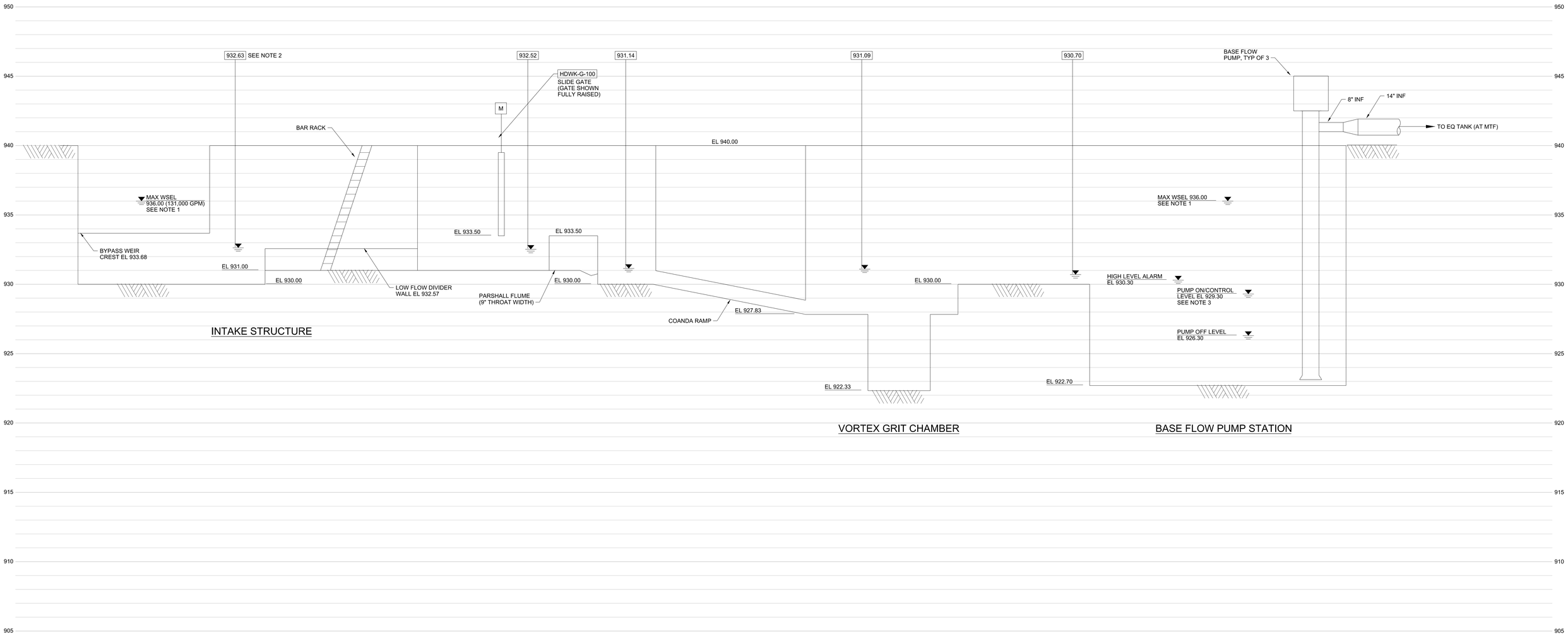

BASE FLOW HYDRAULIC PROFILE

3/8"=1'-0" (VERT SCALE)

KEY

WSEL = WATER SURFACE ELEVATION

XXX.XX — WSEL AT 3,000 GPM

NOTES:

1. MAXIMUM STREAM WSEL IS AT THE APPROXIMATE 100-YEAR FLOOD LEVEL. THIS IS THE MAXIMUM WSEL THAT COULD OCCUR IN THE STORM FLOW SYSTEM UNDER A FAILURE OF THE PUMP STATION, GATE AND/OR CONTROLS.
2. THIS WSEL IS THE ELEVATION RESULTING FROM A FLOW OF 3,000 GPM THROUGH THE BASE FLOW PARSHALL FLUME.
3. THIS WSEL IS THE CONTROL LEVEL IN THE PUMP STATION. IT IS THE LEVEL MAINTAINED DURING NORMAL OPERATION, AND ALSO IS THE PUMP START LEVEL WHEN IN CYCLING MODE AT LOW FLOWS.

FLOW CONTROL STAGES

STAGE 1 - STREAM FLOW LESS THAN 3,000 GPM. FREE FLOW TO BASE SIDE.

STAGE 2 - STORM FLOW GATE ADJUSTS TO MAINTAIN INTAKE WSEL = 932.63 FT. FLOWS OVER 3,000 GPM TO STORM SIDE.

STAGE 3 - BASE AND STORM FLOW GATES MODULATE TO CONTROL BASE AND STORM FLOWS AT 3,000 GPM AND 37,500 GPM, RESPECTIVELY. EXCESS FLOW PASSES OVER BYPASS WEIR WALL.

THIS DRAWING IS LOANED FOR SOLE USE OF THE INTENDED RECIPIENT AND ONLY FOR THE LIMITED PURPOSES FOR WHICH IT WAS PROVIDED. USE BY OTHER ENTITIES OR FOR OTHER PURPOSES IS PROHIBITED AND AT THE USER'S OWN RISK. DRAWINGS ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING RECIPIENT.

PART	REV	DESCRIPTION	DRW	CHKR	DE	DVR	DM	DATE	PE	DATE	REVISION APPROVALS	WE	AR	CV	ST	HV	EM	FP	PD	EE	IE	M	NP
	0	ISSUED FOR CONSTRUCTION	CS	QW	SP		LE	06/2017															

REVISION OR ISSUE PURPOSE — SQUAD CHECK

RPE — REV. — DATE

DRAWING APPROVALS		DATE
DRW	C SCHNEE	06/16/17
CHKR	Q WANG	06/16/17
DE	S POLSON	06/16/17
DVR		
DM	L ELLIS	06/16/17
PE	Teresa J. Pierce, P.E.	

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OF200 Mercury Treatment Facility

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under U. S. Government contract DE-SC-0004645

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PROJECT NAME:
OF200 MERCURY TREATMENT FACILITY

GENERAL
HEADWORKS
BASE FLOW HYDRAULIC PROFILE

USE	DISC	DT	DC	CM	SYSTEM	STAT	SIZE	BLDG	FL	CLASS
3	M	X	X	NC	FAC	AR	E	9410-01	X	U

SH.	OF	TYPE		PART	REV
1	1	DD	M941001-F-0006	000	0

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