Appendix E. Engineering Drawings
(Part 2 of 10)
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NORTHERN INDIANA COMMUTER TRANSPORTATION DISTRICT

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

DRAINAGE PLANS
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GENERAL NOTES

1. THE EXISTENCE, LOCATION, AND ELEVATION OF UTILITIES AND/OR STRUCTURES CHARTS AT THE PROJECT SITE ARE NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION, AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT, OR PERSON (S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.

2. DETENTION PIPES DISPLAYED PARALLEL TO DITCH FLOW LINES UNLESS SHOWN OTHERWISE IN THE TYPICAL CROSS SECTIONS. DETENTION PIPES ARE SHOWN AS OFFSET FOR CLARITY.
NOTES:
1. DRAWING NOT TO SCALE.
2. DRAINAGE TYPES AND SIZES SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
4. SECTION IS REFLECTIVE OF DRAINAGE BASIN A1.

NOTES:
1. DRAWING NOT TO SCALE.
2. DRAINAGE TYPES AND SIZES SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
NOTES:
1. DRAWING NOT TO SCALE.
2. DRAINAGE TYPES AND SIZING ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARI ABLE. SEE SYSTEMS SHEETS FOR DETAILS.
5. SECTION 1 IS REFLECTION OF DRAINAGE BASINS C1-C4.

NOT FOR CONSTRUCTION

TYPICAL SECTIONS

STA. 3268+25 TO STA. 3277+75

Scale: N.T.S.

1' DITCH DEPTH (MIN.)
VARIES (40.00' MIN)

ROUGH ROCK LINING

12.00' (TYP)

CATEGORICAL POLE

9.00' MIN.

3.00' (TYP)

STA. 3277+75 TO STA. 3290+25

A STA. 3290+25 TO STA. 3306+85

Scale: N.T.S.

1' DITCH DEPTH (MIN.)
VARIES (40.00' MIN)

ROUGH ROCK LINING

12.00' (TYP)

CATEGORICAL POLE

9.00' MIN.

3.00' (TYP)
NOTES:
1. DRAWING NOT TO SCALE.
2. DRAINAGE TYPES AND SIZES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
5. SECTION IS REFLECTIVE OF DRAINAGE BASINS G1, H1-H2.

NOTES:
1. DRAWING NOT TO SCALE.
2. DRAINAGE SIZES AND TYPES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
5. SECTION IS REFLECTIVE OF DRAINAGE BASINS I1-N2.

SECTION IS REFLECTIVE OF DRAINAGE BASINS G1, H1-H2.
SHEETS FOR DETAILS.
SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS TO THE TRACK AND PLATFORM.
SEE TRACK TYPICALS FOR DETAILS PERTAINING DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAWING NOT TO SCALE.
NOTES:
1. DRAWING NOT TO SCALE.
2. DRAINAGE PIPE SIZES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DIAMETER AND LOCATION.
3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORMS.
4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
5. SECTION IS REFLECTIVE OF DRAINAGE BASINS K2, L1, O1-O3. SHEETS FOR DETAILS.

NOTES:
1. DRAWING NOT TO SCALE.
2. DRAINAGE PIPE SIZES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DIAMETER AND LOCATION.
3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORMS.
4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
5. SECTION IS REFLECTIVE OF DRAINAGE BASINS P1, Q1, R1-R2, S1-S3, T1-T2. SHEETS FOR DETAILS.

NOTES:
1. DRAWING NOT TO SCALE.
2. DRAINAGE PIPE SIZES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DIAMETER AND LOCATION.
3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORMS.
4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
5. SECTION IS REFLECTIVE OF DRAINAGE BASINS R1, R2, S1-S3, T1-T2.

