

HERRING RIVER RESTORATION PROJECT WELLFLEET AND TRURO, MASSACHUSETTS

CHEQUESSETT YACHT AND COUNTRY CLUB RECONFIGURATION PERMIT-LEVEL DESIGN PLANS

SEPTEMBER 13, 2019

DRAFT

PREPARED FOR:



Friends of Herring River
Wellfleet and Truro,
Massachusetts

P.O. Box 585
S. Wellfleet, Massachusetts 02663
www.friendsofherringriver.org

PREPARED BY:



environmental consulting
& engineering services

404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com



Howard Maurer Golf Course Design, LLC
Newbury, New Hampshire
p 603-763-0583
how.maurer@gmail.com



PROJECT LOCATION MAP



SCALE: 1"=2000'
SOURCE: USGS

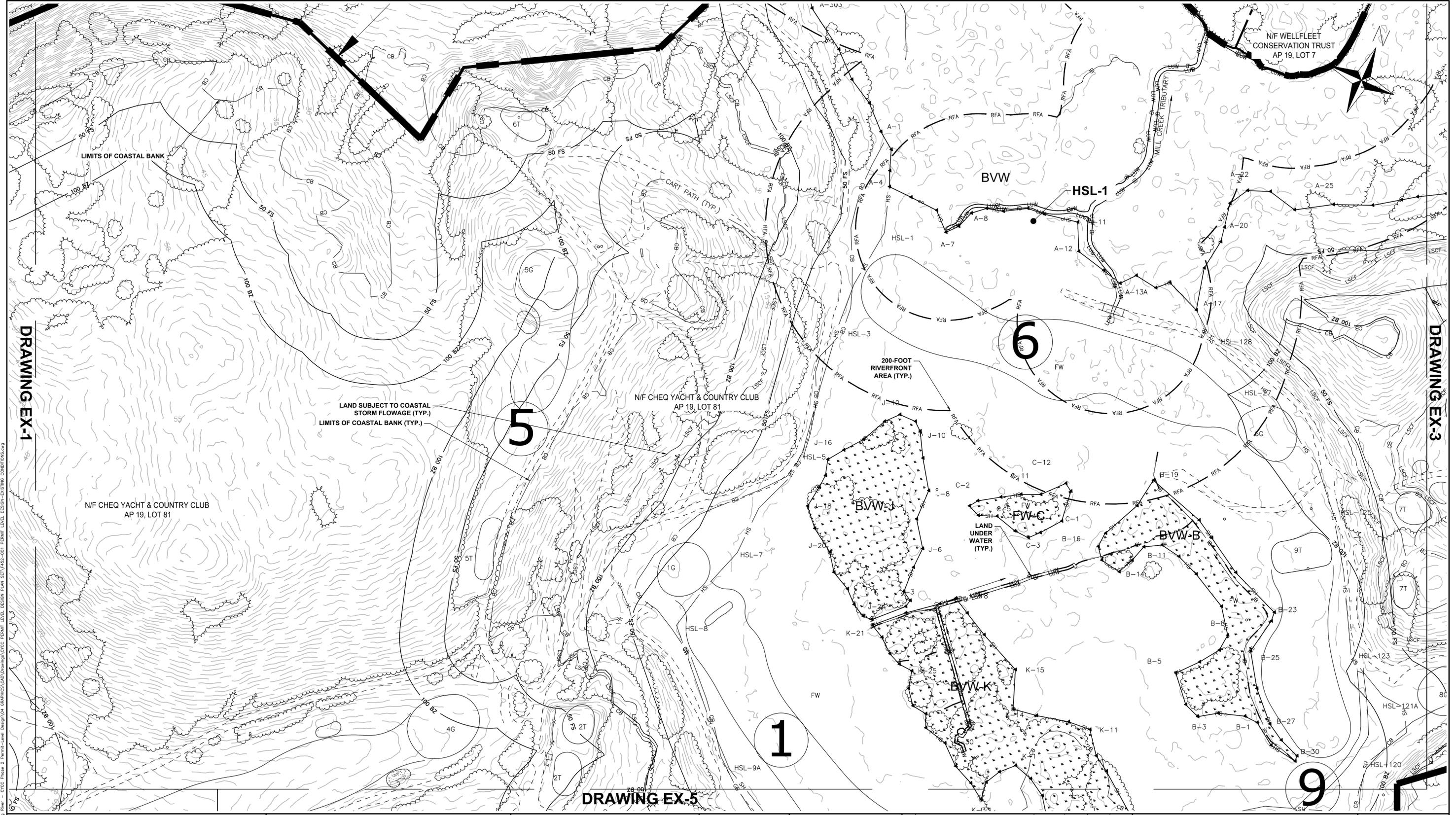
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ATTACHMENTS

"DRAFT IRRIGATION PLAN", IRRIGATION CONSULTING
LLC, DATED 09/13/2019

"CONCEPT TIMBER CART BRIDGE", YORK BRIDGE
CONCEPTS, DATED 09/12/2019



DRAWING EX-1

DRAWING EX-3

DRAWING EX-5



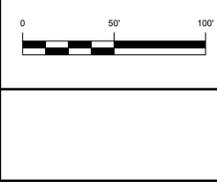
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CYCC RECONFIGURATION
AP 19 LOT 81
680 CHEQUESSETT NECK ROAD
WELLFLEET, MA

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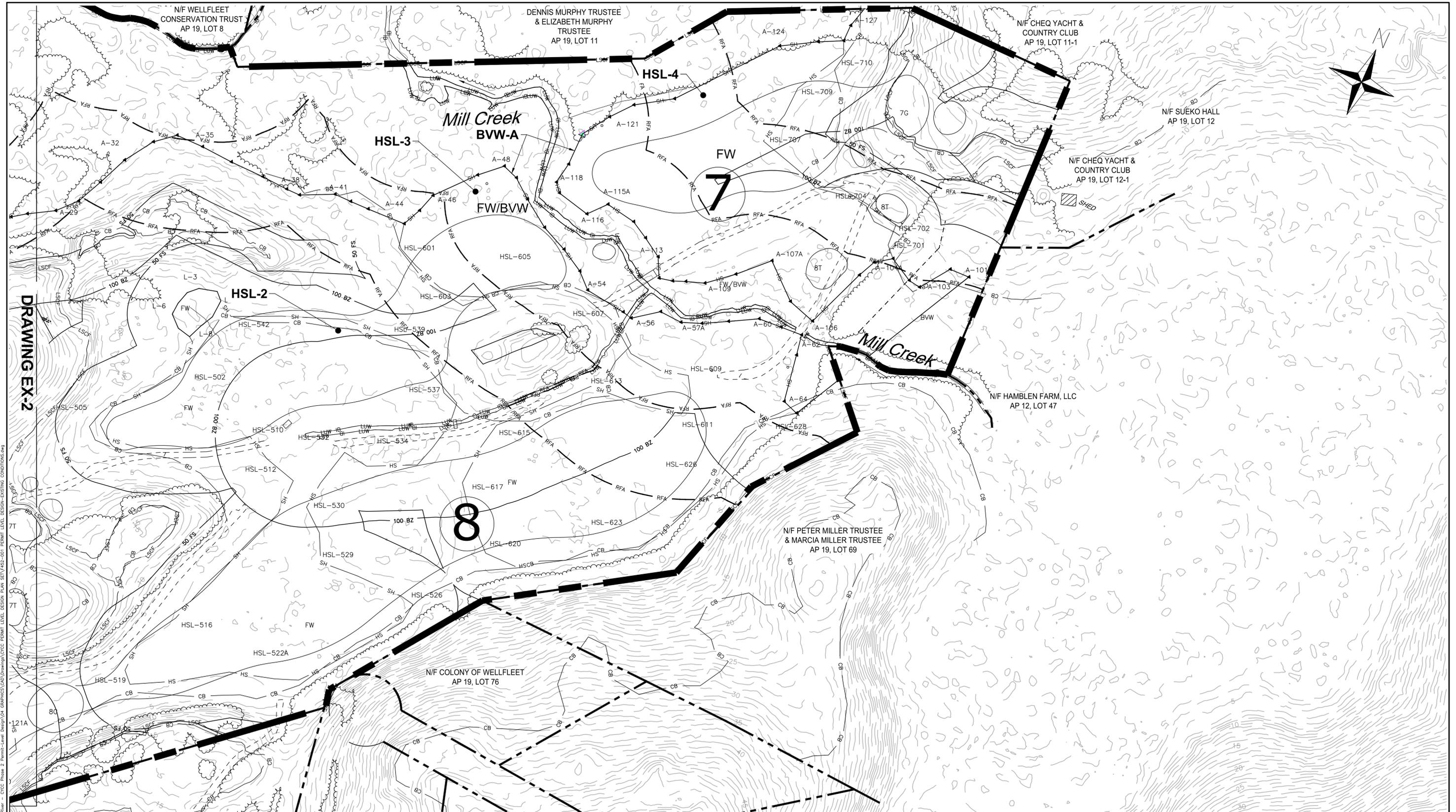
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DATE OF ISSUE: 09/13/2019
SHEET NO: 5 OF 31

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DESIGNED: J.V.452-001
CHECKED: J.V.452-001
PROJECT: CYCC Reconfig - Phase 2
SHEET: 5 OF 31



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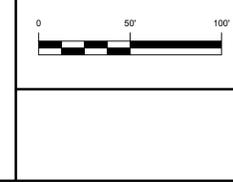
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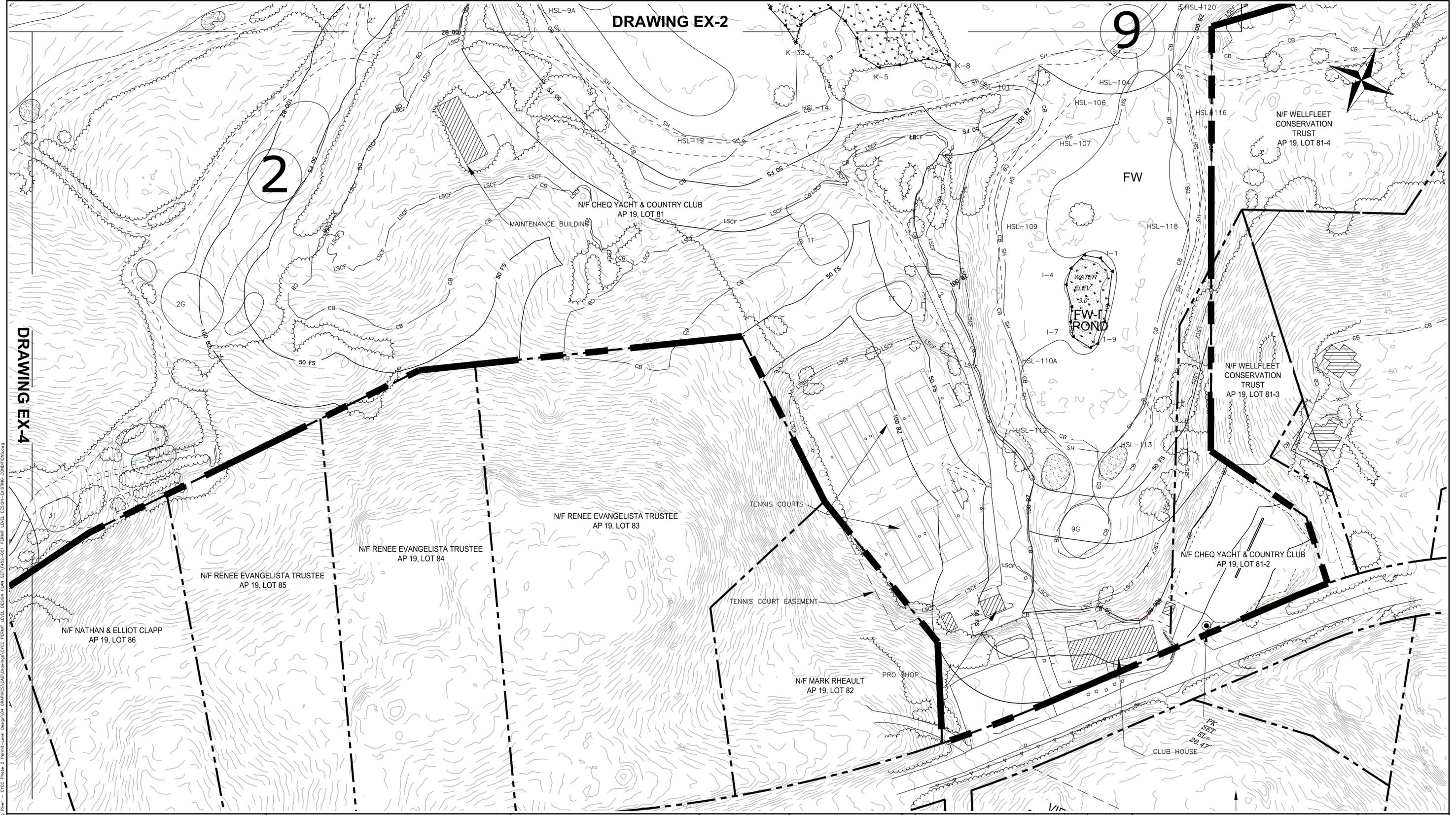
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EX-3

