

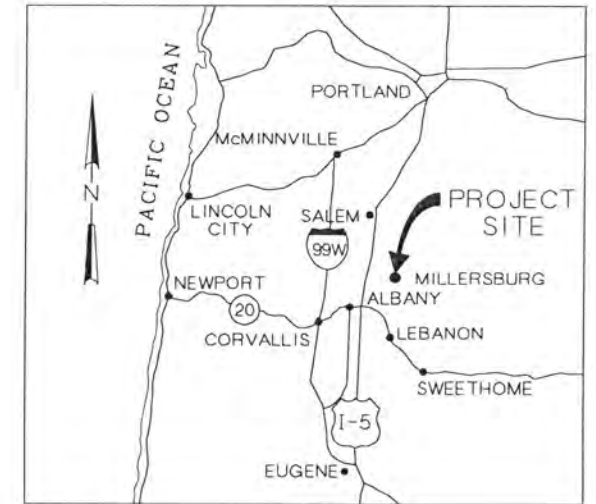
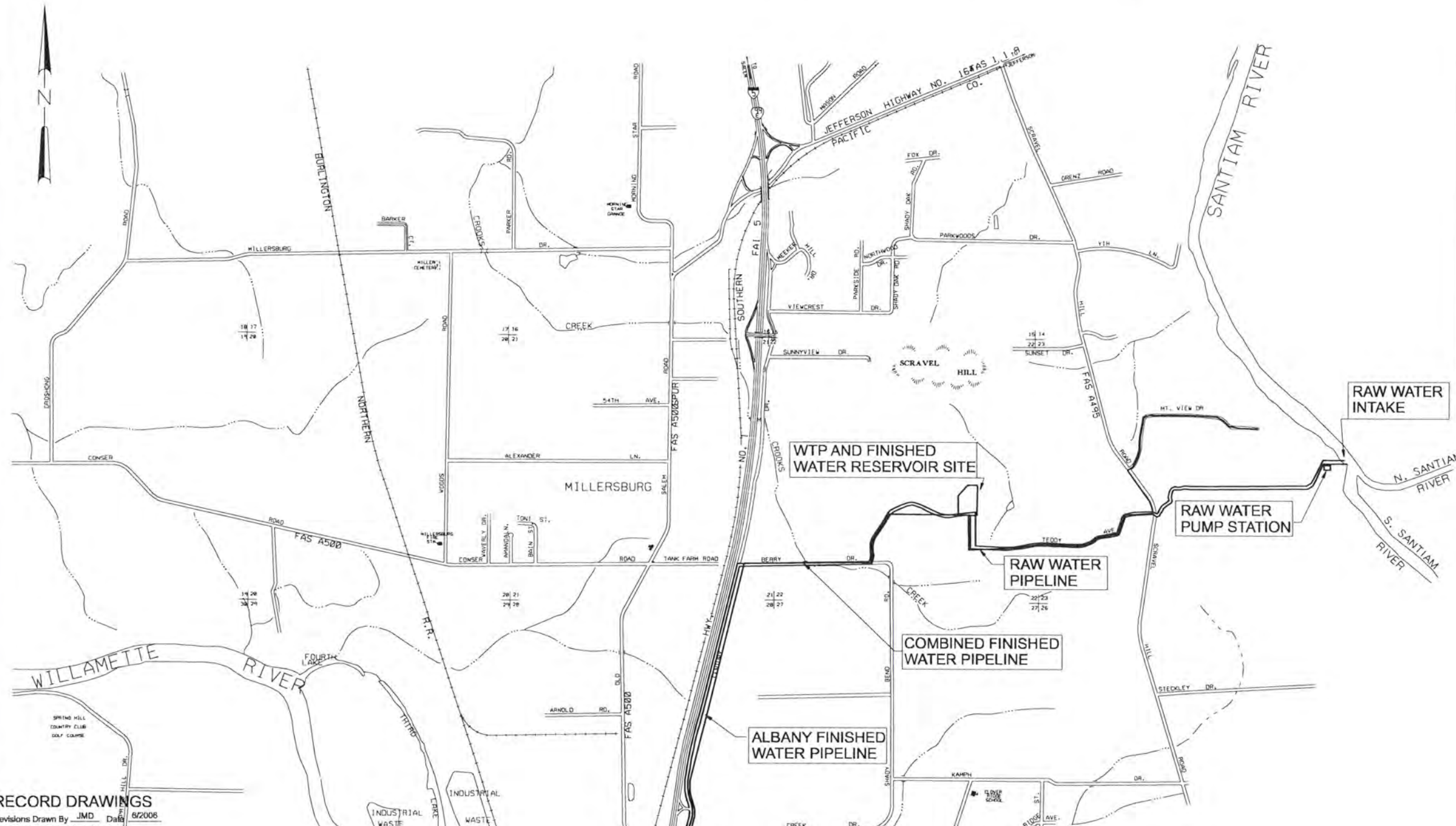
**ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT**

W-01-04

**Record Drawings
Book 1 of 2**

CH2MHill
April 2004

ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT LINN COUNTY, OREGON



VICINITY MAP

LOCATION MAP

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DR	WB LOVE						
CHK	CW MASSIE	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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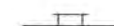
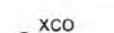


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JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

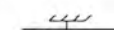




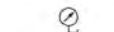



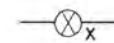

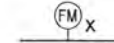
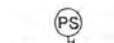
GENERAL
LOCATION AND VICINITY MAPS

SHEET	01
DWG	01-G-01
DATE	APRIL 2004
PROJ	170368

BUILDING SERVICES SYMBOLS

-  HOSE RACK (TYPE AS INDICATED)
-  XCO
- X = F - FLOOR CLEANOUT
D - DECK CLEANOUT
W - WALL CLEANOUT
-  FD-XY
- FLOOR DRAIN
X - NO. IN SPECS
Y - T WITH TRAP
Y - P WITH PRIMED TRAP
-  HD-XY
- HUB DRAIN
X - NO. IN SPECS
Y - T WITH TRAP
Y - P WITH PRIMED TRAP

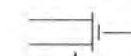
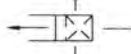
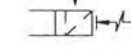
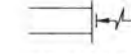
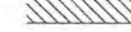
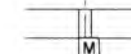
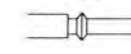

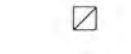
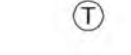

MISCELLANEOUS PIPING SYMBOLS

-  ANCHOR
-  PIPE ALIGNMENT GUIDE
-  FLEXIBLE (ELASTOMER) PIPE CONNECTION
-  STRAINER
-  SIGHT GLASS
-  GAUGE WITH COCK
-  THERMOMETER
-  ROTAMETER
-  GAUGE GLASS WITH COCKS
-  STEAM TRAP
X = NO. IN SPECS
-  FLOW SWITCH
-  FLOW METER
X = NO. SHOWN IN SPECS
-  PRESSURE SWITCH

PLUMBING FIXTURE IDENTIFICATION

- FCO FLOOR CLEANOUT
 - FD FLOOR DRAIN
 - HV HOSE VALVE
 - LAV LAVATORY
 - MS MOP SINK
 - ON OVERFLOW NOZZLE
 - PRV PRESSURE REGULATING VALVE
 - SH SHOWER
 - SK SINK
 - SSH SAFETY SHOWER
 - TK TANK
 - WC WATER CLOSET
 - WH WATER HEATER
 - HD HUB DRAIN
 - LSK LAB SINK
 - UR URINAL
 - HR HOSE RACK
 - CO CLEANOUT
- EXAMPLE:**
- FIXTURE LEGEND
- NO. IN SPECIFICATIONS
-  LAV-2

HEATING, VENTILATING, AND AIR CONDITIONING SYMBOLS

-  WALL REGISTER OR GRILLE (SUPPLY)
SR, SG
-  CEILING DIFFUSER OR REGISTER (SUPPLY)
CD
-  CEILING REGISTER OR GRILLE (TRANSFER, RETURN AND EXHAUST)
EG, ER, RG, RR, TG, TR
-  WALL REGISTER OR GRILLE (TRANSFER, RETURN AND EXHAUST)
EG, ER, RG, RR, TG, TR
-  LINED DUCT
-  MOTORIZED DAMPER
-  FLEXIBLE CONNECTION
-  SUPPLY DUCT (SECTION)
-  INTAKE, RETURN, OR EXHAUST DUCT (SECTION)
-  THERMOSTAT
-  DAMPER MOTOR

HVAC EQUIPMENT IDENTIFICATION AND ABBREVIATIONS

- BDD BACKDRAFT DAMPER
- BOD BOTTOM OF DUCT
- CBBD COUNTERBALANCED BACKDRAFT DAMPER
- CD CEILING DIFFUSER
- CFM CUBIC FEET PER MINUTE
- DB DRY BULB
- EF EXHAUST FAN
- ESP EXTERNAL STATIC PRESSURE
- ESS EMERGENCY SHUTDOWN SWITCH
- FC FLEXIBLE CONNECTION
- FD FIRE DAMPER
- FPM FEET PER MINUTE
- IG INTAKE GRILLE
- MBH THOUSAND BTU PER HOUR
- MD MOTORIZED DAMPER
- OBD OPPOSED BLADE DAMPER
- OSA OUTSIDE AIR
- OSAT OUTSIDE AIR TEMPERATURE
- RA RETURN AIR
- SCFM STANDARD CUBIC FEET PER MINUTE
- SF SUPPLY FAN
- SG SUPPLY GRILLE
- SR SUPPLY REGISTER
- TG TRANSFER GRILLE
- TRANS TRANSITION
- UH UNIT HEATER
- VEL VELOCITY
- WH WALL HEATER

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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DR	KL WELP/AG OLSON						
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

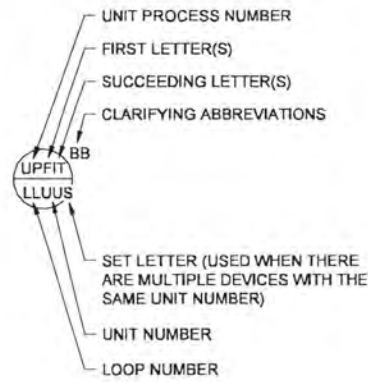
GENERAL
BUILDING SERVICES LEGEND

SHEET	09
DWG	01-G-09
DATE	APRIL 2004
PROJ	170368

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INSTRUMENT IDENTIFICATION

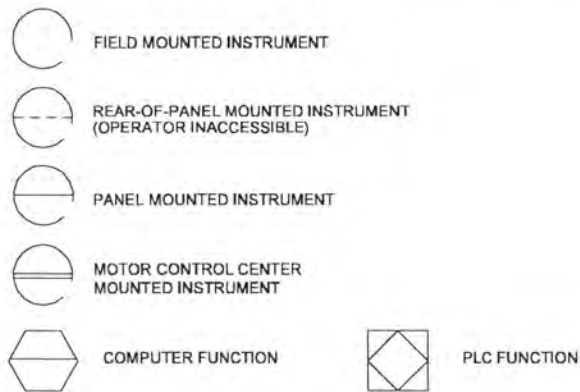
EXAMPLE SYMBOLS



DIGITAL SYSTEM INTERFACES

- ▲ ANALOG INPUT WHERE X=
- ▼ ANALOG OUTPUT A - ALARM
- △_x DISCRETE INPUT H - MAINTAINED
- ▽_x DISCRETE OUTPUT M - MOMENTARY
- S - STATUS

GENERAL INSTRUMENT OR FUNCTIONAL SYMBOLS



TRANSDUCERS

- A ANALOG
- D DIGITAL
- E VOLTAGE
- F FREQUENCY
- H HYDRAULIC
- I CURRENT
- P PNEUMATIC
- PF PULSE FREQUENCY
- PD PULSE DURATION
- R RESISTANCE

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006
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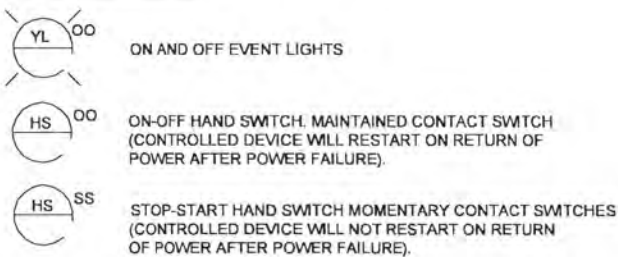
DSGN	JD KANYUCH	NO.	1	DATE	6/2006	RECORD DRAWING	BY	APVD	CW MASSIE
DR	PM HAMLIN								
CHK	LL WOOD								
APVD	CW MASSIE								

INSTRUMENT IDENTIFICATION LETTERS TABLE

LETTER	FIRST-LETTER		SUCCEEDING-LETTERS		
	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS (+)		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE (*)	USER'S CHOICE (*)	USER'S CHOICE (*)
C	USER'S CHOICE (*)			CONTROL	
D	DENSITY (S.G)	DIFFERENTIAL			
E	VOLTAGE		PRIMARY ELEMENT, SENSOR		
F	FLOWRATE	RATIO (FRACTION)			
G	USER'S CHOICE (*)		GLASS, GAUGE VIEWING DEVICE	GATE	
H	HAND (MANUAL)				HIGH
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	MOTION	MOMENTARY			MIDDLE, INTERMEDIATE
N	TORQUE		USER'S CHOICE (*)	USER'S CHOICE (*)	USER'S CHOICE (*)
O	USER'S CHOICE (*)		ORIFICE, RESTRICTION		
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD OR PRINT		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED (+)	X AXIS	UNCLASSIFIED (+)	UNCLASSIFIED (+)	UNCLASSIFIED (+)
Y	EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION	Z AXIS		DRIVE, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

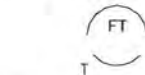
TABLE BASED ON THE INSTRUMENTATION, SYSTEMS, AND AUTOMATION SOCIETY (ISA) STANDARD.
 (+) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS.
 (*) WHEN USED, DEFINE THE MEANING HERE FOR THE PROJECT

SPECIAL CASES



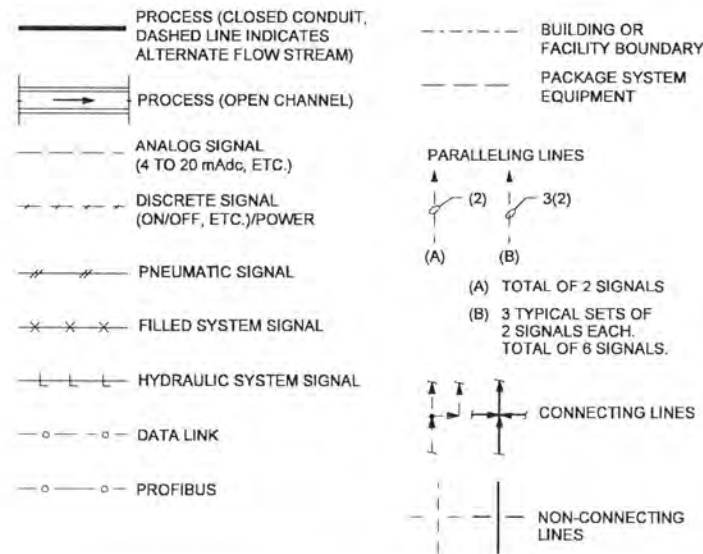
ACCESSORY DEVICES

EXAMPLE: TRANSMITTER AS AN ACCESSORY TO A FLOW ELEMENT

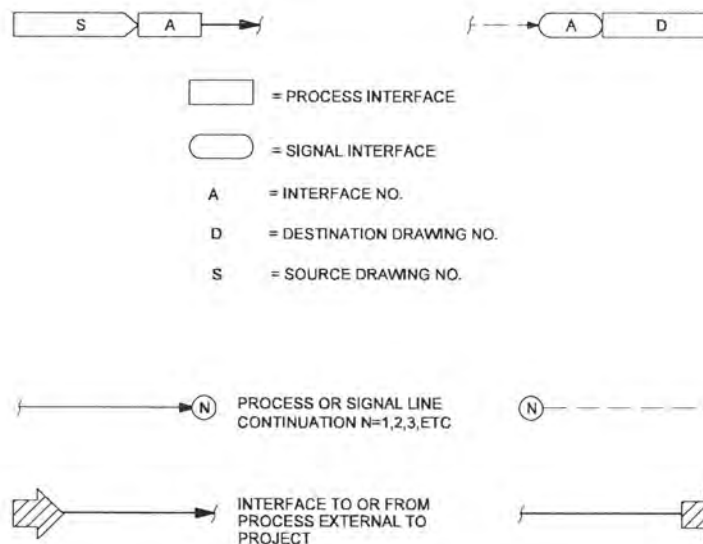


- A - ALARM
- C - CONTROLLER
- I - INDICATOR
- R - RECORDER
- S - SWITCH
- T - TRANSMITTER
- X - UNCLASSIFIED

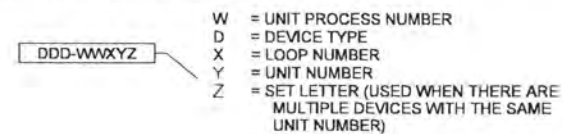
LINE LEGEND



INTERFACE SYMBOLS



SELF CONTAINED VALVE & EQUIPMENT TAG NUMBERS



ABBREVIATIONS & LETTER SYMBOLS

- AC ALTERNATING CURRENT
- AM AUTO-MANUAL
- CAM COMPUTER-AUTO-MANUAL
- CAT5 CATEGORY 5 CABLE
- CCS CENTRAL CONTROL SYSTEM
- CL₂ etc. CHLORINE (TYPICAL: USE STANDARD CHEMICAL ELEMENT ABBREVIATION)
- CM COMPUTER-MANUAL
- CN CONTROLNET
- CNET CONTROLNET
- COD CHEMICAL OXYGEN DEMAND
- COND CONDUCTIVITY
- CP-X CONTROL PANEL NO. X
- DC DIRECT CURRENT
- DCS DISTRIBUTED CONTROL SYSTEM
- DCU DISTRIBUTED CONTROL UNIT
- DO DISSOLVED OXYGEN
- ENET ETHERNET
- FCL₂ FREE CHLORINE RESIDUAL
- FL FLUORIDE
- FOS FAST-OFF-SLOW
- FOSA FAST-OFF-SLOW-AUTO
- FOSR FAST-OFF-SLOW-REMOTE
- FP-W-X FIELD PANEL NO. WX (W = UNIT PROCESS NUMBER X = PANEL NUMBER)
- FR FORWARD-REVERSE
- HOA HAND-OFF-AUTO
- HOR HAND-OFF-REMOTE
- ISR INTRINSICALLY SAFE RELAY
- LEL LOWER EXPLOSIVE LIMIT
- LOS LOCKOUT STOP
- LR LOCAL-REMOTE
- MA MANUAL-AUTO
- MC MODULATE-CLOSE
- MCC-X MOTOR CONTROL CENTER NO. X
- MMFO MULTI-MODE FIBER OPTIC
- MSC MANUFACTURER SUPPLIED CABLE
- OC OPEN-CLOSE (D)
- OCR OPEN-CLOSE-REMOTE
- OCA OPEN-CLOSE-AUTO
- OO ON-OFF
- OOA ON-OFF-AUTO
- OOR ON-OFF-REMOTE
- ORP OXIDATION REDUCTION POTENTIAL
- OSC OPEN-STOP-CLOSE
- pH HYDROGEN ION CONCENTRATION
- PLC PROGRAMMABLE LOGIC CONTROLLER
- PROC PROCESSOR
- PS POWER SUPPLY
- RM-X REMOTE MULTIPLEXING MODULE NO. X
- RTU-X REMOTE TELEMETRY UNIT NO. X
- SF SLOWER-FASTER
- SMFO SINGLE-MODE FIBER OPTIC
- SS START-STOP
- SSC SUPERVISORY SET POINT CONTROL
- TCL₂ TOTAL CHLORINE RESIDUAL
- TOC TOTAL ORGANIC CARBON
- TOD TOTAL OXYGEN DEMAND
- TURB TURBIDITY
- √ SQUARE ROOT
- AVG AVERAGE
- 1:1 REPEAT OR BOOST

GENERAL NOTES

- COMPONENTS AND PANELS SHOWN WITH A SINGLE ASTERISK (*) ARE TO BE PROVIDED AS PART OF A PACKAGE SYSTEM.
- COMPONENTS AND PANELS SHOWN WITH A DOUBLE ASTERISK (***) ARE TO BE PROVIDED UNDER DIVISION 16, ELECTRICAL.
- THIS IS A STANDARD LEGEND. THEREFORE, NOT ALL OF THIS INFORMATION MAY BE USED ON THIS PROJECT.

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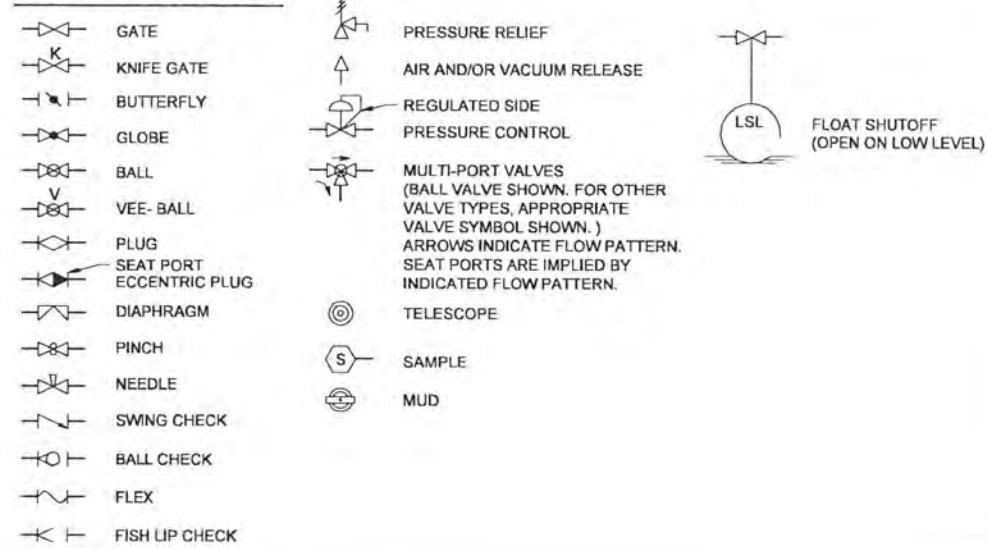
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

GENERAL
 INSTRUMENTATION AND CONTROL LEGEND
 SHEET 1

SHEET	10
DWG	01-G-10
DATE	APRIL 2004
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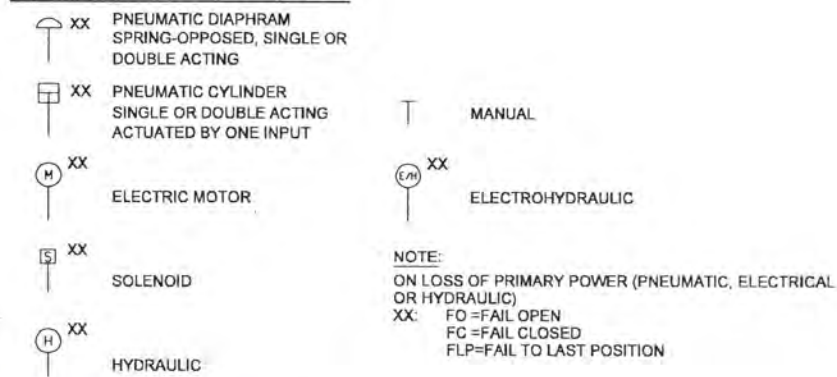
VALVE SYMBOLS



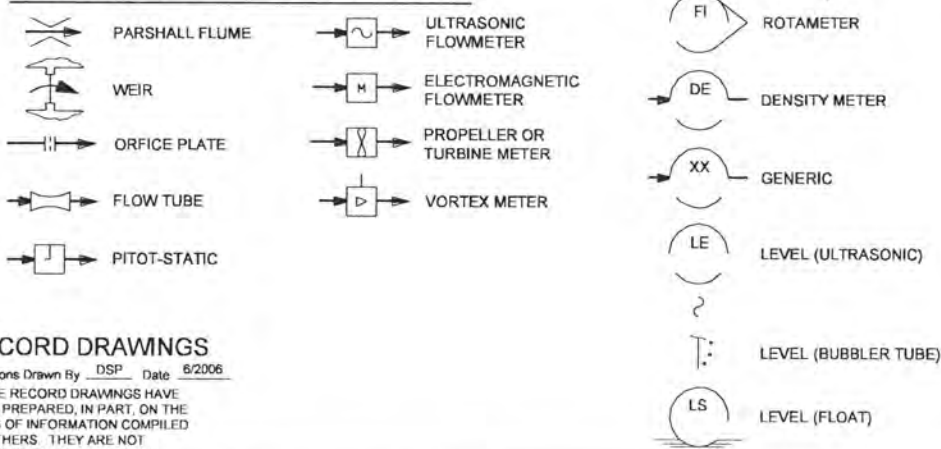
GATE SYMBOLS



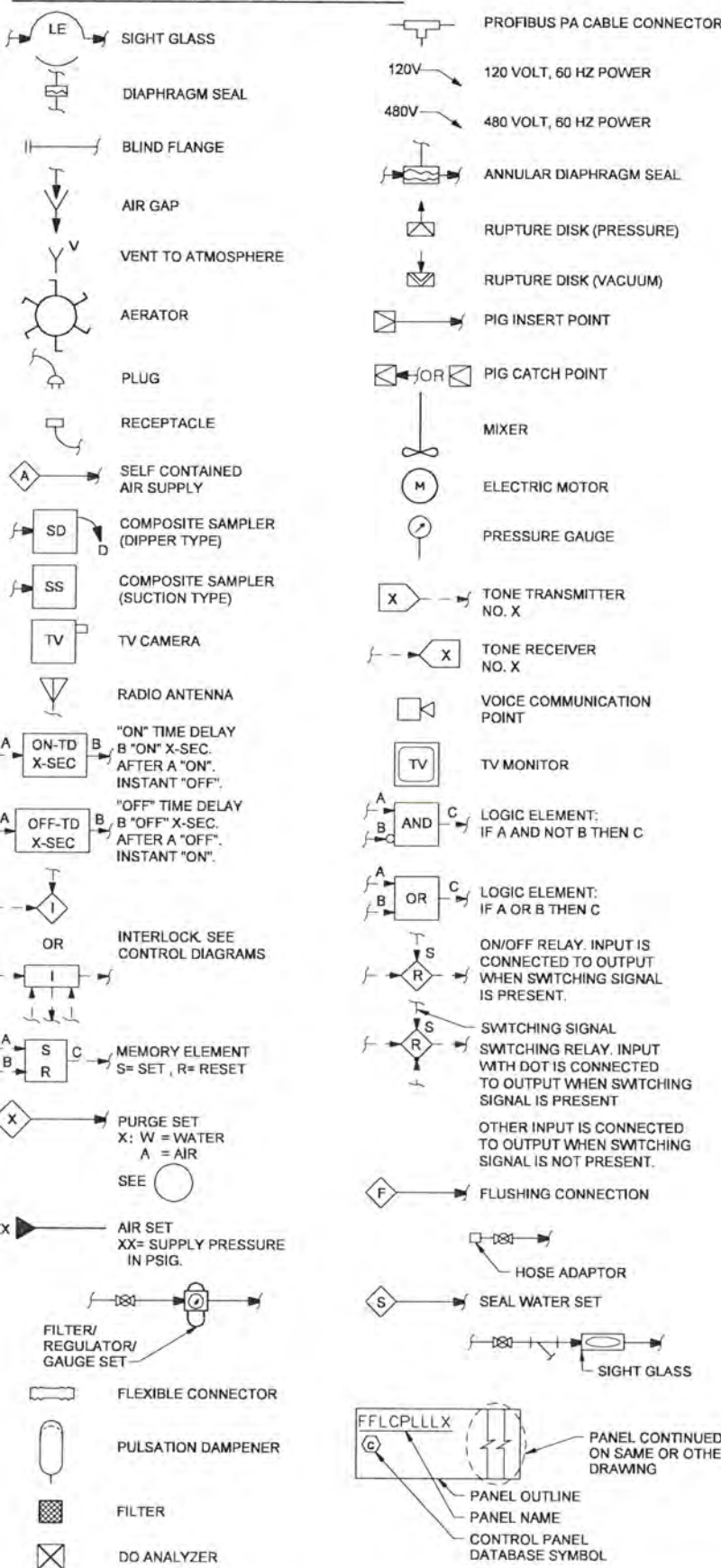
ACTUATOR SYMBOLS



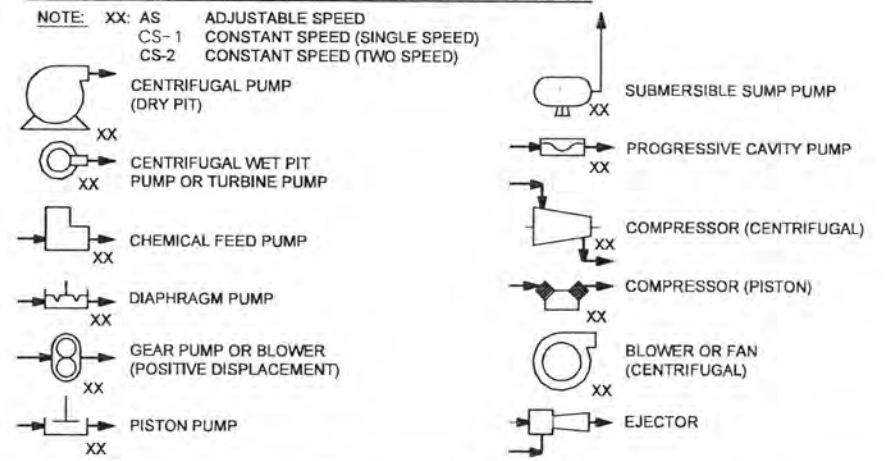
PRIMARY ELEMENT SYMBOLS



MISCELLANEOUS SYMBOLS



PUMP AND COMPRESSOR SYMBOLS



FLOW STREAM IDENTIFICATION

- ACH — ALUMINUM CHLOROHYDRATE
- AHP — AIR, HIGH PRESSURE
- ALP — AIR, LOW PRESSURE
- BWS — BACKWASH SUPPLY
- BWW — BACKWASH WATER
- CA — CITRIC ACID SOLUTION
- CIP — CLEAN-IN-PLACE
- CS — SODIUM HYPOCHLORITE (CHLORINE) SOLUTION
- D — DRAIN, SANITARY
- FD — FEED
- FI — FILTRATE
- FS — FLUORIDE SOLUTION
- FTW — FILTER TO WASTE
- FW — FINISHED WATER
- FW/OF — FINISHED WATER RESERVOIR OVERFLOW
- FPS — FIRE PROTECTION SPRINKLERS
- HW — HOT WATER
- NASF — SODIUM SILICOFLUORIDE
- NG — NATURAL GAS
- PD — PROCESS DRAIN
- RD — ROOF DRAIN
- RHW — RECIRCULATED HOT WATER
- RW — RAW WATER
- S — SANITARY SEWER
- SA — SAMPLE (APPROPRIATE FLOW STREAM)
- SB — SODIUM BISULFITE SOLUTION
- SD — STORM DRAIN
- SH — SODIUM HYDROXIDE SOLUTION
- SN — SUPERNATANT
- SPD — SUMP PUMP DISCHARGE
- TW — TEMPERED WATER
- U — UNDER DRAIN
- V — VENT
- W1 — WATER, POTABLE
- W2 — WATER, POTABLE, BACKFLOW PREVENTED

ELECTRONIC COMPONENT SYMBOLS



RECORD DRAWINGS

Revisions Drawn By DSP Date 8/2006
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DSGN	JD KANYUCH				
DR	PM HAMLIM				
CHK	LL WOOD	8/2006	RECORD DRAWING		
APVD	CW MASSIE	NO.	DATE	REVISION	

VERIFY SCALE	
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

GENERAL
 INSTRUMENTATION AND CONTROL LEGEND
 SHEET 2

SHEET	11
DWG	01-G-11
DATE	APRIL 2004
PROJ	170368

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WIRING DIAGRAM LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	RELAY COIL		INDICATING LIGHT, LETTER INDICATES COLOR: A = AMBER R = RED B = BLUE W = WHITE C = CLEAR Y = YELLOW G = GREEN
	CONTACT, NORMALLY OPEN		INDICATING LIGHT, PUSH-TO-TEST LETTER INDICATES COLOR
	CONTACT, NORMALLY CLOSED		SOLENOID VALVE
	PUSHBUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN		HORN, BEEPER
	PUSHBUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED		BELL
	SELECTOR SWITCH		GROUND
	LIMIT SWITCH		ELAPSED TIME METER
	ANNUNCIATOR RELAY CONTACT FOLLOWS ANNUNCIATOR INPUT		PLC INPUT
	FLOW SWITCH		PLC OUTPUT NORMALLY OPEN
	TEMPERATURE SWITCH		PLC OUTPUT NORMALLY CLOSED
	LEVEL SWITCH		TRANSFORMER, SECONDARY VOLTAGE INDICATED
	PRESSURE SWITCH		CIRCUIT BREAKER
	TIME DELAY SWITCH, NORMALLY CLOSED WITH TIME DELAY CLOSING		FUSE
	TIME DELAY SWITCH, NORMALLY CLOSED WITH TIME DELAY OPENING		FUSE
	TIME DELAY SWITCH, NORMALLY OPEN WITH TIME DELAY CLOSING		LATCHING RELAY
	TIME DELAY SWITCH, NORMALLY OPEN WITH TIME DELAY OPENING		
	TIME DELAY RELAY		

SYMBOL	DESCRIPTION
	TERMINAL BLOCK
	TERMINAL BLOCK, FUSED, SWITCHED
	TERMINAL BLOCK, SWITCHED
	FIELD DEVICE(S)
	DISTRIBUTED CONTROL SYSTEM (DCS)
	CONTROL PANEL DEVICE(S)
	MOTOR CONTROL CENTER DEVICE(S)

ABBREVIATIONS	
ABBREVIATIONS	DESCRIPTION
A	AUTO, AMPS, AMBER
B	BASE
BK	BLACK
BL	BLUE
BR	BROWN
C	CLOSE
CR	CONTROL RELAY
CS	CURRENT SWITCH (4-20mA)
DEC	DECREASE
G	GREEN
H	HAND
INC	INCREASE
L	LOCAL
LOS	LOCKOUT STOP
M	MOTOR RELAY/CONTACT
MAN	MANUAL
N/S/C	NODE / SLOT / CHANNEL
N/S/P	NODE / SLOT / POINT
O	OFF, ON, OPEN
OR	ORANGE
R	RED
REM	REMOTE
S	SLOT
SEC	SECONDS
TDD	TIME DELAY ON DE-ENERGIZATION
TDE	TIME DELAY ON ENERGIZATION
TDR	TIME DELAY RELAY
WH	WHITE
Y	YELLOW
ZS-C	CLOSED END LIMIT SWITCH
ZS-O	OPEN END LIMIT SWITCH

(INSTRUMENT, PANEL, RELAY) TAG NUMBERS

NUMBERS
 FFXLLL U WHERE
 FF = FACILITY/PROCESS NUMBER
 XX = EQUIPMENT OR ISA TAG
 LLL = LOOP NUMBER
 U = UNIT LETTER

SEE LOOP LIST FOR TAG NUMBERS.

ANALOG SYMBOLS	
 FF TT LLL U FIELD 2-WIRE TRANSMITTER	 FF TT LLL U DCS ANALOG I/O
 FF TT LLL U FIELD 4-WIRE TRANSMITTER	 XXXX □ □ □ □ FUSED TERMINAL BLOCK
 FF TT LLL U SIGNAL CONVERSION	 XXXX □ □ □ □ SWITCHING TERMINAL BLOCK
	 XXXX □ □ □ □ GROUNDED TERMINAL BLOCK

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION, THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

DSGN	JD KANYUCH	NO.	6/2006	RECORD DRAWING	BY	DSP	DATE	REVISION	APVD	CW MASSIE
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.										



ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

GENERAL
 INSTRUMENTATION AND CONTROL LEGEND
 SHEET 3

SHEET	12
DWG	01-G-12
DATE	APRIL 2004
PROJ	170368

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TAG FORMATS { PROCESS EQUIP, INSTRUMENT & I/O FORMAT: SIT-UP-ISAX-LOOPa-FUNCTION
NON-PROCESS EQUIPMENT FORMAT: SIT-D-FAC-EQU##

SITE (SIT)	
CODE (SIT)	DESCRIPTION
WW	WASTEWATER TREATMENT PLANT (EXISTING)
WT1	WATER TREATMENT PLANT (EXISTING)
WT2	WATER TREATMENT PLANT (NEW)

FACILITY (FAC)	
CODE (FAC)	DESCRIPTION
BWL	BACKWASH PIPELINE
FLT	FILTRATION BUILDING
ITK	INTAKE PIPELINE
MVA	METERING VAULT, ALBANY
MVM	METERING VAULT, MILLERSBURG
RS1	FINISHED WATER RESERVOIR (#1)
RWP	RAW WATER PUMP STATION
SIT	WTP SITE
TXL	FINISHED WATER TRANSMISSION PIPELINES
WST	RAW WATER TRANSMISSION & BACKWASH WASTE PIPELINES

PROCESS EQUIPMENT (ISAX) - NOTE 1	
CODE (ISAX)	DESCRIPTION
ACCU	AIR COOLED CONDENSING UNIT
AFD	ADJUSTABLE FREQUENCY DRIVE
ASD	ADJUSTABLE SPEED DRIVE (DC-SCR)
ASU	AIR SUPPLY UNIT
BLR	BOILER
BLW	BLOWER
BSN	BASIN
CC	CALIBRATION COLUMN
CLL	CELL
CLS	COALESCER
CON	CONVEYOR
CP	CONTROL PANEL
CPR	COMPRESSOR
CS	CONTROL STATION
CYL	CYLINDER
DMP	DAMPER
EF	EXHAUST FAN
EJ	EJECTOR
FCV	FLOW CONTROL VALVE (W/ ACTUATOR, INTEGRAL CONTROLLER)
FDR	FEEDER
FTR	FILTER
FV	FLOW VALVE (W/ ACTUATOR)
G	GATE
HOP	HOPPER
HTR	HEATER
HV	MANUALLY OPERATED VALVE (W/ ACTUATOR)
INJ	INJECTOR
LCV	LEVEL CONTROL VALVE (W/ ACTUATOR, INTEGRAL CONTROLLER)
LV	LEVEL VALVE (W/ ACTUATOR)
M	MOTOR
MAU	MAKEUP AIR UNIT
MD	MOTORIZED DAMPER
MOD	MODULE
MST	MOISTURE SENSOR
MXR	MIXER
P	PUMP
PCV	PRESSURE CONTROL VALVE (W/ ACTUATOR, INTEGRAL CONTROLLER)
PD	PULSATION DAMPENER
PSV	PRESSURE SAFETY VALVE
PV	PRESSURE VALVE (W/ ACTUATOR)
RCV	RECEIVER
SCR	SCREEN
SF	SUPPLY FAN
STR	STRAINER
SV	SOLENOID VALVE
TCV	TEMPERATURE CONTROL VALVE (W/ ACTUATOR, INTEGRAL CONTROLLER)
TNK	TANK
TSH	THERMAL SENSOR
TV	TEMPERATURE VALVE (W/ ACTUATOR)
UH	UNIT HEATER
V	MANUALLY OPERATED VALVE (NO ACTUATOR)
VNT	VENT

UNIT PROCESS (UP)	
CODE (UP)	DESCRIPTION
10	RAW WATER SUPPLY
11	RAW WATER PUMPING
12	RAW WATER SAND REMOVAL
20	FILTRATION
21	FILTER PKG: RAW WATER
22	FILTER PKG: FILTER / FILTRATE PUMPING
23	FILTER PKG: FILTER BACKWASH & WASTEWATER
24	FILTER PKG: CHEMICAL SYSTEMS
25	FILTER PKG: AIR SYSTEMS
26	FILTER PKG: MISCELLANEOUS SYSTEMS
27	FILTER PKG: WASTE NEUTRALIZATION
30	CHEMICAL SYSTEMS
31	SODIUM HYPOCHLORITE
32	FLUORIDE
33	ALUMINUM CHLOROHYDRATE
34	CITRIC ACID
35	SODIUM BISULFITE
36	SODIUM HYDROXIDE
40	FILTER WASTEWATER / SUPERNATANT RETURN
41	FILTER WASTEWATER / SUPERNATANT RETURN
50	FINISHED WATER RESERVOIR / PLANT SERVICE WATER
70	METERING VAULTS
71	MILLERSBURG METERING VAULT
72	ALBANY METERING VAULT
80	WASTEWATER
90	FACILITY SYSTEM
91	ELECTRICAL, FIRE ALARM & SECURITY SYSTEMS
92	HVAC
93	PERSONNEL SAFETY
94	PLANT CONTROL SYSTEM

NON-PROCESS EQUIPMENT (EQU)	
CODE (EQU)	DESCRIPTION
AN	ACCESS NODE
ANL	ACCESS NODE (LAN)
ANW	ACCESS NODE (WAN)
ATS	AUTOMATIC TRANSFER SWITCH
CP	CONTROL PANEL
CS	CONTROL STATION
DLR	DIALER
ES	ETHERNET SWITCH
FCP	FIRE ALARM CONTROL PANEL
FP	FIBER PATCH PANEL
GAT	GATE
HMI	HUMAN MACHINE INTERFACE
HWCP	HOT WATER CIRCULATION PUMP
LP	LIGHTING PANEL
MCC	MOTOR CONTROL CENTER
P	NON-PROCESS PUMP
PC	PERSONAL COMPUTER
PLC	PROGRAMMABLE LOGIC CONTROLLER
PM	POWER MONITOR
PP	POWER PANEL
PPMM	PATCH PANEL, MULTI-MODE FIBER
PPSM	PATCH PANEL, SINGLE-MODE FIBER
PRT	PRINTER
PS24	24VDC POWER SUPPLY
SVR	SERVER
SWB	SWITCHBOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TWST	TEMPERED WATER STORAGE TANK
TX	TRANSFORMER
UPS	UNINTERRUPTIBLE POWER SUPPLY
WH	WATER HEATER
WKS	WORKSTATION
XCVR	TRANSCIEVER

SOFTWARE FUNCTION (FUNCTION)	
CODE (FUNCTION)	DESCRIPTION
ALARM	ALARM
AUTO	AUTO STATUS
AVAIL	AVAILABLE
AVAILA	SOURCE A AVAILABLE
AVAILB	SOURCE B AVAILABLE
BACKWASH	IN BACKWASH
CALL	CALL TO OPERATE COMMAND
CL2	CHLORINE
CLOSE	CLOSE COMMAND
CLSD	CLOSED STATUS
COND	CONDUCTIVITY
CONNECTA	SOURCE A CONNECTED
CONNECTB	SOURCE B CONNECTED
CURRENT	CURRENT
CURRENTA	PHASE A CURRENT
CURRENTB	PHASE B CURRENT
CURRENTC	PHASE C CURRENT
DO	DISSOLVED OXYGEN
EMERGENCY	EMERGENCY ALARM SYSTEM
ENTRY	ENTRY
ESTOP	EMERGENCY STOP
FAIL	FAILURE
FAULT	FAULT
FL	FLUORIDE
FLOW	FLOWRATE
HIGH	HIGH
HIHI	HIGH-HIGH
INTRUSION	INTRUSION
KW	KILOWATTS
LEVEL	LEVEL
LEVELRTX	LEVEL (RETRANSMITTED)
LOW	LOW
LOLO	LOW-LOW
LOSS	LOSS
MOISTURE	MOISTURE DETECTED
ON	ON STATUS
OPEN	OPEN COMMAND
OPND	OPEN STATUS
ORP	OXYGEN REDUCTION POTENTIAL
OVERTEMP	OVER TEMPERATURE
PART	PARTICLE COUNT
PH	pH
POSNFBK	POSITION FEEDBACK
POSNCTRL	POSITION CONTROL
POSNRTX	POSITION (RE-TRANSMITTED)
PWR FACTR	POWER FACTOR
PRESSURE	PRESSURE
REMOTE	REMOTE STATUS
RESET	RESET
RUN	RUN CONTROL OUTPUT
RUNTIME	RUNTIME
RUNTIME_RST	RUNTIME RESET
SILENCE	SILENCE ALARM
SPDCTRL	SPEED CONTROL OUTPUT
SPDFBK	SPEED FEEDBACK
START	START
STARTFAIL	START FAILURE
STOP	STOP
STOPFAIL	STOP FAILURE
SUPERVISORY	SUPERVISORY
TEMP	TEMPERATURE
TROUBLE	TROUBLE
TURB	TURBIDITY
TVSSFAIL	TRANSIENT VOLTAGE SURGE SUPPRESSOR FAILURE
VOLTAGE	VOLTAGE
VOLTAGEA	PHASE A VOLTAGE
VOLTAGEB	PHASE B VOLTAGE
VOLTAGEC	PHASE C VOLTAGE
WEIGHT	WEIGHT

TAGNAMING SAMPLES

PROCESS EQUIPMENT, INSTRUMENTS, AND PLC I/O													
DESCRIPTION	TAG COMPONENTS				UNIQUE IDENTIFIER (a)	FUNCTION	ANALOG OR DISCRETE	PDB TAG	P&ID TAG	LOOP ID	SOFTWARE TAG	WIRING DIAGRAM	WIRE # SAMPLE (TERMINAL)
	SIT	UP	ISA	LOOP									
RAW WATER PUMP 2 ON	WT2	10	P	0102		ON	D	WT2-10P0102	10P0102	WT2-10-0102	WT2_10_0102_P_ON	WT2-10-0102D	10-0102-01
RAW WATER PUMP 1 AUTO	WT2	10	P	0101		AUTO	D	WT2-10P0101	10P0101	WT2-10-0101	WT2_10_0101_P_AUTO	WT2-10-0101D	10-0101-02
RAW WATER PUMP 1 L-R SWITCH	WT2	10	HS	0101	A		D	WT2-10HS0101A	10HS0101A	WT2-10-0101		WT2-10-0101D	10-0101-06
RAW WATER PUMP 1 S-S SWITCH	WT2	10	HS	0101	B		D	WT2-10HS0101B	10HS0101B	WT2-10-0101		WT2-10-0101D	10-0101-07

NON-PROCESS EQUIPMENT												
DESCRIPTION	TAG COMPONENTS				PDB TAG	P&ID TAG	LOOP ID	SOFTWARE TAG	WIRING DIAGRAM	WIRE # SAMPLE		
	SIT	FAC	EQU	##								
RWPS LIGHTING PANELBOARD	WT2	RWP	LP	01	WT2-RWP-LP01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FILTRATION BLDG MCC (1)	WT2	FLT	MCC	01	WT2-FLT-MCC01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FILTRATION BLDG MCC (2)	WT2	FLT	MCC	02	WT2-FLT-MCC02	N/A	N/A	N/A	N/A	N/A	N/A	N/A

RECORD DRAWINGS

Revisions Drawn By DSP Date 5/2006

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NOTES:

- FOR INSTRUMENTATION, (ISAX) CODES ARE BASED ON THE "INSTRUMENT IDENTIFICATION LETTERS TABLE" (REFERENCE DWG. 01-G-10).

DSGN	JD KANYUCH	5/2006	RECORD DRAWING	NO.	DATE	REVISION	BY	APVD
DR	PM HAMLIN							
CHK	LL WOOD							
APVD	CW MASSIE							

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

GENERAL
INSTRUMENTATION AND CONTROL LEGEND
TAG NAMING STRUCTURE

SHEET	13
DWG	01-G-13
DATE	APRIL 2004
PROJ	170368

ELECTRICAL LEGEND

ABBREVIATIONS

SYMBOL	DESCRIPTION
	CONNECTION POINT TO EQUIPMENT SPECIFIED. FURNISHED AND INSTALLED UNDER OTHER DIVISIONS. RACEWAY, CONDUCTOR AND CONNECTION SPECIFIED IN DIVISION 16. COORDINATE FINAL CONNECTION WITH EQUIPMENT SUPPLIER.
	MAJOR ELECTRICAL COMPONENT OR DEVICE - NAME OR IDENTIFYING SYMBOL AS SHOWN.
	BRANCH CIRCUIT PANELBOARD
	TELEPHONE TERMINAL CABINET
	COMPUTER TERMINAL CABINET
	TERMINAL JUNCTION BOX
	FUSED TERMINAL JUNCTION BOX
	MOTOR, SQUIRREL CAGE INDUCTION, HORSEPOWER INDICATED ON ONE-LINE DIAGRAM, (M) SHOWN ON PLANS
	LUMINAIRE, SEE SCHEDULE
	LUMINAIRE, SEE SCHEDULE
	LUMINAIRE, UNSWITCHED, SEE SCHEDULE
	LUMINAIRE AND POLE, SEE SCHEDULE
	WALL MOUNTED LUMINAIRE, SEE SCHEDULE
	EMERGENCY LIGHTING UNIT
	EXIT LIGHTS, SEE SCHEDULE
	SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE INDICATES SWITCHING. SUBSCRIPT NUMBER AT LUMINAIRE INDICATES CIRCUIT IN PANELBOARD.
	HOME RUN - DESTINATION SHOWN
	EXPOSED CONDUIT AND CONDUCTORS*
	CONCEALED CONDUIT AND CONDUCTORS*
NOTE: * ALL UNMARKED CONDUIT RUNS CONSIST OF TWO NO.12 CONDUCTORS IN CONDUIT. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF NO. 12 CONDUCTORS. CROSSHATCH WITH SUBSCRIPT "G" INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.	
	CIRCUIT CALL OUT, [1" C, 3#8, 1#10G] CONDUIT, CONDUCTOR, AND NUMBER INDICATED. 2-[3" C, 3-350 KCMIL, 1#1/0 EA]; INDICATES TWO CONDUITS, EACH WITH CONDUCTORS INDICATED.
	GROUND TEST WELL
	GROUND ROD
	CROSSHATCHES WITH BAR INDICATE #10 CONDUCTOR. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.
	CONDUIT DOWN
	CONDUIT UP
	CONDUIT, STUBBED AND CAPPED AS SHOWN
	BUS DUCT, SEE SPECIFICATIONS
	CONCRETE ENCASED CONDUIT
	DIRECT BURIED CONDUIT
	GROUND
	UTILITY COMPANY PRIMARY POWER CIRCUITS
	TELEPHONE COMPANY CIRCUITS

SYMBOL	DESCRIPTION
S	SWITCH:
	2- DOUBLE POLE
	3- THREE WAY
	4- FOUR WAY
	CRE- CORROSION RESISTANT
	D- DIMMER
	K- KEY OPERATED
	P- PILOT LIGHT
	WP- WEATHERPROOF
	M- MOTOR RATED TOGGLE SWITCH WITHOUT OVERLOADS
	MS- MANUAL MOTOR STARTER WITH OVERLOADS
	CONVENIENCE RECEPTACLE - DUPLEX UNLESS SPECIFIED OTHERWISE
	WP- WEATHERPROOF TWIST LOCK
	C- CLOCK HANGER
	CRE- CORROSION RESISTANT
	RECEPTACLE - 240V, 1PH, AMPERAGE INDICATED
	RECEPTACLE, SPECIAL PURPOSE - AMPERAGE INDICATED
	DUPLEX CONVENIENCE RECEPTACLE - FLUSH IN FLOOR
	MULTI-OUTLET ASSEMBLY
	CLOCK HANGER CONVENIENCE RECEPTACLE
	TELEPHONE RECEPTACLE (OUTLET BOX ONLY) FLUSH IN FLOOR
	TELEPHONE RECEPTACLE/PHONE
	DATA RECEPTACLE
	TELEPHONE AND DATA RECEPTACLE
	GENERAL CONTROL OR WRING DEVICE. LETTER SYMBOLS OR ABBREVIATIONS INDICATE TYPE OF DEVICE.
	CONTROL STATION, SEE CONTROL DIAGRAMS FOR TYPE.
	CONDUIT FITTING OR JUNCTION BOX
	NONFUSED DISCONNECT SWITCH, SIZE INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.
	FUSED DISCONNECT SWITCH, SIZE INDICATED (60/40, 80 = SWITCH RATING; 40 = FUSE RATING) 3 POLE UNLESS INDICATED OTHERWISE.
	CONTACTOR, MAGNETIC, NEMA SIZE INDICATED.
	LIGHTING CONTACTOR, CURRENT RATING INDICATED FOR NUMBER OF POLES, SEE CONTROL DIAGRAM.
	STARTER MAGNETIC NEMA SIZE INDICATED, SEE CONTROL DIAGRAM.
	COMBINATION (FUSE OR CIRCUIT BREAKER AS INDICATED) MAGNETIC STARTER, NEMA SIZE INDICATED, SEE CONTROL DIAGRAM.
	METERING FACILITIES
	FIRE ALARM STATION, MANUAL
	FIRE ALARM STROBE
	FIRE ALARM HORN
	FIRE ALARM COMBINATION STROBE/HORN
	FIRE ALARM COMBINATION STROBE/SPEAKER, WALL MOUNT
	FIRE ALARM IONIZATION DETECTOR
	AIR DUCT IONIZATION DETECTOR
	FIRE ALARM STATION, AUTOMATIC, HEAT DETECTOR
	EMERGENCY ALARM STATION, MANUAL
	EMERGENCY ALARM COMBINATION STROBE/HORN
	FIRE ALARM, COMBINATION HEAT SMOKE DETECTOR
	EMERGENCY ALARM LEVEL SWITCH

SYMBOL	DESCRIPTION															
	CONTACT - NORMALLY OPEN WITH NEMA SIZE INDICATED AS APPLICABLE															
	CONTACT - NORMALLY CLOSED															
	MAGNETIC STARTER WITH NEMA SIZE INDICATED															
	CIRCUIT BREAKER, MAGNETIC TRIP ONLY, FRAME SIZE SHOWN, 3 POLE UNLESS INDICATED OTHERWISE.															
	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE UNLESS INDICATED OTHERWISE.															
	SWTCH - CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.															
	FUSE - RATING INDICATED															
	DRAWOUT CIRCUIT BREAKER, LOW VOLTAGE															
	DRAWOUT CIRCUIT BREAKER, MEDIUM VOLTAGE															
	DRAWOUT FUSED SWITCH, MEDIUM VOLTAGE															
	SURGE ARRESTER															
	METER WITH SWITCH - SCALE RANGE SHOWN															
	GROUND															
	TRANSFORMER, SECONDARY VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE															
	ISOLATION TRANSFORMER, SECONDARY VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE															
	PICK-UP SETTING															
	TIME CURRENT CHARACTERISTIC															
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN															
	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED															
	NORMALLY CLOSED, TIME DELAY OPENING															
	NORMALLY CLOSED, TIME DELAY CLOSING															
	NORMALLY OPEN, TIME DELAY CLOSED															
	NORMALLY OPEN, TIME DELAY OPEN															
	REMOTE DEVICE															
	SELECTOR SWITCH - MAINTAINED CONTACT - CHART IDENTIFIES OPERATION:															
	<table border="1"> <tr> <th rowspan="2">CKT</th> <th colspan="3">POSITION</th> </tr> <tr> <th>HAND</th> <th>OFF</th> <th>AUTO</th> </tr> <tr> <td>1</td> <td>X</td> <td>0</td> <td>0</td> </tr> <tr> <td>2</td> <td>0</td> <td>0</td> <td>X</td> </tr> </table>	CKT	POSITION			HAND	OFF	AUTO	1	X	0	0	2	0	0	X
CKT	POSITION															
	HAND	OFF	AUTO													
1	X	0	0													
2	0	0	X													
	CURRENT TRANSFORMER, NUMBER INDICATED															
	INDICATING LIGHT, PUSH-TO-TEST, LETTER INDICATES COLOR															
	INDICATING LIGHT - LETTER INDICATES COLOR A - AMBER G - GREEN B - BLUE R - RED C - CLEAR W - WHITE															

ABBREVIATIONS	DESCRIPTION	ABBREVIATIONS	DESCRIPTION
A	AMMETER, AMPERE, AMBER	M	MAGNETIC CONTACTOR COIL
AF	AMPERE FRAME	MCC	MOTOR CONTROL CENTER
AFD	ADJUSTABLE FREQUENCY DRIVE	MD	MOTORIZED DAMPER
AFF	ABOVE FINISHED FLOOR	MH	METAL HALIDE
AFG	ABOVE FINISHED GRADE	MMSS	MICROFILTRATION MEMBRANE SYSTEM SUPPLIER
AS	AMMETER SWITCH, AMPERE SENSOR	MS	MOTOR STARTER
ASU	AIR SUPPLY UNIT	MSC	MANUFACTURER SUPPLIED CABLE
AT	AMPERE TRIP	MT	MOUNT
ATS	AUTOMATIC TRANSFER SWITCH	MTD	MOUNTED
BC	BARE COPPER	N	NEUTRAL
BRKR	BREAKER	NA	NON-AUTOMATIC
C	CONDUIT, CONTACTOR	NC	NORMALLY CLOSED
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CE	CONCRETE ENCASED	NO	NORMALLY OPEN
CKT	CIRCUIT	NP	NAMEPLATE
CPT	CONTROL POWER TRANSFORMER	OC	ON CENTER
CR	CONTROL RELAY	OL	OVERLOAD RELAY
CRE	CORROSION-RESISTANT	PB	PULL BOX, PUSH BUTTON SWITCH
CRS	COATED RIGID STEEL CONDUIT	PC	PHOTOCELL
CS	CONTROL STATION	PH	PHASE
CT	CURRENT TRANSFORMER	PM	POWER METER
DC	DIRECT CURRENT	PMR	PHASE MONITOR RELAY
DIV	DIVISION	PNL	PANEL
E	EMPTY	PS	PRESSURE SWITCH
ELS	EMERGENCY SYSTEM LEVEL SWITCH	PT	POTENTIAL TRANSFORMER
EO	ELECTRIC OPERATOR	PVC	POLYVINYL CHLORIDE CONDUIT OR COATING
EQPT	EQUIPMENT	R	RED
ESS	EMERGENCY SHUTDOWN SWITCH	RCPT	RECEPTACLE
EXST	EXISTING	REQD	REQUIRED
EXST	EXISTING	RS	RIGID STEEL CONDUIT
F	FUSE	SA	SURGE ARRESTOR
FDR	FEEDER	SCR	SILICON CONTROLLED RECTIFIER
FHH	FIBER OPTIC HANDHOLE	SH	SPACE HEATER
FLR	FLOOR	SN, SN	SOLID NEUTRAL
FLUOR	FLUORESCENT	SPD	SPEED
FPP	FIBER PATCH PANEL	SSS	SOLID STATE STARTER
FS	FLOAT SWITCH	SST	STAINLESS STEEL
FTJB	FUSED TERMINAL JUNCTION BOX	SV	SOLENOID VALVE
FVNR	FULL VOLTAGE NON-REVERSING	SW	SWITCH
FVR	FULL VOLTAGE REVERSING	T, T-STAT	THERMOSTAT
G	GREEN, GROUND	TB	TERMINAL BOARD
GALV	GALVANIZED	TC	TIME CLOSE
GB	GROUND BUS	TD	TEMPERATURE DETECTOR RELAY
GCC	GROUNDING CIRCUIT CONDUCTOR	TDI	TIME DELAY INTERVAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TDODE	TIME DELAY ON DE-ENERGIZATION
GFR	GROUND FAULT RELAY	TDOE	TIME DELAY ON ENERGIZATION
GND	GROUND	TDR	TIME DELAY RELAY
H	HIGH SPEED	TI	TIME INTERVAL
HH	HANDHOLE	TJB	TERMINAL JUNCTION BOX
HID	HIGH INTENSITY DISCHARGE	T.O.	TIME OPEN
HPS	HIGH PRESSURE SODIUM	TS	AUTO TRANSFORMER TEMPERATURE SWITCH
HS	HAND SWITCH	TSP	TWISTED SHIELDED PAIR
IC	INTERRUPTING CAPACITY	TST	TWISTED SHIELDED TRIAD
I & C	INSTRUMENTATION AND CONTROL	TTC	TELEPHONE TERMINAL CABINET
INCAND	INCANDESCENT	TYP	TYPICAL
INST	INSTANTANEOUS	UH	UNIT HEATER
J, J-BOX	JUNCTION BOX	UON	UNLESS OTHERWISE NOTED
K	KEY INTERLOCK	UVR	UNDER VOLTAGE RELAY
L	LIGHTING CONTACTOR, LOW SPEED	V	VOLTMETER, VOLT
LCP	LOCAL CONTROL PANEL	VS	VOLTMETER SWITCH
LR	LATCHING RELAY	W	WATT
LS	LIMIT SWITCH	WP	WEATHERPROOF
LTF	LIQUID TIGHT FLEX CONDUIT	XFDR	TRANSPODER
LTS	LIGHTS	XFMR	TRANSFORMER

NOTES:
1. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS DRAWING AND NOT ON THE DRAWINGS.
2. FOR ADDITIONAL ABBREVIATIONS OF OTHER DIVISIONS (HVAC, MECHANICAL, AND STRUCTURAL/ARCHITECTURAL), SEE OTHER LEGENDS.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	RG COLLETTE	NO.		DATE	6/2006
DR	MS MCNEELY	REVISION		BY	JMD
CHK	JF TURNER			APVD	RCF
APVD	CW MASSIE				

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

GENERAL
ELECTRICAL LEGEND AND ABBREVIATIONS

SHEET	14
DWG	01-G-14
DATE	APRIL 2004
PROJ	170368

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Albany-Millersburg Joint WTP
Process Design Data Summary

Process System	Initial Phase	Initial Phase, Buildout	Ultimate	Waste Neutralization	Vanton	Vanton	Vanton	Other Chemical Systems
Nominal Plant Capacity, mgd				Waste Neutralization Pump Type	2	2	2	Sodium Hypochlorite (12.5%) Disinfection
Winter	12.0	16.2	20.3	Waste Neutralization Pump Cap., gpm	250	250	250	Winter/Summer Ave Dose, mg/L Cl2
Summer	16.5	22.2	26.0	Motor Horsepower, hp	7.5	7.5	7.5	Winter/Summer Max Dose, mg/L Cl2
				Neutralization Basin Capacity, gals	18,000	18,000	18,000	Ave Day Winter Usage, ppd Cl2
Intake				Backwash Water Handling				Ave Day Summer Usage, ppd Cl2
Number Screens	8	8	8	Waste Volume/BW, gals	4,560	5,702	5,702	Max Day Winter Usage, ppd Cl2
Capacity ea., gpm	2,300	2,300	2,300	Waste Volume/Day, gals	1,005,888	1,353,377	1,585,036	Max Day Summer Usage, ppd Cl2
Total Intake Capacity, gpm	18,400	18,400	18,400	Equalized Flow, gpm	699	940	1,101	Ave Day Winter Usage, gals 12.5% Cl2
Screen Cleaning				Backwash Settling Basins				Ave Day Summer Usage, gals 12.5% Cl2
Air Burst Compressors				Number	2	2	2	30-day Storage Capacity, gals
Type	Two-Stage	Two-Stage	Two-Stage	Design Detention Time ea., minutes	332	247	211	Number Tanks
Number	1	1	1	Total Volume ea., gals	116,000	116,000	116,000	Tank Capacity ea., gals
Minimum Capacity, SCFM @ 150 psi	40	40	40	Supernatant Pumps				Sodium Hypochlorite Metering
Motor Horsepower, hp	7.5	7.5	7.5	Pump Type	Submersible	Submersible	Submersible	Number Pumps
Test Air Receiver Tank, gals	1000	1000	1000	Drives	Constant Speed	Constant Speed	Constant Speed	Max Capacity ea., gph
				Number	2	2	2	Min Capacity ea., gph
Raw Water Pumping				Capacity, gpm	1,000	1,000	1,000	
Type	Vert Turbine	Vert Turbine	Vert Turbine	Pump TDH, ft	50	50	50	Sodium Silicofluoride (98%)
Number	4	4	5	Motor Horsepower, hp	20	20	20	Winter Dose, mg/L F
Max Capacity ea. Pump, gpm	4,500	4,500	4,500	Plant Utilities				Summer Dose, mg/L F
Total Dynamic Head, ft	220	220	220	Plant Service Water				Max Day Winter Usage, ppd Na2SIF6
Pump Bhp	300	300	300	Pump Type	Horiz Centrifugal	Horiz Centrifugal	Horiz Centrifugal	Max Day Summer Usage, ppd NaSIF6
Motor Horsepower, hp	350	350	350	Number	2	2	2	Sodium Silicofluoride Storage
Drive	VFDs	VFDs	VFDs	Capacity, gpm	160	160	160	30-day Storage Capacity, lbs
Firm Station Capacity, gpm	14,200	14,200	18,000	Pump TDH, ft	200	200	200	Sodium Silicofluoride Metering
				Motor Horsepower, hp	15	15	15	Dry Feeder Max Capacity, ppd
Raw Water Sand Removal				Sanitary Sewer Grinder Pump System				Dry Feeder Capacity, cfd
Sand Pumps, Type	Horiz Centrifugal	Horiz Centrifugal	Horiz Centrifugal	Pump Type	Submersible	Submersible	Submersible	Hopper Capacity, 7 day volume, cf
Number	2	2	2	Number	2	2	2	
Capacity, gpm	220	220	220	Capacity, gpm	15	15	15	Aluminum Chlorohydrate (50%) BWW Recycle
Motor Horsepower, hp	15	15	15	Motor Horsepower, hp	1	1	1	Assumed BWW Flow, gpm
Sand Classifier, hp	0.5	0.5	0.5	Fire Pumping System				Solution Strength, by wt
				Fire Pump	Horiz Centrifugal	Horiz Centrifugal	Horiz Centrifugal	Specific Gravity
Pre-filter Strainers				Drive	Diesel Engine	Diesel Engine	Diesel Engine	Average Dose, mg/L
Type	Auto Backwashing	Auto Backwashing	Auto Backwashing	Number	1	1	1	Instantaneous Usage, ppd
Number	2	2	2	Capacity, gpm	500	500	500	Metering Capacity, gph
Size Connections, inches	24	24	24	Motor Horsepower, hp	25	25	25	30-Day Storage, gals
Capacity ea., gpm	18,000	18,000	18,000	Jockey Pump	Vert Centrifugal	Vert Centrifugal	Vert Centrifugal	
				Number	1	1	1	
Membranes				Capacity, gpm	5	5	5	
System Description	CMF-S	CMF-S	CMF-S	CIP Chemical Systems				
Model/Configuration	4x648S10Vva	4x648S10Vva	4x648S10Vva	Sodium Hypochlorite (12.5%) CEB				
Membrane Type	PVdF	PVdF	PVdF	CEB Frequency, per day ea. Cell	1	1	1	
Number of Cells	4	4	5	CEB Chlorine Conc., ppm	100	100	100	
Installed Racks, #/Cell	15	18	18	Usage, gals 12.5% hypo/Cell/CEB	3.4	3.4	3.4	
Installed Modules/Rack	32	36	36	Total Usage/day, gals	13.6	13.6	17	
Total Modules/Cell	480	648	648	Total Usage/yr, gals	4,964	4,964	6,205	
Total Modules	1920	2592	3240	Sodium Hypochlorite (12.5%) CIP				
Membrane Filter Area/Module, sf	275.6	275.6	275.6	CIP Frequency, #/year/Cell	8	8	8	
Total Membrane Filter Area, sf	529,152	714,355	892,944	CIP Chlorine Conc., ppm	500	500	500	
Summer Flux, gpd/sf	31.2	31.1	29.1	Cell Vol, gals	4,416	4,416	4,416	
Winter Flux, gpd/sf	22.7	22.7	22.7	Usage, Sodium Hypochlorite/CIP/Cell, lbs	18	18	18	
				Usage, 12.5% Hypo/CIP/Cell, gals	16	16	16	
Filtrate Pumps				Total Usage/Year, gals 50% soln	518	518	648	
Type	Horiz Centrifugal	Horiz Centrifugal	Horiz Centrifugal	Citric Acid (50%)				
Number	4	4	5	CIP Frequency, #/year/Cell	8	8	8	
Design Capacity, gpm	4315	4315	4315	Citric Dose, ppm	20,000	20,000	20,000	
Motor Horsepower, hp	125	125	125	Cell Vol, gals	4,416	4,416	4,416	
Drive	VFDs	VFDs	VFDs	Usage, Citric Acid/CIP/Cell, lbs	751	751	751	
				Usage, 50% CA Soln/CIP/Cell, gals	155	155	155	
Air Compressors				Total Usage/Year, gals 50% soln	4,960	4,960	6,200	
Type	Rotary Screw	Rotary Screw	Rotary Screw	CIP Neutralization Chemical Systems				
Number	2	2	2	Sodium Hydroxide (25%)				
Minimum Capacity, SCFM	37	37	37	CIP Frequency, #/year/Cell	8	8	8	
Motor Horsepower, hp	15	15	15	Usage/CIP, gals	29	29	29	
Test Air Receiver Tank, gals	1600	1600	1600	Usage/CIP Clean Cycle, gals	116	116	145	
Control Air Receiver Tank, gals	400	400	400	Total Annual Usage, gals	928	928	1,160	
				# 400-gal totes/yr	2.3	2.3	2.9	
Air Blowers				Sodium Bisulfite (38%) CIP				
Type	Multi-Stage Centrif.	Multi-Stage Centrif.	Multi-Stage Centrif.	CIP Frequency, #/year/Cell	8	8	8	
Number	3	3	3	Usage/CIP, gals	7.3	7.3	7.3	
Capacity, each, SCFM	2,033	TBD	TBD	Total Usage/CIP Clean Cycle, gals	29	29	37	
Horsepower, hp	60	TBD	TBD	Annual CIP Usage, gals	234	234	292	
Backwash Air Flow, SCFM	3,390	4,577	4,577	Sodium Bisulfite (38%) Maintenance Wash				
				Usage, gals/maint wash/basin/day	1.5	1.5	1.5	
Backwash Supply System				Annual MW Usage, gals	2,182	2,182	2,730	
Pump Type	Horiz Centrifugal	Horiz Centrifugal	Horiz Centrifugal					
Number	2	2	2					
Max Design Capacity	6,420	6,420	6,420					
Motor Horsepower, hp	100	100	100					
Drive	VFDs	VFDs	VFDs					
Required Backwash Flow, gpm	4,756	6,421	6,421					
Clean-In-Place (CIP) Systems								
CIP Transfer Pump								
Pump Type	Horiz Centrifugal	Horiz Centrifugal	Horiz Centrifugal					
Number	1	1	1					
Max Design Capacity, gpm	1,000	1,000	1,000					
Motor Horsepower, hp	15	15	15					
Drive	Constant Speed	Constant Speed	Constant Speed					
CIP Tank								
Usable Capacity, gals	7,000	7,000	7,000					

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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DSGN	TP ENGLESON
DR	WB LOVE
CHK	CW MASSIE
APVD	CW MASSIE

NO.	DATE	REVISION
	6/2006	RECORD DRAWING

BY	JMD
APVD	RCF

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ALBANY-MILLERSBURG	GENERAL
JINN COUNTY, OREGON	DESIGN DATA SUMMARY

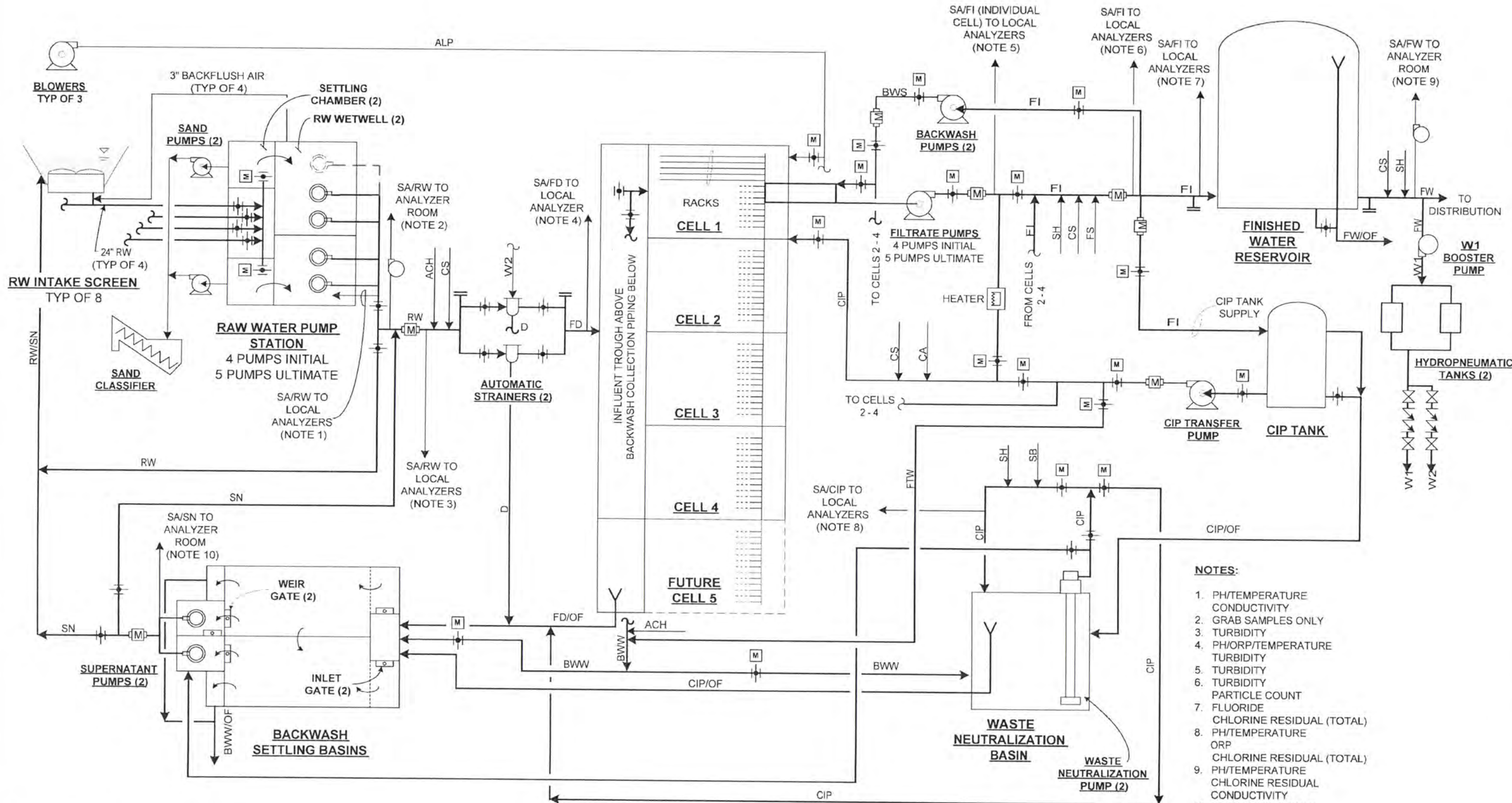
SHEET	16
DWG	01-G-16
DATE	APRIL 2004
PROJ	170368

FILENAME:	01ng016d_170368.dgn
PLOT DATE:	26-AUG-2003
PLOT TIME:	15:56:43

CH2MHILL

ALBANY-MILLERSBURG	GENERAL
JINN COUNTY, OREGON	DESIGN DATA SUMMARY

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- NOTES:**
1. PH/TEMPERATURE CONDUCTIVITY
 2. GRAB SAMPLES ONLY
 3. TURBIDITY
 4. PH/ORP/TEMPERATURE TURBIDITY
 5. TURBIDITY
 6. TURBIDITY PARTICLE COUNT
 7. FLUORIDE CHLORINE RESIDUAL (TOTAL)
 8. PH/TEMPERATURE ORP CHLORINE RESIDUAL (TOTAL)
 9. PH/TEMPERATURE CHLORINE RESIDUAL CONDUCTIVITY
 10. GRAB SAMPLE ONLY

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	EN LOUIE						
DR	EN LOUIE						
CHK	TP ENGLESON	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

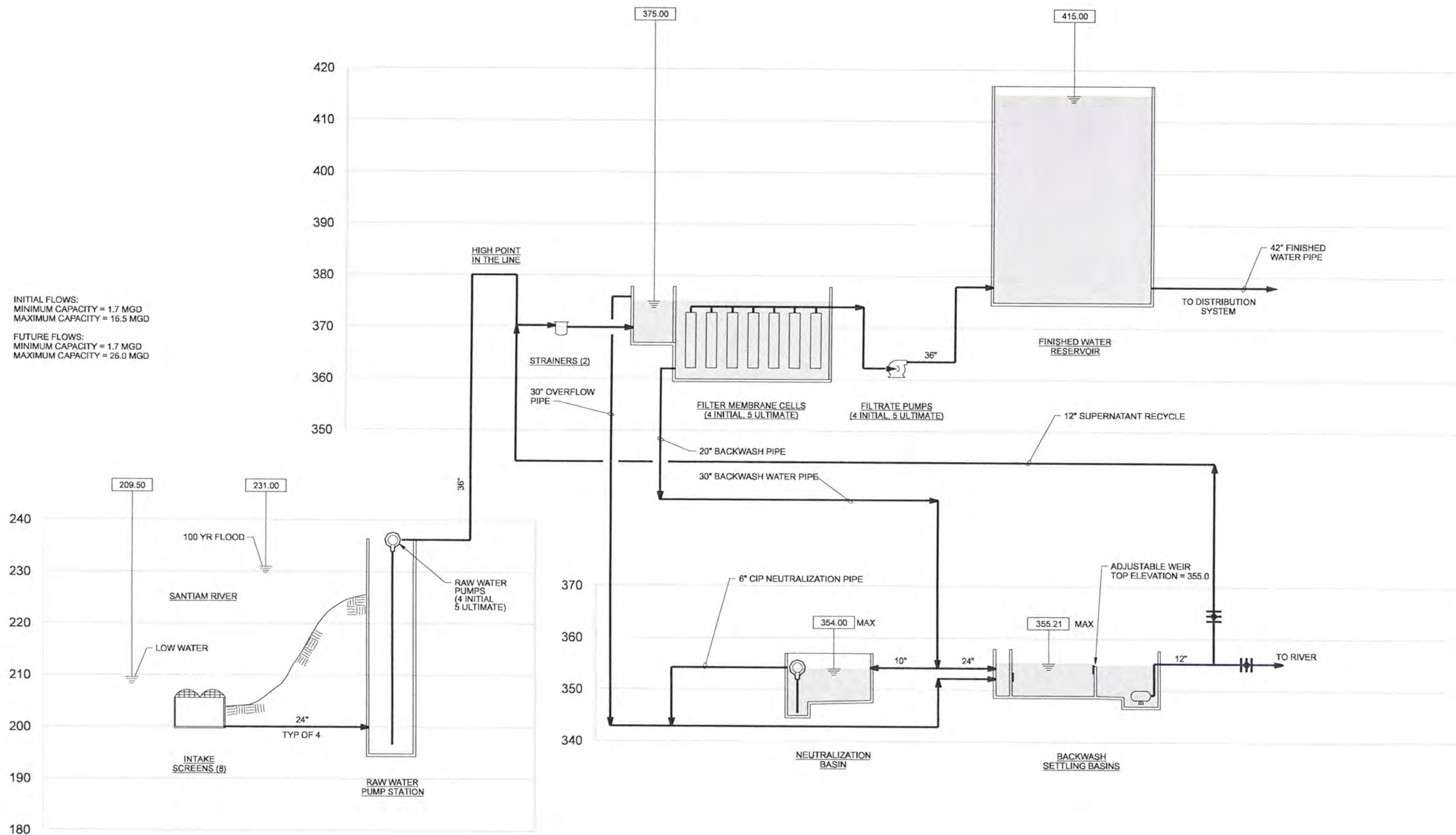
GENERAL
 PROCESS FLOW DIAGRAM

SHEET	17
DWG	01-G-17
DATE	APRIL 2004
PROJ	170368

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INITIAL FLOWS:
 MINIMUM CAPACITY = 1.7 MGD
 MAXIMUM CAPACITY = 16.5 MGD

FUTURE FLOWS:
 MINIMUM CAPACITY = 1.7 MGD
 MAXIMUM CAPACITY = 26.0 MGD



RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	EN LOUIE								
DR	ER BROWN								
CHK	TP ENGLESON	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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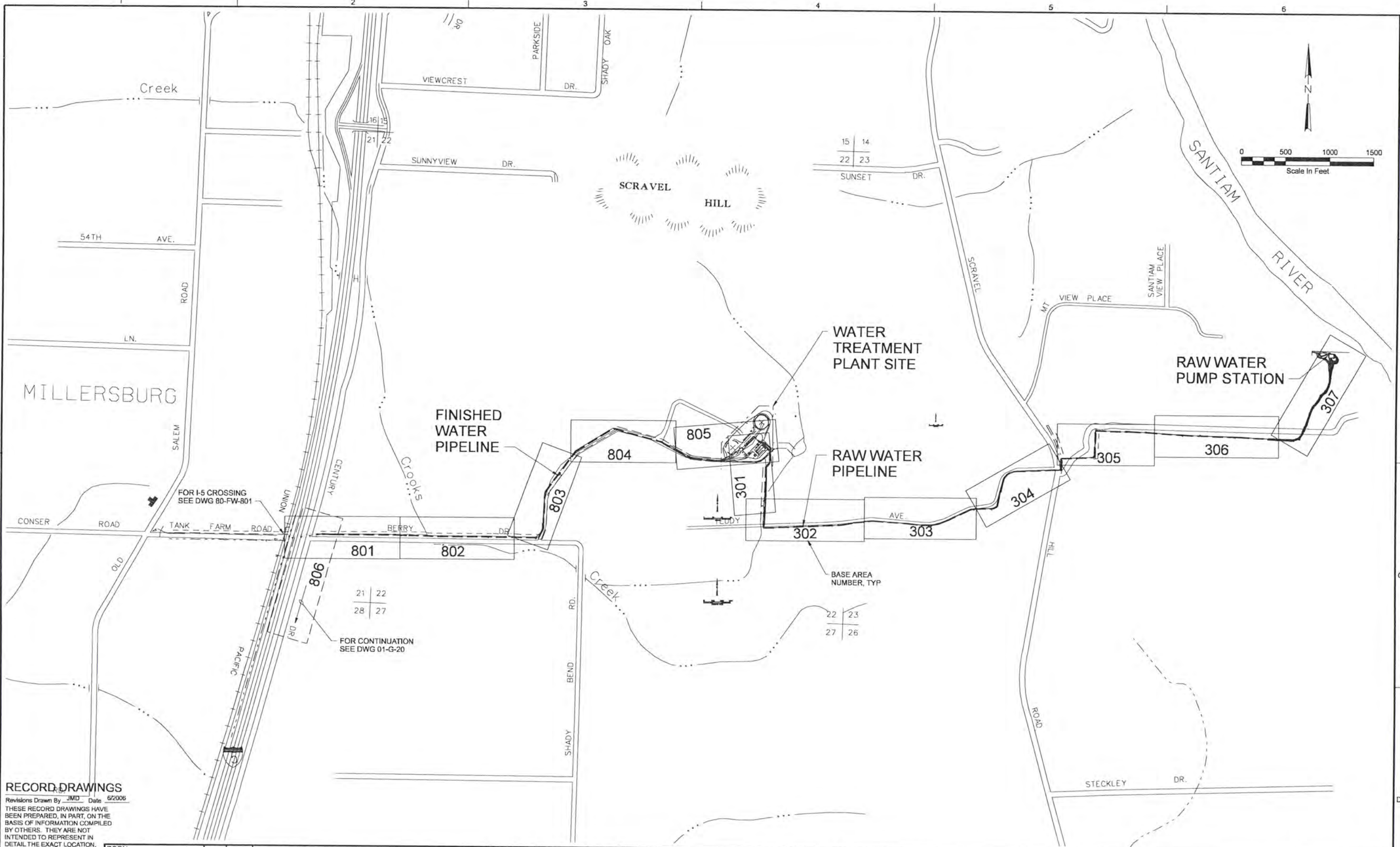


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

GENERAL
 HYDRAULIC PROFILE

SHEET	18
DWG	01-G-18
DATE	APRIL 2004
PROJ	170368

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DSGN	GG SILBERNAGEL						
DR	LG McCALL						
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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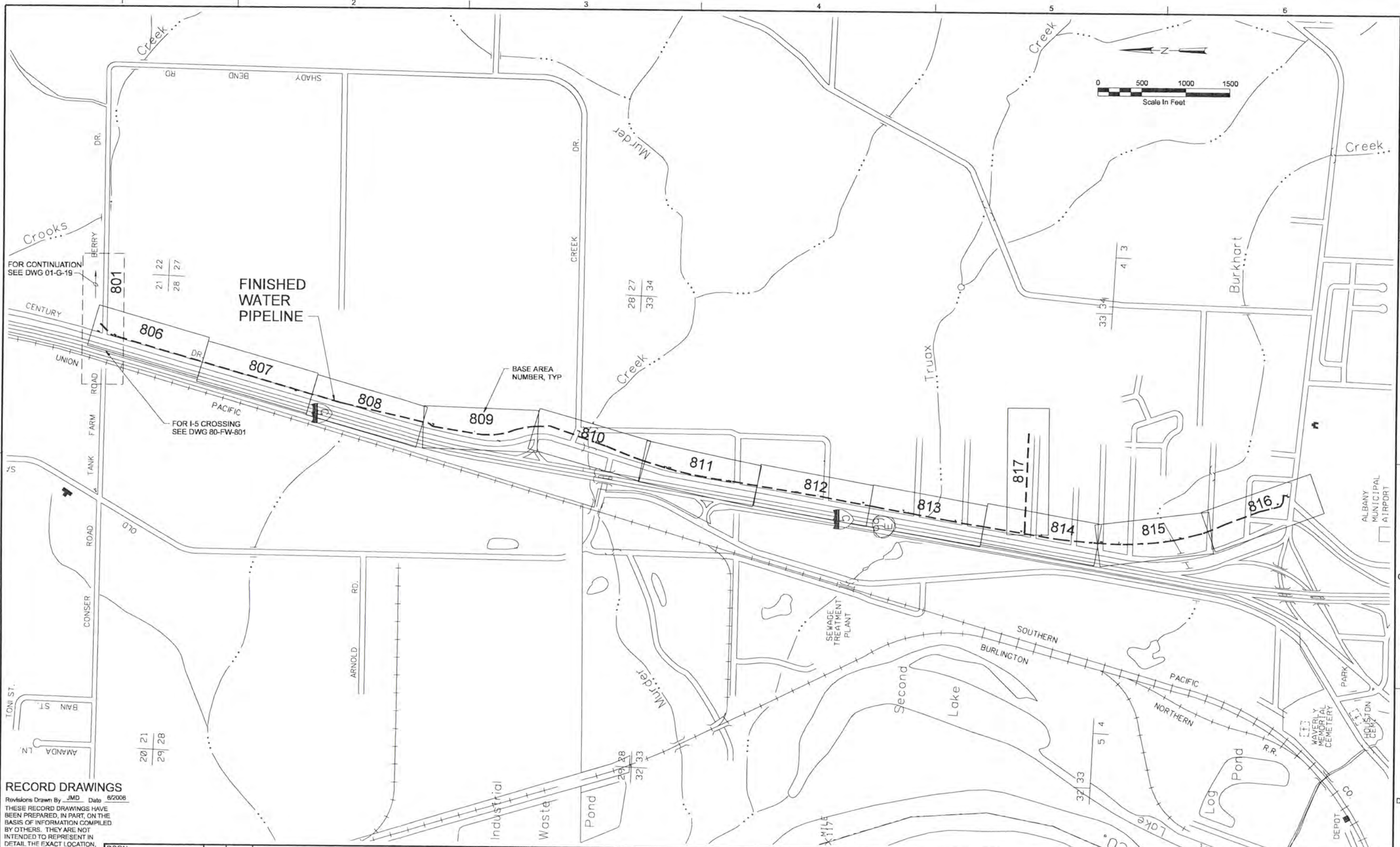


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

GENERAL
 RAW AND FINISHED WATER PIPELINES
 KEY PLAN

SHEET	19
DWG	01-G-19
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

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DSGN	JE BARNHURST						
DR	LG McCALL						
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

VERIFY SCALE
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

GENERAL
 ALBANY FINISHED WATER PIPELINE
 KEY PLAN

SHEET	20
DWG	01-G-20
DATE	APRIL 2004
PROJ	170368

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RWP-CP01
RAW WATER PUMP STATION
PLC CONTROL PANEL

RWP-PLC01

10P1004 OPEN 10P1003 OPEN 10P1002 OPEN 10P1001 OPEN 10P2004 OPND 10P2003 CLSD 10P2002 CLSD 10P2001 OPND 10P2000 CLSD 10P2000 CLSD 10P2001 OPND 10P2002 CLSD 10P2003 CLSD 10P2004 OPND 10P3004 REMOTE 10P3003 REMOTE 10P3002 REMOTE 10P3001 REMOTE 10P4001 FAIL 10P4002 FAIL

"SYSTEM FAIL"

10LCP0201
RAW WATER INTAKE SCREEN SYSTEM
CONTROL PANEL

480V

"POWER"

(2)

(2)

(2)

(2)

AHP

10PSH
0501

10PSL
0501

CS-1

10M0301
RAW WATER INTAKE
SCREEN SYSTEM AIR
COMPRESSOR

AHP

105 08-4-03
RAW WATER SAND REMOVAL

10ZS
0604

10ZS
0603

10ZS
0602

10ZS
0601

10FV
0604

10FV
0603

10FV
0602

10FV
0601

AHP

10RCV0401
RAW WATER INTAKE
SCREEN SYSTEM AIR
RECEIVER TANK

*
RAW WATER INTAKE
SCREEN SYSTEM

SANTIAM RIVER
RAW WATER INTAKE

10SCR1004B
RAW WATER INTAKE
SCREEN 4B

10SCR1004A
RAW WATER INTAKE
SCREEN 4A

10SCR1003B
RAW WATER INTAKE
SCREEN 3B

10SCR1003A
RAW WATER INTAKE
SCREEN 3A

10SCR1002B
RAW WATER INTAKE
SCREEN 2B

10SCR1002A
RAW WATER INTAKE
SCREEN 2A

10SCR1001B
RAW WATER INTAKE
SCREEN 1B

10SCR1001A
RAW WATER INTAKE
SCREEN 1A

RW

101 08-4-02
RAW WATER PUMPING

RW

102 08-4-02
RAW WATER PUMPING

RW

103 08-4-02
RAW WATER PUMPING

RW

104 08-4-02
RAW WATER PUMPING

NOTE:
ALL EQUIPMENT TAG NAMES AND
INSTRUMENTS TAGS HAVE A "WT2-"
PREFIX, NOT SHOWN.

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN J.L. MCWADE
JD KANYUCH
DR DS PARKER
CHK LL WOOD
APVD CW MASSIE

NO. DATE

6/2006

RECORD DRAWING

REVISION

BY APVD

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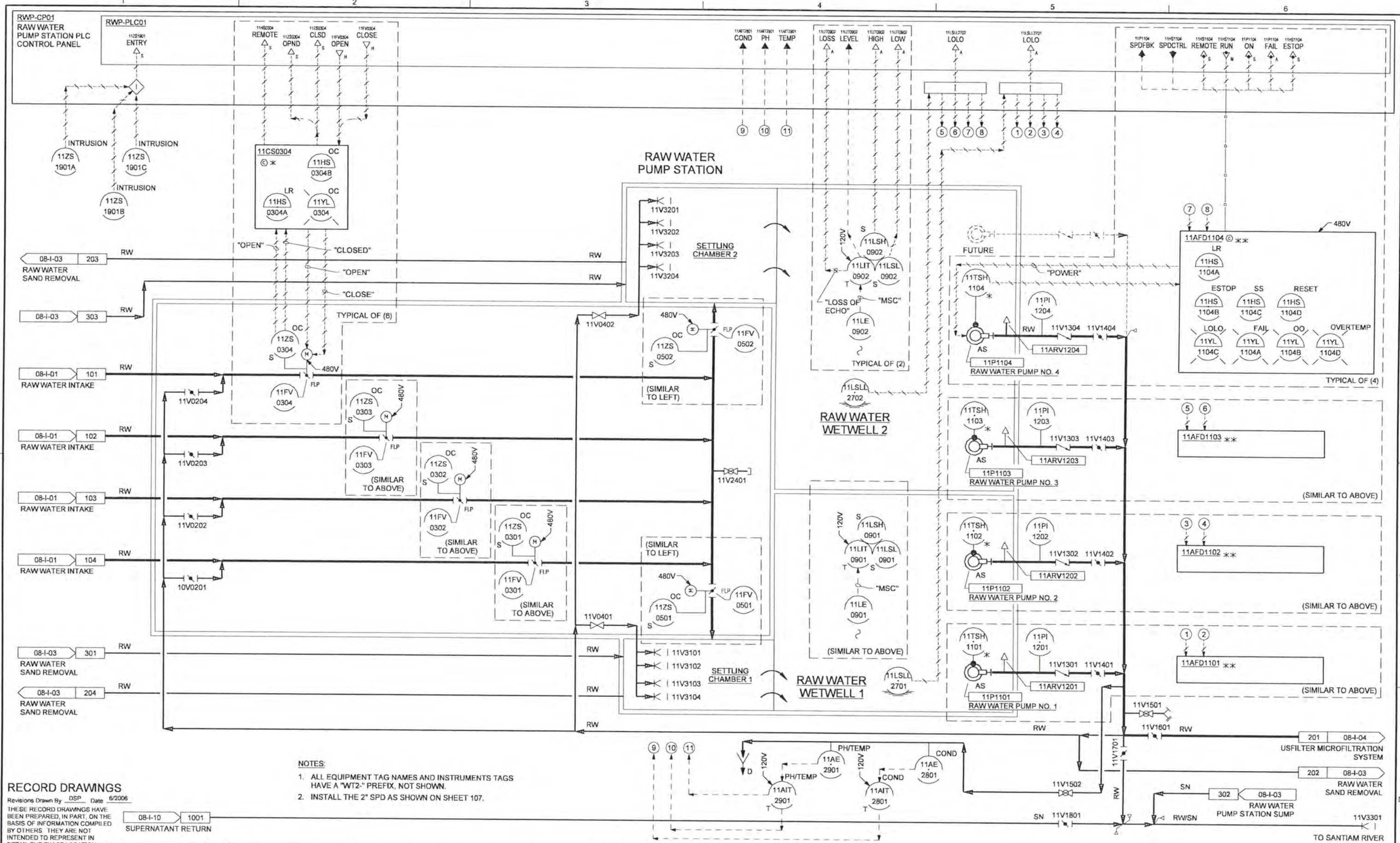
CH2MHILL

ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

P&ID
INSTRUMENTATION AND CONTROL
RAW WATER INTAKE

SHEET 21
DWG 08-4-01
DATE APRIL 2004
PROJ 170368

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- NOTES:**
1. ALL EQUIPMENT TAG NAMES AND INSTRUMENTS TAGS HAVE A "WT2-" PREFIX, NOT SHOWN.
 2. INSTALL THE 2" SPD AS SHOWN ON SHEET 107.

