US Army Corps of Engineers
St Paul District

Public Notice

APPLICANT: David H. Biebel – City of Sheboygan

ISSUED: 06/06/2022
EXPIRES: 07/06/2022

REFER TO: MVP-2021-01125-SJW

SECTION: 404 - Clean Water Act
10 – Rivers and Harbors Act

1. APPLICATION FOR PERMIT TO permanently discharge fill material (rock riprap/breaker rock) below the plane of the ordinary high water mark (OHWM) along 6,400 linear feet (5.45 acres) of aquatic bed on Lake Michigan as part of a proposed Southside Interceptor System (SIS) Restoration and Shoreline Protection project located in the City of Sheboygan.

2. SPECIFIC INFORMATION

AGENT

Tom Ludwig
Foth Environment & Infrastructure
7044 S. Ballpark Drive, Suite 200
Franklin, Wisconsin 53132

PROJECT LOCATION: The project site is located in the NE ¼ NW ¼ of Section 26, Township 15 North, Range 23 East, Sheboygan County, Wisconsin. The approximate UTM coordinates are N 442948.14425, E 4841808.754487. Latitude 43.727116, Longitude -87.70836. The project area extends between the Kentucky Avenue Pump Station, and the Lake View Park and Wastewater Treatment Plant (see attached project location figures).

DESCRIPTION OF PROJECT: The Southside Interceptor System (SIS) in the City of Sheboygan is located along the shore of Lake Michigan between the Kentucky Avenue Pump Station (KAPS) and the Wastewater Treatment Plant (WWTP). The original system piping was installed in the early 1930s and consists of approximately 512 linear feet of 36-inch case iron forcemain and approximately 9,300 linear feet of 60-inch concrete interceptor sewer, which runs along the lakeshore to the WWTP. There has been subsequent maintenance and repairs to this facility since its original installation. Most recently, in 1977, nine manholes were restored, two new manholes were constructed, and heavy riprap was placed for protection against erosion. Currently, there are 21 concrete manhole covers along the interceptor that provide access to the pipeline for maintenance and cleaning. In the 1980s, the interceptor was cleaned, and a number of manhole structures south of High Avenue were replaced. Since that time, no significant improvements have been made to the system.

The proposed project will provide the required protection for the new sanitary sewer infrastructure, incorporate a maintenance access road into the design, remove debris and restore existing storm water plunge pools, and lead to a manageable design elevation for the maintenance access and the top of manhole structures. In addition, the proposed project would include the removal of concrete/wood debris and 17 existing rock groins which are no longer effective. The proposed armor stone revetment associated with the project will serve to replace the rock groin structures which would be removed, and will dissipate wave energy resulting in lower required crest elevation. In addition, the armor stone revetment will provide a stable base for the incorporation of the rock maintenance access road. This project will also include reconstruction of the Lakeview Park area including a new parking lot as well as an upgraded stormwater drainage. This new facility may also provide additional opportunities for public access along this portion of the Lake Michigan shoreline.

QUANTITY, TYPE, AND AREA OF FILL: As proposed, the project would result in the permanent discharge of fill material (rock riprap/breaker rock) below the plane of the ordinary high water mark (OHWM) along 6,400 linear feet (5.45 acres) of aquatic bed on Lake Michigan.

VEGETATION IN AFFECTED AREA: The regulated discharges associated with the proposed project would occur beneath the plane of the OHWM onto the aquatic bed of Lake Michigan which is comprised of a mix of sand and gravel materials, and generally lacks any type of aquatic vegetation.

SOURCE OF FILL MATERIAL: The fill material (rock riprap/breaker rock) will be sourced from a local quarry.

SURROUNDING LAND USE: The project site is located along the western shoreline of Lake Michigan in the City of Sheboygan. Lands situated immediately adjacent to the project site (west) are comprised entirely of single-family residential developments and the associated roadways/infrastructure.

THE FOLLOWING PRECAUTIONS TO PROTECT WATER QUALITY HAVE BEEN DESCRIBED BY THE APPLICANT: The applicant has stated that actions have been incorporated into the project design which include controlling runoff and other discharges. In addition, the design will not discharge water with contaminant concentrations higher than calculated effluent limits as applied to the facility by the WDNR through the revetment structure.

MITIGATION: The applicant has not provided a compensatory mitigation proposal/statement.

3. FEDERALLY LISTED THREATENED OR ENDANGERED WILDLIFE OR PLANTS OR THEIR CRITICAL HABITAT

None were identified by the applicant or are known to exist in the permit area. However, Sheboygan County is within the known or historic range of the following Federally listed species:

Northern Long-Eared Bat	Hibernates in caves and mines – swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests during spring and summer.
Red Knot	Coastal sandy beaches from mid-May to early June in Spring, and from mid-July to early November in the Fall.
Rusty Patched Bumble Bee	Prairies, woodlands, marshes, agricultural landscapes and residential parks and gardens.
Eastern Prairie Fringed Orchid	Mesic prairie to wetlands such as wet meadows, marsh edges, and bogs.
Pitcher’s Thistle	Open sand dunes adjacent to the Great Lakes

This application is being coordinated with the U.S. Fish and Wildlife Service. Any comments it may have concerning Federally listed threatened or endangered wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

4. JURISDICTION

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act.

5. SECTION 401 WATER QUALITY CERTIFICATION

Valid Section 404 permits cannot be issued for any activity unless water quality certification for the activity is granted or waived pursuant to Section 401 of the Clean Water Act. The Section 401 authority for this project is the Wisconsin Department of Natural Resources (WDNR). A Department of the Army permit will not be granted until the WDNR has issued or waived Section 401 WQC certification and the U.S. Environmental Protection Agency (USEPA) neighboring jurisdiction process is completed. Corps Section 404 Clean Water Act decisions may not be finalized until after the USEPA completes this process.

6. HISTORICAL/ARCHAEOLOGICAL

This public notice is being sent to the National Park Service and the State Archaeologist for their comments. The Corps will review information on known cultural resources and/or historic properties within and adjacent to the project area. The Corps will also consider the potential effects of the project on any properties that have yet to be identified. The results of this review and the Corps' determination of effect will be coordinated with the State Historic Preservation Officer independent of this public notice. Any adverse effects on historic properties will be resolved prior to the Corps authorization, or approval, of the work in connection with this project.

7. PUBLIC HEARING REQUESTS

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, in detail, the reasons for holding a public hearing. A request may be denied if substantive reasons for holding a hearing are not provided or if there is otherwise no valid interest to be served.

8. PUBLIC INTEREST REVIEW

The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. Environmental and other documents will be available for review in the St. Paul District Office.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

9. COASTAL ZONE MANAGEMENT.

This Public Notice has been sent to the agency responsible for Coastal Zone Management and is considered by the District Engineer to constitute valid notification to that agency for a Coastal Zone Consistency determination.

REPLIES/COMMENTS

Interested parties are invited to submit to this office written facts, arguments, or objections by the expiration date indicated above. These statements should bear upon the suitability of the location and the adequacy of the project and should, if appropriate, suggest any changes believed to be desirable. Comments received may be forwarded to the applicant.

Replies may be sent to Sam Woboril at samuel.j.woboril@gmail.com

IF YOU HAVE QUESTIONS ABOUT THE PROJECT, contact Sam Woboril at the Stevens Point field office at (651) 290-5878 or by email at samuel.j.woboril@usace.army.mil.

To receive Public Notice notifications, go to: https://www.mvp.usace.army.mil/Contact/RSS/ and subscribe to the RSS Feed for which you would like to receive Public Notices.

Enclosures:
Project Figures Labeled: MVP-2021-01125-SJW: Page 1 of 20 through 20 of 20.

CITY OF SHEBOYGAN
SOUTHSIDE INTERCEPTOR SYSTEM

SHORELINE INFRASTRUCTURE PROTECTION AND ACCESS ROAD

- LAKE MICHIGAN HAS RISEN 3 TO 4 FEET IN PAST 4 YEARS
- SHORLINE RAPIDLY ERODING EXPOSING CRITICAL 1930s SEWAGE INFRASTRUCTURE
- SEWAGE INFRASTRUCTURE SERVES OVER HALF CITY POPULATION
- LAKE LEVELS HAVE CUT OFF MAINTENANCE ACCESS

KENTUCKY AVE PUMP STATION

EXISTING 36" CAST IRON FORCEMAIN

EXISTING 60" CONCRETE INTERCEPTOR

OTHER EXISTING SANITARY SEWER

MANHOLE IMPROVEMENTS
(RE-ESTABLISH ACCESS AND PROTECTION)

SHORELINE REVETMENT

Foth

2021
SOUTHSIDE INTERCEPTOR SYSTEM
SHORELINE INFRASTRUCTURE PROTECTION AND ACCESS

CITY OF SHEBOYGAN
SHEBOYGAN, WI
SHEBOYGAN BID # 2459-21
FOTH PROJECT NO. 21S042.00

PRELIMINARY - 90% COMPLETE

SUBJECT TO CHANGE

UTILITY AND EMERGENCY TELEPHONE NUMBERS

CITY OF SHEBOYGAN - SHEBOYGAN, WI

EMERGENCY:	911
ALLIANT ENERGY - BEN REISEN	(920) 459-6367
AT&T - LISA SUPRENAND	(920) 929-8459
CHARTER COMM. - RON MUELLER	(414) 312-2652
WI PUBLIC SERVICE - MIKE LOWTHER	(920) 451-3743
SHEBOYGAN WATER UTILITY - DAVE MCMILLAN	(920) 459-3839

OWNER CONTACT INFORMATION

RYAN SAZAMA, P.E.
CITY ENGINEER
CITY OF SHEBOYGAN ENGINEERING DEPT.
2026 NEW JERSEY AVENUE
SHEBOYGAN, WI 53081
(920) 459-3485

ENGINEER CONTACT INFORMATION

BRYAN HEINZELMAN, P.E.
FOTH INFRASTRUCTURE & ENVIRONMENT, LLC
7044 SOUTH BALLPARK DRIVE, SUITE 200
FRANKLIN, WI 53132
(262) 505-0371

PROPERTY ADDRESS

FROM INDIANA AVE. SOUTH TO SHEBOYGAN WWTP

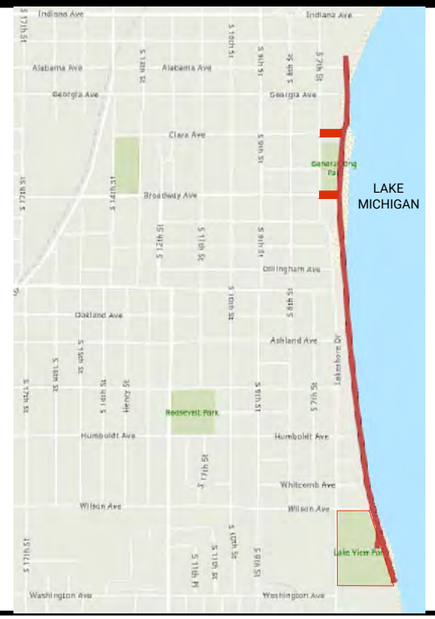
UTILITY NOTES

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBLITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT (800) 292-8989 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.

UTILITY CONFLICTS DISCOVERED DURING CONSTRUCTION WILL BE ADDRESSED AT THE TIME OF DISCOVERY.

LOCATION MAP



STATE & COUNTY LOCATION

STATE: WISCONSIN COUNTY: SHEBOYGAN

INDEX OF SHEETS

VERTICAL DATUM:

NAVD88

HORIZONTAL DATUM:

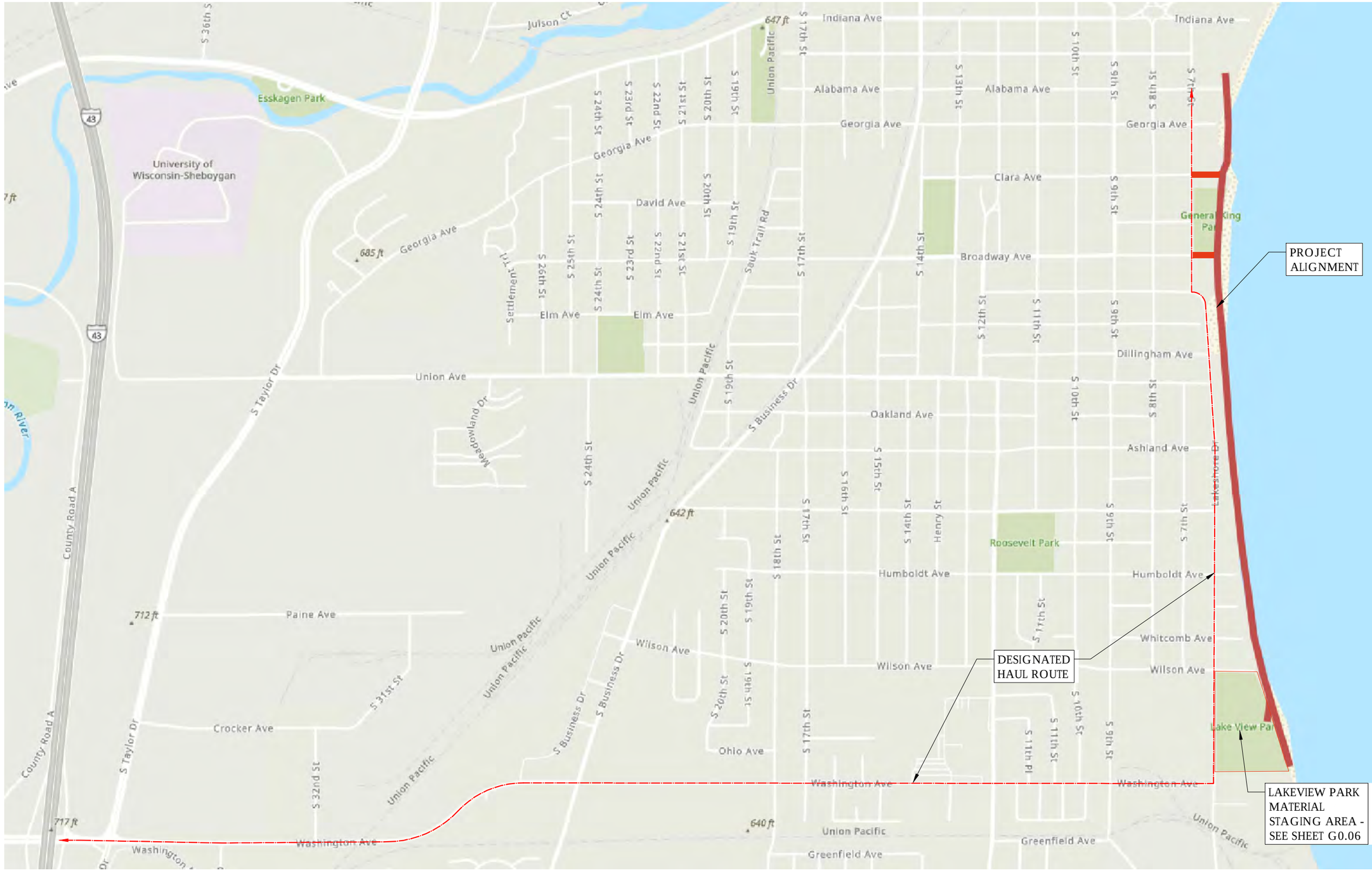
WISCONSIN COORDINATE REFERENCE SYSTEM (WisCRS), SHEBOYGAN COUNTY, NAD83

ANY SURVEY MONUMENTS THAT ARE DAMAGED MUST BE REPLACED IN ACCORDANCE WITH WISDOT S.D.D. 16 A 01

FOTH PROJ. #: 21S042.00

SHEET #: X.000

FOTH INFRASTRUCTURE & ENVIRONMENT, LLC



PREPARED FOR:

CITY OF SHEBOYGAN

PREPARED BY:

Foth

Solving our clients' toughest science and engineering challenges

OFFICE OF ORIGINATION:

Foth Infrastructure & Environment, LLC
7044 South Ballpark Drive, Suite 200
Franklin, WI 53132
Phone (414) 336-7900

DISCLAIMER:

REUSE OF DOCUMENTS
THIS DOCUMENT HAS BEEN DEVELOPED FOR A SPECIFIC APPLICATION AND NOT FOR GENERAL USE. THEREFORE IT MAY NOT BE USED WITHOUT THE WRITTEN APPROVAL OF FOTH INFRASTRUCTURE AND ENVIRONMENT, LLC. UNAPPROVED USE IS THE SOLE RESPONSIBILITY OF THE UNAUTHORIZED USER.

