

Garcia Consulting Engineers

7501 Indianapolis Blvd. | 201 N. Illinois St.
Hammond, IN | 16th Floor
Ph: 219.989.1954 | South Tower
Toll Free: 866.989.1954 | Indianapolis, IN
Fax: 219.989.3322 | 317.610.3280



www.garcia-consulting.com

COPYRIGHT

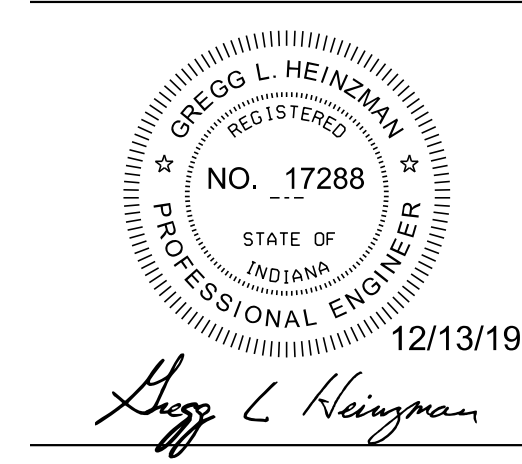
THE DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS PREPARED BY GARCIA CONSULTING ENGINEERS (GLE) FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE WITH RESPECT TO THIS PROJECT. GLE SHALL BE DEEMED AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT. ©1994-2019 Garcia Consulting Engineers

CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED DIMENSIONS AND CONDITIONS AT THE JOB SITE AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE THESE DRAWINGS.

DATE: 09/12/2019
PROJECT No: lcrb-19-0103
DRAWN: SLP CHECKED: JEG
FILE NAME: 2019 0805 Plans.dgn

REVISION DESCRIPTION DATE

REVISION	DESCRIPTION	DATE



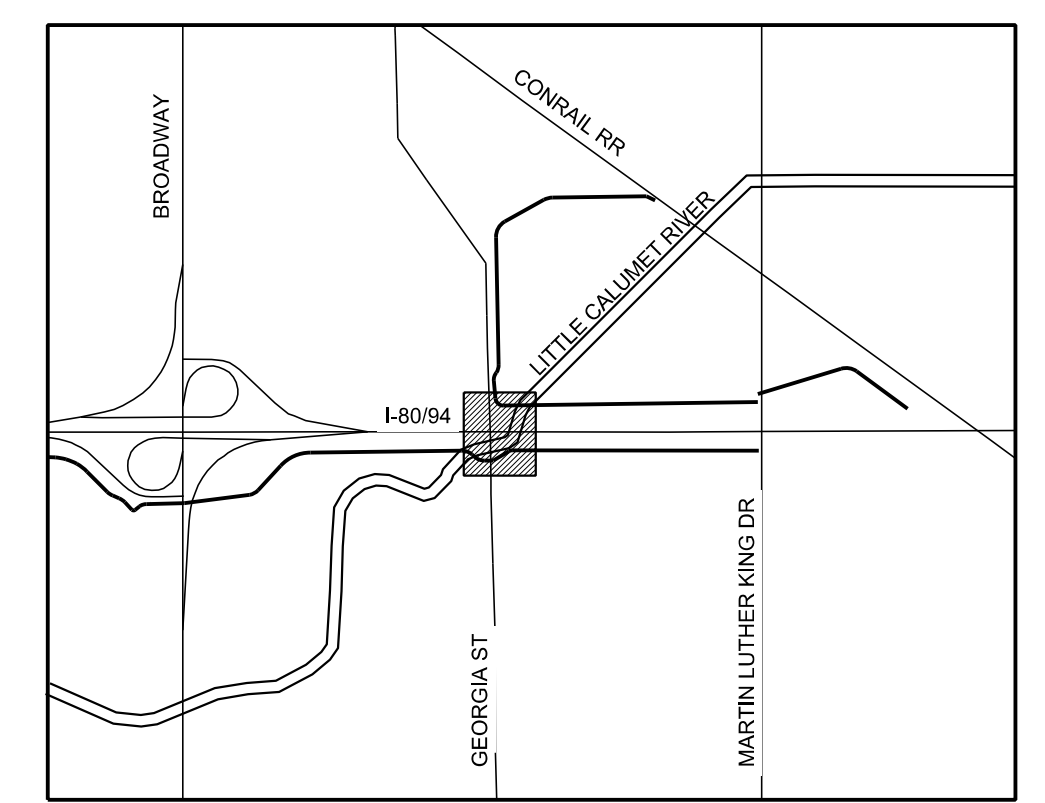
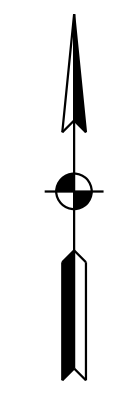
Title Sheet

**Little Calumet River
80-94 Culvert Crossing**

**Prepared for:
Little Calumet River
Basin Development
Commission**

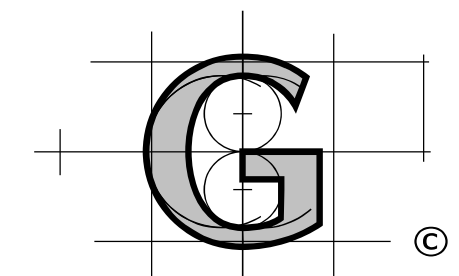
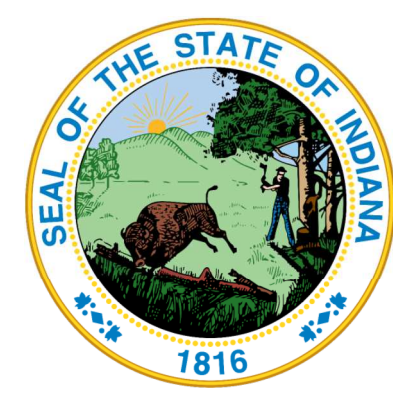
900 Ridge Road, Suite H
Munster, IN 46321

