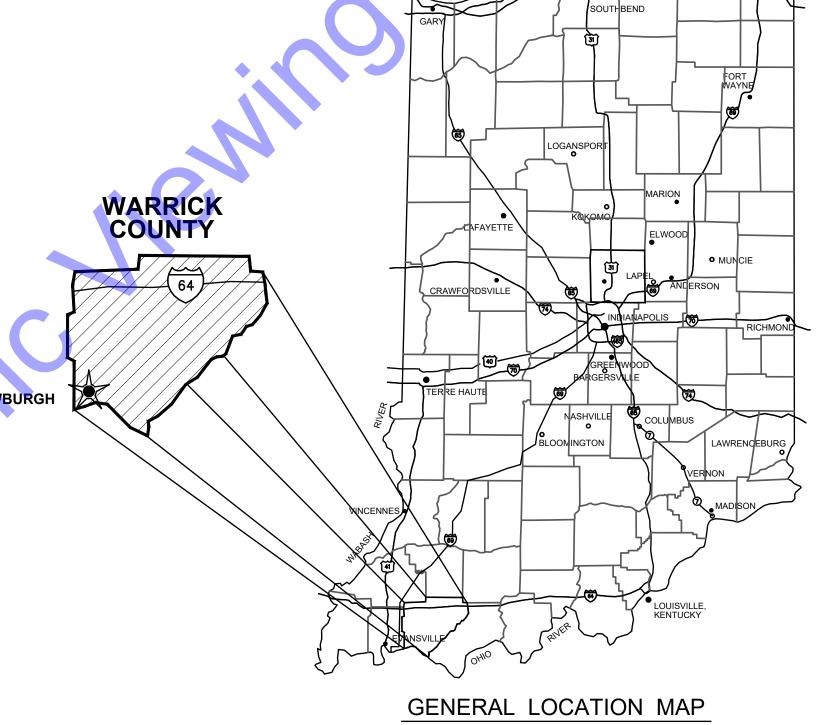
SET NO.

## TOWN OF NEWBURGH, WARRICK COUNTY, INDIANA

# POWERS PLACE SANITARY SEWER IMPROVEMENTS OCTOBER 2025



STACIE M KRIEGER PRESIDENT STEVE SHOEMAKER \_MEMBER ANNE RUST AURAND\_ \_ MEMBER PAUL PERRY\_ \_MEMBER LEANNA K. HUGHES\_ \_MEMBER **TOWN MANAGER** CHRIS COOKE\_ DEPUTY TOWN MANAGER ANDREA BALBONI CLERK-TREASURER NANNETTE ANGEL WW FACILITY SUPT **RUSSELL POWELL** CHRISTOPHER C. WISCHER \_ TOWN ATTORNEY



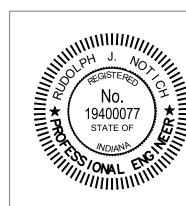


QA/QC BY: DREW O. FLAMION, P.E.

CERTIFIED BY: Rudolph J Notich

RUDOLPH J. NOTICH, P.E.

INDIANA P.E. No. 19400077



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**CONTRACT NO. : S20076** 

#### PROJECT LOCATION MAP

**LEGEND** 



INDICATES PHOTO NUMBER AND DIRECTION (PHOTOS TAKEN BY **COMMONWEALTH ENGINEERS, INC. ON 01/24/25) NOTE - SEE PHOTOS SHEET G-3** 

#### NOTIFICATION INFORMATION

COMMONWEALTH ENGINEERS, INC. 420 NW 5TH ST, SUITE 201 EVANSVILLE, IN 47708 (812) 474-1177

TOWN OF NEWBURGH 23 WEST JENNINGS STREET P.O. BOX 6 NEWBURGH, IN 47630 (812) 475-1012

#### **UTILITY CONTACTS**

SEWER - NEWBURGH SEWER DEPARTMENT TELEVISION - SPECTRUM SUPT. RUSSELL POWELL JOHN WADE P.O. BOX 100 1900 FARES AVE NEWBURGH, IN. 47629 (812) 853-6412 (812) 253-2710 CENTERPOINT ENERGY (GAS AND

ELECTRIC) JON EASTHAM 1 N MAIN **EVANSVILLE, IN 47711** (765) 287-2119

publicproject@centerpointenergy.com TELEPHONE/CABLE/FIBER OPTIC - AT&T

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ASTOUND JONATHAN ENGLE 6600 HANK AVE. **EVANSVILLE, IN 47715** (812) 305-4756

Jonathan.Engle@Astound.com

EVANSVILLE, IN 47711 john.wade@charter.com

WATER UTILITY - CHANDLER WATER AND SEWER DEPT. TYLER KINDER 101 CONSTITUTION CT CHANDLER, IN. 47610 (812) 925-6213 tkinder@townofchandler.org

**DRAWING SET INDEX** SHEET No. | DRAWING No. TITLE **GENERAL** TITLE SHEET G02 GENERAL LOCATION MAP, DRAWING SET INDEX, AND GENERAL NOTES SYMBOLS, ABBREVIATIONS, AND LEGEND G03 SURVEY CONTROL PLAN CIVIL PLAN AND PROFILE - LINE "A" PLAN AND PROFILE - LINE "B' MISCELLANEOUS DETAILS I MD2 MISCELLANEOUS DETAILS II MISCELLANEOUS DETAILS III MD3

/ERS PLACE !

Designed By:| Drawn By: | Checked B JAJ ssue Date: Project No: Scale: 10-2-2025 | S20076 | AS SHOWN