PROJECT NO: F452-001
 DATE OF ISSUE: 09/13/2019
 SHEET NO: 6 OF 31



DRAWING EX-2

9

2

DRAWING EX-4

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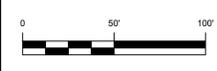

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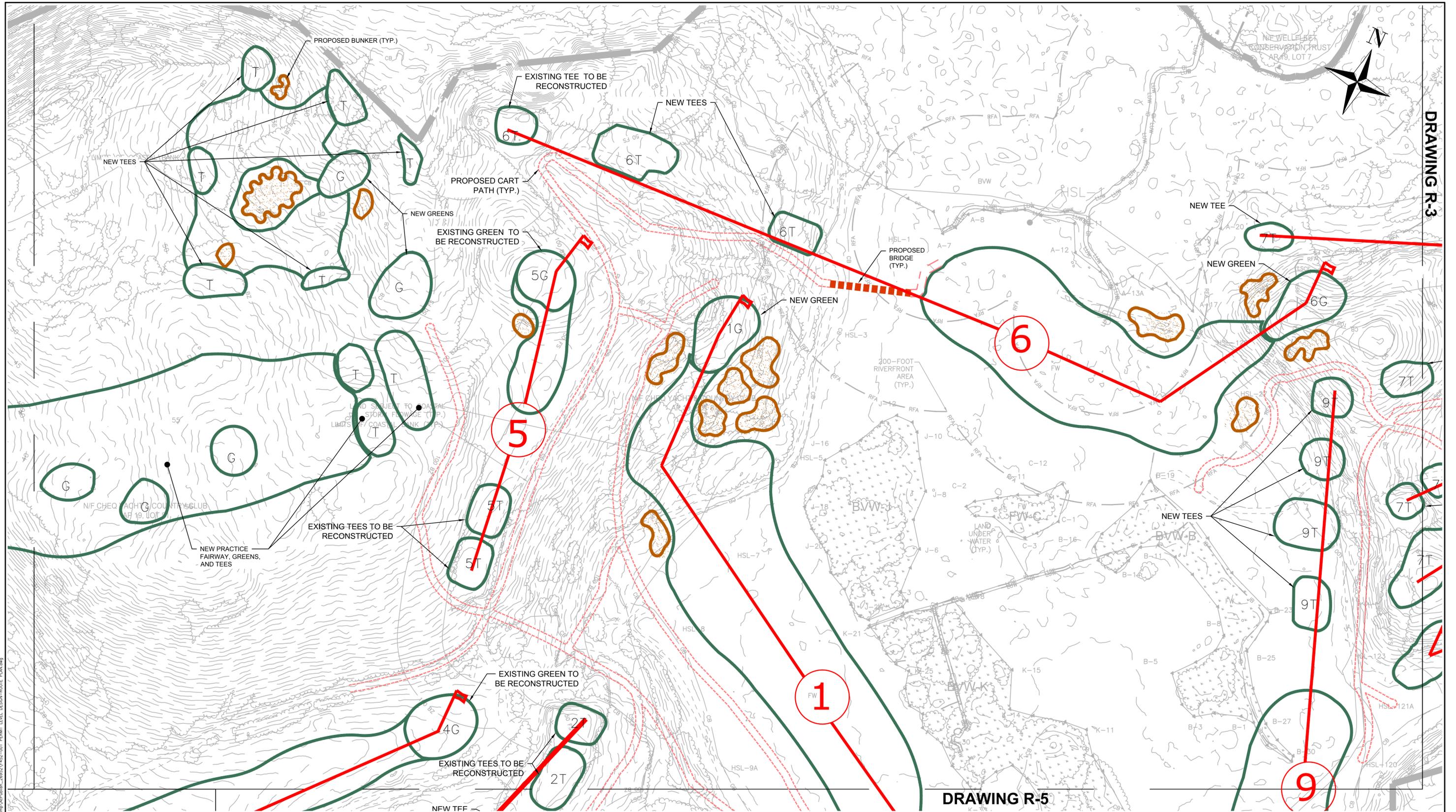


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DRAWING R-3

DRAWING R-5



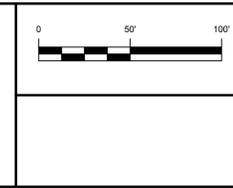
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ROUTE PLAN

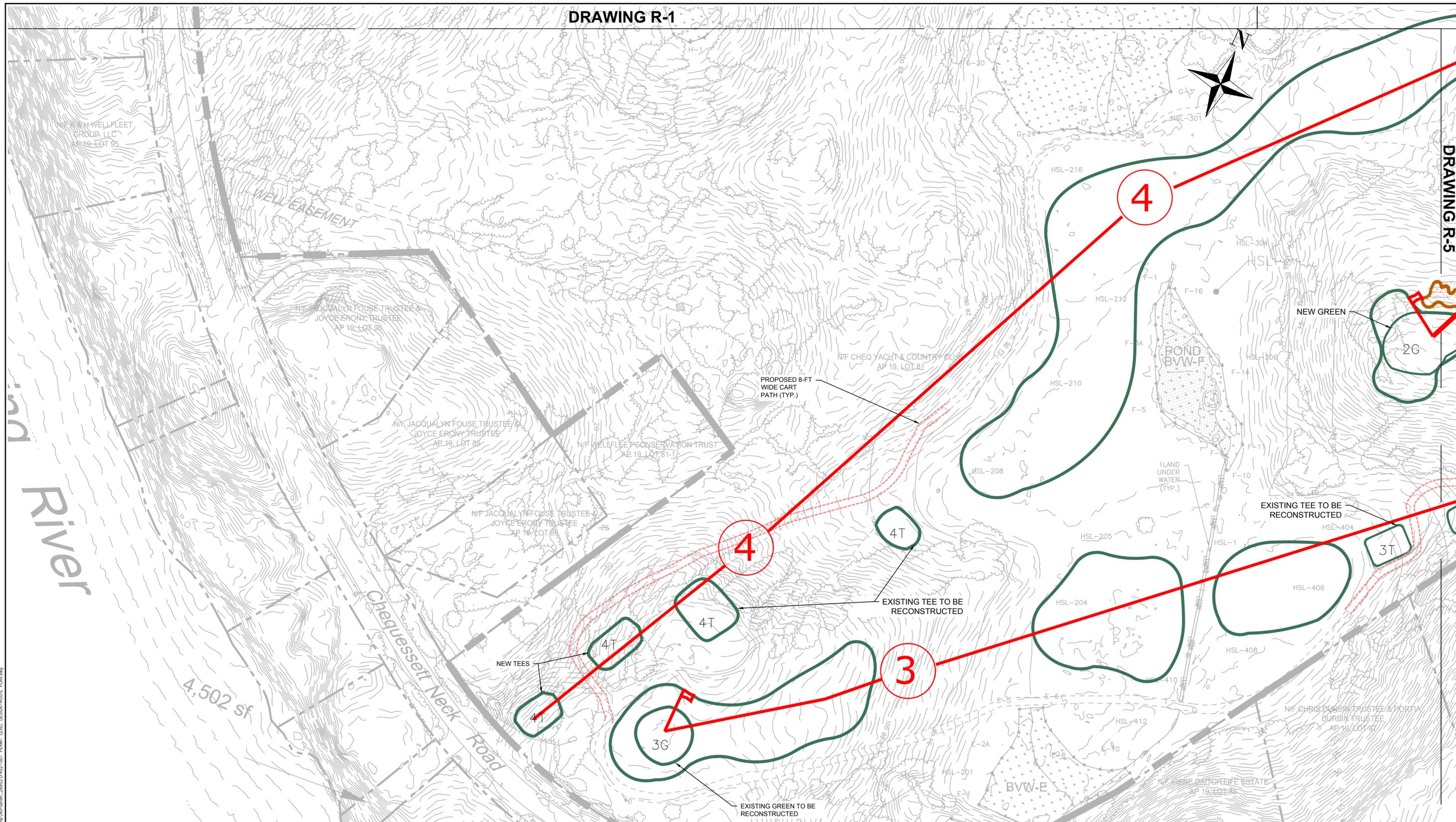
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DRAWING R-1



