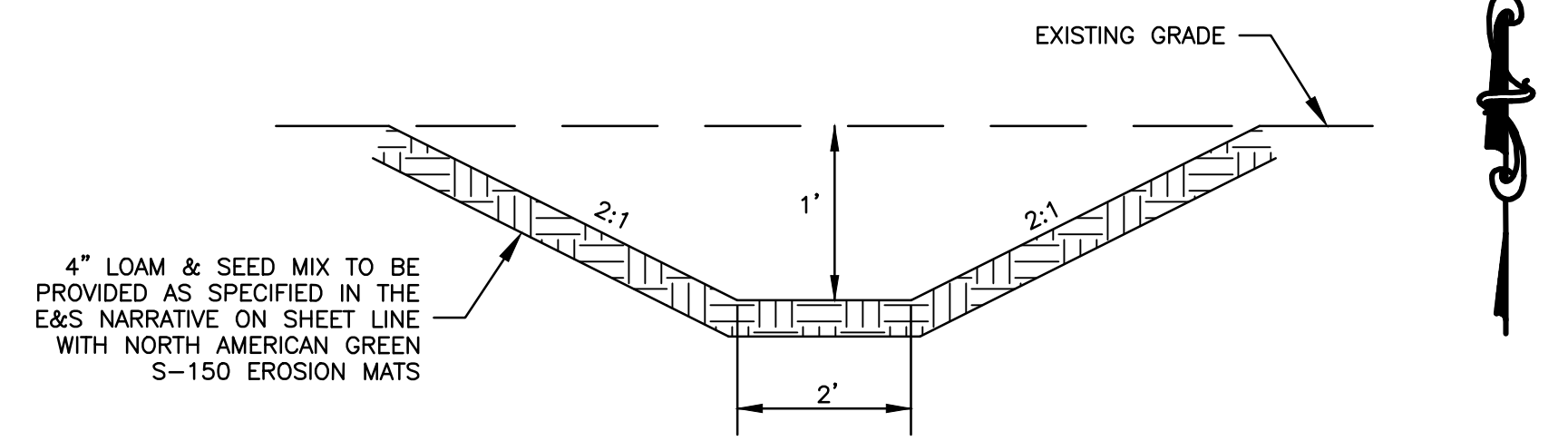
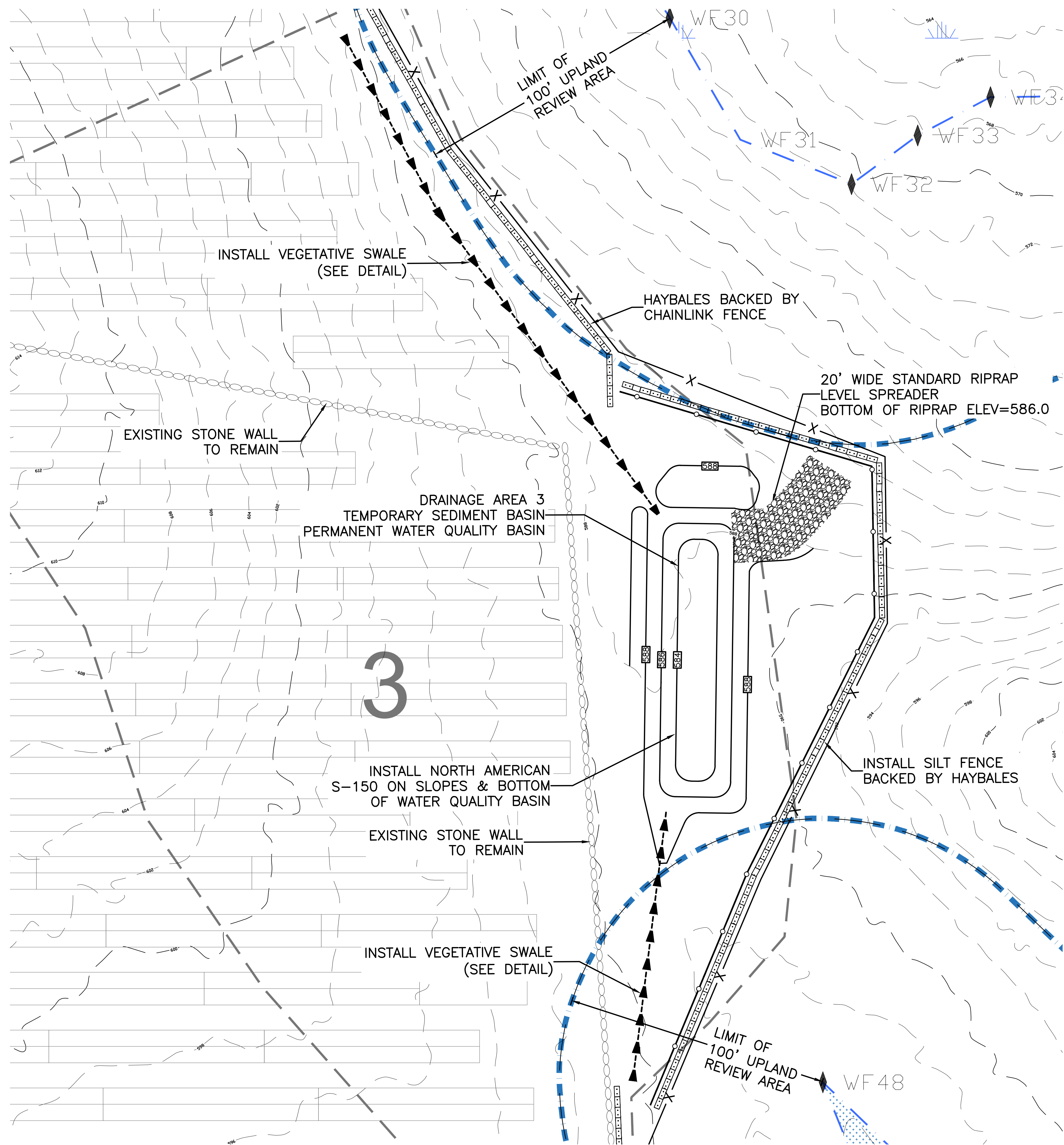
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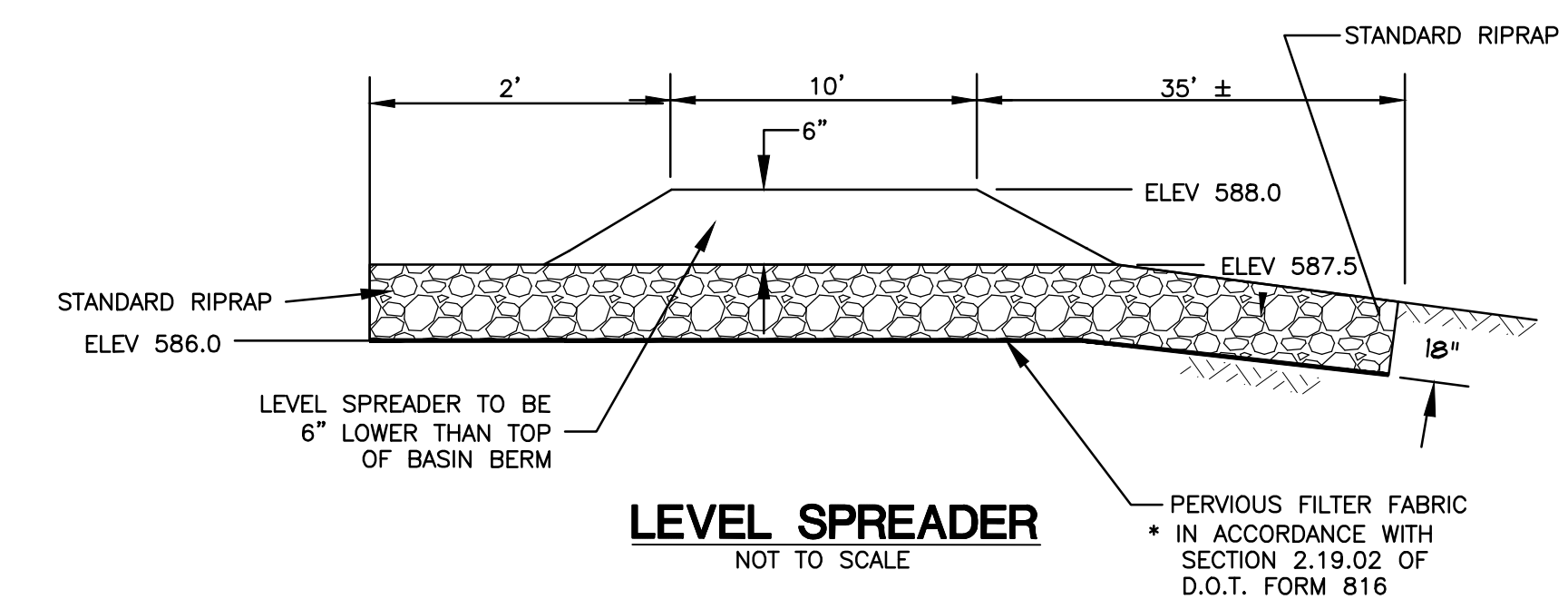
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		Proj. Engineer E.M.B.
390 Hartford Turnpike Hampton, Connecticut		Date: 6/15/2018
FIK ROAD SOLAR AREA 2 TEMPORARY SEDIMENT TRAP PERMANENT WATER QUALITY BASIN		Sheet No. 8



