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FOR ASSISTANCE OR
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BERNICE WHEELER, (813)274-8456, FAX 274-8080
CONTRACT ADMINISTRATION DEPARTMENT
306 E. JACKSON ST. #280A4N
TAMPA, FL 33602

B063-017

CITY of TAMPA

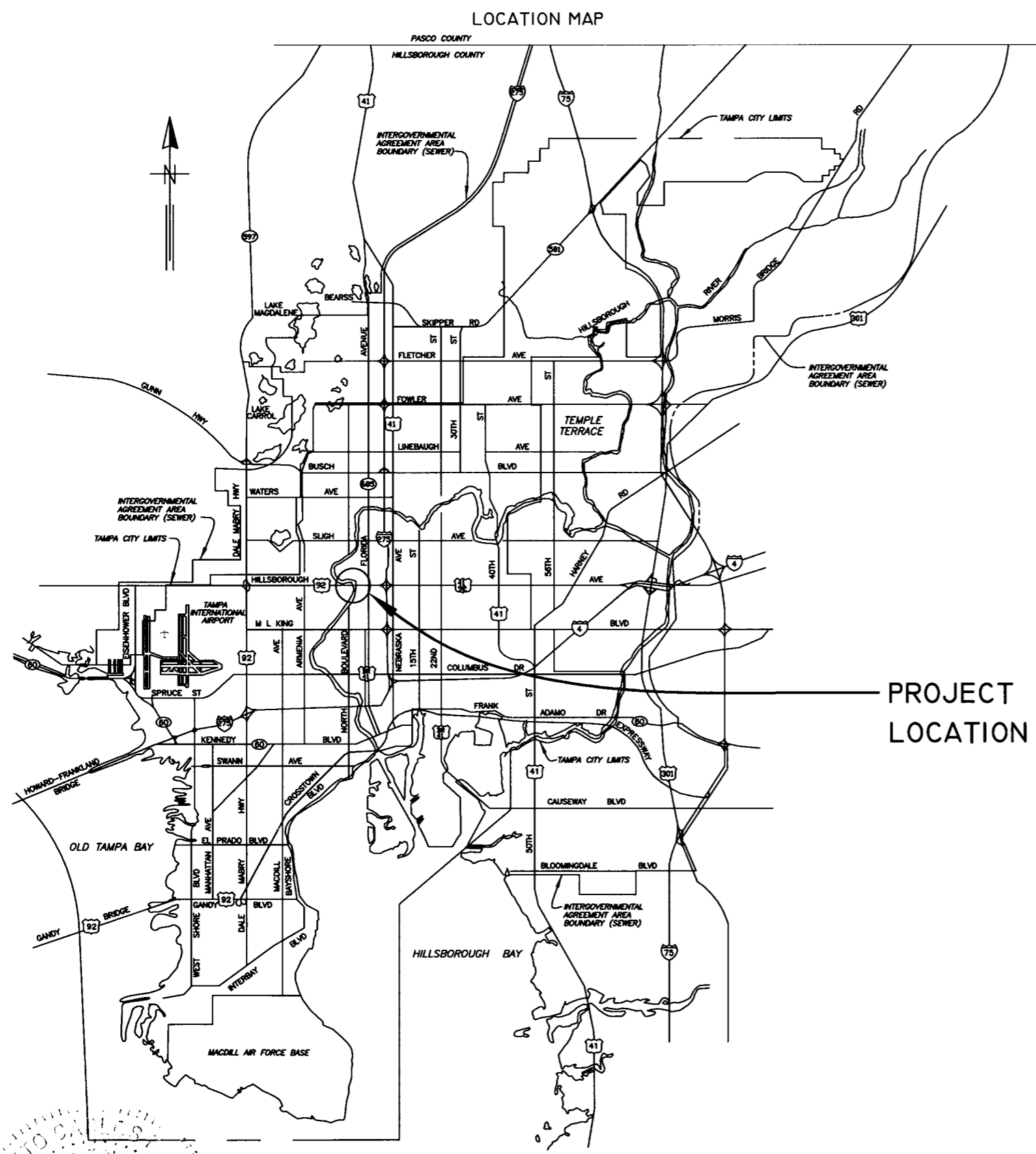


WASTEWATER DEPARTMENT

PLANS FOR

NORTH BOULEVARD SIPHON REHABILITATION

CONTRACT No. 8-C-00037



PROJECT
LOCATION

User: SS13 Drawing Name: K:\Drafting\North Boulevard Siphon Area\North Blvd Siphon Bypass Line.dwg Layout - Cover, Sep 23, 2008 - 1:35pm

Jacinto Carlos Ferras
 JACINTO CARLOS FERRAS, P.E. #19454
 DESIGN DIVISION HEAD
 WASTEWATER DEPARTMENT

| No. | DATE | REVISIONS |
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DES: SK
 DRN: JHJ
 CKD: JF
 DATE: 9/25/08

CITY of TAMPA
 WASTEWATER DEPARTMENT

COVER SHEET

4014
 SHEET
 1

GENERAL NOTES:

1. THE SCOPE OF THIS PROJECT IS TO CLEAN AND LINE BY CURED-IN-PLACE PIPE APPROX. 205 LF OF 24" CIP GRAVITY SEWER, APPROX. 740 LF OF 20" CIP SIPHON, AND TO APPLY A COATING SYSTEM TO THE SIPHON INLET STRUCTURE AND NEW TOP SLAB.

2. THE 24" CIP GRAVITY LINE FROM MH-4 TO THE INLET STRUCTURE IS TO BE CLEANED AND LINED WITH CURED-IN-PLACE-PIPE (C.I.P.P.). THE PROPOSED C.I.P.P. LINER THICKNESS SHALL BE 10.5 mm.

3. THE 20" CIP INVERTED SIPHON FROM THE INLET CHAMBER TO EXISTING JUNCTION CHAMBER 'A' IS TO BE CLEANED BY PIGGING AND LINED WITH C.I.P.P. THE PROPOSED C.I.P.P. LINER THICKNESS SHALL BE 10.5 mm.

4. THE INLET STRUCTURE IS TO BE CLEANED AND COATED AS SHOWN ON SHEET 7 AND IN ACCORDANCE WITH SPECIFICATIONS. THE MINIMUM COATING THICKNESS SHALL BE 125 MILS.

5. WASTEWATER FLOW THROUGH THE GRAVITY LINE IS APPROXIMATELY 2,500 GPM AT PEAK FLOW.

6. THE BYPASS ROUTE SHALL BEGIN AT MH-5, LOCATED IN NORTH BLVD. SOUTH OF THE INTERSECTION WITH ROSS AVENUE, SHALL RUN IN THE EAST SIDEWALK OVER THE NORTH BLVD. BRIDGE, AND DROP OVER THE BRIDGE AT APPROXIMATELY SPAN 4, INTO JUNCTION CHAMBER B WHERE THERE IS A 60" INTERCEPTOR.

