

City of Ann Arbor

WTP Lime Residual Removal

Contract No. 2 - Dredging and Hauling

Ann Arbor, Michigan

Issued for Bids & Construction

Project Number 241760

RFP 25-18



fishbeck.com 2001 Commonwealth Blvd.
800.456.3824 Ann Arbor, Michigan

GENERAL

- G001 COVER SHEET
- G101 LEGEND, OVERALL SITE PLAN & NOTES
- G102 OVERALL SITE LAYOUT

CIVIL

- C101 LIME RESIDUAL LAGOON EXISTING SITE PLAN
- C102 WATER TREATMENT PLANT SITE PLAN
- C201 LIME RESIDUAL LAGOON ENLARGED SITE PLANS
- C501 SESC & STANDARD DETAILS

REFERENCE

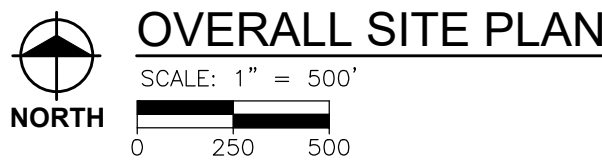
- R1 8 IN 2009 AS BUILT DRAWING SHEET 31
- R2 8 IN 2009 AS BUILT DRAWING SHEET 32

GRAPHIC SYMBOLS

ELEVATION, SECTION, AND
DETAIL DESIGNATION



PLOT INFO: Z:\2024\241760\CAD\CD\CONTRACT 2 - DREDGE\G101_241760.DWG LAYOUT: G101 DATE: 3/18/2025 TIME: 8:51:25 PM USER: JREYES



SITE SYMBOL LEGEND

TOPOGRAPHY — PLAN		
	SHRUBS	PROPOSED FENCE
	CONIFEROUS TREE	GRAVEL SURFACE
	DECIDUOUS TREE	PAVED SURFACE
	HEDGE EDGE OF WOODS	EXISTING CURB & GUTTER
	MARSH (SWAMP)	PROPOSED CURB & GUTTER
	EXISTING DITCH	CONCRETE MONUMENT
	PROPOSED DITCH	PROPERTY IRON
	EDGE OF WATER	SET PROPERTY IRON
	LIGHT	LOT LINE (AS PLATTED)
	GUY ANCHOR	PROPERTY HOOK
	UTILITY POLE	TITLE LINE/PROPERTY LINE
	SIGN	ROW LINE
	GUARD RAIL	SECTION LINE
	RAILROAD TRACKS SCALE: 1" = 60' OR LESS	BENCH MARK
	RAILROAD TRACKS SCALE: 1" = 100' OR MORE	CENTER OF SECTION
	EXISTING FENCE	QUARTER CORNER
	SILT FENCE	

EXISTING UTILITIES	
	8" SAN SANITARY SEWER & MANHOLE
	12" STM STORM SEWER & MANHOLE
	CATCH BASIN CURB TYPE
	CATCH BASIN LAWN TYPE
	VALVE
	HYDRANT
	PLUG
	6" WTR WATER MAIN
	4" FM FORCE MAIN
	2" GAS GAS MAIN
	UNDERGROUND ELECTRIC
	OP FIBER OPTICS
	TEL UNDERGROUND TELEPHONE
	2" OIL OIL TRANSMISSION LINE
	6" STEAM UNDERGROUND STEAM
	2" SPRK UNDERGROUND SPRINKLER
	CATV CABLE TELEVISION
	TELEPHONE PEDESTAL
	PIPE-ONLY CULVERT
	FLARED END SECTION CULVERT
	HEADWALL CULVERT

PROPOSED UTILITIES	
	8" SAN SANITARY SEWER & MANHOLE
	WYE & LEAD
	RISER & LEAD
	STANDARD SEWER CLEANOUT
	MAX. ELEVATION OF LOT LEAD AT PROPERTY LINE
	12" STM STORM SEWER & MANHOLE
	CATCH BASIN
	UNDERDRAIN
	8" WTR WATER MAIN
	VALVE & BOX
	VALVE & CHAMBER
	METER
	PLUG
	STANDARD FIRE HYDRANT ASSEMBLY
	CURB STOP & BOX
	6" FORCE MAIN (FM) FORCE MAIN
	AIR RELEASE STRUCTURE
	12" CSP PIPE-ONLY CULVERT
	FLARED END SECTION CULVERT
	12" CSP HEADWALL CULVERT

MISCELLANEOUS	
	EASEMENT CENTERLINE
	EASEMENT LINE
	SURVEY LINE STATIONING
	TRAVERSE POINT
	SOIL BORING LOCATION
	PROPOSED PAVEMENT/GUTTER ELEVATION
	PROPOSED PAVEMENT MARKING (PAINTING)
	PROPOSED BARRIER FREE PARKING
	TOP MOUNTED LIGHT FIXTURE
	LIGHT POLE FIXTURE

SOIL EROSION CONTROL	
	SOIL EROSION CONTROL MEASURES
	TEMPORARY MEASURE PERMANENT MEASURE
	SECTION
	SECTION NUMBER SCALE: SCALE OF SECTION
	SHEET WHERE SECTION IS DRAWN
	DETAIL
	DETAIL LETTER SCALE: SCALE OF DETAIL
	SHEET WHERE DETAIL IS DRAWN

GENERAL NOTES

- THREE FULL WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT MISS DIG (1-800-482-7171) FOR LOCATION OF UNDERGROUND UTILITIES LOCATED IN THE VICINITY OF THE WORK. THE CONTRACTOR SHALL MAKE ANY NECESSARY ARRANGEMENTS WITH UTILITY COMPANIES FOR RELOCATION OF EXISTING UTILITIES, IF REQUIRED.
- UNDERGROUND UTILITIES AS SHOWN HEREON WERE TAKEN FROM EXISTING PLANS AND ARE APPROXIMATE LOCATIONS ONLY. UNDERGROUND UTILITY LOCATIONS HAVE NOT BEEN FIELD VERIFIED.
- UNLESS SPECIFICALLY NOTED FOR REMOVAL ON THE CONSTRUCTION PLANS, ALL SIDEWALK, DRIVES, CULVERTS, GUARDRAILS AND ABOVE GROUND UTILITIES DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED, INCIDENTAL TO THE COST OF CONSTRUCTION, AT NO EXPENSE TO THE OWNER.
- EXISTING WATER MAINS, STORM SEWERS, SANITARY SEWERS, GAS MAINS AND UNDERGROUND TELEPHONE, ELECTRIC AND CABLE TELEVISION CONDUITS AND/OR LINES ARE SHOWN ONLY IN THE PLAN VIEW OF THE CONSTRUCTION DRAWINGS. THE EXACT DEPTH OF THESE UTILITIES IS NOT KNOWN AND THEREFORE, NO ATTEMPT HAS BEEN MADE TO SHOW SUCH UTILITIES IN THE PROFILE OF THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THESE UTILITIES WHICH ARE NOT WITHIN THE SPACE OCCUPIED BY COMPLETED PIPES OR STRUCTURES THAT ARE A PART OF THIS CONTRACT. DURING CONSTRUCTION, IF DAMAGED OR DESTROYED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS TO REPAIR OR REPLACE THEM AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN A MANNER ACCEPTABLE TO THE ENGINEER DURING THE PROPOSED CONSTRUCTION. ANY UTILITY, WHICH IS TO REMAIN IN SERVICE, THAT IS DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT POINTS OF POSSIBLE CONFLICT SO THAT THESE CONFLICTS CAN BE RESOLVED.
- PROTECT TREES IN ACCORDANCE WITH ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, DIVISION I - GENERAL SPECIFICATIONS "PROTECTION OF TREES" AND STANDARD DETAIL SD-M-1.
- ACCESS TO THE FORCE MAIN AIR RELEASE VALVE LOCATED WITHIN THE SCHOOL PARKING AREA SHALL ONLY BE ACCESSED WITH ADVANCE APPROVAL. REQUESTS SHALL BE MADE A MINIMUM OF 3 DAYS IN ADVANCE. ALL OTHER CONTRACTOR ACCESS TO THE ANN ARBOR PUBLIC SCHOOL PROPERTY IS PROHIBITED.

