

R:\21000\21197-1 lakemetroparksrevelmentdesign\civil 3d 2019\current drawings\21197-1 Title Sheet.dwg, Plotted: Apr 10, 2024 - 11:03am

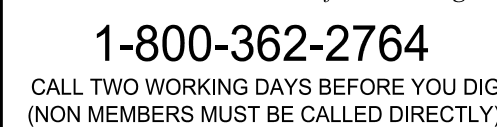


1. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND ELEVATIONS AS NOTED ON THE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY INCONSISTENCIES BETWEEN THE DRAWINGS AND THE FIELD MEASUREMENTS.
2. AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION THE CONTRACTOR SHALL CONTACT PAINESVILLE TOWNSHIP AND OUPS TO DETERMINE THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES NOT INDICATED ON THE PRINTS. IF UNCHARTED UTILITIES ARE ENCOUNTERED THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY.

REVISIONS	DATE	DESCRIPTION	BY



DATE _____



ADJACENT PROPERTY OWNERS
MARY LOUI RAJKO
29200 EUCLID AVENUE, WICKLIFFE, OHIO 44092
KB ECO SOLUTIONS, LLC
6900 GRANGER ROAD (SUITE 200), INDEPENDENCE, OHIO 44131
DATUM: 0.0 LWD = 569.2 FEET GLD 1985

DATE: 4/7/2023
DRAWN BY: DAP
CH'D BY: MPC
DWG. NAME: Title
PATH: Civil 3D
F.B. _____

KS Associates, Inc.
260 Burns Road, Suite 100
Elyria, OH 44035
P 440 365 4730
F 440 365 4790
www.ksassociates.com



773 HARDT ROAD
PAINESVILLE, OHIO 44077

SHEET
1
OF
13

JOB NO.
21197-1

REFERENCE

REFERENCES TO OWNER SHALL REFER TO LAKE METROPARKS.

REFERENCES TO THE REGULATORY AGENCIES SHALL REFER TO THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) AND THE U.S. ARMY CORPS OF ENGINEERS (USACE).

REFERENCES TO THE ENGINEER SHALL REFER TO KS ASSOCIATES INC.

SURVEYING PARAMETERS

VERTICAL DATUM IS IGLD 1985. ORDINARY HIGH WATER IS 573.4 FEET IGLD 1985.

HORIZONTAL DATUM IS OHIO STATE PLANE, NORTH ZONE NAD 83 (2011).

UNITS ARE IN U.S. SURVEY FEET

CONTRACTOR FIELD ENGINEERING SERVICES: LOCATE SITE FEATURES AND ESTABLISH GRADES, LINES, AND LEVELS BY USE OF RECOGNIZED ENGINEERING SURVEY PRACTICES.

CONTRACTOR SHALL LOCATE AND PROTECT CONTROL AND REFERENCE POINTS AND ESTABLISH NEW POINTS AS REQUIRED.

FIELD CONDITIONS MAY VARY FROM CONDITIONS SHOWN ON THE DRAWINGS.

GENERAL NOTES:

1. THESE NOTES ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE.
2. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND ELEVATIONS AS NOTED ON THE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY INCONSISTENCIES BETWEEN THE DRAWINGS AND THE FIELD MEASUREMENTS.
3. AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION THE CONTRACTOR SHALL CONTACT LAKE METROPARKS AND OUPS TO DETERMINE THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES NOT INDICATED ON THE PRINTS. IF UNCHARTED UTILITIES ARE ENCOUNTERED THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITY LINES DURING CONSTRUCTION ACTIVITIES. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
6. EROSION AND SEDIMENT CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. SITE SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR SHALL PREPARE AND SUBMIT A SITE-SPECIFIC SAFETY AND SECURITY PLAN FOR REVIEW BY THE OWNER FOR APPROVAL AS SPECIFIED ELSEWHERE.
9. THE CONTRACTOR SHALL PERSONALLY VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE NATURE OF THE WORK AND EXISTING SITE CONDITIONS.
10. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS INCLUDING ALL REGULATORY AGENCIES.

11. COORDINATE WORK TO ASSURE EFFICIENT AND ORDERLY SEQUENCES OF INSTALLATION OF CONSTRUCTION ELEMENTS, WITH PROVISIONS FOR ACCOMMODATING ITEMS INSTALLED LATER.
12. FOR PRODUCTS SPECIFIED BY ASSOCIATION OR TRADE STANDARDS, COMPLY WITH REQUIREMENTS OF THE STANDARD, EXCEPT WHEN MORE RIGID REQUIREMENTS ARE SPECIFIED OR ARE REQUIRED BY APPLICABLE CODES.
13. THE DATE OF THE STANDARD IS THAT WHICH IS IN EFFECT AS OF THE CONTRACT DATE.
14. OBTAIN COPIES OF STANDARDS WHEN REQUIRED BY SPECIFICATION. MAINTAIN A COPY AT JOBSITE DURING PROGRESS OF THE SPECIFIC WORK.
15. ALL SOLIDS DISTURBED SHALL BE PUT BACK IN PLACE EXCEPT AS SHOWN ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL PROPERLY TRANSPORT AND DISPOSE OF ANY UN-REUSABLE, EXCAVATED PROJECT MATERIALS OR CONCRETE AS A SOLID WASTE AT A LICENSED LANDFILL.
16. ALL REGULATORY PERMITS SHALL BE POSTED AT THE SITE INCLUDING OSHA REQUIRED POSTERS.
17. PROJECT FEATURES HAVE BEEN DESIGNED FOR OPERATIONAL, HYDROSTATIC, AND BACKFILL LOADS ON THE COMPLETED FEATURES. THE PROJECT FEATURES HAVE NOT BEEN DESIGNED TO RESIST THESE LOADS WHILE ONLY PARTIALLY CONSTRUCTED. DURING CONSTRUCTION, THE PROJECT FEATURES SHALL BE PROTECTED FROM ALL CONSTRUCTION LOADS BY BRACING AND BALANCING UNTIL ALL PROJECT FEATURES ARE IN PLACE.

WATER LEVELS

LAKE ERIE WATER LEVELS VARY CONSIDERABLY DUE TO LONG TERM AND SEASONAL DRAINAGE VARIATIONS IN THE GREAT LAKES BASIN AND SHORT-TERM STORM EVENTS.

THE WATER LEVELS SHOWN ON THE DRAWINGS ARE FOR VERTICAL REFERENCE ONLY AND ARE NOT INTENDED TO BE PREDICTIVE OF WATER LEVELS AT THE TIME OF CONSTRUCTION. THE DRAWINGS GENERALLY REFERENCE ORDINARY HIGH WATER (OHW) AT AN ELEVATION OF 573.4 FEET IGLD 1985.

PLEASE NOTE: RECENT LAKE ERIE WATER LEVELS HAVE BEEN CONSIDERABLY HIGHER THAN LONG TERM AVERAGES AND HAVE FREQUENTLY EXCEEDED THE ORDINARY HIGH-WATER MARK.

WATER LEVELS ARE TYPICALLY LOWEST IN DECEMBER-JANUARY (JUST BEFORE LAKE ICE FORMS AND SLOWS EVAPORATION) AND HIGHEST IN JUNE-AUGUST AND FLUCTUATIONS ARE POSSIBLE FROM THE PREDICTED WATER LEVELS. THE CONTRACTOR SHOULD BE AWARE OF THE VARIABILITY OF LAKE ERIE WATER LEVELS AND PLAN FOR POTENTIAL ADVERSE EFFECTS TO CONSTRUCTION OPERATIONS. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR CONSTRUCTION OPERATIONS IMPACTED BY VARIABILITY OF WATER LEVELS.

ENVIRONMENTAL RESTRICTIONS

1. ANY SAND AND GRAVEL THAT WILL BE WITHIN THE FOOTPRINT OF THE PROPOSED REVETMENT AT THE PROJECT LOCATION MUST BE SIDECAST DOWNDRIFT BEFORE THE REVETMENT IS CONSTRUCTED.
2. THE MECHANICAL EQUIPMENT USED TO EXECUTE THE WORK SHALL BE OPERATED IN SUCH A WAY AS TO MINIMIZE TURBIDITY THAT COULD DEGRADE WATER QUALITY AND ADVERSELY AFFECT AQUATIC PLANT AND ANIMAL LIFE.

