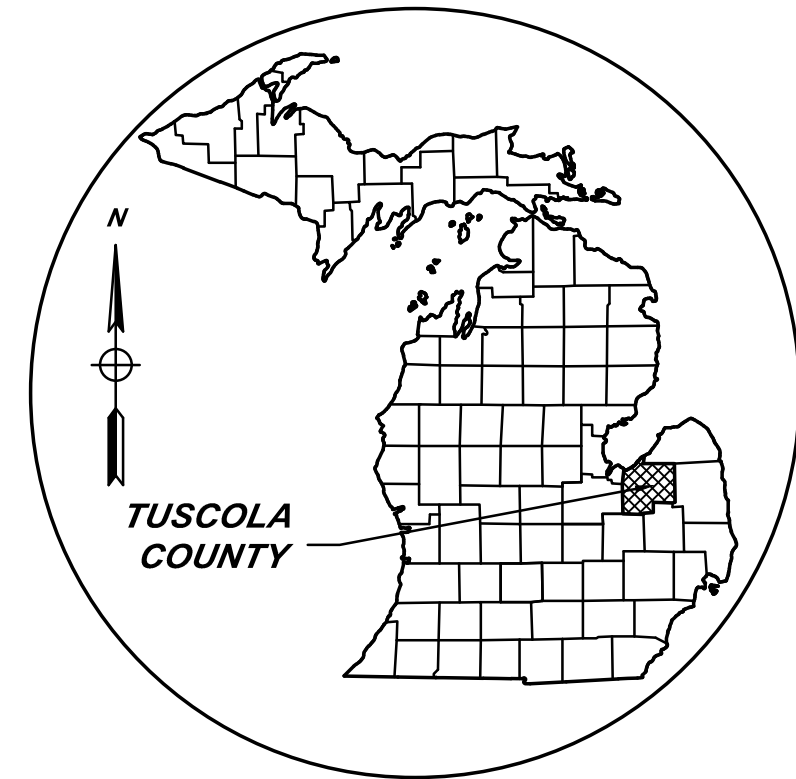
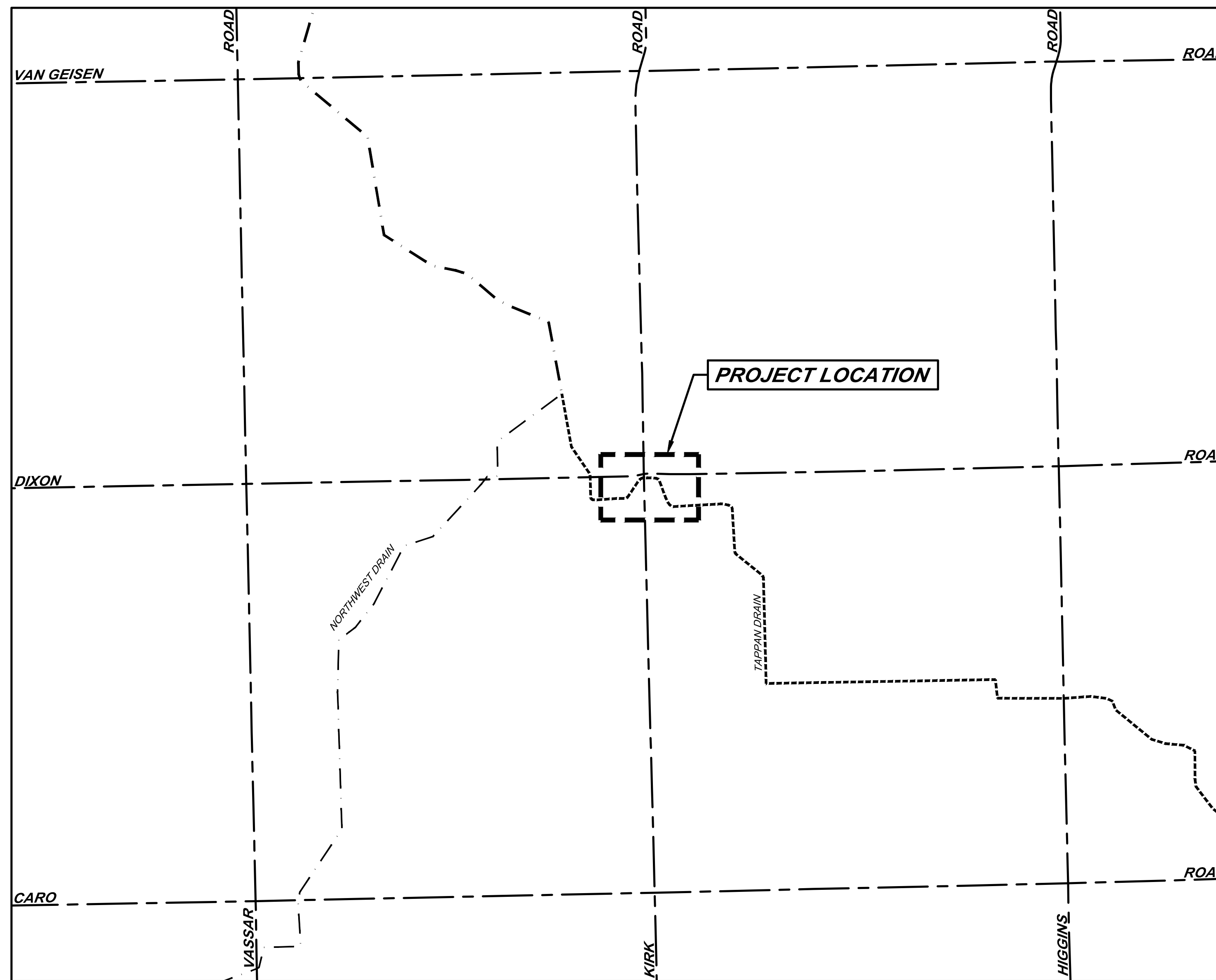


# KIRK ROAD CROSSING

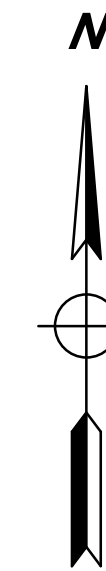
## TUSCOLA COUNTY ROAD COMMISSION



**AREA MAP**  
NOT TO SCALE



**LOCATION MAP**  
NOT TO SCALE



SECTIONS 07, & 08, T12N-R08E,  
JUNIATA TOWNSHIP,  
TUSCOLA COUNTY, MICHIGAN

**PLAN INDEX**

FILE NO.	DESCRIPTION	NO.
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**PRELIMINARY**

2/3/26

BY	MARK	REVISIONS	DATE

THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.

**KIRK ROAD CROSSING  
TUSCOLA COUNTY, MICHIGAN**

**COVER SHEET**



SAGINAW OFFICE  
230 S. Washington Ave.  
Saginaw, MI 48607  
Tel: 989-754-4717  
Fax: 989-754-4440  
www.SpicerGroup.com

DE. BY: POC/TMC	CH. BY: TMC	PROJECT NO.
DR. BY: MJC	APP. BY: NDC	137942SG2025

STDS.	SHEET 01 OF 07	<b>DR</b>
DATE: FEBRUARY, 2026	FILE NO.	<b>01</b>
SCALE: NOT TO SCALE	DR-6570-01	

P:\Projects\137942SG2025\_Tuscola\_CRC\_2025\_AN\_Design\_Services\Kirk Road Crossing.dwg Tappan Drain\CAD\_GIS\Map\DR-6570-01-COVER SHEET.dwg, 2/3/2026 9:18:12 AM, michael.courney  
 MICHAEL COURNEY / 2/3/2026

## GENERAL NOTES

NO WORK SHALL BE PERFORMED BEFORE 7:00 AM OR AFTER 7:00 PM MONDAY THROUGH SATURDAY. NO WORK SHALL HAPPEN ON SUNDAYS OR HOLIDAYS, UNLESS AUTHORIZED BY THE OWNER.

CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS PRIOR TO START OF CONSTRUCTION, CONSTRUCTION STAKING AND INSPECTION.

CONTRACTOR SHALL MAINTAIN ACCESS FOR MAIL DELIVERY AND GARBAGE PICKUP AT ALL PARCELS. IF THESE SERVICES CANNOT BE PERFORMED, CONTRACTOR IS RESPONSIBLE FOR TAKING THE NECESSARY MEASURES TO CARRY THEM OUT.

COORDINATE DRIVE CLOSURES AND MAIL BOX RELOCATION WITH LANDOWNERS A MINIMUM OF ONE DAY IN ADVANCE.

