



WOODLAND CORRECTIONAL CENTER - UTILITY IMPROVEMENT PROGRAM

CONSTRUCTION PLANS FOR MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET

SECTION 30, TOWN 1 NORTH, RANGE 6 EAST
WHITMORE LAKE, LIVINGSTON COUNTY, MICHIGAN

FILE NO.: 472/23129.SDW



WHITMORE LAKE
LIVINGSTON COUNTY, MICHIGAN

VICINITY MAP

N.T.S.

PROJECT PERMITS

DLARA PERMIT
A PERMIT FROM THE DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS IS REQUIRED FOR THE ELECTRICAL WORK ASSOCIATED WITH LIFT STATION. THE CONTRACTOR SHALL OBTAIN THE PERMIT, PAY ANY FEES AND COORDINATE NEEDED INSPECTIONS.

SOIL EROSION CONTROL PERMIT
A PERMIT FROM THE DTMB IS REQUIRED FOR EARTH DISTURBANCE AND ALL SOIL EROSION CONTROL MEASURES. THE CONTRACTOR SHALL COMPLETE THE PROCESS OUTLINED IN THE SPECIFICATIONS, OBTAIN THE PERMIT AND ABIDE BY ALL REQUIREMENTS.

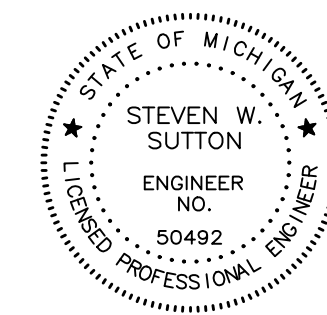
MDOT RIGHT OF WAY PERMIT
A PERMIT FROM THE MICHIGAN DEPARTMENT OF TRANSPORTATION IS REQUIRED FOR ALL WORK PROPOSED WITHIN THE M-36 ROW. THE CONTRACTOR SHALL OBTAIN THE PERMIT, PAY ANY FEES, PROVIDE ADDITIONAL BONDING AND COORDINATE NEEDED INSPECTIONS.

LIVINGSTON COUNTY ROAD COMMISSION RIGHT OF WAY PERMIT
A PERMIT FROM THE LIVINGSTON COUNTY ROAD COMMISSION IS REQUIRED FOR ALL WORK PROPOSED WITHIN THE LEMEN ROAD ROW. THE CONTRACTOR SHALL OBTAIN THE PERMIT, PAY ANY FEES, PROVIDE ADDITIONAL BONDING AND COORDINATE NEEDED INSPECTIONS.



LOCATION MAP

N.T.S.



Department of Corrections

Physical Plant Division
Contact: Trever LeBarre - Physical Plant Manager
Phone: (517) 643-6518
E-mail: lebarret@michigan.gov

Electrical Engineer

Matrix Consulting Engineer's, Inc.
1601 E. Grand River
Lansing, MI 48908
Contact: Mason Cordes
Phone: (517) 487-2511 (Office)
E-mail: mcordes@matrixceinc.com

Civil Engineer

NF Engineers
46777 Woodward Avenue
Pontiac, MI 48342
Contact: Steven Sutton, P.E.
Phone: (248) 635-6571
Fax: (248) 332-8257
E-mail: swsutton@nfe-engr.com

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E2	ELECTRICAL SITE PLAN

NFE PROJECT NO. K64806
46777 WOODWARD AVENUE
PONTIAC, MI 48342-5032
TEL. (248) 332-7931 FAX. (248) 332-8257

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NF ENGINEERS

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LACH, RA, NCARB, DIRECTOR

DATE	REVIEW
03-17-2025	BIT Documents
12-05-2024	Phase 500 90%
08-15-2024	Phase 500 50%
12-12-2023	Phase 400 50%

PROJECT DESCRIPTION
**WOODLAND CORRECTIONAL CENTER
- UTILITY IMPROVEMENT PROGRAM**
WHITMORE LAKE, LIVINGSTON COUNTY, MICHIGAN

TITLE SHEET

PROJECT NO.	472/23129.SDW
INDEX	
PCA	00-0000
DRAWN BY	MAW
DESIGNED BY	MAW
JC/ENG BY	SVS

T

CAUTION NOTE:
IT IS NOT KNOWN WHETHER CONDUITS SHOWN OR NOT SHOWN ON SURVEY CONTAIN HIGH VOLTAGE, LOW VOLTAGE OR FIBER OPTIC LINES AND WILL NEED FIELD VERIFICATION. CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING AND INSTALLING PROPOSED UTILITIES.

EXISTING UTILITY CONDUIT NOTE:
ALL EXISTING LIGHT, POWER, AND COMMUNICATION CONDUIT LOCATIONS SHOWN SHALL BE FIELD VERIFIED FOR EXACT SIZE AND LOCATION. ADDITIONAL CONDUITS NOT SHOWN ON SURVEY MAY EXIST AND WILL NEED FIELD VERIFICATION PRIOR TO INSTALLATION OF PROPOSED WORK. CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING FOR PROPOSED WORK AS ADDITIONAL CONDUITS NOT SHOWN ON SURVEY MAY EXIST.

HYDRO EXCAVATION:
THE CONTRACTOR SHALL INCLUDE COSTS FOR HYDRO EXCAVATION OF ALL UTILITY CROSSINGS REQUIRED, PRIOR TO COMMENCING WITH THE INSTALLATION. A SECONDARY ALLOWANCE HAS BEEN PROVIDED FOR THE POTENTIAL NEED OF ADDED HYDRO EXCAVATION, IF NEW UTILITIES ARE DISCOVERED DURING THE PRE-CONSTRUCTION GPR SCAN.

UTILITY LOCATION:
THE CONTRACTOR SHALL INCLUDE A THIRD PARTY GPR AND EXISTING UTILITY LOCATION SERVICE IN ALL WORK ZONES TO DETERMINE EXISTING LOCATIONS OF BELOW GRADE UTILITIES. ANY DAMAGED LINES SHALL BE REPAIRED AS SOON AS IS POSSIBLE (WITHIN HOURS OF A FOUND BREAK). ANY DAMAGE TO EX. UTILITIES WILL BE REPAIRED AT THE CONTRACTORS EXPENSE.

DEWATERING:
THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS, PROVIDED SOIL BORINGS AND DETERMINE THEIR OWN NEEDS FOR DEWATERING NECESSARY TO BUILD THE PROJECT. DEWATERING WILL NOT BE PAID FOR SEPARATELY. ALL DEWATERING DISCHARGE POINTS SHALL BE PROPERLY COORDINATED AND MAINTAINED TO PROTECT AGAINST EROSION.

OPEN EXCAVATIONS / TEMP. CHAIN LINK FENCE / STEEL PLATES:
ALL OPEN EXCAVATIONS SHALL BE EITHER BACKFILLED TO ROUGH FINISH GRADE OR A MOVEABLE CHAIN LINK FENCE / STEEL PLATES SHALL ENCLOSE OR COVER ANY AREAS WHEN CONTRACTORS LEAVE FOLLOWING THE WORK DAY. FENCING SHALL NOT IMPEDE REQUIRED WALKING PATHS FOR DOC INMATES OR STAFF.

