



**State
Revolving
Fund**

State Revolving Fund Loan Programs

Drinking Water, Clean Water, Nonpoint Source

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

CITY OF PORTAGE NORTH INTERCEPTOR PROJECT SRF PROJECT WW 23 53 64 00

DATE: May 30, 2025

PUBLIC COMMENTS DUE BY: July 1, 2025

I. INTRODUCTION

The above entity has applied to the Clean Water State Revolving Fund (SRF) Loan Program for a loan to finance all or part of the Clean Water project described in the accompanying Environmental Assessment (EA). As part of facilities planning requirements, an environmental review has been completed which addresses the project's impacts on the natural and human environment. This review is summarized in the attached EA, which can also be viewed in color at <http://www.in.gov/ifa/srf/>.

II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FONSI)

The SRF Clean Water Program has evaluated all pertinent environmental information regarding the proposed project and determined that an Environmental Impact Statement is not necessary. Subject to responses received during the 30-day public comment period, and pursuant to Indiana Code 5-1.2-3, it is our preliminary finding that the construction and operation of the proposed facilities will result in no significant adverse environmental impact. In the absence of significant comments, the attached EA shall serve as the final environmental document.

III. COMMENTS

All interested parties may comment upon the EA/FONSI. Comments must be received at the address below by the target approval date above. Significant comments may prompt a reevaluation of the preliminary FONSI; if appropriate, a new FONSI will be issued for another 30-day public comment period. A final decision to proceed, or not to proceed, with the proposed project shall be effected by finalizing, or not finalizing, the FONSI as appropriate. Comments regarding this document should be sent within 30 days to:

**Jenni Curry
Environmental Section Manager
State Revolving Fund
100 N. Senate Ave. IGCN 1275
Indianapolis, IN 46204
463-261-6943
jecurry@ifa.in.gov**

ENVIRONMENTAL ASSESSMENT

I. PROJECT IDENTIFICATION

Project Name and Address: North Interceptor project
City of Portage
6700 Central Avenue
Portage, IN 46368

SRF Project Number: **WW 23 53 64 00**

Authorized Representative: Honorable Sue Lynch, Mayor

II. PROJECT LOCATION

The proposed project is located in Porter County, Portage Township, See **Figure 1, Figure 6-1C, and Figure 5**:

- Townships: 36N, 37N
- Ranges: 6W, 7W
- Sections: T36N – 1 - 3, 6 - 8, 10 - 15, 17 - 20, 22 - 27, 30
T37N – 19, 25, 27, 30, 31, 34 – 36

III. PROJECT NEED AND PURPOSE

This project will primarily focus on addressing infiltration and inflow (I&I) and known deteriorating infrastructure within the collection system. The intent of the proposed improvements is to analyze the effects of the pipe rehabilitation / I&I reduction efforts throughout the system over time and identify any future capacity improvement needs.

The City's existing wastewater system is 100% separated storm and sanitary sewer. However, the system operates similar to a combined sewer system and shows significantly higher flows during rain events.

IV. PROJECT DESCRIPTION

The recommended collection system improvements include, various lift station improvements (including conversion, replacement or renovation of existing lift stations), and the North Interceptor project. The recommended improvements for the North Interceptor include installation of approximately 1,500 linear feet (lf) of 10-inch force main, 5,700 lf of 16-inch force main, and 3,800 lf of new 24-inch sanitary interceptor. A new 3,000 GPM lift station will be constructed with pumps and variable frequency drive (VFD), with connection of the existing northside lift station to the new lift station, and other project related appurtenances.

Thirteen lift stations will be either replaced or renovated. Lift station improvements include abandonments of current lift station and construction of new lift station, installing new gravity pipes and manholes, installation of connecting force mains. Renovation of existing lift stations would include new pumps, electrical components, and project related appurtenances. Additionally, the Lakewood Lift station will be abandoned and 1,530 feet of sanitary sewer main and manholes will be to convey all the flow to the new Hamstrom Lift Station.

V. ESTIMATED PROJECT COSTS, AFFORDABILITY, AND FUNDING

Selected Plan Estimated Cost Summary

Construction Costs

North Interceptor	\$11,654,000
Lift Station Improvements	<u>10,511,000</u>
Total Construction	\$22,165,000

The total cost of this project is estimated to be approximately \$22,165,000. The City of Portage intends to finance the project with a loan from the Clean Water SRF Loan Program for a term and annual fixed interest rate to be determined at loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

VI. DESCRIPTION OF EVALUATED ALTERNATIVES

North Interceptor Improvements

The “**No Action**” alternative is not practical, environmentally sound or economical. The basin 15 area contains several portions of the collection system that are currently at maximum capacity and required increased capacity to meet current and projected flows. This alternative would provide no improvements to the collection system. The existing infrastructure results in sanitary sewer overflows (SSO) and therefore needs to be addressed. Given the future growth of the areas within basin 15, it would be expected that this alternative would result in increased SSO’s in the future. As the City is required to reduce and eliminate SSO’s by the Indiana Department of Environmental Management (IDEM), this is not the recommended alternative and will no longer be considered.

Replacement of Undersized Sewers and US Steel Lift Station: In this alternative, all undersized sewers in Basin 15 will be upsized and the two lift stations (US Steel and Southport) will be replaced to accommodate the future flow. This will not allow for additional flows so it will no longer be considered.

New Northside Interceptor: In this alternative, a new 3,000 GPM lift station will be constructed north of the WWTP and along Marine Drive and the Northside lift station flow will be redirected to the west below Burns Waterway to the area north of the WWTP which is anticipated to be developed. The force main from the new lift station will be constructed below Burns Waterway and I-94. The force main will connect to the preliminary treatment facility at the WWTP. The Northside lift station will be renovated and upgraded. New gravity sewers will prevent flows from future development planned in this area from overwhelming the existing sewers in place currently routing flows to the interceptor. **This is the recommended alternative** as it will meet the needs to reduce and eliminate SSO’s and will allow for additional flows.

Lift Station Improvements

The City’s collection system infrastructure are past its useful life and are in need of rehabilitation or replacement. The “**No Action**” alternative would provide no improvements to the collection system so it will no longer be considered.