**GENERAL LOCATION** MAP, DRAWING SET INDEX, AND GENERAL NOTES

#### **GENERAL NOTES:**

- ONLY VISIBLE, ABOVE GROUND APPURTENANCES AND MARKINGS OF BURIED UTILITES WITHIN THE SPECIFIED PROJECT LIMITS ARE SHOWN HERE-IN. SAID BURIED UTILITIES WERE LOCATED AT THE SITE BY INDIANA UNDERGROUND (1-800-382-5544) AND ARE SUBJECT TO THE ACCURACY STANDARDS AS ESTABLISHED BY THAT FIRM. NO ATTEMPT HAS BEEN MADE AS PART OF THE SURVEY TO OBTAIN OR SHOW DATA CONCERNING SIZE, DEPTH, CONDITION OR CAPACITY OF THE SAID BURIED UTILITIES, UNLESS SPECIFICALLY NOTED OR SHOWN ON THE PLANS. THE ENGINEER, OWNER OR ASSOCIATED CONSULTANTS/PERSONNEL DOES NOT CERTIFY AS TO THE ACCURACY OR COMPLETENESS OF THE BURIED UTILITIES SHOWN HERE-IN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL REPORT, IN WRITING TO THE ENGINEER, ANY CHANGE IN SITE CONDITIONS THAT MAY POTENTIALLY AFFECT THE SEWER INSTALLATION.
- OTHER BURIED UTILITIES MAY BE IN PROJECT AREA, MARK ALL UTILITIES BEFORE CONSTRUCTION. PRIOR TO ANY EXCAVATION TAKING PLACE ON SITE, CONTACT INDIANA UNDERGROUND 811 AND THE APPROPRIATE UTILITY COMPANY FOR LOCATION OF ALL LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL RESIDENTS OF INTERRUPTION TO THEIR UTILITIES THAT WILL BE CAUSED OR IS CAUSED BY THE CONSTRUCTION.
- NO VISIBLE, ABOVE GROUND EVIDENCE OF CEMETERIES WERE OBSERVED AT THE SUBJECT PROPERTY, BUT THIS DOES NOT PRECLUDE THEIR EXISTENCE. IF ANY ITEMS OF ARCHAEOLOGICAL SIGNIFICANCE ARE ENCOUNTERED DURING CONSTRUCTION, THE ENGINEER ALONG WITH THE PROPER AUTHORITIES SHALL BE CONTACTED IMMEDIATELY.
- 4. AS SPECIFIED IN THE WORKMANSHIP AND MATERIALS SECTION 2, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UNDERGROUND UTILITIES., INCLUDING BUT NOT LIMITED TO: EXISTING UNDERGROUND TELEPHONE, FIBER OPTIC CABLES, STORM SEWERS AND STRUCTURES, CABLE TV, ELECTRICAL, WATER FACILITIES AND STRUCTURES, GAS AND SANITARY SEWER SERVICE LATERALS. IN SOME INSTANCES CONTRACTOR MAY BE REQUIRED TO RUN SANITARY SEWER FACILITIES PARALLEL AND UNDERNEATH BURIED CABLES, ELECTRICAL FACILITIES AND FIBER OPTICS, AS WELL AS ABOVE GROUND ELECTRICAL BOXES AND CABLE PEDESTALS. CONTRACTOR SHALL NOTIFY UTILITY OWNER(S) TO VERIFY TECHNIQUES ACCEPTABLE TO TEMPORARILY SHORE/BRACE OR TEMPORARILY OR PERMANENTLY RELOCATE THESE FACILITIES TO ACCOMMODATE THE SEWER INSTALLATION. CONTRACTOR SHALL CONTACT RESPECTIVE UTILITY TO TEMPORARILY HOLD OR SHORE EXISTING UTILITY POLES (AND GUY ANCHORS) THAT COULD POTENTIALLY BE AFFECTED BY OPEN
- 5. THESE DRAWINGS ARE NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY, ROUTE SURVEY OR A SURVEYOR LOCATION REPORT. APPARENT RIGHT-OF-WAY AND APPROXIMATE PROPERTY LINES ARE BASED ON LIMITED FIELD SURVEY AND PLAN INFORMATION.
- 6. WHERE SANITARY SEWER FACILITIES ARE SHOWN IN STREET, ROAD AND/OR ALLEY RIGHTS-OF-WAY OR DEDICATED EASEMENTS, CONSTRUCTION SHALL BE LIMITED TO SAID RIGHTS-OF-WAY UNLESS SHOWN OTHERWISE.
- 7. PORTIONS OF THE EXISTING FEATURES SHOWN WERE DRAWN USING 2012 DIGITAL OTHO-PHOTO DATA.
- 8. INFORMATION ON THESE DRAWINGS IS INTENDED ONLY FOR THE IDENTIFIED PROJECT SHOWN ON THIS PLAN SET.
- 9. CONTRACTOR SHALL MAINTAIN 18" MINIMUM VERTICAL SEPARATION AND 10' MINIMUM HORIZONTAL SEPARATION BETWEEN EXISTING WATER MAIN AND NEW SANITARY SEWER. WHEN CROSSING VERTICALLY, SEWER SHALL BE LOCATED BELOW WATER MAIN AND SEWER SHALL HAVE PIPE JOINTS LOCATED AS FAR AS POSSIBLE FROM THE WATER MAIN (ONE FULL SEWER PIPE LENGTH CENTERED AT WATER MAIN).
- 10. ALL PIPE INSTALLED WITHIN TRAFFIC INFLUENCES AS INDICATED ON THE PLANS, OR WITHIN 5' OF A ROAD OR DRIVE BY THE OPEN TRENCH METHOD SHALL BE BACKFILLED WITH FULL DEPTH GRANULAR BACKFILL. BACKFILL REQUIREMENTS FOR OPEN CUTS OF ROADWAYS, WHETHER IMPROVED OR UNIMPROVED, SHALL BE IN STRICT ACCORDANCE WITH THE DRAWINGS AND STANDARD SPECIFICATIONS.

- 11. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY BARRICADES, DETOUR SIGNS, WARNING SIGNALS AND LIGHTS BY NIGHT (IN CONFORMANCE WITH THE INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES -LATEST EDITION) REQUIRED TO DIRECT TRAFFIC SAFELY OVER OR AROUND THE PLACE WHERE SUCH WORK IS BEING DONE, SO LONG AS THE WORK IN ANY WAY INTERFERES WITH TRAFFIC.
- 12. THE CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR ANY INJURY OR DAMAGE RESULTING TO PERSONS OR PROPERTY BECAUSE OF SUCH WORK.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL REQUIREMENTS OF GOVERNMENT AGENCIES AND
- 14. THE CONTRACTOR SHALL GIVE NOTICE TO THE OWNER OR DULY ASSIGNED REPRESENTATIVES PRIOR TO EVERY DAY THAT WORK IS NOT BEING PERFORMED AT THE SITE.
- 15. CONTRACTOR, UPON COMPLETION OF THE INSTALLATION OF THE SEWER MAIN AND SETTLEMENT OF THE TRENCH, SHALL LEVEL THE TRENCH AND CULTIVATE A MINIMUM OF TWO TIMES, ALL THE AREAS OF THE PERMANENT AND TEMPORARY EASEMENT AND RIGHT-OF-WAY.
- 16. EROSION CONTROL SILT FENCES OR INLET PROTECTION DEVICES SHALL BE PLACED BELOW ALL AREAS DISTURBED DURING CONSTRUCTION AND THAT DRAINS TO WATERWAYS.
- 17. DURING EXCAVATION OPERATIONS, SEGREGATE OUT ALL TOPSOIL AND STOCKPILE FOR SUBSEQUENT USE IN AREAS TO BE SEEDED OR SODDED. EXTRA CARE SHALL BE TAKEN TO AVOID MIXING STOCKPILED MATERIAL WITH OBJECTIONABLE MATERIAL
- 18. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND/OR ORDERING MATERIAL. REPORT ANY DISCREPANCIES TO THE ENGINEER IN WRITING.

19. WHEN CROSSING UNDER POWERLINES CONTRACTOR SHALL MAINTAIN PROPER O.S.H.A. CLEARANCE

- REQUIREMENTS. 20. THE CONTRACTOR SHALL CONTACT THE NEWBURGH SANITARY SEWER DEPARTMENT OR THEIR DULY ASSIGNED REPRESENTATIVES (2) DAYS BEFORE CONSTRUCTION IS STARTED. THE CONTRACTOR SHALL REPORT TO THE
- RESPECTIVE UTILITY ANY BREAKS, LEAKS, DENTS, OR ANY DAMAGE TO THE THEIR FACILITIES. 21. CONTRACTOR SHALL TEMPORARILY REMOVE EXISTING CONFLICTING FENCES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL RESET EXISTING FENCE UPON CONSTRUCTION COMPLETION. ANY DAMAGED FENCE SHALL
- 22. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DAMAGED UTILITIES.

BE REPLACED AT NO COST TO THE OWNER.

- 23. THE CONTRACTOR SHALL MAINTAIN ROAD RIGHT-OF-WAY THAT HAS BEEN DISTURBED FOR A PERIOD OF TWELVE MONTHS FROM SUBSTANTIAL COMPLETION. MAINTENANCE SHALL MEET THE APPROVAL OF THE OWNER.
- 24. MAINTAIN A MINIMUM OF 10 FEET FROM EDGE OF ALL POWER POLES AND GUY ANCHORS TO EDGE OF TRENCH.
- 25. CONTRACTOR SHALL MAINTAIN ACCESS FOR VECTREN TO ALL ELECTRIC FACILITIES AT ALL TIMES.