SESC NOTES

- CONTRACT 1 TEMPORARY SESC CONTROLS ARE TO BE LEFT IN PLACE FOR THIS CONTRACT. CONTRACTOR IS RESPONSIBLE FOR SUPPLEMENTING EXISTING SESC MEASURES TO ACCOMMODATE THEIR SITE LAYOUT AND CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL INSTALL SILT FENCING ALONG THE DOWN SLOPE SIDE OF ALL EXCAVATIONS.
- CONTRACTOR RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES DURING CONSTRUCTION. CONTRACTOR SHALL REMOVE ANY TEMPORARY SESC MEASURES AFTER PROJECT COMPLETION. CONTRACTOR RESPONSIBLE FOR OBTAINING, EXERCISING AND PERFORMING ALL WORK IN ACCORDANCE WITH THE CONDITIONS PROVIDED BY THE ISSUER OF THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT.
- ALL TEMPORARY SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND VERIFIED BY ENGINEER PRIOR TO EARTH DISTURBANCE ACTIVITY AND CHECKED DAILY FOR EFFECTIVENESS AND REPAIRED AS NEEDED.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL PUBLIC ROADWAYS OF LIME RESIDUAL AND OTHER DEBRIS FROM THE TRUCKING OPERATIONS DAILY. FURNISH A STREET SWEEPER THAT CAN ADEQUATELY CLEAN ALL SPILLED OR TRACKED LIME RESIDUE. THE CITY WILL FURNISH A LINED DUMPSTER AT THE WTP FOR THE STREET SWEEPER DEBRIS. THE CITY WILL HAVE THE DUMPSTER EMPTIED AS NEEDED FOR THE DURATION OF THE PROJECT.

TRAFFIC NOTES

- CONTRACTOR RESPONSIBLE FOR ANY TRAFFIC CONTROL REQUIRED TO COMPLETE THE WORK IN A SAFE AND EFFICIENT MANNER. WORK INCLUDES IDENTIFYING, APPLYING FOR AND OBTAINING ROW PERMITS AND APPROVAL FOR ALL TEMPORARY LANE CLOSURES OR PARKING SPACE RESTRICTIONS THROUGH THE CITY OF ANN ARBOR.
- CONSTRUCTION TRAFFIC TO THE WATER TREATMENT PLANT IS EXPECTED TO UTILIZE MILLER AVE TO NEWPORT RD TO SUNSET RD. CONTRACTOR MUST SUBMIT FOR APPROVAL OF ANY ALTERNATIVE ACCESS ROUTES.
- CONTRACTOR TO AVOID TRUCKING THROUGH NEWPORT AND SUNSET INTERSECTION BETWEEN 7:45 AM AND 9:00 AM BETWEEN 2:45 PM AND 4:00 PM FOR ANN ARBOR PUBLIC SCHOOL PICK-UP/DROP-OFF. TIMES MAY VARY ON HALF-DAYS AND HOLIDAYS.
- CONTRACTOR TO FURNISH AND INSTALL THREE EACH - "TRUCKS ENTERING ROADWAY" TRAFFIC SIGNS. SIGNS TO BE FIELD LOCATED BY ENGINEER AND REMOVED UPON COMPLETION OF TRUCKING OPERATION.

SITE PLAN ABBREVIATIONS

ABBREV.	MEANING	ABBREV.	MEANING
ABAN.	ABANDON	EGLE	MICHIGAN DEPARTMENT OF NATURAL RESOURCES
ADJ.	ADJACENT	MDOT	MICHIGAN DEPARTMENT OF TRANSPORTATION
AGG.	AGGREGATE	MDPH	MICHIGAN DEPARTMENT OF PUBLIC HEALTH
ALT.	ALTERNATE	MFG	MANUFACTURER
APPD.	APPROVED	MGR	MILLION GALLONS PER DAY
APPROX.	APPROXIMATE	MH.	MANHOLE
B/B	BACK TO BACK	MIN.	MINIMUM
BIT.	BITUMINOUS	MISC.	MISCELLANEOUS
BLDG.	BUILDING	MJ	MECHANICAL JOINT
BLVD.	BOULEVARD	MON.	MONUMENT
BM	BENCH MARK	NA	NOT APPLICABLE
BNDY.	BOUNDARY	NC	NOT IN CONTRACT
BOT.	BOTTOM	NRC	NON-REINFORCED CONCRETE PIPE
BSMT.	BASEMENT	NTS	NOT TO SCALE
C & G	CURB AND GUTTER	OC	ON CENTER
C/C	CENTER TO CENTER	OD	OUTSIDE DIAMETER
CATV	CABLE TELEVISION	OE	OVERHEAD ELECTRIC
CB	CATCH BASIN	OP	FIBER OPTICS
CFT	CUBIC FEET	ORIG.	ORIGINAL
CFS	CUBIC FEET PER SECOND	OT	OVERHEAD TELEPHONE
CL	CENTERLINE	PC	POINT OF CURVE
CMP	CORRUGATED METAL PIPE	PCC	POINT OF COMPOUND CURVATURE
CO	CLEAN OUT	PE	POLYETHYLENE
CONC.	CONCRETE	PE PERF.	POLYETHYLENE PIPE PERFORATED
CONST.	CONSTRUCTION	PERF.	PERFORATED
COORD.	COORDINATE	PI	POINT OF INTERSECTION
CP	COPPER PIPE	PIV	POST INDICATOR VALVE
CSP	CORRUGATED STEEL PIPE	PL	PROPERTY LINE
CSPA	CORRUGATED STEEL PIPE ARCH	POB	POINT OF BEGINNING
CULV.	CULVERT	POE	POINT OF ENDING
CY	CUBIC YARD	PRC	POINT OF REVERSE CURVE
DEG (°)	DEGREE	PROP.	PROPOSED
DEMO.	DEMOLISH	PSF	POUNDS PER SQUARE FOOT
DIP	DUCTILE IRON	PSI	POUNDS PER SQUARE INCH
DIA.	DIAMETER	PT	POINT OF TANGENCY
DIM.	DIMENSION	PVC	POLYVINYL CHLORIDE
DIST.	DISTANCE	PVC	POINT OF VERTICAL CURVE
EL.	ELEVATION	PVI	POINT OF VERTICAL INTERSECTION
ENGR.	ENGINEER	PVMT.	PAVEMENT
EOM	EDGE OF METAL	PVT	POINT OF VERTICAL TANGENCY
EQUIP.	EQUIPMENT	QTY.	QUANTITY
ESMT.	EASEMENT	R.	RADIUS
EXIST. EX.	EXISTING EXTERIOR	RCP	REINFORCED CONCRETE PIPE
EXT.	EXTERIOR	RED.	REDUCER
F/F	FACE TO FACE	REF.	REFERENCE
FDN.	FOUNDATION	REQD.	REQUIRED
FIG.	FIGURE	REV.	REVISION
FF	FINISH FLOOR	RJ	RESTRAINED JOINT
FIN. GR.	FINISH GRADE	ROW	RIGHT OF WAY
FTG.	FOOTING	SAN	SANITARY SEWER
GEN.	GENERATOR	SF	SQUARE FOOT
GND.	GROUND	SPEC.	SPECIFICATION
GPD	GALLONS PER DAY	SS	SIDE SLOPE
GPM	GALLONS PER MINUTE	STA.	STATION
HDPE	HIGH DENSITY POLYETHYLENE	STD.	STANDARD
HWL.	HEADWALL	STL.	STEEL
H.	HEIGHT	STM	STORM SEWER
HORIZ.	HORIZONTAL	SYD	SQUARE YARD
HP	HIGH POINT	TC	TOP OF CURB
HWL	HIGH WATER LEVEL	TAN.	TANGENT
HWY.	HIGHWAY	TEMP.	TEMPORARY
HYD.	HYDRANT	TOC	TOP OF CASTING
ID	INSIDE DIAMETER	T/W	TOP OF WALL
INV	INVERT ELEVATION	TRPT	TRAVERSE POINT
INCL.	INCLUDE	TYP.	TYPICAL
LA	LANDING AREA (SIDEWALK)	UD	UNDER DRAIN
LAT.	LATERAL	UTIL.	UTILITY
LF	LINEAL FEET	VB	VALVE BOX
L	LENGTH	VCP	VITRIFIED CLAY PIPE
LP	LOW POINT	VERT.	VERTICAL
LS	LUMP SUM	W/	WITH
LWL	LOW WATER LEVEL	W/O	WITHOUT
M/L	MORE OR LESS	WL	WATER LEVEL
MAINT.	MAINTENANCE	WTR	WATER MAIN

