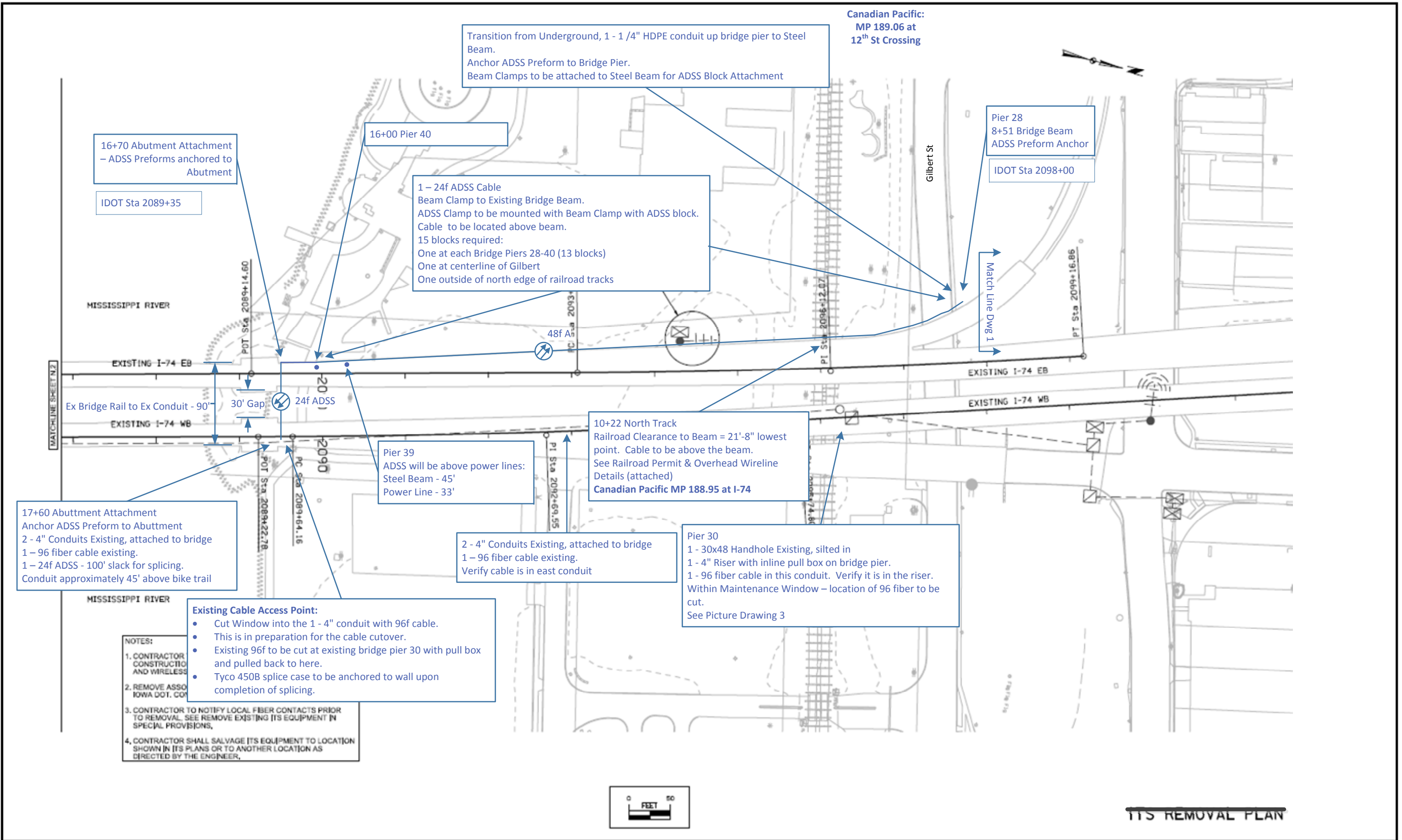


- Comments:**
 Blue Text is for Iowa DOT Temporary 24f ADSS Fiber Cable re-route.
- Army Corp of Engineers restrictions apply to levy and bike trail area; weight limit is restricted. Contractor will need to use an aerial lift (Genie or other) on the bike path and within restricted zone. See attached exhibit.
 - Bike Path Closure is required; see referenced bike path re-route.
 - Bike Path Documentation – contractor shall take pictures or video to document the bike path pavement prior to and after completion of the work; pictures to be submitted. Any damage to pavement shall be restored by the contractor.
 - Contractor is required to coordinate with Iowa DOT and Project Management on scheduling the cable placement within the work zone of IDOT Project 205.
 - Site Contact: Jeff Koenig, HR Green 319.841.4312/319.538.2268 or Thomas McQuillan HNTB 312.771.8537.
 - Contractor shall attach the 24 fiber ADSS cable, to the existing bridge steel beam with beam clamps in order to mount ADSS blocks. Cable shall be above the beam.
 - ADSS Cable Weight/KFeet = 65 lbs/1000'. Corning Solo 024EN4-T4M01A20 or equivalent.
 - Beam Clamps shall be Unistruct Model P2898 or P2899 or equivalent, hot dip galvanized (HDG) – dependent on beam thickness (contractor to verify).
 - Concrete Anchors shall be either Hilti KWIK Bolt 3 Expansion Anchor, HDG or Hilti Drop in Anchor – Minimum 5/8".

