

**LEGEND**

- EXISTING CONTOUR
- BOTTOM OF SEDIMENT
- EDGE OF WATER / STATE OPEN WATER
- EXISTING TREELINE
- EXISTING EDGE OF PAVEMENT
- X X --- EXISTING EDGE OF GRAVEL
- LONGITUDINAL PROFILE
- CROSS SECTION LOCATION
- + 724.9 TOP OF SEDIMENT  
+ 722.1 BOTTOM OF SEDIMENT SPOT ELEVATION
- STA. 01+00 PROFILE STATIONING
- WETLAND LIMIT
- TRANSITION AREA - 300'

**GRAPHIC SCALE**

0 10 20 30 40 50 100 150 200 FEET

SCALE: 1" = 50'

**CALL BEFORE YOU DIG!**  
 NEW JERSEY LAW REQUIRES  
 3 WORKING DAYS NOTICE FOR  
 CONSTRUCTION PHASE AND 10 WORKING  
 DAYS IN DESIGN STAGE - STOP CALL  
 NEW JERSEY ONE CALL SYSTEM, INC.  
 REFERENCE NEW JERSEY TITLE 48, CHPT. 2, ARTICLE 9  
 1-800-272-1000

- PROJECT NOTES**
- NOTES:
- TOP OF SEDIMENT AND BOTTOM OF SEDIMENT ELEVATIONS DERIVED FROM PROBE MEASUREMENTS PERFORMED BY PRINCETON HYDRO, LLC MAY 16, 2014. WATER SURFACE ELEVATION AT TIME OF SURVEY WAS 731.29 FEET.
  - SITE FEATURES INCLUDING EDGE OF WATER DIGITIZED FROM 2012 ORTHOIMAGERY.
  - REGIONAL TOPOGRAPHY DERIVED FROM LIDAR.
  - DATA REFERENCED TO NEW JERSEY STATE PLANE COORDINATES, NAD83, FEET. ELEVATIONS REFERENCED TO NGVD29, FEET.
  - FRESHWATER WETLAND BOUNDARY LINES AS VERIFIED BY NJDEP OCTOBER 9, 2001. NJDEP FILE NO. 1435-90-0026.3.1, AS REFERENCED BY HALEY AND ALDRICH, 2014.

DATE	DESCRIPTION
	REVISIONS

STATE OF NEW JERSEY CERTIFICATE OF AUTHORIZATION  
 NO.: 24GA27976800

**JACOB E. HELMINIAK**  
 Professional Engineer  
 NJ Lic. No. GE-46967

DATE



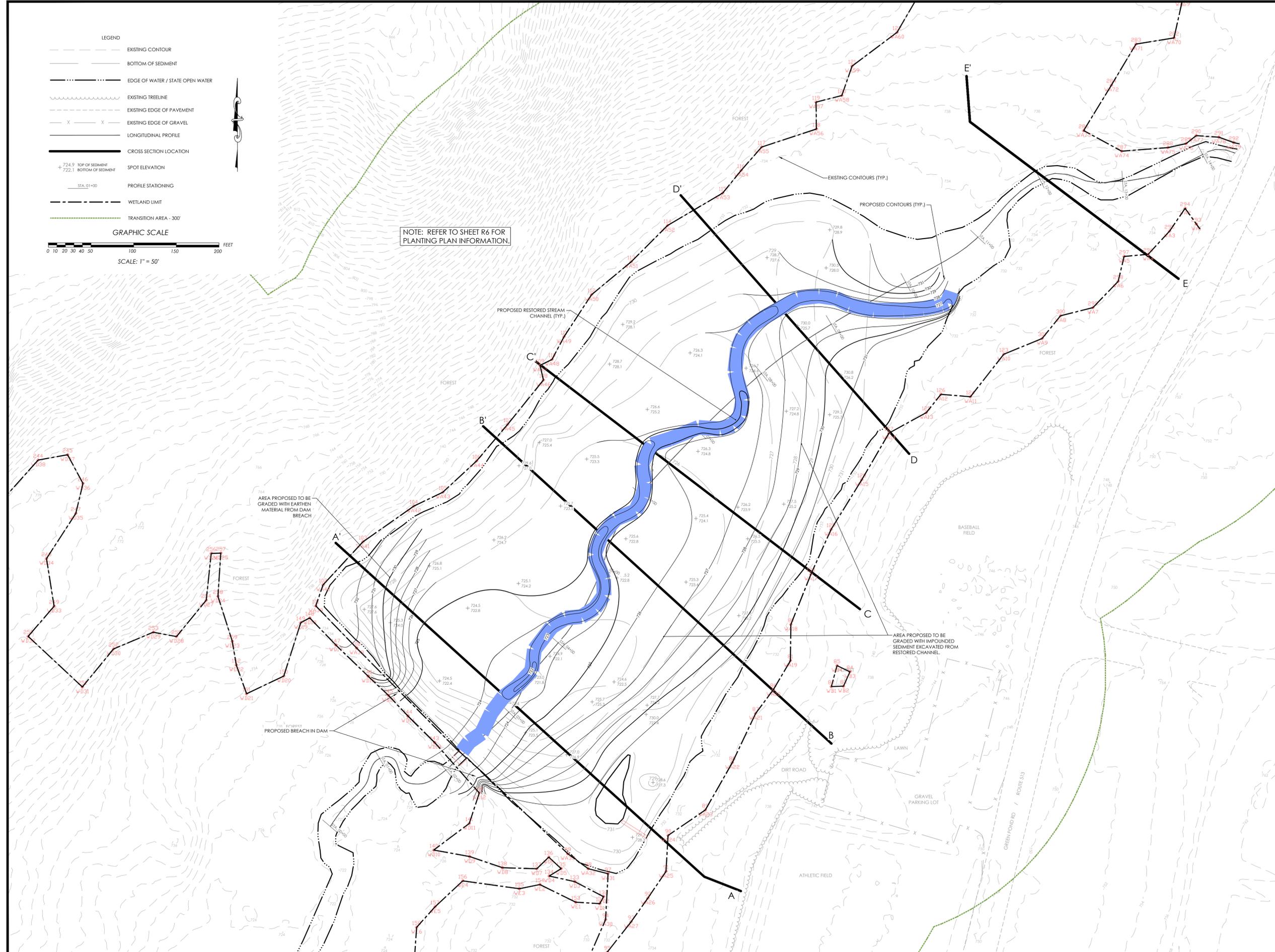
SCIENTISTS AND ENGINEERS  
 1108 OLD YORK ROAD, SUITE 1  
 P.O. BOX 720  
 RINGOES, NEW JERSEY 08551  
 PHONE: 908.237.5660  
 FAX: 908.237.5666  
 WWW.PRINCETONHYDRO.COM

