



HOUSE of REPRESENTATIVES

STATE OF MICHIGAN

Appropriations Requests for Legislatively Directed Spending Items

1. The sponsoring representative's first name:
Timmy
2. The sponsoring representative's last name:
Beson
3. The cosponsoring representatives' names. All cosponsors must be listed. If none, please type 'n/a.' A signed letter from the sponsor approving the co-sponsorship and a signed letter from the member wishing to co-sponsor are required. Attach letters at question #9 below.
N/A
4. Name of the entity that the spending item is intended for:
Saginaw Bay Watershed
5. Physical address of the entity that the spending item is intended for:
1836 E Parish Road, Kawkawlin, MI 48634
6. If there is not a specific recipient, the intended location of the project or activity:
Saginaw Bay & Tobico Marsh Area
7. Name of the representative and the district number where the legislatively directed spending item is located:
Rep. Timy Beson, 96th District
8. Purpose of the legislatively directed spending item. Please include how it provides a public benefit and why it is an appropriate use of taxpayer funding. Please also demonstrate that the item does not violate Article IV, S 30 of the Michigan Constitution. The purpose of this project is to eliminate flooding to the access road to many residential houses and to prevent flooding on this section of South Linwood Beach Road. This funding would allow Kawkawlin Township to install approximately 3,690 feet of a new storm sewer system with a pump station to eliminate flooding in this area. This designed system would effectively manage and outlet the stormwater into the Tobico Marsh located on the west side of the project area.
9. Attach documents here if needed:
Attachments added to the end of this file.

10. The amount of state funding requested for the legislatively directed spending item.

1935000

11. Has the legislatively directed spending item previously received any of the following types of funding? Check all that apply.

["None"]

12. Please select one of the following groups that describes the entity requesting the legislatively directed spending item:

Local unit government

13. For a non-profit organization, has the organization been operating within Michigan for the preceding 36 months?

Not applicable

14. For a non-profit organization, has the entity had a physical office within Michigan for the preceding 12 months?

Not applicable

15. For a non-profit organization, does the organization have a board of directors?

Not applicable

16. For a non-profit organization, list all the active members on the organization's board of directors and any other officers. If this question is not applicable, please type 'n/a.'

Supervisor, Brad Eddy Treasurer, Laurie DeShano Clerk, Kayla Schlanderer Trustee, Brian Whalen Trustee, Charles Campbell

17. "I certify that neither the sponsoring representative nor the sponsoring representative's staff or immediate family has a direct or indirect pecuniary interest in the legislatively directed spending item."

Yes, this is correct

18. Anticipated start and end dates for the legislatively directed spending item:

Sept 2025 - Spring 2026

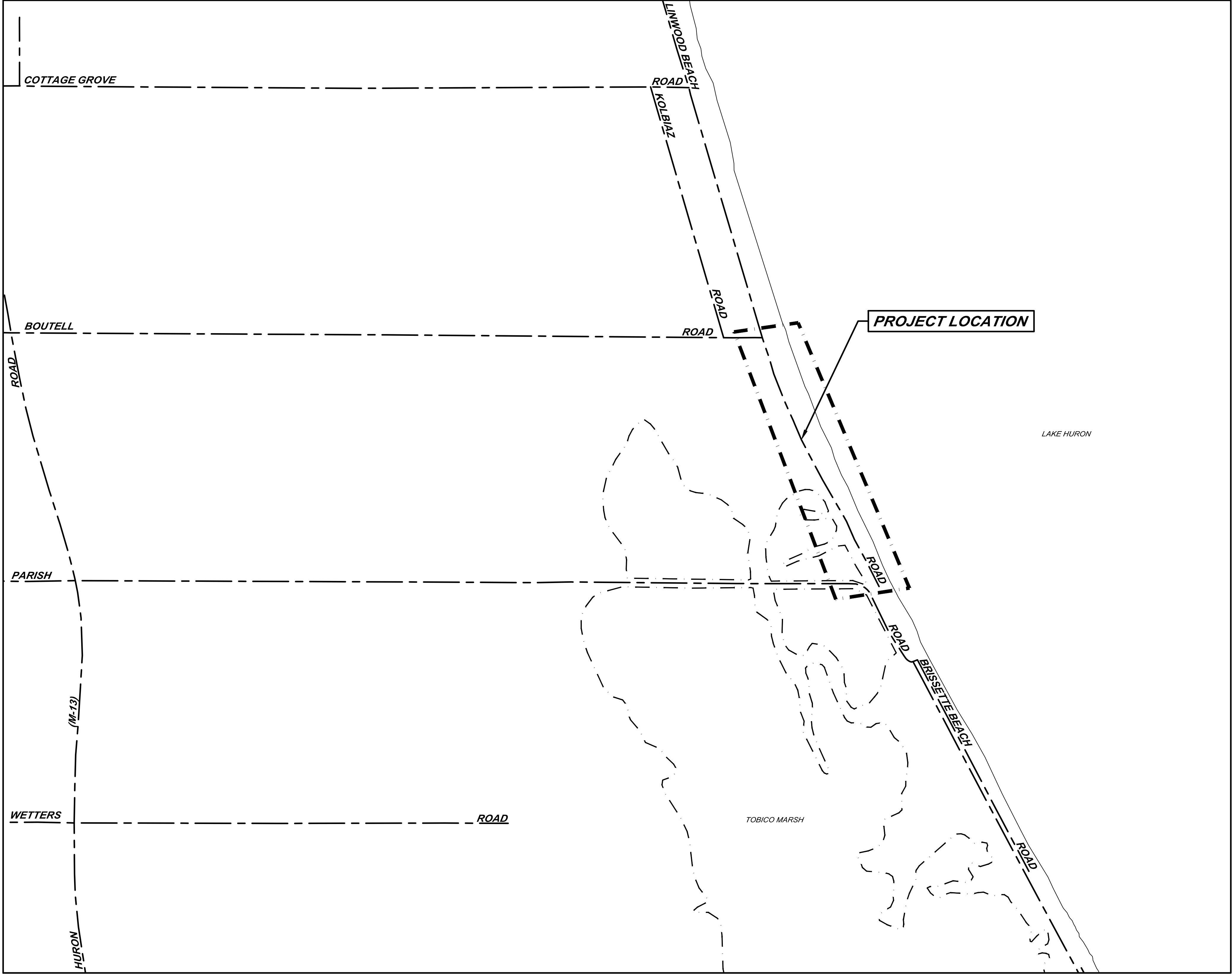
19. "I hereby certify that all information provided in this request is true and accurate."

Yes

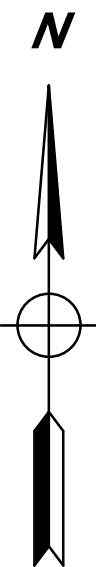
S. LINWOOD BEACH ROAD - STORM SEWER

KAWKAWLIN TOWNSHIP

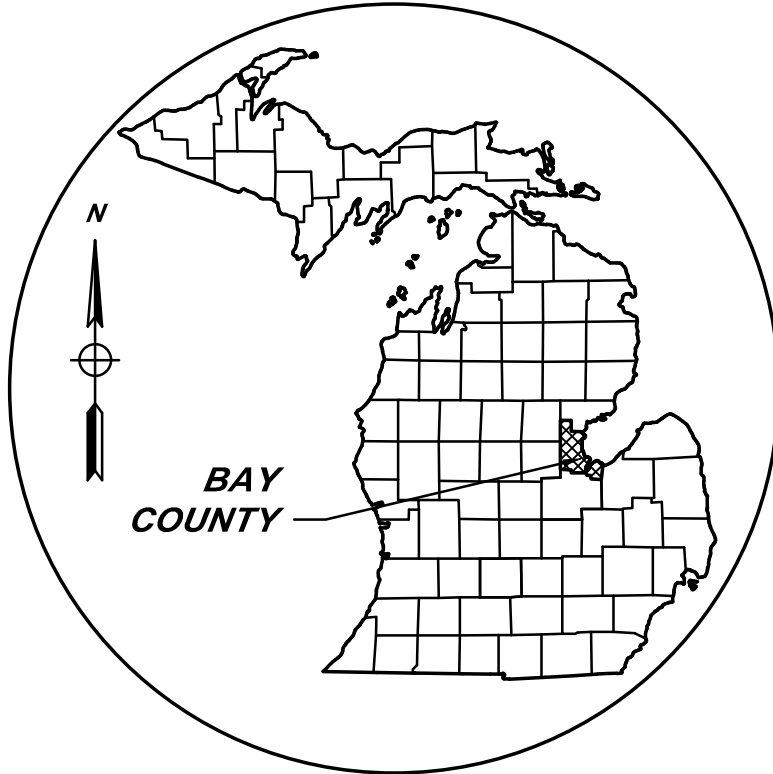
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LOCATION MAP
NOT TO SCALE




SECTIONS 12-13, T15N-R04E,
KAWKAWLIN TOWNSHIP,
BAY COUNTY, MICHIGAN



AREA MAP
NOT TO SCALE

PRELIMINARY

1/13/25

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.			
S. LINWOOD BEACH ROAD - STORM SEWER BAY 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/CDV	CH. BY: CDV	PROJECT NO.	
DR. BY: M/C	APP. BY: NDC	135699SG2023	
STDS.		SHEET 01 OF 08	DR 01
DATE	JANUARY, 2025		
SCALE	NOT TO SCALE		
		FILE NO.	DR-4835-01

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 THUS 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.

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 MANHOLE 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

ALL RIM ELEVATIONS ARE TO BE ADJUSTED AS NECESSARY TO PROVIDE POSITIVE DRAINAGE TO ALL STRUCTURES.

ABBREVIATIONS

BC = BACK OF CURB
BM = BENCH MARK
CB = CATCH BASIN
C/C = 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 = LOW 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
T/B = 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
⊕ 800.00 LABEL - SPOT ELEVATION LABELS
G = GUTTER
TW = WALK
TC = TOP OF CURB
FS = FINISH SURFACE

LINE TYPE LEGEND

— — — — — EXISTING ROAD CENTERLINE
— BL — — — — — EXISTING BRINE LINE
- - - - - EXISTING WATERMAIN
- - - - - EXISTING SANITARY SEWER OR FORCEMAIN
- - - - - EXISTING STORM SEWER
- - - - - EXISTING TELEPHONE CABLE
- - - - - EXISTING GAS MAIN
- - - - - EXISTING ELECTRIC
- - - - - 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
⊗ - CATCH BASIN
⌘ - CURB CATCH BASIN
⌘ - 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
⊗ - BENCH MARK
⊗ - 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

1/10/25

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.			
S. LINWOOD BEACH ROAD - STORM SEWER BAY COUNTY,, MICHIGAN			
CONTACTS, GENERAL NOTES, LINE TYPE LEGEND			
		SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com	
DE. BY:	POC/CDV	CH. BY:	CDV
DR. BY:	MJC	APP. BY:	NDG
		PROJECT NO. 135699SG2023	
STDS.	SHEET 02 OF 08		DR 02
DATE	JANUARY, 2025		
SCALE	NOT TO SCALE		
		FILE NO. DR-4835-02	

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.
6	Catch Basin		Where surface water accumulates and needs an outlet or an open drain discharges to a stream or drain at erosive velocities. Within an enclosed drain system to provide an inlet and a sump.
7	Storm Drain Inlet Protection		Around the entrance to a catch basin or an inlet that will capture runoff from an earth change activity.
15	Riprap		Along drain banks, shorelines, or where concentrated flows occur. Slows velocity, reduces erosion and sediment load.
23	Outfall Stabilization		In the stream or drain bank usually above the ordinary high water mark where an enclosed drain or tile discharges to an open drain.
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	NO
C	Stormwater Basin Maintenance	NO
D	Drain Crossing Maintenance	NO
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 STORM SEWER
RESTORATION
INSTALL AND ESTABLISH PERMANENT CONTROL MEASURES
REMOVE TEMPORARY CONTROL MEASURES

BAY COUNTY	
SOIL CLASS	SOIL COMPOSITION
35A	PIPESTONE SAND, ERIE-HURON LAKE PLAIN, 0-3% SLOPES
67	BELLEVILLE LOAMY SAND, PONDED

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 ERODIVE ARES 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.