- NOTES:**
1. HANDHOLES FOR COMM ARE FOR FUTURE FIBER INSTALLATION - NO POWER CABLE TO BE ROUTED THROUGH THESE HANDHOLES.
 2. CONDUITS FOR COMM ARE FOR FUTURE FIBER INSTALLATION - NO POWER CABLE TO BE ROUTED THROUGH THESE CONDUITS.
 3. CONDUIT RUNS WITH POWER CIRCUITS SHALL CONTAIN ONE GROUND CABLE PER POWER CONDUIT.
 4. CONTRACTOR SHALL RELOCATE AND ORIENTATE THE BRIDGE ACCESS CONTROL SYSTEM GATE AND SIGN AT THE APPROXIMATE STATION AND OFFSET DESCRIBED IN THE PLANS TO PROVIDE APPROPRIATE COVER OF THE MODIFIED RAMP GEOMETRY. MODIFICATIONS TO THE LOCATION OF THE GATE OR SIGN SHALL BE APPROVED BY THE ENGINEER.
 5. ITS DEVICE LOCATIONS SHOWN FOR REFERENCE INFORMATION ONLY. PROJECT M-074-1(2254)-13-82 DOES NOT INCLUDE FURNISHING OR INSTALLING ANY ITS DEVICES.
 6. CONTRACTOR SHALL PROVIDE ACCESS FOR OTHERS TO INSTALL ITS DEVICES.

PROPOSED ITS INFRASTRUCTURE	EXISTING ITS INFRASTRUCTURE
CONDUIT	CONDUIT
FIBER TERMINATION CABINET	FIBER TERMINATION CABINET
CABINET	HANDHOLE
ARTIFICIAL DHS STRUCTURE	AUTOMATED GATE
METER PEDESTAL	LED RAMP SIGN
AUTOMATED GATE	WIRELESS COMM ANTENNA
LED RAMP SIGN	WIRELESS COMM TRANSMITTER/RECEIVER
WIRELESS COMM ANTENNA	
TYPE 2C HANDHOLE	
TYPE 3 HANDHOLE	



Transition from Underground, 1 - 1/4" HDPE conduit up bridge pier to Steel Beam.
Anchor ADSS Preform to Bridge Pier.
Beam Clamps to be attached to Steel Beam for ADSS Block Attachment

