The Project is located along former S.R. 312, beginning at the intersection of Gostlin Street and Brainard Avenue (Illinois / Indiana Stateline), continuing Easterly approximately 0.87 miles to the intersection of Sheffield Avenue and Chicago Street, and continuing Easterly approximately 0.37 miles to the intersection of Gostlin Street and Sheffield Avenue, continuing Southerly approximately 0.25 miles to the intersection of Gostlin Street and Brainard Avenue (Illinois / Indiana Stateline). Within Lake County, the Project is located within the City Limits of Hammond, Indiana in Sections 25 & 30, T-37-N, R-9-W & R-10-W, North Township.
Subgrade Treatment Type IB
9.5" Dense Graded Subbase on 7.0" PCCP, Colored,
Transition from 12'-0" to 13'-9" from 214+21.71 to 214+90.00 "PR-B"
Equals 12'-0" from 212+00.00 to 214+21.71 "PR-B"
Equals 6'-0" from 214+40.00 to 214+90.00 "PR-B"
Transition from 2'-0" to 6'-0" from 213+57.97 to 214+40.00 "PR-B"
Equals 0'-0" from 212+00.00 to 213+57.97 "PR-B"

Subgrade Treatment, Type IB
6" Dense Graded Subbase, on
385 #/Syd. QC/QA-HMA, 4, 64, Intermediate, 19.0 mm, on
165 #/Syd. QC/QA-HMA, 4, 64, Surface, 9.5 mm, on
Subgrade Treatment, Type IB
385 #/Syd. QC/QA-HMA, 4, 64, Base, 19.0 mm on
330 #/Syd. QC/QA-HMA, 4, 76, Intermediate, 19.0 mm, on
220 #/Syd. QC/QA-HMA, 4, 76, Surface, 12.5 mm, on
Existing Ground

Profile Grade

Equals 2.0% from 229+00.00 to 229+05.00 "PR-B"
Transition from 2.5% to 2.0% from 228+50.00 to 229+00.00 "PR-B"
Transition from 2.0% to 2.5% from 228+00.00 to 228+50.00 "PR-B"
Equals 2.0% from 224+30.00 to 228+00.00 "PR-B"
Transition from 11'-0" to 0'-0" from 228+05.00 to 229+82.38 "PR-B"
Equals 11'-0" from 225+30.00 to 228+05.00 "PR-B"
Transition from 0'-0" to 11'-0" from 224+30.00 to 225+30.00 "PR-B"
Transition from 6'-0" to 4'-3" from 235+11.50 to 235+60.44 "PR-B"
Equals 6'-0" from 218+60.00 to 235+11.50 "PR-B"
Transition from 2'-0" to 6'-6" from 235+11.50 to 235+60.44 "PR-B"
Equals 0'-0" from 218+60.00 to 235+11.50 "PR-B"
Equals 7'-6" from 234+90.00 to 235+50.00 "PR-B"
Transition from 0'-0" to 7'-6" from 234+53.33 to 234+90.00 "PR-B"
Equals 0'-0" from 218+80.90 to 234+53.33 "PR-B"
Transition from 6'-0" to 2'-0" from 218+50.00 to 218+80.90 "PR-B"
Equals 5'-0" from 234+90.00 to 235+60.44 "PR-B"
Transition from 6'-0" to 5'-0" from 234+40.00 to 234+90.00 "PR-B"
Equals 6'-0" from 218+80.90 to 234+40.00 "PR-B"
CONSTRUCTION (60" x 24") XG20-2

CLOSED ROAD (48" x 48") XW20-1

ROAD CONSTRUCTION AHEAD ROAD CLOSED THRU TRAFFIC TO

(48" x 30") R11-2

DETOUR ROAD AHEAD DETOUR ROAD CLOSED THRU TRAFFIC TO

(48" x 48") XW20-3

R11-4 DETOUR XM4-10 (R or L)

ROAD CLOSED ROAD CLOSED

(30" x 30") W1-4 (R or L)

XM4-10 (R or L)