City of Ann Arbor

Ann Arbor, Michigan

WTP Lime Residual Removal

Contract 2 - Dredging and Hauling

REVISIONS

3/25/2025 BIDS & CONSTRUCTION

Drawn By jreyes
Designer jsiek
Reviewer krostowski
Manager jsiek

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241760

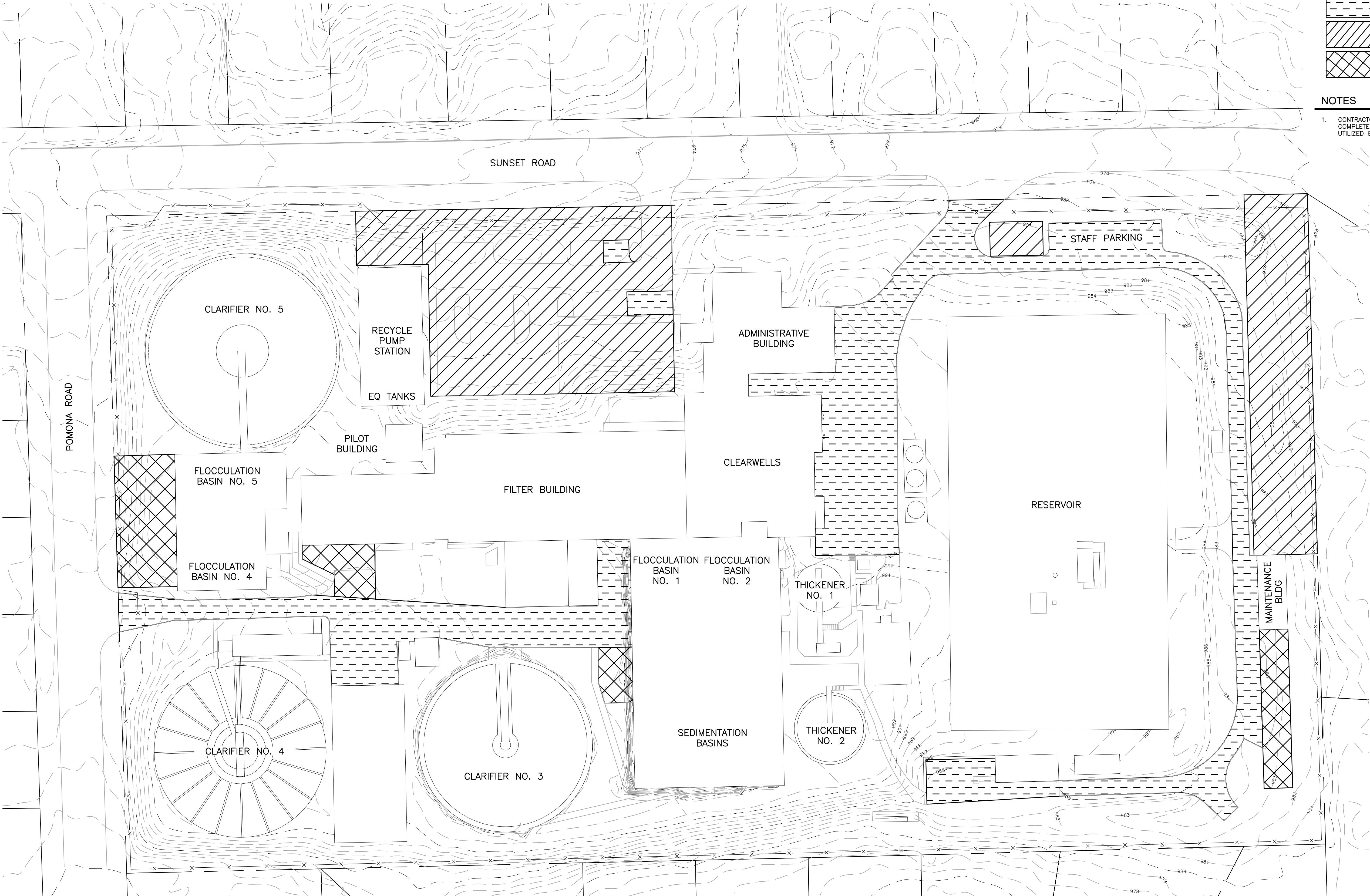
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G101

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fishbeck
Engineers | Architects | Scientists | Constructors

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SYMBOL LEGEND

	AREAS NOT TO BE BLOCKED
	AREAS ALLOWED FOR EQUIPMENT STAGING
	AREAS OCCUPIED BY OTHER CONTRACTORS

NOTES

- CONTRACTOR TO CONFIRM THE SPACES THEY WILL NEED TO COMPLETE THE PROJECT SO THAT UNUSED SPACE MAY BE UTILIZED BY WTP STAFF.



OVERALL SITE LAYOUT

SCALE: 1" = 40'
0 20 40 80

City of Ann Arbor

Ann Arbor, Michigan

WTP Lime Residual Removal

Contract 2 - Dredging and Hauling

REVISIONS

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Drawn By	jreyes
Designer	jsiwek
Reviewer	krostowski
Manager	jsiwek

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G102

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NOTES

- ALL LOCATIONS AND DIMENSIONS OF EXISTING FEATURES SHOWN ON THE DRAWINGS ARE APPROXIMATE. FIELD VERIFY SITE CONDITIONS AND EXISTING FEATURES PRIOR TO COMMENCING WORK.
- CONTRACTOR TO COORDINATE WITH OWNER AND ENGINEER ANY TREES THAT NEED TO BE REMOVED.
- THE LAGOON WATER SURFACE ELEVATION WAS RECORDED ON JUNE 2022 AS 951.55. ALL SPOT ELEVATIONS IN THE LAGOON REFLECT THE TOP OF LIME / SEDIMENT AS OF JUNE 2022.
- CONTRACTOR SHALL FOCUS REMOVAL EFFORTS IN THE AREA SHOWN. THE ENGINEER WILL PERFORM A BATHYMETRIC SURVEY BEFORE THE START OF CONSTRUCTION AND REISSUE THIS SHEET.
- CONTRACTOR TO UTILIZE EXISTING FORCE MAIN CONNECTION CONSTRUCTED IN CONTRACT NO. 1.
- CONTRACTOR RESPONSIBLE FOR ALL SITE SECURITY AT THE LAGOON SITE DURING CONSTRUCTION. THE ACCESS GATE SHOULD REMAIN LOCKED AT ALL TIMES WHEN NOT BEING ACTIVELY UTILIZED. CONTRACTOR TO COORDINATE WITH CITY AND "DAISY CHAIN" THEIR LOCK WITH CITY'S LOCK FOR ACCESS DURING CONSTRUCTION.
- CONTRACTOR ACCESS TO WATER FROM HYDRANT LOCATED IN FRONT OF 1800 COOLEY AVE. APPROX. 150 FEET SOUTH. CONNECTION AND USAGE MUST BE COORDINATED WITH THE CITY DEPARTMENT OF PUBLIC WORKS.
- CONTRACTOR RESPONSIBLE FOR SUPPLYING TEMPORARY POWER ON SITE TO MEET THE NEEDS OF THE PROPOSED OPERATION. GENERATORS SHALL BE EQUIPPED WITH SOUND ATTENUATORS PER THE CITY ORDINANCE AND BE LOCATED TO MINIMIZE THE IMPACT ON SURROUNDING RESIDENTS.
- CONTRACTOR SHALL RESTORE THE SITE ONCE ALL RESIDUAL REMOVAL WORK IS COMPLETE.
- MULTIPLE MIGRATORY BIRD SPECIES HAVE BEEN OBSERVED NESTING ON THE LIME LAGOON, INCLUDING TRUMPETER SWANS. CONTRACTOR TO NOTIFY CITY TO COORDINATE POTENTIAL REMOVAL EFFORTS IN ACCORDANCE WITH FEDERAL MIGRATORY BIRD PERMIT. MINOR DELAYS TO WORK MAY OCCUR DURING REMOVAL PROCESS.
- THE EXISTING STORM SEWER WHICH OUTLETS TO THE BASIN WILL BE USED TO RETURN DEWATERING EQUIPMENT DISCHARGE (FILTRATE) FLOWS TO THE LAGOON. CONTRACTOR SHALL INSTALL MECHANICAL PLUG ON THE EXISTING OUTLET STRUCTURE DISCHARGE PIPING SO THAT FILTRATE CAN FLOW BACK INTO THE LIME LAGOON THROUGH THE 21 INCH OVERFLOW PIPE.
- NO STAGING OF CONSTRUCTION VEHICLES OR EQUIPMENT ON CITY STREETS.
- CONTRACTOR TO INSTALL TURBIDITY CURTAINS AND SILT FENCE IN ADDITION TO MAINTAINING PREVIOUSLY INSTALLED BMPS INSTALLED UNDER CONTRACT NO.1 AS REQUIRED FOR DREDGING OPERATIONS.
- NO OVERFLOWS FROM THE LAGOON ARE PERMITTED WHILE DREDGING OPERATIONS ARE UNDERWAY. SEE OVERFLOW STRUCTURE DETAIL ON SHEET C501.
- MAINTAIN ACCESS FOR CITY STAFF TO THE SAMPLING MANHOLE THROUGH THE DURATION OF THE PROJECT.
- THE CITY MAY NEED TO DISCHARGE TO THE LAGOON PERIODICALLY DURING CONSTRUCTION. CITY STAFF WILL NOTIFY THE CONTRACTOR IN ADVANCE TO AVOID CONFLICT WITH ANY CONSTRUCTION ACTIVITIES.