CONTRACTOR TO PROVIDE DUST CONTROL AND SWEEP ROADS DAILY.

ALL EXCAVATED MATERIAL NOT TO BE REUSED OR DISPOSED OF ON SITE SHALL BE REMOVED FROM SITE. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF MATERIALS ACCORDING TO LOCAL AND STATE REQUIREMENTS.

### 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.

THE EXISTING UTILITIES ON THESE DRAWINGS HAVE BEEN SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND SHALL NOTIFY THE ENGINEER AS TO WHERE POSSIBLE CONFLICT EXISTS.

ALL CONSTRUCTION UNDER EXISTING UTILITIES, INCLUDING HOUSE SERVICES, SHALL BE COMPLETELY BACKFILLED WITH SAND, IN 12" LAYERS, AND COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM UNIT WEIGHT.

ANY UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE SUPPORTED, PER THE SPECIFICATIONS OF THE INDIVIDUAL UTILITY COMPANY CLAIMING OWNERSHIP OF THE UTILITY.

### SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTH-DISTURBING ACTIVITIES. PLACE TURF ESTABLISHMENT ITEMS AS SOON AS POSSIBLE ON POTENTIAL ERODABLE SLOPES AS DIRECTED BY OWNER. CRITICAL DITCH GRADES SHALL BE PROTECTED WITH EITHER SOD, SEED/MULCH, OR SEED/MULCH BLANKET AS DIRECTED BY OWNER.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND MAINTAINED UNTIL THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MEASURES SHALL ONLY BE PAID FOR ONCE.

ALL CATCHBASINS AND SEDIMENTATION TRAPS/BASINS SHALL BE CLEANED OUT UPON COMPLETION OF THE PROJECT.

CONTRACTOR SHALL CONFORM TO SOIL EROSION AND SEDIMENTATION CONTROL ACT, PART 91 OF ACT 451 OF 1994.

### PROPERTY OWNERS

PROPERTY OWNERS' NAMES, WHERE SHOWN, ARE FOR INFORMATION ONLY, AND THEIR ACCURACY IS NOT GUARANTEED.

### ADJUSTING MONUMENT BOXES

ALL GOVERNMENT CORNERS ON THIS PROJECT SHALL BE PRESERVED, WHETHER SHOWN OR NOT. IT MAY BE NECESSARY TO PLACE OR ADJUST MONUMENT BOXES, AS REQUIRED.

### TRAFFIC

THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES. SIGNAGE MUST BE IN ACCORDANCE WITH THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL BE COORDINATED WITH THE ENGINEER AND GOVERNING ROAD AGENCY. PERMITS MAY BE REQUIRED.

### PERMITS

PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED BY THE APPROPRIATE AGENCIES.

CONSTRUCTION PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF THE APPROPRIATE AGENCIES.

## CONTACTS

TUSCOLA COUNTY ROAD COMMISSION ATT: BRENT DANKERT 1733 S MERTZ ROAD CARO, MI 48723 PHONE: (989) 673-2128	OWNER
SPICER GROUP ATT: TED M CHAMPAGNE, P.E. 230 S WASHINGTON AVENUE SAGINAW, MI 48607 PHONE: (989) 295-5029	ENGINEER
AT&T ATT: YURI STOUDEMIRE 54 N MILL STREET PONTIAC, MI 48342 PHONE: (248) 454-4364	TELEPHONE
DTE ENERGY ATT: SARA KIPP 1100 CLARK ROAD LAPEER, MI 48446 PHONE: (800) 477-4747 E-MAIL: SARA.FORCE@DTEENERGY.COM	ELECTRICAL
PIGEON TELEPHONE ATT: JEFF ZARNKE 20 S MAIN STREET PIGEON, MI 48755 PHONE: (989) 453-4343 E-MAIL: ZARNKEJ@AVCI.NET	FIBER/TELEPHONE
BRIGHTSPEED ATT: WADE MILLER 1120 S TRYON STREET, 7TH FLOOR CHARLOTTE, NC 28203 PHONE: (989) 277-7943 E-MAIL: WADE.MILLER@BRIGHTSPEED.COM	FIBER

## GENERAL NOTES CONT.

ALL WORK SHALL BE CONFINED TO THE RIGHT-OF-WAY OR CONSTRUCTION LIMITS SHOWN ON THE PLANS. ANY WORK OUTSIDE OF THESE LIMITS SHALL BE AGREED TO BY THE CONTRACTOR AND THE LANDOWNER IN WRITING.

RESTORE ALL LAWN AREAS PER SPECIFICATIONS AND PLANS.

CONTRACTOR TO RESTORE INCIDENTAL DAMAGES ON THE PROJECT AS DIRECTED BY OWNER AND ENGINEER AT THE CONTRACTOR'S EXPENSE.

ALL DRAIN SIDE SLOPES SHALL BE 2H:1V OR FLATTER, UNLESS SPECIFIED OTHERWISE.

THE WORDS "RIGHT SIDE" OR "LEFT SIDE" IMPLY A REFERENCE TO THE DRAIN FACING UPSTREAM.

REMOVE EXISTING FENCES, LANDSCAPING, AND OTHER STRUCTURES IN RIGHT-OF-WAY OR CONSTRUCTION LIMITS AS-NEEDED FOR CONSTRUCTION. COST TO BE INCLUDED IN SITE CLEARING.

REINSTALLATION OF FENCES MUST BE COORDINATED WITH THE LANDOWNER AT THE LANDOWNER'S EXPENSE, UNLESS STATED OTHERWISE IN THE PLANS.

ALL SPRINKLER SYSTEMS DAMAGED SHALL BE REPAIRED BY CONTRACTOR. COST TO BE INCLUDED IN AMOUNT BID FOR THE PAY ITEM BEING INSTALLED, UNLESS OTHERWISE NOTED.

CONTRACTOR TO CLEAR TREES WITHIN THE RIGHT-OF-WAY OR CONSTRUCTION LIMITS AS NECESSARY TO CONSTRUCT PROJECT AND LEVEL SPOILS AS SHOWN IN DETAILS. COORDINATE REMOVALS WITH THE ENGINEER/LANDOWNER.

### ROADS, DRIVEWAYS AND SIDEWALKS

ALL JOINTS AT INTERSECTION APPROACHES AND DRIVEWAYS SHALL BE SAW-CUT WITH BUTT-JOINTS.

FOR OPEN CUT PAVEMENT REMOVAL, CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT FULL DEPTH PRIOR TO REMOVAL.

ALL DRIVING SURFACES ARE TO BE RESTORED TO IN-KIND DEPTH AND MATERIAL, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

PROTECT ALL ROADS NOT SPECIFIED TO BE REMOVED DURING CONSTRUCTION. REPAIR ANY UNAUTHORIZED DAMAGE AT CONTRACTOR'S EXPENSE.

BROKEN CONCRETE AND DEBRIS SHALL BE CONSIDERED WASTE AND SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE. COST SHALL BE INCLUDED IN THE OTHER PAY ITEMS OF THE PROJECT.

MATCH EXISTING TYPE FOR CONCRETE CURB AND GUTTER RESTORATION.

CONTRACTOR SHALL REMOVE AND REPLACE ALL STREET AND TRAFFIC SIGNAGE AS NECESSARY FOR CONSTRUCTION. ALL COST SHALL BE INCLUDED IN THE BID PRICE FOR SITE CLEARING.

CONTRACTOR SHALL COORDINATE LOCATION OF ANY ACCESS ROADS WITH THE LANDOWNER AND THE ENGINEER. ANY ACCESS ROAD SHALL BE REPAIRED TO THE OWNER'S SATISFACTION.

ALL WORK WITHIN THE ROAD RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND GENERAL SPECIFICATIONS OF THE AGENCY WITH JURISDICTION OVER THE ROAD.

### MAIL BOXES

CONTRACTOR SHALL REMOVE AND TEMPORARILY RELOCATE ALL EXISTING MAIL BOXES AS NEEDED FOR CONSTRUCTION. COSTS TO BE INCLUDED IN THE UNIT PRICE BID FOR SITE CLEARING.

ALL TEMPORARILY RELOCATED MAIL BOXES, STREET AND TRAFFIC SIGNS TO BE REINSTALLED TO ORIGINAL LOCATIONS AS CONSTRUCTION ALLOWS. COSTS TO BE INCLUDED IN THE UNIT PRICE BID FOR CLEANUP AND RESTORATION.

### UTILITIES

UTILITIES LOCATED IN THE ROAD AND DRAIN RIGHTS-OF-WAY WILL BE RELOCATED BY OTHERS, UNLESS OTHERWISE NOTED ON THE PLANS.

