

ADDENDUM NO. 1
to the
PLANS AND SPECIFICATIONS
for
2023-2 CCMG
STREET AND STORM SEWER IMPROVEMENTS
TOWN OF DALE
SPENCER COUNTY, INDIANA

MEI PROJECT NO. 2023030-02

FEBRUARY 21, 2024

The following items shall amend, clarify, and/or correct plans and/or specifications for the above project and shall take precedence over items in conflict herein:

ITEM NO. 1 - Reference Specifications, ATTACHMENT to FORM 96 (BID FORM), Bid Proposal, Page Nos. 30, 30A, and 30B:

DELETE: Bid Proposal in its entirety.

REPLACE WITH: The bid proposal has been updated and is included with this addendum. Please be sure to submit the updated bid proposal (dated 2-21-2024 at the bottom of the page) with the bid package.

CLARIFICATION: Multiple quantities were revised as a result of plan revisions and responses to questions that were received.

ITEM NO. 2 - Reference Plans, Sheet Nos. 5-8, 10-14, 17, and 20-22.

DELETE: Plan Sheets noted above in their entirety.

REPLACE WITH: Revised Plan Sheets attached with this addendum (Addendum No.1).

CLARIFICATION: Storm sewer alignment was revised on the west side of Main Street to avoid conflict with existing gas main.

Respectfully submitted,

MIDWESTERN ENGINEERS, INC.



Clint W. Roos, P.E.

Sr. Project Engineer

Enclosures

CWR

**BID PROPOSAL
FOR
2023-2 CCMG STREET AND
STORM SEWER IMPROVEMENTS
TOWN OF DALE
SPENCER COUNTY, INDIANA
MEI #2023030-02**

ITEM A: MAIN STREET FROM W MEDCALF ST TO N WASHINGTON ST

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	ESTIMATED UNIT COST	ESTIMATED TOTAL COST
1.	CONSTRUCTION ENGINEERING	1 LS		
2.	MOBILIZATION/DEMobilIZATION	1 LS		
3.	CLEARING OF RIGHT-OF-WAY	1 LS		
4.	STORMWATER POLLUTION PREVENTION PLAN AND EROSION CONTROL	1 LS		
5.	MAINTENANCE OF TRAFFIC	1 LS		
6.	MILLING, 1.5" ASPHALT	6,320 SY		
7.	HMA SURFACE, 1.5", 9.5 MM, TYPE B	521 TON		
8.	HMA SURFACE, 1.5", 9.5 MM, TYPE B (UNDISTRIBUTED QUANTITY)	52 TON		
9.	TACK COAT	6,320 SY		
10.	CURB RAMP, CONCRETE	11 EA.		
11.	REMOVE EX. SIDEWALK	383 SY		
12.	PAVEMENT REMOVAL	338 SY		
13.	NEW 4' CONCRETE SIDEWALK W/ AGGREGATE BASE	387 SY		
14.	CEMENT CONCRETE PAVEMENT FOR DRIVEWAYS	224 SY		
15.	CURB & GUTTER, ROLL CURB, CONCRETE	2,010 LF		
16.	CURB TURNOUT	12 EA		
17.	MANHOLE, TYPE J-3	5 EA		
18.	MANHOLE, TYPE J WITH EJ 7495 Z	2 EA		
19.	MANHOLE, TYPE J WITH EJ 5419 M/Z	1 EA		
20.	INLET, TYPE E-7	3 EA		
21.	INLET, TYPE E-3	4 EA		
22.	INLET, TYPE E WITH EJ 5419 M/Z	2 EA		
23.	INLET A-3	3 EA		
24.	24" x 30" INLET WITH EJ 7495 Z	15 EA		
25.	12" PIPE CATCH BASIN W/ FRAME AND GRATE	10 EA		
26.	PIPE, TYPE 2, CIRCULAR, 30 IN.	438 LF		
27.	PIPE, TYPE 2, CIRCULAR, 24 IN.	275 LF		
28.	PIPE, TYPE 2, CIRCULAR, 18 IN.	176 LF		
29.	PIPE, TYPE 2, CIRCULAR, 12 IN.	874 LF		
30.	PIPE, TYPE 2, CIRCULAR, 4 IN.	11 LF		
31.	CONNECT EX. PIPE TO NEW STRUCTURE	1 EA		

ITEM A: MAIN STREET FROM W MEDCALF ST TO N WASHINGTON ST CONTINUED

32.	CONNECT EX. PIPE TO NEW PIPE	2	EA.	_____	_____
33.	HMA BASE, 5.5", 25.0 MM, TYPE B	134	TON	_____	_____
34.	HMA BASE, 5.5", 25.0 MM, TYPE B (UNDISTRIBUTED QUANTITY)	14	TON	_____	_____
35.	SUBGRADE TREATMENT, TYPE II	986	SY	_____	_____
36.	SODDING	982	SY	_____	_____
37.	STRUCTURE BACKFILL, TYPE II	4,497	CYS	_____	_____
38.	TRANVERSE MARKING, THERMOPLASTIC, STOP LINE, WHITE, 24 IN	144	LF	_____	_____
39.	REMOVAL AND RELOCATION OF EXISTING TRAFFIC CONTROL SIGNS	7	EA	_____	_____

ITEM A: MAIN ST. SUBTOTAL

ITEM B: EAST HAMMOND STREET FROM N MAIN ST TO N WALLACE ST

1.	CONSTRUCTION ENGINEERING	1	LS	_____	_____
2.	MOBILIZATION/DEMOBILIZATION	1	LS	_____	_____
3.	CLEARING OF RIGHT-OF-WAY	1	LS	_____	_____
4.	STORMWATER POLLUTION PREVENTION PLAN AND EROSION CONTROL	1	LS	_____	_____
5.	MAINTENANCE OF TRAFFIC	1	LS	_____	_____
6.	MILLING, 1.5" ASPHALT	715	SY	_____	_____
7.	HMA SURFACE, 1.5", 9.5 MM, TYPE B	62	TON	_____	_____
8.	HMA SURFACE, 1.5", 9.5 MM, TYPE B (UNDISTRIBUTED QUANTITY)	6	TON	_____	_____
9.	TACK COAT	715	SY	_____	_____
10.	CURB & GUTTER, CONCRETE, ROLLED	284	LF	_____	_____
11.	CURB TURNOUT	1	EA	_____	_____
12.	MANHOLE, TYPE K-4	2	EA	_____	_____
13.	MANHOLE, TYPE J-4	1	EA	_____	_____
14.	MANHOLE, TYPE J-3	1	EA	_____	_____
15.	24" x 30" INLET WITH EJ 7495 Z	1	EA	_____	_____
16.	PIPE, TYPE 2, CIRCULAR, 36 IN.	37	LF	_____	_____
17.	PIPE, TYPE 2, CIRCULAR, 30 IN.	264	LF	_____	_____
18.	PIPE, TYPE 2, CIRCULAR, 12 IN.	20	LF	_____	_____
19.	CONNECT EX. PIPE TO NEW STRUCTURE	2	EA	_____	_____
20.	CONNECT NEW PIPE TO EX. STRUCTURE	1	EA	_____	_____
21.	HMA BASE, 5.5", 25.0 MM, TYPE B	204	TON	_____	_____
22.	HMA BASE, 5.5", 25.0 MM, TYPE B (UNDISTRIBUTED QUANTITY)	20	TON	_____	_____
23.	SUBGRADE TREATMENT, TYPE II	189	SY	_____	_____
24.	CEMENT CONCRETE PAVEMENT FOR DRIVEWAYS	52	SY	_____	_____

ITEM B: EAST HAMMOND STREET FROM N MAIN ST TO N WALLACE ST CONTINUED

25.	SODDING	59	SY	_____	_____
26.	STRUCTURE BACKFILL, TYPE II	409	CYS	_____	_____
27.	TRANVERSE MARKING, THERMOPLASTIC, STOP LINE, WHITE, 24 IN	20	LF	_____	_____
28.	REMOVAL AND RELOCATION OF EXISTING TRAFFIC CONTROL SIGNS	1	EA	_____	_____

ITEM B: E HAMMOND ST. SUBTOTAL

SUMMARY OF BIDS

SUBTOTAL ITEM A: MAIN STREET FROM W MEDCALF ST TO N WASHINGTON ST
SUBTOTAL ITEM B: E HAMMOND STREET FROM N MAIN ST TO N WALLACE ST

TOTAL
(Figures)

(Words)

NOTE: THE BASIS OF AWARD MAY CONSIDER ANY COMBINATION OF ITEMS IN THE BASE BID IN THE DETERMINATION OF THE LOWEST RESPONSIBLE AND RESPONSIVE BIDDER.

Respectfully submitted

Address

Signature

Date

Title

License No. (if applicable)

(SEAL) (If BID is by a Corporation)

Owner	Parcel Number
1 Dale Presbyterian Church (USA) Inc.	74-02-17-301-042.000-002
2 Dale Presbyterian Church (USA) Inc.	74-02-17-301-034.000-002
3 Dale Presbyterian Church (USA) Inc.	74-02-17-301-014.000-002
4 Dale Presbyterian Church (USA) Inc.	74-02-17-301-012.000-002
5 Dale Real Estate LLC	74-02-17-402-030.000-002
6 Dale Real Estate LLC	74-02-17-402-029.000-002
7 Dale Real Estate LLC	74-02-17-402-013.000-003
8 Dale Real Estate LLC	74-02-17-402-013.000-002
9 Carol J Terry	74-02-17-103-086.000-002
10 R & C Designs, LLC	74-02-17-204-064.000-002
11 Jose Armando Chavez Carlos	74-02-17-204-061.000-002
12 Justin Adcock	74-02-17-204-058.000-002
13 Donald W & Kathy J Safrig	74-02-17-204-052.000-002
14 Miguel Dubon & Sonia Bonilla	74-02-17-103-073.000-002
15 William J & Pamela R Redmond	74-02-17-103-054.000-002
16 Jerry L & Sara J Bell	74-02-17-103-031.000-002
17 Donald W & Kathy J Safrig	74-02-17-103-080.000-002
18 Chris Community Church of Dale, Inc.	74-02-17-204-053.000-002
19 Chris Community Church of Dale, Inc.	74-02-17-204-041.000-002
20 Gregory A & Michelle A Mauzey	74-02-17-204-033.000-002
21 Cole & Meredith Kline	74-02-17-204-030.000-002
22 Scott Lanman	74-02-17-204-022.000-002
23 Lynn L Brenner	74-02-17-103-056.000-002
24 Tony Sr. & Ladonna Bowman	74-02-17-103-052.000-002
25 Tony Sr. & Regina Bowman	74-02-17-103-045.000-002
	74-02-17-103-021.000-002
26 Erica Sandoval	74-02-17-103-024.000-002
	74-02-17-103-025.000-002
27 Nathan P Brittingham	74-02-17-103-021.001-002
28 Angela J Ayer	74-02-17-204-015.000-002
29 Jose Armando Chavez Carlos & David Chavez	74-02-17-204-007.000-002
30 Matthew T. & Amber N Schaefer	74-02-17-204-006.000-002
31 Adam & Dawn Mix	74-02-17-201-033.000-002
32 Michael A & Mary S Gogel	74-02-17-201-023.000-002
33 Cody L Luffert & Ashley A McClure	74-02-17-201-028.000-002
34 Joseph A Bolin	74-02-17-201-028.000-002
35 Mike's Auto Sales, LLC	74-02-17-201-022.000-002
36 Mike's Auto Sales, LLC	74-02-17-201-021.000-002
37 Nathan P Brittingham	74-02-17-103-008.000-002
38 Michael S & Kristina L Foster	74-02-17-103-008.000-002
39 Mary S Becher Irrevocable Trust	74-02-17-103-004.000-002
40 Brian J & Becky R Sherman	74-02-17-103-001.000-002
41 Town of Dale	74-02-17-100-12.000-002
42 Tempel Land & Livestock, LLC	74-02-17-100-007.002-002
43 Tempel Land & Livestock, LLC	74-02-17-100-007.012-002
44 Tempel Land & Livestock, LLC	74-02-17-100-007.003-002
45 Aaron R & Hannah R Fuller	74-02-17-201-020.000-002
46 Janice L Thompson	74-02-17-201-018.000-002
47 Thomas L & Ladonna Myers	74-02-17-201-019.000-002
48 Superior Ag Resources Cooperative, Inc.	74-02-17-201-003.000-002



