



LOCATION MAP NOT TO SCALE

GEAUGA COUNTY DEPARTMENT OF WATER RESOURCES (GCDWR) AQUILLA WWTP IMPROVEMENTS

JANUARY 2024

ISSUED FOR BID

Contract Drawings For

OPWC CG14Z/CG15Z

GCDWR PROJECT NO. P1802 HDR PROJECT NO. 10336478

PROJECT ADDRESS: 202 CORNELIA DRIVE AQUILLA VILLAGE, OHIO CLARIDON TOWNSHIP, GEAUGA COUNTY

THIS IS TO CERTIFY THAT THE CONSTRUCTION PLANS AS SHOWN HERE ARE HEREBY APPROVED BY: APPROVAL ON BEHALF OF GCDWR:

DATE 2/10/23

STEVEN OLUIC, PHD 12611 RAVENWOOD DRIVE, SUITE 390 CHARDON, OHIO 44024

DATE 2.10.2023

SHEET LIST:		
G-00	GENERAL	
G-01	GENERAL	
C-01	CIVIL	
C-02	CIVIL	
C-03	CIVIL	
C-04	CIVIL	
C-05	CIVIL	
C-06	CIVIL	
C-07	CIVIL	

OHIO UTILITIES PROTECTION SERVICE OHIO OIL & GAS PRODUCERS INDERGROUND PROTECTION SERVICE BEFORE YOU DIG ANYWHERE IN OHIO! CALL 1-800-362-2764 OR 8-1-1 (TOLL FREE) TWO WORKING DAYS BEFORE YOU DIG OHIO LAW REQUIRES 48 HOURS BUT NO MORE THAN 10 WORKING AYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST CALL 1-800-925-0988 (TOLL FREE) OR DEMOLISH (NON MEMBERS MUST BE CALLED DIRECTLY WWW.OGPUPS.COM WWW.OUPS.ORG

TICKET NO .: (SEE "O.U.P.S. REFERENCE NUMBERS")

GORRIS, PE GEAUGA COUNTY SANITARY ENGINEER

OHIO ENVIRONMENTAL PROTECTION AGENCY

ENGINEER PREPARING PLANS:

dosley. SUBMITTED BY

LESLEY A. GORDON, P.E., PROJECT MANAGER OHIO REGISTERED PROFESSIONAL ENGINEER (PE 72293) HDR ENGINEERING, INC.

2/10/2023



DATE

DATE



COVER SHEET NOTES AND SHEET LIST EXISTING CONDITIONS SITE PLAN PROFILES SAMPLING MANHOLE DETAILS STANDARD DETAILS STANDARD DETAILS LAGOON SECTIONS

