CITY OF WEST LAFAYETTE, INDIANA

DRAWINGS FOR

NORTH RIVER ROAD INTERCEPTOR SEWER REHABILITATION

MAYOR
JOHN DENNIS

BOARD OF PUBLIC WORKS AND SAFETY
JOHN DENNIS, President
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WASTEWATER TREATMENT UTILITY DIRECTOR
DAVID HENDERSON

CITY ENGINEER
DAVID BUCK, P.E.

GREELEY AND HANSEN
6640 INTECH BOULEVARD, SUITE 180
INDIANAPOLIS, IN 46278
NOVEMBER 2010

SEAL AFFIXED
NOVEMBER 18, 2010

PAUL J. VOGEL
REGISTERED
No.
PE 10200267
STATE OF
INDIANA
PROFESSIONAL ENGINEER

FILE: 0791ECVR 1:1 11/17/10 12:10 GH-A

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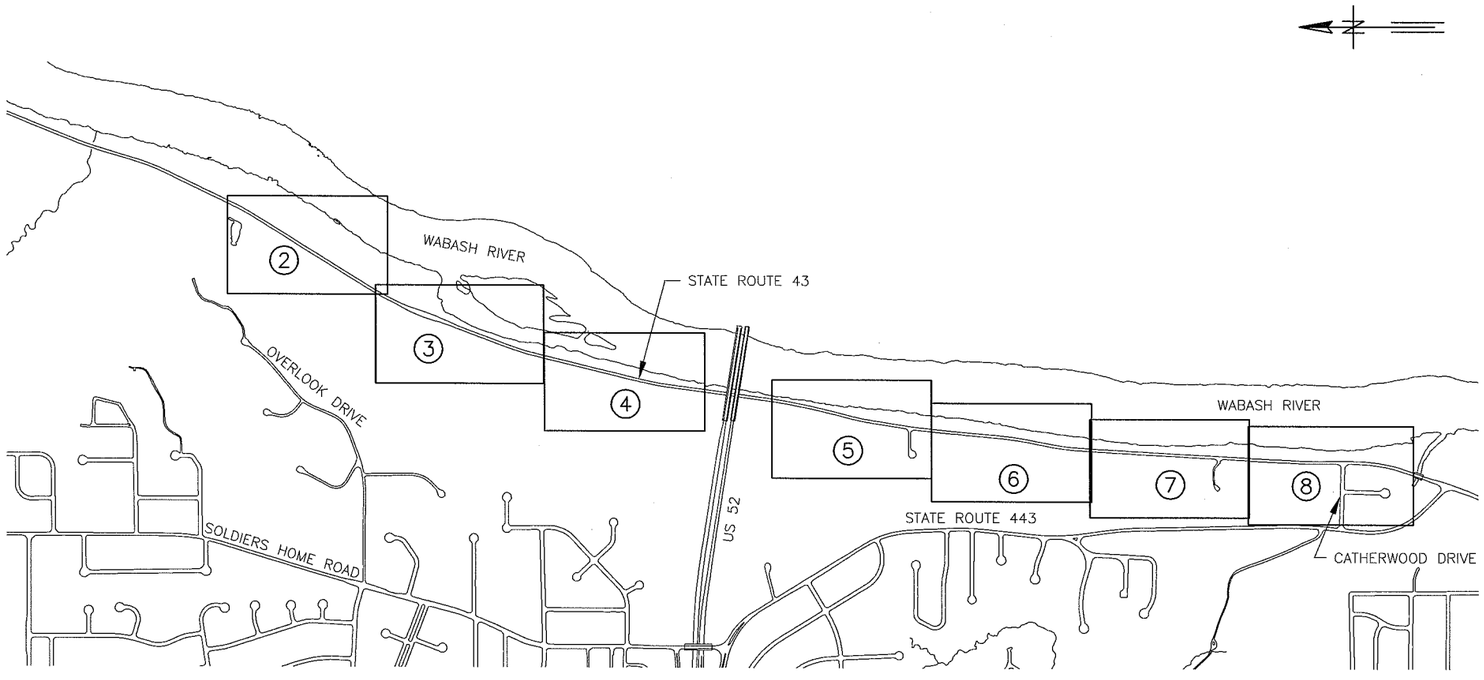

LOCATION MAP

SCALE: NOT TO SCALE

NOTES:

1. ONLY SANITARY SEWER UTILITIES ARE SHOWN.
2. LOCATE ALL UTILITIES PRIOR TO BEGINNING WORK. SUPPORT, PROTECT AND RESTORE ALL UTILITIES AS REQUIRED TO COMPLETE THE WORK.
3. (2) INDICATES SHEET NUMBER.
4. SANITARY SEWER PROPOSED FOR REHABILITATION IS 24" REINFORCED CONCRETE PIPE.
5. MANHOLES PROPOSED FOR REHABILITATION ARE PRECAST CONCRETE WITH A 48" BASE.
6. HEAVY LINES INDICATE CURED-IN-PLACE PIPE AND MANHOLE REHABILITATION UNLESS NOTED OTHERWISE.
7. SEWER AND MANHOLE REHABILITATION SEQUENCE:
   A. RAISE MANHOLE TO GRADE
   B. INSTALL NEW MANHOLE FRAME AND COVER
   C. INSTALL CURED-IN-PLACE PIPE LINER
   D. INSTALL MANHOLE LINING

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SCALE: NOT TO SCALE

CITY OF WEST LAFAYETTE, INDIANA
NORTH RIVER ROAD INTERCEPTOR
SEWER REHABILITATION

GENERAL

INDEX, NOTES AND LOCATION MAP

FILE NAME: 0791EG01.DWG
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DATE NOVEMBER 2010 REV 0

