TUSCARORA TOWNSHIP

PHASE 2

DISTRICT 2

SERVICE AREA EXPANSION

PROJECT NUMBER: 22-6003

PROJECT OVERVIEW

THE PURPOSE OF THIS PROJECT IS TO PROVIDE SANITARY SEWER SYSTEM INFRATSTRUCTURE TO A TOTAL OF 202 HOMES AND TO A TOTAL OF OF 226 EDU'S. THIS SYSTEM WILL EXPAND UPON THE EXISTING WASTEWATER SYSTEM, TIE-IN TO THE EXISTING SANITARY NETWORK AND WILL INCREASE THE CAPACITY OF THE EXISTING WASTE WATER TREATMENT PLANT.

PLAN INDEX

DWG NO.	DESCRIPTION
C100	TITLE SHEET
C200	GENERAL NOTES & TYPICALS
C300	PLAN & PROFILE INDEX
C301	PLAN & PROFILE (STA. 600+00 TO 607+00)
C302	PLAN & PROFILE (STA. 607+00 TO 614+35)
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C304	PLAN & PROFILE (STA. 709+00 TO 717+45)
C305	PLAN & PROFILE (STA. 720+00 TO 726+50)
C306	PLAN & PROFILE (STA. 726+50 TO 735+25)
C307	PLAN & PROFILE (STA. 800+00 TO 810+00)
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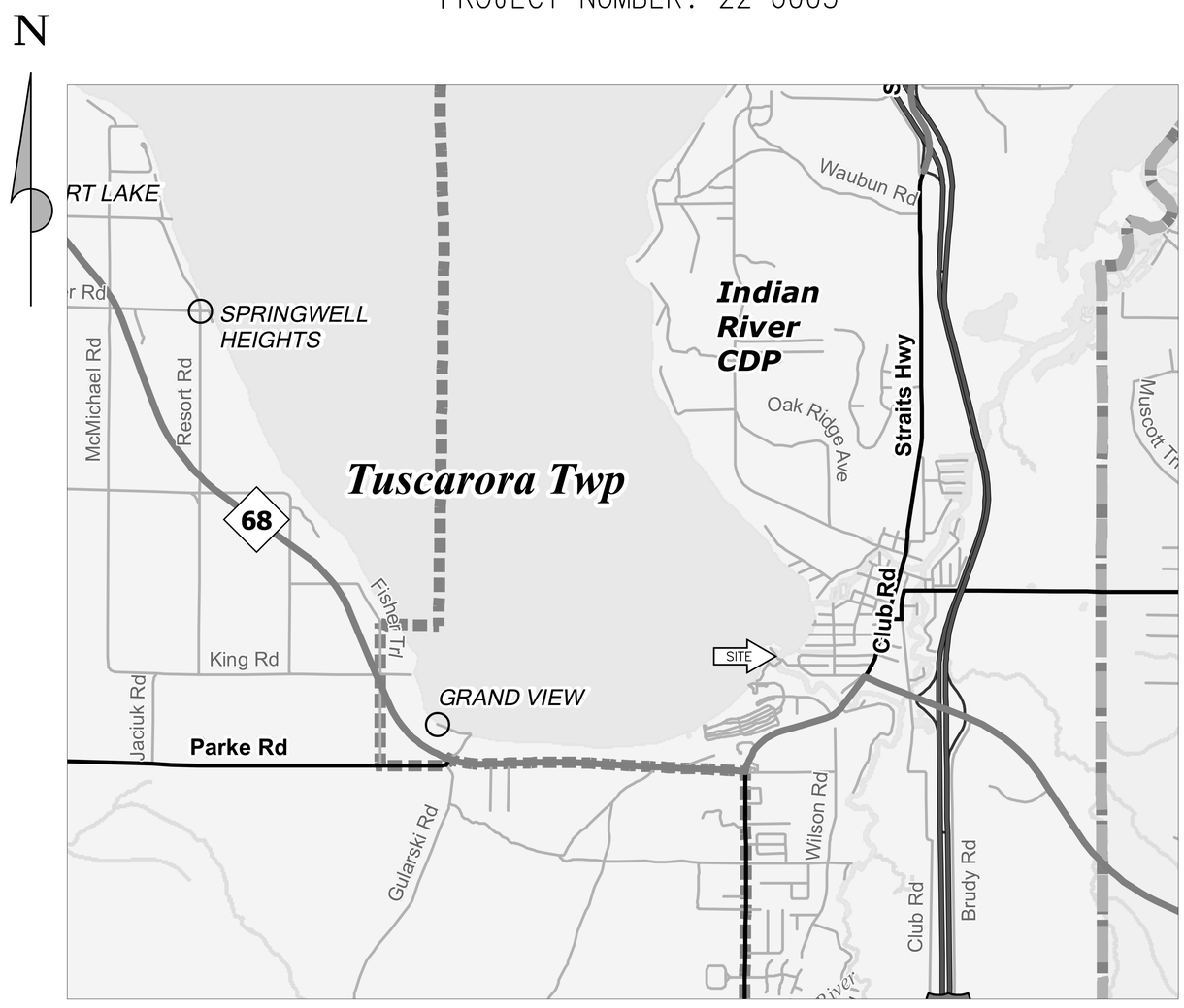
C310	PLAN & PROFILE (STA. 844+00 TO 852+30)
C311	PLAN & PROFILE (STA. 900+00 TO 906+00)
C312	PLAN & PROFILE (STA. 906+00 TO 912+15)
C313	PLAN & PROFILE (STA. 836+00 TO 844+00)
C314	PLAN & PROFILE (STA. 830+00 TO 836+00)
C315	PLAN & PROFILE (STA. 860+00 TO 868+15)
C316	PLAN & PROFILE (STA. 870+00 TO 876+10)
C400	DETAILS



LOCATION MAP
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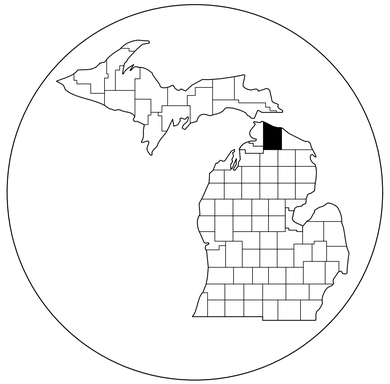

COUNTY KEY

TITLE SHEET LEGEND

PROPOSED PROJECT ----------

EXISTING ROADS
- CITY STREET ----------
- STATE ROUTES ----------
- FEDERAL ROUTES ----------

CITY, VILLAGE LIMITS ----------
TOWNSHIP LIMITS ----------
COUNTY LINE ----------

811
Know what's **below.**
Call before you dig.

UNIVERSITY OF MICHIGAN BIOLOGICAL STATION

CONTRACT NUMBER 22-5739

CONTRACT FOR: TUSCARORA TOWNSHIP DISTRICT 2 SANITARY EXPANSION

MARK	DATE	DESCRIPTION
0		

SEAL

Performance Engineers, Inc.
Civil / Structural Engineering
406 Petoskey Avenue
Charlevoix, Michigan 49720
Phone: (231) 547-2121
Fax: (231) 547-0084
www.performanceeng.com

DATE: -
CORRECTED BY: -
DATE:
DATE: 2-15-22
CHECKED BY: PEI
DRAWN BY: C.RASCH
FILE NAME: 1-5739TITL.DWG

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WATER AND SEWER SYMBOLS

- CB — PROPOSED CATCH BASIN
- CB — EXISTING CATCH BASIN
- ST — PROPOSED STORM MANHOLE
- ST — EXISTING STORM MANHOLE
- S — PROPOSED SANITARY MANHOLE
- S — EXISTING SANITARY MANHOLE
- CO — PROPOSED SANITARY CLEANOUT
- CO — EXISTING SANITARY CLEANOUT
- W — PROPOSED WATER MANHOLE
- W — EXISTING WATER MANHOLE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED WATER VALVE AND BOX
- EXISTING WATER VALVE
- PROPOSED WATER SHUTOFF
- EXISTING WATER SHUTOFF
- WW — PROPOSED WATER WELL
- W — EXISTING WATER WELL

UTILITIES SYMBOLS

- T — EXISTING TELEPHONE MANHOLE
- TV — EXISTING CABLE TV MANHOLE
- G — EXISTING NATURAL GAS MANHOLE
- G — EXISTING GAS METER
- GV — EXISTING GAS VALVE
- E — EXISTING ELECTRICAL MANHOLE
- E — PROP. PRIMARY ELECT. HAND HOLE
- E — EXIST. PRIMARY ELECT. HAND HOLE
- H — PROP. SECONDARY ELECT. HAND HOLE
- H — EXIST. SECONDARY ELECT. HAND HOLE
- TRANS — EXISTING TRANSFORMER
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- PROPOSED LIGHT POST
- EXISTING LIGHT POST
- PROPOSED GUY WIRE
- EXISTING GUY WIRE

LANDSCAPING SYMBOLS

- PROPOSED TREE
- EXISTING TREE
- PROPOSED CONIFER TREE
- EXISTING CONIFER TREE
- PROPOSED SHRUB
- EXISTING SHRUB

PROPERTY SYMBOLS

- MONUMENT BOX
- MONUMENT
- NEW PROPERTY CORNER
- EXISTING PROPERTY CORNER
- BENCH MARK
- NAIL SET

MISCELLANEOUS SYMBOLS

- SB — SOIL BORING INDICATOR
- ADJ — ADJUST STRUCTURE
- ADJ-FH — ADJUST FIRE HYDRANT
- ADJ-BO — ADJUST BY OTHERS
- REL-BO — RELOCATE BY OTHERS
- DRIVEWAY TYPE
- SIDEWALK RAMP TYPE
- SALV — SALVAGE
- PROPOSED BUILDING
- EXISTING BUILDING
- A — ABANDON
- B — BULKHEAD
- C — CLEARING
- R — REMOVAL
- S — SAVE

PLAN SHEET PATTERNS

- CONCRETE PAVEMENT/DRIVE APPROACH
- REMOVING PAVEMENT (HMA)
- REMOVING (CONCRETE) PAVEMENT/DRIVEWAY/ SIDEWALK
- REMOVING CURB, GUTTER AND CURB & GUTTER

ROAD SURFACE PATTERNS

- ASPHALT
- GRAVEL
- SEASONAL

UNDERGROUND UTILITY LINESTYLES

- ST — EXISTING STORM SEWER
- ST — PROPOSED STORM SEWER
- SAN — PROPOSED SANITARY SEWER
- SAN — EXISTING SANITARY SEWER
- W — PROPOSED WATER LINE
- W — EXISTING WATER LINE
- G — PROPOSED NATURAL GAS LINE
- G — EXISTING NATURAL GAS LINE
- U/E — PROPOSED ELECTRIC
- U/E — EXISTING ELECTRIC
- U/T — PROPOSED TELEPHONE
- U/T — EXISTING TELEPHONE
- U/CATV — PROPOSED CABLE TV
- U/CATV — EXISTING CABLE TV
- F/O — PROPOSED FIBER OPTIC
- F/O — EXISTING FIBER OPTIC

ABOVE GROUND UTILITY LINESTYLES

- OHE — PROPOSED ELECTRIC
- OHE — EXISTING ELECTRIC
- OHT — PROPOSED TELEPHONE
- OHT — EXISTING TELEPHONE
- CATV — PROPOSED CABLE TV
- CATV — EXISTING CABLE TV

PROPERTY/EASEMENT LINESTYLES

- PL — PROPERTY LINE
- R/W — RIGHT OF WAY
- SETBACK LINE
- X — PROPOSED FENCE
- X — EXISTING FENCE
- PROPOSED UNIT LINE
- EXISTING UNIT LINE

TOPO LINESTYLES

- 600 — PROPOSED MAJOR CONTOUR
- 599 — PROPOSED MINOR CONTOUR
- 600 — EXISTING MAJOR CONTOUR
- 599 — EXISTING MINOR CONTOUR
- PROPOSED TREE LINE
- EXISTING TREE LINE
- PROPOSED SWALE
- EXISTING SWALE

ABBREVIATIONS

ABS	-	ACRYLONITRILE BUTADIENE STYRENE	HYD	-	HYDRANT	SP EL	-	SPOT ELEVATION
ADA	-	AMERICANS WITH DISABILITIES ACT	INV	-	INVERT ELEVATION	SSW	-	SANITARY SEWER
ALT	-	ALTERNATE	IRR	-	IRRIGATION WATER	STM	-	STORM SEWER
ASPH	-	ASPHALT	LCY	-	LOOSE CUBIC YARD	ST	-	STREET
BC	-	BACK OF CURB	LP	-	LIGHT POLE	STA	-	STATION
BLDG	-	BUILDING	LFT	-	LINEAR FOOT	STD	-	STANDARD
BM	-	BENCHMARK	LS	-	LUMP SUM	SW	-	SIDEWALK
CB	-	CATCH BASIN	MB	-	MAIL BOX	TBM	-	TEMPORARY BENCHMARK
CIP	-	CAST IRON PIPE	MH	-	MANHOLE	TD	-	TRENCH DRAIN
CL	-	CENTER LINE	N	-	NORTH	TEL	-	TELEPHONE
CMP	-	CORRUGATED METAL PIPE	NTS	-	NOT TO SCALE	TOC	-	TOP OF CONCRETE
CO	-	CLEANOUT	PC	-	POINT OF CURVE	TC	-	TOP OF CURB
CONC	-	CONCRETE	PED	-	PEDESTAL	T/FTG	-	TOP OF CONCRETE FOOTING
CFT	-	CUBIC FEET	PERF	-	PERFORATED	T/WALL	-	TOP OF CONCRETE WALL
CYD	-	CUBIC YARD	PL	-	PROPERTY LINE	TP	-	TELEPHONE POLE
DIP	-	DUCTILE IRON PIPE	PP	-	POWER POLE	TYP	-	TYPICAL
E	-	EAST	PROP	-	PROPOSED	UGND	-	UNDERGROUND
EL	-	ELEVATION	PVC	-	POLYVINYL CHLORIDE (PLASTIC)	UP	-	UTILITY POLE
FFE	-	FINISH FLOOR ELEVATION	R	-	RADIUS	UTIL	-	UTILITY
FH	-	FIRE HYDRANT	RCP	-	REINFORCED CONCRETE PIPE	VAR	-	VARIES
FC	-	FACE OF CURB	RD	-	ROAD	VC	-	VERTICAL CURVE
G	-	NATURAL GAS	REQD	-	REQUIRED	VCP	-	VITRIFIED CLAY PIPE
GEN	-	GENERATOR	ROW	-	RIGHT OF WAY	VEH	-	VEHICLE
GIP	-	GALVANIZED IRON PIPE	S	-	SOUTH	VOL	-	VOLUME
HC	-	HANDICAP	SALV	-	SALVAGE	W/O	-	WITH OUT
HDPE	-	HIGH DENSITY POLYETHYLENE	SAN	-	SANITARY	W	-	WEST
HDWL	-	HEADWALL	SB-xx	-	SOIL BORING-XX (E.G., SB-01)	WM	-	WATER MAIN
HH	-	HAND HOLE	SCHD	-	SCHEDULE (PIPE)	YD	-	YARD DRAIN
HP	-	HORSEPOWER	SFT	-	SQUARE FOOT			

GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM.
2. SPECIAL CARE SHALL BE TAKEN IN EXCAVATING IN THE PROXIMITY OF ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL SECURE ASSISTANCE FROM THE APPROPRIATE UTILITY COMPANY IN LOCATING ITS LINES. THE CONTRACTOR SHALL ALSO: PROVIDE SUPPORT FOR ANY UTILITY WITHIN THE EXCAVATION, PROVIDE PROPER COMPACTION UNDER ANY UNDERMINED UTILITY STRUCTURE AND, IF NECESSARY, INSTALL TEMPORARY SHEETING OR USE A TRENCH BOX TO MINIMIZE THE EXCAVATION. THE CONTRACTOR SHALL PROTECT AND SAVE HARMLESS FROM DAMAGE ALL UTILITIES, WHETHER PRIVATELY OR PUBLICLY OWNED, ABOVE OR BELOW GROUND SURFACE, WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER.
3. THE LOCATION OF EXISTING PUBLIC UTILITIES AND UNDERGROUND STRUCTURES SUCH AS PIPE LINES, ELECTRIC CONDUITS, SEWER AND WATER LINES, OF RECORD ARE SHOWN ON THE PLANS. THE INFORMATION IS BELIEVED TO BE REASONABLY CORRECT AND COMPLETE. HOWEVER, NEITHER THE CORRECTNESS NOR THE COMPLETENESS OF SUCH INFORMATION IS GUARANTEED. PRIOR TO THE START OF ANY OPERATIONS IN THE VICINITY OF ANY UTILITIES, THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ANY UTILITIES WITH THE UTILITY PROVIDER. COST OF REPAIR FOR ANY DAMAGED UTILITY LINES THAT IS PROPERLY STAKED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS GOVERNING THE FURNISHING AND OF SAFEGUARDS, SAFETY DEVICES AND PROTECTION EQUIPMENT. THE CONTRACTOR SHALL TAKE ANY NECESSARY PRECAUTIONS TO PROTECT THE LIFE AND HEALTH OF EMPLOYEES AND THE PUBLIC IN THE PERFORMANCE OF THE WORK.
5. FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013, THE CONTRACTOR SHALL CALL 811 A MINIMUM OF THREE (3) FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS HAVE BEEN ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE "MISS DIG" ALERT SYSTEM.
6. EXISTING PROPERTY OWNERS ARE IDENTIFIED ON THE PLANS. IF A PROPERTY CORNER IRON IS DISTURBED DURING CONSTRUCTION IT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE BY A PROFESSIONAL LAND SURVEYOR.
7. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT TO ANY MAILBOXES DISTURBED DURING CONSTRUCTION AND SHALL NOT INTERFERE WITH MAIL SERVICE. ALL DISTURBED MAILBOXES SHALL BE PLACED IN THE ORIGINAL LOCATION AND AT AN ELEVATION DETERMINED BY THE POSTAL SERVICE.
8. LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.
9. CONTRACTOR SHALL RESTORE ALL LAWNS, LANDSCAPE PLANTINGS, SIDEWALKS, COMMERCIAL SIGNS, ETC., AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
10. CONTRACTOR SHALL PROVIDE ADEQUATE SUPPORT FOR UTILITY POLES AS NECESSARY. CONTRACTOR SHALL CONSULT WITH THE UTILITY COMPANY PRIOR TO ANY DISTURBANCE OF UTILITY POLE OR ANCHORING SYSTEM.

SANITARY NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CURRENT REQUIREMENTS OF MAWSA. INSTALLATION PIPING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM STANDARDS AND THE PLANS AND SUPPLEMENTAL SPECIFICATIONS PROVIDED.
2. MAWSA WILL PROVIDE THE CONTRACTOR WITH REQUIRED EGLE PERMIT FOR THE SANITARY SEWER CONSTRUCTION. CONSTRUCTION IS NOT TO BEGIN UNTIL THIS PERMIT HAS BEEN OBTAINED. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL EGLE PERMIT CONDITIONS.
3. ALL FORCE MAIN SANITARY SEWER PIPING SHALL BE HDPE DR-11 WITH TRACER WIRE INSTALLED BY DIRECTIONAL DRILLING METHODS TO MAINTAIN ALIGNMENT AND PROFILE INDICATED, WITH SURFACE MARKING PROVIDED DURING DRILLING FOR WITNESS BY ENGINEER.
4. NEW SANITARY SEWER CONSTRUCTION SHALL PROGRESS SUCH THAT THE NEW FACILITIES, ARE COMPLETE, INSPECTED, TESTED AND FULLY OPERATIONAL BEFORE CONNECTION OF ANY SERVICES.
5. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE FOR 100% CONSTRUCTION INSPECTION BY THE ENGINEER AND THEN PROVIDE FORCE MAIN PIPING TEST. PIPE SHALL BE HYDROSTATICALLY PRESSURE TESTED (AIR TESTING SHALL NOT BE ALLOWED) AND TRACER WIRE SHALL PASS A CONTINUITY TEST. ALL TESTING COSTS, ARE TO BE INCLUDED IN THE UNIT PRICE OF THOSE ITEMS MOST CLOSELY ASSOCIATED WITH THE WORK.
6. PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE FOR THE PIPE BEING INSTALLED.

SOIL EROSION AND STORM WATER CONTROL NOTES

1. THE CONTRACTOR SHALL PROVIDE TEMPORARY SOIL EROSION CONTROL MEASURES PER P.A. 451 AS AMENDED. WITH THE USE OF SILT FENCE AND OTHER TEMPORARY MEASURES, THE CONTRACTOR SHALL PROTECT THE ADJACENT AREA FROM ACCELERATED EROSION AND SEDIMENTATION FLOWS RESULTING FROM CONSTRUCTION. THE CONTRACTOR SHALL INSTALL ADDITIONAL TEMPORARY AND PERMANENT SOIL EROSION CONTROL MEASURES, IF DIRECTED BY THE ENGINEER OR SOIL EROSION CONTROL OFFICER, AT NO ADDITIONAL COST TO THE PROJECT.
2. INSTALLATION AND MAINTENANCE OF TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROVIDE THE REQUIRED PERMIT THROUGH ANTRIM COUNTY.
3. SHOULD ADDITIONAL SOIL EROSION CONTROL MEASURES BE DETERMINED TO BE NECESSARY BY EITHER THE SOIL EROSION CONTROL OFFICER OR THE ENGINEER THEY SHALL BE IN PLACE NO LATER THAN 24 HOURS OR CONSTRUCTION WILL BE HALTED UNTIL SUCH MEASURES ARE INSTALLED AND APPROVED BY EITHER THE SOIL EROSION CONTROL OFFICER OR THE ENGINEER.
4. ALL DISTURBED NON-HARD SURFACE AREAS ARE TO BE STABILIZED WITH TOPSOIL, SEEDED, FERTILIZED AND MULCHED. DISTURBED AREAS SHALL BE TOPSOILED TO A DEPTH NOT LESS THAN FOUR (4) INCHES. SLOPES BETWEEN 1 ON 3 AND 1 ON 2 SHALL BE SODDED AND STAKED OR RECEIVE SEED WITH MULCH BLANKET.
5. ALL STORM DRAINAGE PIPE SHALL BE CORRUGATED GALVANIZED STEEL PIPE, HDPE, OR APPROVED EQUAL.
6. A MINIMUM OF TWO (2) FEET OF COVER FROM FINISHED ELEVATIONS SHALL BE MAINTAINED OVER ALL STORM DRAIN PIPES.
7. ALL DRAINAGE PIPES THAT OUTLET AT GROUND SURFACE SHALL INCLUDE END SECTIONS.
8. EXISTING STORM DRAINAGE DITCHES SHALL BE REBUILT IF FILLED IN OR REMOVED DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE, AS REQUIRED. ALL DRAINAGE CULVERTS DAMAGED DURING CONSTRUCTION AND SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
9. THE CONTRACTOR SHALL REMOVE OR CAUSE TO BE REMOVED ALL SEDIMENT OR SOILS THAT HAVE BEEN DROPPED, WASHED ONTO, OR TRACKED OUT ONTO PUBLIC RIGHT-OF-WAY OR PRIVATE ROADS AT THE END OF EACH WORKING DAY OR AFTER EACH RAIN EVENT ON NON-WORK DAYS.
10. ALL REMOVED TOPSOIL WILL BE STOCKPILED WITHIN THE PROJECT AREA. IF ADDITIONAL TOPSOIL IS AVAILABLE AFTER TOPSOILING THE CONSTRUCTION AREA, IT WILL BE STOCKPILED WITHIN 1000 FEET OF THE CONSTRUCTION AREA AT A LOCATION DIRECTED BY THE OWNER OR ENGINEER.
11. THE CONTRACTOR SHALL REPAIR ALL WASHOUTS AND EROSION DURING THE GUARANTEE PERIOD OF ONE (1) YEAR AT NO ADDITIONAL COST TO THE OWNER.

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CJR							

DESIGNER: Performance Engineers, Inc.
406 Petoskey Avenue
Charlevoix, Michigan 49720
Phone: (231) 547-2121
Fax: (231) 547-0084
www.performanceeng.com

OWNER: TUSCARORA TOWNSHIP

SCALE:

PROJECT: TUSCARORA TOWNSHIP
SANITARY SEWER EXPANSION PHASE 2
SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET: LEGEND & GENERAL NOTES

JOB NO. 22-6003

SHEET NO. C200

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DESIGNER

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Phone: (231) 547-2121
Fax: (231) 547-0084
www.performanceeng.com

OWNER

TUSCARORA TOWNSHIP

SCALE

0 200' 400'
GRAPHIC SCALE

PROJECT

TUSCARORA TOWNSHIP
SANITARY SEWER EXPANSION PHASE 2
SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET

PLAN & PROFILE SHEET INDEX

JOB NO. 22-6003

SHEET NO. C300

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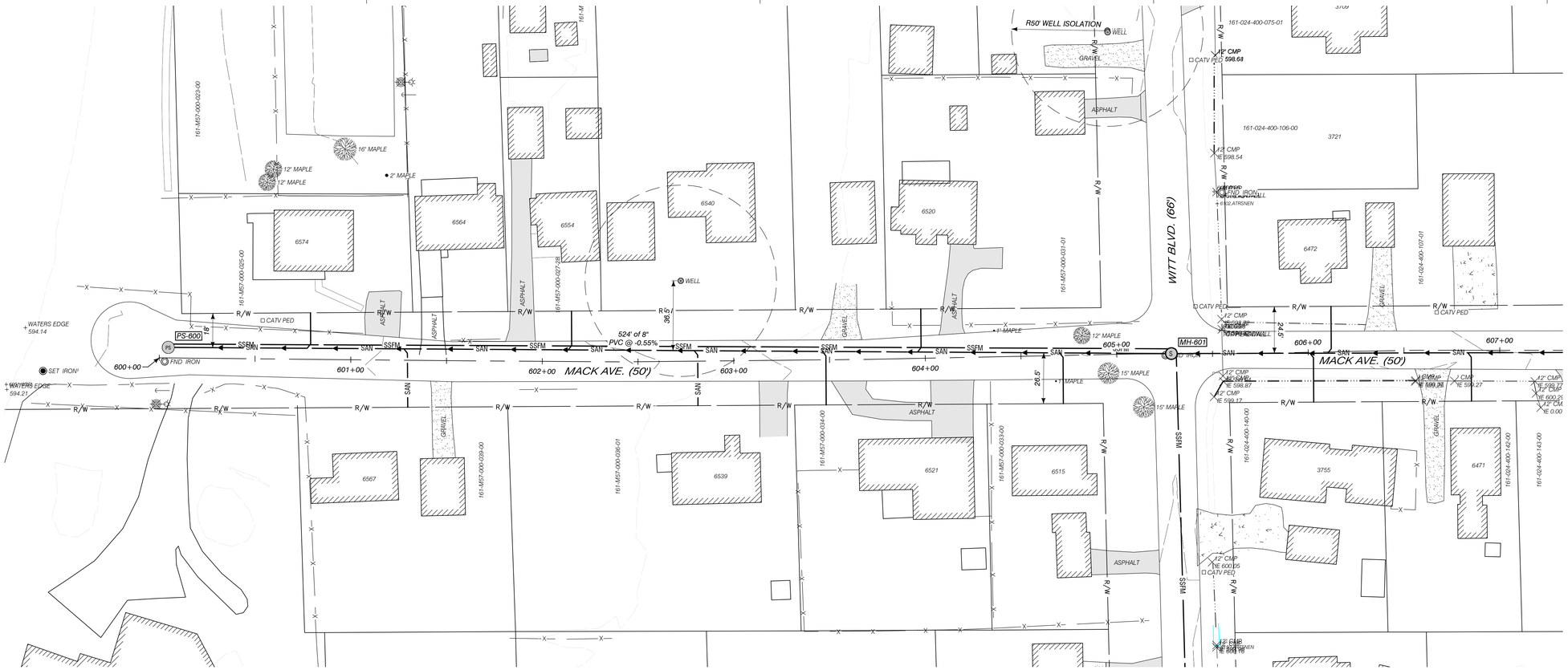
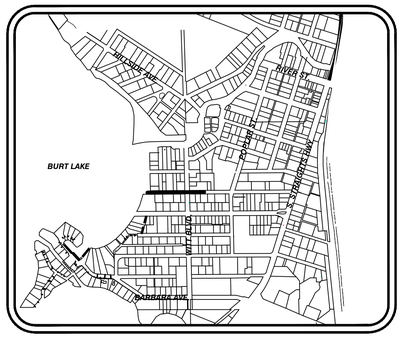


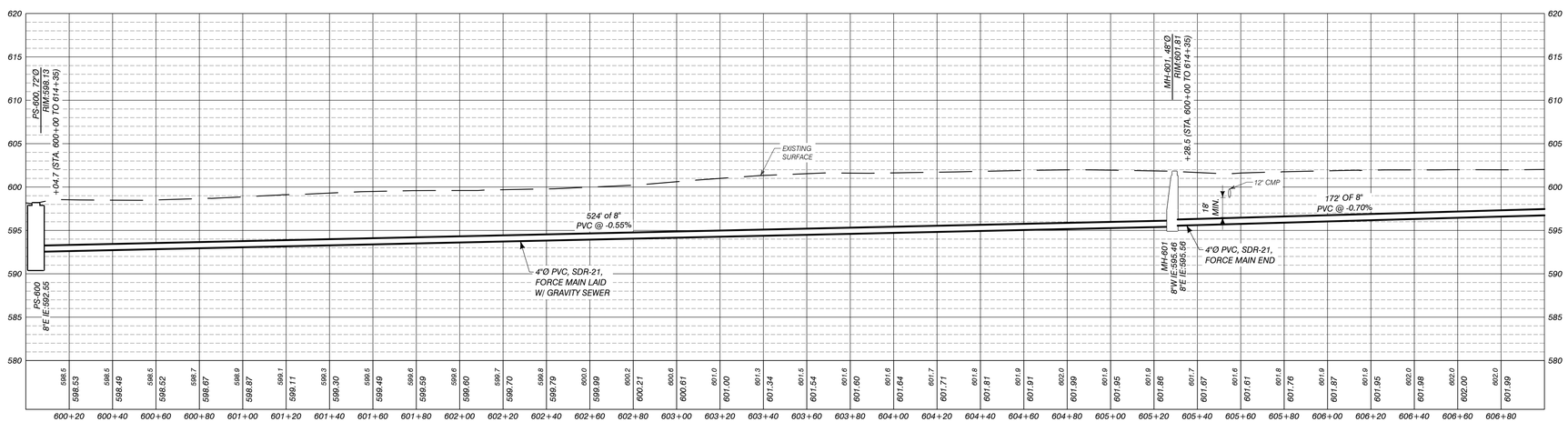


LOCATION MAP
1" = 1000'

