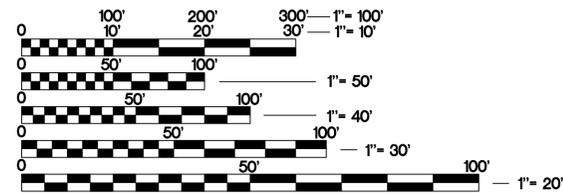




FINAL ENGINEERING PLANS FOR: MASTODON LAKE DREDGING CITY OF AURORA

KANE COUNTY, ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF HIGHWAY STANDARDS SEE SHEET NO. 2
FOR BENCHMARK INFORMATION, SEE SHEET NO. 2



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
811 OR 1-800-892-0123

Dial 811 or 1-800-892-0123. JULIE DESIGN TICKET NUMBER: # A0330734

WITH THE FOLLOWING:
COUNTY KANE COUNTY
CITY-TOWNSHIP AURORA-AURORA TOWNSHIP
SEC. & 1/4 SEC. NO. # 26.35-38 N.-8 E.

(2) Working Days before you dig
(Excluding Sat., Sun. & Holidays)

Know what's below.
Call before you dig.

ENGINEER/SURVEYOR:

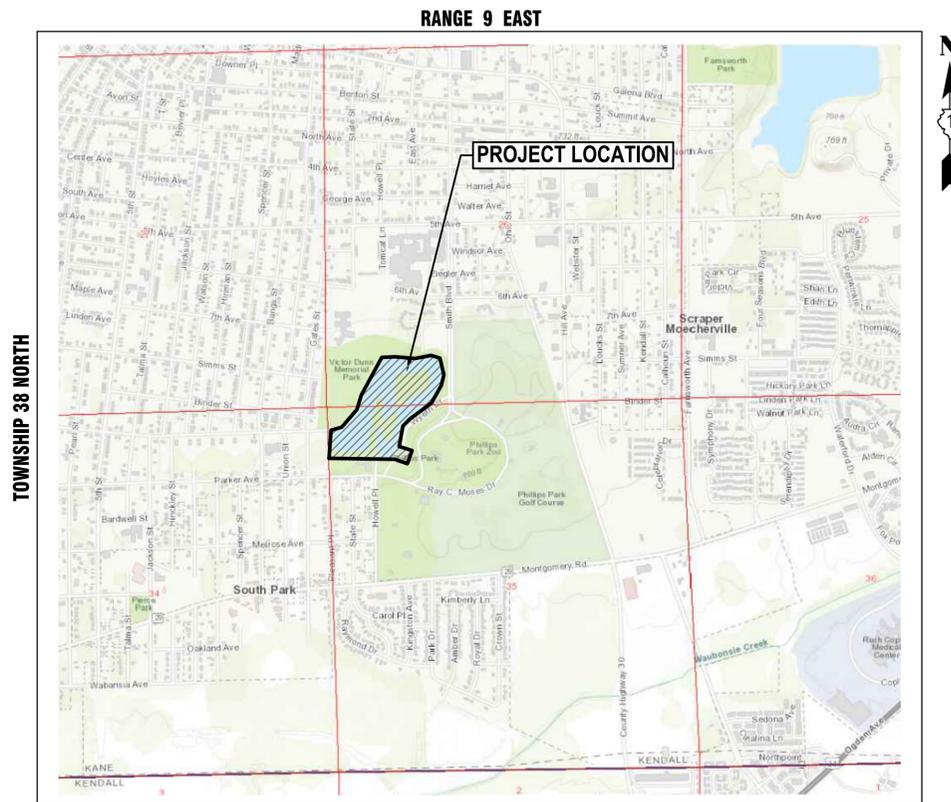
HR GREEN, INC
2363 SEQUOIA DRIVE, SUITE 101 | AURORA, IL 60506

CLIENT MANAGER: A. JAIN, P.E.
(815) 759-8331
PROJECT MANAGER: L. GILBERTSEN, P.E.
(815) 759-8370
PROJECT SURVEYOR: J. BOLINE, P.L.S.
(815) 759-8375

CONTRACT NO.
I.E.P.A. PERMIT NO. 021-EA-66294

FOR BIDDING
-NOT FOR CONSTRUCTION-

2363 SEQUOIA DRIVE, SUITE 101 | AURORA, IL 60506
Phone: 630.553.7560 | Toll Free: 800.728.7805 | Fax: 630.553.7646 | HRGreen.com



KANE COUNTY- AURORA TOWNSHIP
THIRD PRINCIPAL MERIDIAN

PROJECT LOCATION MAP
SCALE: N.T.S.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ILLINOIS	KANE	32	1
CONTRACT NO.				



CITY OF AURORA

APPROVED _____ 20____

CITY OF AURORA

PLAN REVISIONS	
DATE	TITLE
4/7/2021	PRELIMINARY CONCEPT - SUBMITTAL TO CITY OF AURORA
7/9/2021	90% SUBMITTAL FOR REVIEW - SUBMITTAL TO CITY OF AURORA
8/20/2021	100% SUBMITTAL FOR REVIEW - SUBMITTAL TO CITY OF AURORA
4/13/2024	100% FOR BIDDING - DREDGE ONLY

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Illinois.

04/12/2024
DATE

LOGAN R. GILBERTSEN, P.E.
License Number: 062.067541
My license renewal date is 11/30/2025
Pages or sheets covered by this seal:
DEWATERING, RESTORATION, EROSION CONTROL,
GENERAL SHEETS

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Illinois.

04/12/2024
DATE

KEVIN SPARROW, P.E.
License Number: 062.075465
My license renewal date is 11/30/2025
Pages or sheets covered by this seal:
ELECTRICAL

PLANS PREPARED FOR:

CITY OF AURORA
MR. SOUTS THAVONG, P.E., CFM
ENGINEERING COORDINATOR
CITY OF AURORA ENGINEERING DIVISION
44 EAST DOWNER PLACE
AURORA, IL 60507
PHONE: (630) 256-3207

**PROJECT LOCATED IN THE
CITY OF AURORA**

**PRINTED BY THE AUTHORITY
OF CITY AURORA**

Sheet List Table

Sheet Number	Sheet Title
01	Cover (1)
02	Index of sheets and IDOT Details (1)
03	General Notes (1)
04	Summary_of_Quantities (2)
05	Overall-Ex-Cond (1)
06	Overall-Dewatering Plan (1)
07	Overall-Ex-Lake-Bathymetrics (1)
08	Overall-Pr-Lake-Bathymetrics (2)
09	Overall Restoration Plan
10	Dewatering (1)
11	Dewatering (2)
12	Dewatering (3)
13	Dewatering (4)
14	Dewatering (5)
15	Bank Restore-Typs (3)
16	Detailed (1)
17	Erosion_Specs (1)
18	Erosion_Details (1)
19	Erosion_Details (2)
20	Erosion_Details (3)
21	Erosion_Details (4)
22	IDOT_Details (1)
23	IDOT_Details (2)
24	Electrical Symbols & Abbreviations
25	Electrical Site Plan
26	Electrical One Line Diagrams
27	Electrical Details

UTILITY CONTACTS

UTILITY: CITY OF AURORA
CONTACT: MIKE HOUSTON
PHONE: 331-254-2026
EMAIL: houstonm@aurora.il.us

UTILITY: ATT DISTRIBUTION
CONTACT: G11629@ATT.com
EMAIL: G11629@ATT.com

UTILITY: COMED
PHONE: 630-576-7094

UTILITY: COMCAST
CONTACT: MARTHA GIERAS
PHONE: 224-229-5862
EMAIL: martha_gieras@comcast.com

UTILITY: FOX METRO WATER RECLAM. DIST
CONTACT: KEITH ZOLLERS
PHONE: 630-301-6810
EMAIL: kzollers@foxmetro.org

UTILITY: NICOR GAS
CONTACT: UTILITY CONSULTANT G03W
PHONE: 630-388-2362

SYMBOL LEGEND

	EXISTING	PROPOSED
SANITARY MANHOLE	⊙	⊙
STORM MANHOLE	⊙	⊙
STORM CATCH BASIN/INLET	⊙	⊙
INLET	◁	▷
FLARED END SECTION	◁	▷
VALVE VAULT	⊗	⊗
WATER SERVICE VALVE	⊙	⊙
WATER B-BOX	⊗	⊗
INDICATES WATER MAIN LINE STOP	⊙	⊙
INDICATES PRESSURE VALVE INSERT	⊙	⊙
CUT AND CAP	⊙	⊙
FIRE HYDRANT WITH AUXILIARY VALVE	⊙	⊙
LIGHT POLE	⊙	⊙
REGULATORY SIGN	⊙	⊙
UTILITY POLE	⊙	⊙
UTILITY BOX	⊙	⊙
MAILBOX	⊙	⊙
WELL	⊙	⊙
SANITARY SEWER	—	—
STORM SEWER	—	—
COMBINATION STORM AND SANITARY SEWER	—	—
CULVERT	—	—
PERFORATED UNDERDRAIN	—	—
WATER MAIN	—	—
WATER MAIN ENCASUREMENT	—	—
TRENCH BACKFILL	—	—
SANITARY FORCE MAIN	—	—
ELECTRIC LINE	—	—
OVERHEAD ELECTRIC LINE	—	—
UNDERGROUND ELECTRIC	—	—
TELEPHONE LINE	—	—
GAS LINE	—	—
CABLE TV LINE	—	—
FIBER OPTIC LINE	—	—
RAILROAD TRACKS	—	—
TREE LINE	—	—
TREE	—	—
CONTOURS	—	—
SPOT ELEVATION	—	—
FENCE	—	—
WETLAND	—	—
MARSH / WETLAND	—	—
RIPRAP	—	—
DRAINAGE DIRECTION ARROW	—	—
DRAINAGE OVERFLOW DIRECTION	—	—

STANDARD ABBREVIATIONS

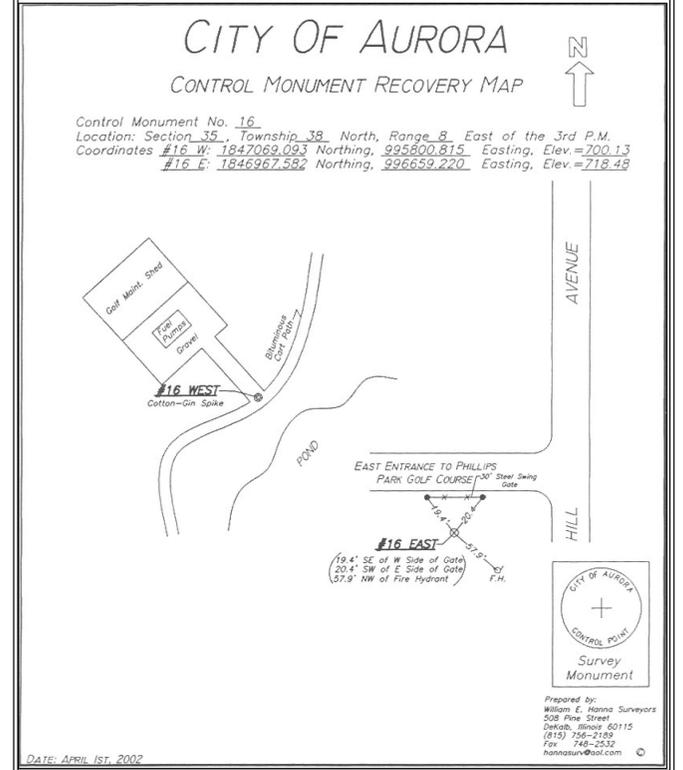
B-B - BACK TO BACK OF CURB	L.E. - LANDSCAPE EASEMENT
B.C. - BACK OF CURB	M.H. - MANHOLE (TYPE SPECIFIED ON PLANS)
B.O.C. - BACK OF CURB	R.C.M.E. - ROAD CONSTRUCTION & MAINTENANCE EASEMENT
B.S.L. - BUILDING SETBACK LINE	R.O.W. - RIGHT OF WAY
C.B. - STORM CATCH BASIN	T.B.F. - TRENCH BACKFILL
C.E. - COMMONWEALTH EDISON CO.	T.C. - TOP OF CURB
D.E. - DRAINAGE EASEMENT	T.C.E. - TEMPORARY CONSTRUCTION EASEMENT
E-E - EDGE TO EDGE OF PAVEMENT	T.O.B. - TOP OF BERM
E.O.P. - EDGE OF PAVEMENT	T.O.C. - TOP OF CURB
E.O.S. - EDGE OF SHOULDER	U.E. - UTILITY EASEMENT
E.P. - EDGE OF PAVEMENT	
E.S. - EDGE OF SHOULDER	
F.E.S. - FLARED END SECTION	
I.B.T. - ILLINOIS BELL TELEPHONE CO.	

SITE BENCHMARKS:

DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

SITE BENCHMARK

CITY OF AURORA BENCHMARK #16E
CITY OF AURORA SURVEY MONUMENT DISK AT THE SOUTHWEST INTERSECTION OF HILL AVENUE AND THE EAST ENTRANCE TO PHILLIPS PARK GOLF COURSE. LYING 6.9' SOUTHWEST OF NORTHWEST POST CORNER OF THE PHILLIPS PARK GOLF COURSE SIGN AND 13.7' NORTHWEST OF THE SOUTHWEST POST CORNER OF THE PHILLIPS PARK GOLF COURSE SIGN.
ELEVATION=718.48 (NAVD88)



COMPANY NAME: HRGreen.com
PROJECT CONTACT: HRGreen.com
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PLOT DATE = 6/12/2024	DATE - 05/24/2024	REVISED -

CITY OF AURORA
MASTODON LAKE DREDGING PROJECT

INDEX OF SHEETS, BENCHMARKS AND UTILITY CONTACTS

SCALE: N.T.S. SHEET NO. 01 OF 01 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	02
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

1. All items of this project shall be governed by specifications included in the documents listed below:
 - A. "Standard Specifications for Road and Bridge Construction" prepared by the Department of Transportation of the State of Illinois and adopted by said department (Latest Edition).
 - B. Supplemental Specifications and Recurring Special Provisions" adopted by the Illinois Department of Transportation (Latest Edition).
 - C. "Bureau of Design & Environment Manual" (BDE) by Illinois Department of Transportation (Latest Edition)
 - D. "Manual on Uniform Traffic Control Devices" – Federal Highway Administration MUTCD (Latest Edition).
 - E. "Illinois Supplement to the National Manual on Uniform Traffic Control Devices" (Latest Edition).
 - F. "Standard Specifications for Water and Sewer Main Construction in Illinois" (Latest Edition).
 - G. "Illinois Urban Manual" prepared by the U.S. Department of Agriculture NRCS and maintained by the Association of Illinois Soil and Water Conservation Districts (Latest Edition).
 - H. "Standards and Specifications for Soil Erosion and Sediment Control" by IEPA, Illinois Urban Manual – A Technical Manual Designed For Urban Ecosystem Protection and Enhancement, (Latest Edition).
 - I. "Kane County Stormwater Management Ordinance"

In addition the following special provisions supplement the said specifications, and in case of conflict with any part or parts of said specifications, these special provisions shall take precedence and shall govern.

2. SCOPE OF WORK: The proposed improvement consists of supplying all the necessary labor, material and equipment to satisfactorily construct and install all improvements according to the plans designated as MASTODON LAKE DREDGING PROJECT – AURORA,IL.

3. COORDINATION WITH UTILITIES

Prior to the start of construction, the contractor shall have all utilities located by J.U.L.I.E (811) or (1-800-892-0123) at least 48 hours prior to the start of construction. The contractor shall cooperate with all utility owners as provided for in the Standard Specifications.

The contractor shall be responsible for the protection of all underground or surface utilities, even though they may not be shown on the plans. Any utility that is damaged during construction shall be repaired or replaced to the satisfaction of the Engineer or the Owner. This work shall be paid for at the Contractor's expense.

It is the Contractor's responsibility to locate all existing utilities prior to construction. The location of existing utilities as shown on these plans is based on record information and may not be accurate. Where conflict exists between existing utilities and the proposed underground piping requiring a revision to the plans, such construction shall not be undertaken until such changes are approved by the Engineer. The contractor shall report all such conflicts immediately to the Engineer.

The coordination of all utility work for the construction project will be discussed at a pre construction meeting.

4. CLEARING, TREE REMOVAL, BUSH REMOVAL, AND PROTECTION
The Contractor shall provide protection as per Article 201 of the Standard Specifications.

5. CONSTRUCTION FENCING

- A. Perimeter Construction Fencing to be placed to ensure the safety of property and life. Fencing of areas for contractors stockpile, staging, security and safety shall not be measured for payment. Construction fencing shall be adjusted at the Owner's direction when it interferes with the Owner's operations.

6. CONSTRUCTION OBSERVATION
All improvements shall be subject to observation by a duly authorized and qualified City of Aurora or owner's representative both during the course of construction and after construction is complete for final project closeout.

7. EROSION CONTROL. It shall be the Contractor's responsibility to properly control erosion on the jobsite. Any siltation of conduits, structures, or ditches shall be cleaned and maintained by the Contractor until the seeding has taken hold. All washouts, gullies, etc. will be regraded and reseeded by the Contractor. Site grading shall not proceed until erosion control measures have been installed.

The Contractor's responsibility for erosion control shall extend throughout the construction process. The Contractor shall be responsible for clean-up of paved surfaces within and adjacent to the project on a timely basis and/or at the direction of the Engineer, or City of Aurora.

All construction will adhere to the requirements set forth in the IEPA's General NPDES Permit for Stormwater Discharge from construction site activities.

For all drainage structures in the disturbed areas, inlet protection shall be placed and maintained by the Contractor until vegetation is established, as determined by the City of Aurora.

Erosion control measures must be inspected weekly and after every storm of one half inch of rainfall or greater by the Contractor. An inspection report must be submitted by the Contractor to the City of Aurora following each inspection. Any repairs or replacement needed to ensure adequate erosion control must be made immediately at the Contractor's expense.

Construction & Silt fencing must be installed prior to starting construction.

8. TOPSOIL PLACEMENT. Contractor shall place stockpiled topsoil or imported material on all disturbed areas with a minimum 6" topsoil raked smooth to be ready for landscaping (seeding, sod, etc.).

9. No construction plans shall be used for construction unless specifically marked "For Construction." Prior to commencement of construction, the Contractor shall verify all dimensions and conditions affecting their work with the actual conditions at the job site. If there are any discrepancies from what is shown on the construction plans, he must immediately report same to the Engineer before doing any work, otherwise the Contractor assumes full responsibility. In the event of disagreement between the construction plans, standard specifications and/or special details, the Contractor shall secure written instructions from the Engineer prior to proceeding with any part of the work affected by omissions or discrepancies. Failing to secure such instructions, the Contractor will be considered to have proceeded at his own risk and expense. In the event of any doubt or question arising with respect to the true meaning of the construction plans or specifications, the decision of the Engineer shall be final and conclusive.

10. INDEMNIFICATION

Contractor shall provide indemnification as per Article 107.26 of the Standard Specifications. All costs for insurance shall be considered incidental to the contract.

ADDITIONAL REQUIREMENTS: The Contractor shall also indemnify and hold harmless, HR Green, Inc., the Consultant selected for Construction Engineering Services (HR Green, Inc.), City of Aurora, its officers, employees, agents, and subcontractors. The Contractor shall not commence work until additional indemnification requirements have been obtained under this paragraph.

11. INSURANCE AND LIABILITY

Contractor shall provide insurance coverage as per Article 107.27 of the Standard Specifications. All costs for insurance shall be considered incidental to the contract.

The "District" shall be taken to mean City of Aurora. The policy of insurance shall include HR Green, Inc., the Consultant selected for Construction Engineering Services (HR Green, Inc.), City of Aurora, and it's agents as an additional insured or provide separate coverage with an Owner's Protective Policy, as per the amounts stated in the Standard Specifications. No work shall begin until the certificate of insurance is on file with the Engineer.

ADDITIONAL REQUIREMENTS: The Contractor shall secure and maintain such insurance from an insurance company authorized to write casualty insurance in the State where the work is located and also will protect and list as additional insured, HR Green, Inc., the Consultant selected for Construction Engineering Services (yet to be determined), City of Aurora, and his subcontractors and his employees from claims for bodily injury, death or property damage which may arise from improvements on the property. The Contractor shall not commence work until he/she has obtained all insurance required under this paragraph and filed the certificate of insurance or the certified copy of the insurance policy.

12. SITE CLEAN UP

When construction operations take place adjacent to public roadways the contractor shall be responsible for removal of all loose debris deposited on the pavement. The stock piling of spoils from foundations or utility excavations will not be allowed on the pavement or in special management areas such as floodplains or wetlands.

13. LANDSCAPING & RESTORATION

The contractor shall take care in grading near trees, shrubs and bushes which are not to be removed so as not to cause injury to the roots, trunks or limbs. This work shall be included and paid for as "Tree Protection." Saw cutting of tree roots shall be considered incidental to the contract.

The contractor shall make every effort to avoid disturbing any existing landscaping, landscaping appurtenances, walkways, retaining walls, etc, that are not marked for removal on the plans. If damage occurs, the contractor shall replace, in kind, the item or items at his/her expense in a manner meeting with the approval of the Engineer. All vegetation being removed shall be replaced with the same size and type. No additional compensation will be allowed for damaged items.

14. STAKING

The contractor shall be responsible for establishing construction staking for the project site which will be paid for as a lump sum item, CONSTRUCTION STAKING LAYOUT. The Contractor shall protect and carefully preserve all section or subsection monuments or property or reference markers until the Owner, his agent or an authorized surveyor has witnessed or otherwise referenced their locations

The Engineer shall be responsible for providing electronic files to help facilitate the contractor's construction staking.

All elevations are on U.S.G.S. Datum. (NAVD 88)

15. MISCELLANEOUS

All work performed relative to this improvement shall comply with all applicable rules and regulations of O.S.H.A.

All construction personnel will be required to wear a safety vest, complying with the latest O.S.H.A. requirements, at all times while at the construction site. Compliance with this requirement shall be considered as incidental to the contract.

Unless otherwise indicated, the cost of all materials required and all labor necessary to comply with the above provisions will not be paid for separately, but shall be considered as included in the unit bid prices of the contract, and no additional compensation will be allowed.

The Contractor shall be responsible for the installation and maintenance of adequate signs, traffic control devices, and warning devices to inform and protect the public during all phases of construction. See Special Provisions. This work be measured and paid for as Traffic Control and Protection, (Special), Unless Noted Otherwise

Part of the proposed project is located within a flood hazard area, wetlands and Waters of the United States.

The contractor shall confine their grading operations to within construction limits and easements shown on the plans. Any damage to properties outside the site boundary shall be at the sole responsibility of the contractor.

The contractor shall apply necessary moisture control to the construction area and haul roads to prevent the spread of dust.

All field ties encountered shall be replaced and/or connected to the storm sewer system and located and identified on the record plans by the contractor.

All storm drainage construction shall be performed in accordance with the City of Aurora.

Elevations and contours are to state plane coordinates per NAVD 88 datum.

1 week prior to construction within City row or any connection to public sewers, contractor shall notify the appropriate City engineering divisions (see contact information on cover sheet of this plan set).

The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor shall not be permitted to park or service vehicles and equipment or store materials in areas outside of the optional staging area shown in plan. Requests for additional storage, parking and service areas will be subject to the approval of the owner.

The contractor is responsible for replacing any areas of pavement or sidewalk not to be removed that is damaged due to operating equipment on the pavement or sidewalk.

The contractor may be required to place temporary warning devices and safety fence at certain locations where replacement features are not installed the same day, as directed by the engineer or the Owner.

All construction within public row/easements and/or any connection to public sewers and streets, shall comply with the City construction specifications for subdivisions and latest edition of IDOT design standards

The Kane-DuPage Soil and Water Conservation District (KDSWCD) must be notified one week prior to pre-construction conference, one week prior to the commencement of land-disturbing activities, and one week prior to the final inspection.

Prior to commencing land-disturbing activities in areas other than indicated on these plans (including but not limited to, additional phases of development and off-site borrow or waste areas) a supplementary erosion control plan shall be submitted to the owner for review by the KDSWCD.

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: Illinois Professional Design Firm
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 FILE NAME: 191806-Cover
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PLOT DATE = 6/12/2024	DATE – 05/24/2024	REVISED –

**CITY OF AURORA
MASTODON LAKE DREDGING PROJECT**

GENERAL NOTES		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				KANE	27	03
		CONTRACT NO.				
SCALE: N.T.S.	SHEET NO. 01 OF 03 SHEETS	STA.	TO STA.			
		ILLINOIS FED. AID PROJECT				

	PAY ITEM #	CODED PAY ITEMS	UNITS	QUANTITY
1	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
2	67100100	MOBILIZATION	L SUM	1
3	SPECIAL	HYDRAULIC DREDGING & DEWATERING	CU YD	50,000
4	SPECIAL	MECHANICAL DREDGING	CU YD	1,000
5	X2020410	EARTH EXCAVATION SPECIAL - HAULING	CU YD	26,000
6	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	500
7	28000400	PERIMETER EROSION BARRIER	FOOT	4,282
8	X1200247	TURBIDITY CURTAIN	FOOT	220
9	28000305	TEMPORARY DITCH CHECKS	FOOT	200
10	25100115	MULCH, METHOD 2	ACRE	1.17
11	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	117
12	28000500	INLET AND PIPE PROTECTION	EACH	18
13	X6640200	TEMPORARY CHAIN LINK FENCE - SECURITY FENCE	FOOT	3,362
14	54200451	PIPE CULVERTS, TYPE 1 RCCP 24"	FOOT	50
15	X0322671	TEMPORARY CONSTRUCTION ENTRANCE	EACH	4
16	28500200	PRECAST BLOCK REVETMENT MAT	SQ.YD.	206
17	SPECIAL	SEEDING - AURORA MIX	ACRE	2.09
18	25100630	EROSION CONTROL BLANKET, S75	SQ YD	11,966
19	25100125	MULCH, METHOD 3	ACRE	2.09
20	SPECIAL	AERATION FOUNTAIN (COMPLETE)	EACH	5
21	SPECIAL	AERATION DIRECTIONAL MIXER (COMPLETE)	EACH	2
22	SPECIAL	AERATOR MAINTENANCE	YEAR	5
23	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
24	20101700	SUPPLEMENTAL WATERING	MONTH	3
25	20800150	TRENCH BACKFILL	CU YD	20
26	44201683	CLASS D PATCHES, TYPE III, 4 INCH	SQ YD	310
27	SPECIAL	ELECTRICAL	L SUM	1
28	SPECIAL	ITEMS ORDERED BY ENGINEER	EACH	200,000
29	SPECIAL	AERATION FOUNTAIN LIGHTING	EACH	3

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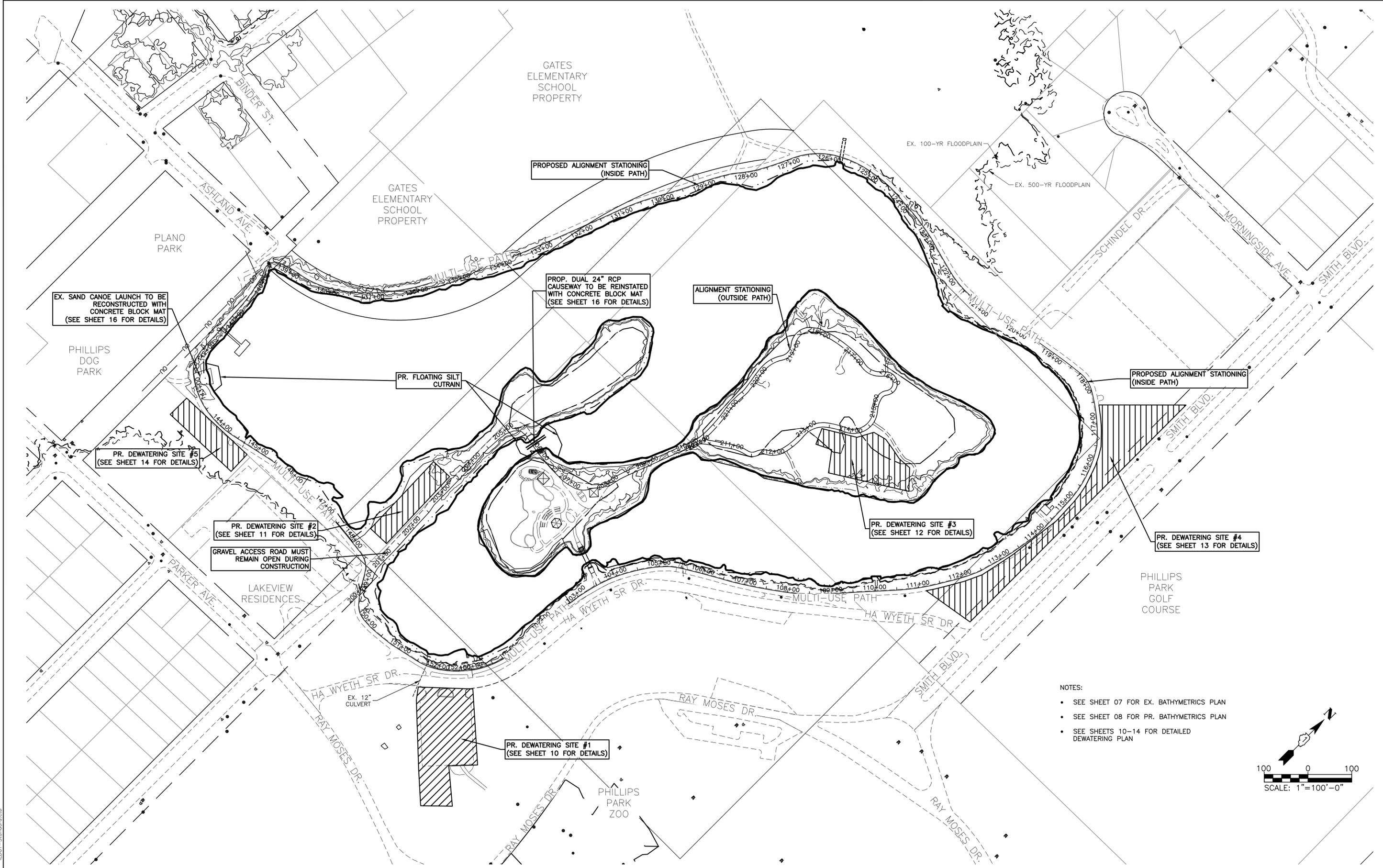
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**CITY OF AURORA
MASTODON LAKE DREDGING PROJECT**

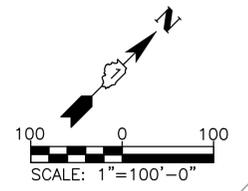
SUMMARY OF QUANTITIES

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	04
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



- NOTES:
- SEE SHEET 07 FOR EX. BATHYMETRICS PLAN
 - SEE SHEET 08 FOR PR. BATHYMETRICS PLAN
 - SEE SHEETS 10-14 FOR DETAILED DEWATERING PLAN



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 PROJECT CONTACT: HRGreen
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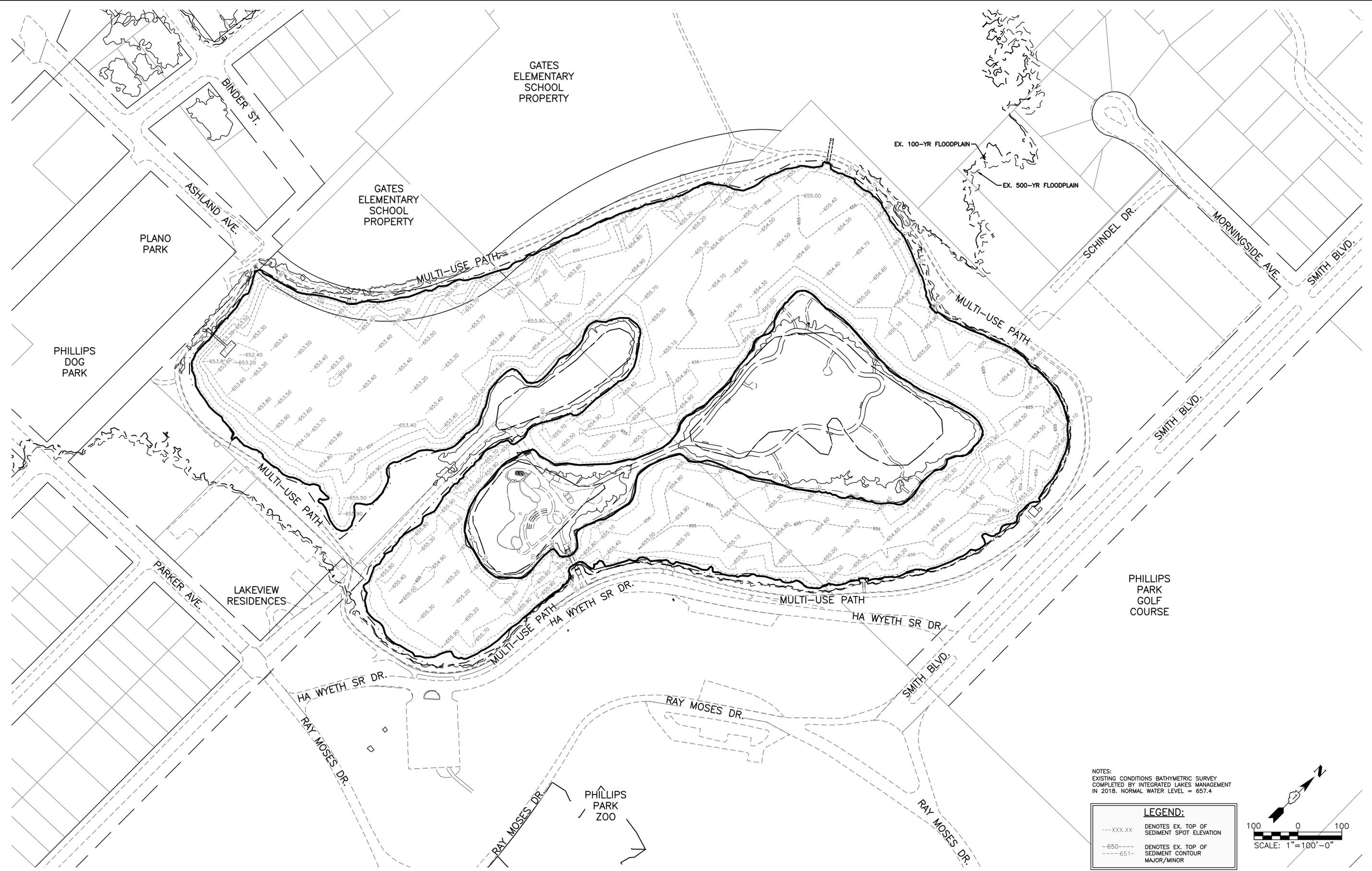

HRGreen.com
 Illinois Professional Design Firm
 #184.001322

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PLOT DATE = 6/12/2024	DATE - 05/24/2024	REVISED -

CITY OF AURORA
MASTODON LAKE DREDGING PROJECT

OVERALL PLAN / OVERALL DEWATERING PLAN		
SCALE: 1"=100'	SHEET NO. 01 OF 01 SHEETS	STA. TO STA.

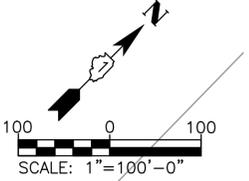
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	06
CONTRACT NO.				
<small>ILLINOIS FED. AID PROJECT</small>				



NOTES:
 EXISTING CONDITIONS BATHYMETRIC SURVEY
 COMPLETED BY INTEGRATED LAKES MANAGEMENT
 IN 2018. NORMAL WATER LEVEL = 657.4

LEGEND:

- XXX.XX DENOTES EX. TOP OF SEDIMENT SPOT ELEVATION
- 650--- DENOTES EX. TOP OF SEDIMENT CONTOUR MAJOR/MINOR



COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 6/12/2024 9:07 AM
 FILE NAME: 191806-Overall-Plan
 PLOT DRIVER: DWG To PDF.pc3
 PEN TABLE: ILDOT-Standard.ctb

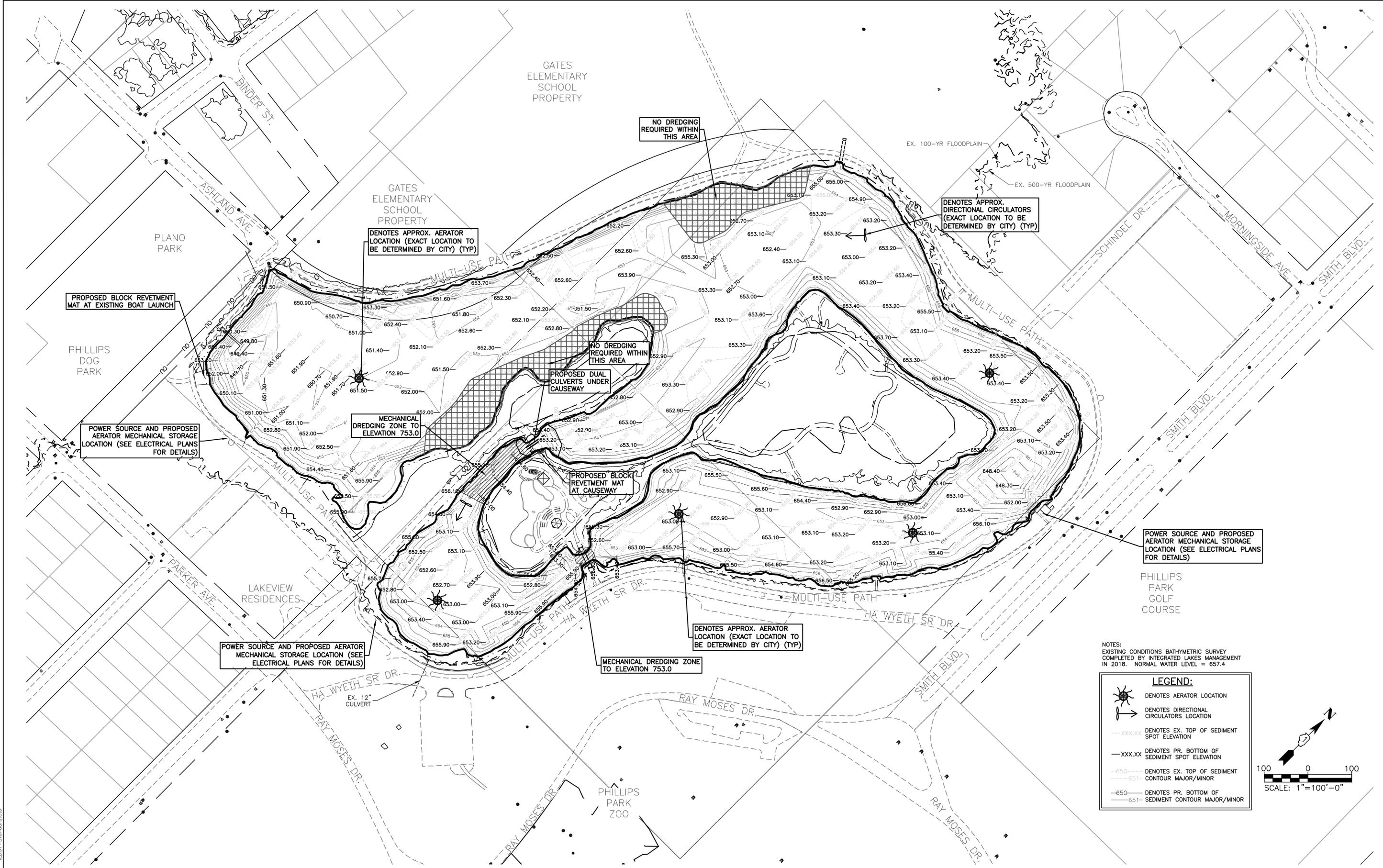
HRGreen.com
 Illinois Professional Design Firm
 #184.001322

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FILE NAME = 191806-Overall-Plan	DRAWN - MPL	REVISED -
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PLOT DATE = 6/12/2024	DATE - 05/24/2024	REVISED -

CITY OF AURORA
MASTODON LAKE DREDGING PROJECT

OVERALL EXISTING BATHYMETRICS PLAN		
SCALE: 1"=100'	SHEET NO. 01 OF 01 SHEETS	STA. TO STA.