PROJECT PHASING:
THE CONTRACTOR SHALL PREPARE A PHASING PLAN, FOLLOWING AWARD OF THE PROJECT, FOR PRESENTATION TO THE OWNER TEAM FOR REVIEW AND APPROVAL. THIS PLAN SHALL ACHIEVE THE REQUIREMENTS NOTED IN THIS PLAN, TO ALLOW FOR CONTINUED OPERATION AND PRISON MOVEMENT IN THE WORK ZONE.

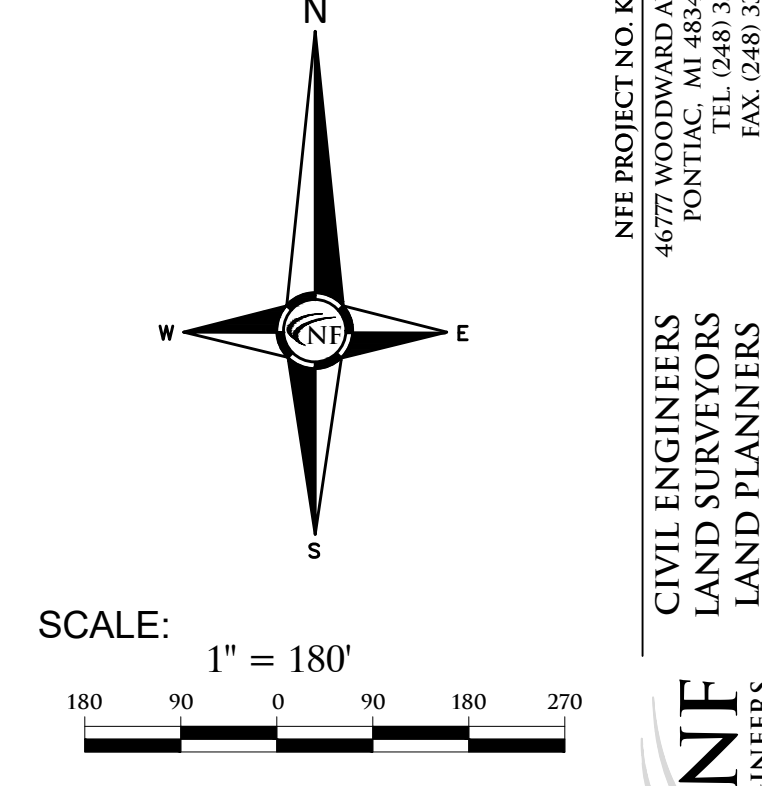
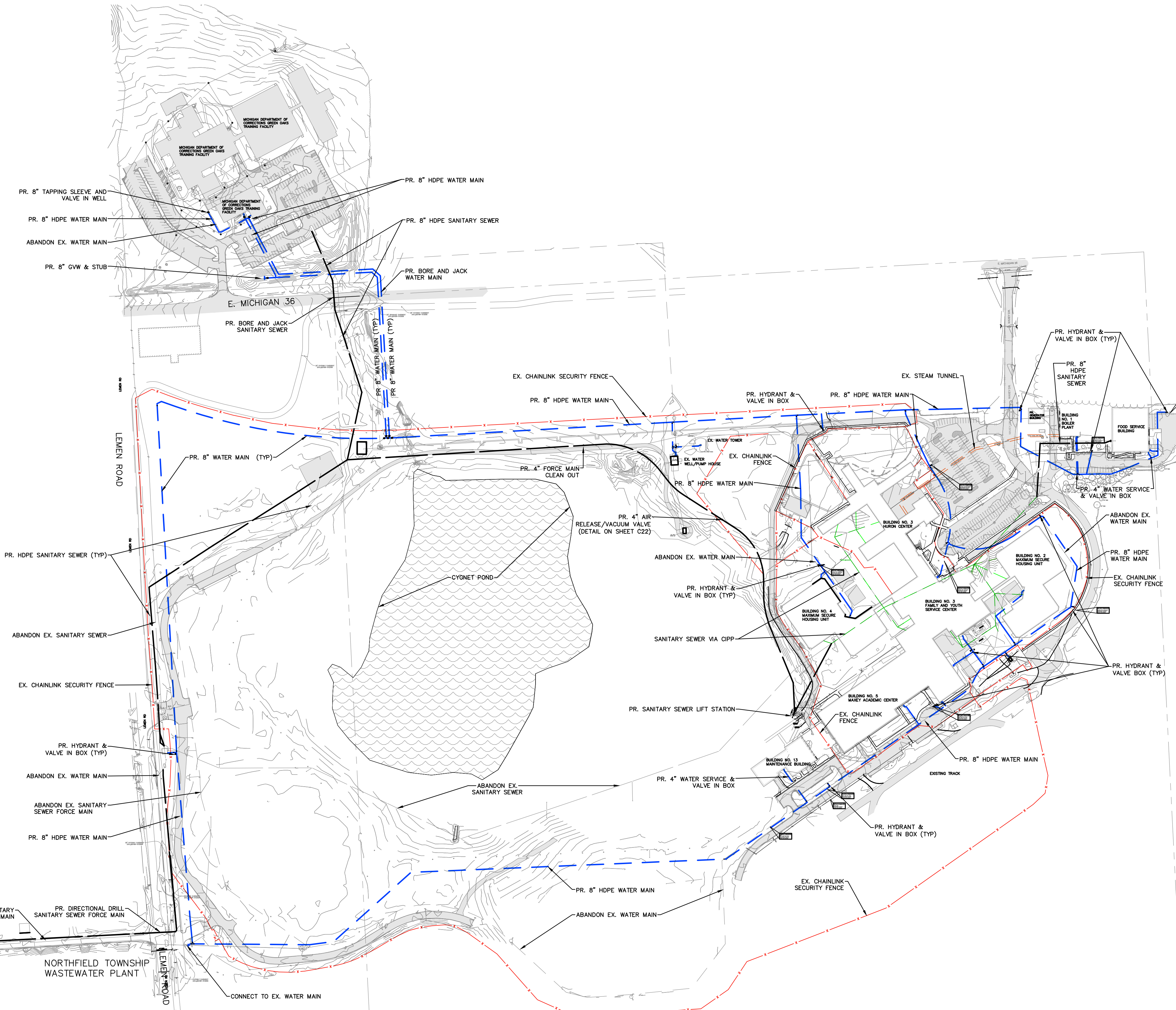
DAMAGE TO PRIVATE PROPERTY
ALL SIDEWALKS, DRIVEWAYS, LAWNS, FENCING, TREES, SHRUBS, SPRINKLERS, LANDSCAPING, ETC., THAT ARE DAMAGED DURING CONSTRUCTION MUST BE REPAIRED OR REPLACED, IN KIND OR BETTER, BY THE CONTRACTOR. ALL STREET SIGNS, MAIL BOXES, ETC., REMOVED SHALL BE REPLACED IN KIND OR BETTER, BY THE CONTRACTOR. ALL THE REPAIRS OR REPLACEMENTS DUE TO THE CONTRACTOR'S WORK ARE TO BE INCLUDED IN THE CONTRACT PRICE(S) AND SHALL NOT BE AN EXTRA TO THE CONTRACT.