THE COUNTY PUBLIC WORKS / DRAIN COMMISSIONER'S / WATER RESOURCES COMMISSIONER'S MINIMUM CLEARANCE STANDARDS SHALL BE MET WHENEVER RELOCATING EXISTING UTILITIES WITHIN THE DRAIN RIGHT-OF-WAY.

ALL WATER VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADE. COST SHALL BE INCLUDED IN THE PAY ITEM BEING INSTALLED.

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

ALL MAN-HOLE RIMS IN ROADWAYS AND DRIVES SHALL BE ADJUSTED PRIOR TO FINAL PAVING TO BE FLUSH WITH FINISHED GRADE.

GRADING AROUND MANHOLES/CATCHBASINS, FLARED END SECTIONS, AND OTHER INLETS SHALL BE SMOOTH AND SHAPED TO PROVIDE POSITIVE DRAINAGE INTO THE INLETS.

DEMOLISH EXISTING STRUCTURE(S) AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. COST TO BE INCLUDED WITH THE ITEM BEING INSTALLED AS DIRECTED BY OWNER/ENGINEER.

CONTRACTOR SHALL CONNECT ANY AND ALL FIELD TILE OUTLETS AND OTHER STORM LEADS TO PROPOSED STORM SEWER WITH PREMANUFACTURED TEES, WYES, GASKETS, SEALS, COUPLERS, BOOTS, ETC. PER SPECIFICATIONS.

### SOIL EROSION SEDIMENT CONTROL

ALL RIPRAP MATERIAL SHALL BE APPROVED BY THE ENGINEER. OWNER AND ENGINEER RESERVES THE RIGHT TO REJECT ANY AND ALL RIPRAP.

CONTRACTOR SHALL FINISH GRADE, SEED, FERTILIZE, AND MULCH DAILY ON ALL DISTURBED AREAS AS DESCRIBED IN THE SPECIFICATIONS.

## PROJECT NOTES

- PLANS WERE DESIGNED BASED ON EGLE PERMIT WRP045079 DATE ISSUED 5/14/2025.
- SEE EGLE PERMIT FOR ADDITIONAL INSTRUCTIONS AND SPECIFICATIONS.

## ABBREVIATIONS

BC = BACK OF CURB  
BM = BENCHMARK  
CB = CATCHBASIN  
CC = CENTER TO CENTER  
CJ = CONSTRUCTION JOINT  
CL = CENTERLINE  
CMP = CORRUGATED METAL PIPE  
CONC = CONCRETE  
COHR = CORRUGATED  
CSP = CORRUGATED STEEL PIPE  
DI = DUCTILE IRON PIPE  
EF = EACH FACE  
ELEC = ELECTRIC  
EL OR ELEV = ELEVATION  
EOM = EDGE OF METAL  
EOP = EDGE OF PAVEMENT  
EQ/SP = EQUALLY SPACED  
ESMT = EASEMENT  
EW = EACH WAY  
EX OR EXIST = EXISTING  
FES = FLARED END SECTION  
FF = FINISH FLOOR  
FG = FINISH GROUND  
FL = FLOW LINE  
FS = FINISH SURFACE  
FT = FEET  
GALV = GALVANIZED  
G = GUTTER  
GA = GAUGE  
HDG = HOT DIP GALVANIZED  
HDPE = HIGH DENSITY POLYETHYLENE  
HMA = HOT MIX ASPHALT  
HOR = HORIZONTAL  
HP = HIGH POINT  
HYD = HYDRANT  
INV = INVERT  
LP = LOW POINT  
OC = ON CENTER  
OH = OVERHEAD  
MH = MANHOLE  
MIN = MINIMUM  
MON = MONUMENT  
NFL = NOT FIELD LOCATED  
NTS = NOT TO SCALE  
PROP = PROPOSED  
PVC = POLYVINYL CHLORIDE  
RCP = REINFORCED CONCRETE PIPE  
ROW = RIGHT-OF-WAY  
SAN = SANITARY  
SB = SOIL BORING  
SS = STAINLESS STEEL  
STA = STATION  
STM = STORM  
SWR = SEWER  
TB = TOP AND BOTTOM  
TC = TOP OF CURB  
TOB = TOP OF BANK  
TOS = TOE OF SLOPE  
TELE = TELEPHONE  
TRW = TOP OF RETAINING WALL  
TW = TOP OF WALK  
UG = UNDERGROUND  
UNO = UNLESS NOTED OTHERWISE  
VERT = VERTICAL  
WM = WATERMAIN  
WSEL = WATER SURFACE ELEVATION

## PROPOSED SYMBOLS

○ - MANHOLE  
◻ - CATCHBASIN  
⊕ - FIRE HYDRANT  
● - WATER VALVE  
⊗ - BARRIER FREE PARKING  
■ - LIGHT POLES  
⇒ - DRAINAGE FLOW  
⊕ 600.00 LABEL - SPOT ELEVATION LABELS  
G = GUTTER  
TW = WALK  
TC = TOP OF CURB  
FS = FINISH SURFACE


## LINE TYPE LEGEND

— — — — — EXISTING ROAD CENTERLINE  
— — — — — EXISTING BRINE LINE  
— — — — — EXISTING CABLE  
— — — — — EXISTING ELECTRIC  
— — — — — EXISTING GAS MAIN  
— — — — — EXISTING WATERMAIN  
— — — — — EXISTING TELEPHONE CABLE  
— — — — — EXISTING SANITARY SEWER OR FORCEMAIN  
— — — — — EXISTING STORM SEWER  
— — — — — EXISTING DRAINS (OTHER)  
— — — — — PROPOSED UTILITY  
— — — — — EXISTING CURB & GUTTER  
— — — — — PROPOSED CURB & GUTTER  
— — — — — FENCE LINE  
— — — — — OVERHEAD UTILITY  
— — — — — RAILROAD TRACKS  
— — — — — STATION LINE  
— — — — — LIMITS OF RIGHT-OF-WAY  
— — — — — EASEMENT  
— — — — — 100 YEAR FLOODPLAIN  
— — — — — ORDINARY HIGH WATER MARK  
— — — — — SILT FENCE  
— — — — — REVERSE PAN CURB & GUTTER  
— — — — — TREE LINE  
— — — — — EXISTING CONTOURS  
— — — — — PROPOSED CONTOURS

## SYMBOL LEGEND EXISTING SYMBOLS

○ - MANHOLE  
◻ - CATCHBASIN  
⊕ - FIRE HYDRANT  
● - GAS VALVE  
⊗ - WATER VALVE  
⊕ - TELEPHONE PEDESTAL  
● - POWER POLE  
⊕ - TELEPHONE POLE  
⊕ - POWER AND TELEPHONE POLE  
⊕ - LIGHT POLE  
⊕ - GUY ANCHOR AND POLE  
⊕ - MAIL BOX  
⊕ - WATER METER  
⊕ - WELL  
⊕ - WATER MANHOLE  
⊕ - ELECTRIC MANHOLE  
⊕ - TELEPHONE MANHOLE  
⊕ - UTILITY MANHOLE  
⊕ - MONITORING WELL  
⊕ - HAND HOLE  
⊕ - TRANSFORMER  
⊕ - ELECTRICAL PEDESTAL  
⊕ - BARRIER FREE PARKING  
⊕ - SPRINKLER  
⊕ - RAILROAD SIGNAL  
⊕ - ANTENNA  
⊕ - SATELLITE DISH  
⊕ - AIR CONDITIONING UNIT  
⊕ - SOIL BORING  
⊕ - CONTROL POINT  
⊕ - BENCHMARK  
⊕ - FOUND SURVEY CORNER  
⊕ - SET 1/2" IRON ROD  
⊕ - 1/4 SECTION CORNER  
⊕ - BREAK IN LINE  
⊕ - EXISTING SIGN-1 POST  
⊕ - EXISTING SIGN-2 POST  
⊕ - STUMP  
⊕ - WETLANDS  
⊕ - PINE  
⊕ - BUSH  
⊕ - TREE