3. ALL CONSTRUCTION FILL MATERIAL SHALL MEET THE REQUIREMENTS AS SPECIFIED ELSEWHERE.
4. NO TREES GREATER THAN 3" DIAMETER BREAST HEIGHT (DBH) MAY BE CLEARED BETWEEN APRIL 1ST AND SEPTEMBER 30TH WITHOUT PRIOR AUTHORIZATION FROM THE OWNER.

GENERAL NOTES

LAKEFRONT TRAIL
PHASE II REVETMENT

775 HARDY ROAD
PAINESVILLE, OHIO 44077

KS Associates, Inc.
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Elyria, OH 44035
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GRANT REQUIREMENTS

COVENANT B OF THE JANUARY 27, 1972, EQUAL EMPLOYMENT OPPORTUNITY EXECUTIVE ORDER OF THE GOVERNOR OF OHIO

1. THE CONTRACTOR WILL NOT DISCRIMINATE AGAINST ANY EMPLOYEE OR APPLICANT FOR EMPLOYMENT BECAUSE OF RACE, COLOR, RELIGION, NATIONAL ORIGIN, ANCESTRY, OR SEX. THE CONTRACTOR WILL TAKE AFFIRMATIVE ACTION TO ENSURE THAT APPLICANTS ARE EMPLOYED, AND THAT EMPLOYEES ARE TREATED DURING EMPLOYMENT WITHOUT REGARD TO THEIR RACE COLOR, RELIGION, NATIONAL ORIGIN, ANCESTRY, OR SEX. SUCH ACTION SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING: EMPLOYMENT, UPGRADING, DEMOTION, OR TRANSFER; RECRUITMENT OR RECRUITMENT ADVERTISING; LAY-OFF OR TERMINATION; RATES OF PAY OR OTHER FORMS OF COMPENSATION; AND SELECTION FOR TRAINING, INCLUDING APPRENTICESHIPS. THE CONTRACTOR AGREES TO POST IN CONSPICUOUS PLACES, AVAILABLE TO EMPLOYEES AND APPLICANTS FOR EMPLOYMENT, NOTICES TO BE PROVIDED, SETTING FORTH THE PROVISIONS OF THIS NONDISCRIMINATION CLAUSE.
2. THE CONTRACTOR WILL IN ALL SOLICITATIONS OR ADVERTISEMENTS FOR EMPLOYEES PLACED BY OR ON BEHALF OF THE CONTRACTOR, STATE THAT ALL QUALIFIED APPLICANTS WILL RECEIVE CONSIDERATION FOR EMPLOYMENT WITHOUT REGARD TO RACE, COLOR, RELIGION, NATIONAL ORIGIN, ANCESTRY, OR SEX.
3. THE CONTRACTOR WILL SEND TO EACH LABOR UNION OR REPRESENTATIVE OF WORKERS WITH WHICH HE HAS A COLLECTIVE BARGAINING AGREEMENT OR OTHER CONTRACT OR UNDERSTANDING, A NOTICE TO BE PROVIDED BY THE STATE ADMINISTERING AGENCY, ADVISING THE SAID LABOR UNION OR WORKERS' REPRESENTATIVES OF THE CONTRACTOR'S COMMITMENTS UNDER THIS COVENANT AND SHALL POST COPIES OF THE NOTICE IN CONSPICUOUS PLACES AVAILABLE TO EMPLOYEES AND APPLICANTS FOR EMPLOYMENT.
4. THE CONTRACTOR WILL COMPLY WITH ALL PROVISIONS OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES, DIVISION OF PUBLIC WORKS (DPW) REGULATION ON EQUAL EMPLOYMENT OPPORTUNITY (EEO) AND WITH THE IMPLEMENTING RULES, REGULATIONS, AND APPLICABLE ORDERS OF THE STATE EQUAL EMPLOYMENT OPPORTUNITY COORDINATOR.
5. THE CONTRACTOR AGREES HE WILL FULLY COOPERATE WITH THE STATE ADMINISTERING AGENCY, THE STATE EQUAL EMPLOYMENT OPPORTUNITY COORDINATOR, AND WITH ANY OTHER OFFICIAL OR AGENCY OF THE STATE OR FEDERAL GOVERNMENT THAT SEEKS TO ELIMINATE UNLAWFUL EMPLOYMENT DISCRIMINATION, AND WITH ALL OTHER STATE AND FEDERAL EFFORTS TO ASSURE EQUAL EMPLOYMENT PRACTICES UNDER THIS CONTRACT. SAID CONTRACTOR SHALL COMPLY PROMPTLY WITH ALL REQUESTS AND DIRECTIONS FROM THE STATE ADMINISTERING AGENCY, THE STATE EQUAL EMPLOYMENT OPPORTUNITY COORDINATOR, AND ANY OF THE STATE OF OHIO'S OFFICIALS AND AGENCIES IN THIS REGARD, BOTH BEFORE AND DURING CONSTRUCTION.
6. FULL COOPERATION AS EXPRESSED IN CLAUSE 5 ABOVE, SHALL INCLUDE, BUT NOT BE LISTED TO, BEING A WITNESS AND PERMITTING EMPLOYEES TO BE WITNESSES AND COMPLAINANTS IN ANY PROCEEDING INVOLVING QUESTIONS OR UNLAWFUL EMPLOYMENT PRACTICES, FURNISHING ALL INFORMATION AND REPORTS REQUIRED BY THE DPW REGULATION ON EEO AND BY THE RULES, REGULATIONS, AND ORDERS OF THE STATE EQUAL EMPLOYMENT OPPORTUNITY COORDINATOR PURSUANT

THERETO, AND PERMITTING ACCESS TO HIS BOOKS, RECORDS, AND ACCOUNTS BY THE STATE ADMINISTERING AGENCY AND THE STATE EQUAL EMPLOYMENT OPPORTUNITY COORDINATOR FOR PURPOSES OF INVESTIGATION TO ASCERTAIN COMPLIANCE WITH SUCH RULES, REGULATIONS, AND ORDERS.

7. IN THE EVENT OF THE CONTRACTOR'S NONCOMPLIANCE WITH THE NONDISCRIMINATION CLAUSES OF THIS CONTRACT OR WITH ANY OF THE SAID RULES, REGULATIONS, OR ORDERS, THIS CONTRACT MAY BE CANCELED, TERMINATED, OR SUSPENDED IN WHOLE OR IN PART AND THE CONTRACTOR MAY BE DECLARED INELIGIBLE FOR FURTHER STATE CONTRACTS OR STATE ASSISTED CONSTRUCTION CONTRACTS IN ACCORDANCE WITH PROCEDURES AUTHORIZED IN THE DPW REGULATIONS ON EEO, AND SUCH OTHER SANCTIONS MAY BE INSTITUTED AND REMEDIES INVOKED AS PROVIDED IN SAID REGULATION OR BY RULE, REGULATION, OR ORDER OF THE STATE EQUAL EMPLOYMENT OPPORTUNITY COORDINATOR, OR AS OTHERWISE PROVIDED BY LAW.

IN THE EVENT THIS CONTRACT IS TERMINATED FOR A MATERIAL BREACH OF SAID REGULATIONS, THE CONTRACTOR SHALL BECOME LIABLE FOR ANY AND ALL DAMAGES AS A RESULT OF SAID BREACH.

8. THE CONTRACTOR WILL INCLUDE THE PORTION OF THE SENTENCE IMMEDIATELY PRECEDING PARAGRAPH 1 AND THE PROVISIONS OF PARAGRAPHS 1 THROUGH 8 IN EVERY SUBCONTRACT OR PURCHASE ORDER UNLESS EXEMPTED BY RULES, REGULATIONS, OR ORDERS OF THE STATE EQUAL EMPLOYMENT OPPORTUNITY COORDINATOR ISSUED PURSUANT TO SECTION 204 OF THE DPW REGULATION ON EEO, SO THAT SUCH PROVISIONS WILL BE BINDING UPON EACH SUBCONTRACTOR OR VENDOR. THE CONTRACTOR WILL TAKE SUCH ACTION WITH RESPECT TO ANY SUBCONTRACT OR PURCHASE ORDER AS THE STATE ADMINISTERING AGENCY MAY DIRECT AS A MEANS OF ENFORCING SUCH PROVISIONS, INCLUDING SANCTIONS FOR NONCOMPLIANCE: PROVIDED, HOWEVER, THAT IN THE EVENT THE CONTRACTOR BECOMES INVOLVED IN, OR IS THREATENED WITH LITIGATION WITH A SUBCONTRACTOR, VENDOR OR OTHER PARTY AS A RESULT OF SUCH DIRECTION BY THE STATE ADMINISTERING AGENCY, THE CONTRACTOR MAY REQUEST THE STATE OF OHIO TO ENTER INTO SUCH LITIGATION TO PROTECT THE INTERESTS OF THE STATE.

