TAYLOR CREEK
STREAM RESTORATION
BID NO. XXXXX
WATERSHED PROTECTION AND RESTORATION OFFICE
HARFORD COUNTY, MARYLAND

BEFORE YOU DIG CALL
1-800-257-7777 OR DIAL 811

MISS UTILITY
CALL BEFORE YOU DIG

GENERAL NOTES

1. SPECIFICATIONS: ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH MARYLAND STATE HIGHWAY ADMINISTRATIONS STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS LATEST EDITION AND ANY ADDENDA THERETO.

2. UTILITIES: UTILITY LOCATIONS SHOWN ON THE PLANS ARE BASED ON LIMITED INFORMATION AVAILABLE. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF THIS INFORMATION. THE COST OF REPAIR OR REPLACEMENT OF ANY SUCH FACILITIES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE BORNE BY HIM/HER.

   CONTACT "MISS UTILITY" PHONE 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THERE SHOULD BE NO EXCAVATION UNTIL THE LOCATIONS OF UNDERGROUND UTILITIES HAVE BEEN DETERMINED.

3. STANDARD DETAILS: REFERENCE MADE TO STANDARDS ARE TAKEN FROM THE HARFORD COUNTY ROAD CODE "BOOK OF STANDARD DETAILS" AND FROM "THE MARYLAND STATE HIGHWAY ADMINISTRATION'S BOOK OF STANDARDS-HIGHWAY AND INCIDENTAL STRUCTURES", IT WILL BE THE CONTRACTOR'S RESPONSIBILITY THAT THE STANDARD DRAWINGS IN HIS/HER POSSESSION ARE THE LATEST REVISED STANDARDS UP TO AND INCLUDING THE DATE OF THE ADVERTISEMENT OF THIS CONTRACT.

4. RIGHT-OF-WAY LINES: RIGHT-OF-WAY LINES SHOWN ON THESE PLANS WERE BASED ON BEST AVAILABLE PLAT AND DEED RECORDS AND HARFORD COUNTY CADASTRAL GIS DATA. NO BOUNDARY SURVEY WAS COMPILED, THEREFORE, THESE LINES DO NOT REPRESENT THE OFFICIAL PROPERTY ACQUISITION LINES. FOR OFFICIAL FEE RIGHT-OF-WAY AND EASEMENT INFORMATION, SEE THE APPROPRIATE RIGHT-OF-WAY PLATS.

5. SOIL CONSERVATION: THE CONTRACTOR SHALL NOT DISTURB THE EXISTING VEGETATION OUTSIDE THE LIMITS OF DISTURBANCE. STOCKPILING AND STAGING WILL NOT BE ALLOWED ON SITE, THE CONTRACTOR MUST SECURE AN OFF-SITE AREA AND ANY NECESSARY PERMITS. SOIL STABILIZATION WILL CONFORM TO 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. THE CONTRACTOR WILL OBTAIN APPROVAL OF THE HARFORD COUNTY SOIL CONSERVATION DISTRICT FOR HIS/HER PLANS IN CONTROLLING SEDIMENT EROSION FOR THE BORROW AREA AND DISPOSING OF ANY WASTE EXCAVATION.

6. EXISTING MAILBOXES AND EXISTING SIGNS: ALL EXISTING MAILBOXES, SIGNS AND PAPER BOXES DISTURBED DURING CONSTRUCTION SHALL BE TEMPORARILY RESET IMMEDIATELY AND PERMANENTLY RESET AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE INCIDENTAL TO ALL OTHER ITEMS IN THE CONTRACT.

7. SURVEYS:

   TOPOGRAPHIC SURVEY PERFORMED BY BAYLAND CONSULTANTS & DESIGNERS, INC., DATED MARCH 2023.

   HORIZONTAL AND VERTICAL CONTROL ESTABLISHED FROM REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) CONTROL POINTS. TRAVERSE POINTS ARE IRON REBAR UNLESS OTHERWISE SPECIFIED. COORDINATES AND BEARINGS SHOWN HEREON ARE REFERRED TO THE MARYLAND COORDINATE SYSTEM (NAD83/1991). ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88).

INT	NORTHING	EASTING	ELEVATION	DESCRIPTION
TPS1	639,408.44	1,495,452.91	60.16	MAG/DISK
TPS2	639,039.55	1,495,676.40	68.80	MAG/DISK
TPS3	637,165.39	1,494,657.28	17.51	MAG/DISK
TPS4	637,498.66	1,495,004.69	23.02	REBAR W/ YELLOW CAP
TPS5	637,747.42	1,495,072.33	31.20	REBAR W/ YELLOW CAP
TPS6	637,964.24	1,495,221.17	29.58	REBAR W/ YELLOW CAP
TPS7	638,165.21	1,495,193.93	25.13	REBAR W/ YELLOW CAP
TPS8	638,430.79	1,495,167.25	30.20	REBAR W/ YELLOW CAP
TPS9	638,653.96	1,495,194.34	35.88	REBAR W/ YELLOW CAP
TPS10	638,870.79	1,495,217.99	41.00	REBAR W/ YELLOW CAP
TPS11	639,209.59	1,495,206.36	52.44	REBAR W/ YELLOW CAP

   ONLY THOSE CONTROL POINTS SHOWN ON THESE PLANS ARE TO BE USED FOR THE CONSTRUCTION OF THIS PROJECT.

8. CONTOURS AND PLANIMETRICS SHOWN OUTSIDE OF LIMIT OF FIELD RUN SURVEY ARE BASED ON 2020 MARYLAND LIDAR ONE FOOT INTERVAL TOPOGRAPHY AND 2017, 2018, 2019, 2022 AND 2023 HARFORD COUNTY GIS DATA.

9. ONLY TREES WITH A 12" DIAMETER OR GREATER WITHIN THE STUDY AREA WERE FIELD LOCATED AND ARE SHOWN ON THE PLANS.

10. WETLAND DELINEATION WAS PERFORMED BY BAYLAND CONSULTANTS AND DESIGNERS, INC DATED MARCH 2023. WETLANDS AND ASSOCIATED BUFFERS OUTSIDE OF LIMIT OF WORK ARE NOT SHOWN ON PLANS.

11. FEMA FIRM PANEL #24025C0261E EFFECTIVE APRIL 9, 2016 SHOWS THAT THE PROJECT SITE IS NOT WITHIN THE 100-YEAR FLOODPLAIN LIMITS.

12. TAYLOR CREEK IS A TRIBUTARY TO THE GUNPOWDER RIVER (MD WATERSHED BASIN CODE 02-13-08-01) WHICH IS A USE 1 STREAM WITH STREAM CLOSURE PERIOD FROM MARCH 1ST THROUGH JUNE 15TH.

13. THE PROJECT SITE IS NOT WITHIN THE CRITICAL AREA.

PROJECT SUMMARY

TOTAL LENGTH OF STREAM RESTORED: 3,553 LF
STREAM USE CLASS: I
STREAM CLOSURE PERIOD: MARCH 1ST THROUGH JUNE 15TH

THIS PROJECT CONSISTS OF 3,553 LF OF STEAM RESTORATION INTENDED TO MEET THE REQUIREMENTS OF THE COUNTY'S MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PERMIT. NO NEW IMPERVIOUS AREA IS PROPOSED, NO EXISTING IMPERVIOUS AREA IS BEING REDEVELOPED AND SITE DRAINAGE PATTERNS ARE MAINTAINED, THEREFORE, CONVENTIONAL STORMWATER MANAGEMENT IS NOT REQUIRED FOR THE SITE.

PROPOSED STREAM RESTORATION	STREAM LENGTH (LF)	POLLUTANT REDUCTION CREDITS			IMPERVIOUS AREA TREATED (ACRES)
		TN (LBS/YR)	TP (LBS/YR)	TSS (TONS/YR)	
	3,553	1,270.0	346.7	770.2	139.1*

* ACCOUNTING FOR STORMWATER WASTELOAD ALLOCATIONS AND IMPERVIOUS ACRES TREATED (VERSION DATE IS NOVEMBER 2021)

INDEX OF SHEETS

LOCATION MAP
SCALE: 1"=600'

LEGEND

TRAVERSE POINT TPS# 2
EX. PROPERTY LINE
EX. EASEMENT LINE
EX. MAJOR CONTOUR 22
EX. MINOR CONTOUR 24
EX. ROAD
EX. TREELINE
EX. STORM DRAIN, INLET, & MANHOLE EX. 12" SD
EX. BUILDING
EX. SANITARY SEWER & MANHOLE EX. 12" SS EX. 12" SS
EX. RIPRAP TO REMAIN
EX. PERENNIAL WATERS OF THE US (WUS) DELINEATED BY BAYLAND
EX. INTERMITTENT WATERS OF THE US (WUS) DELINEATED BY BAYLAND
EX. EPHEMERAL WATERS OF THE US (WUS) DELINEATED BY BAYLAND

EX. UTILITY POLE
EX. WOODEN FOOT BRIDGE
EX. TREE DBH 12" TO 29.9" TR 1
EX. TREE DBH 12" TO 29.9" TO BE REMOVED TR 1
EX. SPECIMEN TREE DBH GREATER THAN OR EQUAL TO 30" TR 1
EX. SPECIMEN TREE DBH GREATER THAN OR EQUAL TO 30" TO BE REMOVED TR 1
EX. NON-TIDAL WETLAND
EX. 25' NON-TIDAL WETLAND BUFFER NB
SOIL BORING LOCATION B-1
EX. GUY WIRE
LIMIT OF FIELD RUN TOPOGRAPHY
EX. CHAINLINK FENCE
EX. OVERHEAD ELECTRICAL WIRE OHE
PR. BASEFLOW CHANNEL
PR. CLAY CHANNEL BLOCK

EX. 100-YEAR FLOODPLAIN BOUNDARY DELINEATED BY BAYLAND
PR. 100-YEAR FLOODPLAIN BOUNDARY DELINEATED BY BAYLAND
PR. ALIGNMENT 0+00 0+15
PR. LIMIT OF DISTURBANCE LOD
EX. THALWEG
EX. DRAINAGE AREA
EX. SOIL BOUNDARY
EX. TC PATH
PR. MAJOR CONTOUR 35
PR. MINOR CONTOUR 33
PR. SPOT SHOT EL. 32.0
PR. LOG GRADE CONTROL
PR. VALLEY WIDE GRADE CONTROL

PR. RIFFLE-WEIR
PR. RIPRAP PROTECTION

DEVELOPER'S/LANDOWNER'S CERTIFICATION

I/WE CERTIFY THAT ALL PROPOSED WORK SHOWN ON THESE CONSTRUCTION DRAWING(S) WILL BE ACCOMPLISHED PURSUANT TO THESE PLANS. I/WE ALSO UNDERSTAND THAT IT IS MY/OUR RESPONSIBILITY TO HAVE THE CONSTRUCTION SUPERVISED AND CERTIFIED, INCLUDING THE SUBMITTAL OF "AS-BUILT" PLANS WITHIN 30 DAYS OF COMPLETION, BY A REGISTERED PROFESSIONAL ENGINEER.

OWNER/DEVELOPER SIGNATURE _____ DATE _____

PRINTED NAME _____

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED BY ME, OR UNDER MY SUPERVISTION, AND MEETS THE MINIMUM STANDARDS OF THE HARFORD COUNTY DEPARTMENT OF PUBLIC WORKS AND/OR UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, AND/OR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION.

ENGINEER'S SIGNATURE _____ DATE _____

SEAN CRAWFORD 200966
PRINTED NAME MD PE REGISTRATION NO.

FIELD VERIFICATION

I HEREBY CERTIFY THAT I COMPLETED A FIELD VERIFICATION TO THE INFORMATION SHOWN ON THE PLANS APRIL 12, 2023 AND THAT THE INFORMATION SHOWN ON THE PLANS IS IN AGREEMENT WITH THE ACTUAL FIELD CONDITIONS.

ENGINEER'S SIGNATURE _____ DATE _____

SEAN CRAWFORD 200966
PRINTED NAME MD PE REGISTRATION NO.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILILTY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

ENGINEER'S SIGNATURE _____ DATE _____

PRINTED NAME _____ MD PE REGISTRATION NO.

HARFORD SOIL CONSERVATION DISTRICT
SMALL POND APPROVAL

DISTRICT OFFICIAL _____ DATE

TECHNICAL REVIEW FOR DISTRICT

HARFORD COUNTY DEPT. OF PUBLIC WORKS _____ DATE

Owner:

Prepared By :

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"Integrating Engineering and Environment"
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www.baylandinc.com

BAYLAND JOB NO. 4_4601

BILLING NO. XXXXXX

EG-SWMENG- XXXXXX-XXXX #XXXX

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 200966, EXPIRATION DATE: 01/16/2025.

S/C PLAN # N/A

GP # N/A

REVISIONS

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
TITLE SHEET

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS
SCALE : AS SHOWN
DATE : 05/30/23
DRAWING NO. GN-01 OF GN-03
SHEET NO. 1 OF 29

BID No.:
HCG DWG ID No.:
SCALE: 1inch

Z:\4_4601_TAYLOR_CREEK_STREAM_RESTORATION\CAD Files\Sheet Files\4_4601_COV01.dwg

SOIL BORING LOG

BORING B-1

DEPTH(ELEV.)	CLASSIFICATION
0.0' (60.0)	60.0 GROUND SURFACE
	DARK BROWN SILTY SAND W/ ORGANICS (SM)
1.0' (59.0)	
	BROWN SILTY SAND (SM)
3.5' (56.5)	
	GRAY/ORANGE SANDY LEAN CLAY (CL)
6.0' (54.0)	
	WHITE/ORANGE LEAN CLAY W/ SAND, WET (CL)
7.5' (52.5)	

BOTTOM EL. 52.5

SOIL BORING LOG

BORING B-2

DEPTH(ELEV.)	CLASSIFICATION
0.0' (52.0)	52.0 GROUND SURFACE
	DARK BROWN SILTY SAND W/ ORGANICS (SM)
1.0' (51.0)	
	BROWN POORLY GRADED SAND W/ SILT (SP-SM)
4.0' (48.0)	
	BROWN LEAN CLAY W/ SAND, MOIST (CL)
5.5' (46.5)	
	RED/WHITE LEAN CLAY, WET (CL)
7.5' (44.5)	

BOTTOM EL. 44.5

SOIL BORING LOG

BORING B-3

DEPTH(ELEV.)	CLASSIFICATION
0.0' (42.0)	42.0 GROUND SURFACE
	DARK BROWN SILTY SAND W/ ORGANICS (SM)
1.0' (41.0)	
	TAN/GRAY CLAYEY SAND (SC)
3.0' (39.0)	
	BROWN SANDY LEAN CLAY (CL)
4.5' (37.5)	
	RED/WHITE LEAN CLAY, WET (CL)
6.0' (36.0)	

BOTTOM EL. 36.0

SOIL BORING LOG

BORING B-4

DEPTH(ELEV.)	CLASSIFICATION
0.0' (31.0)	31.0 GROUND SURFACE
	DARK BROWN SILTY SAND W/ ORGANICS (SM)
1.0' (30.0)	
	BROWN SILTY SAND (SM)
3.0' (28.0)	
	BROWN SANDY LEAN CLAY, WET (CL)
4.0' (27.0)	

BOTTOM EL. 27.0

SOIL BORING LOG

BORING B-5

DEPTH(ELEV.)	CLASSIFICATION
0.0' (27.0)	27.0 GROUND SURFACE
	BROWN/RED CLAYEY SAND W/ ORGANICS (SC)
1.0' (26.0)	
	BROWN SANDY LEAN CLAY, MOIST (CL)
4.0' (23.0)	
	BROWN LEAN CLAY W/ SAND, WET (CL)
6.0' (21.0)	

BOTTOM EL. 21.0

SOIL BORING LOG

BORING B-6

DEPTH(ELEV.)	CLASSIFICATION
0.0' (24.0)	24.0 GROUND SURFACE
	DARK BROWN SILTY SAND W/ ORGANICS (SM)
2.0' (22.0)	
	BROWN LEAN CLAY W/ SAND, WET (CL)
4.0' (20.0)	

BOTTOM EL. 20.0

SOIL BORING LOG

BORING B-7

DEPTH(ELEV.)	CLASSIFICATION
0.0' (25.0)	25.0 GROUND SURFACE
	DARK BROWN SILTY SAND W/ ORGANICS (SM)
1.0' (24.0)	
	BROWN SANDY LEAN CLAY (CL)
3.0' (22.0)	
	DARK GRAY LEAN CLAY W/ SAND (CL)
5.0' (20.0)	
	GRAY LEAN CLAY, WET (CL)
6.0' (19.0)	

BOTTOM EL. 19.0

SOIL BORING LOG

BORING B-8

DEPTH(ELEV.)	CLASSIFICATION
0.0' (18.0)	18.0 GROUND SURFACE
	DARK BROWN SILTY SAND W/ ORGANICS (SM)
1.0' (17.0)	
	RED CLAYEY SAND (SC)
2.0' (16.0)	
	DARK GRAY CLAYEY SAND (SC)
4.0' (14.0)	
	GRAY/RED LEAN CLAY, WET (CL)
6.0' (12.0)	

BOTTOM EL. 12.0

SOIL CLASSIFICATION

SOIL SAMPLE NUMBER	DEPTH (FT)	LIQUID LIMIT (LL)	PLASTIC LIMIT (PL)	PLASTICITY INDEX (PI)	PERCENT PASSING NO. 200 SIEVE	USCS CLASSIFICATION
B-2	5.5-7.5	48	25	23	85	CL
B-4	3.0-4.0	26	17	9	58	CL
B-5	1.0-4.0	31	22	9	59	CL
B-8	2.0-4.0	23	11	12	47	SC

SOIL BULK DENSITY

SOIL SAMPLE NUMBER	DEPTH (FT)	BULK DENSITY (LBS/FT^3)	USCS CLASSIFICATION
B-1	6.0-6.5	99.26	--
B-3	2.5-3.0	91.14	--
B-4	3.0-4.0	103.01	CL
B-5	1.0-4.0	88.02	CL
B-6	3.0-3.5	88.02	--
B-8	2.0-4.0	104.25	SC

NOTES:
1. SOIL BORING LOGS ARE NOT TO SCALE.
2. BORING LAYERS IDENTIFIED IN THE SOIL CLASSIFICATION TABLE HAVE UNDERGONE LABORATORY TESTING AND FORMAL USCS CLASSIFICATION PROCEDURES. ALL OTHER BORING LOGS ARE BASED ON VISUAL FIELD CLASSIFICATION ONLY.
3. SOIL BORINGS WERE CONDUCTED BY BAYLAND IN SEPTEMBER 2022 AND APRIL 2023. THE CONDITIONS INDICATED BY SOIL BORINGS AS SPECIFIED ON THE CONTRACT DRAWINGS APPLY ONLY AT THE SPECIFIC LOCATION OF EACH BORING AT THE TIME THAT THE BORINGS WERE MADE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY CONDITIONS TO THEIR SATISFACTION. THE OWNER AND DESIGN CONSULTANTS ASSUME NO RESPONSIBILITY WHATSOEVER IN RESPECT TO THE SUFFICIENCY OF ACCURACY OF THESE INVESTIGATIONS, AND THERE IS NO WARRANTY OR GUARANTEE THAT CONDITIONS OTHER THAN THOSE IDENTIFIED BY THE SUBSURFACE INVESTIGATIONS WILL NOT BE ENCOUNTERED.

GENERAL GEOTECHNICAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBGRADE INSPECTIONS AND SOIL COMPACTION TESTING ASSOCIATED WITH THE PROPOSED WORK. THIS WORK SHALL BE COMPLETED BY OR UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER LICENSEDIN THE STATE OF MARYLAND, IF REQUESTED BY THE OWNER/DEVELOPER OR AS INDICATED ON THE APPROVED PLANS. THIS ENGINEER IS HEREON REFERRED TO AS THE GEOTECHNICAL ENGINEER AND SHALL BE FROM AN INDEPENDENT FIRM FROM THAT OF THE CONTRACTOR.
2. ALL FILL AREAS SHALL BE CLEANED OF ALL VEGETATION AND DEBRIS. STRIPPED OF ALL TOPSOIL, AND THEN SCARIFIED TO A MINIMUM DEPTH OF 12 INCHES PRIOR TO THE PLACEMENT OF FILL. FILL MATERIAL SHALL BE PLACED IN CONTROLLED LIFTS WITH A MAXIMUM THICKNESS OF 8" PRIOR TO COMPACTION THAT IS CONTINUOUS OVER THE ENTIRE AREA WHERE FILL IS TO BE PLACED. EACH LAYER OF FILL SHALL BE COMPACTED WITH THE MINIMUM NUMBER OF PASSES NECESSARY TO PRODUCE A FULL ASYMPTOTIC COMPACTION.
3. FOR STRUCTURAL AREAS, UNLESS OTHERWISE NOTED BY THE APPROVED PLANS, COMPACTION SHALL BE CARRIED OUT WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT TO A DRY DENSITY OF 95% OF THE MAXIMUM DENSITY (STANDARD PROCTOR DENSITY PER ASTM D-698 AND AASHTO METHOD T-99).
4. FOR VEGETATIVE AREAS, UNLESS OTHERWISE NOTED BY THE APPROVED PLANS, COMPACTION SHALL BE CARRIED OUT AT A LESS THAN OPTIMUM MOISTURE CONTENT (E.G., AT A WATER CONTENT OF LESS THAN 13% ON A SOIL HAVING AN OPTIMUM CONTENT OF 15%) TO A DRY DENSITY OF BETWEEN 80% AND 85% OF THE MAXIMUM DENSITY (STANDARD PROCTOR DENSITY PER ASTM D-698).
5. ALL SOILS USED IN FILL AND BACKFILL MUST BE MOISTENED OR AERATED TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT. WHERE THE SOIL LAYER IS TOO DRY, THE CONTRACTOR MUST APPLY WATER UNIFORMLY USING APPROVED EQUIPMENT TO INCREASE THE MOISTURE CONTENT TO WITHIN 2% OF THE OPTIMUM. WHERE THE SOIL LAYER IS TOO WET, THE CONTRACTOR MUST DRY THE SOILS BY PLOWING OR DISKING TO AERATE THE SOIL AND REDUCE THE MOISTURE CONTENT TO WITHIN 2% OF THE OPTIMUM.
6. IF THE EXISTING ONSITE MATERIAL IS ROCKY, THEN THE SAME CAN BE USED UP TO 9 INCHES BELOW THE FINAL ELEVATION OR SUBBASE. THE REMAINING FILL MUST BE SELECT EARTH FILL. SOFT SPOTS IDENTIFIED DURING COMPACTION SHALL BE UNDERCUT AND BACKFILLED APPROPRIATELY.
7. ALL SELECT EARTH FILL SHALL BE FREE FROM ORGANICS, FROZEN MATERIAL, AND ROCKS/STONES GREATER THAN 2 INCHES IN ANY DIMENSION. ALL FILL MATERIAL MUST BE FREE FROM WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL OR OTHER DELETERIOUS MATERIALS.
8. ALL IMPORTED FILL MATERIAL SHALL HAVE A MINIMUM DENSITY OF 105 POUNDS PER CUBIC FOOT FOR THE MAXIMUM DRY DENSITY ACCORDING TO AASHTO T-180, METHOD C AND SHALL NOT HAVE A LIQUID LIMIT GREATER THAN 30 NOR A PLASTICITY INDEX GREATER THAN 6 ACCORDING TO ASTM D-4318.ALL OTHER MATERIALS SHALL MEET THE REQUIREMENTS STATED IN CATEGORY 900 OF THE LATEST EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION (MSHA) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.
9. NRCS-MD POND CODE NO. 378 STANDARDS/SPECIFICATIONS (MD-378) SHALL SUPERSEDE THESE NOTES FOR ANY FILL SUBJECT TO MD-378 WHEN THESE NOTES ARE LESS STRINGENT AND/OR IN THE CASE OF CONFLICT. ANY REFERENCE TO THE ENGINEER IN THE MD-378 SHALL BE THE PROFESSIONAL ENGINEER WHO SIGNED AND SEALED THE DESIGN PLANS. ANY REFERENCE TO THE GEOTECHNICAL ENGINEER SHALL BE THE GEOTECHNICAL ENGINEER IN THESE GENERAL NOTES.
10. THE CONTRACTOR SHALL SUBMIT ALL REQUIRED PROCTOR DENSITY RESULTS OF TESTED FILL TO THE OWNER/DEVELOPER FOR REVIEW AND ACCEPTANCE. AT A MINIMUM, COMPACTION TESTS SHALL BE COMPLETED FOR EVERY LIFT OF FILL AND THE TESTING FREQUENCY SHALL BE AT COMPACTION TEST PER LIFT AND AT LEAST TWO COMPACTION TESTS PER DAY.THE GEOTECHNICAL ENGINEER SHALL SUPPLY THE OWNER/DEVELOPER WITH CERTIFIED COMPACTION TEST RESULTS, INCLUDING CERTIFICATION OF PIPE BEDDING SUBGRADE AND/OR FILL SUBGRADE, WHERE APPROPRIATE.
11. ALL REQUIRED INSPECTIONS, TESTS, SUPPORTING DATA, REPORTS, AND CERTIFICATIONS SHALL BE PROVIDED TO THE OWNER/DEVELOPER AND SHALL BE SIGNED AND SEALED BY THE GEOTECHNICAL ENGINEER. DAILY INSPECTION REPORTS, IF REQUESTED, MAY BE PROVIDED WITHOUT BEING IMMEDIATELY SIGNED AND SEALED BY THE GEOTECHNICAL ENGINEER. THESE REPORTS SHALL BE COMPILED, REVIEWED, SIGNED AND SEALED, AND SUBMITTED TO THE OWNER/DEVELOPER NO LATER THAN 30 DAYS AFTER THE COMPLETION OF THE PROJECT.