1" = 500'
### SUMMARY OF QUANTITIES AND APPROACH TABLE

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<th>LOCATION (STATION)</th>
<th>DESCRIPTION (APPROACH CLASS)</th>
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<th>NEW DESIGN (FOR NEW)</th>
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<th>RADIUS</th>
<th>GRADE (BEYOND NOT GOWN)</th>
<th>EXCAVATION</th>
<th>OCTO-MAX MATERIAL FOR ROADS</th>
<th>MATERIAL FOR SLOPES</th>
<th>ASPHALT FOR</th>
<th>TYPE V COMPOUND FOR AGGREGATE FOR SURFACE</th>
<th>TYPE V COMPOUND FOR AGGREGATE FOR BASE</th>
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**INFORMATION**

- **DEPARTMENT OF TRANSPORTATION**
- **INDIANA**
- **P:\2011\00320\D. Drawings\201100320.RD.P2.XRF.TBLK.dgn**
### Summary of Quantities and Approach Table

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<th>Description</th>
<th>Width</th>
<th>Length</th>
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<th>Drainage</th>
<th>Material for Roads</th>
<th>Material for Sidewalks</th>
<th>Asphalt For</th>
<th>Remarks</th>
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**Notes:**
- Type: Indicates the type of material used for construction.
- Section: Reference section for specific details.
- Excavation: Information on excavation requirements.
- Drainage: Details on drainage systems.
- Material for Sidewalks: Details for sidewalk materials.
- Asphalt For: Information on asphalt application.

**Remarks:**
- Place any additional notes or remarks relevant to the construction project here.
### SUMMARY OF QUANTITIES AND APPROACH TABLE

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>DESCRIPTION (APPROACH)</th>
<th>WIDTH</th>
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<th>MATERIAL FOR SCHOOL</th>
<th>ASPHALT FOR</th>
<th>TYPE OF CONCRETE AGGREGATE FOR SURFACE</th>
<th>TYPE OF CONCRETE AGGREGATE FOR ROAD</th>
<th>R/W LINE BEYOND DISTANCE</th>
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**Remarks:**
- Sioux County Department of Transportation
- 102

**Indicators:**
- Horizontal Scale
- Vertical Scale
- Design Engineer
- Drawn
- Checked
- Recommended
- Date

**Source:**
- 05/17/2016
- 10:55:58 AM
- P:\2011\00320\D. Drawings\201100320.RD.P2.XRF.TBLK.dgn
PROJECT NO.
SHEETS
WATER MAIN
CHECKED:
DRAWN:
10:56:10 AM

PJT
Sheffield Ave.
P:\2011\00320\D. Drawings\201100320.EV.WM.PP.07.dgn

App. Exist. R/W

5/11/2016

App. Exist. R/W

Ex. Water To Be Removed
5 8 8
App. Exist. R/W

ex. 24" water

A p p . E x is t. R /W

588

8" VC

App. Exist. R/W

ex. 54" water

App. Exist. R/W

V

W

588

8" VC

App. Exist. R/W

ex. 16" water

App. Exist. R/W

Marble St.

36" PVC Sanitary Sewer

Pipe To Be Removed

App. Exist. R/W

Service To Be Reconnected

App. Exist. R/W

Valve And Remove Valve Box

Operational, Permanently Close Existing
Once New Water Main Is Installed And

App. Exist. R/W

36" D.I. Water Main

36" RCP

App. Exist. R/W

Line "B"

App. Exist. R/W

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App. Exist. R/W

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App. Exist. R/W

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Drainage Details

Plan & Profile Sheets.

For Storm Sewer Profile, See Geometric Tie-In Details.

For Additional Alignment Information Line "PR-B", Except as Noted.

All Stationing Described From Noted.

Notes:

Str. No. 238
21' of 12" Pipe Req'd.
Catch Basin, Type "B-15" & +00.0 LT.

Str. No. 239
+00.0, 02.0' RT.
28' of 12" Pipe Req'd.
Catch Basin, Type "B-15" & +70.0 LT.
88' of 24" Pipe Req'd.
Manhole, Type "C-4" & Str. No. 241
+85.0, 03.0' LT.
Str. No. 242
18' of 12" Pipe Req'd.
Catch Basin, Type "R-13" & +90.0 RT.

