Appendix E. Engineering Drawings

(Part 1 of 10)
NORTHERN INDIANA COMMUTER TRANSPORTATION DISTRICT

WEST LAKE CORRIDOR
MILEPOST 61.38 TO MILEPOST 69.18
DYER TO HAMMOND, INDIANA

ROADWAY PLANS

PROJECT MAP
Not to Scale

BEGIN PROJECT

END PROJECT
<table>
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</table>
MUNSTER DYER STATION ENTRANCE
ROADWAY TYPICAL SECTIONS

PROPOSED MUNSTER DYER STATION ENTRANCE
STA. 984+60 TO STA. 996+00

PROPOSED MUNSTER DYER STATION ENTRANCE
STA. 984+60 TO STA. 996+00

PROPOSED LEGEND:
- Proposed HMA pavement:
  - HMA Base 4"
  - HMA Intermediate 2-1/2"
  - HMA Surface 1-1/2"

- Proposed concrete:
  - Concrete Curb and Gutter
  - Concrete Sidewalk 4"

- Proposed aggregate:
  - Aggregate Base 4"
  - Aggregate Wall

- Proposed handrail
- Proposed seeding and topsoil 4"

NOTE:
1. Proposed pavement section for streets in the town of Munster is assumed to match the pavement section provided by the city of Hammond.

2. THIS SHEET IS SUBJECT TO CHANGE WITHOUT NOTICE.
EXISTING LEGEND:
- EXISTING PCC PAVEMENT
- NOT USED
- EXISTING AGGREGATE SURFACE
- EXISTING CONCRETE CURB
- EXISTING SIDEWALK
- EXISTING AGGREGATE BASE

NOTE:
1. PROPOSED PAVEMENT CROSS SLOPES WILL TRANSITION TO MEET THE EXISTING PAVEMENT CROSS SLOPES AND THE TRACK CROSSING GRADE.

PROPOSED LEGEND:
- PROPOSED PCC PAVEMENT
- PROPOSED AGGREGATE SURFACE
- PROPOSED CONCRETE CURB
- PROPOSED CONCRETE SIDEWALK 4"
- PROPOSED CONCRETE BASE 6"
- PROPOSED AGGREGATE BASE

NOT FOR CONSTRUCTION

EXISTING 165TH ST
STA. 1695+90 TO STA. 1703+85
EXISTING PAVEMENT CROSS SLOPES AND THE TRACK CROSSING GRADE.

PROPOSED 165TH ST
STA. 1699+50 TO STA. 1700+50
PROPOSED PAVEMENT CROSS SLOPES WILL TRANSITION TO MEET THE EXISTING PAVEMENT CROSS SLOPES AND THE TRACK CROSSING GRADE.
EXISTING LEGEND
- Existing return mood surface
- Existing return mood base
- Existing aggregate subbase
- Existing curb and gutter
- Existing sidewalk
- Existing aggregate base

NOTE:
1. No existing curb and gutter on Kenwood Street located west of Blaine Ave.

PROPOSED LEGEND
- Proposed HMA pavement:
  - HMA surface 1-1/2"
  - HMA intermediate 2-1/2"
  - HMA base 4"
- Proposed compacted aggregate 6"
- Proposed curb and gutter
- Proposed concrete sidewalk 4"
- Proposed aggregate base 4"
- Proposed seeding and topsoil 4"

NOTE:
1. Proposed pavement cross slopes will transition to meet the existing pavement cross slopes and the track crossing grade.
<table>
<thead>
<tr>
<th><strong>EXISTING LEGEND</strong></th>
<th><strong>PROPOSED LEGEND</strong></th>
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<tbody>
<tr>
<td>Existing Bitumen Surface</td>
<td>Proposed HMA Pavement:</td>
</tr>
<tr>
<td>Existing Bitumen Base</td>
<td>HMA Surface 1-1/2&quot;</td>
</tr>
<tr>
<td>Existing Aggregate Subbase</td>
<td>HMA Intermediate 2-1/2&quot;</td>
</tr>
<tr>
<td>Existing Concrete Curb and Gutter</td>
<td>HMA Base 4&quot;</td>
</tr>
<tr>
<td>Existing Sidewalk</td>
<td>Proposed Concrete Curb and Gutter</td>
</tr>
<tr>
<td>Existing Aggregate Base</td>
<td>Proposed Compacted Aggregate 4&quot;</td>
</tr>
</tbody>
</table>

**NOT:** Proposed pavement cross slopes will transition to match the existing pavement cross slopes and the track crossing grade.