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HARFORD COUNTY STANDARD SPECIFICATIONS OR DETAILS FOR CONSTRUCTION UNLESS OTHERWISE NOTED. THE STATE HIGHWAY ADMINISTRATION'S HIGHWAY'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS AND THE BOOK OF STANDARDS FOR HIGHWAY & INCIDENTAL STRUCTURES SHALL BE USED IF NO HARFORD COUNTY STANDARD OR DETAIL EXIST.
2. THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO THEIR SATISFACTION PRIOR TO CONSTRUCTION. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS AND ANY DAMAGE TO THEM SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS OWN EXPENSE.
3. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 1-800-257-7777 A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION, BORING, PILE DRIVING AND/OR DIGGING FOR THE LOCATION OF GAS, ELECTRIC, TELEPHONE, WATER AND SEWER LINES.
4. MECHANICAL EXCAVATION SHALL NOT BE CONDUCTED WITHIN 3 FEET HORIZONTALLY OR WITHIN 2 FEET VERTICALLY OF KNOWN UTILITY LOCATIONS. HAND OR SOFT DIGGING SHALL BE DONE WITHIN THESE LIMITS. UNDERGROUND UTILITIES, ONCE UNCOVERED, SHALL BE PROTECTED FROM BEING STRUCK BY EQUIPMENT.
5. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLETE SUCH WORK.
6. NO TREES SHALL BE REMOVED UNLESS PRIOR APPROVAL IS OBTAINED OR EXPLICITLY SHOWN ON THE PLANS TO BE REMOVED. ALL TREES TO REMAIN WITHIN AND/OR NEAR THE WORK AREA SHALL BE PROTECTED AS NECESSARY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS TESTING INCLUDING CONCRETE, FLOWABLE FILL, HOT MIX ASPHALT AND FILL COMPACTION. ALL MATERIALS TESTING SHALL BE PERFORMED BY THE CONTRACTOR AND SHALL BE COMPENSATED FOR AS PART OF THE APPROPRIATE PAY ITEM.
8. ALL DISTURBED AREAS SHALL HAVE PERMANENT OR TEMPORARY STABILIZATION COMPLETED WITHIN:

   8.A. END OF THE WORK DAY FOR AREAS WITHIN WATERWAYS.
   8.B. THREE CALENDAR DAYS ON SLOPES GREATER THAN 3:1 AND TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS.
   8.C. SEVEN CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS.
   8.D. ALL STABILIZATION MUST BE IN ACCORDANCE WITH MARYLAND DEPARTMENT OF AGRICULTURE (MDA) FERTILIZER LAW.
9. ALL DISTURBED AREAS WITH SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH 100% BIODEGRADABLE SOIL STABILIZATION MATTING THAT HAS A SUFFICIENT DESIGN SHEAR STRESS FOR THE APPLICATION OR AS SHOWN ON THE APPROVED SEDIMENT AND EROSION CONTROL PLANS.
10. ALL PERMANENTLY STABILIZED AREAS SHALL INCLUDE A MINIMUM OF 4" OF TOPSOIL PER THE 2011 MDE SPECIFICATIONS.
11. ALL STAKING, RESTAKING, AND CUT SHEETS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR OR PROFESSIONAL ENGINEER AT THE CONTRACTOR'S EXPENSE.
12. ALL CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH STATE OF MARYLAND OCCUPATIONAL SAFETY LAWS.
13. ALL ROADS SHALL BE CLEANED AND CLEARED BY THE END OF EACH DAY. ANY MUD OR ROCKS TRACKED ON THE ROADWAYS SHALL BE SWEPT BEFORE THE END OF SHIFT EACH DAY.
14. CONTRACTOR SHALL RESTORE ALL AREAS IMPACTED BY CONSTRUCTION ACTIVITY. THIS SHALL INCLUDE BUT IS NOT LIMITED TO GRASS AREAS, ROADS, PAVED AREAS, ETC...

ABBREVIATIONS

AC	ACRES	MIN.	MINIMUM
BLDG	BUILDING	O.C.	OFF-CENTER
CCB	CLAY CHANNEL BLOCK	PERM.	PERMANENT
C/L	CENTERLINE	PR.	PROPOSED
CMP	CORRUGATED METAL PIPE	PVC	POLYVINYL CHLORIDE
DBH	DIAMETER AT BREAST HEIGHT	RCP	REINFORCED CONCRETE PIPE
DWG	DRAWING	RW	RIFFLE-WEIR
EA	EACH	SCE	STABILIZED CONSTRUCTION ENTRANCE
ELEV.	ELEVATION	SD	STORM DRAIN
EW	ENDWALL	SF	SQUARE FEET
EX.	EXISTING	SS	SANITARY SEWER
FT.	FEET	STA.	STATION
HVF	HIGH VISIBILITY FENCE	STD	STANDARD
HW	HEADWALL	SY.	SQUARE YARDS
IN.	INCHES	TBR.	TO BE REMOVED
INV.	INVERT	TOB	TOP OF BANK
LB	POUNDS	TPS	TRAVERSE POINT
LGC	LOG GRADE CONTROL	TYP.	TYPICAL
LF	LINEAR FEET	VWGC	VALLEY WIDE GRADE CONTROL
LOD	LIMIT OF DISTURBANCE	W	WATER MAIN
MAX.	MAXIMUM	WSE	WATER SURFACE ELEVATION
MB	MOUNTABLE BERM	XS	CROSS-SECTION
MH	MANHOLE	YR.	YEAR

PROJECT INFORMATION

1.	OWNER/DEVELOPER:	HARFORD COUNTY DEPARTMENT OF PUBLIC WORKS WATERSHED PROTECTION AND RESTORATION OFFICE CONTACT: BETSY COLLINS EMAIL: BACOLLINS@HARFORDCOUNTYMD.GOV
2.	OWNER/DEVELOPER INFORMATION:	212 SOUTH BOND STREET, 1ST FLOOR BEL AIR, MD 21014
3.	ENGINEER:	BAYLAND CONSULTANTS & DESIGNERS, INC.
4.	ENGINEER INFORMATION:	7455 NEW RIDGE ROAD, SUITE T HANOVER, MARYLAND 21076 PH: 410-694-9401
5.	TAX MAP:	65
6.	PARCEL:	604
7.	LOT:	N/A
8.	DEED REF:	638/105
9.	DISTRICT:	01
10.	ZONING:	R2 URBAN RESIDENTIAL
11.	PROPERTY AREA:	69.33 ACRES
12.	WATERSHED:	GUNPOWDER RIVER
13.	STREAM USE DESIGNATION:	I
14.	CRITICAL AREA:	NO

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BAYLAND JOB NO. 4_4601

BILLING NO. XXXXXX

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PROFESSIONAL CERTIFICATION

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S/C PLAN # N/A

GP # N/A

REVISIONS

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
GENERAL NOTES

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS

SCALE : AS SHOWN
DATE : 05/30/23

DRAWING NO. GN-02 OF GN-03

SHEET NO. 2 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1 inch

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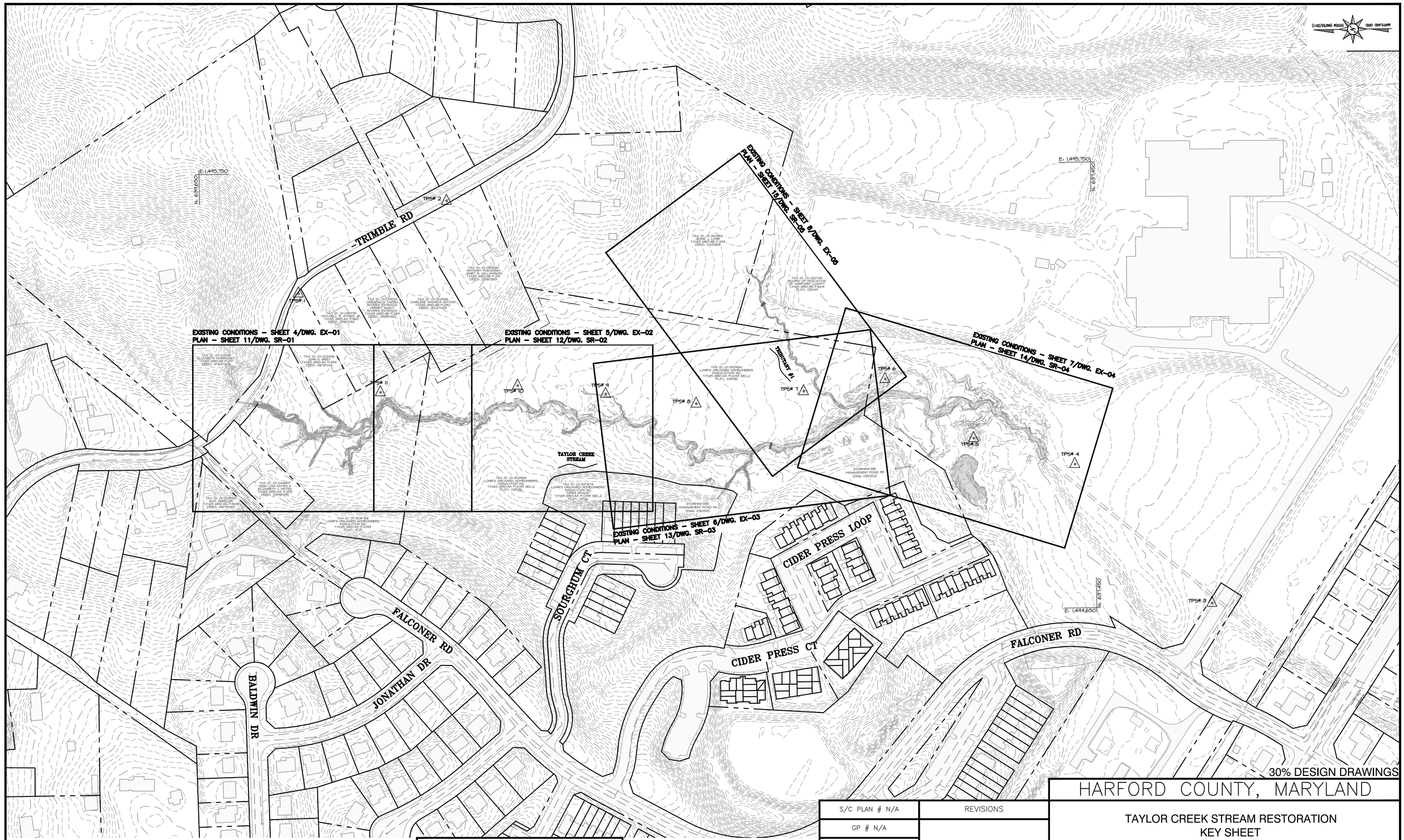

KEY SHEET

SCALE: 1" = 100'

0 50 100 200

1 INCH = 100 FEET

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S/C PLAN # N/A

GP # N/A

REVISIONS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
KEY SHEET

DRAWN BY : MJG

DESIGNED BY : MKS/KJM

REVIEWED BY : SMC/CMS

SCALE : 1" = 100'

DATE : 05/30/23

DRAWING NO. GN-03 OF GN-03

SHEET NO. 3 OF 29

BID No.:

HCG DWG ID No.:

SCALE 1 inch

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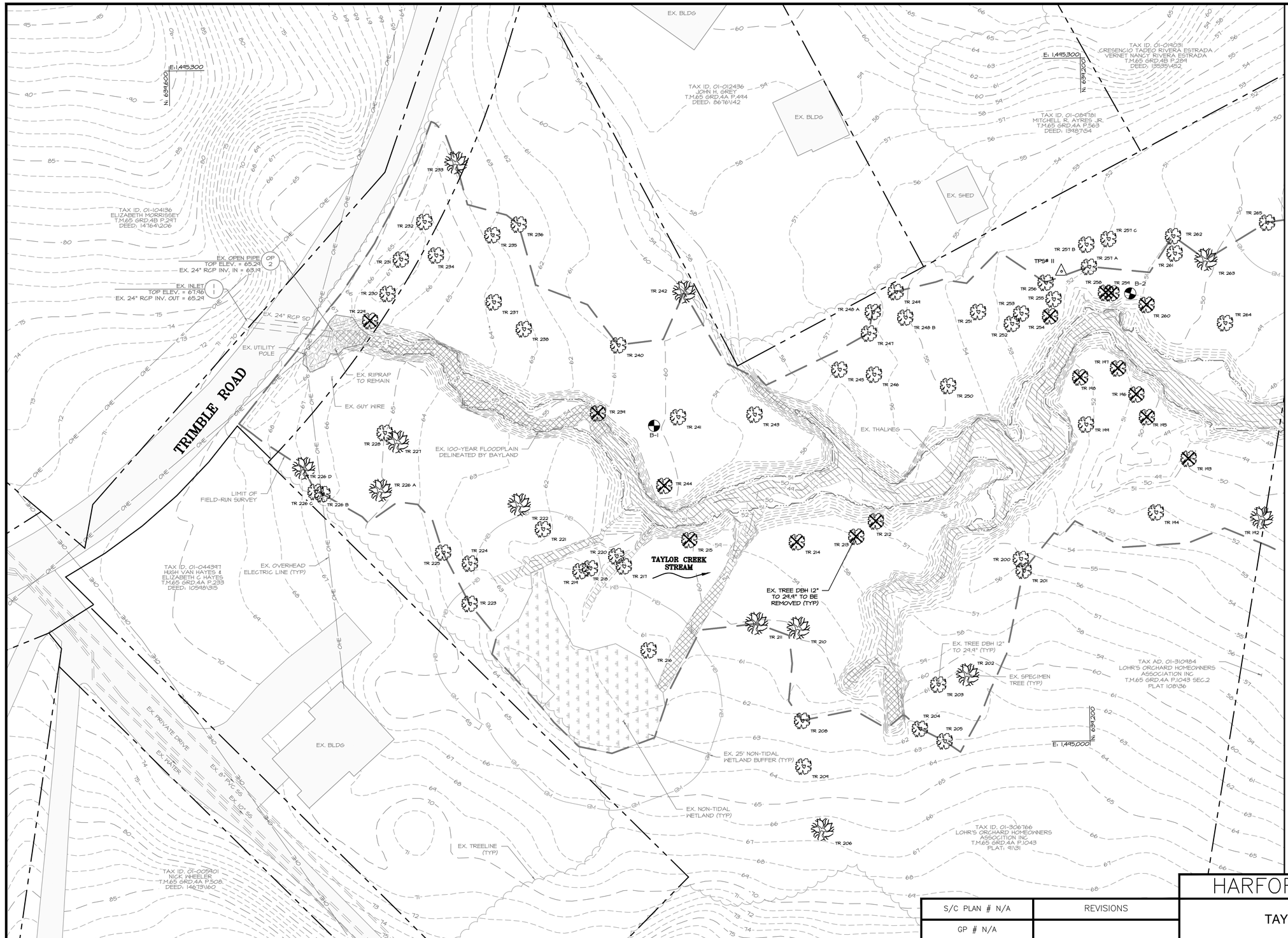

MATCHLINE REFER TO SHEET 5/DWG EX-02

NOTES:
1. FOR EXISTING TREE INVENTORY, SEE SHEET 9/DWG TI-01 AND SHEET 10/DWG TI-02.
2. FOR SOIL BORING LOGS, SEE SHEET 2/DWG GN-02.
3. ROCKS ARE SYMBOLIC AND DO NOT REPRESENT INDIVIDUAL STONE SIZE.
4. EXISTING SUITABLE ROCK WITHIN THE LIMITS OF PROPOSED GRADING SHOULD BE REMOVED, STOCKPILED AND RE-USED ON SITE IF IT MEETS MATERIAL SPECIFICATIONS PER THE CONTRACT DOCUMENTS AND IS APPROVED BY THE ENGINEER.
5. WETLAND DELINEATION WAS PERFORMED BY BAYLAND CONSULTANTS AND DESIGNERS, INC. DATED MARCH 2023. WETLANDS AND ASSOCIATED BUFFERS OUTSIDE LIMIT OF WORK ARE NOT SHOWN ON PLANS. DISCONTINUOUS WETLAND BOUNDARY INDICATES WETLAND EXTENDS BEYOND THE LIMIT OF WORK.

EXISTING CONDITIONS

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0 10 20 40

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GP # N/A	

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
EXISTING CONDITIONS

DRAWN BY : MJG	SCALE : 1" = 20'
DESIGNED BY : MKS/KJM	DATE : 05/30/23
REVIEWED BY : SMC/CMS	
DRAWING NO. EX-01 OF EX-05	SHEET NO. 4 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1" = 20'

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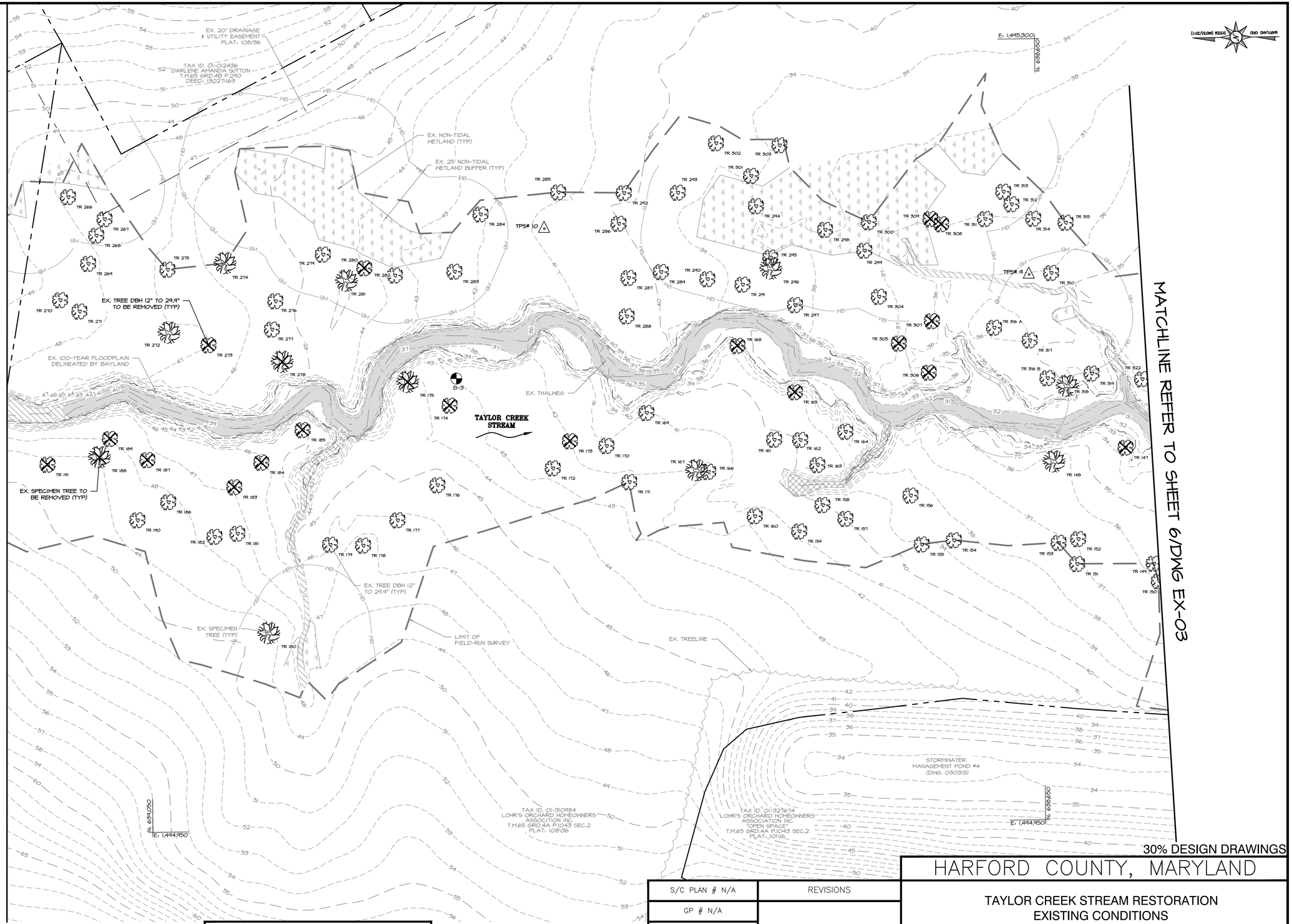

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HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
EXISTING CONDITIONS

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REVISIONS

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REVIEWED BY : SMC/CMS

SCALE : 1" = 20'