7. ALL BYPASS PUMPS SHALL BE BAFFLED TO COMPLY WITH ALL NOISE ABATEMENT STANDARDS. CONSTRUCTION OF ACOUSTICAL ENCLOSURES AND/OR UTILIZATION OF ELECTRIC PUMP MOTORS MAY BE NECESSARY TO MEET THESE REQUIREMENTS.

8. BEFORE REMOVING BYPASS PIPING, THE CONTRACTOR SHALL FLUSH THE LINE WITH POTABLE WATER. THE BYPASS LINE SHALL BE REMOVED AS SOON AS POSSIBLE AFTER COMPLETION OF THE REHABILITATION.

9. OSHA STANDARD EQUIPMENT SUCH AS SAFETY HARNESSSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT DETECTORS, BREATHING APPARATUS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY ROAD CLOSURE AND RIGHT-OF-WAY PERMITS FROM THE CITY OF TAMPA. A PERMIT APPLICATION ALONG WITH A DETAILED MAINTENANCE OF TRAFFIC (MOT) PLAN SHALL BE SUBMITTED TO DAVID HOUSEMAN (247-5656) FOR EACH AFFECTED ROADWAY. THE MOT(S) SHALL CONFORM TO APPLICABLE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) INDEX DRAWINGS (MOST CURRENT EDITION).

11. THE CONTRACTOR HAS THE FOLLOWING OPTIONS FOR INSPECTING THE SIPHON AFTER THE INSTALLATION OF THE C.I.P.P. LINER.

- a) TV INSPECT SIPHON (UNDERWATER)
- b) PASS A PROOF PIG NO LARGER THAN LINER I.D.
- c) INSPECT SIPHON BY SONAR

CONTRACTOR SHALL PROVIDE DETAILS OF THE SELECTED OPTION TO THE ENGINEER FOR REVIEW AND APPROVAL

12. THE CONTRACTOR SHALL SECURE THE BYPASS LINE TO THE WEST SIDE BRIDGE RAIL. THE SIDEWALK ACCESS IS TO REMAIN OPEN TO PEDESTRIAN TRAFFIC.

13. ACCESS DOOR TO BE HALLIDAY PRODUCTS S2S SERIES DOUBLE DIAMOND 60"x36" ACCESS DOOR WITH STAINLESS STEEL HARDWARE OR APPROVED EQUAL. ACCESS DOOR SHALL BE RATED FOR 300 PSF LIVE LOAD.

14. AT NO TIME SHALL THE 20" CIP SIPHON BE DEWATERED.

15. THE C.I.P.P. LINER FOR THE SIPHON SHALL NOT BE MANUFACTURED UNTIL PIGGING HAS BEEN SUCCESSFULLY COMPLETED.

16. CONCRETE SHALL BE CLASS "B" WITH A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI AND REINFORCING STEEL SHALL BE GRADE 60.

17. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT CLEANING DEBRIS FROM FLOWING DOWNSTREAM. CONTRACTOR SHALL SUBMIT PROPOSED METHOD OF CAPTURING DEBRIS TO THE ENGINEER FOR REVIEW AND APPROVAL.

18. MAINTENANCE OF TRAFFIC SHALL BE INCLUDED IN THE LUMP SUM COST OF BYPASS PUMPING.

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JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

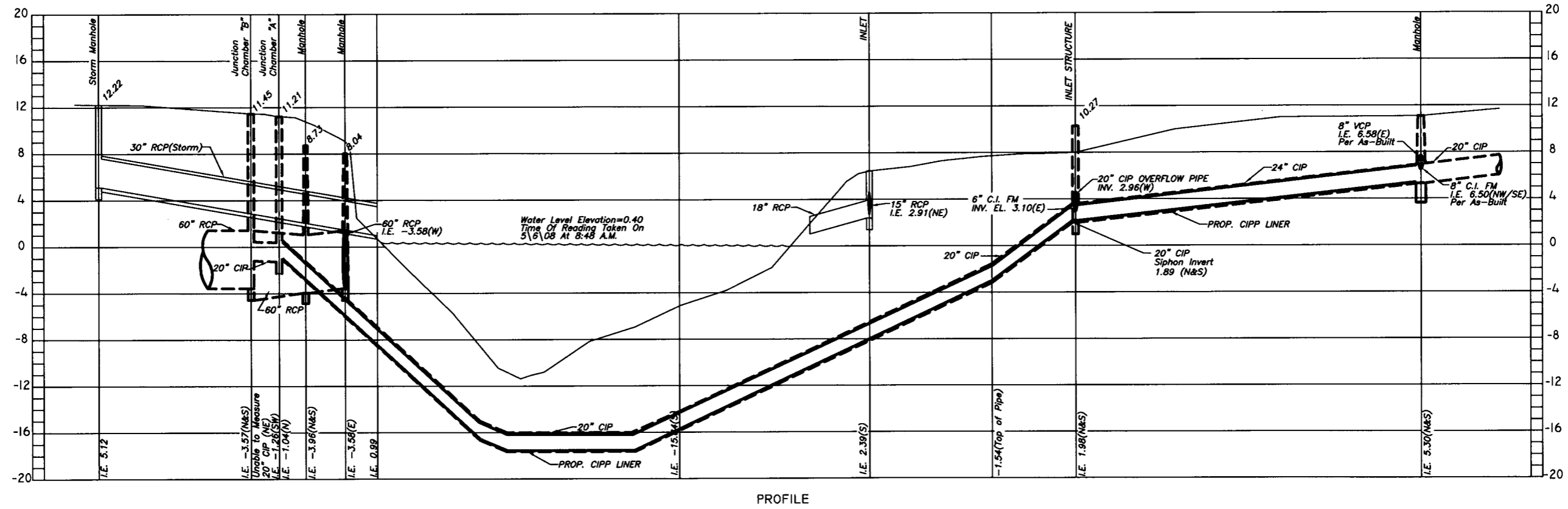
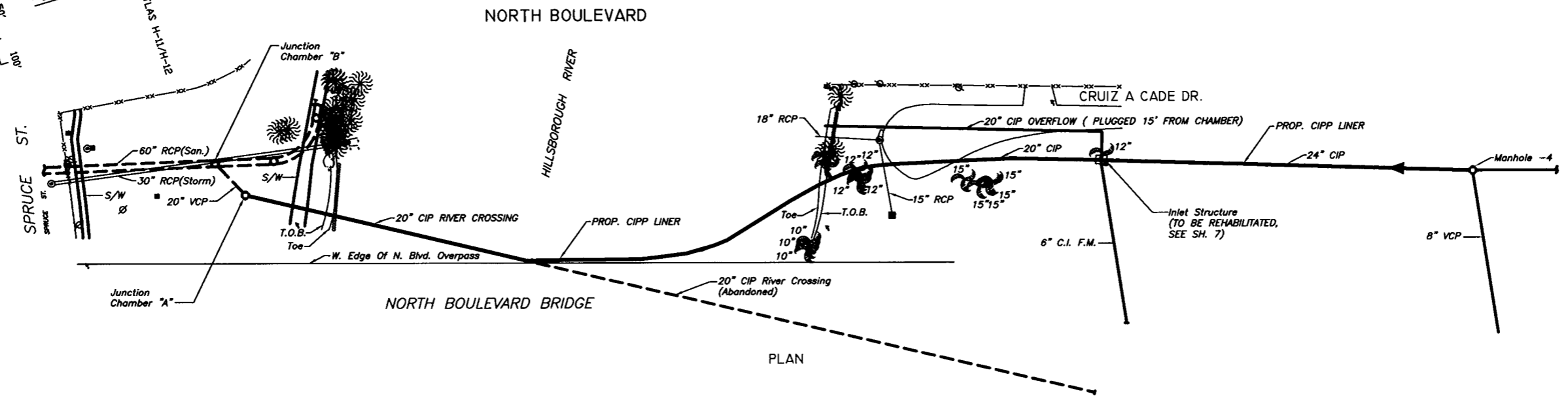
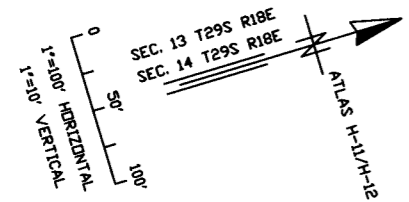
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CKD: JF
DATE: 9/25/08