NO	DATE	BY	REVISION DESCRIPTION

SOUTHSIDE INTERCEPTOR SYSTEM SHORELINE INFRASTRUCTURE PROTECTION AND ACCESS

ACCESS & HAUL ROUTE

SHEBOYGAN, WI

CAD FILE: C:\pw_workdir\pw_ekmith2\d0487350\21S042.00-G0.02.dwg

DESIGNED: CWD	DRAWN: CWD	CHECKED: XXX
LETTING DATE: ##/##/####		PRINT DATE: 08/02/2022
PROJECT NO: 21S042.00		SHEET NO. G0.02

GENERAL PROJECT NOTES

CONSTRUCTION SEQUENCE

1. A PRECONSTRUCTION MEETING MUST BE HELD BEFORE ANY CONSTRUCTION ACTIVITIES TAKE PLACE.
2. THE CONTRACTOR IS REQUIRED TO NOTIFY THE DNR OF ALL OFFSITE DISPOSAL LOCATIONS, INCLUDING ESTIMATED QUANTITIES, PRIOR TO EXPORTING MATERIAL FROM THE SITE.
3. ONCE CONSTRUCTION BEGINS CONTINUOUS PROGRESS MUST BE MADE UNTIL SUBSTANTIAL COMPLETION HAS BEEN OBTAINED.
4. CONTRACTOR SHALL INSTALL EROSION CONTROLS AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER BEFORE ANY GRADING ACTIVITIES TAKE PLACE.
5. CONTRACTOR SHALL INSTALL ALL TRAFFIC CONTROL AND ACCESS CONSTRUCTION WORK AREAS AS SHOWN.
6. TRAFFIC WILL BE MAINTAINED AT ALL TIMES.
7. CONTRACTOR SHALL STRIP / SALVAGE, STOCKPILE PRIOR TO CONSTRUCTION AND RESPREAD TO EXISTING TOPSOIL DEPTHS.
8. CONTRACTOR SHALL INSTALL DRIVEWAY CULVERTS AND RE-INSTALL ANY STORM SEWER DISTURBED DURING CONSTRUCTION.
9. RESTORATION SHALL BE COMPLETED PROMPTLY FOLLOWING APPROVED PIPE INSTALLATION AND BACKFILL OPERATIONS.
10. EROSION CONTROL DEVICES SHALL BE REMOVED AFTER VEGETATION IS ESTABLISHED.

GENERAL NOTES

1. CONTRACTOR SHALL NOT DISTURB WETLANDS DESIGNATED AS "RESTRICTED NO IMPACTS" (SEE EROSION CONTROL PLANS FOR LOCATIONS.
2. ALL TRAFFIC CONTROL SHALL BE IN COMPLIANCE WITH THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THESE PLANS AND SPECIAL PROVISIONS. SEE WISDOT S.D.D. 15 D 28-1 AND 15 D 20 FOR ADDITIONAL REQUIREMENTS.
3. CONTRACTOR SHALL REMOVE ALL SIGNS, PROTECT AND CONFIRM WITH OWNER PRIOR TO REINSTALLATION. OWNER MAY PROVIDE NEW SIGNAGE PRIOR TO INSTALLATION.
4. CONTRACTOR SHALL PROVIDE ACCESS TO TRAFFIC AT ALL TIMES. COORDINATE WITH PROPERTY OWNERS FOR ALL WORK BLOCKING DRIVEWAYS.
5. ALL MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE. THIS WORK IS INCIDENTAL TO THE PROJECT UNLESS A SPECIFIC BID ITEM IS INCLUDED IN THE PROJECT MANUAL.

RESTORATION NOTES

1. ALL DISTURBED AREAS SHALL BE GRADED TO RESTORE ORIGINAL CONTOURS.
2. SOIL LAYERS SHALL BE SEGREGATED DURING CONSTRUCTION ACTIVITIES, FOLLOWED BY REPLACEMENT OF SOILS IN KIND.
3. CLASS I TYPE B EROSION CONTROL MATTING WILL BE USED TO STABILIZE SLOPES WHERE CHANNELIZED FLOW IS PRESENT.
4. LANDSCAPED AREAS SHALL BE SEEDED PER RESTORATION PLANS WITHIN FOURTEEN DAYS FOLLOWING PIPE TESTING ACTIVITIES AND NO LATER THAN SUBSTANTIAL COMPLETION.
5. SEEDED AREAS SHALL BE WATERED DURING THE FIRST EIGHT WEEKS FOLLOWING INSTALLATION WHENEVER MORE THAN SEVEN CONSECUTIVE DAYS OF DRY WEATHER OCCUR.

UTILITY NOTES

1. CONTRACTOR IS RESPONSIBLE AND SHALL MAINTAIN ALL DRAINAGE WITHIN THE PROJECT WORK AREA, INCLUDING RIGHT-OF-WAY ACCESS LOCATIONS DURING CONSTRUCTION.
2. ALL SANITARY SEWER SHALL BE BACKFILLED PER TRENCH CONSTRUCTION DETAILS AND AS DESIGNATED ON THE PLAN PROFILE SHEETS.
3. SUPPORT EXISTING UTILITIES AT CROSSINGS AS NECESSARY TO PREVENT DAMAGE OR INTERRUPTION OF SERVICE.
4. STORM ENDWALL THAT IS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH WISDOT S.D.D. 08 F01 AND 08 F 02. INSTALL FLEXIBLE MARKER POST IN ACCORDANCE WITH WISDOT S.D.D. 15 A 03.

MATERIALS MANAGEMENT NOTES

1. DUE TO LIMITED SITE STORAGE AREA, ALL EXCAVATED MATERIAL WILL BE DISPOSED OF OFF SITE AND IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR WILL NEED TO INFORM THE OWNER OF OFFSITE DISPOSAL OF EXCAVATED MATERIAL.
2. SEE CONSTRUCTION SEQUENCING NOTE #8 REGARDING TOPSOIL DETAILS.
3. IN THE EVENT OF A SPILL OR IF CONTAMINATED MATERIAL IS ENCOUNTERED, CONTACT RANDY MALEK OF THE WDNR WASTE RECYCLING AND REDUCTION PROGRAM TO DETERMINE APPROPRIATE ACTION.
4. CONTRACTOR SHALL DISPOSE OF ALL MISCELLANEOUS DEBRIS EXCAVATED ON THE PROJECT.

GENERAL PROJECT NOTES

5. CONTRACTOR SHALL COMPLETE DAILY STREET CLEANING OF CONSTRUCTION DEBRIS TRACKED OFF CONSTRUCTION SITE DURING MOBILIZATION, CONSTRUCTION ACTIVITIES AND DEMOBILIZATION.

SUBSURFACE UTILITY INFORMATION

1. WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSE BY SUCH WORK.
2. THE SUBSURFACE UTILITY INFORMATION SHOWN WITHIN THIS PLAN SET IS SHOWN TO UTILITY QUALITY LEVEL IN ACCORDANCE WITH THE LEGEND PROVIDED BELOW. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE38-02, ENTITLES STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.

UTILITY QUALITY LEVELS

LEVEL D - INFORMATION COMES SOLELY FROM EXISTING UTILITY RECORDS

LEVEL C - SURVEYING ABOVE GROUND UTILITY FACILITIES, SUCH AS MANHOLES, VALVE BOXES, ETC; AND CORRELATING THIS INFORMATION WITH EXISTING UTILITY RECORDS.

LEVEL B - THE USE OF SURFACE GEOPHYSICAL TECHNIQUES TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF UNDERGROUND UTILITIES.

LEVEL A - THE USE OF NONDESTRUCTIVE DIGGING EQUIPMENT AT HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL AND OTHER CHARACTERISTICS.

THE UNDERGROUND UTILITIES IN THIS DRAWING SET FOR THIS PROJECT ARE AS FOLLOWS: LEVEL D

PREPARED FOR:

CITY OF SHEBOYGAN

City of Sheboygan spirit on the lake

PREPARED BY:

Foth

Solving our clients' toughest science and engineering challenges

OFFICE OF ORIGINATION:

Foth Infrastructure & Environment, LLC
7044 South Ballpark Drive, Suite 200
Franklin, WI 53132
Phone (414) 336-7900

NO	DATE	BY	REVISION DESCRIPTION

SOUTHSIDE INTERCEPTOR SYSTEM SHORELINE INFRASTRUCTURE PROTECTION AND ACCESS

GENERAL NOTES

SHEBOYGAN, WI

CAD FILE: C:\pw_workdir\pw_ie\mlh2\d0487350\21S042.00-G0.03.dwg

DESIGNED:	DRAWN:	CHECKED:
CWD	CWD	XXX
LETTING DATE: ##/##/####		PRINT DATE: 08/02/2022
PROJECT NO: 21S042.00		SHEET NO. **G0.03**

EROSION CONTROL

	EXISTING	DEMO/REMOVAL	PROPOSED
EROSION CONTROL - WATTLE OR DITCH CHECK (ROCK FILLED FILTER BAG / GENERIC WATTLE / EROSION BALE)			
EROSION CONTROL - SILT FENCE			
EROSION CONTROL - CONSTRUCTION ENTRANCE			
EROSION CONTROL - CONSTRUCTION ENTRANCE SYMBOL			
RESTORATION TYPE 1		RESTORATION TYPE 1 PATTERN: TRIANG SCALE: 12.5	
RESTORATION TYPE 2		RESTORATION TYPE 2 PATTERN: HEX SCALE: 12.5	
RESTORATION TYPE 3		RESTORATION TYPE 3 PATTERN: ANSI32 SCALE: 12.5	
RESTORATION TYPE 4		RESTORATION TYPE 4 PATTERN: ANSI38 SCALE: 12.5	
RESTORATION TYPE 5		RESTORATION TYPE 5 PATTERN: SQUARE SCALE: 12.5	
WETLAND DISTURBED AREA		WETLAND DISTURBED AREA PATTERN: ANSI31 SCALE: 12.5	
RIVER DISTURBED AREA		RIVER DISTURBED AREA PATTERN: ANSI31 SCALE: 12.5	

PROPERTY

	EXISTING	DEMO/REMOVAL	PROPOSED
PROPERTY - LOTLINE			
PROPERTY - PARCEL			
PROPERTY - PATTERN			
PROPERTY - PROPERTY			
PROPERTY - QUARTER SECTION			
PROPERTY - RIGHT OF WAY			
PROPERTY - RIGHT OF WAY MARKER	ROW		ROW
PROPERTY - SETBACK			
PROPERTY - SECTION LINE			

TOPOGRAPHY - GENERAL

	EXISTING	DEMO/REMOVAL	PROPOSED
GEOTECHNICAL - SOILS BOUNDARY			
GEOTECHNICAL - SOIL BORING	BORING #	BORING #	BORING #
TOPOGRAPHY - GENERAL			
TOPOGRAPHY - GRADING			
TOPOGRAPHY - GRADING - BOTTOM OF SLOPE			
TOPOGRAPHY - GRADING - CUT			
TOPOGRAPHY - GRADING - FEATURE			
TOPOGRAPHY - GRADING - FILL			
TOPOGRAPHY - GRADING - GRID			
TOPOGRAPHY - GRADING - TOP OF SLOPE			

ROADWAY

	EXISTING	DEMO/REMOVAL	PROPOSED
ROADWAY - ASPHALT EDGE			
ROADWAY - ASPHALT OUTLINE ROADWAY - ASPHALT PATTERN			AGGREGATE PAVEMENT PATTERN: AR-CONC and AR-SAND SCALE: 0.75 and 0.75

SANITARY SEWER

	EXISTING	DEMO/REMOVAL	PROPOSED
SANITARY SEWER - ABANDONED			
SANITARY SEWER - APPURTENANCE			
SANITARY SEWER - PIPE CENTERLINE (PLAN)			
SANITARY SEWER - PIPE LINING			
SANITARY SEWER - CLEANOUT			
SANITARY SEWER - FITTING			
SANITARY SEWER - FORCEMAIN	FM	FM	FM
SANITARY SEWER - LIFT STATION	LS	LS	LS
SANITARY SEWER - PATTERN			
SANITARY SEWER - PIPE WALL			
SANITARY SEWER - SERVICE LATERAL			
SANITARY SEWER - STRUCTURE	SA	SA	SA
SANITARY SEWER - STRUCTURE ABANDONED			
SANITARY SEWER - STRUCTURE LINING			
SANITARY SEWER - STRUCTURE PATTERN			
SANITARY SEWER - TUNNEL			
SANITARY SEWER - TUNNEL PATTERN			
SANITARY SEWER (PROFILE) LENGTH-DIA. MATERIAL @ GRADE			

STORM SEWER

	EXISTING	DEMO/REMOVAL	PROPOSED
STORM SEWER - ABANDONED			
STORM SEWER - PIPE CENTERLINE (PLAN)			
STORM SEWER - CULVERT			
STORM SEWER - INLET OR CATCH BASIN			
STORM SEWER - INTAKE			
STORM SEWER - LIFT STATION	LS	LS	LS
STORM SEWER - PATTERN			
STORM SEWER - PIPE			
STORM SEWER - SERVICE LATERAL			
STORM SEWER - STRUCTURE	ST	ST	ST
STORM SEWER - STRUCTURE ABANDON			
STORM SEWER - FLARED END SECTION			
STORM SEWER - STRUCTURE PATTERN			
STORM SEWER (PROFILE) LENGTH-DIA. MATERIAL @ GRADE			

