

## ADDENDUM No. 4

ITB No. 4665

### Wheeler Facility Pond Dredging

**Bids Due: March 30, 2021 at 10:00 A.M. (Local Time)**

The information contained herein shall take precedence over the original documents and all previous addenda (if any) and is appended thereto. **This Addendum includes fourteen (14) pages.**

**Bidder is to acknowledge receipt of this Addendum No. 4, including all attachments (if any) in its Bid by so indicating on page ITB-1 of the Invitation to Bid Form. Bids submitted without acknowledgment of receipt of this addendum may be considered nonconforming.**

The following forms provided within the ITB document should be included in submitted bids:

- City of Ann Arbor Prevailing Wage Declaration of Compliance
- City of Ann Arbor Living Wage Ordinance Declaration of Compliance
- Vendor Conflict of Interest Disclosure Form
- City of Ann Arbor Non-Discrimination Ordinance Declaration of Compliance

**Bids that fail to provide these forms listed above upon bid opening may be rejected as non-responsive and may not be considered for award.**

## I. QUESTIONS AND ANSWERS

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the ITB. Bidders are directed to take note in their review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

Question 1: I need a clarification on “Compacted Topsoil/Compost” I am unable to locate this item in the provided print or a detailed specification. Can you please provide more information on this line item.

Answer 1: On the Bid form, there is a line item bid for compacted topsoil or compost. On page 01270/7, #16 contains a description of what the compacted topsoil/compost is to consist of and how it will be paid.

Question 2a: Please indicate how the “Wetland Plants” as shown in plan view on sheet 4 and in detail on sheet B are to be paid for.

Answer 2a: Wetland plants are no longer part of the project and are not on the bid sheet. In lieu of wetland plants, we are specifying a wetland seed mix. Please see updated plan set provided herein.

Question 2b: Are these wetland plants to be paid as part of the “Live Stake Shrubs Plugs” pay item?

- Answer 2b: No, please see answer to #2a
- Question 2c: If so, you have a GIGANTIC quantity bust (there are roughly 8,100 plugs required for the specified area, see below).
- Answer 2c: See answer to 2a and 2b above
- Question 2d: Please clarify the note below the "Wetland Plants" schedule on sheet B. The way I interpret this note is that 25 plants of three different species per 100 SF of the indicated area are required (75 plants / 100 SF). Is this interpretation correct?
- Answer 2d: See answer to 2a and 2b above
- Question 3a: Does the project NEED to take place according to the revised schedule as indicated?
- Answer 3a: No
- Question 3b: Based on the new time frame, soils will not be able to be transported to the landfill facility during seasonal weight restrictions (+/- March, 2022). This limits the ability to perform work during this time period.
- Could we come to a mutually agreeable schedule after the bid?
- Answer 3b: Yes
- Question 4: Who is responsible for testing the excavated soil for landfill disposal purposes? The Type II landfill will require soil analytical information from each location (this would require +/- 6 samples for testing).
- Answer 4: Soil samples have been taken and can be provided to the successful contractor prior to start of construction.
- Question 5a: Can silt fence be used in lieu of the silt sock product?
- Answer 5a: Yes
- Question 5b: If silt sock is required, is a single row acceptable? The detail shows installations where the silt sock is stacked and requires +/- 3 "socks" per LF of installation. Please advise.
- Answer 5b: Yes
- Question 6: Do you really want 6' chain link fence as indicated in the plans and specifications? As this is a gated facility, this seems like overkill. Please advise.
- Answer 6: Yes
- Question 7: Is there any plant maintenance or guarantee required for this project?
- Answer 7: Please see #34 on page 01960/7 of the specifications.
- Question 8: Where does the 700 cy of compost go? into the shrub beds or is it to be mixed with the topsoil to be respread?
- Answer 8: The 700 Cy of compacted topsoil/compost is to be utilized through out the project restoration if there is not adequate stripped topsoil to respread as well as utilized in areas where shrubbery is specified to be planted.

Question 9: Once we leave the Wheeler Facility are there certain roads we have to follow?

Answer 9: Sheet 1 of the plans shows the access route in and out of the Wheeler Facility. More detailed information of proposed changes can be discussed with the successful bidder at the time of the preconstruction meeting.

Question 10: The wetland plants shown on the drawings for the transfer station pond are not indicated in the bid proposal, are these part of the project?

Answer 10: Wetland plants have been removed from the project and replaced with a wetland seed mix. Please see updated plan set provided herein.

Question 11: There is no item for hardwood mulch, but it is shown on the details for the planting beds. Do we provide and install that material as part of the 708 live stake shrubs to be installed?

Answer 11: Yes, the hardwood mulch is to be part of the overall cost of the shrub and installation.

Question 12: Please verify quantities on bid form.

Answer 12: Please see updated page BF-1 herein. Revised quantities are in red.

Bidders are responsible for any conclusions that they may draw from the information contained in the Addendum.

# BID FORM

## Section 1 – Schedule of Prices

Company: \_\_\_\_\_

Project: **ITB# 4665 - Wheeler Facility Pond Dredging**

**Unit Price Bid –**

Base Bid					
	Item	Estimated Quantity	Unit	Unit Price	Total Cost
1.	Mobilization, Max 5%	1	LS	=	
2.	Construction Fence, As Needed	200	Ft	=	
3.	Silt Sock	8,310	Ft	=	
4.	Stone Filter	4	EA	=	
5.	Sediment Removal and Earth Excavation	14,400	CY	=	
6.	Sediment Disposal - Landfill	14,400	CY	=	
7.	Hydric Soils, Stockpile	4,500	CY	=	
8.	Level Spreader Rip-Rap	8	CY	=	
9.	15" N-12 Pipe	30	Ft	=	
10.	Trench undercut and Refill	20	CY	=	
11.	Live Stake Shrubs Plugs	708	EA	=	
12.	Seed Mix A	3.50	Acre	=	
13.	Seed Mix B	2.42	Acre	=	
14.	Seed Mix C	0.67	Acre	=	
15.	Erosion Blanket	286,713	SF	=	
16.	Compacted Topsoil/Compost	700	CY	=	
17.	Light Storm Sewer Cleaning (12"-24")	103	FT	=	
18.	Light Storm Sewer Cleaning (30"-60")	311	FT	=	
19.	Heavy Storm Sewer Cleaning (12'-24")	103	FT	=	
20.	Heavy Storm Sewer Cleaning (30"-60")	311	FT	=	
21.	Relocation and Replacement of Concrete Pads	3	EA	=	
22.	Topsoil Stripping and Stockpile	14,955	SY	=	
	<b>PROJECT TOTAL</b>				