SAN. SERV. QUANTITIES THIS SHEET				
TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-

NORTH

SANITARY PROFILE STA. 600+00 TO 607+00
1"=30'



STA. 600+00 TO 607+00
HORIZ: 1"=30, VERT: 1"=7.5

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CJR							

DESIGNER: Performance Engineers, Inc.
406 Petoskey Avenue
Charlevoix, Michigan 49720
Phone: (231) 547-2121
Fax: (231) 547-0084
www.performanceeng.com

OWNER: TUSCARORA TOWNSHIP

SCALE: 0 30' 60' GRAPHIC SCALE

PROJECT: TUSCARORA TOWNSHIP
SANITARY SEWER EXPANSION PHASE 2
SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET: PLAN & PROFILE
STA. 600+00 TO 607+00

JOB NO. 22-6003
SHEET NO. C301

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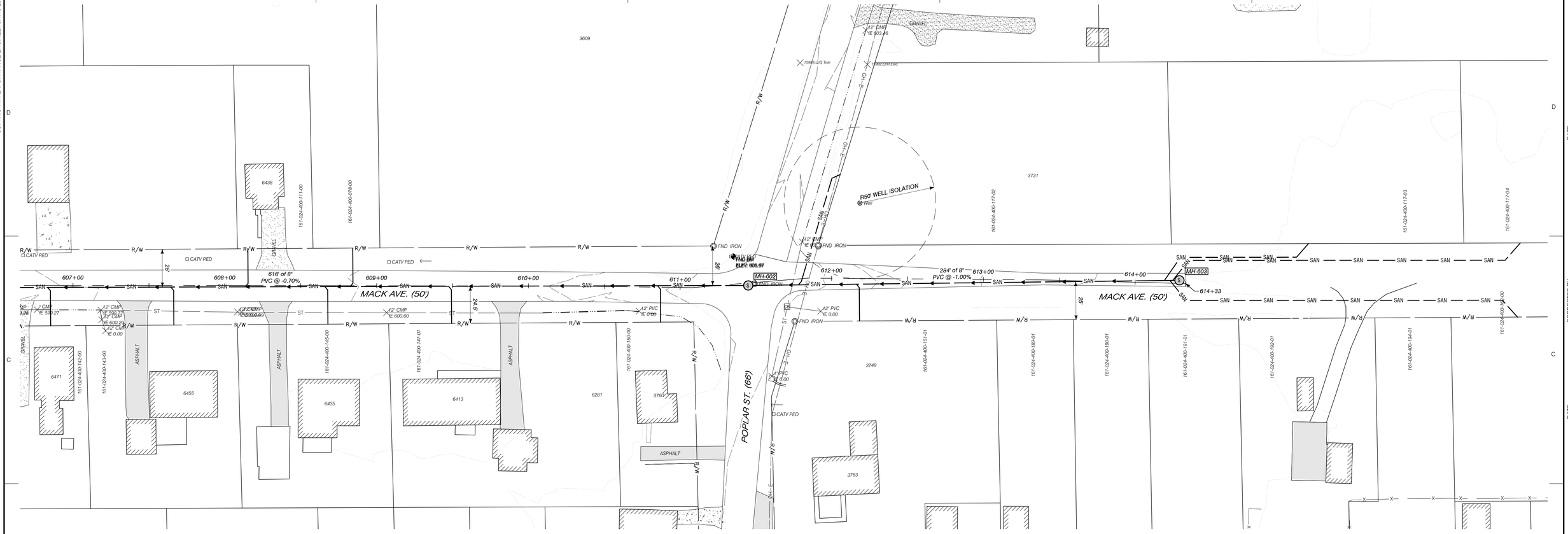
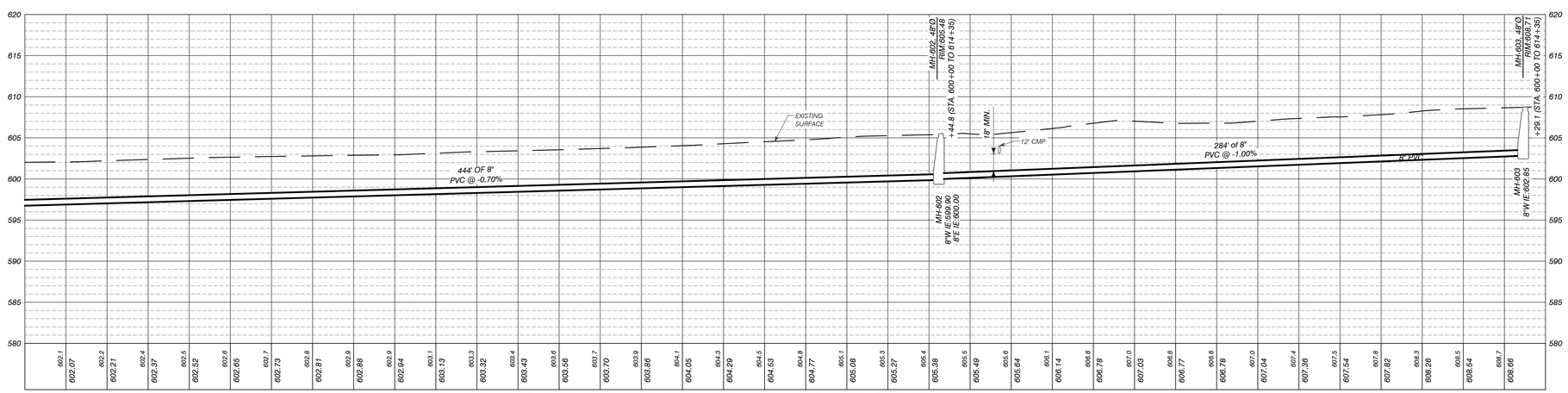


NORTH

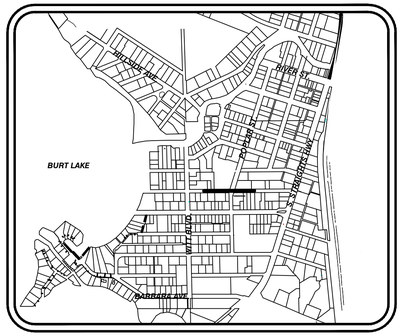
SANITARY PROFILE STA. 607+00 TO 614+35

1"=30'



STA. 607+00 TO 614+35

HORIZ: 1"=30, VERT: 1"=7.5



NORTH

LOCATION MAP

1" = 1000'

SAN. SERV. QUANTITIES THIS SHEET

TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
CJR							

DESIGNER: Performance Engineers, Inc. — 406 Petoskey Avenue, Charlevoix, Michigan 49720, Phone: (231) 547-2121, Fax: (231) 547-0084, www.performanceeng.com

OWNER: TUSCARORA TOWNSHIP

SCALE: 0 30' 60' GRAPHIC SCALE

PROJECT: TUSCARORA TOWNSHIP — SANITARY SEWER EXPANSION PHASE 2 — SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET: PLAN & PROFILE — STA. 607+00 TO 614+35

JOB NO. 22-6003

SHEET NO. C302

C:\USERS\CARLJRASCH\PERFORMANCE ENGINEERS\PERFORMANCE ENGINEERS - PROJECTS\6003\DRAWINGS\C302_6003 PLAN.DWG - C302 - PLOTTED 2/3/2023 2:22 PM BY CARL J. RASCH

FILE NAME: C302_6003 PLAN.DWG — DRAWN BY: - — CHECKED BY: - — CORRECTED BY: - — DATE: - — DATE: - — DATE: -

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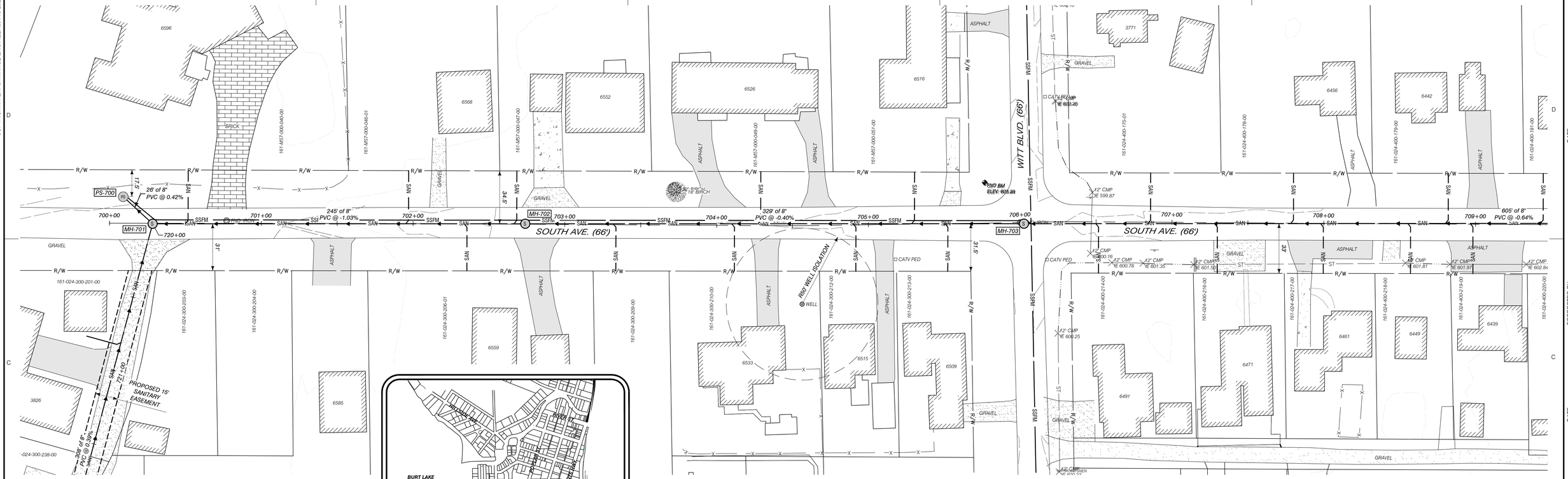
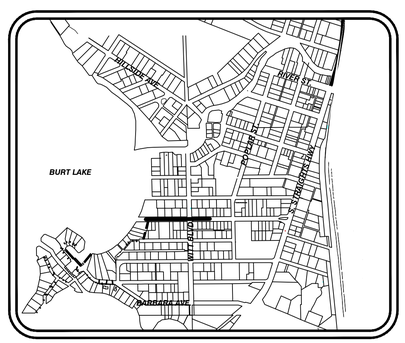


SAN. SERV. QUANTITIES THIS SHEET				
TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-

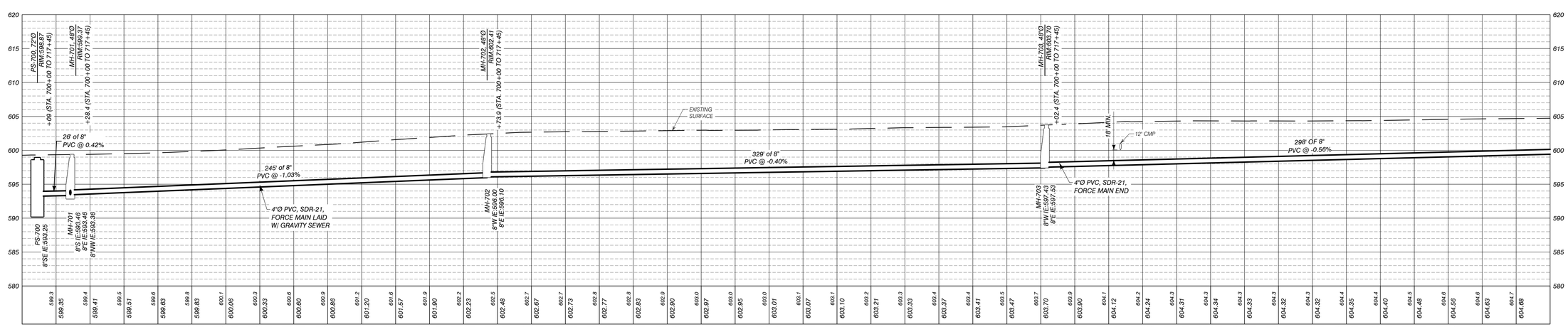


LOCATION MAP
1" = 1000'

NORTH

SANITARY PROFILE STA. 700+00 TO 709+00
1"=30'

SAN. SERV. QUANTITIES THIS SHEET				
TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-



STA. 700+00 TO 709+00
HORIZ: 1"=30, VERT: 1"=7.5

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
CJR							

DESIGNER
Performance Engineers, Inc.
406 Petoskey Avenue
Charlevoix, Michigan 49720
Phone: (231) 547-2121
Fax: (231) 547-0084
www.performanceeng.com

OWNER
TUSCARORA TOWNSHIP

SCALE
0 30' 60'
GRAPHIC SCALE

PROJECT
TUSCARORA TOWNSHIP
SANITARY SEWER EXPANSION PHASE 2
SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET
PLAN & PROFILE
STA. 700+00 TO 709+00

JOB NO. 22-6003
SHEET NO. C303

C:\USERS\CARLJRASCH\PERFORMANCE ENGINEERS\PERFORMANCE ENGINEERS - PROJECTS\6003\DRAWINGS\C303_6003 PLAN DWG - C303 - PLOTTED 2/3/2023 2:23 PM BY CARL J. RASCH

FILE NAME: C303_6003 PLAN.DWG
DRAWN BY: -
CORRECTED BY: -
CHECKED BY: -
DATE: -

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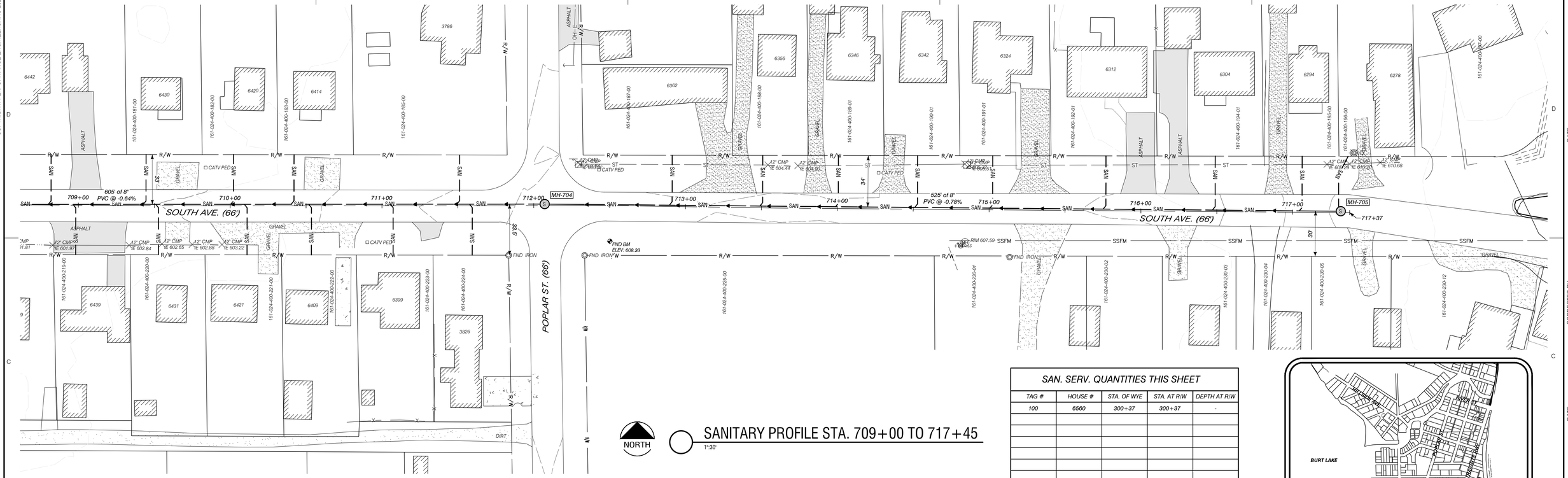