Little Calumet River 80-94 Culvert Crossing Gary, Indiana



**LITTLE CALUMET RIVER BASIN DEVELOPMENT
COMMISSION MEMBERS**

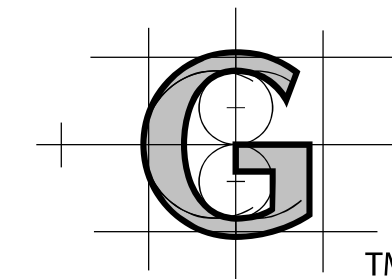
- WILLIAM BAKER, Chairman
- TOM WICHLINSKI, Vice Chairman
- THOMAS GOZDECKI, Treasurer
- LEVON WHITTAKER, Secretary
- ANTHONY BROADNAX, Member
- DAVID CASTELLANOS, Member
- DEREK NIMETZ, DNR Representative
- RONALD WARE, JR., Member
- DANIEL REPAY, Executive Director
- DAVID WICKLAND, Commission Attorney



Garcia Consulting Engineers
7501 Indianapolis Boulevard
Hammond, IN 46324
219.989.1954
www.garcia-consulting.com

INDIANA DEPARTMENT OF TRANSPORTATION
CURRENT STANDARD SPECIFICATIONS & DETAIL
STANDARDS ARE TO BE USED WITH THESE PLANS

OCTOBER 2019



Garcia Consulting Engineers

7501 Indianapolis Blvd. | 201 N. Illinois St.
 Hammond, IN | 16th Floor
 Ph: 219.989.1954 | South Tower
 Toll Free: 866.989.1954 | Indianapolis, IN
 Fax: 219.989.3322 | 317.610.3280



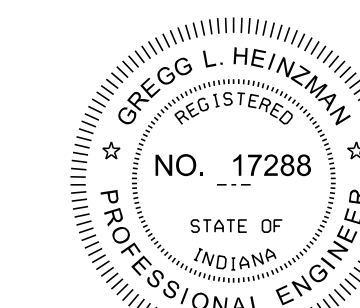
www.garcia-consulting.com

COPYRIGHT
 THE DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS PREPARED BY GARCIA CONSULTING ENGINEERS (GLE) FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE WITH RESPECT TO THIS PROJECT. GLE SHALL BE DEEMED AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT.
 ©1994-2019 Garcia Consulting Engineers

CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED DIMENSIONS AND CONDITIONS AT THE JOB SITE AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE THESE DRAWINGS.

DATE: 09/12/2019
 PROJECT No: lcrb-19-0103
 DRAWN: SLP CHECKED: JEG
 FILE NAME: 2019 0805 Plans.dgn

REVISION	DESCRIPTION	DATE



12/13/19
Gregg L. Heineman

Information Sheet

**Little Calumet River
 80-94 Culvert Crossing**

**Prepared for:
 Little Calumet River
 Basin Development
 Commission**

900 Ridge Road, Suite H
 Munster, IN 46321

SHEET 2 OF 6

UTILITIES

<p><u>GAS AND ELECTRIC</u> N.I.P.S.Co. 1460 E. 15TH AVENUE GARY, IN 46402 219-886-5671</p>	<p><u>SEWER</u> GARY SANITARY DISTRICT 3600 WEST 3RD AVENUE GARY, IN 46406 219-944-0595</p>	<p><u>ALL OTHER UTILITIES</u> INDIANA UNDERGROUND PLANT PROTECTION SERVICE 1-800-382-5544</p>
<p><u>TELEPHONE</u> AT&T 302 SOUTH EAST STREET CROWN POINT, IN 46307 219-662-4400</p>	<p><u>WATER</u> INDIANA AMERICAN WATER 650 MADISON STREET, P.O. BOX 64486 GARY, IN 46401 219-880-2331</p>	
<p><u>CABLE T.V.</u> COMCAST 844 - 169TH STREET HAMMOND, IN 46324 866-594-1234</p>	<p><u>GARY PUBLIC WORKS & SAFETY</u> 401 BROADWAY ST., SUITE 300 GARY, IN 46402 219-881-1310</p>	