**ESTIMATED TOTAL**

**\$ \_\_\_\_\_**

# WHEELER FACILITY POND DREDGING

## 4170 PLATT ROAD

### CITY OF ANN ARBOR

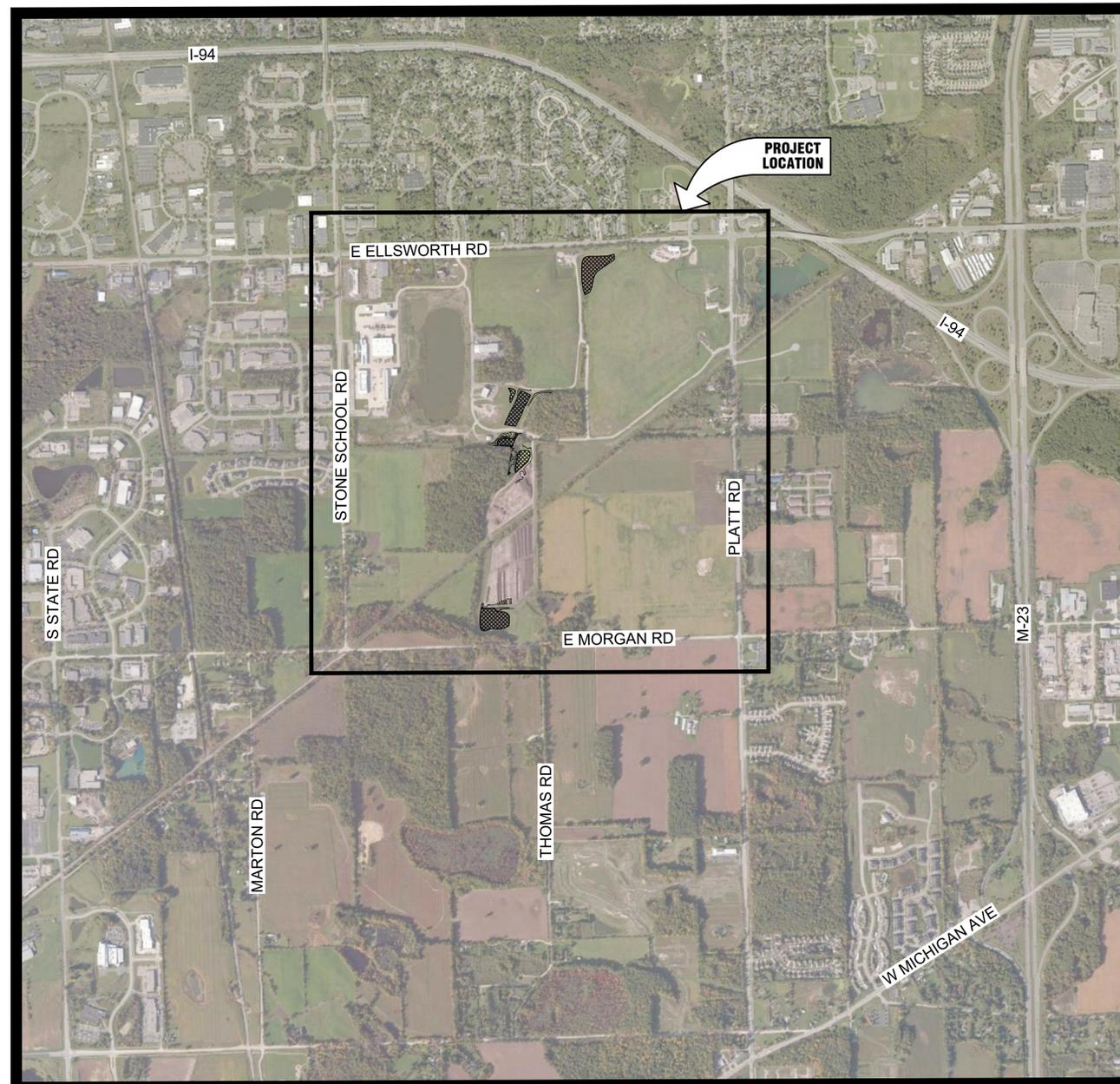
## WASHTENAW COUNTY, MICHIGAN



### CITY OF ANN ARBOR PUBLIC WORKS

4251 STONE SCHOOL ROAD  
ANN ARBOR, MI 48108  
PHONE: (734) 794-6350

WEB SITE: <https://www.a2gov.org/departments/public-works/Pages/default.aspx>



### SHEET INDEX

DESCRIPTION	SHEET NO.
COVER	A
PROJECT NOTES	B
PROJECT DETAILS	C
PROJECT DETAILS	D
SOIL EROSION & SEDIMENT CONTROL DETAILS	1
OVERALL SITE PLAN	2
SOUTH COMPOST PAD POND	3
NORTH COMPOST PAD POND & MAINTENANCE POND	4
FOREBAY & TRANSFER POND	5
LANDFILL POND	

**HRC**  
**HUBBELL, ROTH & CLARK, INC**  
CONSULTING ENGINEERS SINCE 1915

555 HULET DRIVE P.O. BOX 824  
BLOOMFIELD HILLS, MICH. 48303 - 0824

PHONE: (248) 454-6300  
FAX (1st. Floor): (248) 454-6312  
FAX (2nd. Floor): (248) 338-2592



WEB SITE: <http://www.hrc-engr.com>

**NOTE:**  
ALL EXISTING UTILITIES SHOWN ON THIS TOPOGRAPHICAL SURVEY HAVE BEEN TAKEN FROM VISUAL OBSERVATION, AND RECORD MAPPING WHERE AVAILABLE. NO GUARANTEE IS MADE, OR SHOULD BE ASSUMED, AS TO THE COMPLETENESS OR ACCURACY OF THE UTILITIES SHOWN ON THIS DRAWING. PARTIES UTILIZING THIS INFORMATION SHALL FIELD VERIFY THE ACCURACY AND COMPLETENESS PRIOR TO CONSTRUCTION ACTIVITIES.



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DATE	ADDITIONS AND/OR REVISIONS
03/08/21	ADDENDUM No. 2
02/08/21	SECOND CITY REVIEW
09/24/20	ISSUED TO CITY FOR REVIEW
06/18/20	DRAFT PLANS

GENERAL NOTES:

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

LIMITATIONS ON PRIVATE WORK: DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS ADJACENT TO THE PROJECT WITHOUT PRIOR OWNER CONSENT. WORK MAY BE ALLOWED WHEN REQUESTED, BUT ONLY WITH WRITTEN CONSENT.

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

THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE CITY OF ANN ARBOR FIRE & POLICE DEPARTMENTS, POST OFFICE, AND THE CITY 24 HOURS IN ADVANCE OF PROPOSED ROAD CLOSURES, OR TEMPORARY TRAFFIC CONTROL MEASURES.

THE CONTRACTOR SHALL, BEFORE EACH DAY'S WORK, OR WHEN MOVING TO A NEW AREA OF WORK, DETERMINE AND EVALUATE THE LOCATION OF ALL UNDERGROUND FACILITIES IN THE AREA. IF LOCATION STAKES HAVE BEEN MOVED OR DO NOT APPEAR CORRECT, THE CONTRACTOR SHALL NOT EXCAVATE UNTIL ALL UTILITIES HAVE HAD AN OPPORTUNITY TO CHECK OR RE-STAKE THEIR LOCATIONS. ANY DELAYS INCURRED, DUE TO THE CHECKING OR RE-STAKING OF UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION.

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

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

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

CONTRACTOR TO SUBMIT DETAILED CONSTRUCTION SEQUENCE AT THE PRECONSTRUCTION MEETING NOTING ALL CHANGES TO PROPOSED SCHEDULE OF WORK PROPOSED OR WORK PROPOSED TO OCCUR CONCURRENTLY WITH OTHER ITEMS OF WORK.

CONSTRUCTION NOTES:

DRIVEWAYS AND ENTRANCES TO BUILDINGS, REAL PROPERTY AND THE LIKE SHALL NOT BE BLOCKED EXCEPT FOR SHORT DURATIONS AND ONLY WHEN APPROVED BY THE ENGINEER. VEHICULAR ACCESS SHALL BE MAINTAINED AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL NECESSARY DRIVEWAY CLOSURES WITH THE COMPOST FACILITY OPERATOR IN THE AREAS OF CONSTRUCTION.

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

LOCATION AND DEPTH OF UTILITIES AS DEPICTED ON THE PLANS IS APPROXIMATE AND SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXCAVATE AHEAD AND ADJUST DEPTH OF UTILITIES IN CONFLICT ACCORDINGLY. AND DAMAGE TO UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY TO AVOID AND/OR REPAIR AS NECESSARY.

DURING NON-WORKING HOURS, NO MORE THAN 25 FEET OF TRENCH SHALL REMAIN OPEN. ANY OPEN TRENCH SHALL BE PROPERLY SECURED WITH PROTECTIVE FENCING. THIS WORK SHALL NOT BE PAID SEPARATELY BUT INCLUDED IN THE COST OF THE PROJECT.