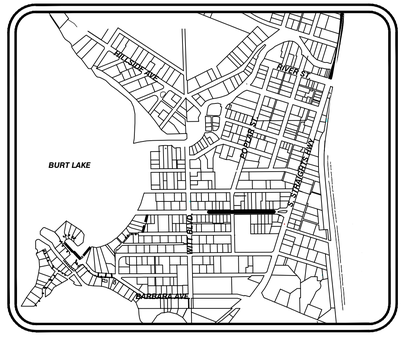
NORTH

SANITARY PROFILE STA. 709+00 TO 717+45

1"=30'

SAN. SERV. QUANTITIES THIS SHEET

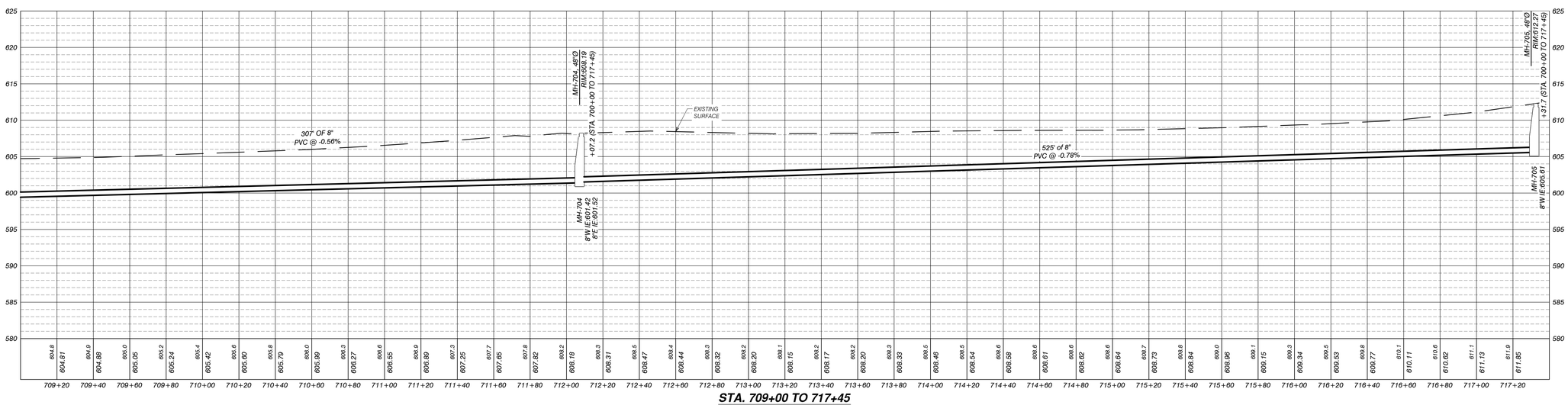
TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-



NORTH

LOCATION MAP

1" = 1000'



STA. 709+00 TO 717+45

HORIZ: 1"=30, VERT: 1"=7.5

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
CJR							

DESIGNER: Performance Engineers, Inc. — 406 Petoskey Avenue, Charlevoix, Michigan 49720, Phone: (231) 547-2121, Fax: (231) 547-0084, www.performanceeng.com

OWNER: TUSCARORA TOWNSHIP

SCALE: 0 30' 60' GRAPHIC SCALE

PROJECT: TUSCARORA TOWNSHIP — SANITARY SEWER EXPANSION PHASE 2 — SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET: PLAN & PROFILE — STA. 709+00 TO 717+45

JOB NO. 22-6003

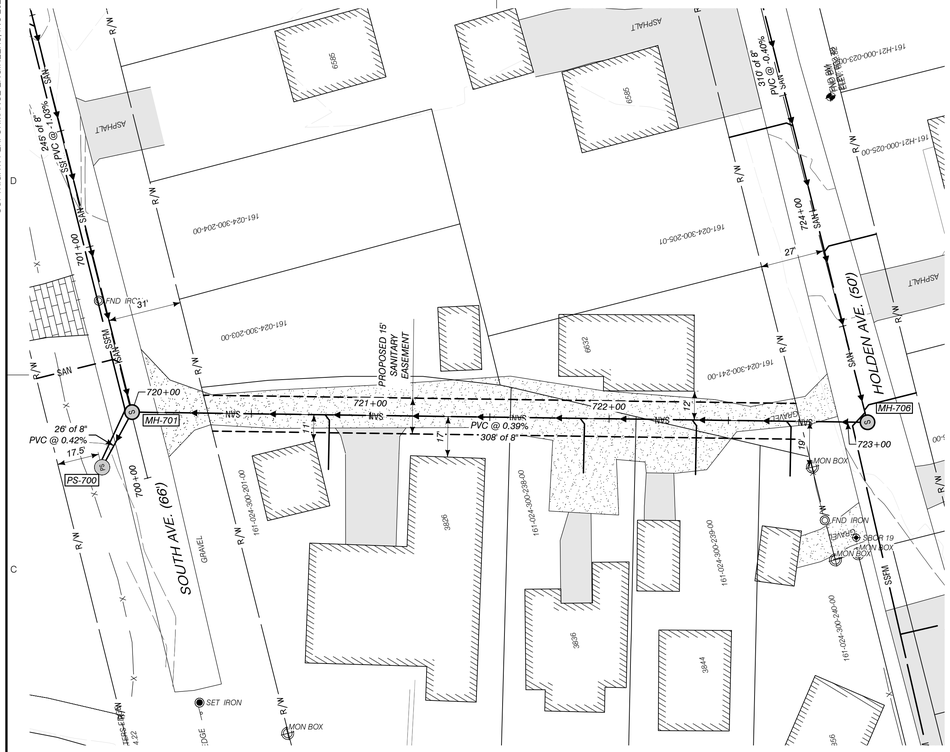
SHEET NO. C304

C:\USERS\CARLJRASCH\PERFORMANCE ENGINEERS\PERFORMANCE ENGINEERS - PROJECTS\6003\DRAWINGS\C304_6003 PLAN.DWG - C304 - PLOTTED 2/3/2023 2:23 PM BY CARL J. RASCH

FILE NAME: C304_6003 PLAN.DWG

DRAWN BY: - CORRECTED BY: - CHECKED BY: - DATE: - DATE: -

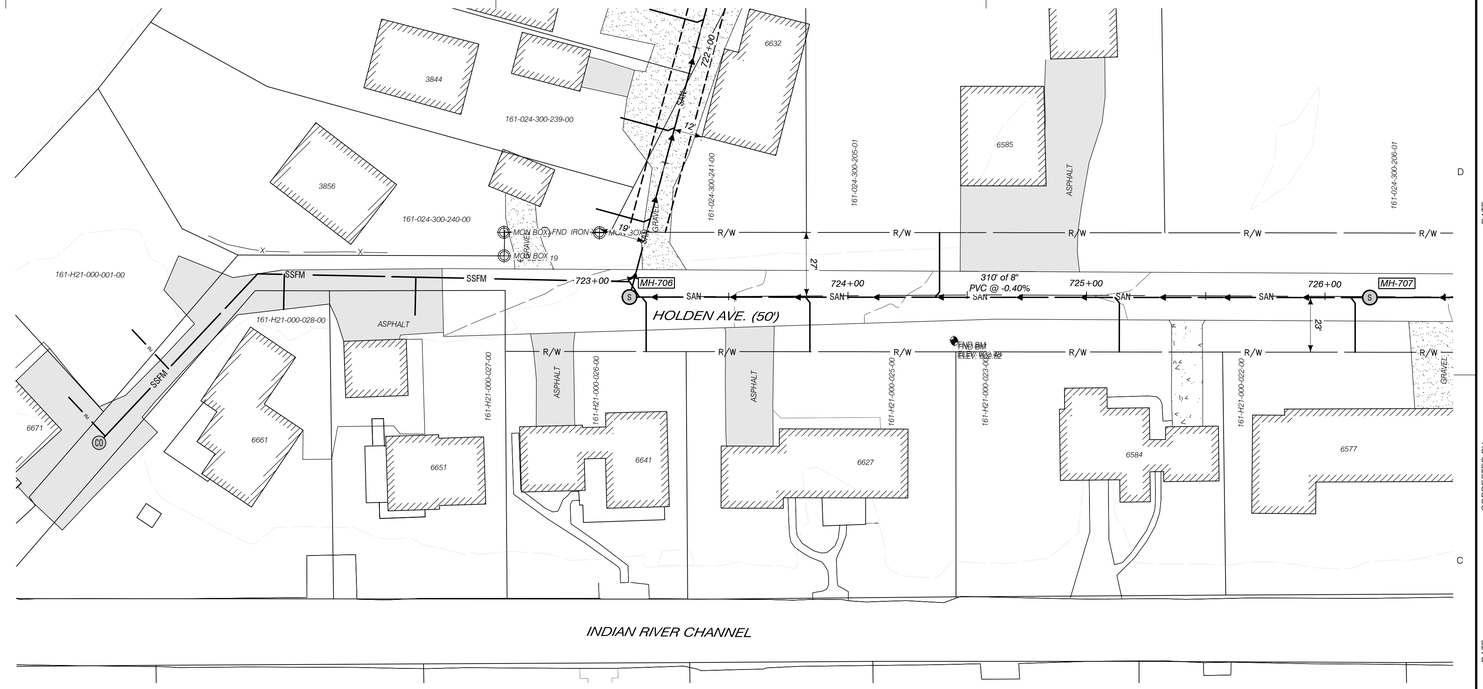
COPYRIGHT: PERFORMANCE ENGINEERS, INC.2022



NORTH

SANITARY PROFILE STA. 720+00 TO 723+25

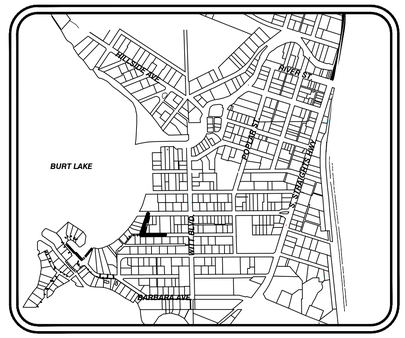
1"=30'



NORTH

SANITARY PROFILE STA. 723+00 TO 726+50

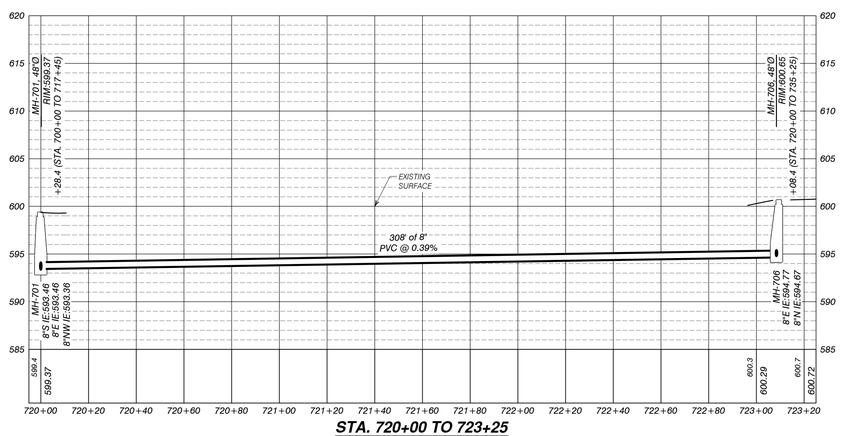
1"=30'



NORTH

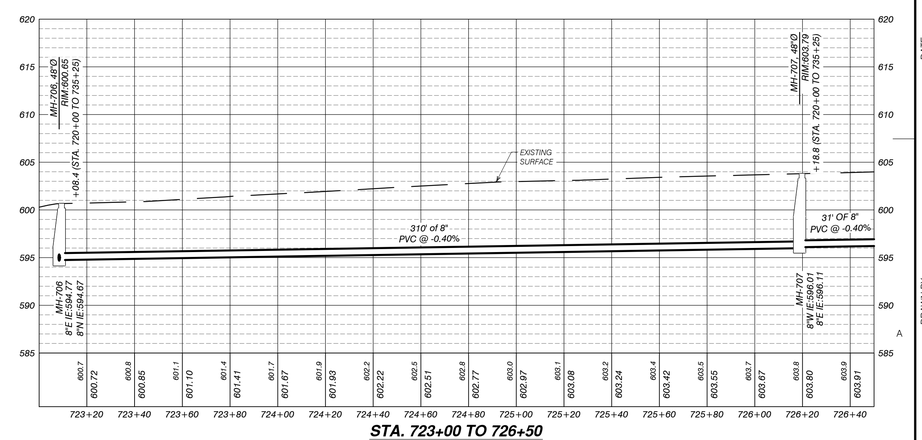
LOCATION MAP

1" = 1000'



STA. 720+00 TO 723+25

HORIZ: 1"=30, VERT: 1"=7.5



STA. 723+00 TO 726+50

HORIZ: 1"=30, VERT: 1"=7.5

SAN. SERV. QUANTITIES THIS SHEET

TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
CJR							

DESIGNER: Performance Engineers, Inc. — 406 Petoskey Avenue, Charlevoix, Michigan 49720, Phone: (231) 547-2121, Fax: (231) 547-0084, www.performanceeng.com

OWNER: TUSCARORA TOWNSHIP

SCALE: 0 30' 60' GRAPHIC SCALE

PROJECT: TUSCARORA TOWNSHIP — SANITARY SEWER EXPANSION PHASE 2 — SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET: PLAN & PROFILE — STA. 720+00 TO 723+35 — STA. 723+00 TO 726+50

JOB NO. 22-5797

SHEET NO. C305A

DATE: - CHECKED BY: - DRAWN BY: - FILE NAME: C305_6003 PLAN A.DWG

C:\USERS\CARLJRASCH\PERFORMANCE ENGINEERS\PERFORMANCE ENGINEERS - PROJECTS\6003\DRAWINGS\C305_6003 PLAN A.DWG - C305A - PLOTTED 2/3/2023 2:24 PM BY CARL J. RASCH

