CITY OF ANN ARBOR, MICHIGAN PLANT #1 FLOCCULATION DRIVE ROOM FLOOR DRAIN REPLACEMENT

710 AVIS DRIVE, SUITE #100 ANN ARBOR, MI 48108 TEL: (734) 665-6000



www.tetratech.com

PROJECT LOCATION:

200-31537-22006

919 SUNSET ROAD

ANN ARBOR, MI 48103

CLIENT INFORMATION: CITY OF ANN ARBOR, MICHIGAN

ANN ARBOR, MI 48103

Tt PROJECT No.: CLIENT PROJECT No.:

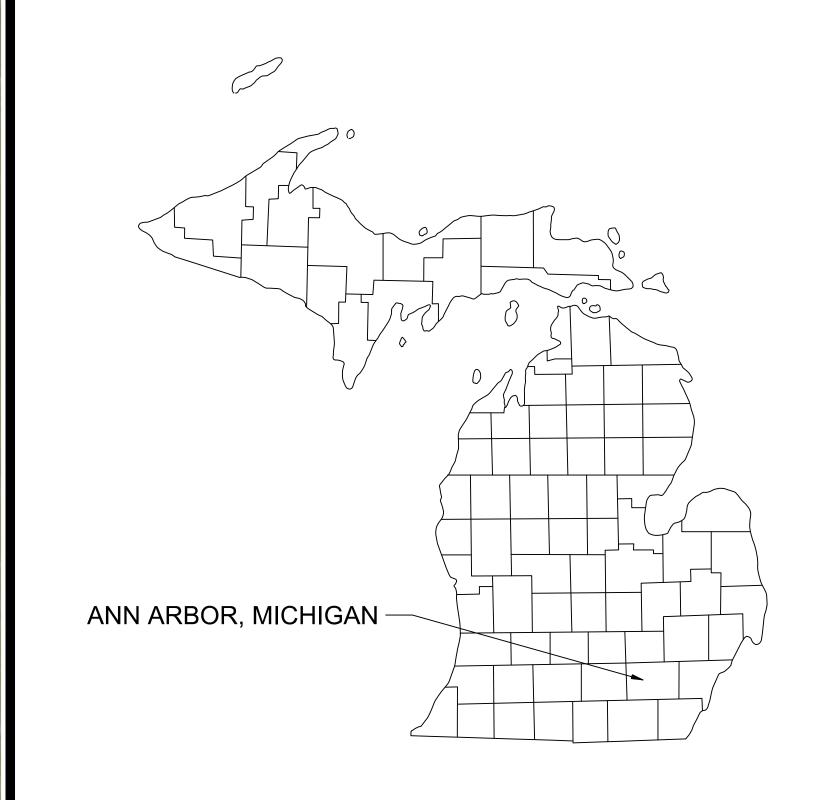
PROJECT DESCRIPTION / NOTES:

REPLACEMENT OF FLOOR DRAINS, DRAIN PIPING SERVING THE PLANT #1 FLOCCULATION DRIVE ROOM, AND DUPLEX SUMPS SERVING THE WEST FILTER GALLERY.

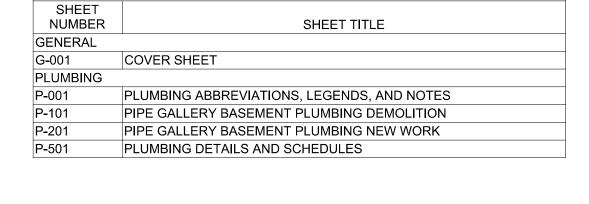
ISSUED:

ISSUED FOR BID - 10/07/22

VICINITY MAP:



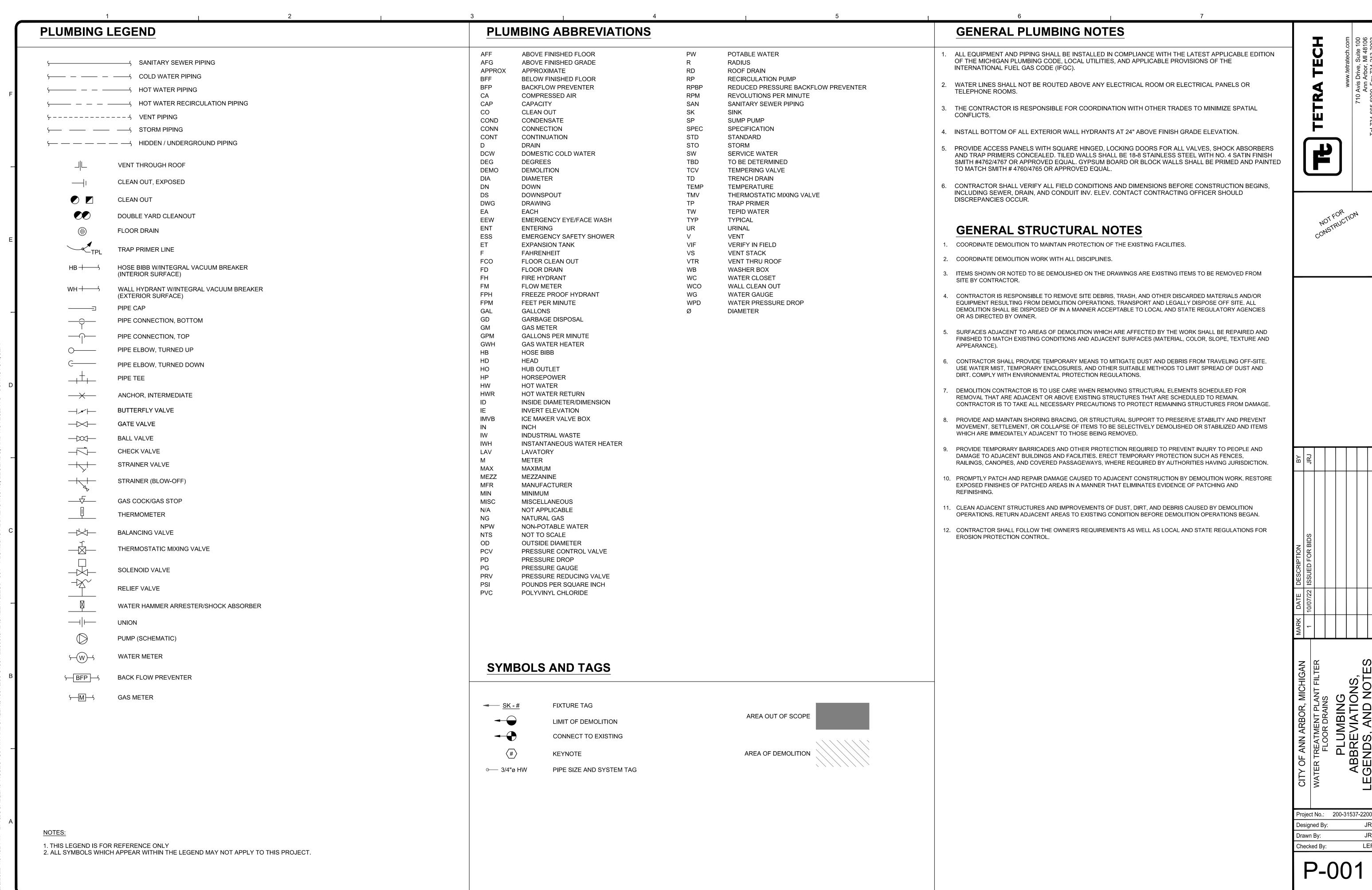


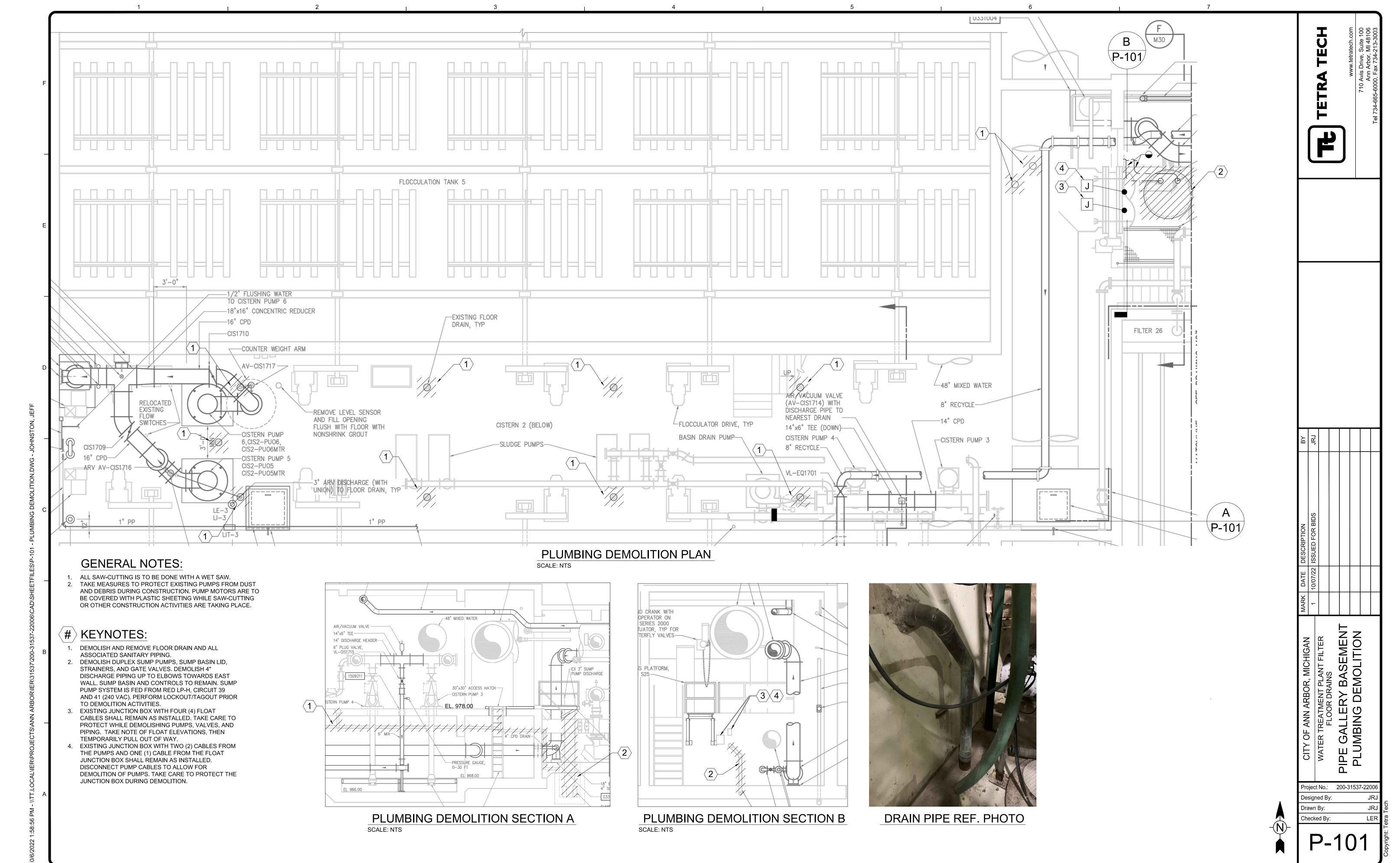


INDEX OF DRAWINGS

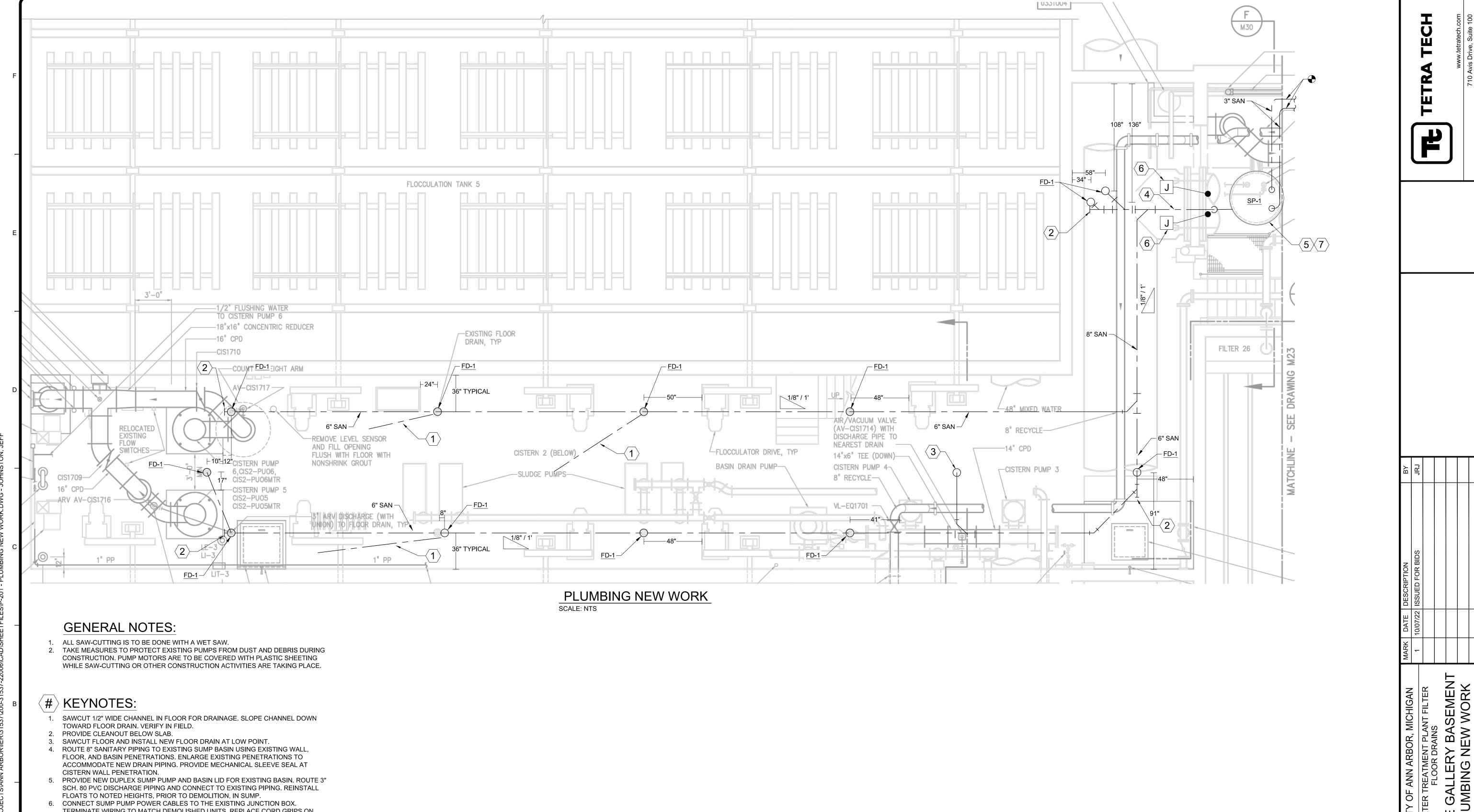








Bar Measures 1 inch



5. PROVIDE NEW DUPLEX SUMP PUMP AND BASIN LID FOR EXISTING BASIN. ROUTE 3" SCH. 80 PVC DISCHARGE PIPING AND CONNECT TO EXISTING PIPING. REINSTALL FLOATS TO NOTED HEIGHTS, PRIOR TO DEMOLITION, IN SUMP.

6. CONNECT SUMP PUMP POWER CABLES TO THE EXISTING JUNCTION BOX. TERMINATE WIRING TO MATCH DEMOLISHED UNITS. REPLACE CORD GRIPS ON JUNCTION BOX TO FIT PROVIDED MANUFACTURER CABLE ON SUMP PUMPS.