CONTOURS AND TINN

	EXISTING	PROPOSED
CONTOUR - MAJOR		
CONTOUR - MAJOR - IDENTIFIER	695	695
CONTOUR - MINOR		
CONTOUR - MINOR - DEPRESSION		
CONTOUR - MINOR - IDENTIFIER		
TRIANGULATED IRREGULAR NETWORK		
TRIANGULATED IRREGULAR NETWORK - BOUNDARY		
TRIANGULATED IRREGULAR NETWORK - BREAKLINE		
TRIANGULATED IRREGULAR NETWORK - BOTTOM OF SLOPE		
TRIANGULATED IRREGULAR NETWORK - DIRECTIONS		
TRIANGULATED IRREGULAR NETWORK - ELEVATIONS		
TRIANGULATED IRREGULAR NETWORK - GRID		
TRIANGULATED IRREGULAR NETWORK - POINTS		
TRIANGULATED IRREGULAR NETWORK - SLOPES		
TRIANGULATED IRREGULAR NETWORK - TRIANGLE		
TRIANGULATED IRREGULAR NETWORK - TOP OF SLOPE		
TRIANGULATED IRREGULAR NETWORK - USER OBJECT		
TRIANGULATED IRREGULAR NETWORK - WATERSHED		
VOLUME SURFACE - CUT		
VOLUME SURFACE - FILL		

LIST OF STANDARD ABBREVIATIONS

△	CENTRAL ANGLE OR DELTA
ADT	AVERAGE DAILY TRAFFIC
AGGR	AGGREGATE
AH	AHEAD
ASPH	ASPHALT
B/B	BACK TO BACK
BAD	BASE AGGREGATE DENSE
BARR	BARRICADE
BOC	BACK OF CURB
BK	BACK
BLDG	BUILDING
BM	BENCH MARK
BSMT	BASEMENT
C	CUT
C&G	CURB AND GUTTER
C/C	CENTER TO CENTER
CABC	CRUSHED AGGREGATE BASE COURSE
CB	CATCH BASIN
CE	CONSTRUCTION ENTRANCE
CIP	CAST IRON PIPE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CNTY	COUNTY
CO	CLEAN OUT
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONSTR JT	CONSTRUCTION JOINT
CP	CONTROL POINT
CTH	COUNTY TRUNK HIGHWAY
CTRL JT	CONTROL JOINT
CTV	CABLE TV
CU YD	CUBIC YARD
CS	CURB STOP
D	DEGREE OF CURVE
DD	DIRECTIONAL DRILLED
DEG	DEGREE
DIA	DIAMETER
DI	DUCTILE IRON PIPE
DISCH	DISCHARGE
DW	DRIVEWAY
E	EAST
EA	EACH
EB	EAST BOUND
EBS	EXCAVATION BELOW SUBGRADE
ECS	EXTERNAL CHIMNEY SEAL
EL	ELEVATION
ELEC	ELECTRIC (E WHEN USED IN LINE STYLE)
EMB	EMBANKMENT
ENTR	ENTRANCE
EP	EDGE OF PAVEMENT
ET	ELECTRIC TRANSFORMER
EW	ENDWALL
EXC	EXCAVATION
EXIST	EXISTING
F	FILL
F/F	FACE TO FACE
FDN	FOUNDATION
FE	FIELD ENTRANCE
FERT	FERTILIZER
FH	FIRE HYDRANT
FIN GR	FINISHED GRADE
FL	FLOW LINE
FM	FORCE MAIN
FO	FIBER OPTIC
FT	FOOT
FTG	FOOTING
G	GAS
GV	GAS VALVE
GW	GUY WIRE
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
HR	HANDICAP RAMP
HSE	HOUSE
HT	HEIGHT
I	INTERSECTION ANGLE
ICS	INTERNAL CHIMNEY SEAL
ID	INSIDE DIAMETER
IN	INCH
INL	INLET
INTERS	INTERSECTION
INV	INVERT
IP	IRON PIPE OR PIN
JCT	JUNCTION
L	LENGTH (OF CURVE)
LC	LONG CHORD OF CURVE
LP	LIGHT POLE
LS	LIFT STATION OR LUMP SUM
LT	LEFT
MAINT	MAINTENANCE
MATL	MATERIAL
MB	MAILBOX
MG	METER-GAS
MH	MANHOLE
MP	MARKER POST
MW	METER-WATER OR MONITORING WELL
N	NORTH
NB	NORTHBOUND
NC	NORMAL CROWN
NE	NORTHEAST
NO	NUMBER
NTS	NOT TO SCALE
NW	NORTHWEST
O	OIL
O&C	OIL & CHIP
OBLIT	OBLITERATE
OD	OUTSIDE DIAMETER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PED	PEDESTAL
PLE	PERMANENT LIMITED EASEMENT
PVMT	PAVEMENT
PCC	PORTLAND CEMENT CONCRETE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PJF	PRE-FORMED JOINT FILLER
PL	PROPERTY LINE
POC	POINT OF CURVE
POT	POINT ON TANGENT
PP	POWER POLE
PRC URE	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSI	POUND PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVC OR	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVRC	POINT OF VERTICAL REVERSE CURVE
PVT	POINT OF VERTICAL TANGENCY
R	RANGE OR RADIUS
RCP	REINFORCED CONCRETE PIPE
REBAR	REINFORCEMENT BAR
REL	RELOCATE
REM	REMAINING
REQD	REQUIRED
RL	REFERENCE LINE
ROW	RIGHT-OF-WAY
RP	REFERENCE POINT
RR	RAILROAD
RT	RIGHT
RW	RETAINING WALL
S	SOUTH
SALV	SALVAGE
SAN	SANITARY
SC	STORM CONNECTION
SB	SOUTHBOUND
SDWK	SIDEWALK
SE	SOUTHEAST
SF	SILT FENCE
SIG	SIGNAL
SL	SANITARY LATERAL
SQ FT	SQUARE FEET
SHLDR	SHOULDER
SQ YD	SQUARE YARD
SSD	STOPPING SIGHT DISTANCE
STA	STATION
STD	STANDARD
STH	STATE TRUNK HIGHWAY
STM	STORM OR STORM SEWER
STP	SEWAGE TREATMENT PLANT
STRUCT	STRUCTURE OR STRUCTURAL
SW	SOUTHWEST
TAN	TANGENT
T	TOWN (T WHEN USED FOR TELEPHONE LINE)
TEL	TELEPHONE
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TOC	TOP OF CURB
TRANS	TRANSITION
TYP	TYPICAL
UG	UNDERGROUND
USH	US HIGHWAY
VC	VERTICAL CURVE
VERT	VERTICAL
VOL	VOLUME
W	WEST
WB	WESTBOUND
WM	WATER MAIN
WS	WATER SERVICE
WTP	WATER TREATMENT PLANT
WV	WATER VALVE
WWTP	WASTE WATER TREATMENT PLANT
YD	YARD

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CITY OF SHEBOYGAN

City of Sheboygan spirit on the lake

PREPARED BY:

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SOUTHSIDE INTERCEPTOR SYSTEM
SHORELINE INFRASTRUCTURE
PROTECTION AND ACCESS

SYMBOLS AND ABBREVIATIONS

SHEBOYGAN, WI

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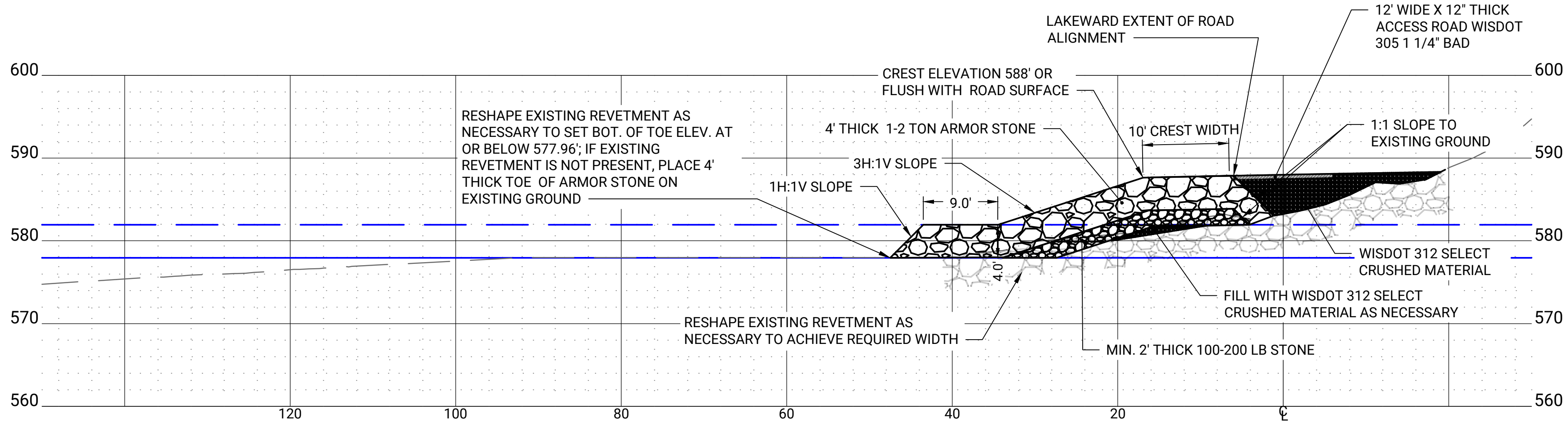
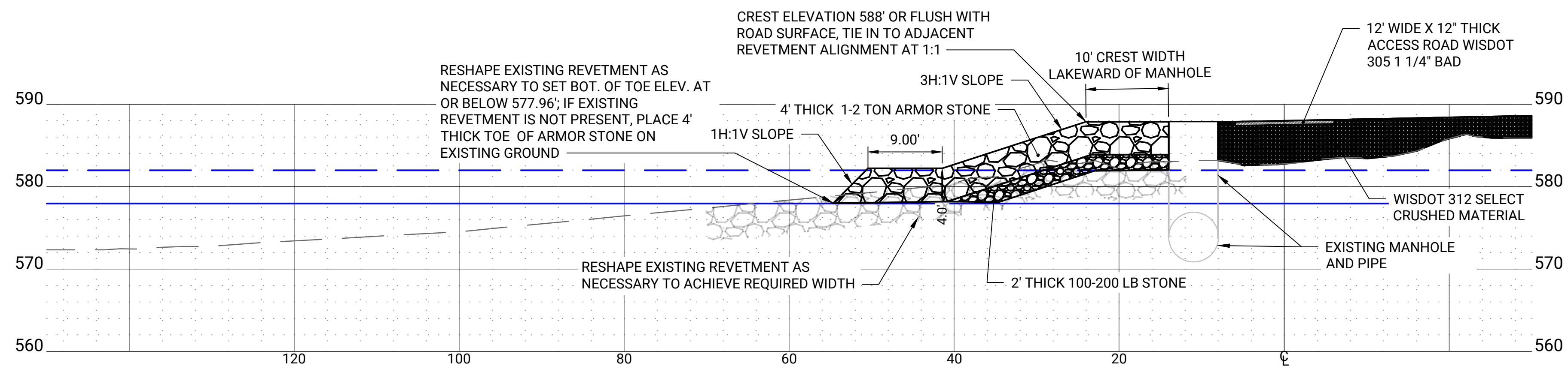


TYPICAL REVETMENT DETAIL



TYPICAL REVETMENT DETAIL WITH EXISTING MANHOLE

LEGEND

- LIDAR SURVEY
- BATHYMETRIC SURVEY
- LWD (577.96 NAVD99)
- OHW (581.97 NAVD88)

NOTES:

1. SEE CROSS SECTION SHEETS FOR ELEVATIONS.

REVETMENT GENERAL NOTES:

1. GENERAL: ALL MATERIALS TO BE FURNISHED SHALL MEET ALL REQUIREMENTS IN THIS SECTION OF THE SPECIFICATIONS. THE OWNER OR THE ENGINEER, AT ANY TIME DURING THE CONTRACT, MAY REJECT MATERIALS AT THE SOURCE OR AT THE JOB SITE FOR FAILURE TO MEET THE SPECIFIED REQUIREMENTS. MATERIALS THAT HAVE BEEN DELIVERED TO THE PROJECT SITE AND ARE REJECTED, WHETHER IN STOCKPILE OR IN PLACE IN THE STRUCTURE, SHALL BE REMOVED FROM THE PROJECT SITE AT THE CONTRACTOR'S EXPENSE.

2. PRIMARY/SECONDARY STONE QUALITY: STONE USED FOR REVETMENT SHALL BE HARD, DURABLE, AND ANGULAR IN SHAPE. STONE SHALL BE HIGHLY RESISTANT TO WEATHERING AND DISINTEGRATION UNDER FREEZING AND THAWING, AND WETTING AND DRYING CONDITIONS, AND SHALL BE OF A QUALITY TO INSURE PERMANENCE OF THE STRUCTURE IN THE CLIMATE IN WHICH IT IS TO BE USED. THE STONE SHALL BE SOUND, FREE FROM DETRIMENTAL CRACKS, SEAMS, AND OTHER DEFECTS WHICH TEND TO INCREASE DETERIORATION FROM NATURAL CAUSES OR CAUSE BREAKAGE IN HANDLING AND/OR PLACING. NEITHER THE BREADTH NOR THICKNESS OF A SINGLE STONE SHOULD BE LESS THAN ONE-THIRD OF ITS LENGTH. ROUNDED STONE OR BOULDERS WILL NOT BE ACCEPTED UNLESS AUTHORIZED BY THE ENGINEER. STONE SHALL BE FREE FROM OVERBURDEN, SPOIL, SHALE, AND ORGANIC MATERIAL.

3. SELECT CRUSHED MATERIAL: SELECT CRUSHED MATERIAL SHALL CONFORM TO REQUIREMENTS SPECIFIED IN WISDOT 2021 STANDARD SPECIFICATIONS 312 SELECT CRUSHED MATERIAL.

4. STONE GRADATION: STONE SHALL BE WELL GRADED WITHIN THE SIZE SPECIFIED. EACH CLASS OF STONE SHALL HAVE THE GRADATION EVENLY DISTRIBUTED OVER THE WEIGHT SPECTRUM, NO DUST OR FINES. MATERIAL SHALL BE CLEAN STONE APPROVED BY THE ENGINEER AND CONFORMING TO THE FOLLOWING GRADATION:
   a. REVETMENT ARMOR STONE: 1 - 2 TON
   b. REVETMENT INTERMEDIATE STONE: 100-200 LB
   c. SELECT CRUSHED STONE: CONFORM TO GRADATION SPECIFIED IN WISDOT 2021 STANDARD SPECIFICATIONS 312 SELECT CRUSHED MATERIAL

5. ENGINEER AND OWNER WILL IDENTIFY STONE SOURCES AND APPROVE SOURCES FOR USE ON THE PROJECT.

6. STONE SHALL BE PLACED IN A MANNER WHICH WILL PRODUCE A REASONABLY WELL GRADED MASS OF STONE WITH THE MINIMUM PRACTICABLE PERCENTAGE OF VOIDS. THE ENTIRE MASS OF STONE SHALL BE PLACED SO AS TO BE IN CONFORMANCE WITH THE LINES, GRADES, AND THICKNESSES SHOWN ON THE PLANS.