DRAWING R-5

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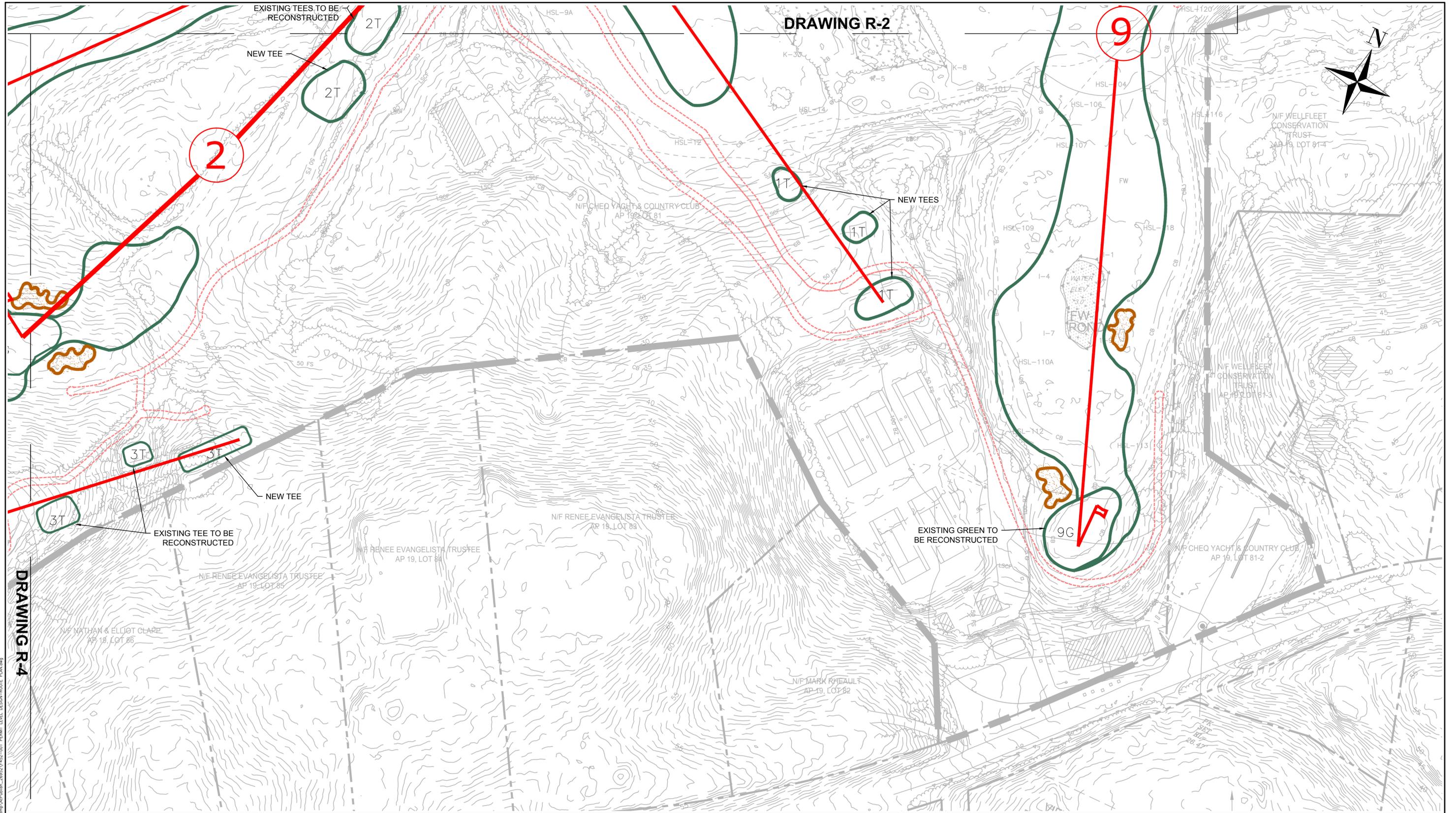
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DRAWING R-2

DRAWING R-4



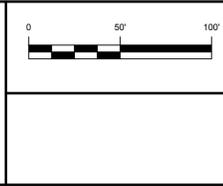
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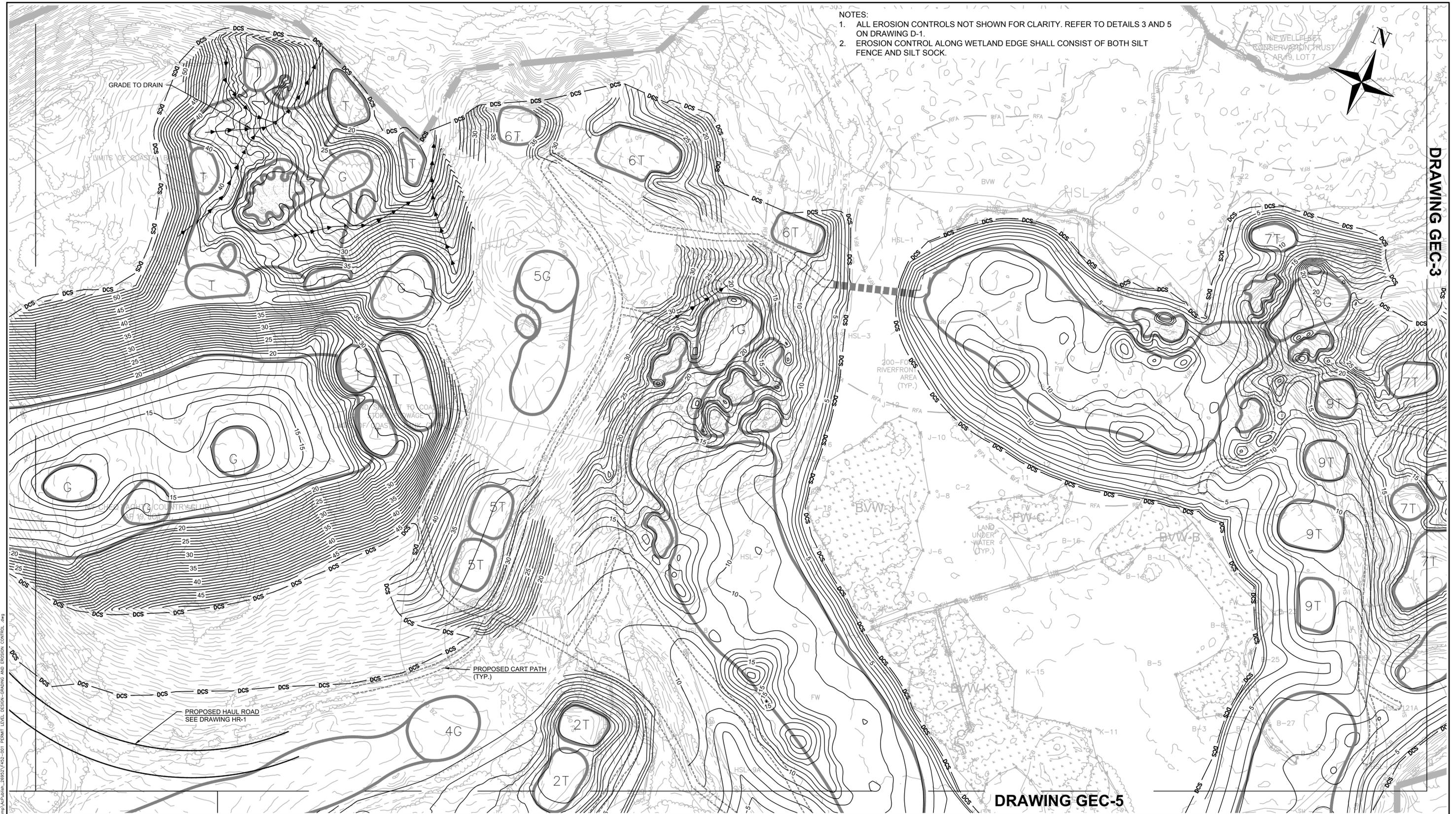
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ROUTE PLAN

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R-5

PROJECT NO: F452-001
DATE OF ISSUE: 09/13/2019
SHEET NO: 13 OF 31



- NOTES:
1. ALL EROSION CONTROLS NOT SHOWN FOR CLARITY. REFER TO DETAILS 3 AND 5 ON DRAWING D-1.
 2. EROSION CONTROL ALONG WETLAND EDGE SHALL CONSIST OF BOTH SILT FENCE AND SILT SOCK.

DRAWING GEC-3

DRAWING GEC-5

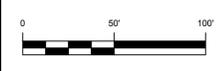
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GRADING & EROSION CONTROL

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GEC-2

PROJECT NO: F452-001
DATE OF ISSUE: 09/13/2019
SHEET NO: 15 OF 31

DATE: Sep 13, 2019 4:21 PM
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DRAWING GEC-2



- NOTES:
1. ALL EROSION CONTROLS NOT SHOWN FOR CLARITY. REFER TO DETAILS 3 AND 5 ON DRAWING D-1.
 2. EROSION CONTROL ALONG WETLAND EDGE SHALL CONSIST OF BOTH SILT FENCE AND SILT SOCK.

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GRADING & EROSION CONTROL

GEC-3

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PROJECT NO: F452-001
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SHEET NO: 16 OF 31

DRAWING GEC-1



- NOTES:
1. ALL EROSION CONTROLS NOT SHOWN FOR CLARITY. REFER TO DETAILS 3 AND 5 ON DRAWING D-1.
 2. EROSION CONTROL ALONG WETLAND EDGE SHALL CONSIST OF BOTH SILT FENCE AND SILT SOCK.

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Scale: 0 50' 100'

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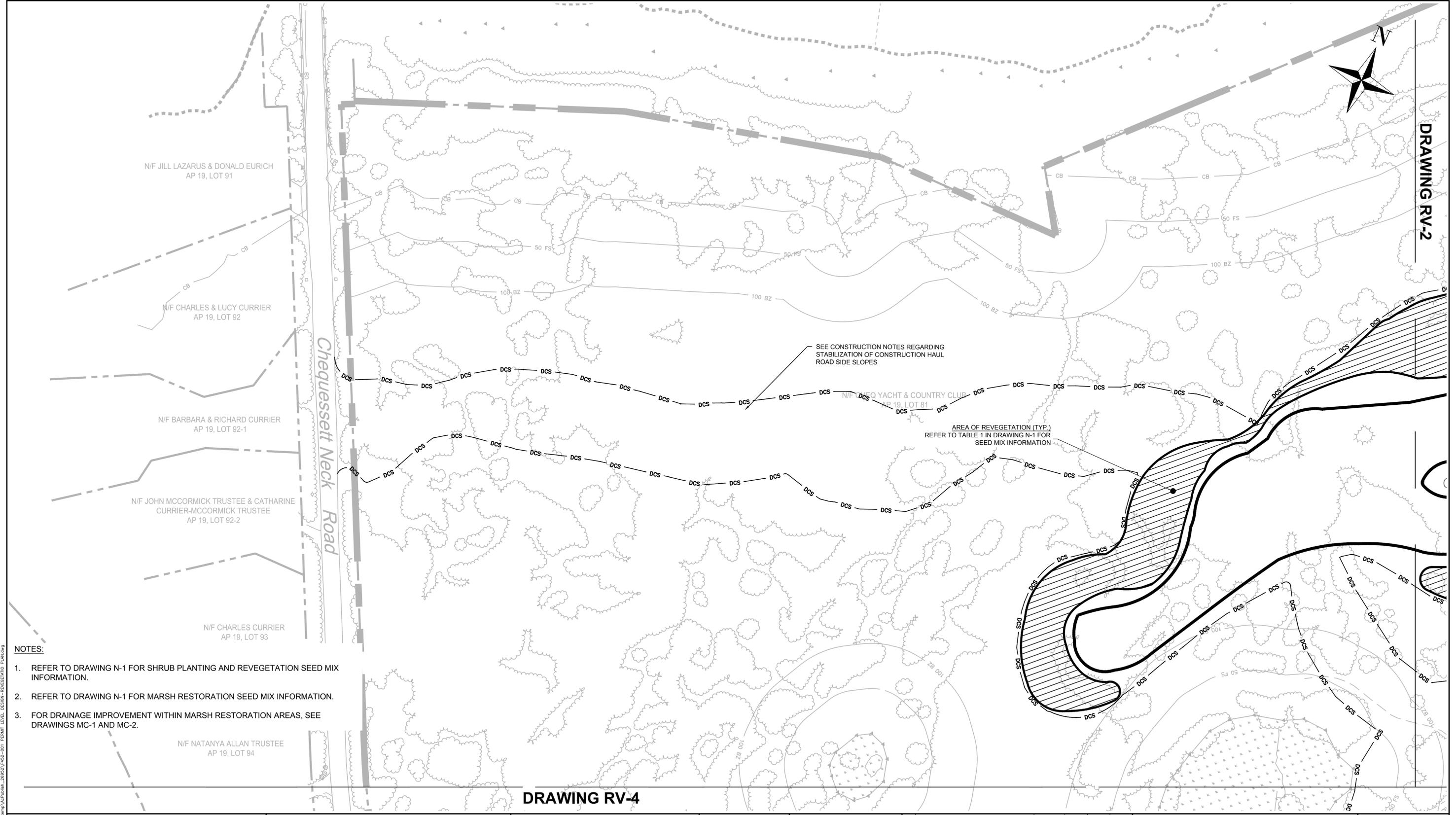
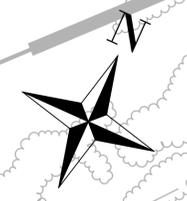
GRADING & EROSION CONTROL

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GEC-4

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SHEET NO: 17 OF 31

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DRAWING RV-4

- NOTES:**
1. REFER TO DRAWING N-1 FOR SHRUB PLANTING AND REVEGETATION SEED MIX INFORMATION.
 2. REFER TO DRAWING N-1 FOR MARSH RESTORATION SEED MIX INFORMATION.
 3. FOR DRAINAGE IMPROVEMENT WITHIN MARSH RESTORATION AREAS, SEE DRAWINGS MC-1 AND MC-2.