ISSUED FOR BID

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GEN	NERAL NOTES:		
1.	A PRECONSTRUCTION MEETING SCHEDULED W GEAUGA COUNTY DEPARTMENT OF WATER RES ANY WORK STARTING. IN ADDITION, THE CONT WORKING DAYS NOTICE TO THE GEAUGA COUN RESOURCES PRIOR TO BEGINNING WORK TO A NON-CALL IN JOB CANCELLATION MAY BE CHAP	SOURCES SHALL BE HELD PRIOR TO RACTOR SHALL PROVIDE TWO (2) NTY DEPARTMENT OF WATER RRANGE FOR INSPECTION. RGED A MINIMUM OF 2 HOURS OF	13. ANY ADDITIONAL WORK AREA OUTSII EASEMENTS, REQUIRED TO FACILITA BY THE CONTRACTOR AT THEIR EXPE FROM THE PROPERTY OWNERS. ALL APPROVAL AS TO FORM, CONTENT, A
2.	INSPECTION TIME. THE CONTRACTOR SHALL AUDIO-VISUAL RECO	RD THE PROJECT LIMITS AND	14. THE CONTRACTOR SHALL BE RESPON ALL PERMIT, PERFORMANCE BONDS, REQUIRED BY THE COUNTY AND/OR F
	ADJACENT AREAS INCLUDING ACCESS ROADS CONSTRUCTION. THE RECORDING SHALL BE TH AND A COPY SHALL BE RETAINED AT THE COUN WITH MOBILIZATION.	HUMB DRIVE OR DIGITAL FORMAT	15. THE CONTRACTOR SHALL BE RESPO TREATMENT SYSTEMS RESULTING FF STANDARDS AND/OR GENERAL NEGL
3.	THE CONTRACTOR SHALL PROVIDE FOR THE M PEDESTRIAN TRAFFIC AT ALL TIMES DURING TH PROJECT. THE CONTRACTOR IS RESPONSIBLE REMOVAL UPON PROJECT COMPLETION OF TEI	HE CONSTRUCTION OF THIS FOR INSTALLING, MAINTAINING, AND MPORARY SURFACES, BARRICADES,	16. APPROVAL BY THE COUNTY AND/OR NEITHER EXPRESSED NOR IMPLIED V OR SUFFICIENCY OF PLANS, DESIGNS
4.	DRUMS AND SIGNING. THE SITE INCLUDES AN ACTIVE WASTEWATER CONTRACTOR SHALL COORDINATE ALL WORK	TREATMENT PLANT (WWTP). THE	17. MATERIAL SPECIFICATIONS CALLED F THE MINIMUM REQUIRED FOR EACH A THE CONTRACTOR DESIRE TO SUBST SUBSTITUTION MUST BE EQUIVALENT
E	COUNTY OPERATIONS AND ACCESS TO THE WI	WTP ARE NOT INTERRUPTED.	ON THE PLANS AND MUST BE APPRO COUNTY DEPARTMENT OF WATER RE
	THE CONTRACTOR SHALL MAINTAIN THE PLANT EXCEPT TEMPORARY PERIODS THAT HAVE BEE PLANT OPERATOR AND/OR COUNTY. AT NO TIM OFFLINE SO THAT CONTINUOUS TREATMENT C. ANY BYPASS OR TEMPORARY PUMPING REQUIN RESPONSIBILITY OF THE CONTRACTOR. THESE SPECIFICATIONS, PLANS, SPECIAL PROV	EN PREVIOUSLY APPROVED BY THE IE SHALL BOTH LAGOONS BE AN BE ACCOMPLISHED. IF THERE IS RED IT SHALL BE THE	18. ALL DIMENSIONS, GRADES, AND UTIL WERE BASED ON A COMBINATION OF CONTRACTOR SHALL NOTIFY CONST NECESSARY PLAN CHANGES PRIOR T SHOULD ANY DISCREPANCIES EXIST. PAID TO THE CONTRACTOR FOR WOF INFORMATION SHOWN INCORRECTLY
	DOCUMENTS INCLUDING THE GEAUGA COUNTY RESOURCES RULES AND REGULATIONS, EFFEC PARTS OF THE CONTRACT, AND A REQUIREMENT AS THOUGH OCCURRING IN ALL. THEY ARE INT	/ DEPARTMENT OF WATER CTIVE APRIL 1, 2015 ARE ESSENTIAL NT APPEARING IN ONE IS BINDING	 NOT BEEN GIVEN. 19. NEITHER THE COUNTY NOR THE ENG CONSTRUCTION OR SAFETY MEANS, DOCEDUDED UT UTED IN CONSTRUCTION
	AND TO DESCRIBE AND PROVIDE FOR COMPLE DISCREPANCY, CALCULATED DIMENSIONS WILL DIMENSIONS; PLANS WILL GOVERN OVER SPEC	_ GOVERN OVER SCALED CIFICATIONS, PROPOSALS AND	PROCEDURES UTILIZED IN CONSTRUC
	SPECIAL PROVISIONS WILL GOVERN OVER BOT	THIS FEEL ICATIONS AND FEANS.	20. FOR SEQUENCE OF CONSTRUCTION 3
7.	THE STANDARD SPECIFICATIONS OF THE OHIO TRANSPORTATION, CURRENT EDITION, INCLUD SPECIFICATIONS AND STANDARD DRAWINGS S	ING ALL SUPPLEMENTAL HALL BE INCORPORATED BY	THE SANITARY SEWER SYSTEM ARE
	REFERENCE AND ARE SUPPLEMENTARY TO TH THIS PROJECT. FOR THE PURPOSE OF THIS PL/ A. ALL SANITARY SEWER WORK CONTEM WITH CURRENT RULES AND REGULATION DEPARTMENT OF WATER RESOURCES.	AN: PLATED MUST BE IN ACCORDANCE IS OF THE GEAUGA COUNTY	22. DEWATERED SLUDGE SHALL BE DISP PATHOGENS AND VECTOR ATTRACTION IN THE FIELD. THE CONTRACTOR RES THE SLUDGE SHALL SUBMIT HIS/HER APPLICATION RATES SO THAT THEY N
0	B. THE CONTRACTOR SHALL INCLUDE THI MATERIAL INCLUDING COMPACTION TEST PROPOSED PAVEMENTS IN THE LUMP SU	TS UNDER ALL EXISTING AND M PRICE BID FOR EARTHWORK.	CONTRACTOR SHALL TEST THE SLUD REMOVING FROM LAGOON; A COUNT REQUIRED BY NPDES PERMIT 3PG001 AND MEET PATHOGEN REDUCTION R
8.	WORK HOURS SHALL BE LIMITED TO MONDAY T HOURS OF 7:00AM AND 7:00PM, EXCLUDING HO INDICATED AT THE PRECONSTUCTION MEETING A. WEEKEND HOURS: WEEKEND WORK, B AND 7:00 P.M., IS PERMITTED PROVIDED T OWNER AND THE ENGINEER A MINIMUM C	LIDAYS, UNLESS OTHERWISE 3. ETWEEN THE HOURS OF 9:00 A.M. THE CONTRACTOR NOTIFIES THE DF 48 HOURS IN ADVANCE OF THE	IF THE TEST RESULTS IN A NUMBER O SLUDGE MUST BE LIME STABILIZED IN ALLOWANCE HAS BEEN INCLUDED IN COMPENSATE FOR THE TIME REQUIR
	SCHEDULED WORK. CONTRACTOR WILL E COSTS RELATED TO WEEKEND AND/OR W EQUIPMENT SHALL BE USED IN A MANNER THAT OPERATION. ALL MUFFLERS AND EXHAUST SYS CONDITION AND MAINTAIN NOISE LEVELS AT LE	VEEKEND INSPECTIONS. T IS CONSISTENT WITH TYPICAL STEMS SHALL BE IN GOOD	CUMULATIVE POLLUTANT LOADING R LAND APPLICATION RATES. LABORAT INCLUDED IN THE COST FOR SLUDGE
	EQUIPMENT BEING USED. ADDITIONAL COSTS F BE PASSED ON TO THE CONTRACTOR.		23. DEWATERING MUST OCCUR ON A WA CONCRETE, THAT HAS PROPER BERN THAT WATER DERIVED FROM DEWAT
9.	IT IS THE OBLIGATION AND RESPONSIBILITY OF ADDITIONAL INVESTIGATIONS OF SURFACE AND TO SUBMITTING THEIR PROPOSAL. IN THE EVEN BIDDER DESIRES TO MAKE ANY ADDITIONAL TE	D SUBSURFACE CONDITIONS PRIOR NT THAT ANY CONTRACTOR OR	
	THE GEAUGA COUNTY DEPARTMENT OF WATER JURISDICTIONS AS NECESSARY. ALL AREAS DIS INVESTIGATIONS MUST BE IMMEDIATELY REST	STURBED BY THESE	DRAINAGE, EROSION AND SEE
10.	CONDITION. THE CONTRACTOR IS RESPONSIBLE TO COMPL OF OSHA STANDARD 29 CFR 1910.146 AND OSH COST OF THIS WORK SHALL BE INCLUDED IN TH	A STANDARD 29 CFR 1926. THE	1. CONTRACTOR SHALL AT ALL TIMES EXISTING DRAINAGE FACILITIES BE I ANY PHASE OF THE SITE CONSTRUC BE IN ACCORDANCE WITH THE STOP SUBMITTED BY THE CONTRACTOR A
11.	COMPLIANCE. ATTENTION IS CALLED TO THE FACT THAT THE CONTRACT INCLUDES THE PERFORMANCE OF IDENTICAL TO THE ITEMIZED REQUIREMENTS A INCLUDE TASKS SUCH AS: ALL COORDINATION, DEWATERING, DISPOSAL, BACKFILLING, SHEET	CERTAIN TASKS WHICH ARE ND PAY ITEMS HEREOF AND LABOR, EXCAVATION,	2. UPON COMPLETION OF PROJECT, CO PRIOR TO REMOVAL OF TEMPORARY THE OWNER AND/OR CONSTRUCTION USED, NO SEDIMENT LADEN WATER ALL SEDIMENT LADEN MATERIAL ON
	MAINTENANCE OF EXISTING PLANT SANITARY F CONTROLS, TEMPORARY RELOCATION OF EXIS PERFORMANCES HEREIN DESCRIBED, AND FOF PERFORMANCES OF LIKE NATURE. THE OWNEF SEPARATE PAYMENT FOR SUCH INCIDENTALS. INCLUDED IN THE PRICES STIPULATED TO BE P THE WORK TO BE DONE UNDER THIS CONTRAC	FLOWS, TEMPORARY POWER AND STING FACILITIES FOR THE R OTHER INCIDENTAL R WILL MAKE NO SPECIFIC OR THE COST THEREOF SHALL BE AID FOR THE VARIOUS ITEMS OF	 SHALL BE COLLECTED AND REMOVE EXPENSE. 3. PRIMARY SEDIMENT CONTROL SHAL MULCHING IMMEDIATELY UPON COM FINISHED GRADING IN ACCORDANCE TRANSPORTATION, CONSTRUCTION DIRECTED BY THE GEAUGA COUNTY
12.	THE WORK LIMITS SHALL BE THE STRICTER OF SHOWN ON THE PLANS OR THE AREA ENCLOSE FACILITY FENCE AND LIMITED TO THE EXISTING PROPERTY. MATERIALS MAY BE STORED WITHI DESIGNATED BY THE COUNTY REPRESENTATIV COORDINATE DIRECTLY WITH THE COUNTY DU STAGING AND STORAGE LOCATIONS.	THE LIMITS OF DISTURBANCE ED BY THE PROPOSED TREATMENT WWTP OR PUMP STATION N THE FENCED AREA AS /ES. THE CONTRACTOR SHALL	 RESTORATION OF ALL DISTURBED A EXCAVATION AND GRADING OPERAT NECESSITATE TEMPORARY EROSIO GEAUGA COUNTY DEPARTMENT OF CONTRACTOR.

