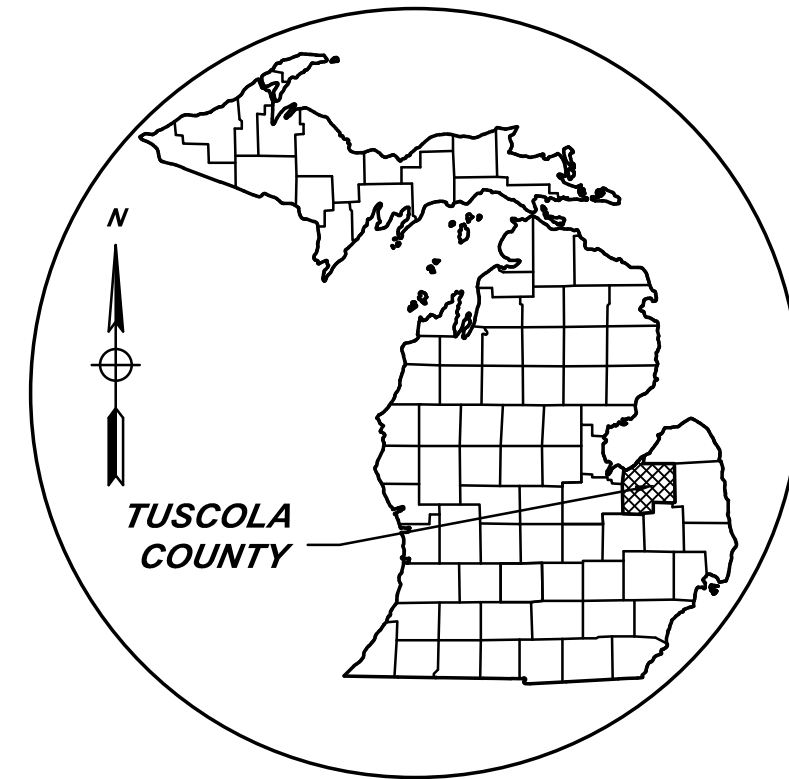
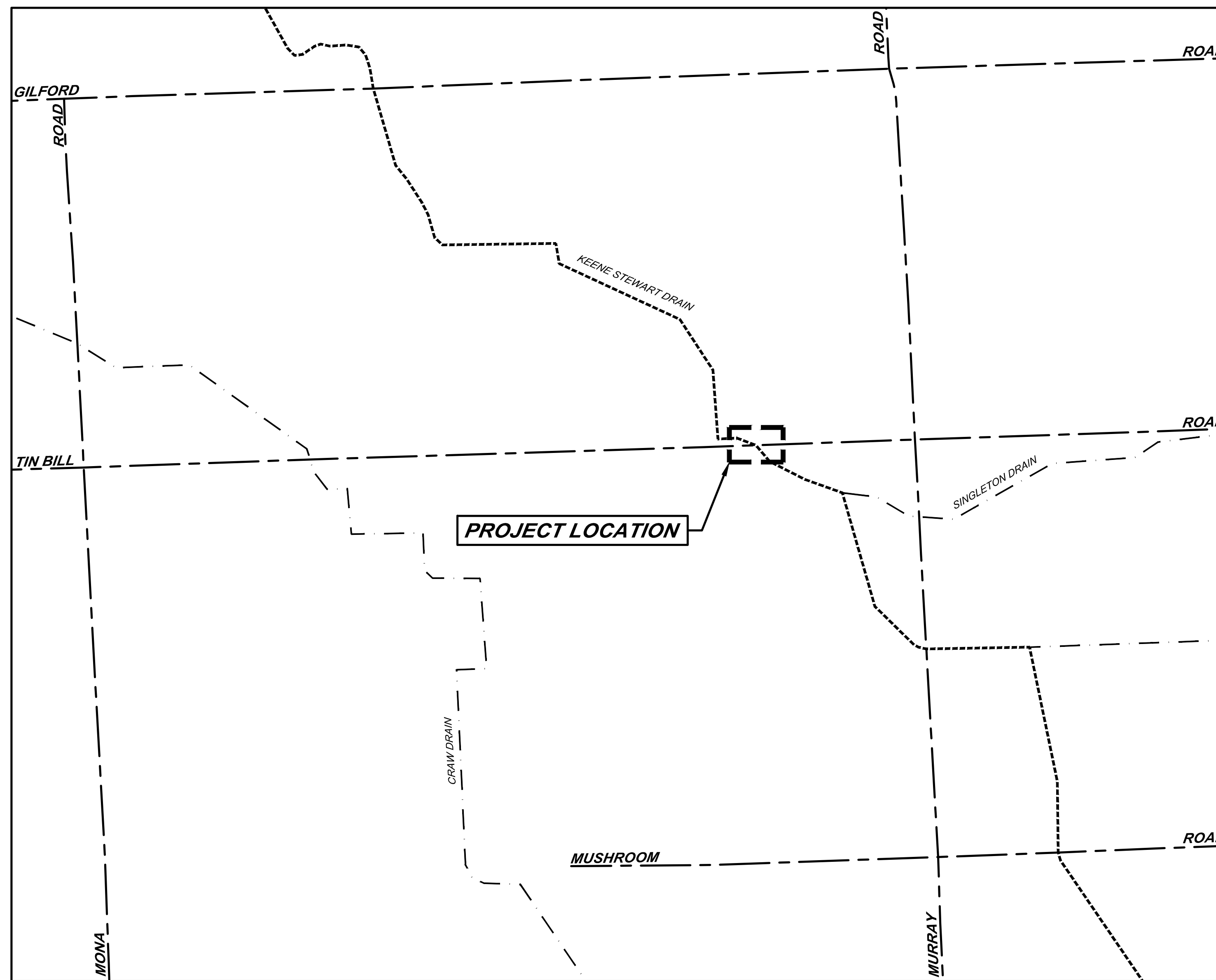


TIN BILL ROAD CROSSING

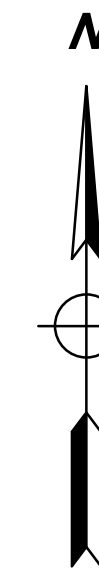
TUSCOLA COUNTY ROAD COMMISSION



AREA MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



SECTION 05, T12N-R10E,
WELLS TOWNSHIP,
TUSCOLA COUNTY, MICHIGAN

PLAN INDEX

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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.