PROJECT NAME/LOCATION:  
 LAKE HUDSONIA DAM REMOVAL &  
 HIBERNIA BROOK RESTORATION  
 ROCKAWAY TOWNSHIP  
 MORRIS COUNTY, NEW JERSEY

DRAWING NAME:  
 EXISTING CONDITIONS

DATE:	06/30/14
PROJECT NO.:	0883.003
SCALE:	1" = 50'
DRAWN BY:	CLP/PMW
CHECKED BY:	JEH

SHEET NO.  
**R1** OF **R6**



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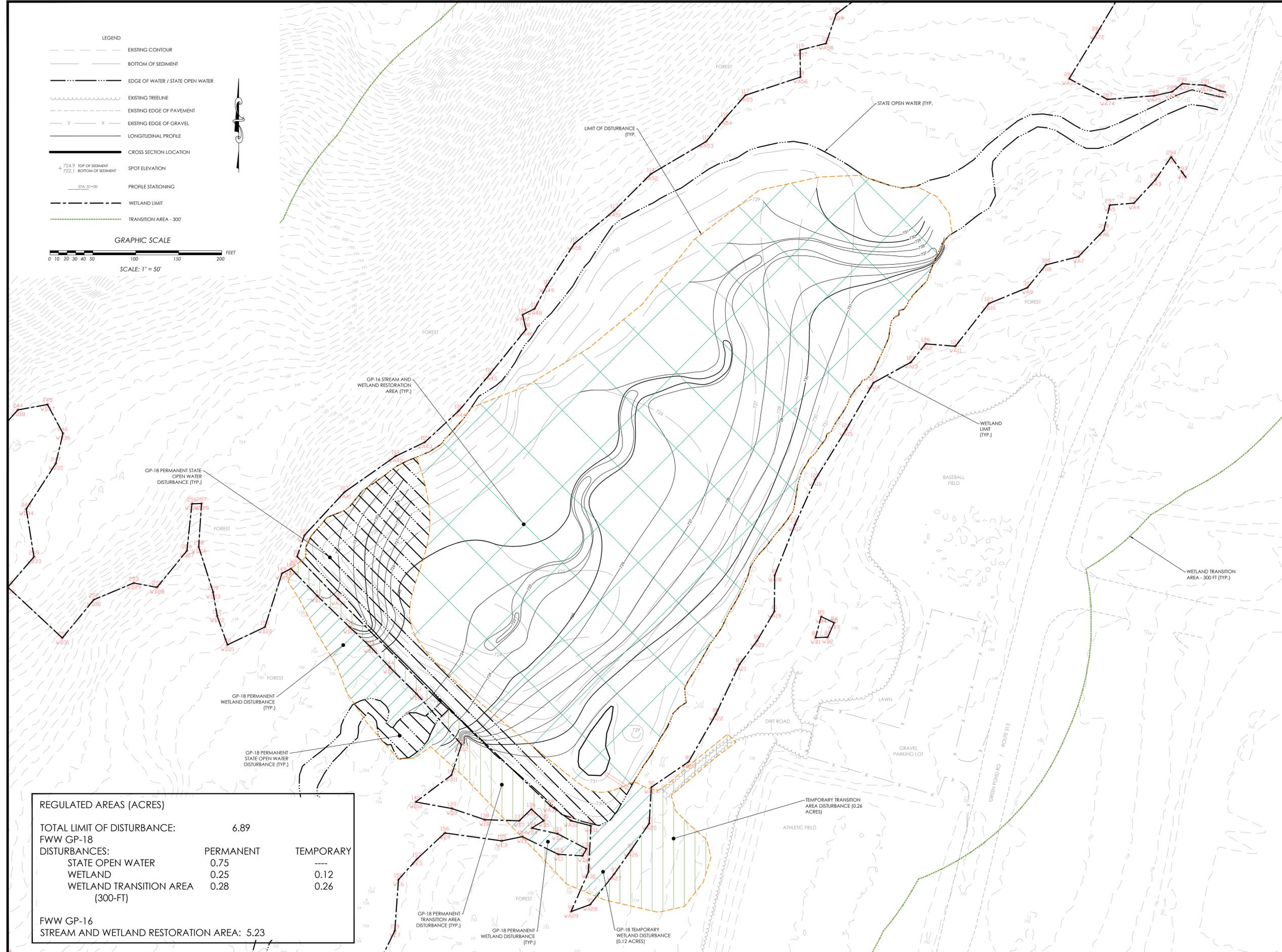
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DRAWING NAME:  
 PROPOSED CONDITIONS