DATE : 05/30/23

DRAWING NO. EX-02 OF EX-05

SHEET NO. 5 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1 inch

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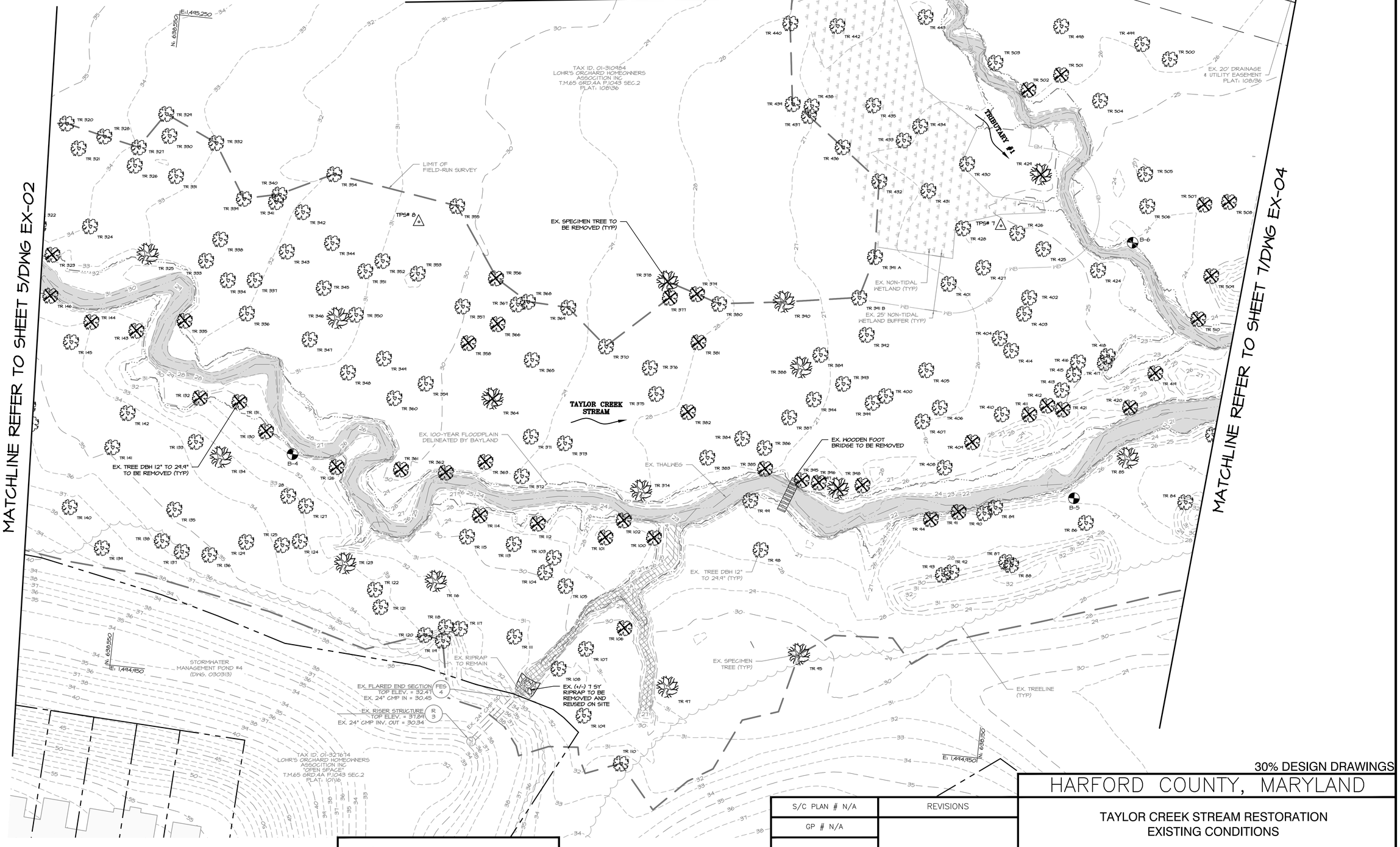
MATCHLINE REFER TO SHEET 8/DWG EX-05

MATCHLINE REFER TO SHEET 5/DWG EX-02

MATCHLINE REFER TO SHEET 7/DWG EX-04



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HARFORD COUNTY, MARYLAND

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SCALE : 1" = 20'
DATE : 05/30/23

DRAWING NO. EX-03 OF EX-05

SHEET NO. 6 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1" = 20'

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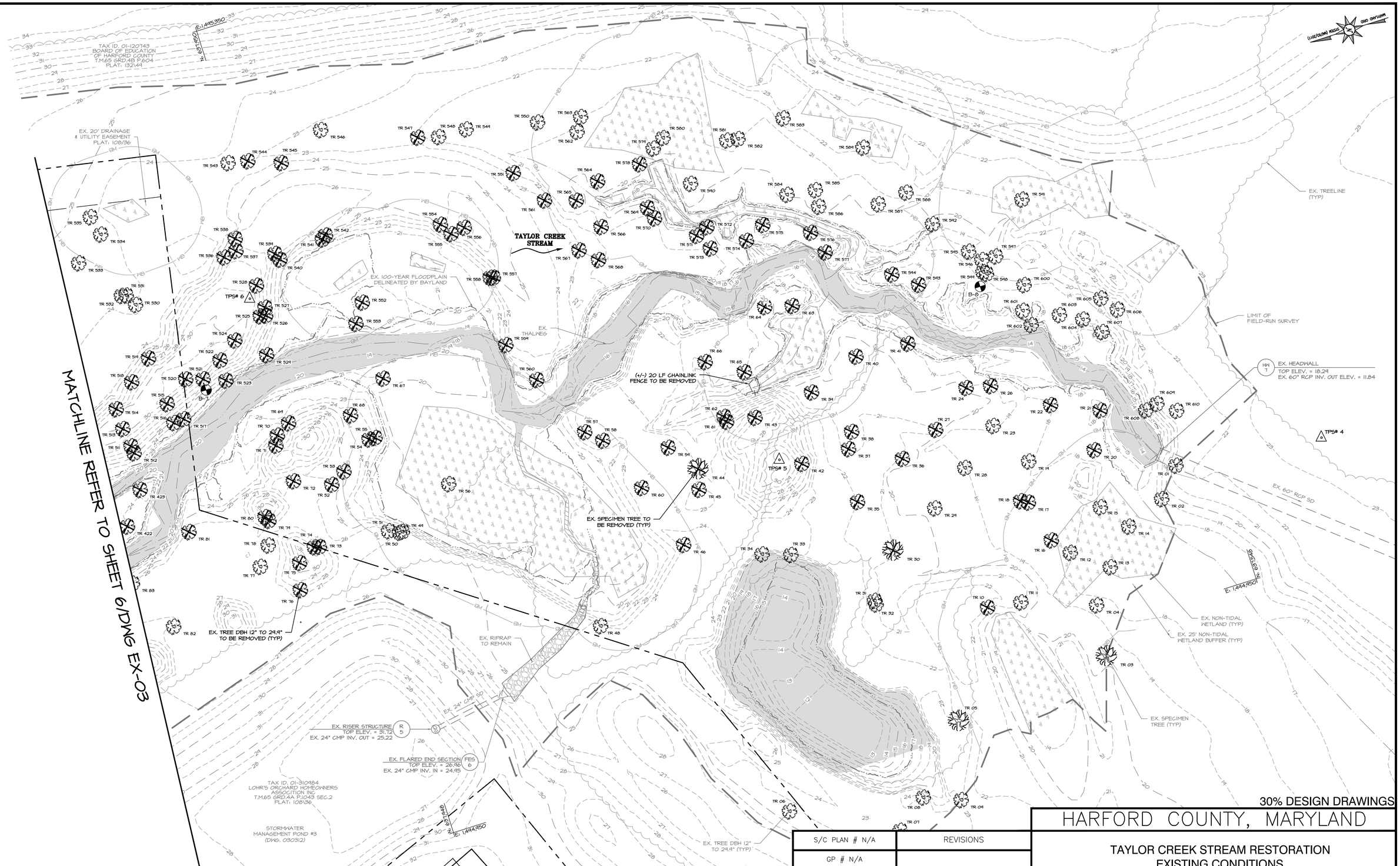

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GP # N/A	

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HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
EXISTING CONDITIONS

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DESIGNED BY : MKS/KJM	DATE : 05/30/23
REVIEWED BY : SMC/CMS	
DRAWING NO. EX-04 OF EX-05	SHEET NO. 7 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1" = 20'

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S/C PLAN # N/A

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REVISIONS

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HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
EXISTING CONDITIONS

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DESIGNED BY : MKS/KJM

REVIEWED BY : SMC/CMS

SCALE : 1" = 20'

DATE : 05/30/23

DRAWING NO. EX-05 OF EX-05

SHEET NO. 8 OF 29

BID No.:

HCG DWG ID No.:

SCALE : 1 inch

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TREE NUMBER	DBH, IN	ABBREVIATION	SCIENTIFIC NAME	COMMON NAME	CONDITION
TR 01	27.1	PO	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	GOOD
TR 02	15.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 03	35.0	QPA	QUERCUS PALUSTRIS	PIN OAK	GOOD
TR 04	25.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 05	32.8	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 06	18.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 07	13.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 08	14.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 09	16.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 10 (TBR.)	15.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 11	12.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 12	24.8	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 13	17.7	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 14	18.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 15	16.2	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 16 (TBR.)	14.3, 7.9	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 17 (TBR.)	24.5	PO	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	FAIR
TR 18 (TBR.)	13.8	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 19	14.2	QPA	QUERCUS PALUSTRIS	PIN OAK	GOOD
TR 20 (TBR.)	21.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 21 (TBR.)	27.9	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 22 (TBR.)	14.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 23	23.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 24 (TBR.)	17.5, 16.9	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 26 (TBR.)	14.2	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 27 (TBR.)	16.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 28	19.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 29	21.5	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 30 (TBR.)	39.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 31	19.8, 17.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 33	17.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 34	19.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 35 (TBR.)	22.1	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 36 (TBR.)	18.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 37 (TBR.)	19.3	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 38 (TBR.)	26.1	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 39 (TBR.)	18.8	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 40 (TBR.)	27.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 41 (TBR.)	20.4	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 42 (TBR.)	17.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 43 (TBR.)	20.6	PS	PRUNUS SEROTINA	BLACK CHERRY	GOOD
TR 44 (TBR.)	30.5	DEAD	N/A	N/A	DEAD
TR 45 (TBR.)	19.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 46 (TBR.)	15.8, 15.6	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 48	14.1	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 49	18.7	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 50	13.0	PST	PINUS STROBUS	EASTERN WHITE PINE	FAIR
TR 51	16.9	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 52 (TBR.)	24.8	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 53 (TBR.)	22.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 54 (TBR.)	14.6	QPA	QUERCUS PALUSTRIS	PIN OAK	GOOD
TR 55 (TBR.)	14.5	QPA	QUERCUS PALUSTRIS	PIN OAK	GOOD
TR 56	13.7	TD	TAXODIUM DISTICHUM	BALD CYRRESS	GOOD
TR 57 (TBR.)	25.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 58 (TBR.)	15.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 59 (TBR.)	18.9, 7.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 60 (TBR.)	12.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 61 (TBR.)	12.9	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 62 (TBR.)	14.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 63 (TBR.)	24.1	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 64 (TBR.)	18.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 65 (TBR.)	13.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 66 (TBR.)	12.1	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 67 (TBR.)	14.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 68 (TBR.)	13.7	QPA	QUERCUS PALUSTRIS	PIN OAK	GOOD
TR 69 (TBR.)	16.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 70 (TBR.)	15.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 71 (TBR.)	12.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 72 (TBR.)	24.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 73 (TBR.)	13.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 74 (TBR.)	14.8	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 75 (TBR.)	13.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 76 (TBR.)	16.8	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 77	12.5	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 78	12.3	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 79 (TBR.)	15.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 80 (TBR.)	13.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 81 (TBR.)	14.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 82	26.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 83	15.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR

TBR = TO BE REMOVED

TREE NUMBER	DBH, IN	ABBREVIATION	SCIENTIFIC NAME	COMMON NAME	CONDITION
TR 84	16.4	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 85	31.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 86	14.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 87	18.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 88	12.3	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 89	14.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 90	17.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 91 (TBR.)	14.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 92	17.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 93	13.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 94 (TBR.)	19.9	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 95	44.0, 34.9, 18.5	PO	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	FAIR
TR 97	43.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 98	19.1	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 99	26.4	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 100 (TBR.)	17.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 101 (TBR.)	22.0	QA	QUERCUS ALBA	WHITE OAK	FAIR
TR 102 (TBR.)	21.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 103	27.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 104	19.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 105	23.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 106 (TBR.)	29.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 107	16.9	PS	PRUNUS SEROTINA	BLACK CHERRY	FAIR
TR 108	13.1	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 109	13.7	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 110	23.9	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 111	28.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	POOR
TR 112 (TBR.)	21.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	POOR
TR 113	17.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 114 (TBR.)	20.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 115	12.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 116	30.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 117	15.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 118	22.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 119	12.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 120	12.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 121	14.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 122	20.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 123	31.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 124	14.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 125	14.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 126 (TBR.)	14.6	NS	NYSSA SYLVATICA	BLACK TUPELO	FAIR
TR 127	13.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 128	20.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 129	27.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	POOR
TR 130 (TBR.)	29.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 131 (TBR.)	13.7	NS	NYSSA SYLVATICA	BLACK TUPELO	GOOD
TR 132 (TBR.)	14.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 133	15.9	QF	QUERCUS FALCATA	SOUTHERN RED OAK	FAIR
TR 134	31.3	QF	QUERCUS FALCATA	SOUTHERN RED OAK	GOOD
TR 135	18.5	PV	PINUS VIRGINIANA	VIRGINIA PINE	FAIR
TR 136	13.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	POOR
TR 137	12.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 138	14.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 139	23.4	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 140	18.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 141	15.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 142	24.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 143 (TBR.)	28.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 144 (TBR.)	25.9	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 145	14.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 146 (TBR.)	18.2	QA	QUERCUS ALBA	WHITE OAK	FAIR
TR 147 (TBR.)	16.3	NS	NYSSA SYLVATICA	BLACK TUPELO	FAIR
TR 148	34.4	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 149	13.0	PS	PRUNUS SEROTINA	BLACK CHERRY	FAIR
TR 150	12.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 151	18.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 152	22.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 153	12.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 154	15.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 155	27.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 156	23.4	QPA	QUERCUS PALUSTRIS	PIN OAK	GOOD
TR 157	18.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 158	12.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 159	14.5	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 160	17.9	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 161	13.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 162	25.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 163	19.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 164	21.9	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR

TREE NUMBER	DBH, IN	ABBREVIATION	SCIENTIFIC NAME	COMMON NAME	CONDITION
TR 165 (TBR.)	19, 17.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 166	24.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 167	33.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 168 (TBR.)	17.1	QA	QUERCUS ALBA	WHITE OAK	FAIR
TR 169	29.0	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 170	13.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 171	18.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 172	18.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 173 (TBR.)	26.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 174 (TBR.)	21.7	QPA	QUERCUS PALUSTRIS	PIN OAK	GOOD
TR 175 (TBR.)	35.5, 14.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 176	22.7	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 177	12.3	FG	FAGUS GRANDIFOLIA	AMERICAN BEECH	GOOD
TR 178	22.1	PT	PINUS TAEDA	LOBLOLLY PINE	GOOD
TR 179	19.7	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 180	36.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 181	19.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 182	22.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 183 (TBR.)	12.3	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 184 (TBR.)	13.6	PS	PRUNUS SEROTINA	BLACK CHERRY	FAIR
TR 185 (TBR.)	14.9, 14.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 186	27.2	QPA	QUERCUS PALUSTRIS	PIN OAK	GOOD
TR 187 (TBR.)	23.9	QPA	QUERCUS PALUSTRIS	PIN OAK	GOOD
TR 188 (TBR.)	33.8	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 189 (TBR.)	27.4	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 190	22.5	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 191 (TBR.)	25.5	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 192	31.5	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 193 (TBR.)	12.3	PS	PRUNUS SEROTINA	BLACK CHERRY	FAIR
TR 194	23.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 195 (TBR.)	16.1	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 196 (TBR.)	14.1	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 197 (TBR.)	17.5	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 198 (TBR.)	16.2	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 199	28.7	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 200	15.6	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 201	16.5	NS	NYSSA SYLVATICA	BLACK TUPELO	FAIR
TR 202	33.5	PO	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	FAIR
TR 203	22.5	PS	PRUNUS SEROTINA	BLACK CHERRY	FAIR
TR 204	26.0	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 205	17.2	PS	PRUNUS SEROTINA	BLACK CHERRY	POOR
TR 206	30.0, 15.5	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 208	26.0	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 209	19.9	NS	NYSSA SYLVATICA	BLACK TUPELO	GOOD
TR 210	33.7	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 211	36.7	QPA	QUERCUS PALUSTRIS	PIN OAK	GOOD
TR 212 (TBR.)	13.6	QPA	QUERCUS PALUSTRIS	PIN OAK	POOR
TR 213 (TBR.)	23.4	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 214 (TBR.)	22.0	NS	NYSSA SYLVATICA	BLACK TUPELO	FAIR
TR 215 (TBR.)	26.3	AR	ACER RUBRUM	RED MAPLE	POOR
TR 216	16.2	AR	ACER RUBRUM	RED MAPLE	POOR
TR 217	16.8	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 218	21.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 219	17.2	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 220	20.3	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 221	22.0	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 222	34.0	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 223	15.9	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 224	14.5	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 225	19.8	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 226 A	31.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 226 B	14.7	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 226 C	15, 3.1	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 226 D	32.1	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 227	31.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 228	28.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 229 (TBR.)	15.2	PS	PRUNUS SEROTINA	BLACK CHERRY	POOR
TR 230	13.5	QA	QUERCUS ALBA	WHITE OAK	FAIR
TR 231	25.0	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 232	29.5	QR	QUERCUS RUBRA	NORTHERN RED OAK	GOOD
TR 233	43.7	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 234	20.0	QA	QUERCUS ALBA	WHITE OAK	FAIR
TR 235	16.7	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 236	16.9	PS	PRUNUS SEROTINA	BLACK CHERRY	FAIR
TR 237	13.1	NS	NYSSA SYLVATICA	BLACK TUPELO	GOOD
TR 238	23.5	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 239 (TBR.)	14.4	JN	JUGLANS NIGRA	BLACK WALNUT	POOR
TR 240	16.0	AR	ACER RUBRUM	RED MAPLE	POOR
TR 241	22.9	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 242	49.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR

TREE NUMBER	DBH, IN	ABBREVIATION	SCIENTIFIC NAME	COMMON NAME	CONDITION
TR 243	19.3	AR	ACER RUBRUM	RED MAPLE	POOR
TR 244 (TBR.)	20.6	AR	ACER RUBRUM	RED MAPLE	POOR
TR 245	12.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 246	20.3	QPA	QUERCUS PALUSTRIS	PIN OAK	POOR
TR 247	21.5	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 248A	14.0	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 248B	11.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 249	27.0	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 250	18.0	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 251	15.0	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 252	15.8	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 253	15.5	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 254 (TBR.)	24.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 255	19.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 256	15.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 257 A	17.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 257 B	22.8	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 257 C	25.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 258 (TBR.)	23.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 259 (TBR.)	14.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 260 (TBR.)	18.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 261	23.5, 16.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 262	26.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 263	31.5	QPH	QUERCUS PHELLOS	WILLOW OAK	FAIR
TR 264	18.6	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 265	15.6	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 266	24.6, 11.3	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 267	22.2	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 268	22.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 269	28.1	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 270	22.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 271	24.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 272	34.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 273 (TBR.)	28.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 274	30.4	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 275	26.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 276	18.8	QPA	QUERCUS PALUSTRIS	PIN OAK	FAIR
TR 277	12.2	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 278 (TBR.)	32.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 279	17.3	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 280 (TBR.)	14.2	NS	NYSSA SYLVATICA	BLACK TUPELO	FAIR
TR 281	30.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 282	16.4	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 283	18.5	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 284	17.0	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 285	17.7	NS	NYSSA SYLVATICA	BLACK TUPELO	GOOD
TR 286	16.7	QP	QUERCUS PAGODA	CHERRY BARK OAK	GOOD
TR 287	27.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 288	15.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 289	13.1, 12.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 290	21.8	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 291	15.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 292	15.2	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 293	23.8	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 294	13.7	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 295	14.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 296	32.5	DEAD	N/A	N/A	DEAD
TR 297	18.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 298	13.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 299	17.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 300	15.8	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 301	15.2, 10.5	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 302	17.5	NS	NYSSA SYLVATICA	BLACK TUPELO	GOOD
TR 303	15.5	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 304	12.5	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 305 (TBR.)	17.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 306 (TBR.)	29.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 307 (TBR.)	15.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 308 (TBR.)	13.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 309 (TBR.)	12.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 310	22.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 311	13.2	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 312	19.7	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 313	24.1	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 314	22.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 315	18.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 316 A	21.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 316 B	25.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 317	21.0, 11.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 318	30.3, 16.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
TREE INVENTORY

BayLand Consultants & Designers, Inc.
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PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 200966, EXPIRATION DATE: 01/16/2025.

S/C PLAN # N/A

GP # N/A

REVISIONS

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS
SCALE : AS SHOWN
DATE : 05/30/23

DRAWING NO. TI–01 OF TI–02
SHEET NO. 9 OF 29

BID No.:

HCG DWG ID No.:

SCALE : 1 inch

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TREE NUMBER	DBH, IN	ABBREVIATION	SCIENTIFIC NAME	COMMON NAME	CONDITION
TR 319	18.8	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 320	17.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 321	17.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 322	29.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 323 (TBR.)	14.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 324	15.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 325	32.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 326	15.2, 5.8	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 327	28.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 328	19.6	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 329	16.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 330	18.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 331	17.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 332	23.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 333	16.6, 12.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 334	16.4	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	POOR
TR 335 (TBR.)	25.2	QA	QUERCUS ALBA	WHITE OAK	FAIR
TR 336	18.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 337	18.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 338	15.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 339	15.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 340	18.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 341	21.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 342	16.9	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	POOR
TR 343	15.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 344	16.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 345	15.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 346	40.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 347	18.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 348	13.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 349	22.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 350	13.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 351	17.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 352	17.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 353	25.9	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 354	18.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 355	17.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 356 (TBR.)	20.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 357	27.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 358 (TBR.)	18.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 359	18.8	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 360	16.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 361 (TBR.)	24.1	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 362 (TBR.)	12.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 363 (TBR.)	15.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 364 (TBR.)	37.8	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 365	18.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 366 (TBR.)	19.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 367	18.7	NS	NYSSA SYLVATICA	BLACK TUPELO	FAIR
TR 368	14.9	NS	NYSSA SYLVATICA	BLACK TUPELO	FAIR
TR 369	13.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 370	23.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 371	15.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 372	25.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 373	28.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 374	31.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 375	12.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 376	12.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 377 (TBR.)	23.4	DEAD	N/A	N/A	DEAD
TR 378 (TBR.)	30.5	QPH	QUERCUS PHELLOS	WILLOW OAK	GOOD
TR 379 (TBR.)	21.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 380	14.5	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 381 (TBR.)	15.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 382 (TBR.)	22.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 383	22.6	NS	NYSSA SYLVATICA	BLACK TUPELO	GOOD
TR 384	16.4	PS	PRUNUS SEROTINA	BLACK CHERRY	GOOD
TR 385 (TBR.)	21.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 386	17.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 387	14.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 388	31.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 389	21.9	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 390	30.0	QPA	QUERCUS PALUSTRIS	PIN OAK	GOOD
TR 391 A	18.4	QPA	QUERCUS PALUSTRIS	PIN OAK	GOOD
TR 391 B	22.5	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 392	25.5	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 393	13.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 394	13.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 395 (TBR.)	13.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD

TBR = TO BE REMOVED

TREE NUMBER	DBH, IN	ABBREVIATION	SCIENTIFIC NAME	COMMON NAME	CONDITION
TR 396 (TBR.)	14.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 397 (TBR.)	40.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 398 (TBR.)	16.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 399	14.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 400	24.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 401	23.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 402	23.4	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 403	13.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 404	21.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 405	19.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 406	19.9	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 407	20.9	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 408	18.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 409 (TBR.)	16.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 410	17.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 411 (TBR.)	25.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 412 (TBR.)	25.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 413	21.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 414	14.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 415	19.9	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 416	16.7	PS	PRUNUS SEROTINA	BLACK CHERRY	GOOD
TR 417	21.4	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 418	21.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 419 (TBR.)	24.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 420 (TBR.)	12.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 421 (TBR.)	12.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 422 (TBR.)	16.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 423 (TBR.)	16.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 424	26.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 425	26.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 426	16.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 427	21.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 428	26.5	NS	NYSSA SYLVATICA	BLACK TUPELO	GOOD
TR 429 (TBR.)	30.9	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 430	20.0	NS	NYSSA SYLVATICA	BLACK TUPELO	GOOD
TR 431	22.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 432	24.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 433	21.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 434	16.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 435	19.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 436	20.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 437	16.0	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 438	12.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 439	16.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 440	29.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 441	22.4	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 442	24.1	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 443	21.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 444	20.3	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 445	23.0	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 446	24.5	QA	QUERCUS ALBA	WHITE OAK	FAIR
TR 447	19.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 448	15.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 449	15.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 450	14.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 451	14.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 452 (TBR.)	21.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 453 (TBR.)	21.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 454 (TBR.)	22.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 455	13.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 456	15.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 457	15.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 458	13.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 459	12.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 460	14.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 461	31.5	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 462	14.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 463	12.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 464	18.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 465	16.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 466	12.6, 12.2, 11.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 467	18.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 468	16.3	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 469	21.7	QP	QUERCUS PAGODA	CHERRY BARK OAK	GOOD
TR 470	16.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 471	17.8	QP	QUERCUS PAGODA	CHERRY BARK OAK	GOOD
TR 472	14.9	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 473 (TBR.)	13.5	AR	ACER RUBRUM	RED MAPLE	GOOD

TREE NUMBER	DBH, IN	ABBREVIATION	SCIENTIFIC NAME	COMMON NAME	CONDITION
TR 474	18.5	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 475	17.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 476	17.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR–POOR
TR 477	12.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 478	13.1	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 479	18.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 480	12.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 481	13.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 482	17.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 483	15.4	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 484	19.5	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 485	12.3	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 486	17.8	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 487	19.5	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 488	14.5	PO	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	FAIR
TR 489	30.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 490	14.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 491	12.1	PO	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	GOOD
TR 492	15.2	PO	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	FAIR
TR 493	13.5	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 494	18.6	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 495	15.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR–POOR
TR 496	14.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 497 (TBR.)	26.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 498	20.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 499	14.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 500	28.5	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 501 (TBR.)	14.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	POOR
TR 502 (TBR.)	25.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 503	24.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 504	21.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 505	21.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 506	17.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 507 (TBR.)	15.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 508 (TBR.)	20.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 509 (TBR.)	24.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 510 (TBR.)	28.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR–POOR
TR 511	15.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 512 (TBR.)	18.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 513 (TBR.)	13.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 514 (TBR.)	17.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 515 (TBR.)	12.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 516 (TBR.)	15.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 517 (TBR.)	23.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 518 (TBR.)	17.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 519 (TBR.)	26.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 520 (TBR.)	15.5	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 521 (TBR.)	12.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 522 (TBR.)	13.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 523 (TBR.)	16.6	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 524 (TBR.)	18.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 525 (TBR.)	14.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 526 (TBR.)	23.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 527 (TBR.)	12.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 528 (TBR.)	15.3, 10.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 529 (TBR.)	13.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 530	17.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 531	12.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 532	21.8	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 533	14.2	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 534	24.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 535	18.2	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 536 (TBR.)	15.4	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 537 (TBR.)	20.9	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 538 (TBR.)	15.0	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 539 (TBR.)	17.0	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 540 (TBR.)	19.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 541 (TBR.)	15.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 542 (TBR.)	12.0	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 543	14.0	QA	QUERCUS ALBA	WHITE OAK	GOOD
TR 544 (TBR.)	12.0	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 545 (TBR.)	16.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 546	13.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 547 (TBR.)	20.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 548	14.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 549	22.6	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 550	25.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR–POOR
TR 551 (TBR.)	16.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD

TREE NUMBER	DBH, IN	ABBREVIATION	SCIENTIFIC NAME	COMMON NAME	CONDITION
TR 552 (TBR.)	12.6	PO	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	GOOD
TR 553 (TBR.)	12.4	PO	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	GOOD
TR 554 (TBR.)	18.4	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 555 (TBR.)	22.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 556 (TBR.)	21.3,16.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 557 (TBR.)	14.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 558 (TBR.)	12.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 559 (TBR.)	16.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 560 (TBR.)	13.1	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 561 (TBR.)	16.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 562	13.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 563	14.2	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 564 (TBR.)	16.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 565 (TBR.)	16.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 566 (TBR.)	15.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 567 (TBR.)	14.3	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 568 (TBR.)	20.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 569 (TBR.)	14.1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 570 (TBR.)	19.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 571 (TBR.)	15.9	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 572 (TBR.)	22.4	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 573 (TBR.)	13.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 574 (TBR.)	22.7	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	FAIR
TR 575 (TBR.)	22.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 576 (TBR.)	13.8	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 577 (TBR.)	15.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 578 (TBR.)	12.1	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 579	16.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 580	15.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 581	15.9	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 582	14.3	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 583	25.0	PO	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	FAIR
TR 584	19.3	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 585	18.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 586	18.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 587	14.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 588	12.4	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 589	15.7	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 590	20.4	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 591	18.9	TD	TAXODIUM DISTICHUM	BALD CYPRESS	GOOD
TR 592	15.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 593 (TBR.)	20.0	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 594 (TBR.)	24.0	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 595	24.3	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	GOOD
TR 596	14.3	AR	ACER RUBRUM	RED MAPLE	FAIR
TR 597	17.2	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 598	13.7, 12.7	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 600	22.2	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 601	13.6	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 602	15.7	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	POOR
TR 603	15.8	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 604	13.6	NS	NYSSA SYLVATICA	BLACK TUPELO	FAIR
TR 605	17.6	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 606	13.3	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 607	12.10	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	FAIR
TR 608	12.5	LS	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	GOOD
TR 609	12.2	AR	ACER RUBRUM	RED MAPLE	GOOD
TR 610	16.4	AR	ACER RUBRUM	RED MAPLE	GOOD

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
TREE INVENTORY

BayLand Consultants & Designers, Inc.
"Integrating Engineering and Environment"
7455 New Ridge Road, Suite T Phone: (410) 694-9401
Hanover, Maryland 21076 Fax: (410) 694-9105
www.baylandinc.com
BAYLAND JOB NO. 4_4601

BILLING NO. XXXXXX

EG–SWMENG– XXXXXX–XXXX #XXXX

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 200966, EXPIRATION DATE: 01/16/2025.

S/C PLAN # N/A

GP # N/A

REVISIONS

DRAWN BY : MJG

DESIGNED BY : MKS/KJM

REVIEWED BY : SMC/CMS

SCALE : AS SHOWN

DATE : 05/30/23

DRAWING NO. TI–02 OF TI–02

SHEET NO. 10 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1 Inch

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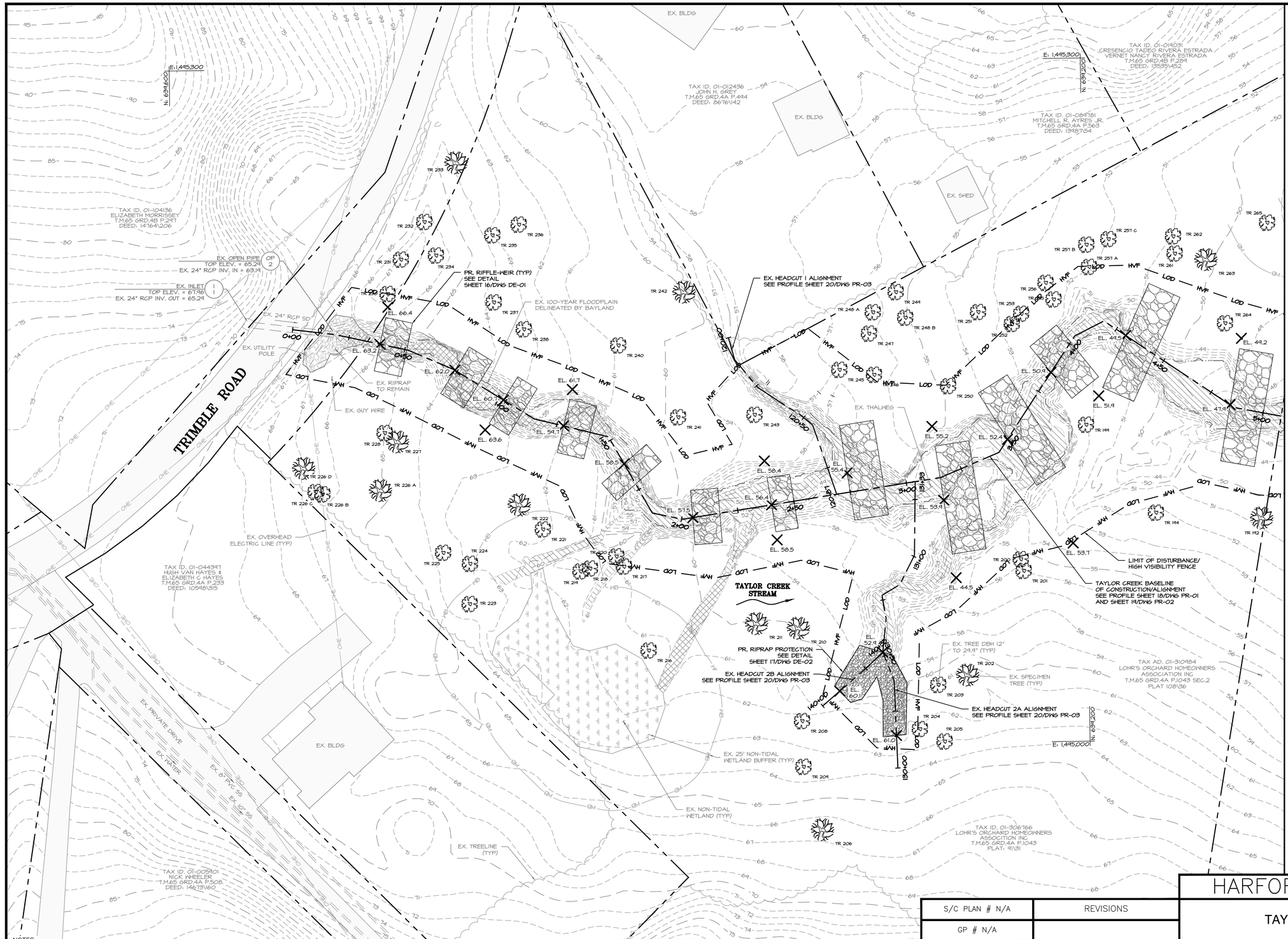

MATCHLINE REFER TO SHEET 12/DWG SR-02

NOTES:
1. FOR EXISTING TREE INVENTORY, SEE SHEET 9/DWG TI-01 AND SHEET 10/DWG TI-02.
2. FOR SOIL BORING LOGS, SEE SHEET 2/DWG GN-02.
3. ROCKS ARE SYMBOLIC AND DO NOT REPRESENT INDIVIDUAL STONE SIZE.
4. EXISTING SUITABLE ROCK WITHIN THE LIMITS OF PROPOSED GRADING SHOULD BE REMOVED, STOCKPILED AND RE-USED ON SITE IF IT MEETS MATERIAL SPECIFICATIONS PER THE CONTRACT DOCUMENTS AND IS APPROVED BY THE ENGINEER.
5. WETLAND DELINEATION WAS PERFORMED BY BAYLAND CONSULTANTS AND DESIGNERS, INC. DATED MARCH 2023. WETLANDS AND ASSOCIATED BUFFERS OUTSIDE LIMIT OF WORK ARE NOT SHOWN ON PLANS. DISCONTINUOUS WETLAND BOUNDARY INDICATES WETLAND EXTENDS BEYOND THE LIMIT OF WORK.
6. FOR STRUCTURE DETAILS SEE SHEET 16/DWG DE-01 AND SHEET 17/DWG DE-02.
7. ROCK FOR RIFFLE-WEIR APRONS AND RUNS NOT SHOWN IN PLAN VIEW. FOR EXTENTS OF ROCK, REFER TO THE DETAILS.

PLAN-STREAM

SCALE: 1" = 20'

0 10 20 40

1 INCH = 20 FEET

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S/C PLAN # N/A

GP # N/A

REVISIONS

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
PLAN

DRAWN BY : MJG

DESIGNED BY : MKS/KJM

REVIEWED BY : SMC/CMS

SCALE : 1" = 20'

DATE : 05/30/23

DRAWING NO. SR-01 OF SR-05

SHEET NO. 11 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1 inch

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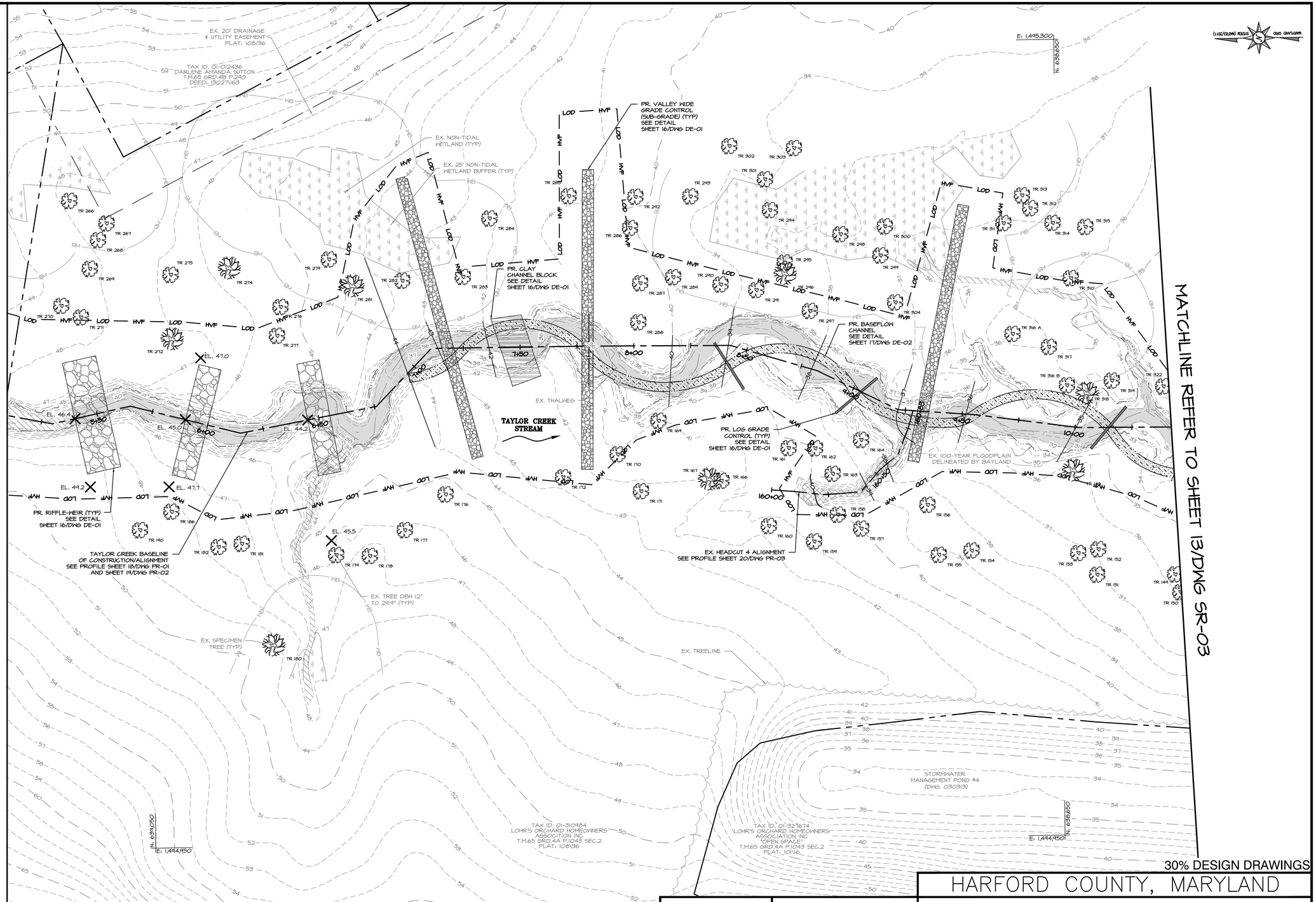
MATCHLINE REFER TO SHEET 11/DWG SR-01

MATCHLINE REFER TO SHEET 13/DWG SR-03



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1 INCH = 20 FEET

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S/C PLAN # N/A	REVISIONS
GP # N/A	

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION PLAN

DRAWN BY : MJG	SCALE : 1" = 20'
DESIGNED BY : MKS/KJM	DATE : 05/30/23
REVIEWED BY : SMC/CMS	
DRAWING NO. SR-02 OF SR-05	SHEET NO. 12 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1" = 20'

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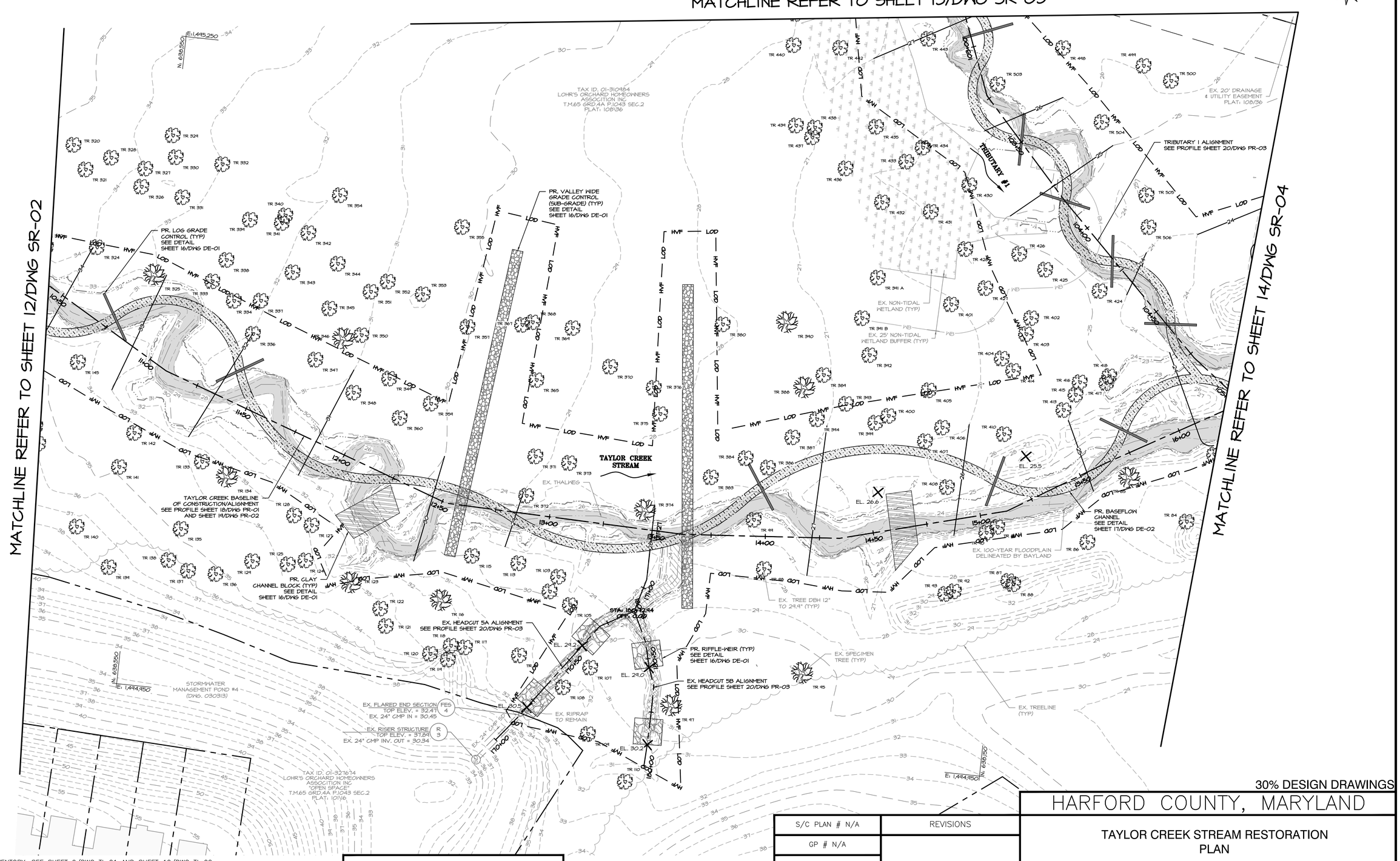

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30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION PLAN

S/C PLAN # N/A	REVISIONS
GP # N/A	

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS
SCALE : 1" = 20'
DATE : 05/30/23
DRAWING NO. SR-03 OF SR-05
SHEET NO. 13 OF 29

BID No.:
HCG DWG ID No.:
SCALE: 1 inch

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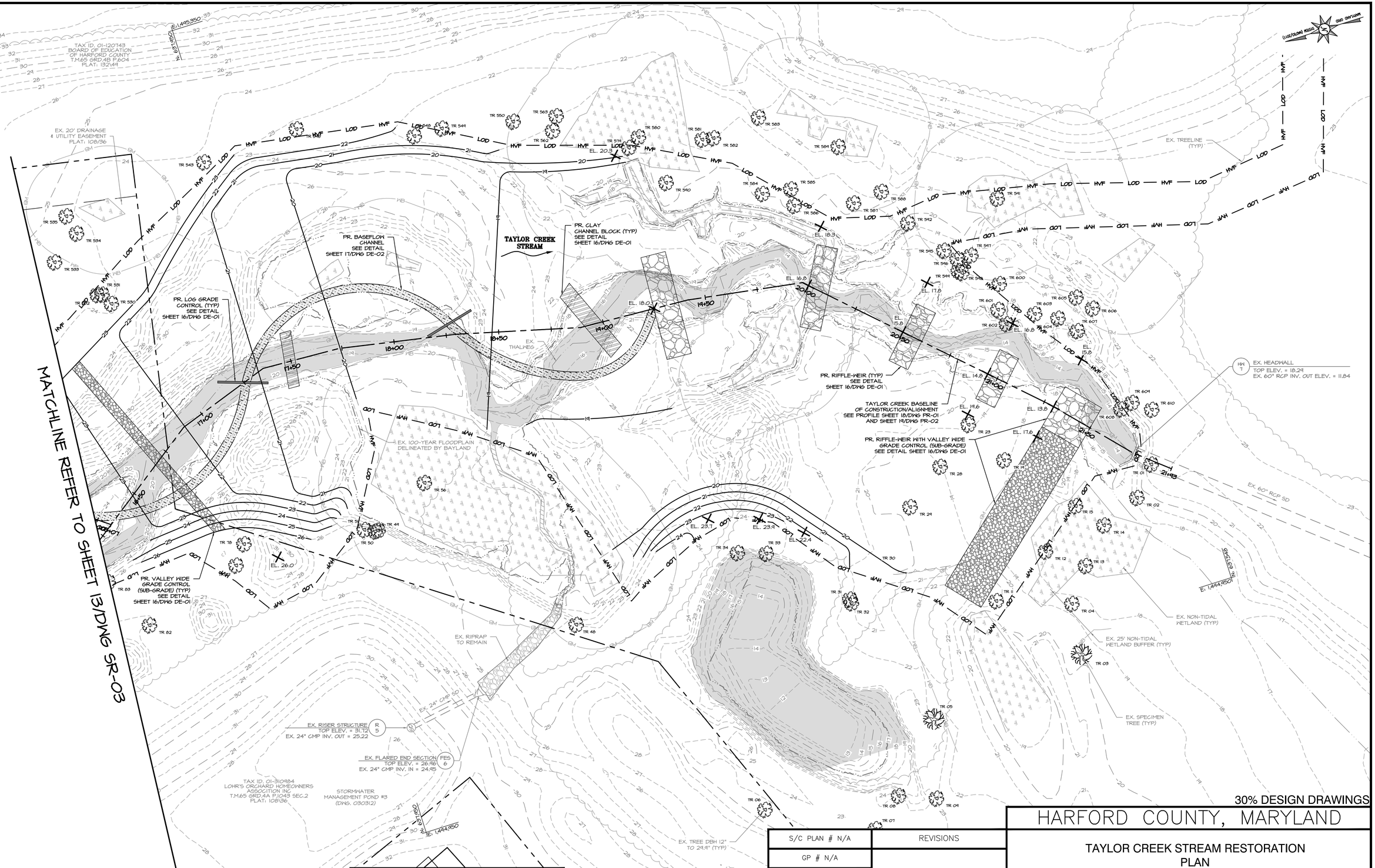