Lift Station Improvements: A total of thirteen lift stations were evaluated for rehabilitation and/or replacement. These lift stations were evaluated based on high priority and medium priority. The high

priority lift stations are recommended to be rehabilitated or replaced. **This is the recommended alternative** as it addresses the aging infrastructure.

VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

A. Direct Impacts of Construction and Operation

Disturbed/Undisturbed Land: Work related to the installation of lift stations or installation of sewers will occur in disturbed rights-of-way, adjacent to and within roadways, alleys and existing utility trenches. All areas have been previously disturbed by previous construction activity or have been subject to an archaeological survey.

Structural Resources (Figure 2): Construction and operation of the project will not alter, demolish or remove historic properties. If any visual or audible impacts to historic properties occur, they will be temporary and will not alter the characteristics that qualify such properties for inclusion in or eligibility for the National Register of Historic Places. The SRF's finding pursuant to Section 106 of the National Historic Preservation Act is: "*no historic properties affected.*"

Surface Waters: The project will not adversely affect outstanding state resource waters listed in 327 IAC 2-1.3-3(d), exceptional use streams listed in 327 IAC 2-1-11(b), Natural, Scenic and Recreational Rivers and Streams listed in 312 IAC 7-(2). The East Branch Little Calumet River is designated as a Salmonid Streams and is also listed on Indiana's Outstanding River List.

The interceptor and force main installations included in the project are to be installed utilizing trenchless installation methods, such as directional drilling or bore and jacking, to avoid any impacts to the Burns Waterway and the East Branch of the Little Calumet.

Wetlands (Figure 3): Wetlands may be impacted by the construction of the interceptor and sewer main. Mitigation measures to lessen and compensate for wetland impacts cited in comment letters about the project from the Indiana Department of Natural Resources and the U.S. Fish and Wildlife Service will be implemented.

Floodplain (Figure 4): The Brentwood lift station is located within the 100-year floodway of Salt Creek. The North Interceptor project will cross the 100-year floodway at the Burns Ditch Waterway. Construction in a floodway permits will be acquired as required by the Indiana Department of Natural Resources. All other project locations are not located within the 100-year floodway.

Groundwater: Groundwater will not be impacted by the construction or operation of the proposed project.

Plants and Animals: The project will clear trees along the interceptor and sewer route. The proposed project items will be implemented to minimize impact to non-endangered species and their habitat. Mitigation measures cited in comment letters from the Department of Natural Resources and the U.S. Fish and Wildlife Service will be implemented.

Prime Farmland: The project will convert prime farmland.

Air Quality: Construction activities may generate some noise, fumes and dust, but should not significantly affect air quality.

Open Space and Recreational Opportunities: The project will neither create nor destroy open space or recreational opportunities.

Lake Michigan Coastal Program: The project will not affect the Lake Michigan Coastal Zone.

National Natural Landmarks: Construction and operation of the proposed project will not affect National Natural Landmarks.

B. Indirect Impacts

The city's PER states: *The City through the authority of its council, planning commission or sewer and drainage boards, will ensure that future development, as well as future wastewater infrastructure projects connecting to SRF-funded facilities will not adversely affect wetlands, wooded areas, steep slopes, archaeological/historical/structural resources or other sensitive environmental resources. The City will require new development and infrastructure projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, IDNR, IDEM, and other environmental review authorities.*

C. Comments from Environmental Review Authorities

In correspondence dated March 20, 2025, the Indiana Department of Natural Resources Division of Historic Preservation and Archaeology stated:

Pursuant to Indiana Code 5-1.2-10, Section 106 of the National Historic Preservation Act (54 U.S.C. § 306108), and 36 C.F.R. Part 800, the Indiana State Historic Preservation Officer (“Indiana SHPO”) is conducting an analysis of the materials received by the Indiana SHPO on February 24, 2025, for the above indicated project in Portage Township, Porter County, Indiana.

Thank you for providing the reconnaissance level archaeological survey as requested in our letter dated February 20, 2025.

Based on our analysis, it has been determined that no historic properties will be altered, demolished, or removed by the proposed project.

As stated previously, if any project ground disturbance is within 100 feet of a cemetery, please be aware of the requirements in Indiana Code (IC) 14-21-1-26.5. In addition, please be aware of the restrictions on utility construction in Indiana Code (IC) 23-14-44-1.

If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-27 and 29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. 800.

In correspondence dated May 7, 2025, the United States Fish and Wildlife Service stated:

The USFWS concluded that the proposed project impacts, project code 2025-0043384, would have a “not likely to adversely affect” determination on the Indiana bat (*Myotis sodalis*), Northern Long-eared Bat (*Myotis septentrionalis*), and the, proposed endangered, Tricolored Bat (*Perimyotis subflavus*). All other species were excluded from analysis. The USFWS proposed several conservation measures which include:

Trees shall be removed from October 1 – March 31

In correspondence dated April 16, 2025, the Department of Natural Resources Environmental Unit stated:

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

Regulatory Assessment: *This proposal will require the formal approval for construction in a floodway under the Flood Control Act, IC 14-28-1, unless it qualifies for a general license under Administrative Rule 312 IAC 10-5 that applies to utility line crossings. Please include a copy of this letter with the permit application if the project does not meet the general license criteria.*

Natural Heritage Database:

The Natural Heritage Program's data have been checked. The Division of Nature Preserves does not anticipate any significant impacts to the below-listed properties, communities, or species of flora near the Brentwood Lift Station or the Northside Lift Station. The project area should be confined as much as possible at the New Lift Station to avoid and minimize impacts to the listed communities and species of flora near this site. The following have been documented within .5 mile of the project areas:

Brentwood Lift Station

Property: Portage Parks

*Flora: Smaller-forget-me-not (*Myosotis laxa*), State threatened*

Northside Lift Station

Property: Izaak Walton League

Communities: Dry Sand Prairie & Dry Sand Savanna

*Insects: Wilterding's Sand Pyla (*Pyla arenaeola*), State endangered
Great Lakes Dune Spittlebug (*Philaenarcys killa*), State rare*

