PORTSMOUTH GASEOUS DIFFUSION PLANT
POST D&D CONFIGURATION PLAN

FUTURE VISION

Prepared by

FFE Inc.
ENGINEERING & TECHNICAL SERVICES

PROJECT SCOPE

Create conceptual Report with Figures to display the final configuration and infrastructure

REPORT DEVELOPMENT

- Reviewed site history, drawings, reports
- Interviewed FBP, DOE, SODI, & SSAB representatives
- Studied layout & function of existing infrastructure
- Questioned knowledgeable site personnel about infrastructure issues
- Performed field investigations of specific infrastructure features with knowledgeable site personnel

OBJECTIVE

- Create a post D&D site configuration attractive to industrial tenants

POSITIVE EXISTING CONDITIONS

- Excellent access to major roadways
- Excellent rail service
- Good Sanitary Water distribution system
- Excellent Electrical supply & distribution system
- Good High Pressure Fire Water system
- Wastewater collection system
- Existing natural gas service
- Numerous existing rights-of-ways with pipelines

NEGATIVE EXISTING CONDITIONS

- Existing landfills & groundwater plumes in area where industrial development is being proposed
- Water treatment plant old, oversized, and in prime location for industrial development
- Wastewater treatment plant old
- Wastewater effluent line contaminated

EXISTING TOPOGRAPHY

(layout of the existing site)