**TIN BILL 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	DR
DATE: FEBRUARY, 2026	FILE NO.	01
SCALE: NOT TO SCALE	DR-6571-01	

P:\proj\2025\137942SG2025_Tuscola_CRC_2025_AN_Design_Servicing\Tin_Bill_Road_Crossing\over_Keene_Stewart_Drain\CADD\GIS\Map\DR-6571-01_CS_107ES_8552.dwg, 2/3/2026 10:28:38 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

<p>TUSCOLA COUNTY ROAD COMMISSION ATT: BRENT DANKERT 1733 S MERTZ ROAD CARO, MI 48723 PHONE: (989) 673-2128</p> <p>SPICER GROUP ATT: TED M CHAMPAGNE, P.E. 230 S WASHINGTON AVENUE SAGINAW, MI 48607 PHONE: (989) 295-5029</p> <p>DTE ENERGY ATT: SARA KIPP 1100 CLARK ROAD LAFAYETTE, MI 48449 PHONE: (800) 477-4747</p> <p>BRIGHTSPEED ATT: WADE MILLER 1120 S TRYON STREET, 7TH FLOOR CHARLOTTE, NC 28203 PHONE: (989) 277-7943 E-MAIL: WADE.MILLER@BRIGHTSPEED.COM</p>	<p>OWNER</p> <p>ENGINEER</p> <p>ELECTRICAL</p> <p>FIBER</p>
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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 WRP044532 DATE ISSUED 3/21/2025.
- 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
● - 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
<p>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 PRESENT 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.</p>			
<p>TIN BILL ROAD CROSSING TUSCOLA COUNTY, MICHIGAN</p>			
<p>CONTACTS, GENERAL NOTES, LINE TYPE LEGEND</p>			
		<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel: 989-754-4717 Fax: 989-754-4440 www.SpicerGroup.com</p>	
DE. BY:	PCC/TMC	CH. BY:	TMC
DR. BY:	MJC	APP. BY:	NDC
		PROJECT NO. 137942SG2025	
STDS.	SHEET 02 OF 07		DR 02
DATE	FEBRUARY, 2026		
SCALE	NOT TO SCALE		FILE NO. DR-6571-02

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.

TUSCOLA COUNTY	
SOIL CLASS	SOIL COMPOSITION
13A	Wixom-Belleville loamy fine sands, 0 to 3 percent slopes

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.

SYMBOLGY 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

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 TIN BILL 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.

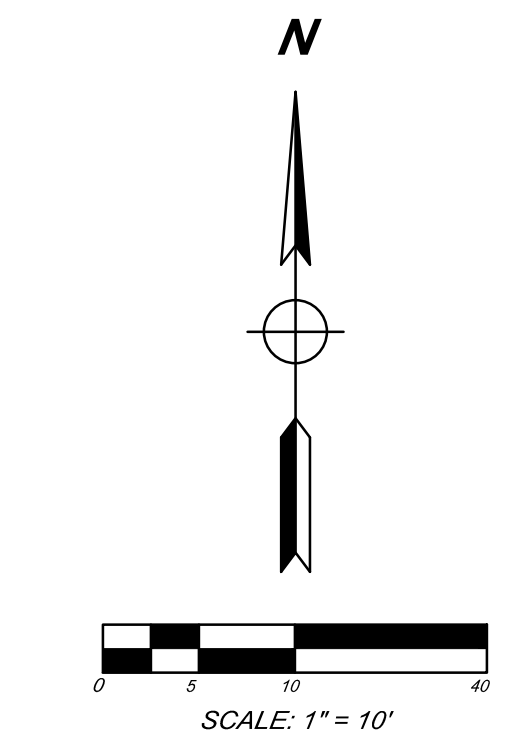
CONTINUED MAINTENANCE PROGRAM FOR PERMANENT SESC MEASURES	
RESPONSIBLE PARTY:	TUSCOLA COUNTY ROAD COMMISSION
PERMANENT SESC MEASURE	MAINTENANCE PROCEDURE
SEEDING:	REPAIR BARE AREAS, APPLYING SUPPLEMENTAL SEED, MULCH, AND WATER AS NEEDED. MOWING CAN BE USED PERIODICALLY TO DISCOURAGE WEEDS.
RIPRAP:	REPAIR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

PRELIMINARY

BY	MARK	REVISIONS	DATE
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TIN BILL ROAD CROSSING TUSCOLA COUNTY, MICHIGAN			
SOIL EROSION AND SEDIMENTATION CONTROL PLAN			
		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. 137942SG2025
STDS.	SHEET 03 OF 07		DR 03
DATE	FEBRUARY, 2026		
SCALE	NOT TO SCALE		FILE NO. DR-6571-03

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.