*Flora: Black-fruit Mountain-rice Grass (*Patis racemosa*), State threatened*

*Jack Pine (*Pinus banksiana*), State threatened*

*Long Sedge (*Carex folliculata*), State threatened*

*Rushlike Aster (*Symphyotrichum boreale*), State threatened*

*Sand-heather (*Hudsonia tomentosa*), State threatened*

*Seabeach Needlegrass (*Aristida tuberculosa*), State threatened*

*Western Silvery Aster (*Symphyotrichum sericeum*), State threatened*

*Fauna Blanding's Turtle (*Emydoidea blandingii*), State endangered*

*Eastern Massasauga (*Sistrurus catenatus*), State endangered*

*Spotted turtle (*Clemmys guttata*), State endangered*

New Lift Station

Property Indiana Dunes National Park

Community Dry Sand Savanna

*Insects Frosted Elfin (*Callophrys irus*), State endangered*

Phlox Flower Moth (Schinia indiana), State endangered
Dusted Skipper (Atrytonopsis hianna), State rare

Flora Common's Panic-grass (Dichanthelium commonsianum), State endangered
Ledge Spike-moss (Selaginella rupestris), State endangered
Northeastern Smartweed (Persicaria opelousana), State threatened
Northern Witchgrass (Dichanthelium boreale), State threatened
Rushlike Aster (Symphyotrichum boreale), State threatened
Sand-heather (Hudsonia tomentosa), State threatened
Spoon-leaved Sundew (Drosera intermedia), State threatened
Water Bulrush (Schoenoplectus subterminalis), State threatened

Fauna Migratory Bird Concentration Area

Fish and Wildlife Comments:

Avoid and minimize impacts to fish, wildlife, and botanical resources to the greatest extent possible, and compensate for impacts. The following are recommendations that address potential impacts identified in the proposed project area:

A. Heritage Species: The Division of Fish and Wildlife does not anticipate any significant impacts to the Blanding's Turtle, Eastern Massasauga, Spotted Turtle, or Migratory Bird Concentration Area due to this project.

B. Directional Boring/Open Trenching: Directional boring is the preferred method for crossing streams with utility lines. Install erosion control measures such as silt fence or other appropriate measures around directional drilling pits to prevent drilling mud from leaving the immediate area of the pit or entering the stream. The Division of Fish and Wildlife understands directional boring is not always an option. When using the open trench method, the utility line must be installed as quickly as possible to avoid silt and sediment loading of the stream. The utility line must be covered with graded stone and riprap to prevent erosion of the streambed in the vicinity of the crossing. For streambed stabilization, riprap or other stabilization materials must not be placed in the active stream channel above the existing streambed elevation. This is to prevent obstructions to the movement of aquatic organisms upstream and downstream. Regardless of the installation method used, the utility line must be installed below the existing streambed elevation at least 3 feet, measured perpendicularly to the utility line, between the lowest point of the streambed and the top of the pipeline or its encasement, whichever is higher.

C. Tree Removal: The Division of Fish and Wildlife recommends avoiding tree removal along roadways to the greatest extent possible and replacing trees that must be removed to maintain the economic, aesthetic, and ecological benefits provided by trees. The following links give a good overview of the benefits of a street tree program and how to select the right species to avoid the negative impacts of non-native invasive species such as the common and popular Bradford pear: <https://www.in.gov/dnr/forestry/forestry-publications-and-presentations/> (scroll down to the Community & Urban Forestry section).

Additionally, we recommend a mitigation plan be developed (and submitted with the permit application, if required) for any unavoidable habitat impacts that will occur. The DNR's Habitat Mitigation Guidelines (and plant lists) can be found online at: <https://www.in.gov/nrc/files/IB-17.pdf>.

Impacts to non-wetland forest of one (1) acre or more in a rural or urban area should be mitigated at a minimum 2:1 ratio based on area of impact. Impacts to non-wetland forest under one (1) acre but at least 0.10 acre in a rural or urban area should be mitigated at a

minimum 1:1 ratio based on area of impact. Impacts under 0.10 acre in a rural area typically do not require mitigation or additional plantings beyond seeding and stabilizing disturbed areas, though there are exceptions for high quality habitat sites. Impacts under 0.10 acre in an urban area should be mitigated by replacing each mature tree removed (trees that are 10" diameter-at-breast height (dbh)) with two trees of 3-gallon stock or larger. Seeding and stabilizing disturbed areas is required regardless of the impact amount and location.

The mitigation site should be located in the floodway, downstream of the one (1) square mile drainage area of that stream (or another stream within the 8-digit HUC, preferably as close to the impact site as possible) and adjacent to existing forested riparian habitat.

The additional measures listed below should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources:

1. *Revegetate all bare and disturbed areas that are not currently mowed and maintained with a mixture of grasses, sedges, and wildflowers native to Northern Indiana as soon as possible upon completion; turf-type grasses (including low-endophyte, friendly endophyte, and endophyte free tall fescue but excluding all other varieties of tall fescue) may be used in currently mowed areas only. A native herbaceous seed mixture must include at least 5 species of grasses and sedges and 5 species of wildflowers.*
2. *Minimize and contain within the project limits inchannel disturbance and the clearing of trees and brush.*
3. *Do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife.*
4. *Do not cut any trees suitable for Indiana Bat or Northern Long-eared Bat roosting (3 inches or greater diameter-at-breast height, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.*
5. *Do not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pumphounds.*
6. *Use minimum average 6-inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.*
7. *Do not use broken concrete as riprap.*
8. *Underlay the riprap with a bedding layer of well graded aggregate or a geotextile to prevent piping of soil underneath the riprap.*
9. *All excavated material must be properly spread or completely removed from the project site such that erosion and off-site sedimentation of the material is prevented.*
10. *Minimize the movement of resuspended bottom sediment from the immediate project area.*
11. *Do not deposit or allow construction/demolition materials or debris to fall or otherwise enter the waterway. Any incidental fallen material or debris in the waterway must be removed within 24 hours using best management practices, particularly lifting material out of the waterway and not dragging it across the streambed whenever possible.*
12. *Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the waterbody or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.*
13. *Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.*

In correspondence dated April 5, 2024, the Natural Resources Conservation Service stated:

The proposed wastewater improvements in the City of Portage, Porter County, Indiana as referred to in your letter received March 14, 2024, will cause a conversion of prime farmland.