RECORD DRAWINGS

Revisions Drawn By DSP Date 5/2006
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08-I-10 1001
 SUPERNATANT RETURN

DSGN	JL MCWADE
DR	DS PARKER
CHK	LL WOOD
APVD	CW MASSIE

NO. DATE

RECORD DRAWING 5/2006

REVISION BY APVD

VERIFY SCALE
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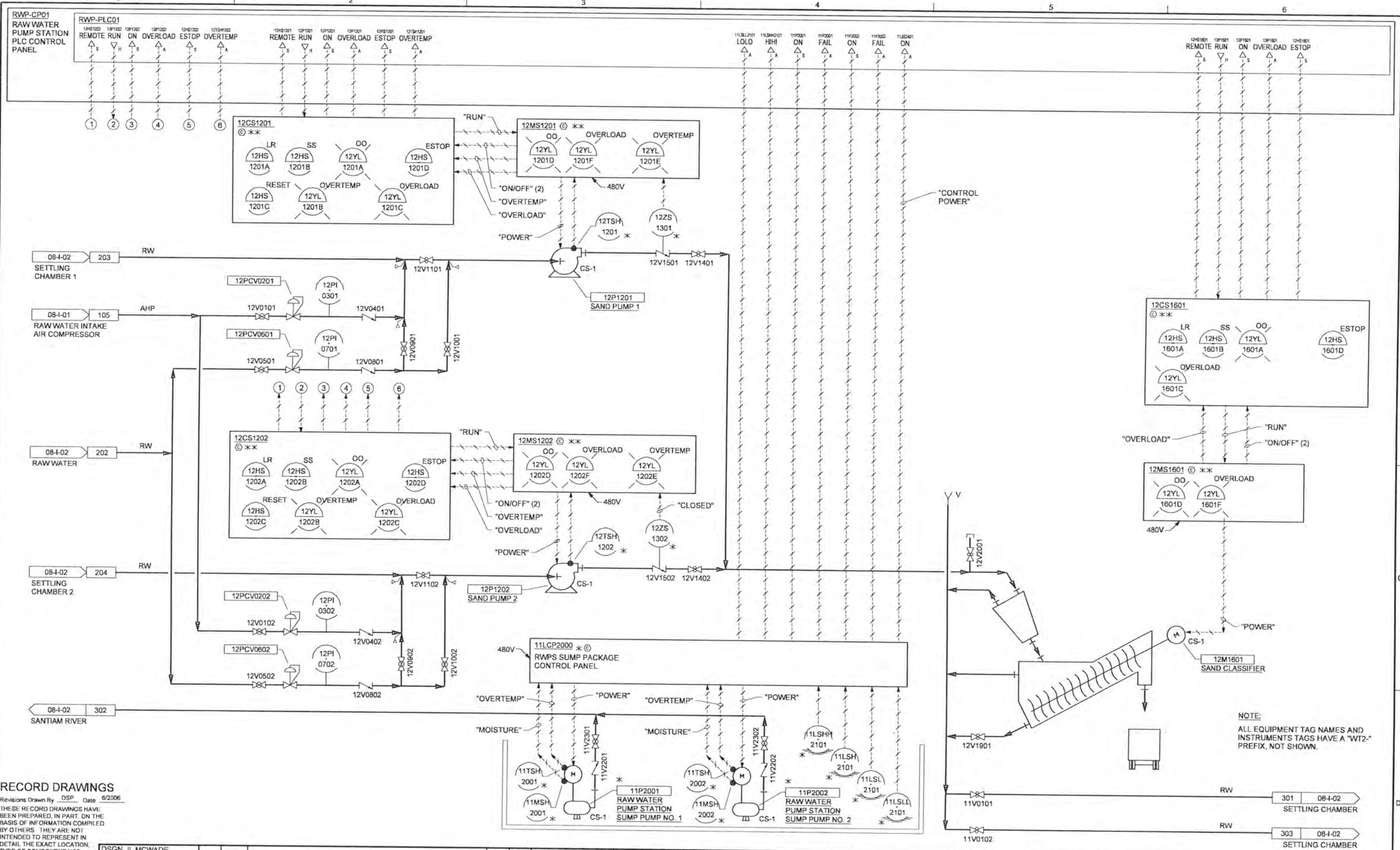


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

P&ID
 INSTRUMENTATION AND CONTROL
 RAW WATER PUMPING

SHEET	22
DWG	08-I-02
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	JL MCWADE				
DR	DS PARKER				
CHK	LL WOOD	6/2006	RECORD DRAWING		
APVD	CW MASSIE	NO.	DATE	REVISION	BY

VERIFY SCALE
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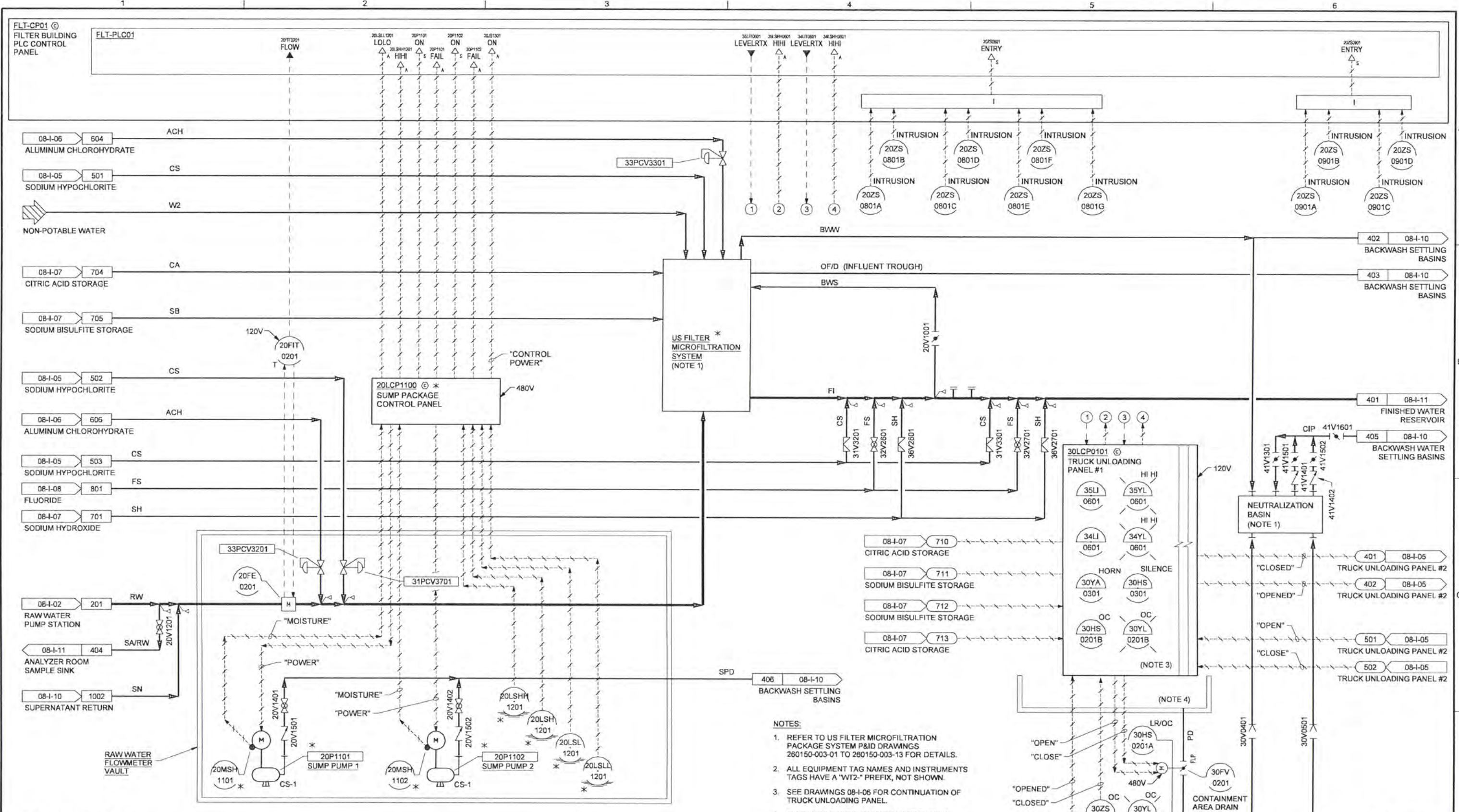


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

P&ID
 INSTRUMENTATION AND CONTROL
 RAW WATER SAND REMOVAL

SHEET	23
DWG	08-1-03
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006
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08-1-07 706
 CHEMICAL CONTAINMENT

DSGN	TP ENGLESON				
DR	DS PARKER				
CHK	LL WOOD	6/2006	RECORD DRAWING	DSB	APVD
APVD	CW MASSIE	NO.	DATE	REVISION	BY

VERIFY SCALE	
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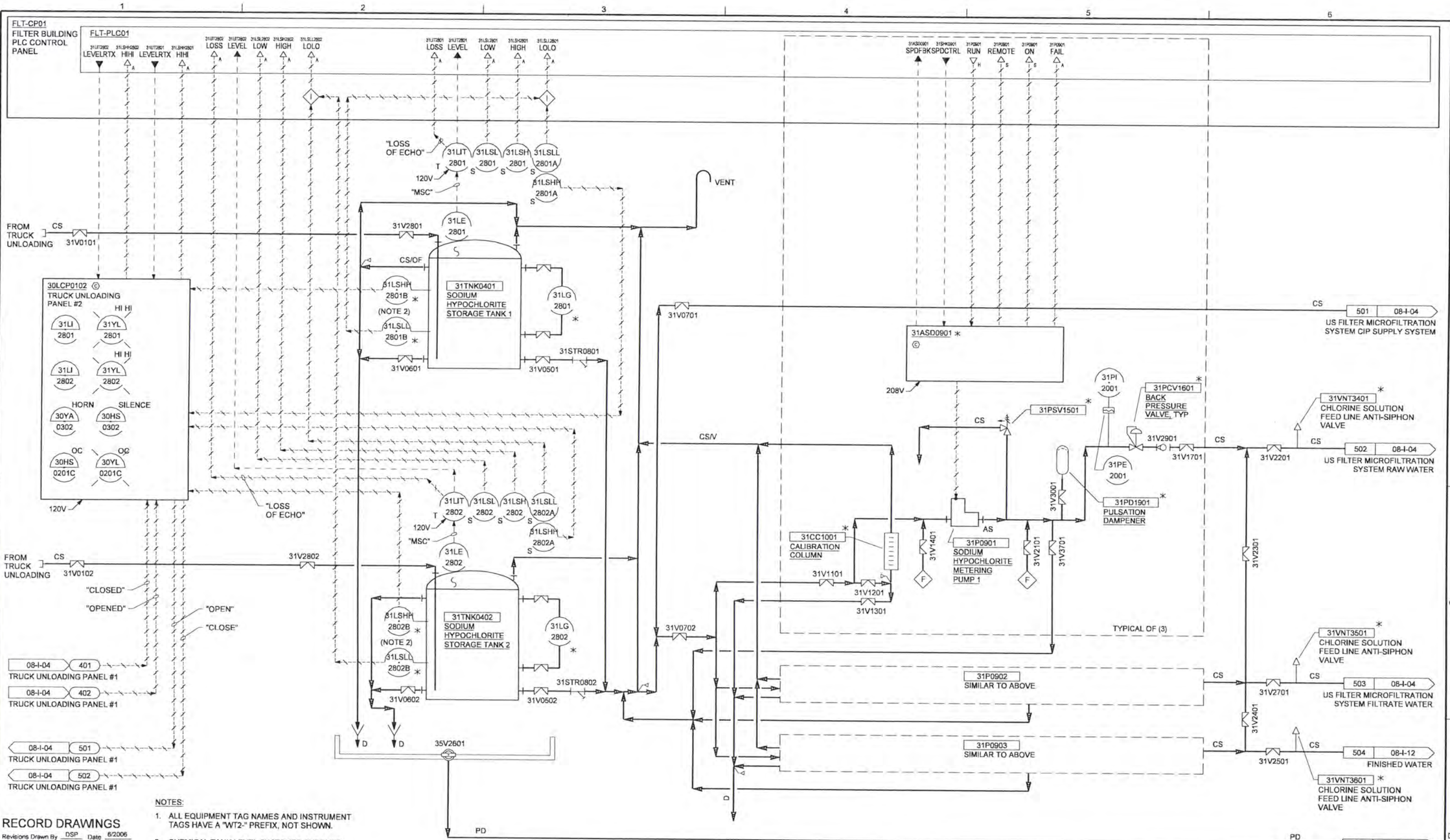
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

P&ID
 INSTRUMENTATION AND CONTROL
 US FILTER
 MICROFILTRATION SYSTEM

SHEET	24
DWG	08-1-04
DATE	APRIL 2004
PROJ	170368

- NOTES:**
- REFER TO US FILTER MICROFILTRATION PACKAGE SYSTEM P&ID DRAWINGS 260150-003-01 TO 260150-003-13 FOR DETAILS.
 - ALL EQUIPMENT TAG NAMES AND INSTRUMENTS TAGS HAVE A "WT2-" PREFIX, NOT SHOWN.
 - SEE DRAWINGS 08-1-06 FOR CONTINUATION OF TRUCK UNLOADING PANEL.
 - TRUCK UNLOADING STATION CONTAINMENT.
 - CHEMICAL TANK LEVEL SWITCHES SUPPLIED BY US FILTER.

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- NOTES:**
- ALL EQUIPMENT TAG NAMES AND INSTRUMENT TAGS HAVE A "WT2-" PREFIX, NOT SHOWN.
 - CHEMICAL TANK LEVEL SWITCHES SUPPLIED BY US FILTER.

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006
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DSGN	EN LOUIE				
DR	DS PARKER				
CHK	LL WOOD				
APVD	CW MASSIE				

NO.	DATE	REVISION	BY	APVD
	6/2006	RECORD DRAWING	DSB	BSK

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

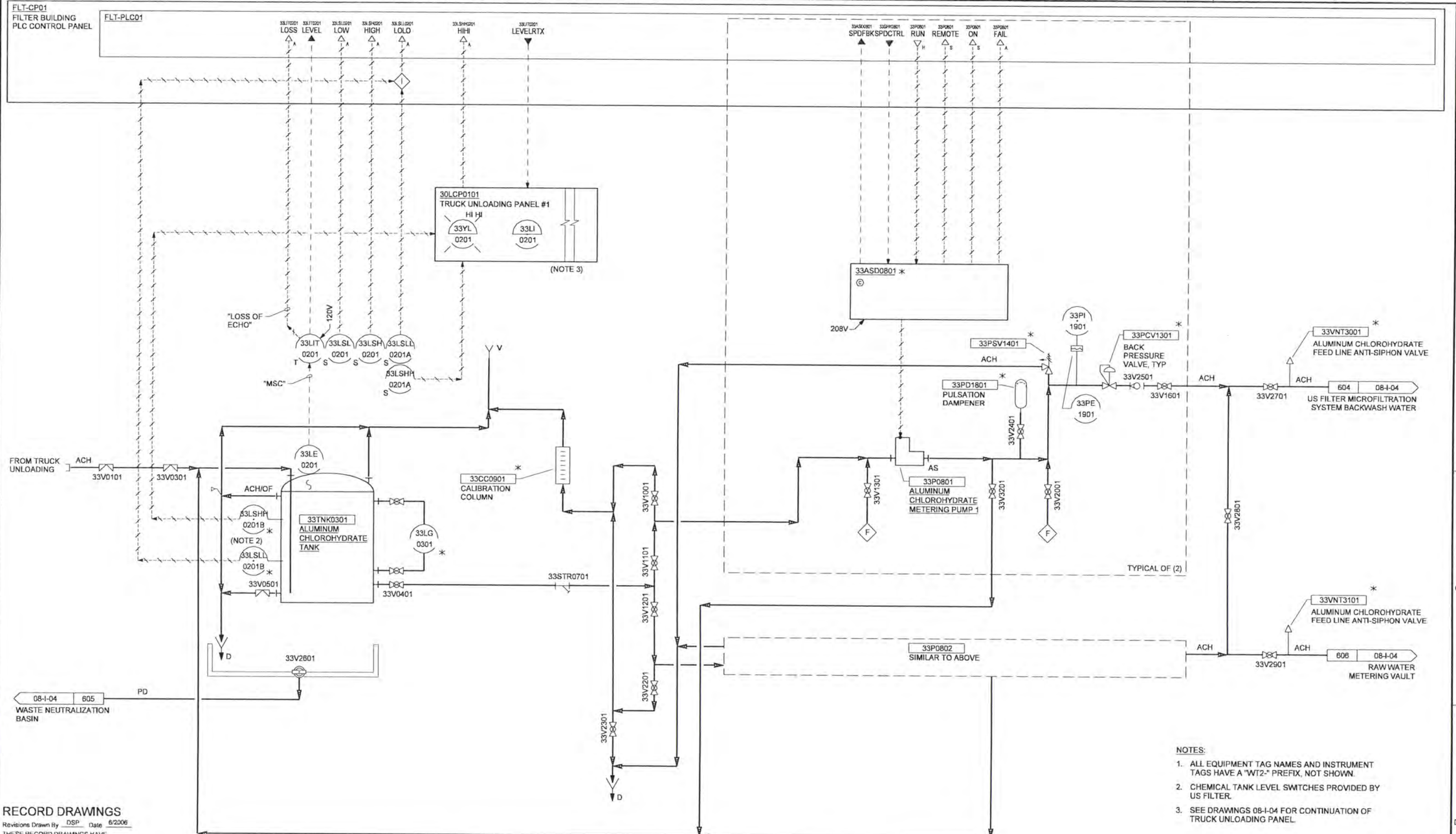


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

P&ID
 INSTRUMENTATION AND CONTROL
 SODIUM HYPOCHLORITE

SHEET	25
DWG	08-I-05
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
1. ALL EQUIPMENT TAG NAMES AND INSTRUMENT TAGS HAVE A "WT2-" PREFIX, NOT SHOWN.
 2. CHEMICAL TANK LEVEL SWITCHES PROVIDED BY US FILTER.
 3. SEE DRAWINGS 08-1-04 FOR CONTINUATION OF TRUCK UNLOADING PANEL.

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	EN LOUIE JD KANYUCH
DR	DS PARKER
CHK	LL WOOD
APVD	CW MASSIE

NO.	DATE	REVISION	BY	APVD
1	6/2006	RECORD DRAWING	DSP	APVD

VERIFY SCALE
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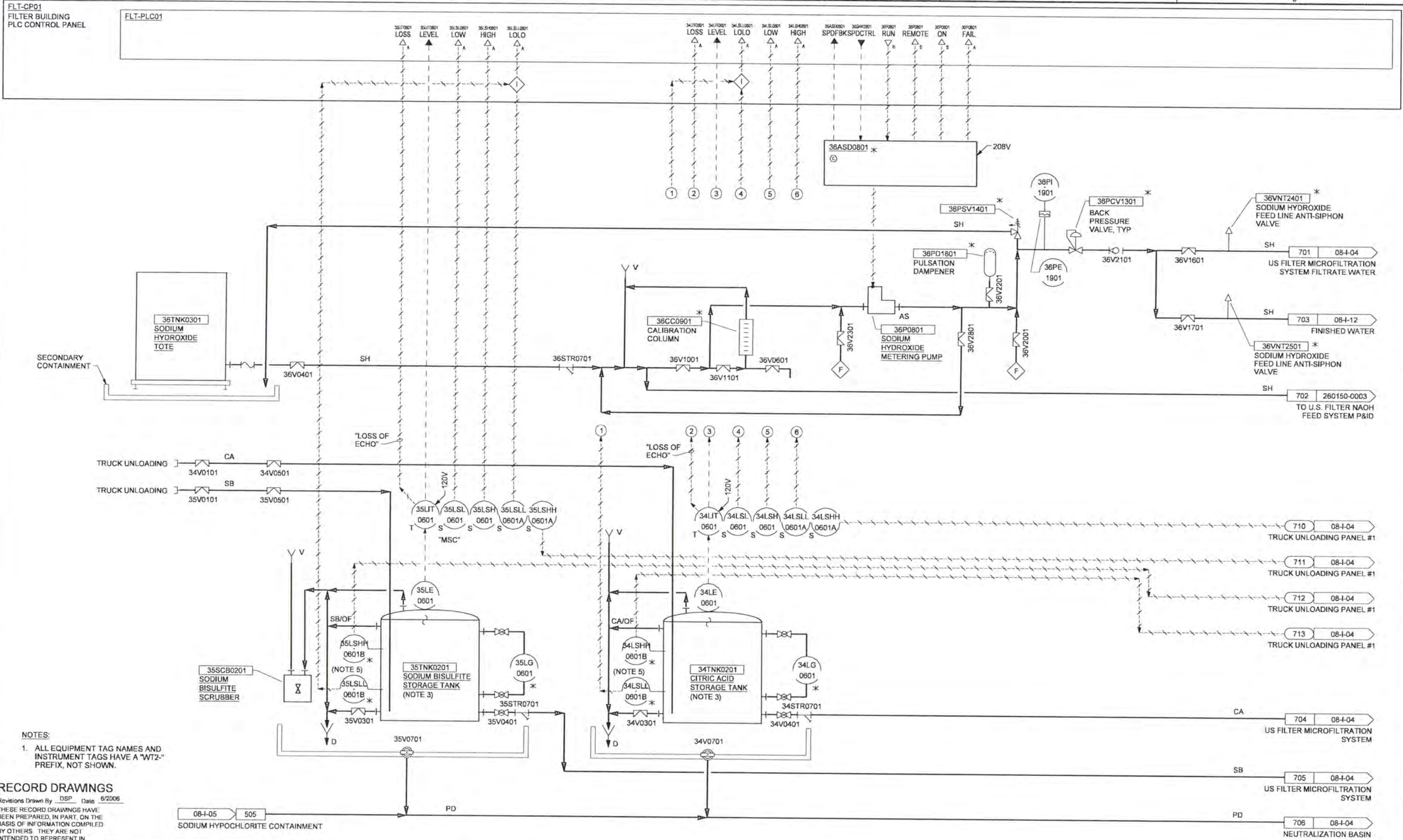


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

P&ID
 INSTRUMENTATION AND CONTROL
 ALUMINUM CHLOROHYDRATE

SHEET	26
DWG	08-1-06
DATE	APRIL 2004
PROJ	170368

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NOTES:
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RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	EN LOUIE
DR	DS PARKER
CHK	LL WOOD
APVD	CW MASSIE

NO.	DATE	REVISION
08-05	505	

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

P&ID
 INSTRUMENTATION AND CONTROL
 SODIUM HYDROXIDE, SODIUM BISULFITE,
 AND CITRIC ACID STORAGE

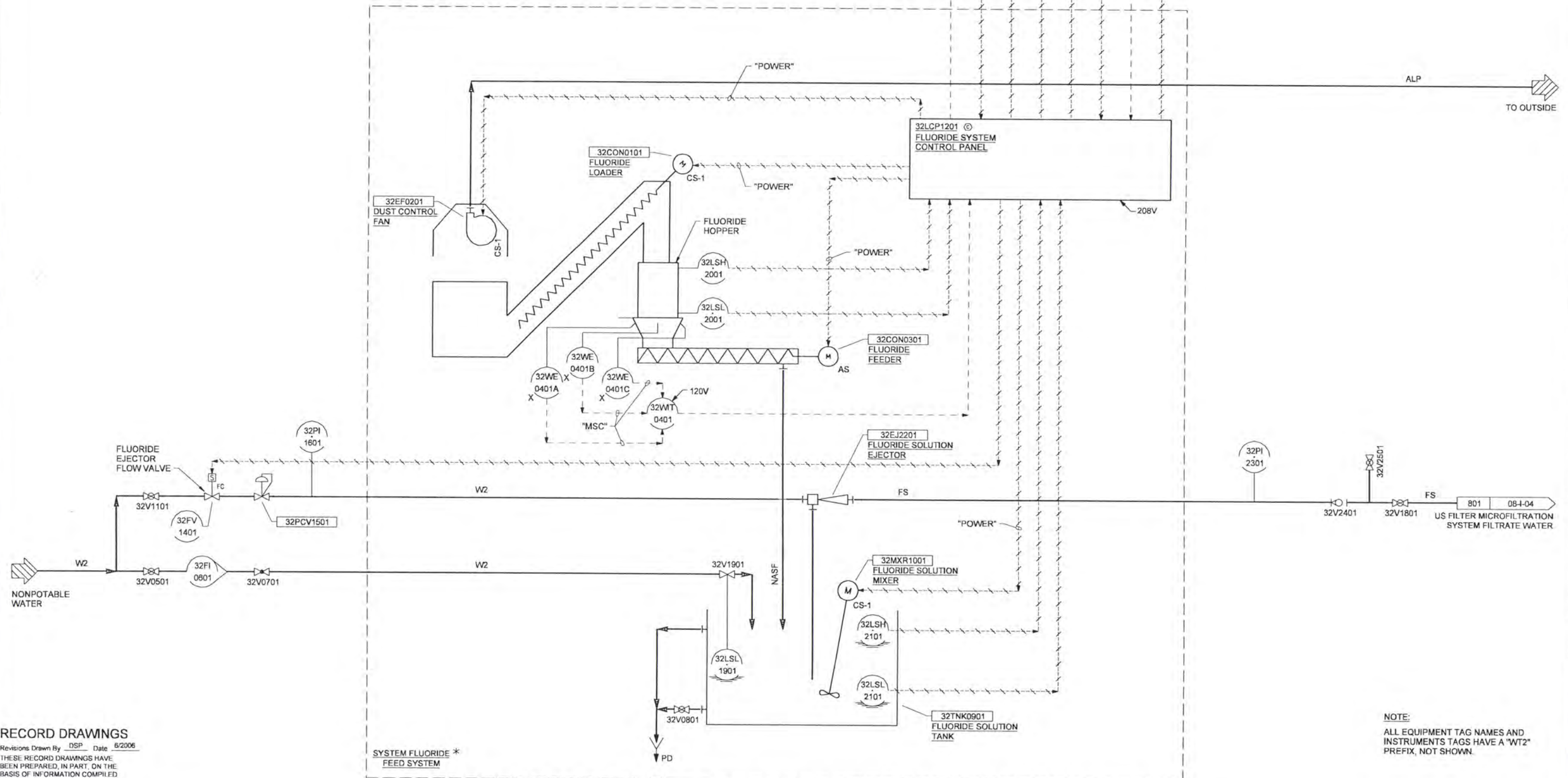
SHEET	27
DWG	08-07
DATE	APRIL 2004
PROJ	170368

REUSE OF DOCUMENTS: CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

FLT-CP01
FILTER BUILDING PLC CONTROL PANEL

FLT-PLC01

32WF1001 WEIGHT
32FV1001 OPEN
32LCP1201 ALARM
32CON0301 REMOTE
32CON0301 ON
32CON0301 RUN
32CON0301 SPDCTRL
32CON0301 ON



RECORD DRAWINGS

Revisions Drawn By DSP Date 5/2006
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DSGN	BA YOUKER				
DR	DS PARKER				
CHK	LL WOOD	6/2006	RECORD DRAWING	NO.	DATE
APVD	CW MASSIE			REVISION	

SYSTEM FLUORIDE *
FEED SYSTEM

NOTE:
ALL EQUIPMENT TAG NAMES AND INSTRUMENTS TAGS HAVE A "WT2" PREFIX, NOT SHOWN.

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

P&ID
INSTRUMENTATION AND CONTROL
FLUORIDE SYSTEM

SHEET	28
DWG	08-I-08
DATE	APRIL 2004
PROJ	170368

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FLT-CP01
 FILTER BUILDING
 PLC CONTROL PANEL

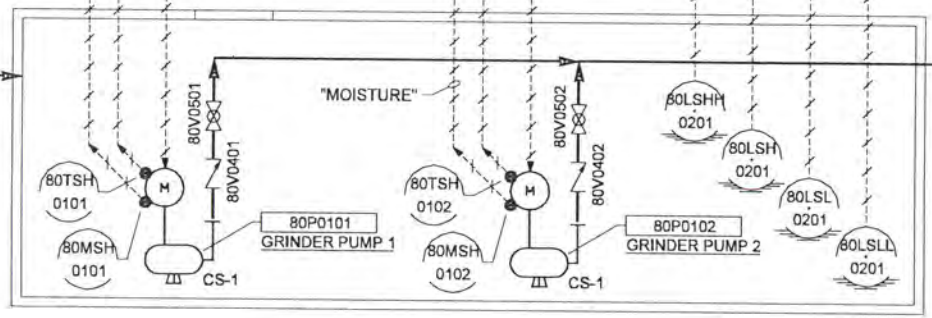
FLT-PLC01

80P0101
 ON

80P0102
 ON

80LSP001
 HIHI

480V
 80LCP0100 * ©
 SANITARY SEWER GRINDER PUMP STATION
 PACKAGE CONTROL PANEL



SANITARY SEWER *
 GRINDER PUMP
 STATION PACKAGE

FILTRATION BLDG
 SANITARY SEWER

CITY OF MILLERSBURG
 SEWER SYSTEM

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	AG OLSON JD KANYUCH						
DR	DS PARKER						
CHK	LL WOOD	1	6/2006	RECORD DRAWING			
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

P&ID
 INSTRUMENTATION AND CONTROL
 SANITARY SEWER

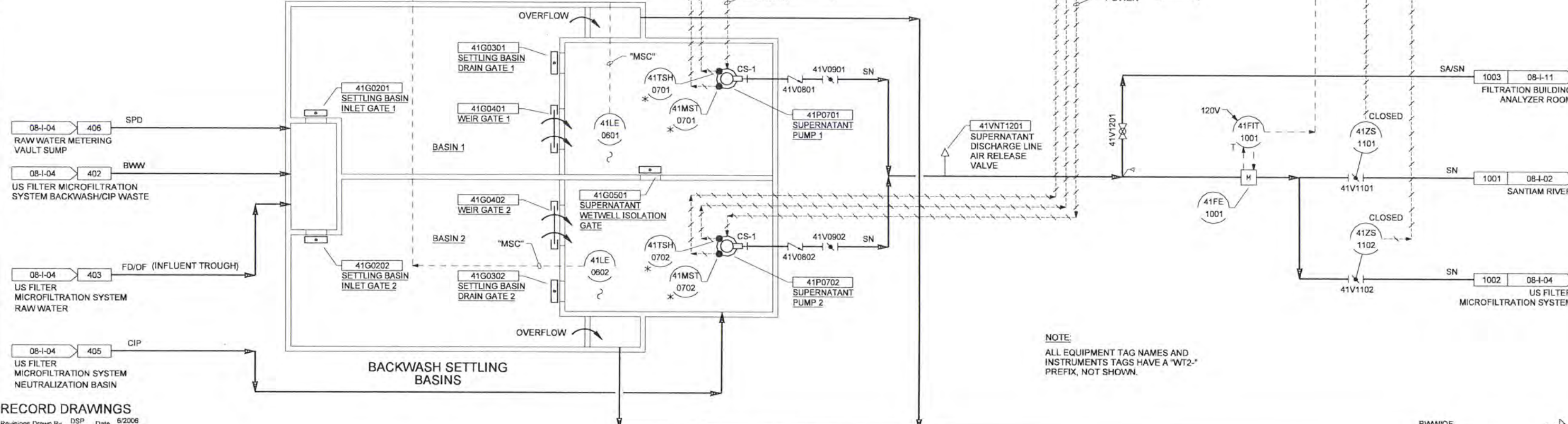
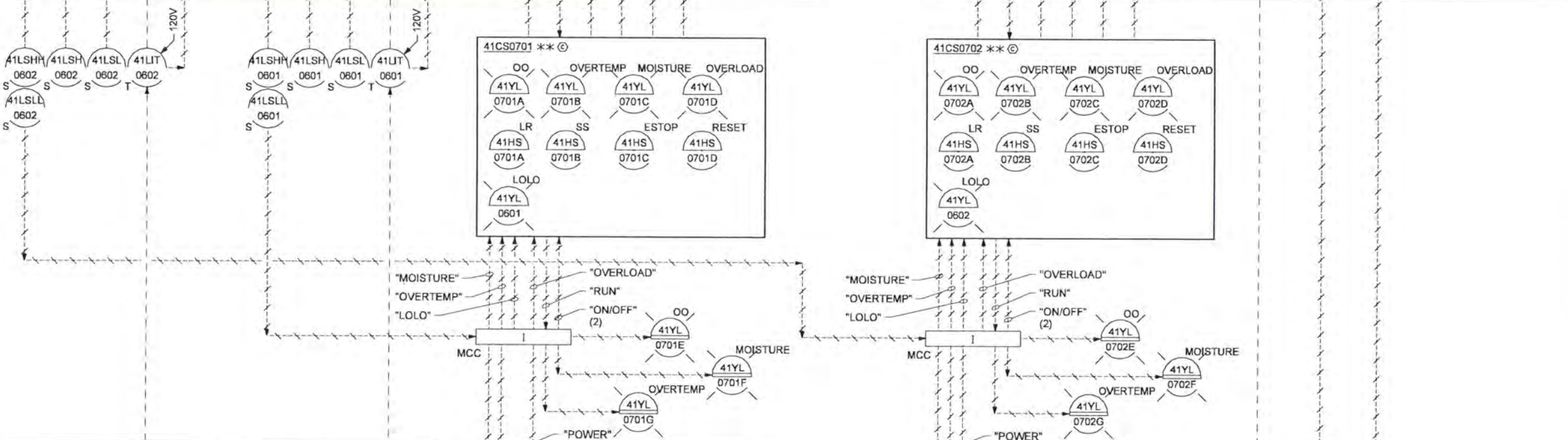
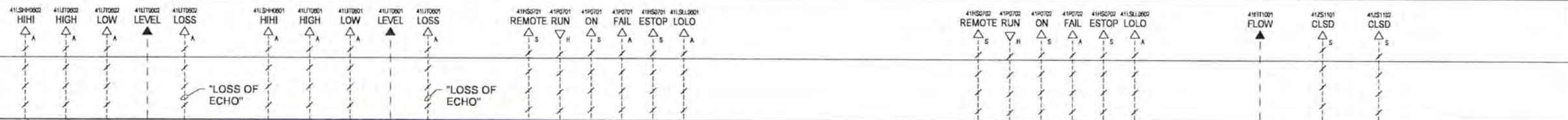
SHEET	29
DWG	08-I-09
DATE	APRIL 2004
PROJ	170368

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FLT-CP01
FILTER BUILDING
PLC CONTROL PANEL

FLT-PLC01



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RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	EN LOUIE
DR	DS PARKER
CHK	LL WOOD
APVD	CW MASSIE

NO.	DATE
	6/2006

RECORD DRAWING

REVISION

BY APVD

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

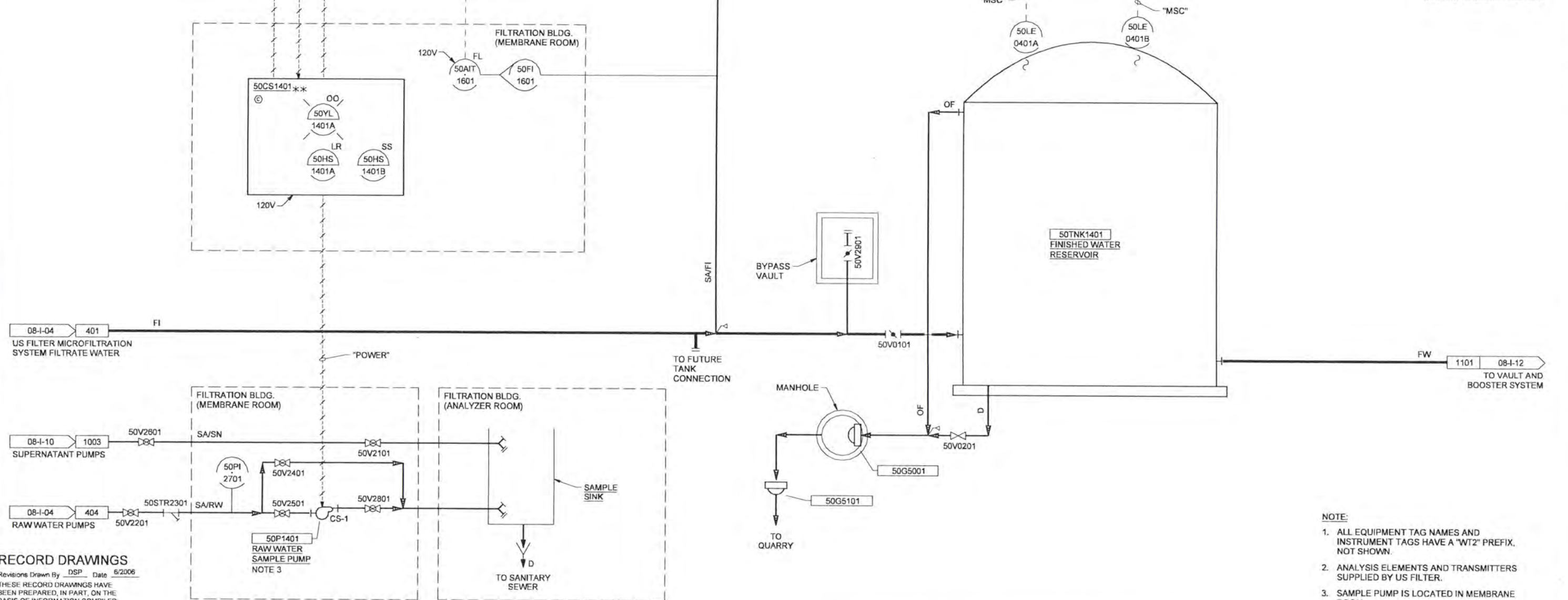
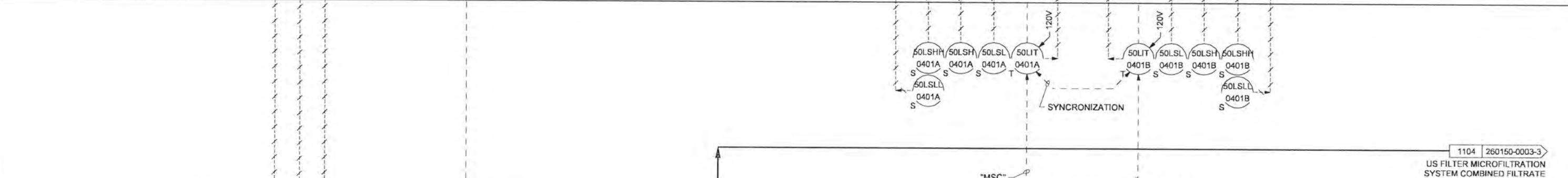
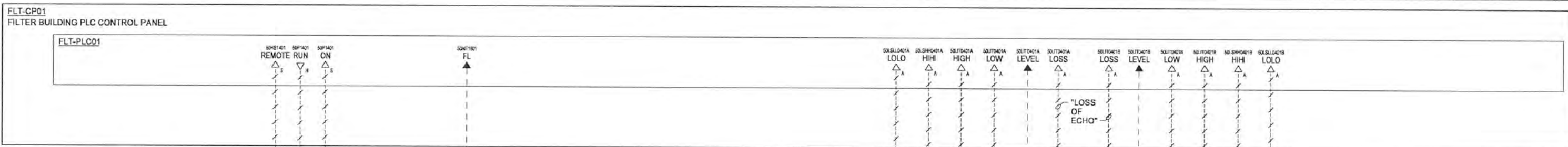


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

P&ID
INSTRUMENTATION AND CONTROL
BACKWASH WATER HANDLING/
SUPERNATANT RETURN

SHEET	30
DWG	08-I-10
DATE	APRIL 2004
PROJ	170368

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Revisions Drawn By DSP Date 6/2006

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DSGN	TP ENGLESON
DR	DS PARKER
CHK	LL WOOD
APVD	CW MASSIE

NO. DATE

6/2006

RECORD DRAWING

REVISION

BY APVD

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL

ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

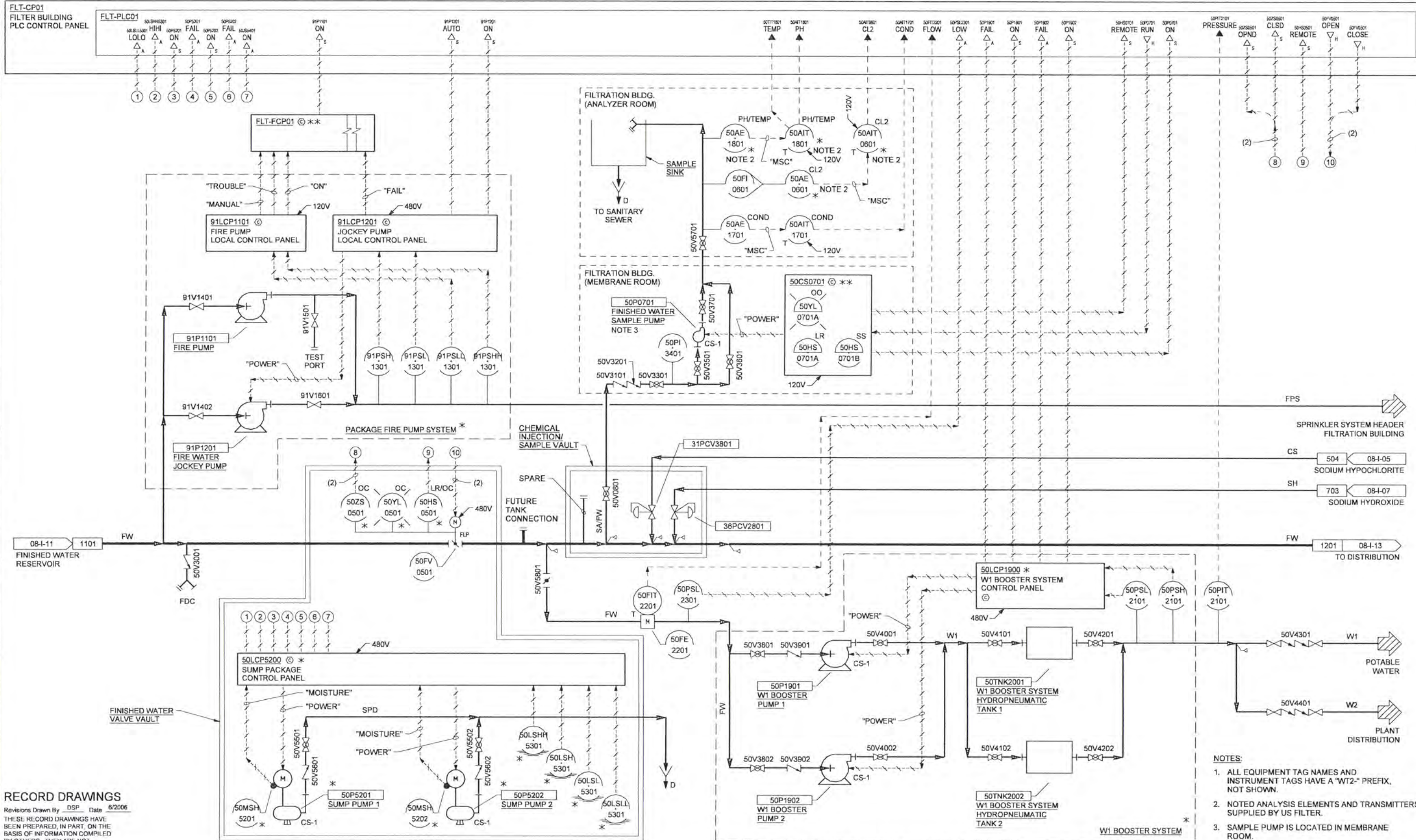
P&ID
INSTRUMENTATION AND CONTROL
FINISHED WATER RESERVOIR

SHEET	31
DWG	08-I-11
DATE	APRIL 2004
PROJ	170368

NOTE:

1. ALL EQUIPMENT TAG NAMES AND INSTRUMENT TAGS HAVE A "WT2" PREFIX, NOT SHOWN.
2. ANALYSIS ELEMENTS AND TRANSMITTERS SUPPLIED BY US FILTER.
3. SAMPLE PUMP IS LOCATED IN MEMBRANE ROOM.

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RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	AG OLSON		
DR	DS PARKER		
CHK	LL WOOD		
APVD	CW MASSIE		

NO.	1	DATE	6/2006	RECORD DRAWING
REVISION				

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	



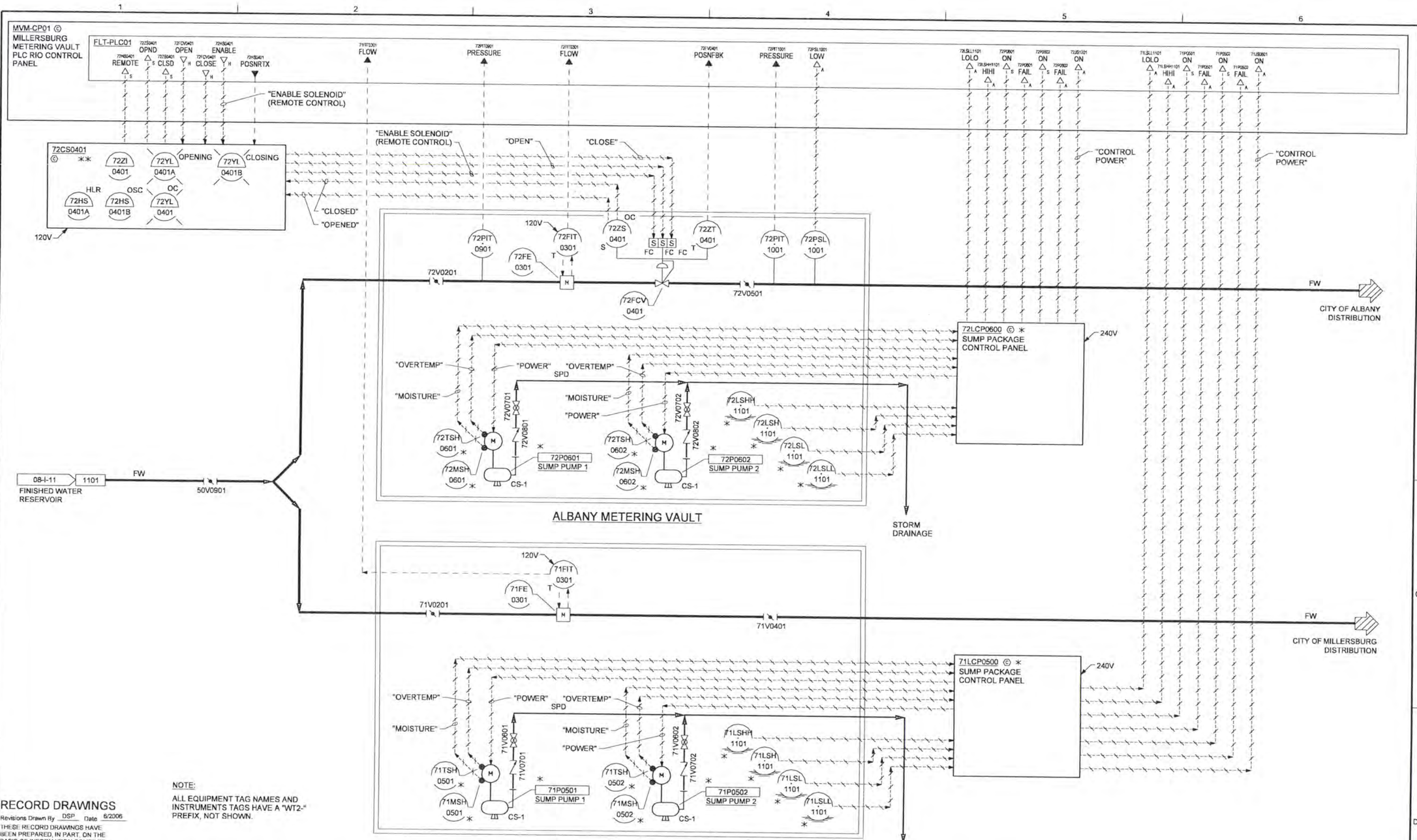
ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

P&ID
INSTRUMENTATION AND CONTROL
FINISHED WATER
PLANT DISTRIBUTION

SHEET	32
DWG	08-I-12
DATE	APRIL 2004
PROJ	170368

- NOTES:**
- ALL EQUIPMENT TAG NAMES AND INSTRUMENT TAGS HAVE A "WT2-" PREFIX, NOT SHOWN.
 - NOTED ANALYSIS ELEMENTS AND TRANSMITTERS SUPPLIED BY US FILTER.
 - SAMPLE PUMP IS LOCATED IN MEMBRANE ROOM.

REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL.



RECORD DRAWINGS
 Revisions Drawn By DSP Date 6/2006

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NOTE:
 ALL EQUIPMENT TAG NAMES AND INSTRUMENTS TAGS HAVE A "WT2-" PREFIX, NOT SHOWN.

DSGN	JL MCWADE JD KANYUCH		
DR	DS PARKER		
CHK	LL WOOD	6/2006	RECORD DRAWING
APVD	CW MASSIE		

NO.	DATE	REVISION

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



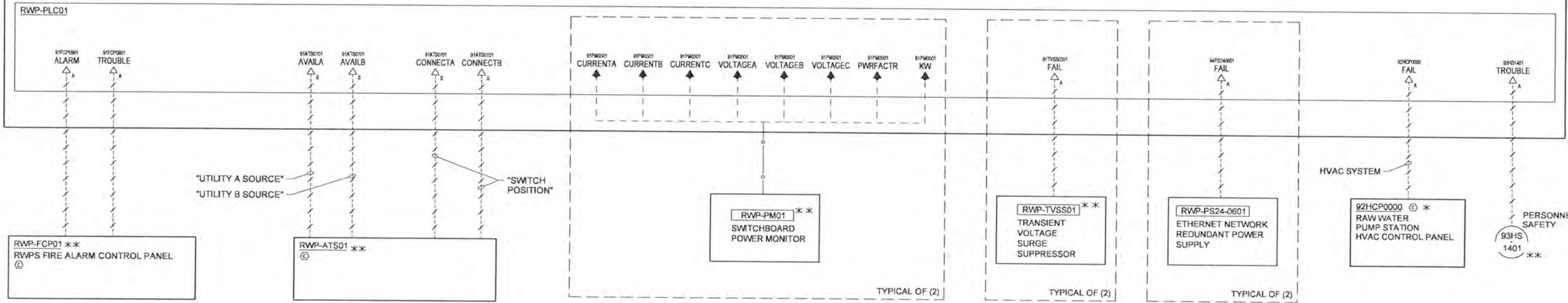
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

P&ID
 INSTRUMENTATION AND CONTROL
 METERING VAULTS

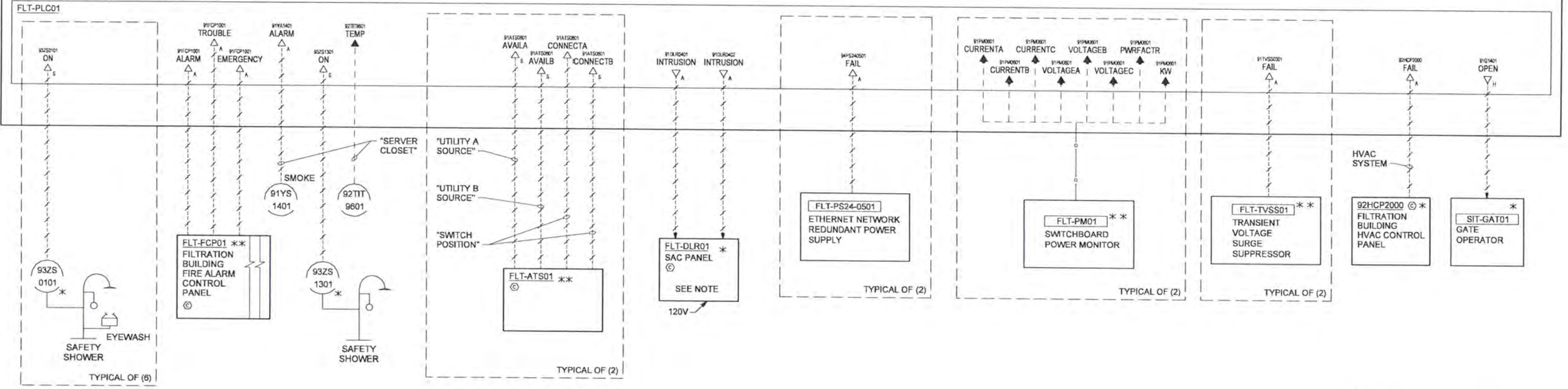
SHEET	33
DWG	08-1-13
DATE	APRIL 2004
PROJ	170368

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RWP-CP01
RAW WATER PUMP STATION PLC CONTROL PANEL



FLT-CP01
FILTER BUILDING PLC CONTROL PANEL



RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006
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DSGN	RG COLLETTE								
DR	DS PARKER								
CHK	LL WOOD								
APVD	CW MASSIE								
NO.	DATE	REVISION	BY	APVD	DATE	REVISION	BY	APVD	DATE
	6/2006	RECORD DRAWING	DSP	DS					

VERIFY SCALE
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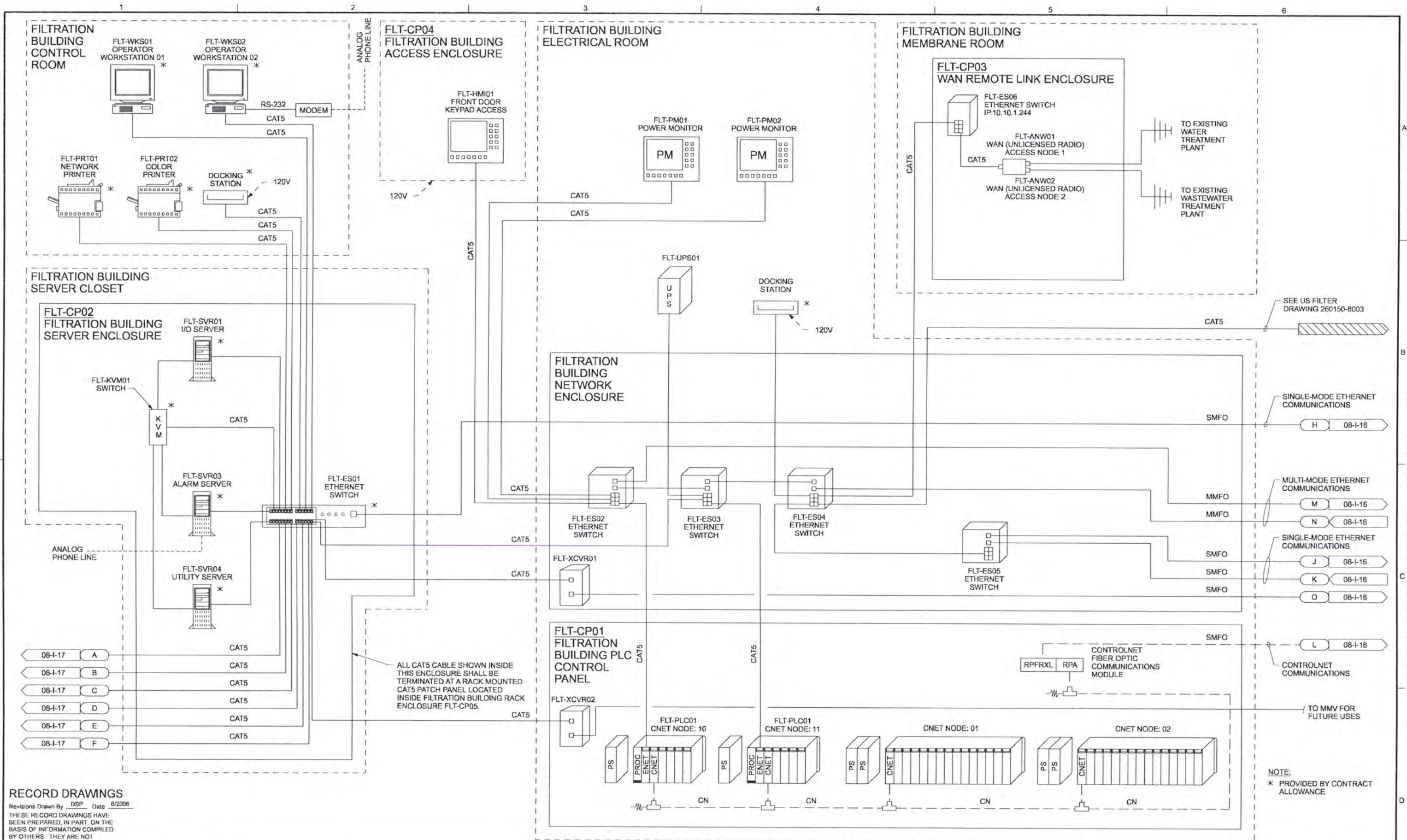


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

P&ID
 INSTRUMENTATION AND CONTROL
 MISCELLANEOUS

SHEET	34
DWG	08-1-14
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	JD KANYUCH
DR	DS PARKER
CHK	LL WOOD
APVD	CW MASSIE

NO.	DATE
12/06	

RECORD DRAWING	CSB	JDK
REVISION	BY	APVD

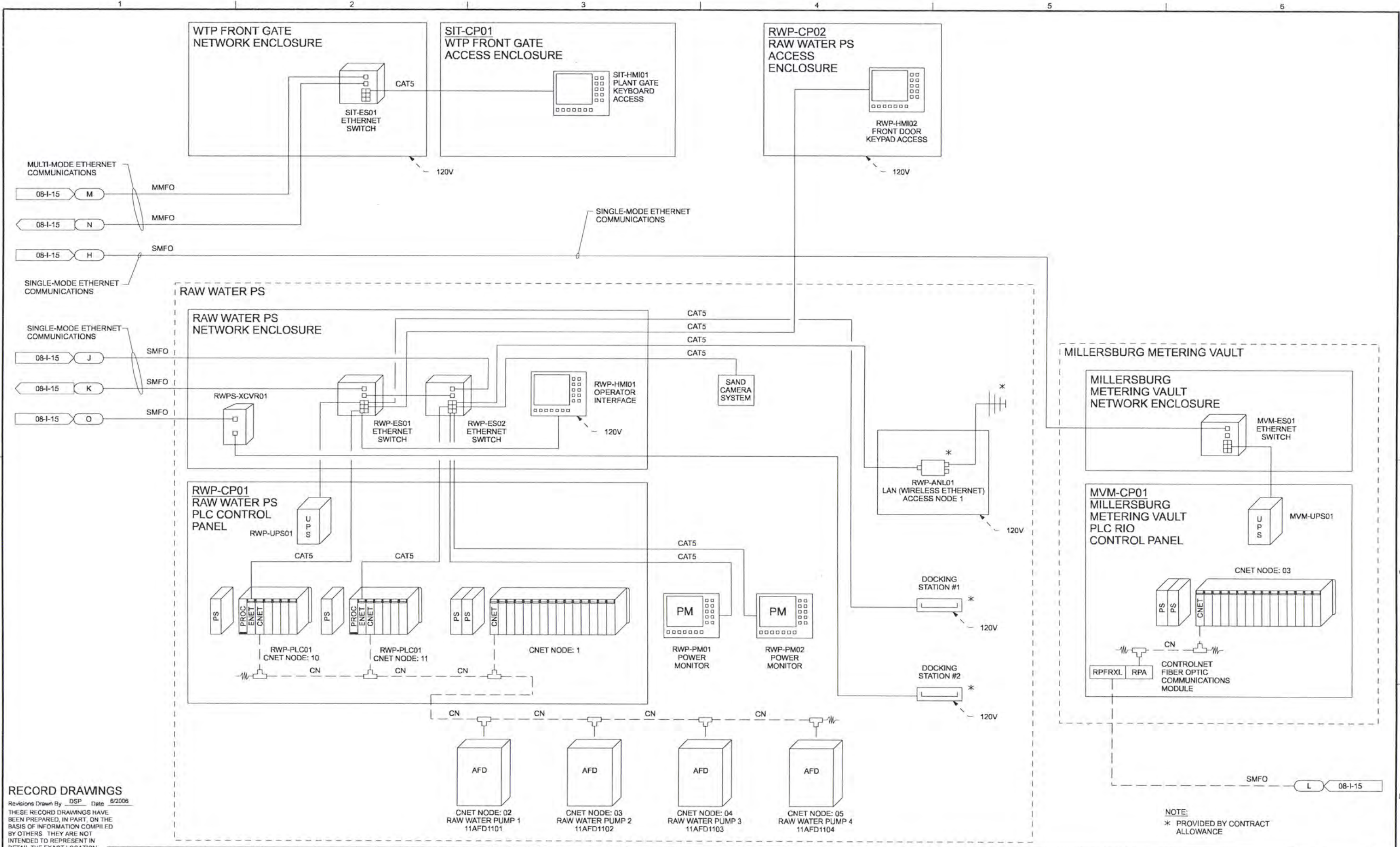
VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROLS
 CONTROL SYSTEM BLOCK DIAGRAM

SHEET	35
DWG	08-1-15
DATE	APRIL 2004
PROJ	170368



RECORD DRAWINGS

Revisions Drawn By DSP Date 8/2006
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DSGN	JD KANYUCH	NO.	1	DATE	12/06	REVISION	RECORD DRAWING	CSB	JDK	VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	DS PARKER										
CHK	LL WOOD										
APVD	CW MASSIE										

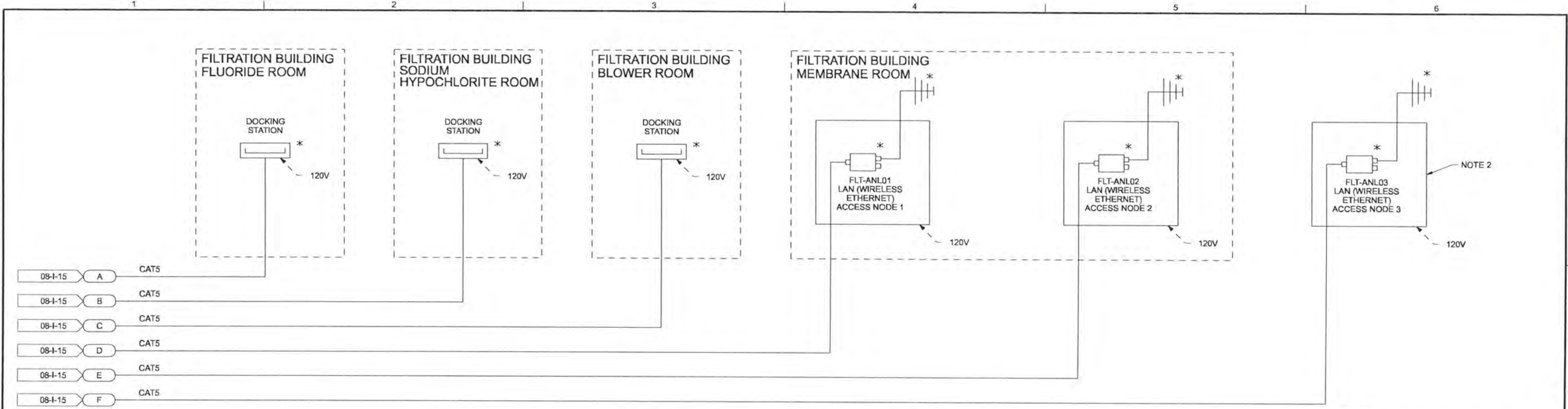


ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 CONTROL SYSTEM BLOCK DIAGRAM

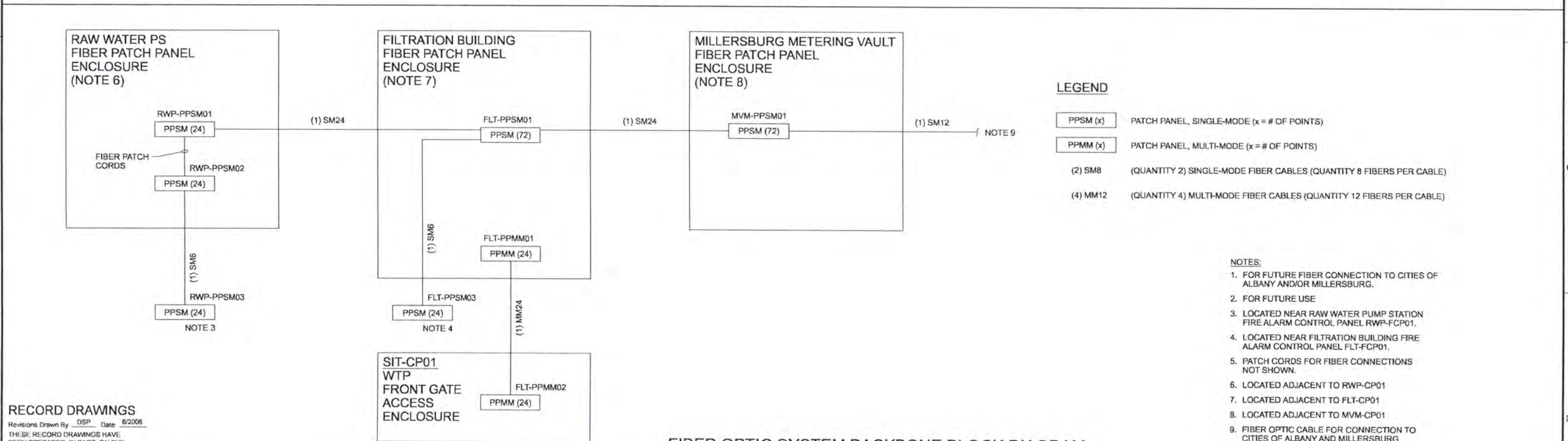
SHEET	36
DWG	08-I-16
DATE	APRIL 2004
PROJ	170368

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CONTROL SYSTEM BLOCK DIAGRAM

- NOTES:**
- * PROVIDED BY CONTRACT ALLOWANCE.
 - LOCATED OUTSIDE THE FILTRATION BUILDING (FOR WIRELESS ETHERNET COVERAGE AT THE BACKWASH WATER SETTLING BASIN AREA).



LEGEND

- PPSM (x) PATCH PANEL, SINGLE-MODE (x = # OF POINTS)
- PPMM (x) PATCH PANEL, MULTI-MODE (x = # OF POINTS)
- (2) SM8 (QUANTITY 2) SINGLE-MODE FIBER CABLES (QUANTITY 8 FIBERS PER CABLE)
- (4) MM12 (QUANTITY 4) MULTI-MODE FIBER CABLES (QUANTITY 12 FIBERS PER CABLE)

- NOTES:**
- FOR FUTURE FIBER CONNECTION TO CITIES OF ALBANY AND/OR MILLERSBURG.
 - FOR FUTURE USE
 - LOCATED NEAR RAW WATER PUMP STATION FIRE ALARM CONTROL PANEL RWP-FCP01.
 - LOCATED NEAR FILTRATION BUILDING FIRE ALARM CONTROL PANEL FLT-FCP01.
 - PATCH CORDS FOR FIBER CONNECTIONS NOT SHOWN.
 - LOCATED ADJACENT TO RWP-CP01
 - LOCATED ADJACENT TO FLT-CP01
 - LOCATED ADJACENT TO MVM-CP01
 - FIBER OPTIC CABLE FOR CONNECTION TO CITIES OF ALBANY AND MILLERSBURG. INSTALLED AND TERMINATED BY OTHERS.

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006
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DSGN	JD KANYUCH	NO.	DATE	RECORD DRAWING	BY	APVD	VERIFY SCALE
DR	DS PARKER						
CHK	LL WOOD						
APVD	CW MASSIE						
							BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
							IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



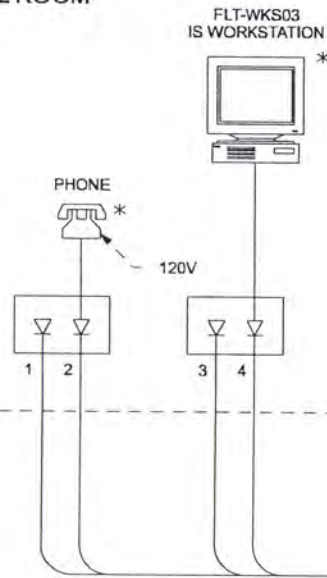
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 CONTROL SYSTEM AND FIBER OPTIC
 BLOCK DIAGRAMS

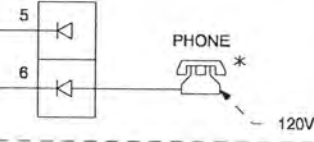
SHEET	37
DWG	08-I-17
DATE	APRIL 2004
PROJ	170368

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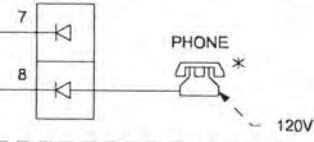
FILTRATION BUILDING CONTROL ROOM



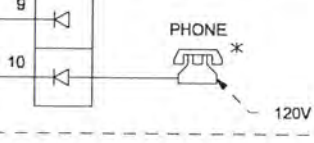
FILTRATION BUILDING ANALYZER ROOM



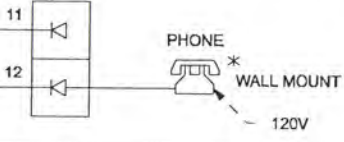
FILTRATION BUILDING PARTS ROOM



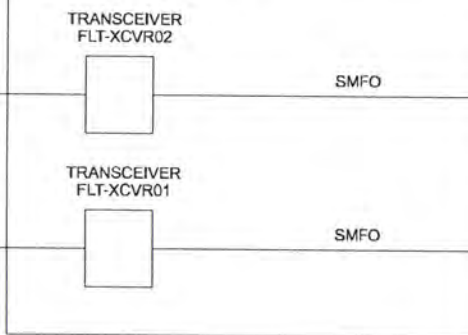
FILTRATION BUILDING LOBBY



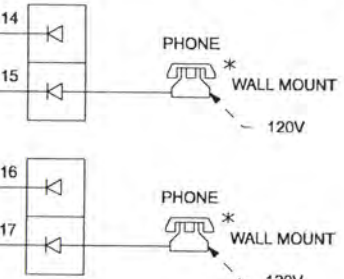
FILTRATION BUILDING ELECTRICAL ROOM



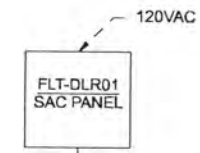
FLT-CP01 - FILTRATION BUILDING PLC CONTROL PANEL



FILTRATION BUILDING MEMBRANE ROOM



FILTRATION BUILDING JANITORS CLOSET



ANALOG PHONE LINE

MILLERSBURG METERING VAULT

MVM-CP01 MILLERSBURG METERING VAULT CONTROL PANEL

TRANSCEIVER MVM-XCVR01

CAT5

13



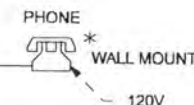
RAW WATER PUMP STATION

RWP-CP01 RAW WATER PUMP STATION CONTROL PANEL

TRANSCEIVER RWP-XCVR01

CAT5

13



FILTRATION BUILDING SERVER CLOSET

FLT-CP02 FILTRATION BUILDING SERVER ENCLOSURE

FLT-ES07 IS ETHERNET SWITCH

CAT5

CAT5 (4)

ALL CAT5 CABLE SHOWN INSIDE THIS ENCLOSURE SHALL BE TERMINATED AT A RACK MOUNTED CAT5 PATCH PANEL LOCATED INSIDE FILTRATION BUILDING RACK ENCLOSURE FLT-CP05.

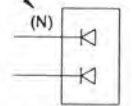
CAT5 (12)

CAT5

SINGLE-MODE ETHERNET COMMUNICATIONS

LEGEND

PORT NUMBER



DUAL PORT FLUSH MOUNT RJ-45 BOX



SINGLE PORT FLUSH MOUNT RJ-45 BOX

NOTE:

* PROVIDED BY CONTRACT ALLOWANCE

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	JD KANYUCH								
DR	DS PARKER								
CHK	LL WOOD								
APVD	CW MASSIE								
NO.	DATE	REVISION	BY	APVD					

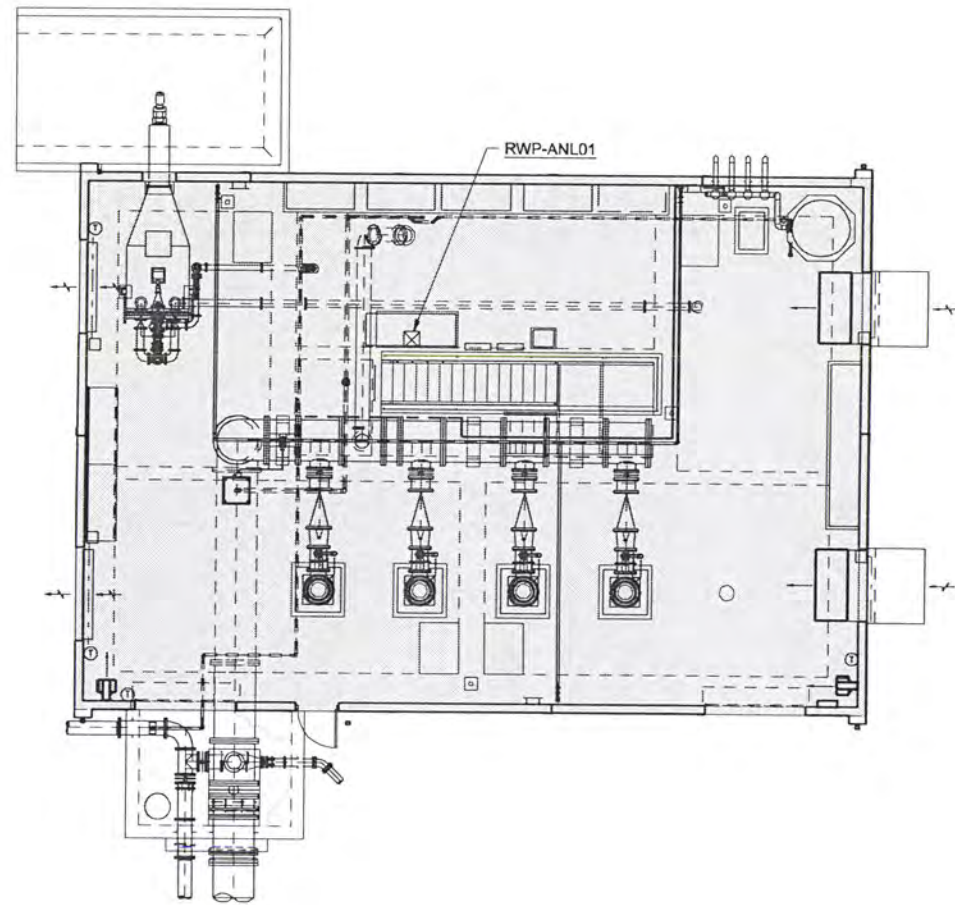
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
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ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

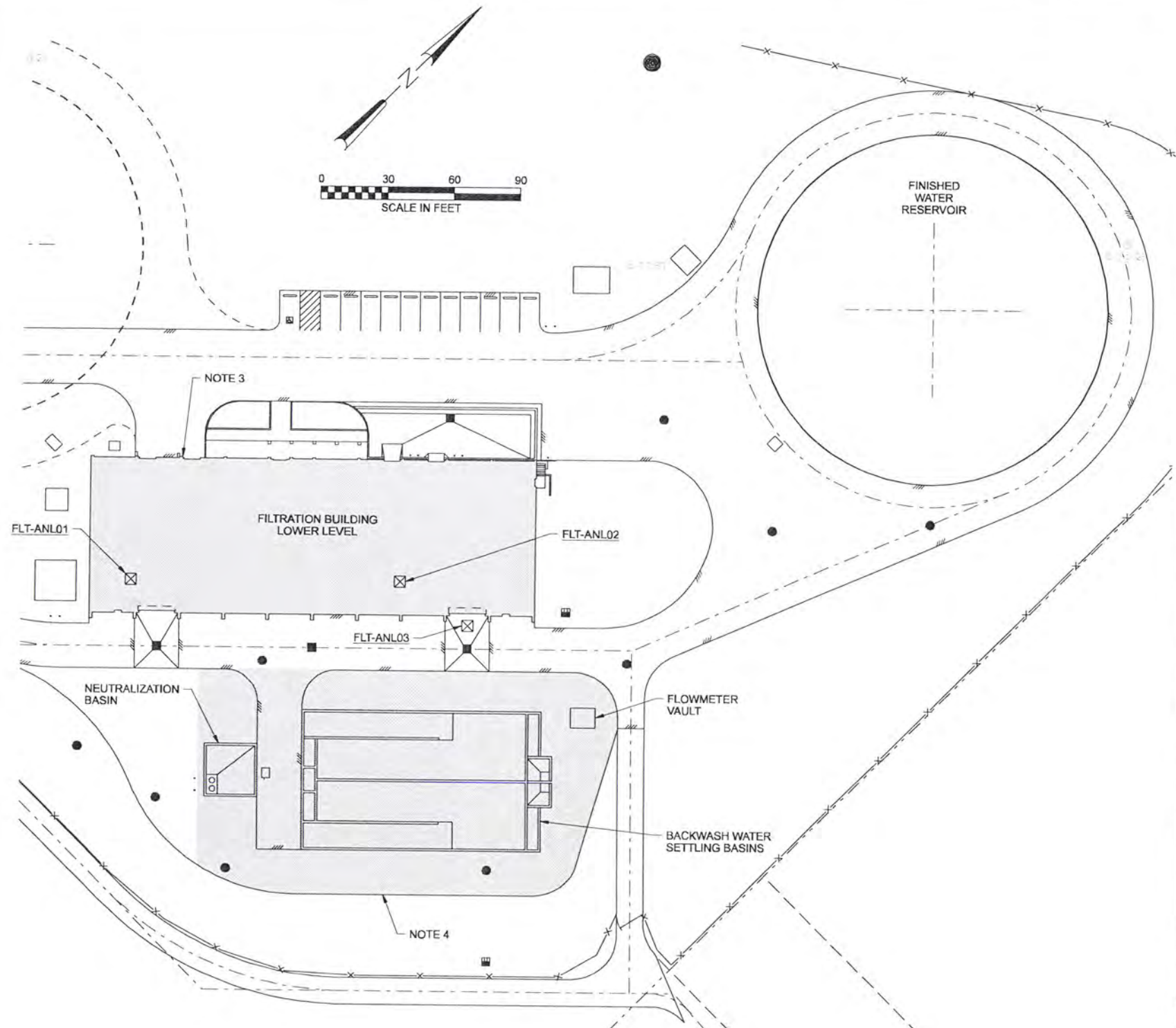
INSTRUMENTATION AND CONTROLS
INFORMATION SYSTEM BLOCK DIAGRAM

SHEET	38
DWG	08-1-18
DATE	APRIL 2004
PROJ	170368



**RAW WATER PUMP STATION
UPPER LEVEL PLAN**

NOTE 2



NOTES:

1. DRAWING SHOWS ONLY APPROXIMATE LOCATIONS OF WIRELESS ETHERNET ACCESS NODES. ACTUAL LOCATIONS SHALL BE DETERMINED BY CONTRACTOR BASED ON RESULTS OF THE RADIO LAN PROPAGATION STUDY SPECIFIED IN SECTION 13421, LOCAL AREA NETWORK (LAN) SUBSYSTEM.
2. PROVIDE WIRELESS ETHERNET COVERAGE TO RAW WATER PUMP STATION UPPER LEVEL ONLY.
3. PROVIDE WIRELESS ETHERNET COVERAGE TO FILTRATION BUILDING LOWER LEVEL ONLY.
4. PROVIDE WIRELESS ETHERNET COVERAGE TO THE BACKWASH WATER SETTLING BASIN AREA.

SYMBOL LEGEND

☒ WIRELESS ETHERNET ACCESS NODE

RECORD DRAWINGS

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DSGN	JD KANYUCH	6/2006 RECORD DRAWING	NO. DATE REVISION	BY APVD
DR	DS PARKER			
CHK	LL WOOD			
APVD	CW MASSIE			

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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROLS
WIRELESS ETHERNET
COVERAGE MAP

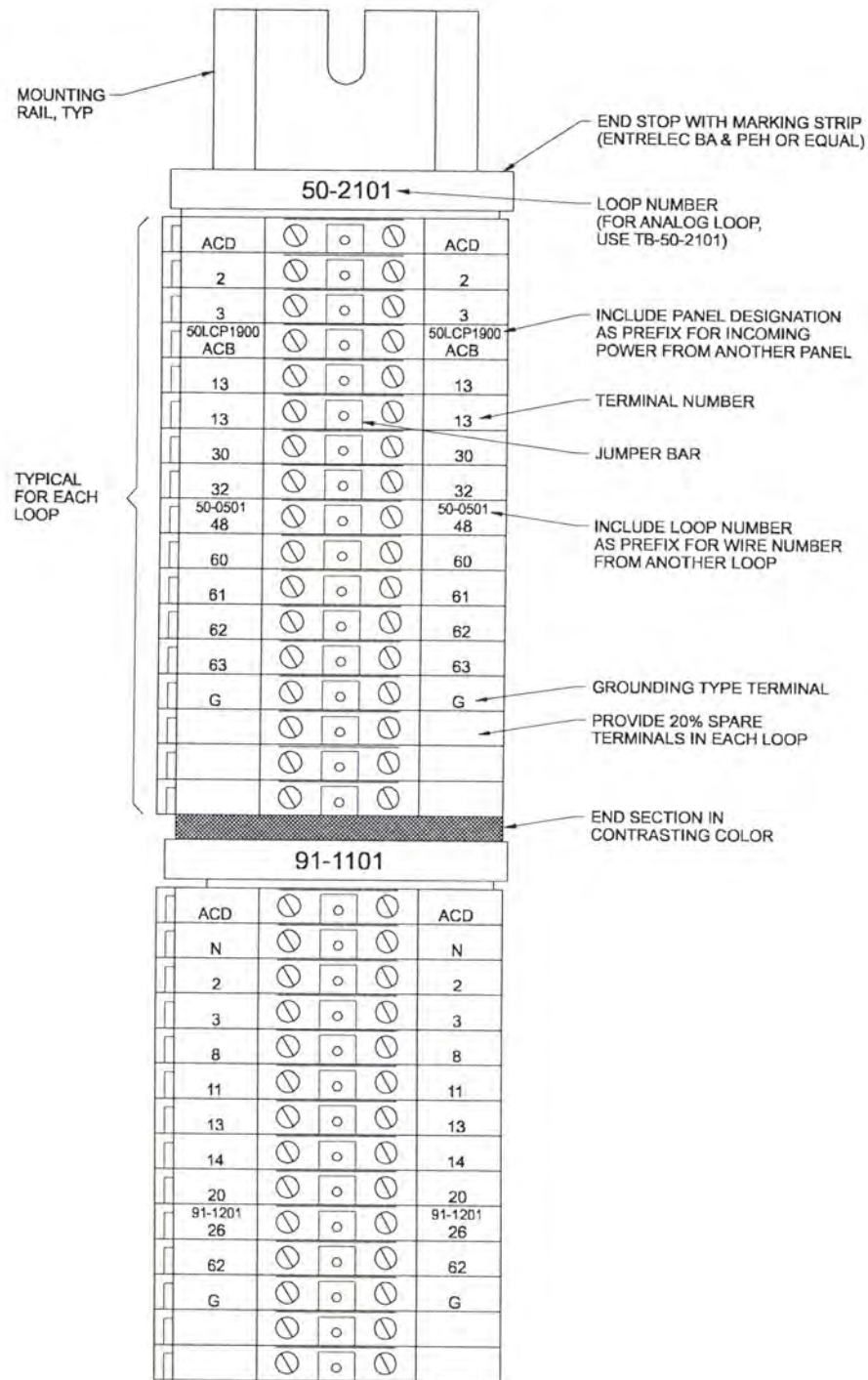
SHEET	39
DWG	08-1-19
DATE	APRIL 2004
PROJ	170368

FILENAME: 08ni019d_170368.dgn

PLOT DATE: 28-JUN-2006

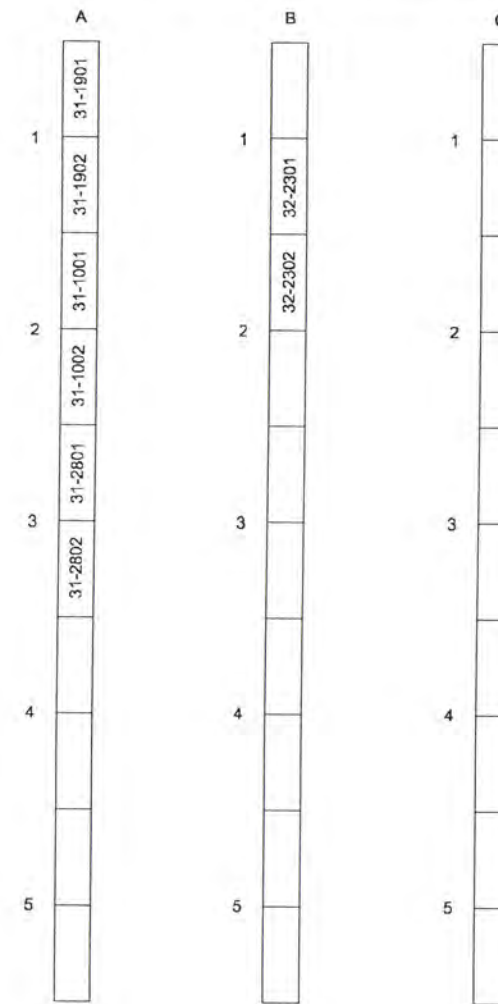
PLOT TIME: 12:01:31

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TYPICAL TERMINAL BLOCK MARKING
NTS

TERMINAL BLOCK ARRANGEMENT



TERMINAL BLOCK LOCATION CODE

LOOP	LOCATION
31-1901	A1
31-1902	A1
31-1001	A2
31-1002	A2
31-2801	A3
31-2802	A3
32-2301	B1
32-2302	B2

TYPICAL TERMINAL MATRIX ARRANGEMENT TO BE PROVIDED BY CONTRACTOR
NTS

RECORD DRAWINGS

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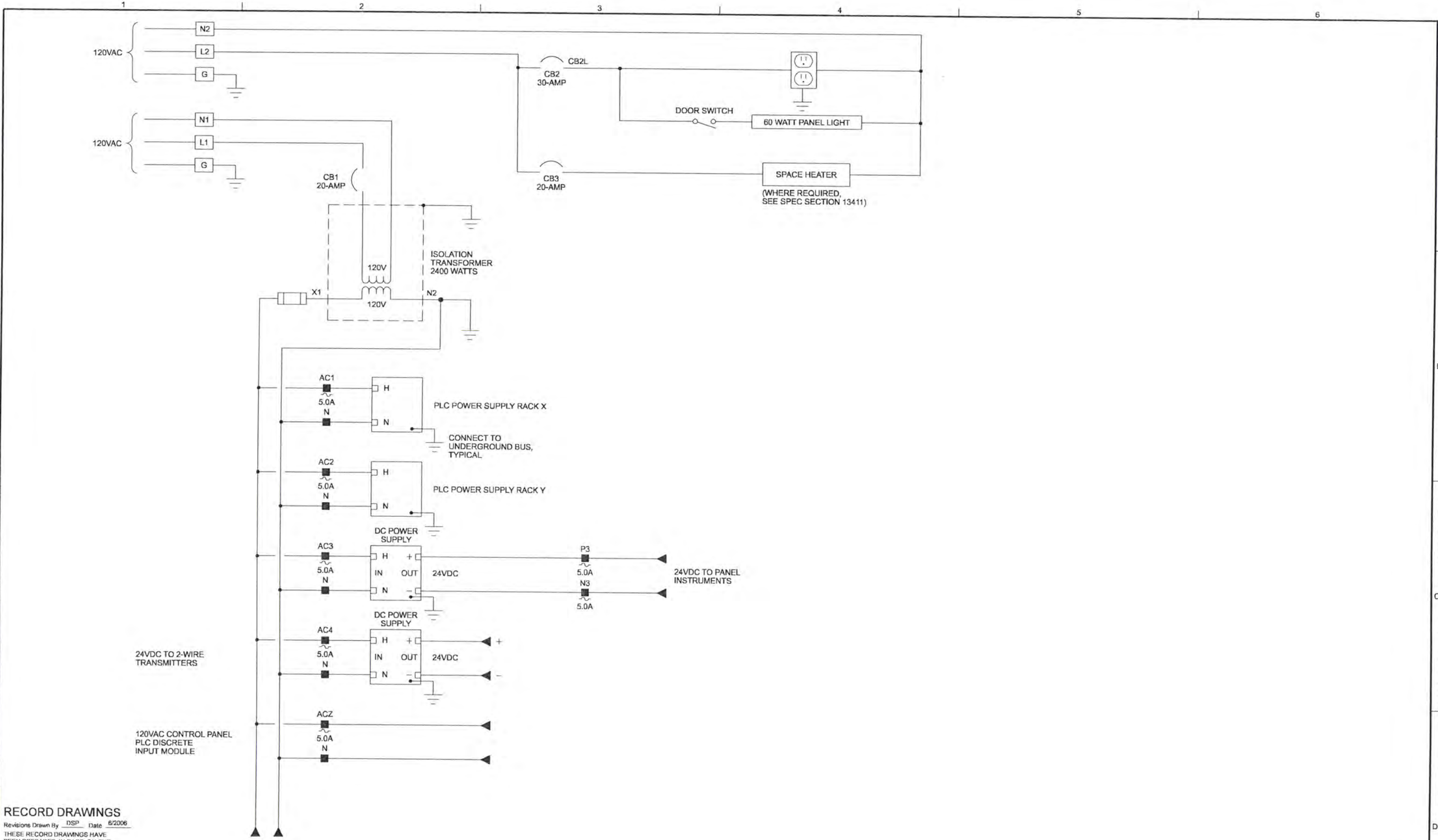
DSGN	JD KANYUCH	NO.	DATE	RECORD DRAWING	BY	APVD	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	DS PARKER						
CHK	LL WOOD						
APVD	CW MASSIE						

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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WIRING DIAGRAM
TYPICAL TERMINAL BLOCK
MARKING AND LAYOUT

SHEET	40
DWG	08-1-20
DATE	APRIL 2004
PROJ	170368



RECORD DRAWINGS

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DSGN	JD KANYUCH				
DR	DS PARKER				
CHK	LL WOOD				
APVD	CW MASSIE				
NO.	DATE	REVISION	BY	APVD	
	6/2006	RECORD DRAWING			

VERIFY SCALE
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 TYPICAL PANEL POWER
 DISTRIBUTION

SHEET	41
DWG	08-I-21
DATE	APRIL 2004
PROJ	170368

FIELD

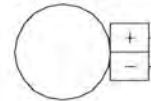
PANEL

MANUFACTURER:
MODEL:

SENSOR:

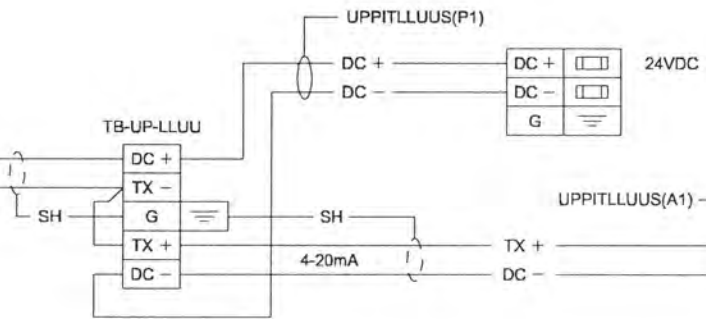
RANGE:

UPPITLLUUS



UPPITLLUUS(A)

BK
WH



PRESSURE
PLC: SIT-PLC01
N/S/C: xx/xx/xx
SOFTWARE TAG: WT2_UP_LL UU_PRESSURE
SCALE: 0-X UNITS

LOOP	LOOP DESCRIPTION	PANEL	SIT
72-0901	ALBANY METERING PIPE UPSTREAM PRESSURE	MVM-CP01	MVM
72-1001	ALBANY METERING PIPE DOWNSTREAM PRESSURE	MVM-CP01	MVM
50-2101	W1 BOOSTER SYSTEM PRESSURE	FLT-CP01	FLT

RECORD DRAWINGS

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DSGN	JD KANYUCH						
DR	DS PARKER						
CHK	LL WOOD	6/2006	RECORD DRAWING				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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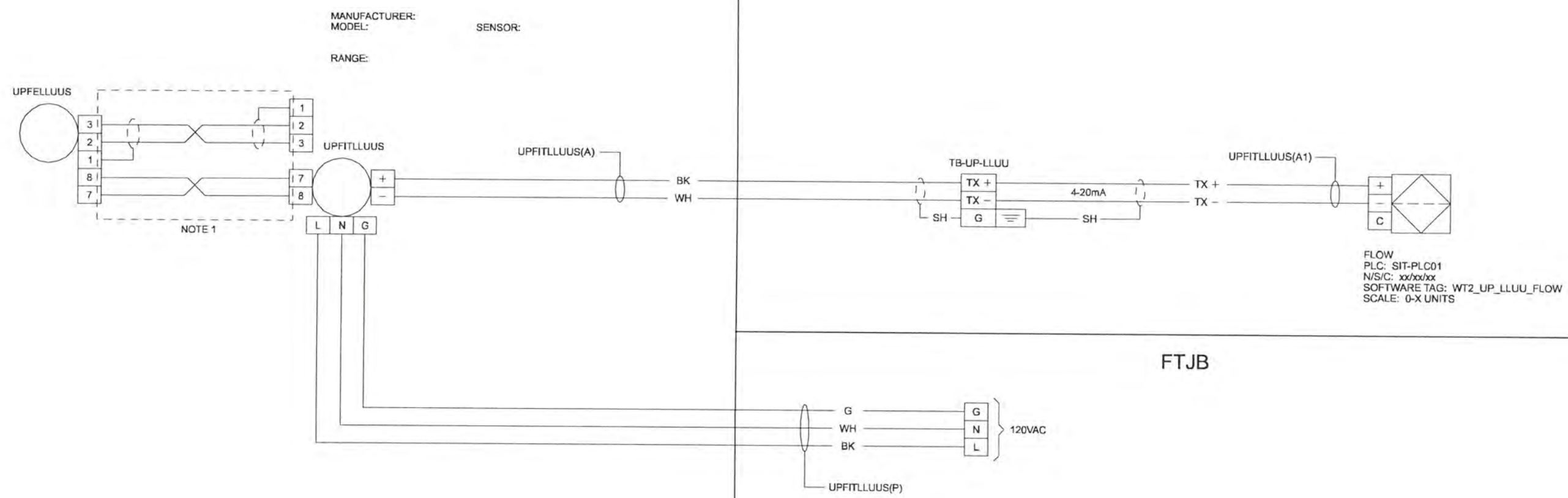
ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WIRING DIAGRAM
PRESSURE TYPICAL
ANALOG LOOP

SHEET	42
DWG	08-I-22
DATE	APRIL 2004
PROJ	170368

FIELD

PANEL



LOOP	LOOP DESCRIPTION	PANEL	SIT	FTJB	EXCEPTIONS
20-0201	FILTER SYSTEM RAW WATER FLOW	FLT-CP01	FLT	FLT-FTJB03	---
41-1001	SUPERNATANT FLOW	FLT-CP01	FLT	FLT-FTJB03	---
71-0301	MILLERSBURG METERING VAULT FLOW	MVM-CP01	MVM	---	XMTR POWERED FROM CP
72-0301	ALBANY METERING VAULT FLOW	MVM-CP01	MVM	---	XMTR POWERED FROM CP
50-2201	W1 BOOSTER PUMP FLOW	FLT-CP01	FLT	FLT-FTJB06	FE INTEGRAL TO FIT

NOTES:
1. WIRE INTERFACE BETWEEN TRANSMITTER AND ELEMENT IS BASED ON A NAMED MANUFACTURER MODEL. INTERFACE WIRING MAY VARY DEPENDING ON MANUFACTURED PRODUCT.

RECORD DRAWINGS

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DSGN	JD KANYUCH								
DR	DS PARKER								
CHK	LL WOOD								
APVD	CW MASSIE	NO.	DATE	RECORD DRAWING	REVISION	BY	APVD		

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 ██████████ 1"
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

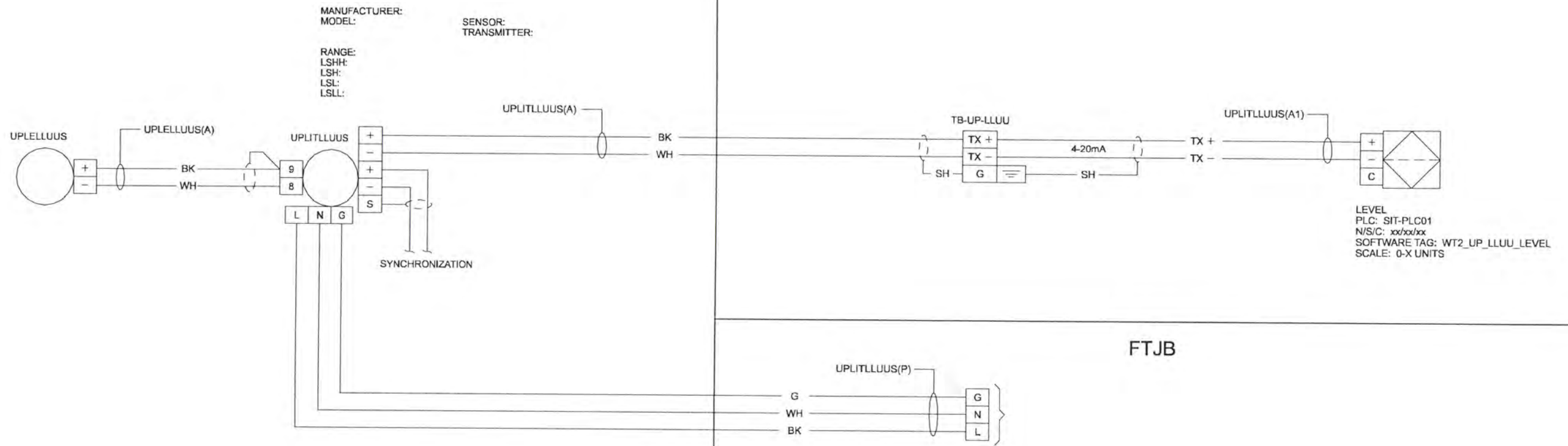
WIRING DIAGRAM
FLOW TYPICAL
ANALOG LOOP

SHEET	43
DWG	08-I-23
DATE	APRIL 2004
PROJ	170368

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FIELD

PANEL



LOOP	LOOP DESCRIPTION	PANEL	SIT	FTJB	EXCEPTIONS
11-0901	RAW WATER WET WELL 1 LEVEL	RWP-CP01	RWP	---	NO SYNCH, XMTR POWERED FROM CP
11-0902	RAW WATER WET WELL 2 LEVEL	RWP-CP01	RWP	---	NO SYNCH, XMTR POWERED FROM CP
41-0601	BACKWASH SETTLING BASIN 1 LEVEL	FLT-CP01	FLT	FLT-FTJB03	NO SYNCH
41-0602	BACKWASH SETTLING BASIN 2 LEVEL	FLT-CP01	FLT	FLT-FTJB03	NO SYNCH
50-0401A	FINISHED WATER RESERVOIR LEVEL	FLT-CP01	FLT	FLT-FTJB05	---
50-0401B	FINISHED WATER RESERVOIR LEVEL	FLT-CP01	FLT	FLT-FTJB05	---

RECORD DRAWINGS

Revisions Drawn By DSP Date 5/2006

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DSGN	JD KANYUCH								
DR	DS PARKER								
CHK	LL WOOD	6/2006	RECORD DRAWING						
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

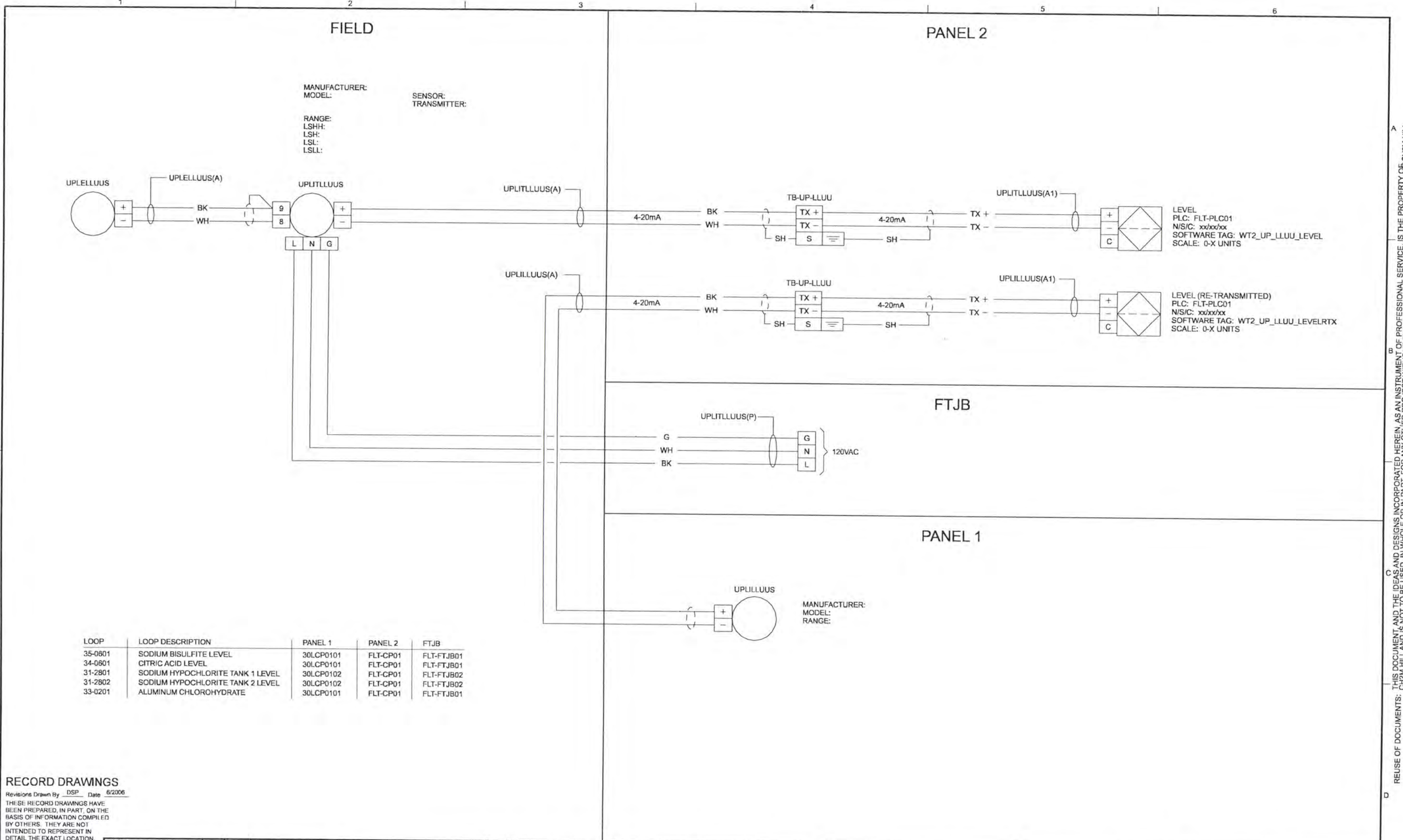
VERIFY SCALE
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WIRING DIAGRAM
ULTRASONIC LEVEL TYPICAL
ANALOG LOOP

SHEET	44
DWG	08-I-24
DATE	APRIL 2004
PROJ	170368



LOOP	LOOP DESCRIPTION	PANEL 1	PANEL 2	FTJB
35-0601	SODIUM BISULFITE LEVEL	30LCP0101	FLT-CP01	FLT-FTJB01
34-0601	CITRIC ACID LEVEL	30LCP0101	FLT-CP01	FLT-FTJB01
31-2801	SODIUM HYPOCHLORITE TANK 1 LEVEL	30LCP0102	FLT-CP01	FLT-FTJB02
31-2802	SODIUM HYPOCHLORITE TANK 2 LEVEL	30LCP0102	FLT-CP01	FLT-FTJB02
33-0201	ALUMINUM CHLOROHYDRATE	30LCP0101	FLT-CP01	FLT-FTJB01

RECORD DRAWINGS

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DSGN	JD KANYUCH	6/2006 RECORD DRAWING	NO. DATE REVISION	BY APVD
DR	DS PARKER			
CHK	LL WOOD			
APVD	CW MASSIE			

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

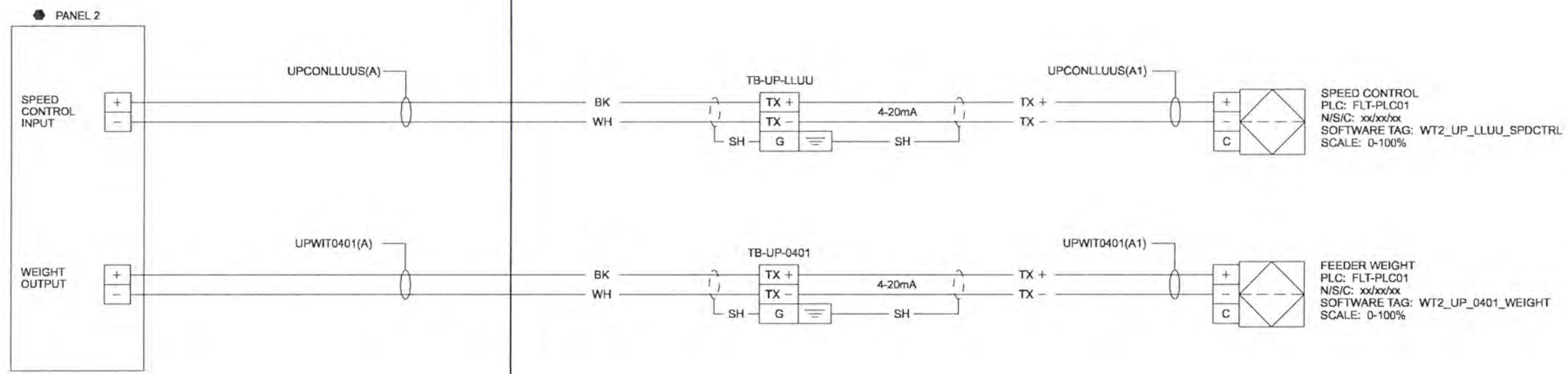
WIRING DIAGRAM
 CHEMICAL TANK LEVEL TYPICAL
 ANALOG LOOP

SHEET	45
DWG	08-1-25
DATE	APRIL 2004
PROJ	170368

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FIELD

PANEL 1



LOOP	LOOP DESCRIPTION	PANEL 1	PANEL 2
32-0301	FLUORIDE FEEDER SPEED CONTROL	FLT-CP01	32LCP1201

RECORD DRAWINGS

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DSGN	JD KANYUCH	1	6/2006	RECORD DRAWING	NO.	DATE	REVISION	BY	APVD
DR	DS PARKER								
CHK	LL WOOD								
APVD	CW MASSIE								

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 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

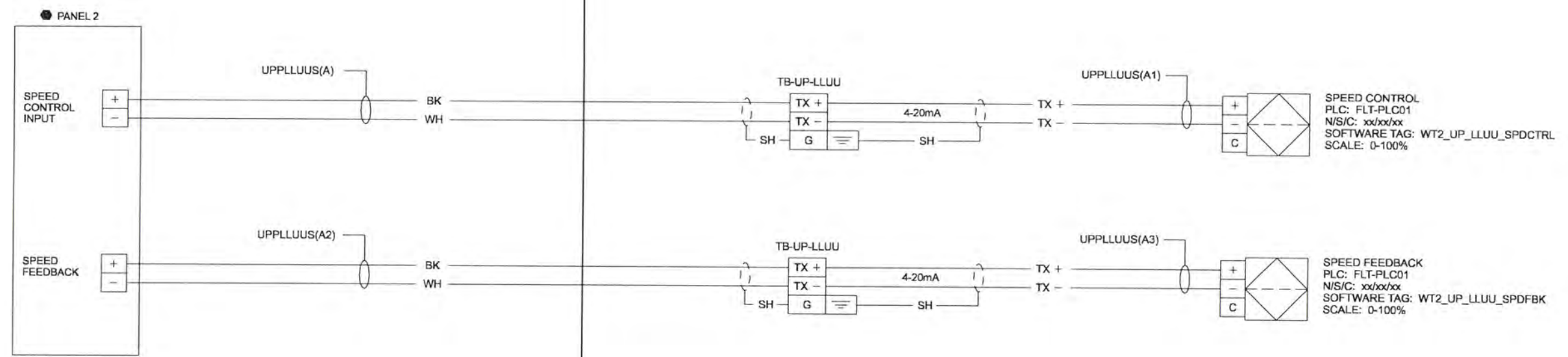
WIRING DIAGRAM
 FLUORIDE FEEDER SPEED
 ANALOG LOOP

SHEET	46
DWG	08-1-26
DATE	APRIL 2004
PROJ	170368

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FIELD

PANEL 1



SPEED CONTROL
 PLC: FLT-PLC01
 N/S/C: xx/xx/xx
 SOFTWARE TAG: WT2_UP_LLUII_SPDCTRL
 SCALE: 0-100%

SPEED FEEDBACK
 PLC: FLT-PLC01
 N/S/C: xx/xx/xx
 SOFTWARE TAG: WT2_UP_LLUII_SPDFBK
 SCALE: 0-100%

LOOP	LOOP DESCRIPTION	PANEL 1	PANEL 2
31-0901	SODIUM HYPOCHLORITE PUMP 1	FLT-CP01	31ASD0901
31-0902	SODIUM HYPOCHLORITE PUMP 2	FLT-CP01	31ASD0902
31-0903	SODIUM HYPOCHLORITE PUMP 3	FLT-CP01	31ASD0903
33-0801	ALUMINUM CHLOROHYDRATE PUMP 1	FLT-CP01	33ASD0801
33-0802	ALUMINUM CHLOROHYDRATE PUMP 2	FLT-CP01	33ASD0802
36-0801	SODIUM HYDROXIDE PUMP	FLT-CP01	36ASD0801

RECORD DRAWINGS

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DSGN	JD KANYUCH		6/2006	RECORD DRAWING	DSGN BY APVD DS PARKER
DR	DS PARKER				
CHK	LL WOOD				
APVD	CW MASSIE				
NO.	DATE				

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

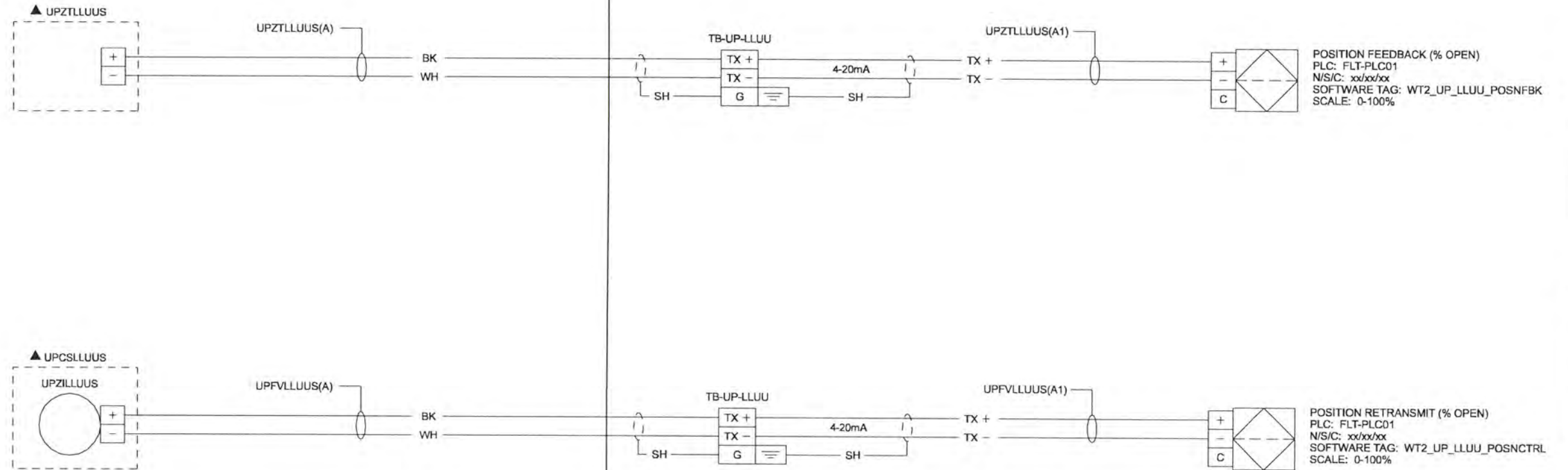
WIRING DIAGRAM
 METERING PUMP SPEED
 ANALOG LOOP

SHEET	47
DWG	08-1-27
DATE	APRIL 2004
PROJ	170368

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FIELD

PANEL



POSITION FEEDBACK (% OPEN)
 PLC: FLT-PLC01
 N/S/C: xx/xx/xx
 SOFTWARE TAG: WT2_UP_LL UU_POSNFBK
 SCALE: 0-100%

POSITION RETRANSMIT (% OPEN)
 PLC: FLT-PLC01
 N/S/C: xx/xx/xx
 SOFTWARE TAG: WT2_UP_LL UU_POSNCTRL
 SCALE: 0-100%

NOTES:

- 1. SEE VAULT FLOW VALVE DISCRETE WIRING DIAGRAM TYPICAL FOR CONTINUATION.

