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9	YARD DRAIN PLAN & PROFILE
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ELM STREET DRAIN RECONSTRUCTION







TOWN OF PENDLETON



Project Description:

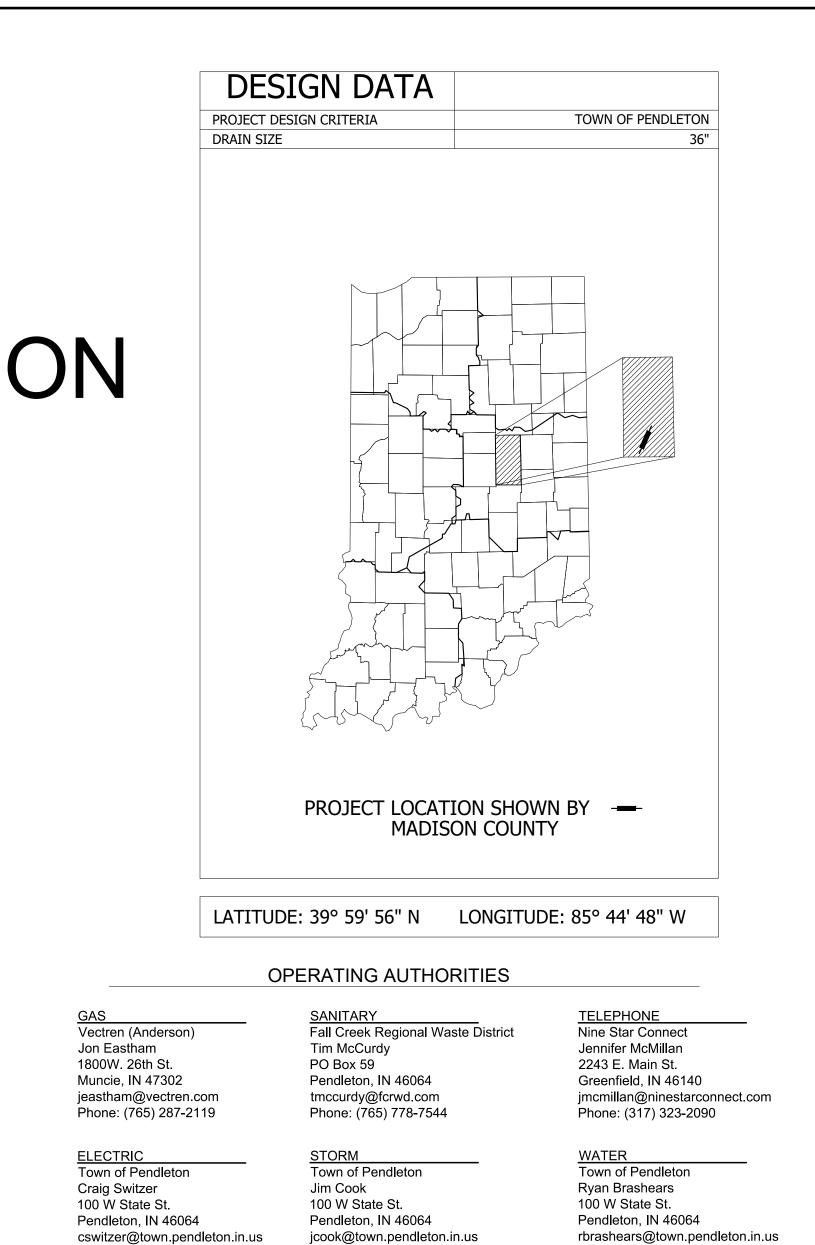
Replacing Existing Drain Starting on the North Side of W Elm Street following the Existing Drain and Crossing S Main Street in Pendleton in Section 21, T-18-N, R-7-E, Fall Creek Township, Madison County, Indiana.



CONVOX RUCAP PLANS PREPARED BY:

BANNING ENGINEERING INC.

CERTIFIED BY: __________MARK J. BUTLER, P.E.



Phone: (765) 208-0097

FIBER Frontier Steve Coslow Noblesville, IN steve.costlow@ftr.com Phone: (317) 984-9010

Phone: (765) 208-0104

BID SET

ACCEPTED BY:

317-707-3700 PHONE NUMBER

<u>1/8/24</u> DATE

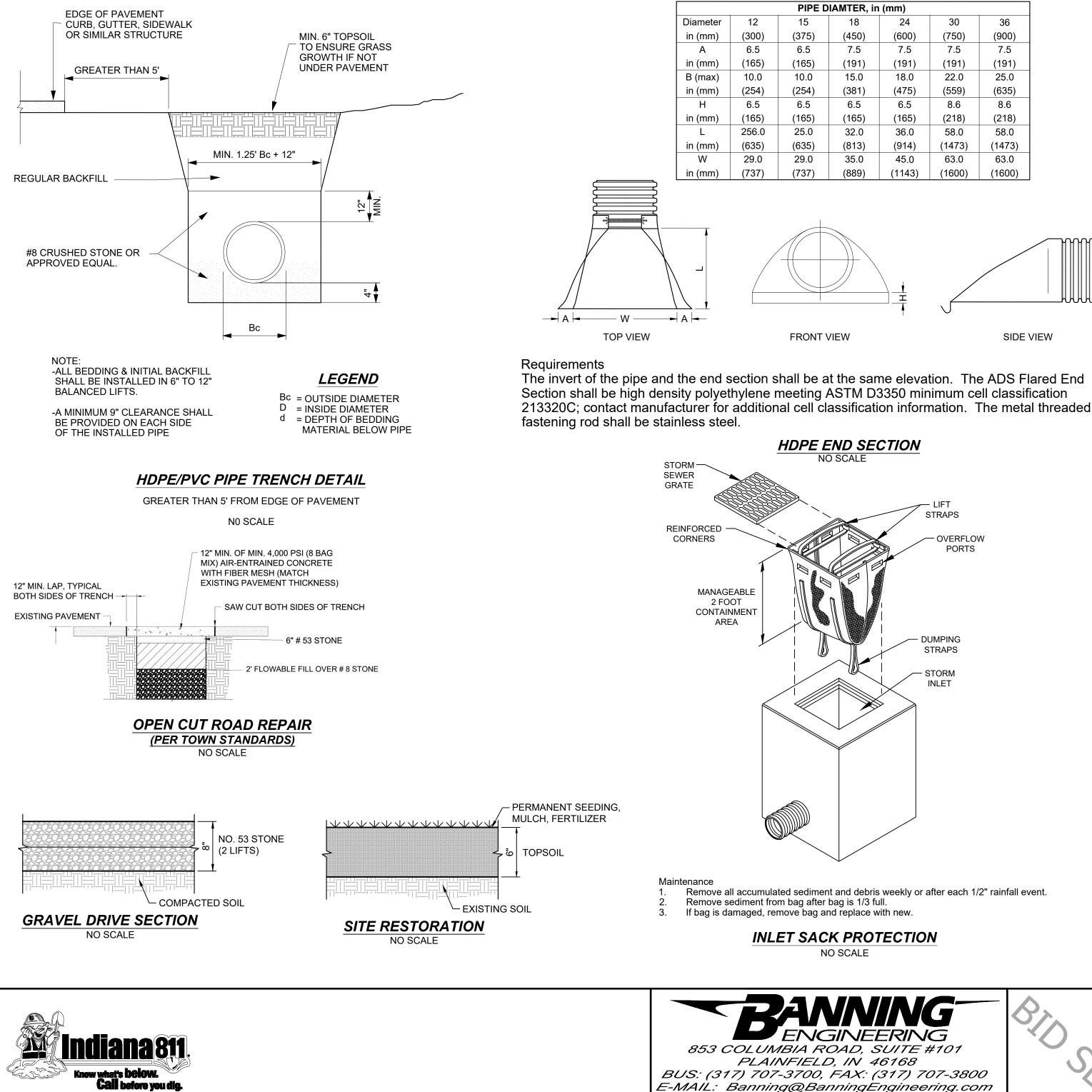
	BRIDGE FILE						
	N/A						
	DESIGNATION						
	N/A						
SURVEY BOOK	SHEET						
N/A	1 of 10						
CONTRACT	PROJECT						
N/A	22402						

Phone: (765) 778-2173

GENERAL NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS INCLUDED IN THE BID PACKAGE.