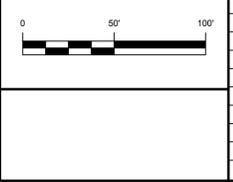
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REVEGETATION PLAN

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RV-1

PROJECT NO: F452-001
DATE OF ISSUE: 09/13/2019
SHEET NO: 19 OF 31

DRAWING RV-1



- NOTES:**
1. REFER TO DRAWING N-1 FOR SHRUB PLANTING AND REVEGETATION SEED MIX INFORMATION.
 2. REFER TO DRAWING N-1 FOR MARSH RESTORATION SEED MIX INFORMATION.
 3. FOR DRAINAGE IMPROVEMENT WITHIN MARSH RESTORATION AREAS, SEE DRAWINGS MC-1 AND MC-2.

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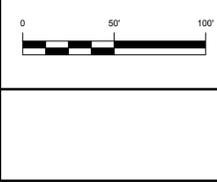
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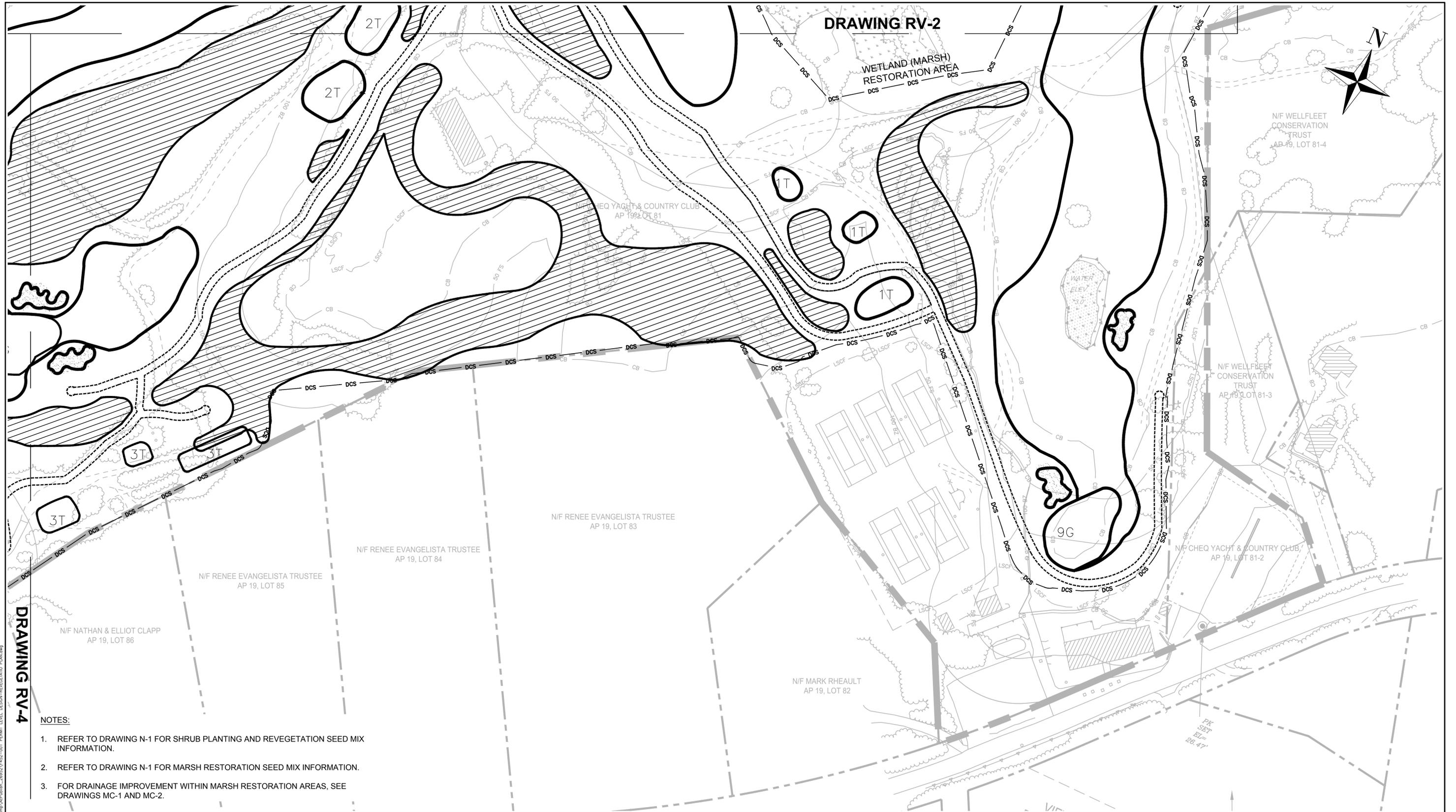
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REVEGETATION PLAN

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RV-4

PROJECT NO: F452-001
 DATE OF ISSUE: 09/13/2019
 SHEET NO: 22 OF 31



DRAWING RV-2

WETLAND (MARSH)
RESTORATION AREA



DRAWING RV-4

NOTES:

1. REFER TO DRAWING N-1 FOR SHRUB PLANTING AND REVEGETATION SEED MIX INFORMATION.
2. REFER TO DRAWING N-1 FOR MARSH RESTORATION SEED MIX INFORMATION.
3. FOR DRAINAGE IMPROVEMENT WITHIN MARSH RESTORATION AREAS, SEE DRAWINGS MC-1 AND MC-2.

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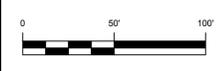
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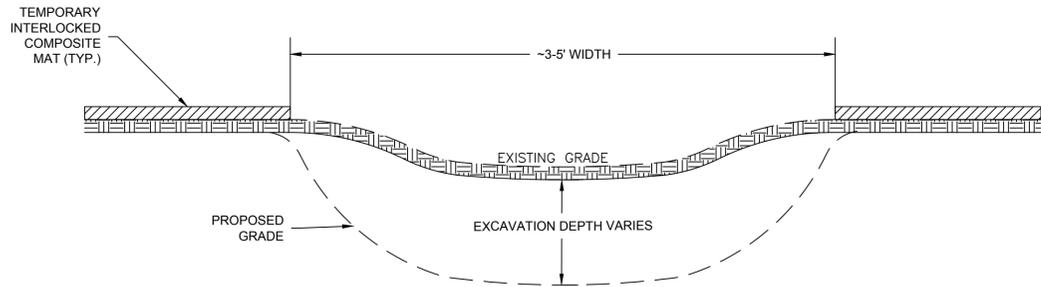


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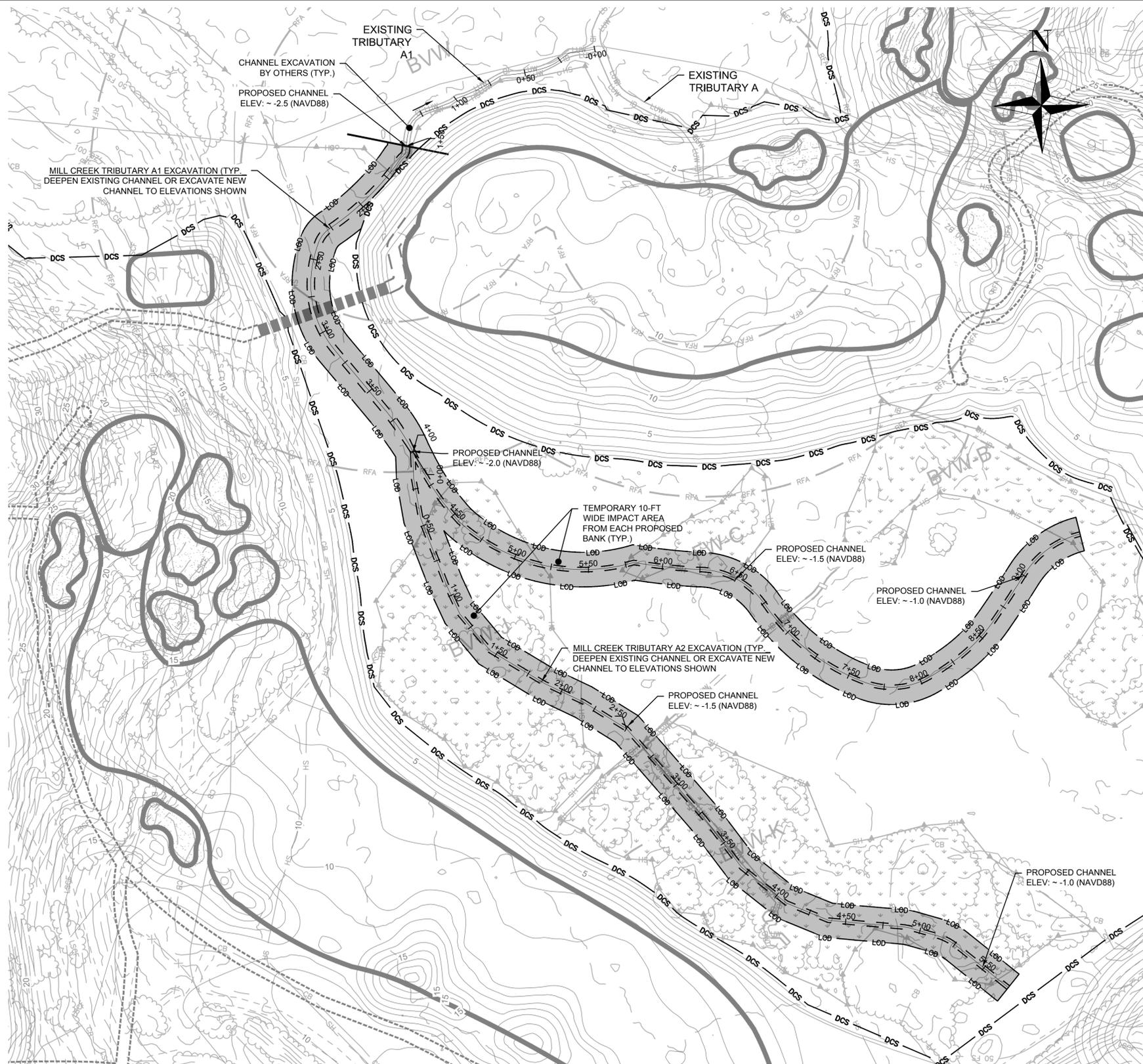
RV-5
 PROJECT NO: F452-001
 DATE OF ISSUE: 09/13/2019
 SHEET NO: 23 OF 31



TYPICAL DRAINAGE IMPROVEMENT SECTION

NOTES:

- EXCAVATE MILL CREEK MAIN CHANNEL (STA. 29+50 TO 44+00) AND LOWER REACH OF TRIBUTARY A1 (STA. 1+50 TO 4+00) TO APPROXIMATE ELEVATION -2.5 FEET (NAVD88). EXISTING CHANNEL SECTIONS ARE TYPICALLY 5 FEET IN WIDTH. MATCH APPROXIMATE SECTION WIDTH FOR NEW CHANNEL SEGMENTS ALONG TRIBUTARY A1.
- EXCAVATE UPPER REACH OF TRIBUTARY A1 (STA. 4+00 TO 9+50) AND TRIBUTARY A2 (STA. 0+00 TO 5+75) TO ELEVATIONS SHOWN ON PLANS (APPROXIMATE ELEVATIONS -2.0 TO -1.0 FEET) (NAVD88). EXCAVATE TRIBUTARY C (STA. 0+00 TO 4+00) TO ELEVATIONS SHOWN ON PLANS (APPROXIMATE ELEVATIONS -2.0 TO -0.5 FEET) (NAVD88). EXISTING CHANNEL SECTIONS ARE TYPICALLY 3 FEET OM WIDTH. MATCH APPROXIMATE WIDTH FOR NEW CHANNEL SEGMENTS ALONG EACH TRIBUTARY.