DATE:	06/30/14
PROJECT NO.:	0883.003
SCALE:	1" = 50'
DRAWN BY:	PMW
CHECKED BY:	JEH

SHEET NO.  
**R2** OF **R6**



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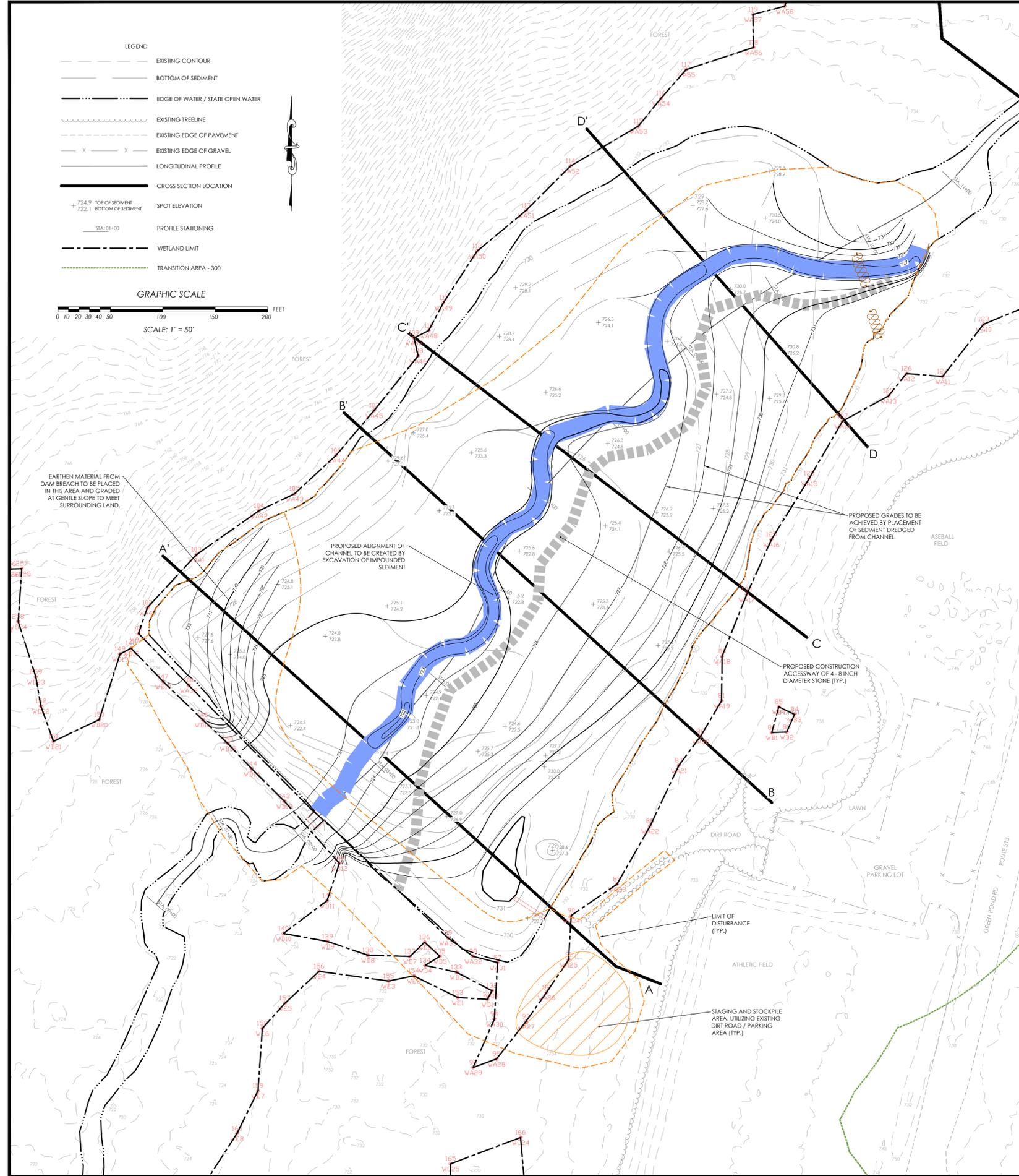
**REGULATED AREAS (ACRES)**

TOTAL LIMIT OF DISTURBANCE:	6.89	
FWW GP-18 DISTURBANCES:	PERMANENT	TEMPORARY
STATE OPEN WATER	0.75	---
WETLAND	0.25	0.12
WETLAND TRANSITION AREA (300-FT)	0.28	0.26
FWW GP-16 STREAM AND WETLAND RESTORATION AREA:	5.23	

DRAWING NAME:  
**REGULATED AREAS**

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SCALE:	1" = 50'
DRAWN BY:	CLP/PMW
CHECKED BY:	JEH