- 2. DRAIN RECONSTRUCTION LIMITS ARE AS SHOWN ON THE PLANS UNLESS OTHERWISE SPECIFIED.
- 3. MAINTENANCE OF TRAFFIC (MOT) IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ACCESS TO RESIDENCES AND BUSINESSES DURING THE ENTIRE CONSTRUCTION PERIOD. MOT DEVICES SHALL CONFORM TO THE GUIDELINES SHOWN IN THE LATEST EDITION OF THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (IN MUTCD). MOT LANE CLOSURE METHODS AND PROCEDURES ARE SUBJECT TO REVIEW AND APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
- 4. THE WORK IS MAINLY LOCATED IN RESIDENTIAL AREAS. THE CONTRACTOR SHALL NOTIFY ALL RESIDENTS ADJACENT TO THE WORK SITE IN WRITING NO LESS THAN 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
- 5. CONTRACTOR IS TO MINIMIZE AREA OF IMPACT AS BEST AS POSSIBLE.
- 6. AT THE END OF EACH DAY OR WHEN THE WORK IS TO BE DISCONTINUED FOR A PERIOD OF TIME THE CONTRACTOR SHALL INSTALL A TAPERED JOINT AT THE END OF PAVING TO ALLOW TRAFFIC A TRANSITION.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AN HMA MIX DESIGN NO LATER THAN 10 DAYS PRIOR TO
- 8. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN CONSTRUCTION AREAS.
- CONTRACTOR TO RESTORE SITE CONDITIONS IN CONSTRUCTION AREA AFTER WORK IS COMPLETED
- 10. CONTRACTOR SHALL NOTIFY OWNER PRIOR TO THE WORK BEING COMPLETED IF A CONTRACT QUANTITY IS NOT SUFFICIENT TO PERFORM THE WORK. CONTRACT QUANTITY OVERAGES WILL NOT BE PAID FOR WITHOUT PRIOR WRITTEN NOTIFICATION TO THE OWNER.
- 11. IF EXISTING BLIND TIES ARE ENCOUNTERED, CONTRACTOR TO RE-ESTABLISH TIE-INS.
- 12. AT THE END OF EACH WORK DAY OR WHEN THE WORK IS TO BE DISCONTINUED FOR A PERIOD OF TIME, THE CONTRACTOR SHALL SECURE AREAS OF EXCAVATION WITH CAUTION TAPE, EQUIPMENT, AND SNOW FENCE.
- 13. TREE REMOVAL SHALL BE BETWEEN OCTOBER 31 AND APRIL 1 PER USFW REGULATIONS.
- 14. AREAS OUTSIDE OF LIMITS AS SHOWN IN PLANS THAT ARE DISTURBED WITHOUT PRE-APPROVAL FROM TOWN OR ENGINEER SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR.



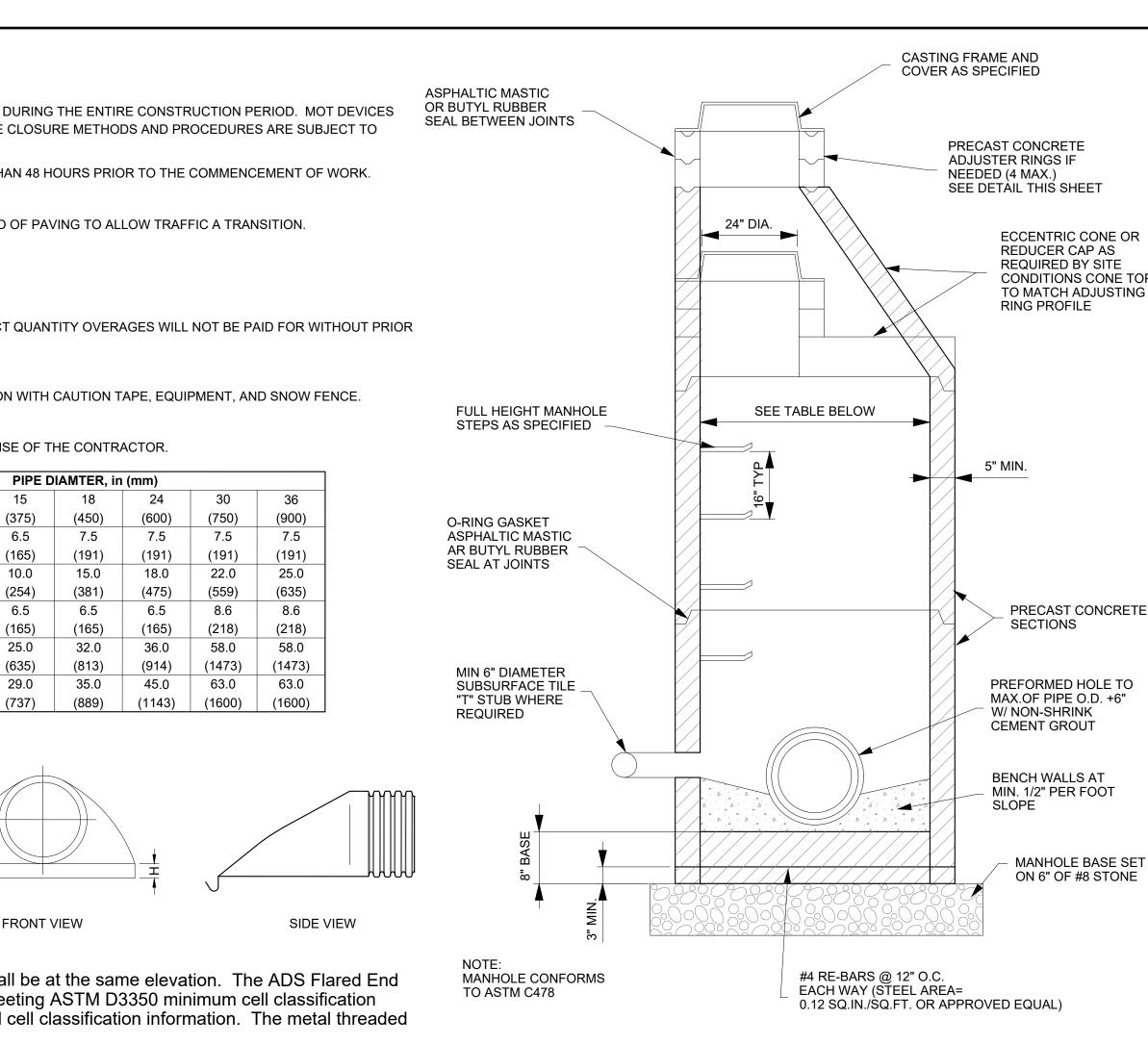


TABLE 404-2

PIPE SIZE

12" - 21"

24"

27" - 30"

33" - 36"

BANNING ENGINEERING	BID	RECOMMENDED FOR APPROVAL DESIGN ENGINEER	TOWN OF PENDLETON	HORIZONTAL SCALE	BRIDGE FILE N/A DESIGNATION N/A
853 COLUMBIA ROAD, SUITE #101 PLAINFIELD, IN 46168 BUS: (317) 707-3700, FAX: (317) 707-3800	SA	DESIGNED:PBR1/8/24DRAWN:PBR1/8/24		SURVEY BOOK	SHEET 2 of 10
-MAIL: Banning@BanningEngineering.com WEB: www.BanningEngineering.com		CHECKED: <u>MJB 1/8/24</u> CHECKED: <u>MJB 1/8/24</u>	CKED: MJB 1/8/24 CHECKED: MJB 1/8/24 GENERAL NOTES & DETAILS	CONTRACT N/A	PROJECT 22402

STORM MANHOLE

N0 SCALE

PIPES ENTERING OR

LEAVING AT A 0-45

DEGREE ANGLE

48" DIA.

