

Attachment 4

Revised Project Plans (Revised 09/09/2019)

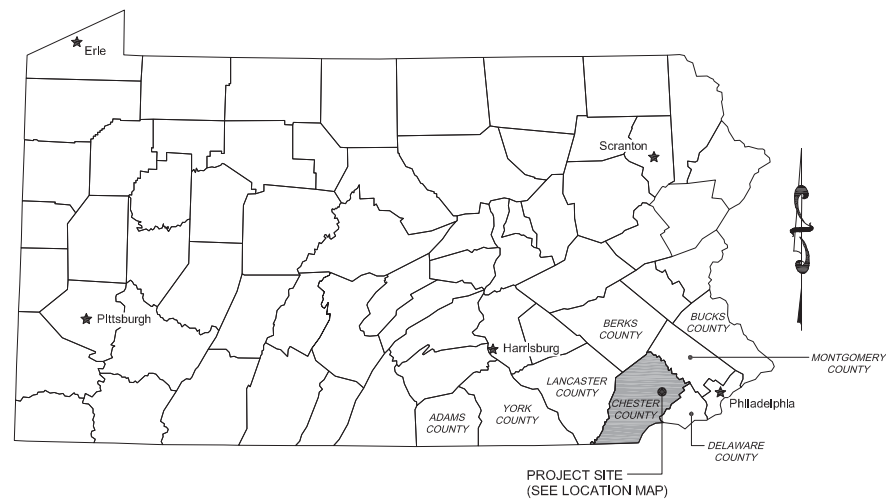


EAST GOSHEN TOWNSHIP

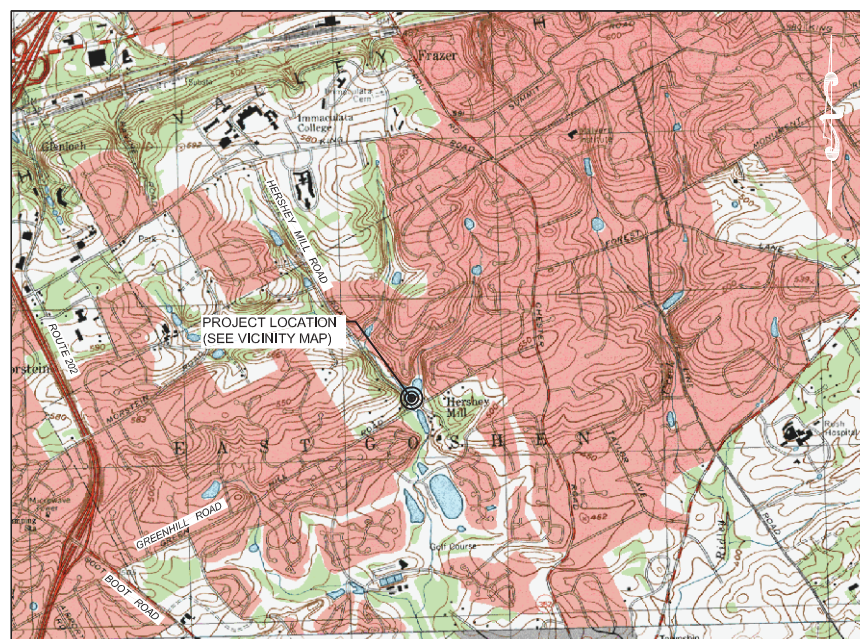
1580 PAOLI PIKE
WEST CHESTER, PENNSYLVANIA

DECOMMISSIONING OF HERSHEY'S MILL DAM (DEP ID NO. D15-125) EAST GOSHEN TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

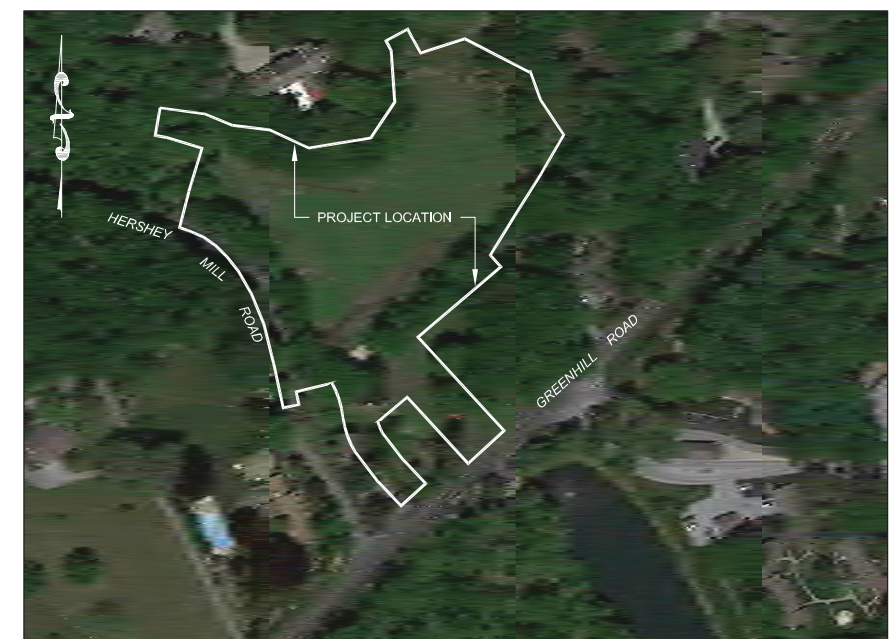
PERMIT DRAWINGS
GANNETT FLEMING PROJECT NO. 060466
SEPTEMBER 2019



PENNSYLVANIA STATE MAP
NOT TO SCALE



LOCATION MAP
SCALE IN FEET



VICINITY MAP
APPROXIMATE SCALE IN FEET

PUBLIC UTILITIES AND ADDRESSES

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA 19380
CONTACT: MARK MILLER
EMAIL: MMILLER@EASTGOSHEN.ORG

COMCAST CABLE
1004 CORNERSTONE BLVD
DOWNTOWNTOWN, PA 19335
CONTACT: TOM RUSSO
EMAIL: TOM_RUSSO@CABLE.COMCAST.COM

AQUA PENNSYLVANIA INC.
762 WEST LANCASTER AVENUE
BRYN MAWR, PA 19010
CONTACT: STEVE PIZZI
EMAIL: SBPIZZI@AQUAAMERICA.COM

PECO ENERGY C/O USIC
450 SOUTH HENDERSON ROAD, SUITE B
KING OF PRUSSIA, PA 19406
CONTACT: NIKKIA SIMPKINS
EMAIL: NIKKIASIMPKINS@USICLLC.COM

VERIZON PENNSYLVANIA LLC
1050 VIRGINIA DRIVE
FORT WASHINGTON, PA 19034
CONTACT: LAURA LIPPINCOTT
EMAIL: LAURA.LIPPINCOTT@ONE.VERIZON.COM

CONTACT INFORMATION

EAST GOSHEN TOWNSHIP (ATTN: RICK SMITH, TOWNSHIP MANAGER) 610-692-7171
GANNETT FLEMING, INC. (ATTN: ERIC NEAST, PROJECT MANAGER) 717-763-7212
PA DEPARTMENT OF ENVIRONMENTAL PROTECTION, DIVISION OF DAM SAFETY 717-772-5957
CHESTER COUNTY CONSERVATION DISTRICT 610-925-4920
PA FISH AND BOAT COMMISSION, SOUTHEAST REGIONAL OFFICE 484-250-5900
PENNSYLVANIA ONE CALL SYSTEM FOR UNDERGROUND UTILITIES 800-242-1776

PENNSYLVANIA ONE CALL SYSTEM

CALL BEFORE YOU DIG
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE STOP CALL



POCS SERIAL NUMBER: 20181960134
POCS CALL DATE: JULY 15, 2018

PA ONE CALL NOTE:
GANNETT FLEMING, INC. (GANNETT FLEMING) ADVISES THAT IT HAS COMPLIED WITH THE PROVISIONS OF THE PENNSYLVANIA UNDERGROUND UTILITY LINE PROTECTION LAW, ACT 287 OF 1974 AS AMENDED, IN PREPARING THESE PLANS. ALTHOUGH GANNETT FLEMING MADE THE TELEPHONE CALL(S) LISTED ON THESE PLANS ON THE DATE(S) SHOWN, THE INFORMATION SHOWN MAY BE PRELIMINARY AS OF THE DATE OF BIDDING. THE DATA PERTAINING TO UTILITIES SHOWN ON THE PLANS IS FOR GENERAL INFORMATION AND GUIDANCE ONLY AND GANNETT FLEMING MAKES NO REPRESENTATIONS, WARRANTY, GUARANTY OR ASSURANCES THAT THE INFORMATION RECEIVED PURSUANT TO SAID CALL(S) AND REFLECTED ON THE PLANS IS COMPLETE, CORRECT OR ACCURATE, BUT IS REFLECTING SAID INFORMATION IN ACCORDANCE WITH THE REQUIREMENTS OF SUCH ACT AS OF THE DATE OF SAID CALL(S). THE AREAS IN WHICH NEW UNDERGROUND FACILITIES AND APPURTENANCES ARE TO BE CONSTRUCTED UNDER THIS CONTRACT MAY CONTAIN EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE NOT SHOWN ON THE PLANS OR ARE IN LOCATIONS OTHER THAN AS SHOWN. CONTRACTORS ARE ADVISED OF THEIR OBLIGATIONS TO NOTIFY ALL FACILITY OWNERS, NOT LESS THAN 3 OR MORE THAN 10 DAYS PRIOR TO EXCAVATION, VIA ONE CALL(S) IN ACCORDANCE WITH THE REQUIREMENTS OF THE ACT (1-800-242-1776 OR 412-464-7100 (PITTSBURGH)), AND TO PRECISELY IDENTIFY THE LOCATION OF, AVOID DAMAGE TO AND REPAIR DAMAGED UNDERGROUND UTILITIES.

LIST OF DRAWINGS

SHEET NO.	DESCRIPTION
-	COVER SHEET
G1	GENERAL NOTES, LEGEND AND ABBREVIATIONS
G2	EXISTING CONDITIONS - OVERALL SITE PLAN
G3	EXISTING CONDITIONS - ENLARGED PLAN OF DAM
G4	EXISTING CONDITIONS - ENLARGED PLAN OF RESERVOIR
G5	ALIGNMENT LAYOUT AND SURVEY CONTROL PLAN (1 OF 3)
G6	ALIGNMENT LAYOUT AND SURVEY CONTROL PLAN (2 OF 3)
G7	ALIGNMENT LAYOUT AND SURVEY CONTROL PLAN (3 OF 3)
G8	DEMOLITION PLAN
G9	PROPOSED CONDITIONS - LANDSCAPE PLAN - SITE DETAILS
G10	PROPOSED CONDITIONS - GRADING PLAN
G11	CROSS SECTIONS (1 OF 2)
G12	CROSS SECTIONS (2 OF 2)
G13	TYPICAL STREAM CROSS SECTIONS
G14	STREAM PROFILES (1 OF 2)
G15	STREAM PROFILES (2 OF 2)
G16	STREAM DETAILS (1 OF 2)
G17	STREAM DETAILS (2 OF 2)

LIST OF DRAWINGS

SHEET NO.	DESCRIPTION
ES1	EROSION AND SEDIMENT CONTROL - SITE PLAN (SHEET 1 OF 2)
ES2	EROSION AND SEDIMENT CONTROL - SITE PLAN (SHEET 2 OF 2)
ES3	EROSION AND SEDIMENT CONTROL - NARRATIVE (SHEET 1 OF 2)
ES4	EROSION AND SEDIMENT CONTROL - NARRATIVE (SHEET 2 OF 2)
ES5	EROSION AND SEDIMENT CONTROL - DETAILS (SHEET 1 OF 3)
ES6	EROSION AND SEDIMENT CONTROL - DETAILS (SHEET 2 OF 3)
ES7	EROSION AND SEDIMENT CONTROL - DETAILS (SHEET 3 OF 3)
L1	LANDSCAPE PLAN - SITE PLAN
L2	LANDSCAPE PLAN - SITE DETAILS
L3	LANDSCAPE PLAN - SITE DETAILS
L4	LANDSCAPE PLAN - SITE DETAILS
L5	LANDSCAPE PLAN - SITE DETAILS
L6	LANDSCAPE PLAN - SITE DETAILS
L7	LANDSCAPE PLAN - SITE DETAILS
L8	LANDSCAPE PLAN - SITE DETAILS
L9	LANDSCAPE PLAN - SITE DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION
2	09/19	RESPOND TO USACE COMMENTS
1	07/19	RESPOND TO USACE COMMENTS

ABBREVIATIONS

A	AASHTO ACI AC-FT ADDL AFF AFG AISC AL ALLOW. ALT ANSI ASTM APPROX ASW AVG AWWA @	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AMERICAN CONCRETE INSTITUTE ACRE-FOOT (FEET) ADDITIONAL ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMERICAN INSTITUTE OF STEEL CONSTRUCTION ALUMINUM ALLOWABLE ALTERNATE AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN SOCIETY FOR TESTING AND MATERIALS APPROXIMATE(LY) AUXILIARY SPILLWAY AVERAGE AMERICAN WATER WORKS ASSOCIATION AT	L	LB LBS LF, M MAX MH MIN MSC MJ MSE N N N/A NAD NAVD NGVD NTS NO., #	POUND POUNDS LINEAR FEET MAXIMUM MANHOLE MINIMUM MISCELLANEOUS MECHANICAL JOINT MECHANICALLY STABILIZED EMBANKMENT NORTH/NORTHING COORDINATE NOT APPLICABLE NORTH AMERICAN DATUM NORTH AMERICAN VERTICAL DATUM NATIONAL GEODETIC VERTICAL DATUM NOT TO SCALE NUMBER
B	BF BFF BFG BFV ℓ BM BOT B.P.	BLIND FLANGE OR BACK FACE BELOW FINISHED FLOOR BELOW FINISHED GRADE BUTTERFLY VALVE BASELINE BENCHMARK BOTTOM BEGINNING POINT	O	OC OD OE OHWM OPNG OZ	ON CENTER OUTSIDE DIAMETER OVERHEAD ELECTRIC ORDINARY HIGH WATER MARK OPENING OUNCE
C	C/C, C.C., C TO C ℓ CI CIP CJ CLR CM CMP CONC CONST, CONSTR CONT CONTR CORR CF CFM CFS CY	CENTER TO CENTER CENTERLINE CAST IRON CAST IN PLACE OR CAST IRON PIPE CONSTRUCTION JOINT CLEARANCE, CLEAR, CLEAR DISTANCE CONCRETE MONUMENT CORRUGATED METAL PIPE CONCRETE CONSTRUCTION CONTINUOUS CONTRACTION CORRUGATED CUBIC FOOT(FEET) CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CUBIC YARD(S)	P	PA P.C. PCCP PCF PE PGL P.I. PL POB POI PSF PSI PSW P.T. PVC PVI PVT	PENNSYLVANIA POINT OF CURVATURE PRESTRESSED CONCRETE CYLINDER PIPE POUNDS PER CUBIC FOOT PLAIN END PROFILE GRADE LINE POINT OF INFLECTION PLATE POINT OF BEGINNING POINT OF INTERSECTION POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRINCIPAL SPILLWAY POINT OF TANGENCY POLYVINYL CHLORIDE OR POINT VERTICAL CURVATURE POINT VERTICAL INTERSECTION POINT VERTICAL TANGENCY
D	DEPT DI DIP DIA, Ø DWG	DEPARTMENT DUCTILE IRON DUCTILE IRON PIPE DIAMETER DRAWING	Q	QTY	QUANTITY
E	E EA EF EL, EL EXP EXP JT EXT E&SC EQ EW	EAST/EASTING COORDINATE EACH EACH FACE ELEVATION EXPANSION EXPANSION JOINT EXTERIOR EROSION AND SEDIMENT CONTROL EQUAL EACH WAY	R	R RCP REIN REQ'D RGS RJ ROW	RADIUS REINFORCED CONCRETE PIPE REINFORCED REQUIRED RIGID GALVANIZED STEEL RESTRAINED JOINT RIGHT OF WAY
F	FF FM FTG FT, FT/FT	FRONT FACE FORCE MAIN FOOTING FOOT/FEET, FEET PER FOOT	S	SECT SF SHT SPA SQ SS STA STD SY	SECTION SQUARE FOOT (FEET) SHEET SPACING SQUARE STAINLESS STEEL STATION STANDARD SQUARE YARD
G	GALV. GIS GPD GPM	GALVANIZED GEOGRAPHICAL INFORMATION SYSTEM GALLONS PER DAY GALLONS PER MINUTE	T	TEMP TOPO TYP, TYP., (TYP)	TEMPORARY TOPOGRAPHY TYPICAL
H	HEX HDPE HH HORIZ	HEXAGONAL HIGH DENSITY POLYETHYLENE HAND HOLE HORIZONTAL	U	UNO USACE USGS US	UNLESS OTHERWISE NOTED UNITED STATES ARMY CORPS OF ENGINEERS U.S. GEOLOGICAL SURVEY UPSTREAM
I	ID IN INTR INV IP	INSIDE DIAMETER INCH(ES) INTERIOR INVERT IRON PIN	V	VC VERT VOL	VERTICAL CURVE VERTICAL VOLUME
J	JT JB	JOINT JUNCTION BOX	W	WM W/ W/O WT	WATERMAIN WITH WITHOUT WEIGHT
			Y	YD	YARD

EXISTING CONDITIONS LEGEND

— 435 —	EXISTING MAJOR CONTOUR (5' INTERVAL)	☉	TREE - DECIDUOUS
— — — — —	EXISTING MINOR CONTOUR (1' INTERVAL)	☀	TREE - CONIFEROUS
— 0E — 0E —	OVERHEAD ELECTRIC	☼	SHRUB
— W —	WATER MAIN	●	IRON PIN
— S —	SANITARY SEWER	△	CONTROL POINT
— ST —	STORM SEWER	■	BENCHMARK
— — — — —	RIPRAP	○	SURVEY MONUMENT
→ — — — —	SWALE / DITCH	○	POST
— — — — —	LIMIT OF DETAILED FIELD SURVEY	○	WELL
— — — — —	PROPERTY LINE	⊗	WATER VALVE
— — — — —	EASEMENT LINE	⊖	WATER METER
— — — — —	CENTERLINE / BASELINE	⊕	FIRE HYDRANT
— — — — —	EDGE OF WATER (OHWM)	⊙	CLEANOUT
— — — — —	VEGETATION	⊙	SANITARY MANHOLE
— X —	FENCE	⊗	LIGHT POST
— — — — —	GUIDE RAIL	⊗	UTILITY POLE
— — — — —	WETLAND (PEM)	⊗	GUY WIRE
— — — — —	WETLAND (PFO)	⊗	SIGN
— — — — —	100-YEAR FLOODPLAIN	⊗	STUMP

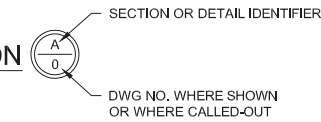
GENERAL DRAFTING NOTES:

- GREY OR LIGHT LINEWORK GENERALLY REPRESENT EXISTING FEATURES, WHEREAS DARKER BLACK LINEWORK IS GENERALLY INTENDED TO DEPICT NEW CONSTRUCTION.
- DIMENSION AND TEXT CALLOUTS
 - EXISTING FEATURES TEXT IS SLANTED AS SHOWN HERE.

SECTION SYMBOLS:



SECTION

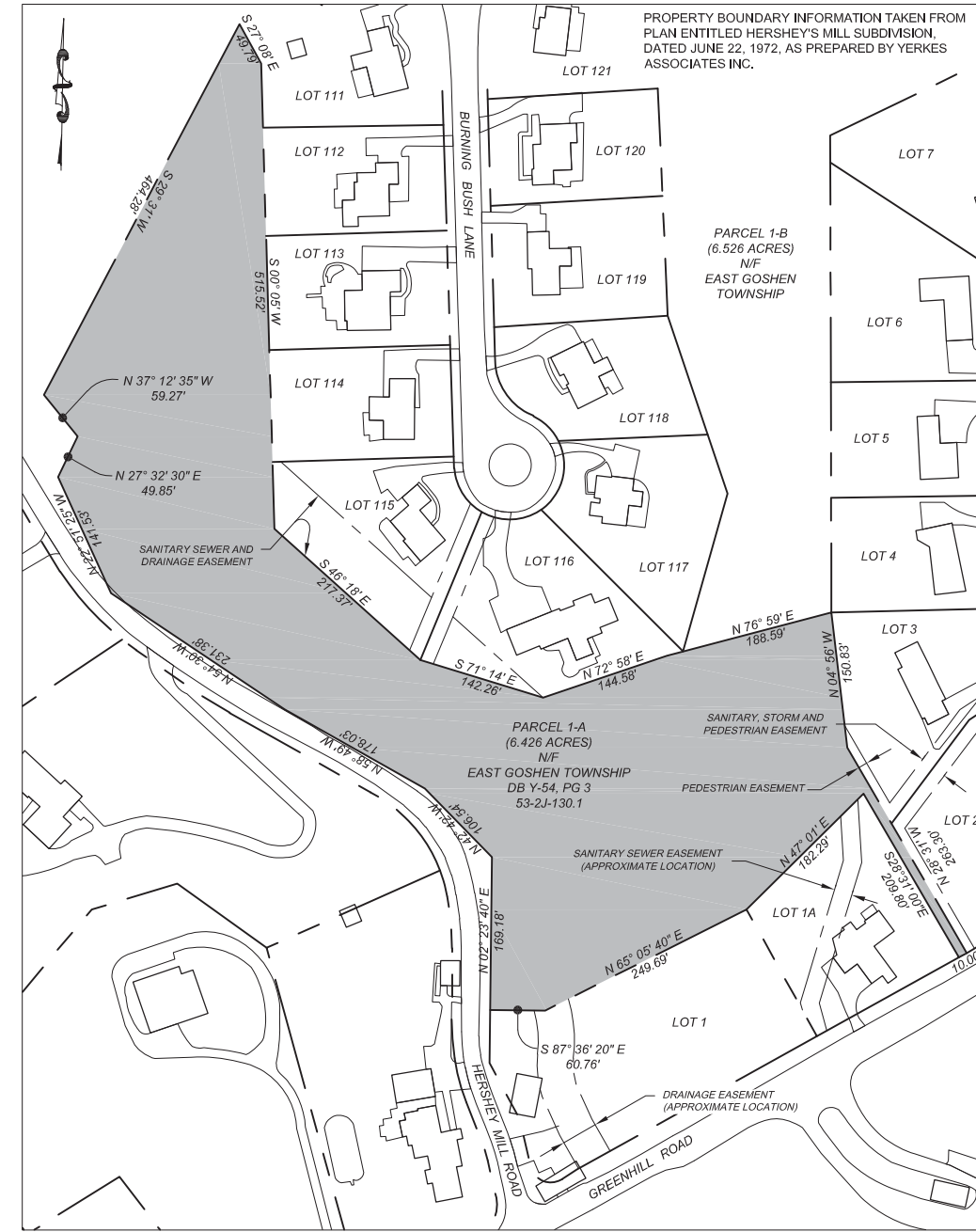


NORTH ARROW:



PROJECT GENERAL NOTES

- ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO ORDERING MATERIALS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO THOROUGHLY REVIEW AND UNDERSTAND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ERRORS, OMISSIONS, AND/OR DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO ORDERING MATERIALS.
- PROPOSED CONTOURS REPRESENT FINISHED GRADE (I.E., TOP OF TOPSOIL, TOP OF PAVEMENT, TOP OF ROCK RIPRAP, ETC.).
- MATCH EXISTING GRADES, CURB HEIGHTS, SIDEWALK WIDTHS, ETC. AT ALL LOCATIONS WHERE PROPOSED WORK ACTIVITIES MEET EXISTING FACILITIES.
- RAISE OR LOWER ALL EXISTING UTILITY VALVES, COVERS, GRATES, ETC. AS NEEDED TO BE FLUSH WITH THE PROPOSED FINAL GRADE.
- ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE ENGINEER AND OWNER DO NOT CERTIFY THE CORRECTNESS OR COMPLETENESS OF THE EXISTING UTILITY PORTRAYAL. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND THE OWNER PRIOR TO INITIATION OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR COORDINATING HIS ACTIVITIES WITH THE UTILITY COMPANIES AND THE OWNER.
- THE CONTRACTOR SHALL DEVELOP A VEHICULAR AND PEDESTRIAN SAFETY PLAN THAT COVERS THE DURATION OF THE PROJECT. SAID PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO THE START OF CONSTRUCTION. SAID PLAN SHALL INCLUDE MEASURES SUCH AS SIGMAGE, TEMPORARY WALKWAYS, PROTECTIVE FENCING, FLAGMEN, AND/OR OTHER MEASURES AS DEEMED NECESSARY TO PROTECT THE SAFETY OF THE TRAVELING PUBLIC ALONG BOTH GREENHILL ROAD AND HERSHEY MILL ROAD THROUGHOUT THE CONSTRUCTION PERIOD.
- THE PROJECT WILL INVOLVE WORK WITHIN THE HERSHEY'S MILL DAM RESERVOIR WHICH HAS A CONTRIBUTING DRAINAGE AREA OF APPROXIMATELY 1.8 SQUARE MILES. WATER ELEVATIONS AT THE PROJECT SITE WILL VARY DEPENDING ON STREAM FLOWS AND WEATHER CONDITIONS. THE CONTRACTOR IS MADE AWARE THAT STREAM AND/OR RESERVOIR LEVELS WILL VARY. THE CONTRACTOR SHALL MAKE PROVISIONS FOR CONDUCTING WORK IN VARIABLE WATER CONDITIONS AND SHALL INCLUDE SUCH MEASURES IN HIS BASE BID.
- ALL CONSTRUCTION EQUIPMENT, WITH THE EXCEPTION OF DEWATERING EQUIPMENT, SHALL BE REMOVED FROM THOSE AREAS OF THE RESERVOIR LOCATED BELOW THE SPILLWAY CREST (EL. 447.2) AT THE END OF EACH WORK DAY. FUEL CELLS / CONTAINERS SHALL NOT BE LOCATED IN OR ADJACENT TO WATERWAYS OR WITHIN AREAS THAT MAY BECOME INUNDATED BY STORM FLOWS.
- ALL TREES LOCATED WITHIN THE WORK AREA THAT ARE TO REMAIN SHALL BE PROTECTED WITH FENCING. LOCATE PROTECTIVE FENCE AT THE DRIP LINE OF EACH TREE TO BE PROTECTED. AT NO TIME SHALL VEHICLES, EQUIPMENT, AND/OR MATERIALS BE STORED OVER EXISTING TREE ROOTS AND AT NO TIME SHALL VEHICLES OF ANY KIND BE ALLOWED TO TRAVERSE OR PARK ON EXISTING TREE ROOTS.
- CONTRACTOR SHALL NOTIFY THE PA FISH AND BOAT COMMISSION SOUTHEAST REGIONAL OFFICE (PHONE NUMBER: 484-250-5900) AT LEAST FIVE DAYS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE CHESTER COUNTY CONSERVATION DISTRICT (PHONE NUMBER: 610-925-4920) AT LEAST SEVEN DAYS PRIOR TO THE START OF CONSTRUCTION AND AGAIN AT THE COMPLETION OF THE PROJECT. THE DISTRICT SHALL MAKE A DETERMINATION IF THE SITE IS PERMANENTLY STABILIZED AND IF THE TEMPORARY EROSION CONTROL FACILITIES CAN BE REMOVED FROM SERVICE.
- UNTIL THE SITE IS PERMANENTLY STABILIZED, ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL FACILITIES AFTER EACH RAINFALL EVENT AND ON A DAILY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANING, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND ANCHORING OF SAID MULCH, SHALL BE PERFORMED IMMEDIATELY.
- HERSHEY'S MILL DAM WAS CONSTRUCTED IN THE LATE EIGHTEENTH CENTURY TO SUPPORT A GRISTMILL AND THE SPILLWAY WAS REPORTEDLY REPAIRED/RECONSTRUCTED IN 1904 AND 1977. THE CONTRACTOR IS MADE AWARE THAT EXCAVATION ACTIVITIES MAY ENCOUNTER REMNANTS OF PAST CONSTRUCTION ACTIVITIES AND NO ADDITIONAL PAYMENT WILL BE MADE TO REMOVE AND PROPERLY DISPOSE OF SAID REMNANTS.



PROPERTY BOUNDARY MAP

SCALE IN FEET

SCALE: 1" = 100'

ABBREVIATIONS NOTE:

- THIS IS A STANDARD LIST OF ABBREVIATIONS AND ALL THE ABBREVIATIONS SHOWN MAY NOT BE USED IN THIS SET OF DRAWINGS.

NO.	DESCRIPTION	DATE	BY
1	RESPOND TO USACE COMMENTS	09/19	ECN
REVISIONS			

DESIGNED	CADD	SCALE
MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX

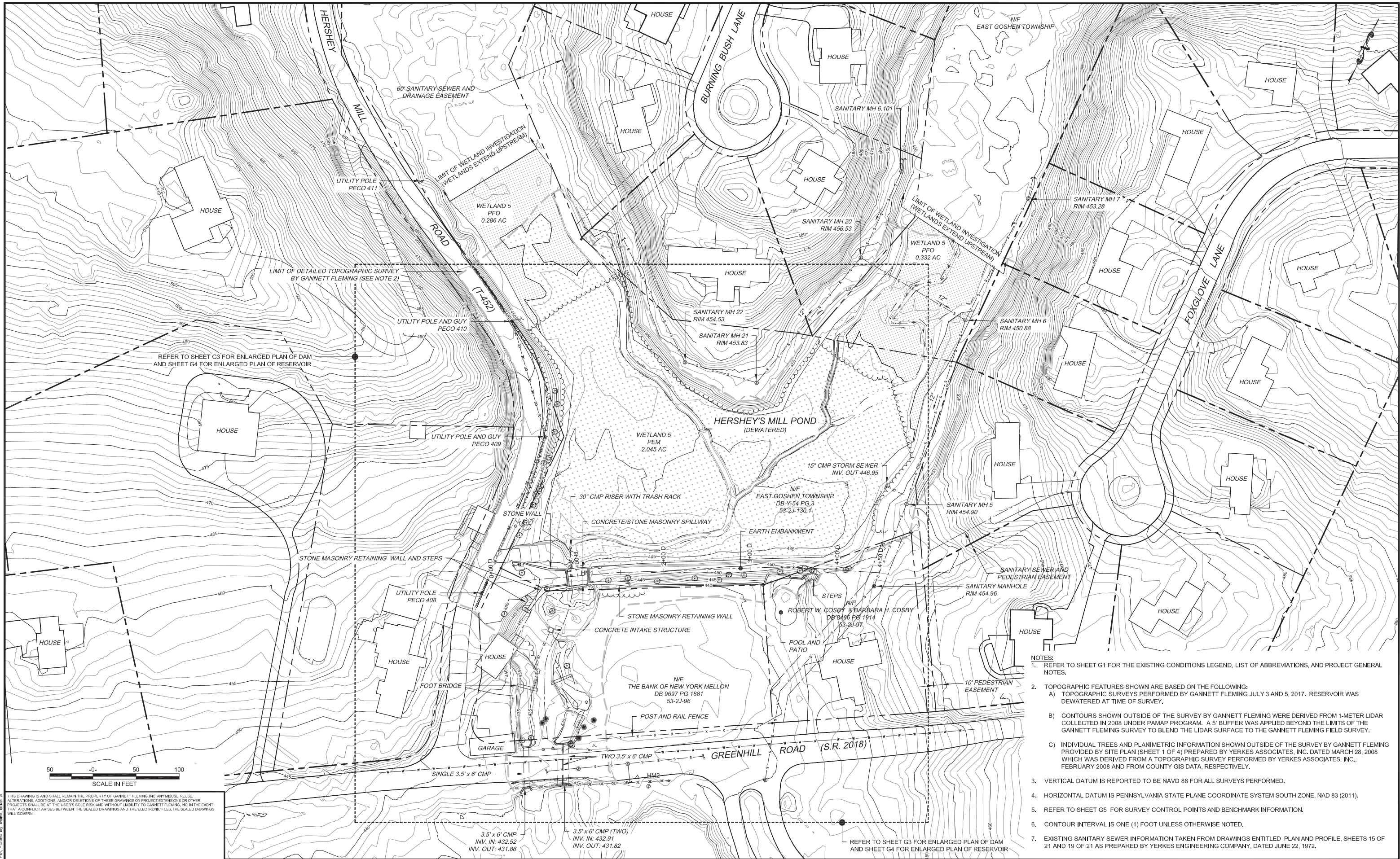


EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

DECOMMISSIONING OF
HERSHEY'S MILL DAM

**GENERAL NOTES
LEGEND AND ABBREVIATIONS**

JOB NO.	SHEET NO.
60466	G1
DATE	DRAWING NO.
SEPT. 2019	2 OF 34



REFER TO SHEET G3 FOR ENLARGED PLAN OF DAM AND SHEET G4 FOR ENLARGED PLAN OF RESERVOIR

LIMIT OF DETAILED TOPOGRAPHIC SURVEY BY GANNETT FLEMING (SEE NOTE 2)

3.5' x 6' CMP
INV. IN: 432.52
INV. OUT: 431.86

3.5' x 6' CMP (TWO)
INV. IN: 432.91
INV. OUT: 431.82

REFER TO SHEET G3 FOR ENLARGED PLAN OF DAM AND SHEET G4 FOR ENLARGED PLAN OF RESERVOIR

- NOTES:
- REFER TO SHEET G1 FOR THE EXISTING CONDITIONS LEGEND, LIST OF ABBREVIATIONS, AND PROJECT GENERAL NOTES.
 - TOPOGRAPHIC FEATURES SHOWN ARE BASED ON THE FOLLOWING:
 - TOPOGRAPHIC SURVEYS PERFORMED BY GANNETT FLEMING JULY 3 AND 5, 2017. RESERVOIR WAS DEWATERED AT TIME OF SURVEY.
 - CONTOURS SHOWN OUTSIDE OF THE SURVEY BY GANNETT FLEMING WERE DERIVED FROM 1-METER LIDAR COLLECTED IN 2008 UNDER PAMAP PROGRAM. A 5' BUFFER WAS APPLIED BEYOND THE LIMITS OF THE GANNETT FLEMING SURVEY TO BLEND THE LIDAR SURFACE TO THE GANNETT FLEMING FIELD SURVEY.
 - INDIVIDUAL TREES AND PLANIMETRIC INFORMATION SHOWN OUTSIDE OF THE SURVEY BY GANNETT FLEMING PROVIDED BY SITE PLAN (SHEET 1 OF 4) PREPARED BY YERKES ASSOCIATES, INC. DATED MARCH 28, 2008 WHICH WAS DERIVED FROM A TOPOGRAPHIC SURVEY PERFORMED BY YERKES ASSOCIATES, INC., FEBRUARY 2008 AND FROM COUNTY GIS DATA, RESPECTIVELY.
 - VERTICAL DATUM IS REPORTED TO BE NAVD 88 FOR ALL SURVEYS PERFORMED.
 - HORIZONTAL DATUM IS PENNSYLVANIA STATE PLANE COORDINATE SYSTEM SOUTH ZONE, NAD 83 (2011).
 - REFER TO SHEET G5 FOR SURVEY CONTROL POINTS AND BENCHMARK INFORMATION.
 - CONTOUR INTERVAL IS ONE (1) FOOT UNLESS OTHERWISE NOTED.
 - EXISTING SANITARY SEWER INFORMATION TAKEN FROM DRAWINGS ENTITLED PLAN AND PROFILE, SHEETS 15 OF 21 AND 19 OF 21 AS PREPARED BY YERKES ENGINEERING COMPANY, DATED JUNE 22, 1972.

w:\426\active jobs\60466 - east goshen township\cadd\06 hershey mill dam\Design Set\EXISTING SITE PLAN.dwg
Plot Date: 9/19/2019 2:20 PM. Plotted By: Miller, Brian S.

THIS DRAWING IS AND SHALL REMAIN THE PROPERTY OF GANNETT FLEMING, INC. ANY REUSE, ALTERATIONS, ADDITIONS, AND/OR DELETIONS OF THESE DRAWINGS ON PROJECT EXTENSIONS OR OTHER PROJECTS SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO GANNETT FLEMING, INC. IN THE EVENT THAT A CONFLICT ARISES BETWEEN THE SEALED DRAWINGS AND THE ELECTRONIC FILES, THE SEALED DRAWINGS WILL GOVERN.