CITY of TAMPA
WASTEWATER DEPARTMENT

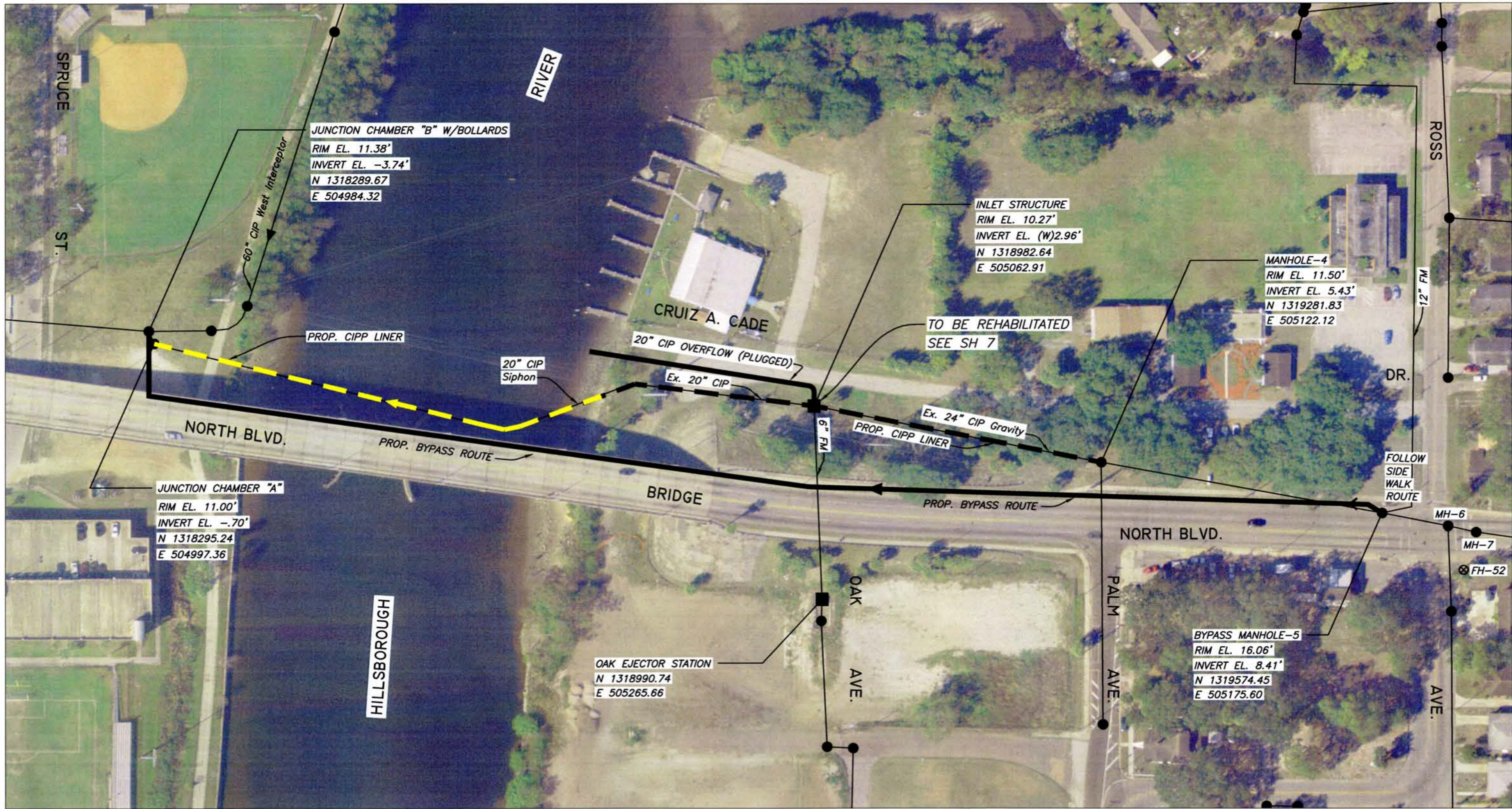
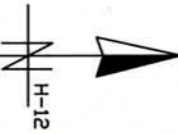
NORTH BLVD. SIPHON REHABILITATION
CONTRACT 8-C-00037
GENERAL NOTES

