Gun Lake Tribe
Wastewater Treatment Plant/Surcharge Contract
Allegan County, Michigan
Project Number 211167

Addendum No. 01

Date: November 4, 2022

ADDENDUM
PAGE 1 OF 1

OWNER:	Gun Lake Tribe Allegan County, MI
CONSTRUCTION MANAGER:	Fishbeck 1515 Arboretum Drive, SE Grand Rapids, MI 49546
DRAWING REVISION NO.:	A1
ISSUED HEREWITH:	
SPECIFICATION SECTIONS:	None
REFERENCE MATERIAL:	Project Schedule, revised November 2, 2022
SHEETS:	C111
BIDS DUE:	November 16, 2022, at 3:00 p.m., local time

This Addendum is issued to all Bid Set Holders, is a part of the Contract Documents, and modifies the previously issued Bidding Documents. Acknowledge receipt of this Addendum in the space provided on the Bid form; failure to do so may result in rejection of the Bid.

ITEM NO. 1:
Reference: Project Schedule (reissued)
A. Replace the Project Schedule in Section 01 11 00 Summary of Work with updated Project Schedule, dated November 2, 2022.

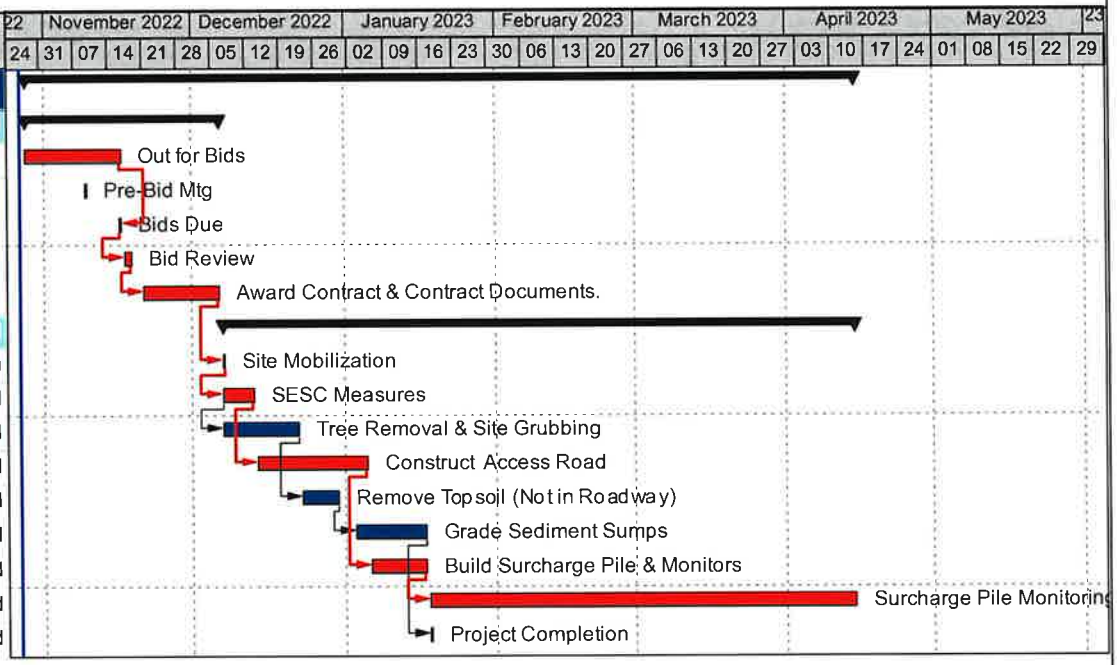
ITEM NO. 2:
Sheet: C111 – Surcharge Layout & Grading (reissued)
A. Replace Sheet C111 with updated C111.