Canadian Pacific:
MP 189.06 at
12th St Crossing

16+70 Abutment Attachment
- ADSS Preforms anchored to Abutment

IDOT Sta 2089+35

16+00 Pier 40

1 - 24f ADSS Cable
Beam Clamp to Existing Bridge Beam.
ADSS Clamp to be mounted with Beam Clamp with ADSS block.
Cable to be located above beam.
15 blocks required:
One at each Bridge Piers 28-40 (13 blocks)
One at centerline of Gilbert
One outside of north edge of railroad tracks

Pier 28
8+51 Bridge Beam
ADSS Preform Anchor

IDOT Sta 2098+00

MISSISSIPPI RIVER

EXISTING I-74 EB

Ex Bridge Rail to Ex Conduit - 90"

EXISTING I-74 WB

24f ADSS

48f A

EXISTING I-74 EB

EXISTING I-74 WB

10+22 North Track
Railroad Clearance to Beam = 21'-8" lowest point. Cable to be above the beam.
See Railroad Permit & Overhead Wireline Details (attached)
Canadian Pacific MP 188.95 at I-74

Pier 39
ADSS will be above power lines:
Steel Beam - 45'
Power Line - 33'

17+60 Abutment Attachment
Anchor ADSS Preform to Abutment
2 - 4" Conduits Existing, attached to bridge
1 - 96 fiber cable existing.
1 - 24f ADSS - 100' slack for splicing.
Conduit approximately 45' above bike trail

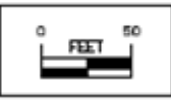
2 - 4" Conduits Existing, attached to bridge
1 - 96 fiber cable existing.
Verify cable is in east conduit

Pier 30
1 - 30x48 Handhole Existing, silted in
1 - 4" Riser with inline pull box on bridge pier.
1 - 96 fiber cable in this conduit. Verify it is in the riser.
Within Maintenance Window - location of 96 fiber to be cut.
See Picture Drawing 3

Existing Cable Access Point:

- Cut Window into the 1 - 4" conduit with 96f cable.
- This is in preparation for the cable cutover.
- Existing 96f to be cut at existing bridge pier 30 with pull box and pulled back to here.
- Tyco 450B splice case to be anchored to wall upon completion of splicing.

- NOTES:
1. CONTRACTOR CONSTRUCTION AND WIRELESS
 2. REMOVE ASSO IOWA DOT, CO
 3. CONTRACTOR TO NOTIFY LOCAL FIBER CONTACTS PRIOR TO REMOVAL. SEE REMOVE EXISTING [ITS EQUIPMENT IN SPECIAL PROVISIONS,
 4. CONTRACTOR SHALL SALVAGE [ITS EQUIPMENT TO LOCATION SHOWN IN ITS PLANS OR TO ANOTHER LOCATION AS DIRECTED BY THE ENGINEER,



