



CITY OF ANN ARBOR ENGINEERING

LIBERTY STREET CREEK RESTORATION

RFP # 25-53

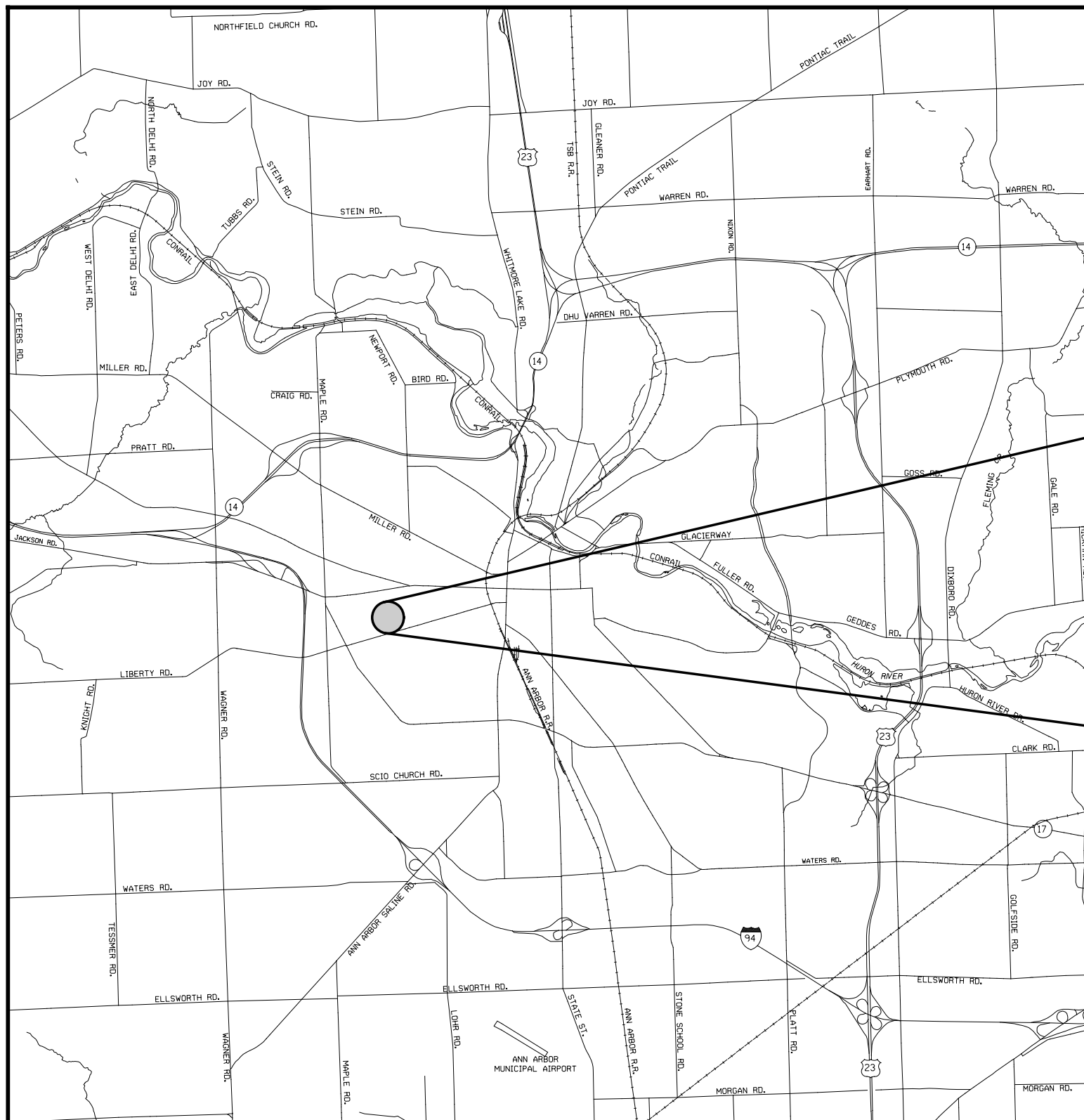
NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE ANY OF THESE UTILITIES.

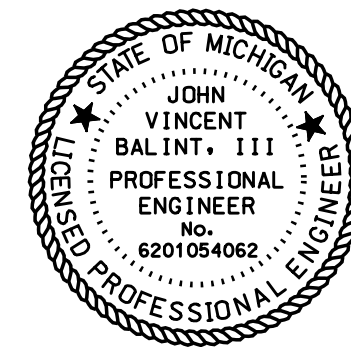
THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 2024 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS WHICH ARE INCLUDED FOR REFERENCE AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAILS DOES NOT RELIEVE THE CONTRACT FROM THIS REQUIREMENT.

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PROJECT
LOCATION

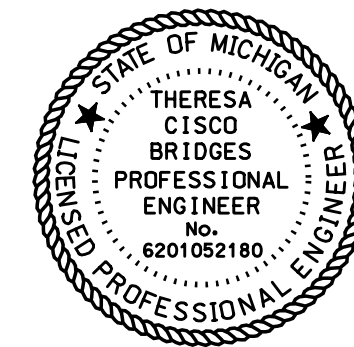
PREPARED UNDER THE SUPERVISION OF



JOHN V. BALINT, P.E.
MI LICENSE No. 6201054062
HUBBELL, ROTH & CLARK, INC.

DATE

CITY APPROVAL



THERESA CISCO BRIDGES, P.E.
MI LICENSE No. 6201052180
PROJECT MANAGER

DATE

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

LIBERTY STREET CREEK RESTORATION

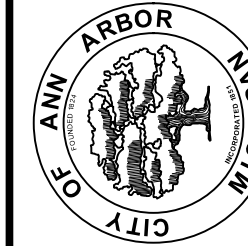
SHEET No.

COVER

SCALE

DRAWING No.

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48106-8647
www.a2gov.org



ISSUED FOR BIDS	11-07-2025	J.A.R.	F.B.
REVISED PER ECL COMMENT	05-16-2025	J.A.R.	F.B.
ISSUED FOR ECL PERMIT	02-24-2025	J.A.R.	F.B.
ISSUED FOR PRELIMINARY REVIEW	01-16-2025	J.A.R.	F.B.
ISSUED FOR CONCEPT REVIEW	10-31-2024	J.A.R.	F.B.
REV.	DATE	DRAWN	CHECKED



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PROJECT STAGING AND ACCESS NOTES:

THE LIBERTY STREET CREEK RESTORATION PROJECT IS LOCATED IN THE FAIRGLEN COMMONS (PRIVATE PARK) AND THE LIBERTY KNOLL COMMONS (PRIVATE PARK) IN THE CITY OF ANN ARBOR.

WORK PROPOSED INVOLVES OPEN CREEK CLEANOUT AND BANK STABILIZATION FROM P.O.B. STA. 0+00 AT THE EXISTING 24" RCP PIPE TO THE EXISTING 87" x 63" CMP ARCH PIPE AT STA. 3+33 +/-, NO WORK IS PROPOSED ALONG THE ENCLOSED PORTION OF THE CREEK. WORK CONTINUES FROM THE EXISTING 87" x 63" CMP TO THE P.O.E. AT THE INVERT OF THE EXISTING 87" x 63" CMP AT STA. 7+44 AT THE RIGHT-OF-WAY OF WESTWOOD APARTMENT DRIVE.

PROPOSED LAYDOWN AND STAGING AREA WILL BE LOCATED IN VIRGINIA PARK.

THE EXISTING BALL FIELD AND BASKETBALL COURT WILL NOT BE USED FOR THIS PURPOSE AND SHALL BE PROTECTING DURING CONSTRUCTION ACTIVITIES.

PRIMARY ACCESS TO THE SITE WILL BE THROUGH SILLER TERRACE OFF OF W. LIBERTY STREET AND THROUGH VIRGINIA PARK.

ACCESS TO THE WORK AREA WILL BE THROUGH THE EXISTING UTILITY EASEMENTS IN LIBERTY KNOLL COMMONS AND FAIRGLEN COMMONS PRIVATE PARKS. THE ACCESS PATH SHALL HAVE A MAXIMUM WIDTH OF 12 FEET IN ORDER TO LIMIT THE AMOUNT OF DISTURBANCE TO EXISTING VEGETATION.

UPON COMPLETION OF CONSTRUCTION THE ACCESS PATH MAY REMAIN TO PROVIDE EASE OF ACCESS FOR MAINTENANCE OF EXISTING UTILITIES.

A PRECONSTRUCTION SITE VISIT WILL BE NECESSARY TO DECIDE WHICH TREES WILL NEED TO BE REMOVED TO FACILITATE THE ACCESS TO THE PROJECT AREA. NO TREES SHALL BE REMOVED WITHOUT PRIOR CONSENT FROM THE OWNER AND THE PROJECT ENGINEER.

IF NECESSARY THERE ARE SECONDARY ACCESS LOCATIONS THAT MAY BE USED BUT ONLY WITH PRIOR APPROVAL FROM THE OWNER AND THE PROJECT ENGINEER.

THE CONTRACTOR MAY PROPOSE OTHER ACCESS AND STAGING AREAS AT THE PRECONSTRUCTION MEETING. ALL STAGING AND ACCESS AREAS MUST BE APPROVED BY THE OWNER AND PROJECT ENGINEER.

THE CONTRACTOR SHALL SUBMIT A PROJECT SCHEDULE, PHASING PLAN, STAGING AREA PLAN AND SEQUENCE OF CONSTRUCTION AT THE PRECONSTRUCTION MEETING FOR THE OWNER AND PROJECT ENGINEER'S APPROVAL PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.

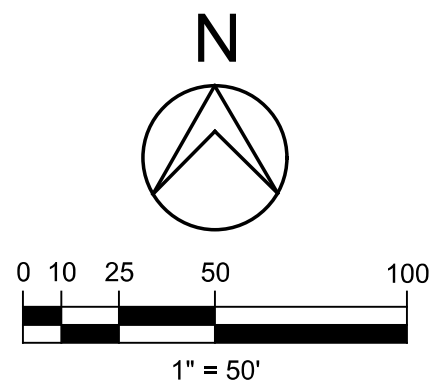
AT THE PRECONSTRUCTION MEETING THE CONTRACTOR SHALL PROVIDE A "MEANS AND METHODS" TO ACCESS THE WORK AREA AND TO PERFORM THE PROPOSED WORK. THESE "MEANS AND METHODS" MUST BE APPROVED BY THE OWNER AND THE PROJECT ENGINEER PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.

FAIR STREET

SITE PHOTO P-1

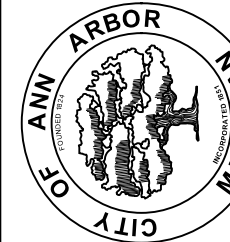
PRIMARY ACCESS GENERAL NOTES:

1. THERE ARE EXISTING SIGNS, STEEL GATE WITH CONCRETE BOLLARDS AND SPLIT RAIL WOOD FENCE AT THE PROPOSED SITE ACCESS OFF OF SILLER TERRACE INTO VIRGINIA PARK TO ACCESS THE PROJECT LAYDOWN AND STAGING AREA. SEE SITE PHOTO P-1.
2. IF NECESSARY, THE CONTRACTOR SHALL REMOVE, SALVAGE AND REINSTALL THESE SITE AMENITIES AS NEEDED IN ORDER TO ACCESS THE SITE.
3. SEE SHEET 02 "PROJECT NOTES". "MISCELLANEOUS ITEMS OF WORK".
4. WORK SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "General Conditions, Max. \$ - Lsum".
5. INSTALL PROPERTY PROTECTION FENCE AS NEEDED TO PROTECT THE EXISTING BALL FIELD, BASKETBALL COURT AND TREE LINE AS SHOWN. PAID FOR UNDER THE MISCELLANEOUS AND AS NEEDED QUANTITY "Ds_Fence Protective (As Needed) - Ft". SEE SHEET 02.



Know what's below.
Call before you dig.

CITY OF ANN ARBOR
PUBLIC SERVICES
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ANN ARBOR MI 48106-8647
www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

LIBERTY STREET CREEK RESTORATION

ACCESS PLAN

SCALE
1" = 50'

SHEET No.

01

DRAWING No.

01

ISSUED FOR BIDS	REVISED PER ECL COMMENT	ISSUED FOR ECL PERMIT	ISSUED FOR PRELIMINARY REVIEW	ISSUED FOR CONCEPT REVIEW	REV.
11-07-2025	05-16-2025	02-24-2025	01-16-2025	10-31-2024	
J.A.R.	J.A.R.	J.A.R.	J.A.R.	J.A.R.	
DATE	DESCRIPTION				

DATE	DESCRIPTION

GENERAL NOTES:

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MDOT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE 2025 PUBLIC SERVICES STANDARD SPECIFICATIONS UNLESS OTHERWISE SPECIFIED IN THE STANDARD SPECIFICATIONS, DETAILS OR SPECIAL PROVISIONS AND THE SPECIFICATIONS CONTAINED HEREIN.

COOPERATION BY THE CONTRACTOR: NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY DELAY OR INCONVENIENCE DUE TO MATERIAL SHORTAGES OR REASONABLE DELAYS DUE TO THE OPERATIONS OF SUCH OTHER PARTIES DOING WORK INDICATED OR SHOWN ON THE PLANS OR IN THE PROPOSAL OR FOR ANY REASONABLE DELAYS IN CONSTRUCTION DUE TO THE ENCOUNTERING OF EXISTING UTILITIES THAT MAY OR MAY NOT BE SHOWN ON THE PLANS.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES FOR NOISE LEVELS, VIBRATIONS, OR ANY OTHER RESTRICTIONS WHILE PERFORMING ANY CONSTRUCTION OPERATIONS WITHIN THIS CONTRACT, COSTS TO BE INCLUDED IN THE RESPECTIVE ITEM OF WORK.

THE CONTRACTOR SHALL, BEFORE EACH DAYS WORK, DETERMINE AND EVALUATE THE LOCATION OF ALL UNDERGROUND FACILITIES IN THE AREA. IF LOCATION STAKES HAVE BEEN MOVED OR DO NOT APPEAR CORRECT, THE CONTRACTOR SHALL NOT EXCAVATE UNTIL ALL UTILITIES HAVE HAD AN OPPORTUNITY TO CHECK OR RESTAKE THEIR LOCATIONS. ANY DELAYS INCURRED, DUE TO THE CHECKING OR RESTAKING OF UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION.

THERE WILL BE NO ADJUSTMENT IN THE CONTRACT UNIT PRICE REGARDLESS OF THE PERCENTAGE OF INCREASE OR DECREASE ABOVE OR BELOW THE CONTRACT QUANTITY FOR ANY ITEM OF WORK.

IT IS THE INTENT THAT ALL GOVERNMENT CORNERS ON THIS PROJECT BE PRESERVED AND THAT, WHERE NECESSARY, MONUMENT BOXES BE PLACED OR ADJUSTED AT THE CONTRACTORS EXPENSE WHETHER SHOWN OR NOT.

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS ARE TAKEN FROM THE BEST AVAILABLE DATA. THE CITY OF ANN ARBOR & HUBBELL, ROTH AND CLARK, INC. WILL NOT BE HELD RESPONSIBLE FOR ANY OMISSION OR VARIATIONS FROM THE LOCATIONS SHOWN. PURSUANT TO ACT 53 OF THE PA OF 1974 AS A CONDITION OF THIS CONTRACT NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT. PHONE (800)-482-7171 OR 647-7344.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXCAVATE AHEAD AND ADJUST DEPTH OF UTILITIES ACCORDINGLY IN ORDER TO AVOID ANY POTENTIAL CONFLICTS. ANY DAMAGE INCURRED TO UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND WILL BE REPAIRED IMMEDIATELY AT NO COST TO THE OWNER.

STAGING AND ACCESS:

SEE PLAN SHEET 01 "ACCESS PLAN" FOR DESCRIPTION AND RECOMMENDATIONS FOR THE STAGING AND LAYDOWN AREAS ALONG WITH THE RECOMMENDED ACCESS ROUTE TO THE PROPOSED SITE.

CONSTRUCTION NOTES:

THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

THE LOCATION OF MATERIAL STOCKPILES AND ONSITE STAGING AREAS SHALL BE APPROVED BY THE CITY OF ANN ARBOR AND THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE SLOPE STAKE LINE, INCLUDING EXISTING FENCING, LAWN, TREES, SHRUBBING, PAVEMENT, ETC.

STREAM BANK DIRECTION:

ALL LEFT AND RIGHT STREAM BANKS / CROSS SECTIONS ARE REFERENCED LOOKING UPSTREAM PER PLAN.

PERMITS:

EGLE PERMIT No. PENDING

WCWRC DRAIN PERMIT No. PENDING

CITY OF ANN ARBOR SESC No. PENDING

NOTE:
THE CONTRACTOR SHALL STRICTLY FOLLOW ALL PERMIT CONDITIONS SET FORTH.

CONSTRUCTION STAKING:

GRADING LIMITS, ELEVATIONS, AND LOCATIONS OF STRUCTURES AND BANK TREATMENTS SHALL BE STAKED BY THE ENGINEER. THE CONTRACTOR SHOULD PROVIDE 72 HOURS NOTICE OF STAKING NEEDS PRIOR TO WORK COMMENCING. THE CONTRACTOR SHALL MAINTAIN ALL STAKING THROUGH THE DURATION OF THE PROJECT.

LIMITS OF DISTURBANCE (LOD) SHOWN ON THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO THAT ALL WORK PERFORMED IS WITHIN THE PROJECT AREA.

UTILITIES:

ALL UTILITIES WITHIN THE ZONE OF INFLUENCE OF PROPOSED WORK ARE TO BE FIELD LOCATED AND HAND DUG INCLUDED IN THE UNIT BID PRICES FOR APPROPRIATE ITEMS.

ALL GAS FACILITIES SHALL BE PROTECTED AND SUPPORTED PER MICHCON OR CONSUMER ENERGY STANDARDS AS APPLICABLE.

PRIOR TO WORK ON FACILITIES BELONGING TO THE ABOVE AGENCIES, A MINIMUM OF 72 HOURS NOTICE MUST BE GIVEN IN ORDER TO INSURE PROPER INSPECTION BY THE RESPECTIVE AGENCIES.

CONCRETE, GRADE S3, SHALL BE USED TO ENCASE UTILITIES THAT ARE IN CLOSE PROXIMITY TO THE PROPOSED CONSTRUCTION ONLY AS DIRECTED BY THE ENGINEER.

ALL EXPLORATORY WORK REQUIRED FOR LOCATING EXISTING UTILITIES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONSTRUCTION OF THE PROJECT.

THE EXISTING UTILITIES LISTED HEREIN AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AS OBTAINED FROM SURVEYS AND FROM UTILITY RECORD MAPS. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO SATISFY HIMSELF AS TO THEIR ACCURACY OR OF HIS RESPONSIBILITY IN CASE UTILITIES HAVE BEEN CONSTRUCTED, RELOCATED OR REMOVED. OWNERS OF PRIVATE UTILITIES WILL NOT BE REQUIRED TO MOVE ADDITIONAL POLES AND STRUCTURES THAT ARE NOT SPECIFICALLY INDICATED AS SUCH ON THE PLANS.

THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK, AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO INSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.

FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL DIAL 800-482-7171 A MINIMUM OF 3 WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS, PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICIPATING WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE CONTRACTOR SHALL PROTECT ALL SIDE DRAIN STORM OUTLETS DURING CONSTRUCTION. ALL SIDE DRAIN OUTLETS MUST REMAIN UNOBSTRUCTED AND SHALL NOT BE COVERED WHEN PORTIONS OF THE EXISTING DRAIN ARE FILLED IN. IF DISTURBED, OUTLETS SHALL BE RESET AS NECESSARY TO PROVIDE POSITIVE FLOW TO THE CREEK.

THE CONTRACTOR SHALL PROTECT ALL SANITARY MANHOLES DURING CONSTRUCTION. THERE ARE MULTIPLE SANITARY SEWER CROSSINGS NOTED ON THE PLAN SHEETS. THE CONTRACTOR SHALL PROTECT THE EXISTING SANITARY SEWER AT THESE LOCATIONS. PRIOR TO ANY WORK, THE CONTRACTOR SHALL FIELD VERIFY THE DEPTH AND LOCATION OF THE SANITARY SEWER AND IF NECESSARY HAND DIG AT THESE LOCATIONS.

HEAVY EQUIPMENT ACCESS AND OPERATION:


THE CONTRACTOR SHALL STAY WITHIN THE LIMITS OF CONSTRUCTION AND MINIMIZE THE AREA AND DURATION OF DISTURBANCE AT ALL TIMES. ALL OTHER TREE CLEARING NECESSARY TO CONSTRUCT THE PROJECT PER THE PLANS AND FOR SITE ACCESS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE, AND APPROVED BY THE CITY OF ANN ARBOR AND THE PROJECT ENGINEER.

THE CONTRACTOR SHALL USE REASONABLE MEASURES TO AVOID SOIL COMPACTION BY HEAVY EQUIPMENT.

CONTRACTOR SHALL USE EQUIPMENT SUITABLE FOR WORK IN THE CREEK. THE INSPECTOR RESERVES THE RIGHT TO EXCLUDE ANY EQUIPMENT HE DEEMS UNACCEPTABLE TO ENTER THE CREEK DUE TO LEAKING FLUIDS, ACCUMULATED SEDIMENT OR OTHER POTENTIAL HAZARDS TO WATER QUALITY. TEMPORARY RIP RAP OR OTHER MEANS AS NECESSARY SHALL BE USED TO PROTECT THE EDGE OF THE CREEK BANK WHEN ENTERING OR EXITING THE CREEK. THE ACCESS PATH WILL BE GRADED AND STABILIZED BY THE CONTRACTOR TO SUPPORT HIS OPERATIONS WHILE MINIMIZING DISRUPTION AND RESTORATION. THE CONTRACTOR SHALL PROVIDE ACCESS PLANS AND DETAILS FOR REVIEW AT THE PRECONSTRUCTION MEETING. ALL COSTS ASSOCIATED WITH THE CONTRACTOR'S CHOSEN MEANS OF ACCESS SHALL BE INCIDENTAL TO THE PROJECT AND INCLUDED IN OTHER LINE ITEMS AS NECESSARY. THE CONTRACTOR WILL NOT BE COMPENSATED FOR EXCESS CLEARING, GRADING, OR RESTORATION DUE TO THE CONTRACTOR'S OPERATIONS SELECTED.

TRACK HOES USED FOR VANE, BOULDER, AND TOE WOOD INSTALLATION SHALL BE EQUIPPED WITH A SWIVEL BUCKET AND HYDRAULIC THUMB.

TREE REMOVAL WORK:

TREES DESIGNATED FOR REMOVAL ARE SHOWN AS SUCH . TREES SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ROOT WADS, ETC. AND USED IN THE CONSTRUCTION OF THE TOE WOOD BANK STABILIZATION STRUCTURES AS DIRECTED BY THE PROJECT ENGINEER.

REMOVAL OF SHRUBS, BRUSH AND TREES LESS THAN 6 INCH IN DIAMETER (DBH) AS SHOWN ON THE PLANS OR AS DIRECTED SHALL BE PAID FOR UNDER THE MISCELLANEOUS AND AS NEEDED QUANTITY "General Conditions, Max. \$ - Lsum".

ALL WOODY MATERIAL FOR THE TOE WOOD STRUCTURES MUST BE APPROVED BY THE PROJECT ENGINEER.

NO TREES SHALL BE REMOVED WITHOUT PRIOR CONSENT FROM THE OWNER AND THE PROJECT ENGINEER.

EARTH REMOVAL:

EXCAVATED MATERIAL TO CONSTRUCT THE NEW CREEK SHALL BE KEPT ON SITE AND USED AS FILL WHERE NEEDED.

ANY EXTRA MATERIALS REMAINING MAY BE TEMPORARILY STOCKPILED ON SITE. SEE "SPOILS" NOTE THIS SHEET.

SOIL EROSION, SILT FENCE:

SOIL EROSION SILT FENCE IS NOT DEPICTED ON THE PLANS AND IS CONSIDERED AN "AS NEEDED" QUANTITY. SOIL EROSION SILT FENCE SHALL BE PLACED AROUND ALL TEMPORARY SPOIL AREAS AND AROUND THE PROJECT LAYDOWN AND STAGING AREA TO PREVENT RUNOFF OF MATERIALS TO SURROUNDING AREAS. PAID FOR UNDER THE MISCELLANEOUS AND AS NEEDED PAY ITEM "DS_Erosion Control, Silt Fence (As Needed) - Ft".