VEGETATED SWALE
NOT TO SCALE



LEVEL SPREADER
NOT TO SCALE

SEED MIX FOR STORMWATER TREATMENT BASIN

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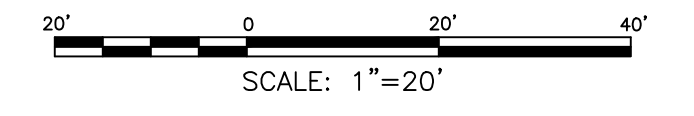
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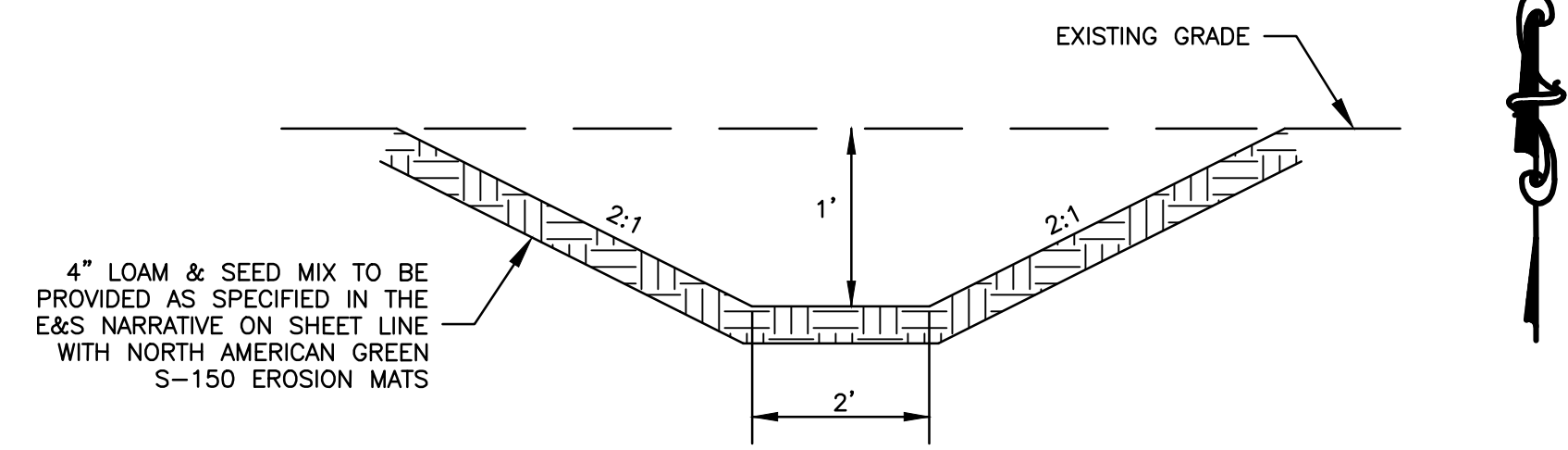
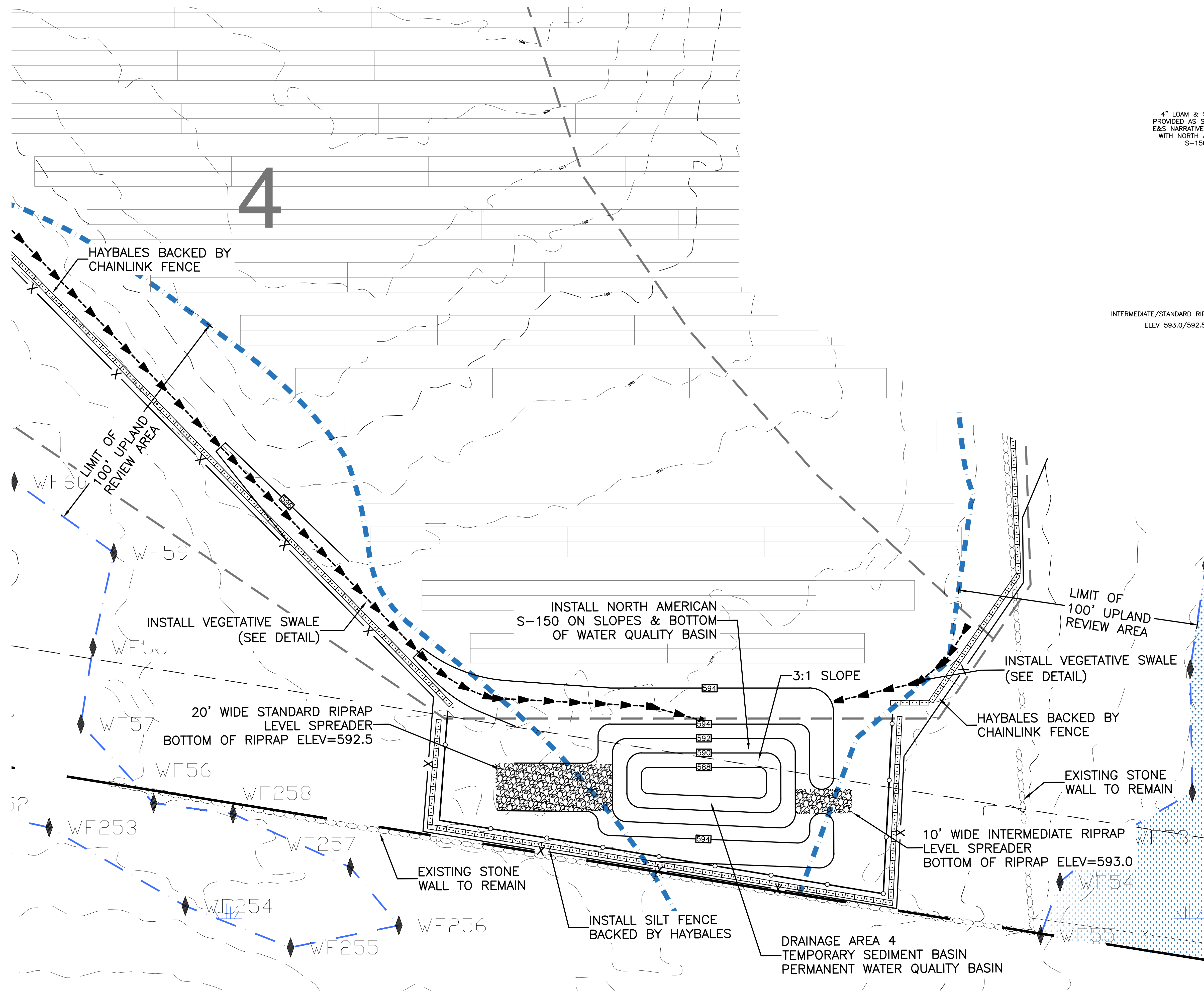
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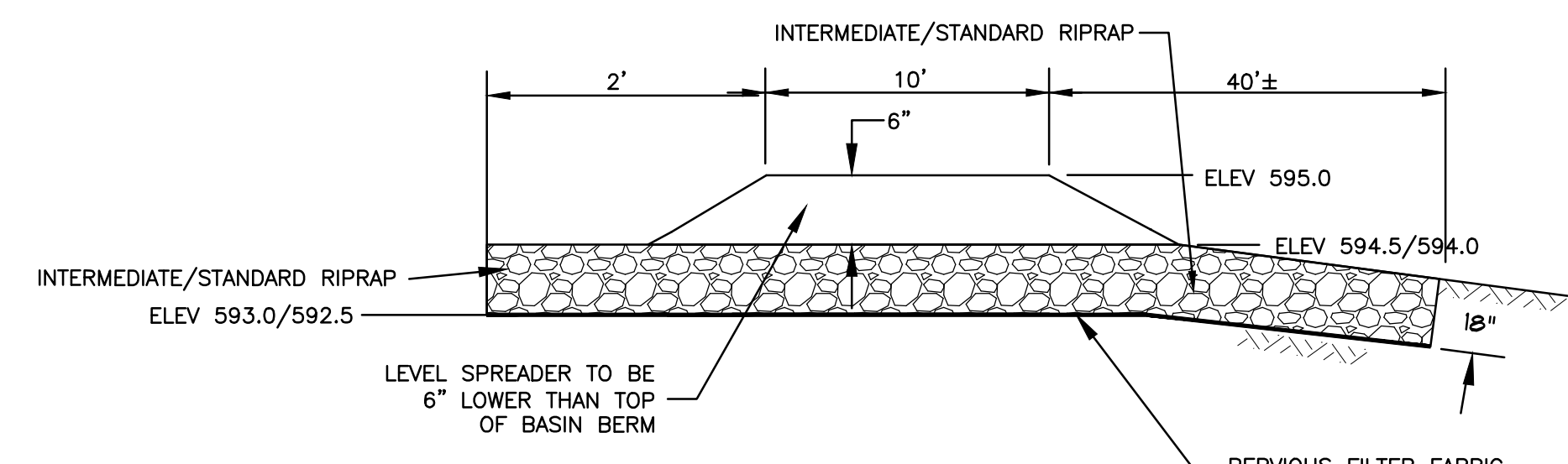
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		Proj. Engineer E.M.B.
No. DATE REVISION		Date: 6/15/2018
390 Hartford Turnpike Hampton, Connecticut		Sheet No. 9
FIK ROAD SOLAR AREA 3 TEMPORARY SEDIMENT TRAP PERMANENT WATER QUALITY BASIN		