7. TURN POWER BACK ON TO SUMP PUMP SYSTEM. ADJUST PUMP PROTECTION SETTINGS ON EXISTING SYSTEM CONTROL PANEL TO MATCH NEW PUMPS. CONTROL PANEL IS A SJE ROHMBUS PUMP CONTROLLER. PERFORM OPERATIONAL TEST OF SYSTEM. VERIFY OPERATION OF SCADA ALARM FOR HIGH LEVEL IN SUMP.

> Designed By: rawn By:

hecked By:

PE PL(

Project No.: 200-31537-22000

Bar Measures 1 inch

SUMP PUMP SCHEDULE																		
	MANUFACTURER	MODEL	SYSTEM SERVED	PUMP			ELECTRICAL				EMERG	BASIN CAPACITY		OPER. WT.				
MARK				TYPE	FLOW (GPM)	HEAD (FT WG)	RPM	QUAN.	HP	VOLTS	PH	FLA	SINGLE POC (Y/N)	SINGLE POWER POC (Y/N) (Y/N)	VOL (GAL)	SIZE (H"xDIA")	(LBS)	NOTES
SP-1	ZOELLER	294	DRAIN WATER	SUBMERSIBLE	60	50	3450	2	1.5	240	1	13.7	Y	N	-	X" x 48"	86	1, 2, 3, 4

NOTES

- COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED.
- PROVIDE NON-OVERLOADING AIR FILLED, HERMETICALLY SEALED MOTOR.

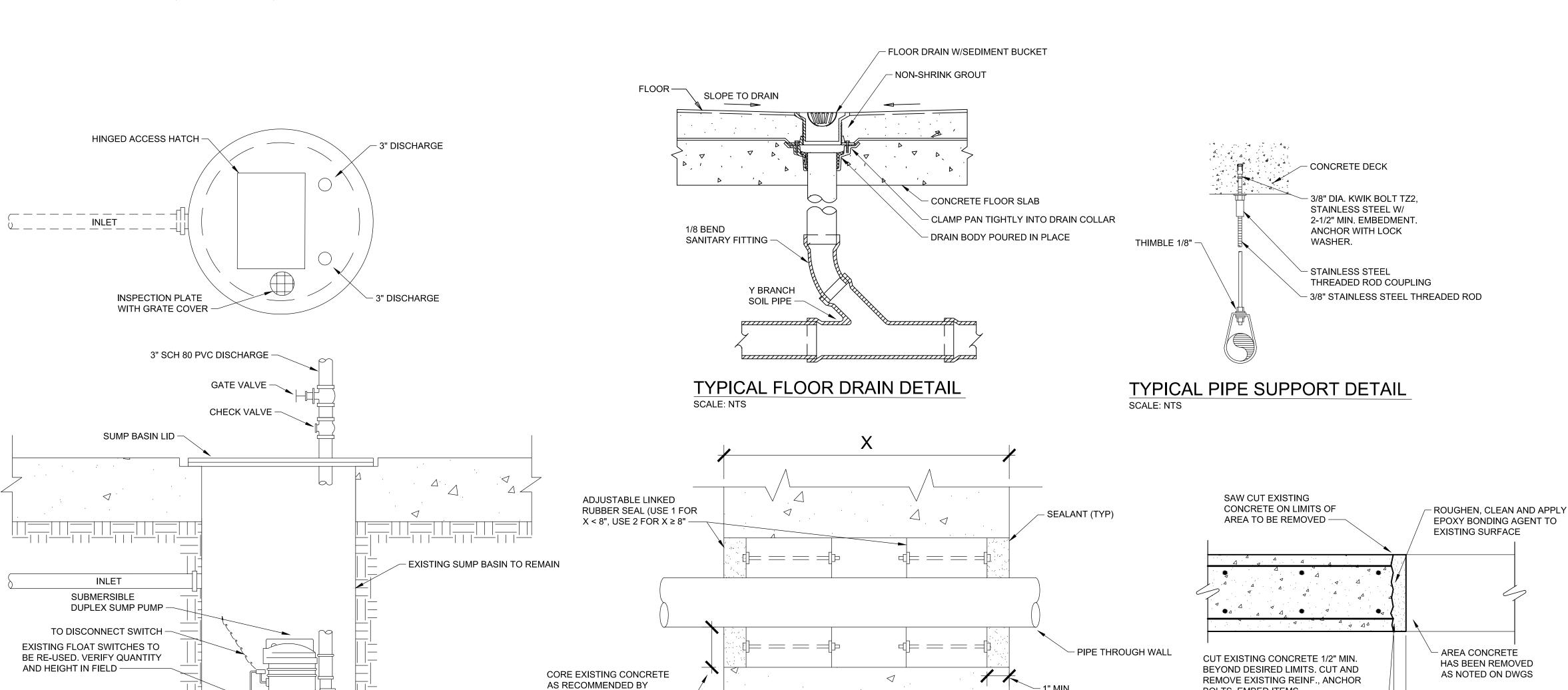
 PROVIDE PUMP REMOVAL SYSTEM WITH FLOOR DISCHARGE ELBOWS AND UL EXPLOSION PROOF BRACKETS, UPPER GUIDE RAIL BRACKETS, STAINLESS STEEL LIFTING CABLES, AND SS GUIDE RAILS.