TTS REMOVAL PLAN

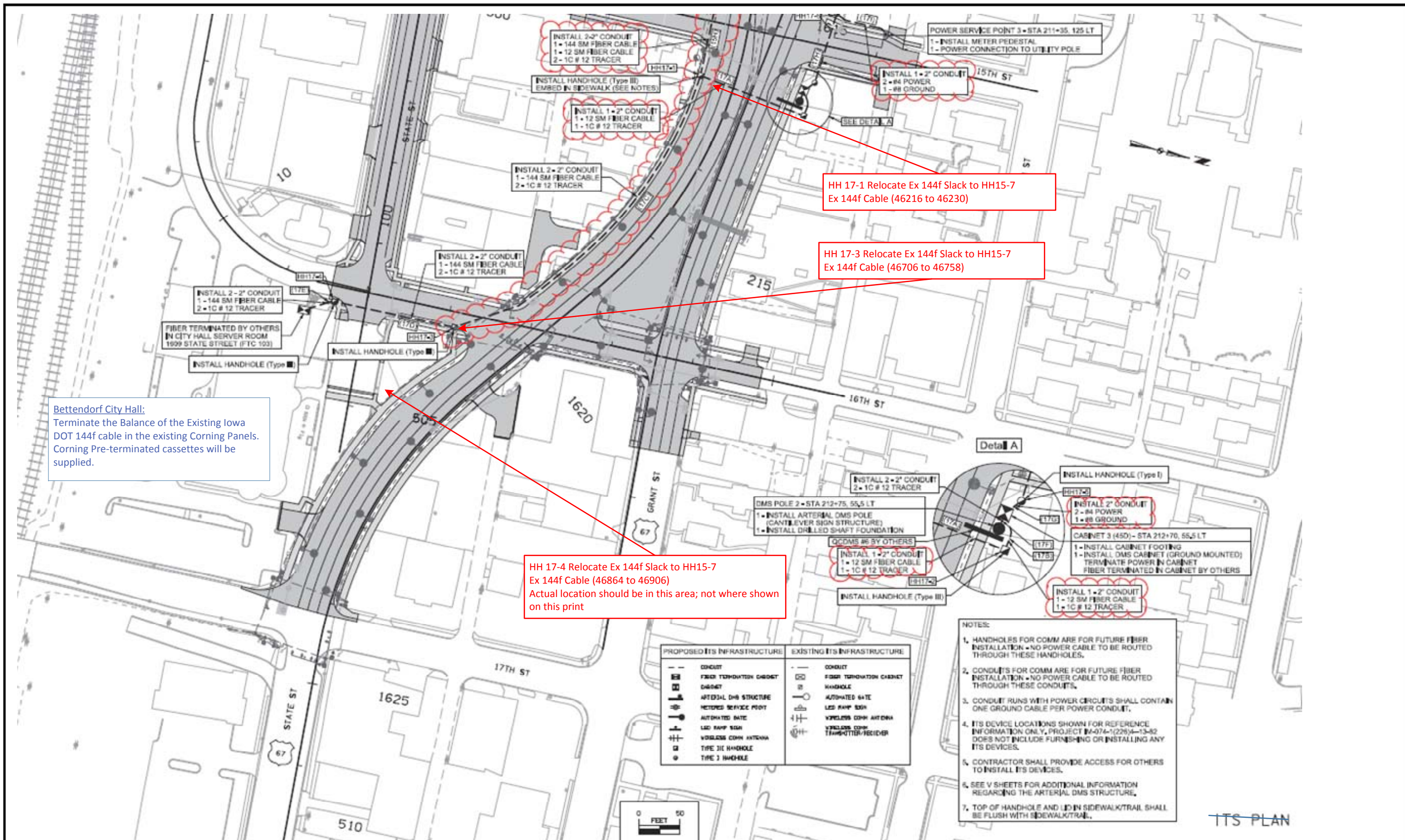
ICN IOWA COMMUNICATIONS NETWORK
 ORMES STATE OFFICE BUILDING
 400 EAST 14TH STREET
 DES MOINES, IOWA 50319
 ICN © 2014, COPY WITH PERMISSION

THIS DRAWING IS PROVIDED FOR GENERAL INFORMATION ONLY AND IS NOT TO BE USED TO DETERMINE PRECISE ICM PLACEMENT. CALL ONE CALL BEFORE EXCAVATION (1-800-222-8888 OR 511)

Project Name: Iowa DOT, Bettenforf I-74 Temporary Relocation - Grant St to Mississippi Bridge Pier
 Scale: NONE

OSP Log: 82180401
 Drawing: 2 of 5
 Size: 11 x 17

Engineering Plan	4/2018
Engineering Plan Revision	7/2018
C:\Users\dougpurges\Desktop\TTS Block\TB.dwg	



Bettendorf City Hall:
 Terminate the Balance of the Existing Iowa DOT 144f cable in the existing Corning Panels. Corning Pre-terminated cassettes will be supplied.