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EG-SWMENG- XXXXXX-XXXX #XXXX

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30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION PLAN

S/C PLAN # N/A	REVISIONS
GP # N/A	

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS
SCALE : 1" = 20'
DATE : 05/30/23
DRAWING NO. SR-04 OF SR-05
SHEET NO. 14 OF 29

BID No.:
HCG DWG ID No.:

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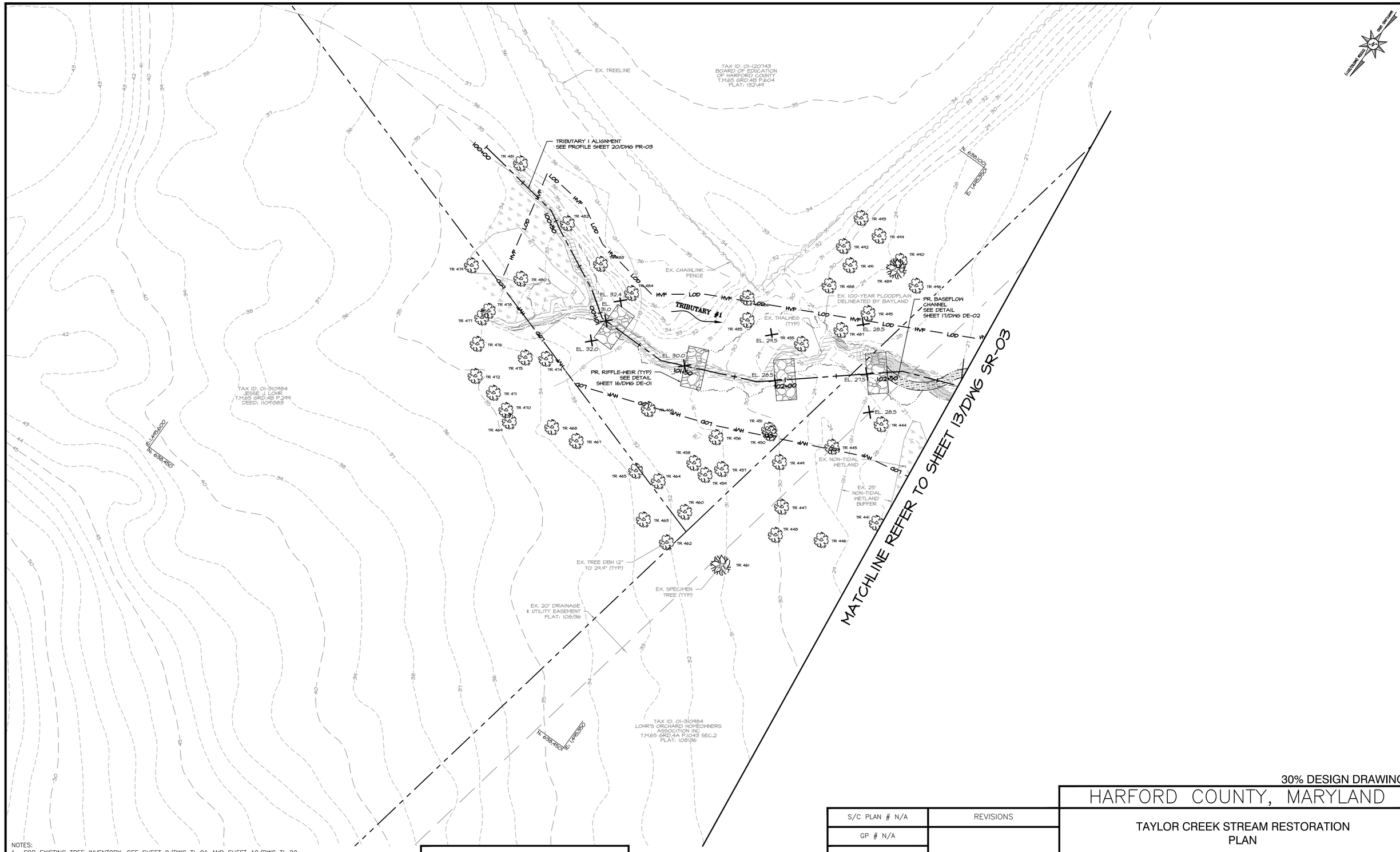

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EG-SWMENG- XXXXXX-XXXX #XXXX

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S/C PLAN # N/A

GP # N/A

REVISIONS

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
PLAN

DRAWN BY : MJG

DESIGNED BY : MKS/KJM

REVIEWED BY : SMC/CMS

SCALE : 1" = 20'

DATE : 05/30/23

DRAWING NO. SR-05 OF SR-05

SHEET NO. 15 OF 29

BID No.:

HCG DWG ID No.:

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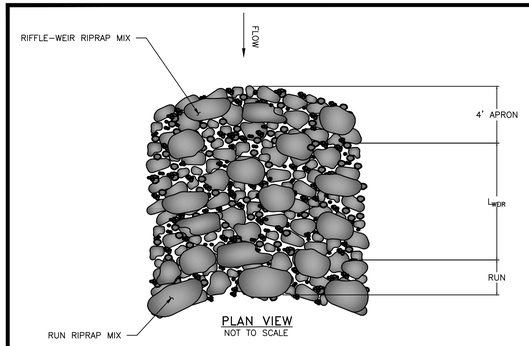
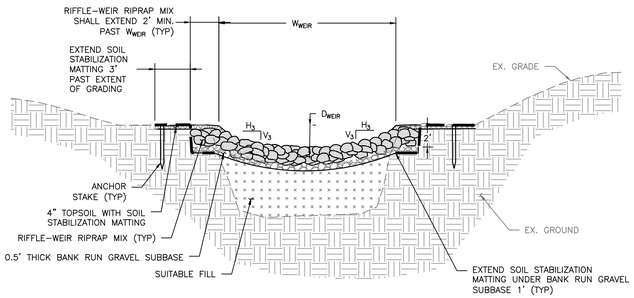
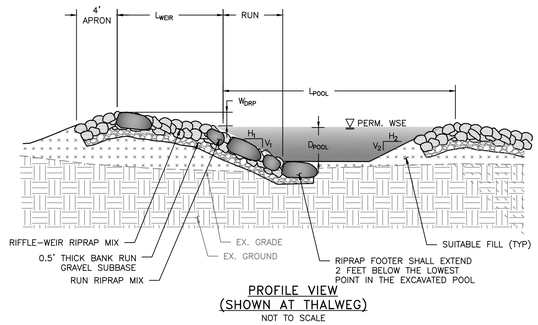


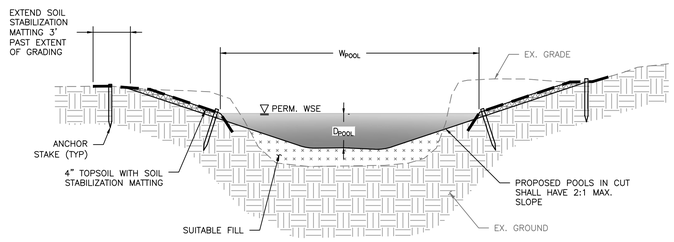
PLAN VIEW
NOT TO SCALE



TYPICAL SECTION VIEW THROUGH WEIR
NOT TO SCALE



PROFILE VIEW
(SHOWN AT THALWEG)
NOT TO SCALE



TYPICAL SECTION VIEW THROUGH POOL
NOT TO SCALE

RIFFLE-WEIR DETAILS

NOT TO SCALE

RIFFLE-WEIR CONSTRUCTION SPECIFICATIONS

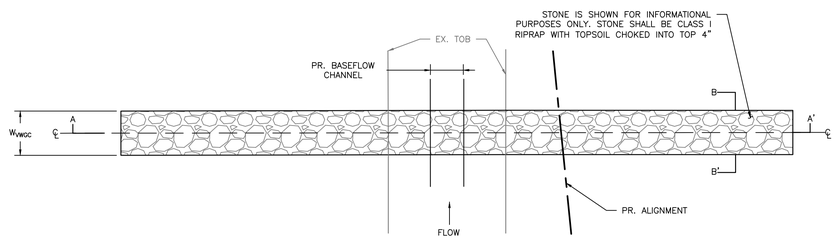
FOR MATERIAL AND SUBMITTAL REQUIREMENTS SEE THE TECHNICAL SPECIFICATIONS.

CONSTRUCTION

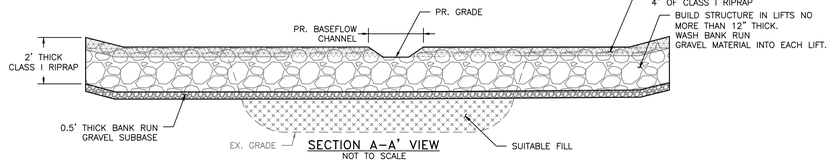
1. THE RIFFLE-WEIRS SHALL BE INSTALLED ACCORDING TO THE SEQUENCE OF CONSTRUCTION, THE CONSTRUCTION DRAWINGS, THESE SPECIFICATIONS, AND AS DIRECTED BY THE COUNTY.
2. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CONSTRUCT, INSTALL, AND MAINTAIN THE RIFFLE-WEIRS AS SHOWN ON THE CONTRACT DRAWINGS AND DESCRIBED IN THESE SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL REVIEW THE DETAILS AND SPECIFICATIONS WITH THE ENGINEER PRIOR TO CONSTRUCTION.
4. USING PUMP AROUND TECHNIQUES, THE STREAM SHALL BE DIVERTED AND THE CONSTRUCTION AREA DEWATERED AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLANS.
5. THE CONTRACTOR SHALL STAKE OUT THE EXTENTS OF EACH STRUCTURE AND IF REQUIRED, REVIEW THE STAKEOUT WITH THE ENGINEER PRIOR TO CONSTRUCTION.
6. SUITABLE FILL SHALL BE USED FOR FILLING THE FACILITY BOTTOM TO ACHIEVE THE GRADE NECESSARY FOR THE INSTALLATION OF THE WEIR. SUITABLE FILL SHALL BE PLACED IN LIFTS NO MORE THAN EIGHT (8) INCHES THICK AND COMPACTED. COMPACTION TESTING MAY BE REQUIRED AT THE DISCRETION OF THE INSPECTOR AT NO ADDITIONAL COST TO THE COUNTY.
7. RIPRAP FOOTER SHALL BE PLACED AT THE INTERFACE OF THE POOLS AND WEIRS AS SHOWN ON THE CONSTRUCTION DRAWINGS. RIPRAP FOOTER MUST EXTEND A MINIMUM OF TWO FEET BELOW THE PROPOSED POOL INVERT AND TWO FEET DOWNSTREAM INTO THE POOL TO PREVENT UNDERMINING. BANK RUN GRAVEL SUBBASE SHALL BE USED TO SEPARATE THE SUITABLE FILL AND THE RIPRAP THAT LINE THE FACILITY BOTTOM. ADDITIONAL RIFFLE-WEIR RIPRAP MIX SHALL BE PLACED ADJACENT TO THE FOOTER AT THE WEIR ELEVATION UPSTREAM OF THE FOOTER BOULDERS TO FORM THE WEIR CHANNEL PARABOLIC SHAPE. RIPRAP SHALL BE ARRANGED HORIZONTALLY IN THE CENTER OF THE CHANNEL AND THE ARMS ON EITHER SIDE OF THE CHANNEL SHALL BE EXTENDED PARABOLICALLY AT APPROXIMATELY A 20 DEGREE ANGLE LONGITUDINALLY TO THE CENTER OF THE POOL OR AS DIRECTED BY THE COUNTY. THE RIPRAP SHALL BE ARRANGED TO MAXIMIZE INTERLOCKING. THE FACE OF THE RIPRAP SHALL BE TILTED DOWNSTREAM TO OCCUPY HALF OF THE INCLINE MADE UP OVER THE ENTIRE LENGTH OF THE WEIR.
8. ONCE THE RUNS HAVE BEEN PLACED, FILL WITH RIFFLE-WEIR RIPRAP MIX TO FORM THE BACKSIDE OF THE WEIR. A MINIMUM OF SIX (6) INCHES OF BANK RUN GRAVEL SUBBASE SHALL BE USED TO SEPARATE THE SUITABLE FILL OR EXISTING GRADE AND THE BACKSIDE OF THE WEIR. A SMALL RIPRAP APRON SHALL BE PLACED WHERE THE RIPRAP MEETS THE POOL ON THE DOWNSTREAM SIDE. SMALL AND LARGE STONES SHALL BE MIXED TO MINIMIZE VOID SPACE.
9. RIFFLE-WEIR RIPRAP MIX SHOULD BE PLACED IN LAYERS AND STREAMBED MATERIAL SHALL BE WASHED INTO THE MIX AFTER EACH LAYER IS PLACED TO MINIMIZE VOID SPACE EXCEPT FOR THE TOP 4 INCHES WHICH DO NOT REQUIRE STREAMBED MATERIAL. STONE SHALL BE PLACED IN A MANNER SO THAT IT SHINGLES IN A DOWNSTREAM DIRECTION, MINIMIZES VOID SPACE AND PROMOTES INTERLOCKING. DUMPING OF STONE WILL NOT BE PERMITTED. VOID SPACE MUST BE MINIMIZED TO THE SATISFACTION OF THE COUNTY PRIOR TO ACCEPTANCE OF EACH CONSTRUCTED WEIR.
10. SURFACE ELEVATIONS OF THE STRUCTURES SHALL CONFORM TO THE PROPOSED DESIGN STREAM PROFILES AND CROSS SECTIONS SPECIFIED IN THE CONTRACT DOCUMENTS. TOLERANCES OF THE FINISHED STRUCTURE ARE AS FOLLOWS:

    SURFACE ELEVATION: +/- 0.2 FEET
    SLOPE: +/- 0.1 PERCENT

11. PLACED MATERIAL NOT CONFORMING TO THE SPECIFIED LIMITS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE COUNTY AT NO ADDITIONAL COST.



PLAN VIEW
NOT TO SCALE



SECTION A-A' VIEW
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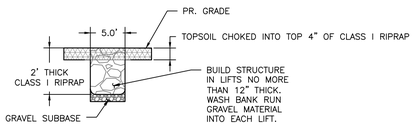

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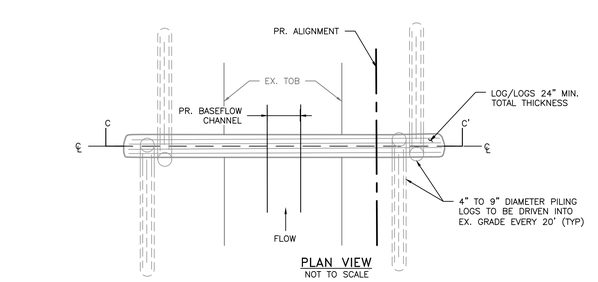
NOT TO SCALE



PLAN VIEW
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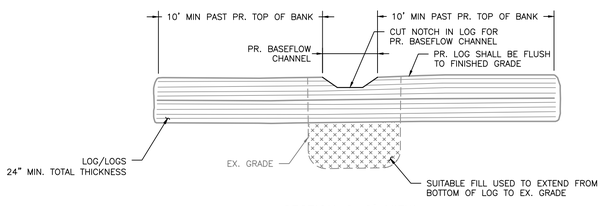
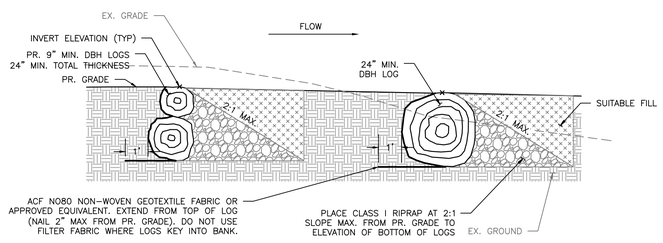
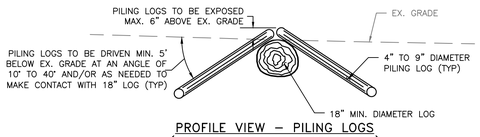


SECTION C-C' VIEW
NOT TO SCALE



PROFILE VIEW (IN CUT AND FILL)
NOT TO SCALE



PROFILE VIEW - PILING LOGS
(SHOWN THROUGH FLOODPLAIN)
NOT TO SCALE

VALLEY WIDE GRADE CONTROL DETAILS

NOT TO SCALE

VALLEY WIDE GRADE CONTROL NOTES:
1. IN THE FLOODPLAIN AND OTHER AREAS WITH UNCONSOLIDATED SOIL, PLACE BANK RUN GRAVEL AS NEEDED TO CREATE A STABLE SUBBASE FOR THE ROCK STRUCTURE. CONTRACTOR SHALL TRACK OVER BANK RUN GRAVEL MULTIPLE TIMES TO UNIFORMLY COMPACT AND ENSURE STABLE SUBBASE.
2. SEE PROFILE AND CROSS-SECTIONS FOR PROPOSED GRADES.
3. BANK RUN GRAVEL SHALL BE WASHED INTO EACH LIFT OF CLASS I RIPRAP THAT IS PLACED TO FILL/MINIMIZE VOID SPACE IN CLASS I RIPRAP EXTENDING ACROSS THE FLOODPLAIN, MINIMIZING VOID SPACE IN THE CLASS I RIPRAP IS ESSENTIAL TO THE SUCCESS OF THE VALLEY WIDE GRADE CONTROL STRUCTURE TO ENSURE SURFACE FLOW ACROSS THE FLOODPLAIN.
4. PLACE RIPRAP IN 12-INCH THICK LIFTS. BANK RUN GRAVEL SHALL BE WASHED INTO EACH LIFT OF RIPRAP TO MINIMIZE VOID SPACE AND ENSURE SURFACE FLOW.
5. SMALL AND LARGE STONES SHALL BE MIXED TO MINIMIZE VOID SPACES. STONE MUST BE PLACED IN A MANNER TO PROMOTE INTERLOCKING. DUMPING OF STONE WILL NOT BE PERMITTED.
6. STONE MUST BE BLUE/GREY/BROWN IN COLOR. NO WHITE STONE SHALL BE ALLOWED.

LOG GRADE CONTROL DETAILS

NOT TO SCALE

LOG GRADE CONTROL NOTES:
1. LOGS SHALL OVERLAP 2.0' MIN. AND SHALL BE STAGGERED IF MULTIPLE FLOODPLAIN LOGS ARE UTILIZED TO ACHIEVE THE REQUIRED TOTAL FLOODPLAIN LENGTH.
2. UP TO TWO LOGS MAY BE UTILIZED TO ACHIEVE REQUIRED MINIMUM THICKNESS OF 24", AND EACH LOG SHALL SHALL BE 9" MIN. DBH. THE LARGEST, HARDIEST LOGS WITH HIGH SPECIFIC GRAVITIES SHALL BE FAVORED FOR USE. LOGS MEETING THE 24" MIN. DBH REQUIREMENT SHALL BE UTILIZED FIRST AND THE SUPPLY THEREOF SHALL BE EXHAUSTED PRIOR TO EXERCISING THE TWO LOG OPTION.
3. THE TOP ELEVATION OF THE ENTIRE LOG WITHIN THE BASEFLOW CHANNEL SHALL BE NO CLOSER THAN 0.3' TO THE TOP OF BANK. IF THE LOG IS NOT COMPLETELY STRAIGHT, THE LOW POINT OF THE LOG SHALL BE CENTERED IN THE BASEFLOW CHANNEL. IF THIS IS NOT POSSIBLE, A 2" DEEP BY 6" WIDE NOTCH SHALL BE CUT IN THE LOG IN THE CENTER OF THE BASEFLOW CHANNEL.

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BAYLAND JOB NO. 4_4601

BILLING NO. XXXXXX

EG-SWMENG- XXXXXX-XXXX #XXXX

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 200966, EXPIRATION DATE: 01/16/2025.

S/C PLAN # N/A

GP # N/A

REVISIONS

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
DETAILS

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS

SCALE : AS SHOWN
DATE : 05/30/23

DRAWING NO. DE-01 OF DE-02

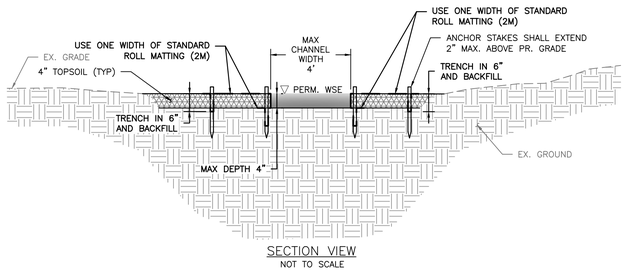
SHEET NO. 16 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1 inch

Z:\4_4601_TAYLOR_CREEK_STREAM_RESTORATION\CAD Files\Sheet Files\4_4601_DEA01.dwg



SECTION VIEW
NOT TO SCALE

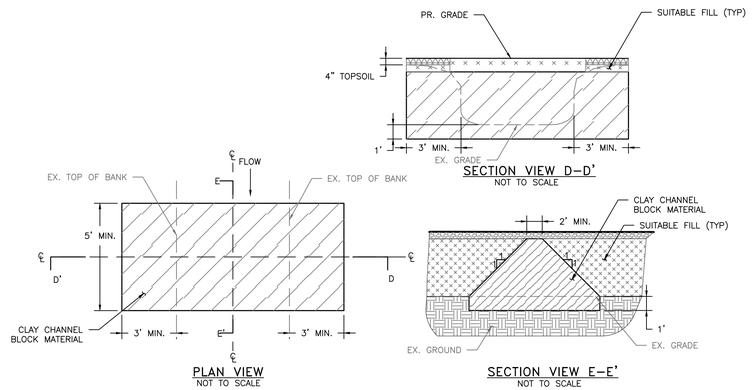
BASEFLOW CHANNEL DETAIL

NOT TO SCALE

PERMANENT STABILIZATION FOR DISTURBED FLOODPLAIN/TERRACE ADJACENT TO THE RESTORED STREAM CHANNEL WILL CONSIST OF BIODEGRADABLE SOIL STABILIZATION MATTING WITH 4 INCHES OF TOPSOIL AND SEED INCLUDING AT THE BASEFLOW CHANNEL AS SHOWN ON THIS SHEET AND AT THE DIRECTION OF THE COUNTY AND/OR ENGINEER.