VEGETATED SWALE
NOT TO SCALE



LEVEL SPREADER
NOT TO SCALE

SEED MIX FOR STORMWATER TREATMENT BASIN

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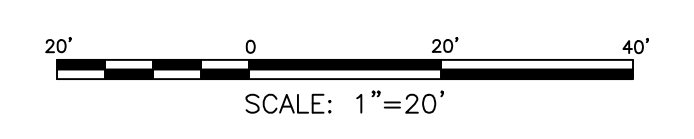
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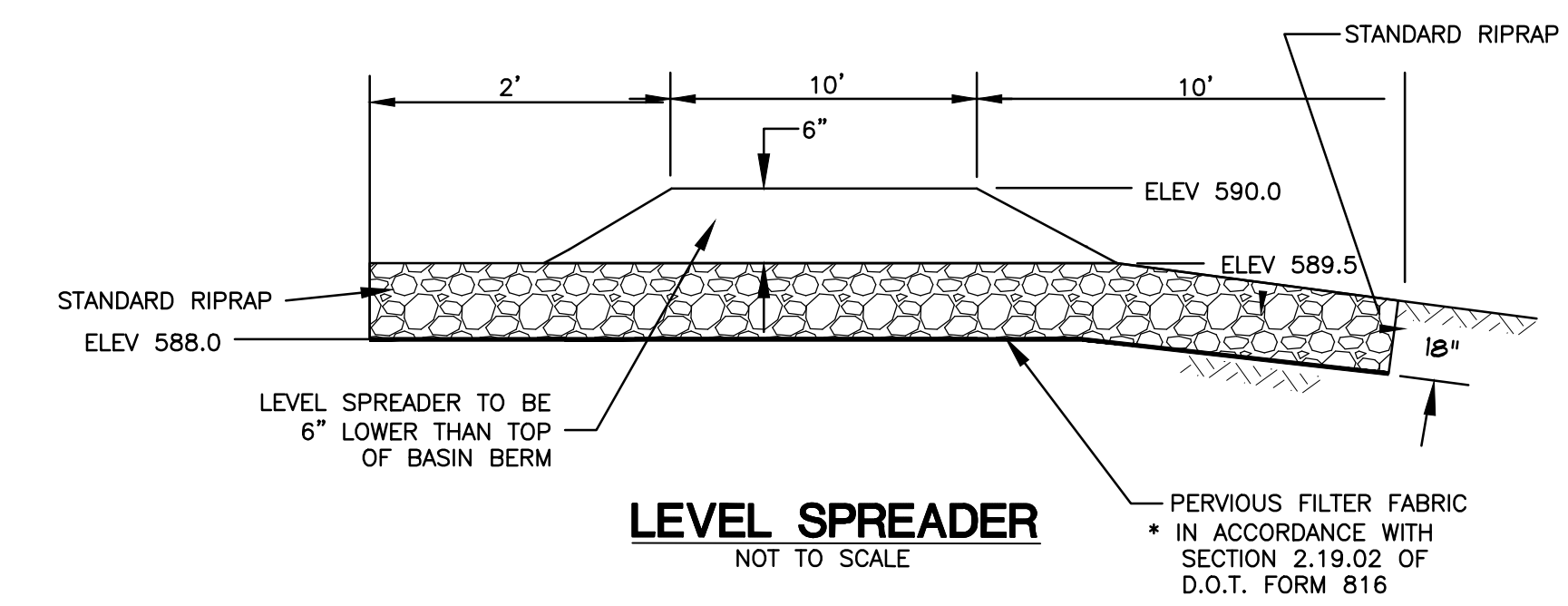
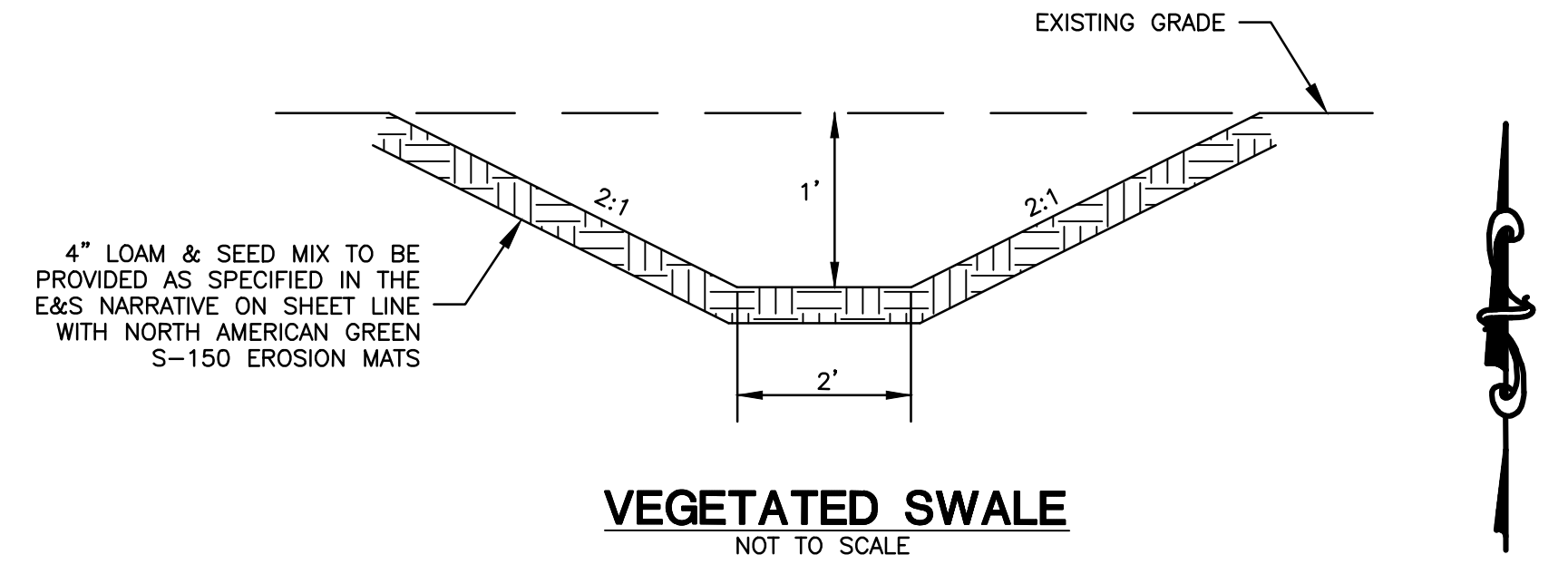
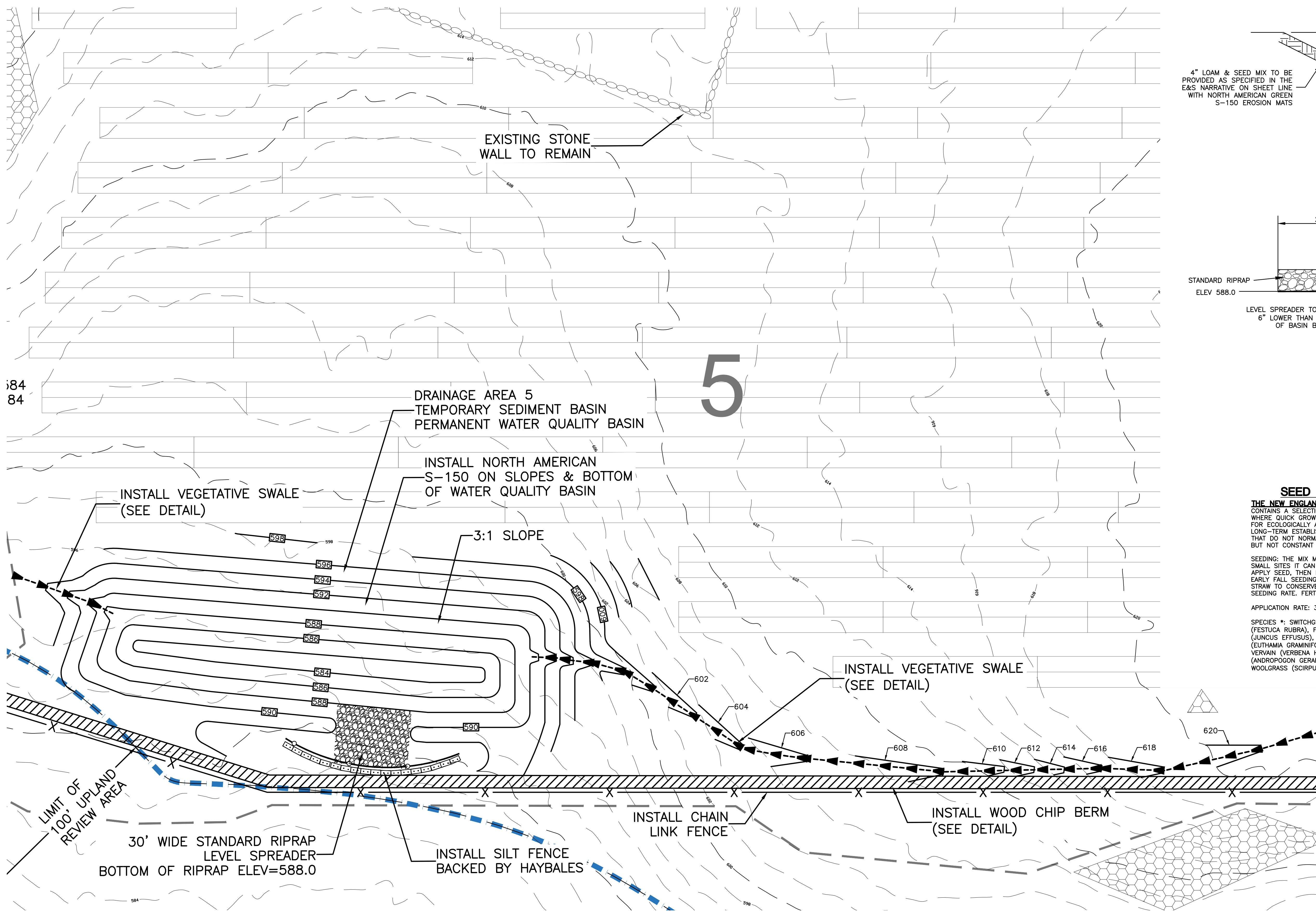
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		Proj. Engineer E.M.B.
390 Hartford Turnpike Hampton, Connecticut		Date: 6/15/2018
FIK ROAD SOLAR AREA 4 TEMPORARY SEDIMENT TRAP PERMANENT WATER QUALITY BASIN		Sheet No. 10



SEED MIX FOR STORMWATER TREATMENT BASIN

THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES CONTAINS A SELECTION OF NATIVE GRASSES AND WILDFLOWERS DESIGNED TO COLONIZE RECENTLY DISTURBED SITES WHERE QUICK GROWTH OF VEGETATION IS DESIRED TO STABILIZE THE SOIL SURFACE. IT IS AN EXCELLENT SEED MIX FOR ECOLOGICALLY APPROPRIATE RESTORATIONS ON MOIST SITES THAT REQUIRE QUICK STABILIZATION AS WELL AS LONG-TERM ESTABLISHMENT OF NATIVE VEGETATION. THIS MIX IS PARTICULARLY APPROPRIATE FOR DETENTION BASINS THAT DO NOT NORMALLY HOLD STANDING WATER. SOME PLANTS IN THIS MIX CAN TOLERATE INFREQUENT INUNDATION, BUT NOT CONSTANT FLOODING.

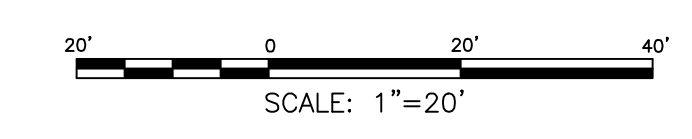
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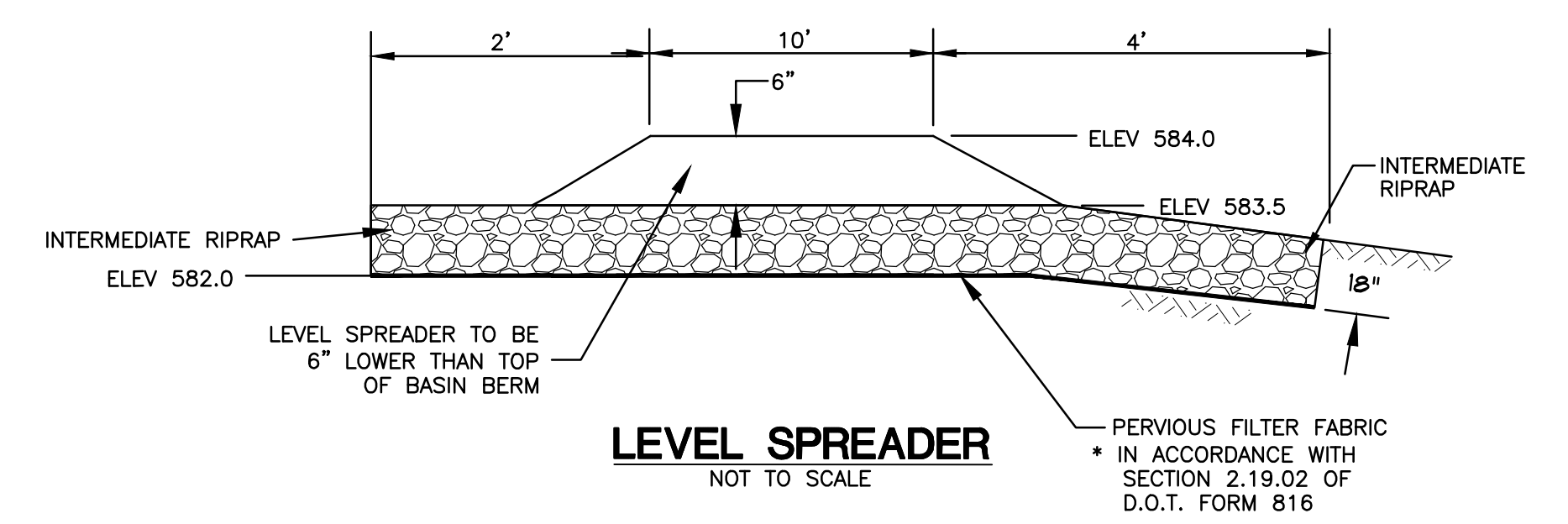
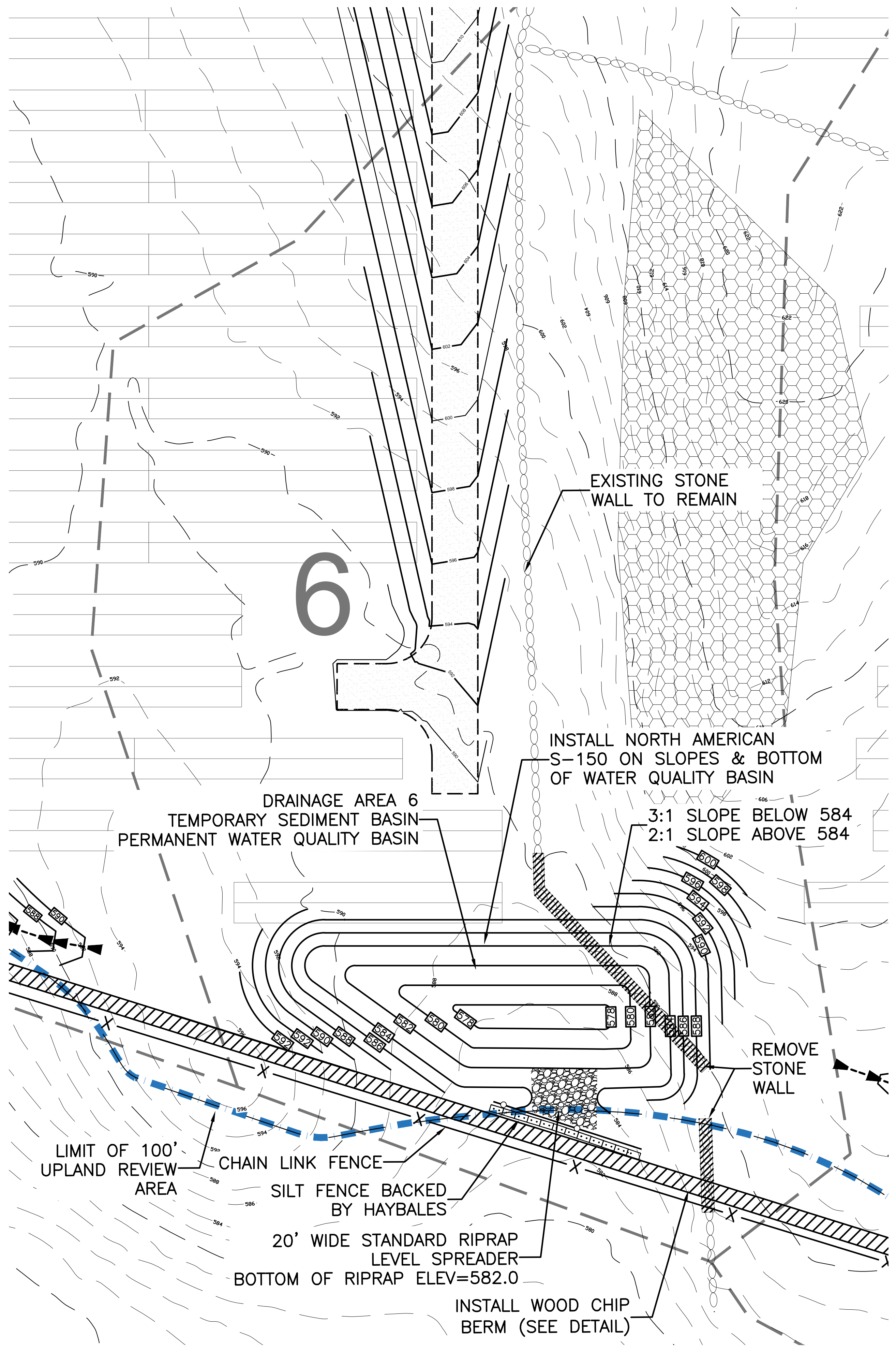
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		Proj. Engineer E.M.B.
<p>390 Hartford Turnpike Hampton, Connecticut</p>		Date: 6/15/2018
<p>FIK ROAD SOLAR</p>		Sheet No. 11
<p>AREA 5 TEMPORARY SEDIMENT TRAP PERMANENT WATER QUALITY BASIN</p>		