END OF ADDENDUM

GLT - WWTP Surcharge

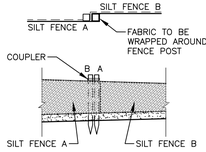
Fishbeck CM

Activity ID	Activity Name	Planned Start	Planned Finish	Original Duration
GLT - WWTP Surcharge		28-Oct-22	14-Apr-23	114d
Bidding & Award		28-Oct-22	06-Dec-22	25d
BA1000	Out for Bids	28-Oct-22	16-Nov-22	13d
BA1005	Pre-Bid Mtg	09-Nov-22	09-Nov-22	1d
BA1010	Bids Due	16-Nov-22	16-Nov-22	1d
BA1020	Bid Review	17-Nov-22	18-Nov-22	2d
BA1030	Award Contract & Contract Documents.	21-Nov-22	06-Dec-22	10d
Construction		07-Dec-22	14-Apr-23	89d
C1000	Site Mobilization	07-Dec-22	07-Dec-22	1d
C1010	SESC Measures	07-Dec-22	13-Dec-22	5d
C1020	Tree Removal & Site Grubbing	07-Dec-22	22-Dec-22	12d
C1050	Construct Access Road	14-Dec-22	05-Jan-23	15d
C1030	Remove Topsoil (Not in Roadway)	23-Dec-22	30-Dec-22	5d
C1040	Grade Sediment Sumps	03-Jan-23	17-Jan-23	10d
C1060	Build Surcharge Pile & Monitors	06-Jan-23	17-Jan-23	7d
C1070	Surcharge Pile Monitoring	18-Jan-23	14-Apr-23	62d
C1080	Project Completion	18-Jan-23	18-Jan-23	1d

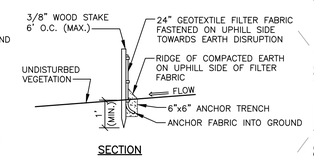


Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Date	Revision	Checked	Approved
28-Oct-22	Project Schedule	X	RJO
02-Nov-22	Updated for Addendum No. 1	X	RJO



SILT FENCE JOINT



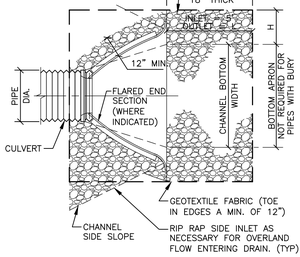
SECTION

NOTES:

1. CONSTRUCT SILT FENCE BEFORE UPSLOPE GROUND COVER IS REMOVED. CLEARING, GRUBBING, AND STUMPING CAN OCCUR BEFORE SILT FENCE INSTALLATION IF GROUND COVER IS NOT REMOVED.
2. PLACE ALL SILT FENCE PARALLEL TO THE SLOPE AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. INSTALL ENDS OF THE SILT FENCES UPSLOPE 12" IN ELEVATION SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
4. INSTALL THE TRENCH WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
5. WHERE TWO SECTIONS OF PREFABRICATED SILT FENCE ARE COMBINED INTO ONE RUN, THE END POSTS SHALL BE CONNECTED TOGETHER, NOT SIMPLY OVERLAPPED.
6. SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: A) AN ADDITIONAL RUN OF SILT FENCE SHALL BE PLACED UPSTREAM, B) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, C) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR D) OTHER BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED.
7. INSPECT FREQUENTLY AND IMMEDIATELY AFTER EACH STORM EVENT. CHECK SEVERAL TIMES DURING PROLONGED STORM EVENTS. IF NECESSARY, REPAIR IMMEDIATELY.
8. REMOVE SEDIMENT DEPOSITS WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.
9. REMOVE SILT FENCE ONLY WHEN ALL UPSTREAM VEGETATION IS FULLY ESTABLISHED AND DIRECTED BY ENGINEER/OWNER.

54 SILT FENCE DETAIL
NO SCALE SE-054

PIPE DIA	L (FEET)	H (FEET)
12	5	2
15		
18		
21	10	4
24		



NOTE:
"H" PROVIDES FOR RIP RAP UP TO THE MIDPOINT OF THE AVERAGE PIPE DIAMETER IN THE GROUPING.

"L" FOLLOWS MINIMUM APRON LENGTHS BASED ON EMPIRICAL FORMULA U.S.E.P.A. 1976 L=3O/D3/2 FOR TAILWATERS GREATER THAN 0.5D (D=DIAMETER).

RIPRAP SIZE IS MDOT HEAVY.

RIPRAP END TREATMENT DETAIL
NO SCALE 02271-02

EGLE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

KEY	DETAIL	CHARACTERISTICS
6	Seeding with Mulch and/or Matting	Facilitates establishment of vegetative cover. Effective for drainageways with low velocity. Easily placed in small quantities by inexperienced personnel. Should include prepared topsoil bed.
13	Riprap, Rubble, Gabions	Used where vegetation is not easily established. Effective for high velocities or high concentrations. Permits runoff to infiltrate soil. Dissipates energy flow at system outlets.
54	Geotextile Silt Fence	Use geotextile and posts or poles. May be constructed or prepackaged. Easy to construct and locate as necessary.
57	Stabilized Construction Access	Used at every point where construction traffic enters or leaves a construction site.

