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### ADDENDUM NO. 3 TO PLANS AND SPECIFICATIONS FOR THE ALPENA WATER PRODUCTION PLANT (WPP) CLEARWELL REPLACEMENT & INFRASTRUCTURE IMPROVEMENTS

ISSUED: March 13, 2024

HRC Job No. 20220751

This Addendum is issued prior to receipt of bids to provide for certain changes and clarifications to the Drawings and/or Specifications, as herein specified, and is hereby made a part of the Contract Documents and shall be taken into consideration in preparing the Proposal. All other conditions remain the same.

The Bidder shall acknowledge the receipt of this Addendum in the Proposal form.

#### **SPECIFICATION MANUAL CHANGES:**

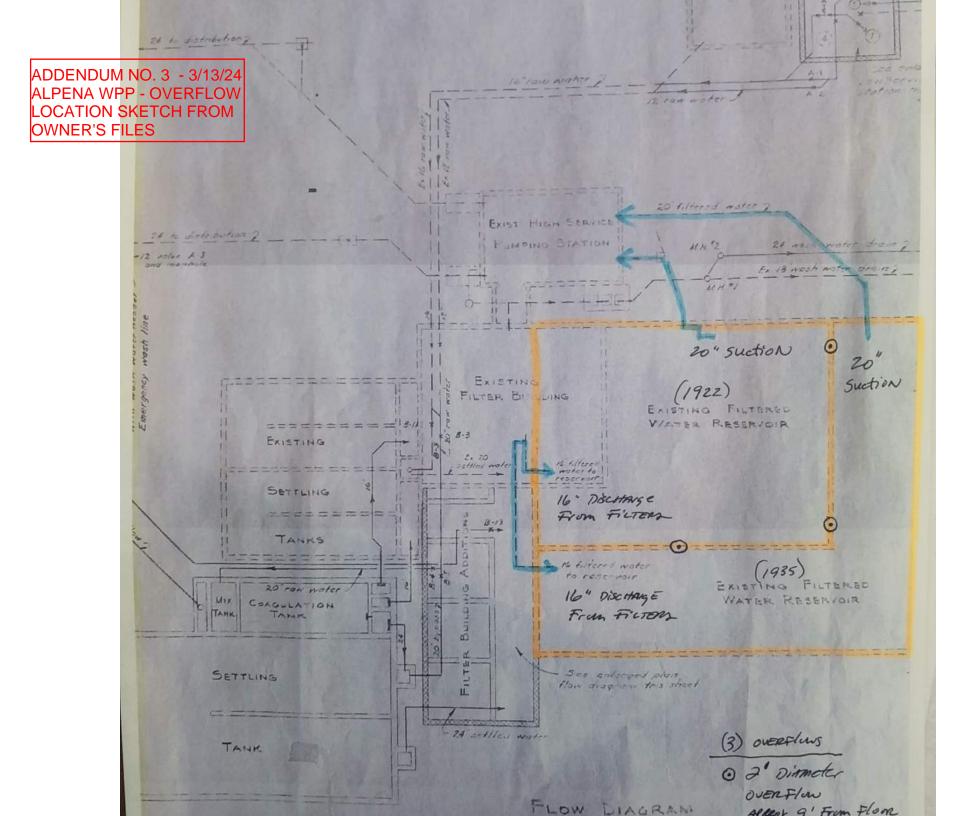
- 1. Section 01950 SPECIAL PROJECT REQUIREMENTS
  - a. CLARIFICATIONS: I. Whe
    - Where the project calls for draining the existing clearwells during a temporary bypass, the Plant personnel will drain these structures to the extent possible and the Contractor shall be responsible for removal of the remaining water (estimated 50,000 gallons) to the backwash lagoons (via Manhole 4).
    - II. The only information available regarding the size and location of the (3) overflow holes in the common wall between Cell 1 and Cell 2 is shown on the attached sketch that was provided from the Owner's files. This information has not been field verified but, the holes were described as approximately 2 ft in diameter, 9 ft above the tank floor.
- 2. Section 01950 SPECIAL PROJECT REQUIREMENTS
  - a. Add the following item "5.iv" under Section 3.02 in the suggested general sequence:

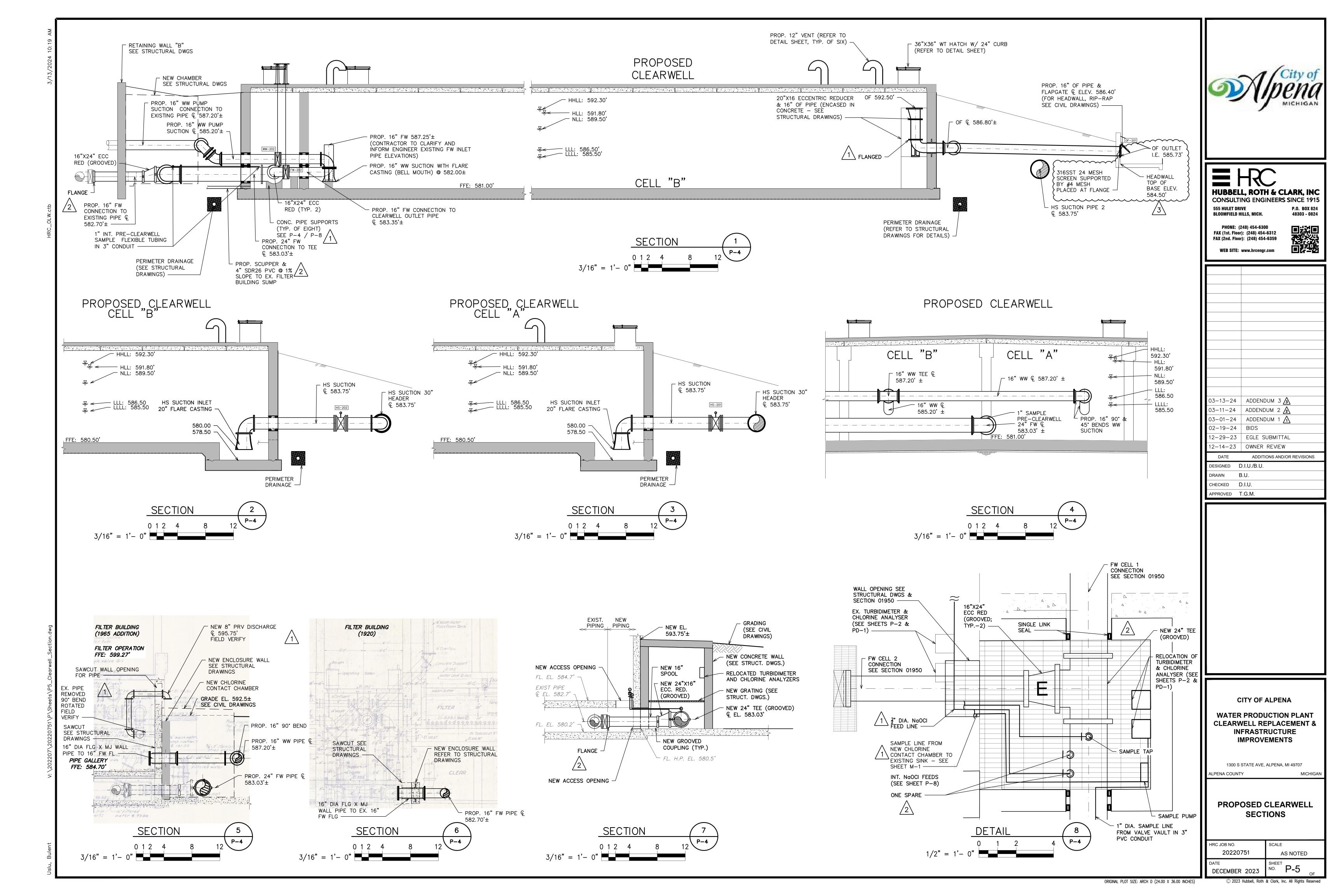
iv. Complete the Clearwell Disinfection as outlined below in Section 3.03 before returning Clearwell Cell 2 into service.