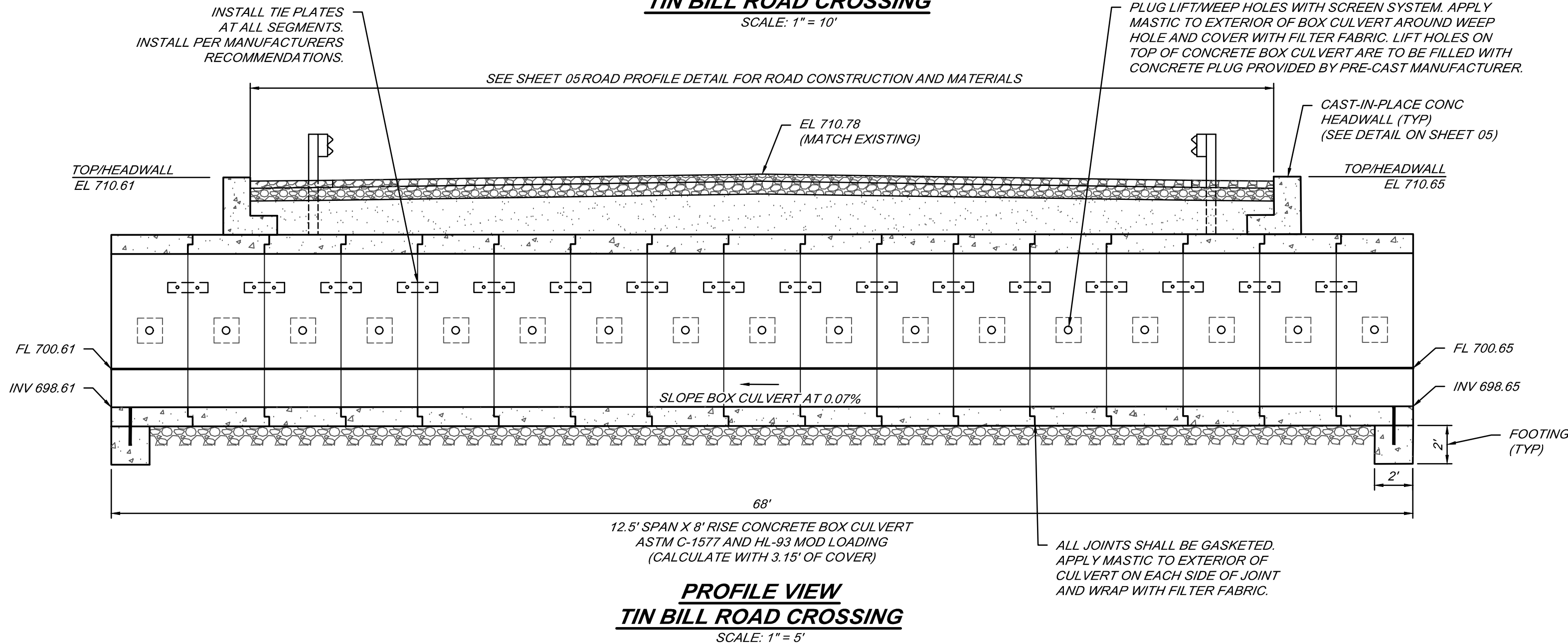


SECTION 05, T12N-R10E,
WELLS TOWNSHIP,
TUSCOLA COUNTY, MICHIGAN

LEGEND
 LIMITS OF GRAVEL ROAD
 REMOVAL AND RESTORATION

QUANTITIES THIS SHEET		
ITEM	UNIT	QTY
12.5' SPAN X 8' RISE CONC BOX CULV	LIN FT	68
12" AGGREGATE BASE	SQ YD	
23A AGGREGATE SHOULDER	SQ YD	
MISC RIPRAP	SQ YD	
SEEDING AND MULCH	LUMP SUM	
CLEANUP AND RESTORATION	LUMP SUM	
RIPRAP SLOPE PROTECTION	SQ YD	
SITE CLEARING	LUMP SUM	
REMOVAL OF EXISTING STRUCTURE	LUMP SUM	

**PLAN VIEW
TIN BILL ROAD CROSSING**
SCALE: 1" = 10'



**PROFILE VIEW
TIN BILL ROAD CROSSING**
SCALE: 1" = 5'

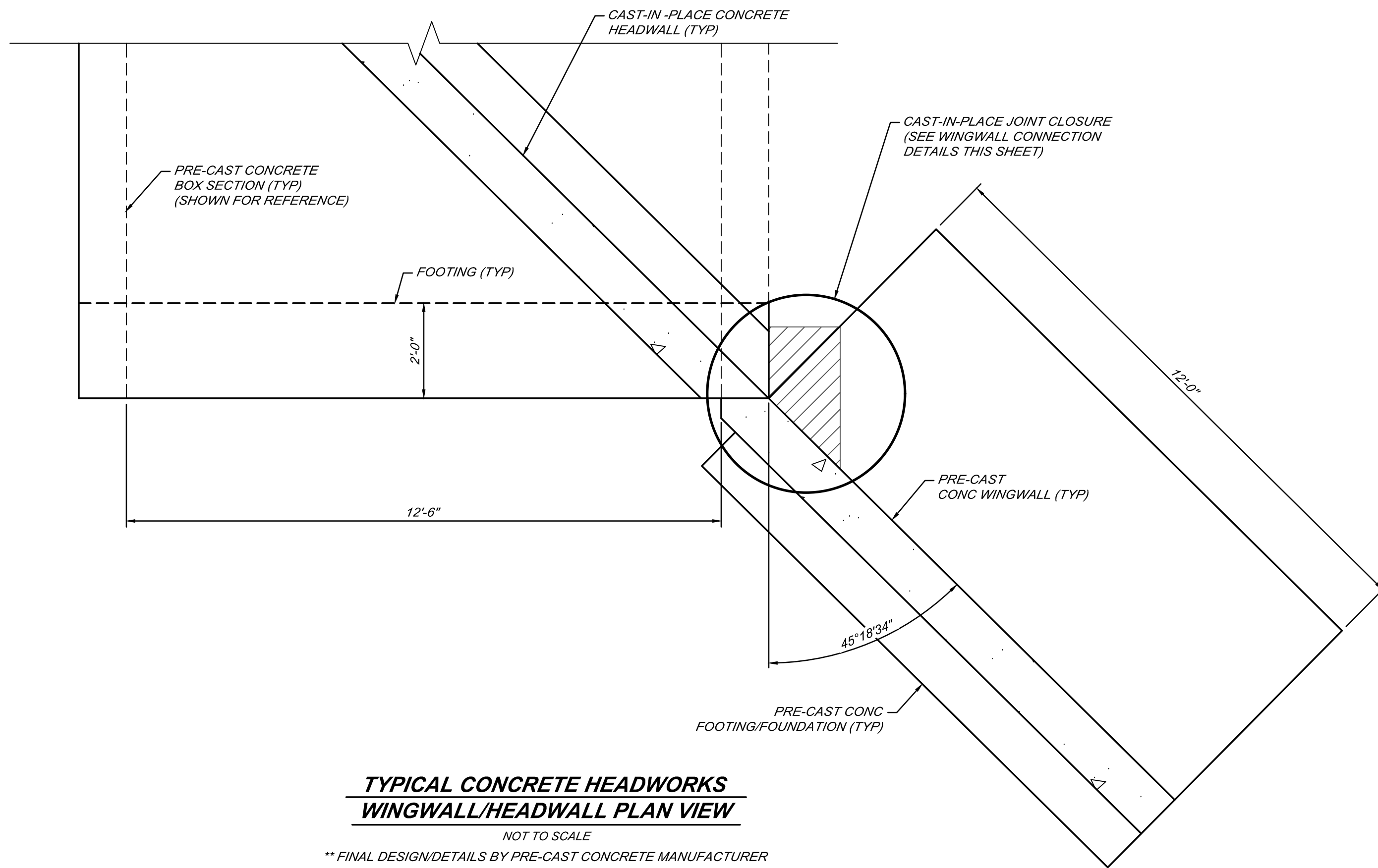
PRELIMINARY

BY	MARK	REVISIONS	DATE
<p>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.</p>			
<p>TIN BILL ROAD CROSSING TUSCOLA COUNTY, MICHIGAN</p>			
<p>PLAN AND PROFILE KEENE STEWART DRAIN TIN BILL ROAD CROSSING</p>			
		<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel: 989-754-4717 Fax: 989-754-4440 www.SpicerGroup.com</p>	
DE. BY:	POC/TMC	CH. BY:	TMC
DR. BY:	MJC	APP. BY:	NDC
		PROJECT NO. 137942SG2025	
STDS.		SHEET 04 OF 07	DR 04
DATE	MARCH, 2026	FILE NO.	
SCALE	AS SHOWN		