**NOT FOR CONSTRUCTION**
EXISTING HIGHLAND ST
STA. 2099+00 TO STA. 2101+00

EXISTING LEGEND

EXISTING Bituminous Surface
EXISTING Bituminous Base
EXISTING Aggregate Subbase
EXISTING Concrete Curb and Gutter
EXISTING Sidewalk
EXISTING Aggregate Base

PROPOSED HIGHLAND ST
STA. 2099+35 TO STA. 2100+60

PROPOSED LEGEND

PROPOSED HMA Pavement:
HMA Surface 1½"
HMA Intermediate 2½"
HMA Base 4"

PROPOSED Aggregate Base 4"

NOTE:
1. Proposed pavement cross slopes will transition to most the
existing pavement crown slopes and the trackcrossing grade.
**WABASH STREET ROADWAY TYPICAL SECTIONS**

EXISTING LEGEND:
- Existing HMA Pavement
- Existing HMA Surface
- Existing HMA Intermediate
- Existing HMA Base
- Existing Aggregate Subbase
- Existing Concrete Curb and Gutter

EXISTING WABASH ST
STA. 5604+00.00 TO STA. 5701+00.00

EXISTING CONCRETE CURB AND GUTTER
EXISTING AGGREGATE SUBBASE
EXISTING BITUMINOUS BASE
EXISTING BITUMINOUS SURFACE

P4
P5
P6

PROPOSED LEGEND:
- Proposed HMA Pavement
- Proposed HMA Surface 1/2"
- Proposed HMA Intermediate 2-1/2"
- Proposed HMA Base 4"
- Proposed Aggregate Curbing
- Proposed Concrete Curb and Gutter
- Proposed Seed and Topsoil 4"
- Not Used
- Not Used

PROPOSED WABASH ST
STA. 5697+40.71 TO STA. 5700+50.00

PROPOSED SEEDING AND TOPSOIL 4"
PROPOSED CONCRETE CURB AND GUTTER
PROPOSED COMPACTED AGGREGATE 6"
NOT USED

ROADWAY PGL
ROADWAY PGL

2.0%
2.0%

STA. 5604+00.00 TO STA. 5701+00.00

STA. 5697+40.71 TO STA. 5700+50.00

DATE: 7/19/2017
PLOT DATE: 10:20:17 PM

SCALE: 1" = 20' (RDTYP-15 OF RDTYP-14)

NOT FOR CONSTRUCTION
EXISTING SHEFFIELD AVE
STA. 5804+00 TO STA. 5807+70

EXISTING LEGEND
- EXISTING RETICULUM SURFACE
- EXISTING BITUMEN BASE
- EXISTING AGGREGATE SUBBASE
- NOT USED
- EXISTING SIDEWALK
- EXISTING AGGREGATE BASE

PROPOSED SHEFFIELD AVE
STA. 8505+50 TO STA. 8507+60

PROPOSED LEGEND
- PROPOSED HMA Pavement
- HMA Surface 1-1/2"
- HMA Intermediate 2-1/2"
- HMA Base 4"
- PROPOSED COMPACTED AGGREGATE 6"
- PROPOSED CONCRETE CURB AND GUTTER
- PROPOSED CONCRETE SIDEWALK 4"
- PROPOSED AGGREGATE BASE 4"
- PROPOSED SEEDING AND TOPSOIL 4"

NOTE:
1. PROPOSED PAVEMENT CROSS SLOPES WILL TRANSITION TO MEET THE
EXISTING PAVEMENT CROSS SLOPES AND THE TRACK CROSSING GRADE.
DESTROY SHEFFIELD AVE

EXISTING SHELTER BUILDING
PROPOSED AT-GRADE CROSSING
NICTD SOUTH SHORE

C/L SHEFFIELD AVE STA. 5806+90.81 = PROPOSED AT-GRADE CROSSING
NICTD SOUTH SHORE

CURB AND GUTTER
RECONSTRUCT EXISTING
SIDEWALK
RECONSTRUCT EXISTING

C/L SHEFFIELD AVE STA. 5805+92.02

C/L HANOVER STREET STA. 6002+97.97

PAVEMENT
RECONSTRUCT EXISTING
EXISTING C/L SHEFFIELD AVE

ADDITIONAL INFORMATION
SEE STATION PLANS FOR STATION PARKING
HAMMOND GATEWAY

ADDITIONAL INFORMATION
SEE STATION PLANS FOR ADDITIONAL PARKING
HAMMOND GATEWAY STATION

BEGIN ROADWAY RECONSTRUCTION STA. 5805+50.00

STA. 5807+60.00 END ROADWAY RECONSTRUCTION

LEGEND

RAILROAD CROSSING
RELOCATE EXISTING 42'

PROPOSED TWO QUADRANT CROSSING GATES

EX GND
PROP PGL

EX GROUND PROFILE

CL SHEFFIELD AVE STA. 5805+92.02 ELEV. 587.90

CL HANOVER STREET STA. 6602+97.97 ELEV. 587.90

STA. 5805+50.00 ELEV. 587.94
BEGIN ROADWAY CONSTRUCTION

STA. 5807+60.00 ELEV. 587.73
END ROADWAY CONSTRUCTION

PROPOSED ROADWAY PGL

EX GND

PROP PGL

P V I S ta = 5805+65.00 Elev = 587.82

P V I S ta = 5805+92.02 Elev = 587.90

P V I S ta = 5806+25.00 Elev = 588.00

P V I S ta = 5807+11.00 Elev = 588.00

0.30% 0.00% -0.55%

DS = 35 MPH L = 30.00' K = 27

L = 30.00' DS = 35 MPH K = 99

L = 30.00' DS = 35 MPH K = 54