NO.	DESCRIPTION	DATE	BY	ECN
1	RESPOND TO USACE COMMENTS	09/19	ECN	
REVISIONS				

DESIGNED	CADD	SCALE
MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX



EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

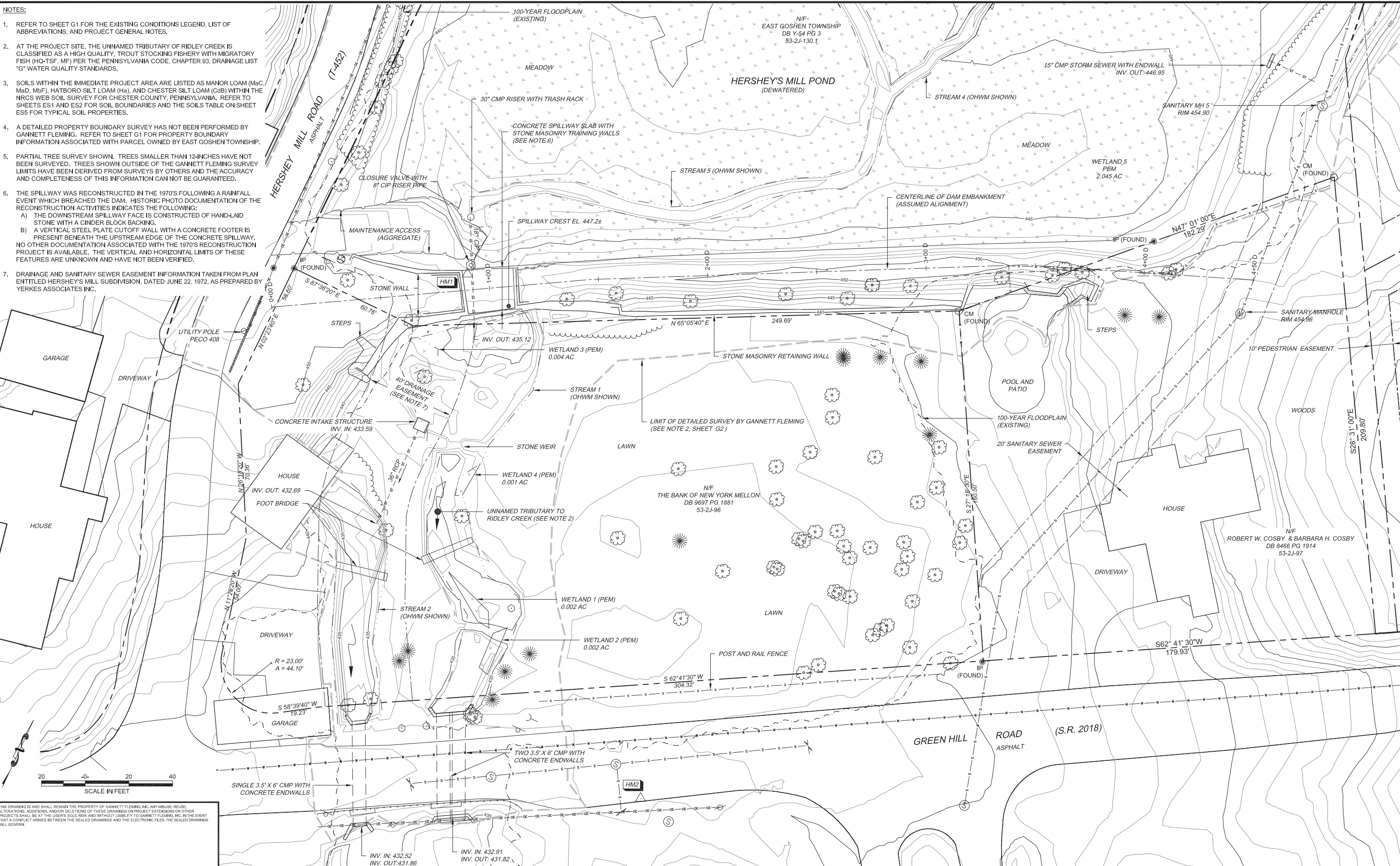
**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

**EXISTING CONDITIONS
OVERALL SITE PLAN**

JOB NO.	SHEET NO.
60466	G2
DATE	DRAWING NO.
SEPT. 2019	3 OF 34

NOTES:

- REFER TO SHEET G1 FOR THE EXISTING CONDITIONS LEGEND, LIST OF ABBREVIATIONS, AND PROJECT GENERAL NOTES.
- AT THE PROJECT SITE, THE UNNAMED TRIBUTARY OF RIDLEY CREEK IS CLASSIFIED AS A HIGH QUALITY, TROUT STOCKING FISHERY WITH MIGRATORY FISH (HQ-TSF, MF) PER THE PENNSYLVANIA CODE, CHAPTER 93, DRAINAGE LIST "G" WATER QUALITY STANDARDS.
- SOILS WITHIN THE IMMEDIATE PROJECT AREA ARE LISTED AS MANOR LOAM (MaC, MaD, MbF), HATBORO SILT LOAM (Ha), AND CHESTER SILT LOAM (CbB) WITHIN THE NRCS WEB SOIL SURVEY FOR CHESTER COUNTY, PENNSYLVANIA. REFER TO SHEETS ES1 AND ES2 FOR SOIL BOUNDARIES AND THE SOILS TABLE ON SHEET ES5 FOR TYPICAL SOIL PROPERTIES.
- A DETAILED PROPERTY BOUNDARY SURVEY HAS NOT BEEN PERFORMED BY GANNETT FLEMING. REFER TO SHEET G1 FOR PROPERTY BOUNDARY INFORMATION ASSOCIATED WITH PARCEL OWNED BY EAST GOSHEN TOWNSHIP.
- PARTIAL TREE SURVEY SHOWN. TREES SMALLER THAN 12-INCHES HAVE NOT BEEN SURVEYED. TREES SHOWN OUTSIDE OF THE GANNETT FLEMING SURVEY LIMITS HAVE BEEN DERIVED FROM SURVEYS BY OTHERS AND THE ACCURACY AND COMPLETENESS OF THIS INFORMATION CAN NOT BE GUARANTEED.
- THE SPILLWAY WAS RECONSTRUCTED IN THE 1970'S FOLLOWING A RAINFALL EVENT WHICH BREACHED THE DAM. HISTORIC PHOTO DOCUMENTATION OF THE RECONSTRUCTION ACTIVITIES INDICATES THE FOLLOWING:
 - THE DOWNSTREAM SPILLWAY FACE IS CONSTRUCTED OF HAND-LAID STONE WITH A CINDER BLOCK BACKING.
 - A VERTICAL STEEL PLATE CUTOFF WALL WITH A CONCRETE FOOTER IS PRESENT BENEATH THE UPSTREAM EDGE OF THE CONCRETE SPILLWAY. NO OTHER DOCUMENTATION ASSOCIATED WITH THE 1970'S RECONSTRUCTION PROJECT IS AVAILABLE. THE VERTICAL AND HORIZONTAL LIMITS OF THESE FEATURES ARE UNKNOWN AND HAVE NOT BEEN VERIFIED.
- DRAINAGE AND SANITARY SEWER EASEMENT INFORMATION TAKEN FROM PLAN ENTITLED HERSHEY'S MILL SUBDIVISION, DATED JUNE 22, 1972, AS PREPARED BY YERKES ASSOCIATES INC.



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1	RESPOND TO USACE COMMENTS	09/19	ECN

DESIGNED	CADD	SCALE
MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX



EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

DECOMMISSIONING OF
HERSHEY'S MILL DAM

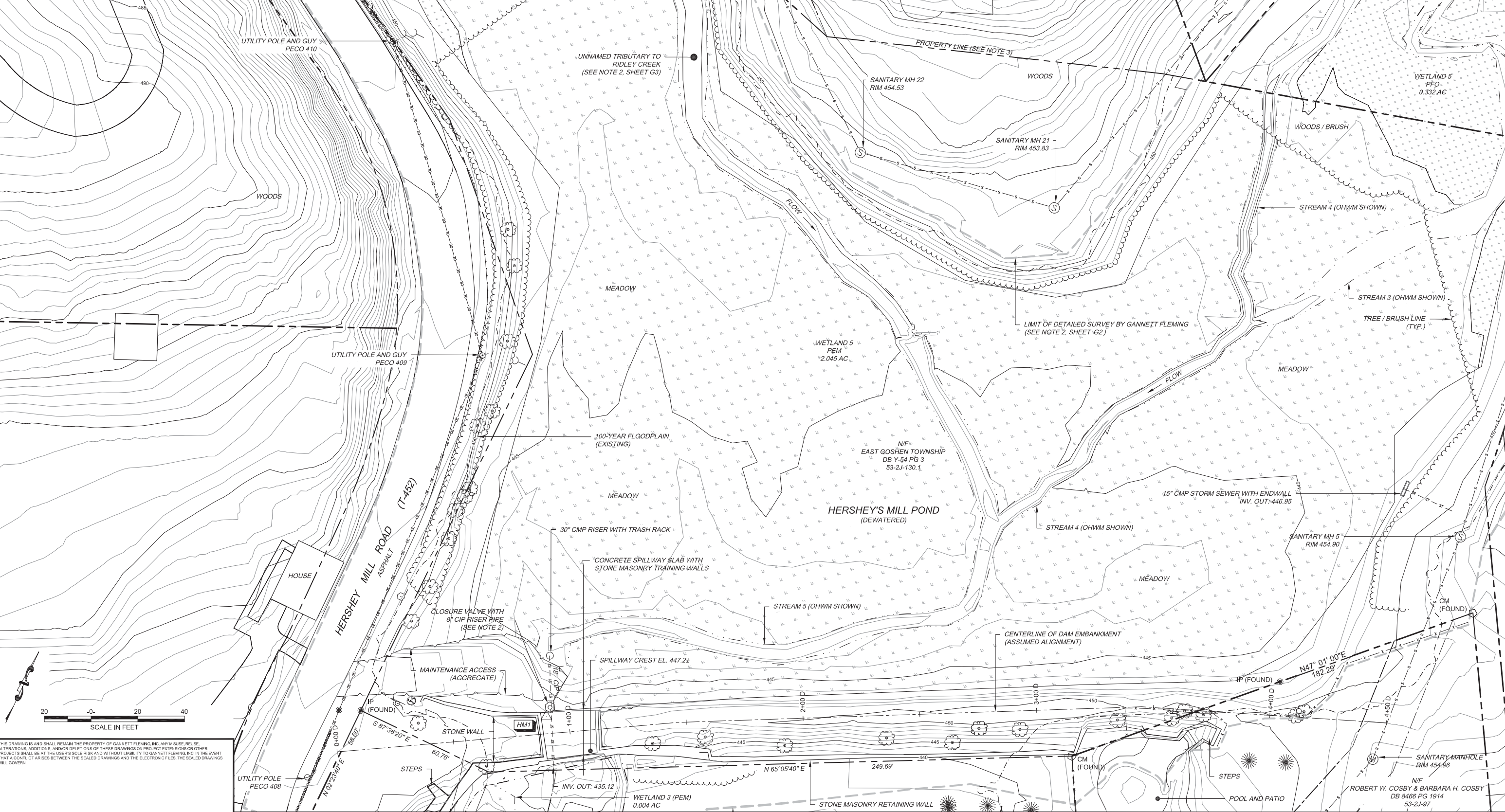
EXISTING CONDITIONS
ENLARGED PLAN OF DAM

JOB NO.	SHEET NO.
60466	G3
DATE	DRAWING NO.
SEPT. 2019	4 OF 34

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 Plot Date: 9/22/2019 2:21 PM, Plotted By: Miller, Brian S.

NOTES:

1. REFER TO SHEET G1 FOR THE EXISTING CONDITIONS LEGEND, LIST OF ABBREVIATIONS, AND PROJECT GENERAL NOTES.
2. EAST GOSHEN TOWNSHIP CURRENTLY OPERATES HERSHEY MILL RESERVOIR IN A DEWATERED CONDITION (I.E., THE CLOSURE VALVE IS MAINTAINED IN AN OPEN POSITION). THE CONTRACTOR IS MADE AWARE THAT BASE FLOW CONDITIONS AND RAINFALL EVENTS MAY RESULT IN CHANGING WATER ELEVATIONS BOTH WITHIN THE RESERVOIR AND DOWNSTREAM OF THE DAM. REFER TO PROJECT GENERAL NOTE NO. 8 ON SHEET G1.
3. REFER TO SHEET G1 FOR PROPERTY BOUNDARY INFORMATION OF PARCEL OWNED BY EAST GOSHEN TOWNSHIP.



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NO.	DESCRIPTION	DATE	BY
1	RESPOND TO USACE COMMENTS	09/19	ECN

DESIGNED	CADD	SCALE
MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX

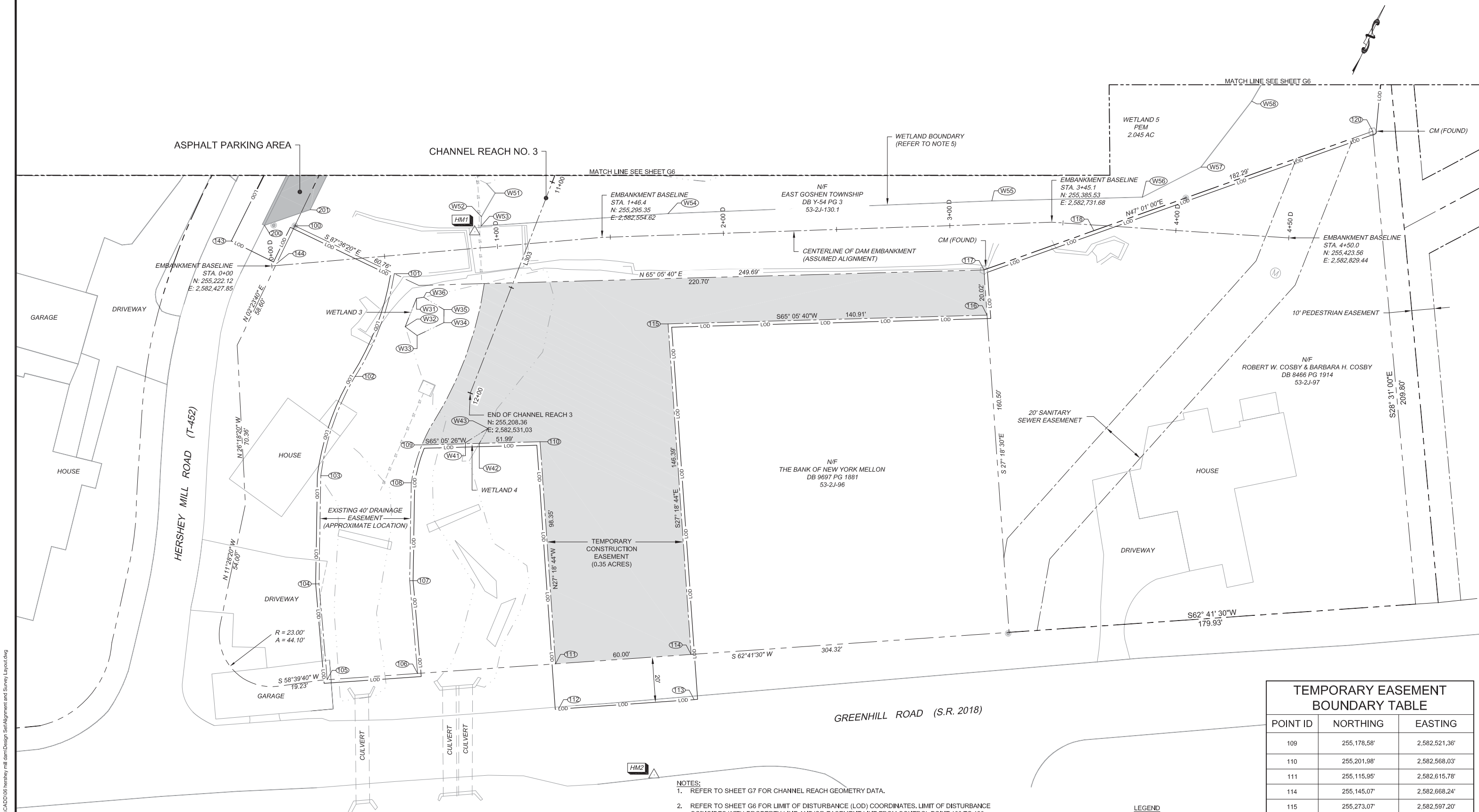


EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

**EXISTING CONDITIONS
ENLARGED PLAN OF RESERVOIR**

JOB NO.	SHEET NO.
60466	G4
DATE	DRAWING NO.
SEPT. 2019	5 OF 34

w:\426\active jobs\60466 - east goshen township\05 working\CADD\06 hershey mill dam\Design Set\EXISTING PLAN OF DAM.dwg
Plot Date: 9/22/19 2:21 PM. Plotted By: Miller, Brian S.



TEMPORARY EASEMENT BOUNDARY TABLE		
POINT ID	NORTHING	EASTING
109	255,178.58'	2,582,521.36'
110	255,201.98'	2,582,568.03'
111	255,115.95'	2,582,615.78'
114	255,145.07'	2,582,668.24'
115	255,273.07'	2,582,597.20'
116	255,336.23'	2,582,723.18'
117	255,353.73'	2,582,713.46'

CONTROL POINT TABLE				
POINT ID	NORTHING	EASTING	ELEV. (FT)	DESCRIPTION
HM1	255,273.75	2,582,502.59	446.79	PK NAIL SET IN CONCRETE SPILLWAY
HM2	255,089.94	2,582,675.96	438.01	PK NAIL SET IN ASPHALT

- NOTES:**
- REFER TO SHEET G7 FOR CHANNEL REACH GEOMETRY DATA.
 - REFER TO SHEET G6 FOR LIMIT OF DISTURBANCE (LOD) COORDINATES. LIMIT OF DISTURBANCE COINCIDES WITH PROPERTY LINE AND/OR EASEMENT LINE FROM CONTROL POINT 100 TO 120 AND FROM CONTROL POINT 121 TO 122. LOD LINE SHOWN OFFSET FROM THE PROPERTY LINE AND/OR EASEMENT LINE BY 18-INCHES IN THESE AREAS FOR CLARITY.
 - LOD COINCIDES WITH THE CENTERLINE OF HERSHEY MILL ROAD FROM CONTROL POINT 142 TO 143.
 - REFER TO SHEET G2, NOTES 3 AND 4 FOR VERTICAL AND HORIZONTAL DATUM INFORMATION.
 - REFER TO SHEET G6 FOR WETLAND COORDINATES. COORDINATES PROVIDED FOR ONLY THOSE WETLANDS LOCATED WITHIN THE LIMIT OF DISTURBANCE.

LEGEND

- TEMPORARY EASEMENT AREAS
- EASEMENT BOUNDARY LINE
- PROPERTY BOUNDARY LINE
- CONTROL POINT LOCATION
- LIMIT OF DISTURBANCE LINE



W:\426\active jobs\60466 - east goshen township\05 working\CADD\06 hershey mill dam\Design Set\Alignment and Survey Layout.dwg
 Plot Date: 9/19/2019 2:21 PM. Plotted By: Miller, Brian S.

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REVISIONS				DESIGNED	CADD	SCALE
1	RESPOND TO USACE COMMENTS	09/19	ECN	MJL	JAO	AS SHOWN
NO.	DESCRIPTION	DATE	BY	DRAWN	CHECKED	APPROVED
				JAO	RWS	XXX



EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

**ALIGNMENT LAYOUT AND
SURVEY CONTROL PLAN
(1 OF 3)**

JOB NO. 60466	SHEET NO. G5
DATE SEPT. 2019	DRAWING NO. 6 OF 34

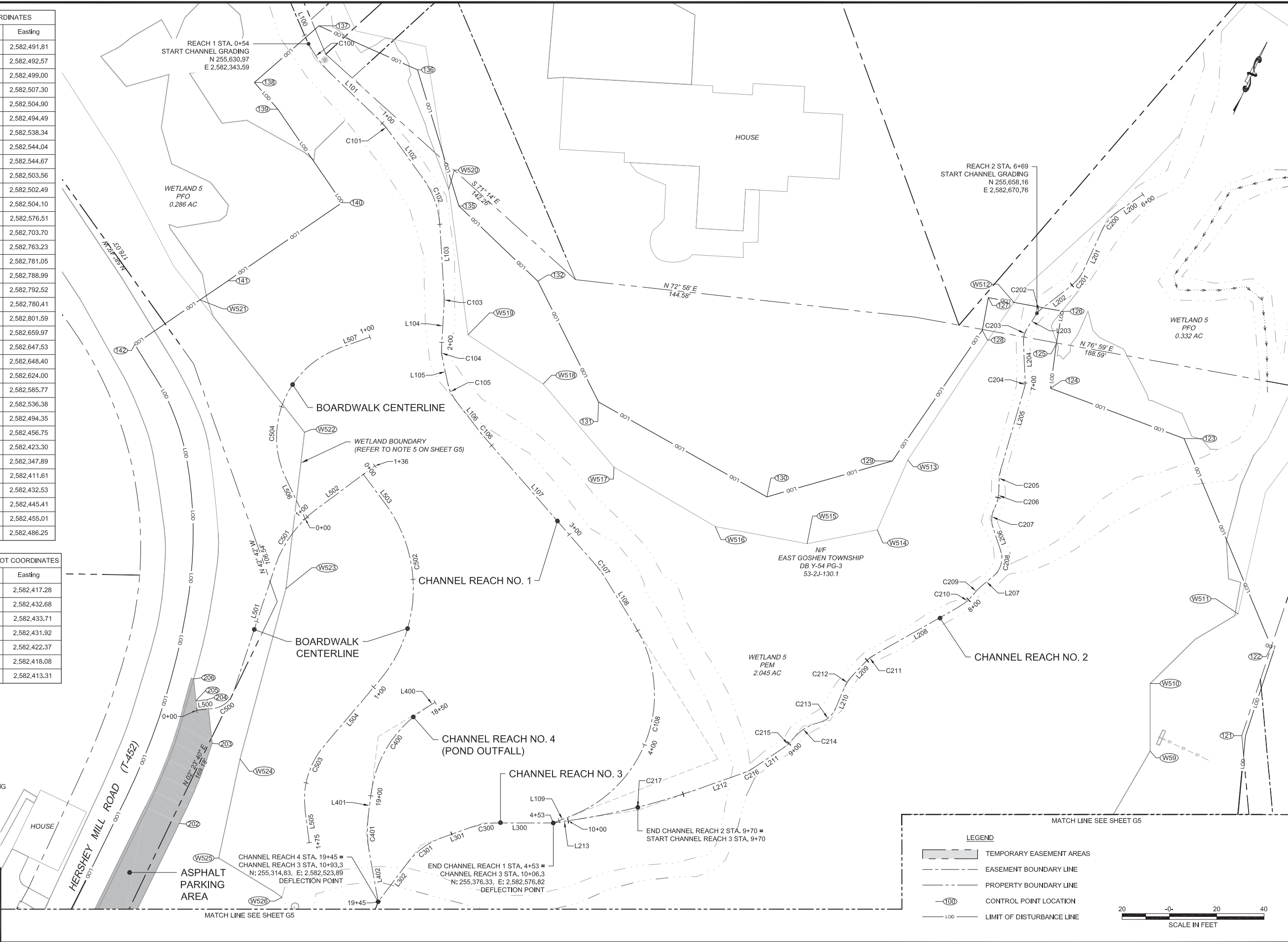
Point ID	Northing	Easting
100	255,242.52	2,582,429.50
101	255,241.96	2,582,478.23
102	255,193.48	2,582,481.82
103	255,147.37	2,582,486.66
104	255,103.73	2,582,506.22
105	255,066.91	2,582,527.41
106	255,086.32	2,582,562.39
107	255,121.93	2,582,541.90
108	255,161.42	2,582,524.20
109	255,178.58	2,582,521.36
110	255,201.98	2,582,568.03
111	255,115.95	2,582,615.78
112	255,098.46	2,582,625.49
113	255,127.58	2,582,677.95
114	255,145.07	2,582,668.24
115	255,273.07	2,582,597.20
116	255,336.23	2,582,723.18
117	255,353.73	2,582,713.46
118	255,390.02	2,582,750.13
119	NOT USED	
120	255,481.97	2,582,843.02
121	255,533.05	2,582,824.82
122	255,572.39	2,582,820.23
123	255,636.48	2,582,749.50
124	255,631.88	2,582,689.41
125	255,649.88	2,582,683.62
126	255,663.43	2,582,680.08
127	255,655.41	2,582,649.33
128	255,641.86	2,582,652.86
129	255,575.65	2,582,641.79
130	255,539.49	2,582,600.21
131	255,545.69	2,582,518.76
132	255,581.06	2,582,473.90
133	NOT USED	
134	NOT USED	
135	255,595.79	2,582,430.15
136	255,640.52	2,582,389.98
137	255,639.68	2,582,344.35
138	255,606.45	2,582,329.79
139	255,600.43	2,582,343.53
140	255,576.09	2,582,384.91
141	255,525.80	2,582,355.16
142	255,484.72	2,582,330.87
143	255,224.56	2,582,406.98
144	255,224.04	2,582,429.29

Point ID	Northing	Easting
W31	255,236.21	2,582,491.81
W32	255,222.72	2,582,492.57
W33	255,221.48	2,582,499.00
W34	255,231.61	2,582,507.30
W35	255,236.90	2,582,504.90
W36	255,238.04	2,582,494.49
W41	255,187.62	2,582,538.34
W42	255,189.95	2,582,544.04
W43	255,197.53	2,582,544.67
W51	255,293.10	2,582,503.56
W52	255,281.11	2,582,502.49
W53	255,277.22	2,582,504.10
W54	255,317.20	2,582,576.51
W55	255,382.83	2,582,703.70
W56	255,412.52	2,582,763.23
W57	255,435.49	2,582,781.05
W58	255,471.31	2,582,788.99
W59	255,510.74	2,582,792.52
W510	255,536.57	2,582,780.41
W511	255,579.03	2,582,801.59
W512	255,658.18	2,582,659.97
W513	255,578.82	2,582,647.53
W514	255,546.58	2,582,648.40
W515	255,528.72	2,582,624.00
W516	255,518.86	2,582,585.77
W517	255,523.54	2,582,536.38
W518	255,542.64	2,582,494.35
W519	255,548.07	2,582,456.75
W520	255,600.31	2,582,423.30
W521	255,513.50	2,582,347.89
W522	255,481.47	2,582,411.61
W523	255,418.23	2,582,432.53
W524	255,344.76	2,582,445.41
W525	255,302.97	2,582,455.01
W526	255,299.26	2,582,486.25

Point ID	Northing	Easting
200	255,237.04	2,582,417.28
201	255,251.89	2,582,432.68
202	255,309.21	2,582,433.71
203	255,345.75	2,582,431.92
204	255,361.72	2,582,422.37
205	255,359.15	2,582,418.08
206	255,367.13	2,582,413.31

- NOTES:
- REFER TO SHEET G7 FOR CHANNEL REACH AND DRIVEWAY/PARKING AREA CENTERLINE DATA.
 - REFER TO SHEET G2, NOTES 3 AND 4 FOR VERTICAL AND HORIZONTAL DATUM INFORMATION.
 - REFER TO SHEETS G14 AND G15 FOR CHANNEL REACH PROFILES.

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MATCH LINE SEE SHEET G5

LEGEND

- TEMPORARY EASEMENT AREAS
- EASEMENT BOUNDARY LINE
- PROPERTY BOUNDARY LINE
- CONTROL POINT LOCATION
- LIMIT OF DISTURBANCE LINE

SCALE IN FEET: 0 20 40

NO.	DESCRIPTION	DATE	BY
1	RESPOND TO USACE COMMENTS	09/19	ECN

DESIGNED	CADD	SCALE
MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX



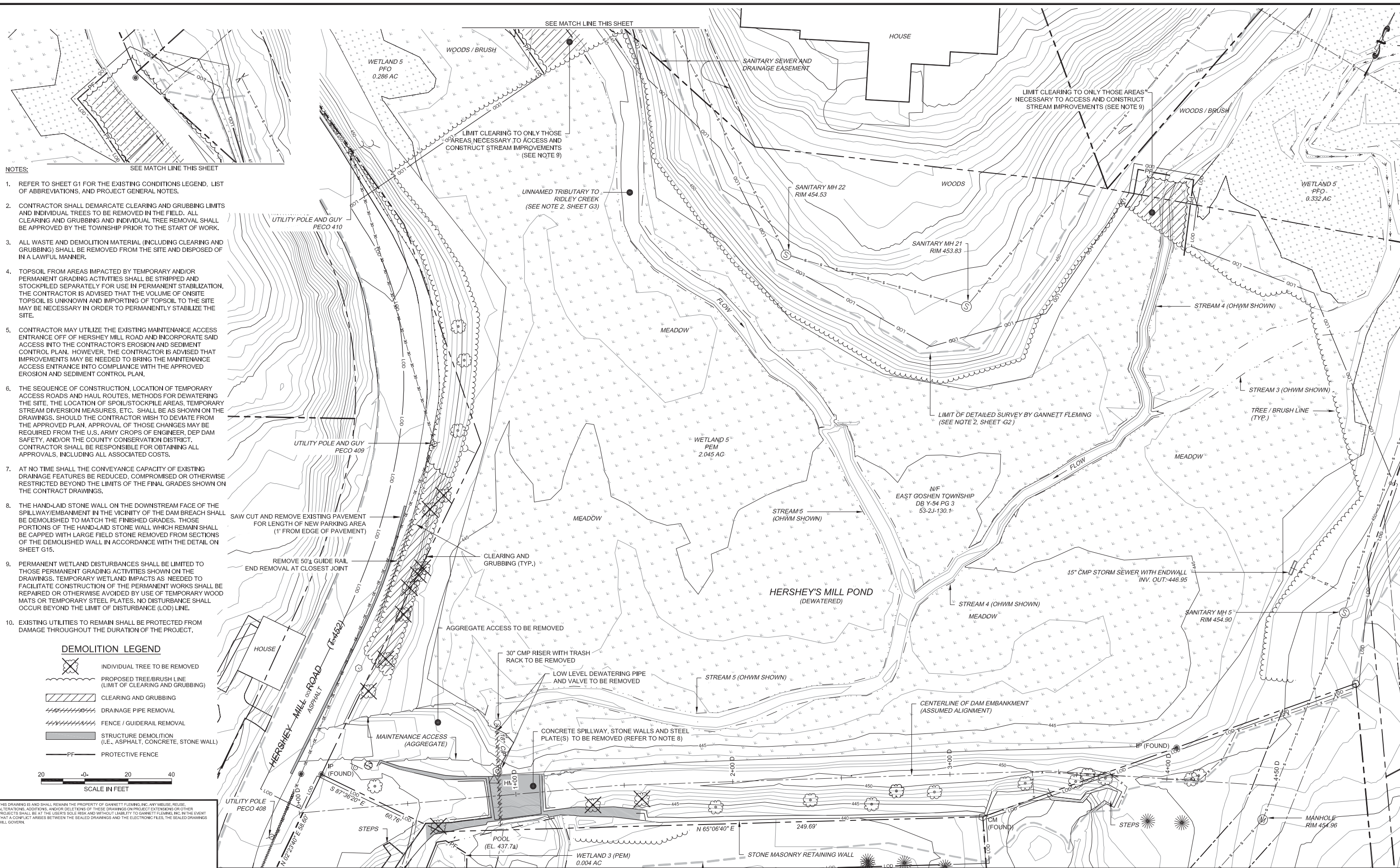
EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

DECOMMISSIONING OF
HERSHEY'S MILL DAM

ALIGNMENT LAYOUT AND
SURVEY CONTROL PLAN
(2 OF 3)

JOB NO.	SHEET NO.
60466	G6
DATE	DRAWING NO.
SEPT. 2019	7 OF 34

W:\426 active jobs\60466 - east goshen township\05 working\CADD\06 hershey mill dam\Design Set\Alignment and Survey Layout.dwg
 Plot Date: 9/20/2019 2:21 PM. Plotted By: Miller, Brian S.



- NOTES:**
- REFER TO SHEET G1 FOR THE EXISTING CONDITIONS LEGEND, LIST OF ABBREVIATIONS, AND PROJECT GENERAL NOTES.
 - CONTRACTOR SHALL DEMARCATÉ CLEARING AND GRUBBING LIMITS AND INDIVIDUAL TREES TO BE REMOVED IN THE FIELD. ALL CLEARING AND GRUBBING AND INDIVIDUAL TREE REMOVAL SHALL BE APPROVED BY THE TOWNSHIP PRIOR TO THE START OF WORK.
 - ALL WASTE AND DEMOLITION MATERIAL (INCLUDING CLEARING AND GRUBBING) SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
 - TOPSOIL FROM AREAS IMPACTED BY TEMPORARY AND/OR PERMANENT GRADING ACTIVITIES SHALL BE STRIPPED AND STOCKPILED SEPARATELY FOR USE IN PERMANENT STABILIZATION. THE CONTRACTOR IS ADVISED THAT THE VOLUME OF ONSITE TOPSOIL IS UNKNOWN AND IMPORTING OF TOPSOIL TO THE SITE MAY BE NECESSARY IN ORDER TO PERMANENTLY STABILIZE THE SITE.
 - CONTRACTOR MAY UTILIZE THE EXISTING MAINTENANCE ACCESS ENTRANCE OFF OF HERSHEY MILL ROAD AND INCORPORATE SAID ACCESS INTO THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN. HOWEVER, THE CONTRACTOR IS ADVISED THAT IMPROVEMENTS MAY BE NEEDED TO BRING THE MAINTENANCE ACCESS ENTRANCE INTO COMPLIANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
 - THE SEQUENCE OF CONSTRUCTION, LOCATION OF TEMPORARY ACCESS ROADS AND HAUL ROUTES, METHODS FOR DEWATERING THE SITE, THE LOCATION OF SPOIL/STOCKPILE AREAS, TEMPORARY STREAM DIVERSION MEASURES, ETC. SHALL BE AS SHOWN ON THE DRAWINGS. SHOULD THE CONTRACTOR WISH TO DEVIATE FROM THE APPROVED PLAN, APPROVAL OF THOSE CHANGES MAY BE REQUIRED FROM THE U.S. ARMY CORPS OF ENGINEER, DEP DAM SAFETY, AND/OR THE COUNTY CONSERVATION DISTRICT. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPROVALS, INCLUDING ALL ASSOCIATED COSTS.
 - AT NO TIME SHALL THE CONVEYANCE CAPACITY OF EXISTING DRAINAGE FEATURES BE REDUCED, COMPROMISED OR OTHERWISE RESTRICTED BEYOND THE LIMITS OF THE FINAL GRADES SHOWN ON THE CONTRACT DRAWINGS.
 - THE HAND-LAID STONE WALL ON THE DOWNSTREAM FACE OF THE SPILLWAY/EMBANKMENT IN THE VICINITY OF THE DAM BREACH SHALL BE DEMOLISHED TO MATCH THE FINISHED GRADES. THOSE PORTIONS OF THE HAND-LAID STONE WALL WHICH REMAIN SHALL BE CAPPED WITH LARGE FIELD STONE REMOVED FROM SECTIONS OF THE DEMOLISHED WALL IN ACCORDANCE WITH THE DETAIL ON SHEET G15.
 - PERMANENT WETLAND DISTURBANCES SHALL BE LIMITED TO THOSE TEMPORARY GRADING ACTIVITIES SHOWN ON THE DRAWINGS. TEMPORARY WETLAND IMPACTS AS NEEDED TO FACILITATE CONSTRUCTION OF THE PERMANENT WORKS SHALL BE REPAIRED OR OTHERWISE AVOIDED BY USE OF TEMPORARY WOOD MATS OR TEMPORARY STEEL PLATES. NO DISTURBANCE SHALL OCCUR BEYOND THE LIMIT OF DISTURBANCE (LOD) LINE.
 - EXISTING UTILITIES TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE DURATION OF THE PROJECT.

DEMOLITION LEGEND

- INDIVIDUAL TREE TO BE REMOVED
- PROPOSED TREE/BRUSH LINE (LIMIT OF CLEARING AND GRUBBING)
- CLEARING AND GRUBBING
- DRAINAGE PIPE REMOVAL
- FENCE / GUIDERAIL REMOVAL
- STRUCTURE DEMOLITION (I.E., ASPHALT, CONCRETE, STONE WALL)
- PF - PROTECTIVE FENCE



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NO.	DESCRIPTION	DATE	BY
2	RESPOND TO USACE COMMENTS	09/19	ECN
1	RESPOND TO USACE COMMENTS	01/19	ECN

DESIGNED	CADD	SCALE
MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX



EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

DEMOLITION PLAN

JOB NO.	SHEET NO.
60466	G8
DATE	DRAWING NO.
SEPT. 2019	9 OF 34

w:\426\active jobs\60466 - east goshen township\05 working\CADD\08 hershey mill dam\Design Set\DEMOLITION PLAN.dwg
Plot Date: 9/20/19 2:22 PM. Plotted By: Miller, Brian S.

SEE MATCH LINE THIS SHEET

SEE MATCH LINE THIS SHEET

- PROPOSED LEGEND**
- VEHICULAR ASPHALT
 - BOARDWALK
 - REMOVABLE BOARDWALK
 - FLUSH CURB
 - TIMBER GUIDE RAIL
 - REMOVABLE GUIDERAIL POST
 - STEEL RAILING
 - STEEL TOE KICK
 - LARGE BOULDER
 - STEPPING STONE CROSSING
 - LANDSCAPE BOULDER
 - FIELDSTONE SLAB BOULDER
 - STABILIZED TURF
 - NORMAL POOL ELEVATION OF POND AND STREAM

- NOTES:**
- LAYOUT OF LANDSCAPE BOULDERS AND WALKING PATHS TO BE MARKED IN FIELD PRIOR TO CONSTRUCTION.
 - REFER TO SHEET G10 FOR GRADING PLAN. IN THE EVENT OF DISCREPANCIES BETWEEN GRADING SHOWN ON SHEET G9 AND G10, THE GRADING ON SHEET G10 SHALL GOVERN.