LOOP	LOOP DESCRIPTION	PANEL
72-0401	ALBANY METERING VAULT FLOW VALVE	MVM-CP01

RECORD DRAWINGS

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DSGN	JD KANYUCH	NO.	DATE	RECORD DRAWING	BY	APVD	VERIFICATION
DR	DS PARKER						
CHK	LL WOOD						
APVD	CW MASSIE						

VERIFY SCALE
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

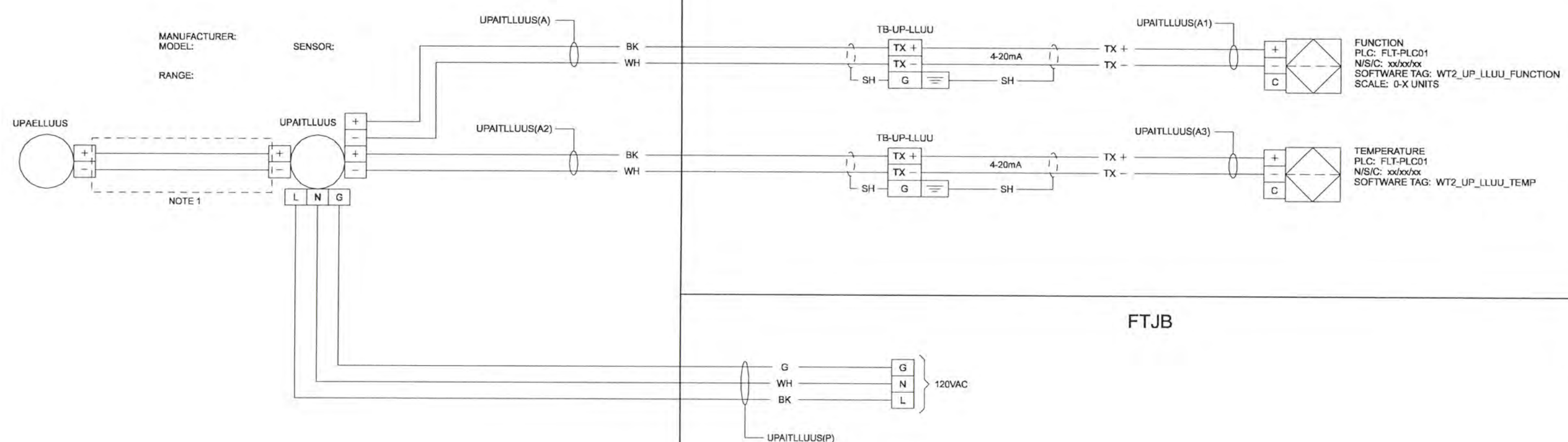
WIRING DIAGRAM
 VALVE POSITION TYPICAL
 ANALOG LOOP

SHEET	48
DWG	08-I-28
DATE	APRIL 2004
PROJ	170368

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FIELD

PANEL



LOOP	LOOP DESCRIPTION	FUNCTION	PANEL	FTJB	EXCEPTIONS
50-1801	FILTRATION BLDG FINISHED WATER pH ANALYZER	PH	FLT-CP01	FLT-FTJB07	NO TEMP
50-0601	FILTRATION BLDG FINISHED WATER CHLORINE ANALYZER	CL2	FLT-CP01	FLT-FTJB07	NO TEMP
50-1701	FILTRATION BLDG FINISHED WATER CONDUCTIVITY ANALYZER	COND	FLT-CP01	FLT-FTJB07	NO TEMP
50-1601	FILTRATION BLDG FILTRATE WATER FLUORIDE ANALYZER	FL	FLT-CP01	FLT-FTJB06	NO TEMP, AE INTEGRAL TO AIT
11-2901	RAW WATER PH / TEMP ANALYZER	PH	RWP-CP01	---	XMTR POWERED FROM CP
11-2801	RAW WATER CONDUCTIVITY ANALYZER	COND	RWP-CP01	---	NO TEMP, XMTR POWERED FROM CP

NOTES:
1. WIRE INTERFACE BETWEEN TRANSMITTER AND ELEMENT IS BASED ON A NAMED MANUFACTURER MODEL. INTERFACE WIRING MAY VARY DEPENDING ON MANUFACTURED PRODUCT.

RECORD DRAWINGS

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CHK	LL WOOD						
APVD	CW MASSIE						

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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

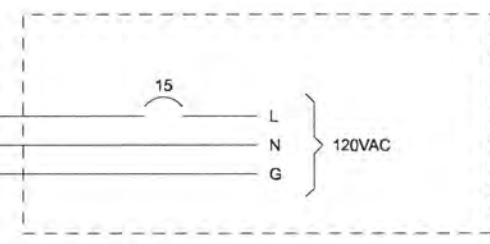
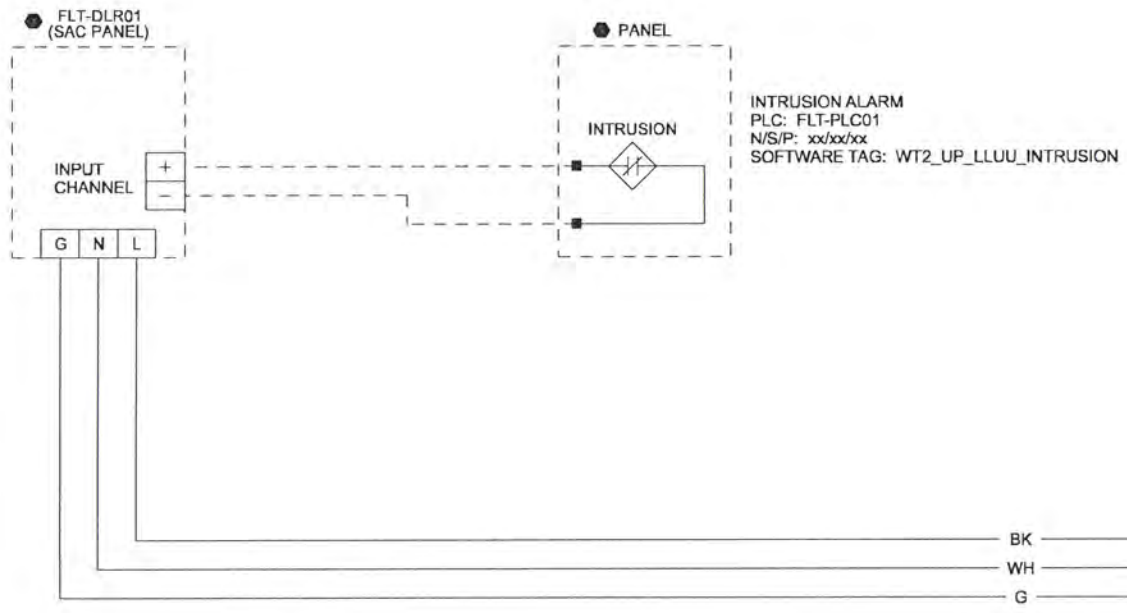
WIRING DIAGRAM
ANALYZER TYPICAL
ANALOG LOOP

SHEET	49
DWG	08-1-29
DATE	APRIL 2004
PROJ	170368

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FIELD

208Y/120V VAC PANEL



LOOP	LOOP DESCRIPTION	208Y/120V VAC PANEL	PANEL
91-0401	FILTRATION BUILDING SECURITY PANEL	FLT-ULP01	FLT-CP01

RECORD DRAWINGS

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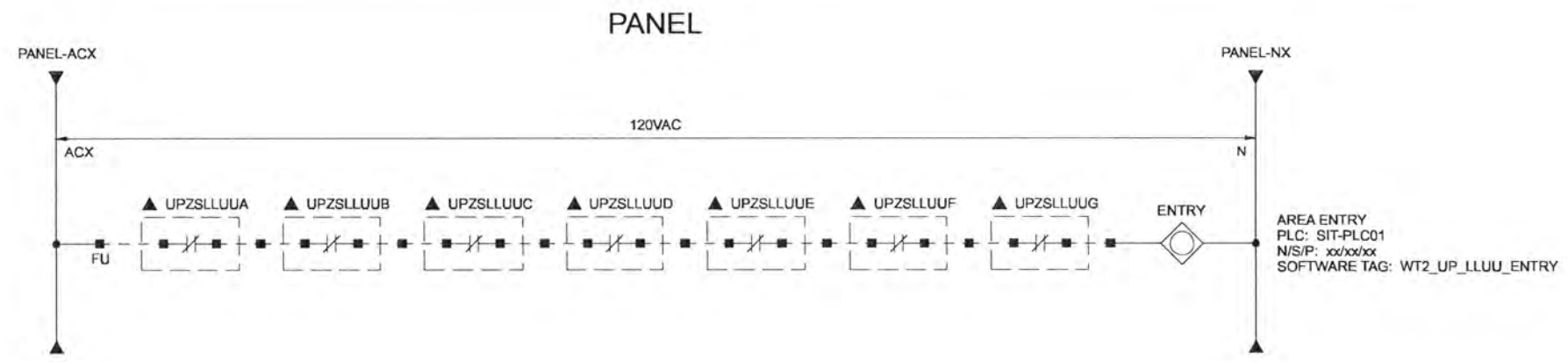


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WIRING DIAGRAM
SAC PANEL TYPICAL
DISCRETE LOOP

SHEET	50
DWG	08-1-30
DATE	APRIL 2004
PROJ	170368

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LOOP	LOOP DESCRIPTION	PANEL	EXCEPTIONS	SIT
11-1901	RAW WATER PUMP STATION BUILDING ENTRY DETECTION	RWP-CP01	DRY CONTACTS (D) THROUGH (G) NOT USED	RWP
20-0901	FILTRATION BLDG LOWER LEVEL ENTRY DETECTION	FLT-CP01	DRY CONTACTS (E) THROUGH (G) NOT USED	FLT
20-0801	FILTRATION BLDG UPPER LEVEL ENTRY DETECTION	FLT-CP01		FLT

RECORD DRAWINGS

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DSGN	JD KANYUCH								
DR	DS PARKER								
CHK	LL WOOD	1	6/2006	RECORD DRAWING	DSGN	BOOK			
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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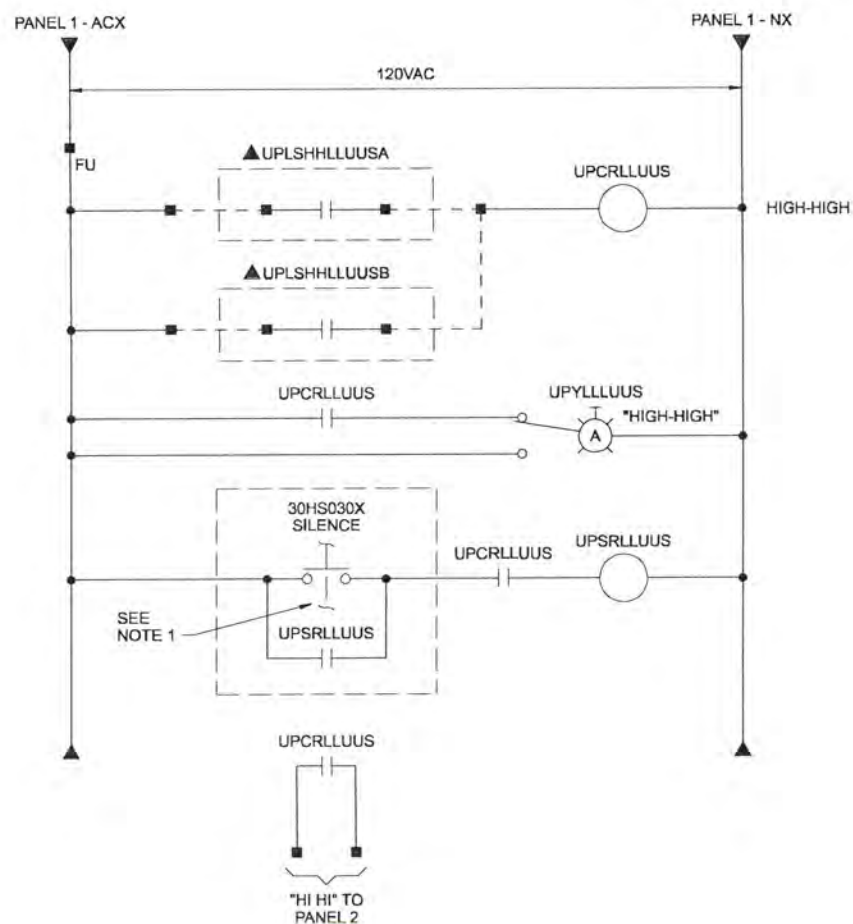
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 ENTRY DETECTION TYPICAL
 DISCRETE LOOP

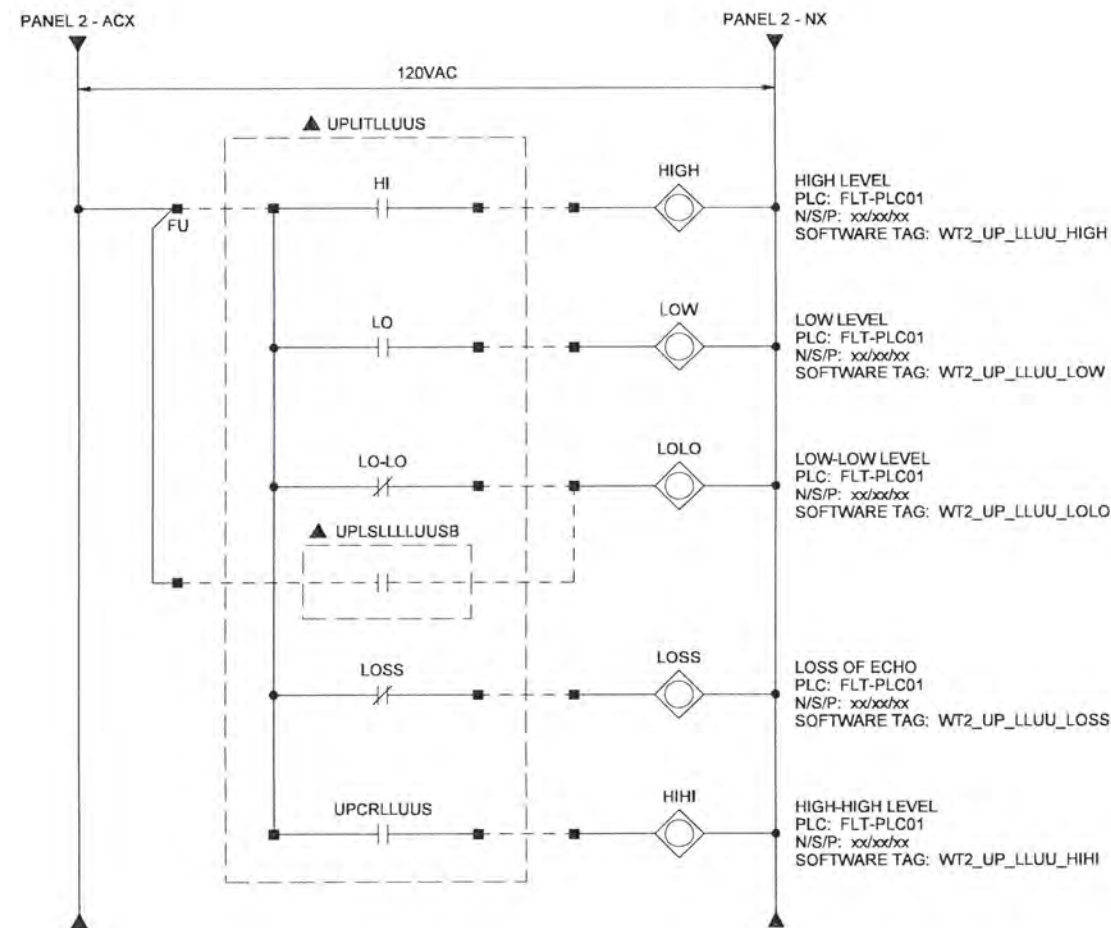
SHEET	51
DWG	08-I-31
DATE	APRIL 2004
PROJ	170368

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PANEL 1



PANEL 2



LOOP	LOOP DESCRIPTION	PANEL 1	PANEL 2	X	EXCEPTIONS
35-0601	SODIUM BISULFITE TANK LEVEL	30LCP0101	FLT-CP01	1	
34-0601	CITRIC ACID TANK LEVEL	30LCP0101	FLT-CP01	1	
33-0201	ALUMINUM CHLOROHYDRATE TANK LEVEL	30LCP0101	FLT-CP01	1	OMIT LOW-LOW LEVEL SWITCH
31-2801	SODIUM HYPOCHLORITE TANK 1 LEVEL	30LCP0102	FLT-CP01	2	
31-2802	SODIUM HYPOCHLORITE TANK 2 LEVEL	30LCP0102	FLT-CP01	2	

NOTES:

- SEE TRUCK UNLOADING PANEL ALARM HORN TYPICAL DISCRETE LOOP FOR MORE INFORMATION.

RECORD DRAWINGS

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CHK	LL WOOD							
APVD	CW MASSIE							

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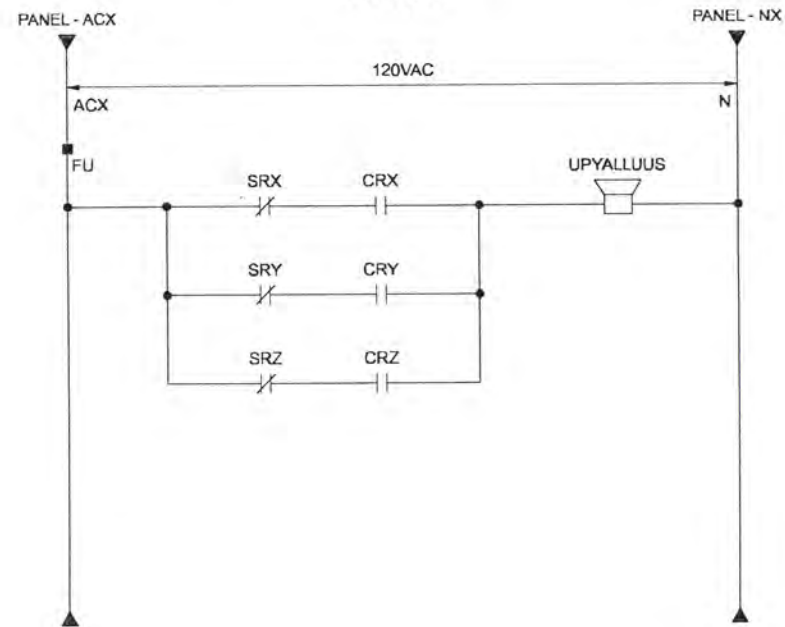


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 CHEMICAL TANK LEVEL TYPICAL
 DISCRETE LOOP

SHEET	52
DWG	08-1-32
DATE	APRIL 2004
PROJ	170368

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LOOP	LOOP DESCRIPTION	PANEL	EXCEPTIONS	CRX	SRX	CRY	SRY	CRZ	SRZ
30-0301	TRUCK UNLOADING PANEL #1 ALARM HORN	30LCP0101		35CR0801	35SR0801	34CR0801	34SR0801	33CR0201	33SR0201
30-0302	TRUCK UNLOADING PANEL #2 ALARM HORN	30LCP0102	OMIT CRZ, SRZ	24CR0101	24SR0101	24CR0102	24SR0102		

NOTE:
SEE CHEMICAL TANK LEVEL TYPICAL DISCRETE LOOP FOR MORE INFORMATION.

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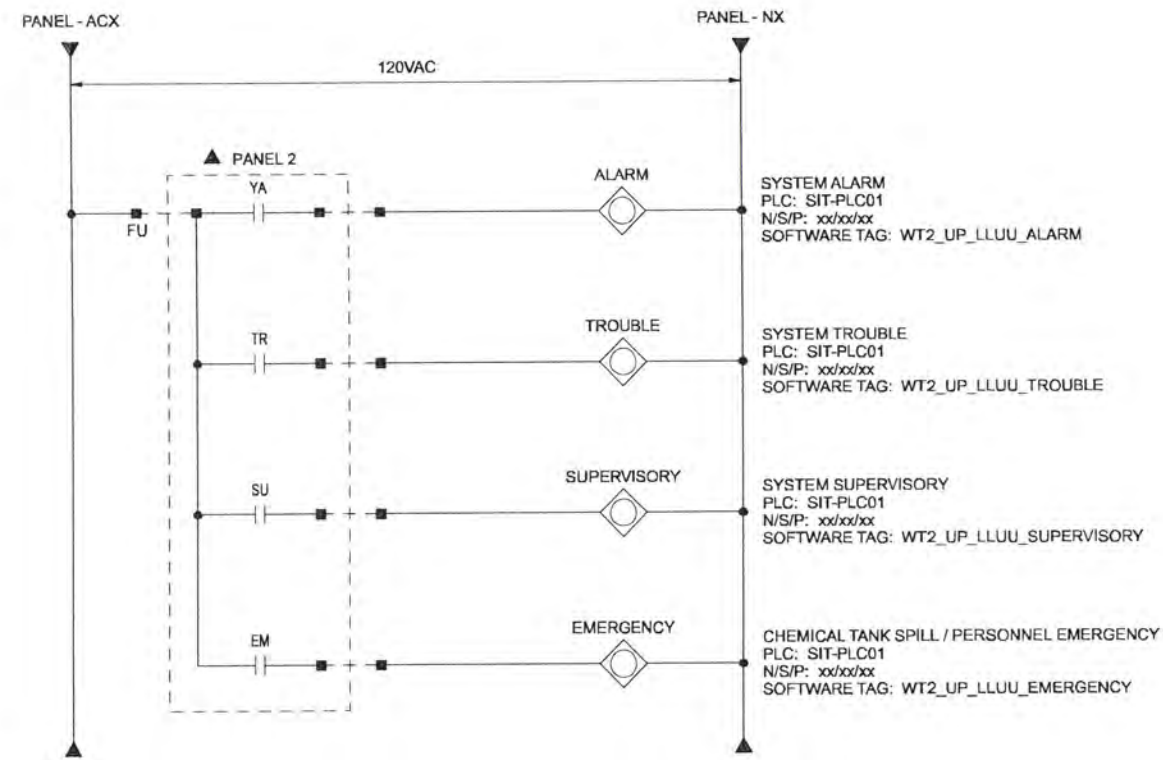
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 TRUCK UNLOADING PANEL ALARM HORN
 TYPICAL DISCRETE LOOP

SHEET	53
DWG	08-1-33
DATE	APRIL 2004
PROJ	170368

A
 B
 C
 D
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PANEL



LOOP	LOOP DESCRIPTION	PANEL	EXCEPTIONS TO TYPICAL	PANEL 2	SIT
91-0901	RWPS FIRE ALARM CONTROL PANEL	RWP-CP01	OMIT EMERGENCY ALARM	RWP-FCP01	RWP
91-1001	FILTRATION BUILDING FIRE ALARM CONTROL PANEL	FLT-CP01		FLT-FCP01	FLT

RECORD DRAWINGS

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DR	DS PARKER							
CHK	LL WOOD							
APVD	CW MASSIE							
NO.	DATE	REVISION	BY	APVD				

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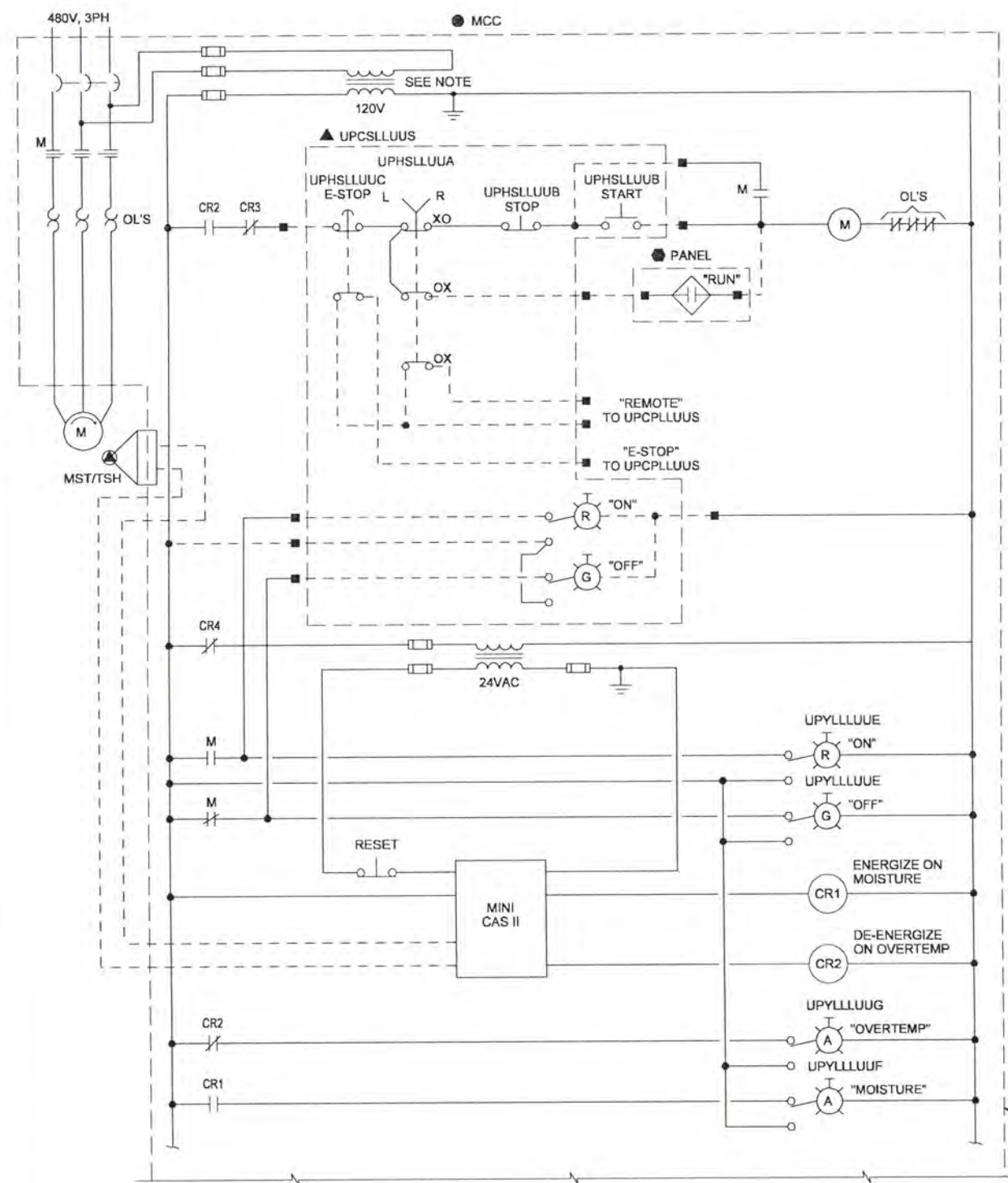
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

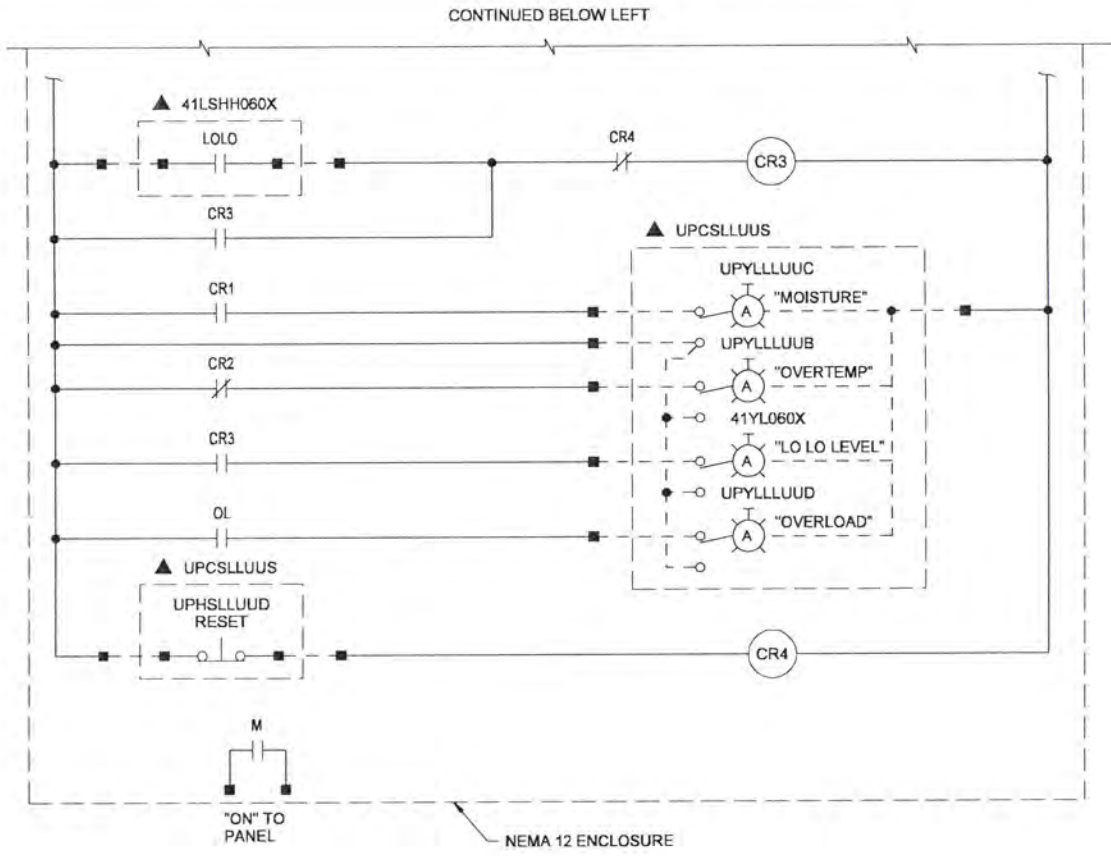
WIRING DIAGRAM
FIRE PANEL TYPICAL
DISCRETE LOOP

SHEET	54
DWG	08-1-34
DATE	APRIL 2004
PROJ	170368

FIELD



PUMP RUN
 PLC: FLT-PLC01
 N/S/P: xx/xx/xx
 SOFTWARE TAG: WT2_UP_LLUU_RUN



LOOP	LOOP DESCRIPTION	MCC	PANEL	X
41-0701	SUPERNATANT PUMP 1	FLT-MCC01	FLT-CP01	1
41-0702	SUPERNATANT PUMP 2	FLT-MCC01	FLT-CP01	2

NOTES:
 1. SIZE CPT TO PROVIDE SUFFICIENT CAPACITY FOR CONTROLS.

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DSGN	JD KANYUCH						
DR	DS PARKER						
CHK	LL WOOD	6/2006	RECORD DRAWING				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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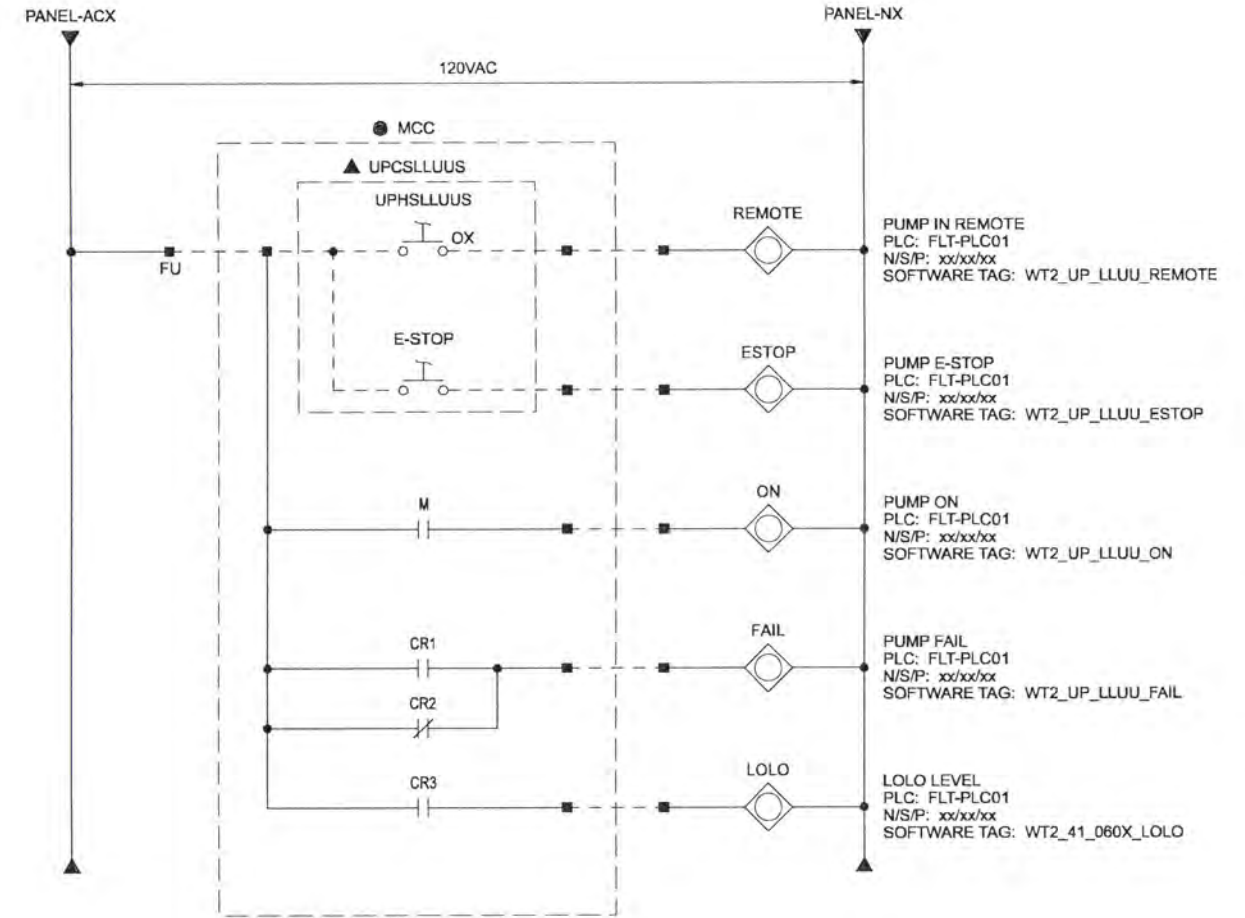
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 SUPERNATANT PUMP TYPICAL
 DISCRETE LOOP 1 OF 2

SHEET	55
DWG	08-I-35
DATE	APRIL 2004
PROJ	170368

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PANEL



LOOP	LOOP DESCRIPTION	MCC	PANEL	X
41-0701	SUPERNATANT PUMP 1	FLT-MCC01	FLT-CP01	1
41-0702	SUPERNATANT PUMP 2		FLT-CP01	2

RECORD DRAWINGS

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DR	DS PARKER						
CHK	LL WOOD	6/2006	RECORD DRAWING				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

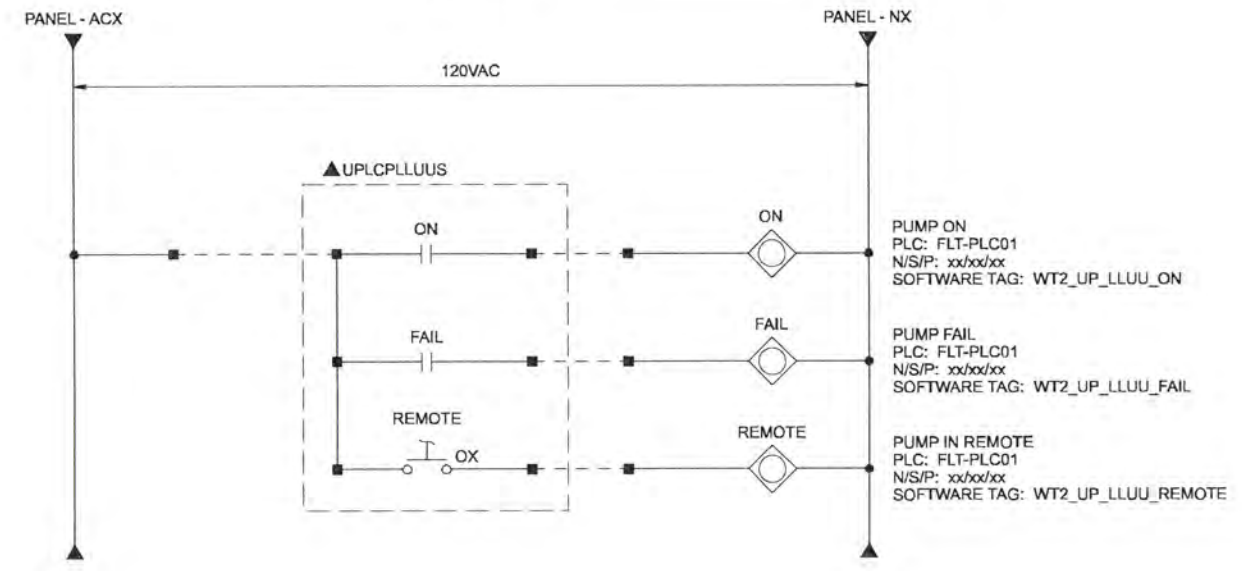
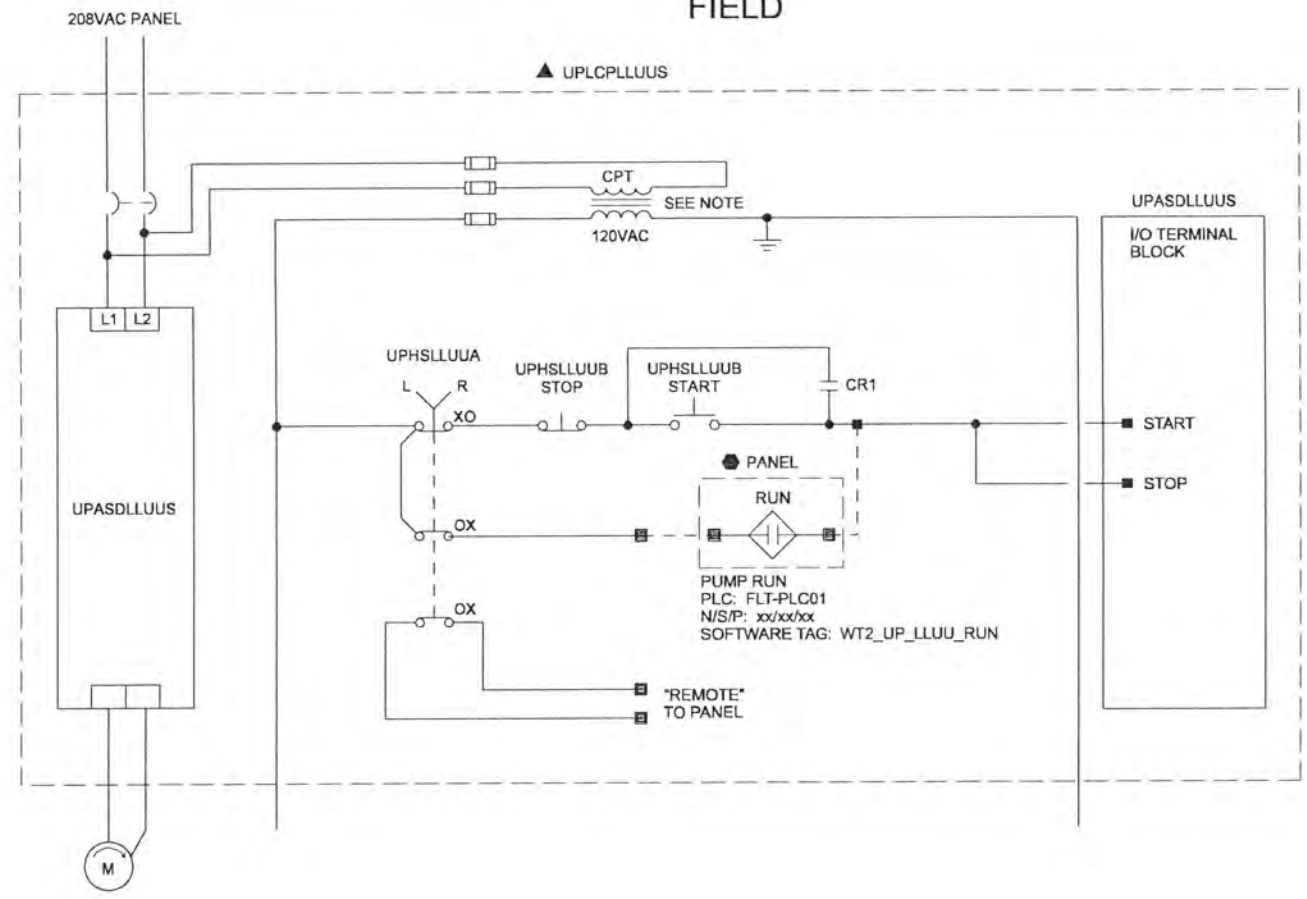
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WIRING DIAGRAM
SUPERNATANT PUMP TYPICAL
DISCRETE LOOP 2 OF 2

SHEET	56
DWG	08-1-36
DATE	APRIL 2004
PROJ	170368



LOOP	LOOP DESCRIPTION	208 VAC PANEL	PANEL
36-0801	SODIUM HYDROXIDE PUMP	FLT-LP11	FLT-CP01
33-0801	ALUMINUM CHLOROHYDRATE PUMP 1	FLT-LP11	FLT-CP01
33-0802	ALUMINUM CHLOROHYDRATE PUMP 2	FLT-LP11	FLT-CP01
31-0901	SODIUM HYPOCHLORITE PUMP 1	FLT-LP11	FLT-CP01
31-0902	SODIUM HYPOCHLORITE PUMP 2	FLT-LP11	FLT-CP01
31-0903	SODIUM HYPOCHLORITE PUMP 3	FLT-LP11	FLT-CP01

NOTES:

1. SEE METERING PUMP ANALOG WIRING DIAGRAM TYPICAL FOR CONTINUATION.

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DR	DS PARKER						
CHK	LL WOOD	6/2006	RECORD DRAWING	DRB	ESCK		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

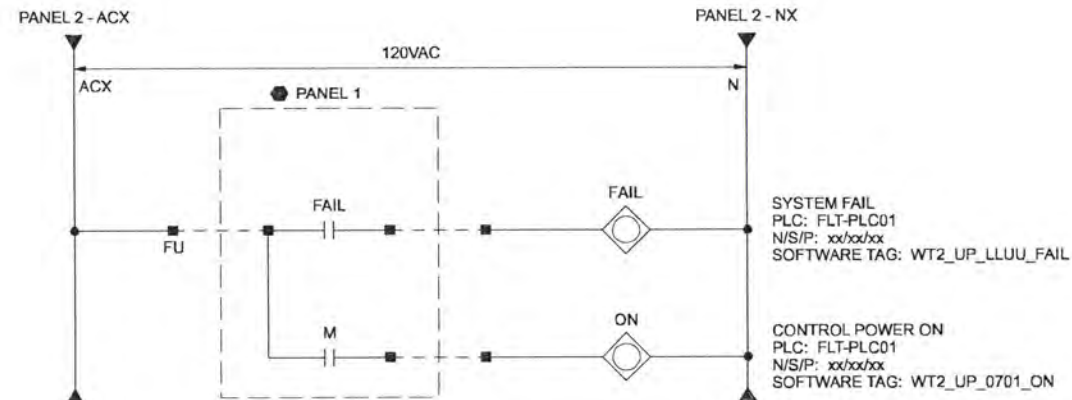
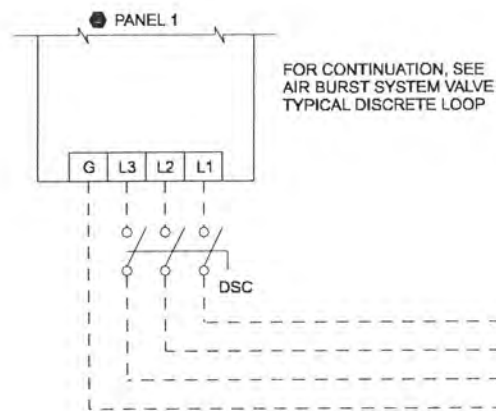
WIRING DIAGRAM
CHEMICAL METERING PUMP TYPICAL
DISCRETE LOOP

SHEET	57
DWG	08-I-37
DATE	APRIL 2004
PROJ	170368

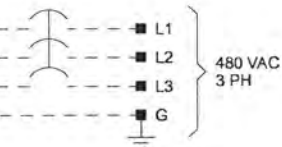
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FIELD

PANEL 2



480VAC PANEL



LOOP	LOOP DESCRIPTION	480 VAC PANEL	PANEL 2	PANEL 1
10-0201	RAW WATER PUMP STATION AIR BURST SYSTEM	RWP-DP01	RWP-CP01	10LCP0201

RECORD DRAWINGS

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CHK	LL WOOD		
APVD	CW MASSIE		

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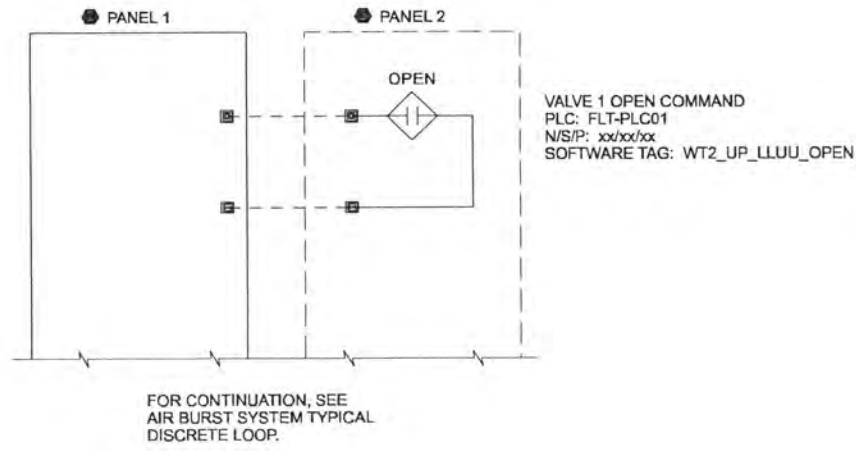
ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WIRING DIAGRAM
AIR BURST SYSTEM TYPICAL
DISCRETE LOOP

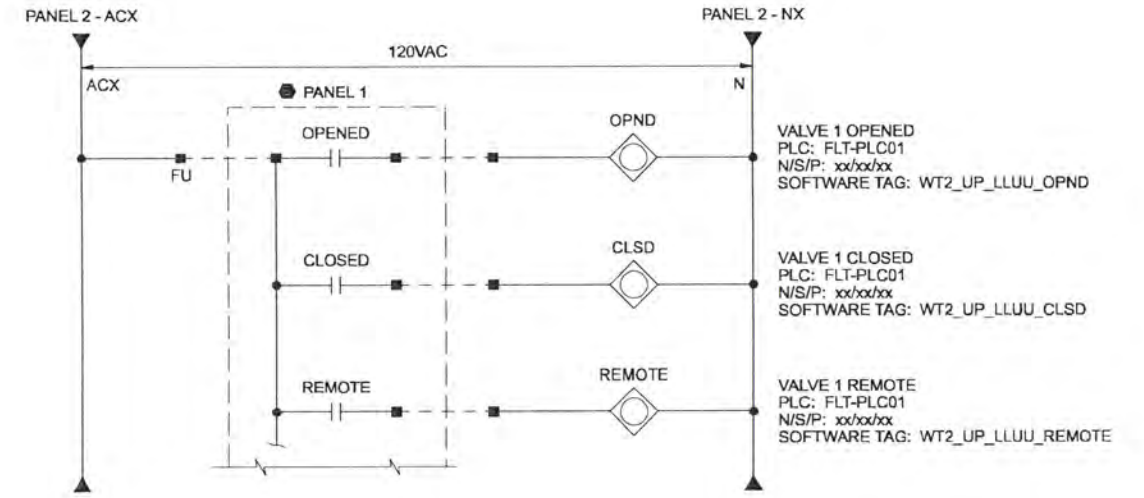
SHEET	58
DWG	08-I-38
DATE	APRIL 2004
PROJ	170368

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FIELD



PANEL 2



LOOP	LOOP DESCRIPTION	PANEL 2	PANEL 1
10-0601	AIR BURST SYSTEM VALVE 1	RWP-CP01	10LCP0201
10-0602	AIR BURST SYSTEM VALVE 2	RWP-CP01	10LCP0201
10-0603	AIR BURST SYSTEM VALVE 3	RWP-CP01	10LCP0201
10-0604	AIR BURST SYSTEM VALVE 4	RWP-CP01	10LCP0201

RECORD DRAWINGS

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DSGN	JD KANYUCH	6/2006	RECORD DRAWING	NO.	DATE	REVISION	BY	APVD
DR	DS PARKER							
CHK	LL WOOD							
APVD	CW MASSIE							

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

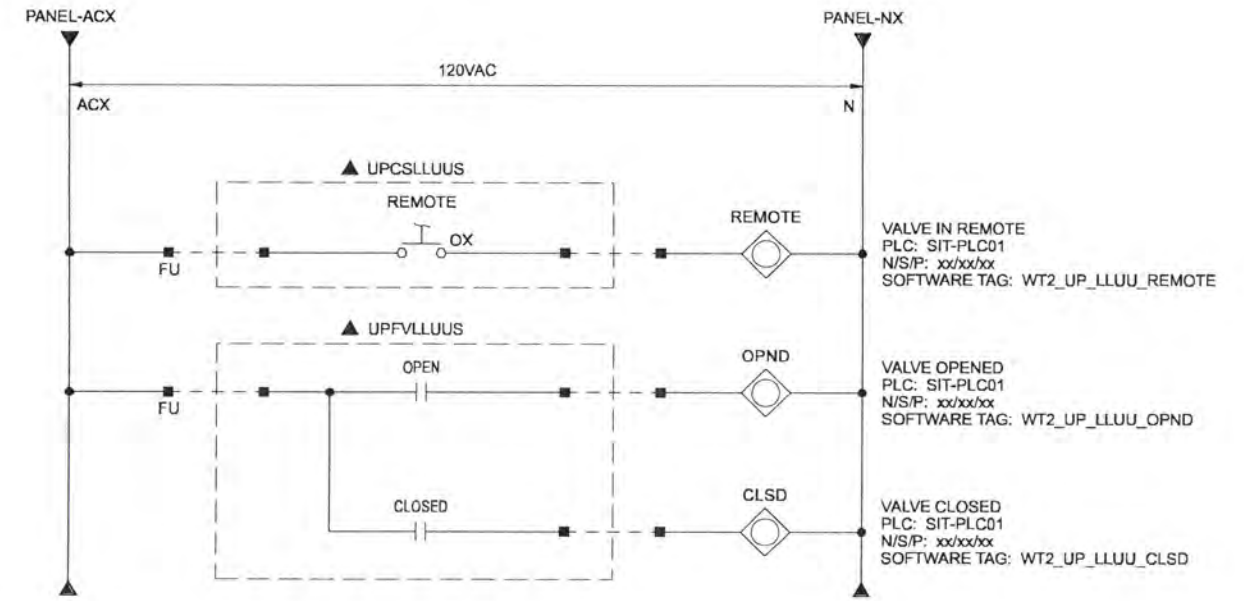
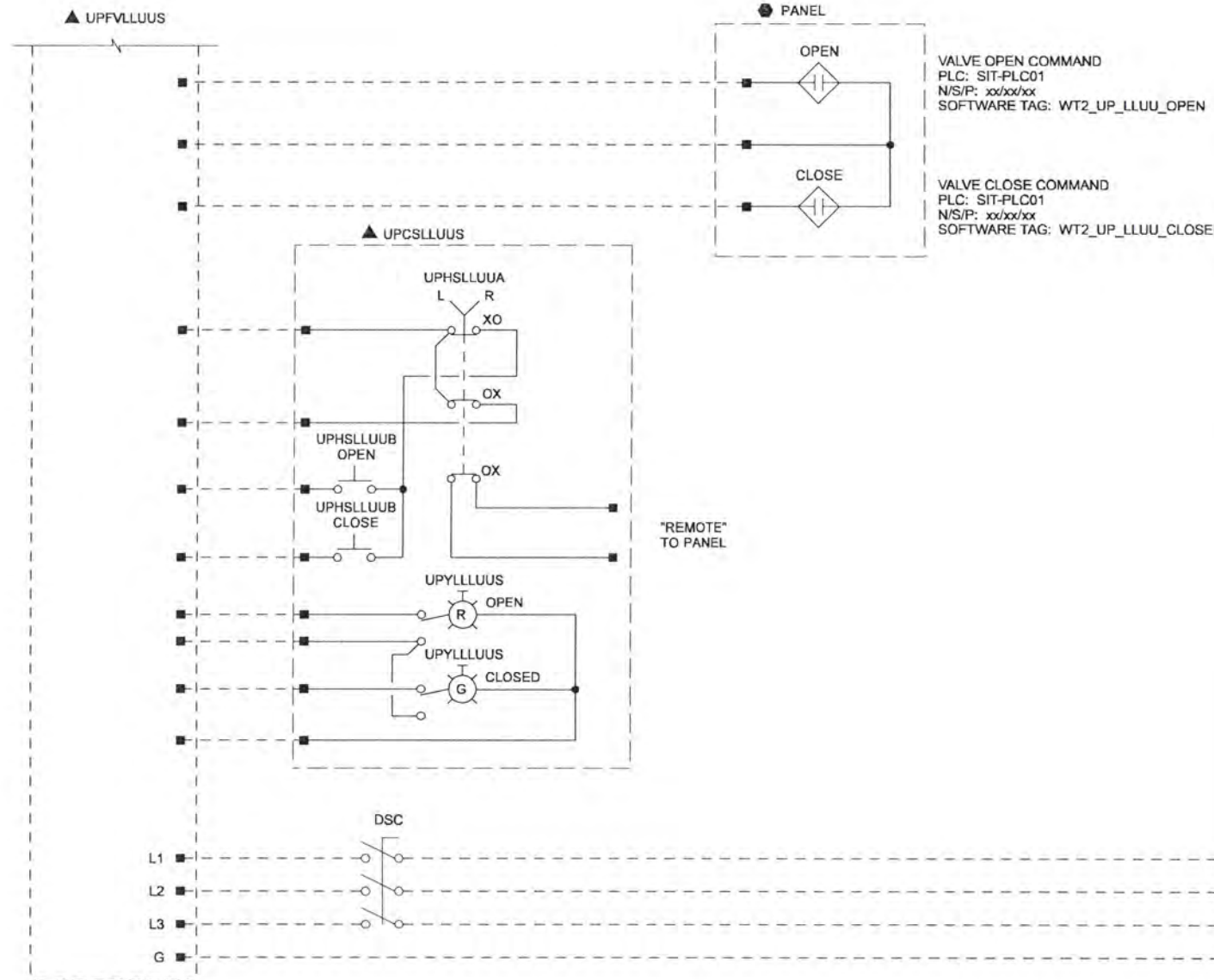
WIRING DIAGRAM
 AIR BURST SYSTEM VALVE TYPICAL
 DISCRETE LOOP

SHEET	59
DWG	08-1-39
DATE	APRIL 2004
PROJ	170368

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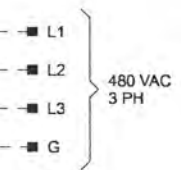
FIELD

PANEL



TJB

LOOP	LOOP DESCRIPTION	TJB	PANEL	SIT	EXCEPTIONS
11-0301	RAW WATER PUMP STATION INTAKE VALVE 1	RWP-TJB01A	RWP-CP01	RWP	---
11-0302	RAW WATER PUMP STATION INTAKE VALVE 2	RWP-TJB01A	RWP-CP01	RWP	---
11-0303	RAW WATER PUMP STATION INTAKE VALVE 3	RWP-TJB01B	RWP-CP01	RWP	---
11-0304	RAW WATER PUMP STATION INTAKE VALVE 4	RWP-TJB01B	RWP-CP01	RWP	---
11-0501	SETTLING CHAMBER INLET VALVE 1	RWP-TJB01A	RWP-CP01	RWP	---
11-0502	SETTLING CHAMBER INLET VALVE 2	RWP-TJB01B	RWP-CP01	RWP	---
50-0501	FINISHED WATER FLOW VALVE	FLT-DP01	FLT-CP01	FLT	NO CS, REMOTE STATUS FROM ACTUATOR



RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	JD KANYUCH
DR	DS PARKER
CHK	LL WOOD
APVD	CW MASSIE

NO.	6/2006
DATE	

RECORD DRAWING

REVISION

BY APVD

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CH2MHILL

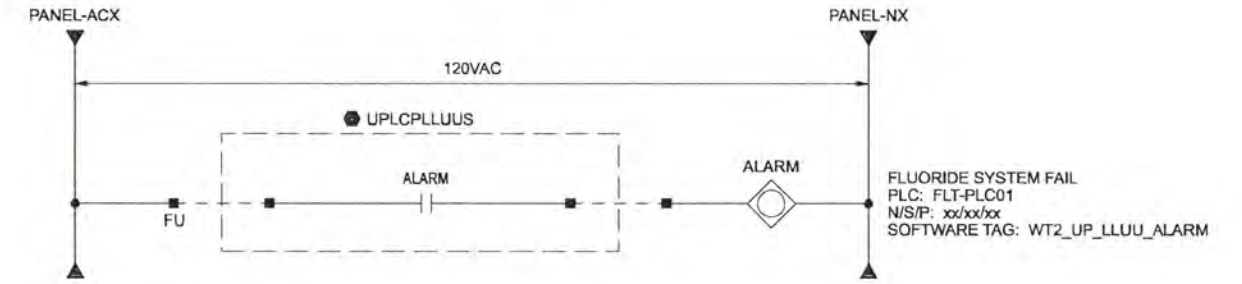
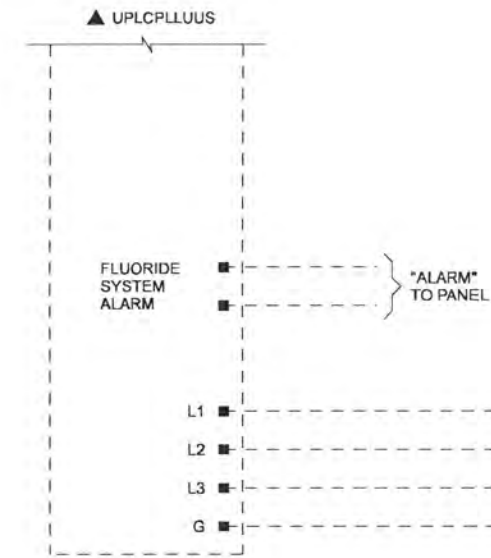
ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WIRING DIAGRAM
OPEN/CLOSE VALVE TYPICAL
DISCRETE LOOP

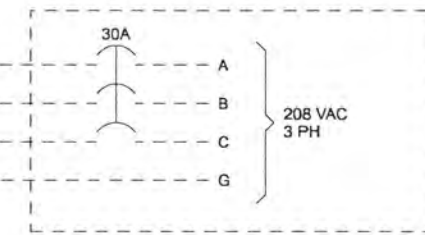
SHEET	60
DWG	08-1-40
DATE	APRIL 2004
PROJ	170368

FIELD

PANEL



208VAC PANEL



LOOP	LOOP DESCRIPTION	PANEL	208VAC PANEL
32-1201	FLUORIDE SYSTEM CONTROL PANEL	FLT-CP01	FLT-LP11

NOTES:
1. SEE DRAWINGS 08-I-42, 08-I-43, 08-I-44 AND 08-I-26 FOR CONTINUATION OF FLUORIDE LOCAL CONTROL PANEL.

RECORD DRAWINGS

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DSGN	JD KANYUCH	NO.	DATE	RECORD DRAWING	BY	APVD
DR	DS PARKER					
CHK	LL WOOD					
APVD	CW MASSIE					

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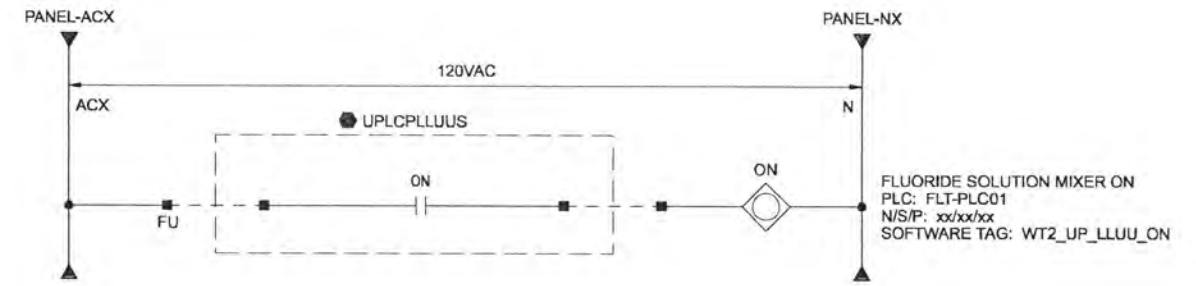
ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WIRING DIAGRAM
FLUORIDE SYSTEM
DISCRETE LOOP

SHEET	61
DWG	08-I-41
DATE	APRIL 2004
PROJ	170368

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PANEL



LOOP	LOOP DESCRIPTION	PANEL
32-1001	FLUORIDE SYSTEM SOLUTION MIXER	FLT-CP01

- NOTES:
- SEE DRAWINGS 08-I-41, 08-I-43, 08-I-44 AND 08-I-28 FOR CONTINUATION OF FLUORIDE LOCAL CONTROL PANEL.

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	JD KANYUCH		6/2006	RECORD DRAWING		NO. DATE REVISION BY APVD
DR	DS PARKER					
CHK	LL WOOD					
APVD	CW MASSIE					

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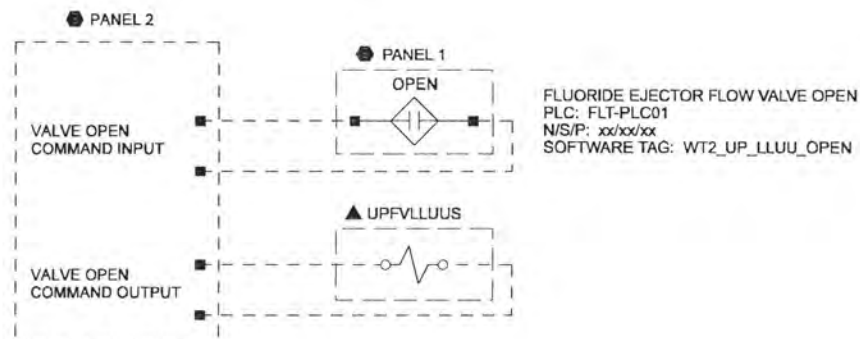


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 FLUORIDE SOLUTION MIXER TYPICAL
 DISCRETE LOOP

SHEET	62
DWG	08-I-42
DATE	APRIL 2004
PROJ	170368

FIELD



LOOP	LOOP DESCRIPTION	PANEL 1	PANEL 2
32-1401	FLUORIDE SYSTEM EJECTOR FLOW VALVE	FLT-CP01	32LCP1201

NOTES:
 1. SEE DRAWINGS 08-1-41, 08-1-42, 08-1-44 AND 08-1-28 FOR CONTINUATION OF FLUORIDE LOCAL CONTROL PANEL.

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	JD KANYUCH						
DR	DS PARKER						
CHK	LL WOOD	6/2006	RECORD DRAWING				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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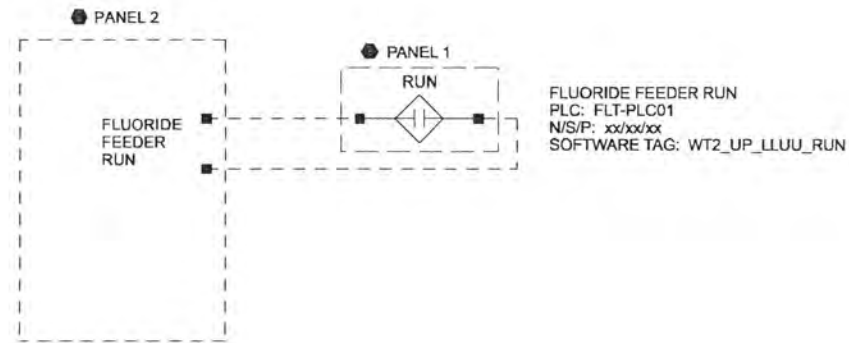


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

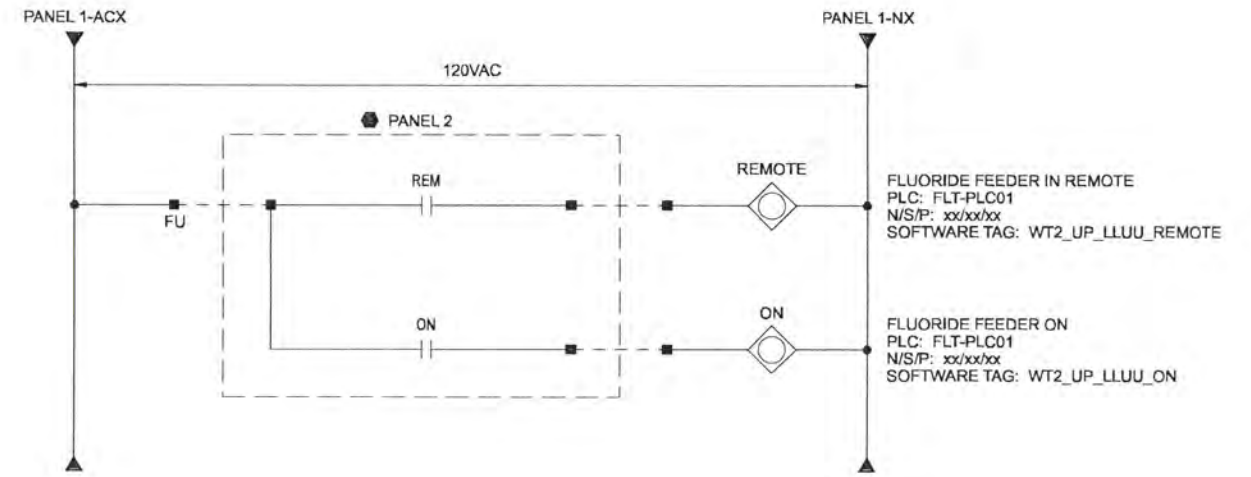
WIRING DIAGRAM
 FLUORIDE EJECTOR FLOW VALVE
 DISCRETE LOOP

SHEET	63
DWG	08-1-43
DATE	APRIL 2004
PROJ	170368

FIELD



PANEL 1



LOOP	LOOP DESCRIPTION	PANEL 1	PANEL 2
32-0301	FLUORIDE FEEDER	FLT-CP01	32L.CP0201

NOTES:
1. SEE DRAWINGS 08-I-41, 08-I-42, 08-I-43 AND 08-I-28 FOR CONTINUATION OF FLUORIDE LOCAL CONTROL PANEL.

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	JD KANYUCH						
DR	DS PARKER						
CHK	LL WOOD	6/2006	RECORD DRAWING				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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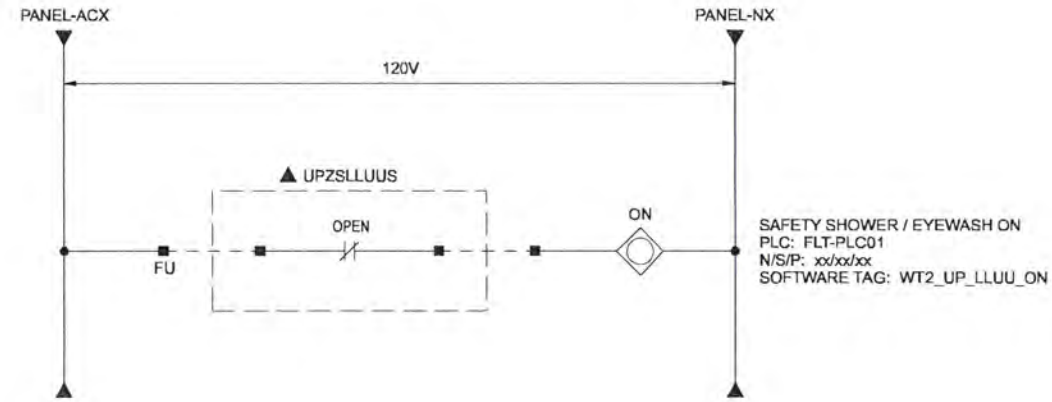
CH2MHILL

ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WIRING DIAGRAM
FLUORIDE FEEDER TYPICAL
DISCRETE LOOP

SHEET	64
DWG	08-I-44
DATE	APRIL 2004
PROJ	170368

PANEL



LOOP	LOOP DESCRIPTION	PANEL
93-0101	SAFETY SHOWER	FLT-CP01
93-0201	SAFETY EYE WASH	FLT-CP01
93-0301	SAFETY SHOWER	FLT-CP01
93-0401	SAFETY EYE WASH	FLT-CP01
93-0501	SAFETY SHOWER	FLT-CP01
93-0601	SAFETY EYE WASH	FLT-CP01
93-0701	SAFETY SHOWER	FLT-CP01
93-0801	SAFETY EYE WASH	FLT-CP01
93-0901	SAFETY SHOWER	FLT-CP01
93-1001	SAFETY EYE WASH	FLT-CP01
93-1101	SAFETY SHOWER	FLT-CP01
93-1201	SAFETY EYE WASH	FLT-CP01
93-1301	SAFETY SHOWER	FLT-CP01

RECORD DRAWINGS

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DSGN	JD KANYUCH				
DR	DS PARKER				
CHK	LL WOOD	6/2006	RECORD DRAWING	DATE	
APVD	CW MASSIE	NO.	DATE	REVISION	BY

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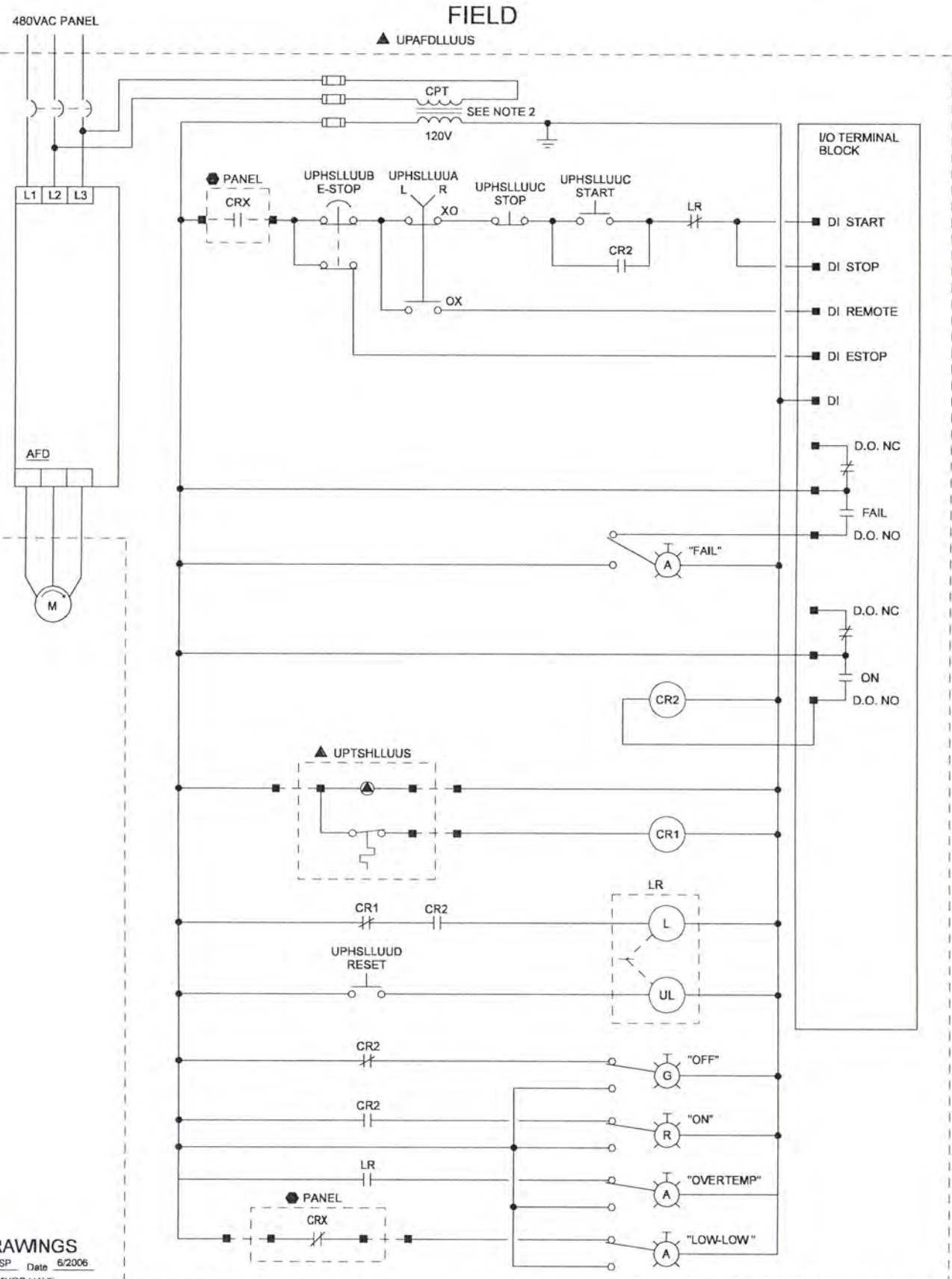


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 SAFETY SHOWER AND EYEWASH TYPICAL
 DISCRETE LOOP

SHEET	65
DWG	08-1-45
DATE	APRIL 2004
PROJ	170368

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LOOP	LOOP DESCRIPTION	PANEL	480VAC PANEL
11-1101	RAW WATER PUMP STATION PUMP 1	RWP-CP01	RWP-SWB01
11-1102	RAW WATER PUMP STATION PUMP 2	RWP-CP01	RWP-SWB01
11-1103	RAW WATER PUMP STATION PUMP 3	RWP-CP01	RWP-SWB01
11-1104	RAW WATER PUMP STATION PUMP 4	RWP-CP01	RWP-SWB01

- NOTES:
- CONTROL DIAGRAM SHOWN ILLUSTRATES A CONTROL CONCEPT BASED ON A SPECIFIC MANUFACTURER'S DEVICES. (I.E. STARTER, AFD, DEVICE NET INTERFACE, ETC.) DIAGRAM MAY NEED TO BE MODIFIED BY THE ELECTRICAL CONTRACTOR OR SUPPLIER TO RETAIN THIS CONTROL CONCEPT AND TO MEET THE REQUIREMENTS OF THE MANUFACTURER SELECTED FOR THE PROJECT.
 - SIZE CPT TO PROVIDE SUFFICIENT CAPACITY FOR CONTROLS AND SPACE HEATER.

RECORD DRAWINGS

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DSGN	JD KANYUCH								
DR	DS PARKER								
CHK	LL WOOD	6/2006	RECORD DRAWING						
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			



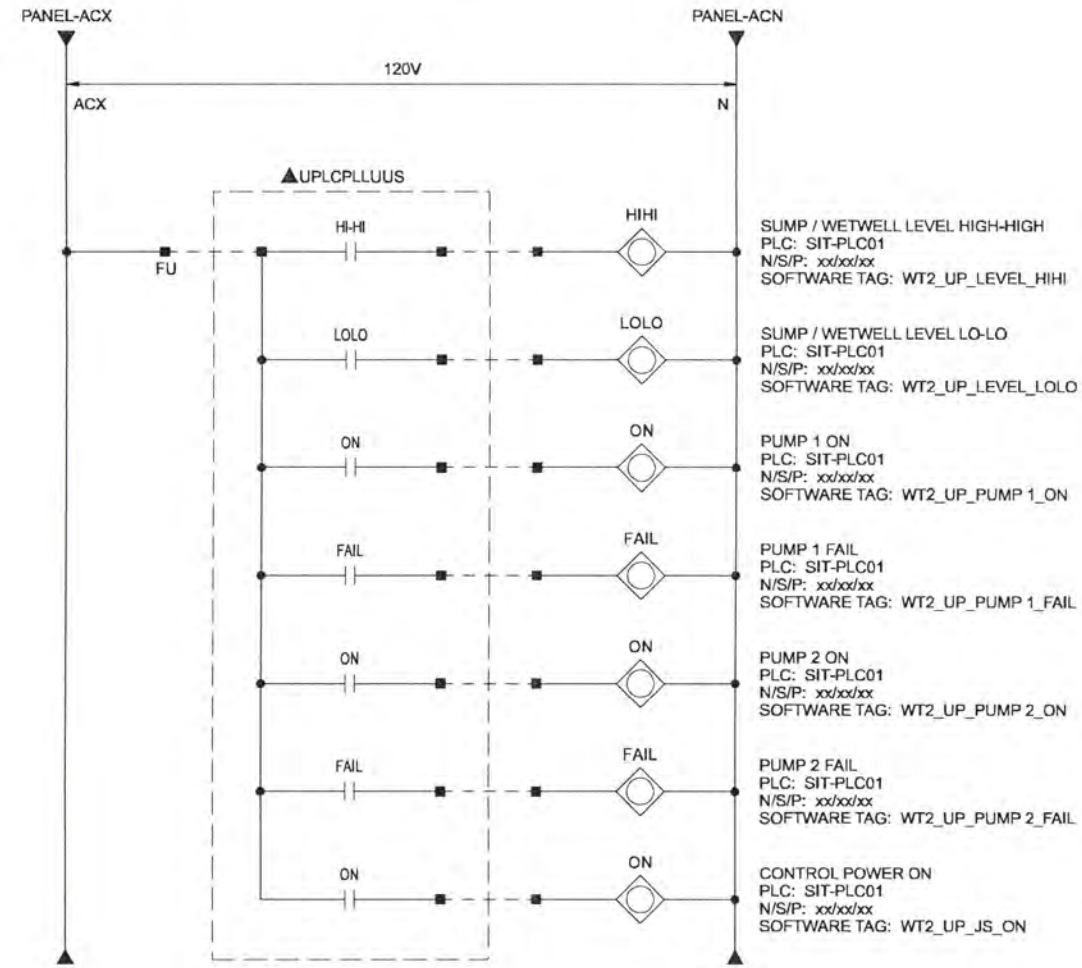
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 RAW WATER PUMP TYPICAL
 DISCRETE LOOP

SHEET	66
DWG	08-1-46
DATE	APRIL 2004
PROJ	170368

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PANEL



HI-HI SUMP / WETWELL LEVEL HIGH-HIGH
PLC: SIT-PLC01
N/S/P: xx/xx/xx
SOFTWARE TAG: WT2_UP_LEVEL_HIHI

LOLO SUMP / WETWELL LEVEL LO-LO
PLC: SIT-PLC01
N/S/P: xx/xx/xx
SOFTWARE TAG: WT2_UP_LEVEL_LOLO

ON PUMP 1 ON
PLC: SIT-PLC01
N/S/P: xx/xx/xx
SOFTWARE TAG: WT2_UP_PUMP 1_ON

FAIL PUMP 1 FAIL
PLC: SIT-PLC01
N/S/P: xx/xx/xx
SOFTWARE TAG: WT2_UP_PUMP 1_FAIL

ON PUMP 2 ON
PLC: SIT-PLC01
N/S/P: xx/xx/xx
SOFTWARE TAG: WT2_UP_PUMP 2_ON

FAIL PUMP 2 FAIL
PLC: SIT-PLC01
N/S/P: xx/xx/xx
SOFTWARE TAG: WT2_UP_PUMP 2_FAIL

ON CONTROL POWER ON
PLC: SIT-PLC01
N/S/P: xx/xx/xx
SOFTWARE TAG: WT2_UP_JS_ON

LOOP	LOOP DESCRIPTION	PANEL	SIT	LEVEL	PUMP 1	PUMP 2	JS
11-2000	RAW WATER PUMP STATION SUMP PUMPS	RWP-CP01	RWP	2101	2001	2002	2401
80-0100	SANITARY SEWER GRINDER PUMPS	FLT-CP01	FLT	0201	0101	0102	0301
72-0600	ALBANY METERING VAULT SUMP PUMPS	MVM-CP01	FLT	1101	0601	0602	1201
71-0500	MILLERSBURG METERING VAULT SUMP PUMPS	MVM-CP01	FLT	1101	0501	0502	0801
20-1100	RAW WATER METERING VAULT SUMP PUMPS	FLT-CP01	FLT	1201	1101	1102	1301
71-0500	FINISHED WATER VALVE VAULT SUMP PUMPS	FLT-CP01	FLT	5301	5201	5202	5401

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	JD KANYUCH						
DR	DS PARKER						
CHK	LL WOOD	6/2006	RECORD DRAWING				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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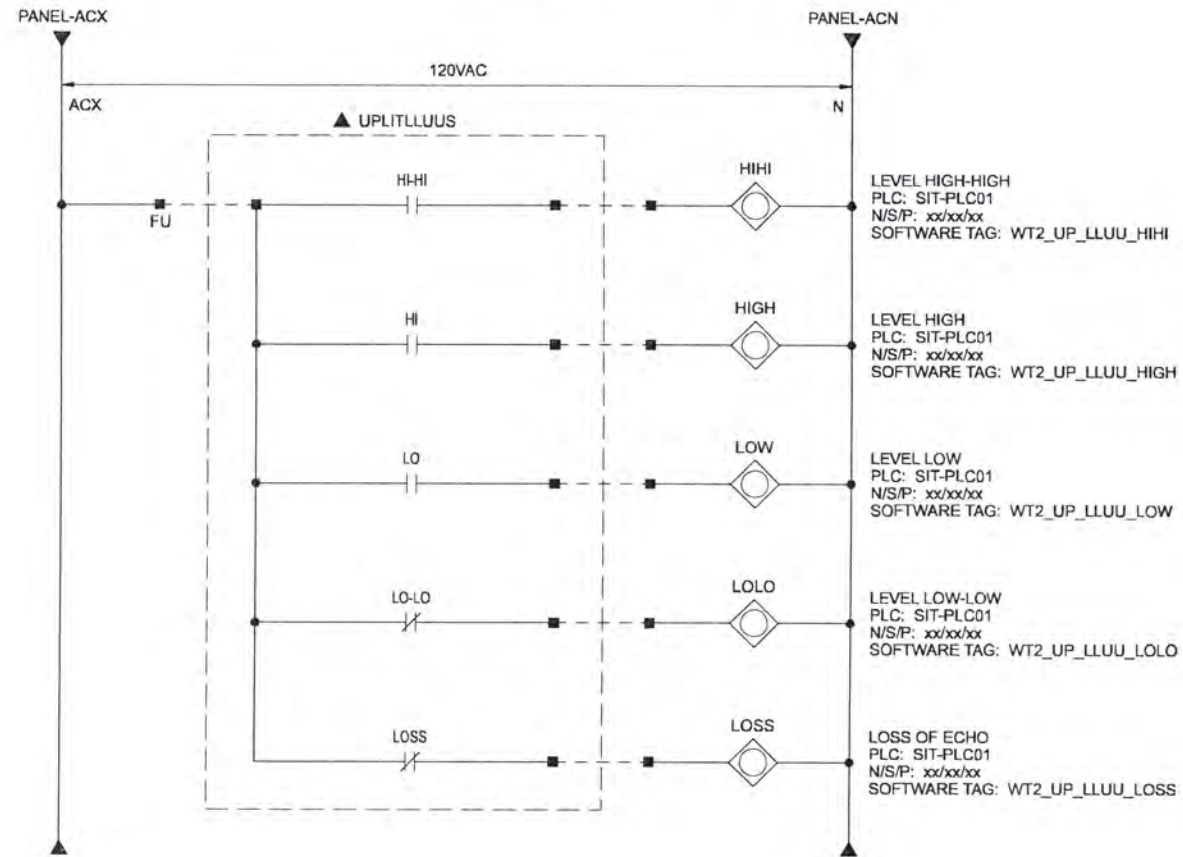


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WIRING DIAGRAM
SUMP PUMP AND GRINDER TYPICAL
DISCRETE LOOP

SHEET	67
DWG	08-1-47
DATE	APRIL 2004
PROJ	170368

PANEL



LOOP	LOOP DESCRIPTION	PANEL	EXCEPTIONS TO TYPICAL	SIT
11-0901	RAW WATER PUMP STATION WETWELL 1 LEVEL	RWP-CP01	NO HI-HI, LO-LO LEVEL SWITCHES	RWP
11-0902	RAW WATER PUMP STATION WETWELL 2 LEVEL	RWP-CP01	NO HI-HI, LO-LO LEVEL SWITCHES	RWP
41-0601	BACKWASH WATER SETTLING BASIN 1 LEVEL	FLT-CP01	LOW-LOW LEVEL SWITCH SEEN AT MCC ONLY.	FLT
41-0602	BACKWASH WATER SETTLING BASIN 2 LEVEL	FLT-CP01	LOW-LOW LEVEL SWITCH SEEN AT MCC ONLY.	FLT
50-0401A	FINISHED WATER RESERVOIR LEVEL	FLT-CP01		FLT
50-0401B	FINISHED WATER RESERVOIR LEVEL	FLT-CP01		FLT

RECORD DRAWINGS

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DSGN	JD KANYUCH	1	6/2006	RECORD DRAWING	NO.	DATE	REVISION	BY	APVD
DR	DS PARKER								
CHK	LL WOOD								
APVD	CW MASSIE								

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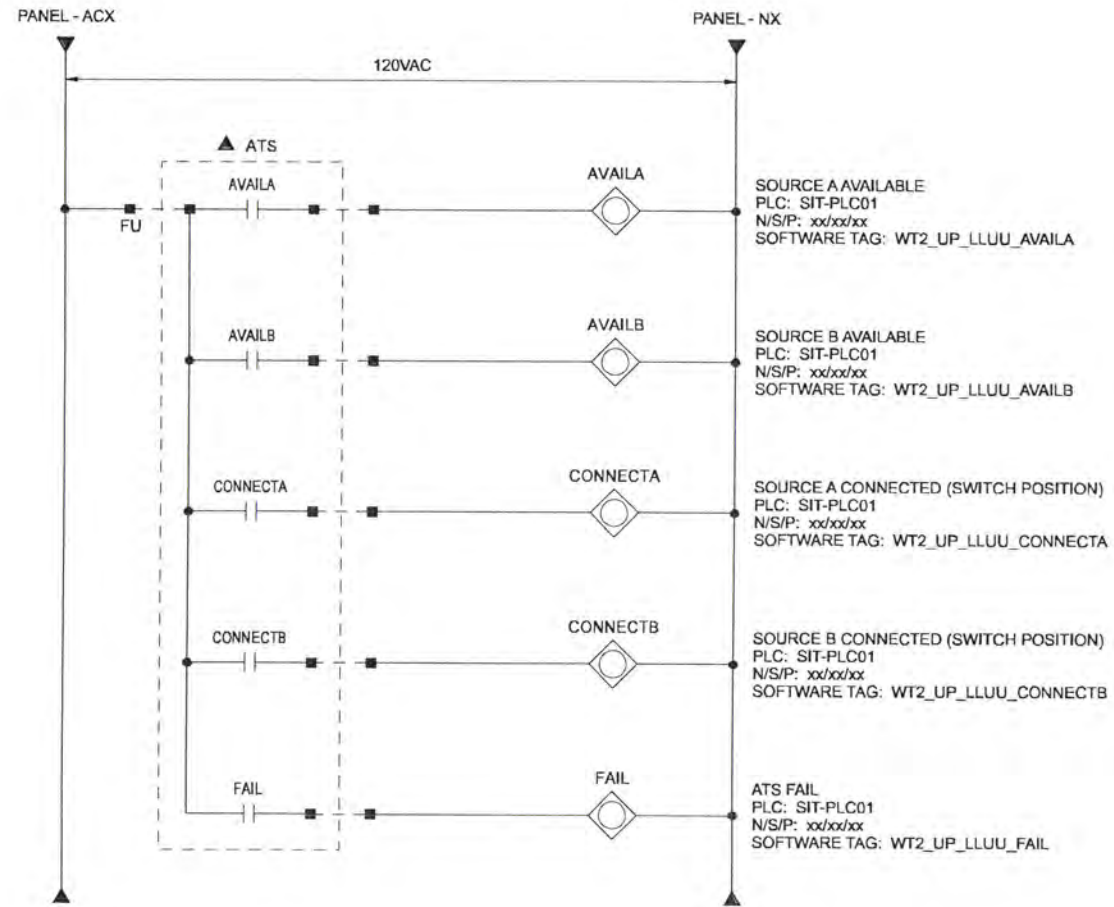


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 ULTRASONIC LEVEL TYPICAL
 DISCRETE LOOP

SHEET	68
DWG	08-I-48
DATE	APRIL 2004
PROJ	170368

PANEL



LOOP	LOOP DESCRIPTION	PANEL	ATS	SIT
91-0701	RAW WATER PUMP STATION ATS RWP-ATS01	RWP-CP01	RWP-ATS01	RWP
91-0801	FILTRATION BLDG ATS FLT-ATS01	FLT-CP01	FLT-ATS01	FLT
91-0802	FILTRATION BLDG ATS FLT-ATS02	FLT-CP01	FLT-ATS02	FLT

RECORD DRAWINGS

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DSGN	JD KANYUCH						
DR	DS PARKER						
CHK	LL WOOD	6/2006	RECORD DRAWING				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

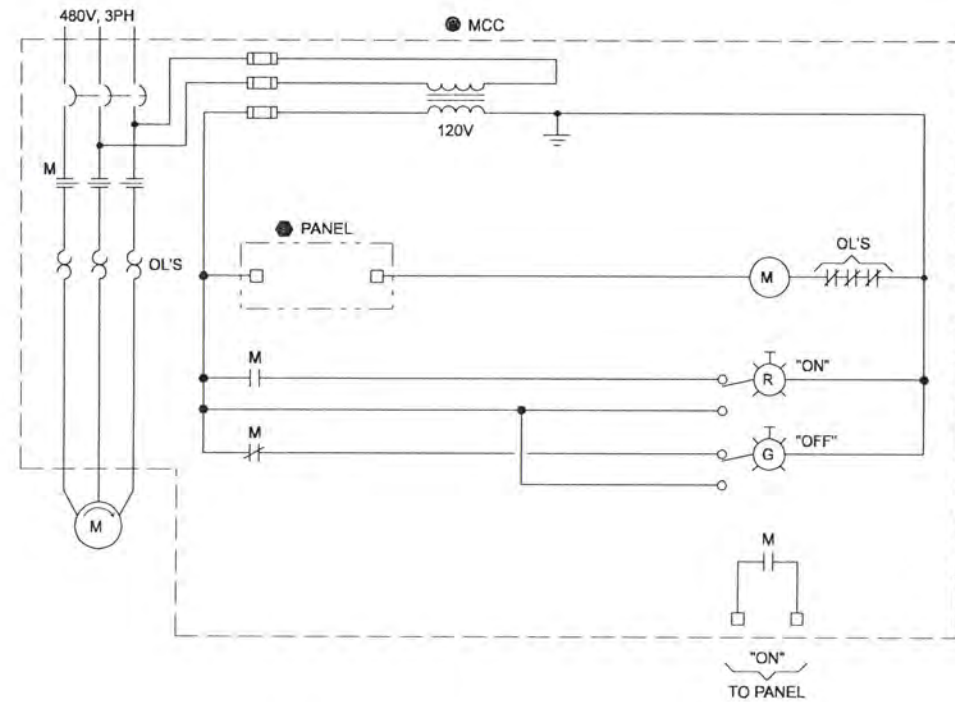
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WIRING DIAGRAM
AUTOMATIC TRANSFER SWITCH TYPICAL
DISCRETE LOOP

SHEET	69
DWG	08-1-49
DATE	APRIL 2004
PROJ	170368



TYPICAL HVAC FAN CONTROL

LOOP	LOOP DESCRIPTION	PANEL	MCC	EXCEPTIONS
92-3201	FILTRATION BLDG BLOWER ROOM SUPPLY FAN	92HCP2000	FLT-MCC01	---
92-6201	FILTRATION BLDG ELECTRICAL ROOM SUPPLY FAN	92HCP2000	FLT-MCC01	---
92-0201	RAW WATER PUMP STATION PUMP ROOM SUPPLY FAN 1	92HCP0000	92MS0201	STANDALONE STARTER, NO MCC
92-0202	RAW WATER PUMP STATION PUMP ROOM SUPPLY FAN 2	92HCP0000	92MS0202	STANDALONE STARTER, NO MCC

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	JD KANYUCH						
DR	DS PARKER						
CHK	LL WOOD	6/2006	RECORD DRAWING				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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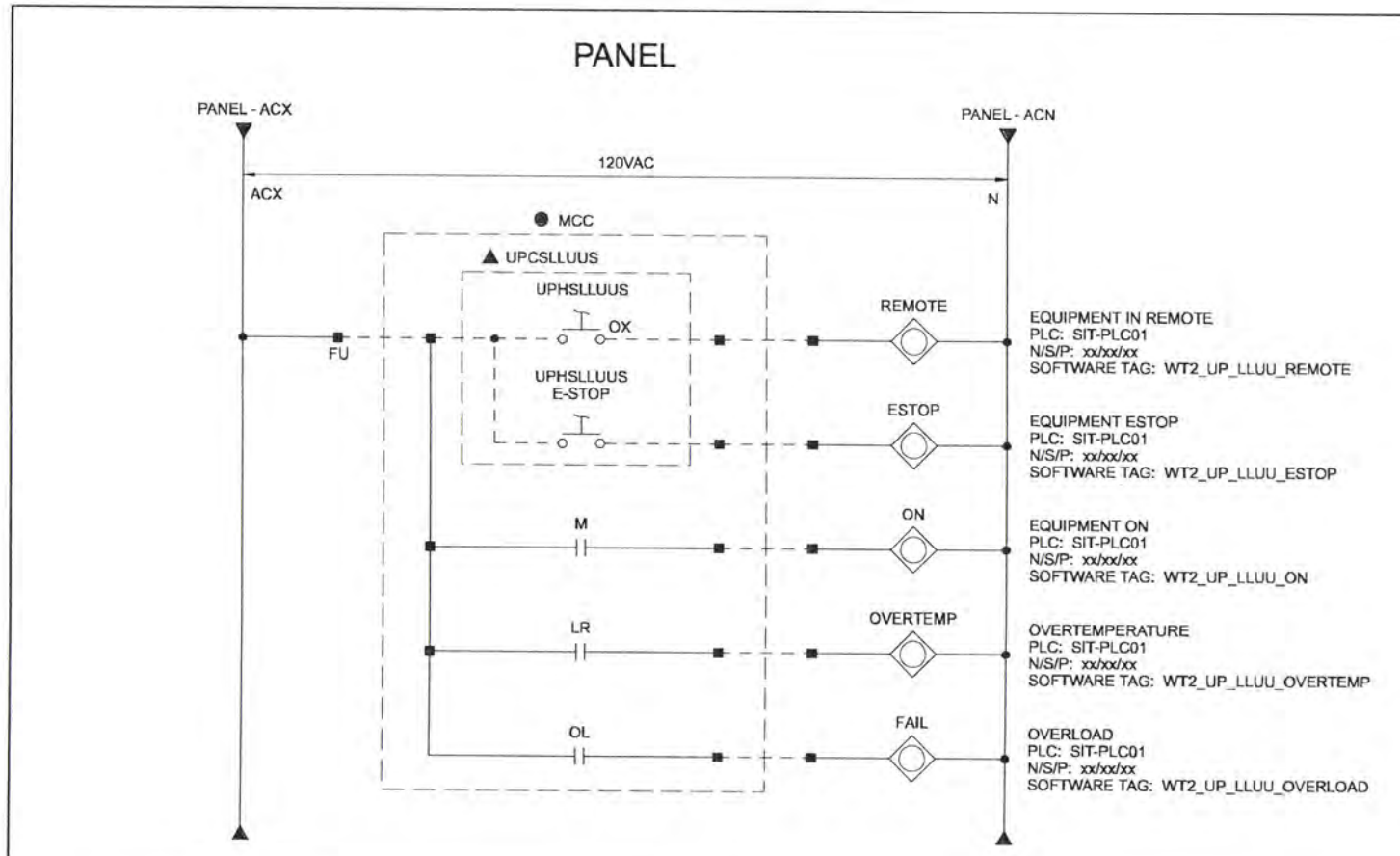
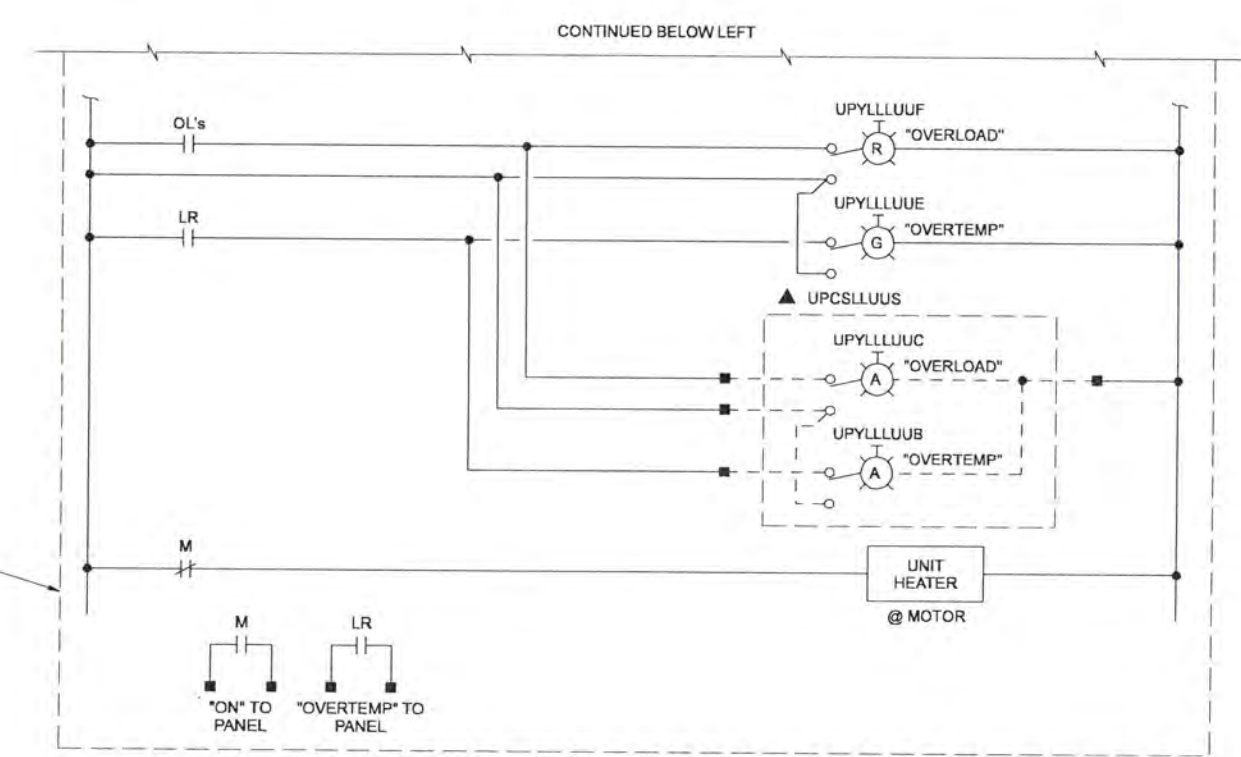
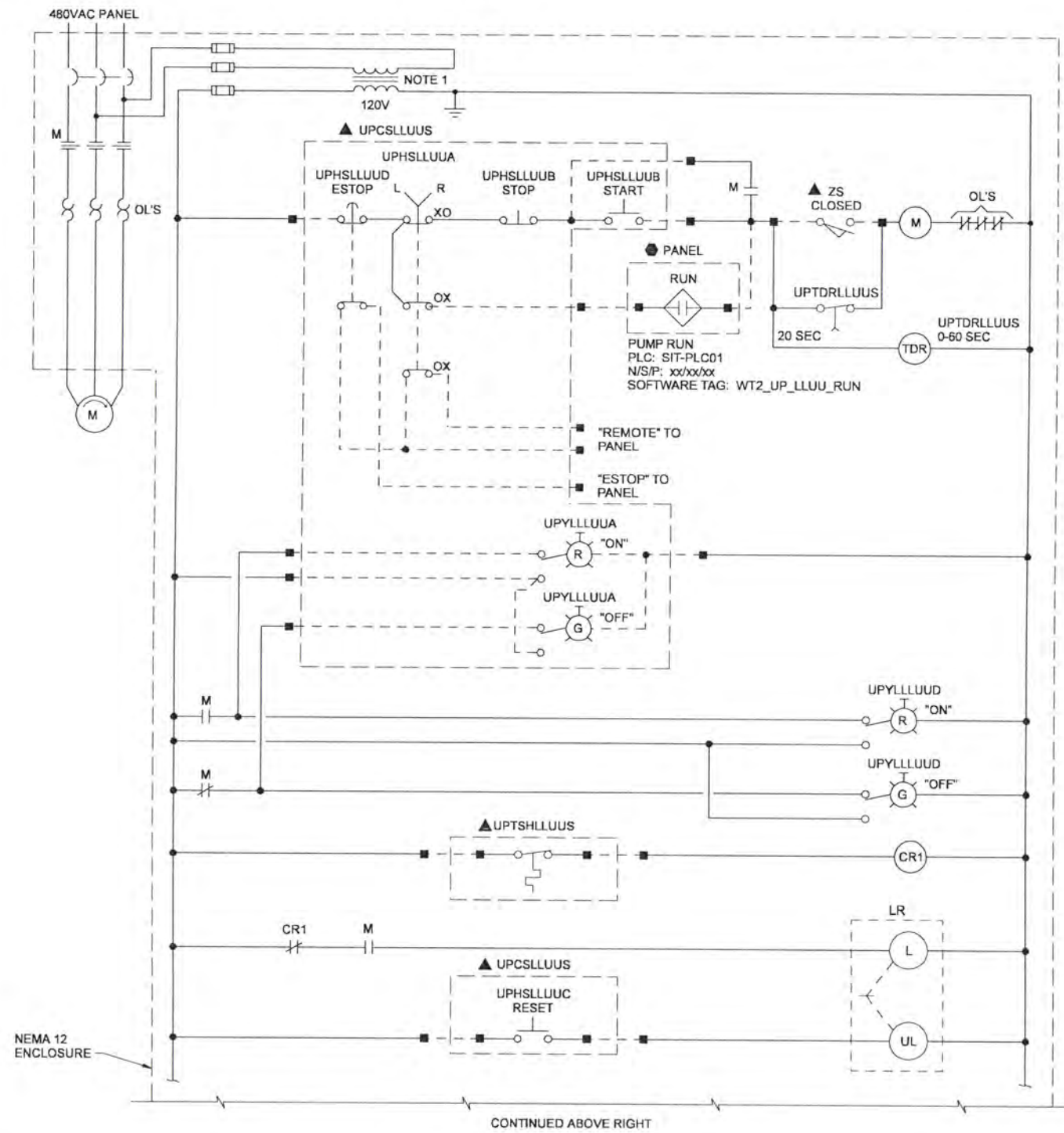
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 HVAC FAN TYPICAL
 DISCRETE LOOP

SHEET	70
DWG	08-I-50
DATE	APRIL 2004
PROJ	170368

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MCC



LOOP	LOOP DESCRIPTION	PANEL	EXCEPTIONS	MCC	480VAC PANEL	SIT	EQUIPMENT	ZS
12-1201	RAW WATER PUMP STATION SAND PUMP 1	RWP-CP01	NO UNIT HEATER	12MS1201	RWP-DP01	RWP	PUMP	12ZS1501
12-1202	RAW WATER PUMP STATION SAND PUMP 2	RWP-CP01	NO UNIT HEATER	12MS1202	RWP-DP01	RWP	PUMP	12ZS1502
12-1601	RAW WATER PUMP STATION SAND CLASSIFIER	RWP-CP01	OMIT ZS, TDR, TSH, CR1, AND LR	12MS1601	RWP-DP01	RWP	CLASSIFIER	

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006
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- NOTES:
 1. SIZE CPT TO PROVIDE SUFFICIENT CAPACITY FOR CONTROLS.