FLOODPLAIN MICROTOPOGRAPHY

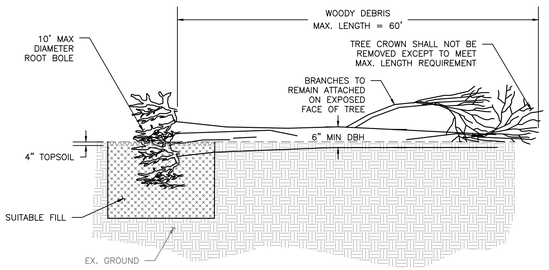
FLOODPLAIN MICROTOPOGRAPHY NOTES:
1. FLOODPLAIN MICROTOPOGRAPHY SHALL BE INCORPORATED INTO THE FLOODPLAIN WITHIN THE LIMIT OF DISTURBANCE AS DIRECTED BY THE COUNTY/ENGINEER.
2. FLOODPLAIN MICROTOPOGRAPHY SHALL CONSIST OF SCARIFYING THE PROPOSED SURFACE AND INSTALLING HUMMOCKS ORIENTED PARALLEL TO THE DIRECTION OF FLOW AND INSTALLED IN A RANDOM PATTERN.
3. HUMMOCKS SHALL FEATURE A MAXIMUM ELEVATION DIFFERENCE OF 0.5 FEET ABOVE PROPOSED GRADE.
4. NO SEPARATE PAYMENT WILL BE MADE FOR THE CREATION OF FLOODPLAIN MICROTOPOGRAPHY.



CLAY CHANNEL BLOCK DETAILS

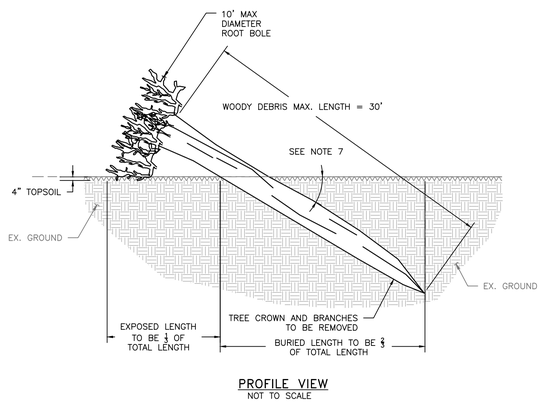
NOT TO SCALE

CLAY CHANNEL BLOCK NOTES:
1. CLAY CHANNEL BLOCK MATERIAL (CLAY FILL) SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) DESIGNATIONS SC, CH, OR CL, WITH A MINIMUM OF 35 PERCENT PASSING THE #200 SIEVE. CLAY FILL SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 2", AND FROZEN OR OBJECTIONABLE MATERIAL. MATERIAL USED FOR CLAY CHANNEL BLOCK CONSTRUCTION SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.
2. CLAY CHANNEL BLOCK MATERIAL SHALL BE COMPACTED TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY. COMPACTED CLAY FILL SHALL CONFORM TO A MINIMUM 93 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO METHOD T–99 OR ASTM D698. CLAY FILL SHALL BE PLACED IN 8–INCH MAXIMUM LIFTS AND EACH LIFT SHALL BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS, AND/OR HAND TAMPERS. COMPACTION OF EACH CLAY CHANNEL BLOCK SHALL BE TESTED BY THE ONSITE GEOTECHNICAL ENGINEER AND RESULTS OF THE COMPACTION TESTING SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL.
3. IN INSTANCES WHERE GROUNDWATER IS ENCOUNTERED DURING EXCAVATION FOR, OR DURING INSTALLATION OF CLAY CHANNEL BLOCKS, THE CONTRACTOR MAY NEED TO OPERATE SUMP PIT OR OTHER DEWATERING DEVICE(S) TO DRAWDOWN LOCAL GROUNDWATER AND TO ALLOW FOR REQUIRED COMPACTION.
4. CLAY CHANNEL BLOCK DIMENSIONS MAY BE ADJUSTED IN THE FIELD UNDER THE SUPERVISION OF THE COUNTY.

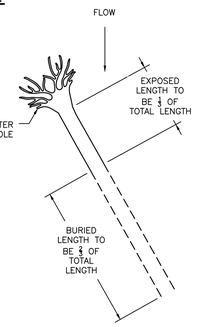


PROFILE VIEW
NOT TO SCALE

WOODY DEBRIS INSTALLATION OPTION 1



PROFILE VIEW
NOT TO SCALE



PLAN VIEW
NOT TO SCALE

WOODY DEBRIS INSTALLATION OPTION 2

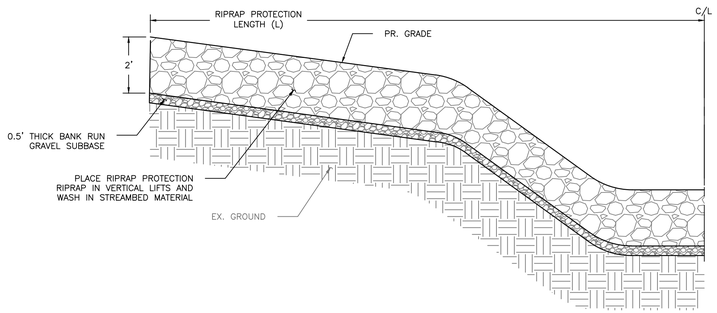
WOODY DEBRIS INSTALLATION OPTION 1 IS PREFERRED. WOODY DEBRIS INSTALLATION OPTION 2 MAY BE USED IN WET AREAS.

LARGE WOODY DEBRIS DETAILS

NOT TO SCALE

LARGE WOODY DEBRIS NOTES:
1. EXISTING TREES TO BE REMOVED WITHIN THE LIMIT OF DISTURBANCE SHALL NOT BE DISPOSED OF OFFSITE WITHOUT PERMISSION FROM THE COUNTY.
2. ALL REMOVED TREES THAT ARE NOT USED IN OTHER PROPOSED STRUCTURES SHALL BE PLACED WITHIN THE FLOODPLAIN FOLLOWING THE SPECIFICATIONS WITHIN THE WOODY DEBRIS DETAIL OR AT THE DIRECTION OF THE COUNTY.
3. WOODY DEBRIS SHALL BE PLACED AT THE DIRECTION OF THE ENGINEER/COUNTY AND WITHIN THE FLOODPLAIN A MINIMUM OF 5 FEET FROM THE PROPOSED CHANNEL TOP OF BANK AND VALLEY WALL TOE OF SLOPE AND A MINIMUM OF 10 FEET LATERAL AND VERTICAL CLEARANCE FROM ALL UTILITIES.
4. IF REQUIRED BY THE ENGINEER/COUNTY, BRANCHES SHALL BE PRUNED FROM PORTION OF TREE TO BE BURIED BELOW GRADE.
5. TIMBER FOR USE IN PROPOSED WOODY DEBRIS STRUCTURE SHALL BE HARVESTED ON SITE. NO INVASIVE SPECIES SHALL BE UTILIZED.
6. WOODY DEBRIS SHALL ALWAYS BE ORIENTED WITH THE ROOT BOLE UPSTREAM.
7. ANGLE OF INSTALLATION MAY RANGE FROM 30 DEGREES TO VERTICAL (90 DEGREES) AS DIRECTED BY THE COUNTY.
8. WOODY DEBRIS INSTALLATION OPTION 1 IS PREFERRED. WOODY DEBRIS INSTALLATION OPTION 2 MAY BE USED IN WET AREAS.
9. WOODY DEBRIS PLACEMENT TO BE DIRECTED IN THE FIELD.

SECTION VIEW
NOT TO SCALE



PROFILE VIEW
NOT TO SCALE

RIPRAP PROTECTION DETAILS

NOT TO SCALE

RIPRAP PROTECTION NOTES:
1. RIPRAP PROTECTION RIPRAP SHALL CONSIST OF 50% CL I RIPRAP AND 50% CL II RIPRAP MIX BY PARTS. RIPRAP SHALL BE MIXED PRIOR TO INSTALLATION.
2. SMALL AND LARGE STONES SHALL BE MIXED TO MINIMIZE VOID SPACES. STONE MUST BE PLACED IN A MANNER TO PROMOTE INTERLOCKING. DUMPING OF STONE WILL NOT BE PERMITTED.
3. RIPRAP SHALL BE PLACED IN LAYERS WITH A MAXIMUM THICKNESS OF 12 INCHES. STREAMBED MATERIAL SHALL BE WASHED INTO EACH LIFT OF RIPRAP TO ENSURE SURFACE FLOW.
4. STONE MUST BE BLUE/GREY/BROWN IN COLOR. NO WHITE STONE SHALL BE ALLOWED.

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BAYLAND JOB NO. 4_4601

BILLING NO. XXXXXX

EG–SWMENG– XXXXXX–XXXX #XXXX

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S/C PLAN # N/A

GP # N/A

REVISIONS

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION DETAILS

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS

SCALE : AS SHOWN
DATE : 05/30/23

DRAWING NO. DE–02 OF DE–02

SHEET NO. 17 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1" = 1'

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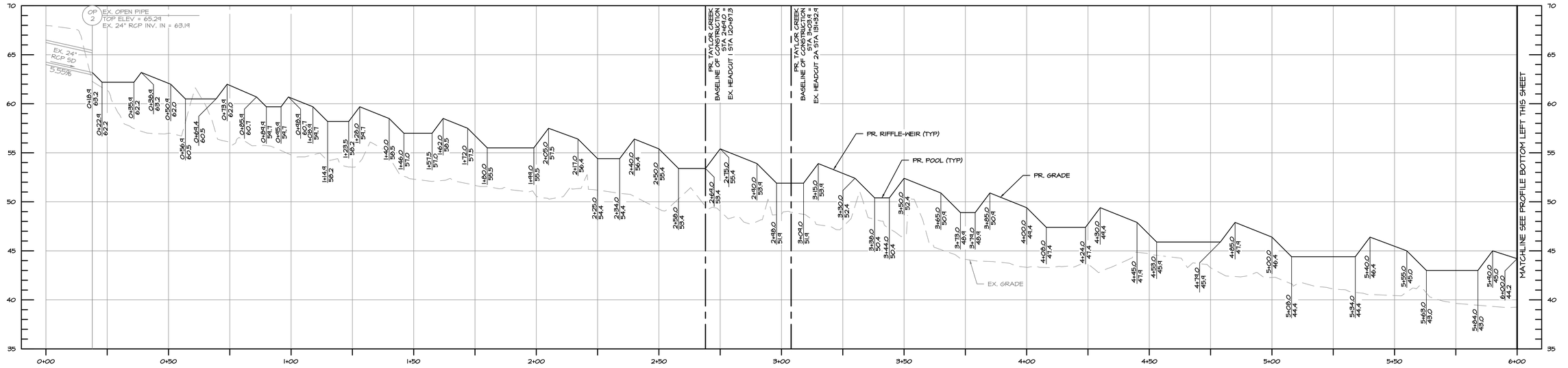
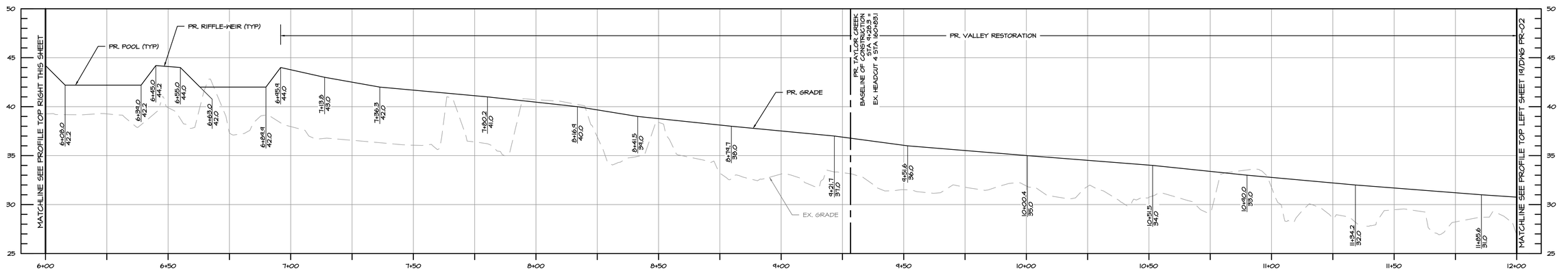


PROFILE TAYLOR CREEK BASELINE OF CONSTRUCTION STA: 0+00 TO STA: 6+00

SCALE: HORZ. 1" = 20'
VERT. 1" = 5'



PROFILE TAYLOR CREEK BASELINE OF CONSTRUCTION STA: 6+00 TO STA: 12+00

SCALE: HORZ. 1" = 20'
VERT. 1" = 5'

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION PROFILE

0 10 20 40
1 INCH = 20 FEET

0 2.5 5 10
1 INCH = 5 FEET

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BILLING NO. XXXXXX

EG-SWMENG- XXXXXX-XXXX #XXXX

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S/C PLAN # N/A

GP # N/A

REVISIONS

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS

SCALE : 1" = 20'
DATE : 05/30/23

DRAWING NO. PR-01 OF PR-03

SHEET NO. 18 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1 inch

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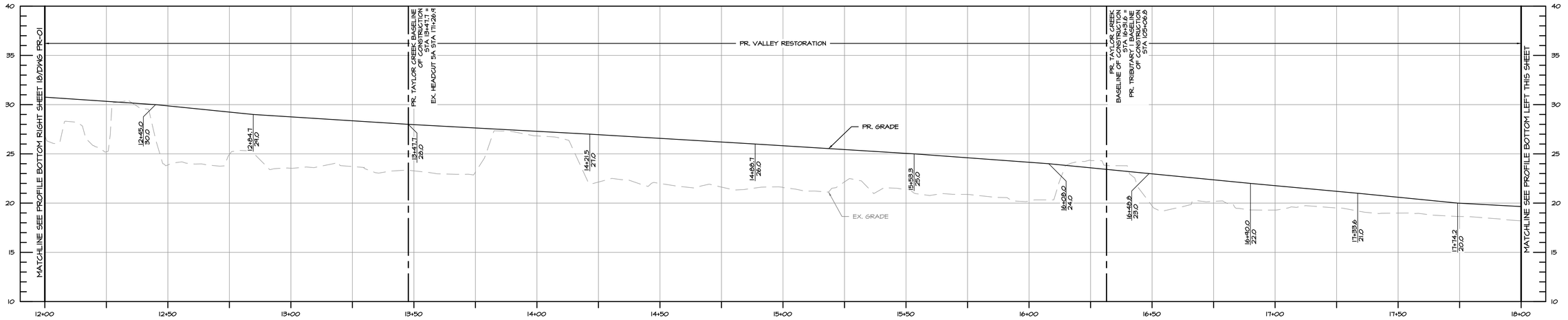
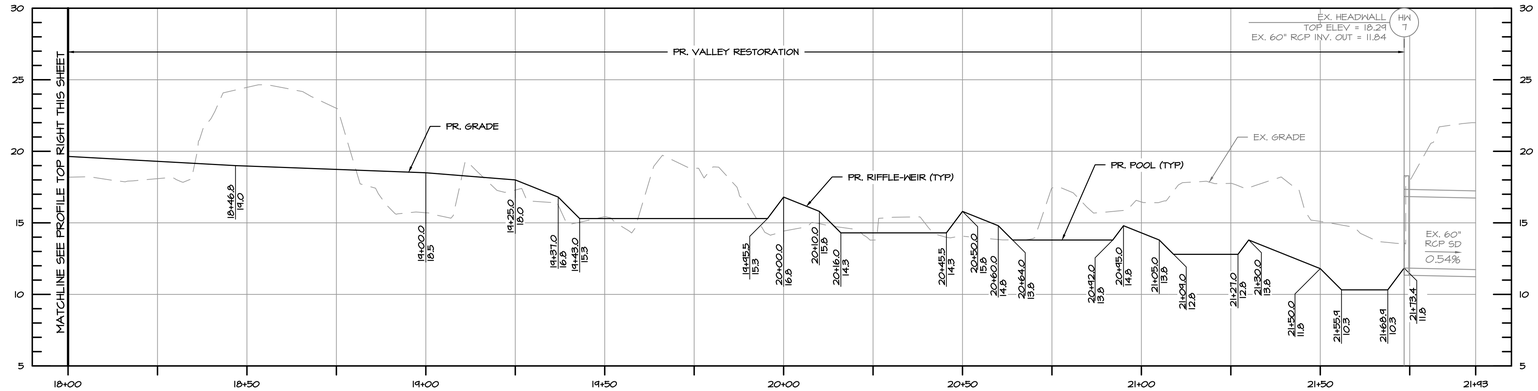


PROFILE TAYLOR CREEK BASELINE OF CONSTRUCTION STA: 12+00 TO STA: 18+00

SCALE: HORZ. 1" = 20'
VERT. 1" = 5'



PROFILE TAYLOR CREEK BASELINE OF CONSTRUCTION STA: 18+00 TO STA: 21+93

SCALE: HORZ. 1" = 20'
VERT. 1" = 5'

0 10 20 40
1 INCH = 20 FEET

0 2.5 5 10
1 INCH = 5 FEET

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S/C PLAN # N/A

GP # N/A

REVISIONS

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION PROFILE

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS

SCALE : 1" = 20'
DATE : 05/30/23

DRAWING NO. PR-02 OF PR-03

SHEET NO. 19 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1 inch

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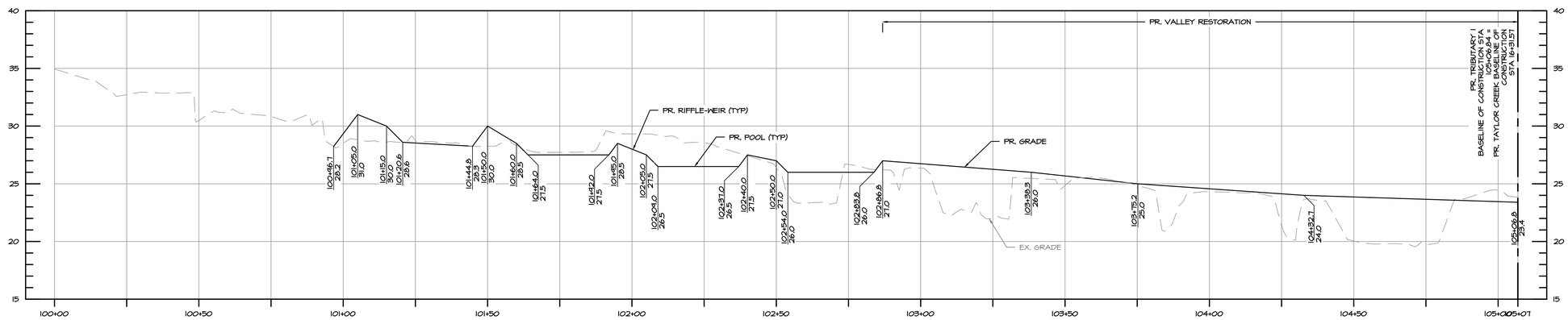
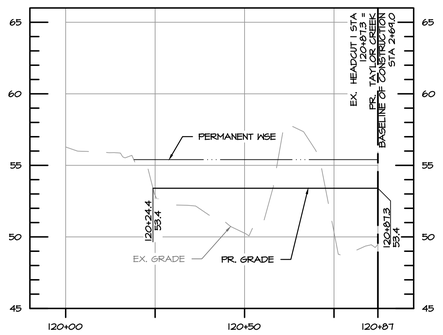


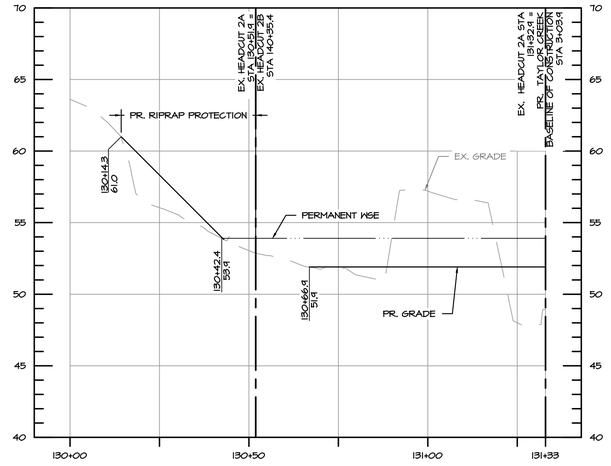
PROFILE TRIBUTARY 1 BASELINE OF CONSTRUCTION STA: 100+00 TO STA: 105+07

SCALE: HORZ. 1" = 20'
VERT. 1" = 5'



PROFILE EX. HEADCUT 1 STA: 120+00 TO STA: 120+87

SCALE: HORZ. 1" = 20'
VERT. 1" = 5'



PROFILE EX. HEADCUT 2A STA: 130+00 TO STA: 131+33

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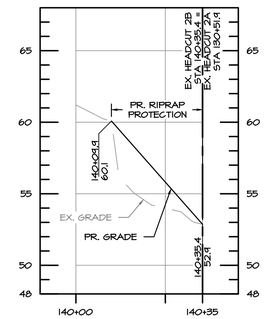
VERT. 1" = 5'



PROFILE EX. HEADCUT 2B STA: 140+00 TO STA: 140+35

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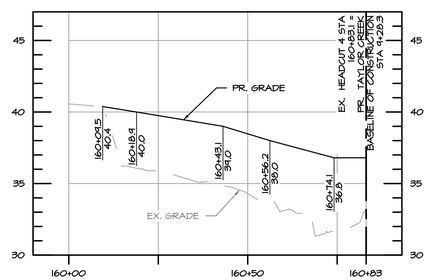
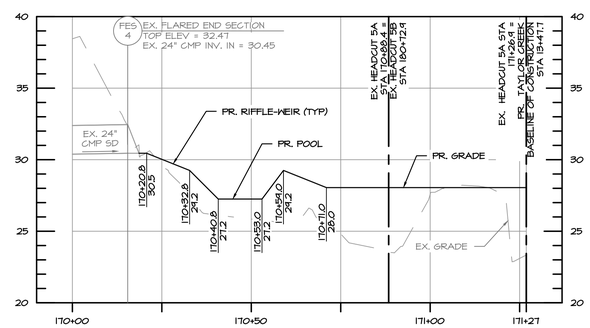
VERT. 1" = 5'



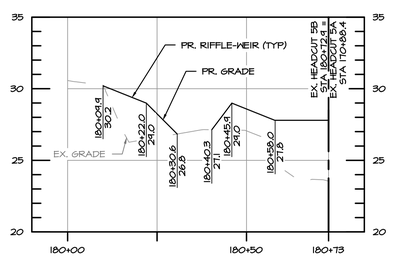
PROFILE EX. HEADCUT 4 STA: 160+00 TO STA: 160+83

SCALE: HORZ. 1" = 20'
VERT. 1" = 5'



PROFILE EX. HEADCUT 5A STA: 170+00 TO STA: 171+27

SCALE: HORZ. 1" = 20'
VERT. 1" = 5'



PROFILE EX. HEADCUT 5B STA: 180+00 TO STA: 180+73

SCALE: HORZ. 1" = 20'
VERT. 1" = 5'

30% DESIGN DRAWINGS

0 10 20 40
1 INCH = 20 FEET

0 2.5 5 10
1 INCH = 5 FEET

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EG-SWMENG- XXXXXX-XXXX #XXXX

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S/C PLAN # N/A	REVISIONS
GP # N/A	

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
PROFILE

DRAWN BY : MJG	SCALE : 1" = 20'
DESIGNED BY : MKS/KJM	DATE : 05/30/23
REVIEWED BY : SMC/CMS	
DRAWING NO. PR-03 OF PR-03	SHEET NO. 20 OF 29

BID No.:

HCG DWG ID No.:

SCALE 1 inch

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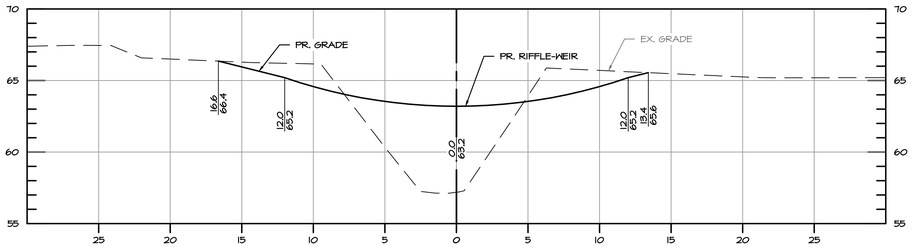
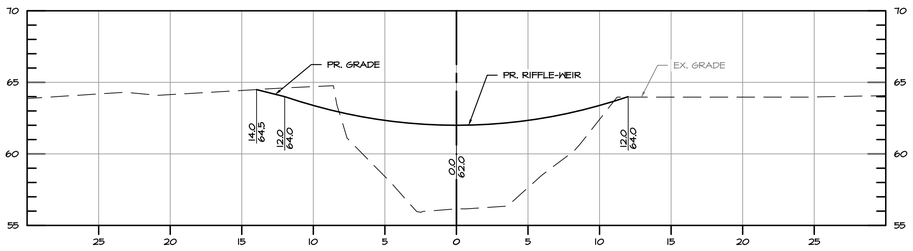
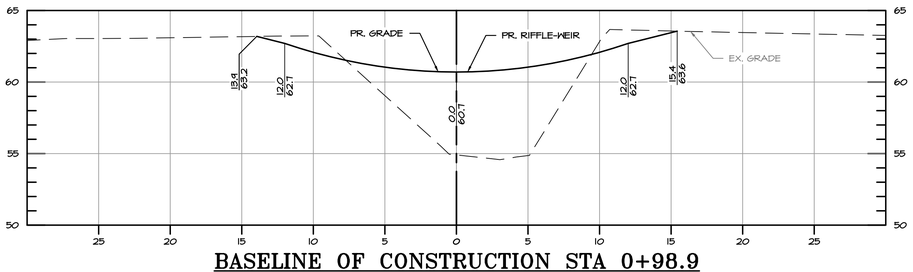


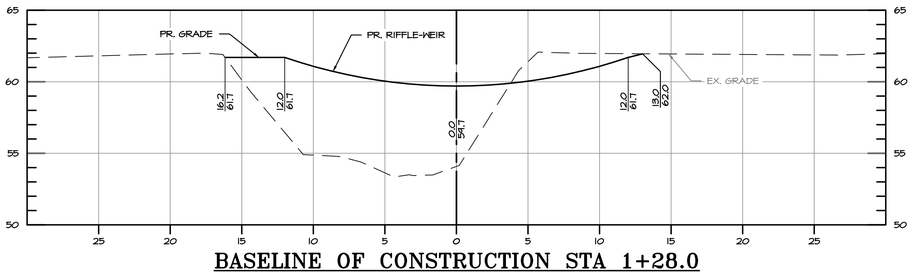
BASELINE OF CONSTRUCTION STA 0+38.9



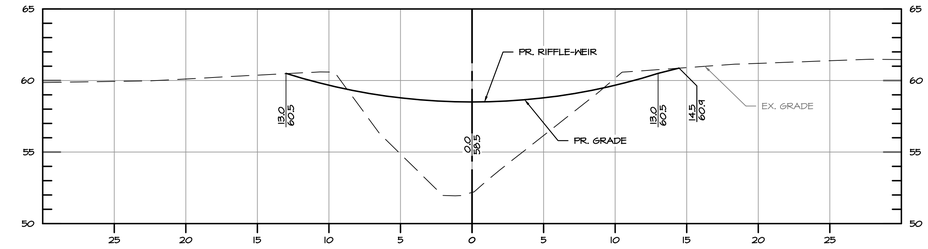
BASELINE OF CONSTRUCTION STA 0+73.9



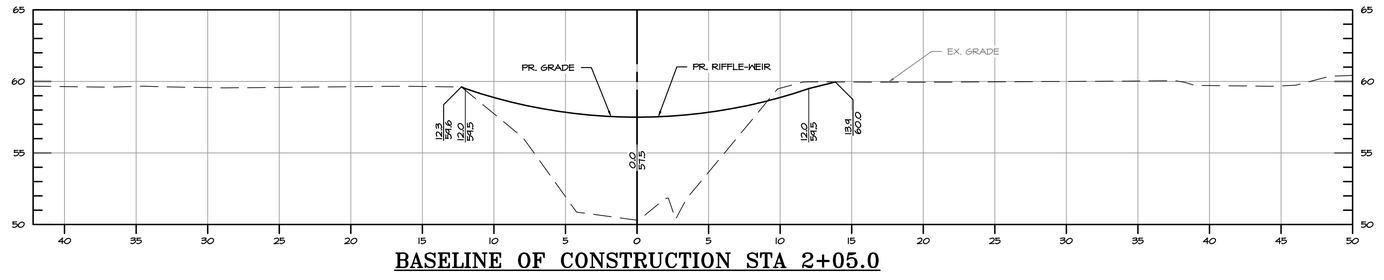
BASELINE OF CONSTRUCTION STA 0+98.9



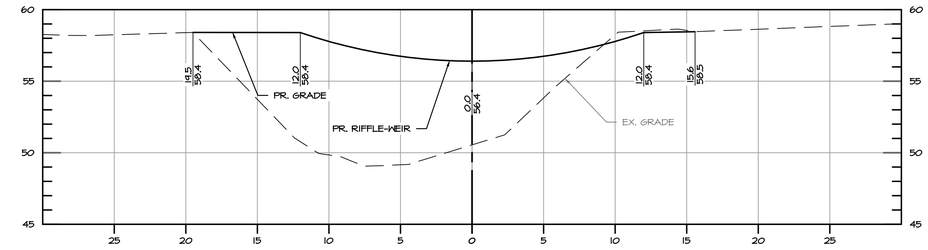
BASELINE OF CONSTRUCTION STA 1+28.0



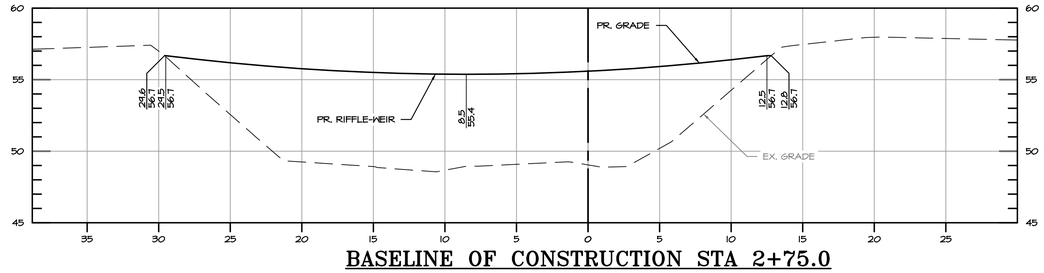
BASELINE OF CONSTRUCTION STA 1+62.0



BASELINE OF CONSTRUCTION STA 2+05.0



BASELINE OF CONSTRUCTION STA 2+40.0



BASELINE OF CONSTRUCTION STA 2+75.0

0 2.5 5 10
1 INCH = 5 FEET

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BAYLAND JOB NO. 4_4601

BILLING NO. XXXXXX

EG-SWMENG- XXXXXX-XXXX #XXXX

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 200966, EXPIRATION DATE: 01/16/2025.

S/C PLAN # N/A

GP # N/A

REVISIONS

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
CROSS SECTION

DRAWN BY : MJG

DESIGNED BY : MKS/KJM

REVIEWED BY : SMC/CMS

SCALE : 1" = 5'

DATE : 05/30/23

DRAWING NO. XS-01 OF XS-08

SHEET NO. 21 OF 29

BID No.:

HCG DWG ID No.:

SCALE: inch

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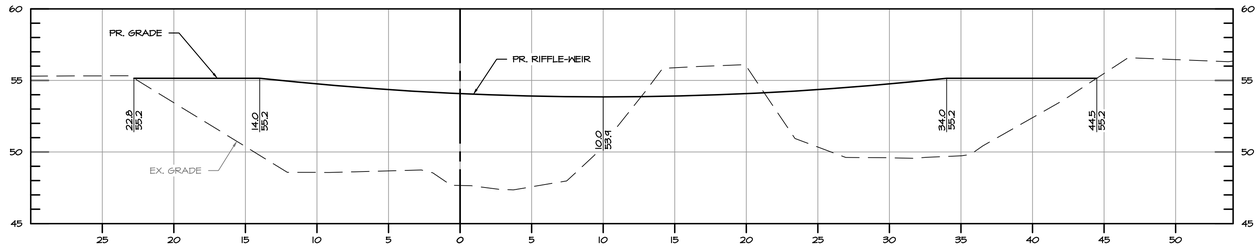
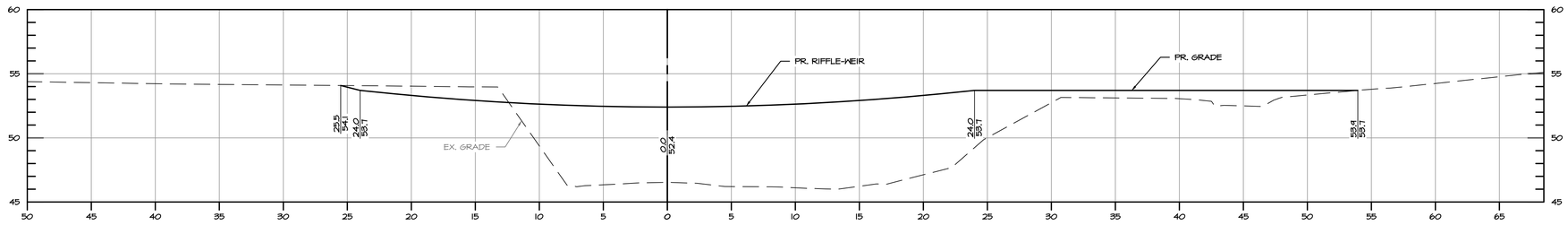
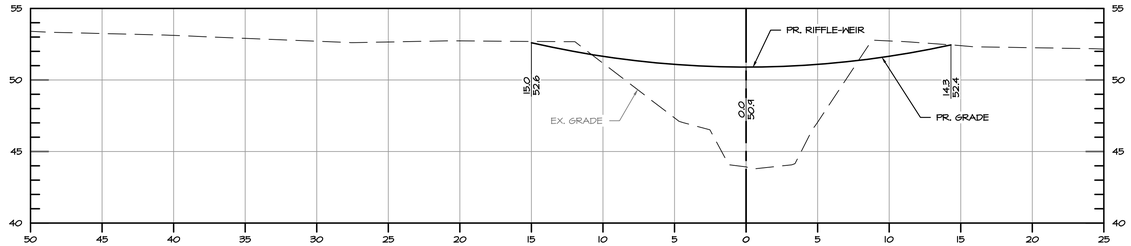


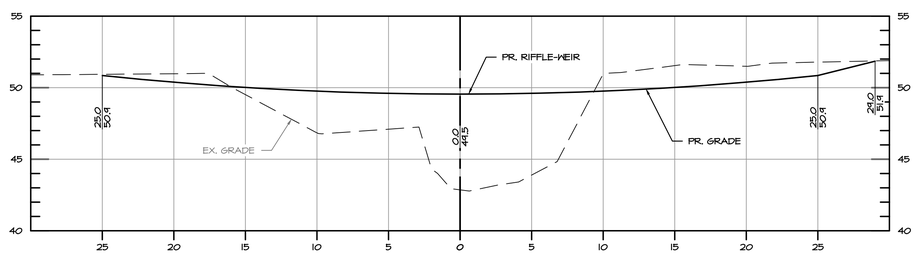
BASELINE OF CONSTRUCTION STA 3+15.0



BASELINE OF CONSTRUCTION STA 3+50.0



BASELINE OF CONSTRUCTION STA 3+85.0



BASELINE OF CONSTRUCTION STA 4+30.0

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
CROSS SECTION

0 2.5 5 10

1 INCH = 5 FEET

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BAYLAND JOB NO. 4_4601

BILLING NO. XXXXXX

EG-SWMENG- XXXXXX-XXXX #XXXX

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S/C PLAN # N/A

GP # N/A

REVISIONS

DRAWN BY : MJG

DESIGNED BY : MKS/KJM

REVIEWED BY : SMC/CMS

SCALE : 1" = 5'

DATE : 05/30/23

DRAWING NO. XS-02 OF XS-08

SHEET NO. 22 OF 29

BID No.:

HCG DWG ID No.:

SCALE 1 inch

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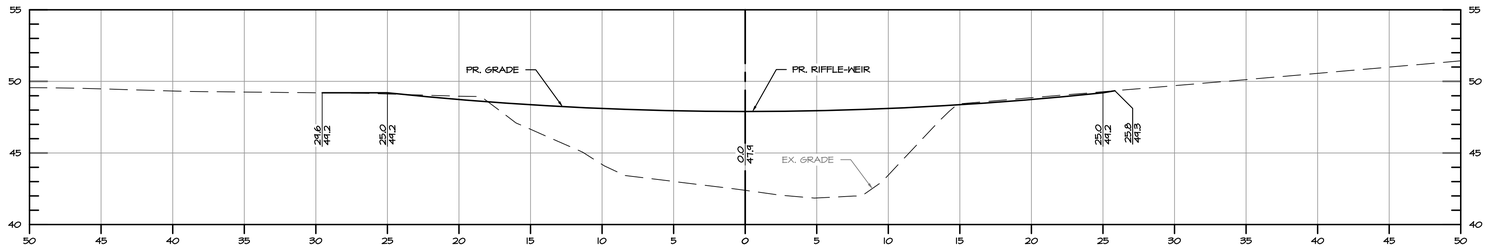

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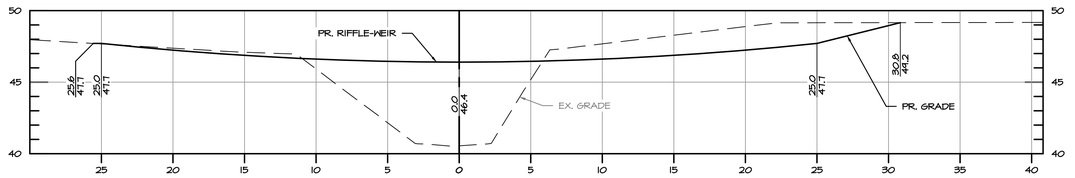
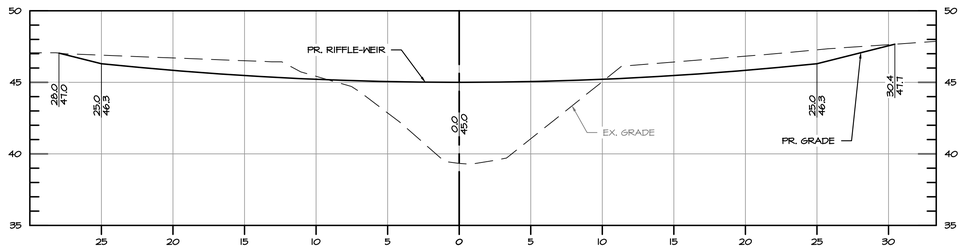
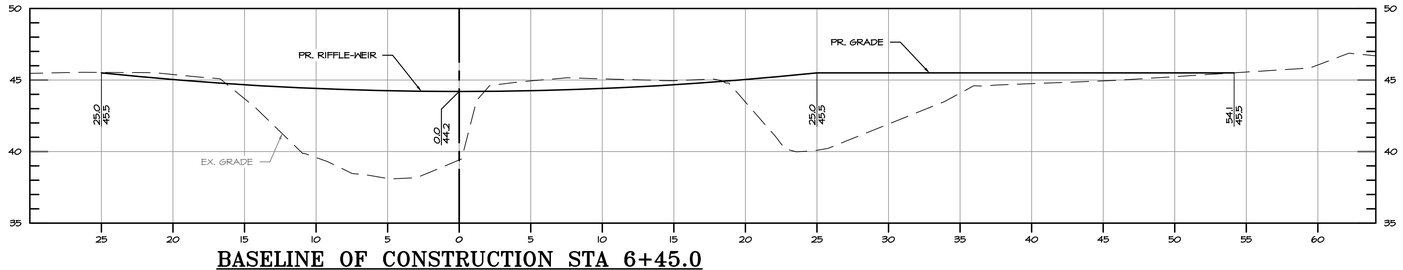


BASELINE OF CONSTRUCTION STA 5+40.0



BASELINE OF CONSTRUCTION STA 5+90.0



BASELINE OF CONSTRUCTION STA 6+45.0

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
CROSS SECTION

0 2.5 5 10
1 INCH = 5 FEET

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BILLING NO. XXXXXX

EG-SWMENG- XXXXXX-XXXX #XXXX

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S/C PLAN # N/A

GP # N/A

REVISIONS

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS

SCALE : 1" = 5'
DATE : 05/30/23

DRAWING NO. XS-03 OF XS-08

SHEET NO. 23 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1inch

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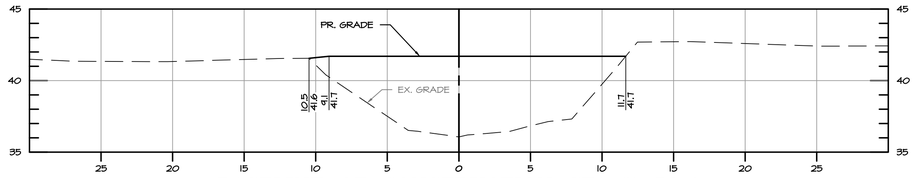
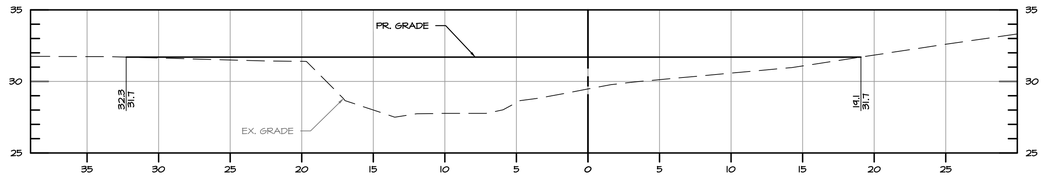


BASELINE OF CONSTRUCTION STA 7+50.0



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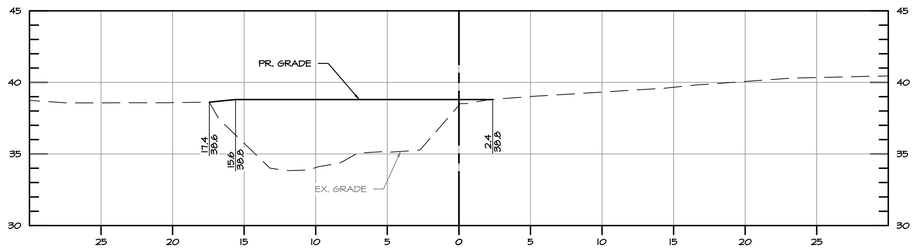

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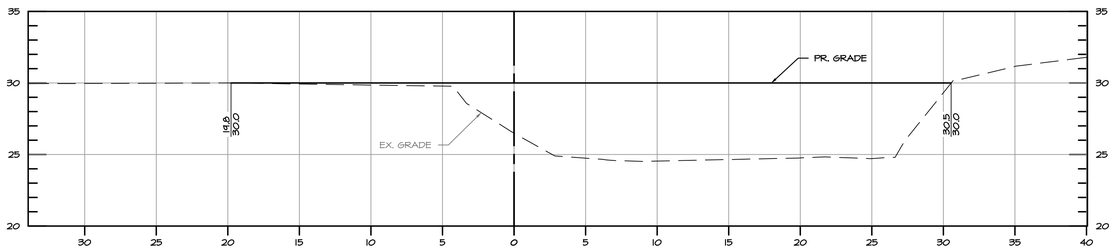

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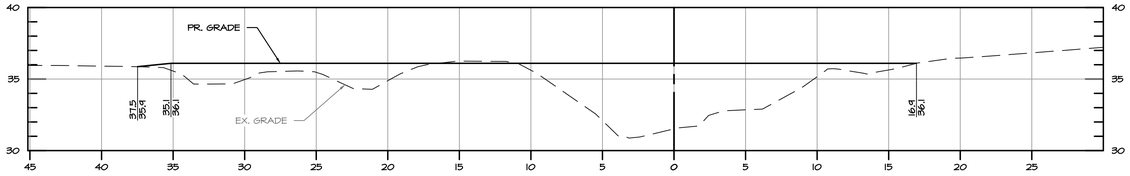
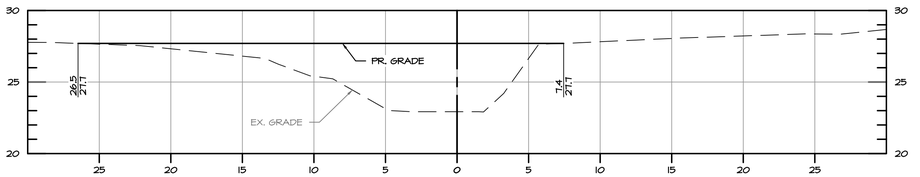
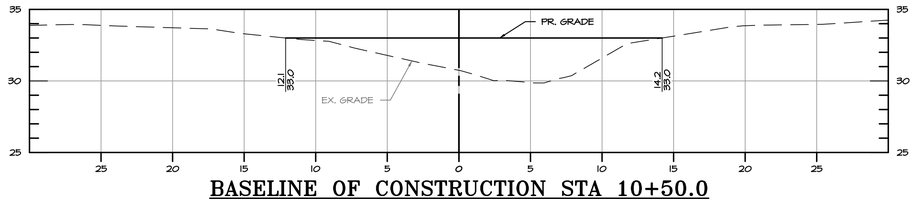


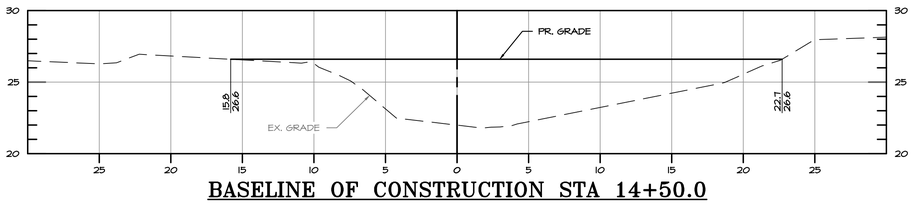
BASELINE OF CONSTRUCTION STA 9+50.0



BASELINE OF CONSTRUCTION STA 13+70.0



BASELINE OF CONSTRUCTION STA 10+50.0



BASELINE OF CONSTRUCTION STA 14+50.0

NOTE:
BASEFLOW CHANNEL IS NOT DRAWN IN CROSS SECTION VIEW.
FOR LOCATIONS, SEE SHEET 12/DWG SR-02 TO SHEET 14/DWG SR-04.
FOR DIMENSIONS, SEE SHEET 17/DWG DE-02.