PLAT No. 1

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MAIN STREET AND HAMMOND STREET
TOWN OF DALE
SPENCER COUNTY, INDIANA

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2-21-2024

C. W. ROSS REGISTERED PROFESSIONAL ENGINEER
No. PE11300241
STATE OF INDIANA
Clint W. Ross
2/1/2024

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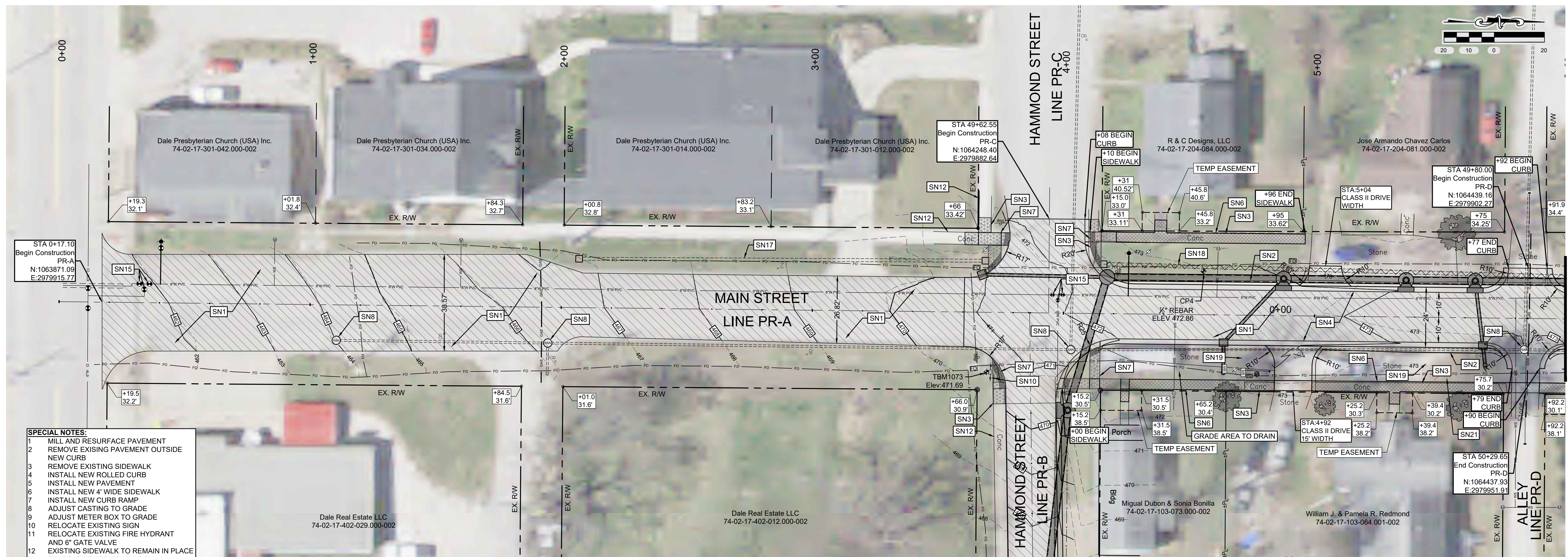
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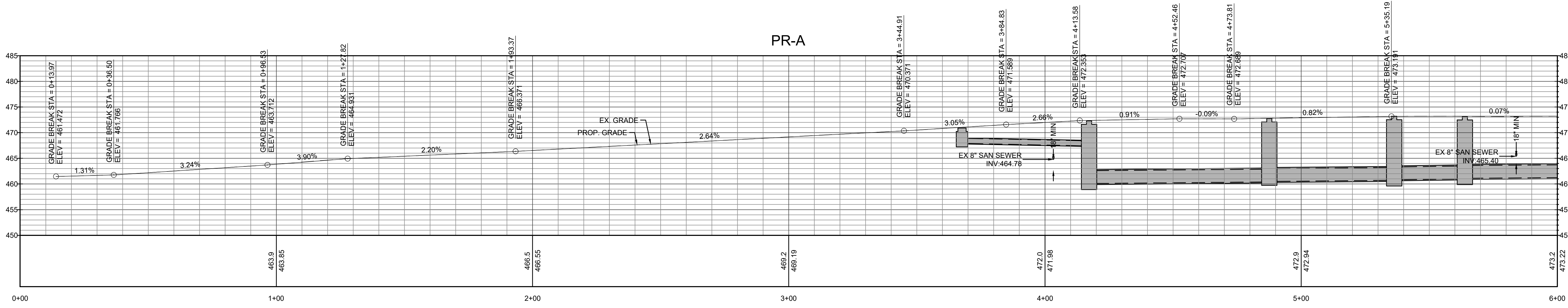
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- SPECIAL NOTES:**
- MILL AND RESURFACE PAVEMENT
 - REMOVE EXISTING PAVEMENT OUTSIDE NEW CURB
 - REMOVE EXISTING SIDEWALK
 - INSTALL NEW ROLLED CURB
 - INSTALL NEW PAVEMENT
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NOTE:
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HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=10'

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CLINT W. ROOS
REGISTERED PROFESSIONAL ENGINEER
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STATE OF INDIANA
Clint W. Roos
2/1/2024

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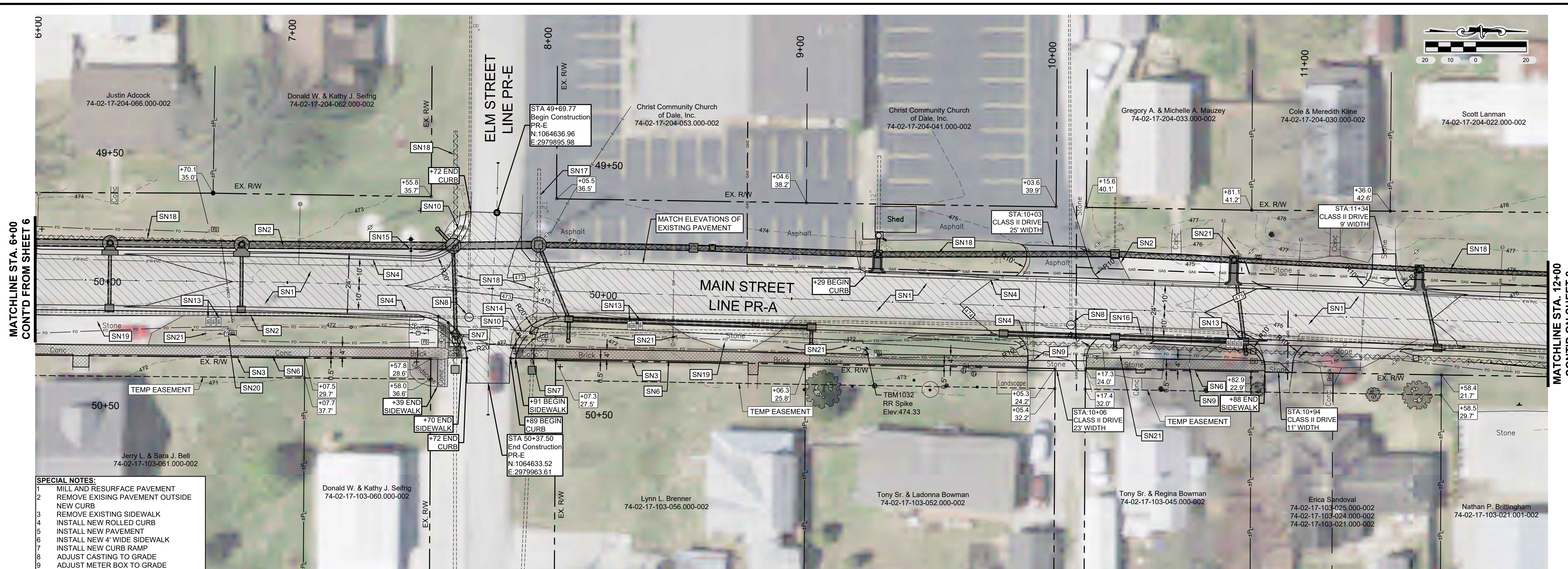
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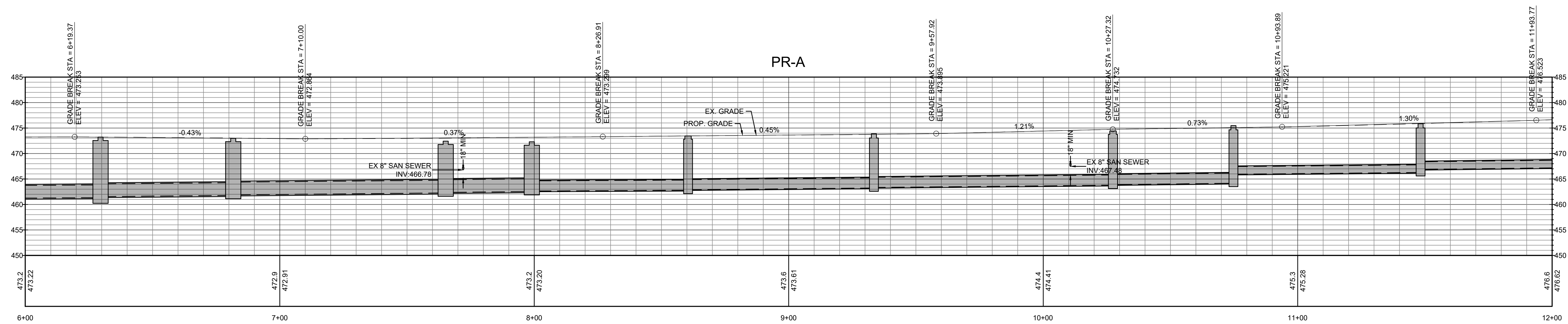


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HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=10'