VIII. MITIGATION MEASURES

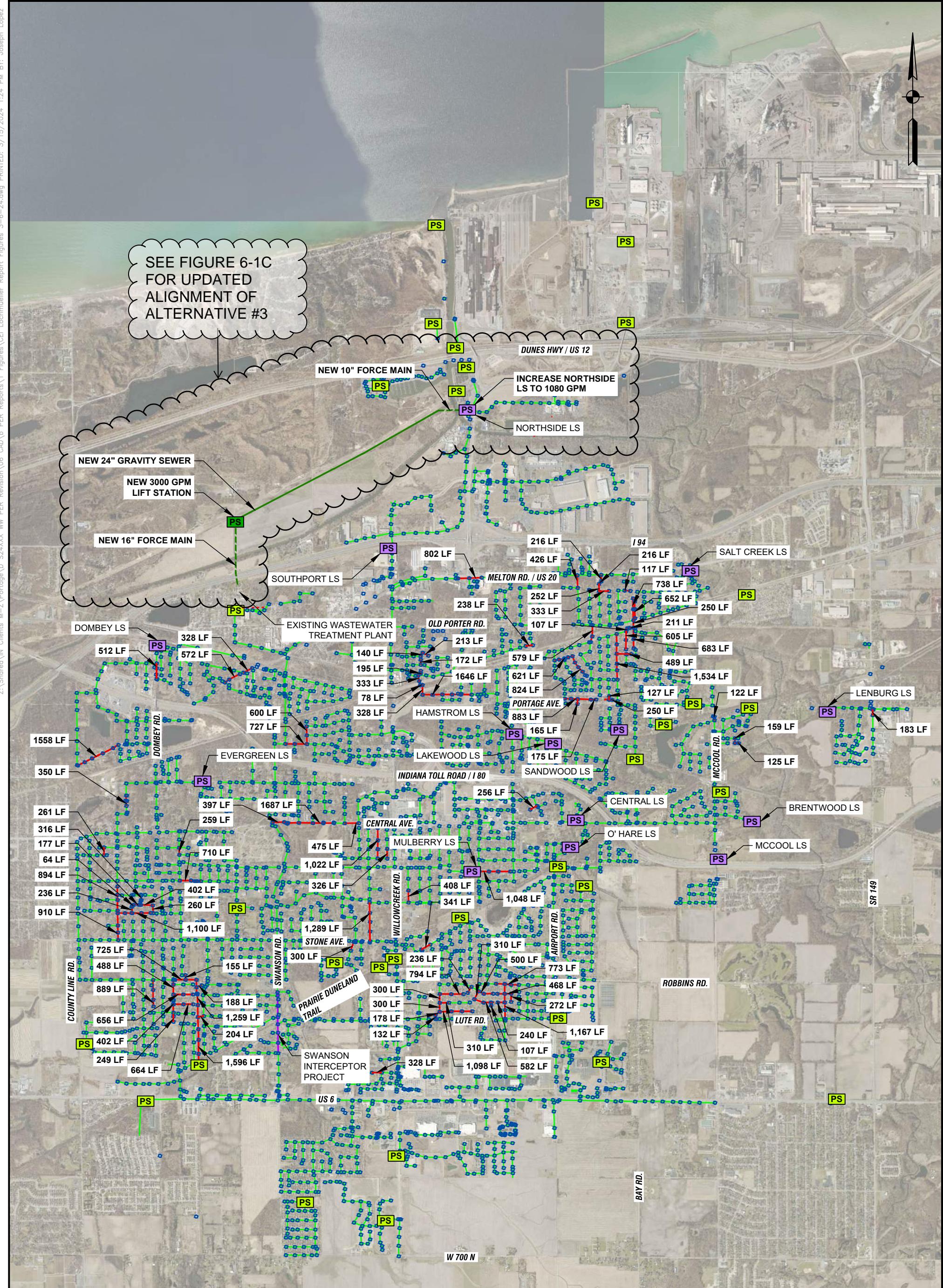
City of Portage's PER states:

The following measures are recommended to mitigate potential adverse environmental impacts:

- 1. Implement appropriate temporary erosion control measures (straw bale barriers, silt fencing, etc.) to prevent soil runoff leaving the construction site.*
- 2. Protect disturbed slopes with sod or erosion control blankets upon sewer line installation.*
- 3. Minimize fugitive dust from construction activities by wetting the construction area periodically and constructing wind barriers or treating with chemical stabilizers if necessary.*
- 4. Any soil tracking from construction equipment will be removed from the streets on a daily basis.*
- 5. Implement all applicable water pollution control measures specified in the Indiana Department of Transportation Standard Specifications (latest version). Appropriate measures will be taken to prevent siltation of nearby surface and underground water resources with dewatering flows or construction related runoff.*
- 6. Maintain all equipment to manufacturers specifications to minimize construction noise, and where appropriate utilize temporary noise barriers to reduce noise levels.*
- 7. The open burning of debris (i.e., trees and shrubs) shall not be allowed unless a permit is obtained from the Indiana State Air Pollution Control Division for such activities.*
- 8. Cutback asphalt or asphalt emulsion containing more than seven percent oil distillable shall not be used during the months April through October pursuant to 326 IAC 805 Asphalt Paving Rule.*
- 9. The contractor shall abide by the rules governing asbestos notification, handling, disposal and contractor licensing should such material be encountered.*
- 10. Construction waste shall be disposed of by the contractor at an acceptable waste disposal landfill. If contaminated soils (including PCB's) are discovered during the project, they may be subject to disposal as either special or hazardous waste as determined by the Office of Solid and Hazardous Waste Management.*
- 11. The City through the authority of its council, planning commission or sewer and drainage boards, will ensure that future development, as well as future wastewater infrastructure projects connecting to SRF-funded facilities will not adversely affect wetlands, wooded areas, steep slopes, archaeological/historical/structural resources or other sensitive environmental resources. The City will require new development and infrastructure projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, IDNR, IDEM, and other environmental review authorities.*

IX. PUBLIC PARTICIPATION

A properly noticed public hearing was held on March 27, 2024, at 11 am at Portage City Hall, 6070 Central Avenue, Portage, IN 46368. Questions about this project were answered during the hearing. No written comments were received in the 5-day period following the hearing for this project.