SEED MIX FOR STORMWATER TREATMENT BASIN

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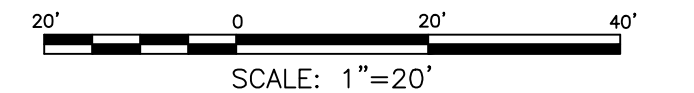
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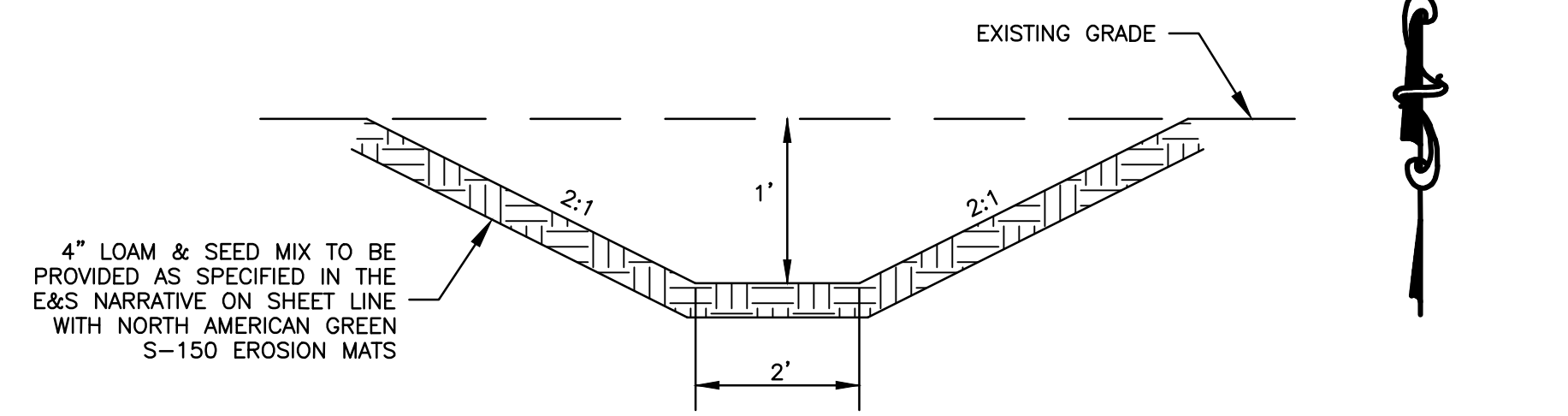
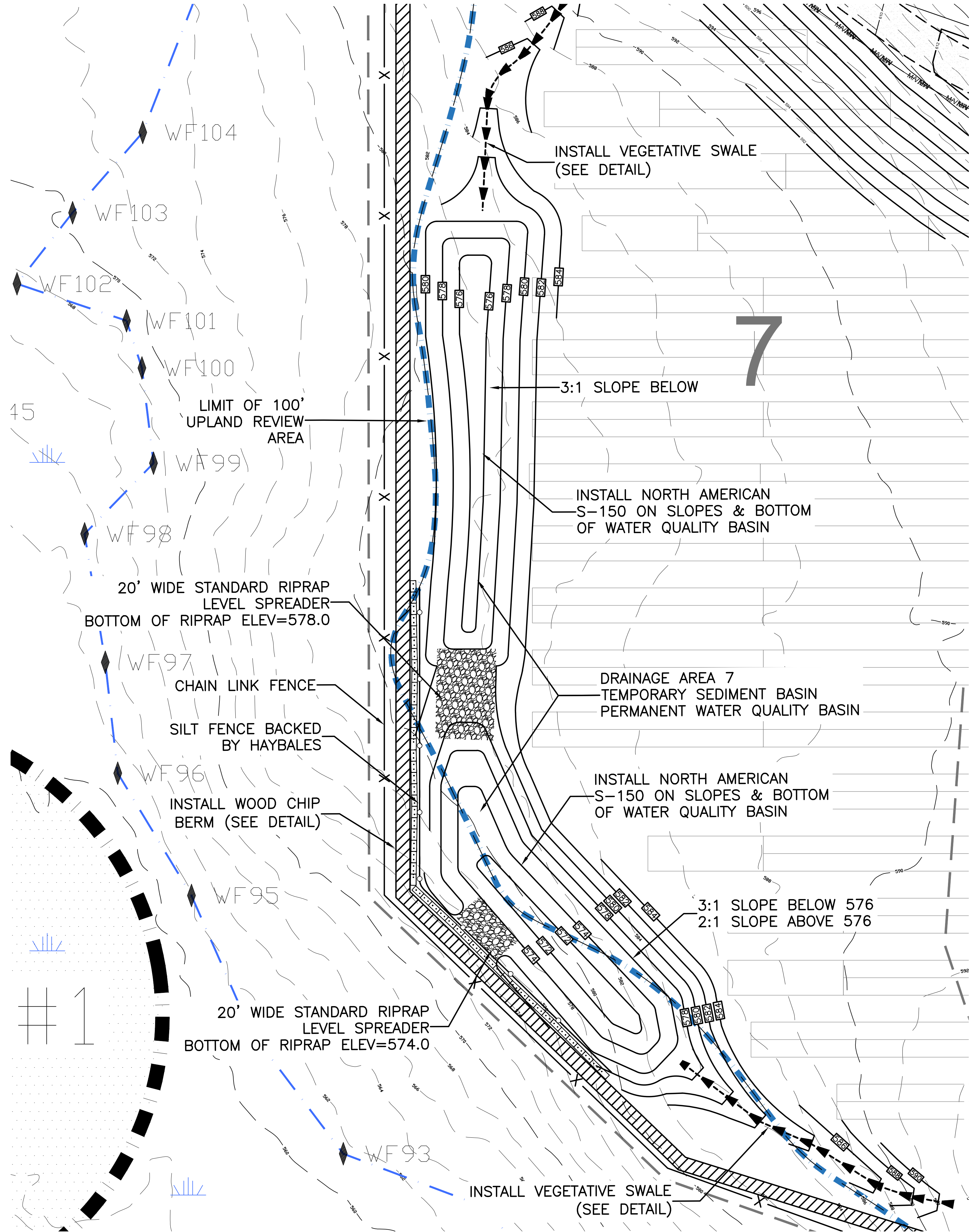
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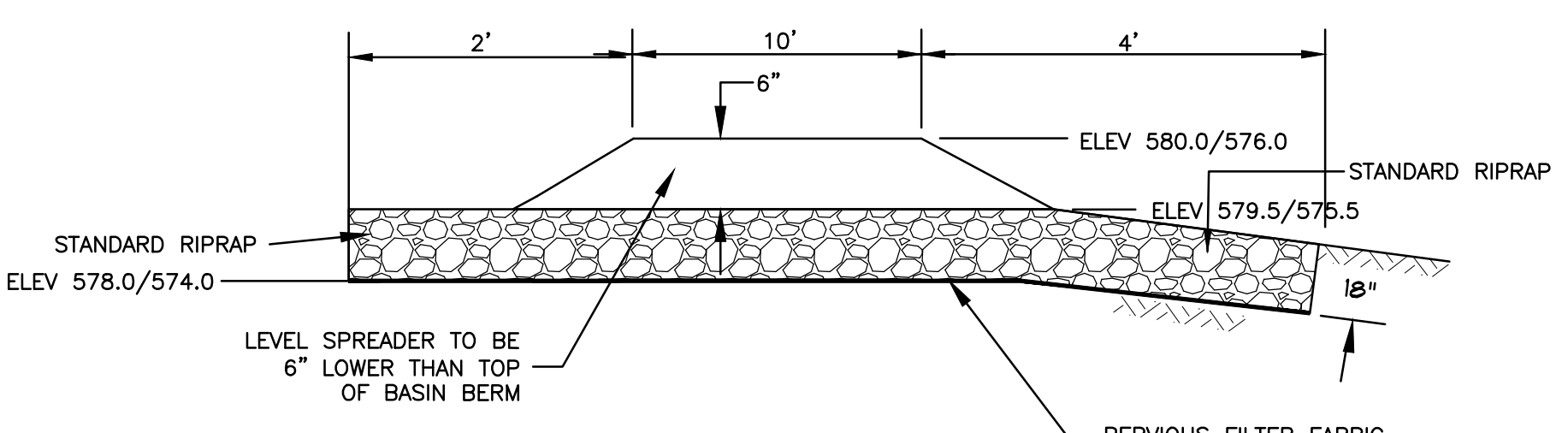
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		Sheet No.	
		12	
		AREA 6 TEMPORARY SEDIMENT TRAP PERMANENT WATER QUALITY BASIN	
		FIK ROAD SOLAR	



VEGETATED SWALE
NOT TO SCALE



LEVEL SPREADER
NOT TO SCALE

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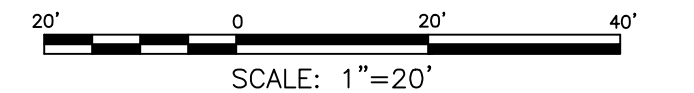
SEEDING: THE MIX MAY BE APPLIED BY HYDROSEEDING, BY MECHANICAL SPREADER, BY HYDRO-SEEDING OR ON SMALL SITES IT CAN BE SPREAD BY HAND. WHEN APPLYING ON BARE SOIL, RAKE THE SOIL TO CREATE GROOVES, APPLY SEED, THEN LIGHTLY RAKE OVER. IN NEW ENGLAND, THE BEST RESULTS ARE OBTAINED WITH A SPRING OR EARLY FALL SEEDING. SUMMER AND LATE FALL SEEDING WILL BENEFIT WITH A LIGHT MULCHING OF WEED-FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRE A SLIGHT INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE.