SPOILS :

SPOILS MAY BE TEMPORARILY STORED ON SITE. SPOILS INCLUDING DIRT AND TREES, ETC. SHALL BE USED WHERE NEEDED FOR BANK STABILIZATION, i.e. TOE WOOD STRUCTURES. ANY REMAINING STORED SPOILS SHALL HAVE EROSION CONTROL SILT FENCE AND / OR OTHER CONTAINMENT MEASURES PLACED AROUND THE SITE TO PREVENT RUNOFF. TEMPORARY SEEDING AND MULCHING OF STOCKPILED SPOIL AREAS MAY BE NECESSARY WHERE THEY ARE TO REMAIN FOR MORE THAN ONE MONTH. UPON COMPLETION OF WORK, ANY REMAINING SPOILS SHALL BE REMOVED OFFSITE TO A SUITABLE LANDFILL BY THE CONTRACTOR AND THE SPOILS AREA RESTORED WITH TOPSOIL, SEED AND MULCH PER THE CONTRACT SPECIFICATIONS.

CONSTRUCTION FENCING:

CONSTRUCTION / PROTECTION FENCING SHALL BE INSTALLED AT THE OWNER'S OR ENGINEER'S DIRECTION. FENCING SHALL BE PAID FOR UNDER THE MISCELLANEOUS AND AS NEEDED QUANTITY "DS_Protection Fence - Ft".

RESTORATION:

RESTORATION OF THE SITE SHALL BE IN ACCORDANCE WITH THE FOLLOWING AND SHALL BE PAID FOR AS INDICATED BELOW:

ALL DISTURBED AREAS IN THE CREEK BANK SHALL BE RESTORED WITH SPECIFIED SEED MIX AS INDICATED ON THE PLANS AND IN THE SPECIFICATIONS.

REMOVE ALL CONSTRUCTION EQUIPMENT, EXCESS MATERIALS, DEBRIS, ETC., ESTABLISH FINE GRADE, AND RESTORE (PER PLANS AND SPECIFICATIONS). ALL COSTS FOR THE LABOR, EQUIPMENT AND MATERIALS SHALL BE CONSIDERED INCIDENTAL TO RESTORATION ITEMS.

REMOVE ANY HAUL ROADS OR ACCESS ROADS, MATERIAL STOCKPILES, AND CONSTRUCTION FENCING. THIS SHALL BE CONSIDERED INCIDENTAL TO PROJECT ITEM.

ALL PAVEMENT DAMAGED DURING CONTRACTOR OPERATIONS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE CITY OF ANN ARBOR SPECIFICATIONS.

WATER REQUIRED FOR SOD AND SEEDING SHALL BE INCLUDED IN THE CONTRACT COST FOR THESE ITEMS. WATER REQUIRED FOR COMPACTION SHALL BE INCLUDED IN THE COST OF CONSTRUCTION FOR THIS PROJECT. CONTRACTOR SHALL WATER THE PLANTINGS AND SEEDED AREAS DAILY FOR A MINIMUM OF 14 DAYS WITH AN ADDITIONAL FOUR (4) WATERING EVENTS IN THE FOLLOWING TWO WEEKS AFTER THE DAILY WATERING. WATERING SHALL NOT OCCUR ON SATURDAYS, SUNDAYS, OR IMMEDIATELY AFTER RAIN EVENTS. ALL EXCEPTIONS SHALL BE APPROVED BY THE PROJECT ENGINEER.

ALL AREAS DISTURBED BY THE CONTRACTOR AND / OR HIS SUBCONTRACTOR(S) BEYOND THE NORMAL CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE RESTORED AS SPECIFIED OR DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE ALLOWED FOR THIS ACTIVITY. THIS INCLUDES RESTORATION TO ALL MATERIAL STORAGE OR STAGING AREAS.

ALL DISTURBED AREAS TO BE RESTORED WITHIN SEVEN (7) DAYS OF COMPLETION.

CONTRACTOR TO CHECK ON SEED AND SOD GROWTH & SUPPLEMENT AS NEEDED. COSTS FOR RESEEDING AND RESODDING TO BE CONSIDERED INCIDENTAL TO RESTORATION ITEMS.

TREE PLANTINGS:

TREE PLANTINGS ARE PROPOSED FOR THIS PROJECT. SEE MISCELLANEOUS AND AS NEEDED QUANTITIES THIS SHEET.

TREE LOCATIONS AND SPECIES SHALL BE DETERMINED BY THE OWNER AND / OR THE PROJECT ENGINEER. THE PROJECT ENGINEER SHALL STAKE THE LOCATION OF THE PROPOSED TREES.

CARE SHOULD BE TAKEN WHEN CHOOSING THE PROPOSED TREE LOCATIONS AS EXISTING STORM AND SANITARY SEWERS ARE IN THE PROJECT AREA. IT IS IMPERATIVE THAT THE PROPOSED TREE LOCATIONS AND THEIR ROOT SYSTEMS WILL NOT BE IN CONFLICT WITH SAID UTILITIES.

SEE DETAIL SHEETS FOR PLANTING DETAILS.

CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS FOR SPECIAL LANDSCAPING REQUIREMENTS AND MAINTENANCE AND GUARANTEE STANDARDS FOR PROPOSED PLANTINGS.

MAINTENANCE RESPONSIBILITIES:

ONCE RESTORATION OF ALL DISTURBED AREAS HAS BEEN COMPLETED AND SEEDING HAS BEEN ESTABLISHED BY THE CONTRACTOR, IT WILL BE THE CITY OF ANN ARBOR'S RESPONSIBILITY TO MAINTAIN ALL AREAS INSIDE AND OUTSIDE OF THE MAIN CHANNEL (LIBERTY CREEK).

SEQUENCE OF CONSTRUCTION - SOIL EROSION AND SEDIMENTATION CONTROL:

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE SEDIMENT TRAP AND TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY PRIOR TO AND DURING THEIR CONSTRUCTION ACTIVITIES.
2. INSTALL ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES.
3. REMOVE VEGETATION AND DEBRIS AS DESCRIBED IN THE CREEK PER THE PLANS.
4. BEGIN CONSTRUCTION.
5. CONSTRUCT RESTORATION IMPROVEMENTS TO THE LIBERTY STREET CREEK.
6. COMPLETE CONSTRUCTION.
7. STABILIZE ALL DISTURBED AREAS WITH TURF REINFORCEMENT MATS AND NATIVE SEED MIX.
8. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
9. RESTORE CONSTRUCTION AREA AND STAGING / LAYDOWN AREA AND ALL SITE ACCESS POINTS WITH TOPSOIL, SEED AND MULCH.

SOIL EROSION AND SEDIMENTATION CONTROL - GENERAL NOTES:

1. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE WASHTENAW COUNTY WATER RESOURCES COMMISSIONER AND / OR THE CITY OF ANN ARBOR.
2. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
3. THE CONTRACTOR SHALL PERIODICALLY CHECK AND MAINTAIN THE PROPOSED SEDIMENT TRAPS AS NEEDED.
4. EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED WITHIN THE LIMITS OF CONSTRUCTION AND NOT ALLOWED TO COLLECT ON ANY OFF SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, PONDS AND WETLANDS.
5. THE CONTRACTOR SHALL APPLY TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AS DIRECTED ON THESE PLANS AND WHERE OTHERWISE REQUIRED.
6. THE CONTRACTOR SHALL TAKE ACTIONS AS NECESSARY TO PRESERVE NATURAL VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION.
7. STABILIZATION OF ALL DISTURBED AREAS SHALL BE ESTABLISHED USING THE APPROPRIATE VEGETATION WITHIN FIVE (5) WORKING DAYS OF THE COMPLETION OF FINAL GRADING.
8. THE CONTRACTOR SHALL SWEEP THE EXISTING STREETS SURROUNDING THE PROJECT SITE AS NEEDED.
9. SOIL EROSION AND SEDIMENTATION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY THE CONTRACTOR.
10. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT. UPON FINAL RESTORATION THE CONTRACTOR SHALL REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
11. ALL SOIL EROSION CONTROL MEASURES AS SHOWN ON THESE PLANS OR AS NEEDED TO COMPLETE THIS PROJECT SHALL BE PAID FOR AT THE UNIT PRICES INCLUDED IN THE PROPOSAL.






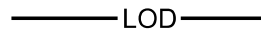


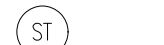





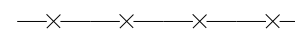








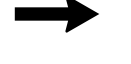

MISCELLANEOUS ITEMS OF WORK:

SEVERAL PAY ITEMS INCLUDED IN THE PROPOSAL ARE NOT SPECIFICALLY SHOWN ON THE PLANS. THESE ITEMS SHALL BE CONSTRUCTED AS DIRECTED BY THE PROJECT ENGINEER OR USED AS NEEDED. THEY ARE:

MISCELLANEOUS AND AS NEEDED QUANTITIES			
No.	DESCRIPTION	QTY	UNIT
1	General Conditions, Max. \$35,000	1	Lsum
2	DS_Access Allowance	1	Lsum
3	Digital Audio Visual Coverage	1	Lsum
4	DS_Fence, Protective (As Needed) *	2500	Ft
5	DS_Erosion Control, Silt Fence (As Needed) *	500	Ft
6	Project Clean-Up and Restoration	1	Lsum
7	Tree, Large, B&B	30	Ea
8	Tree, Medium, B&B	30	Ea
9	DS_Restoration, Side Slope Native Seed Mix (As Directed)	1100	Syd
10	DS_Restoration, Bankfull Bench Seed Mix (As Directed)	300	Syd
11	DS_Restoration, Native Upland Woodland Seed Mix (As Directed)	900	Syd
12	Landscape Maintenance and Warranty, 1 Year	1	Lsum

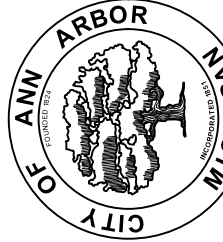
* THE AUTHORITY TO DETERMINE IF AN ITEM IS "AS NEEDED" IS THE OWNERS AND NOT THE CONTRACTORS. THE USE OF "AS NEEDED" ITEMS BY THE CONTRACTOR WITHOUT AUTHORIZATION FROM THE OWNER SHALL BE CONSIDERED PART OF THE CONTRACTOR'S MOBILIZATION RESPONSIBILITIES AND WILL NOT BE PAID FOR SEPARATELY.

LEGEND:

EXISTING:	PROPOSED:
CREEK 	CREEK 
TOP OF TERRACE 	TOP OF TERRACE 
TREE 	LIMITS OF DISTURBANCE 
SANITARY MANHOLE 	TREE, REMOVE 
SANITARY SEWER 	TOE WOOD 
STORM MANHOLE 	POOL 
STORM SEWER 	RIFFLE, CONSTRUCTED 
STORM END SECTION 	RIP RAP 
FENCE, WOOD 	CROSS VANE 
SANITARY EASEMENT 	LEDGE ROCK 
PROPERTY LINE 	STONE 
SPOT ELEVATION 	SITE ACCESS 
BLOCK WALL 	



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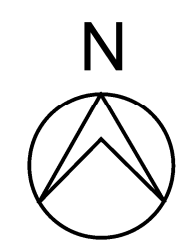
VA 202308\20230810\C Sheets\secc_plan2.dgn

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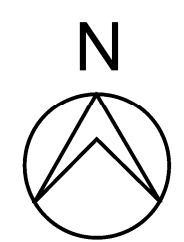
SOILS MAP OBTAINED FROM USDA NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY



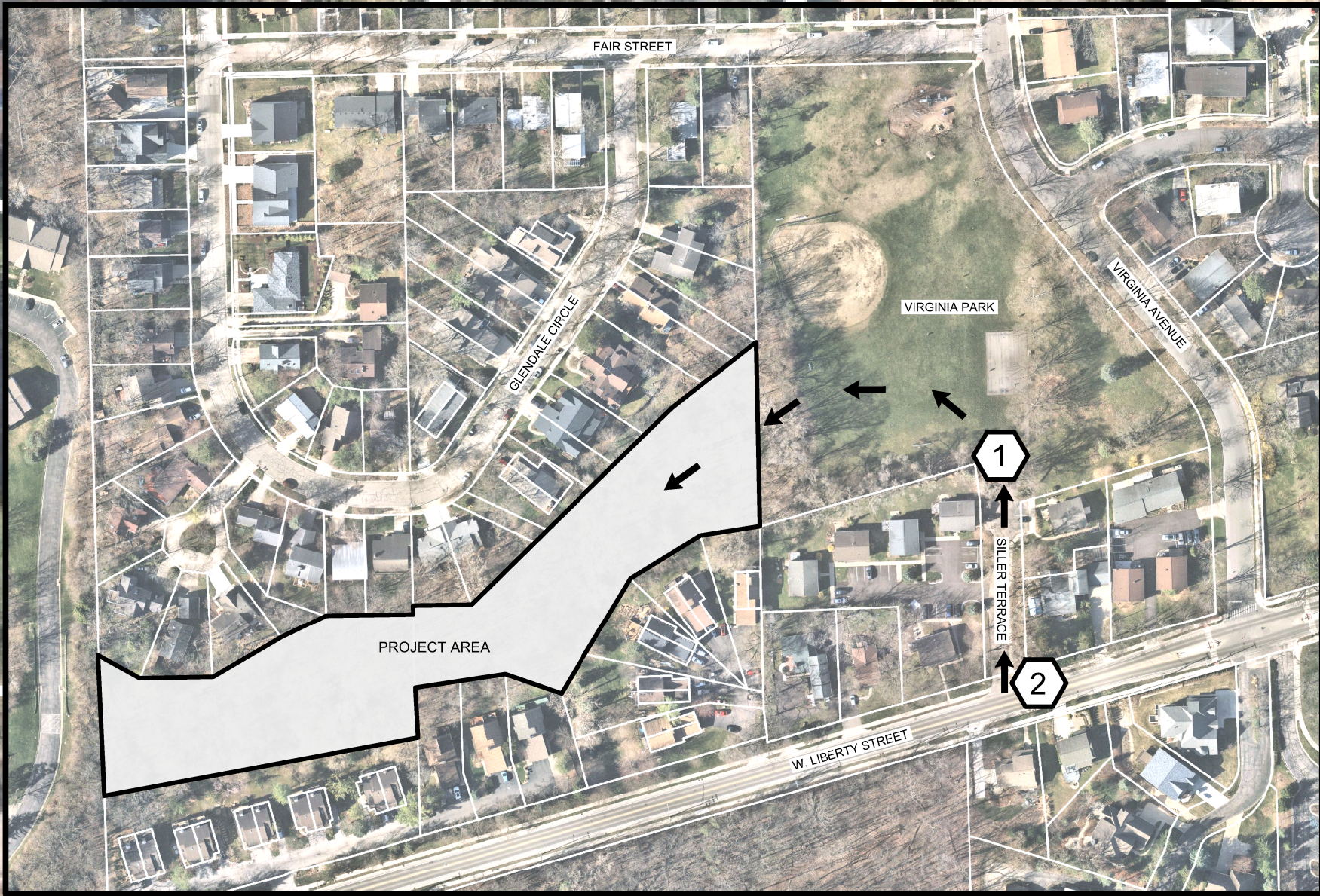
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
WawabB	Wawasee loam, 2 to 6 percent slopes	1.0	28.8%
WawabC	Wawasee loam, 6 to 12 percent slopes	2.4	71.2%
Totals for Area of Interest		3.4	100.0%



NOT TO SCALE
SOILS MAP



NOT TO SCALE
INSET MAP



SOIL EROSION AND SEDIMENTATION (SESC) QUANTITIES			
No.	DESCRIPTION	QTY.	UNIT
1	Erosion Control, Mud Mat	1	Lsum
2	Erosion Control, Inlet Protection, Fabric Drop	2	Ea
3	DS_Erosion Control, Instream Sediment Trap	2	Ea

SESC LEGEND:	
1	MUD MAT
2	INLET PROTECTION, FABRIC DROP
3	INSTREAM SEDIMENT TRAP

LIBERTY KNOLL COMMONS
(PRIV. PARK)
AND PRIV. ESMT. FOR
MAINTENANCE OF EXISTING
STORM AND SAN. SEWER

30' WIDE STORM AND
SAN. SEWER ESMT.

P.O.B. STA. 0+00
EX. 24" RCP INV.

LIBERTY KNOLL COMMONS
(PRIV. PARK)
AND PRIV. ESMT. FOR
MAINTENANCE OF EXISTING
STORM AND SAN. SEWER

LIMITS OF DISTURBANCE
(LOD) - APPROXIMATE

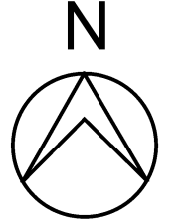
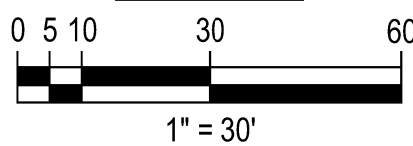
FAIRGLEN COMMONS (PRIV. PARK)
AND PRIV. ESMT. FOR
PUBLIC UTILITIES

30' WIDE PRIV. ESMT
FOR SAN. SEWER

FAIRGLEN COMMONS (PRIV. PARK)
AND PRIV. ESMT FOR
PUBLIC UTILITIES

EX. 87" x 63"
CMP INV.

SESC PLAN



SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

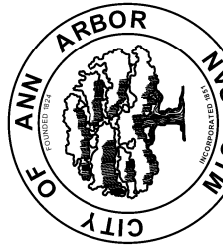
- SEE SHEET 23 FOR SESC STANDARD DETAILS.
- REFER TO SESC LEGEND THIS SHEET FOR SESC CONTROL MEASURES TO BE INSTALLED.
- SILT FENCE THOUGH NOT DEPICTED WILL BE REQUIRED AROUND ALL TEMPORARY SPOIL AREAS AND AROUND THE PROJECT LAYDOWN AND STAGING AREA. SEE SHEET 01 "ACCESS PLAN" AND SHEET 02 "PROJECT NOTES" FOR ADDITIONAL INFORMATION.
- INSTALL MUD MAT AT THE ACCESS POINT INTO VIRGINIA PARK OFF OF SILLER TERRACE. SEE INSET MAP THIS SHEET.
- INSTALL INLET PROTECTION FILTERS AT THE TWO (2) CATCH BASINS AT THE SOUTHEAST CORNER OF SILLER TERRACE AND W. LIBERTY STREET. SEE INSET MAP THIS SHEET.
- INSTALL TWO (2) INSTREAM SEDIMENT TRAPS AT THE LOCATIONS SHOWN. ONE AT THE INLET OF THE EX. 87" x 63" CMP AND ONE AT THE INLET OF THE EX. 24" RCP. SEDIMENT TRAPS SHALL BE FIELD LOCATED BY THE PROJECT ENGINEER.
- SEE SHEET 02 "PROJECT NOTES" FOR ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES INFORMATION.



Know what's below.
Call before you dig.

ISSUED FOR BIDS	REVISED PER ECLC COMMENTS	ISSUED FOR ECLC PERMIT	ISSUED FOR PRELIMINARY REVIEW	ISSUED FOR CONCEPT REVIEW	DATE	DRAWN	CHECKED
11-07-2025	05-16-2025	02-24-2025	01-16-2025	10-31-2024			
J.A.R.	J.A.R.	J.A.R.	J.A.R.	J.A.R.			
F.B.	F.B.	F.B.	F.B.	F.B.			

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

LIBERTY STREET CREEK RESTORATION

SESC PLAN

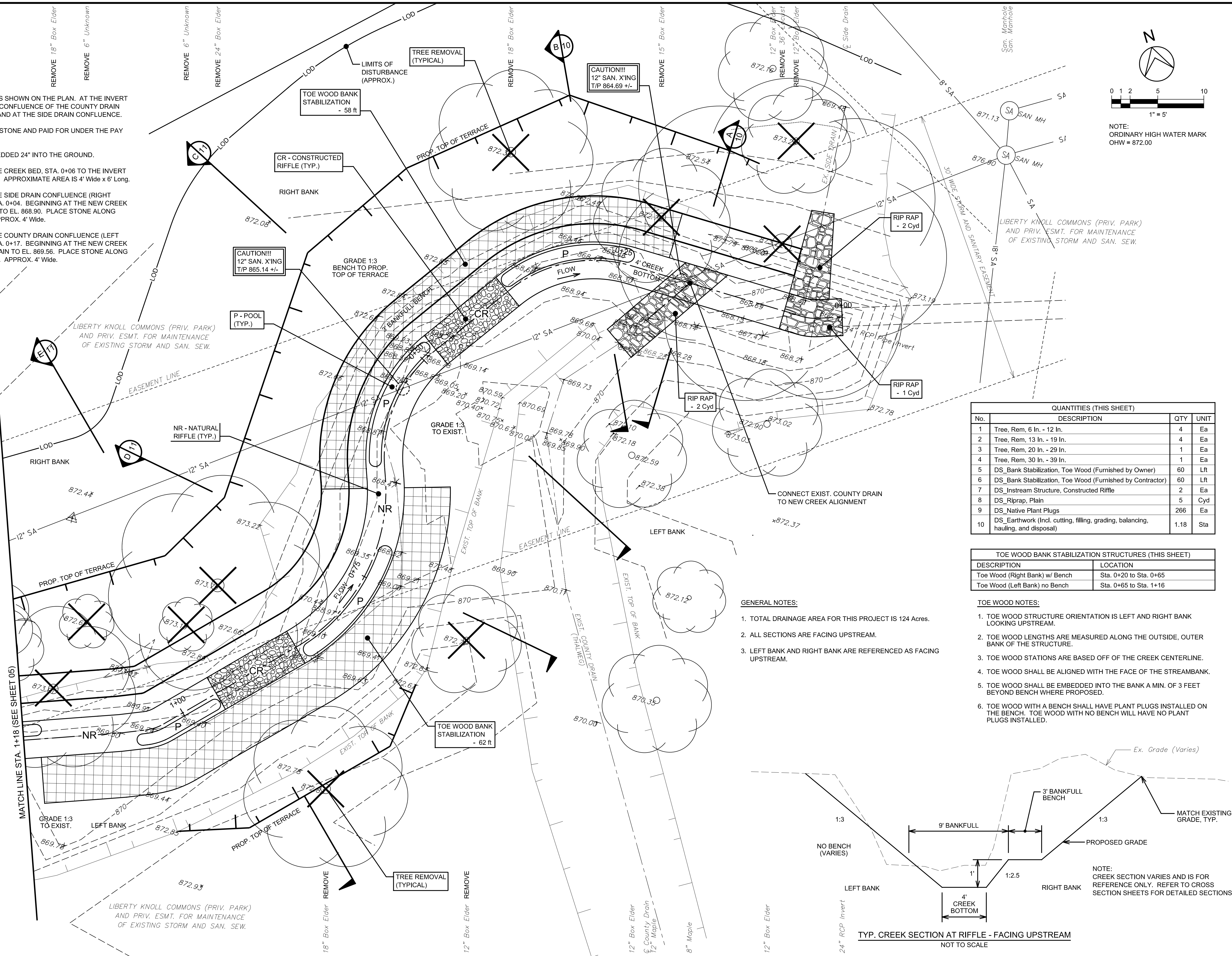
SCALE
AS NOTED
DRAWING No.

SHEET No.

03



1. PLACE RIPRAP AT THE 3 LOCATIONS SHOWN ON THE PLAN. AT THE INVERT OF THE EXISTING 24" RCP. AT THE CONFLUENCE OF THE COUNTY DRAIN AND THE NEW CREEK ALIGNMENT AND AT THE SIDE DRAIN CONFLUENCE.
2. ALL RIPRAP SHALL BE 18" - 24" DIA. STONE AND PAID FOR UNDER THE PAY ITEM "DS_Riprap, Plain - Cyd".
3. ALL RIPRAP STONE SHALL BE EMBEDDED 24" INTO THE GROUND.
3. PLACE 1 Cyd of RIPRAP ALONG THE CREEK BED. STA. 0+06 TO THE INVERT OF THE 24" RCP = 867.10, STA. 0+00. APPROXIMATE AREA IS 4' Wide x 6' Long.
4. PLACE 2 Cyd of RIPRAP ALONG THE SIDE DRAIN CONFLUENCE (RIGHT HAND SIDE FACING UPSTREAM) STA. 0+04. BEGINNING AT THE NEW CREEK BED EL. 867.20 UP THE SIDE DRAIN TO EL. 868.90. PLACE STONE ALONG THE WIDTH OF THE SIDE DRAIN. APPROX. 4' Wide.
5. PLACE 2 Cyd of RIPRAP ALONG THE COUNTY DRAIN CONFLUENCE (LEFT HAND SIDE FACING UPSTREAM) STA. 0+17. BEGINNING AT THE NEW CREEK BED EL. 867.40 UP THE COUNTY DRAIN TO EL. 869.56. PLACE STONE ALONG THE WIDTH OF THE COUNTY DRAIN. APPROX. 4' Wide.