THE CONTRACTOR SHALL SECURE PERMISSION IN WRITING FROM ADJACENT PROPERTY OWNERS PRIOR TO ENTERING UPON ANY ADJOINING PROPERTIES, UNLESS OFFSITE PERMITS HAVE ALREADY BEEN OBTAINED BY THE OWNER AND ARE PART OF THE CONTRACT DOCUMENTS.

PROJECT RESTORATION
ALL DISTURBED GREENBELTS TO BE RESTORED WITH 2" SCREENED TOPSOIL AND CLASS A HYDROSEED.

WATER / SEWER SEPARATION
ALL PROPOSED WATER SERVICES AND MAINS SHALL MAINTAIN A MINIMUM 10' HORIZONTAL AND 18" VERTICAL SEPARATION FROM EXISTING OR PROPOSED SANITARY SEWER MAINS / SERVICES (TYP).

DIRECTIONAL DRILLING
ALL PROPOSED UTILITY LINES SHALL BE INSTALLED BY HORIZONTAL DIRECTIONAL DRILLING, UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER (SHORT RUNS, CONNECTIONS, ETC.). ALL INSTALLED LINES SHALL INCLUDE A BURIED TRACER WIRE OF APPROPRIATE SIZE FOR FUTURE LOCATION PURPOSES. BORING LOGS INCLUDING A DATA LOGGER VAULT/MCELROY JOINT REPORT, SHALL BE PROVIDED TO THE ENGINEER, THAT SHOW INSTALLED PIPE LOCATIONS AND DEPTHS AT 50' INTERVALS AND CHANGE OF DIRECTION, PRIOR TO ACCEPTANCE AND PAYMENT FOR PIPE.



LEGEND

MANHOLE	EXISTING SANITARY SEWER
HYDRANT	SAN. CLEAN OUT
MANHOLE CATCH BASIN	EXISTING WATER MAIN
UTILITY POLE	EXISTING STORM SEWER
GUY POLE	EX. R. Y. CATCH BASIN
GUY WIRE	EXISTING BURIED CABLES
	OVERHEAD LINES
	LIGHT POLE
	SIGN
C.O.	EXISTING GAS MAIN
HYDRANT	PR. SANITARY SEWER
INLET	PR. WATER MAIN
	PR. STORM SEWER
	PR. R. Y. CATCH BASIN
	SAND BACKFILL (95% DENSITY)
	PROPOSED LIGHT POLE

NORTHFIELD TOWNSHIP WASTEWATER PLANT

NEE PROJECT NO. K64806
4575 WOODLAND AVENUE
FONTAINE, MI 48342-5931
TEL. (248) 332-7931
FAX. (248) 332-8257

CIVIL ENGINEERS
LAND SURVEYORS
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ENGINEERS

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
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PROJECT DESCRIPTION
**WOODLAND CORRECTIONAL CENTER
- UTILITY IMPROVEMENT PROGRAM**
WHITMORE LAKE, LIVINGSTON COUNTY, MICHIGAN

PROJECT NO. 47203128-SW

INDEX	1
PCA	00-0000
DRAWN BY	MAW
DESIGNED BY	MAW
JC/ENG BY	SWS

C1

SOIL EROSION CONTROL

CUTTING, FILLING AND GRADING SHALL BE MINIMIZED AND THE NATURAL TOPOGRAPHY OF THE SITE SHALL BE PRESERVED TO THE MAXIMUM POSSIBLE EXTENT.

DEVELOPMENT SHALL BE STAGED TO KEEP THE EXPOSED AREAS OF SOIL AS SMALL AS PRACTICABLE.

SEDIMENT RESULTING FROM ACCELERATED SOIL EROSION DURING CONSTRUCTION SHALL BE REMOVED FROM RUNOFF WATER BEFORE THAT WATER LEAVES THE SITE. BEST MANAGEMENT PRACTICE SHALL BE UTILIZED TO MITIGATE BUILDUP OF WATER RUNOFF VELOCITIES.

TEMPORARY AND PERMANENT SOIL EROSION CONTROL MEASURES DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF WATER AROUND, THROUGH, OR AWAY FROM THE SITE SHALL BE DESIGNED TO LIMIT THE WATER FLOW TO A NON-EROSIVE VELOCITY.

TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE REMOVED AFTER PERMANENT SOIL EROSION CONTROL MEASURES HAVE BEEN IMPLEMENTED. ALL SITES SHALL BE STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES.

WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHEN SIGNIFICANT EARTH CHANGE ACTIVITY OCCURS, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED.

PERMANENT EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 15 (FIFTEEN) CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.

VEGETATED BUFFER STRIPS SHALL BE RETAINED ALONG THE EDGES OF ALL LAKES, PONDS, CREEKS, STREAMS, OTHER WATERCOURSES, OR WETLANDS.

EROSION AND SEDIMENTATION CONTROL MEASURES SHALL RECEIVE REGULAR MAINTENANCE TO ASSURE PROPER FUNCTIONING.

ALL GRADING PLANS AND SPECIFICATIONS, INCLUDING EXTENSIONS OF PREVIOUSLY APPROVED PLANS, SHALL INCLUDE PROVISIONS FOR EROSION AND SEDIMENT CONTROL. CONTRACTOR SHALL OBTAIN SESC PERMIT FROM THE DTMB PRIOR TO COMMENCEMENT OF ANY SOIL DISTURBANCE ON THE PROJECT.

SOIL EROSION NOTE

ALL WORK UNDER THIS CONTRACT MUST MEET THE STORM WATER MANAGEMENT REQUIREMENTS OF THE PROJECT AND COMPLY WITH THE APPLICABLE SOIL EROSION AND SEDIMENTATION CONTROL (SESC) RULES AND REGULATIONS (SOIL EROSION AND SEDIMENTATION CONTROL 1994 PA 451, PART 91, AS AMENDED, MCL 324.9101) AND SPECIFIC PROVISIONS AND REGULATIONS FOR SAME WITHIN THE CONTRACT DOCUMENTS. THE DEPARTMENT OF TECHNOLOGY MANAGEMENT AND BUDGET, STATE FACILITIES ADMINISTRATION, AN AUTHORIZED PUBLIC AGENCY (APA), HAS PROMULGATED STANDARD PROCEDURES AND SPECIFICATIONS FOR EROSION CONTROL THAT SHALL BE CONSIDERED A PART OF THE CONTRACT DOCUMENTS. SESC MEASURES WILL BE MONITORED AND ENFORCED BY STATE FACILITIES ADMINISTRATION THROUGH THE REVIEW OF THE CONTRACTOR'S IMPLEMENTATION PLANS AND SITE INSPECTIONS. STATE FACILITIES ADMINISTRATION OR THE PROFESSIONAL WILL NOTIFY THE CONTRACTOR IN WRITING OF ANY VIOLATIONS OF THE APPLICABLE SESC STATUTES AND / OR THE CORRECTIVE ACTIONS UNDERTAKEN BY THE OWNER AND MAY ISSUE STOP WORK ORDERS. STATE FACILITIES ADMINISTRATION HAS THE RIGHT TO ASSESS A \$500/DAY FINE TO THE CONTRACTOR FOR NONCOMPLIANCE WITH THE PROVISIONS OF THE CONTRACT DOCUMENTS AND / OR SESC REGULATIONS APPLICABLE TO THIS WORK AND FINES SHALL BE IN ADDITION TO ANY REMEDIATION COSTS OR LIQUIDATED DAMAGES APPLICABLE TO THE PROJECT AND MAY EXCEED THE VALUE OF THE CONTRACT.