	PLUMBING FIXTURE SCHEDULE											
	MARK	DESCRIPTION	MANUFACTURER	MODEL		NOTES						
- 1					CW	HW	WASTE	VENT				
ſ	FD-1	ROUND FLOOR DRAIN	JAY R. SMITH	2210	-	_	4	-	1			

NOTE:

PROVIDE SEDIMENT BUCKET, NICKEL BRONZE TOP, AND NO HUB OUTLET. EXCLUDE P-TRAP ON OUTLET.

DUPLEX SUMP PUMP DETAIL



ADJUSTABLE LINKED RUBBER SEAL MANUFACTURER

TYPICAL PIPE PENETRATION LINK SEAL DETAIL
SCALE: NTS

RESURFACING DEMOLITION CONCRETE DETAIL

BOLTS, EMBED ITEMS,

ETC.-RESURFACE PER SPECIFICATIONS -

STRUCTURAL CONCRETE MIX DESIGN

- A. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (f'c): 4000
- B. ALL CONCRETE EXPOSED TO THE ELEMENTS SHALL BE AIR-ENTRAINED IN ACCORDANCE WITH ASTM C260.
- AIR-ENTRAINED IN ACCORDANCE WITH ASTM C260.
- C. ALL CONCRETE AGGREGATE SHALL COMPLY WITH ASTM C33 (NORMAL WEIGHT).
- D. WATER TO CEMENT RATIO (MAX) = 0.44

25 PERCENT IN CONCRETE.

- E. AIR CONTENT PERCENT BY VOLUME = 3 +/- 1%
- F. SLUMP AT POINT OF PLACEMENT
 WITH WATER REDUCING ADMIXTURE: 2" 4"

WITH HIGH RANGE WATER REDUCING ADMIXTURE: 6" - 8"

- G. FLY ASH: ASTM C 618, TYPE C OR TYPE F (CORROSIVE ENVIRONMENTS) WITH LOSS ON IGNITION NOT MORE THAN 6 PERCENT. REPLACEMENT QUANTITY OF CEMENT CONTENT BY
- H. WATER-REDUCING ADMIXTURE: ASTM C 494, TYPE A.
- I. PROHIBITED ADMIXTURES: CALCIUM CHLORIDE THYOCYANATES OR ADMIXTURES CONTAINING MORE THAN 0.1 PERCENT CHLORIDE IONS.

WEIGHT SHALL BE NOT LESS THAN 15 PERCENT OR MORE THAN

J. CEMENT CONTENT PER CUBIC YARD OF CONCRETE: 564 LBS.

CITY OF ANN ARBOR, MICH
WATER TREATMENT PLANT FI
FLOOR DRAINS
FLOOR DEAINS
SCHEDULES

Designed By:

SCHEDULES

Drawn By:
Checked By:

P-501