DSGN	JD KANYUCH	NO.	5/2006	RECORD DRAWING	DATE	REVISION	BY	APVD
DR	DS PARKER							
CHK	LL WOOD							
APVD	CW MASSIE							

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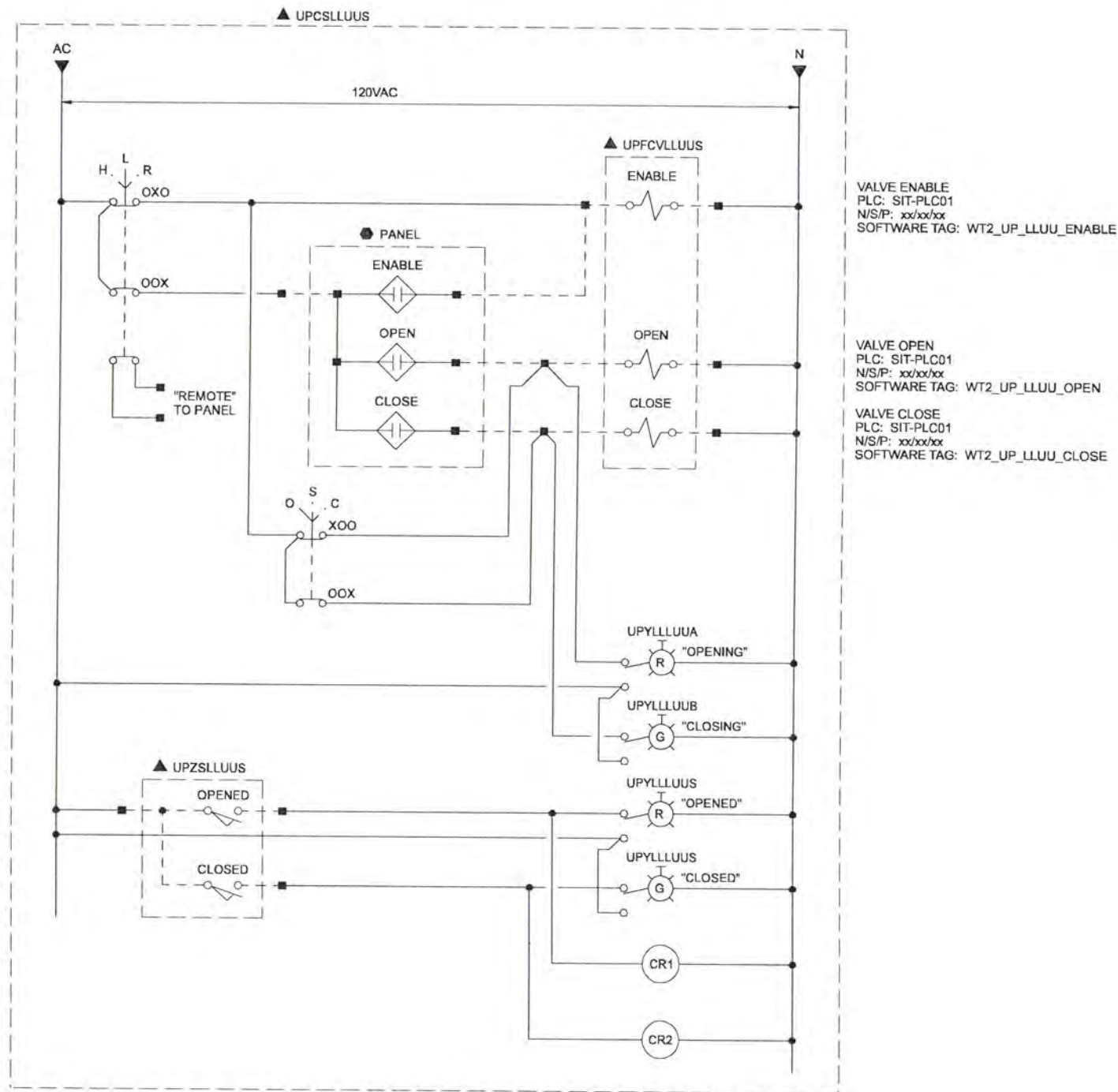
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 CONSTANT SPEED MOTORS AND PUMPS
 TYPICAL DISCRETE LOOP

SHEET	71
DWG	08-I-51
DATE	APRIL 2004
PROJ	170368

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FIELD

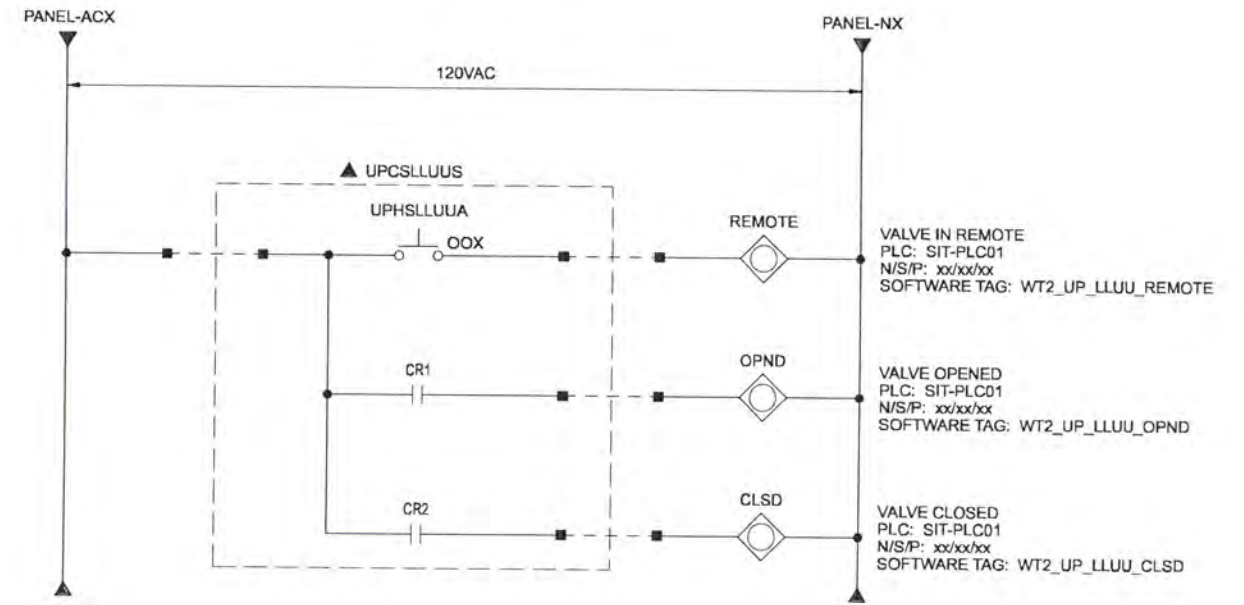


VALVE ENABLE
PLC: SIT-PLC01
N/S/P: xx/xx/xx
SOFTWARE TAG: WT2_UP_LLUU_ENABLE

VALVE OPEN
PLC: SIT-PLC01
N/S/P: xx/xx/xx
SOFTWARE TAG: WT2_UP_LLUU_OPEN

VALVE CLOSE
PLC: SIT-PLC01
N/S/P: xx/xx/xx
SOFTWARE TAG: WT2_UP_LLUU_CLOSE

PANEL



VALVE IN REMOTE
PLC: SIT-PLC01
N/S/P: xx/xx/xx
SOFTWARE TAG: WT2_UP_LLUU_REMOTE

VALVE OPENED
PLC: SIT-PLC01
N/S/P: xx/xx/xx
SOFTWARE TAG: WT2_UP_LLUU_OPND

VALVE CLOSED
PLC: SIT-PLC01
N/S/P: xx/xx/xx
SOFTWARE TAG: WT2_UP_LLUU_CLSD

LOOP	LOOP DESCRIPTION	480 VAC PANEL	PANEL	SIT
72-0401	ALBANY METERING VAULT FLOW VALVE		MVM-CP01	FLT

NOTES:
1. SEE VAULT FLOW VALVE ANALOG WIRING DIAGRAM FOR CONTINUATION OF ALBANY METERING VAULT FLOW VALVE.

RECORD DRAWINGS

Revisions Drawn By DSP Date 6/2006

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DSGN	JD KANYUCH						
DR	DS PARKER						
CHK	LL WOOD	6/2006	RECORD DRAWING				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
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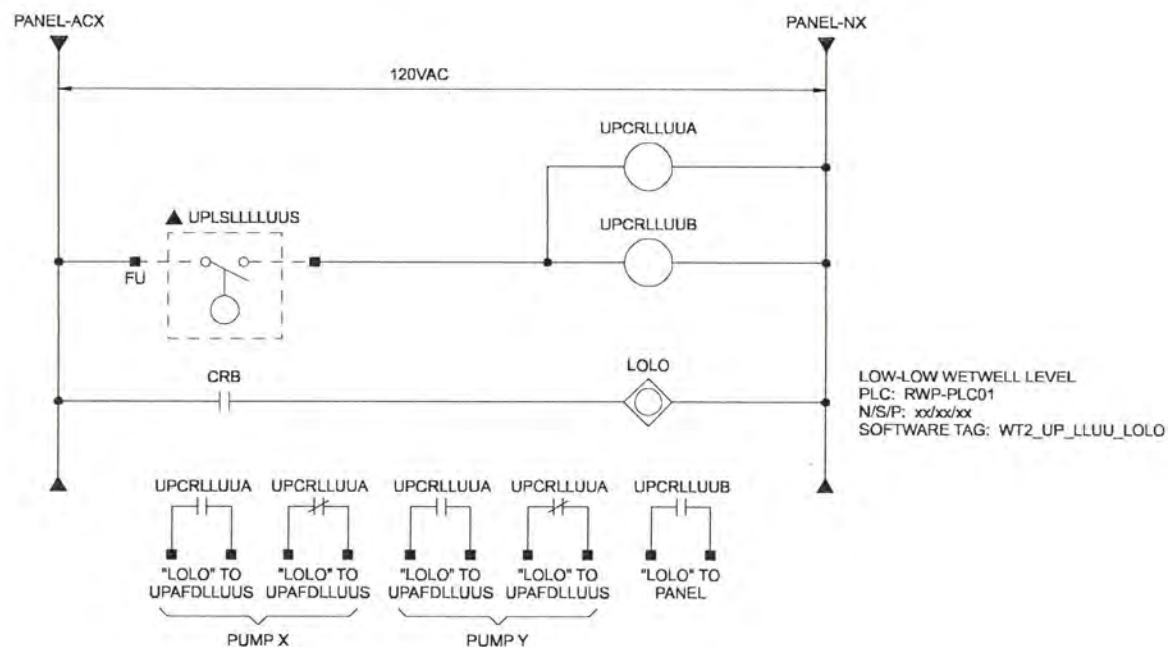
CH2MHILL

ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WIRING DIAGRAM
METERING VAULT FLOW VALVE TYPICAL
DISCRETE LOOP

SHEET	72
DWG	08-I-52
DATE	APRIL 2004
PROJ	170368

PANEL



LOOP	LOOP DESCRIPTION	PANEL	CRA	CRB	PUMP X	PUMP Y
11-2701	RAW WATER WETWELL 1 LEVEL	RWP-CP01	CR1	CR2	11P1101	11P1102
11-2702	RAW WATER WETWELL 2 LEVEL	RWP-CP01	CR3	CR4	11P1103	11P1104

RECORD DRAWINGS

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DSGN	JD KANYUCH		6/2006	RECORD DRAWING	NO.	DATE	REVISION	BY	APVD
DR	DS PARKER								
CHK	LL WOOD								
APVD	CW MASSIE								

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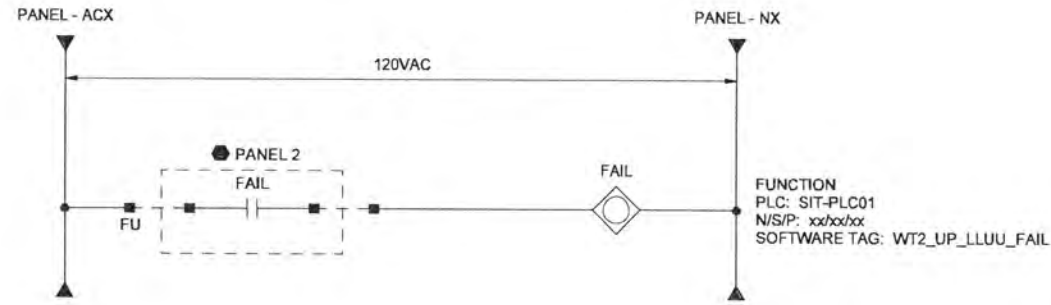
CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 RAW WATER WETWELL LOW-LOW
 FLOAT INTERLOCK TYPICAL
 DISCRETE LOOP

SHEET	73
DWG	08-I-53
DATE	APRIL 2004
PROJ	170368

PANEL 1



LOOP	LOOP DESCRIPTION	PANEL	PANEL 2	SIT	FUNCTION
91-0201	RWPS FIRE PUMP STATION TVSS	RWP-CP01	RWP-TVSS01	RWP	TVSS FAIL
91-0301	FILTRATION BUILDING TVSS	FLT-CP01	FLT-TVSS01	FLT	TVSS FAIL
92-0000	RWPS HVAC SYSTEM	RWP-CP01	92HCP0000	RWP	HVAC FAIL
92-2000	FILTRATION BUILDING HVAC SYSTEM	FLT-CP01	92HCP2000	FLT	HVAC FAIL

RECORD DRAWINGS

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DSGN	JD KANYUCH	6/2006 RECORD DRAWING	NO. DATE REVISION	BY APVD
DR	DS PARKER			
CHK	LL WOOD			
APVD	CW MASSIE			

VERIFY SCALE
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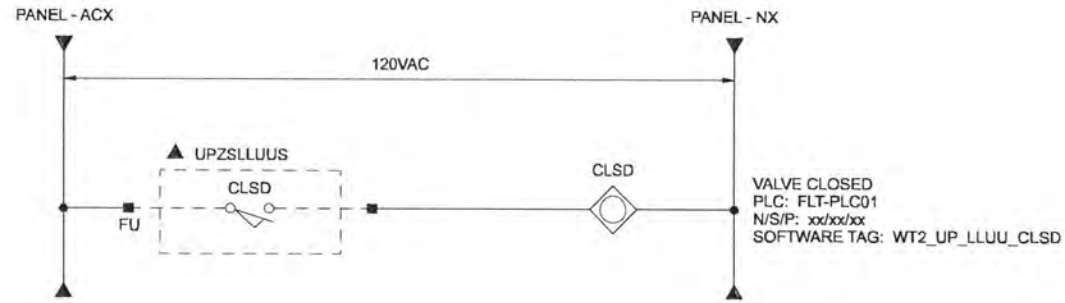


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 NON-PROCESS SYSTEM TYPICAL
 DISCRETE LOOP

SHEET	74
DWG	08-I-54
DATE	APRIL 2004
PROJ	170368

PANEL



LOOP	LOOP DESCRIPTION	PANEL
41-1101	SUPERNATANT VALVE TO SANTIAM RIVER	FLT-CP01
41-1102	SUPERNATANT VALVE TO US FILTER MICROFILTRATION SYSTEM	FLT-CP01

RECORD DRAWINGS

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DSGN	JD KANYUCH						
DR	DS PARKER						
CHK	LL WOOD	6/2006	RECORD DRAWING				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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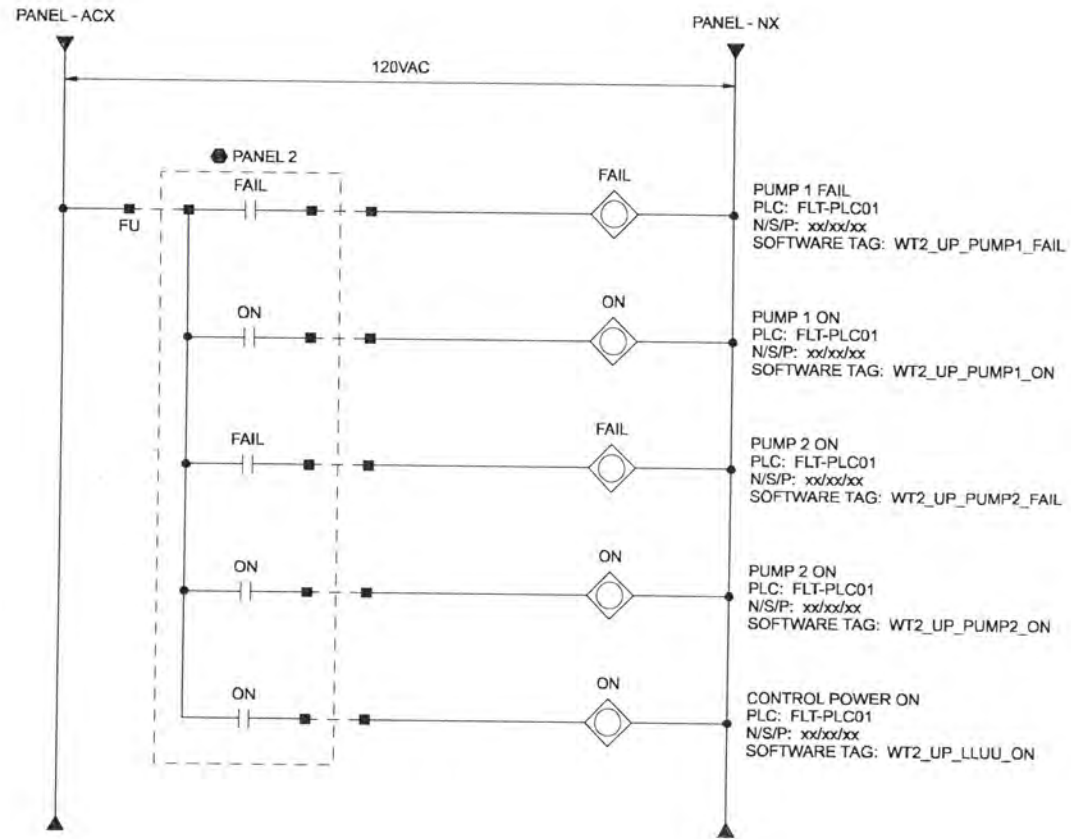
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 SUPERNATANT VALVE TYPICAL
 DISCRETE LOOP

SHEET	75
DWG	08-1-55
DATE	APRIL 2004
PROJ	170368

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PANEL 1



LOOP	LOOP DESCRIPTION	PANEL	PANEL 2	PUMP1	PUMP2
50-1900	W1 BOOSTER PUMP SYSTEM	FLT-CP01	50LCP1900	1901	1902

RECORD DRAWINGS

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DSGN	JD KANYUCH				
DR	DS PARKER				
CHK	LL WOOD	6/2006	RECORD DRAWING		
APVD	CW MASSIE	NO.	DATE	REVISION	BY

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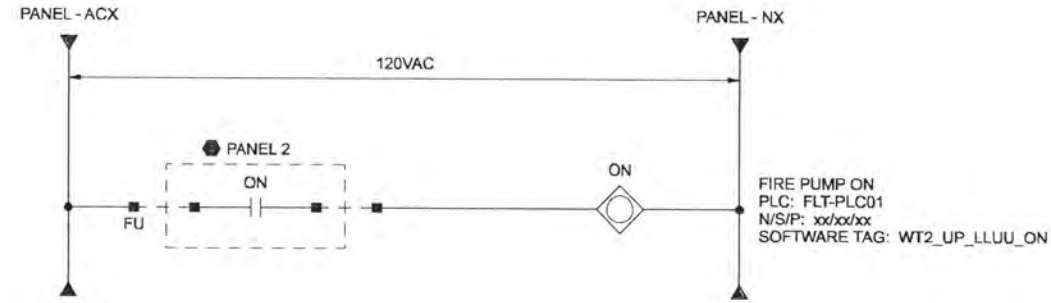
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WIRING DIAGRAM
W1 BOOSTER SYSTEM TYPICAL
DISCRETE LOOP

SHEET	76
DWG	08-1-56
DATE	APRIL 2004
PROJ	170368

PANEL 1



LOOP	LOOP DESCRIPTION	PANEL 1	PANEL 2
91-1101	FIRE PUMP	FLT-CP01	FLT-FCP01

RECORD DRAWINGS

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DSGN	JD KANYUCH	NO.	DATE	RECORD DRAWING	BY	APVD	REVISION
DR	DS PARKER						
CHK	LL WOOD						
APVD	CW MASSIE						

VERIFY SCALE
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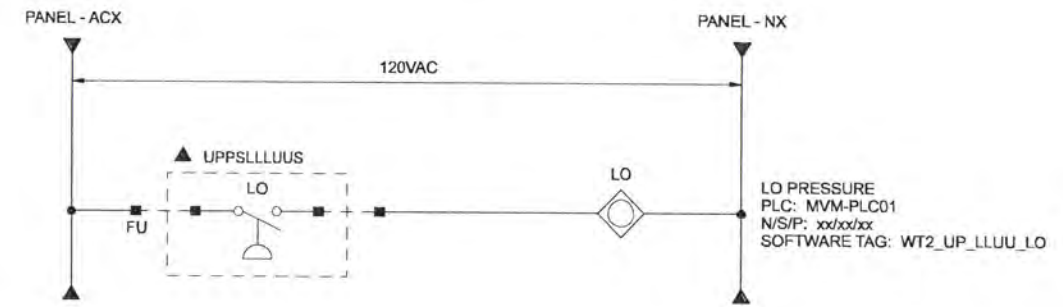
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 FIRE PUMP TYPICAL
 DISCRETE LOOP

SHEET	77
DWG	08-1-57
DATE	APRIL 2004
PROJ	170368

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PANEL



LOOP	LOOP DESCRIPTION	PANEL
72-1001	ALBANY DISTRIBUTION SYSTEM LO PRESSURE	MVM-CP01
50-2301	W1 BOOSTER PUMP INLET PRESSURE	FLT-CP01

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DSGN	JD KANYUCH						
DR	DS PARKER						
CHK	LL WOOD	6/2006	RECORD DRAWING				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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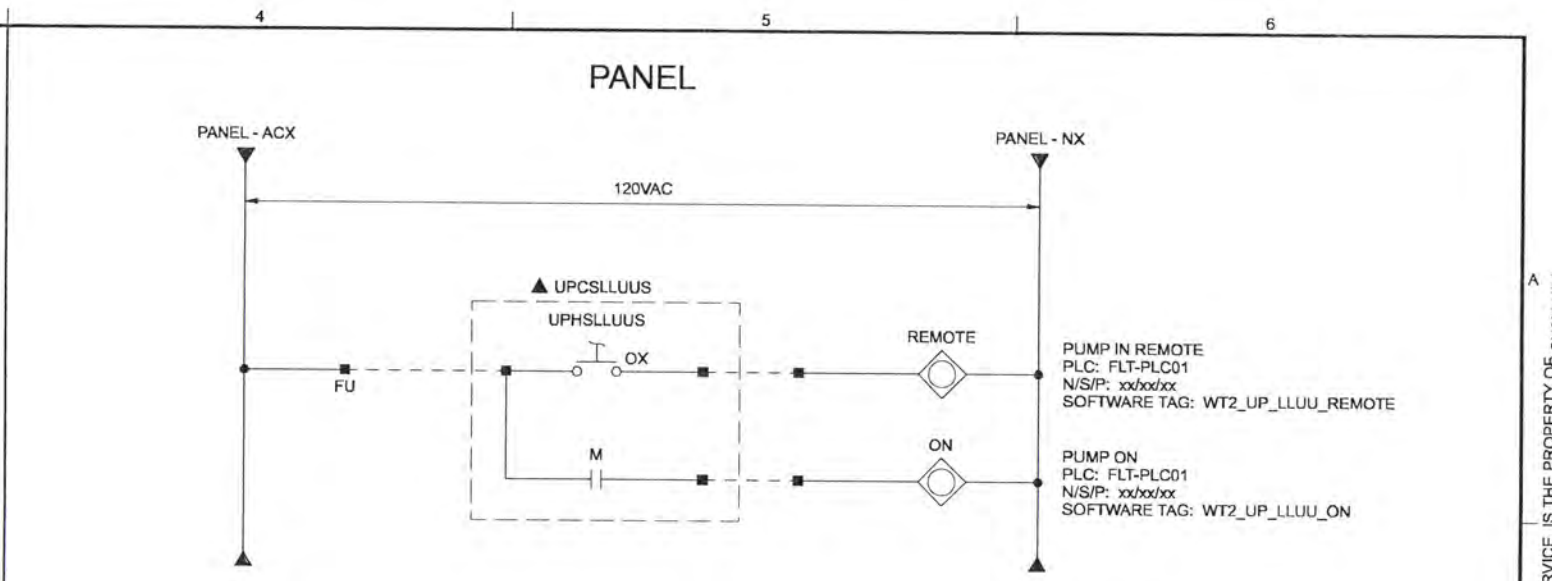
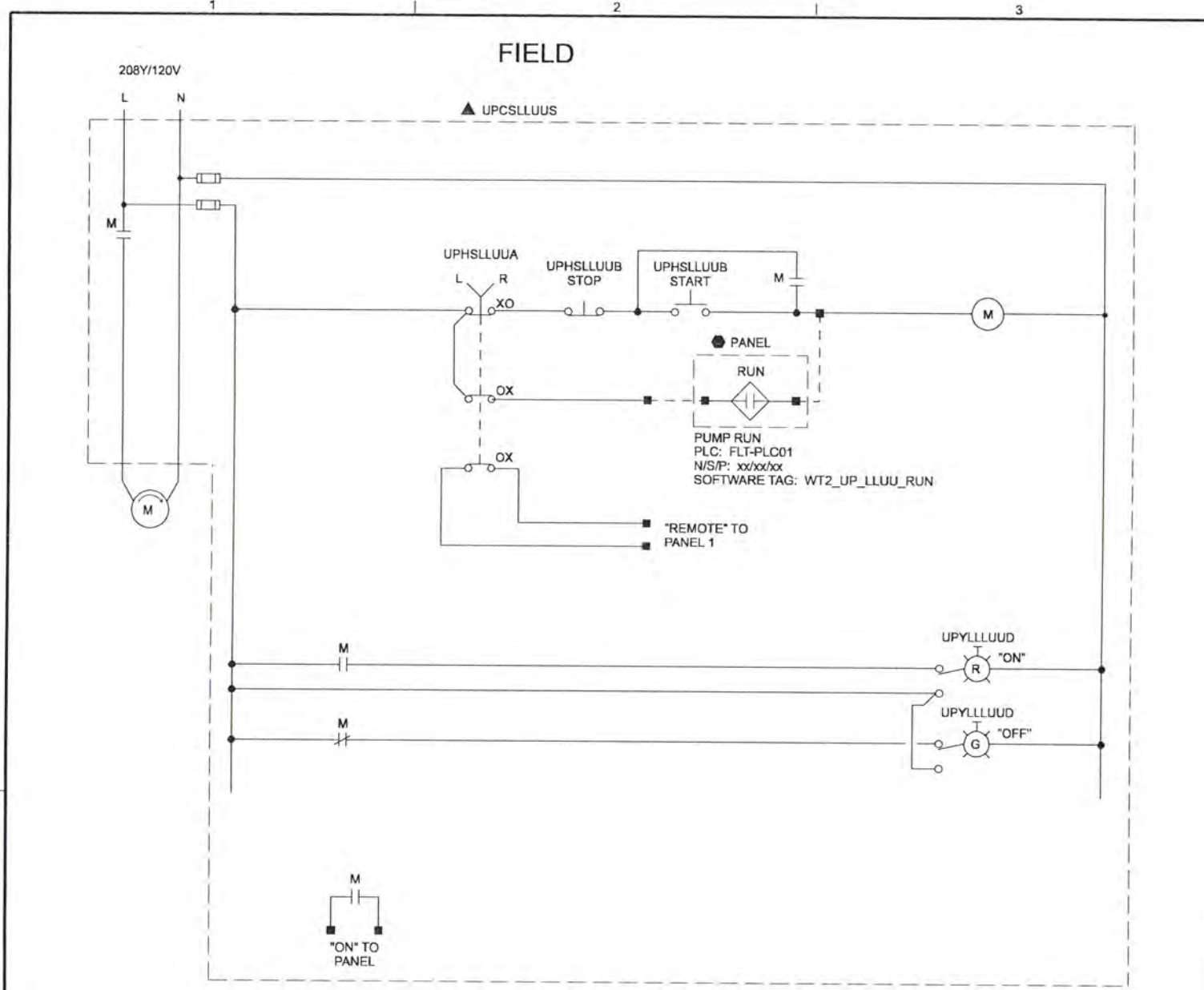


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 LO PRESSURE TYPICAL
 DISCRETE LOOP

SHEET	78
DWG	08-I-58
DATE	APRIL 2004
PROJ	170368

A
 B
 C
 D
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LOOP	LOOP DESCRIPTION	PANEL	208Y/120VAC PANEL
50-0701	FINISHED WATER SAMPLE PUMP	FLT-CP01	
50-1401	RAW WATER SAMPLE PUMP	FLT-CP01	

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DSGN	JD KANYUCH	6/2006 RECORD DRAWING	NO. DATE REVISION	DESIGNED BY APVD	CHECKED BY	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	DS PARKER					
CHK	LL WOOD					
APVD	CW MASSIE					



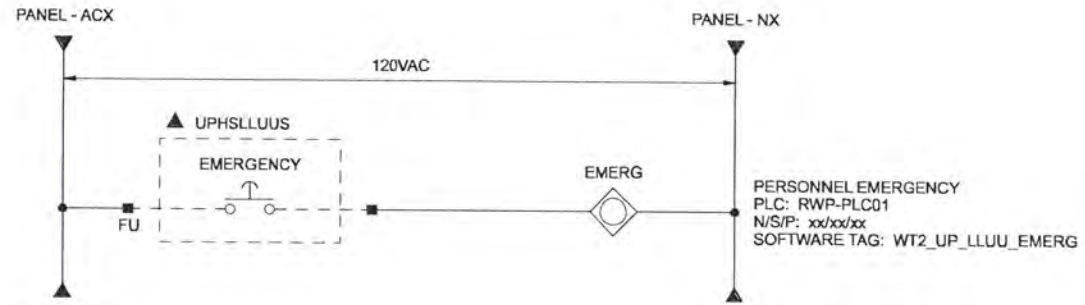
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 SAMPLE PUMP TYPICAL
 DISCRETE LOOP

SHEET	79
DWG	08-I-59
DATE	APRIL 2004
PROJ	170368

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PANEL



LOOP	LOOP DESCRIPTION	PANEL
93-1401	RWPS PERSONNEL EMERGENCY	RWP-CP01

RECORD DRAWINGS

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DSGN	JD KANYUCH
DR	DS PARKER
CHK	LL WOOD
APVD	CW MASSIE



NO. DATE

6/2006 RECORD DRAWING

REVISION

BY APVD

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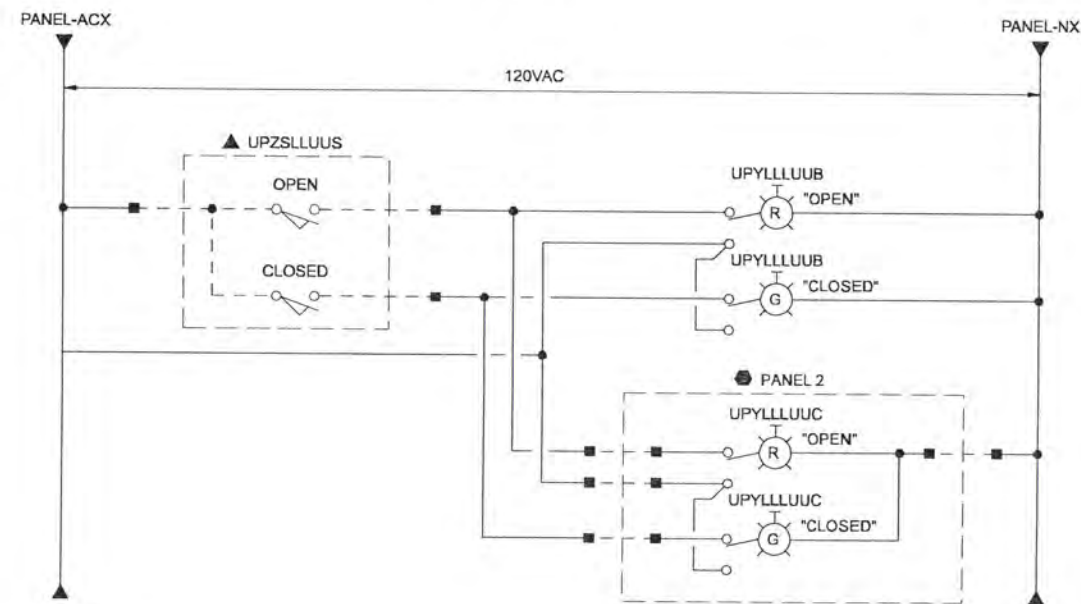
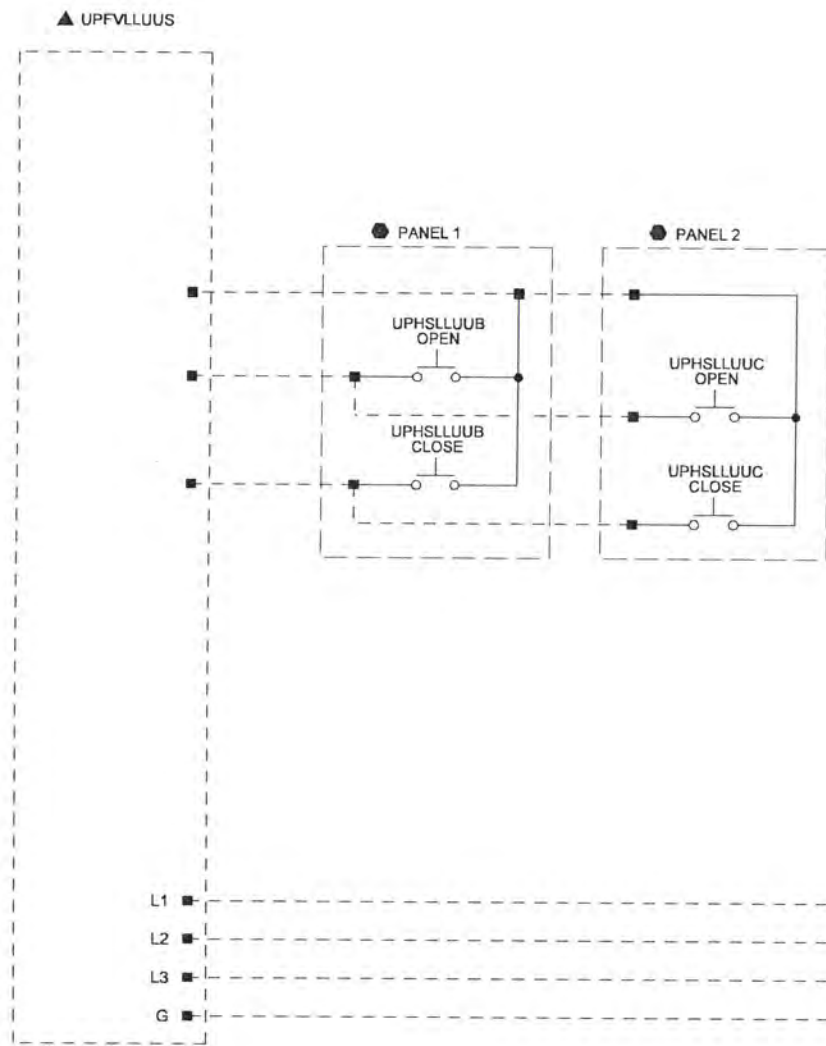
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 PERSONNEL EMERGENCY TYPICAL
 DISCRETE LOOP

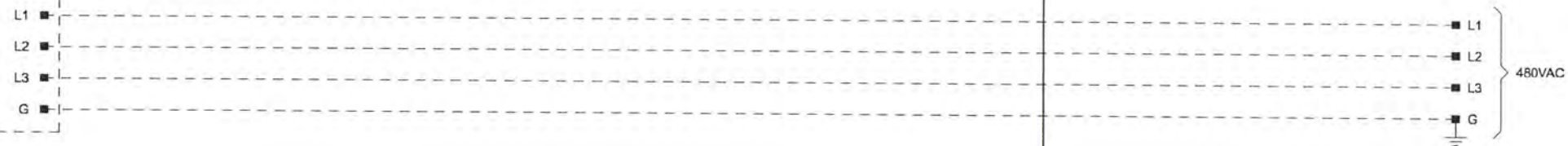
SHEET	80
DWG	08-I-60
DATE	APRIL 2004
PROJ	170368

FIELD

PANEL 1



480VAC PANEL



LOOP	LOOP DESCRIPTION	480VAC PANEL	PANEL 1	PANEL 2
30-0201	CHEMICAL CONTAINMENT AREA DRAIN VALVE	FLT-DP01	30LCP0101	30LCP0102

RECORD DRAWINGS

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DSGN	JD KANYUCH		6/2006	RECORD DRAWING	NO.	DATE	REVISION	BY	APVD
DR	DS PARKER								
CHK	LL WOOD								
APVD	CW MASSIE								

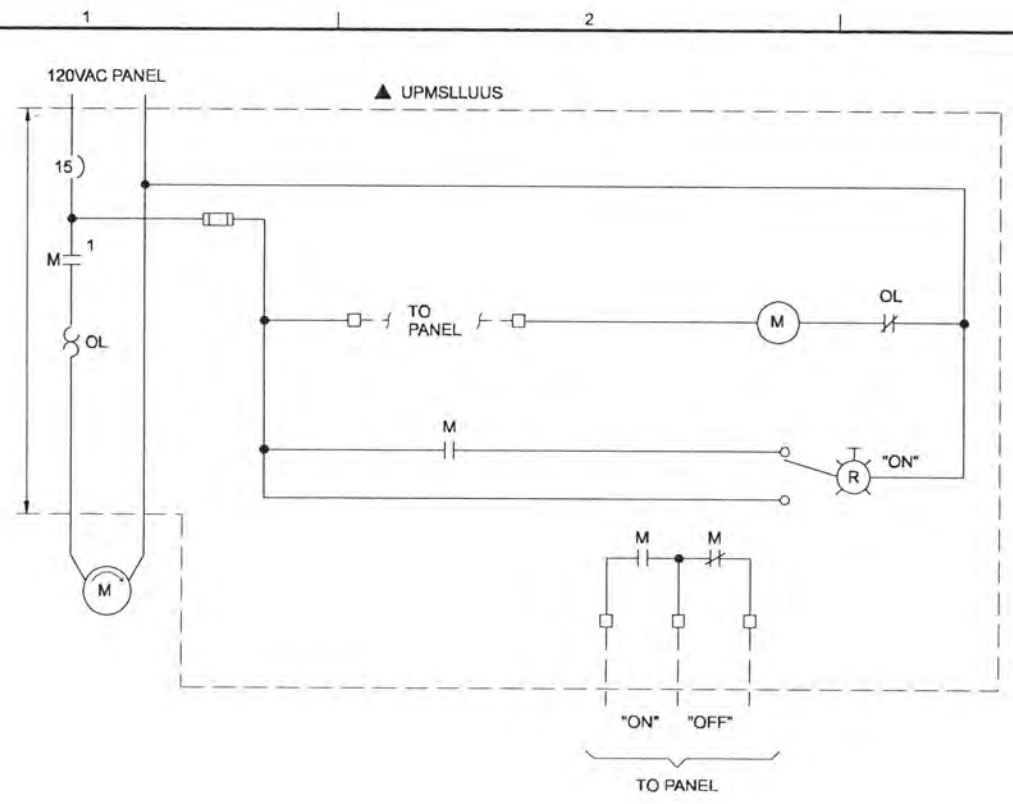
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 CHEMICAL CONTAINMENT AREA
 DRAIN VALVE TYPICAL
 DISCRETE LOOP

SHEET	81
DWG	08-1-61
DATE	APRIL 2004
PROJ	170368



LOOP	LOOP DESCRIPTION	PANEL	120VAC PANEL
92-5501	FILTRATION BLDG HVAC ROOM EXHAUST FAN	92HCP2000	FLT-CP02
92-7501	FILTRATION BLDG FLUORIDE ROOM EXHAUST FAN	92HCP2000	FLT-CP02
92-8501	FILTRATION BLDG SODIUM HYDROXIDE ROOM EXHAUST FAN	92HCP2000	FLT-CP02
92-9501	FILTRATION BLDG LAVATORY AND JANITOR ROOM EXHAUST FAN	92HCP2000	FLT-CP01
92-1201	RAW WATER PUMP STATION DRY WELL SUPPLY FAN 1	92HCP0000	RWP-CP01

RECORD DRAWINGS

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DSGN	JD KANYUCH		6/2006	RECORD DRAWING	DSGN BY	ECHK APVD	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	DS PARKER						
CHK	LL WOOD						
APVD	CW MASSIE						
NO.	DATE						



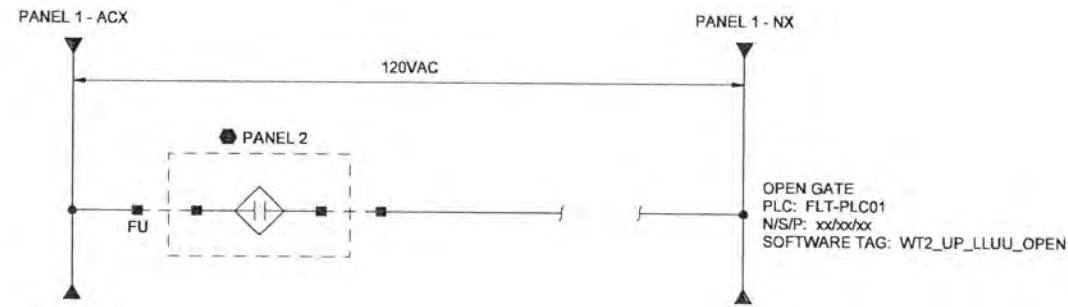
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 HVAC EXHAUST FAN TYPICAL
 DISCRETE LOOP

SHEET	82
DWG	08-1-62
DATE	APRIL 2004
PROJ	170368

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PANEL 1



LOOP	LOOP DESCRIPTION	PANEL 1	PANEL 2
91-1101	FILTRATION BUILDING ENTRANCE GATE	FLT-GAT01	FLT-CP01

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DSGN	JD KANYUCH						
DR	DS PARKER						
CHK	LL WOOD	1	6/2006	RECORD DRAWING	DSG	BOOK	
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
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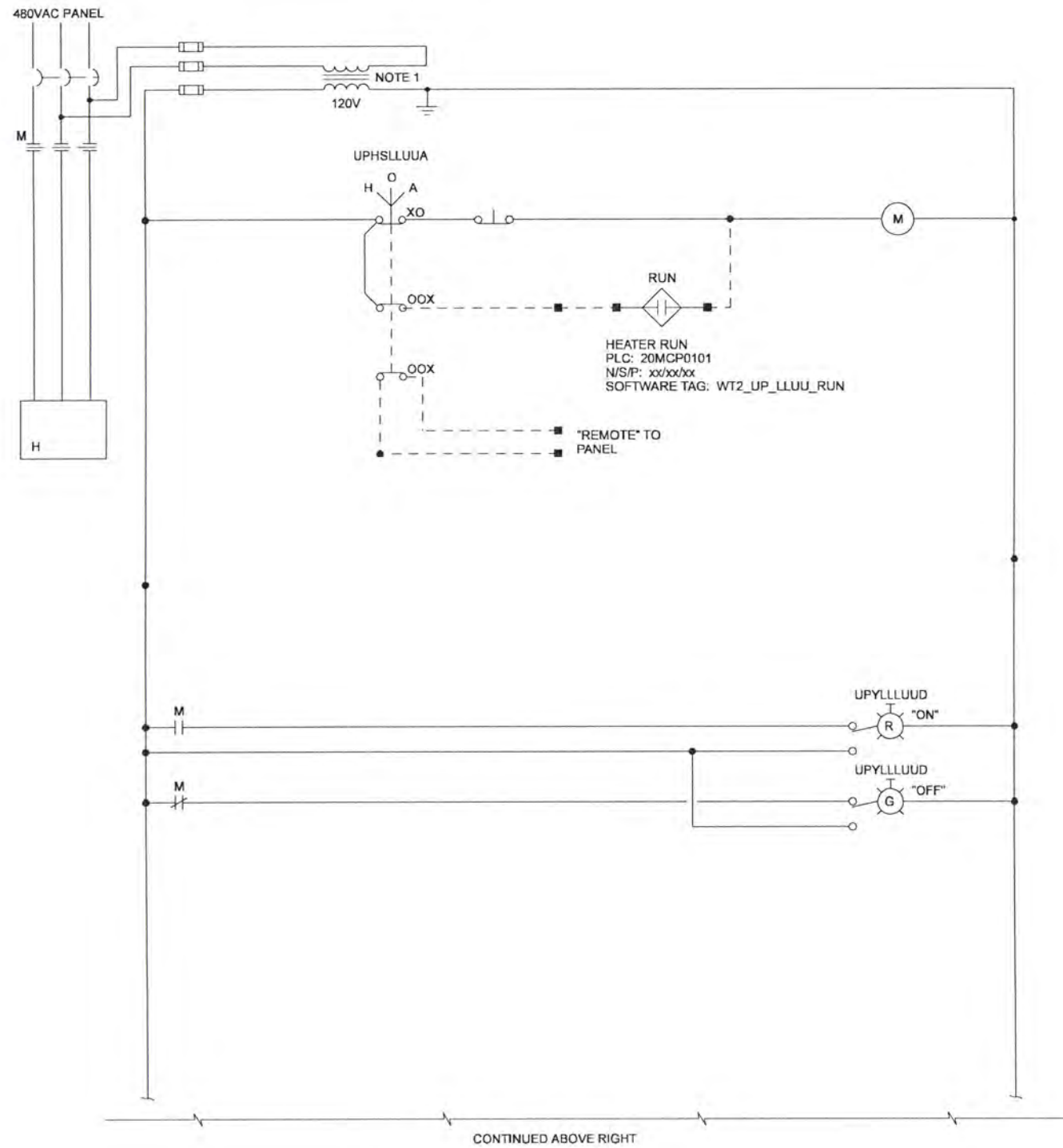
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 FILTRATION BUILDING ENTRANCE GATE
 DISCRETE LOOP

SHEET	83
DWG	08-1-63
DATE	APRIL 2004
PROJ	170368

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MCC



CONTINUED ABOVE RIGHT

LOOP	LOOP DESCRIPTION	PANEL	EXCEPTIONS	MCC
22-2701-01	CIP HEATER CONTACTOR 1	20MCP0101	NONE	FLT-MCC01
22-2701-02	CIP HEATER CONTACTOR 2	20MCP0101	NONE	FLT-MCC01

NOTES:

1. SIZE CPT TO PROVIDE SUFFICIENT CAPACITY FOR CONTROLS.
2. REFER TO US FILTER DRAWINGS FOR PANEL WIRING ASSOCIATED WITH PACKAGE CONTROLS.

DSGN	JD KANYUCH				
DR	DS PARKER				
CHK	LL WOOD				
APVD	CW MASSIE				
		NO.	DATE	REVISION	BY

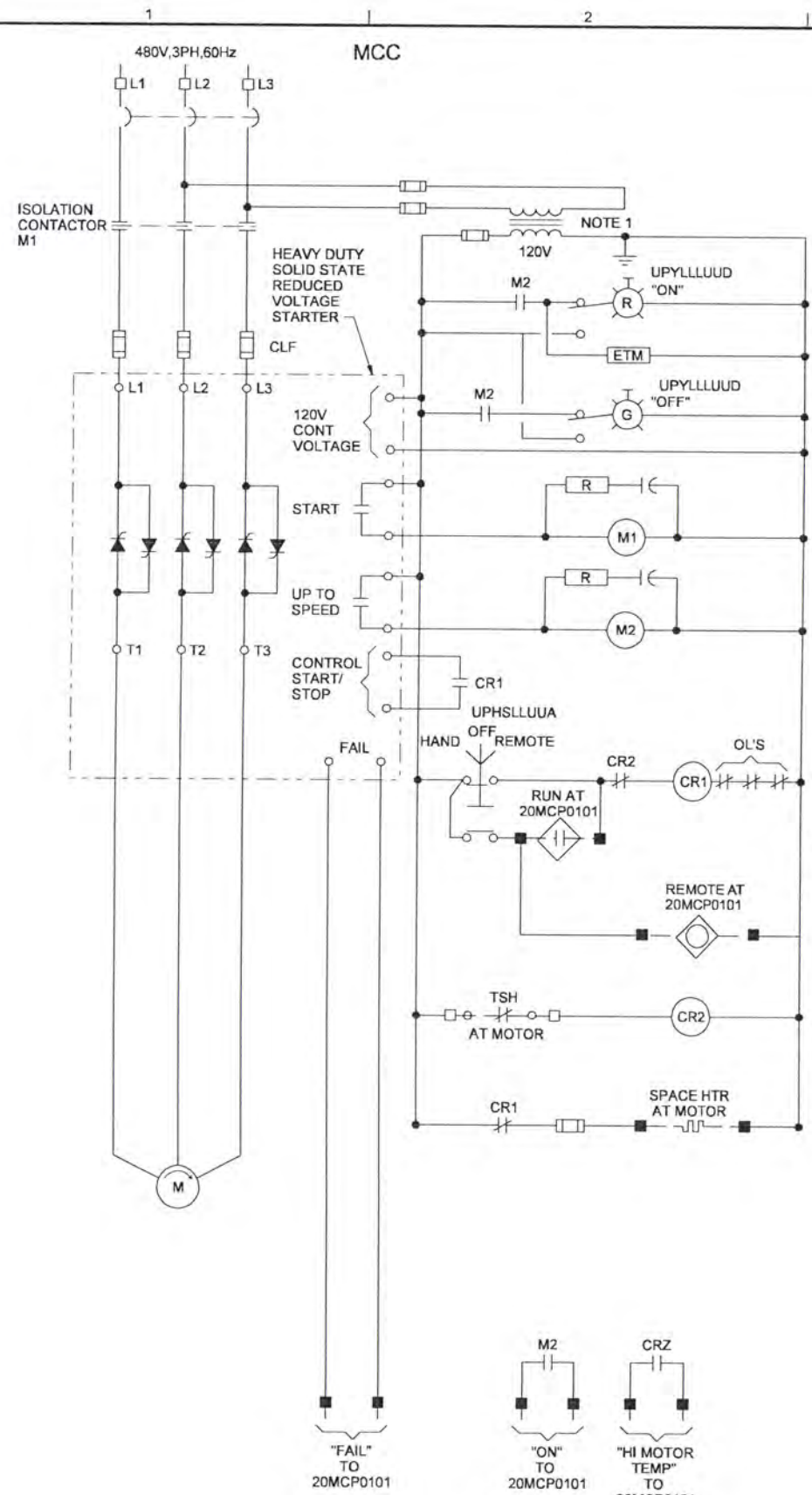
VERIFY SCALE
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WIRING DIAGRAM
 CIP HEATER CONTACTORS
 TYPICAL DISCRETE LOOP

SHEET	83A
DWG	08-I-64
DATE	APRIL 2004
PROJ	170368



PUMP RUN
 PLC: 20MCP0101
 N/S/P: XX/XX/XX
 SOFTWARE TAG:
 WZ_UP_LLUU_RUN

LOOP	LOOP DESCRIPTION	PANEL	EXCEPTIONS	MCC
26-0701	CIP TRANSFER PUMP	20MCP0101	NONE	FLT-MCC01

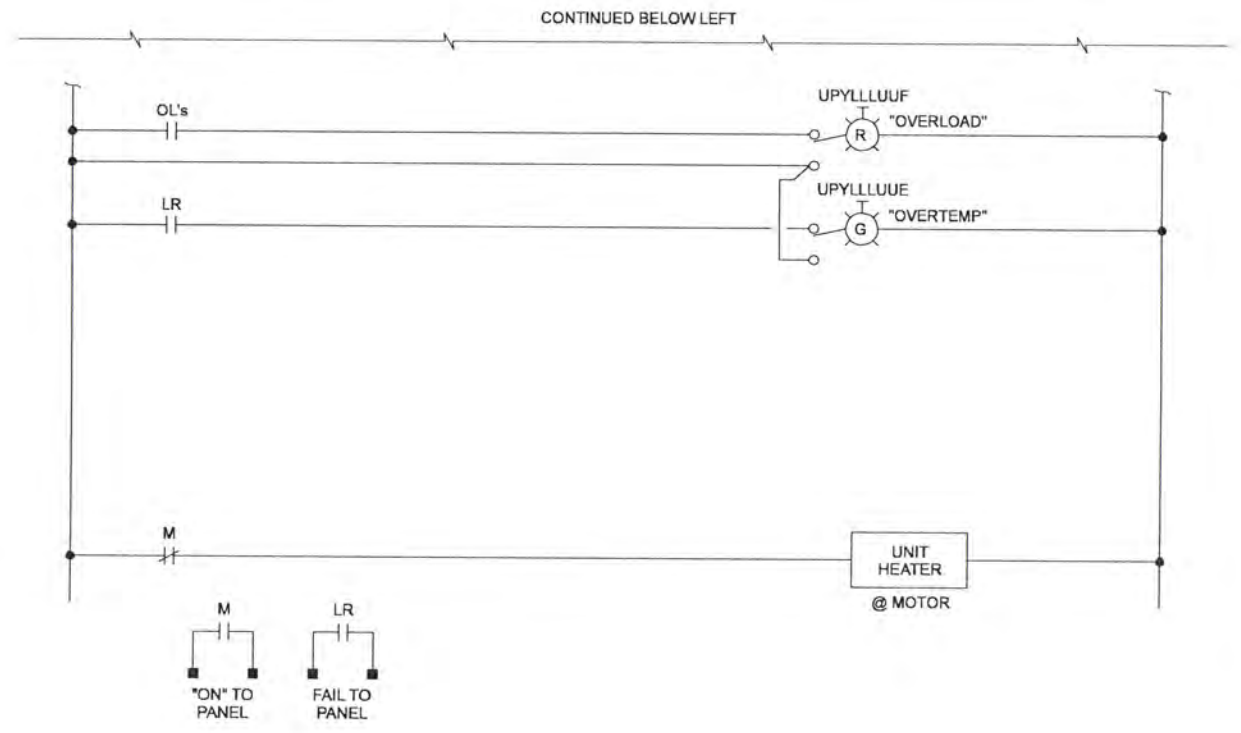
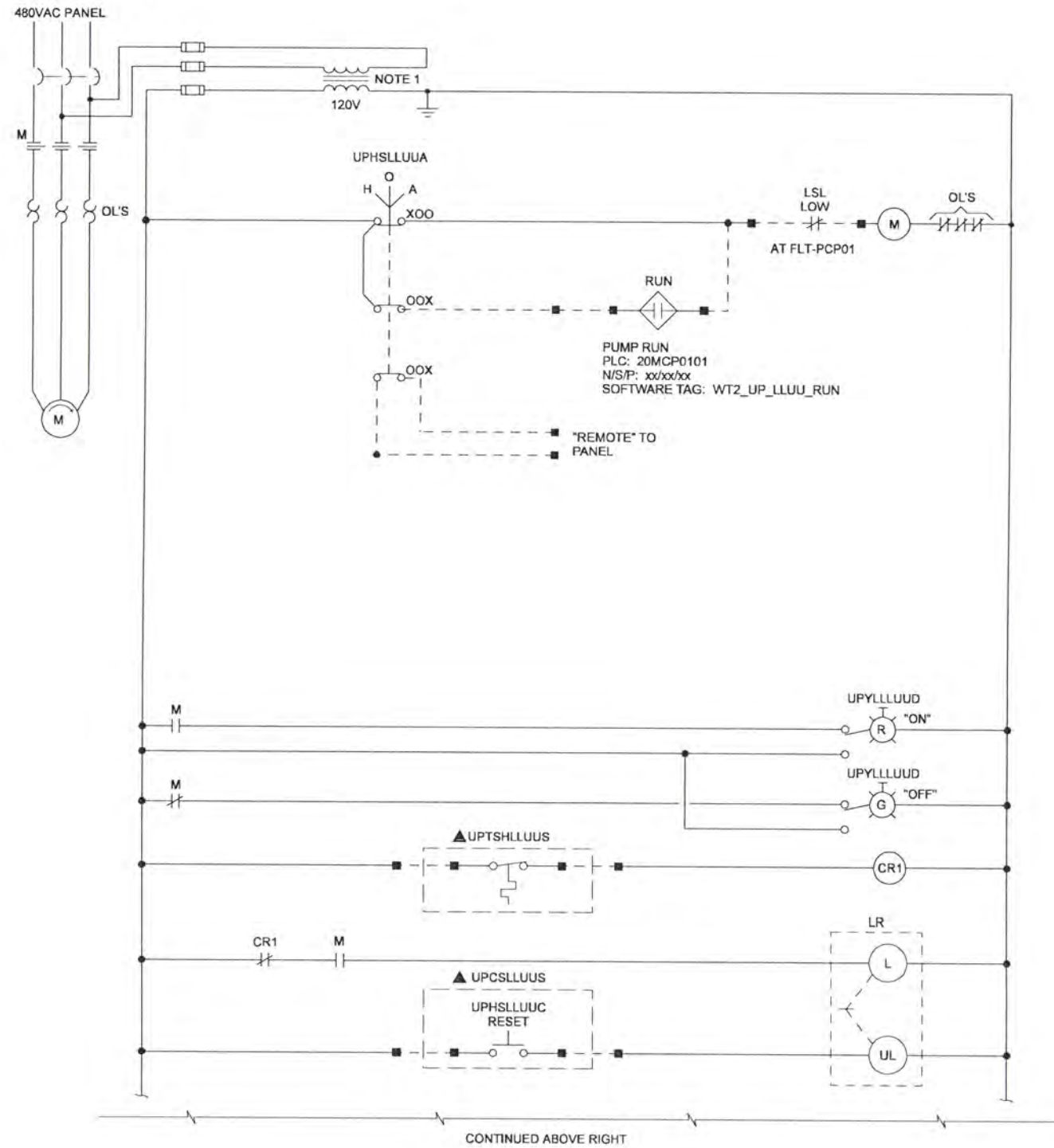
- NOTES:**
1. SIZE CPT TO PROVIDE SUFFICIENT CAPACITY FOR CONTROLS.
 2. REFER TO US FILTER DRAWINGS FOR PANEL WIRING ASSOCIATED WITH PACKAGE CONTROLS.

CIP TRANSFER PUMP
 X = DAB-1, 2, 3 Y = DAB-TJB-1

DSGN JD KANYUCH	DR DS PARKER	CHK LL WOOD	APVD CW MASSIE	NO.	DATE	REVISION	BY JMD	APVD	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.		ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT LINN COUNTY, OREGON	WIRING DIAGRAM CIP TRANSFER PUMP (26P0701) TYPICAL DISCRETE LOOP	SHEET 83B	
													DWG 08-I-65	
													DATE APRIL 2004	
													PROJ 170368	

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MCC



LOOP	LOOP DESCRIPTION	PANEL	EXCEPTIONS	MCC
27-0301-01	RAW WATER PUMP STATION SAND PUMP 1	20MCP0101	NONE	FLT-MCC01
27-0301-02	RAW WATER PUMP STATION SAND PUMP 2	20MCP0101	NONE	FLT-MCC01

- NOTES:
1. SIZE CPT TO PROVIDE SUFFICIENT CAPACITY FOR CONTROLS.
 2. REFER TO US FILTER DRAWINGS FOR PANEL WIRING ASSOCIATED WITH PACKAGE CONTROLS.

DSGN	JD KANYUCH		VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	DS PARKER		
CHK	LL WOOD		
APVD	CW MASSIE		

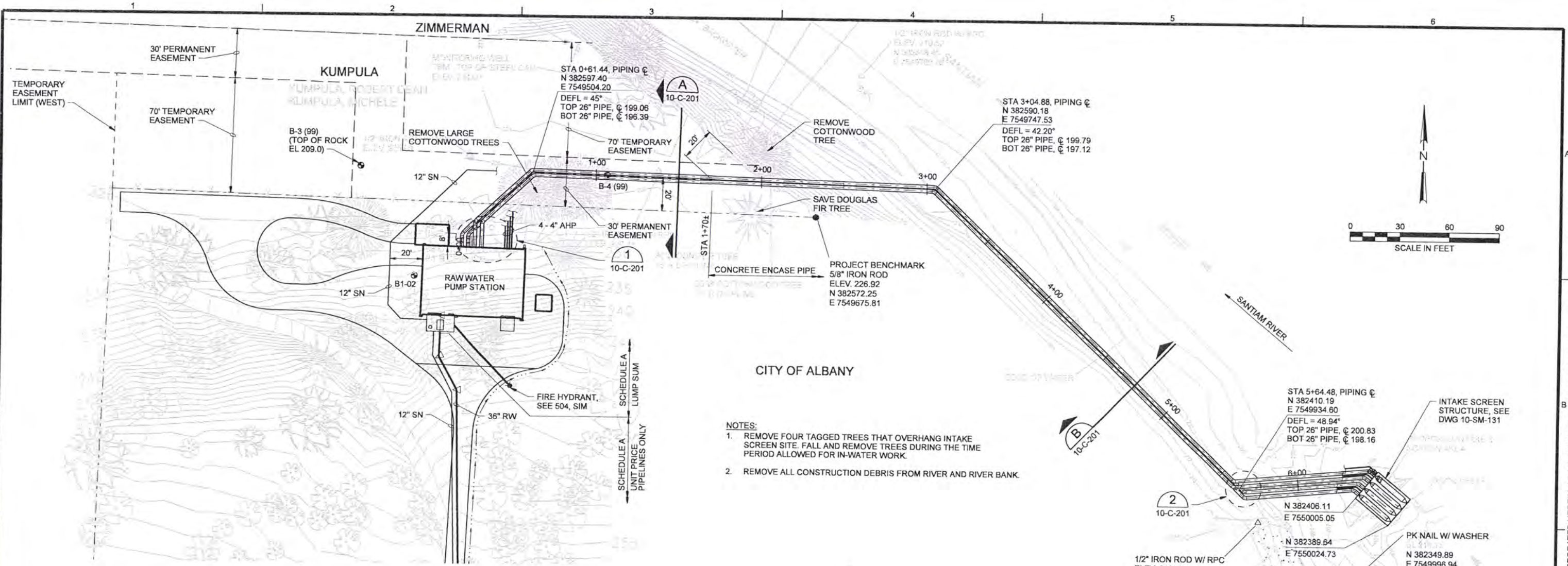


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

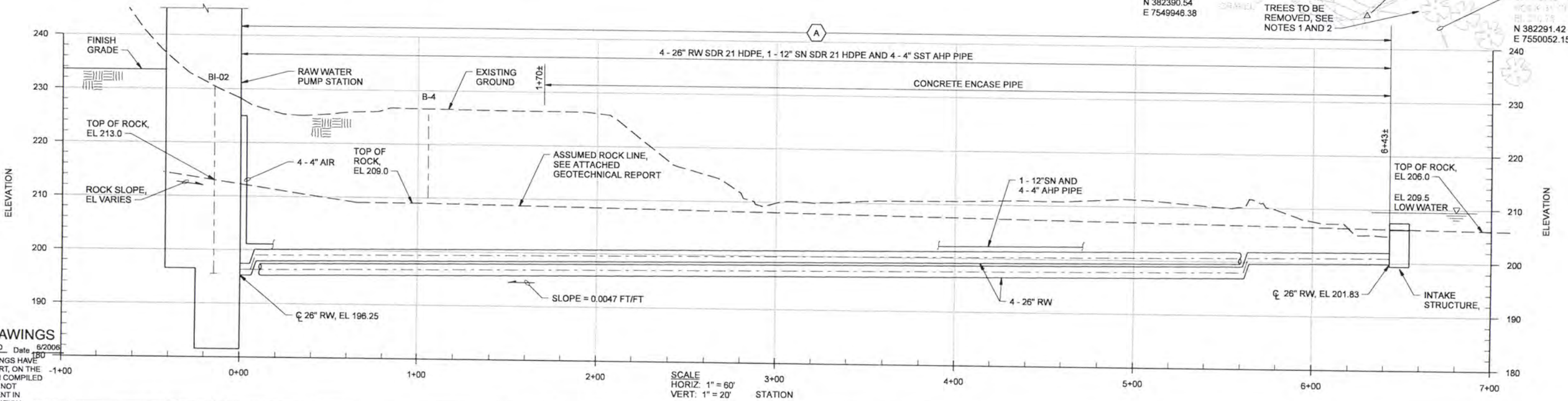
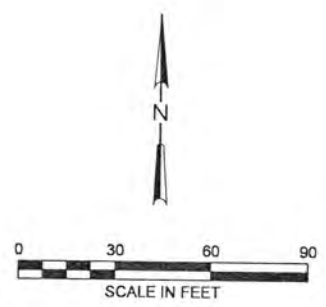
WIRING DIAGRAM
NEUTRALIZATION WASTE TANK PUMPS
TYPICAL DISCRETE LOOP

SHEET	83C
DWG	08-1-66
DATE	APRIL 2004
PROJ	170368

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL.



- NOTES:**
- REMOVE FOUR TAGGED TREES THAT OVERHANG INTAKE SCREEN SITE. FALL AND REMOVE TREES DURING THE TIME PERIOD ALLOWED FOR IN-WATER WORK.
 - REMOVE ALL CONSTRUCTION DEBRIS FROM RIVER AND RIVER BANK.



RECORD DRAWINGS

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DSGN	GG SILBERNAGEL				
DR	LG McCALL				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD
			REVISION		

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

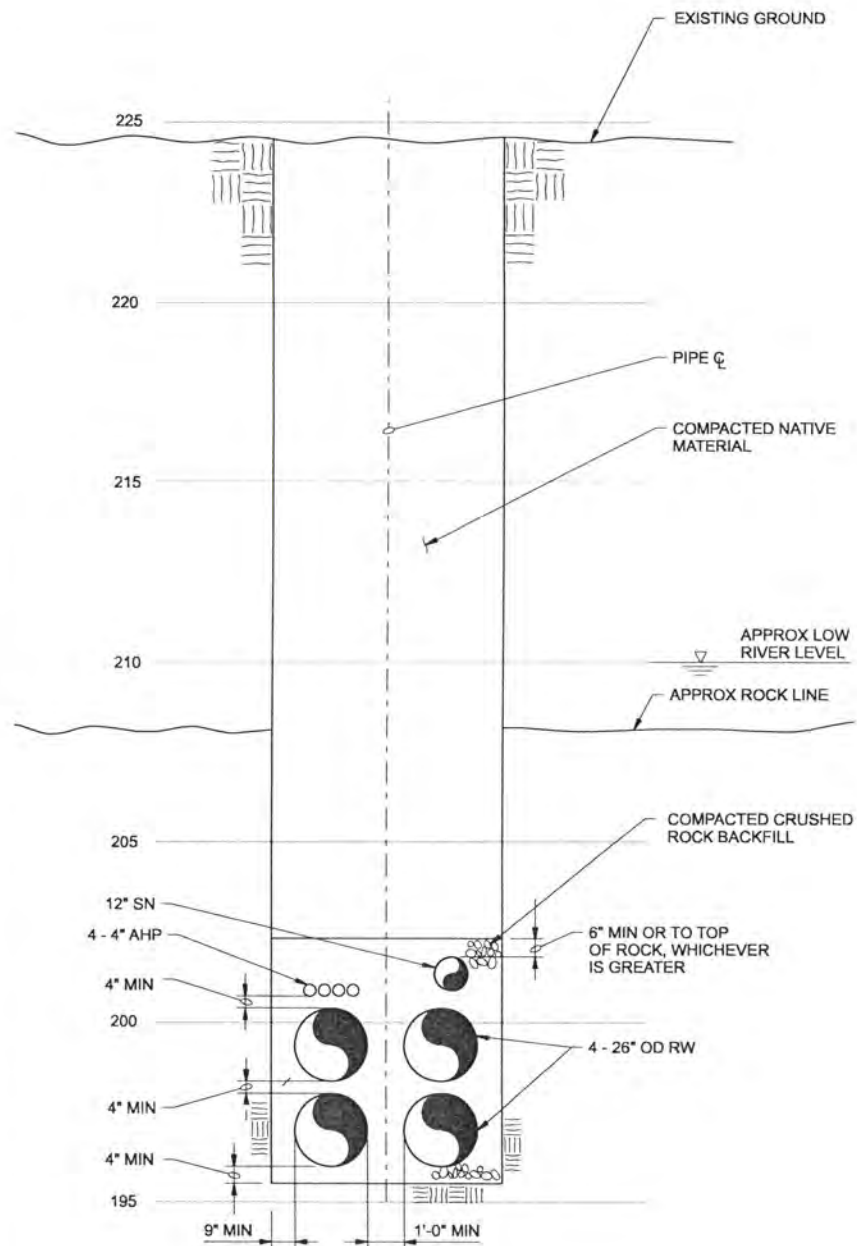


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER INTAKE AND SUPERNATANT PIPELINES
 CIVIL
 PIPELINES PLAN AND PROFILE

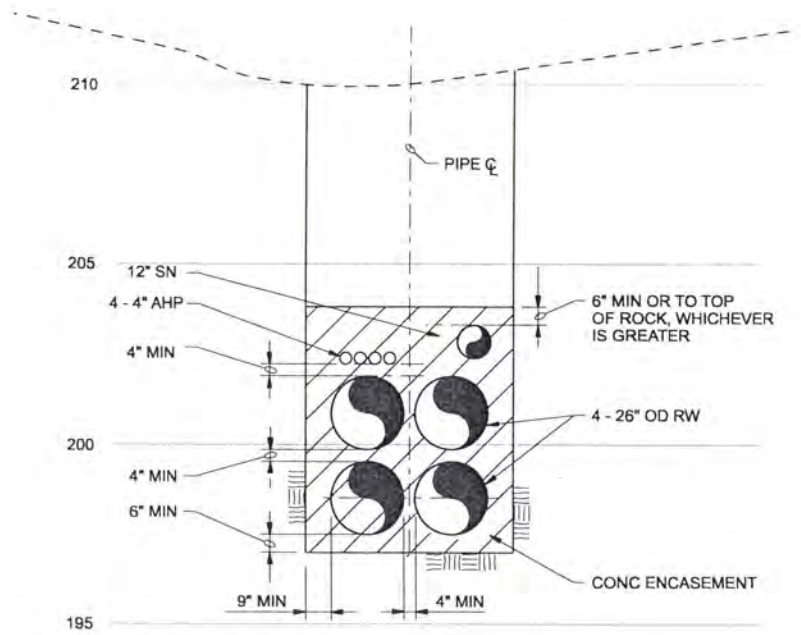
SHEET	84
DWG	10-C-101
DATE	APRIL 2004
PROJ	170368

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TYPICAL SECTION FROM STA 0+00 TO 1+70±

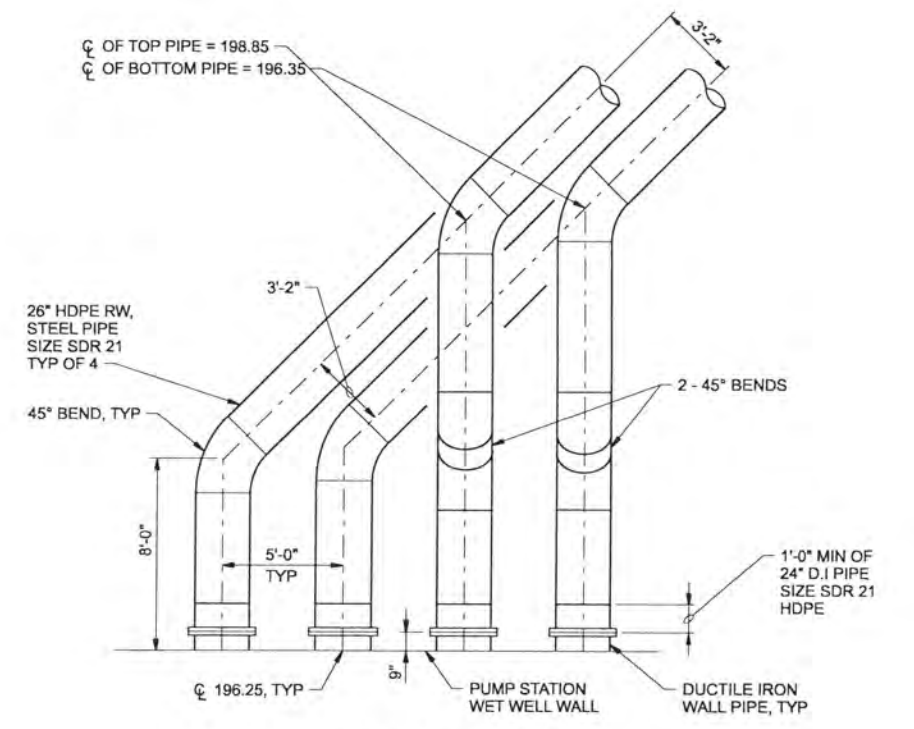
SECTION A
3/8" = 1'-0" 10-C-101



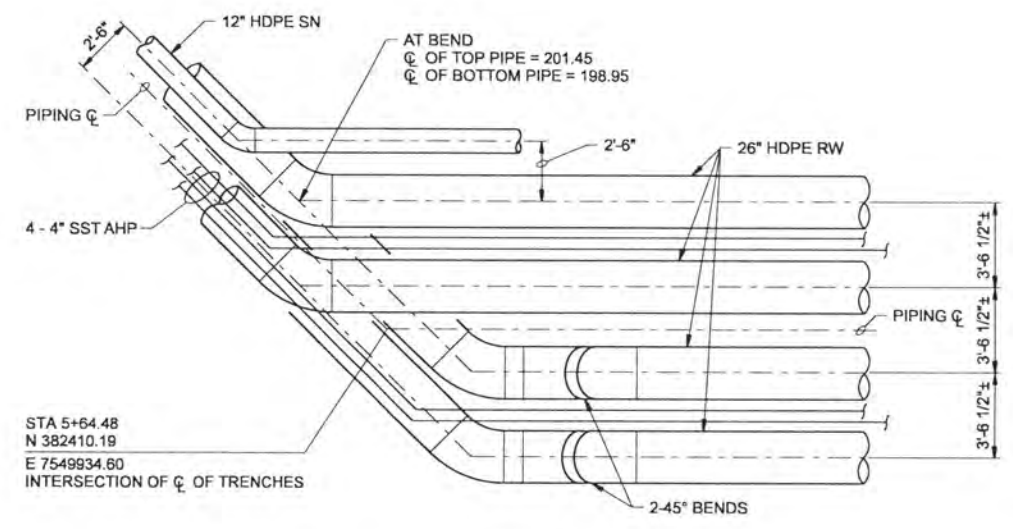
TYPICAL SECTION FROM STA 1+70 ± TO 5+64±

SECTION B
3/8" = 1'-0" 10-C-101

- NOTES:
- POUR CONCRETE AGAINST UNDISTURBED ROCK.
 - PREVENT FLOTATION OF PIPE WHEN PLACING CONCRETE.



DETAIL 1
1/4" = 1'-0" 10-C-101



DETAIL 2
1/4" = 1'-0" 10-C-101

RECORD DRAWINGS

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DSGN	JL MCWADE								
DR	PA LONG								
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1'
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

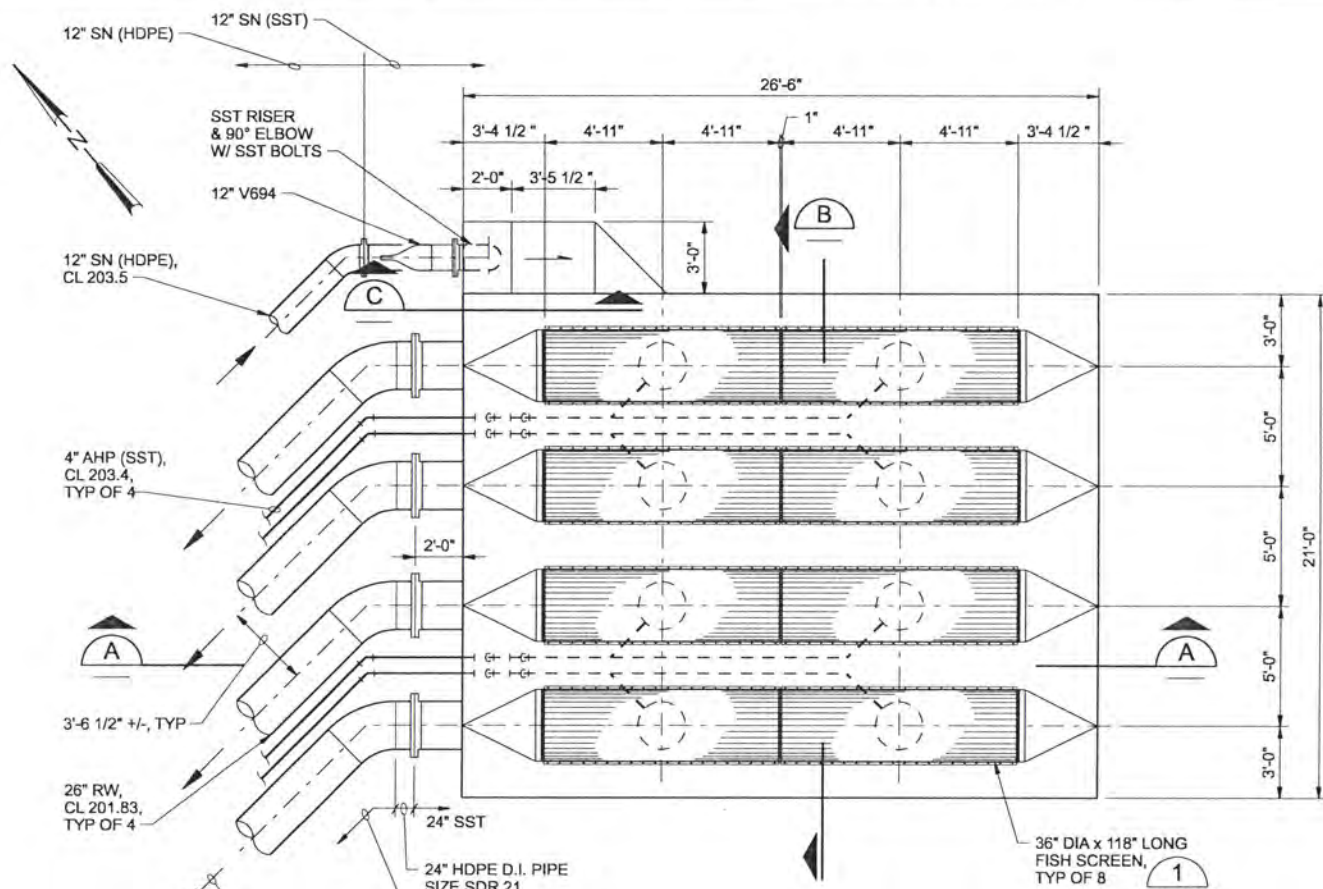


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

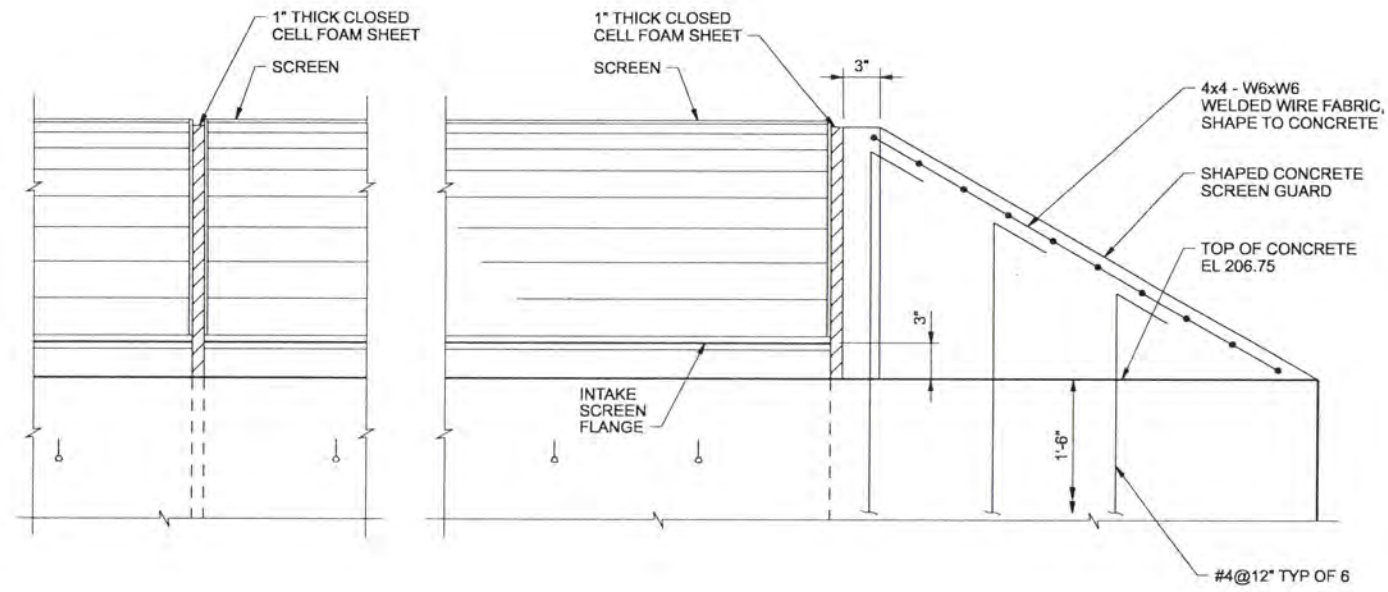
RAW WATER INTAKE AND SUPERNATANT PIPELINES
 CIVIL SITE SECTIONS AND DETAILS

SHEET	85
DWG	10-C-201
DATE	APRIL 2004
PROJ	170368

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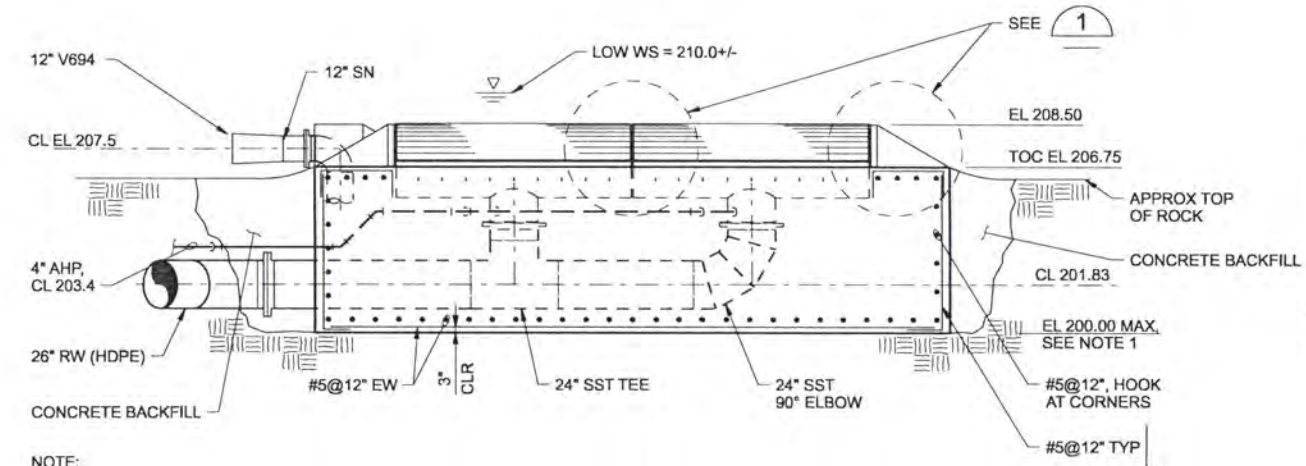


PLAN
1/4"=1'-0"

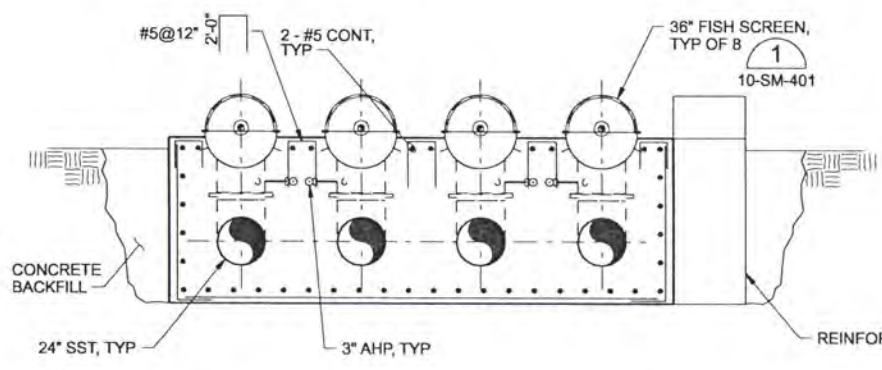


DETAIL 1
1 1/2"=1'-0"

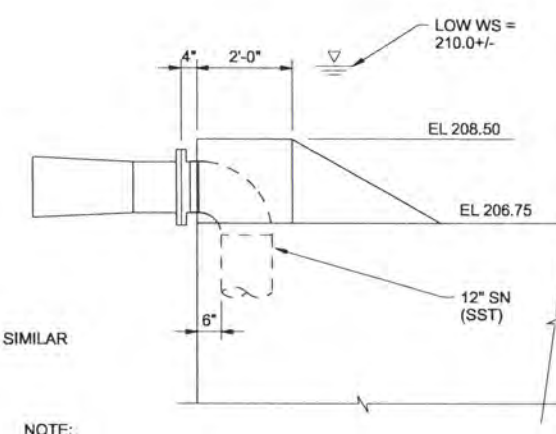
PROVIDE HIGH STRENGTH SILICA FUME CONCRETE IN ACCORDANCE WITH SPECIFICATION SECTION 03351 FOR ENTIRE RAW WATER INTAKE STRUCTURE



SECTION A
1/4"=1'-0"



SECTION B
1/4"=1'-0"



SECTION C
1/2"=1'-0"

NOTE:
1. POUR CONCRETE AGAINST CLEAN ROCK SURFACE. REMOVE LOOSE MATERIAL JUST PRIOR TO CONCRETE POUR.