(XX) T TEMPORARY MEASURE
(YY) P PERMANENT MEASURE

SURCHARGE LAYOUT & GRADING

SCALE: 1" = 30'
NORTH
0 15 30 60

ACCESS DRIVE CROSS SECTION
NO SCALE

TEMPORARY SEDIMENT POND OUTLET
NO SCALE

BENCH MARKS

BENCH MARK A ELEVATION: 764.06
CHISELED SQUARE ON EAST SIDE OF LIGHT POLE, NE SIDE OF WASTEWATER TREATMENT PLANT, EAST OF CIRCLE BUILDING.

BENCH MARK B ELEVATION: 757.95
COTTON SPINDLE IN WEST SIDE OF 12" TREE 110 FEET NORTH OF CREEK, AT SE CORNER OF SITE.

BENCH MARK C ELEVATION: 756.87
COTTON SPINDLE IN EAST SIDE OF 12" TREE, 55 FEET NORTH OF CREEK AT SW CORNER OF SITE.

SYMBOL LEGEND

- 725 — EXISTING MAJOR CONTOUR
- 724 — EXISTING MINOR CONTOUR
- 725 — PROPOSED MAJOR CONTOUR
- 724 — PROPOSED MINOR CONTOUR
- B-1 10' — SOIL BORING
- SB-1 10' — HISTORICAL SOIL BORING
- TREE REMOVAL

NOTES

1. DIMENSIONS ARE TO BACK OF CURB, OUTSIDE FACE OF BUILDING, AND EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
2. KEEP THE APPROVED AND/OR MOST CURRENT SET OF PROJECT DRAWINGS ON SITE AT ALL TIMES. CONTRACTOR TO CONFIRM THEY ARE IN POSSESSION OF THE MOST CURRENT DRAWING FILES.
3. STRIP ALL TOPSOIL, ORGANIC SOILS, SILT (ML), AND SILTY SAND (SM) FROM AREA TO BE FILLED, REMOVE FROM SITE AND DISPOSE OF PROPERLY.
4. TEST COMPACTION OF EXISTING GRADE BEFORE PLACING FILL BY PROOF ROLLING AREA WITH HEAVY EQUIPMENT IN PRESENCE OF TESTING FIRM.
5. ALL SUBGRADE WITHIN 12" OF SURFACE MUST BE TESTED TO CONFIRM SUBGRADE SOILS ARE COMPACTED TO AT LEAST 95% OF THE SOILS' MAXIMUM DRY DENSITY (MODIFIED PROCTOR ASTM D1557) BEFORE PLACING ANY FILL. COORDINATE WITH MATERIALS TESTING CONSULTANTS AND FISHBECK SURVEY DEPARTMENT.
6. PLACE MDOT CLASS II FILL SURCHARGE FROM EXISTING SUBGRADE UP TO PLANNED BUILDING GRADE IN 9" LIFTS AND COMPACT TO 95% MAXIMUM DRY DENSITY (ASTM D1557). TESTING ON COMPACTION REQUIRED.
7. CONTINUE PLACING SURCHARGE UP TO ELEVATION SHOWN. FILL ABOVE BUILDING ELEVATIONS DOES NOT NEED TO BE COMPACTED.
8. INSTALL MULCH BLANKET AND SEED WITH ANNUAL RYE GRASS.
9. LEAVE FILL IN PLACE UNTIL SETTLEMENT IS COMPLETE (ESTIMATED TO BE 12 WEEKS).
10. FILL REMOVAL DONE BY PHASE 2 SITE EXCAVATION CONTRACTOR.
11. INSTALL FOUR MONITORING PLATES (MP–#) AS DIRECTED BY ENGINEER. THE MONITORING PLATES SHOULD BE 2.5"x2.5"x.25" STEEL WITH A 1" DIAMETER STEEL PIPE WELDED SECURELY TO THE STEEL BASE. THE ROD SHOULD BE SLEEVED WITH 3" DIAMETER SCHEDULE 40 PVC WITH A MINIMUM OF 12" OF ROD EXPOSED ABOVE THE SLEEVE. THE CONTRACTOR SHOULD PLACE AND MANUALLY COMPACT MDOT CLASS II FILL WITHIN A 3' RADIUS OF THE MONITORING PLATES/RODS TO PREVENT DISTURBANCE DURING MASS GRADING ACTIVITY.
12. ALL IMPORTED MATERIAL TO BE MDOT CLASS II SAND.
13. REMOVE ALL TREES, STUMPS, AND ROOTBALLS WITHIN CLEARING LIMIT AREA.