HH 17-1 Relocate Ex 144f Slack to HH15-7
 Ex 144f Cable (46216 to 46230)

HH 17-3 Relocate Ex 144f Slack to HH15-7
 Ex 144f Cable (46706 to 46758)

HH 17-4 Relocate Ex 144f Slack to HH15-7
 Ex 144f Cable (46864 to 46906)
 Actual location should be in this area; not where shown on this print

PROPOSED ITS INFRASTRUCTURE	EXISTING ITS INFRASTRUCTURE
CONDUIT	CONDUIT
FIBER TERMINATION CABINET	FIBER TERMINATION CABINET
CONDUIT	HANDHOLE
ARTERIAL DMS STRUCTURE	AUTOMATED GATE
METERED SERVICE POINT	LED RAMP SIGN
AUTOMATED GATE	WIRELESS COMM ANTENNA
LED RAMP SIGN	WIRELESS COMM TRANSMITTER/RECEIVER
WIRELESS COMM ANTENNA	
TYPE III HANDHOLE	
TYPE I HANDHOLE	

- NOTES:
- HANDHOLES FOR COMM ARE FOR FUTURE FIBER INSTALLATION - NO POWER CABLE TO BE ROUTED THROUGH THESE HANDHOLES.
 - CONDUITS FOR COMM ARE FOR FUTURE FIBER INSTALLATION - NO POWER CABLE TO BE ROUTED THROUGH THESE CONDUITS.
 - CONDUIT RUNS WITH POWER CIRCUITS SHALL CONTAIN ONE GROUND CABLE PER POWER CONDUIT.
 - ITS DEVICE LOCATIONS SHOWN FOR REFERENCE INFORMATION ONLY. PROJECT #A-074-1(226)-13-82 DOES NOT INCLUDE FURNISHING OR INSTALLING ANY ITS DEVICES.
 - CONTRACTOR SHALL PROVIDE ACCESS FOR OTHERS TO INSTALL ITS DEVICES.
 - SEE V SHEETS FOR ADDITIONAL INFORMATION REGARDING THE ARTERIAL DMS STRUCTURE.
 - TOP OF HANDHOLE AND LED IN SIDEWALK/TRAIL SHALL BE FLUSH WITH SIDEWALK/TRAIL.

ITS PLAN

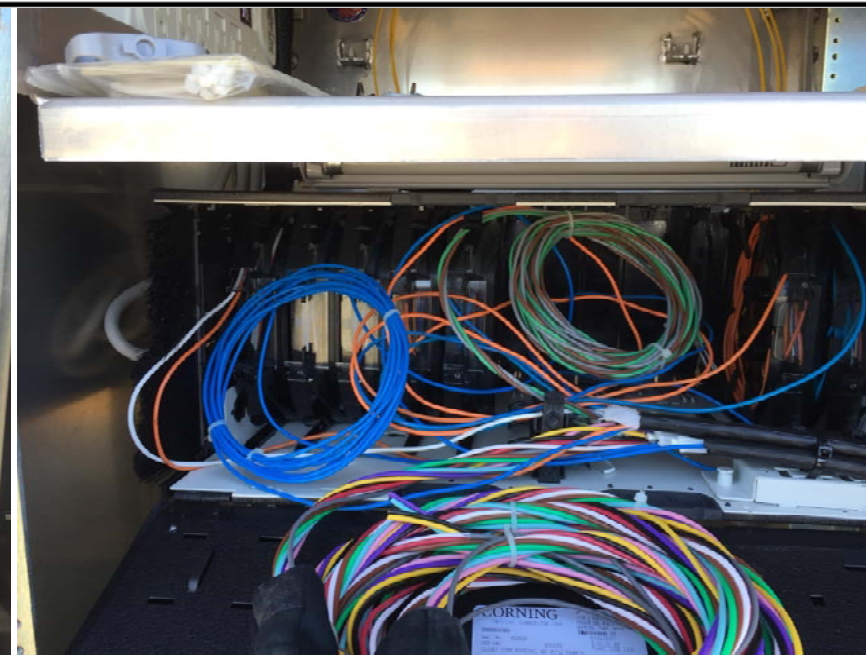


0+00 FTC102 / 0+03 HH15-7



• Back of existing panel. Access no longer required.