48" DIA.

60" DIA.

60" DIA.

PIPES ENTERING OR LEAVING AT A 46-90 DEGREE ANGLE

48" DIA.

60" DIA.

60" DIA.

72" DIA.

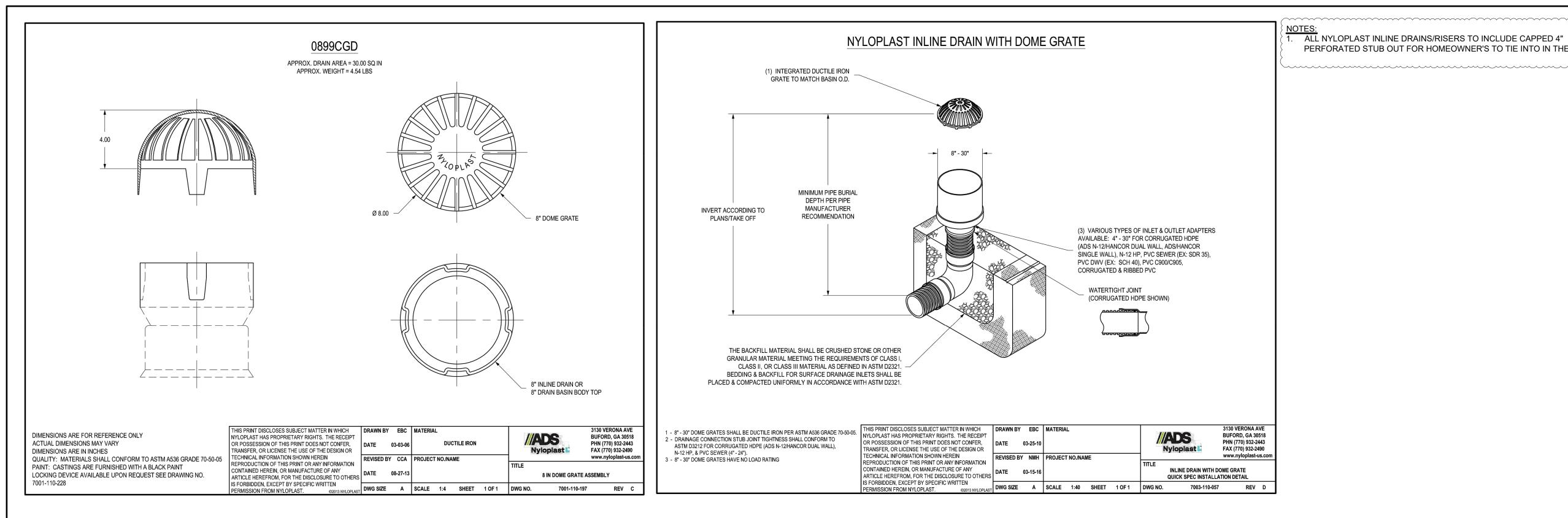
	REVISIONS	
NUMBER	DESCRIPTION	DATE
1	UPDATED YARD DRAIN AND STORM STRUCTURE LAYOUTS/DETAILS; ADDED MORE INFORMATION ABOUT RETAINING WALL; UPDATED CONSTRUCTION EXTENTS; UPDATED NOTE FOR YARD DRAIN DETAIL	1/25/202

	Practice	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
	Permanent Seeding			A			*////	/\///*		— */I/⊣				
														-
	Dormant	В	>									В		
	Seeding													
	Tomporent			c —	E	>	*////	/\///*	D	;	•			
	Temporary Seeding													
														-
	Sodding			F** ·				*////////*						
														-
	Mulching	G												
B = plu	s 2 tons straw mul - Kentucky Bluegra s 2 tons straw mul - Spring Oats 100	ass 60 lbs lch/acre o	s/acre; or	40 lbs. ta	II Fescue	•	Inspe succe vigore nurse the p	essfully e ous dark plants, l	v and afte stablishe green or egumes,	d. (Chara bluish-gr and gras	acteristics een seec ses we ll	s of a suc llings; un inter-mixe	iform den ed; green	and includ
D =	= Wheat or Rye 15	0 lbs./acr	e.							followin	g growing	g season	according	g to soil te
E =	Annual Ryegrass	s 40 Ibs/ao	cre. (1 lb.	/1000 sq	.ft.)		recommendations. Repair damaged, bare, or sparse areas by filling any gullies, re-fertilizin							
	Sod						over-	or re-see	eding, and	d mulchir	ng.			chosen, s
	= Straw Mulch 2 to						fertility, moisture condition, and mulching; then repair the affected area either by over-seeding or by re-seeding and mulching after re-preparing							
	 Irrigation needed Irrigation needed f 	-	-			er.		eedbed.	ulo to aro		tor coil to	oting to c	lotormino	acidity or
Lim	ne and fertilize to s a rate of 1000 lbs.	site specif	ic soils te	sts or app	oly fertiliz	er	nutrie	nt deficie		lems. (Co	ontact yo) or Coop	
All 2 It mu wit	swales shall be se os. Perennial Derb Ich with one bale o h 5 lbs. of 20-5-5 p erwise.	eeded with y rye, or o of straw p	h 2 lbs. Ao equivalen er 1000 s	delphi blu t per 100 quare fee	iegrass a 0 square et. Fertiliz	feet. e			rtilization ne soil tes				tory stanc	l, do so
•					5	SEED			2T					
						N	IO SCAI	_E						
						\frown								
									\geq					
									\geq					
									\geqslant	50	' Min			
										50	' Min.			
										50	' Min.			
		<u> </u>								50	'Min.			
		<u>Doo</u>				"Min.								*
			2	- 3" Lifts	of #2 St	tone								
			2	- 3" Lifts	of #2 St Geo						Min.			

*Immediately remove mud and sediment tracked or washed onto public roads by brushing or sweeping. Flushing should only be used if the water is conveyed into a sediment trap or basin *Repair any broken road pavement immediately.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE / EXIT
LESS THAN 2 ACRES