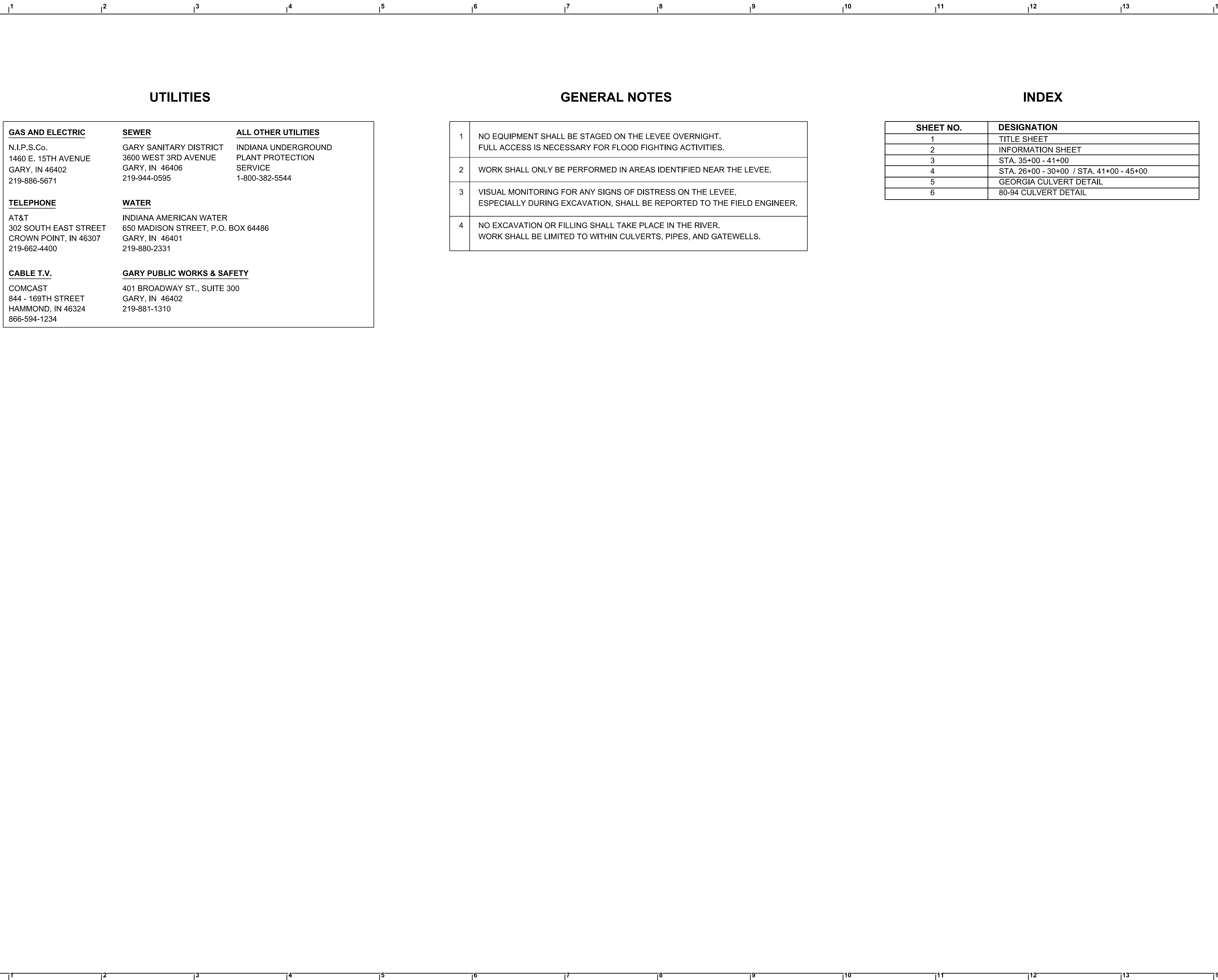
GENERAL NOTES

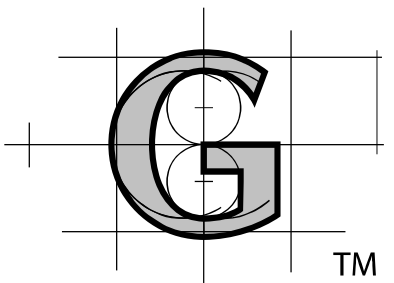
1	NO EQUIPMENT SHALL BE STAGED ON THE LEVEE OVERNIGHT. FULL ACCESS IS NECESSARY FOR FLOOD FIGHTING ACTIVITIES.
2	WORK SHALL ONLY BE PERFORMED IN AREAS IDENTIFIED NEAR THE LEVEE.
3	VISUAL MONITORING FOR ANY SIGNS OF DISTRESS ON THE LEVEE, ESPECIALLY DURING EXCAVATION, SHALL BE REPORTED TO THE FIELD ENGINEER.
4	NO EXCAVATION OR FILLING SHALL TAKE PLACE IN THE RIVER. WORK SHALL BE LIMITED TO WITHIN CULVERTS, PIPES, AND GATEWELLS.

INDEX

SHEET NO.	DESIGNATION
1	TITLE SHEET
2	INFORMATION SHEET
3	STA. 35+00 - 41+00
4	STA. 26+00 - 30+00 / STA. 41+00 - 45+00
5	GEORGIA CULVERT DETAIL
6	80-94 CULVERT DETAIL

A
B
C
D
E
F
G
H
I
J





Garcia Consulting Engineers

7501 Indianapolis Blvd. | 201 N. Illinois St.
Hammond, IN | 16th Floor
Ph: 219.989.1954 | South Tower
Toll Free: 866.989.1954 | Indianapolis, IN
Fax: 219.989.3322 | 317.610.3280



www.garcia-consulting.com

COPYRIGHT

THE DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS PREPARED BY GARCIA CONSULTING ENGINEERS (GLE) FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE WITH RESPECT TO THIS PROJECT. GLE SHALL BE DEEMED AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT. ©1994-2019 Garcia Consulting Engineers

CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED DIMENSIONS AND CONDITIONS AT THE JOB SITE AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE THESE DRAWINGS.

DATE: 09/12/2019
PROJECT No: lcrb-19-0103
DRAWN: SLP CHECKED: JEG
FILE NAME: 2019 0805 Plans.dgn