#### CENIEDAL ADDDEVILATIONS

SAN SAS SCH SECT SF

SHT

SL SOS SP

SQ

STD

STL

SUP

TOW

TW

TYP

VAR

VERT

W/O

WAS

WC

WH

WL

SY

SANITARY

SCHEDULE SECTION SQUARE FEET

SAMPLE LINE STORM SEWER STOP PLATE

SHEET

SQUARE

STEEL

STANDARD S STL, SS STAINLESS STEEL

SUPERNATANT

SQUARE YARD

TOP OF SLAB

TOP OF WALL

**TYPICAL** 

**VARIES** 

WITH

VERTICAL

WITHOUT

WATER CLOSET

WATER HEATER

YARD HYDRANT

WELDED WIRE FABRIC

WATER LINE

TERTIARY WATER

VACUUM OR VALVE

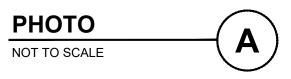
WASTE ACTIVATED SLUDGE

SANITARY SEWER

		<u>GENER</u>	AL ABBREVIATIONS	, ,
A AB AFF ALT ALUM	AIR ANCHOR BOLT ABOVE FINISH FLOOR ALTERNATE ALUMINUM	G GALV GEN GRD	GAS GALVANIZED GENERAL GROUND OR GRADE	
@ APP. ATT AUTO AVG	AT APPARENT AERATION TANK TRANSFER AUTOMATIC AVERAGE	HB HORI HP HW	HOSE BIBB Z HORIZONTAL HORSEPOWER HOT WATER	
B BLDG BM BOT BRG	BAFFLE BUILDING BENCH MARK BOTTOM BEARING	ID IJ INV IP LAV	INSIDE DIAMETER ISOLATION JOINT INVERT IRON PIN LAVATORY	
CFM CL CO COL/C	CUBIC FEET PER MINUTE CENTERLINE CLEAN OUT COLUMN	LAV LB LL LLV LTG	POUND LIVE LOAD LONG LEG VERTICAL LIGHTING	
CONC COP CJ CP CW CY	CONCRETE COPPER CONSTRUCTION JOINT CONTROL POINT COLD WATER CUBIC YARD	MAX MCC MGD MH MIN MJ	MAXIMUM MOTOR CONTROL CENTER MILLION GALLONS PER DAY MANHOLE MINIMUM, MINUTE MECHANICAL JOINT	
D DEC DIA DIM DI DL DSPT	DRAIN DECANT DIAMETER DIMENSION DUCTILE IRON PIPE DEAD LOAD DOWN SPOUT	NC NG NIC NO NO. NPW	NORMALLY CLOSED  NATURAL GAS  NOT IN CONTRACT  NORMALLY OPEN  NUMBER  NON-POTABLE WATER	
DWG E EA EF	DRAWING  ELECTRICAL CONDUIT  EACH  EACH FACE	OC OD OPG OPP	OUTSIDE DIAMETER	
EFFL EL EW EX EXF	EFFLUENT ELEVATION EACH WAY EXISTING	PB PE P/L POJ PSF PSI PVC	PROPERTY LINE PUSH ON JOINT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	ΑL
F FCAR	FILTER FLANGED COUPLING ADAPTER,	PW	POTABLE WATER	
FD FDN FFE FH FLD FLG FL	RESTRAINED FLOOR DRAIN FOUNDATION FINISHED FLOOR ELEVATION FIRE HYDRANT FILTRATE DRAIN FLANGE FLUSHING LINE	R RAD RAS RCP RD REINI REQ'I R/W (	RETURN ACTIVATED SLUDGE REINFORCED CONCRETE PIPE ROOF DRAIN F REINFORCING	



TELEPHONE PEDESTAL & ELECTRIC MANHOLE (ABANDONED) (LOOKING NORTH)





TRANSFORMER & TELEPHONE PEDESTAL (LOOKING NORTH)





SANITARY MANHOLE (LOOKING NORTH)

РНОТО	
NOT TO SCALE	

PHOTOLOG (SEE AERIAL ON SHEET G02 FOR LOCATIONS)

− −400− − CONTOUR MAJOR

#### GENERAL SCHEMATIC LEGEND

FLR

FM

FRP

FT

FTG

FLOOR

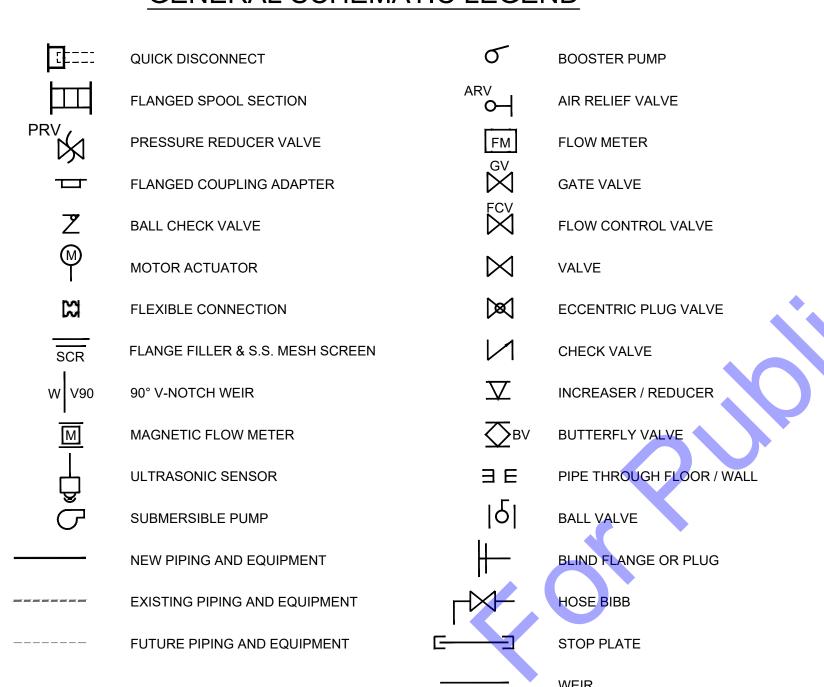
FOOTING

FORCE MAIN

FEET OR FOOT

FINISHED WATER

FIBER REINFORCED PLASTIC



#### HATCHING SYMBOLS

	<del>• • • • • • • • • • • • • • • • • • • </del>
	-CMU WALL (PLAN VIEW) -GRANULAR BACKFILL (PROFILE VIEW)
	- DEMOLITION (CONTRACTOR SHALL REFER TO DETAILED SPECIFICATIONS)
	- GROUT
4 4 4 4	- CONCRETE
	- STEEL
	- COMPACTED GRANULAR BACKFILL OR COMPACTED FOUNDATION
	- ABANDONED IN PLACE

#### DDV/WING I ECEND

DRAWING LEGEND							
EXISTI	NG FEATURES	NEW/PROPOSED FEATURES					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION				
— EXW —— EXW —— EXW ——	WATER LINE		NEW STORM/SANITARY MANHOLE				
EXSN EXSN	SANITARY SEWER		NEW STORM/SANITARY SEWER				
EXFM EXFM	FORCE MAIN		NEW STORM INLET				
EXSTM EXSTM EXSTM	STORM SEWER		ABANDON, REMOVE OR GROUT				
— EXG — EXG — EXG —	GAS LINE		FILL SEWER, PER PLANS				
—— ЕХВЕ —— ЕХВЕ ——	BURIED ELECTRIC		PERMANENT EASEMENT				
EXOHE EXOHE	OVERHEAD ELECTRIC		TEMPORARY EASEMENT				
—— EXBT ——— EXBT ——— EXBT ———	BURIED TELEPHONE	£ 3	TREE TO BE REMOVED				
EXOHT EXOHT	OVERHEAD TELEPHONE	\(\frac{\pi}{2}\)					
—— EXBC——— EXBC——— EXBC——	BURIED CABLE		FLOWABLE FILL (PROFILE)				
ET	ELECTRIC PEDESTAL		CONCRETE SURFACE REPLACEMENT (PROFILE OR PLAN)				
TP	TELEPHONE PEDESTAL						
□ CATV	CABLE TELEVISION PEDESTA	L ( ) ( ) ( )	GRANULAR BACKFILL (PROFILE)				
<b>-</b>	UTILITY POLE	[	ASPHALT SURFACE REPLACEMENT (PROFILE)				
•-1	GUY ANCHOR		(FROTIEE)				
<b></b>	3 WAY FIRE HYDRANT						
Ø	2 WAY FIRE HYDRANT						
0-	FLUSH VALVE						
0-	YARD HYDRANT						
$\oslash$	WATER METER						
€	ELECTRIC METER						
<b>+</b>	BENCHMARK/CONTROL POINT						
-	POWER POLE						
	SANITARY MANHOLE	DISCLAIME					
○ OR **	TREE (DIAMETER AS NOTED)		ING REFLECTS TYPICAL INFORM NOT BE APPLICABLE TO THIS P				
$\Diamond$	SMALL BUSH/TREE	COME MAT	DE ALL ESABLE TO THIS				
4 <del>0</del> 3	CONTOUR MINOR						

PICAL INFORMATION, BLE TO THIS PROJECT.