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Clint W. Rogers
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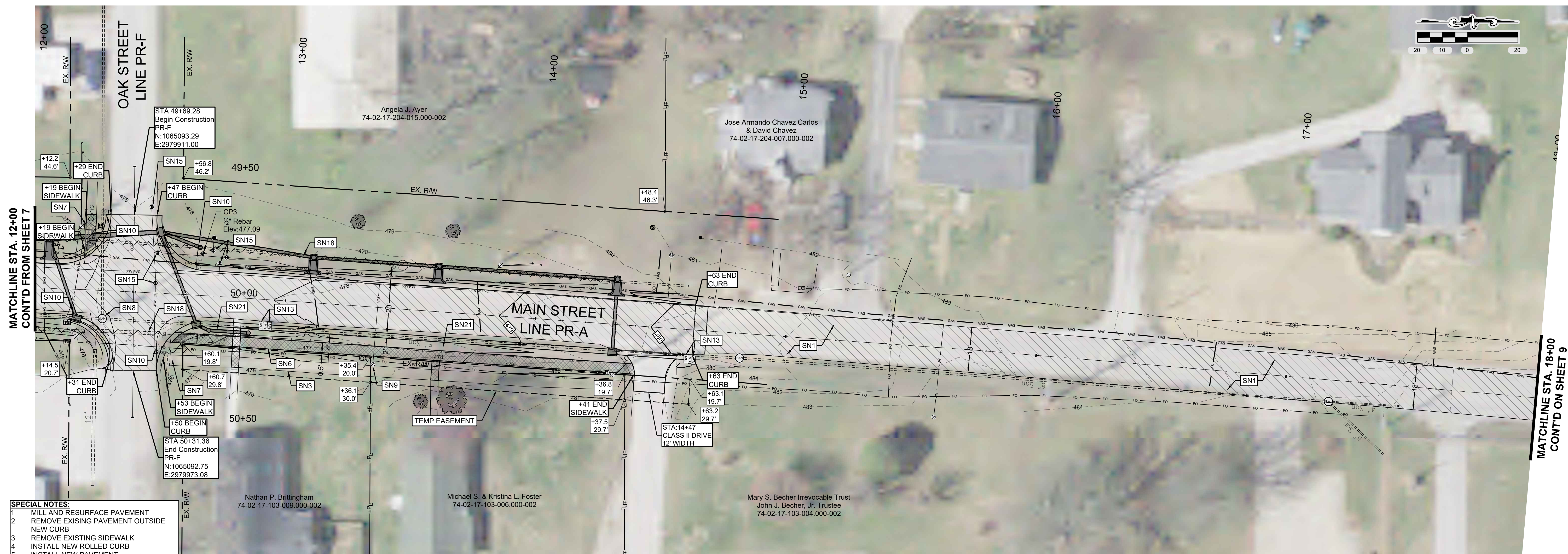
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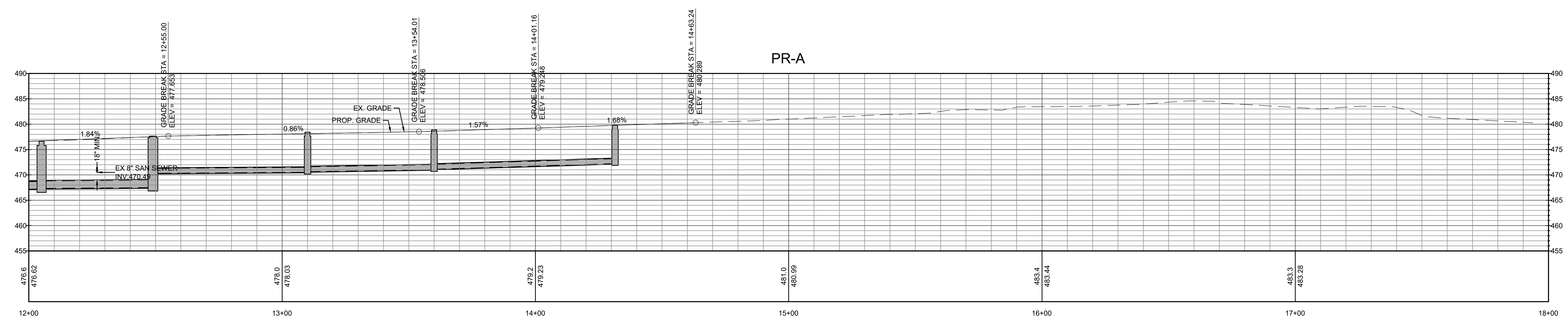
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 STATE OF INDIANA
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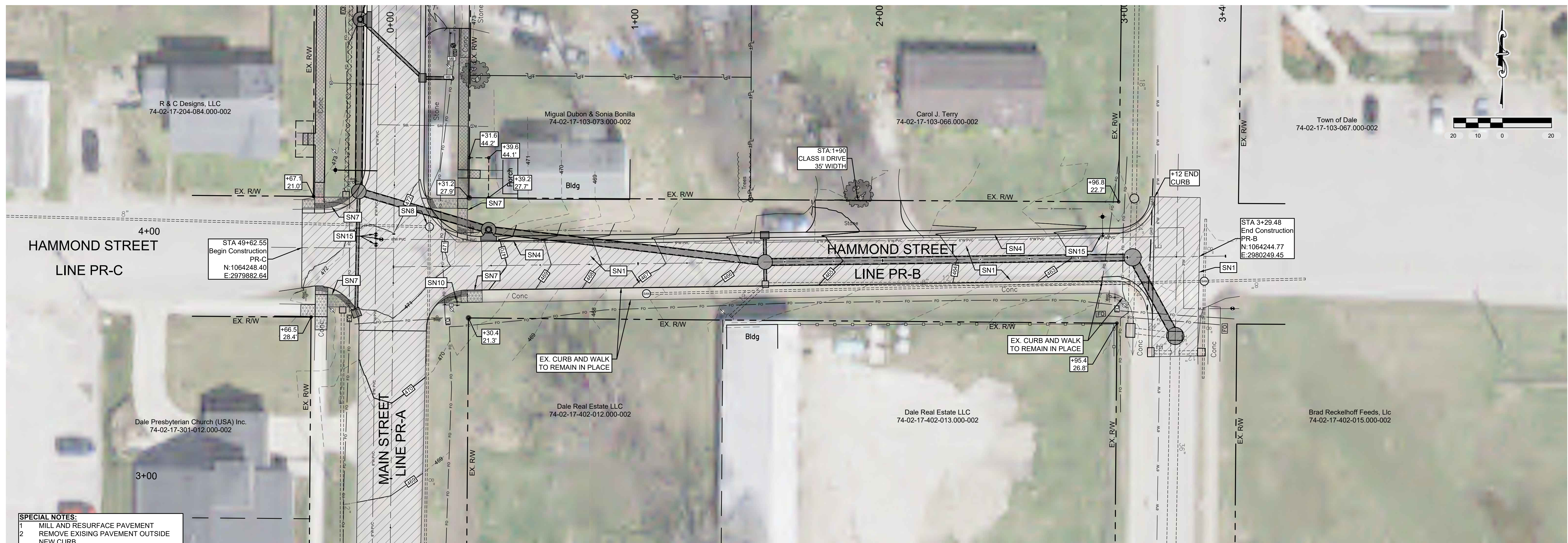
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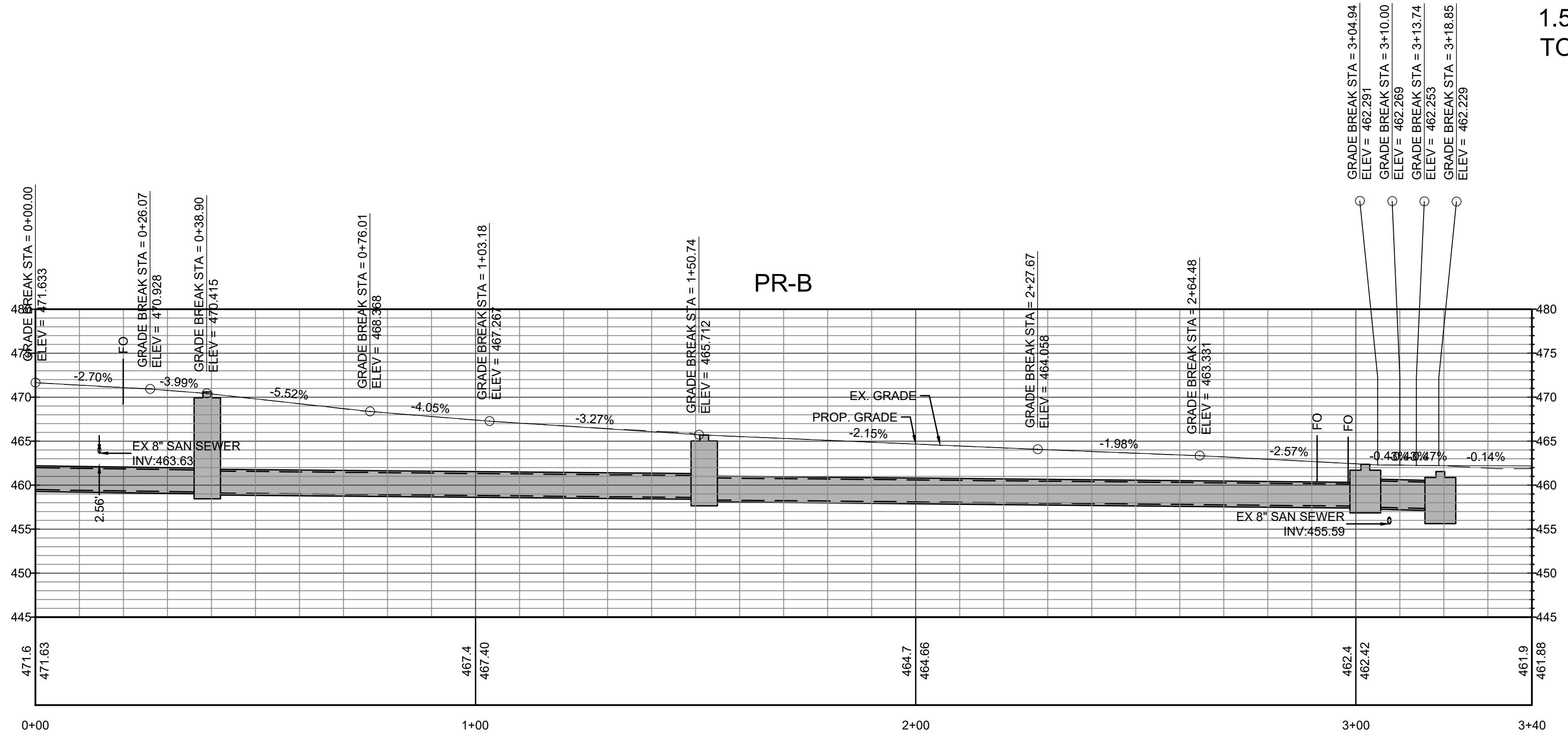
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HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=10'

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 Consultants: Civil, Mechanical, Electrical