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.

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

- 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 S. LINWOOD BEACH ROAD - STORM SEWER SESC PLAN AND PROJECT SPECIFICATIONS.
- 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.
- 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.
- ADDITIONAL SOIL EROSION CONTROL MEASURES MUST BE PROVIDED THROUGHOUT CONSTRUCTION ACTIVITY AS NEEDED AND DETERMINED BY THE APA/ENGINEER. THE SOIL EROSION AND SEDIMENTATION CONTROL PLAN IS TO BE AMENDED TO INCLUDE ADDITIONAL EROSION CONTROL MEASURES IMPLEMENTED ON-SITE.
- 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.
- 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.
- 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.
- 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.
- 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.
- WORK AREAS MUST BE STABILIZED WITH TOPSOIL, SEED, FERTILIZER, AND MULCH WITHIN 24 HOURS FOLLOWING CONSTRUCTION. VEGETATIVE STABILIZATION IS ONGOING THROUGHOUT THE PROJECT.
- 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.
- 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.
- IF DEWATERING IS NECESSARY, CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE ENGINEER OR APA FOR APPROVAL.
- THE NOTICE OF COVERAGE (IF REQUIRED), SOIL EROSION AND SEDIMENTATION CONTROL PLAN, AND STORMWATER OPERATOR LOGS MUST BE LOCATED ON SITE AT ALL TIMES.
- ALL RESTORATION TO OCCUR WITHIN 24 HOURS OF FINAL GRADING.

PRELIMINARY

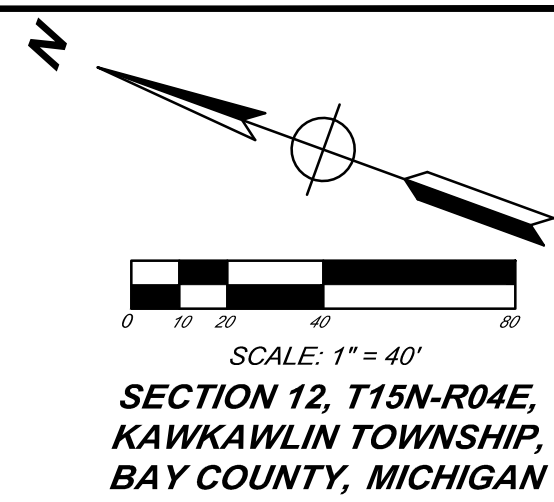
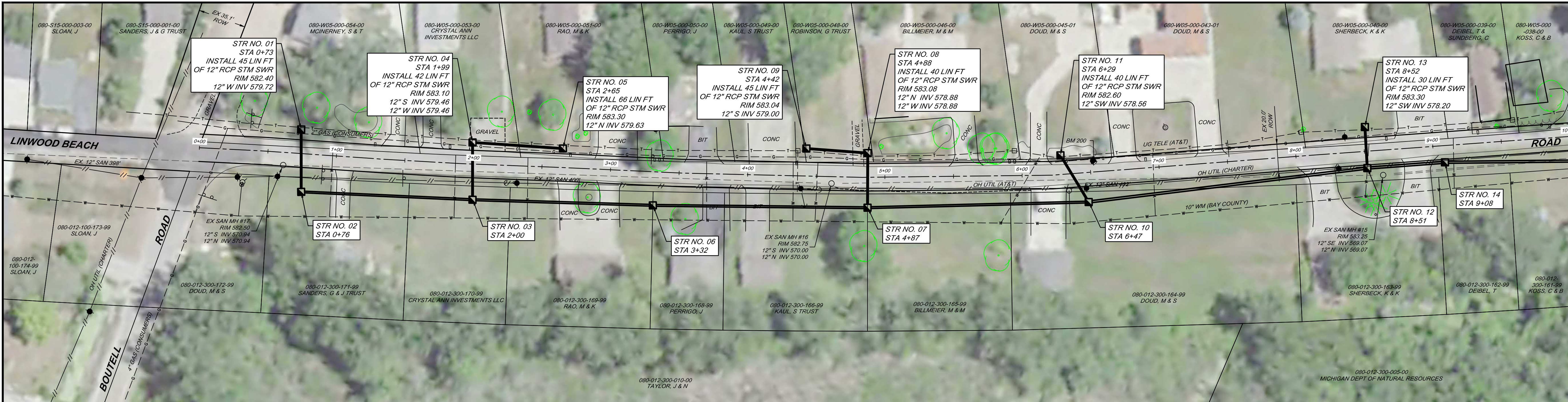
1/10/25

CONTINUED MAINTENANCE PROGRAM FOR PERMANENT SESC MEASURES	
RESPONSIBLE PARTY:	
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.

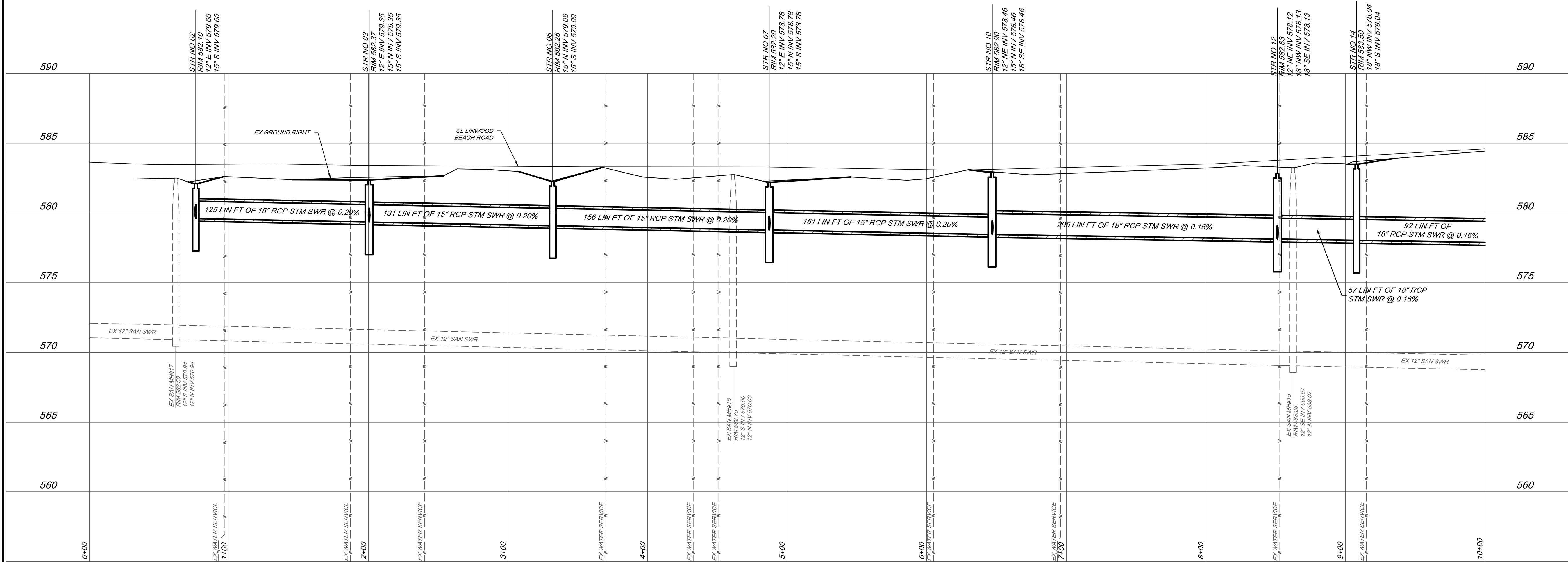
BY	MARK	REVISIONS	DATE
THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.			
S. LINWOOD BEACH ROAD - STORM SEWER BAY 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/CDV	CH. BY:	CDV
DR. BY:	M/C	APP. BY:	NDG
		PROJECT NO. 135699SG2023	
STDS.		SHEET 03 OF 08	DR 03
DATE	JANUARY, 2025	FILE NO.	
SCALE	NOT TO SCALE	DR-4835-03	

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.



QUANTITIES		
ITEM	UNIT	QTY.
5' DIA MH/CB	EACH	4
4' DIA MH/CB	EACH	5
3' DIA MH	EACH	5
18" RCP	LIN FT	354
15" RCP	LIN FT	574
12" RCP	LIN FT	308



PROPOSED STORM SEWER STRUCTURE TABLE				
STRUCTURE NO.	LOCATION	OFFSET	SIZE/TYPE	EL/W/IN FRAME W/ TYPE COVER GRATE
01	0+73	17.5' LT	3' DIA CB	1045 W/IN OVAL GRATE
02	0+76	27.8' RT	4' DIA MH/CB	1045 W/IN OVAL GRATE
03	2+00	26.0' RT	5' DIA MH/CB	1045 W/IN OVAL GRATE
04	1+99	15.7' LT	4' DIA MH/CB	1045 W/IN FLAT TOP GRATE
05	2+65	13.9' LT	3' DIA CB	1045 W/IN OVAL GRATE
06	3+32	24.5' RT	4' DIA MH/CB	1045 W/IN OVAL GRATE
07	4+87	22.1' RT	5' DIA MH/CB	1045 W/IN OVAL GRATE
08	4+88	17.7' LT	4' DIA MH/CB	1045 W/IN FLAT TOP GRATE
09	4+42	20.1' LT	3' DIA CB	1045 W/IN FLAT TOP GRATE
10	6+47	21.5' RT	5' DIA MH/CB	1045 W/IN OVAL GRATE
11	6+29	14.0' LT	3' DIA CB	1045 W/IN OVAL GRATE
12	8+51	12.3' RT	5' DIA MH/CB	1045 W/IN OVAL GRATE
13	8+52	17.7' LT	3' DIA CB	1045 W/IN OVAL GRATE
14	9+08	12.2' RT	4' DIA MH/CB	1045 W/IN OVAL GRATE

EROSION CONTROL TABLE					
KEY*	FROM STATION	TO STATION	SIDE	DESCRIPTION	QTY
1 P	0+00	10+00	-	SEEDING OF ALL DISTURBED AREAS	LUMP SUM
2 T	0+00	10+00	-	MULCH OF ALL DISTURBED AREAS	LUMP SUM
6 P	AS SHOWN	-	-	CATCHBASIN	14 EA
7 P	ALL CATCHBASINS AND DRAIN BASINS AFFECTED BY PROJECTS, BOTH EXISTING AND PROPOSED	-	-	STORM DRAIN INLET PROTECTION	14 EA
26 P	ALL DISTURBED AREAS	-	-	DUST CONTROL	LUMP SUM

NOTE: COORDINATE INSTALLATION OF EROSION CONTROL STRUCTURES WITH ENGINEER PRIOR TO CONSTRUCTION. LOCATIONS, QUANTITIES, OR TYPES MAY VARY BASED ON FIELD DECISIONS.