WERS PLACE SANITARY SEWER UTILITY IMPROVEMENTS

Designed By: Drawn By: Checked By JAJ ssue Date: Project No: Scale:

SYMBOLS, ABBREVIATIONS, AND LEGEND

10-2-2025 | S20076 | AS SHOWN

Drawing No: **G03** 

Sheet: 3 OF 9



#### SURVEY CONTROL PLAN

SCALE: 1"=100'-0" 0 100' 200

CONTROL POINTS								
POINT NO.	NORTHING	EASTING	DESCRIPTION					
1	982810.72	2850942.89	5/8 rebar bent					
2	982866.21	2850893.57	capped 5/8 rebar bent					
3	982757.47	2851414.11	Half IN Pipe					
4	982765.25	2851606.88	5/8 rebar					

Project coordinates are based on the following:

HORIZONTAL-US State plane coordinates: NAD83 (North American Datum) Indiana West Zone (1302) VERTICAL- USGS 1988 NAVD (North American Vertical Datum)-per GPS observations (Not verified by physical location of published USGS monuments)

#### SHEET NOTES:

 CONTRACTOR SHALL VERIFY CONTROL POINT ELEVATIONS AGAINST A BENCHMARK (TBM) PRIOR TO USE IN THE EVENT THE CONTROL POINT HAS BEEN DISTURBED SUBSEQUENT TO THE SITE SURVEY BEING COMPLETED.

#### UTILITY COLLECTION AND PROJECT DEPICTION OF EXISTING SUBSURFACE UTILITY DATA

UTILITY QUALITY LEVEL DESCRIPTIONS:

UTILITY QUALITY LEVEL A: PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. ACCURACY OF LOCATION MATCHES PROJECT SURVEY TOLERANCE.

UTILITY QUALITY LEVEL B: INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. THE RELIABILITY OF THIS INFORMATION IS SURVEYED TO PROJECT CONTROL AND SUBJECT TO ACCURACY LEVELS OF THE GEOPHYSICAL TOLERANCE DEFINED BY THE PROJECT.

UTILITY QUALITY LEVEL C: INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND CORRELATING QUALITY LEVEL D INFORMATION.

UTILITY QUALITY LEVEL D: INFORMATION DERIVED FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS.

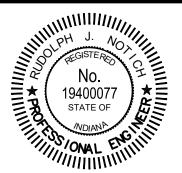
PROJECT COLLECTION AND DEPICTION:

1. ALL UTILITIES DEPICTED AT QUALITY LEVEL B.

 QUALITY LEVEL B TOLERANCE IS SUBJECT TO THE ACCURACY STANDARDS ESTABLISHED BY INDIANA CODE 8-1-26, AS LOCATED BY INDIANA 811 LOCATING SERVICE. ENGINEERS, INC.

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https://commonwealthengineers.com/



Rudolph J Notech 10-2-20

WERS PLACE SANITARY SEWER
UTILITY IMPROVEMENTS

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Date								
By								
Ibmittal / Revision								