NOTICE: THE CONTRACTOR MUST COMPLY WITH THE PROVISIONS OF THE GOVERNOR'S EXECUTIVE ORDER 84-9, DATED FEBRUARY 15, 1984, WHICH REQUIRES THE ESTABLISHMENT OF UNIFORM STATEWIDE GOALS FOR THE UTILIZATION OF WOMEN ON STATE AND STATE-ASSISTED CONSTRUCTION CONTRACTS.

CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

THE CONTRACTOR AGREES TO COMPLY WITH FEDERAL CLEAN AIR AND WATER STANDARDS DURING THE PERFORMANCE OF THIS CONTRACT AND SPECIFICALLY AGREES TO DO THE FOLLOWING:

- A. THE TERM "FACILITY" MEANS (A) ANY BUILDING, PLANT, INSTALLATION, STRUCTURE, MINE, VESSEL OR OTHER FLOATING CRAFT, LOCATION OR SITE OF OPERATIONS (B) OWNED, LEASED OR SUPERVISED (C) BY THE CONTRACTOR AND SUBCONTRACTOR (D) FOR THE CONSTRUCTION, SUPPLY AND SERVICE CONTRACTS ENTERED INTO BY THE CONTRACTOR;
- B. THAT ANY FACILITY TO BE UTILIZED IN THE ACCOMPLISHMENT OF THIS CONTRACT BECOMES LISTED ON THE EPA LIST, THIS CONTRACT MAY BE CANCELED, TERMINATED OR SUSPENDED IN WHOLE OR IN PART;

- C. THAT IN THE EVENT A FACILITY UTILIZED IN THE ACCOMPLISHMENT OF THIS CONTRACT BECOMES LISTED ON THE EPA LIST, THIS CONTRACT MAY BE CANCELED, TERMINATED OR SUSPENDED IN WHOLE OR IN PART;
- D. THAT IT WILL COMPLY WITH ALL THE REQUIREMENTS OF SECTION 114 OF THE AIR ACT AND SECTION 308 OF THE WATER ACT RELATING TO INSPECTION, MONITORING, ENTRY, REPORTS, AND INFORMATION, AS WELL AS ALL OTHER REQUIREMENTS SPECIFIED IN SECTION 114 AND SECTION 308, RESPECTIVELY, AND ALL REGULATIONS AND GUIDELINES ISSUED THEREUNDER;
- E. THAT IT WILL PROMPTLY NOTIFY THE GOVERNMENT OF THE RECEIPT OF ANY NOTICE FROM THE DIRECTOR, OFFICE OF FEDERAL ACTIVITIES, ENVIRONMENTAL PROTECTION AGENCY, INDICATING THAT ANY FACILITY UTILIZED OR TO BE UTILIZED IN THE ACCOMPLISHMENT OF THIS CONTRACT IS UNDER CONSIDERATION FOR LISTING ON THE EPA LIST OF VIOLATING FACILITIES;
- F. THAT IT WILL INCLUDE THE PROVISIONS OF PARAGRAPHS "A" THROUGH "G" IN EVERY SUBCONTRACT OR PURCHASE ORDER ENTERED INTO FOR THE PURPOSE OF ACCOMPLISHING THIS CONTRACT, UNLESS OTHERWISE EXEMPTED PURSUANT TO THE EPA REGULATIONS IMPLEMENTING THE AIR OR WATER ACT (40 CFR, PART 15.5), SO THAT SUCH PROVISIONS WILL BE BINDING UPON EACH SUBCONTRACTOR OR VENDOR;
- G. THAT IN THE EVENT THAT THE CONTRACTOR OR THE SUBCONTRACTORS FOR THE CONSTRUCTION, SUPPLY AND SERVICE CONTRACTS ENTERED INTO FOR THE PURPOSE OF ACCOMPLISHING THIS CONTRACT WERE EXEMPTED FROM COMPLYING WITH THE ABOVE REQUIREMENTS UNDER THE PROVISIONS OF 40 CFR, PART 15.5(A), THE EXEMPTION SHALL BE NULLIFIED SHOULD THE FACILITY GIVE RISE TO A CRIMINAL CONVICTION (SEE 40 CFR, PART 15.20) DURING THE ACCOMPLISHMENT OF THIS CONTRACT. FURTHERMORE, WITH THE NULLIFICATION OF THE EXEMPTION, THE ABOVE REQUIREMENTS SHALL BE EFFECTIVE. THE CONTRACTOR SHALL NOTIFY THE GOVERNMENT, AS SOON AS THE CONTRACTOR'S OR THE SUBCONTRACTORS' FACILITY IS LISTED FOR HAVING GIVEN RISE TO A CRIMINAL CONVICTION NOTED IN 40 CFR, PART 15.20.

GENERAL NOTES

LAKEFRONT TRAIL
PHASE II REVETMENT

775 HARDY ROAD
PAINESVILLE, OHIO 44077

SHEET
3
OF
13

JOB NO.
21197-1

DATE: 4/7/2023
DRAWN BY: DAP
CHK'D BY: MFC
DWG. NAME: Title
PATH: Civil_3D
F.B.



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P 440 365 4730
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DATUM: 0.0 LWD = 569.2 FEET IGLD 1985

SURVEYOR'S NOTES

- HORIZONTAL DATUM IS OHIO STATE PLANE, NORTH ZONE NAD83(2011) GRID NORTH BASED ON GPS OBSERVATIONS PERFORMED ON (DECEMBER 20, 2022).
- VERTICAL DATUM IS IGLD 1985.
- PERTINENT RECORDS USED ARE AS SHOWN HEREON.
- THIS MAP AND THE SURVEY ON WHICH IT IS BASED HAVE BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND ARE NOT INTENDED TO REFLECT ALL EASEMENTS, ENCUMBRANCES, OR OTHER CIRCUMSTANCES AFFECTING THE TITLE TO THE PROPERTY SHOWN HEREON.
- THE UTILITIES, SEWERS AND THEIR LOCATIONS SHOWN HEREON ARE DERIVED FROM A COMBINATION OF FIELD SURVEYING OF VISIBLE UTILITY STRUCTURES, AVAILABLE PLANS AND A LEVEL C SUBSURFACE UTILITY INVESTIGATION. ACTUAL LOCATION OF UTILITIES MAY VARY FROM THE DEPICTED LOCATIONS. OTHER UNKNOWN UTILITIES MAY EXIST AND NECESSARY PRECAUTIONS SHOULD BE FOLLOWED WHEN EXCAVATING. ADDITIONAL INVESTIGATION SUCH AS VIDEOTAPING PIPE RUNS, NON-DESTRUCTIVE EXPOSURE OF UTILITIES MAY DETERMINE THE UNKNOWN UTILITY INFORMATION. CONTACT OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 1-800-362-2764 PRIOR TO EXCAVATION.

UTILITY REFERENCE

FIELD LOCATED BY KS ASSOCIATES FROM UTILITY MARKINGS.

ABBREVIATIONS

BM BENCHMARK
C.L.F CHAIN LINK FENCE
H HIGH
PVC POLYVINYL CHLORIDE
VERT VERTICAL

LEGEND

- △ KS CONTROL POINT
⊙ BENCH MARK
⊙ IRON PIN
⊕ POWER POLE
⋈ GUY ANCHOR
⊙ TREE
⊙ MONITOR WELL
⊙ GAS WELL
- PROPERTY LINE
—x— FENCELINE
— TREELINE
— EDGE OF WATER
— DITCHLINE
— OHE — OVERHEAD ELECTRIC
— — OVERHEAD STRAIN
— 600 — MAJOR CONTOUR
— 601 — MINOR CONTOUR

LINETYPE LEGEND

BENCH MARK

BM 600:
MAG NAIL SET IN THE SOUTH FACE OF POWER POLE LOCATED AT NORTHEAST CORNER OF RESIDENCE #775 HARDY ROAD.