## PRELIMINARY

PROJECT DATUM			
HORIZONTAL:	STATE PLANE SOUTH MI 83 2113		
VERTICAL:	NORTH AMERICAN VERTICAL DATUM 88		
BY	MARK	REVISIONS	DATE
THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.			
<b>KIRK ROAD CROSSING TUSCOLA COUNTY, MICHIGAN</b>			
<b>CONTACTS, GENERAL NOTES, LINE TYPE LEGEND</b>			
		SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel: 989-754-4717 Fax: 989-754-4440 www.SpicerGroup.com	
DE. BY: POC/TMC	CH. BY: TMC	PROJECT NO. <b>137942SG2025</b>	
DR. BY: MJC	APP. BY: NDC		
STDS.	SHEET <b>02</b> OF <b>07</b>	<b>DR</b>	
DATE: FEBRUARY, 2026	FILE NO. <b>DR-6570-02</b>	<b>02</b>	
SCALE: NOT TO SCALE			

**EROSION CONTROL MEASURES**

KEY	SESC MEASURE	SYMBOL	WHERE USED
1	Seeding		When bare soil is exposed, temporarily or permanently, to erosive forces from wind and/or water on flat areas, mild slopes, grassed waterways and spillways, diversion ditches and dikes, borrow and stockpile areas, and spoil piles.
2	Mulch		On flat areas, slopes, grassed waterways and spillways, diversion ditches and dikes, borrow and stockpile areas, and spoil piles when areas are subject to raindrop impact, and erosive forces from wind or water.
15	Riprap		Along drain banks, shorelines, or where concentrated flows occur. Slows velocity, reduces erosion and sediment load.
16	Riprap Toe of Slope		Riprap toe of slope protection is used in areas where velocities are causing drain bank erosion and are too high to stabilize using other methods.
26	Dust Control		As a temporary measure on exposed and unstabilized areas that must be protected from wind or water erosion.
28	Stone Construction Access		At locations where construction equipment will enter and exit the drain easement and tracking of soil is anticipated.

**ROUTINE MAINTENANCE ACTIVITIES**

KEY	BEST MANAGEMENT PRACTICE	SESC PLAN
A	Debris Removal	NO
B	Sediment Removal	> 100 FEET
C	Stormwater Basin Maintenance	NO
D	Drain Crossing Maintenance	YES
E	Enclosed Drain Maintenance	NO

DETAILED DRAWINGS AND SPECIFICATIONS ARE LOCATED IN THE MICHIGAN ASSOCIATION OF COUNTY DRAIN COMMISSIONERS SOIL EROSION AND SEDIMENTATION CONTROL AUTHORIZED PUBLIC AGENCY PROCEDURES MANUAL.

SYMBOLY FOR INSERTION INTO CONSTRUCTION DRAWINGS:

- = PERMANENT MEASURE
- = TEMPORARY MEASURE

**GENERAL TIMING & SEQUENCE**

INSTALL TEMPORARY CONTROL MEASURES
SITE CLEARING
INSTALL CULVERT AND SLOPE / GRADING OF ADJACENT OPEN CHANNEL
RESTORATION
INSTALL AND ESTABLISH PERMANENT CONTROL MEASURES
REMOVE TEMPORARY CONTROL MEASURES

TUSCOLA COUNTY	
SOIL CLASS	SOIL COMPOSITION
8A	Tappan-Londo loams, 0 to 3 percent slopes
25A	Londo loam, 0 to 3 percent slopes

**MAINTENANCE PROGRAM FOR SESC MEASURES**

**GENERAL MAINTENANCE**

- CONTRACTOR SHALL MAINTAIN ALL PERMANENT SESC MEASURES FOR A PERIOD OF 1 YEAR FOLLOWING THEIR INSTALLATION.
- TEMPORARY SESC MEASURES MUST BE INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
- TEMPORARY MEASURES MUST BE MAINTAINED AND IN PLACE UNTIL AREAS ARE PERMANENTLY STABILIZED.
- PERMANENT MEASURES MUST BE INSTALLED AND MAINTAINED BY THE CONTRACTOR UNTIL FINAL COMPLETION.
- DAILY MAINTENANCE IS THE CONTRACTOR'S RESPONSIBILITY.
- TEMPORARY SESC MEASURES MUST BE REMOVED AT THE END OF THE PROJECT ONCE PERMANENT MEASURES ARE ESTABLISHED.
- TEMPORARY SESC MEASURES MUST BE INSTALLED PRIOR TO OR AT THE TIME OF EARTH DISTURBANCE.
- INSPECT WEEKLY AND AFTER EACH RAIN EVENT UNTIL VEGETATION HAS BEEN ESTABLISHED.
- IF NECESSARY, REPAIR AND RE-SEED OR REPLANT ERODED AREAS IMMEDIATELY.

**SEEDING AND MULCHING**

- SEEDING PRACTICES INCLUDE TOPSOIL (AS DIRECTED BY ENGINEER), SEED, POLYMER, AND MULCH OR MULCH MATTING (AS DIRECTED BY ENGINEER OR WHERE SHOWN ON PLANS).
- WHERE NECESSARY, APPROPRIATE MULCH MUST BE APPLIED BASED ON SLOPE AND GROWING CONDITIONS AS APPROVED BY THE PROJECT MANAGER.
- ALL SLOPES AND HIGHLY ERODIBLE AREAS MUST BE SEEDED, POLYMER APPLIED, AND MULCHED AS NEEDED WHEN CONSTRUCTION ACTIVITY IS NOT TAKING PLACE.
- SEED AND MULCH IS TO BE INSPECTED DAILY FOLLOWING EACH RAIN EVENT TO DETERMINE IF CONCENTRATED FLOWS ARE PRESENT.
- IN THE EVENT THAT SEED AND MULCH ARE REMOVED BY ERODIVE RUNOFF, REPAIRS ARE TO BE MADE IMMEDIATELY.
- ALL AREAS DURING CONSTRUCTION MUST BE PERMANENTLY STABILIZED WITHIN 72 HOURS OF FINAL GRADE (GRADE LISTED ON PLAN).

**STORM DRAIN INLET PROTECTION**

- INSPECT ROUTINELY AND FOLLOWING A PRECIPITATION EVENT THAT RESULTS IN RUNOFF UNTIL SEDIMENT FILTER IS REMOVED.
- ROUTINELY REMOVE SEDIMENT ACCUMULATION.
- REPAIR AND REPLACE CONTROL MEASURES AS NEEDED.

**SILT FENCE**

- SILT FENCE IS TO BE TRENCHED IN NO LESS THAN 6 INCHES BELOW THE GROUND SURFACE.
- INSPECT SILT FENCE DAILY AND IMMEDIATELY FOLLOWING EACH RAINFALL.
- REPAIR WHEN SILT FENCE IS SAGGING OR HAS BEEN REMOVED/TORN DOWN.
- WHEN SILT COLLECTS TO HALF THE HEIGHT OF THE FENCE, ALL SILT IS TO BE REMOVED AND FENCE REPAIRED.
- REMOVE SILT FENCE WHEN PERMANENT SESC MEASURES ARE IN PLACE AND VEGETATION IS ESTABLISHED.

**STABILIZED CONSTRUCTION ACCESS**

- INSPECT WEEKLY AND AFTER EACH RAINFALL.
- WHEN CONSTRUCTION ACCESS IS NO LONGER EFFECTIVE, SCRAPE THE TOP LAYER AND ADD 2" OF AGGREGATE.

**TURBIDITY CURTAIN**

- INSPECT CURTAIN DAILY AND MAKE REQUIRED ADJUSTMENTS TO ENSURE THAT ANCHORS, TIE-DOWNS, OR OTHER MECHANISMS ARE SUFFICIENTLY ISOLATING CONSTRUCTION ACTIVITIES FROM THE WATERBODY.

**COMPLIANCE WITH PART 91 OF PA 451**

- RESPOND IMMEDIATELY TO STORMWATER OPERATOR AND/OR SOIL EROSION AND SEDIMENTATION CONTROL INSPECTOR'S CONCERNS. MAKE CORRECTIVE MEASURES AS REQUIRED IMMEDIATELY AS DETAILED BY THE APPROVED APA MANUAL(S).