QUANTITIES (THIS SHEET)				
No.	DESCRIPTION	QTY	UNIT	
1	Tree, Rem, 6 In. - 12 In.	4	Ea	
2	Tree, Rem, 13 In. - 19 In.	4	Ea	
3	Tree, Rem, 20 In. - 29 In.	1	Ea	
4	Tree, Rem, 30 In. - 39 In.	1	Ea	
5	DS_Bank Stabilization, Toe Wood (Furnished by Owner)	60	Lft	
6	DS_Bank Stabilization, Toe Wood (Furnished by Contractor)	60	Lft	
7	DS_Instream Structure, Constructed Riffle	2	Ea	
8	DS_Riprap, Plain	5	Cyd	
9	DS_Native Plant Plugs	266	Ea	
10	DS_Earthwork (Incl. cutting, filling, grading, balancing, hauling, and disposal)	1.18	Sta	

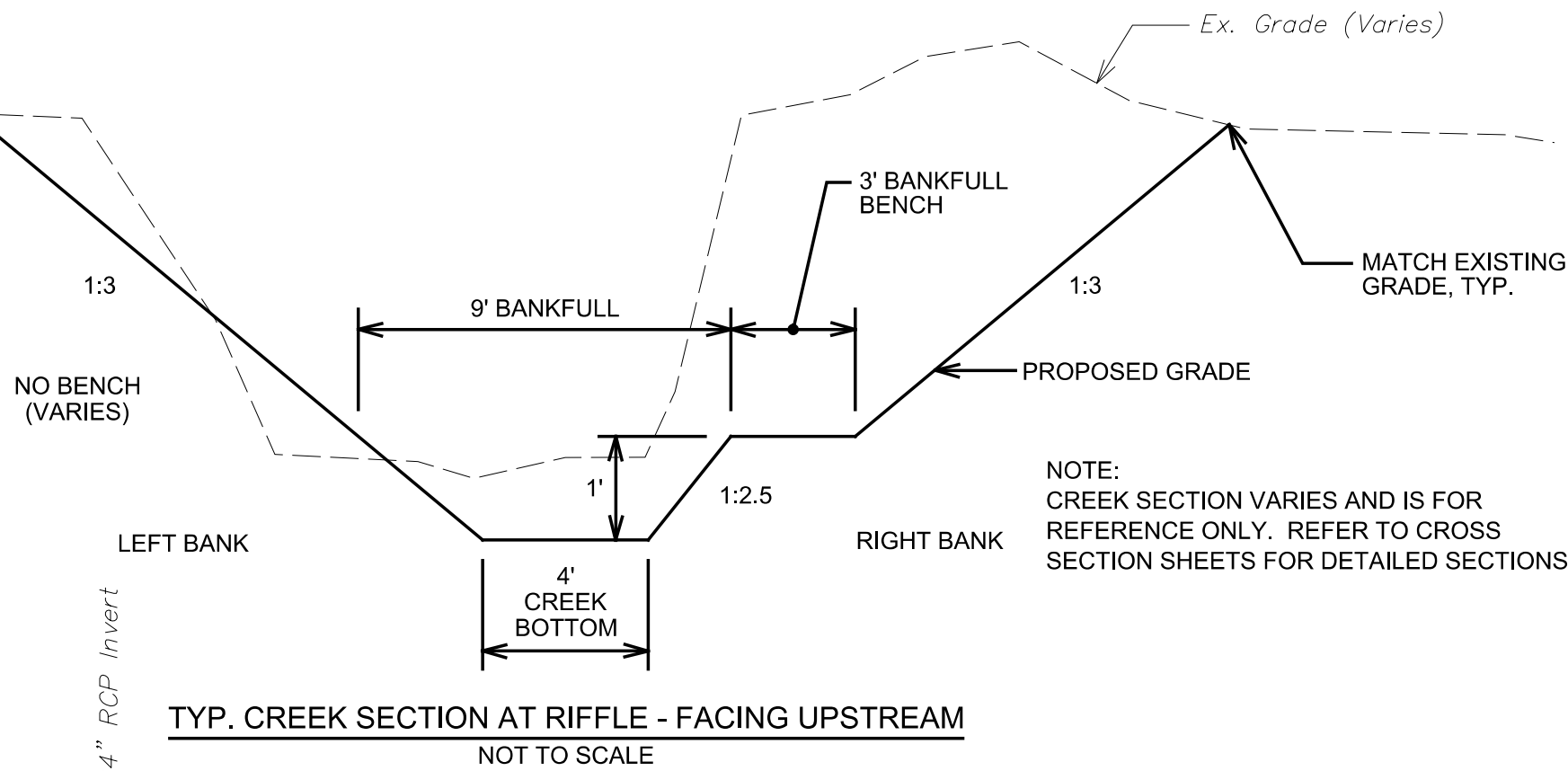
TOE WOOD BANK STABILIZATION STRUCTURES (THIS SHEET)	
DESCRIPTION	LOCATION
Toe Wood (Right Bank) w/ Bench	Sta. 0+20 to Sta. 0+65
Toe Wood (Left Bank) no Bench	Sta. 0+65 to Sta. 1+16

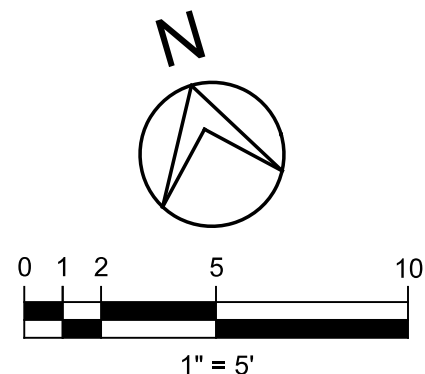
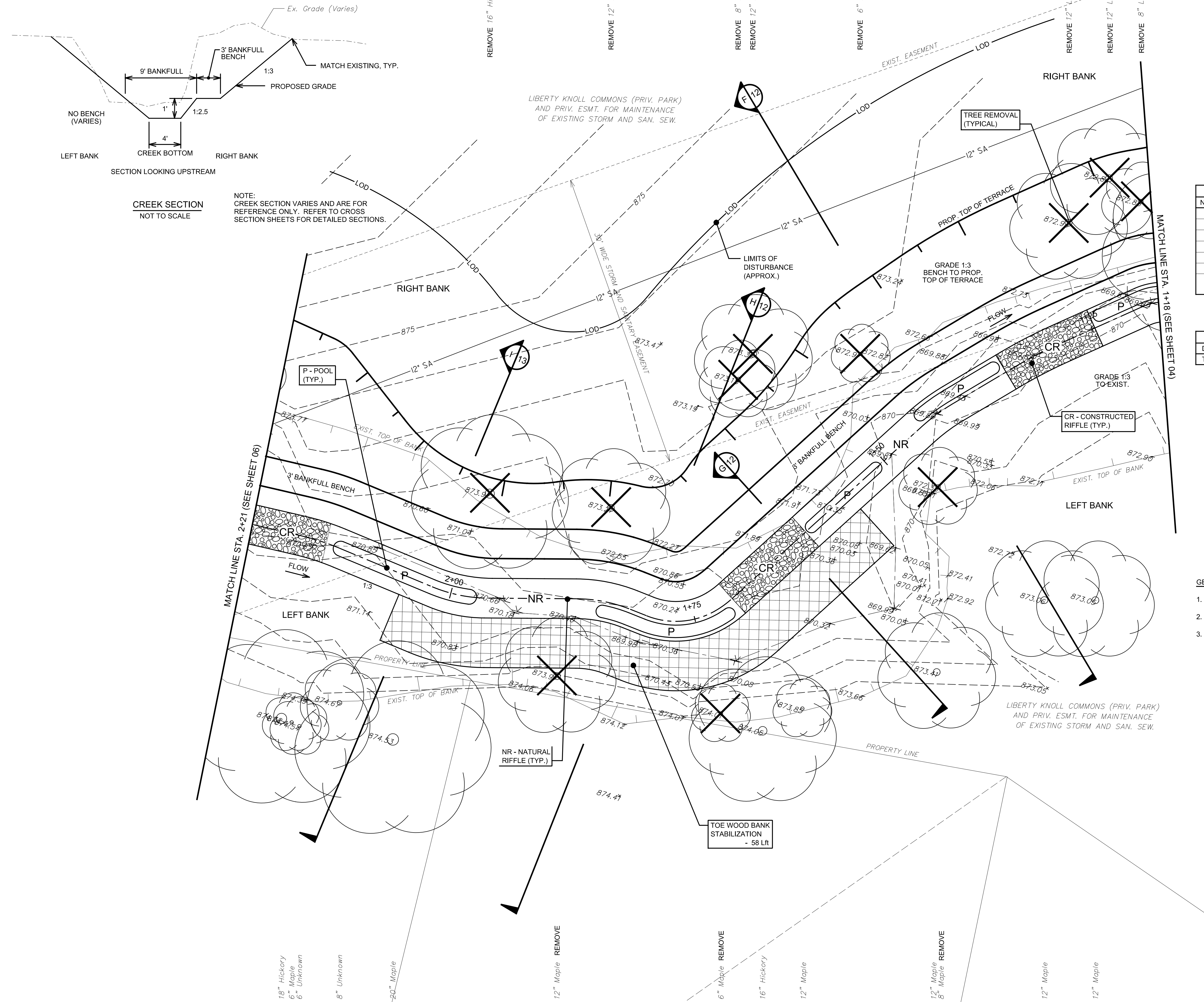
- GENERAL NOTES:

1. TOTAL DRAINAGE AREA FOR THIS PROJECT IS 124 Acres.
2. ALL SECTIONS ARE FACING UPSTREAM.
3. LEFT BANK AND RIGHT BANK ARE REFERENCED AS FACING UPSTREAM.

- TOE WOOD NOTES:

1. TOE WOOD STRUCTURE ORIENTATION IS LEFT AND RIGHT BANK LOOKING UPSTREAM.
2. TOE WOOD LENGTHS ARE MEASURED ALONG THE OUTSIDE, OUTER BANK OF THE STRUCTURE.
3. TOE WOOD STATIONS ARE BASED OFF OF THE CREEK CENTERLINE.
4. TOE WOOD SHALL BE ALIGNED WITH THE FACE OF THE STREAMBANK.
5. TOE WOOD SHALL BE EMBEDDED INTO THE BANK A MIN. OF 3 FEET BEYOND BENCH WHERE PROPOSED.
6. TOE WOOD WITH A BENCH SHALL HAVE PLANT PLUGS INSTALLED ON THE BENCH. TOE WOOD WITH NO BENCH WILL HAVE NO PLANT PLUGS INSTALLED.



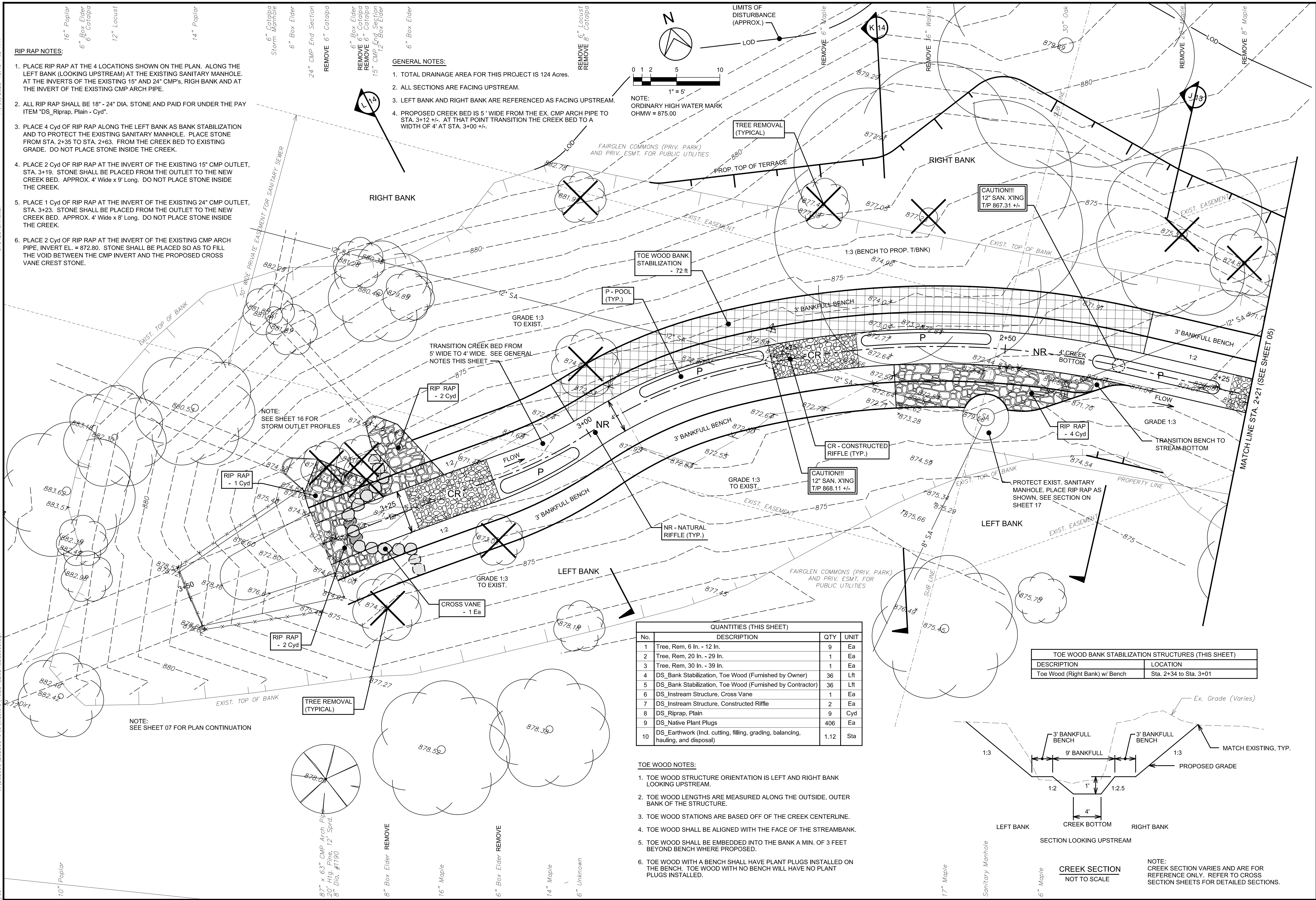


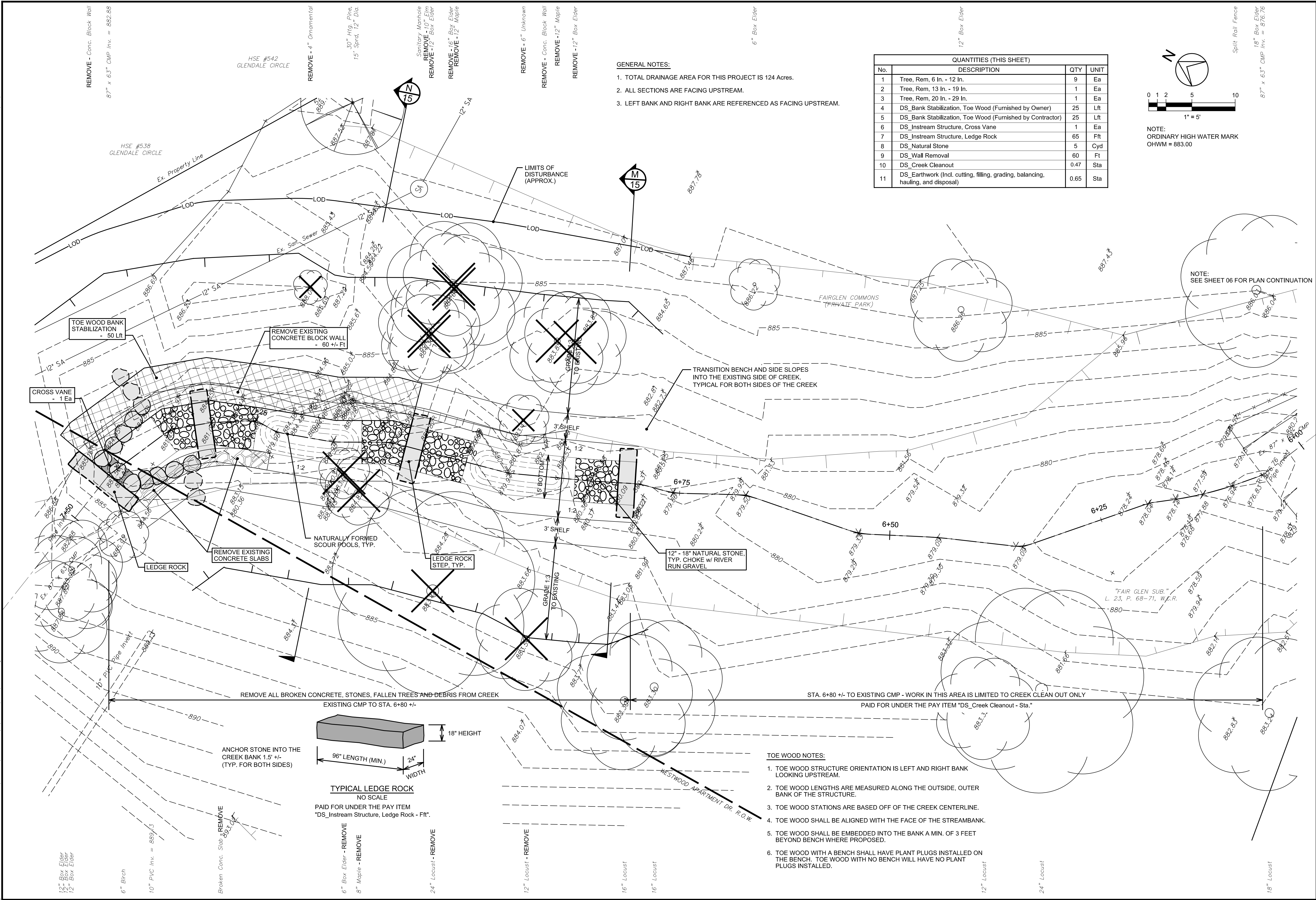
QUANTITIES (THIS SHEET)			
No.	DESCRIPTION	QTY	UNIT
1	Tree, Rem, 6 In. - 12 In.	10	Ea
2	Tree, Rem, 13 In. - 19 In.	1	Ea
3	DS_Bank Stabilization, Toe Wood (Furnished by Owner)	29	Lft
4	DS_Bank Stabilization, Toe Wood (Furnished by Contractor)	29	Lft
5	DS_Instream Structure, Constructed Riffle	3	Ea
6	DS_Native Plant Plugs	238	Ea
7	DS_Earthwork (Incl. cutting, filling, grading, balancing, hauling, and disposal)	1.03	Sta

TOE WOOD BANK STABILIZATION STRUCTURES (THIS SHEET)	
DESCRIPTION	LOCATION
Toe Wood (Left Bank) no Bench	Sta. 1+55 to Sta. 2+05

- TOE WOOD NOTES:**
1. TOE WOOD STRUCTURE ORIENTATION IS LEFT AND RIGHT BANK LOOKING UPSTREAM.
 2. TOE WOOD LENGTHS ARE MEASURED ALONG THE OUTSIDE, OUTER BANK OF THE STRUCTURE.
 3. TOE WOOD STATIONS ARE BASED OFF OF THE CREEK CENTERLINE.
 4. TOE WOOD SHALL BE ALIGNED WITH THE FACE OF THE STREAMBANK
 5. TOE WOOD SHALL BE EMBEDDED INTO THE BANK A MIN. OF 3 FEET BEYOND BENCH WHERE PROPOSED.
 6. TOE WOOD WITH A BENCH SHALL HAVE PLANT PLUGS INSTALLED ON THE BENCH. TOE WOOD WITH NO BENCH WILL HAVE NO PLANT PLUGS INSTALLED.

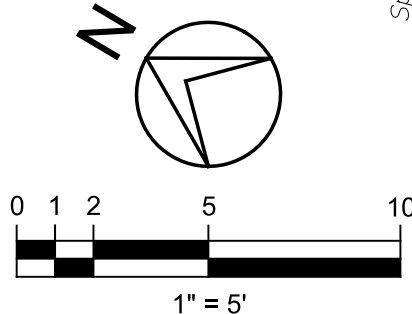
- GENERAL NOTES:
1. TOTAL DRAINAGE AREA FOR THIS PROJECT IS 124 Acres.
 2. ALL SECTIONS ARE FACING UPSTREAM.
 3. LEFT BANK AND RIGHT BANK ARE REFERENCED AS FACING UPSTREAM.





- GENERAL NOTES:
1. TOTAL DRAINAGE AREA FOR THIS PROJECT IS 124 Acres.
 2. ALL SECTIONS ARE FACING UPSTREAM.
 3. LEFT BANK AND RIGHT BANK ARE REFERENCED AS FACING UPSTREAM.

QUANTITIES (THIS SHEET)			
No.	DESCRIPTION	QTY	UNIT
1	Tree, Rem, 6 In. - 12 In.	9	Ea
2	Tree, Rem, 13 In. - 19 In.	1	Ea
3	Tree, Rem, 20 In. - 29 In.	1	Ea
4	DS_Bank Stabilization, Toe Wood (Furnished by Owner)	25	Lft
5	DS_Bank Stabilization, Toe Wood (Furnished by Contractor)	25	Lft
6	DS_Instream Structure, Cross Vane	1	Ea
7	DS_Instream Structure, Ledge Rock	65	Fft
8	DS_Natural Stone	5	Cyd
9	DS_Wall Removal	60	Ft
10	DS_Creek Cleanout	0.47	Sta
11	DS_Earthwork (Incl. cutting, filling, grading, balancing, hauling, and disposal)	0.65	Sta



NOTE:
ORDINARY HIGH WATER MARK
OHWM = 883.00

NOTE:
SEE SHEET 06 FOR PLAN CONTINUATION

- TOE WOOD NOTES:
1. TOE WOOD STRUCTURE ORIENTATION IS LEFT AND RIGHT BANK LOOKING UPSTREAM.
 2. TOE WOOD LENGTHS ARE MEASURED ALONG THE OUTSIDE, OUTER BANK OF THE STRUCTURE.
 3. TOE WOOD STATIONS ARE BASED OFF OF THE CREEK CENTERLINE.
 4. TOE WOOD SHALL BE ALIGNED WITH THE FACE OF THE STREAMBANK.
 5. TOE WOOD SHALL BE EMBEDDED INTO THE BANK A MIN. OF 3 FEET BEYOND BENCH WHERE PROPOSED.
 6. TOE WOOD WITH A BENCH SHALL HAVE PLANT PLUGS INSTALLED ON THE BENCH. TOE WOOD WITH NO BENCH WILL HAVE NO PLANT PLUGS INSTALLED.

11-07-2025

J.A.R.

F.B.

05-16-2025

J.A.R.

F.B.

02-24-2025

J.A.R.

F.B.

01-16-2025

J.A.R.

F.B.

10-31-2024

J.A.R.

F.B.

ISSUED FOR BIDS

REVISED PER ECL COMMENT

ISSUED FOR ECL PERMIT

ISSUED FOR PRELIMINARY REVIEW

ISSUED FOR CONCEPT REVIEW

REV.