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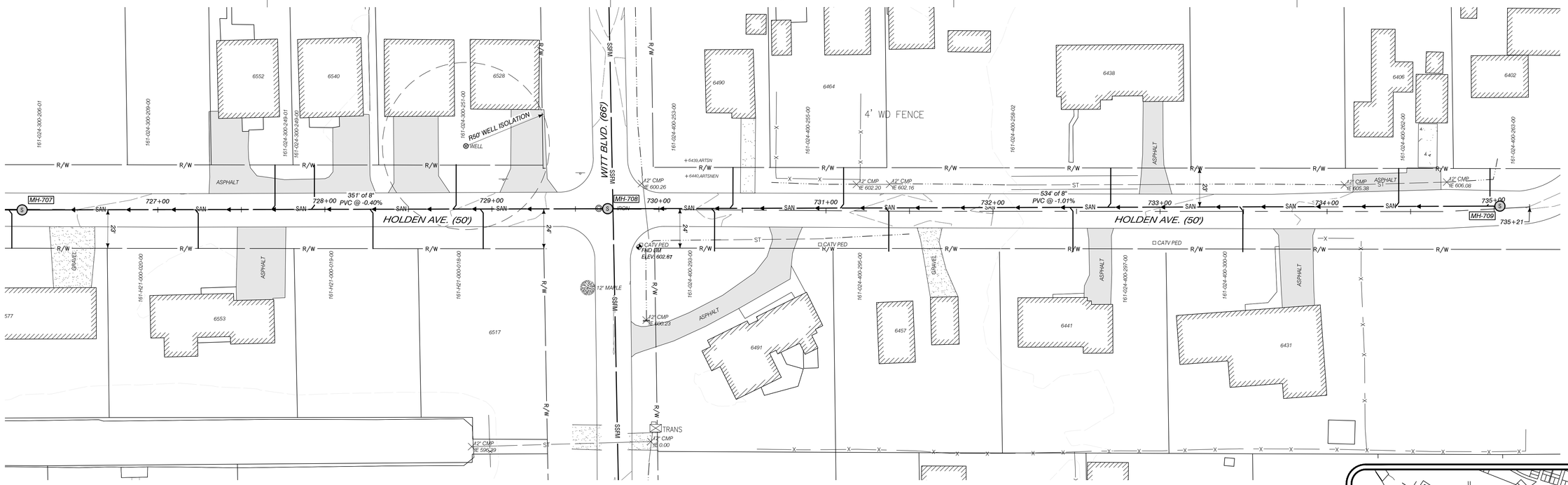


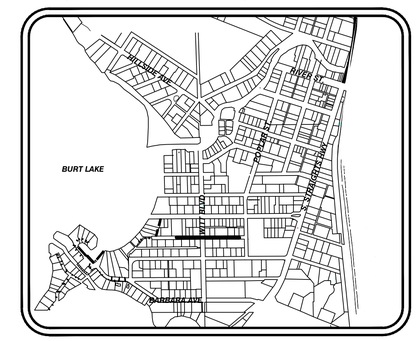
NORTH

SANITARY PROFILE STA. 726+50 TO 735+25

1"=30'

SAN. SERV. QUANTITIES THIS SHEET

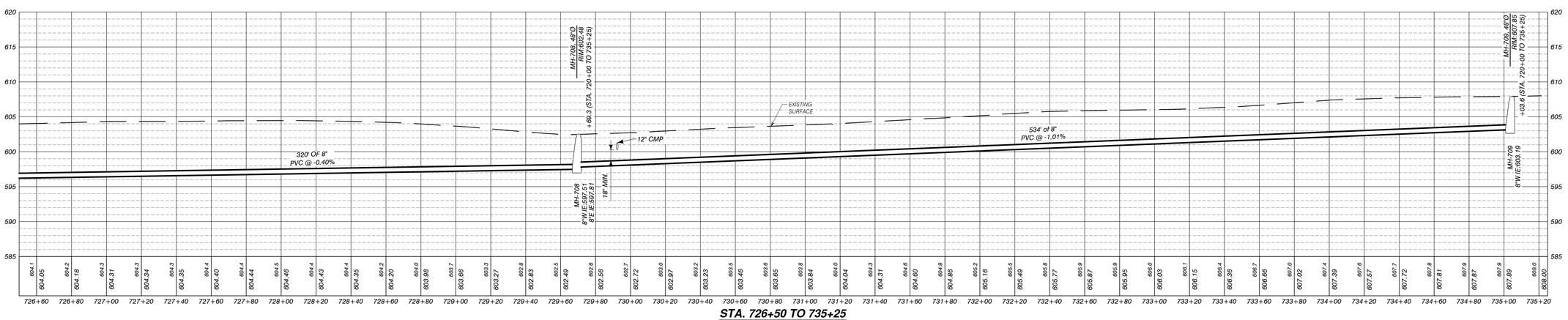
TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-



NORTH

LOCATION MAP

1" = 1000'



STA. 726+50 TO 735+25

HORIZ: 1"=30, VERT: 1"=7.5

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
CJR							

DESIGNER: Performance Engineers, Inc. — 406 Petoskey Avenue, Charlevoix, Michigan 49720; Phone: (231) 547-2121; Fax: (231) 547-0084; www.performanceeng.com

OWNER: TUSCARORA TOWNSHIP

SCALE: 0 30' 60' GRAPHIC SCALE

PROJECT: TUSCARORA TOWNSHIP — SANITARY SEWER EXPANSION PHASE 2 — SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET: PLAN & PROFILE — STA. 726+50 TO 735+25

JOB NO. 22-6003

SHEET NO. C306A

C:\USERS\CARJRASCH\PERFORMANCE ENGINEERS\PERFORMANCE ENGINEERS - PROJECTS\6003\DRAWINGS\C306_6003 PLAN A.DWG - C306A - PLOTTED 2/3/2023 2:25 PM BY CARL J. RASCH

DATE: - CORRECTED BY: - DATE: - CHECKED BY: - DATE: - DRAWN BY: - FILE NAME: C306_6003 PLAN A.DWG

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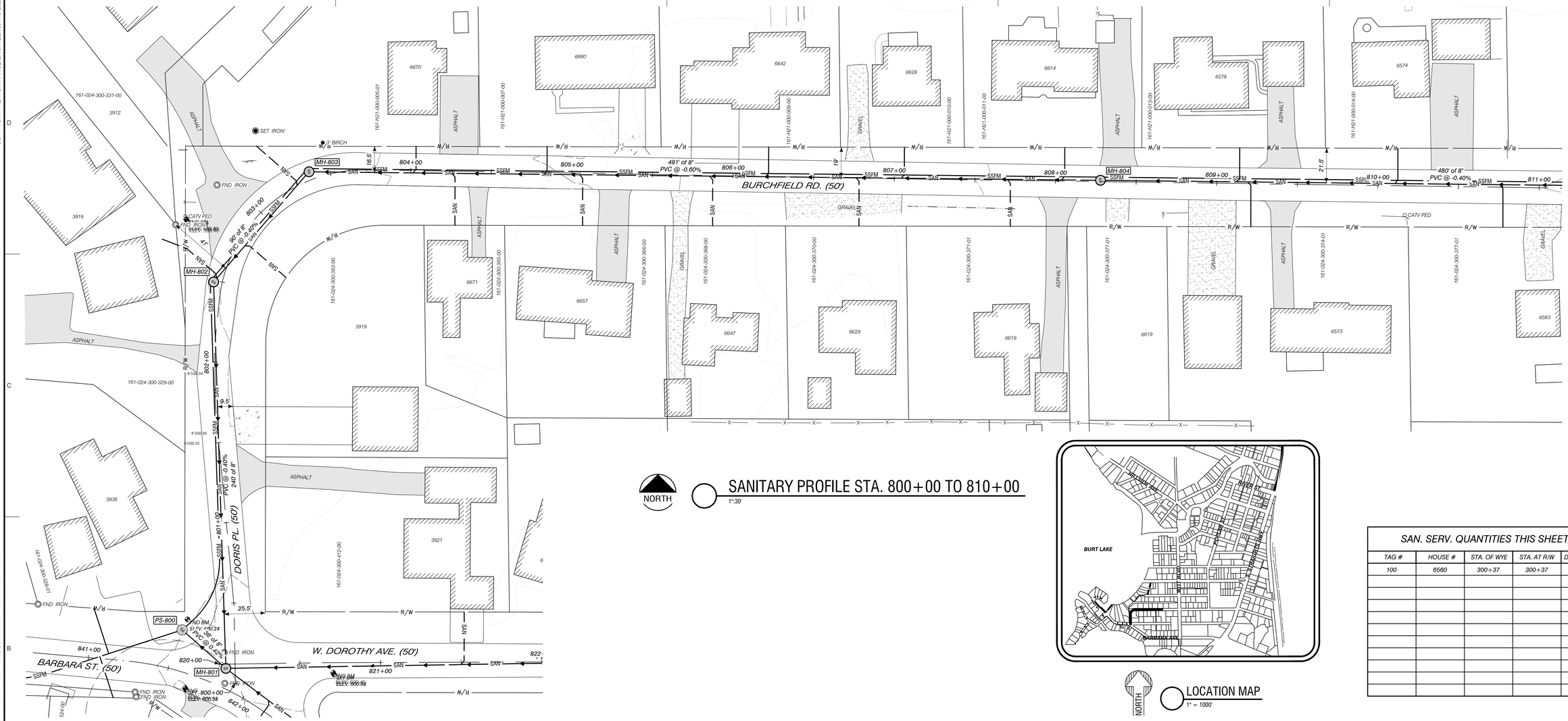


SANITARY PROFILE STA. 800+00 TO 810+00

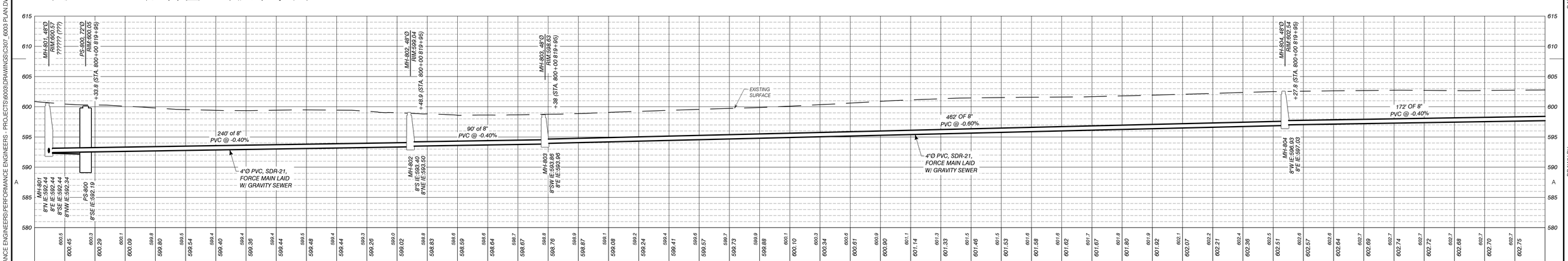
1"=30'

LOCATION MAP

1" = 1000'

SAN. SERV. QUANTITIES THIS SHEET

TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-



STA. 800+00 TO 810+00

HORIZ: 1"=30, VERT: 1"=7.5

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
CJR							

DESIGNER: Performance Engineers, Inc. — 406 Petoskey Avenue, Charlevoix, Michigan 49720; Phone: (231) 547-2121; Fax: (231) 547-0084; www.performanceeng.com

OWNER: TUSCARORA TOWNSHIP

SCALE: 0 30' 60' GRAPHIC SCALE

PROJECT: TUSCARORA TOWNSHIP — SANITARY SEWER EXPANSION PHASE 2 — SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET: PLAN & PROFILE — STA. 800+00 TO 810+00

JOB NO. 22-6003

SHEET NO. C307

C:\USERS\CARLJRASCH\PERFORMANCE ENGINEERS\PERFORMANCE ENGINEERS - PROJECTS\6003\DRAWINGS\C307_6003 PLAN DWG - C307 - PLOTTED 2/3/2023 2:25 PM BY CARL J. RASCH

FILE NAME: C307_6003 PLAN.DWG

DRAWN BY: - CHECKED BY: - CORRECTED BY: - DATE: -

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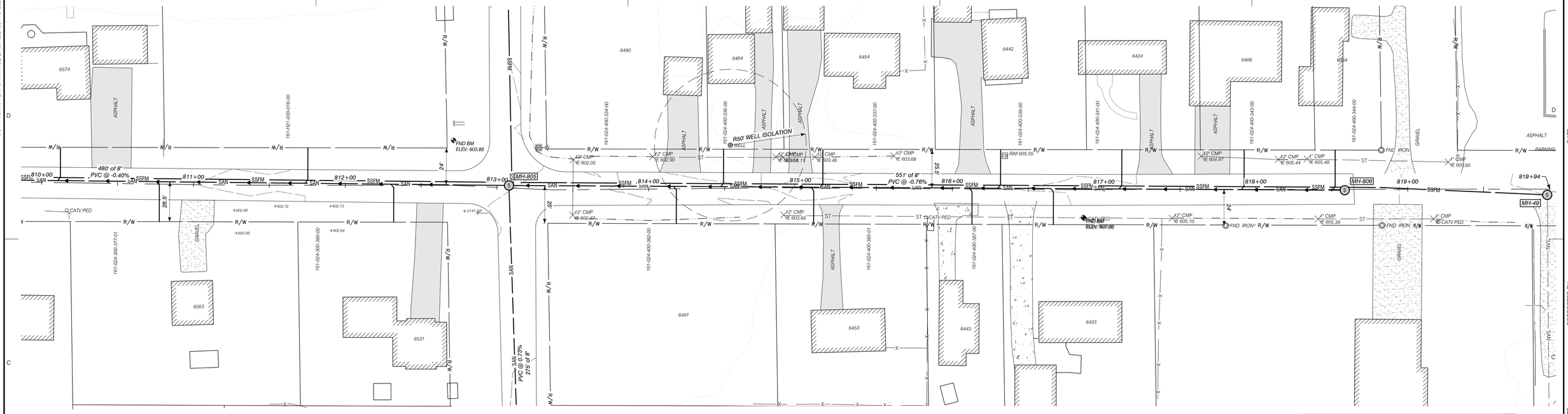
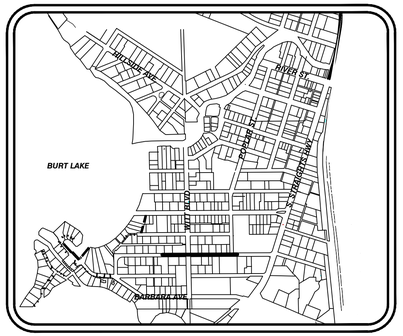


SAN. SERV. QUANTITIES THIS SHEET				
TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-

NORTH

SANITARY PROFILE STA. 810+00 TO 819+95

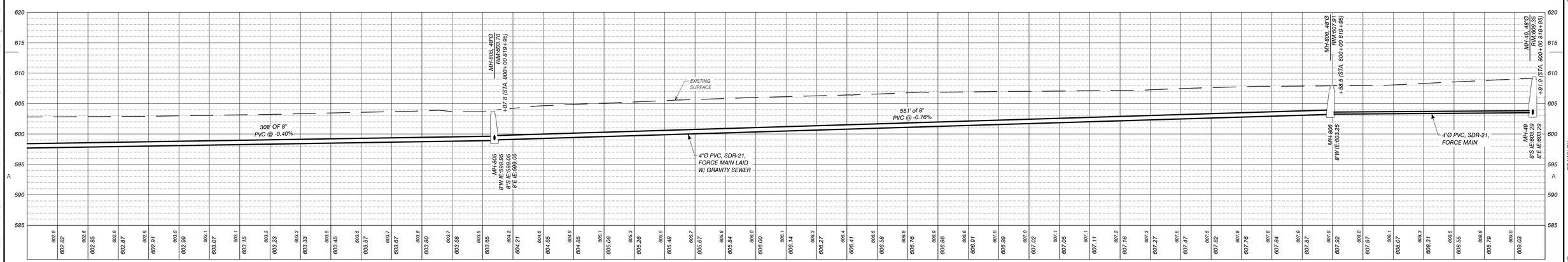
1"=30'