W.D. 4014
SHEET
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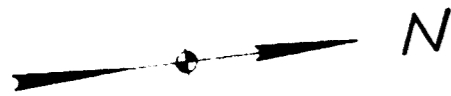
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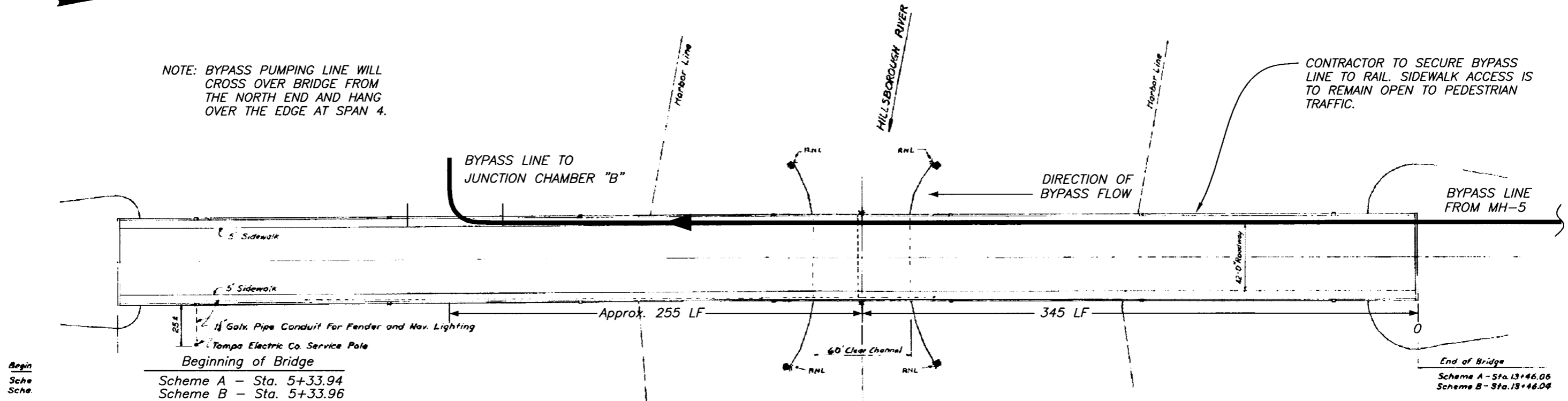
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HIGHWAY BRIDGE OVER HILLSBOROUGH RIVER
AT NORTH BOULEVARD
TAMPA FLORIDA