NO SCALE





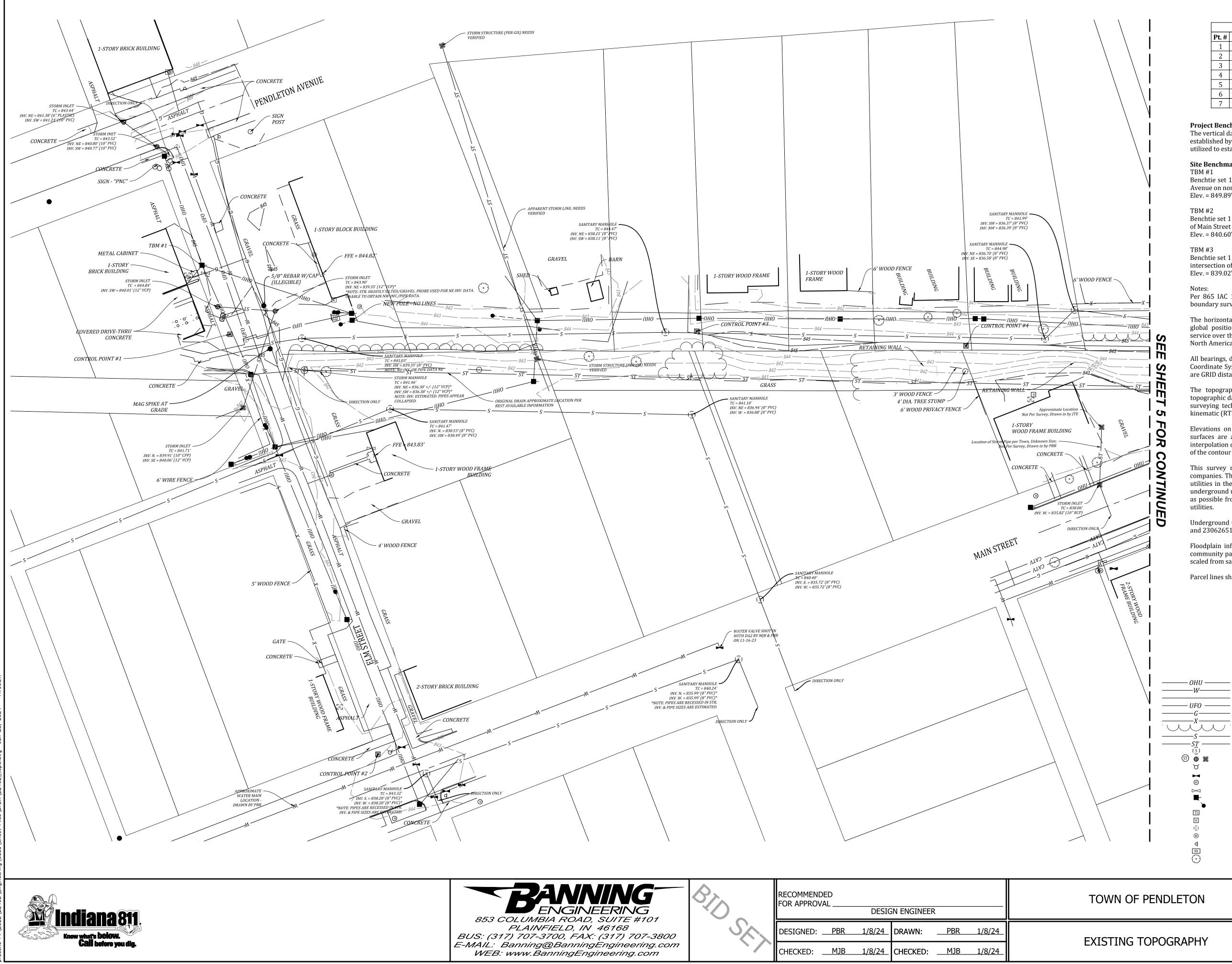


ENGINEERING BIA ROAD, SUITE #101		RECOMMEND FOR APPROV		TOV				
FIELD, IN 46168 3700, FAX: (317) 707-3800	SA	DESIGNED:	PBR	1/8/24	DRAWN:	PBR	1/8/24	GENER
a@BanningEngineering.com anningEngineering.com		CHECKED:	МЈВ	1/8/24	CHECKED:	MJB	1/8/24	GENER

PERFORATED STUB OUT FOR HOMEOWNER'S TO TIE INTO IN THE FUTURE.



	HORIZONTAL SCALE	BRI	DGE F	ILE	
			N/A		
OWN OF PENDLETON	VERTICAL SCALE	DESIGNATION			
		N/A			
	SURVEY BOOK	SHEET			
ERAL NOTES & DETAILS	N/A	3	of	10	
ERAL NUTES & DETAILS	CONTRACT	CONTRACT PROJE		Т	
	N/A	N/A 224			



ENGINEERING MBIA ROAD, SUITE #101		RECOMMENDED FOR APPROVAL					TOWN OF PENDLETON	HORIZONTAL SCALE 1"=30' VERTICAL SCALE	BRIDGE FILE N/A DESIGNATION N/A
INFIELD, IN 46168 7-3700, FAX: (317) 707-3800	S	DESIGNED: <u>PBR</u>	1/8/24	DRAWN:	PBR	1/8/24		SURVEY BOOK N/A	SHEET 4 of 10
ing@BanningEngineering.com v.BanningEngineering.com		CHECKED: <u>MJB</u>	1/8/24	CHECKED:	MJB	1/8/24	EXISTING TOPOGRAPHY	CONTRACT N/A	PROJECT 22402

	Control Point Table										
Pt. #	Northing	Easting	Elev.	Description							
1	1730766.121	305819.777	845.26	Mag nail							
2	1730772.382	305529.197	844.27	5/8" Rebar w/Banning Eng. Control Point cap							
3	1730480.306	305714.294	844.90	5/8" Rebar w/Banning Eng. Control Point cap							
4	1730319.256	305643.289	845.32	5/8" Rebar w/Banning Eng. Control Point cap							
5	1730184.555	305591.840	846.05	5/8" Rebar w/Banning Eng. Control Point cap							
6	1730114.879	305492.692	839.24	5/8" Rebar w/Banning Eng. Control Point cap							
7	1729786.923	305439.309	840.25	5/8" Rebar w/Banning Eng. Control Point cap							

Project Benchmark

The vertical datum for this site was based upon North American Vertical Datum of 1988 (NAVD 88) and established by an OPUS solution on Control Point #1. Differential leveling from Control Point #1 was utilized to establish the elevations of the remaining control points for this survey.

Site Benchmarks

Benchtie set 1 foot above grade in southwest face of first power pole (no number) west of Pendleton Avenue on north side of Elm Street. Elev. = 849.89' (NAVD 88)

Benchtie set 1 foot above grade in west face of power pole (no number) located along east right-of-way of Main Street at the intersection of Main Street and Tile Street. Elev. = 840.60' (NAVD 88)

Benchtie set 1 foot above grade in east face of power pole located on the west side of Main Street at the intersection of Main Street and Madison Avenue. Elev. = 839.02' (NAVD 88)

Per 865 IAC 1-12-12 this drawing is not intended to be represented as a retracement or original boundary survey, a route survey, or a Surveyor Location Report.

The horizontal data shown on this exhibit is based upon standard radial survey techniques and by global positioning equipment, utilizing the VRS Network, a real-time kinematic (RTK) correction service over the internet. The coordinate values shown are in Indiana State Plane East Zone on the 1983 North American Datum.

All bearings, distances and coordinates are referenced to the Indiana State Plane East Zone (NAD 83) Coordinate System. The Combined Scale Factor for this project is 1.000000. Distances shown hereon are GRID distances.

The topographic information shown hereon was obtained in the field during July 2023. The topographic data was gathered using a robotic total station and data collector applying standard radial surveying techniques and by global positioning equipment, utilizing the VRS Network, a real-time kinematic (RTK) correction service over the internet.

Elevations on hard surfaces or structures are accurate to within 0.05 feet, elevations on natural surfaces are accurate to within 0.15 feet. The contours shown hereon were plotted based upon interpolation of spot elevations and other topographic information and are accurate to within one half of the contour interval.