NORTH

LOCATION MAP

1" = 1000'



STA. 810+00 TO 819+95

HORIZ: 1"=30, VERT: 1"=7.5

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
CJR							

DESIGNER: Performance Engineers, Inc. — 406 Petoskey Avenue, Charlevoix, Michigan 49720; Phone: (231) 547-2121; Fax: (231) 547-0084; www.performanceeng.com

OWNER: TUSCARORA TOWNSHIP

SCALE: 0 30' 60' GRAPHIC SCALE

PROJECT: TUSCARORA TOWNSHIP — SANITARY SEWER EXPANSION PHASE 2 — SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET: PLAN & PROFILE — STA. 810+00 TO 819+95

JOB NO. 22-6003

SHEET NO. C308

C:\USERS\CARLJRASCH\PERFORMANCE ENGINEERS\PERFORMANCE ENGINEERS - PROJECTS\6003\DRAWINGS\C308_6003 PLAN.DWG - C308 - PLOTTED 2/3/2023 2:26 PM BY CARL J. RASCH

FILE NAME: C308_6003 PLAN.DWG

DRAWN BY: - DATE: - CHECKED BY: - DATE: - CORRECTED BY: - DATE: -

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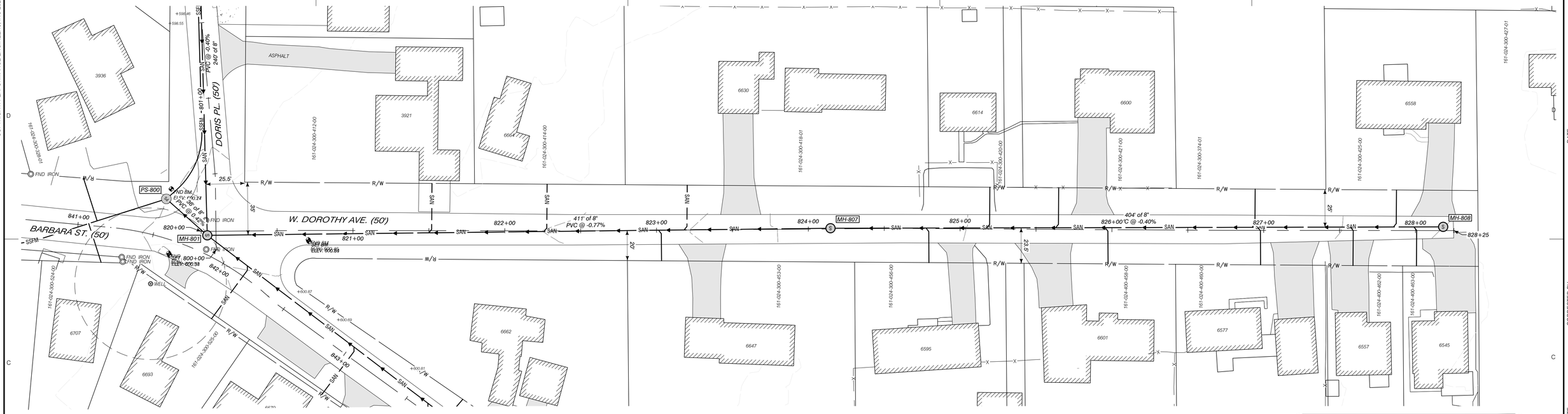


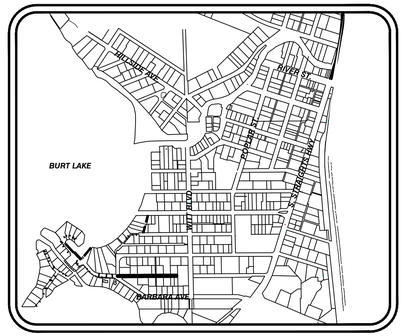
NORTH

SANITARY PROFILE STA. 820+00 TO 828+25

1":30'

SAN. SERV. QUANTITIES THIS SHEET

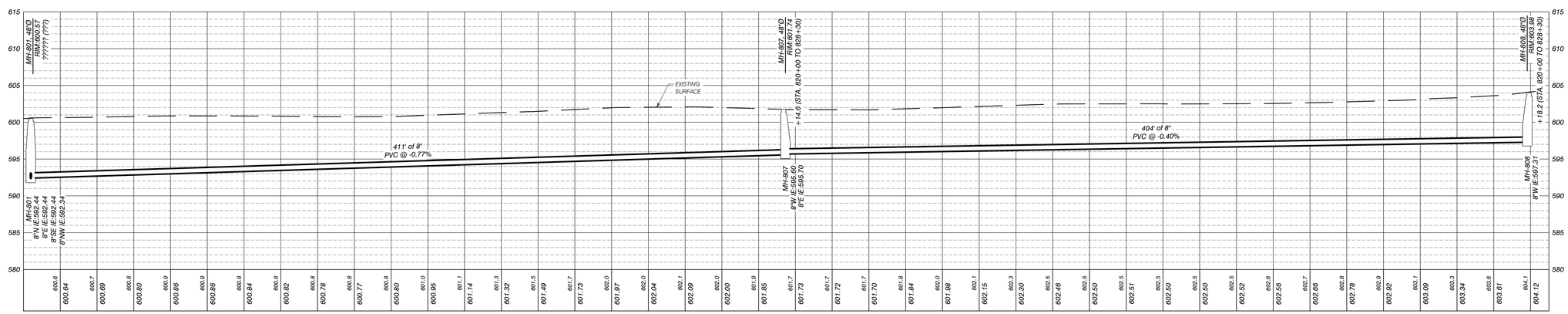
TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-



NORTH

LOCATION MAP

1" = 1000'



STA. 820+00 TO 828+25

HORIZ: 1"=30, VERT: 1"=7.5

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
CJR							

DESIGNER: Performance Engineers, Inc. — 406 Petoskey Avenue, Charlevoix, Michigan 49720, Phone: (231) 547-2121, Fax: (231) 547-0084, www.performanceeng.com

OWNER: TUSCARORA TOWNSHIP

SCALE: 0 30' 60' GRAPHIC SCALE

PROJECT: TUSCARORA TOWNSHIP — SANITARY SEWER EXPANSION PHASE 2 — SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET: PLAN & PROFILE — STA. 820+00 TO 828+25

JOB NO. 22-6003

SHEET NO. C309

C:\USERS\CARLJ\RASCH\PERFORMANCE ENGINEERS\PERFORMANCE ENGINEERS - PROJECTS\6003\DRAWINGS\C309_6003 PLAN.DWG - C309 - PLOTTED 2/3/2023 2:26 PM BY CARL J. RASCH

FILE NAME: C309_6003 PLAN.DWG

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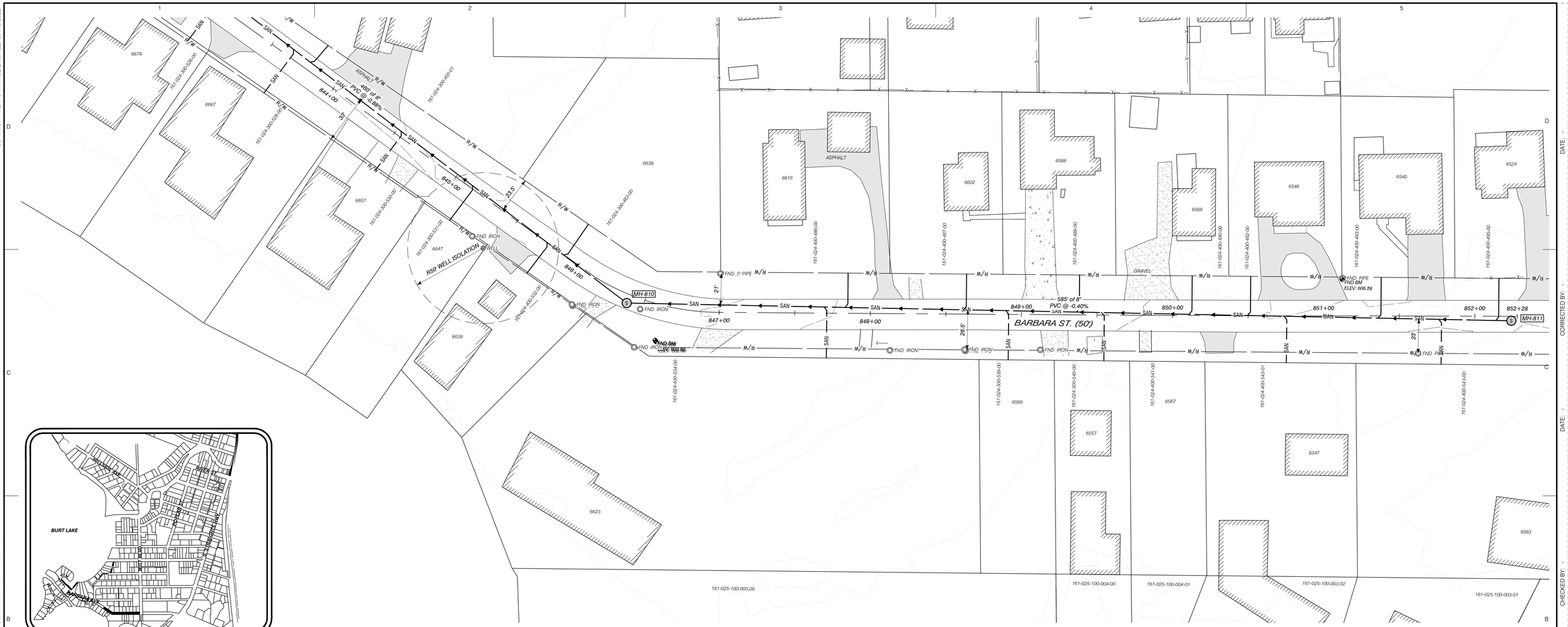
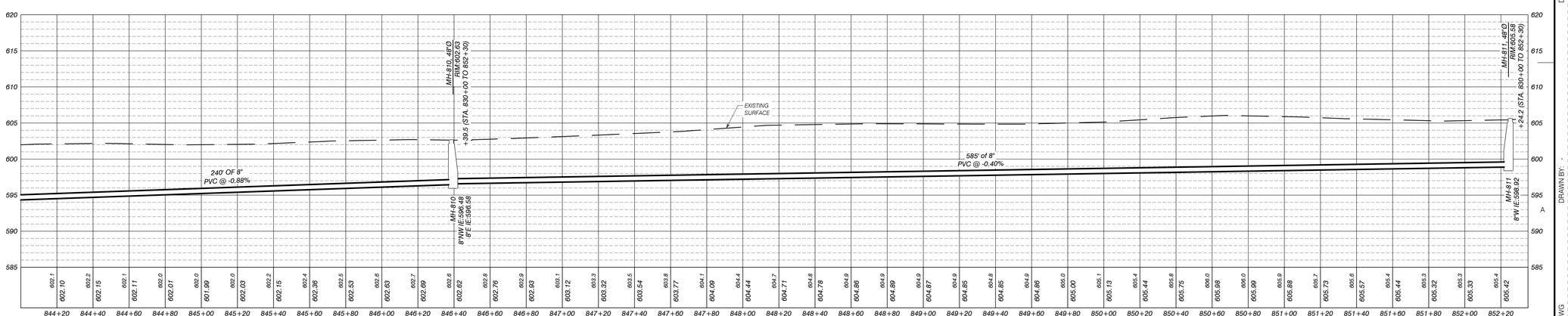


NORTH

LOCATION MAP
1" = 1000'

NORTH

SANITARY PROFILE STA. 844+00 TO 852+30
1":30'



STA. 844+00 TO 852+30
HORIZ: 1"=30, VERT: 1"=7.5

SAN. SERV. QUANTITIES THIS SHEET

TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
CJR							

DESIGNER: Performance Engineers, Inc.
406 Petoskey Avenue
Charlevoix, Michigan 49720
Phone: (231) 547-2121
Fax: (231) 547-0084
www.performanceeng.com

OWNER: TUSCARORA TOWNSHIP

SCALE: 0 30' 60' GRAPHIC SCALE

PROJECT: TUSCARORA TOWNSHIP
SANITARY SEWER EXPANSION PHASE 2
SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET: PLAN & PROFILE
STA. 844+00 TO 852+30

JOB NO. 22-6003

SHEET NO. C310

C:\USERS\CARLJRASCH\PERFORMANCE ENGINEERS\PERFORMANCE ENGINEERS - PROJECTS\6003\DRAWINGS\C310_6003 PLAN.DWG - C310 - PLOTTED 2/3/2023 2:27 PM BY CARL J. RASCH

FILE NAME: C310_6003 PLAN.DWG

DRAWN BY: -
DATE: -
CHECKED BY: -
DATE: -
CORRECTED BY: -
DATE: -

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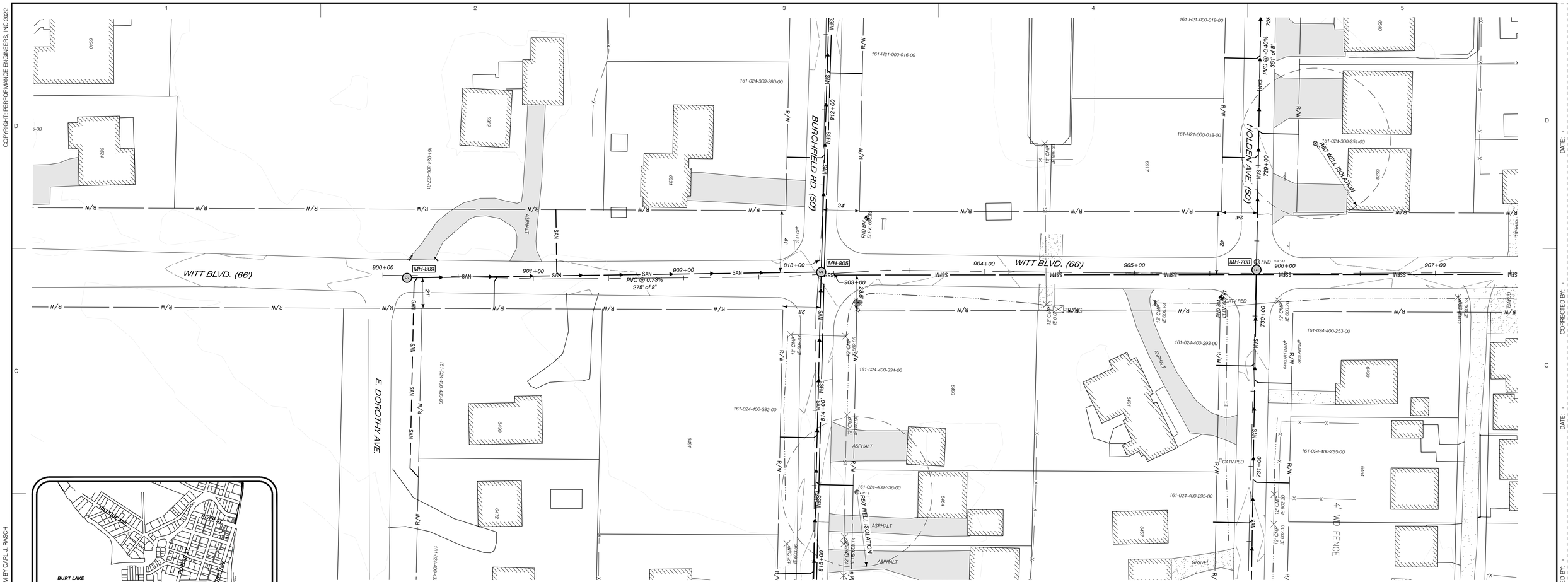
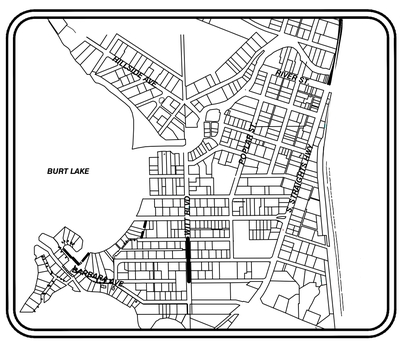