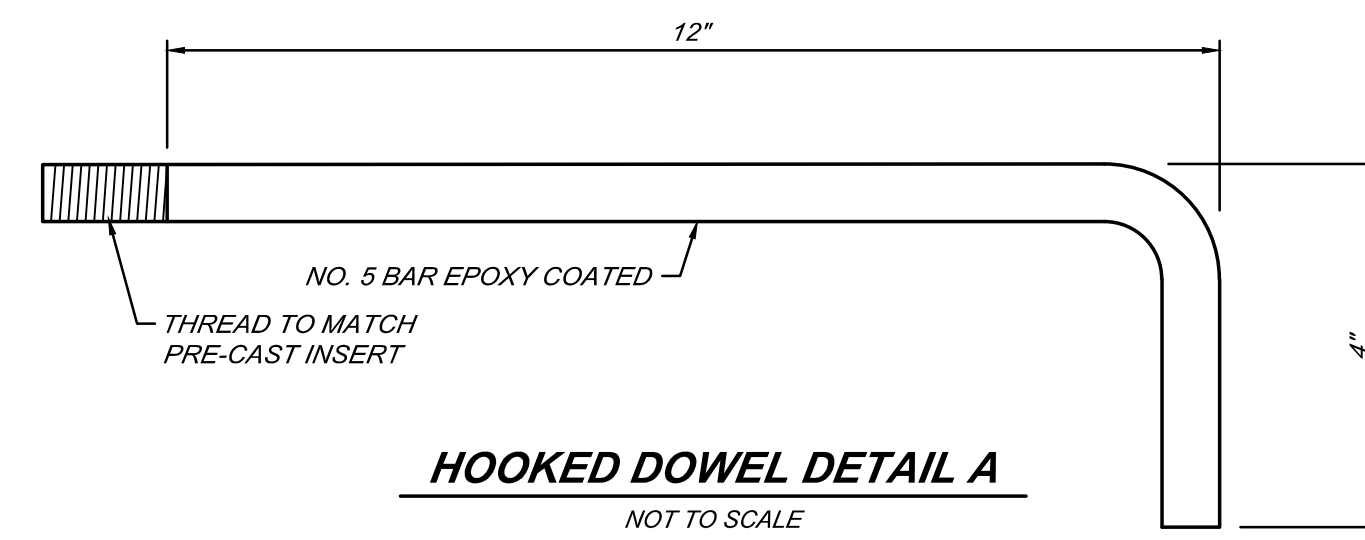
BENCHMARKS
 BM 200 - SET GEAR SPIKE IN SOUTH FACE OF POWER POLE BEING ±30' NORTH OF CENTERLINE OF TIN BILL ROAD AND ±250' EAST OF CENTERLINE OF DRAIN CROSSING.
 EL 711.82

RIGHT-OF-WAY
 KEENE STEWART DRAIN - DRAIN RIGHT-OF-WAY IS 60' WIDE ON EACH SIDE OF CENTERLINE OF DRAIN.

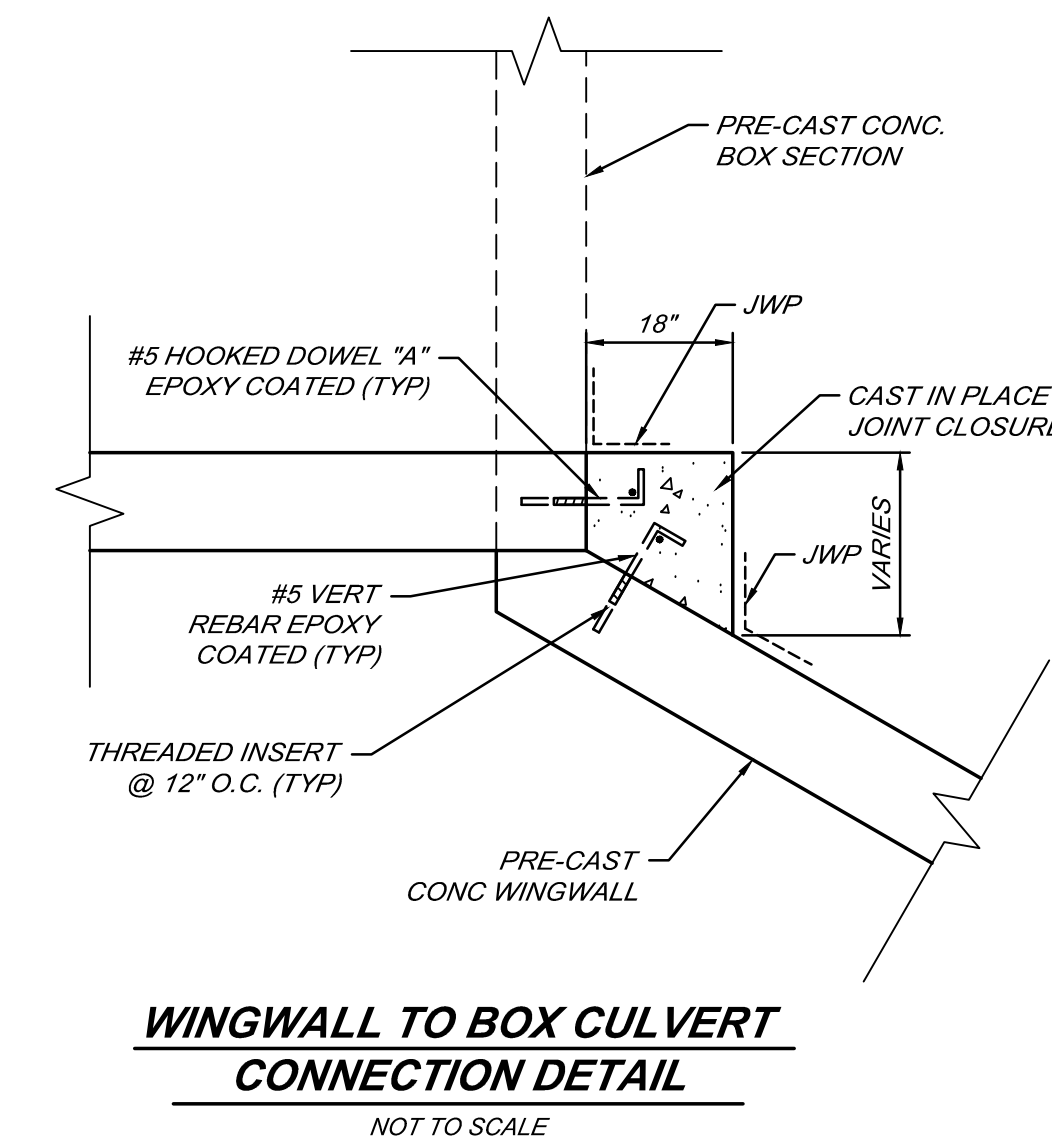
P:\Projects\2025\137942SG2025_Tuscola_CRC_2025_AN_Designs_Services\Tin_Bill_Road_Crossing\over_Keene_Stewart_Drain\CAD\GIS\Map\DR-6571-04.dwg, PP_0wg, 3/10/2025 10:15:16 AM, jstahlic
 1/17/2025