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Ann Arbor, Michigan

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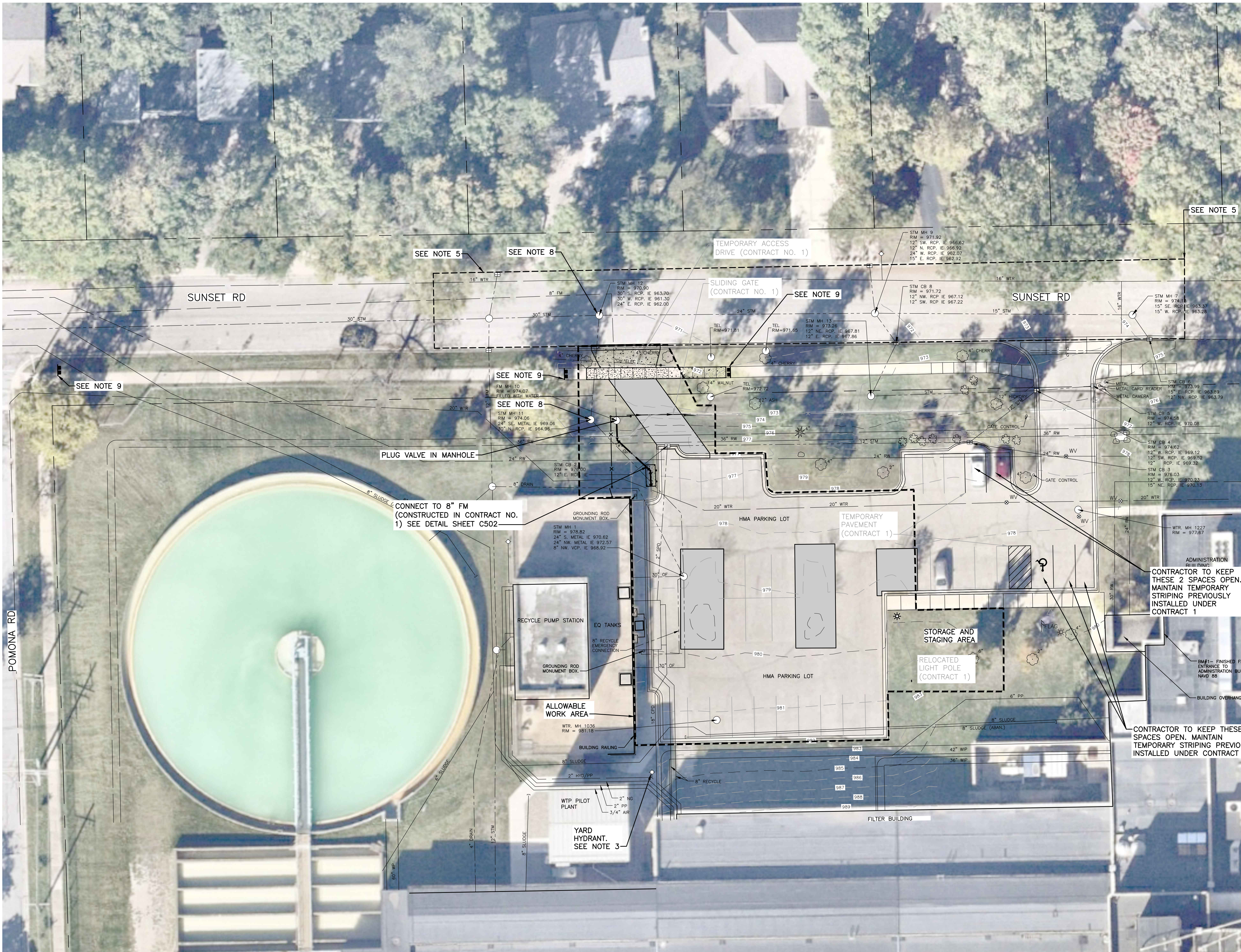
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C101

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- NOTES**
- CONTRACTOR SHALL ARRANGE SITE OPERATIONS TO HAVE TRUCKS ACCESS THE SITE USING THE TEMPORARY GATE CONSTRUCTED AS PART OF CONTRACT NO. 1 AND EXIT THROUGH THE EXISTING WTP ACCESS GATE. CONTRACTOR IS RESPONSIBLE FOR OPERATING THE TEMPORARY GATE AT ALL TIMES AND MUST COORDINATE THE CLOSURE AND LOCKING OF THE GATE DAILY WITH WTP SECURITY PROTOCOLS.
 - SITE MODIFICATIONS WILL BE COMPLETED AS PART OF CONTRACT NO. 1. CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF THEIR EQUIPMENT WITHIN THE AREA ALLOTTED ON THE WTP PROPERTY. CONTRACTOR TO SUBMIT A SITE PLAN FOR REVIEW AND APPROVAL.
 - PLANT WATER SUPPLY AVAILABLE FROM YARD HYDRANT. COORDINATE CONNECTIONS AND USAGE WITH WTP STAFF.
 - THERE IS A 400 AMP SPARE CIRCUIT BREAKER AVAILABLE FOR CONTRACTOR TO USE FOR ONSITE POWER DURING CONSTRUCTION. SEE SECTION 01 50 00 FOR DETAILS. CONTRACTOR RESPONSIBLE FOR SUPPLYING REMAINING TEMPORARY POWER ON SITE TO MEET THE NEEDS OF THE PROPOSED OPERATION. GENERATORS SHALL BE EQUIPPED WITH SOUND ATTENUATORS AND BE LOCATED TO MINIMIZE THE IMPACT ON SURROUNDING RESIDENTS.
 - CONTRACTOR TO IDENTIFY ANY PARKING SPACES ALONG SUNSET RD THAT WILL NEED TO BE TAKEN OUT OF SERVICE IN ORDER TO COMPLETE THE WORK AND COORDINATE WITH THE CITY OF ANN ARBOR TO TEMPORARILY ADJUST PARKING LIMITS AND INCLUDING INSTALLATION OF "NO PARKING" SIGNS.
 - CONTRACTOR RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF ANY SPILLS THAT MAY OCCUR ON SITE AND THREATEN TO LEAVE ANY AREAS OF CONTAMINANT ESTABLISHED AROUND THE OPERATIONS. SEE SESC NOTE 5 ON SHEET G101.
 - CONTRACTOR SHALL PLACE SPREADER PADS AND OTHER DEVICES DOWN BENEATH THE DEWATERING EQUIPMENT IN ORDER TO REDUCE DAMAGE TO EXISTING PAVEMENT. ALL TRUCK BEDS ON PROJECT SHALL BE LINED TO PREVENT ANY LIQUID WASTE FROM SPILLING.
 - THE EXISTING STORM SEWER WILL BE USED TO RETURN DEWATERING EQUIPMENT DISCHARGE (FILTRATE) FLOWS TO THE LAGOON. CONTRACTOR RESPONSIBLE FOR MONITORING FLOWS IN THIS SYSTEM DURING STORM EVENTS TO ENSURE THERE IS NO SURFACE FLOODING. AFTER COMPLETION OF THE WORK, THIS SEWER SHALL BE THOROUGHLY FLUSHED TO REMOVE ALL LIME RESIDUALS FROM THE PIPE. CONTRACTOR RESPONSIBLE FOR ALL CLEANUP OF LIME RESIDUALS FROM THE STORM SEWER, CATCH BASINS, AND STORMWATER BASIN.
 - CONTRACTOR TO PROVIDE ADEQUATE SIGNAGE FOR PEDESTRIAN SAFETY. CONTRACTOR SHALL FOLLOW CITY STANDARDS FOR SIGNAGE AND PLACEMENT. ADDITIONAL SIGNAGE MAY BE NECESSARY AT SUNSET RD AND BROOKS ST. CONTRACTOR SHALL SUBMIT BOTH TRAFFIC CONTROL AND PEDESTRIAN DETOUR PLANS TO THE CITY FOR APPROVAL.
 - UPON COMPLETION OF DREDGING OPERATION, CONTRACTOR TO FLUSH AND "PIG" FORCE MAIN WITH POLY-PIG SWAB TO CLEAN SETTLED LIME TO THE SATISFACTION OF THE OWNER. SEE DETAIL ON SHEET CS01 FOR RECOMMENDED PROCEDURES.
 - CONTRACTOR TO MAINTAIN EXISTING PROJECT SIGN INSTALLED IN CONTRACT 1 DURING CONSTRUCTION AND REMOVE AT PROJECT COMPLETION.

SYMBOL LEGEND

	ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	8" THICK CONCRETE SIDEWALK
	4" THICK CONCRETE SIDEWALK

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SHEET NO.

C102

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EGLE SOIL EROSION AND
SEDIMENTATION CONTROL MEASURES

KEY	DETAIL	CHARACTERISTICS
1		Within a stream or drain parallel to flow when a slack water area is necessary to isolate earth change activities from a lake or channel.
26		Use geotextile and posts or poles. May be constructed or prepackaged. Easy to construct and locate as necessary.