0 2.5 5 10
1 INCH = 5 FEET

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BILLING NO. XXXXXX

EG-SWMENG- XXXXXX-XXXX #XXXX

PROFESSIONAL CERTIFICATION

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S/C PLAN # N/A

GP # N/A

REVISIONS

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
CROSS SECTION

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS

SCALE : 1" = 5'
DATE : 05/30/23

DRAWING NO. XS-04 OF XS-08

SHEET NO. 24 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1 inch

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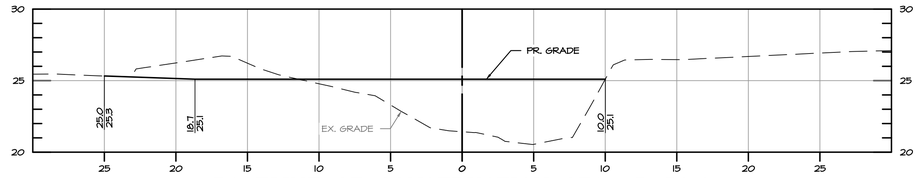
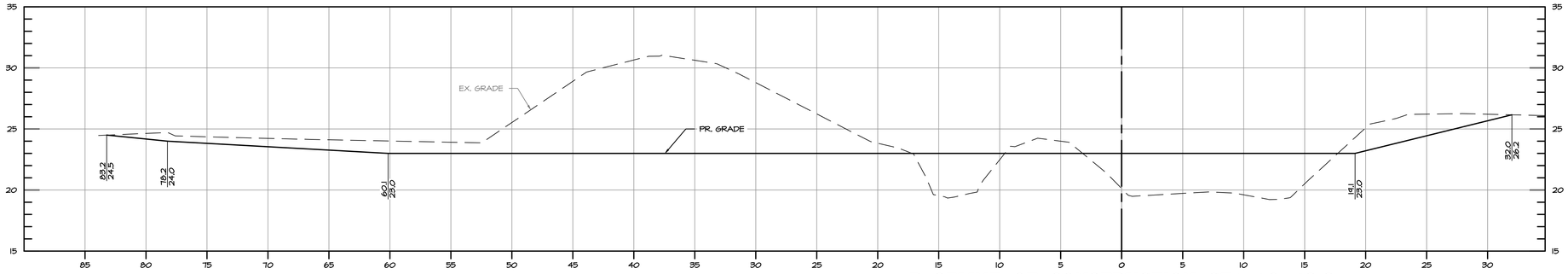
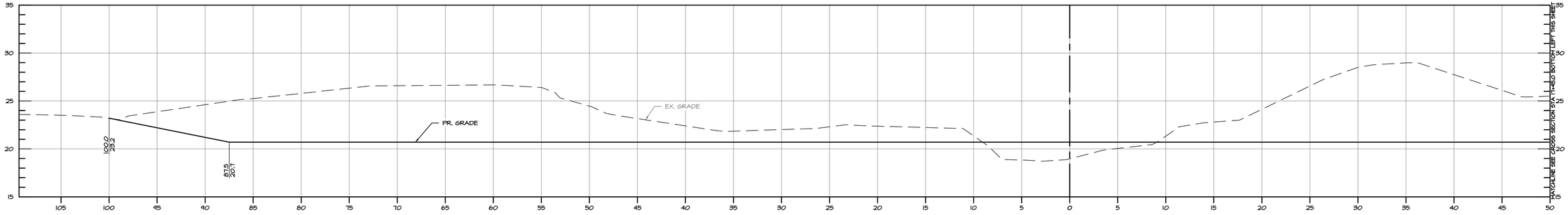


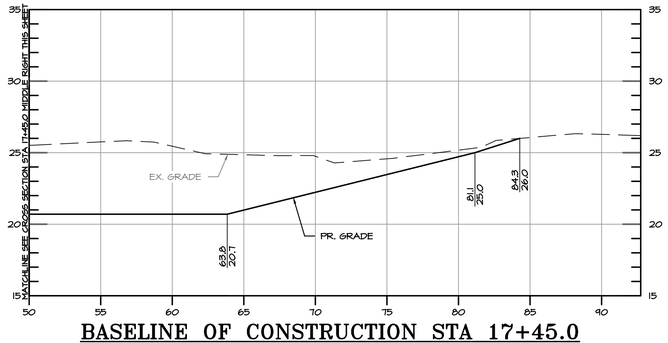
BASELINE OF CONSTRUCTION STA 15+50.0



BASELINE OF CONSTRUCTION STA 16+48.8



BASELINE OF CONSTRUCTION STA 17+45.0



BASELINE OF CONSTRUCTION STA 17+45.0

NOTE:
BASEFLOW CHANNEL IS NOT DRAWN IN CROSS SECTION VIEW.
FOR LOCATIONS, SEE SHEET 12/DWG SR-02 TO SHEET 14/DWG SR-04.
FOR DIMENSIONS, SEE SHEET 17/DWG DE-02.

0 2.5 5 10
1 INCH = 5 FEET

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BILLING NO. XXXXXX

EG-SWMENG- XXXXXX-XXXX #XXXX

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S/C PLAN # N/A

GP # N/A

REVISIONS

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
CROSS SECTION

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS

SCALE : 1" = 5'
DATE : 05/30/23

DRAWING NO. XS-05 OF XS-08

SHEET NO. 25 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1 inch

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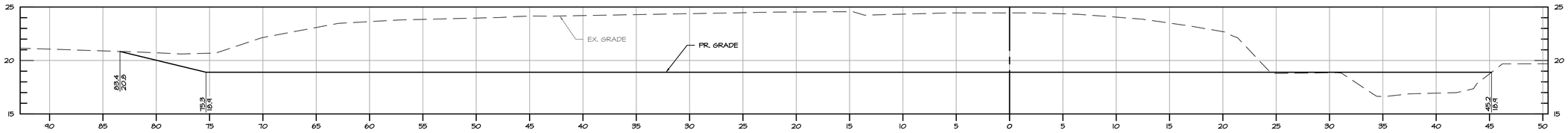
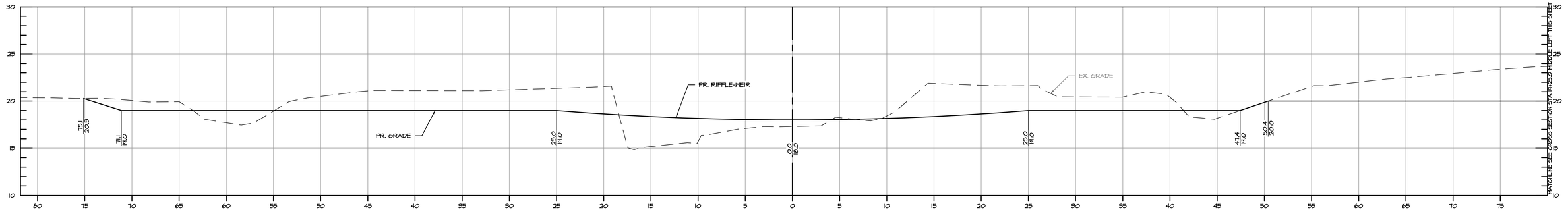
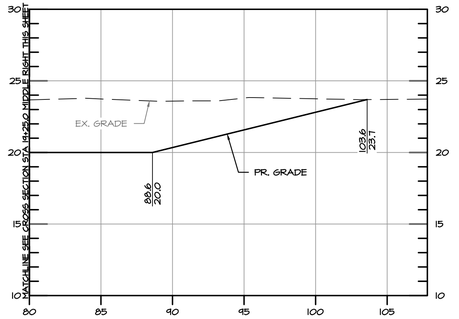


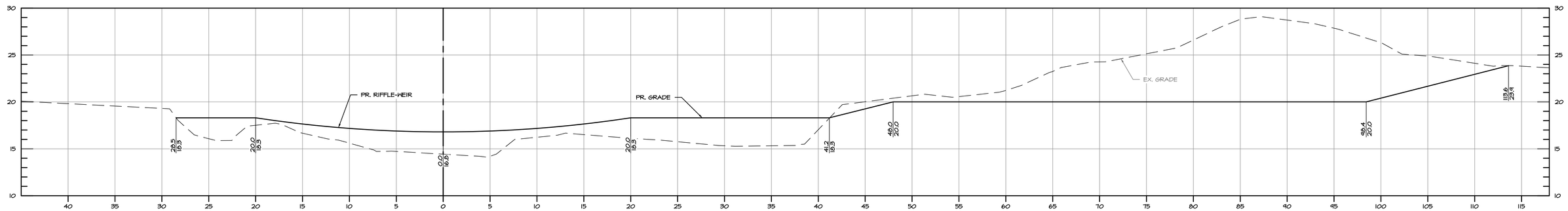
BASELINE OF CONSTRUCTION STA 18+60.0



BASELINE OF CONSTRUCTION STA 19+25.0



BASELINE OF CONSTRUCTION STA 19+25.0



BASELINE OF CONSTRUCTION STA 20+00.0

NOTE:
BASEFLOW CHANNEL IS NOT DRAWN IN CROSS SECTION VIEW.
FOR LOCATIONS, SEE SHEET 12/DWG SR-02 TO SHEET 14/DWG SR-04.
FOR DIMENSIONS, SEE SHEET 17/DWG DE-02.

0 2.5 5 10
1 INCH = 5 FEET

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EG-SWMENG- XXXXXX-XXXX #XXXX

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S/C PLAN # N/A

GP # N/A

REVISIONS

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
CROSS SECTION

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS

SCALE : 1" = 5'
DATE : 05/30/23

DRAWING NO. XS-06 OF XS-08

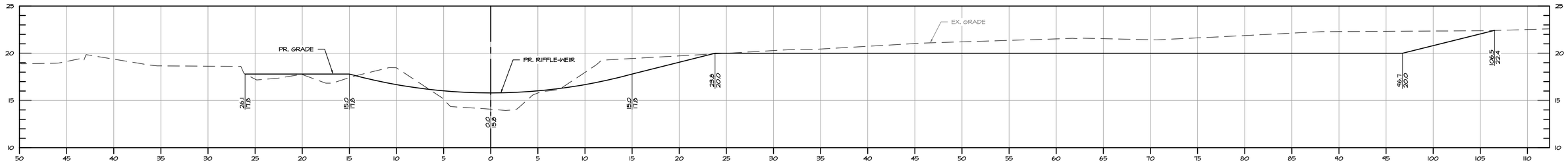
SHEET NO. 26 OF 29

BID No.:

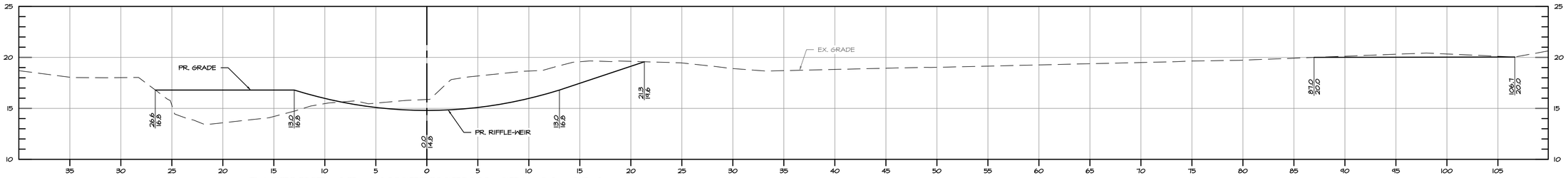
HCG DWG ID No.:

SCALE 1 inch

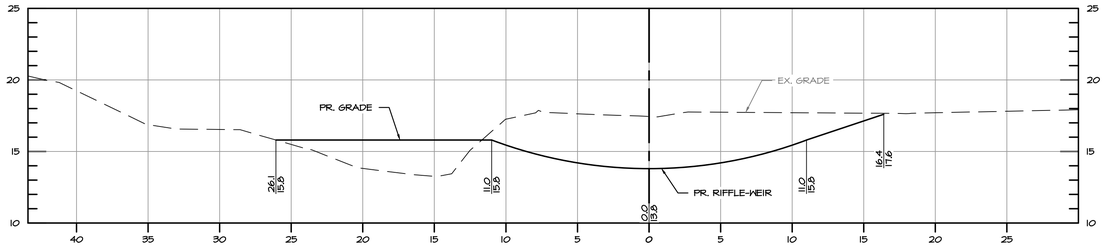
2:\4_4601_TAYLOR_CREEK_STREAM_RESTORATION\CAD Files\Sheet Files\4_4601_XS-A06.dwg



BASELINE OF CONSTRUCTION STA 20+50.0



BASELINE OF CONSTRUCTION STA 20+95.0



BASELINE OF CONSTRUCTION STA 21+30.0

0 2.5 5 10

1 INCH = 5 FEET

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BILLING NO. XXXXXX

EG-SWMENG- XXXXXX-XXXX #XXXX

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S/C PLAN # N/A

GP # N/A

REVISIONS

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
CROSS SECTION

DRAWN BY : MJG

DESIGNED BY : MKS/KJM

REVIEWED BY : SMC/CMS

SCALE : 1" = 5'

DATE : 05/30/23

DRAWING NO. XS-07 OF XS-08

SHEET NO. 27 OF 29

BID No.:

HCG DWG ID No.:

SCALE 1 inch

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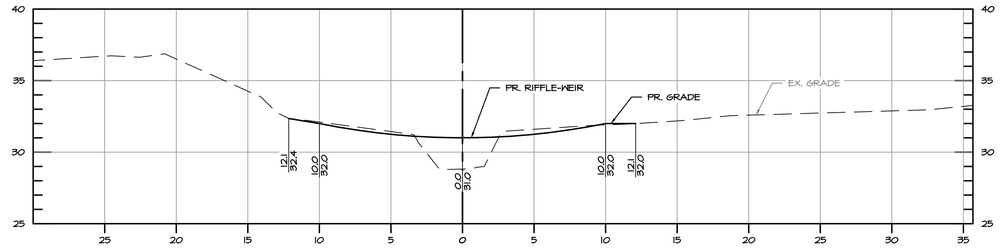
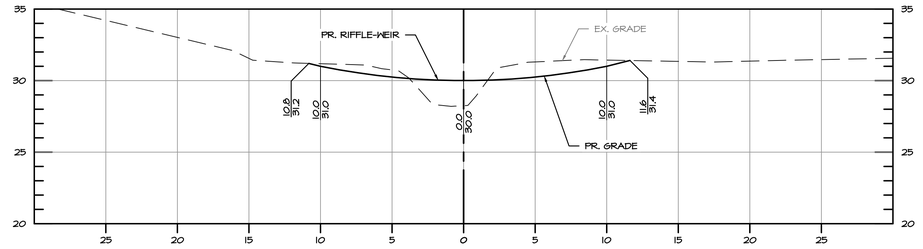


TRIBUTARY 1 BASELINE OF CONSTRUCTION STA 101+05.0



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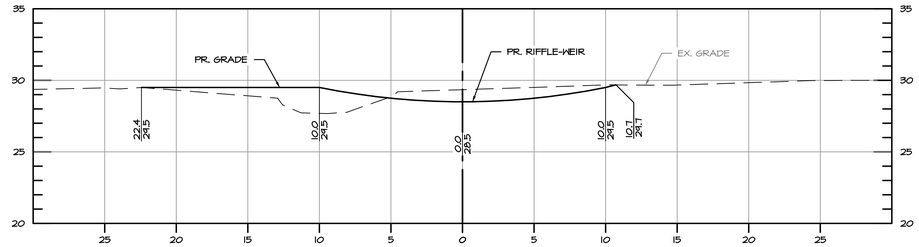
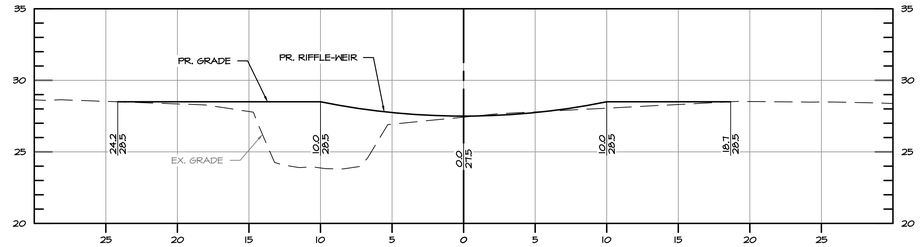
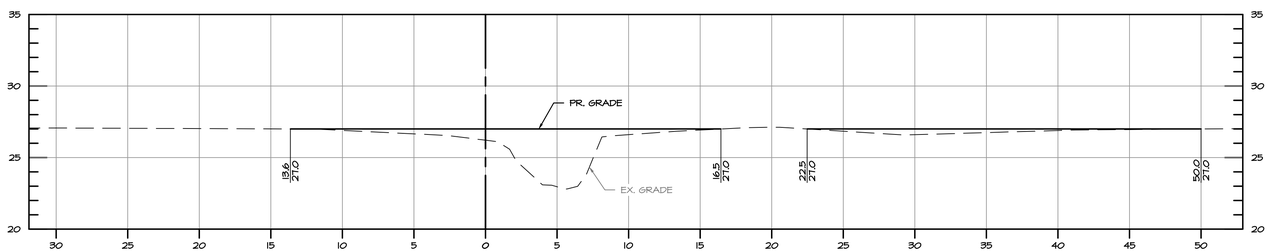


TRIBUTARY 1 BASELINE OF CONSTRUCTION STA 101+95.0



TRIBUTARY 1 BASELINE OF CONSTRUCTION STA 102+40.0



TRIBUTARY 1 BASELINE OF CONSTRUCTION STA 102+86.8

NOTE:
BASEFLOW CHANNEL IS NOT DRAWN IN CROSS SECTION VIEW.
FOR LOCATIONS, SEE SHEET 12/DWG SR-02 TO SHEET 14/DWG SR-04.
FOR DIMENSIONS, SEE SHEET 17/DWG DE-02.

0 2.5 5 10
1 INCH = 5 FEET

BayLand Consultants & Designers, Inc.
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www.baylandinc.com

BAYLAND JOB NO. 4_4601

BILLING NO. XXXXXX

EG-SWMENG- XXXXXX-XXXX #XXXX

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 200966, EXPIRATION DATE: 01/16/2025.

S/C PLAN # N/A

GP # N/A

REVISIONS

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
CROSS SECTION

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS

SCALE : 1" = 5'
DATE : 05/30/23

DRAWING NO. XS-08 OF XS-08

SHEET NO. 28 OF 29

BID No.:

HCG DWG ID No.:

SCALE 1 inch

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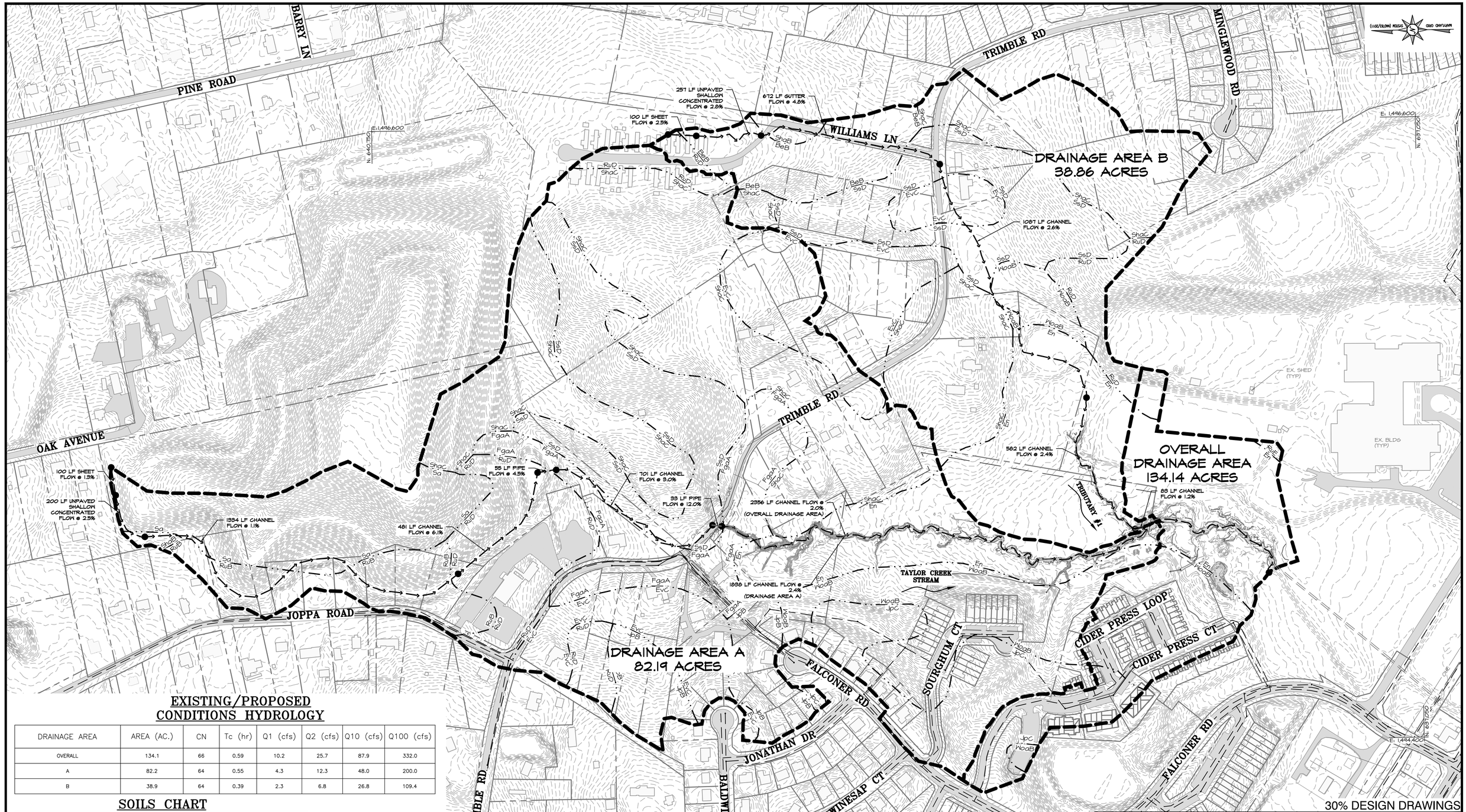

EXISTING/PROPOSED CONDITIONS HYDROLOGY

DRAINAGE AREA	AREA (AC.)	CN	Tc (hr)	Q1 (cfs)	Q2 (cfs)	Q10 (cfs)	Q100 (cfs)
OVERALL	134.1	66	0.59	10.2	25.7	87.9	332.0
A	82.2	64	0.55	4.3	12.3	48.0	200.0
B	38.9	64	0.39	2.3	6.8	26.8	109.4

SOILS CHART

SYMBOL	SOIL	HSG	K FACTOR
BeB	BELTSVILLE SILT LOAM (SLOPES 2–5%)	C	0.37
En	ELKTON SILT LOAM	C/D	0.43
EvC	EVESBORO LOAMY SAND (SLOPES 5–15%)	A	0.05
FgaA	FALLSINGTON LOAMS (SLOPES 0–2%)	C/D	N/A
JpB	JOPPA GRAVELLY SANDY LOAM (SLOPES 2–5%)	A	0.10
JpC	JOPPA GRAVELLY SANDY LOAM (SLOPES 5–10%)	A	0.10
RuB	RUSSETT FINE SANDY LOAM (SLOPES 0–5%)	C	0.32
RuD	RUSSETT FINE SANDY LOAM (SLOPES 5–15%)	C	0.32
RuE	RUSSETT FINE SANDY LOAM (SLOPES 15–30%)	C	0.32
Sa	SAND AND GRAVEL PITS	A	N/A
ShaB	SASSAFRAS SANDY LOAM (SLOPES 2–5%)	B	0.20
ShaC	SASSAFRAS SANDY LOAM (SLOPES 5–10%)	B	0.20
SsD	SASSAFRAS AND JOPPA SOILS (SLOPES 10–15%)	B	0.32
WoaB	WOODSTOWN LOAM (SLOPES 2–5%)	C	0.37

DRAINAGE AREA MAP

SCALE: 1" = 150'

0 75 150 300

1 INCH = 150 FEET

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S/C PLAN # N/A	REVISIONS
GP # N/A	

30% DESIGN DRAWINGS

HARFORD COUNTY, MARYLAND

TAYLOR CREEK STREAM RESTORATION
DRAINAGE AREA MAP

DRAWN BY : MJG
DESIGNED BY : MKS/KJM
REVIEWED BY : SMC/CMS

SCALE : 1" = 150'
DATE : 05/30/23

DRAWING NO. DA-01 OF DA-01

SHEET NO. 29 OF 29

BID No.:

HCG DWG ID No.:

SCALE: 1 inch

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