NOTE:
RIVER GAUGE READINGS 1.6' AT JEFFERSON EQUALS WATER SURFACE 210 AT INTAKE.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DR	ER BROWN						
CHK	SM FREY						
CHK	CL KIRKPATRICK						
APVD	CW MASSIE	6/2006	RECORD DRAWING		JMD	RCF	
		NO.	DATE	REVISION	BY	APVD	

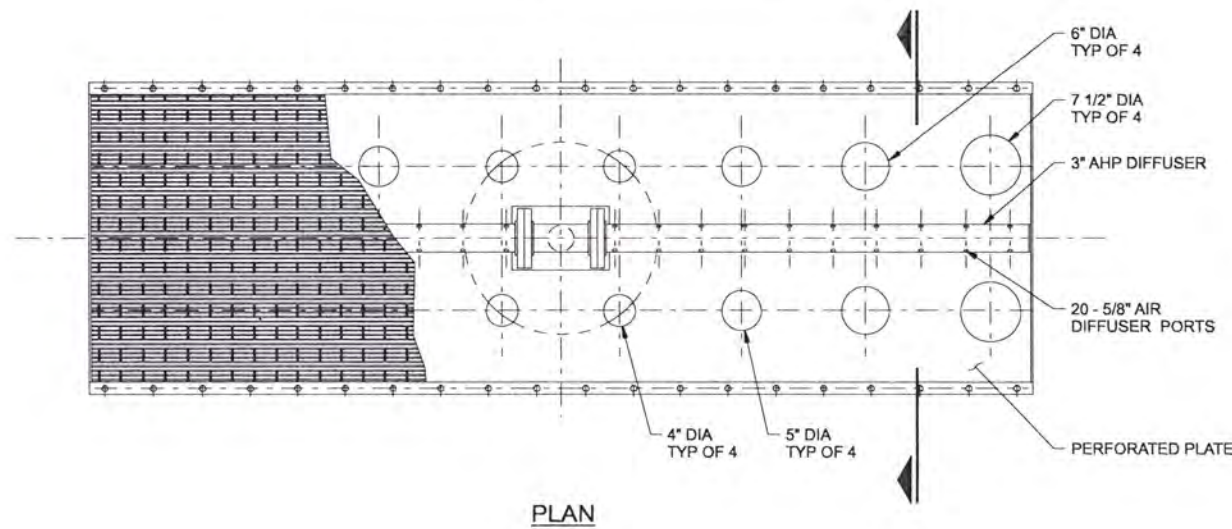
CH2MHILL

ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

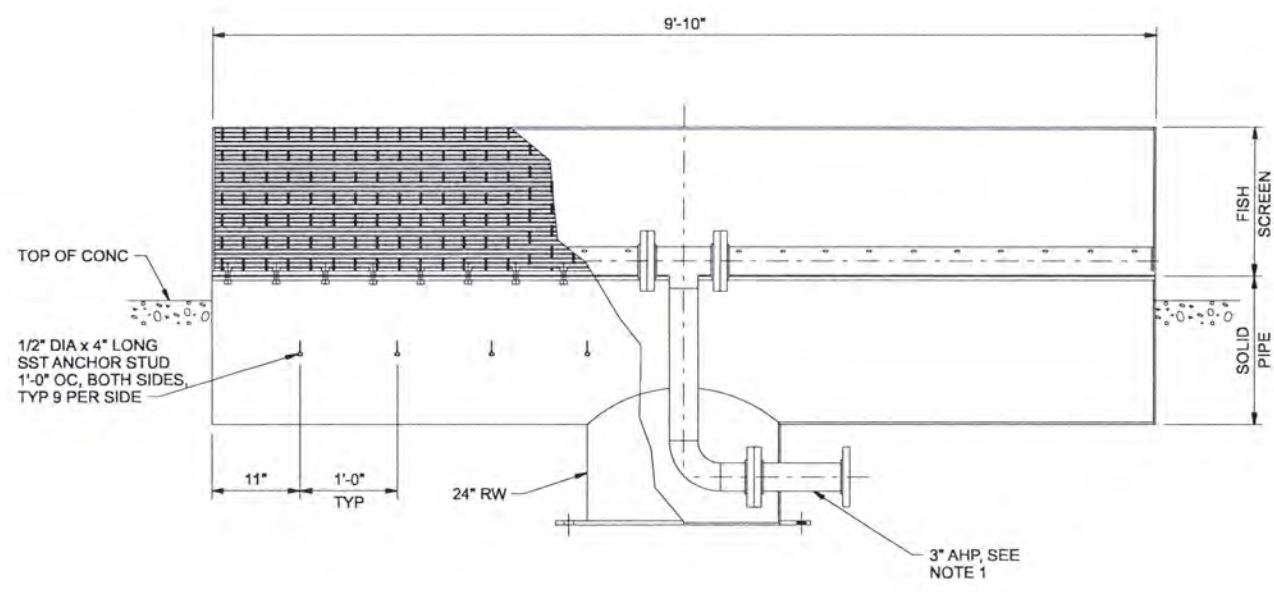
RAW WATER INTAKE AND SUPERNATANT PIPELINES
STRUCTURAL / MECHANICAL
PLAN, SECTIONS AND DETAIL

SHEET	86
DWG	10-SM-131
DATE	APRIL 2004
PROJ	170368

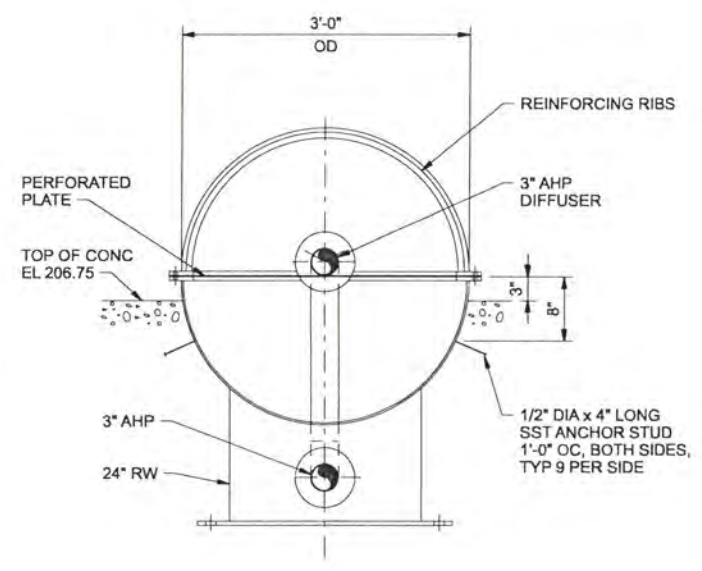
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PLAN



ELEVATION



SECTION

NOTES:
1. ORIENTATION OF 3\"/>

INTAKE SCREEN ASSEMBLY 1
1\"/>

RECORD DRAWINGS

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DSGN	MJ MERRLEIN						
DR	ER BROWN						
CHK	SM FREY	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE			BY	APVD		
		NO.	DATE	REVISION			

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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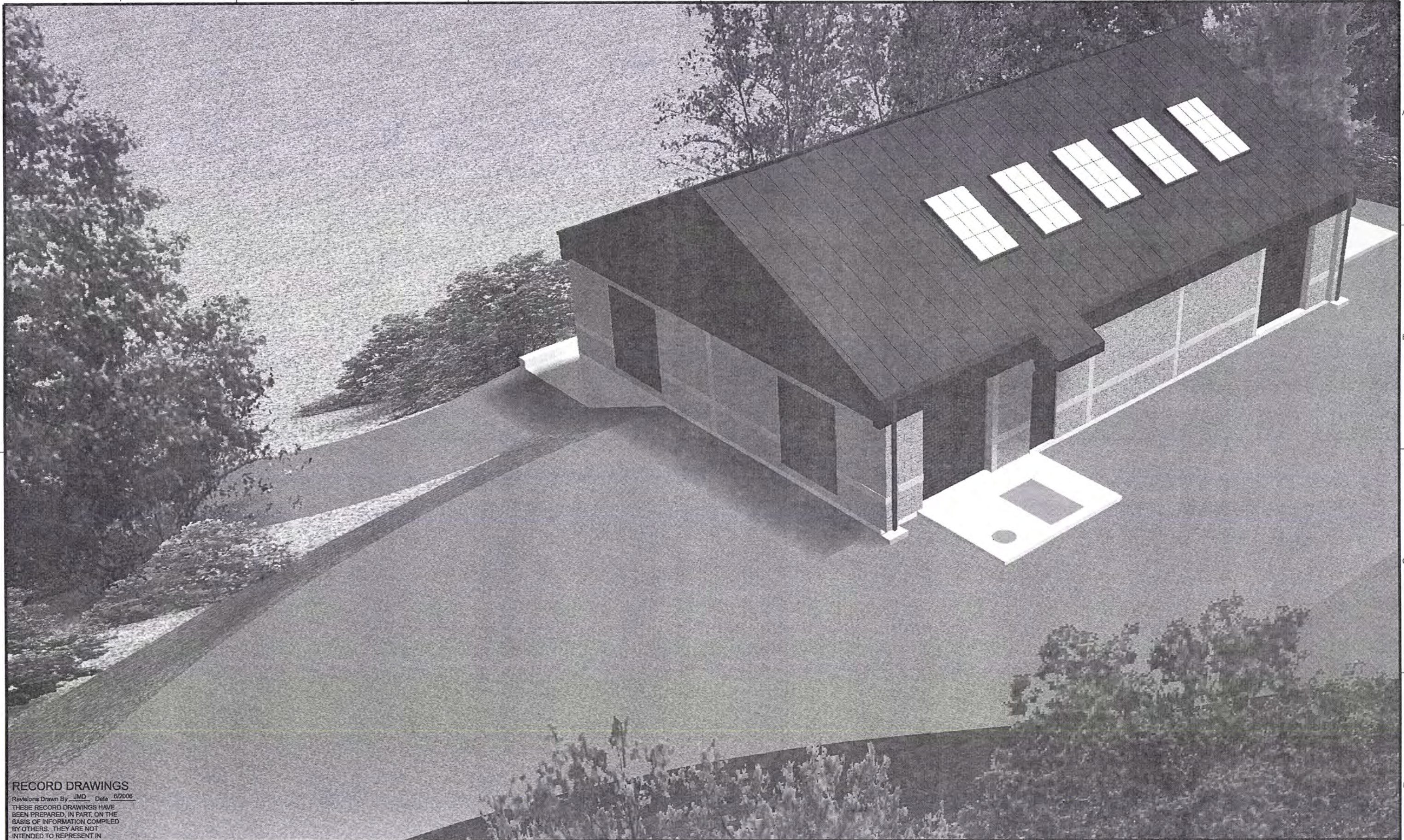


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

RAW WATER INTAKE AND SUPERNATANT PIPELINES
STRUCTURAL / MECHANICAL
INTAKE STRUCTURE
DETAILS

SHEET	87
DWG	10-SM-401
DATE	APRIL 2004
PROJ	170368

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DSGN	JE CAVE						
DR	JA HOSTETTLER						
CHK	EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

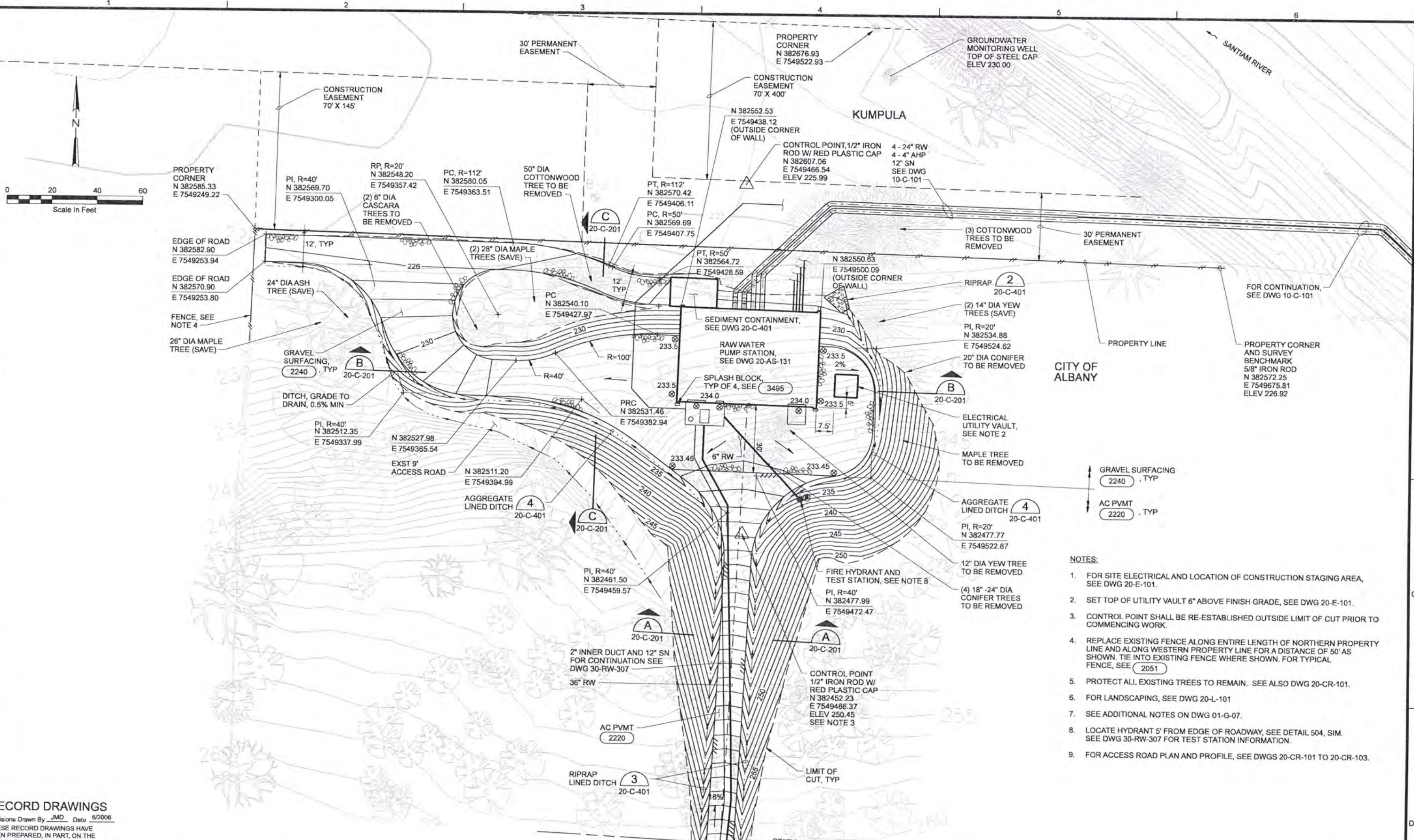
VERIFY SCALE
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CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER PUMP STATION
 RENDERING - SOUTHWEST VIEW

SHEET	88
DWG	20-R-001
DATE	APRIL 2004
PROJ	170368



- NOTES:**
- FOR SITE ELECTRICAL AND LOCATION OF CONSTRUCTION STAGING AREA, SEE DWG 20-E-101.
 - SET TOP OF UTILITY VAULT 6" ABOVE FINISH GRADE, SEE DWG 20-E-101.
 - CONTROL POINT SHALL BE RE-ESTABLISHED OUTSIDE LIMIT OF CUT PRIOR TO COMMENCING WORK.
 - REPLACE EXISTING FENCE ALONG ENTIRE LENGTH OF NORTHERN PROPERTY LINE AND ALONG WESTERN PROPERTY LINE FOR A DISTANCE OF 50' AS SHOWN. TIE INTO EXISTING FENCE WHERE SHOWN. FOR TYPICAL FENCE, SEE 2051
 - PROTECT ALL EXISTING TREES TO REMAIN. SEE ALSO DWG 20-CR-101.
 - FOR LANDSCAPING, SEE DWG 20-L-101
 - SEE ADDITIONAL NOTES ON DWG 01-G-07.
 - LOCATE HYDRANT 5' FROM EDGE OF ROADWAY, SEE DETAIL 504, SIM. SEE DWG 30-RW-307 FOR TEST STATION INFORMATION.
 - FOR ACCESS ROAD PLAN AND PROFILE, SEE DWGS 20-CR-101 TO 20-CR-103.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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NO.	DATE	REVISION	BY	APVD

DSGN	JT ASHLEY					
DR	D FORDHAM					
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF	
APVD	CW MASSIE					

VERIFY SCALE
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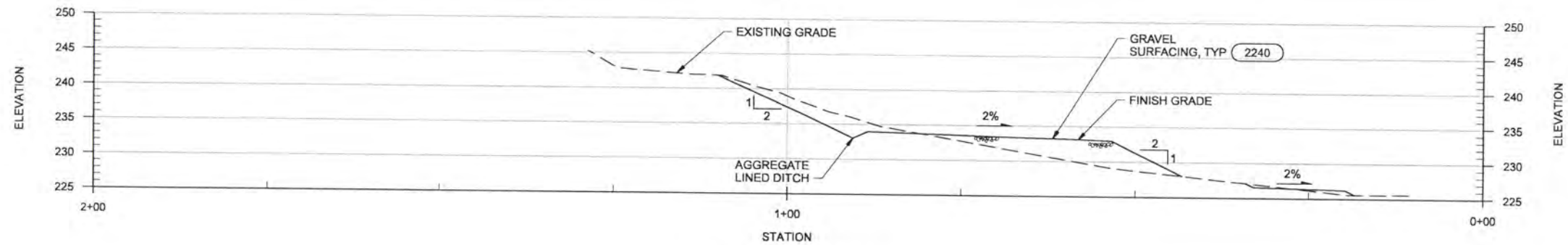
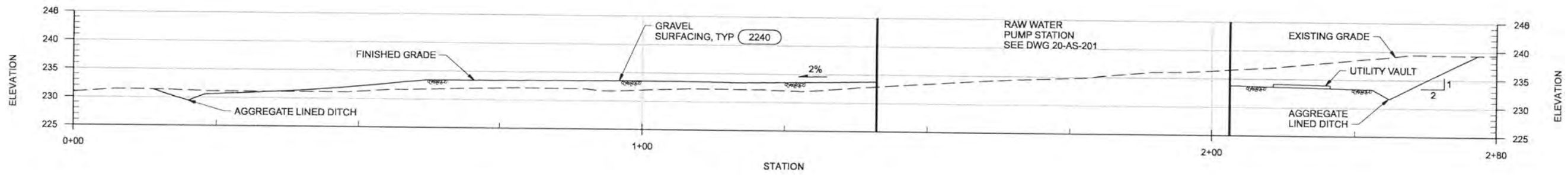
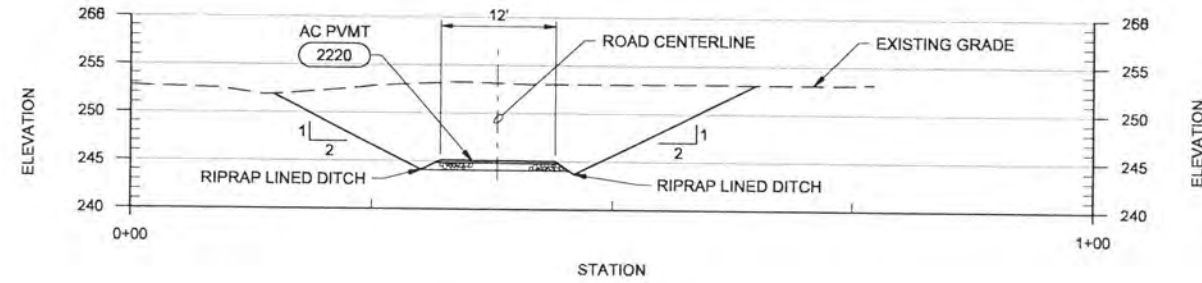
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER PUMP STATION
 CIVIL
 SITE PLAN

SHEET	89
DWG	20-C-101
DATE	APRIL 2004
PROJ	170368

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NOTE:
SEE ADDITIONAL NOTES ON
DRAWINGS 20-C-101 AND 20-CR-201.



RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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DSGN	JT ASHLEY						
DR	JA BOOTH						
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

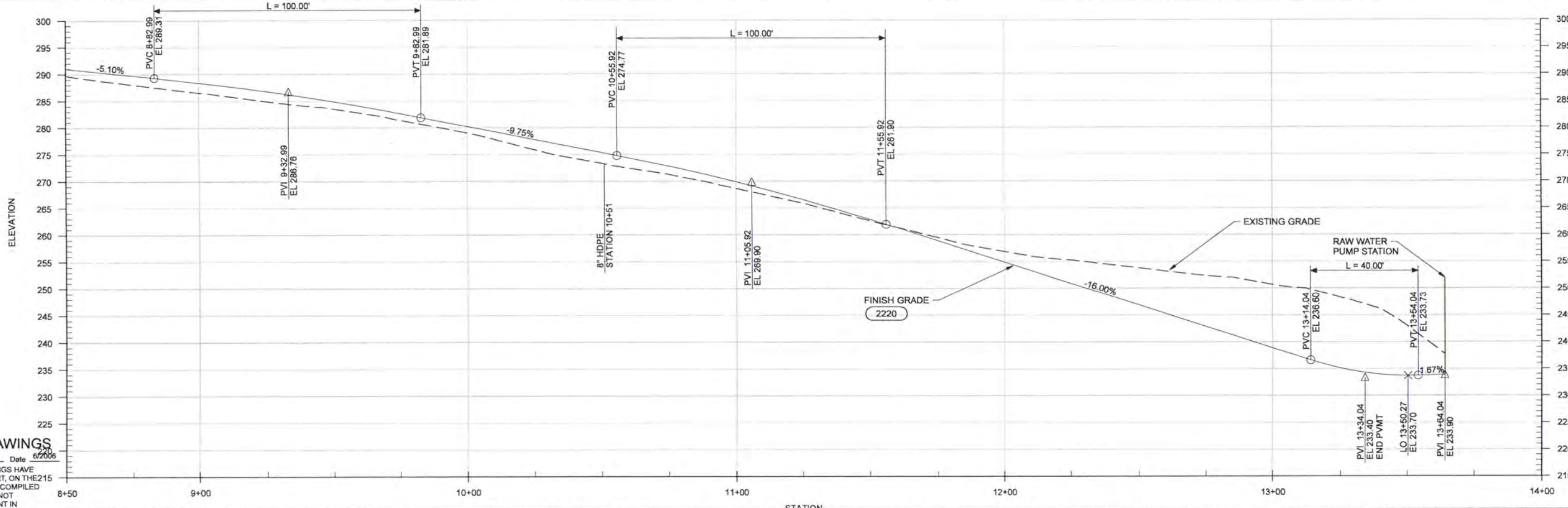
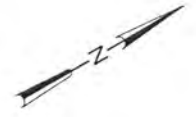
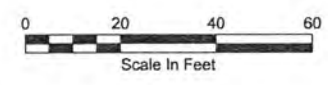
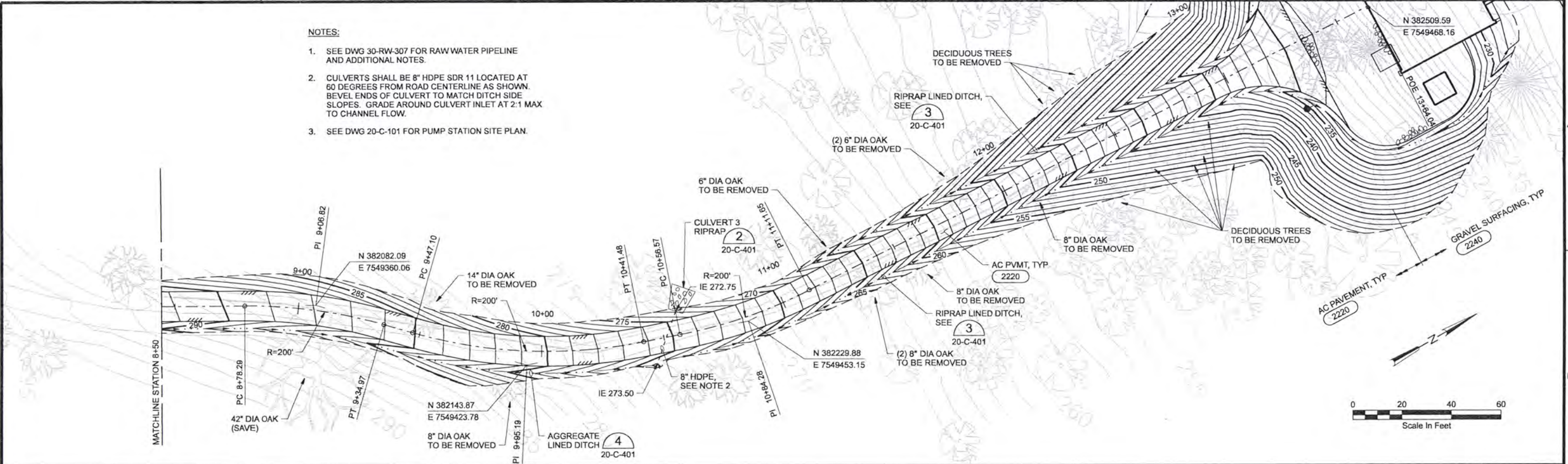
RAW WATER PUMP STATION
CIVIL
SITE SECTIONS

SHEET	90
DWG	20-C-201
DATE	APRIL 2004
PROJ	170368

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NOTES:

- SEE DWG 30-RW-307 FOR RAW WATER PIPELINE AND ADDITIONAL NOTES.
- CULVERTS SHALL BE 8" HDPE SDR 11 LOCATED AT 60 DEGREES FROM ROAD CENTERLINE AS SHOWN. BEVEL ENDS OF CULVERT TO MATCH DITCH SIDE SLOPES. GRADE AROUND CULVERT INLET AT 2:1 MAX TO CHANNEL FLOW.
- SEE DWG 20-C-101 FOR PUMP STATION SITE PLAN.



RECORD DRAWINGS

Revisions Drawn By **JMD** Date **6/2006**
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DSGN	JT ASHLEY	NO.	6/2006	RECORD DRAWING	BY	JMD	RCF	VERIFY SCALE
DR	JT ASHLEY	NO.			BY	APVD		BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	WB WAGNER	NO.			BY			IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APVD	CW MASSIE	NO.			BY			

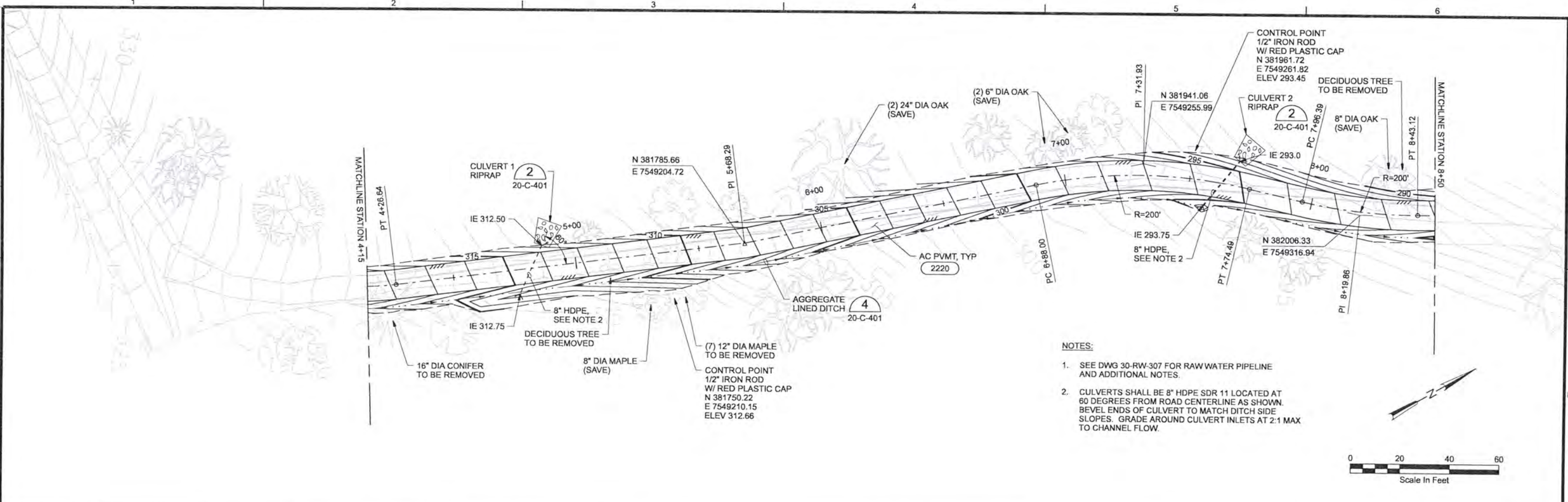


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 LINN COUNTY, OREGON

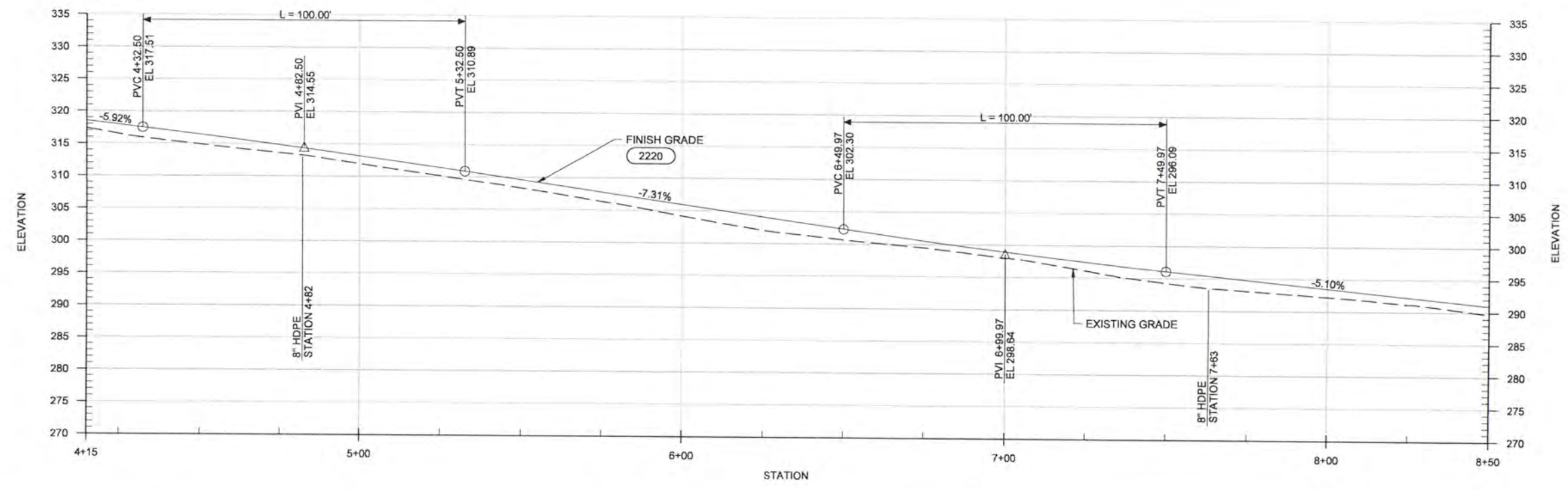
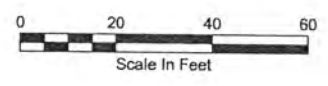
RAW WATER PUMP STATION
 CIVIL
 ACCESS ROAD PLAN AND PROFILE
 STATION 8+50 TO STATION 13+64

SHEET	92
DWG	20-CR-101
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
- SEE DWG 30-RW-307 FOR RAW WATER PIPELINE AND ADDITIONAL NOTES.
 - CULVERTS SHALL BE 8" HDPE SDR 11 LOCATED AT 60 DEGREES FROM ROAD CENTERLINE AS SHOWN. BEVEL ENDS OF CULVERT TO MATCH DITCH SIDE SLOPES. GRADE AROUND CULVERT INLETS AT 2:1 MAX TO CHANNEL FLOW.



RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	JT ASHLEY				
DR	JT ASHLEY				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE			BY	APVD
		NO.	DATE	REVISION	

VERIFY SCALE
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 0 = 1' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



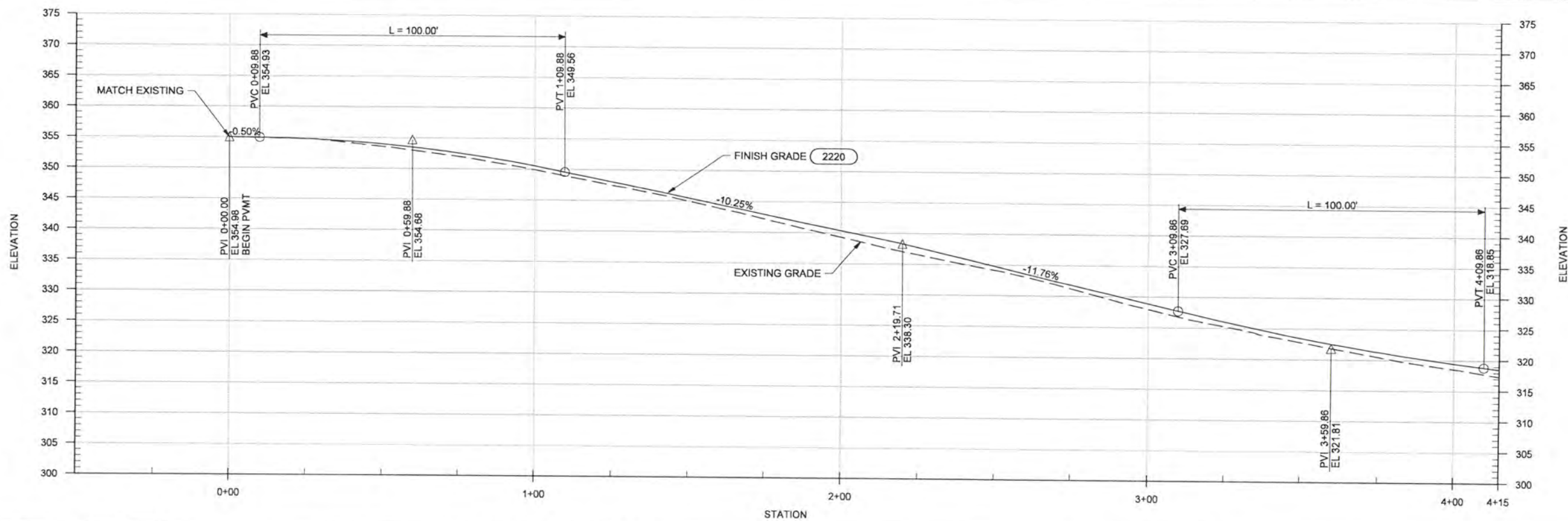
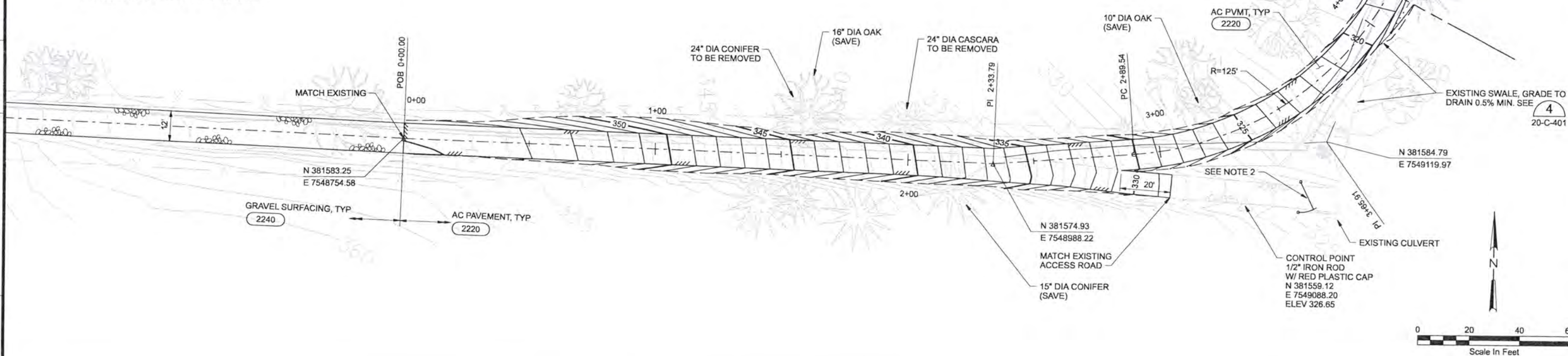
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER PUMP STATION
 CIVIL
 ACCESS ROAD PLAN AND PROFILE
 STATION 4+15 TO STATION 8+50

SHEET	93
DWG	20-CR-102
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
- SEE DWG 30-RW-306 FOR RAW WATER PIPELINE, CONTRACTOR STAGING AREA, AND ADDITIONAL NOTES.
 - INSTALL NEW 12' WIDE, SINGLE PANEL "LIFETIME" STEEL GATE. GATE POSTS SHALL BE 4" SQUARE STEEL TUBE SET 2' INTO GROUND AND BACKFILLED WITH CONCRETE.



RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	JT ASHLEY				
DR	JT ASHLEY				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE			BY	APVD

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
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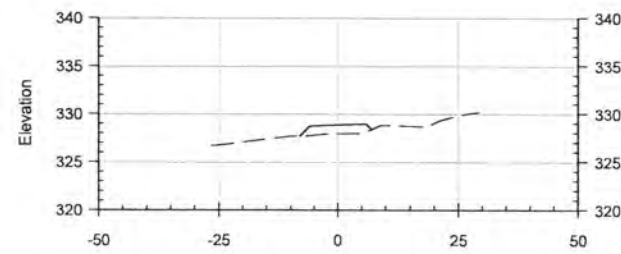
CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

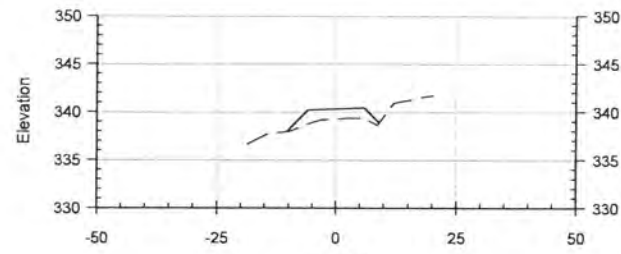
RAW WATER PUMP STATION
 CIVIL
 ACCESS ROAD PLAN AND PROFILE
 STATION 0+00 TO STATION 4+15

SHEET	94
DWG	20-CR-103
DATE	APRIL 2004
PROJ	170368

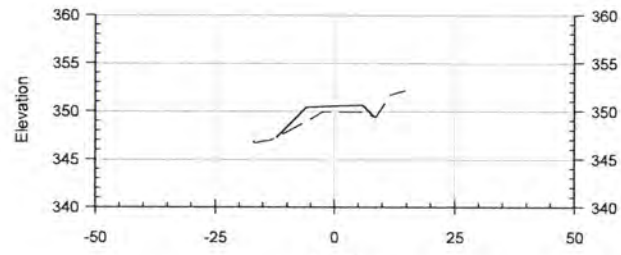
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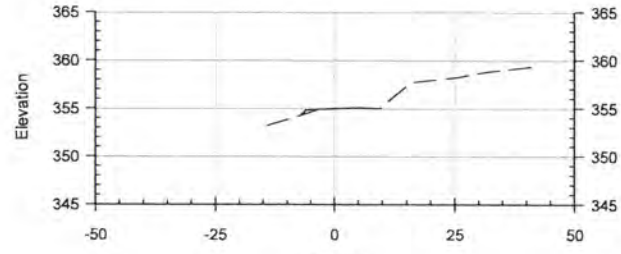
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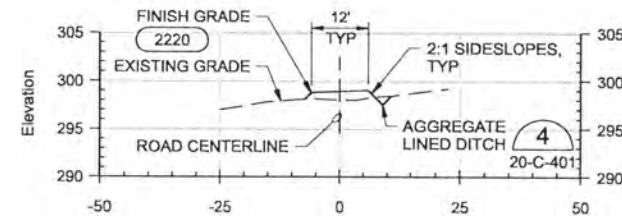
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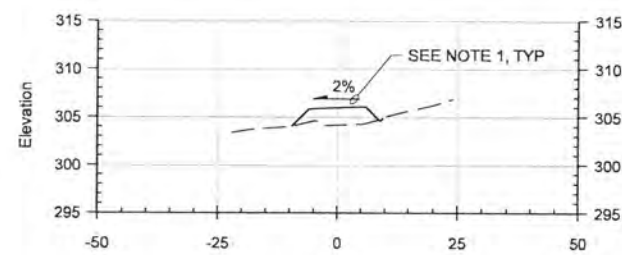
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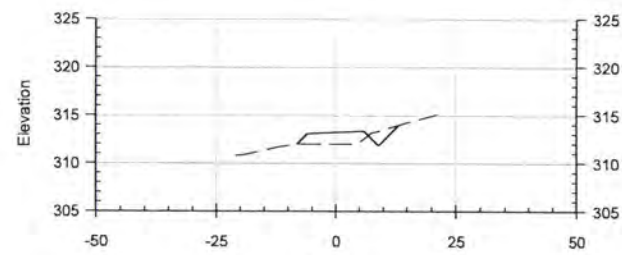
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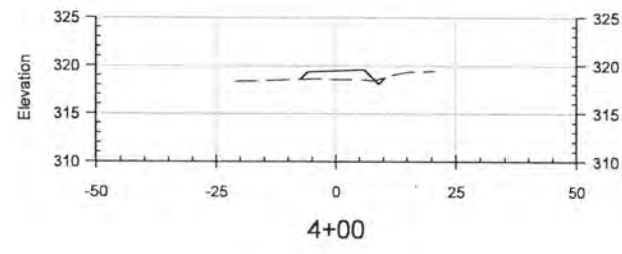
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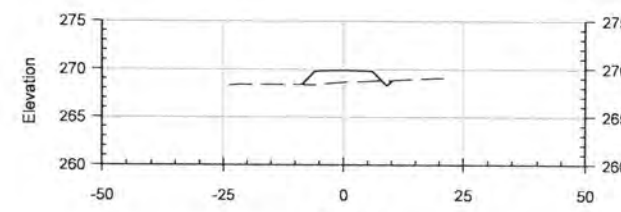
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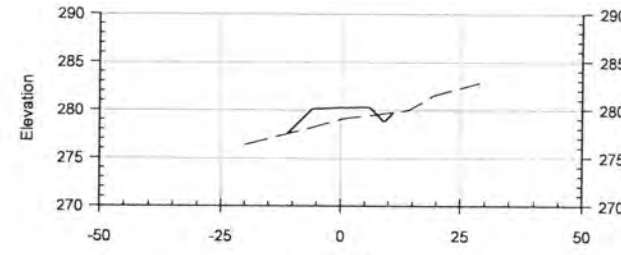
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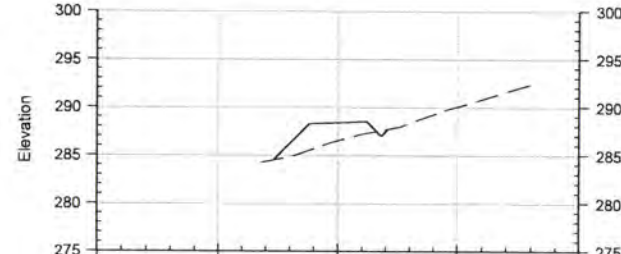
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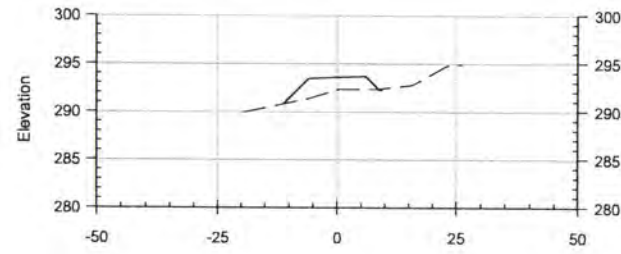
11+00



10+00

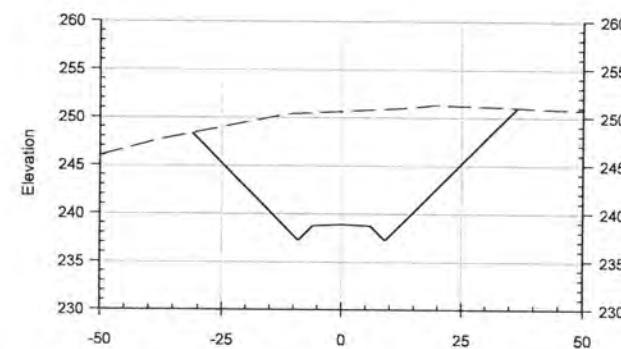


9+00

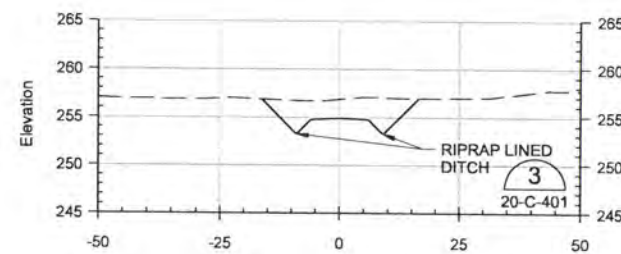


8+00

- NOTES:
- ROADWAY CROSS SLOPES SHALL BE AS FOLLOWS:
STATION 0+00 TO STATION 9+20, SHED AT 2%.
STATION 9+20 TO STATION 11+20, TRANSITION FROM SHED TO 2% NORMAL CROWN.
STATION 11+20 TO STATION 13+34, 2% NORMAL CROWN.
 - SEE DRAWINGS 20-CR-101 TO 20-CR-103 FOR SURFACING AND DITCH PROTECTION TYPES.



13+00



12+00

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	JT ASHLEY						
DR	JT ASHLEY						
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

ACCESS ROAD CROSS SECTIONS

HORIZ: 1"=20'
VERT: 1"=10'

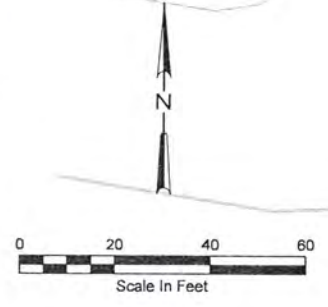
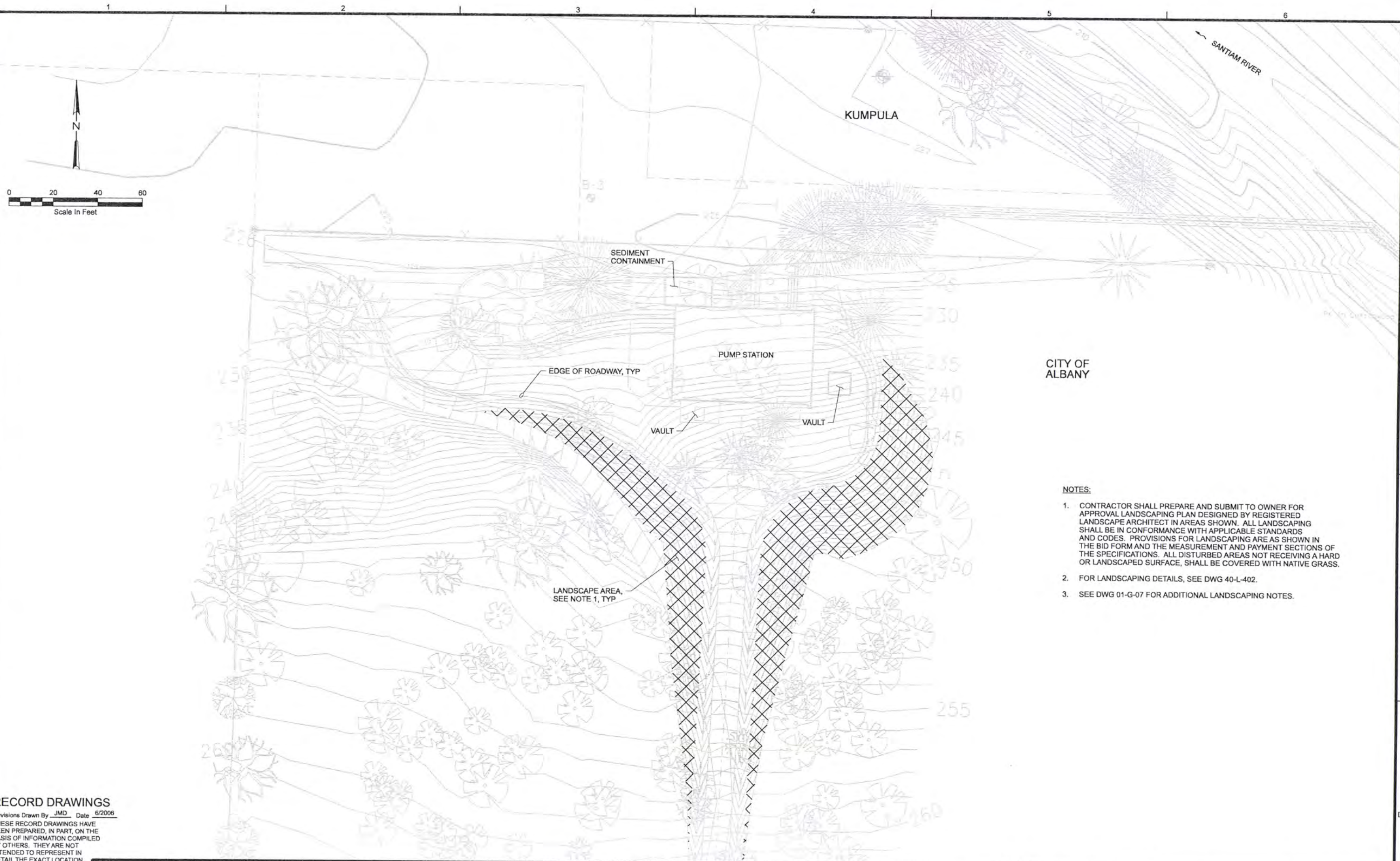


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

RAW WATER PUMP STATION
CIVIL
ACCESS ROAD SECTIONS

SHEET	95
DWG	20-CR-201
DATE	APRIL 2004
PROJ	170368

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CITY OF ALBANY

NOTES:

1. CONTRACTOR SHALL PREPARE AND SUBMIT TO OWNER FOR APPROVAL LANDSCAPING PLAN DESIGNED BY REGISTERED LANDSCAPE ARCHITECT IN AREAS SHOWN. ALL LANDSCAPING SHALL BE IN CONFORMANCE WITH APPLICABLE STANDARDS AND CODES. PROVISIONS FOR LANDSCAPING ARE AS SHOWN IN THE BID FORM AND THE MEASUREMENT AND PAYMENT SECTIONS OF THE SPECIFICATIONS. ALL DISTURBED AREAS NOT RECEIVING A HARD OR LANDSCAPED SURFACE, SHALL BE COVERED WITH NATIVE GRASS.
2. FOR LANDSCAPING DETAILS, SEE DWG 40-L-402.
3. SEE DWG 01-G-07 FOR ADDITIONAL LANDSCAPING NOTES.

RECORD DRAWINGS

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DSGN	JT ASHLEY
DR	JT ASHLEY
CHK	WB WAGNER
APVD	CW MASSIE

NO.	DATE	REVISION
	6/2006	RECORD DRAWING

JMD	RCF
BY	APVD

VERIFY SCALE
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 0 = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

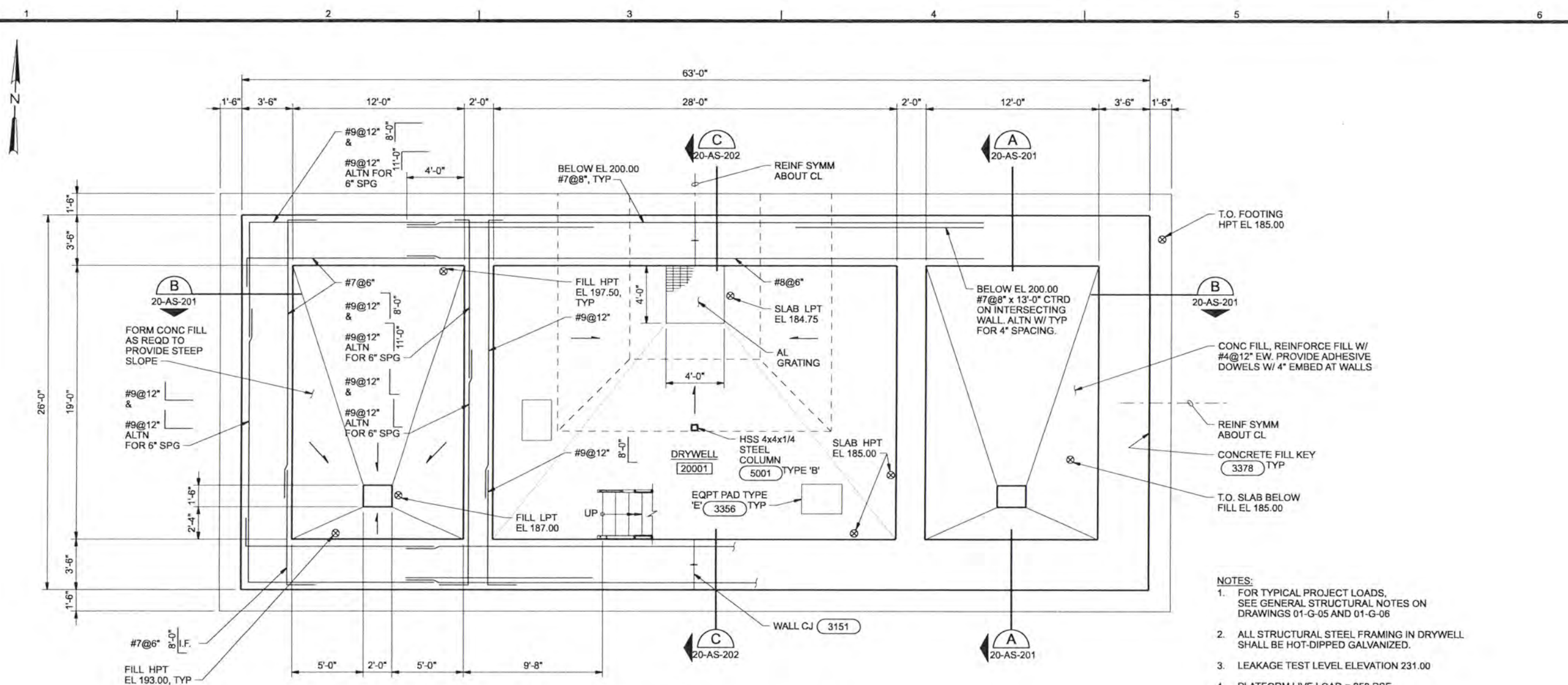


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER PUMP STATION
 LANDSCAPING PLAN

SHEET	96
DWG	20-L-101
DATE	APRIL 2004
PROJ	170368

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LOWER LEVEL FOUNDATION PLAN
1/4"=1'-0"

- NOTES:**
- FOR TYPICAL PROJECT LOADS, SEE GENERAL STRUCTURAL NOTES ON DRAWINGS 01-G-05 AND 01-G-06
 - ALL STRUCTURAL STEEL FRAMING IN DRYWELL SHALL BE HOT-DIPPED GALVANIZED.
 - LEAKAGE TEST LEVEL ELEVATION 231.00
 - PLATFORM LIVE LOAD = 250 PSF.
 - GROUND LEVEL SLAB LIVE LOAD = 200 PSF.
 - STAIR LIVE LOAD = 100 PSF.
 - SETTLING CHAMBER GRATING LIVE LOAD = 100 PSF.

BEAM NO. (SEE PLANS)	SIZE		TOP REINF AT LEFT SUPPORT		BOTTOM REINF		* TOP REINF AT RIGHT SUPPORT		S BARS	SHEAR REINF		REMARKS
	W	D	T	TC	B	BC	T	TC		NO. SIZE	SPACING FROM LEFT SUPPORT	
B20-1	12"	24"	2 - #7	2 - #7	-	2 - #7	2 - #7	2 - #7	#5	#3	6@6", 10 MAX, 6@6"	2 ROWS OF 2 BARS TOP, CONTINUE LEFT 'TC' BARS 5'-0" INTO PARALLEL WALL
B20-2	12"	18"	-	2 - #6	-	2 - #6	-	2 - #6	#5	#3	6" OC	
B20-3	12"	30"	3 - #7	3 - #7	2 - #7	2 - #7	3 - #7	3 - #7	#5	#3	14@6", 12" MAX, 14@6"	2 ROWS OF 2 BARS AT ALL LOCATIONS

- NOTES:**
- * TOP REINFORCING MAY BE CALLED-OUT TWICE IN SCHEDULE. (I.E. "TOP REINFORCING AT RIGHT SUPPORT" OF BEAM THAT IS CONTINUOUS OVER THE RIGHT SUPPORT IS CALLED-OUT AS "TOP REINFORCING AT LEFT SUPPORT" OF ADJACENT BEAM.)
 - LEFT SUPPORT IS DESIGNATED AS THE SUPPORT CLOSEST TO THE LEFT SIDE OR BOTTOM OF SHEET ON WHICH FRAMING PLAN IS DRAWN, UNLESS NOTED OTHERWISE ON PLAN.
 - FOR DETAIL, SEE (3366)

BEAM SCHEDULE

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	MJ MERKLEIN												
DR	KJ DAVIS												
CHK	SM FREY	6/2006	RECORD DRAWING			JMD	RCF						
APVD	CW MASSIE	NO.	DATE	REVISION		BY	APVD						

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

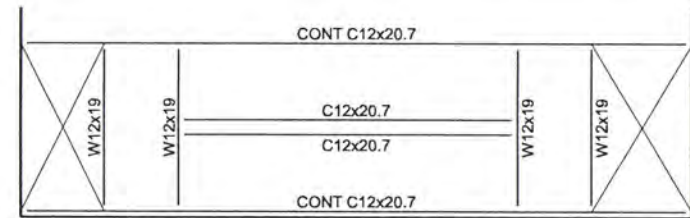
RAW WATER PUMP STATION
 STRUCTURAL
 LOWER LEVEL FOUNDATION PLAN

SHEET	97
DWG	20-S-130
DATE	APRIL 2004
PROJ	170368

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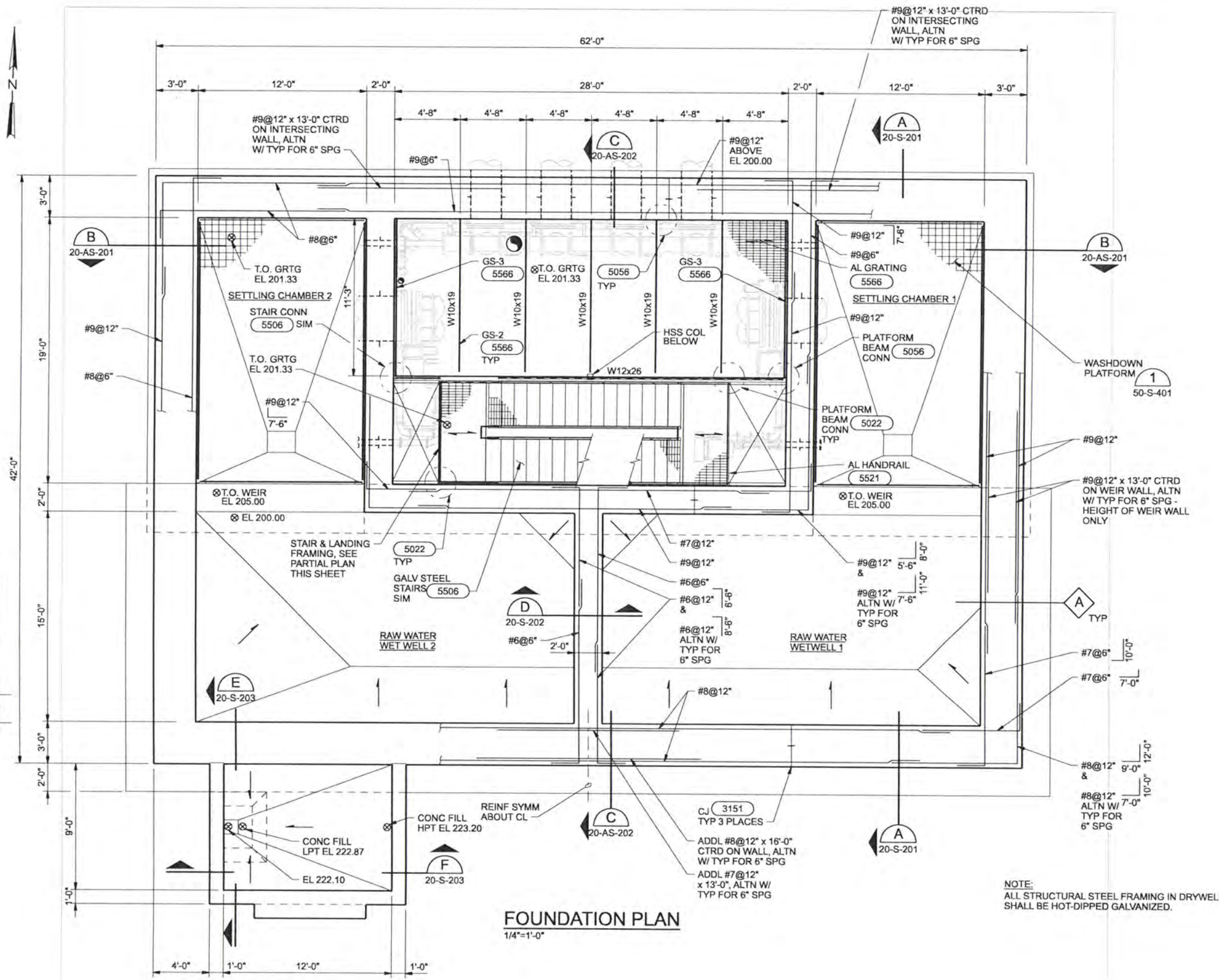
CODE DATA (1997 UBC)

OCCUPANCY:	DRY WELL PUMP ROOM	F-2 F-2
CONSTRUCTION TYPE:	II-N	
ALLOWABLE FLOOR AREA:	18,000 sq. ft.	
ACTUAL FLOOR AREA:	532 sq. ft. (2.95%) DRY WELL PUMP ROOM	2,604 sq. ft. (14.47%)
ALLOWABLE HEIGHT:	2 STORIES, 55 FEET	
ACTUAL HEIGHT:	1 STORY, 18 FEET	
OCCUPANT LOAD (CALCULATED):	2 DRY WELL PUMP ROOM	9
OCCUPANT LOAD (ACTUAL):	NOT NORMALLY OCCUPIED	



NOTE:
BEAM TO STRINGER
CONNECTION
TYPICAL.

STAIR LANDING FRAMING PLAN
1/4"=1'-0"



FOUNDATION PLAN
1/4"=1'-0"

NOTE:
ALL STRUCTURAL STEEL FRAMING IN DRYWELL
SHALL BE HOT-DIPPED GALVANIZED.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	MJ MERKLEIN				
DR	WB LOVE				
CHK	SM FREY	6/2006	RECORD DRAWING		
APVD	CW MASSIE				
		NO.	DATE	REVISION	BY

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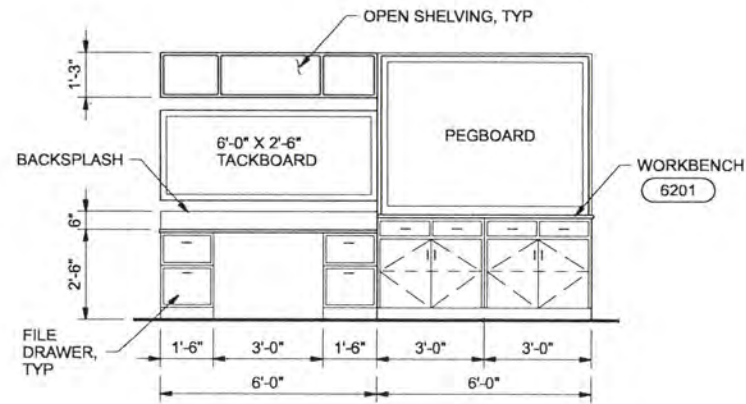
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

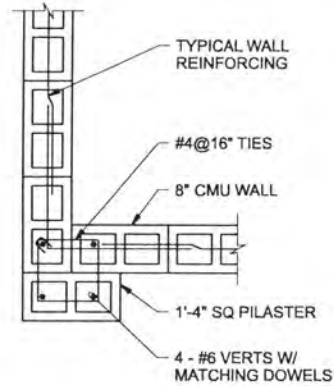
RAW WATER PUMP STATION
ARCHITECTURAL / STRUCTURAL
FOUNDATION PLAN

SHEET	98
DWG	20-AS-131
DATE	APRIL 2004
PROJ	170368

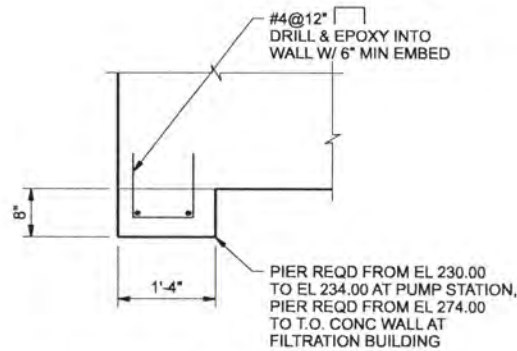
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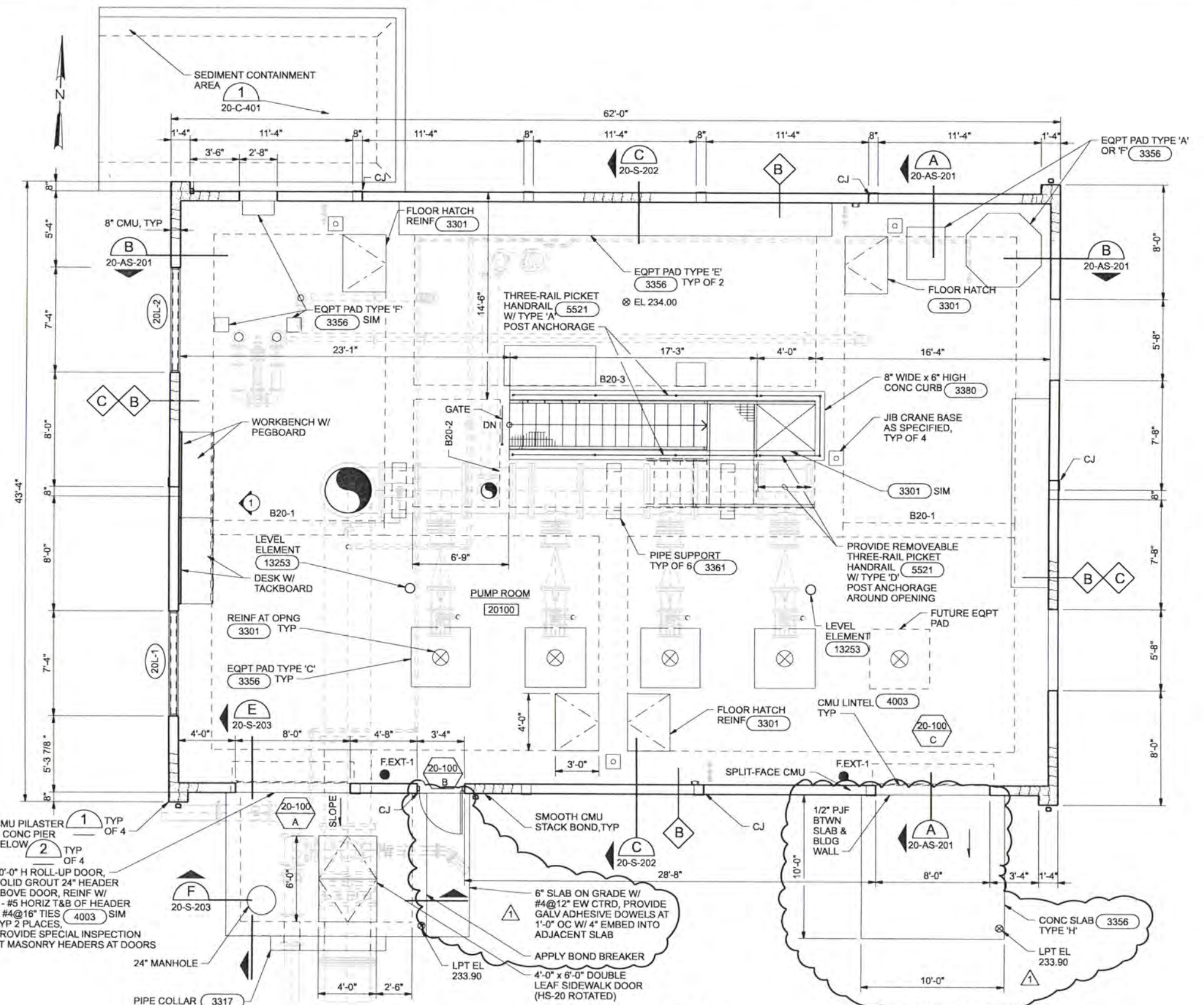
ROOM 20100 ELEVATION 1
3/8"=1'-0"



CMU PILASTER 1
3/4"=1'-0"



CONCRETE PIER 2
3/4"=1'-0"



UPPER FLOOR PLAN
1/4"=1'-0"

RECORD DRAWINGS
Revisions Drawn By: JMD Date: 6/2006
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DSGN	MJ MERKLEIN				
DR	KJ DAVIS				
CHK	SM FREY				
APVD	EB PIETERICK				
	CW MASSIE	NO.	DATE	REVISION	

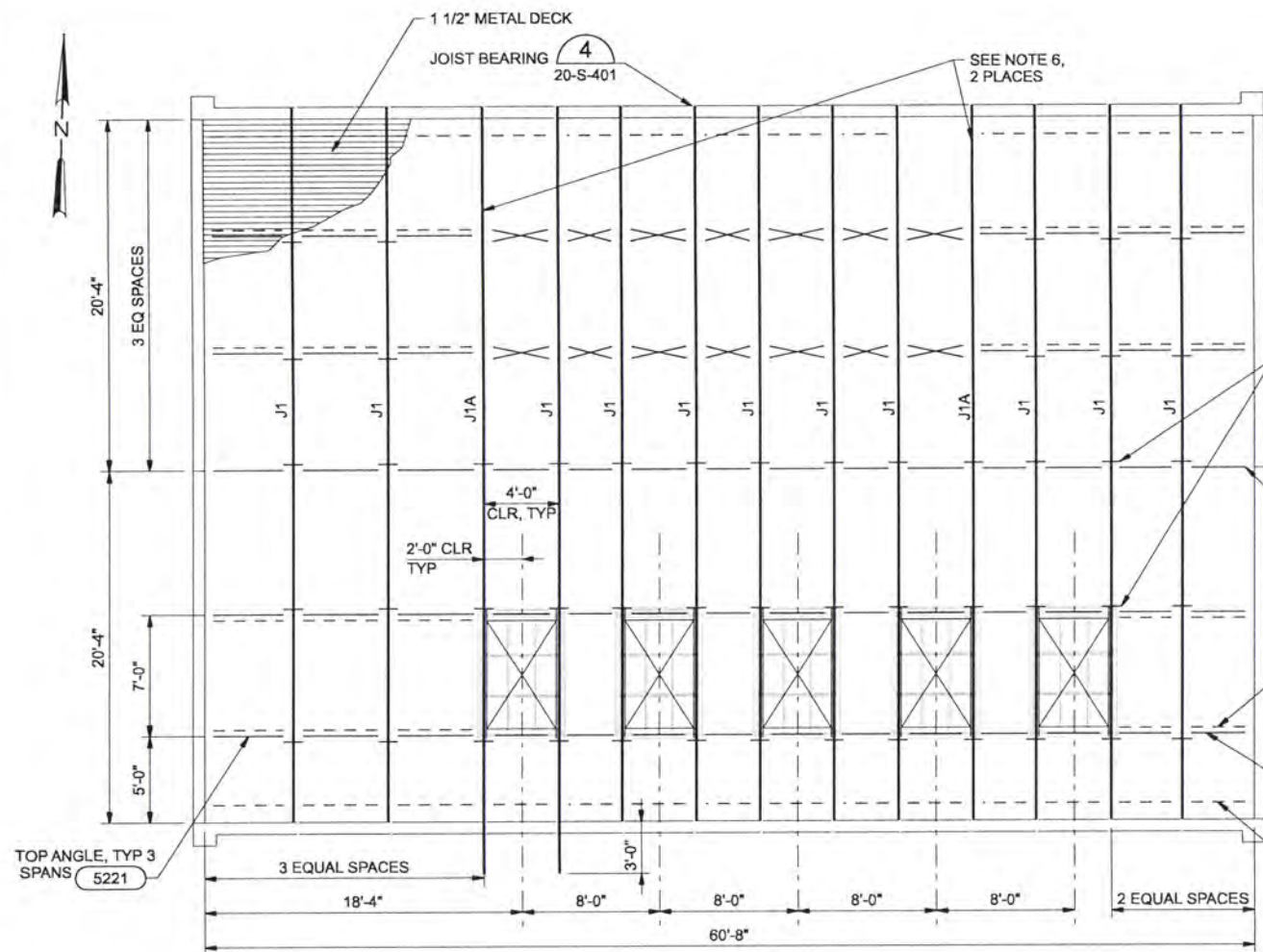
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

RAW WATER PUMP STATION	SHEET	99
ARCHITECTURAL / STRUCTURAL	DWG	20-AS-141
UPPER FLOOR PLAN, DETAILS	DATE	APRIL 2004
AND INTERIOR ELEVATION	PROJ	170368

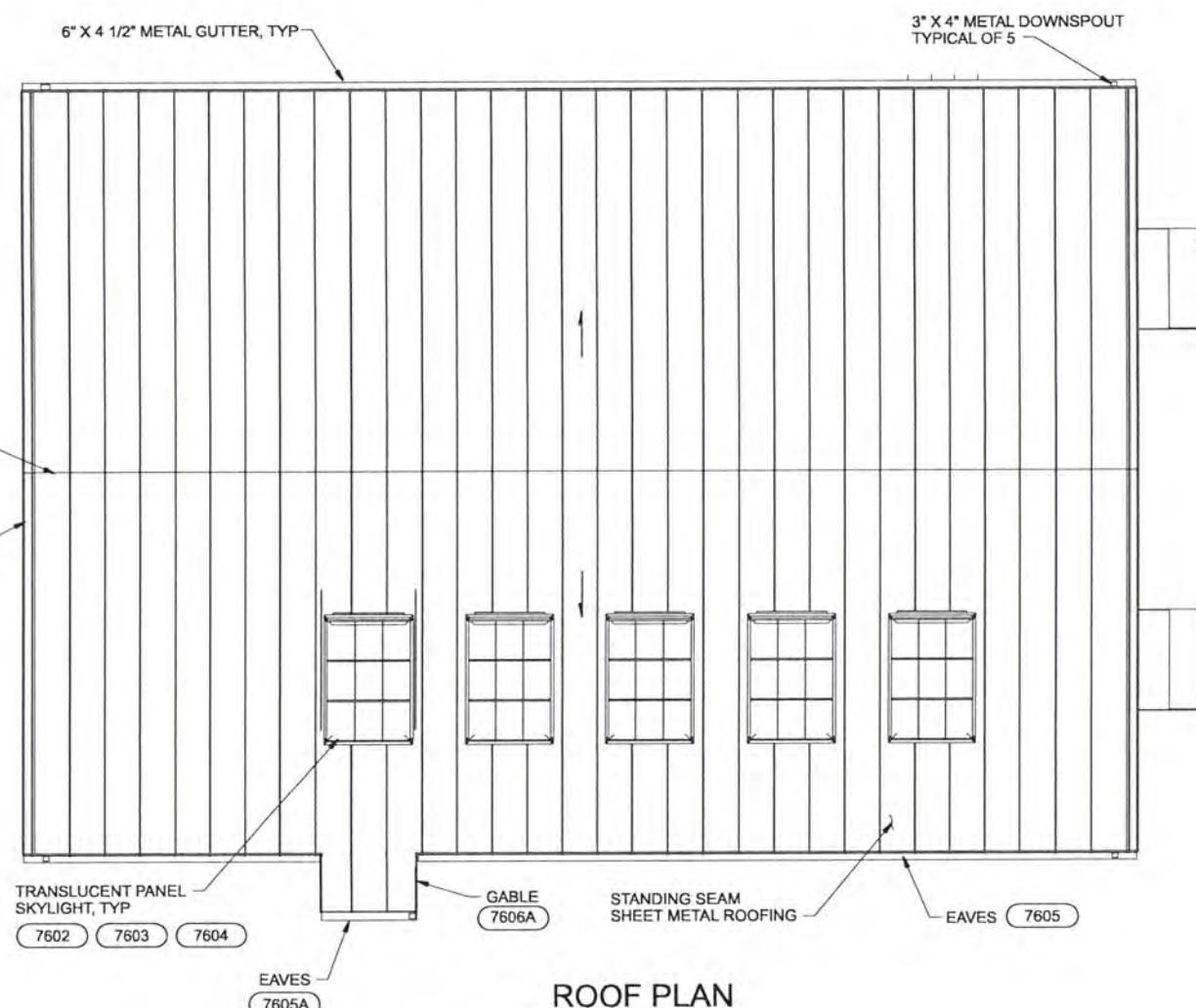
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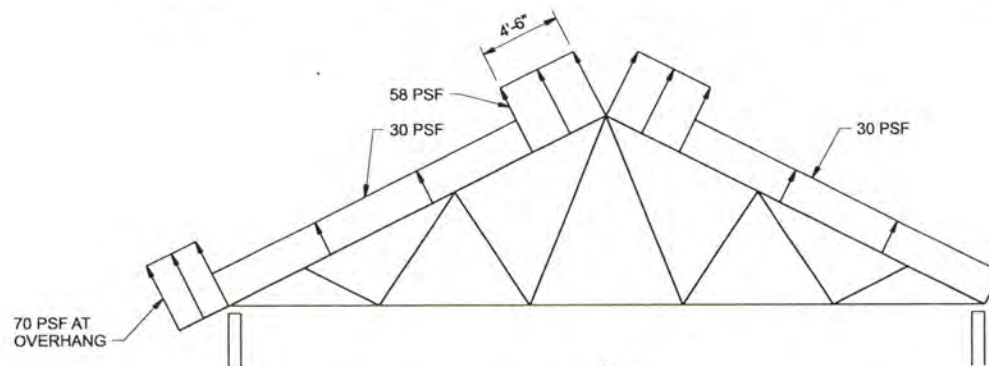
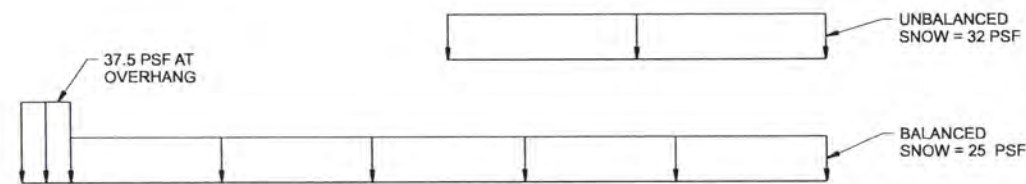
ROOF FRAMING PLAN
3/16"=1'-0"

NOTES:

- DESIGN LOADS:
 - ROOF LIVE LOAD = 25 PSF
- FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 01-G-005 & 01-G-006.
- ROOF DECKING NOTES:
 - ROOF DECK SHALL BE 1 1/2" x 20 GAGE GALVANIZED STEEL ROOF DECKING WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
 - I = 0.212 IN⁴
 - S_x = 0.234 IN³
 - S_y = 0.247 IN³
 - ROOF DECK SHALL BE ATTACHED TO ALL SUPPORTS AS FOLLOWS:
 - SUPPORTS PERPENDICULAR TO DECK SPAN: 3 - 5/8" DIAMETER PUDDLE WELDS PER 36" WIDE PANEL (MINIMUM), UNO
 - SUPPORTS PARALLEL TO DECK SPAN: 5/8" DIAMETER PUDDLE WELDS AT 12" ON CENTER (MINIMUM)
 - DECK SEAMS PARALLEL TO DECK SPAN: TOP SEAM WELD AT 18" ON CENTER (MINIMUM)
 - WELD ROOF DECK TO OPENING FRAMING AND MISCELLANEOUS FRAMING WITH 5/8" DIAMETER PUDDLE WELDS AT 6" ON CENTER MAXIMUM, BUT NOT LESS THAN 3 WELDS PER MEMBER.
 - FASTENING OF DECK SHALL DEVELOP A MINIMUM OF 330 POUNDS PER FOOT.
 - DESIGN JOIST J1A FOR ADDITIONAL AXIAL COMPRESSION OR TENSION OF 3.5 KIPS.
 - SEE JOIST LOADING DIAGRAM ON THIS SHEET.



ROOF PLAN
3/16"=1'-0"



WIND
JOIST LOADING DIAGRAM

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DRG	MJ MERKLEIN				
CHK	JF CAVE				
CHK	KJ DAVIS				
CHK	WB LOVE				
CHK	SM FREY	6/2006	RECORD DRAWING	JMD	RCF
CHK	EB PIETERICK				
APVD	CW MASSIE	NO.	DATE	BY	APVD

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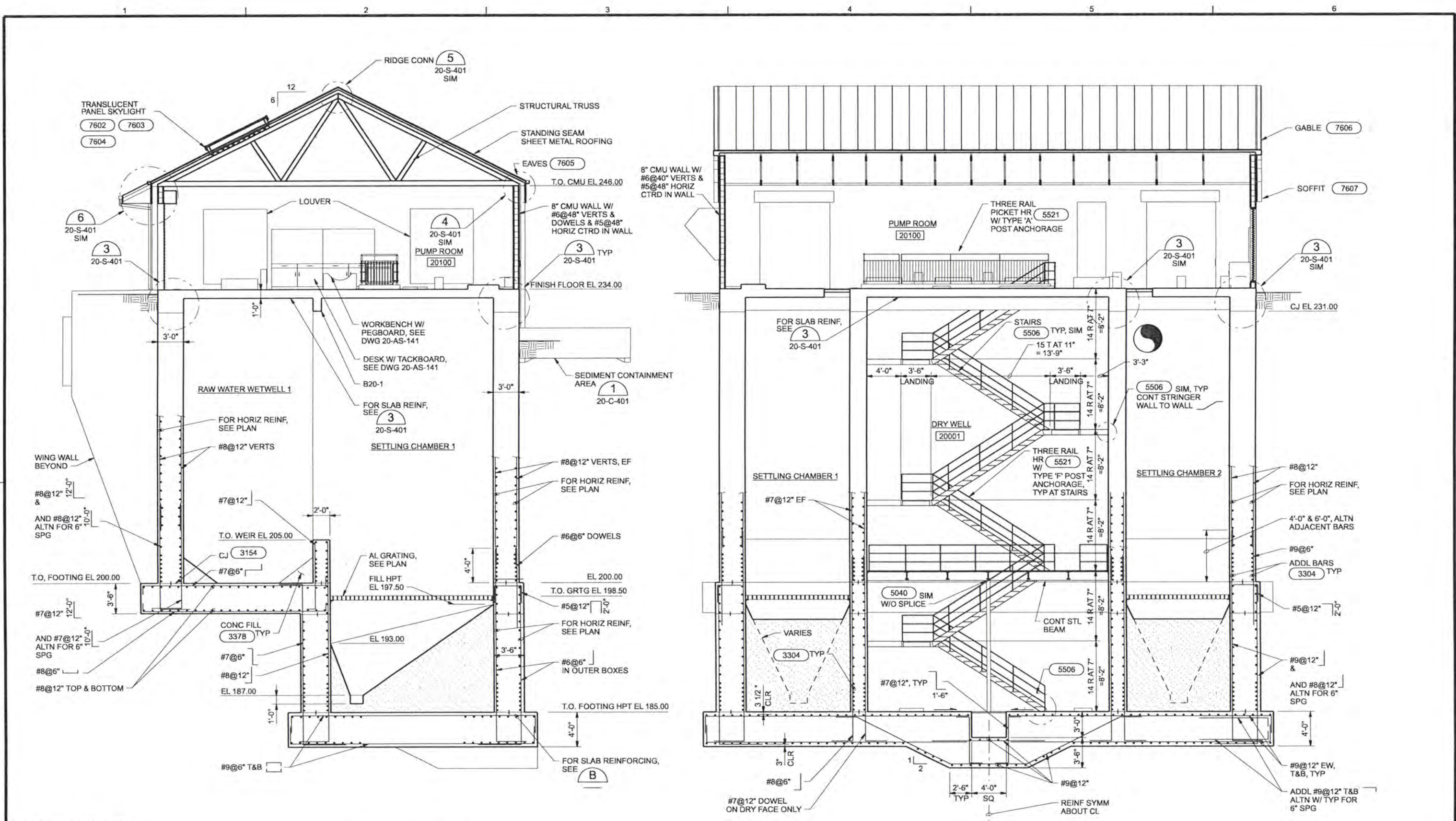
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER PUMP STATION
 ARCHITECTURAL / STRUCTURAL
 ROOF FRAMING PLANS AND BEAM SCHEDULES

SHEET	100
DWG	20-AS-151
DATE	APRIL 2004
PROJ	170368

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DSGN	MJ MERKLEIN				
DR	KJ DAVIS WB LOVE				
CHK	SM FREY EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	REVISION	BY

SECTION A
 3/16"=1'-0"
 20-AS-130
 20-AS-131
 20-AS-141
 20-S-401

SECTION B
 3/16"=1'-0"
 20-AS-130
 20-AS-131
 20-AS-141

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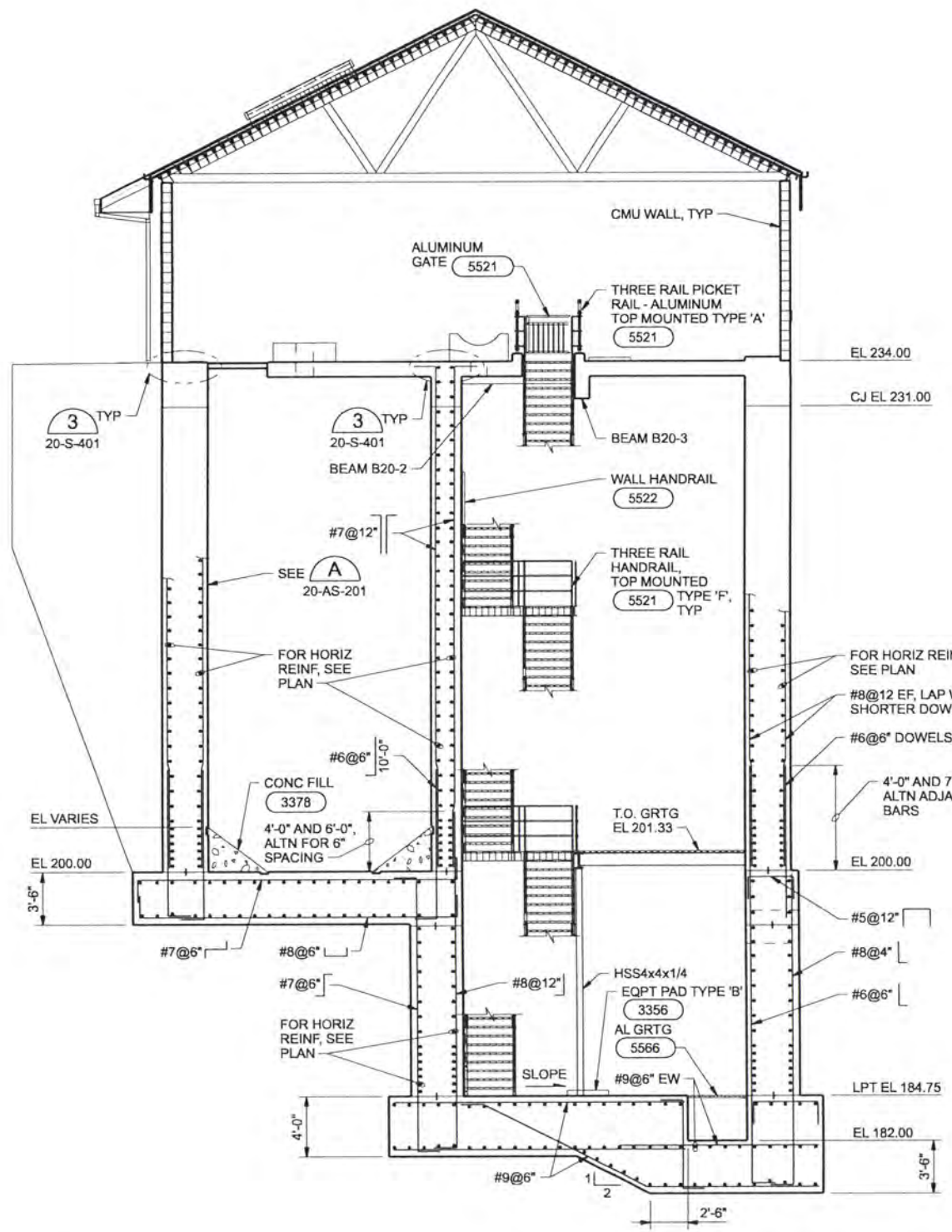


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

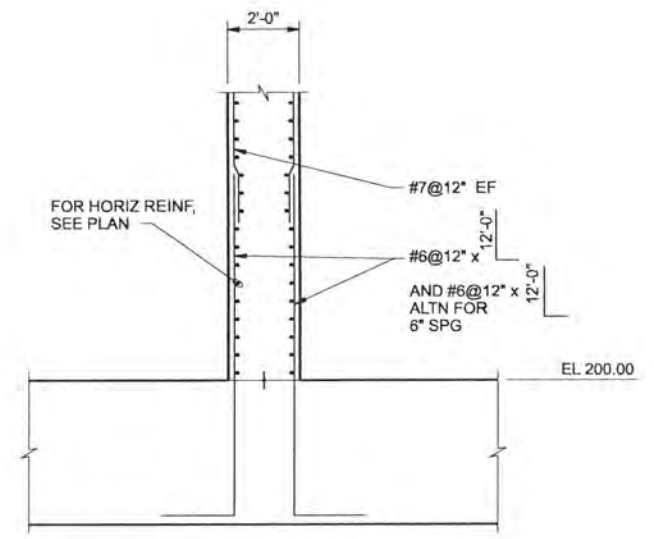
RAW WATER PUMP STATION
 ARCHITECTURAL / STRUCTURAL
 SECTIONS

SHEET	101
DWG	20-AS-201
DATE	APRIL 2004
PROJ	170368

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SECTION C
 3/16"=1'-0" 20-S-130, 20-AS-131
 20-AS-141, 20-AS-151



SECTION D
 3/8"=1'-0" 20-AS-131

RECORD DRAWINGS

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DSGN	MJ MERKLEIN						
DR	KJ DAVIS						
CHK	SM FREY	6/2006	RECORD DRAWING		JMD	RCF	
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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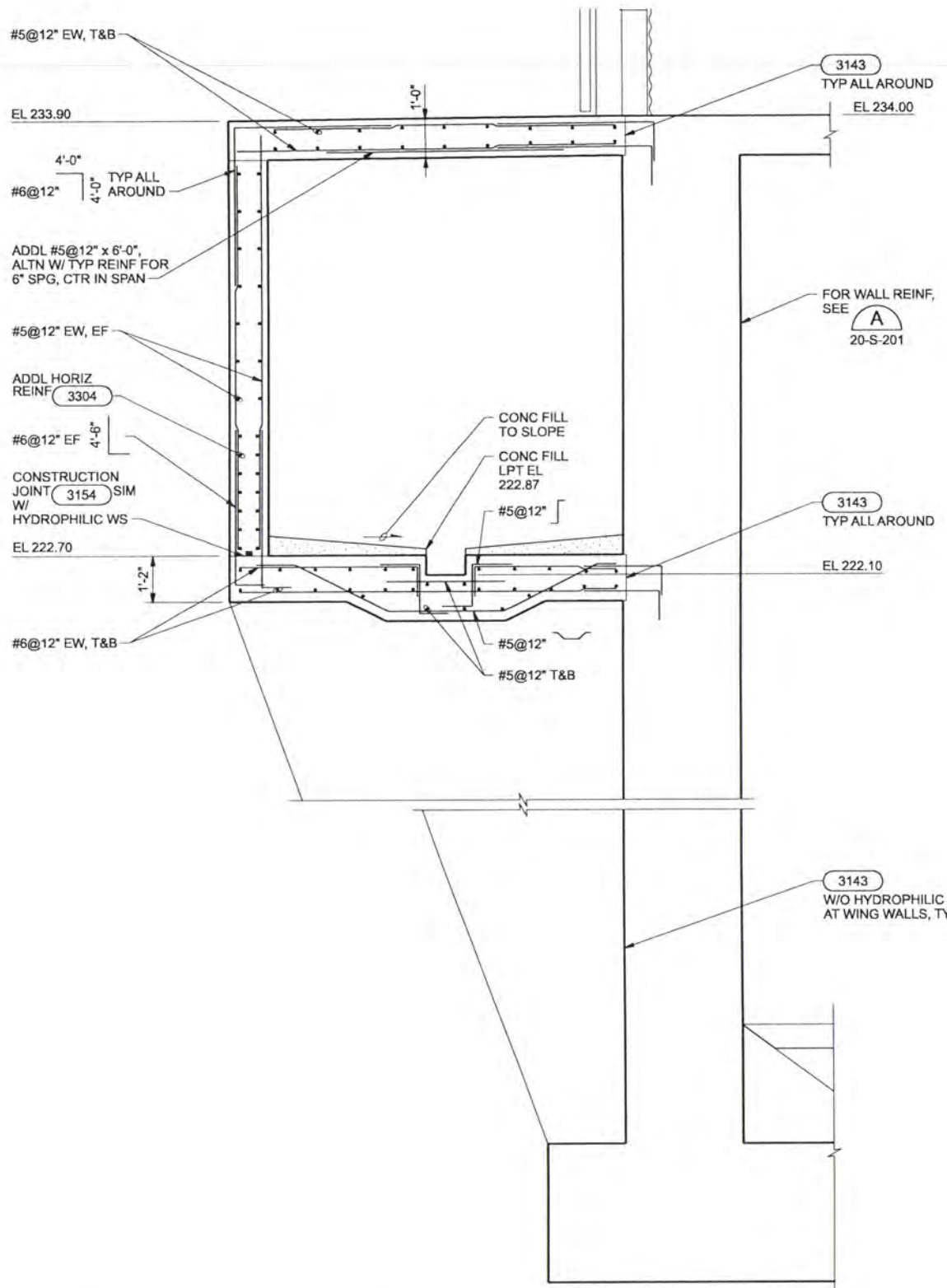


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

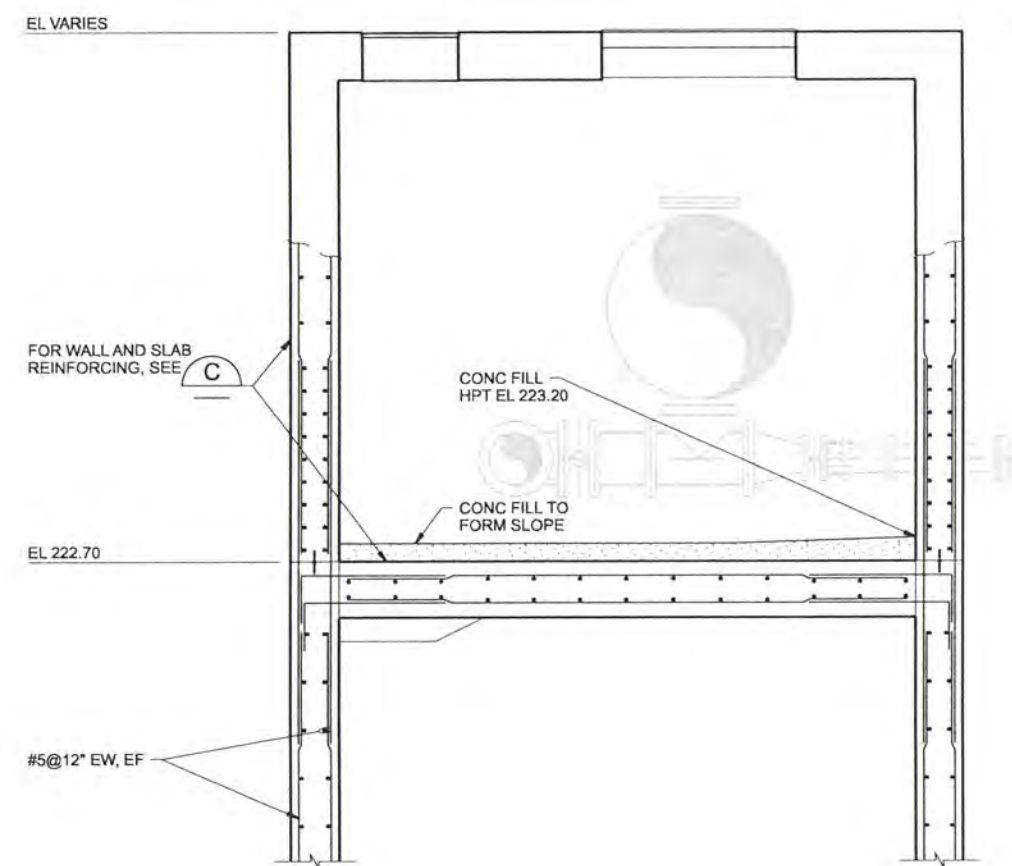
RAW WATER PUMP STATION
 ARCHITECTURAL / STRUCTURAL
 SECTIONS

SHEET	102
DWG	20-AS-202
DATE	APRIL 2004
PROJ	170368

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SECTION E
1/2"=1'-0"
20-AS-131
20-AS-141



SECTION F
1/2"=1'-0"
20-AS-131
20-AS-141

RECORD DRAWINGS

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DSGN	MJ MERKLEIN						
DR	KJ DAVIS						
CHK	SM FREY	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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 0 1"
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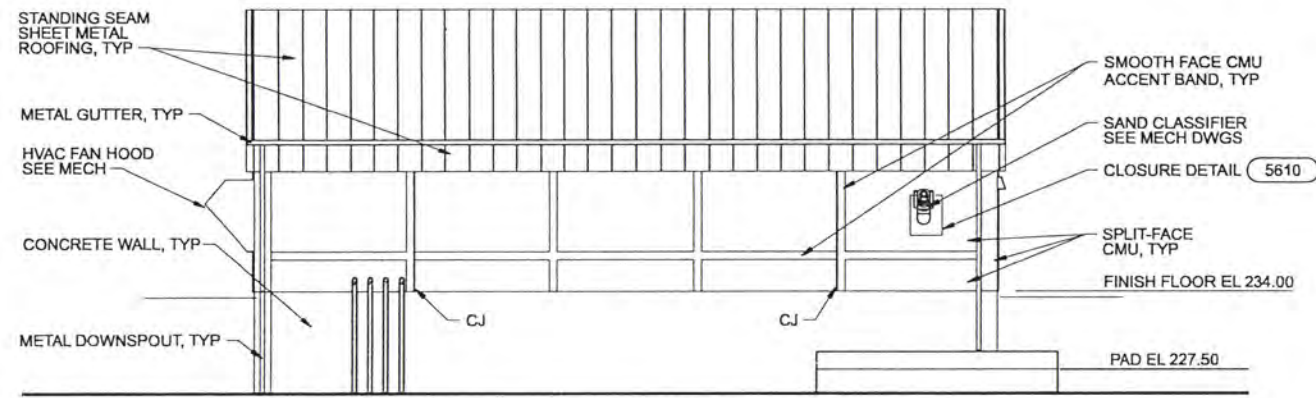


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

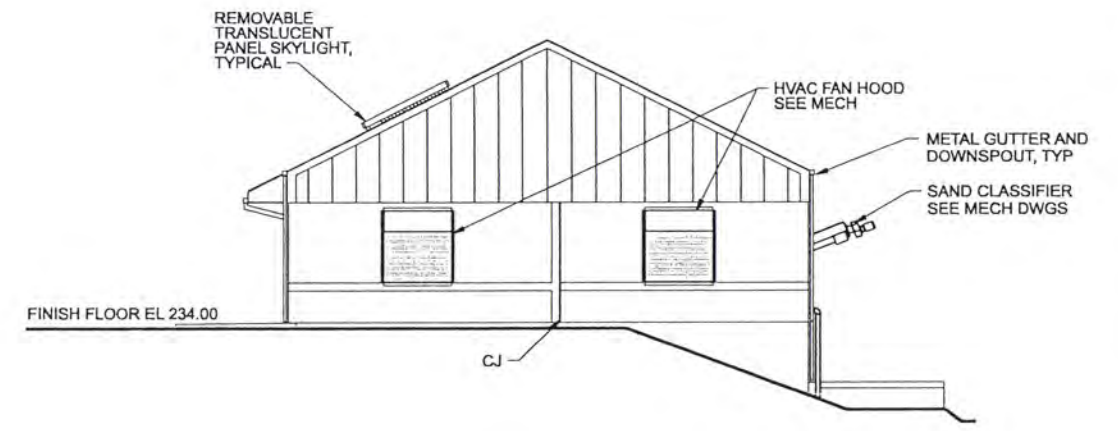
RAW WATER PUMP STATION
 STRUCTURAL
 VALVE VAULT
 SECTIONS

SHEET	103
DWG	20-S-203
DATE	APRIL 2004
PROJ	170368

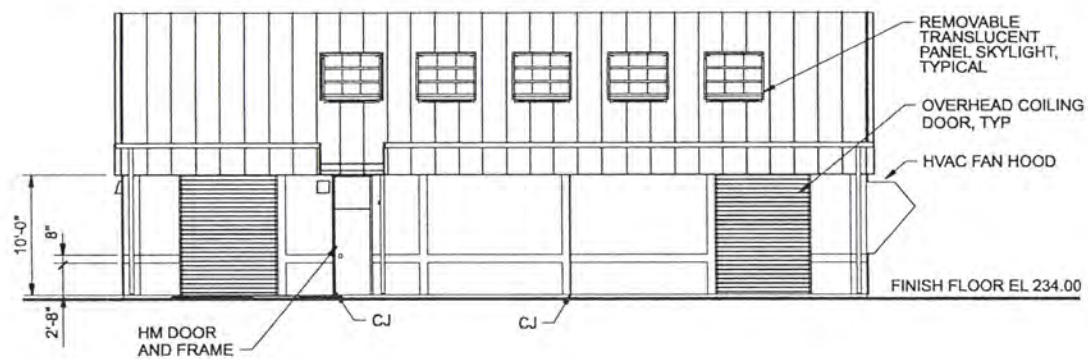
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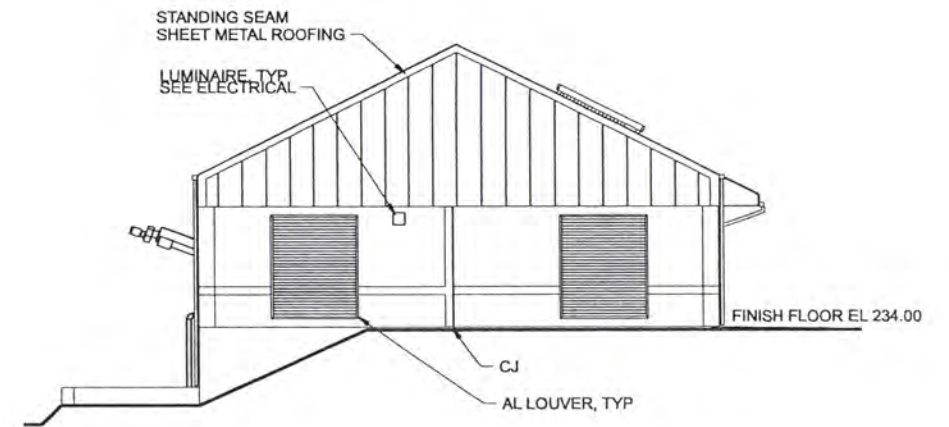
NORTH ELEVATION
1/8"=1'-0"



EAST ELEVATION
1/8"=1'-0"



SOUTH ELEVATION
1/8"=1'-0"



WEST ELEVATION
1/8"=1'-0"

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	JE CAVE						
DR	WB LOVE						
CHK	EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

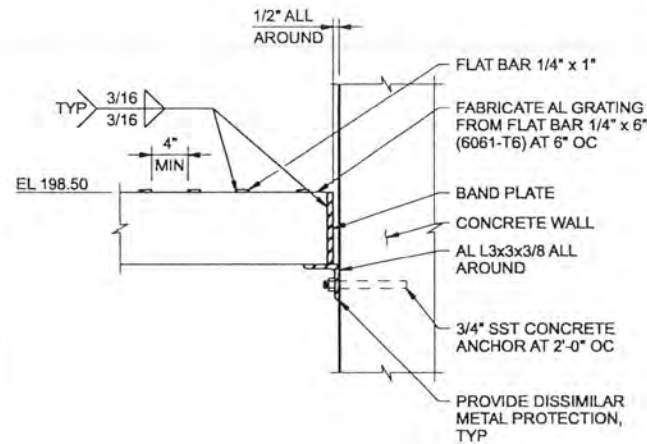
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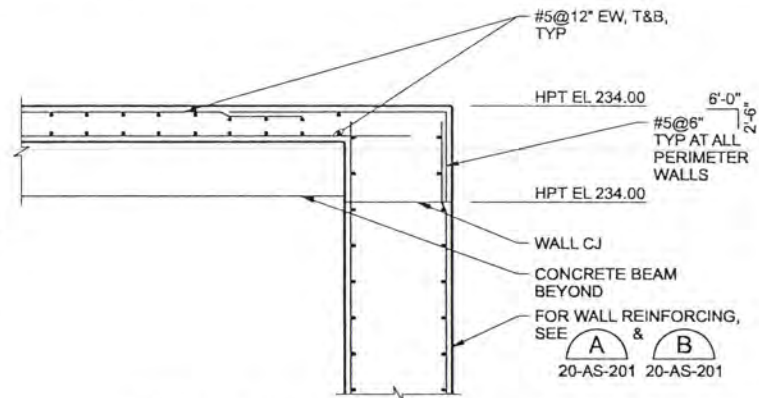
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER PUMP STATION
 ARCHITECTURAL
 ELEVATIONS

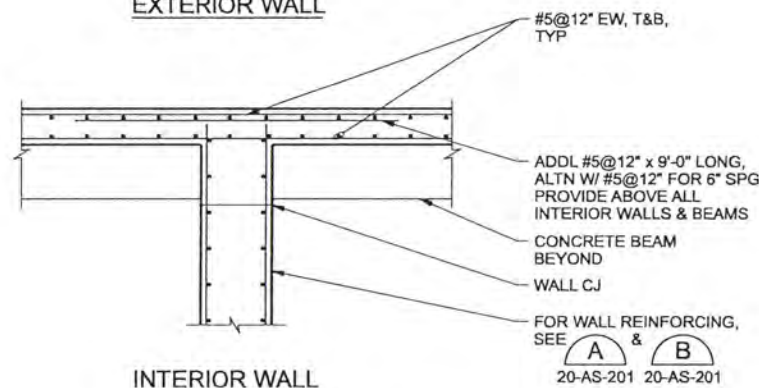
SHEET	104
DWG	20-A-301
DATE	APRIL 2004
PROJ	170368



METAL GRATING DETAIL (1)
1 1/2\"/>

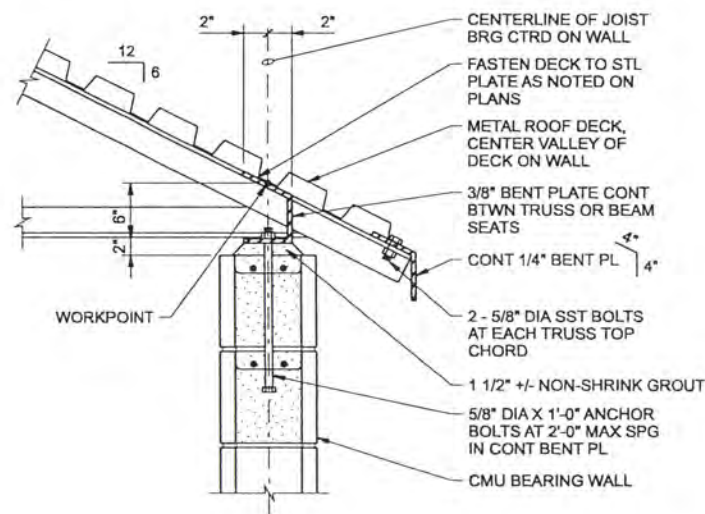


EXTERIOR WALL

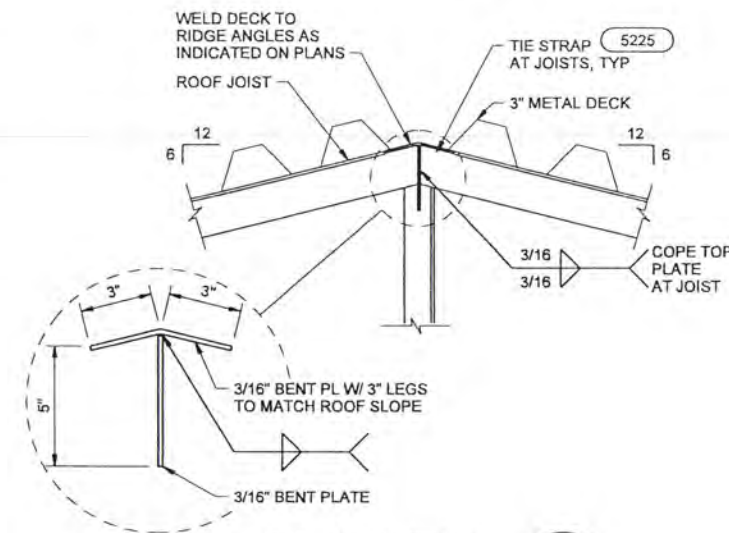


INTERIOR WALL

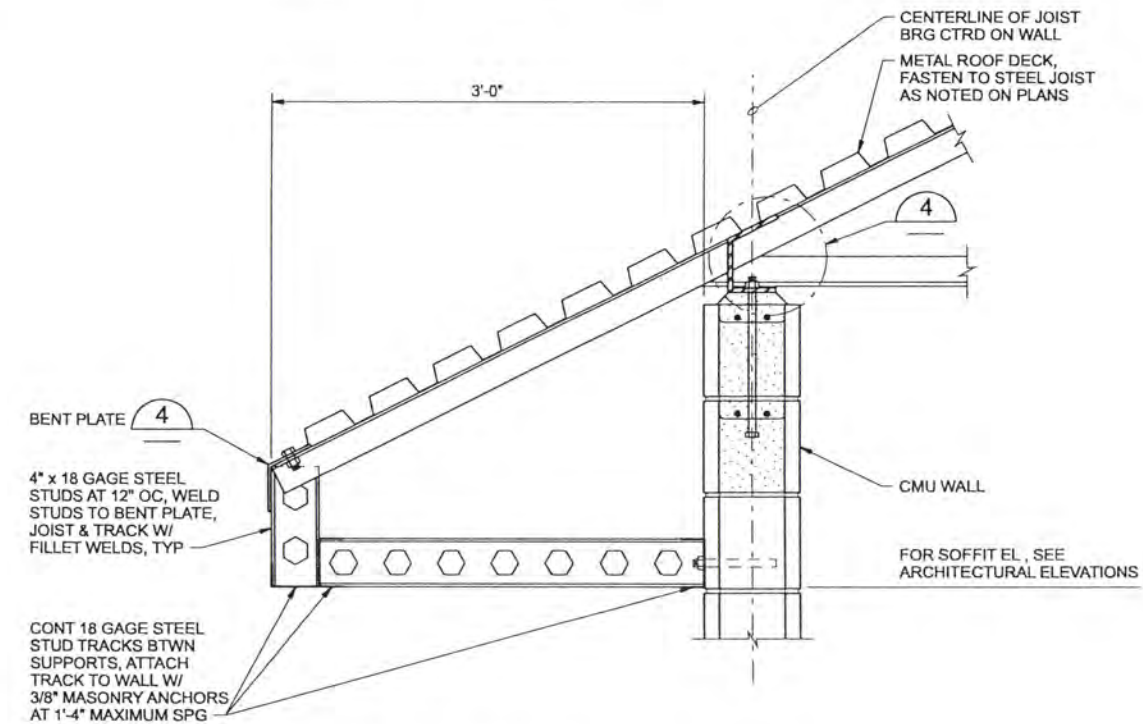
SLAB REINFORCING DETAIL (3)
3/8\"/>



TOP OF WALL BETWEEN JOISTS (4)
1 1/2\"/>



RIDGE DETAIL (5)
1 1/2\"/>



ROOF OVERHANG (6)
1 1/2\"/>

NOTES:

- FOR JOIST BEARING PLATE, SEE (5202) SIMILAR
- SOLID GROUT TOP TWO COURSES OF CMU WALL, TYP
- PROVIDE TWO #6 VERTICAL BARS WITH MATCHING DOWELS IN FULLY GROUTED CELLS BELOW EACH JOIST BEARING.