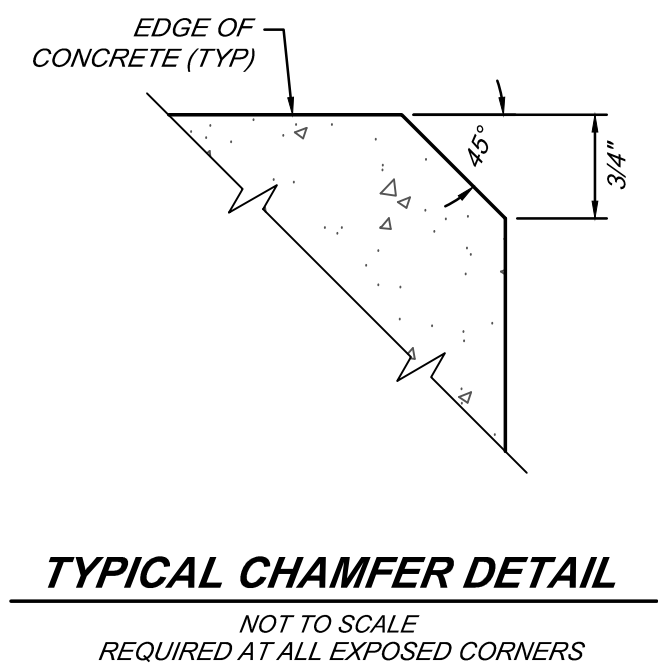
**TYPICAL CONCRETE HEADWORKS
WINGWALL/HEADWALL PLAN VIEW**
NOT TO SCALE
** FINAL DESIGN/DETAILS BY PRE-CAST CONCRETE MANUFACTURER



