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- PUMPING EQUIPMENT COMPLETE

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 649 (IL ROUTE 17) SECTION (107)I-2 LIVINGSTON COUNTY

> C-93-098-05 **PUMP STATION REPAIR**

PROJECT LOCATION **READING PUMP STATION R.R. VIADUCT** READING S.N. 053-9902 MANVILLE LIVINGSTON FAP 68

> **LOCATION MAP** NOT TO SCALE

REEL NUMBER RESIDENT ENGINEER AS BUILT CHANGES WERE MADE

J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

DISTRICT NO. 3 1-815-434-6131

PROJECT ENGINEER: TOM HUFNAGEL 1-815-434-8418 UNIT CHIEF: RON WOODSHANK 1-815-434-8419 TOWNSHIP: READING

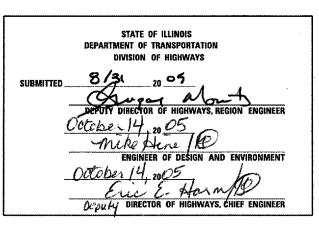
CONTRACT NO. 66593

FAP 649 (IL 17)

CONTRACT NO. 66593 COUNTY TOTAL SHEE SHEETS NO. RTE, SECTION COUNTY TOTAL SHEET 649 (107)1-2 LIVINGSTON 7 SECTION

D-93-002-06





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

LIVINGSTON COUNTY

SECTION (107)I-2

RTE. SECTION 649 (107)1-2 COUNTY LIVINGSTON

GENERAL NOTES

THE CONTRACTOR SHALL VERIFY "ALL" DIMENSIONS IN THE FIELD PRIOR TO ORDERING OF MATERIALS AND BEGINNING CONSTRUCTION.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE COST OF MAKING ANY CONNECTIONS TO AN EXISTING DRAINAGE STRUCTURE OR PIPE SHALL BE INCLUDED IN THE COST OF THE NEW PUMPING SYSTEM.

PREPARED BY: EXAMINED BY: CONSTRUCTION ENGINEER DISTRICT MATERIALS ENGINEER

REVISIO		ILLINOIS DEPARTMENT	OF TRANSPORTATION
NAME	DATE	ILLINOIS DEFAIL MENT	OF THANSPORTATION
			•
			*
		SCALE: VERT.	DRAWN BY RLW
		DATE 08/11/2005	CHECKED BY