SHEET NO.  
**R3** OF **R6**



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CONSTRUCTION SEQUENCE: SEDIMENT MANAGEMENT AND WATER HANDLING PLAN LAKE HUDSONIA DAM REMOVAL AND HIBERNIA BROOK STREAM RESTORATION ROCKAWAY TOWNSHIP, NJ		DURATION
		WORK DAYS
CONSTRUCTION TIMING RESTRICTION : IN-STREAM WORK MARCH 15 - JUNE 15	THE PROJECT REACH IS DESIGNATED TROUT MAINTENANCE (FW2-TMC1); THEREFORE, IN-STREAM CONSTRUCTION ACTIVITIES ARE NOT PERMITTED DURING THE PERIOD MARCH 15 - JUNE 15.	---
CONSTRUCTION TIMING RESTRICTION : TREE CLEARING MARCH 15 - JULY 31 MARCH 1 - SEPTEMBER 30	- TREE CLEARING SHALL BE LIMITED TO THE EXTENT NECESSARY TO GAIN ACCESS AND MAKE FINAL GRADES. - CLEARING OF ANY TREES SHALL BE MINIMIZED AS MUCH AS PRACTICABLE DURING THE PERIOD MARCH 15 - JULY 31, TO AVOID DISTURBANCE TO NESTS OF MIGRATORY BIRDS. - CLEARING OF TREES > 5 INCH DIAMETER (DBH) SHALL BE MINIMIZED AS MUCH AS PRACTICABLE DURING THE PERIOD MARCH 1 - SEPTEMBER 30, TO AVOID DISTURBANCE TO INDIANA BAT.	---
SOIL AND SEDIMENT MANAGEMENT	RESULTS OF SEDIMENT SAMPLING AND LABORATORY ANALYSIS INDICATE THAT SEDIMENT QUALITY MEETS NJ DIRECT CONTACT RESIDENTIAL CRITERIA AND ECOLOGICAL SCREENING CRITERIA. HOWEVER, DUE TO MANAGED LAKES DOWNSTREAM, NO SUBSTANTIAL VOLUME OF IMPOUNDED SEDIMENT SHALL BE ALLOWED TO MIGRATE DOWNSTREAM. THE QUANTITY OF EXCAVATED MATERIAL HAS BEEN BALANCED WITH FILL MATERIAL; NO MATERIAL SHALL BE HAULED OFFSITE. AS PER N.J.A.C. 7:7A (FRESHWATER WETLAND PROTECTION ACT RULES), IN ORDER TO PROTECT THE FISHERY RESOURCES, NO ACTIVITY WHICH MAY INTRODUCE SEDIMENT INTO A STREAM OR CAUSE A STREAM TO BECOME TURBID SHALL BE PERFORMED DURING THE ABOVE LISTED IN-STREAM TIMING RESTRICTION (MARCH 15 - JUNE 16).	---
MOBILIZATION	STAGE EQUIPMENT AND MATERIALS IN DESIGNATED AREA.	2
E & S CONTROLS AND WATER HANDLING	INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS NEEDED, INCLUDING SILT FENCE, TREE PROTECTION, AND IN-STREAM SEDIMENT TRAP. CLEAR VEGETATION TO GAIN CONSTRUCTION ACCESS. INSTALL COFFER DAM AT LOCATION OF BYPASS CHANNEL.	5
INITIAL DEWATERING	REFER TO PREVIOUS SHEET BY HALEY & ALDRICH. INSTALL BYPASS CHANNEL WITH STABLE ROCK LINING AND STONE CHECK DAMS. IF NECESSARY, EXCAVATE SEDIMENTS UPSTREAM OF DAM TO GAIN GREATER WATER DEPTHS. OPEN COFFER DAM TO DRAWDOWN LAKE. EMPLOY PUMPS AND/OR SIPHONS TO FACILITATE DEWATERING OF NON-TURBID (CLEAR) WATER. LOWER WSEL TO APPROXIMATELY 726'.	5
FISH SALVAGE	ONCE WSEL IN LAKE IS LOWERED TO 726'; HARVEST FISH AND RELOCATE TO APPROVED RECEIVING WATERBODY AS PER PERMIT CONDITIONS.	5
SEDIMENT STABILIZATION	ALLOW EXPOSED SEDIMENTS AROUND LAKE EDGE TO DEWATER AND CONSOLIDATE OVER THE COURSE OF SEVERAL MONTHS, AS FEASIBLE.	90
FURTHER DEWATERING	DEWATER REMAINDER OF IMPOUNDMENT BY LOWERING CHECK DAMS IN BYPASS CHANNEL. INSTALL AND MAINTAIN TURBIDITY BARRIERS OR APPROVED MEASURE(S) TO FILTER FLOW DRAINING THROUGH BYPASS CHANNEL.	2
MECHANICAL DREDGING	ONCE PERIMETER SEDIMENTS HAVE DEWATERED AND SUFFICIENTLY CONSOLIDATED, CONSTRUCT ACCESSWAY OF 4-8 INCH DIAMETER STONE TO GAIN ACCESS TO PROPOSED CHANNEL ALIGNMENT. EXCAVATE SEDIMENT FROM PROPOSED CHANNEL ALIGNMENT AND DEPOSIT EAST OF STONE ACCESSWAY, UTILIZING ACCESSWAY AS CONTAINMENT BERM. DEPOSIT DREDGED SEDIMENT ALONG LAKE SHORE (WITHIN FORMER EDGE OF WATER ONLY) TO CREATE GENTLE SLOPES FROM SURROUNDING LAND.	10
CHANNEL STABILIZATION	AFTER EXCAVATED SEDIMENTS ARE PLACED AND GRADED, INSTALL EROSION CONTROL FABRIC AND PLACE ROCK FROM ACCESSWAY INTO CHANNEL BED AND ALONG BANKS.	10
REFER TO OTHER SHEETS FOR REMAINING STEPS		
DAM BREACH DEWATERING	REFER TO PREVIOUS SHEETS BY HALEY & ALDRICH. INSTALL COFFER DAM AS NECESSARY AROUND BREACH ZONE. EXCAVATE MATERIAL. SEPARATE GRAVEL/COBBLE/BOULDERS FOR REUSE IN CHANNEL AND STOCKPILE SOIL FOR RE-GRADING ON SITE.	5
DAM BREACH STABILIZATION	STABILIZE CHANNEL BOTTOM WITH BOULDERS. USE COBBLES/GRAVEL AS INFILL. STABILIZE SECONDARY SPILLWAY WITH 4-8 INCH STONE FROM ACCESSWAY. REMOVE COFFER DAM AND ALLOW FLOW THRU PRIMARY CHANNEL.	3
REMOVE WATER CONTROL	REMOVE COFFER DAMS AND BYPASS CHANNEL AND BACKFILL AREA.	4
SITE RESTORATION	SEED AND PLANT FLOODPLAIN AS PER PLANTING PLAN. ANY OTHER DISTURBED AREAS SHALL BE STRAW MULCHED AND SEEDED WITH UPLAND / RIPARIAN SEED MIX AS PER PLANTING PLAN.	10
CLOSE-OUT	CONDUCT FINAL WALK THROUGH WITH ENGINEER AND CLIENT. COMPLETE ALL ITEMS ON FINAL WALK THROUGH CHECKLIST. DEMOBILIZE EQUIPMENT.	5
TOTAL ESTIMATED WORK DAYS:		156

NOTE: DURATION OF CONSTRUCTION MAY VARY DUE TO STORM EVENTS AND EXTENDED DE-WATERING PERIOD.

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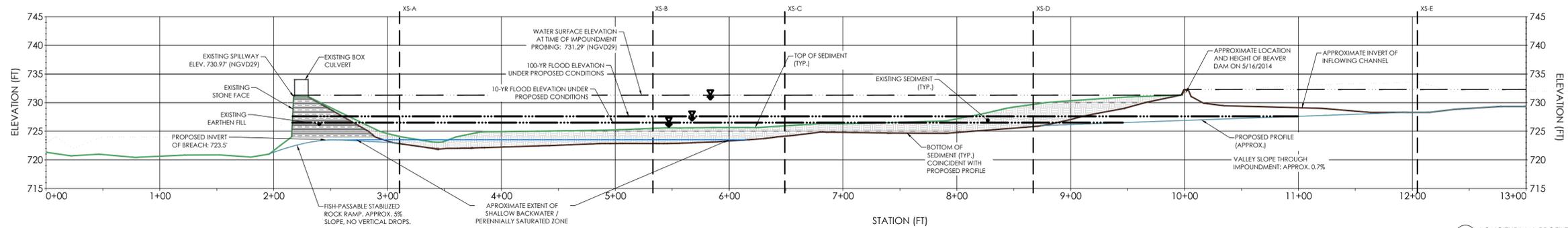
SCIENTISTS AND ENGINEERS  
1108 OLD YORK ROAD, SUITE 1  
P.O. BOX 720  
RINGOES, NEW JERSEY 08551  
PHONE. 908.237.5660  
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PROJECT NAME/LOCATION:  
LAKE HUDSONIA DAM REMOVAL &  
HIBERNIA BROOK RESTORATION  
ROCKAWAY TOWNSHIP  
MORRIS COUNTY, NEW JERSEY