HOOKED DOWEL DETAIL A
NOT TO SCALE

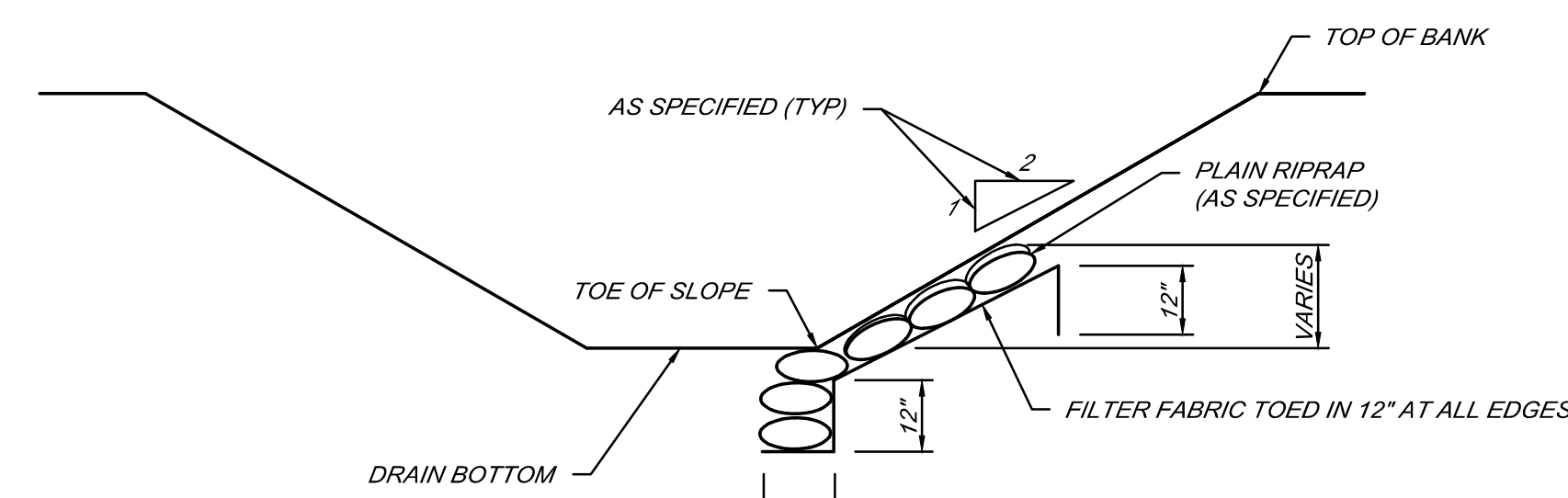


**WINGWALL TO BOX CULVERT
CONNECTION DETAIL**
NOT TO SCALE

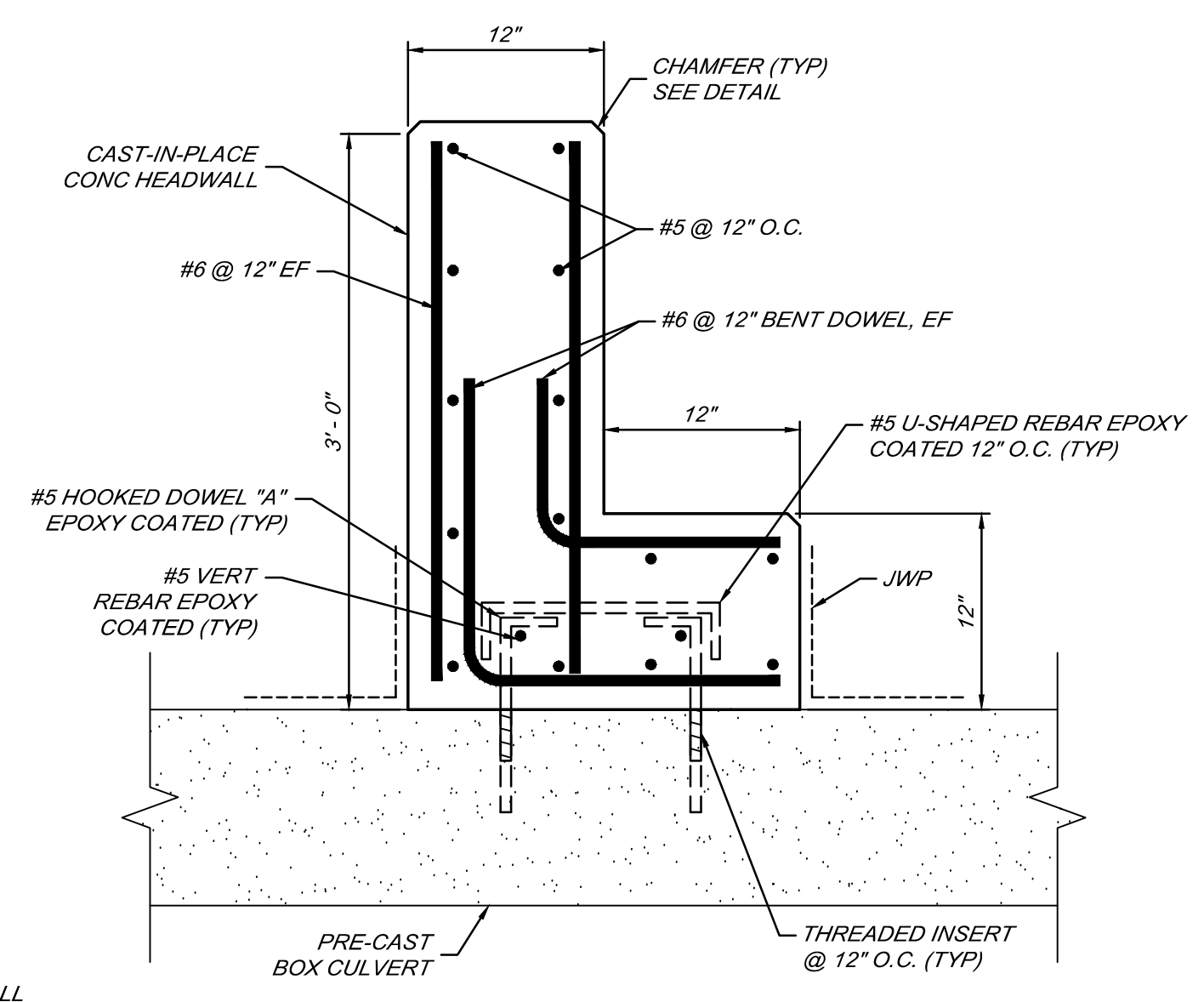


TYPICAL CHAMFER DETAIL
NOT TO SCALE
REQUIRED AT ALL EXPOSED CORNERS

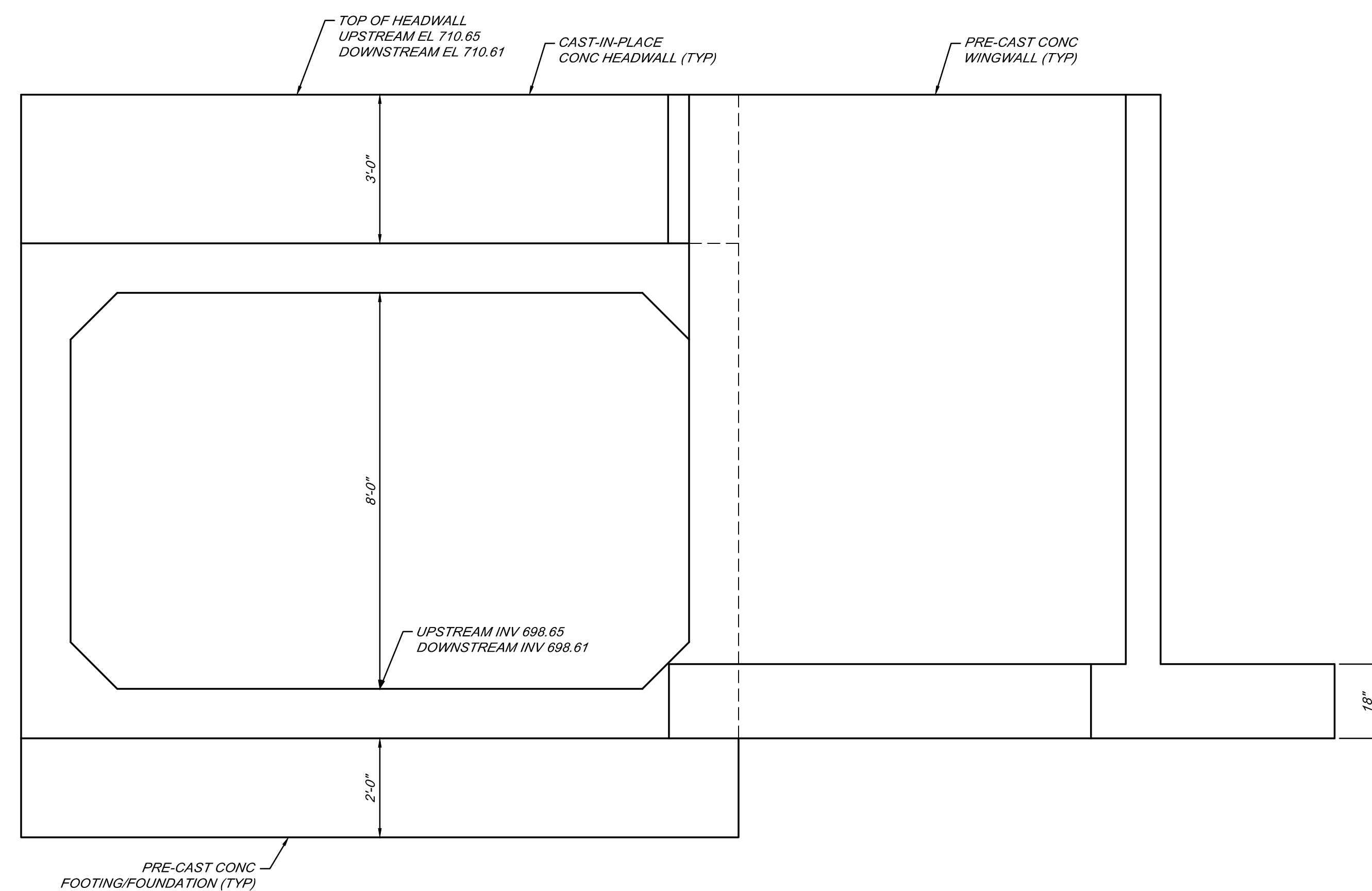
GENERAL NOTES
JWP DENOTES JOINT WATERPROOFING
NS DENOTES NEAR SIDE
FS DENOTES FAR SIDE
ES DENOTES EACH SIDE
FOR BEVEL AND MOLDING DETAILS, SEE STANDARD PLAN B-103 SERIES