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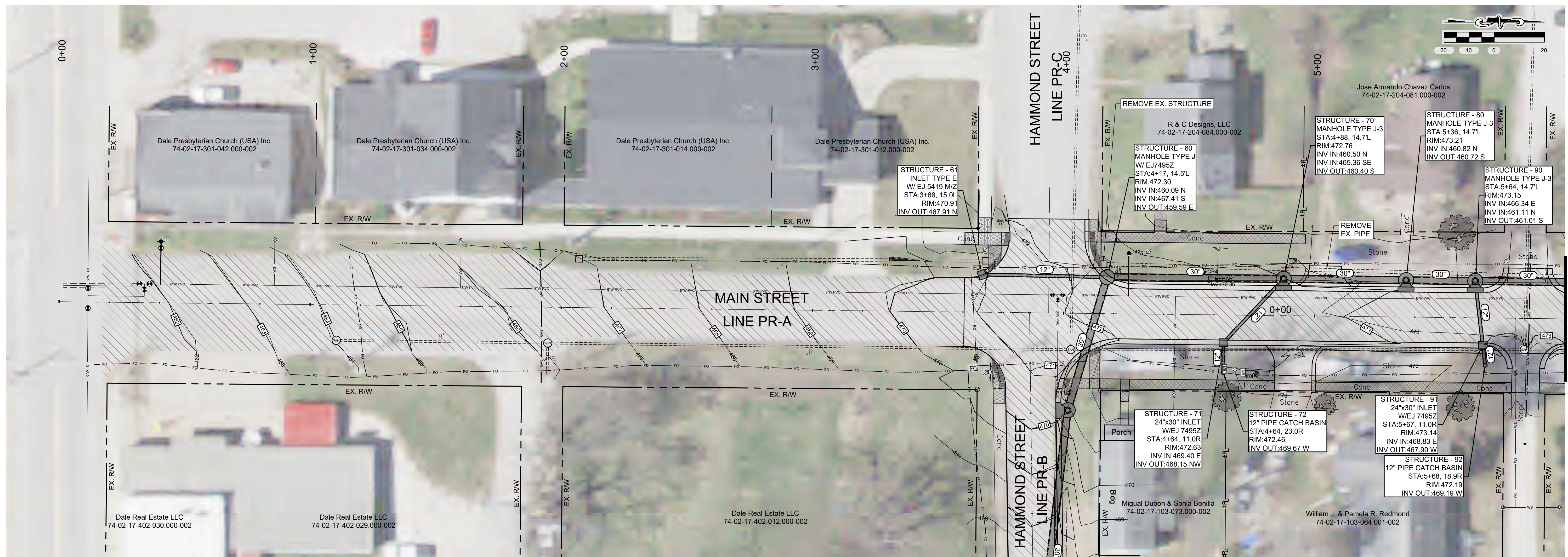
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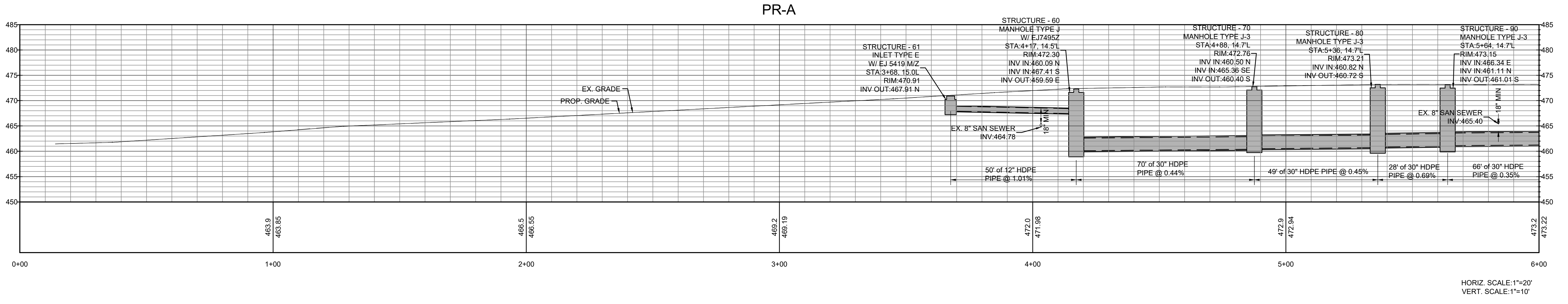
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MATCHLINE STA. 6+00
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VERT. SCALE: 1"=10'

STORM SEWER - LINE PR-A

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Consultants: Civil, Mechanical, Electrical

2023-2 CCMG
**STREET & STORM SEWER IMPROVEMENTS
MAIN STREET AND HAMMOND STREET
TOWN OF DALE**
SPENCER COUNTY, INDIANA

REVISIONS
2-21-2024

C. INT. W. ROSS
REGISTERED
No. PE11300241
STATE OF INDIANA
PROFESSIONAL ENGINEER
Clint W. Ross
2/1/2024

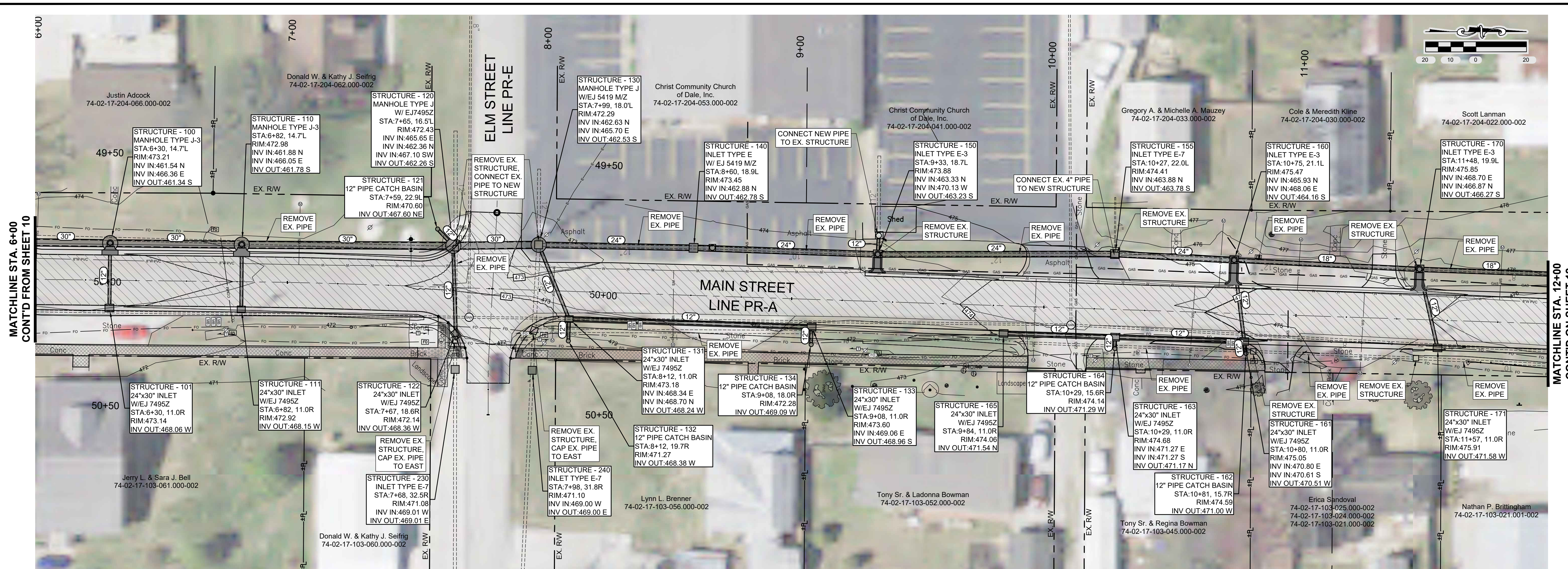
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PROJECT NUMBER
2023030-02

11
11 of 31

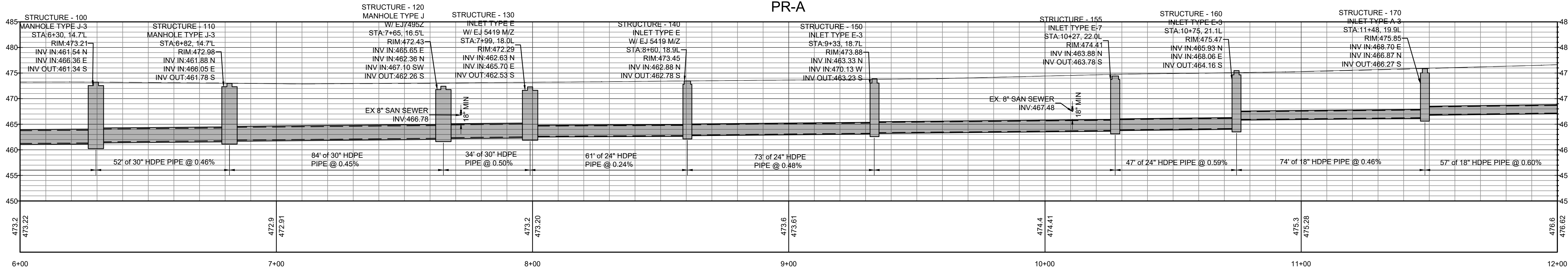
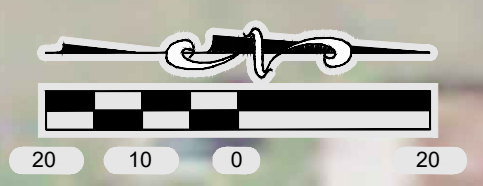
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MATCHLINE STA. 6+00
CONT'D FROM SHEET 10

MATCHLINE STA. 12+00
CONT'D ON SHEET 12



HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=10'

STORM SEWER- LINE PR-A

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Fax: 317-338-2901
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Civil Mechanical Electrical

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TOWN OF DALE
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12
OF 31

FILE NUMBER: 43859

Author: DKOONTZ, Plot Date: 2/21/2024 1:46 PM, Path: Z:\CAD_INCOMPLETE\2023030-02\DALE\COGAC_2023-2_MAIN_AND_HAMMOND\02_PRODUCT\DWG\011-14_S\FORM.DWG



HORIZ. SCALE: 1"=20'
 VERT. SCALE: 1"=10'