This survey reflects above ground indications of utilities and information available from utility companies. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated, although they are located as accurately as possible from the information available. The surveyor has not physically located the underground

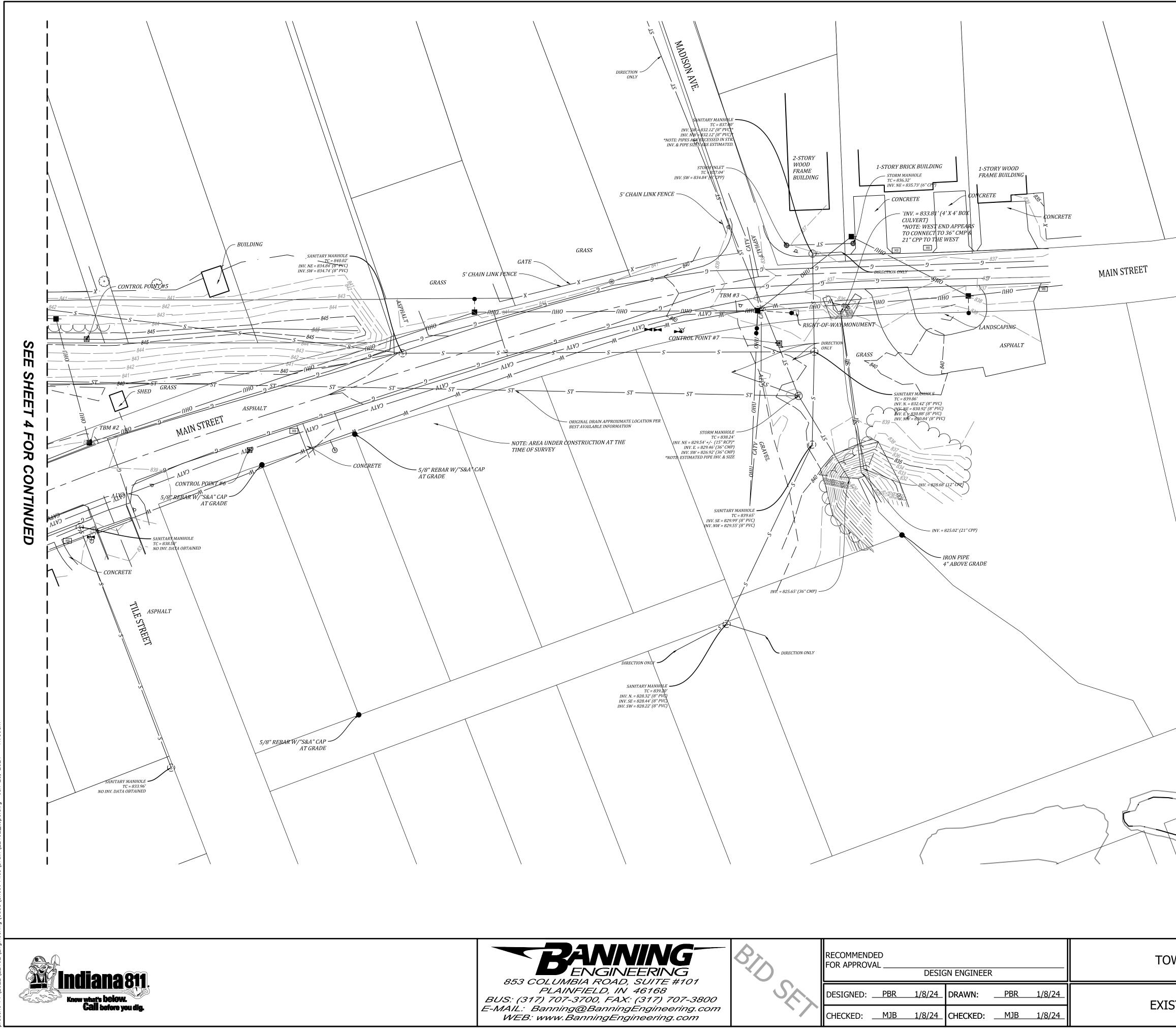
Underground utilities shown per Indiana 811 ticket numbers 2306264572, 2306264617, 2306264809 and 2306265126.

Floodplain information shown per Flood Insurance Rate Map (FIRM) for Madison County, Indiana, community panel number 18095C0326E revised June 9, 2014. The limits of the floodplain is shown as scaled from said firm and is subject to map scale uncertainty.

Parcel lines shown per available online GIS mapping.

LEGEND OVERHEAD UTILITY LINES WATER LINE UNDERGROUND CABLE TV LINE UNDERGROUND FIBER OPTIC LINE GAS LINE FENCE TREE LINE SANITARY SEWER LINE STORM SEWER LINE SANITARY SEWER STRUCTURE STORM SEWER STRUCTURE FIRE HYDRANT WATER VALVE WATER METER GAS VALVE UTILITY POLE **GUY ANCHOR** TELEPHONE SPLICE BOX WATER WELL COMMUNICATIONS MANHOLE SEWER CLEAN-OUT SIGN MAIL BOX TREE





ENGINEERING		RECOMMEND FOR APPROV		TOW				
NBIA ROAD, SUITE #101 NFIELD, IN 46168 7-3700, FAX: (317) 707-3800	SA	DESIGNED:	PBR	1/8/24	DRAWN:	PBR	1/8/24	EXIST
ng@BanningEngineering.com BanningEngineering.com		CHECKED:	МЈВ	1/8/24	CHECKED:	MJB	1/8/24	EXIST

	Control Point Table										
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2	1730772.382	305529.197	844.27	5/8" Rebar w/Banning Eng. Control Point cap							
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Site Benchmarks TBM #1

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TBM #2

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TBM #3

Benchtie set 1 foot above grade in east face of power pole located on the west side of Main Street at the intersection of Main Street and Madison Avenue. Elev. = 839.02' (NAVD 88)

Notes:

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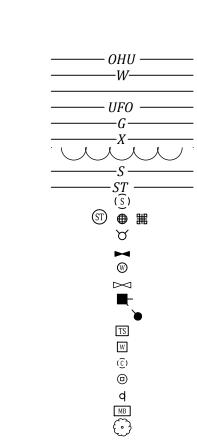
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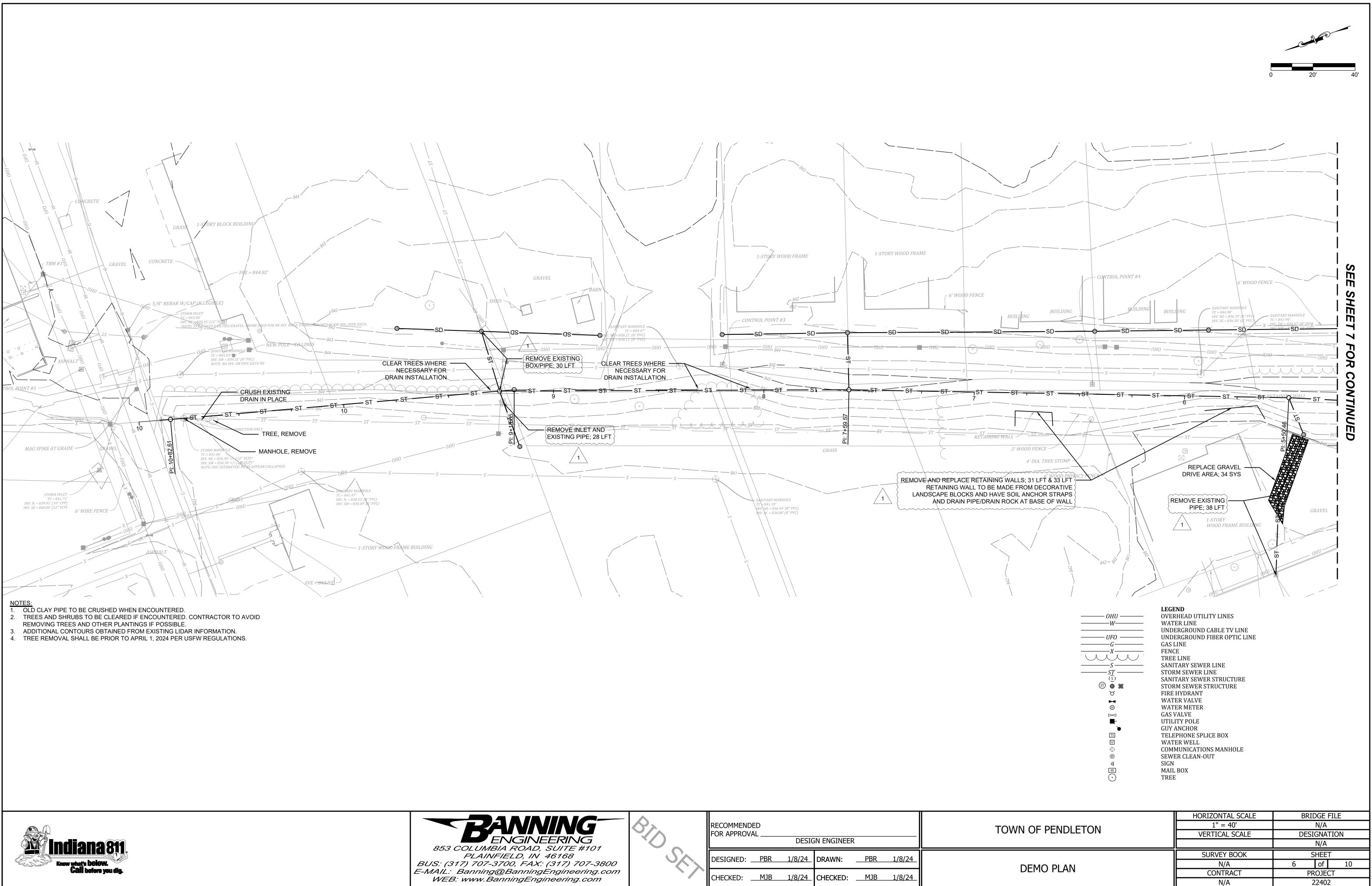
Parcel lines shown per available online GIS mapping.