APPLICATION RATE: 35 LBS/ACRE (1250 SQ. FT./LB.)

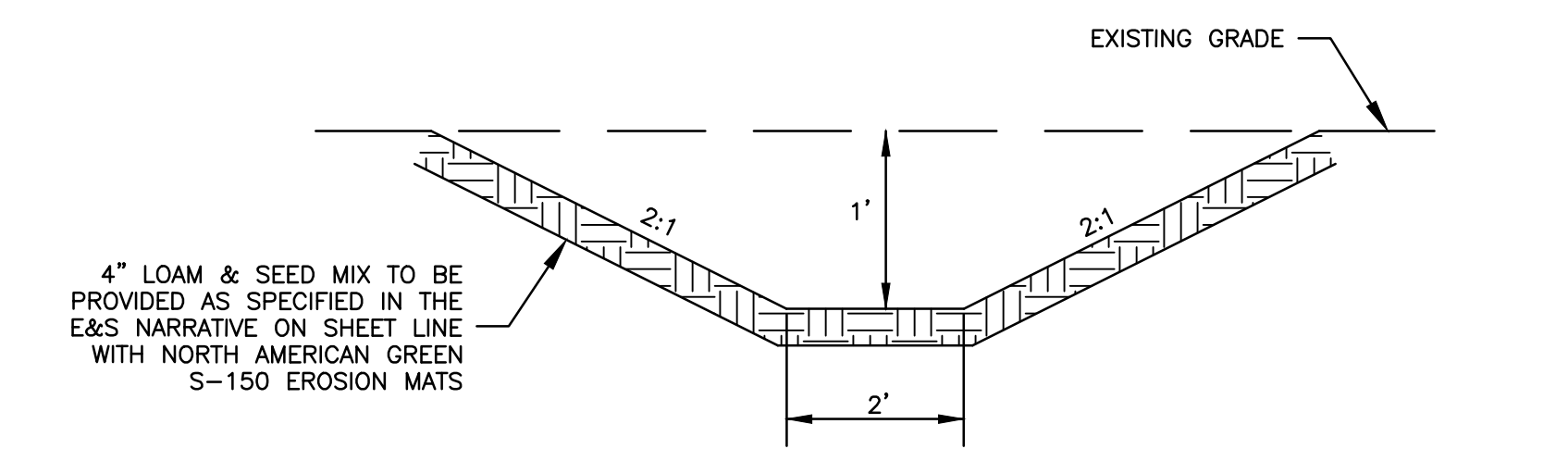
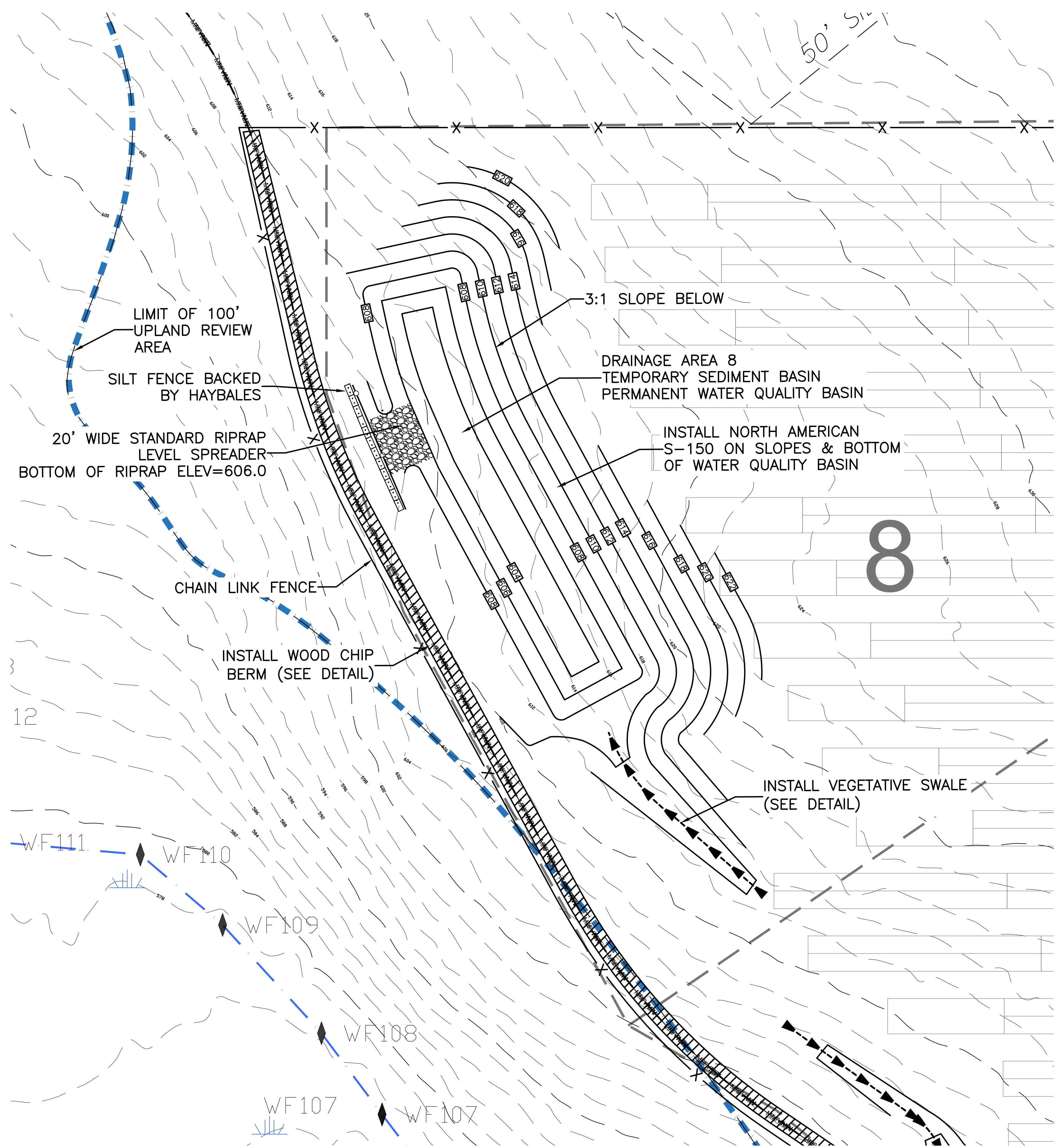
SPECIES: SWITCHGRASS (PANICUM VIRGATUM), VIRGINIA WILD RYE (ELYMUS VIRGINICUS), CREEPING RED FESCUE (FESTUCA RUBRA), FOX SEDGE (CAREX VULPINOIDEA), CREEPING BENTGRASS (AGROSTIS STOLONIFERA), SOFT RUSH (JUNCUS EFFUSUS), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), GRASS-LEAVED GOLDENROD (EUTHAMIA GRAMINIFOLIA), GREEN BULRUSH (SCIRPUS ATROVIRENS), BONESET (EUPATORIUM PERFOLIATUM), BLUE VERVAIN (VERBENA HASTATA) UPLAND BENTGRASS (AGROSTIS PERENNANS), BIG BLUESTEM, NIAGRA (ANDROPOGON GERARDII), SENSITIVE FERN (ONOCLEA SENSIBILIS), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), WOOLGRASS (SCIRPUS CYPERINUS).

NOTES

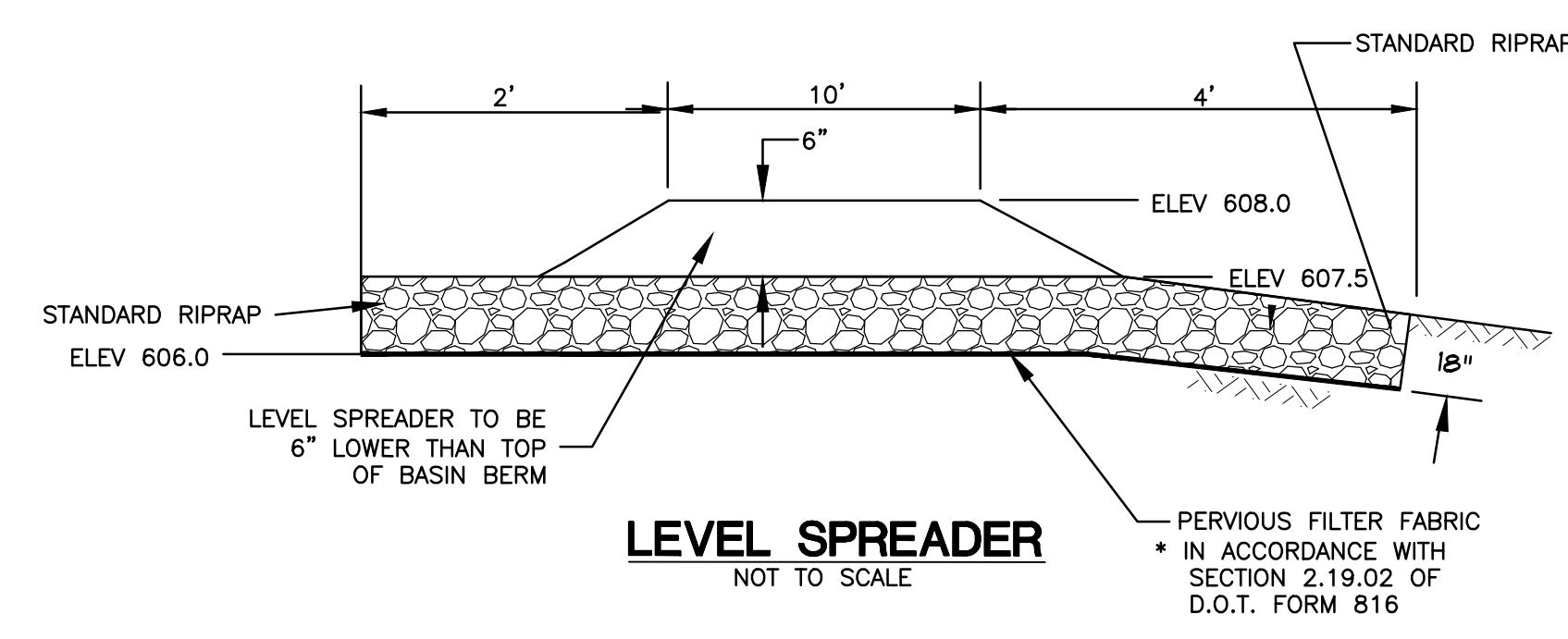
SOLAR MODULE FOOTPRINT WITHIN THE FENCELINE OF THE PROJECT REPRESENTED IN THESE DOCUMENTS WILL BE ADJUSTED BASED ON TOPOGRAPHICAL CONSTRAINTS PRESENTED BY SITE SLOPES AND STORMWATER BASINS. THE PROJECT FOOTPRINT IN THESE DOCUMENTS REPRESENTS THE PROJECT APPROVED BY THE CONNECTICUT SITING COUNCIL ON JANUARY 18, 2018



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		Proj. Engineer E.M.B.
390 Hartford Turnpike Hampton, Connecticut		Date: 6/15/2018
FIK ROAD SOLAR		Sheet No. 13
AREA 7 TEMPORARY SEDIMENT TRAP PERMANENT WATER QUALITY BASIN		



VEGETATED SWALE
NOT TO SCALE



LEVEL SPREADER
NOT TO SCALE

SEED MIX FOR STORMWATER TREATMENT BASIN

THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES CONTAINS A SELECTION OF NATIVE GRASSES AND WILDFLOWERS DESIGNED TO COLONIZE RECENTLY DISTURBED SITES WHERE QUICK GROWTH OF VEGETATION IS DESIRED TO STABILIZE THE SOIL SURFACE. IT IS AN EXCELLENT SEED MIX FOR ECOLOGICALLY APPROPRIATE RESTORATIONS ON MOIST SITES THAT REQUIRE QUICK STABILIZATION AS WELL AS LONG-TERM ESTABLISHMENT OF NATIVE VEGETATION. THIS MIX IS PARTICULARLY APPROPRIATE FOR DETENTION BASINS THAT DO NOT NORMALLY HOLD STANDING WATER. SOME PLANTS IN THIS MIX CAN TOLERATE INFREQUENT INUNDATION, BUT NOT CONSTANT FLOODING.