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 PROJECT: MILL CREEK IMPROVEMENTS.dwg
 DESIGNER: DWB
 CHECKER: DSB
 DATE: 09/13/2019
 SHEET: 25 OF 31



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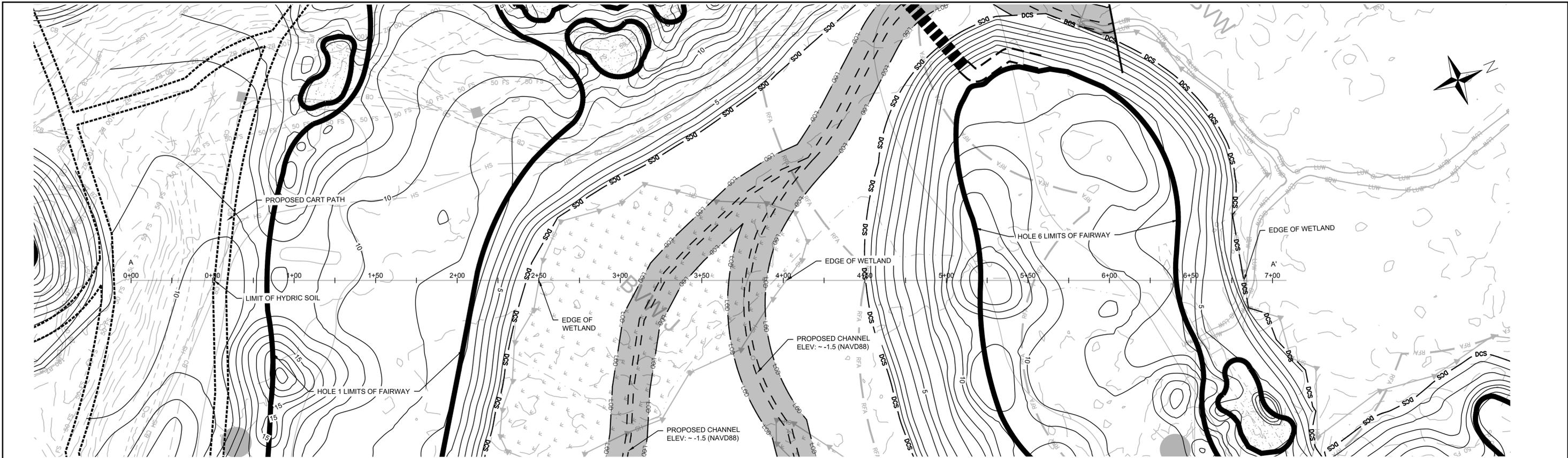
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MILL CREEK DRAINAGE IMPROVEMENTS

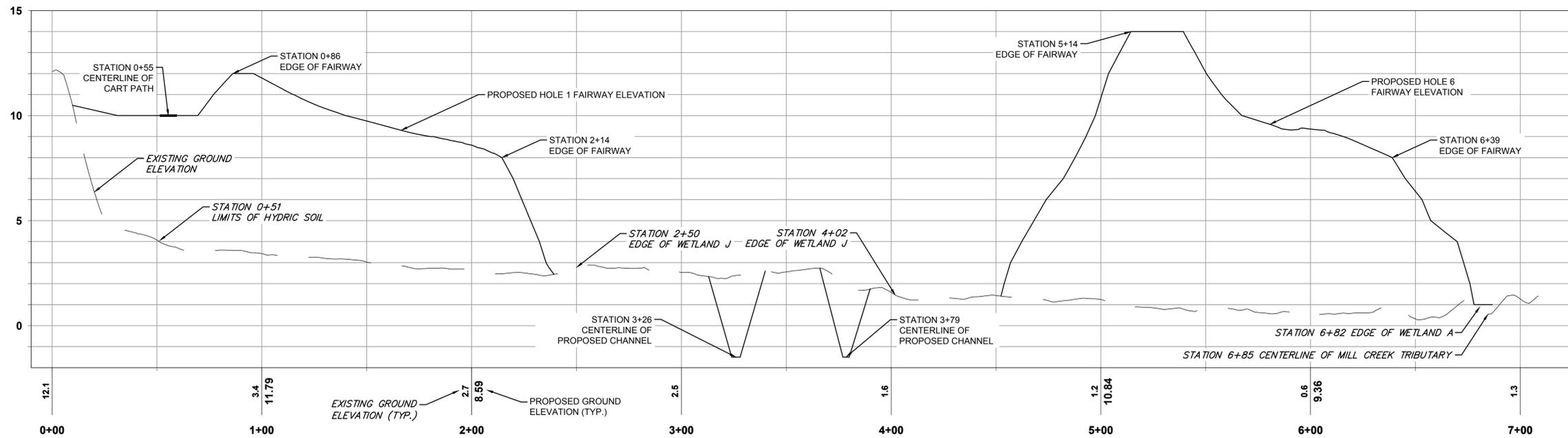
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MC-1

PROJECT NO: F452-001
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SECTION A-A' (WETLAND ENCHROACHMENT)



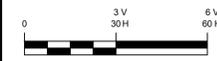
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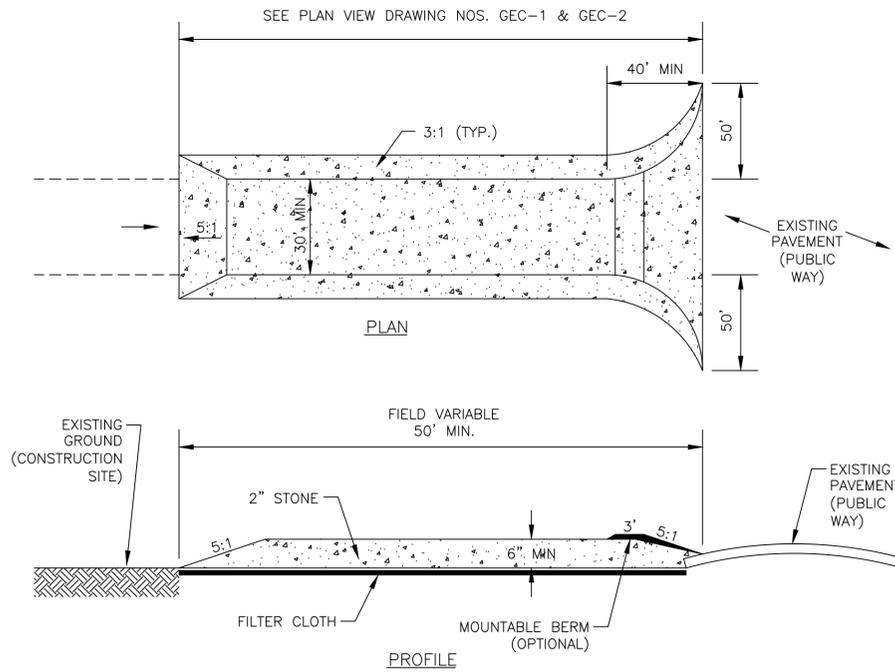
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WETLAND ENCROACHMENT SECTION A-A'
DRAFT-NOT FOR CONSTRUCTION

P-2
 PROJECT NO: F452-001
 DATE OF ISSUE: 09/13/2019
 SHEET NO: 28 OF 31

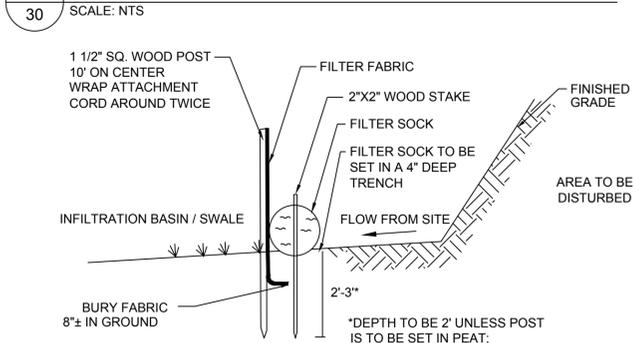


1 TYPICAL CONSTRUCTION EGRESS



- NOTES:**
- SIGN SHALL BE NOT LESS THAN 2 SQUARE FEET OR MORE THAN 3 SQUARE FEET IN SIZE.
 - THE LOCATION OF THE SIGN IS TO BE DETERMINED BY THE ENGINEER AND THE OWNER.
 - SIGN BACKGROUND SHALL BE WHITE.
 - SIGN LETTERING SHALL BE BLACK, AND AT LEAST 1 1/2 INCHES TALL.
 - SIGN SHALL NOT BE ATTACHED TO A LIVE TREE.

2 WETLANDS PROTECTION ACT SIGN

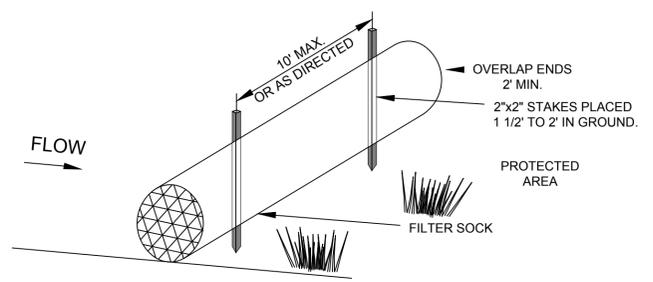


3 TYPICAL FILTER SOCK & SILT FENCE

- NOTE:**
- INSTALL FILTER SOCK AND SILT FENCE COMBINATION UPSTREAM OF PROPOSED WORK ALONG WETLAND EDGES.
 - REFER TO TABLE 1 FOR MAXIMUM ALLOWED SLOPE LENGTHS AND SPACING.