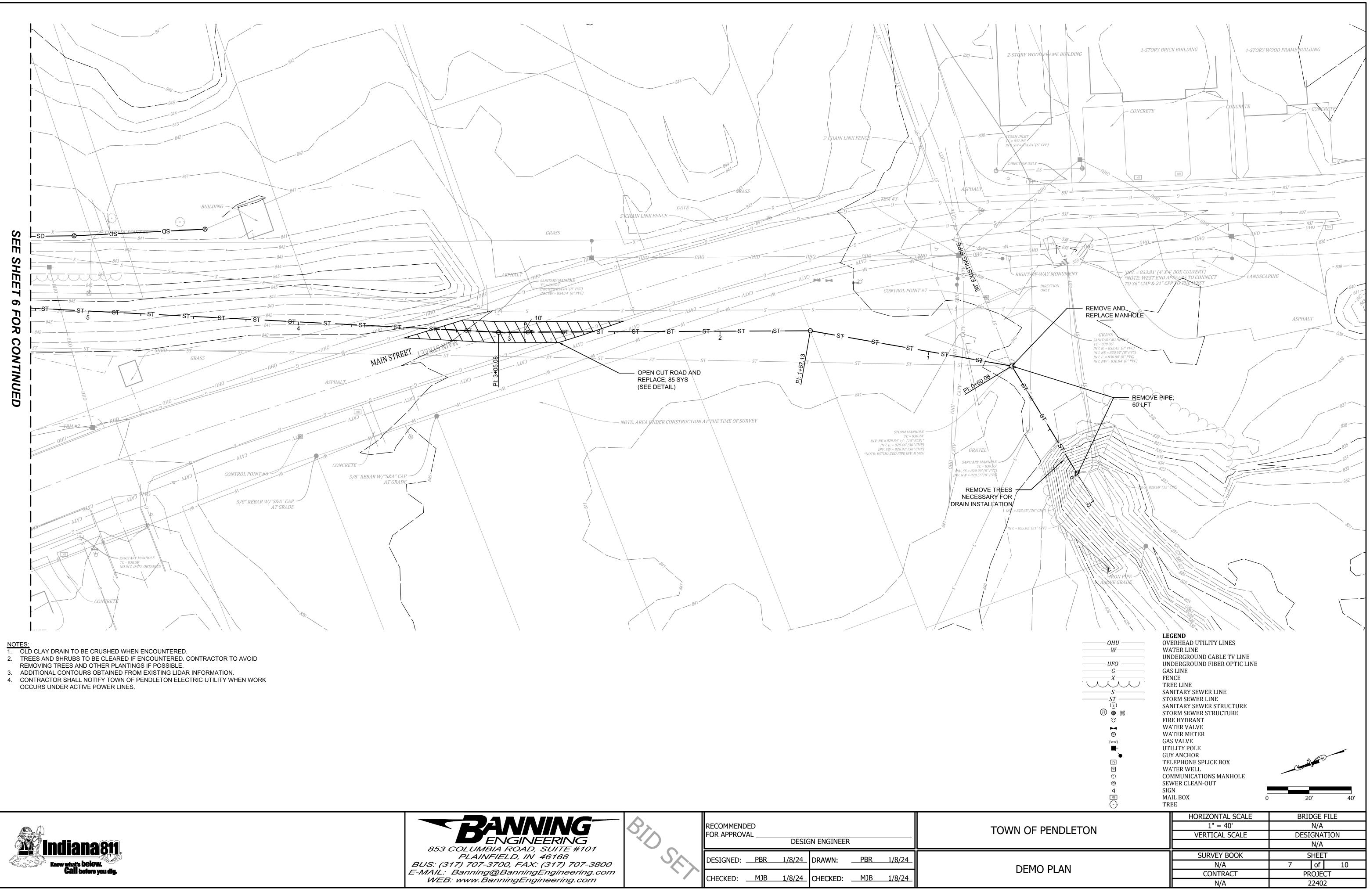
LEGEND OVERHEAD UTILITY LINES WATER LINE UNDERGROUND CABLE TV LINE UNDERGROUND FIBER OPTIC LINE GAS LINE FENCE TREE LINE SANITARY SEWER LINE STORM SEWER LINE SANITARY SEWER STRUCTURE STORM SEWER STRUCTURE FIRE HYDRANT WATER VALVE WATER METER GAS VALVE UTILITY POLE GUY ANCHOR **TELEPHONE SPLICE BOX** WATER WELL COMMUNICATIONS MANHOLE SEWER CLEAN-OUT SIGN MAIL BOX TREE



HORIZONTAL SCALE BRIDGE FILE 1"=30' N/A WN OF PENDLETON VERTICAL SCALE DESIGNATION N/A SHEET SURVEY BOOK N/A of 10 5 STING TOPOGRAPHY CONTRACT PROJECT N/A 22402