X:\17030.00 Hershey Mill Dam Park C&D\WG\ACTIVE\Sheet Set\G-9 SITE LAYOUT PLAN.dwg
Plot Date: 9/17/2019 5:21 PM, Plotted By: Melissa Bailey

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NO.	DESCRIPTION	DATE	BY

DESIGNED	CADD	SCALE
SRL	MB	AS SHOWN
DRAWN	CHECKED	APPROVED
MB	PS	PS



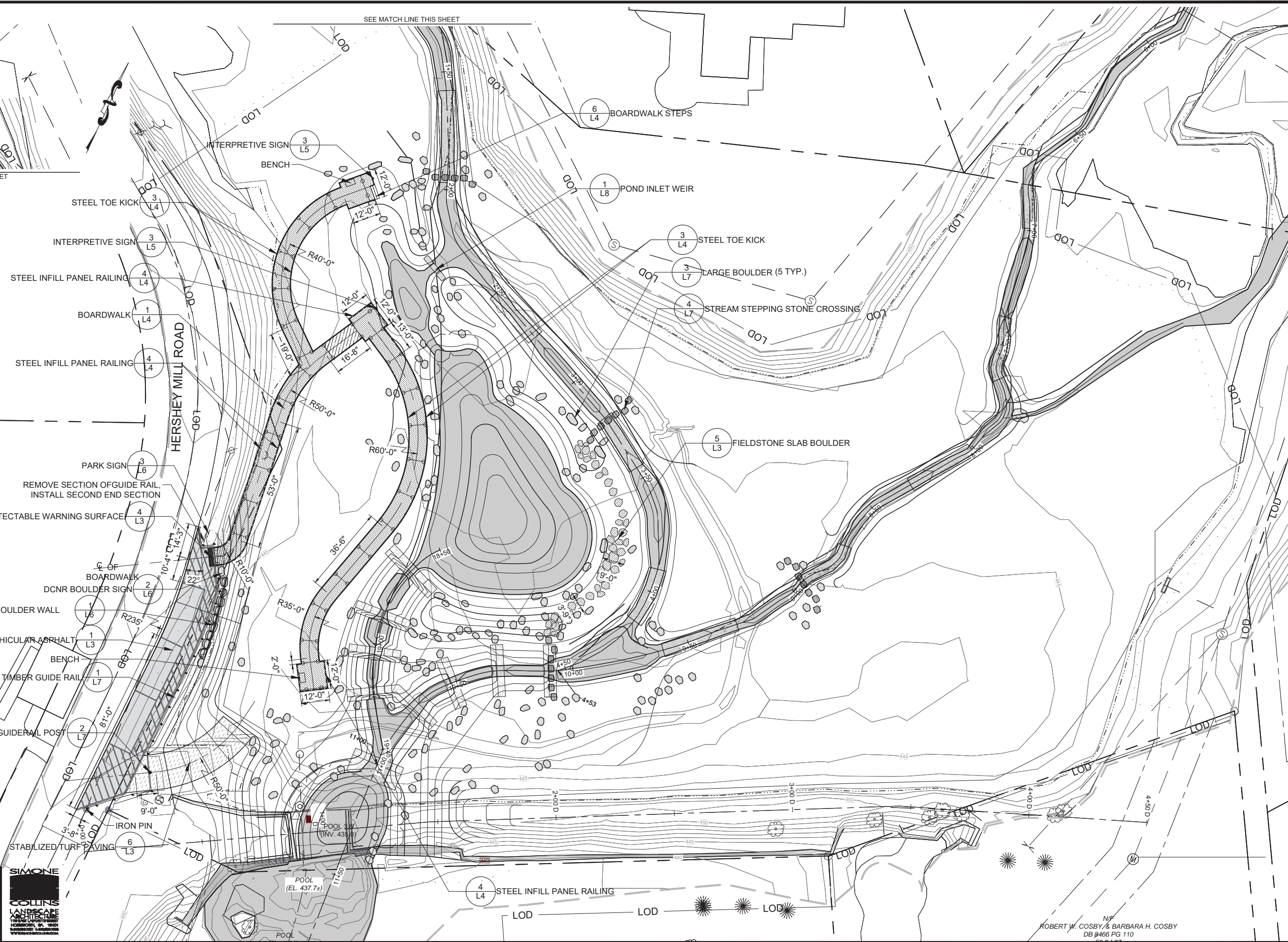
EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

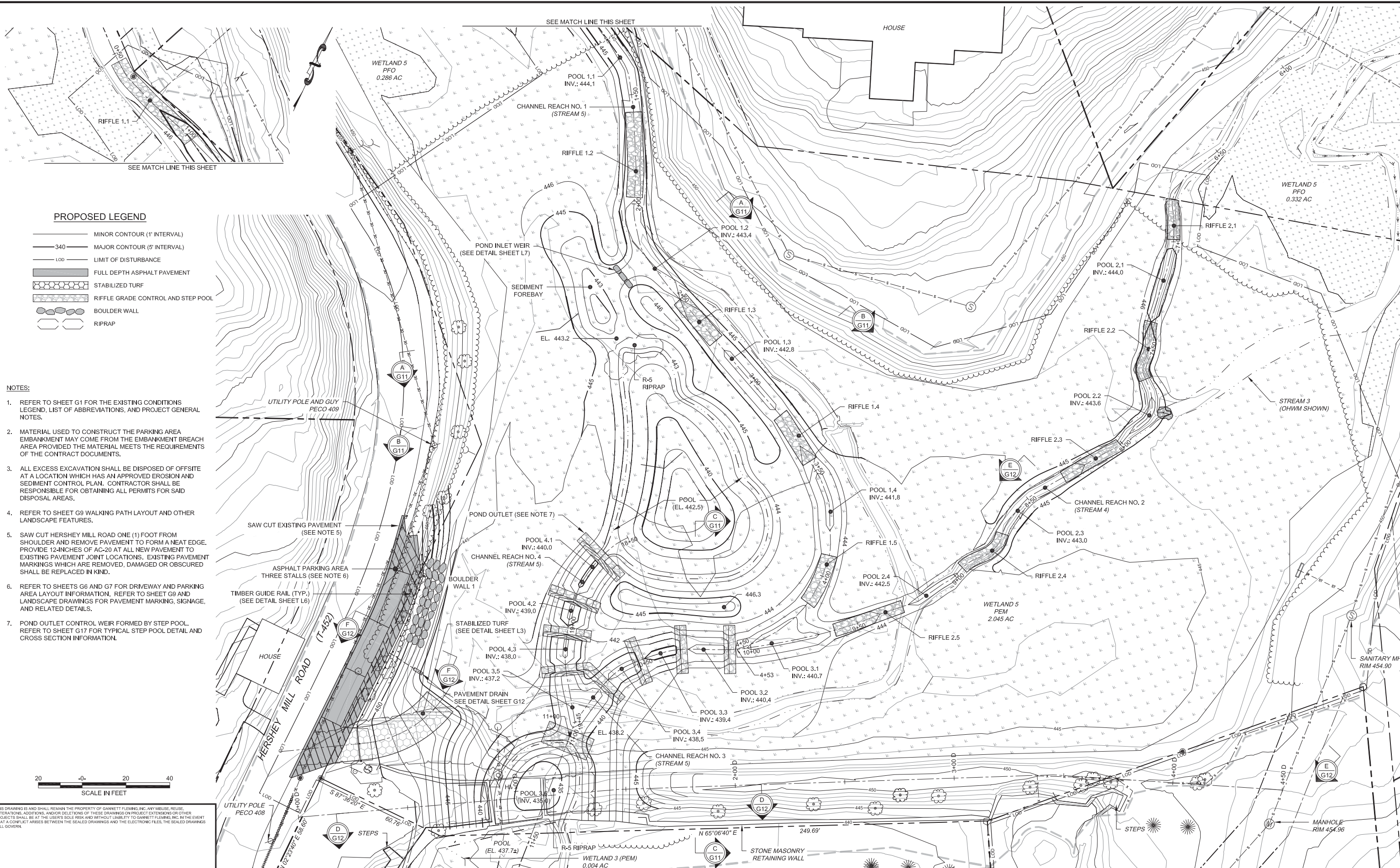
DECOMMISSIONING OF
HERSHEY'S MILL DAM

PROPOSED CONDITIONS
LANDSCAPE PLAN
SITE DETAILS

JOB NO.	SHEET NO.
60466	G9
DATE	DRAWING NO.
SEPT 2019	10 OF 34

N/F
ROBERT W. COSBY & BARBARA H. COSBY
DB 9466 PG 110





PROPOSED LEGEND

- MINOR CONTOUR (1' INTERVAL)
- 340 — MAJOR CONTOUR (5' INTERVAL)
- LOD — LIMIT OF DISTURBANCE
- FULL DEPTH ASPHALT PAVEMENT
- STABILIZED TURF
- RIFFLE GRADE CONTROL AND STEP POOL
- BOULDER WALL
- RIPRAP

NOTES:

1. REFER TO SHEET G1 FOR THE EXISTING CONDITIONS LEGEND, LIST OF ABBREVIATIONS, AND PROJECT GENERAL NOTES.
2. MATERIAL USED TO CONSTRUCT THE PARKING AREA EMBANKMENT MAY COME FROM THE EMBANKMENT BREACH AREA PROVIDED THE MATERIAL MEETS THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. ALL EXCESS EXCAVATION SHALL BE DISPOSED OF OFFSITE AT A LOCATION WHICH HAS AN APPROVED EROSION AND SEDIMENT CONTROL PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS FOR SAID DISPOSAL AREAS.
4. REFER TO SHEET G9 WALKING PATH LAYOUT AND OTHER LANDSCAPE FEATURES.
5. SAW CUT HERSHEY MILL ROAD ONE (1) FOOT FROM SHOULDER AND REMOVE PAVEMENT TO FORM A NEAT EDGE. PROVIDE 12-INCHES OF AC-20 AT ALL NEW PAVEMENT TO EXISTING PAVEMENT JOINT LOCATIONS. EXISTING PAVEMENT MARKINGS WHICH ARE REMOVED, DAMAGED OR OBSCURED SHALL BE REPLACED IN KIND.
6. REFER TO SHEETS G6 AND G7 FOR DRIVEWAY AND PARKING AREA LAYOUT INFORMATION. REFER TO SHEET G9 AND LANDSCAPE DRAWINGS FOR PAVEMENT MARKING, SIGNAGE, AND RELATED DETAILS.
7. POND OUTLET CONTROL WEIR FORMED BY STEP POOL. REFER TO SHEET G17 FOR TYPICAL STEP POOL DETAIL AND CROSS SECTION INFORMATION.



w:\426\active jobs\60466 - east goshen township\cadd\08 hershey mill dam\Design Set\PROPOSED STREAM GRADING PLAN-2.dwg
 Plot Date: 9/20/2019 2:52 PM. Plotted By: Miller, Brian S.

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NO.	REVISIONS	DESCRIPTION	DATE	BY	ECN
1		RESPOND TO USACE COMMENTS	09/19		

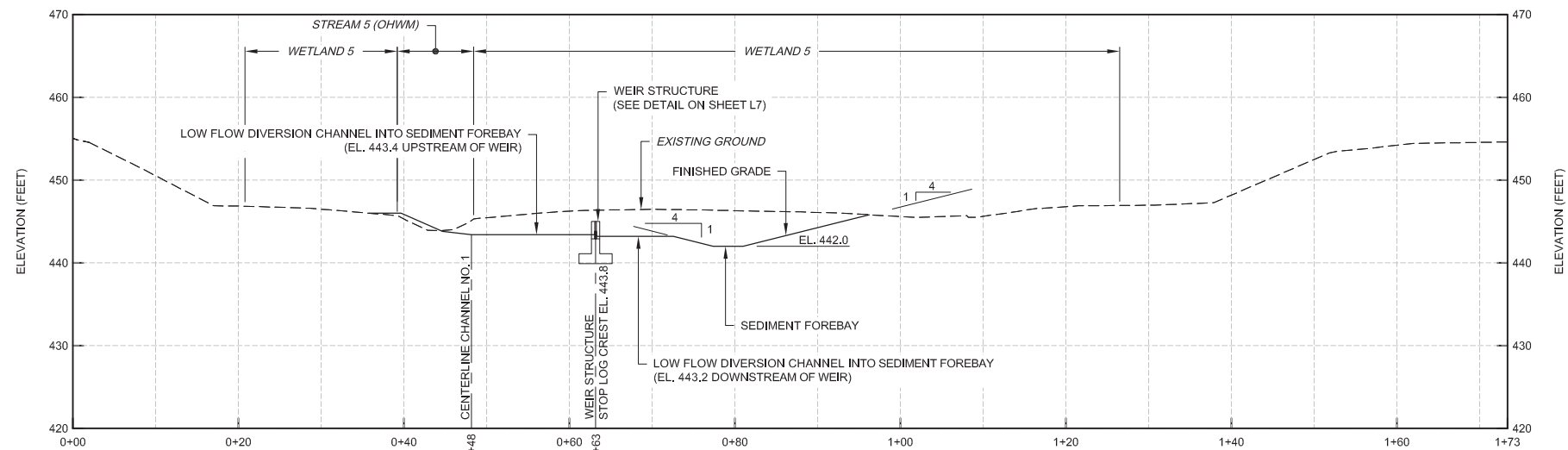
DESIGNED	CADD	SCALE
MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX



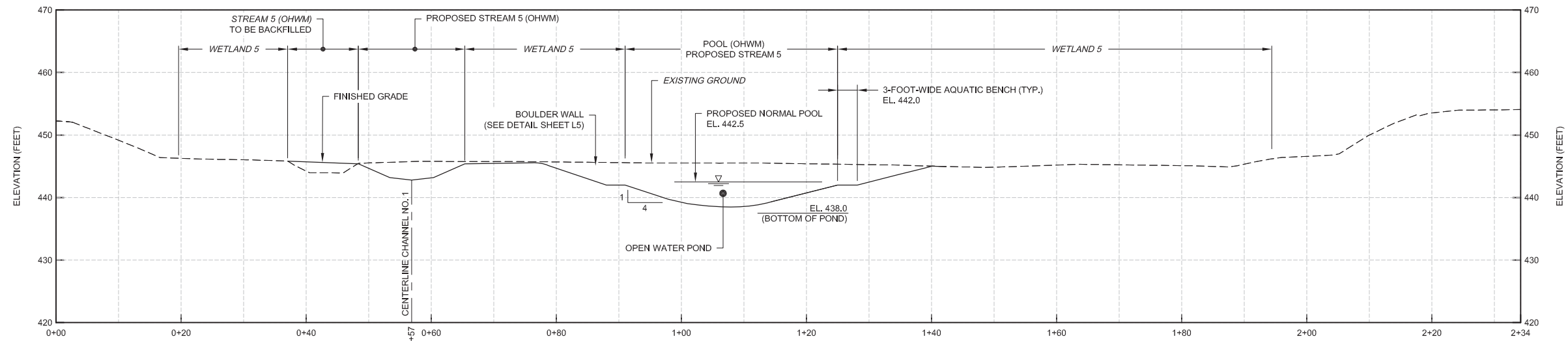
EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

**PROPOSED CONDITIONS
GRADING PLAN**

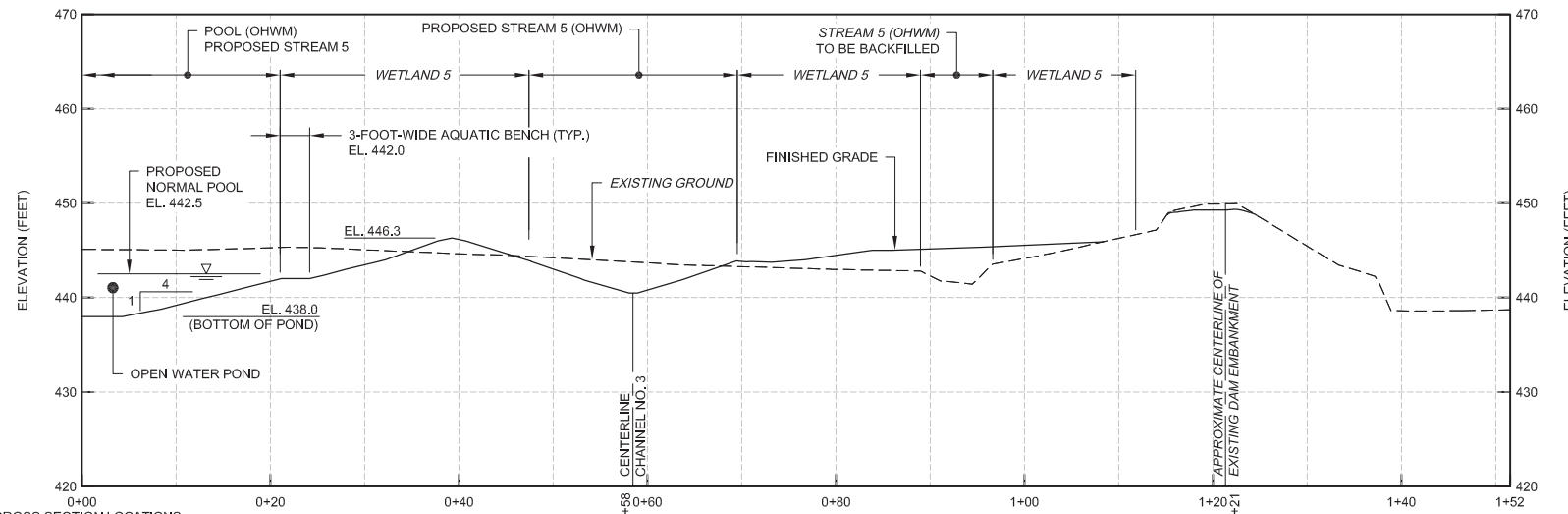
JOB NO.	SHEET NO.
60466	G10
DATE	DRAWING NO.
SEPT. 2019	11 OF 34



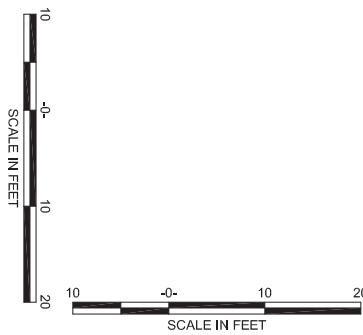
SECTION A
G10
SCALE: 1" = 10'



SECTION B
G10
SCALE: 1" = 10'



SECTION C
G10
SCALE: 1" = 10'



SHEET NOTES:

- REFER TO SHEET G10 FOR CROSS SECTION LOCATIONS.
- REFER TO SHEET L1 FOR CHANNEL STABILIZATION REQUIREMENTS. ALL DISTURBED AREAS WHICH ARE TO BE PERMANENTLY STABILIZED WITH VEGETATION SHALL RECEIVE EROSION CONTROL MATTING.
- WALKING PATH AND BOARDWALK LOCATIONS AND DIMENSIONS SHOWN ON CROSS SECTIONS ARE APPROXIMATE. REFER TO SHEET G9 FOR WALKING PATH/BOARDWALK LAYOUT INFORMATION.

DESIGNED		CADD		SCALE	
MJJ		JAO		AS SHOWN	
DRAWN		CHECKED		APPROVED	
JAO		RWS		XXX	



EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

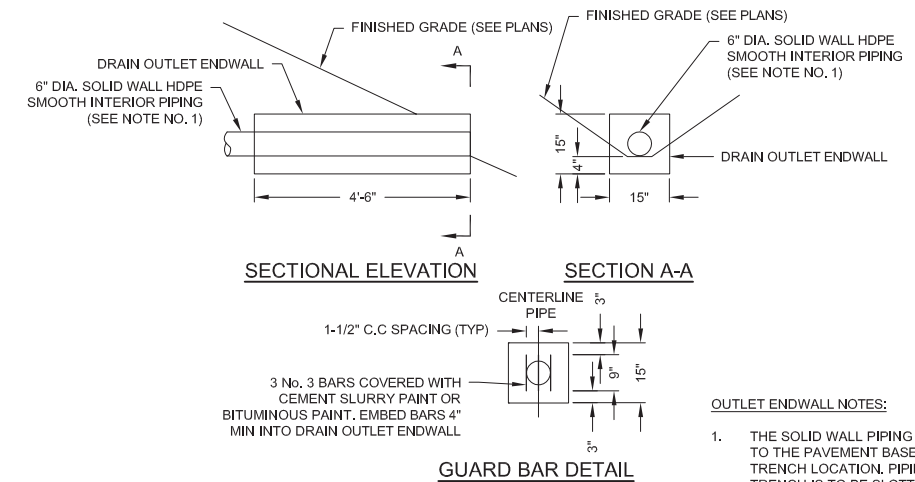
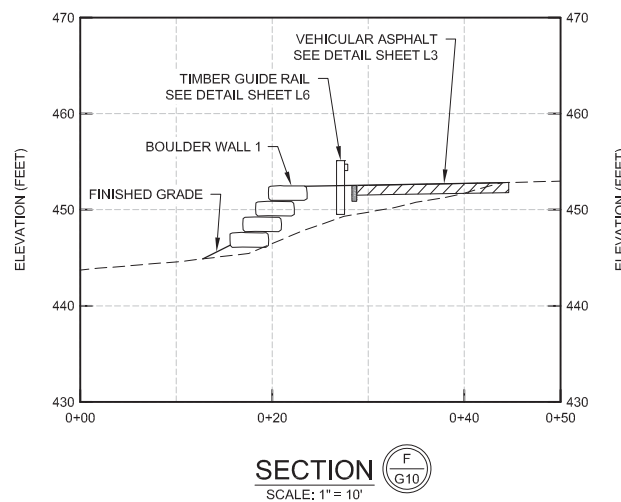
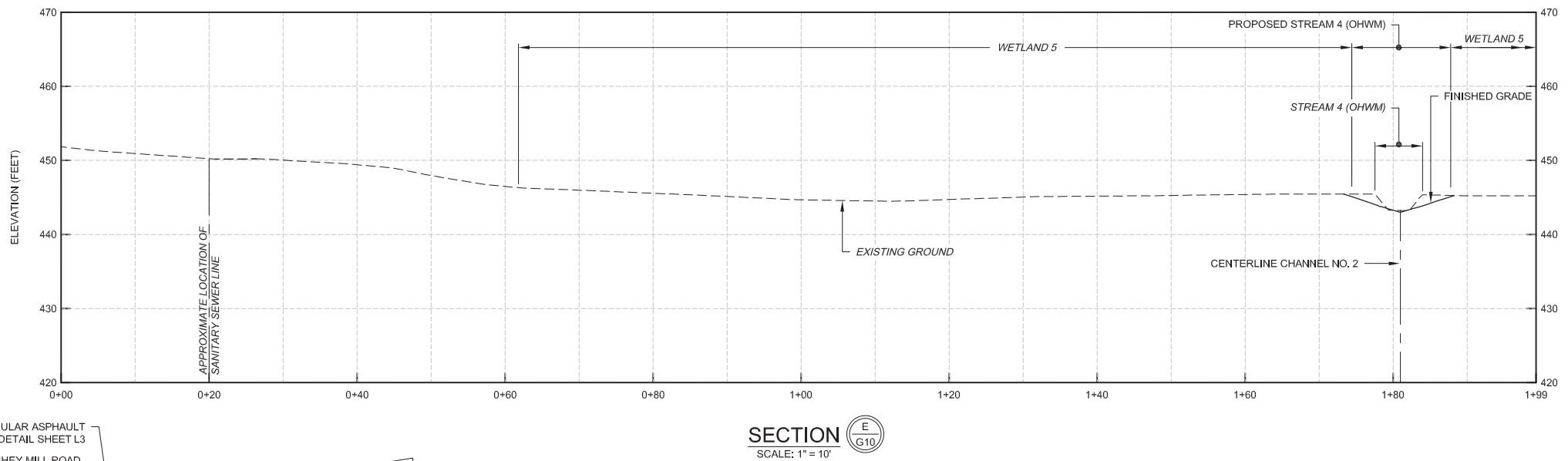
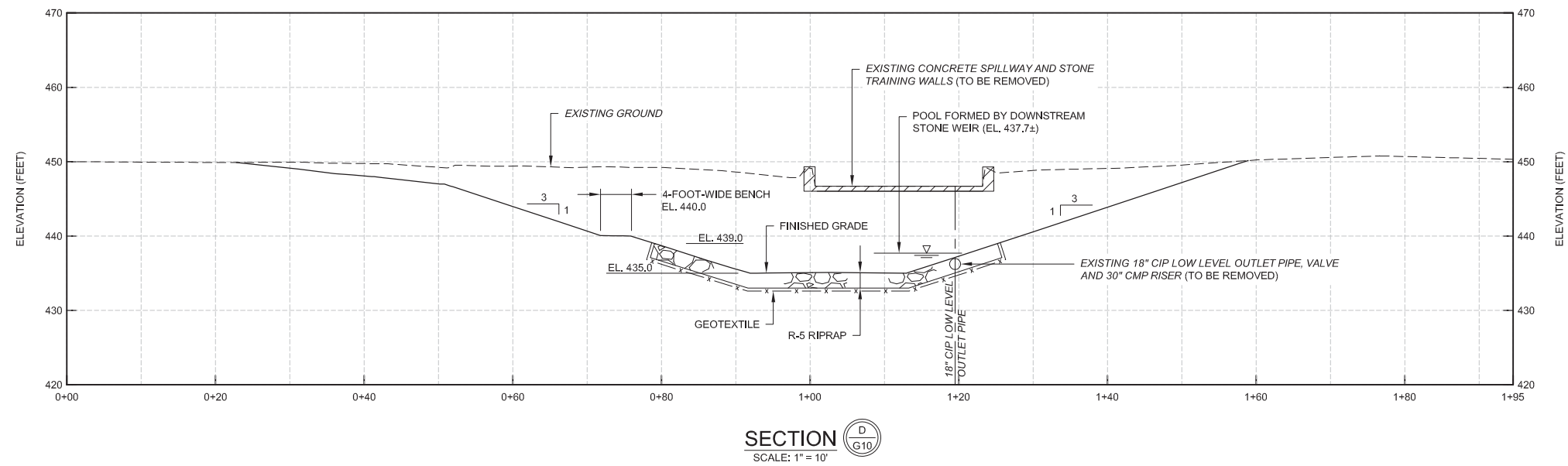
DECOMMISSIONING OF
HERSHEY'S MILL DAM

CROSS SECTIONS
(1 OF 2)

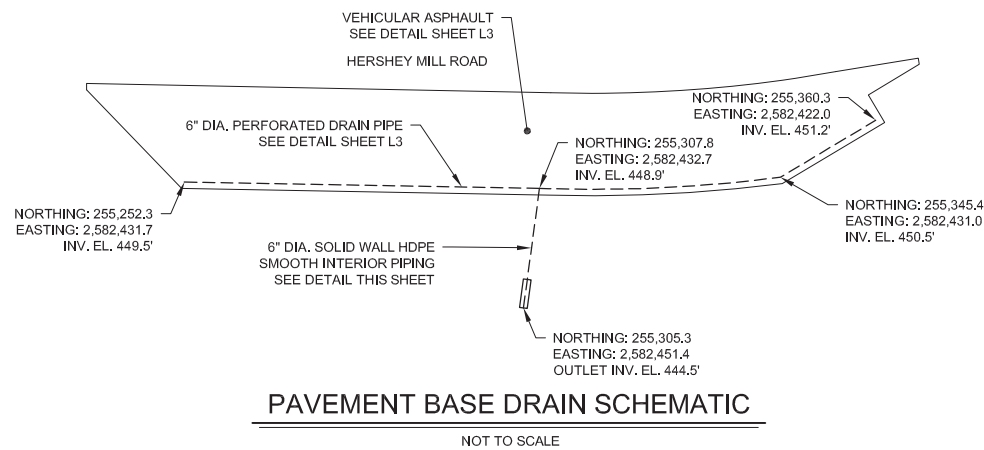
JOB NO.	SHEET NO.
60466	G11
DATE	DRAWING NO.
SEPT. 2019	12 OF 34

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OUTLET ENDWALL FOR PAVEMENT BASE DRAIN
NOT TO SCALE



SHEET NOTES:

- REFER TO SHEET G10 FOR CROSS SECTION LOCATIONS.
- REFER TO SHEET L1 FOR CHANNEL STABILIZATION REQUIREMENTS. ALL DISTURBED AREAS WHICH ARE TO BE PERMANENTLY STABILIZED WITH VEGETATION SHALL RECEIVE EROSION CONTROL MATTING.
- WALKING PATH AND BOARDWALK LOCATIONS AND DIMENSIONS SHOWN ON CROSS SECTIONS ARE APPROXIMATE. REFER TO SHEET G9 FOR WALKING PATH AND BOARDWALK LAYOUT INFORMATION.

NO.	DESCRIPTION	DATE	BY
1	RESPOND TO USACE COMMENTS	09/19	ECN
REVISIONS			

DESIGNED	CADD	SCALE
MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX

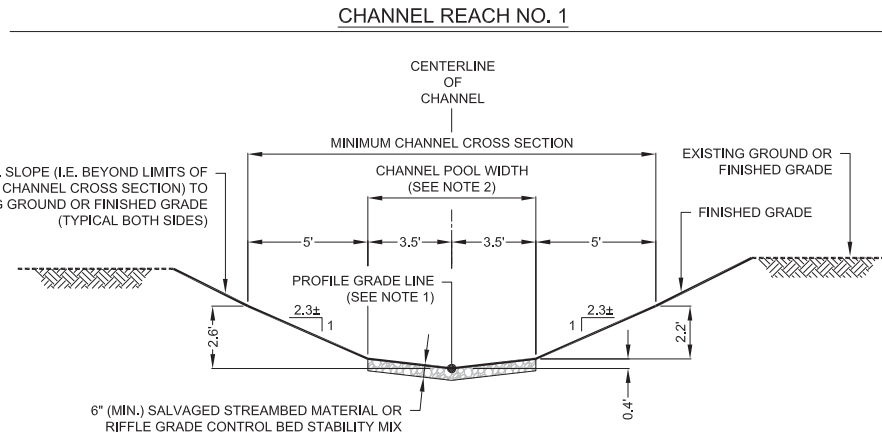


EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

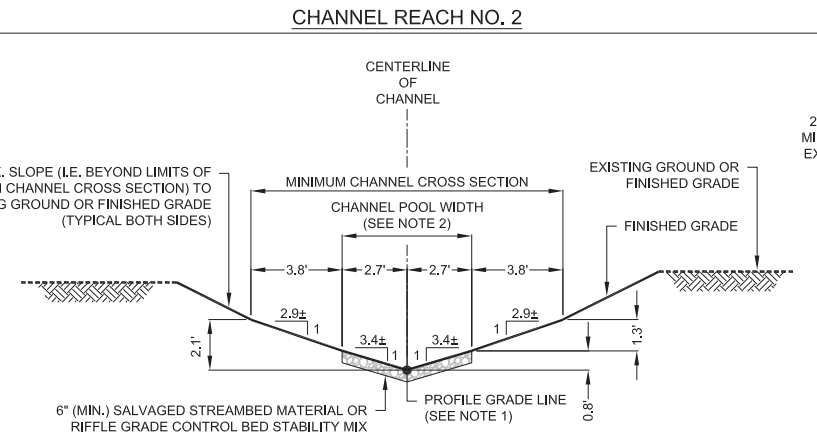
**CROSS SECTIONS
(2 OF 2)**

JOB NO.	SHEET NO.
60466	G12
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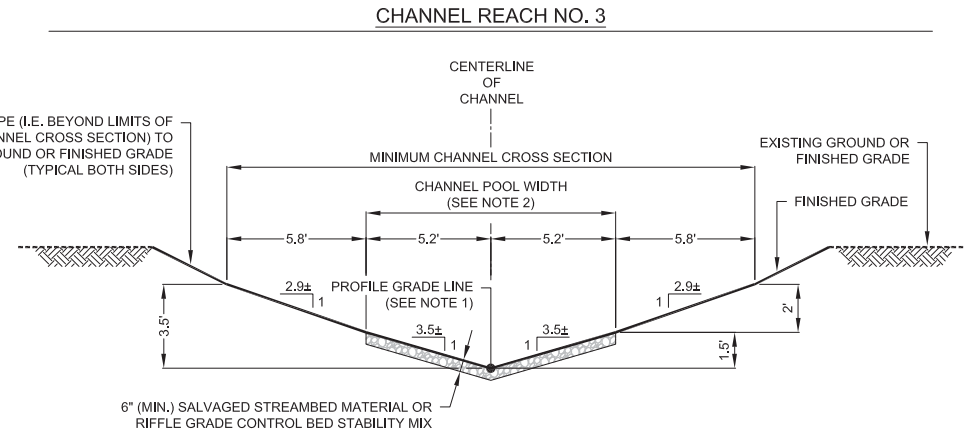
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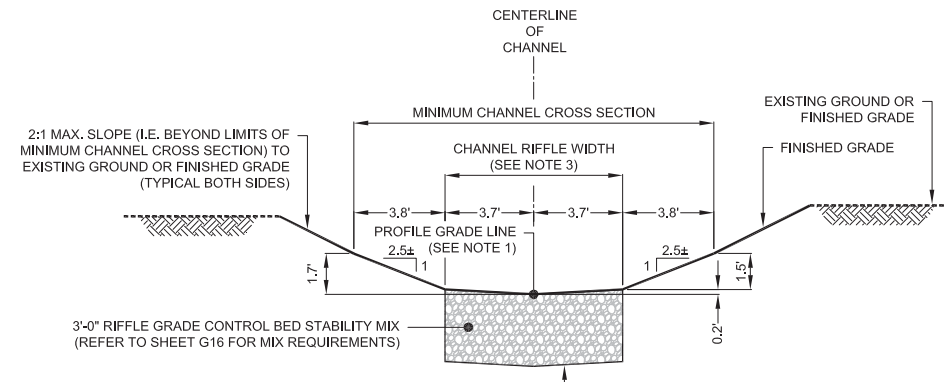
CHANNEL REACH NO. 1
TYPICAL POOL SECTION
NOT TO SCALE



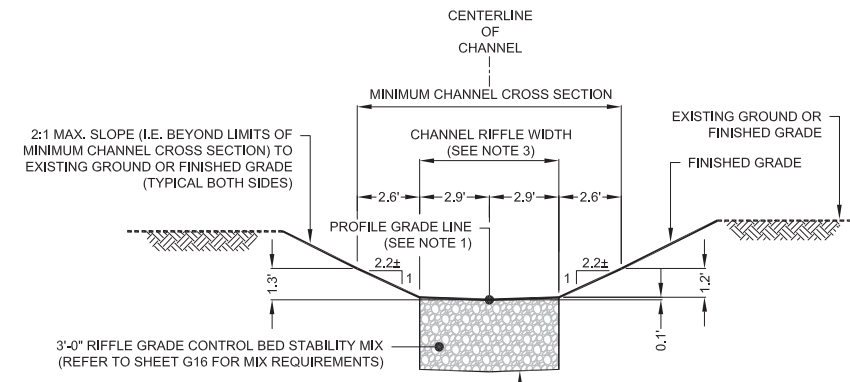
CHANNEL REACH NO. 2
TYPICAL POOL SECTION
NOT TO SCALE



CHANNEL REACH NO. 3
TYPICAL POOL SECTION
NOT TO SCALE



CHANNEL REACH NO. 1
TYPICAL RIFFLE SECTION
NOT TO SCALE

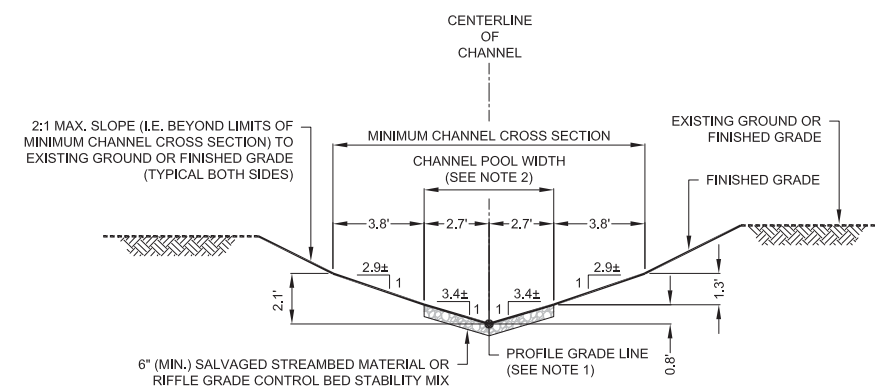


CHANNEL REACH NO. 2
TYPICAL RIFFLE SECTION
NOT TO SCALE

REFER TO "TYPICAL STEP POOL" DETAIL ON SHEET G17 FOR CHANNEL REACH NO. 3 STEP SECTION DIMENSIONS

CHANNEL REACH NO. 3
TYPICAL STEP SECTION
NOT TO SCALE

CHANNEL REACH NO. 4 - POND OUTLET CHANNEL



POND OUTLET CHANNEL
TYPICAL POOL SECTION
NOT TO SCALE

REFER TO "TYPICAL STEP POOL" DETAIL ON SHEET G17 FOR POND OUTLET CHANNEL STEP SECTION DIMENSIONS

POND OUTLET CHANNEL
TYPICAL STEP SECTION
NOT TO SCALE

- SHEET NOTES:
- REFER TO SHEETS G14 AND G15 FOR CHANNEL CENTERLINE PROFILES.
 - CHANNEL POOL WIDTH SHALL RECEIVE SALVAGED STREAMBED MATERIAL OR RIFFLE GRADE CONTROL BED STABILITY MIX. REFER TO STEP POOL DETAIL ON SHEET G17.
 - CHANNEL RIFFLE WIDTH SHALL RECEIVE RIFFLE GRADE CONTROL MIX WITH STREAMBED MATERIAL WASHED IN. REFER TO RIFFLE GRADE CONTROL DETAIL ON SHEET G16.

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JAO	RWS	XXX

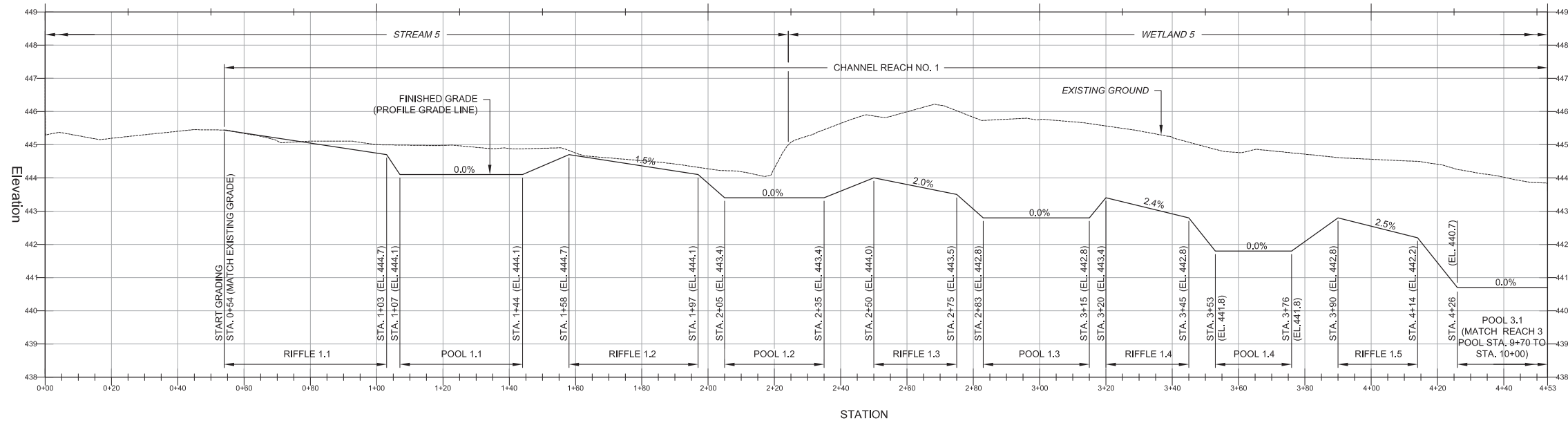


EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
DECOMMISSIONING OF
HERSHEY'S MILL DAM

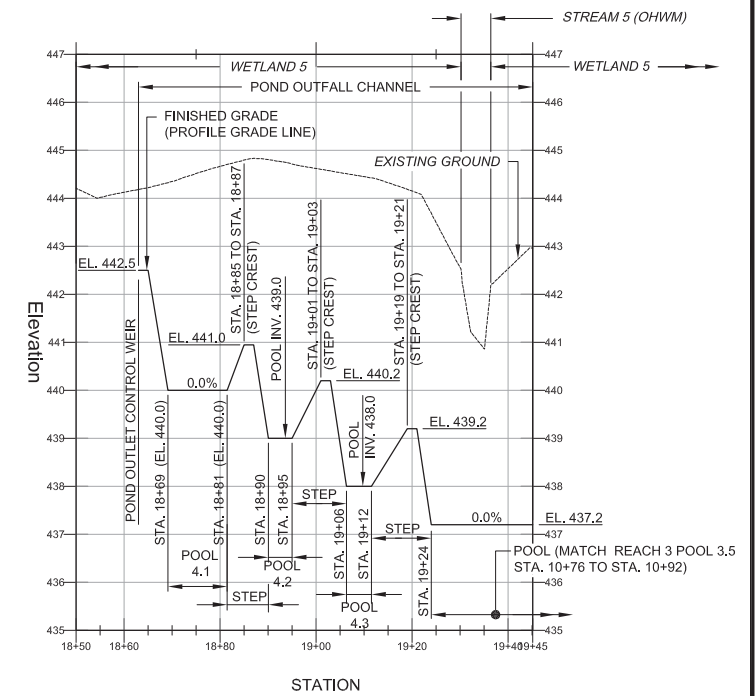
TYPICAL STREAM CROSS SECTIONS

JOB NO.	SHEET NO.
60466	G13
DATE	DRAWING NO.
SEPT. 2019	14 OF 34

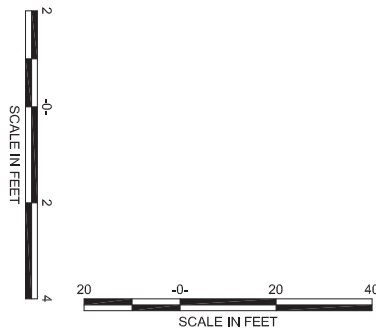
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Plot Date: 9/2/2019 2:24 PM. Plotted By: Miller, Brian S.



CHANNEL PROFILE - REACH NO. 1 (STREAM 5)
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL



CHANNEL PROFILE - REACH NO. 4 (STREAM 5)
(POND OUTLET)
SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL



- SHEET NOTES:
- REFER TO TYPICAL RIFFLE AND STEP POOL DETAILS ON SHEET G16 AND G17, RESPECTIVELY.
 - ELEVATIONS SHOWN ON PROFILES REPRESENT TOP OF FINISHED SURFACE.
 - PGL = PROFILE GRADE LINE.