SOIL DATA

THIS SITE CONSISTS OF

- B1B - BOYER-OSHTEMO LOAMY SANDS, 2 TO 6 PERCENT SLOPES
- B1 - BROOKSTON LOAM, 0 TO 2 PERCENT SLOPES
- CorobA - CARLISLE MUCK, 0 TO 2 PERCENT SLOPES
- C1A - CONOVER LOAM, 0 TO 2 PERCENT SLOPES
- G4 - GILFORD SANDY LOAM, 0 TO 2 PERCENT SLOPES, GRAVELLY SUBSOIL
- H18H - HOUGHTON MUCK, 0 TO 1 PERCENT SLOPES
- M6A - WAWASEE LOAM, 0 TO 2 PERCENT SLOPES
- M6B - WAWASEE LOAM, 2 TO 6 PERCENT SLOPES
- M6C - WAWASEE LOAM, 6 TO 12 PERCENT SLOPES
- M6D - MIAMI LOAM, 12 TO 18 PERCENT SLOPES
- M6E - MIAMI LOAM, 18 TO 25 PERCENT SLOPES

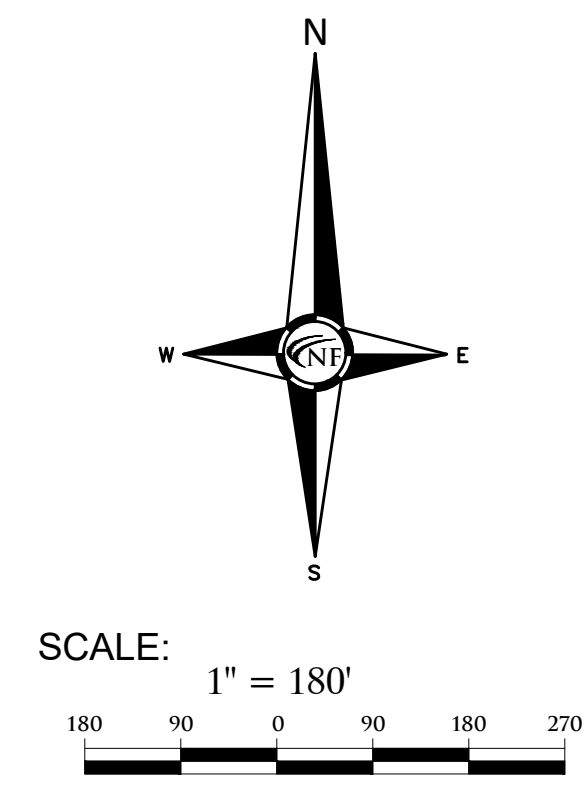
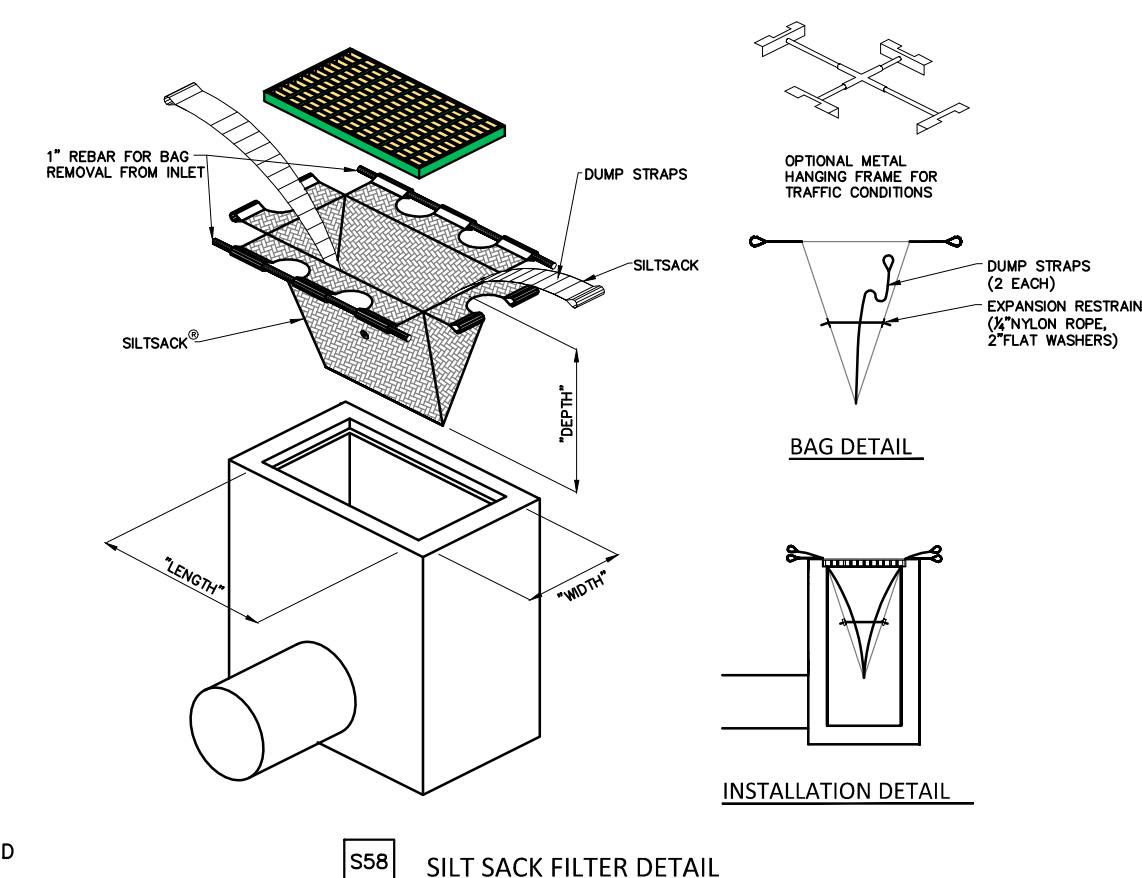
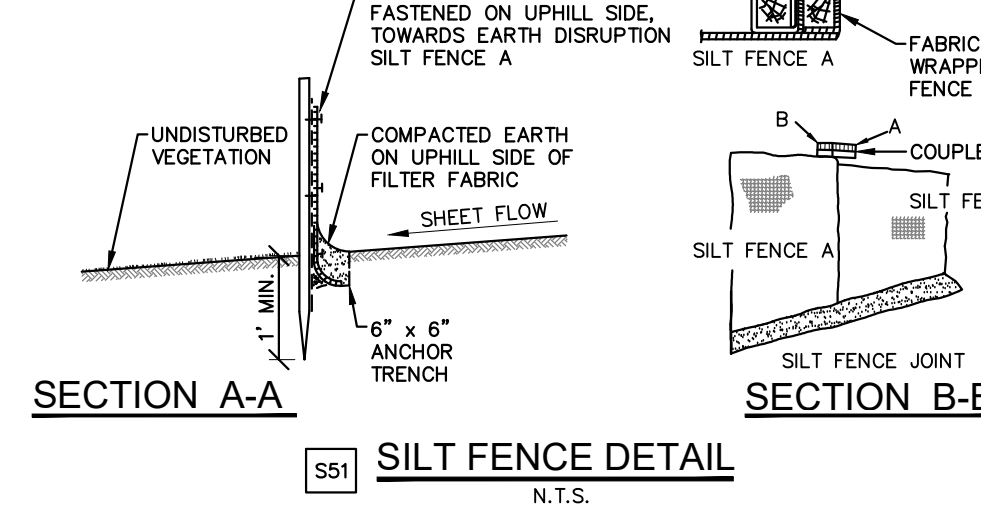
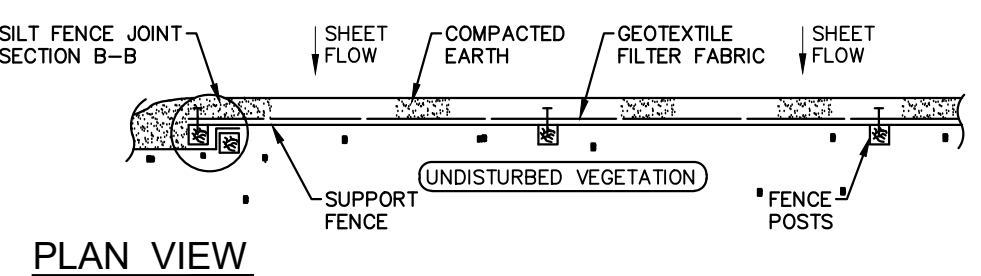
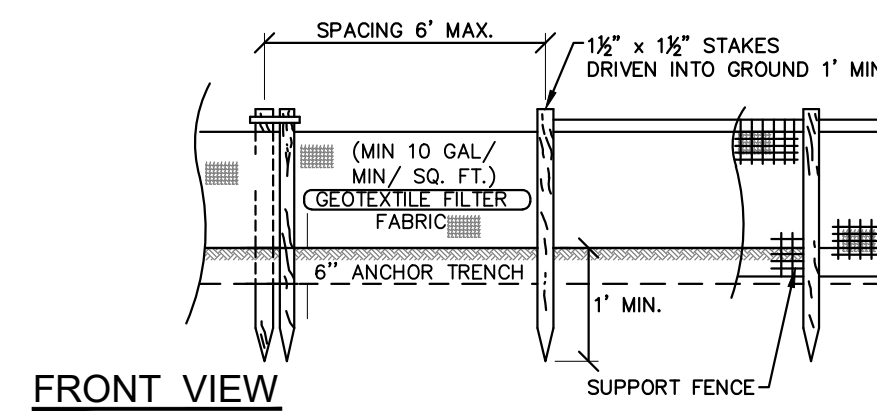
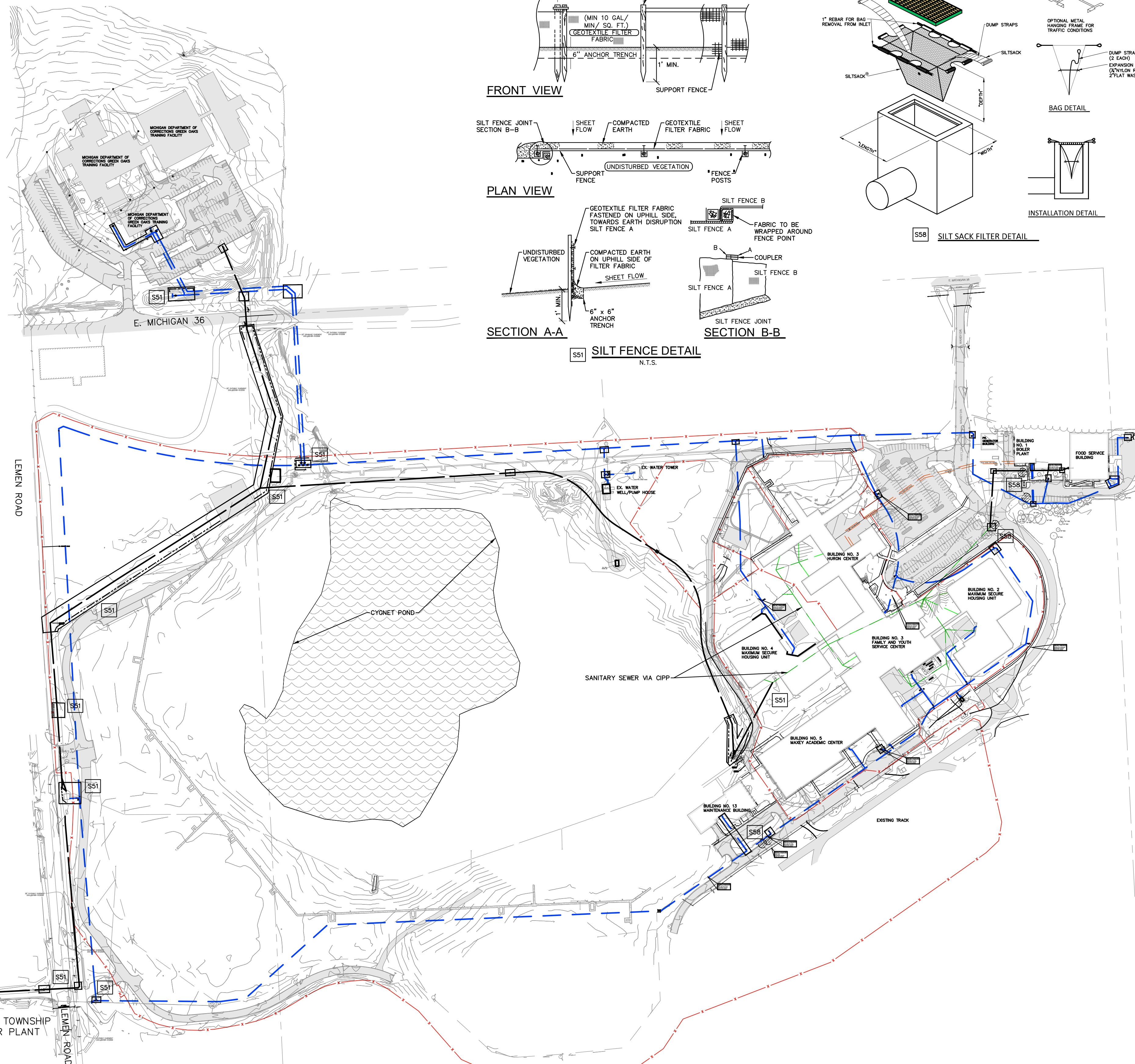
BASED ON DATA PROVIDED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE.