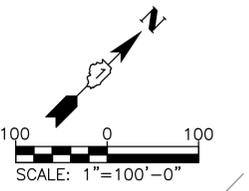
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	07
CONTRACT NO.				
<small>ILLINOIS FED. AID PROJECT</small>				



NOTES:
 EXISTING CONDITIONS BATHYMETRIC SURVEY
 COMPLETED BY INTEGRATED LAKES MANAGEMENT
 IN 2018. NORMAL WATER LEVEL = 657.4

LEGEND:

- DENOTES AERATOR LOCATION
- DENOTES DIRECTIONAL CIRCULATORS LOCATION
- XXX.XX DENOTES EX. TOP OF SEDIMENT SPOT ELEVATION
- XXX.XX DENOTES PR. BOTTOM OF SEDIMENT SPOT ELEVATION
- 650- DENOTES EX. TOP OF SEDIMENT CONTOUR MAJOR/MINOR
- 651- DENOTES PR. BOTTOM OF SEDIMENT CONTOUR MAJOR/MINOR



COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
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 CLIENT: 191806-Overall-Plan
 FILE NAME: 191806-Overall-Plan
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PLOT DATE = 6/12/2024	DATE - 05/24/2024	REVISED -

CITY OF AURORA
MASTODON LAKE DREDGING PROJECT

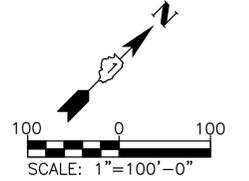
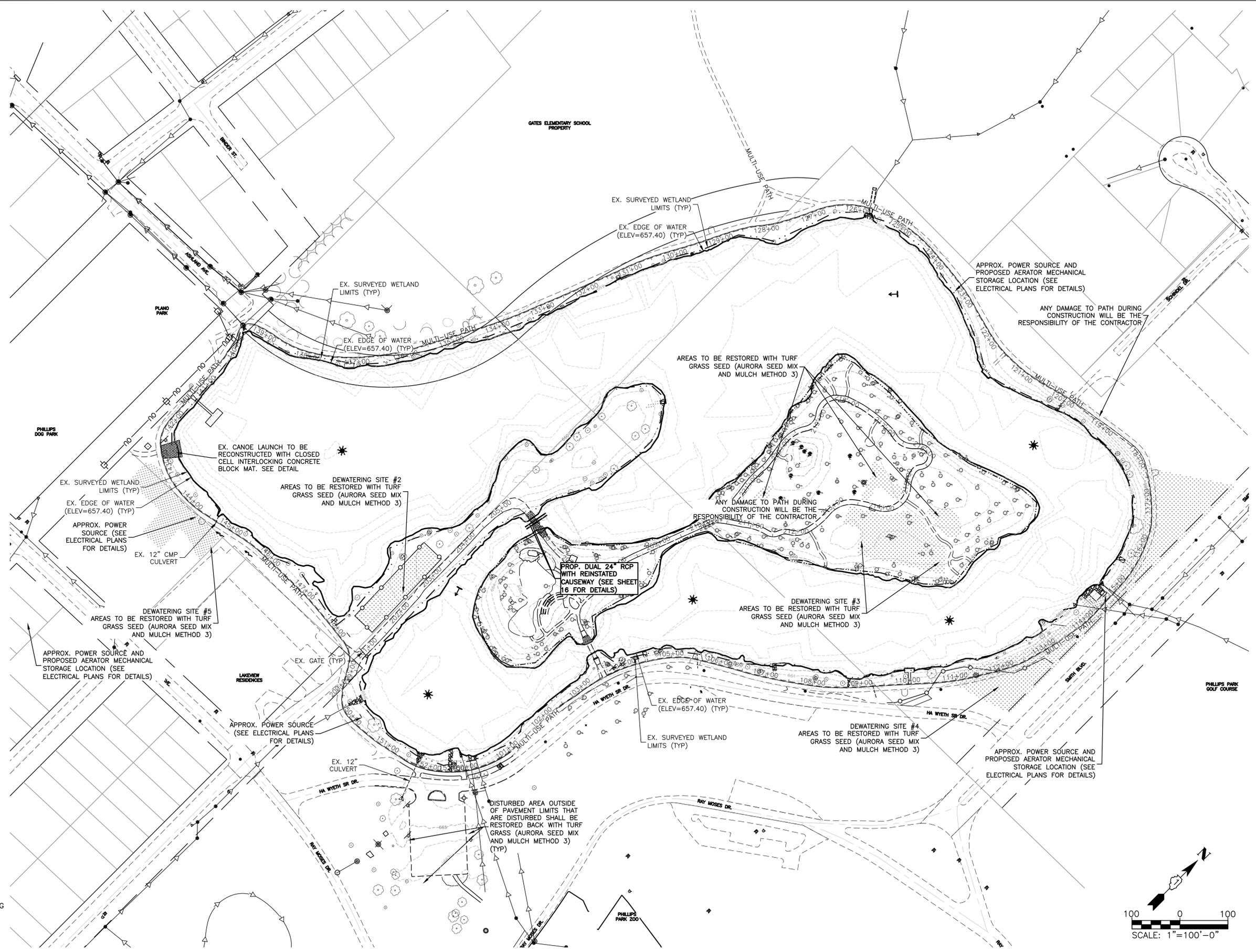
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SCALE: 1"=100'	SHEET NO. 01 OF 01 SHEETS	STA. _____	TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	08
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

RESTORATION LEGEND:

-  INDICATES TURF GRASS SEED (AURORA SEED MIX AND MULCH METHOD 3)(SEE SPECIFICATIONS)
-  INDICATES INTERLOCKING CONCRETE BLOCK MAT (SEE SHEET 15 FOR DETAILS)
- 650--- DENOTES EX. TOP OF GROUND CONTOUR MAJOR/MINOR
- 651--- DENOTES EX. TOP OF SEDIMENT CONTOUR MAJOR/MINOR
- 650--- DENOTES PR. LAKE BOTTOM CONTOUR MAJOR/MINOR
- 651--- DENOTES PR. LAKE BOTTOM SPOT ELEVATION
-  DENOTES AERATOR LOCATION
-  DENOTES DIRECTIONAL CIRCULATORS LOCATION

- NOTES:
- ALL TREES ARE TO REMAIN UNLESS OTHERWISE NOTED. BANK TREATMENTS SHALL BE INSTALLED TO MINIMIZE IMPACTS TO THE ROOT STRUCTURE.
 - FOR MECHANICAL MIXING, SEE ELECTRICAL PLANS FOR DETAILS
 - SEE SHEET 21 FOR SEED/PLUG PLANTINGS AND SEEDING MIXTURES



COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 CLIENT: HRGreen
 DATE PLOTTED: 6/12/2024 9:07 AM
 FILE NAME: 191806-Restoration-Plan
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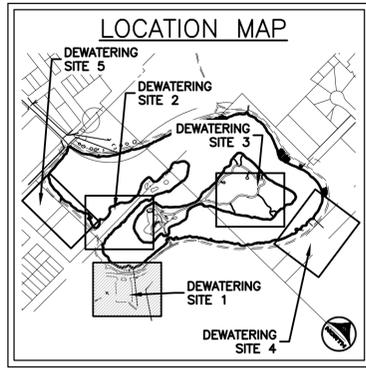


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**CITY OF AURORA
MASTODON LAKE DREDGING PROJECT**

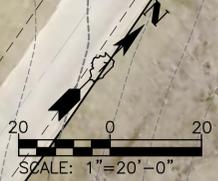
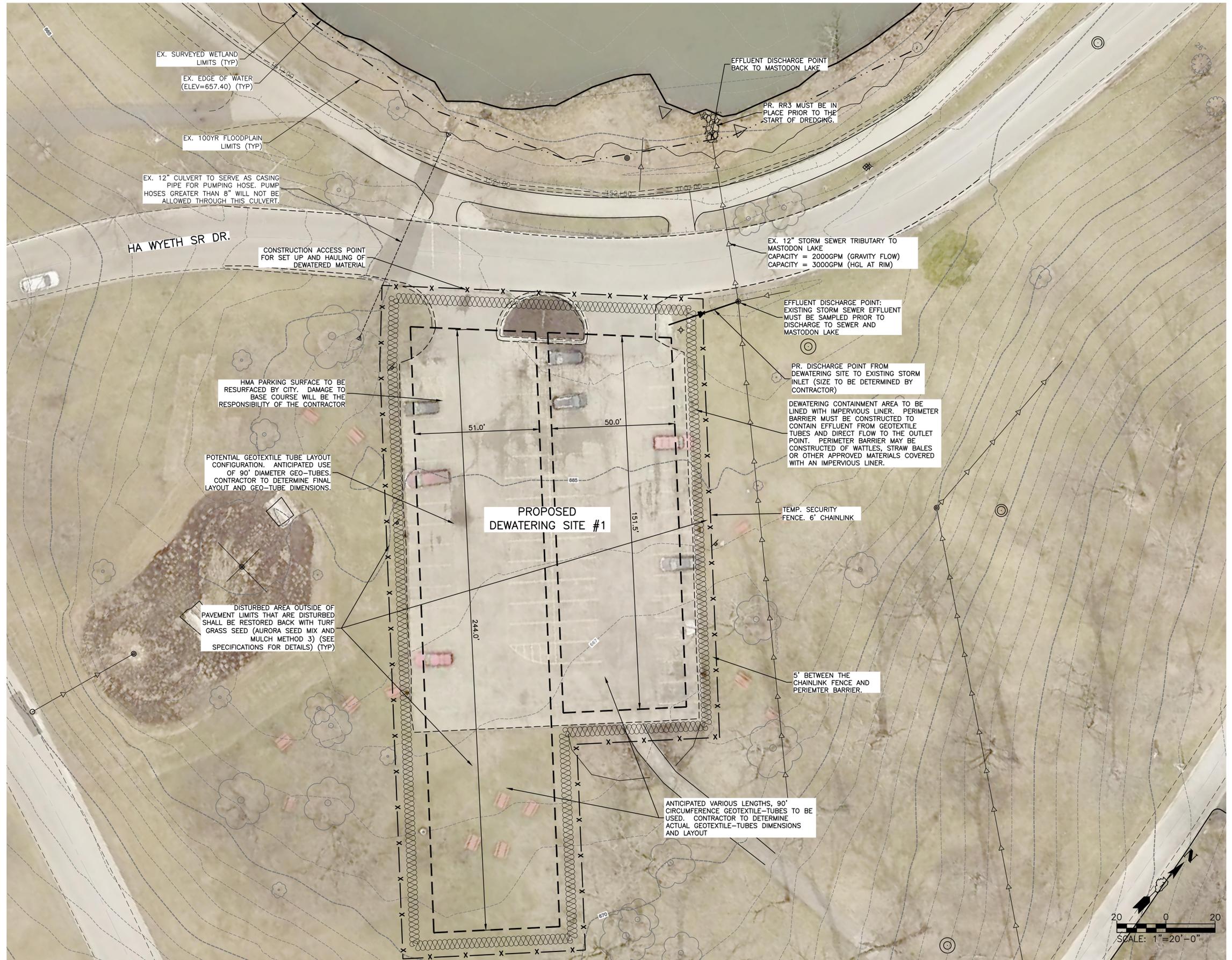
OVERALL RESTORATION PLAN	
SCALE: 1"=40'	SHEET NO. 01 OF 01 SHEETS
STA. _____	TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	09
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



NOTES:

- CONTRACTOR TO COMPLETE BENCH TESTING WITH THE SUPERNATE SAMPLES TO DEMONSTRATE THAT A 15MG/L TSS IS BEING MET FOR THE CHOSEN FLOCCULANT AND GEOTEXTILE BAG MATERIAL. DATA MUST BE SUBMITTED TO THE IEPA PRIOR TO USE.
- CONTRACTOR TO PROVIDE MSDS DATA FOR PROPOSED FLOCCULANTS TO THE IEPA AND CITY FOR APPROVAL PRIOR TO USE.
- CONTRACTOR TO REVIEW GROUND CONDITIONS FOR SLOPE AND OBSTACLES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE GEOTEXTILE TUBES ARE SECURE AND NOT SUSCEPTIBLE TO ROLLING OR RUPTURE. CONTRACTOR SHALL DETERMINE IF SHIMS OR OTHER MEASURES OF SECURING THE GEOTEXTILE TUBES IS WARRANTED.
- IF THE CONTRACTOR WISHES TO USE A PUMP HOSE GREATER THAN 8" THEN AN ALTERNATIVE METHOD OF CROSSING THE ROAD MUST BE UTILIZED. THE CONTRACTOR MAY INSTALL A TEMPORARY CULVERT OR TEMPORARY RAMP. THE ROAD MUST BE PASSABLE TO VEHICULAR TRAFFIC AT ALL TIMES. ALTERNATIVE MEASURES OF CROSSING THE ROAD ARE TO BE INSTALLED, MAINTAINED AND REMOVED AT THE CONTRACTORS EXPENSE.
- ALL TREES ARE TO REMAIN
- TEMPORARY STABILIZED CONSTRUCTION ACCESS FOR HAULING WILL BE NECESSARY IF TRUCKING OVER UNPAVED AREAS.
- TEMPORARY DITCH CHECKS SHALL BE APPLIED AT THE DIRECTION OF THE ENGINEER AND/OR SWCD AROUND MASTODON LAKE IN AREAS OF CONCENTRATED RUNOFF FROM STABILIZED AREAS AND CONSTRUCTION ACCESS POINTS



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 6/12/2024 9:08 AM
 FILE NAME: 191806-Detailed-Dewatering-Plan
 PLOT DRIVER: DWG To PDF.pc3
 PEN TABLE: ILDOT-Standard.ctb



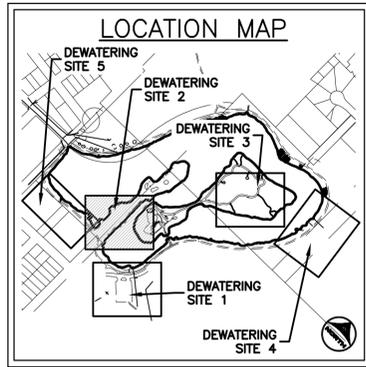
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PLOT SCALE = 1"=20'	CHECKED - AJ/LG	REVISED -
PLOT DATE = 6/12/2024	DATE - 05/24/2024	REVISED -

**CITY OF AURORA
MASTODON LAKE DREDGING PROJECT**

PROPOSED DEWATERING SITE LOCATION 1

SCALE: 1"=20' SHEET NO. 01 OF 01 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	10
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



ADDITIONAL DEWATERING LOCATIONS
MAY BE CONSTRUCTED BY THE
CONTRACTOR NORTH OF THE
CAUSEWAY WITH PRIOR APPROVAL
FROM THE CITY.

- NOTES:
- CONTRACTOR TO COMPLETE BENCH TESTING WITH THE SUPERNATE SAMPLES TO DEMONSTRATE THAT A 15MG/L TSS IS BEING MET FOR THE CHOSEN FLOCCULANT AND GEOTEXTILE BAG MATERIAL. DATA MUST BE SUBMITTED TO THE IEPA PRIOR TO USE.
 - CONTRACTOR TO PROVIDE MSDS DATA FOR PROPOSED FLOCCULANTS TO THE IEPA AND CITY FOR APPROVAL PRIOR TO USE.
 - CONTRACTOR TO REVIEW GROUND CONDITIONS FOR SLOPE AND OBSTACLES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE GEOTEXTILE TUBES ARE SECURE AND NOT SUSCEPTIBLE TO ROLLING OR RUPTURE. CONTRACTOR SHALL DETERMINE IF SHIMS OR OTHER MEASURES OF SECURING THE GEOTEXTILE TUBES IS WARRANTED.
 - ALL TREES ARE TO REMAIN.
 - TEMPORARY STABILIZED CONSTRUCTION ACCESS FOR HAULING WILL BE NECESSARY IF TRUCKING OVER UNPAVED AREAS.
 - TEMPORARY DITCH CHECKS SHALL BE APPLIED AT THE DIRECTION OF THE ENGINEER AND/OR SWCD AROUND MASTODON LAKE IN AREAS OF CONCENTRATED RUNOFF FROM STABILIZED AREAS AND CONSTRUCTION ACCESS POINTS



COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen.com
DATE PLOTTED: 6/12/2024 9:08 AM
FILE NAME: 191806-Detailed-Dewatering-Plan
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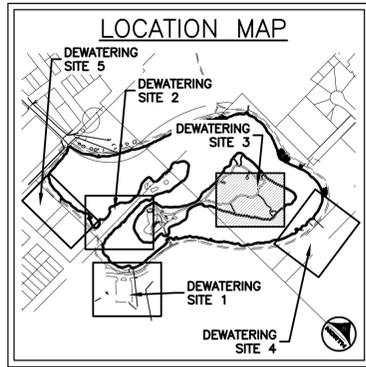


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PLOT SCALE = 1"=20'	CHECKED - AJ/LG	REVISED -
PLOT DATE = 6/12/2024	DATE - 05/24/2024	REVISED -

**CITY OF AURORA
MASTODON LAKE DREDGING PROJECT**

PROPOSED DEWATERING SITE LOCATION 2		
SCALE: 1"=20'	SHEET NO. 01 OF 01 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	11
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



NOTES:

- CONTRACTOR TO COMPLETE BENCH TESTING WITH THE SUPERNATE SAMPLES TO DEMONSTRATE THAT A 15MG/L TSS IS BEING MET FOR THE CHOSEN FLOCCULANT AND GEOTEXTILE BAG MATERIAL. DATA MUST BE SUBMITTED TO THE IEPA PRIOR TO USE.
- CONTRACTOR TO PROVIDE MSDS DATA FOR PROPOSED FLOCCULANTS TO THE IEPA AND CITY FOR APPROVAL PRIOR TO USE.
- CONTRACTOR TO REVIEW GROUND CONDITIONS FOR SLOPE AND OBSTACLES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE GEOTEXTILE TUBES ARE SECURE AND NOT SUSCEPTIBLE TO ROLLING OR RUPTURE. CONTRACTOR SHALL DETERMINE IF SHIMS OR OTHER MEASURES OF SECURING THE GEOTEXTILE TUBES IS WARRANTED.
- FILL AREAS ON THE ISLAND SHALL BE APPROVED BY THE CITY OR THE ENGINEER. RESTORATION OF FILL AREAS SHALL BE INCIDENTAL AND BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONSIST OF TURF GRASS SEED AND DS75 EROSION CONTROL BLANKET.
- ALL TREES ARE TO REMAIN
- TEMPORARY STABILIZED CONSTRUCTION ACCESS FOR HAULING WILL BE NECESSARY IF TRUCKING OVER UNPAVED AREAS.
- TEMPORARY DITCH CHECKS SHALL BE APPLIED AT THE DIRECTION OF THE ENGINEER AND/OR SWCD AROUND MASTODON LAKE IN AREAS OF CONCENTRATED RUNOFF FROM STABILIZED AREAS AND CONSTRUCTION ACCESS POINTS.



POTENTIAL FILL AREAS TO AVOID THE DRIP LINES OF THE TREES. AREAS TO BE RESTORED WITH TURF GRASS SEED (SEEDING TYPE 1B).
 SLOPES MAY NOT EXCEED 4:1 (H:V) IN PERMANENT STOCKPILE LOCATIONS.
 PERMANENT STOCKPILE LOCATIONS TO BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT

POTENTIAL GEOTEXTILE TUBE LAYOUT CONFIGURATION. CONTRACTOR TO DETERMINE FINAL LAYOUT AND GEO-TUBE DIMENSIONS.

DEWATERING CONTAINMENT AREA TO BE LINED WITH IMPERVIOUS LINER. PERIMETER BARRIER MUST BE CONSTRUCTED TO CONTAIN EFFLUENT FROM GEOTEXTILE TUBES AND DIRECT FLOW TO THE OUTLET POINT. PERIMETER BARRIER MAY BE CONSTRUCTED OF WATTLES, STRAW BALES OR OTHER APPROVED MATERIALS COVERED WITH AN IMPERVIOUS LINER.

PROPOSED DEWATERING SITE #3

EX. 100YR FLOODPLAIN LIMITS (TYP)

EX. EDGE OF WATER (ELEV=657.40) (TYP)

EX. SURVEYED WETLAND LIMITS (TYP)

EFFLUENT DISCHARGE POINT: MASTODON LAKE. EFFLUENT MUST BE SAMPLED PRIOR TO DISCHARGE TO MASTODON LAKE. CONTRACTOR TO STABILIZE THE OUTLET TO PREVENT SCOUR.

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 CLIENT: HRGreen
 DATE PLOTTED: 6/12/2024 9:09 AM
 FILE NAME: 191806-Detailed-Dewatering-Plan
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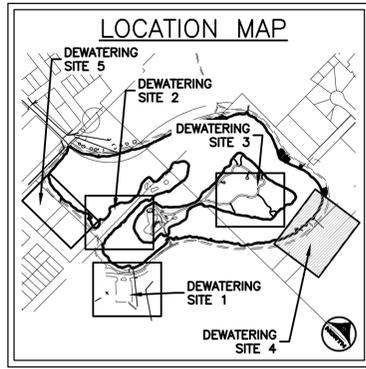


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PLOT DATE = 6/12/2024	DATE - 05/24/2024	REVISED -

CITY OF AURORA
MASTODON LAKE DREDGING PROJECT

PROPOSED DEWATERING SITE LOCATION 3		
SCALE: 1"=20'	SHEET NO. 01 OF 01 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	12
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



NOTES:

- CONTRACTOR TO COMPLETE BENCH TESTING WITH THE SUPERNATE SAMPLES TO DEMONSTRATE THAT A 15MG/L TSS IS BEING MET FOR THE CHOSEN FLOCCULANT AND GEOTEXTILE BAG MATERIAL. DATA MUST BE SUBMITTED TO THE IEPA PRIOR TO USE.
- CONTRACTOR TO PROVIDE MSDS DATA FOR PROPOSED FLOCCULANTS TO THE IEPA AND CITY FOR APPROVAL PRIOR TO USE.
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- FILL AREAS ON THE ISLAND SHALL BE APPROVED BY THE CITY OR THE ENGINEER. RESTORATION OF FILL AREAS SHALL BE INCIDENTAL AND BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONSIST OF TURF GRASS SEED AND DS75 EROSION CONTROL BLANKET.
- ALL TREES ARE TO REMAIN
- TEMPORARY STABILIZED CONSTRUCTION ACCESS FOR HAULING WILL BE NECESSARY IF TRUCKING OVER UNPAVED AREAS.
- TEMPORARY DITCH CHECKS SHALL BE APPLIED AT THE DIRECTION OF THE ENGINEER AND/OR SWCD AROUND MASTODON LAKE IN AREAS OF CONCENTRATED RUNOFF FROM STABILIZED AREAS AND CONSTRUCTION ACCESS POINTS



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 CLIENT: HRGreen.com
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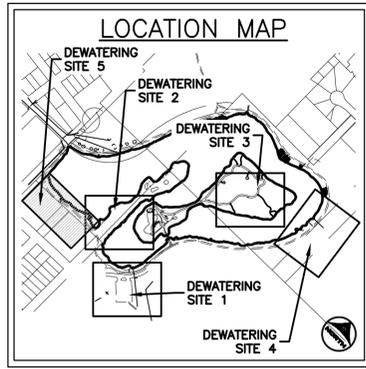
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PLOT DATE = 6/12/2024	DATE - 05/24/2024	REVISED -

CITY OF AURORA
 MASTODON LAKE DREDGING PROJECT

PROPOSED DEWATERING SITE LOCATION 4

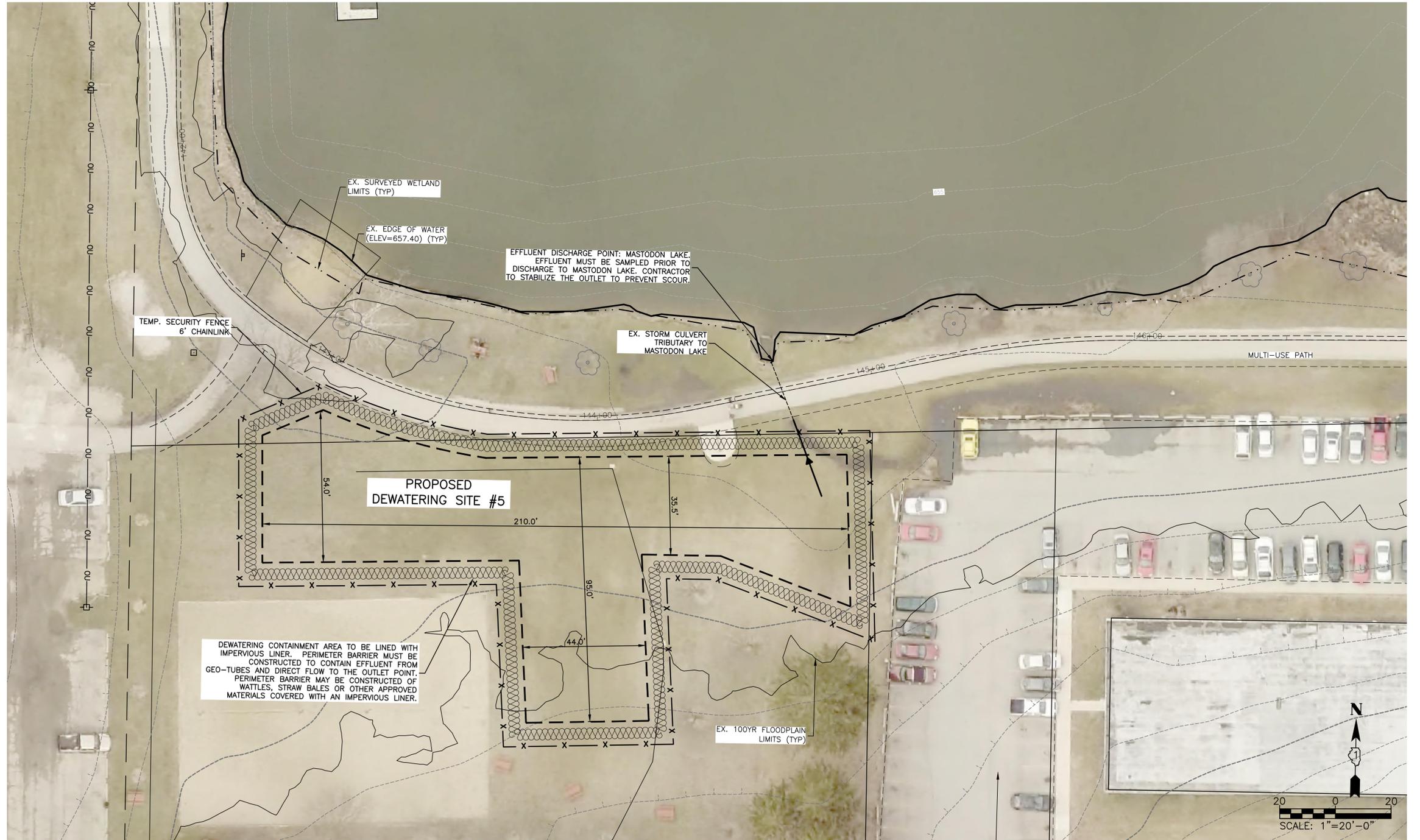
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	13
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



NOTES:

- CONTRACTOR TO COMPLETE BENCH TESTING WITH THE SUPERNATE SAMPLES TO DEMONSTRATE THAT A 15MG/L TSS IS BEING MET FOR THE CHOSEN FLOCCULANT AND GEOTEXTILE BAG MATERIAL. DATA MUST BE SUBMITTED TO THE IEPA PRIOR TO USE.
- CONTRACTOR TO PROVIDE MSDS DATA FOR PROPOSED FLOCCULANTS TO THE IEPA AND CITY FOR APPROVAL PRIOR TO USE.
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- FILL AREAS ON THE ISLAND SHALL BE APPROVED BY THE CITY OR THE ENGINEER. RESTORATION OF FILL AREAS SHALL BE INCIDENTAL AND BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONSIST OF TURF GRASS SEED AND DS75 EROSION CONTROL BLANKET.
- ALL TREES ARE TO REMAIN
- TEMPORARY STABILIZED CONSTRUCTION ACCESS FOR HAULING WILL BE NECESSARY IF TRUCKING OVER UNPAVED AREAS.
- TEMPORARY DITCH CHECKS SHALL BE APPLIED AT THE DIRECTION OF THE ENGINEER AND/OR SWCD AROUND MASTODON LAKE IN AREAS OF CONCENTRATED RUNOFF FROM STABILIZED AREAS AND CONSTRUCTION ACCESS POINTS



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 CLIENT: HRGreen.com
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**CITY OF AURORA
 MASTODON LAKE DREDGING PROJECT**

PROPOSED DEWATERING SITE LOCATION 5

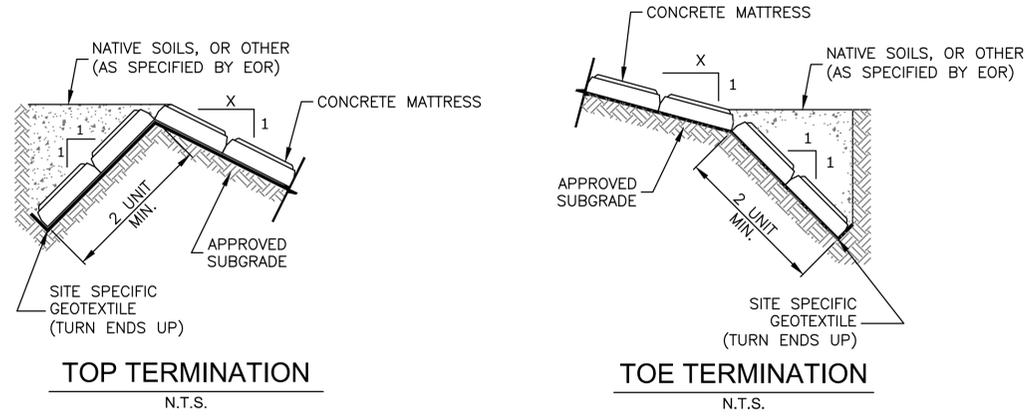
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	14
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**PRECAST BLOCK REVETMENT
MAT DETAIL**

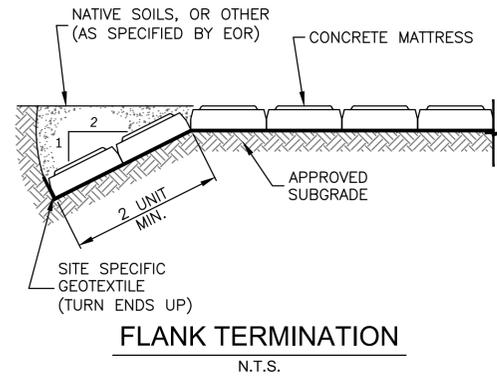
BLOCKS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS

- AREAS FOR MAT TO BE INSTALLED
 1. PROPOSED CANOE LAUNCH
 2. CAUSEWAY



TOP TERMINATION
N.T.S.

TOE TERMINATION
N.T.S.



FLANK TERMINATION
N.T.S.



EXAMPLE PHOTO - FLEXAMAT

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
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 PEN TABLE: SEC-Standard.ctb



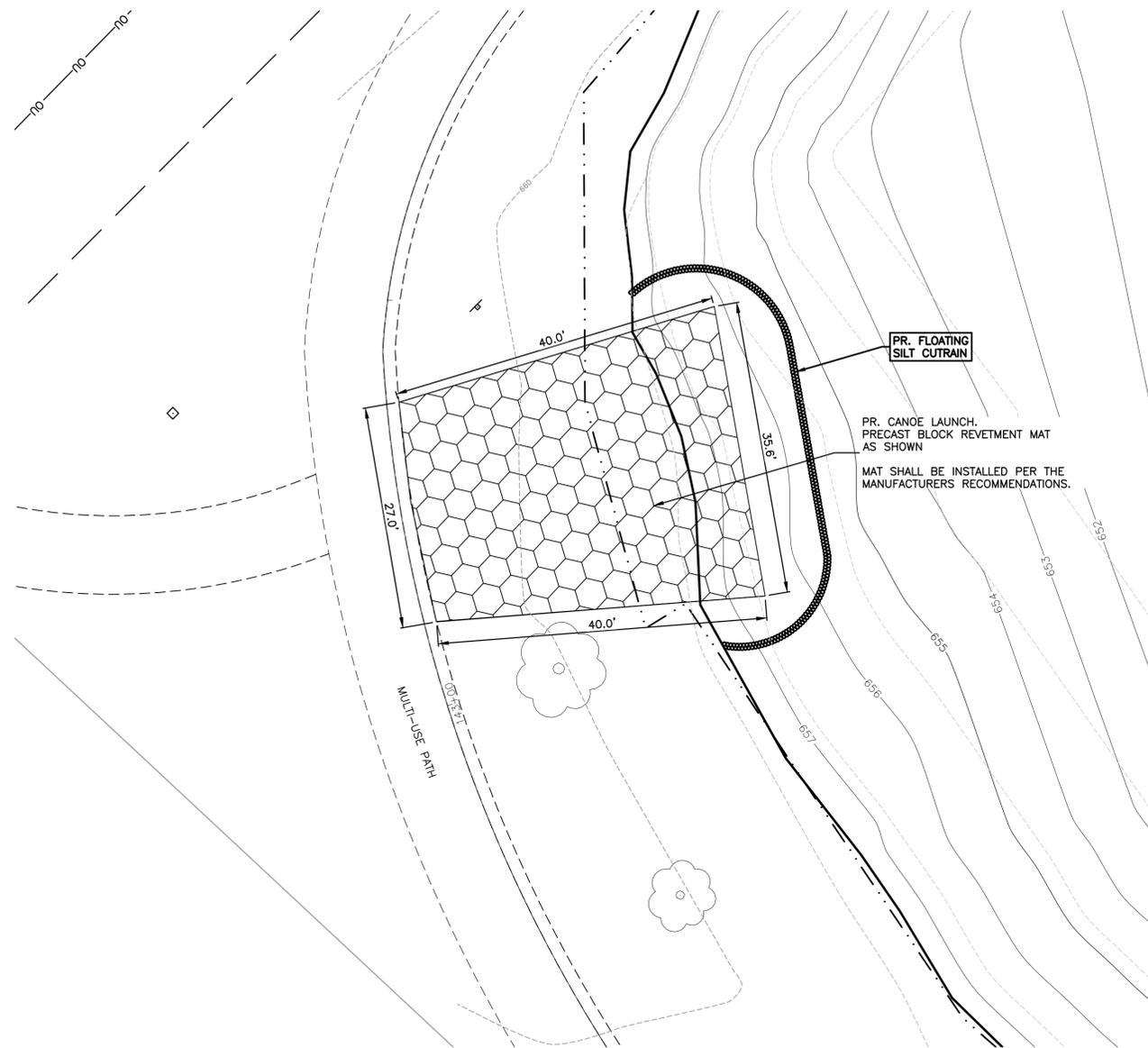
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CITY OF AURORA
MASTODON LAKE DREDGING PROJECT

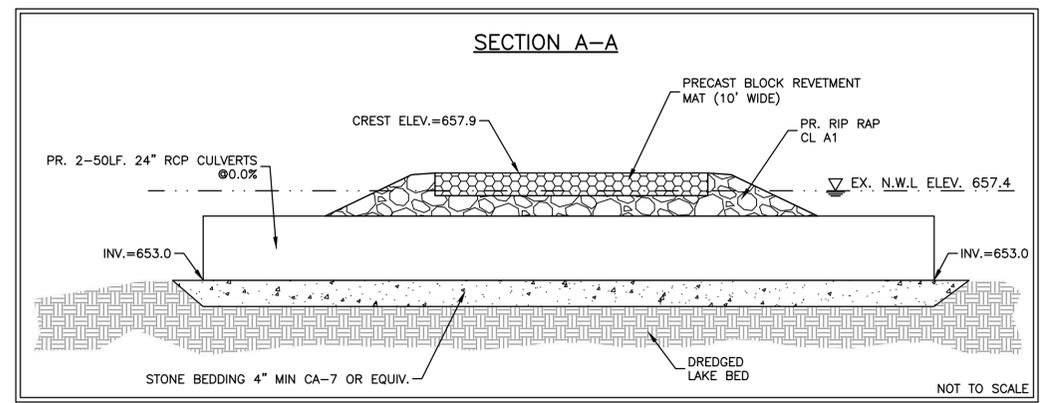
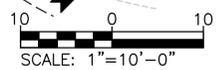
PRECAST BLOCK REVETMENT MAT PLAN
 SCALE: N.T.S. SHEET NO. 01 OF 01 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	15
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

1 - CANOE LAUNCH DETAILED PLAN



2 - CAUSEWAY DETAILED PLAN



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 6/12/2024 9:10 AM
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PLOT DATE = 6/12/2024	DATE - 10/05/2021	REVISED -

CITY OF AURORA
MASTODON LAKE DREDGING AND
SHORELINE RESTORATION PROJECT

CANOE LAUNCH AND CAUSEWAY DETAIL
 SCALE: 1"=40' SHEET NO. 01 OF 01 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	32	16
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

CONTROL MEASURE GROUP	CONTROL MEASURE	KEY	APPL.	CONTROL MEASURE CHARACTERISTICS	TEMP.	PERMIT
VEGETATIVE SOIL COVER	TEMPORARY SEEDING	(TS)	X	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	X	
	PERMANENT SEEDING	(PS)	X	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER, MAY BE PART OF FINAL LANDSCAPE PLAN.		X
	DORMANT SEEDING	(DS)	X	SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.	X	
	SODDING	(SO)		QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGEWAYS WHERE SEEDING MAY BE DIFFICULT.		
	GROUND COVER	(GC)	X	PROVIDES GROUND COVER, SHRUBS AND TREES IN ADDITION TO PERMANENT VEGETATION. MAY BE USED AS PART OF A FINAL LANDSCAPE PLAN ALONG WITH SHRUBS AND TREES.		X
	RAIN GARDEN	(RG)		PROVIDES A TYPE OF FUNCTIONAL LANDSCAPING FEATURE DESIGNED TO CONTROL STORMWATER RUNOFF. SEE LANDSCAPING PLANS FOR DETAILS.		
NON VEGETATIVE SOIL COVER	MULCHING	(M)	X	ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. CONTROLS UNWANTED VEGETATION AND PRESERVES MOISTURE. PROVIDES COVER WHERE VEGETATION CANNOT BE ESTABLISHED.	X	
	AGGREGATE COVER	(AG)		PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE.		
	PAVING	(P)	X	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.		X
DIVERSIONS	EROSION BLANKET	(EB)	X	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING TIME OF YEAR IS INAPPROPRIATE AND IN SLOPED AREAS.	X	
	RIDGE DIVERSION	(RD)		TYPICALLY USED ABOVE SLOPES. USED WHEN AN EXCESS OF SOIL IS AVAILABLE.		
	CHANNEL DIVERSION	(CD)		TYPICALLY USED AT TOP OR BASE OF SLOPES. USED WHEN EXCESS SOIL IS NOT AVAILABLE.		
	COMBINATION DIVERSION	(CBD)		TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.		
WATERWAYS	CURB AND GUTTER	(CG)		SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.		
	BENCHES	(B)		SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SOIL STABILITY.		
	BARE CHANNEL	(BC)	X	PROVIDES MEANS OF CONVEYING RUNOFF TO DESIRED LOCATION. MAY BE USED TO DRAIN DEPRESSIONAL AREAS. ONLY APPLICABLE WHEN VELOCITY OF FLOW IS VERY LOW.	X	
ENCLOSED DRAINAGE	VEGETATIVE CHANNEL	(VC)	X	PROVIDES ADDED STABILITY TO CHANNEL USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.	X	
	LINED CHANNEL	(LC)	X	USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.	X	
	DITCH CHECKS	(DC)	X	PROVIDES AN ENERGY DISSIPATOR ALONG A LENGTHY CHANNEL TO REDUCE VELOCITY OF STORMWATER.	X	
SPILLWAYS	STORM SEWER	(ST)	X	CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.	X	
	UNDERDRAIN	(UD)		USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SOIL STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DRAIN SEDIMENT BASINS.		
	STRAIGHT PIPE SPILLWAY	(SS)		USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER.		
OUTLETS	DROP INLET PIPE SPILLWAY	(DIS)		SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.		
	WEIR SPILLWAY	(W)		USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES.		
	BOX INLET WEIR SPILLWAY	(BS)		SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.		
SEDIMENT BASINS	LINED APRON	(LA)		PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES.		
	STONE RIP RAP	(RR)	X	USED AS AN ENERGY DISSIPATOR AT OUTLET STRUCTURES TO REDUCE VELOCITIES.	X	
	EMBANKMENT SEDIMENT BASIN	(ES)		USED WHERE TOPOGRAPHY LENDS ITSELF TO CONSTRUCTING A DAM AND EARTH FILL IS AVAILABLE.		
SEDIMENT FILTERS	EXCAVATED SEDIMENT BASIN	(XS)		USED WHERE EMBANKMENT COULD CAUSE A HAZARD DOWNSTREAM IN CASE OF FAILURE AND WHEN EXCESS EARTH FILL IS NOT AVAILABLE.		
	COMBINATION SEDIMENT BASIN	(SB)	X	USED WHEN TOPOGRAPHY IS SUITABLE BUT ADDITIONAL CAPACITY IS NEEDED.	X	
	BARRIER FILTER (SILT FENCE)	(BF)	X	A TEMPORARY BARRIER OF ENTRENCHED GEOTEXTILE FABRIC (FILTER FABRIC) STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS USED TO INTERCEPT SEDIMENT LADEN RUNOFF FROM SMALL DRAINAGE AREAS OF DISTURBED SOIL.	X	
MUD AND DUST CONTROL	VEGETATIVE FILTER	(VF)		USED ALONG DRAINAGEWAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.		
	INLET PROTECTION	(IP)	X	USED FOR FILTERING SEDIMENT WITHIN GRASS AREAS BEFORE WATER ENTERS THE STORM SEWER.	X	
	FILTER BASKET	(FB)	X	USED FOR FILTERING SEDIMENT WITHIN THE ROADWAY BEFORE ENTERING THE STORM SEWER.	X	
MISC.	STABILIZED CONST. ENTRANCE	(SE)	X	A STABILIZED PAD OF AGGREGATE UNDERLAIN WITH FILTER FABRIC LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING AREA TO PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.	X	
	CONSTRUCTION ROAD STABILIZATION	(CRS)		THE STABILIZATION OF TEMPORARY CONSTRUCTION ACCESS ROUTES, SUBDIVISION ROADS, ON-SITE VEHICLE TRANSPORTATION ROUTES, AND CONSTRUCTION PARKING AREAS WITH STONE IMMEDIATELY AFTER GRADING TO PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.		
DUST CONTROL	DUST AND TRAFFIC CONTROL	(DT)	X	CONTROL OF DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.	X	
	EXPLORATORY TRENCH	(ET)		EXPLORATORY TRENCH EXCAVATION FOR EXISTING UTILITIES.		
MISC.	CONCRETE WASHOUT	(WO)		PREVENTS THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM CONCRETE WASTE IN A DESIGNATED WASHOUT AREA (CONCRETE WASHOUT BMP)		

SEEDING / SODDING CHART

STABILIZATION TYPE	CONTRACTOR RESPONSIBILITY			PER I.D.O.T. SPECIFICATIONS APR. 1 - JUNE 15				CONTRACTOR RESPONSIBILITY			PER I.D.O.T. SPECIFICATIONS AUG. 1 - NOV. 1			CONTRACTOR RESPONSIBILITY		
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.				
* DORMANT SEEDING (135lb/Ac)																
* TEMPORARY SEEDING (100lb/Ac)																
* PERMANENT SEEDING (See IDOT Specs.)																
* MULCHING (2 Tons/Ac)	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
* SODDING (See IDOT Specs.)																