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 STATE OF INDIANA
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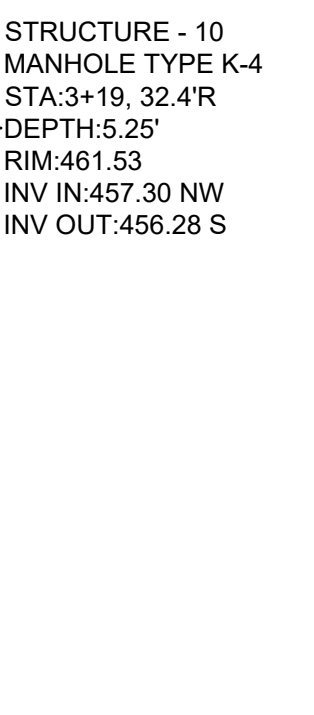
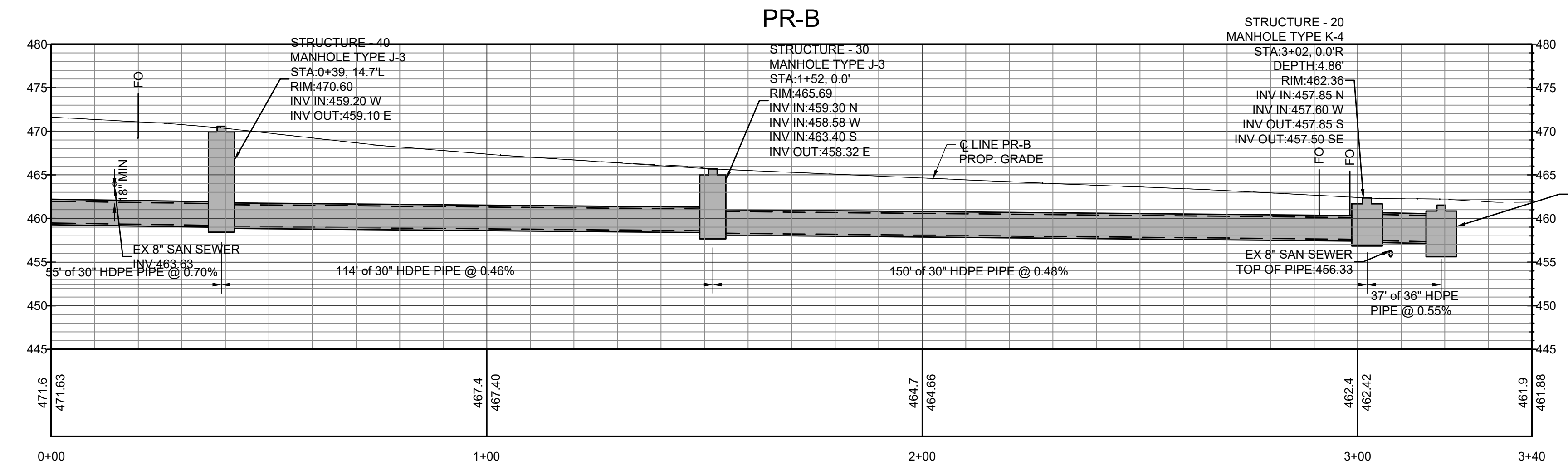
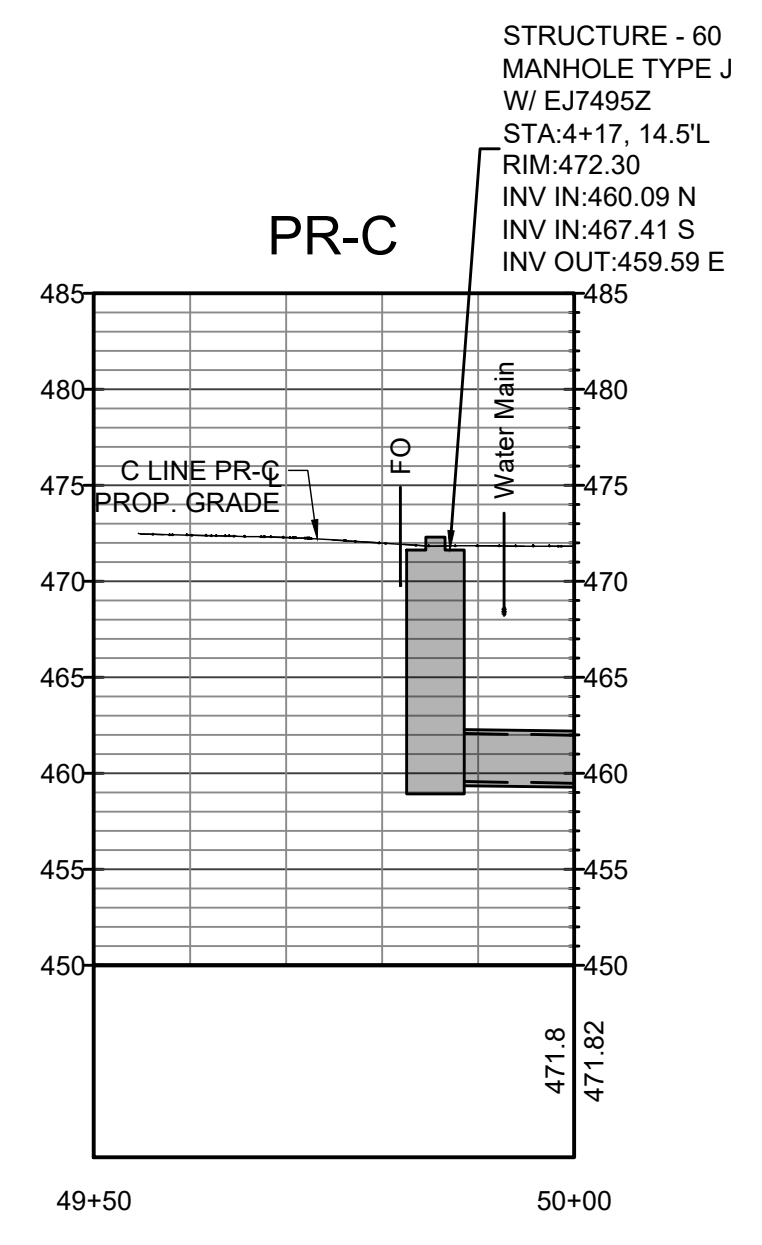
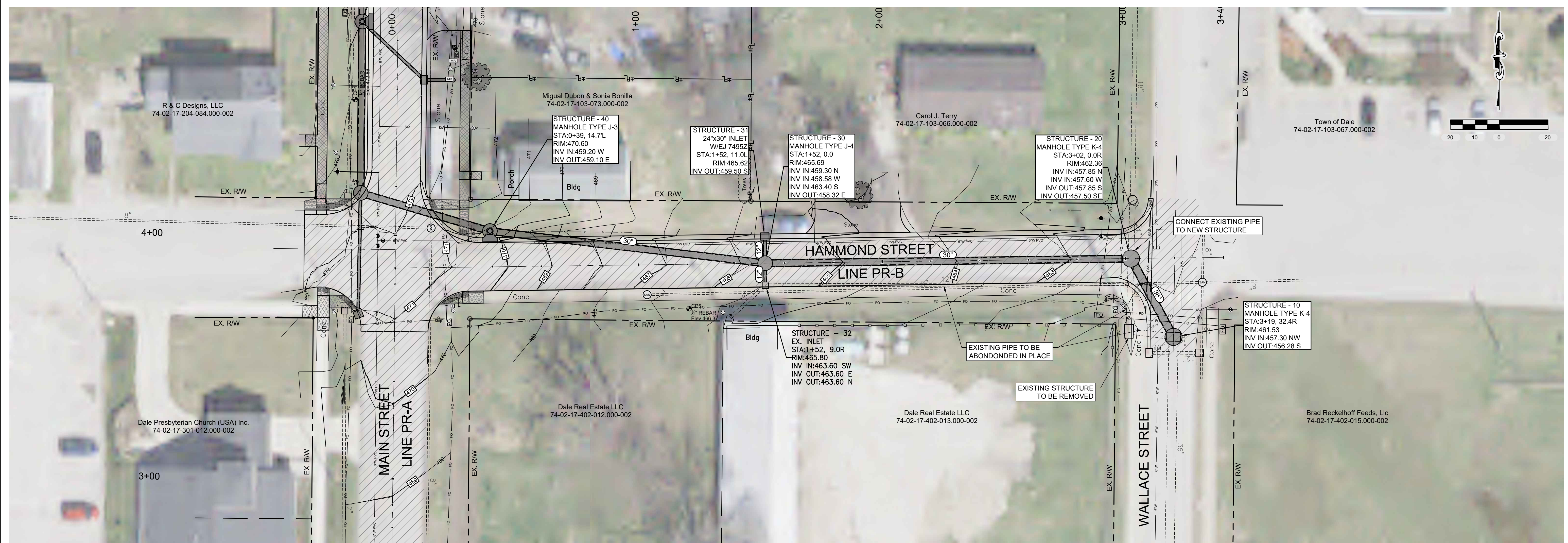
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13
 13 OF 31

FILE NUMBER
 43858

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HORIZ. SCALE: 1"=20'
VERT. SCALE: 1"=10'

STORM SEWER - LINE PR-B

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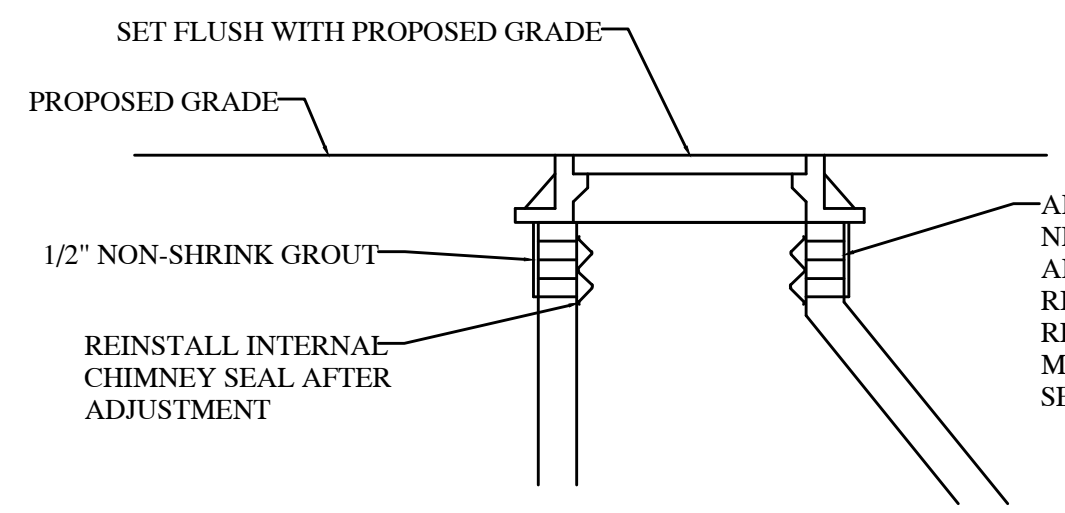
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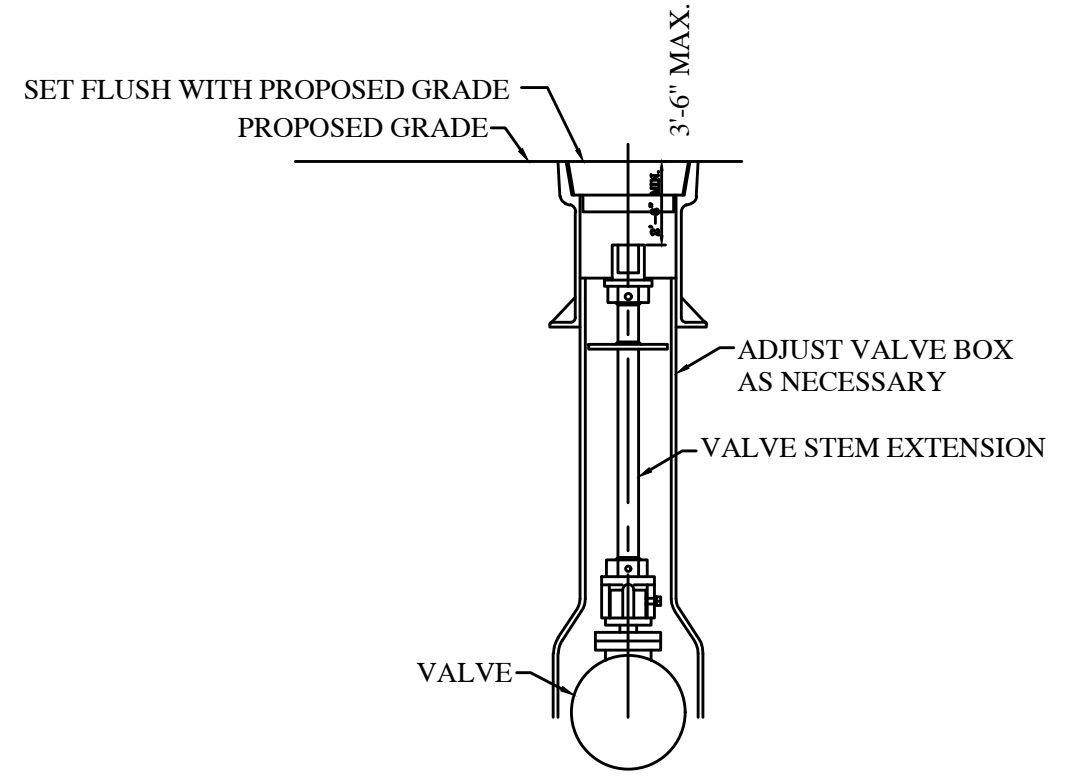
14
 14 OF 31