RECORD DRAWINGS

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DSGN	M EL-HAKIM	6/2006	RECORD DRAWING	JMD	RCF
DR	KJ DAVIS				
CHK	SM FREY				
APVD	CW MASSIE				
NO.	DATE	REVISION	BY	APVD	

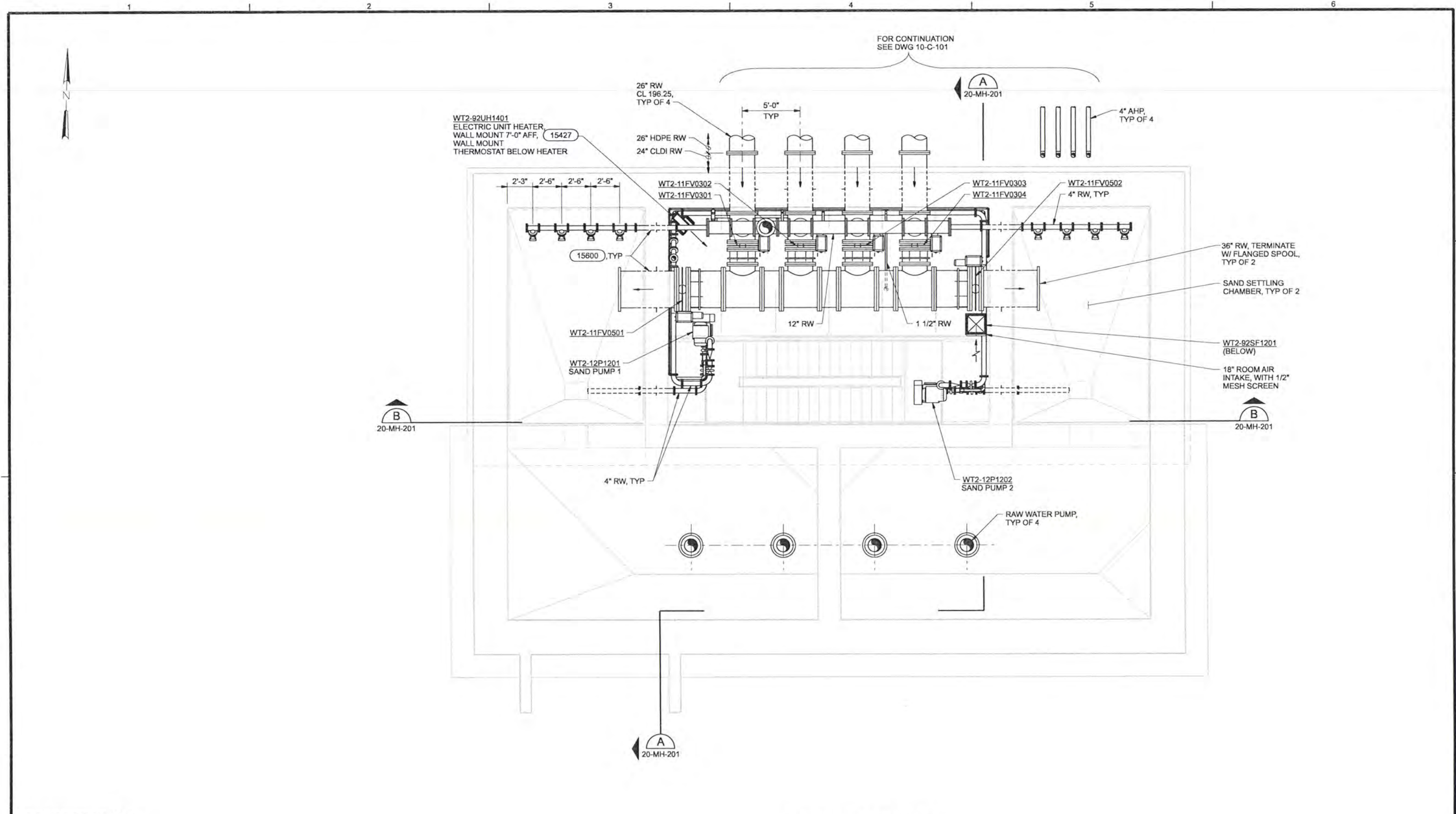
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER PUMP STATION
 STRUCTURAL
 DETAILS

SHEET	105
DWG	20-S-401
DATE	APRIL 2004
PROJ	170368



RECORD DRAWINGS

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DR	ER BROWN						
CHK	TJ REJFIR CW MASSIE	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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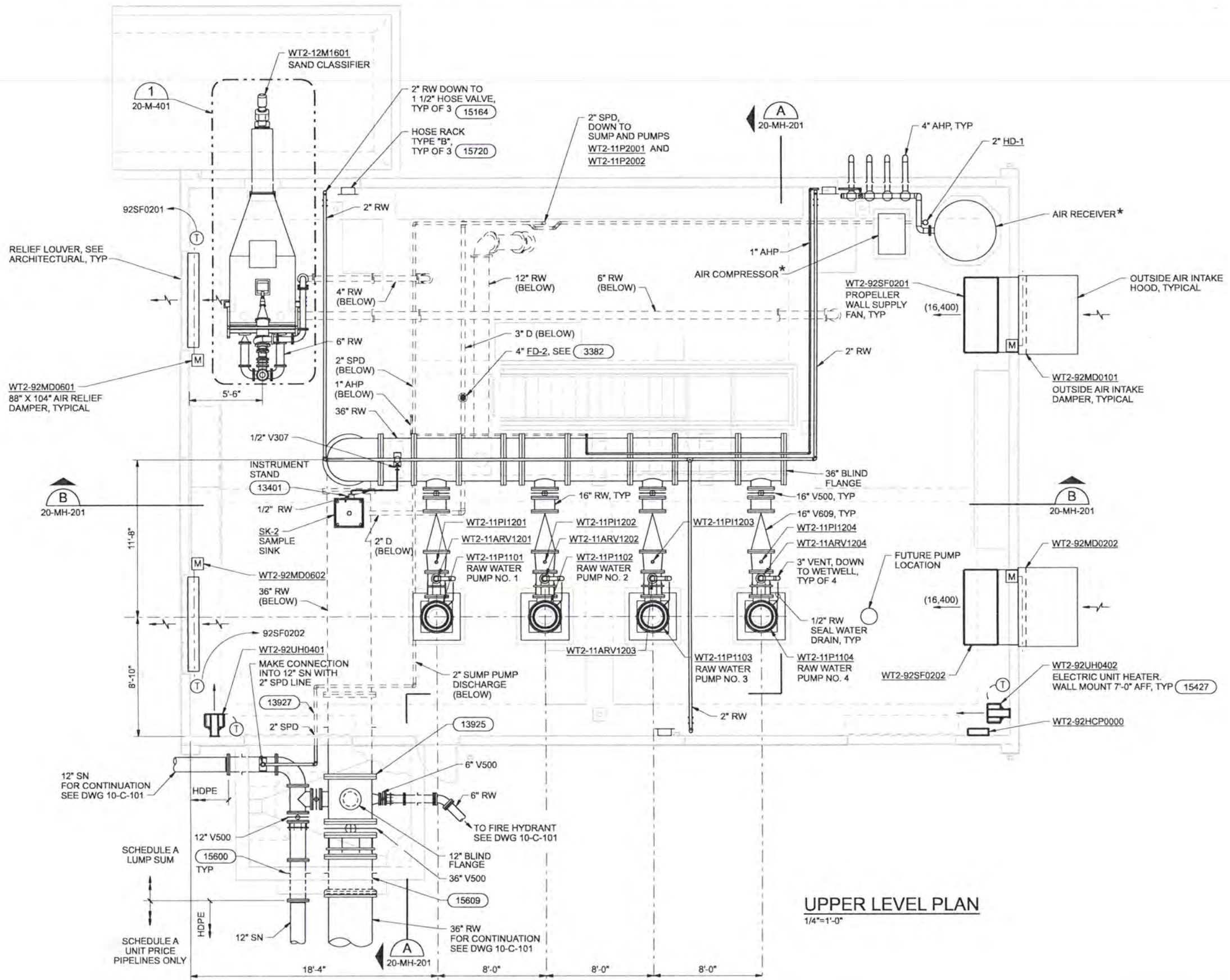
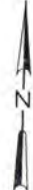
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER PUMP STATION
 MECHANICAL / HVAC
 LOWER LEVEL PLAN

SHEET	106
DWG	20-MH-131
DATE	APRIL 2004
PROJ	170368

LOWER LEVEL PLAN
 1/4"=1'-0"

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UPPER LEVEL PLAN
1/4"=1'-0"

RECORD DRAWINGS

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DSGN	WELP						
DR	ER BROWN						
CHK	TJ REJIFIR	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

VERIFY SCALE
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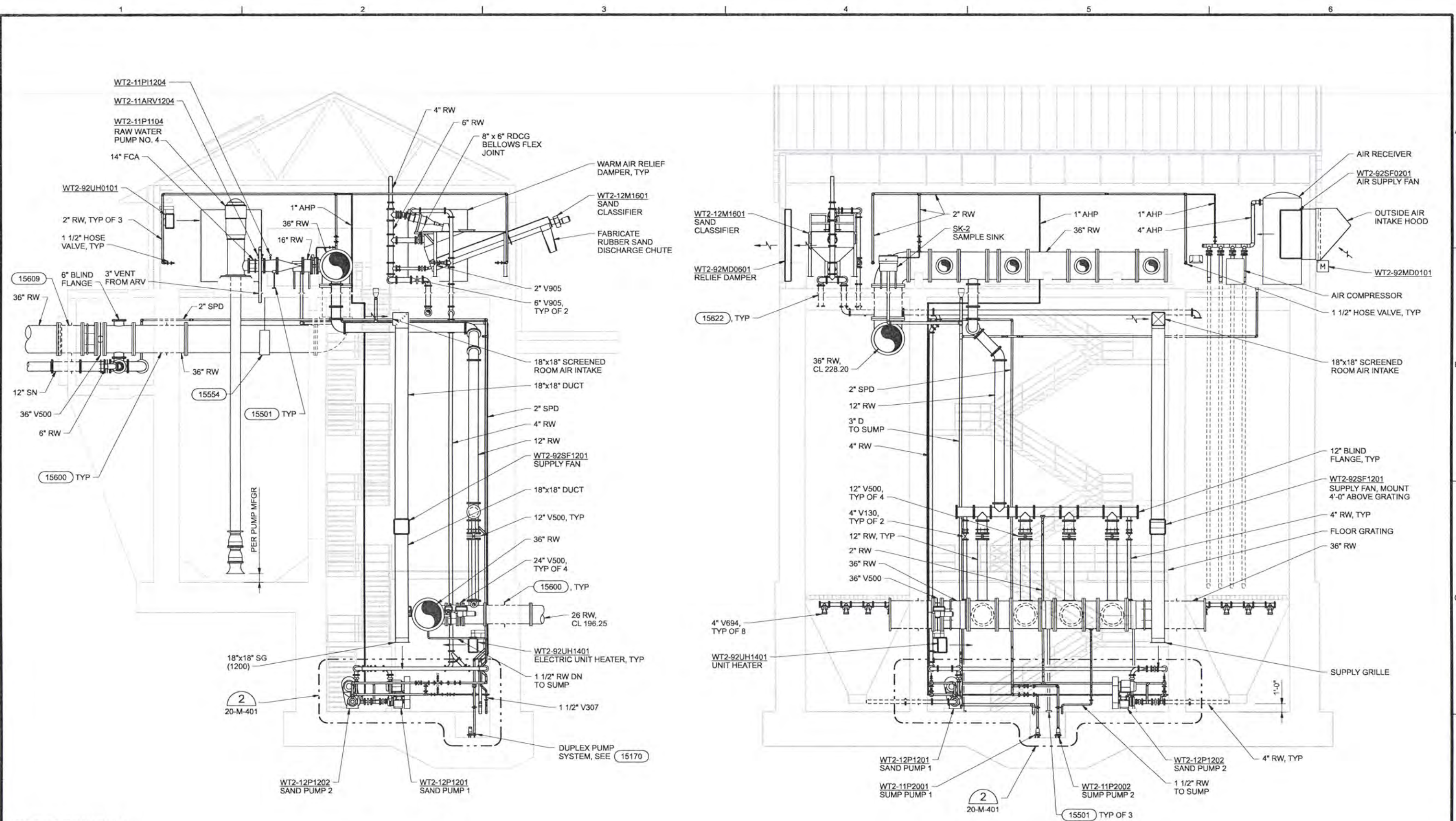


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER PUMP STATION
 MECHANICAL / HVAC
 UPPER LEVEL PLAN

SHEET	107
DWG	20-MH-141
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

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DSGN	WELP/AG OLSON CL KIRKPATRICK
DR	ER BROWN
CHK	TJ REJFIR CW MASSIE
APVD	CW MASSIE

NO.	DATE	REVISION	BY	APVD
	6/2006	RECORD DRAWING	JMD	RCF

SECTION A
 3/16"=1'-0"
 20-MH-131
 20-MH-141

SECTION B
 3/16"=1'-0"
 20-MH-131
 20-MH-141

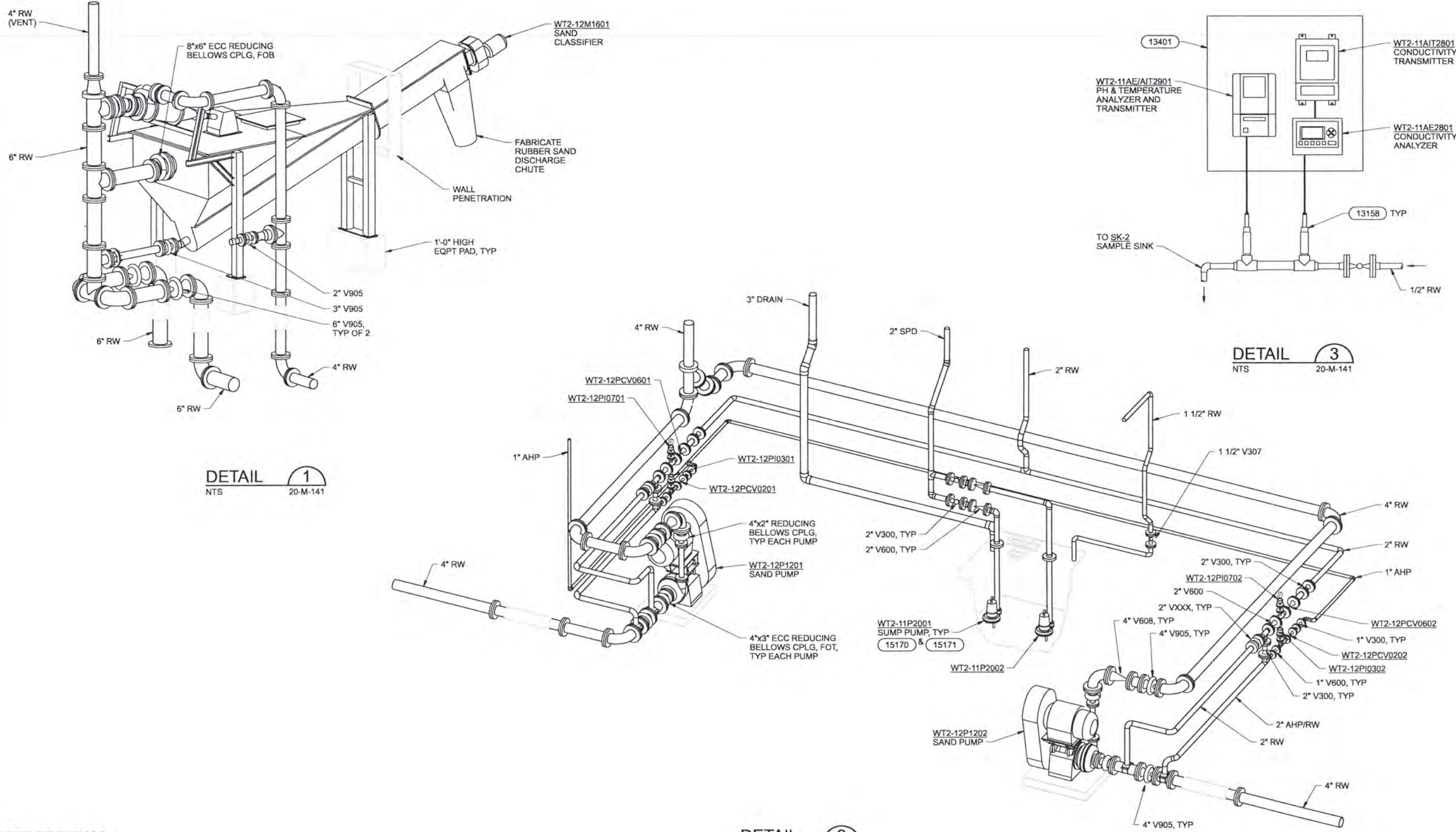


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER PUMP STATION
 MECHANICAL / HVAC
 SECTIONS

SHEET	108
DWG	20-MH-201
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

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DSGN	CL KIRKPATRICK						
DR	ER BROWN						
CHK	CW MASSIE	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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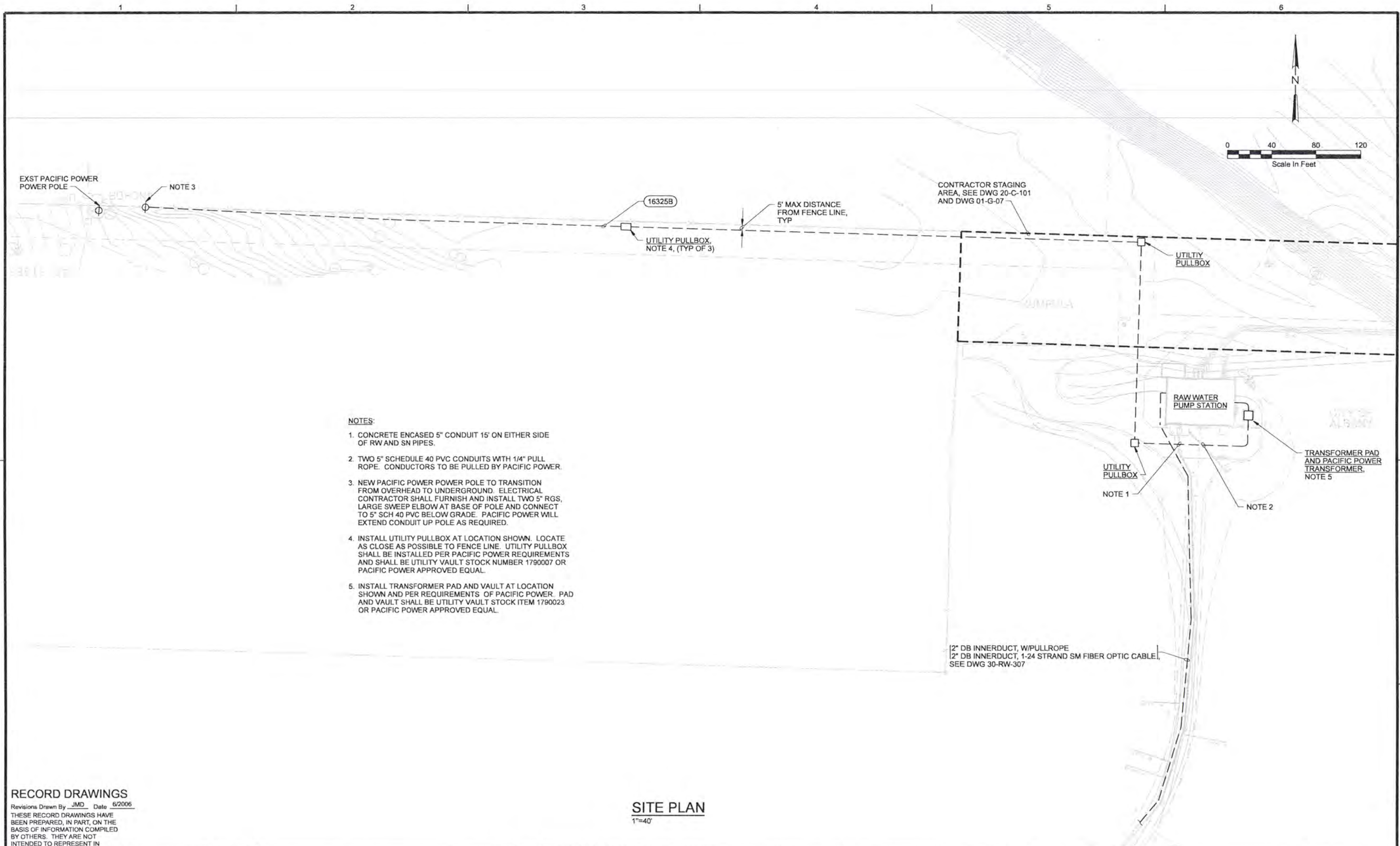
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER PUMP STATION
 MECHANICAL
 DETAILS

SHEET	109
DWG	20-M-401
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
1. CONCRETE ENCASED 5" CONDUIT 15' ON EITHER SIDE OF RW AND SN PIPES.
 2. TWO 5" SCHEDULE 40 PVC CONDUITS WITH 1/4" PULL ROPE. CONDUCTORS TO BE PULLED BY PACIFIC POWER.
 3. NEW PACIFIC POWER POWER POLE TO TRANSITION FROM OVERHEAD TO UNDERGROUND. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TWO 5" RGS, LARGE SWEEP ELBOW AT BASE OF POLE AND CONNECT TO 5" SCH 40 PVC BELOW GRADE. PACIFIC POWER WILL EXTEND CONDUIT UP POLE AS REQUIRED.
 4. INSTALL UTILITY PULLBOX AT LOCATION SHOWN. LOCATE AS CLOSE AS POSSIBLE TO FENCE LINE. UTILITY PULLBOX SHALL BE INSTALLED PER PACIFIC POWER REQUIREMENTS AND SHALL BE UTILITY VAULT STOCK NUMBER 1790007 OR PACIFIC POWER APPROVED EQUAL.
 5. INSTALL TRANSFORMER PAD AND VAULT AT LOCATION SHOWN AND PER REQUIREMENTS OF PACIFIC POWER. PAD AND VAULT SHALL BE UTILITY VAULT STOCK ITEM 1790023 OR PACIFIC POWER APPROVED EQUAL.

2" DB INNERDUCT, W/PULLROPE
 2" DB INNERDUCT, 1-24 STRAND SM FIBER OPTIC CABLE,
 SEE DWG 30-RW-307

RECORD DRAWINGS

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DSGN	RG COLLETTE				
DR	MS MCNEELY				
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

VERIFY SCALE
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SITE PLAN
 1"=40'

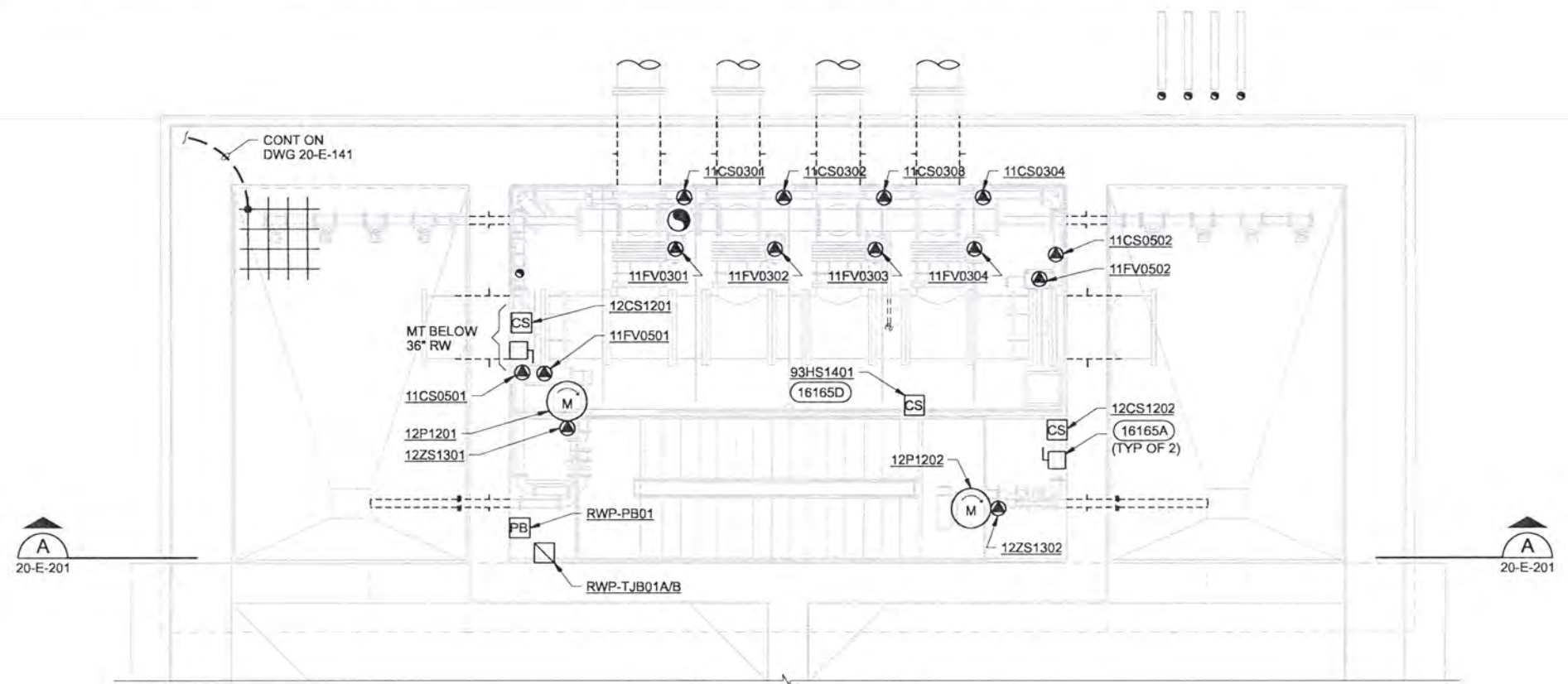
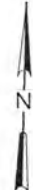


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

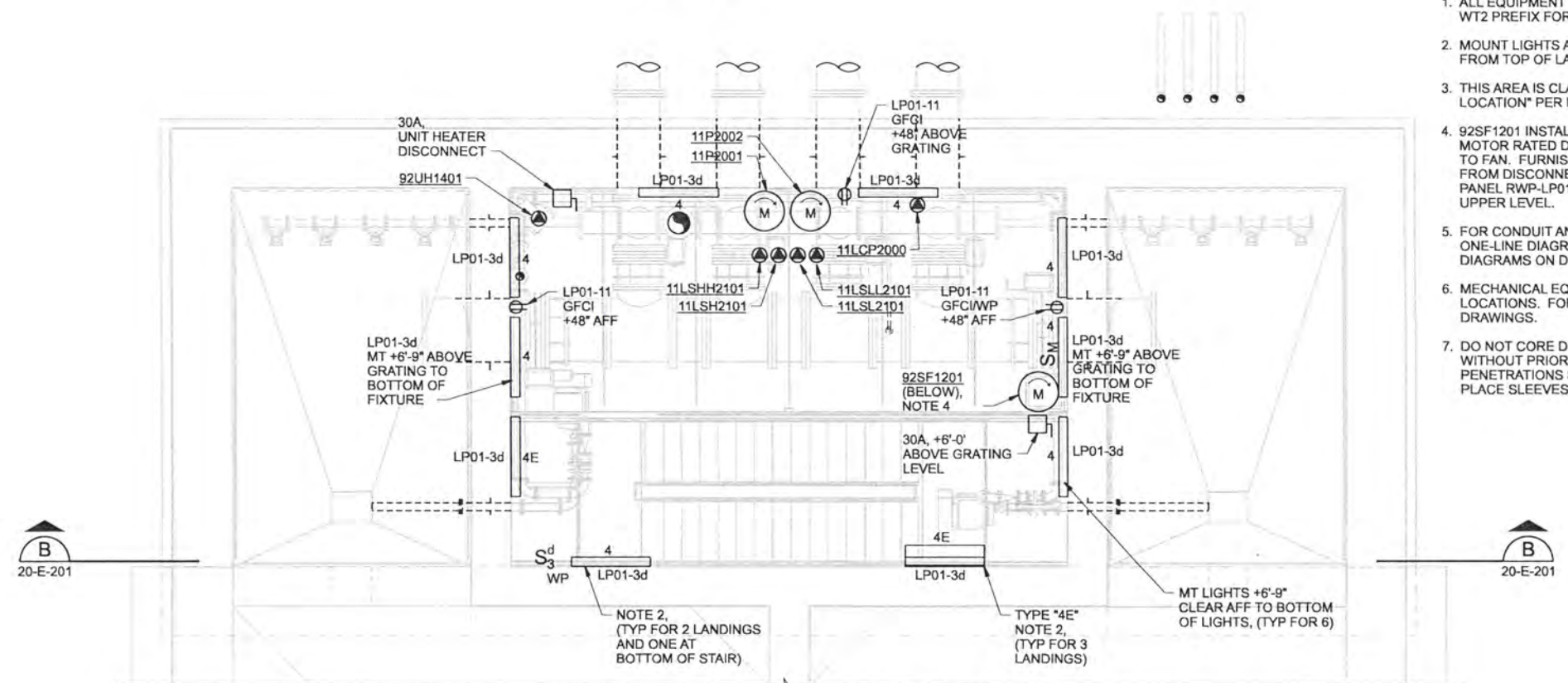
RAW WATER PUMP STATION
 ELECTRICAL
 SITE PLAN

SHEET	110
DWG	20-E-101
DATE	APRIL 2004
PROJ	170368

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LOWER LEVEL PROCESS PLAN
1/4"=1'-0"



LOWER LEVEL FACILITY PLAN
1/4"=1'-0"

NOTES:

- ALL EQUIPMENT TAGS ARE SHOWN WITHOUT THE WTZ PREFIX FOR CLARITY.
- MOUNT LIGHTS AT ALL STAIR LANDINGS +6'-9" CLEAR FROM TOP OF LANDING TO BOTTOM OF LIGHT.
- THIS AREA IS CLASSIFIED AS AN "INDOOR USE WET LOCATION" PER NEC 300.6(C).
- 92SF1201 INSTALLED BELOW STEEL DECK. INSTALL MOTOR RATED DISCONNECT SWITCH AT WALL ADJACENT TO FAN. FURNISH AND INSTALL [B2] FROM FAN DISCONNECT, FROM DISCONNECT TO STARTER AND FROM STARTER TO PANEL RWP-LP01. STARTER LOCATED ON STARTER RACK, UPPER LEVEL.
- FOR CONDUIT AND CONDUCTOR REQUIREMENTS, SEE ONE-LINE DIAGRAMS ON DRAWING 20-E-501 AND RISER DIAGRAMS ON DRAWING 20-E-502.
- MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATIONS. FOR EXACT LOCATIONS, SEE MECHANICAL DRAWINGS.
- DO NOT CORE DRILL ANY CONCRETE WALLS OR FLOORS WITHOUT PRIOR ENGINEERING APPROVAL. ALL CONDUIT PENETRATIONS SHALL BE CAST IN PLACE OR BY CAST IN PLACE SLEEVES.

RECORD DRAWINGS

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DSGN	RG COLLETTE				
DR	MS MCNEELY				
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

VERIFY SCALE
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 0 [LINE] 1"
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

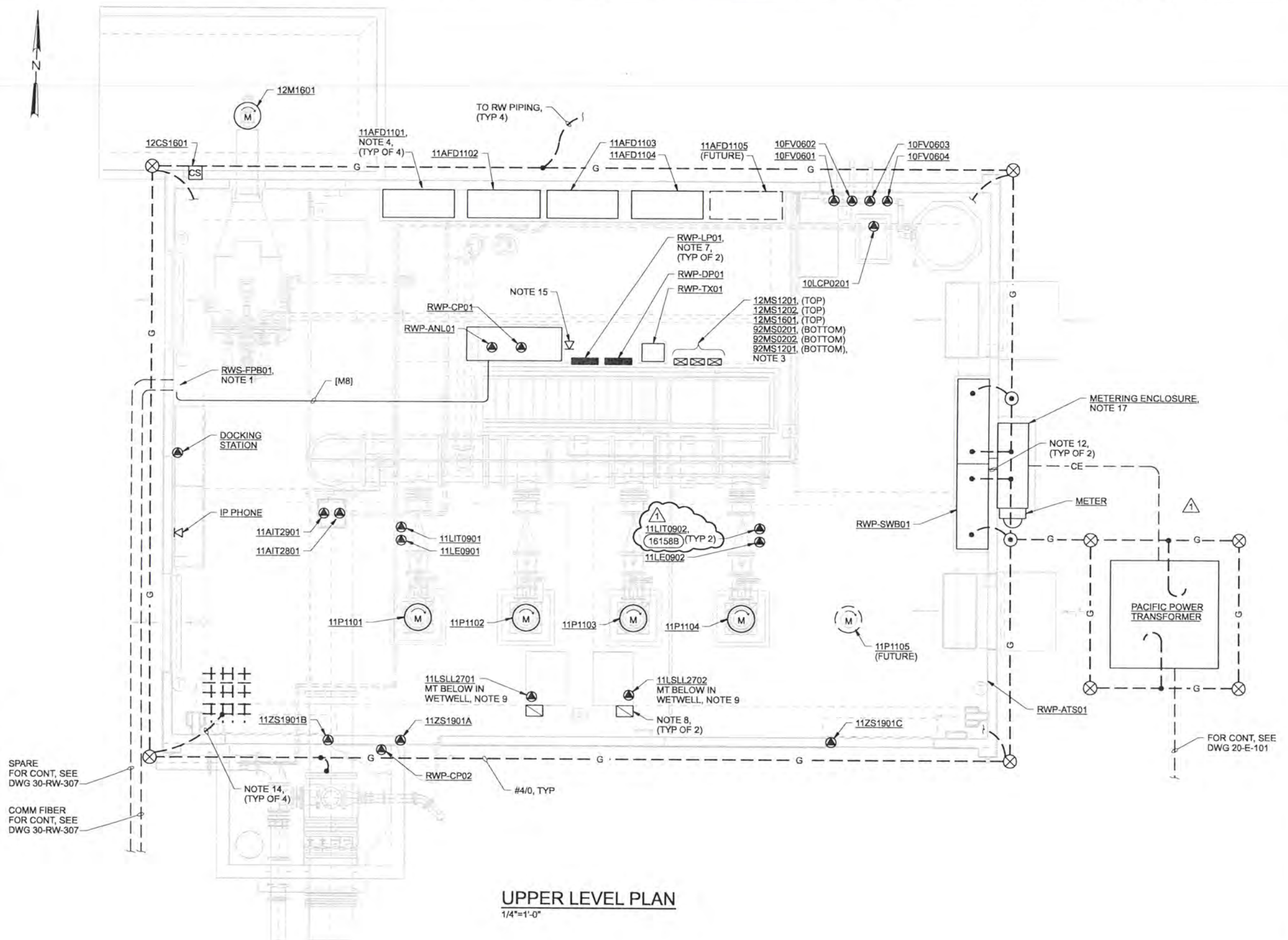
RAW WATER PUMP STATION
ELECTRICAL
 LOWER LEVEL PROCESS AND FACILITY PLANS

SHEET	111
DWG	20-E-131
DATE	APRIL 2004
PROJ	170368

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NOTES:

1. SIZE FIBER PULL BOX FOR APPROPRIATE BEND RADIUS OF FIBER FOR FIBER OPTIC CABLE INSTALLATION.
2. ALL EQUIPMENT TAGS ARE SHOWN WITHOUT THE WT2 PREFIX FOR CLARITY.
3. MOUNT STARTERS ON SELF SUPPORTING FRAMING CHANNEL RACK. MOUNT TOP ROW OF STARTERS AT 6'-6" AFF (TO TOP OF ENCLOSURE). ATTACH SECOND ROW OF STARTERS 6" BELOW BOTTOM OF TOP STARTERS.
4. FOR COMMUNICATION AND NETWORK CONDUIT AND CONDUCTOR REQUIREMENTS, SEE DWG 50-E-506.
5. FOR CONDUIT AND CONDUCTOR REQUIREMENTS, SEE ONE-LINE DIAGRAMS ON DRAWING 20-E-501 AND RISER DIAGRAMS ON DRAWING 20-E-502.
6. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATIONS. FOR EXACT LOCATIONS, SEE MECHANICAL DRAWINGS.
7. SECURELY FASTEN RWP-LP01 AND RWP-DP01 TO A SELF SUPPORTING, FLOOR MOUNTED UNISTRUT RACK. RACK TO BE BRACED AND SUPPORTED PER THE REQUIREMENTS OF THE SPECIFICATIONS. SUBMIT DESIGN DETAILS PRIOR TO CONSTRUCTION FOR ENGINEERING APPROVAL.
8. MOUNT NEMA 4X RATED TERMINAL JUNCTION BOX IN WETWELL ADJACENT TO ACCESS HATCH. INSTALL SUCH THAT TJB IS ACCESSIBLE FROM THE HATCH TO AID FLOAT REPLACEMENT. USE LIQUID TIGHT CORD GRIP AND STRAIN RELIEF TO SUPPORT THE MSC.
9. CONDUIT TO UNDERSLAB DEVICES SHOWN AT THIS LOCATION SHALL BE CAST IN PLACE. PENETRATION IN WET WELL TO BE HIGH NEAR BOTTOM OF FLOOR SLAB, AND OTHER END TO EXIT SLAB ADJACENT TO THE WALL.
10. CONDUIT ROUTING FOR ALL UPPER LEVEL EQUIPMENT SHALL BE ALONG THE WALLS OR THE OVERHEAD UNLESS SHOWN OTHERWISE. COORDINATE ROUTING OF CONDUIT WITH OTHER TRADES TO ELIMINATE CONFLICTS. AVOID ROUTING CONDUITS UNDER SKYLIGHTS, AND ABOVE EQUIPMENT REMOVAL HATCHES.
11. CONDUIT PENETRATIONS TO THE LOWER LEVELS MAY BE MADE BY USING CONDUIT SLEEVES OR CASTING THE CONDUITS IN PLACE. NO CORE DRILLS PERMITTED UNLESS PRIOR AUTHORIZATION HAS BEEN GRANTED BY ENGINEER. MINIMUM CONDUIT SPACING IS 4 INCHES, CENTERLINE TO CENTERLINE. PROVIDE 2-2" SPARE SLEEVES UNDER RWP-CP01, RWP-LP01, AND RWP-DP01.
12. STRUCTURAL DRAWINGS INDICATE A BLOCKOUT IN THE WALL FOR CONDUIT SLEEVES FROM THE METERING ENCLOSURE. GROUT OPENINGS AFTER CONDUIT SLEEVE INSTALLATION.
13. USE LIQUID TIGHT STRAIN RELIEF AND CORD SUPPORTS FOR TRANSITIONS FROM MSC TO CONDUIT. STRAIN RELIEF TO BE SIZED TO FIT MSC.
14. CONNECT GROUND CONDUCTOR TO STEEL REINFORCEMENT IN THE LOWER SLAB AND THE UPPER SLAB, TWO CONNECTIONS PER LEVEL, IN OPPOSING CORNERS.
15. DATA PORT MOUNTED ON SELF SUPPORTING RACK BELOW RWP-LP01.
16. FOR COMMUNICATION SYSTEM CONDUIT AND CONDUCTOR REQUIREMENTS, SEE NETWORK RISER DIAGRAM ON DWG 50-E-506.
17. MOUNT METERING ENCLOSURE ON TOP OF EQUIPMENT PAD. SEE 3356 TYPE H.



RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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DSGN	RG COLLETTE													
DR	MS MCNEELY													
CHK	JF TURNER	6/2006	11/03	RECORD DRAWING										
APVD	CW MASSIE			ADDENDUM 1										
		NO.	DATE	REVISION										

VERIFY SCALE	
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	

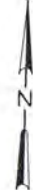
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

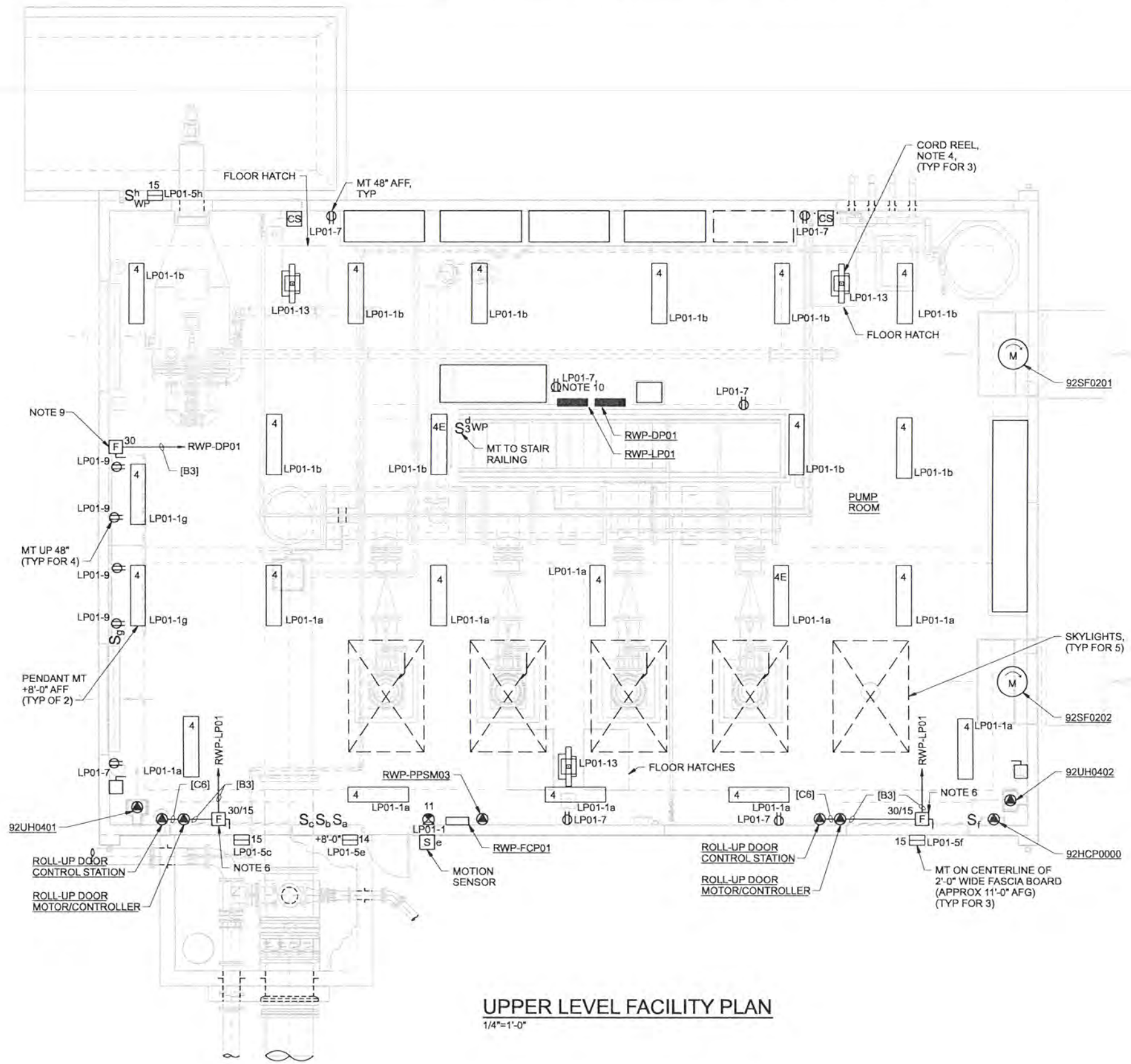
RAW WATER PUMP STATION
ELECTRICAL
UPPER LEVEL PROCESS PLAN

SHEET	112
DWG	20-E-141
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
- A. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO LIGHTS, RECEPTACLE, HVAC EQUIPMENT AND EQUIPMENT CONNECTIONS. FOR EXAMPLE: THE LP01-1 INDICATES CIRCUIT NO. 1 IN PANEL RWP-LP01 UNLESS OTHERWISE NOTED.
 - B. FURNISH, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE COMBINATIONS OF LIGHTS, LIGHT SWITCHES, AND RECEPTACLES ASSIGNED TO THE BRANCH CIRCUIT SHOWN.
 - C. FURNISH, INSTALL NO. 12 AWG WIRE WITH NO. 12 AWG GROUND IN 3/4" CONDUIT FOR CIRCUIT LENGTHS LESS THAN 75 FEET. PROVIDE NO. 10 AWG WIRE SIZE FOR LENGTHS GREATER THAN 75 FEET.
 - FOR LUMINAIRE SCHEDULE AND LUMINAIRE NOTES, SEE DWG 20-E-504.
 - EMERGENCY LUMINAIRES NOT DESIGNATED AS 24 HR (HOUR) SHALL BE SWITCHED OFF. PROVIDE ADDITIONAL WIRING AS REQUIRED.
 - PROVIDE AND INSTALL 1 5/8"x1 5/8", LENGTHS AS REQUIRED, GALVANIZED STEEL CHANNEL BETWEEN TRUSSES TO SUPPORT LIGHTS AND CORD REELS.
 - ENGRAVE SWITCHPLATES S_c AND S_f "OUTDOOR LIGHT".
 - PROVIDE FUSES PER THE MANUFACTURER'S RECOMMENDATIONS.
 - HVAC EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.
 - FOR HVAC CONDUIT AND CONDUCTOR REQUIREMENTS, SEE ONE-LINE DIAGRAMS ON DRAWING 20-E-501.
 - WALL MOUNT DISCONNECT SWITCH ADJACENT TO WORKBENCH. SWITCH IS TO ALLOW TESTING OF 480V LOADS OR FOR FUTURE INSTALLATION OF RECEPTACLE. FURNISH AND INSTALL 20AMP FUSES.
 - RECEPTACLE MOUNTED ON SUPPORT CHANNEL RACK, NEXT TO DATA PORT, BELOW RWP-LP01.



UPPER LEVEL FACILITY PLAN
1/4"=1'-0"

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	RW MARTINI								
DR	MS MCNEELY								
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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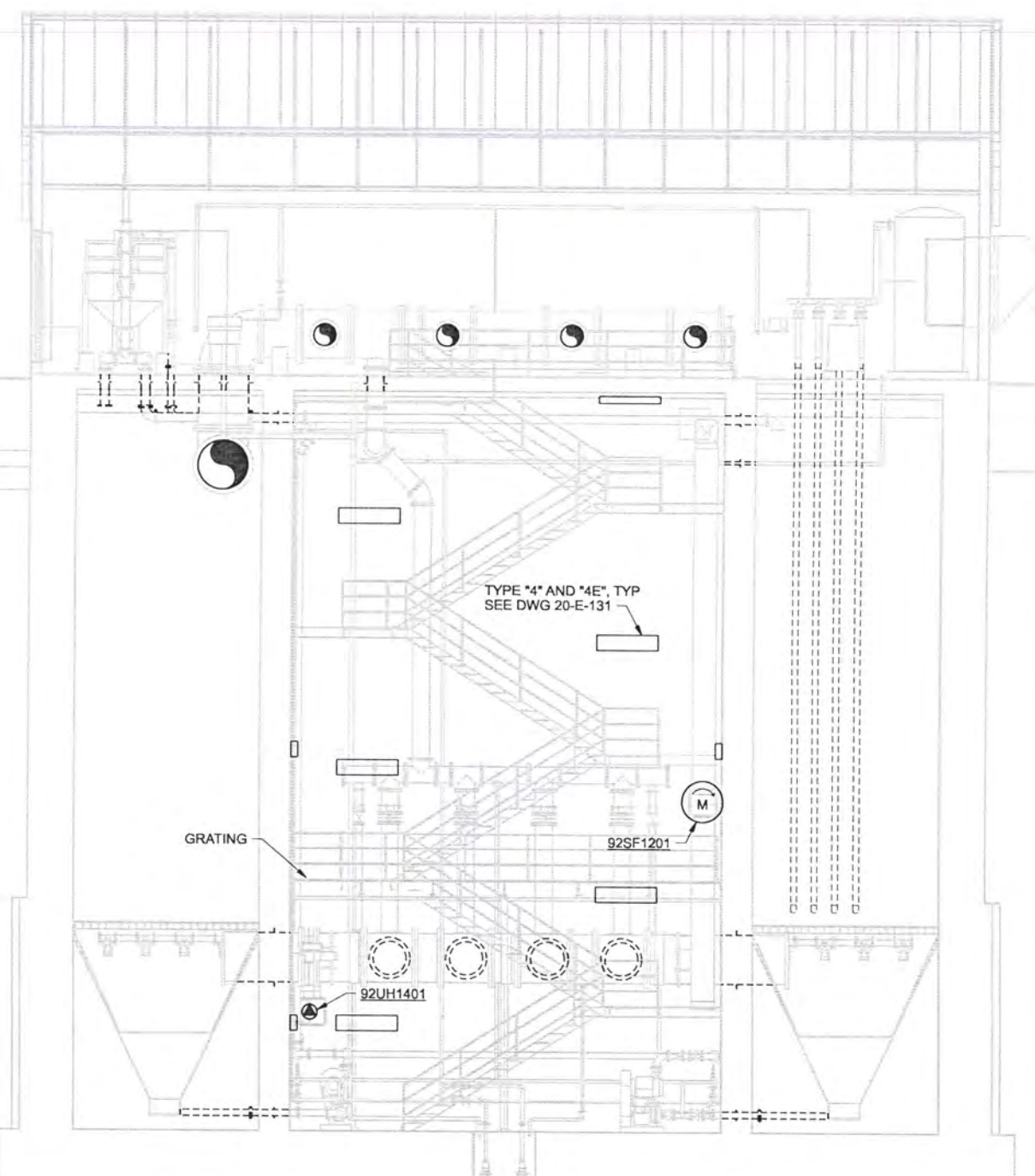
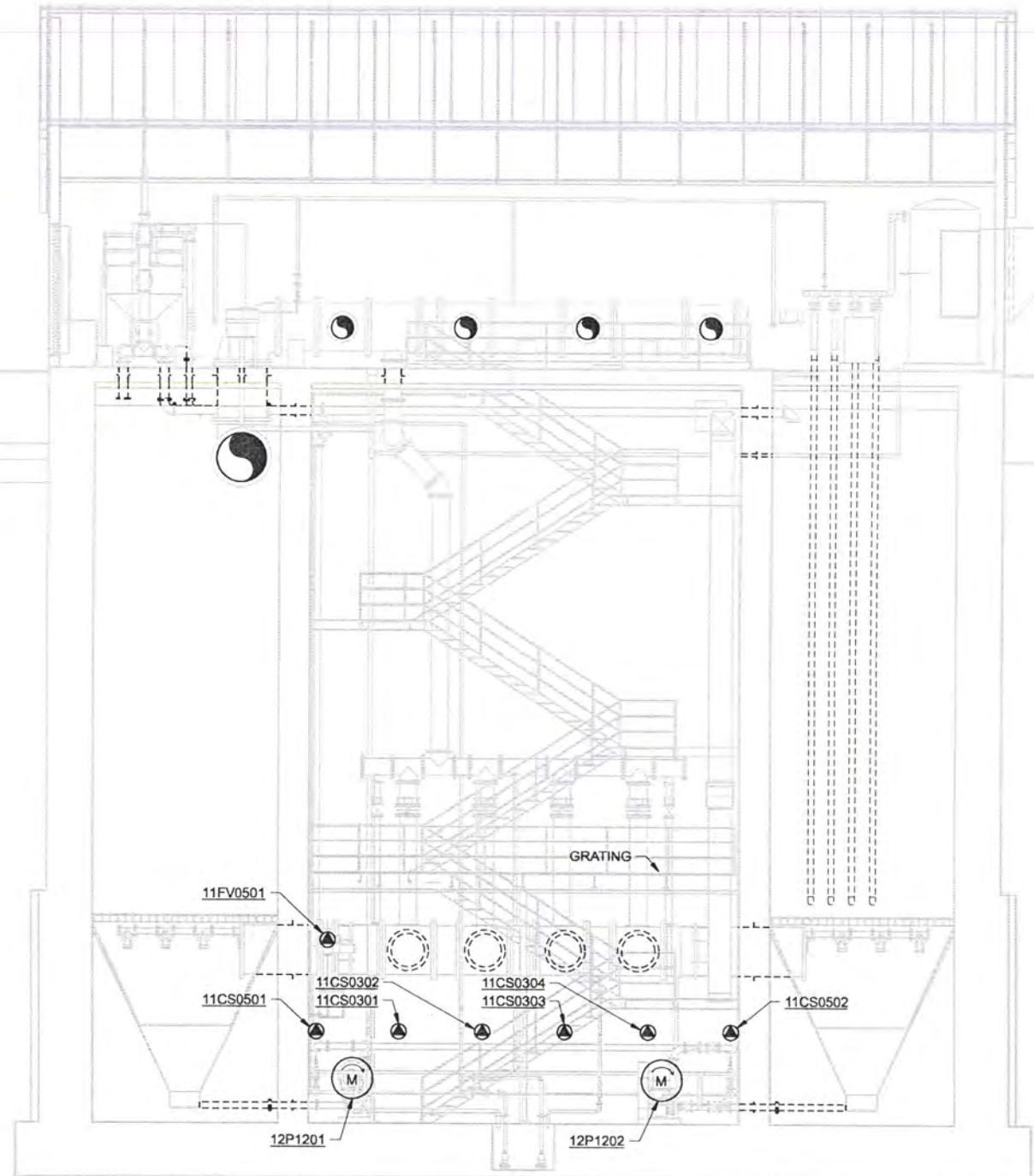


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER PUMP STATION
 ELECTRICAL
 UPPER LEVEL FACILITY PLAN

SHEET	113
DWG	20-E-145
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
1. GENERAL LOCATION OF EQUIPMENT AND DEVICES SHOWN. ELECTRICAL CONTRACTOR RESPONSIBLE TO VERIFY LOCATION OF DEVICES WITH THE MECHANICAL DRAWINGS AND THE MECHANICAL CONTRACTOR.
 2. FOR PROCESS EQUIPMENT CIRCUIT AND RACEWAY REQUIREMENTS, SEE RISER DIAGRAM ON DWG 20-E-502 AND ONE-LINE DIAGRAMS ON DWG 20-E-501.
 3. FOR CIRCUIT ASSIGNMENTS REFER TO PANEL SCHEDULES, SEE DWG 20-E-503.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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PROCESS SECTION A
 3/16"=1'-0" 20-E-131

FACILITY SECTION B
 3/16"=1'-0" 20-E-131

DSGN	RG COLLETTE	NO.	DATE	REVISION	BY	APVD
DR	MS MCNEELY					
CHK	JF TURNER					
APVD	CW MASSIE					

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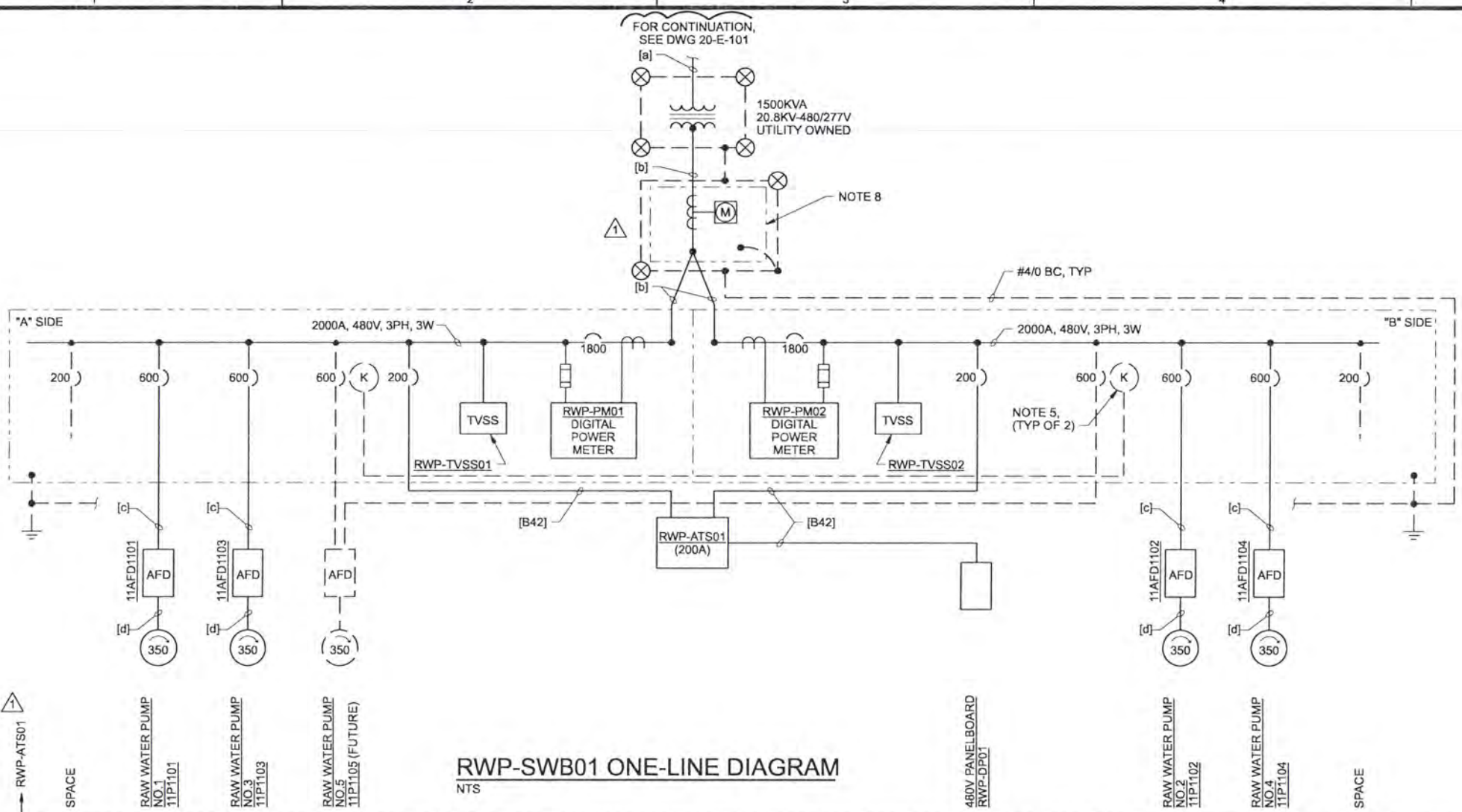


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

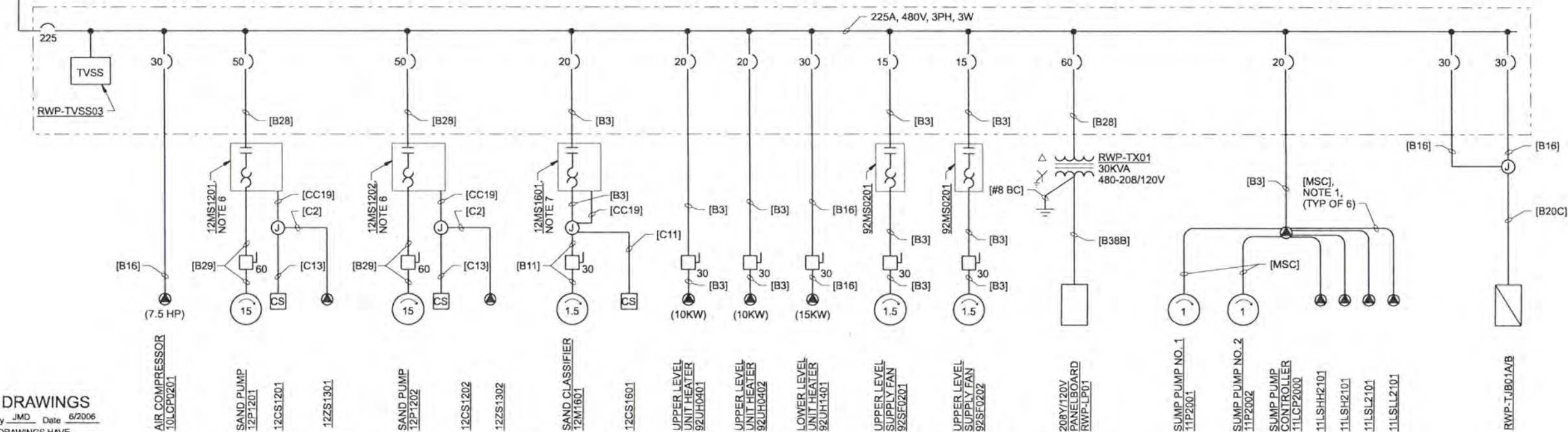
RAW WATER PUMP STATION
 ELECTRICAL SECTIONS

SHEET	114
DWG	20-E-201
DATE	APRIL 2004
PROJ	170368

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RWP-SWB01 ONE-LINE DIAGRAM
NTS



RWP-DP01 ONE-LINE DIAGRAM
NTS

- NOTES:**
- WHERE FLOAT OR PUMP MSC ARE ROUTED EXPOSED, INSTALL IN RGS CONDUIT SIZED PER THE REQUIREMENTS OF THE NEC.
 - FOR EQUIPMENT LOCATIONS, SEE THE PLAN SHEETS.
 - FOR ADDITIONAL CONDUIT AND CONDUCTOR REQUIREMENTS, SEE RISER DIAGRAMS DWG 20-E-502.
 - ALL EQUIPMENT TAGS ARE SHOWN WITHOUT THE WT2 PREFIX FOR CLARITY.
 - KEY INTERLOCK SHOWN FOR REFERENCE OF THE ANTICIPATED FUTURE INSTALLATION OF THE FIFTH RAW WATER PUMP. PROVIDE SPACE AND BUSING FOR FUTURE BREAKER BUT DO NOT PROVIDE ACTUAL BREAKER OR KEY INTERLOCK.
 - NEMA SIZE 2 STARTER IN A NEMA12 RATED ENCLOSURE FOR STARTER CONTROL DIAGRAM, SEE DWG 08-I-51.
 - NEMA SIZE 1 STARTER IN A NEMA 12 RATED ENCLOSURE FOR STARTER CONTROL DIAGRAM, SEE DWG 08-I-51.
 - INSTALL UTILITY METERING PER THE REQUIREMENTS OF PACIFIC POWER.
 - FOR HVAC FAN STARTER CONTROL DIAGRAMS, SEE DWG 08-I-50.

- CIRCUIT AND CONDUCTOR CALLOUTS:**
(THIS DWG ONLY)
- [a] = 1-[5°C, WITH 1/4" PULLROPE]
 - [b] = 5-[4°C, 3-500KCMIL, 1#1/0 GCC]
1-[4°C, W/PULLSTRING]
 - [c] = 2-[2 1/2°C, 300 KCMIL, 1#1G]
 - [d] = 2-[2 1/2°C, 300 KCMIL, 1#1G]
3/4°C, 3#14, 1#14G

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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DSGN	RG COLLETTE
DR	MS MCNEELY
CHK	JF TURNER
APVD	CW MASSIE

NO.	DATE	REVISION
1	6/2006	RECORD DRAWING
2	11/03	ADDENDUM 1

BY	APVD
JMD	RCF
MSM	RGC

CH2MHILL

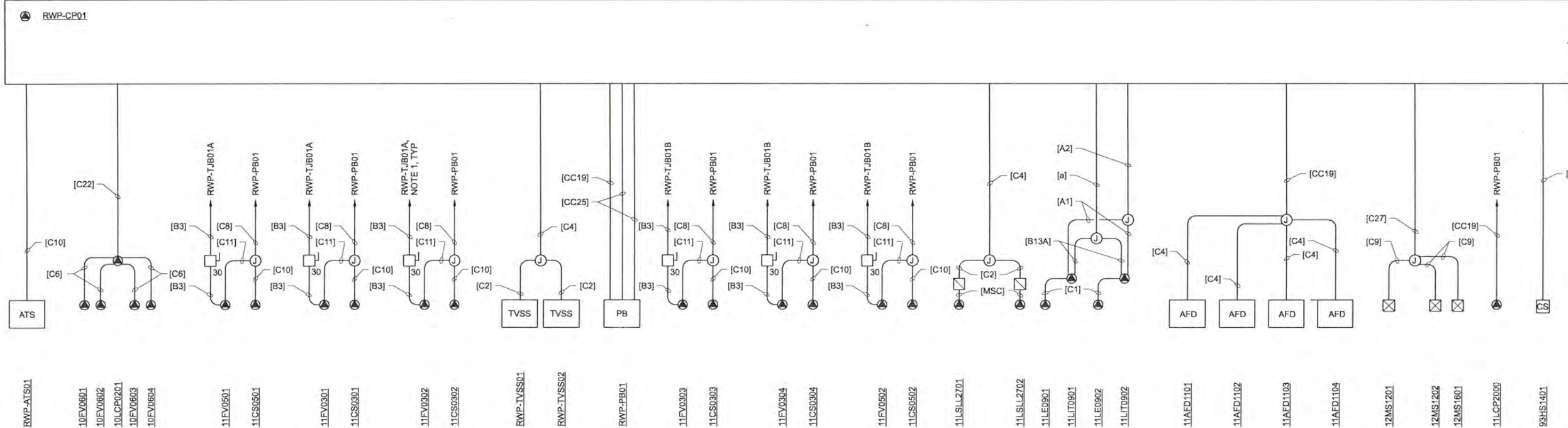
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

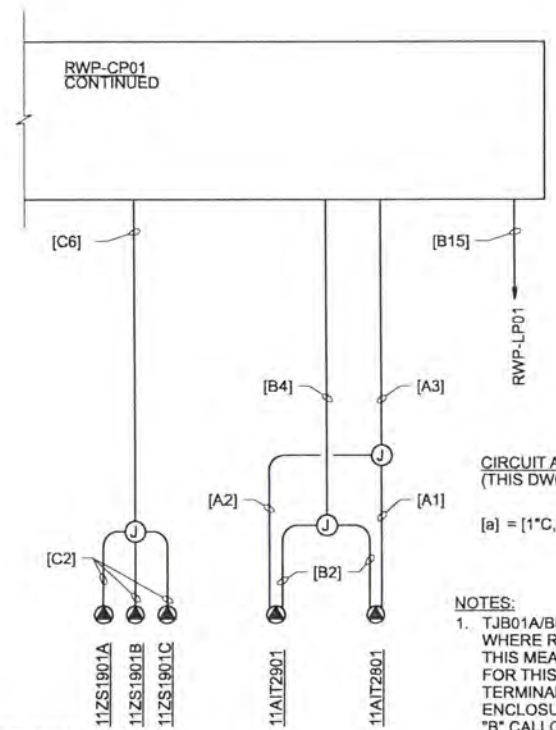
RAW WATER PUMP STATION
ELECTRICAL
ONE-LINE DIAGRAMS

SHEET	115
DWG	20-E-501
DATE	APRIL 2004
PROJ	170368

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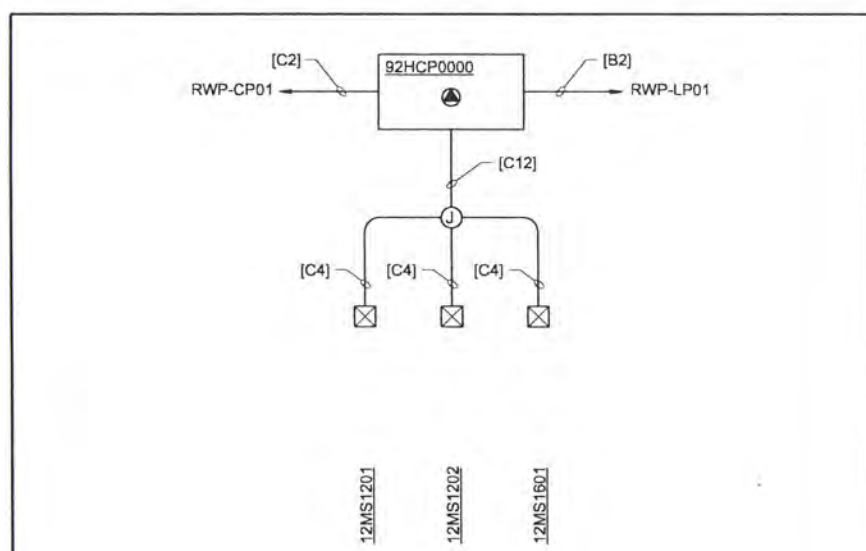
RAW WATER PUMP STATION RISER DIAGRAM
NTS



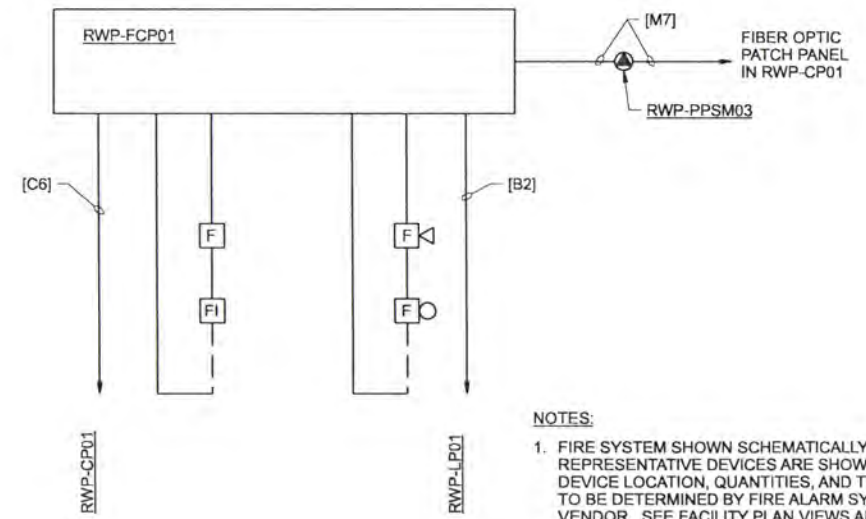
CIRCUIT AND CONDUCTOR CALLOUT:
(THIS DWG ONLY)

[a] = [1"C, 4#12, 12#14, 1#12G]

- NOTES:**
1. TJB01A/B HAS TWO SOURCES OF POWER. WHERE RISER DIAGRAM INDICATES TJB01A, THIS MEANS THAT THE POWER SOURCE FOR THIS DEVICE IS FROM THE "A" SIDE TERMINAL STRIP INSIDE THE TJB01A/B ENCLOSURE. SAME APPLIES FOR THE "B" CALLOUT.
 2. ALL EQUIPMENT TAG NAMES HAVE WT2 PREFIX OMITTED FOR CLARITY.



HVAC/ELECTRICAL INTERFACE RISE DIAGRAM
NTS



- NOTES:**
1. FIRE SYSTEM SHOWN SCHEMATICALLY. ONLY REPRESENTATIVE DEVICES ARE SHOWN. DEVICE LOCATION, QUANTITIES, AND TYPE TO BE DETERMINED BY FIRE ALARM SYSTEM VENDOR. SEE FACILITY PLAN VIEWS AND SPECIFICATIONS. SEE NOTE ON PLAN VIEWS REGARDING SMOKE DETECTOR QUANTITIES/PLACEMENT.
 2. FIRE SYSTEM SHOWN SCHEMATICALLY. CONDUCTOR TYPE BETWEEN THE FACP AND THE DEVICES ARE MANUFACTURER SPECIFIC AND WILL VARY ACCORDINGLY. INSTALL ALL CONDUCTORS EXTERIOR TO THE FACP AND THE DEVICES IN CONDUIT SIZED PER THE NEC REQUIREMENTS FOR CONDUCTOR FILL. MINIMUM CONDUIT SIZE SHALL BE 3/4".
 3. FOR ADDITIONAL DETAILS, SEE FIRE ALARM NETWORK DIAGRAM ON DWG 50-E-506.

RECORD DRAWINGS
Revisions Drawn By: JMD Date: 6/2006
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DSGN	RG COLLETTE					
DR	MS MCNEELY					
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF	
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD

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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

RAW WATER PUMP STATION
ELECTRICAL
RISER DIAGRAMS

SHEET	116
DWG	20-E-502
DATE	APRIL 2004
PROJ	170368

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LUMINAIRE SCHEDULE

TYPE/SYMBOL	VOLTAGE	WATTAGE	DESCRIPTION	MANUF/CATALOG NO.	LAMPS	BALLASTS	MOUNTING
4	120	62	8"Wx6"Dx50"L ENCLOSED AND GASKETED FIBERGLASS HOUSING. HIGH IMPACT ACRYLIC LENS. SPECULAR SILVER LAMINATE REFLECTOR. CONTINUOUS NEOPRENE GASKET. U.L. LISTED FOR "WET LOCATIONS" AND "SPRAY WASHDOWN" AREAS. NORMAL BEAM TYPE DISTRIBUTION. LER=FL-00	HOLOPHANE ES-S04S-NNN-S042-EP1	(2)F032,78 32W,RS,41K	ELECTRONIC	PENDANT MOUNT ON RIGID CONDUIT STEMS AT +10'-0" AFF UNLESS OTHERWISE NOTED.
4E	120	62	SIMILAR TO TYPE "4" EXCEPT WITH TWO LAMP 1350 LUMEN INTEGRAL EMERGENCY BALLAST. MUST BE RATED FOR INTEGRAL BALLAST INSTALLATION				
11	120	LED	EMERGENCY EXIT SIGN WITH SELF-CONTAINED NICKLE CADMIUM BATTERY. CORROSION RESISTANT NEMA 4X ENCLOSURE. "GREEN" LETTERS.	HOLOPHANE MN-SP-L-1-G-W	N/A	N/A	UNIVERSAL CEILING OR SURFACE WALL MT ON RECESSED OUTLET BOX. BOTTOM TO BE 4 INCHES ABOVE TOP OF DOOR FRAMING.
14	120	54	8"Dx12"Wx12"L SHARP CUTOFF EXTERIOR WALL UNIT. CORROSION RESISTANT ALUM CANOPY W/ BAKED BRONZE POLYESTER POWDER COAT FINISH. HINGED CANOPY, SPECULAR ALUMINUM REFLECTOR, SILICONE GASKETED. 5/32 INCH TEMPERED DIFFUSED GLASS LENS. U.L. LISTED FOR "WET LOCATIONS". SST HARDWARE.	GUTH "SUNDOWNER" SND-12-2-F26-PL-1	(2)-26W PL LAMPS COMPACT FLUOR	ELECTRONIC MINUS 20 DEGREE STARTING	WALL MOUNT ON RECESSED OUTLET BOX.
15	120	210	SIMILAR TO TYPE "14" EXCEPT METAL HALIDE LAMP AND FUSED.	GUTH "SUNDOWNER" SND-12-175-MH-1	175W MH		

ELECTRICAL PANELBOARD SCHEDULE												
PANEL: RWP-DP01 VOLTAGE: 480V 3PH, 3W BUS SIZE: 225A MAIN SIZE: 200A						LOCATION: UPPER LEVEL, PUMP ROOM MOUNTING: RACK FED FROM: RWP-SWB01 MAIN TYPE: CB						
CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER		CIRCUIT TITLE
	CKT NO.	AMP	POLE	A	B	C	A	B	C	POLE	AMP	
AIR COMPRESSOR 10LCP0201 (7.5HP)	1	30	3	3000			830			3	20	92SF0201
	3	-	-		3000		830			-	-	(1.5HP)
	5	-	-			3000		830		-	-	6
SAND PUMP 12P1201 (15HP)	7	50	3	5800			830			3	20	92SF0202
	9	-	-		5800		830			-	-	(1.5HP)
	11	-	-			5800		830		-	-	12
SAND PUMP 12P1202 (15HP)	13	50	3	5800			3333			3	20	HEATER 92UH0401
	15	-	-		5800		3333			-	-	(10kW)
	17	-	-			5800		3333		-	-	18
SAND CLASSIFIER 12M1601 (1.5HP)	19	20	3	800			3333			3	20	HEATER 92UH0402
	21	-	-		000		3333			-	-	(10kW)
	23	-	-			800		3333		-	-	24
SUMP PUMP 11LCP2000 (2HP)	25	20	3	1200			5000			3	30	HEATER 92UH1401
	27	-	-		1200		5000			-	-	(15kW)
	29	-	-			1200		5000		-	-	30
RWP-TJB01A	31	20	3	800			1200			3	20	480V DISCONNECT
11FV0301	33	-	-		800		1200			-	-	34
11FV0302	35	-	-			800		1200		-	-	36
RWP-TJB01B	37	20	3	800			6694			3	60	PANEL RWP-LP01
11FV0303, 11FV0304	39	-	-		800		4088			-	-	40
11FV0302	41	-	-		800		500		3424	-	-	42
TOTAL LOAD				18200	18200	18200	21220	18614	17950			
PHASE A LOAD (VA) =							39420					
PHASE B LOAD (VA) =							36814					
PHASE C LOAD (VA) =							36150					
TOTAL LOAD (VA) =							112384					

ELECTRICAL PANELBOARD SCHEDULE												
PANEL: RWP-LP01 VOLTAGE: 208Y/120V 3PH, 4W BUS SIZE: 225A MAIN SIZE: 100A						LOCATION: UPPER LEVEL, PUMP ROOM MOUNTING: RACK FED FROM: RWP-DP01 VIA RWP-TQ01 MAIN TYPE: CB						
CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER		CIRCUIT TITLE
	CKT NO.	AMP	POLE	A	B	C	A	B	C	POLE	AMP	
LTS-UPPER FLOOR	1	20	1	1364			530			1	20	SF921201-LOWER LVL (167 HP)
LTS-LOWER FLOOR, STAIR	3	20	1		668					1	15	4 SPARE
LTS-EXTERIOR	5	20	1			684				1	15	6 SPARE
RCPTS-UPPER FLOOR	7	20	1	1090			710			3	20	ROLL UP DOOR #1
RCPTS-DESK WORKBENCH	9	20	1		720			710		-	-	(3/4HP EACH)
RCPTS-LOWER FLOOR	11	20	1			540			710	-	-	12
CORD REELS (3)	13	20	1	300			2000			1	30	RWP-CP01
RWP-CP02	15	20	1		360			720		1	20	16 RWP-FCP001
SPARE	17	20	1					780		1	20	18 92HCP0000
SPARE	19	20	1							1	20	20 SPARE
SPARE	21	20	1							1	20	22 SPARE
SPARE	23	20	1							1	20	24 SPARE
SPACE	25						710			3	20	26 ROLL UP DOOR #2
SPACE	27							710		-	-	28 (3/4HP EACH)
SPACE	29							710		-	-	30
SPACE	31									-	-	32 SPACE
SPACE	33									-	-	34 SPACE
SPACE	35									-	-	36 SPACE
SPACE	37									-	-	38 SPACE
SPACE	39									-	-	40 SPACE
SPACE	41									-	-	42 SPACE
TOTAL LOAD				2744	1948	1224	3950	2140	2200			
PHASE A LOAD (VA) =							6694					
PHASE B LOAD (VA) =							4088					
PHASE C LOAD (VA) =							3424					
TOTAL LOAD (VA) =							14206					

RECORD DRAWINGS

Revisions Drawn By JMD Date 8/2006

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DSGN	RW MARTINI														
DR	MS MCNEELY														
CHK	JF TURNER		6/2006	RECORD DRAWING		JMD	RCF								
APVD	CW MASSIE	NO.	DATE	REVISION		BY	APVD								

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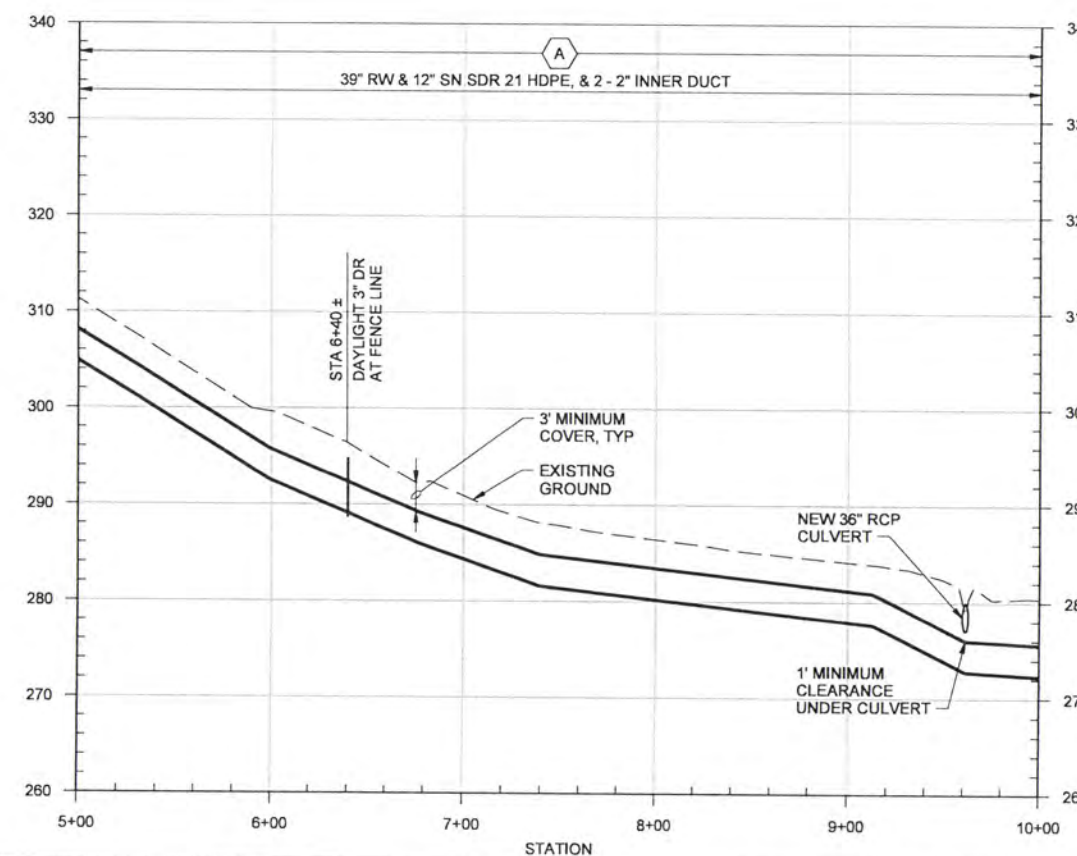
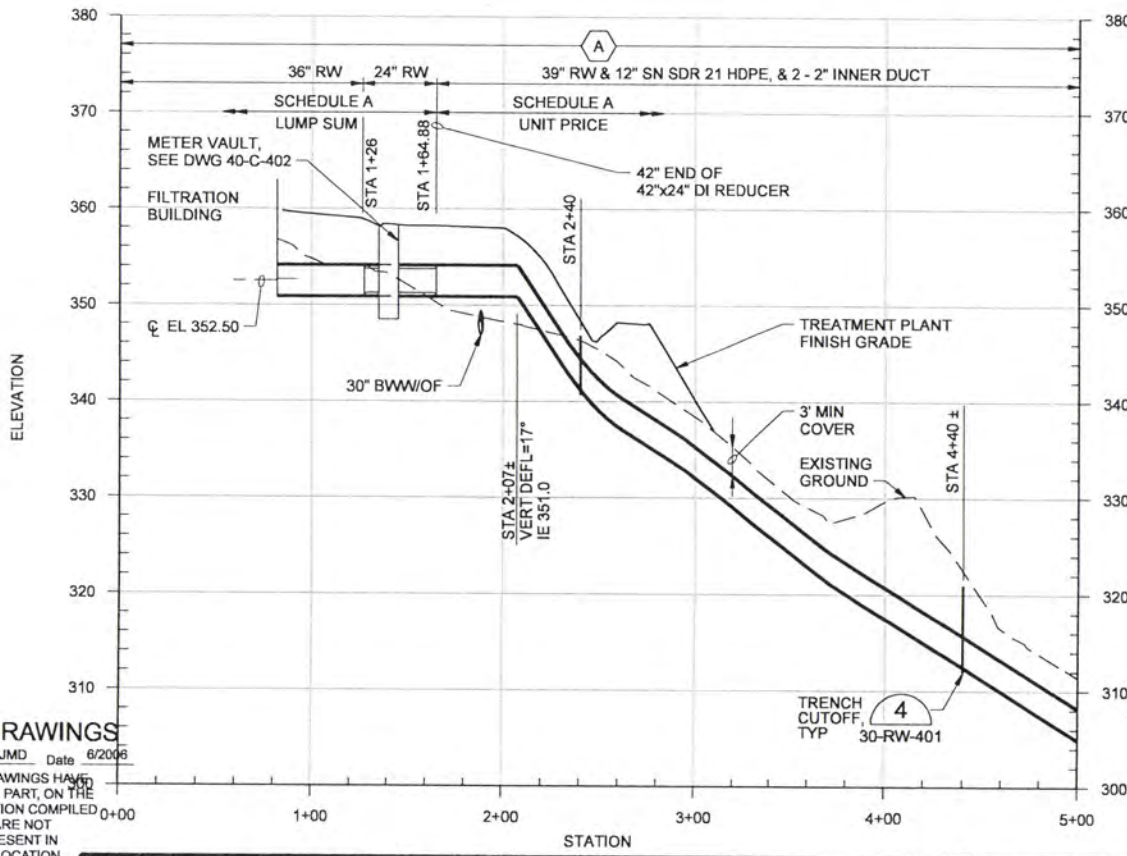
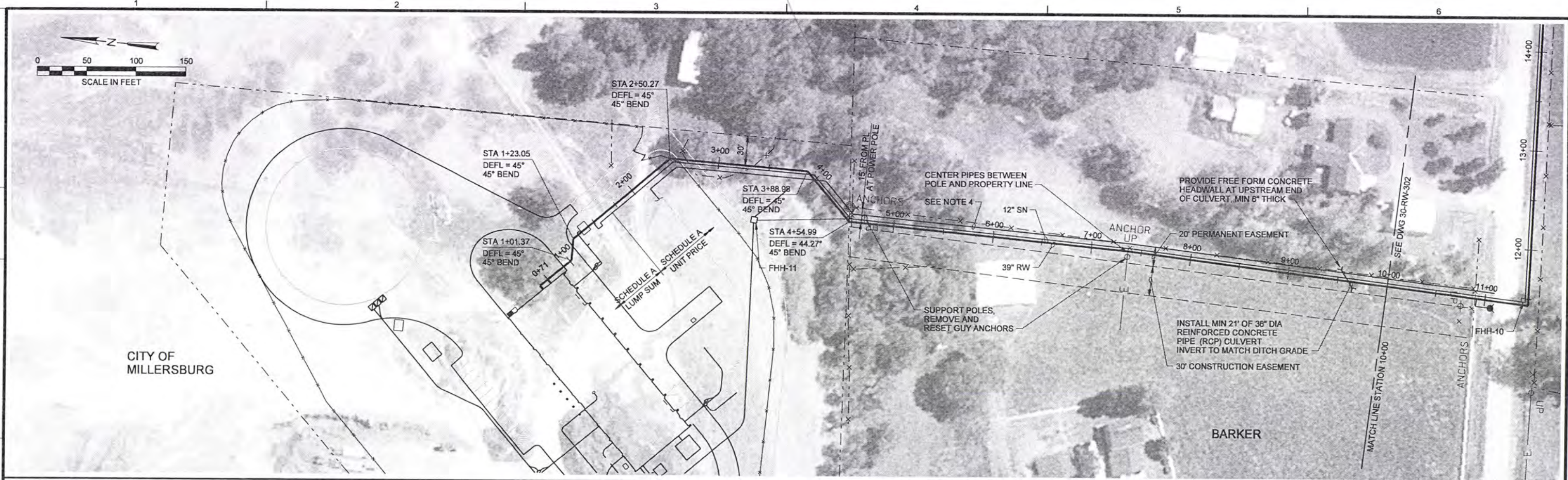
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

RAW WATER PUMP STATION
ELECTRICAL
LUMINAIRE AND PANELBOARD SCHEDULES

SHEET	117
DWG	20-E-503
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
1. STATION AND HORIZONTAL LOCATION ARE TO CENTERLINE OF RW PIPE.
 2. SEE TYPICAL TRENCH SECTIONS ON DWG 30-RW-401.
 3. 39" RW IS 1000mm OR 39.370" OD HDPE.
 4. EXCAVATE A 1' WIDE x 3'-4" DEPTH TRENCH FOR GAS COMPANY TO INSTALL A NATURAL GAS PIPELINE FROM TEDDY AVENUE TO WTP. TRENCH TO BE LOCATED EAST OF 39" RW AND 12" SN, OR AS SHOWN, TO ALLOW FOR A MINIMUM OF 5' CLEAR BETWEEN CLOSEST PIPE AND NATURAL GAS PIPE. AFTER NATURAL GAS PIPE IS INSTALLED, BACKFILL TRENCH.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	GS SILBERNAGEL						
DR	LG McCALL						
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE						
NO.	DATE		REVISION	BY	APVD		

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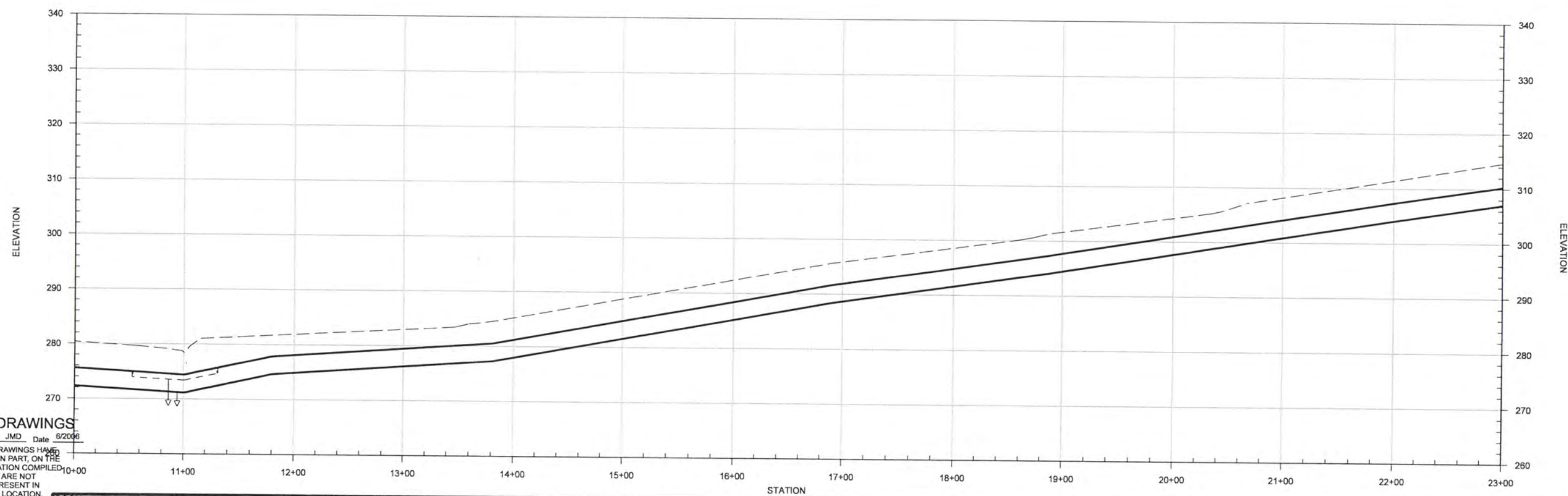
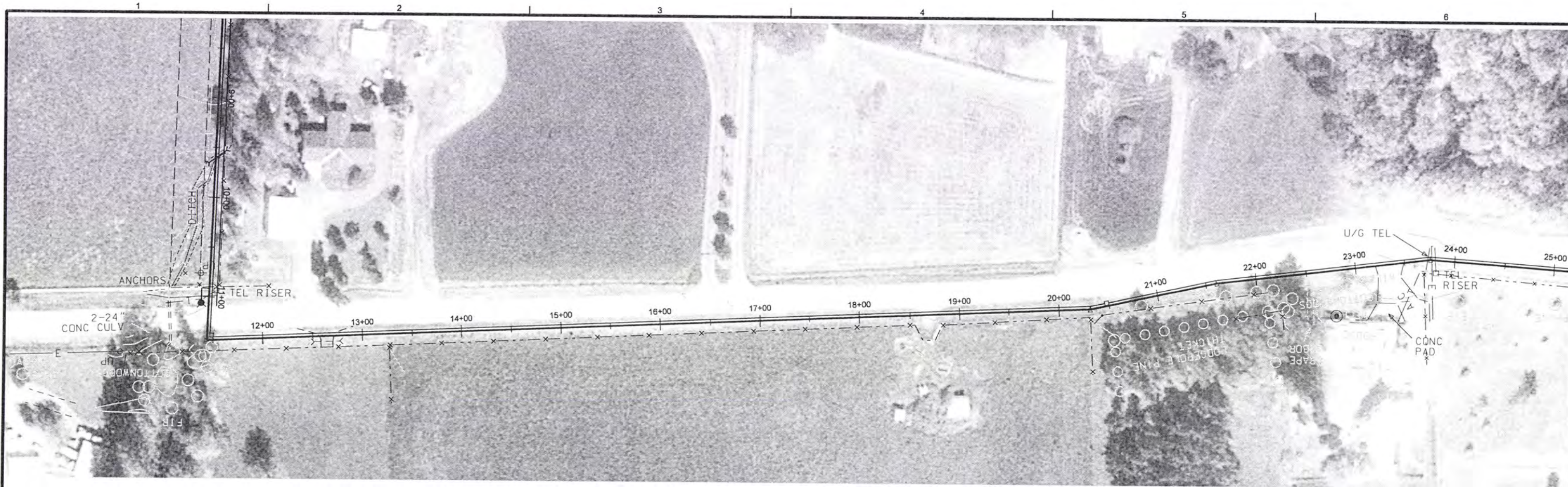
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER TRANSMISSION AND SUPERNATANT PIPELINES