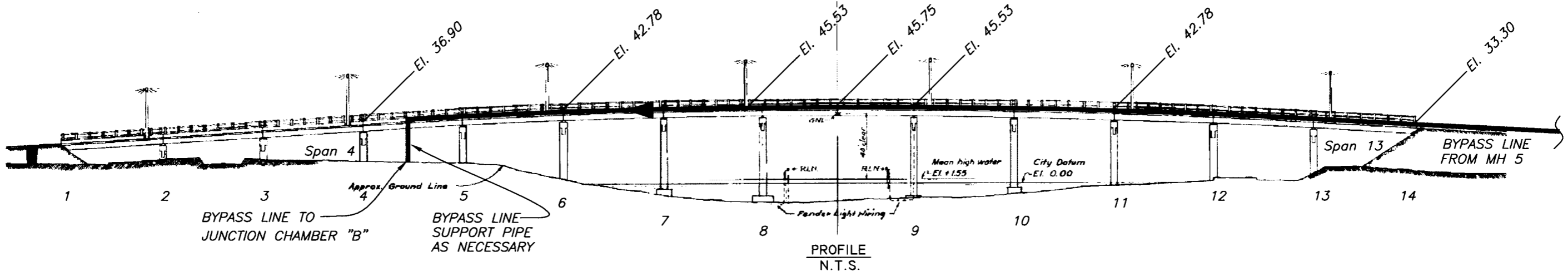


NOTE: BYPASS PUMPING LINE WILL CROSS OVER BRIDGE FROM THE NORTH END AND HANG OVER THE EDGE AT SPAN 4.

CONTRACTOR TO SECURE BYPASS LINE TO RAIL. SIDEWALK ACCESS IS TO REMAIN OPEN TO PEDESTRIAN TRAFFIC.

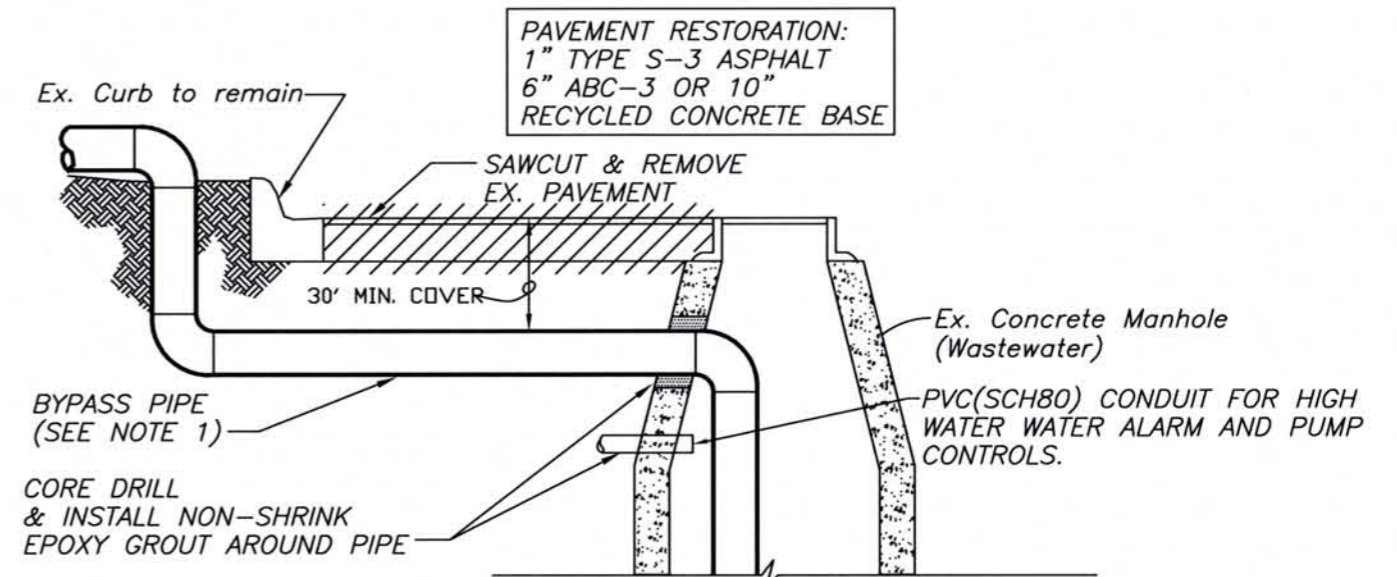
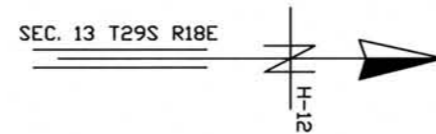
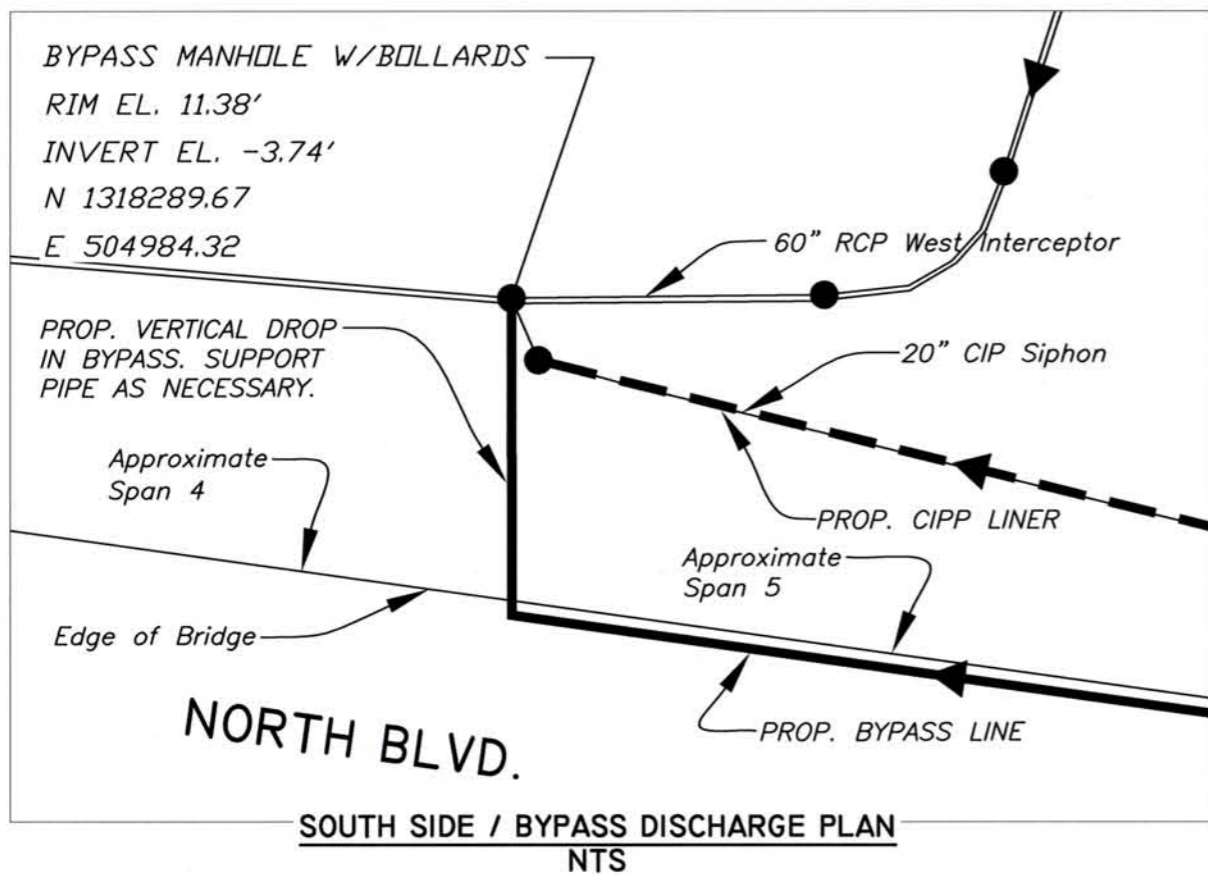