FILE: 0791EG01 1:1 11/17/10 16:20 GH-A

240885

3232

240882

3232

STATE ROUTE 43

240881

WABASH RIVER

3030

240880

3006

3000

3030

3006

3000

FOR CONTINUATION SEE SHEET 3

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FILE: 0791EG02 1:1 11/15/10 11:49 GH-A

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SCALE
1"=100'

CITY OF WEST LAFAYETTE, INDIANA
NORTH RIVER ROAD INTERCEPTOR
SEWER REHABILITATION

GENERAL

MANHOLE 240881 TO 240880

FILE NAME: 0791EG02.DWG
SHEET 2 OF 13
DATE NOVEMBER 2010 REV 0

240879

2900

240877

WABASH RIVER

240870

240865

STATE ROUTE 43

240868

2750

240866

FOR CONTINUATION SEE SHEET 2

FOR CONTINUATION SEE SHEET 4

2900

RIVER BEND
HOSPITAL

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FILE: 0791EG03 1:1 11/15/10 12:00 GH-A

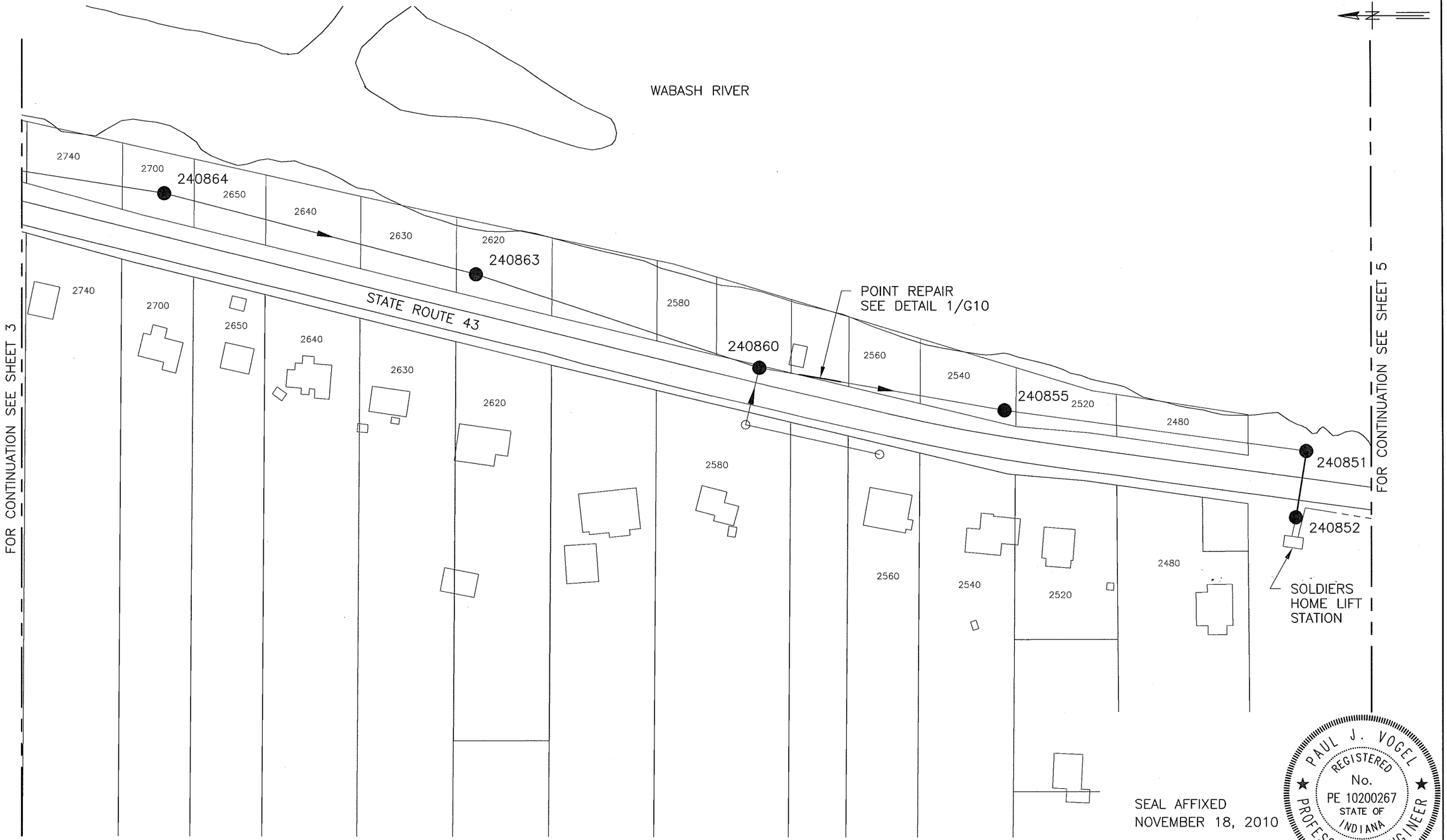
GREELEY AND HANSEN 6640 INTECH BOULEVARD, SUTE 180 INDIANAPOLIS, INDIANA 46278	DESIGNED KWG DRAWN KWG CHECKED JMT		NO.	DATE	APPD	REVISION	SCALE 1"=100'

CITY OF WEST LAFAYETTE, INDIANA
NORTH RIVER ROAD INTERCEPTOR
SEWER REHABILITATION

GENERAL

MANHOLE 240879 TO 240866

FILE NAME: 0791EG03.DWG
SHEET 3 OF 13
DATE NOVEMBER 2010 REV 0



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FILE: 0791EG04 1:1 11/17/10 09:07 GH-A

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SCALE
1"=100'