A1

SESC NOTES

1. MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON THE SITE FOR THE DURATION OF CONSTRUCTION, IF REQUIRED. ADHERE TO THE SWPPP DURING CONSTRUCTION OPERATIONS.
2. MAINTAIN AND REPAIR ALL SESC BEST MANAGEMENT PRACTICES BMPS DURING CONSTRUCTION UNTIL ALL VEGETATION IS ESTABLISHED, (ALL DISTURBED SOIL SURFACES ARE UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR AS DEFINED BY PERMIT.)
3. PERFORM ALL EARTH–DISTURBING CONSTRUCTION ACTIVITIES WITHIN THE LIMITS OF DISTURBANCE AS INDICATED ON THE DRAWINGS.
4. REVIEW THE LIMITS OF DISTURBANCE SHOWN ON THE DRAWINGS AND FIELD–STAKING THE LIMIT OF DISTURBANCE LINE PRIOR TO THE START OF CONSTRUCTION AND/OR CONTRACTORS OPERATIONS AT NO ADDITIONAL COST TO OWNER.
5. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE START OF ANY LAND CLEARING OR GRADING ACTIVITIES.
6. APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED BY SESC PERMIT AND IMPLEMENT ADDITIONAL MEASURES AS DICTATED BY SITE CONDITIONS.
7. ENSURE THAT ANY SEDIMENTATION RESULTING FROM WORK ON THIS SITE IS CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF–SITE AREAS OR IN WATERWAYS.
8. LEAVE SLOPES IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
9. LOCATE LAY DOWN, STAGING AND STOCKPILE AREAS WITHIN THE PERMITTED LIMITS OF DISTURBANCE.
10. INSTALL SILT FENCE AROUND THE PERIMETER OF ON–SITE SOIL STOCKPILE AREAS IF RUNOFF CAN IMPACT A STABILIZED PART OF THE SITE, OR LEAVE THE SITE. ADDITIONALLY, INACTIVE PORTIONS OF THE STOCKPILE AREAS ARE TO BE STABILIZED AS REQUIRED BY PERMIT.
11. IMPLEMENT TEMPORARY STABILIZATION MEASURES ON ANY DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES WILL NOT RESUME FOR 14 DAYS OR MORE. IMPLEMENTATION OF TEMPORARY STABILIZATION MEASURES MUST BE INITIATED IMMEDIATELY AND COMPLETED WITHIN SEVEN (7) DAYS FROM WHEN CONSTRUCTION ACTIVITIES TEMPORARILY CEASED ON ANY PORTION OF THE SITE. APPLY 3–5 LBS/1000 SFT. TEMPORARY SEED AND STRAW MULCH OVER DISTURBED AREA.
12. TOPSOIL AND SEED ALL EXPOSED AREAS WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE CONCLUSION OF FINAL GRADING IN THAT AREA.
13. REGULARLY CHECK SEEDED AREAS TO SEE THAT A GOOD STAND OF VEGETATION IS "ESTABLISHED". VEGETATION WILL NOT BE CONSIDERED "ESTABLISHED" UNTIL 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED WITH PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER. FERTILIZE, WATER, RESEED AND MULCH AS NEEDED.
14. MINIMIZE TRACKING OF SOIL AND SEDIMENT ONTO OFF–SITE ROADWAYS THROUGH THE USE OF APPROPRIATE MEASURES. IMMEDIATELY REMOVE ANY SOIL OR SEDIMENT TRACKED ONTO THE ROADWAYS.
15. NO VEHICLES AND EQUIPMENT CLEANING IS ALLOWED AT LOCATIONS WHERE RUNOFF COULD FLOW DIRECTLY INTO A WATER COURSE OR DOWNSTREAM STORM SEWER.

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fishbeck
Engineers | Architects | Scientists | Constructors

Gun Lake Tribe
Allegan County, Michigan
Wastewater Treatment Plant

REVISIONS

11/04/2022 ADDENDUM #1
10/28/2022 ISSUED FOR BIDS

Drawn By	ADO
Designer	BEV
Reviewer	ASM
Manager	AA3

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.
211167

SHEET NO.
C111

PLOT INFO: Z:\SECURE\211167\CAD\CIVIC\111211167.DWG LAYOUT: C111 DATE: 11/4/2022 TIME: 11:04:12 AM USER: ADODO