ELEV=627.80

CONTROL POINTS

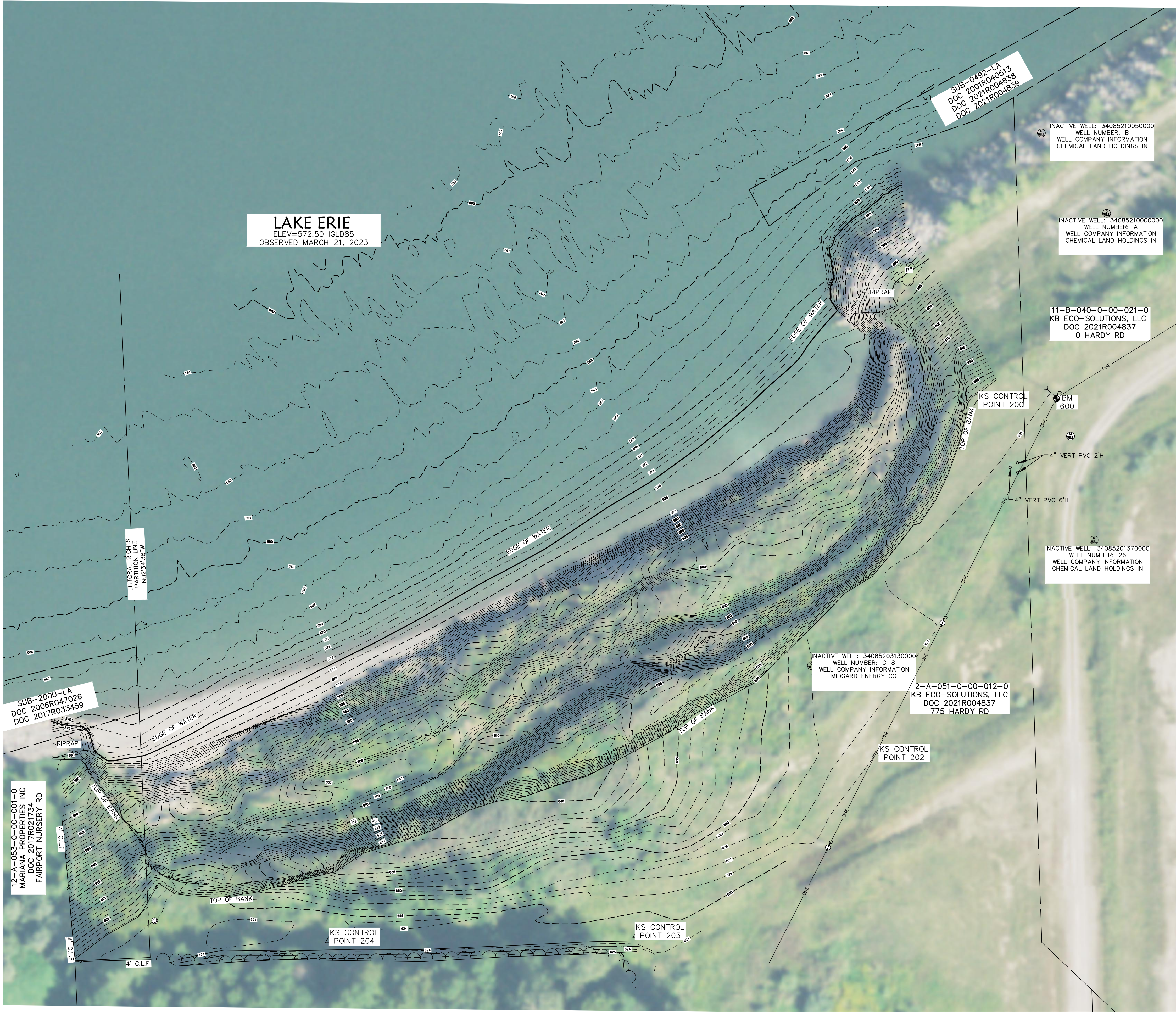
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201	766246.76	2312421.00	625.72	CNPT IPINS
202	765807.75	2311924.78	627.04	CNPT IPINS
203	765663.94	2311734.06	625.16	CNPT IPINS
204	765659.94	2311489.33	624.34	CNPT IPINS

DATE OF SURVEY: DECEMBER 20, 2022 & MARCH 21 & 27, 2023

EXISTING SITE PLAN



SCALE IN FEET
SCALE 1"=40'



DATE	DESCRIPTION	BY

REVISIONS

DATE:	04-03-2023
DRAWN BY:	MAC
CHK'D BY:	JAB
DWG. NAME:	21197-1-REVISED.dwg
PATH:	C:\1047_1048
F.B.	1047_1048

KS Associates, Inc.
260 Burns Road, Suite 100
Elyria, OH 44035
P 440 365 4730
F 440 365 4790
www.ksassociates.com



EXISTING SITE PLAN
LAKEFRONT TRAIL
PHASE II REVETMENT

775 HARDY ROAD
PAINESVILLE, OHIO 44077

SHEET
4

OF

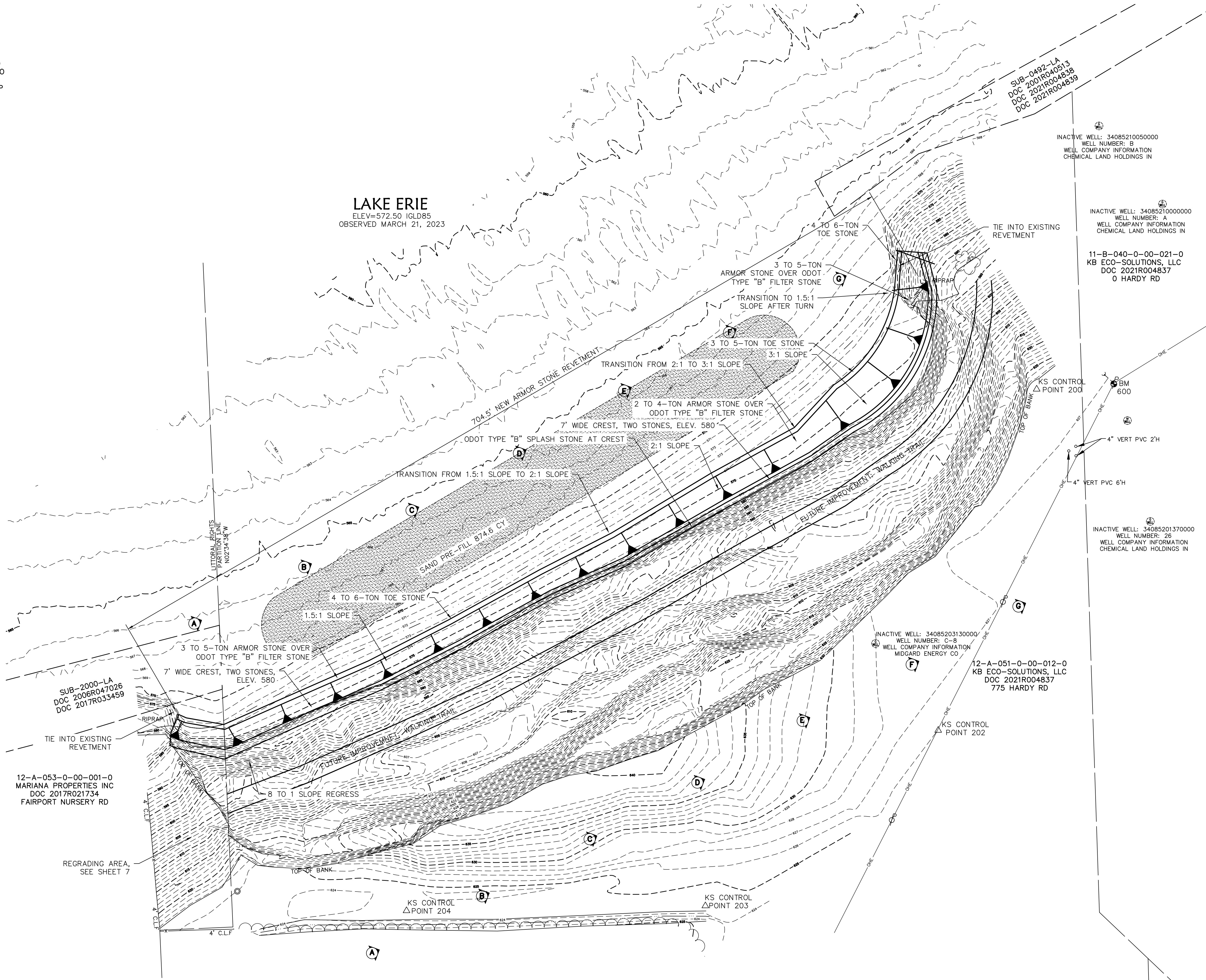
13

JOB NO.
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NOTES

1. VERTICAL DATUM IS NAVD88.
2. ALL SAND AND GRAVEL IN THE FOOTPRINT OF THE PROPOSED STRUCTURE SHALL BE SIDECAST LAKEWARD
3. SAND PRE-FILL LOCATION IS APPROXIMATE, CLOSER TO SHORE IS ACCEPTABLE
6. SAND PREFILL MATERIAL IS TO BE REMOVED FROM TOP OF BLUFF AND PLACED LAKEWARD OF REVETMENT.
7. PHOTOGRAPHS ARE TO BE TAKEN OF SAND PREFILL ACTIVITIES.
8. SAND PRE-FILL SHALL BE FROM THE REGRADING ACTIVITY SHOWN ON SHEET 7.