ALL TRENCHES SHALL BE EXCAVATED TO MIOSHA REQUIREMENTS, INCLUDING ANY REQUIRED TRENCH DESIGNS OUTLINED IN PART 9 OF THE GUIDELINES.

THE CONTRACTOR SHALL BACKFILL TRENCHES IN ACCORDANCE WITH TRENCH DETAILS SPECIFIED ON THE PLANS. CONCRETE REMOVALS AND REPLACEMENTS REQUIRED FOR THIS WORK WILL BE PAID SEPARATELY.

POSTAL DELIVERY AND REFUSE PICKUP SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.

WHEN STREET CURBS ARE UNDERMINED DUE TO CONSTRUCTION ACTIVITIES, THEY SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.

ALL CURB, SIDEWALK AND DRIVEWAY APPROACH REMOVALS SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE WORK BEING COMPLETED.

SAWED SEWER PIPE CONNECTIONS SHALL BE COUPLED WITH A FERNCO FLEXIBLE COUPLING AND A STAINLESS STEEL SHEAR RING.

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

ALL STRUCTURES RECEIVING NEW CASTINGS AS DIRECTED BY THE ENGINEER, AS SPECIFIED BY THE CASTING SCHEDULE. THE EXISTING CASTINGS SHALL BECOME THE PROPERTY OF THE CITY OF ANN ARBOR.

PAYMENT FOR DRAINAGE STRUCTURE SUMPS, WHERE SPECIFIED, SHALL BE INCLUDED IN THE PAYMENT FOR THE VARIOUS DRAINAGE STRUCTURE SIZE AND/OR TYPES.

WHERE SEWER PIPES OF DIFFERENT SIZES OR MATERIALS ARE JOINED, FERNCO FLEXIBLE COUPLINGS WITH STAINLESS STEEL SHEAR RINGS SHALL BE USED. THE CONTRACTOR'S PURCHASE PRICE FOR THESE DEVICES, INCLUDING SHIPPING, SHALL BE PAID AS AN EXTRA. PRIOR TO PAYMENT OF THIS ITEM, THE CONTRACTOR SHALL SUBMIT RECEIPTS FOR THE ENGINEER'S REVIEW AND APPROVAL. ALL OTHER COSTS ASSOCIATED WITH THE INSTALLATION OF THESE DEVICES SHALL BE INCLUDED IN THE PAYMENT OF THE SEWER.

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

TRAFFIC MAINTENANCE & CONTROL

ON-SITE TRAFFIC SHALL BE MAINTAINED SO AS TO NOT INTERFERE OR INTERRUPT THE OPERATIONS OF THE COMPOSTING FACILITY OPERATIONS. CONTRACTOR TO COORDINATE WITH SITE OPERATIONS MANAGER AND PUBLIC WORKS OPERATIONS PRIOR TO START OF CONSTRUCTION

TRAFFIC MAINTENANCE & CONTROL REQUIRED SHALL BE INCIDENTAL TO DREDGING OPERATIONS

ALL CONSTRUCTION TRAFFIC SHALL USE THE PLATT ROAD ENTRANCE

SITE ACCESS & OPERATIONS SHALL BE COORDINATED WITH THE CITY AND SITE OPERATIONS MANAGER FROM "WE CARE"

DREDGING

DREDGING IS BASED ON SURVEYED CROSS-SECTIONS AND PROFILES. ACTUAL ELEVATIONS TO BE STAKED IN THE FIELD.

CONSTRUCTION STAKING:

GRADING LIMITS, ELEVATIONS, AND LOCATIONS OF STRUCTURES AND BANK TREATMENTS SHALL BE STAKED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE OF STAKING NEEDS PRIOR TO WORK COMMENCING. THE CONTRACTOR SHALL MAINTAIN ALL STAKING THROUGH THE DURATION OF THE PROJECT.

UTILITIES

THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES WITHIN THE PROJECT LIMITS:

Table with 3 columns: PUBLIC UTILITIES, OWNER, CONTACT. Rows include Forestry, Sanitary Sewer, Storm Sewer, Traffic Signs & Signals, Water System, Private Utilities, Gas, Electric, Phone, Cable, ITC, and Fiber Optic.

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

ALL GAS FACILITIES SHALL BE PROTECTED AND SUPPORTED PER DTE STANDARDS AS APPLICABLE

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

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

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

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

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

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

STAGING AREA NOTES

STAGING AREA FOR PROJECT SHALL BE LIMITED TO THE AREA SHOWN ON THE PLAN SHEETS.

IF THE CONTRACTOR WOULD LIKE TO PROPOSE ANOTHER STAGING AREA LOCATION, THE LOCATION MUST BE SUBMITTED IN WRITING TO BE APPROVED BY THE ENGINEER.

RESTORATION OF THE STAGING AREAS IS INCLUDED IN THE QUANTITIES OF SEED AND TOPSOIL/COMPOST AND IS PAID AS PART OF THOSE ITEMS

CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING DAMAGED PAVEMENT CAUSED BY ACTIVITIES OUTSIDE THE WORK AREA AND DESIGNATED HAUL ROUTE.

THE STAGING AREA MUST BE FENCED OFF FROM THE PUBLIC, AND ONLY CONSTRUCTION RELATED TRAFFIC WILL BE PERMITTED WITHIN ITS LIMITS.

SESC MEASURES REQUIRED AT STAGING AREAS ARE INCLUDED IN QUANTITIES

HEAVY EQUIPMENT ACCESS AND OPERATION

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

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

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

ALL EQUIPMENT ENTERING THE SITE SHALL COMPLY WITH THE SPECIAL PROVISION PREVENT SPREADING OF INVASIVE SPECIES CONTROL MEASURES.

MISCELLANEOUS

FOR PROPOSED WORK IN AREAS CLOSE TO UTILITY POLES, NO EXCAVATIONS WITHIN TEN (10) FEET AND NO BORES WITHIN (3) FEET FROM THE UTILITY POLES ARE ALLOWED.

CONTRACTOR RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING TRAFFIC SIGNS DAMAGED BY OPERATION DURING CONSTRUCTION. SIGNS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MMUTCD.

ACCESS TO AREAS OUTSIDE OF PROJECT LIMITS TO BE APPROVED BY THE ENGINEER PRIOR TO START OF CONSTRUCTION.

CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES WITH OTHER CONTRACTORS WORKING IN AREA.

ANY DEWATERING NECESSARY TO CONSTRUCT THIS PROJECT SHALL BE CONSIDERED INCIDENTAL AND ALL COSTS ASSOCIATED SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE AFFECTED UTILITY INSTALLATION.

ALL UTILITY CROSSINGS TO HAVE A MINIMUM OF 18" VERTICAL CLEARANCE TYPICAL.

NO RAP (RECYCLED ASPHALT PRODUCTS) WILL BE ALLOWED IN ANY WEARING COURSE.

NO BROKEN CONCRETE IN ANY RIP RAP WILL BE ALLOWED ON THIS PROJECT.

RESTORATION

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

- 1. ALL DISTURBED AREAS SHALL BE RESTORED WITH SPECIFIED SEED MIX.

REMOVE ALL CONSTRUCTION EQUIPMENT, EXCESS MATERIALS, DEBRIS, ETC., ESTABLISH FINE GRADE, AND RESTORE (PER PLANS AND SPECIFICATIONS). ALL COSTS FOR THE LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN UNIT PRICE BID FOR GRADING.