LEGEND:

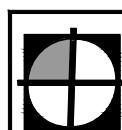
	GRAVITY MAINS		NEW LIFT STATION
	SWANSON INTERCEPTOR PROJECT		LIFT STATION IMPROVEMENTS
	PIPES TO BE LINED		
	NEW 24" GRAVITY INTERCEPTOR		
	NEW FORCE MAIN		
	EXISTING MANHOLES		
	EXISTING LIFT STATIONS		

SCALE: 1"=3000'-0"

**CITY OF PORTAGE
PORTER COUNTY, INDIANA**

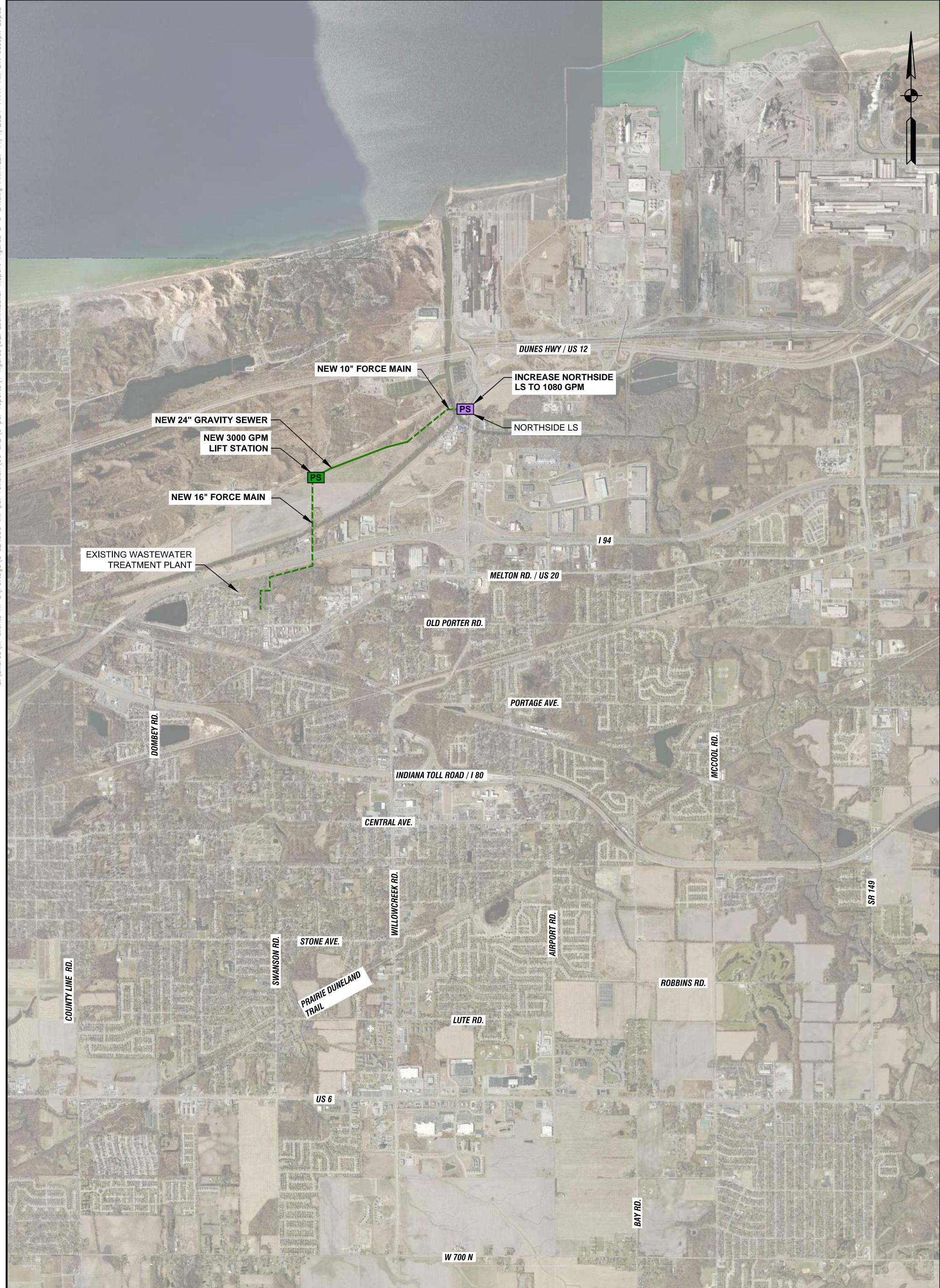
MINIARY ENGINEERING REPORT - AMENDMENT 1

COLLECTION SYSTEM ALTE



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A wealth of resources to master a common goal

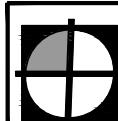


LEGEND:

- NEW 24" GRAVITY INTERCEPTOR
- NEW FORCE MAIN
- PS LIFT STATION IMPROVEMENTS
- PS NEW LIFT STATION

SCALE: 1"=3000'-0"