LAKE ERIE
ELEV=572.50 IGLD85
OBSERVED MARCH 21, 2023



PROPOSED SITE PLAN



SCALE IN FEET
SCALE 1"=40'

DATE	DESCRIPTION	BY

REVISIONS				
DATE:	04-03-2023	DRAWN BY:	MAC	
CH'D BY:	JAB	DWG. NAME:	2023-04-03-2023	
PATH:	CIVIL 3D 2019	F.B.	1047_1048	

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PROPOSED SITE PLAN
LAKEFRONT TRAIL
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SHEET
5
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1. VERTICAL DATUM IS IGLD85.
2. SHOWN GRADING IS THE PROPOSED GRADE LINES
3. AND SAND PREFILL AREA NOT SHOWN FOR CLARITY
4. NO TREES TO BE REMOVED AS PART OF THIS PROJECT
5. USE ODOT ITEM 659 CLASS 1 LAWN MIXTURE SEED FOR GRASS
6. SAND PREFILL MATERIAL IS TO BE REMOVED FROM TOP OF BLUFF AND PLACED LAKEWARD OF REVETMENT.
7. PHOTOGRAPHS ARE TO BE TAKEN OF SAND PREFILL ACTIVITIES.
8. EXCAVATED MATERIAL FROM THE REGRADING AREA AT THE WEST END TO BE REMOVED AND DISPOSED OF OFFSITE.
9. MATERIAL FROM THE MARIANA PROPERTIES PARCEL CANNOT BE USED AS SAND PRE-FILL.

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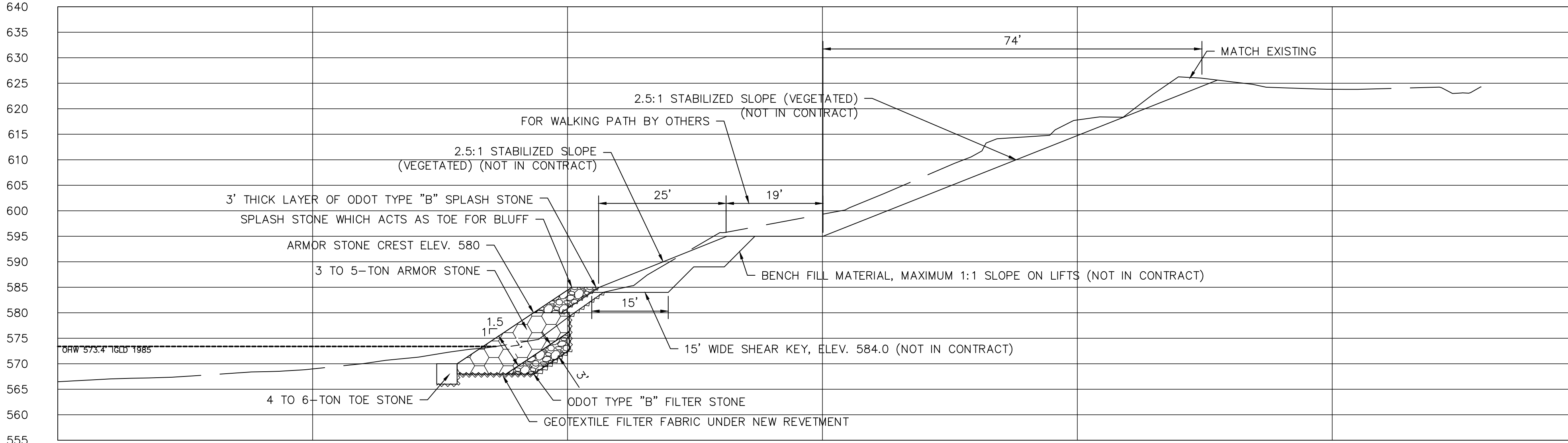
SCALE IN FEET
SCALE 1"=40'

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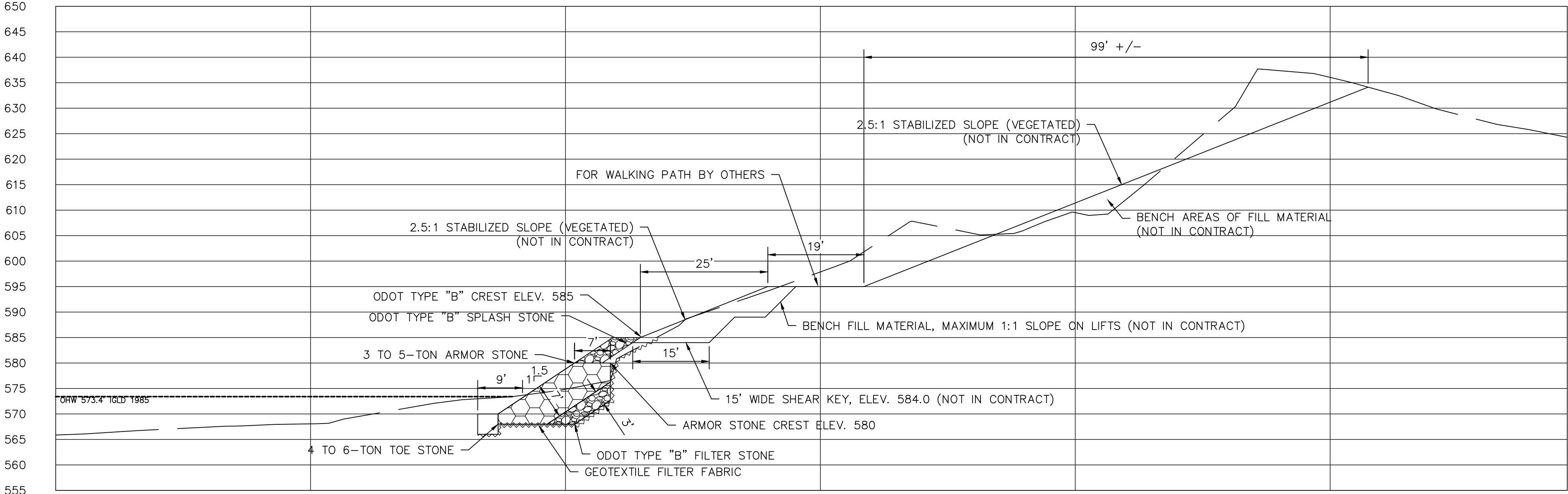
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NOTES
1. VERTICAL DATUM IS IGLD85.