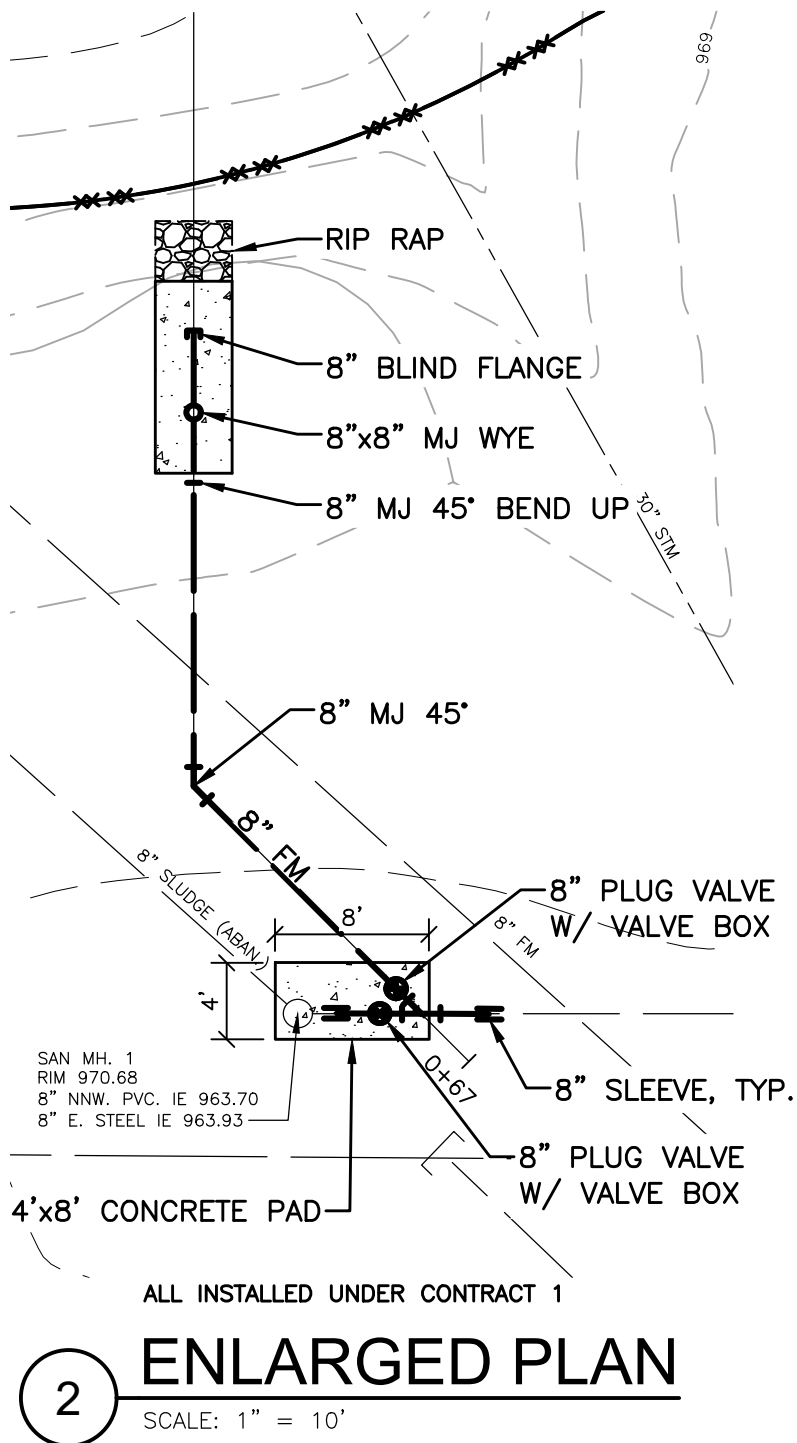
TEMPORARY
MEASURE



PERMANENT
MEASURE



1 ENLARGED PLAN
SCALE: 1" = 40'



2 ENLARGED PLAN
SCALE: 1" = 10'



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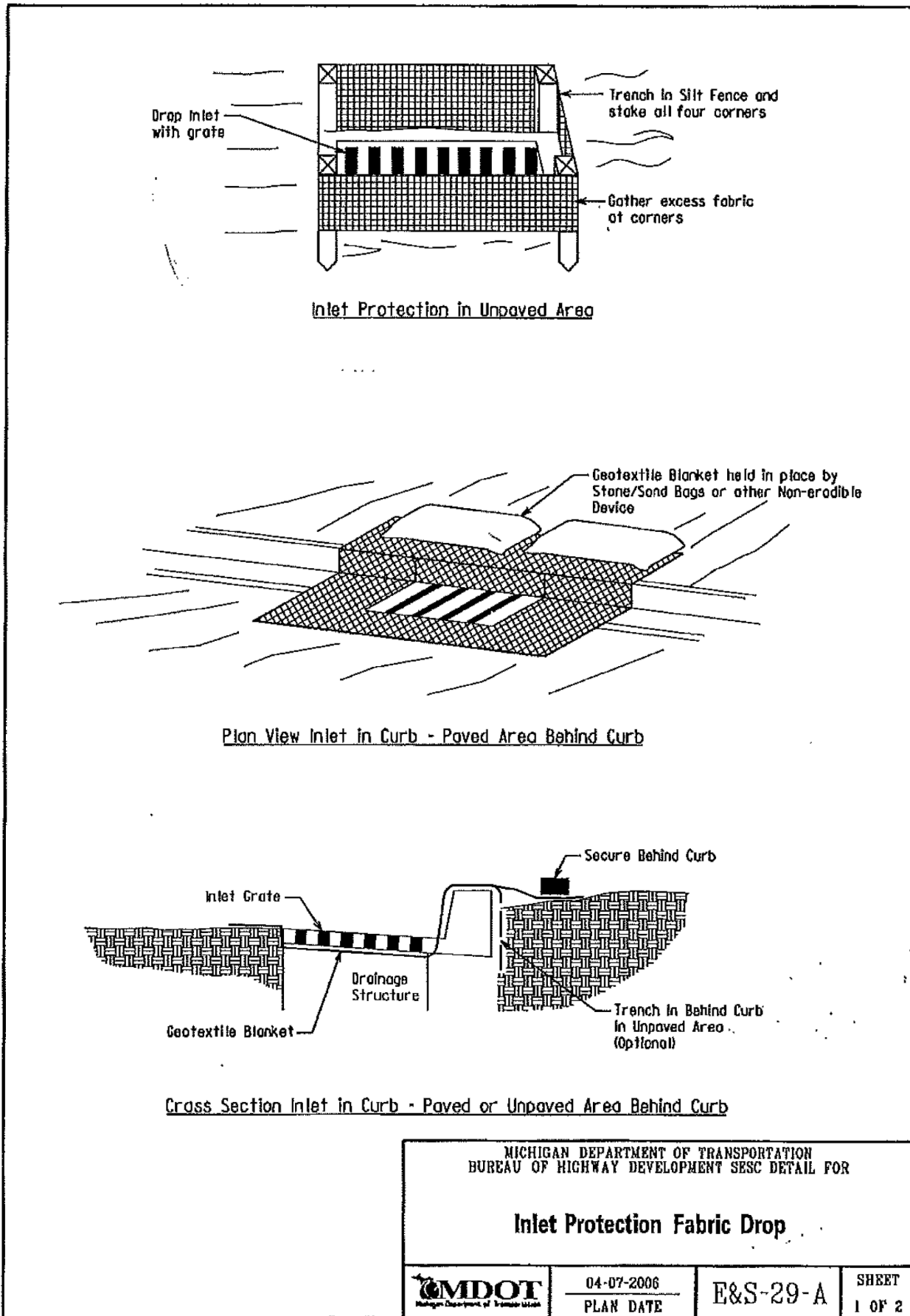