ssue Date: Project No: Scale:
10-2-2025 S20076 AS SHOWN

Designed By: Drawn By: Checked By

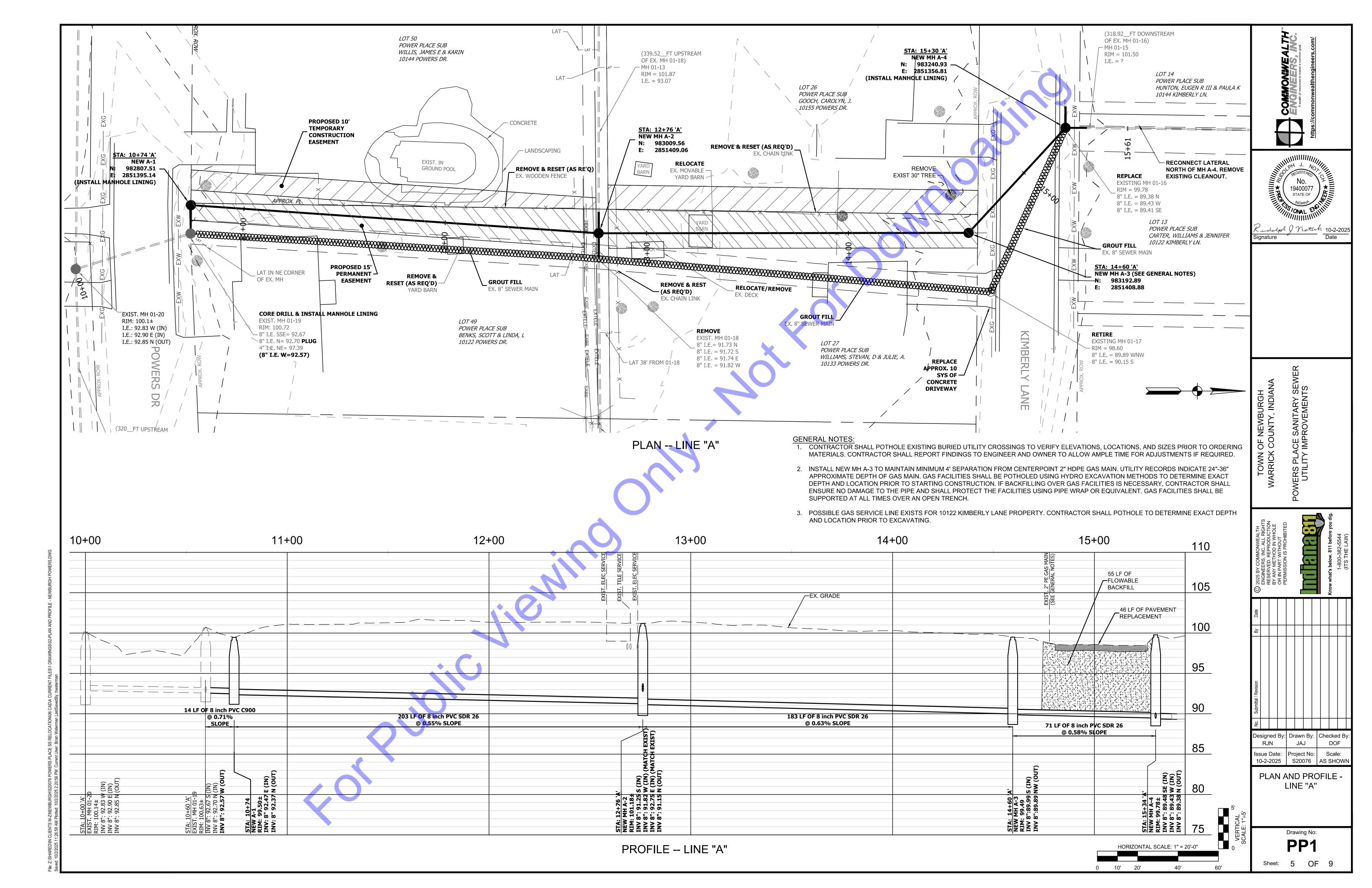
JAJ

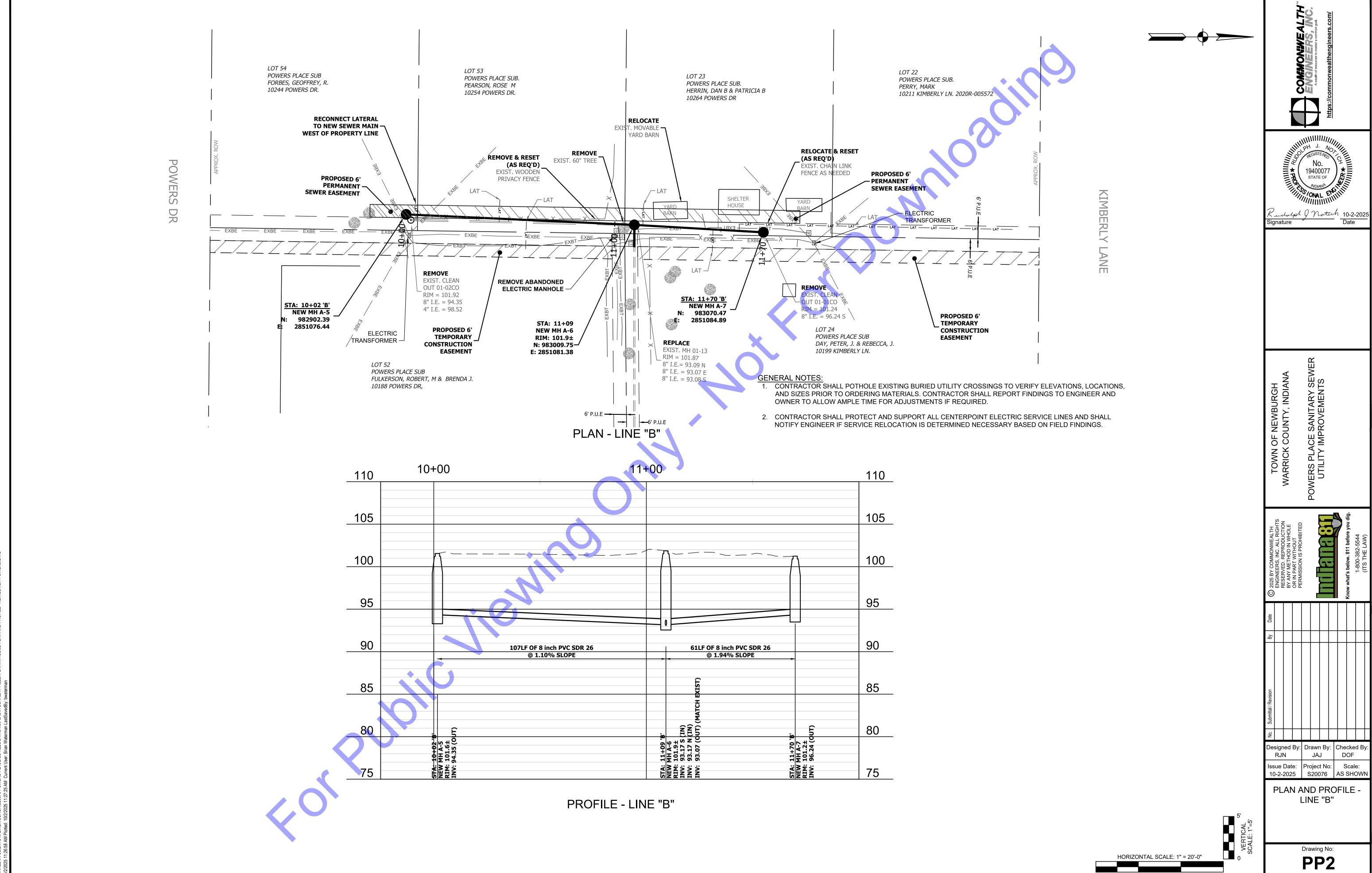
RJN

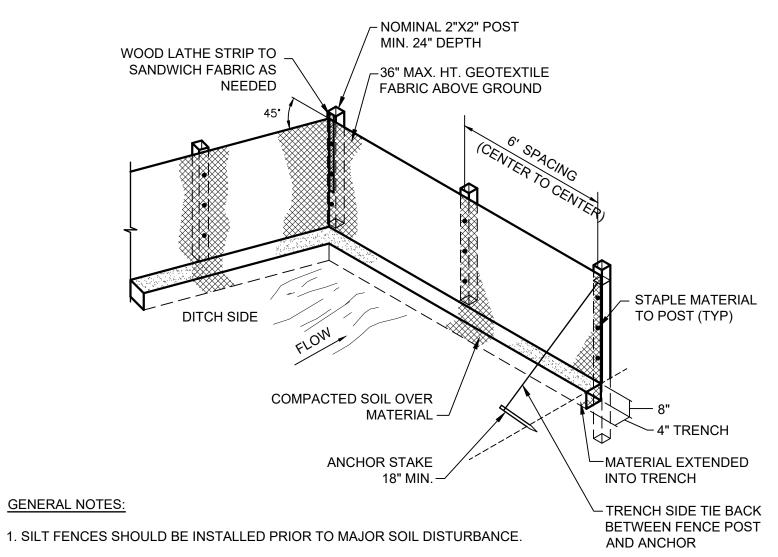
SURVEY CONTROL PLAN

**G04** 

Sheet: 4 OF 9





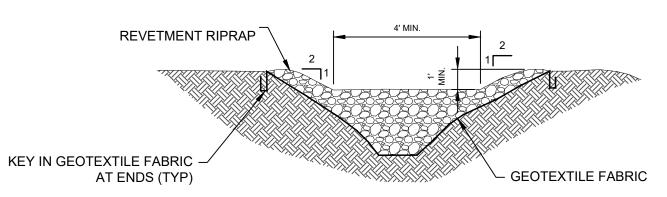


**GENERAL NOTES:** 

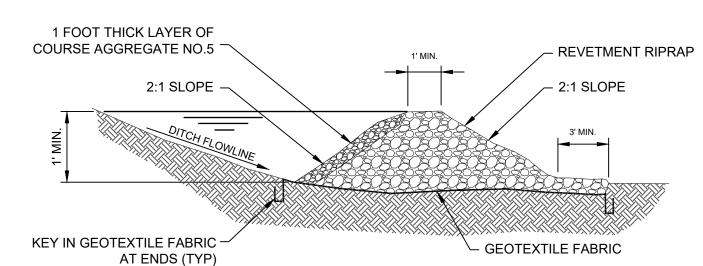
- 2. FENCES SHALL BE INSTALLED BETWEEN THE TRENCH AND ANY DRAINAGE DITCHES OR SWALES.
- 3. FENCES SHALL ALSO BE INSTALLED AROUND THE STOCKPILED SOILS.
- 4. THE GEOTEXTILE SHALL BE FREE FROM DEFECTS, TEARS, PUNCTURES, FLAWS, DETERIORATION OR DAMAGE INCURRED DURING MANUFACTURE, TRANSPORTATION, STORAGE, OR INSTALLATION.
- 5. TIE BACKS SHALL BE PLACED AS REQUIRED.

#### SILT FENCE

NOT TO SCALE



#### SECTION PERPENDICULAR TO FLOWLINE

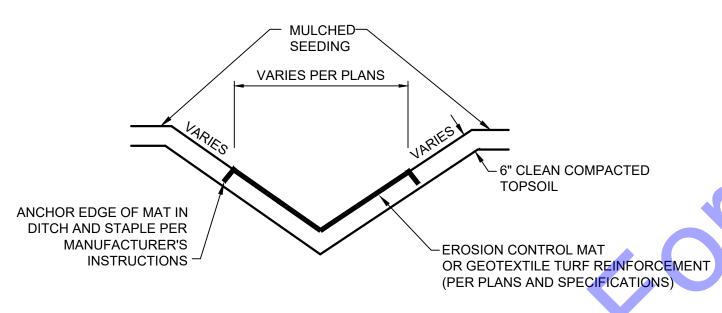


#### SECTION PARALLEL TO FLOWLINE

GENERAL NOTES: 1. RIPRAP DITCH CHECK DAMS SHALL BE PLACED SUCH THAT THE TOP OF THE DOWNSTREAM CHECK DAM IS AT THE SAME ELEVATION AS THE TOE OF THE ADJACENT UPSTREAM CHECK DAM. 2. AFTER COMPLETION OF CONTRACT, OR AS REQUESTED BY OWNER, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL ITEMS, REMOVE ALL ACCUMULATED DEPOSITS AND, AS REQUIRED, SEED AND MULCH OR SOD AS REQUIRED TO ESTABLISH AREA TO CONDITION PRIOR TO CONSTRUCTION.