NO.	DESCRIPTION	DATE	BY
1	RESPOND TO USACE COMMENTS	09/19	ECN
REVISIONS			

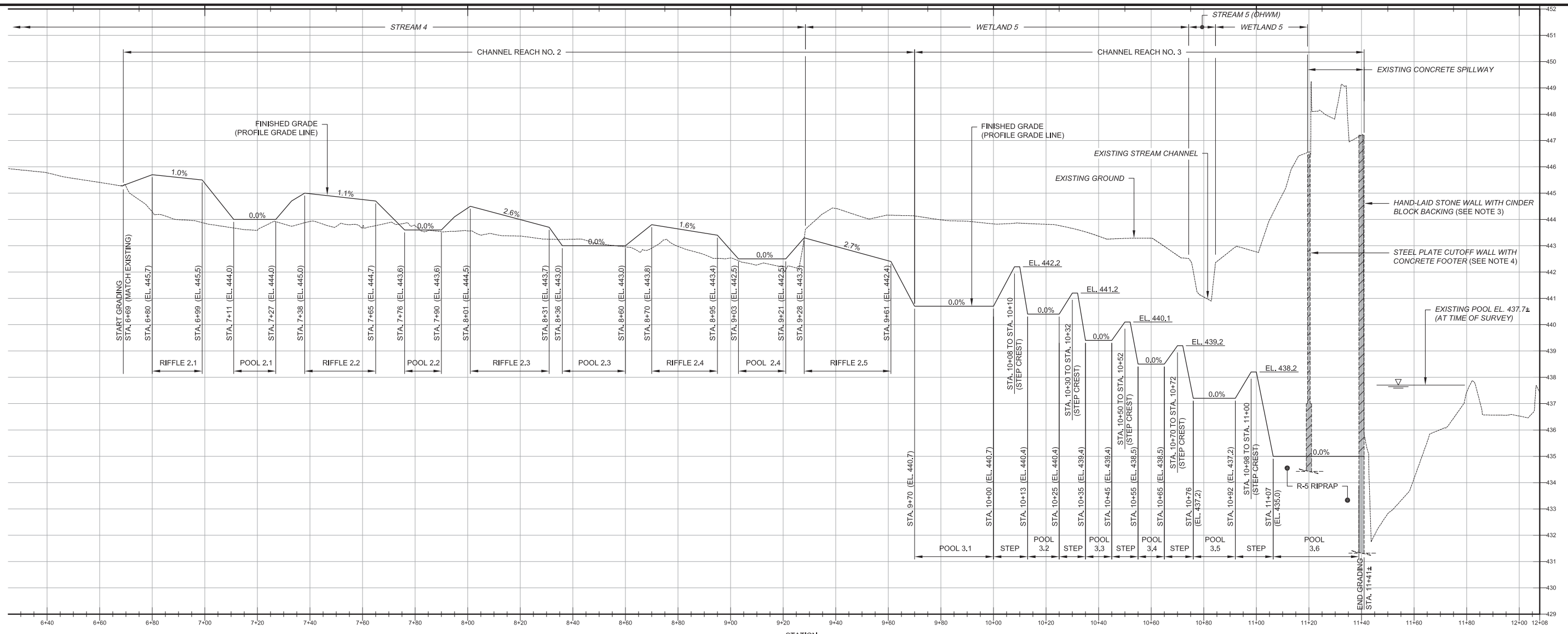
DESIGNED	CADD	SCALE
MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX



EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
DECOMMISSIONING OF
HERSHEY'S MILL DAM

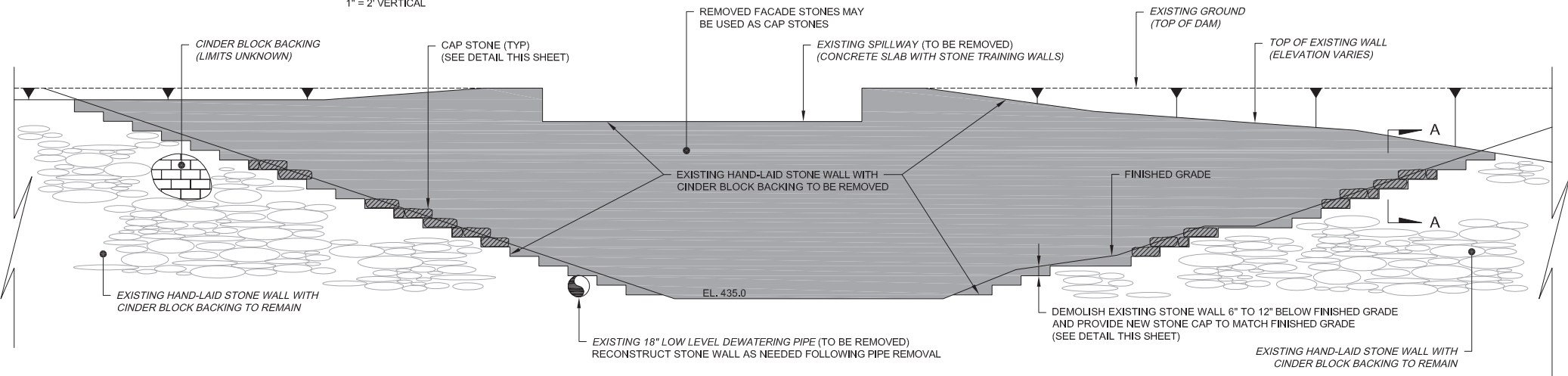
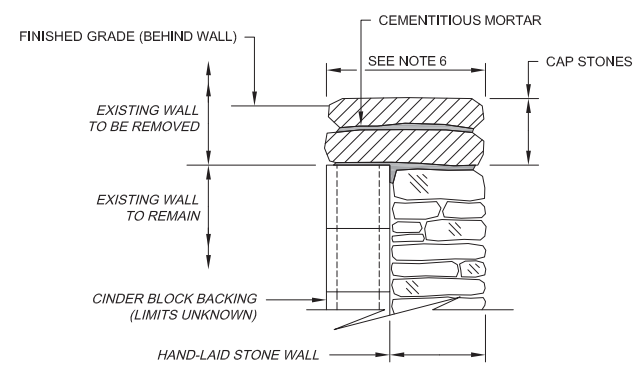
STREAM PROFILES
(1 OF 2)

JOB NO.	SHEET NO.
60466	G14
DATE	DRAWING NO.
SEPT. 2019	15 OF 34



CHANNEL PROFILE - REACH NO. 2 (STREAM 4) AND REACH NO. 3 (STREAM 5)

SCALE: 1" = 20' HORIZONTAL
1" = 2' VERTICAL



- SHEET NOTES:**
- REFER TO TYPICAL RIFFLE AND STEP POOL DETAILS ON SHEET G16 AND G17, RESPECTIVELY.
 - ELEVATIONS SHOWN ON PROFILES REPRESENT TOP OF FINISHED SURFACE.
 - REMOVE HAND-LAID STONE WALL AND CINDER BLOCK BACKING AT DOWNSTREAM FACE OF SPILLWAY AS NEEDED TO MATCH BREACH OPENING (SEE DETAIL THIS SHEET). THOSE PORTIONS OF THE WALL LOCATED BELOW EL. 435.0 MAY REMAIN IN PLACE.
 - THE STEEL PLATE CUTOFF WALL AND ASSOCIATED CONCRETE FOOTER LOCATED AT THE UPSTREAM FACE OF THE CONCRETE SPILLWAY SHALL BE REMOVED IN ITS ENTIRETY.
 - PGL = PROFILE GRADE LINE.
 - SALVAGED STONE FROM WALL DEMOLITION MAY BE USED AS CAP STONE PROVIDED THAT STONE HAS ADEQUATE WIDTH TO COVER EXISTING CINDER BLOCK AND FACING STONE.
 - SALVAGED STONE FROM WALL DEMOLITION MAY BE USED IN RIFFLE GRADE CONTROL BED STABILITY MIX PROVIDED THE STONE IS PROCESSED TO MEET THE SPECIFIED SIZE OF EITHER AASHTO NO. 3 OR AASHTO NO. 8

NO.	DESCRIPTION	DATE	BY
1	RESPOND TO USACE COMMENTS	09/19	ECN
REVISIONS			

DESIGNED	CADD	SCALE
MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX

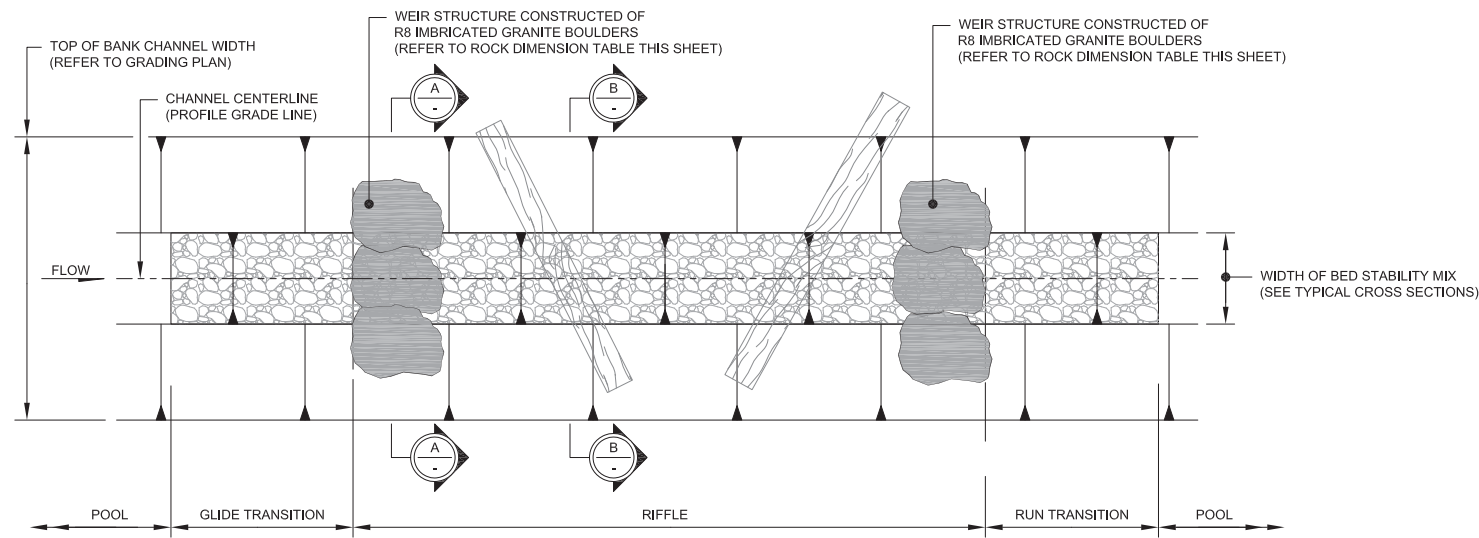


EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
DECOMMISSIONING OF
HERSHEY'S MILL DAM

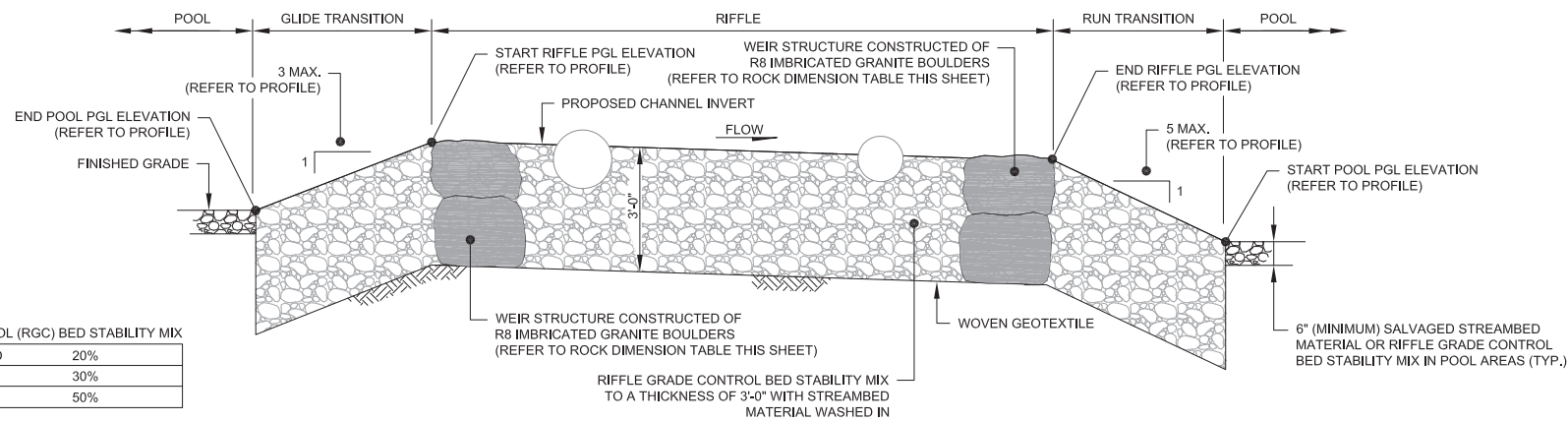
STREAM PROFILES
(2 OF 2)

JOB NO.	SHEET NO.
60466	G15
DATE	DRAWING NO.
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TYPICAL RIFFLE - PLAN VIEW



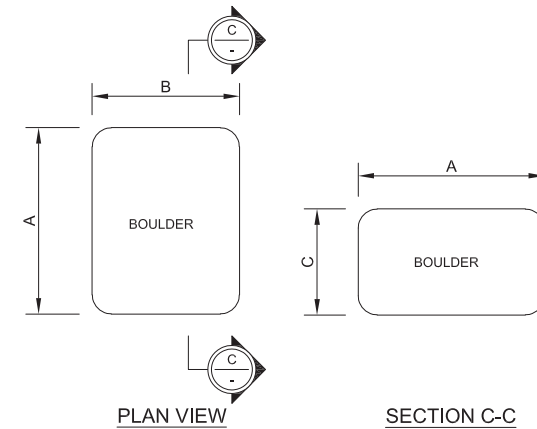
TYPICAL RIFFLE - CENTERLINE PROFILE

RIFFLE GRADE CONTROL (RGC) BED STABILITY MIX

% MIX	WASHED SAND	20%
	AASHTO #8	30%
	AASHTO #3	50%

STREAMBED MATERIAL (SBM) - CONTINGENT

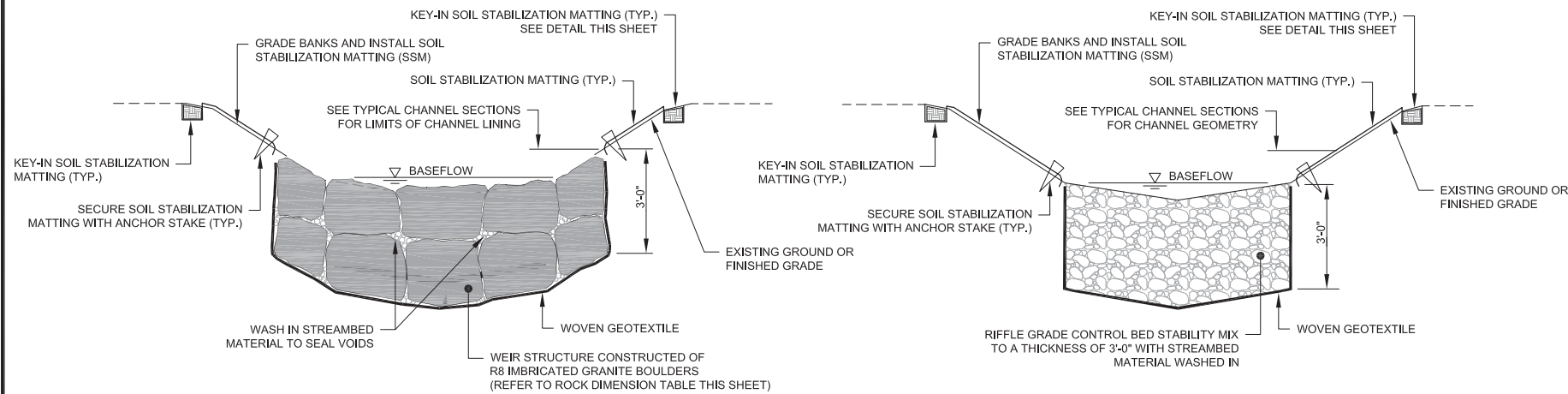
% MIX	SAND	20%
	GRAVEL	80%



ROCK DIMENSION TABLE

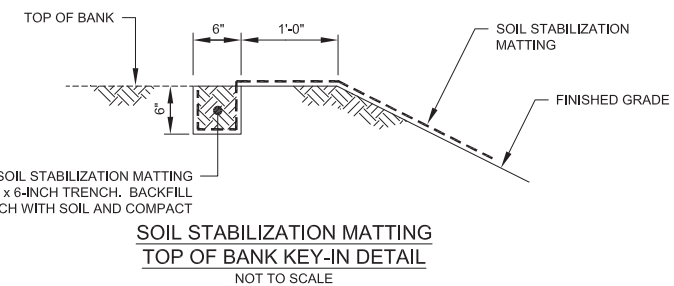
ROCK	A - AXIS	B - AXIS	C - AXIS
R8 IMBRICATED GRANITE BOULDERS	3' (MIN.)	2' (MIN.)	1.5' (MIN.)
	4' (MAX.)	3' (MAX.)	3' (MAX.)

TYPICAL BOULDER ROCK DETAIL
NOT TO SCALE



TYPICAL RIFFLE WEIR STRUCTURE
SECTION A-A

TYPICAL RIFFLE
SECTION B-B



SOIL STABILIZATION MATTING
TOP OF BANK KEY-IN DETAIL
NOT TO SCALE

RIFFLE GRADE CONTROL
NOT TO SCALE

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REVISIONS			

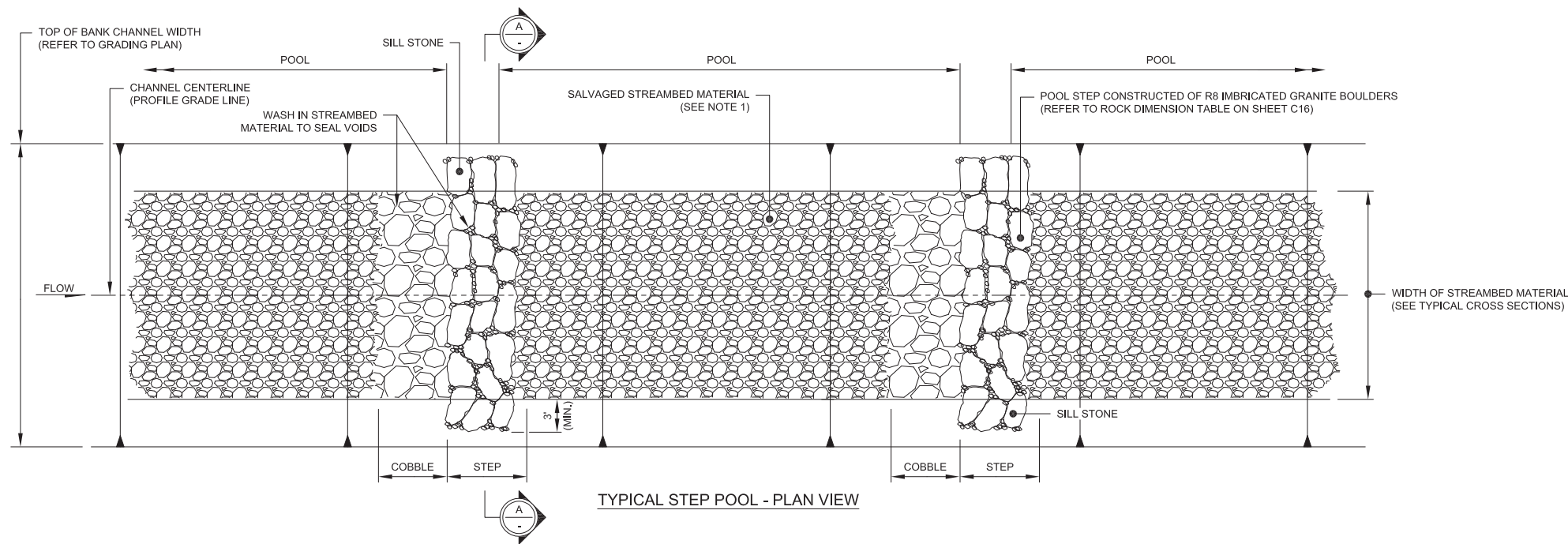
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DRAWN	CHECKED	APPROVED
JAO	RWS	XXX



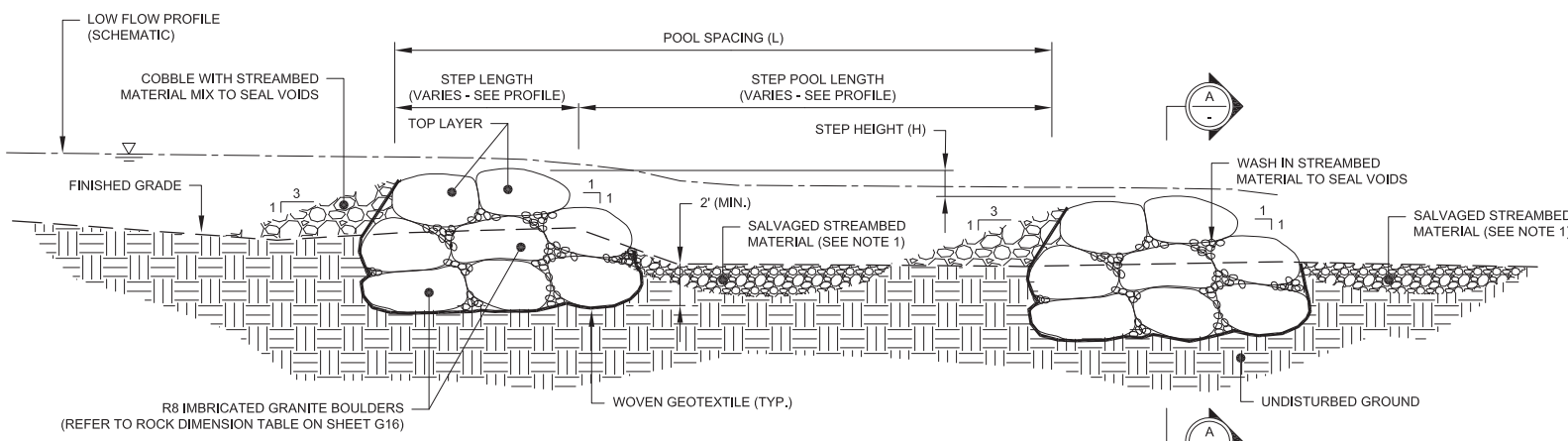
EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
DECOMMISSIONING OF
HERSEY'S MILL DAM

STREAM DETAILS
(1 OF 2)

JOB NO.	SHEET NO.
60466	G16
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TYPICAL STEP POOL - PLAN VIEW

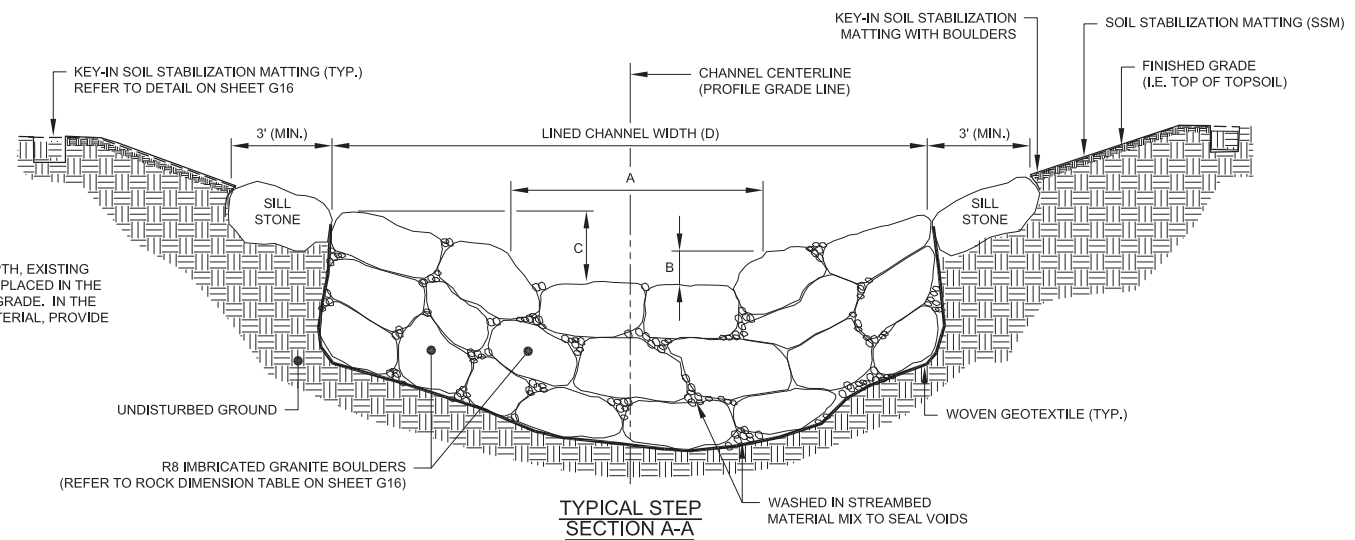


TYPICAL STEP POOL - CENTERLINE PROFILE

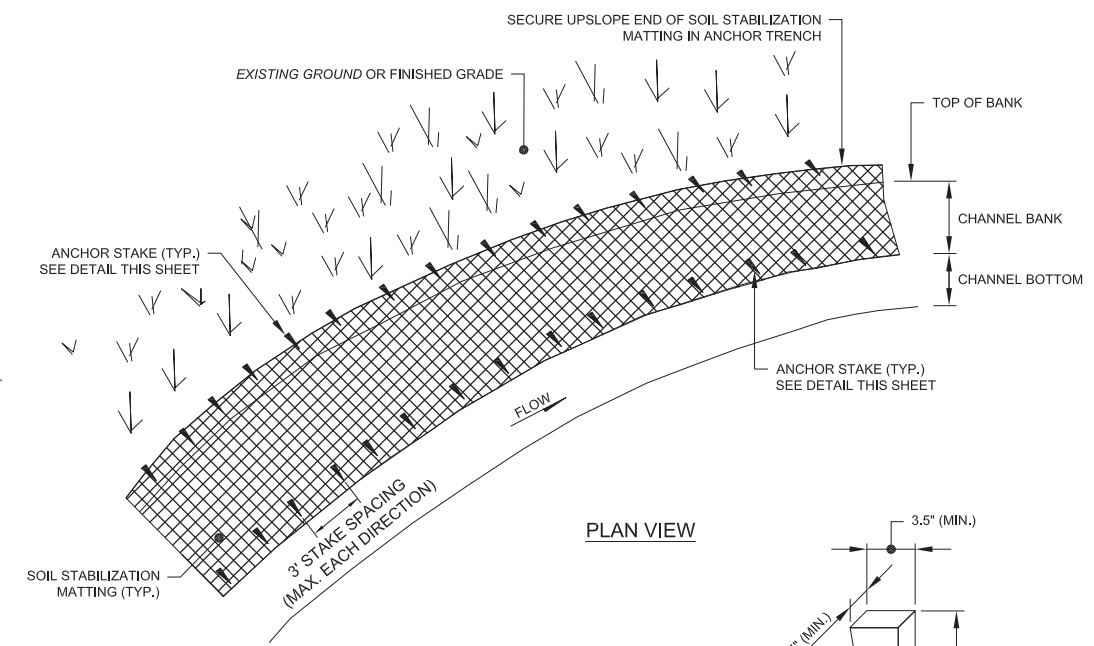
STEP DIMENSION TABLE		
DIMENSION	CHANNEL REACH	
	POND OUTLET	REACH NO. 3
A	5'-0"	8'-0"
B	0'-6"	1'-0"
C	1'-4"	2'-2"
D	22'	22'

TABLE NOTES:
 A = LOW FLOW CHANNEL WIDTH
 B = LOW FLOW CHANNEL DEPTH
 C = CHANNEL LINING DEPTH
 D = MINIMUM LINED CHANNEL WIDTH

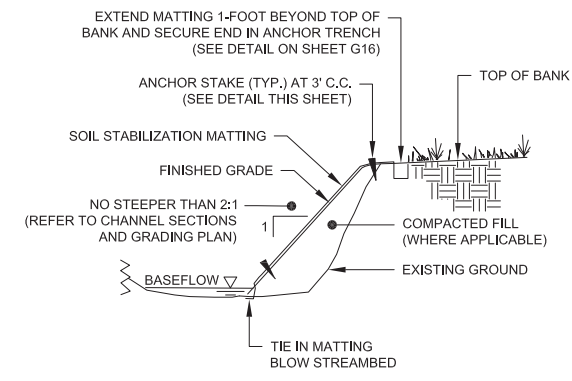
STEP POOL NOTES:
 1. IF EXCAVATION IS REQUIRED TO PROVIDE POOL DEPTH, EXISTING STREAM BED MATERIAL SHALL BE STOCKPILED AND PLACED IN THE GRADED POOL IN A 6-INCH LAYER TO MATCH FINAL GRADE. IN THE ABSENCE OF AVAILABLE EXISTING STREAM BED MATERIAL, PROVIDE RIFFLE GRADE CONTROL BED STABILITY MIX.
 2. DURING CONSTRUCTION, CONFER WITH ENGINEER.



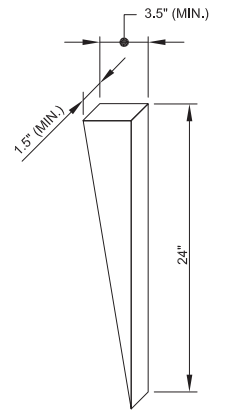
TYPICAL STEP POOL NOT TO SCALE



PLAN VIEW



TYPICAL SECTION



ANCHOR STAKE DETAIL NOT TO SCALE

ANCHOR STAKE NOTES:
 1. ANCHOR STAKES SHALL BE TAPERED TWO FOOT LONG WOODEN STAKES CONSISTING OF STANDARD 2" X 4" WOODEN BOARDS CUT DIAGONALLY.

SOIL STABILIZATION MATTING - CHANNEL APPLICATIONS NOT TO SCALE

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REVISIONS			

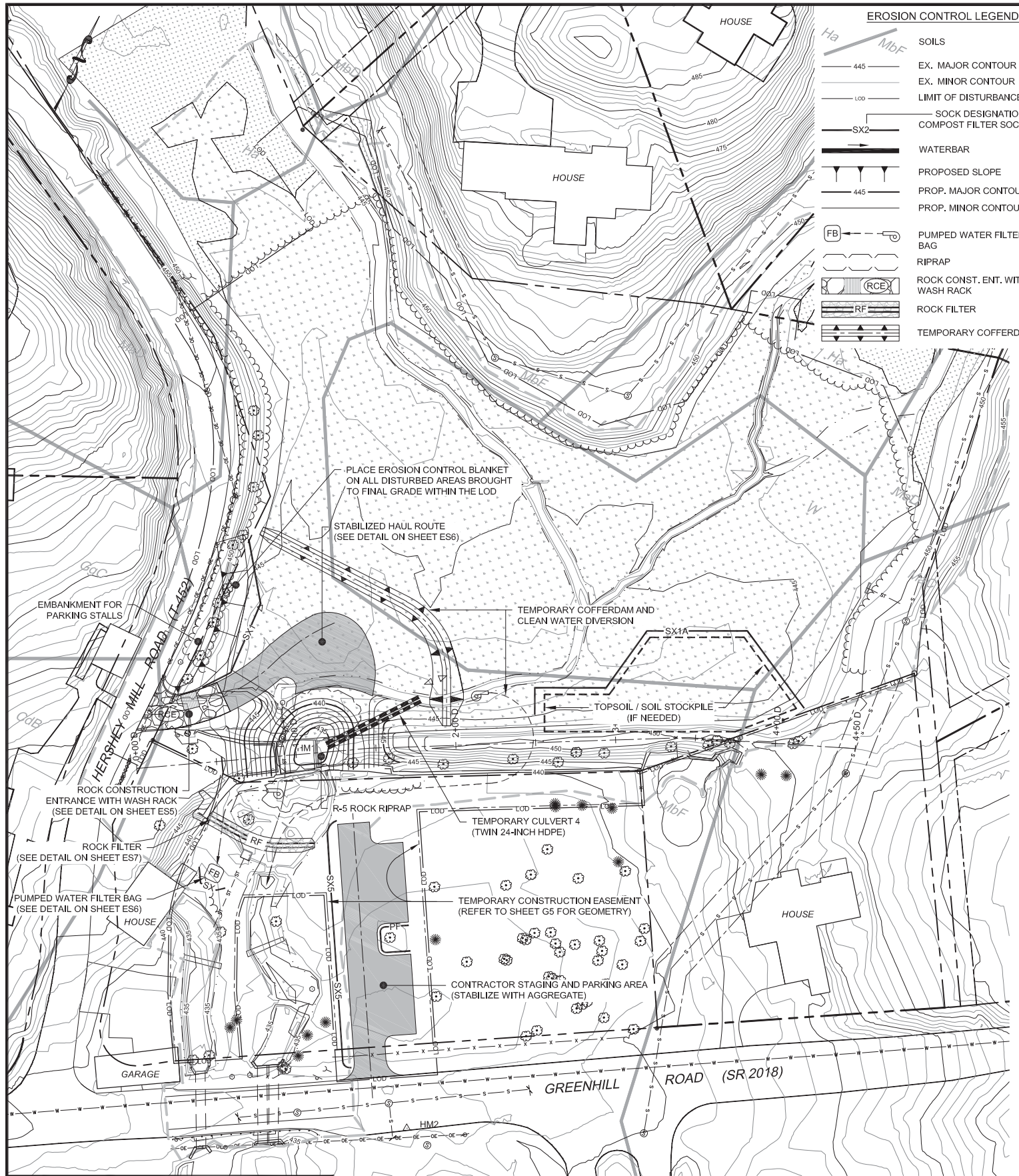
DESIGNED	CADD	SCALE
MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX



EAST GOSHEN TOWNSHIP
 CHESTER COUNTY, PENNSYLVANIA
 DECOMMISSIONING OF
 HERSHEY'S MILL DAM

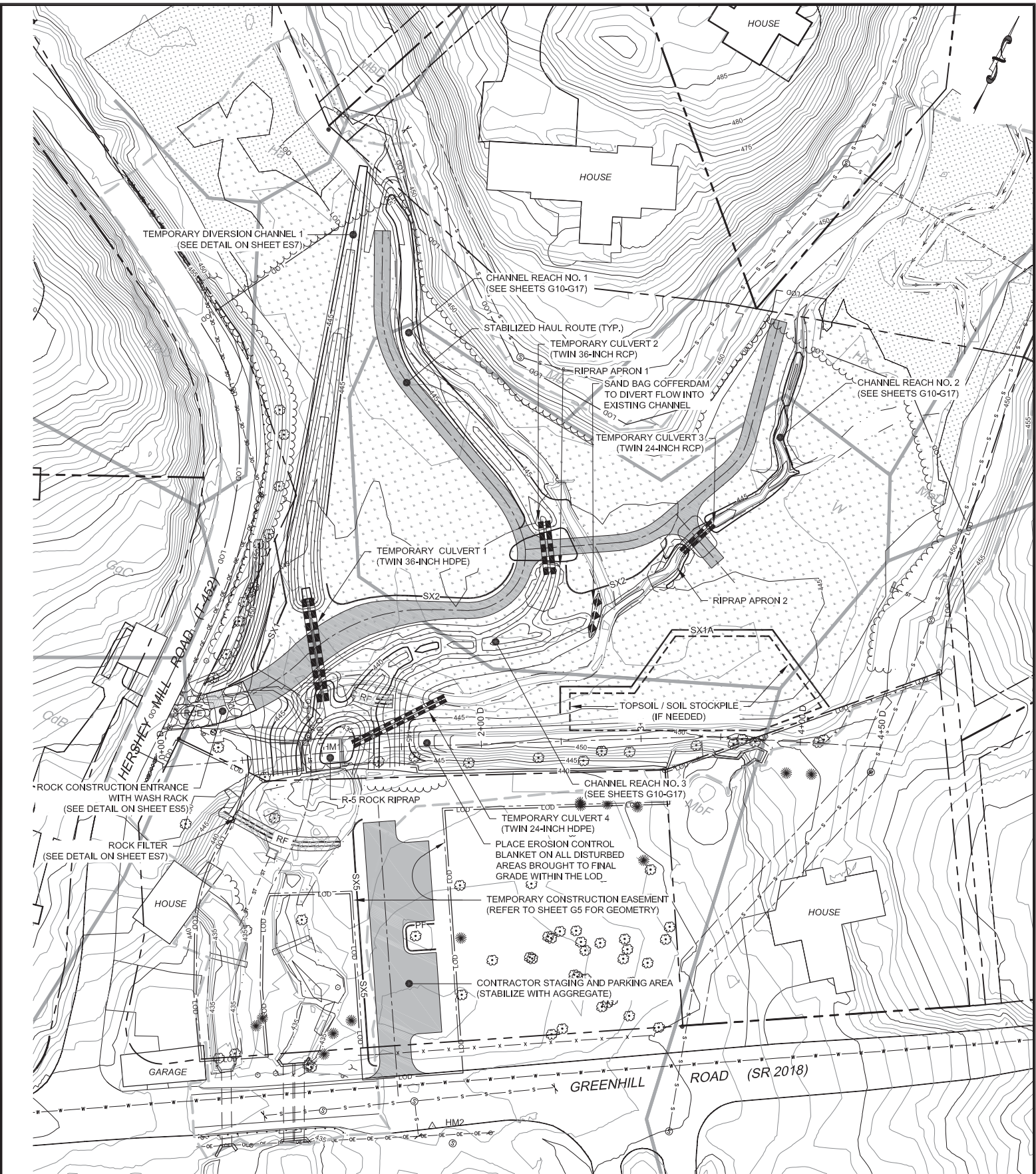
STREAM DETAILS
 (2 OF 2)

JOB NO.	SHEET NO.
60466	G17
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SEPT. 2019	18 OF 34



**EROSION AND SEDIMENT CONTROL PLAN
STAGE 1 PLAN VIEW**

SCALE: 1" = 40'



**EROSION AND SEDIMENT CONTROL PLAN
STAGE 2 PLAN VIEW**

SCALE: 1" = 40'



- NOTES:**
1. THE STAGED GRADING PLANS ARE INTENDED TO SHOW THE GENERAL SEQUENCE OF WORK AND NOT ALL PROPOSED IMPROVEMENTS ARE SHOWN. REFER TO THE CONTRACT DOCUMENTS FOR ALL WORK TO BE PERFORMED.
 2. FOR ANY DISCREPANCIES BETWEEN THE PERMANENT GRADING SHOWN ON THE E&S PLANS AND THAT SHOWN ON SHEET G10, THE GRADING SHOWN ON SHEET G10 SHALL GOVERN.