* SEE I.D.O.T. SPECIFICATIONS FOR INSTALLATION AND APPLICATION REQUIREMENTS
 ** SUPPLEMENTAL WATERING MAY BE REQUIRED. (SEE I.D.O.T. SPECIFICATIONS FOR REQUIREMENTS)

EROSION CONTROL NOTES:

No land disturbing activities shall not commence until approval to do so has been received by governing authorities, in addition to, no land clearing or grading shall begin until all perimeter erosion and sediment control measures have been installed. (Including storm water pollution prevention plan per the development criteria.)

The general contractor shall strictly adhere to the storm water pollution prevention plan (SWPPP) during construction operations.

All topsoil shall be stripped prior to filling.

All exposed areas shall be seeded as specified within 14 days of final grading.

Should construction stop for longer than 14 days, the site shall be temp. seeded.

Sediment and erosion control measures shall be inspected at least once every seven (7) days and within 24 hours of a rain exceeding 0.5 inches during a 24-hour period or more frequently if required by governing NPDES general permit. All maintenance required by inspection shall commence within 24 hours and be completed within 48 hours of report.

This plan shall not be considered all inclusive as the general contractor shall take all necessary precautions to prevent soil sediment from leaving the site.

General contractor shall comply with all state and local ordinances that apply.

Additional erosion and sediment control measures will be installed if deemed necessary by an on site inspection.

If installation of storm drainage system should be interrupted by weather or nightfall, the pipe ends shall be covered with filter fabric.

General contractor shall be responsible to take whatever means necessary to establish permanent soil stabilization.

All sedimentation and erosion control regulations shall be adhered to per the City of Aurora's requirements

All erosion and sediment control practices shall be maintained and repaired as needed to ensure effective performance of the required erosion control measures.

All erosion and sediment control work shall conform to the I.D.O.T. Manual for standards and procedures for erosion control.

All construction will adhere to the requirements set forth in the IEPA's new construction site activities national pollutant discharge elimination system (npdes) storm water permit.

All roadways shall be cleaned at the end of each construction day.

All disturbed areas shall be stabilized within 7 days of active disturbance.

All erosion control measures shall be disposed of within 30 days of final stabilization of the site.

Ground cover for 5:1 slopes or greater shall be established as soon as possible.

All disturbed areas to be restored w/ 4' topsoil respread & seeding/sodding unless otherwise noted on plans

Silt filter fabric shall be placed between frame and grate until vegetation is established. (see detail)

Utilize excelsior blanket on all slopes of 5:1 or greater.

*Seeding per I.D.O.T. Manual, section 251, standard specifications for road and bridge construction, (latest edition) see plans for seed and blanket requirements.

*Mulch/hydrused per I.D.O.T. Manual, section 251, standard specifications for road and bridge construction, (latest edition)

*Mulch/hydrused method 3 shall be used in all turf grass areas.

No dimensions shall be assumed by scaling.

No known drain tiles are present on the proposed development, if tiles are encountered during construction please notify the engineer immediately.

Part of the proposed project is located within a flood hazard 10-100yr area a flood hazard area

Excess material shall be placed at specified location unless otherwise specified by owner and approved by engineer for use of lot grading. Stockpiles shall be surrounded with filter fence and shall be seeded per I.D.O.T. Manual (latest addition) (temporary) if left more than 14 working days.

General contractor shall notify all utility companies having underground utilities on site or in right-of-way prior to excavation. Contractor shall contact utility locating company and locate all utilities prior to grading start.

Stockpiles of soil and other fill areas to remain in place for more than three days shall be furnished with erosion and sediment control measures (i.e. perimeter silt fence).

Temporary erosion control may be required during hauling and shall be installed per the direction of the engineer and/or SWCD.

PHASING NOTES:

SEQUENCE OF MAJOR ACTIVITIES - AS APPLICABLE TO PROJECT

The Contractor will be responsible for implementing the following erosion control and storm water management control measures. The Contractor may designate these tasks to certain subcontractors as he or she sees fit, but the ultimate responsibility for implementing these controls and ensuring their proper functioning remains with the Contractor. The order of activities will be as follows (refer to the Erosion and Sediment Control Plan Sheet contained in this SWPPP for details and refer to the Suggested Phasing Plan in the design drawings for construction sequencing):

- A pre-construction meeting shall be held by the Site Project Manager, and the Operator's Engineer prior to land disturbing activities.
- Prior to disturbing the site install temporary ditch checks, perimeter silt fences and inlet protection to existing storm infrastructure in the locations shown on the Plan sheets.
- Implement erosion control measures around the culverts and channels to prevent sedimentation from infiltrating into the storm water system.
- Begin clearing and grubbing operations if applicable. Clearing and grubbing shall be done only in areas where grading and shaping or riprap placement will be performed.
- Commence work shown on the plans.
- Disturbed areas of the site where Construction Activity has ceased for more than 7 days shall be temporarily seeded and watered.
- Install inlet / outlet protection around the constructed culverts and riprap aprons to prevent sedimentation from infiltrating into the culverts and aprons as shown on the Plan sheets.
- Temporary seed all fill slopes around perimeter of project. (if applicable).
- Carry out final final grading bank stabilization measures with seeding and rolled erosion control products where shown on the Plan sheets.
- Remove inlet protection around culverts, inlets and manholes when surfaces are stabilized.
- Remove temporary construction exits

FAILURE TO COMPLY:

In the event a notice of violation is issued on this project, any and all fines will be the sole responsibility of the contractor. The owner, owner's representative, or other owner's agents will not participate in any payment or reimbursement for fines and will not authorize time extensions due to delays in project progress for work stoppage required to remedy the violations.

SPECIFICATIONS AND GENERAL NOTES:

NOTES:
 This plan has been prepared to comply with the provisions of the NPDES Permit Number issued by the Illinois Environmental Protection Agency for Stormwater Discharges from Construction Site Activities.

- Site Description.
 - The Overall project area is tributary to the Fox River.
 - The following is a description of the construction activity which is the subject of this plan: The proposed improvements consists of construction of hydraulic dredging, dewatering of dredged materials, shoreline stabilization, earthwork, HMA patching, installation of electrical services for aquatics mixing and landscaping with native vegetation. The construction activities for site improvements will include: site clearing, grubbing, mass grading, pavement construction, installation of utilities including storm sewers, soil erosion and sedimentation control measures, as a minimum.
 - The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site such as grubbing, excavation, and grading:
 The sequence of the construction activities may be as follows:
 See Sequence of major activities on this sheet.
 - The total area of the construction site is estimated to be 2.1± acres.
 The total area if the site that is estimated to be disturbed by excavation, grading, or other activities, is 2.1± acres.
- Controls.

This section of the plan addresses the various controls that will be implemented for each of the major construction activities described in 1.b. above. For each measure discussed, the contractor will be responsible for its implementation as indicated. Each such contractor has signed the required certification on forms which are attached to, and are a part of, this plan.

 - Erosion and Sediment Controls.
 - STABILIZATION PRACTICES. Provided below is a description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Except as provided in 2.a. (i) (A) and 2.b. stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portions of the site where construction activity will not occur for a period of 21 or more calendar days.
 - Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.
 The following interim and permanent stabilization practices, as a minimum will be implemented to stabilize the disturbed area of the site:

1 Temporary Seeding	4 Barrier filter	7 Vegetative filter
2 Permanent seeding	5 Inlet protection	8 Stabilized construction entrance
3 Erosion Blanket	6 Outlet protection	9 Dust & Traffic Control
 - STRUCTURAL PRACTICES. Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. The installation of these devices may be subject to Section 404 of the Clean Water Act.
 - Storm sewer system
 - Vegetated drainage swales
 - Permanent seeding
 - Outlet protection
 - Filter fabric
 - Inlet protection
 - Erosion Control. It shall be the Contractor's responsibility to provide adequate erosion control on the job site. The following erosion control sequence shall be adhered to:
 See Sequence of major activities on this sheet.
 Any siltation of conduits, structures, or ditches shall be cleaned and maintained by the Contractor, on a weekly basis, until the seeding has taken hold. All washouts, gullies, etc. will be regressed and reseeded by the Contractor, at the Contractor's expense.
 The Contractor's responsibility for erosion control shall extend throughout the construction process. The Contractor shall be responsible for cleanup of paved surfaces within and adjacent to the project.
 All erosion control practices shall be in compliance with the latest revision of the "Standard Specifications for Road and Bridge Construction," by the Illinois Department of Transportation and with "Standards and Specifications for Soil Erosion and Sedimentation Control" as published by the Illinois Environmental Protection Agency.
 If a topsoil stockpile location is provided and approved by the County, Contractor shall establish erosion control measures for the stockpile if it is to remain in place for more than three days. In addition, barrier filter fence shall enclose topsoil stockpile location with exception of truck access during construction hours.
 Temporary erosion control may be required during hauling and shall be installed per the direction of the engineer and/or SWCD.
 - Stormwater Management.
 - Provided below is a description of measures that will be installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.
 The practices selected for implementation were determined on the basis of the technical guidance contained in IEPA's Standard Specifications for Soil Erosion and Sedimentation Control, and for ordinances listed in the Specifications.
 The stormwater pollutant control measures shall include:
 - Silt filter fence
 - Drainage swales
 - Storm sewers
 - Rip-rap outlet protection
 - Straw bales inlet protection
 - Retention/Detention ponds
- Other Controls.
 - Waste Disposal. The solid waste materials including trash, construction debris, excess construction materials, machinery, tools and other items will be collected and disposed off-site by the contractor. The contractor is responsible to acquire any permit required for such disposal. Burning on the site will not be permitted. No solid materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.
 - The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

The sanitary sewage will be discharged to the proposed sanitary sewer constructed per IEPA and local standards.

 - Approved State or Local Plans.

The management practices, controls and other provisions contained in this plan are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Standards and Specifications for Soil Erosion and Sediment Control (Latest revision), Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Plan, and the Municipal Subdivision Ordinance. Requirements specified in sediment and erosion control site plans or site permits or stormwater management or site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharge under this permit, incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.
 - Maintenance.

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, vegetation, erosion and sediment control measures and other protective measures identified in this plan and Standard Specifications.

Stabilized construction entrance: The entrance shall be maintained to prevent tracking of sediment onto public streets. This will be done by top dressing with additional stones, remove and replace top layer of stones or washing the entrance. The sediment washed on the public right-of-way will be removed immediately.

CONTRACTOR'S AND SUBCONTRACTOR'S CERTIFICATE

I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

CONTRACTOR'S PRINTED NAME AND SIGNATURE _____ CERTIFICATION DATE _____

CONTRACTOR TITLE _____ TELEPHONE NUMBER _____

CONTRACTOR COMPANY NAME AND ADDRESS _____

SUBCONTRACTOR'S NAME AND SIGNATURE _____ CERTIFICATION DATE _____

SUBCONTRACTOR'S TITLE _____ TELEPHONE NUMBER _____

SUBCONTRACTOR'S COMPANY NAME AND ADDRESS _____

SITE ADDRESS _____

IEPA-ILR10 PERMIT # _____

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen
 CLIENT: HRGreen
 DATE PLOTTED: 6/12/2024 9:10 AM
 FILE NAME: 191806-Details
 PLOT DRIVER: DWG TO PDF.pc3
 PEN TABLE: SEC-Standard.ctb



USER NAME = KJENKINS	DESIGNED - LG	REVISED -
FILE NAME = 191806-Details	DRAWN - MPL	REVISED -
PLOT SCALE = N.T.S.	CHECKED - AJ/LG	REVISED -
PLOT DATE = 6/12/2024	DATE - 05/24/2024	REVISED -

**CITY OF AURORA
 MASTODON LAKE DREDGING PROJECT**

EROSION CONTROL SPECIFICATIONS AND NOTES

SCALE: N.T.S. SHEET NO. 01 OF 01 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	17
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

UNITED STATES ARMY CORPS OF ENGINEERS NOTES:

- EARTHEN COFFERDAMS OR OTHER PRACTICES THAT WOULD RESULT IN A RELEASE OF SEDIMENT INTO WATERS OF THE U.S. ARE NOT AUTHORIZED FOR USE. COFFERDAMS SHALL BE CONSTRUCTED OF NON-ERODIBLE MATERIALS ONLY. ACCEPTABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO: PRE-FABRICATED RIGID COFFERDAMS, SHEET PILING, INFLATABLE BLADDERS, SANDBAGS AND FABRIC-LINED BASINS. 1. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS.
- LOW FLOW CONDITIONS ARE FLOW AT OR BELOW THE NORMAL WATER ELEVATION.
- WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIP RAP AND GEOTEXTILE FABRIC, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
- WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF THE MATERIALS NECESSARY FOR THE CONSTRUCTION OF THE COFFERDAM. THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CAN NOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
- IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.
- DURING DEWATERING OF THE COFFERED AREA, ALL WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.
- THE PORTION OF THE SIDE SLOPE THAT IS ABOVE THE OBSERVED WATER ELEVATION SHALL BE STABILIZED AS SPECIFIED IN THE PLANS PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE AND TOE OF SLOPE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.

CITY STORMWATER PERMIT REQUIREMENTS:

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PREFORMED.
- SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.
- NATIVE SEED MIXTURES SHALL INCLUDE RAPID-GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION.
- OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION.
- SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.
- STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE, OR TEMPORARY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NO LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN THE AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED AS INSTANCES WHEN THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE AND IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.
- DISTURBANCE OF STEEPS SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKING IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR EQUIVALENT CONTROL MEASURE.
- PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.
- THE DRAINAGE SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS. CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES). THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.

- STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY.
- EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO:
 - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER.
 - MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORM WATER.
 - ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITION OF ALL
- CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.
- A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURES) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION-SITE OF A MAJOR DEVELOPMENT TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET ALLEY, OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT OF WAY, STREET, ALLEY OR PARKING AREA SHALL BE SCRAPED OR STREET CLEANED AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.
- DRAIN TILE SYSTEMS DISTURBED DURING DEVELOPMENT MUST BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE UNLESS THE APPROVED ENGINEERING PLANS INDICATE HOW THE DRAIN TILE SYSTEM IS TO BE CONNECTED TO THE PROPOSED STORM WATER MANAGEMENT SYSTEM.
- ALL ABANDONED DRAIN TILES SHALL BE REMOVED IN THEIR ENTIRETY.
- DRAIN TILES WITHIN THE DISTURBED AREA OF THE DEVELOPMENT SHALL BE REPLACED, BYPASSED AROUND THE DEVELOPMENT OR INTERCEPTED AND CONNECTED TO THE DRAINAGE SYSTEM FOR THE DEVELOPMENT. THE SIZE OF THE REPLACED OR BYPASSED DRAIN TILE SHALL BE EQUIVALENT TO THE EXISTING DRAIN TILE.
- IN BUFFERS AND WETLANDS, THE EXCAVATED AREAS SHALL BE BACKFILLED WITH NATIVE SOIL IN THE SAME STRATIFICATION IN WHICH THE SOIL WAS REMOVED.
- THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENTATION CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL PRACTICES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION PRACTICES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

STANDARD NOTES:

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL LATEST EDITION.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION.
- ALL DEWATERING OPERATIONS MUST FOLLOW THE ILLINOIS URBAN MANUAL PRACTICE STANDARD 813. DURING DEWATERING OPERATIONS, WATER WILL BE FILTERED OR PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORM WATER STRUCTURES IS PROHIBITED.
- IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- BACKUP PRACTICES AND HIGHLIGHTED QUANTITIES OF BEST MANAGEMENT PRACTICES (BMPS) OUTLINED IN THIS PLAN SHALL BE KEPT ON-SITE TO IMPLEMENT IMMEDIATE CORRECTIVE ACTIONS FOLLOWING ANY INSTANCE OF NON-COMPLIANCE.
- THE LOCAL WEATHER PROJECTIONS WILL BE CONSIDERED WHEN IMPLEMENTING THE WEEKLY CONSTRUCTION PLANS.
- ALL TRAFFIC GOING IN AND OUT OF THE CONSTRUCTION SITE SHALL BE RESTRICTED TO STABILIZED CONSTRUCTION ENTRANCES.
- ANY INLET FOUND WITHIN 50' OF A CONSTRUCTION ENTRANCE SHALL HAVE PROTECTION MECHANISMS IN PLACE.
- ALL DISTURBED GROUND DIRECTLY UPLAND OF JURISDICTIONAL AREAS SHALL RECEIVE ADEQUATE PROTECTION MEASURES AT THE CONCLUSION OF EACH WORK DAY.
- ALL DEWATERING OPERATIONS SHALL, AT MINIMUM, FOLLOW ILLINOIS URBAN MANUAL PRACTICE STANDARD 813.

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 6/12/2024 9:10 AM
 CLIENT: 191806-Details
 FILE NAME: 191806-Details
 PLOT DRIVER: DWG To PDF.pc3
 PEN TABLE: SEC-Standard.ctb

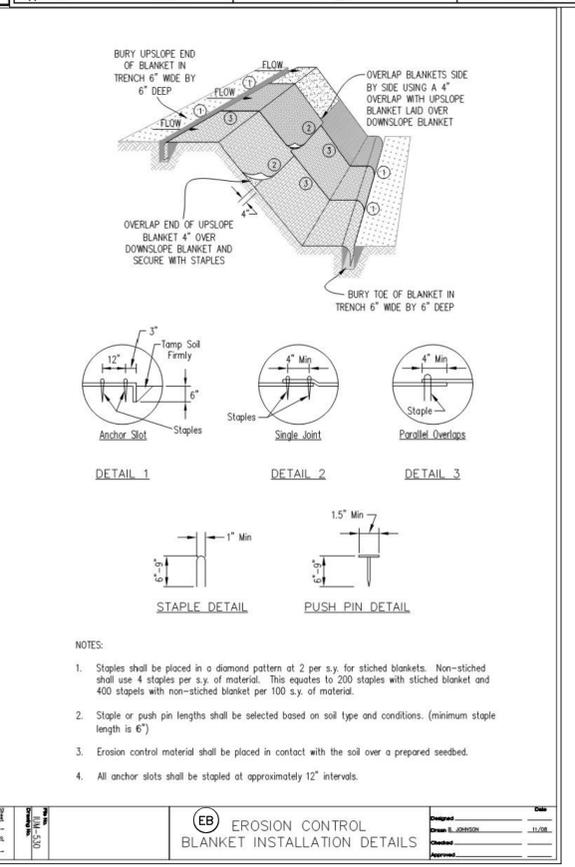
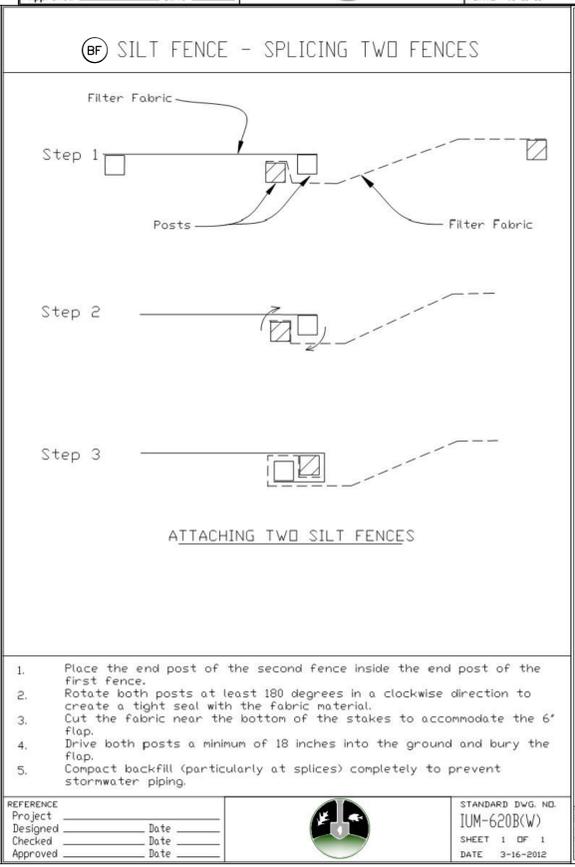
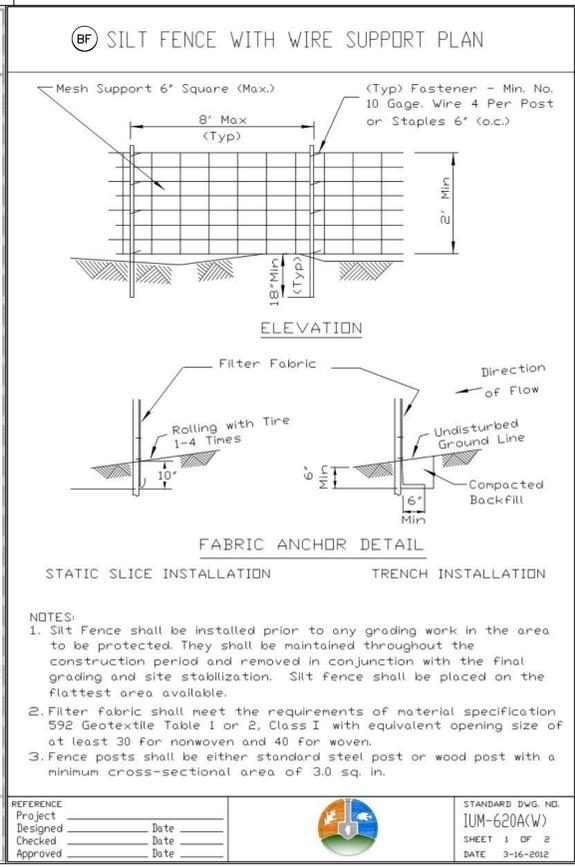
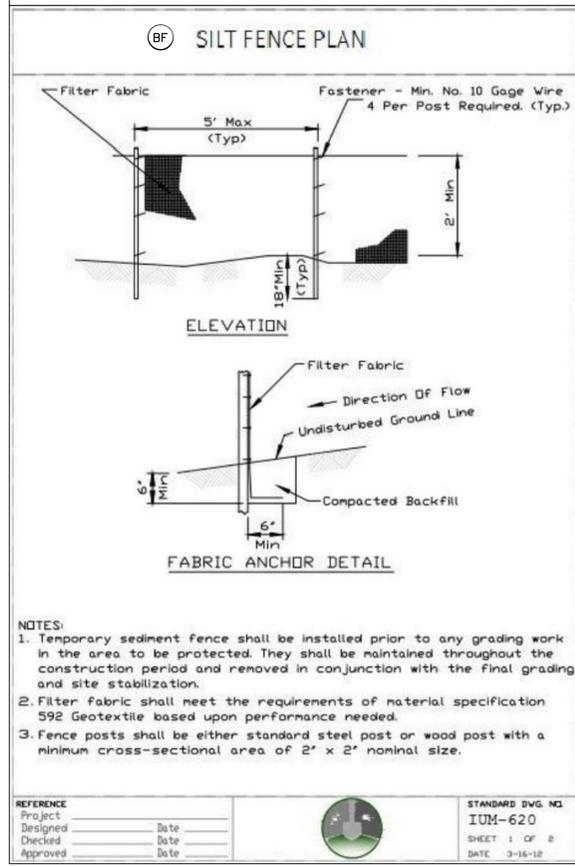
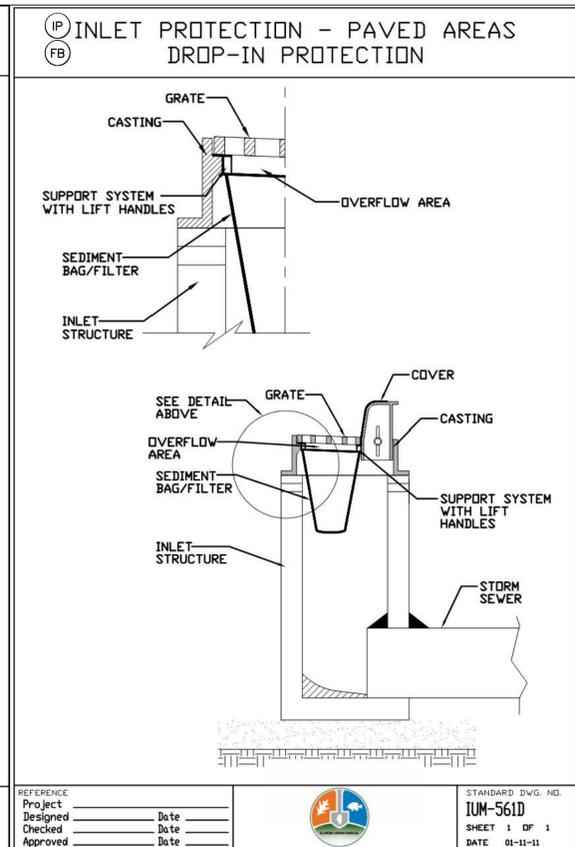
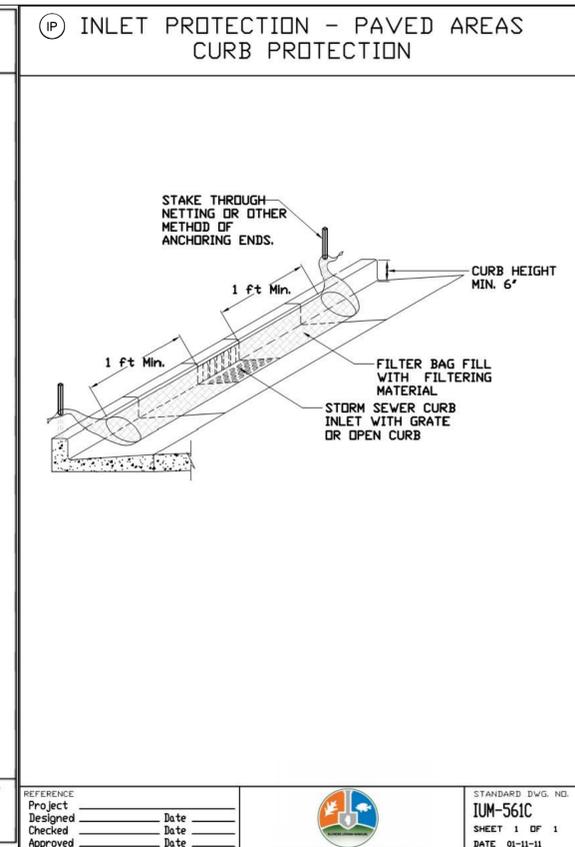
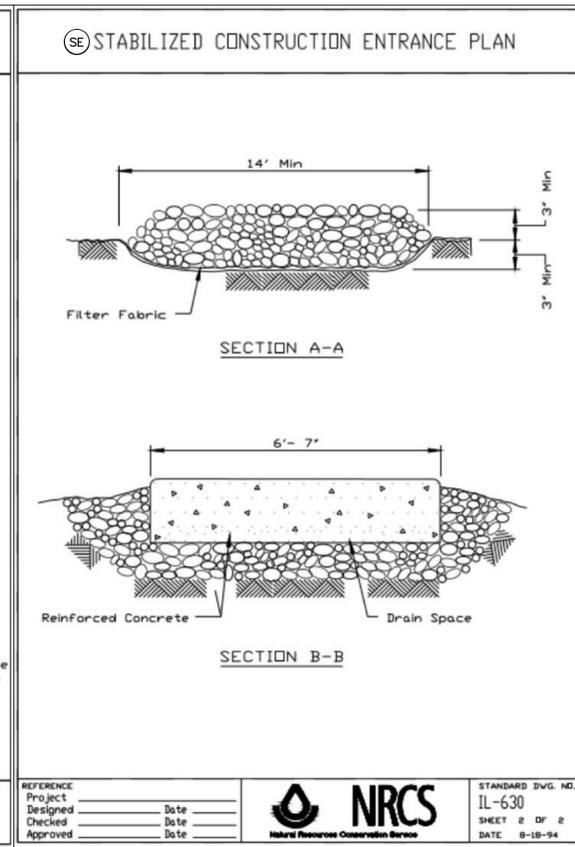
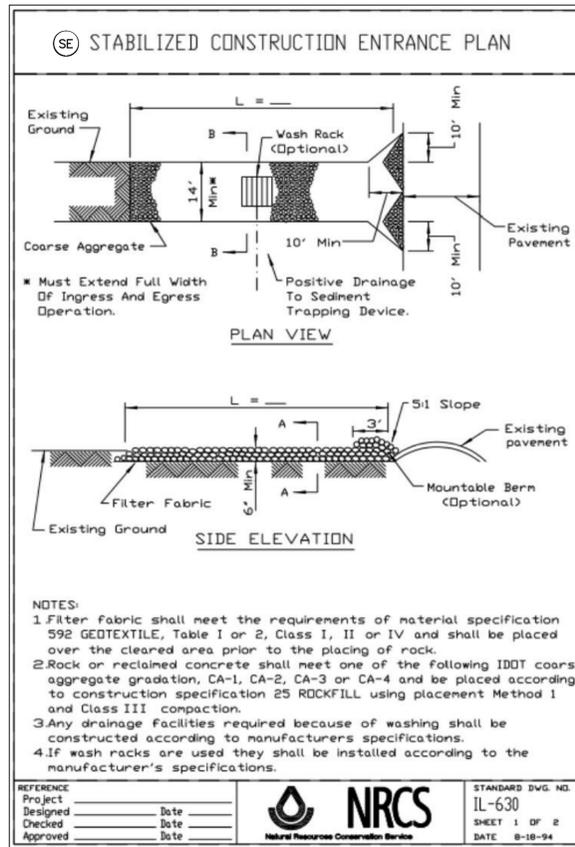


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CITY OF AURORA
MASTODON LAKE DREDGING PROJECT

EROSION CONTROL NOTES	
SCALE: N.T.S.	SHEET NO. 01 OF 04 SHEETS
STA. _____	TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	18
CONTRACT NO. _____				
ILLINOIS FED. AID PROJECT				



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: _____
 CLIENT: _____
 DATE PLOTTED: 6/12/2024 9:10 AM
 FILE NAME: 191806-Details
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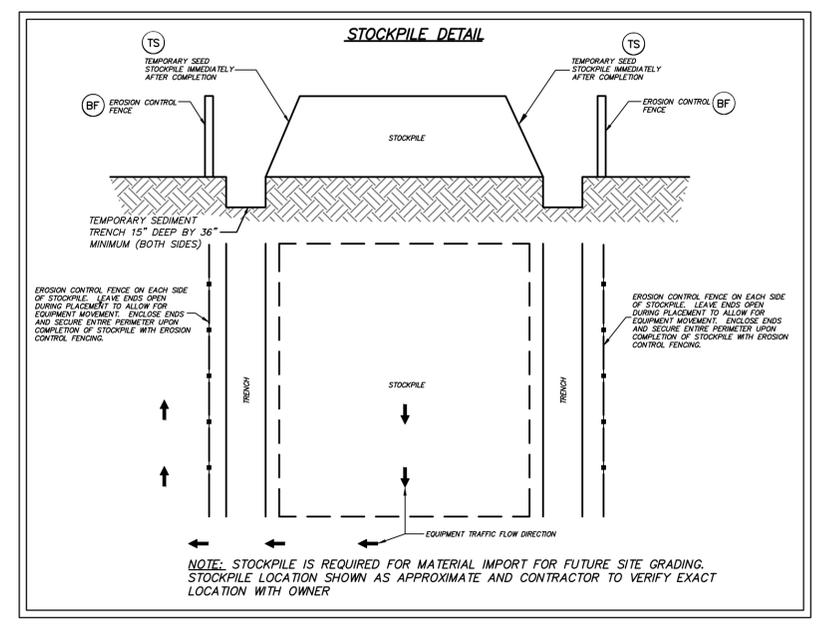
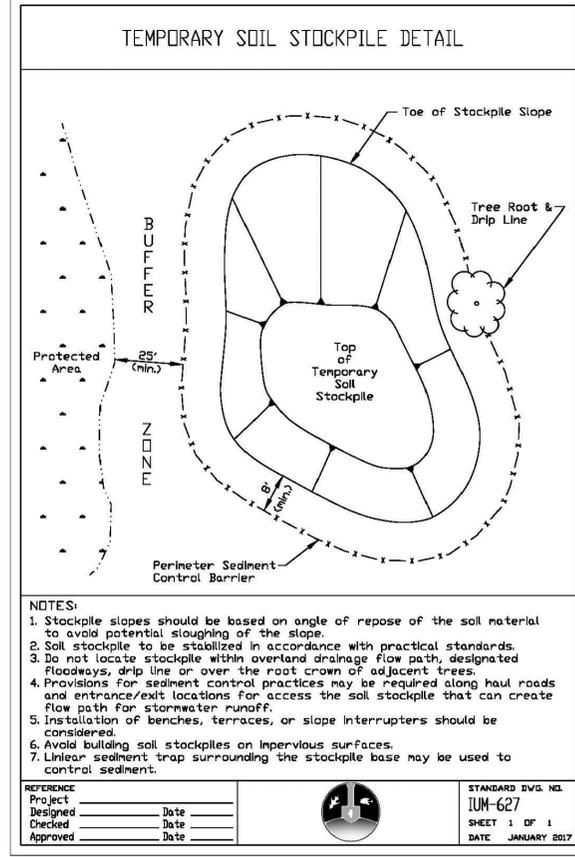
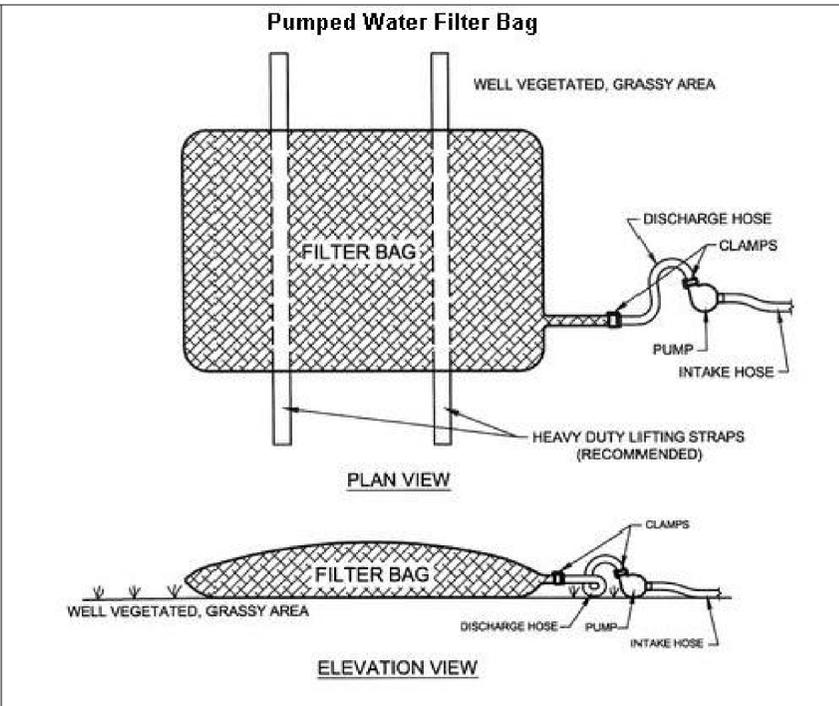
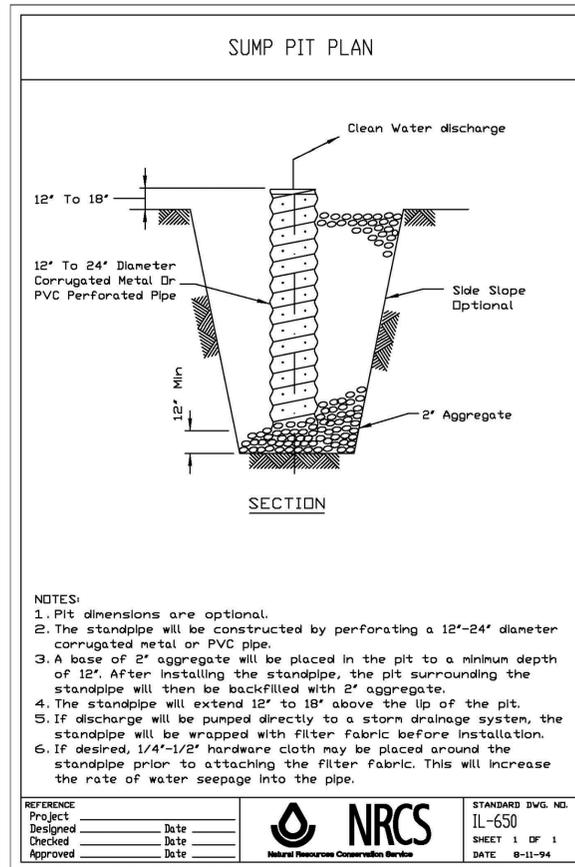
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PLOT DATE = 6/12/2024	DATE - 05/24/2024	REVISED -

**CITY OF AURORA
 MASTODON LAKE DREDGING PROJECT**

EROSION CONTROL DETAILS

SCALE: N.T.S. SHEET NO. 01 OF 01 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	19
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 CLIENT: HRGreen.com
 DATE PLOTTED: 6/12/2024 9:11 AM
 FILE NAME: 191806-Details
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 PEN TABLE: SEC-Standard.ctb



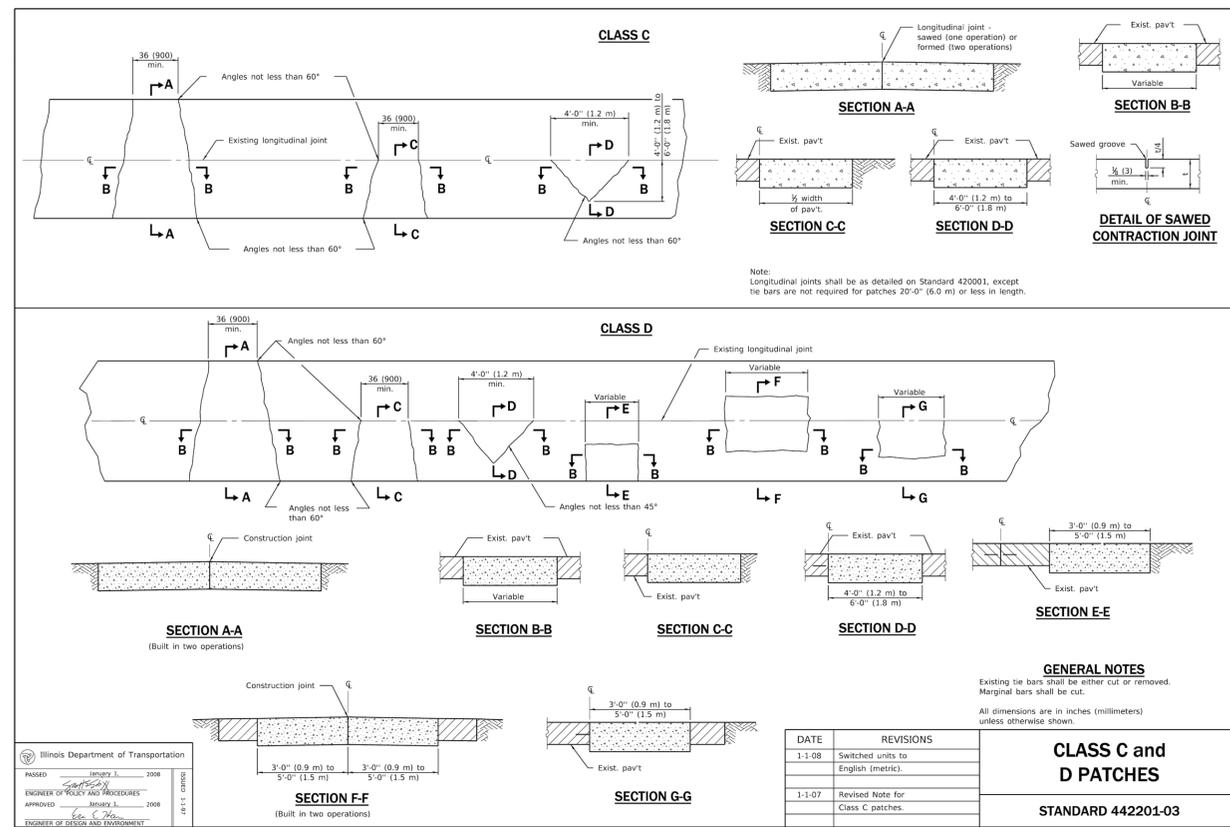
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PLOT SCALE = N.T.S.	CHECKED - AJ/LG	REVISED -
PLOT DATE = 6/12/2024	DATE - 05/24/2024	REVISED -

CITY OF AURORA
MASTODON LAKE DREDGING PROJECT

EROSION CONTROL DETAILS

SCALE: N.T.S. SHEET NO. 04 OF 04 SHEETS STA. TO STA.