POSSIBLE END STATE

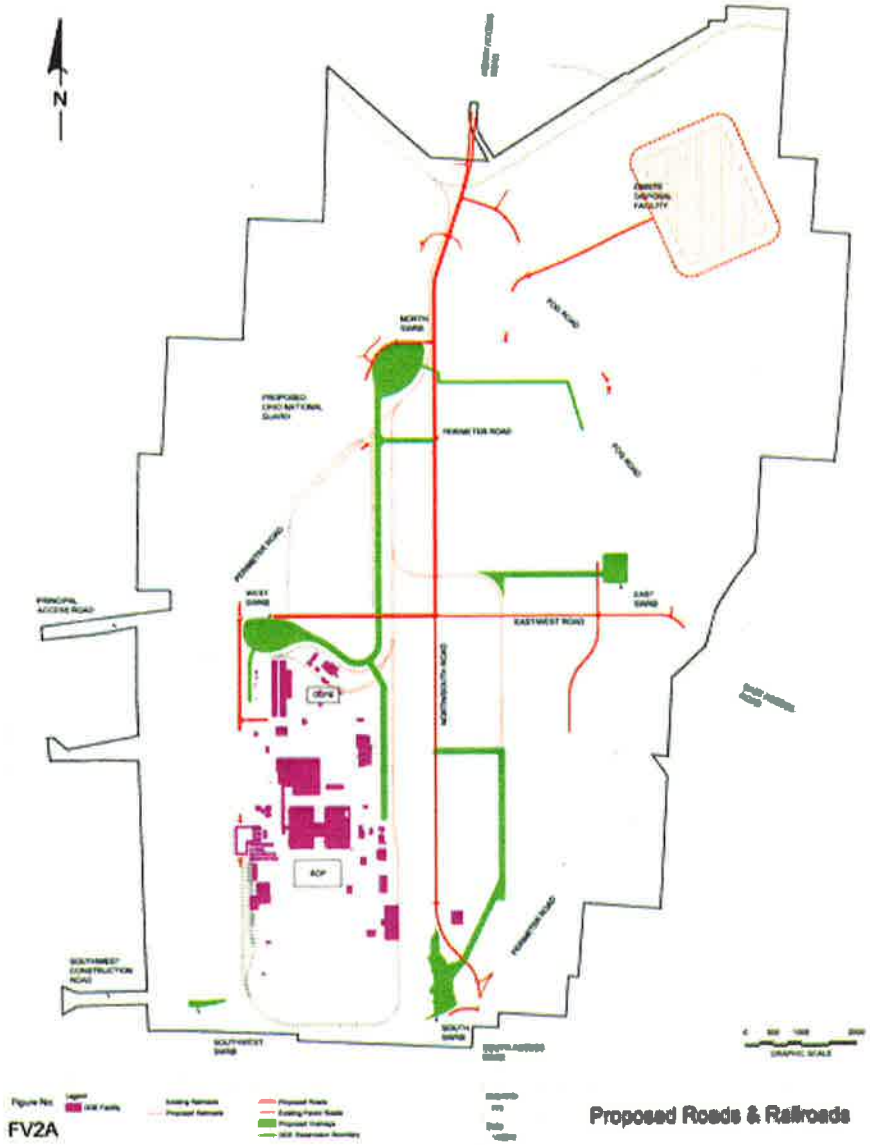
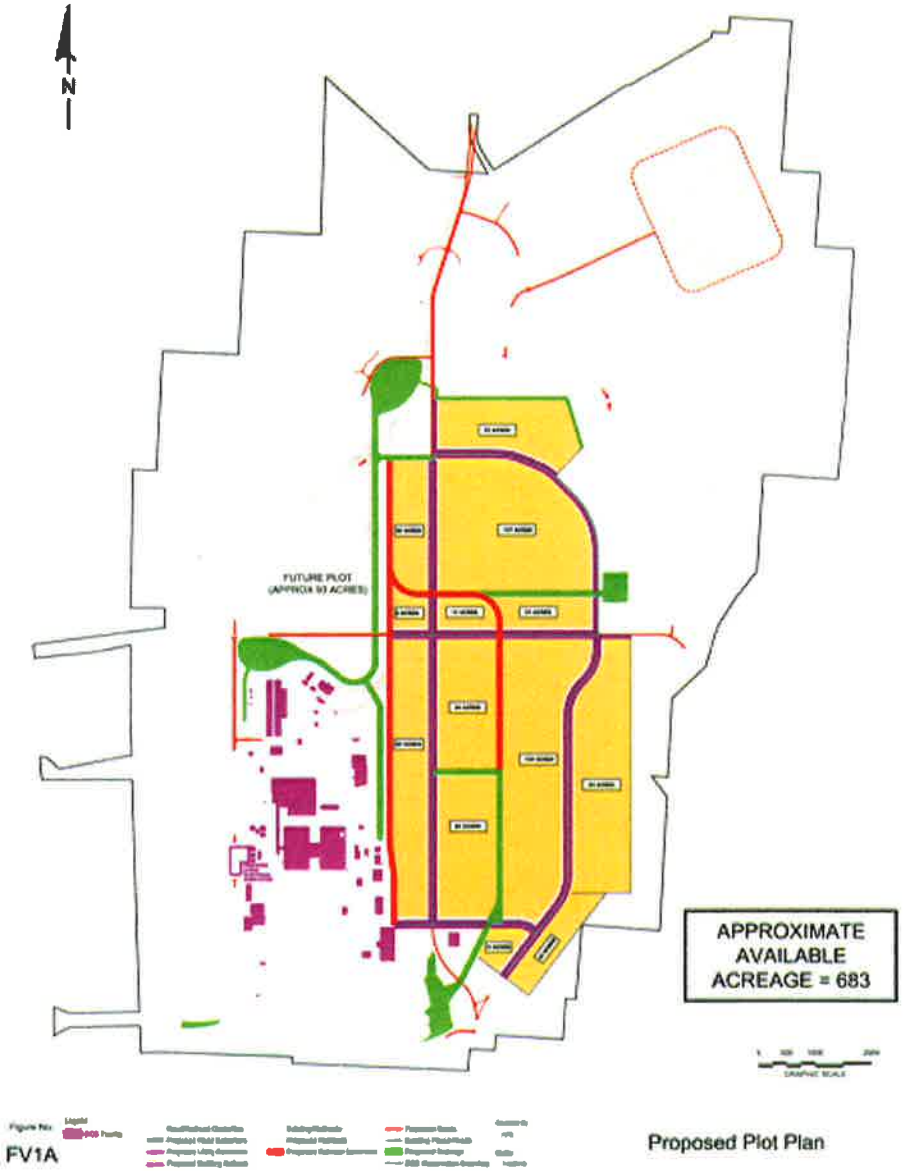