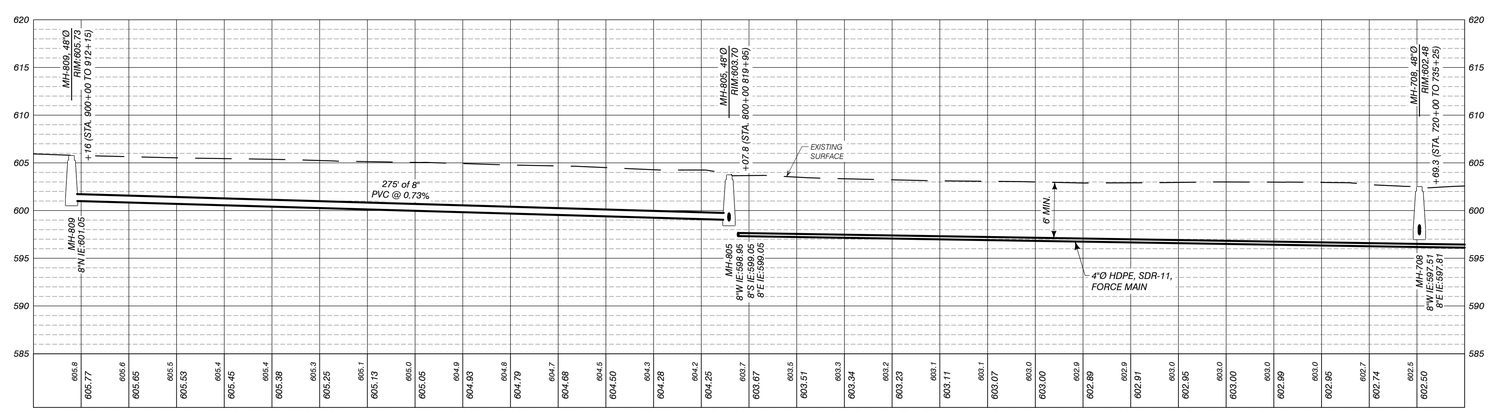
NORTH

LOCATION MAP
1" = 1000'

NORTH

SANITARY PROFILE STA. 900+00 TO 906+00
1":30'

SAN. SERV. QUANTITIES THIS SHEET				
TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-



STA. 900+00 TO 906+00
HORIZ: 1"=30, VERT: 1"=7.5

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
CJR							

DESIGNER
Performance Engineers, Inc.
406 Petoskey Avenue
Charlevoix, Michigan 49720
Phone: (231) 547-2121
Fax: (231) 547-0084
www.performanceeng.com

OWNER
TUSCARORA TOWNSHIP

SCALE
0 30' 60'
GRAPHIC SCALE

PROJECT
TUSCARORA TOWNSHIP
SANITARY SEWER EXPANSION PHASE 2
SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET
PLAN & PROFILE
STA. 900+00 TO 906+00

JOB NO.
22-6003

SHEET NO.
C311

C:\USERS\CARLJRASCH\PERFORMANCE ENGINEERS\PERFORMANCE ENGINEERS - PROJECTS\6003\DRAWINGS\C311_6003 PLAN.DWG - C311 - PLOTTED 2/3/2023 2:27 PM BY CARL J. RASCH

FILE NAME: C311_6003 PLAN.DWG
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CORRECTED BY: -
CHECKED BY: -
DATE: -

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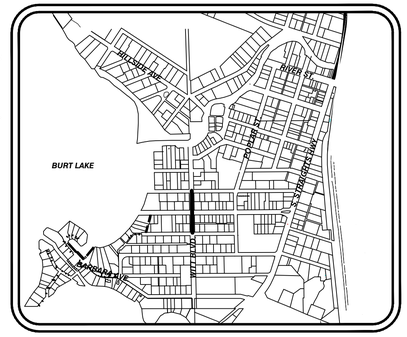
SANITARY PROFILE STA. 906+00 TO 912+15

1":30'

NORTH

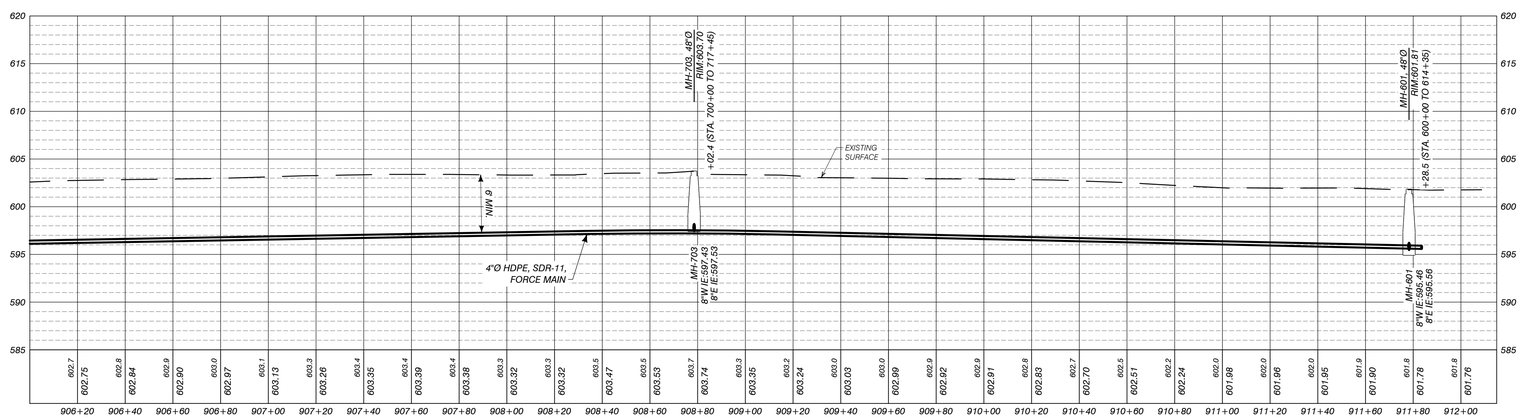
SAN. SERV. QUANTITIES THIS SHEET				
TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-



NORTH

LOCATION MAP

1" = 1000'



STA. 906+00 TO 912+15

HORIZ: 1"=30, VERT: 1"=7.5

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
CJR							

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OWNER: TUSCARORA TOWNSHIP

SCALE: 0 30' 60' GRAPHIC SCALE

PROJECT: TUSCARORA TOWNSHIP
SANITARY SEWER EXPANSION PHASE 2
SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET: PLAN & PROFILE
STA. 906+00 TO 912+15

JOB NO. 22-6003

SHEET NO. C312

C:\USERS\CARJRASCH\PERFORMANCE ENGINEERS\PERFORMANCE ENGINEERS - PROJECTS\6003\DRAWINGS\C312_6003 PLAN.DWG - C312 - PLOTTED 2/3/2023 2:28 PM BY CARL J. RASCH

FILE NAME: C312_6003 PLAN.DWG

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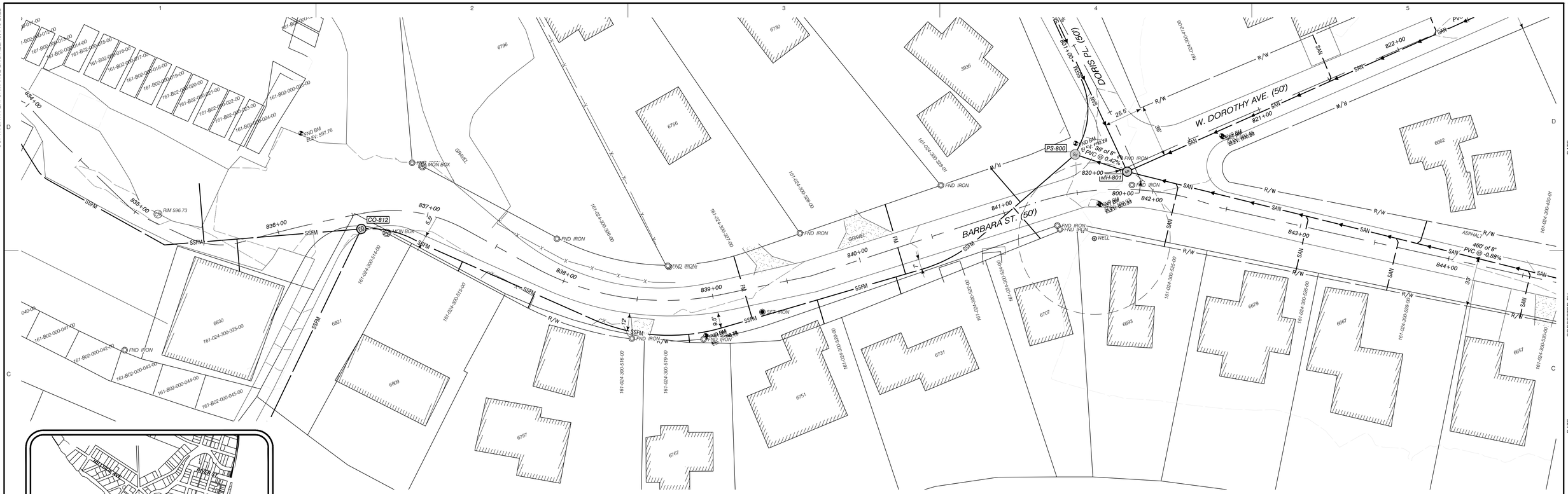
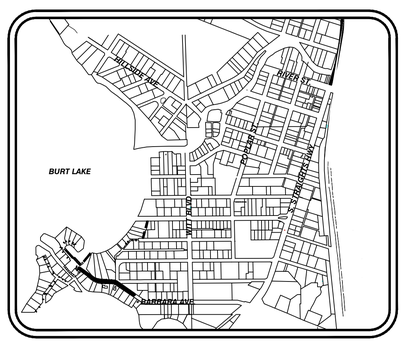




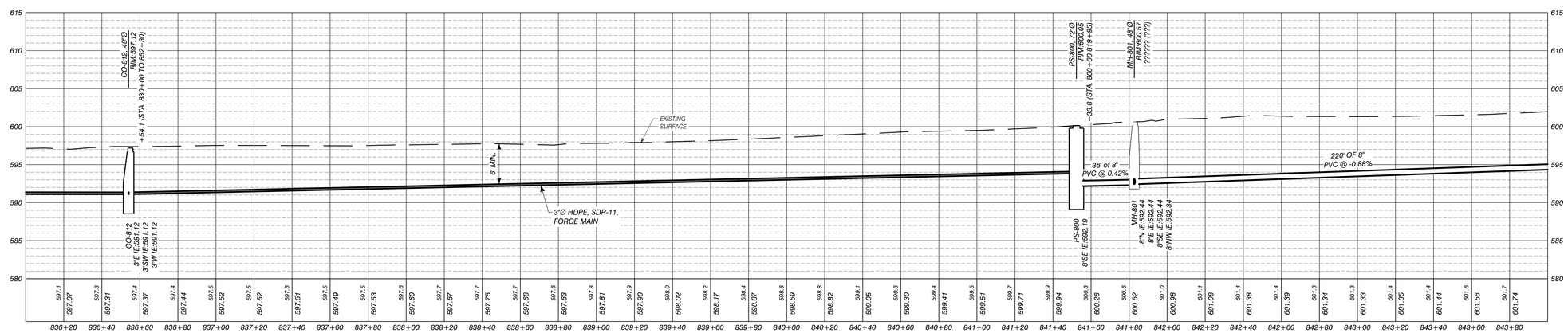
NORTH

LOCATION MAP
1" = 1000'

NORTH

SANITARY PROFILE STA. 836+00 TO 844+00
1":30'

SAN. SERV. QUANTITIES THIS SHEET				
TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-



STA. 836+00 TO 844+00
HORIZ: 1"=30, VERT: 1"=7.5

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
CJR							

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SCALE
0 30' 60'
GRAPHIC SCALE

PROJECT
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SANITARY SEWER EXPANSION PHASE 2
SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET
PLAN & PROFILE
STA. 836+00 TO 844+00

JOB NO.
22-6003

SHEET NO.
C313

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DATE: - CORRECTED BY: - DATE: - CHECKED BY: - DATE: - DRAWN BY: - FILE NAME: C313_6003 PLAN.DWG