CONSTRUCTION NOTES

- PROTECT EXISTING PAVEMENT WHEN WORKING ALONG ROAD. ALL REPAIR COSTS ARE INCIDENTAL TO THE PROJECT AND ARE THE CONTRACTOR'S RESPONSIBILITY.

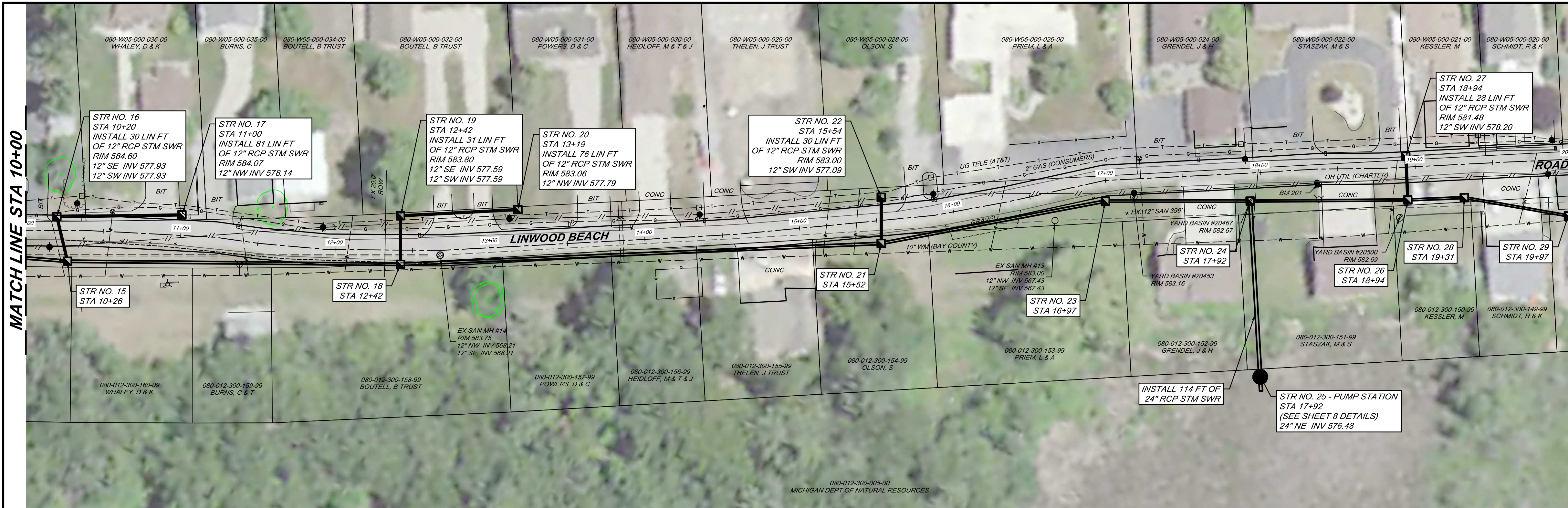
BENCHMARKS

BM 200 - SET GEAR SPIKE IN EAST FACE OF POWER POLE BEING ±3' WEST OF EDGE OF BIT PAVEMENT, ±33' SOUTHEAST OF FIRE HYDRANT.

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.			
S. LINWOOD BEACH ROAD - STORM SEWER BAY COUNTY, MICHIGAN			
PLAN AND PROFILE S. LINWOOD BEACH ROAD STA 0+00 TO STA 10+00			
		SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel: 989-754-4717 Fax: 989-754-4440 www.SpicerGroup.com	
DE. BY:	POC/CDV	CH. BY:	CDV
DR. BY:	MJC	APP. BY:	NDC
		PROJECT NO. 135699SG2023	
STDs.		SHEET 04 OF 08	
DATE SCALE		FILE NO.	
JANUARY, 2025 H: 1"=40' V: 1"=4'		DR-4835-04	
		DR 04	

EL 584.15



SECTION 12, T15N-R04E,
KAWKAWLIN TOWNSHIP,
BAY COUNTY, MICHIGAN

PROPOSED STORM SEWER STRUCTURE TABLE				
STRUCTURE NO.	LOCATION	OFFSET	SIZE/TYPE	E/I/W FRAME W/ TYPE COVER GRATE
15	10+26	19.8' RT	5' DIA MH/CB	1045 W/W OVAL GRATE
16	10+20	9.0' LT	4' DIA MH/CB	1045 W/ FLAT TOP GRATE
17	11+00	13.3' LT	3' DIA CB	1045 W/ FLAT TOP GRATE
18	12+42	9.2' RT	5' DIA MH/CB	1045 W/W OVAL GRATE
19	12+42	22.1' LT	4' DIA MH/CB	1045 W/W OVAL GRATE
20	13+19	23.6' LT	3' DIA CB	1045 W/W OVAL GRATE
21	15+52	14.7' RT	5' DIA MH/CB	1045 W/W OVAL GRATE
22	15+54	14.9' LT	3' DIA CB	1045 W/W OVAL GRATE
23	16+97	13.1' RT	4' DIA MH/CB	1045 W/W OVAL GRATE
24	17+92	18.1' RT	6' DIA MH/CB	1045 W/W OVAL GRATE
25	17+92	131.6' RT	PUMP STATION	ACCESS HATCH ASSEMBLY
26	18+94	21.2' RT	5' DIA MH/CB	1045 W/W OVAL GRATE
27	18+94	7.0' LT	4' DIA MH/CB	1045 W/ FLAT TOP GRATE
28	19+31	21.6' RT	4' DIA MH/CB	1045 W/W OVAL GRATE
29	19+97	36.4' RT	4' DIA MH/CB	1045 W/W OVAL GRATE

EROSION CONTROL TABLE					
KEY*	FROM STATION	TO STATION	SIDE	DESCRIPTION	QTY
1 P	10+00	20+00	-	SEEDING OF ALL DISTURBED AREAS	LUMP SUM
2 T	10+00	20+00	-	MULCH OF ALL DISTURBED AREAS	LUMP SUM
6 P	AS SHOWN		-	CATCHBASIN	14 EA
7 P	ALL CATCHBASINS AND DRAIN BASINS AFFECTED BY PROJECTS, BOTH EXISTING AND PROPOSED		-	STORM DRAIN INLET PROTECTION	11 EA
26 P	ALL DISTURBED AREAS		-	DUST CONTROL	LUMP SUM

NOTE: COORDINATE INSTALLATION OF EROSION CONTROL STRUCTURES WITH ENGINEER PRIOR TO CONSTRUCTION. LOCATIONS, QUANTITIES, OR TYPES MAY VARY BASED ON FIELD DECISIONS.

PRELIMINARY

BY	MARK	REVISIONS	DATE
S. LINWOOD BEACH ROAD - STORM SEWER BAY COUNTY, MICHIGAN			
PLAN AND PROFILE S. LINWOOD BEACH ROAD STA 10+00 TO STA 20+00			
			
SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel: 989-754-4717 Fax: 989-754-4440 www.SpicerGroup.com			
DE. BY: POC/CDV	CH. BY: CDV	PROJECT NO.	
DR. BY: MJC	APP. BY: NDC	135699SG2023	
STDs.	SHEET 05 OF 08	DR	
DATE: JANUARY, 2025	FILE NO.	05	
SCALE: H: 1"=40' V: 1"=4'	DR-4835-05		

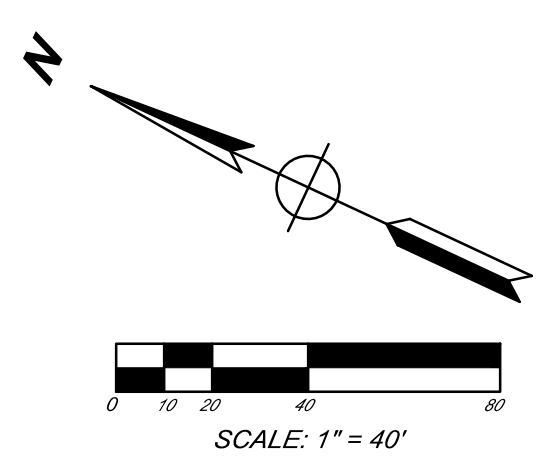
CONSTRUCTION NOTES

- PROTECT EXISTING PAVEMENT WHEN WORKING ALONG ROAD. ALL REPAIR COSTS ARE INCIDENTAL TO THE PROJECT AND ARE THE CONTRACTOR'S RESPONSIBILITY.

BENCHMARKS

BM 201 - SET GEAR SPIKE IN WEST FACE OF POWER POLE, BEING ±3' EAST OF EDGE OF BIT, ±10' EAST OF FIRE HYDRANT.

EL 583.90



QUANTITIES		
<i>ITEM</i>	<i>UNIT</i>	<i>QTY.</i>
<i>5" DIA MH/CB</i>	<i>EACH</i>	<i>4</i>
<i>4" DIA MH/CB</i>	<i>EACH</i>	<i>4</i>
<i>3" DIA MH</i>	<i>EACH</i>	<i>4</i>
<i>15" RCP</i>	<i>LIN FT</i>	<i>57</i>
<i>12" RCP</i>	<i>LIN FT</i>	<i>1010</i>

PROPOSED STORM SEWER STRUCTURE TABLE				
STRUCTURE NO.	LOCATION	OFFSET	SIZE/TYPE	EJW FRAME W/ TYPE COVER GRATE
30	20+53	35.2' RT	5' DIA MH/CB	1045 W/IN FLAT TOP GRATE
31	20+54	5.2' LT	3' DIA CB	1045 W/IN OVAL GRATE
32	22+96	21.0' RT	5' DIA MH/CB	1045 W/IN OVAL GRATE
33	22+96	6.4' LT	3' DIA CB	1045 W/IN FLAT TOP GRATE
34	24+04	21.1' RT	5' DIA MH/CB	1045 W/IN OVAL GRATE
35	24+05	5.8' LT	3' DIA CB	1045 W/IN FLAT TOP GRATE
36	24+74	20.9' RT	4' DIA MH/CB	1045 W/IN OVAL GRATE
37	26+15	20.3' RT	5' DIA MH/CB	1045 W/IN OVAL GRATE
38	26+14	5.2' LT	4' DIA MH/CB	1045 W/IN FLAT TOP GRATE
39	25+16	5.6' LT	3' DIA CB	1045 W/IN FLAT TOP GRATE
40	27+03	19.1' RT	4' DIA MH/CB	1045 W/IN OVAL GRATE
41	28+47	9.9' RT	4' DIA MH/CB	1045 W/IN OVAL GRATE

<i>EROSION CONTROL TABLE</i>					
<i>KEY**</i>	<i>FROM STATION</i>	<i>TO STATION</i>	<i>SIDE</i>	<i>DESCRIPTION</i>	<i>QTY</i>
(1 P)	20+00	28+94	-	SEEDING OF ALL DISTURBED AREAS	LUMP SUM
(2 T)	20+00	28+94	-	MULCH OF ALL DISTURBED AREAS	LUMP SUM
(6 P)	AS SHOWN		-	CATCHBASIN	12 EA
(7 P)	ALL CATCHBASINS AND DRAIN BASINS AFFECTED BY PROJECTS BOTH EXISTING AND PROPOSED		-	STORM DRAIN INLET PROTECTION	12 EA
(26 P)	ALL DISTURBED AREAS		-	DUST CONTROL	LUMP SUM

NOTE: COORDINATE INSTALLATION OF EROSION CONTROL STRUCTURES WITH ENGINEER PRIOR TO CONSTRUCTION. LOCATIONS, QUANTITIES, OR TYPES MAY VARY BASED ON FIELD DECISIONS.