PROFILE
N.T.S.
Length of Structure [Scheme A = 812'-11"
Scheme B = 812'-1"



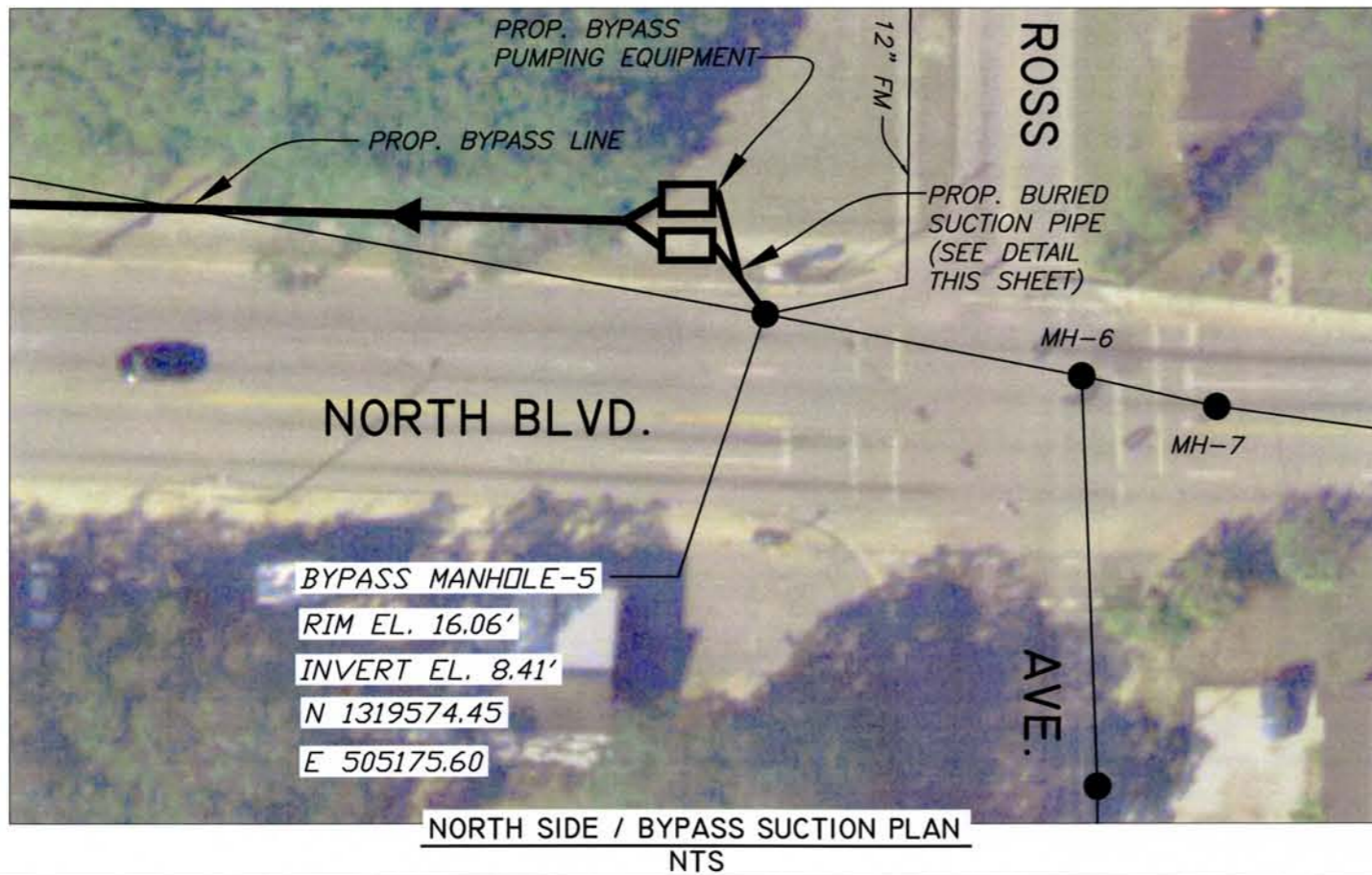
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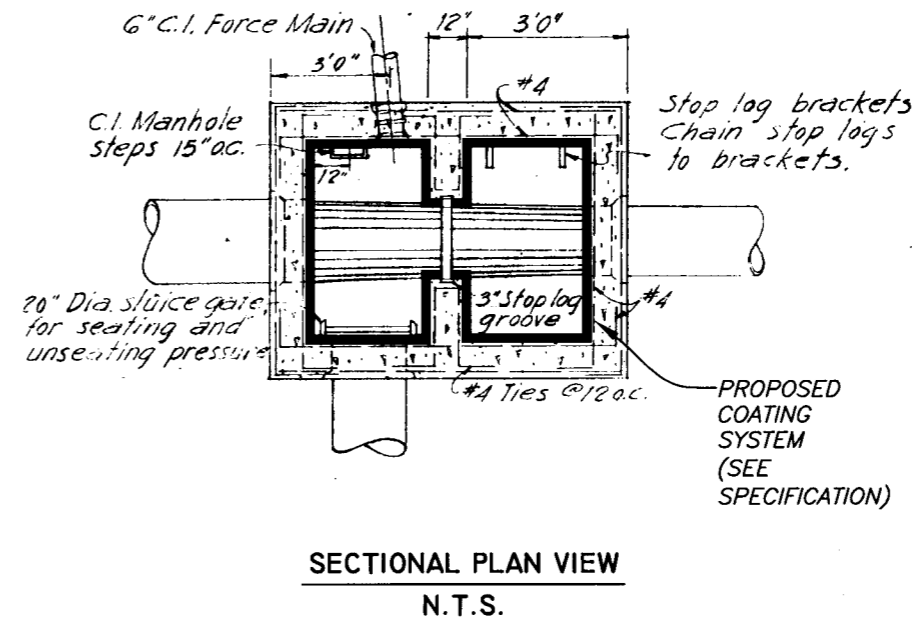
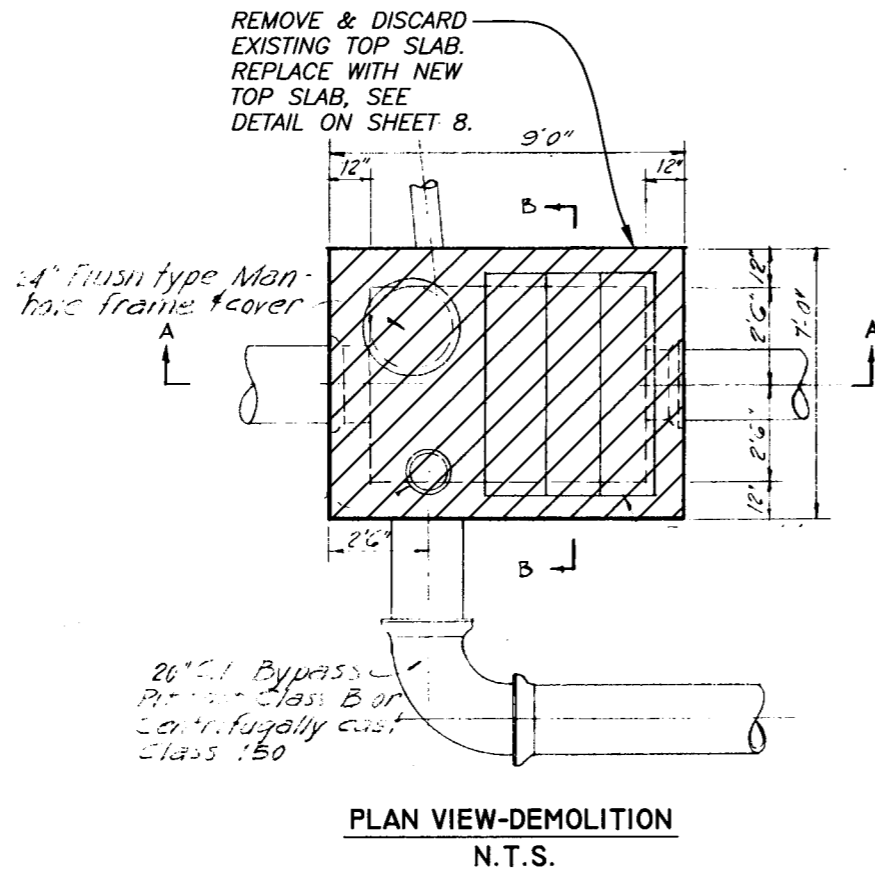
NOTES:

1. BYPASS PIPE AND FITTINGS UNDER THE ROADWAY AND INSIDE THE MANHOLE SHALL BE HDPE C-906, DR-11. ALL JOINTS SHALL BE BUTT-FUSED. ALTERNATE PIPE MATERIALS CAPABLE OF WITHSTANDING A H-20 LIVE LOAD MAY BE SUBMITTED FOR CONSIDERATION.
2. BYPASS PIPE SHALL BE EXTENDED TO THE MANHOLE BOTTOM AND SECURED TO THE MANHOLE. CONTRACTOR SHALL SUBMIT SHOP DRAWING ON PROPOSED INSTALLATION METHOD FOR APPROVAL.
3. UPON COMPLETION OF THE BYPASS OPERATION, CONTRACTOR SHALL COMPLETELY REMOVE BYPASS PIPE AND CONDUIT FROM INSIDE MANHOLE, AND CUT PIPE AT FACE OF WALL. PIPE UNDER ROADWAY SHALL REMAIN AND BE PLUGGED AT ENDS.
4. PIPE IN GRASSED AREA SHALL BE PLUGGED AND BURIED A MINIMUM OF 18".
5. CONTRACTOR SHALL CALL SUNSHINE TO LOCATE UTILITIES IN EXCAVATION AREA.