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

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

WATER REQUIRED FOR SOD AND SEEDING SHALL BE INCLUDED IN THE CONTRACT COST FOR THESE ITEMS. WATER REQUIRED FOR COMPACTION SHALL BE INCLUDED IN THE COST OF CONSTRUCTION FOR THIS PROJECT. CONTRACTOR SHALL WATER THE PLANTINGS AND SEEDED AREAS DAILY FOR A MINIMUM OF 14 DAYS WITH AN ADDITIONAL FOUR (4) WATERING EVENTS IN THE FOLLOWING TWO WEEKS AFTER THE DAILY WATERING, OR AS NECESSARY TO MAINTAIN GROWTH. WATERING SHALL NOT OCCUR ON SATURDAYS, SUNDAYS, OR IMMEDIATELY AFTER RAIN EVENTS. ALL EXCEPTIONS SHALL BE APPROVED BY THE PROJECT ENGINEER. WATER CAN BE TAKEN FROM THE RIVER FOR THE PLANTINGS. WARRANTY FOR PLANTINGS/SEED IS ONE YEAR FOLLOWING ACCEPTANCE.

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

SPRINKLER SYSTEMS SHALL NOT BE COVERED WHEN PLACING TOPSOIL AND SOD.

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

CONTRACTOR TO CHECK ON SEED AND SHRUB/PLUG GROWTH & SUPPLEMENT AS NEEDED. COSTS FOR RESEEDING AND PLANTINGS TO BE INCLUDED IN THE UNIT PRICE FOR SEEDING AND SHRUB/PLUGS.

GENERAL NOTES

CONTRACTOR SHALL OBTAIN ALL LOCAL AND STATE PERMITS REQUIREMENT TO WORK WITHIN THE UTILITY, ROAD, AND DRAIN RIGHT-OF-WAYS UNLESS OTHERWISE PROVIDED

CONTRACTOR SHALL CONFORM TO THE SOIL EROSION AND SEDIMENTATION CONTROL ACT, PA 451, AMENDED 2001, CITY OF ANN ARBOR STANDARDS, AND MACDOC STANDARDS

CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND SHALL NOTIFY THE ENGINEER IF POSSIBLE CONFLICT EXISTS.

ANY UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE IDENTIFIED AND BROUGHT TO THE ATTENTION OF THE ENGINEER

PROTECT ALL BITUMINOUS ROADS, DRIVES, OR PARKING AREAS NOT SPECIFIED TO BE REMOVED DURING CONSTRUCTION. REPAIR ANY UNAUTHORIZED DAMAGE AT CONTRACTOR'S EXPENSE.

WORK HOURS ARE 7 AM TO 7 PM MONDAY THROUGH SATURDAY. SATURDAY ACCESS WILL HAVE TO BE COORDINATED WITH SITE MANAGER. WORK ON SUNDAYS AND HOLIDAYS IS NOT PERMITTED WITHOUT OWNER APPROVAL.

ALL RIP RAP SHALL BE NATURAL TYPE MATERIAL AS APPROVED BY THE ENGINEER UNLESS OTHERWISE DIRECTED. SUBMIT SAMPLES TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. OWNER AND ENGINEER RESERVES THE RIGHT TO REJECT ANY AND ALL RIP RAP.

CONTRACTORS SHALL FINISH GRADE, SEED, FERTILIZE, AND MULCH DAILY ON ALL DISTURBED AREAS AS DESCRIBED IN THE SPECIFICATIONS. ALL AREAS TO RECEIVE LANDSCAPE SEEDING SHALL HAVE 4" TOPSOIL PLACED AS DETAILED IN THE SPECIFICATIONS. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE AS TOPSOIL SURFACE AS DIRECTED BY THE ENGINEER

UNDERGROUND UTILITIES/MISS DIG

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

PERMITS

CONTRACTOR SHALL RESTORE INCIDENTAL DAMAGES ON THE PROJECT AS DIRECTED BY OWNER AND ENGINEER

UTILITIES

ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

GRADING AROUND MANHOLES/CATCH BASINS, FLARED END SECTIONS, AND OTHER INLETS DETERMINED BY THE ENGINEER PROPERLY SHALL BE SMOOTH AND SHAPED TO PROVIDE POSITIVE DRAINAGE INTO THE INLETS.

ALL FLARED END SECTIONS UNDER 8" IN DIAMETER SHALL HAVE FACTORY SUPPLIED ANIMAL GUARD

CONSTRUCTION

TOPSOIL, RAKE, SEED, AND MULCH ALL DISTURBED GRASS AREAS. FOR FARM AREAS, REPLACE TOPSOIL, RAKE, AND FINISH GRADE. CONTRACTOR SHALL DEEP RIP ANY AREAS THAT ARE COMPACTED DUE TO CONSTRUCTION ACTIVITIES PRIOR TO PLACING TOPSOIL/COMPOST.

CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION.

CONTRACTOR SHALL COORDINATE INSTALLATION OF EROSION CONTROL STRUCTURES WITH ENGINEER PRIOR TO CONSTRUCTION. LOCATIONS, QUANTITIES, OR TYPES MAY VARY BASED ON FIELD DECISIONS.

CONTRACTOR TO HAUL ALL WOODY DEBRIS AS PART OF DREDGING OPERATION.

THE CONTRACTOR SHALL PROTECT ALL ROADWAY AND DRIVEWAY DITCH SLOPES DURING CONSTRUCTION. COST SHALL BE INCIDENTAL TO THE PROJECT

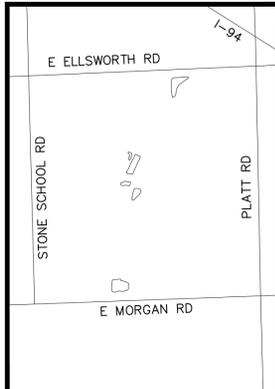
Table with 2 columns: PERMIT, ISSUING AUTHORITY. Rows include Grading/Soil Erosion & Sedimentation Control Permit, Lane Closure Permit, Wetland Permit, and Eggle Permit.

NOTE: ALL PERMITS WILL BE APPLIED FOR OR ISSUED AT TIME OF BID. THERE WILL BE NO COST TO THE CONTRACTOR. CONTRACTOR MAY BE REQUIRED TO PICK UP PERMITS AND SUPPLY REQUIRED DOCUMENTATION UPON ISSUANCE OF PERMITS.