RTE. SECTION COUNTY TOTAL SHEETS NO. 649 (107)1-2 LIVINGSTON 7 3

SUMMARY OF QUANTITIES

CONSTRUCTION CODE TYPE: Y007

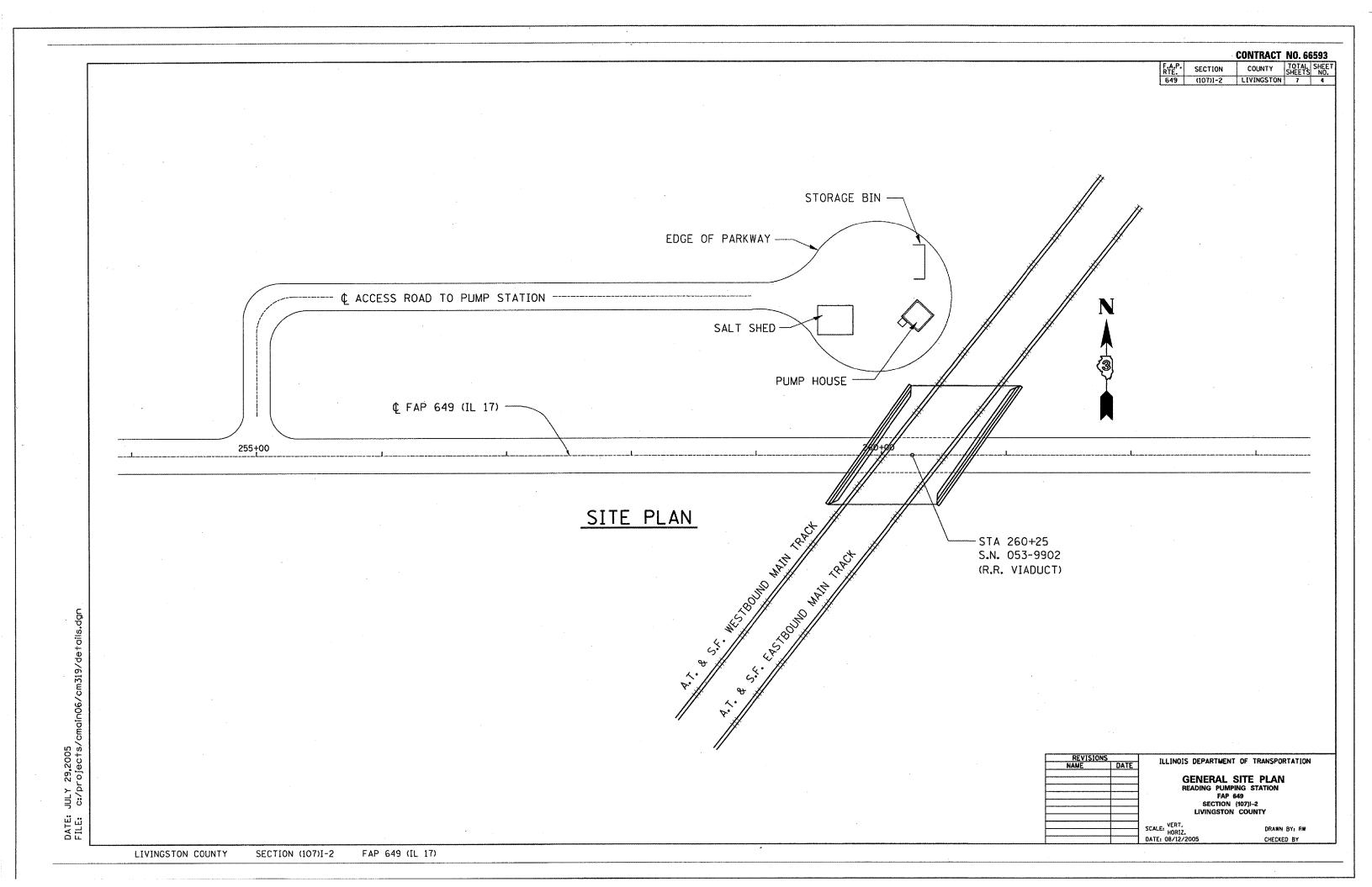
CODE	ITEM		TOTAL
NO.		UNIT	QUANTITY
67100100	MOBILIZATION	L SUM	1
XX003032	GATE VALVE 12"	EACH	2
XX003951	PUMP SYSTEM COMPLETE	L SUM	1
X030157 8	REMOVE EXISTING EQUIPMENT	L SUM	1
X0320599	PUMP STATION TELECOMMUNICATIONS PATHWAY	L SUM	1
X0323449	REMOVE EXISTING WATER VALVE	EACH	2
X0335700	PUMP STATION GENERAL WORK	L SUM	1
X0387200	ELECTRICAL WORK	L SUM	1