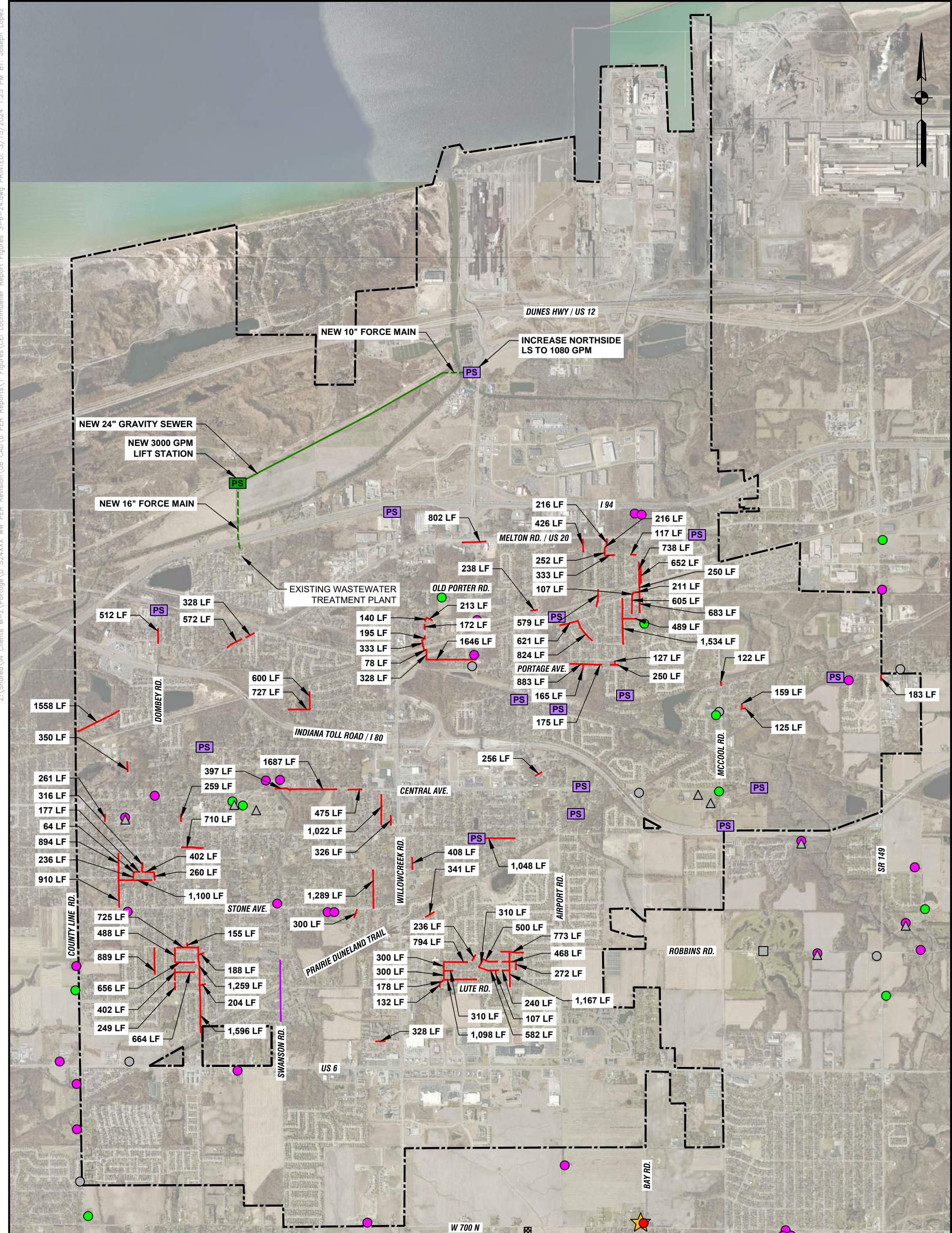
0 3000' 6000'



**COMMONWEALTH
ENGINEERS, INC.**

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CITY OF PORTAGE PORTER COUNTY, INDIANA	
PRELIMINARY ENGINEERING REPORT - AMENDMENT 1	
NORTHSIDE INTERCEPTOR PROJECT FIGURE 6-1C	



LEGEND:

- SWANSON INTERCEPTOR PROJECT
- PIPES TO BE LINED
- PROJECT AREA
- NEW 24" GRAVITY INTERCEPTOR
- NEW FORCE MAIN
- NEW LIFT STATION
- LIFT STATION IMPROVEMENTS

HISTORIC BRIDGES:

- OUTSTANDING
- NOTABLE
- CONTRIBUTING
- NON-CONTRIBUTING
- DEMOLISHED
- UNKNOWN OR NOT RELATED
- ▲ CEMETERIES
- ★ NATIONAL REGISTER SITES
- ▣ HISTORIC DISTRICTS

COUNTY SURVEY SITES:

- OUTSTANDING
- NOTABLE
- CONTRIBUTING
- NON-CONTRIBUTING
- DEMOLISHED
- UNKNOWN OR NOT RELATED

SCALE: 1"=3000'-0"

A horizontal scale bar with three tick marks. The first tick mark is labeled '0'. The second tick mark is labeled '3000''. The third tick mark is labeled '6000''. The segments between the tick marks are colored black, white, and black respectively.