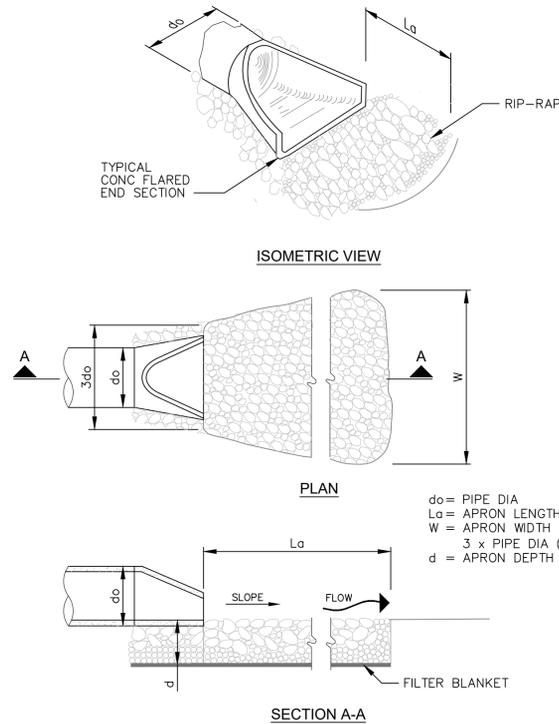
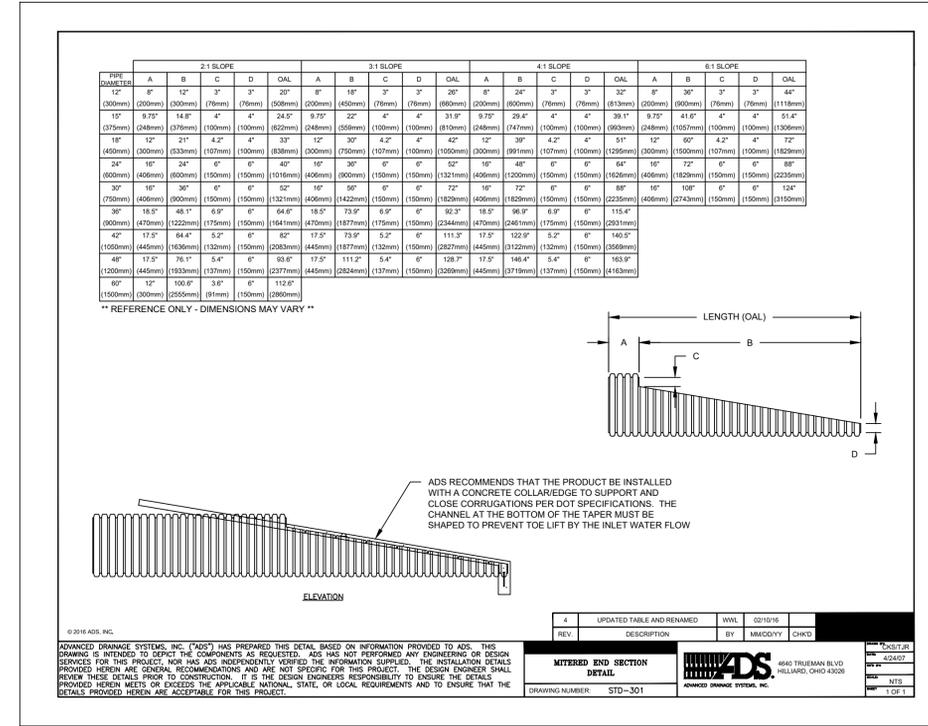
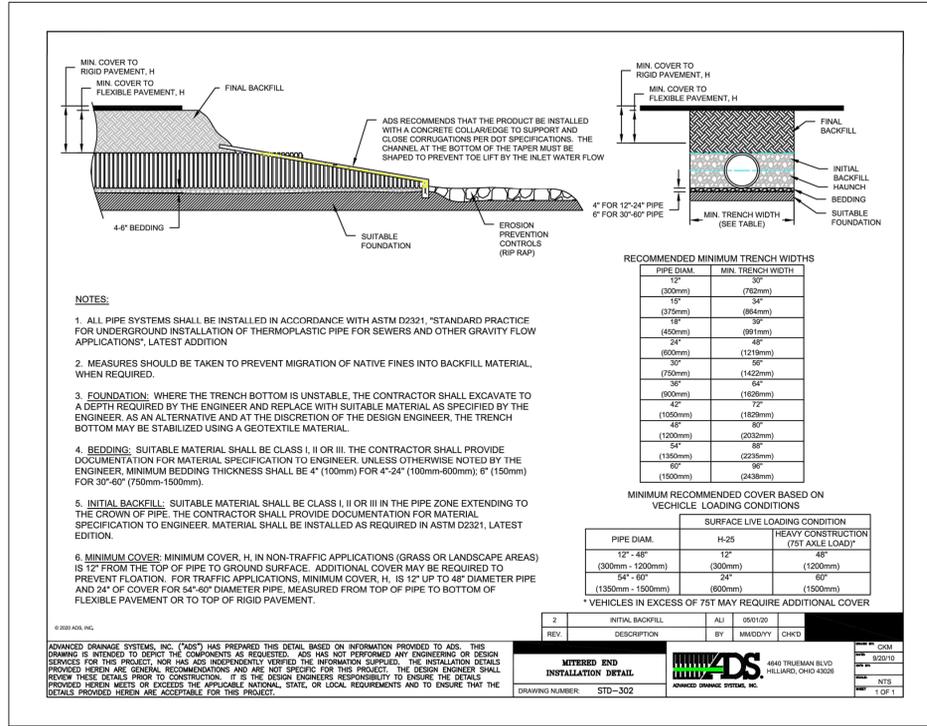
HRC Hubbell, Roth & Clark, Inc Consulting Engineers Since 1915. 555 Hulet Drive Bloomfield Hills, Mich. P.O. Box 824 48303 - 0824. Phone: (248) 454-6300. Fax: (248) 454-6312. Fax: (248) 454-6359. Website: http://www.hrcengr.com

Table with 2 columns: DATE, ADDITIONS AND/OR REVISIONS. Rows include 03/08/21 ADDENDUM No. 2, 02/08/21 SECOND CITY REVIEW, 09/24/20 ISSUED TO CITY FOR PERMITS, 06/18/20 DRAFT PLANS.

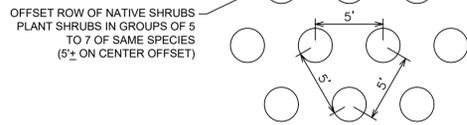
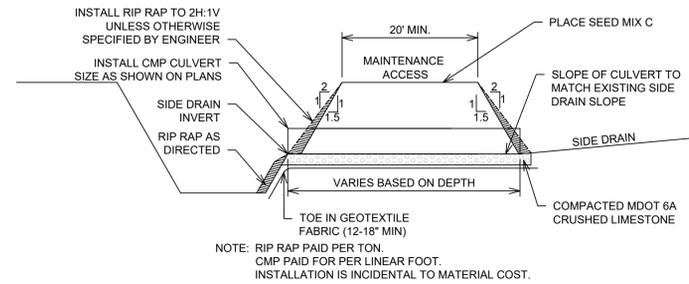


WHEELER FACILITY POND DREDGING PROJECT NOTES. HRC JOB NO. 20190818. SCALE NTS. DATE April 2020. SHEET NO. A.

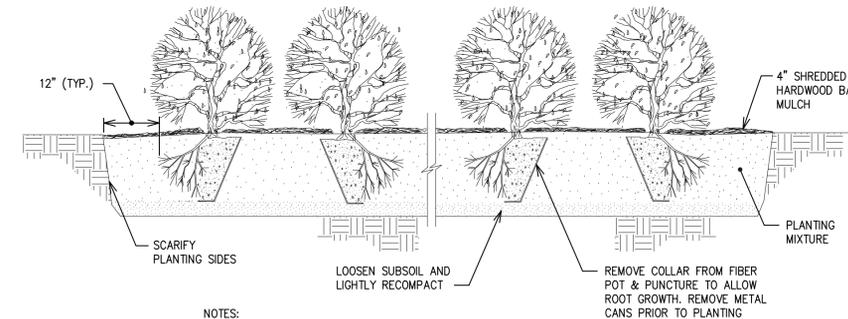
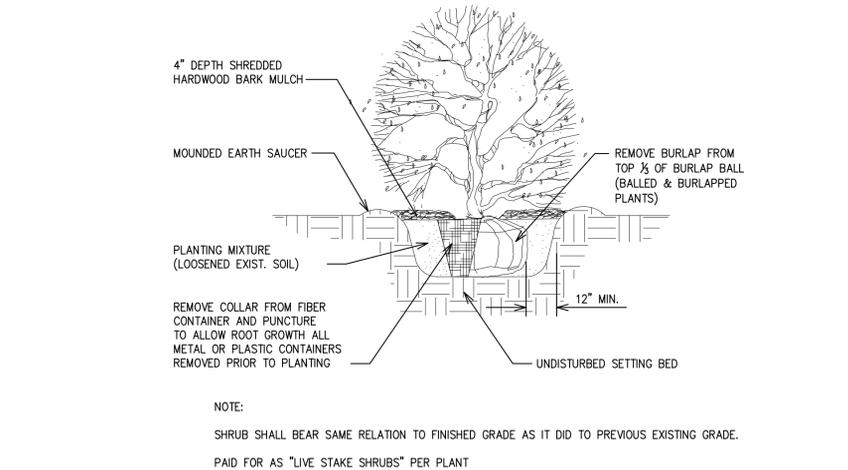