NO.	DESCRIPTION	DATE	BY
1	RESPOND TO USACE COMMENTS	09/19	ECN
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JAO	RWS	XXX

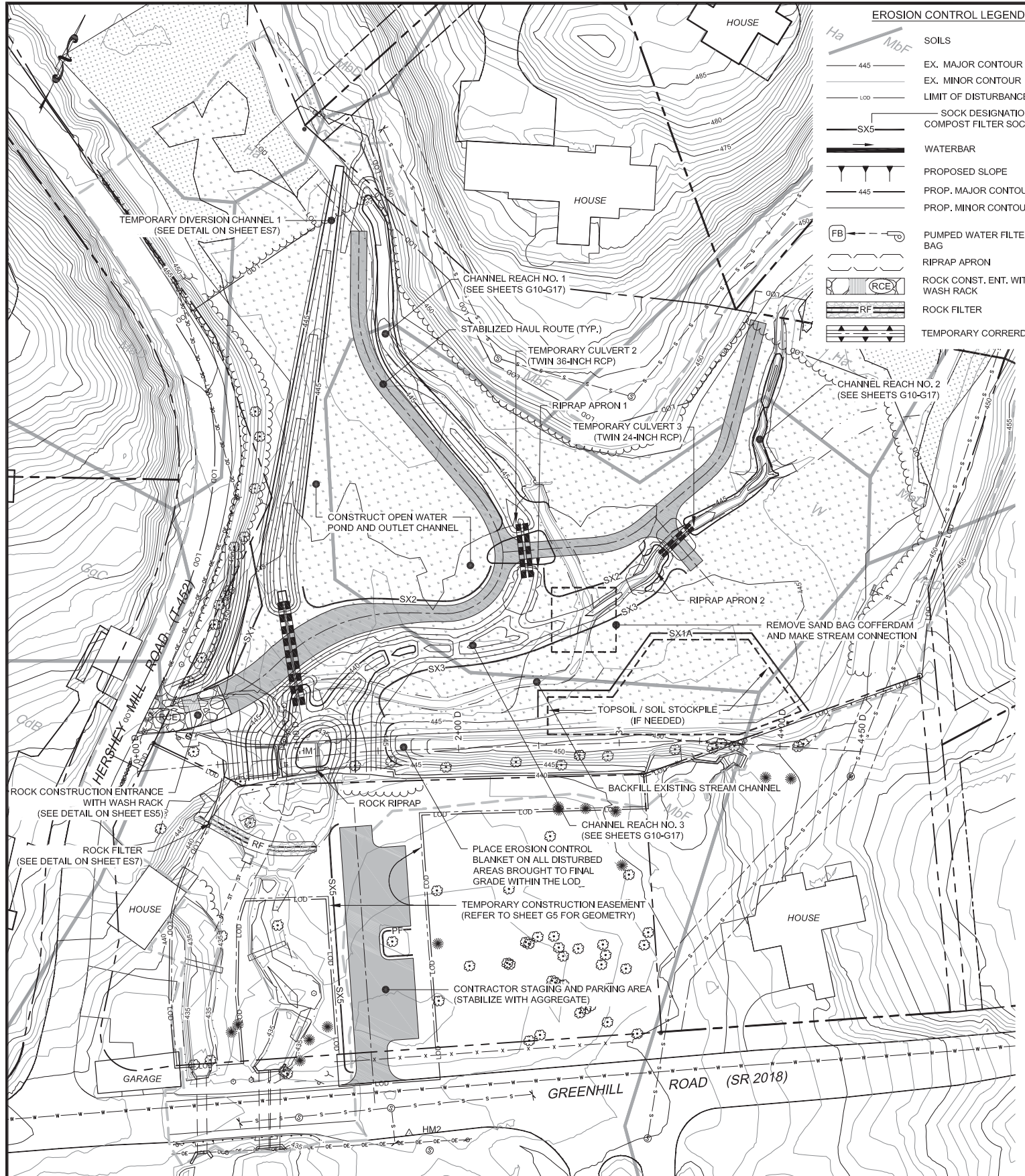


EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

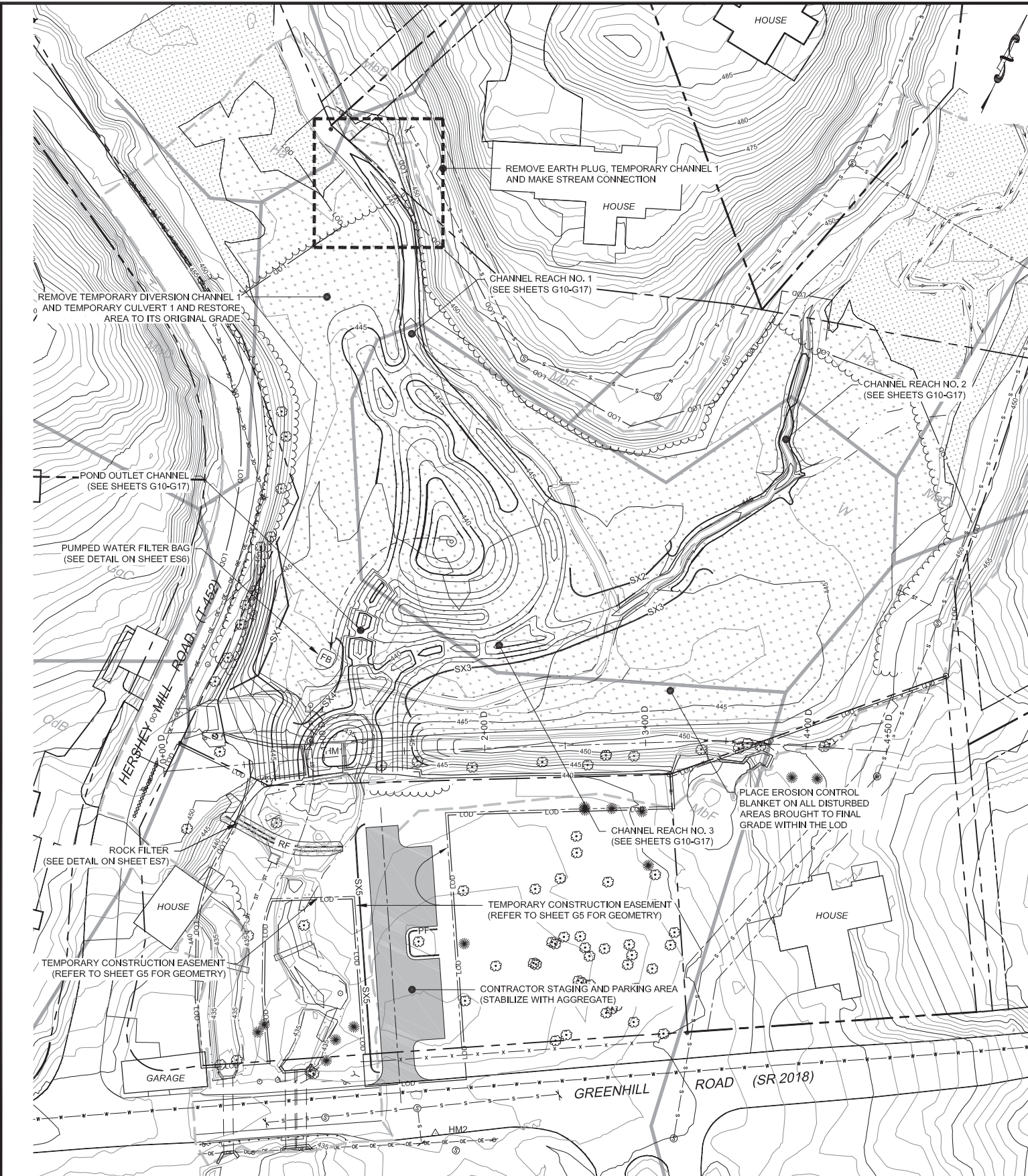
**EROSION AND SEDIMENT CONTROL
SITE PLAN
SHEET 1 OF 2**

JOB NO.	SHEET NO.
60466	ES1
DATE	DRAWING NO.
SEPT. 2019	19 OF 34

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Plot Date: 9/22/2019 2:25 PM, Plotted By: Miller, Brian S.



**EROSION AND SEDIMENT CONTROL PLAN
STAGE 3 PLAN VIEW**
SCALE: 1" = 40'



**EROSION AND SEDIMENT CONTROL PLAN
STAGE 4 PLAN VIEW**
SCALE: 1" = 40'



- NOTES:**
1. THE STAGED GRADING PLANS ARE INTENDED TO SHOW THE GENERAL SEQUENCE OF WORK AND NOT ALL PROPOSED IMPROVEMENTS ARE SHOWN. REFER TO THE CONTRACT DOCUMENTS FOR ALL WORK TO BE PERFORMED.
 2. FOR ANY DISCREPANCIES BETWEEN THE PERMANENT GRADING SHOWN ON THE E&S PLANS AND THAT SHOWN ON SHEET G10, THE GRADING SHOWN ON SHEET G10 SHALL GOVERN.

NO.	DESCRIPTION	DATE	BY
1	RESPOND TO USACE COMMENTS	09/19	ECN
REVISIONS			

DESIGNED	CADD	SCALE
MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX



EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

**EROSION AND SEDIMENT CONTROL
SITE PLAN
SHEET 2 OF 2**

JOB NO.	SHEET NO.
60466	ES2
DATE	DRAWING NO.
SEPT. 2019	20 OF 34

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Plot Date: 9/20/19 2:25 PM. Plotted By: Miller, Brian S.

EROSION AND SEDIMENT POLLUTION CONTROL PLAN NARRATIVE

STAGING OF EARTHMOVING ACTIVITIES

THE INTENT OF THIS STAGING NARRATIVE IS TO DESCRIBE THE CRITICAL EARTHMOVING/CONSTRUCTION ACTIVITIES WHICH MUST OCCUR IN ORDER TO PROVIDE A COMPREHENSIVE PLAN FOR THE CONTROL OF SEDIMENT-LADEN RUNOFF FROM THE PROJECT AREA. THIS STAGING NARRATIVE IS NOT INTENDED TO DESCRIBE ALL THE WORK ACTIVITIES ASSOCIATED WITH THE PROPOSED CONSTRUCTION PROJECT.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. DEVIATIONS FROM THIS SEQUENCE MUST BE APPROVED IN WRITING FROM THE COUNTY CONSERVATION DISTRICT PRIOR TO IMPLEMENTATION. UNLESS STATED OTHERWISE, EACH CONSTRUCTION STAGE SHALL BE COMPLETED AND ALL DISTURBED AREAS STABILIZED BEFORE ANY FOLLOWING STAGE IS INITIATED. DEMOLITION, CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE. EARTH DISTURBANCE MAY NOT COMMENCE IN ANY STAGE OF THE PROJECT UNTIL ALL BMPs SPECIFIED FOR THAT STAGE ARE INSTALLED, STABILIZED AND FUNCTIONAL.

PRE-CONSTRUCTION ACTIVITIES

1. AT LEAST SEVEN (7) DAYS BEFORE STARTING EARTHMOVING AND DEMOLITION ACTIVITIES (INCLUDING CLEARING AND GRUBBING), THE CONTRACTOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE OWNER, THE COUNTY CONSERVATION DISTRICT, ALL APPROPRIATE MUNICIPAL OFFICIALS AND THE EROSION CONTROL PLAN PREPARER TO AN ONSITE PRE-CONSTRUCTION MEETING.
2. AT LEAST THREE (3) DAYS PRIOR TO STARTING EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, ALL CONTRACTORS INVOLVED IN SAID ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM, INC. AT 1-800-242-1776 FOR BURIED UTILITIES LOCATION. THE CONTRACTOR SHALL COORDINATE HIS WORK ACTIVITIES WITH THE UTILITY COMPANIES AND THE OWNER.
3. DEVELOP A VEHICULAR/PEDESTRIAN SAFETY PLAN TO PROTECT AND PREVENT THE TRAVELING PUBLIC FROM ENTERING THE WORK AREA. SAID PLAN MAY INCLUDE TEMPORARY BARRIERS, FENCING, SIGNAGE, OR OTHER TRAFFIC CONTROL. SAID PLAN SHALL BE APPROVED BY THE TOWNSHIP PRIOR TO THE START OF WORK.
4. SCHEDULE CONSTRUCTION SO AS TO MINIMIZE THE EXTENT AND DURATION OF DISTURBED GROUND SURFACES. TO THE GREATEST EXTENT POSSIBLE, SCHEDULE WORK DURING DRY PERIODS OF THE YEAR. CRITICAL INSTREAM ACTIVITIES SHOULD BE SCHEDULED DURING LOW FLOW PERIODS AND WHEN NO RAIN IS PREDICTED IN THE FORECAST. REFER TO PROJECT GENERAL NOTE 8 ON SHEET G1.
5. CLEARLY MARK AREAS WHICH ARE NOT TO BE DISTURBED WITH FLAGS, SIGNS, FENCING OR OTHER MARKINGS TO CLEARLY DELINEATE THE LIMIT OF DISTURBANCE.
6. INSTALL PROTECTIVE FENCING AT SENSITIVE AREAS AND AROUND ALL TREES AND WETLANDS WHICH ARE TO BE PROTECTED. PROTECTIVE FENCING IS TO BE LOCATED AT THE DRIP LINE OF THE TREE UNLESS OTHERWISE DIRECTED.
7. INSTALL THE CONTRACTOR STAGING AND PARKING AREA OFF OF GREENHILL ROAD IN THE FOLLOWING ORDER, (1) LOCATE TEMPORARY EASEMENT BOUNDARIES AND MARK IN THE FIELD, (2) INSTALL COMPOST FILTER SOCK AND PROTECTIVE FENCE, AND (3) INSTALL THE CONTRACTOR STAGING AND PARKING AREA AND STABILIZE WITH AGGREGATE ALL AREAS WHICH WILL RECEIVE VEHICULAR TRAFFIC AND/OR BE USED TO STORE/STOCKPILE MATERIALS. MINIMIZE THE SIZE OF THE STAGING AREA TO THE GREATEST EXTENT POSSIBLE.

STAGE 1: DAM BREACH (REFER TO SHEET ES1 FOR A PLAN VIEW OF THE STAGE 1 ACTIVITIES)

1. EARTH DISTURBANCE ASSOCIATED WITH THE STAGE 1 ACTIVITIES SHALL BE LIMITED TO ONLY THOSE AREAS ABSOLUTELY NEEDED TO PERFORM THE STAGE 1 WORK ACTIVITIES.
2. INSTALL ROCK CONSTRUCTION ENTRANCE OFF OF HERSHEY MILL ROAD. SHOULD THE CONTRACTOR CHOOSE TO RELOCATE OR ADD ADDITIONAL INGRESS/EGRESS LOCATIONS TO THE PROJECT SITE, THESE LOCATIONS SHALL ALSO BE EQUIPPED WITH ROCK CONSTRUCTION ENTRANCES.
3. INSTALL COMPOST FILTER SOCK AS SHOWN ON THE DRAWINGS AND ESTABLISH TOPSOIL STOCKPILE AREA.
4. ESTABLISH ACCESS ROUTE TO THE WORK (I.E., BREACH) AREA. IMMEDIATELY STABILIZE ACCESS AND HAUL ROADS WITH AGGREGATE (PENNDOT 2A AGGREGATE UNDERLAIN WITH GEOTEXTILE) OR USE TEMPORARY WOOD MATS, TEMPORARY STEEL PLATES OR TEMPORARY FIBERGLASS MATS. MAINTAIN THE HAUL ROUTE IN A STABLE CONDITION THROUGHOUT THE STAGE 1 WORK ACTIVITIES.
5. INSTALL DIVERSION OF WATER MEASURES TO BYPASS UPSTREAM CLEAN RUNOFF AROUND THE STAGE 1 WORK AREAS.
6. DEWATER THE EXISTING SCOUR HOLE IMMEDIATELY DOWNSTREAM OF THE SPILLWAY AND UTILIZE THIS DEPRESSION AS AN EROSION CONTROL FACILITY. SEDIMENT LADEN RUNOFF WHICH COLLECTS IN THIS DEPRESSION SHALL BE PUMPED TO A PUMPED WATER FILTER BAG LINED WITH COMPOST FILTER SOCK.
7. INSTALL ROCK FILTER DOWNSTREAM OF SCOUR HOLE.
8. SCHEDULE BREACH EXCAVATION DURING DRY WEATHER PERIODS AND WHEN NO SIGNIFICANT RAIN IS FORECAST FOR THE UPCOMING WEEK. EXCAVATION ACTIVITIES SHALL PROCEED FROM THE CREST OF THE DAM IN A DOWNWARD DIRECTION AND SHALL BE CONTINUOUS DURING WORKING HOURS UNTIL THE FINAL BREACH GRADES ARE ESTABLISHED AND THE BREACH OPENING IS STABILIZED WITH RIPRAP. ESTABLISHMENT OF THE BREACH OPENING SHALL OCCUR AS QUICKLY AS POSSIBLE AND SHALL BE ACCOMPLISHED WITHIN ONE WEEK.
9. INSTALL TEMPORARY CULVERT 4.
10. BRING THOSE PORTIONS OF THE PROPOSED PARKING AREA LOCATED BEYOND THE LIMITS OF THE ROCK CONSTRUCTION ENTRANCE TO FINISHED GRADE AS FILL IS BEING PLACED AND IMMEDIATELY STABILIZE ALL DISTURBED AREAS CREATED BY THE STAGE 1 ACTIVITIES. AREAS WHERE WORK CEASES SHALL HAVE TEMPORARY OR PERMANENT STABILIZATION APPLIED PER NOTES E1 AND F1 ON SHEET ES3.

STAGE 2: CHANNEL REACH NOS. 1, 2 AND 3 (REFER TO SHEET ES1 FOR A PLAN VIEW OF THE STAGE 2 ACTIVITIES)

1. STAGE 2 ACTIVITIES MAY NOT OCCUR UNTIL THE PRE-CONSTRUCTION AND STAGE 1 ACTIVITIES ARE COMPLETE AND ALL EROSION CONTROL FACILITIES ARE INSTALLED, STABILIZED AND FUNCTIONAL.
2. INSTALL COMPOST FILTER SOCK.
3. INSTALL TEMPORARY DIVERSION CHANNEL 1 AND TEMPORARY CULVERT 1 TO DIVERT UPSTREAM CLEAN RUNOFF FROM THE WESTERN TRIBUTARY THROUGH THE WORK AREA. INSTALL CHANNEL FROM DOWNSTREAM TO UPSTREAM. STABILIZING THE CHANNEL AS IT IS CONSTRUCTED. UTILIZE A DAILY PUMP-AROUND TO MAKE THE UPSTREAM CONNECTION TO THE EXISTING STREAM CHANNEL.
4. INSTALL TEMPORARY HAUL ROUTES, ASSOCIATED CULVERT CROSSINGS, AND RIPRAP APRONS THROUGHOUT THE RESERVOIR TO FACILITATE CONSTRUCTION OF THE STREAM CHANNELS.
5. CONSTRUCT CHANNEL REACH NO. 2 FROM THE UPSTREAM LIMITS OF WORK TO STATION 9+20 USING DAILY PUMP-AROUND DIVERSION MEASURES. AT STATION 9+20, DIVERT STREAM FLOWS INTO THE EXISTING CHANNEL BY USE OF A SAND BAG COFFERDAM.
6. WITH TEMPORARY STREAM DIVERSION MEASURES IN PLACE, CONSTRUCT CHANNEL REACH NO. 3 AND INSTALL ROCK FILTER AT DOWNSTREAM END OF CHANNEL REACH NO. 3. CONSTRUCT CHANNEL REACH NO. 1 AND THE REMAINDER OF CHANNEL REACH NO. 2. IMMEDIATELY STABILIZE ALL DISTURBED AREAS CREATED BY THE STAGE 2 WORK ACTIVITIES.
7. AREAS WHERE WORK CEASES SHALL HAVE TEMPORARY OR PERMANENT STABILIZATION APPLIED PER NOTES E1 AND F1 ON SHEET ES3.

STAGE 3: ACTIVATION OF CHANNEL REACH NO. 3 AND OPEN WATER POND CONSTRUCTION (REFER TO SHEET ES2 FOR A PLAN VIEW OF THE STAGE 3 ACTIVITIES)

1. STAGE 3 ACTIVITIES MAY NOT OCCUR UNTIL THE STAGE 2 ACTIVITIES ARE COMPLETE. ALL EROSION CONTROL FACILITIES ARE INSTALLED, STABILIZED AND FUNCTIONAL AND THOSE STREAM CHANNELS CONSTRUCTED DURING STAGE 2 ARE STABILIZED.
2. REMOVE THE TEMPORARY SAN BAG COFFERDAM AT CHANNEL REACH NO. 2 STATION 9+20 AND COMPLETE CONSTRUCTION OF CHANNEL REACH NO. 2 AT THIS LOCATION. UTILIZE DAILY PUMP-AROUND DIVERSION MEASURES TO COMPLETE THIS TASK. BACKFILL THE EXISTING STREAM CHANNEL DOWNSTREAM OF CHANNEL REACH NO. 2 STATION 9+20 AND INSTALL COMPOST FILTER SOCK ALONG THE SOUTHERN EDGE OF CHANNEL REACH NO. 3.
3. BEGIN CONSTRUCTION OF THE OPEN WATER POND. WATER WHICH COLLECTS WITHIN THE EXCAVATION SHALL BE PUMPED TO A PUMPED WATER FILTER BAG. DO NOT MAKE UPSTREAM CONNECTION TO CHANNEL REACH NO. 1 UNTIL STAGE 4.
4. IMMEDIATELY STABILIZE ALL DISTURBED AREAS CREATED BY THE STAGE 3 ACTIVITIES.

STAGE 4: OPEN POND, POND OUTLET CHANNEL AND REMAINING GRADING ACTIVITIES (REFER TO SHEET ES2 FOR A PLAN VIEW OF THE STAGE 4 ACTIVITIES)

1. STAGE 4 ACTIVITIES MAY NOT OCCUR UNTIL THE STAGE 3 ACTIVITIES ARE COMPLETE.
2. COMPLETE GRADING ACTIVITIES FOR THE OPEN POND FEATURE. WATER WHICH COLLECTS WITHIN THE EXCAVATION SHALL BE PUMPED TO A PUMPED WATER FILTER BAG. DO NOT MAKE UPSTREAM CONNECTION TO CHANNEL REACH NO. 1 UNTIL THE POND OUTLET CHANNEL IS INSTALLED, STABILIZED AND FUNCTIONAL.
3. COMPLETE CONSTRUCTION OF THE UPPER END OF CHANNEL REACH NO. 1 AND DIVERT UPSTREAM FLOWS INTO CHANNEL REACH NO. 1. UTILIZE DAILY PUMP-AROUND DIVERSION MEASURES TO COMPLETE THIS TASK.
4. REMOVE TEMPORARY CHANNEL NO. 1 AND TEMPORARY CULVERT 1. RESTORE AREAS TO THEIR ORIGINAL GRADES AND IMMEDIATELY APPLY PERMANENT STABILIZATION TO ALL DISTURBED AREAS.
5. ONCE ALL RESERVOIR WORK IS COMPLETE, REMOVE THE TEMPORARY HAUL ROADS AND INSTALL THE POND OUTLET CHANNEL. BRING ALL REMAINING AREAS TO FINAL GRADE AND IMMEDIATELY APPLY PERMANENT STABILIZATION.
6. INSTALL COMPOST FILTER SOCK AS SHOWN ON THE DRAWINGS TO CONTROL RUNOFF FROM THESE AREAS.
7. UPON PERMANENT STABILIZATION OF THE OPEN WATER POND AND THE POND OUTLET CHANNEL, THE STOP LOGS MAY BE REMOVED FROM THE POND INLET WEIR TO ACTIVATE THE OPEN WATER POND.

STAGE 5: CLEANUP ACTIVITIES

3. STAGE 5 ACTIVITIES MAY NOT OCCUR UNTIL ALL PREVIOUS STAGE ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
4. REMOVE ALL SEDIMENT DEPOSITS COLLECTED BEHIND THE CONTROL FILTERING DEVICES (I.E., COMPOST FILTER SOCK, PUMP WATER FILTER BAGS, ROCK FILTERS, ETC.). USE THIS MATERIAL FOR ONSITE GRADING AND STABILIZE WITH SEED AND AN EROSION CONTROL BLANKET OR HAUL THIS MATERIAL OFFSITE TO A SPOIL AREA WITH AN APPROVED EROSION AND SEDIMENT POLLUTION CONTROL PLAN. IMMEDIATELY PROVIDE PERMANENT STABILIZATION TO ALL DISTURBED AREAS CREATED BY THIS ACTIVITY.
5. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE CONTRACTOR SHALL CONTACT THE COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL OF THE TEMPORARY EROSION CONTROL DEVICES.
6. UPON PERMANENT STABILIZATION OF ALL CONTRIBUTING UPSTREAM AREAS (AS DETERMINED BY THE CONSERVATION DISTRICT), REMOVE ALL TEMPORARY EROSION CONTROL FACILITIES AND REMOVE ALL TEMPORARY FENCING AND OTHER TRAFFIC/PEDESTRIAN CONTROL DEVICES. IMMEDIATELY STABILIZE ALL DISTURBED AREAS CREATED BY THIS ACTIVITY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVALS ARE TO BE DONE DURING THE GERMINATING SEASON.
7. ONCE ALL CONSTRUCTION TRAFFIC ENTERING AND LEAVING THE SITE HAS CEASED, REMOVE ALL REMAINING STAGING/STOCKPILE AREAS AND ROCK CONSTRUCTION ENTRANCE(S) AND IMMEDIATELY APPLY PERMANENT STABILIZATION TO ALL DISTURBED AREAS CREATED BY THIS ACTIVITY.
8. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE CONTRACTOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.

RESOLUTIONS FOR SOIL LIMITATIONS

HIGH WATER TABLE:	CONTRACTOR SHALL DEWATER EXCAVATIONS AS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE SUFFICIENT NUMBER OF PUMPS TO KEEP EXCAVATIONS DRY. WATER WHICH COLLECTS WITHIN THE EXCAVATION(S) SHALL BE REMOVED BY PUMPING TO A SEDIMENT FILTERING DEVICE SUCH AS A PUMPED WATER FILTER BAG OR OTHER APPROVED SEDIMENT FILTERING DEVICE.
SHALLOW BEDROCK:	CONTRACTOR SHALL RIP BEDROCK AS NEEDED TO BRING AREAS TO FINAL GRADE. ALL AREAS TO HAVE PERMANENT VEGETATIVE STABILIZATION SHALL BE OVER-EXCAVATED TO ACCOUNT FOR TOPSOIL PLACEMENT. BLASTING SHALL NOT BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER.
EMBANKMENT STABILITY:	STRUCTURAL EMBANKMENTS (TEMPORARY AND PERMANENT) SHALL BE PLACED IN LIFTS AND COMPACTED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. FILL SLOPES EXCEEDING 10 FEET IN HEIGHT SHALL BE PERMANENTLY STABILIZED AT REGULAR VERTICAL INCREMENTS OF 10 FEET (MAXIMUM) AS EACH FILL AREA IS BEING CONSTRUCTED.
LOW SOIL PH:	IN THE ABSENCE OF SOIL TEST RESULTS, THE CONTRACTOR SHALL PROVIDE LIME AT THE FOLLOWING RATES TO PROMOTE VEGETATIVE GROWTH: TEMPORARY SEEDING: ONE (1) TON PER ACRE PERMANENT SEEDING: SIX (6) TONS PER ACRE

MAINTENANCE/CONTRACTOR'S RESPONSIBILITIES

- G1. THE CONTRACTOR SHALL ASSURE THAT THE EROSION AND SEDIMENT POLLUTION CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN DRAWINGS AND THE TECHNICAL SPECIFICATIONS. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BMPs AFTER EACH RAINFALL EVENT AND ON A WEEKLY BASIS.
- G2. MAINTENANCE INSPECTIONS SHALL BE PERFORMED AND DOCUMENTED, ON ALL CONTROLS, AFTER EACH RAINFALL EVENT AND AT A MINIMUM ON A WEEKLY BASIS, USING DEP FORM 3150-FM-BWEW0083, DATED 2/2012 AND SHALL BE KEPT ONSITE AT ALL TIMES. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, OR RENETTING, MUST BE PERFORMED IMMEDIATELY. CONTRACTOR SHALL DOCUMENT IN WRITING ALL INSPECTIONS AND REMEDIAL ACTIONS ASSOCIATED WITH THE EROSION CONTROL FACILITIES. CONTRACTOR SHALL BE PREPARED TO PROVIDE THE INSPECTION LOG SHEETS TO THE OWNER AND/OR THE COUNTY CONSERVATION DISTRICT UPON REQUEST.
- G3. ONCE AN EROSION CONTROL FACILITY BECOMES CLOGGED WITH SEDIMENTS AND CAN NO LONGER PERFORM AS INTENDED, SAID FACILITY SHALL BE CLEANED OF SEDIMENTS OR REPLACED WITH A NEW FACILITY. SEDIMENT COLLECTED FROM THE EROSION CONTROL FACILITIES SHALL BE PLACED UPSTREAM OF THOSE CONTROLS AND IMMEDIATELY STABILIZED WITH SEED AND EROSION CONTROL BLANKET OR HAULED OFFSITE TO A DISPOSAL AREA WITH AN APPROVED EROSION AND SEDIMENT POLLUTION CONTROL PLAN. SEDIMENT SHALL BE DEPOSITED OUTSIDE OF STEEP SLOPES, WETLANDS, OR DRAINAGE SWALES.
- G4. REFER TO EACH EROSION CONTROL FACILITY DETAIL FOR ADDITIONAL INSTALLATION AND MAINTENANCE REQUIREMENTS ASSOCIATED WITH SAID FACILITY.
- G5. ALL PERMANENTLY SEEDDED AREAS THAT BECOME ERODED SHALL IMMEDIATELY HAVE THE TOPSOIL REPLACED, THE EROSION CONTROL MATTING REPLACED (IF APPLICABLE), THE GRASS RESEED AND MULCH REAPPLIED AND ANCHORED. IF EROSION PERSISTS, THE AREA SHALL BE EITHER LINED WITH SOD OR STABILIZED WITH ROCK RIPRAP AT THE DISCRETION OF THE ENGINEER/OWNER.
- G6. MAINTENANCE OF ALL PERMANENT BEST MANAGEMENT PRACTICES BECOMES THE RESPONSIBILITY OF THE OWNER IN PERPETUITY UPON COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY OWNER, SUBJECT TO THE TERMS OF THE WARRANTY PERIOD SPECIFIED IN THE CONTRACT DOCUMENTS.
- G7. FINES AND RELATED COSTS RESULTING FROM THE CONTRACTOR'S FAILURE TO PROVIDE ADEQUATE PROTECTION AGAINST SOIL EROSION AND FOR ANY VIOLATIONS OF THE CLEAN STREAMS LAW AND THE RULES AND REGULATIONS PROMULGATED THEREUNDER SHALL BE BORNE BY THE CONTRACTOR. FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
- G8. THE INTENT OF THIS PLAN/NARRATIVE IS TO INDICATE GENERAL MEANS OF COMPLIANCE WITH THE REQUIREMENTS OF THE RULES AND REGULATIONS OF CHAPTER 102, THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (AS AUTHORIZED UNDER THE CLEAN STREAMS LAW). IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT THESE METHODS, PLUS ADDITIONAL METHODS, AS MAY BE NECESSARY BECAUSE OF CONDITIONS CREATED BY LOCALIZED SITE CONDITIONS AND/OR CONSTRUCTION PROCEDURES IN ORDER TO ASSURE COMPLIANCE WITH APPLICABLE LAW. IT WILL FURTHER BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION AND SEDIMENT CONTROL FACILITIES SO THAT THEY PERFORM AS REQUIRED BY APPLICABLE LAW.

EROSION CONTROL PLAN PREPARER INFORMATION:

NAME: _____ ERIC C. NEAST, P.E.
FIRM: _____ GANNETT FLEMING, INC.
ADDRESS: _____ P.O. BOX 67100
HARRISBURG, PA 17106-7100
PHONE NUMBER: _____ 717-763-7212, EXT. 2828
QUALIFICATIONS: _____ 28 YEARS OF EXPERIENCE IN PREPARING EROSION CONTROL PLANS

w:\426\active jobs\0466 - east goshen township\05 working\CADD\08 hershey mill dam\Design Series\EROSION CONTROL NARRATIVE.dwg
Plot Date: 9/9/2019 2:29 PM. Plotted By: Miller, Brian S.

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1	RESPOND TO USACE COMMENTS	09/19	ECN
NO.	DESCRIPTION	DATE	BY
REVISIONS			

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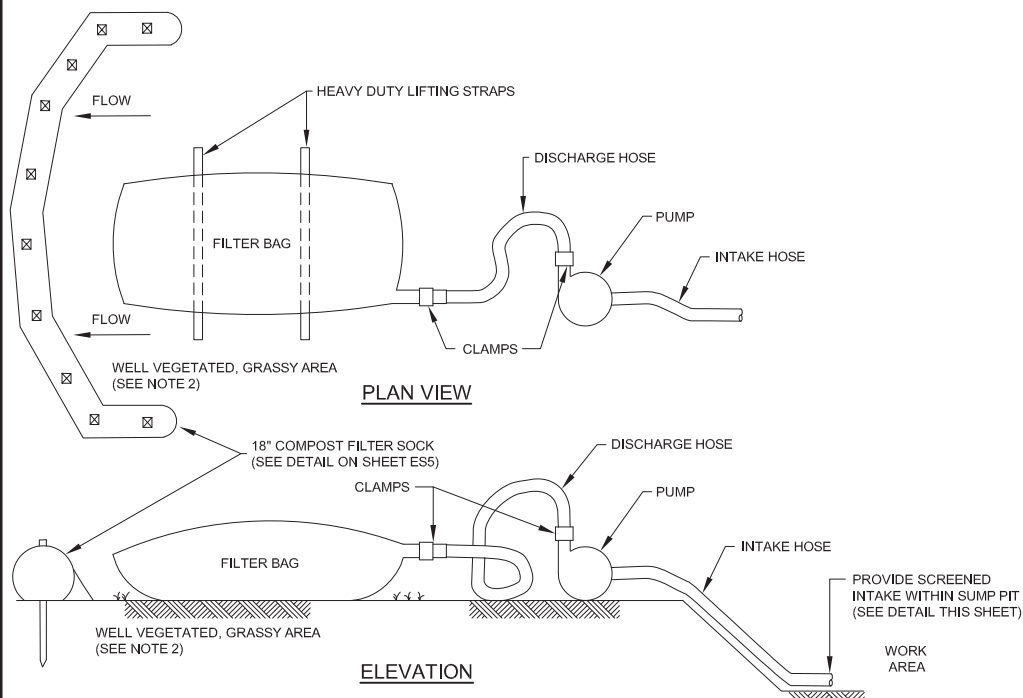


EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

DECOMMISSIONING OF
HERSHEY'S MILL DAM

EROSION AND SEDIMENT CONTROL
NARRATIVE
SHEET 2 OF 2

JOB NO.	SHEET NO.
60466	ES4
DATE	DRAWING NO.
SEPT. 2019	22 OF 34



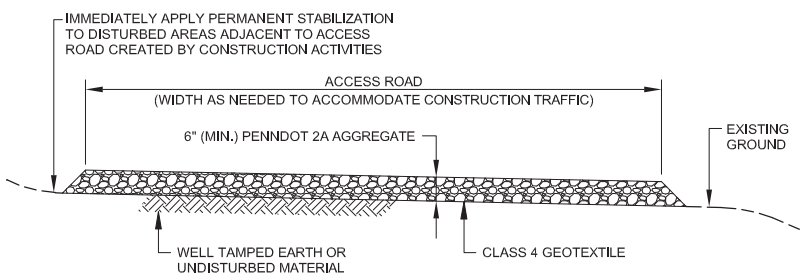
PUMPED WATER FILTER BAG

NOT TO SCALE

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

PUMPED WATER FILTER BAG NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING OPERATIONS, INCLUDING THE SELECTION, SIZING, AND OPERATION OF THE FILTERING DEVICE. IF CLAY SOILS ARE PRESENT, THE ADDITION OF A FLOCCULANT MAY BE NECESSARY TO EFFECTIVELY TREAT THE PUMPED WATER AND PREVENT OFFSITE SEDIMENTATION. THE CONTRACTOR SHALL CONSIDER THE ONSITE SOILS AND INCLUDE FILTERING MEASURES IN HIS BASE BID THAT WILL EFFECTIVELY TREAT THE PUMPED WATER. IF A PUMPED WATER FILTER BAG IS UTILIZED, IMPLEMENT SAID DEVICE IN COMBINATION WITH A SUMP PIT AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE INFORMATION PROVIDED WITHIN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL VERIFY LOCATION OF FACILITY WITH ENGINEER PRIOR TO CONSTRUCTION OF SAID FACILITY. FACILITY SHALL BE PLACED AT A LOCATION WHERE THE FILTERED OUTFLOW WILL NOT INTERFERE WITH ONGOING CONSTRUCTION ACTIVITIES OR CAUSE FLOODING OR EROSION PROBLEMS. FILTER BAGS SHALL DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOMEMBRANE-LINED FLOW PATH SHALL BE PROVIDED TO CONVEY FLOW TO A WELL VEGETATED AREA OR NATURAL WATERWAY IN A MANNER THAT WILL NOT RESULT IN EROSION.
- THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR ONE HALF THE MAXIMUM RATE SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMPED INTAKES SHALL BE FLOATING AND SCREENED.
- FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME HALF FULL. A SUPPLY OF SPARE FILTER BAGS SHALL BE KEPT AVAILABLE ONSITE FOR REPLACEMENT OF THOSE BAGS WHICH HAVE BEEN USED OR WHICH HAVE FAILED.
- SEDIMENT COLLECTED FROM THE DEVICE SHALL BE REMOVED AND USED FOR ONSITE GRADING AND IMMEDIATELY STABILIZED WITH SEED AND AN ANCHORED MULCH.
- REMOVE FACILITY WHEN NO LONGER NEEDED. REMOVE ALL MATERIALS AND UNSTABLE SEDIMENT AND EITHER SALVAGE OR DISPOSE OF PROPERLY. IMMEDIATELY STABILIZE ALL DISTURBED AREAS CREATED BY THE INSTALLATION, USE, AND REMOVAL OF THIS FACILITY.
- FILTER BAGS SHALL BE INSPECTED DAILY. IF A PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.
- FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
- THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED SO AS TO PREVENT LEAKAGE FROM THIS CONNECTION POINT.
- A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED.
- ALL PUMPING OF WATER FROM THE WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER VEGETATED AREAS.

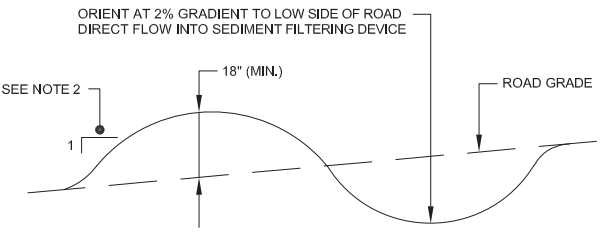


TYPICAL ACCESS/HAUL ROAD STABILIZATION

NOT TO SCALE

ACCESS/HAUL ROAD NOTES:

- ALL ACCESS/HAUL ROADS SHALL BE STABILIZED WITH AGGREGATE AND GEOTEXTILE AS SHOWN ON THE DETAIL.
- CONTRACTOR SHALL PROVIDE A PLAN TO THE OWNER PRIOR TO THE START OF WORK SHOWING THE LOCATION OF ALL ACCESS/HAUL ROADS.
- INSPECT HAUL ROADS ON A DAILY BASIS. IMMEDIATELY REPAIR AREAS OF EROSION, RUTS, AND DEPRESSIONS. MAINTAIN SPECIFIED STONE THICKNESS BY ADDING AGGREGATE.
- ALTERNATE ACCESS/HAUL ROAD STABILIZATION MEASURES SUCH AS WOOD MATS (SEE DETAIL THIS SHEET), TEMPORARY STEEL PLATES, OR TEMPORARY FIBERGLASS PLATES WOULD BE CONSIDERED AN EQUIVALENT SUBSTITUTION TO GRAVEL STABILIZATION PENDING APPROVAL FROM THE TOWNSHIP. OTHER STABILIZATION MEASURES MAY REQUIRE APPROVAL FROM THE USAGE.