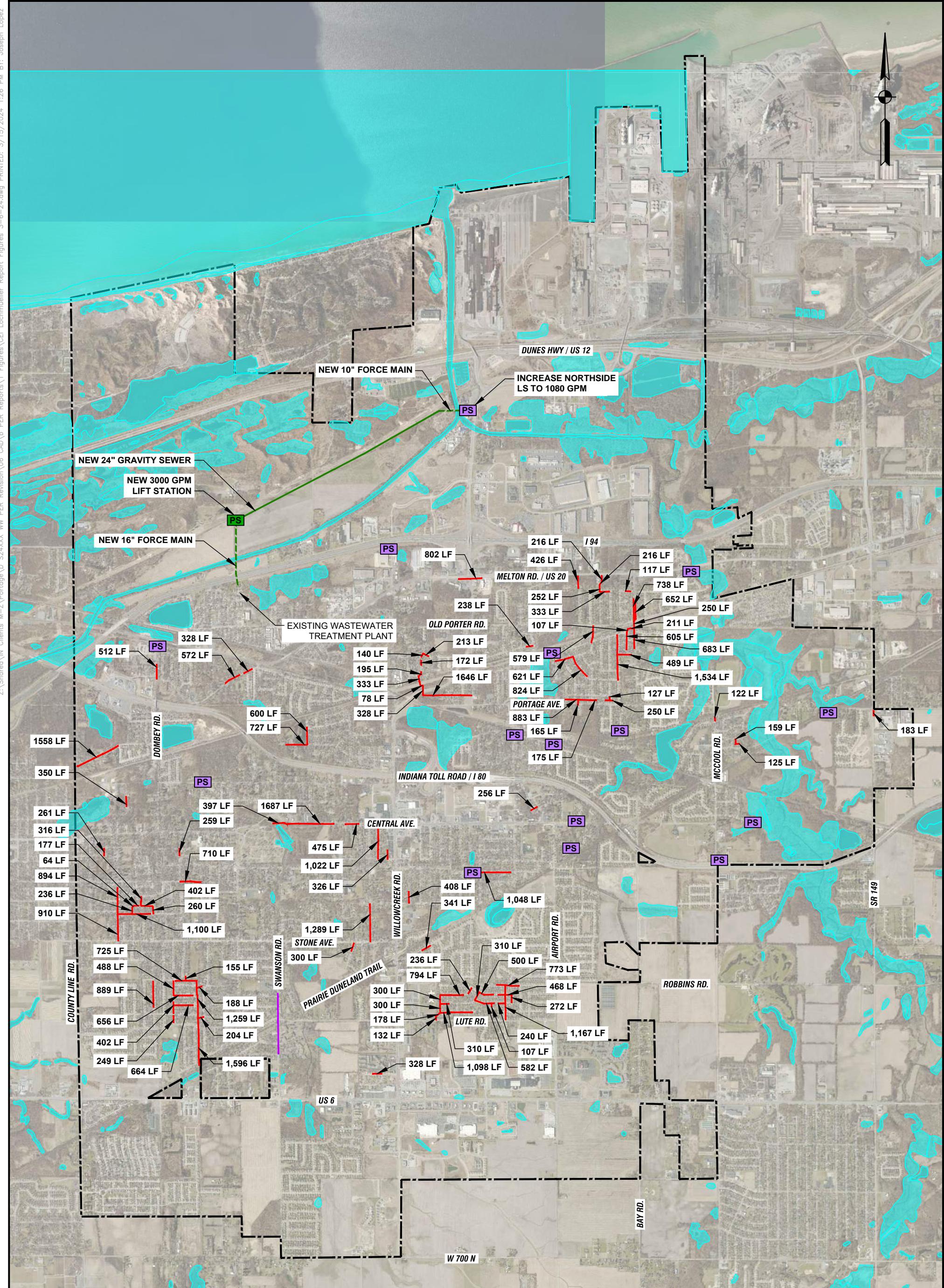
CITY OF PORTAGE
PORTER COUNTY, INDIANA

PORTER COUNTY, INDIANA
PRELIMINARY ENGINEERING REPORT - AMENDMENT

HISTORIC BUILDINGS, BRIDGES, & CEMETERIES

FIGURE 2

Digitized by srujanika@gmail.com



LEGEND:

Legend for the Swanson Interceptor Project map:

- SWANSON INTERCEPTOR PROJECT** (Purple line)
- PIPS TO BE LINED** (Red line)
- PROJECT AREA** (Black dashed line)
- NEW 24" GRAVITY INTERCEPTOR** (Green line)
- NEW FORCE MAIN** (Green dashed line)
- LIFT STATION IMPROVEMENTS** (Purple box with PS)
- NEW LIFT STATION** (Green box)



WETLANDS NWI (USFWS)

SCALE: 1"=3000'-0"

0 3000' 6000'



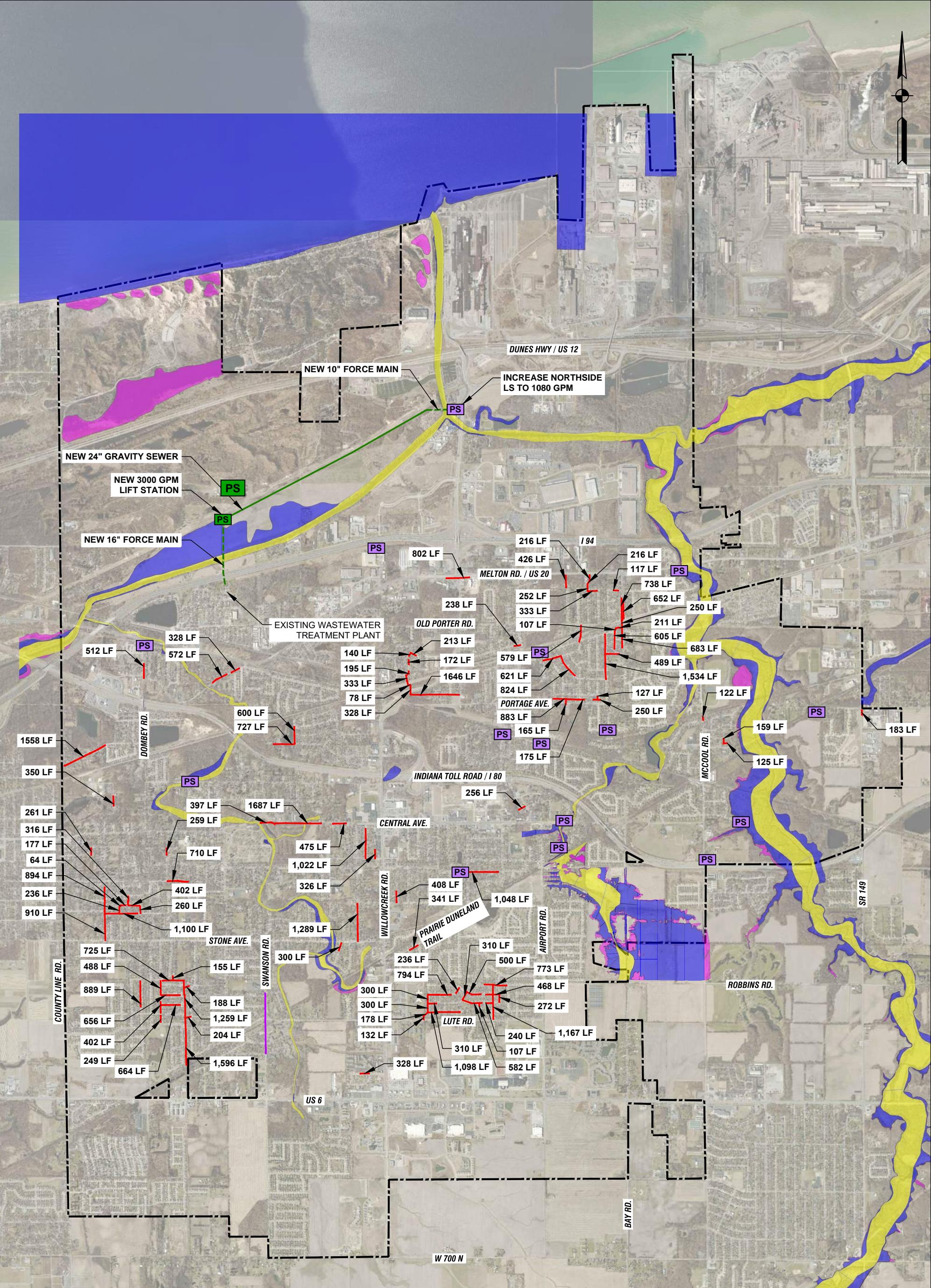
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**CITY OF PORTAGE
PORTER COUNTY, INDIANA**