**RIP-RAP APRON - OUTLET CHANNEL DETAIL**  
 NOT TO SCALE



**TYPICAL SHRUB PLUG LAYOUT PLAN**  
 N.T.S.



**MASSED SHRUB PLANTING**  
 NO SCALE



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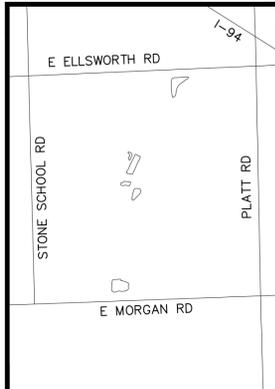
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DATE	ADDITIONS AND/OR REVISIONS
03/08/21	ADDENDUM No. 2
02/08/21	SECOND CITY REVIEW
09/24/20	ISSUED TO CITY FOR PERMITS
06/18/20	DRAFT PLANS

DESIGNED	D.HURRISH
DRAWN	D.HURRISH
CHECKED	J.BALINT, A.GROAT
APPROVED	J.BALINT, A.GROAT



**WHEELER FACILITY POND DREDGING**

**PROJECT DETAILS**

HRC JOB NO.	20190818	SCALE	NTS
DATE	April 2020	SHEET NO.	C

### SILT SOCK INSTALLATION GUIDELINES

**SLOPE INTERRUPTION**

1. A SLIGHT ENTRENCHMENT MAY BE REQUIRED ON STEEPER SLOPES TO ENSURE INTIMATE GROUND CONTACT.  
 2. REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF THE SILT SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF EFFECTIVE HEIGHT OF SOCK.  
 3. LOOSE FILTER MEDIA MAY BE BACKFILLED ON THE UPSLOPE SIDE OF SOCK TO ENHANCE PERFORMANCE.  
 4. HARDWOOD STAKES (2-4\"/>

**PERIMETER CONTROL & OVERLAPPING**

NOTE OVERLAP BASED ON FLOW DIRECTION  
 FLOW 45-90° STAKE  
 STAKE  
 1/2\"/>

**INLET PROTECTION**

SANDBAG OR BLOCK  
 SANDBAG OR BLOCK  
 IF GUARD BAR IS NOT AVAILABLE, USE A CONCRETE BLOCK

**DITCH CHECK**

DITCH CHECK  
 FLOW  
 TRENCH IF NECESSARY TO ELIMINATE UNDERFLOW  
 STAKE BEHIND THROUGH OR CROSS TO HOLD SECURELY TO GROUND

**PYRAMID INSTALLATION STAKING**

PYRAMID INSTALLATION STAKING  
 7-ROBTS OR STAKES  
 SOCKS SQUEEZED  
 10-12\"/>

A PYRAMID OF SMALLER DIAMETER SILT SOCKS WILL INCREASE THE EFFECTIVE HEIGHT OF THE DEVICE WHEN LARGER DIAMETER SOCKS ARE NOT READILY AVAILABLE OR EASY TO INSTALL.

Manufacturing or Installation Support By:

# Silt Sock

EROSION CONTROL PRODUCTS

info@siltsock.net  
608-438-7625

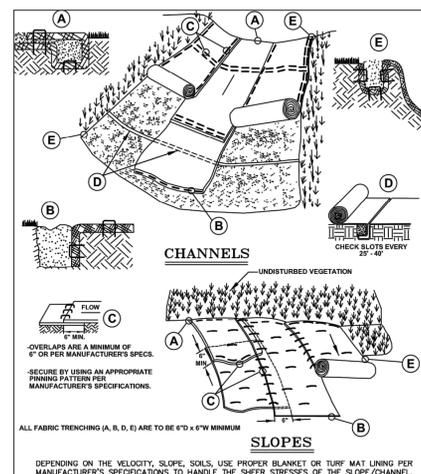
1. THESE GUIDELINES ARE BASED UPON MANUFACTURERS RECOMMENDATIONS. PROJECT SPECIFICATIONS MAY SUPERSEDE THESE GUIDELINES.
2. REFER TO REGULATORY AUTHORITY OR PROJECT ENGINEER FOR DETAILED INSTALLATION PROCEDURES.
3. WOOD FILLER MATERIAL IS PROPERLY SIZED, BIODEGRADABLE, WEED-, SEED & DISEASE FREE AND ENVIRONMENTALLY SOUND.

NOTE: PAID FOR AS "SILT SOCK/EROSION CONTROL FENCING" PER LINEAR FOOT

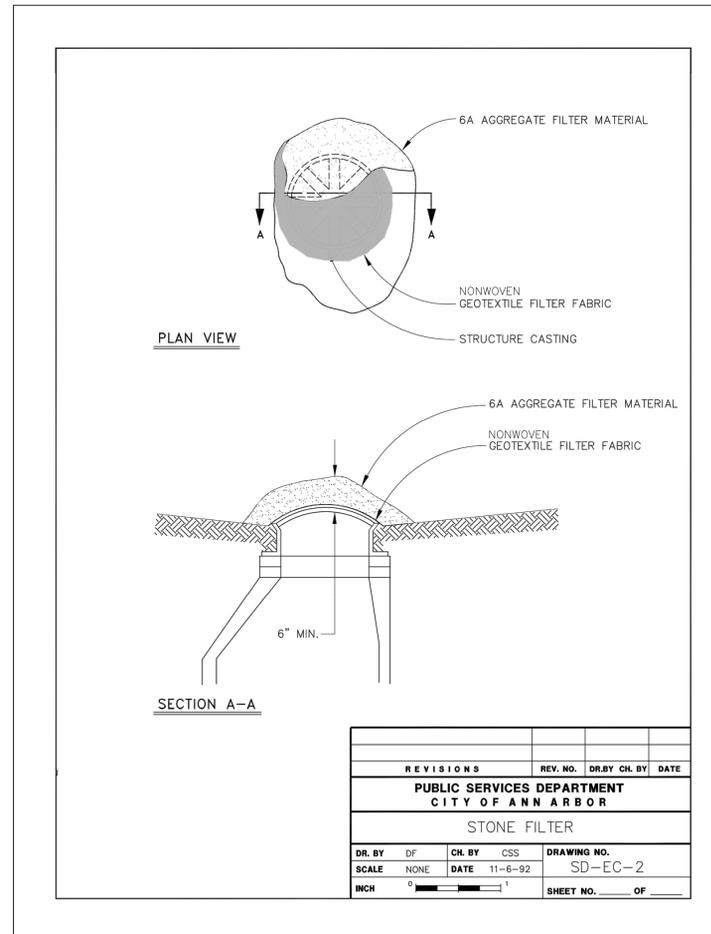
**SEQUENCE OF CONSTRUCTION - SOIL EROSION CONTROL**

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF DREDGING OPERATIONS. MEASURES TO BE INSTALLED AS DIRECTED ON PERMITS FROM CITY OF ANN ARBOR AND PITTSFIELD TOWNSHIP.
2. STRIP AND STOCKPILE TOPSOIL IN DESIGNATED STAGING AREAS. PLAN SHEETS DESIGNATE MAXIMUM AREA OF DISTURBANCE. EFFORTS SHALL BE MADE TO MINIMIZE DISTURBANCE.
3. BEGIN DREDGING OPERATION
4. CHECK AND MAINTAIN SOIL EROSION CONTROL MEASURES DAILY. ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND THE AREA IS STABILIZED.
5. COMPLETE CONSTRUCTION.
6. RESTORE ALL DISTURBED AREAS AS SPECIFIED HEREIN. PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED AREA SHALL BE INSTALLED WITHIN FIVE (5) CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED.
7. CONTRACTOR TO MAINTAIN TEMPORARY SEDIMENT CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT UNTIL GRASS IS ESTABLISHED, THEN THE CONTRACTOR IS TO REMOVE THEM.

SOIL EROSION CONTROL MEASURES ARE ITEMIZED AND WILL BE PAID FOR BY UNIT/FT ETC.. QUANTITIES ARE ESTIMATED AND MAY BE MORE OR LESS THAN WHAT IS SHOWN ON PLANS.