DATE

CHECKED

CITY OF ANN ARBOR

PUBLIC SERVICES

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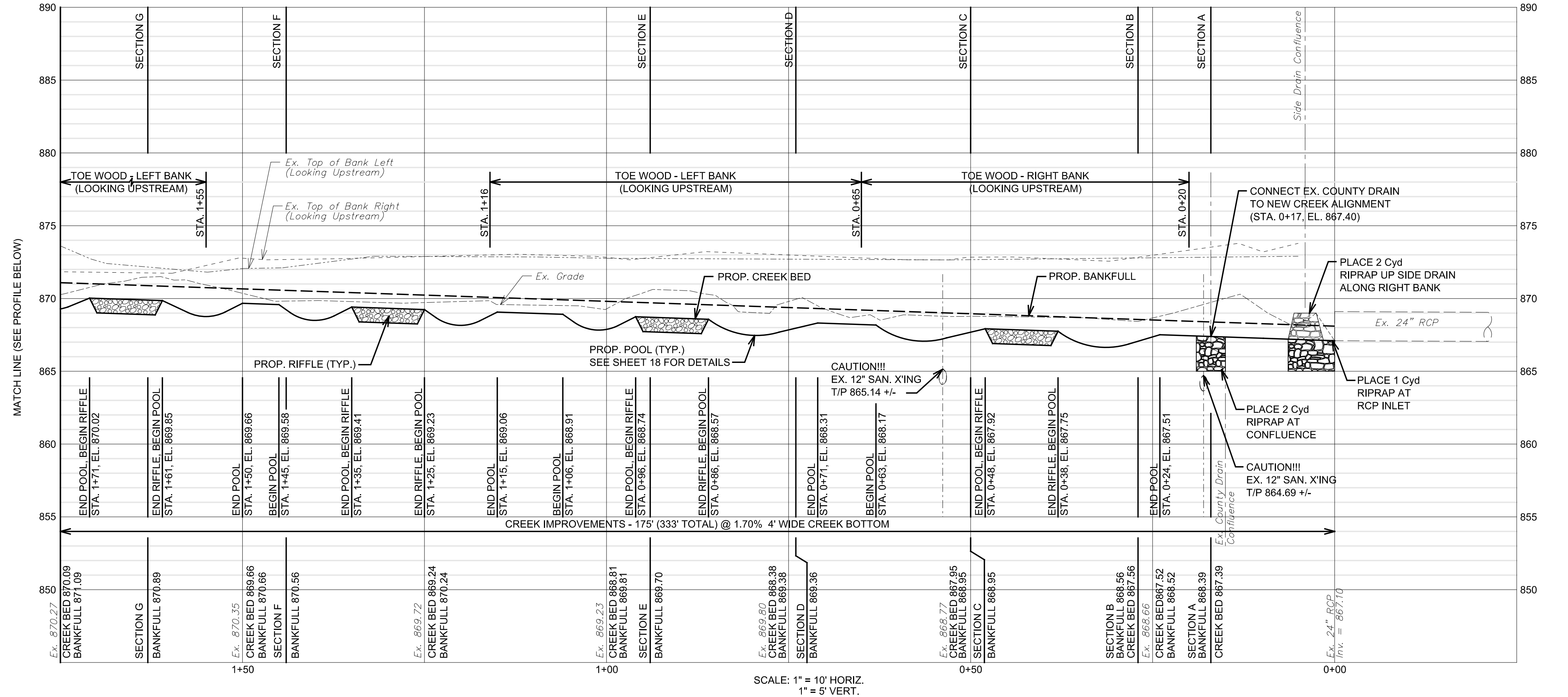
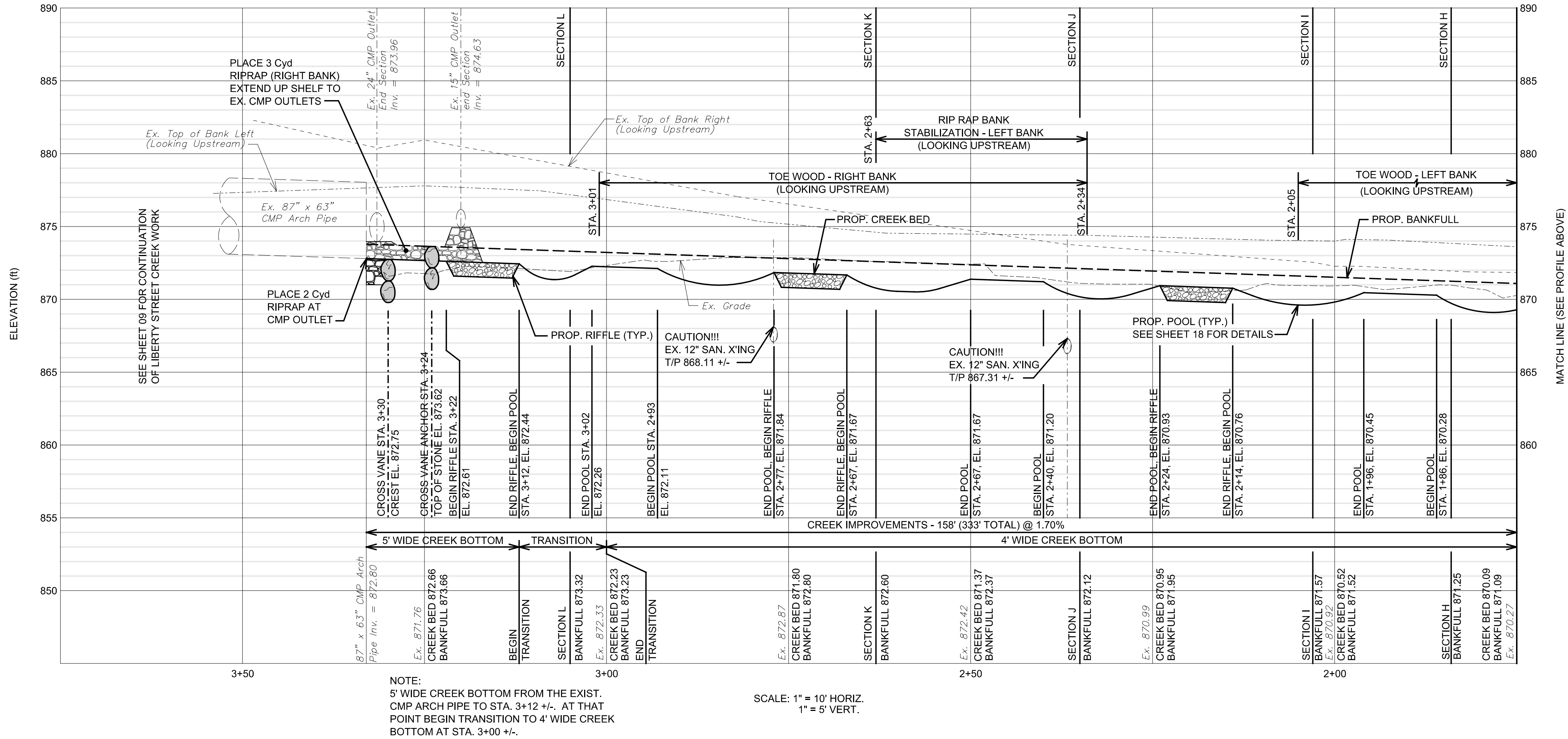
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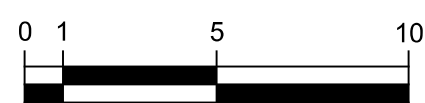
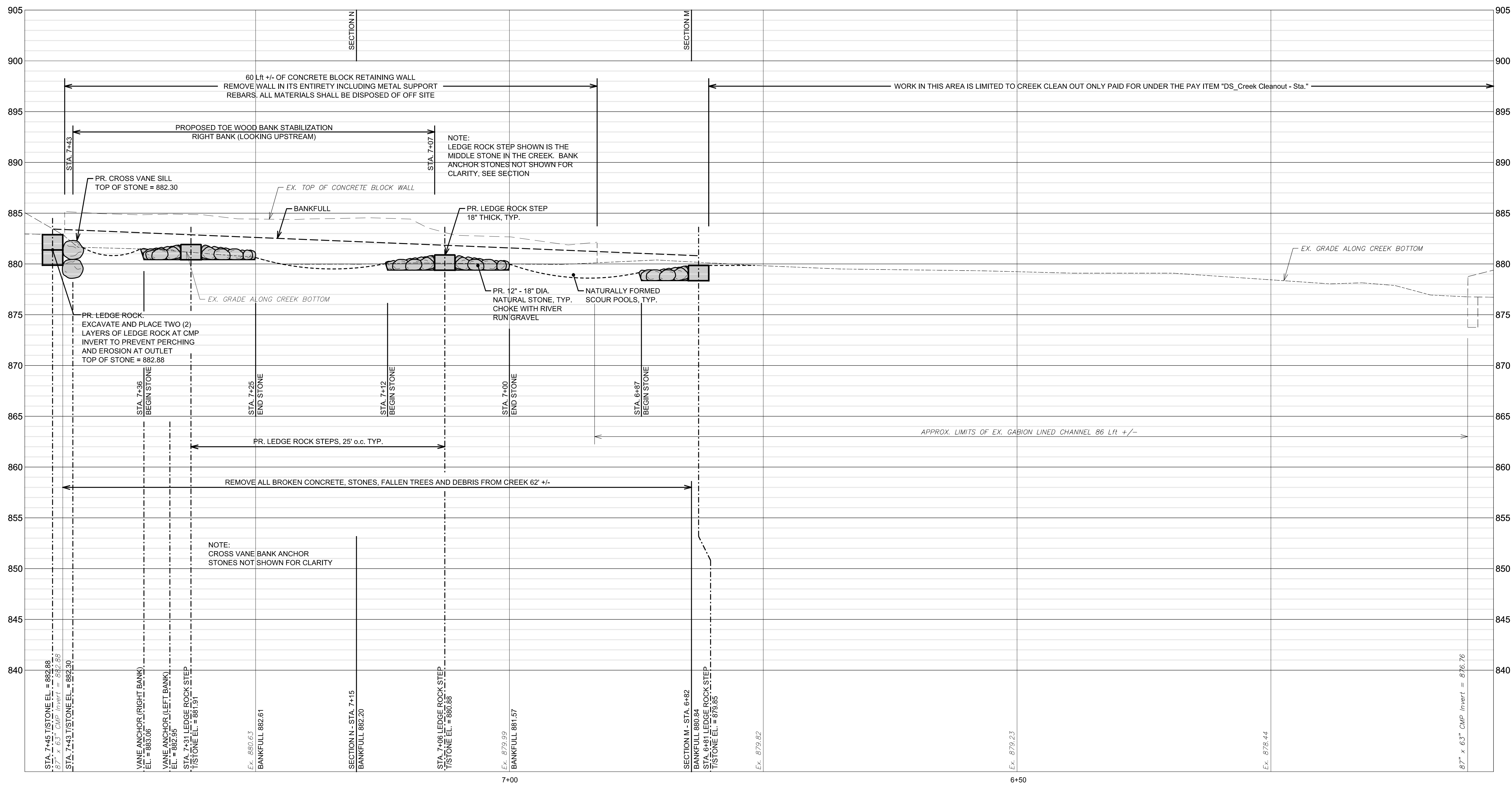
LIBERTY STREET CREEK RESTORATION

PLAN VIEW

SHEET No.

07





SCALE: 1" = 5' HORIZ.
1" = 5' VERT.

NOTE:
ORDINARY HIGH WATER MARK
OHWM = 883.00



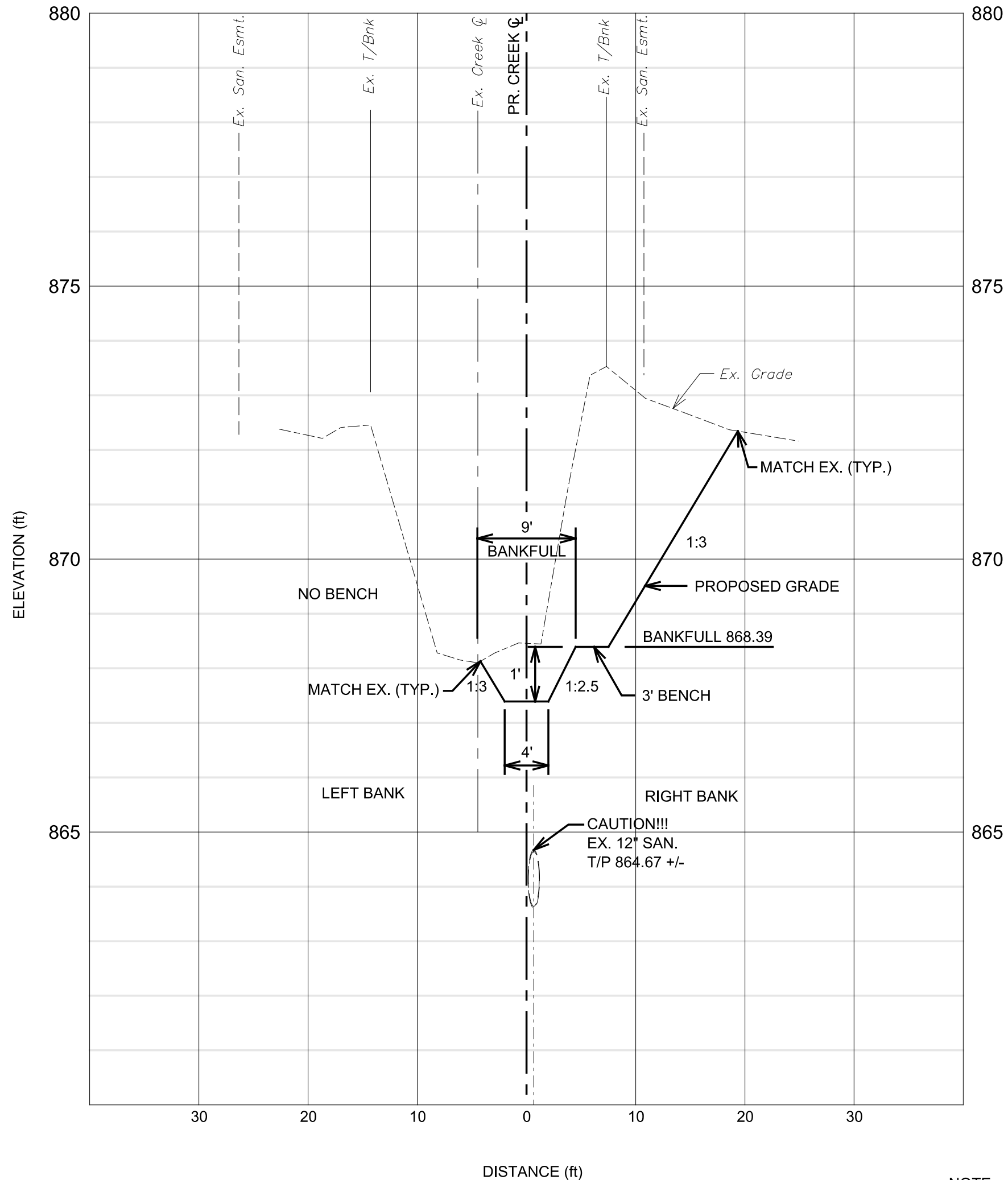
**CITY OF ANN ARBOR
PUBLIC SERVICES
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P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org**

PUBLIC SERVICES - ENGINEERING **LIBERTY STREET CREEK RESTORATION** **PROFILE**

REV.	DATE	DESCRIPTION
	10-31-2024	J.A.R. CHECKED
	01-16-2025	J.A.R. F.B.
	02-24-2025	J.A.R. F.B.
	05-16-2025	J.A.R. F.B.
	11-07-2025	J.A.R. F.B.

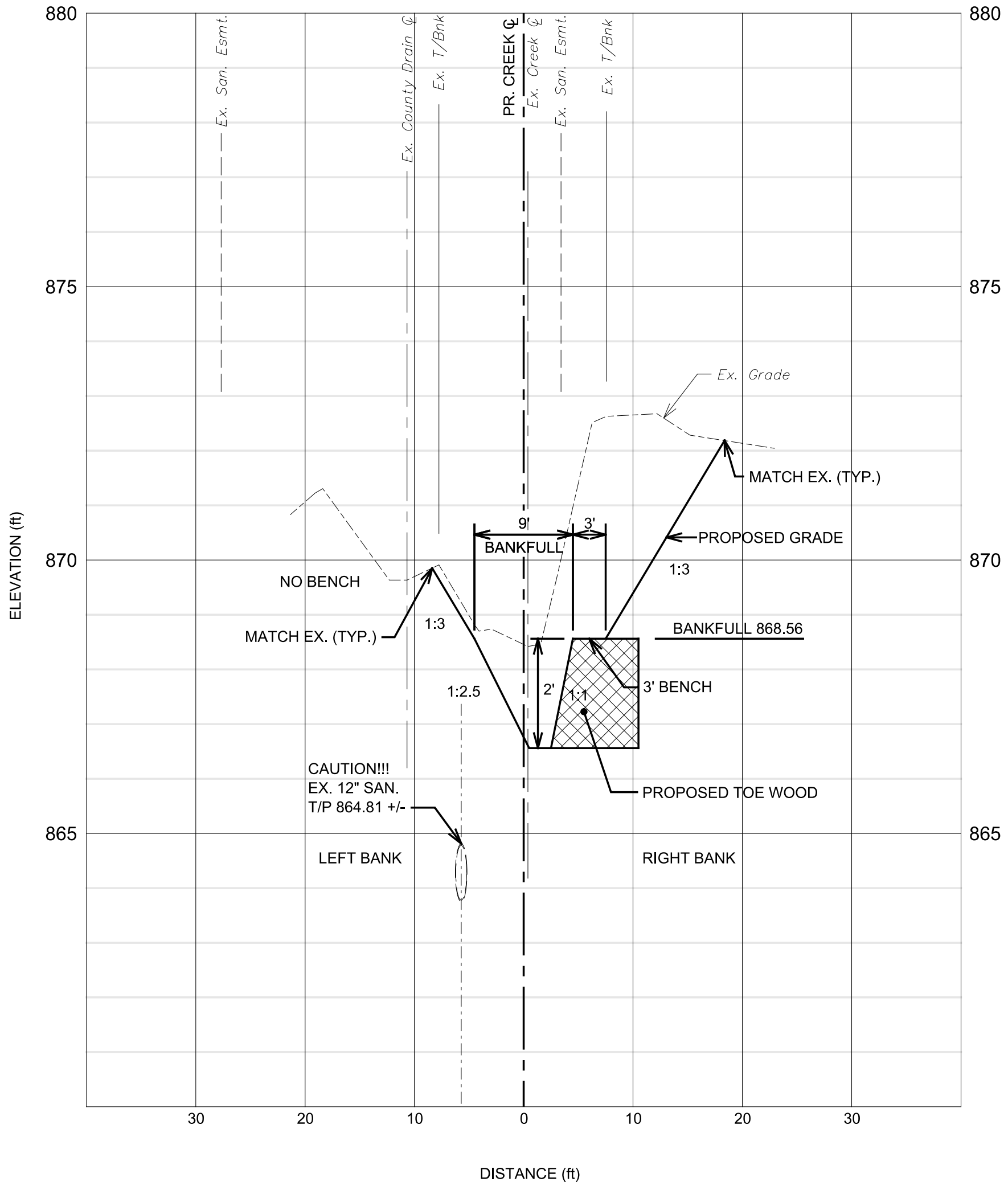
SEEDING AND STABILIZATION NOTES:

1. ALL PROPOSED BANKS SHALL BE SEEDED WITH NATIVE SEED MIX (AS DIRECTED) AND STABILIZED WITH TURF REINFORCEMENT BLANKETS.
2. ALL PROPOSED BANKFULL SHELVES SHALL BE SEEDED WITH BANKFULL BENCH SEED MIX (AS DIRECTED) AND STABILIZED WITH TURF REINFORCEMENT BLANKETS.
3. EXISTING BANKS AND OTHER DISTURBED AREAS SHALL BE SEEDED WITH NATIVE UPLAND WOODLAND SEED MIX (AS DIRECTED) AND STABILIZED WITH TURF REINFORCEMENT BLANKETS.
3. REFER TO THE PROJECT SPECIFICATIONS FOR DETAILED SPECIES, PROPORTIONS AND APPLICATION RATES OF THE SEED MIXES.



CREEK SECTION A
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.
STA. 0+17
NOTE: ALL SECTIONS ARE LOOKING UPSTREAM.

NOTE:
ORDINARY HIGH WATER MARK
OHWM = 872.00



CREEK SECTION B
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.
STA. 0+27
NOTE: ALL SECTIONS ARE LOOKING UPSTREAM.

TOE WOOD NOTES:

1. TOE WOOD SHALL BE ALIGNED WITH THE FACE OF THE STREAMBANK.
2. EMBED TOEWOOD INTO THE BANK A MIN. OF 3 FEET BEYOND BENCH WHERE PROPOSED.
3. TOE WOOD WITH A BENCH SHALL HAVE PLANT PLUGS INSTALLED ON THE BENCH. TOE WOOD WITH NO BENCH WILL HAVE NO PLANT PLUGS INSTALLED.



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
LIBERTY STREET CREEK RESTORATION
CROSS SECTIONS

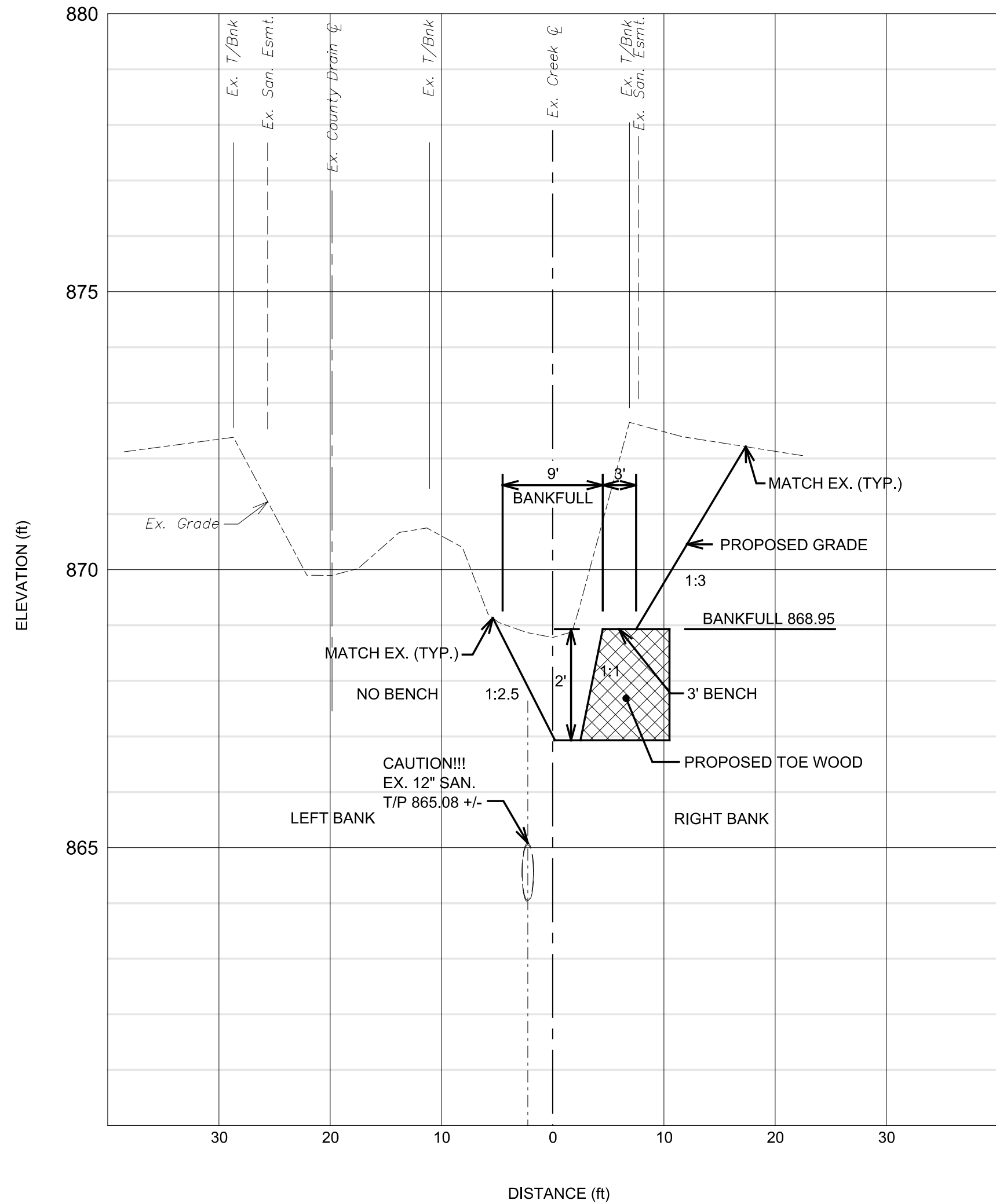
SCALE	1" = 10' HORIZ. 1" = 2' VERT.
DRAWING No.	

SHEET No.

ISSUED FOR BIDS	11-07-2025	J.A.R.	F.B.
REVISED PER ECL PERMIT	05-16-2025	J.A.R.	F.B.
ISSUED FOR ECL PERMIT	02-24-2025	J.A.R.	F.B.
ISSUED FOR PRELIMINARY REVIEW	01-16-2025	J.A.R.	F.B.
ISSUED FOR CONCEPT REVIEW	10-31-2024	J.A.R.	F.B.
REV.	DATE	DRAWN	CHECKED



Know what's below.
Call before you dig.