SECTION A-A
SCALE IN FEET



SECTION B-B
SCALE IN FEET

ADJACENT PROPERTY OWNERS

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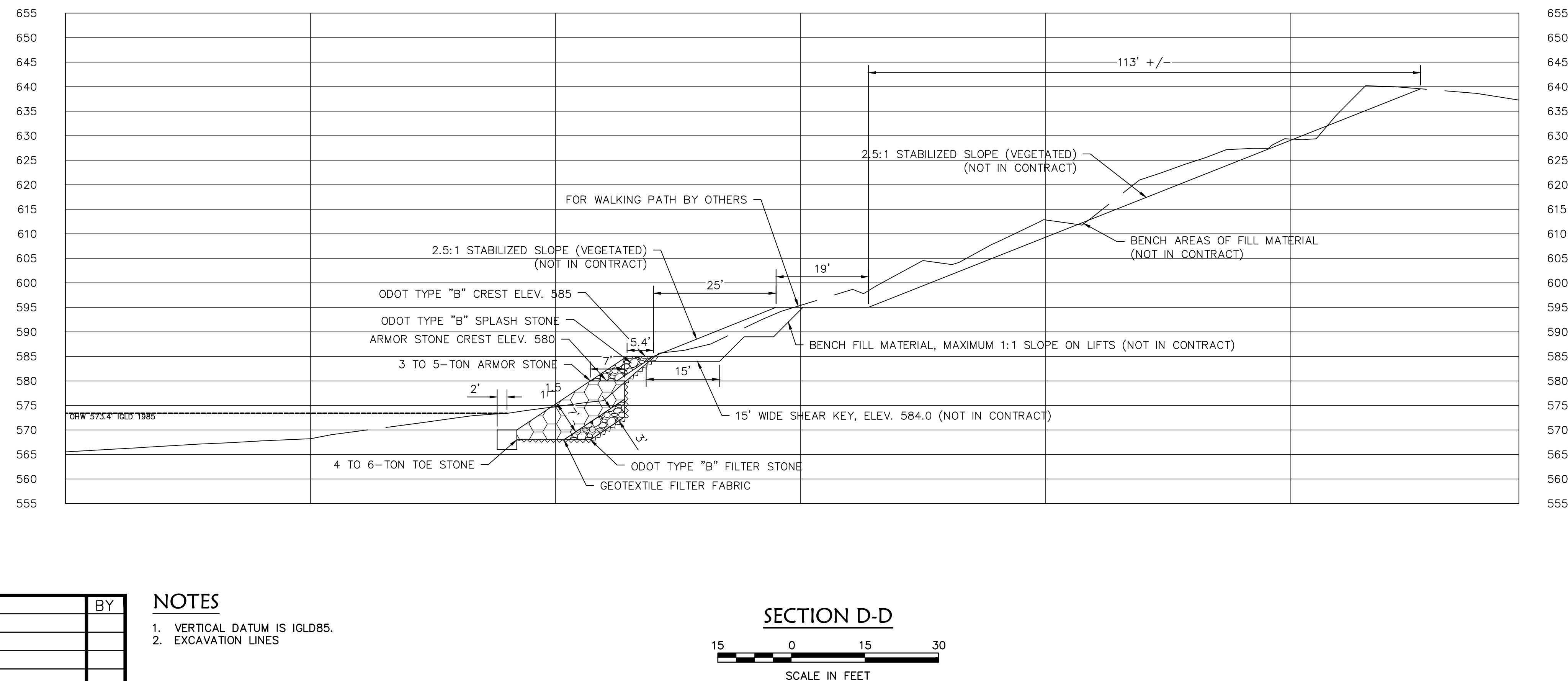
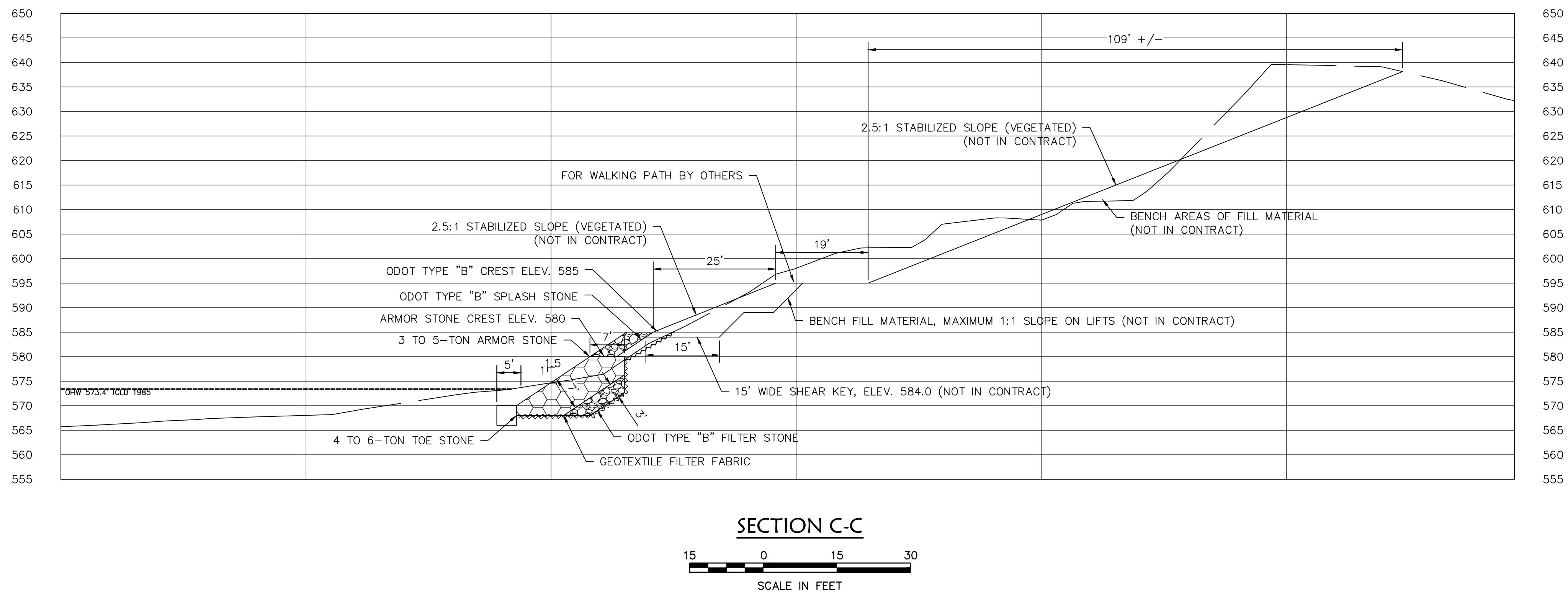
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SECTIONS

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PHASE II REVETMENT

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OF
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[illegible]

NOTES

1. VERTICAL DATUM IS IGLD85.
2. EXCAVATION LINES

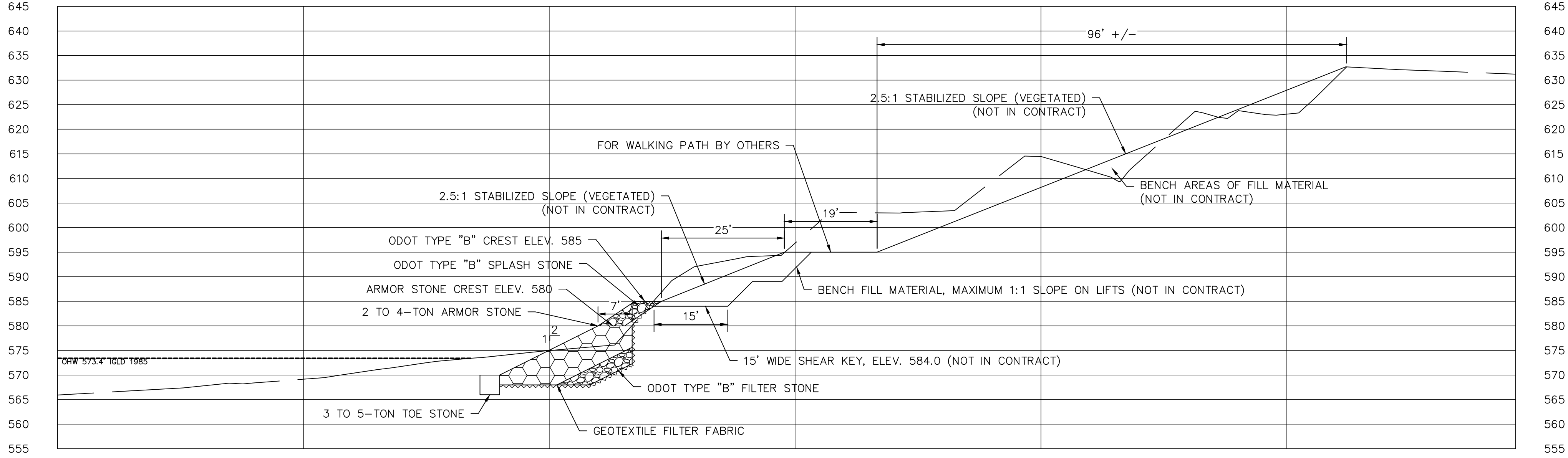
SECTIONS LAKEFRONT TRAIL PHASE II REVETMENT 775 HARDY ROAD PAINESVILLE, OHIO 44077	 KS ASSOCIATES KS Associates, Inc. 260 Burns Road, Suite 100 Elyria, OH 44035 P 440 365 4730 F 440 365 4790 www.ksassociates.com	DATE: _____ DRAWN BY: _____ CHD BY: _____ DWG. NAME: _____ PATH: _____ F.B.: _____	ADJACENT PROPERTY OWNERS MARY LOU RAKKO 29200 EUCLID AVENUE, WICKLIFFE, OHIO 44092 KB ECO SOLUTIONS, LLC 6900 GRANGER ROAD (SUITE 200), INDEPENDENCE, OHIO 44131 DATUM: 0.0 LWD = 569.2 FEET IGLD 1985
SHEET 9 OF 13	JOB NO. 21197-1		