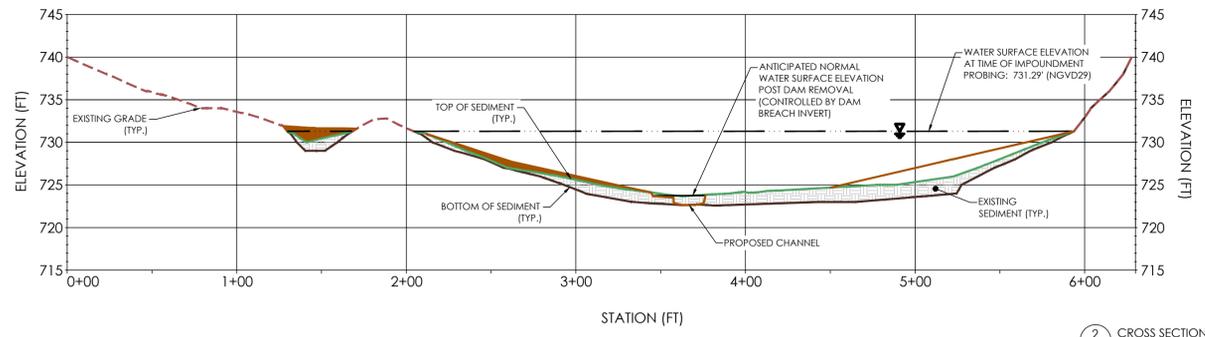
DRAWING NAME:  
**CONSTRUCTION AND  
EROSION & SEDIMENT CONTROL  
PLAN**

DATE: 06/30/14  
PROJECT NO.: 0883.003  
SCALE: 1" = 50'  
DRAWN BY: PNW  
CHECKED BY: JEH

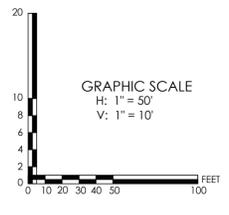
SHEET NO.  
**R4** OF **R6**



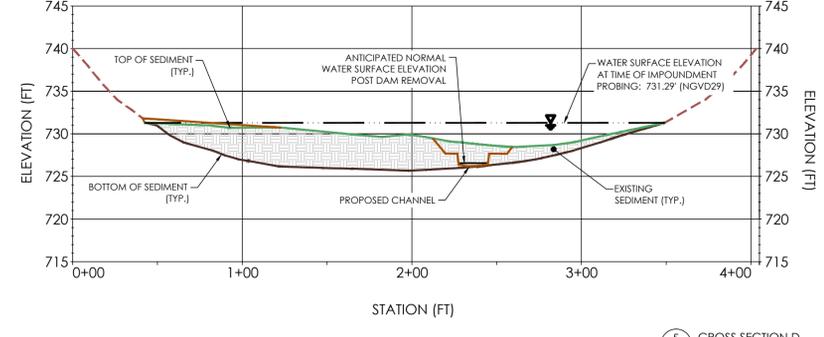
1 LONGITUDINAL PROFILE  
HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 10'



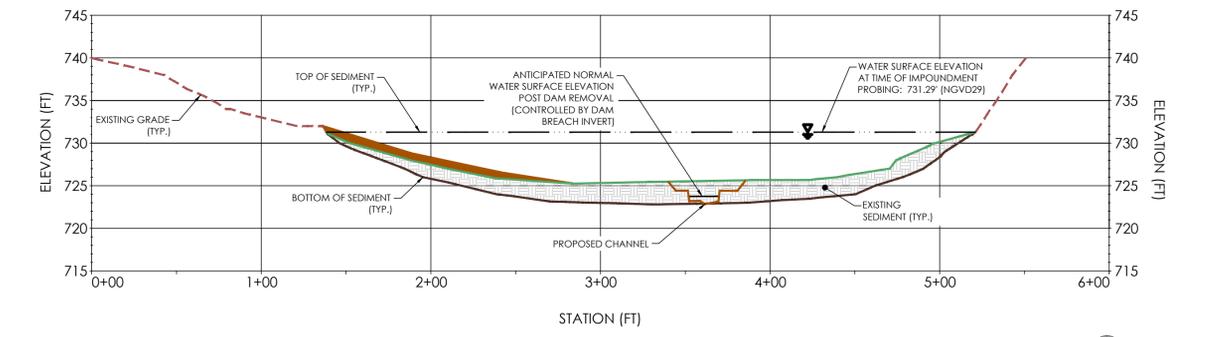
2 CROSS SECTION A  
HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 10'



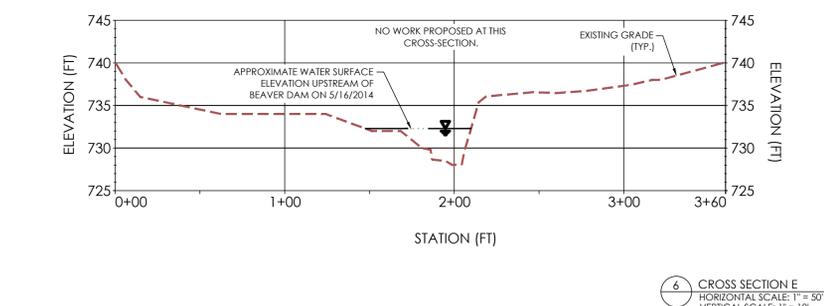
NOTES:  
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2. CROSS SECTIONS AND PROFILE ARE VERTICALLY EXAGGERATED BY A FACTOR OF 5.



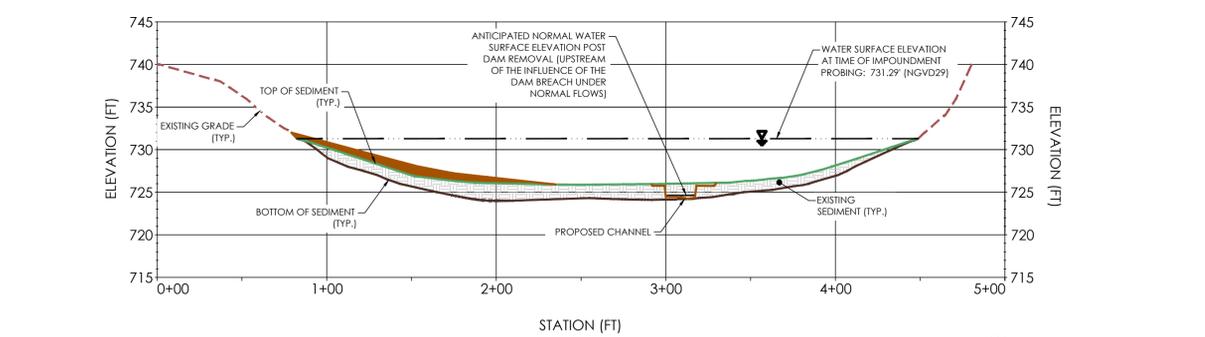
5 CROSS SECTION D  
HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 10'