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OF THE EXISTING COUNTY PROPERTY OR THE CONSTRUCTION, SHALL BE ACQUIRED SE IN THE FORM OF WORK AGREEMENTS ORK AGREEMENTS SHALL RECEIVE PRIOR CONDITIONS FROM THE COUNTY.

BLE FOR OBTAINING AND COMPLYING WITH SPECTIONS, OR SPECIAL PROVISIONS MITTING AUTHORITY.

BLE FOR ALL DAMAGE TO THE EXISTING M NONCONFORMANCE WITH COUNTY ENCE.

EIR REPRESENTATIVE CONSTITUTES RRANTIES AS TO THE FITNESS, ACCURACY, DR SPECIFICATIONS.

R HEREIN AND ON THE PLANS REPRESENT PLICATION. THE OWNER MAY REQUEST OR JTE ALTERNATE MATERIALS. ANY SUCH I QUALITY TO THE MATERIAL CALLED FOR D IN WRITING FORM FROM THE GEAUGA DURCES.

Y LOCATIONS SHOWN ON THESE PLANS ELD SURVEY AND RECORD PLANS. THE CTION/PROJECT MANAGER FOR PROCEEDING WITH THE CONSTRUCTION D ADDITIONAL COMPENSATION SHALL BE HAVING TO BE REDONE DUE TO THE N THESE PLANS IF SUCH NOTIFICATION HAS

EER WILL BE RESPONSIBLE FOR ETHODS, TECHNIQUES, SEQUENCES OR ION BY THE CONTRACTOR OR

E SPECIFICATION SECTION 01 11 00.

ND OTHER CLEAN WATER CONNECTIONS TO OHIBITED.

SED OF IN A MANNER THAT WILL REDUCE I BY IMMEDIATE INJECTION/INCORPORATION ONSIBLE FOR DEWATERING AND HAULING AN TO THE OWNER ALONG WITH LAND Y BE REPORTED TO OHIO EPA.

E FOR FECAL COLIFORMS BEFORE F LESS THAN 2,000,000 CFU/GRAM IS NHD STATION 581 IN ORDER TO LAND APPLY QUIREMENTS.

EATER THAN 2,000,000 CFU/GRAM THEN THE HE LAGOON PRIOR TO REMOVAL. AN HE BID FOR LIME APPLICATION AND TO TO STABILIZE THE SLUDGE.

ES WILL NEED TO BE USED IN DETERMINING RY TESTING FOR METALS SHALL BE EMOVAL, DEWATERING AND HAULING.

RTIGHT PAD, LINED WITH HDPE OR . THE AREA SHALL SLOPE TO A SUMP SUCH RING WILL BE CONVEYED TO EACH LAGOON.

MENT CONTROL:

SURE THAT SWPPP MEASURES PROTECTING PLACE PRIOR TO THE COMMENCEMENT OF ON OR LAND ALTERATION. ALL WORK SHALL WATER POLLUTION PREVENTION PLAN O APPROVED BY THE COUNTY.

TRACTOR SHALL CLEAN THE PAVED AREAS EDIMENT CONTROLS AND AS DIRECTED BY PROJECT MANAGER. IF POWER WASHING IS IALL BE WASHED INTO THE STORM SYSTEM. AVEMENT OR WITHIN THE STORM SYSTEM FROM THE SITE AT THE CONTRACTOR'S

BE ACCOMPLISHED BY SEEDING AND ETION OF EXCAVATION OR FILL AND /ITH ITEM 659 OF THE OHIO DEPARTMENT OF ID MATERIALS SPECIFICATIONS OR AS EPARTMENT OF WATER RESOURCES.

AS SHALL IMMEDIATELY FOLLOW NS. DELAY IN RESTORATION SHALL CONTROL MEASURES APPROVED BY THE ATER RESOURCES AT THE EXPENSE OF THE

- 5. ALL DISTURBED DRAINAGE CHANNELS, SWALES, DITCHES AND BERMS SHALL BE RESTORED TO THEIR ORIGINAL SHAPE AND GRADE. ALL DISTURBED DRIVE CULVERTS SHALL BE REPLACED IN THE ORIGINAL LOCATIONS AND GRADE, AT THE CONTRACTOR'S EXPENSE AND AS DIRECTED BY THE GEAUGA COUNTY DEPARTMENT OF WATER RESOURCES, EXCEPT AS NOTED ON PLANS.
- 6. ALL SEEDED AREAS SHALL BE WATERED AS NECESSARY TO ESTABLISH VEGETATIVE GROWTH. ALL WORK SHALL BE COMPLETE AND VEGETATIVE GROWTH ESTABLISHED PRIOR TO THE RELEASE OF FUNDS FOR GRADING AND SEEDING.
- 7. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING STORM WATER DRAINAGE COURSES (WHETHER SHOWN ON THE PLANS OR NOT) AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. THIS SHALL INCLUDE BUT NOT BE LIMITED TO DITCHES, DRAINAGE PIPES, DRIVEWAY CULVERTS, ROADWAY CULVERTS AND CREEKS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO COMPLY WITH OEPA, GEAUGA SOIL AND WATER CONSERVATION DISTRICT AND ANY CODE REGULATIONS FOR SILTATION, EROSION CONTROL AND STORM WATER RUNOFF. ANY CULVERTS OR STORM SEWERS DAMAGED BY THE CONSTRUCTION PROCESS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 8. THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL INSPECT THE SURROUNDING STREETS, WALKS AND DRIVES FOR MATERIAL

"TRACKED" FROM THE PROJECT SITE TO THESE AREAS. THE CONTRACTOR SHALL SWEEP THESE AREAS AS NEEDED AND AS DIRECTED TO REMOVE ALL DEPOSITED MATERIAL BY VACUUMING. ALLOWING SEDIMENT TO BECOME AIRBORNE, BY BLOWING OR OTHER METHODS, IS NOT PERMITTED. THERE WILL BE NO SEPARATE PAYMENT FOR DUST CONTROL OR STREET SWEEPING.