Figure No.
FV2A

Proposed Roads & Railroads

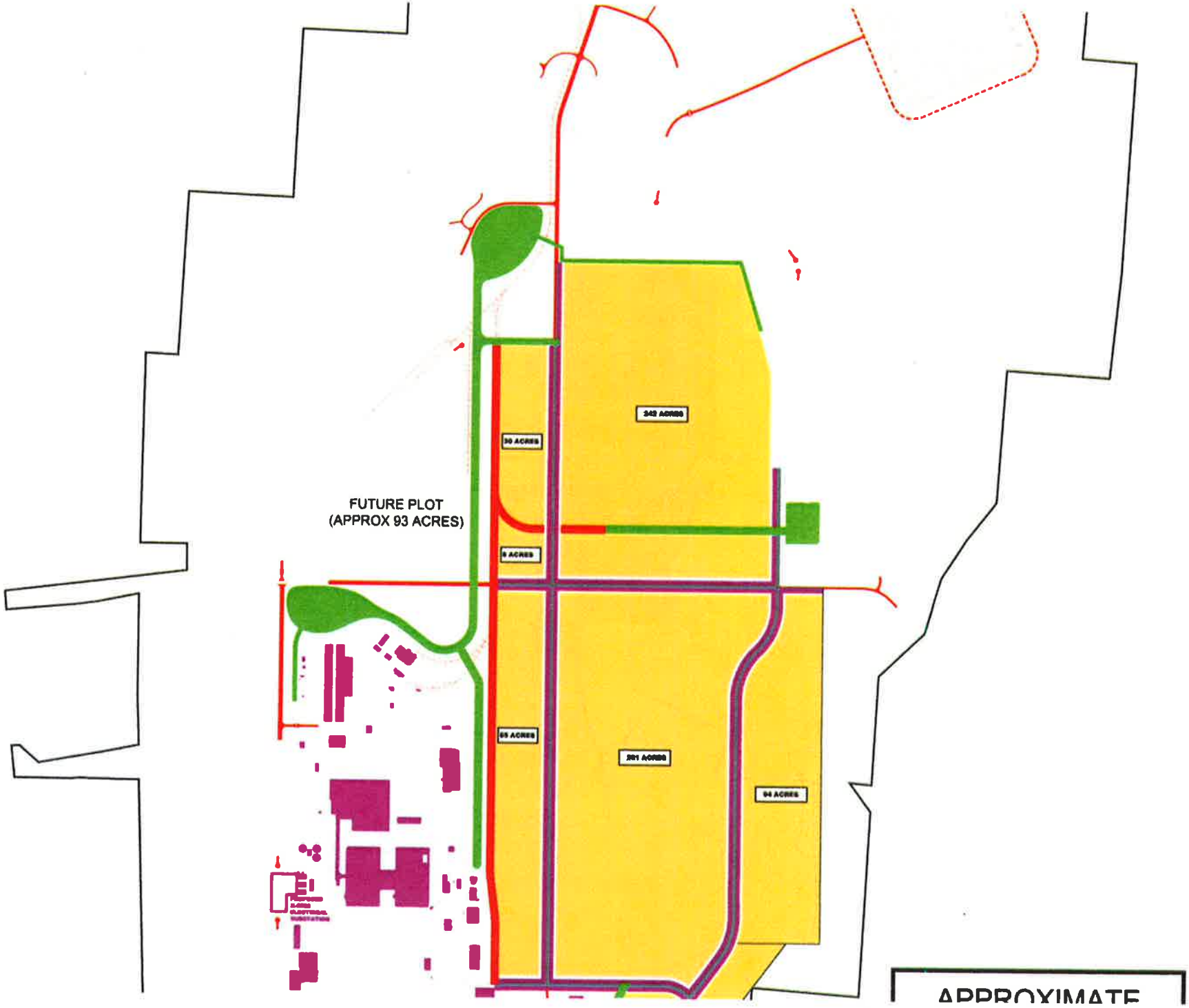
TYPICAL UTILITY LAYOUT

POSSIBLE DEVELOPMENT PLOTS

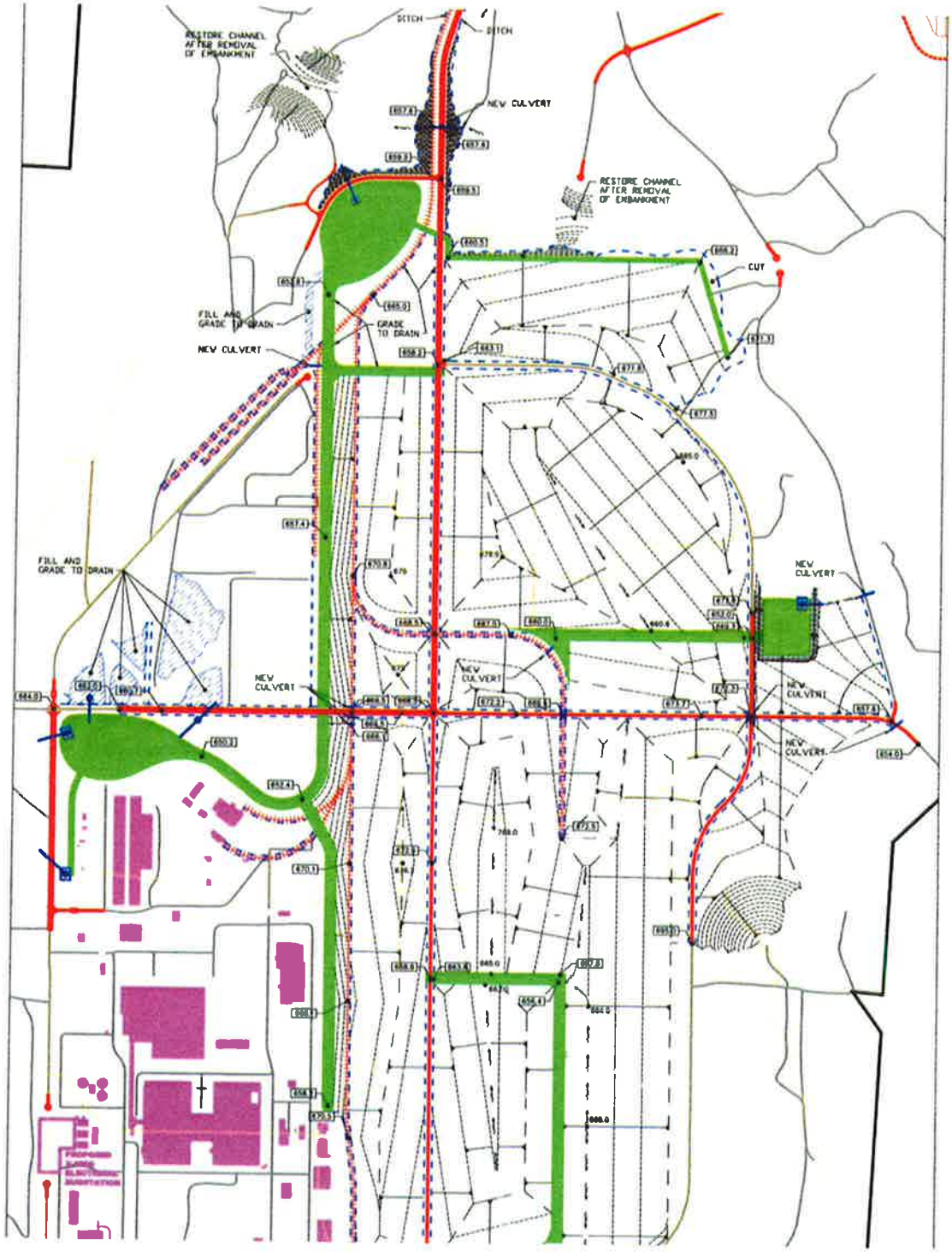


FV1A

Proposed Plot Plan


FUTURE PLOT
(APPROX 93 ACRES)
30 ACRES
242 ACRES
6 ACRES
65 ACRES
201 ACRES
94 ACRES
APPROXIMATE

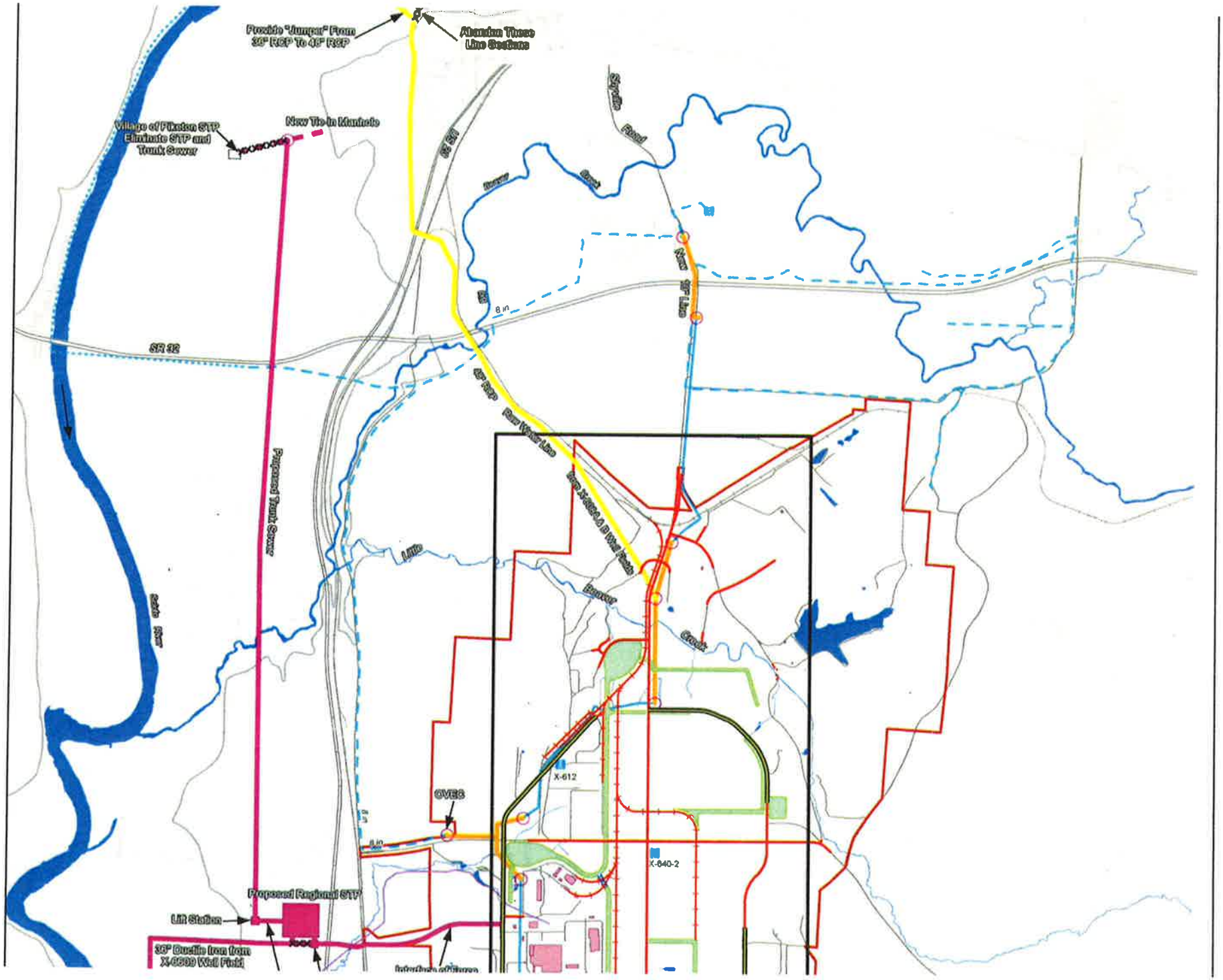
POSSIBLE GRADING PLAN



DITCH
DITCH
RESTORE CHANNEL AFTER REMOVAL OF EMBANKMENT
NEW CULVERT
RESTORE CHANNEL AFTER REMOVAL OF EMBANKMENT
CUT
FILL AND GRADE TO DRAIN
GRADE TO DRAIN
NEW CULVERT
FILL AND GRADE TO DRAIN
NEW CULVERT
NEW CULVERT
NEW CULVERT
NEW CULVERT
NEW CULVERT

WATER SUPPLY & WASTEWATER

Two of the most significant recommendations involve water supply/treatment and wastewater treatment/discharge.



Provide "Jumper" From 36" RCP To 48" RCP
Abandon These Line Sections
Village of Piketon STP Eliminate STP and Trunk Sewer
New Tie In Manhole
SR 32
Proposed Trunk Sewer
Little
Beaver
Creek
Raw Water Line
New 18" Line
8 in
X-612
X-640-2
OVEC
Proposed Regional STP
Lift Station
36" Ductile Iron from X-6609 Well Field

END RESULT

- Approximately 720acres of land for initial industrial development

- An additional ~ 100 acres of land for future development after DUF6 cylinders removed from north of Principal Access Road

END RESULT

- Developments along N/S Road provided with:
  - New & improved roadway access
  - Roads
  - Electric supply
  - Sanitary Water
  - Wastewater collection & treatment
  - High Pressure Fire Water
  - Natural Gas supply
  - Potential rail access
  - Storm water runoff and control

- Developments along east Perimeter Road setup for connection/extension of above utilities

END RESULT

- Creation of one of the largest industrial parks in Ohio