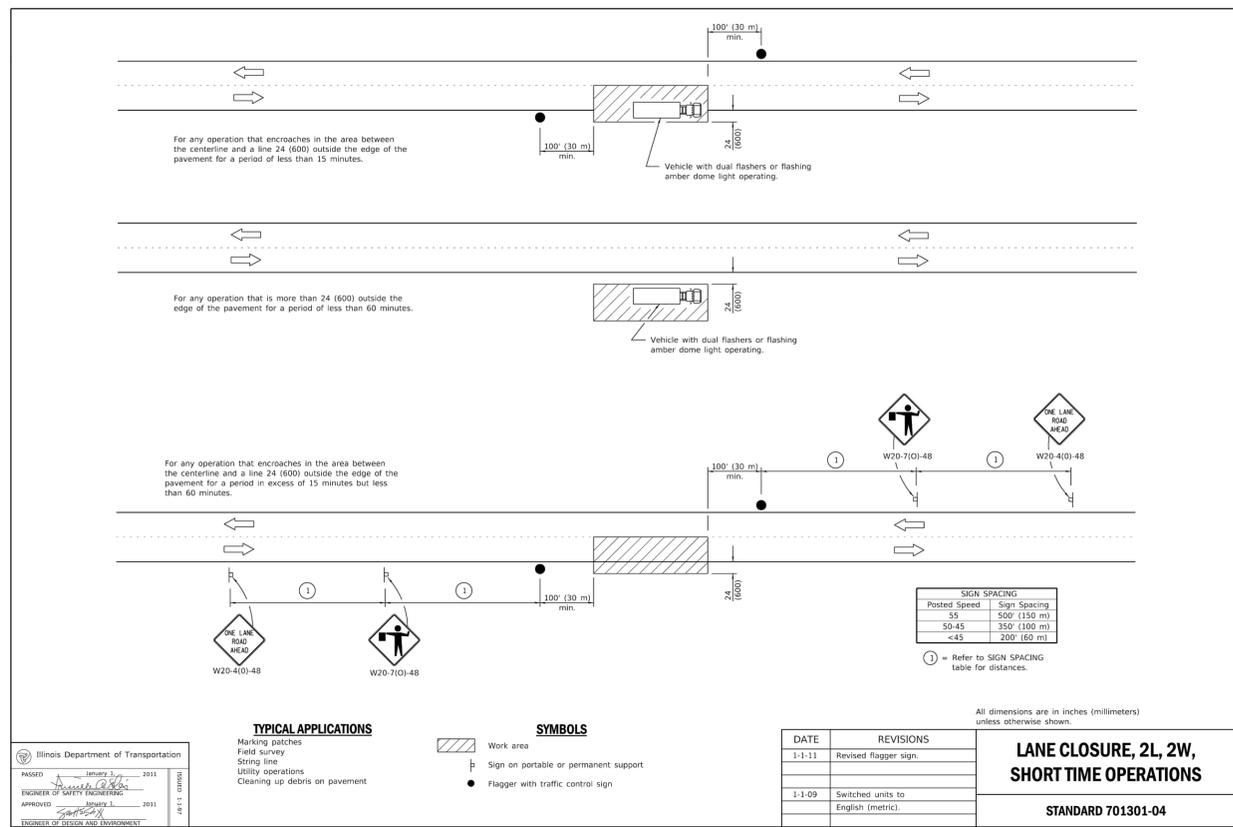
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	21
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
 PASSED January 3, 2008
 ENGINEER OF SURVEY AND PROCEEDURES
 APPROVED January 3, 2008
 ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-08	Switched units to English (metric).
1-1-07	Revised Note for Class C patches.

CLASS C and D PATCHES
 STANDARD 442201-03



Illinois Department of Transportation
 PASSED January 3, 2011
 ENGINEER OF SAFETY ENGINEERING
 APPROVED January 3, 2011
 ENGINEER OF DESIGN AND ENVIRONMENT

TYPICAL APPLICATIONS
 Marking patches
 Field survey
 String line
 Utility operations
 Cleaning up debris on pavement

SYMBOLS
 Work area
 Sign on portable or permanent support
 Flagger with traffic control sign

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
 STANDARD 701301-04

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 6/12/2024 9:11 AM
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HRGreen.com
 Illinois Professional Design Firm
 #184.001322

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PLOT DATE = 6/12/2024	DATE - 05/24/2024	REVISED -

CITY OF AURORA
MASTODON LAKE DREDGING PROJECT

IDOT STANDARD DETAILS
 SCALE: N.T.S. SHEET NO. 01 OF 02 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	22
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 6/12/2024 9:25 AM
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PLOT SCALE = N.T.S.	CHECKED - AJ/LG	REVISED -
PLOT DATE = 6/12/2024	DATE - 05/24/2024	REVISED -

**CITY OF AURORA
 MASTODON LAKE DREDGING PROJECT**

IDOT STANDARD DETAILS

SCALE: N.T.S. SHEET NO. 02 OF 02 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	23
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

POST MOUNTED SIGNS
 ** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.

SIGNS ON TEMPORARY SUPPORTS
 *** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.

HIGH LEVEL WARNING DEVICE
 18x18 (450x450) Orange flags

FLAGGER TRAFFIC CONTROL SIGN

ROAD CONSTRUCTION NEXT X MILES
 G20-1104(0)-6036

END CONSTRUCTION
 G20-1105(0)-6024

This signing is required for all projects 2 miles (3200 m) or more in length. ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits. END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m). Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING

WORK ZONE SPEED LIMIT W21-105(0)-3618
SPEED LIMIT XX R2-1-3648
PHOTO ENFORCED R10-1108p-3618 ****
SXXX FINE MINIMUM R2-1106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.

END WORK ZONE SPEED LIMIT G20-1103-6036
 This sign shall be used when the above sign assembly is used.

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS
 **** R10-1108p shall only be used along roadways under the jurisdiction of the State.

TRAFFIC CONTROL DEVICES
 (Sheet 2 of 3)
STANDARD 701901-08

TYPE A ROOF MOUNTED
TYPE B ROOF OR TRAILER MOUNTED
TYPE C TRAILER MOUNTED

ARROW BOARDS

TEMPORARY RUMBLE STRIPS

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

TRAFFIC CONTROL DEVICES
 (Sheet 3 of 3)
STANDARD 701901-08

DAYTIME USE
 Orange
 Any posted speed

DAY OR NIGHTTIME USE
 Orange
 Any posted speed

TUBULAR MARKER

VERTICAL PANEL
 POST MOUNTED

DRUM

TYPE I BARRICADE

TYPE II BARRICADE

TYPE III BARRICADE

DIRECTION INDICATOR BARRICADE

VERTICAL BARRICADE

* Warning lights (if required)

GENERAL NOTES
 All heights shown shall be measured above the pavement surface.
 All dimensions are in inches (millimeters) unless otherwise shown.

TRAFFIC CONTROL DEVICES
 (Sheet 1 of 3)
STANDARD 701901-08

Illinois Department of Transportation
 Approved: [Signature] January 3, 2019
 ENGINEER OF SAFETY PROG. AND ENGINEERING
 Approved: [Signature] January 3, 2019
 ENGINEER OF DESIGN AND ENVIRONMENT

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFB	ABOVE FINISHED FLOOR
AG	ABOVE FINISHED GRADE
AICS	AMPERES INTERRUPTING CAPACITY, SYMMETRICAL
ASD	ADJUSTABLE SPEED DRIVE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CKT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DB	DIRECT BURIED
DC	DIRECT CURRENT
DWG	DRAWING
ELEV	ELEVATION
ENCL	ENCLOSURE
EP	EXPLOSION PROOF
ETM	ELAPSED TIME METER
EXIST	EXISTING
FLEX	FLEXIBLE
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GND	GROUND
HH	HANDHOLE
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	HERTZ
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LA	LIGHTNING ARRESTOR
LOS	LOCKOUT STOP PUSH-BUTTON
LS	LIMIT SWITCH
LTG	LIGHTING
MA	MILLIAMPERE
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MIN	MINIMUM
MT	EMPTY
MTD	MOUNTED
N	NEUTRAL
NC	NORMALLY CLOSED
NL	NIGHTLIGHT
NO	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
OL'S	MOTOR OVERLOAD CONTACTS
P	POLE
PB	PUSHBUTTON, PULLBOX
PH	PHASE
PS	PRESSURE SWITCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
REF	REFERENCE
REQ'D	REQUIRED
SH	SHIELDED
SHT	SHEET
STD	STANDARD
SW	SWITCH
TACH	TACHOMETER
TB	TERMINAL BOARD
TEL	TELEPHONE
TEMP	TEMPERATURE
TSP	TWISTED PAIR
XFMR	TRANSFORMER
TST	TWISTED SHIELDED PAIR
TST	TWISTED SHIELDED TRIAD
TSTAT	THERMOSTAT
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS OTHERWISE NOTED
V	VOLT
VFD	VARIABLE SPEED DRIVE
VS	VARIABLE SPEED
W	WATTS, WIRE
WP	WEATHERPROOF
ZS	POSITION SWITCH

ELECTRICAL SYMBOLS

	UTILITY METERING
	METERING DEVICE: AM-AMMETER VM-VOLTMETER WM-WATTMETER FM-FREQUENCY METER WHM-KILOWATT HOUR METER DM-DIGITAL MULTI-FUNCTION METER MFM-MULTI-FUNCTION METER
	AMMETER SWITCH
	VOLTMETER SWITCH
	CURRENT TRANSFORMER, QUANTITY INDICATED
	POTENTIAL TRANSFORMER, QUANTITY INDICATED
	SWITCHGEAR DEVICE: 11 MULTIFUNCTION RELAY 21 DISTANCE RELAY 25 SYNCHRONIZING OR SYNCHRONISM CHECK DEVICE 26Q TEMPERATURE RELAY 27 UNDERVOLTAGE RELAY 32 DIRECTIONAL POWER RELAY 43 MANUAL TRANSFER OR SELECTOR DEVICE 46 REVERSE-PHASE OR PHASE-BALANCE CURRENT RELAY 47 PHASE-SEQUENCE VOLTAGE RELAY 49 MACHINE OR TRANSFORMER THERMAL RELAY 50 INSTANTANEOUS OVERCURRENT OR RATE OF RISE RELAY 50G ZERO SEQUENCE GROUND FAULT RELAY 51 A-C TIME OVERCURRENT RELAY 52 A-C CIRCUIT BREAKER 59 OVERVOLTAGE RELAY 63 SUDDEN PRESSURE RELAY 65 GOVERNOR 67 A-C DIRECTIONAL OVERCURRENT RELAY 81 FREQUENCY RELAY 86 LOCKOUT RELAY 87 DIFFERENTIAL PROTECTIVE RELAY
	KEY INTERLOCKING OF EQUIPMENT
	MECHANICAL INTERLOCKING OF EQUIPMENT
	ELECTRICAL INTERLOCKING OF EQUIPMENT
	POWER FACTOR CORRECTING CAPACITOR
	PHASE MONITORING RELAY
	ELAPSED TIME METER
	SURGE PROTECTIVE DEVICE
	MULTI-FUNCTION METER
	REMOTE TERMINAL UNIT
	TERMINAL BLOCK
	TRIP COIL
	GENERATOR NEUTRAL JUNCTION
	NEUTRAL GROUNDING RESISTOR (NGR)
	SHORTING TERMINAL BLOCK
	SYNCH SWITCH
	MEDIUM VOLTAGE SURGE ARRESTER
	LOW VOLTAGE CIRCUIT BREAKER (CB), RATINGS AND NO. OF POLES AS SHOWN. WHEN SPECIFIC TYPE IS REQUIRED, X INDICATES TYPE. TYPES: MCCB - MOLDED CASE ICCB - INSULATED CASE LVP - LOW VOLTAGE POWER MCP - MOTOR CIRCUIT PROTECTOR (RATING PER CONNECTED LOAD)
	SEPARATELY MOUNTED CIRCUIT BREAKER, SEE ELECTRICAL ONE LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION
	GROUND FAULT PROTECTION

ELECTRICAL SYMBOLS

	MEDIUM VOLTAGE CIRCUIT BREAKER
	FUSE, SIZE AND NUMBER OF FUSES AS NOTED
	FUSED CUTOFF, CURRENT RATING, FUSE SIZE AND NUMBER OF POLES AS NOTED
	FUSIBLE SWITCH, CURRENT RATING, FUSE SIZE AND QUANTITY AS NOTED
	NON-FUSED SWITCH, CURRENT RATING AND NUMBER OF POLES AS NOTED
	DISCONNECT OR DRAWOUT CONNECTION
	MOTOR CONTROLLER TYPE/SIZE FEATURES
	THERMAL OVERLOAD ELEMENT
	THERMAL OVERLOAD RELAY CONTACT
	MOTOR WITH DESIGN HORSEPOWER (WHEN INDICATED)
	GENERATOR
	TRANSFER SWITCH, CURRENT RATING AND NUMBER OF POLES AS NOTED.
	ATS - AUTOMATIC MTS - MANUAL
	TRANSFORMER Δ 3 PHASE, 3 WIRE DELTA CONNECTION Y 3 PHASE, 4 WIRE GROUND WYE CONNECTION
	SWITCHBOARD OR PANELBOARD, NAME, VOLTAGE, PHASE, NUMBER OF WIRES WHEN INDICATED.
	DELTA CONNECTION
	WYE CONNECTION
	GROUND WYE CONNECTION
	MANUAL MOTOR STARTER
	MOTOR OVERLOAD HEATER CONTACTS
	MOTOR OVERLOAD HEATER
	SOLENOID OPERATED VALVE
	MOTOR
	ALARM
	FUSE
	CONTROL POWER TRANSFORMER
	GROUND
	WIRING IN MOTOR STARTER
	FIELD WIRING

ELECTRICAL SYMBOLS PLANS

	CEILING/PENDANT MOUNTED FIXTURE
	CEILING/PENDANT MOUNTED FIXTURE, EMERGENCY/NIGHT LIGHT
	WALL MOUNTED FIXTURE
	WALL MOUNTED FIXTURE, EMERGENCY/NIGHT LIGHT
	WALL MOUNTED FIXTURE, EMERGENCY/NIGHT LIGHT
	EXIT LIGHT, CEILING MOUNTED, ARROW DIRECTION AS INDICATED. SHADED SECTION INDICATES ILLUMINATION FACE.
	EXIT LIGHT, WALL MOUNTED, ARROW DIRECTION AS INDICATED. SHADED SECTION INDICATES ILLUMINATION FACE.
	EMERGENCY LIGHT FIXTURE, 2 ATTACHED HEADS AS SHOWN
	EMERGENCY LIGHT, REMOTE MOUNTED HEAD
	FIRE ALARM SYSTEM F MANUAL PULL STATION, 48" ABOVE FLOOR VA VISUAL ALARM LIGHT 80" ABOVE FLOOR OR AS NOTED AAL AUDIBLE ALARM DEVICE WITH VISUAL ALARM LIGHT 80" ABOVE FLOOR OR AS NOTED CA COMBINATION AUDIBLE ALARM DEVICE AND VISUAL ALARM LIGHT 80" ABOVE FLOOR, AND MANUAL PULL STATION 48" ABOVE FLOOR GAL GENERAL ALARM BELL 80" ABOVE FLOOR OR AS NOTED VAL VISUAL ALARM LIGHT 80" ABOVE FLOOR, AND MANUAL PULL STATION 48" ABOVE FLOOR. TF THERMAL FIRE DETECTOR, COMBINATION RATE OF RISE AND FIXED TEMPERATURE, '200' INDICATES 200 DEGREE FIXED TEMPERATURE, '135' INDICATES 135 DEGREE FIXED TEMPERATURE, 'ST' INDICATES DETECTOR TO INITIATE ELEVATOR C.B. SHUNT-TRIP. AD AUTOMATIC DOOR RELEASE CONNECTION SD SMOKE DAMPER CONNECTION SD SMOKE DETECTOR ON CEILING; 'D'-INDICATES DUCT DETECTOR TYPE 'R'-INDICATES RELAY FOR AUXILIARY CONTROLS 'ER' INDICATES DETECTOR TO INITIATE ELEVATOR RECALL 'PT' INDICATES PROJECTED BEAM TYPE TRANSMITTER 'PR' INDICATES PROJECTED BEAM TYPE RECEIVER FAN SHUT-DOWN CONNECTION R REMOTE DETECTOR INDICATOR LIGHT R DUCT SMOKE DETECTOR REMOTE TEST/RESET STATION FS SPRINKLER FLOW SWITCH CONNECTION TS TAMPER-PROOF SPRINKLER VALVE SWITCH CONNECTION FAZ FIRE ALARM ZONE ANNUNCIATOR FAM FIRE ALARM MASTER ANNUNCIATOR FACP FIRE ALARM CONTROL PANEL CS TELEPHONE STATION G GAS DETECTOR SENSOR FIRE ALARM ZONE SITE L LIGHTING CONTROL STATION, PAD MOUNTED L LIGHTING CONTROL STATION, POLE MOUNTED H HAND HOLE J JUNCTION BOX T UTILITY TRANSFORMER, PAD MOUNTED T UTILITY TRANSFORMER, POLE MOUNTED PC PHOTOCELL MH MAN HOLE UNDERGROUND CONDUIT P POLE MOUNTED LIGHTING UNIT, AS SPECIFIED B BACK MOUNTED LIGHTING UNIT, AS SPECIFIED TL TOWER LIGHTING UNIT, AS SPECIFIED AL ATHLETIC FIELD LIGHTING UNIT, AS SPECIFIED

CONDUIT, RACEWAY AND WIRING

	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	HOME RUN TO PANEL, 2 #12, 1 #12G IN 3/4" UNLESS OTHERWISE NOTED
	CIRCUIT RUN BETWEEN DEVICES EXPOSED IN NON-ARCHITECTURALLY FINISHED AREAS, CONCEALED IN ARCHITECTURALLY FINISHED AREAS. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT
	CONDUIT RUN BETWEEN DEVICES CONCEALED IN NON-ARCHITECTURALLY FINISHED AREAS OR UNDER FLOOR SLAB. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.
	CIRCUIT CONTINUATION
	CONDUIT STUBBED OUT AND CAPPED
	CONDUIT TAG OR CIRCUIT NUMBER - WIRE AND CONDUIT SIZE AS SPECIFIED IN CIRCUIT SCHEDULE ON THE SHEETS
	PLUG IN STRIP-TYPE RECEPTACLES OR OTHER OUTLETS AS INDICATED
	LAY IN WIREWAY DUCT, SIZE AS NOTED
	FEEDER DUCT-RATING AND NUMBER OF CONDUCTORS AS NOTED
	PLUG IN DUCT-RATING AND NUMBER OF CONDUCTORS AS NOTED
	CABLE TRAY, TYPE AS NOTED
	CONDUIT TAGS A. GRS: GALVANIZED RIGID STEEL B. RAC: RIGID ALUMINUM CONDUIT C. PVC-GRS: PVC COATED GALVANIZED RIGID STEEL CONDUIT D. PVC: RIGID POLYVINYL CHLORIDE CONDUIT E. EMT: ELECTRICAL METALLIC TUBING CONDUIT (THINWALL) F. LFMC: LIQUIDTIGHT FLEXIBLE METAL CONDUIT G. HDPE: HIGH DENSITY POLYETHYLENE CONDUIT H. FMC: FLEXIBLE METAL CONDUIT

WIRING DEVICE

	CLOCK HANGER RECEPTACLE-20A, 125V, 2P, 3W (NEMA 5-20R), IN WALL +84" OR AS NOTED
	SIMPLEX RECEPTACLE - 125V, 2P, 3W, 20A, 50A, OR 50A AT OUTLET INDICATES AMP. RATING (NEMA 5-20R, 5-30R, OR 5-50R), IN WALL OR AS NOTED
	DUPLEX RECEPTACLE-20A, 125V, 2P, 3W (NEMA 5-20R), IN WALL
	DUPLEX RECEPTACLE-20A, 125V, 2P, 3W (NEMA 5-20R) IN CEILING
	DUPLEX RECEPTACLE-20A, 125V, 2P,3W (NEMA 5-20R), IN WALL ABOVE COUNTER TOP OR BACK SPLASH 'GFI'-INDICATES GROUND FAULT INTERRUPTER TYPE 'SS'-INDICATES SURGE SUPPRESSER TYPE 'IG'-INDICATES ISOLATED GROUND TYPE
	DUPLEX RECEPTACLE-20R, 125V, 2P, 3W (NEMA 5-20R), IN WALL OR AS NOTED, ONE RECEPTACLE HOT, ON RECEPTACLE SWITCH
	FLOOR OUTLET BOX WITH SIMPLEX RECEPTACLE-20A, 125V, 2P, 3W (NEMA 5-20R)
	FLOOR OUTLET WITH DUPLEX RECEPTACLE
	OUTLET WITH SPECIAL DEVICE AS NOTED, IN WALL
	OUTLET WITH SPECIAL DEVICE AS NOTED, IN FLOOR
	OUTLET WITH SPECIAL DEVICE AS NOTED, IN CEILING
	JUNCTION BOX OR OUTLET BOX
	SINGLE POLE WALL SWITCH: # - INDICATES 2-WAY, 3-WAY OR 4-WAY PL - PILOT LIGHT L/T - LOCKING TYPE LV - LOW VOLTAGE TYPE T - TIMER MC - MOMENTARY CONTACT
	PULL BOX
	PUSHBUTTON, AS NOTED
	LOCAL LIGHT DIMMER, M INDICATES MASTER CONTROLLER 1000 INDICATES 1000 WATTS 1500 INDICATES 1500 WATTS 2000 INDICATES 2000 WATTS
	MOTOR SPEED CONTROLLER 2-SPEED, 3-SPEED OR VARIABLE SPEED AS INDICATED
	MAGNETIC DOOR HOLD

SECURITY SYSTEM

	KEYPAD STATION
	KEYPAD ACCESS CONTROL
	CARD ACCESS READER
	COMBINATION KEYPAD ACCESS CONTROL & CARD ACCESS READER
	GLASS BREAK SENSOR
	SECURE DOOR, ELECTRICAL STRIKE & CONTACTS AS SCHEDULED
	SECURE WINDOW
	SECURITY MOTION SENSOR, AS INDICATED
	SECURITY ACCESS PROXIMITY SENSOR
	CLOSE CIRCUIT TELEVISION CAMERA FIXED MOUNTED
	CLOSED CIRCUIT TELEVISION CAMERA REMOTE PAN, TILT, & CONTROL
	DOOR CABINET
	SECURITY EQUIPMENT CONTROL PANEL

VENTILATION ALARM SYSTEM

	HORN
	STROBE
	PUSHBUTTON ENCLOSURE W/ PILOT LIGHTS

MISCELLANEOUS

	THERMOSTAT 48" ABOVE FLOOR.
	PHOTOCELL CONTROL
	ELECTRIC HAND DRYER AS NOTED.
	REFERENCED NOTE
	TIME SWITCH
	TELECOMMUNICATIONS MAIN GROUND BAR AT 80" OR AS NOTED.
	TELECOMMUNICATIONS GROUND BAR, 'XX' INDICATES GROUND BAR NUMBER.
	OCCUPANCY SENSOR, CEILING MOUNTED
	OCCUPANCY SENSOR, WALL MOUNTED, 48" ABOVE FLOOR
	SPECIAL SYSTEM WIRING TO CENTRAL EQUIPMENT, PANEL, TERMINAL CABINET OR NEXT DEVICE. EM = EMERGENCY SYSTEM FO = FIBER OPTIC MVE = MEDIUM VOLTAGE ELECTRICAL E = ELECTRIC AS NOTED GF = CIRCUIT TO GROUND FAULT CIRCUIT BREAKER EIL = EQUIPMENT INTERLOCK MT = EMPTY CONDUIT

NOTES

- ALL WALL RECEPTACLES, TELEPHONE OUTLETS OR SIMILAR OUTLETS TO BE 16" ABOVE FLOOR TO BOTTOM UNLESS OTHERWISE INDICATED.
- ALL WALL SWITCHES, PUSHBUTTONS AND DIMMERS TO BE 48" ABOVE FLOOR TO BOTTOM UNLESS OTHERWISE INDICATED.
- UPPER CASE LETTERS 'XX' AT DEVICE INDICATES AS NOTED;
DD = DOUBLE DUPLEX RECEPTACLES IN TWO GANG BOX
IG = ISOLATED GROUND TYPE
SS = SURGE SUPPRESSION TYPE
GFI = GROUND FAULT INTERRUPTER TYPE
WP = WEATHERPROOF
TL = TWIST LOCK TYPE
WG = WIREGUARD TO BE PROVIDED
RI = ROUGH-IN ONLY
- LOWER CASE LETTERS AT SWITCHES AND FIXTURES INDICATE ASSOCIATED UNITS FOR SWITCHING.
- UPPER CASE LETTERS AT FIXTURE INDICATE FIXTURE TYPE.
- NUMBER AT FIXTURE OR OUTLET INDICATES PANEL CIRCUIT NUMBER.
- PLUS (+) SIGN WITH DIMENSION AT OUTLET INDICATES HEIGHT ABOVE FINISHED FLOOR LINE OR HEIGHT ABOVE FINISHED GRADE.

NOTE:
NOT ALL SYMBOLS SHOWN IN THESE LISTS MAY BE USED IN THIS PROJECT. CONTACT ARCHITECT OR ENGINEER FOR CLARIFICATION OF ANY DISCREPANCIES.

COMPANY NAME: HRGreen.com
PROJECT CONTACT: Illinois Professional Design Firm
#184.001322
DATE PLOTTED: 5/24/2024 3:14 PM
FILE NAME: 191806-Electrical-Sym&Abbrev
PLOT DRIVER: None
PEN TABLE:



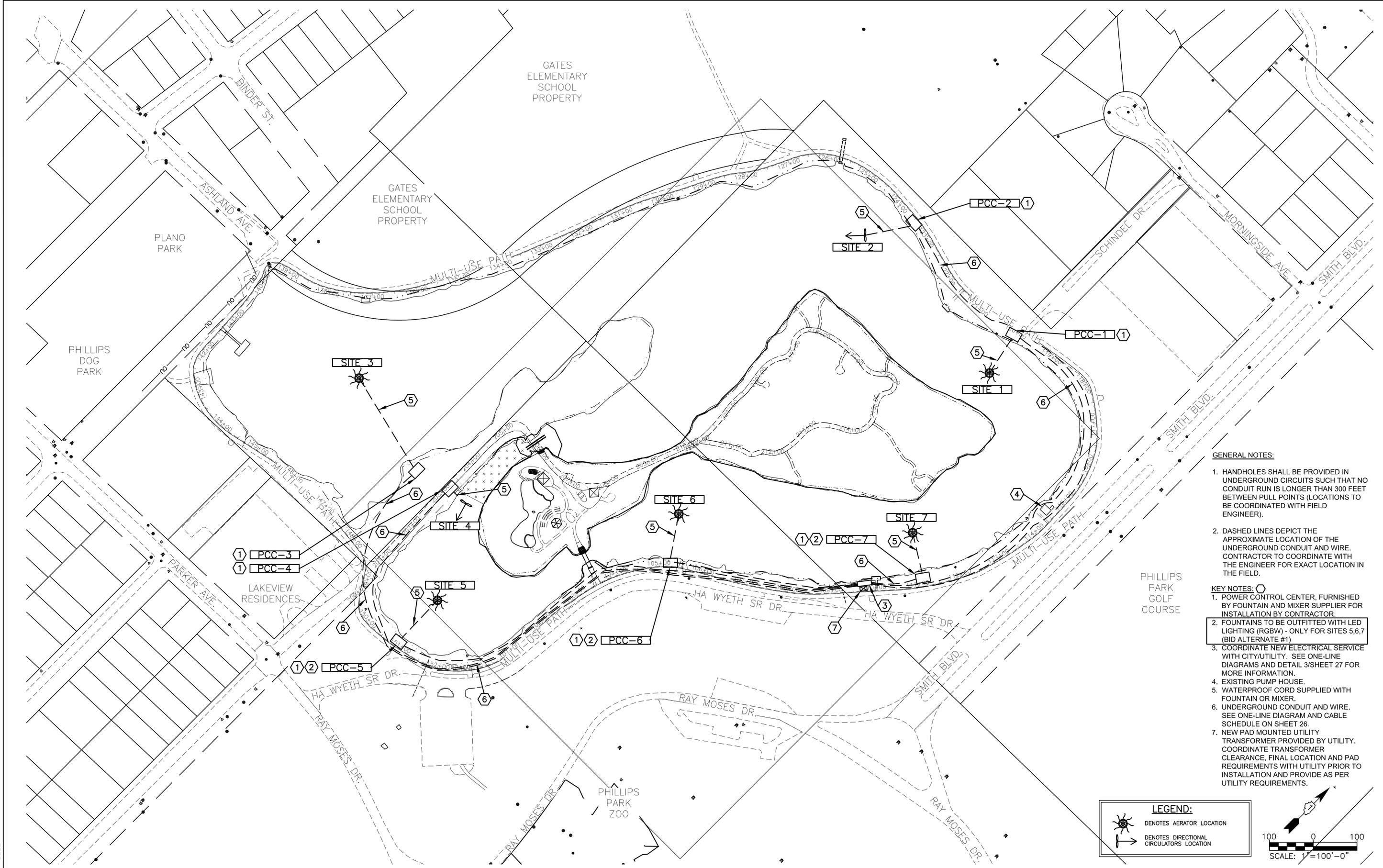
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FILE NAME =	191806-Electrical-Sym&Abbrev	DRAWN -	MPL	REVISED -	
PLOT SCALE =	N.T.S.	CHECKED -	AJ/LG	REVISED -	
PLOT DATE =	05/24/2024	DATE -	05/24/2024	REVISED -	

CITY OF AURORA
MASTODON LAKE DREDGING PROJECT

Electrical Symbols & Abbreviations

SCALE: N.T.S. SHEET NO. 01 OF 04 SHEETS STA. TO STA.

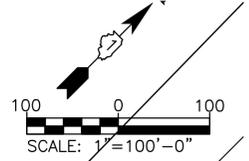
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	24
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



- GENERAL NOTES:**
- HANDHOLES SHALL BE PROVIDED IN UNDERGROUND CIRCUITS SUCH THAT NO CONDUIT RUN IS LONGER THAN 300 FEET BETWEEN PULL POINTS (LOCATIONS TO BE COORDINATED WITH FIELD ENGINEER).
 - DASHED LINES DEPICT THE APPROXIMATE LOCATION OF THE UNDERGROUND CONDUIT AND WIRE. CONTRACTOR TO COORDINATE WITH THE ENGINEER FOR EXACT LOCATION IN THE FIELD.
- KEY NOTES:**
- POWER CONTROL CENTER, FURNISHED BY FOUNTAIN AND MIXER SUPPLIER FOR INSTALLATION BY CONTRACTOR.
 - FOUNTAINS TO BE OUTFITTED WITH LED LIGHTING (RGBW) - ONLY FOR SITES 5,6,7 (BID ALTERNATE #1)
 - COORDINATE NEW ELECTRICAL SERVICE WITH CITY/UTILITY. SEE ONE-LINE DIAGRAMS AND DETAIL 3/SHEET 27 FOR MORE INFORMATION.
 - EXISTING PUMP HOUSE.
 - WATERPROOF CORD SUPPLIED WITH FOUNTAIN OR MIXER.
 - UNDERGROUND CONDUIT AND WIRE. SEE ONE-LINE DIAGRAM AND CABLE SCHEDULE ON SHEET 26.
 - NEW PAD MOUNTED UTILITY TRANSFORMER PROVIDED BY UTILITY. COORDINATE TRANSFORMER CLEARANCE, FINAL LOCATION AND PAD REQUIREMENTS WITH UTILITY PRIOR TO INSTALLATION AND PROVIDE AS PER UTILITY REQUIREMENTS.