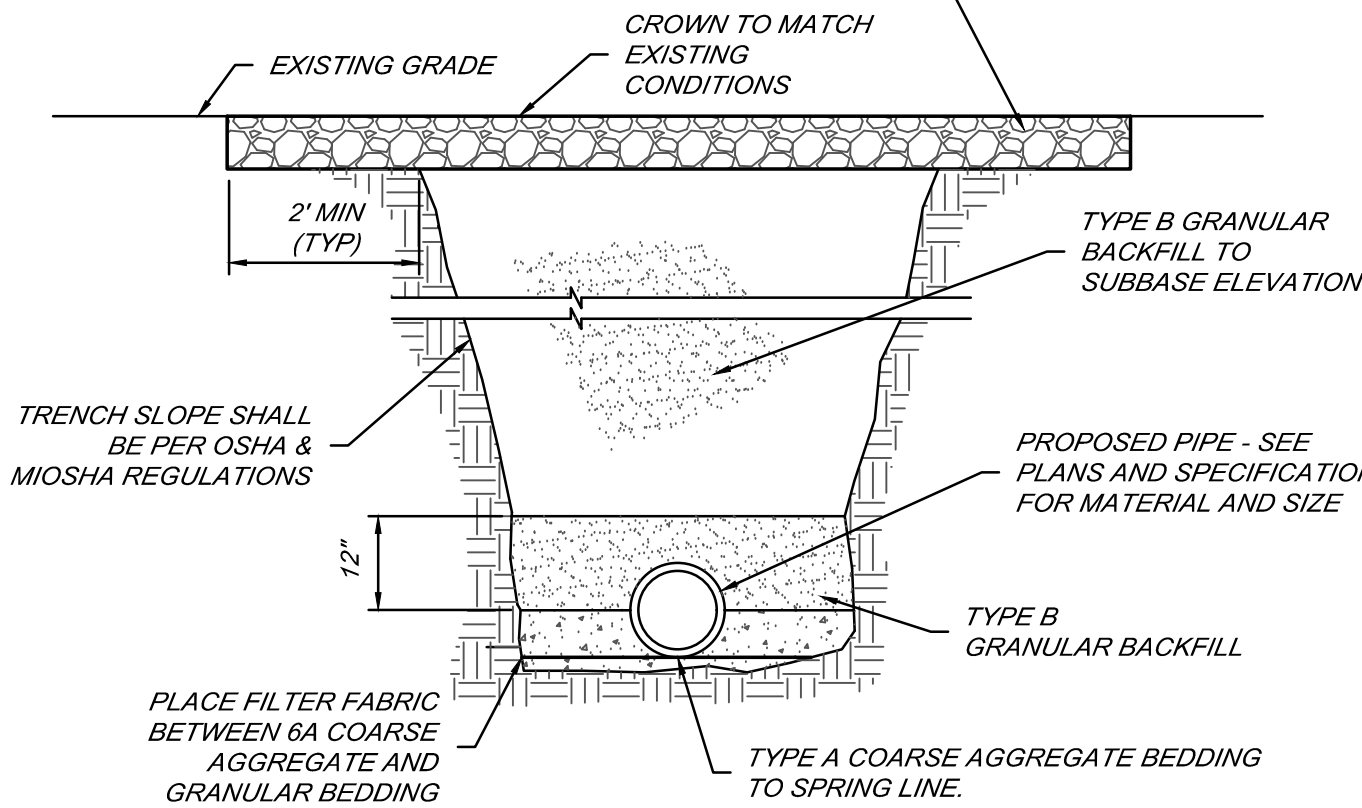
PRELIMINARY

BY	MARK	REVISONS	DATE
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<p>S. LINWOOD BEACH ROAD - STORM SEWER BAY COUNTY, MICHIGAN</p>			
<p>PLAN AND PROFILE S. LINWOOD BEACH ROAD STA 20+00 TO STA 28+94</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/CDV	CH. BY:	PROJECT NO.
DD:	MJC	APP. BY:	135699S/02023
CDV:		NOC:	
STDS.		<p>SHEET 06 OF 08</p> <p>DR</p>	
DATE	JANUARY, 2024	FILE NO.	06
H: 1'-0"=4' V: 1'-4'		DR-4835-06	

CONSTRUCTION NOTES

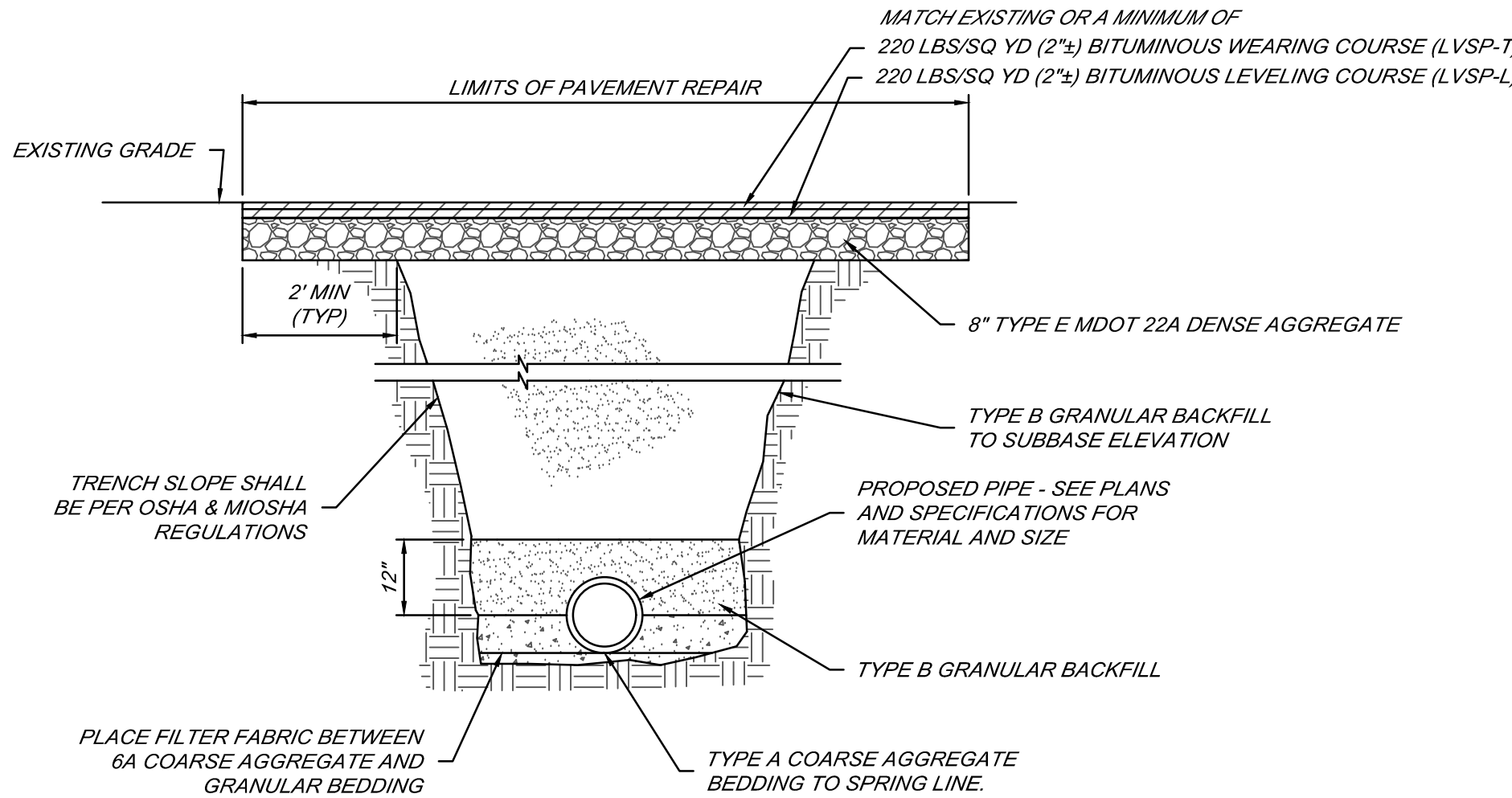
1. *PROTECT EXISTING PAVEMENT WHEN WORKING ALONG ROAD. ALL REPAIR COSTS ARE INCIDENTAL TO THE PROJECT AND ARE THE CONTRACTOR'S RESPONSIBILITY.*

6" TYPE G MDOT 23A DENSE-GRADED AGGREGATE COMPACTED TO A MIN. OF 95% OF ITS MAXIMUM DRY DENSITY FOR DRIVES. 8" TYPE G MDOT 23A DENSE-GRADED AGGREGATE COMPACTED TO A MIN. OF 95% OF ITS MAXIMUM DRY DENSITY FOR ROADWAYS.