CITY OF WEST LAFAYETTE, INDIANA
NORTH RIVER ROAD INTERCEPTOR
SEWER REHABILITATION

GENERAL

MANHOLE 240864 TO 240852

FILE NAME: 0791EG04.DWG
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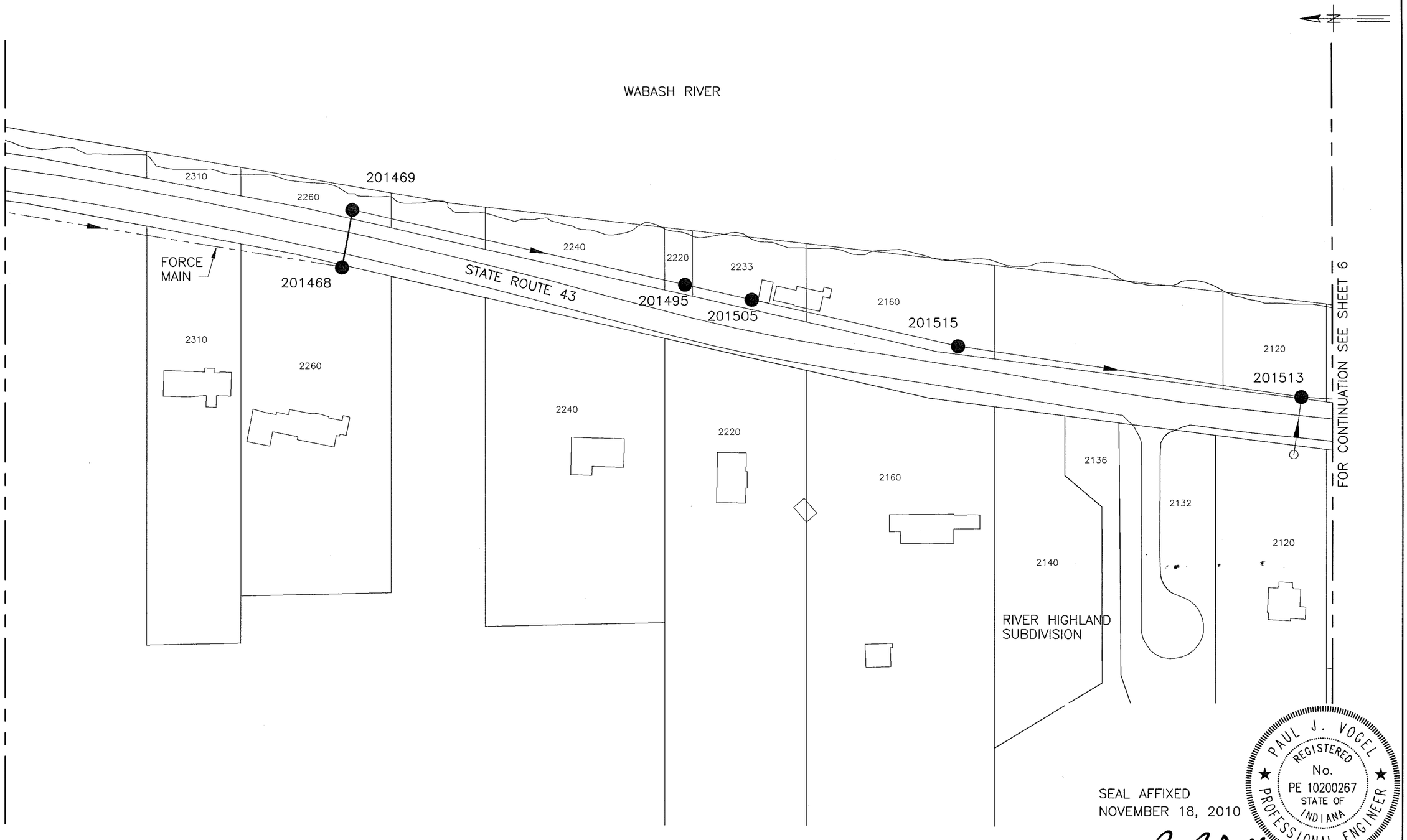
DATE NOVEMBER 2010 REV 0



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NO.	DATE	APPD	REVISION

SCALE
1"=100'

CITY OF WEST LAFAYETTE, INDIANA
NORTH RIVER ROAD INTERCEPTOR
SEWER REHABILITATION

GENERAL

MANHOLE 201468 TO 201513

FILE NAME: 0791EG05.DWG
SHEET 5 OF 13
DATE NOVEMBER 2010 REV 0

FILE: 0791EG05 1:1 11/15/10 13:04 GH-A

WABASH RIVER

201528

201511

201510

STATE ROUTE 43

2060

2000

1980

1970

1940

1900

1830

WATTS
SUBDIVISION

HARPER MINOR
SUBDIVISION

FOR CONTINUATION SEE SHEET 5

FOR CONTINUATION SEE SHEET 7

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SCALE
1"=100'

CITY OF WEST LAFAYETTE, INDIANA
NORTH RIVER ROAD INTERCEPTOR
SEWER REHABILITATION

GENERAL

MANHOLE 201528 TO 201510

FILE NAME: 0791EG06.DWG
SHEET 6 OF 13
DATE NOVEMBER 2010 REV 0

FILE: 0791EG06 1:1 11/15/10 13:00 GH-A

WABASH RIVER

1830
1790
230944
1790
1730
1700
201517
1680
201521
201520
1552
STATE ROUTE 43

1790
1770
1730
1700
1680
1650
1630
1604
1200
1830

FOR CONTINUATION SEE SHEET 6

FOR CONTINUATION SEE SHEET 8

HYDE PARK
SUBDIVISION

CHARDONNAY
SUBDIVISION

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FILE: 0791EG07 1:1 11/15/10 13:01 GH-A