FILE NUMBER
 43857

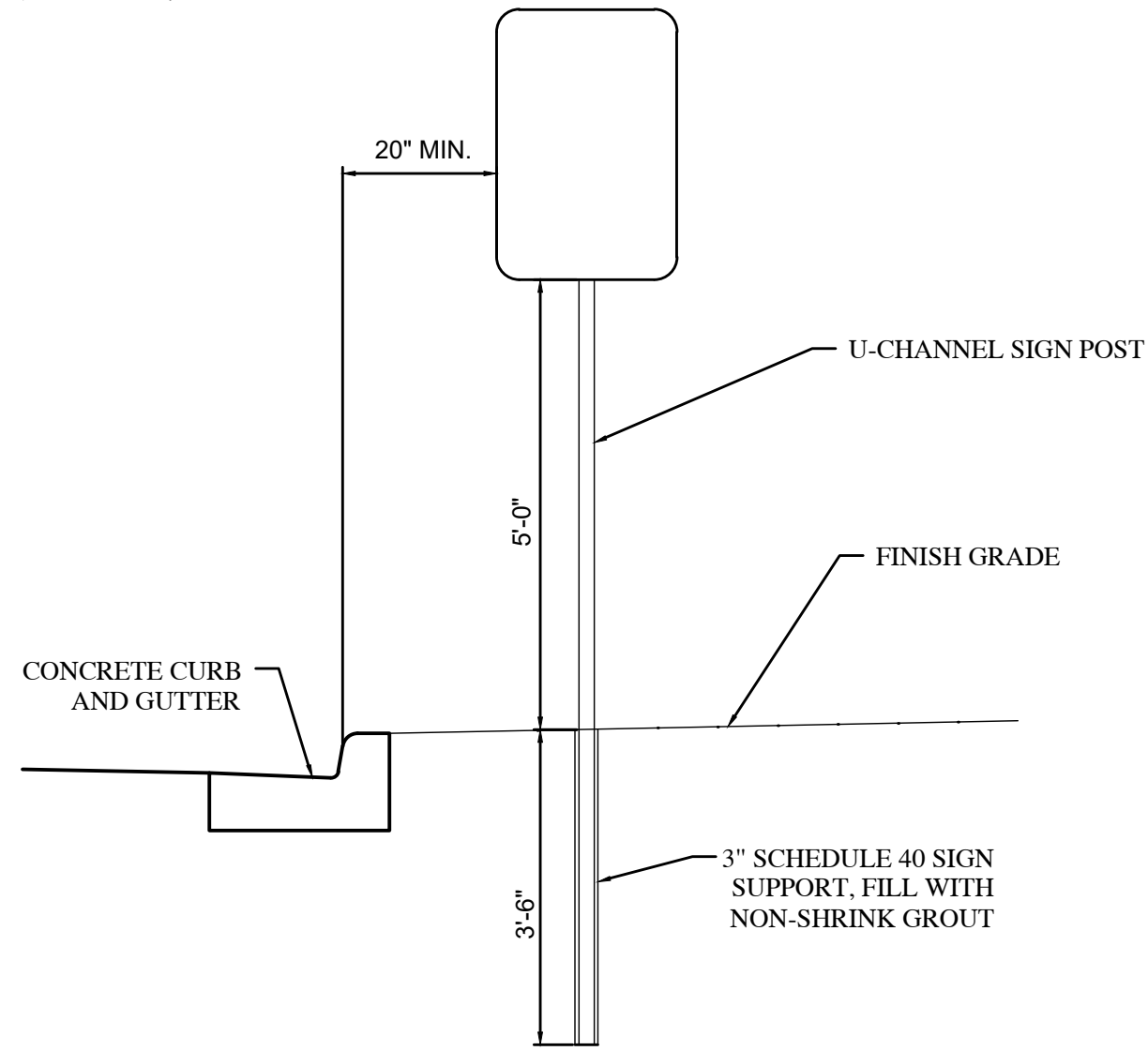
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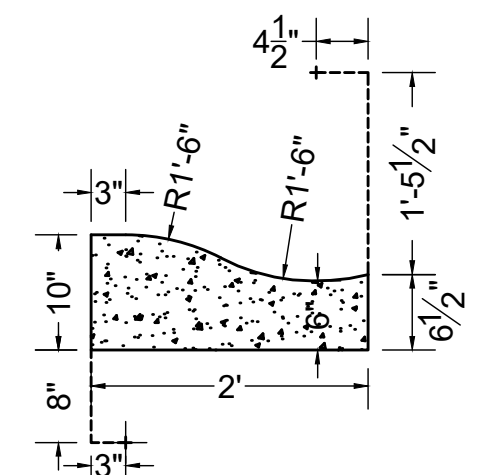
MANHOLE ADJUSTMENT DETAIL
NOT TO SCALE



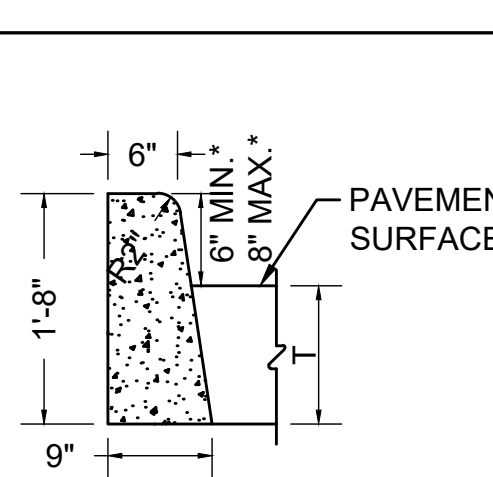
VALVE BOX ADJUSTMENT
NOT TO SCALE



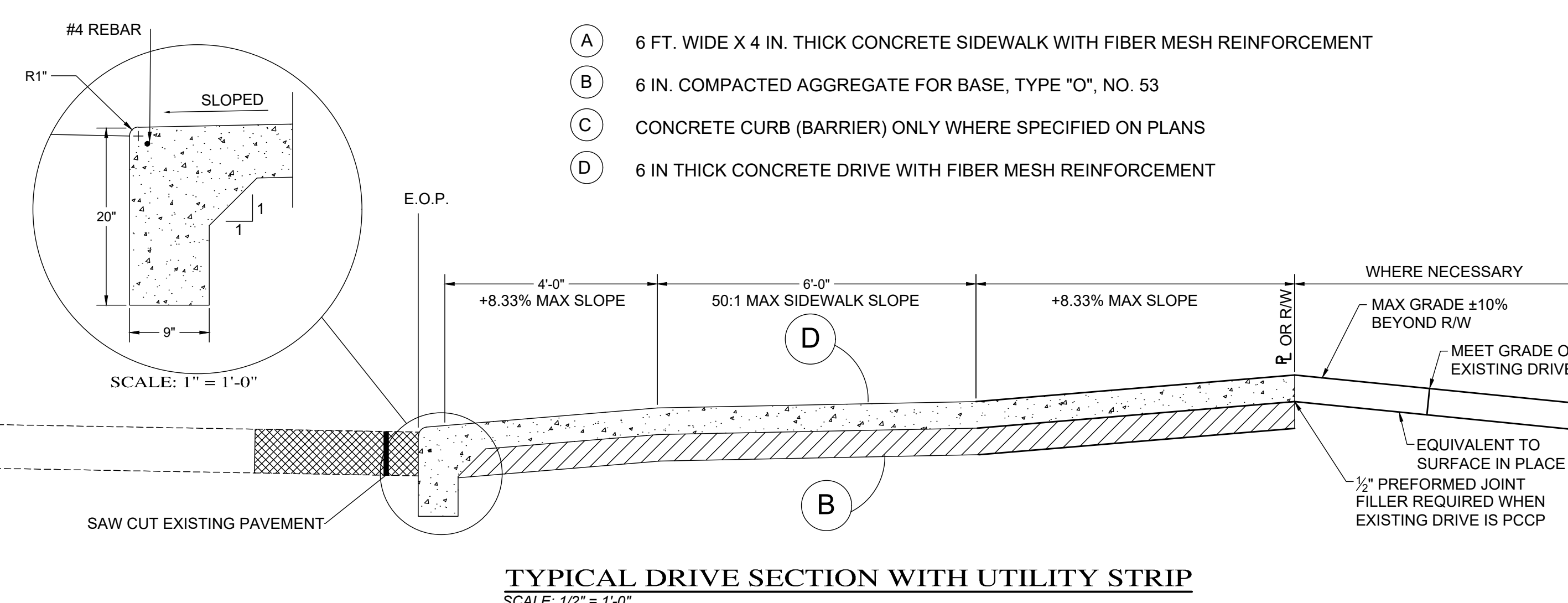
SIGN POST DETAIL
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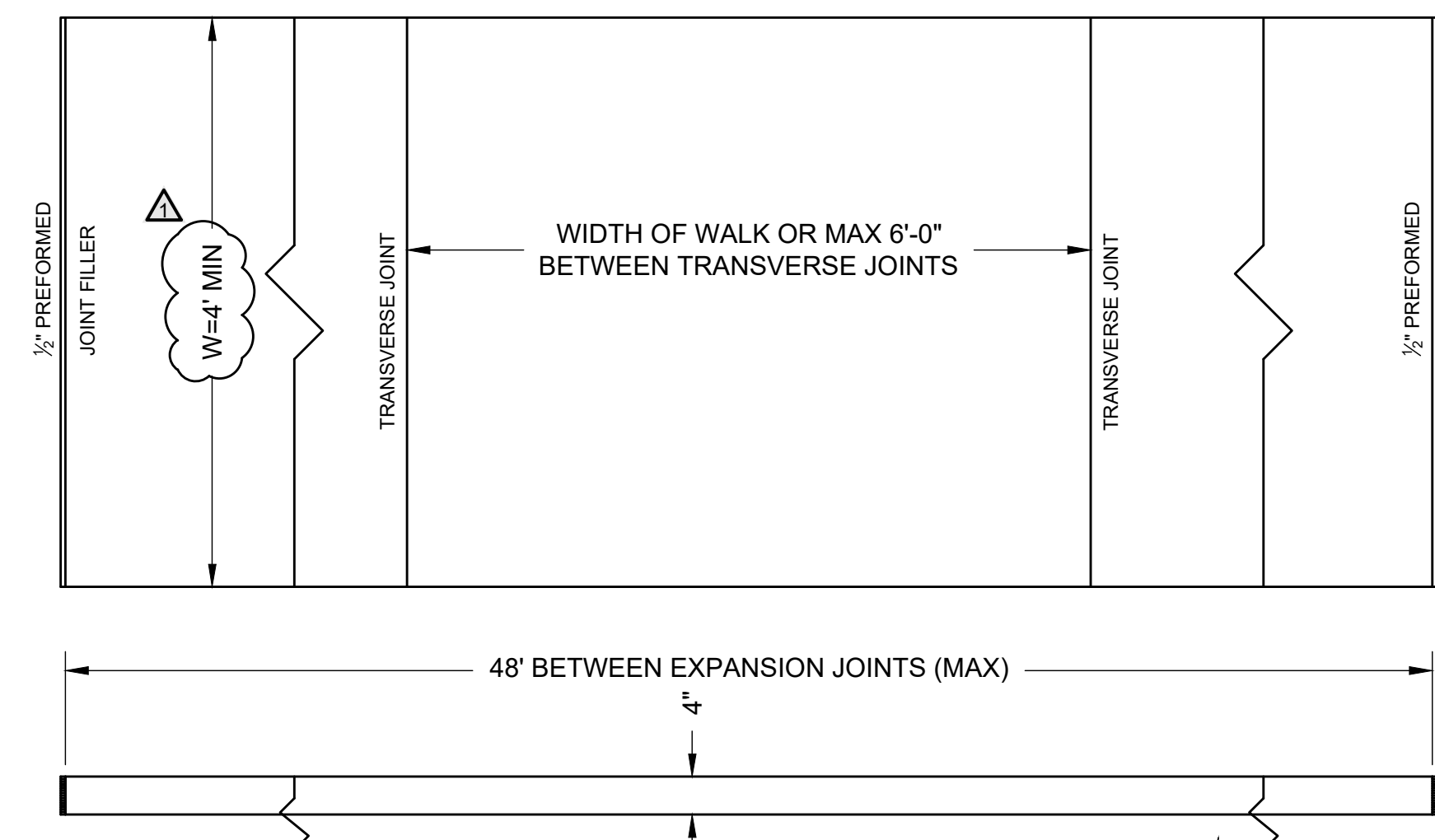
ROLLED CURB (SLOPING) DETAIL
NOT TO SCALE