REVISION DESCRIPTION DATE

REVISION	DESCRIPTION	DATE

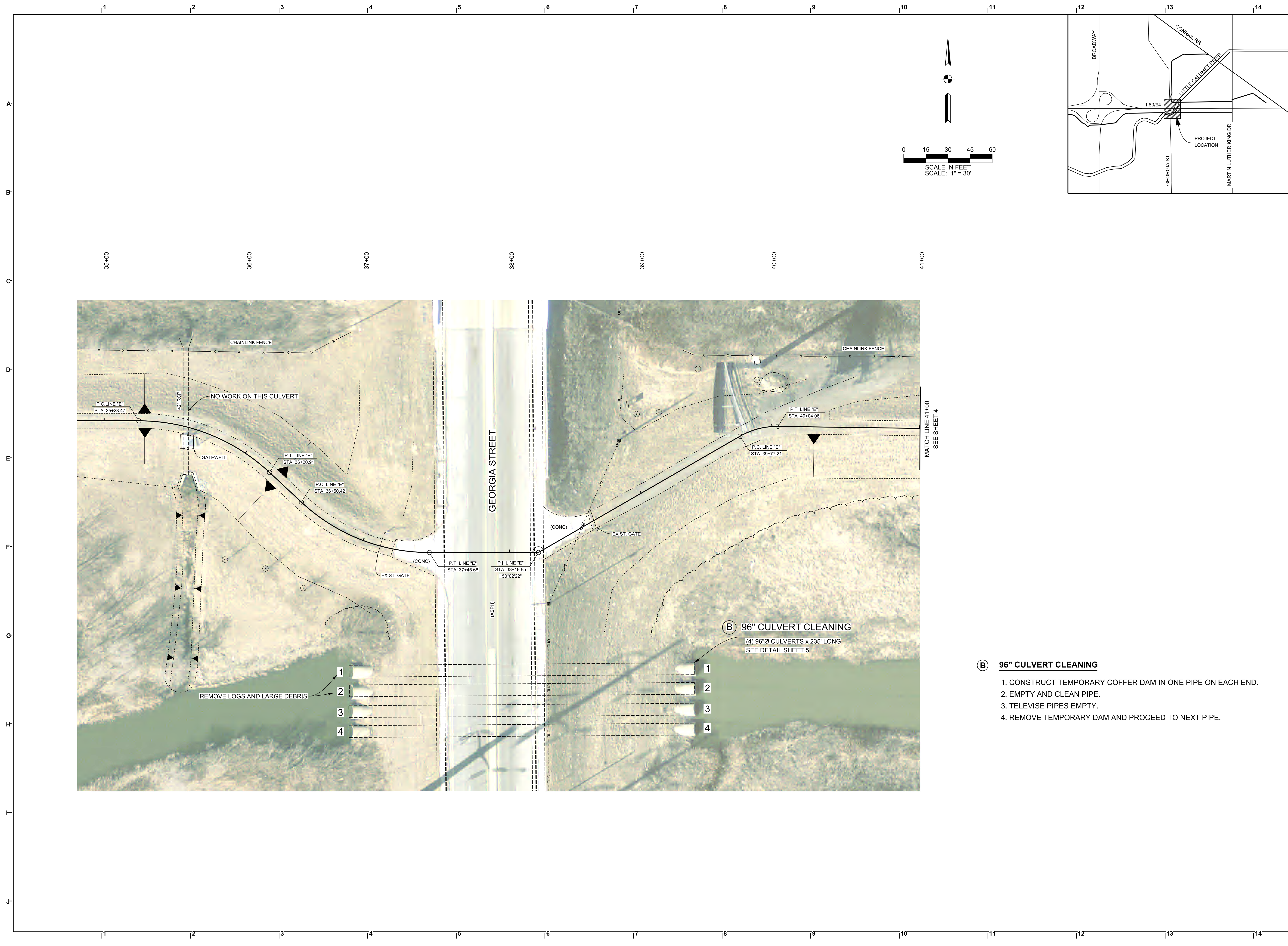
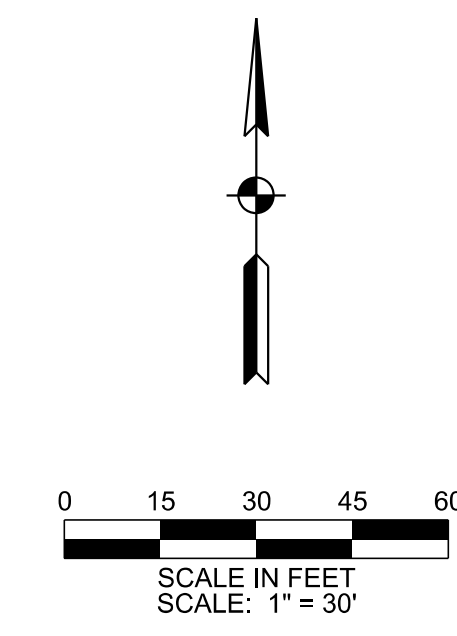
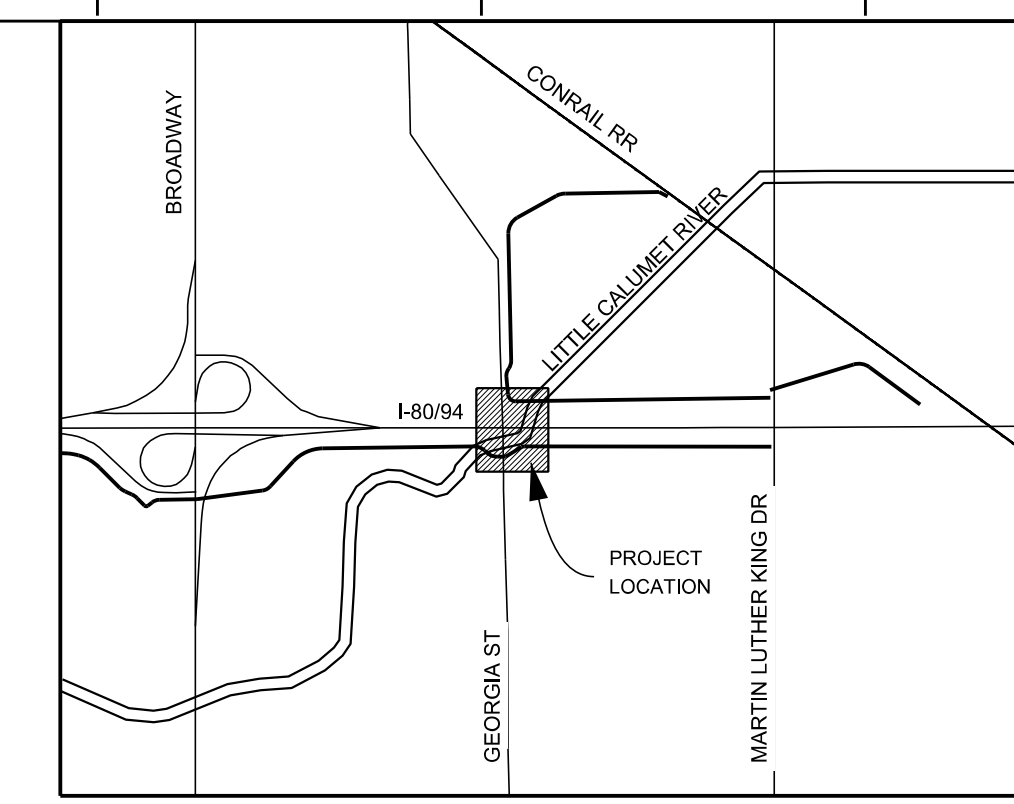
GREGG L. HEINEMAN
REGISTERED
NO. 17288
STATE OF INDIANA
PROFESSIONAL ENGINEER
12/13/19
Gregg L. Heineman

Sta. 35+00 - 41+00

Little Calumet River 80-94 Culvert Crossing

Prepared for:
Little Calumet River Basin Development Commission

900 Ridge Road, Suite H
Munster, IN 46321



(B) 96" CULVERT CLEANING
(4) 96"Ø CULVERTS x 235' LONG
SEE DETAIL SHEET 5

- (B) 96" CULVERT CLEANING**
1. CONSTRUCT TEMPORARY COFFER DAM IN ONE PIPE ON EACH END.
 2. EMPTY AND CLEAN PIPE.
 3. TELEVISION PIPES EMPTY.
 4. REMOVE TEMPORARY DAM AND PROCEED TO NEXT PIPE.