CONSTRUCTION SPECIFICATIONS:

- USE 2" DIAMETER STONE OR RECLAIMED/RECYCLED CONCRETE EQUIVALENT.
- RECOMMENDED LENGTH GREATER THAN 50 FEET WHERE PRACTICAL.
- THICKNESS NOT LESS THAN 6 INCHES.
- 30-FOOT MINIMUM WIDTH, BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR.
- FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION EGRESS SHALL BE PIPED ACROSS THE EGRESS. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WILL BE PERMITTED.
- EGRESS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR.
- REMOVE STABILIZED CONSTRUCTION EGRESS PRIOR TO PLACEMENT OF HOT MIX ASPHALT PAVEMENT.
- EXACT LOCATION OF CONSTRUCTION EGRESS SHALL BE APPROVED BY OWNERS REPRESENTATIVE BEFORE INSTALLATION.



ANCHORING DETAIL

CONSTRUCTION SPECIFICATIONS

- FILTER SOCKS SHALL BE FILTREXX SILTISOXX, OR EQUIVALENT APPROVED BY THE OWNER. FILTER SOCK AND COMPOST MATERIALS SHALL BE IN ACCORDANCE WITH AASHTO MP 9-06, LATEST REVISION.
- FILTER SOCKS SHALL BE 12 INCHES IN DIAMETER.
- FILTER SOCKS SHALL BE PLACED IN ACCORDANCE WITH THIS PLAN SET AND IN A ROW WITH ENDS OVERLAPPING 2 FEET (MIN.).
- FILTER SOCKS SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES, 10 FEET ON CENTER (MAX).
- INSPECTION SHALL BE FREQUENT AND REPAIR AND/OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- FILTER SOCKS SHALL NOT BE MOVED TO OTHER LOCATIONS IN THE PROJECT ONCE PLACED.
- FILTER SOCKS TO BE INSTALLED AT TOP AND BOTTOM OF SLOPES. ADDITIONAL FILTER SOCKS TO BE INSTALLED PER TABLE 2.

5 TYPICAL FILTER SOCK

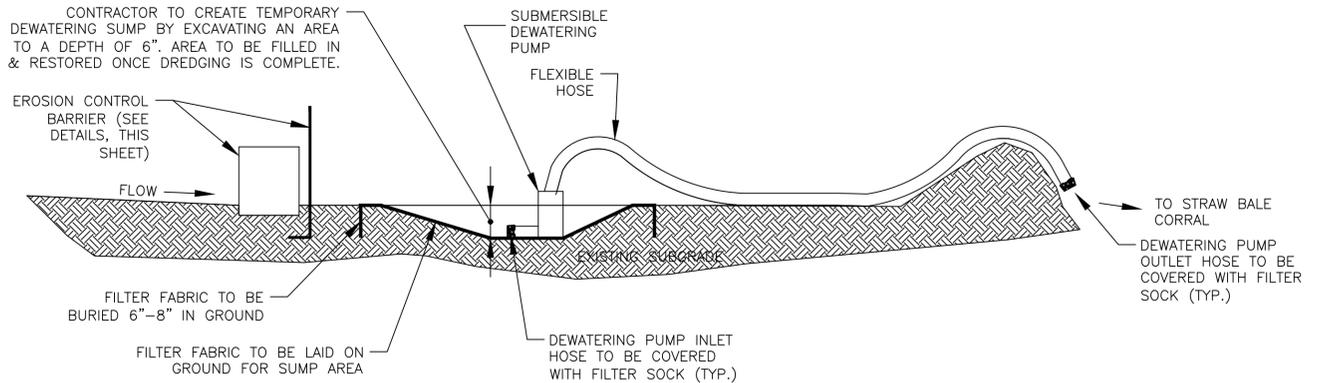
TABLE 1: SILT FENCE MAXIMUM ALLOWABLE SLOPE LENGTHS

GRADE	MAXIMUM FLOW LENGTH (FT)
50%	25
33%	50
25%	75
20%	100

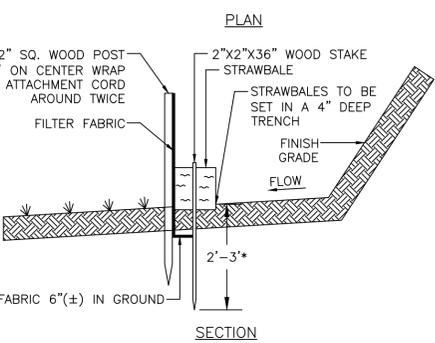
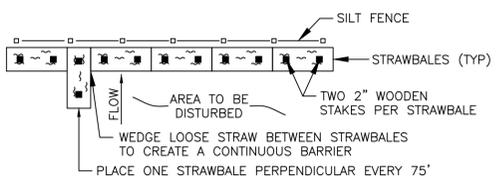
TABLE 2: 12-INCH FILTER SOCK MAXIMUM ALLOWABLE SLOPE LENGTHS

GRADE	MAXIMUM FLOW LENGTH (FT)
2% OR LESS	300
5%	200
10%	100
15%	70
20%	50
25%	40
30%	30
>33%	30

- NOTE:**
- SILT FENCE AND FILTER SOCK ALLOWABLE SLOPES LENGTHS AND SPACING OBTAINED FROM RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, ISSUED 1989, LAST REVISED 2014.

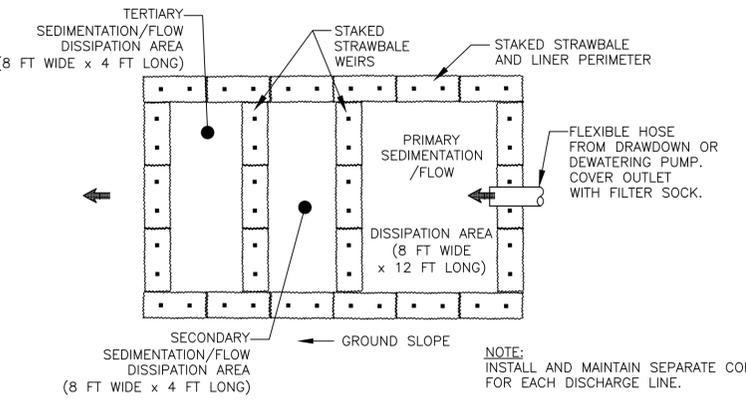


4 IN-POND DEWATERING AREA DETAIL



- NOTE:**
- * = DEPTH TO BE 2' UNLESS POST IS TO BE SET IN PEAT. IN PEAT DRIVE BEYOND 2' DEPTH BY HAND TO REFUSAL OR 3' MAX.

6 IN-POND DEWATERING AREA EROSION CONTROL BARRIER



7 STRAWBALE FLOW DISSIPATION CORRAL

HOWARD MAURER GOLF COURSE DESIGN, LLC
NEWBURY, NEW HAMPSHIRE
603-763-0583
HOW.MAURER@GMAIL.COM

CYCC RECONFIGURATION
AP 19 LOT 81
680 CHEQUESSETT NECK ROAD
WELLFLEET, MA

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No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: DWB DESIGNED BY: DSB CHECKED BY:

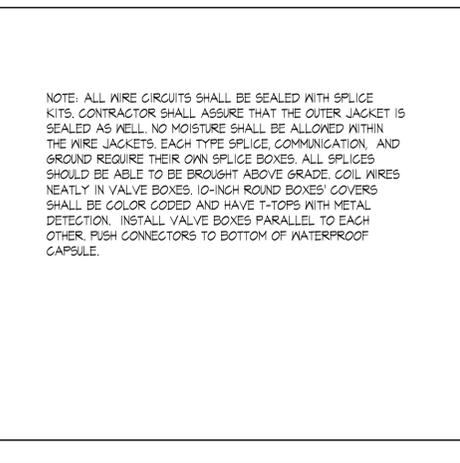
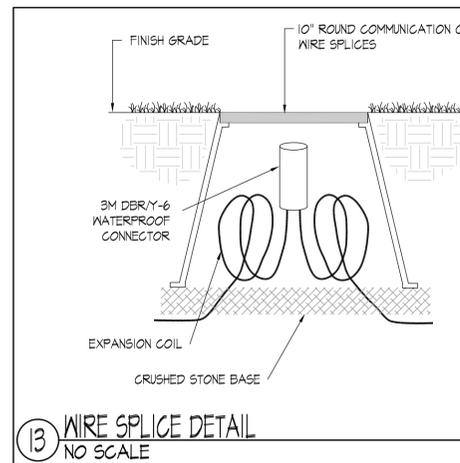
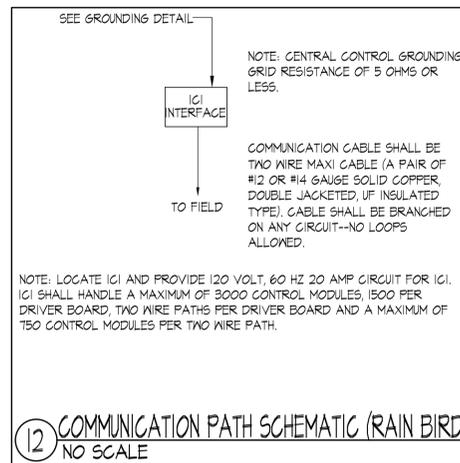
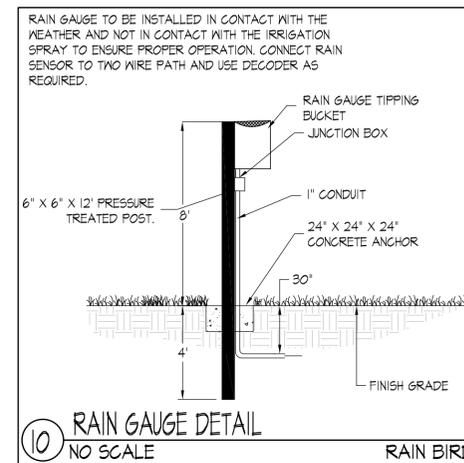
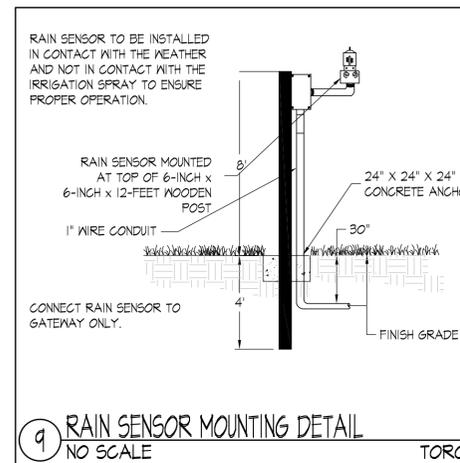
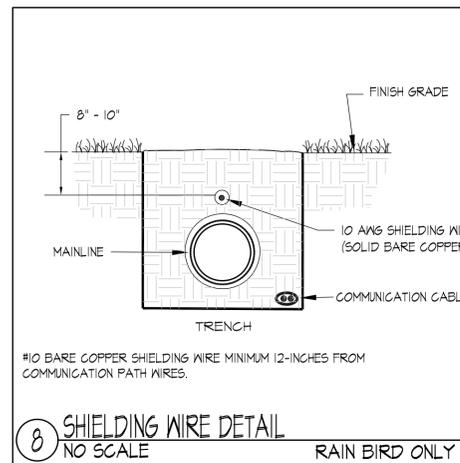
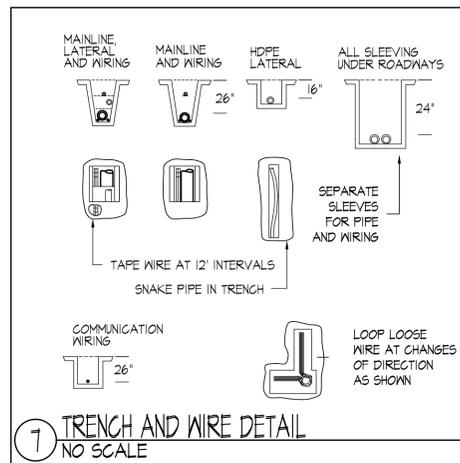
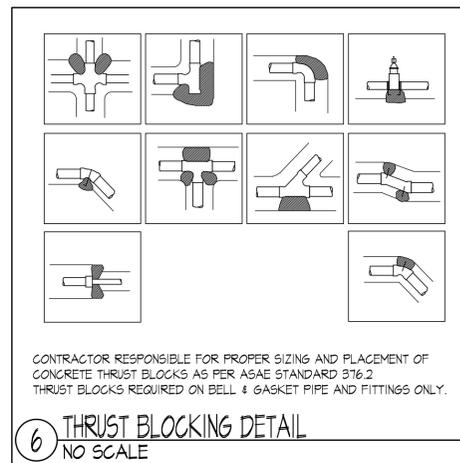
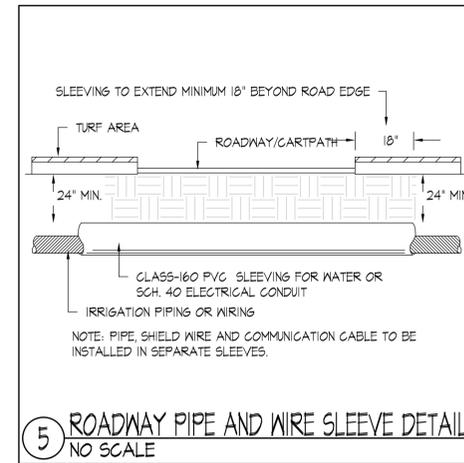
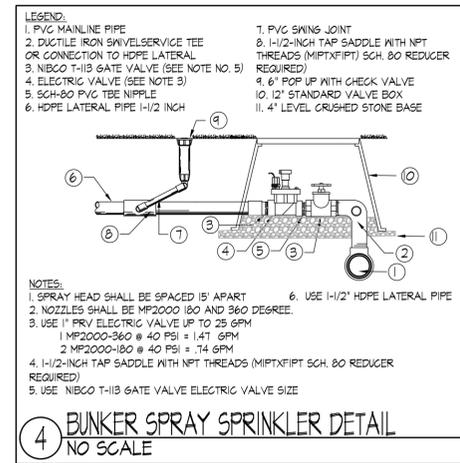
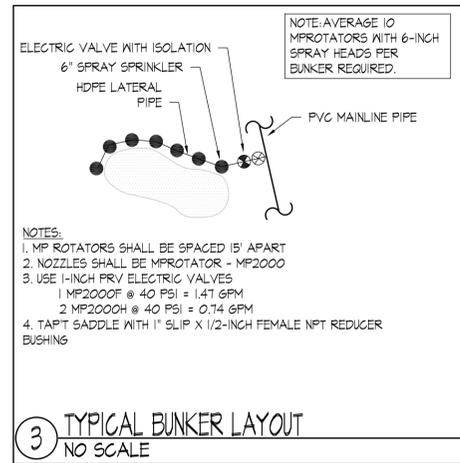
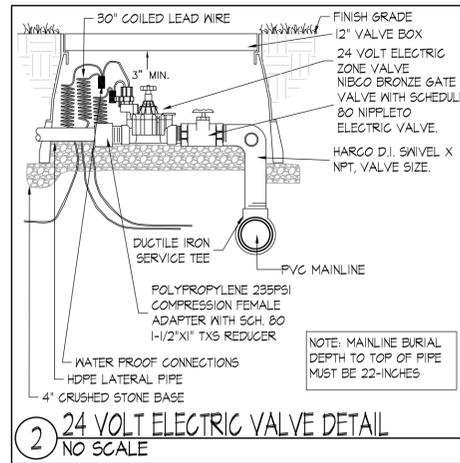
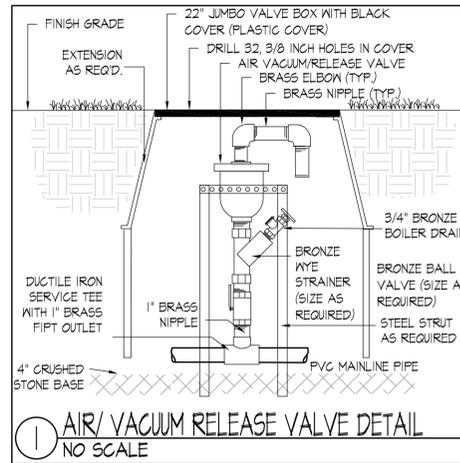
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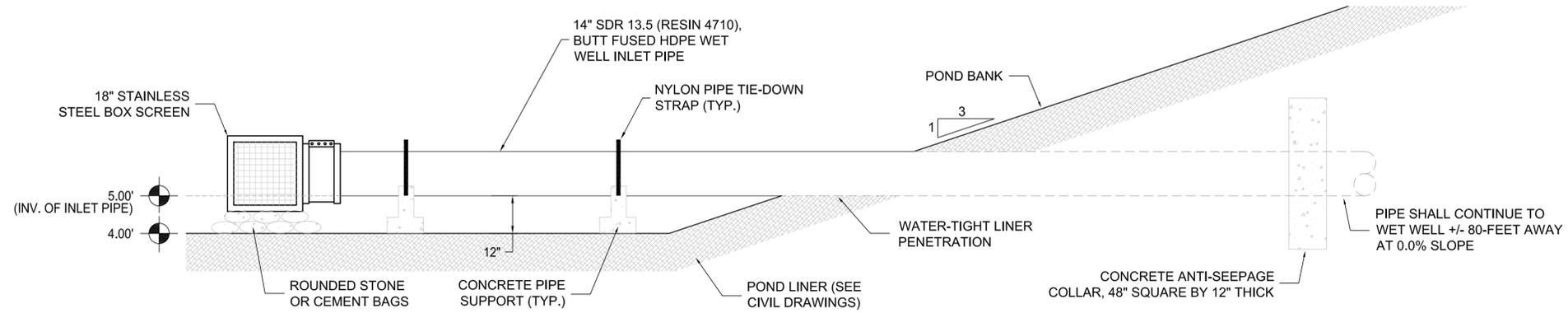
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D-1

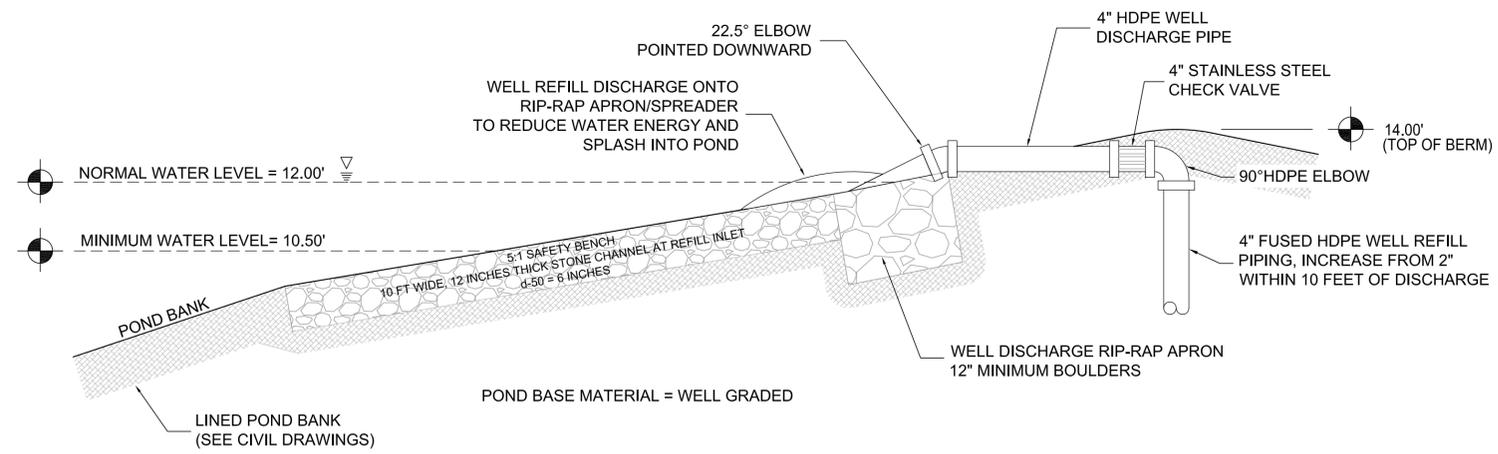
PROJECT NO: F452-001
DATE OF ISSUE: 09/13/2019
SHEET NO: 30 OF 31

DATE: Sep 13, 2019 - 5:36PM
FILENAME: J:\452-001-Finals of Herring River - CYCC Phase 2-Permit-Level Design\04-06\Drawings\CYCC-Permit-Level-Design-Details.dwg
DESIGNER: JLV
DRAWN: DWB
CHECKED: DSB
DATE: 09/13/2019
SHEET: 30 OF 31





① WET WELL INTAKE/FLUME PIPE DETAIL
 Scale: 1/2" = 1'



② POND REFILL PIPE DISCHARGE DETAIL
 Scale: 1/2" = 1'

IRRIGATION CONSULTING, INC.
 20 MERRIT PARKWAY, SECOND FLOOR
 NASHUA, NH 03062
 PH. 978.433.8972
 WWW.IRRIGATIONCONSULTING.COM

HOWARD MAURER GOLF COURSE DESIGN, LLC
 NEWBURY, NEW HAMPSHIRE
 603-763-0583
 HOW.MAURER@GMAIL.COM

CYCC RECONFIGURATION
 AP 19 LOT 81
 680 CHEQUESSETT NECK ROAD
 WELLFLEET, MA

No.	REVISION	DATE	DRAWN	DESIGN	CHK

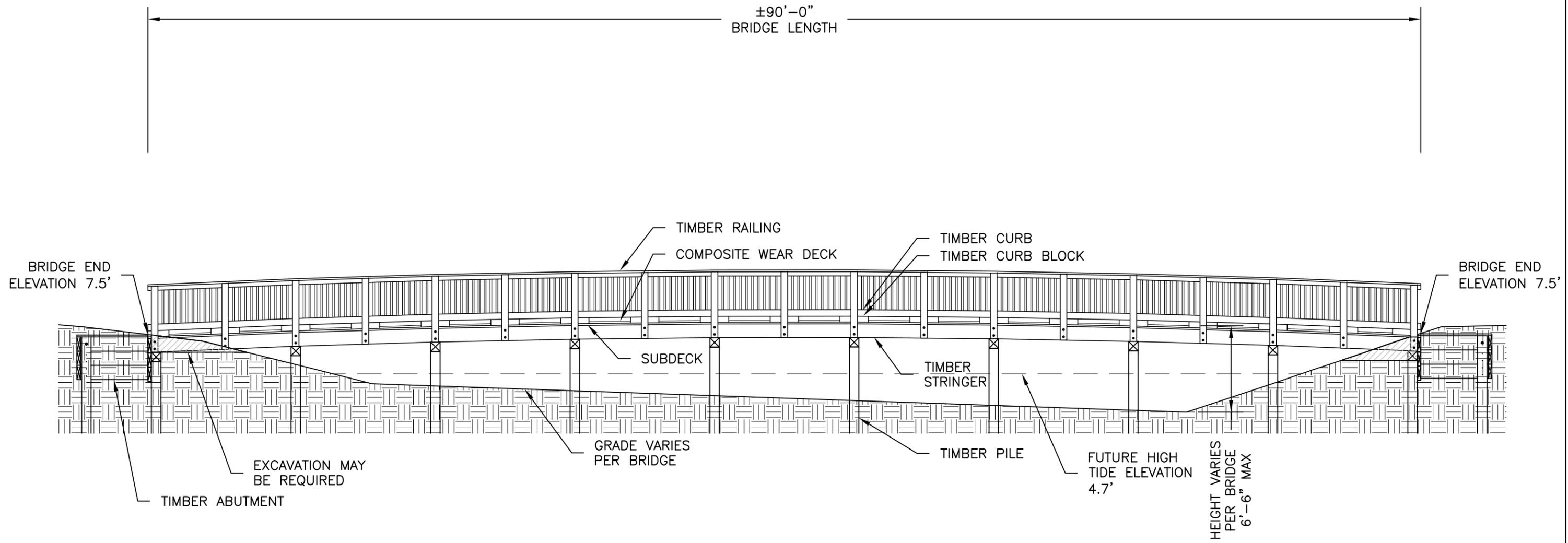
DRAWN BY: SG
 DESIGNED BY: SG
 CHECKED BY: JB