RW PLAN AND PROFILE
 STATION 1+00 TO STATION 10+00

SHEET	118
DWG	30-RW-301
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

Revisions Drawn By JMD Date 6/20/06

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DSGN	GG SILBERNAGEL						
DR	LG McCALL						
CHK	WB WAGNER	6/20/06	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER TRANSMISSION AND SUPERNATANT PIPELINES

RW PLAN AND PROFILE
 STATION 10+00 TO STATION 23+00

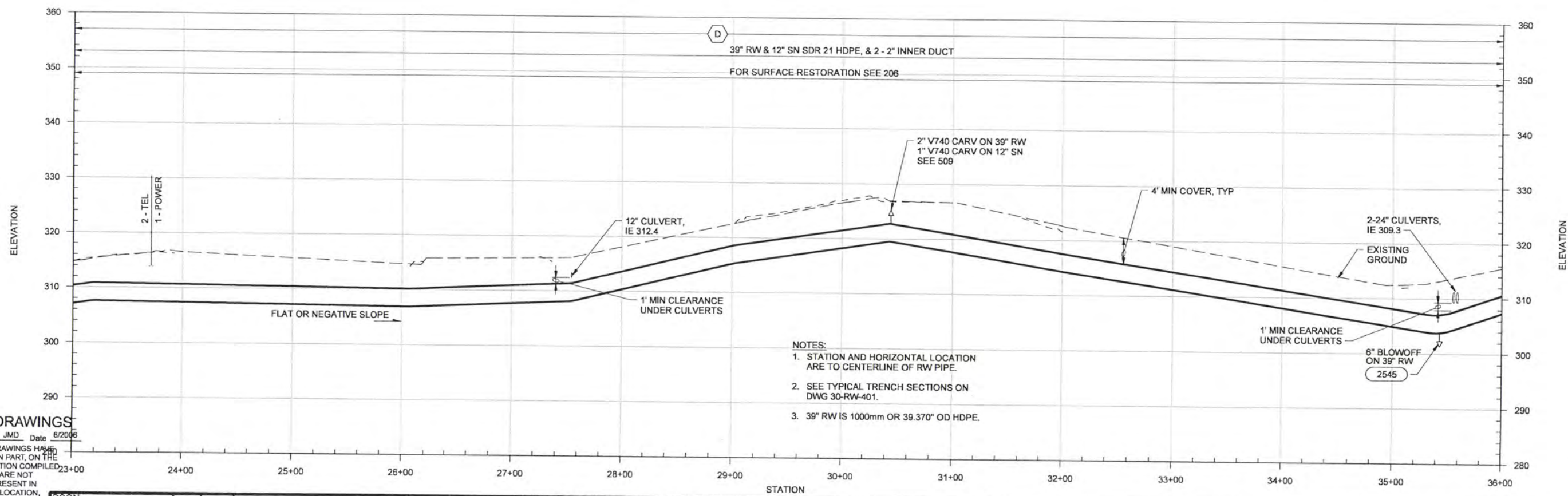
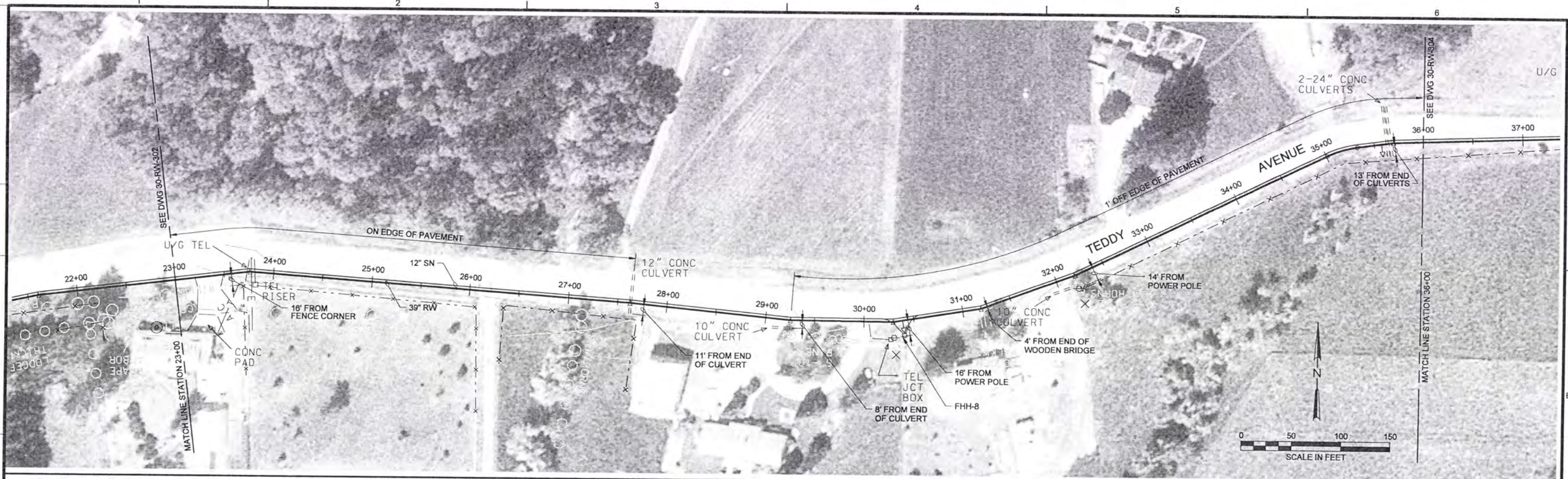
SHEET	119
DWG	30-RW-302
DATE	APRIL 2004
PROJ	170368

FILENAME:

PLOT DATE:

PLOT TIME:

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- NOTES:
1. STATION AND HORIZONTAL LOCATION ARE TO CENTERLINE OF RW PIPE.
 2. SEE TYPICAL TRENCH SECTIONS ON DWG 30-RW-401.
 3. 39" RW IS 1000mm OR 39.370" OD HDPE.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	GG SILBERNAGEL				
DR	LG McCALL				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE			BY	APVD
		NO.	DATE	REVISION	

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

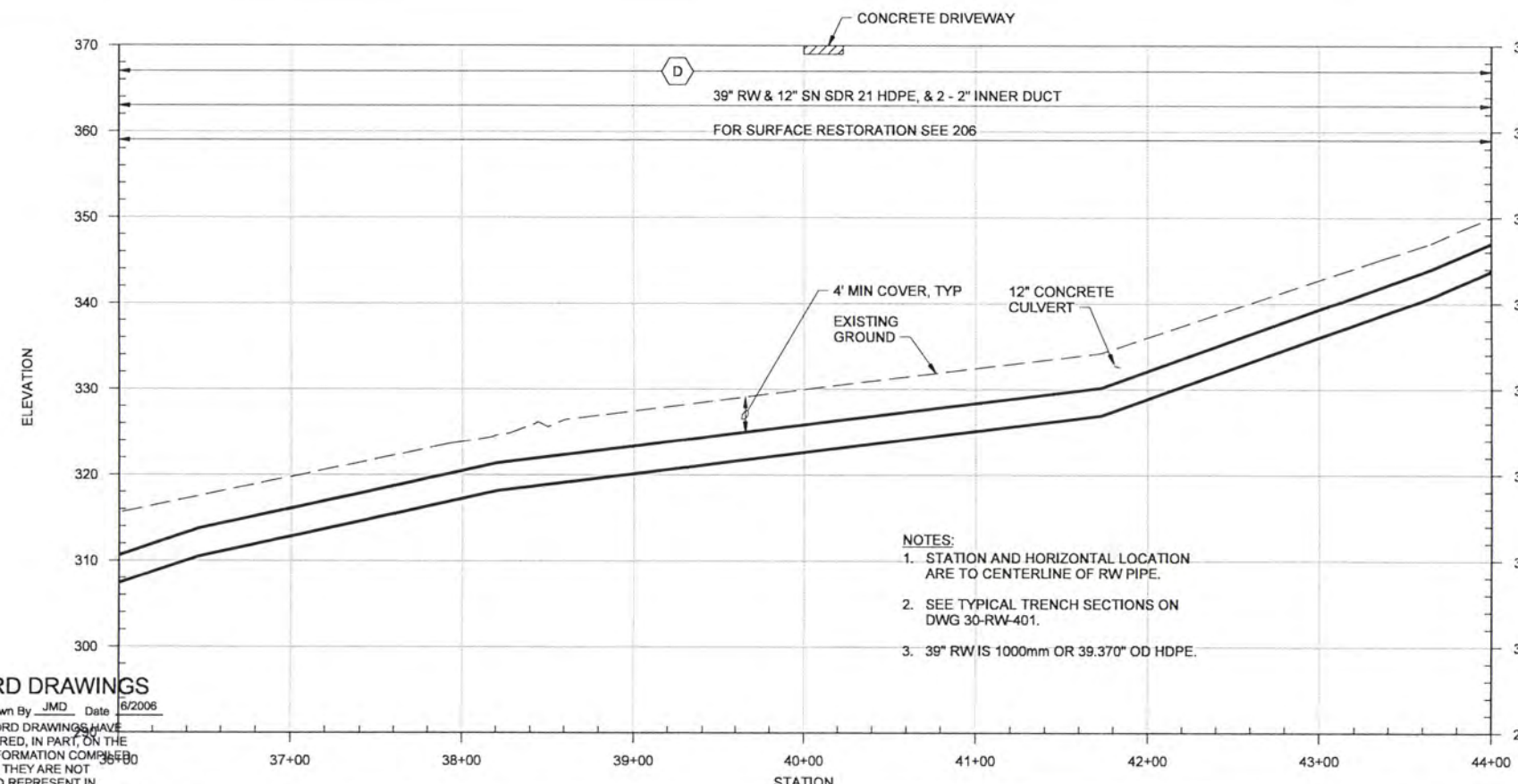
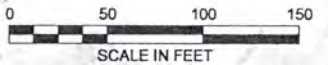
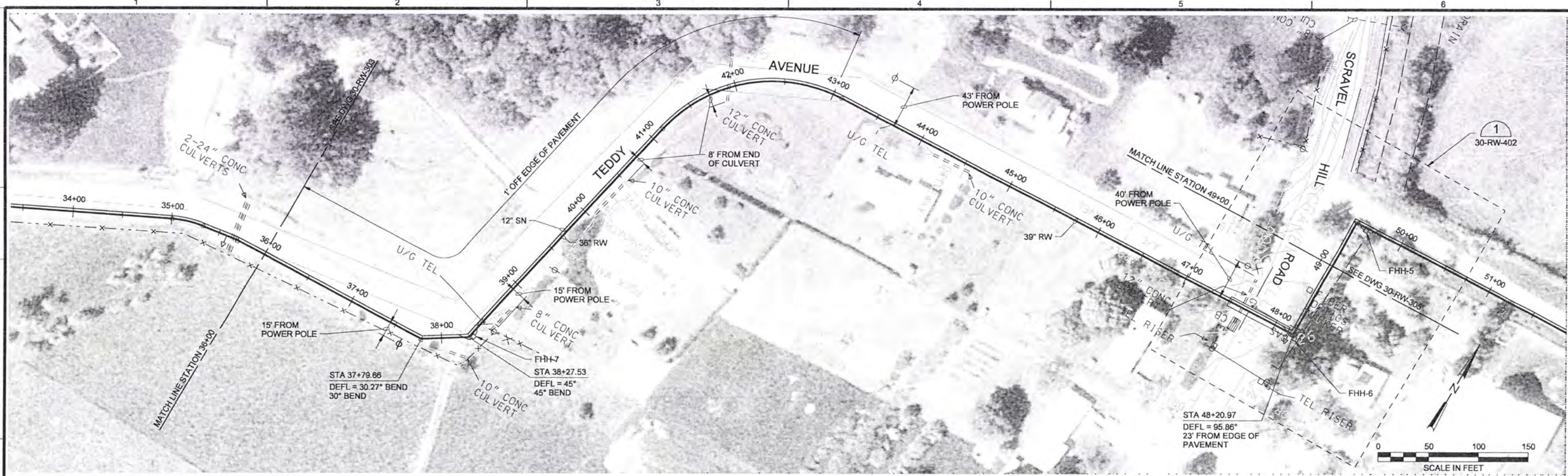


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

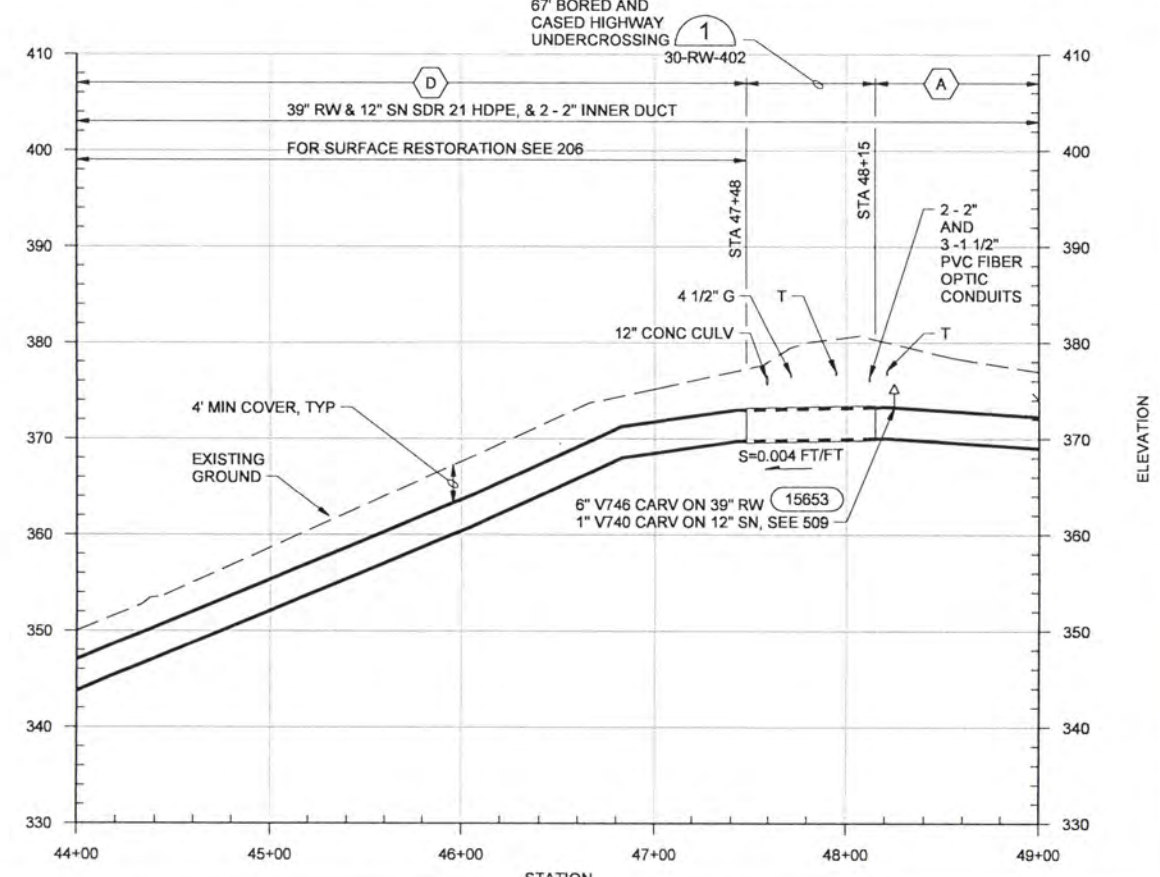
RAW WATER TRANSMISSION AND SUPERNATANT PIPELINES
 RW PLAN AND PROFILE
 STATION 23+00 TO STATION 36+00

SHEET	120
DWG	30-RW-303
DATE	APRIL 2004
PROJ	170368

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- NOTES:
1. STATION AND HORIZONTAL LOCATION ARE TO CENTERLINE OF RW PIPE.
 2. SEE TYPICAL TRENCH SECTIONS ON DWG 30-RW-401.
 3. 39\"/>



RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	GG SILBERNAGEL				
DR	LG McCALL				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

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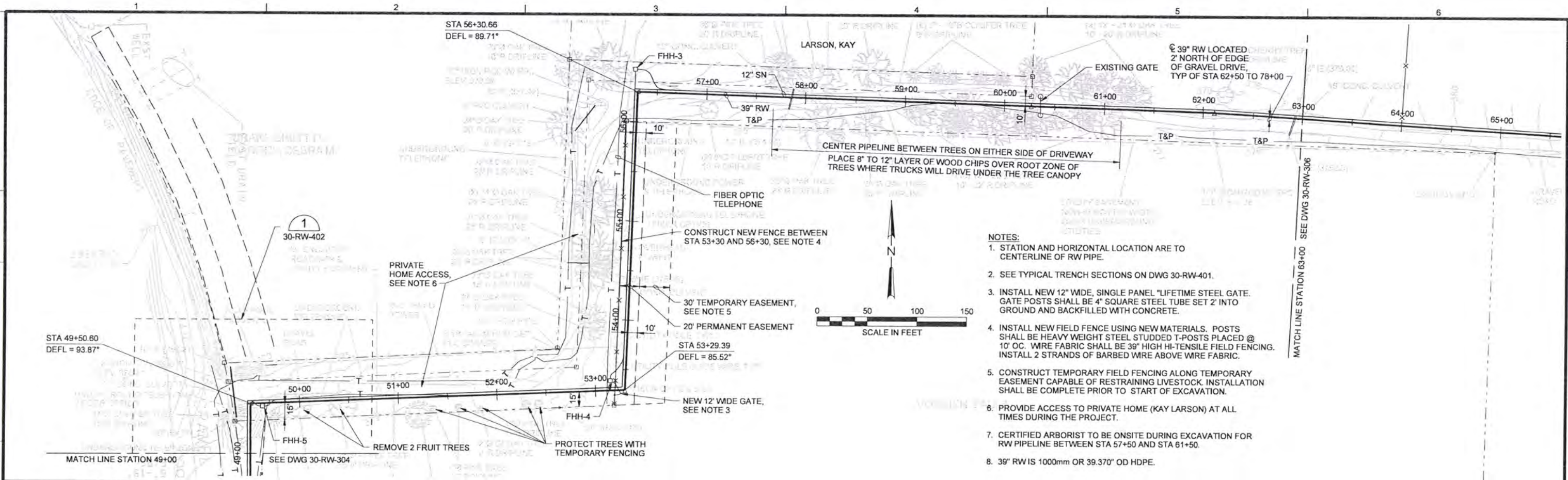


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

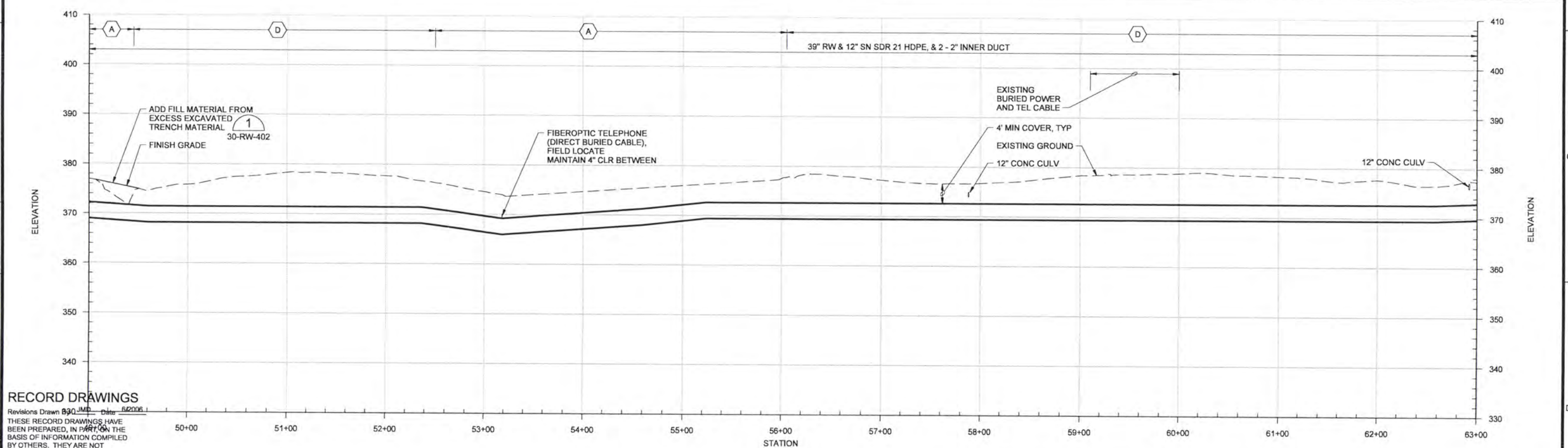
RAW WATER TRANSMISSION AND SUPERNATANT PIPELINES
 RW PLAN AND PROFILE
 STATION 36+00 TO STATION 49+00

SHEET	121
DWG	30-RW-304
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
1. STATION AND HORIZONTAL LOCATION ARE TO CENTERLINE OF RW PIPE.
 2. SEE TYPICAL TRENCH SECTIONS ON DWG 30-RW-401.
 3. INSTALL NEW 12" WIDE, SINGLE PANEL "LIFETIME STEEL GATE. GATE POSTS SHALL BE 4" SQUARE STEEL TUBE SET 2" INTO GROUND AND BACKFILLED WITH CONCRETE.
 4. INSTALL NEW FIELD FENCE USING NEW MATERIALS. POSTS SHALL BE HEAVY WEIGHT STEEL STUDDED T-POSTS PLACED @ 10' OC. WIRE FABRIC SHALL BE 39" HIGH HI-TENSILE FIELD FENCING. INSTALL 2 STRANDS OF BARBED WIRE ABOVE WIRE FABRIC.
 5. CONSTRUCT TEMPORARY FIELD FENCING ALONG TEMPORARY EASEMENT CAPABLE OF RESTRAINING LIVESTOCK. INSTALLATION SHALL BE COMPLETE PRIOR TO START OF EXCAVATION.
 6. PROVIDE ACCESS TO PRIVATE HOME (KAY LARSON) AT ALL TIMES DURING THE PROJECT.
 7. CERTIFIED ARBORIST TO BE ONSITE DURING EXCAVATION FOR RW PIPELINE BETWEEN STA 57+50 AND STA 61+50.
 8. 39" RW IS 1000mm OR 39.370" OD HDPE.



RECORD DRAWINGS

Revisions Drawn 8/30/06 Date 6/2006
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DSGN	GG SILBERNAGEL						
DR	LG McCALL						
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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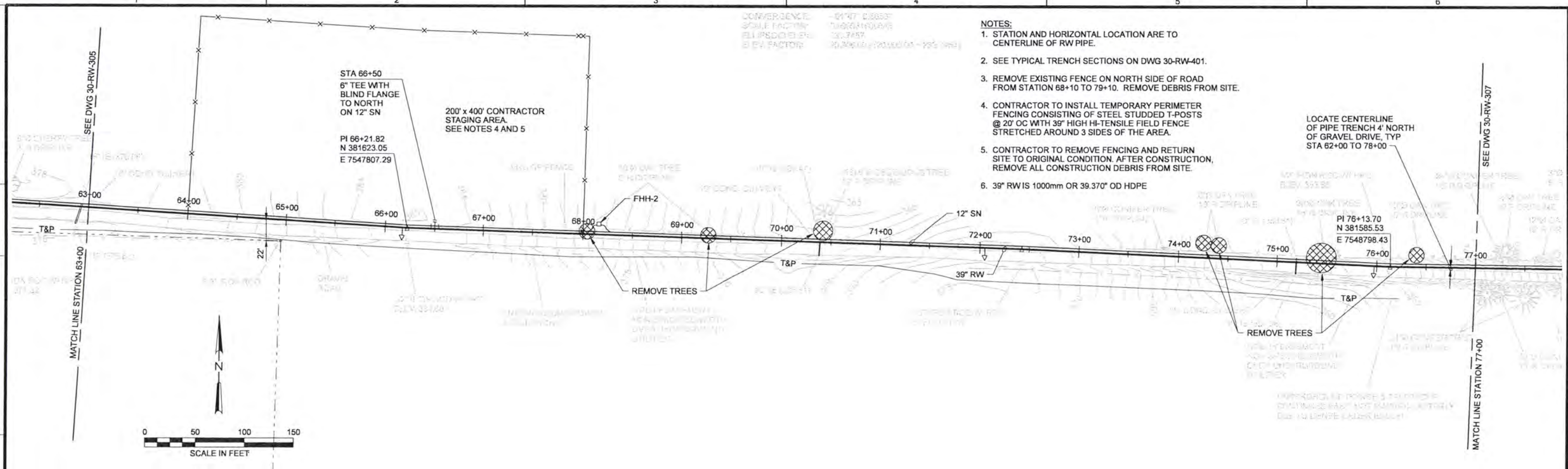


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 LINN COUNTY, OREGON

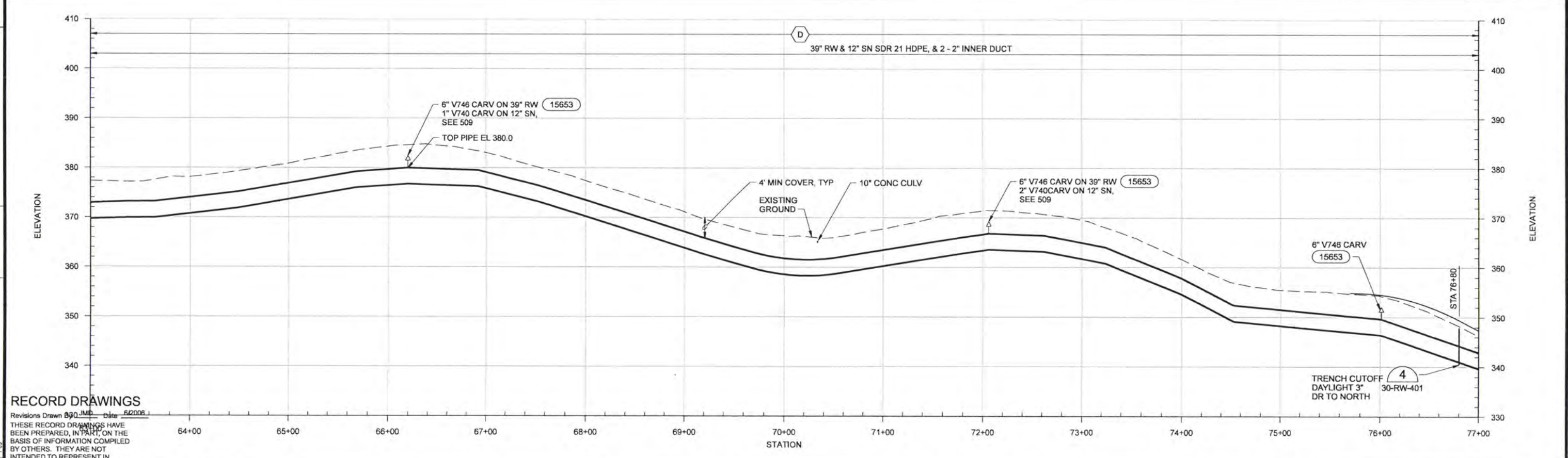
RAW WATER TRANSMISSION AND SUPERNATANT PIPELINES
 RW PLAN AND PROFILE
 STATION 49+00 TO STATION 63+00

SHEET	122
DWG	30-RW-305
DATE	APRIL 2004
PROJ	170368

REUSE OF DOCUMENTS: CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL



- CONVERGENCE:** -01°47' 0.8883"
SCALE FACTOR: 1/62621.6048
ELLIPSOID: 30.7457
SEA LEVEL: 20.2666 (20000000.0000)
- NOTES:**
1. STATION AND HORIZONTAL LOCATION ARE TO CENTERLINE OF RW PIPE.
 2. SEE TYPICAL TRENCH SECTIONS ON DWG 30-RW-401.
 3. REMOVE EXISTING FENCE ON NORTH SIDE OF ROAD FROM STATION 68+10 TO 79+10. REMOVE DEBRIS FROM SITE.
 4. CONTRACTOR TO INSTALL TEMPORARY PERIMETER FENCING CONSISTING OF STEEL STUDDED T-POSTS @ 20' OC WITH 39" HIGH HI-TENSILE FIELD FENCE STRETCHED AROUND 3 SIDES OF THE AREA.
 5. CONTRACTOR TO REMOVE FENCING AND RETURN SITE TO ORIGINAL CONDITION. AFTER CONSTRUCTION, REMOVE ALL CONSTRUCTION DEBRIS FROM SITE.
 6. 39" RW IS 1000mm OR 39.370" OD HDPE



RECORD DRAWINGS

Revisions Drawn 03/30/06 JMD Date 6/2006
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DSGN	GG SILBERNAGEL				
DR	L.G. McCALL				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

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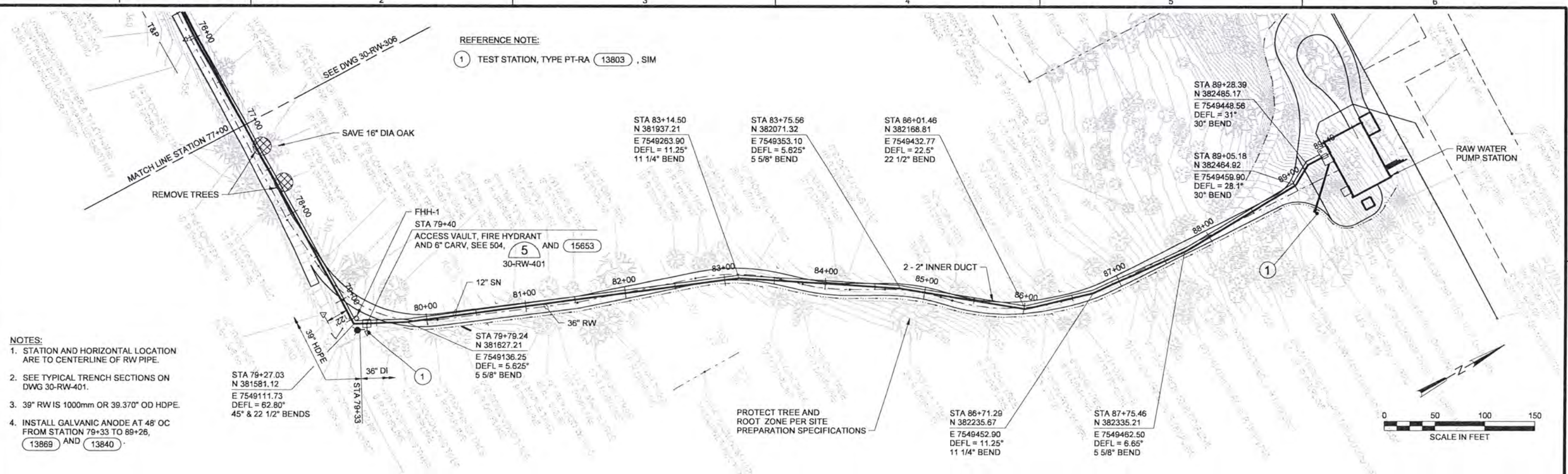


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 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

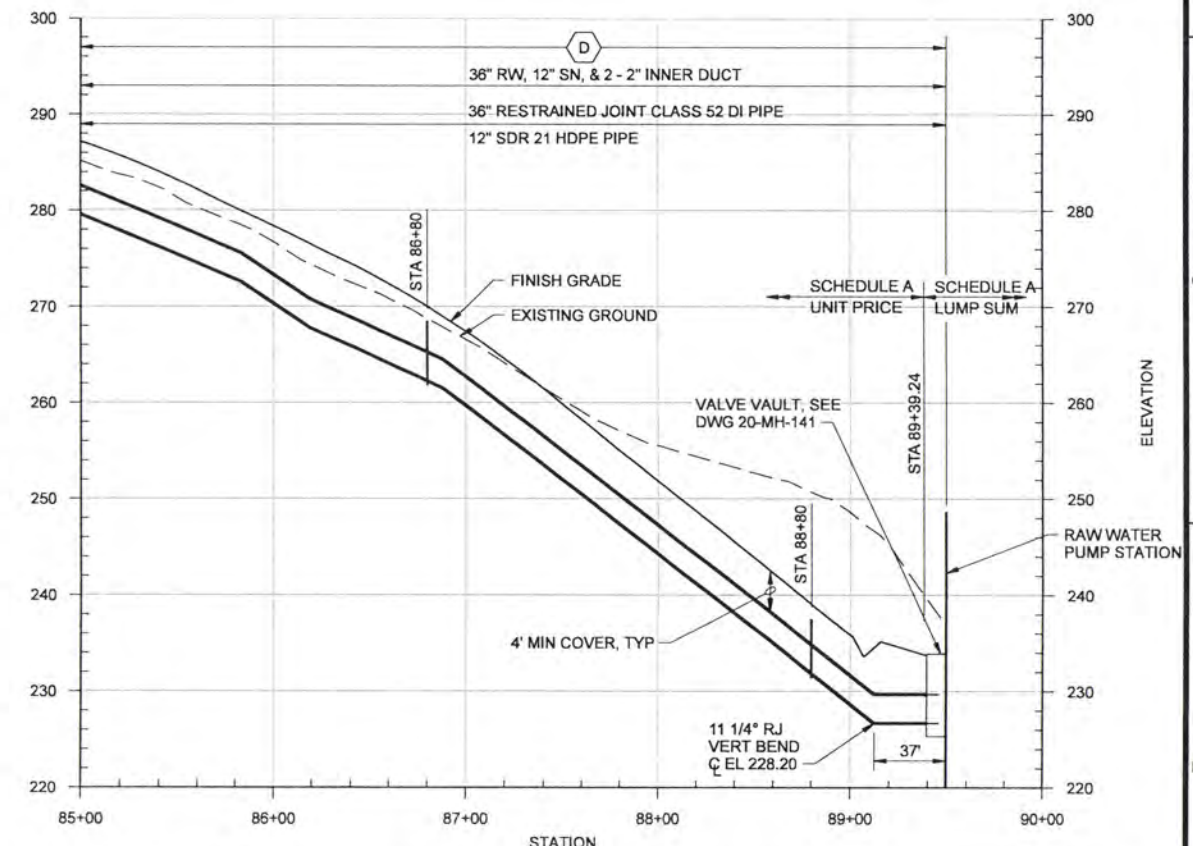
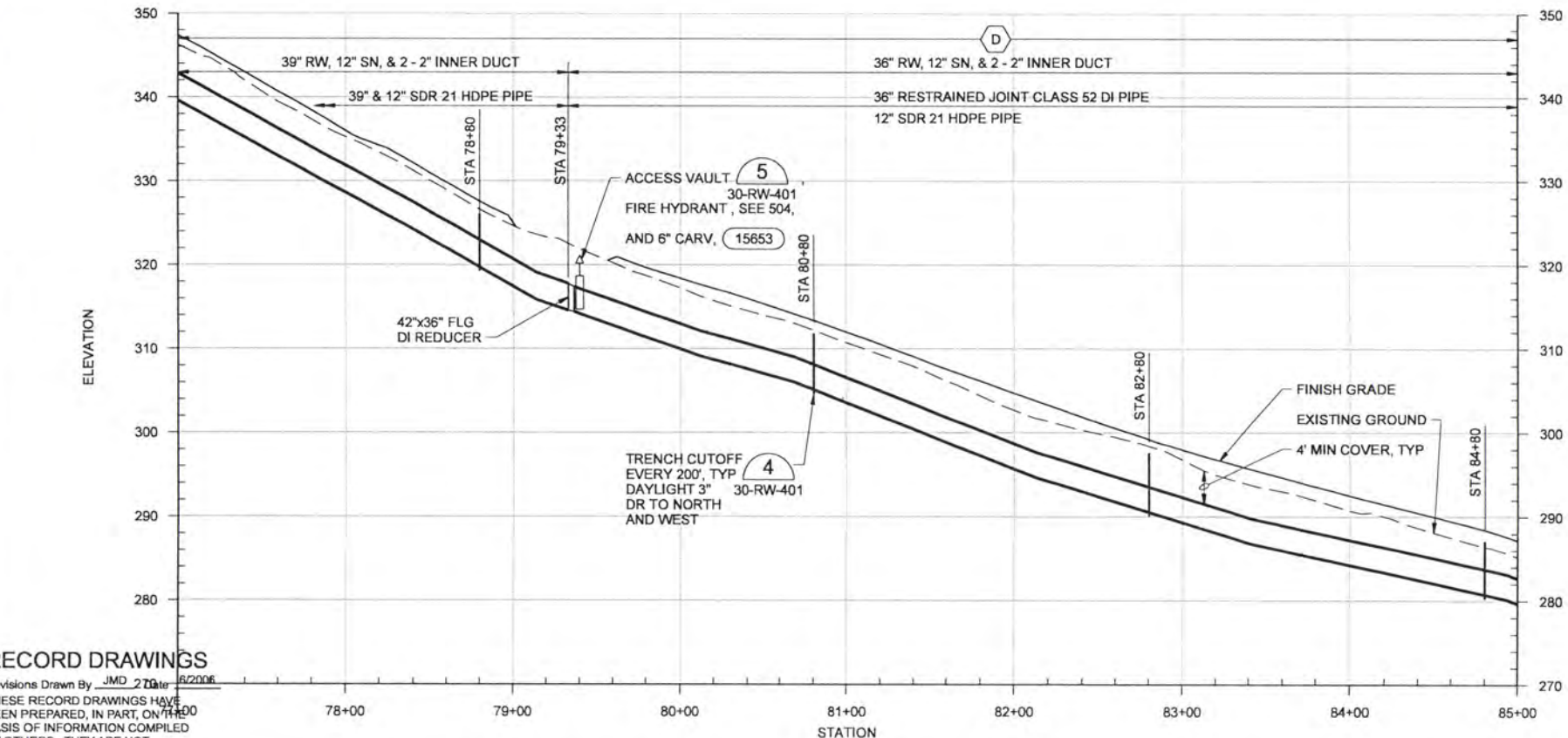
RAW WATER TRANSMISSION AND SUPERNATANT PIPELINES
 RW PLAN AND PROFILE
 STATION 63+00 TO STATION 77+00

SHEET	123
DWG	30-RW-306
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
1. STATION AND HORIZONTAL LOCATION ARE TO CENTERLINE OF RW PIPE.
 2. SEE TYPICAL TRENCH SECTIONS ON DWG 30-RW-401.
 3. 39" RW IS 1000mm OR 39.370" OD HDPE.
 4. INSTALL GALVANIC ANODE AT 48" OC FROM STATION 79+33 TO 89+26, 13869 AND 13840.



RECORD DRAWINGS

Revisions Drawn By JMD 2/2006
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DSGN	GG SILBERNAGEL				
DR	LG McCALL				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE				
	NO.	DATE	REVISION	BY	APVD

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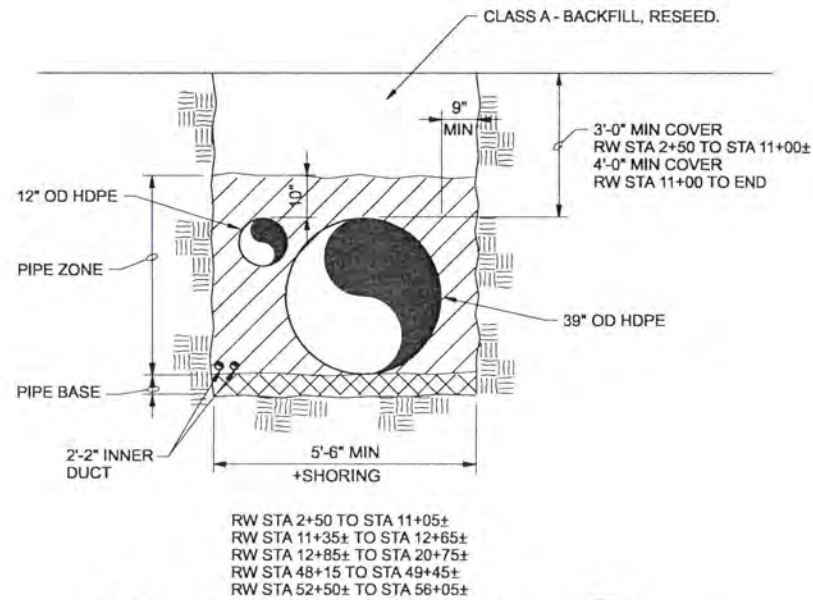


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER TRANSMISSION AND SUPERNATANT PIPELINES
 RW PLAN AND PROFILE
 STATION 77+00 TO STATION END

SHEET	124
DWG	30-RW-307
DATE	APRIL 2004
PROJ	170368

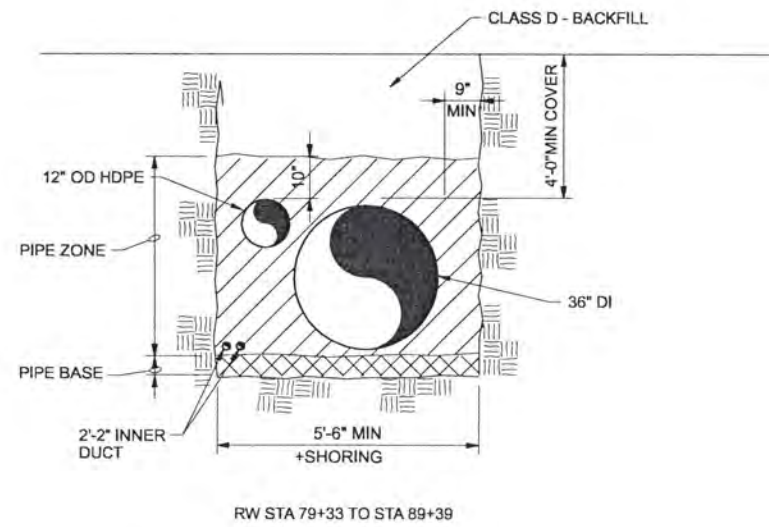
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TYPICAL TRENCH SECTION 1

1/2"=1'-0"

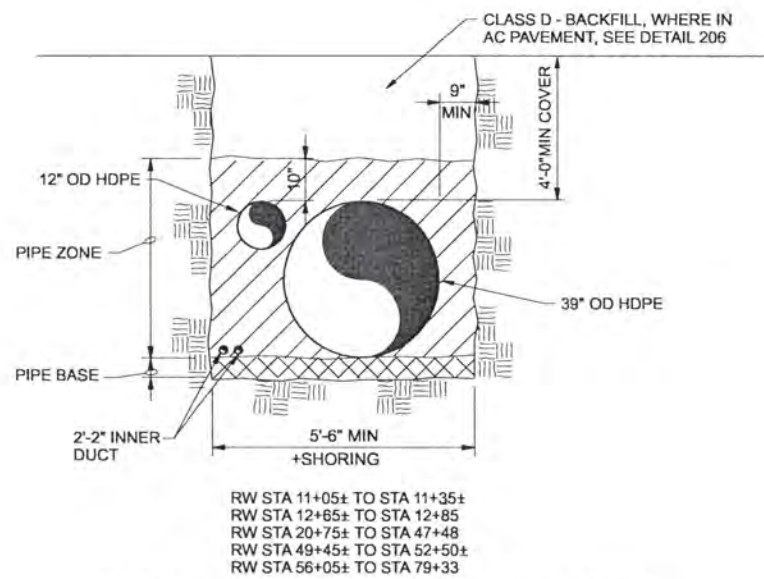
30-RW-301
30-RW-302
30-RW-304
30-RW-305



TYPICAL TRENCH SECTION 3

1/2"=1'-0"

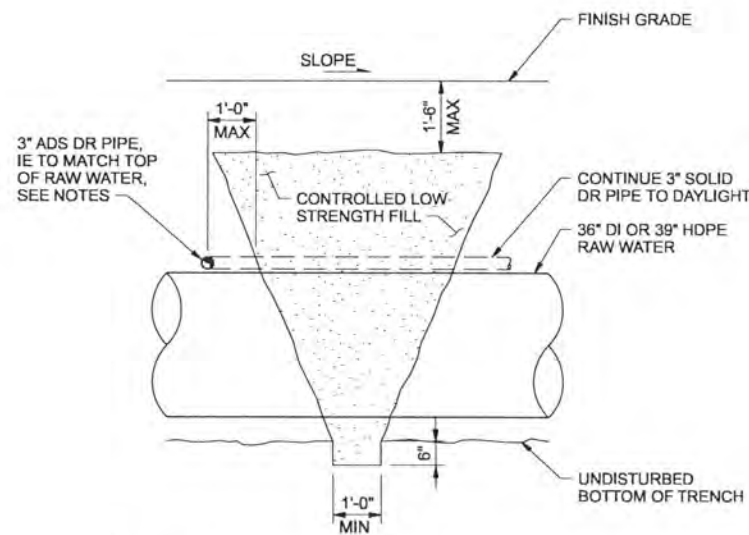
30-RW-307



TYPICAL TRENCH SECTION 2

1/2"=1'-0"

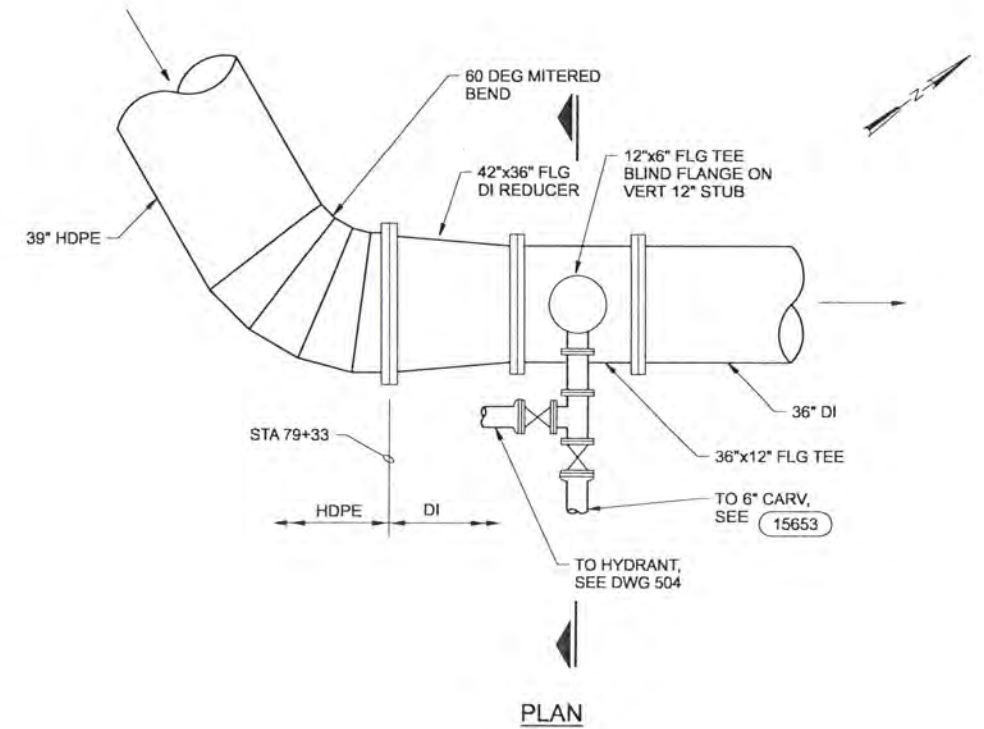
30-RW-302
30-RW-303
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30-RW-305
30-RW-306
30-RW-307



RAW WATER TRENCH CUTOFF 4

1/2"=1'-0"

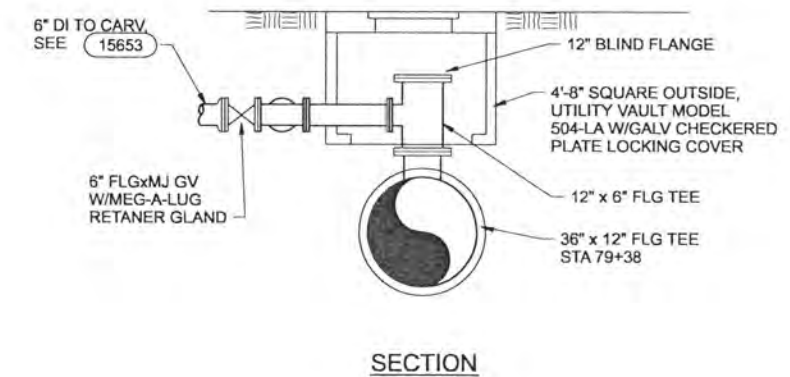
30-RW-301
30-RW-306
30-RW-307



RAW WATER ACCESS VAULT 5

3/8"=1'-0"

30-RW-307



SECTION

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	JT ASHLEY						
DR	LG McCALL						
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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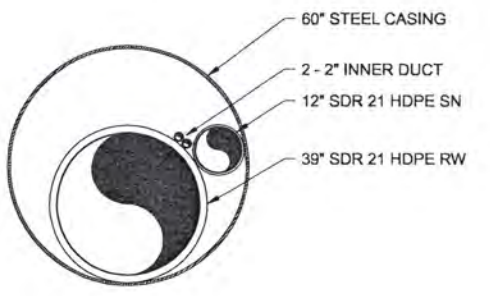
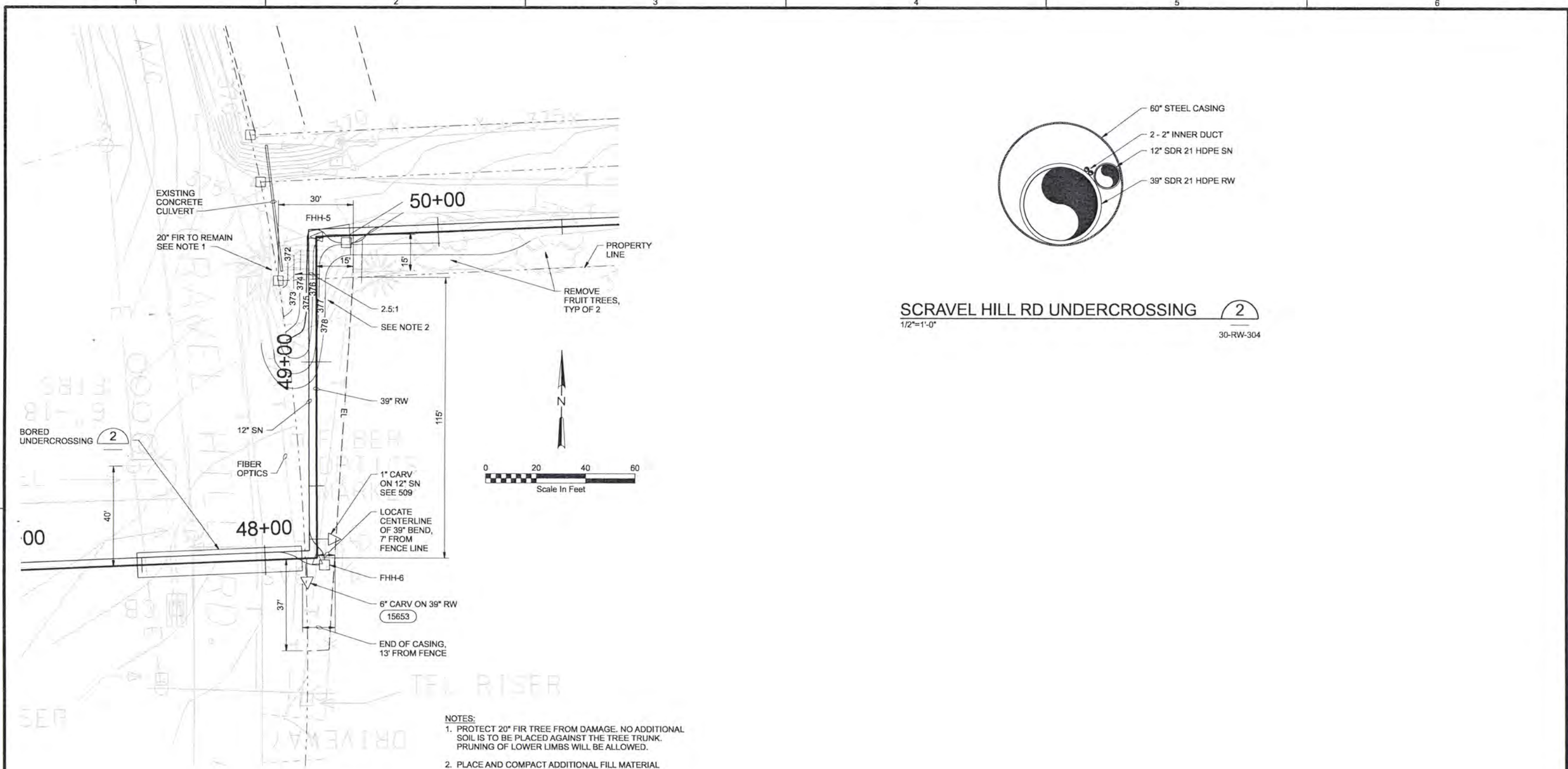


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER TRANSMISSION AND SUPERNATANT PIPELINES
 DETAILS

SHEET	125
DWG	30-RW-401
DATE	APRIL 2004
PROJ	170368

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SCRAEL HILL RD UNDERCROSSING 2
 1/2"=1'-0" 30-RW-304

- NOTES:**
- PROTECT 20' FIR TREE FROM DAMAGE. NO ADDITIONAL SOIL IS TO BE PLACED AGAINST THE TREE TRUNK. PRUNING OF LOWER LIMBS WILL BE ALLOWED.
 - PLACE AND COMPACT ADDITIONAL FILL MATERIAL FROM EXCESS TRENCH EXCAVATION, TO MAINTAIN UNIFORM PIPE SLOPE FROM STATION 49+00± TO STATION 50+00±. MATCH NEW CONTOURS SHOWN.

DETAIL 1
 1"=20' 30-RW-304
30-RW-305

RECORD DRAWINGS

Revisions Drawn By JMD Date 8/2006
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DSGN	GG SILBERNAGEL								
DR	LG McCALL								
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			



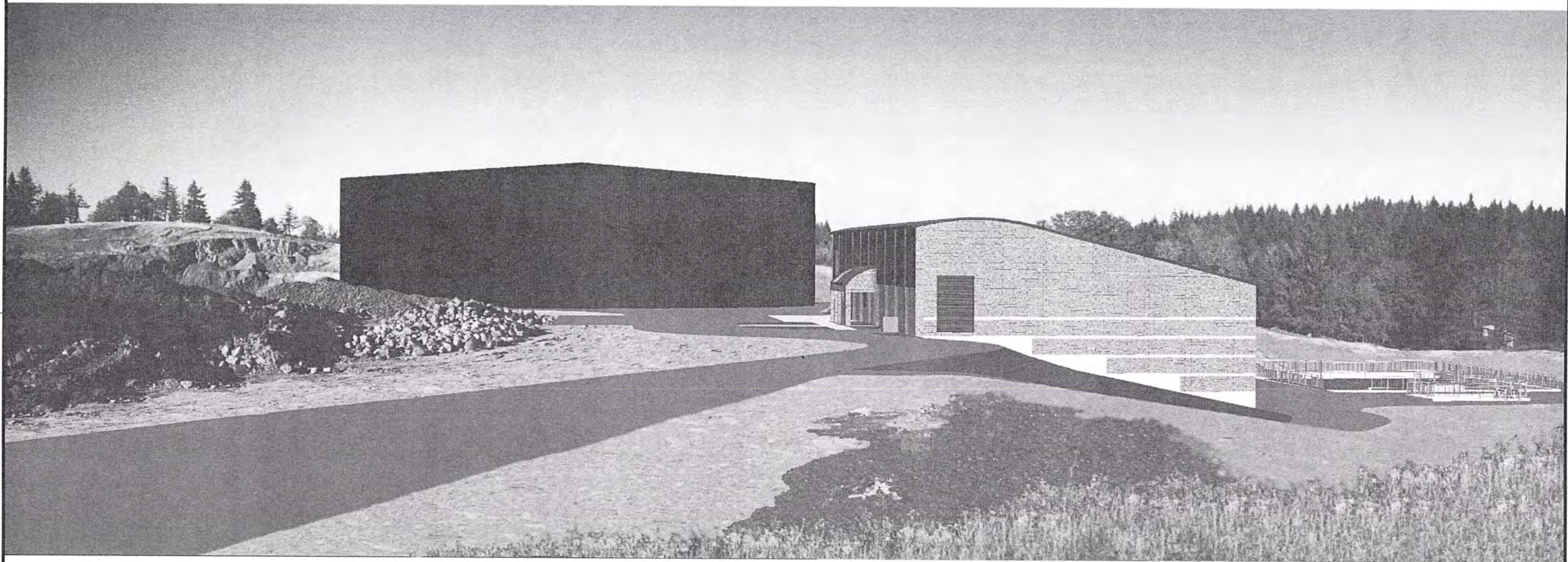
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

RAW WATER TRANSMISSION AND SUPERNATANT PIPELINES

DETAILS

SHEET	126
DWG	30-RW-402
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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DSGN	JE CAVE								
DR	JA HOSTETLER								
CHK	EB PIETERICK		6/2006	RECORD DRAWING		JMD	RCF		
APVD	CW MASSIE		NO.	DATE	REVISION	BY	APVD		

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
 RENDERING - OVERALL SITE SOUTHWEST VIEW

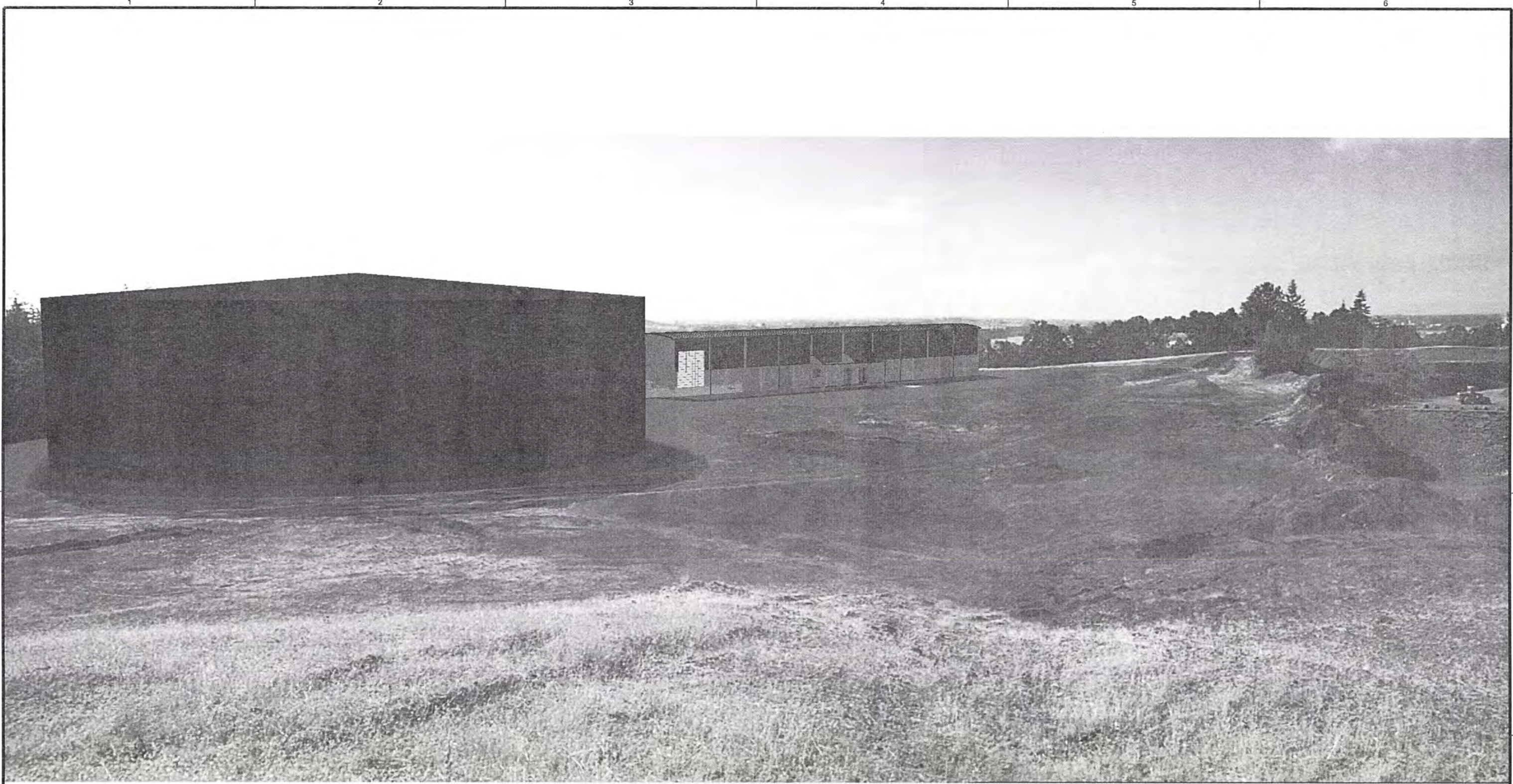
SHEET	127
DWG	40-R-001
DATE	APRIL 2004
PROJ	170368

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PLOT DATE: 26-AUG-2003

PLOT TIME: 17:08:23

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DSGN	JE CAVE								
DR	JA HOSTETLER								
CHK	EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	BY	APVD				
			REVISION						

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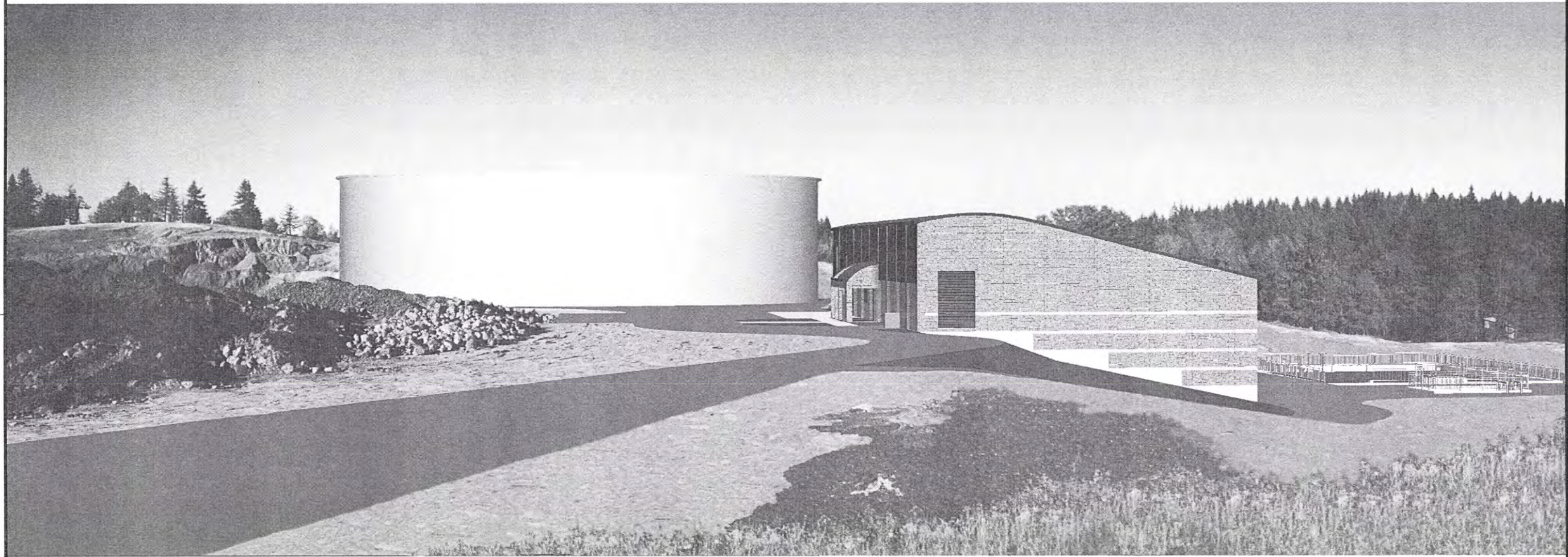


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
 RENDERING - OVERALL SITE NORTH VIEW

SHEET	128
DWG	40-R-002
DATE	APRIL 2004
PROJ	170368

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DSGN	JE CAVE						
DR	JA HOSTETLER						
CHK	EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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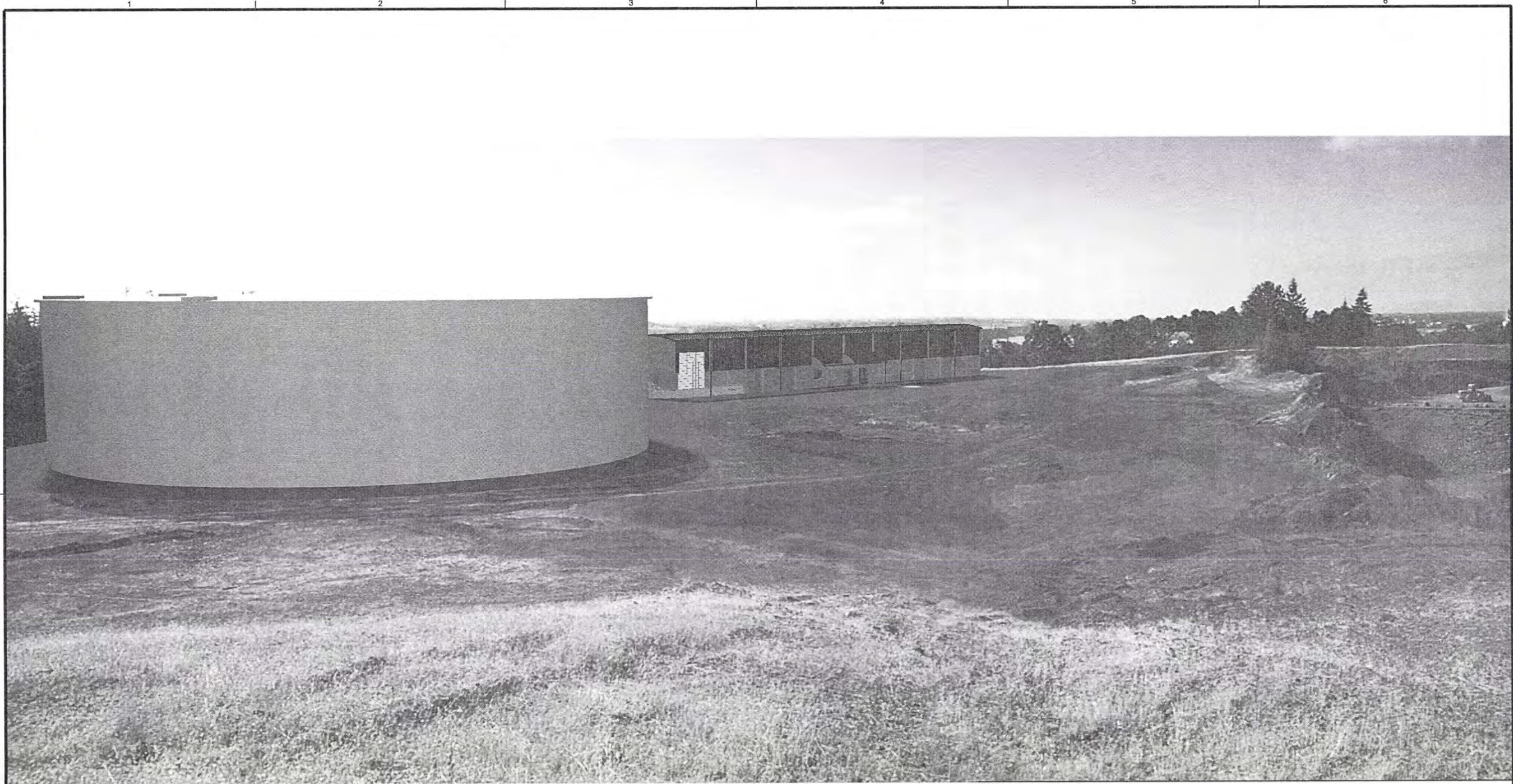


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
 RENDERING - OVERALL SITE SOUTHWEST VIEW

SHEET	129
DWG	40-R-003
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

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DSGN	JE CAVE						
DR	JA HOSTETTLER						
CHK	EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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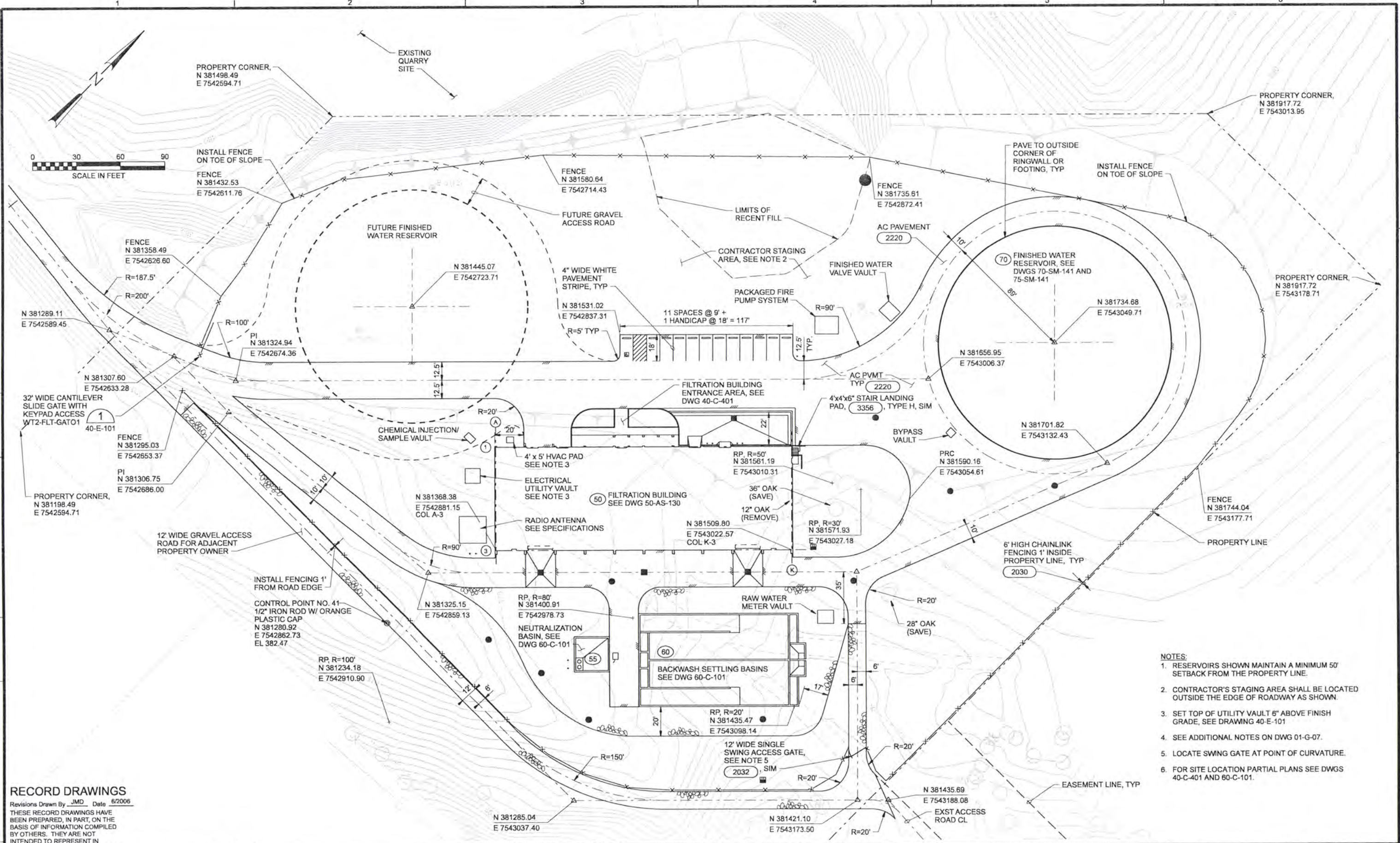


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
 RENDERING - OVERALL SITE NORTH VIEW

SHEET	130
DWG	40-R-004
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
1. RESERVOIRS SHOWN MAINTAIN A MINIMUM 50' SETBACK FROM THE PROPERTY LINE.
 2. CONTRACTOR'S STAGING AREA SHALL BE LOCATED OUTSIDE THE EDGE OF ROADWAY AS SHOWN.
 3. SET TOP OF UTILITY VAULT 6" ABOVE FINISH GRADE, SEE DRAWING 40-E-101
 4. SEE ADDITIONAL NOTES ON DWG 01-G-07.
 5. LOCATE SWING GATE AT POINT OF CURVATURE.
 6. FOR SITE LOCATION PARTIAL PLANS SEE DWGS 40-C-401 AND 60-C-101.

RECORD DRAWINGS

Revisions Drawn By **JMD** Date **6/2006**

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DSGN	JT ASHLEY				
DR	JT ASHLEY				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

VERIFY SCALE

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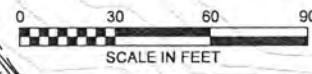
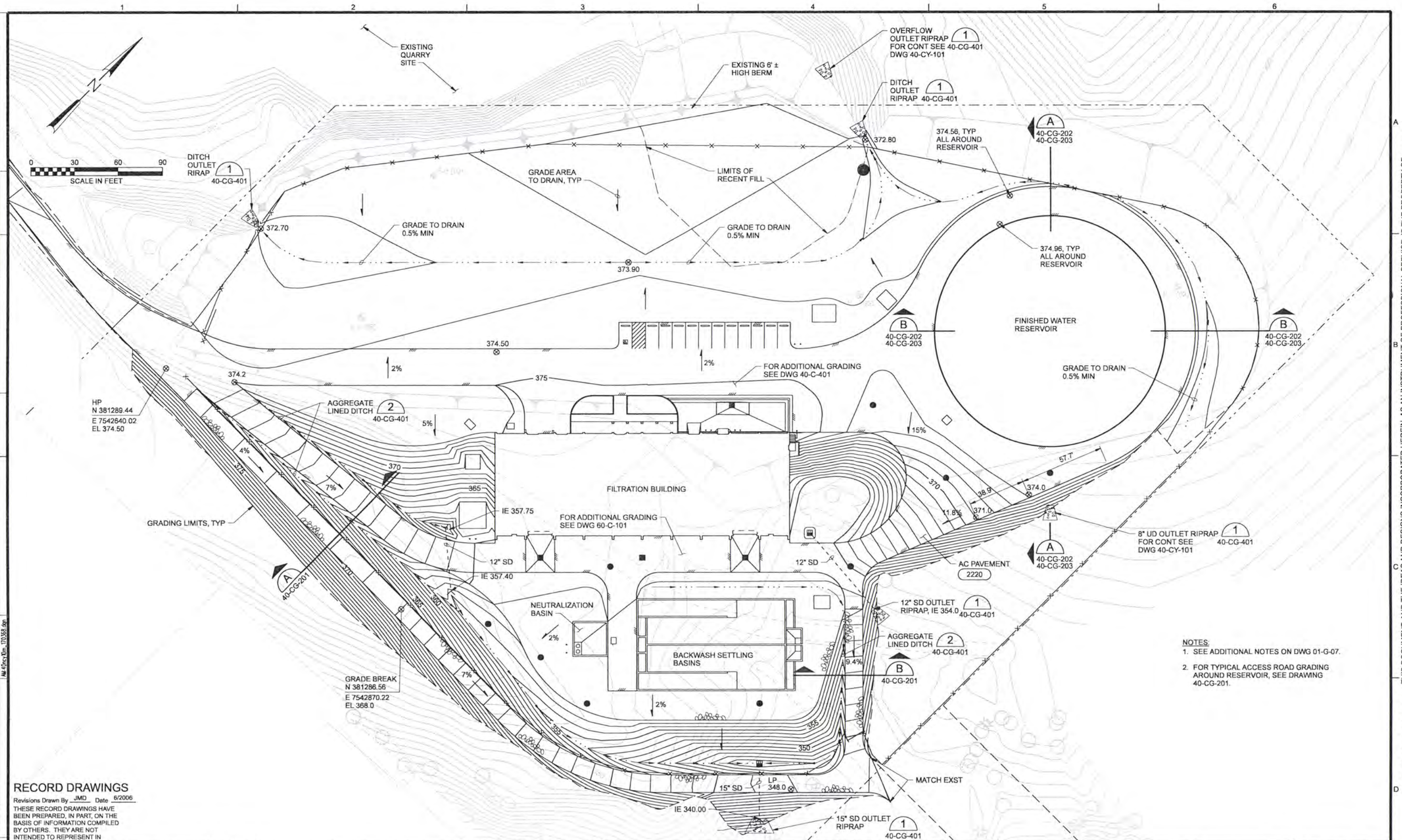


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
CIVIL
SITE LOCATION PLAN

SHEET	131
DWG	40-C-101
DATE	APRIL 2004
PROJ	170368

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- NOTES:
1. SEE ADDITIONAL NOTES ON DWG 01-G-07.
 2. FOR TYPICAL ACCESS ROAD GRADING AROUND RESERVOIR, SEE DRAWING 40-CG-201.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DR	JT ASHLEY						
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APVD	CW MASSIE	NO.	DATE	BY	APVD		

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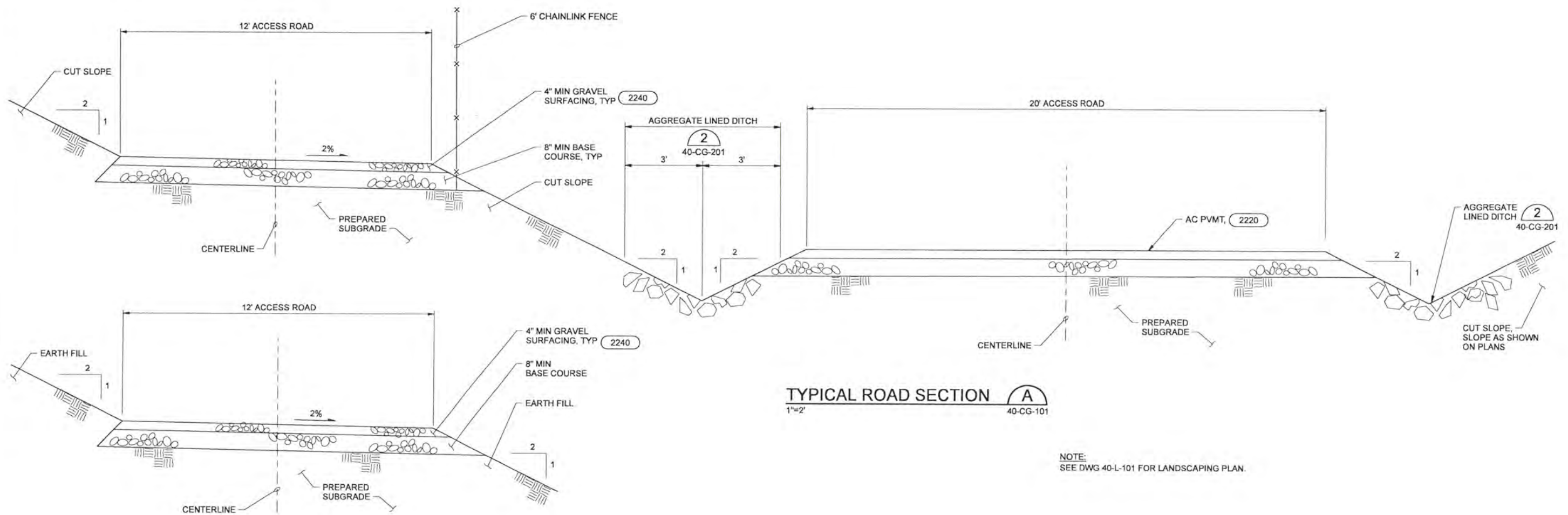


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
 CIVIL
 GRADING PLAN

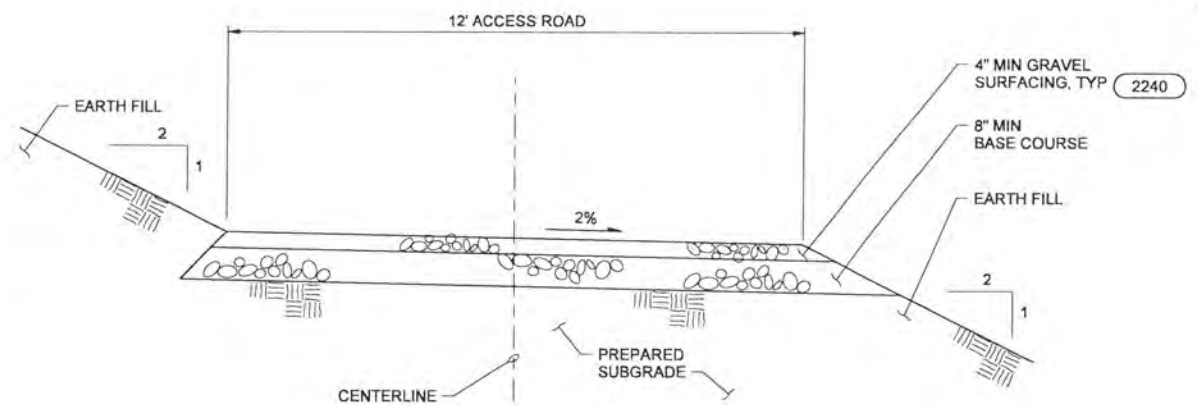
SHEET	132
DWG	40-CG-101
DATE	APRIL 2004
PROJ	170368

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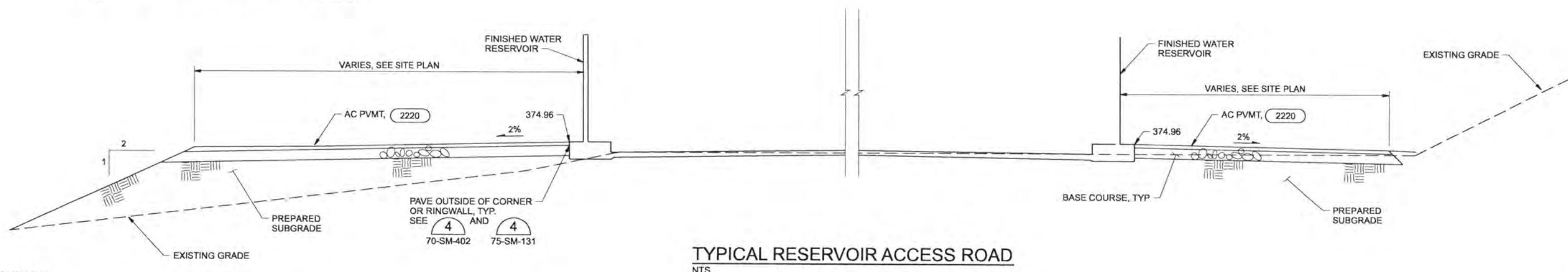


TYPICAL ROAD SECTION **A**
1"=2' 40-CG-101

NOTE:
SEE DWG 40-L-101 FOR LANDSCAPING PLAN.



TYPICAL ROAD SECTION **B**
1"=2' 40-CG-101



TYPICAL RESERVOIR ACCESS ROAD
NTS

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DR	D FORDHAM						
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APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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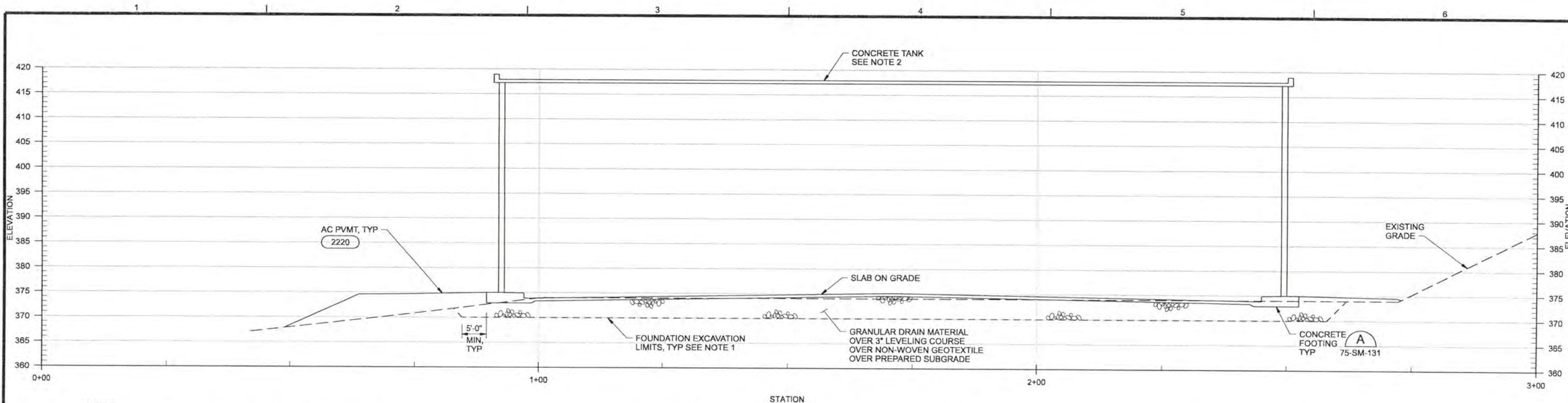


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
CIVIL SITE SECTIONS

SHEET	133
DWG	40-CG-201
DATE	APRIL 2004
PROJ	170368

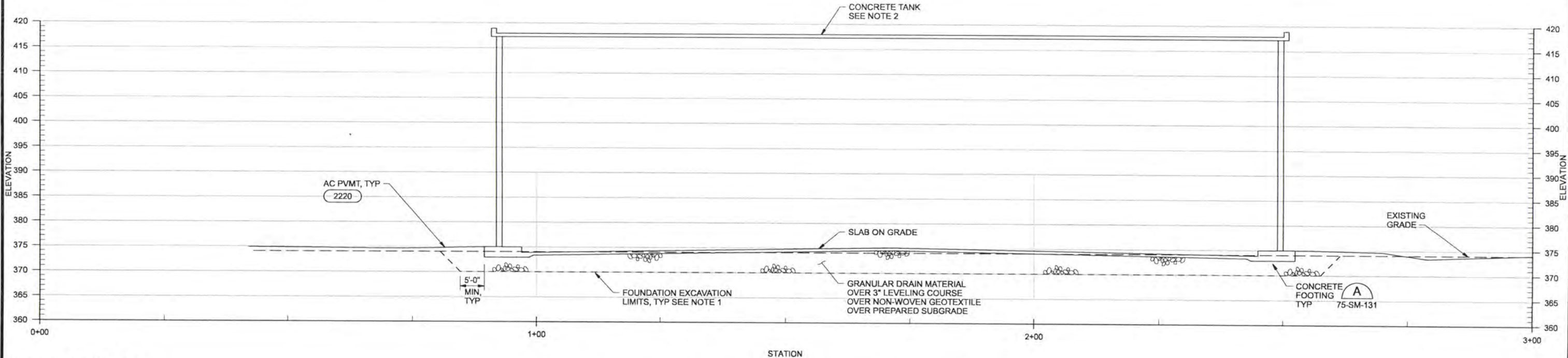
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CONCRETE RESERVOIR SECTION A
NTS 40-CG-101

NOTES:

- EXCAVATION SIDE SLOPES ARE SHOWN SOLELY FOR THE PURPOSE OF ILLUSTRATION BACKFILL REQUIREMENTS. BY SHOWING SUCH SLOPES, THE ENGINEER DOES NOT INTEND TO IMPLY ANY PARTICULAR SLOPE IS TO BE USED OR WOULD BE STABLE. THE CONTRACTOR IS RESPONSIBLE FOR SELECTING AND MAINTAINING SAFE TEMPORARY EXCAVATION SLOPES.
- SEE DRAWING 75-SM-141 FOR ADDITIONAL INFORMATION.
- BACKFILL AROUND TANK PER SECTION 02315 OF THE SPECIFICATIONS.



CONCRETE RESERVOIR SECTION B
NTS 40-CG-101

RECORD DRAWINGS

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DR	JT ASHLEY								
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

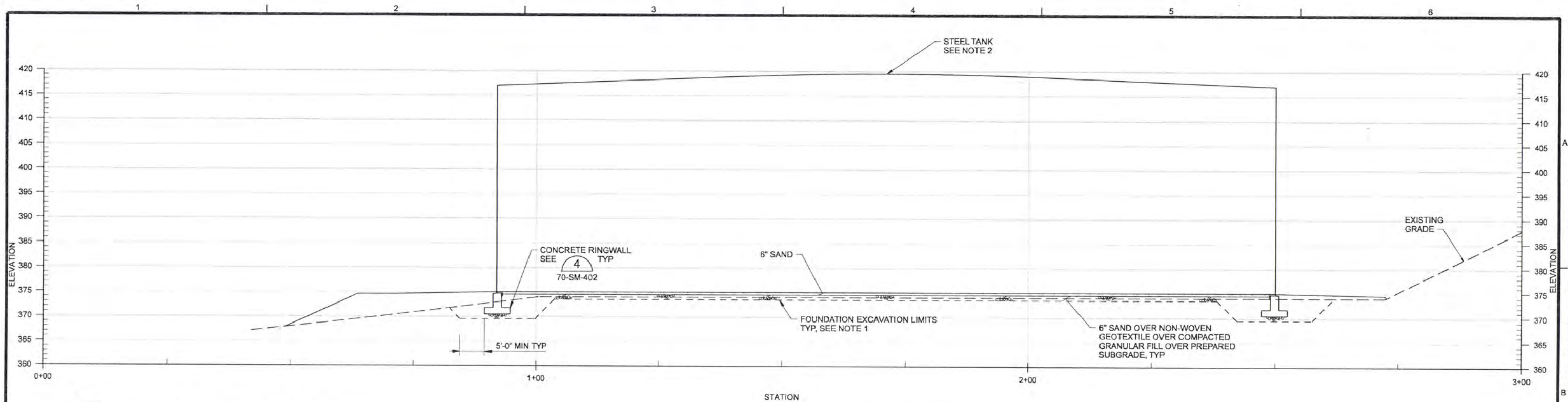
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

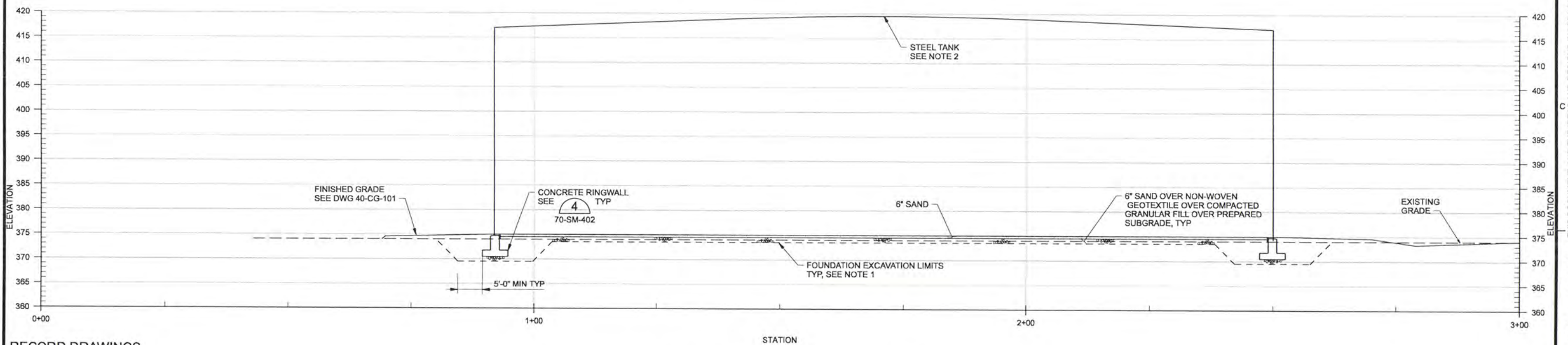
WTP SITE DEVELOPMENT
CIVIL
CONCRETE RESERVOIR SECTIONS

SHEET	134
DWG	40-CG-202
DATE	APRIL 2004
PROJ	170368



STEEL RESERVOIR SECTION A
NTS 40-CG-101

- NOTES:
- EXCAVATION SIDE SLOPES ARE SHOWN SOLELY FOR THE PURPOSE OF ILLUSTRATION BACKFILL REQUIREMENTS. BY SHOWING SUCH SLOPES, THE ENGINEER DOES NOT INTEND TO IMPLY ANY PARTICULAR SLOPE IS TO BE USED OR WOULD BE STABLE. THE CONTRACTOR IS RESPONSIBLE FOR SELECTING AND MAINTAINING SAFE TEMPORARY EXCAVATION SLOPES.
 - SEE DRAWING 70-SM-141 FOR ADDITIONAL INFORMATION.
 - BACKFILL AROUND TANK PER SECTION 02315 OF THE SPECIFICATIONS.



STEEL RESERVOIR SECTION B
NTS 40-CG-101

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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DR	JT ASHLEY						
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

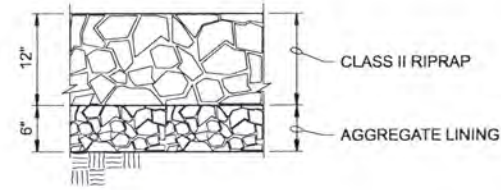
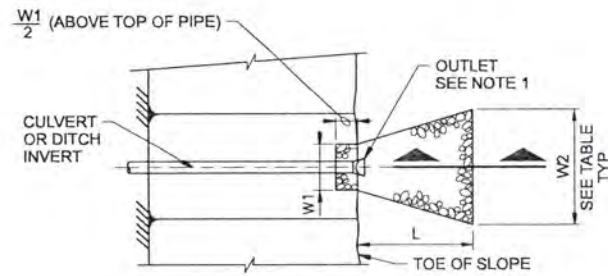
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
CIVIL
STEEL RESERVOIR SECTIONS

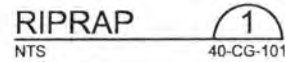
SHEET	135
DWG	40-CG-203
DATE	APRIL 2004
PROJ	170368



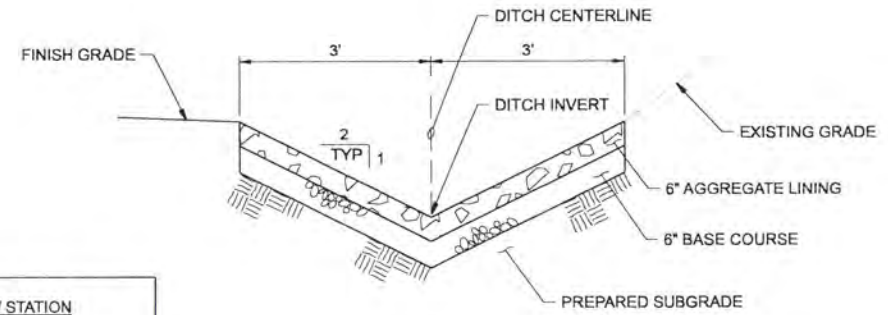
SECTION

NOTE:
BEVEL END OF PIPE TO MATCH SLOPE.

LOCATION/ CULVERT NO.	DIAMETER	RIPRAP		
		W1	W2	L
DITCH OUTLETS	VARIES	6'	10'	12'
SD OUTLET	15"	4'	16'	18'
SD OUTLET	12"	4'	6'	10'
UD OUTLET	8"	3'	6'	10'
OVERFLOW OUTLET	30"	8'	20'	22'



LOCATION / STATION
WTP ACCESS ROAD 0+00 TO 6+13
WTP SITE DITCHES



AGGREGATE LINED DITCH 2
NTS 40-CG-101
40-CG-201
40-CR-101
40-CR-201

RECORD DRAWINGS

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DR	JT ASHLEY						
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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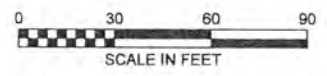
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
 CIVIL
 GRADING DETAILS

SHEET	136
DWG	40-CG-401
DATE	APRIL 2004
PROJ	170368

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EXISTING QUARRY SITE

FUTURE FINISHED WATER RESERVOIR

FINISHED WATER RESERVOIR, SEE NOTE 4

FILTRATION BUILDING

BACKWASH SETTLING BASINS
SEE DWG 60-C-101

- NOTES:**
1. NECESSARY FITTINGS ARE NOT SHOWN FOR CLARITY. PROVIDE ALL FITTINGS REQUIRED TO MAKE CONNECTIONS AND ACHIEVE GRADES, INVERTS, AND SLOPES SHOWN.
 2. SEE ADDITIONAL NOTES ON DWG 01-G-07.
 3. PROVIDE A MINIMUM 3' OF COVER OVER SANITARY SEWER LINE.
 4. YARD PIPING AND UNDERDRAIN SHOWN IS FOR PRESTRESSED CONCRETE TANK ONLY. OMIT UNDERDRAINS AND ADJUST YARD PIPING ACCORDINGLY, IF STEEL IS USED. SEE DRAWINGS 70-SM-141 AND 75-SM-141.
 5. CONTRACTOR TO PERFORM TRENCHING AND BACKFILLING OF NATURAL GAS LINE. ALL GAS LINE WORK SHALL COMPLY AND BE COORDINATED WITH NW NATURAL GAS (541)926-4253, EXTENSION 8248.
 6. FOR UNDERDRAINS AROUND STRUCTURES, SEE STRUCTURAL DRAWINGS.