LEGEND:

- DENOTES AERATOR LOCATION
- DENOTES DIRECTIONAL CIRCULATORS LOCATION



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 5/24/2024 3:14 PM
 CLIENT: 191806-Electrical-Site-Plan
 FILE NAME: 191806-Electrical-Site-Plan
 PLOT DRIVER: None
 PEN TABLE: None

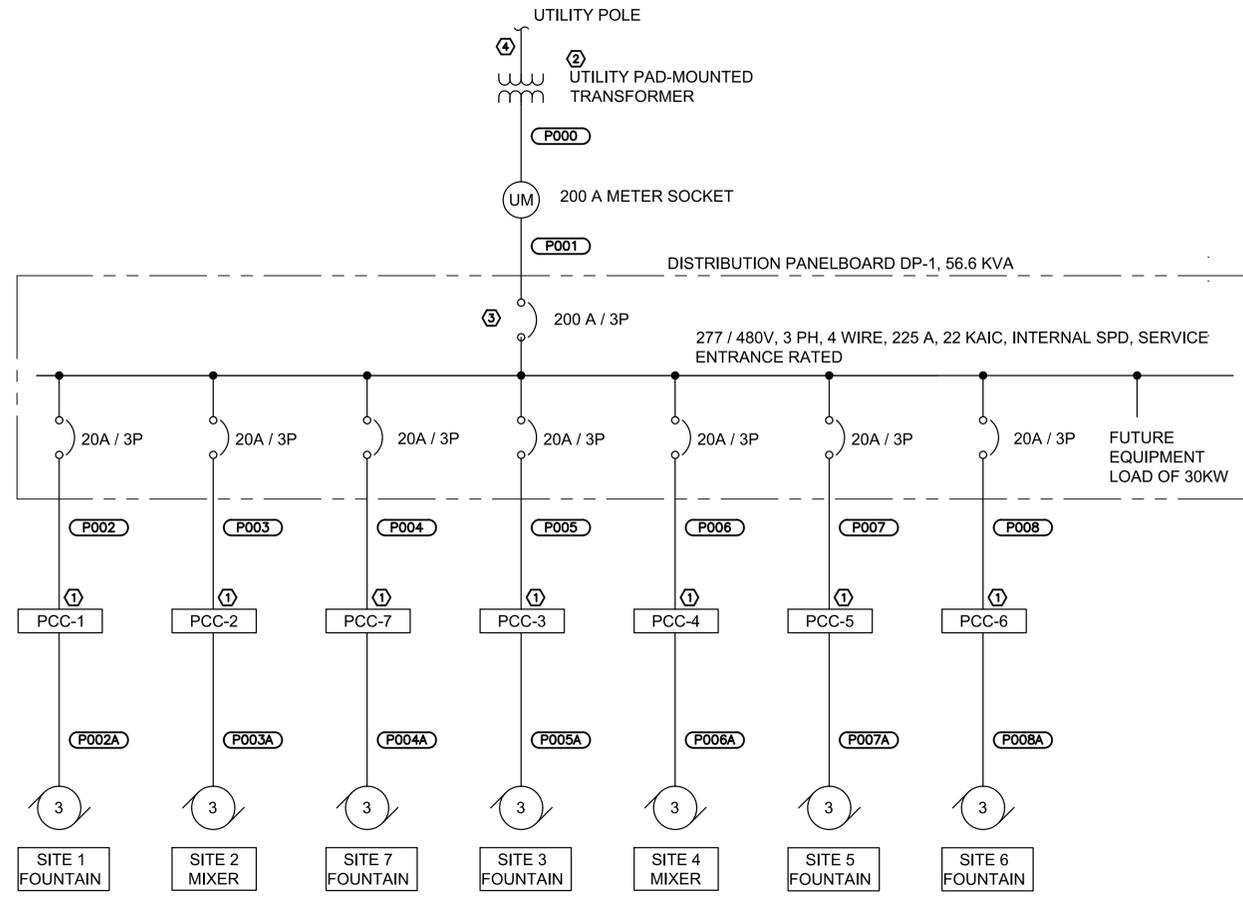
HRGreen.com
 Illinois Professional Design Firm
 #184.001322

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FILE NAME = 191806-Electrical-Site-Plan	DRAWN - MPL	REVISED -
PLOT SCALE = 1"=100'	CHECKED - AJ/LG	REVISED -
PLOT DATE = 05/24/2024	DATE - 05/24/2024	REVISED -

**CITY OF AURORA
 MASTODON LAKE DREDGING PROJECT**

ELECTRICAL SITE PLAN	
SCALE: 1"=100'	SHEET NO. 02 OF 04 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	25
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



NEW ELECTRICAL SERVICE ONE-LINE DIAGRAM

- GENERAL NOTES:**
1. CONDUCTORS ARE SIZED TO REDUCE VOLTAGE DROP WITHIN ACCEPTABLE LIMITS.
 2. HANDHOLES SHALL BE PROVIDED IN UNDERGROUND CIRCUITS SUCH THAT NO CONDUIT RUN IS LONGER THAN 300 FEET BETWEEN PULL POINTS.(LOCATIONS TO BE COORDINATED WITH FIELD ENGINEER)
 3. MANUFACTURER CUT SHEETS AND SPECIFICATIONS FOR THE FOUNTAINS, MIXERS, UNDERGROUND ELECTRICAL AND ASSOCIATED ITEMS SHOULD BE SUBMITTED TO THE CITY FOR REVIEW PRIOR TO INSTALLATION

- KEY NOTES:**
1. POWER CONTROL CENTER EQUIPPED WITH 5 MILLIAMPER GROUND FAULT PROTECTION FURNISHED BY FOUNTAIN OR MIXER SUPPLIER FOR INSTALLATION BY CONTRACTOR.
 2. NEW 480Y/277 V, 3-PHASE, 60 HZ, 4-WIRE SERVICE PAD-MOUNTED TRANSFORMER BY ELECTRIC UTILITY COMPANY. COORDINATE FINAL LOCATION WITH UTILITY COMPANY.
 3. PROVIDE SERVICE GROUNDING AS PER DETAIL 5/SHEET 27.
 4. PROVIDE CONDUIT WITH 2500# PULL STRING TO BASE OF UTILITY SERVICE POLE. COORDINATE CONDUIT SIZE AND FINAL LOCATION OF UTILITY POLE WITH UTILITY COMPANY.

CABLE & RACEWAY SCHEDULE

CIRCUIT #	FROM	TAG #	TO	TAG #	CONDUCTORS	CONDUIT	REMARKS
P000	UTILITY POLE TRANSFORMER	-	UTILITY METER	-	4-#3/0	2"	
P001	UTILITY METER	-	DISTRIBUTION PANELBOARD	DP-1	4-#3/0	2"	
P002	DISTRIBUTION PANELBOARD	DP-1	SITE 1 FOUNTAIN POWER CONTROL CENTER	PCC-1	3-#10, #10 GND	1"	
P002A	SITE 1 FOUNTAIN POWER CONTROL CENTER	PCC-1	SITE 1 FOUNTAIN		#12 POWER CORD	-	SUPPLIED BY MANUFACTURER
P003	DISTRIBUTION PANELBOARD	DP-1	SITE 2 MIXER POWER CONTROL CENTER	PCC-2	3-#8, #8 GND	1"	
P003A	SITE 2 MIXER POWER CONTROL CENTER	PCC-2	SITE 2 MIXER		#12 POWER CORD	-	SUPPLIED BY MANUFACTURER
P004	DISTRIBUTION PANELBOARD	DP-1	SITE 7 FOUNTAIN POWER CONTROL CENTER	PCC-3	3-#8, #8 GND	1"	
P004A	SITE 7 FOUNTAIN POWER CONTROL CENTER	PCC-3	SITE 7 FOUNTAIN		#12 POWER CORD	-	SUPPLIED BY MANUFACTURER
P005	DISTRIBUTION PANELBOARD	DP-1	SITE 3 FOUNTAIN POWER CONTROL CENTER	PCC-4	3-#8, #8 GND	1"	
P005A	SITE 3 FOUNTAIN POWER CONTROL CENTER	PCC-4	SITE 3 FOUNTAIN		#12 POWER CORD	-	SUPPLIED BY MANUFACTURER
P006	DISTRIBUTION PANELBOARD	DP-1	SITE 4 MIXER POWER CONTROL CENTER	PCC-5	3-#10, #10 GND	1"	
P006A	SITE 4 MIXER POWER CONTROL CENTER	PCC-5	SITE 4 MIXER		#12 POWER CORD	-	SUPPLIED BY MANUFACTURER
P007	DISTRIBUTION PANELBOARD	DP-1	SITE 5 FOUNTAIN POWER CONTROL CENTER	PCC-6	3-#12, #12 GND	1"	
P007A	SITE 5 FOUNTAIN POWER CONTROL CENTER	PCC-6	SITE 5 FOUNTAIN		#12 POWER CORD	-	SUPPLIED BY MANUFACTURER
P008	DISTRIBUTION PANELBOARD	DP-1	SITE 6 FOUNTAIN POWER CONTROL CENTER	PCC-7	3-#12, #12 GND	1"	
P008A	SITE 6 FOUNTAIN POWER CONTROL CENTER	PCC-7	SITE 6 FOUNTAIN		#12 POWER CORD	-	SUPPLIED BY MANUFACTURER
NOTES:							
1							
2							

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 5/24/2024 3:23 PM
 CLIENT: Electrical-Details-OneLine
 FILE NAME: Electrical-Details-OneLine
 PLOT DRIVER: DWG To PDF.pc3
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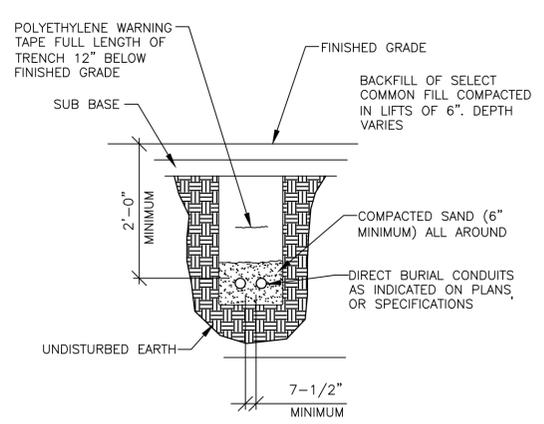


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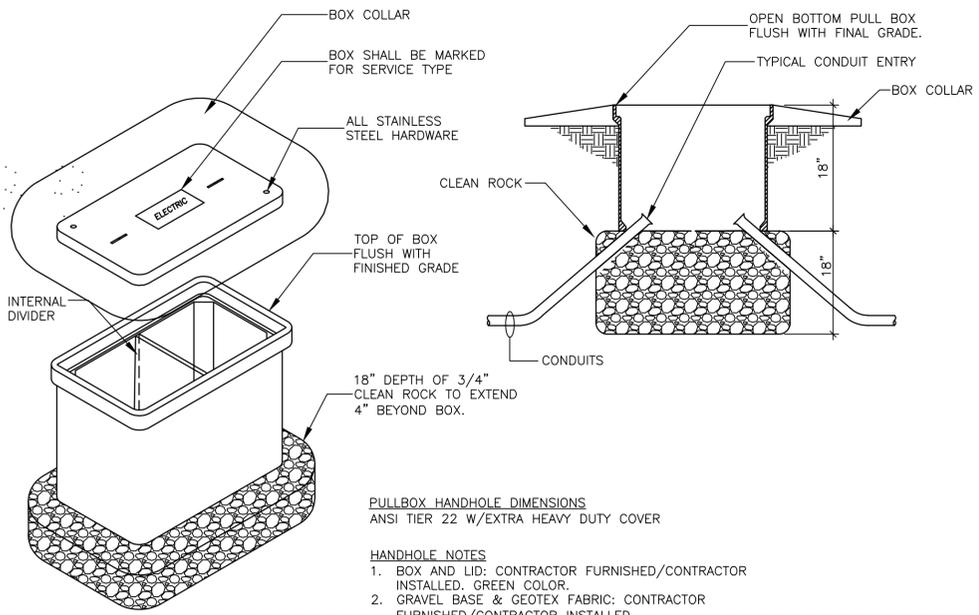
CITY OF AURORA
MASTODON LAKE DREDGING PROJECT

Electrical One Line Diagrams
 SCALE: N.T.S. SHEET NO. 03 OF 04 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	26
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



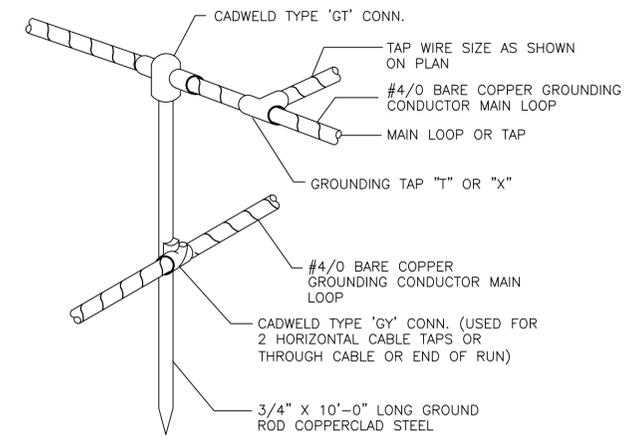
1 DIRECT-BURIED CONDUIT DETAIL
SCALE: NONE



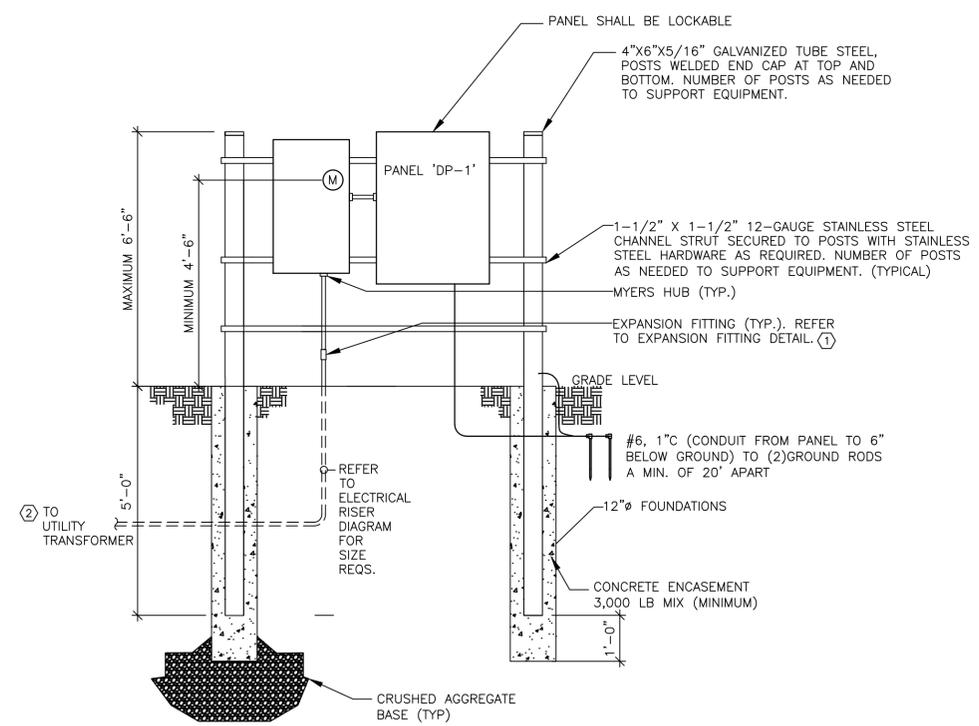
PULLBOX HANDHOLE DIMENSIONS
ANSI TIER 22 W/EXTRA HEAVY DUTY COVER

HANDHOLE NOTES
1. BOX AND LID: CONTRACTOR FURNISHED/CONTRACTOR INSTALLED. GREEN COLOR.
2. GRAVEL BASE & GEOTEX FABRIC: CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
3. PROVIDE AND INSTALL PRE-CAST COLLAR FOR EACH HANDHOLE, REFER TO SECTION 26 0533.16.

2 HANDHOLE DETAIL
SCALE: NONE



5 CONDUCTOR TO GROUND ROD CONNECTION DETAIL
SCALE: NONE

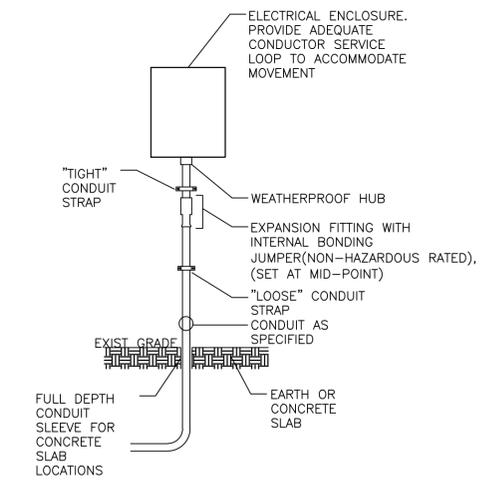


EQUIPMENT RACK KEY NOTES: ○

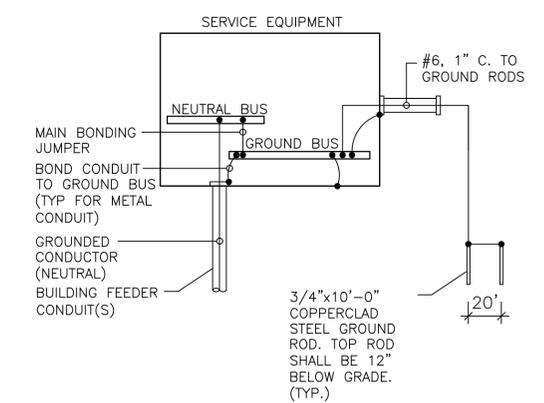
1 **CONDUITS:** PROVIDE AND INSTALL CONDUIT EXPANSION FITTING (4-INCH RATED) IN EACH UNDERGROUND CONDUIT. LOCATE BOTTOM OF EXPANSION FITTING AT LEAST 24-INCHES ABOVE GRADE. CONDUIT SHALL BE A CONTINUOUS 10'-0" SECTION OF CONDUIT FROM EXPANSION FITTING DOWN TO UNDERGROUND. NO CONDUIT COUPLINGS OR OTHER FITTINGS SHALL BE EXPOSED BETWEEN THE EXPANSION FITTING AND GRADE. REFER TO CONDUIT EXPANSION DETAIL.

2 **UTILITY CONNECTION:** COORDINATE WITH UTILITY FOR LOCATION OF UTILITY TRANSFORMER AND REQUIREMENTS FOR ROUTING CONDUIT FROM UTILITY TRANSFORMER TO UTILITY METER. PROVIDE ALL NECESSARY ACCESSORIES REQUIRED BY THE UTILITY TO ROUTE CONDUIT FROM TRANSFORMER TO METER.

3 EQUIPMENT RACK
SCALE: NONE



4 EXPANSION FITTING DETAIL
SCALE: NONE



5 SERVICE GROUNDING DETAIL
SCALE: NONE

COMPANY NAME: HRGreen.com
PROJECT CONTACT: HRGreen.com
DATE PLOTTED: 5/24/2024 3:14 PM
CLIENT: 191806-Electrical-Details
FILE NAME: 191806-Electrical-Details
PLOT DRIVER: DWG To PDF.pc3
PEN TABLE: SEC-Standard.ctb



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PLOT DATE = 5/24/2024	DATE - 05/24/2024	REVISED -

CITY OF AURORA
MASTODON LAKE DREDGING PROJECT

ELECTRICAL DETAILS

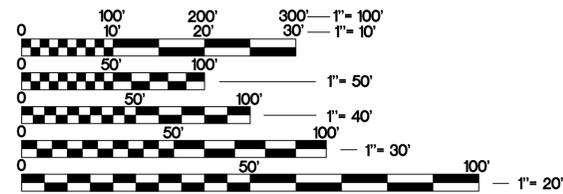
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	27	27
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



FINAL ENGINEERING PLANS FOR: MASTODON LAKE, SHORELINE RESTORATION CITY OF AURORA KANE COUNTY, ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF HIGHWAY STANDARDS SEE SHEET NO. 2
FOR BENCHMARK INFORMATION, SEE SHEET NO. 2



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
811 OR 1-800-892-0123

Dial 811 or 1-800-892-0123 JULIE DESIGN TICKET NUMBER: # A0330734

Know what's below.
Call before you dig.

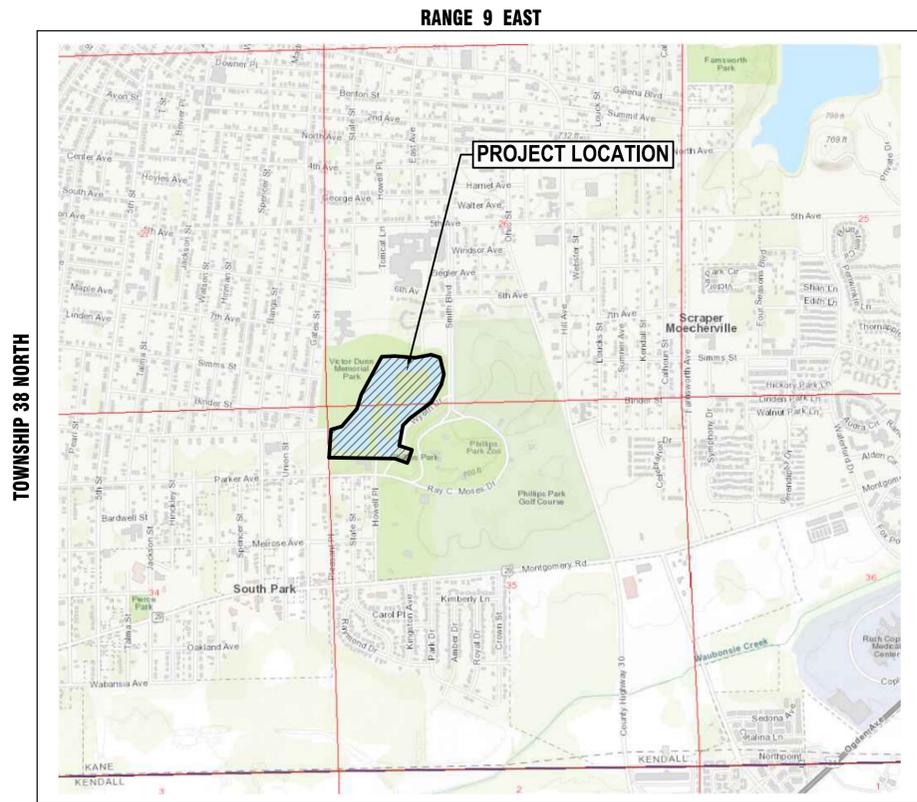
WITH THE FOLLOWING:
COUNTY KANE COUNTY
CITY-TOWNSHIP AURORA-AURORA TOWNSHIP
SEC. & 1/4 SEC. NO.# 26.35-38 N.-8 E.

(2) Working Days before you dig
(Excluding Sat., Sun. & Holidays)

ENGINEER/SURVEYOR:

HR GREEN, INC
2363 SEQUOIA DRIVE, SUITE 101 | AURORA, IL 60506

CLIENT MANAGER: A. JAIN, P.E.
(815) 759-8331
PROJECT MANAGER: L. GILBERTSEN, P.E.
(815) 759-8370
PROJECT SURVEYOR: J. BOLINE, P.L.S.
(815) 759-8375



KANE COUNTY- AURORA TOWNSHIP
THIRD PRINCIPAL MERIDIAN

PROJECT LOCATION MAP
SCALE: N.T.S.



2363 SEQUOIA DRIVE, SUITE 101 | AURORA, IL 60506
Phone: 630.553.7560 | Toll Free: 800.728.7805 | Fax: 630.553.7646 | HRGreen.com

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ILLINOIS	KANE	32	1
CONTRACT NO.				



CITY OF AURORA

APPROVED _____ 20____

CITY OF AURORA



LOGAN R. GILBERTSEN, P.E.
EXPIRES: NOVEMBER 30, 2025

PLANS PREPARED FOR:

CITY OF AURORA
MR. SOUTS THAVONG, P.E., CFM
ENGINEERING COORDINATOR
CITY OF AURORA ENGINEERING DIVISION
44 EAST DOWNER PLACE
AURORA, IL 60507
PHONE: (630) 256-3207

**PROJECT LOCATED IN THE
CITY OF AURORA**

**PRINTED BY THE AUTHORITY
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Sheet List Table

Sheet Number	Sheet Title
01	Cover (1)
02	Index of sheets and IDOT Details (1)
03	General Notes (1)
04	Summary_of_Quantities (2)
05	Overall-Ex-Cond (1)
06	Bank Restore-Typs (1)
07	Bank Restore-Typs (2)
08	Bank Restore-Typs (3)
09	Restoration (1)
10	Restoration (2)
11	Restoration (3)
12	Restoration (4)
13	Erosion_Specs (1)
14	Erosion_Details (1)
15	Erosion_Details (2)
16	Erosion_Details (3)
17	Erosion_Details (4)
18	IDOT_Details (1)
19	IDOT_Details (2)

UTILITY CONTACTS

UTILITY: CITY OF AURORA
CONTACT: MIKE HOUSTON
PHONE: 331-254-2026
EMAIL: houstonm@aurora.il.us

UTILITY: ATT DISTRIBUTION
CONTACT: G11629@ATT.com
EMAIL: G11629@ATT.com

UTILITY: COMED
PHONE: 630-576-7094

UTILITY: COMCAST
CONTACT: MARTHA GIERAS
PHONE: 224-229-5862
EMAIL: martha_gieras@comcast.com

UTILITY: FOX METRO WATER RECLAM. DIST
CONTACT: KEITH ZOLLERS
PHONE: 630-301-6810
EMAIL: kzollers@foxmetro.org

UTILITY: NICOR GAS
CONTACT: UTILITY CONSULTANT G03W
PHONE: 630-388-2362

SYMBOL LEGEND

	EXISTING	PROPOSED
SANITARY MANHOLE	⊙	⊙
STORM MANHOLE	⊙	⊙
STORM CATCH BASIN/INLET	⊙	⊙
INLET	⊙	⊙
FLARED END SECTION	⊙	⊙
VALVE VAULT	⊙	⊙
WATER SERVICE VALVE	⊙	⊙
WATER B-BOX	⊙	⊙
INDICATES WATER MAIN LINE STOP	⊙	⊙
INDICATES PRESSURE VALVE INSERT	⊙	⊙
CUT AND CAP	⊙	⊙
FIRE HYDRANT WITH AUXILIARY VALVE	⊙	⊙
LIGHT POLE	⊙	⊙
REGULATORY SIGN	⊙	⊙
UTILITY POLE	⊙	⊙
UTILITY BOX	⊙	⊙
MAILBOX	⊙	⊙
WELL	⊙	⊙
SANITARY SEWER	—	—
STORM SEWER	—	—
COMBINATION STORM AND SANITARY SEWER	—	—
CULVERT	—	—
PERFORATED UNDERDRAIN	—	—
WATER MAIN	—	—
WATER MAIN ENCASEMENT	—	—
TRENCH BACKFILL	—	—
SANITARY FORCE MAIN	—	—
ELECTRIC LINE	—	—
OVERHEAD ELECTRIC LINE	—	—
UNDERGROUND ELECTRIC	—	—
TELEPHONE LINE	—	—
GAS LINE	—	—
CABLE TV LINE	—	—
FIBER OPTIC LINE	—	—
RAILROAD TRACKS	—	—
TREE LINE	—	—
TREE	—	—
CONTOURS	—	—
SPOT ELEVATION	—	—
FENCE	—	—
WETLAND	—	—
MARSH / WETLAND	—	—
RIPRAP	—	—
DRAINAGE DIRECTION ARROW	—	—
DRAINAGE OVERFLOW DIRECTION	—	—

STANDARD ABBREVIATIONS

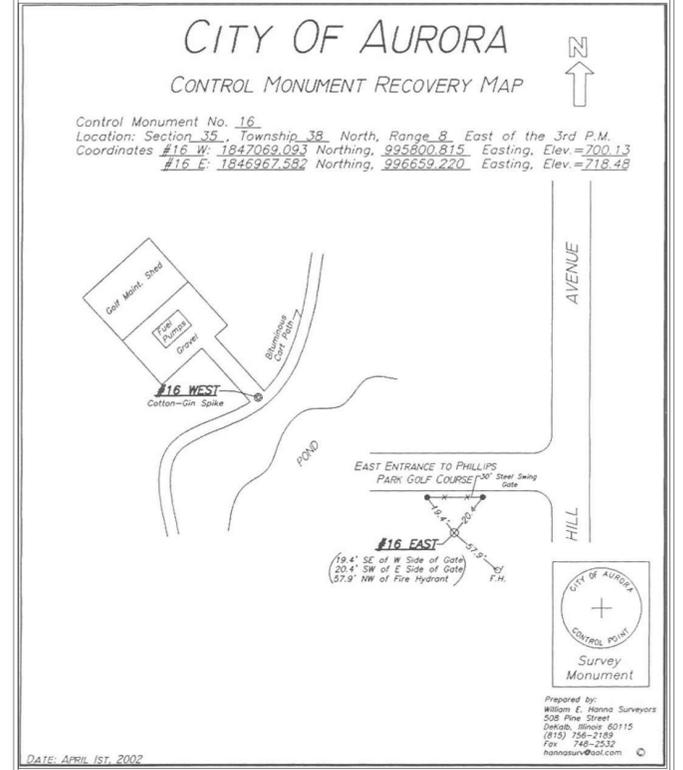
B-B - BACK TO BACK OF CURB	L.E. - LANDSCAPE EASEMENT
B.C. - BACK OF CURB	M.H. - MANHOLE (TYPE SPECIFIED ON PLANS)
B.O.C. - BACK OF CURB	R.C.M.E. - ROAD CONSTRUCTION & MAINTENANCE EASEMENT
B.S.L. - BUILDING SETBACK LINE	R.O.W. - RIGHT OF WAY
C.B. - STORM CATCH BASIN	T.B.F. - TRENCH BACKFILL
C.E. - COMMONWEALTH EDISON CO.	T.C. - TOP OF CURB
D.E. - DRAINAGE EASEMENT	T.C.E. - TEMPORARY CONSTRUCTION EASEMENT
E-E - EDGE TO EDGE OF PAVEMENT	T.O.B. - TOP OF BERM
E.O.P. - EDGE OF PAVEMENT	T.O.C. - TOP OF CURB
E.O.S. - EDGE OF SHOULDER	U.E. - UTILITY EASEMENT
E.P. - EDGE OF PAVEMENT	
E.S. - EDGE OF SHOULDER	
F.E.S. - FLARED END SECTION	
I.B.T. - ILLINOIS BELL TELEPHONE CO.	

SITE BENCHMARKS:

DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

SITE BENCHMARK

CITY OF AURORA BENCHMARK #16E
CITY OF AURORA SURVEY MONUMENT DISK AT THE SOUTHWEST INTERSECTION OF HILL AVENUE AND THE EAST ENTRANCE TO PHILLIPS PARK GOLF COURSE. LYING 6.9' SOUTHWEST OF NORTHWEST POST CORNER OF THE PHILLIPS PARK GOLF COURSE SIGN AND 13.7' NORTHWEST OF THE SOUTHWEST POST CORNER OF THE PHILLIPS PARK GOLF COURSE SIGN.
ELEVATION=718.48 (NAVD88)



COMPANY NAME: HRGreen.com
PROJECT CONTACT: HRGreen.com
DATE PLOTTED: 5/31/2024 8:08 AM
FILE NAME: 191806-Cover
PLOT DRIVER: DWG To PDF.pc3
PEN TABLE: ILDOT-Standard.ctb



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PLOT DATE = 5/31/2024	DATE - 10/05/2021	REVISED -

CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

INDEX OF SHEETS, BENCHMARKS AND UTILITY CONTACTS

SCALE: N.T.S. SHEET NO. 01 OF 01 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	02
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

WATER SERVICE VALVE LOREN GYPSUM

GENERAL NOTES:

- All items of this project shall be governed by specifications included in the documents listed below:
 - "Standard Specifications for Road and Bridge Construction" prepared by the Department of Transportation of the State of Illinois and adopted by said department (Latest Edition).
 - "Supplemental Specifications and Recurring Special Provisions" adopted by the Illinois Department of Transportation (Latest Edition).
 - "Bureau of Design & Environment Manual" (BDE) by Illinois Department of Transportation (Latest Edition)
 - "Manual on Uniform Traffic Control Devices" – Federal Highway Administration MUTCD (Latest Edition).
 - "Illinois Supplement to the National Manual on Uniform Traffic Control Devices" (Latest Edition).
 - "Standard Specifications for Water and Sewer Main Construction in Illinois" (Latest Edition).
 - "Illinois Urban Manual" prepared by the U.S. Department of Agriculture NRCS and maintained by the Association of Illinois Soil and Water Conservation Districts (Latest Edition).
 - "Standards and Specifications for Soil Erosion and Sediment Control" by IEPA, Illinois Urban Manual – A Technical Manual Designed For Urban Ecosystem Protection and Enhancement, (Latest Edition).
 - "Kane County Stormwater Management Ordinance"

In addition the following special provisions supplement the said specifications, and in case of conflict with any part or parts of said specifications, these special provisions shall take precedence and shall govern.

- SCOPE OF WORK: The proposed improvement consists of supplying all the necessary labor, material and equipment to satisfactorily construct and install all improvements according to the plans designated as MASTODON LAKE DREDGING, SHORELINE RESTORATION PROJECT – AURORA,IL.

3. COORDINATION WITH UTILITIES

Prior to the start of construction, the contractor shall have all utilities located by J.U.L.I.E (811) or (1-800-892-0123) at least 48 hours prior to the start of construction. The contractor shall cooperate with all utility owners as provided for in the Standard Specifications.

The contractor shall be responsible for the protection of all underground or surface utilities, even though they may not be shown on the plans. Any utility that is damaged during construction shall be repaired or replaced to the satisfaction of the Engineer or the Owner. This work shall be paid for at the Contractor's expense.

It is the Contractor's responsibility to locate all existing utilities prior to construction. The location of existing utilities as shown on these plans is based on record information and may not be accurate. Where conflict exists between existing utilities and the proposed underground piping requiring a revision to the plans, such construction shall not be undertaken until such changes are approved by the Engineer. The contractor shall report all such conflicts immediately to the Engineer.

The coordination of all utility work for the construction project will be discussed at a pre construction meeting.

- CLEARING, TREE REMOVAL, BUSH REMOVAL, AND PROTECTION
The Contractor shall provide protection as per Article 201 of the Standard Specifications.

5. CONSTRUCTION FENCING

- Perimeter Construction Fencing to be placed to ensure the safety of property and life. Fencing of areas for contractors stockpile, staging, security and safety shall not be measured for payment. Construction fencing shall be adjusted at the Owner's direction when it interferes with the Owner's operations.

6. CONSTRUCTION OBSERVATION

All improvements shall be subject to observation by a duly authorized and qualified City of Aurora or owner's representative both during the course of construction and after construction is complete for final project closeout.

- EROSION CONTROL. It shall be the Contractor's responsibility to properly control erosion on the jobsite. Any siltation of conduits, structures, or ditches shall be cleaned and maintained by the Contractor until the seeding has taken hold. All washouts, gullies, etc. will be regraded and reseeded by the Contractor. Site grading shall not proceed until erosion control measures have been installed.

The Contractor's responsibility for erosion control shall extend throughout the construction process. The Contractor shall be responsible for clean-up of paved surfaces within and adjacent to the project on a timely basis and/or at the direction of the Engineer, or City of Aurora.

All construction will adhere to the requirements set forth in the IEPA's General NPDES Permit for Stormwater Discharge from construction site activities.

For all drainage structures in the disturbed areas, inlet protection shall be placed and maintained by the Contractor until vegetation is established, as determined by the City of Aurora.

Erosion control measures must be inspected weekly and after every storm of one half inch of rainfall or greater by the Contractor. An inspection report must be submitted by the Contractor to the City of Aurora following each inspection. Any

repairs or replacement needed to ensure adequate erosion control must be made immediately at the Contractor's expense.

Construction & Silt fencing must be installed prior to starting construction.

- TOPSOIL PLACEMENT. Contractor shall place stockpiled topsoil or imported material on all disturbed areas with a minimum 6" topsoil raked smooth to be ready for landscaping (seeding, sod, etc.).

- No construction plans shall be used for construction unless specifically marked "For Construction." Prior to commencement of construction, the Contractor shall verify all dimensions and conditions affecting their work with the actual conditions at the job site. If there are any discrepancies from what is shown on the construction plans, he must immediately report same to the Engineer before doing any work, otherwise the Contractor assumes full responsibility. In the event of disagreement between the construction plans, standard specifications and/or special details, the Contractor shall secure written instructions from the Engineer prior to proceeding with any part of the work affected by omissions or discrepancies. Failing to secure such instructions, the Contractor will be considered to have proceeded at his own risk and expense. In the event of any doubt or question arising with respect to the true meaning of the construction plans or specifications, the decision of the Engineer shall be final and conclusive.

10. INDEMNIFICATION

Contractor shall provide indemnification as per Article 107.26 of the Standard Specifications. All costs for insurance shall be considered incidental to the contract.

ADDITIONAL REQUIREMENTS: The Contractor shall also indemnify and hold harmless, HR Green, Inc., the Consultant selected for Construction Engineering Services (HR Green, Inc.), City of Aurora, its officers, employees, agents, and subcontractors. The Contractor shall not commence work until additional indemnification requirements have been obtained under this paragraph.

11. INSURANCE AND LIABILITY

Contractor shall provide insurance coverage as per Article 107.27 of the Standard Specifications. All costs for insurance shall be considered incidental to the contract.

The "District" shall be taken to mean City of Aurora. The policy of insurance shall include HR Green, Inc., the Consultant selected for Construction Engineering Services (HR Green, Inc.), City of Aurora, and it's Agents as an additional insured or provide separate coverage with an Owner's Protective Policy, as per the amounts stated in the Standard Specifications. No work shall begin until the certificate of insurance is on file with the Engineer.

ADDITIONAL REQUIREMENTS: The Contractor shall secure and maintain such insurance from an insurance company authorized to write casualty insurance in the State where the work is located and also will protect and list as additional insured, HR Green, Inc., the Consultant selected for Construction Engineering Services (yet to be determined), City of Aurora, and his subcontractors and his employees from claims for bodily injury, death or property damage which may arise from improvements on the property. The Contractor shall not commence work until he/she has obtained all insurance required under this paragraph and filed the certificate of insurance or the certified copy of the insurance policy.

12. SITE CLEAN UP

When construction operations take place adjacent to public roadways the contractor shall be responsible for removal of all loose debris deposited on the pavement. The stock piling of spoils from foundations or utility excavations will not be allowed on the pavement or in special management areas such as floodplains or wetlands.

13. LANDSCAPING & RESTORATION

The contractor shall take care in grading near trees, shrubs and bushes which are not to be removed so as not to cause injury to the roots, trunks or limbs. This work shall be included and paid for as "Tree Protection." Saw cutting of tree roots shall be considered incidental to the contract.

The contractor shall make every effort to avoid disturbing any existing landscaping, landscaping appurtenances, walkways, retaining walls, etc. that are not marked for removal on the plans. If damage occurs, the contractor shall replace, in kind, the item or items at his/her expense in a manner meeting with the approval of the Engineer. All vegetation being removed shall be replaced with the same size and type. No additional compensation will be allowed for damaged items.

14. STAKING

The contractor shall be responsible for establishing construction staking for the project site which will be paid for as a lump sum item, CONSTRUCTION STAKING LAYOUT. The Contractor shall protect and carefully preserve all section or subsection monuments or property or reference markers until the Owner, his agent or an authorized surveyor has witnessed or otherwise referenced their locations

The Engineer shall be responsible for providing electronic files to help facilitate the contractor's construction staking.

All elevations are on U.S.G.S. Datum. (NAVD 88)

15. MISCELLANEOUS

All work performed relative to this improvement shall comply with all applicable rules and regulations of O.S.H.A.

All construction personnel will be required to wear a safety vest, complying with the latest O.S.H.A. requirements, at all times while at the construction site. Compliance with this requirement shall be considered as incidental to the contract.

Unless otherwise indicated, the cost of all materials required and all labor necessary to comply with the above provisions will not be paid for separately, but shall be considered as included in the unit bid prices of the contract, and no additional compensation will be allowed.

The Contractor shall be responsible for the installation and maintenance of adequate signs, traffic control devices, and warning devices to inform and protect the public during all phases of construction. See Special Provisions. This work be measured and paid for as Traffic Control and Protection, (Special), Unless Noted Otherwise

Part of the proposed project is located within a flood hazard area, wetlands and Waters of the United States.

The contractor shall confine their grading operations to within construction limits and easements shown on the plans. Any damage to properties outside the site boundary shall be at the sole responsibility of the contractor.

The contractor shall apply necessary moisture control to the construction area and haul roads to prevent the spread of dust.

All field tiles encountered shall be replaced and/or connected to the storm sewer system and located and identified on the record plans by the contractor.

All storm drainage construction shall be performed in accordance with the City of Aurora.

Elevations and contours are to state plane coordinates per NAVD 88 datum.

1 week prior to construction within City row or any connection to public sewers, contractor shall notify the appropriate City engineering divisions (see contact information on cover sheet of this plan set).

The contractor shall not disturb desirable grass areas and desirable trees outside the construction units. The contractor shall not be permitted to park or service vehicles and equipment or store materials in areas outside of the optional staging area shown in plan. Requests for additional storage, parking and service areas will be subject to the approval of the owner.

The contractor is responsible for replacing any areas of pavement or sidewalk not to be removed that is damaged due to operating equipment on the pavement or sidewalk.

The contractor may be required to place temporary warning devices and safety fence at certain locations where replacement features are not installed the same day, as directed by the engineer or the Owner.

All construction within public row/easements and/or any connection to public sewers and streets, shall comply with the City construction specifications for subdivisions and latest edition of IDOT design standards

The Kane-DuPage Soil and Water Conservation District (KDSWCD) must be notified one week prior to the pre-construction conference, one week prior to the commencement of land-disturbing activities, and one week prior to the final inspection.