PRELIMINARY ENGINEERING REPORT - AMENDMENT 1

**WETLANDS MAP
FIGURE 3**



LEGEND:

- SWANSON INTERCEPTOR PROJECT
- PIPES TO BE LINED
- PROJECT AREA
- NEW 24" GRAVITY INTERCEPTOR
- NEW FORCE MAIN
- PS** LIFT STATION IMPROVEMENTS
- LS** NEW LIFT STATION

FLOODPLAINS - FIRM (MAR 2020):

-  FLOODWAY
-  1% ANNUAL CHANCE FLOOD HAZARD
-  0.2% ANNUAL CHANCE, PROTECTED BY LEVEE
-  0.2% ANNUAL CHANCE FLOOD HAZARD

SCALE: 1"=3000'-0"

0 3000' 6000'



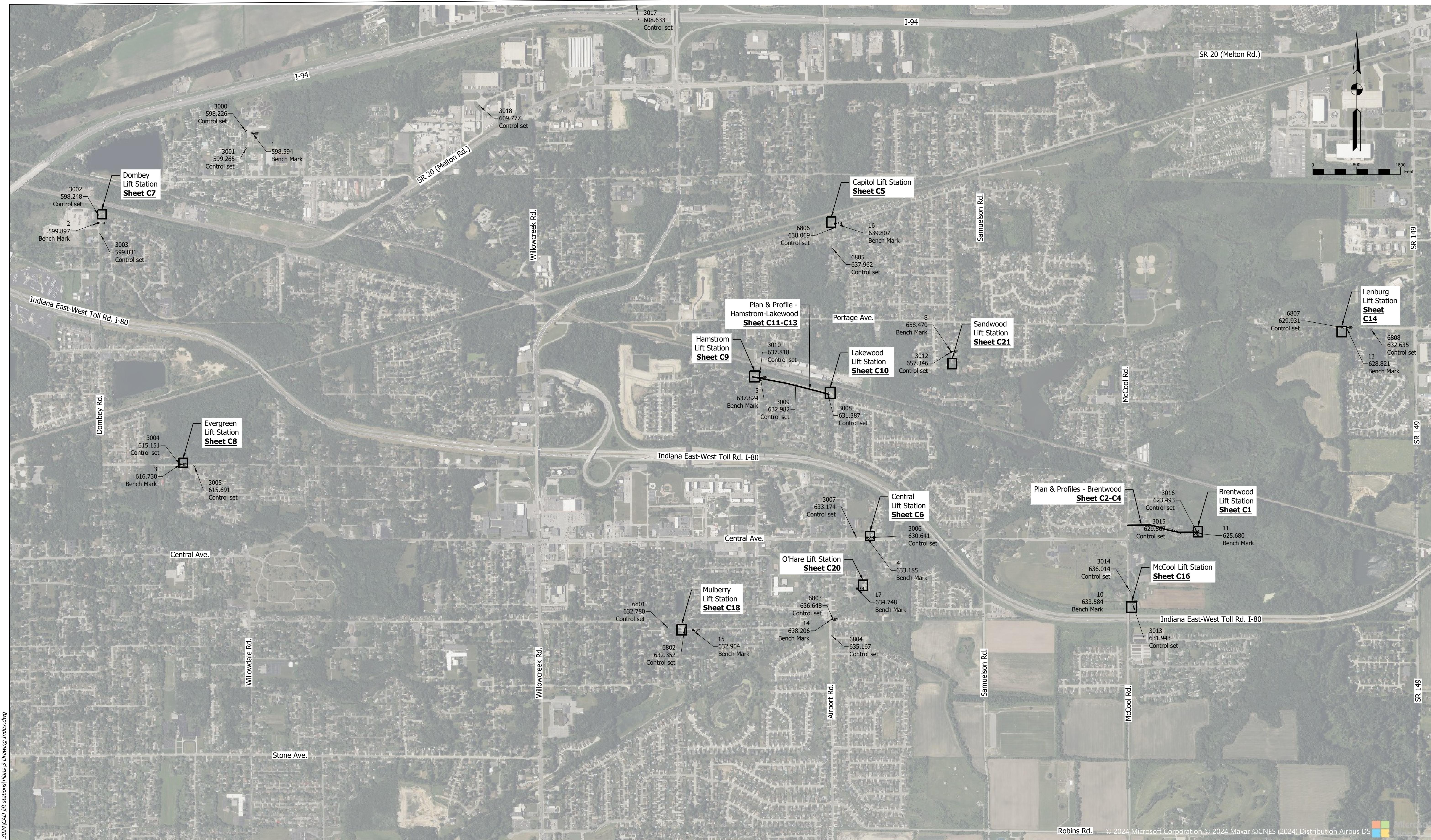
COMMONWEALTH ENGINEERS, INC.

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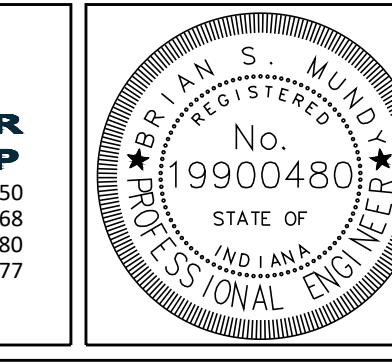
**CITY OF PORTAGE
PORTER COUNTY, INDIANA**

PRELIMINARY ENGINEERING REPORT - AMENDMENT 1

**FLOODPLAIN MAP
FIGURE 4**



REVISIONS		
DATE	REVISION	BY



RECOMMENDED FOR APPROVAL		12/06/24
Brian S. Mundy, P.E.		
DESIGNED:	BSM	DRAWN: MDS
CHECKED:	DEW	CHECKED: MJC

CITY OF PORTAGE LIFT STATION IMPROVEMENTS	
DRAWING INDEX	

SCALE
1" = 1000'
CONSULTANT PROJECT NUMBER
123-3024-00W
SHEET
Figure 5