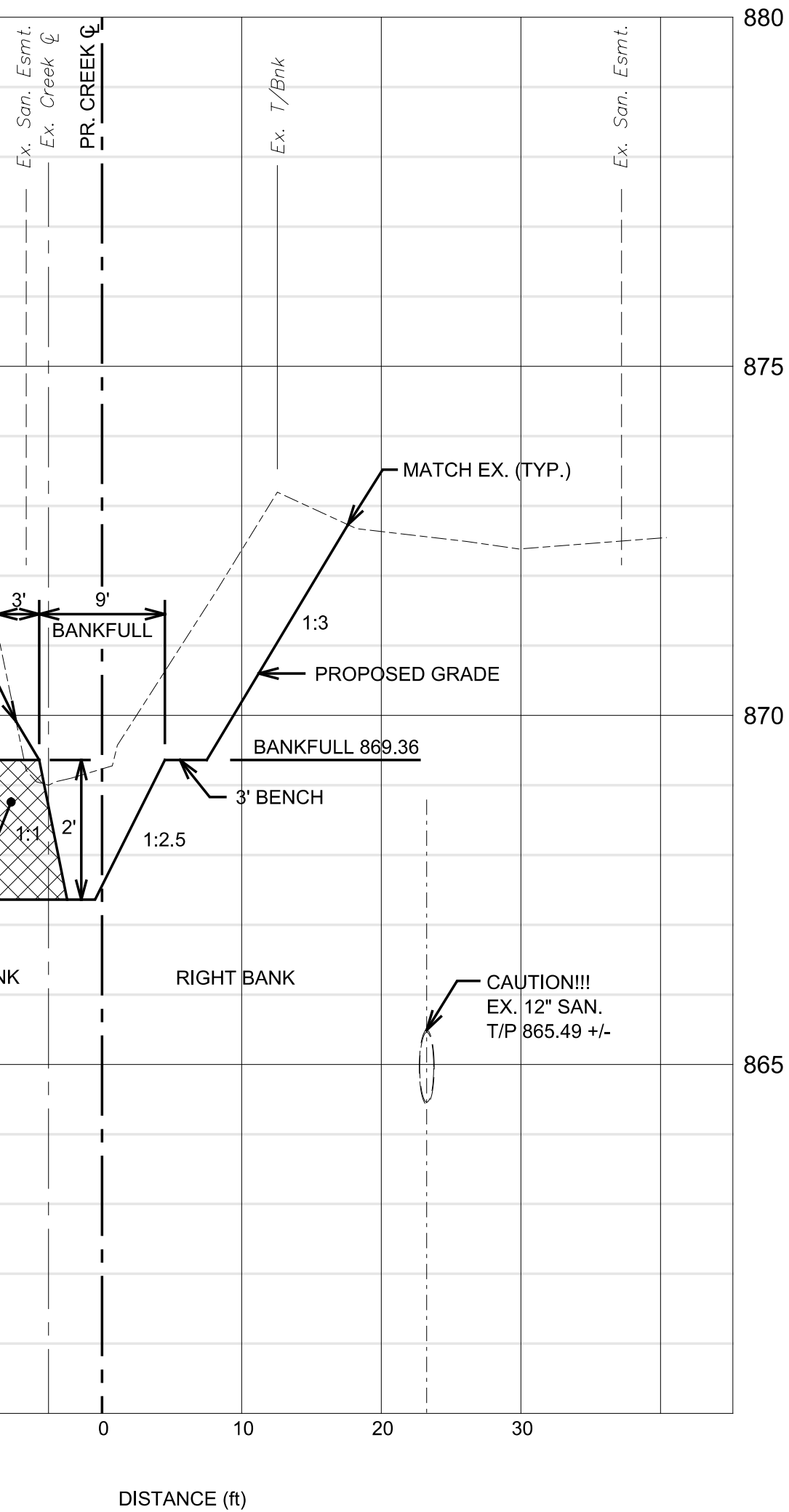


CREEK SECTION **C**
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.
04
STA. 0+50

NOTE:
ALL SECTIONS ARE LOOKING UPSTREAM.

TOE WOOD NOTES:

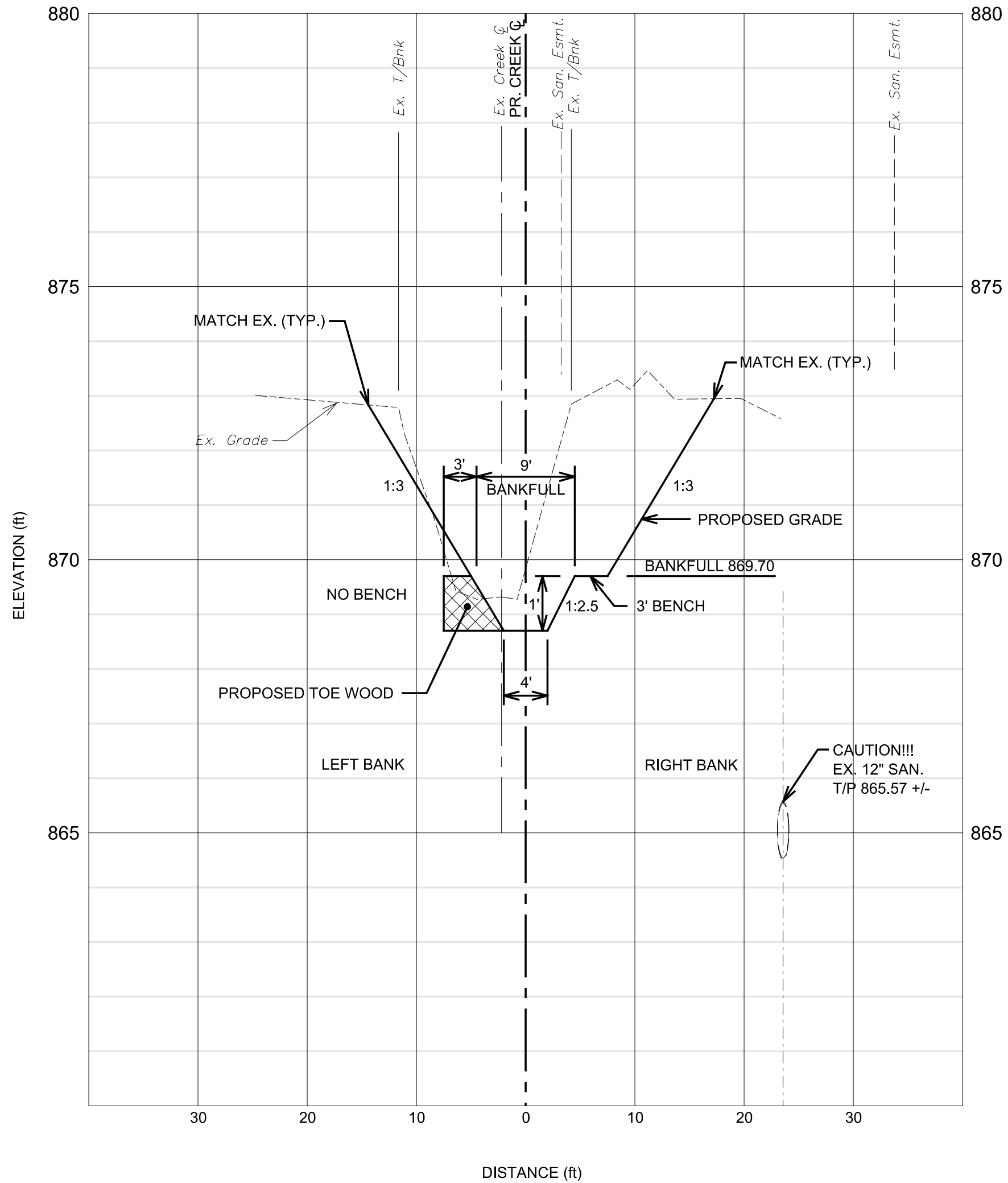
- TOE WOOD SHALL BE ALIGNED WITH THE FACE OF THE STREAMBANK.
- EMBED TOEWOOD INTO THE BANK A MIN. OF 3 FEET BEYOND BENCH WHERE PROPOSED.
- TOE WOOD WITH A BENCH SHALL HAVE PLANT PLUGS INSTALLED ON THE BENCH. TOE WOOD WITH NO BENCH WILL HAVE NO PLANT PLUGS INSTALLED.



CREEK SECTION **D**
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.
04
STA. 0+74

NOTE:
ALL SECTIONS ARE LOOKING UPSTREAM.

NOTE:
ORDINARY HIGH WATER MARK
OHWM = 872.00

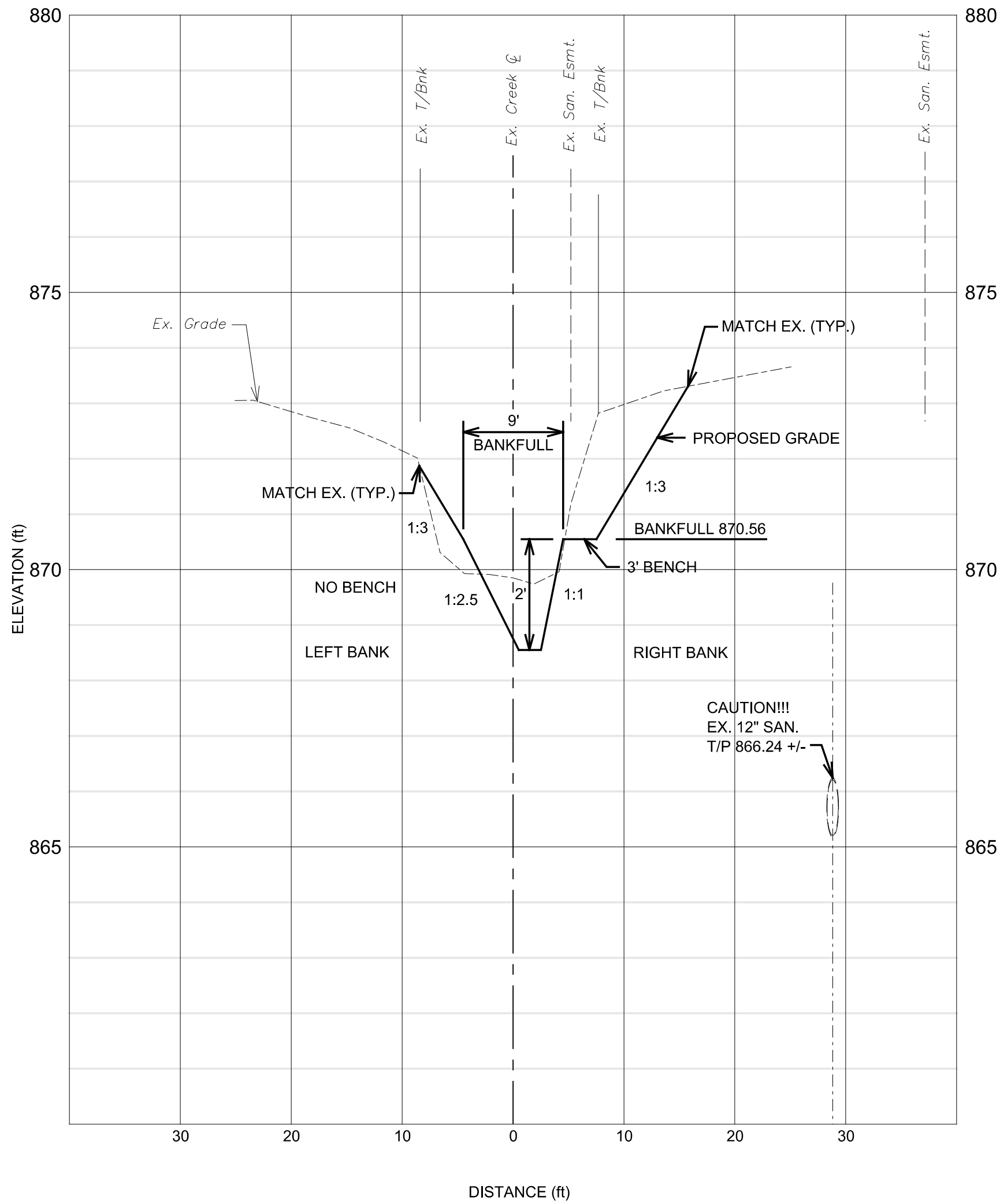


CREEK SECTION **E**
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.
04
STA. 0+94

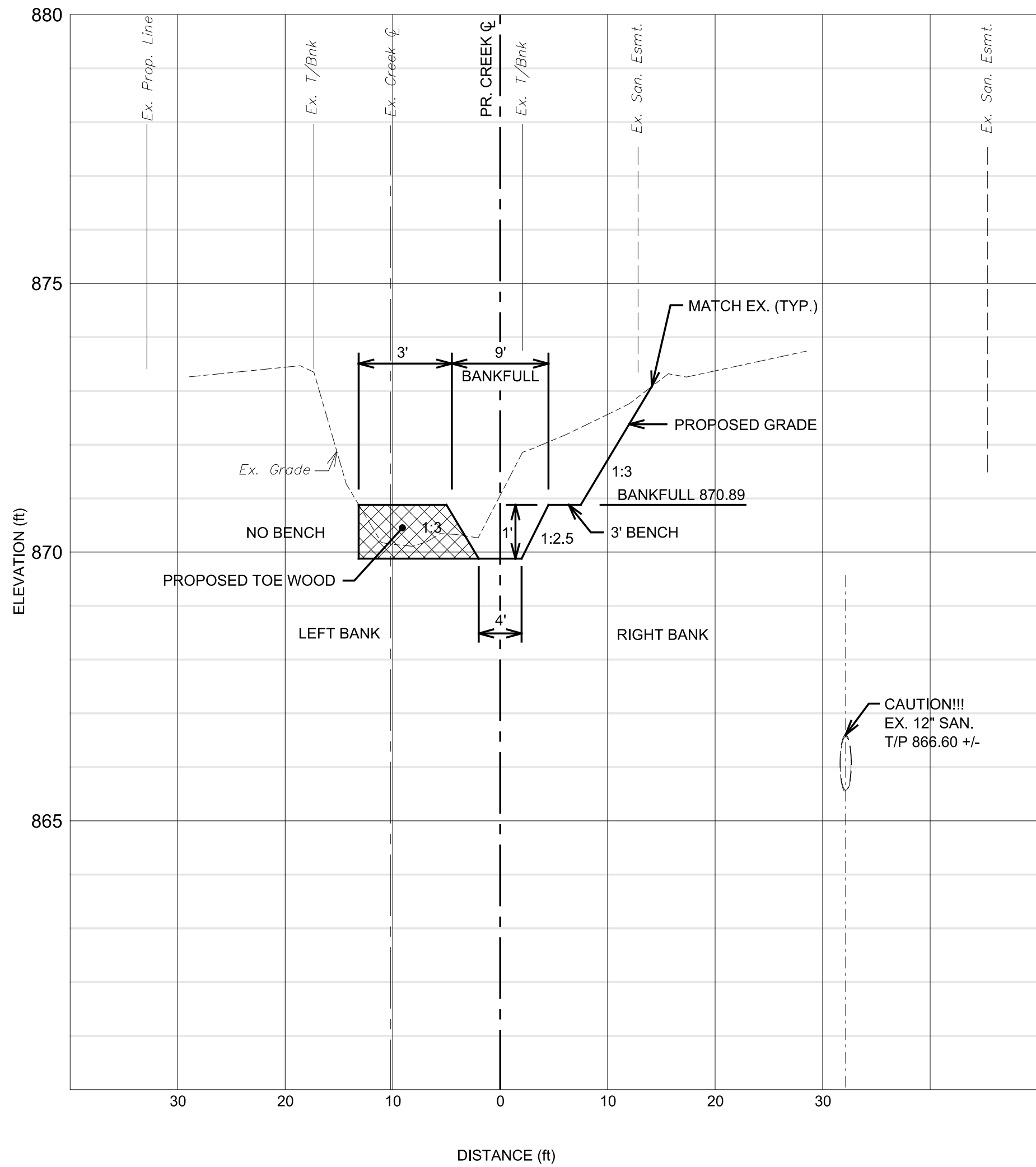
NOTE:
ALL SECTIONS ARE LOOKING UPSTREAM.

SEEDING AND STABILIZATION NOTES:

- ALL PROPOSED BANKS SHALL BE SEEDED WITH NATIVE SEED MIX (AS DIRECTED) AND STABILIZED WITH TURF REINFORCEMENT BLANKETS.
- ALL PROPOSED BANKFULL SHELVES SHALL BE SEEDED WITH BANKFULL BENCH SEED MIX (AS DIRECTED) AND STABILIZED WITH TURF REINFORCEMENT BLANKETS.
- EXISTING BANKS AND OTHER DISTURBED AREAS SHALL BE SEEDED WITH NATIVE UPLAND WOODLAND SEED MIX (AS DIRECTED) AND STABILIZED WITH TURF REINFORCEMENT BLANKETS.
- REFER TO THE PROJECT SPECIFICATIONS FOR DETAILED SPECIES, PROPORTIONS AND APPLICATION RATES OF THE SEED MIXES.

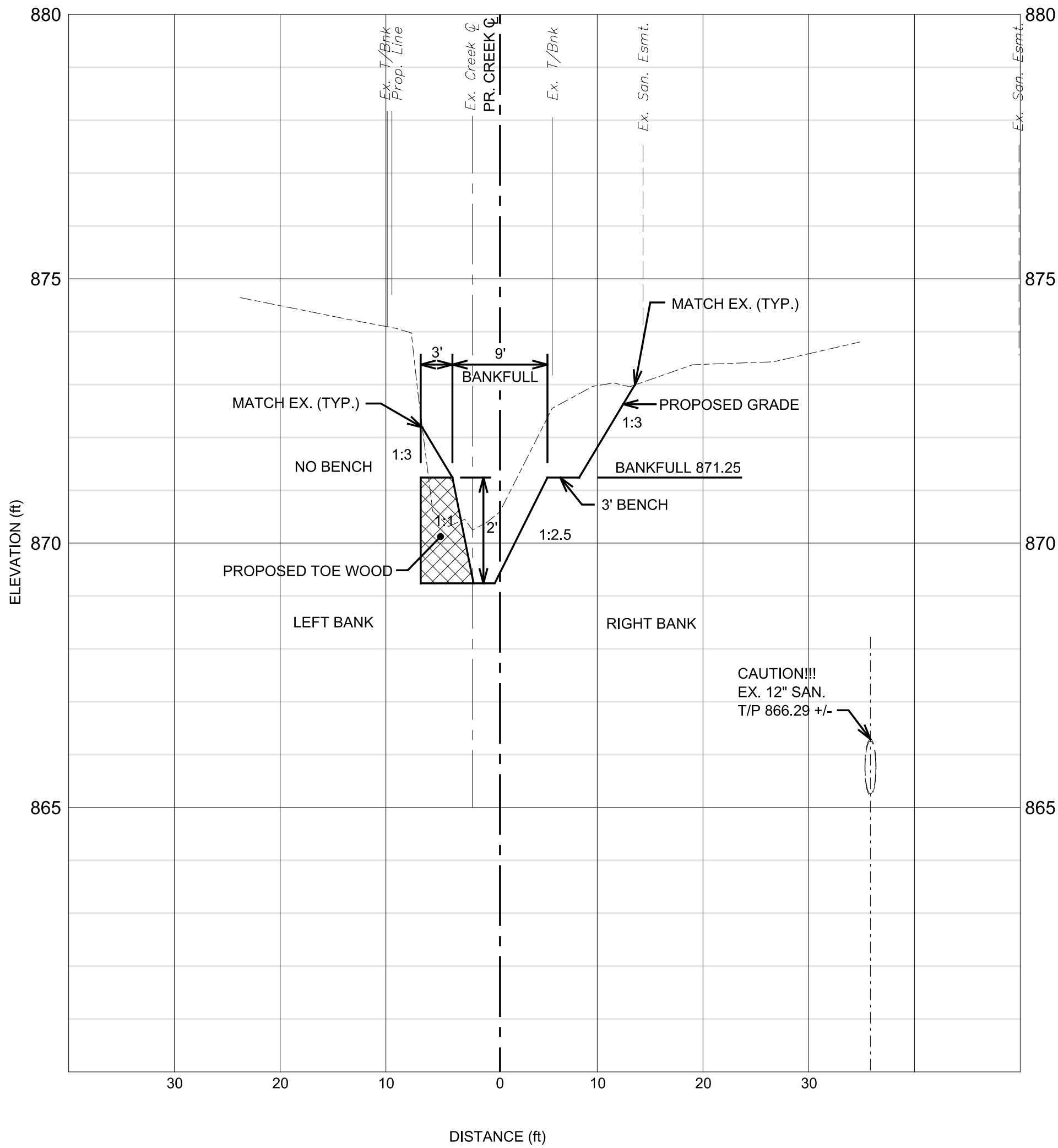


CREEK SECTION F
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.
STA. 1+44
NOTE:
ALL SECTIONS ARE LOOKING UPSTREAM.



CREEK SECTION G
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.
STA. 1+63
NOTE:
ALL SECTIONS ARE LOOKING UPSTREAM.

NOTE:
ORDINARY HIGH WATER MARK
OHWM = 872.00

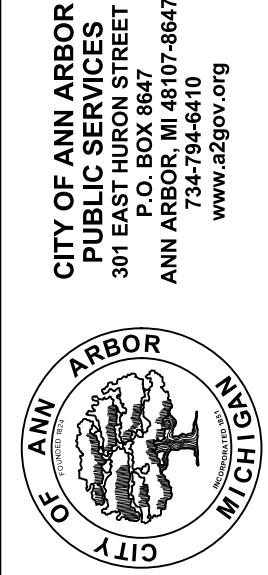


CREEK SECTION H
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.
STA. 1+84
NOTE:
ALL SECTIONS ARE LOOKING UPSTREAM.

- TOE WOOD NOTES:
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 - EMBED TOEWOOD INTO THE BANK A MIN. OF 3 FEET BEYOND BENCH WHERE PROPOSED.
 - TOE WOOD WITH A BENCH SHALL HAVE PLANT PLUGS INSTALLED ON THE BENCH. TOE WOOD WITH NO BENCH WILL HAVE NO PLANT PLUGS INSTALLED.

SEEDING AND STABILIZATION NOTES:

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LIBERTY STREET CREEK RESTORATION
CROSS SECTIONS

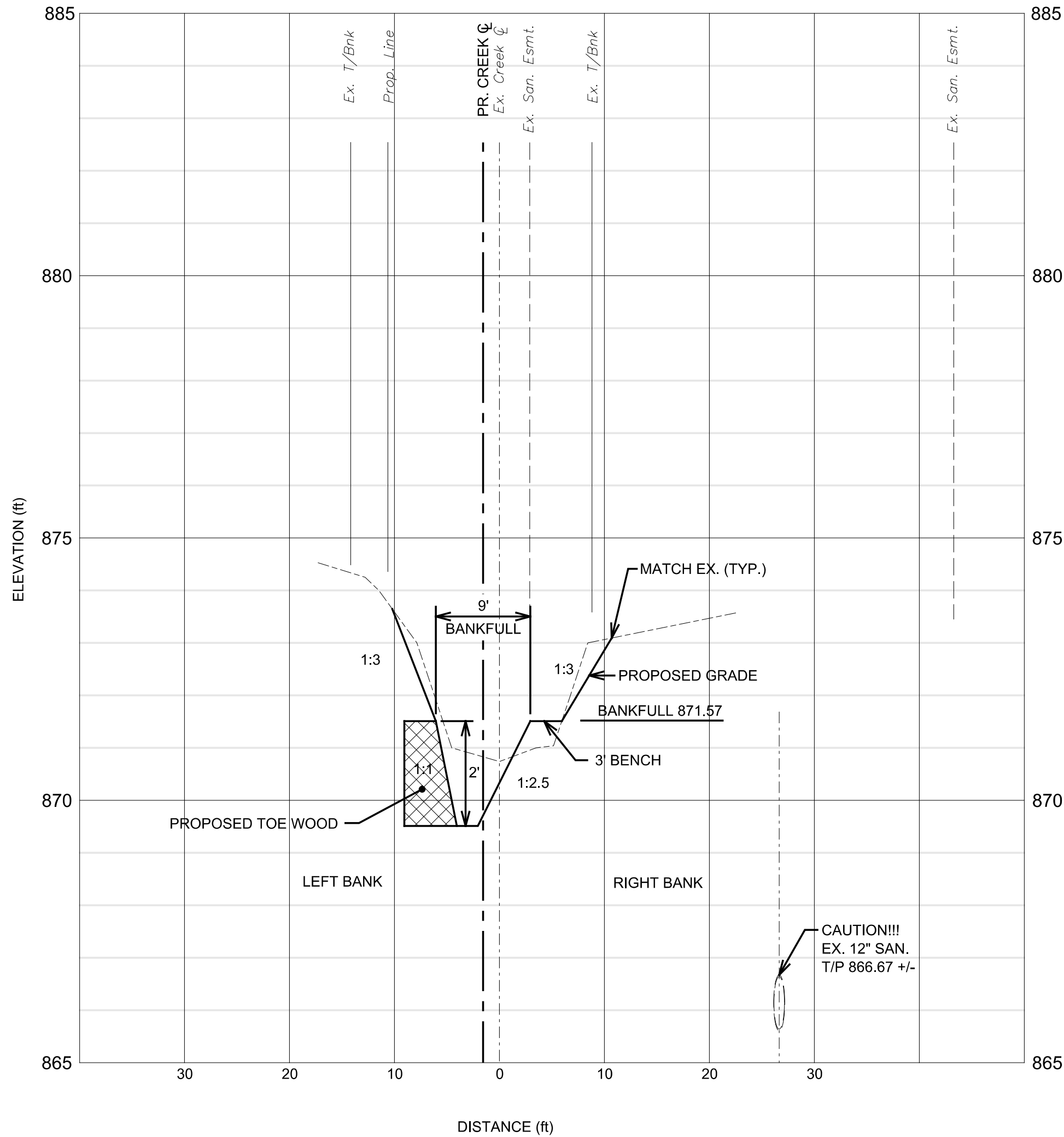
SCALE	DRAWING No.
1" = 10' HORIZ. 1" = 2' VERT.	