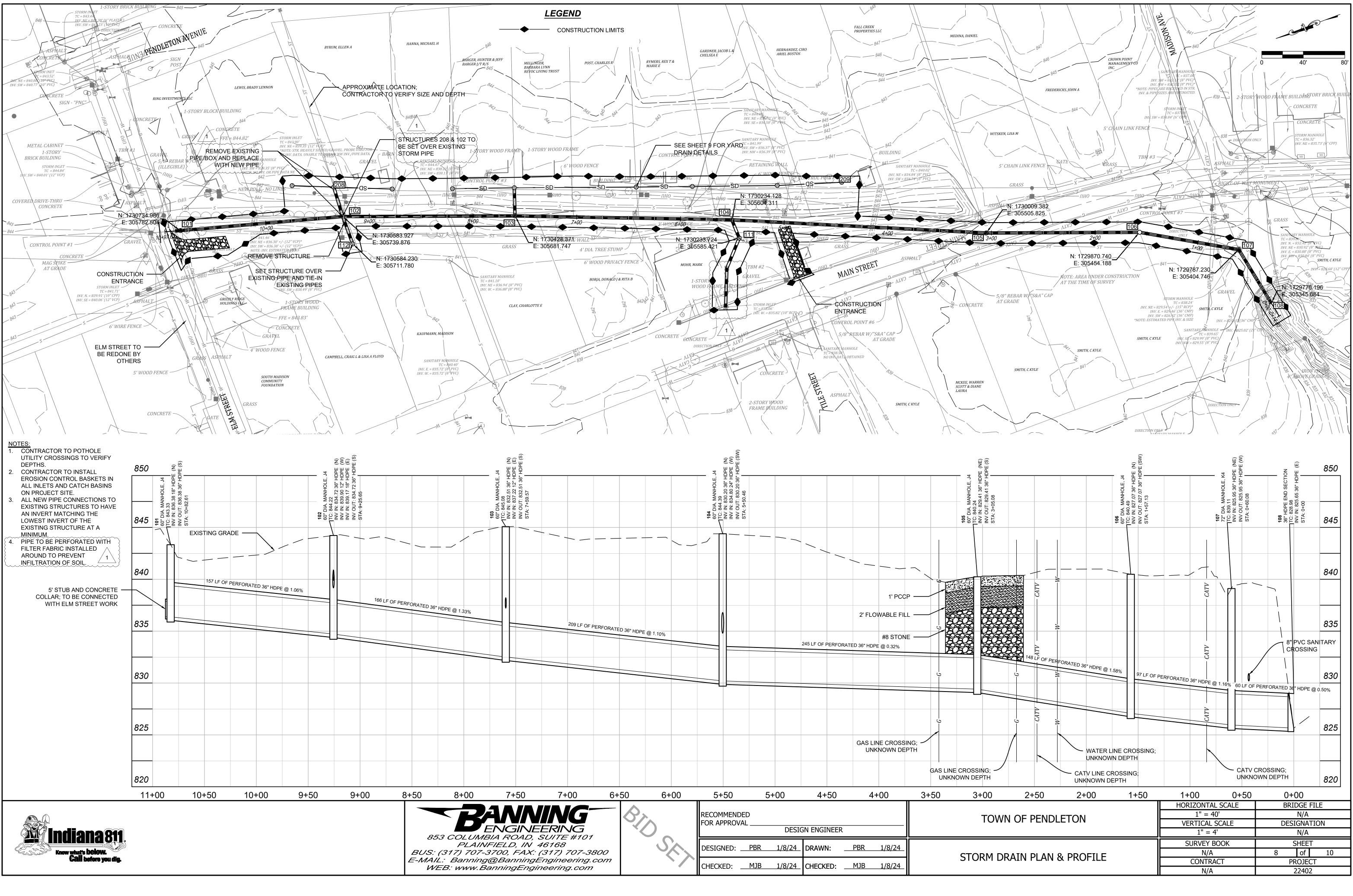
ENGINEERING ABIA ROAD, SUITE #101		RECOMMENDED FOR APPROVAL	DESI	TOW			
NFIELD, IN 46168 7-3700, FAX: (317) 707-3800	SA	DESIGNED:	PBR <u>1/8/24</u>	DRAWN:	PBR	1/8/24	
ng@BanningEngineering.com BanningEngineering.com		CHECKED:	<u>MJB 1/8/24</u>	CHECKED:	MJB	1/8/24	