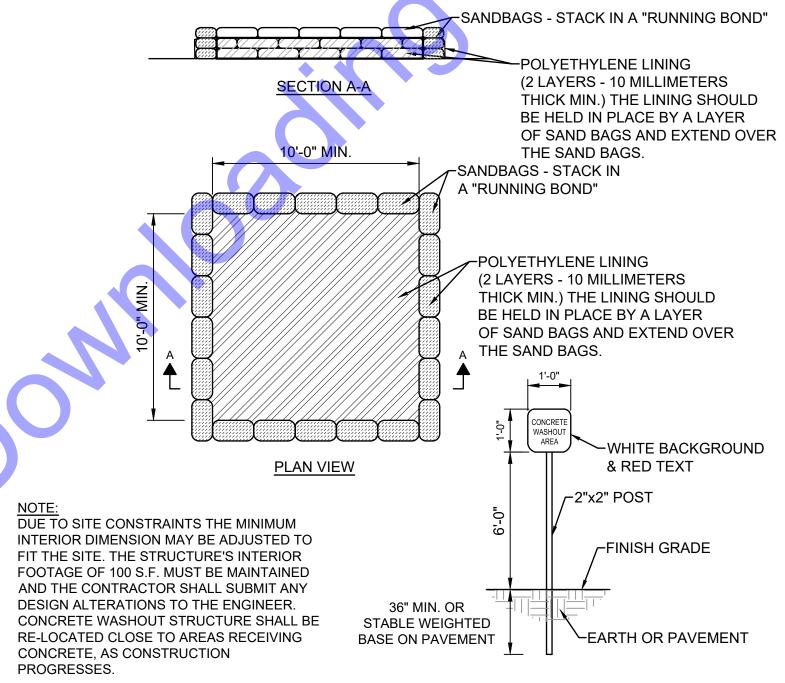
ROCK CHECK DAM DETAIL

NOT TO SCALE



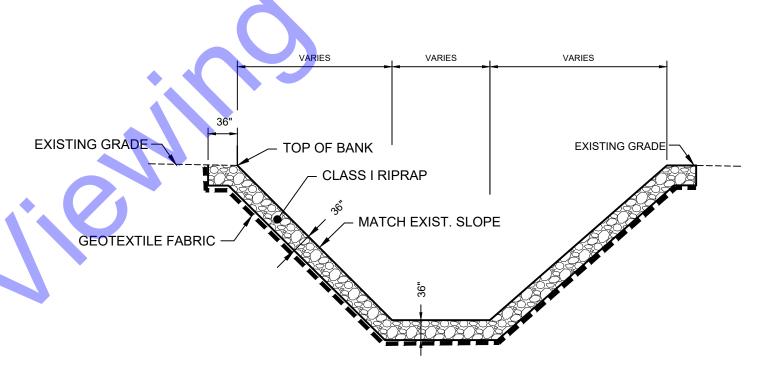
#### DITCH/SWALE RESTORATION DETAIL

NOT TO SCALE



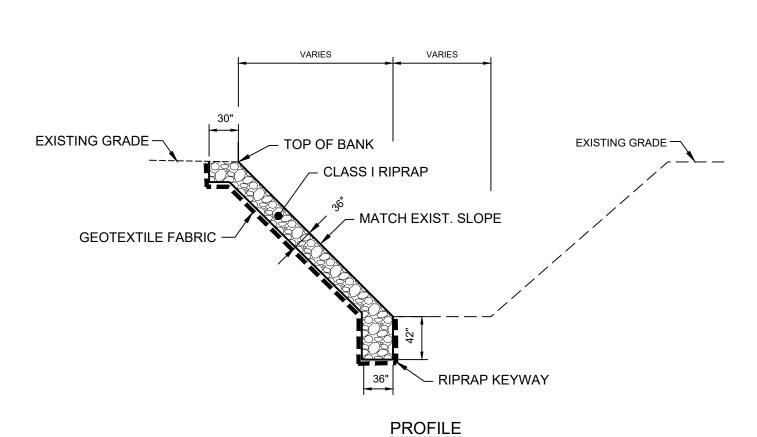
CONCRETE WASHOUT DETAIL

NOT TO SCALE



**PROFILE** 

RIPRAP CHANNEL DETAIL NOT TO SCALE



RIPRAP EMBANKMENT DETAIL

NOT TO SCALE

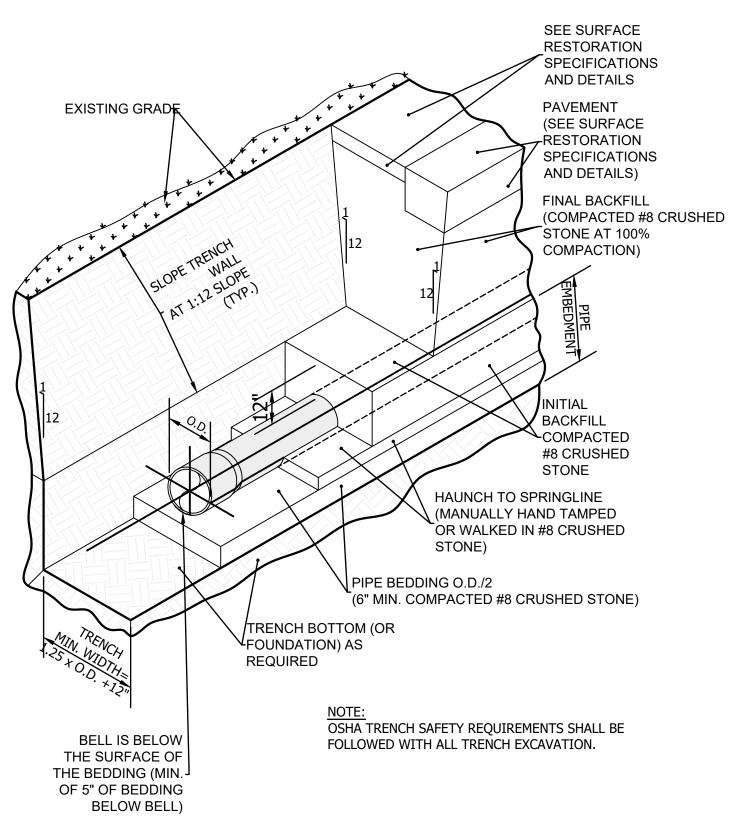
udolph & Notuch 10-2-202 WERS PLACE S UTILITY IMPE

Designed By: Drawn By: Checked By RJN JAJ ssue Date: Project No: Scale: 10-2-2025 | S20076 | AS SHOWN