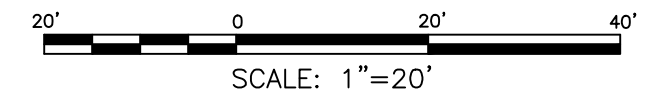
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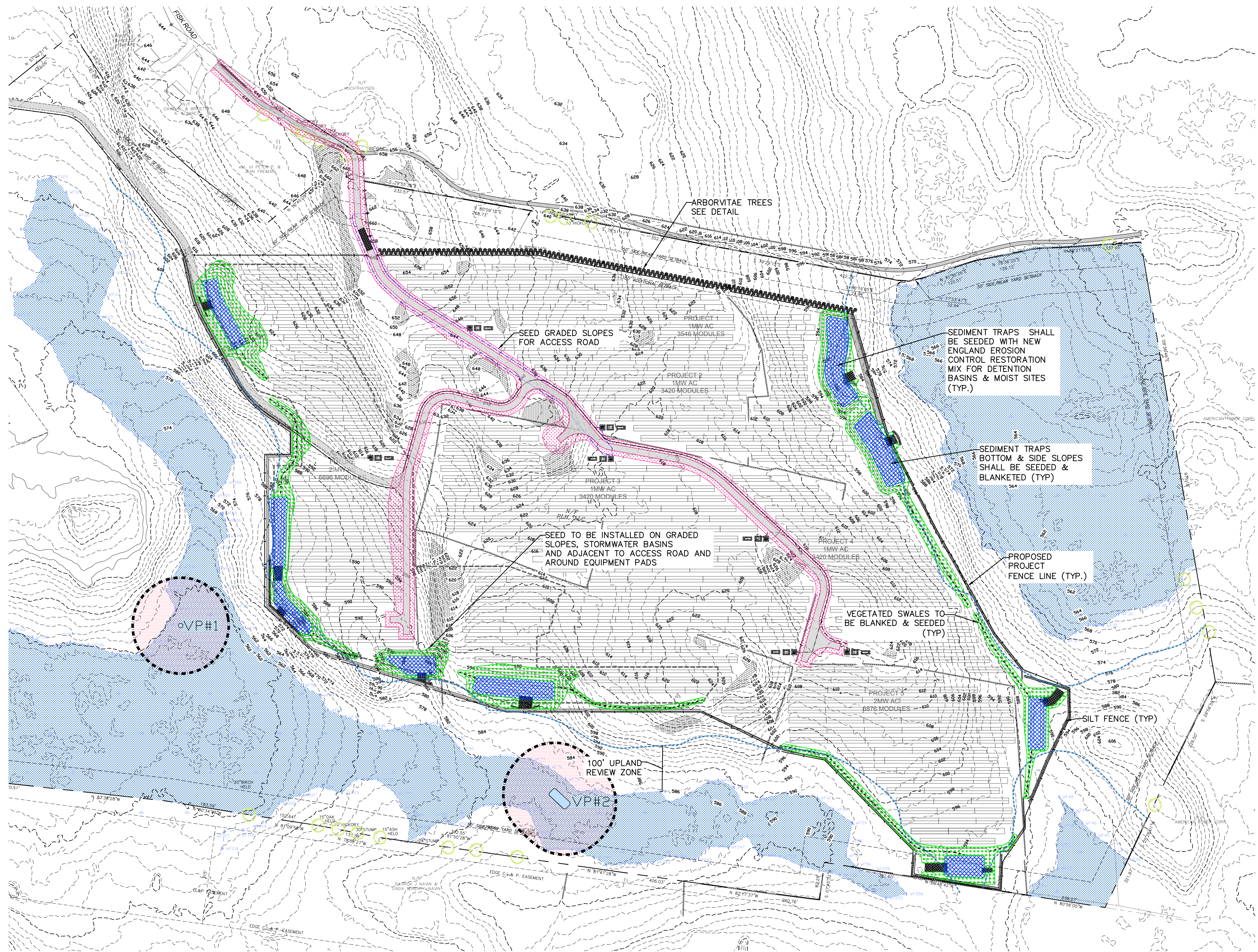
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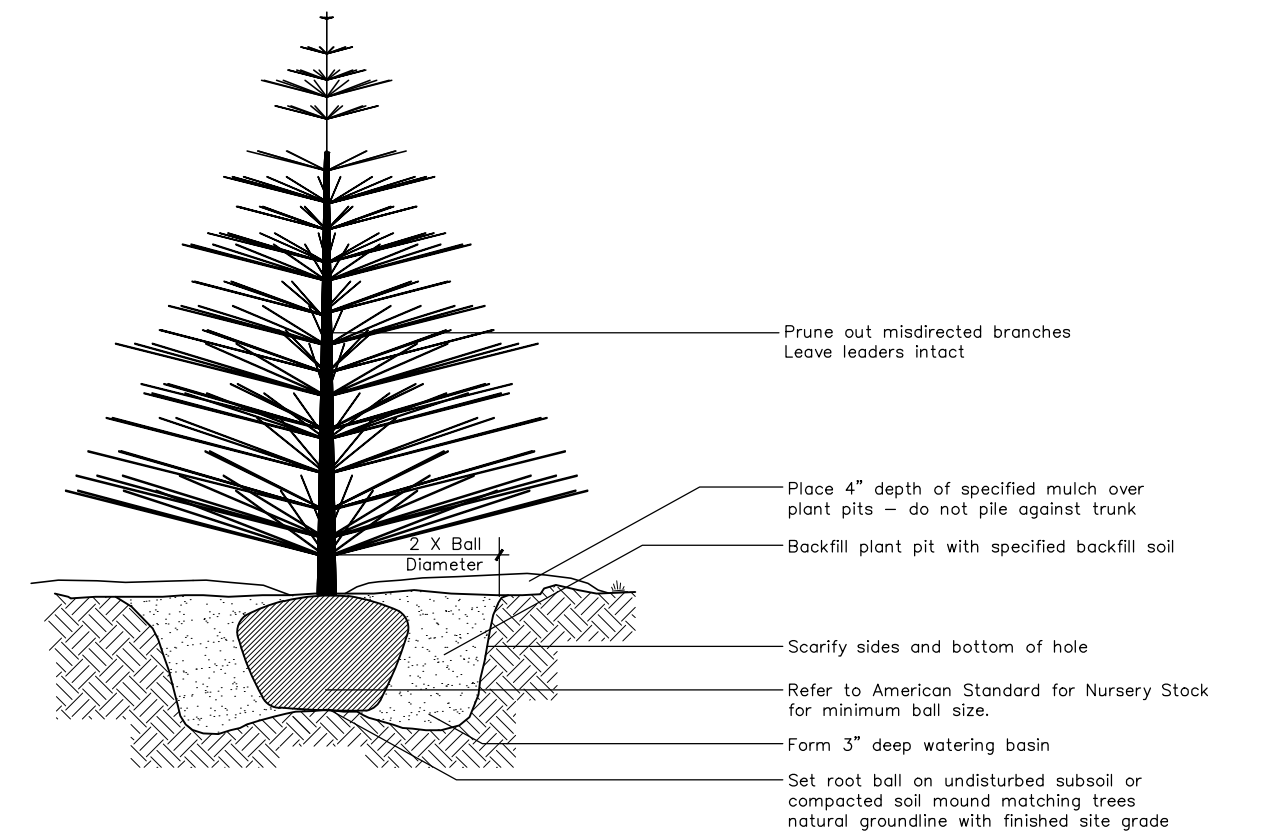
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		Proj. Engineer E.M.B.	
		Date: 6/15/2018	
		Sheet No. 14	
		390 Hartford Turnpike Hampton, Connecticut	
		FIK ROAD SOLAR	
		AREA 8 TEMPORARY SEDIMENT TRAP PERMANENT WATER QUALITY BASIN	



SEEDING NOTES:

1. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS ASSOCIATED WITH TREE REMOVAL AND SITE CLEARING. CONTRACTOR SHALL INSTALL A 50% / 50% CLOVER / FESCUE MIX OR ENGINEER APPROVED ALTERNATE SEED MIXTURE.
2. SEDIMENT TRAPS BOTTOM AND SIDE SLOPES SHALL BE SEEDED WITH THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASIN AND MOIST SITES. CONTRACTOR TO PROVIDE SEED MIXTURE TO ENGINEER PRIOR TO SEEDING BASINS.
3. ALL SEDIMENT TRAP BOTTOM AND SIDE SLOPES SHALL BE SEEDED AND BLANKETED.
4. OPEN FIELD AND BRUSH FIELD SEED AREAS SHALL BE SEEDED IN GRUBBED AREAS.

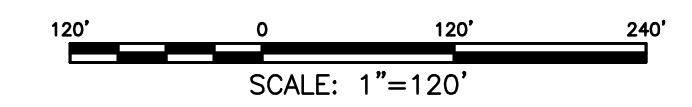
ARBORVITAE TREE DETAIL



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- SWALE/SLOPE BLANKET AREAS - 1.9 ACRES
- SITE GRADING SEEDING - 2.5 ACRES
- RESTORATION MIX SEEDING - 1.2 ACRES



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FIK ROAD SOLAR			Proj. Engineer E.M.B.
LANDSCAPE PLAN			Date: 6/15/2018
			Sheet No. 15

ROAD DESIGN PARAMETERS

- ROAD MAINTENANCE CAN BE EXPECTED OVER THE LIFE OF THE PERMANENT FACILITY.

SPECIAL PROVISIONS FOR GRADING AND EROSION CONTROL

THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS PLANNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES AS OUTLINED BY THE STATE OF CONNECTICUT AND BEING IN CONFORMANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL STORMWATER PERMIT. SEE THE STORMWATER POLLUTION CONTROL PLAN (SWPCP) FOR EROSION CONTROL AND RESTORATION SPECIFICATIONS. UNLESS OTHERWISE NOTED OR MODIFIED HEREIN, ALL SECTIONS OF THE GENERAL CONDITIONS SHALL APPLY.