0+00 FTC102 Back of Cabinet



0+00 FTC102 144f Coil



0+00 FTC102 Front



• Ex 144f slack to be pulled back to this handhole.
 • New 24f ADSS – leave 75' of slack.
 • New Mid-Sheath on Ex. 144f to be installed.

0+03 HH 15-7



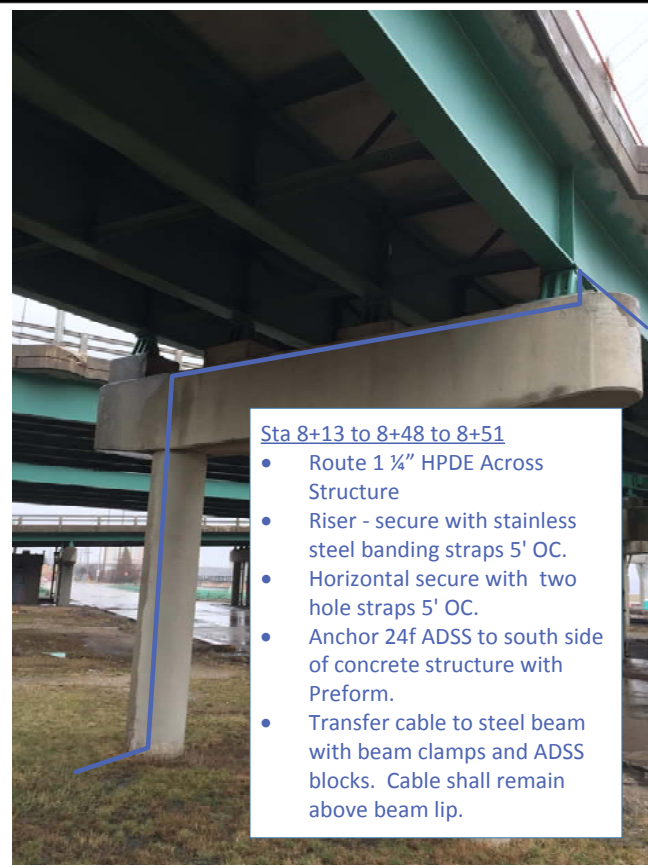
1+13 HH 15-6



2+53 HH 15-5



3+03 HH 15-4



- Sta 8+13 to 8+48 to 8+51**
- Route 1 ¼" HPDE Across Structure
 - Riser - secure with stainless steel banding straps 5' OC.
 - Horizontal secure with two hole straps 5' OC.
 - Anchor 24f ADSS to south side of concrete structure with Preform.
 - Transfer cable to steel beam with beam clamps and ADSS blocks. Cable shall remain above beam lip.

8+13 to 8+48 to 8+51 Pier 28 Transition



1-24f ADSS mounted with beam clamps / cable to stay above bottom of the beam

21'-8" Bottom of Beam to Top of Rail Cable to be located above the Beam

Place Beam Clamp/ADSS Block above each concrete pier and 5' outside of north edge of tracks.