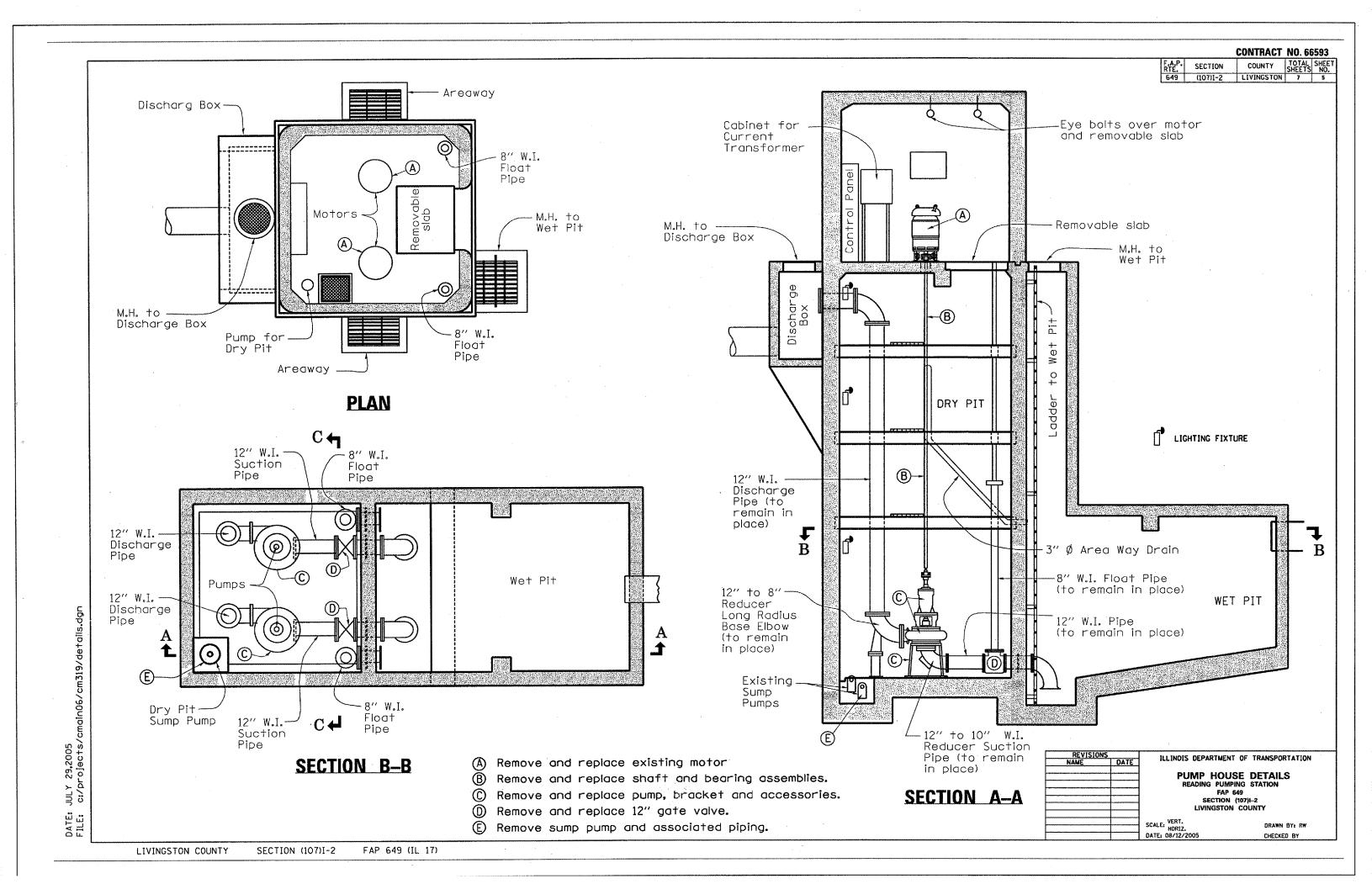
DATE: JULY 29,2005 FILE: c:/projects/cmain06/cm319/detalls.dgn

ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES
READING PUMPING STATION
FAP 649
SECTION (107)I-2
LIVINGSTON COUNTY