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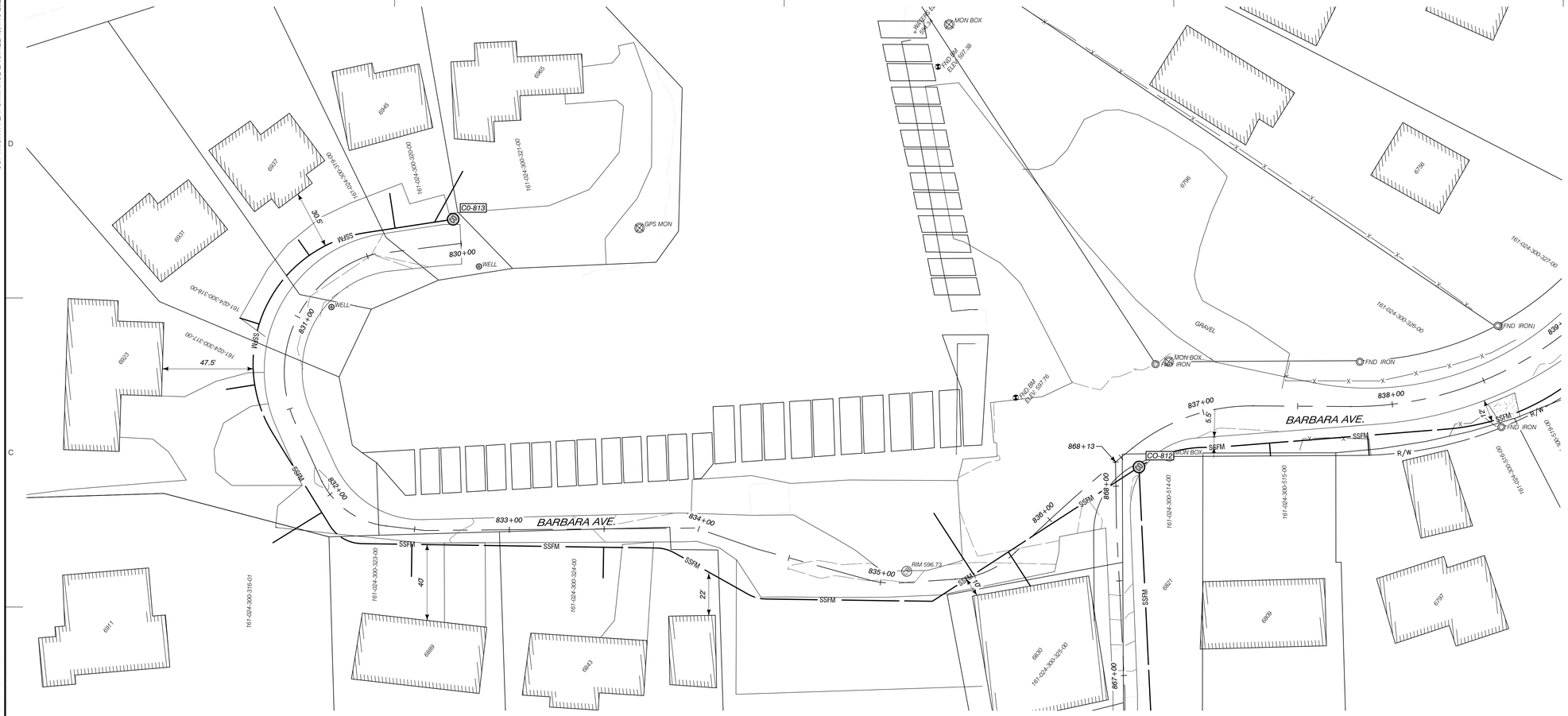
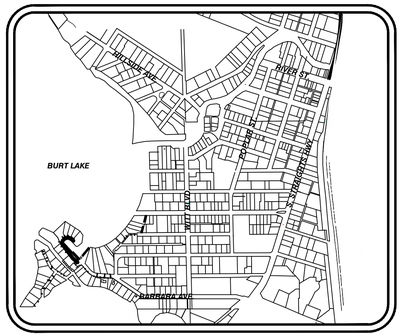




NORTH

LOCATION MAP

1" = 1000'

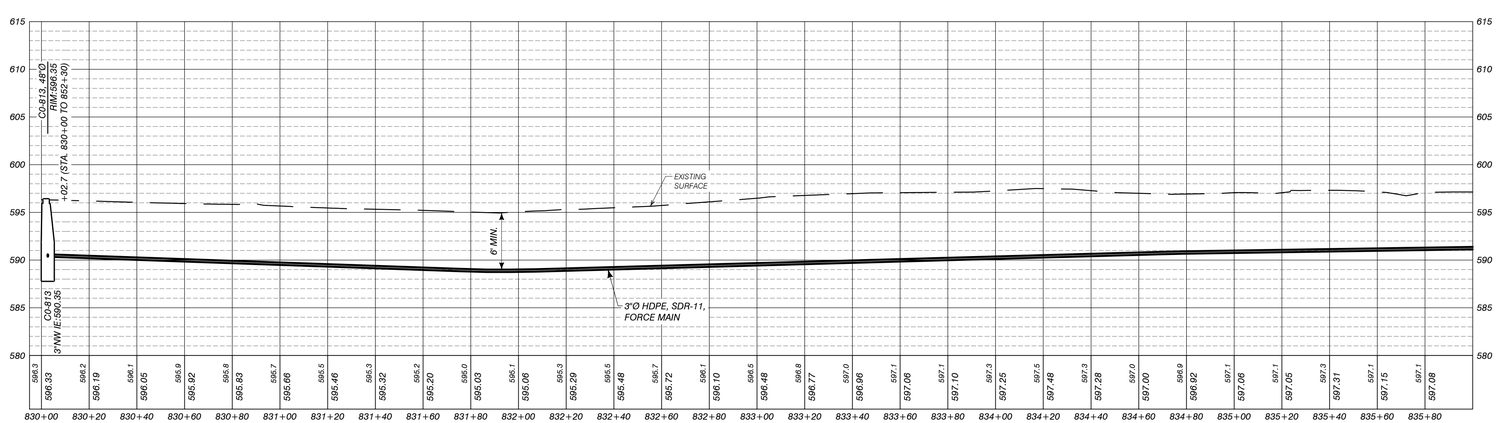
SAN. SERV. QUANTITIES THIS SHEET

TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-

NORTH

SANITARY PROFILE STA. 830+00 TO 836+00

1"=30'



STA. 830+00 TO 836+00

HORIZ: 1"=30, VERT: 1"=7.5

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
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OWNER: TUSCARORA TOWNSHIP

SCALE: 0 30' 60' GRAPHIC SCALE

PROJECT: TUSCARORA TOWNSHIP — SANITARY SEWER EXPANSION PHASE 2 — SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET: PLAN & PROFILE — STA. 830+00 TO 836+00

JOB NO. 22-6003

SHEET NO. C314

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FILE NAME: C314_6003 PLAN.DWG

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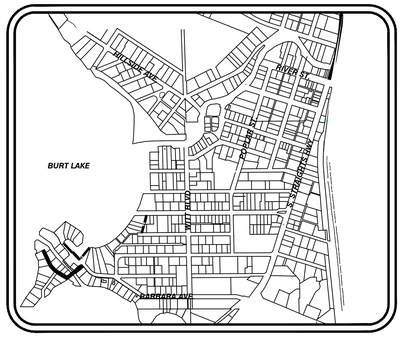


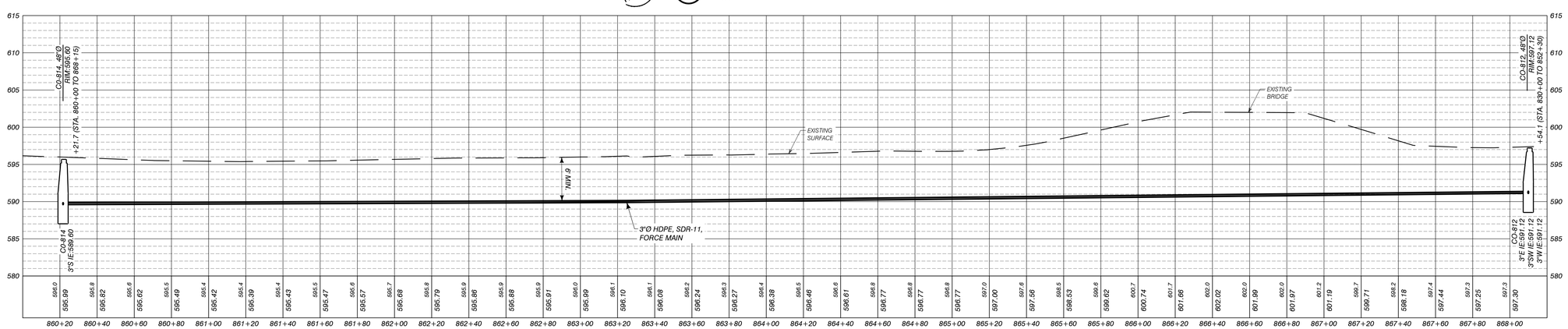
NORTH

LOCATION MAP
1" = 1000'

SAN. SERV. QUANTITIES THIS SHEET				
TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-

NORTH

SANITARY PROFILE STA. 860+00 TO 868+15
1":30'



STA. 860+00 TO 868+15
HORIZ: 1"=30, VERT: 1"=7.5

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GRAPHIC SCALE

PROJECT
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SANITARY SEWER EXPANSION PHASE 2
SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET
PLAN & PROFILE
STA. 860+00 TO 868+15

JOB NO.
22-6003

SHEET NO.
C315

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FILE NAME: C315_6003 PLAN.DWG

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DATE: -
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DATE: -
CORRECTED BY: -
DATE: -

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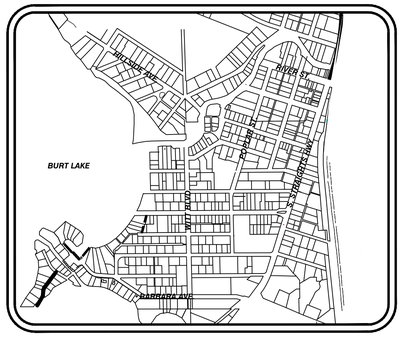
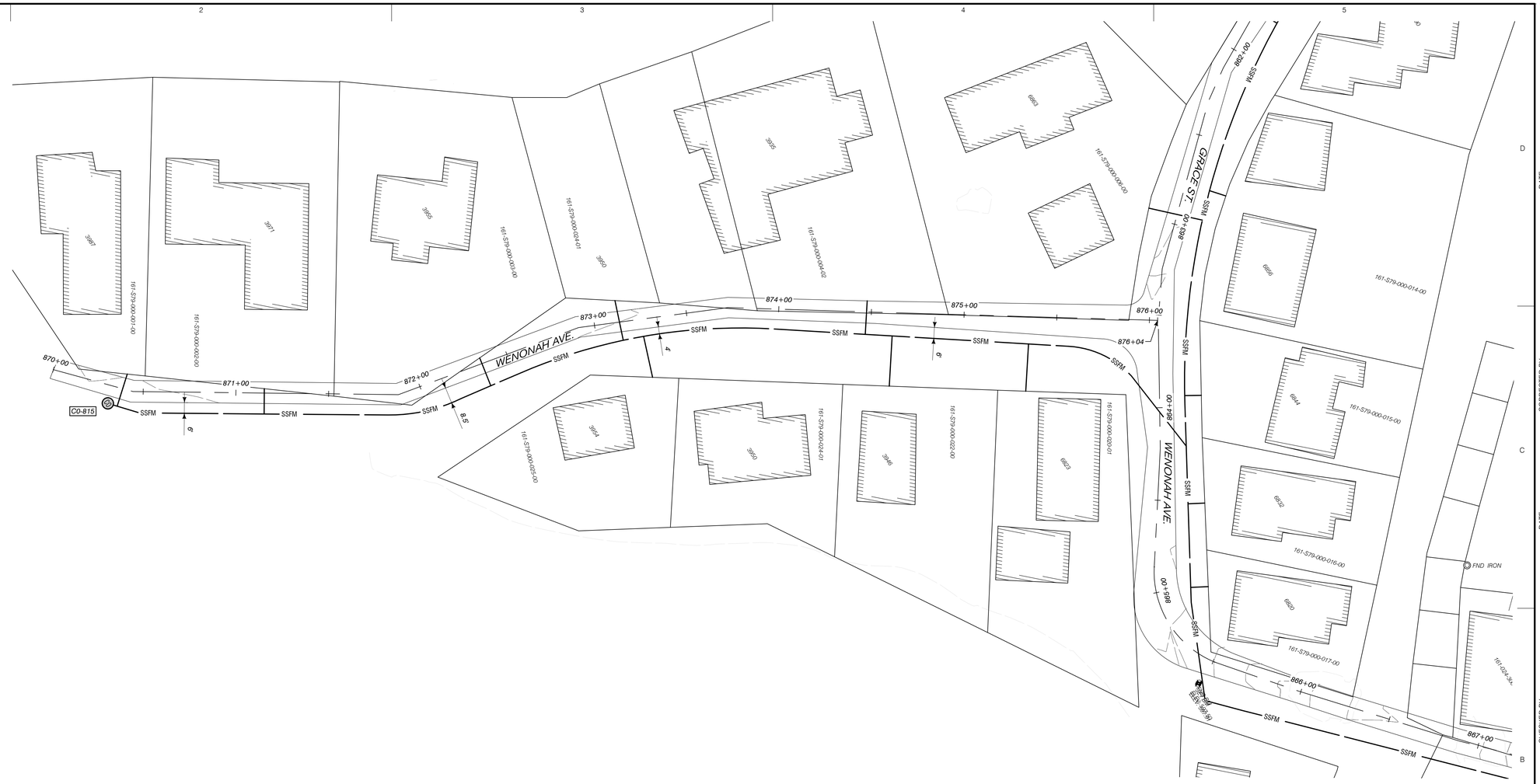


NORTH

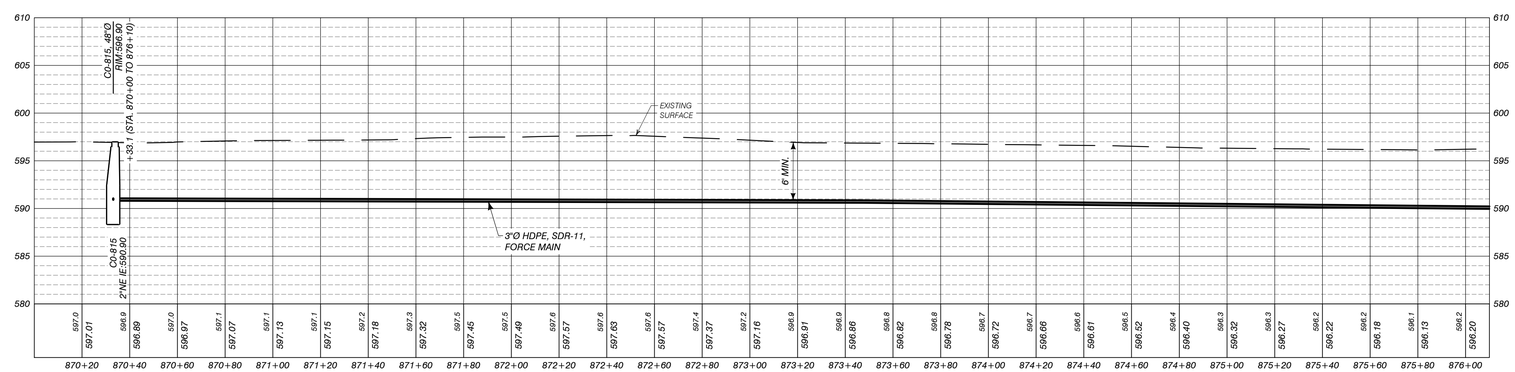
LOCATION MAP
1" = 1000'

SAN. SERV. QUANTITIES THIS SHEET				
TAG #	HOUSE #	STA. OF WYE	STA. AT R/W	DEPTH AT R/W
100	6560	300+37	300+37	-



NORTH

SANITARY PROFILE STA. 870+00 TO 876+10
1":30'



STA. 870+00 TO 876+10
HORIZ: 1"=30, VERT: 1"=7.5

AUTH	DATE	NO.	DESCRIPTION	AUTH	DATE	NO.	DESCRIPTION
CJR							

DESIGNER: Performance Engineers, Inc. — 406 Petoskey Avenue, Charlevoix, Michigan 49720, Phone: (231) 547-2121, Fax: (231) 547-0084, www.performanceeng.com

OWNER: TUSCARORA TOWNSHIP

SCALE: 0 30' 60' GRAPHIC SCALE

PROJECT: TUSCARORA TOWNSHIP — SANITARY SEWER EXPANSION PHASE 2 — SECT. 24, T35N-R3W, INDIAN RIVER, TUSCARORA TWP., CHEBOYGAN COUNTY, MICHIGAN

SHEET: PLAN & PROFILE — STA. 870+00 TO 876+10

JOB NO. 22-6003

SHEET NO. C316

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FILE NAME: C316_6003 PLAN.DWG

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