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SCALE
1"=100'

CITY OF WEST LAFAYETTE, INDIANA
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GENERAL

MANHOLE 230944 TO 201520

FILE NAME: 0791EG07.DWG
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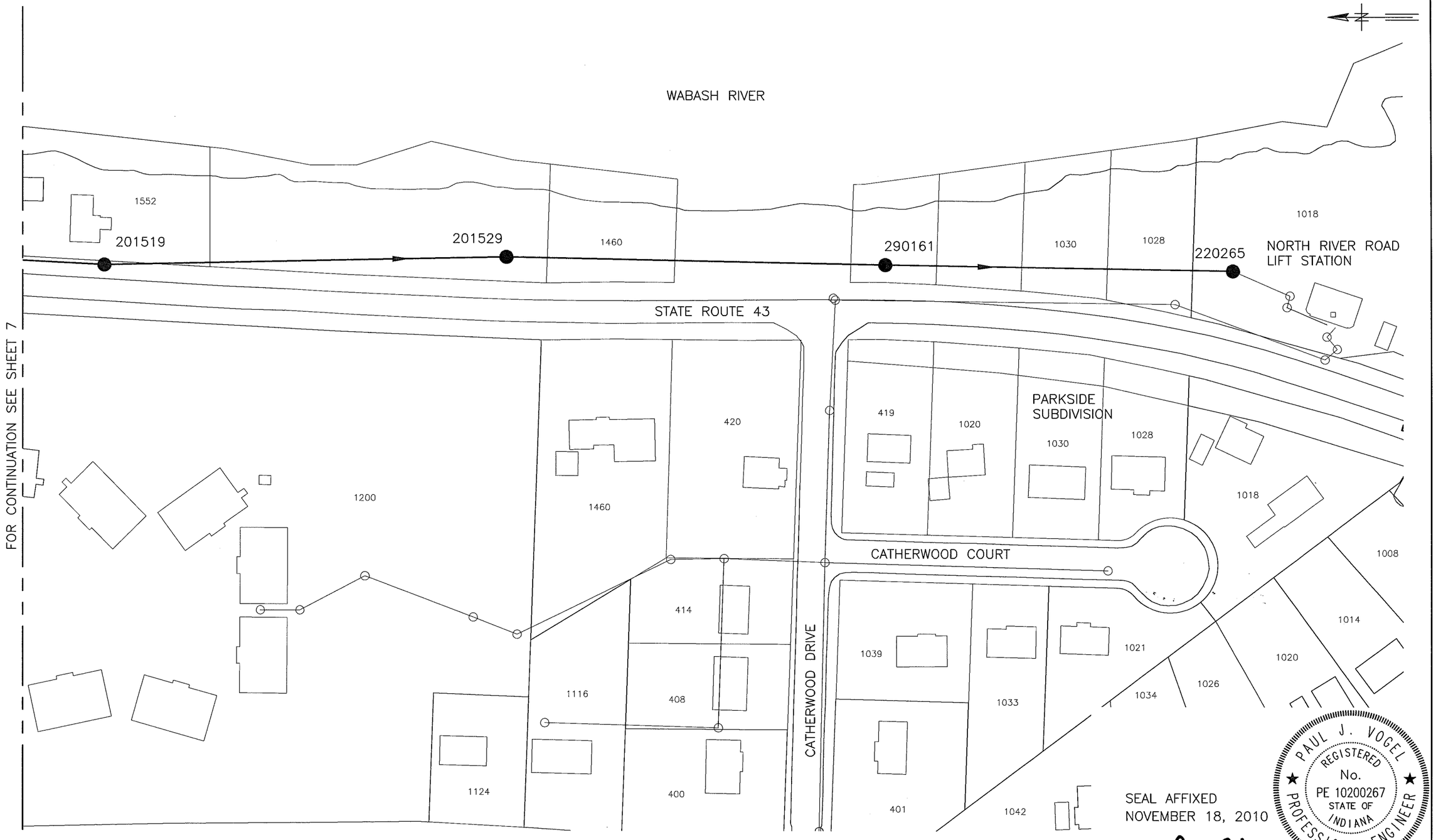

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CHECKED JMT

NO.	DATE	APPD	REVISION

SCALE
1"=100'

CITY OF WEST LAFAYETTE, INDIANA
NORTH RIVER ROAD INTERCEPTOR
SEWER REHABILITATION

GENERAL

MANHOLE 201519 TO 220265

FILE NAME: 0791EG08.DWG
SHEET 8 OF 13
DATE NOVEMBER 2010 REV 0

FILE: 0791EG08 1:1 11/15/10 13:01 GH-A

MANHOLE NUMBER	APPROX DEPTH (FEET)	MH DIA (INCHES)	MANHOLE INTERIOR LINING	EXTERIOR CHIMNEY SEAL	RAISE MH TO GRADE	MH FRAME & COVER
240881		48		X	X	X
240880		48		X	X	X
240879		48		X		X
240877		48		X	X	X
240870		48		X	X	X
240865		48		X	X	X
240868		48		X	X	X
240866		48		X	X	X
240864		48		X		X
240863		48		X		X
240860		48		X		X
240855		48		X		X
240851	10.0	48	X			X
240852	15.5	48	X			X
201468	8.0	48	X			X
201469	8.0	48	X			X
201495		48		X		X
201505		48		X	X	X
201515	6.5	48	X			X
201513	6.0	48	X			X
201528	6.0	48	X			X
201511	6.0	48	X			X
201510	7.5	48	X			X
230944	5.5	48	X			X
201517	6.5	48	X			X
201521	5.0	48	X			X
201520	14.5	48	X			X
201519	14.0	48	X			X
201529	6.5	48	X			X
290161	5.0	48	X		X	X
220265	9.0	48	X		X	X