**SOIL EROSION AND SEDIMENTATION CONTROL NOTES**

1. INSTALL AND MAINTAIN ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE APPROVED PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION OR MASS GRADING. ALL SESC MEASURES MUST BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE KIRK ROAD CROSSING SESC PLAN AND PROJECT SPECIFICATIONS.
2. SOIL EROSION CONTROL MEASURES MUST BE INSPECTED BY A STATE CERTIFIED INSPECTOR AFFILIATED WITH THE COUNTY PUBLIC WORKS / COUNTY DRAIN COMMISSIONER'S OFFICE PRIOR TO COMMENCEMENT OF CONSTRUCTION OR MASS GRADING.
3. DAILY INSPECTION AND MAINTENANCE MUST BE MADE TO ENSURE ALL EROSION CONTROL MEASURES ARE FUNCTIONING PROPERLY AND INTACT. NECESSARY REPAIRS MUST BE PERFORMED WITHIN 24 HOURS.
4. ADDITIONAL SOIL EROSION CONTROL MEASURES MUST BE PROVIDED THROUGHOUT CONSTRUCTION ACTIVITY AS NEEDED AND DETERMINED BY THE AP/ENGINEER. THE SOIL EROSION AND SEDIMENTATION CONTROL PLAN IS TO BE AMENDED TO INCLUDE ADDITIONAL EROSION CONTROL MEASURES IMPLEMENTED ON-SITE.
5. SEDIMENT FROM WORK ON THIS SITE IS TO BE CONTAINED ON THE SITE AND IS NOT TO BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MANMADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, PONDS, AND WETLANDS.
6. ALL VISUAL TRACKING INCLUDING MUD, DIRT, AND DEBRIS TRACKED ONTO EXISTING ROADWAYS MUST BE IMMEDIATELY REMOVED NO LESS THAN ON A DAILY BASIS BY SCRAPING AND SWEEPING AND/OR AS DIRECTED BY THE ENGINEER OR APA.
7. DUST CONTROL MUST BE EXERCISED AT ALL TIMES DURING THE PROJECT AND AS DIRECTED BY THE ENGINEER OR APA. APPLY DUST SUPPRESSANT TO SURFACES USING A PRESSURE TYPE WATER DISTRIBUTOR TRUCK EQUIPPED WITH A SPRAY SYSTEM.
8. ALL PERMANENT SOIL EROSION CONTROL MEASURES MUST BE IN PLACE WITHIN 24 HOURS OF FINAL GRADING (GRADE LISTED ON PLANS). THIS INCLUDES ALL VEGETATIVE STABILIZATION. VEGETATIVE STABILIZATION WILL BE ONGOING. TOPSOIL, FERTILIZER, SEED, POLYMER, SILT STOP (OR EQUAL), MULCH AND/OR RIPRAP MUST BE IN PLACE BEFORE PROCEEDING TO THE NEXT WORK AREA. ALL TEMPORARY MEASURES SUCH AS SILT FENCE AND INLET PROTECTION BAGS ARE TO BE REMOVED ONCE PERMANENT SESC MEASURES ARE IN PLACE AND VEGETATION IS ESTABLISHED. REMOVAL OF TEMPORARY MEASURES, FOLLOWING ACCEPTANCE OF THE PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR.
9. PRIOR TO WINTER CONSTRUCTION, ALL EXPOSED SOILS MUST BE STABILIZED WITH A COMBINATION OF SILT STOP 705 POLYMER BLEND, NORTH AMERICAN GREEN EROSION CONTROL BLANKETS, MULCH, OR OTHER APPROVED METHOD IF VEGETATION COULD NOT BE ESTABLISHED DURING THE GROWING SEASON AS DETERMINED BY THE APA OR ENGINEER.
10. WORK AREAS MUST BE STABILIZED WITH TOPSOIL, SEED, FERTILIZER, AND MULCH WITHIN 24 HOURS FOLLOWING CONSTRUCTION. VEGETATIVE STABILIZATION IS ONGOING THROUGHOUT THE PROJECT.
11. ALL SOIL EROSION CONTROL MEASURES MUST BE INSPECTED DAILY. THE STORM WATER OPERATOR IS TO MAKE A WEEKLY INSPECTION OR INSPECT AFTER EACH RAIN EVENT THAT RESULTED IN A DISCHARGE TO ENSURE PROPER MAINTENANCE OF THE SOIL EROSION CONTROL MEASURES. ANY DEFICIENCIES OR REPAIRS TO SOIL EROSION CONTROL MEASURES MUST BE CORRECTED IMMEDIATELY. INLET PROTECTION MEASURES, DANDY BAG II (OR EQUAL), FLEX STORM (OR EQUAL), MUST BE INSTALLED IN CATCHBASINS BEFORE ANY STORMWATER RUNOFF IS ALLOWED TO ENTER THE TOP OF THE STRUCTURES. THE SILT AND SEDIMENT MUST BE REMOVED FROM INLET PROTECTION MEASURES AS NEEDED TO ENSURE PROPER FUNCTION OF THE BAGS.
12. THE NEED FOR TEMPORARY MEASURES SUCH AS SILT FENCE AND DANDY BAG II (OR EQUAL), FLEX STORM (OR EQUAL) FOR EXISTING OR NEW CATCHBASINS MUST BE ASSESSED ON A DAILY BASIS. PIPES ARE TO BE CAPPED AT THE END OF EACH WORKDAY. AT NO TIME SHOULD SEDIMENT COLLECT IN A CATCHBASIN OR AN OFF-SITE AREA. TEMPORARY MEASURES MUST BE REMOVED ONCE PERMANENT MEASURES ARE IN PLACE AND VEGETATION IS ESTABLISHED.
13. IF DEWATERING IS NECESSARY, CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE ENGINEER OR APA FOR APPROVAL.
14. THE NOTICE OF COVERAGE (IF REQUIRED), SOIL EROSION AND SEDIMENTATION CONTROL PLAN, AND STORMWATER OPERATOR LOGS MUST BE LOCATED ON SITE AT ALL TIMES.
15. ALL RESTORATION TO OCCUR WITHIN 24 HOURS OF FINAL GRADING.

CONTINUED MAINTENANCE PROGRAM FOR PERMANENT SESC MEASURES	
RESPONSIBLE PARTY:	TUSCOLA COUNTY ROAD COMMISSION
PERMANENT SESC MEASURE	MAINTENANCE PROCEDURE
SEEDING:	REPAIR BARE AREAS, APPLYING SUPPLEMENTAL SEED, MULCH, AND WATER AS NEEDED. MOWING CAN BE USED PERIODICALLY TO DISCOURAGE WEEDS.
RIPRAP:	REPAIR AREAS WHERE ROCK HAS BEEN DISPLACED. EXPAND RIPRAP AREA IF NEEDED.