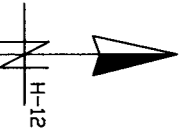


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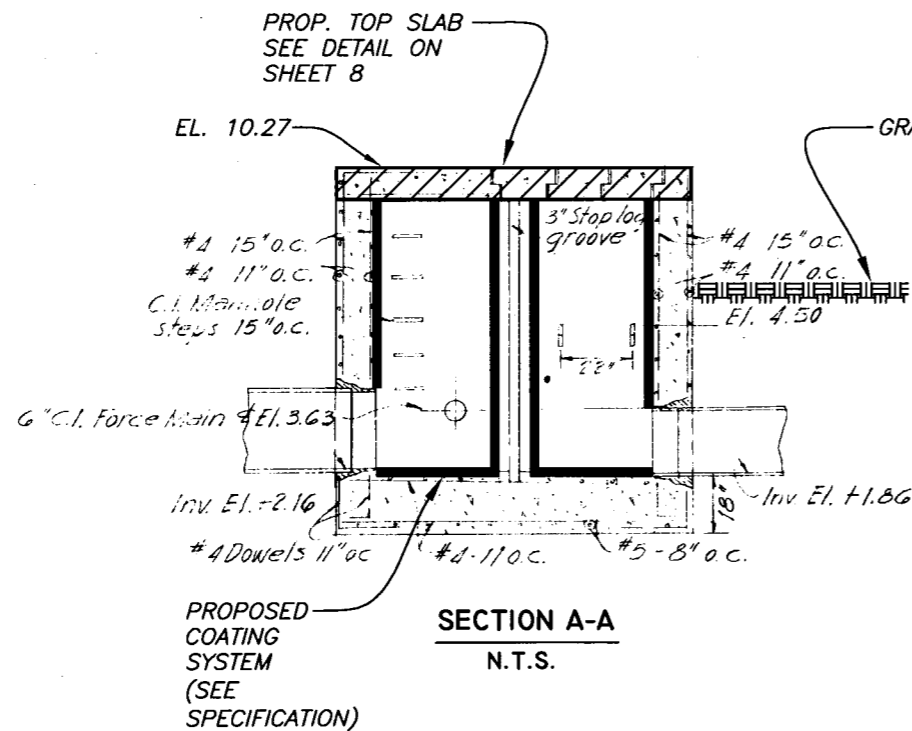
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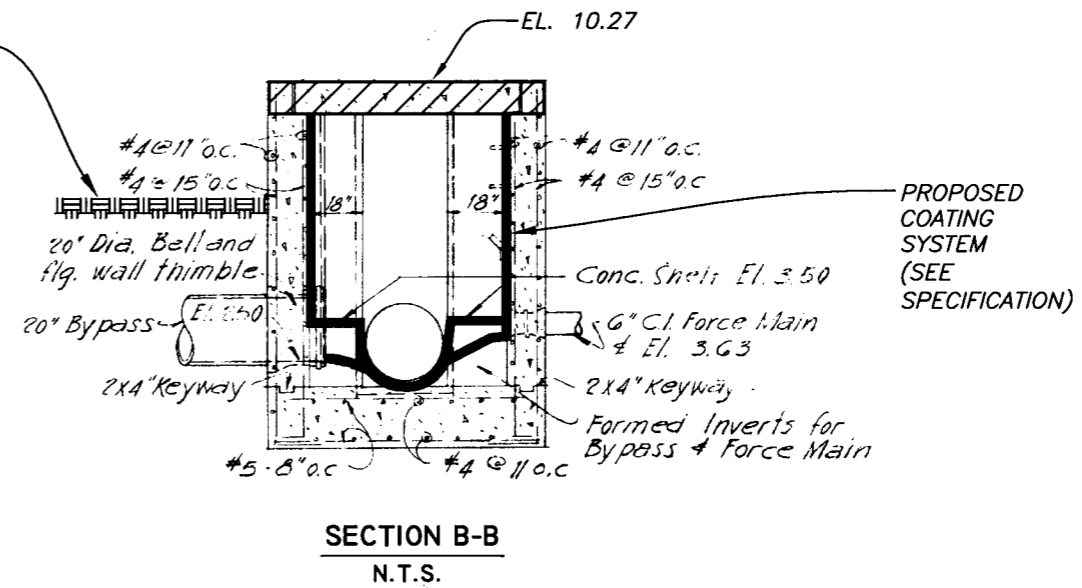
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NOTE: COATING SYSTEM SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES INSIDE INLET CHAMBER INCLUDING WALLS, STOPLOG GROOVES, BENCHES, INVERTS AND UNDERSIDE OF TOP SLAB.

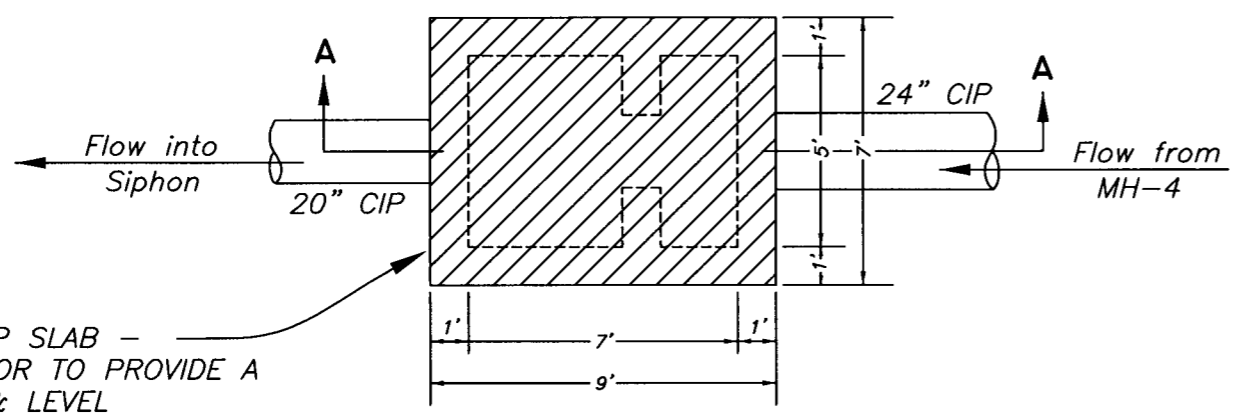
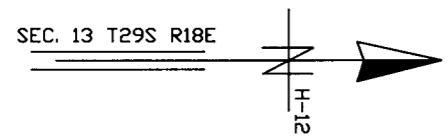