7. THE LARGER STONES SHALL BE WELL DISTRIBUTED AND THE ENTIRE MASS OF STONE SHALL CONFORM TO THE GRADATION SPECIFIED BY THE ENGINEER. ALL MATERIAL SHALL BE SO PLACED AND DISTRIBUTED THAT THERE WILL BE NO LARGE ACCUMULATIONS OF EITHER THE LARGER OR SMALLER SIZES OF STONES.

8. REUSE OF STONE FROM THE EXISTING REVETMENT FOR USE IN THE PROPOSED REVETMENT DESIGN MUST BE APPROVED BY THE ENGINEER FOR THE EXTENT IN WHICH THE EXISTING REVETMENT IS TO BE UTILIZED.

9. EXISTING REVETMENT MAY BE RESHAPED AND INCORPORATED INTO PROPOSED REVETMENT IF THE STONE CONFORMS TO GRADATION AND QUALITY SPECIFIED FOR THE LAYER IN WHICH THE EXISTING STONE IS TO BE INCORPORATED, AND APPROVED BY THE ENGINEER.

10. REVETMENT EXTENT SHALL VARY AS NECESSARY TO TIE IN TO EXISTING GROUND.

11. REVETMENT SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
    a. 10' CREST WIDTH
    b. 4' THICK 1-2 TON ARMOR STONE
    c. 2' THICK 100-200 LB STONE
    d. 9' TOE WIDTH
    e. 3H:1V REVETMENT SLOPE
    f. MAXIMUM ELEVATION OF LAKEWARD EXTENT OF TOE IS TO BE 577.96' NAVD88 UNLESS EXISTING LAKEBED ELEVATION IS GREATER THAN 577.96'.

12. THE CONTRACTOR SHALL MAINTAIN THE REVETMENT PROTECTION UNTIL ACCEPTED, AND ANY MATERIAL DISPLACED BY ANY CAUSE SHALL BE REPLACED TO THE LINES AND GRADES SHOW ON THE PLANS AT NO ADDITIONAL COST TO THE OWNER.

13. STONES FOR REVETMENT SHALL BE PLACED ON A PREPARED SLOPE IN A PATTERN THAT CONTAINS MINIMUM VOIDS. REVETMENT TO BE SET TO PROPOSED LIMITS, NO USE OF CHINK STONES PERMITTED. THE TOP SURFACE OF THE REVETMENT SHALL CONFORM TO A TRUE AND EVEN PLANE WITH A TOLERANCE OF PLUS OR MINUS 4 INCHES. JOINT SHALL BE BROKEN AS MUCH AS PRACTICABLE AND JOINT OPENINGS TO THE UNDERLYING MATERIAL SHALL BE AVOIDED BY CAREFUL ARRANGEMENT OF THE STONE SIZES AND THE CHOCKING OF THE OPENINGS WITH SMALLER STONES. LARGER STONES SHALL BE PLACED NEAR THE BASE OF THE SLOPE. STONES SHALL BE LAID TO REST ON THE BANK, AND NOT ALL IN ADJACENT STONES. THIS SHALL BE ACCOMPLISHED BY LAYING STONES FROM THE TOP OF THE BANK, DOWNWARD TO ENSURE INDEPENDENCE PORT FOR EACH SUCH STONE.

14. NO REVETMENT, FILL OR CONSTRUCTION ACTIVITY SHALL OCCUR BEYOND THE LIMITS SHOWN ON PLANS OR OTHERWISE IMPACT THE WATERS.

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SOUTHSIDE INTERCEPTOR SYSTEM SHORELINE INFRASTRUCTURE PROTECTION AND ACCESS
REVETMENT DETAILS AND NOTES
SHEBOYGAN, WI

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LETTING DATE: ##/##/####		PRINT DATE: 08/02/2022
PROJECT NO: 21S042.00		SHEET NO. G0.05

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SOUTHSIDE INTERCEPTOR SYSTEM SHORELINE INFRASTRUCTURE PROTECTION AND ACCESS

LAKEVIEW PARK MATERIAL STAGING AREA

SHEBOYGAN, WI

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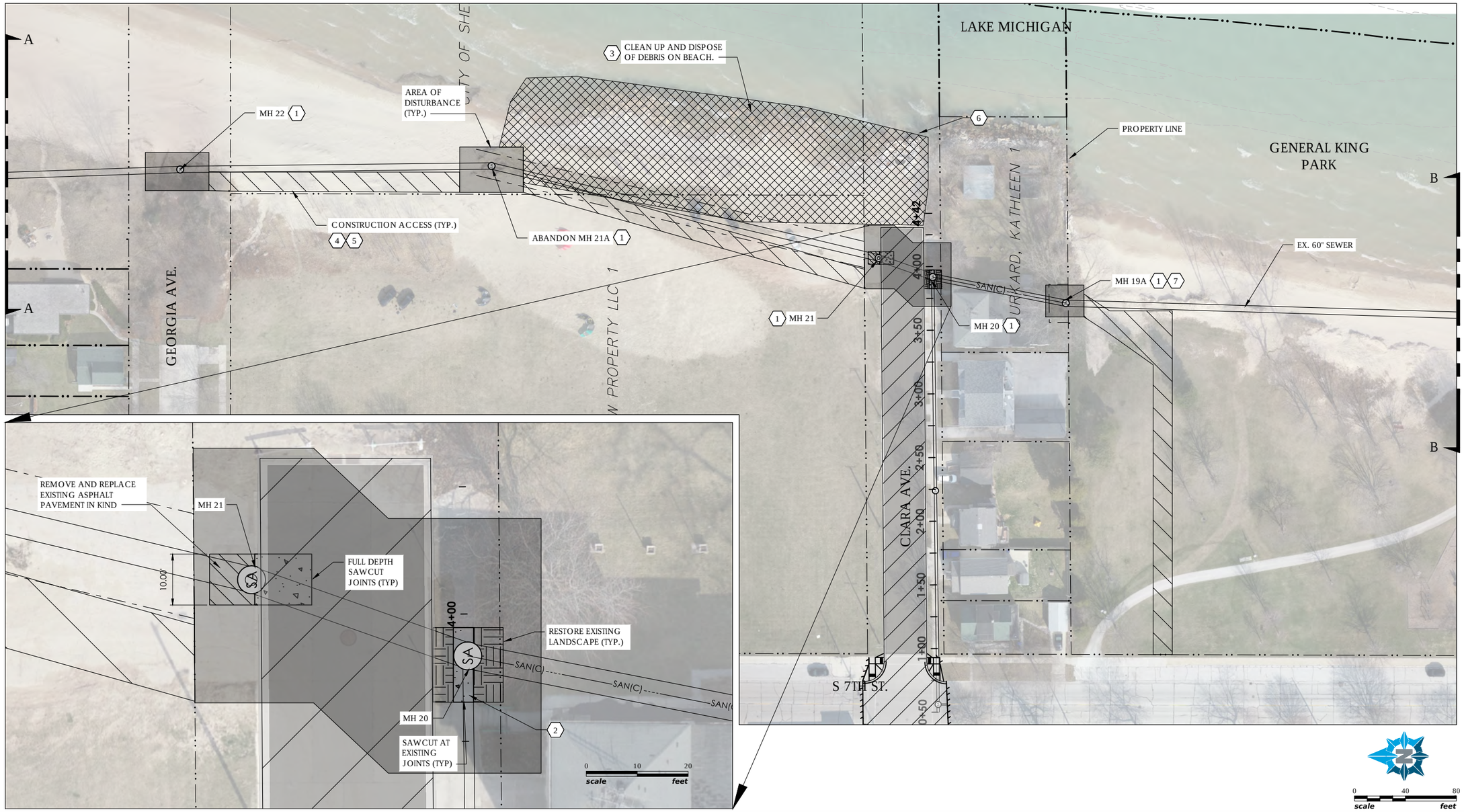
KEYNOTES:

1. SEE MH SCHEDULE ON SHEET C1.21 FOR DETAILS
2. REMOVE AND REPLACE SIDEWALK - 4" CONC. OVER 6" MIN. BASEROCK. #4 SIDEWALK TIE RODS, 2 EACH END
3. DEBRIS SHALL BE REMOVED UP TO 3' DEEP, CLEAN SAND TO BE LEFT. NO DEBRIS PIECES LARGER THAN APPROX. 1/2 INCH SHALL REMAIN
4. KEEP CONSTRUCTION TRAFFIC WITHIN THE LIMITS OF THE CONSTRUCTION ACCESS AND RESTORE PER SECTION 02 93 00
5. PROTECT SURROUNDING AREA
6. REPLACE EXISTING STORM SEWER AND OUTFALL AND RECONSTRUCT ROAD. SEE SHEET C2.01.
7. ROLL BACK CHAIN LINK FENCE FOR ACCESS TO MH. RESTORE FENCE TO EXISTING OR BETTER CONDITION POST CONSTRUCTION.



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SOUTHSIDE INTERCEPTOR SYSTEM
SHORELINE INFRASTRUCTURE
PROTECTION AND ACCESS

SITE PLAN

SHEBOYGAN, WI

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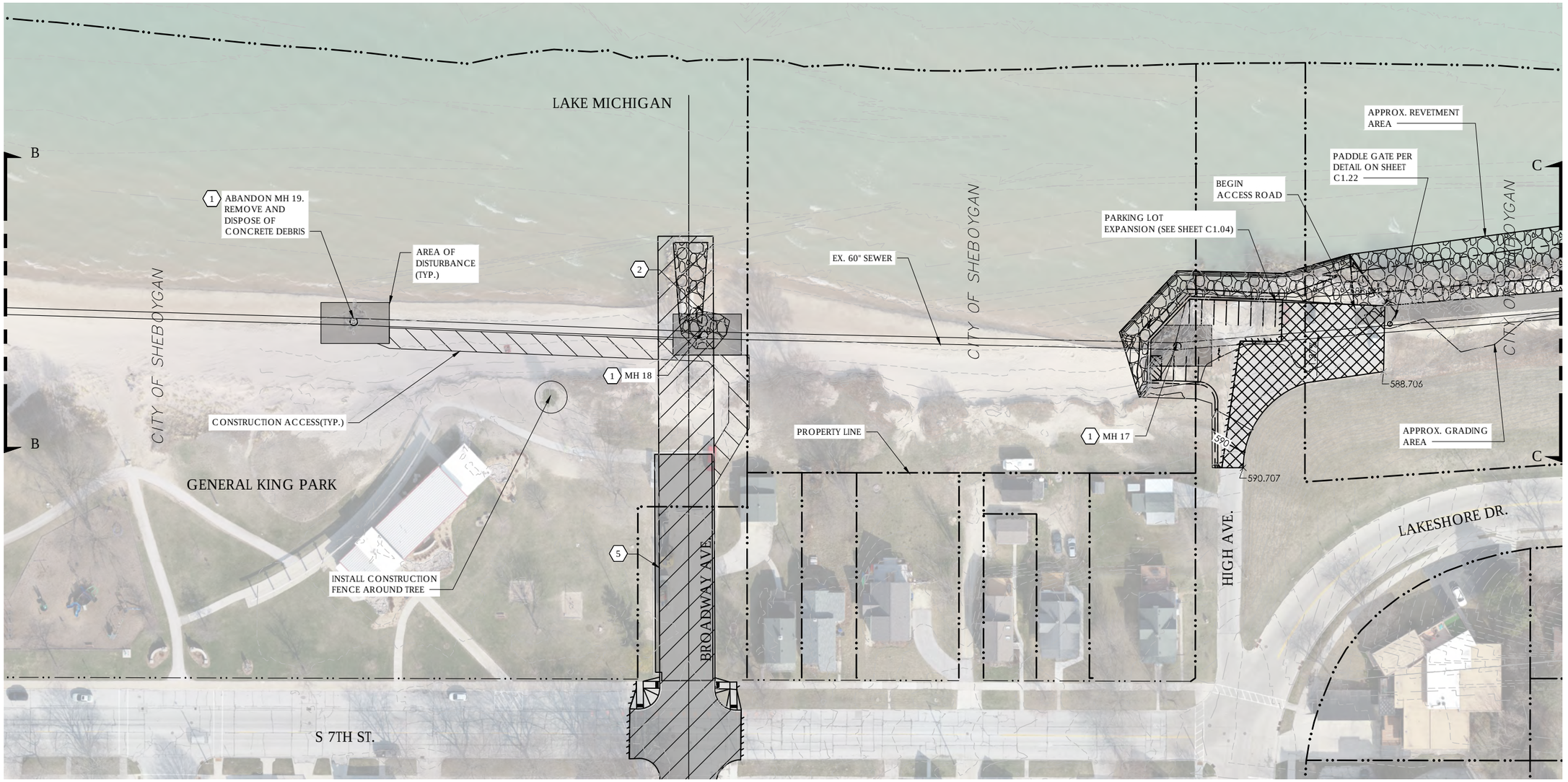
PROJECT NO: 21S042.00		SHEET NO. C1.02

KEYNOTES:

1. SEE MH SCHEDULE ON SHEET C1.21 FOR DETAILS
2. ARMORMENT AROUND MH STRUCTURES (TYP.) SEE DETAIL G0.05
3. KEEP CONSTRUCTION TRAFFIC WITHIN THE LIMITS OF THE CONSTRUCTION ACCESS AND RESTORE PER SECTION 02 93 00
4. PROTECT SURROUNDING AREA
5. REPLACE EXISTING STORM SEWER AND OUTFALL AND RECONST ROAD. SEE SHEET C2.02

GENERAL NOTES:

1. NO WORK IS ALLOWED IN GENERAL KING PARK/BEACH ON WEEKENDS.
2. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE REMOVED FROM BEACH AND AREA CLEANED PRIOR TO WEEKENDS.