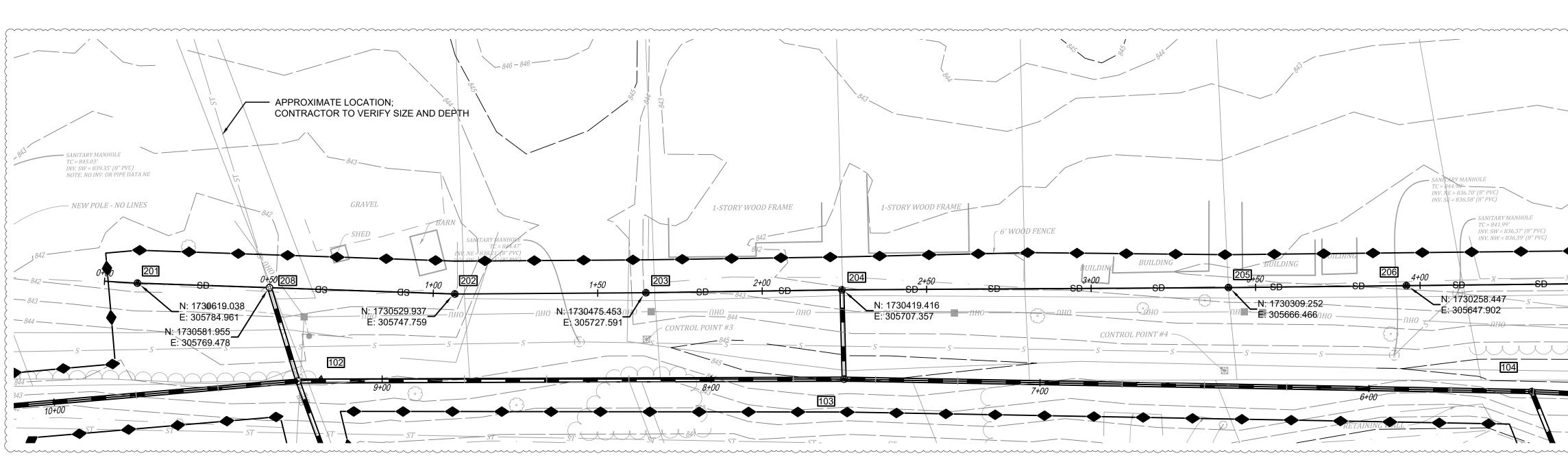


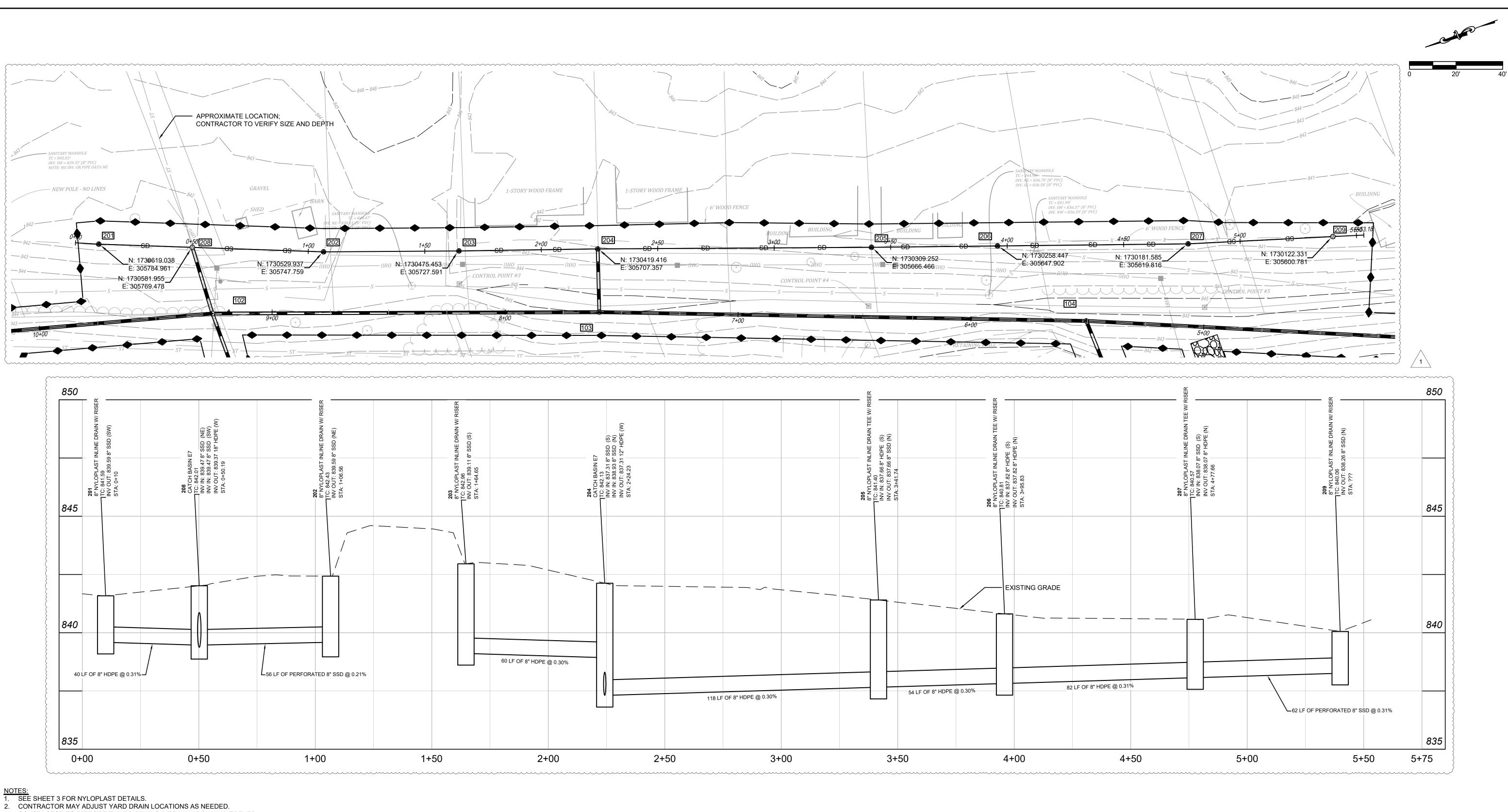


ENGINEERING ABIA ROAD, SUITE #101		RECOMMENDE FOR APPROVA		TOWI				
NFIELD, IN 46168 7-3700, FAX: (317) 707-3800	SA	DESIGNED: _	PBR	1/8/24	DRAWN:	PBR	1/8/24	
ng@BanningEngineering.com BanningEngineering.com		CHECKED: _	MJB	1/8/24	CHECKED:	<u>MJB</u>	1/8/24	



ne P: \2022\22402\Engineering\Cadd\Sheet Files\Drain\22402_storm_pp.dwg Jan 25, 2024 — 11:06ar





2. CONTRACTOR MAY ADJUST YARD DRAIN LOCATIONS AS NEEDED.

CONTRACTOR TO DIRECT TIE YARD DRAINS INTO MAIN DRAIN WHEREVER THERE IS A CONFLICT THAT PREVENTS CONNECTION TO OTHER YARD

DRAINS. PIPE TO BE PERFORATED WITH FILTER FABRIC INSTALLED AROUND TO PREVENT INFILTRATION OF SOIL.





AND A CONTRACT A CONTR		RECOMMENDED FOR APPROVAL	TOWN OF PENDLETON	HORIZONTAL SCALE 1"=20' VERTICAL SCALE 1"=2'	BRIDGE FILE N/A DESIGNATION N/A	
		DESIGNED:PBR1/8/24DRAWN:PBR1/8/24		SURVEY BOOK N/A	SHEET 9 of 10	
		CHECKED: <u>MJB 1/8/24</u> CHECKED: <u>MJB 1/8/24</u>	YARD DRAIN PLAN & PROFILE	CONTRACT N/A	PROJECT 22402	

			STRUCTURE DATA TABLE	: Elm Str	Elm Street Drain						PIPE DATA TABLE: Elm Street Drain			
Str. No.	Str. Type	Top of Casting	Casting Type	INV. (in)	Pipe Size (in)	Pipe Type (in)	INV. (out)	Pipe Size (out)	Pipe Type (out)	Pipe Name	Size	Length	Slope	
101	60" Dia. Manhole, J4	843.33	Neenah R-1714	836.38	18"	HDPE	836.38	36"	HDPE	EXZ2-EXZ1	24"	37.62'	0.53%	
102	60" Dia. Manhole, J4	844.22	Neenah R-1714	834.72 839.90	36" 12"	HDPE HDPE	834.72	36"	HDPE	EXZ1-111	24"	31.43'	0.80%	
102		044.22	Neenan R-17 14	839.90	12	HDPE	034.72			STUB	18"	5.00'	0.00%	
103	60" Dia. Manhole, J4	845.08	Neenah R-1714	832.51 837.22	36" 12"	HDPE HDPE	832.51	36"	HDPE	101-102	36"	156.96'	1.06%	
					36"	HDPE				102-103	36"	166.06'	1.33%	
104	60" Dia. Manhole, J4	844.39	Neenah R-1714	830.20 834.80	24"	HDPE	830.20	36"	HDPE	103-104	36"	209.11'	1.10%	
105	60" Dia. Manhole, J4	840.24	Neenah R-1714	829.41	36"	HDPE	829.41	36"	HDPE	104-105	36"	245.38'	0.32%	
106	60" Dia. Manhole, J4	840.49	Neenah R-1714	827.07	36"	HDPE	827.07	36"	HDPE	105-106	36"	147.95'	1.58%	
107	72" Dia. Manhole, K4	839.11	Neenah R-1714	825.95	36"	HDPE	825.95	36"	HDPE	106-107	36"	97.05'	1.16%	
108	36" HDPE End Section	828.98		825.65	36"	HDPE				107-108	36"	60.08'	0.50%	
111	Catch Basin E7	840.31	Casting Type 7	835.00	24"	HDPE	835.00	24"	HDPE	111-104	24"	18.89'	1.06%	
112	Catch Basin E7	841.25	Casting Type 7				840.00	12"	HDPE	112-102	12"	28.10'	0.36%	
201	8" Nyloplast Inline Drain w/ Riser	841.59	Nyloplast Cast Iron Dome Grate				839.59	8"	SSD	201-208	8"	40.19'	0.31%	
										202-208	8"	56.37'	0.21%	
202	8" Nyloplast Inline Drain w/ Riser	842.43	Nyloplast Cast Iron Dome Grate				839.59	8"	SSD	203-204	8"	59.58'	0.30%	
203	8" Nyloplast Inline Drain w/ Riser	842.96	Nyloplast Cast Iron Dome Grate				839.11	8"	SSD	204-103	12"	27.13'	0.33%	
204	Catch Basin E7	842.13	Casting Type 7	837.31 838.93	8" 8"	SSD SSD	837.31	12"	HDPE	205-204	8"	117.51'	0.30%	
205	8" Nyloplast Inline Drain Tee w/ Riser	841.40	Nyloplast Cast Iron Dome Grate	837.66	8"	SSD	837.66	8"	SSD	206-205	8"	54.09'	0.30%	
206	8" Nyloplast Inline Drain Tee w/ Riser	840.81	Nyloplast Cast Iron Dome Grate	837.82	8"	SSD	837.82	8"	SSD	207-206	8"	81.83'	0.31%	
207	8" Nyloplast Inline Drain Tee w/ Riser	840.57	Nyloplast Cast Iron Dome Grate	838.07	8"	SSD	838.07	8"	SSD	208-102	18"	29.67'	0.67%	
208	Catch Basin E7	842.01	Casting Type 7	839.47 839.47	8" 8"	SSD SSD	839.37	18"	HDPE	209-207	8"	62.24'	0.31%	
209	8" Nyloplast Inline Drain w/ Riser	840.06	Nyloplast Cast Iron Dome Grate				838.26	8"	SSD					

NOTES: 1. SEE SHEET 3 FOR NYLOPLAST DETAILS. 2. ALL MANHOLE AND CATCH BASIN CASTINGS TO BE PRE-STAMPED WITH "CLEAN WATER" MESSAGE.





ENGINEERING		RECOMMENDED FOR APPROVAL				TOWN OF PENDLETON	HORIZONTAL SCALE	BRIDGE FILE N/A DESIGNATION N/A
MBIA ROAD, SUITE #101 INFIELD, IN 46168 7-3700, FAX: (317) 707-3800	S	DESIGNED: <u>PBR 1/8/24</u>	DRAWN:	PBR	1/8/24		SURVEY BOOK N/A	SHEET 10 of 10
ng@BanningEngineering.com BanningEngineering.com		CHECKED: <u>MJB 1/8/24</u>	CHECKED:	MJB	1/8/24	STORM STRUCTURE AND PIPE TABLES	CONTRACT N/A	PROJECT 22402