NOTES

A DISTANCE TO THE NEAREST BODY OF WATER: CYONET POND, ON-SITE.

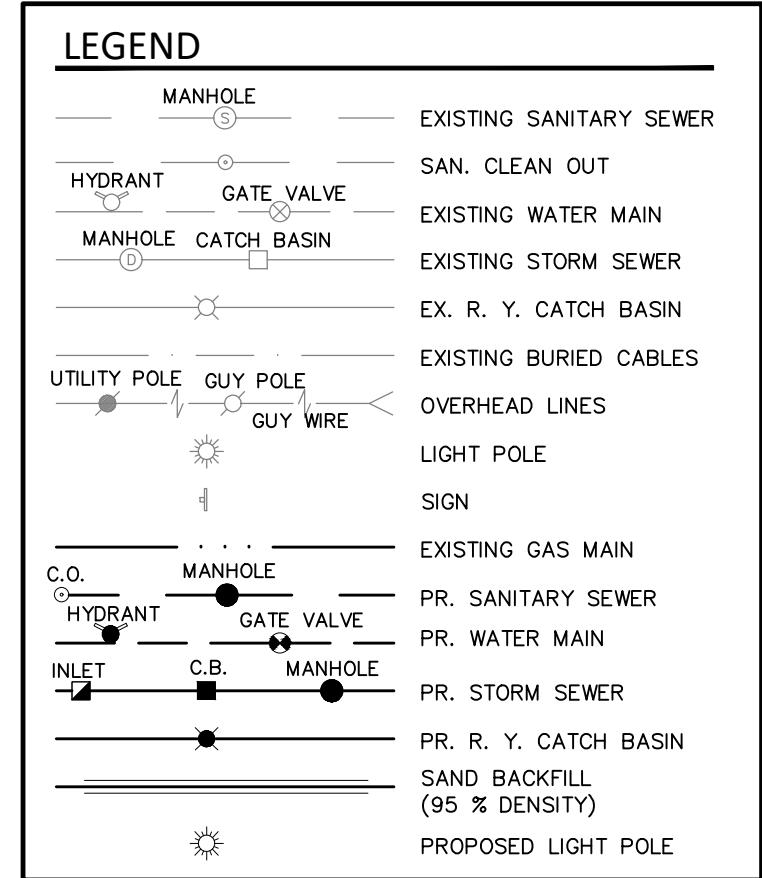
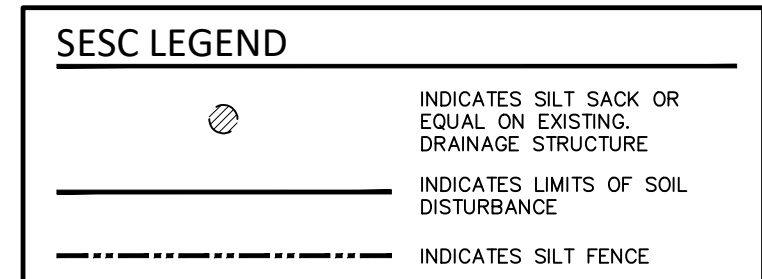
THE TOTAL AREA OF EARTH DISRUPTION IS ±2.36 ACRES.

THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY CONTRACTOR.



SOIL EROSION CONTROL NOTES

1. ALL WORK SHALL COMPLY WITH THE APPLICABLE SOIL EROSION AND SEDIMENTATION CONTROL (SESC) RULES AND REGULATIONS (SOIL EROSION AND SEDIMENTATION CONTROL - 1994 PA 451, PART 91, AS AMENDED, MCL 324.9101 ET SEQ.).
2. ALL EARTH CHANGES OF ONE ACRE OR MORE OR WITHIN 500 FEET OF WATERS OF THE STATE REQUIRE A SESC PERMIT. IF A SESC PERMIT IS REQUIRED, THE PROFESSIONAL SERVICES CONTRACTOR (DESIGN CONSULTANT) SHALL PREPARE AN SESC PLAN. THE SESC PLAN SHALL ADDRESS BOTH WIND AND WATER EROSION AND SEDIMENTATION.
3. THE CONTRACTOR SHALL REVIEW THE DESIGN CONSULTANT'S SESC PLAN IN ORDER TO PREPARE AND ISSUE FOR APPROVAL AN SESC IMPLEMENTATION PLAN, WHICH INDICATES THE CONTRACTOR'S INTENDED IMPLEMENTATION OF THE SESC PLAN FOR THE PROJECT, INCLUDING A SCHEDULE.
4. THE DTMB SESC PROGRAM, UPON APPROVAL OF THE IMPLEMENTATION PLAN, WILL ISSUE THE CONTRACTOR AN AUTHORIZATION TO PROCEED WITH EARTH CHANGE, WHICH IS TO BE POSTED AT THE JOB SITE. THIS DOCUMENT IS ISSUED IN LIEU OF A PERMIT FROM THE COUNTY OR OTHER LOCAL ENFORCING AGENCY.
5. THE CONTRACTOR SHALL IMPLEMENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY THE PROJECT'S SESC PLAN, SESC IMPLEMENTATION PLAN, DTMB'S SOIL EROSION AND SEDIMENTATION CONTROL GUIDEBOOK, DATED FEBRUARY 2005, AND AS DIRECTED BY THE PROFESSIONAL SERVICES CONTRACTOR, DTMB SESC INSPECTOR, AND/OR DTMB PROJECT DIRECTOR. THE DTMB SESC INSPECTOR SHALL INSPECT THE SITE WEEKLY AND AFTER SIGNIFICANT RAIN EVENTS.
6. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO OR UPON COMMENCEMENT TO EARTHWORK ACTIVITIES.
7. THE CONTRACTOR WILL PERFORM SWEEPING AS NEEDED TO REMOVE ANY SEDIMENT TRACKED OFF SITE. FREQUENCY OF SWEEPING WILL BE BASED ON SITE CONDITIONS.
8. THE CONTRACTOR WILL PERFORM DUST CONTROL AS NEEDED BASED ON SITE CONDITIONS.
9. DISTURBED AREAS THAT WILL REMAIN IDLE DURING CONSTRUCTION MUST BE TEMPORARILY STABILIZED, INCLUDING SOIL STOCKPILES, USING DTMB SESC BEST MANAGEMENT PRACTICES.
10. THE CONTRACTOR SHALL MAINTAIN AND INSPECT SESC MEASURES THROUGHOUT THE COURSE OF THE PROJECT, RECOMMEND INSPECTING AND MAINTAINING EROSION AND SEDIMENTATION CONTROLS ON A DAILY BASIS. AT A MINIMUM, THE CONTRACTOR SHALL INSPECT AND MAINTAIN SESC MEASURES ONCE A WEEK AND AFTER RAIN EVENTS.
11. THE CONTRACTOR SHALL CORRECT NON-COMPLYING SESC MEASURES WITHIN 24 HOURS, IF WATERS OF THE STATE ARE BEING IMPACTED OR WITHIN 48 HOURS FOR ROUTINE MAINTENANCE ITEMS. OTHER SESC MAINTENANCE SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NEVER MORE THAN FIVE (5) DAYS AFTER DETECTION.
12. THE CONTRACTOR SHALL COMPLETE PERMANENT SOIL EROSION CONTROL MEASURES FOR ANY DISTURBED LAND AREA WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. THE CONTRACTOR SHALL MAINTAIN TEMPORARY CONTROL MEASURES UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IN PLACE AND THE AREA IS STABILIZED.
13. THE CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER PERMANENT SOIL EROSION MEASURES ARE IN PLACE AND THE AREA IS STABILIZED. CARE SHALL BE TAKEN DURING REMOVAL TO PREVENT SOIL EROSION AND SEDIMENTATION.
14. AFTER THE COMPLETION OF THE PROJECT, PERMANENT SESC MEASURES WILL BE MAINTAINED BY THE PROPERTY OWNER.