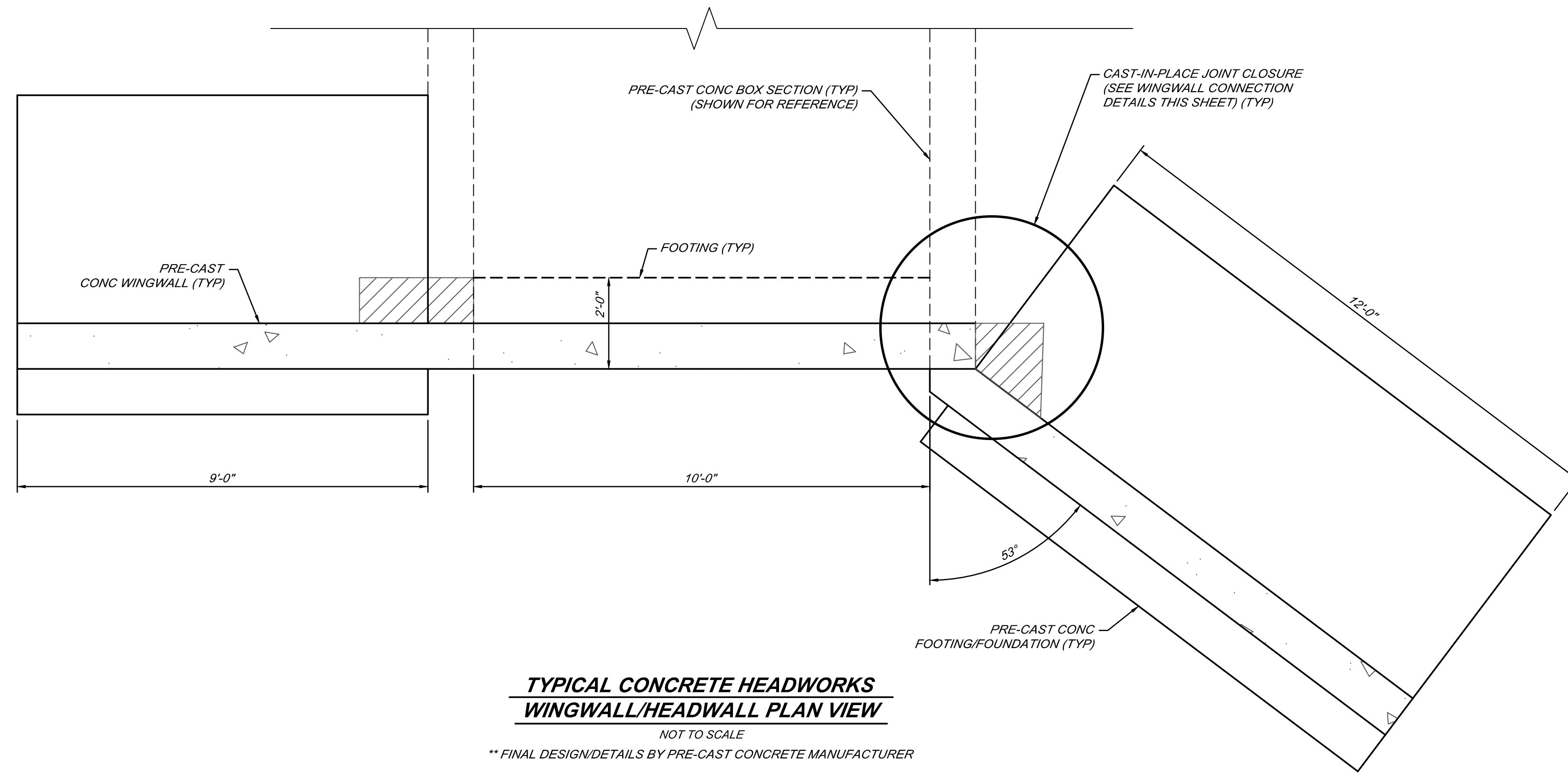
**PRELIMINARY**

BY	MARK	REVISIONS	DATE
THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.			
<b>KIRK ROAD CROSSING TUSCOLA COUNTY, MICHIGAN</b>			
<b>SOIL EROSION AND SEDIMENTATION CONTROL PLAN</b>			
			SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel: 989-754-4717 Fax: 989-754-4440 www.SpicerGroup.com
DE. BY:	POC/TMC	CH. BY:	TMC
DR. BY:	MJC	APP. BY:	NDG
			PROJECT NO. <b>137942SG2025</b>
STDS.	SHEET <b>03</b> OF <b>07</b>		<b>DR 03</b>
DATE	FEBRUARY, 2026		
SCALE	NOT TO SCALE		FILE NO. <b>DR-6570-03</b>

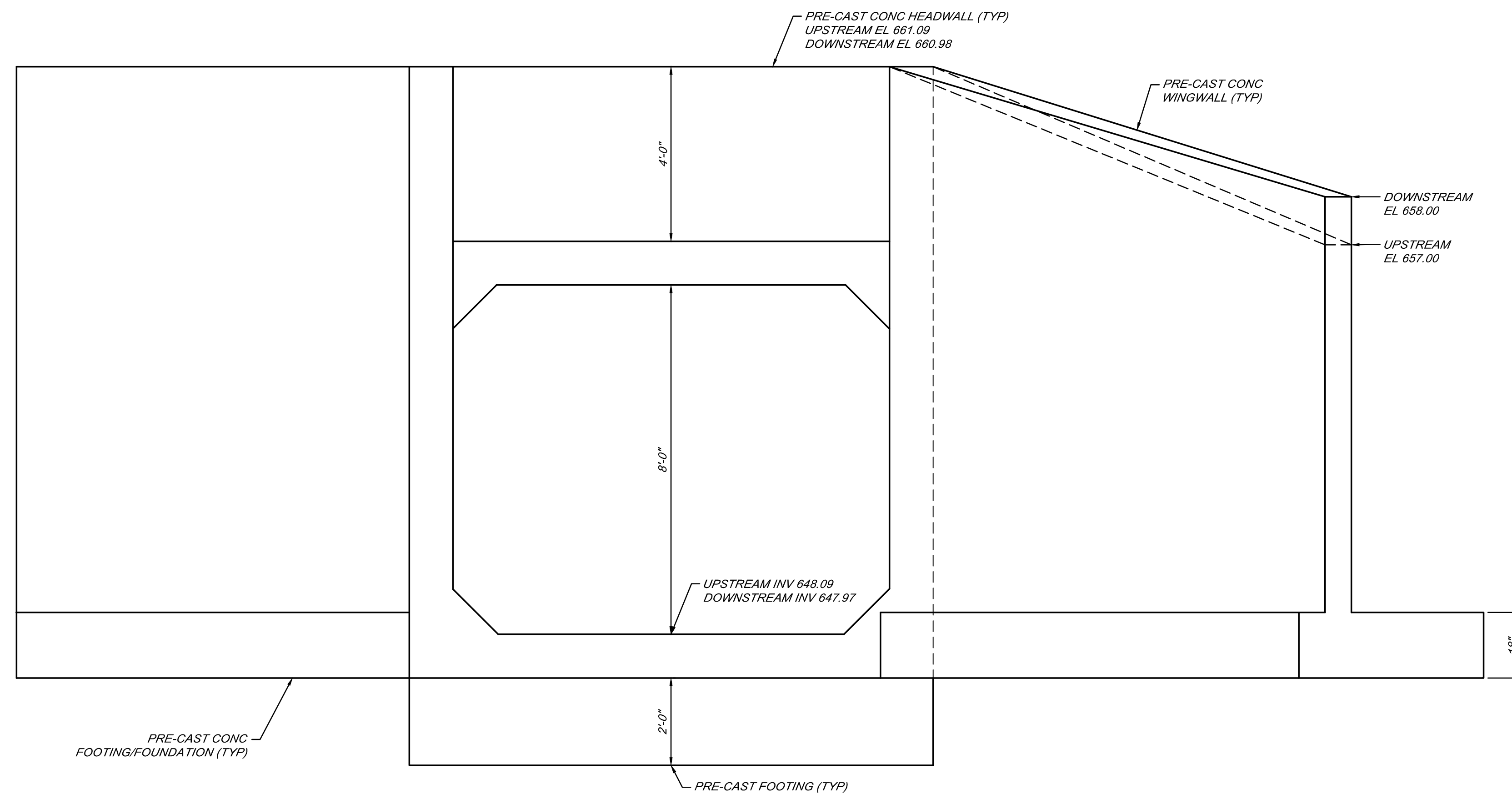
**SOIL EROSION & SEDIMENTATION CONTROL PLAN**

IN COMPLIANCE WITH SECTION 323.1703 OF PART 91, SOIL EROSION AND SEDIMENTATION CONTROL, OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT, 1994 PA 451, AS AMENDED.