BARRIER CURB DETAIL
NOT TO SCALE

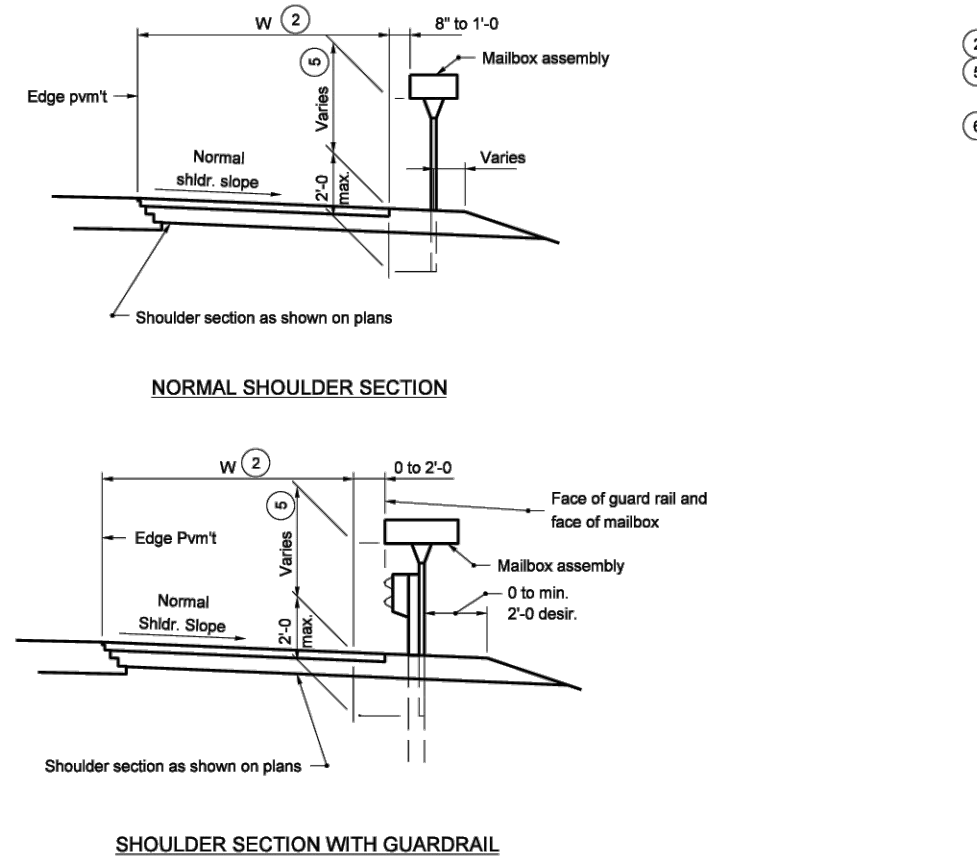


TYPICAL DRIVE SECTION WITH UTILITY STRIP
SCALE: 1/2" = 1'-0"



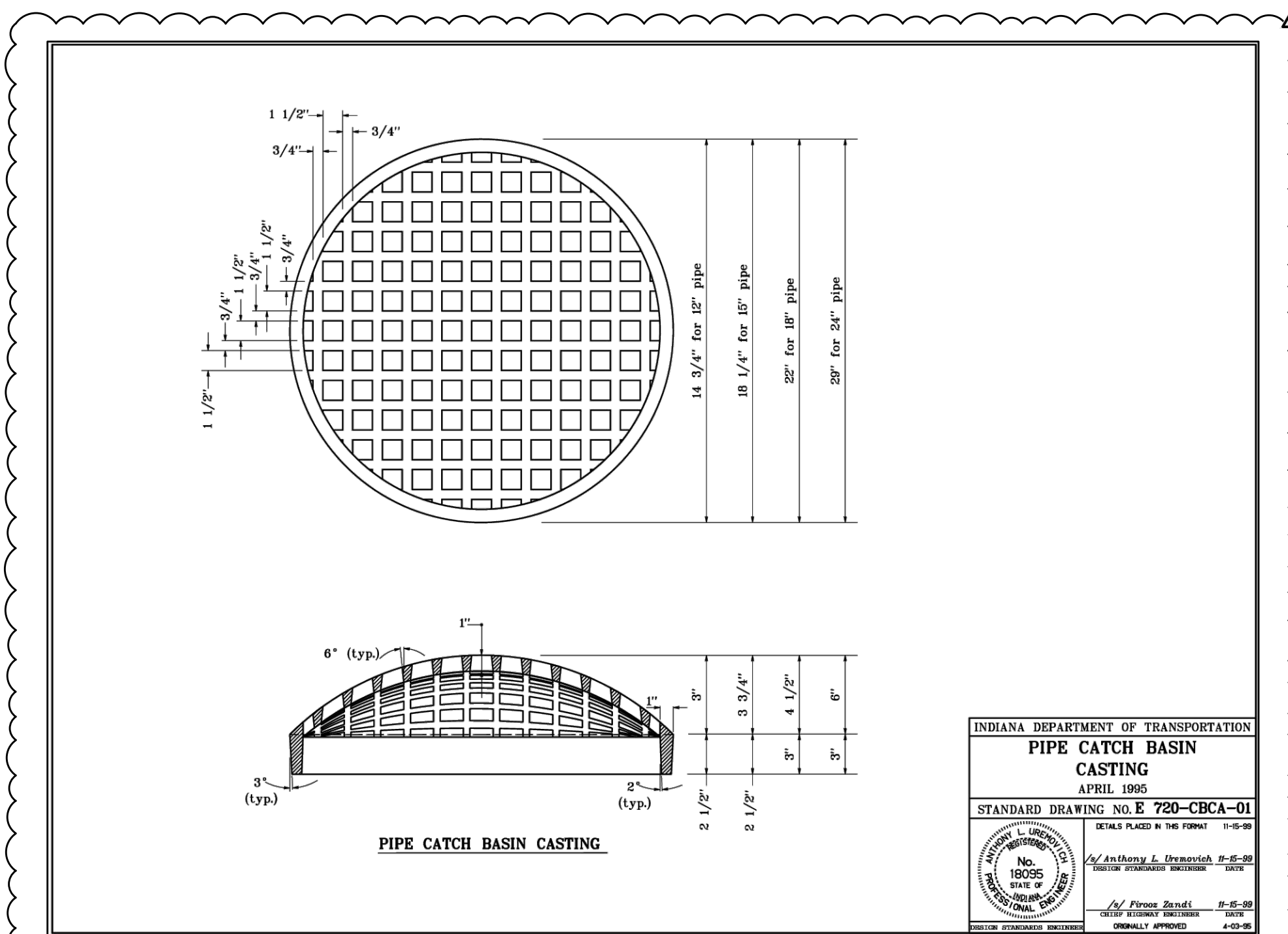
CONCRETE SIDEWALK OR TRAIL DETAIL
NOT TO SCALE

- NOTES:**
- EDGE AND BROOM FINISH. NO "PICTURE FRAME" FINISH WILL BE PERMITTED
 - ALL CONCRETE SHALL BE CLASS "A" CONCRETE W/ FIBER MESH REINFORCEMENT
 - 8" DEPTH CONCRETE AND 6" COMPACTED AGGREGATE, NO. 53 TO BE USED ACROSS DRIVES
 - ALL TRANSITIONS BETWEEN EXISTING WALKS, CURBS, GUTTERS, OR DRIVEWAYS MUST BE FLUSH AND FREE FROM ABRUPT CHANGES
 - OWNER MUST ALLOW ADEQUATE TIME FOR CURING OF CONCRETE. DAMAGE ASSOCIATED WITH PREMATURE USAGE OF THE WALK BY OWNER OR CONTRACTOR WILL NOT BE REIMBURSED
 - CONTRACTOR AND OWNER ARE RESPONSIBLE FOR CLEANUP OF ALL FORMS, SPILLED MATERIAL, AND OTHER DEBRIS GENERATED BY THE PROJECT