STREET CLEANING SCHEDULE (MINIMUM REQUIREMENT)

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
SCRAPE STREETS	X	X	X	X	X	X	X
SWEEP STREETS							

SESC SEQUENCE

CONSTRUCTION EVENTS	2025												2026
	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	
INSTALL TEMPORARY SOIL EROSION MEASURES													
UTILITY ABANDONMENT													
WATER MAIN AND SANITARY SEWER INSTALLATION													
INSTALL LANDSCAPING / SEED & MULCH													
REMOVE SOIL EROSION CONTROL ITEMS													

NORTHFIELD TOWNSHIP WASTEWATER PLANT

NE PROJECT NO. K64806
4327 WOODLAND AVENUE
FONTANA, MI 48342-5031
TEL: (248) 332-7931
FAX: (248) 332-8257

CIVIL ENGINEERS
LAND SURVEYORS
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ENGINEERS

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
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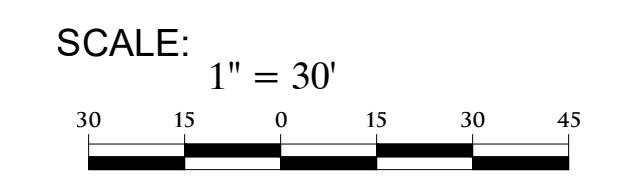
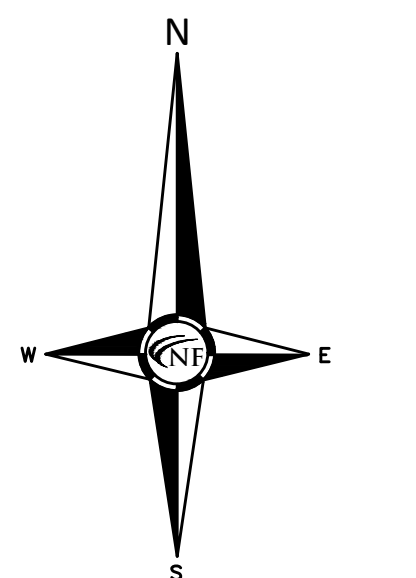
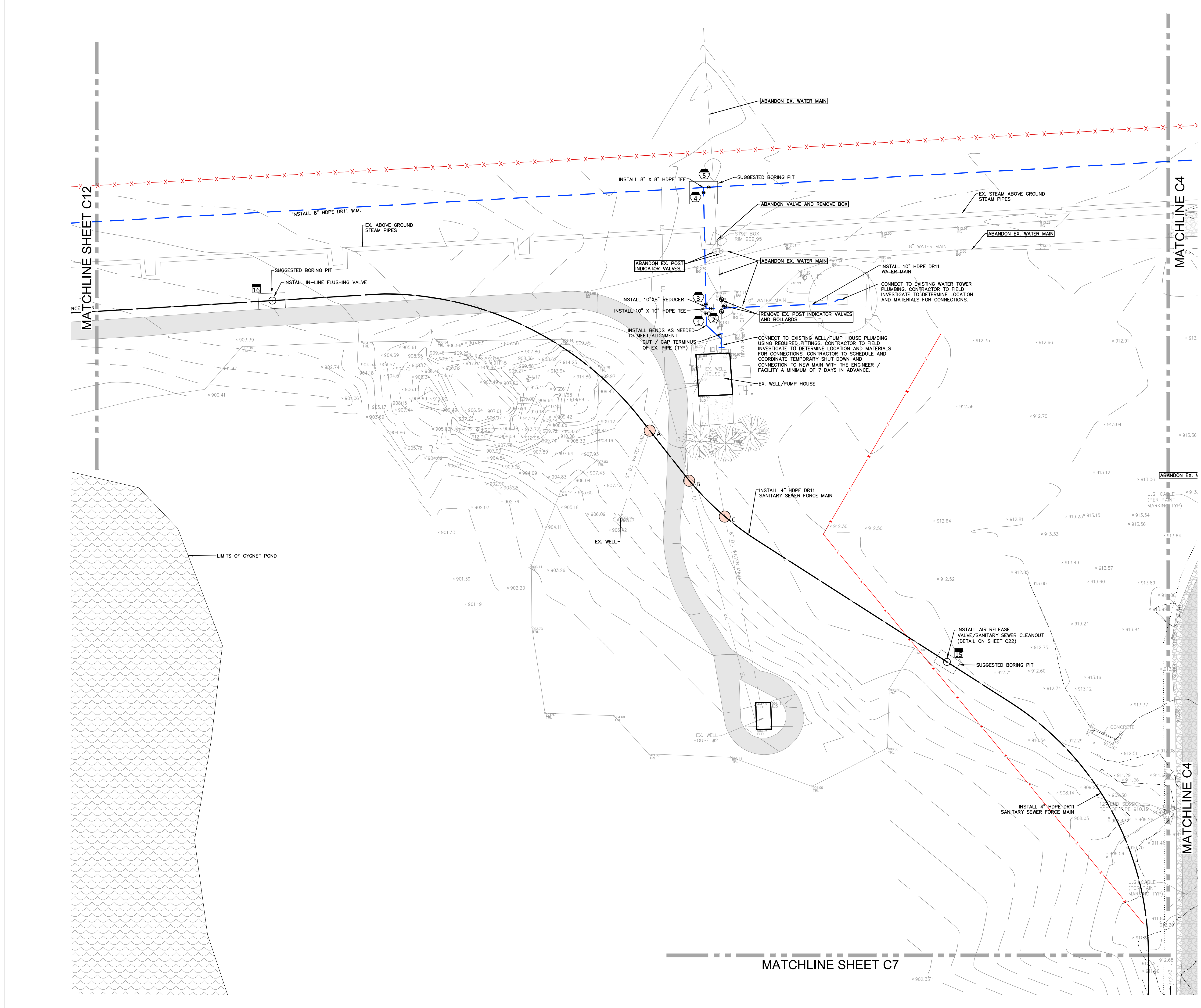
PROJECT DESCRIPTION
WOODLAND CORRECTIONAL CENTER
- UTILITY IMPROVEMENT PROGRAM
WHITMORE LAKE, LIVINGSTON COUNTY, MICHIGAN