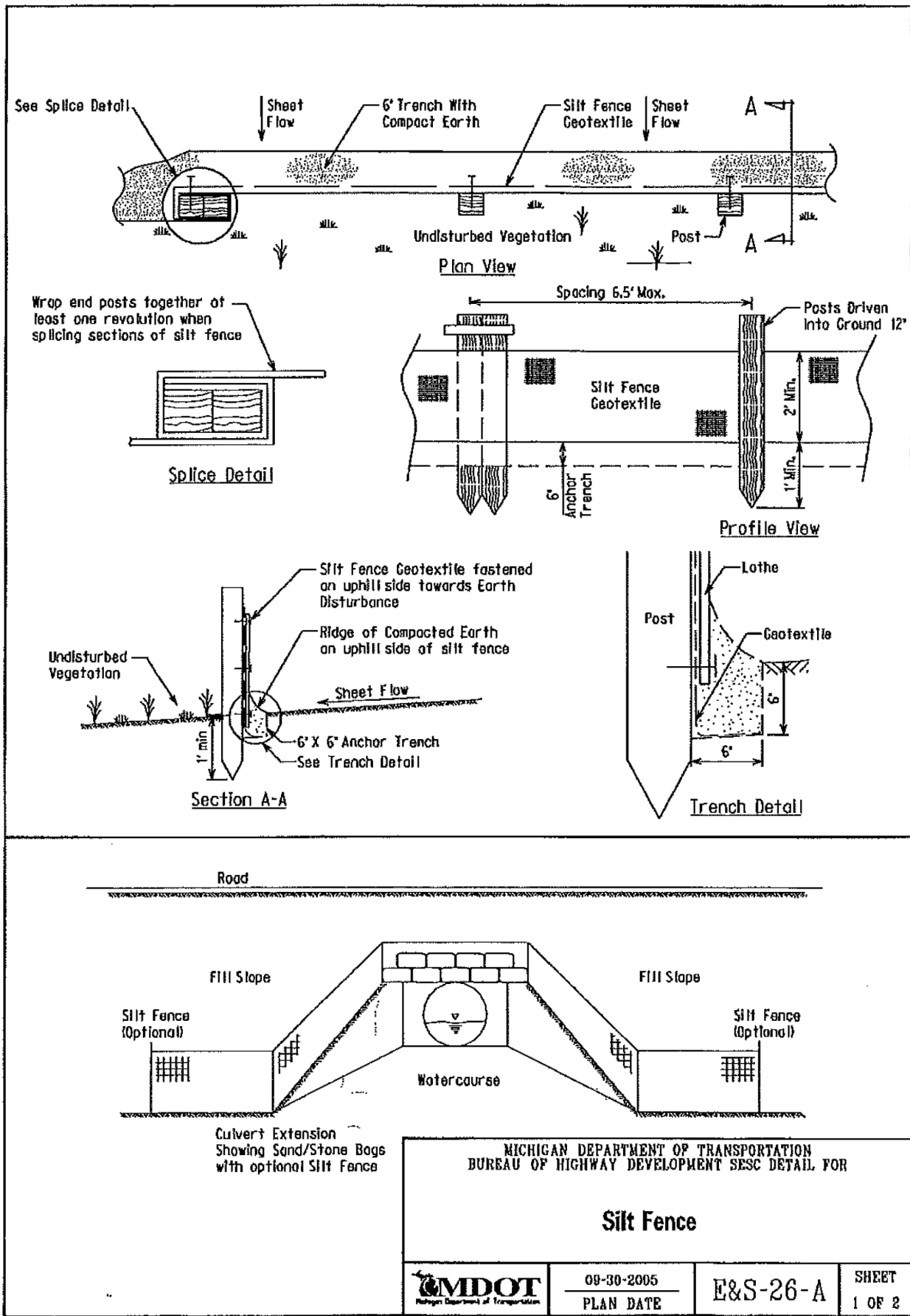
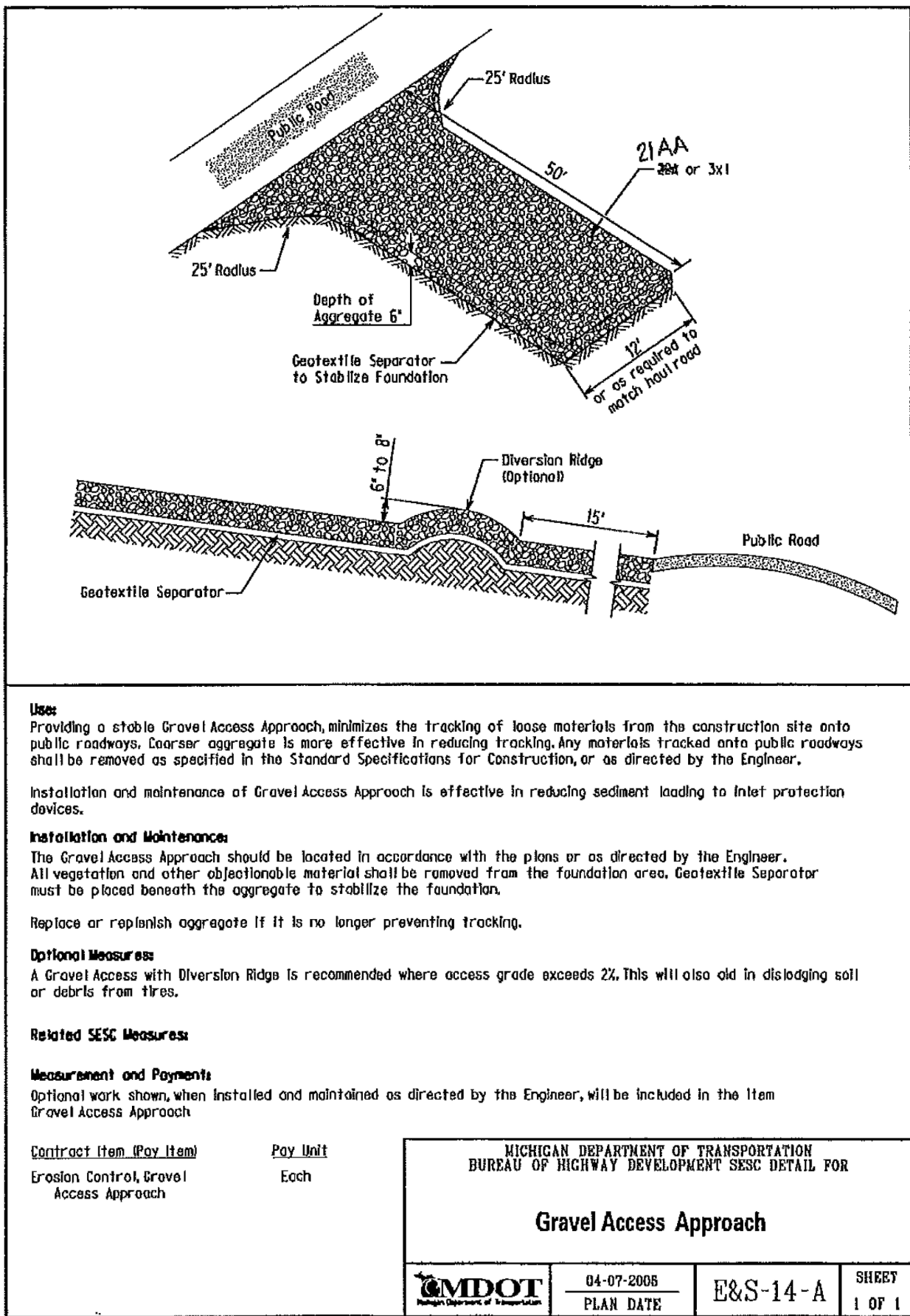
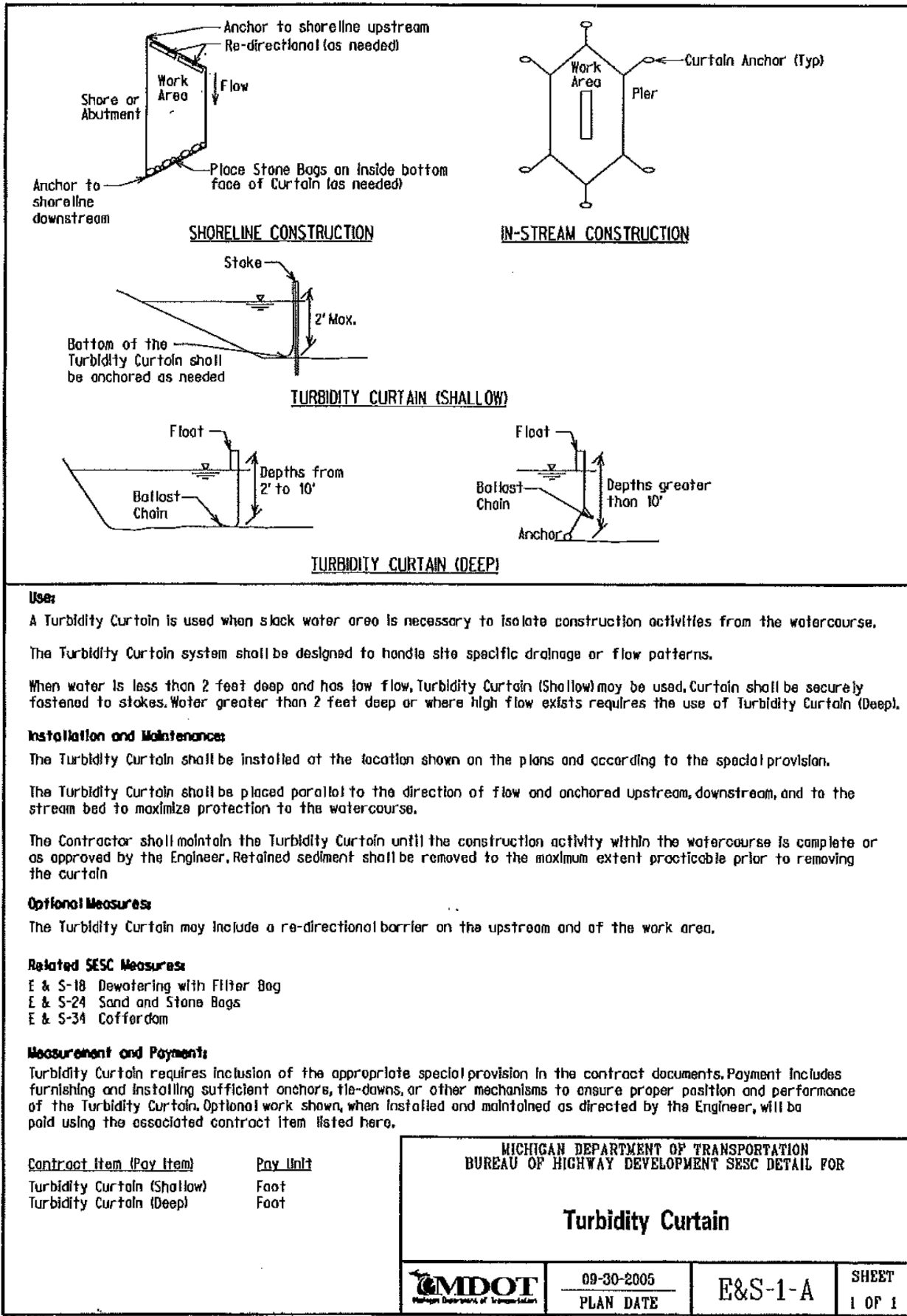
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SHEET NO.