EXECUTION

- CLEARING AND GRUBBING
 - THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL TREES, STUMPS, BRUSH, AND DEBRIS WITHIN THE GRADING LIMITS SHOWN ON THE PLANS. THE CONTRACTOR IS TO REMOVE ONLY THOSE TREES WHICH ARE DESIGNATED BY THE OWNER'S REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING TREES TO BE SAVED.
- TOPSOIL STRIPPING
 - TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY AREAS THROUGH THE ROOT ZONE. TOPSOIL SHALL NOT BE STRIPPED OUTSIDE OF THE DESIGNATED DISTURBANCE AREAS.
 - ANY TOPSOIL THAT HAS BEEN STRIPPED, SHALL BE RE-SPREAD OR STOCKPILED WITHIN GRADING AREAS AND/OR USED AS FILL OUTSIDE OF THE DISTURBANCE AREAS, AS DIRECTED BY THE ENGINEER.
- EMBANKMENT CONSTRUCTION.
 - EMBANKMENT CONSTRUCTION SHALL CONSIST OF THE PLACING OF SUITABLE FILL MATERIAL, AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE. GENERALLY, EMBANKMENTS SHALL HAVE COMPACTED SUPPORT SLOPES OF TWO AND A HALF FEET HORIZONTAL TO ONE FOOT VERTICAL. THE MATERIAL FOR EMBANKMENT CONSTRUCTION SHALL BE OBTAINED FROM THE ACCESS ROAD EXCAVATION (SEE GEOTECHNICAL REPORT FOR RESTRICTIONS), OR ANY SUITABLE, APPROVED SOIL OBTAINED OFFSITE BY CONTRACTOR, AS DIRECTED OR APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 9".
 - SIDE SLOPES GREATER THAN 2.5:1 WILL NOT BE PERMITTED, UNLESS OTHERWISE NOTED ON THE PLAN.

TESTING REQUIREMENTS:

- TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY.
- SUBMIT TESTING AND INSPECTION RECORDS SPECIFIED TO THE CIVIL ENGINEER OF RECORD FOR REVIEW.
 - THE ENGINEER WILL REVIEW THE TESTING AND INSPECTION RECORDS TO CHECK CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONSTRUCTION CONTRACTOR FROM THE RESPONSIBILITY FOR CORRECTING DEFECTIVE WORK.
- PROOF ROLLING:
 - PROOF-ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE USING A FULLY LOADED TANDEM AXLE DUMP TRUCK WITH A MINIMUM GROSS WEIGHT OF 25 TONS OR A FULLY LOADED WATER TRUCK WITH AN EQUIVALENT AXLE LOADING. PROOF-ROLLING ACCEPTANCE STANDARDS INCLUDE NO RUTTING GREATER THAN 1.5 INCHES, AND NO "PUMPING" OF THE SOIL BEHIND THE LOADED TRUCK.
- SIEVE ANALYSIS:
 - SIEVE ANALYSIS SHALL BE CONDUCTED IN ACCORDANCE WITH AASHTO T27
- PROCTOR:
 - PROCTORS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D-1557
- ATTERBERG LIMITS:
 - ATTERBERG LIMITS SHALL BE DETERMINED IN ACCORDANCE WITH AASHTO T89 AND T90
- MOISTURE DENSITY (NUCLEAR DENSITY):
 - MOISTURE DENSITY TESTING SHALL BE DONE IN ACCORDANCE WITH AASHTO T310

SUBGRADE COMPACTION, TEST ROLLING AND AGGREGATE BASE COMPACTION:

- FILL MATERIAL:
 - SOILS USED AS FILL MATERIAL SHALL BE TESTED FOR GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, AND PROCTOR TESTS (MODIFIED DRY MAXIMUM DENSITY).
 - FOR PLACED & COMPACTED FILLS, PROVIDE ONE COMPACTION TEST PER LIFT FOR EVERY 1000 FT OF ROAD LENGTH. INCLUDE THE LOCATION, DRY DENSITY, MOISTURE CONTENT, AND COMPACTION PERCENT BASED ON MODIFIED PROCTOR MAXIMUM DRY DENSITY.
 - IN ROADWAY CUT AREAS, OR WHERE EMBANKMENT CONSTRUCTION REQUIRES LESS THAN 12 INCHES OF FILL PLACEMENT, COMPACT TO A MINIMUM OF 95 PERCENT OF THE MATERIAL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY.
- COMPACTED SUBGRADE:
 - THE ENTIRE SUBGRADE SHALL BE PROOF-ROLLED PRIOR TO THE PLACEMENT OF THE AGGREGATE BASE TO IDENTIFY AREAS OF UNSTABLE SUBGRADE.
 - IF PROOF ROLLING DETERMINES THAT THE SUBGRADE STABILIZATION CANNOT BE ACHIEVED, THE FOLLOWING ALTERNATIVES WILL BE IMPLEMENTED:
 - REMOVE UNSUITABLE MATERIAL AND REPLACE WITH SUITABLE EMBANKMENT.
 - SCARIFY, DRY, AND RECOMPACT SUBGRADE AND PERFORM ADDITIONAL PROOF ROLL.
 - INCREASE ROAD BASE THICKNESS.
 - PROVIDE 1 MOISTURE DENSITY COMPACTION TESTS FOR EVERY 1000 L.F. OF ROAD LENGTH. COMPACTED SUBGRADE MUST BE COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY AT ±3% OF OPTIMUM MOISTURE CONTENT FOR GRANULAR SOILS AND AT -1 TO +3% OF OPTIMUM MOISTURE CONTENT FOR COHESIVE SOILS.
- AGGREGATE BASE:
 - AGGREGATE BASE SHALL BE PROOF-ROLLED OVER THE ENTIRE LENGTH. PROVIDE 1 SIEVE ANALYSIS PER 2500 CY OF ROAD BASE PLACED.
 - IF PROOF ROLLING DETERMINES THAT THE ROAD IS UNSTABLE, ADDITIONAL AGGREGATE SHALL BE ADDED UNTIL THE UNSTABLE SECTION IS ABLE TO PASS A PROOF ROLL.

TABLE 1: TESTING SCHEDULE SUMMARY		
LOCATION	TEST	FREQUENCY
STRUCTURAL FILL	GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, AND PROCTOR	1 PER MAJOR SOIL TYPE
	MOISTURE DENSITY	1 PER 2,000 CY OR MIN. 1 PER LIFT
COMPACTED SUBGRADE	PROOF-ROLL	ENTIRE LENGTH
	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 PER 1,000 FT OR MIN. 5 FOR THE SITE
AGGREGATE BASE	PROOF-ROLL	ENTIRE LENGTH
	SIEVE ANALYSIS	1 PER 2,500 CY

GENERAL NOTES:

- THE PLANIMETRIC FEATURES, GROUND SURFACE CONTOURS ON A LIDAR SURFACE PROVIDED NOAA.
- NO GRADING OR SOIL DISTURBANCE IS PERMITTED OUTSIDE OF THE GRADING LIMITS IDENTIFIED ON THE PLANS.
- GRADE ALL PROPOSED ROADS TO THE SLOPES PROPOSED ON THE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONSTRUCTION ACTIVITIES SHALL NOT BLOCK THE NATURAL OR MANMADE DRAINAGE SWALES CAUSING RAINWATER TO POND. ADDITIONAL CULVERTS IN EXCESS OF THOSE ON THE PLANS MAY BE REQUIRED AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY CONNECTICUT CALL BEFORE YOU DIG (811) AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
- WETLAND INFORMATION SHOWN ON THE PLAN WAS PROVIDED BY ROB HELLSTROM LAND SURVEYING AND FLAGGED BY HIGHLANDS SOILS.
- ELECTRICAL COLLECTION SYSTEM SHOWN ON THE PLAN SHALL BE CONSIDERED PRELIMINARY. CONTRACTOR SHALL REFER TO FINAL ELECTRICAL DESIGN PLANS FOR ACTUAL DESIGN LOCATIONS.

SLOPE STABILIZATION:

ALL AREAS DESIGNATED ON THE PLAN FOR SLOPE STABILIZATION SHALL BE GRADED AND COMPACTED, SMOOTH AND CLEAN TO THE FINISH CONTOURS SHOWN ON THE PLAN, WITH A MINIMUM OF 4 INCHES OF TOPSOIL PLACED ON THE AREA. STABILIZATION SHALL BE ACHIEVED IN ONE OF TWO MANNERS:

- EITHER: 1) HAND-PLACED RIPRAP
OR:
2) SEED WITH EROSION CONTROL AND REVEGETATION MAT (ECRM)

1. PLACEMENT OF RIP-RAP

RIPRAP HAND PLACED. HAND-PLACED RIPRAP SHALL CONSIST OF ROUGH UNHEWN QUARRY STONES, APPROXIMATELY RECTANGULAR, PLACED DIRECTLY ON THE SPECIFIED SLOPES OR SURFACES. IT SHALL BE SO LAID THAT THE WEIGHT OF THE LARGE STONES IS CARRIED BY THE SOIL RATHER THAN BY ADJACENT STONES. STONES SHALL WEIGH BETWEEN 50 AND 150 LB. EACH AND AT LEAST 60 % OF THEM SHALL WEIGH MORE THAN 100 LB. EACH WHEN USED ON EMBANKMENT CONSTRUCTION. RIP RAP FOR BMPS SHALL BE 6"-8" DIA. PREPARATION FOR HAND-PLACED RIP RAP. BEFORE ANY RIP RAP IS PLACED, THE SURFACE TO BE COVERED SHALL BE FULLY COMPACTED AND GRADED TO THE REQUIRED SLOPE. PLACE MIRAFITM8 OR APPROVED EQUAL GEOTEXTILE ON SLOPE. RIP RAP ON SLOPES SHALL COMMENCE COMMENCE IN A TRENCH BELOW THE TOW OF THE SLOPE AND SHALL PROGRESS UPWARD, EACH STONE BEING LAID BY HAND PERPENDICULAR TO THE SLOPE WITH THE LONG DIMENSION VERTICAL, FIRMLY BEDDED AGAINST THE SLOPE AND AGAINST THE ADJOINING STONE, WITH ENDS IN CONTACT, AND WITH WELL-BROKEN JOINTS. SIMILAR METHODS SHALL BE USED WHEN LAYING RIPRAP ON STREAM BEDS, IN DITCHES, AND ON LEVEL SURFACES.

THE FINISHED SURFACE OF THE RIPRAP SHALL PRESENT AN EVEN, TIGHT SURFACE, NOT LESS THAN 12 INCHES THICK, MEASURED PERPENDICULAR TO THE SLOPE.

THE STONES WEIGHING MORE THAN 100 LB. SHALL BE WELL DISPERSED THROUGHOUT THE AREA WITH THE 50-100 LB. STONES LAID BETWEEN THEM IN SUCH A MANNER THAT ALL STONES WILL BE IN CLOSE CONTACT. THE REMAINING VOIDS SHALL BE FILLED WITH SPALLS OF SUITABLE SIZE AND WELL TAMPED TO PRODUCE A FIRM AND COMPACT REVETMENT.

2. STABILIZATION WITH EROSION CONTROL AND REVEGETATION MAT (ECRM)

- AREA MUST BE GRADED SMOOTH AND CLEAN TO FINISH GRADES, AND COMPACTED.
- SEED AND MULCH AREA. USE SEED MIX APPROVED BY THE ENGINEER.
- INSTALL ECRM PER MANUFACTURER'S INSTRUCTIONS, HOWEVER THESE MUST INCLUDE THE FOLLOWING MINIMUM REQUIREMENTS:

A) GRADE GROUND TO FINISH CONTOURS. REMOVE ALL ROCKS, DIRT CLOUDS, STUMPS, ROOTS, TRASH, AND OTHER OBSTRUCTIONS LYING IN DIRECT CONTACT WITH THE SOIL SURFACE.

B) DIG MAT ANCHOR TRENCHES (MINIMUM 12" DEEP, 6" WIDE) AT TERMINAL ENDS AND PERIMETER SIDES WHERE MAT IS TO BE INSTALLED.