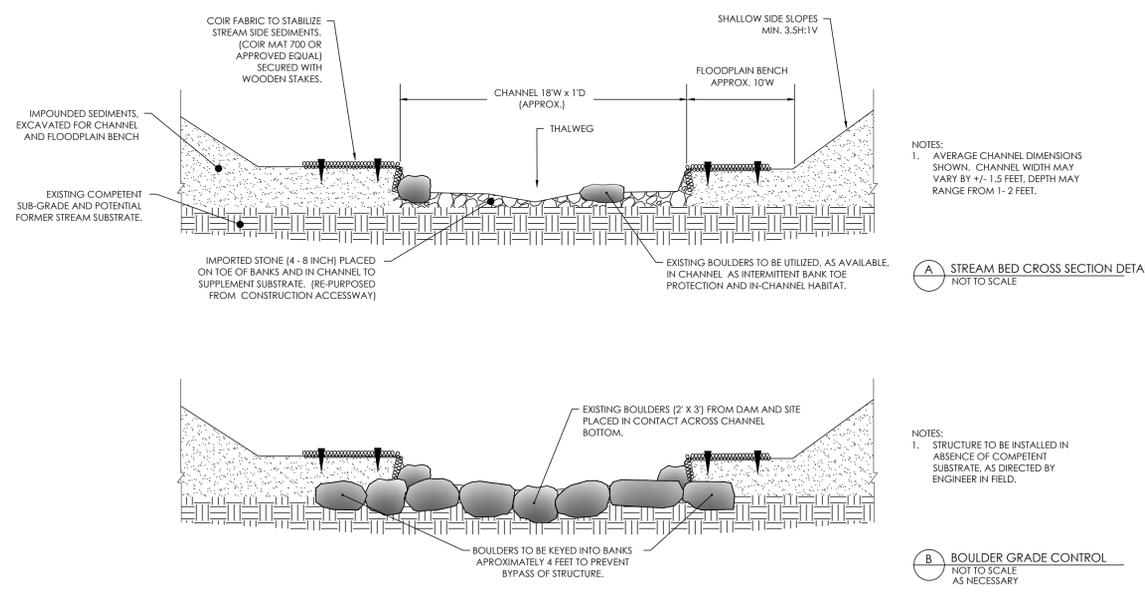
3 CROSS SECTION B  
HORIZONTAL SCALE: 1" = 50'  
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6 CROSS SECTION E  
HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 10'



4 CROSS SECTION C  
HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 10'



NOTES:  
1. AVERAGE CHANNEL DIMENSIONS SHOWN. CHANNEL WIDTH MAY VARY BY +/- 1.5 FEET. DEPTH MAY RANGE FROM 1-2 FEET.

A STREAM BED CROSS SECTION DETAIL  
NOT TO SCALE

NOTES:  
1. STRUCTURE TO BE INSTALLED IN ABSENCE OF COMPETENT SUBSTRATE, AS DIRECTED BY ENGINEER IN FIELD.

B BOULDER GRADE CONTROL  
NOT TO SCALE  
AS NECESSARY

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MORRIS COUNTY, NEW JERSEY

DRAWING NAME:  
**CROSS SECTIONS &  
LONGITUDINAL PROFILE**

DATE:	06/30/14
PROJECT NO.:	0883.003
SCALE:	1" = 50'
DRAWN BY:	CLP/PMW
CHECKED BY:	JEH

SHEET NO.  
**R5** OF **R6**

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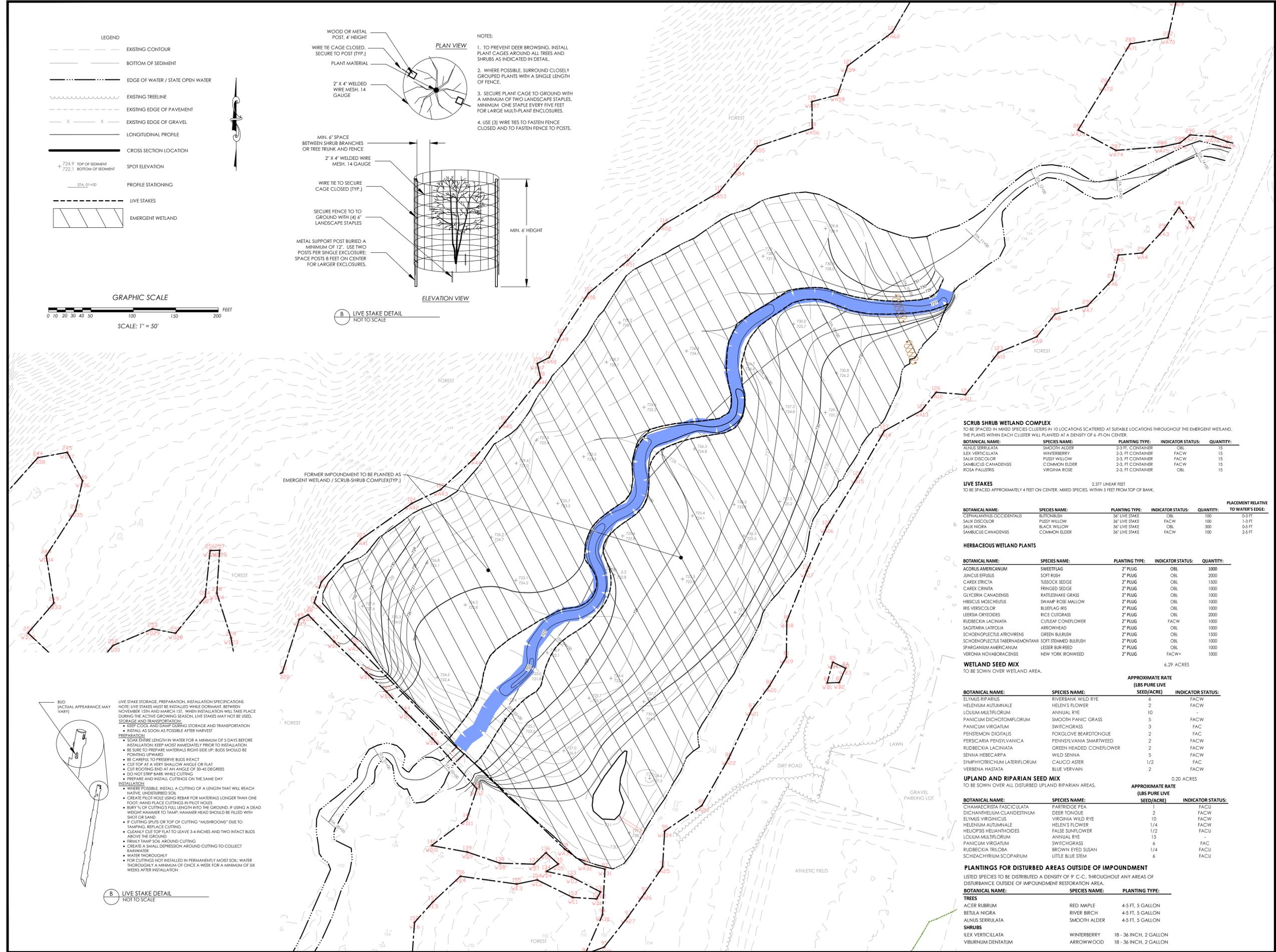
DRAWING NAME:

**PLANTING PLAN**

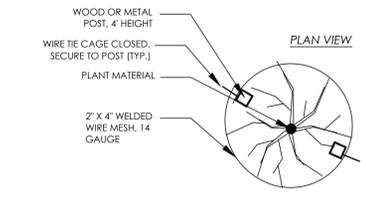
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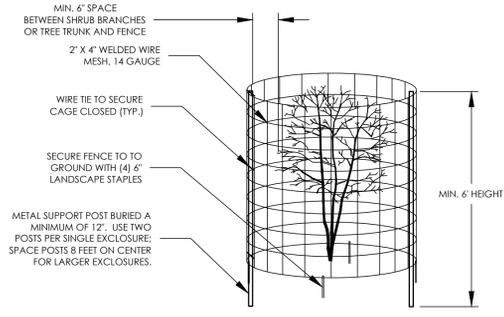
**R6** OF **R6**



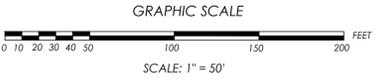
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  - LIVE STAKES
  - EMERGENT WETLAND



- NOTES:**
- TO PREVENT DEER BROWSING, INSTALL PLANT CAGES AROUND ALL TREES AND SHRUBS AS INDICATED IN DETAIL.
  - WHERE POSSIBLE, SURROUND CLOSELY GROUPED PLANTS WITH A SINGLE LENGTH OF FENCE.
  - SECURE PLANT CAGE TO GROUND WITH A MINIMUM OF TWO LANDSCAPE STAPLES. MINIMUM ONE STAPLE EVERY FIVE FEET FOR LARGE MULTI-PLANT ENCLOSURES.
  - USE (3) WIRE TIES TO FASTEN FENCE CLOSED AND TO FASTEN FENCE TO POSTS.



**B LIVE STAKE DETAIL**  
 NOT TO SCALE



**SCRUB SHRUB WETLAND COMPLEX**  
 TO BE SPACED IN MIXED SPECIES CLUSTERS IN 10 LOCATIONS SCATTERED AT SUITABLE LOCATIONS THROUGHOUT THE EMERGENT WETLAND. THE PLANTS WITHIN EACH CLUSTER WILL PLANTED AT A DENSITY OF 6-FT-ON CENTER.

BOTANICAL NAME:	SPECIES NAME:	PLANTING TYPE:	INDICATOR STATUS:	QUANTITY:
ALNUS SERRULATA	SMOOTH ALDER	2-3 FT. CONTAINER	OBL	15
ILEX VERTICILLATA	WINTERBERRY	2-3 FT. CONTAINER	FACW	15
SAUX DISCOLOR	PUSSY WILLOW	2-3 FT. CONTAINER	FACW	15
SAMBUCUS CANADENSIS	COMMON ELDER	2-3 FT. CONTAINER	FACW	15
ROSA PALMISTIS	VIRGINIA ROSE	2-3 FT. CONTAINER	OBL	15

**LIVE STAKES**  
 TO BE SPACED APPROXIMATELY 4 FEET ON CENTER. MIXED SPECIES, WITHIN 5 FEET FROM TOP OF BANK. 2.377 LINEAR FEET

BOTANICAL NAME:	SPECIES NAME:	PLANTING TYPE:	INDICATOR STATUS:	QUANTITY:	PLACEMENT RELATIVE TO WATER'S EDGE:
CEPHALANTHUS OCCIDENTALIS	BUTONBUSH	36" LIVE STAKE	OBL	100	0-3 FT
SAUX DISCOLOR	PUSSY WILLOW	36" LIVE STAKE	FACW	100	1-3 FT
SAUX NIGRA	BLACK WILLOW	36" LIVE STAKE	OBL	300	0-5 FT
SAMBUCUS CANADENSIS	COMMON ELDER	36" LIVE STAKE	FACW	100	2-5 FT

**HERBACEOUS WETLAND PLANTS**

BOTANICAL NAME:	SPECIES NAME:	PLANTING TYPE:	INDICATOR STATUS:	QUANTITY:
ACORUS AMERICANUM	SWEETFLAG	2" PLUG	OBL	1000
JUNCUS ERISSUS	SOFT RUSH	2" PLUG	OBL	2000
CAREX STRICTA	TUSsock SEDGE	2" PLUG	OBL	1500
CAREX CRINITA	FRINGED SEDGE	2" PLUG	OBL	1000
GLYCERIA CANADENSIS	RATTLESNAKE GRASS	2" PLUG	OBL	1000
HIBISCUS MOSCHEUTUS	SWAMP ROSE MALLOW	2" PLUG	OBL	1000
IRIS VERSICOLOR	BLUEFLAG IBS	2" PLUG	OBL	1000
LEERSIA ORYZOIDES	RICE CUTGRASS	2" PLUG	OBL	2000
RUDBECKIA LACINIATA	CURLEAF CONEFLOWER	2" PLUG	FACW	1000
SAGITTARIA LATIFOLIA	ARROWHEAD	2" PLUG	OBL	1000
SCHOENOPLECTUS ATRORVENSIS	GREEN BULRUSH	2" PLUG	OBL	1500
SCHOENOPLECTUS TABERNAEMONTANI	SOFT STEMMED BULRUSH	2" PLUG	OBL	1000
SPARGANIUM AMERICANUM	LESSER BURDEED	2" PLUG	OBL	1000
VERONIA NOVABORACENSIS	NEW YORK BROWNWEED	2" PLUG	FACW+	1000