Canadian Pacific MP188.95 at I-74 Crossing

10+22 North Rail – looking East



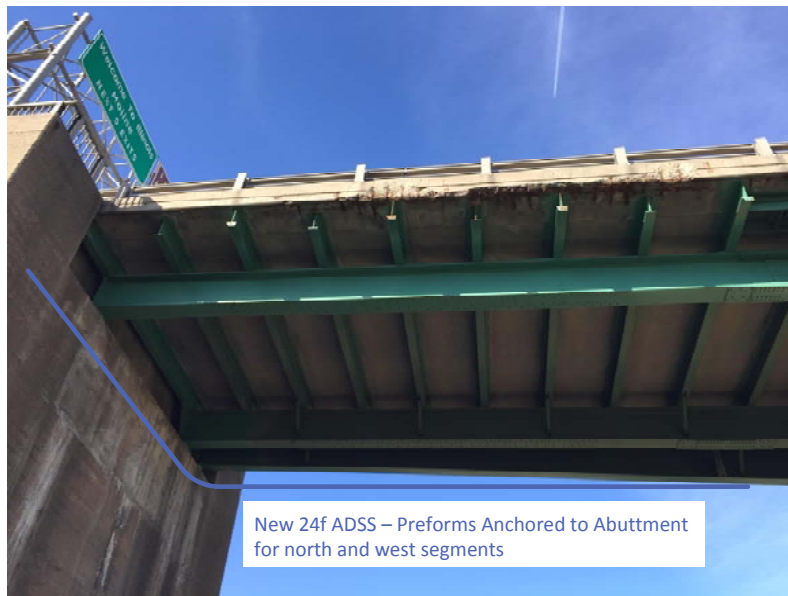
Transition between Beams – midway.



45' to Steel Beam

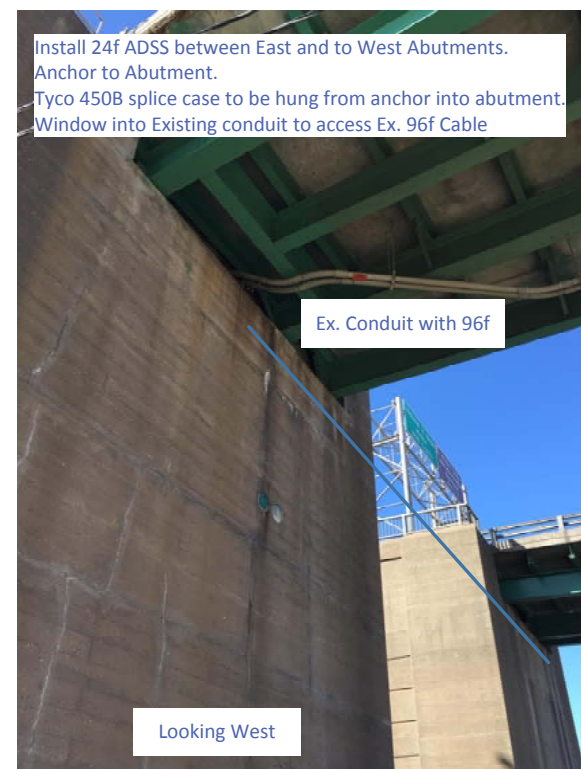
33' to Power

Pier 39 – ADSS above Power Lines



New 24f ADSS – Preforms Anchored to Abutment for north and west segments

16+70 West Abutment – New Aerial Attachment



Install 24f ADSS between East and to West Abutments. Anchor to Abutment. Tyco 450B splice case to be hung from anchor into abutment. Window into Existing conduit to access Ex. 96f Cable

Ex. Conduit with 96f

Looking West

17+60 East Abutment - Ex. Conduit



Install 24f ADSS between East and West Abutments. Anchor to Abutment. Tyco 450B splice case to be hung from anchor into abutment. Window into Existing conduit to access Ex. 96f Cable