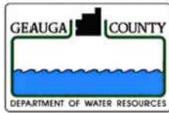
PROHIBITED CONSTRUCTION ACTIVITIES:

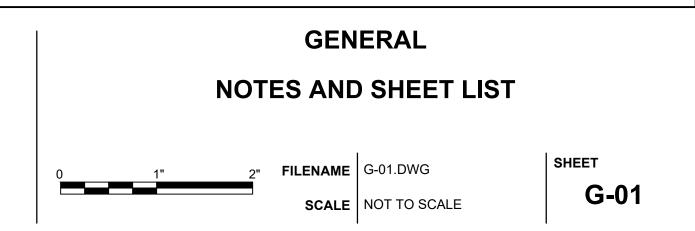
- 1. DISPOSING OF EXCESS OR UNSUITABLE SOIL MATERIAL IN WETLANDS, STREAMS OR FLOODPLAIN, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER;
- 2. LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS;
- 3. INDISCRIMINATE, ARBITRARY OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, AND SURFACE WATERS OR OUTSIDE THE WORK LIMITS;
- 4. PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, AND WETLAND OR STORM SEWERS; ALL SUCH WATER SHALL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE;
- 5. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIAL, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE RIVERS, STREAMS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO;
- 6. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM;
- 7. DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA;
- 8. DISPOSING OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS OR AT UNSPECIFIED LOCATIONS;
- 9. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT;
- 10. DISCHARGING INJURIOUS SILICA DUST CONCENTRATIONS INTO THE ATMOSPHERE RESULTING FROM BREAKING, CUTTING, CHIPPING, RILLING, BUFFING, GRINDING, POLISHING, SHAPING, OR SURFACE CLOSER THAN 200 FEET TO PLACES OF RESIDENCES OR COMMERCIAL, PROFESSIONAL, QUASI-PUBLIC OR PUBLIC PLACES OF HUMAN OCCUPATION;
- 11. STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES;

PROJECT MANAGER	L. GORDON
DESIGNED BY	SK
DRAWN BY	VKN
CHECKED BY	
APPROVED BY	
PROJECT NUMBER	10336478







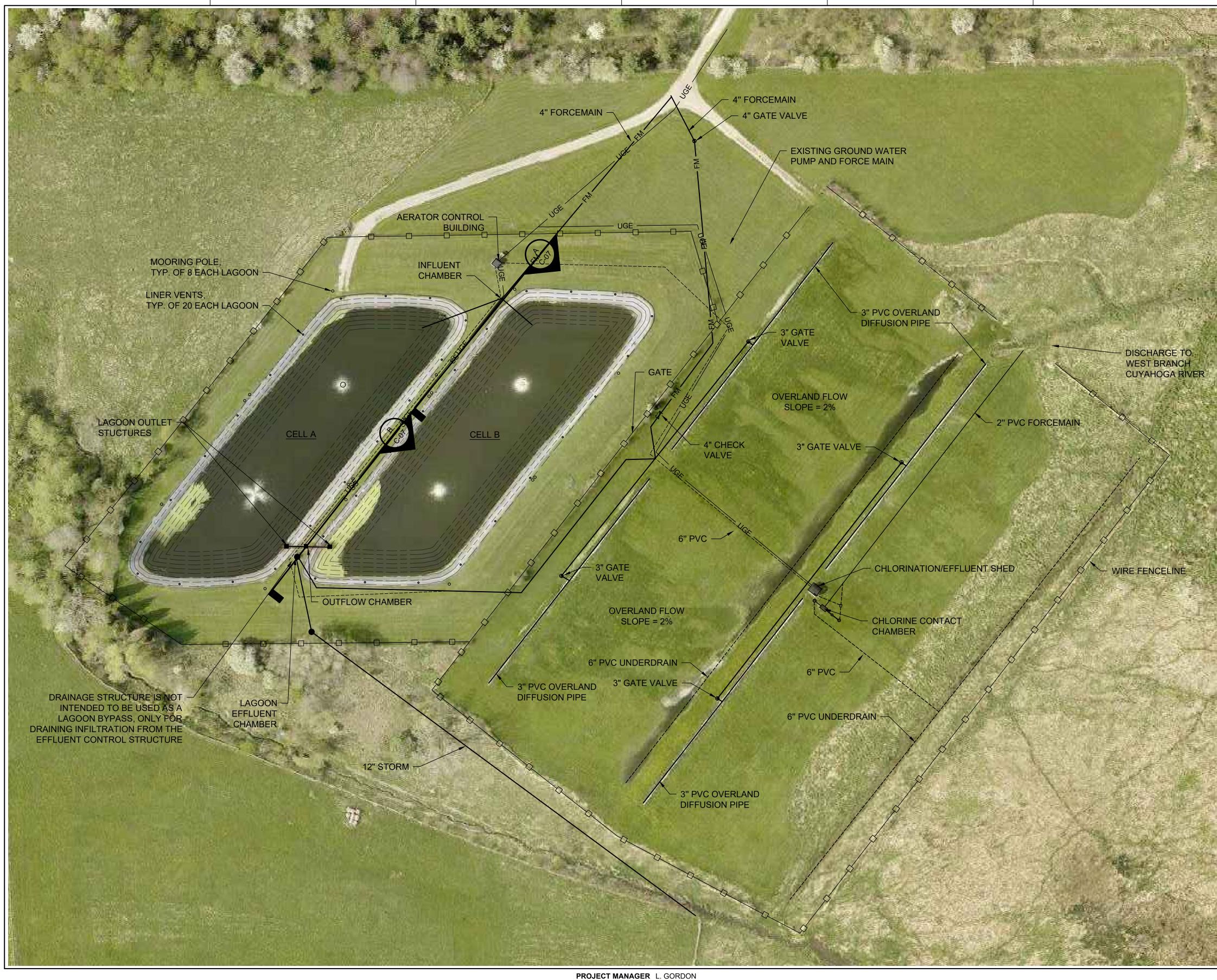


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ISSUE	DATE

DESCRIPTION

PROJECT MANAGER	L. GORDON
DESIGNED BY	SK
DRAWN BY	VKN
CHECKED BY	
APPROVED BY	
PROJECT NUMBER	10336478









NOTES:

- PROPERTY LINES ARE NOT SHOWN ON THIS PLAN VIEW. PARCEL IS PA 13-706300 OWNED BY THE GEAUGA COUNTY BOARD OF COMMISSIONERS. ALL PROPOSED WORK SHALL BE WITHIN THE COUNTY-OWNED PARCEL.
- 2. CONTRACTOR SHALL HAVE A SURVEYOR LOCATE THE PROPERTY CORNERS PRIOR TO COMMENCING WORK IN ORDER TO ENSURE THAT ALL WORK IS COMPLETED INSIDE THE PROPERTY LINES.