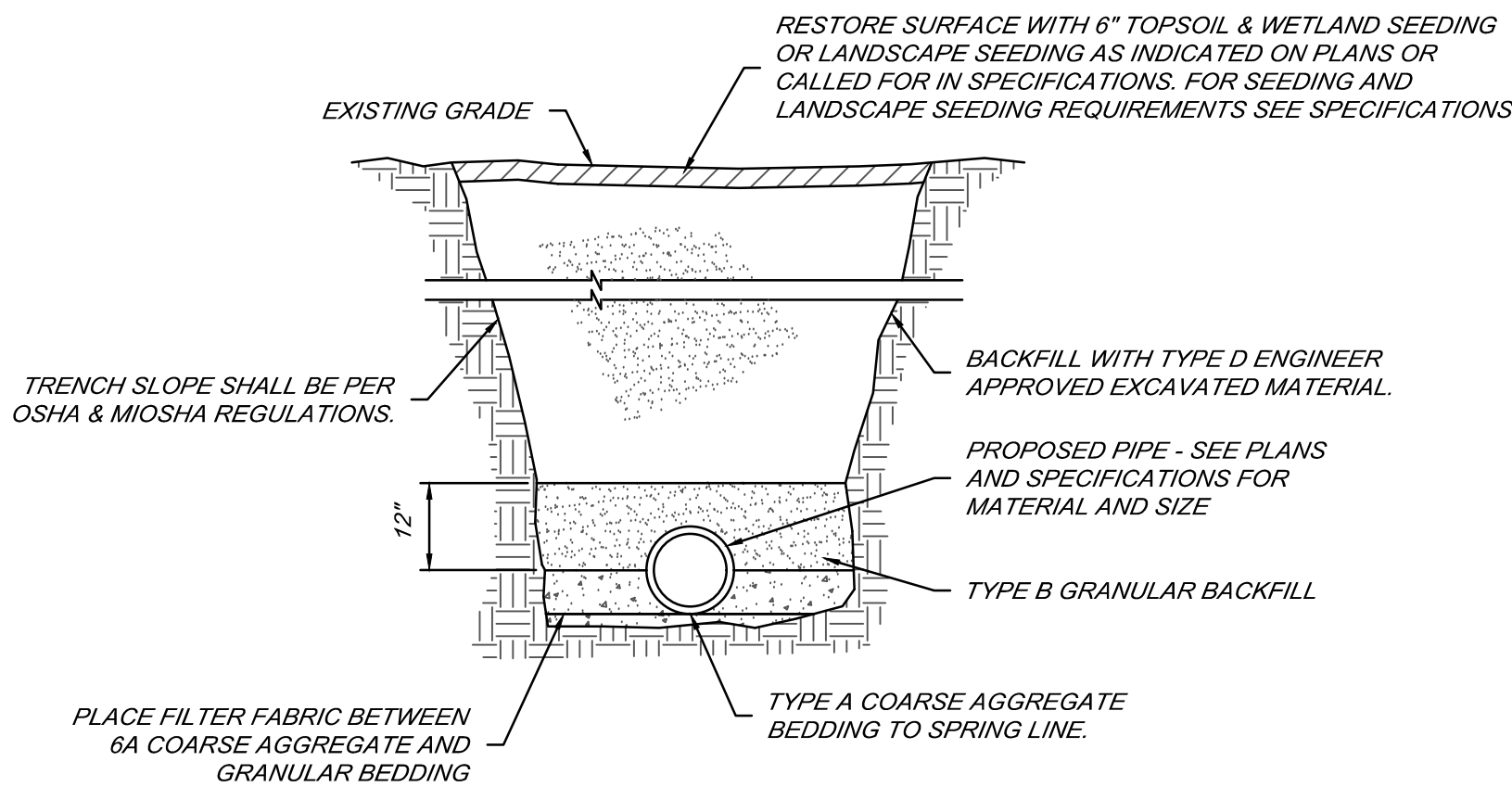
RCP TRENCH DETAIL A - WITHIN INFLUENCE OF GRAVEL ROAD OR GRAVEL DRIVE

NOT TO SCALE



RCP TRENCH DETAIL A - WITHIN INFLUENCE OF ROAD OR IMPROVED SURFACE

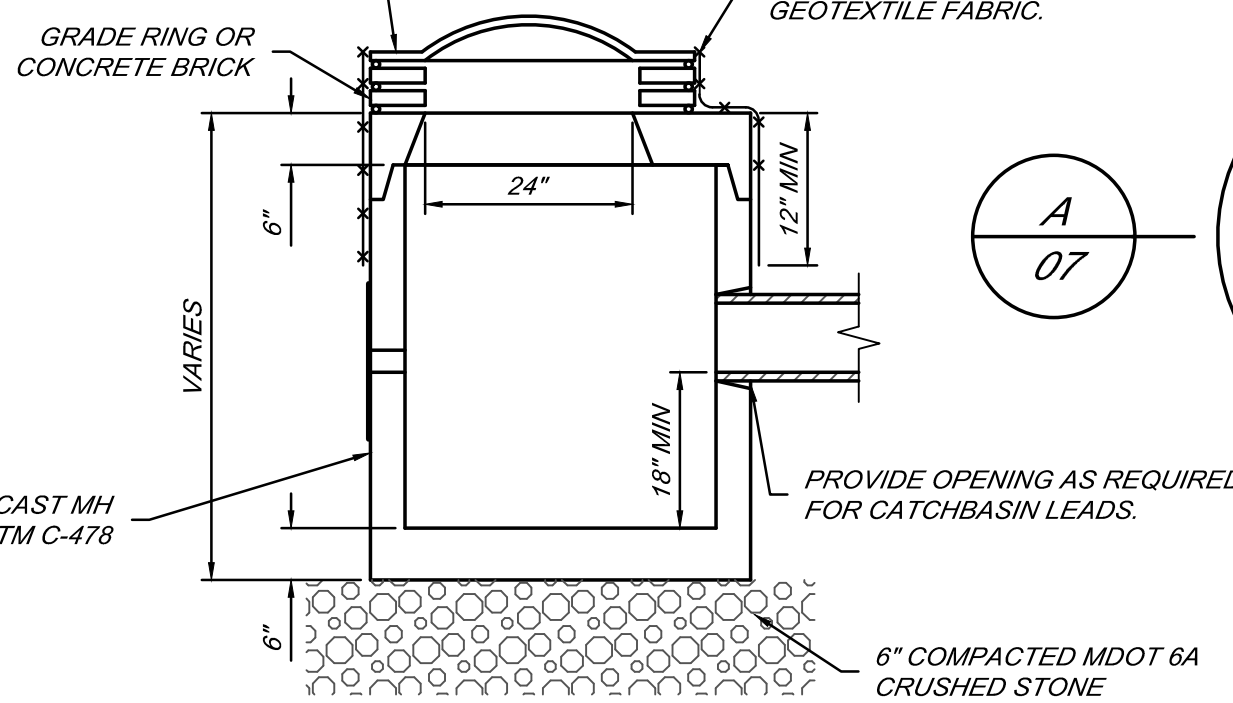
NOT TO SCALE



RCP TRENCH DETAIL B - OUTSIDE INFLUENCE OF ROAD OR IMPROVED SURFACE

NOT TO SCALE

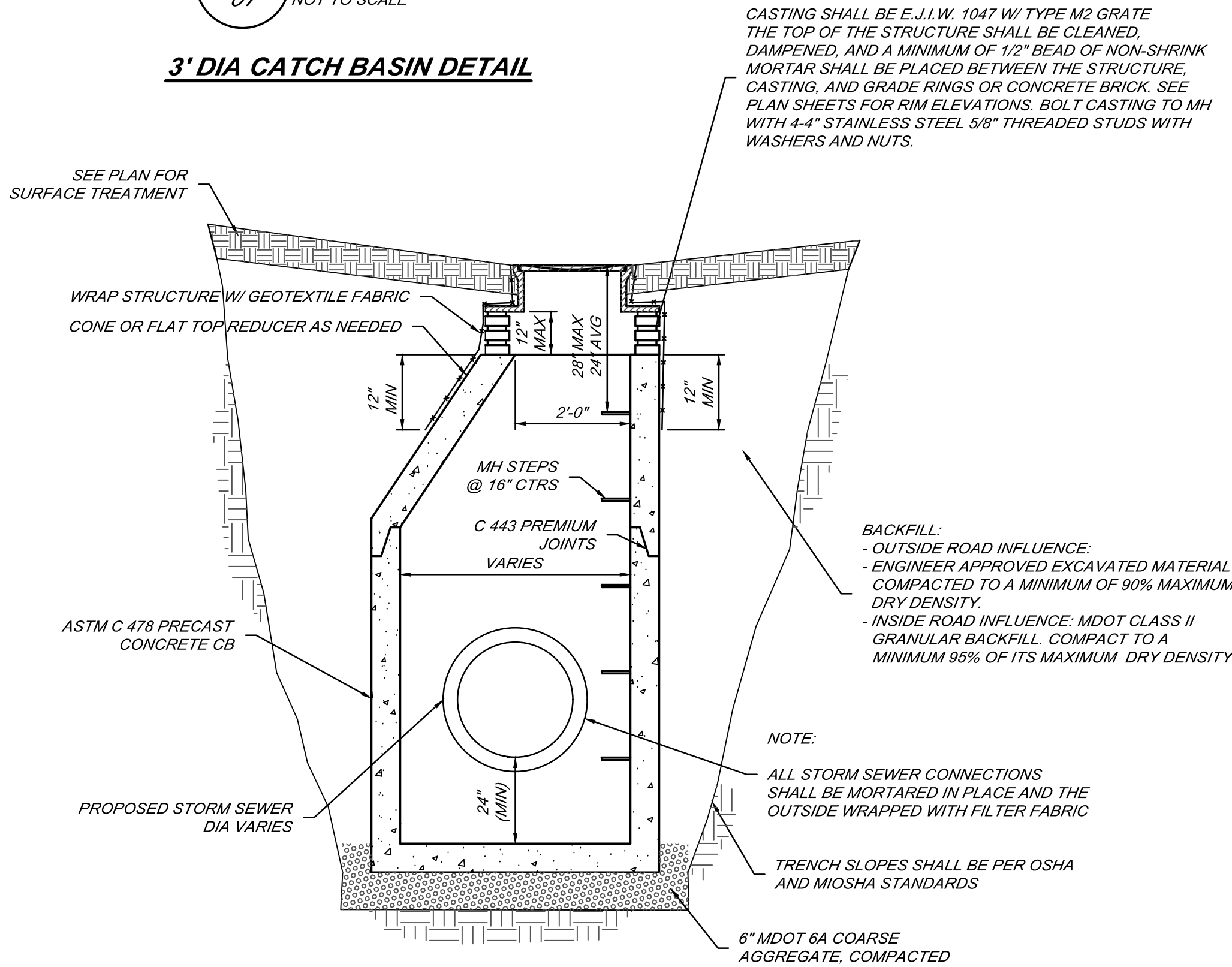
PLACE FRAME W/ GRATE. THE TOP OF THE STRUCTURE SHALL BE CLEANED, DAMPENED, AND A MINIMUM OF 1/2" BEAD OF NON-SHRINK MORTAR SHALL BE PLACED BETWEEN THE STRUCTURE, CASTING, AND GRADE RINGS OR CONCRETE BRICK.