REMOVE LOGS AND LARGE DEBRIS

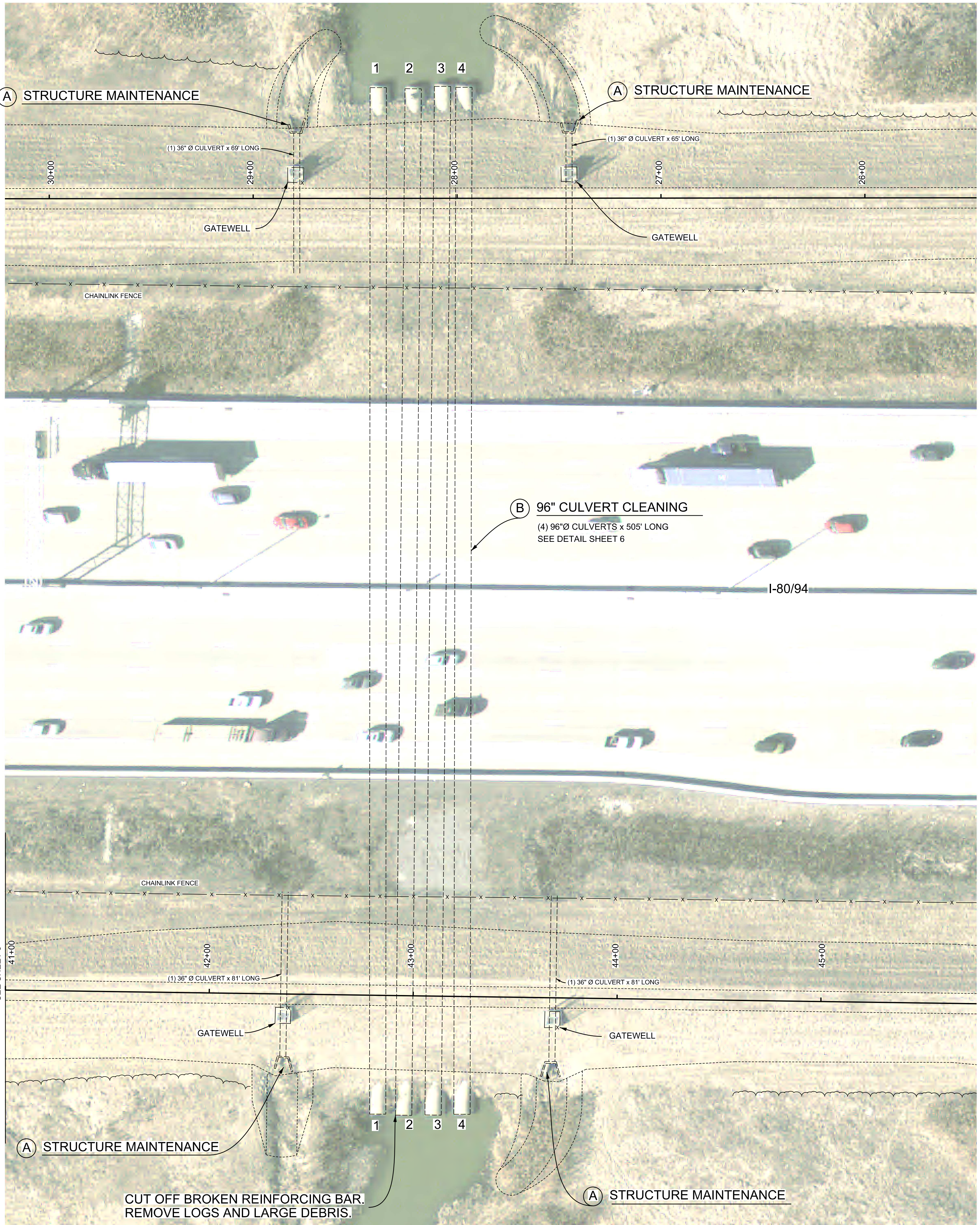
NO WORK ON THIS CULVERT

GEORGIA STREET

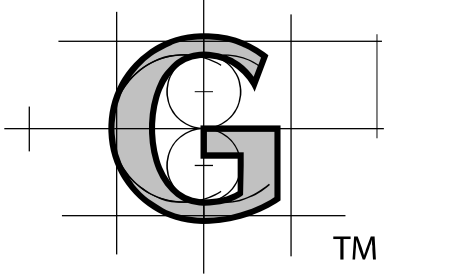
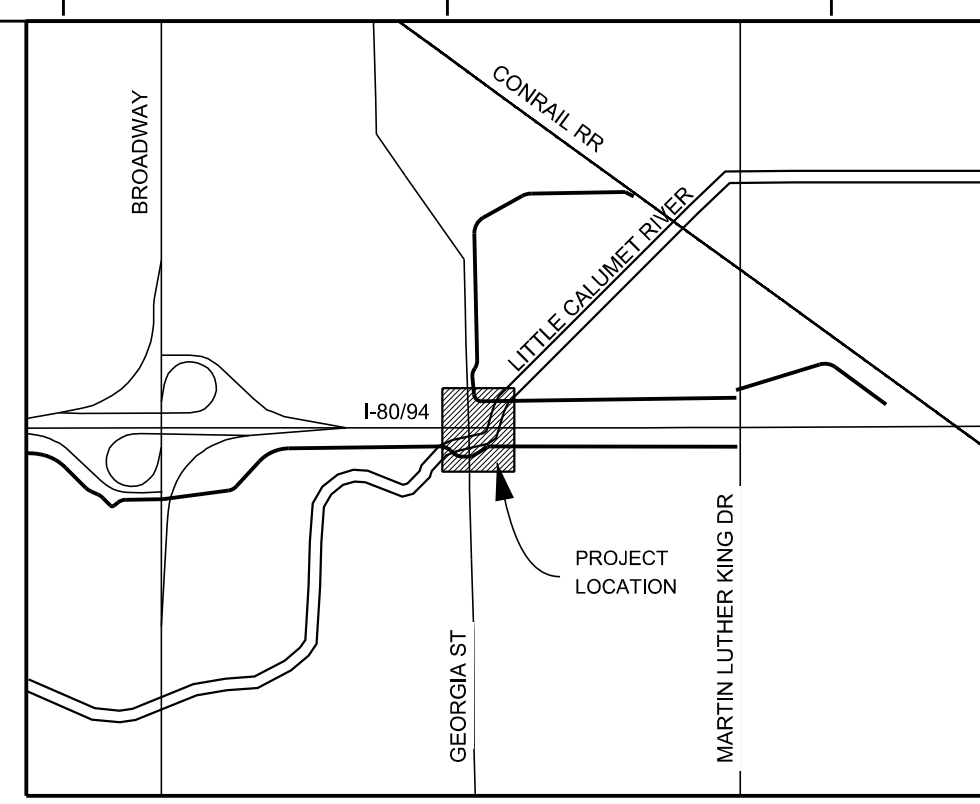
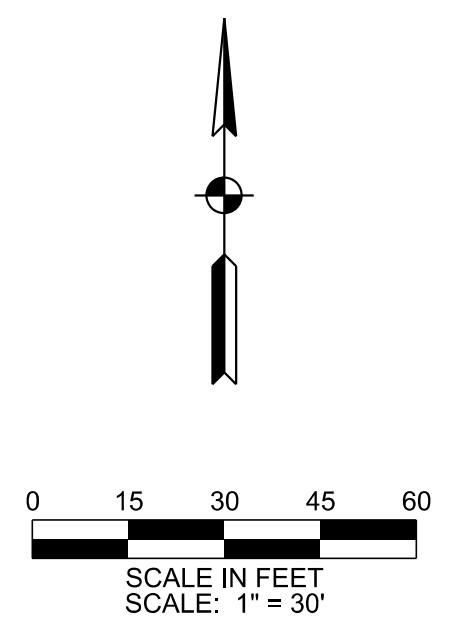
MATCH LINE 41+00
SEE SHEET 4

1 2 3 4 5 6 7 8 9 10 11 12 13 14

A
B
C
D
E
F
G
H
I
J



MATCH LINE STA. 41+00
SEE SHEET 3



Garcia Consulting Engineers

7501 Indianapolis Blvd.
Hammond, IN
Ph: 219.989.1954
Toll Free: 866.989.1954
Fax: 219.989.3322

201 N. Illinois St.
16th Floor
South Tower
Indianapolis, IN
317.610.3280

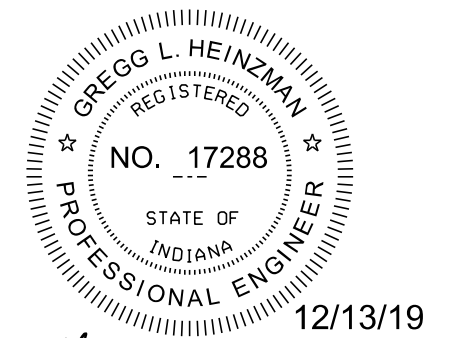
www.garcia-consulting.com

COPYRIGHT
THE DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS PREPARED BY GARCIA CONSULTING ENGINEERS (GLE) FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE WITH RESPECT TO THIS PROJECT. GLE SHALL BE DEEMED AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT. ©1994-2019 Garcia Consulting Engineers

CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED DIMENSIONS AND CONDITIONS AT THE JOB SITE AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE THESE DRAWINGS.