NOTE: PAID FOR AS "EROSION BLANKET" PER SF  
**EROSION BLANKET DETAIL**  
 NTS



NOTE: PAID FOR AS "STONE FILTER, COMPLETE" AS EACH



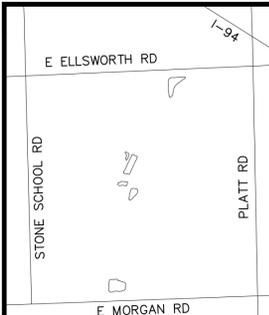
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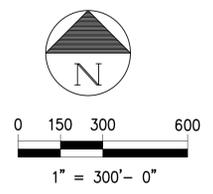
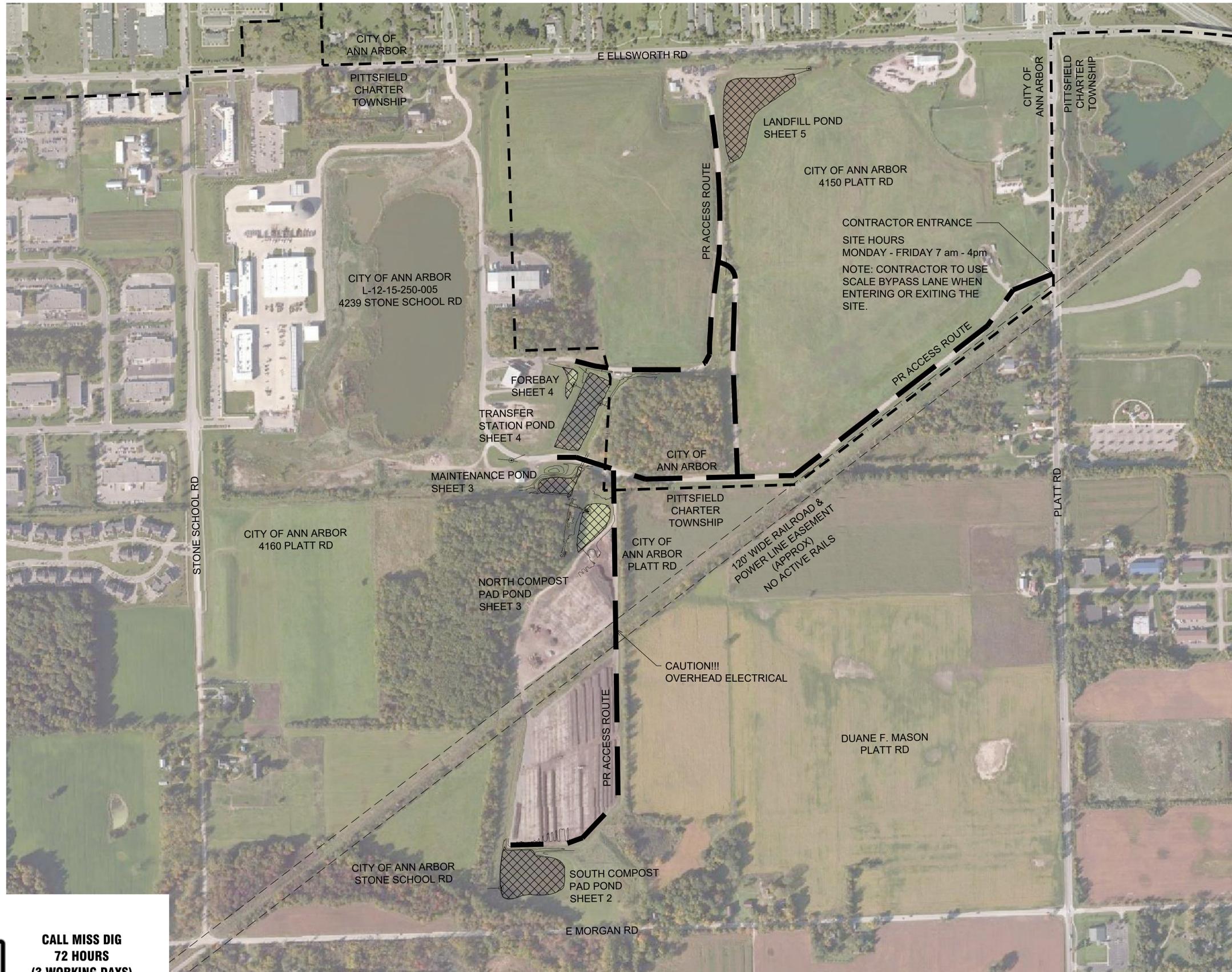
DATE	ADDITIONS AND/OR REVISIONS
03/08/21	ADDENDUM No. 2
02/08/21	SECOND CITY REVIEW
09/24/20	ISSUED TO CITY FOR PERMITS
06/18/20	DRAFT PLANS
DESIGNED	D.HURRISH
DRAWN	D.HURRISH
CHECKED	J.BALINT, A.GROAT
APPROVED	J.BALINT, A.GROAT



**WHEELER FACILITY  
 POND DREDGING**

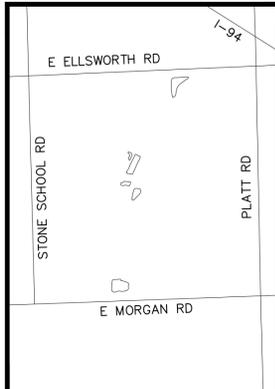
**SOIL EROSION &  
 SEDIMENT CONTROL  
 DETAILS**

HRC JOB NO. 20190818	SCALE NTS
DATE April 2020	SHEET NO. D



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**WHEELER FACILITY  
 POND DREDGING**

**OVERALL SITE  
 PLAN**

HRC JOB NO. 20190818	SCALE 1"=300'
DATE April 2020	SHEET NO. 1

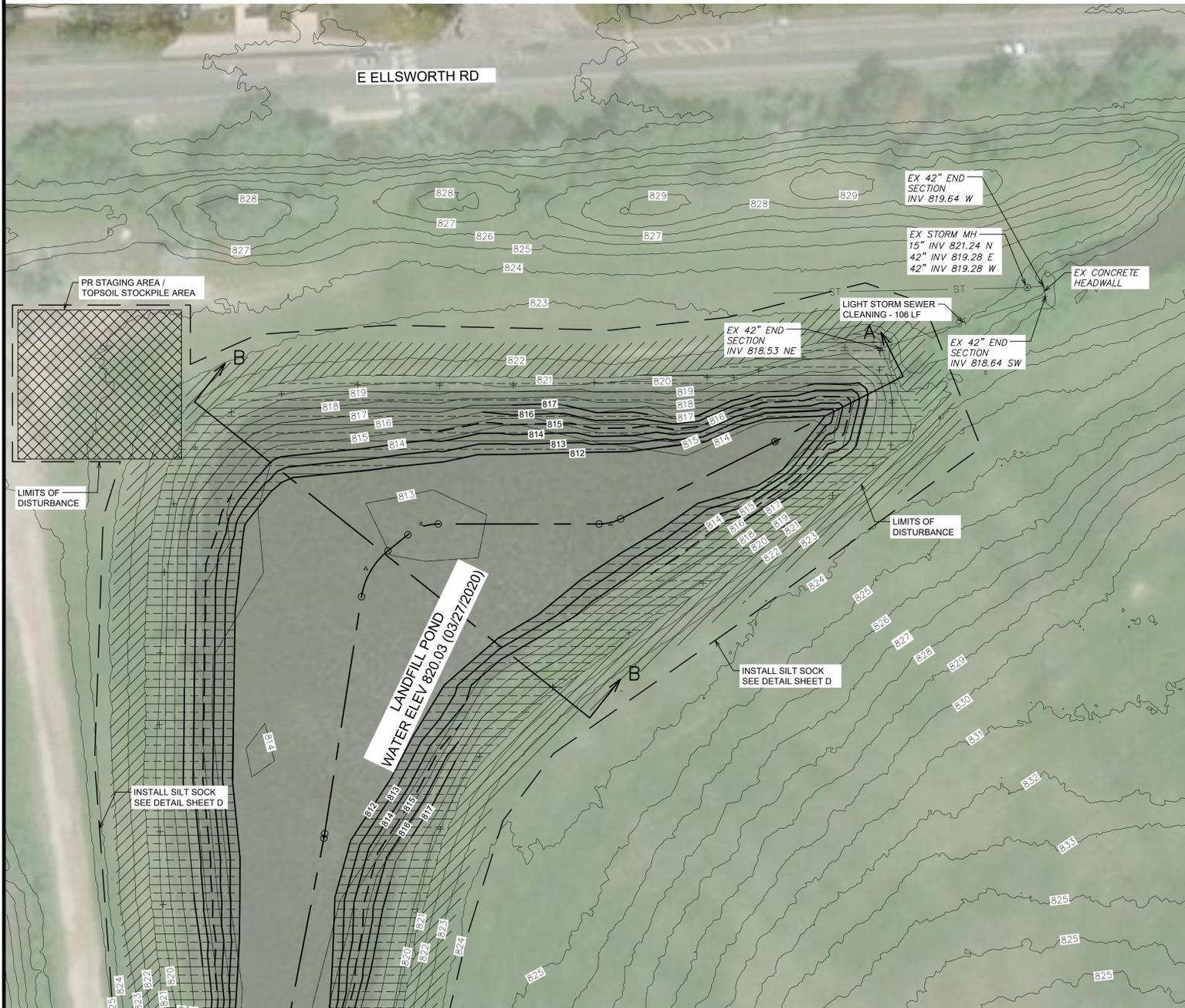
**811**  
 Know what's below  
 Call before you dig.