SECTION A 07

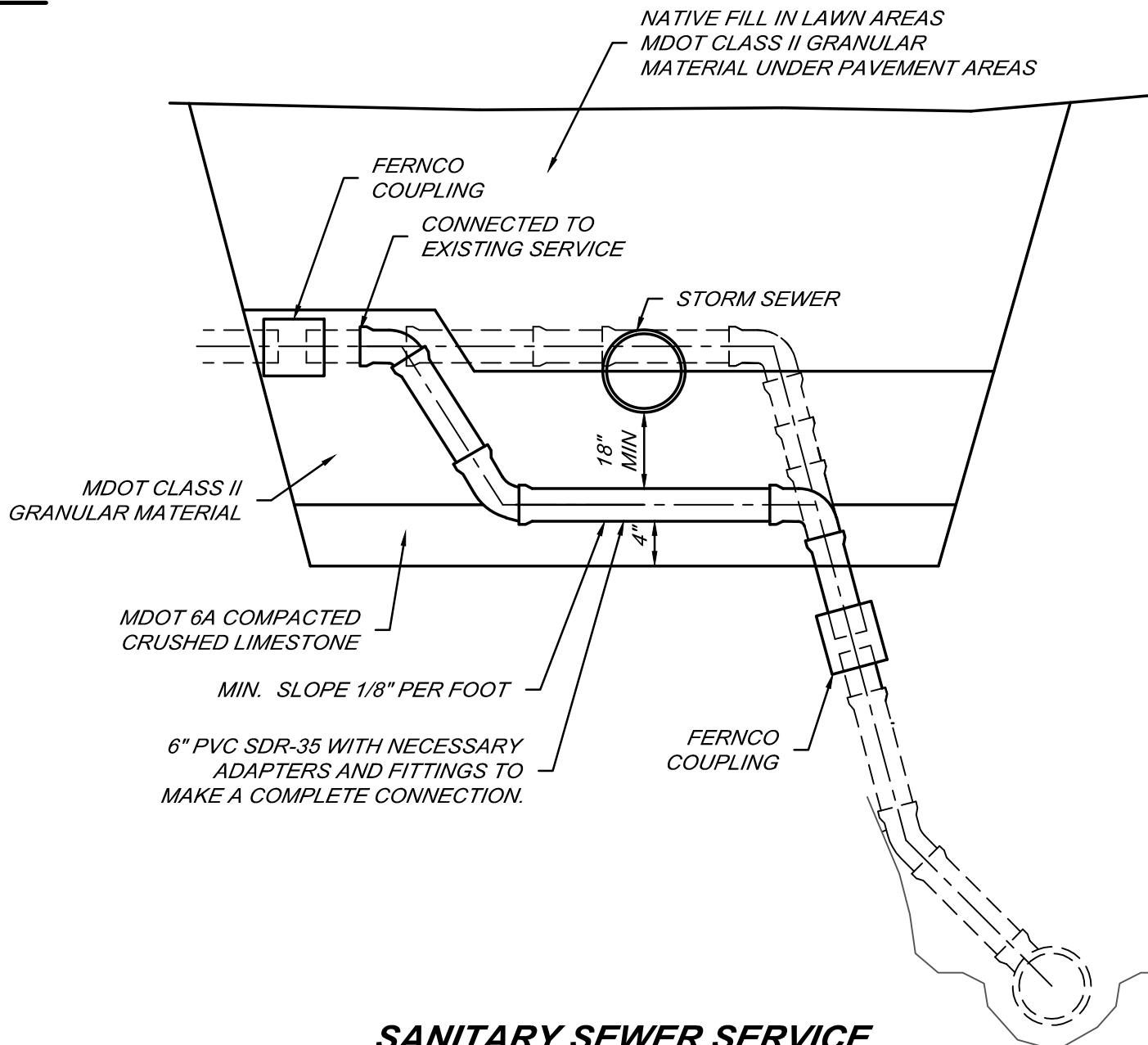
3' DIA CATCH BASIN DETAIL

NOT TO SCALE



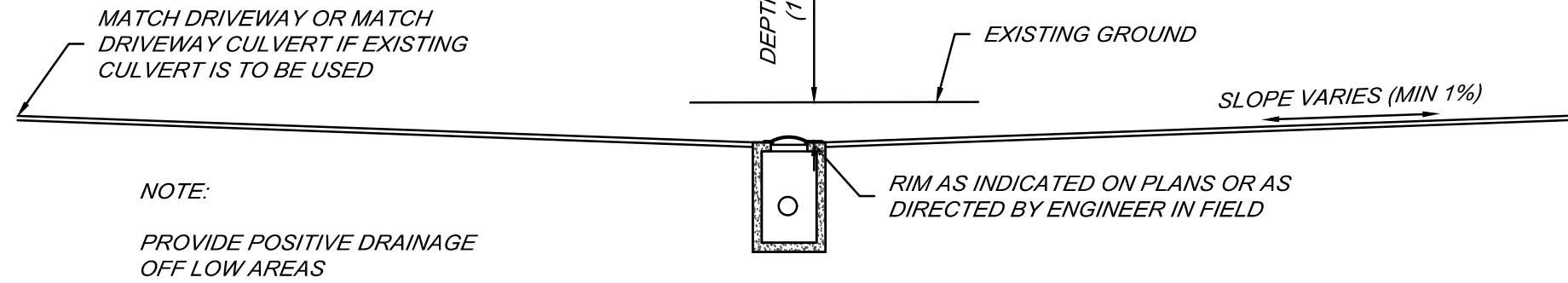
48"-72" DIA MANHOLE / CATCHBASIN DETAIL

NOT TO SCALE



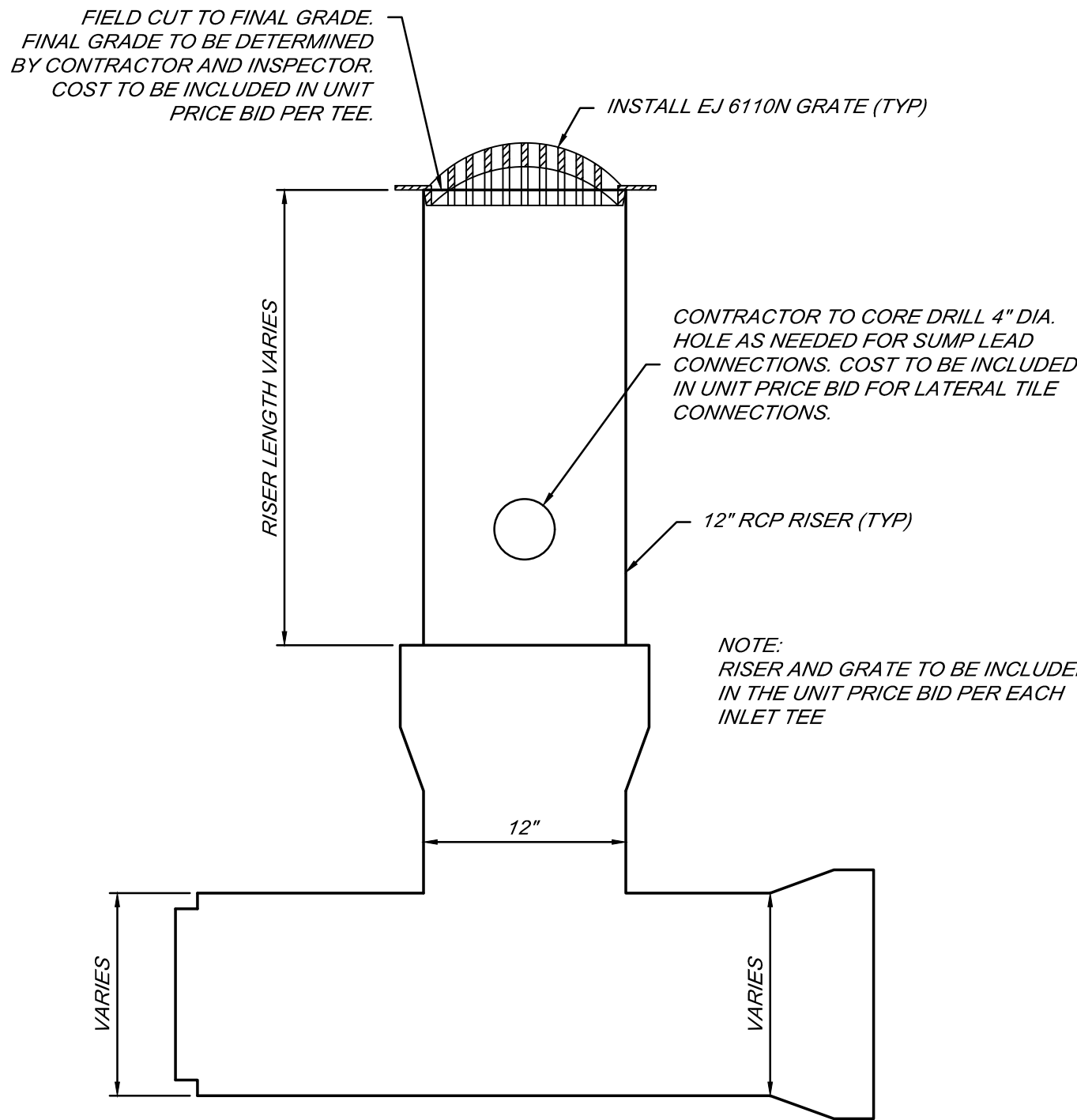
SANITARY SEWER SERVICE RELOCATION DETAIL