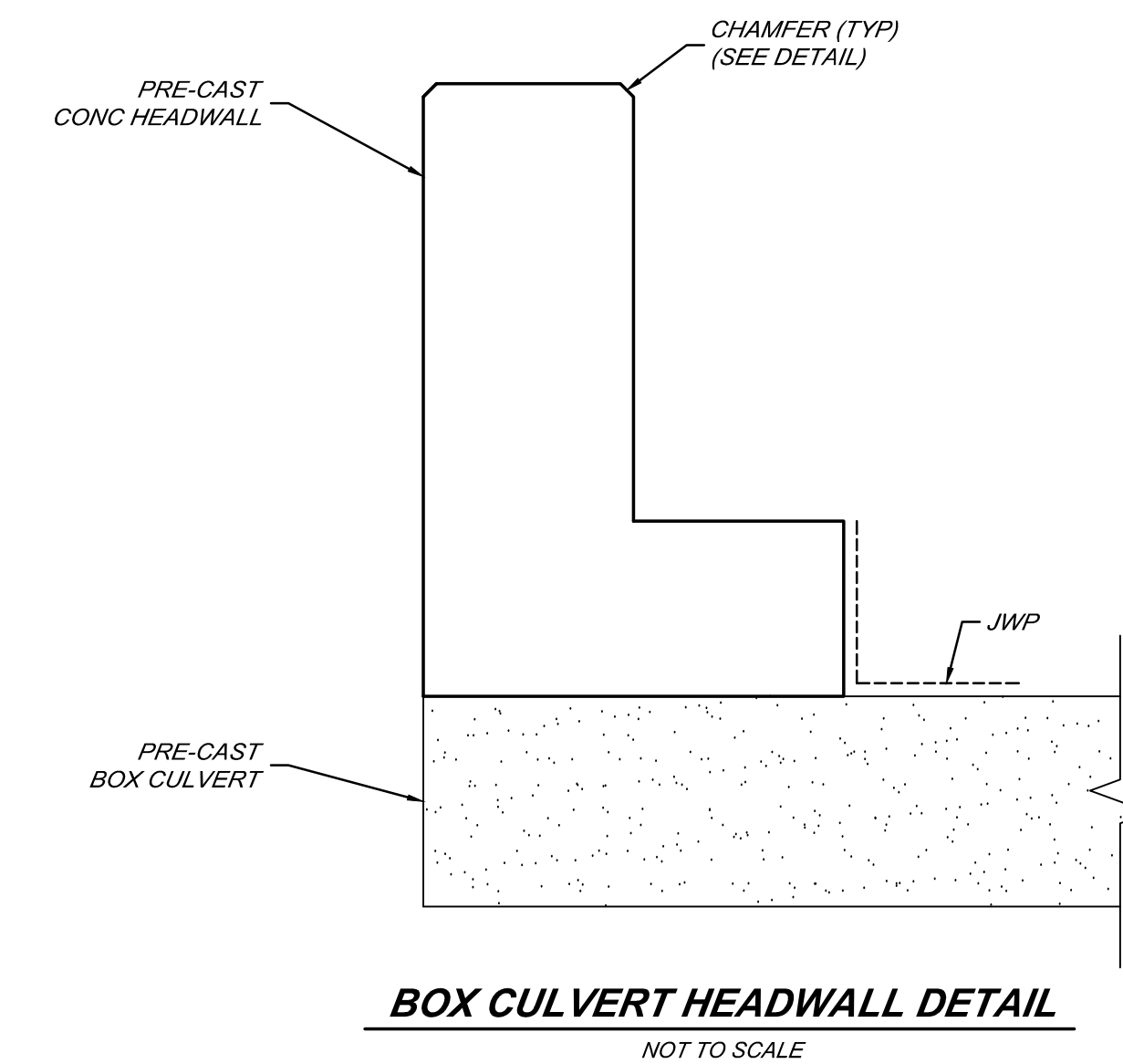




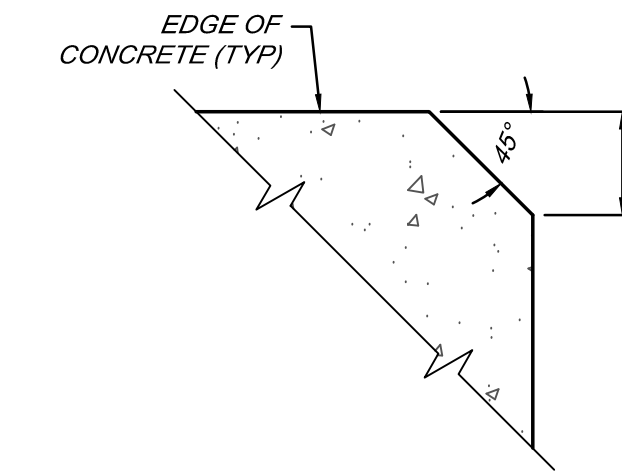
**TYPICAL CONCRETE HEADWORKS  
WINGWALL/HEADWALL PLAN VIEW**  
NOT TO SCALE  
\*\* FINAL DESIGN/DETAILS BY PRE-CAST CONCRETE MANUFACTURER



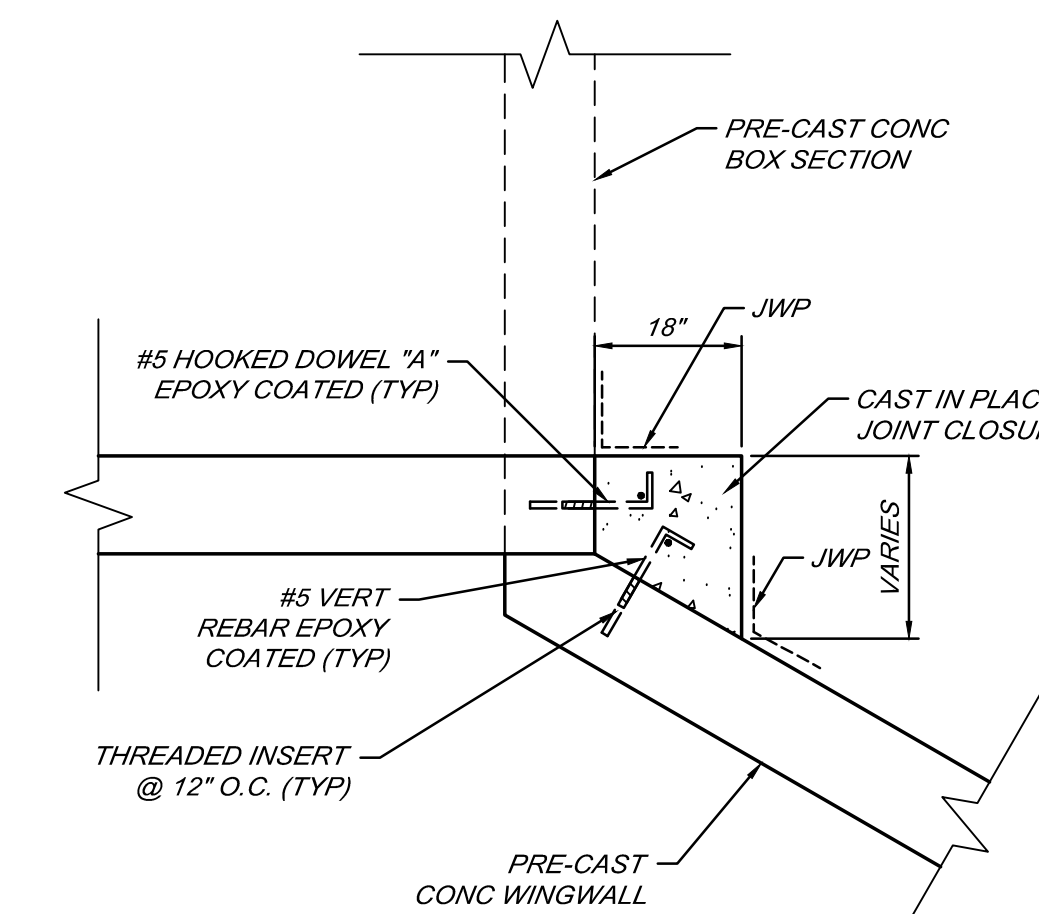
**TYPICAL CONCRETE HEADWORKS  
WINGWALL/HEADWALL ELEVATION VIEW**  
NOT TO SCALE  
\*\* FINAL DESIGN/DETAILS BY PRE-CAST CONCRETE MANUFACTURER



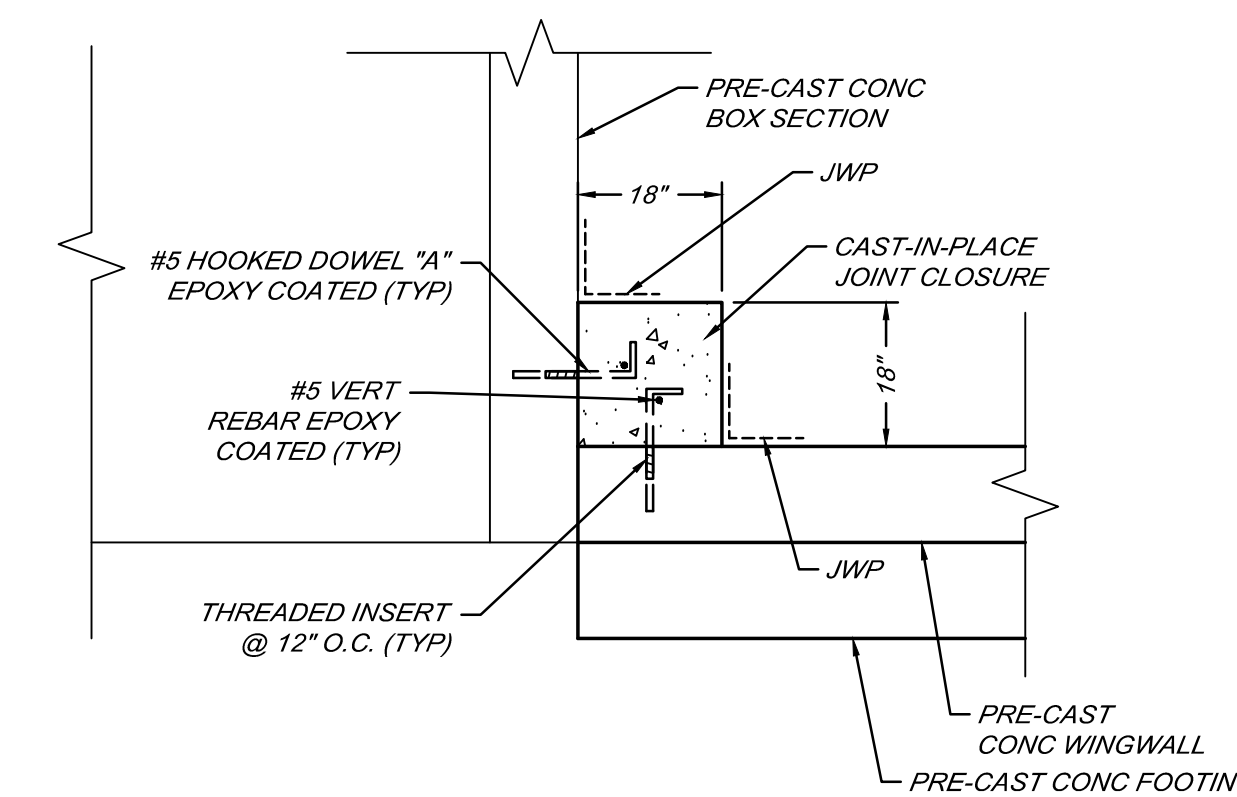
**BOX CULVERT HEADWALL DETAIL**  
NOT TO SCALE