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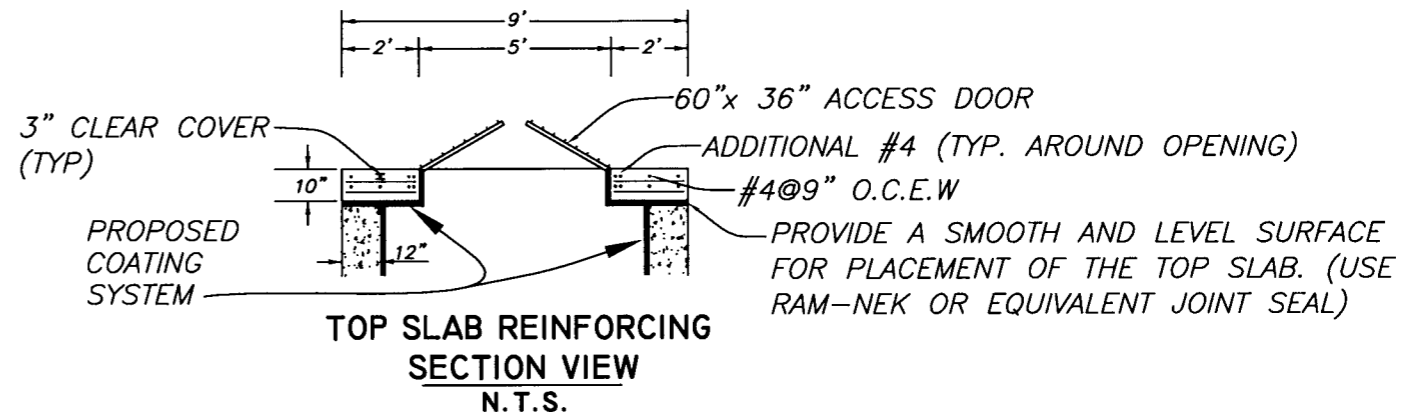
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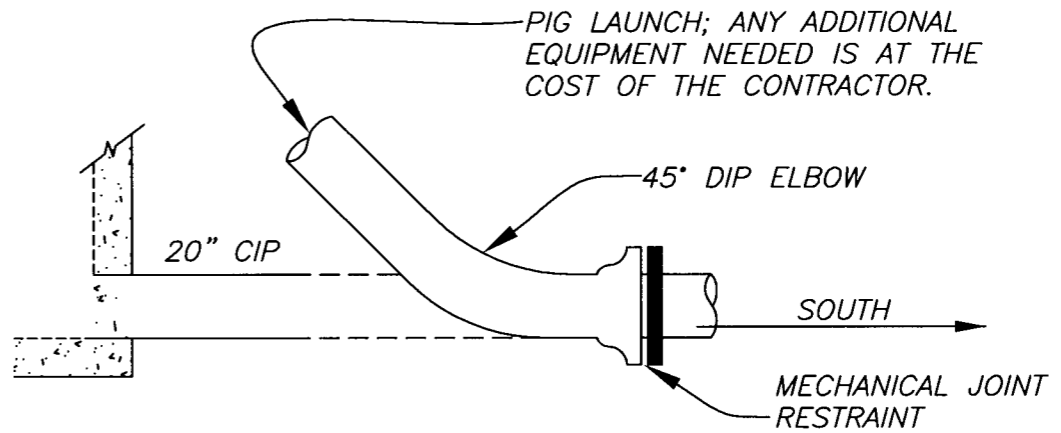


PROP. TOP SLAB - CONTRACTOR TO PROVIDE A SMOOTH & LEVEL SURFACE FOR PLACEMENT OF THE TOP SLAB. (USE RAM-NEK OR EQUIVALENT JOINT SEAL)

TOP SLAB PLAN VIEW
N.T.S.

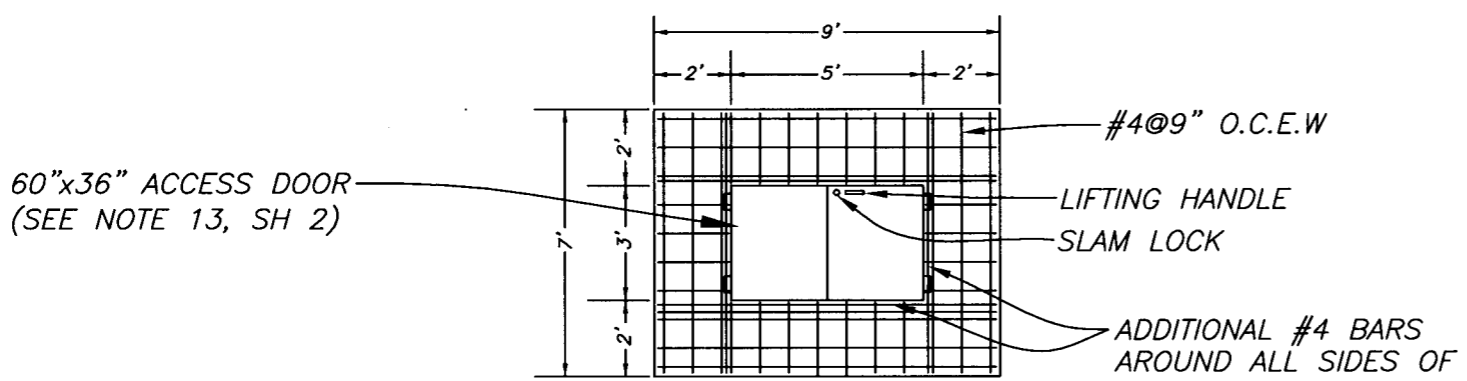


TOP SLAB REINFORCING SECTION VIEW
N.T.S.



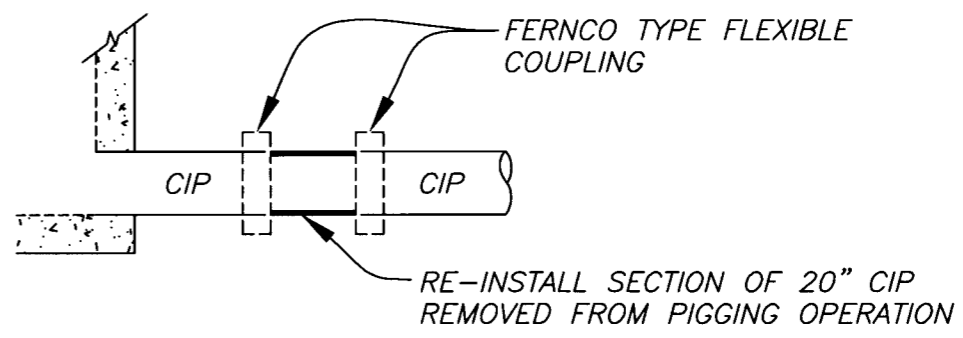
PIG LAUNCH MODIFICATIONS SECTION VIEW
N.T.S.

NOTE: CONTRACTOR IS TO CUT OUT A SECTION OF THE 20" CIP TO INSTALL POLY PIG LAUNCHING EQUIPMENT.



TOP SLAB REINFORCING PLAN VIEW
N.T.S.

NOTE: CONCRETE TOP SLAB SHALL BE PRE-CAST. APPROVED SHOP DRAWING WILL BE REQUIRED PRIOR TO FABRICATION.



SIPHON RESTORATION SECTION VIEW
N.T.S.

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