ISSUED FOR BIDS	REVISED PER ECL PERMIT	ISSUED FOR ECL PERMIT	ISSUED FOR PRELIMINARY REVIEW	ISSUED FOR CONCEPT REVIEW	REV.	DATE	DRAWN	CHECKED	F.B.	J.A.R.	11-07-2025	05-16-2025	02-24-2025	01-16-2025	10-31-2024



SEEDING AND STABILIZATION NOTES:

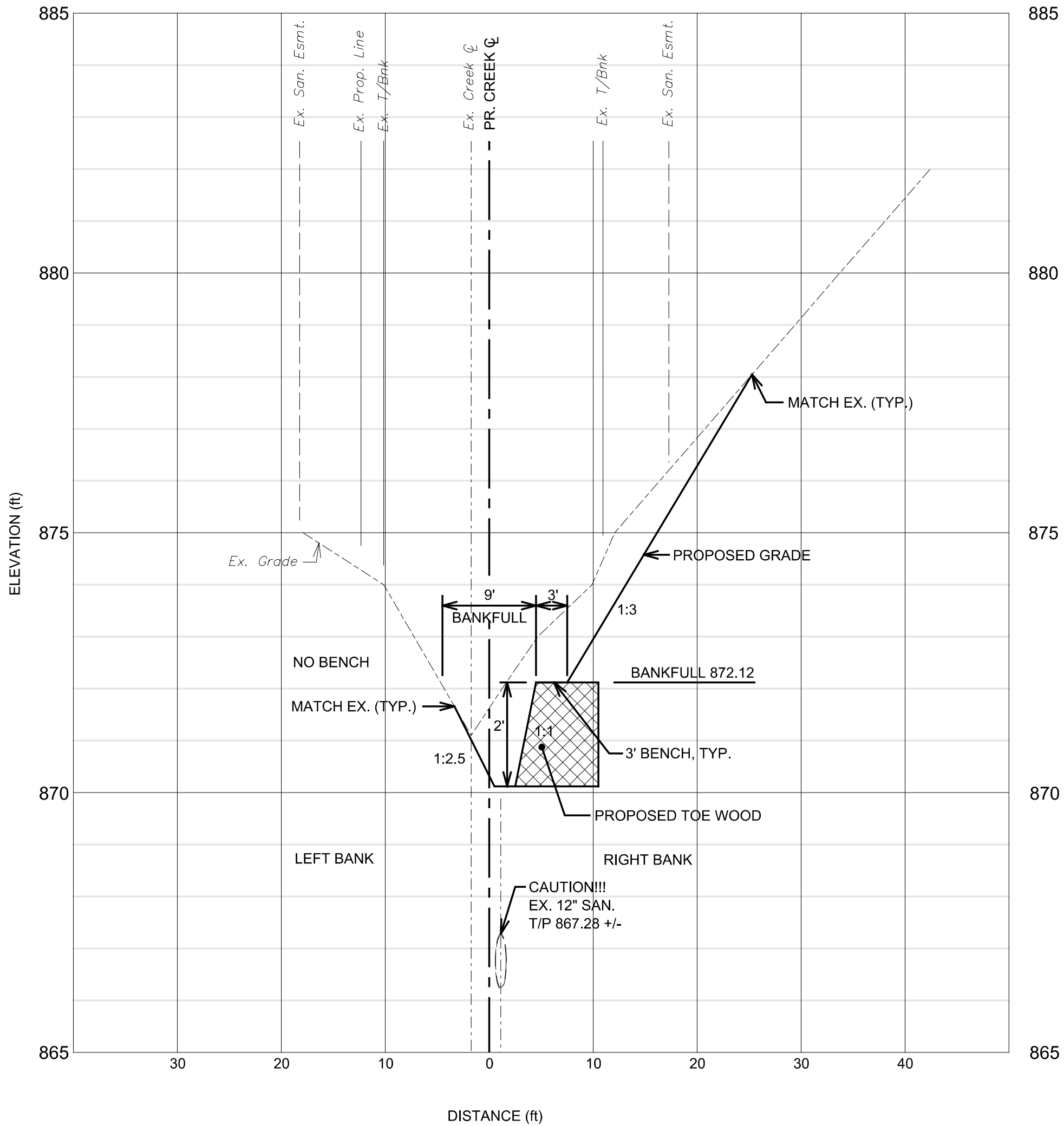
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CREEK SECTION I
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.
STA. 2+03
NOTE:
ALL SECTIONS ARE LOOKING UPSTREAM.

NOTE:
ORDINARY HIGH WATER MARK
OHWM = 872.00

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CREEK SECTION J
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.
STA. 2+35
NOTE:
ALL SECTIONS ARE LOOKING UPSTREAM.

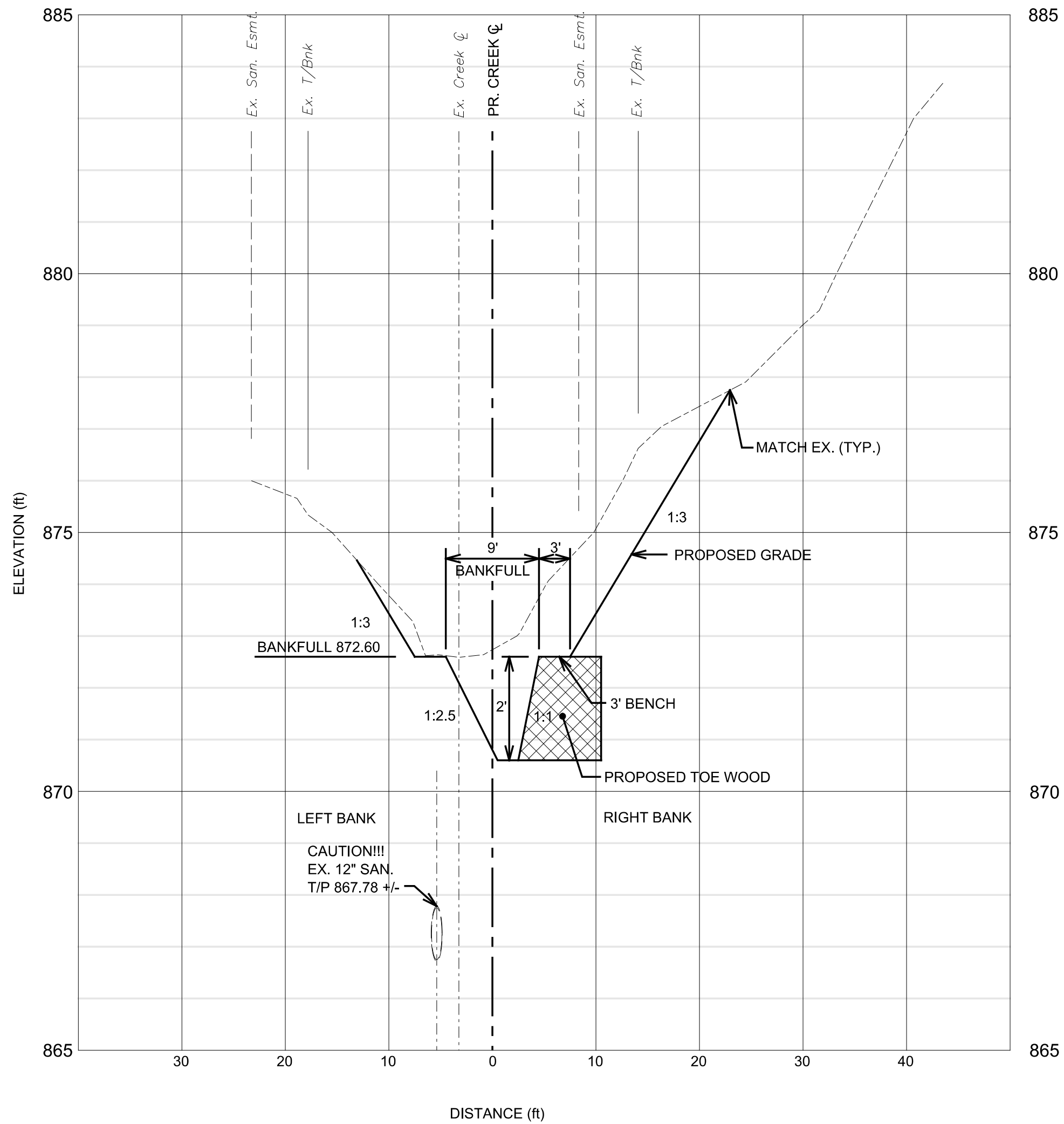
NOTE:
ORDINARY HIGH WATER MARK
OHWM = 875.00

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REVISED PER ECL PERMIT	05-16-2025	J.A.R.	F.B.
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REV.	DATE	DRAWN	CHECKED

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CROSS SECTIONS

SCALE 1" = 10' HORIZ. 1" = 2' VERT.	SHEET No.
DRAWING No.	13



CREEK SECTION **K**
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.
STA. 2+03

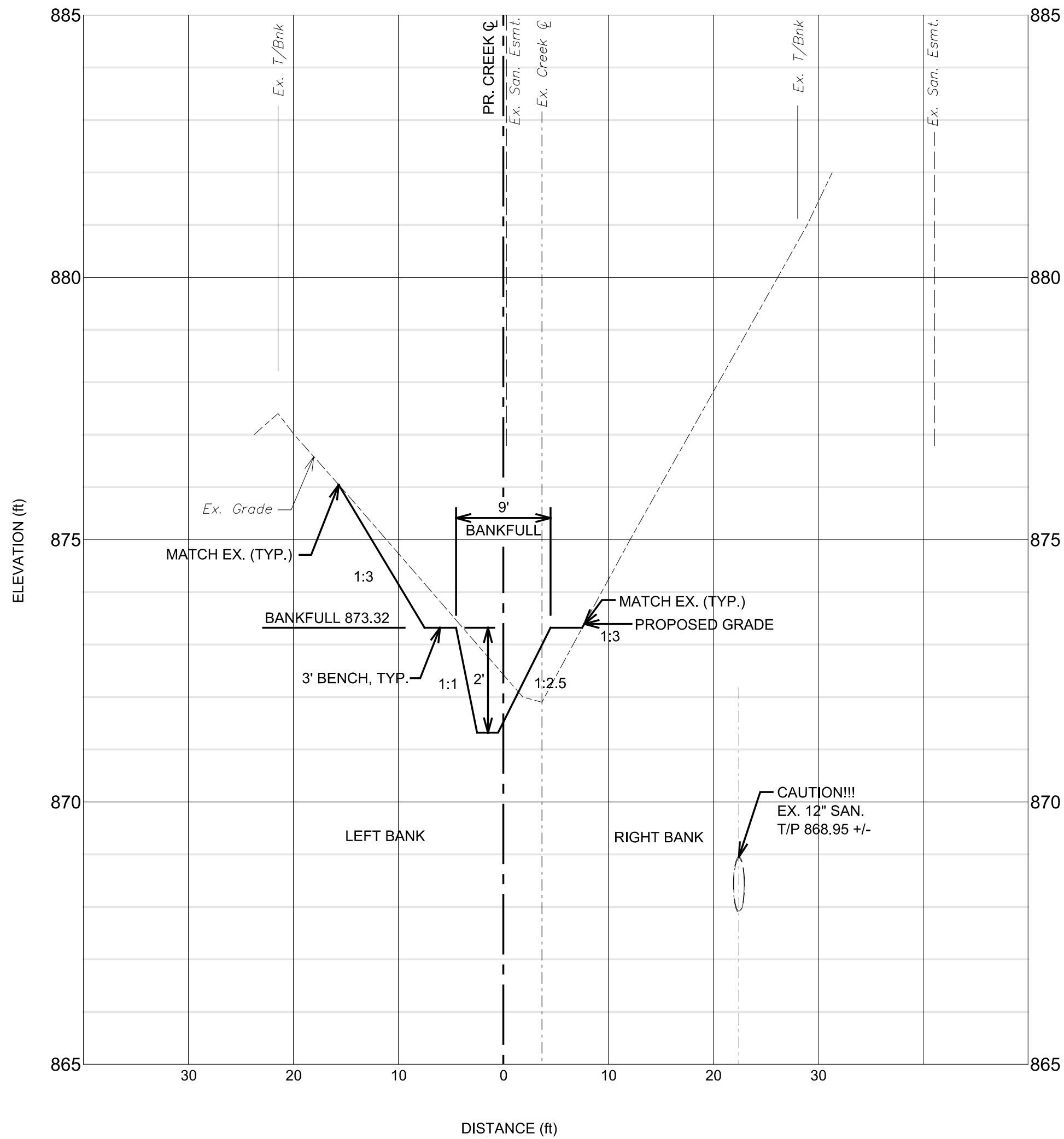
NOTE:
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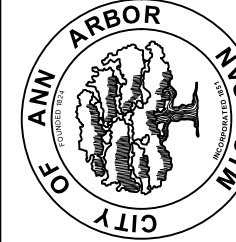
CREEK SECTION **L**
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.
STA. 3+05

NOTE:
ALL SECTIONS ARE LOOKING UPSTREAM.



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REV.	DATE	DRAWN	CHECKED

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LIBERTY STREET CREEK RESTORATION
CROSS SECTIONS

SCALE	1" = 10' HORIZ. 1" = 2' VERT.
DRAWING No.	

SHEET No.

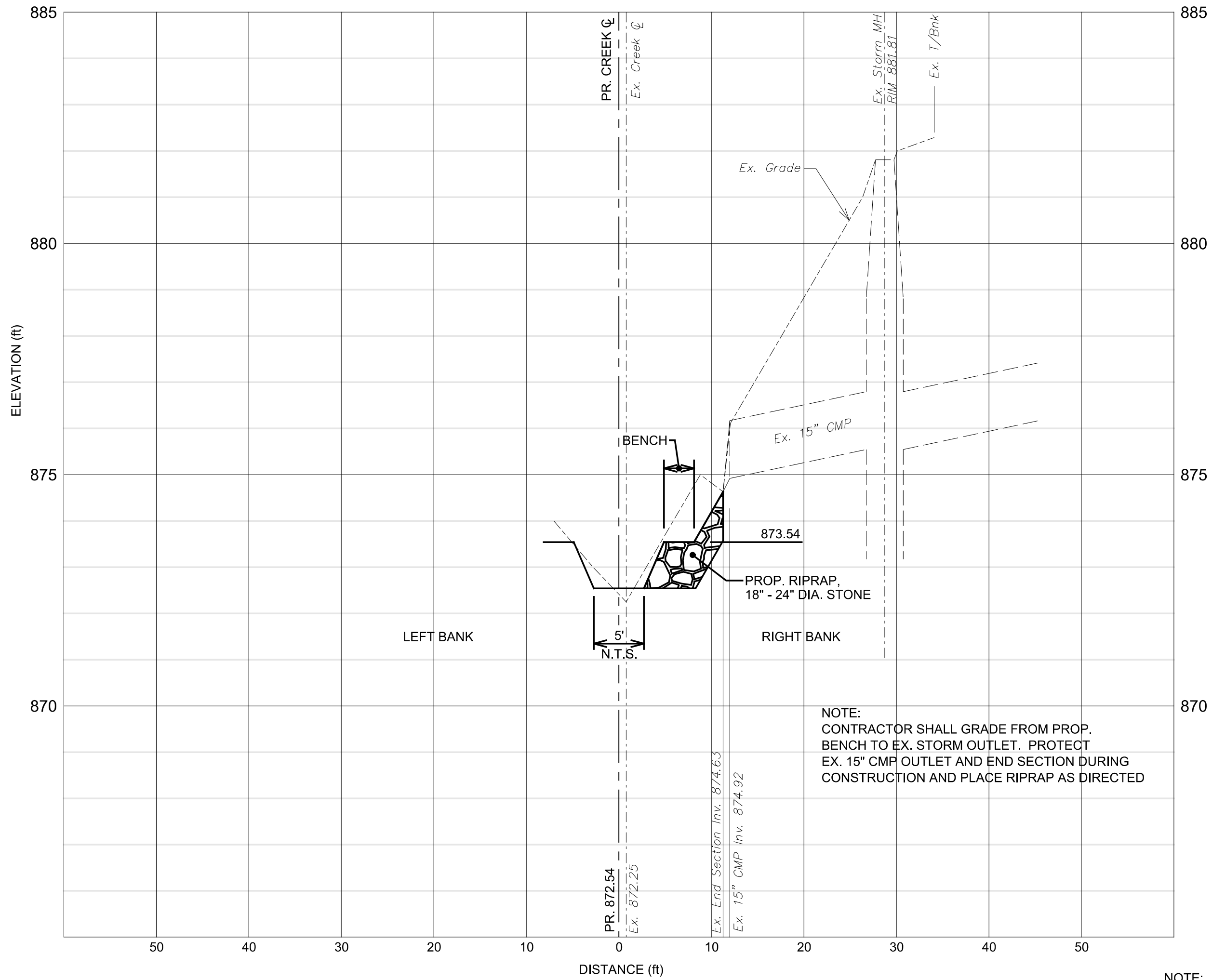
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NOTE:
ORDINARY HIGH WATER MARK
OHWM = 883.00



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15" CMP CULVERT SECTION

SCALE: 1" = 10' HORIZ.
1" = 2' VERT.

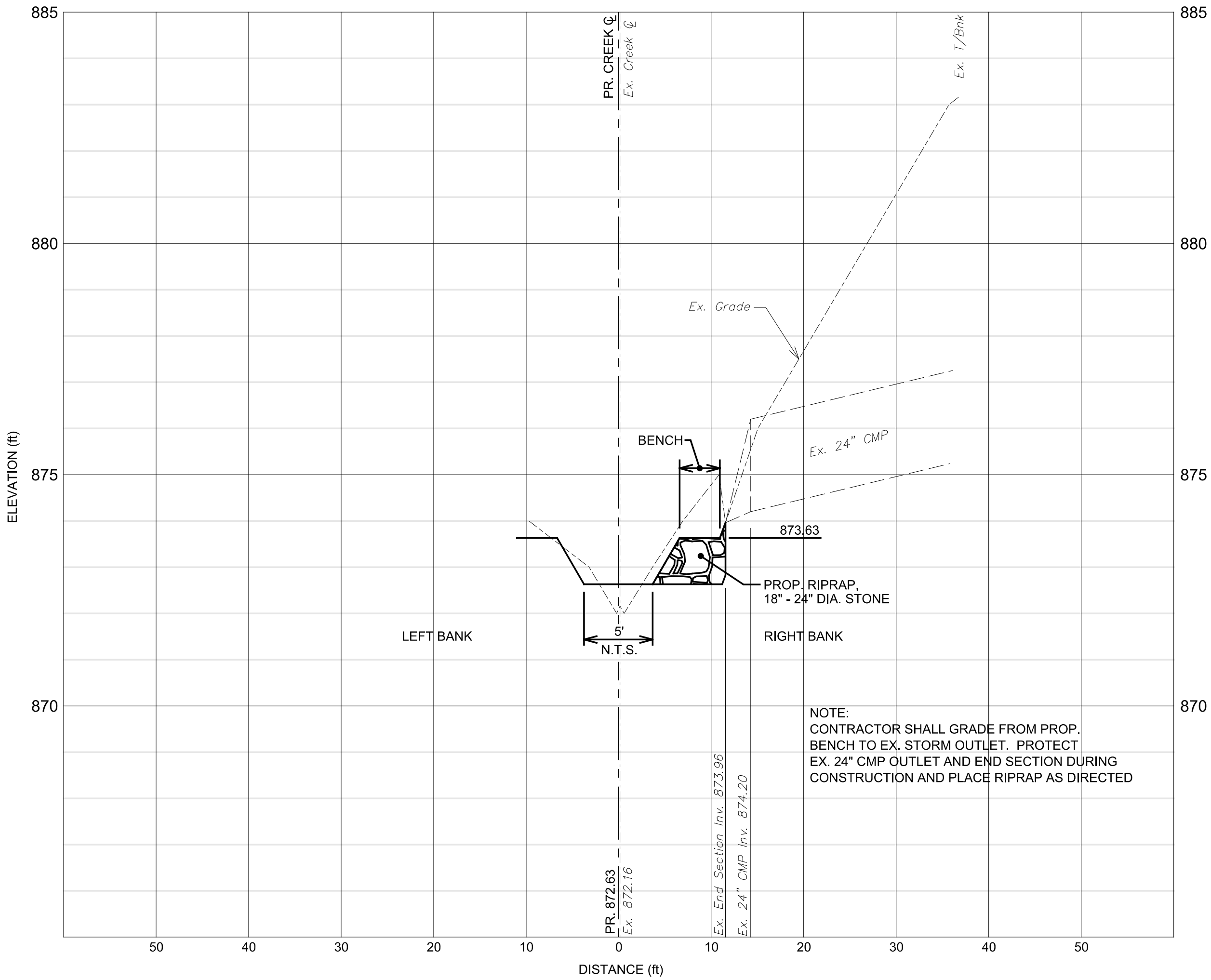
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NOTE:
SEE SHEET 05 FOR STORM OUTLET PLAN LOCATIONS. SECTIONS SHOWN ARE THROUGH THE EXISTING 15" AND 24" OUTLETS. DIMENSIONS SHOWN FOR THE CREEK BOTTOM ARE N.T.S. (NOT TO SCALE)

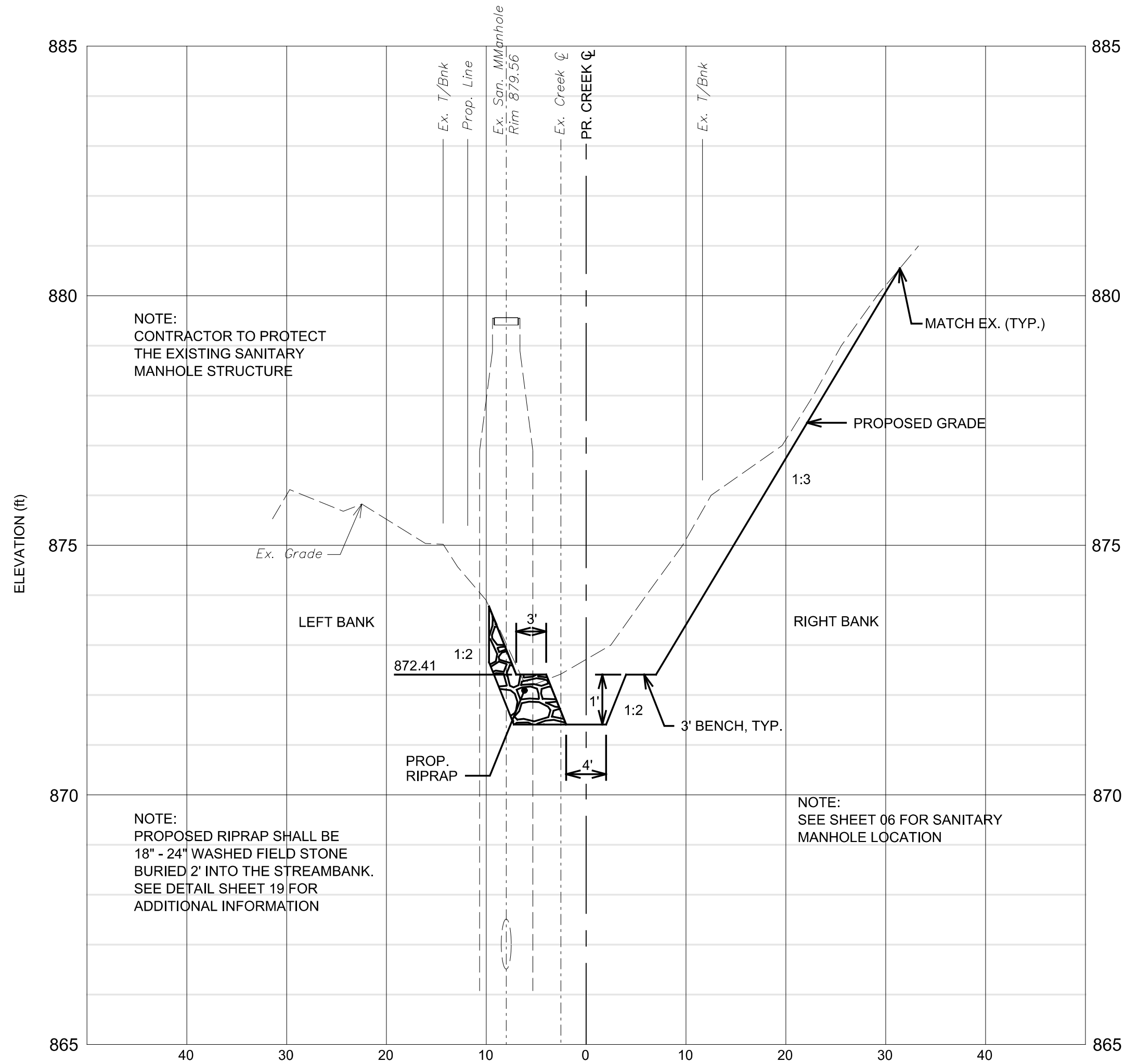
NOTE:
ORDINARY HIGH WATER MARK
OHWM = 875.00



24" CMP CULVERT SECTION

SCALE: 1" = 10' HORIZ.
1" = 2' VERT.