#### DRAWING CHANGES:

- 1. SHEET P-5 (Issued) See updated sheet.
- 2. SHEET P-9 (Issued) See updated sheet.

#### END OF ADDENDUM





## PIPE SCHEDULE

SERVICE	DESCRIPTION	LOCATION	MATERIAL	SIZE (IN)	JOINT	TEST PRESSURE	
FW	FILTERED WATER	YARD, CLEARWELL	CL 54 DI	16, 24	FJ, RJ, GC	150	
HS	HIGH SERVICE (SUCTION)	YARD	CL 54 DI	20, 30	RJ	150	
WW	WASHWATER	YARD, CLEARWELL	CL 54 DI	16	FJ, RJ	150	
PD	PERIMETER DRAIN FORCE MAIN	YARD	C900 DR 17 PVC	4, 6	FJ, RJ	150	
NAOCL/CL	SODIUM HYPOCHLORITE SOLUTION	PIPE GALLERY	PVC SCH 80	SEE PLANS	WJ	150	USE

## PIPING GENERAL NOTES AND KEY

- 1. INSTALL ALL PIPING SUPPORTS AND PIPING IN ACCORDANCE WITH THE LATEST EDITION OF THE ASME
- ANSI POWER PIPING CODE B 31.1. 2. WELD ALL STEEL PIPE WITH FLANGES WHERE MAKING CONNECTIONS TO EXISTING STEEL PIPE OR VALVES.
- 3. LOCATE PRESSURE TAPS ON THE TOP OF PROCESS PIPES. 4. LOCATE SAMPLE TAPS ON THE SIDE OF PROCESS PIPES.
- 5. LOCATE DRAIN TAPS ON THE BOTTOM OF PROCESS PIPES.
- 6. UNLESS OTHERWISE NOTED PIPE ELEVATIONS SHOWN ON PIPING DRAWINGS REFER TO CENTERLINE OF THE PIPE.
- 7. DISINFECT ALL WATER PIPING PER AWWA C651 AFTER PIPE HAS PASSED PRESSURE AND LEAK TESTING. PROCESS PIPING

11100000		
HDPE	HIGH DENSITY POLYETHYLENE	PIPE
SS	STAINLESS STEEL	

<u>PIPE JOIN</u>	<u>TS</u>
AFC	ADAPTER FLANGE COUPLING
BFC	BOLTED FLEXIBLE COUPLING
BSL	BELL AND SPIGOT STEEL
FJ	FLANGED JOINT
RJ	RESTRAINED JOINT
GC	GROOVED COUPLING
MJ	MECHANICAL JOINT
WJ	WELDED JOINT

## VALVE SCHEDULE

TAG	VALVE TYPE	LOCATION	SERVICE	CLASS	SIZE (IN)	JOINT	OPERATOR
FW-101	RGV-F	FILTERED WATER ISOLATION TO CLEARWELL CELL 1	FW	150	16	FL	Н
WW-201	BV-F	WASHWATER ISOLATION TO CLEARWELL CELL A	WW	150	16	FL	G, WN
WW-202	BV-F	WASHWATER ISOLATION TO CLEARWELL CELL B	WW	150	16	FL	G, WN
FW-201	BV-F	FILTERED WATER ISOLATION TO CLEARWELL CELL A	FW	150	16	FL	G, WN
FW-202	BV-F	FILTERED WATER ISOLATION TO CLEARWELL CELL B	FW	150	16	FL	G, WN
HS-201	BV-M	HIGH SERVICE SUCTION ISOLATION / CLEARWELL CELL A	FW	150	20	MJ	G, WN
HS-202	BV-M	HIGH SERVICE SUCTION ISOLATION / CLEARWELL CELL B	FW	150	20	MJ	G, WN

## VALVE GENERAL NOTES AND KEY

1. THE VALVE AND GATE SCHEDULES GIVES THE DESIGNATION FOR EACH VALVE AND GATE, ITS LOCATION, SERVICE SIZE, QUANTITY AND OTHER PERTINENT DATA.