C) INSTALL MAT BY ROLLING UPHILL PARALLEL TO WATER FLOW, STARTING AT TRENCH. OVERLAP ROLLS BY MINIMUM OF 3". FASTEN TO GROUND WITH 18" PINS AND 1 1/2" WASHERS, OR EQUIVALENT. PIN MAT AT ENDS, AND EVERY 3' TO 5' ALONG OVERLAPS. DO NO STRETCH MAT. SPLICING ROLLS SHOULD BE DONE IN A CHECK SLOT. BACKFILL TO COVER ENDS AND FASTENERS, ROLLING MAT ACROSS BACKFILL AND PIN AGAIN.

FOR MAT USE NORTH AMERICAN GREEN S-150.

SEEDING:

- COMPOSITION OF SEED MIX CHANGES YEARLY. SEED SPECIFICATIONS MUST BE SUBMITTED TO ENGINEER 2 WEEKS PRIOR TO INSTALLATION. ALL SPECIES MUST BE NATIVE TO WINDHAM COUNTY.
- RESTORED AREAS TO BE SEEDED WITH ABOVE MIX OR EQUAL (SUBJECT TO ENGINEERS APPROVAL). SEED TO BE LIGHTLY RAKED TO ALLOW FOR PROPER SEED/SOIL CONTACT.
- CONTRACTOR SHALL OVERSEED AND/OR RE-MULCH AS NECESSARY TO ESTABLISH A GOOD COVER OF VEGETATION, WHETHER DUE TO POOR INITIAL COVER, INCLEMENT WEATHER BEFORE/DURING/AFTER SEEDING, OR THE ONSET OF WINTER.
- RILLING, GULLIES, OR OTHER EROSION DUE TO POOR COVER SHALL BE RAKED AND/OR REFILLED AND REMULCH/RESEDED.
- CONTRACTOR SHALL WARRANTEE SEEDING, MULCHING AND EROSION CONTROL FABRIC FOR ONE YEAR FROM THE SUBSTANTIAL COMPLETION OF THE RELEVANT AREA OF WORK.

INVASIVE SPECIES:

- ALL EQUIPMENT SHALL BE INSPECTED UPON ARRIVAL. EQUIPMENT ARRIVING WITH OBSERVABLE SOIL OR PLANT FRAGMENTS WILL BE REMOVED AND CLEANED.
- HAY BALES ARE NOT BE USED ON SITE. ONLY WEED-FREE STRAW BALES ARE APPROVED.
- OFF-SITE TOPSOIL MUST BE FREE OF INVASIVE SPECIES. THE ENGINEER SHALL BE NOTIFIED OF THE TOPSOIL SOURCE 6 WEEKS BEFORE DELIVERY.

SEDIMENTATION AND EROSION CONTROL PLAN

CONTACT:
STEVE BROYER
ECOS ENERGY
222 SOUTH 9TH STREET
SUITE 1600
MINNEAPOLIS MN 55402

THE PURPOSE OF THIS PROJECT IS TO INSTALL APPROXIMATELY 24,000 SOLAR MODULES AND ASSOCIATED ELECTRICAL EQUIPMENT FOR POWER GENERATION.

THE TOTAL AREA OF THE PROJECT SITE IS APPROXIMATELY 99.29 ACRES AND THE TOTAL AREAS OF THE SITE THAT IS EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES IS 35.4 ACRES

THE EROSION & SEDIMENTATION CONTROL PLAN AND DETAILS HAVE BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEEP.

IN THE AREAS OF SOLAR PANEL INSTALLATION, THERE ARE SEVERAL ACTIVITIES (SITE GRADING, FOOTING INSTALLATION, PANEL INSTALLATION, AND ELECTRICAL TRENCH WORK) THAT WILL DISTURB SOIL. ON SITE SOIL IS FINE TEXTURED, EROSION, MUST BE PROMPTLY STABILIZED AFTER EACH ACTIVITY.

THIS PROJECT WILL NOT BE PHASED. THE CONTRACTOR WILL LIMIT THE EXPOSED AREA OF UNSTABILIZED SOIL AND DISTURBANCE PER THE CONSTRUCTION SEQUENCE PROVIDED ON THIS PLAN.

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE SILT FENCE, HAY BALES, EROSION MAT, STONE CHECK DAMS, A CONSTRUCTION ENTRANCE, AND/OR OTHER EROSION CONTROL MEASURES AS NEEDED OR DIRECTED BY THE ENGINEER OR TOWN STAFF TO ADEQUATELY PREVENT SEDIMENT TRANSPORT.

EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE.

THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. SEDIMENT DEPOSITS MUST BE REMOVED BEFORE DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.

STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEMPORARY STOCKPILE AREAS. TEMPORARY VEGETATIVE COVER MAY BE REQUIRED (SEE NOTE).

CONTINUOUS DUST CONTROL USING WATER OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED ROADWAY SURFACES. THE USE OF CALCIUM CHLORIDE FOR DUST CONTROL SHALL NOT BE ALLOWED.

IF DEWATERING IS NECESSARY DURING ANY TIME OF CONSTRUCTION A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS SHOWN IN THE HAY-BALE BARRIER DEWATERING DETAIL OR ALTERNATE METHOD PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

ALL DISTURBED AREAS SHALL BE RESTORED PER THE SLOPE STABILIZATION AND PERMANENT VEGETATION DETAILS. ALL DISTURBED AREAS THAT ARE SLOPED LESS THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) SLOPE SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED PER THE PERMANENT VEGETATIVE COVER SPECIFICATIONS. EROSION CONTROL MATTING SHALL BE PROVIDED ON ALL DISTURBED AREAS THAT ARE SLOPED MORE THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).

IF FINAL SEEDING OF DISTURBED AREAS IS NOT TO BE COMPLETED BEFORE OCTOBER 15, THE CONTRACTOR SHALL PROVIDE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING.

WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISHED GRADED SHALL BE COMPLETED PRIOR TO OCTOBER 15.

ON EACH FRIDAY AND ALSO ON THE DAY BEFORE ANY RAIN FORECAST OF 0.5 INCHES OR MORE, THE CONTRACTOR SHALL HAY MULCH ALL EXPOSED SOIL.

ANY EROSION WHICH OCCURS WITHIN THE DISTURBED AREAS SHALL BE IMMEDIATELY REPAIRED AND STABILIZED. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE RETURNED TO THE SITE. POST SEEDING, INTERCEPTED SEDIMENT, IF ANY, SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE TOWN AND ENGINEER.

EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED OR SLOPES ARE STABILIZED AND REMOVAL IS APPROVED BY THE TOWN.

UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEEP.

THE CONTRACTOR SHALL PROVIDE THE NAME AND EMERGENCY CONTACT INFORMATION FOR THE PROJECT PERSONNEL RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROLS PRIOR TO THE START OF CONSTRUCTION.

THE OWNER WILL EMPLOY A CERTIFIED SOIL SCIENTIST TO PERFORM WEEKLY EROSION & SEDIMENTATION CONTROL INSPECTION.

- ROUTINE REPAIRS OR MODIFICATIONS SHALL BE COMPLETED BY THE CONTRACTOR WITHIN 48 HOURS AFTER DIRECTION BY THE INSPECTOR
- EMERGENCY REPAIRS SHALL BE COMPLETED IMMEDIATELY UPON DIRECTION BY THE INSPECTOR.

THE WETLANDS ENFORCEMENT OFFICER SHALL BE NOTIFIED AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION TO INSPECT EROSION CONTROLS.

THE WETLAND ENFORCEMENT OFFICER SHALL BE NOTIFIED AT THE COMPLETION OF WORK FOR FINAL INSPECTION AND SIGN OFF OF PERMIT COMPLIANCE.

LOCAL STATE AND FEDERAL PERMITS REQUIRED: THIS PROJECT REQUIRES A PERMIT FROM THE STATE OF CONNECTICUT SITING COUNCIL.

THE FOLLOWING DOCUMENTS ARE CONSIDERED TO BE PART OF THIS EROSION AND SEDIMENTATION CONTROL PLAN: THE COMPLETE SITE PLANS, THE DRAINAGE NARRATIVE PREPARED BY CLA ENGINEERS, AND THE CTDEEP 2002 MANUAL.

EROSION AND SEDIMENTATION CONTROL SEQUENCE

- BEFORE ANY WORK TAKES PLACE CONTACT CALL BEFORE YOU DIG 1-800-922- 4455 TO MARK UTILITIES.
- NOTIFY THE TOWN OF HAMPTON ZONING AND INLAND WETLANDS AGENTS OF START OF CONSTRUCTION A MINIMUM OF 48 HOURS IN ADVANCE.
- HAVE LICENSED SURVEYOR STAKE OUT THE CLEARING LIMITS
- CUT TREES BUT DO NOT GRUB.
- INSTALL CONSTRUCTION ENTRANCE
- INSTALL PERIMETER EROSION AND SEDIMENTATION CONTROLS (PERIMETER SILT FENCE AND WOOD CHIP BERM) AND HAVE INSPECTED BY SITE INSPECTOR.
- INSTALL CHAIN LINK FENCE AND HAYBALES AROUND PERIMETER.
- INSTALL ADDITIONAL E&S AS SHOWN ON PLANS INCLUDING TEMPORARY VEGETATED SWALES AND TEMPORARY VEGETATED SEDIMENT TRAPS AND HAVE THEM INSPECTED BY THE SITE INSPECTOR.
- ANY DEWATERING WILL BE MONITORED BY A QUALIFIED ENVIRONMENTAL PROFESSIONAL TO MAINTAIN SUITABLE QUALITY OF DISCHARGE FROM THE DEWATERING AND TO ENSURE REMOVAL OF ACCUMULATED SEDIMENTS AT APPROPRIATE INTERVALS. SEDIMENTS WILL BE DISPOSED OF AT AN APPROPRIATE ON-SITE LOCATION. DEWATERING WILL DISCHARGE INTO TEMPORARY SEDIMENT TRAPS.
- ROUGH GRADE SITE WILL PROCEED, WORKING FROM NORTH TO SOUTH. GRADING SHALL NOT EXPOSE MORE THAN 5 ACRES OF SOIL
- INSTALL SOLAR PANELS IN PHASES, HYDROSEED OR SEED AND MULCH AROUND PANELS AND HYDROSEED OR MULCH AND SEED ANY EXPOSED SOIL AT THE END OF EACH WEEK AND BEFORE EVERY RAINFALL PREDICTED FOR 0.5 INCHES OR MORE.
- TRENCH FOR AND INSTALL ELECTRIC LINES AND AT THE END OF EACH WEEK HYDROSEED OR MULCH AND SEED ANY EXPOSED SOIL AT THE END OF EACH WEEK AND BEFORE EVERY RAINFALL PREDICTED FOR 0.5 INCHES OR MORE.
- INSTALL REMAINING ELECTRIC INFRASTRUCTURE AND AT THE END OF EACH WEEK HYDROSEED OR MULCH AND SEED ANY EXPOSED SOIL AT THE END OF EACH WEEK AND BEFORE EVERY RAINFALL PREDICTED FOR 0.5 INCHES OR MORE.
- OVERSEED DISTURBED SOILS WHEN ALL SOLAR PANEL INSTALLATION IS COMPLETE.
- CLEAN SEDIMENTS BASINS AND GRADE AND RE-SEED FOR USE AS STORMWATER BASINS WHEN SITE INSPECTOR DEEMS SOILS ARE STABILIZED.
- INSTALL PLANTINGS
- MAINTAIN E&S AND PROVIDE REPORTS TO TOWNS AND CTDEEP