CIVIL

EXISTING CONDITIONS



FILENAME C-01.DWG SCALE 1"=50'

^{SHEET} С-01

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ISSUE	DATE	DESCR

DESCRIPTION

4" FORCEMAIN

AERATORS WILL BE REMOVED AND REINSTALLED (TYP.)

> 3" PVC OVERLAND **DIFFUSION PIPE**

PROPOSED ROUTE OF 1" CONDUIT WITH 1 - #18 TWISTED SHIELD PAIR CABLE

6" PVC -VERLAND FLOW SLOPE = 2%EX. MANHOLE

SEE ENLARGED PLAN CHLORINATION -AREA ON SHEET C-04 FOR DIMENSIONS

6" PVC UNDERDRAI

LAGOON EFFLUENT FLOW SENSOR. RUN VENDOR SUPPLIED CABLE IN BURIED 1" CONDUIT TO LAGOON EFFLUENT FLOW METER IN AERATION

DECHLORINATION -FEEDER

6" PVC UNDERDRAIN -

6" PVC OVERLAND DIFFUSION PIPE

2" FORCEMAIN

- CHLORINATION/EFFLUENT SHED

CHLORINE CONTACT VAULT AND FEEDER

UTILITY VAULT WITH FLOW SENSOR RELOCATED MANHOL WITH PUMP

> - 6" PVC (NOT IN SERVICE)

2" PVC FORCEMAIN

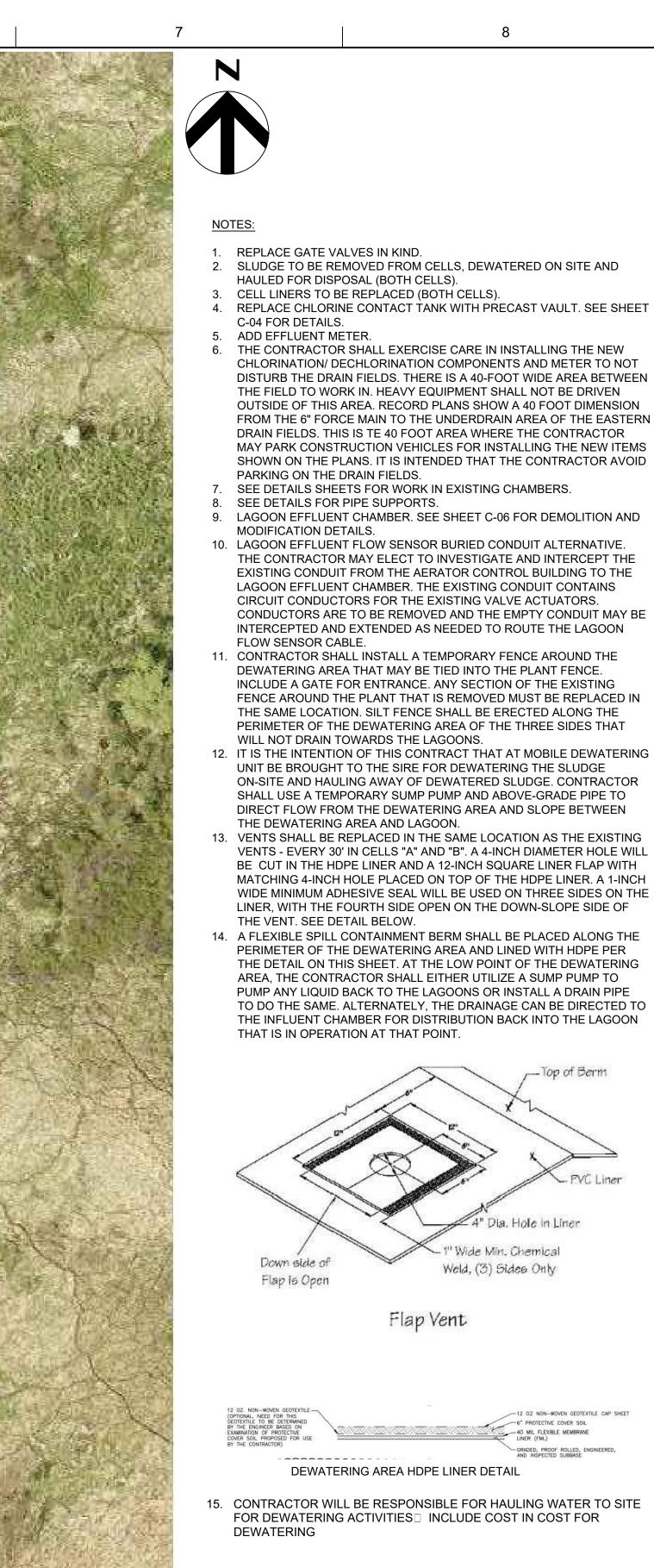
DISCHARGE WEST BRANCI CUYAHOGA RIV

PROJECT MANAGER	L. GORDON
DESIGNED BY	SK
DRAWN BY	VKN
CHECKED BY	
APPROVED BY	
PROJECT NUMBER	10336478
APPROVED BY	10336478





EPARTMENT OF WATER RESOURCES





FILENAME C-02.DWG

SCALE NOT TO SCALE

- PVC Liner

C-02

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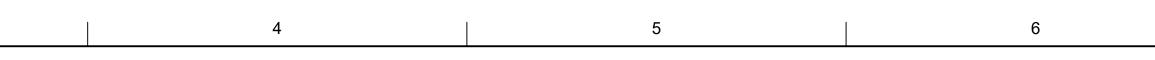
1		2		3
		LAGOON EFFLUEN	T CONTROL	
		CHAMBER		
	1152.0			
6" PV	C TO OVERLAND FLOW			1146.0
	REMOVE	EXISTING CPER LINER. INS	STALL 80 MIL HDPE LINER. $-\!\!-\!\!$	
			1152.0	_
			ل ا	~
			REMOVE E	XISTING CPER LINER. IN
				1152.0
12 OZ NON-WOVEN GEOTEXTIL	.E CAP SHEET —			J
6" PROTECTIVE COV		- 80 MIL FLEXIBLE		
		MEMBRANE LAYER (FI	ML)	
	INSPE	ED, PROOF ROLLED, ENGIN CTED SUBBASE. WHERE SL ITABLE, A GEOTEXTILE FAB	JBBASE IS	REMOVE EXISTIN
	PER S	SPECIFICATION 31 05 19 PAR	RT 2.1 (B)	
<u>REPLACEMEN</u>	T LAGOON LINE	<u>R LAYERS</u>		