MANHOLE SCHEDULE

SCALE: NOT TO SCALE

SEWER SEGMENT (MH - MH)	PIPE DIAMETER (IN)	APPROXIMATE LENGTH (FEET)	ESTIMATED NO. OF ACTIVE SERVICE CONNECTIONS
240851 - 240852	24	67	0
201468 - 201469	24	60	0
201510 - 230944	24	404	0
230944 - 201517	24	502	1
201517 - 201521	24	504	0
201521 - 201520	24	50	0
201520 - 201519	24	191	1
210519 - 201529	24	427	0
201529 - 290161	24	403	0
290161 - 220265	24	365	0

SEWER SCHEDULE

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CITY OF WEST LAFAYETTE, INDIANA
NORTH RIVER ROAD INTERCEPTOR
SEWER REHABILITATION

GENERAL
SEWER AND MANHOLE
REHABILITATION SCHEDULE

FILE NAME: 0791EG09.DWG
SHEET 9 OF 13
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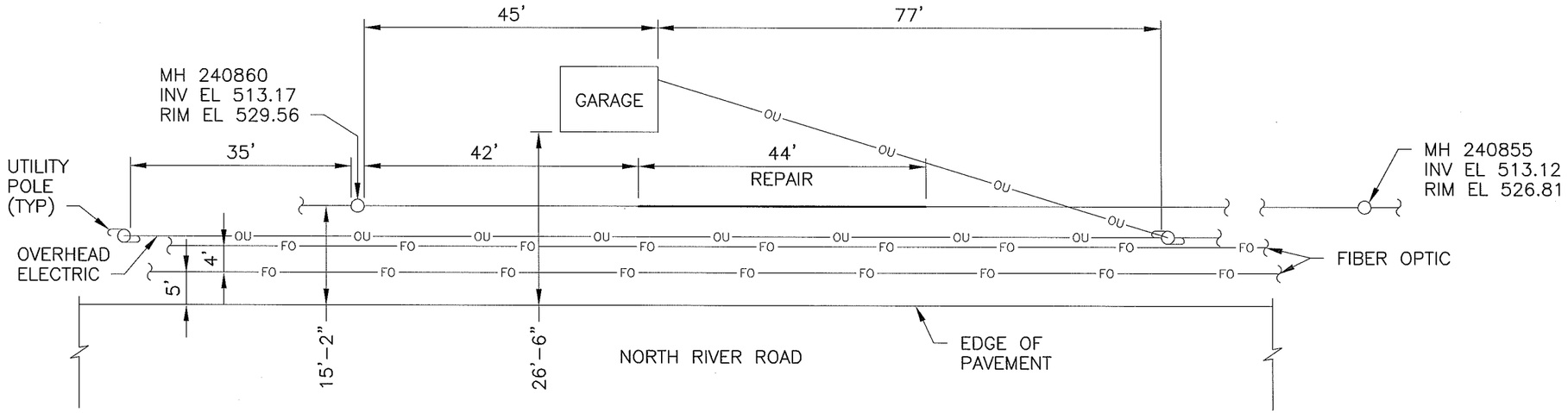
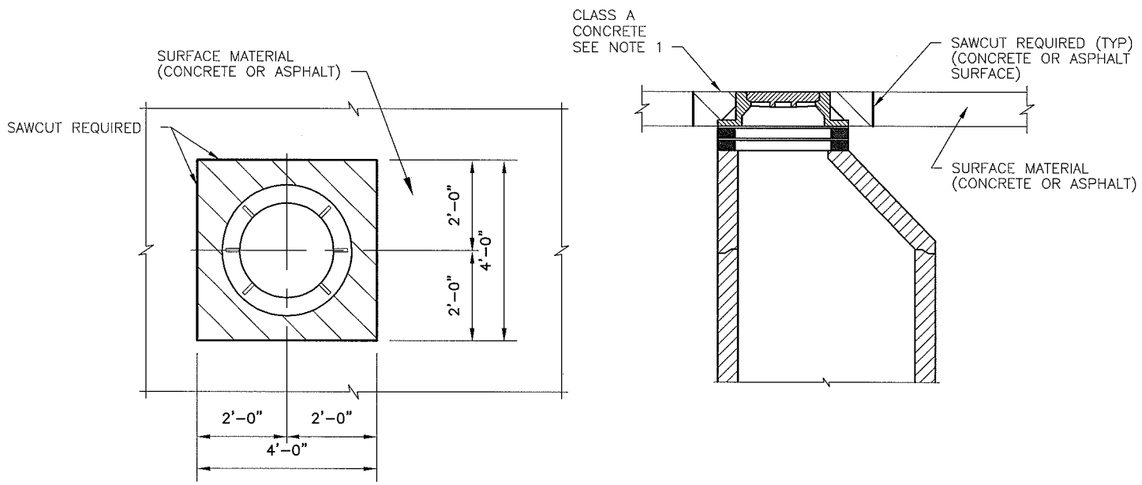
FILE: 0791EG09 1:1 11/15/10 12:46 GH-A



DETAIL 1/G4

SCALE: 1"=20'



SURFACE REMOVAL AND REPLACEMENT LIMITS

SCALE: NOT TO SCALE

(REQUIRED WHEN INSTALLATION OF NEW CASTING AND REALIGNMENT /ADJUSTMENT OF EXISTING CASTING AND CHIMNEY)

NOTES:

1. PROVIDE CLASS A CONCRETE OR HMA REPAIR THICKNESS TO MATCH EXISTING PAVEMENT THICKNESS OR 8" MINIMUM, WHICHEVER IS GREATER.