DATE: 09/12/2019
PROJECT No: lcrb-19-0103
DRAWN: SLP CHECKED: JEG
FILE NAME: 2019 0805 Plans.dgn

REVISION	DESCRIPTION	DATE



12/13/19
Gregg L. Heinmann

Sta. 26+00 - 30+00 /
Sta. 41+00 - 45+00

**Little Calumet River
80-94 Culvert Crossing**

Prepared for:
**Little Calumet River
Basin Development
Commission**

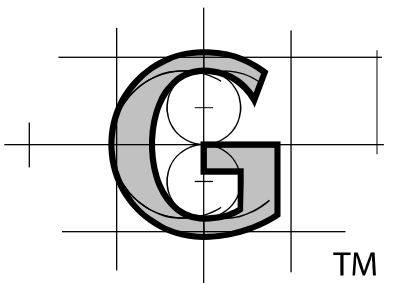
900 Ridge Road, Suite H
Munster, IN 46321

- (A) STRUCTURE MAINTENANCE**
1. REMOVE SILT & DEBRIS FROM BOTH HEADWALLS DOWN TO CONCRETE BOTTOM.
 2. CLEAN 36" Ø PIPE
 3. CLEAN GATEWELLS (7' X 7' X 14' DEEP)
 4. TELEWISE PIPE EMPTY.
 5. CLEAR ANY OBSTRUCTIONS AROUND OUTLET FLAP GATES.
 6. OPERATE EACH FLAPGATE (ENGINEER TO WITNESS).

IT MAY BE NECESSARY TO CONSTRUCT A TEMPORARY COFFER DAM WITH SANDBAGS AT THE ENDS OF EACH HEADWALL IN ORDER TO REMOVE WATER & ENSURE PROPER CLEANING & INSPECTION. ENGINEER TO BE NOTIFIED 48 HOURS PRIOR TO DAM CONSTRUCTION. DAM MUST BE REMOVED BY THE END OF EACH WORKING DAY.