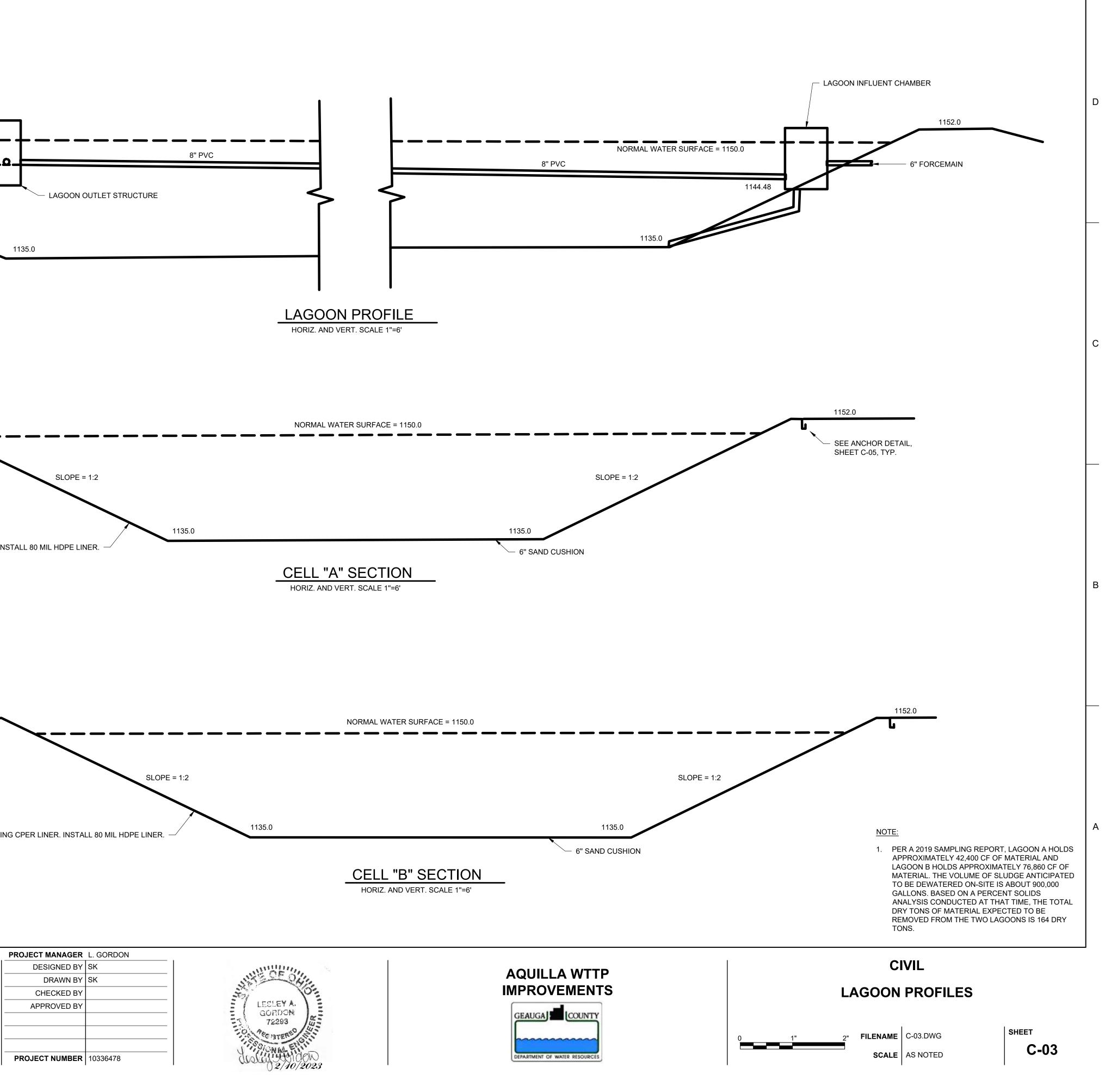
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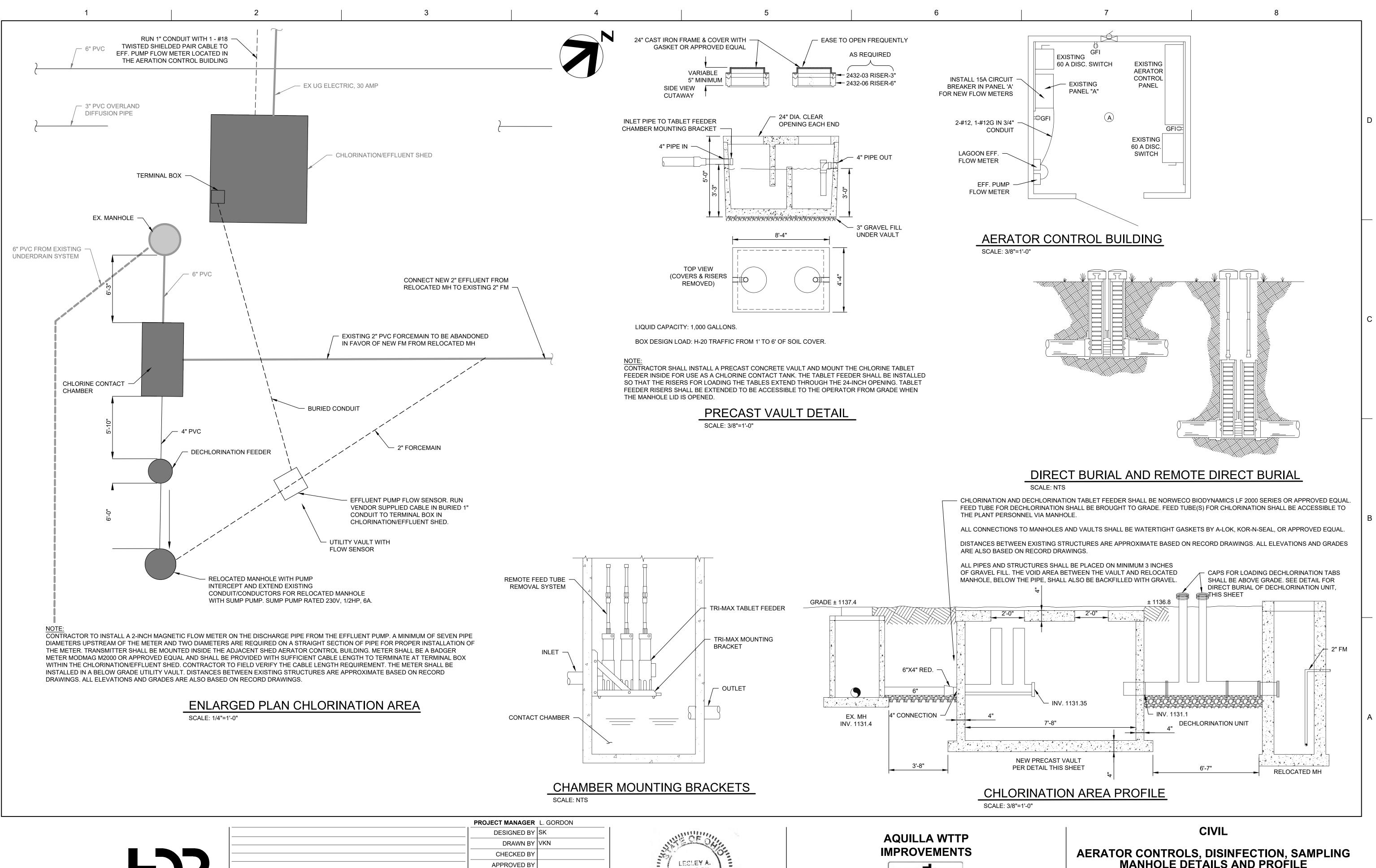
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ISSUE	DATE	DESCRIPTION	