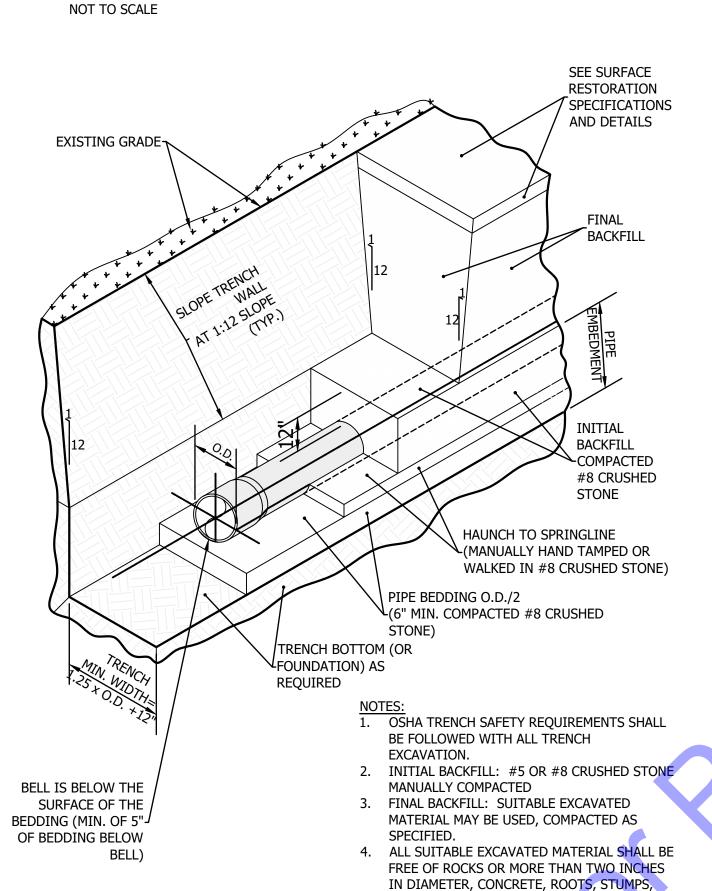
**MISCELLANEOUS DETAILS I** 

> Drawing No: MD1

Sheet: 7 OF 9



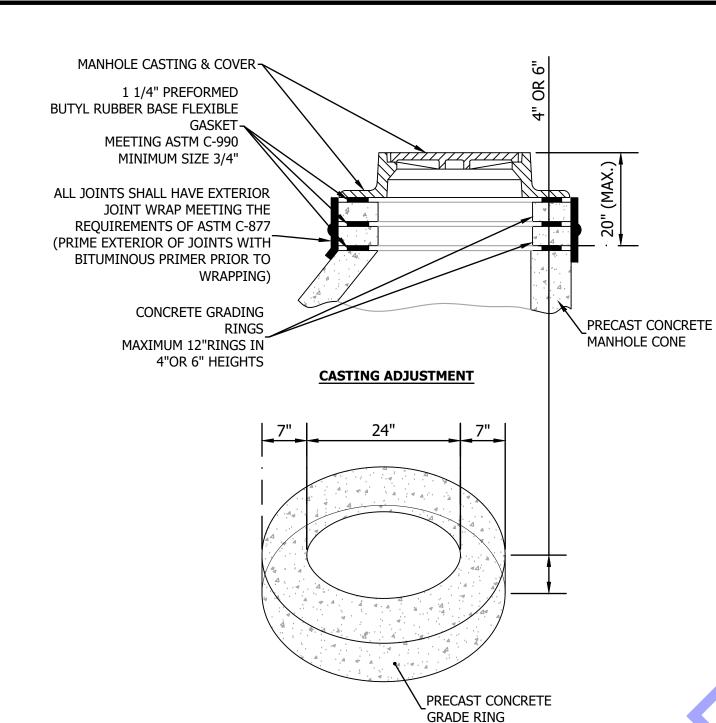
### NON-RIGID SANITARY SEWER PIPE BEDDING & BACKFILL IN AREAS SUBJECT TO TRAFFIC



NON-RIGID SANITARY SEWER PIPE BEDDING & BACKFILL IN AREAS NOT SUBJECT TO TRAFFIC

TRASH, FROZEN MATERIALS, OR OTHER

SIMILAR MATERIAL.



NOTE:
1. MINIMUM CONCRETE STRENGTH: 4,500 PSI AT 28

 PRECAST GRADE RINGS SHALL CONTAIN WATER PROOFING ADDITIVE, XYPEX C-1000 RED OR APPROVED EQUAL.

> NOTE: GROUT SHALL BE

USED AROUND ALL

PIPE PENETRATIONS

**GROUT WILL NOT BE** 

PERMITTED IN ANY

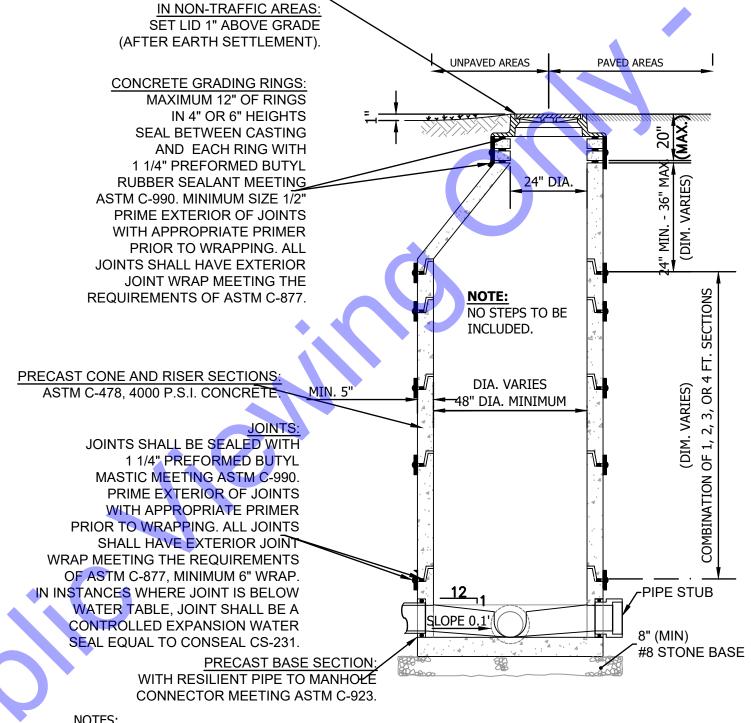
THE STRUCTURE

NOTED.

OTHER LOCATION OF

**UNLESS OTHERWISE** 

## MANHOLE FRAME & COVER: (SEE SPECIFICATIONS) IN TRAFFIC AREAS: SET LID FLUSH WITH FINISHED STREET SURFACE MANDATE OF AREAS: IN MONTE PROFESSION APPEARS: IN MONTE

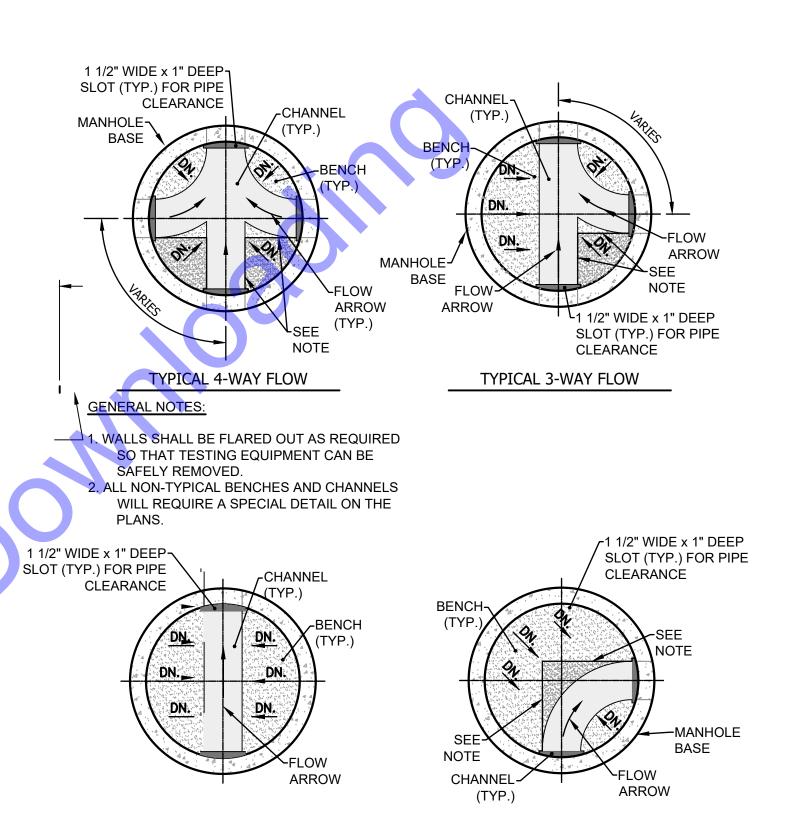


- NOTES:

  1. ALL MANHOLE LIDS SHALL BEAR "SANITARY SEWER" MOLDED INTO THE EXTERIOR SURFACE.
- ALL PRECAST CONCRETE SHALL CONTAIN WATERPROOFING ADDITIVE, XYPEX C-1000 RED OR APPROVED EQUAL.
- 3. ALL PRECAST CONCRETE FOR FORCE MAIN RECEIVING MANHOLES AND ALL NEW MANHOLES WITHIN 800 FEET UPSTREAM OR DOWNSTREAM OF THE RECEIVING MANHOLE SHALL CONTAIN ANTI-CORROSION ADDITIVE, CONSHIELD OR EQUIVALENT.
- 4. FOR ALL MANHOLES 5' OR LESS IN DEPTH PROVIDE FLAT TOP IN LIEU OF ECCENTRIC CONE IN ACCORDANCE WITH ASTM C-478.
- 5. ALL STRUCTURES SHALL BE PROVIDED WITH ONE 6" CONCRETE RISER RING TO BRING STRUCTURE TO GRADE TO ALLOW FOR ANY ADJUSTMENT TO TAKE PLACE.
- 5. WHEN AN EXISTING SEWER MAIN IS REQUIRED TO BE RECONNECTED TO A NEW MANHOLE, A MINIMUM OF EIGHT (8) FT. OF EXISTING SEWER MAIN SHALL BE REMOVED AND REPLACED WITH NEW SEWER MAIN. NEW SEWER TO EXISTING SEWER CONNECTION SHALL BE MADE WITH A SOLID SLEEVE COUPLING.