NOTE:
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SECTION AT EX. SANITARY MANHOLE

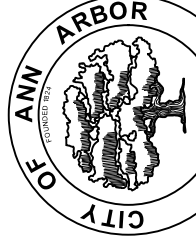
SCALE: 1" = 10' HORIZ.
1" = 2' VERT.

NOTE:
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NOTE:
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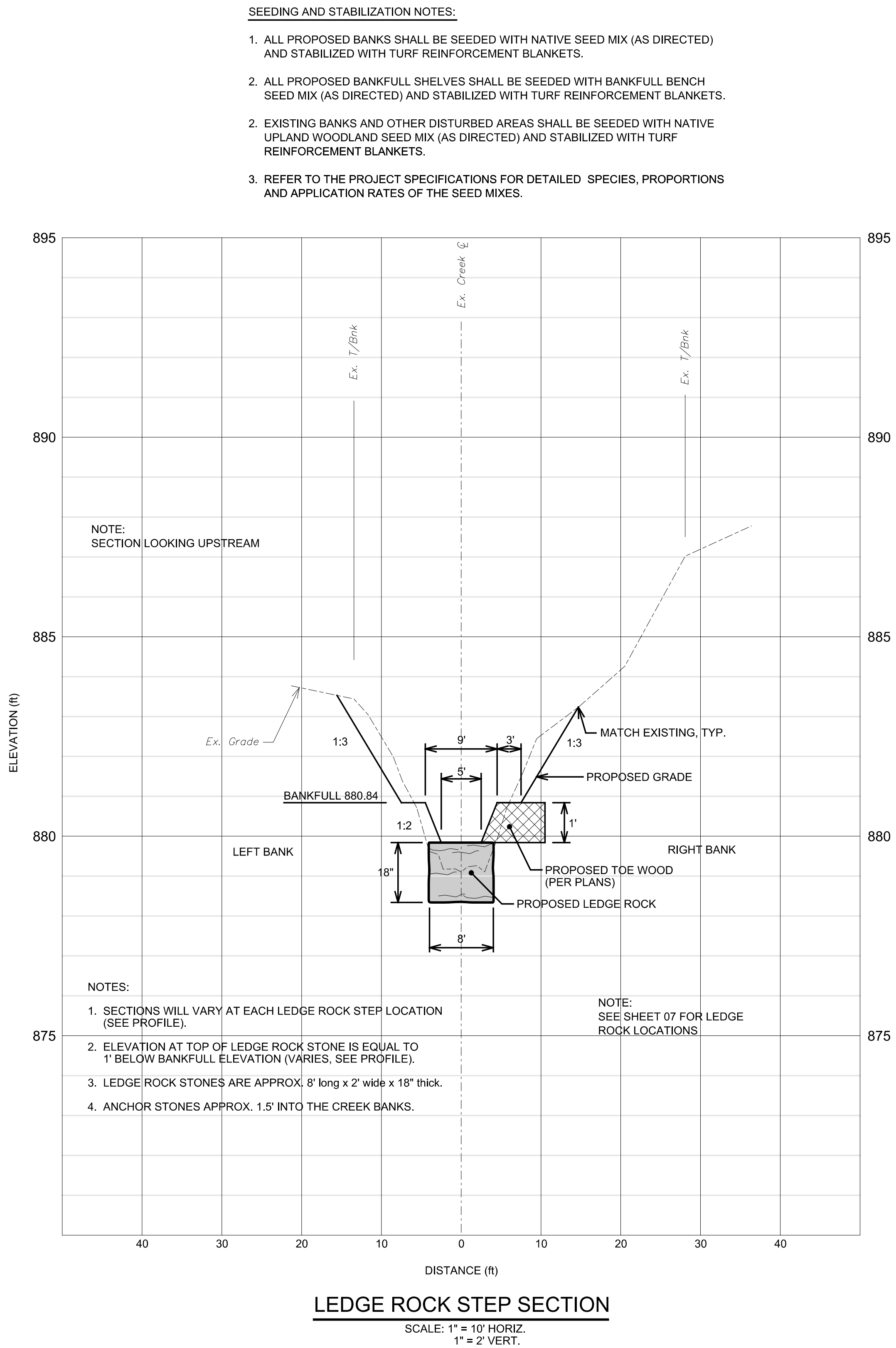


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Know what's below.
Call before you dig.



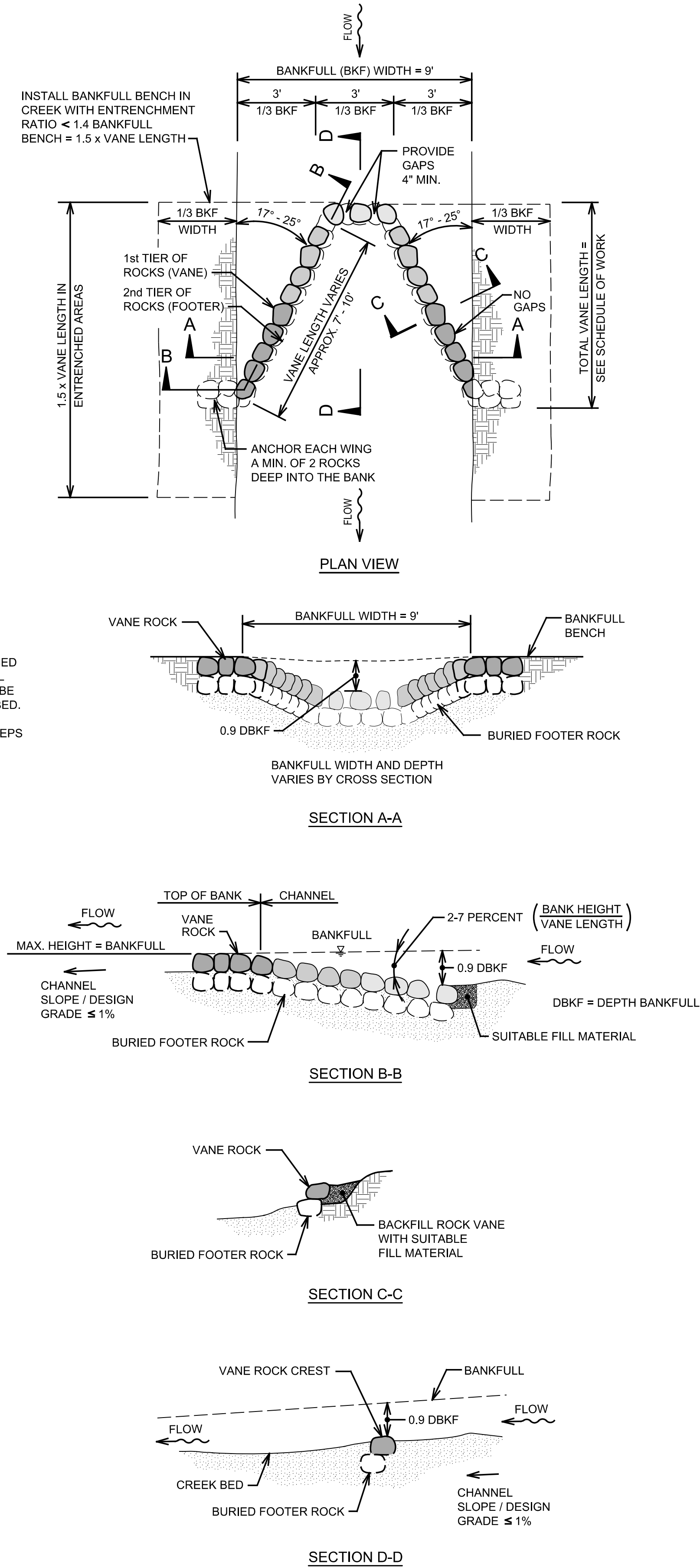
GENERAL NOTES:

1. ALL VANE & FOOTER ROCKS FOR THE PROPOSED CROSS VANES SHALL BE 18" - 24" DIA. NATURAL ROUND FIELD STONE. FOOTER ROCKS SHALL BE ONE (1) LAYER AND BURIED INTO THE CREEK BED.
2. STONES FOR THE PROPOSED LEDGE ROCK STEPS SHALL BE AS FOLLOWS:

LEDGE ROCK STONE DIMENSIONS SHALL BE 18" H x 24" W x 96" L (APPROX.).

12" - 18" NATURAL ROUND FIELD STONE CHOKED OFF WITH RIVER RUN GRAVEL.

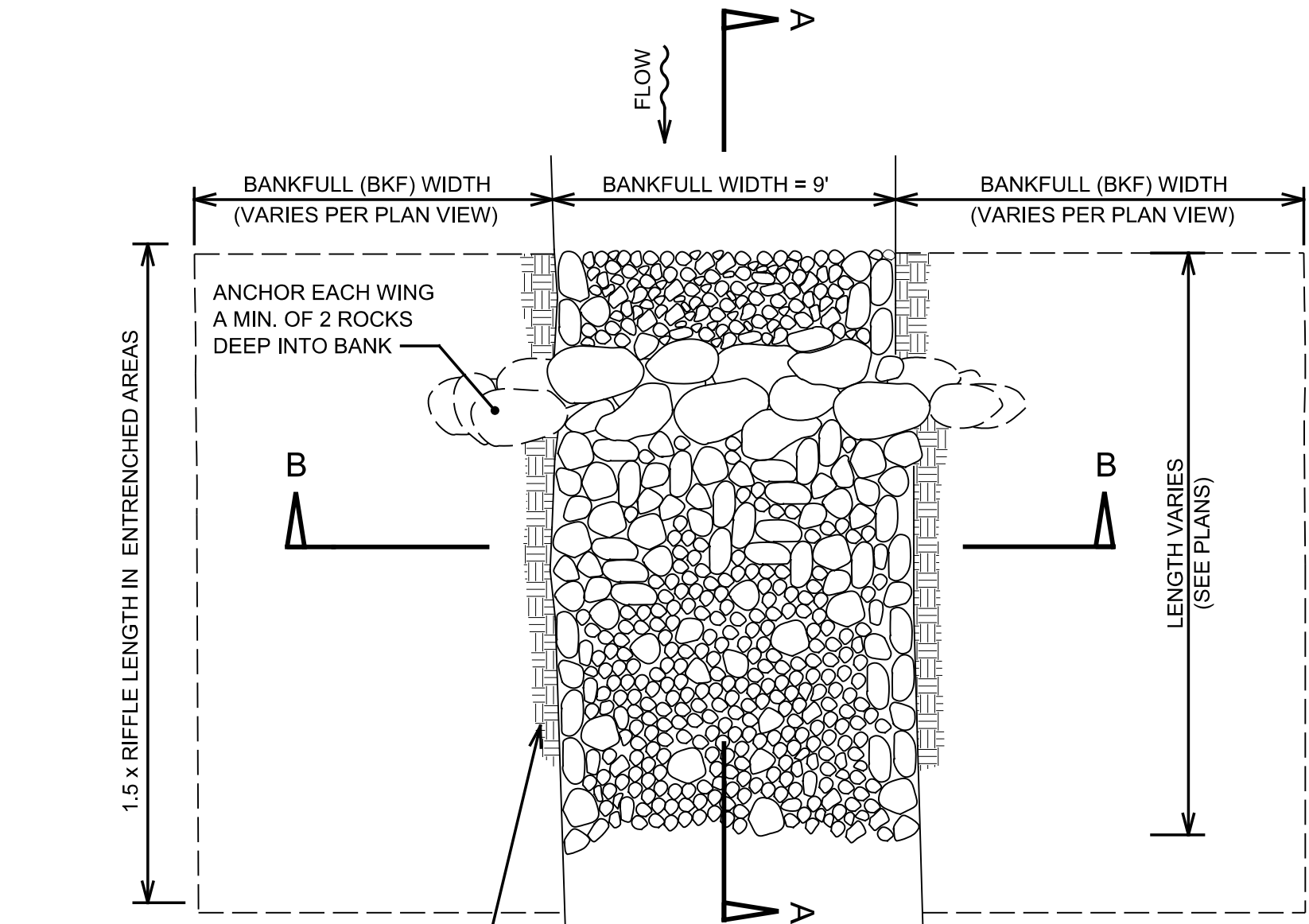
SEE SHEETS 06 THROUGH 09 FOR ADDITIONAL INFORMATION.



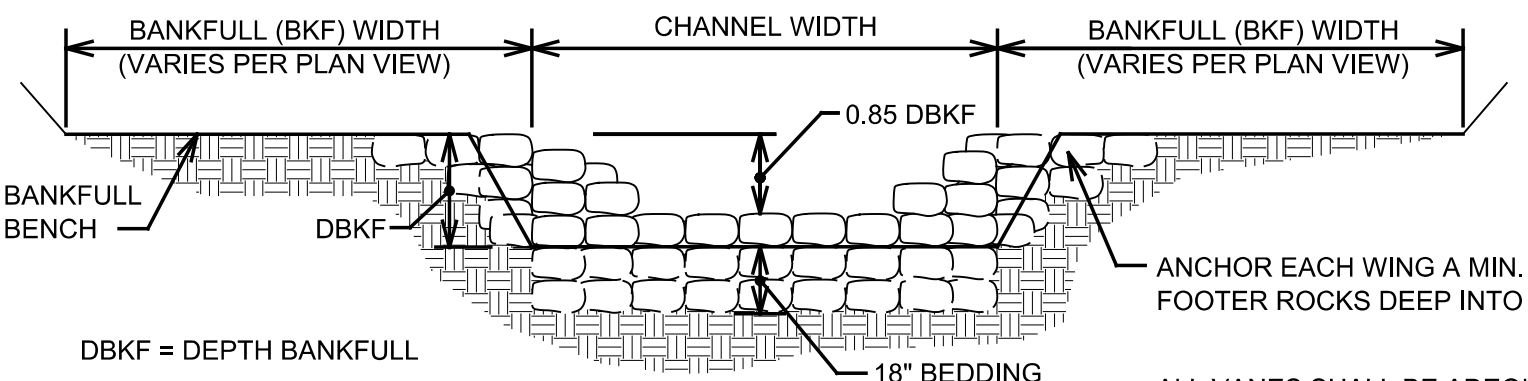
CROSS VANE DETAIL

NO SCALE

CROSS VANES PAID FOR UNDER THE PAY ITEM "DS_Instream Structure, Cross Vane - Ea".



SECTION A-A



ALL VANES SHALL BE ADEQUATELY KEYED INTO THE BANK AS TO PREVENT EROSION OF THE BANK (i.e. AT LEAST 2 FOOTER ROCKS).

RIFFLES SHALL BE KEYED IN AT THE CREST OF THE RIFFLE.

SECTION B-B

RIFFLE DETAIL

NO SCALE

RIFFLES PAID FOR UNDER THE PAY ITEM "DS_Instream Structure, Constructed Riffle - Ea".

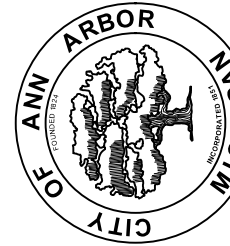
RIFFLE NOTES:

1. CONSTRUCTED RIFFLES (CR) AND NATURAL RIFFLES (NR) ARE PROPOSED FOR THIS PROJECT.
2. ONLY CONSTRUCTED RIFFLES ARE DEPICTED ON THE PLAN AND PROFILES.
3. CONSTRUCTED RIFFLES SHALL BE CONSTRUCTED BY THE CONTRACTOR PER THE DETAIL AND THE PROJECT ENGINEER.
4. NATURAL RIFFLES ARE NOT CONSTRUCTED BUT SHALL FORM NATURALLY IN THE CREEK BED.
5. ALL RIFFLES FOR THIS PROJECT, CONSTRUCTED AND NATURAL SHALL HAVE THE SAME DIMENSIONS



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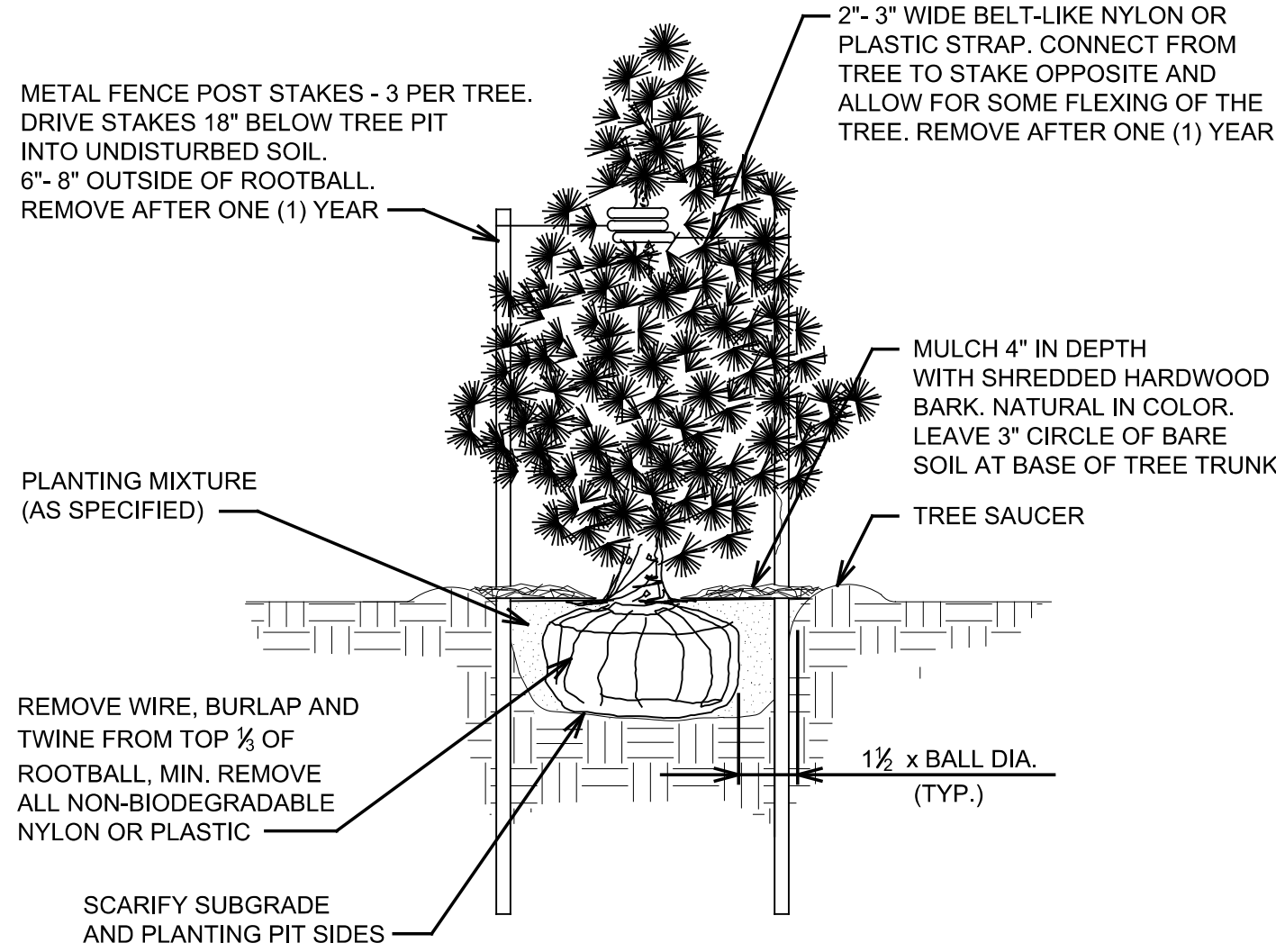
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

LIBERTY STREET CREEK RESTORATION

PROJECT DETAILS

SHEET No.

20

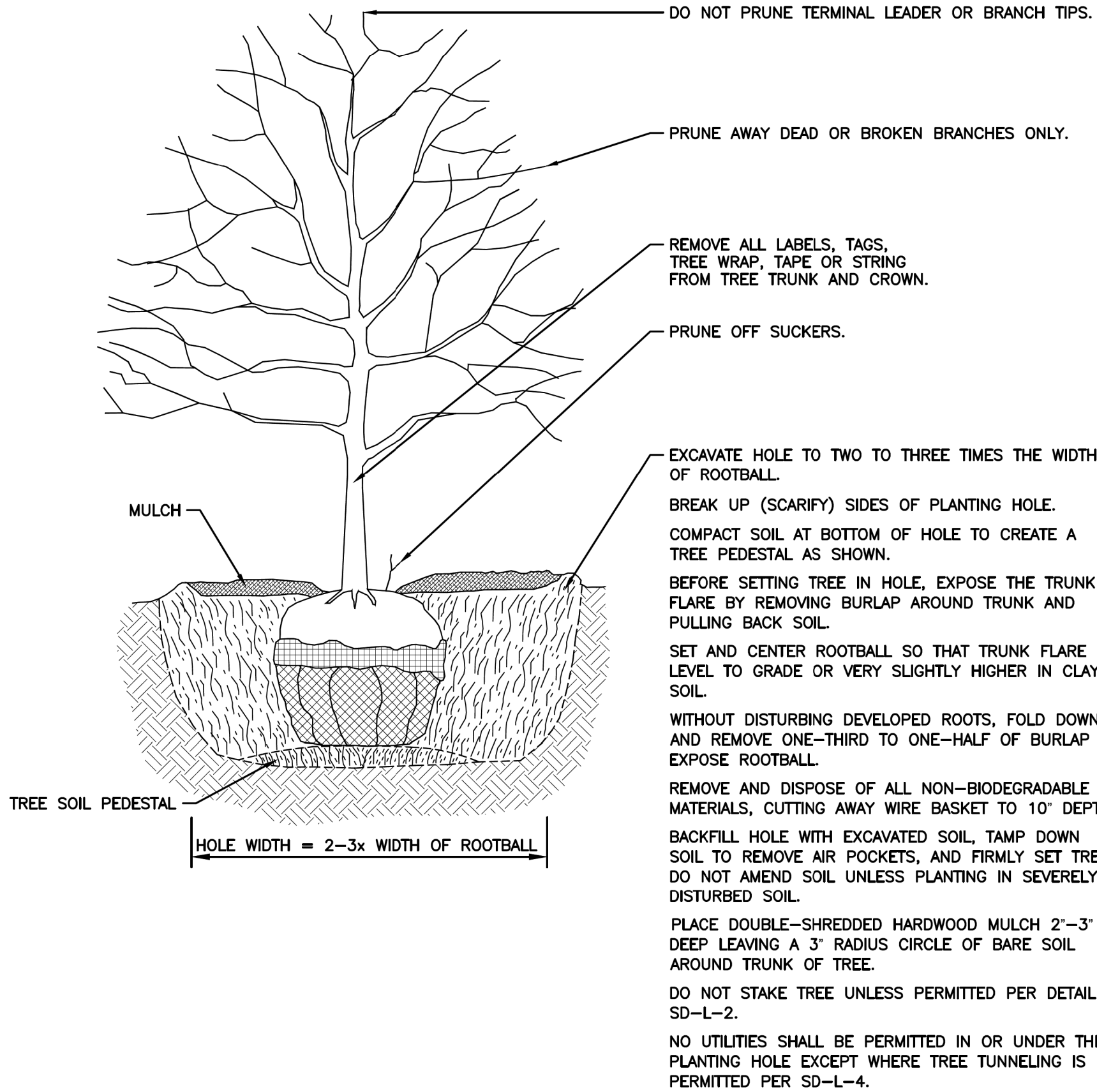


NOTES:

1. TREE SHALL BE PLANTED SLIGHTLY HIGHER THAN FINISH GRADE AS DIRECTED BY THE ENGINEER/LANDSCAPE ARCHITECT.
2. DO NOT PRUNE TERMINAL LEADER. PRUNE ONLY DEAD OR BROKEN BRANCHES.
3. WATER-IN ALL PLANT MATERIAL IMMEDIATELY AFTER INSTALLATION.
4. SEE SPECIFICATIONS FOR SPECIAL LANDSCAPING REQUIREMENTS AND MAINTENANCE AND GUARANTEE STANDARDS.