PROJECT NUMBER	10336478



GEAUGA COUNTY

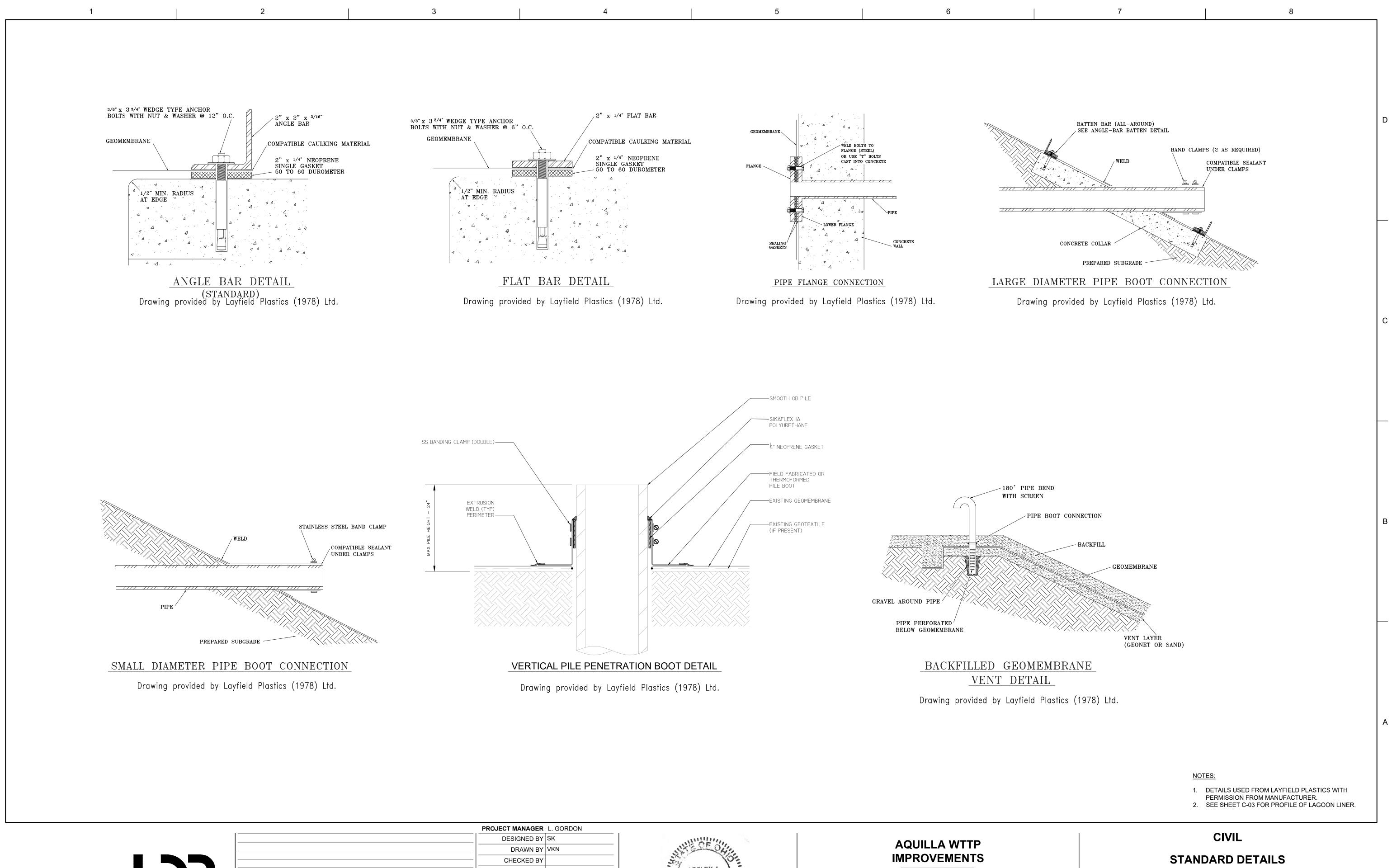
EPARTMENT OF WATER RESOURCES

MANHOLE DETAILS AND PROFILE

FILENAME C-04.DWG

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SHEET **C-04**



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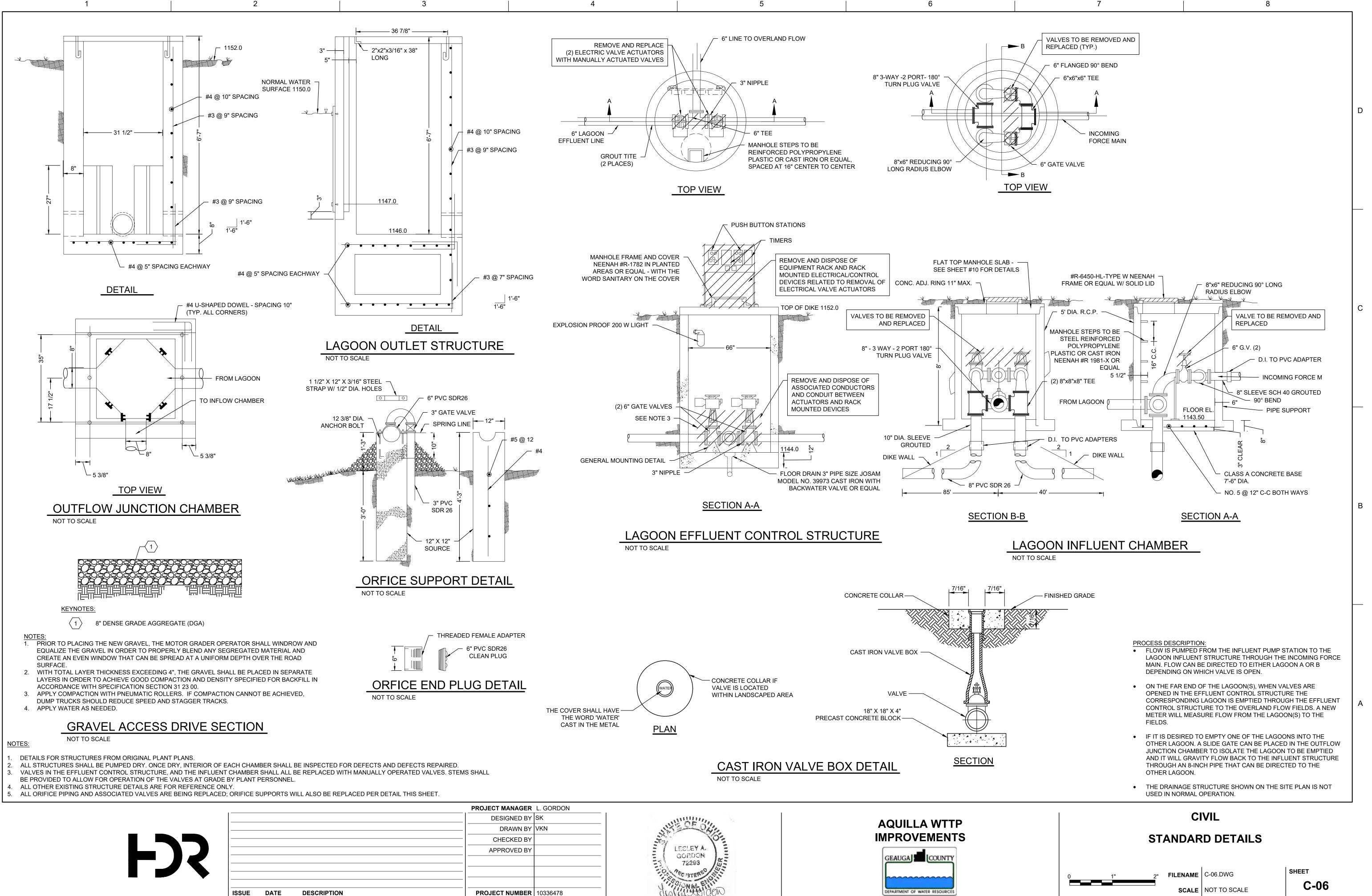
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DESIGNED BY	SK	ANNIH MARKEN STATE	
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CHECKED BY		ST VOIE	IMPROVEMENTS