SOIL EROSION & SEDIMENTATION CONTROL PLAN

INDEX	DATE	DRAWN BY	DESIGNED BY	SCALE
1	00-0000	MAW	MAW	SW/S

PROJECT NO. 47203128.S00

C2



REDUCED ACCESS AREAS
 THERE MAY BE AREAS THAT PROVIDE LIMITED OR REDUCED ACCESS WIDTH/AREA WITHIN THE FACILITY TO PERFORM THE PREFERRED METHOD OF HYDRO EXCAVATION DUE TO SIZE OF THE REQUIRED VEHICLES/EQUIPMENT. THE CONTRACTOR MAY REQUEST AN ALTERNATE MEANS OF EXCAVATION TO BE REVIEWED AND APPROVED BY THE FACILITY PRIOR TO PERFORMING THE WORK. LOCATIONS WHERE THIS MAY OCCUR HAVE BEEN NOTED IN EACH AREA OF WORK.

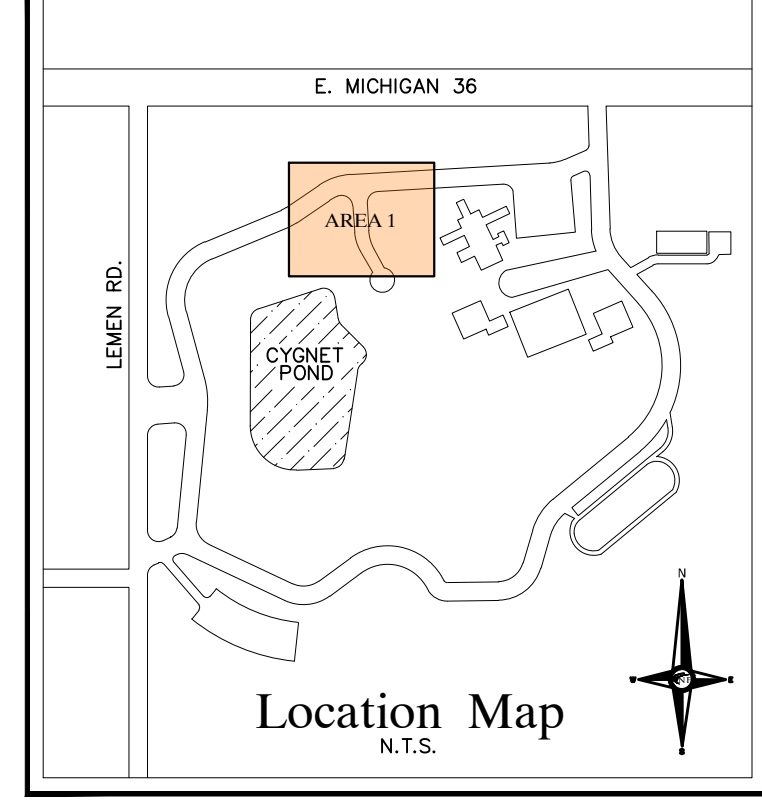
SURFACE REPAIRS
 ANY PAVED OR GRAVEL AREA THAT IS DAMAGED DURING THE PROJECT SHALL BE REPAIRED "IN KIND" OR PER THE PROVIDED CROSS SECTIONS (WHICHEVER IS MORE STRINGENT).

PIPE ABANDONMENT
 ANY UNCOVERED OR CUT WATER / SEWER LINES TO BE ABANDONED IN PLACE SHALL BE CAPPED OR BULKHEADED PRIOR TO BACKFILL (TYP. FOR PROJECT).

- WATERMAIN STRUCTURE SCHEDULE**
- 1 PR. 8" GATE VALVE IN BOX
FG 910.85
 - 2 PR. 8" GATE VALVE IN BOX
FG 910.83
 - 3 PR. 8" GATE VALVE IN BOX
FG 910.87
 - 4 PR. 8" GATE VALVE IN BOX
FG 910.24
 - 5 PR. 8" GATE VALVE IN BOX
FG 910.13

- SANITARY STRUCTURE SCHEDULE**
- 15A PR. AIR RELEASE VALVE IN MANHOLE
FG 911.65
4" E. T/P 906.15
4" W. T/P 906.15
 - 15B PR. FLUSHING VALVE IN MANHOLE
FG 904.04
4" SE. T/P 898.54
4" NW. T/P 898.54

- CROSSING SCHEDULE**
- A FG. 909.95±
EX. 6" DI WTR B/P APPROX. 903.90
PR. 4" SAN T/P 902.40
 - B FG. 910.00±
EX. UNDERGROUND ELECTRICAL
PR. 4" SAN T/P 903.68
 - C FG. 910.68±
EX. 6" DI WTR B/P APPROX. 905.18
PR. 4" SAN T/P 903.68



LEGEND

MANHOLE	EXISTING SANITARY SEWER
HYDRANT	SAN. CLEAN OUT
MANHOLE CATCH BASIN	EXISTING WATER MAIN
UTILITY POLE	EXISTING STORM SEWER
GUY POLE	EX. R. Y. CATCH BASIN
GUY WIRE	EXISTING BURIED CABLES
	OVERHEAD LINES
	LIGHT POLE
	SIGN
	EXISTING GAS MAIN
C.O. MANHOLE	PR. SANITARY SEWER
HYDRANT	PR. WATER MAIN
INLET	PR. STORM SEWER
	PR. R. Y. CATCH BASIN
	SAND BACKFILL (95% DENSITY)
	PROPOSED LIGHT POLE

NE PROJECT NO. K64806
 4575 WOODLAND AVE. SUITE 100
 FOUNTAIN, MI 48342-5931
 TEL: (248) 332-7931
 FAX: (248) 332-8257

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

ENGINEERS

STATE OF MICHIGAN
 DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
 STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
 ADAM P. LACH, RA, NCARB, DIRECTOR

DATE	REVISION
03-17-2025	Phase 500 90%
12-05-2024	Phase 500 50%
08-15-2024	Phase 400 50%
12-12-2023	REVIEW

PROJECT DESCRIPTION
WOODLAND CORRECTIONAL CENTER
- UTILITY IMPROVEMENT PROGRAM
 WHITMORE LAKE, LIVINGSTON COUNTY, MICHIGAN

PROJECT NO. 47203238.S000
 INDEX
 PCA 00-0000
 DRAWN BY MAW
 DESIGNED BY MAW
 CHECKED BY JCIENG BY SWS

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