**CALL MISS DIG  
 72 HOURS  
 (3 WORKING DAYS)  
 BEFORE YOU DIG  
 1-800-482-7171  
 OR 811  
 (TOLL FREE)**



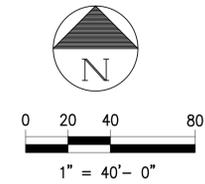






**LEGEND**

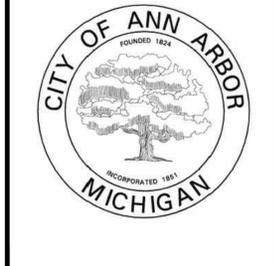
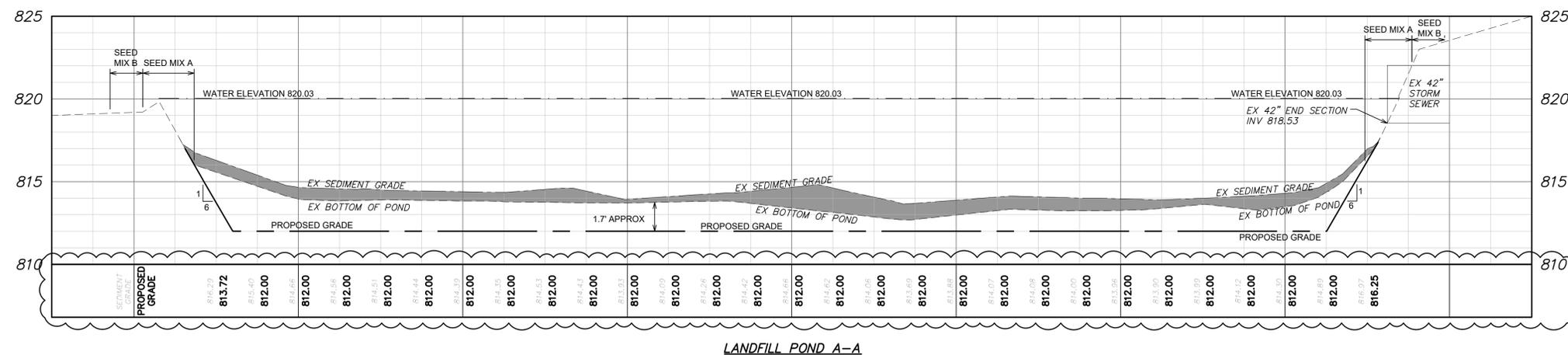
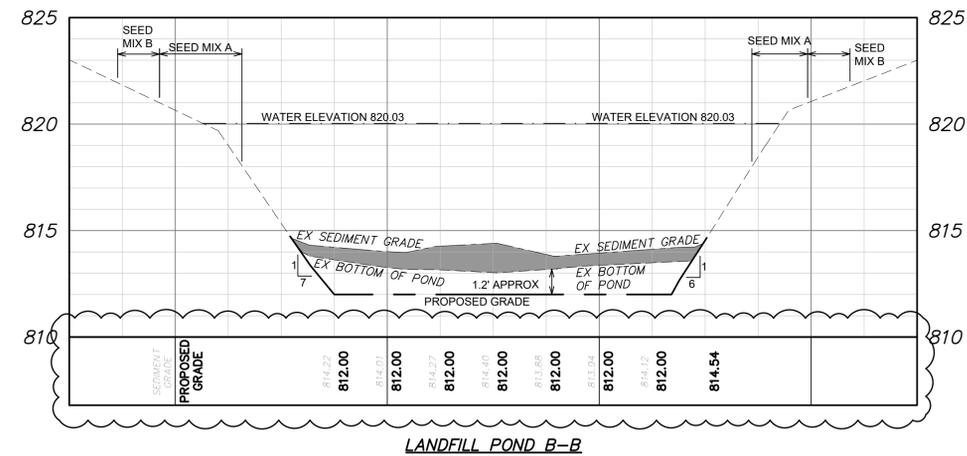
- INLET FILTER
- EX CONTOUR
- PR CONTOUR
- STAGING AREA
- SEED MIX A
- SEED MIX B
- SEED MIX C
- SHRUB PLUGS



LANDFILL POND QUANTITIES		
Item	Unit	Quantity
Sediment Removal and Earth Excavation	CY	5300
Seed Mix A	AC	1.68
Seed Mix B	AC	0.82
Light Storm Sewer Cleaning	LF	106
Erosion Blanket	SF	108780
Silt Sock	LF	2150
Strip and Stockpile Topsoil	SY	3,969

LANDFILL POND  
 POND AREA: 68,315 SF  
 AVG SEDIMENT DEPTH: 0.58 FT  
 EX POND VOLUME: 15,000 CY  
 PR POND VOLUME: 18,800 CY  
 AREA OF DISTURBANCE: 185,000 SF

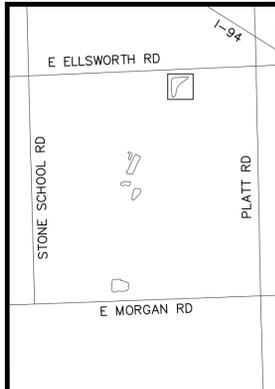
- NOTE:**
- EXISTING AERATORS WILL BE REMOVED FROM PONDS BY FACILITY STAFF
  - CONTRACTOR WILL REMOVE PHARMGMITES AS PART OF DREDGING OPERATION AND DISPOSE OF WITH DREDGED MATERIAL
  - MISS DIG STAKING SHALL BE WITNESSED BY CONTRACTOR
  - STORM SEWER TO BE CLEANED AS NOTED ON PLAN. SEE SPECIFICATIONS FOR REQUIREMENTS
  - CONTRACTOR TO MANAGE WATER ELEVATION TO FACILITATE SEED GROWTH



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**WHEELER FACILITY  
 POND DREDGING**

**LANDFILL POND**

HRC JOB NO. 20190818	SCALE H: 1"=40' V: 1"=4'
DATE April 2020	SHEET NO. 5

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