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SITE PLAN

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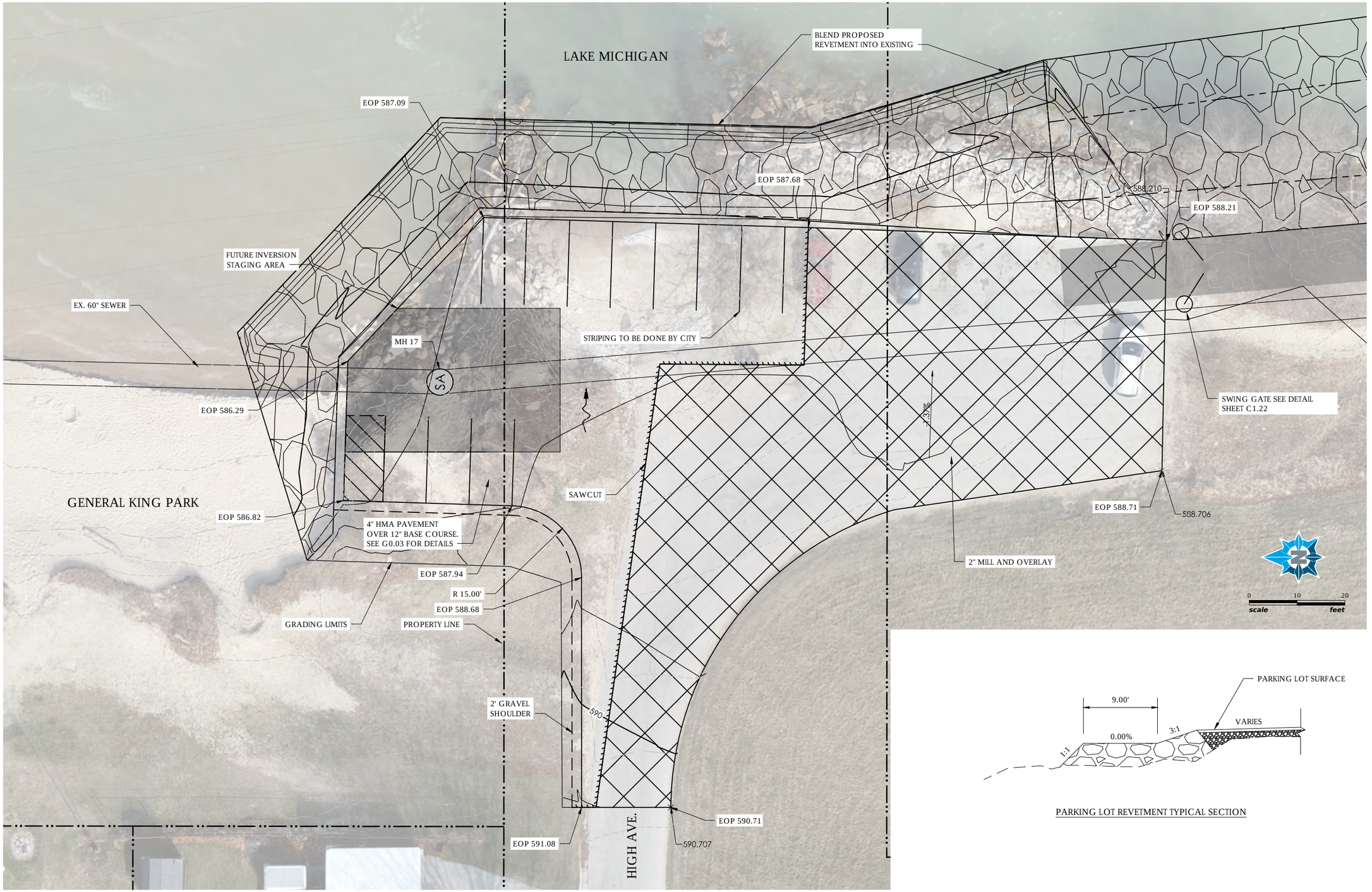

PARKING LOT REVETMENT TYPICAL SECTION

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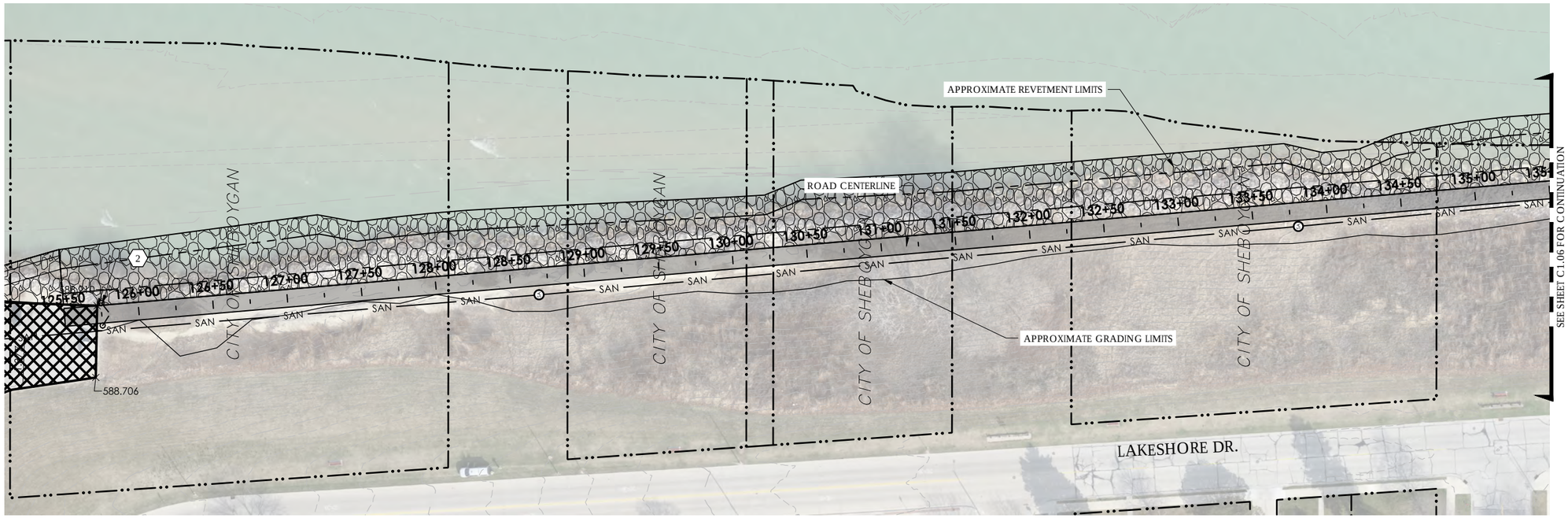
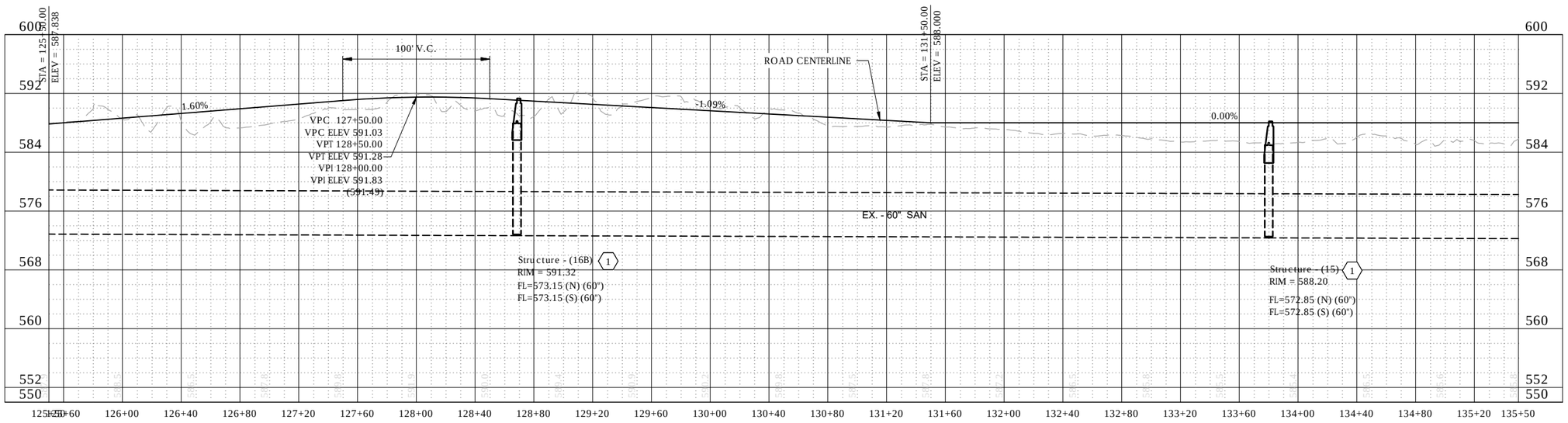
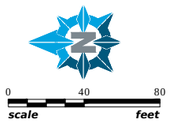
KEYNOTES:

1. SEE MH SCHEDULE ON SHEET C1.20 FOR DETAILS
2. PADDLE GATE PER DETAILS, SEE SHEET C1.18







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SOUTHSIDE INTERCEPTOR SYSTEM
SHORELINE INFRASTRUCTURE PROTECTION AND ACCESS

SHORELINE PLAN & PROFILE

SHEBOYGAN, WI

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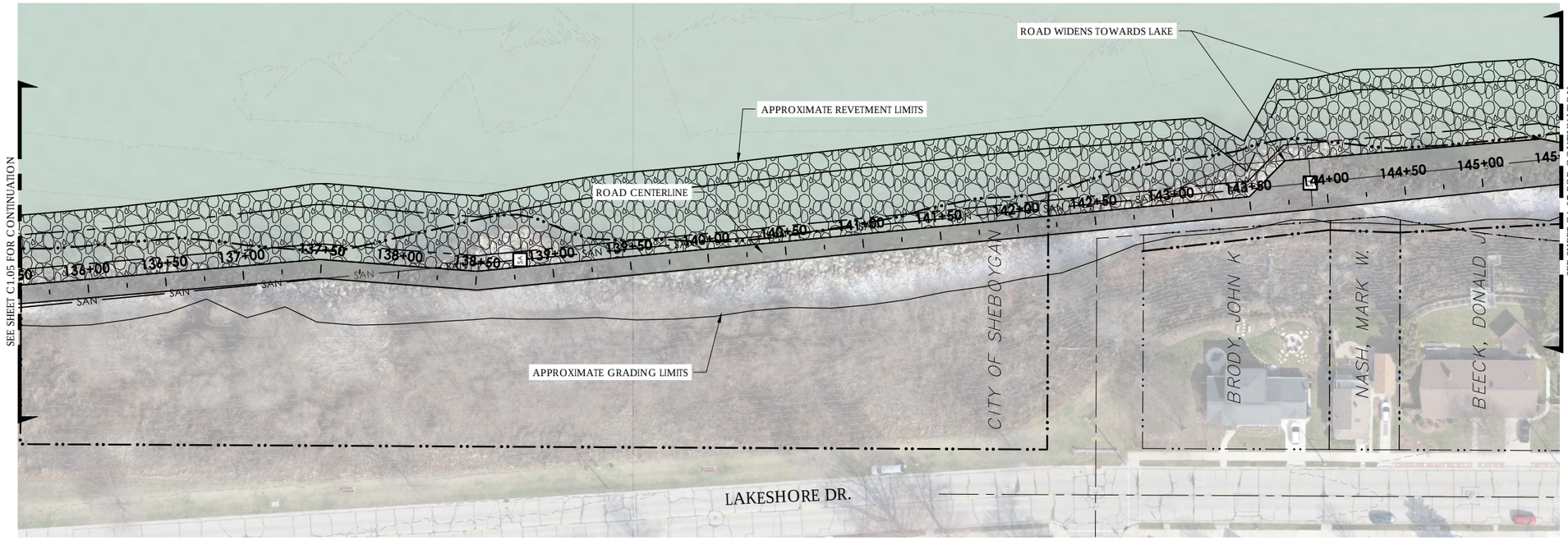
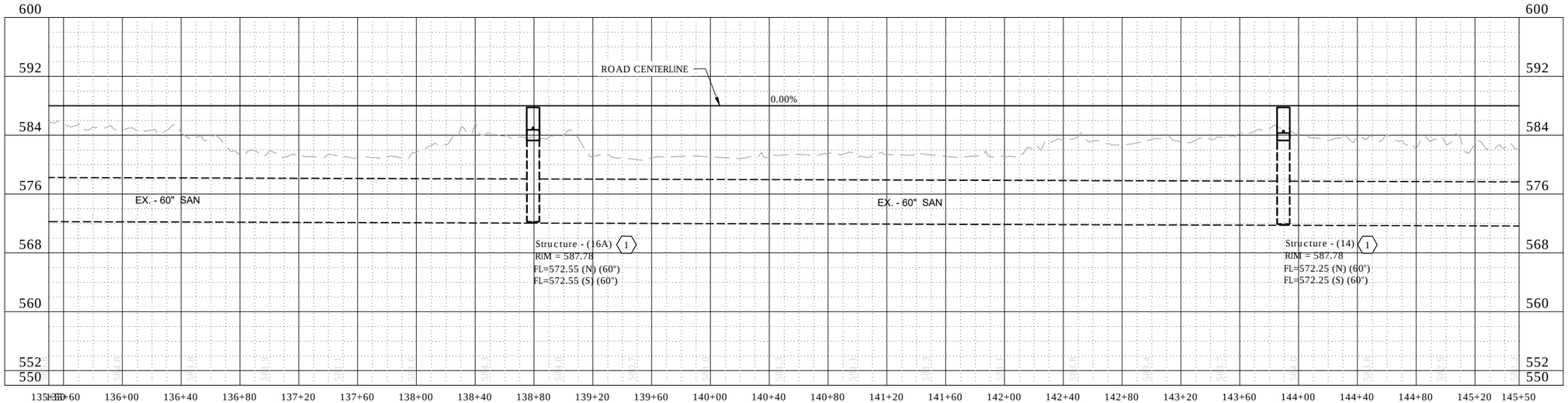
KEYNOTES:

1. SEE MH SCHEDULE ON SHEET C1.20 FOR DETAILS





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SHORELINE PLAN & PROFILE

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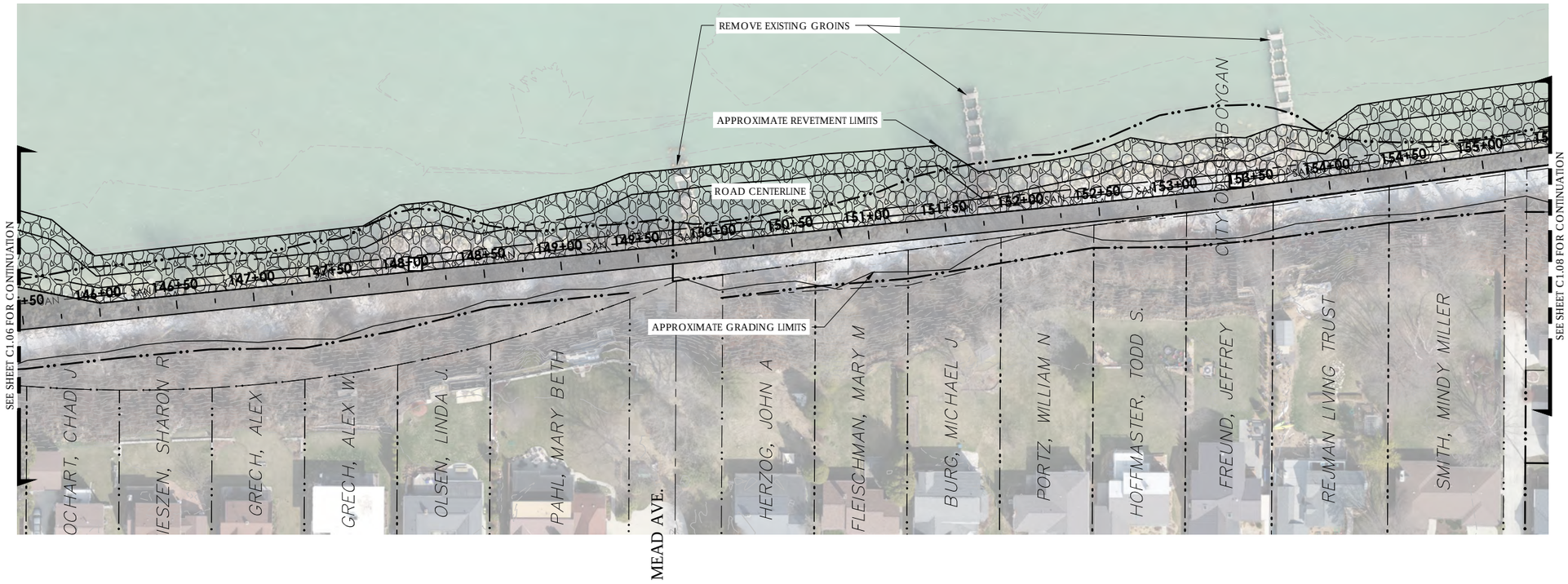
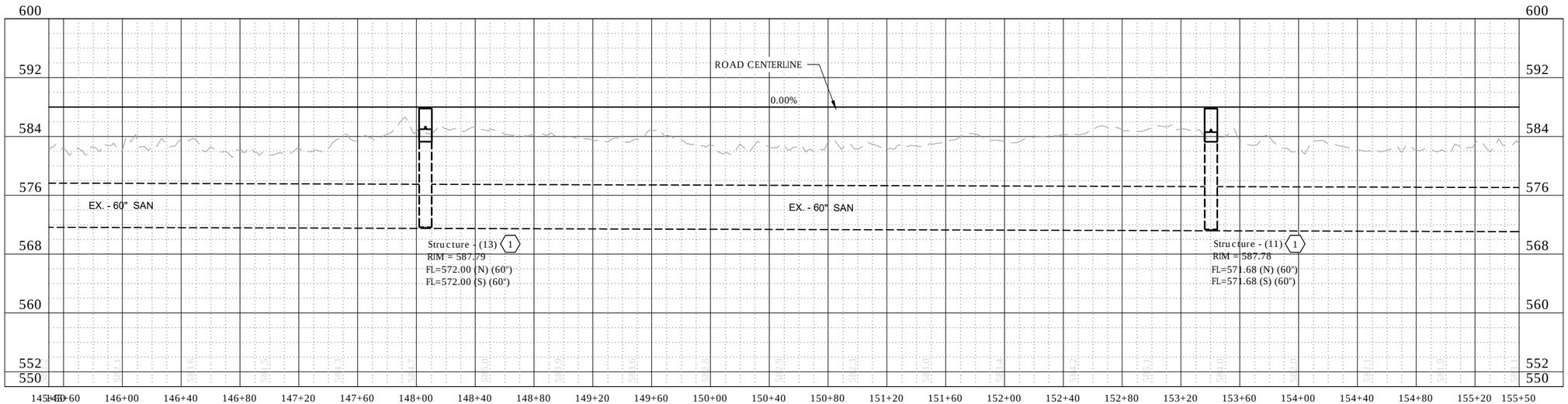
KEYNOTES:

1. SEE MH SCHEDULE ON SHEET C1.20 FOR DETAILS





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SHORELINE INFRASTRUCTURE
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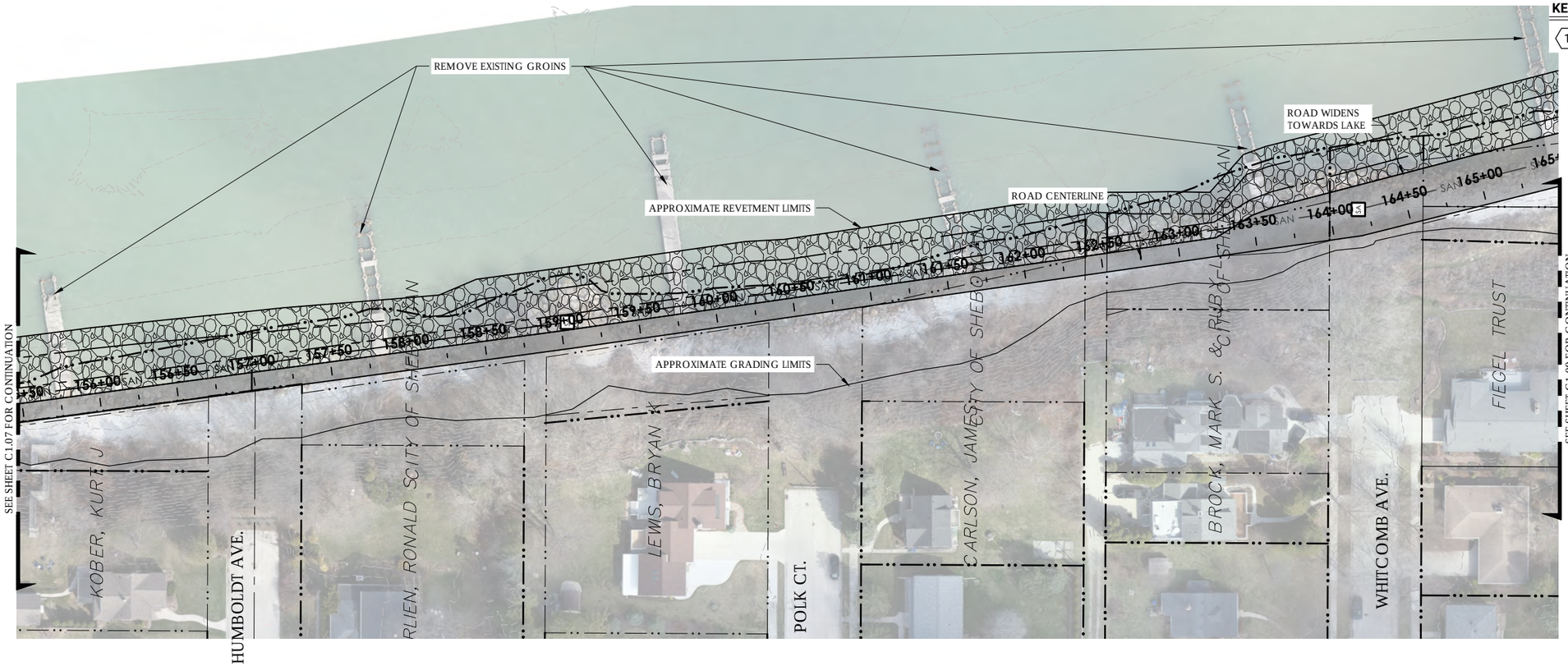
SHORELINE PLAN & PROFILE

SHEBOYGAN, WI

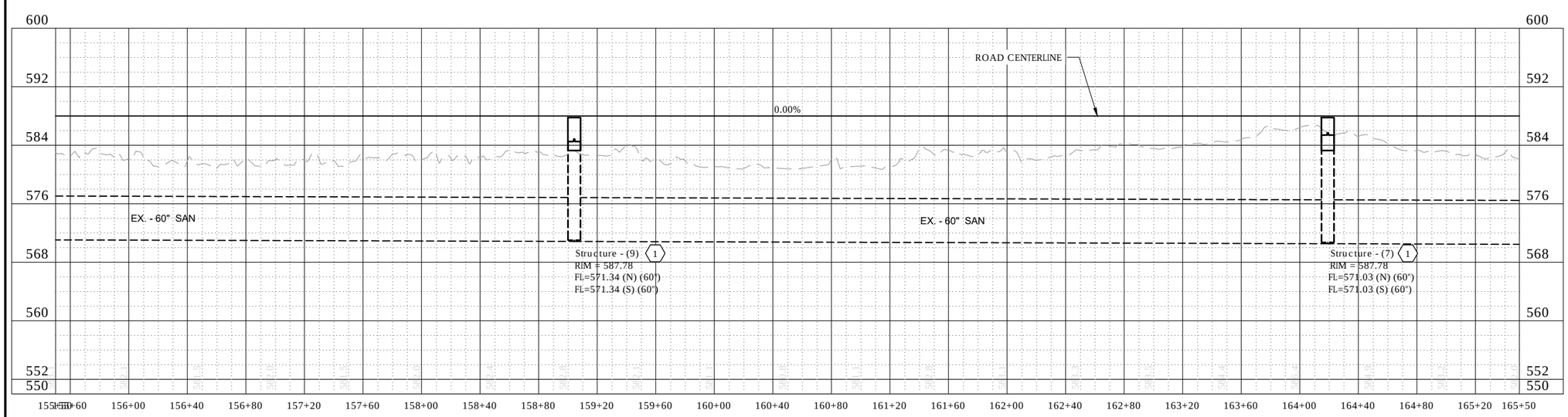
CAD FILE: C:\pw_workdir\pw_ie\mlh2\d0487350\21S042.00-C1.05.dwg

DESIGNED:	DRAWN:	CHECKED:
CWD	CWD	XXX
LETTING DATE: ##/##/####		PRINT DATE: 08/02/2022
PROJECT NO: 21S042.00		SHEET NO. C1.07



KEYNOTES:

1. SEE MH SCHEDULE ON SHEET C1.20 FOR DETAILS



0 40 80
scale feet

PREPARED FOR:
CITY OF SHEBOYGAN

PREPARED BY:
Foth
Solving our clients' toughest science and engineering challenges

OFFICE OF ORIGINATION:
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Phone (414) 336-7900

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REVISION DESCRIPTION

NO	DATE	BY

SOUTHSIDE INTERCEPTOR SYSTEM
SHORELINE INFRASTRUCTURE
PROTECTION AND ACCESS

SHORELINE PLAN & PROFILE

SHEBOYGAN, WI

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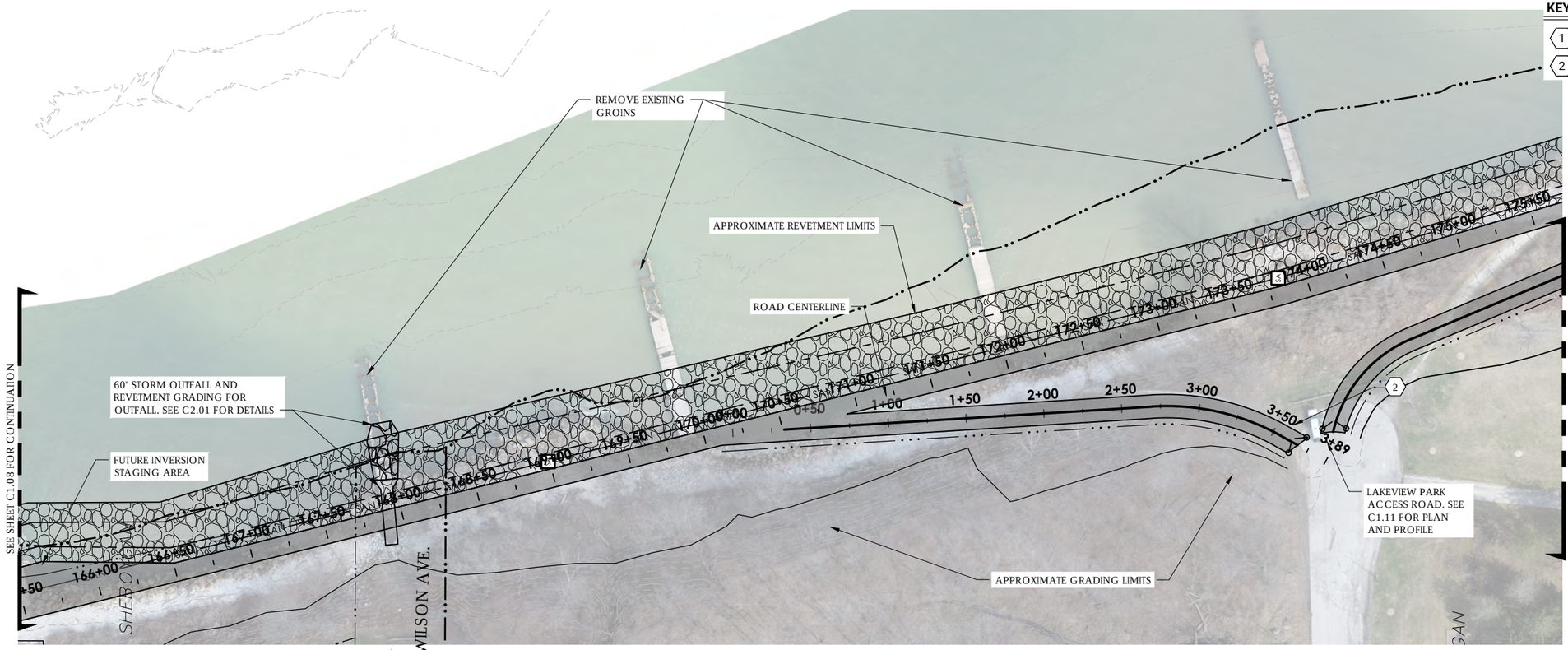
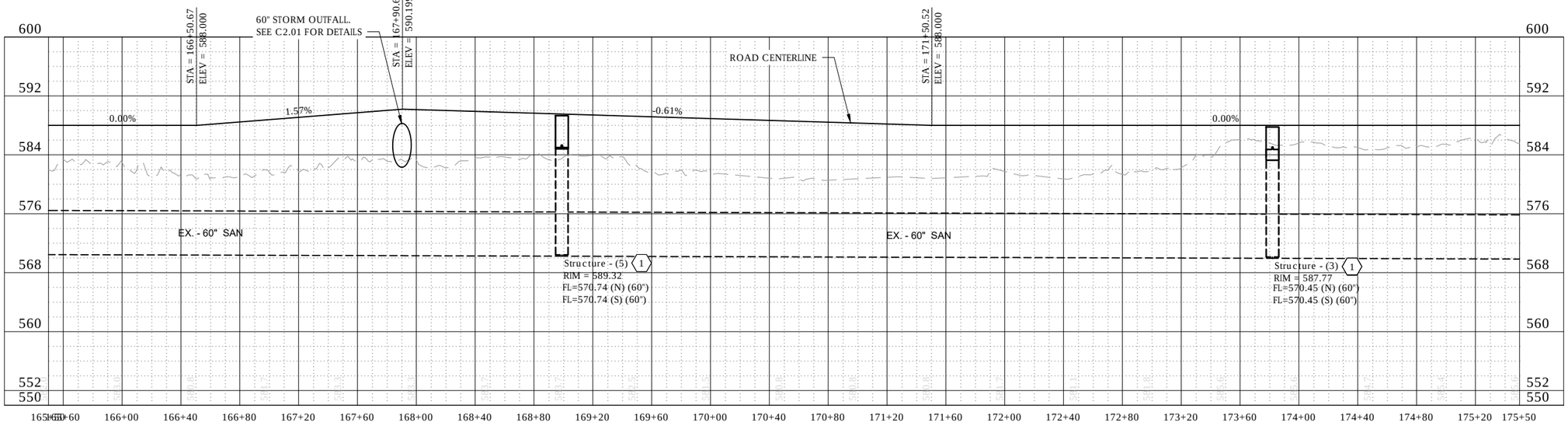
PROJECT NO: 21S042.00		SHEET NO. C1.08





KEYNOTES:

1. SEE MH SCHEDULE ON SHEET C1.20 FOR DETAILS
2. PADDLE GATE PER DETAILS, SEE SHEET C1.18

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SOUTHSIDE INTERCEPTOR SYSTEM
SHORELINE INFRASTRUCTURE
PROTECTION AND ACCESS