Str. No. 302
28' of 12" Pipe Req'd.
Inlet, Type "B-15" & 4' of 12" Pipe Req'd.
Catch Basin, Type "B-15" & Str. No. 303
Str. No. 304
43' of 12" Pipe Req'd.
Manhole, Type "C-4" & Str. No. 305
23' of 12" Pipe Req'd.
Inlet, Type "B-15" & Str. No. 306
5' of 12" Pipe Req'd.
Catch Basin, Type "B-15" & 80' of 12" Pipe Req'd.
Manhole, Type "C-4" & Str. No. 307
Str. No. 308
23' of 12" Pipe Req'd.
Inlet, Type "B-15" & Str. No. 309
5' of 12" Pipe Req'd.
Catch Basin, Type "B-15" & 43' of 12" Pipe Req'd.
Manhole, Type "C-4" & Str. No. 310
DRAINAGE DETAILS

LINE "H"

[Diagram showing drainage details and annotations]

INDIANA DEPARTMENT OF TRANSPORTATION
DRAINAGE DETAILS
LINE "H"

[Additional details and notes related to the drainage system]
**EROSION CONTROL DETAILS**

**LINE "PR-B" & "S-1-B"**

**Chicago St.**

**Line "PR-B"**

**Line "S-1-B"**

**Sheffield Ave.**

**50+00**

**BEGIN PROJECT**

**52+97.47**

**BEGIN CONSTRUCTION**

**50+25.00**

**BEGIN CONSTRUCTION**

**NOTES:**

212+14.00 **"PR-B"**

**BEGIN PROJECT**

52+97.47 **"S-1-B"**

**BEGIN CONSTRUCTION**

**W**

**W**

**V**

**T**

**G**

**V**

**T**

**E**

**R**

**B**

**B**

**B**

**B**

**G**

**V**

**B**

**B**

**B**

**B**

**A**

**C**

**G**

**W**

**E**

**G**

36" **RCP**

8" **VCP**

10" **RCP**

10" **VCP**

**ex. 54" water**

**ex. 24" water**

**ex. 16" water**

**ex. 8" water**

**Temporary Silt Fence**

**LEGEND**

**CIP**

Curb Inlet Protection

**DIP**

Ditch Inlet Protection

**Filter Sock**
1. Permanent markings and information shown are shown here for informational purposes only. See applicable sheets for construction details.

2. All elevations & references referenced from Line "PR-B", unless otherwise noted.

3. Lane centerlines are shown here for informational purposes only. See applicable sheets for construction details.

4. Existing signals, poles, wiring, and signs shall be removed unless otherwise noted. Existing signal posts shall be removed to 2' below existing grade.

5. All materials used shall be in accordance with the procurement documents.

6. Contractor shall coordinate with electric utility company to confirm the feed for electrical service to the signal control system as shown on this plan.

7. Contractor is responsible for all electrical connections, feeding, and service. Contractor shall ensure all electrical connections are made in accordance with applicable codes and standards.

8. All signal system components shall be installed in accordance with the applicable codes and standards.

9. Contractor is responsible for all electrical connections, feeding, and service. Contractor shall ensure all electrical connections are made in accordance with applicable codes and standards.

10. Contractor shall ensure all electrical connections are made in accordance with applicable codes and standards.
### SUMMARY OF QUANTITIES AND APPROACH TABLE

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<th>TYPE &quot;V&quot; COMPACTION AGGREGATE FOR BASELINE</th>
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<th>SUMMARY BEYOND SURFACE</th>
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- **Remarks**
  - MAINLINE #/SYS.
  - BASE
  - HMA FOR ROADS MATERIAL QC/QA-HMA
  - ASPHALT FOR ROADS MateriaL HMA
  - FOR ROADS MATERIAL QC/QA-HMA
  - COAT S E A L TONS
  - COAT T A C K TONS
  - COAT T A C K TONS
  - COAT T A C K TONS
  - BASE AGGREGATE FOR COMPACTED TYPE "O"
  - BASE AGGREGATE COMPACTED TYPE "O"
  - SURFACE FOR AGGREGATE COMPACTED TYPE "O"
  - SUBBASE FOR DRIVEWAY CEMENT CONCRETE
  - R/W LINE