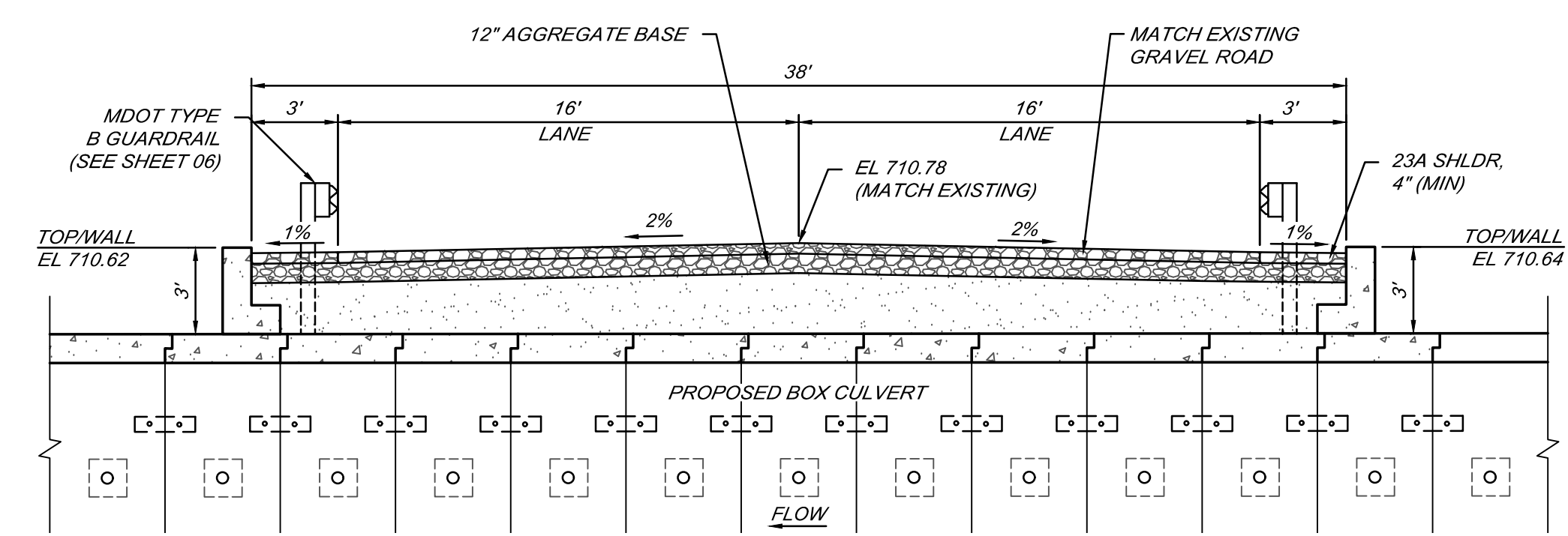
**RIPRAP SLOPE PROTECTION
TYPICAL CROSS-SECTION**
NOT TO SCALE



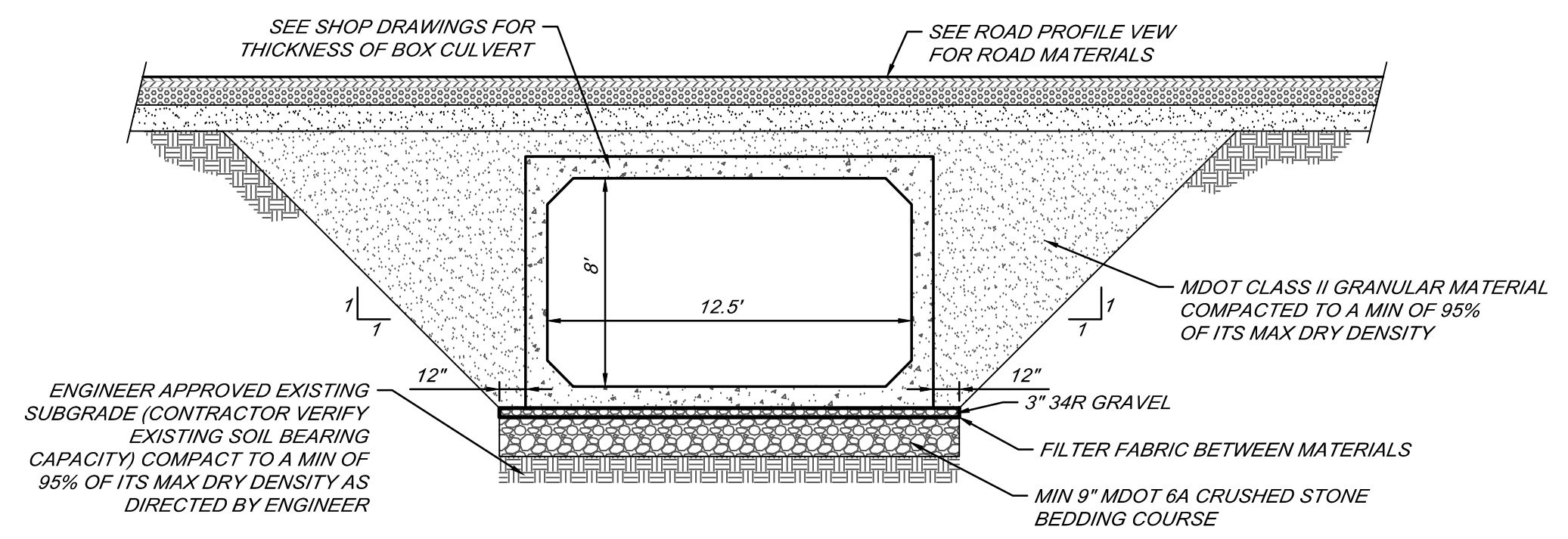
CONCRETE HEADWALL DETAIL
NOT TO SCALE



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



ROAD PROFILE VIEW
SCALE: 1" = 5'