DIG AND REPLACE SEWER REPAIR NOTES:

1. COMPLETE WORK UNDER THE CONSTRAINTS LISTED IN SPEC SECTION 01110.
2. LOCATION AND ELEVATIONS SHOWN FOR EXISTING SANITARY SEWER ARE APPROXIMATE. LOCATE ALL UTILITIES PRIOR TO BEGINNING WORK. SUPPORT, PROTECT AND RESTORE ALL UTILITIES AND APPURTENANCES AS REQUIRED TO COMPLETE THE WORK.
3. CONTAIN CONSTRUCTION OPERATIONS WITHIN THE LIMITS OF THE RIGHT-OF-WAY OR EASEMENTS INDICATED ON THE DRAWINGS.
4. PROVIDE EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH SPEC SECTION 02370.
5. PROVIDE EARTH RETENTION SYSTEM IN ACCORDANCE WITH SPECIFICATION SECTION 02251. PROVIDE TEMPORARY CONSTRUCTION FENCE AROUND ALL WORK AREAS AND OPEN EXCAVATIONS.
6. CONDUCT PRE-CONSTRUCTION CLOSED-CIRCUIT TELEVISION INSPECTION OF SANITARY SEWER TO CONFIRM LIMITS OF REPLACEMENT. PERFORM WORK IN ACCORDANCE SPEC SECTION 02651.
7. VERIFY SIZE AND TYPE OF EXISTING SANITARY SEWER. FOR BIDDING PURPOSES ASSUME 24" DIAMETER, CLASS IV, REINFORCED CONCRETE PIPE.
8. INSTALL NEW SEWER REACH AT A CONSTANT SLOPE MATCHING THE UPSTREAM AND DOWNSTREAM INVERT ELEVATIONS IN ACCORDANCE WITH SPEC SECTION 02763.
9. CONDUCT POST-CONSTRUCTION CLOSED-CIRCUIT TELEVISION INSPECTION.
10. RESTORE AREA TO ITS PRE-CONSTRUCTION CONDITION.

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SCALE: AS NOTED

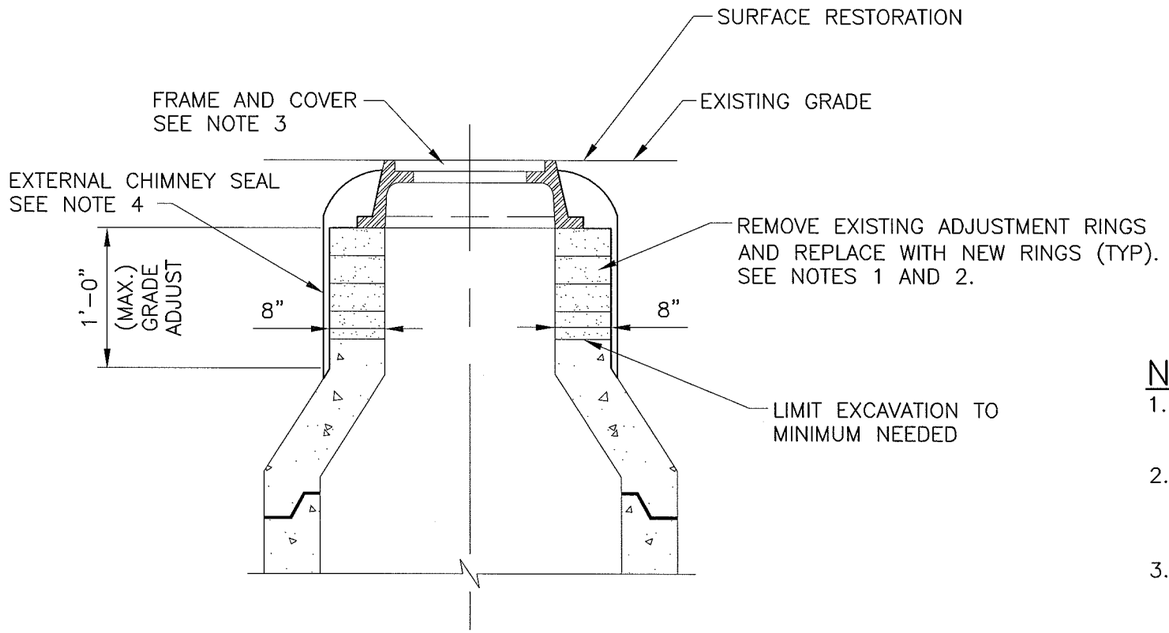
CITY OF WEST LAFAYETTE, INDIANA
NORTH RIVER ROAD INTERCEPTOR
SEWER REHABILITATION

GENERAL

DETAILS

FILE NAME: 0791EG10.DWG
SHEET 10 OF 13
DATE NOVEMBER 2010 REV 0

FILE: 0791EG10 1:1 11/17/10 09:07 GH-A



MANHOLE FRAME ADJUSTMENT

NOT TO SCALE

NOTES:

1. PROVIDE PRECAST CONCRETE ADJUSTMENT RINGS CONFORMING TO ASTM C478 FOR ADJUSTING FRAME AND COVER TO GRADE.
2. PRECAST CONCRETE ADJUSTMENT RING AND MANHOLE FRAME TO BE SET ON TWO ROWS OF BUTYL JOINT MATERIAL AND SQUEEZED OUT WHEN JOINT IS MADE.
3. PROVIDE HEAVY DUTY FRAME WITH GASKET SEALED, BOLTED SOLID COVER, WITH THE CITY OF WEST LAFAYETTE LOGO AND THE WORDS "WASTE WATER" CAST IN EACH COVER. PROVIDE EJIW NO. 1022Z1PT OR NEENAH NO. R-1916-C. SUPPLY BRASS HEXHEAD BOLTS.
4. INSTALL EXTERNAL CHIMNEY SEAL AS MANUFACTURED BY CRETEX SPECIALTY PRODUCTS, ADAPTOR, INC. OR EQUAL.
5. THE COST OF ALL WORK REQUIRED BY THE DETAILS SHOWN SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS CONTRACT ITEMS AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.