NOT TO SCALE



CATCH BASIN GRADING DETAIL


NOT TO SCALE

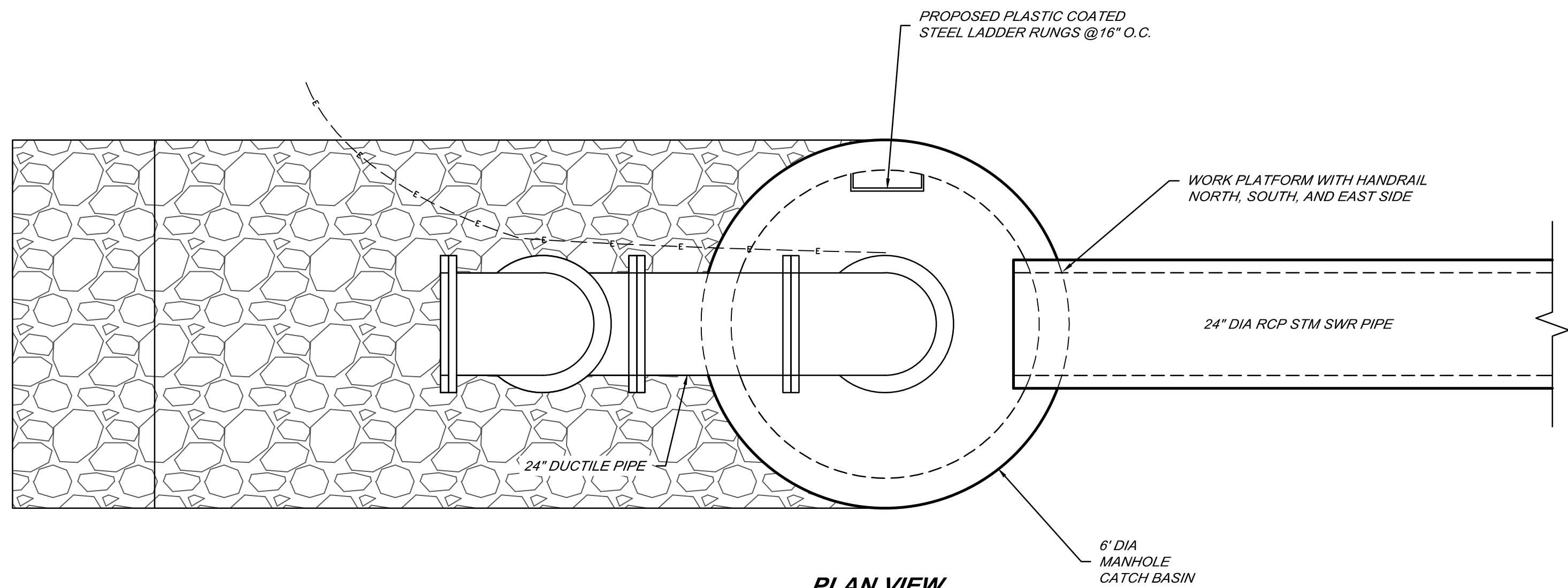
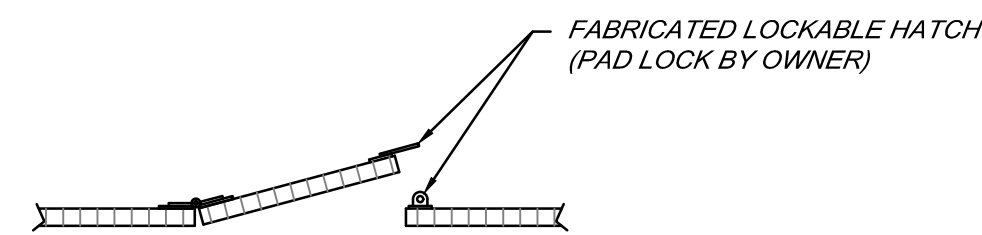
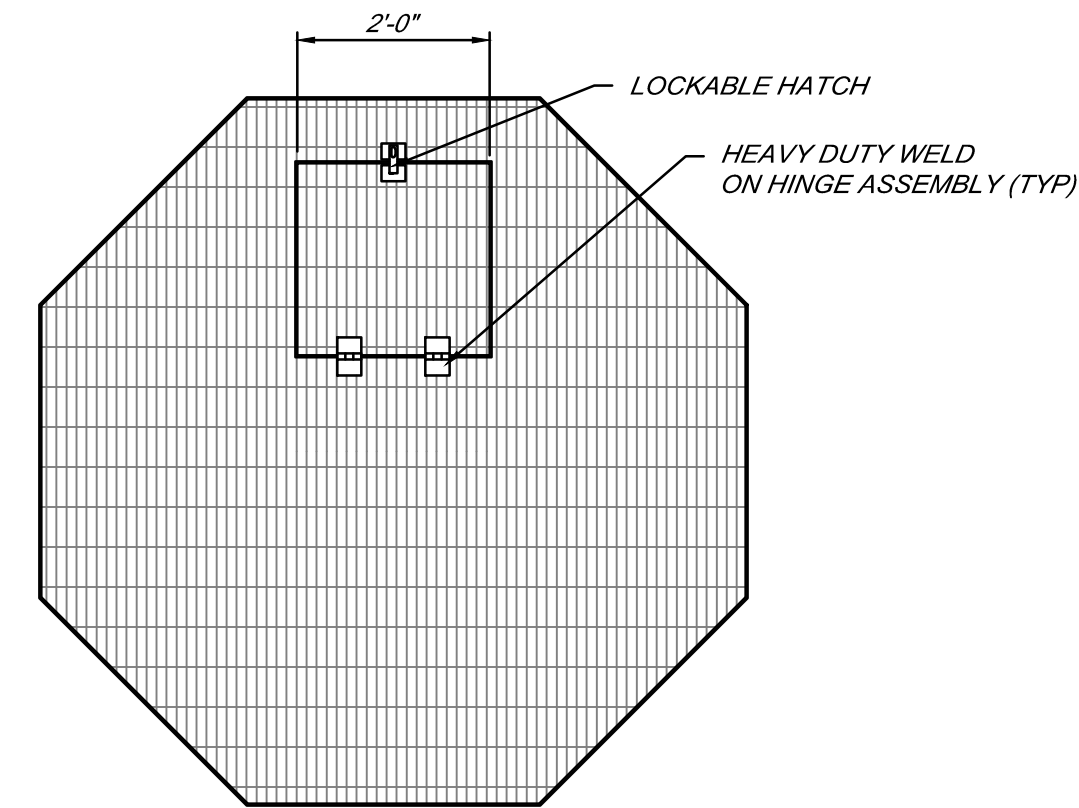
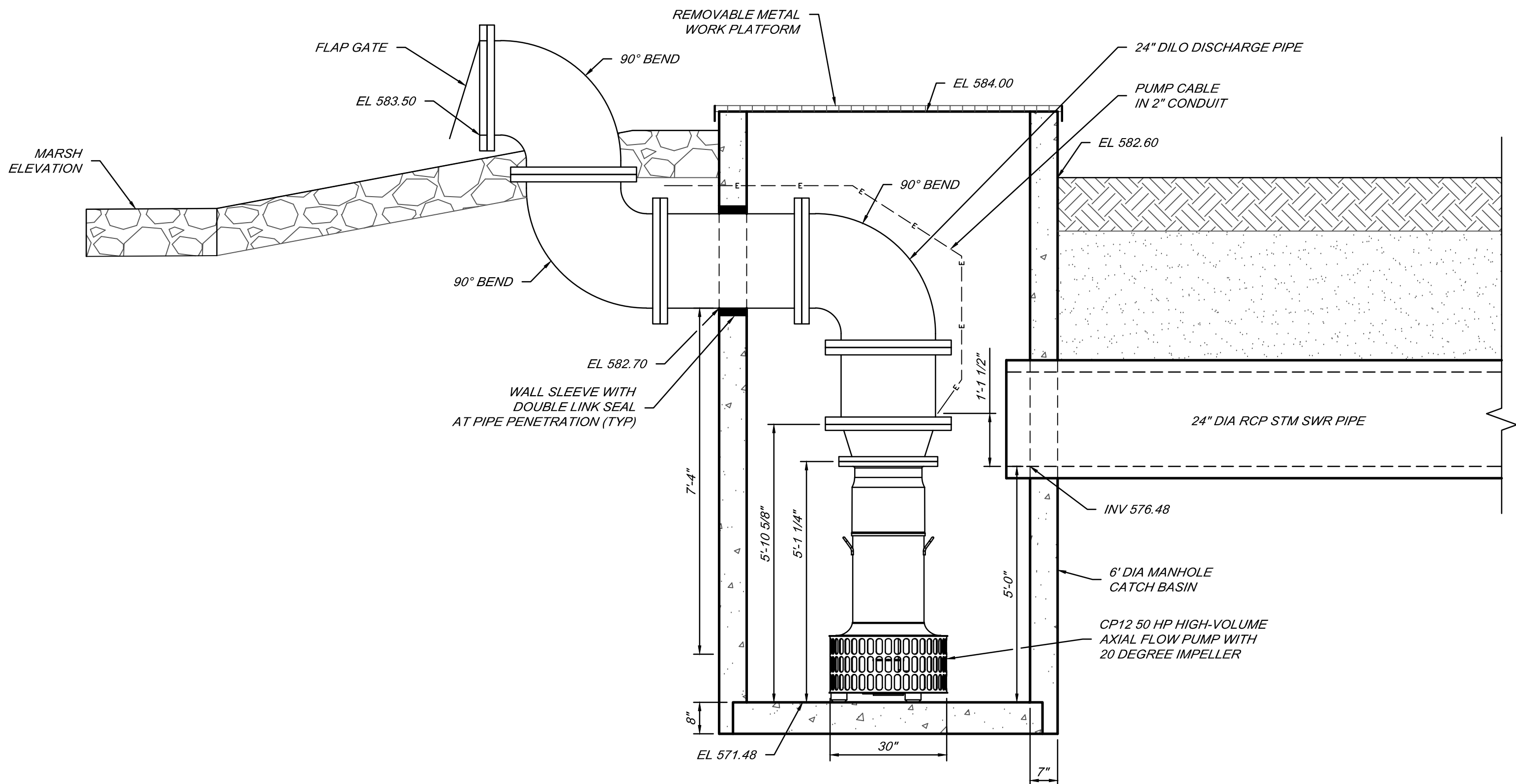


INLET TEE DETAIL


NOT TO SCALE

PRELIMINARY

BY	MARK	REVISIONS	DATE
THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREIN 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.			
S. LINWOOD BEACH ROAD - STORM SEWER BAY COUNTY,, MICHIGAN			
STANDARD DETAILS			
		SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel: 989-754-4717 Fax: 989-754-4440 www.SpicerGroup.com	
DE. BY: POC/CDV	CH. BY: CDV	PROJECT NO. 135699SG2023	
DR. BY: MJC	APP. BY: NDC	STDS. SHEET 07 OF 08	
DATE: JANUARY, 2025	FILE NO. DR-4835-07	DR 07	
SCALE: SCALE			



PRELIMINARY

BY	MARK	REVISIONS	DATE
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S. LINWOOD BEACH ROAD - STORM SEWER BAY COUNTY,, MICHIGAN			
PUMP STATION DETAILS			
		SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel: 989-754-4717 Fax: 989-754-4440 www.SpicerGroup.com	
DE. BY: POC/CDV	CH. BY: CDV	PROJECT NO. 135699SG2023	
DR. BY: MJC	APP. BY: NDC	SHEET 08 OF 08	
STDS.	DATE JANUARY, 2025	FILE NO. DR-4835-08	DR 08
SCALE AS SHOWN			

Board Meeting
March 11, 2024
Kawkawlin Township Board

Board met at 6:00 pm to review bills and payroll.
Trustee Campbell said a prayer before meeting.

Call Meeting to Order—Davidson called meeting to order at 7:00 pm with the pledge to the flag.

Roll Call of Officers—Present: DeShano, Campbell, Davidson, Klass
Absent: Kruse, excused

Minutes of February 12th—**Motion** made by Campbell/Davidson to approve Minutes **Passed**

Treasurer's Report—**Motion** made by Campbell/Davidson to accept Treasurer's report Yes: Davidson, Klass, DeShano, Campbell **Passed**

Fire Department Report—Each member received a copy of the monthly Fire Department report. Fire Marshall, Kurt Nitcschi reported Department has applied for several grants and that Captain Bernreuter gave some medical education training.

Motion made by Davidson/Campbell to accept Fire Department report **Passed**

Recreation Report—Trustee Campbell reported **Linwood Scenic Park** has received a \$48,000.00 grant from Dow and \$43,000.00 grant from Bay Area Community Foundation for the seawall project.

Campbell is looking into size of nets for soccer field and what to do with basketball hoop/net for the park at Kawkawlin Township.

Hall Report—None.

Bills and Payroll for approval—**Motion** made by Campbell/Klass to approve payroll Yes: Klass, Campbell, Davidson, DeShano **Passed**

Motion made by Campbell/Davidson to accept bills Yes: Davidson, DeShano, Klass, Campbell **Passed**

Communications— A. Building Report-report was given to all members
B. Zoning Administrator's report was given to all members.
C. Campbell added letter from Jeanne Woloshik, regarding drainage on S. Linwood Beach Road, to Communications

Motion made by Campbell/Davidson to accept Communications **Passed**

Public Input (3 min. limit, not Q & A session)-

1. Brad Eddy - 1890 S. Huron Rd.- spoke of trash assessments, Elite sign, FOIA appeals, attorney complaints and his web site
2. Bob Bragiel-President of Linwood Civic Improvement- Thanked Board for donation to Linwood Scenic Park project
3. Michele Penix-53 S. Linwood Beach Rd.- spoke of having no water access

Now Business-

A.- Twp Ins. upgrade- Motion made by Davidson/Campbell to pay increase in insurance bill, when it comes in, not to exceed \$9,000.00. Yes: DeShano, Campbell, Davidson, Klass **Passed**

3. Marty Patrick Hogan- 885 S. Linwood Beach Rd.- spoke of water on S. Linwood Bch Road from Boutell south, read letters from Todd & Anne Bridgewater and Michelle Kirchman about road water issues.
4. Jeannie Hogan-885 S. Linwood Beach Road. water/drainage issues on S. Linwood
5. Barb Bond-981 S. Linwood Beach Road. cause of water issues on her road
6. Randy Schmidt-913 S. Linwood history of Linwood Beach Road
7. Karen Schmidt-913 S. Linwood it on Linwood Beach Rd could be lowered.