- (B) 96" CULVERT CLEANING**
1. CONSTRUCT TEMPORARY COFFER DAM IN ONE PIPE ON EACH END.
 2. EMPTY AND CLEAN PIPE.
 3. TELEWISE PIPES EMPTY.
 4. REMOVE TEMPORARY DAM AND PROCEED TO NEXT PIPE.

CUT OFF BROKEN REINFORCING BAR.
REMOVE LOGS AND LARGE DEBRIS.



Garcia Consulting Engineers

7501 Indianapolis Blvd. | 201 N. Illinois St.
Hammond, IN | 16th Floor
Ph: 219.989.1954 | South Tower
Toll Free: 866.989.1954 | Indianapolis, IN
Fax: 219.989.3322 | 317.610.3280

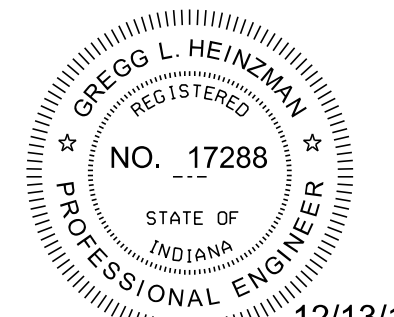
www.garcia-consulting.com

COPYRIGHT
THE DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS PREPARED BY GARCIA CONSULTING ENGINEERS (GLE) FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE WITH RESPECT TO THIS PROJECT. GLE SHALL BE DEEMED AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT. ©1994-2019 Garcia Consulting Engineers

CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED DIMENSIONS AND CONDITIONS AT THE JOB SITE AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE THESE DRAWINGS.

DATE: 09/12/2019
PROJECT No: lcrb-19-0103
DRAWN: SLP CHECKED: JEG
FILE NAME: 2019 0805 Plans.dgn

REVISION	DESCRIPTION	DATE



12/13/19
Gregg L. Heineman

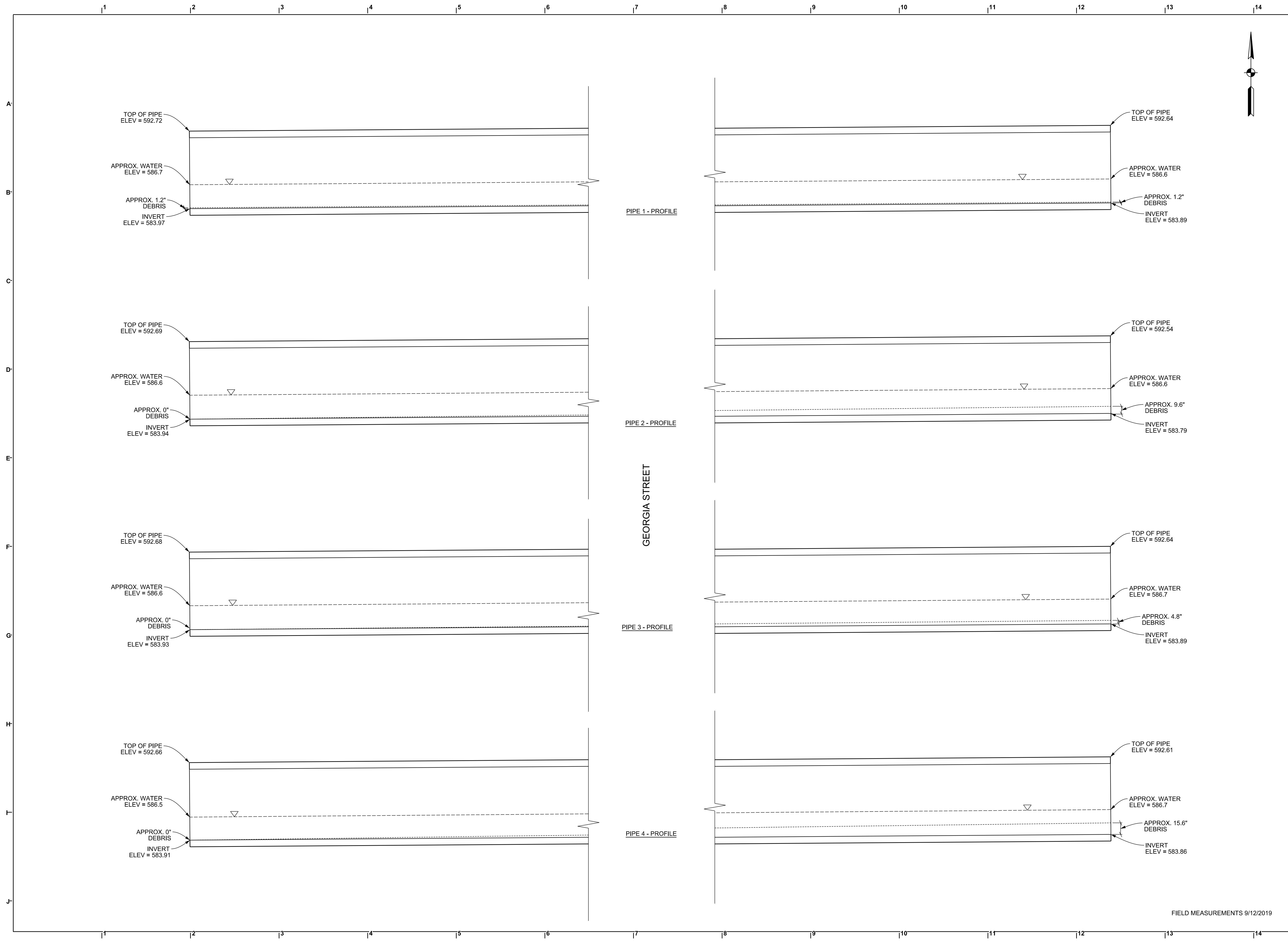
Georgia St. Culverts

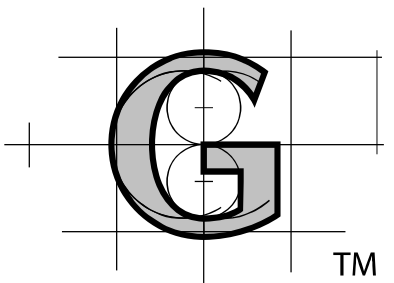
**Little Calumet River
80-94 Culvert Crossing**