APPROVED BY		E LESLEY A.	
		ES GORDON ES	GEAUGA COUNTY
		TO AECIATERE	
		1 SOLONIAL ETAIL	
PROJECT NUMBER	10336478	Justar Holdow	DEPARTMENT OF WATER RESOURCES
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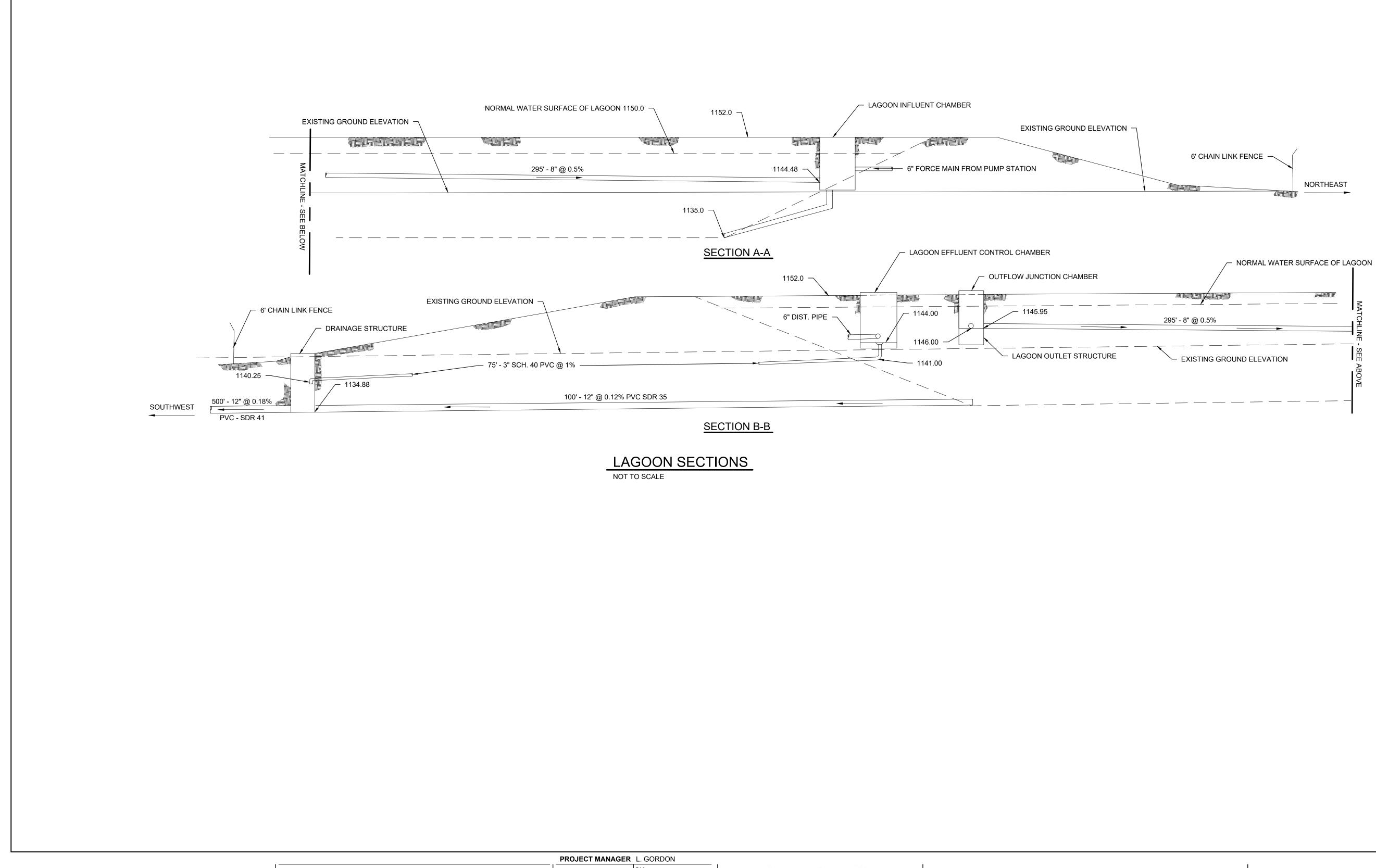
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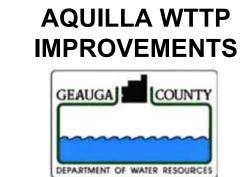
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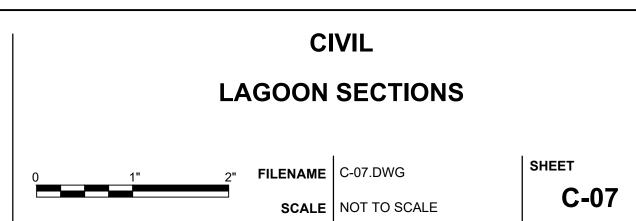
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