April 8
2024

New Business-

- A. Saginaw Bay Cisma-Stephanie Hoyle, coordinator from Cisma, spoke about a habitat restoration project happening at Tobico Marsh. They plan a meeting in May with all the landowners adjacent to the Marsh and all those who are interested, concerning the invasive species management.
- B. Bay Co Fair/Youth Expo fund raiser- **Motion** made by DeShano/Klass to allow the use of Township hall for Youth Expo spaghetti dinner in November with a \$160.00 refundable security deposit and \$50.00 clean up fee. Yes: Klass, Kruse, Campbell, DeShano **Passed**
- C. FOIA appeal #2024-08- **Motion** made by DeShano/Campbell to revisit # 1 of FOIA #2024-08 at next Board meeting and provide information for #2, #3 and #4 Yes: DeShano, Campbell, Klass, Kruse **Passed**
- D. FOIA appeal #2024-18- **Motion** made by DeShano/Campbell to revisit this FOIA in May with the deeds present and a response from Joan Fackler, the Assessor. Yes: Kruse, Klass, DeShano, Campbell **Passed**
- E. FOIA appeal #2014-10- #2024-10- **Motion** made by Campbell/Klass to revisit FOIA in May and continue research for the next two weeks , if at that time no information can be found, we will contact Mrs. Pajot for a meeting and get copies of her papers. Yes: Kruse, Klass, Campbell, DeShano **Passed**
- F. Postage Meter- **Motion** made by Campbell/DeShano, since Molly Reinhardt is ill and she did the research, to table until May meeting **Passed**
- G. Wolverine Fireworks- **Motion** made by Campbell/DeShano to allow Wolverine to use Kawkawlin Township park on May 4th 2024 for a daytime firework demo/training session with a \$1,000.00 cash deposit for damage and clean up, subject to a representative of the Fire Department's approval of firework discharge site/weather on the day of display. Yes: Klass, DeShano, Campbell, Kruse **Passed**
- H. Newspaper Ad RFP 1yr Lawn Mowing- **Motion** made by DeShano/Campbell to table RFP for Lawn Mowing until there can be an in person work session by Board members **Passed**
- I. Newspaper Ad RFP 1yr Spraying/Trimming-**Motion** made by DeShano/Kruse to table RFP for Spraying and Trimming until there can be an in person work session by Board members. **Passed**
Motion made by DeShano/Kruse to authorize a Spring clean up of Township Park not to exceed \$500.00 Yes: Kruse, Klass, DeShano, Campbell **Passed**
- J. S. Linwood Beach (Boutell South)- **Motion** made by DeShano/Campbell that every Board Member be made fully apprised of results of the previous exploratory feasibility study. And to plan a public meeting on May 6th @ 7pm with the residents affected, Spicer and Board Members. Yes: Kruse, Klass, DeShano, Campbell **Passed**
- K. Zoning Report- **Motion** made by DeShano/Kruse to insist the Zoning Administrator include parcel number and/or address on his zoning report . **Passed**

FYI:

- A. Bay Metro will not be using our office building during their remodeling
- B. Sheriff Report- none

Adjournment—Motion to adjournment was made by DeShano/ Kruse at 10:10pm **Passed**

Next Board Meeting May 13, 2024 7:00 pm

Board Meeting
May 13, 2024
Kawkawlin Township Board

Board met at 6:00 pm to review bills and payroll.
Trustee Campbell said a prayer before meeting.

Call Meeting to Order—Davidson called meeting to order at 7:00 pm with the pledge to the flag.

Roll Call of Officers—Present: DeShano, Campbell, Kruse, Klass, Davidson

Motion made by DeShano/Campbell to amend agenda to include in Unfinished Business issues that should have been carried over from April 8th meeting;

C. FOIA appeal #2024-08,

D. FOIA appeal #2024-18, and

E. FOIA appeal 2024-10, and to include in New Business;

H. RFP Lawn Mowing and

I. RFP Spraying

And to strike approving meeting minutes from April 2nd since they were approved at the April 8th meeting.

Yes: Campbell, Kruse, Klass, DeShano, Davidson **Passed**

Minutes of April 8th-Motion made by Davidson/Campbell to approve Minutes with the correction under New Business E. should read FOIA appeal #2024-10 **Passed**

Treasurer's Report—Motion made by Campbell/DeShano to accept Treasurer's report Yes: Kruse, Klass, DeShano, Campbell, Davidson **Passed**

Fire Department Report—Steve Bernreuter reported the 3 recruits have passed the practical part of test and are waiting to hear results of written portion of test, the engine is out being serviced, chief is out on sick leave, urinal in the restroom in fire department is not working and a Fire Department run report has been emailed to all Board Members.

Supervisor Davidson introduced Chuck Hewitt, who is an attorney with Smith & Brooker and filling in for Justin Ebel, who was unable to attend meeting.

Recreation Report—Trustee DeShano reported **bids** were received for work at the **Scenic Point**. Trustee Campbell would like to move forward with purchasing soccer nets for the park and this will be added to New Business J.

Hall Report—None.

Bills and Payroll for approval—Motion made by DeShano/Campbell to approve payroll. Yes: Klass, Campbell, Kruse, DeShano, Davidson **Passed**

Motion made by Campbell/DeShano to approve bills with the exception of only paying \$2,767.60 of the \$4,708.35 Spicer bill and requesting an itemized bill for the remainder of that bill. Yes: Kruse, DeShano, Klass, Campbell, Davidson **Passed**

Motion made by Davidson/Kruse to have Davidson call to get an itemized bill for the balance of Spicer's bill **Passed**

Communications— A. Building Report-report was given to all members. Campbell informed everyone of Dick Sabias passing and asked for a moment of silence for the Sabias family.

B. Zoning Administrator's report – none

C. Fraser Rd. repair- Board received letter from Road Commission updating project on Fraser Road, they have the dura patcher and the product for it and just waiting to get people trained

Public Input (3 min. limit, not Q & A session)-

1. Keith Sauer- 115 E. River Rd.- well water in his area is poor quality and he and neighbors are hoping water line comes down his road soon
2. Brad Eddy-1890 S. Huron Rd. -expressed his condolences on Mr. Sabias's passing, concerned about the deeds of four Township owned properties, and spoke of water problems and water ponding on his property
3. Lisa Eurich- 2890 Two Mile Rd.- wants emails about 18 boxes of paperwork put into correspondence
4. Amanda Noonan-2185 S. Huron Rd.- concerned about a lighted billboard shining into their house
5. Brad Eddy- spoke about Elite sign
6. Charles Campbell- Concerned about blight on M-13
7. Tom Ciaciuch- 2218 Seven Mile Rd.- would like to see everyone be nice to each other and get along and work together

Unfinished Business-

- A. S. Linwood Beach Engineering- **Motion** made by Campbell/Davidson to pay Spicer \$43,000.00 to draw up drainage design for S. Linwood Beach Rd. Yes: Campbell Davidson, Kruse, Klass, DeShano **Passed**
- B. Postage Meter- **Motion** made by Campbell/Kruse to lease a new postage meter, the Vision S3, from Automated Business Equipment, for \$5,295.00. Yes: Campbell, Davidson, Kruse, Klass, DeShano **Passed**
- C. 2024-08 FOIA appeal- **Motion** made by Campbell/Davidson that the data has been collected by Kruse, as of 5-13-24, and she will get it to Mr. Eddy. Yes: Davidson, Kruse, Klass, DeShano, Campbell **Passed**
- D. 2024-18 FOIA appeal- **Motion** made by Campbell/Davidson that copies of deeds and Joan Fackler's answer to the FOIA will be given to all Board members. Yes: Kruse, Klass, DeShano, Campbell, Davidson **Passed**
- E. 2024-10 FOIA appeal- **Motion** made by Davidson/Campbell to contact Pat Pajot to get the information she has on rezoning of her property Yes: Klass, DeShano, Campbell, Davidson, Kruse **Passed**

New Business-

- A. New Fire Truck- The cost of the new fire truck is \$710,301.00 and needs to be paid by June 1, 2024. **Motion** made by Davidson/Klass to loan Fire Department \$310,301.00 from checking account at 2% interest, with the first annual payment due April 1, 2025 to go along with \$400,000.00 from Fire Department for total payment of new truck. Yes: Campbell, Davidson, Kruse, Klass No: DeShano **Passed** **Motion** made by Campbell/DeShano to put the money from the sale of the old fire truck against the debt of new truck. Yes: Campbell, Davidson, Kruse, Klass, DeShano **Passed**
- B. 2024 Road Repairs-Estimated cost from Road Commission to put final seal coat on Schmidt Rd (Mackinaw Rd. to end), put 2 seal coats on River Rd (7 to 8 Mile) and Boutell Rd (Fraser to Mackinaw) and crush and shape Cottage Grove (7 to 8 Mile) is \$186,112.00. County will pay \$20,000.00 **Motion**

PRELIMINARY ESTIMATE OF COST
S. LINWOOD BEACH DRAINAGE
KAWKAWLIN TWP, BAY COUNTY, MICHIGAN
February 10, 2025

Item No.	Estimated Quantity	Unit	Description	Unit Price	Total Amount
<u>S. LINWOOD BEACH DRAINAGE</u>					
<u>STORM SEWER</u>					
1.	13	Each	3' Dia. Manhole/Catch Basin (Includes casting frame, grate, and adjustment)	\$4,000.00	\$52,000.00
2.	14	Each	4' Dia. Manhole/Catch Basin (Includes casting frame, grate, and adjustment)	\$6,000.00	\$84,000.00
3.	13	Each	5' Dia. Manhole/Catch Basin (Includes casting frame, grate, and adjustment)	\$8,000.00	\$104,000.00
4.	1	Each	6' Dia. Manhole/Catch Basin (Includes casting frame, grate, and adjustment)	\$9,000.00	\$9,000.00
5.	1,594	Lin. Ft.	12" R.C.P. (C-76 CL III) (With Wrapped Joint)	\$65.00	\$103,610.00
6.	836	Lin. Ft.	15" R.C.P. (C-76 CL III) (With Wrapped Joint)	\$85.00	\$71,060.00
7.	1,146	Lin. Ft.	18" R.C.P. (C-76 CL III) (With Wrapped Joint)	\$100.00	\$114,600.00
8.	114	Lin. Ft.	24" R.C.P. (C-76 CL III) (With Wrapped Joint)	\$120.00	\$13,680.00
<u>RESORATION</u>					
9.	510	Sq. Yd.	Concrete Drive Restoration	\$70.00	\$35,700.00
10.	302	Sq. Yd.	Bituminous Drive Pavement Restoration	\$90.00	\$27,180.00
11.	180	Sq. Yd.	Bituminous Road Pavement Restoration	\$100.00	\$18,000.00
12.	130	Sq. Yd.	Gravel Drive Restoration	\$25.00	\$3,250.00
<u>SOIL EROSION AND SEDIMENT CONTROL</u>					
13.	50	Sq. Yds.	Miscellaneous Plain Riprap	\$80.00	\$4,000.00
<u>MISCELLANEOUS ITEMS</u>					
14.	25	Each	Relocate/Lower Existing Water Service	\$450.00	\$11,250.00
15.	2	Each	Relocate/Lower Existing 8" Water Main	\$30,000.00	\$60,000.00

Item No.	Estimated Quantity	Unit	Description	Unit Price	Total Amount
16.	20	Each	Relocate/Lower Existing Sanitary Service	\$1,500.00	\$30,000.00
17.	1	Lump Sum	Seeding, Mulch, and Fertilize	Lump Sum	\$50,000.00
18.	1	Lump Sum	Site Clearing	Lump Sum	\$10,000.00
19.	1	Lump Sum	Cleanup and Restoration	Lump Sum	\$50,000.00
20.	1	Lump Sum	Traffic Control	Lump Sum	\$30,000.00
21.	150	Cu. Yd.	Sub Grade Undercut (As-Needed)	\$30.00	\$4,500.00

PUMP STATION

22.	1	Lump Sum	Pump Station (Includes Discharge Pipe and Flapgate) (Approximately 9200 GPM Pump)	Lump Sum	\$325,000.00
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SUB-TOTAL CONSTRUCTION COST -----	\$1,210,830.00
Survey, Engineering, and Design-----	\$100,000.00
Permitting-----	\$15,000.00
Easement Preparation (±40 parcels)-----	\$150,000.00
Construction Administration, Staking, and Inspection (12% ±)-----	\$146,000.00
Administration, Financing -----	\$60,000.00
Sub-Total-----	\$1,681,830.00
Contingency (15% ±)-----	\$253,170.00

TOTAL ESTIMATE OF COST -----	\$1,935,000.00
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