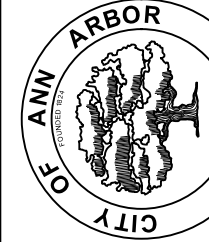
EVERGREEN TREE PLANTING

NO SCALE

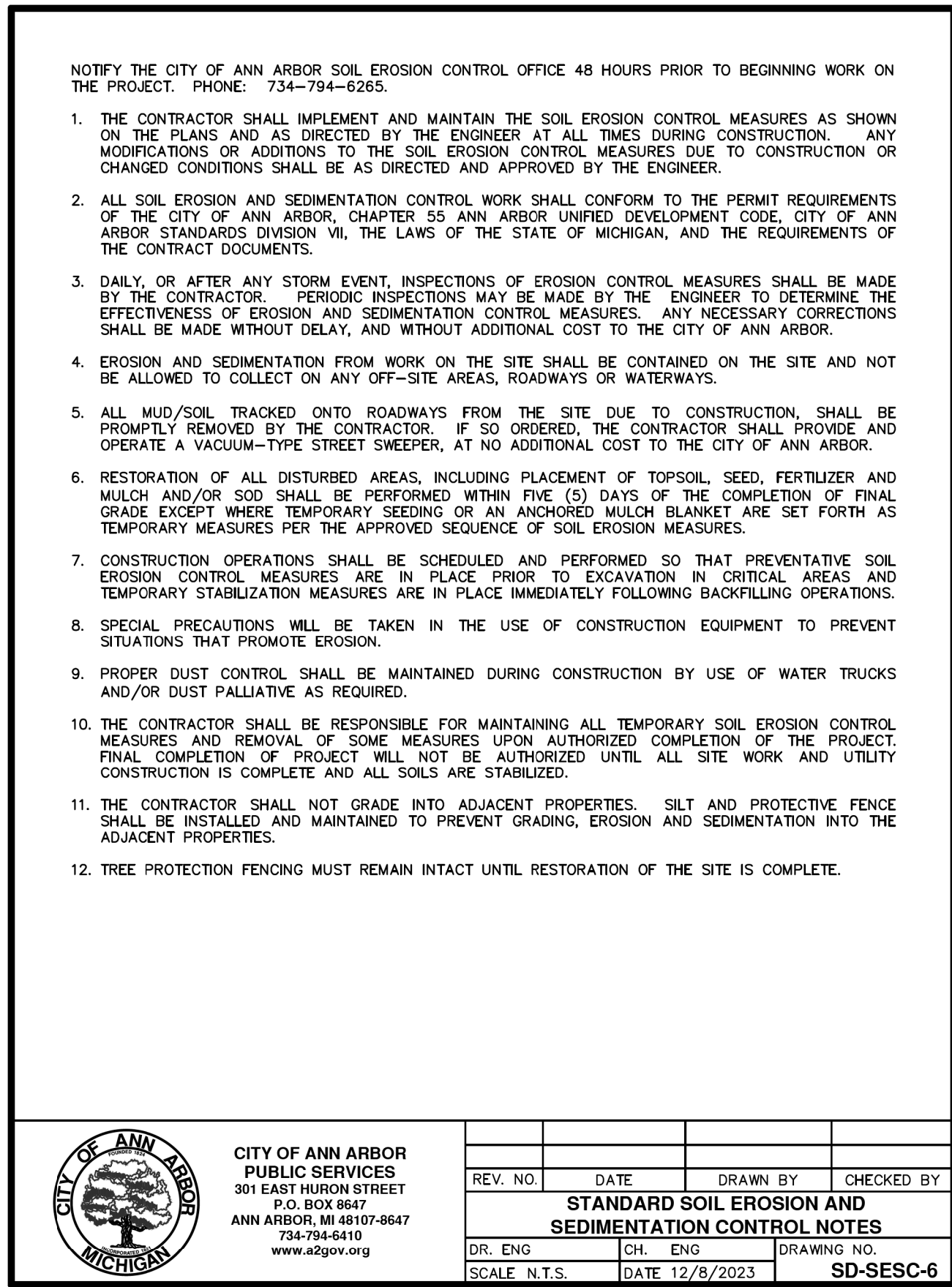
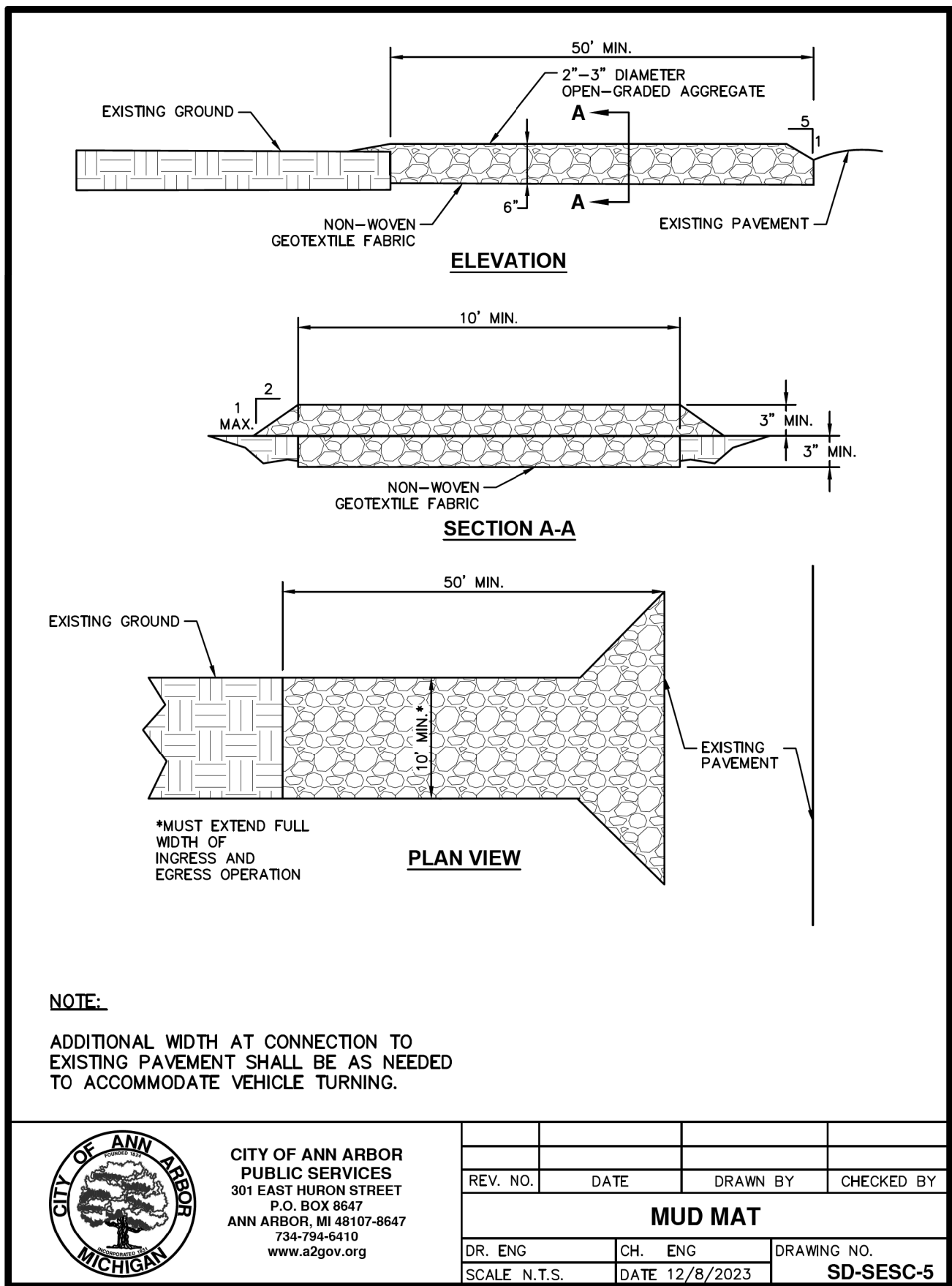
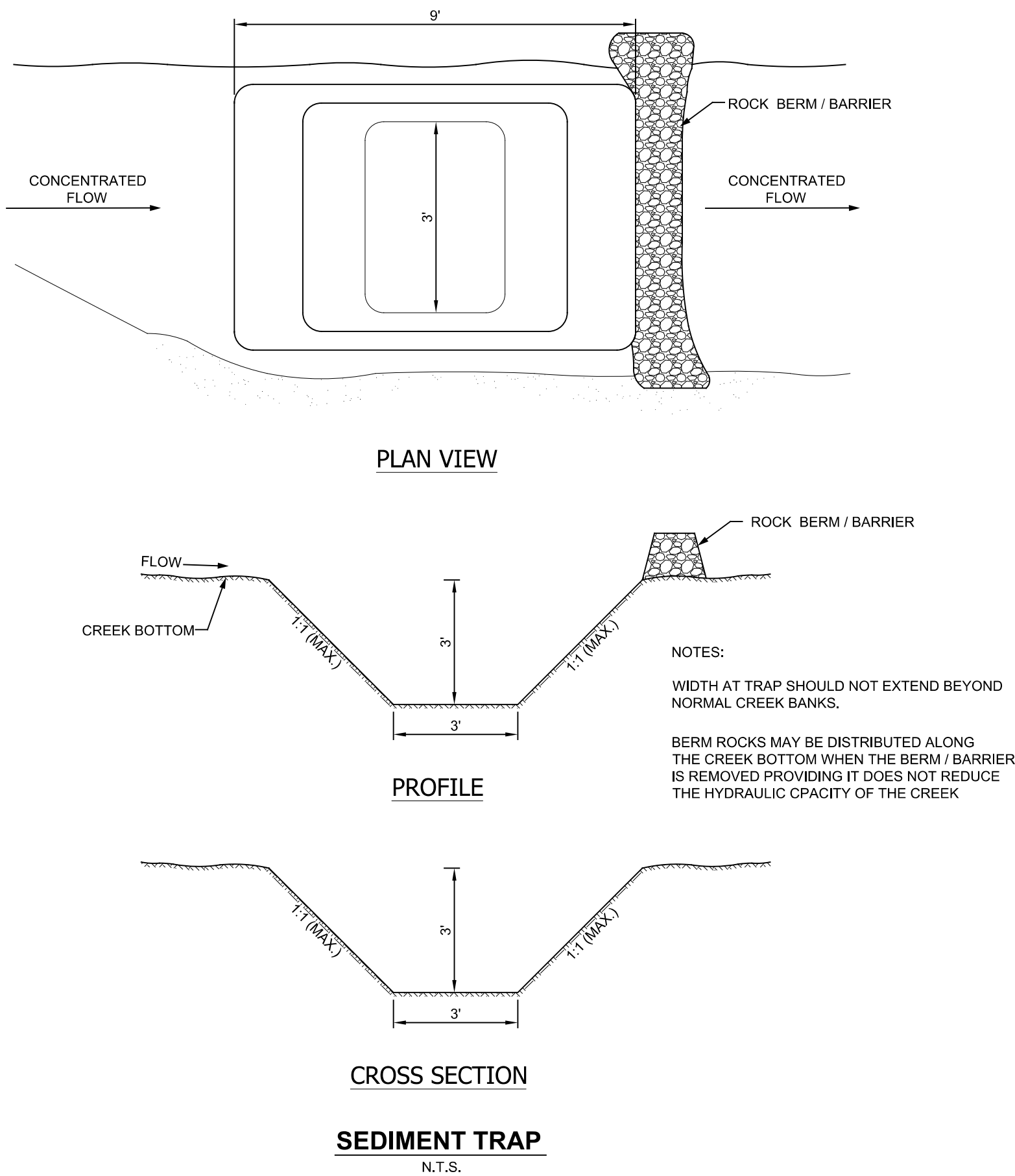
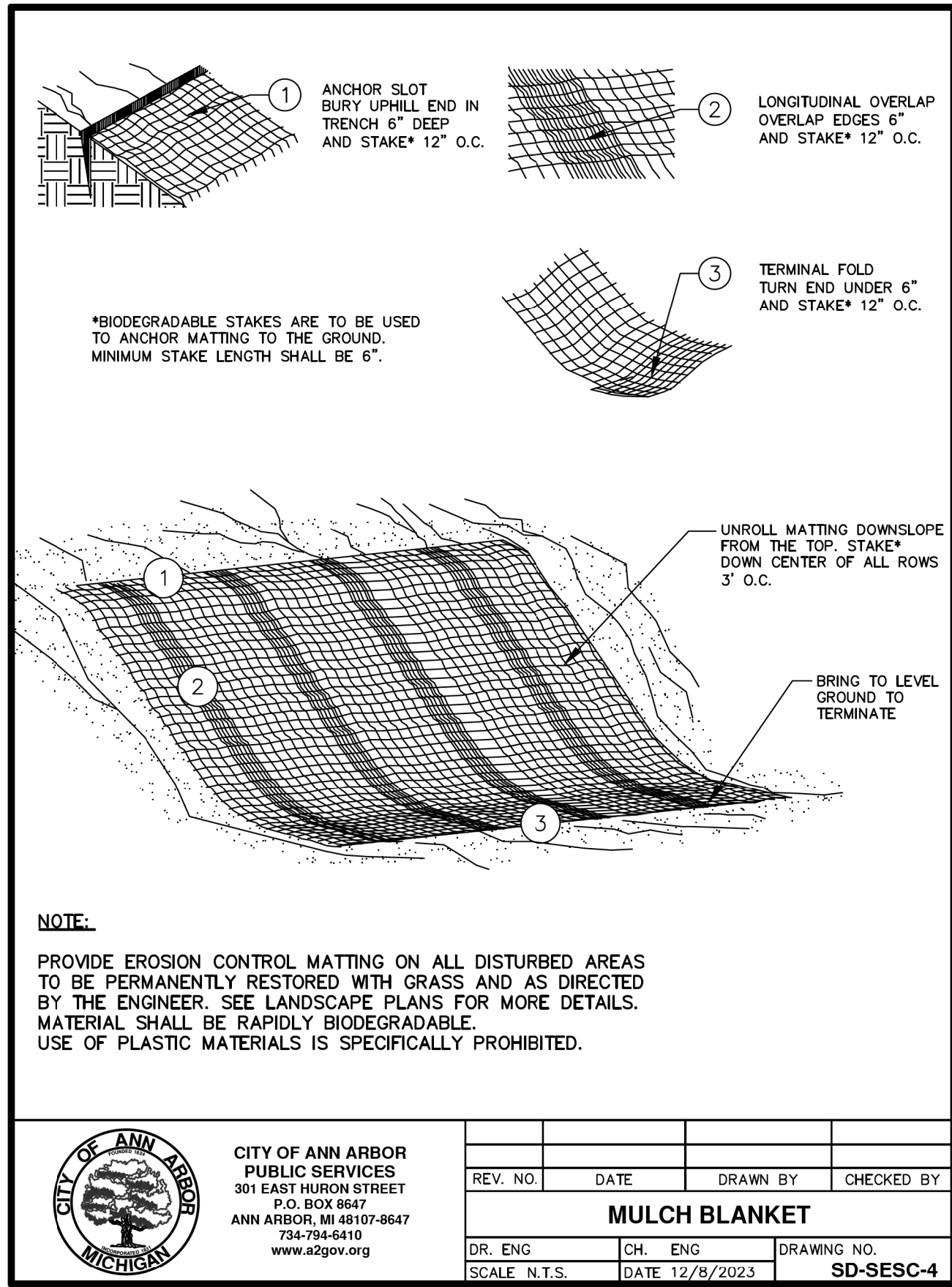
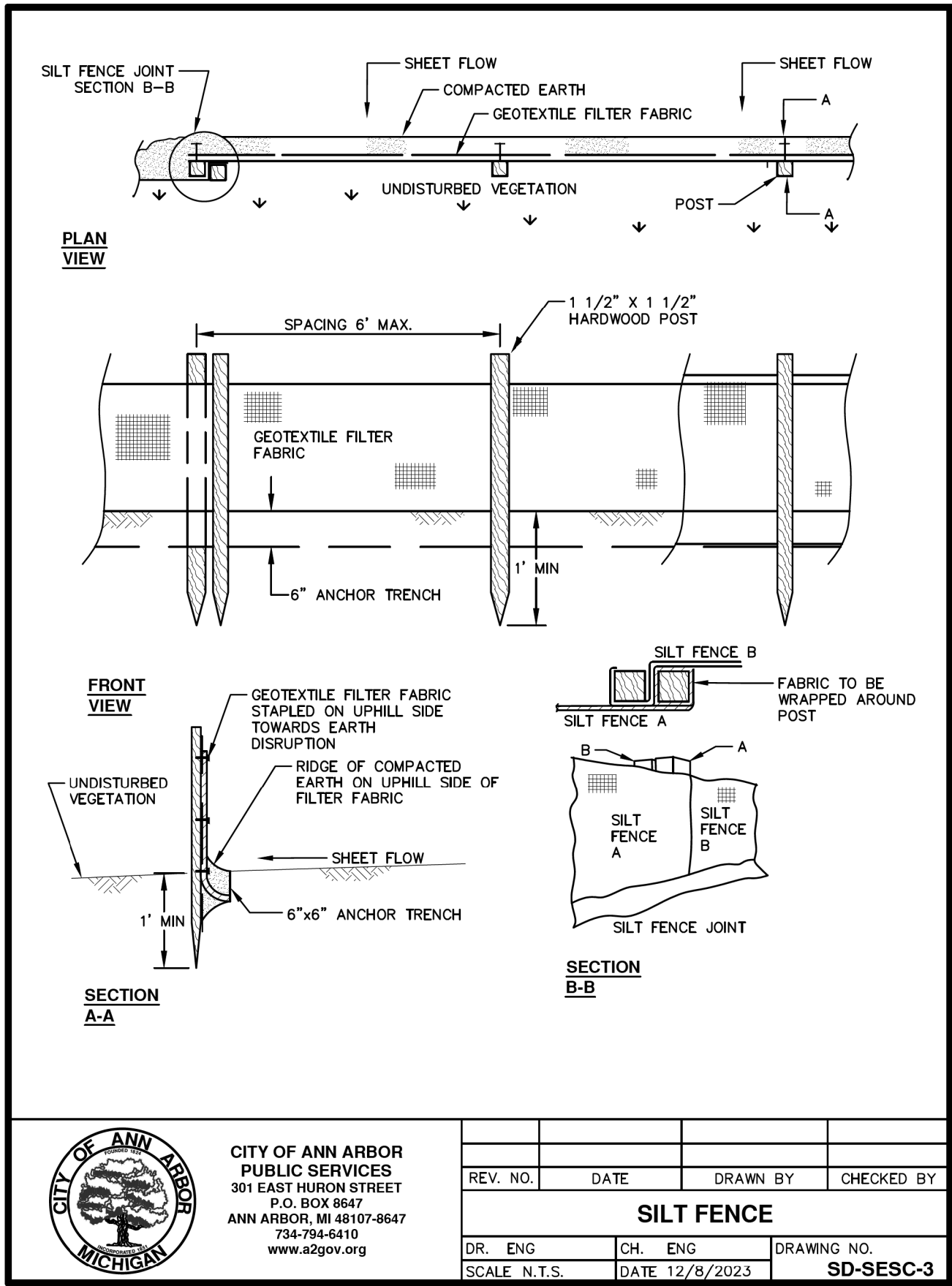
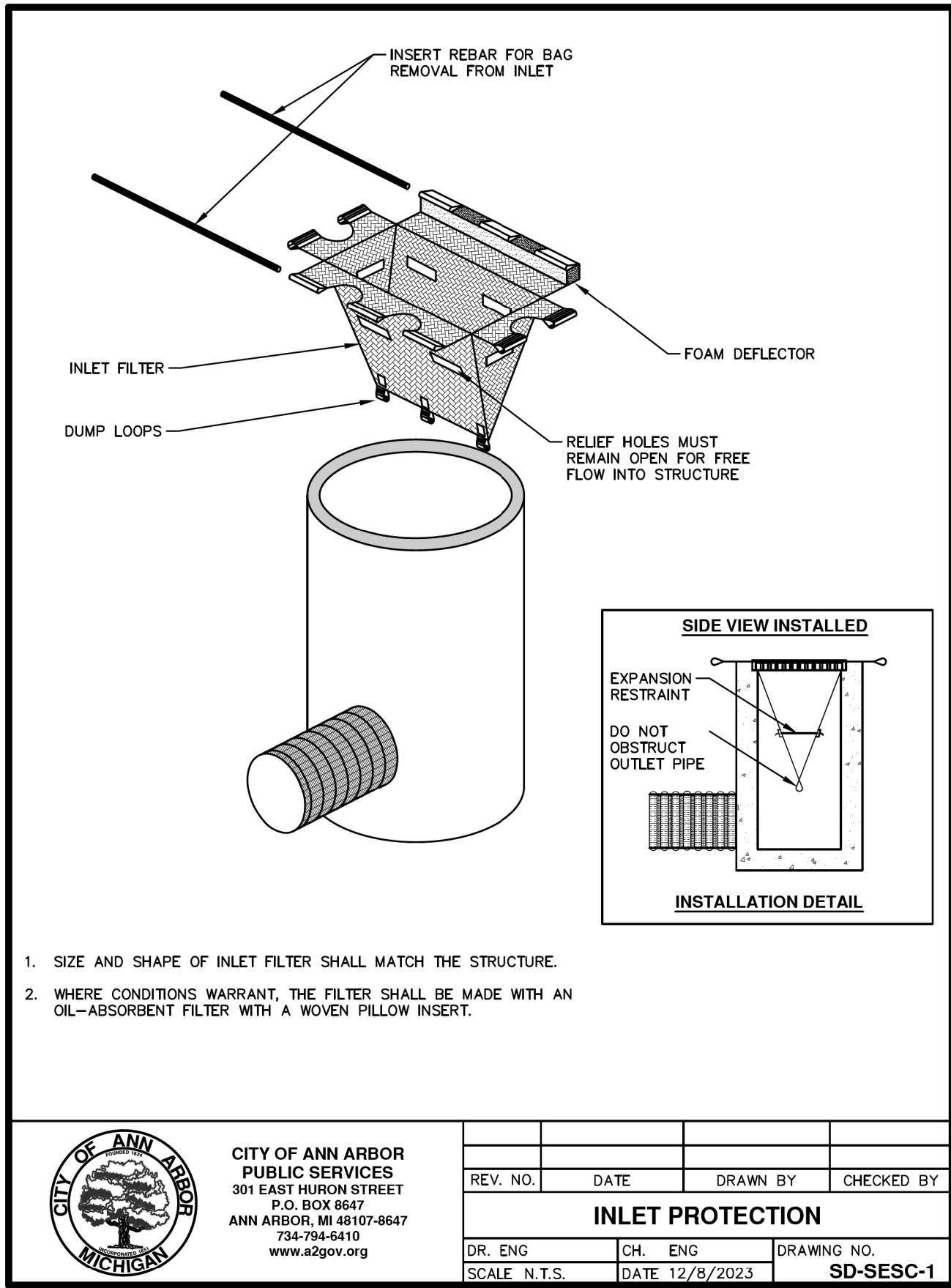


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REV. NO.	DATE	DRAWN BY	CHECKED BY
TREE PLANTING			
DR. ENG	CH. ENG	DRAWING NO.	
SCALE N.T.S.	DATE 12/8/2023	SD-L-1	



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J.A.R.	J.A.R.	J.A.R.	J.A.R.	J.A.R.	DRAWN
F.B.	F.B.	F.B.	F.B.	F.B.	CHECKED

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