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CITY OF WEST LAFAYETTE, INDIANA
NORTH RIVER ROAD INTERCEPTOR
SEWER REHABILITATION

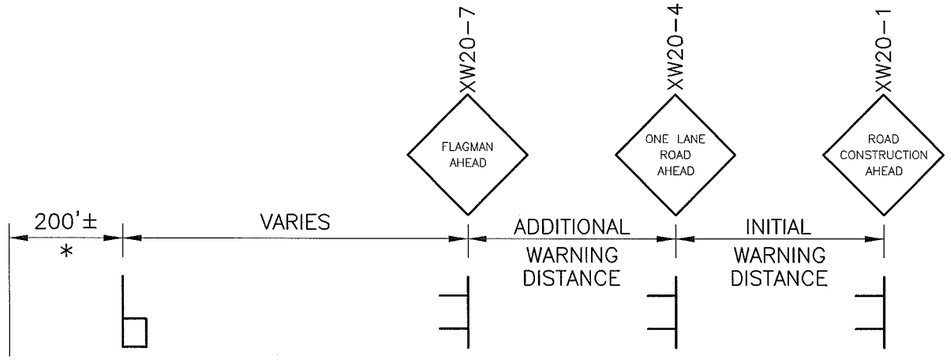
GENERAL

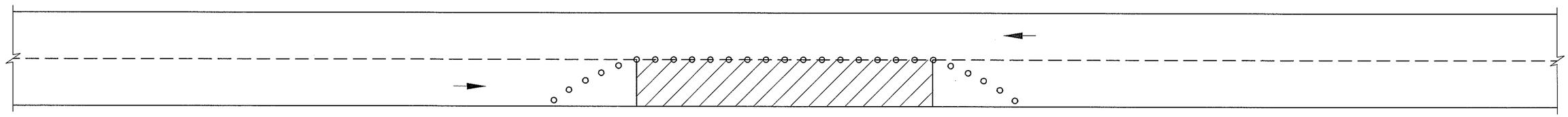
DETAILS

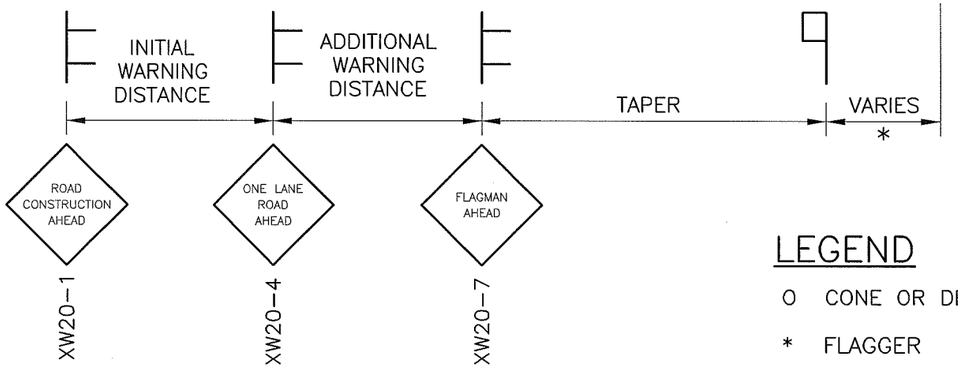
FILE NAME: 0791EG11.DWG
SHEET 11 OF 13
DATE NOVEMBER 2010 REV 0

FILE: 0791EG11 1:1 11/17/10 16:18 GH-A

SPEED LIMIT (MPH)	INITIAL WARNING (FT)	ADDITIONAL WARNING (FT)	TAPER (FT)	CONES (EA)	TAPER CONE SPACING (FT)
25	250	125	125	6	25
30	325	175	180	7	30
35	400	200	245	8	35
40	475	250	320	9	40
45	550	275	540	13	45
50	625	300	600	13	50
55	700	350	660	13	55







LEGEND

O CONE OR DRUMS

* FLAGGER

SIGN

NOTES:

1. THIS SHEET CONTAINS DETAILS FOR SUGGESTED MAINTENANCE OF TRAFFIC METHODS FOR LANE CLOSURES. THIS IS PROVIDED TO ASSIST THE CONTRACTOR IN DEVELOPING HIS/HER OWN MAINTENANCE OF TRAFFIC PLAN.
2. THE MINIMUM DISTANCE IS 300 FEET AND THE MAXIMUM DISTANCE IS ONE BLOCK, WHICHEVER IS LESS.
3. LANE CLOSURE MAY OCCUR ONLY FROM 8:30 AM TO 4:00 PM.
4. CONTRACTOR WILL BE PREQUALIFIED BY INDOT TO INSTALL TRAFFIC CONTROL DEVICES AND SIGNAGE FOR THIS PROJECT.
5. CONTRACTOR SHALL FOLLOW PAGES 6H-24 AND 6H-25 OF THE 2008 INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

* LOCATION OF FLAGMEN AND SIGNS SHALL VARY ACCORDING TO CHANGING CONDITIONS SUCH AS DISTANCES BETWEEN INTERSECTION, SIGHT DISTANCES AND SPEED OF TRAFFIC FLOWS.

