F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(1,2)T-17	ST. CLAIR	77	21
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUPERSTRUCTURE

OVERHEAD CRANE FRAME SUPPORT, SEE DWG. S7

℄ EXISTING MAIN PUMPING UNIT #1 (SWP-1) AND DEWATERING PUMP

DEWATERING PUMP ROOF SCUTTLE & CURB

℄ MAIN PUMPING UNIT #2 (SWP-2)

4'-6"x5'-0" ROOF SCUTTLE (TYP. FOR SWP-2 & 5)

℄ EXISTING MAIN PUMPING UNIT #3 (SWP-3)

T/CONC. CURB EL. 421.50 (TYP.)

℄ MAIN PUMPING UNIT #4 (SWP-4)

℄ SUMP PUMP SSP-2

℄ EXISTING MAIN PUMPING UNIT #5 (SWP-5)

EL. VARIES 420.5 TO 420.0

℄ MAIN PUMPING UNIT #6 (SWP-6)

EL. 422.0

GRADE VARIES

EL.422.0

OPERATOR'S ROOM

1½"Ø PIPE RAIL AROUND DEWATERING PUMP ACCESS OPENING SEE DET. DWG. S16 (TYP.-3 FLOORS)

PUMP ROOM

PUMP TUBE SUPPORT PUMPS SWP2, SWP4 & SWP6, SEE DET. M8

PUMP SSP-1 TUBE SUPPORT, SEE DET. M8

EL.408.0

EL. VARIES EL. 408.0 TO EL. 407.75

PUMP BRACE AT SWP-2, SWP-4 & SWP-6, SEE DET. DWG. S6 (6-TYP.)

SWP-2 SSP-1 SWP-3 SWP-4 SWP-5 SWP-6

DISCHARGE FLOOR

EL. 393.67

STABILIZER PLATE, SEE DET DWG. S6 (TYP.)

EL. 393.67

PUMP SSP-1 STABILIZER PLATE, SEE DET. DWG. S6 (2-TYP.)

STAINLESS STEEL CLEVIS PLATE, CENTERED OVER PUMP, SEE DET. DWG. S16

PIPE RAILING (TYP.)

INTERMEDIATE FLOOR

EL. 380.0

EL. 380.0

72"Ø INFLUENT SEWER

500gpm DEWATERING PUMP DP2

DEWATERING PUMP LOWER PLATFORM, SEE DET DWG. S3 & S16

1/2T PORTABLE HOIST

UPPER PLATFORM

EL. 370.0

EL. 371.0

T/GRATING EL. 370.0

EL. 372.0

1'-0"

WET WELL

INV. EL. 372.1

W8X21

3"Ø PIPE COLUMN

EL. 364.25

EL. 366.0

EL. 366.0

DEWATERING PUMP

REPLACE EXISTING LADDER BEHIND ON SOUTH WALL FROM EL. 380.0 TO EL. 372.0 SEE DET. DWG. S3

REPLACE EXISTING LADDER BEHIND ON SOUTH WALL FROM EL. 372.0 TO EL. 366.0 SEE DET. DWG. S3

SECTION A-A

YA-TAI LIN
81-3085
REGISTERED STRUCTURAL ENGINEER OF
CHICAGO, ILLINOIS
9/7/05

0' 2' 4' 8'
SCALE: 1"= 4'

S4

ALVORD, BURDICK & HOWSON, L.L.C.
ENGINEERS CHICAGO

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOWMAN AVENUE PUMP STATION REHABILITATION

STRUCTURAL SECTIONS (PUMP STATION AND SUPPORTS)

SCALE: AS SHOWN
DATE: 09-12-05
DRAWN BY: CTM
CHECKED BY: SP

PLOT DATE: *DATE-TIME*

PLAN
NOTE BOOK
NO.
SURVEYED
INSPECTED
ALIGNMENT CHECKED
PT. OF BEG. CHECKED
ROAD FILE NAME
BY
DATE

$$DATE$$
DATE-TIME
NON-SPEC
FILE
REF