WATERBAR

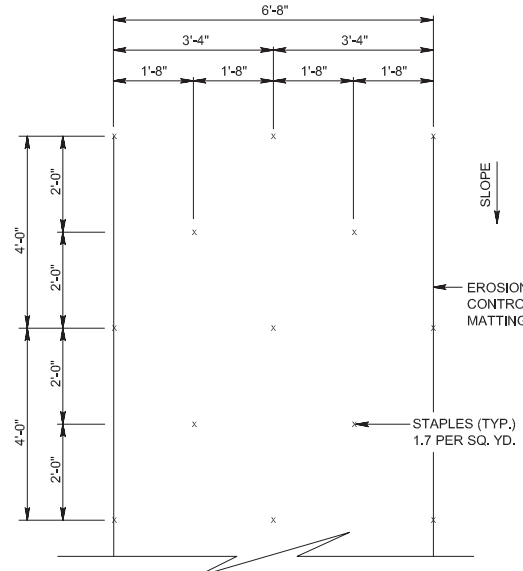
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WATERBAR NOTES:

- WATERBARS SHALL DISCHARGE TO COMPOST FILTER SOCKS AND/OR SEDIMENT TRAPS AS SHOWN ON THE PLAN.
- WATERBAR SIDE SLOPES MAY BE ADJUSTED AS NEEDED TO FACILITATE VEHICULAR MOVEMENT.
- WATERBARS SHALL BE INSPECTED WEEKLY (DAILY ON ACTIVE ROADS) AND AFTER EACH RUNOFF EVENT. DAMAGED OR ERODED WATERBARS SHALL BE RESTORED TO ORIGINAL DIMENSIONS WITHIN 24 HOURS OF INSPECTION.
- MAINTENANCE OF WATERBARS SHALL BE PROVIDED UNTIL ALL CONTRIBUTING DRAINAGE AREA HAS ACHIEVED PERMANENT STABILIZATION AND CONSTRUCTION TRAFFIC CEASES.
- WATERBAR SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.

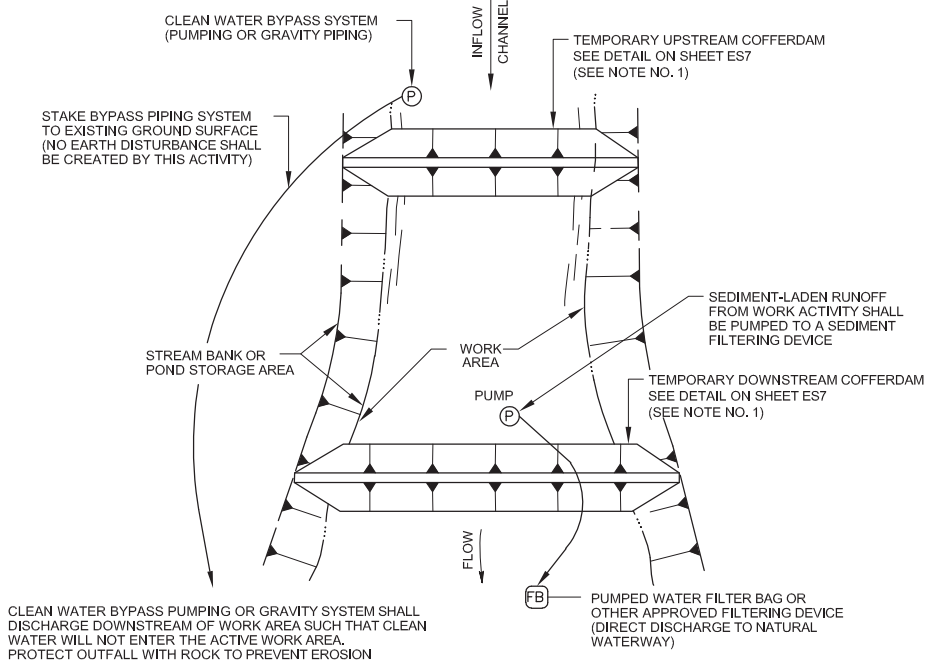
EROSION CONTROL MATTING NOTES:

- EROSION CONTROL MATTING IS TO BE PLACED AT THE FOLLOWING LOCATIONS:
 - ALL LOCATIONS IDENTIFIED ON THE PLAN DRAWINGS
 - ALL DISTURBED AREAS WITHIN 50 FEET OF A WATERWAY
 - ALL OTHER VEGETATED SLOPES WHICH ARE STEEPER THAN 3H:1V
 - ALL GRASS-LINED WATERWAYS (SEE DIVERSION CHANNEL DETAIL ON SHEET E57)
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED. REMOVE ALL SURFACE IRREGULARITIES INCLUDING STONES, ROCKS, EARTH CLOUDS, DEBRIS, OR OTHER ITEMS THAT WILL PREVENT THE MATTING FROM COMING IN DIRECT CONTACT WITH THE SOIL SURFACE.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ROLL THE BLANKETS DOWN THE SLOPE IN DIRECTION OF THE WATER FLOW. MATTING SHALL BE IN DIRECT CONTACT WITH THE UNDERLYING SOILS AT ALL LOCATIONS.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY A 2" OVERLAP.
- WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
- USE ADDITIONAL STAPLING AS NECESSARY, TO SECURE CRITICAL POINTS ALONG THE SLOPE.
- REFERENCE: NORTH AMERICAN GREEN EROSION CONTROL BLANKETS (SC150) EAST COAST EROSION CONTROL BLANKETS (ECSC-2) OR APPROVED EQUAL (SEE DIVERSION CHANNEL DETAIL ON SHEET E57 FOR MATTING TO BE USED WITHIN WATERWAYS)
- PROVIDE EROSION MATTING OVERLAYS AND STAPLING PATTERN AS DIRECTED BY THE MANUFACTURER OR AS SHOWN ON THIS DETAIL, WHICHEVER IS THE MORE STRINGENT.



EROSION CONTROL MATTING FOR DISTURBED AREAS

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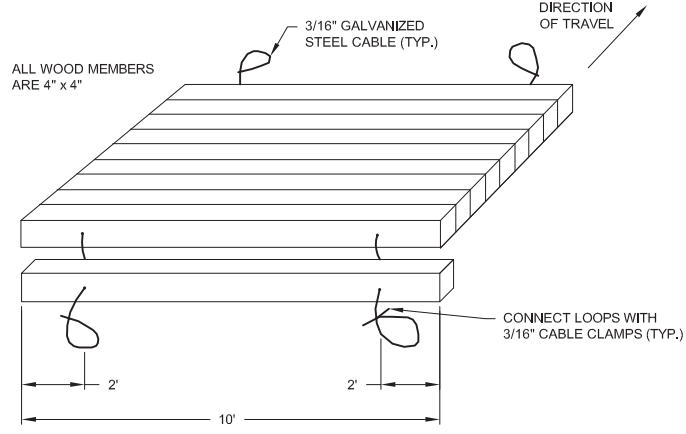


TEMPORARY DIVERSION OF WATER AND DAILY PUMP-AROUND SYSTEM

NOT TO SCALE

CONSTRUCTION SEQUENCE NOTES FOR TEMPORARY DIVERSION OF WATER SYSTEM

- CONTRACTOR TO PROVIDE DIVERSION OF WATER PLAN TO THE TOWNSHIP FOR APPROVAL PRIOR TO START OF CONSTRUCTION. PLAN SHALL PROVIDE DETAILS OF COFFERDAM MATERIAL, COFFERDAM LOCATIONS, SIZING DESIGN, SEQUENCING FOR INSTALLATION AND REMOVAL, LOCATION AND TYPE OF DEWATERING FACILITIES AND LOCATION AND TYPE OF EROSION CONTROL FACILITIES. ANY CHANGE FROM THE APPROVED PLAN SHOWN ON THE DRAWINGS SHALL REQUIRE APPROVAL FROM THE REVIEWING AGENCIES PRIOR TO BEGINNING THE PORTION OF THE PROJECT IN QUESTION.
- THE UPSTREAM AND DOWNSTREAM COFFERDAM SYSTEM SHALL CONTAIN AN IMPERMEABLE LINER ON THE UPSTREAM FACE TO PREVENT SEEPAGE INTO THE WORK AREA. COFFERDAM SYSTEM MAY INCLUDE SANDBAGS, JERSEY BARRIERS, ROCK FILL OR PORT-A-DAMS. OTHER TYPES OF DIVERSION MEASURES WILL REQUIRE APPROVAL BY THE TOWNSHIP AND USACE.
- CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE OF THE STREAM BED AND BANKS DURING THE COFFERDAM INSTALLATION AND REMOVAL OPERATIONS.
- DIVERT UPSLOPE CLEAN RUNOFF AROUND THE WORK AREA BY USE OF PUMPING OR GRAVITY PIPING. AT A MINIMUM, TEMPORARY DIVERSION MEASURES SHALL BE SIZED TO CONVEY THE ESTIMATED 1-YEAR, 24-HOUR STORM EVENT.
- CLEAN WATER SHALL BE DIVERTED INTO THE DOWNSTREAM RECEIVING WATERWAY. THE OUTFALL OF THE CLEAN WATER DIVERSION SHALL BE STABILIZED WITH ROCK OF SUFFICIENT SIZE AND COVERAGE TO PROTECT AGAINST EROSION.
- WATER WHICH COLLECTS WITHIN THE WORK AREA AND INTERFERES WITH THE WORK ACTIVITIES SHALL BE PUMPED TO A SEDIMENT FILTERING DEVICE, SUCH AS A PUMPED WATER FILTER BAG. THE DISCHARGE FROM THIS FACILITY SHALL BE DIRECTED INTO A NATURAL WATERWAY. PROVIDE ADDITIONAL MEASURES AS NEEDED TO PREVENT EROSION FROM THE FILTERED OUTFLOW.
- AFTER CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZE ALL DISTURBED AREAS, REMOVE ALL SEDIMENT DEPOSITS FROM THE DEWATERED WORK AREA AND REMOVE THE TEMPORARY COFFERDAM AND PIPING.



WOOD MAT FOR TEMPORARY WETLAND CROSSING

NOT TO SCALE

w:\426\active jobs\0406 - east goshen townshp\05 working\CADD\06 hersey mill dam\Design Series\EROSION CONTROL DETAILS.dwg Plot Date: 9/9/2019 2:26 PM. Plotted By: Miller, Brian S.

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NO.	DESCRIPTION	DATE	BY
1	RESPOND TO USACE COMMENTS	09/19	ECN
REVISIONS			

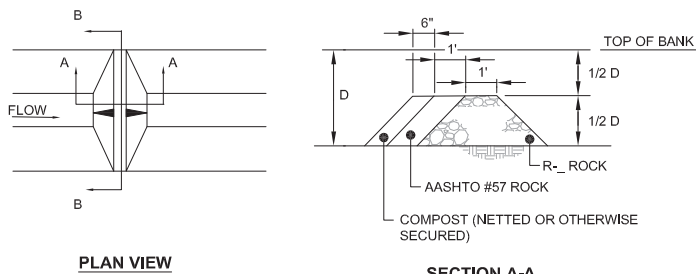
DESIGNED	CADD	SCALE
MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX



EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

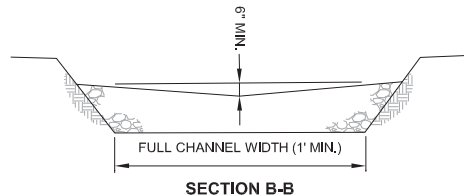
**EROSION AND SEDIMENT CONTROL
DETAILS
SHEET 2 OF 3**

JOB NO.	SHEET NO.
60466	ES6
DATE	DRAWING NO.
SEPT. 2019	24 OF 34



PLAN VIEW

SECTION A-A



SECTION B-B

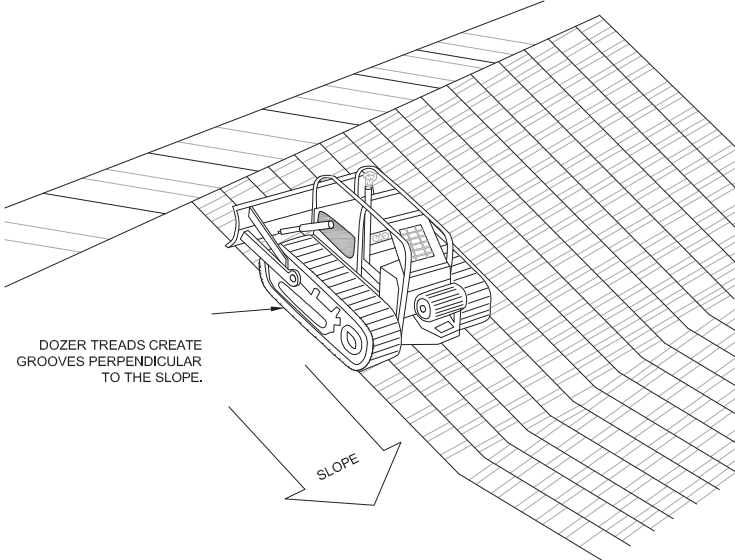
FOR 3' ≤ D: USE R-4
 FOR 2' ≤ D < 3': USE R-3
 NOT APPLICABLE FOR D < 2'

ROCK FILTER NUMBER	LOCATION	D (FT)	RIPRAP SIZE
1	SOUTH END OF SITE	3	R-4
2	DOWNSTREAM END OF CHANNEL REACH 3	3	R-4

ROCK FILTER
NOT TO SCALE

ROCK FILTER NOTES:

- SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTER.
- IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL, CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENT AND STABILIZE DISTURBED AREAS.



DOZER TREADS CREATE GROOVES PERPENDICULAR TO THE SLOPE.

SLOPE

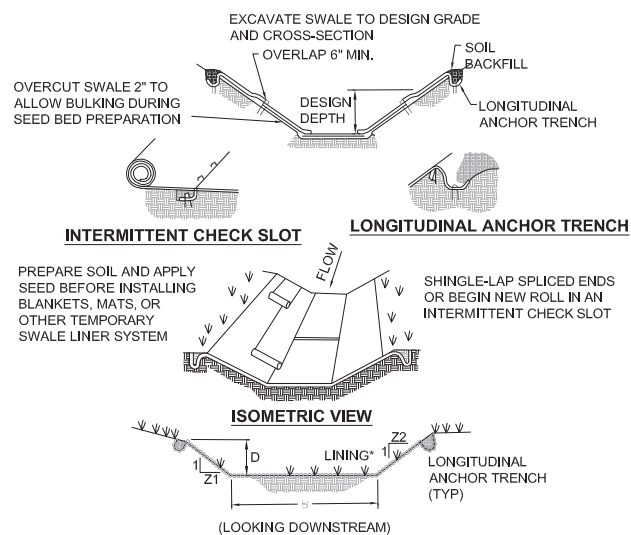
TRACKING SLOPES IS DONE BY RUNNING TRACKED MACHINERY UP AND DOWN THE SLOPE, LEAVING TREAD MARKS PARALLEL TO THE CONTOUR.

(NOTE: IF A BULLDOZER IS USED, THE BLADE SHOULD BE UP.)

CARE SHOULD BE EXERCISED ON SOILS HAVING A HIGH CLAY CONTENT TO AVOID OVER-COMPACTION.

TRACKING A FILL SLOPE

NOT TO SCALE



INTERMITTENT CHECK SLOT

LONGITUDINAL ANCHOR TRENCH

ISOMETRIC VIEW

CHANNEL CROSS-SECTION

CHANNEL NUMBER	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING	TEMPORARY OR PERMANENT (T OR P)
1	STAGE 2 GRADING	5	4.5	23	2	2	SC250	T

ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF SWALE IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

SWALE DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. SWALE SHALL BE CLEANED WHENEVER TOTAL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO SWALE WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

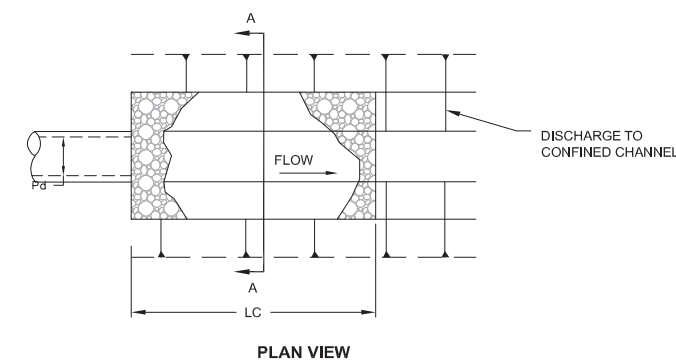
NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT SWALES TO ENSURE SUFFICIENT SWALE CAPACITY.

*AMEND TOP 6" OF SOIL WITH COMPOST

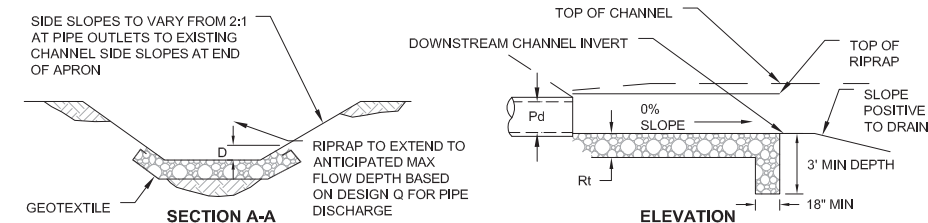
REFER TO SHEET G13 FOR TYPICAL GEOMETRY FOR PERMANENT CHANNELS REACH NO. 1, 2, 3, AND POND OUTLET CHANNEL.

DIVERSION CHANNEL

NOT TO SCALE



PLAN VIEW



SECTION A-A

ELEVATION

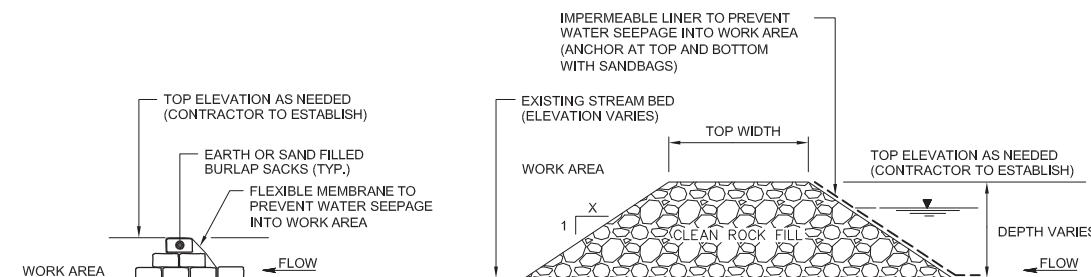
OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP			APRON				
		SIZE (R-)	THICK. Rt (IN)	LENGTH LC (FT)	INITIAL BOTTOM WIDTH (AT ENDWALL) (FT)	END WIDTH (FT)	INITIAL TOP WIDTH (AT ENDWALL) (FT)	END TOP WIDTH (FT)	SIDE SLOPES H:V
1	2-36"	5	27	22	7	7	13.5	13.5	2
2	2-24"	6	36	23	5.4	5.4	11	11	2

ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.

ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

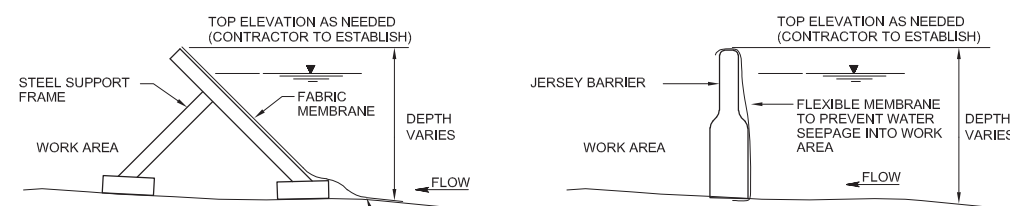
RIPRAP APRON AT PIPE OUTLET TO AN EXISTING/PROPOSED CHANNEL DETAIL

NOT TO SCALE



SECTION A-A
SANDBAG COFFERDAM OPTION

SECTION A-A
ROCK FILL COFFERDAM OPTION



SECTION A-A
MANUFACTURED PORTABLE DAM OPTION

SECTION A-A
JERSEY BARRIER OPTION

TEMPORARY COFFERDAM

NOT TO SCALE

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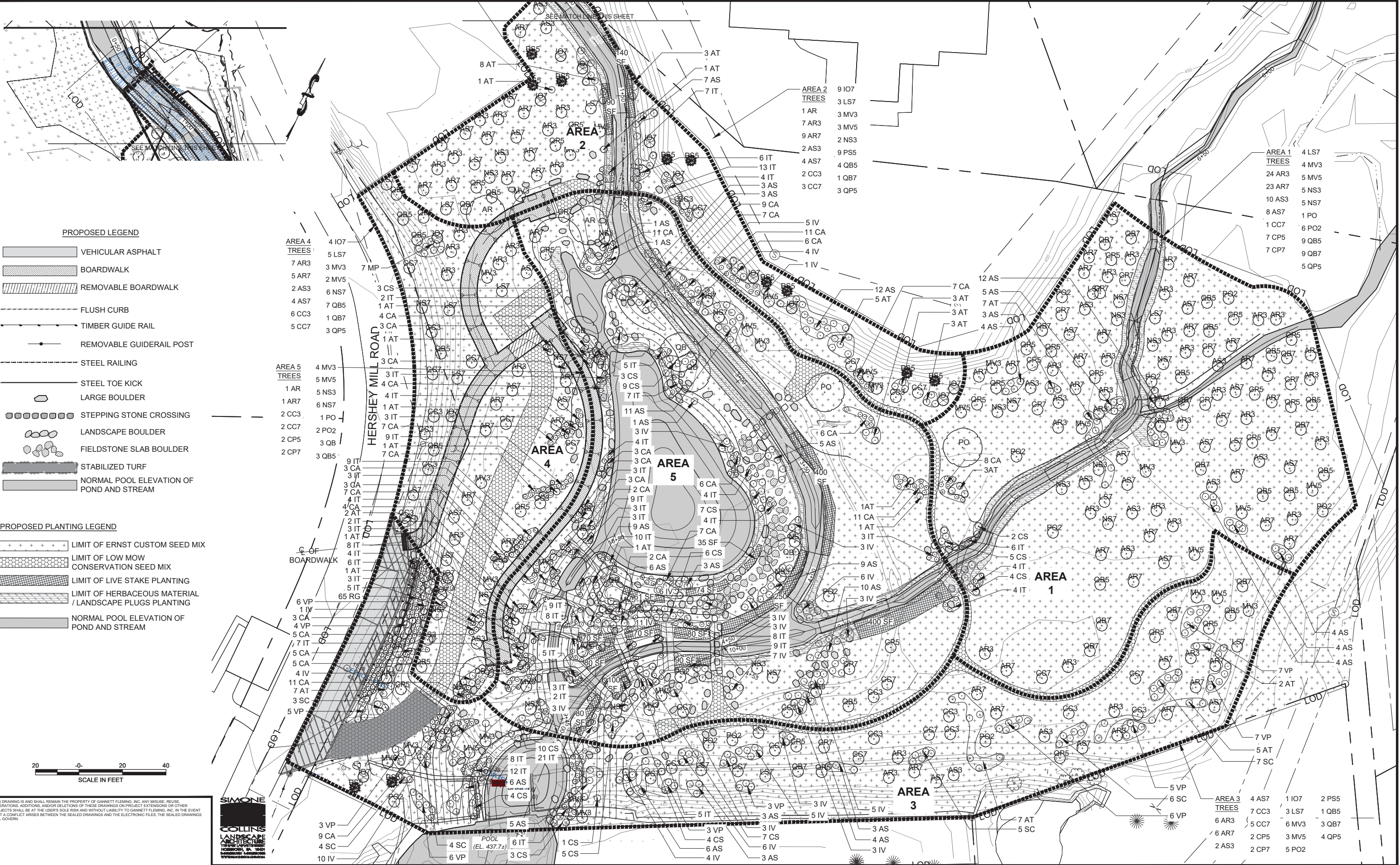
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MJL	JAO	AS SHOWN
DRAWN	CHECKED	APPROVED
JAO	RWS	XXX



EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
DECOMMISSIONING OF
HERSEY'S MILL DAM

EROSION AND SEDIMENT CONTROL
DETAILS
SHEET 3 OF 3

JOB NO.	SHEET NO.
60466	ES7
DATE	DRAWING NO.
SEPT. 2019	25 OF 34



PROPOSED LEGEND

- VEHICULAR ASPHALT
- BOARDWALK
- REMOVABLE BOARDWALK
- FLUSH CURB
- TIMBER GUIDE RAIL
- REMOVABLE GUIDERAIL POST
- STEEL RAILING
- STEEL TOE KICK
- LARGE BOULDER
- STEPPING STONE CROSSING
- LANDSCAPE BOULDER
- FIELDSTONE SLAB BOULDER
- STABILIZED TURF
- NORMAL POOL ELEVATION OF POND AND STREAM

PROPOSED PLANTING LEGEND

- LIMIT OF ERNST CUSTOM SEED MIX
- LIMIT OF LOW MOW CONSERVATION SEED MIX
- LIMIT OF LIVE STAKE PLANTING
- LIMIT OF HERBACEOUS MATERIAL / LANDSCAPE PLUGS PLANTING
- NORMAL POOL ELEVATION OF POND AND STREAM

- AREA 4 TREES**
- 4 IO7
 - 5 LS7
 - 7 AR3
 - 3 MV3
 - 5 AR7
 - 2 MV5
 - 2 AS3
 - 6 NS7
 - 4 AS7
 - 7 QB5
 - 6 CC3
 - 1 QB7
 - 5 CC7
 - 3 QP5
- AREA 5 TREES**
- 4 MV3
 - 5 MV5
 - 1 AR
 - 5 NS3
 - 1 AR7
 - 6 NS7
 - 1 PO
 - 2 CC3
 - 2 CC7
 - 2 PO2
 - 2 CP5
 - 3 QB
 - 2 CP7
 - 3 QB5

- AREA 2 TREES**
- 9 IO7
 - 3 LS7
 - 1 AR
 - 3 MV3
 - 7 AR3
 - 3 MV5
 - 9 AR7
 - 2 NS3
 - 2 AS3
 - 9 PS5
 - 4 AS7
 - 4 QB5
 - 2 CC3
 - 1 QB7
 - 3 CC7
 - 3 QP5

- AREA 1 TREES**
- 4 LS7
 - 4 MV3
 - 5 MV5
 - 24 AR3
 - 5 NS3
 - 23 AR7
 - 5 NS7
 - 10 AS3
 - 1 PO
 - 8 AS7
 - 6 PO2
 - 7 CP5
 - 9 QB5
 - 7 CP7
 - 9 QB7
 - 5 QP5

- AREA 3 TREES**
- 4 AS7
 - 1 IO7
 - 2 PS5
 - 7 CC3
 - 3 LS7
 - 1 QB5
 - 6 AR3
 - 5 CC7
 - 6 MV3
 - 3 QB7
 - 6 AR7
 - 2 CP5
 - 3 MV5
 - 4 QP5
 - 2 AS3
 - 2 CP7
 - 5 PO2

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Plot Date: 9/17/2019 5:22 PM, Plotted By: Melissa Barney

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SIMONE COLLINS LANDSCAPE ARCHITECTURE
1000 W. 10TH STREET
HARRISBURG, PA 17104
717.633.1111
www.simonecollins.com

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MB	PS	PS



EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA

**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

**PROPOSED CONDITIONS
LANDSCAPE PLAN
SITE PLAN**

JOB NO.	SHEET NO.
60466	L1
DATE	DRAWING NO.
SEPT 2019	26 OF 34

PROPOSED PLANT LIST

QTY	KEY	Scientific Name	Common Name	Spacing	Size	Condition	Notes
TREES							
2	AR	Acer rubrum	red maple	per plan	2 1/2 -3" cal	B&B	
44	AR3	Acer rubrum	red maple	per plan	2-3'	#3 Container	
44	AR7	Acer rubrum	red maple	per plan	4-6'	#7 Container	
16	AS3	Acer saccharinum	silver maple	per plan	2-3'	#3 Container	
18	AS7	Acer saccharinum	silver maple	per plan	4-6'	#7 Container	
17	CC3	Cercis canadensis	redbud	per plan	3-4'	#3 Container	
16	CC7	Cercis canadensis	redbud	per plan	3-4'	#7 Container	
11	CP5	Carpinus caroliniana	hornbeam	per plan	3-4'	#5 Container	
11	CP7	Carpinus caroliniana	hornbeam	per plan	4-6'	#7 Container	
14	IO7	Ilex opaca	American Holly	per plan	3-4'	#7	
15	LS7	Liquidambar styraciflua	sweetgum	per plan	3-4'	#7 Container	
20	MV3	Magnolia virginiana	sweetbay magnolia	per plan	3-4'	#3 Container	
18	MV5	Magnolia virginiana	sweetbay magnolia	per plan	3-4'	#5 Container	
12	NS3	Nyssa sylvatica	black gum	per plan	2-3'	#3 Container	
17	NS7	Nyssa sylvatica	black gum	per plan	4-6'	#7 Container	
2	PO	Platanus occidentalis	sycamore	per plan	2 1/2 -3" cal	B&B	
13	PO2	Platanus occidentalis	sycamore	per plan	3-4'	#2 Container	
11	PS5	Pinus strobus	white pine	per plan	2-3'	#5 Container	
3	QB	Quercus bicolor	swamp white oak	per plan	2 1/2 -3" cal	B&B	
24	QB5	Quercus bicolor	swamp white oak	per plan	3-4'	#5 Container	
14	QB7	Quercus bicolor	swamp white oak	per plan	4-6'	#7 Container	
15	QP5	Quercus palustris	pin oak	per plan	3-4'	#5 Container	
SHURBS							
147	AS	Alnus serrulata	smooth alder	per plan		Container Seedling	
71	AT	Asimina triloba	Pawpaw	per plan		Container Seedling	
180	CA	Clethra alnifolia	sweet pepperbush	per plan		Container Seedling	
82	CS	Cornus sericea	red osier dogwood	per plan		Container Seedling	
91	IV	Ilex verticillata	winterberry	per plan		Container Seedling	
281	IT	Itea virginica	virginia sweetspire	per plan		Container Seedling	
7	MP	Myrica pensylvanica	bayberry	per plan		Container Seedling	
29	SC	Sambucus canadensis	elderberry	per plan		Container Seedling	
55	VP	Viburnum prunifolium	blackhaw	per plan		Container Seedling	
65	RG	Rhus aromatica "gro low"	fragrant sumac "gro low"	per plan	18-24"	#2 Container	
LIVE STAKES							
-	-	Cephalanthus occident.	buttonbush	per plan		Live Stake	quantities based on SF
-	-	Cornus amomum	silky dogwood	per plan		Live Stake	quantities based on SF
-	-	Cornus racemosa	gray dogwood	per plan		Live Stake	quantities based on SF
HERBACEOUS MATERIAL, LANDSCAPE PLUGS							
100	-	Asclepias incarnata	Swamp milkweed	12" o.c		Landscape Plug	Plant in groups of 15 to 30
150	-	Caltha palustris	Marsh marigold	12" o.c		Landscape Plug	Plant in groups of 15 to 30
448	-	Carex appalachica	Appalachian sedge	12" o.c		Landscape Plug	Plant in groups of 15 to 30
448	-	Carex cherokeensis	Cherokee sedge	12" o.c		Landscape Plug	Plant in groups of 15 to 30
100	-	Chelone glabra	Turtlehead	12" o.c		Landscape Plug	Plant in groups of 15 to 30
96	-	Dryopteris erythrosora 'Brilliance'	Autumn fern	12" o.c		Landscape Plug	Plant in groups of 15 to 30
96	-	Dryopteris marginalis	Eastern woodfern	12" o.c		Landscape Plug	Plant in groups of 15 to 30
96	-	Eupatorium purpureum ssp. maculatum 'Gateway'	Joe Pye weed	12" o.c		Landscape Plug	Plant in groups of 15 to 30
100	-	Iris versicolor	Blueflag	12" o.c		Landscape Plug	Plant in groups of 15 to 30
150	-	Juncus effusus	Soft rush	12" o.c		Landscape Plug	Plant in groups of 15 to 30
450	-	Juncus tenuis	Poverty rush	12" o.c		Landscape Plug	Plant in groups of 15 to 30
100	-	Liatris spicata	Spike gayfeather	12" o.c		Landscape Plug	Plant in groups of 15 to 30
100	-	Lobelia cardinalis	Cardinal flower	12" o.c		Landscape Plug	Plant in groups of 15 to 30
160	-	Meehan's cordata	Meehan's mint	12" o.c		Landscape Plug	Plant in groups of 15 to 30
160	-	Onoclea sensibilis	Sensitive fern	12" o.c		Landscape Plug	Plant in groups of 15 to 30
96	-	Osmunda regalis var. spectabilis	Royal fern	12" o.c		Landscape Plug	Plant in groups of 15 to 30
96	-	Packera obovata	Roundleaf ragwort	12" o.c		Landscape Plug	Plant in groups of 15 to 30
192	-	Pachysandra procumbens	Allegheny spurge	12" o.c		Landscape Plug	Plant in groups of 15 to 30
150	-	Scirpus cyperinus	Wool grass	12" o.c		Landscape Plug	Plant in groups of 15 to 30
150	-	Scirpus validus	Soft-stemmed bulrush	12" o.c		Landscape Plug	Plant in groups of 15 to 30
96	-	Woodwardia virginica	Virginia chain fern	12" o.c		Landscape Plug	Plant in groups of 15 to 30
SEED MIX							
-	-	Ernst Custom Seed Mix		per plan		Live Seed	38 lb/acre
-	-	Low Mow Conservation Seed Mix		per plan		Live Seed	stabilized turf area
-	-	Avena sativa	Oats	per plan		Live Seed	Cover Crop, Certified Weed Free

PROPOSED ERNST CUSTOM SEED MIX

Species	Mix Percentage
Onoclea sensibilis	5.0%
Sagittaria latifolia	5.0%
Anemone canadensis	3.0%
Asclepias incarnata, PA Ecotype	3.0%
Tradescantia ohiensis, PA Ecotype	3.0%
Eupatorium maculatum, PA Ecotype	2.0%
Eupatorium perfoliatum, PA Ecotype	2.0%
Iris versicolor, PA Ecotype	2.0%
Lobelia siphilitica	2.0%
Ludwigia alternifolia	2.0%
Vernonia fasciculata	2.0%
Alisma subcordatum	1.0%
Liatris spicata, PA Ecotype	1.0%
Silphium perfoliatum	1.0%
Baptisia australis, PA Ecotype	2.0%
Chamaecrista fasciculata	2.0%
Carex lurida	10.0%
Carex scoparia	10.0%
Carex vulpinoidea	10.0%
Carex lupulina	10.0%
Eleocharis palustris	5.0%
Elymus virginicus	5.0%
Juncus effusus	5.0%
Carex grayi	2.0%
Elymus hystrix, PA Ecotype	2.0%
Scirpus validus	2.0%
Carex stipata	1.0%
Total	100.0%

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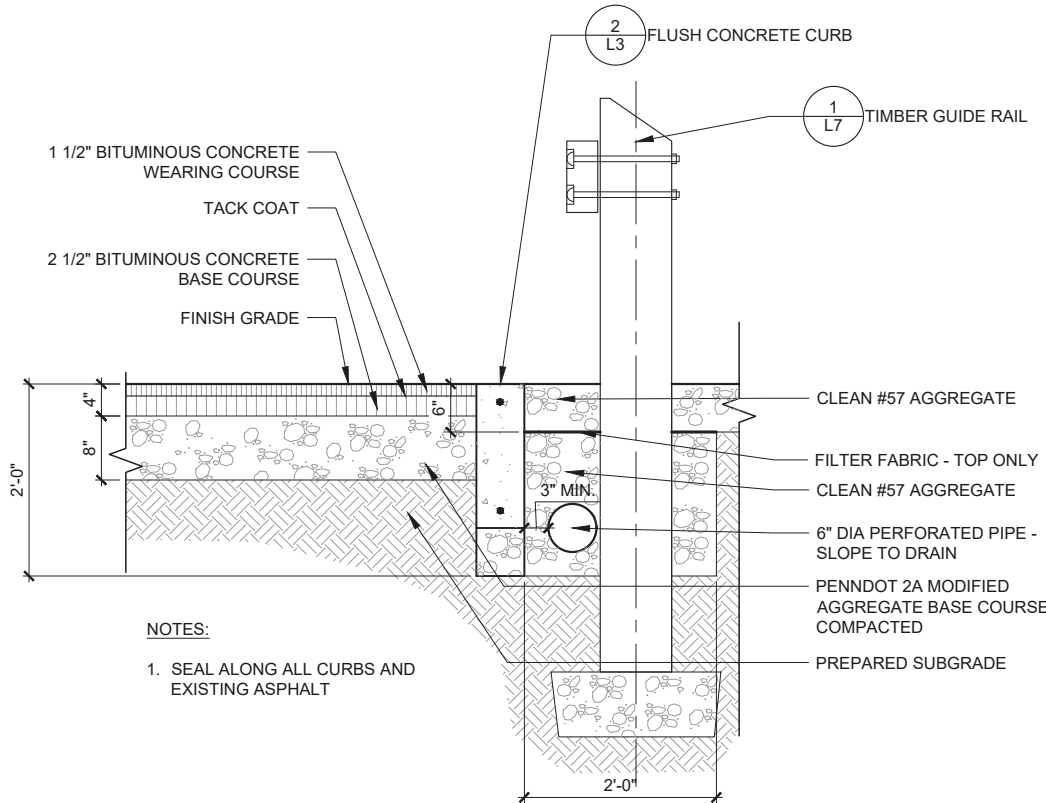
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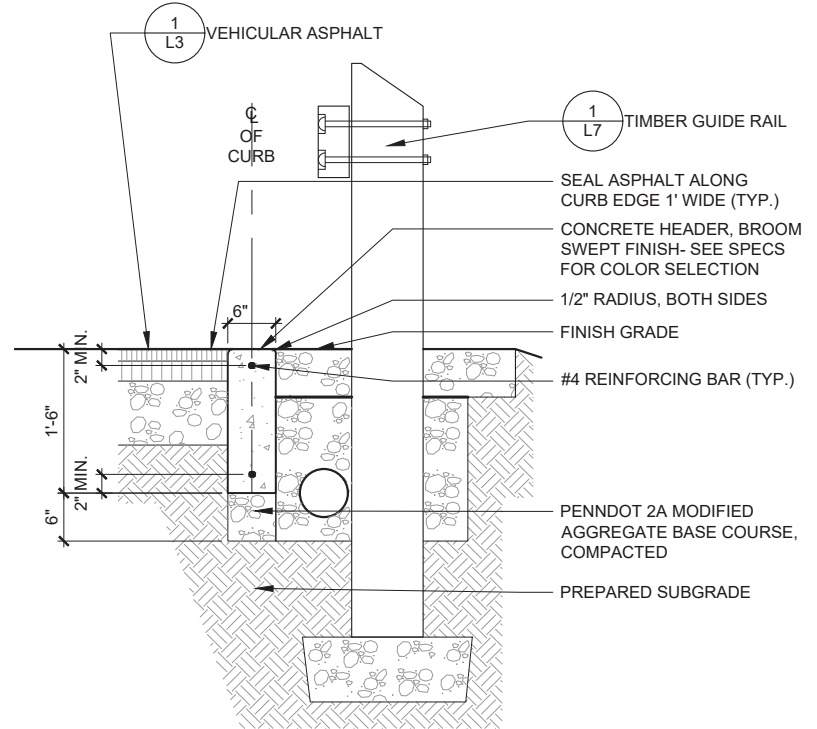
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CHESTER COUNTY, PENNSYLVANIA
**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

**PROPOSED CONDITIONS
LANDSCAPE PLAN
SITE DETAILS**

JOB NO.	SHEET NO.
60466	L2
DATE	DRAWING NO.
SEPT 2019	27 OF 34

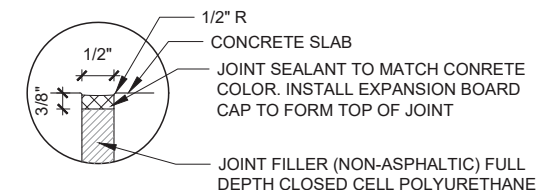


NOTES:
1. SEAL ALONG ALL CURBS AND EXISTING ASPHALT



NOTES:

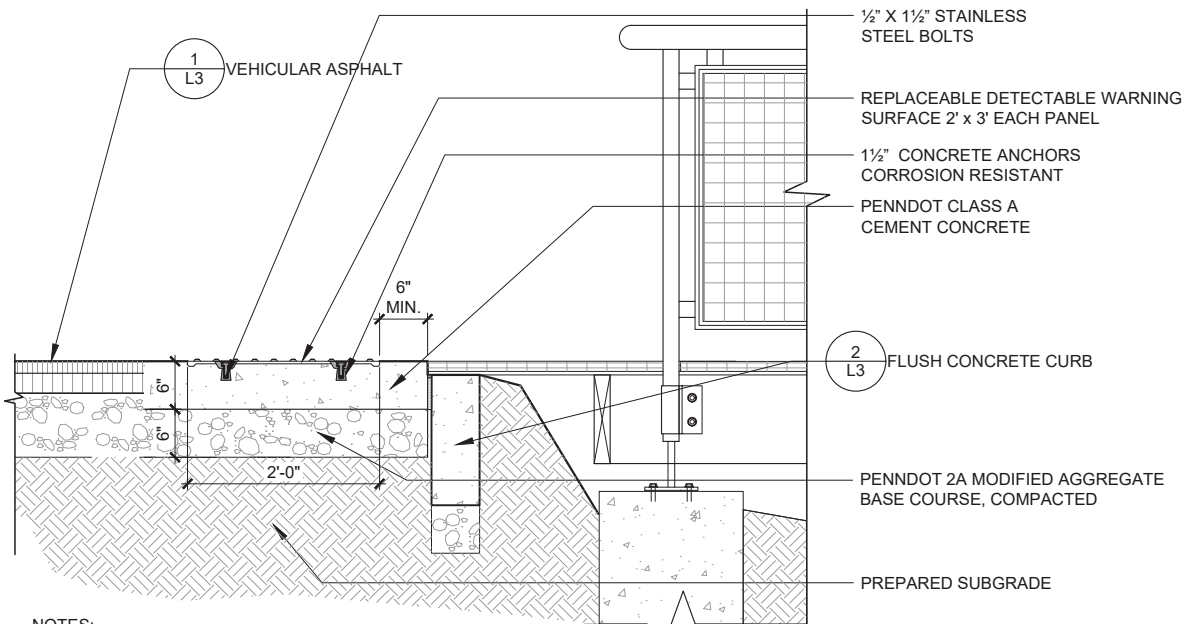
- EXPANSION JOINTS SHALL BE PLACED 20' O.C. UNLESS OTHERWISE NOTED.
- INSTALL EXPANSION JOINTS WHERE WALK ABUTS ANOTHER STRUCTURE OR EXISTING CONCRETE PAVING.