**Prepared for:
Little Calumet River
Basin Development
Commission**

900 Ridge Road, Suite H
Munster, IN 46321

SHEET 5 OF 6





Garcia Consulting Engineers

7501 Indianapolis Blvd. | 201 N. Illinois St.
Hammond, IN | 16th Floor
Ph: 219.989.1954 | South Tower
Toll Free: 866.989.1954 | Indianapolis, IN
Fax: 219.989.3322 | 317.610.3280

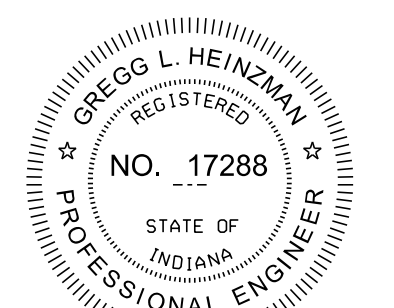
www.garcia-consulting.com

COPYRIGHT
THE DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS PREPARED BY GARCIA CONSULTING ENGINEERS (GLE) FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE WITH RESPECT TO THIS PROJECT. GLE SHALL BE DEEMED AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT. ©1994-2019 Garcia Consulting Engineers

CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED DIMENSIONS AND CONDITIONS AT THE JOB SITE AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. DO NOT SCALE THESE DRAWINGS.

DATE: 09/12/2019
PROJECT No: lcrb-19-0103
DRAWN: SLP CHECKED: JEG
FILE NAME: 2019 0805 Plans.dgn

REVISION	DESCRIPTION	DATE



12/13/19
Gregg L. Heinmann

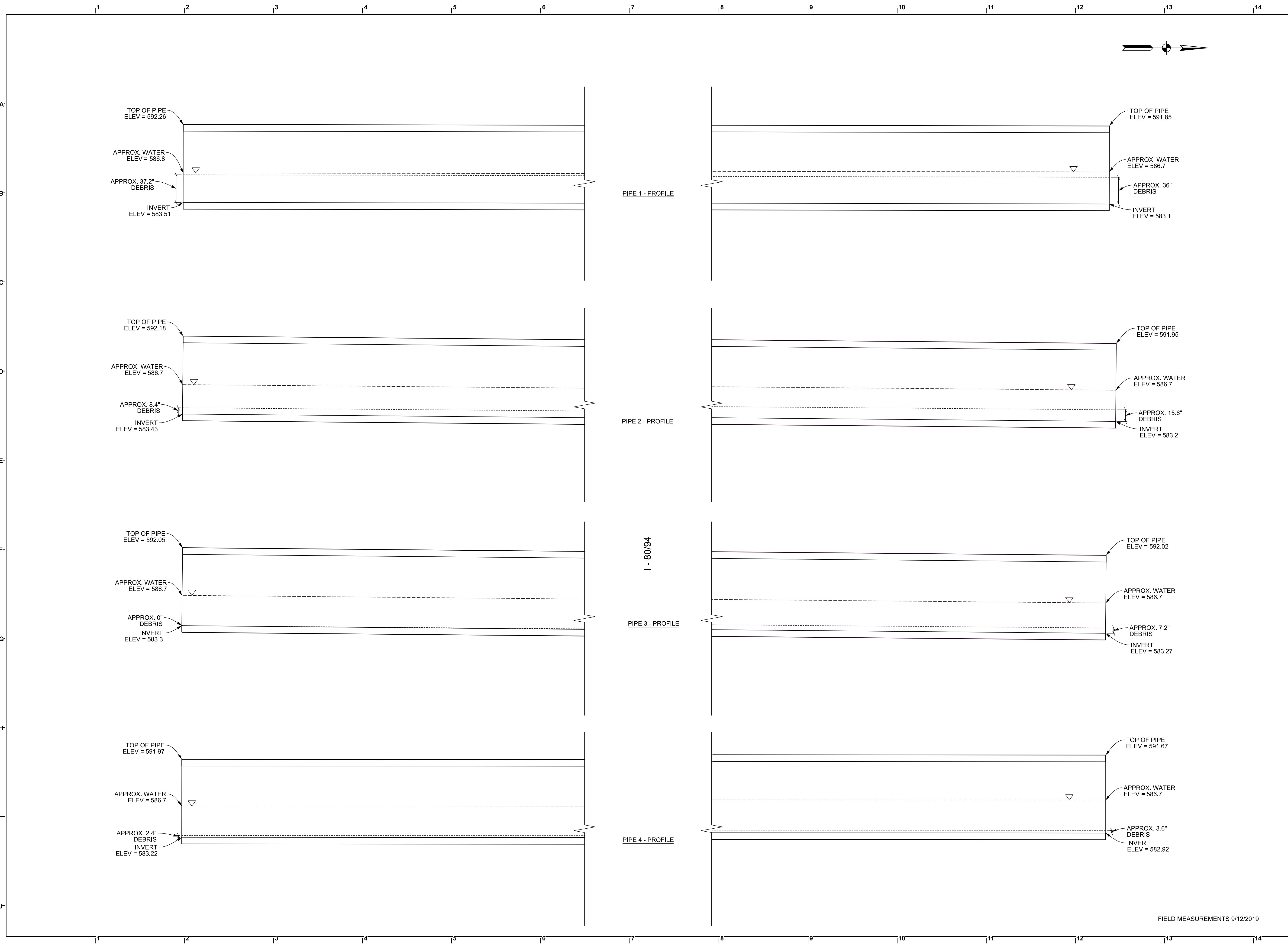
80-94 Culverts Detail

Little Calumet River
80-94 Culvert Crossing

Prepared for:
Little Calumet River
Basin Development
Commission

900 Ridge Road, Suite H
Munster, IN 46321

SHEET 6 OF 6



FIELD MEASUREMENTS 9/12/2019