17+60 East Abutment Looking West

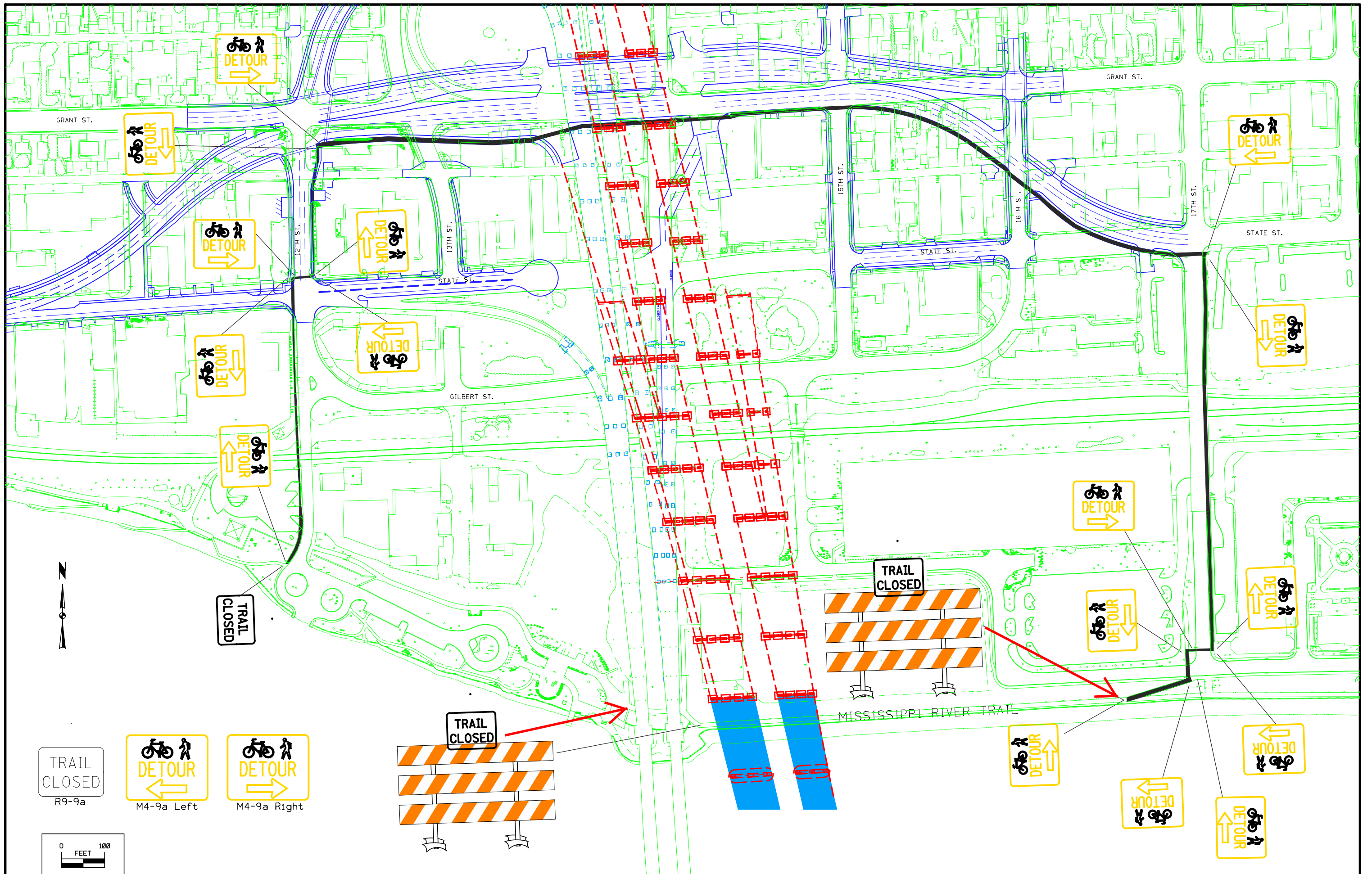


- Ex. Pull Box and Handhole.
- Verify 96f in pull box.
- This will be the location to cut the 96f and pull back to the south.

Pier 30 Gilbert St. – I-74 Ex. Riser with Pull Box



Pier 30 Gilbert St – Ex. I-74 Riser & Handhole



TRAIL
CLOSED
R9-9a

DETOUR
M4-9a Left

DETOUR
M4-9a Right

TRAIL
CLOSED

TRAIL
CLOSED