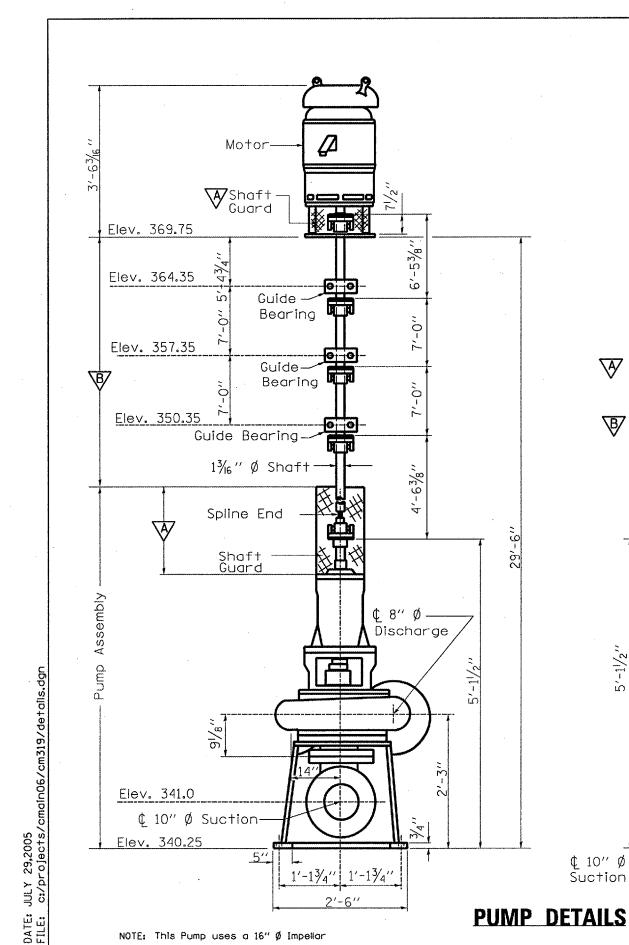
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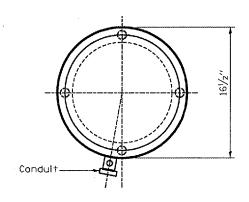
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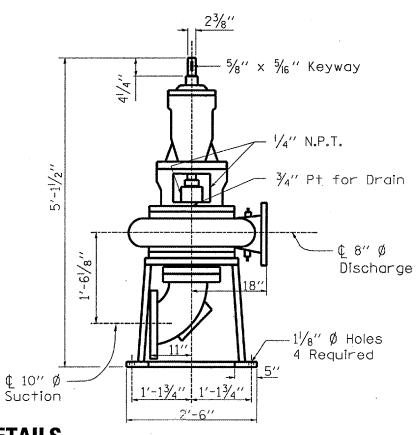
CONTRACT NO. 66593 SECTION COUNTY TOTAL SHEET NO. (107)1-2 LIVINGSTON 7 6 Eye bolts over motor and removable slab Control Panel Ladder to-Dry Pit Removal Panel -Area Way Drain Area Way-Drain Discharge Dry Pit Sump Pump LIGHTING FIXTURE Pipe Handrail (Typ) - Grating (Typ) 12" W.I. Discharge Pipe 12" to 8" Reducer Long Radius Base Elbow -12" W.I. Pipe ILLINOIS DEPARTMENT OF TRANSPORTATION Dry Pit Sump 12" to 10" W.I. Reducer Suction Pipe PUMP HOUSE DETAILS
READING PUMPING STATION
FAP 649
SECTION (107)I-2
LIVINGSTON COUNTY SECTION C-C SCALE: VERT. HORIZ. DATE: 08/12/2005 DRAWN BY: RW CHECKED BY LIVINGSTON COUNTY SECTION (107)I-2 FAP 649 (IL 17)

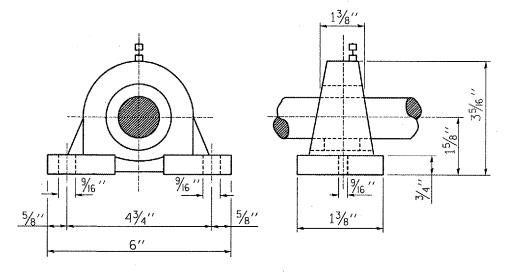




TOP VIEW OF MOTOR BASE

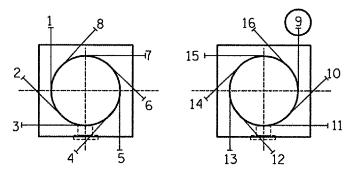
- Area protected by shaft guard supplied by manufacturer of motor or pump.
- Area protected by shaft guard supplied by Contractor.





GUIDE BEARING DETAILS

SHAFT DIA. 13/6"
SHAFT SERIES V37



Drawings illustrates the discharge positions available for C.W. and C.C.W. Rotation when viewed from the driver end of pump. Positions 1 and 9 are considered Standard. Position circled is position of existing pumps.

		FLANGE I	DIMENSIONS		
	NOM. SIZE	FLG. O.D.	NO. OF BOLTS	BOLT DIA.	B.C. DIA.
DISCHARGE	8''	- 13 1/2"	8"	3/4"	11 3/4"
SUCTION	10"	16"	12"	7/8"	14 1/4"

All flanges shall be 125 lb. ANSI

NAME	DATE		
			ENT OF TRANSPORTATION
		PUMPING EQU	IPMENT COMPLETE
		READING PU	MPING STATION
			NP 649
			N (107)!-2
		LIVINGST	ON COUNTY
		SCALE: VERT.	DRAWN BY RLW

LIVINGSTON COUNTY SECTION (107)I-2 FAP 649 (IL 17)

DATE 08/11/2005 CHECKED BY

CONTRACT NO. 66593

RTE. SECTION COUNTY TOTAL SHEETS NO. 649 (107)1-2 LIVINGSTON 7 7