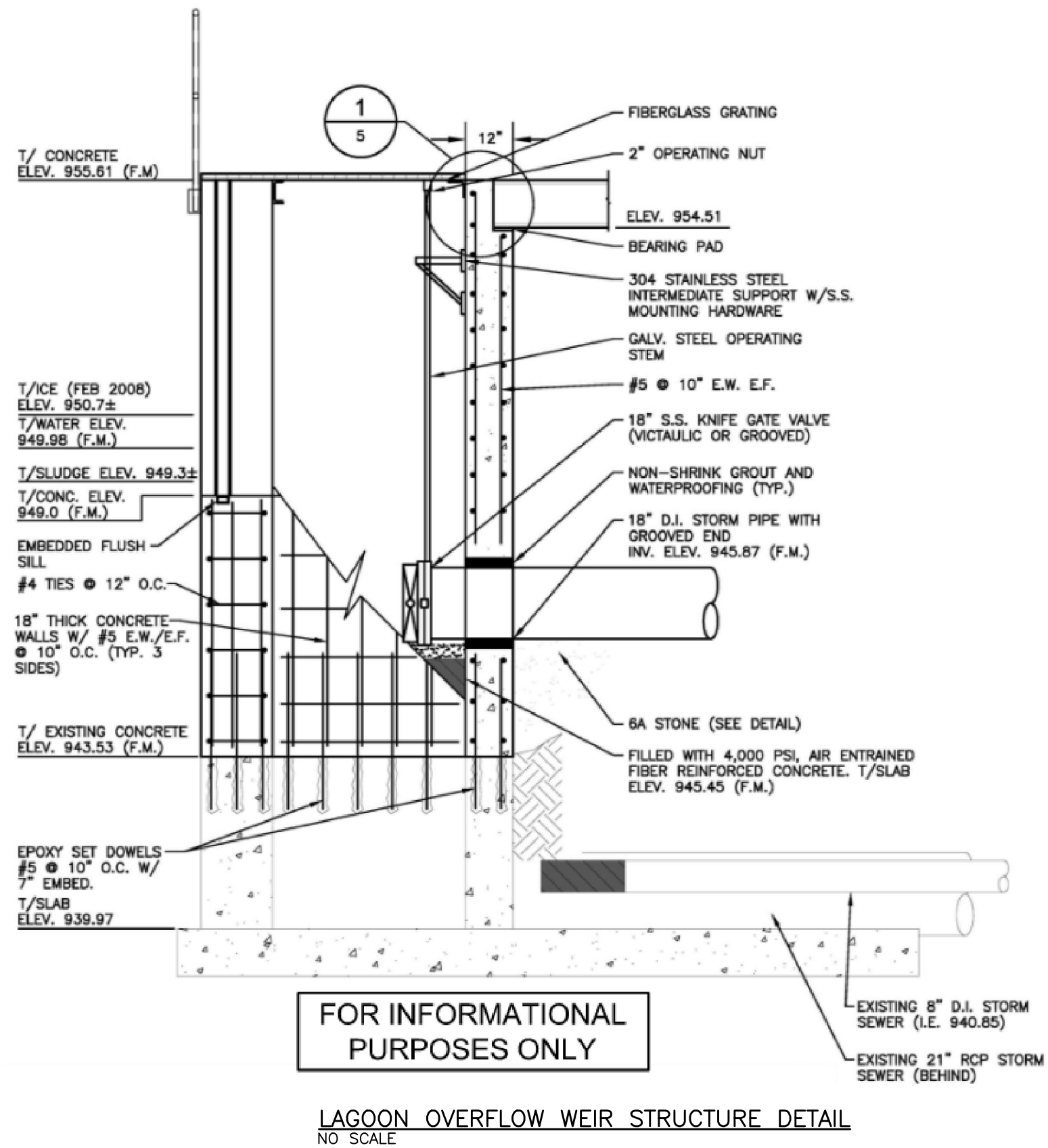
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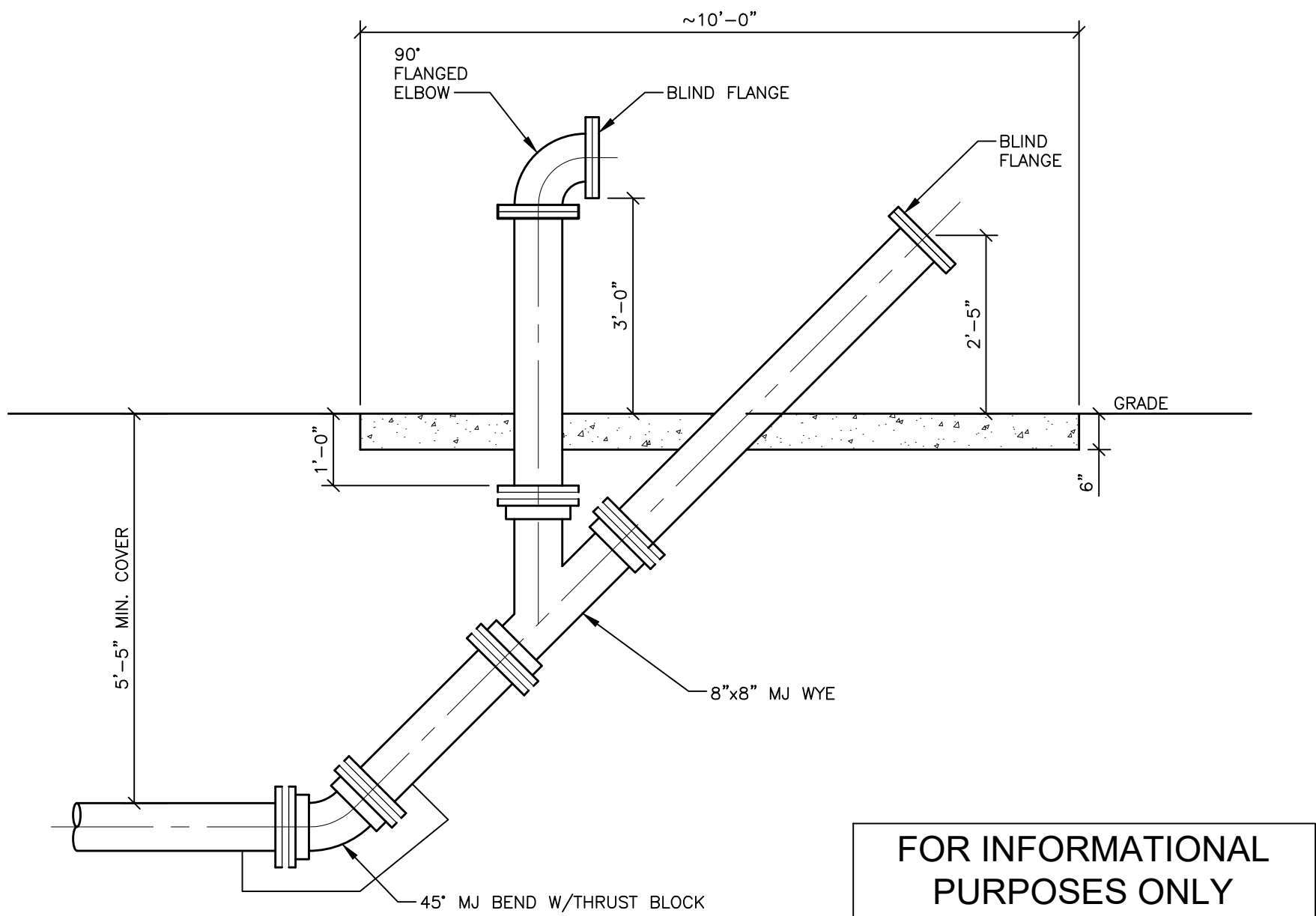
NOTES

- DETAILS ARE PROVIDED FOR PROPOSED AND EXISTING SESC BMP'S LEFT IN PLACE FROM CONTRACT NO. 1. SESC BMP'S LEFT IN PLACE FROM CONTRACT NO. 1 THAT ARE TO BE RE-USED IN CONTRACT NO. 2 SHALL BE MAINTAINED THROUGHOUT THE COURSE OF THE CONTRACT. ALL SESC BMP'S SHALL BE REMOVED BY CONTRACTOR UPON COMPLETION OF CONTRACT 2.
- CONTRACTOR SHALL REMOVE ALL INLET PROTECTIONS LOCATED WITHIN CITY STREETS UPON THE COMPLETION OF THE TRUCKING PORTION OF THE PROJECT.
- CONTRACTOR SHALL ANCHOR TURBIDITY CURTAIN TO PROVIDE PROTECTION ENTIRELY AROUND THE EXISTING OVERFLOW STRUCTURE. CONTRACTOR SHALL CHECK THE SECURITY OF THE INSTALLATION BEFORE AND AFTER ANY STORM EVENTS.