- 2. IN GENERAL, BURIED VALVES AND VALVES OR GATES SMALLER THAN 4 INCHES MAY NOT BE INCLUDED IN THE SCHEDULE. 3. INSTALL NAMEPLATES ON ALL (NEW AND EXISTING) VALVE AND EQUIPMENT AS TAGGED IN THE SCHEDULES PER SECTION 15000
- 4. ALIGN FLOORSTANDS AND EXTENSIONS STEMS WITH VALVE ACTUATOR NUT IN FIELD (CORE CONCRETE IN FIELD AS REQUIRED PER ENGINEER APPROVAL)

#### <u>VALVE JOINT</u> BS BELL AND SPIGOT

FLANGED JOINT GC GROOVED COUPLING

- MJ MECHANICAL JOINT
- W WAFER

- <u>OPERATOR</u> BG BEVEL GEAR
- CW CHAIN WHEEL (LENGTH) H HANDWHEEL
- EM ELECTRIC MOTOR
- LW LEVER/WEIGHT
- P POSITIONER
- POC PNEUMATIC CYLINDER POD PNEUMATIC DIAPHRAGM
- WN WRENCH NUT
- BS BENCH STANDS CP CONTROL PACKAGE

ACCESSORIES

- EB EXTENSION BONNET
- ES EXTENSION STEM SHAFT (LENGTH)
- FB FLOOR BOX (LENGTH) FS FLOOR STAND (LENGTH)
- LS LIMIT SWITCH
- MS MANUAL SCREW
- PI POSITION INDICATOR
- PO PORTABLE OPERATOR
- RPI REMOTE POSITION INDICATOR
- SC STEM COVER
- SG STEM GUIDE
- TW T WRENCH VB VALVE BOX (LENGTH)
- WB WALL BRACKÈT
- WG WORM GEAR
- GATE SCHEDULE

MARK	LOCATION	ТҮРЕ	MATERIAL	OPENING SIZE (FT) (WXH)	NOMINAL SIZE (FT) (WXH)	QUANTITY	MAXIMUM SEATING HEAD (FT)	MINIMUM UNSEATING HEAD (FT)	FRAME TYPE	FRAME MOUNT	REMARKS
FG-100	CLEARWELL OVERFLOW FLAP GATE	FG	SS	16"	16"	1	0	0.5	NSC	S	