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REVISIONS	DATE	DESCRIPTION	BY

NOTES

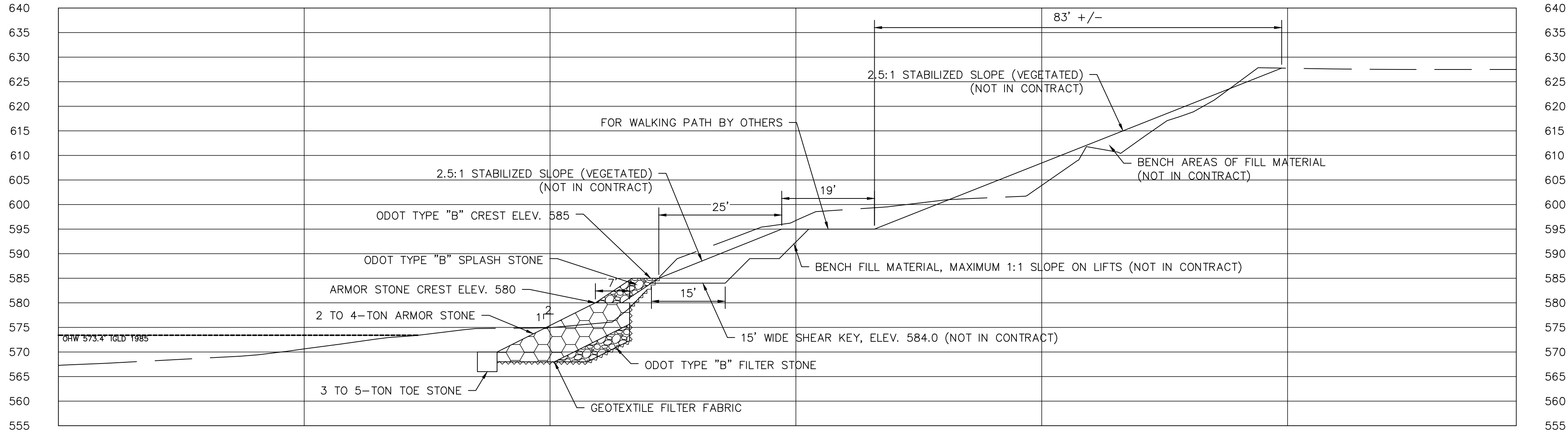
1. VERTICAL DATUM IS IGLD85.
2. EXCAVATION LINES



SECTION E-E

15 0 15 30

SCALE IN FEET



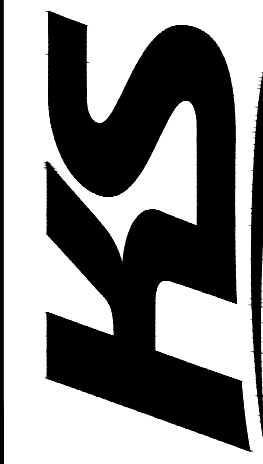
SECTION F-F

15 0 15 30

SCALE IN FEET

ADJACENT PROPERTY OWNERS	
MARY LOU RAJKO	29200 EUCLID AVENUE, WICKLIFFE, OHIO 44092
KB ECO SOLUTIONS, LLC	6900 GRANGER ROAD (SUITE 200), INDEPENDENCE, OHIO 44131
DATUM: O.O LWD = 569.2 FEET IGLD 1985	

DATE:	
DRAWN BY:	
CHK'D BY:	
DWG. NAME:	
PATH:	
F.B.:	



KS ASSOCIATES

KS Associates, Inc.
260 Burns Road, Suite 100
Elyria, OH 44035
P 440 365 4730
F 440 365 4790
www.ksassociates.com

SECTIONS

**LAKEFRONT TRAIL
PHASE II REVETMENT**

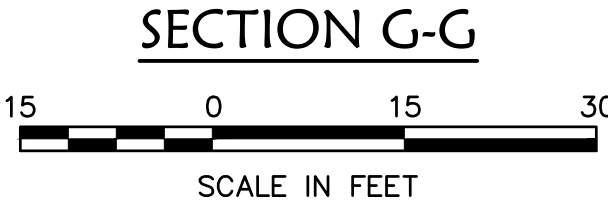
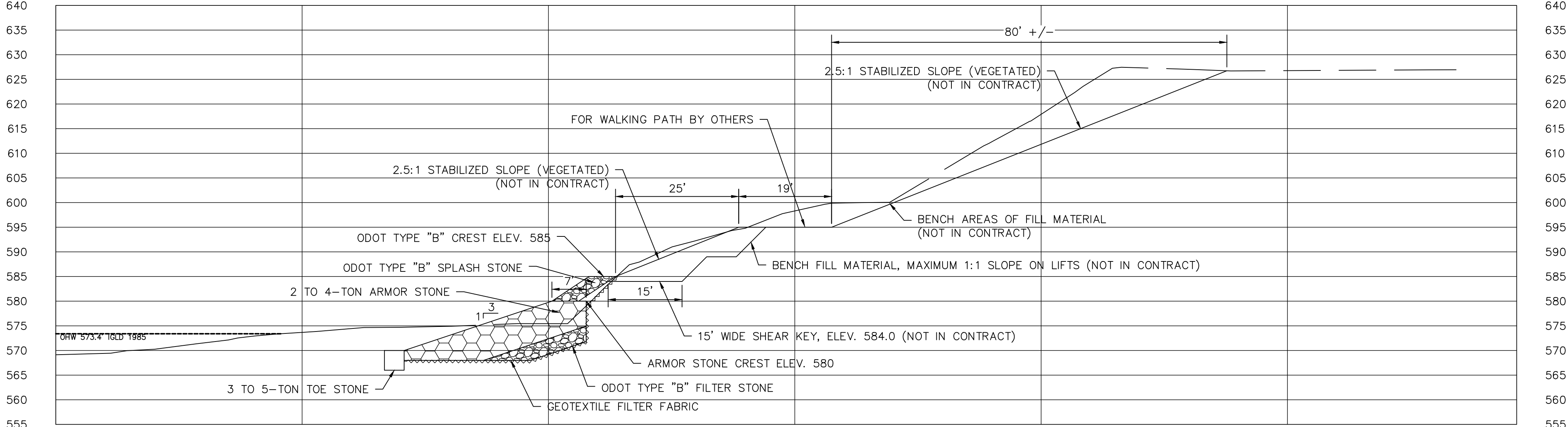
775 HARDY ROAD
PAINESVILLE, OHIO 44077

SHEET 10	OF 13
JOB NO. 21197-1	

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REVISIONS	DATE	DESCRIPTION	BY