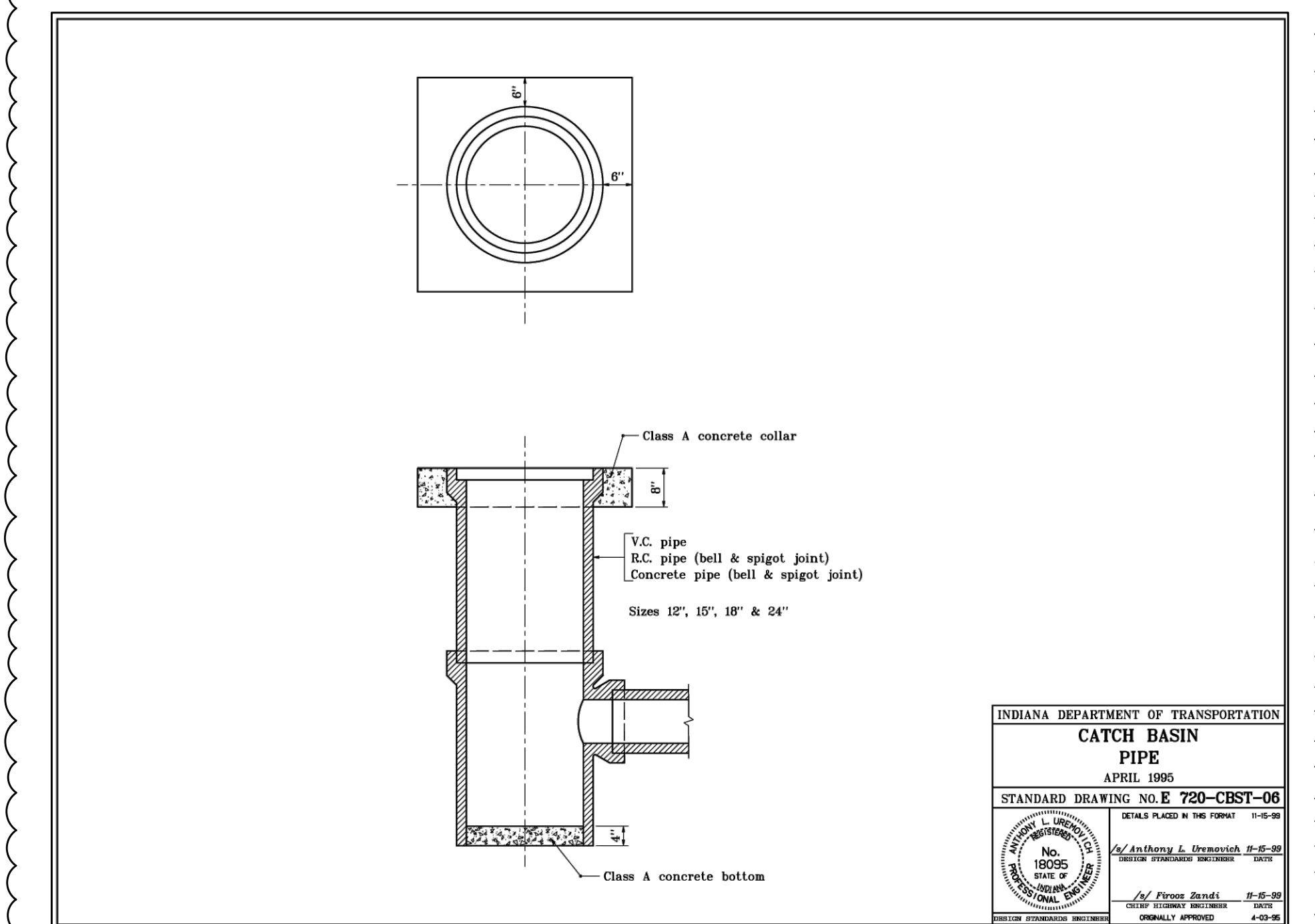
- GENERAL NOTES**
- See plans for W
 - The normal height range is 3'-3 to 3'-11. Contact the local postmaster to establish appropriate installation height.
 - Established by the U.S. Postal Service, usually 3'-4 to 4'-0.

INDIANA DEPARTMENT OF TRANSPORTATION
MAILBOX ASSEMBLIES
ELEVATION VIEW
MARCH 2005
STANDARD DRAWING NO. E 611-MBAS-04



PIPE CATCH BASIN CASTING

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE CATCH BASIN CASTING
APRIL 1995
STANDARD DRAWING NO. E 720-CBCA-01



INDIANA DEPARTMENT OF TRANSPORTATION
CATCH BASIN PIPE
APRIL 1995
STANDARD DRAWING NO. E 720-CBST-06

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17
OF 31

FILE NUMBER: 43854

STRUCTURE NUMBER		20	30	31	32	40	60	61	70	71	72	80	90	91	92	100	101	110	111	120	121	122	130	
PIPE TYPE / SHAPE (CIR or DEF)		CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR
INT. DES.	SMOOTH PIPE SIZE																							
	CORRUGATED PIPE SIZE																							
	SEMI-SMOOTH PIPE SIZE																							
	CLASS																							
	D _{0.01} RATING																							
CONC.	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																							
	CORRUGATED PE PIPE, TYPE S (S)*																							
	PROFILE WALL (RIBBED) PE PIPE (S)*																							
	PROFILE WALL (CLOSED) PE PIPE (S)*	36	30	12	12	30	30	12	30	12	12	30	30	12	12	30	12	30	12	30	12	12	30	
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR																							
PLASTIC PIPE	CORRUGATED PP PIPE (S)																							
	PROFILE WALL PVC PIPE (S)																							
	SMOOTH WALL PVC PIPE (S)*																							
	CLASS																							
	D _{0.01} RATING																							
CLAY	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)																							
	FULLY BIT. PAVED & LINED (S)																							
	CORR. PROFILE THICKNESS																							
	ZINC COATED (C)																							
	CORR. PROFILE THICKNESS																							

STRUCTURE NUMBER		131	132	133	134	140	150	151	155	160	161	162	163	164	165	170
PIPE TYPE / SHAPE (CIR or DEF)		CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR
INT. DES.	SMOOTH PIPE SIZE															
	CORRUGATED PIPE SIZE															
	SEMI-SMOOTH PIPE SIZE															
	CLASS															
	D _{0.01} RATING															
CONC.	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)															
	CORRUGATED PE PIPE, TYPE S (S)*															
	PROFILE WALL (RIBBED) PE PIPE (S)*	12	12	12	12	24	24	12	24	24	12	12	12	12	12	18
	PROFILE WALL (CLOSED) PE PIPE (S)*															
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR															
PLASTIC PIPE	CORRUGATED PP PIPE (S)															
	PROFILE WALL PVC PIPE (S)															
	SMOOTH WALL PVC PIPE (S)*															
	CLASS															
	D _{0.01} RATING															
CLAY	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)															
	FULLY BIT. PAVED & LINED (S)															
	CORR. PROFILE THICKNESS															
	ZINC COATED (C)															
	CORR. PROFILE THICKNESS															

LEGEND

- PIPE MATERIAL**
- RCP Reinforced Concrete Pipe
 - RCHEP Reinforced Concrete Horizontal Elliptical Pipe
 - PE Polyethylene
 - DR Dimension Ratio
 - PVC Polyvinyl Chloride
 - PP Polypropylene
 - CORR Corrugation
 - ALUM Aluminum
 - STR Structural
 - (LS) Lock Seam Pipe Required

- PIPE PROTECTION**
- BPI Bituminous Paved Invert
 - CFP Concrete Field Paving
 - BIT Bituminous

- SHAPE**
- CIR Circular Pipe
 - DEF Deformed Pipe

- INTERIOR DESIGNATION**
- (S) Smooth Pipe Material
 - (C) Corrugated Pipe Material
 - (SS) Semi-Smooth Pipe Material

- PIPE SIZE**
- Circular pipe is shown as diameter in inches
 - Deformed pipe is shown as area in square feet

* Refer to Standard Drawings 715-PHCL-20 through -22 for nominal diameter appropriate for pay item diameter.

** Tabulated thickness refers to top and side plates. For pipes and pipe-arches with a thickness less than .280 in., bottom plates shall be of next greater available thickness.

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21

_ 21 OF 31 _

FILE NUMBER
43850

PIPE MATERIAL TABLE

Author: D:\000172_Plot Date: 2/21/2024 2:35 PM
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		171	180	181	190	191	192	193	194	200	210	220	221										
INT. DES.	STRUCTURE NUMBER																						
	PIPE TYPE / SHAPE (CIR or DEF)	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR
	SMOOTH PIPE SIZE																						
	CORRUGATED PIPE SIZE																						
CONC.	RCP/RCHPE (S) CLASS D _{0.01} RATING																						
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																						
PLASTIC PIPE	CORRUGATED PE PIPE, TYPE S (S)*																						
	PROFILE WALL (RIBBED) PE PIPE (S)*																						
	PROFILE WALL (CLOSED) PE PIPE (S)*																						
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR	12	18	12	18	12	12	12	12	12	12	12	12	12									
	CORRUGATED PP PIPE (S)																						
CLAY	PROFILE WALL PVC PIPE (S)																						
	SMOOTH WALL PVC PIPE (S)*																						
CORRUGATED STEEL PIPE / PIPE-ARCH	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)																						
	FULLY BIT. PAVED & LINED (S)																						
	ZINC COATED (C)																						
	ZINC COATED W/ BPI (C)																						
	ALUM. COATED TYPE 2 (C)																						
	POLYMER PRECOATED GALVANIZED (C)																						
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)																						
	CORRUGATED ALUM. ALLOY (C)																						
	CORRUGATED ALUM. ALLOY W/ BPI (C)																						
	SPIRAL RIB STEEL PIPE	ZINC COATED (SS)																					
ZINC COATED W/ BPI (SS)																							
ALUM. COATED TYPE 2 (SS)																							
POLYMER PRECOATED GALVANIZED (SS)																							
STRUCTURAL PLATE PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY (C)																						
	STR. PLATE ALUMINUM ALLOY W/ CFP (C)																						
	STR. PLATE STEEL (C)																						
	STR. PLATE STEEL W/ CFP (C)																						

		171	180	181	190	191	192	193	194	200	210	220	221										
INT. DES.	STRUCTURE NUMBER																						
	PIPE TYPE / SHAPE (CIR or DEF)	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR	CIR
	SMOOTH PIPE SIZE																						
	CORRUGATED PIPE SIZE																						
CONC.	RCP/RCHPE (S) CLASS D _{0.01} RATING																						
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)																						
PLASTIC PIPE	CORRUGATED PE PIPE, TYPE S (S)*																						
	PROFILE WALL (RIBBED) PE PIPE (S)*																						
	PROFILE WALL (CLOSED) PE PIPE (S)*																						
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR																						
	CORRUGATED PP PIPE (S)																						
CLAY	PROFILE WALL PVC PIPE (S)																						
	SMOOTH WALL PVC PIPE (S)*																						
CORRUGATED STEEL PIPE / PIPE-ARCH	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)																						
	FULLY BIT. PAVED & LINED (S)																						
	ZINC COATED (C)																						
	ZINC COATED W/ BPI (C)																						
	ALUM. COATED TYPE 2 (C)																						
	POLYMER PRECOATED GALVANIZED (C)																						
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)																						
	CORRUGATED ALUM. ALLOY (C)																						
	CORRUGATED ALUM. ALLOY W/ BPI (C)																						
	SPIRAL RIB STEEL PIPE	ZINC COATED (SS)																					
ZINC COATED W/ BPI (SS)																							
ALUM. COATED TYPE 2 (SS)																							
POLYMER PRECOATED GALVANIZED (SS)																							
STRUCTURAL PLATE PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY (C)																						
	STR. PLATE ALUMINUM ALLOY W/ CFP (C)																						
	STR. PLATE STEEL (C)																						
	STR. PLATE STEEL W/ CFP (C)																						

LEGEND

PIPE MATERIAL

- RCP Reinforced Concrete Pipe
- RCHPE Reinforced Concrete Horizontal Elliptical Pipe
- PE Polyethylene
- DR Dimension Ratio
- PVC Polyvinyl Chloride
- PP Polypropylene
- CORR Corrugation
- ALUM Aluminum
- STR Structural
- (LS) Lock Seam Pipe Required

PIPE PROTECTION

- BPI Bituminous Paved Invert
- CFP Concrete Field Paving
- BIT Bituminous

SHAPE

- CIR Circular Pipe
- DEF Deformed Pipe

INTERIOR DESIGNATION

- (S) Smooth Pipe Material
- (C) Corrugated Pipe Material
- (SS) Semi-Smooth Pipe Material

PIPE SIZE

Circular pipe is shown as diameter in inches
 Deformed pipe is shown as area in square feet

* Refer to Standard Drawings 715-PHCL-20 through -22 for nominal diameter appropriate for pay item diameter.

** Tabulated thickness refers to top and side plates. For pipes and pipe-arches with a thickness less than .280 in., bottom plates shall be of next greater available thickness.

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 Clint W. Rogers
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22 OF 31

FILE NUMBER: 43849

PIPE MATERIAL TABLE