3 EXPANSION JOINT
1" = 1'-0"

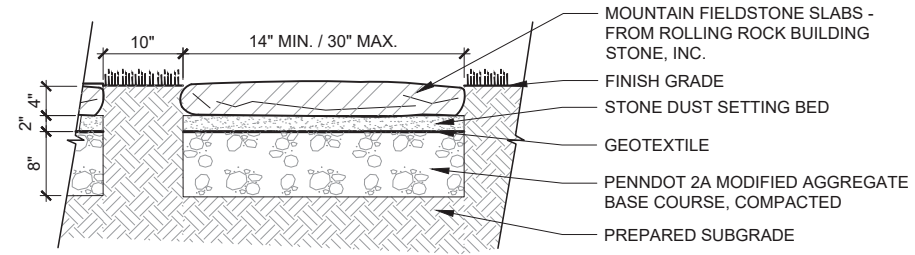
1 VEHICULAR ASPHALT
1" = 1'-0"

2 FLUSH CONCRETE CURB
1" = 1'-0"

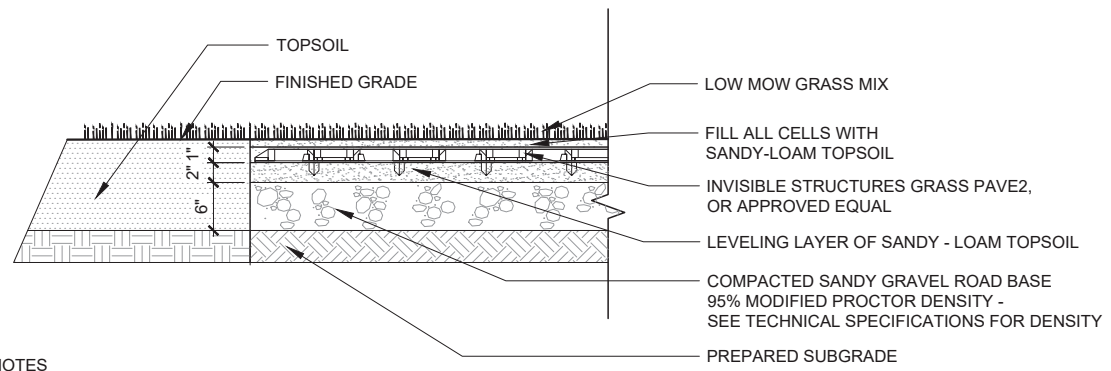


NOTES:
1. INSTALL DETECTABLE WARNING DEVICE PER MANUFACTURERS DIRECTIONS.
2. CONTRACTOR TO SUBMIT COLOR SELECTION FOR APPROVAL BY OWNERS REPRESENTATIVE PRIOR TO ORDERING.

4 DETECTABLE WARNING SURFACE
1" = 1'-0"



5 FIELDSTONE SLAB BOULDER
1" = 1'-0"



NOTES:
1. INSTALL AS PER MANUFACTURER'S INSTRUCTION

6 STABILIZED TURF PAVING
1" = 1'-0"

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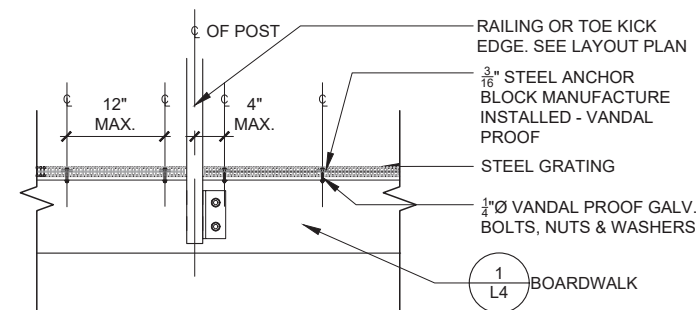
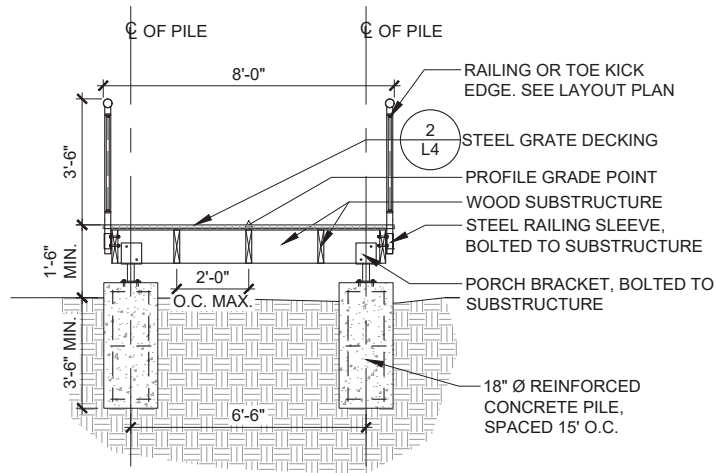
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SRL	MB	AS SHOWN
DRAWN	CHECKED	APPROVED
MB	PS	PS



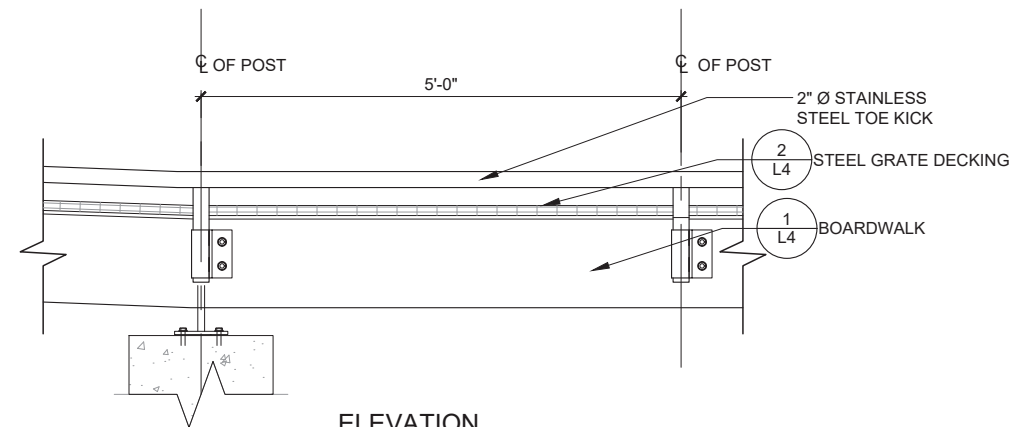
EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

**LANDSCAPE PLAN
SITE DETAILS**

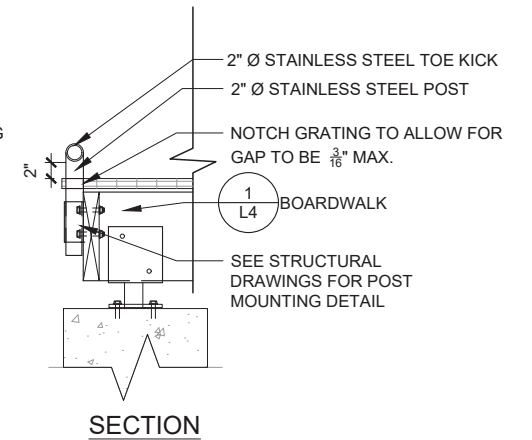
JOB NO.	SHEET NO.
60466	L3
DATE	DRAWING NO.
SEPT 2019	28 OF 34



NOTE:
 1. PROTECT STEEL GRATING FROM DISSIMILAR MATERIALS ACCORDING TO SPECIFICATION.
 2. PROVIDE SHOP DRAWINGS ACCORDING TO SPECIFICATION.



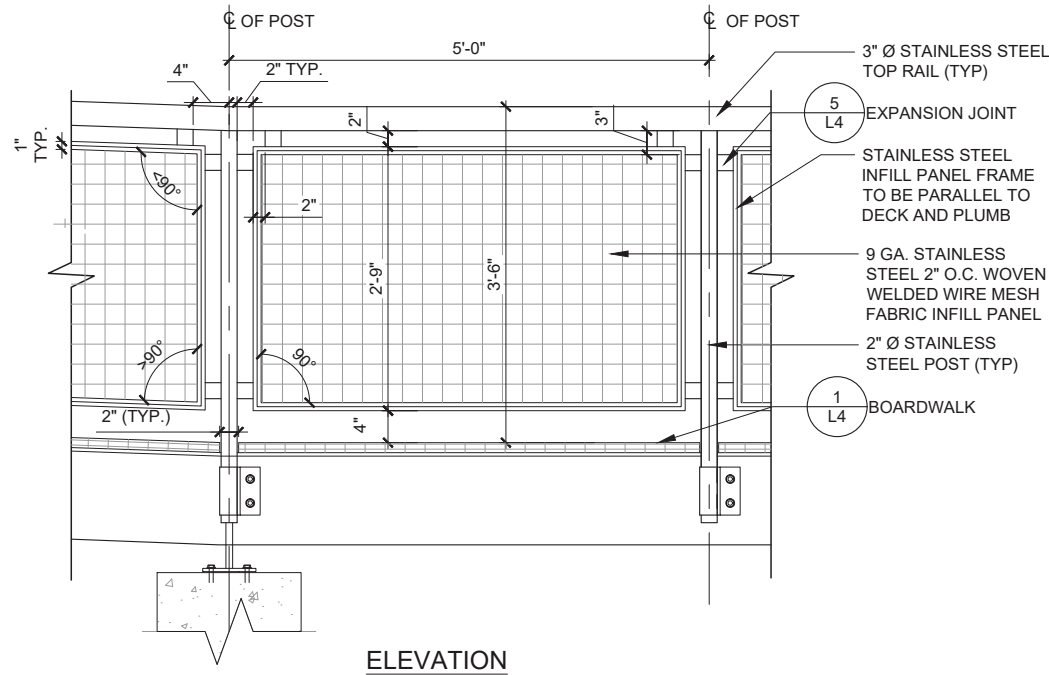
NOTES:
 1. SUBMIT SHOP DRAWINGS FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF RAILING.



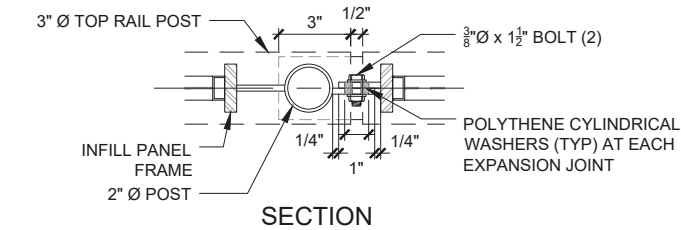
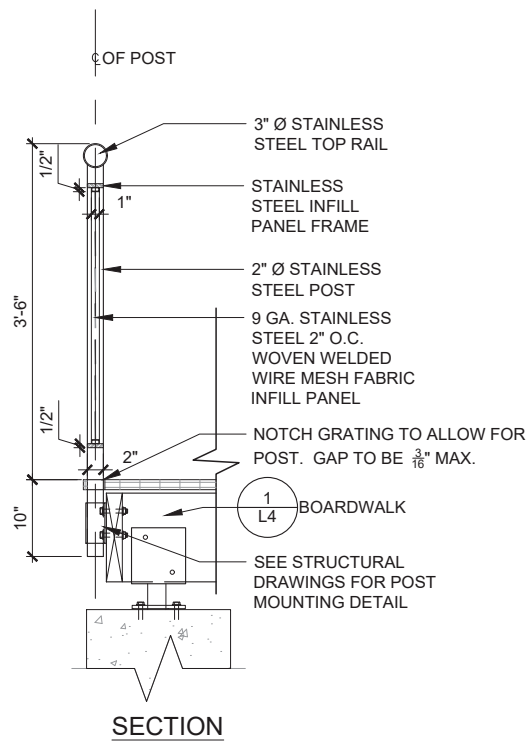
1 BOARDWALK
 3/8" = 1'-0"

2 STEEL GRATE DECKING
 1" = 1'-0"

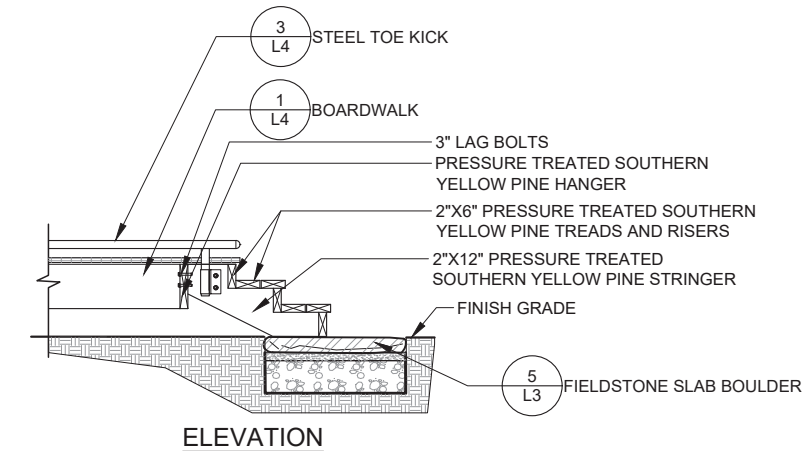
3 STEEL TOE KICK
 1" = 1'-0"



NOTES:
 1. SUBMIT SHOP DRAWINGS FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF RAILING.
 2. ADJUST ANGLES OF INFILL PANELS TO MAINTAIN 2' SPACING FROM TOP RAIL AND POST.



5 EXPANSION JOINT
 3" = 1'-0"



NOTES:
 1. SUBMIT SHOP DRAWINGS FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF RAILING.

6 BOARDWALK STEPS
 1/2" = 1'-0"

4 STEEL INFILL PANEL RAILING
 1" = 1'-0"

X:\17030.00\Hershey Mill Dam Park_CDA\DW\GACTIVE\Sheet Set\L4.dwg
 Plot Date: 01/17/2019 5:10 PM, Plotted By: Melissa Bailey

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NO.	DESCRIPTION	DATE	BY
REVISIONS			

DESIGNED	CADD	SCALE
SRL	MB	AS SHOWN
DRAWN	CHECKED	APPROVED
MB	PS	PS

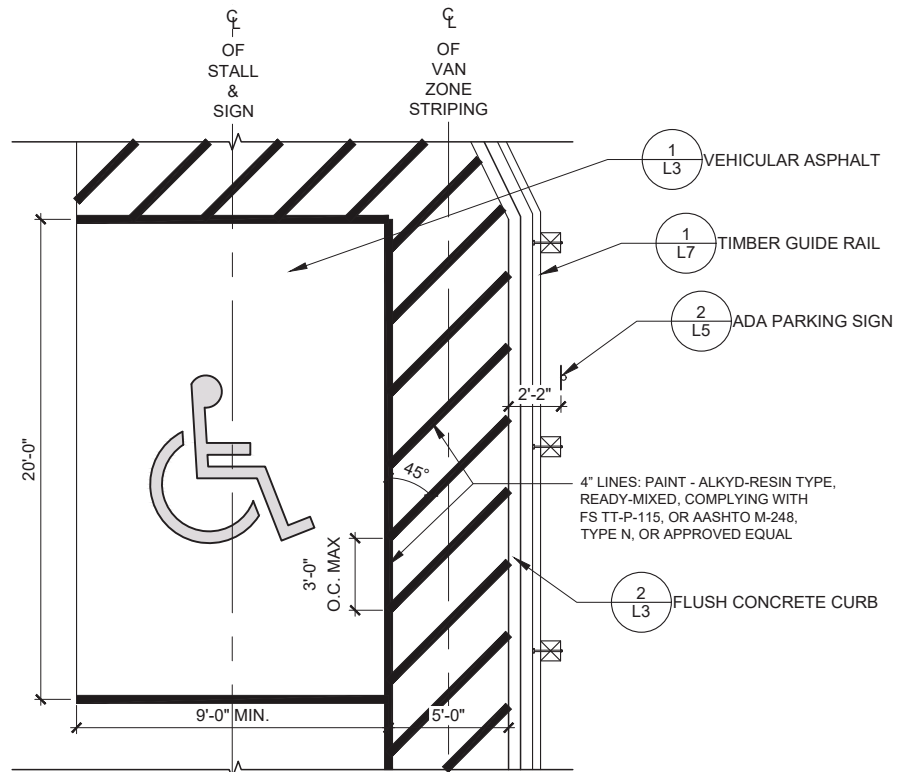


EAST GOSHEN TOWNSHIP
 CHESTER COUNTY, PENNSYLVANIA

DECOMMISSIONING OF
 HERSHEY'S MILL DAM

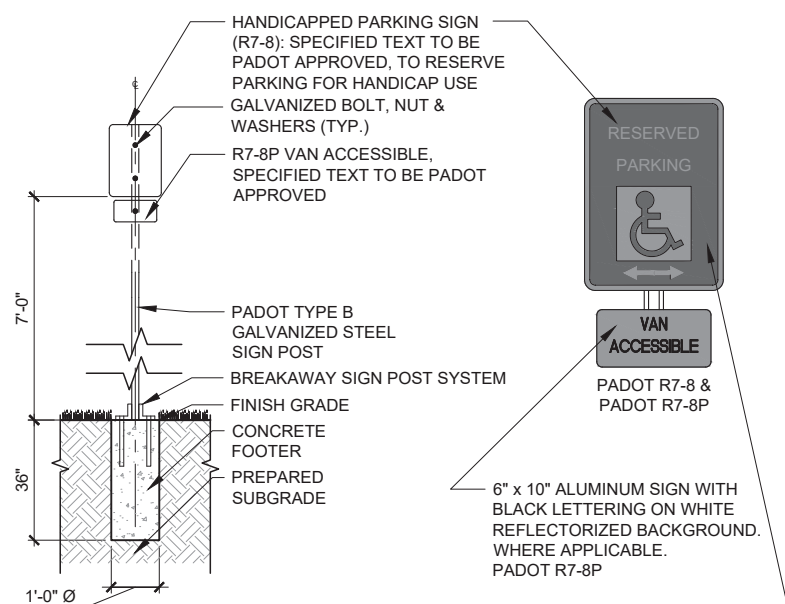
PROPOSED CONDITIONS
 LANDSCAPE PLAN
 SITE DETAILS

JOB NO.	SHEET NO.
60466	L4
DATE	DRAWING NO.
SEPT 2019	29 OF 34



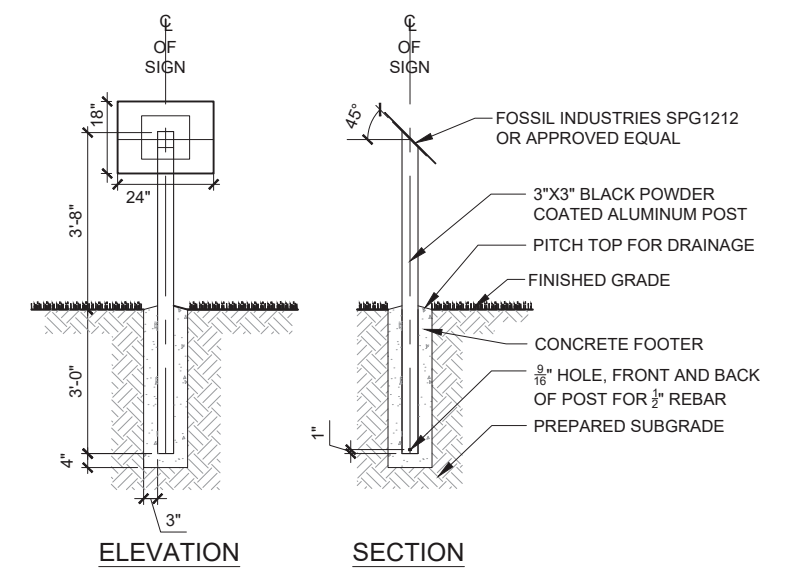
NOTES:
 1. PARKING STALL AND UNLOADING ZONE NOT TO EXCEED 2% GRADE SLOPE OR CROSS SLOPE.

1
 L5
 ADA PARKING LAYOUT
 1/4" = 1'-0"



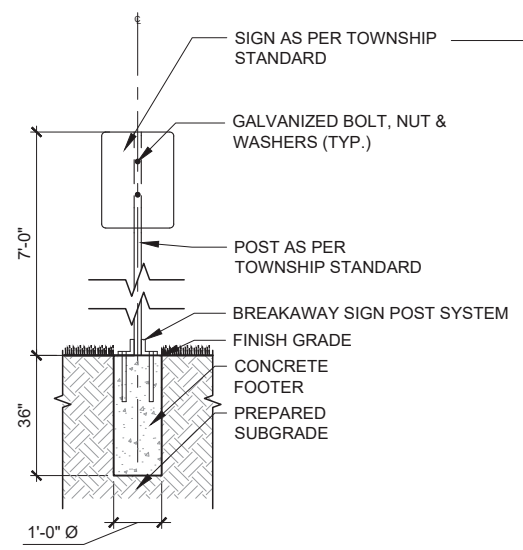
NOTE:
 1. CENTER SIGN WITH CENTERLINE OF PARKING STALL
 2. SIGNS AND POSTS TO CONFORM TO PENNDOT PUB 236 STANDARDS
 3. BREAKAWAY SIGN POST SYSTEM SHALL BE AS PERMITTED BY PENNDOT PUBLICATION 408.

2
 L5
 ADA PARKING SIGN
 1/2" = 1'-0"



NOTES:
 1. SIGN TEXT AND GRAPHICS WILL BE PROVIDED TO CONTRACTOR.
 2. SIGN MANUFACTURER:
 FOSIL INDUSTRIES
 44 JEFFRYN BOULEVARD
 DEER PARK, NY 11729
 P: 631-254-9200
 F: 631.254.4172
 WWW.FOSILGRAPHICS.COM
 OR APPROVED EQUAL

3
 L5
 INTERPRETIVE SIGN
 1/2" = 1'-0"



5
 L5
 RULES AND REGULATIONS SIGNAGE
 1/2" = 1'-0"

RULES AND REGULATIONS

THE FOLLOWING RULES AND REGULATIONS ARE HEREBY ESTABLISHED FOR THE MANAGEMENT AND PROTECTION OF ALL PARKS, PLAYGROUNDS AND OPEN SPACE OWNED BY THE TOWNSHIP OF EAST GOSHEN. THESE RULES APPLY TO BOTH ACTIVE AND PASSIVE PARKS.

HOURS OF OPERATION: ALL PARKS, WHETHER ACTIVE OR PASSIVE, SHALL BE OPEN DAILY TO ALL TOWNSHIP RESIDENTS AND THEIR ACCOMPANIED GUESTS BETWEEN SUNRISE AND SUNSET. NO PERSON OTHER THAN TOWNSHIP EMPLOYEES OR OFFICERS OF THE TOWNSHIP SHALL BE ALLOWED TO ENTER ANY PARK AT ANY TIME BETWEEN SUNSET AND SUNRISE. ALL ACTIVITIES IN THE PARKS, WITH THE EXCEPTION OF THOSE ACTIVITIES UNDER THE DIRECT SUPERVISION OF THE PARK BOARD OR BY THOSE PERSONS ISSUED VALUED EXISTING PERMITS OR OTHER WRITTEN AUTHORIZATION BY THE TOWNSHIP AS DETERMINED BY THE BOARD, SHALL BE PROHIBITED. ALL ACTIVITIES SHALL BE PROHIBITED FROM 10:00 P.M. TO 5:00 A.M. UNLESS OTHERWISE SPECIFIED BY THE BOARD.

PROTECTION OF PARK PROPERTY: NO ONE SHALL BURN, DEFACE, REMOVE, CUT OR CHANGE ANY OF THE TREES, PLANTS, SHRUBS, TURF, BUILDINGS, STRUCTURES OR FEATURES OR ANY OTHER TOWNSHIP PARK PROPERTY.

REMOVAL OF PARK EQUIPMENT: NO ONE SHALL CLIMB, STAY UPON OR REMOVE ANY BENCH, SEAT, TABLE, FENCE, GRILL OR RECREATIONAL EQUIPMENT OR FACILITY FROM ANY PARK OR CHANGE THE LOCATION THEREOF WITHOUT PERMISSION FROM THE PARK BOARD.

DISORDERLY CONDUCT PROHIBITED: NO ONE SHALL CONDUCT HIMSELF WITHIN ANY PARK IN A BOISTEROUS, IMPROPER, OR DISREPUTABLE MANNER AS TO ANNOY ANY OTHER PERSON USING THE PARK OR OTHERWISE VIOLATE ANY TOWNSHIP POLICE OR OTHER LAW ENFORCEMENT OFFICIAL. ANY PERSON WHOSE ANY PERSON FROM ANY TOWNSHIP PARK FOR DISORDERLY CONDUCT.

PERMITS REQUIRED: NO PERSON OR ORGANIZATION SHALL HOLD ANY MEETING OR GATHERING IN ANY TOWNSHIP PARK WITHOUT FIRST HAVING OBTAINED WRITTEN PERMISSION FROM THE PARK BOARD OR ITS DESIGNEE. PERMIT CRITERIA AND PROCEDURES SHALL BE RECOMMENDED BY THE PARK BOARD AND FORMALLY ESTABLISHED BY RESOLUTION OF THE BOARD OF SUPERVISORS.

SECURITY ARRANGEMENTS: FOR ALL GATHERINGS FOR WHICH POLICE SECURITY IS DEEMED NECESSARY BY THE PARK BOARD, SUCH SECURITY MUST BE PAID FOR BY THE SPONSORING OF THE GATHERING. THE NUMBER OF POLICE PERSONNEL OR POLICE SECURITY SHALL BE DETERMINED BY THE CHIEF OF POLICE. CONFIRMATION OF THE SECURITY ARRANGEMENTS WILL BE REQUIRED BEFORE FINAL APPROVAL OF THE PERMIT.

DISPOSAL OF WASTE MATERIALS: NO PERSON SHALL DISPOSE OF ANY WASTE OR GARBAGE IN THE PARKS EXCEPT FOR THE REFUSE THAT ORIGINATED FROM AN ACTIVITY IN ANY PARK. ALL PERSONS USING THE PARKS SHALL DISPOSE OF ALL WASTE OR GARBAGE LEFT BY THEM IN SUCH PROPER RECEPTACLES PROVIDED ON SITE BY THE TOWNSHIP.

DEPOSIT REQUIRED: THE PARK BOARD MAY REQUIRE A DEPOSIT FROM THE SPONSOR FOR RESERVED EVENTS NOT EXCEEDING \$200. THE AMOUNT OF THE DEPOSIT FOR EACH EVENT IS DETERMINED BY THE SUPERVISORS. ADDED TO THE DEPOSIT SHALL BE THE NUMBER OF PARTICIPANTS. ADVANCED NOTICE OF THE SPONSORED EVENT AND SECURITY CONSIDERATIONS, IF WASTE OR GARBAGE IS NOT DISPOSED OF IN THE PROPER MANNER, AND THE TOWNSHIP IS OUT OF THE EXPENSE OF DOING SO, THE ORGANIZATION OR SPONSORING PARTY SHALL FORFEIT AN APPROPRIATE AMOUNT OF THE DEPOSIT TO THE TOWNSHIP TO REIMBURSE IT FOR SUCH EXPENSE.

VEHICULAR RESTRICTIONS: PARKING OR DRIVING ON PARK PROPERTY IS PROHIBITED EXCEPT IN AUTHORIZED AREAS. UNREGISTERED VEHICLES OF ANY KIND ARE NOT ALLOWED WITHIN PARK GROUNDS WITHOUT SPECIAL PERMISSION FROM THE PARK BOARD EXCEPT FOR VEHICLES USED IN THE COURSE OF PARK MAINTENANCE OR OTHER NECESSARY ACTIVITY.

SCULPTURE EQUIPMENT: NO SCULPTURE EQUIPMENT (ANY FACILITY) SHALL BE PERMITTED IN ANY PARK UNLESS SPECIAL PERMISSION HAS BEEN REQUESTED FROM THE PARK BOARD.

SALES AND STRUCTURES PROHIBITED: NO PERSON SHALL SET UP ANY BOOTH, TABLE, STAND OR STRUCTURE WHATSOEVER WITHIN THE LIMITS OF ANY PARK WITHOUT THE CONSENT OF THE PARK BOARD. THERE SHALL BE NO SELLING OF ANY KIND OR PERSONAL PROFIT WITHIN ANY PARK AND NO ONE SHALL SELL OR OFFER FOR SALE ANY OBJECT OR MERCHANDISE OR OTHER OBJECT OF VALUE WITHOUT THE CONSENT OF THE PARK BOARD.

DEFACING PROPERTY: NO PERSON SHALL INJURE, DEFACE OR DESTROY ANY NOTICE OR SIGNAGE POSTED WITHIN ANY PARK BY THE PARK BOARD NOR SHALL ANY PERSON POST AT ANY PLACE WITHIN THE PARKS. ANY NOTICE OR SIGNAGE OTHER THAN THAT SPECIALLY PERMITTED BY THE PARK BOARD.

SETTING OF FIRE PROHIBITED: NO PERSON SHALL SET OR MAINTAIN ANY FIRE IN ANY PARK EXCEPT IN GRILLS, FIREPLACES OR OTHER LOCATIONS MAINTAINED FOR THAT PURPOSE. THE USE OF ACCESSIBLE CHAIRS IS PROHIBITED.

FIREARMS AND FIREWEAPONS: FIREARMS ARE PROHIBITED BY ORD. NO. 126-08 (1).

NO PERSON, OTHER THAN A TOWNSHIP POLICE OFFICER OR OTHER LAW ENFORCEMENT OFFICER ENGAGED IN THE PERFORMANCE OF HIS OR HER OFFICIAL DUTY, SHALL DISCHARGE ANY FIREARM WITHIN THE LIMITS OF ANY ACTIVE PARK OR PASSIVE PARK AS DEFINED IN THIS CHAPTER. NO PERSON SHALL SHOOT A BOW AND ARROW OR CROSSBOW WITHIN THE LIMITS OF ANY ACTIVE PARK OR PASSIVE PARK UNLESS THEY ARE PARTICIPATING IN A TOWNSHIP MANAGEMENT PROGRAM PURSUANT TO § 2-24 OF THIS CHAPTER. THE USE OF FIREARMS THAT DO NOT DISCHARGE A PROJECTILE, BY FIREARMS OR OTHER GUNNERS, SHALL BE PERMITTED WITHIN THE LIMITS OF ANY ACTIVE PARK OR PASSIVE PARK AS AUTHORIZED BY ORD. NO. 126-08 (1) AND ORD. NO. 126-08 (2) BY ORD. NO. 126-17 (1).

NO FIREWORKS ARE PERMITTED IN ANY PARK WITHOUT THE PRIOR WRITTEN CONSENT OF THE FIRE MARSHAL AND BOARD OF SUPERVISORS.

SPORTS NOTE: FORMER SUBSECTION (N) REGARDING TOWNSHIP-OWNED LAND SET ASIDE FOR HUNTING, WHICH IMMEDIATELY FOLLOWED THIS SECTION, WAS REPEALED 5-2-2010 BY ORD. NO. 126-15 (1).

WATER FACILITY RESTRICTIONS: SWIMMING, NO BATH, POOL, LAKE OR FOUNTAIN IN ANY PARK SHALL BE FOLDED BY STONE, WOOD OR ANY OTHER SUBSTANCE OR WASTE MATERIALS FOR SHALL ANY SUCH FACILITIES BE USED FOR SWIMMING, BATHING, FISHING, BOATING OR OTHER RECREATIONAL ACTIVITY. PERSONS WHOSE BOATING SHALL PRECLUDE THE TOWNSHIP FROM DISSENTING ANY BODY OF WATER AS SUITABLE FOR SWIMMING OR UNAUTHORIZED BOATING, SUBJECT TO ITS BEING POSTED BY THE TOWNSHIP AS APPROVED FOR SUCH USE.

INTOXICATING BEVERAGES PROHIBITED: THE POSSESSION OR USE OF ALCOHOLIC BEVERAGES IN ANY PARK IS PROHIBITED EXCEPT IF THE SALE, POSSESSION, OR USE OF ALCOHOLIC BEVERAGES IS SPECIALLY AUTHORIZED BY RESOLUTION OF THE BOARD OF SUPERVISORS FOR TOWNSHIP FUNCTIONS ONLY.

RESTRICTION ON FEES: NO PERSON SHALL ALLOW ANY ANIMAL OWNED BY HIM, HIS CLUSTERY OR UNDER HIS CONTROL, TO RUN AT LARGE IN ANY PARK PROVIDED THAT A DAILY LICENSED DOG, WHEN RESTRAINED BY A LEASH AND EXERCISED IN A LEASH, MAY BE BROUGHT INTO THE PARKS WHEN IN THE CUSTODY OR CONTROL OF ITS OWNER OR ARCHER. ANY ANIMAL NOT LEASHED IN A LEASH AND EXERCISED IN A LEASH, SHALL BE BROUGHT INTO THE PARKS AT THE DISCRETION OF THE TOWNSHIP. THE TOWNSHIP SHALL BE RESPONSIBLE TO COVER THE COSTS OF POTENTIAL DAMAGES TO TOWNSHIP PROPERTY ARISING FROM THE USE OF THE DESIGNATED FACILITIES AND A NON-TRANSFERABLE FACILITIES CONTRACT TO REIMBURSE THE TOWNSHIP FOR THE ADDITIONAL MAINTENANCE COSTS ASSOCIATED WITH THE USE OF THE FACILITIES.

ADDITIONAL REGULATIONS: THE PARK BOARD SHALL HAVE THE AUTHORITY TO ESTABLISH SUCH ADDITIONAL RULES AND REGULATIONS, FROM TIME TO TIME, AS APPROVED BY THE SUPERVISORS. SUCH REGULATIONS SHALL BECOME EFFECTIVE WHEN APPROVED BY RESOLUTION DAILY ACCORDING TO THE SUPERVISORS, WITHOUT THE NECESSITY OF INCLUSION IN THIS CHAPTER.

PASSIVE PARK RESTRICTIONS: NO PARK DESIGNATED BY THE PARK BOARD AS A "PASSIVE" PARK SHALL BE USED FOR ANY ACTIVITIES PERMITTED ONLY IN PARKS DESIGNATED AS "ACTIVE" PARKS. PROVIDED, HOWEVER, A CIVIL AND/OR HOMEOWNERS ASSOCIATION MAY PERIODICALLY REQUEST PERMISSION FOR THE USE OF A PASSIVE PARK FROM THE PARK BOARD FOR ORGANIZED ACTIVITIES, SUCH AS PONDS, PARADES AND SIMILAR ACTIVITIES. TOWNSHIP SPONSORED EVENTS AND ACTIVITIES MAY BE HELD IN ANY PASSIVE PARK.