- NOTES
1. VERTICAL DATUM IS IGLD85.
 2. EXCAVATION LINES



SECTIONS

LAKEFRONT TRAIL
PHASE II REVETMENT

775 HARDY ROAD
PAINESVILLE, OHIO 44077



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ADJACENT PROPERTY OWNERS

MARY LOU RAJKO
29200 EUCLID AVENUE, WICKLIFFE, OHIO 44092

KB ECO SOLUTIONS, LLC
6900 GRANGER ROAD (SUITE 200), INDEPENDENCE, OHIO 44131

DATUM: O.O LWD = 569.2 FEET IGLD 1985

STORMWATER POLLUTION PREVENTION NOTES

- CONSTRUCT IN ACCORDANCE WITH THESE PLANS, AND THE OHIO RAINWATER AND LAND DEVELOPMENT HANDBOOK (2006). THE IMPLEMENTATION OF SOIL EROSION AND SEDIMENT CONTROL SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) UNDER A NPDES PERMIT. IF CONFLICTS EXIST RE-GRADING THE SOIL AND SEDIMENT CONTROL PRACTICES, THE MORE RESTRICTIVE SHALL APPLY.
- STABILIZATION OF DISTURBED AREAS – DISTURBED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN TWO DAYS IF THEY ARE TO REMAIN DORMANT FOR MORE THAN FOURTEEN DAYS. FOR SURFACE WATERS OF THE STATE, SOIL STABILIZATION PRACTICES SHALL BE INITIATED WITHIN TWO DAYS ON ALL INACTIVE, DISTURBED AREAS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN TWO DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING, NON-VEGETATIVE OIL STABILIZATION PRACTICES SUCH AS MULCHING AND MATTING SHALL BE USED.
- PROTECT UNDISTURBED AREAS THROUGHOUT CONTRUCTION. DO NOT STORE EQUIPMENT, VEHICLES, OR MATERIALS IN THESE PROTECTED AREAS.
- SEEDING AND FERTILIZER FOR PERMANENT COVER SHALL BE AQUATIC SAFE.
- MULCHING SHALL BE AS SPECIFIED IN ODOT CMS 659; STRAW IS NOT ALLOWED.
- TOPSOILING SHALL BE AS SPECIFIED IN ODOT CMS 659
- SILT SOCKS SHALL BE AS DETAILED ON THE DRAWINGS.
- NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORMWATER RUNOFF.
- OFF-SITE VEHICLE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. ALL OFF-SITE TRACKING OF SEDIMENT SHALL BE CLEANED UP AS IT OCCURS.
- OTHER EROSION CONTROL AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
- OTHER EROSION CONTROL AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
- WINTERIZATION – ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED OFR 14 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE A DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH 1
- THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES.
- DISTURBED AREAS REMAINING DORMANT FOR OVER A YEAR AT THE FINAL GRADE WILL HAVE A PERMANENT COVER APPLIED WITHIN 7 DAYS OF LAST DISTURBANCE.

PROJECT LOCATION
LATITUDE: 41°29'43.9"N
LONGITUDE: 81°48'24.9"W

NAME OF WATERSHED/IMMEDIATE RECEIVING WATERS
LAKE ERIE

ACREAGE SUMMARY TABLE		
DESCRIPTION OF AREA	ACREAGE	%
BLUFF STABILIZATION	3.16	100
OUTFALL REPLACEMENT	0.00	0
NOI DISTURBING AREAS	3.16	100

LEGEND

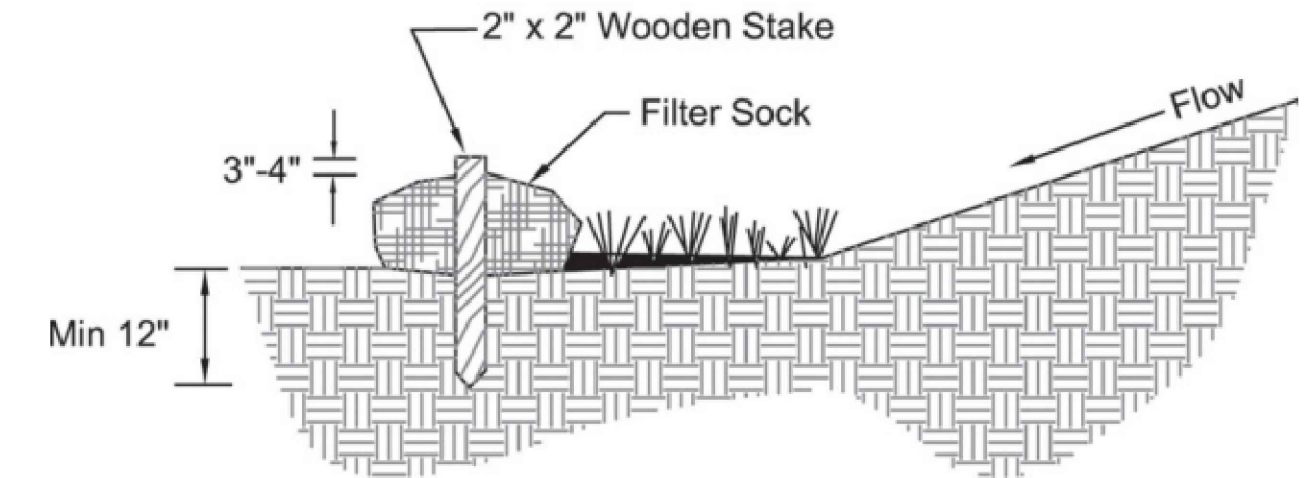
- CS

= CONSTRUCTION STAGING, STORAGE, & PARKING ARE TO BE LOCATED BY CONTRACTOR TO BEST FIT HIS METHODS
- F

= EQUIPMENT/VEHICLE FUELING AND MAINTENANCE AREA TO BE LOCATED BY CONTRACTOR TO BEST FIT HIS METHODS
- = LIMITS OF DISTURBANCE
- = CONCRETE WASHOUT AREA
- = ACCESS ROUTE
- = SILT SOCK

NOTES

- PROJECT BLUFF STABILIZATION INCLUDES THE PLACEMENT OF STONE AT THE TOE OF THE EXISTING BLUFF WITH NEW CONCRETE MODULES AND SHEET PILE UP TO THE BLUFF CREST. PROJECT OUTFALL REPLACEMENT INCLUDES A NEW JUNCTION BOX AND OUTFALL PIPE TO BE INSTALLED AT THE TOP OF THE BLUFF.
- VERTICAL DATUM IS IGLD85.
- AERIAL PHOTOGRAPHY FROM OGRIPS DATA DOWNLOADS, 2017
- ALL CATCH BASINS SHALL HAVE ADS PURE INLET FILTERS INSTALLED THE SIZE OF THE FILTERS SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL USE "FLEXSTORM CATCH-IT REUSABLE INLET PROTECTION" FILTERS COMPLIANT WITH ASTM D8057 OR EQUAL.
- CONCRETE WASHOUT AREA SHALL BE USED IN ACCORDANCE WITH ALL STATE AND CITY REGULATIONS. NO CONCRETE DUE TO WASHING SHALL ENTER SURFACE WATERS.
- CATCH BASIN NOTES:
 - ELEV = GUTTER GRADE
1-1/2" @ 1/2" CROSS SECTION SLOPE
1" @ 1/4" CROSS SECTION SLOPE
 - TOP OF CASTING SHALL BE 1" BELOW PREVAILING GUTTER GRADE
 - INVERT ELEVATION, UNLESS OTHERWISE SHOWN ON PLANS
- TEMPORARY 6' HIGH CHAIN LINK FENCE TO BE SECURED WITH EITHER DRIVEN POSTS IN LANDSCAPE AREAS OR WEIGHTED STANCHIONS IN PAVEMENT AREAS.
- CONTRACTOR IS RESPONSIBLE FOR BARRICADING ALL PUBLIC VEHICLES, PEDESTRIANS, CYCLISTS, ETC. FROM ENTERING THE SITE.
- THE CONTRACTOR MAY OPT TO USE A CIRCULAR MANHOLE FROM THE CITY OF LAKEWOOD'S STANDARD SPECIFICATIONS, LS 2530, FOR THE 12" CMP AND RELINE PORTION



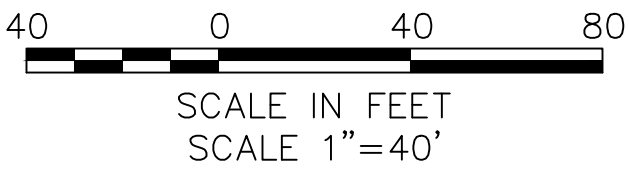
Maximum Slope Length above Filter Sock and Sock Diameter	8"	12"	18"	24"
Ratio (H:V)				
Less than 50:1	125	250	300	350
50:1 to 10:1	100	125	200	250
10:1 to 5:1	75	100	150	200
5:1 to 2:1		50	75	100
Greater than 2:1		25	50	75

SILT SOCK DETAIL

NO SCALE



STORMWATER POLLUTION PREVENTION PLAN



BY

DATE

DESCRIPTION

DATE: 04-03-2023

DRAWN BY: MAC

CHK'D BY: TAB

DWG. NAME: 21197-1-REVISED.dwg

PATH: CIVIL_3D_2019

F.B.: 10x7_10x8

REVISIONS

NO.	DESCRIPTION	DATE

KS Associates, Inc.

260 Burns Road, Suite 100

Elyria, OH 44035

P 440 365 4730

F 440 365 4790

www.ksassociates.com

KS ASSOCIATES

775 HARDY ROAD

PAINESVILLE, OHIO 44077

STORMWATER POLLUTION PREVENTION

LAKEFRONT TRAIL

PHASE II REVETMENT

SHEET 13 OF 13

JOB NO. 21197-1