SUGGESTED MAINTENANCE OF TRAFFIC FOR LANE CLOSURE ON TWO-LANE ROAD

SCALE: NOT TO SCALE

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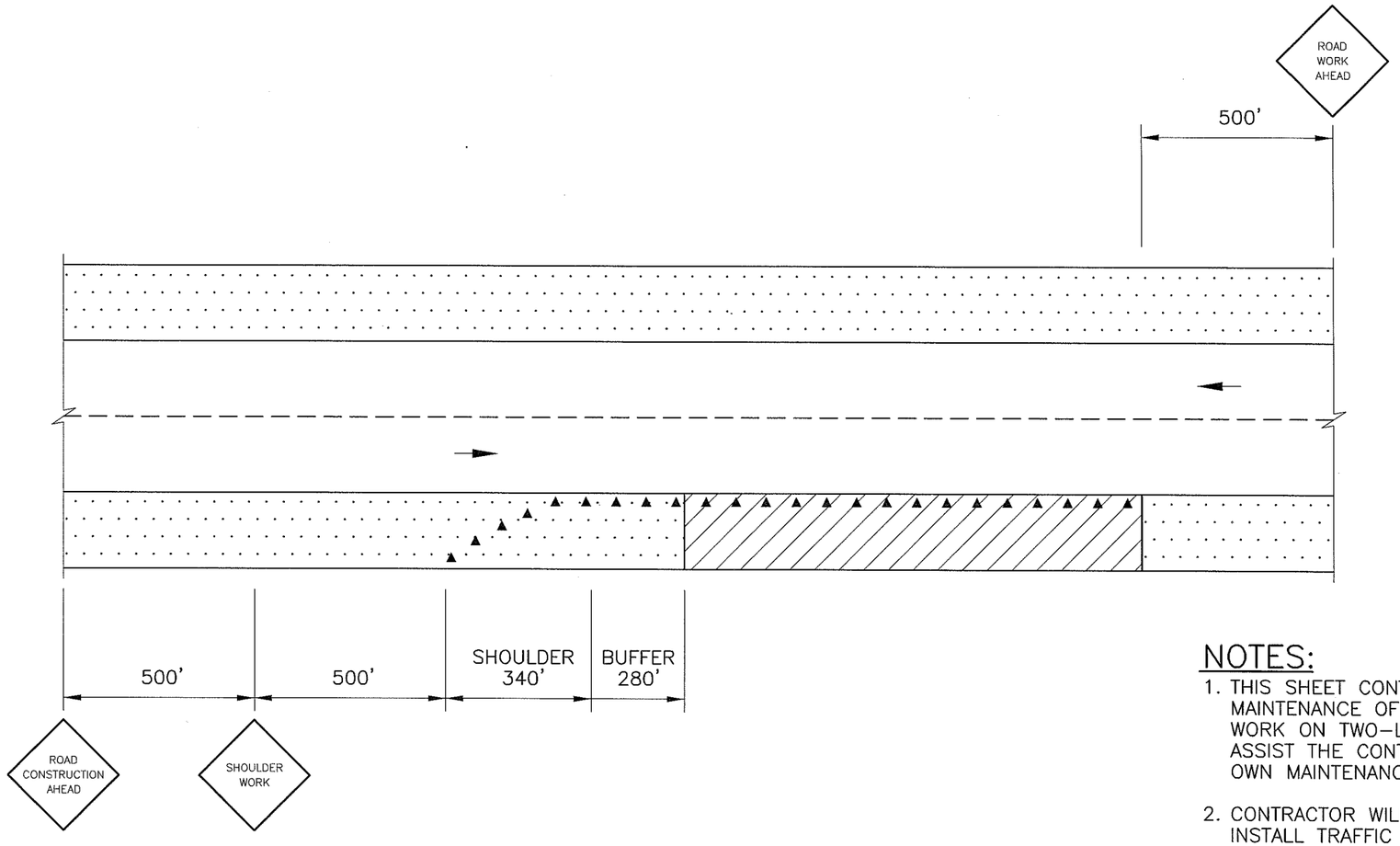
CITY OF WEST LAFAYETTE, INDIANA
NORTH RIVER ROAD INTERCEPTOR
SEWER REHABILITATION

GENERAL
SUGGESTED MAINTENANCE OF TRAFFIC FOR LANE CLOSURE ON TWO-LANE ROAD

FILE NAME: 0791EG12.DWG
SHEET 12 OF 13
DATE NOVEMBER 2010 REV 0

FILE: 0791EG12 1:1 11/17/10 16:18 GH-A



SUGGESTED MAINTENANCE OF TRAFFIC FOR SHOULDER WORK ON TWO-LANE ROAD

SCALE: NOT TO SCALE

NOTES:

1. THIS SHEET CONTAINS DETAILS FOR SUGGESTED MAINTENANCE OF TRAFFIC METHODS FOR SHOULDER WORK ON TWO-LANE ROAD. THIS IS PROVIDED TO ASSIST THE CONTRACTOR IN DEVELOPING HIS/HER OWN MAINTENANCE OF TRAFFIC PLAN.
2. CONTRACTOR WILL BE PREQUALIFIED BY INDOT TO INSTALL TRAFFIC CONTROL DEVICES AND SIGNAGE FOR THIS PROJECT.
3. CONTRACTOR SHALL FOLLOW PAGES 6H-16 AND 6H-17 OF THE 2008 INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

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CITY OF WEST LAFAYETTE, INDIANA
NORTH RIVER ROAD INTERCEPTOR
SEWER REHABILITATION

GENERAL
SUGGESTED MAINTENANCE OF TRAFFIC FOR
SHOULDER WORK ON TWO-LANE ROAD

FILE NAME: 0791EG13.DWG
SHEET 13 OF 13
DATE NOVEMBER 2010 REV 0

FILE: 0791EG13 1:1 11/17/10 16:19 GH-A