NOTES:
1. DRAWING NOT TO SCALE.
2. DRAINAGE PIPE SIZES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DIAMETER AND LOCATION.
3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORMS.
4. SIDE OF TRACK CATENARY POLES ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
5. SECTION IS REFLECTIVE OF DRAINAGE BASINS Q1, R1, R2, S1-S3, T1-T2.
NOT FOR CONSTRUCTION

NOTES:
1. DRAWING NOT TO SCALE.
2. DRAINAGE TYPES AND SIZES ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR ACTUAL LOCATION, SIDGE SIZE, AND LOCATIONS.
3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
4. SECTION IS REFLECTIVE OF DRAINAGE BASINS BB1-BB4 TO THE TRACK AND PLATFORM.
NOTES:
1. DRAWING NOT TO SCALE.
2. DRAINAGE PIPE AND DITCHES ARE SHOWN FOR DISPLAY ONLY; SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
3. PIPE SIZES AND LOCATIONS ARE SHOWN FOR DISPLAY ONLY; SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
4. DRAINAGE DITCHES AND DRAINS ARE LOCATED VARIES. SEE SYSTEMS SHEETS FOR DETAILS.
5. SECTION IS REFLECTIVE OF DRAINAGE BASINS SS1-SS2.

TYPICAL SECTION
STA. 3576+40 TO STA. 3585+25
Scale: N.T.S.

TYPICAL SECTION
STA. 3586+25 TO STA. 3594+06 & STA. 3595+10 TO STA. 3597+95
& STA. 3603+94 TO STA. 3610+10 & STA. 3612+70 TO STA. 3617+26
Scale: N.T.S.

* OUTLET DIRECTION IS SAME AS OFFSET DIRECTION

DRAINAGE PIPES AND DITCHES ARE SHOWN FOR DISPLAY ONLY. SEE DRAWING NOT TO SCALE.

NOT FOR CONSTRUCTION
DRENTY-3 OF DRENTY-14

TYPICAL SECTIONS
DRAINAGE

Dyer to Hammond, Indiana

NORTHERN INDIANA COMMUTER TRANSPORTATION DISTRICT
33 East Highway 12
Chesterfield, Indiana 46934

WEST LAKE CORRIDOR

NICO

HDR Engineering, Inc.
Chicago, IL 60631
8550 W Bryn Mawr Ave., Suite 900

DATE: 7/19/2017
PLOT DATE: 10:38:07 PM
FILENAME: WL_DR_XS_Sht-09.dgn
SHEET: 12 OF 64
NOTES:

1. DRAWING NOT TO SCALE.
2. DRAINAGE TYPES AND DIMENSIONS ARE SHOWN FOR DISPLAY ONLY. SEE DRAINAGE PLANS FOR PIPE LOCATIONS, DITCH SIZE, AND LOCATION.
3. SEE TRACK TYPICALS FOR DETAILS PERTAINING TO THE TRACK AND PLATFORM.
4. SIDE OF TRACK CATTLEY POLES ARE LOCATED VARIOUS. SEE SYSTEMS SHEETS FOR DETAILS.
5. SECTION IS REFLECTION OF DRAINAGE BASINS WW1, XX2-XX3.

TYPICAL SECTION
STA. 3564+06 TO STA. 3565+10
& STA. 3517+26 TO STA. 3532+40
Scale: N.T.S.

3.00' (TYP)

1' DITCH DEPTH (MIN.)
VARIES

ROUGH ROCK LINING
VARIES 16.00' MIN.

TYPICAL SECTION
STA. 3567+95 TO STA. 3603+94
& STA. 3510+40 TO STA. 3512+70
Scale: N.T.S.
10-YEAR NORMAL DEPTH = 0.11', 100-YEAR NORMAL DEPTH = 0.17'

TRAP DITCH, MIN. BOTTOM WIDTH = 3', 2:1 SIDE SLOPES,
BOTH SIDES, TYP.

GALV. STL. HANDRAIL AND STAIRS, TYP.

EX GND EL TYP.

TOP = 616.4,
ASSUMED INV OUT (E) = 612.3

NOT FOR CONSTRUCTION
10-YEAR NORMAL DEPTH = 0.27', 100-YEAR NORMAL DEPTH = 0.39'

TRAP DITCH, MIN. BOTTOM WIDTH = 3', 2:1 SIDE SLOPES,

10-YEAR NORMAL DEPTH = 0.26', 100-YEAR NORMAL DEPTH = 0.39'

TRAP DITCH, MIN. BOTTOM WIDTH = 3', 2:1 SIDE SLOPES,