Prior to the commencing of land-disturbing activities in areas other than indicated on these plans (including but not limited to, additional phases of development and off-site borrow or waste areas) a supplementary erosion control plan shall be submitted to the owner for review by the KDSWCD.

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: Illinois Professional Design Firm
 CLIENT: #184.001322
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PLOT DATE = 5/31/2024	DATE – 10/05/2021	REVISED –

**CITY OF AURORA
 MASTODON LAKE
 SHORELINE RESTORATION PROJECT**

SCALE: N.T.S.	SHEET NO. 01 OF 03 SHEETS	STA. TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	03
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

	PAY ITEM #	CODED PAY ITEMS	UNITS	QUANTITY
1	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
2	67100100	MOBILIZATION	L SUM	1
3	SPECIAL	EARTH EXCAVATION SPECIAL - SHORELINE SHAPING	FOOT	1,073
4	21400100	GRADING AND SHAPING DITCHES	FOOT	125
5	SPECIAL	PIPE CULVERTS TO BE CLEANED - 12"	FOOT	22
6	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	50
7	28000400	PERIMETER EROSION BARRIER	FOOT	3,757
8	28000305	TEMPORARY DITCH CHECKS	FOOT	200
9	25100115	MULCH, METHOD 2	ACRE	1.00
10	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100
11	28000500	INLET AND PIPE PROTECTION	EACH	18
12	SPECIAL	COIR LOG - TOE OF SLOPE PROTECTION	FOOT	2,275
13	20101100	TREE TRUNK PROTECTION	EACH	10
14	X2010400	STUMP REMOVAL ONLY	UNIT	80
15	X0322671	TEMPORARY CONSTRUCTION ENTRANCE	EACH	2
16	28100705	STONE RIPRAP, CLASS A3	SQ YD	236
17	SPECIAL	LIMESTONE OUTCROPPING	EACH	4
18	K0012950	HERBICIDE APPLICATION	ACRE	6.22
19	SPECIAL	NATURAL STONE BOULDERS (12" DIA MIN.)	SQ YD	196
20	XX006144	SEEDING (SPECIAL), MESIC PRAIRIE	ACRE	2.58
21	XX006145	SEEDING (SPECIAL), WET MESIC	ACRE	3.64
22	SPECIAL	SEEDING - AURORA MIX	ACRE	1.00
23	K0013030	PERENNIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG	EACH	3,200
24	K0013000	PERENNIAL PLANTS, PRAIRIE TYPE, 2" DIAMETER BY 4" DEEP PLUG	EACH	3,800
25	25301700	SHRUBS - CORAL BERRY, 5 GAL CONTAINER	EACH	55
26	SPECIAL	PERIMETER EXCLUSION BARRIER - WILDLIFE EXCLUSION	FOOT	6,694
27	25100630	EROSION CONTROL BLANKET, S75	SQ YD	7,405
28	25100635	HEAVY DUTY EROSION CONTROL BLANKET - C125-BN	SQ YD	1,468
29	25100635	HEAVY DUTY EROSION CONTROL BLANKET - SC150-BN	SQ YD	4,972
30	25100125	MULCH, METHOD 3	ACRE	1.00
31	SPECIAL	SELECTIVE MOWING STAKES SPECIAL	EACH	36
32	SPECIAL	MONITORING AND MAINTENANCE	YEAR	5
33	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
34	20101700	SUPPLEMENTAL WATERING	MONTH	3
35	SPECIAL	ITEMS ORDERED BY ENGINEER	EACH	50,000

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
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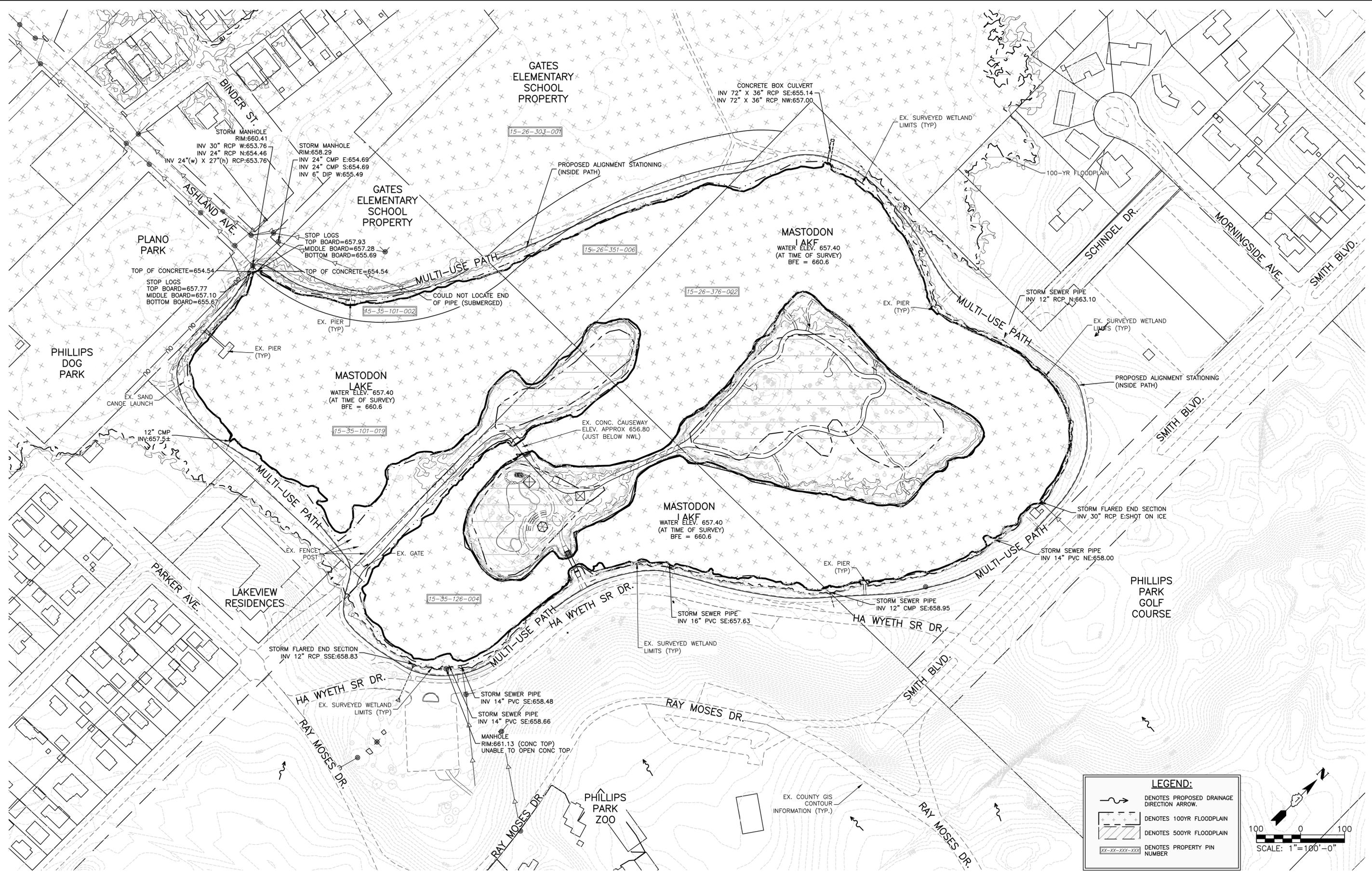
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PLOT DATE = 5/31/2024	DATE - 10/05/2021	REVISED -

**CITY OF AURORA
 MASTODON LAKE
 SHORELINE RESTORATION PROJECT**

SUMMARY OF QUANTITIES

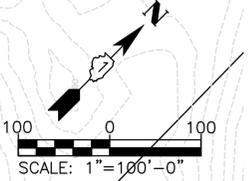
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	04
CONTRACT NO. _____				
ILLINOIS FED. AID PROJECT				



LEGEND:

- DENOTES PROPOSED DRAINAGE DIRECTION ARROW.
- DENOTES 100YR FLOODPLAIN
- DENOTES 500YR FLOODPLAIN
- DENOTES PROPERTY PIN NUMBER



COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
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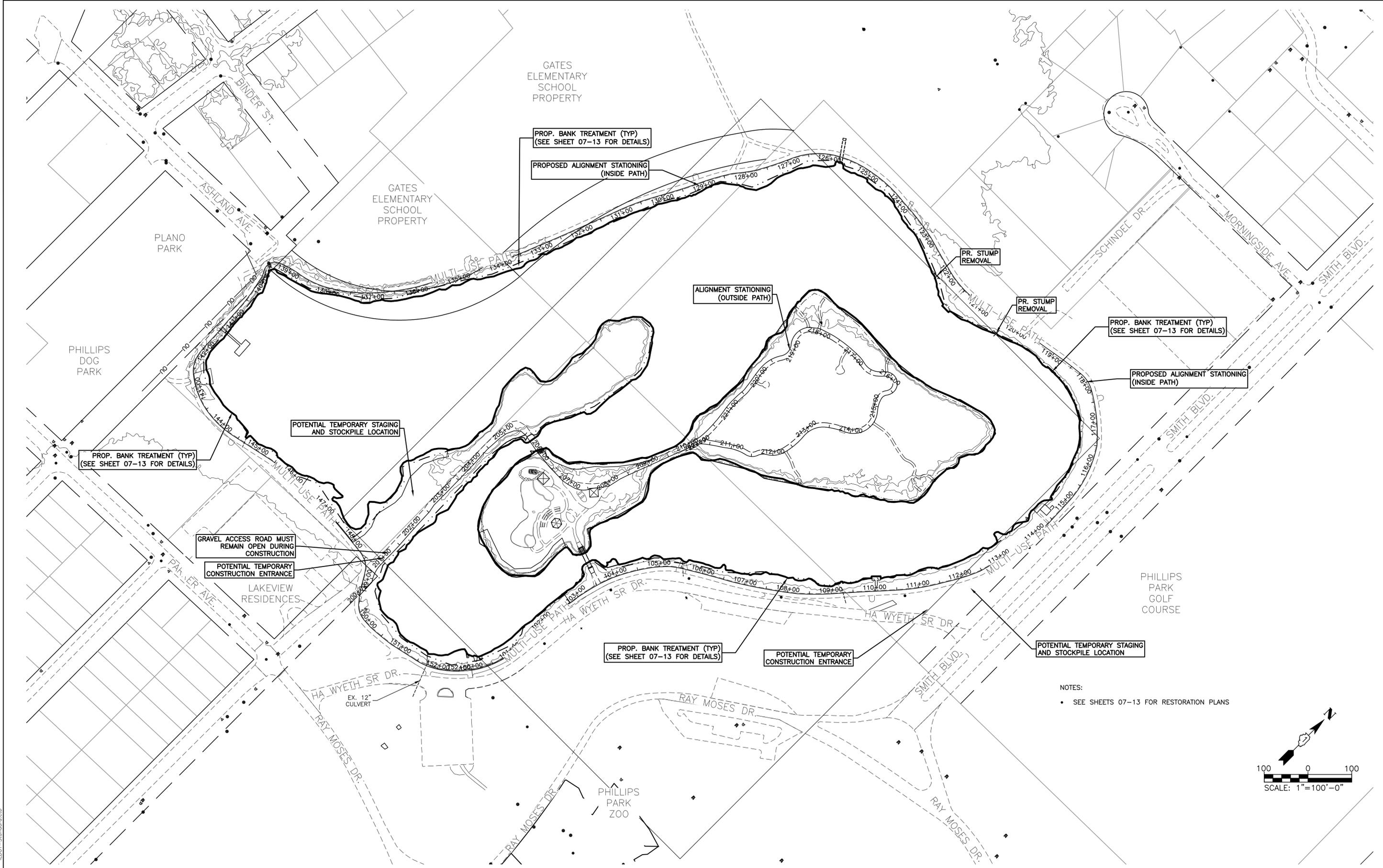


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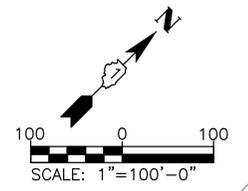
CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

OVERALL EXISTING CONDITIONS PLAN		
SCALE: 1"=100'	SHEET NO. 01 OF 01 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	05
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



NOTES:
 • SEE SHEETS 07-13 FOR RESTORATION PLANS



COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
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**CITY OF AURORA
 MASTODON LAKE
 SHORELINE RESTORATION PROJECT**

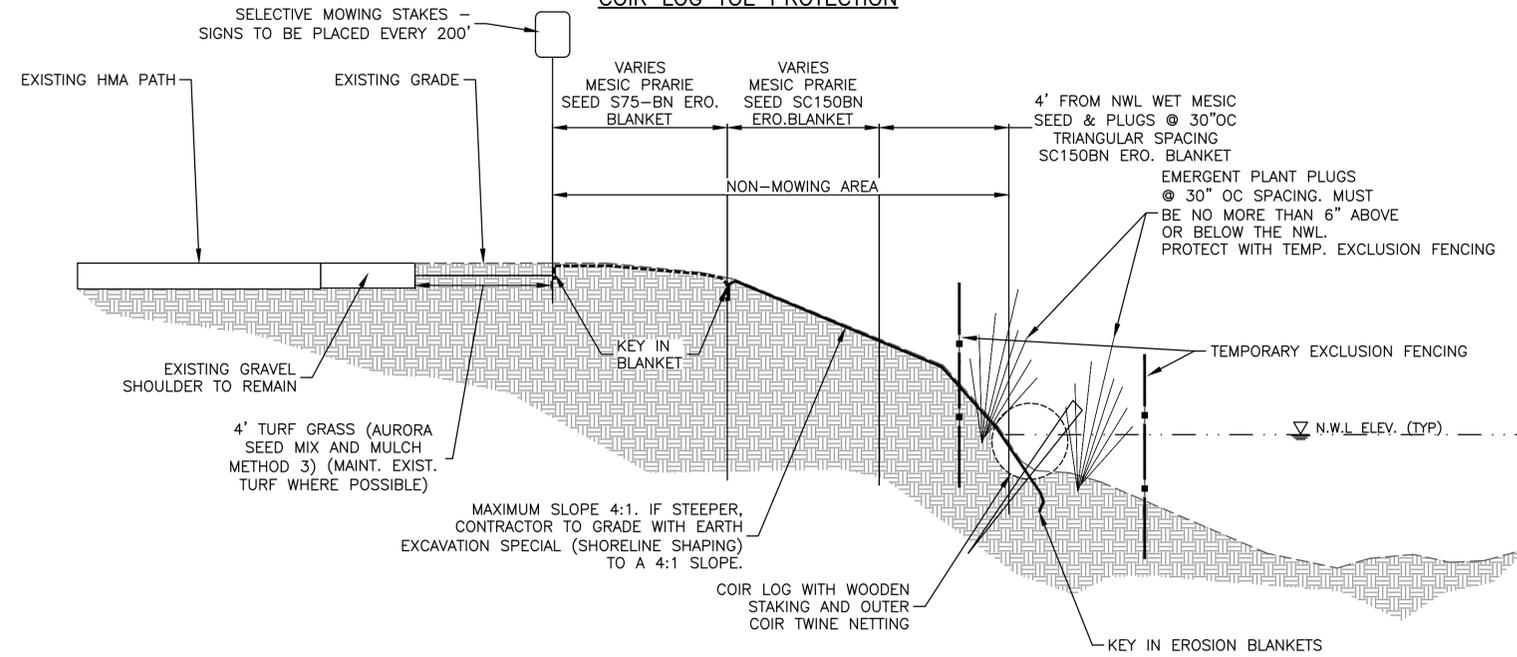
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	06
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

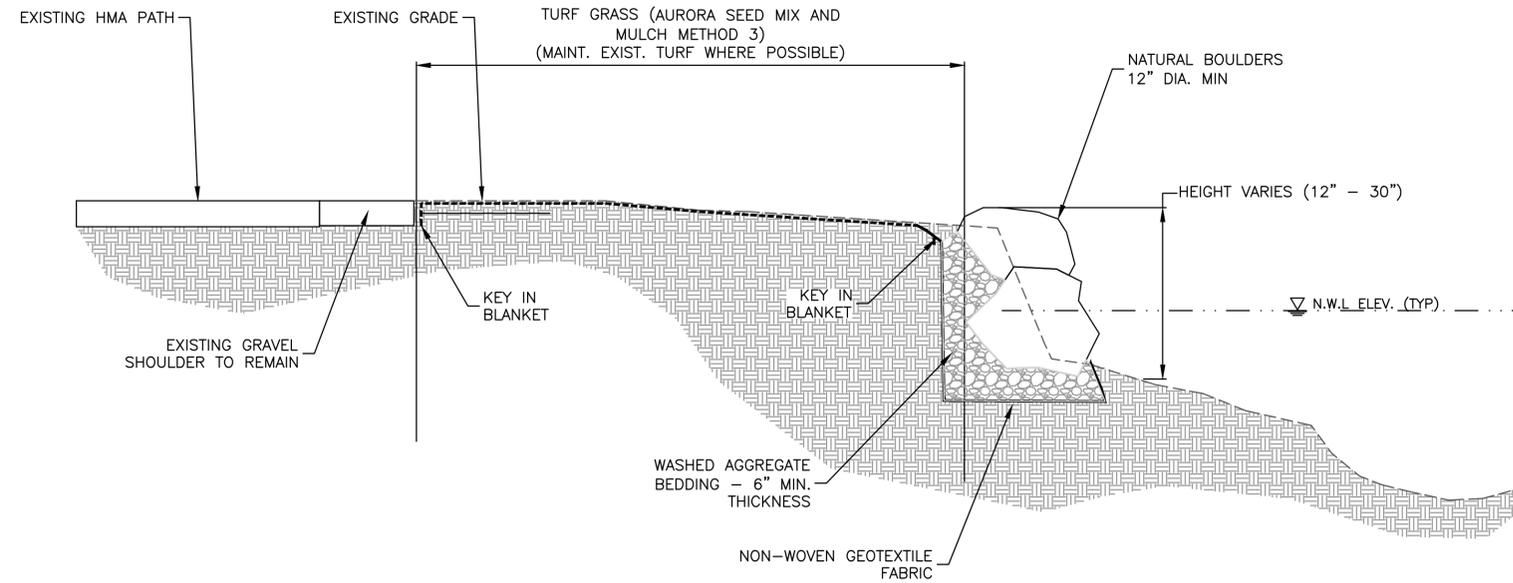
TEMPORARY EXCLUSION FENCING EXAMPLE



**BANK TREATMENT TYPICAL #1
COIR LOG TOE PROTECTION**



**BANK TREATMENT TYPICAL #2
STONE TOE WATER ACCESS**



- NOTES:
- 100 YEAR HWL = 660.6
 - CONTRACTOR TO REGRADE SLOPE BANKS GREATER THAN 4:1 TO A 4:1 SLOPE MIN. FROM WATERS EDGE BACK TO EXISTING GRADE. (TO BE PAID FOR AS EARTH EXCAVATION SPECIAL, SHORELINE SHAPING)

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
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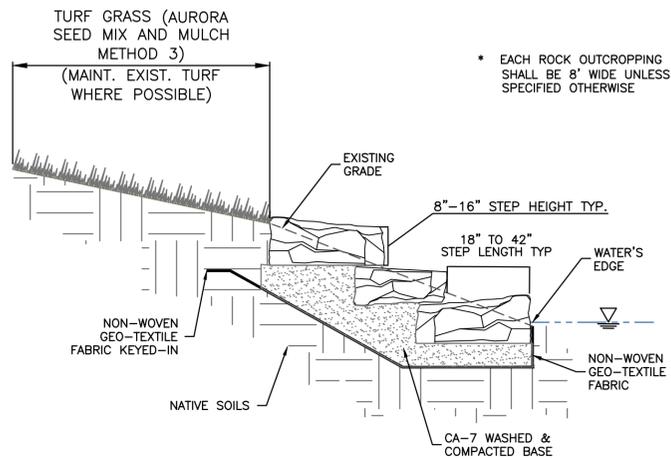
**CITY OF AURORA
 MASTODON LAKE
 SHORELINE RESTORATION PROJECT**

BANK TREATMENT DETAIL

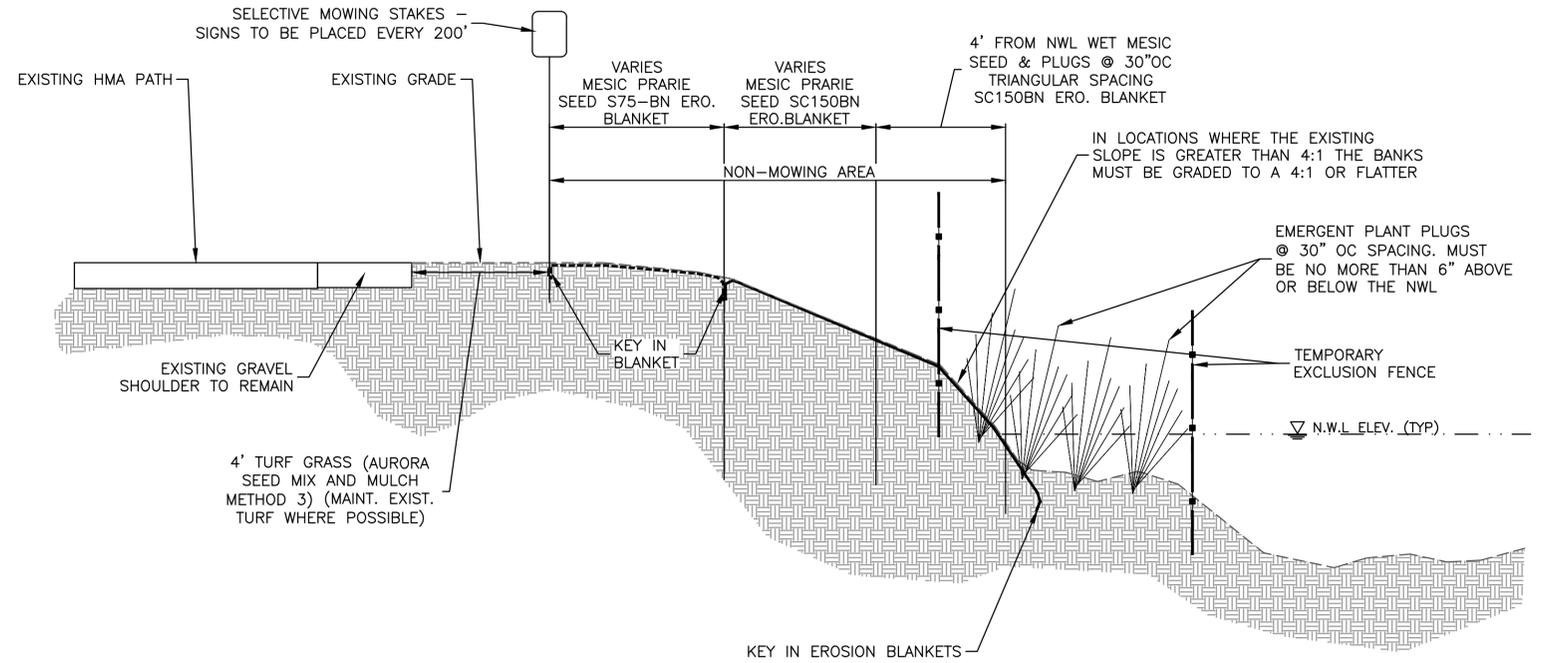
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	07
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

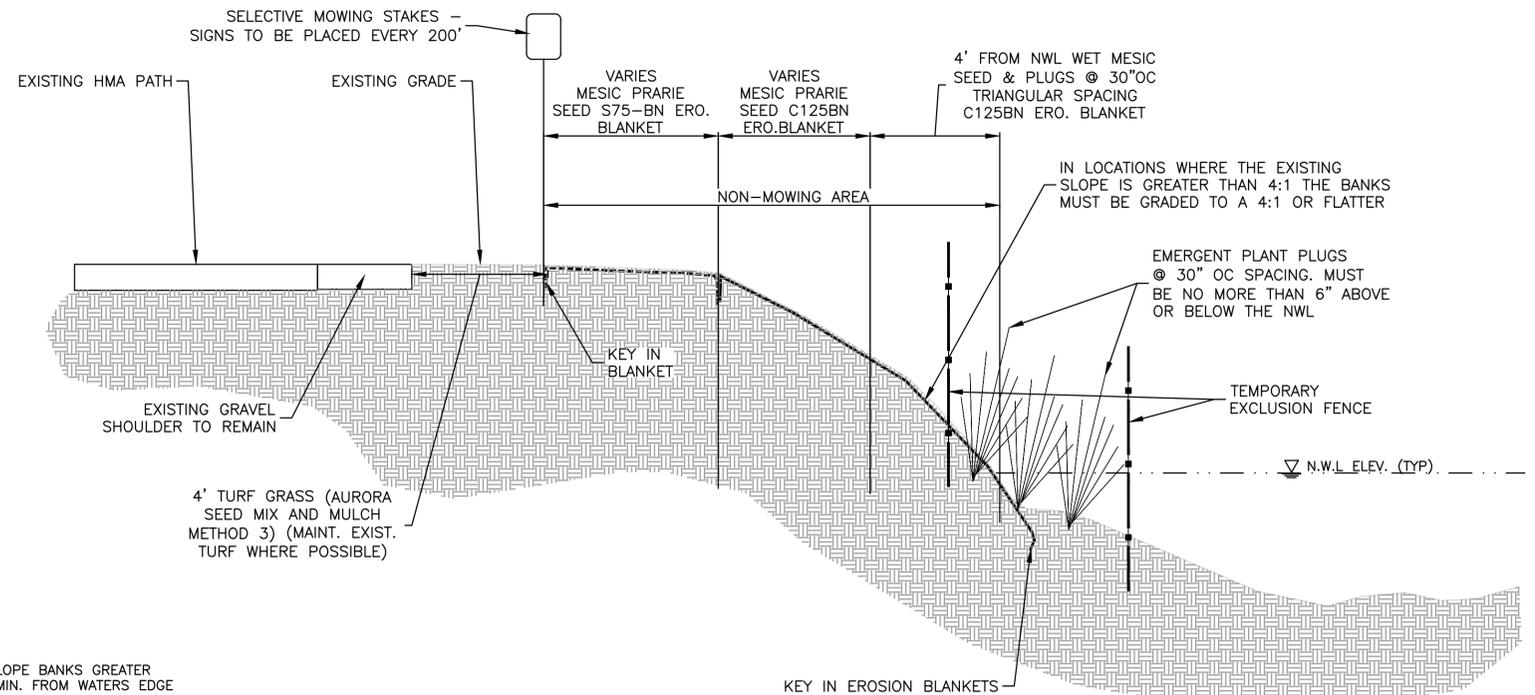
ROCK OUTCROPPING DETAIL



**BANK TREATMENT TYPICAL #3
SHORELINE VEGETATION MANAGEMENT**



**BANK TREATMENT TYPICAL #4
STEEP SHORELINE VEGETATION MANAGEMENT**



- NOTES:
- 100 YEAR HWL = 660.6
 - CONTRACTOR TO REGRADE SLOPE BANKS GREATER THAN 4:1 TO A 4:1 SLOPE MIN. FROM WATER'S EDGE BACK TO EXISTING GRADE. (TO BE PAID FOR AS EARTH EXCAVATION SPECIAL, SHORELINE SHAPING)

COMPANY NAME: HRGreen.com
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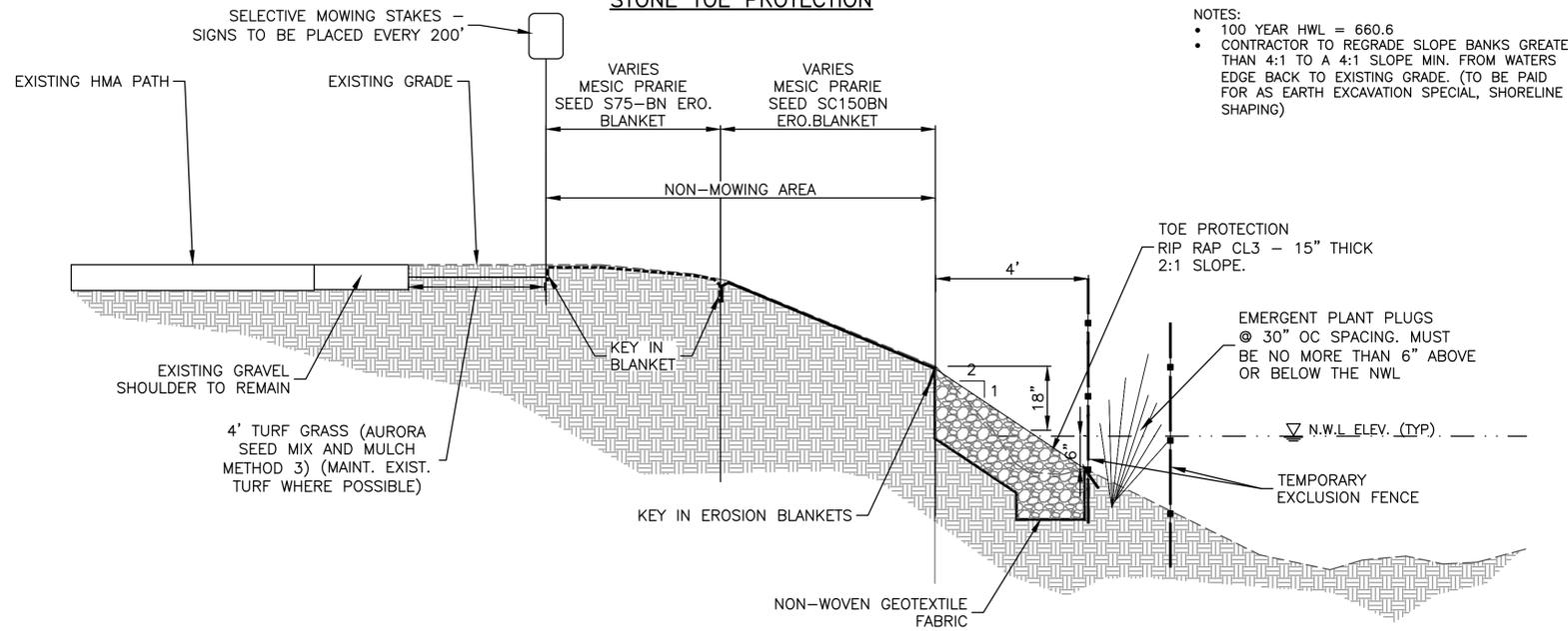
**CITY OF AURORA
 MASTODON LAKE
 SHORELINE RESTORATION PROJECT**

BANK TREATMENT DETAIL

SCALE: N.T.S. SHEET NO. 01 OF 01 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	08
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**BANK TREATMENT TYPICAL #5
STONE TOE PROTECTION**



- NOTES:
- 100 YEAR HWL = 660.6
 - CONTRACTOR TO REGRADE SLOPE BANKS GREATER THAN 4:1 TO A 4:1 SLOPE MIN. FROM WATERS EDGE BACK TO EXISTING GRADE. (TO BE PAID FOR AS EARTH EXCAVATION SPECIAL, SHORELINE SHAPING)

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 5/31/2024 8:09 AM
 FILE NAME: 191806-Typical_Sections
 PLOT DRIVER: DWG To PDF.pc3
 PEN TABLE: SEC-Standard.ctb



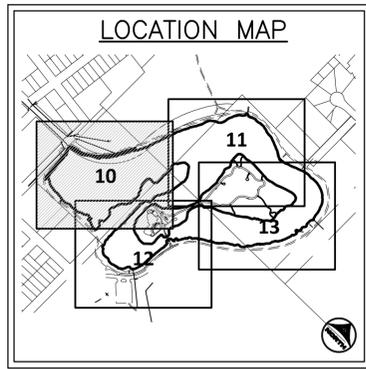
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FILE NAME = 191806-Typical_Sections	DRAWN - MPL	REVISED -
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PLOT DATE = 5/31/2024	DATE - 10/05/2021	REVISED -

**CITY OF AURORA
 MASTODON LAKE
 SHORELINE RESTORATION PROJECT**

BANK TREATMENT DETAIL

SCALE: N.T.S. SHEET NO. 01 OF 01 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	09
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

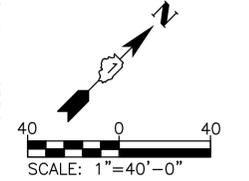


RESTORATION LEGEND:

	INDICATES EROSION CONTROL MEASURE (SEE SHEET 14 FOR EROSION CONTROL LEGEND)
	INDICATES AREAS OF PHRAGMITES SHALL BE TREATED WITH HERBICIDE AND ERADICATED FROM THE ENTIRE SHORELINE
	INDICATES TURF GRASS SEED (AURORA SEED MIX AND MULCH METHOD 3)(SEE SPECIFICATIONS)
	INDICATES BANK TREATMENT TYPICAL SECTION 1 (SEE SHEET 07 FOR DETAILS)
	INDICATES BANK TREATMENT TYPICAL SECTION 2 (SEE SHEET 07 FOR DETAILS)
	INDICATES BANK TREATMENT TYPICAL SECTION 3 (SEE SHEET 08 FOR DETAILS)
	INDICATES BANK TREATMENT TYPICAL SECTION 4 (SEE SHEET 08 FOR DETAILS)
	INDICATES BANK TREATMENT TYPICAL SECTION 5 (SEE SHEET 09 FOR DETAILS)
	INDICATES ROCK OUTCROPPING AREA (SEE SHEET 08 FOR DETAILS)
	INDICATES PROPOSED RIPRAP AREA CL-A3 (SEE DETAILS)
	INDICATES PROPOSED SHRUB TO BE PLANTED - CORAL BERRY (SYMPHORICARPOS ORBICULATUS)
	DENOTES EX. TOP OF GROUND CONTOUR MAJOR/MINOR
	DENOTES EX. TOP OF SEDIMENT CONTOUR MAJOR/MINOR
	CONTRACTOR TO REGRADE SLOPE BANKS GREATER THAN 4:1 TO A 4:1 SLOPE MIN. FROM WATERS EDGE BACK TO EXISTING GRADE. (TO BE PAID FOR AS EARTH EXCAVATION SPECIAL, SHORELINE SHAPING)



- NOTES:
- ALL PHRAGMITES SHALL BE TREATED WITH HERBICIDE AND FULLY ERADICATED FROM THE SHORELINE. THIS APPLIES TO THE OUTER SHORELINE AND THE ISLANDS.
 - ALL TREES ARE TO REMAIN UNLESS OTHERWISE NOTED. BANK TREATMENTS SHALL BE INSTALLED TO MINIMIZE IMPACTS TO THE ROOT STRUCTURE.
 - SEE SHEET 18 FOR SEED/PLUG PLANTINGS AND SEEDING MIXTURES



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 5/31/2024 8:10 AM
 FILE NAME: 191806-Restoration-Plan
 PLOT DRIVER: DWG To PDF.pc3
 PEN TABLE: ILDOT-Standard.ctb



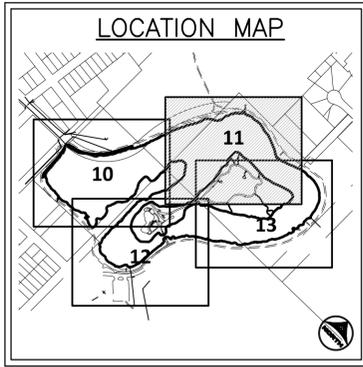
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FILE NAME = 191806-Restoration-Plan	DRAWN - MPL	REVISED -
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PLOT DATE = 5/31/2024	DATE - 10/05/2021	REVISED -

**CITY OF AURORA
 MASTODON LAKE
 SHORELINE RESTORATION PROJECT**

RESTORATION PLAN

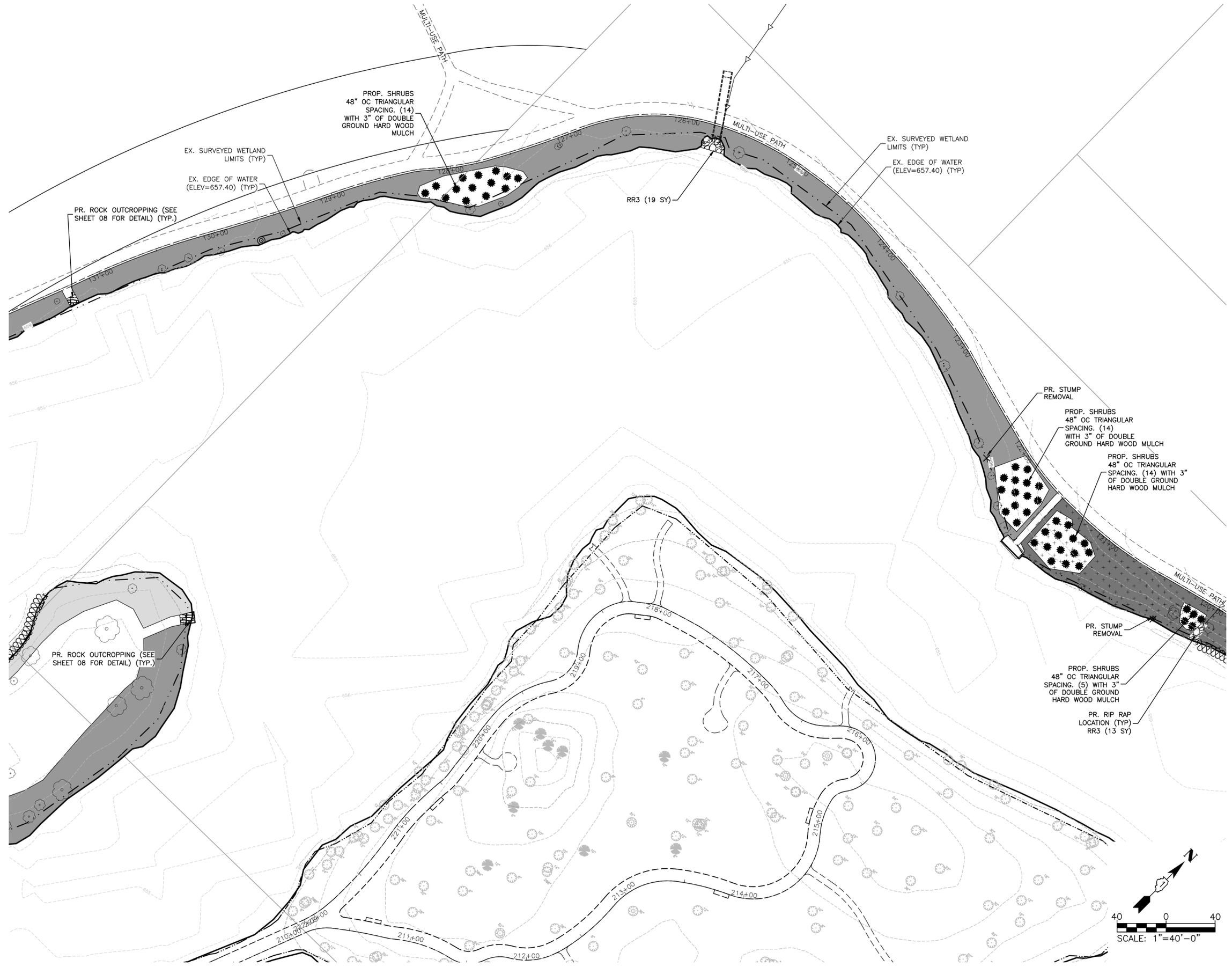
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	10
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

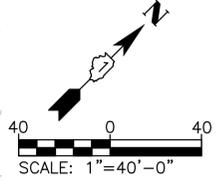


RESTORATION LEGEND:

	INDICATES EROSION CONTROL MEASURE (SEE SHEET 14 FOR EROSION CONTROL LEGEND)
	INDICATES AREAS OF PHRAGMITES SHALL BE TREATED WITH HERBICIDE AND ERADICATED FROM THE ENTIRE SHORELINE
	INDICATES TURF GRASS SEED (AURORA SEED MIX AND MULCH METHOD 3)(SEE SPECIFICATIONS)
	INDICATES BANK TREATMENT TYPICAL SECTION 1 (SEE SHEET 07 FOR DETAILS)
	INDICATES BANK TREATMENT TYPICAL SECTION 2 (SEE SHEET 07 FOR DETAILS)
	INDICATES BANK TREATMENT TYPICAL SECTION 3 (SEE SHEET 08 FOR DETAILS)
	INDICATES BANK TREATMENT TYPICAL SECTION 4 (SEE SHEET 08 FOR DETAILS)
	INDICATES BANK TREATMENT TYPICAL SECTION 5 (SEE SHEET 09 FOR DETAILS)
	INDICATES ROCK OUTCROPPING AREA (SEE SHEET 08 FOR DETAILS)
	INDICATES PROPOSED RIPRAP AREA CL-A3 (SEE DETAILS)
	INDICATES PROPOSED SHRUB TO BE PLANTED - CORAL BERRY (SYMPHORICARPOS ORBICULATUS)
	DENOTES EX. TOP OF GROUND CONTOUR MAJOR/MINOR
	DENOTES EX. TOP OF SEDIMENT CONTOUR MAJOR/MINOR
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- NOTES:**
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 - SEE SHEET 18 FOR SEED/PLUG PLANTINGS AND SEEDING MIXTURES



COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
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 FILE NAME: 191806-Restoration-Plan
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 PEN TABLE: ILDOT-Standard.ctb

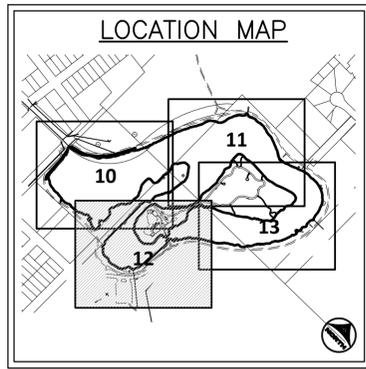


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FILE NAME = 191806-Restoration-Plan	DRAWN - MPL	REVISED -
PLOT SCALE = 1"=40'	CHECKED - AJ/LG	REVISED -
PLOT DATE = 5/31/2024	DATE - 10/05/2021	REVISED -

CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

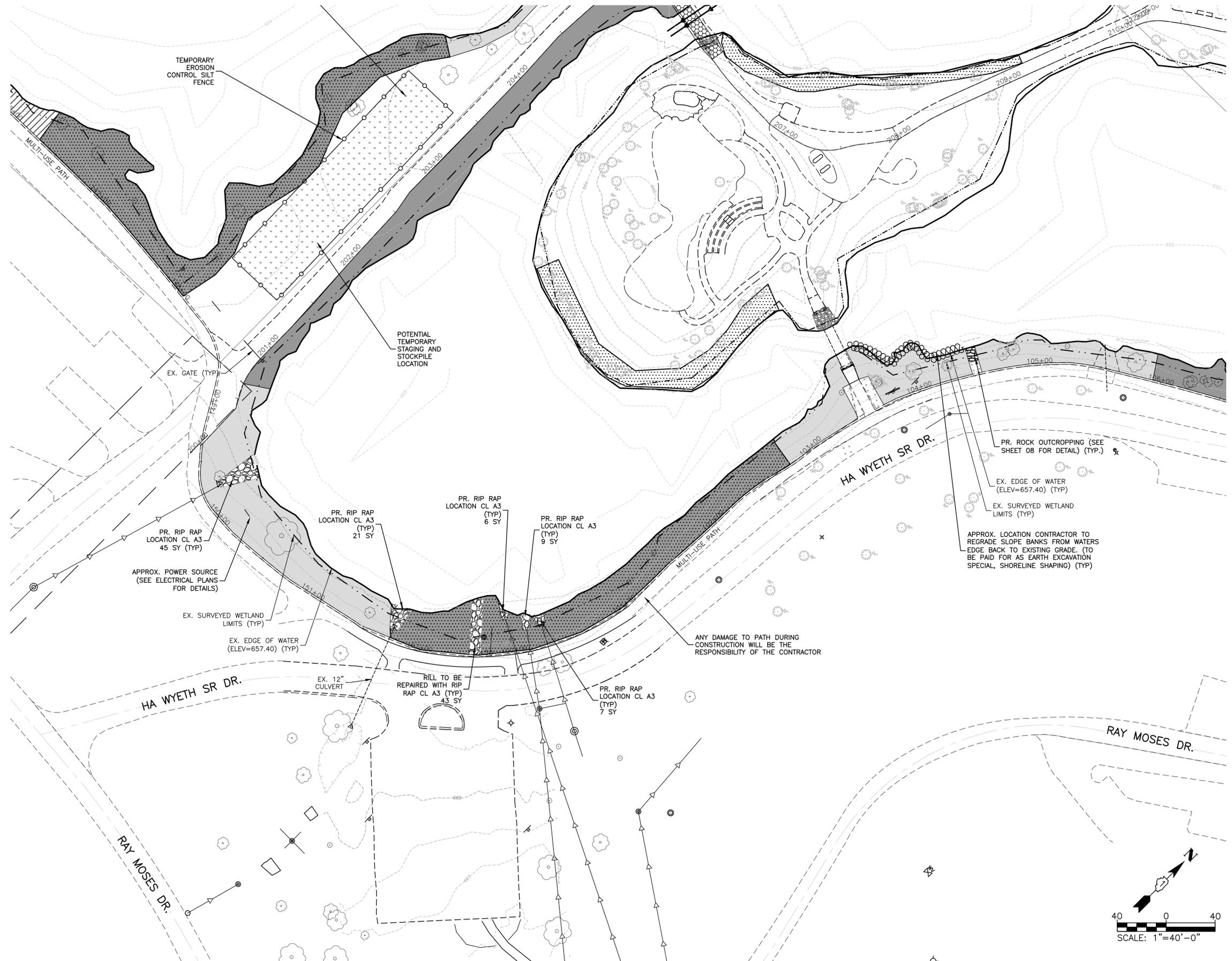
RESTORATION PLAN		
SCALE: 1"=40'	SHEET NO. 01 OF 01 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	11
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



RESTORATION LEGEND:

- INDICATES EROSION CONTROL MEASURE (SEE SHEET 14 FOR EROSION CONTROL LEGEND)
- [Stippled Area] INDICATES AREAS OF PHRAGMITES SHALL BE TREATED WITH HERBICIDE AND ERADICATED FROM THE ENTIRE SHORELINE
- [PS] [Dotted Area] INDICATES TURF GRASS SEED (AURORA SEED MIX AND MULCH METHOD 3)(SEE SPECIFICATIONS)
- [PS] [Horizontal Lines] INDICATES BANK TREATMENT TYPICAL SECTION 1 (SEE SHEET 07 FOR DETAILS)
- [PS] [Diagonal Lines] INDICATES BANK TREATMENT TYPICAL SECTION 2 (SEE SHEET 07 FOR DETAILS)
- [PS] [Vertical Lines] INDICATES BANK TREATMENT TYPICAL SECTION 3 (SEE SHEET 08 FOR DETAILS)
- [PS] [Cross-hatch] INDICATES BANK TREATMENT TYPICAL SECTION 4 (SEE SHEET 08 FOR DETAILS)
- [PS] [Wavy Lines] INDICATES BANK TREATMENT TYPICAL SECTION 5 (SEE SHEET 09 FOR DETAILS)
- [RR] [Block Pattern] INDICATES ROCK OUTCROPPING AREA (SEE SHEET 08 FOR DETAILS)
- [RR] [Circular Pattern] INDICATES PROPOSED RIPRAP AREA CL-A3 (SEE DETAILS)
- [Star Symbol] INDICATES PROPOSED SHRUB TO BE PLANTED - CORAL BERRY (SYMPHORICARPOS ORBICULATUS)
- 650--- DENOTES EX. TOP OF GROUND CONTOUR MAJOR/MINOR
- 651--- DENOTES EX. TOP OF SEDIMENT CONTOUR MAJOR/MINOR
- [Wavy Line Symbol] CONTRACTOR TO REGRADE SLOPE BANKS GREATER THAN 4:1 TO A 4:1 SLOPE MIN. FROM WATERS EDGE BACK TO EXISTING GRADE. (TO BE PAID FOR AS EARTH EXCAVATION SPECIAL, SHORELINE SHAPING)



PR. ROCK OUTCROPPING (SEE SHEET 08 FOR DETAIL) (TYP.)

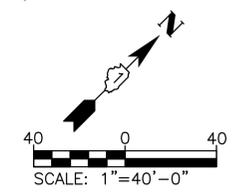
EX. EDGE OF WATER (ELEV=657.40) (TYP)

EX. SURVEYED WETLAND LIMITS (TYP)

APPROX. LOCATION CONTRACTOR TO REGRADE SLOPE BANKS FROM WATERS EDGE BACK TO EXISTING GRADE. (TO BE PAID FOR AS EARTH EXCAVATION SPECIAL, SHORELINE SHAPING) (TYP)

ANY DAMAGE TO PATH DURING CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR

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 - SEE SHEET 18 FOR SEED/PLUG PLANTINGS AND SEEDING MIXTURES



COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 5/31/2024 8:10 AM
 FILE NAME: 191806-Restoration-Plan
 PLOT DRIVER: DWG To PDF.pc3
 PEN TABLE: ILDOT-Standard.ctb



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FILE NAME = 191806-Restoration-Plan	DRAWN - MPL	REVISED -
PLOT SCALE = 1"=40'	CHECKED - AJ/LG	REVISED -
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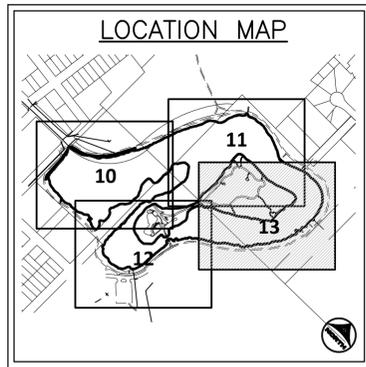
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**CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT**

RESTORATION PLAN		
SCALE: 1"=40'	SHEET NO. 01 OF 01 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	12
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

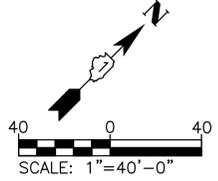


RESTORATION LEGEND:

- INDICATES EROSION CONTROL MEASURE (SEE SHEET 14 FOR EROSION CONTROL LEGEND)
- [Pattern] INDICATES AREAS OF PHRAGMITES SHALL BE TREATED WITH HERBICIDE AND ERADICATED FROM THE ENTIRE SHORELINE
- [PS] [Pattern] INDICATES TURF GRASS SEED (AURORA SEED MIX AND MULCH METHOD 3)(SEE SPECIFICATIONS)
- [PS] [Pattern] INDICATES BANK TREATMENT TYPICAL SECTION 1 (SEE SHEET 07 FOR DETAILS)
- [PS] [Pattern] INDICATES BANK TREATMENT TYPICAL SECTION 2 (SEE SHEET 07 FOR DETAILS)
- [PS] [Pattern] INDICATES BANK TREATMENT TYPICAL SECTION 3 (SEE SHEET 08 FOR DETAILS)
- [PS] [Pattern] INDICATES BANK TREATMENT TYPICAL SECTION 4 (SEE SHEET 08 FOR DETAILS)
- [PS] [Pattern] INDICATES BANK TREATMENT TYPICAL SECTION 5 (SEE SHEET 09 FOR DETAILS)
- [RR] [Pattern] INDICATES ROCK OUTCROPPING AREA (SEE SHEET 08 FOR DETAILS)
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- [Star] INDICATES PROPOSED SHRUB TO BE PLANTED - CORAL BERRY (SYMPHORICARPOS ORBICULATUS)
- 650--- DENOTES EX. TOP OF GROUND CONTOUR MAJOR/MINOR
- 651--- DENOTES EX. TOP OF SEDIMENT CONTOUR MAJOR/MINOR
- [Wavy] CONTRACTOR TO REGRADE SLOPE BANKS GREATER THAN 4:1 TO A 4:1 SLOPE MIN. FROM WATERS EDGE BACK TO EXISTING GRADE. (TO BE PAID FOR AS EARTH EXCAVATION SPECIAL, SHORELINE SHAPING)



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COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 5/31/2024 8:10 AM
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 CLIENT: HRGreen
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HRGreen.com
 Illinois Professional Design Firm
 #184.001322

USER NAME = KJENKINS	DESIGNED - LG	REVISED -
FILE NAME = 191806-Restoration-Plan	DRAWN - MPL	REVISED -
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**CITY OF AURORA
 MASTODON LAKE
 SHORELINE RESTORATION PROJECT**

RESTORATION PLAN

SCALE: 1"=40' SHEET NO. 01 OF 01 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	13
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

UNITED STATES ARMY CORPS OF ENGINEERS NOTES:

- EARTHEN COFFERDAMS OR OTHER PRACTICES THAT WOULD RESULT IN A RELEASE OF SEDIMENT INTO WATERS OF THE U.S. ARE NOT AUTHORIZED FOR USE. COFFERDAMS SHALL BE CONSTRUCTED OF NON-ERODIBLE MATERIALS ONLY. ACCEPTABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO: PRE-FABRICATED RIGID COFFERDAMS, SHEET PILING, INFLATABLE BLADDERS, SANDBAGS AND FABRIC-LINED BASINS. 1. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS.
- LOW FLOW CONDITIONS ARE FLOW AT OR BELOW THE NORMAL WATER ELEVATION.
- WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIP RAP AND GEOTEXTILE FABRIC, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
- WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF THE MATERIALS NECESSARY FOR THE CONSTRUCTION OF THE COFFERDAM. THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CAN NOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
- IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.
- DURING DEWATERING OF THE COFFERED AREA, ALL WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.
- THE PORTION OF THE SIDE SLOPE THAT IS ABOVE THE OBSERVED WATER ELEVATION SHALL BE STABILIZED AS SPECIFIED IN THE PLANS PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE AND TOE OF SLOPE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.

CITY STORMWATER PERMIT REQUIREMENTS:

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PREFORMED.
- SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.
- NATIVE SEED MIXTURES SHALL INCLUDE RAPID-GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION.
- OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION.
- SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.
- STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE, OR TEMPORARY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NO LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN THE AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED AS INSTANCES WHEN THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE AND IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.
- DISTURBANCE OF STEEPS SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKING IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR EQUIVALENT CONTROL MEASURE.
- PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.
- THE DRAINAGE SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS. CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES). THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.

- STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY.
- EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO:
 - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER.
- MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORM WATER.
- ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITION OF ALL
 - CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.
- A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURES) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION-SITE OF A MAJOR DEVELOPMENT TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET ALLEY, OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT OF WAY, STREET, ALLEY OR PARKING AREA SHALL BE SCRAPED OR STREET CLEANED AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.
- DRAIN TILE SYSTEMS DISTURBED DURING DEVELOPMENT MUST BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE UNLESS THE APPROVED ENGINEERING PLANS INDICATE HOW THE DRAIN TILE SYSTEM IS TO BE CONNECTED TO THE PROPOSED STORM WATER MANAGEMENT SYSTEM.
- ALL ABANDONED DRAIN TILES SHALL BE REMOVED IN THEIR ENTIRETY.
- DRAIN TILES WITHIN THE DISTURBED AREA OF THE DEVELOPMENT SHALL BE REPLACED, BYPASSED AROUND THE DEVELOPMENT OR INTERCEPTED AND CONNECTED TO THE DRAINAGE SYSTEM FOR THE DEVELOPMENT. THE SIZE OF THE REPLACED OR BYPASSED DRAIN TILE SHALL BE EQUIVALENT TO THE EXISTING DRAIN TILE.
- IN BUFFERS AND WETLANDS, THE EXCAVATED AREAS SHALL BE BACKFILLED WITH NATIVE SOIL IN THE SAME STRATIFICATION IN WHICH THE SOIL WAS REMOVED.
- THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENTATION CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL PRACTICES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION PRACTICES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

STANDARD NOTES:

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL LATEST EDITION.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION.
- ALL DEWATERING OPERATIONS MUST FOLLOW THE ILLINOIS URBAN MANUAL PRACTICE STANDARD 813. DURING DEWATERING OPERATIONS, WATER WILL BE FILTERED OR PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORM WATER STRUCTURES IS PROHIBITED.
- IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- BACKUP BEST MANAGEMENT PRACTICES AND QUANTITIES IN THIS PLAN WILL BE HELD ON SITE FOR IMMEDIATE CORRECTIONAL ACTION IMPLEMENTATION FOLLOWING AN INSTANCE OF NON-COMPLIANCE.
- THE LOCAL WEATHER PROJECTIONS WILL BE CONSIDERED WHEN IMPLEMENTING THE WEEKLY CONSTRUCTION PLANS.
- ALL TRAFFIC GOING IN AND OUT OF THE CONSTRUCTION SITE SHALL BE RESTRICTED TO STABILIZED CONSTRUCTION ENTRANCES.
- ANY INLET FOUND WITHIN 50' OF A CONSTRUCTION ENTRANCE SHALL HAVE PROTECTION MECHANISMS IN PLACE.
- ALL DISTURBED GROUND DIRECTLY UPLAND OF JURISDICTIONAL AREAS SHALL RECEIVE ADEQUATE PROTECTION MEASURES AT THE CONCLUSION OF EACH WORK DAY.
- ALL DEWATERING OPERATIONS SHALL, AT MINIMUM, FOLLOW ILLINOIS URBAN MANUAL PRACTICE STANDARD 813.

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
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 FILE NAME: 191806-Details
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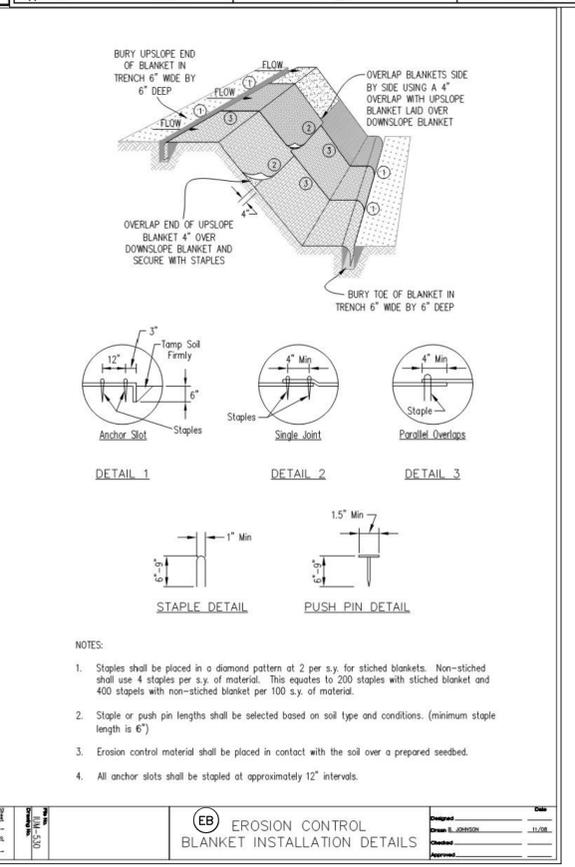
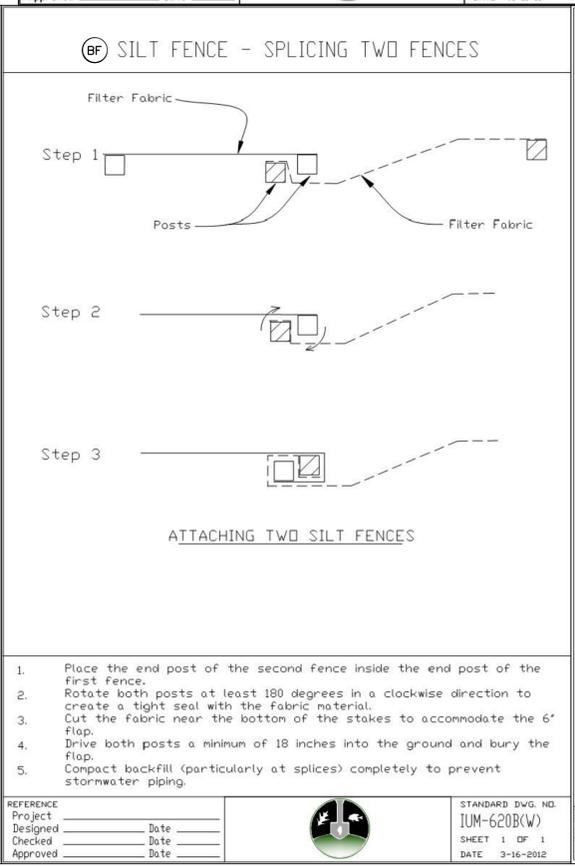
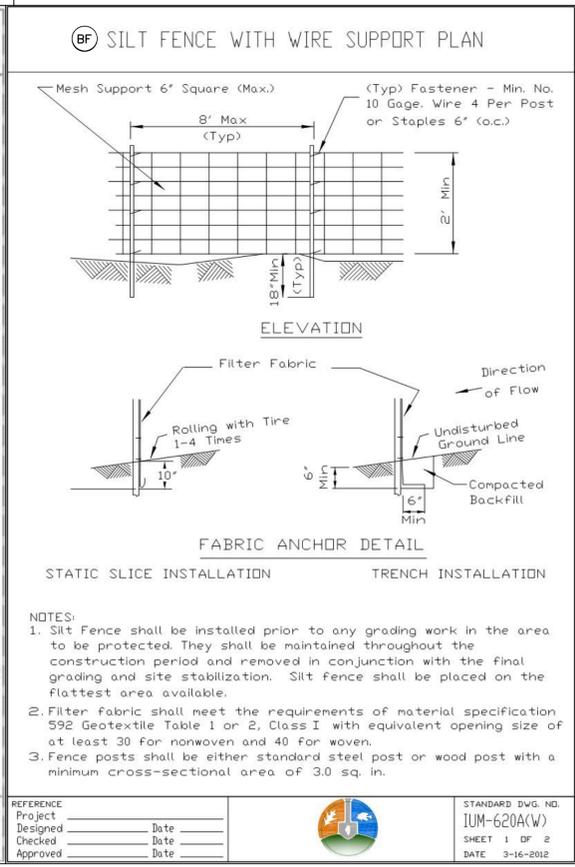
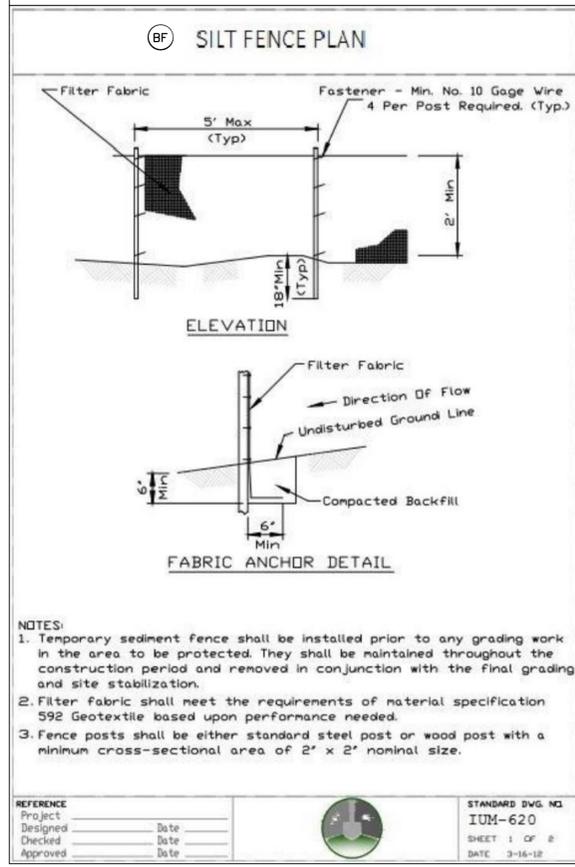
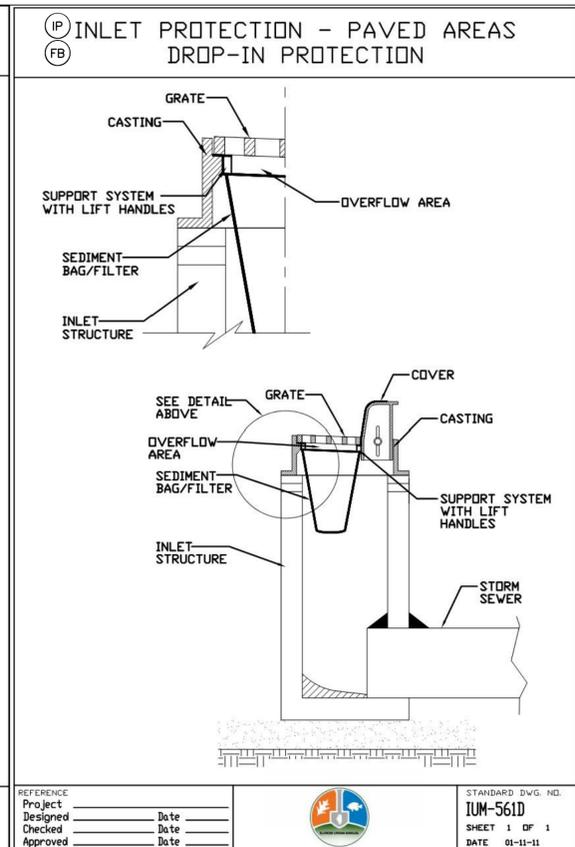
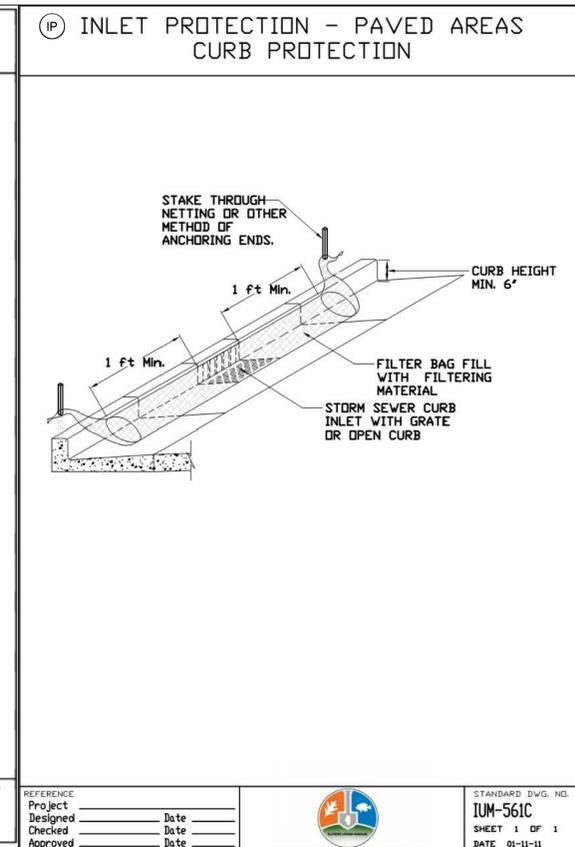
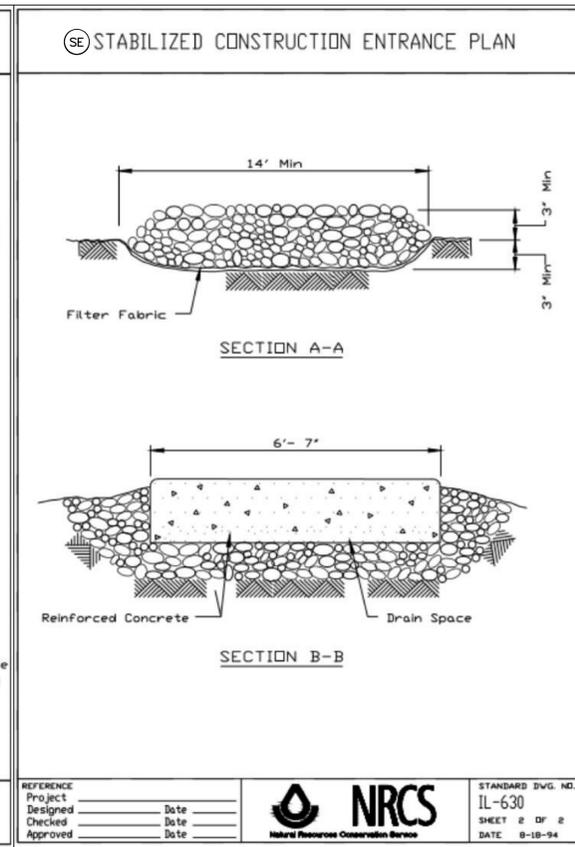
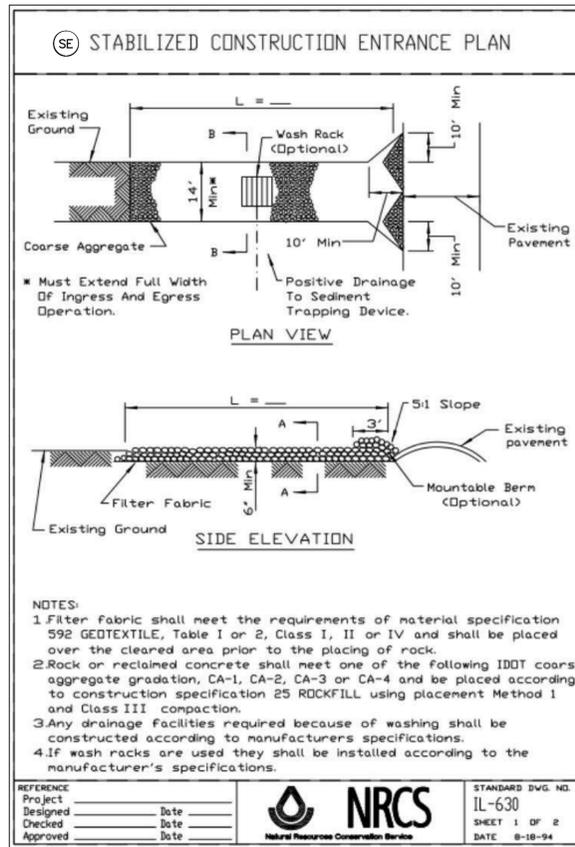
HRGreen.com
 Illinois Professional Design Firm
 #184.001322

USER NAME = KJENKINS	DESIGNED - LG	REVISED -
FILE NAME = 191806-Details	DRAWN - MPL	REVISED -
PLOT SCALE = N.T.S.	CHECKED - AJ/LG	REVISED -
PLOT DATE = 5/31/2024	DATE - 10/05/2021	REVISED -

**CITY OF AURORA
 MASTODON LAKE
 SHORELINE RESTORATION PROJECT**

EROSION CONTROL NOTES	
SCALE: N.T.S.	SHEET NO. 01 OF 04 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	15
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 5/31/2024 8:10 AM
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 PLOT DRIVER: DWG To PDF.pc3
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FILE NAME = 191806-Details	DRAWN - MPL	REVISED -
PLOT SCALE = N.T.S.	CHECKED - AJ/LG	REVISED -
PLOT DATE = 5/31/2024	DATE - 10/05/2021	REVISED -

**CITY OF AURORA
 MASTODON LAKE
 SHORELINE RESTORATION PROJECT**

EROSION CONTROL DETAILS

SCALE: N.T.S. SHEET NO. 01 OF 01 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	16
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

DC ROLLED EROSION CONTROL PRODUCTS

STAKING PATTERN GUIDE

NOTES:
 1. OVERLAP MINIMUM IS THE DIAMETER OF THE ROLL.
 2. 4" SPACING FOR WATTLES.
 3. 2" SPACING FOR ROLLED EXCELSIOR.
 4. OR SPACE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

STAKE DETAIL

NOTES:
 1. DRAWINGS ARE NOT TO SCALE.
 2. ENDS OF WATTLES OR ROLLED EXCELSIOR SHALL BE TURNED AT LEAST 6" UPSLOPE.
 3. RECOMMENDED STAKES ARE 1 1/8" WIDE x 1 1/8" THICK x 30" LONG.
 4. STAKES SHALL NOT EXTEND ABOVE THE STRAW WATTLE MORE THAN 2".
 5. SPACING: THE TOE OF THE UPSTREAM DITCH CHECK SHALL CREATE A HORIZONTAL LINE WITH THE TOP OF THE DOWNSTREAM DITCH CHECK.

REFERENCE Project: _____ Date: _____
 Designed: _____ Date: _____
 Checked: _____ Date: _____
 Approved: _____ Date: _____

DC SYNTHETIC POROUS RUNOFF CONTROL STRUCTURES

Front View

Minimum Installation Length up Slopes

Slope	Panels
2:1	1
2.5:1	1.5
3:1	2
3.5:1	2
4:1	2
5:1	2.5
6:1	2.5

Typical Runoff Structure Spacing

Typical Runoff Structure Spacing
 Spacing: 131' / Slope %

REFERENCE Project: _____ Date: _____
 Designed: _____ Date: _____
 Checked: _____ Date: _____
 Approved: _____ Date: _____

TREE TRUNK PROTECTION

Notes
 1. The contractor shall provide 2" x 8" boards banded continuously around each trunk with a protective cloth (such as burlap or better) placed between the boards and the tree to prevent scarring of the tree being protected. The height of the boards is variable due to height of tree being protected. Trees to be protected shall be shown in the plans or designated by the Professional Forester or Certified Arborist.
 2. The protective cloth shall extend past both the top and bottom of the boards as shown in the detail. Width of wrap material varies. For fabric that does not meet the required height, fabric shall overlap a minimum of 6" and shall be spliced to avoid slippage.

REFERENCE Project: _____ Date: _____
 Designed: _____ Date: _____
 Checked: _____ Date: _____
 Approved: _____ Date: _____

TREE PROTECTION - FENCING

Notes:
 1. The fence shall be located a minimum of 1 foot outside the drip line of the tree to be saved and in no case closer than 5 feet to the trunk of any tree.
 2. Fence posts shall be either standard steel posts or wood posts with a minimum cross sectional area of 3.0 sq. in.
 3. The fence may be either 40" high snow fence, 40" plastic web fencing or any other material as approved by the engineer/inspector.

REFERENCE Project: _____ Date: _____
 Designed: _____ Date: _____
 Checked: _____ Date: _____
 Approved: _____ Date: _____

RR STONE RIP RAP DETAIL FOR ANY TAILWATER CONDITION

Approx. stone size based on IDOT Std.

Slope (%)	Min. (ft)	Max. (ft)
24	8	10
25	12	15
26	15	22

LOW VELOCITY (<5fps)

D	T	L	B	Quantity SY.
10"	A2 (6")	10'	8"	8
12"	A3 (15")	12'	11"	11
15"	A3 (15")	13'	13"	13
18"	A3 (15")	14'	16"	16
21"	A3 (15")	15'	18"	18
24"	A3 (15")	16'	21"	21
27"	A3 (15")	17'	25"	25
30"	A3 (15")	18'	30"	30
33"	A4 (16")	19'	A1 (6")	32
36"	A4 (16")	20'	A1 (6")	36
42"	A4 (16")	22'	A1 (6")	44
48"	A4 (16")	24'	A1 (6")	53

HIGH VELOCITY (5-10fps)

D	T	L	B	Quantity SY.
10"	A2 (6")	10'	8"	8
12"	A3 (15")	15'	11"	16
15"	A3 (15")	15'	15"	17
18"	A4 (16")	16'	A1 (6")	20
21"	A4 (16")	18'	A1 (6")	25
24"	A4 (16")	20'	A1 (6")	31
27"	A4 (16")	21'	A1 (6")	35
30"	A4 (16")	22'	A1 (6")	39
33"	A5 (22")	23'	A1 (8")	44
36"	A5 (22")	24'	A1 (8")	48
42"	A6 (28")	26'	A2 (10")	58
48"	A6 (28")	28'	A2 (10")	68

NOTE: WHEN OUTLETING TO A DEFINED CHANNEL, WIDTH AND AREA OF APRON SHALL CONFORM TO TOP OF CHANNEL BANK

REFERENCE Project: _____ Date: _____
 Designed: _____ Date: _____
 Checked: _____ Date: _____
 Approved: _____ Date: _____

RR PIPE OUTLET TO CHANNEL

Pipe Outlet To Well-Defined Channel

NOTES:
 1. The filter fabric shall meet the requirements in material specification 592 GEOTEXTILE Table I or 2, Class I, II or III.
 2. The rock riprap shall meet the IDOT requirements for the following gradation.
 3. The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.

REFERENCE Project: _____ Date: _____
 Designed: _____ Date: _____
 Checked: _____ Date: _____
 Approved: _____ Date: _____

FLOATING SILT CURTAIN - TYPICAL LAYOUT

Maximum flow for waterbody shall be less than 5fps. Isolated work area shall not exceed more than 1/3 stream width. Silt curtain shall be placed parallel to stream flow.

REFERENCE Project: _____ Date: _____
 Designed: _____ Date: _____
 Checked: _____ Date: _____
 Approved: _____ Date: _____

FLOATING SILT CURTAIN - PANEL CONNECTORS

REFERENCE Project: _____ Date: _____
 Designed: _____ Date: _____
 Checked: _____ Date: _____
 Approved: _____ Date: _____

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: KJENKINS
 DATE PLOTTED: 5/31/2024 8:10 AM
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 FILE NAME: 191806-Details
 PLOT DRIVER: DWG To PDF.pc3
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HRGreen.com Illinois Professional Design Firm #184.001322	USER NAME = KJENKINS FILE NAME = 191806-Details PLOT SCALE = N.T.S. PLOT DATE = 5/31/2024	DESIGNED - LG DRAWN - MPL CHECKED - AJ/LG DATE - 10/05/2021	REVISED - REVISED - REVISED - REVISED -
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**CITY OF AURORA
 MASTODON LAKE
 SHORELINE RESTORATION PROJECT**

SCALE: N.T.S. SHEET NO. 03 OF 04 SHEETS STA. TO STA.