NOTES:

- FIBERGLASS STOP LOGS ARE TYPICALLY INSTALLED TO ELEVATION 952.00 ON THE WEST AND NORTH SIDE OF THE OVERFLOW AND ELEVATION 951.00 ON THE EAST SIDE. TO AVOID OVERFLOWS, CONTRACTOR SHALL MAINTAIN THE WATER SURFACE LEVEL IN THE LAGOON AT LESS THAN 952.00.
- THE 18" KNIFE GATE VALVE SHOULD REMAIN CLOSED DURING DREDGING. COORDINATE THE OPENING OF THE VALVE IF WET WEATHER MAY THREATEN TO INCREASE THE WATER LEVEL IN THE POND ABOVE 952.00.
- TO AVOID ANY CONTAMINATED SPILLS DURING CONSTRUCTION, CONTRACTOR TO WRAP THE OVERFLOW WITH GEOTEXTILE FABRIC BETWEEN ELEVATIONS 948.00 AND 954.00. FABRIC WRAP TO BE A MINIMUM OF TWO LAYERS THICK AND OVERLAP AT ANY SEAMS. CONTRACTOR TO CHECK AND MAINTAIN THE GEOTEXTILE FABRIC WRAP AFTER RAIN EVENTS.



PIGGING NOTES:

- REMOVE CAP AND INSERT POLY-PIG SWAB.
- REPLACE CAP AND APPROPRIATE FITTINGS FOR FLUSHING AND/OR TESTING.
- USING PRESSURE PUMP, INSERT POLY-PIG SWAB INTO FORCE MAIN TO BE SWABBED. WHEN SWAB IS IN MAIN, STOP PUMP, MOMENTARILY, THEN BEGIN FLUSHING MAIN.
- CONTRACTOR TO ADJUST THE ORIENTATION OF THE DISCHARGE BY REALIGNING THE 90 DEGREE BEND TO SUIT THEIR OPERATIONS. CONTRACTOR TO FURNISH ALL FITTINGS TO WORK WITH THEIR PUMPING AND TESTING EQUIPMENT. UPON COMPLETION OF THE WORK, AND ALL FLUSHING OF THE FORCE MAIN IS COMPLETE THE CONTRACTOR SHALL PUMP WATER OUT OF THE STAND PIPES TO A MINIMUM 5 FEET BELOW GRADE AND REINSTALL THE BLIND FLANGES.

City of Ann Arbor

Ann Arbor, Michigan

WTP Lime Residual Removal

Contract 2 - Dredging and Hauling

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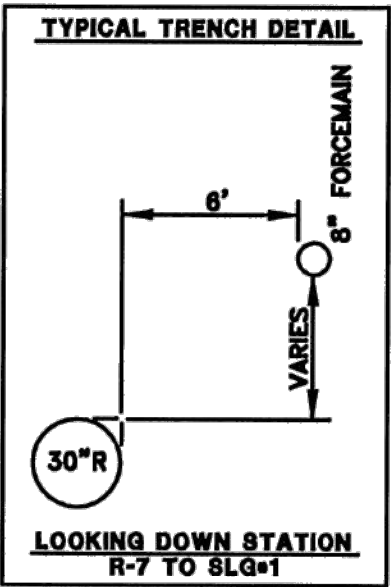
Drawn By jreyes
Designer jsiwiek
Reviewer krostowski
Manager jsiwiek

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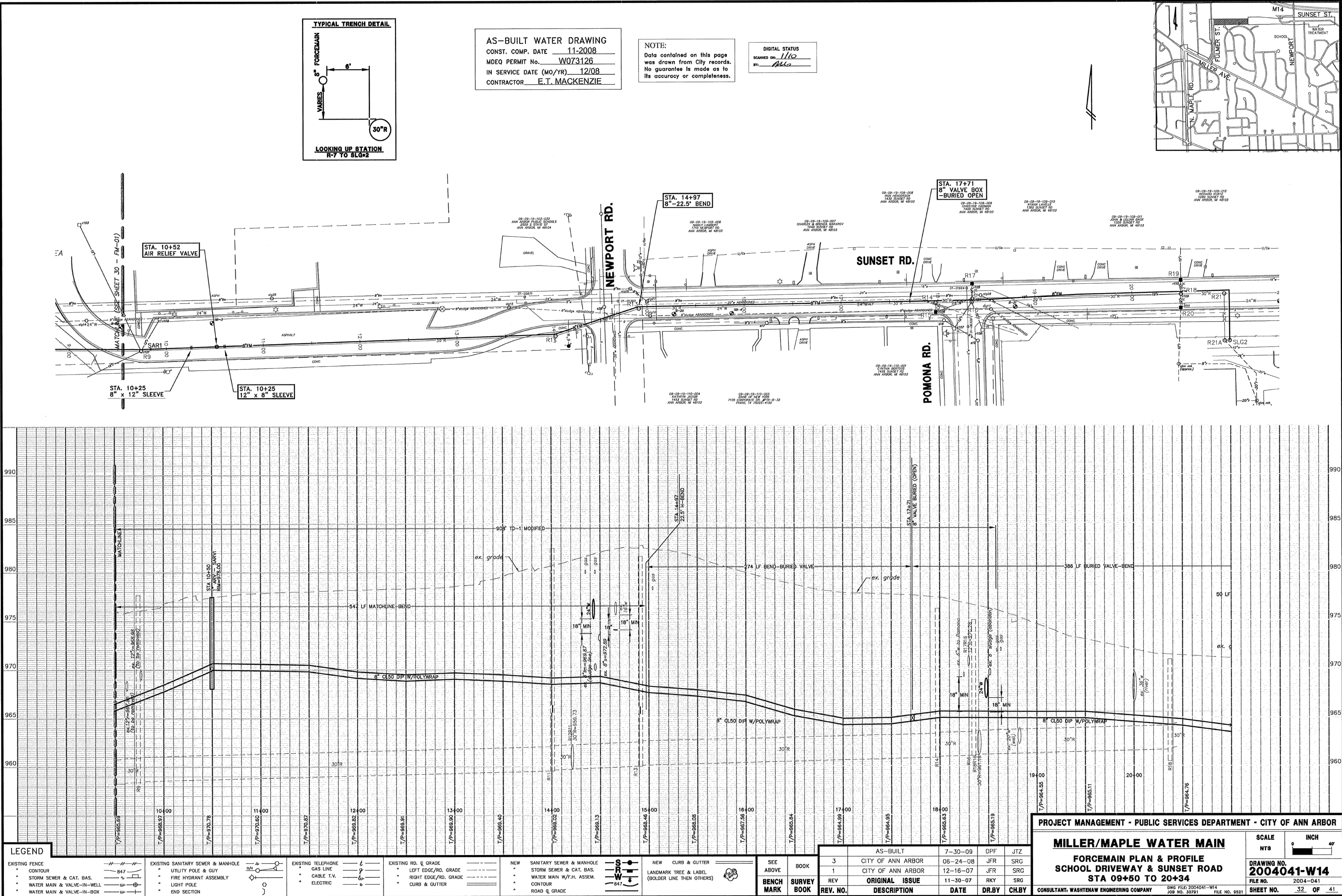
PROJECT NO.
241760

SHEET NO.

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PLOT INFO: 2/2024/241760/CAD/CDD/CONTRACT 2 - DREDGER2_241760.DWG LAYOUT: R2 DATE: 3/19/2025 TIME: 8:55:42 PM USER: JLBROWN



City of Ann Arbor

Ann Arbor, Michigan

WTP Lime Residual Removal

Contract 2 - Dredging and Hauling

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Drawn By jreyes
Designer jsiwk
Reviewer krostowski
Manager jsiwk

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SHEET NO.

R2

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