**WETLAND SEED MIX**  
 TO BE SOWN OVER WETLAND AREA. 6.29 ACRES

BOTANICAL NAME:	SPECIES NAME:	APPROXIMATE RATE (LBS PURE LIVE SEED/ACRE)	INDICATOR STATUS:
ELYMUS RIPARIUS	RIVERBANK WILD RYE	6	FACW
HELENIUM AUTUMNALE	HELEN'S FLOWER	2	FACW
LOLIUM MULTIFLORUM	ANNUAL RYE	10	
PANICUM DICHOPTOMIFLORUM	SOFT RUSH	5	OBL
PANICUM VIRGATUM	SMOOTH PANIC GRASS	5	FACW
PENSTEMON DIGITALIS	SWITCHGRASS	3	FAC
PERSICARIA PENNSYLVANICA	FOXGLOVE BEARDTONGUE	2	FAC
RUDBECKIA LACINIATA	PENNSYLVANIA SMARTWEED	2	FACW
SENNA HEBECARPA	GREEN HEADED CONEFLOWER	2	FACW
SYMPHYOTRICHUM LATIFLORUM	WILD SENNA	5	FACW
VERBENA HASTATA	CALICO ASTER	1/2	FAC
	BLUE VERVAIN	2	FACW

**UPLAND AND RIPARIAN SEED MIX**  
 TO BE SOWN OVER ALL DISTURBED UPLAND RIPARIAN AREAS. 0.20 ACRES

BOTANICAL NAME:	SPECIES NAME:	APPROXIMATE RATE (LBS PURE LIVE SEED/ACRE)	INDICATOR STATUS:
DIAMMOCRETA FUSCICULATA	PARTICULATE TEA	1	FACU
DICHTANHELIUM CLAUDINUM	DEER TONGUE	2	FACW
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	10	FACW
HELENIUM AUTUMNALE	HELEN'S FLOWER	1/4	FACW
HELIOPSIS HELIANTHODES	FALSE SUNFLOWER	1/2	FACU
LOLIUM MULTIFLORUM	ANNUAL RYE	15	
PANICUM VIRGATUM	SWITCHGRASS	6	FAC
RUDBECKIA TRILOBATA	BROWN EYED SUSAN	1/4	FACU
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUE STEM	6	FACU

**PLANTINGS FOR DISTURBED AREAS OUTSIDE OF IMPOUNDMENT**  
 LISTED SPECIES TO BE DISTRIBUTED AT A DENSITY OF 9' C-C, THROUGHOUT ANY AREAS OF DISTURBANCE OUTSIDE OF IMPOUNDMENT RESTORATION AREA.

BOTANICAL NAME:	SPECIES NAME:	PLANTING TYPE:
<b>TREES</b>		
ACER RUBRUM	RED MAPLE	4-5 FT, 5 GALLON
BETULA NIGRA	RIVER BIRCH	4-5 FT, 5 GALLON
ALNUS SERRULATA	SMOOTH ALDER	4-5 FT, 5 GALLON
<b>SHRUBS</b>		
ILEX VERTICILLATA	WINTERBERRY	18 - 36 INCH, 2 GALLON
VIURNUM DENTATUM	ARROWWOOD	18 - 36 INCH, 2 GALLON

- LIVE STAKE STORAGE, PREPARATION, INSTALLATION SPECIFICATIONS**  
 NOTE: LIVE STAKES MUST BE INSTALLED WHILE DORMANT, BETWEEN NOVEMBER 15TH AND MARCH 15TH. WHEN INSTALLATION WILL TAKE PLACE DURING THE ACTIVE GROWING SEASON, LIVE STAKES MAY NOT BE USED.
- STORAGE AND TRANSPORTATION:**
- KEEP COOL AND DAMP DURING STORAGE AND TRANSPORTATION
  - INSTALL AS SOON AS POSSIBLE AFTER HARVEST
- PREPARATION:**
- SOAK ENTIRE LENGTH IN WATER FOR A MINIMUM OF 5 DAYS BEFORE INSTALLATION. KEEP MOST IMMEDIATELY PRIOR TO INSTALLATION
  - BE SURE TO PREPARE MATERIALS RIGHT SIDE UP. BUDS SHOULD BE POINTING UPWARD
  - BE CAREFUL TO PRESERVE BUDS INTACT
  - CUT TOP AT A VERY SHALLOW ANGLE OR FLAT
  - CUT ROOTING END AT AN ANGLE OF 30-45 DEGREES
  - DO NOT STRIP BARK WHILE CUTTING
  - PREPARE AND INSTALL CUTTINGS ON THE SAME DAY
- INSTALLATION:**
- WHERE POSSIBLE, INSTALL A CUTTING OF A LENGTH THAT WILL REACH NATIVE UNDISTURBED SOIL
  - CREATE PILOT HOLE USING REBAR FOR MATERIALS LONGER THAN ONE FOOT. HAND PLACE CUTTINGS IN PILOT HOLES
  - BURY 1/4 OF CUTTINGS FULL LENGTH INTO THE GROUND. IF USING A DEAD WEIGHT HAMMER TO TAMP, HAMMER HEAD SHOULD BE FILLED WITH SHOT OR SAND
  - IF CUTTING SPRIGS OR TOP OF CUTTING "MUSHROOMS" DUE TO TAMPING, REPLACE CUTTING
  - CLEARLY CUT TOP FLAT TO LEAVE 3-4 INCHES AND TWO INTACT BUDS ABOVE THE GROUND
  - FIRMLY TAMP SOIL AROUND CUTTING
  - CREATE A SMALL DEPRESSION AROUND CUTTING TO COLLECT RAINWATER
  - WATER THOROUGHLY
  - FOR CUTTINGS NOT INSTALLED IN PERMANENTLY MOIST SOIL, WATER THOROUGHLY A MINIMUM OF ONCE A WEEK FOR A MINIMUM OF SIX WEEKS AFTER INSTALLATION

**B LIVE STAKE DETAIL**  
 NOT TO SCALE