SHORELINE PLAN & PROFILE

SHEBOYGAN, WI

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PROJECT NO: 21S042.00		SHEET NO. C1.09

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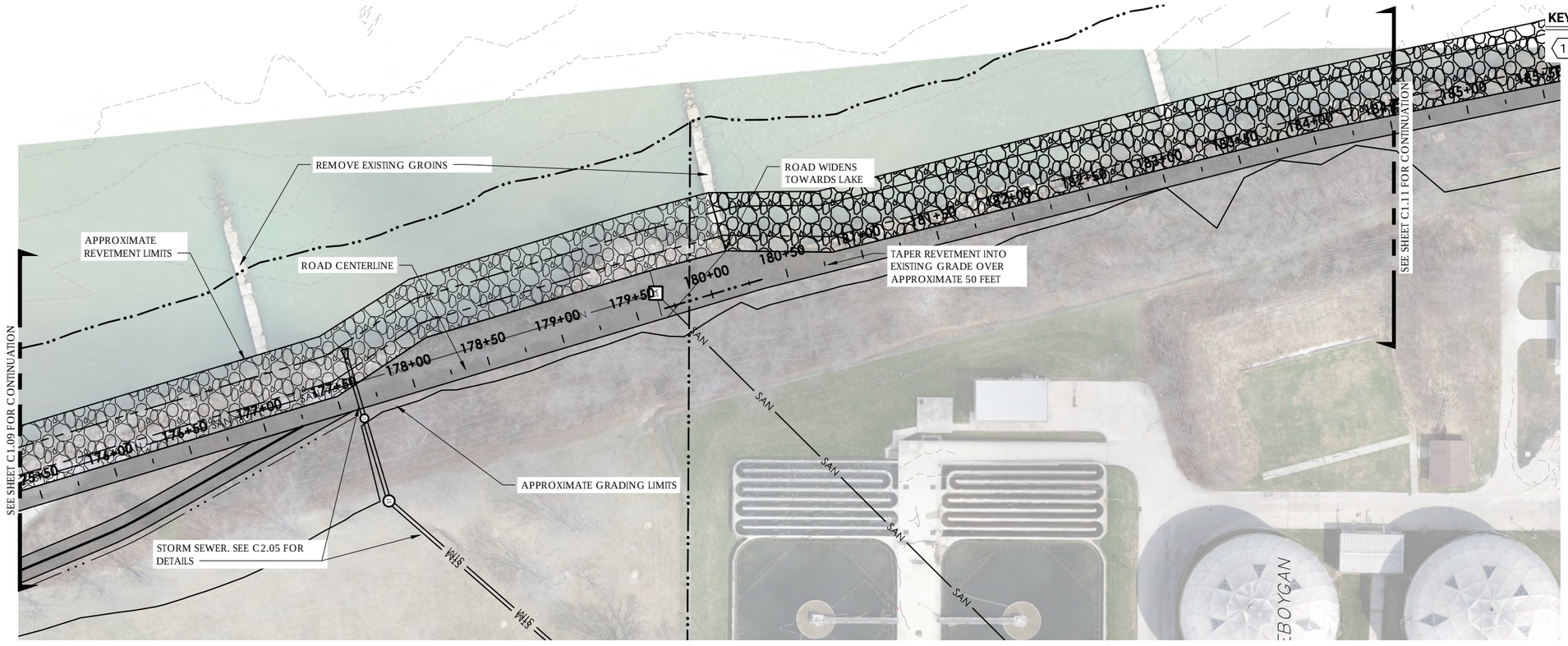

KEYNOTES:

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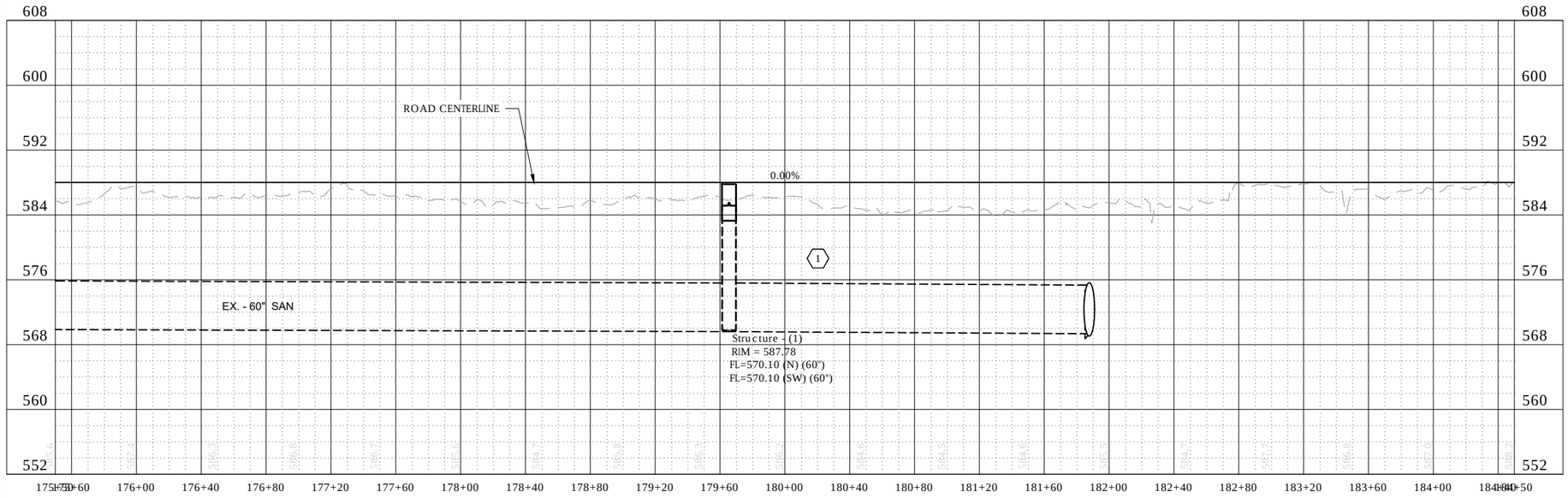

0 40 80
scale feet

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SOUTHSIDE INTERCEPTOR SYSTEM
SHORELINE INFRASTRUCTURE PROTECTION AND ACCESS

SHORELINE PLAN & PROFILE

SHEBOYGAN, WI

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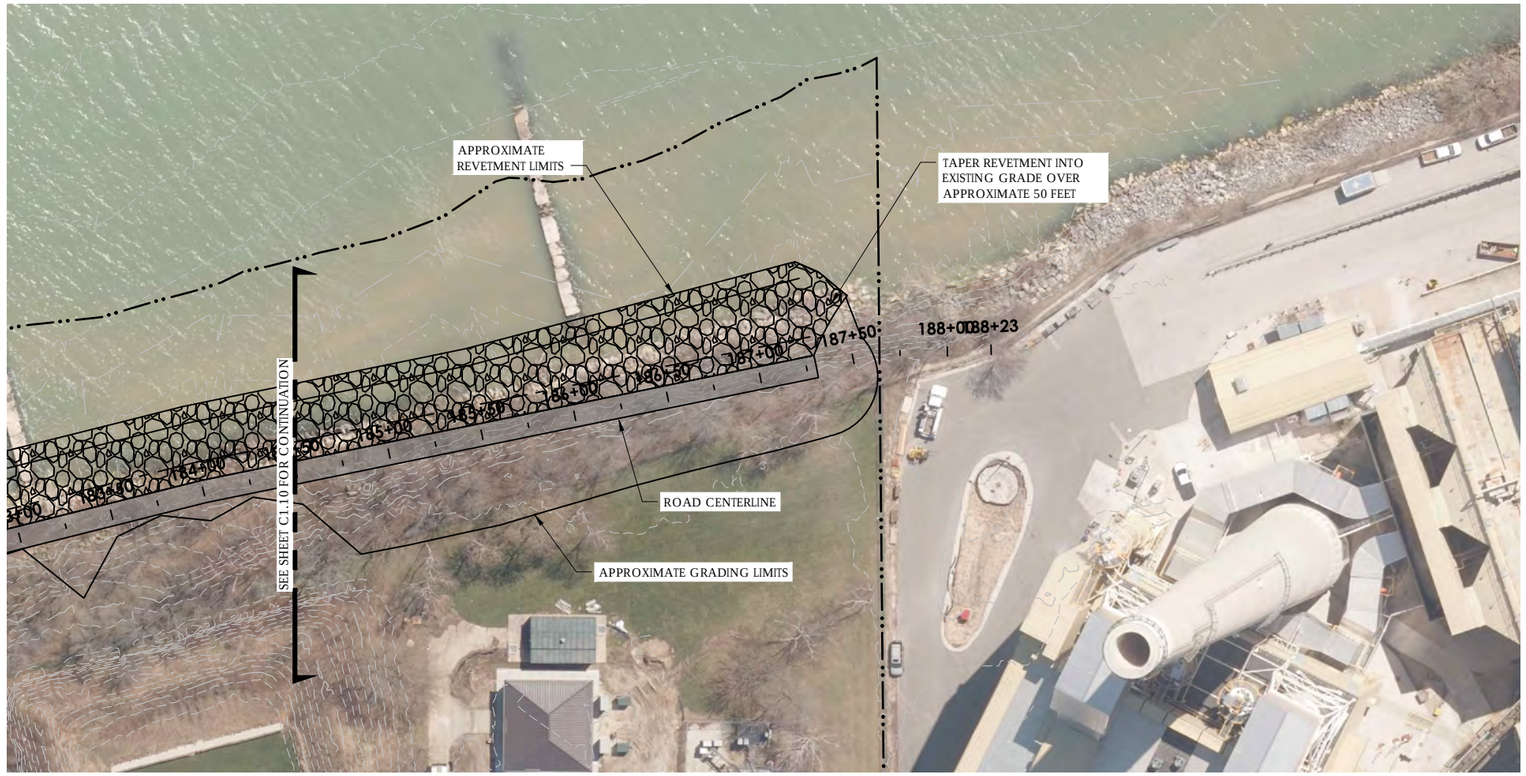
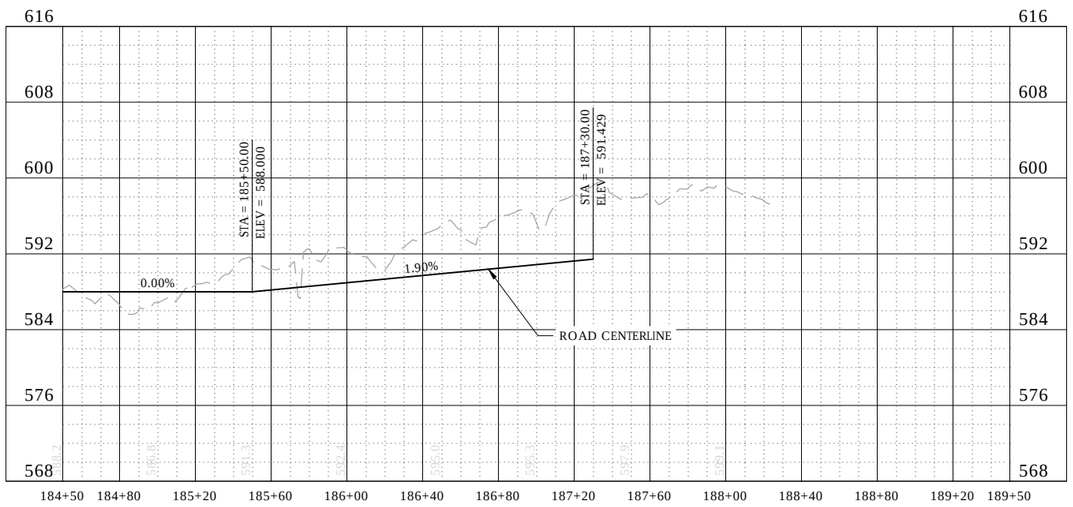
PROJECT NO:	SHEET NO.
21S042.00	C1.10





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SHORELINE PLAN & PROFILE

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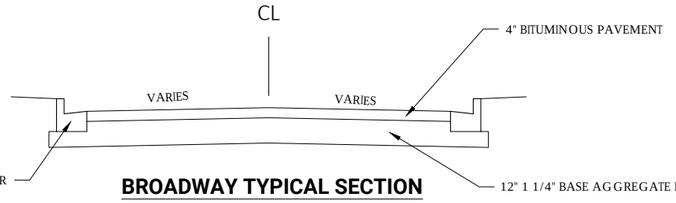

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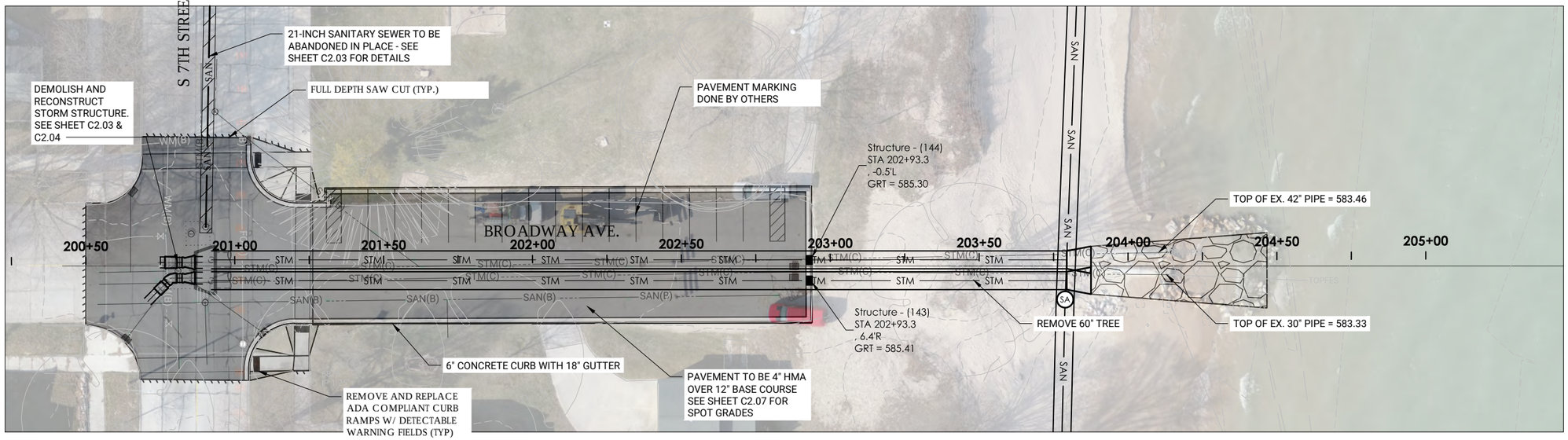