X:\17030.00\Hershey Mill Dam Park_CD\DWG\ACTIVE\Sheet_Skulls_Site_Details.dwg Plot Date: 9/17/2019 5:10 PM. Plotted By: Melissa Batty

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SIMONE COLLINS LANDSCAPE ARCHITECTURE
 1100 W. MARKET ST., SUITE 200
 HERSHEY, PA 17033
 WWW.SIMONECOLLINS.COM

NO.	DESCRIPTION	DATE	BY
REVISIONS			

DESIGNED	CADD	SCALE
SRL	MB	AS SHOWN
DRAWN	CHECKED	APPROVED
MB	PS	PS



EAST GOSHEN TOWNSHIP
 CHESTER COUNTY, PENNSYLVANIA

DECOMMISSIONING OF
 HERSHEY'S MILL DAM

PROPOSED CONDITIONS
 LANDSCAPE PLAN
 SITE DETAILS

JOB NO.	SHEET NO.
60466	L5
DATE	DRAWING NO.
SEPT 2019	30 OF 34

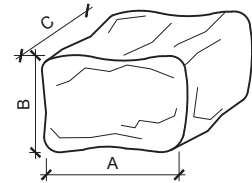
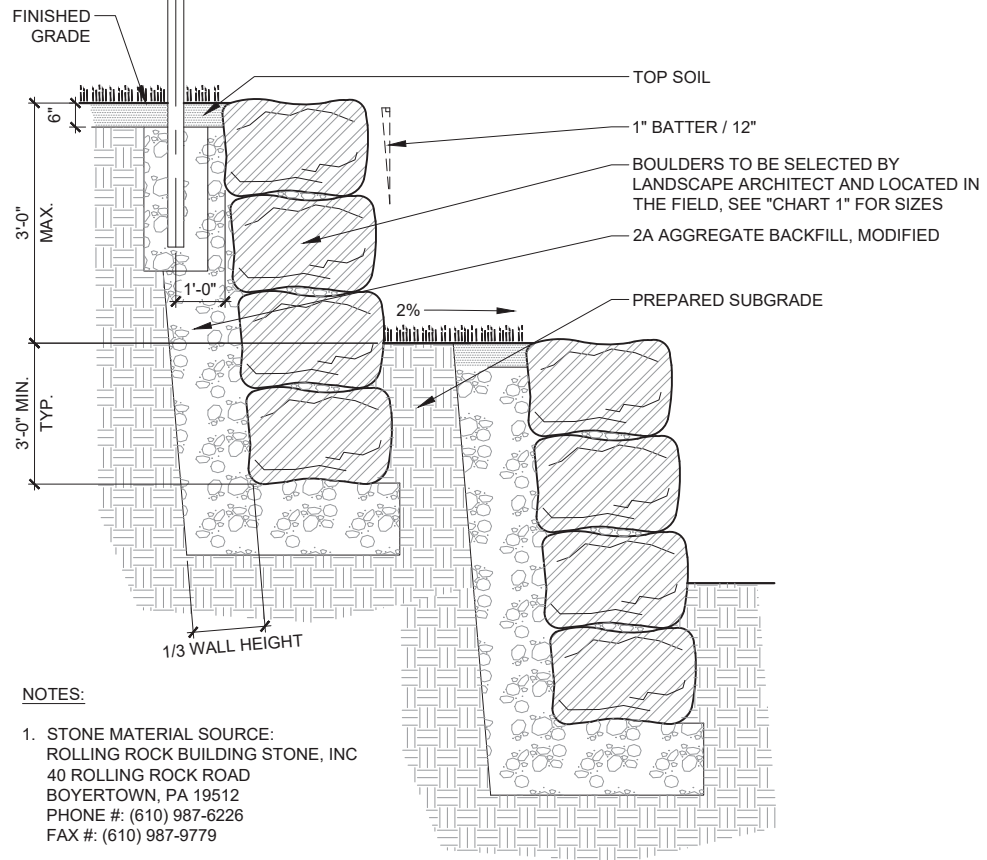


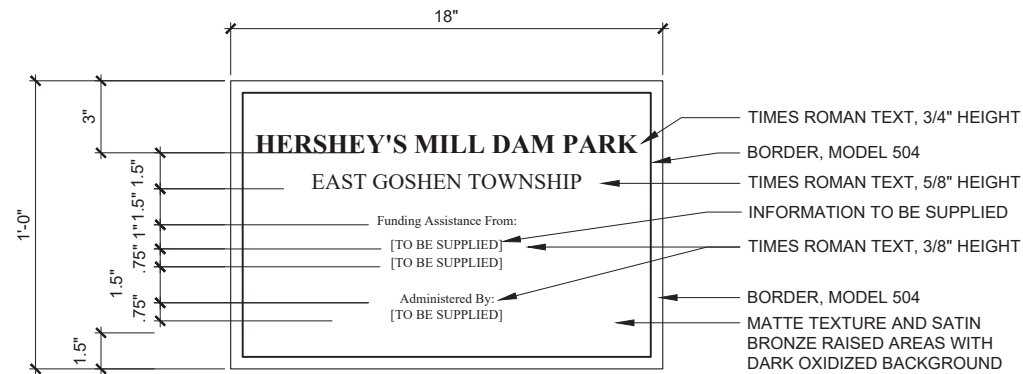
CHART 1: BOULDER DIMENSIONS		
	MIN.	MAX.
A	2'-0"	3'-0"
B	1'-0"	3'-0"
C	2'-0"	5'-0"



NOTES:

- STONE MATERIAL SOURCE:
ROLLING ROCK BUILDING STONE, INC
40 ROLLING ROCK ROAD
BOYERTOWN, PA 19512
PHONE #: (610) 987-6226
FAX #: (610) 987-9779

1
L6 BOULDER WALL
1/2" = 1'-0"



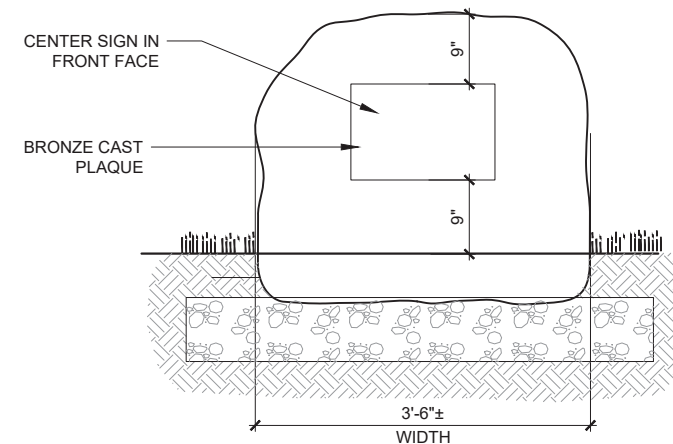
SIGN CONTENTS

SCALE: 3"=1'-0"

NOTES:

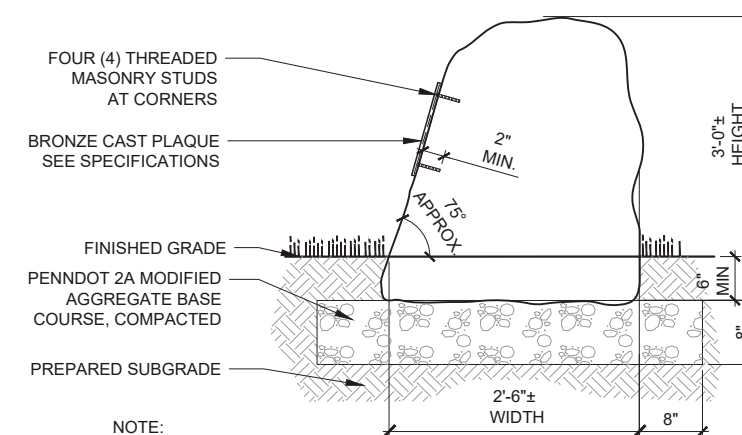
- ALL TEXT TIMES NEW ROMAN AND RAISED 1/16" HEIGHT.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS & COLOR / FINISH SAMPLES FOR PLAQUE FOR APPROVAL BY TOWNSHIP REPRESENTATIVE PRIOR TO INSTALLATION.
- MANUFACTURER: ARK RAMOS ARCHITECTURAL SIGNAGE SYSTEMS, OKLAHOMA CITY, OKLAHOMA, 1-800-725-7266, OR APPROVED EQUAL.
- ORDER MATERIALS ALLOWING SUFFICIENT LEAD TIME FOR SHIPPING TO AVOID DELAYING WORK. INSPECT UPON ARRIVAL ALL MATERIALS TO VERIFY ITEMS SHIPPED ARE CORRECT AS ORDERED AND INTACT.
- PROVIDE FULL SIZE PAPER MOUNTING TEMPLATE SHOWING HOLE PLACEMENT LOCATION OF MOUNTING HOLES IN CONCRETE.

2
L6 DCNR BOULDER SIGN
3" = 1'-0"



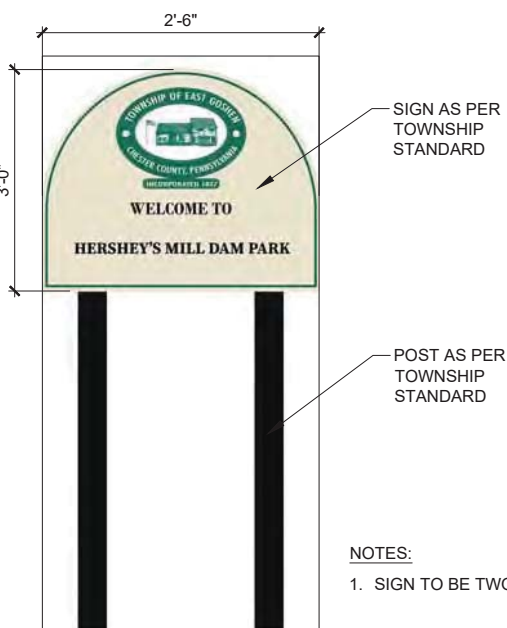
ELEVATION/FRONT VIEW

SCALE: 1"=1'-0"



SECTION / SIDE VIEW

NOTE:
BOULDER TO BE APPROVED BY TOWNSHIP REPRESENTATIVE PRIOR TO INSTALLATION



NOTES:

- SIGN TO BE TWO SIDED.

3
L6 PARK SIGN
1" = 1'-0"

X:\17030.00\Hershey Mill Dam Park_CD\DWG\ACTIVE\Sheet Set\L6 SITE DETAILS.dwg
Plot Date: 9/17/2019 5:10 PM, Plotted By: Melissa Bailey

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NO.	DESCRIPTION	DATE	BY
REVISIONS			

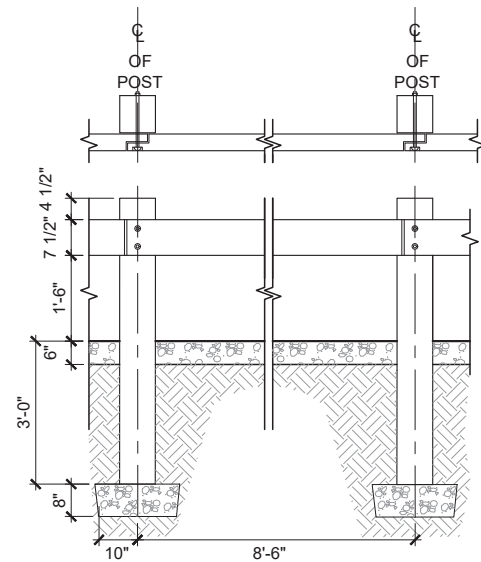
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SRL	MB	AS SHOWN
DRAWN	CHECKED	APPROVED
MB	PS	PS



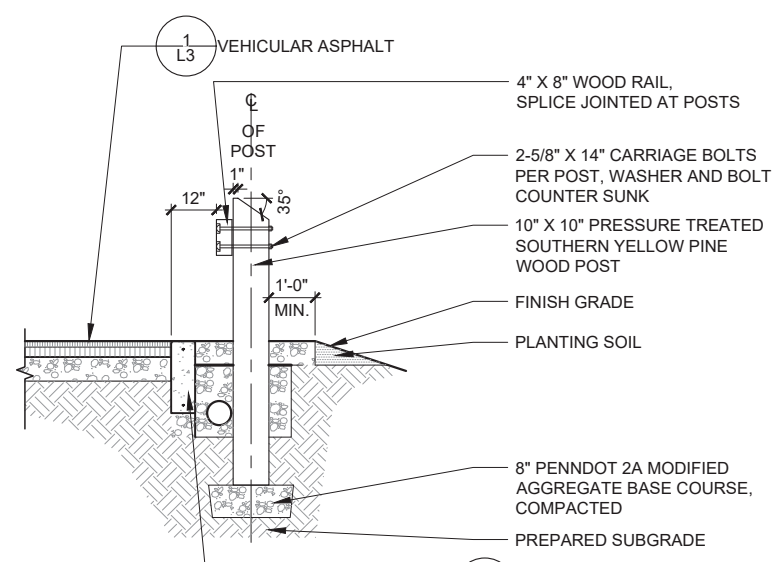
EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

PROPOSED CONDITIONS
LANDSCAPE PLAN
SITE DETAILS

JOB NO.	SHEET NO.
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DATE	DRAWING NO.
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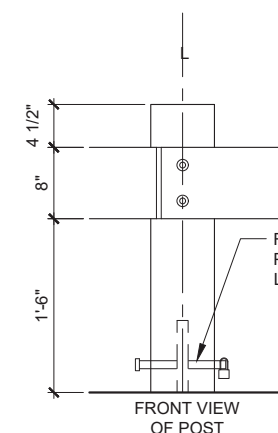
PLAN AND ELEVATION



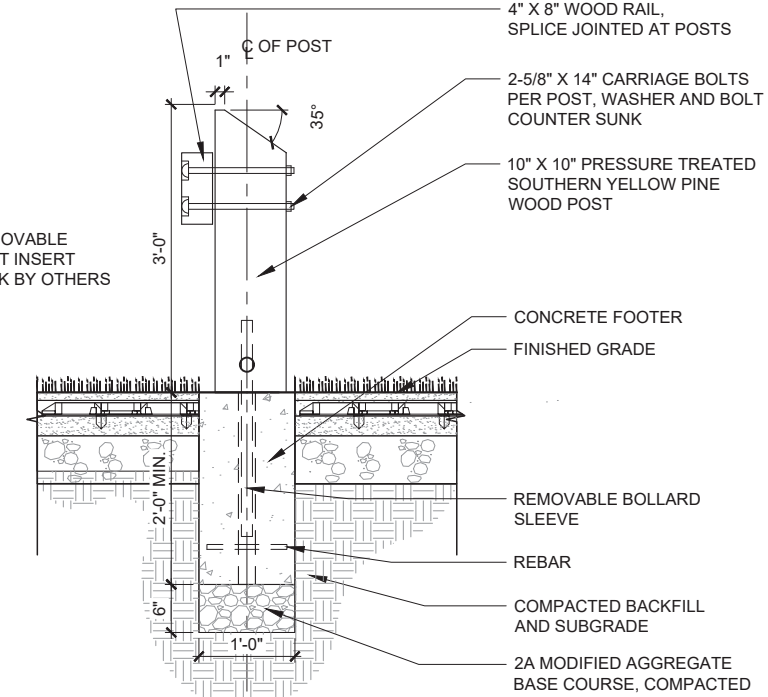
SECTION

1
L7
1/2" = 1'-0"

TIMBER GUIDE RAIL



FRONT VIEW OF POST

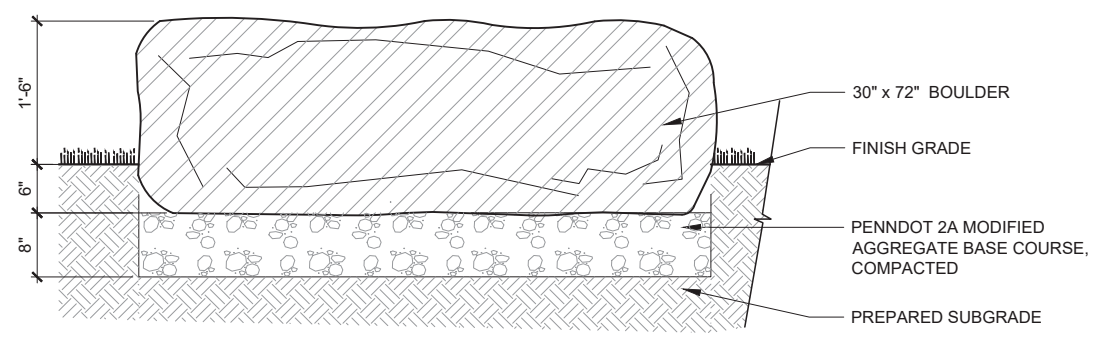


NOTES:

1. PROVIDE SHOP DRAWINGS OF SIGN FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO INSTALLATION

2
L7
1" = 1'-0"

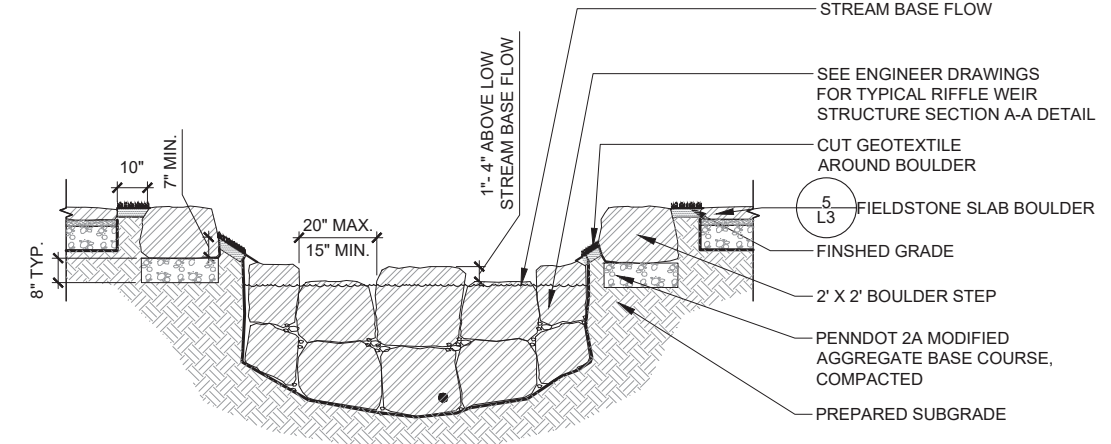
REMOVABLE GUIDERAIL POST



NOTES:
1. STONE MATERIAL SOURCE:
ROLLING ROCK BUILDING STONE, INC.
40 ROLLING ROCK ROAD
BOYERTOWN, PA 19512
PHONE #: (610) 987-6226; FAX#: (610) 987-9779

3
L7
1" = 1'-0"

LARGE BOULDER



4
L7
3/8" = 1'-0"

STREAM STEPPING STONE CROSSING

X:\17030.00\Hershey Mill Dam Park_CD\DWG\ACTIVE\Sheet Set\L7 SITE DETAILS.dwg
Plot Date: 9/17/2019 5:11 PM, Plotted By: Melissa Barney

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NO.	DESCRIPTION	DATE	BY

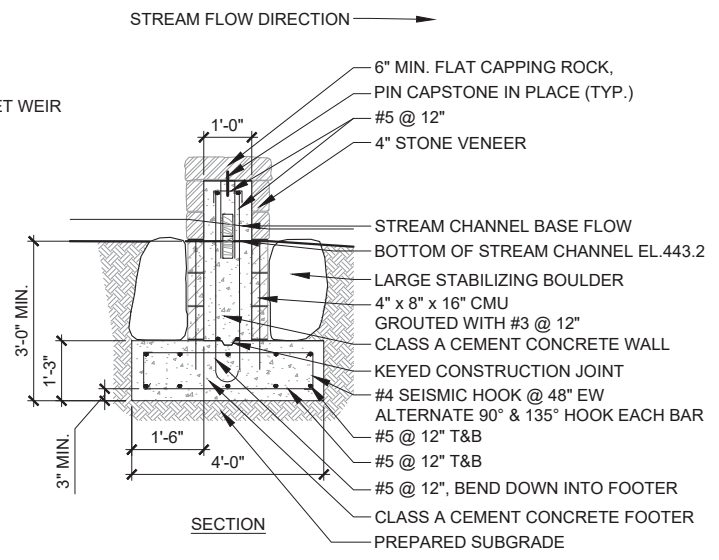
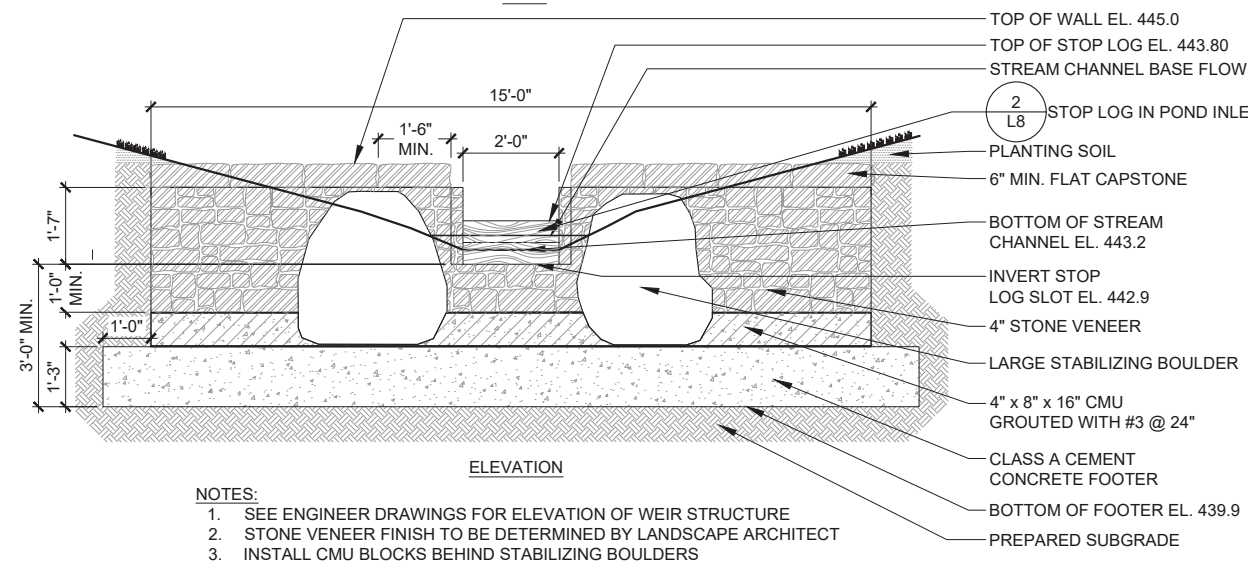
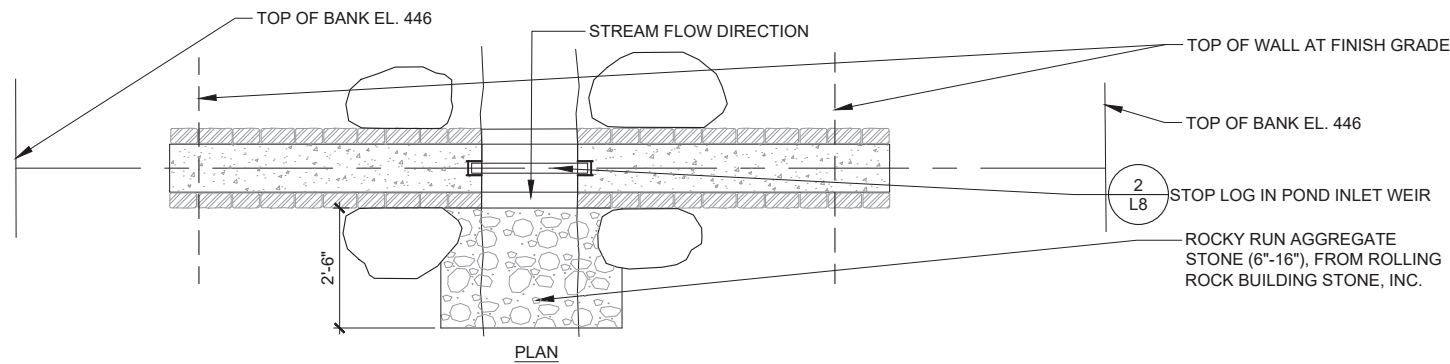
DESIGNED	CADD	SCALE
SRL	MB	AS SHOWN
DRAWN	CHECKED	APPROVED
MB	PS	PS



EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
DECOMMISSIONING OF
HERSHEY'S MILL DAM

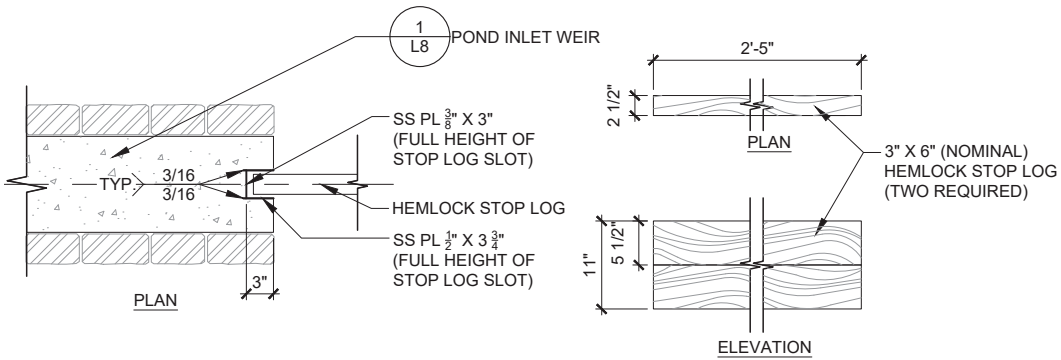
PROPOSED CONDITIONS
LANDSCAPE PLAN
SITE DETAILS

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- NOTES:**
- SEE ENGINEER DRAWINGS FOR ELEVATION OF WEIR STRUCTURE
 - STONE VENEER FINISH TO BE DETERMINED BY LANDSCAPE ARCHITECT
 - INSTALL CMU BLOCKS BEHIND STABILIZING BOULDERS

1 L8 POND INLET WEIR
1/2" = 1'-0"



2 L8 STOP LOG IN POND INLET WEIR
1" = 1'-0"

X:\17030.00\Hershey Mill Dam Park_CD\DWG\ACTIVE\Sheet Set\L8 SITE DETAILS.dwg
Plot Date: 9/17/2019 5:11 PM, Plotted By: Melissa Bailey

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NO.	DESCRIPTION	DATE	BY
REVISIONS			

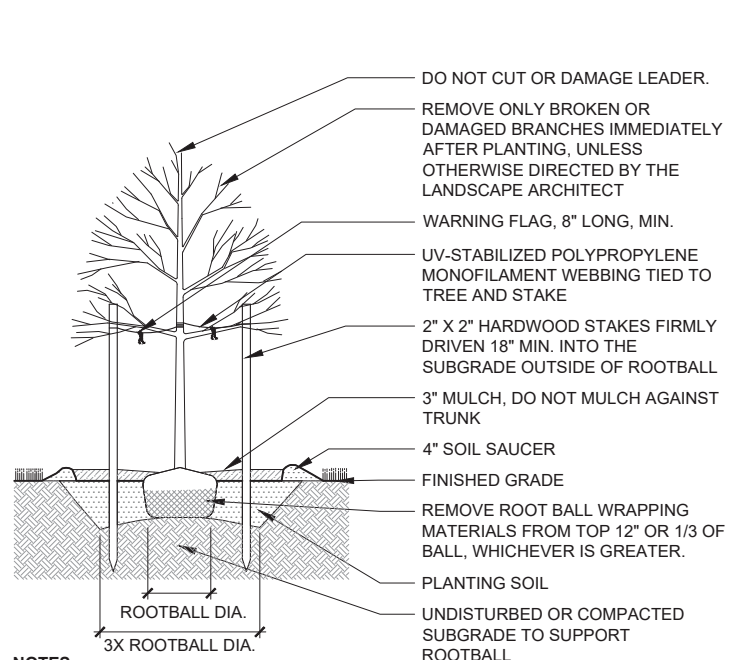
DESIGNED	CADD	SCALE
SRL	MB	AS SHOWN
DRAWN	CHECKED	APPROVED
MB	PS	PS



EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
**DECOMMISSIONING OF
HERSHEY'S MILL DAM**

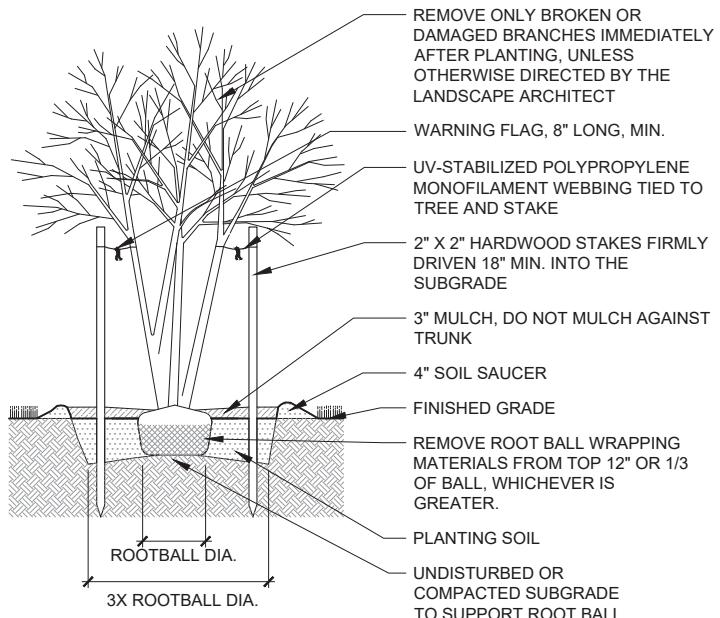
**PROPOSED CONDITIONS
LANDSCAPE PLAN
SITE DETAILS**

JOB NO.	SHEET NO.
60466	L8
DATE	DRAWING NO.
SEPT 2019	33 OF 34



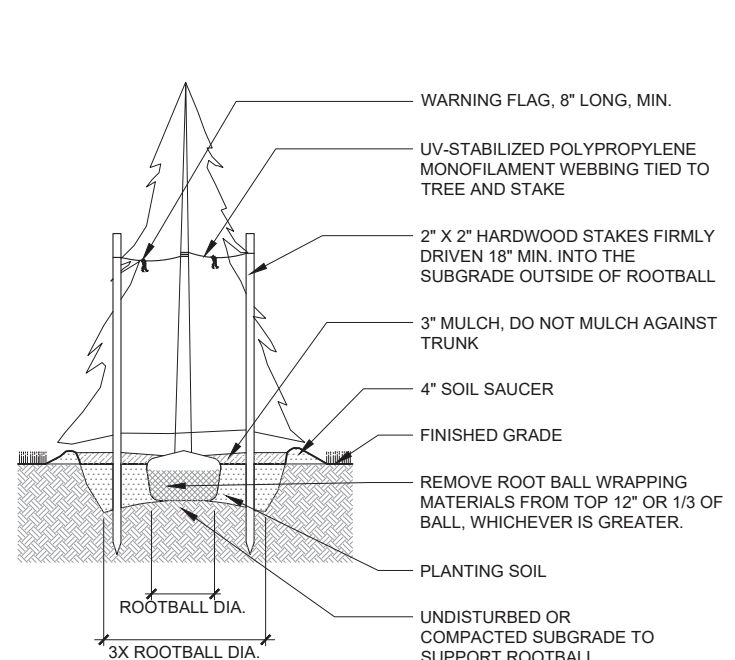
- NOTES:**
1. STAKE TREES ONLY WHEN CONDITIONS REQUIRE ADDITIONAL STABILIZATION, AS DESCRIBED IN SPECIFICATIONS.
 2. SET TOP OF BALL 2" - 3" ABOVE FINISHED GRADE. DO NOT BACKFILL OVER TOP OF ROOTBALL.
 3. REMOVE ROOT BALL WRAPPING MATERIALS (BURLAP, TWINE, WIRE BASKET, ETC) AFTER TREE IS SET IN PLACE. SYNTHETIC WRAPPING MUST BE REMOVED COMPLETELY.
 4. DO NOT PULL MONOFILAMENT WEBBING TIGHT. LEAVE SLIGHTLY SLACK TO ALLOW TREE TO SWAY IN THE WIND.
 5. SCARIFY EDGES OF TREE PIT.

1 DECIDUOUS TREE PLANTING
 1/2" = 1'-0"



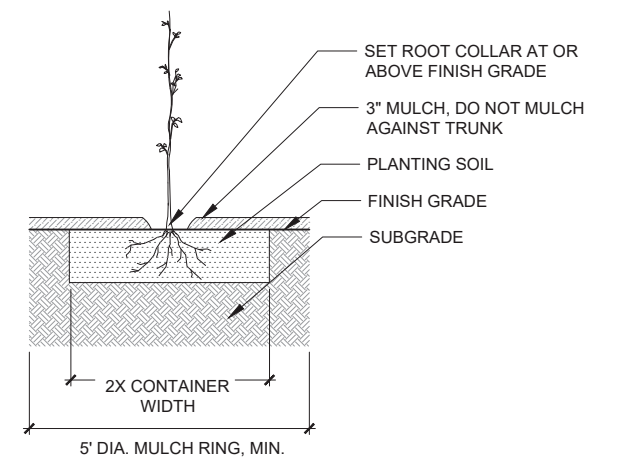
- NOTES:**
1. SET TOP OF BALL 2" - 3" ABOVE FINISHED GRADE. DO NOT BACKFILL OVER TOP OF BALL.
 3. REMOVE ROOT BALL WRAPPING MATERIALS (BURLAP, TWINE, WIRE BASKET, ETC) AFTER TREE IS SET IN PLACE. SYNTHETIC WRAPPING MUST BE REMOVED COMPLETELY.
 4. DO NOT PULL MONOFILAMENT WEBBING TIGHT. LEAVE SLIGHTLY SLACK TO ALLOW TREE TO SWAY IN THE WIND.
 5. SCARIFY EDGES OF TREE PIT.
 6. FOR TREE WITH 3 OR MORE TRUNKS, SET STAKES IN TRIANGULAR CONFIGURATION

2 MULTISTEM TREE PLANTING
 1/2" = 1'-0"



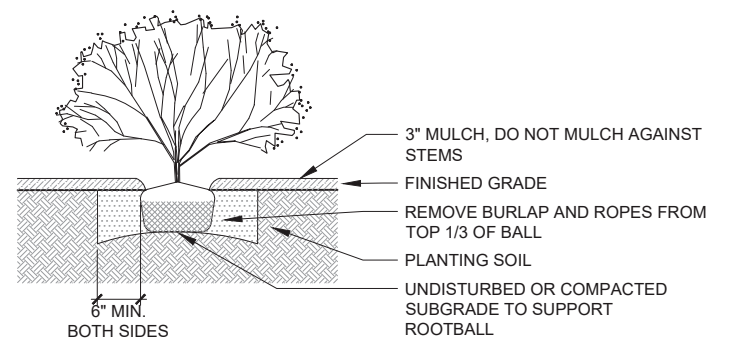
- NOTES:**
1. SET TOP OF ROOT BALL 2" - 3" ABOVE FINISH GRADE. DO NOT BACKFILL OVER TOP OF BALL.
 3. REMOVE ROOT BALL WRAPPING MATERIALS (BURLAP, TWINE, WIRE BASKET, ETC) AFTER TREE IS SET IN PLACE. SYNTHETIC WRAPPING MUST BE REMOVED COMPLETELY.
 4. DO NOT PULL MONOFILAMENT WEBBING TIGHT. LEAVE SLIGHTLY SLACK TO ALLOW TREE TO SWAY IN THE WIND.
 5. SCARIFY EDGES OF TREE PIT.

3 EVERGREEN TREE PLANTING
 1/2" = 1'-0"



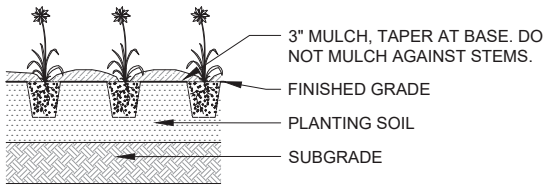
- NOTES:**
1. REMOVE CONTAINER BEFORE PLANTING
 2. REMOVE CONTAINER GROWING MEDIUM FROM TREE ROOTS BEFORE PLANTING
 3. SCARIFY EDGES OF TREE PIT.

4 TREE SEEDLING PLANTING
 1/2" = 1'-0"



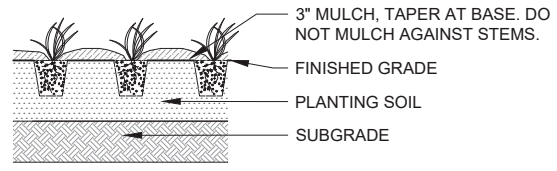
- NOTES:**
1. SET TOP OF BALL 3" ABOVE FINISHED GRADE.
 2. SCARIFY EDGES OF PLANTING PIT.

5 SHRUB PLANTING
 1/2" = 1'-0"



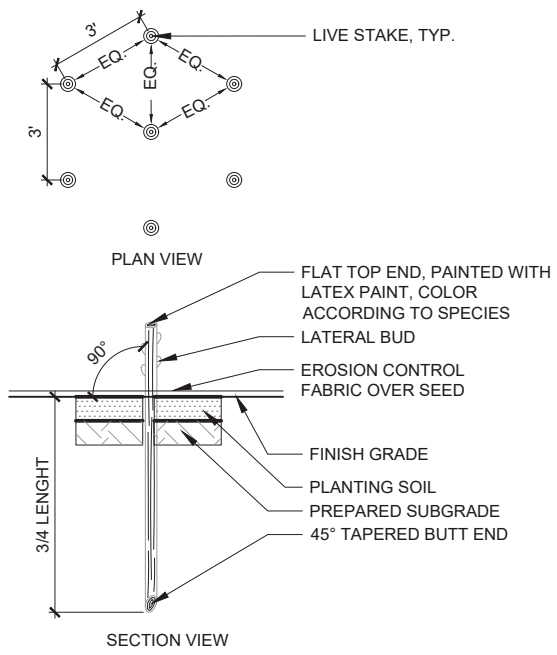
- NOTES:**
1. PLANT SPACING AS PER PLANTING PLAN AND PLANT SCHEDULE.
 2. REMOVE CONTAINER BEFORE PLANTING.

6 PERENNIAL PLANTING
 1/2" = 1'-0"



- NOTE:**
1. PLANT SPACING AS PER PLANTING PLAN AND PLANT SCHEDULE.

7 HERBACEOUS PLUG PLANTING
 1/2" = 1'-0"



8 LIVE STAKE
 1" = 1'-0"

- NOTES:**
1. LIVE STAKES ARE TO BE DORMANT LIVE BRANCHES MEASURING 24 TO 36 INCHES, WITH BASAL END DIAMETERS OF 1/2 TO 2 INCHES, WITH NO SIDE BRANCHES.
 3. BUTT ENDS OF STAKE SHALL BE ANGLED AT 45 DEGREES.
 4. IF FIELD COLLECTED, LIVE STAKES SHALL BE CUT FROM APPROVED SOURCES USING A SHARP TOOL AND AVOIDING DAMAGE TO THE COLLECTION SITE. BRANCHES SHALL BE FLEXIBLE, FREE FROM DISEASE OR EXCESS DEAD TWIGS, AND MUST BE DORMANT.
 5. ALL SIDE BRANCHES SHALL BE CLEANLY CUT FROM LIVE STAKES.
 6. SOAK LIVE STAKES IN WATER FOR 24 HOURS PRIOR TO PLANTING. DO NOT SUBMERGE PAINTED TOPS. PROTECT STAKES FROM SUN AND WIND EXPOSURE DURING SOAKING.
 7. TO PLANT STAKES, DRILL A PILOT HOLE THROUGH THE EROSION CONTROL FABRIC AND INTO THE GROUND USING A STEEL ROD OR REBAR. TAMP STAKES INTO HOLE USING A SAND- OR SHOT-FILLED HAMMER. SPLIT OR DAMAGED STAKES MUST BE REMOVED AND REPLACED. FIRMLY PACK SOIL AROUND STAKES AFTER INSTALLATION.

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 Plot Date: 9/17/2019 5:11 PM. Plotted By: Melissa Estay

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 CHESTER COUNTY, PENNSYLVANIA
 DECOMMISSIONING OF
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 LANDSCAPE PLAN
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