- **Date and File Details**
  - 5/11/2016
  - P:\2011\00320\D. Drawings\201100320.RD.P2.XRF.TBLK.dgn
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- **Type V Compound for Surface:** [Insert Type V Compound for Surface Data]
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**SUMMARY OF QUANTITIES AND APPROACH TABLE**

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- Horizontal Scale: 1/100
- Vertical Scale: 1/100

**DESIGNATED:**
- Bridge:
- Survey:

**NOTES:**
- Scale: 1/100
- Design:

**DEPARTMENT OF TRANSPORTATION**
- Indiana:

**SUMMARY OF QUANTITIES AND APPROACH TABLE**
- Type V:
- Type VI:

**MATERIALS:**
- Base:
- Mainline:
- Subbase:
- Teamwork for asphalt:
- Mix for asphalt:
- Material:

**QUANTITIES:**
- Tons:
- Cubic Yards:
- Square Feet:

**REMARKS:**
- Remarks:

**DATE:**
- May 11, 2016
- 10:56:25 AM

**FILE PATH:**
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**INDIANA DEPARTMENT OF TRANSPORTATION**

**STRUCTURE DATA**

**NOTE:** This table contains data for various structure elements, including pipe types and catch basins. The columns include station, location, description, number, pipe type, and other relevant information. The design engineer's name and department are also included.
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**INDEMNIFICATION**

**INDIANA DEPARTMENT OF TRANSPORTATION**

**STRUCTURE DATA TABLE**
| STATION | LOCATION | DESCRIPTION | LENGTH | SIZE | COVER | UPSTREAM | DOWNSTREAM | DATE | DEPTH | B calendar | L/FT | D/D | D/FT | TYPE | SECTION | MATERIAL | HYDRAULIC | CYL | CYL | D/D | D/FT | D/FT | TYPE | CYL | CYL | D/D | D/FT | D/FT | TYPE | REMARKS |
|---------|----------|-------------|--------|------|-------|----------|------------|------|-------|------------|------|-----|-------|------|----------|----------|------------|------|-----|-----|------|------|------|------|-----|-----|------|------|------|------|------|------|
| 317     | SDN-000  | C-15        | 507+70.0 | 12   | 2     | 583.22   | 583.10     | 75   | 6.8   | 1          | 5.8  | 1   |       |      |          |          |            | 6.5  | 1   | 1   | 5.8  | 1   |       | 6.5  | 1   | 1   | 5.8  | 1   |       | Connect to Catch 65 |
| 318     | SDN-000  | C-15        | 507+96.0 | 12   | 2     | 583.22   | 583.10     | 75   | 6.8   | 1          | 5.8  | 1   |       |      |          |          |            | 6.5  | 1   | 1   | 5.8  | 1   |       | 6.5  | 1   | 1   | 5.8  | 1   |       |          |
| 320     | SDN-000  | C-15        | 508+00.0 | 12   | 2     | 583.22   | 583.10     | 75   | 6.8   | 1          | 5.8  | 1   |       |      |          |          |            | 6.5  | 1   | 1   | 5.8  | 1   |       | 6.5  | 1   | 1   | 5.8  | 1   |       |          |
| 320     | SDN-000  | M-4         | 508+00.0 | 12   | 2     | 583.22   | 583.10     | 75   | 6.8   | 1          | 5.8  | 1   |       |      |          |          |            | 6.5  | 1   | 1   | 5.8  | 1   |       | 6.5  | 1   | 1   | 5.8  | 1   |       |          |

**INDIANA DEPARTMENT OF TRANSPORTATION**

**STRUCTURE DATA**

| STRUCTURE NO. | LOCATION | DESCRIPTION | LENGTH | SIZE | COVER | UPSTREAM | DOWNSTREAM | DATE | DEPTH | B calendar | L/FT | D/D | D/FT | TYPE | SECTION | MATERIAL | HYDRAULIC | CYL | CYL | D/D | D/FT | D/FT | TYPE | CYL | CYL | D/D | D/FT | D/FT | TYPE | REMARKS |
|---------------|----------|-------------|--------|------|-------|----------|------------|------|-------|------------|------|-----|-------|------|----------|----------|------------|------|-----|-----|------|------|------|------|-----|-----|------|------|------|------|------|------|