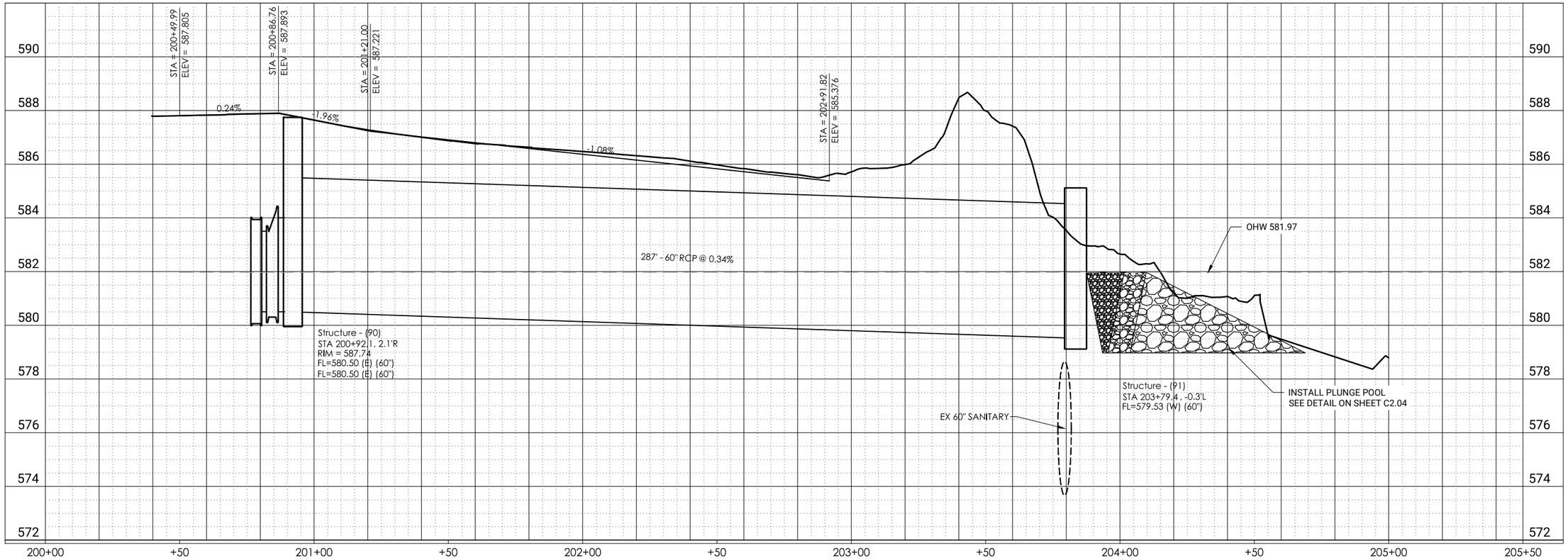

0 20 40
scale feet

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SOUTHSIDE INTERCEPTOR SYSTEM
SHORELINE INFRASTRUCTURE PROTECTION AND ACCESS

BROADWAY AVENUE
STORM SEWER PLAN AND PROFILE

SHEBOYGAN, WI

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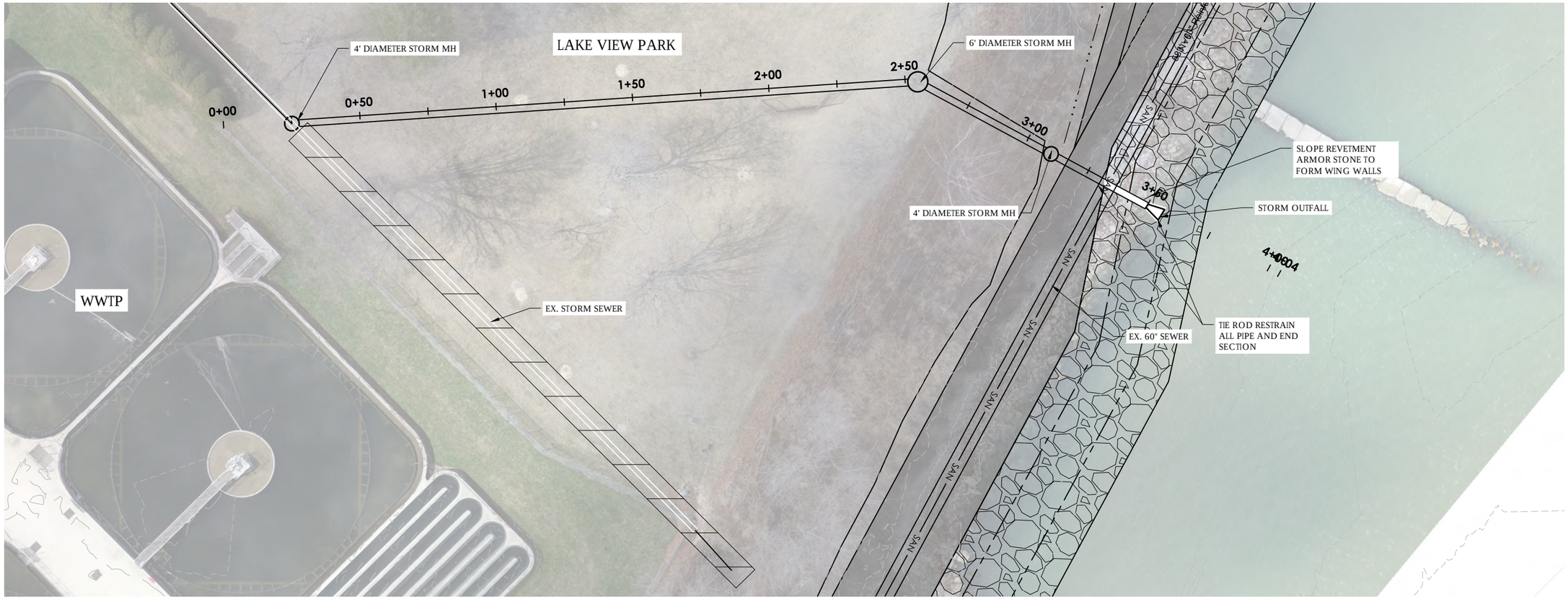
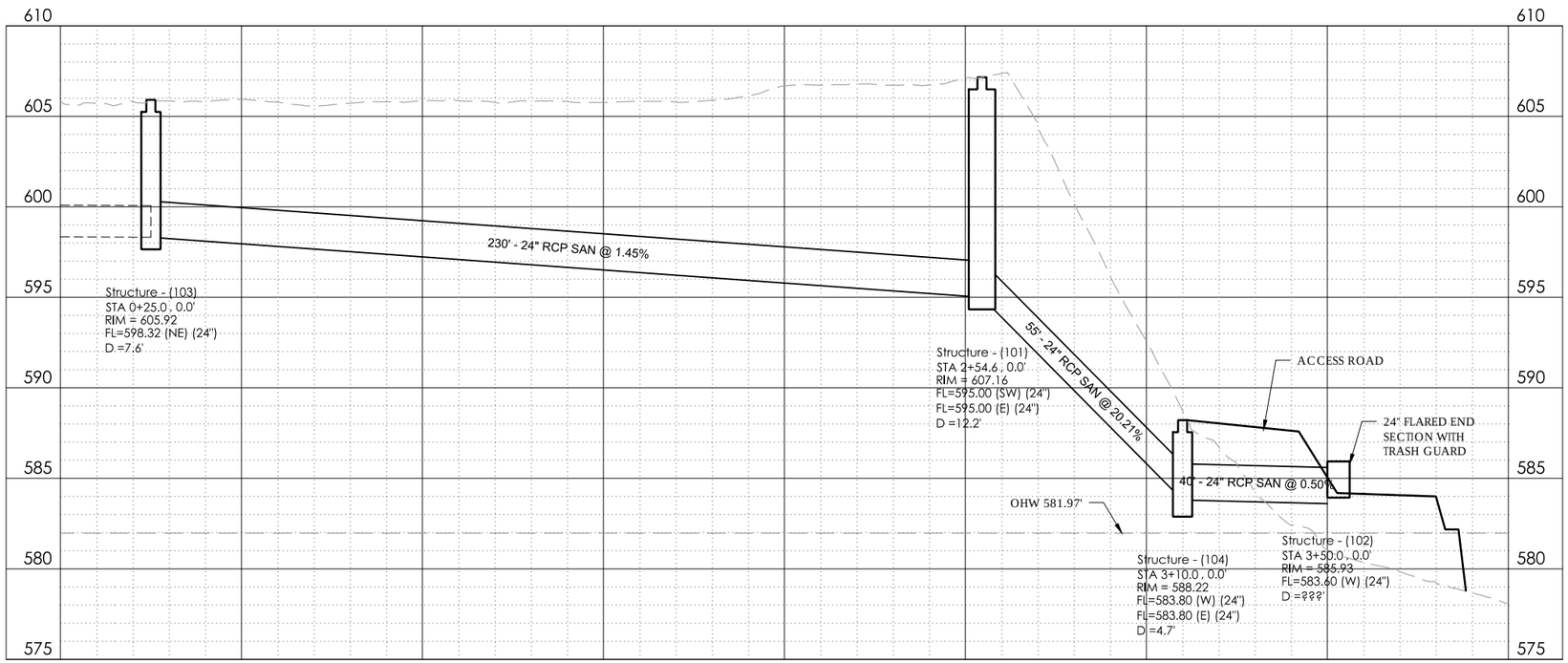
PROJECT NO: 21S042.00		SHEET NO. C2.02





0 20 40
scale feet

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SOUTHSIDE INTERCEPTOR SYSTEM SHORELINE INFRASTRUCTURE PROTECTION AND ACCESS

LAKEVIEW PARK STORM PLAN & PROFILE

SHEBOYGAN, WI

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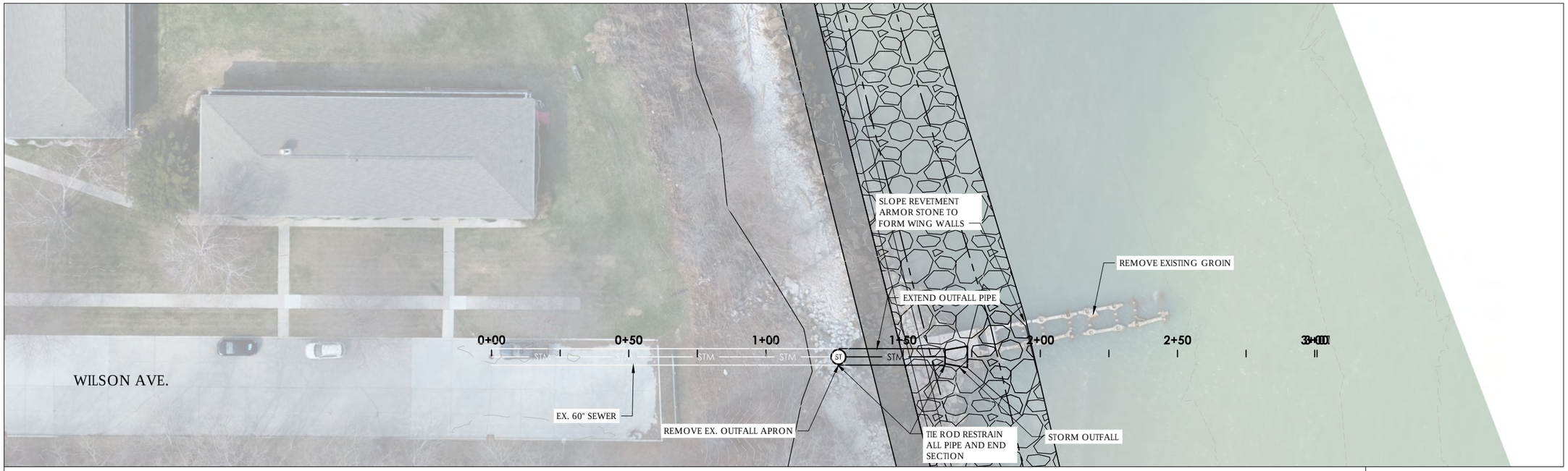

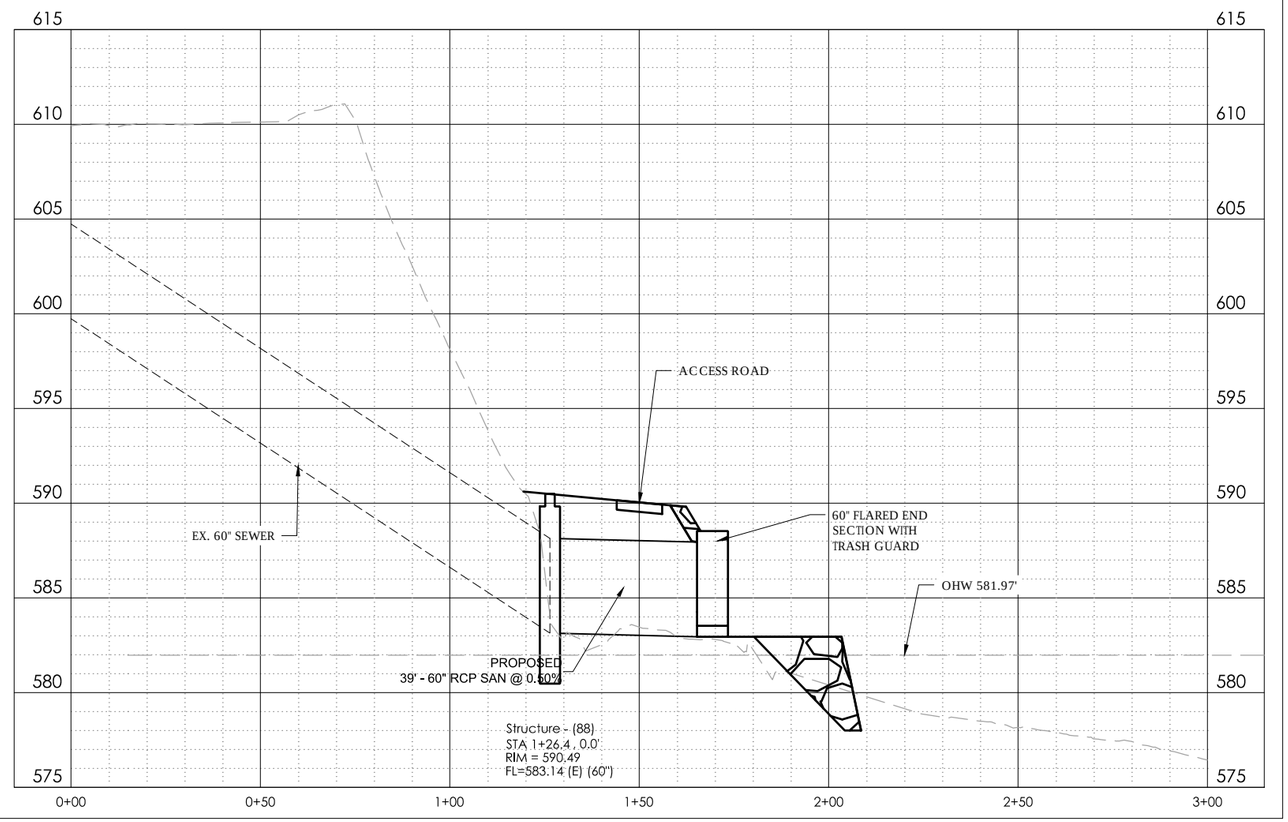

0 20 40
scale feet

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SHORELINE INFRASTRUCTURE
PROTECTION AND ACCESS

WILSON AVE. STORM PLAN & PROFILE

SHEBOYGAN, WI

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