TYPICAL BOX CULVERT TRENCH DETAIL
NOT TO SCALE

PRELIMINARY

BY	MARK	REVISIONS	DATE
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<p>TIN BILL ROAD CROSSING TUSCOLA COUNTY, MICHIGAN</p>			
<p>TIN BILL ROAD CROSSING STRUCTURE DETAILS</p>			
<p>DE. BY: POC/TMC DR. BY: MJC</p>		<p>CH. BY: TMC APP. BY: NDC</p>	
		<p>PROJECT NO. 1379425G2025</p>	
<p>STDS.</p>		<p>SHEET 05 OF 07</p>	
<p>DATE: MARCH, 2026 SCALE: AS SHOWN</p>		<p>FILE NO. DR-6571-05</p>	
		<p>DR 05</p>	

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

BORING LOG										B-1	
AKT PEERLESS TIN BILL ROAD CARO, MICHIGAN										DRAWN BY: TRA	
AKT PEERLESS PROJECT NO: 20758G-1-23										DATE: 12/18/2025	
DRILLING COMPANY: AKT PEERLESS					WEATHER: WINTER COLD						
LEAD DRILLER: RYAN BROWN					BORING DEPTH: 35 FEET						
DATE DRILLED: 12/09/25					DEPTH TO GW: 11 FEET BGS						
DRILLING METHOD: HOLLOW-STEM AUGER					SCREEN INTERVAL: N/A						
FIELD GEOLOGIST: T. ANTHONY					SCREEN MATERIAL: N/A						
DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	M-VALUE	USCS SOIL CLASS.	MOISTURE	DENSITY	COLOR	GEOLOGIC DESCRIPTION	NOTES		
2		100%	2	SC	MOIST	LOOSE	BROWN	SAND, WITH CLAY, TRACE GRAVEL			
2			2								
3			3								
4		100%	6	SC	DRY	MEDIUM	BROWN	SAND, WITH CLAY, TRACE GRAVEL			
4			12								
7			7								
6		100%	0	SC	DRY	VERY LOOSE	BROWN	SAND, WITH CLAY, TRACE COBBLE	1 BLOW FOR 2-INCH 56 BLOWS NO MOVEMENT		
6			0								
7			1								
8			1								
11		100%	11	SM	DRY	DENSE	GREY	SAND, WITH SOME SILT, TRACE GRAVEL			
11			17								
17			17								
23			23						GROUNDWATER AT 11 FEET BGS		
14		100%	11	SP	DRY	DENSE	GREY	SAND, WITH SOME GRAVEL			
14			16								
15			15								
16			15								
18			15								
20		100%	50	SM	DRY	VERY DENSE	GREY	SAND, WITH SOME SILT, TRACE COBBLE			
20			80								
20			85								
22			85								
24		100%	40	SM	WET	VERY DENSE	GREY	SAND, WITH SOME SILT, TRACE COBBLE			
24			55								
26			82								
26			82								
28			65	SM	WET	VERY DENSE	GREY	SAND, WITH SOME SILT, TRACE COBBLE			
28		100%	112								
28			139								
30			139								
34		100%	70	SM	WET	VERY DENSE	GREY	SAND, WITH SOME SILT, TRACE COBBLE			
34			110								
34			142								
36								END OF BORING			
36											
38											
40											

BORING B-1

BORING LOG										B-2	
AKT PEERLESS TIN BILL ROAD CARO, MICHIGAN										DRAWN BY: TRA	
AKT PEERLESS PROJECT NO: 20758G-1-23										DATE: 12/18/2025	
DRILLING COMPANY: AKT PEERLESS					WEATHER: WINTER COLD						
LEAD DRILLER: RYAN BROWN					BORING DEPTH: 35 FEET						
DATE DRILLED: 12/09/25					DEPTH TO GW: 13 FEET BGS						
DRILLING METHOD: HOLLOW-STEM AUGER					SCREEN INTERVAL: N/A						
FIELD GEOLOGIST: T. ANTHONY					SCREEN MATERIAL: N/A						
DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	M-VALUE	USCS SOIL CLASS.	MOISTURE	DENSITY	COLOR	GEOLOGIC DESCRIPTION	NOTES		
2		100%	1	SC	MOIST	VERY LOOSE	BROWN	SAND, WITH CLAY, TRACE GRAVEL			
2			2								
2			2								
4		100%	2	SC	DRY	MEDIUM	BROWN	SAND, WITH CLAY, TRACE GRAVEL			
4			5								
7			7								
6		100%	2	SC	DRY	MEDIUM	BROWN	SAND, WITH CLAY, TRACE GRAVEL			
6			2								
7			21								
8			21								
10		100%	7	SM	DRY	DENSE	GREY	SAND, WITH SILT, TRACE COBBLES			
10			12								
10			18								
12			18								
14		100%	16	SP	DRY	DENSE	GREY	SAND, WITH SOME SILT, TRACE COBBLES			
14			20								
16			23								
16			23								
18			23								
20		100%	18	SM	DRY	VERY DENSE	GREY	SAND, WITH SOME SILT, TRACE COBBLES			
20			22								
20			53								
22			53								
24		100%	13	SM	WET	VERY DENSE	GREY	SAND, WITH SOME SILT, TRACE COBBLES			
24			20								
26			44								
26			44								
28			30	SM	WET	VERY DENSE	GREY	SAND, WITH SOME SILT, TRACE COBBLES			
28		100%	90								
28			110								
30			110								
34		100%	52	SM	WET	VERY DENSE	GREY	SAND, WITH SOME SILT, TRACE COBBLES			
34			112								
34			116								
36								END OF BORING			
36											
38											
40											

BORING B-2

LOG OF BORINGS
NOT TO SCALE

PRELIMINARY

BY	MARK	REVISIONS	DATE

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**TIN BILL ROAD CROSSING
TUSCOLA COUNTY, MICHIGAN**

**BORINGS LOG
TIN BILL ROAD CROSSING**

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DE. BY: POC/TMC	CH. BY: TMC	PROJECT NO.
DR. BY: MJC	APP. BY: NDC	137942SG2025
STDS.	SHEET 07 OF 07	DR
DATE: FEBRUARY, 2026	FILE NO.	07
SCALE: NOT TO SCALE	DR-6571-07	

P:\Project\2025\2025_02\2025_02_Tuscola_CRC_2025_AN_Designs_Services\Tin Bill Rd Crossing over Keene Street\Drawings\Boring\B-1.dwg, P:\Proj_20250205\1126118_MM_michael.courney
MICHAEL COURNEY