<u>REMARKS</u>

CL CLASS

FC FAIL CLOSE

FO FAIL OPEN

OS OPEN SHUT

TH THROTTLING

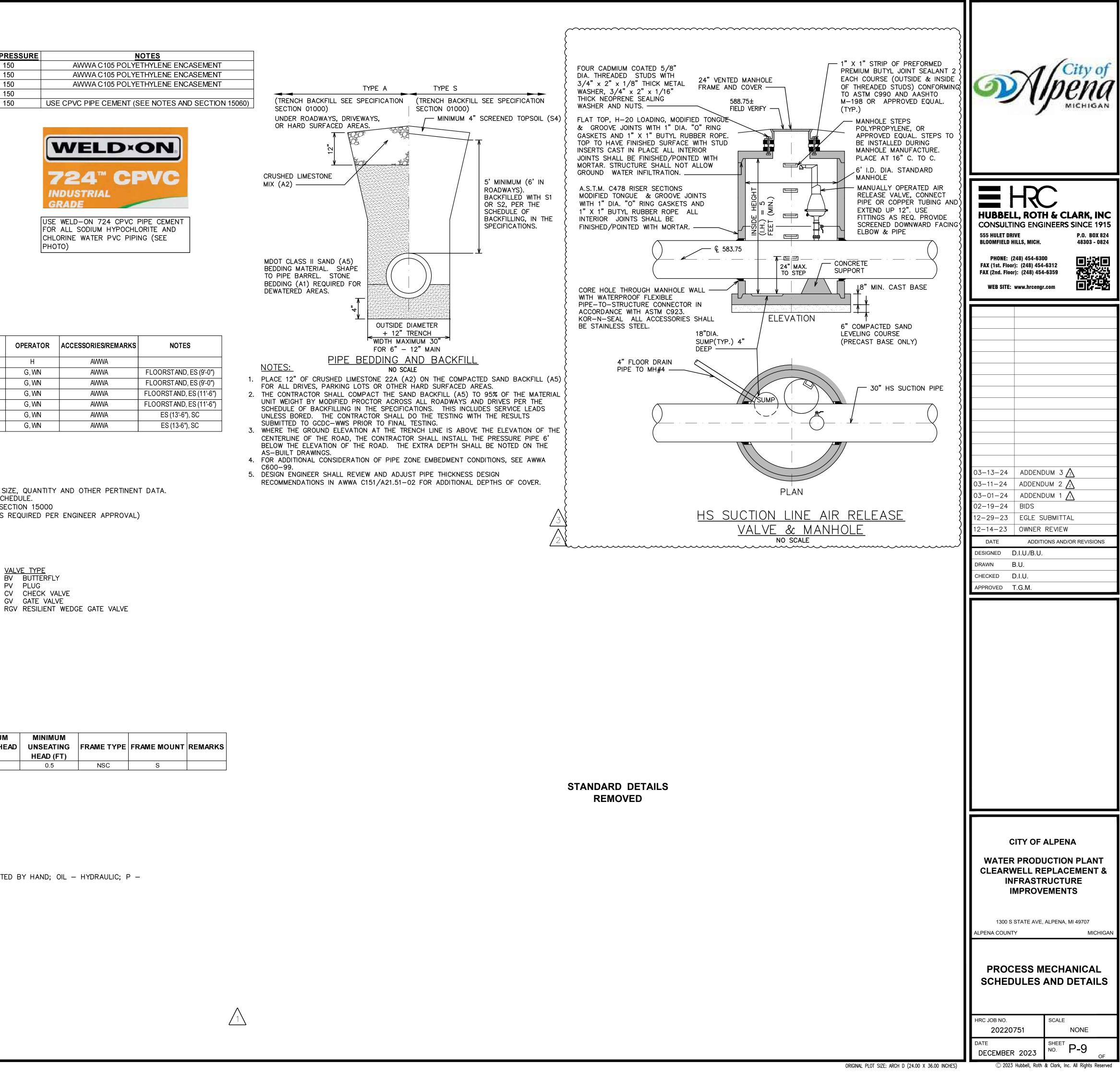
GB GROUND BURIED

NRS NON RISING STEM

RF RUBBER FLAPPER

## GATE SCHEDULE KEY

- LOCATION: CHAMBER AT WHICH GATES ARE TO BE MOUNTED
- . GATE TYPE: SP-STOP PLATE; SG-SLIDE GATE; FG-FLAP GATE 3. MATERIAL: SS-STAINLESS STEEL, CI-CAST IRON, R-RUBBER
- 4. FRAME TYPE: NSC-NON SELF-CONTAINED; SC-SELF-CONTAINED
- . FRAME MOUNT: WT-WALL THIMBLE; S-SURFACE MOUNTED; P-PIPE MOUNTED
- 6. FLUSH BOTTOM: YES OR NO STEM TYPE: NR-NONRISING: R-RISING
- 8. OPERATOR: EM ELECTRIC MOTOR; MHW MANUAL HANDWHEEL; MCR-MANUAL GEAR DRIVE; H-MANUAL LIFTED BY HAND; OIL HYDRAULIC; P -PILOT VALVE 9. OPERATOR MOUNTING: SP - STRAIGHT PEDESTAL
- 10. JOINT DESIGNATION: FJ FLANGED JOINT; SJ SWEATED JOINT; WJ WELDED JOINT



CV CHECK VALVE GV GATE VALVE

PV PLUG