REFERENCE Project: _____ Date: _____ Designed: _____ Date: _____ Checked: _____ Date: _____ Approved: _____ Date: _____	STANDARD DWG. NO. IL-611 SHEET 1 OF 1 DATE 8-18-94	REFERENCE Project: _____ Date: _____ Designed: _____ Date: _____ Checked: _____ Date: _____ Approved: _____ Date: _____	STANDARD DWG. NO. IUM-617A SHEET 1 OF 1 DATE 1-06-2012
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	17
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

Wet Mesic Prairie Seed Mixture			
Grass Mixture (6lbs per acre)			
Scientific Name	Common Name	lbs/acre	% by Weight
Panicum virgatum	Switch Grass	1.08	18%
Glyceria striata	Fowl Manna Grass	0.96	16%
Elymus virginicus	Virginia Wild Rye	0.96	16%
Leersia oryzoides	Rice Cut Grass	0.84	14%
Carex vulpinoidea	Brown Fox Sedge	0.36	6%
Carex lacustris	Lank-Bank Sedge	0.36	6%
Carex stricta	Tussock Sedge	0.36	6%
Carex silpata	Awl-Fruited Sedge	0.36	6%
Scirpus validus	Softstem Bulrush	0.18	3%
Scirpus fluviatilis	River Bulrush	0.18	3%
Juncus torreyi	Torrey's Rush	0.18	3%
Juncus effusus	Common Rush	0.18	3%
Total		6	100%
Forb Mixture (2lbs per acre)			
Scientific Name	Common Name	lbs/acre	% by Weight
Acorus calamus	Sweet Flag	0.16	8%
Asclepias incarnata	Swamp Milkweed	0.16	8%
Eupatorium perfoliatum	Boneset	0.12	6%
Iris virginica shrevei	Blue Flag Iris	0.16	8%
Lobelia cardinalis	Cardinal Flower	0.12	6%
Lobelia siphilitica	Great Blue Lobelia	0.12	6%
Liatris spicata	Marsh Blazing Star	0.12	6%
Liatris pycnostachya	Prairie Blazing Star	0.12	6%
Aster novae-angliae	New England Aster	0.2	10%
Physostegia virginiana	Obedient Plant	0.2	10%
Solidago riddellii	Riddel Goldenrod	0.1	5%
Rudbeckia laciniata	Cut-leaf Coneflower	0.1	5%
Rudbeckia subtomentosa	Sweet Black-eyed Susan	0.12	6%
Polygonium pensylvanicum	Pennsylvania Smartweed	0.2	10%
Total		2	100%

Mesic Prairie Seed Mixture			
Grass Mixture			
Scientific Name	Common Name	lbs/acre	% by Weight
Panicum virgatum	Switch Grass	2.0	13%
Andropogon scoparius	Little Blue Stem	5.0	31%
Bouteloua Curtipendula	Side-Oats Gama	5.0	31%
Elymus Canadensis	Canada Wild Rye	1.5	9%
Sorobolus Heterolepis	Prairie Drop Seed	0.5	3%
Sorghastrum Nutans	Indian Grass	2.0	13%
Total		16	100%
Forb Mixture			
Scientific Name	Common Name	lbs/acre	% by Weight
Asclepias tuberosa	Butterfly- Weed	1.5	19%
Aster novae-angliae	New England Aster	1.5	19%
Echinacea pallida	Pale Purple Coneflower	1.5	19%
Echinacea pinnata	Yellow Coneflower	1.5	19%
Eryngium yuccifolium	Rattlesnake Master	0.5	6%
Liatris pycnostachya	Prairie Blazing Star	0.5	6%
Monarda fistulosa	Wild Bergamont	0.15	2%
Petalostemum purpurea	Purple Prairie Clover	0.25	3%
Rudbeckia hirta	Black-eyed Susan	0.15	2%
Tradescantia ohioensis	Spiderwort	0.05	1%
Solidago rigida	Rigid Goldenrod	0.15	2%
Penstemon digitalis	Foxglove Beard Tongue	0.25	3%
Total		8	100%

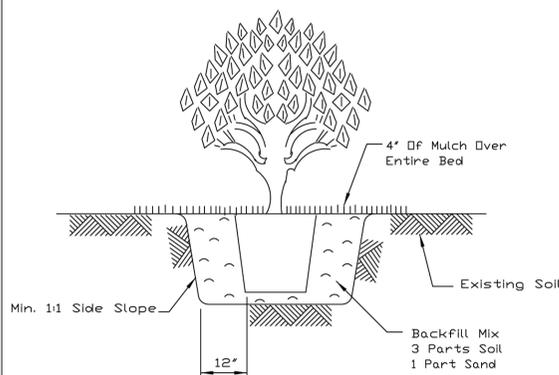
Temporary Cover Crop			
For use in all seed zones			
Scientific Name	Common Name	lbs/acre	% by Weight
Avena sativa	Common Oats	25.0	50%
Elymus Sp.	Annual Rye Grass	25.0	50%
Total		50	100%

Emergent Wetland Plant Plugs					
Scientific Name	Common Name	Notes	Spacing O.C.	# Plugs	% of Mix
Iris virginica shrevei	Blue Flag Iris	2" above to 2" below NWL	30"	480	15%
Carex vulpinoidea	Brown Fox Sedge	2" above to 2" below NWL	30"	480	15%
Juncus effusus	Common Rush	2" above to 2" below NWL	30"	320	10%
Sagittaria latifolia	Common Arrowhead	2" below to 6" below NWL	30"	320	10%
Scirpus fluviatilis	River Bulrush	2" below to 6" below NWL	30"	800	25%
Sparganium eurycarpum	Common Bur Reed	2" below to 6" below NWL	30"	800	25%
Total				3200	100%

Wet Mesic Plant Plant Plugs					
Scientific Name	Common Name	Notes	Spacing O.C.	# Plugs	% of Mix
Iris virginica shrevei	Blue Flag Iris	less than 12" above NWL	30"	456	12%
Carex vulpinoidea	Brown Fox Sedge	less than 24" above NWL	30"	1520	40%
Lobelia cardinalis	Cardinal Flower	12" to 24" from NWL	30"	456	12%
Eryngium yuccifolium	Rattlesnake Master	12" to 24" from NWL	30"	456	12%
Liatris spicata	Marsh Blazing Star	12" to 24" from NWL	30"	456	12%
Asclepias incarnata	Swamp Milkweed	12" to 24" from NWL	30"	456	12%
Total				3800	100%

Shrubs				
Scientific Name	Common Name	Notes	Spacing O.C.	# Shrubs
Symphoricarpos orbiculatus	Coral Berry	More than 4' from NWL	48"	55

PLANTING PROCEDURE FOR SHRUBS



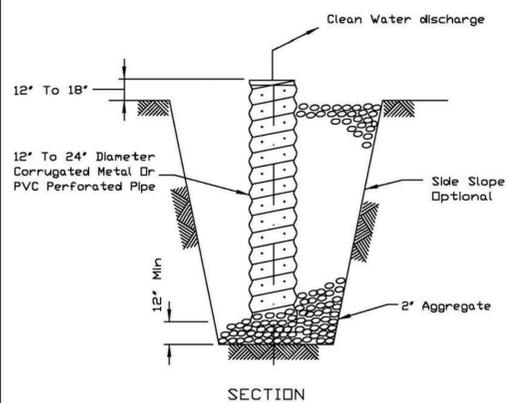
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Designed	_____	Date	_____
Checked	_____	Date	_____
Approved	_____	Date	_____



STANDARD DWG. NO.
IL-689
SHEET 1 OF 1
DATE 8-25-93

SUMP PIT PLAN



NOTES:

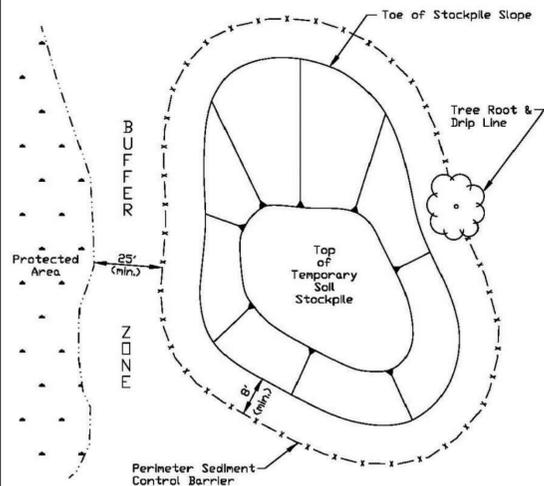
- Pit dimensions are optional.
- The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
- A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.
- The standpipe will extend 12" to 18" above the lip of the pit.
- If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
- If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

REFERENCE Project	_____	Date	_____
Designed	_____	Date	_____
Checked	_____	Date	_____
Approved	_____	Date	_____



STANDARD DWG. NO.
IL-650
SHEET 1 OF 1
DATE 8-11-94

TEMPORARY SOIL STOCKPILE DETAIL



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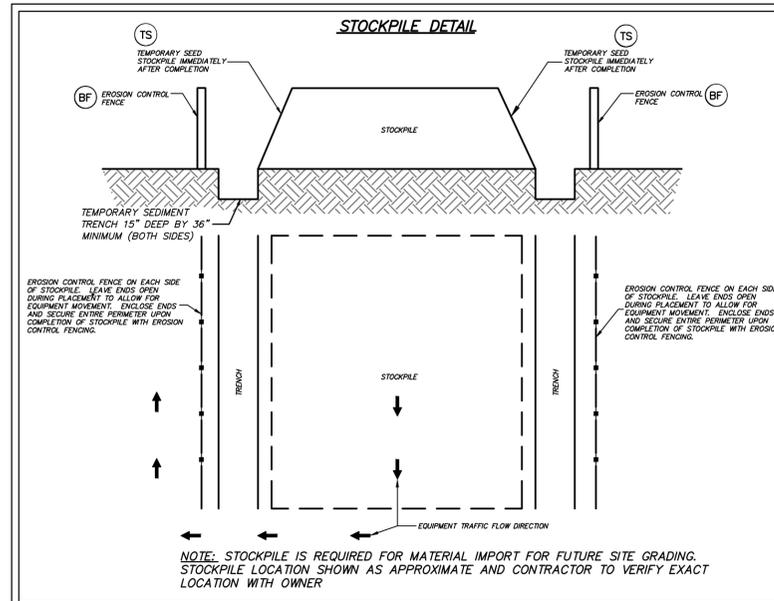
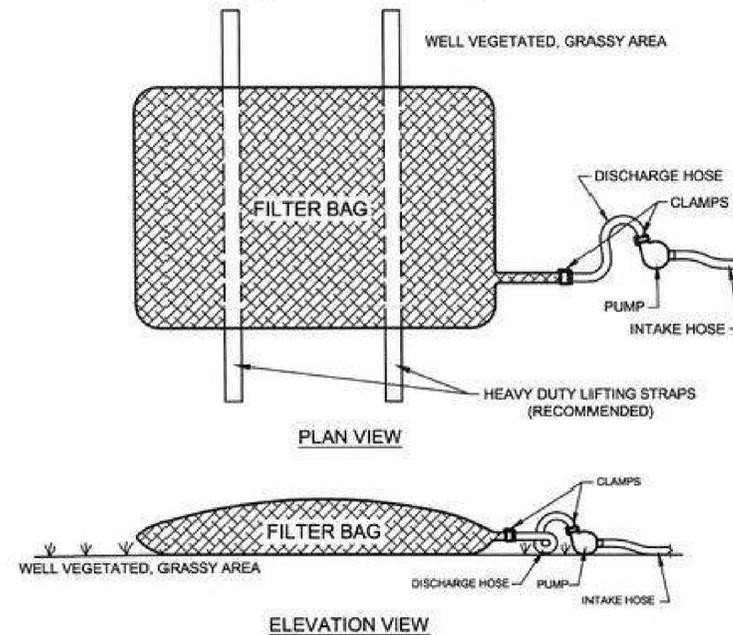
- Stockpile slopes should be based on an angle of repose of the soil material to avoid potential sloughing of the slope.
- Soil stockpile to be stabilized in accordance with practical standards.
- Do not locate stockpile within overland drainage flow path, designated floodways, drip line or over the root crown of adjacent trees.
- Provisions for sediment control practices may be required along haul roads and entrance/exit locations for access the soil stockpile that can create flow path for stormwater runoff.
- Installation of benches, terraces, or slope interrupters should be considered.
- Avoid building soil stockpiles on impervious surfaces.
- Linear sediment trap surrounding the stockpile base may be used to control sediment.

REFERENCE Project	_____	Date	_____
Designed	_____	Date	_____
Checked	_____	Date	_____
Approved	_____	Date	_____



STANDARD DWG. NO.
IUM-627
SHEET 1 OF 1
DATE JANUARY 2017

Pumped Water Filter Bag



EROSION CONTROL DETAILS

SCALE: N.T.S. SHEET NO. 04 OF 04 SHEETS STA. TO STA.

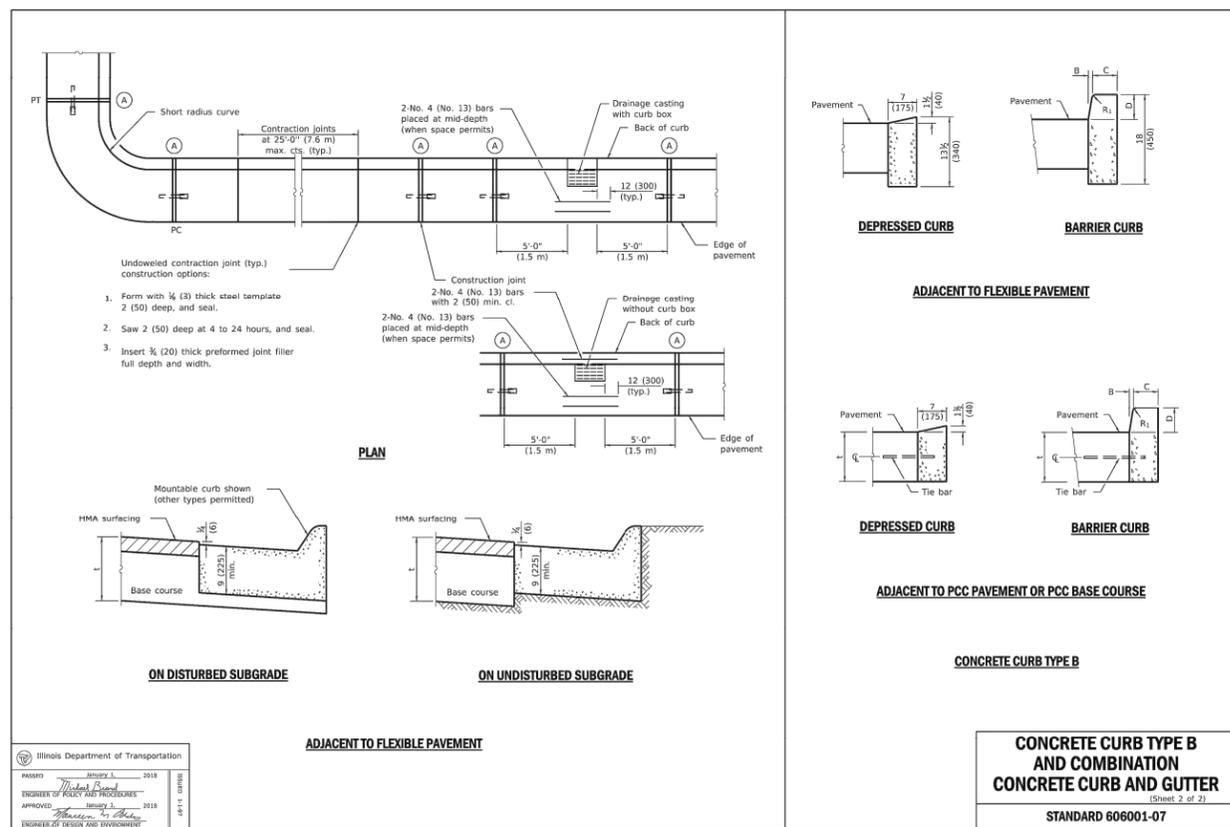
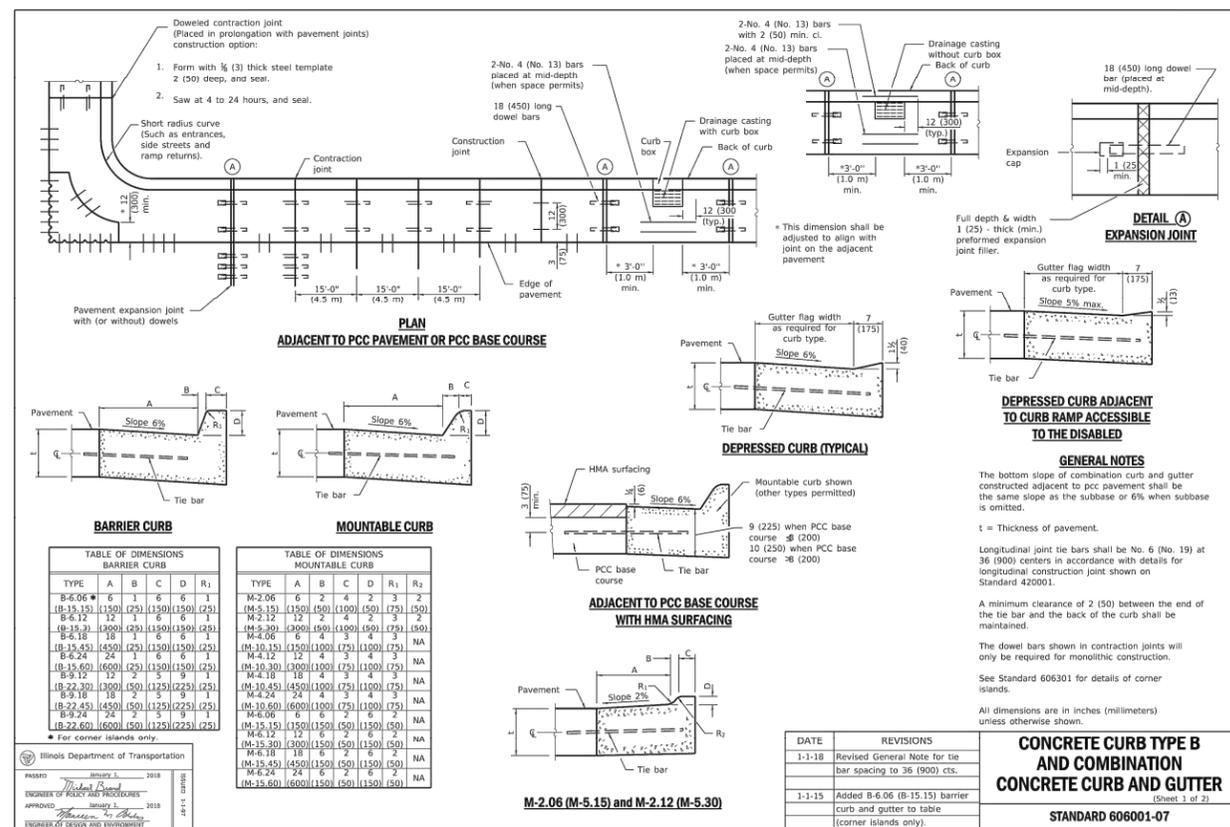
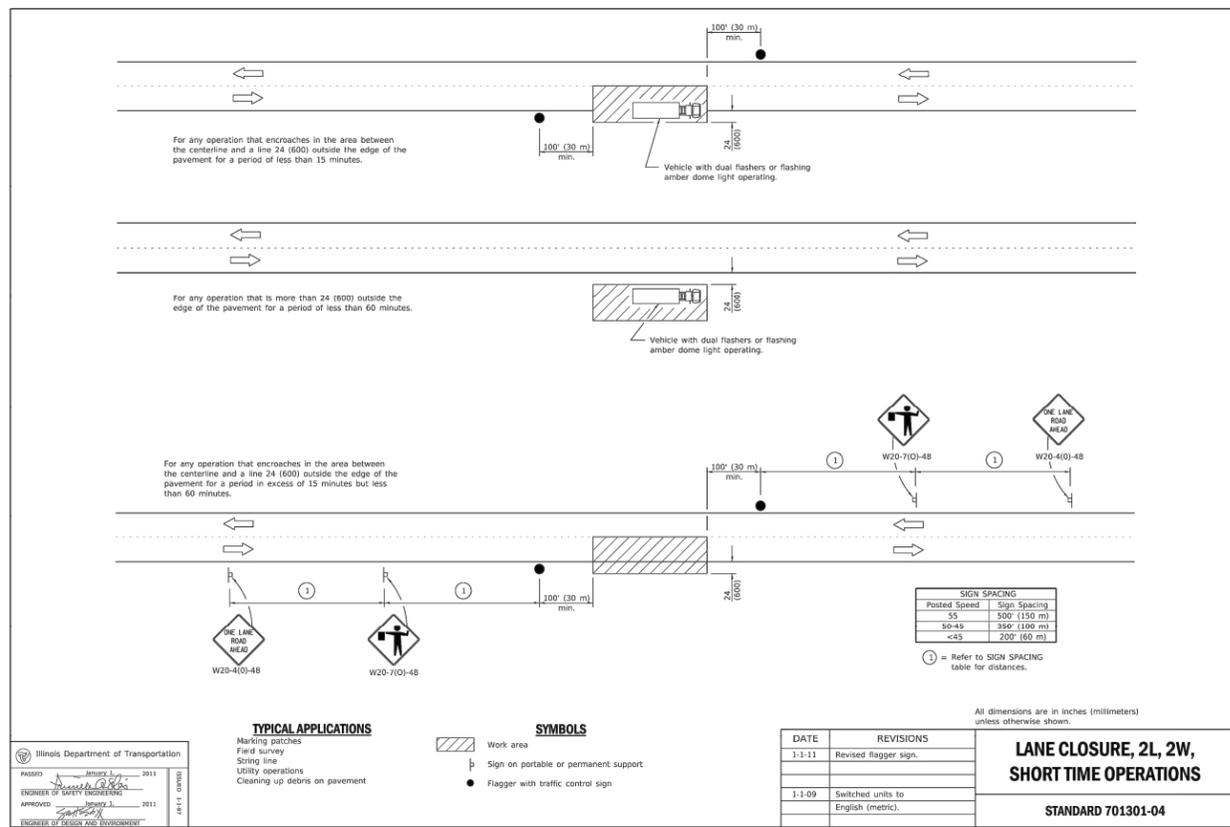
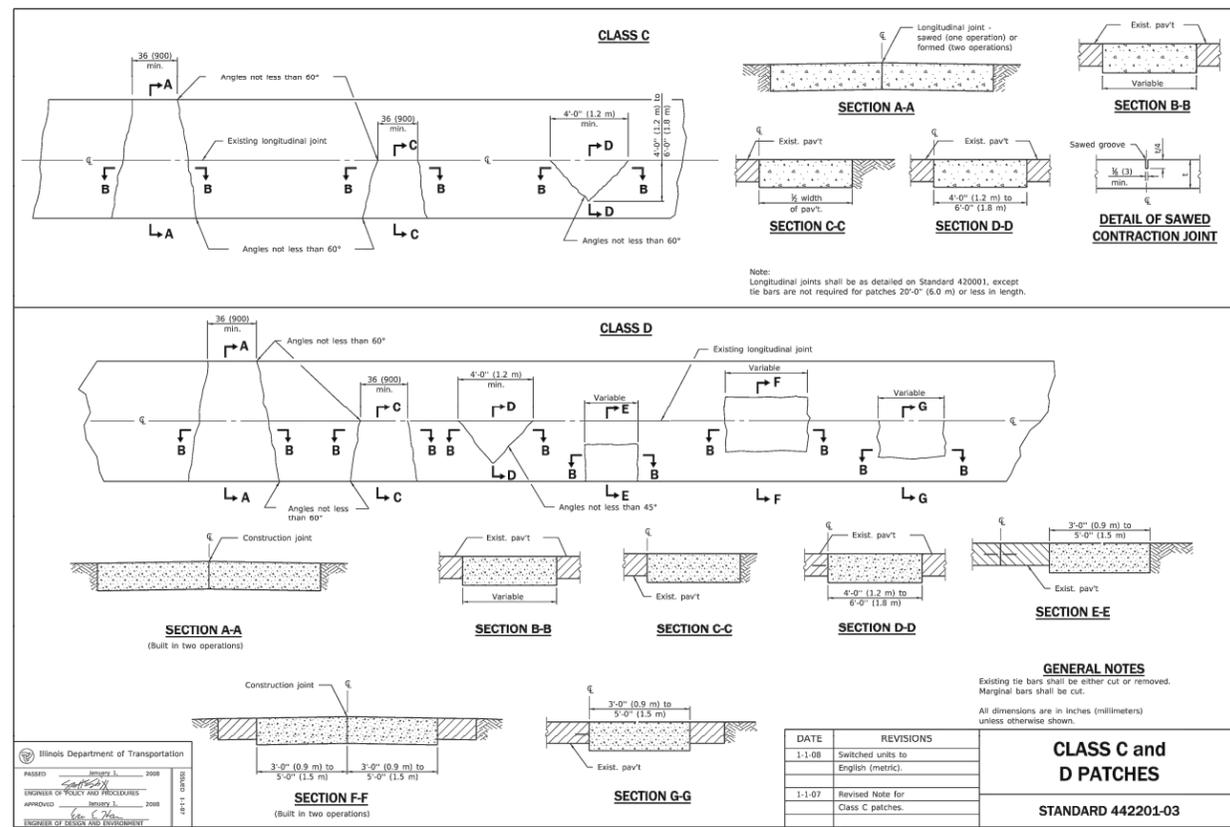
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	18
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

COMPANY NAME: HRGreen.com
PROJECT CONTACT: HRGreen.com
DATE PLOTTED: 5/31/2024 8:11 AM
FILE NAME: 191806-Details
PLOT DRIVER: DWG To PDF.pc3
PEN TABLE: SEC-Standard.ctb



USER NAME = KJENKINS	DESIGNED - LG	REVISED -
FILE NAME = 191806-Details	DRAWN - MPL	REVISED -
PLOT SCALE = N.T.S.	CHECKED - AJ/LG	REVISED -
PLOT DATE = 5/31/2024	DATE - 10/05/2021	REVISED -

CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT



COMPANY NAME: HRCGreen.com
 PROJECT CONTACT: HRCGreen.com
 DATE PLOTTED: 10/05/2021 11:37 AM
 FILE NAME: 191806-Details
 PLOT DRIVER: DWG To PDF.pc3
 PEN TABLE: SEC-Standard.ctb

HRCGreen.com
 Illinois Professional Design Firm
 #184.001322

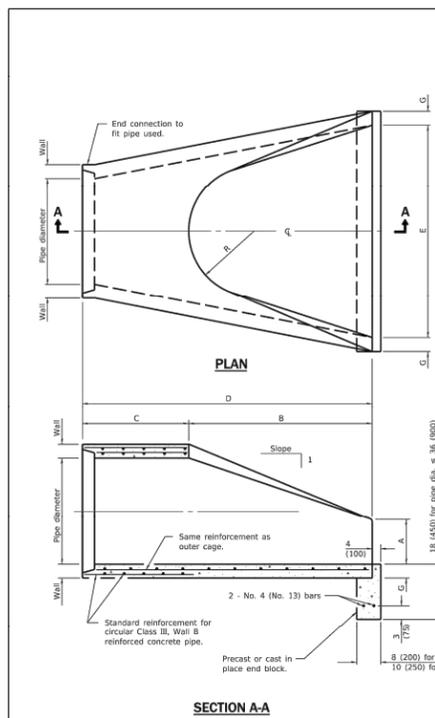
USER NAME	DESIGNED	REVISIONS
MLEWIS	LG	-
FILE NAME = 191806-Details	DRAWN = MPL	REVISIONS = -
PLOT SCALE = N.T.S.	CHECKED = AJ/LG	REVISIONS = -
PLOT DATE = 10/05/2021	DATE = 10/05/2021	REVISIONS = -

CITY OF AURORA MASTODON LAKE SHORELINE RESTORATION PROJECT

IDOT STANDARD DETAILS

SCALE: N.T.S. SHEET NO. 01 OF 02 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	19
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

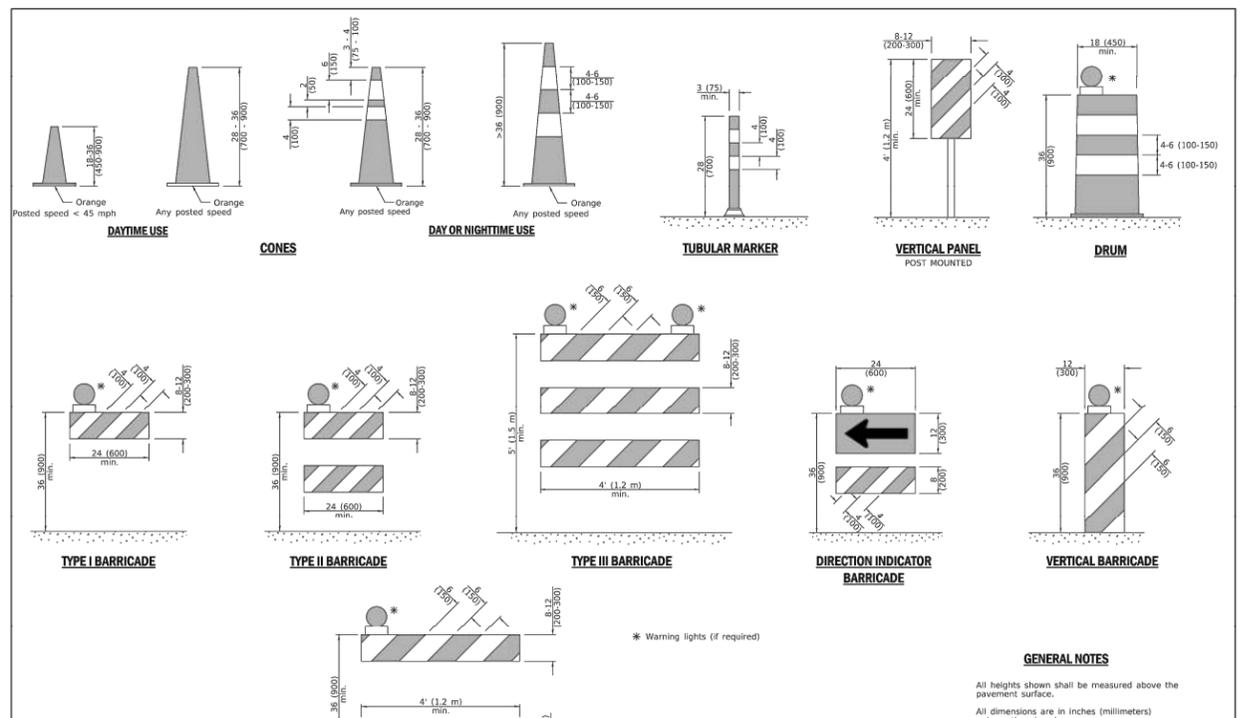


PIPE DIA.	APPROX. QTY. PER RES.	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	4 (102)	28 (610)	4'-0" (1.219 m)	6'-0" (1.829 m)	24 (610)	2 (51)	2 (229)	1:2.4
15 (375)	740 (335)	2 (57)	6 (152)	40 (860)	4'-0" (1.219 m)	6'-1" (1.854 m)	30 (762)	2 (51)	12 (300)	1:2.4
18 (450)	900 (400)	2 (64)	9 (229)	52 (1118)	4'-0" (1.219 m)	6'-1" (1.854 m)	36 (914)	2 (51)	12 (300)	1:2.4
21 (525)	1280 (580)	2 (71)	12 (305)	64 (1372)	4'-0" (1.219 m)	6'-1" (1.854 m)	42 (1067)	2 (51)	12 (300)	1:2.4
24 (600)	1520 (690)	2 (78)	15 (381)	76 (1554)	4'-0" (1.219 m)	6'-1" (1.854 m)	48 (1219)	2 (51)	12 (300)	1:2.5
27 (675)	1930 (875)	2 (85)	18 (457)	88 (1829)	4'-0" (1.219 m)	6'-1" (1.854 m)	54 (1372)	2 (51)	12 (300)	1:2.4
30 (750)	2190 (995)	2 (92)	21 (533)	100 (2032)	4'-0" (1.219 m)	6'-1" (1.854 m)	60 (1524)	2 (51)	12 (300)	1:2.5
36 (900)	2800 (1260)	2 (106)	27 (686)	124 (2554)	4'-0" (1.219 m)	6'-1" (1.854 m)	72 (1829)	2 (51)	12 (300)	1:2.5
42 (1050)	3380 (1530)	2 (120)	33 (843)	148 (2854)	4'-0" (1.219 m)	6'-1" (1.854 m)	84 (2134)	2 (51)	12 (300)	1:2.5
48 (1200)	3960 (1800)	2 (134)	39 (991)	172 (3172)	4'-0" (1.219 m)	6'-1" (1.854 m)	96 (2439)	2 (51)	12 (300)	1:2.5
54 (1350)	4540 (2070)	2 (148)	45 (1143)	196 (3572)	4'-0" (1.219 m)	6'-1" (1.854 m)	108 (2744)	2 (51)	12 (300)	1:2.0
60 (1500)	5120 (2350)	2 (162)	51 (1301)	220 (3972)	4'-0" (1.219 m)	6'-1" (1.854 m)	120 (3049)	2 (51)	12 (300)	1:1.0
66 (1650)	5700 (2530)	2 (176)	57 (1459)	244 (4372)	4'-0" (1.219 m)	6'-1" (1.854 m)	132 (3354)	2 (51)	12 (300)	1:1.7
72 (1800)	6280 (2710)	2 (190)	63 (1617)	268 (4672)	4'-0" (1.219 m)	6'-1" (1.854 m)	144 (3659)	2 (51)	12 (300)	1:1.8
78 (1950)	6860 (2890)	2 (204)	69 (1775)	292 (4972)	4'-0" (1.219 m)	6'-1" (1.854 m)	156 (3964)	2 (51)	12 (300)	1:1.8
84 (2100)	7440 (3070)	2 (218)	75 (1933)	316 (5272)	4'-0" (1.219 m)	6'-1" (1.854 m)	168 (4269)	2 (51)	12 (300)	1:1.6

GENERAL NOTES
 All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
 All dimensions are in inches (millimeters) unless otherwise shown.
 * Radius as furnished by manufacturer

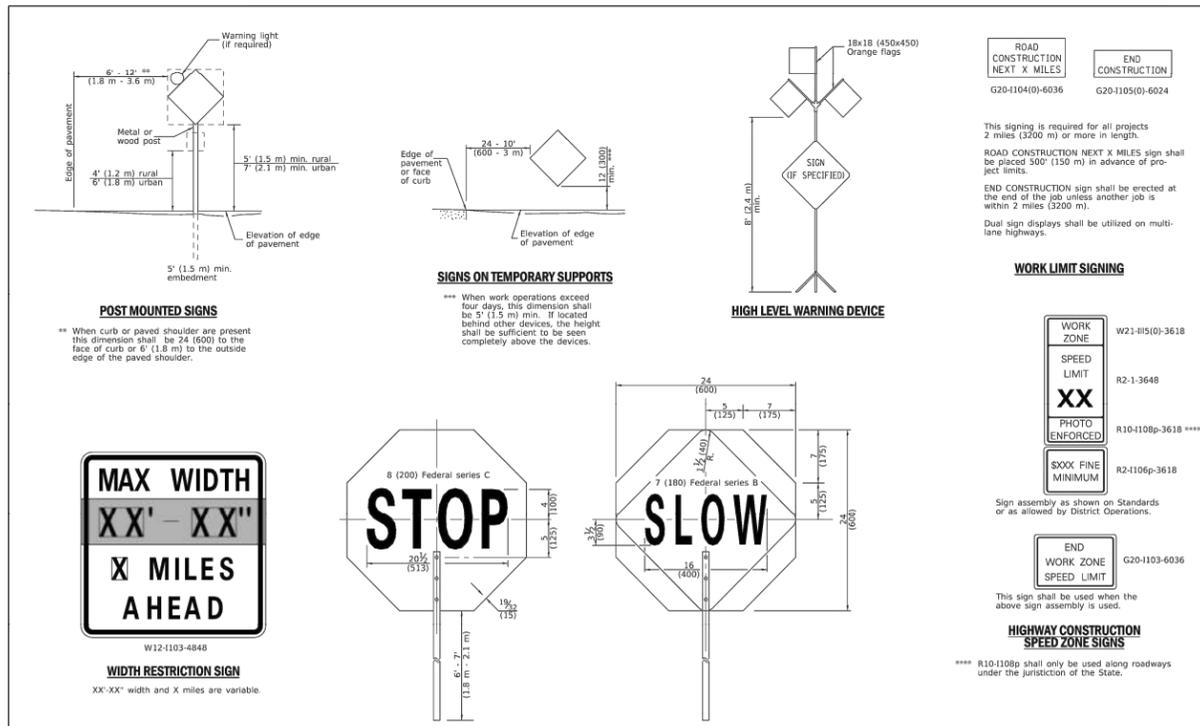
Illinois Department of Transportation
 APPROVED: [Signature] 2019
 ENGINEER OF DESIGN AND ENVIRONMENT

PRECAST REINFORCED CONCRETE FLARED END SECTION
STANDARD 542301-03



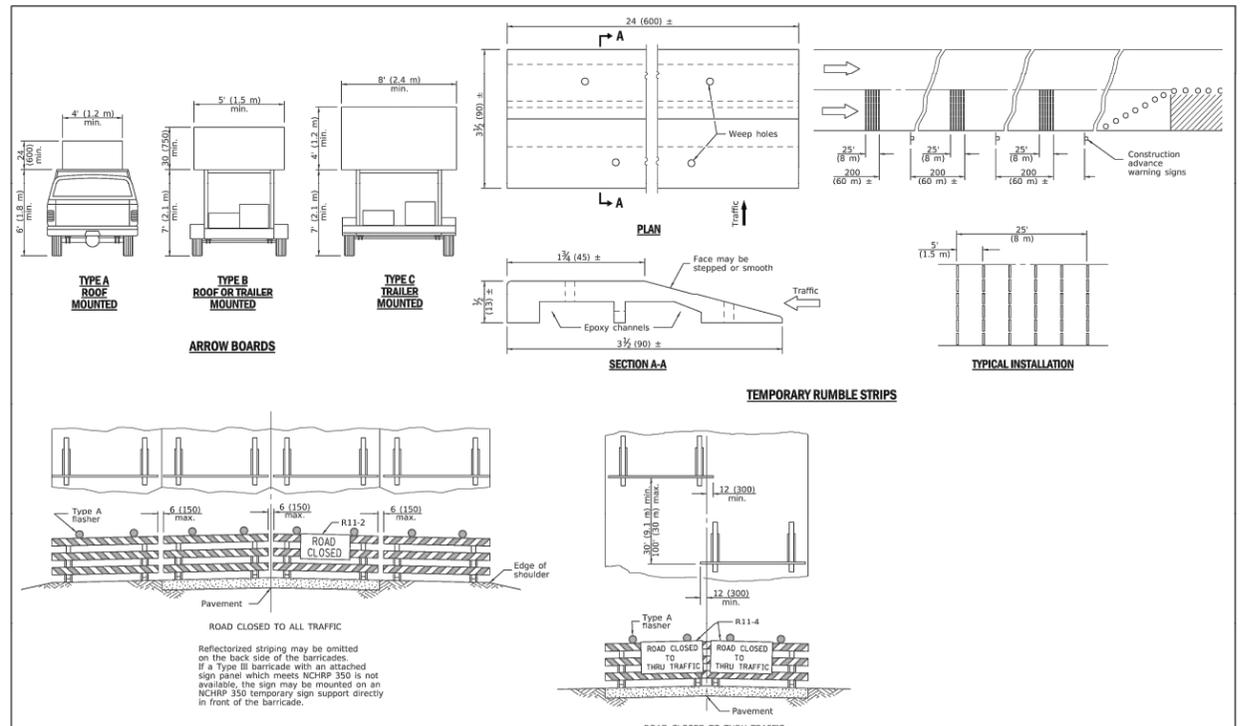
Illinois Department of Transportation
 APPROVED: [Signature] 2019
 ENGINEER OF DESIGN AND ENVIRONMENT

TRAFFIC CONTROL DEVICES
STANDARD 701901-08



Illinois Department of Transportation
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 ENGINEER OF DESIGN AND ENVIRONMENT

TRAFFIC CONTROL DEVICES
STANDARD 701901-08



Illinois Department of Transportation
 APPROVED: [Signature] 2019
 ENGINEER OF DESIGN AND ENVIRONMENT

TRAFFIC CONTROL DEVICES
STANDARD 701901-08

COMPANY NAME: HRCGreen.com
 PROJECT CONTACT: [Name]
 DATE PLOTTED: 10/5/2021 11:37 AM
 FILE NAME: 191806-Details
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 PEN TABLE: SEC-Standard.ctb

HRCGreen.com
 Illinois Professional Design Firm
 #184.001322

USER NAME = MLEWIS	DESIGNED - LG	REVISED -
FILE NAME = 191806-Details	DRAWN - MPL	REVISED -
PLOT SCALE = N.T.S.	CHECKED - AJ/LG	REVISED -
PLOT DATE = 10/5/2021	DATE - 10/05/2021	REVISED -

CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

IDOT STANDARD DETAILS
 SCALE: N.T.S. SHEET NO. 02 OF 02 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	20
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				