IRRIGATION PUMP DETAILS
 SHEET 2
 NOT FOR CONSTRUCTION

IR-1.8
 PROJECT NO: F452-001
 DATE OF ISSUE: 9/13/2019
 SHEET NO: ## OF ##

DATE: Sep 10, 2019 2:10PM
 Location: Howard Maurer Golf Course
 Draw: Permit Submittal Plans
 Designer: Howard Maurer

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NOTE:

1. DRAWING IS BASED ON PRELIMINARY INFORMATION RECEIVED FROM CLIENT TO DATE AND SHOULD BE CONSIDERED CONCEPTUAL IN NATURE. DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES
2. SCOPE DEPICTED IS FURTHER ARTICULATED WITHIN CORRESPONDING COST SUBMITTAL, ALL ITEMS IN THE COST SUBMITTAL SHALL BE CONSIDERED GOVERNING INFORMATION

1 TYPICAL ELEVATION VIEW
SCALE: NTS



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lutz, fl 33558
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f: 800.836.1274

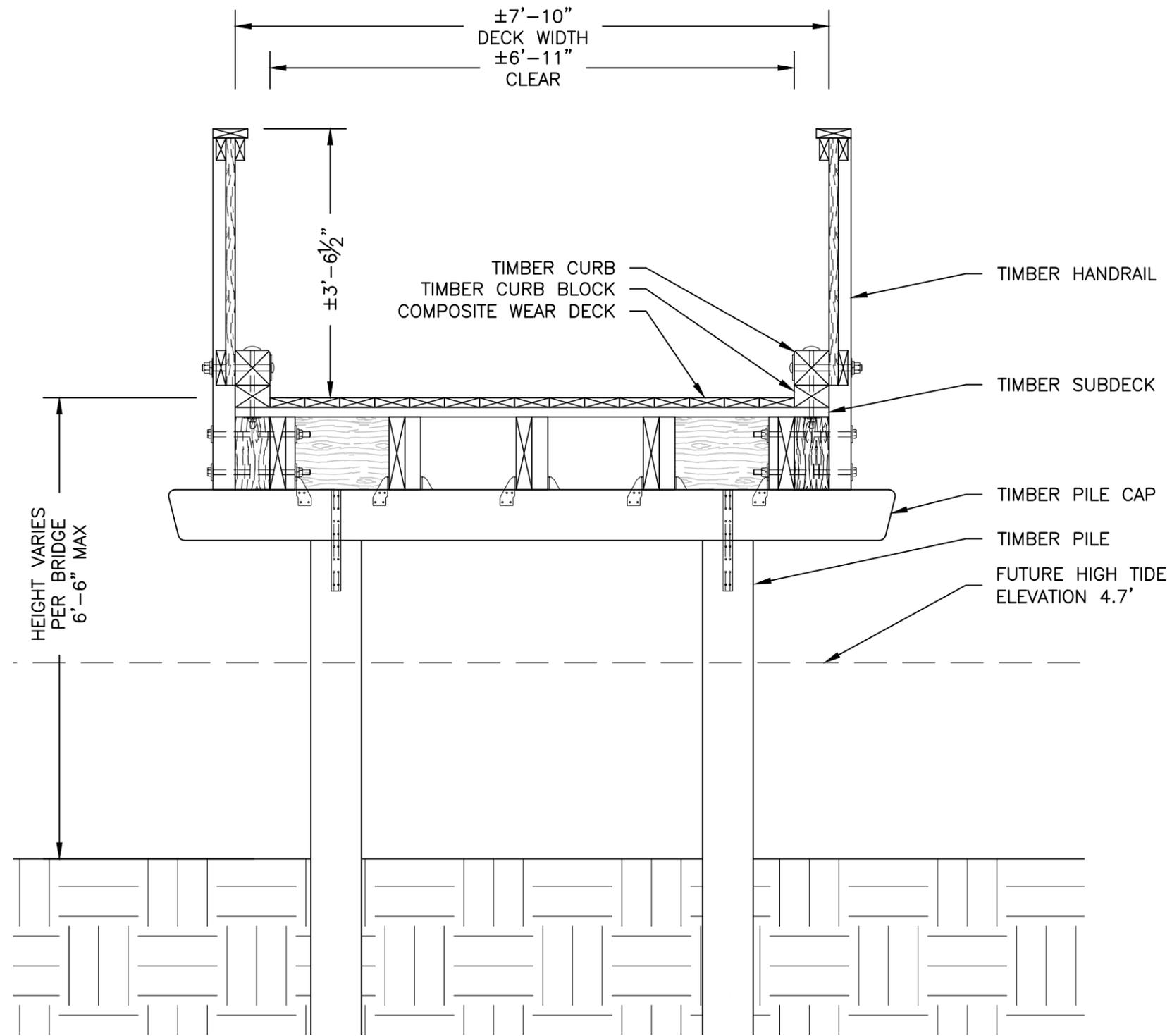
TIMBER CART BRIDGE

CHEQUESSETT YACHT & COUNTRY CLUB
WELLFLEET, MASSACHUSETTS

CONCEPT
ELEVATION

DESIGNED LOADING
5 TON GVW (L/500 DEFLECTION)
OR 7.5 TON GVW (L/500 DEFLECTION)

DATE/TIME: September 12, 2019	DRAWN BY: V. FALZONE	PROJECT NUMBER: ###-###	SHEET NUMBER: 201
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1 SECTION VIEW
SCALE: NTS

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YORK

BRIDGE CONCEPTS

The Premier Timber Bridge Company

TIMBER CART BRIDGE

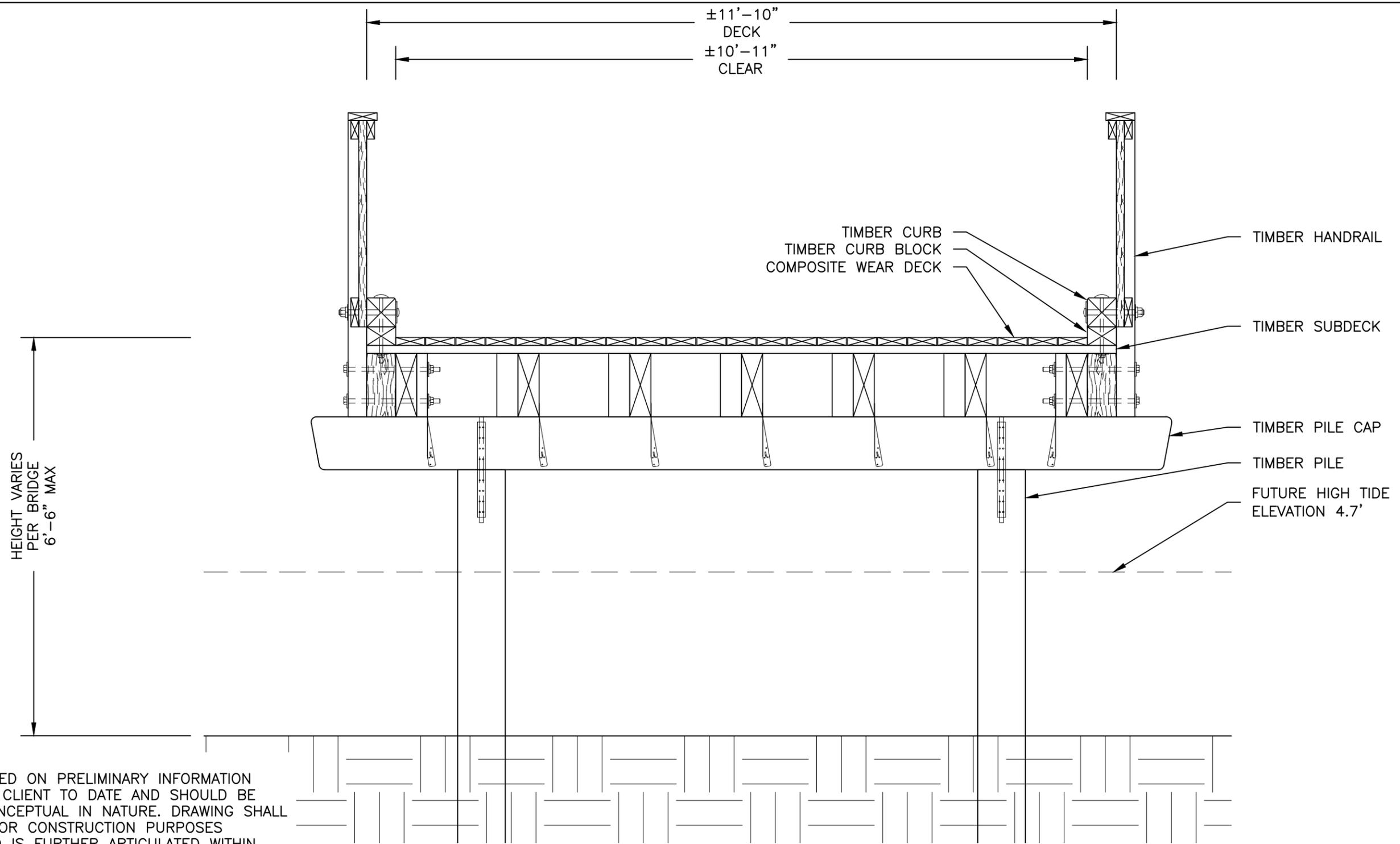
CHEQUESSETT YACHT & COUNTRY CLUB

WELLFLEET, MASSACHUSETTS

CONCEPT SECTION

DESIGNED LOADING
5 TON GWW (L/500 DEFLECTION)

DATE/TIME: September 12, 2019	DRAWN BY: V. FALZONE	PROJECT NUMBER: ###-###	SHEET NUMBER: 301
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1 SECTION VIEW
SCALE: NTS

YORK
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TIMBER CART BRIDGE

CHEQUESSETT YACHT & COUNTRY CLUB
 WELLFLEET, MASSACHUSETTS

CONCEPT SECTION

DESIGNED LOADING
7.5 TON GVW (L/500 DEFLECTION)

DATE/TIME: September 12, 2019	DRAWN BY: V. FALZONE	PROJECT NUMBER: ###-###	SHEET NUMBER: 302
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