#### STANDARD MANHOLE DETAIL

NOT TO SCALE



#### STANDARD MANHOLE BENCHES AND CHANNELS

PAVED AREAS **∠PAVEMENT** UNPAVED AREAS INSTALL BACKFILL-UNIFORMLY AROUND **EXTERIOR OF** MANHOLE -BACKFILL AND COMPACTION PER **ROADWAY JURISDICTION** REQUIREMENTS ACCEPTABLE EXCAVATED-MATERIAL, UNIFORM IN NATURE. FREE FROM ORGANIC MATERIAL AND **MANHOLE** STONES LARGER THAN 2 (SEE MANHOLE INCH, COMPACTED AS DETAILS) SPECIFIED

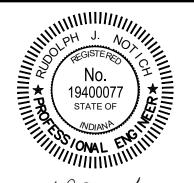
#### STANDARD MANHOLE BACKFILL DETAIL

No.5 OR No.8 STONE BASE

NOT TO SCALE

NOT TO SCALE





gnature Total 10-2-202

WARRICK COUNTY, INDIANA
OWERS PLACE SANITARY SEWER
UTILITY IMPROVEMENTS

and Submittal / Revision

A Submittal / Revision

By Date

Cozos By Commonwealth

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(ITS THE LAW)

Drawing No:

10-2-2025 | S20076 | AS SHOW

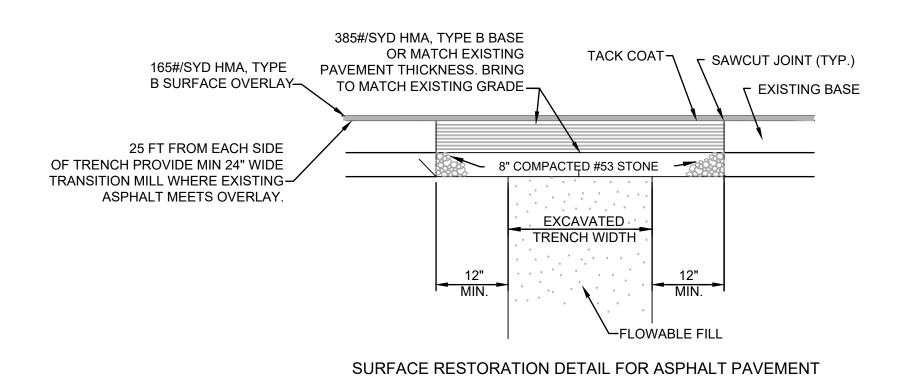
**MISCELLANEOUS** 

**DETAILS II** 

MD2
Sheet: 8 OF

M. ZNEWRI IRGHISONOZE DOWERS DI ACE SSIREI OCATIONIOE CADIA CI IRE

NOT TO SCALE



NOT TO SCALE

- WITH COMPLETE OVERLAY - (KIMBERLY LANE)

TO COVER DISTURBED AREA

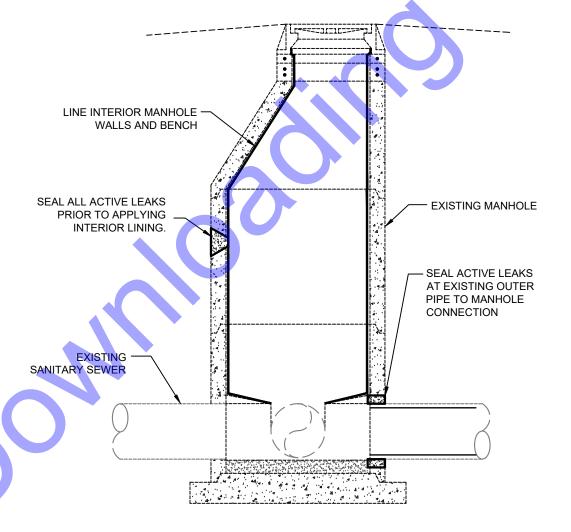
MULCHED SEEDING OR
NURSERY SODDING
(AS SPECIFIED)

EXISTING
SURFACE

EXCAVATED
TRENCH WIDTH

SELECTED EXCAVATED
MATERIAL

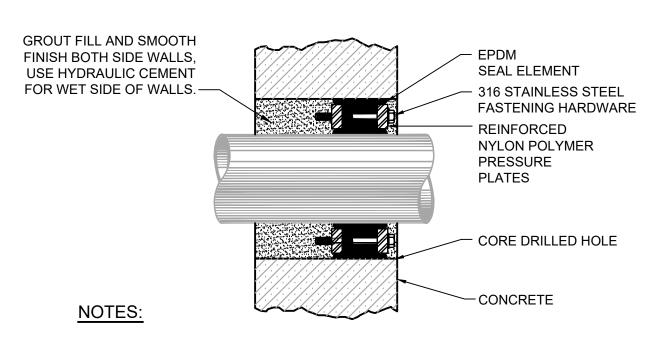
SURFACE RESTORATION DETAIL
FOR GRASS AREAS
NOT TO SCALE



#### **GENERAL NOTES**

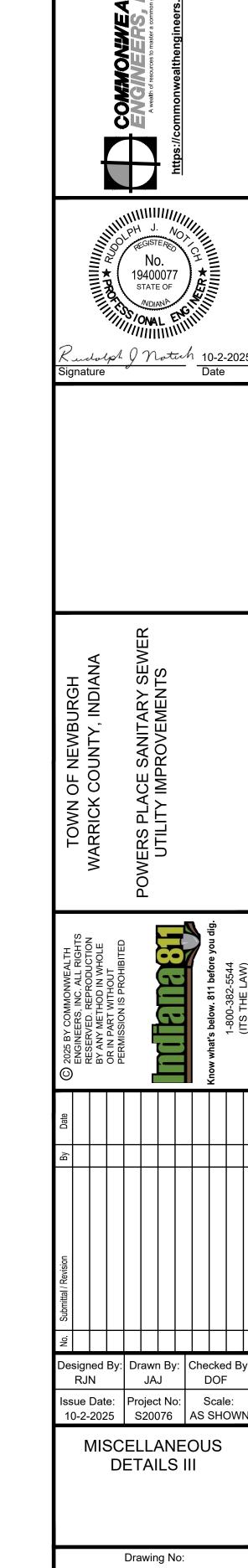
- 1. MANHOLE POINT REPAIR INCLUDES REPAIRING LEAKS IN THE STRUCTURE.
- 2. MANHOLE LINING INCLUDES SEALING ANY ACTIVE LEAKS AND LINING THE MANHOLE, COST PER VERTICAL LINEAR FOOT.
- 3. MANHOLE INVERT OPENING REPAIR INCLUDES REPAIRING LEAKS AT THE EXISTING PIPE PENETRATIONS INTO THE MANHOLE.

EXISTING MANHOLE SEALING/LINING DETAIL NOT TO SCALE



- 1. ELECTROMETRIC ELEMENT AND LINK-SEAL APPARATUS REQUIRED COMPATIBLE FOR HIGH TEMPERATURE APPLICATIONS FOR ALL LINES
- 2. <u>ALL</u> WALL PENETRATIONS (EXISTING WALLS) CONVEYING PIPE SHALL UTILIZE A LINK-SEAL EQUIVALENT, SHALL BE GROUTED SMOOTH, AND SHALL HAVE A BONDING AGENT APPLIED.

LINK SEAL WITH CORE DRILLED HOLE DETAIL NOT TO SCALE



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**MD3**Sheet: 9 OF 9