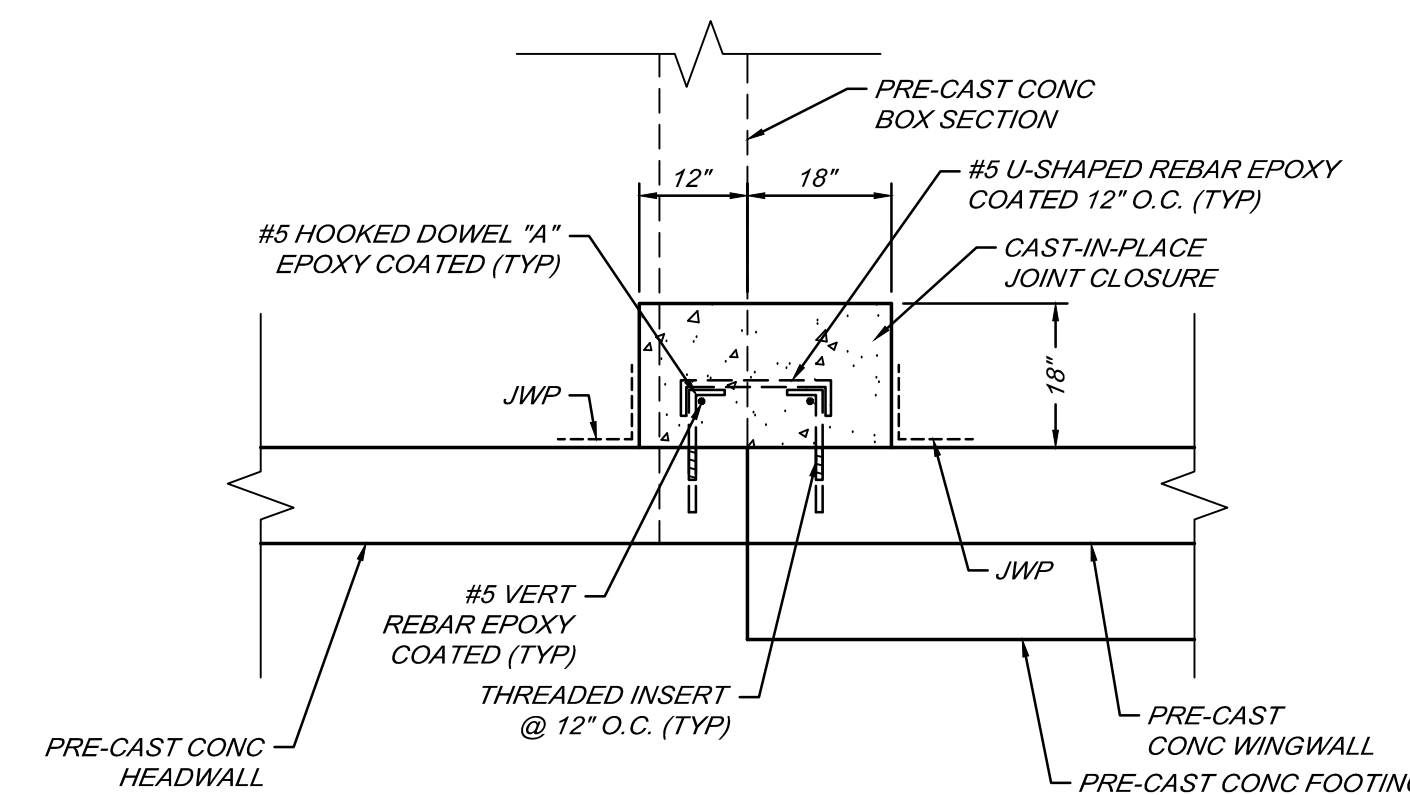
**TYPICAL CHAMFER DETAIL**  
NOT TO SCALE  
REQUIRED AT ALL EXPOSED CORNERS



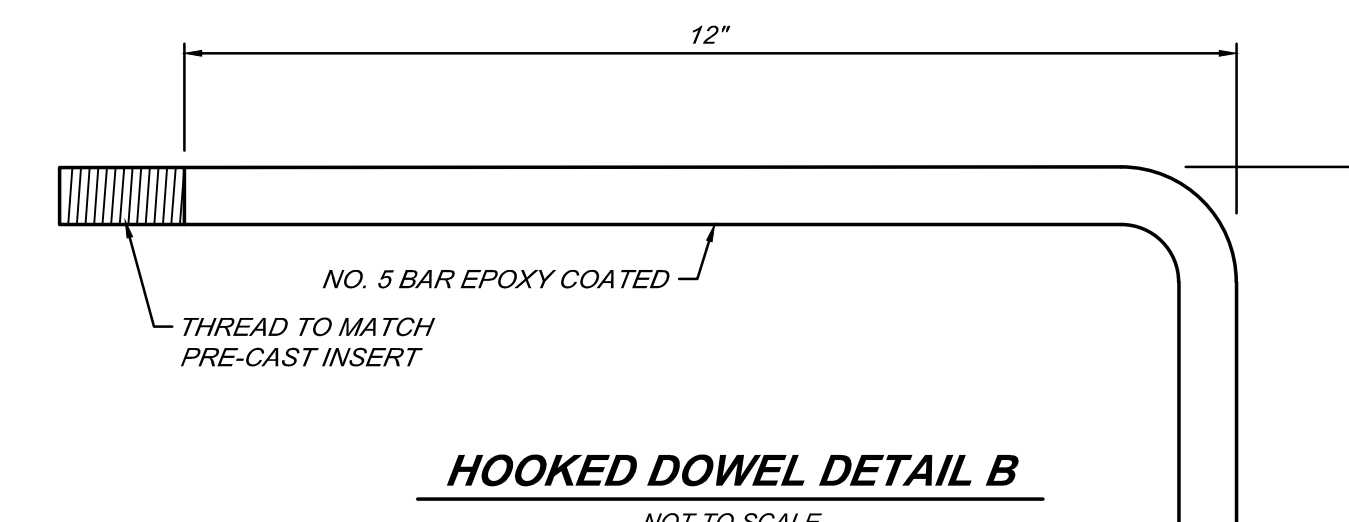
**WINGWALL TO BOX CULVERT  
CONNECTION DETAIL**  
NOT TO SCALE



**WINGWALL TO BOX CULVERT  
CONNECTION DETAIL**  
NOT TO SCALE



**WINGWALL TO HEADWALL  
CONNECTION DETAIL**  
NOT TO SCALE



**HOOKED DOWEL DETAIL B**  
NOT TO SCALE

**GENERAL NOTES**

- JWP DENOTES JOINT WATERPROOFING
- NS DENOTES NEAR SIDE
- FS DENOTES FAR SIDE
- ES DENOTES EACH SIDE
- FOR BEVEL AND MOLDING DETAILS, SEE STANDARD PLAN B-103 SERIES

**PRELIMINARY**

BY	MARK	REVISIONS	DATE
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<b>KIRK ROAD CROSSING TUSCOLA COUNTY, MICHIGAN</b>			
<b>KIRK ROAD CROSSING STRUCTURE DETAILS</b>			
<b>Spicer Group</b>		SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel: 989-754-4717 Fax: 989-754-4440 www.SpicerGroup.com	
DE. BY: POC/TMC	CH. BY: TMC	PROJECT NO. 137942SG2025	
DR. BY: MJC	APP. BY: NDC		
STDS.	SHEET 05 OF 07	<b>DR</b>	
DATE: MARCH, 2026	FILE NO. DR-6570-05	<b>05</b>	
SCALE: AS SHOWN			