RECORD DRAWINGS

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DR	JT ASHLEY				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

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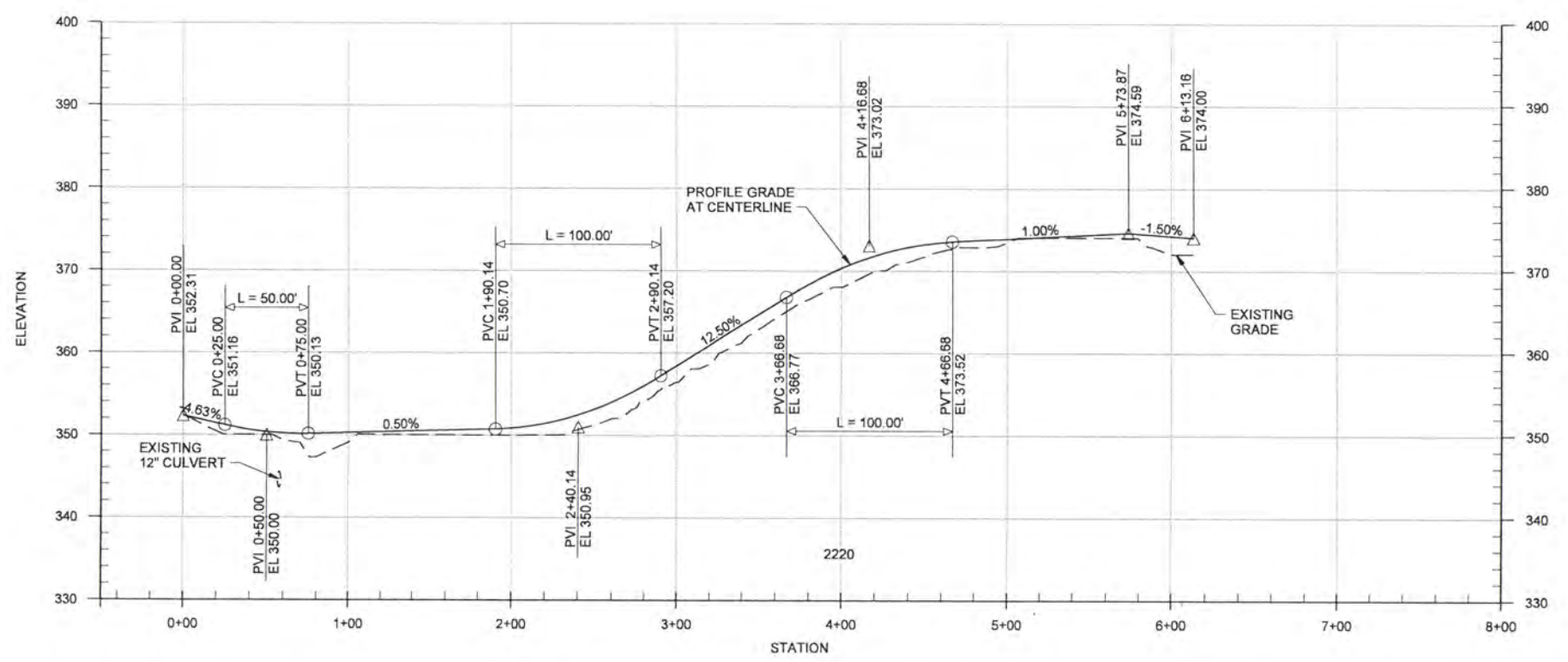
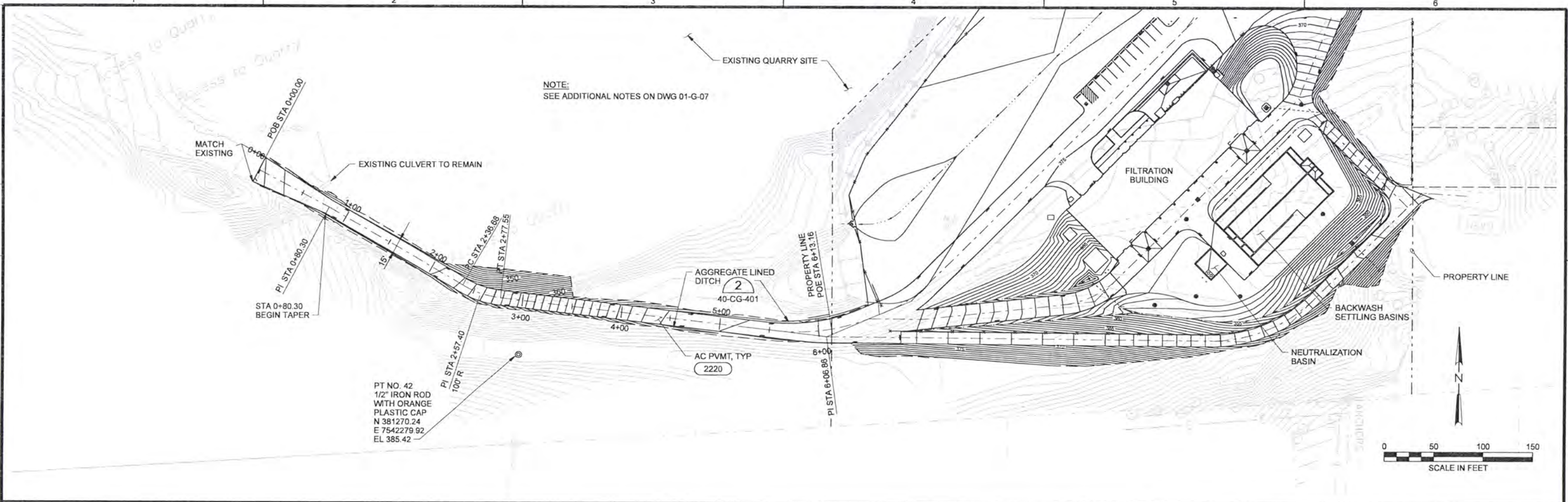


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
 CIVIL
 YARD PIPING PLAN

SHEET	137
DWG	40-CY-101
DATE	APRIL 2004
PROJ	170368

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COORDINATE TABLE			
DESCRIPTION	STA	NORTHING	EASTING
POB	0+00.00	N 381456.18	E 7542018.40
PI	0+80.30	N 381418.58	E 7542087.35
PI	2+57.40	N 381329.82	E 7542240.61
PI	6+06.86	N 381289.11	E 7542589.45

RECORD DRAWINGS

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DSGN	JT ASHLEY				
DR	LG McCALL				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	REVISION	BY

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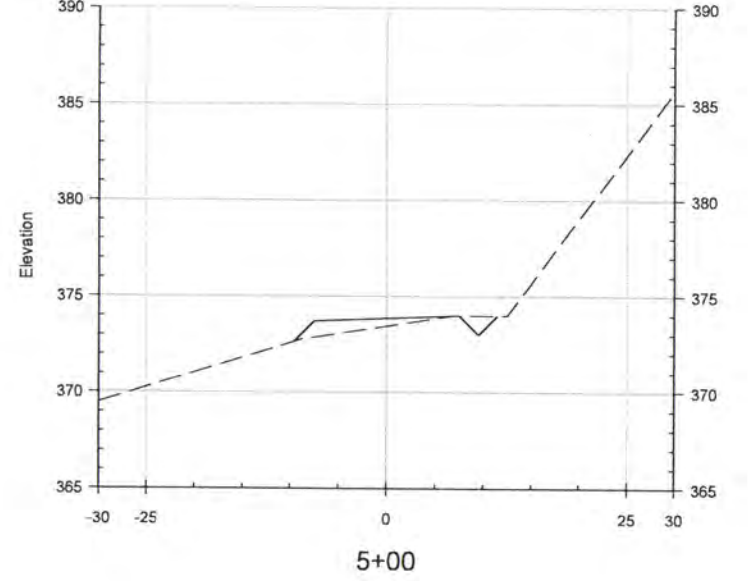
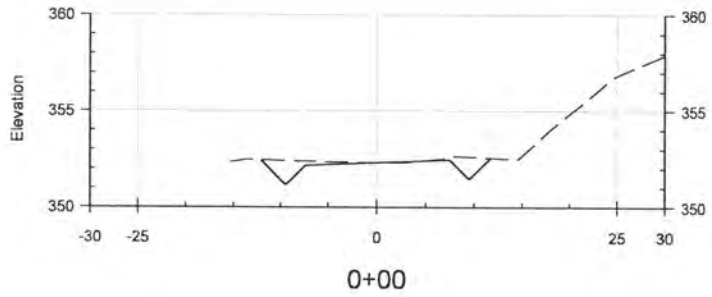
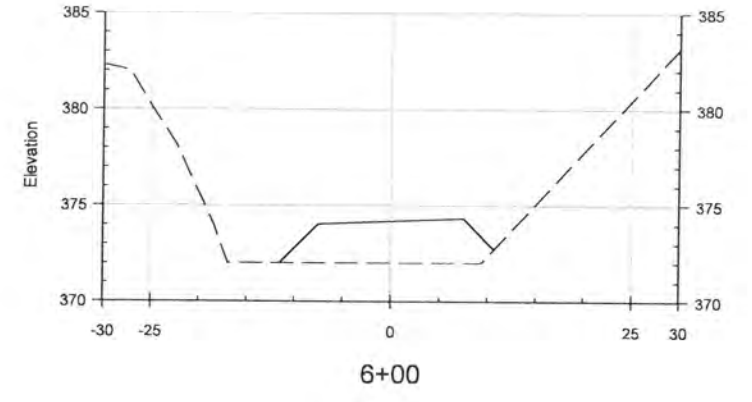
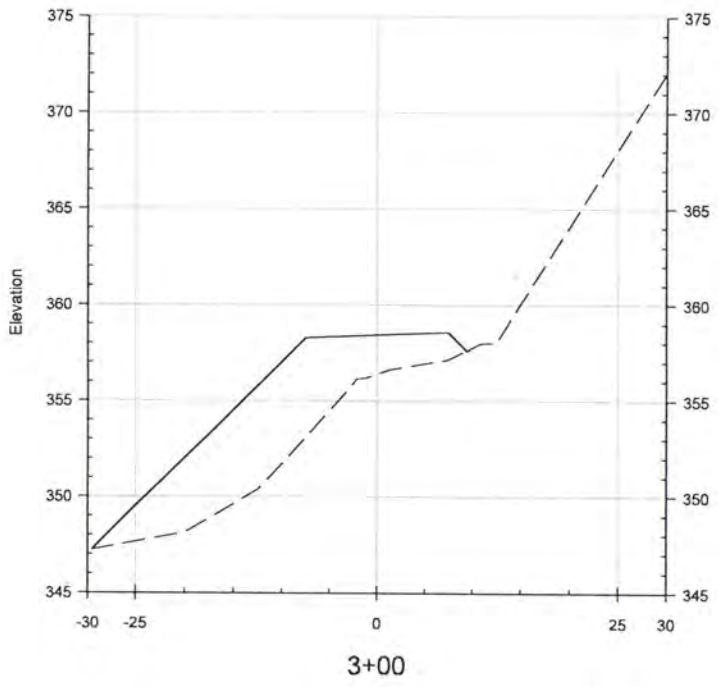
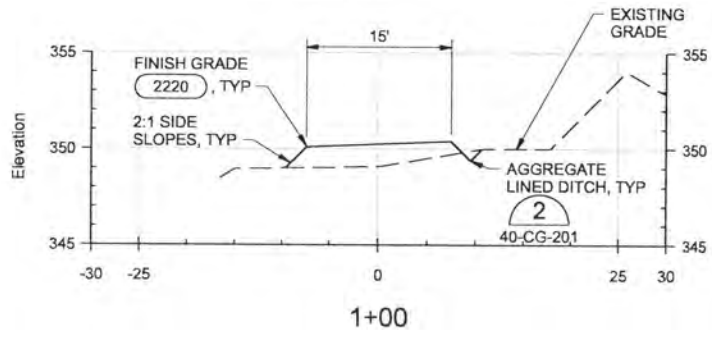
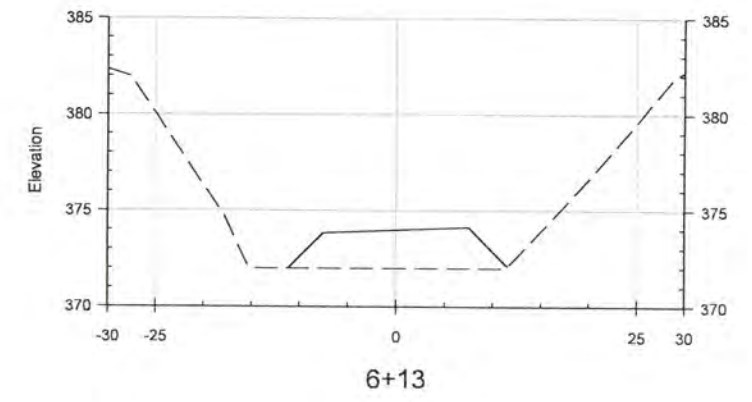
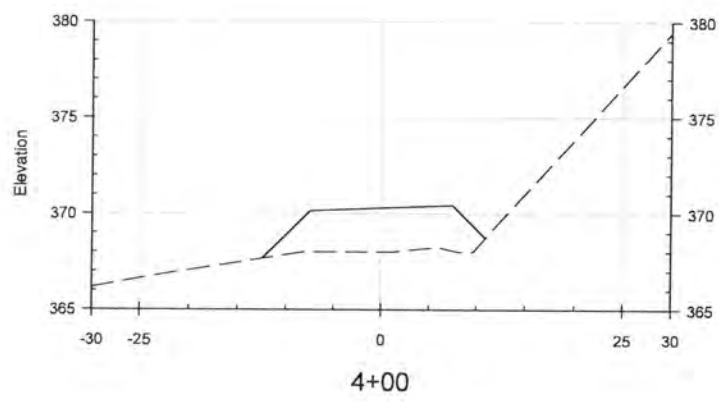
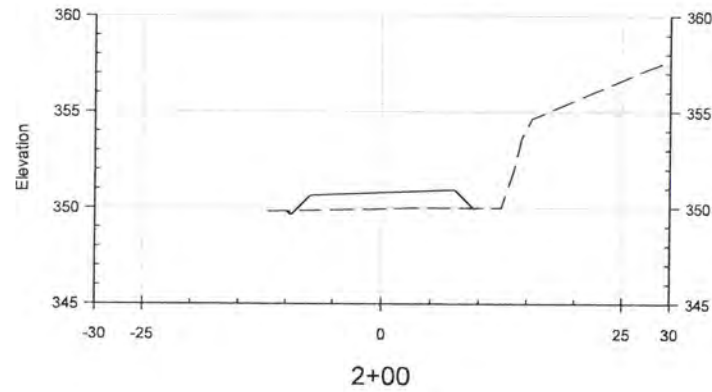


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
 CIVIL
 ROAD PLAN AND PROFILE

SHEET	138
DWG	40-CR-101
DATE	APRIL 2004
PROJ	170368

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DSGN	JT ASHLEY						
DR	LG McCALL						
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
 CIVIL ROAD SECTIONS

SHEET	139
DWG	40-CR-201
DATE	APRIL 2004
PROJ	170368

ACCESS ROAD CROSS SECTIONS

HORIZ: 1"=40'
 VERT: 1"=20'

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- NOTES:**
1. SEE NOTES ON DWGS 40-C-101, 40-CG-101, AND 40-CY-101.
 2. SEE ADDITIONAL NOTES ON DWG 01-G-07
 3. FOR CATCH BASIN, SEE 414 AND 415
 4. 4" FLG D.I. SADDLE OUTLET W/ 4" V504 FLG B.V., SEE 502

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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USGN	JT ASHLEY				
DR	JT ASHLEY				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE			BY	APVD
NO.	DATE		REVISION		

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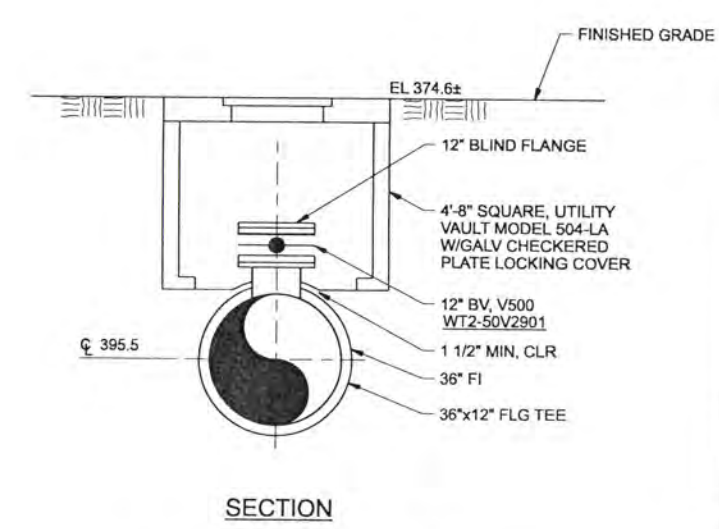
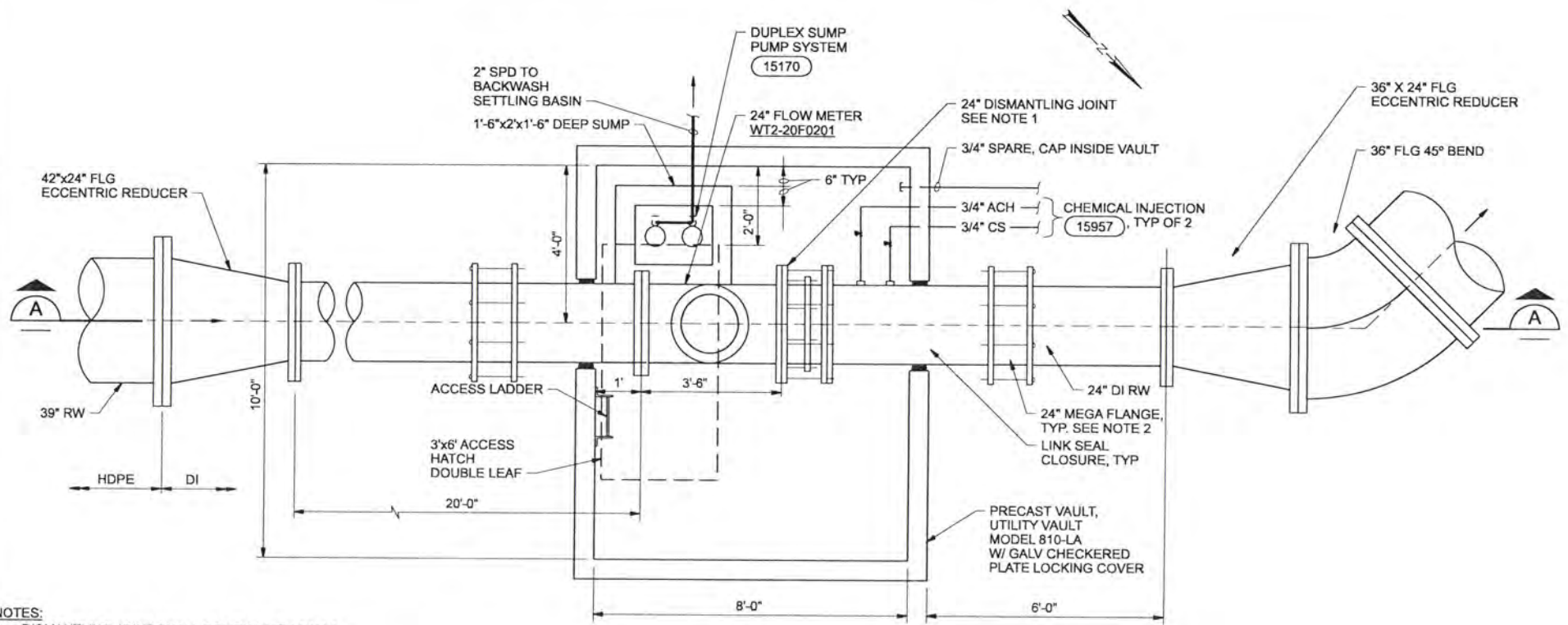
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
 CIVIL SITE DETAILS

SHEET	140
DWG	40-C-401
DATE	APRIL 2004
PROJ	170368

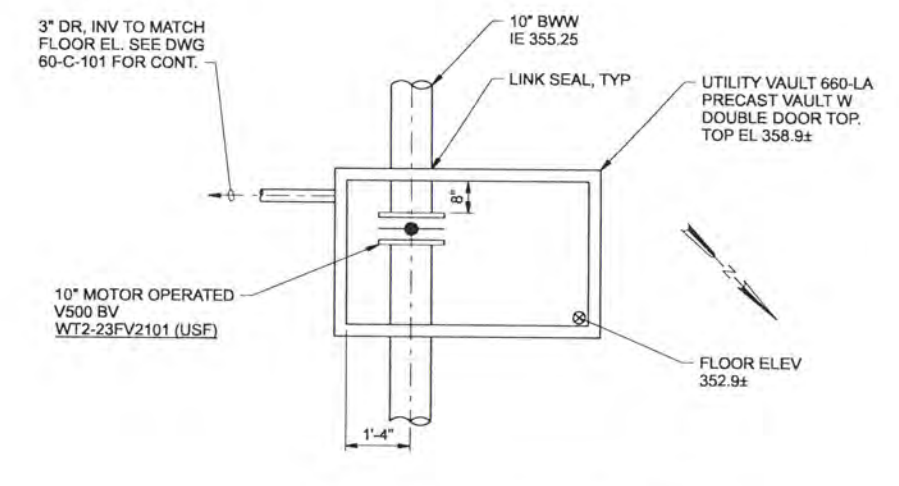
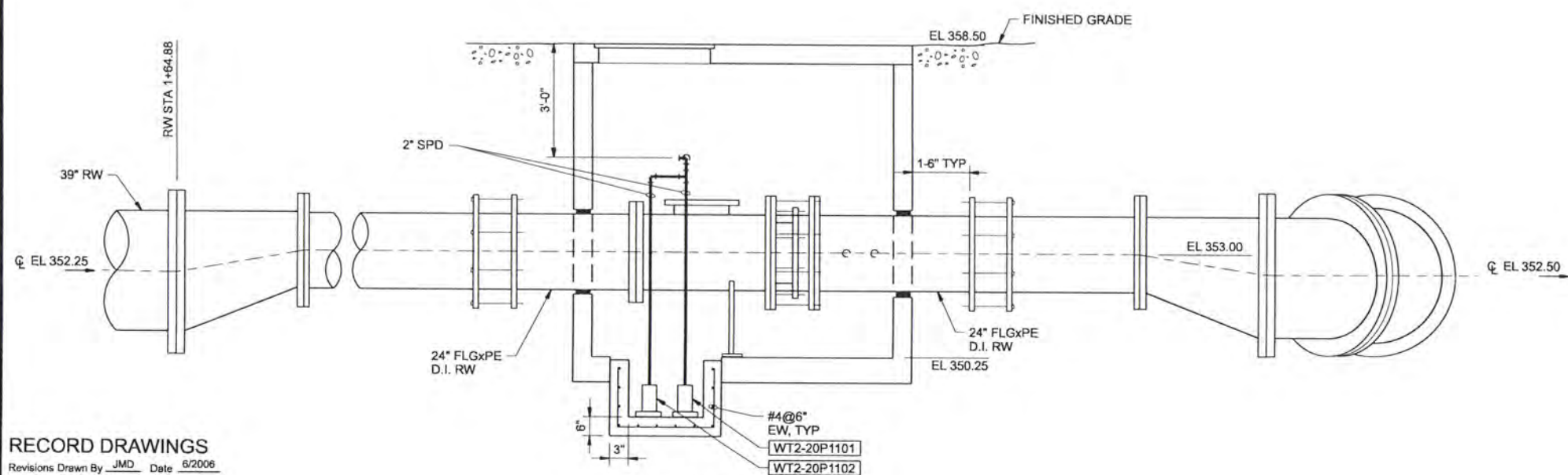
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BYPASS VAULT 2
1/2"=1'-0" 40-CY-101

- NOTES:**
1. DISMANTLING JOINT SHALL COMPLY WITH AWWA C219 AND BE MFG'D BY VIKING JOHNSON OR EQUAL.
 2. 24" SERIES 2100 MEGAFLANGE RESTRAINED FLANGE ADAPTOR BY EBAA IRON.

RAW WATER FLOW METER VAULT 1
1/2"=1'-0" 40-CY-101
30-RW-301
60-C-101



10" BWW VALVE VAULT 3
1/2"=1'-0" 40-CY-101
60-C-101

RECORD DRAWINGS
Revisions Drawn By JMD Date 6/2006

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DSGN	JT ASHLEY						
DR	LG McCALL						
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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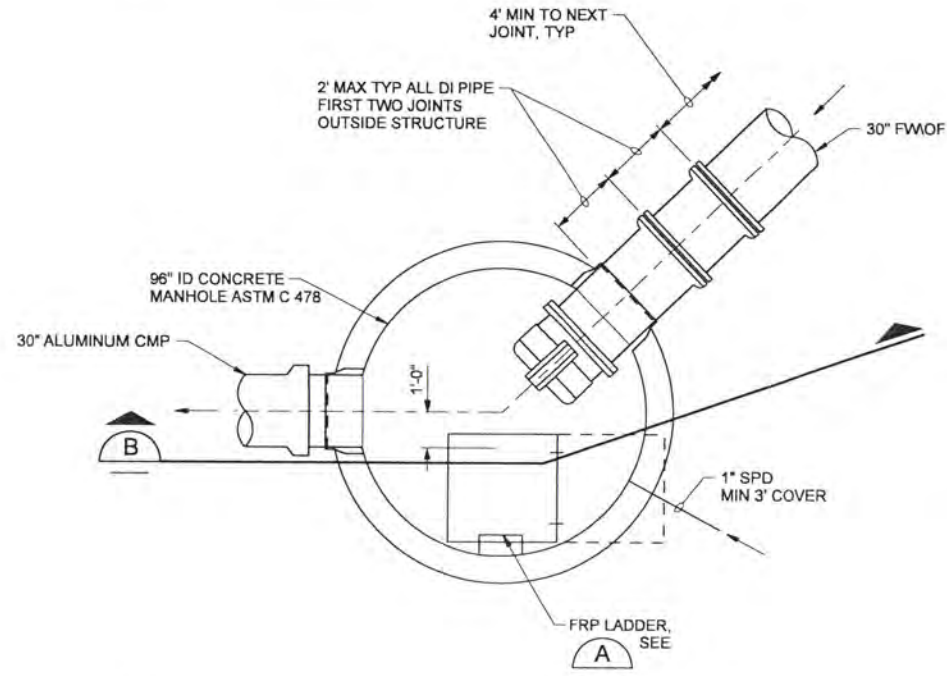


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
RW FLOW METER VAULT,
BYPASS, AND BWW VAULT DETAILS

SHEET	141
DWG	40-C-402
DATE	APRIL 2004
PROJ	170368

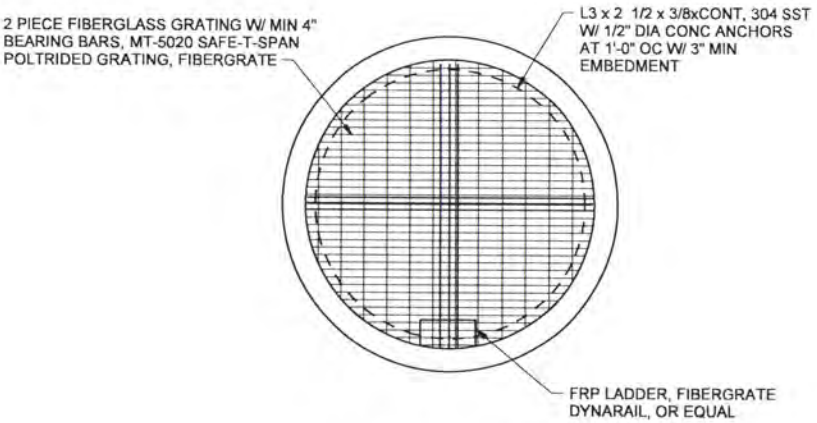
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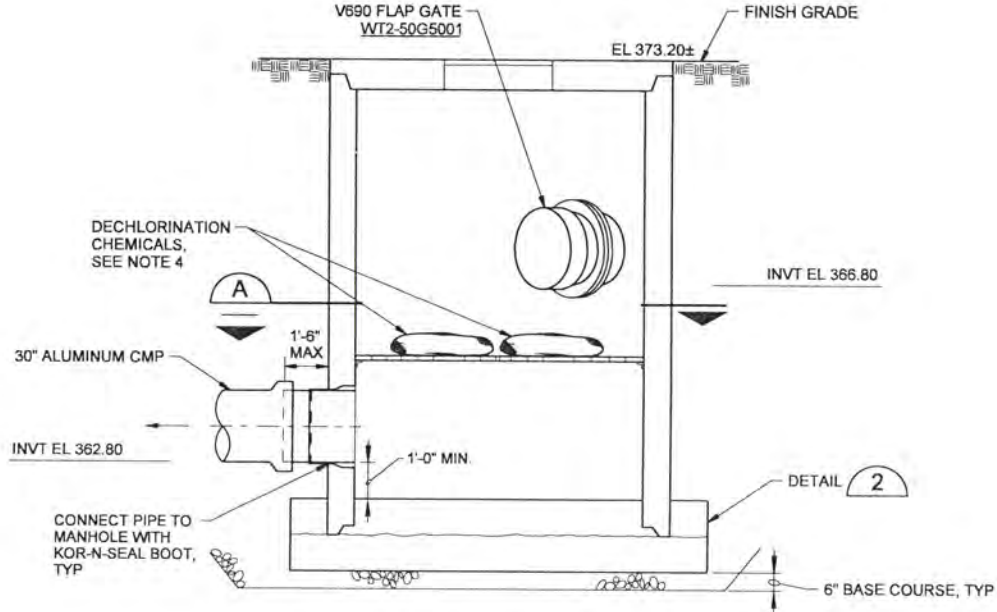
NOTES:

1. BLOCK OUTS SHALL BE FORMED BY MANHOLE MANUFACTURER.
2. PLACE LADDER ON UNOBSTRUCTED SIDE OF MANHOLE, 18" MAX. FROM BOTTOM OF MANHOLE AND 6" MAX. BELOW BOTTOM OF FRAME.
3. POSITION GRATING AND FRAME BETWEEN NEAREST LADDER RINGS.
4. REFER TO DISINFECTION OF WATER SYSTEMS SPECIFICATIONS FOR DISINFECTION AND DECHLORINATION REQUIREMENTS.
5. DESIGN MANHOLE AND COVER FOR HS20 TRAFFIC LOADING.

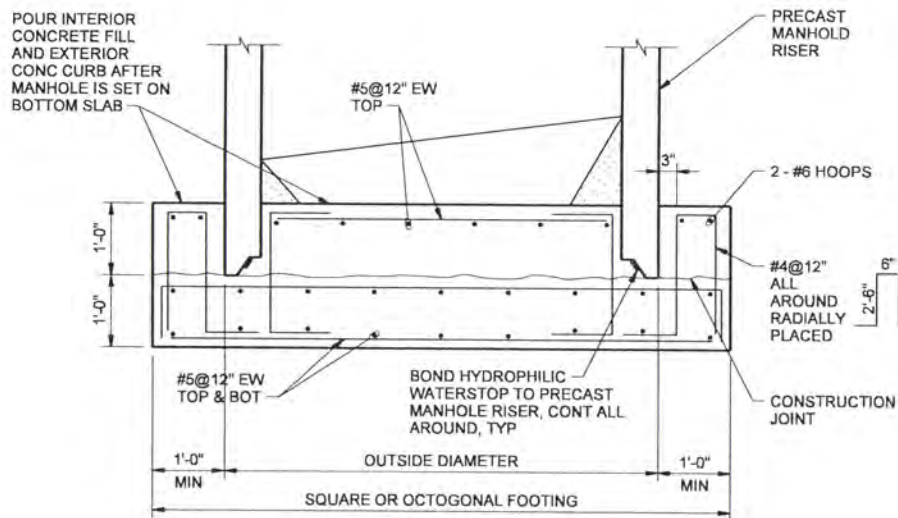
DECHLORINATION MANHOLE 1
NTS 40-CY-101



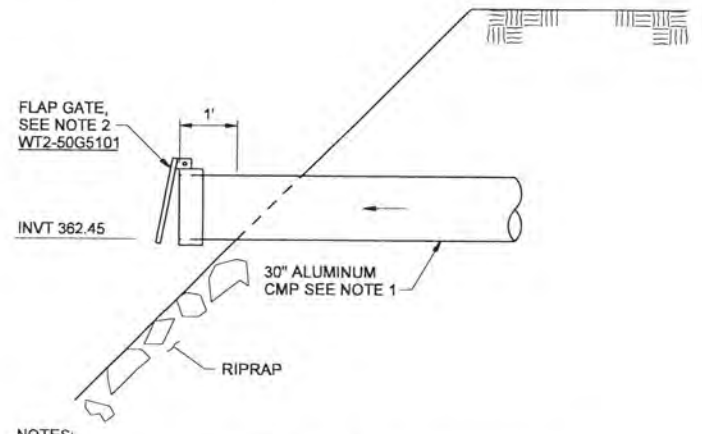
SECTION A



SECTION B
NTS



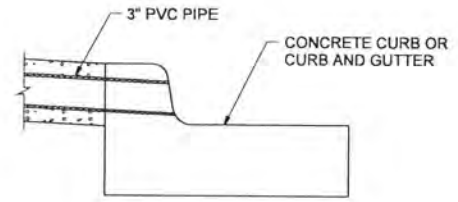
DETAIL 2
3/4"=1'-0"



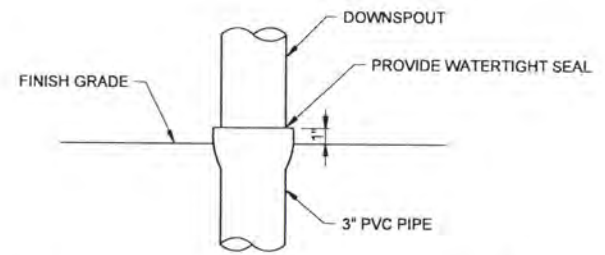
NOTES:

1. 30" ALUMINUM CORRUGATED METAL PIPE MEETING REQUIREMENTS OF AASHTO M196M, TYPE 1, 14 GAUGE MINIMUM.
2. ALUMINUM FLAP GATE FOR MOUNTING ON 30" ALUMINUM CMP. WATERMAN AF-41 OR EQUAL.

DETAIL 3
NTS 40-CY-101



CURB ROOFDRAIN PIPE 4
NTS 40-C-401



DOWNSPOUT CONNECTION 5
NTS 40-C-401 60-C-101

RECORD DRAWINGS

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DR	LG McCALL						
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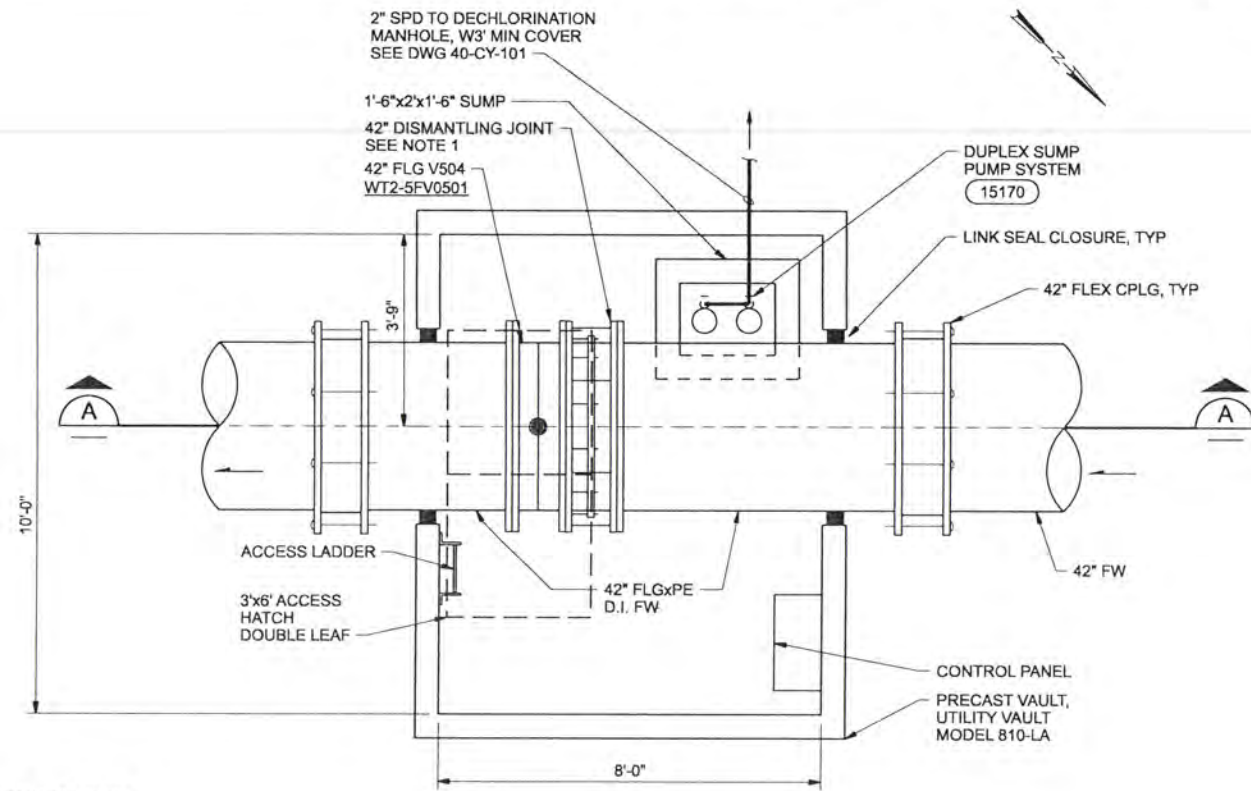


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
 CIVIL
 SITE DETAILS

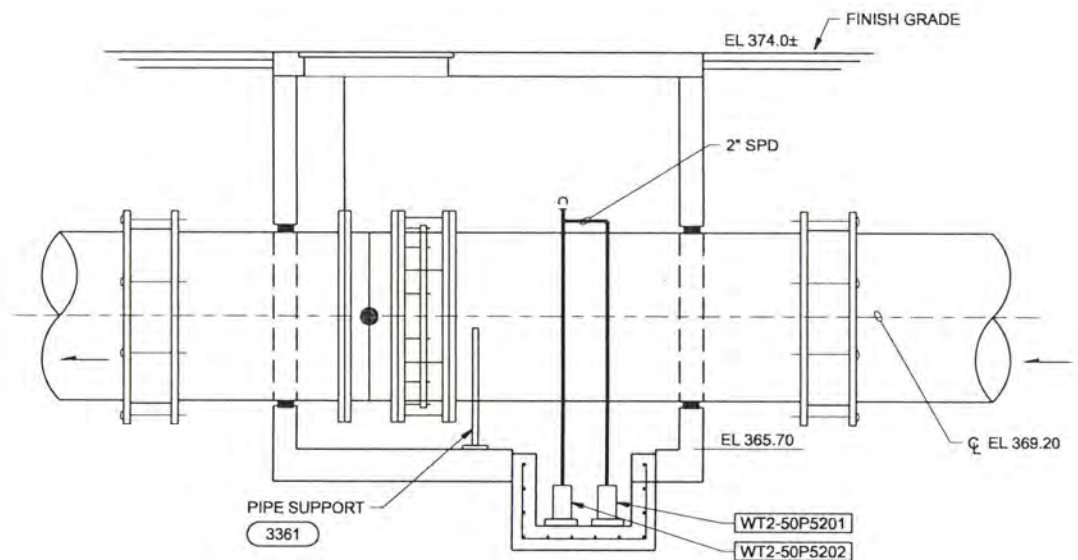
SHEET	142
DWG	40-C-403
DATE	APRIL 2004
PROJ	170368

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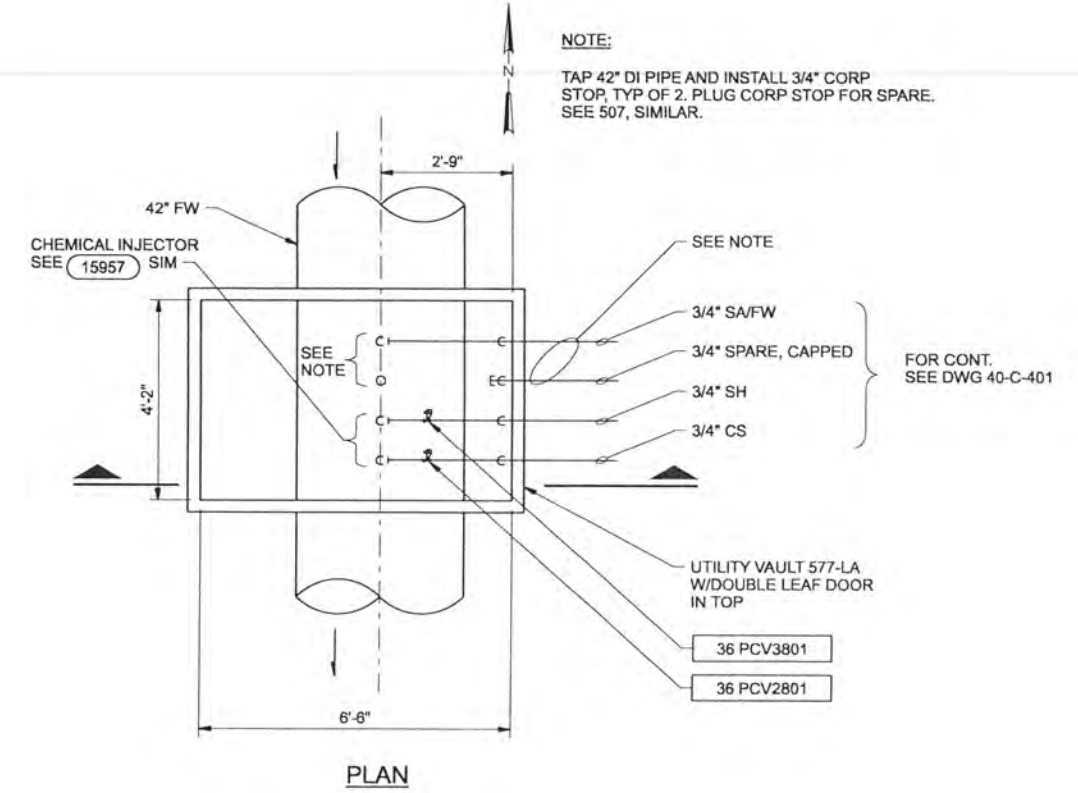


- NOTES:
1. DISMANTLING JOINT SHALL COMPLY WITH AWWA C219 AND BE MFG'D BY VIKING JOHNSON OR EQUAL.
 2. 24" SERIES 2100 MEGAFLANGE RESTRAINED FLANGE ADAPTOR BY EBAA IRON.

FINISHED WATER VALVE VAULT 1
1/2"=1'-0" 40-CY-101



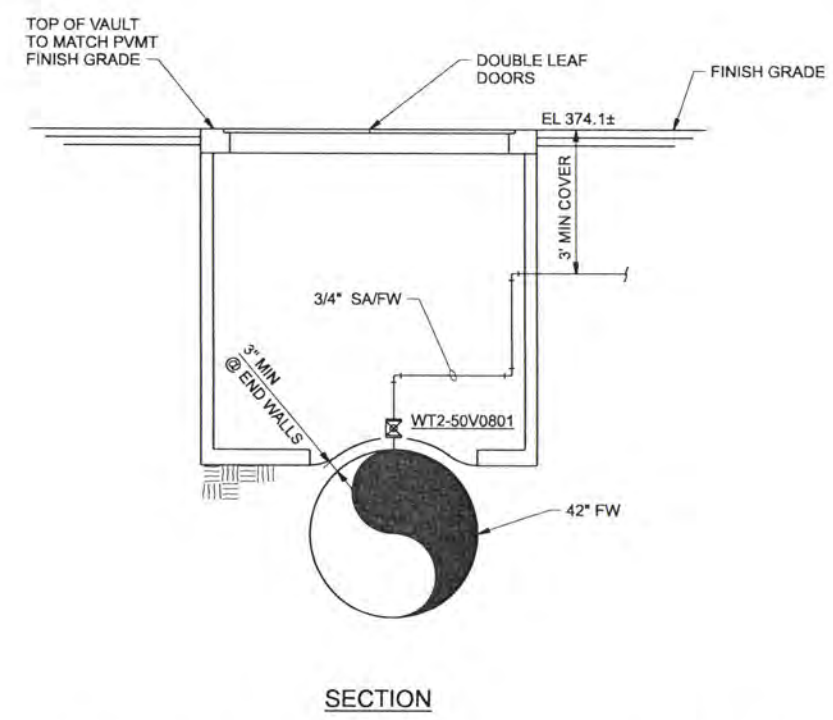
SECTION A
1/2"=1'-0"



NOTE:
TAP 42" DI PIPE AND INSTALL 3/4" CORP STOP, TYP OF 2. PLUG CORP STOP FOR SPARE. SEE 507, SIMILAR.

FOR CONT. SEE DWG 40-C-401

PLAN



SECTION

CHEMICAL INJECTION/SAMPLE VAULT 2
1/2"=1'-0" 40-C-401

RECORD DRAWINGS

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DR	LG McCALL				
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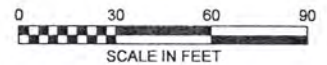
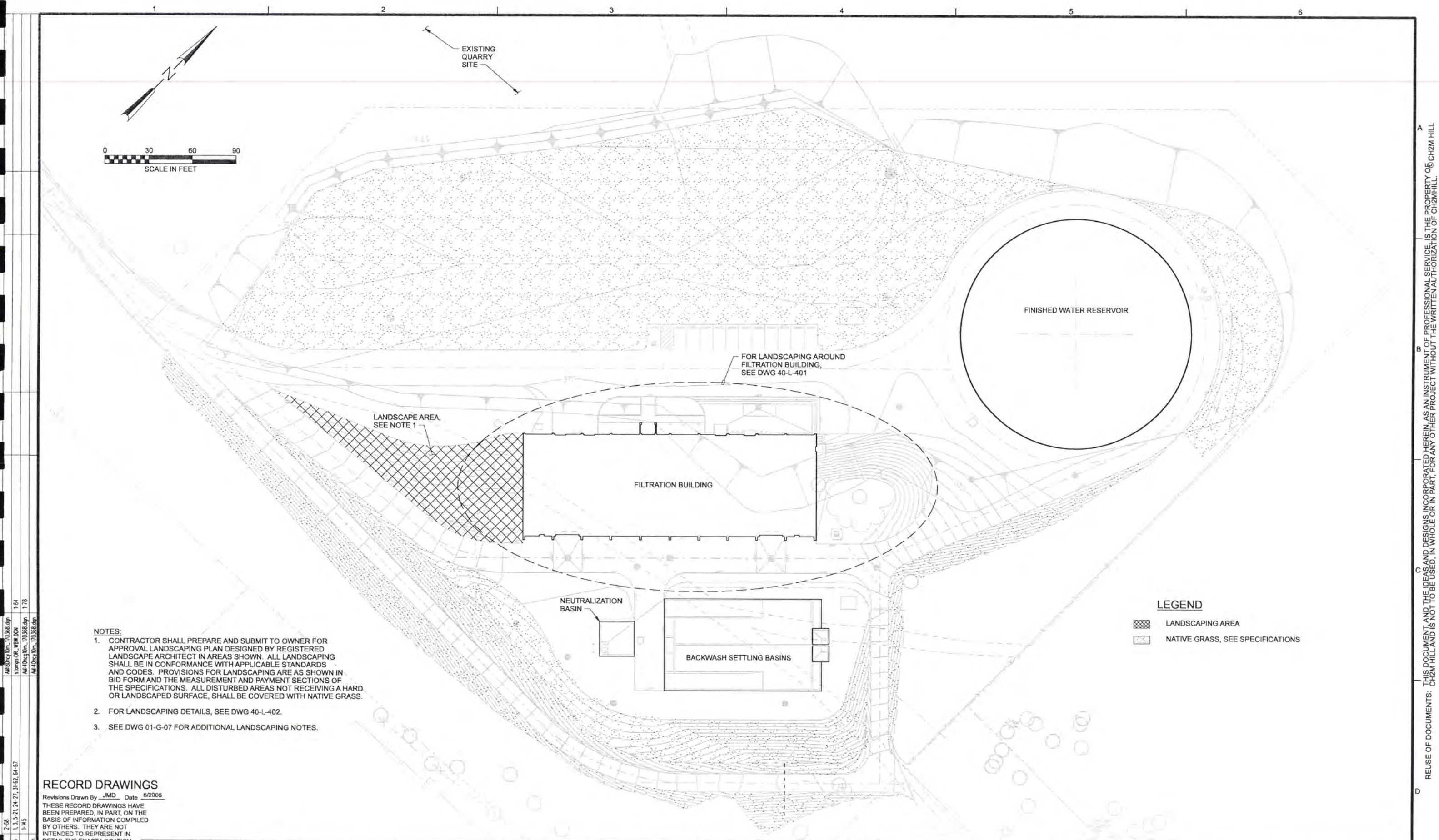


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
FW VALVE VAULT AND CHEMICAL
INJECTION/SAMPLE VAULT
DETAILS

SHEET	143
DWG	40-C-404
DATE	APRIL 2004
PROJ	170368

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EXISTING QUARRY SITE

FINISHED WATER RESERVOIR

FOR LANDSCAPING AROUND FILTRATION BUILDING, SEE DWG 40-L-401

LANDSCAPE AREA, SEE NOTE 1

FILTRATION BUILDING

NEUTRALIZATION BASIN

BACKWASH SETTLING BASINS

LEGEND

- LANDSCAPING AREA
- NATIVE GRASS, SEE SPECIFICATIONS

NOTES:

1. CONTRACTOR SHALL PREPARE AND SUBMIT TO OWNER FOR APPROVAL LANDSCAPING PLAN DESIGNED BY REGISTERED LANDSCAPE ARCHITECT IN AREAS SHOWN. ALL LANDSCAPING SHALL BE IN CONFORMANCE WITH APPLICABLE STANDARDS AND CODES. PROVISIONS FOR LANDSCAPING ARE AS SHOWN IN BID FORM AND THE MEASUREMENT AND PAYMENT SECTIONS OF THE SPECIFICATIONS. ALL DISTURBED AREAS NOT RECEIVING A HARD OR LANDSCAPED SURFACE, SHALL BE COVERED WITH NATIVE GRASS.
2. FOR LANDSCAPING DETAILS, SEE DWG 40-L-402.
3. SEE DWG 01-G-07 FOR ADDITIONAL LANDSCAPING NOTES.

RECORD DRAWINGS

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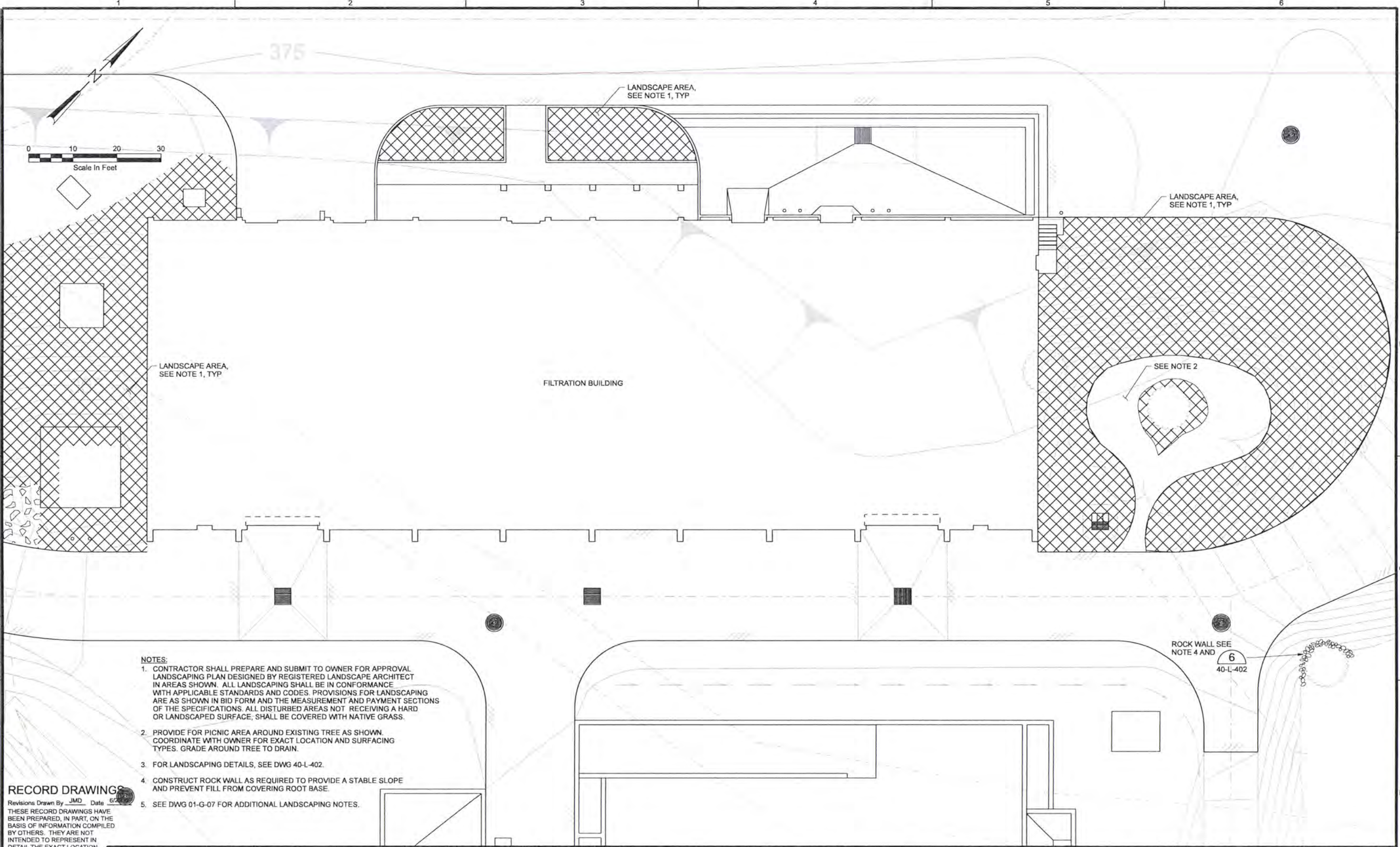
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

SITE DEVELOPMENT
 LANDSCAPING PLAN

SHEET	144
DWG	40-L-101
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
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 2. PROVIDE FOR PICNIC AREA AROUND EXISTING TREE AS SHOWN. COORDINATE WITH OWNER FOR EXACT LOCATION AND SURFACING TYPES. GRADE AROUND TREE TO DRAIN.
 3. FOR LANDSCAPING DETAILS, SEE DWG 40-L-402.
 4. CONSTRUCT ROCK WALL AS REQUIRED TO PROVIDE A STABLE SLOPE AND PREVENT FILL FROM COVERING ROOT BASE.
 5. SEE DWG 01-G-07 FOR ADDITIONAL LANDSCAPING NOTES.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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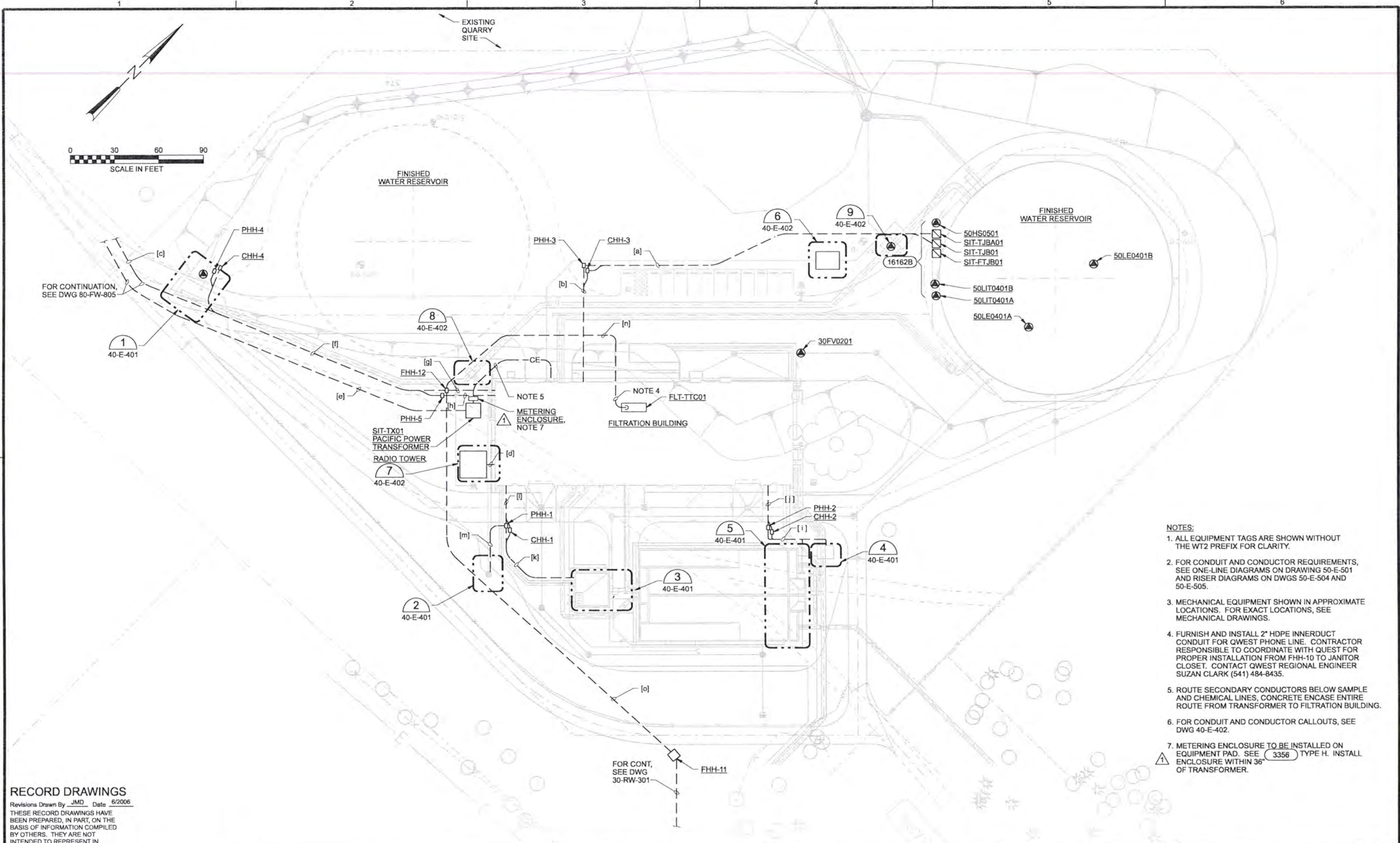
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

SITE DEVELOPMENT
 FILTRATION BUILDING
 LANDSCAPING PLAN

SHEET	145
DWG	40-L-401
DATE	APRIL 2004
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- NOTES:**
- ALL EQUIPMENT TAGS ARE SHOWN WITHOUT THE WT2 PREFIX FOR CLARITY.
 - FOR CONDUIT AND CONDUCTOR REQUIREMENTS, SEE ONE-LINE DIAGRAMS ON DRAWING 50-E-501 AND RISER DIAGRAMS ON DWGS 50-E-504 AND 50-E-505.
 - MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATIONS. FOR EXACT LOCATIONS, SEE MECHANICAL DRAWINGS.
 - FURNISH AND INSTALL 2" HDPE INNERDUCT CONDUIT FOR QWEST PHONE LINE. CONTRACTOR RESPONSIBLE TO COORDINATE WITH QWEST FOR PROPER INSTALLATION FROM FHH-10 TO JANITOR CLOSET. CONTACT QWEST REGIONAL ENGINEER SUZAN CLARK (541) 484-8435.
 - ROUTE SECONDARY CONDUCTORS BELOW SAMPLE AND CHEMICAL LINES, CONCRETE ENCASE ENTIRE ROUTE FROM TRANSFORMER TO FILTRATION BUILDING.
 - FOR CONDUIT AND CONDUCTOR CALLOUTS, SEE DWG 40-E-402.
 - METERING ENCLOSURE TO BE INSTALLED ON EQUIPMENT PAD. SEE 3356 TYPE H. INSTALL ENCLOSURE WITHIN 36" OF TRANSFORMER.

RECORD DRAWINGS
 Revisions Drawn By JMD Date 6/2006
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DR	MS MCNEELY									
CHK	JF TURNER									
APVD	CW MASSIE									
		NO.	DATE	REVISION	BY	APVD				
					JMD	RCF				
					MSM	RGC				

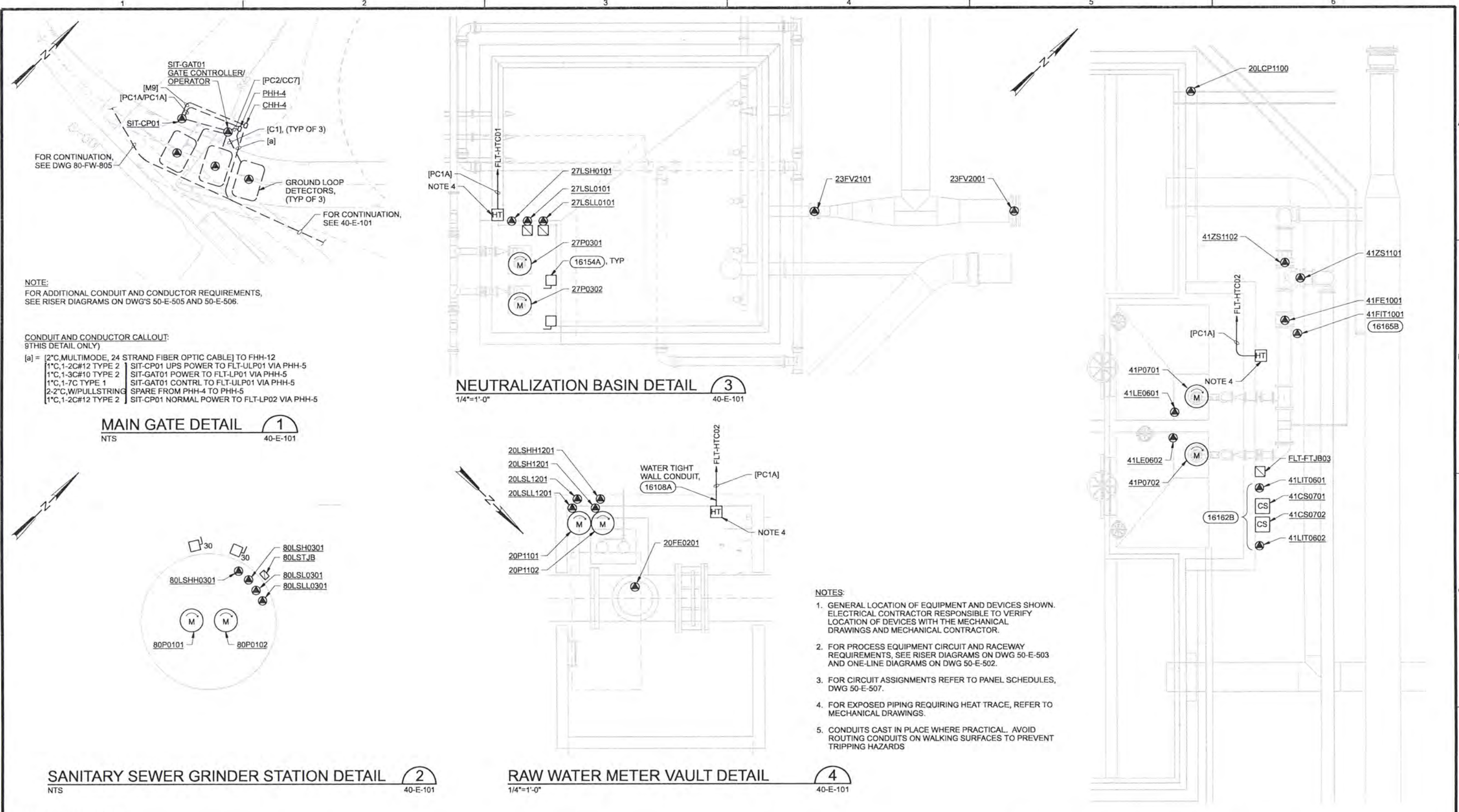
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
ELECTRICAL SITE PLAN

SHEET	147
DWG	40-E-101
DATE	APRIL 2004
PROJ	170368

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NOTE:
FOR ADDITIONAL CONDUIT AND CONDUCTOR REQUIREMENTS, SEE RISER DIAGRAMS ON DWG'S 50-E-505 AND 50-E-506.

CONDUIT AND CONDUCTOR CALLOUT:
(THIS DETAIL ONLY)

- [a] = [2" C, MULTIMODE, 24 STRAND FIBER OPTIC CABLE] TO FHH-12
 1" C, 1-2C#12 TYPE 2 SIT-CP01 UPS POWER TO FLT-ULP01 VIA PHH-5
 1" C, 1-3C#10 TYPE 2 SIT-GAT01 POWER TO FLT-LP01 VIA PHH-5
 1" C, 1-7C TYPE 1 SIT-GAT01 CONTRL TO FLT-ULP01 VIA PHH-5
 2-2" C, W/PULL STRING SPARE FROM PHH-4 TO PHH-5
 1" C, 1-2C#12 TYPE 2 SIT-CP01 NORMAL POWER TO FLT-LP02 VIA PHH-5

MAIN GATE DETAIL 1
NTS 40-E-101

NEUTRALIZATION BASIN DETAIL 3
1/4"=1'-0" 40-E-101

SANITARY SEWER GRINDER STATION DETAIL 2
NTS 40-E-101

RAW WATER METER VAULT DETAIL 4
1/4"=1'-0" 40-E-101

BACKWASH SETTLING BASIN DETAIL 5
NTS 40-E-101

- NOTES:**
1. GENERAL LOCATION OF EQUIPMENT AND DEVICES SHOWN. ELECTRICAL CONTRACTOR RESPONSIBLE TO VERIFY LOCATION OF DEVICES WITH THE MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR.
 2. FOR PROCESS EQUIPMENT CIRCUIT AND RACEWAY REQUIREMENTS, SEE RISER DIAGRAMS ON DWG 50-E-503 AND ONE-LINE DIAGRAMS ON DWG 50-E-502.
 3. FOR CIRCUIT ASSIGNMENTS REFER TO PANEL SCHEDULES, DWG 50-E-507.
 4. FOR EXPOSED PIPING REQUIRING HEAT TRACE, REFER TO MECHANICAL DRAWINGS.
 5. CONDUITS CAST IN PLACE WHERE PRACTICAL. AVOID ROUTING CONDUITS ON WALKING SURFACES TO PREVENT TRIPPING HAZARDS.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DR	MS MCNEELY								
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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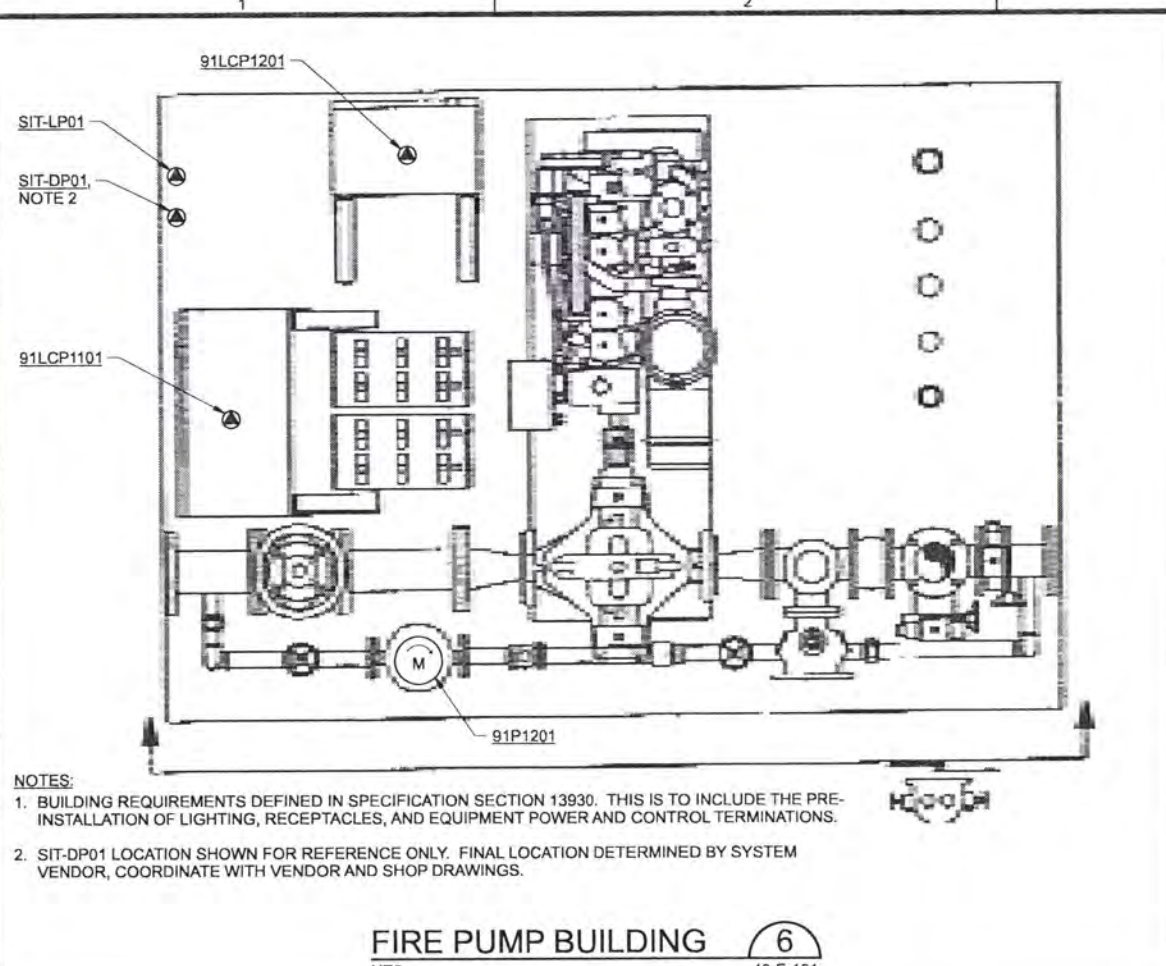


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WTP SITE DEVELOPMENT
 ELECTRICAL
 SITE DETAILS

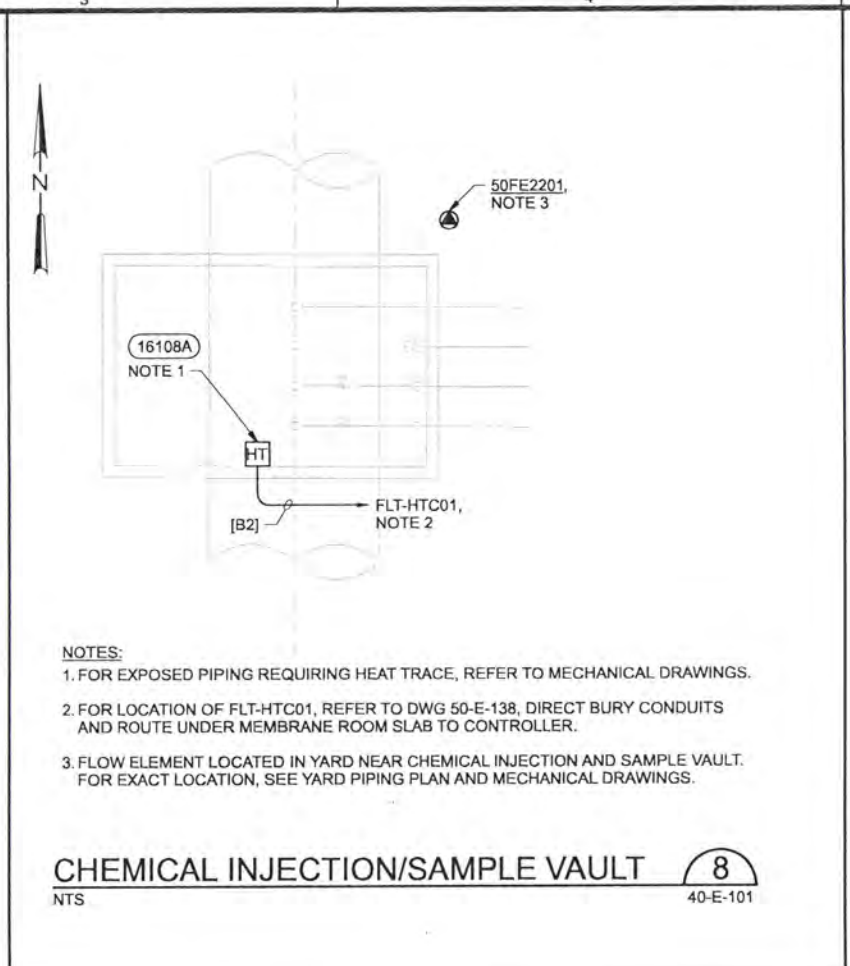
SHEET	148
DWG	40-E-401
DATE	APRIL 2004
PROJ	170368

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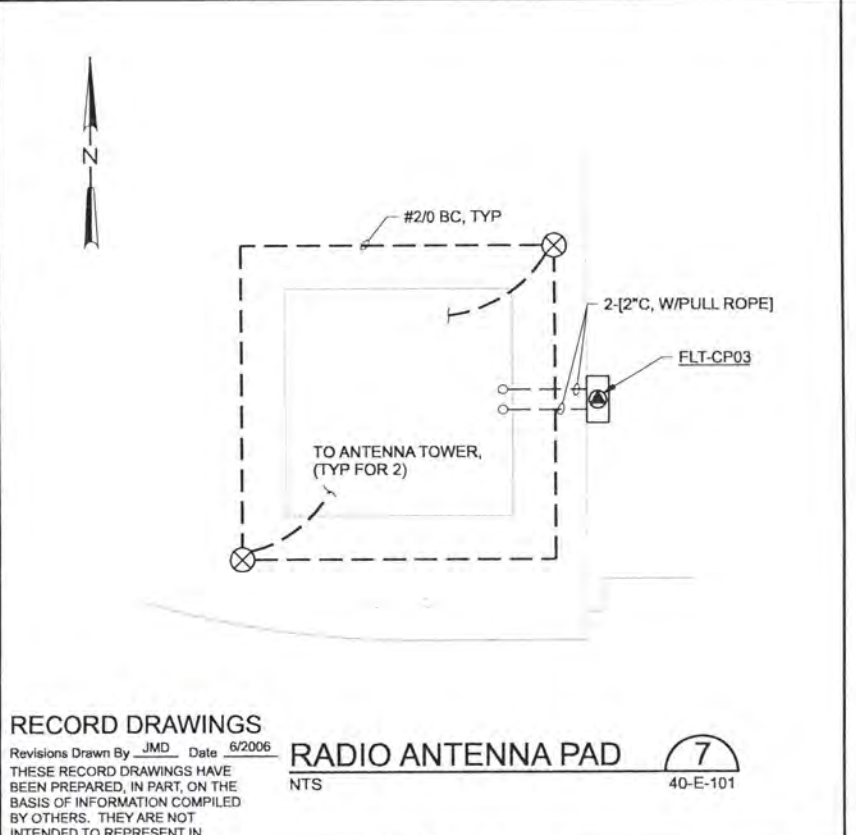
NOTES:
 1. BUILDING REQUIREMENTS DEFINED IN SPECIFICATION SECTION 13930. THIS IS TO INCLUDE THE PRE-INSTALLATION OF LIGHTING, RECEPTACLES, AND EQUIPMENT POWER AND CONTROL TERMINATIONS.
 2. SIT-DP01 LOCATION SHOWN FOR REFERENCE ONLY. FINAL LOCATION DETERMINED BY SYSTEM VENDOR, COORDINATE WITH VENDOR AND SHOP DRAWINGS.

FIRE PUMP BUILDING 6
 NTS 40-E-101

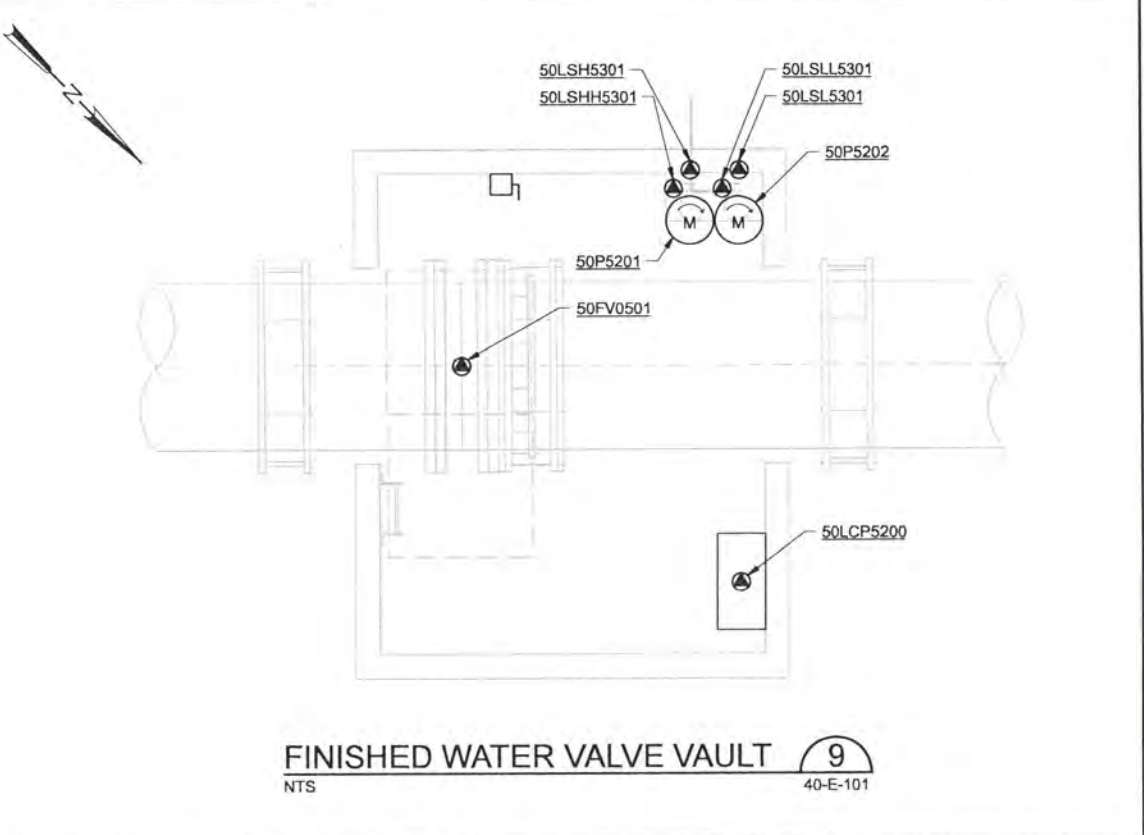


NOTES:
 1. FOR EXPOSED PIPING REQUIRING HEAT TRACE, REFER TO MECHANICAL DRAWINGS.
 2. FOR LOCATION OF FLT-HTC01, REFER TO DWG 50-E-138, DIRECT BURY CONDUITS AND ROUTE UNDER MEMBRANE ROOM SLAB TO CONTROLLER.
 3. FLOW ELEMENT LOCATED IN YARD NEAR CHEMICAL INJECTION AND SAMPLE VAULT. FOR EXACT LOCATION, SEE YARD PIPING PLAN AND MECHANICAL DRAWINGS.

CHEMICAL INJECTION/SAMPLE VAULT 8
 NTS 40-E-101



RADIO ANTENNA PAD 7
 NTS 40-E-101



FINISHED WATER VALVE VAULT 9
 NTS 40-E-101

CONDUIT AND CONDUCTOR CALLOUTS:

CALLOUT	SERVICE TYPE	CONDUIT	DEVICE	SOURCE	CONDUCTORS
(A)	ELECTRICAL SIGNAL	2"	SIT-LP01	FLT-CP01	1-37C TYPE 1
		2"	SIT-LP01	FLT-CP01	1-37C TYPE 1
		1"	SIT-LP01	FLT-LP10	1-3C #10 TYPE 2
		1"	50LCP5200	FLT-LP11	1-3C #10 TYPE 2
		2-1/2"	SIT-EP01	FLT-EP01	1-3C #10 TYPE 2
		2"	SIT-TUBA01	FLT-CP01	1-89R TYPE 5
(B)	ELECTRICAL SIGNAL	2"	SIT-LP01	FLT-CP01	1-37C TYPE 1
		2"	SIT-LP01	FLT-CP01	1-37C TYPE 1
		1"	SIT-LP01	FLT-LP10	1-3C #10 TYPE 2
		1"	50LCP5200	FLT-LP11	1-3C #10 TYPE 2
		2-1/2"	SIT-EP01	FLT-EP01	1-3C #10 TYPE 2
		2"	PHH-3	FLT-CP01	PULLSTRING
(C)	ELECTRICAL SIGNAL	2"	SIT-TUBA01	FLT-CP01	1-89R TYPE 5
		2"	PHH-3	FLT-CP01	PULLSTRING
		2"	PHH-3	FLT-CP01	PULLSTRING
		2"	SIT-TUBA01	FLT-CP01	1-89R TYPE 5
		2"	PHH-3	FLT-CP01	PULLSTRING
		2"	PHH-3	FLT-CP01	PULLSTRING
(D)	ELECTRICAL SIGNAL	N/A	ANTENNA PAD	FLT-CP01	PULLSTRING
		N/A	ANTENNA PAD	FLT-CP01	PULLSTRING
		2-2"	SIT-TUBA	PAC POWER	PULLROPE
		1"	SIT-CP01	FLT-LP10	1-3C #10 TYPE 2
		1"	SIT-GA101	FLT-CP01	1-7C TYPE 1
		1"	SIT-CP01	FLT-LP02	1-3C #12 TYPE 2
(E)	ELECTRICAL SIGNAL	2-2"	PHH-4	PHH-4	PULLSTRING
		2-2"	PHH-4	PHH-4	PULLSTRING
		2-1/2"	MM-M-CP01	FLT-CP01	2-24 5M STRNDFO CABLE
		2-1/2"	MM-M-CP01	FLT-CP01	2-24 5M STRNDFO CABLE
		2-1/2"	MM-M-CP01	FLT-CP01	PULLSTRING
		2-1/2"	SIT-CP01	FLT-CP01	1-24 MM STRNDFO CABLE
(F)	ELECTRICAL SIGNAL	1"	SIT-CP01	FLT-LP10	1-3C #10 TYPE 2
		1"	SIT-GA101	FLT-LP10	1-3C #10 TYPE 2
		1"	SIT-GA101	FLT-CP01	1-7C TYPE 1
		1"	SIT-CP01	FLT-LP02	1-3C #12 TYPE 2
		2"	PHH-5	FLT-PE02	PULLSTRING
		2"	PHH-5	FLT-CP01	PULLSTRING
(G)	ELECTRICAL SIGNAL	N/A	RM VAULT HT	FLT-HTC02	1-2C #12 TYPE 2
		1-1/2"	RM BASIN HT	FLT-HTC02	1-2C #12 TYPE 2
		1-1/2"	20LCP1100	FLT-LP11	1-3C #10 TYPE 2
		2"	41P0701	FLT-MC01	1-3C #6 TYPE 2, 1-5C TYPE 1
		2"	41P0702	FLT-MC01	1-3C #6 TYPE 2, 1-5C TYPE 1
		1-1/2"	41LUT001	FLT-CP01	1-19C TYPE 1
(H)	ELECTRICAL SIGNAL	1"	FLT-F1003	FLT-LP10	1-3C #12 TYPE 2
		1"	41ZS1101	FLT-CP01	1-5C TYPE 1
		1"	41ZS1102	FLT-CP01	1-5C TYPE 1
		2-2"	PHH-2	FLT-CP01	PULLSTRING
		2-2"	PHH-2	FLT-CP01	PULLSTRING
		1"	20F1001	FLT-TUBA01	1-TYPE 3
(I)	ELECTRICAL SIGNAL	1"	RM VAULT HT	FLT-HTC02	1-2C #12 TYPE 2
		1"	RM BASIN HT	FLT-HTC02	1-2C #12 TYPE 2
		1-1/2"	20LCP1100	FLT-LP11	1-3C #10 TYPE 2
		2"	41P0701	FLT-MC01	1-3C #6 TYPE 2, 1-5C TYPE 1
		2"	41P0702	FLT-MC01	1-3C #6 TYPE 2, 1-5C TYPE 1
		1-1/2"	41LUT001	FLT-CP01	1-19C TYPE 1
(J)	ELECTRICAL SIGNAL	1"	FLT-F1003	FLT-LP10	1-3C #12 TYPE 2
		1"	41ZS1101	FLT-CP01	1-5C TYPE 1
		1"	41ZS1102	FLT-CP01	1-5C TYPE 1
		2-2"	PHH-2	FLT-CP01	PULLSTRING
		2-2"	PHH-2	FLT-CP01	PULLSTRING
		1"	20F1001	FLT-TUBA01	1-TYPE 3
(K)	ELECTRICAL SIGNAL	1"	20FV2101	20CP001	1-13C TYPE 1
		1"	20FV2101	20CP001	1-13C TYPE 1
		1"	20LCP1101	FLT-LP10	1-3C TYPE 1
		1"	20LCP1101	FLT-LP10	1-3C TYPE 1
		1"	20LCP1101	20CP002	1-5C TYPE 1
		1"	NEUT-BGN-HI	FLT-HTC01	1-2C #12 TYPE 2
(L)	ELECTRICAL SIGNAL	1"	20P001	FLT-MC01	1-3C #10 TYPE 2
		1"	20P002	FLT-MC01	1-3C #10 TYPE 2
		1-1/2"	80P001	80LCP0100	1-3C #12 TYPE 2, 1-5C TYPE 1
		1-1/2"	80P002	80LCP0100	1-3C #12 TYPE 2, 1-5C TYPE 1
		1"	80LSTUB	80LCP0100	1-5C TYPE 1
		2-2"	PHH-1	FLT-PE04	PULLSTRING
(M)	ELECTRICAL SIGNAL	1-1/2"	80P001	80LCP0100	1-3C #12 TYPE 2, 1-5C TYPE 1
		1-1/2"	80P002	80LCP0100	1-3C #12 TYPE 2, 1-5C TYPE 1
		1"	80LSTUB	80LCP0100	1-5C TYPE 1
		2-2"	PHH-1	FLT-CP01	PULLSTRING
		2-2"	PHH-1	FLT-CP01	PULLSTRING
		2-2"	PHH-1	FLT-CP01	PULLSTRING
(N)	ELECTRICAL SIGNAL	2-4"	FLT-TC01	PHH-12	PULLROPE (QUEST)
		2-2"	PHH-12	PHH-11	PULLROPE
		2-2"	PHH-12	PHH-11	PULLROPE (QUEST)
		2-2"	PHH-12	PHH-11	PULLROPE (QUEST)
		2-2"	PHH-12	PHH-11	PULLROPE (QUEST)
		2-2"	PHH-12	PHH-11	PULLROPE (QUEST)

RECORD DRAWINGS
 Revisions Drawn By JMD Date 6/2006
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DSGN	RG COLLETTE
DR	MS MCNEELY
CHK	JF TURNER
APVD	CW MASSIE

NO.	DATE	REVISION	BY	APVD
			JMD	RCF

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 SITE DETAILS

SHEET	149
DWG	40-E-404
DATE	APRIL 2002
PROJ	170368

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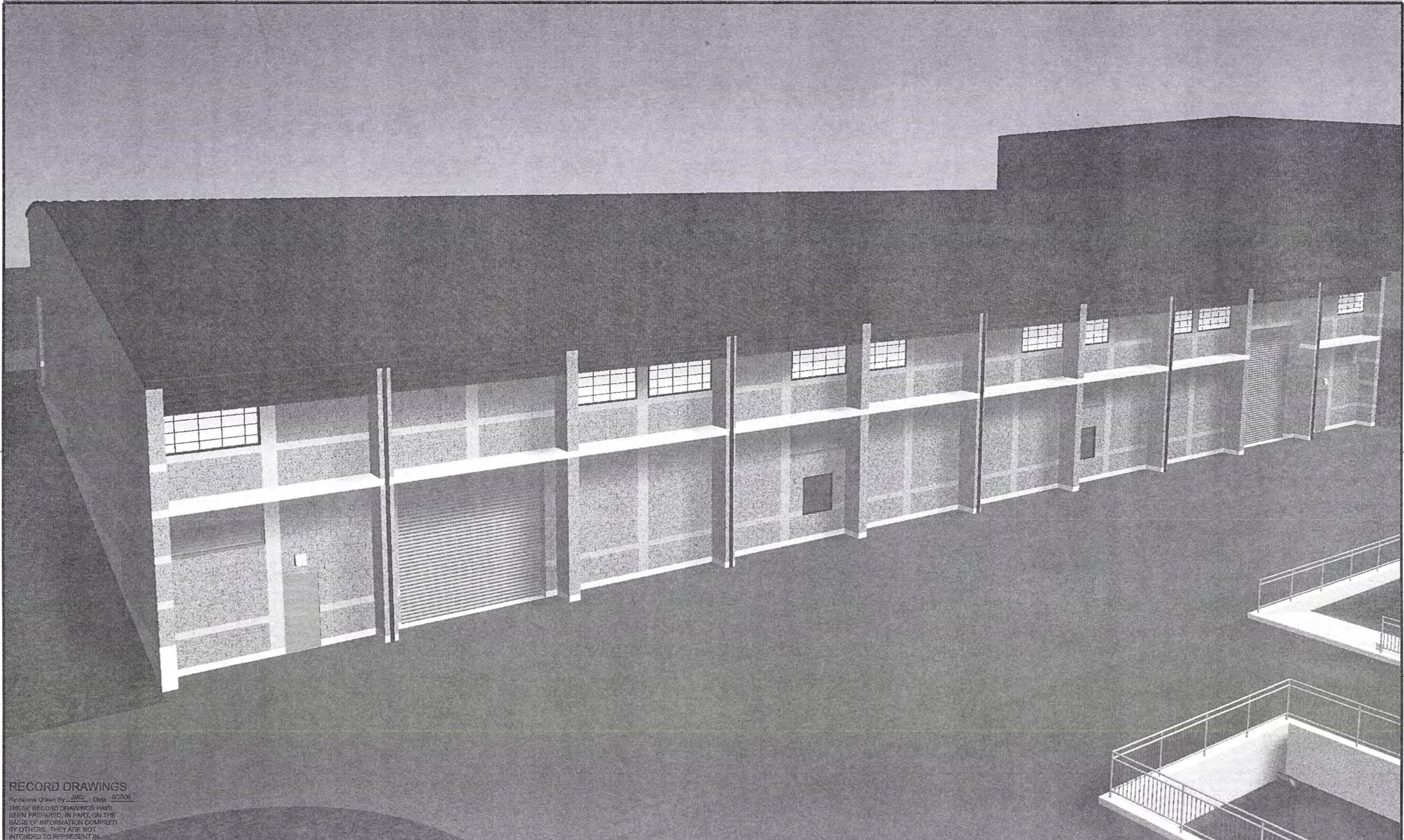
**ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT**

W-01-04

**Record Drawings
Book 2 of 2**

CH2MHill

April 2004



RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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DSGN	JE CAVE				
DR	JA HOSTETLER				
CHK	EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

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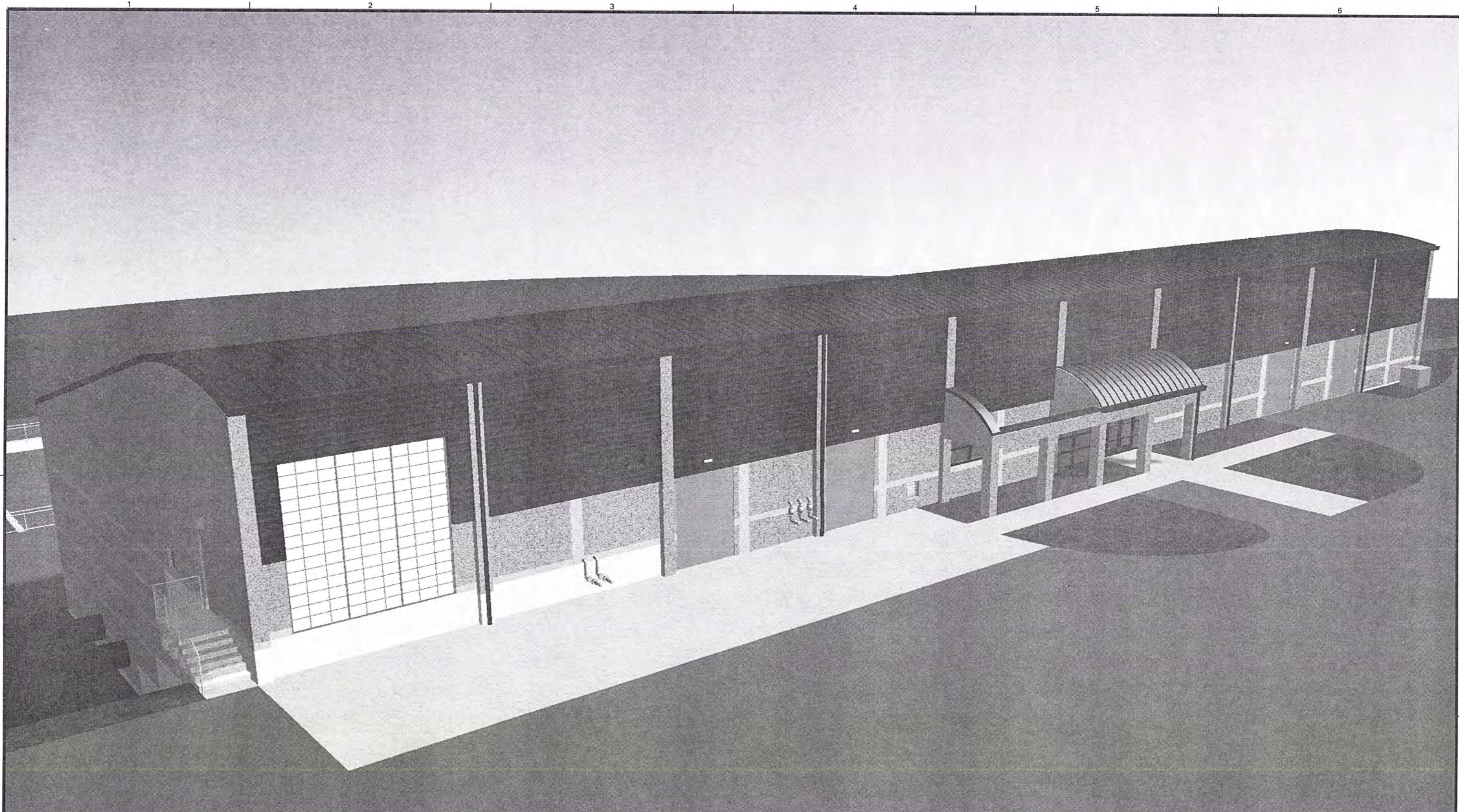


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 RENDERING - SOUTH VIEW

SHEET	150
DWG	50-R-001
DATE	APRIL 2004
PROJ	170368

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Revisions Drawn By JMD Date 6/2006

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DSGN	JE CAVE						
DR	JA HOSTETLER						
CHK	EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 RENDERING - NORTH VIEW

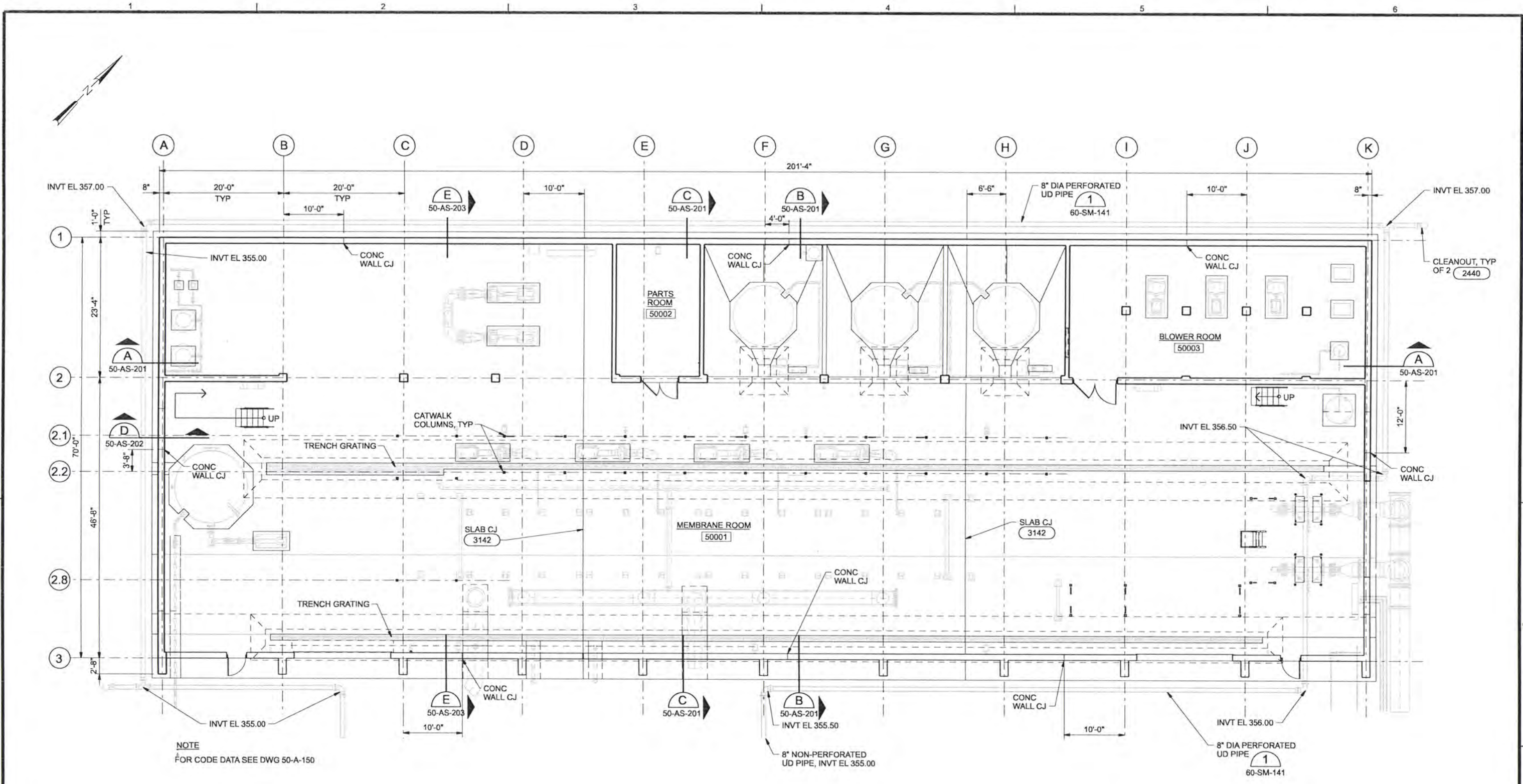
SHEET	151
DWG	50-R-002
DATE	APRIL 2004
PROJ	170368

FILENAME: 50nren2d_170368.dgn

PLOT DATE: 28-AUG-2003

PLOT TIME: 13:23:08

A
 B
 C
 D
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NOTE
FOR CODE DATA SEE DWG 50-A-150

OVERALL LOWER LEVEL PLAN
1/8"=1'-0"

RECORD DRAWINGS

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DSGN	MJ MERKLEIN								
DR	KJ DAVIS								
CHK	EB PIETERICK								
APVD	SM FREY								
	CW MASSIE	NO.	DATE	REVISION	BY	RCF			

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ARCHITECTURAL / STRUCTURAL
 OVERALL LOWER FLOOR PLAN

SHEET	152
DWG	50-AS-130
DATE	APRIL 2004
PROJ	170368

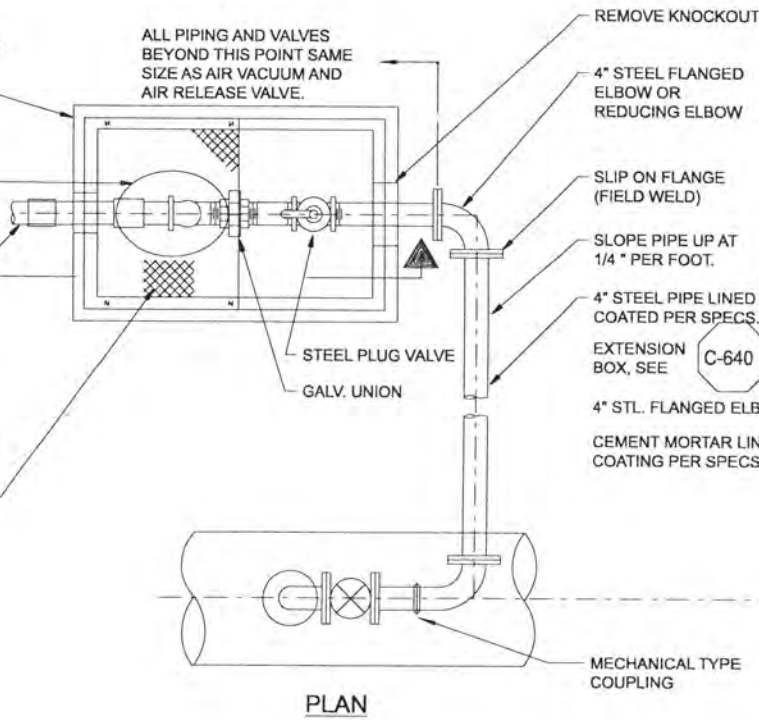
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PRECAST CONCRETE UTILITY VAULT (2'-6" x 4'-0" INSIDE) WITH STEEL RECESS FOR COVER (GALVANIZE) OR CAST IN PLACE VAULT AT CONTRACTORS OPTION.

AIR VACUUM AND AIR RELEASE VALVE, FOR SIZE SEE PLAN AND PROFILE

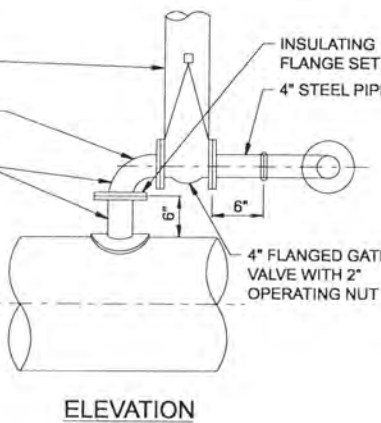
ALL PIPING AND VALVES BEYOND THIS POINT SAME SIZE AS AIR VACUUM AND AIR RELEASE VALVE.

TO STAND PIPE
5" THICK, 2 PIECE STEEL CHECKER PLATE COVER. COVER SECURE TO VALVE BOX WITH ... F.H. STAINLESS STEEL MACHINE BOLTS WITH ... THICK NEOPRENE GASKET (GALV. AFTER FABRICATION.)



PLAN

REMOVE KNOCKOUT
4" STEEL FLANGED ELBOW OR REDUCING ELBOW
SLIP ON FLANGE (FIELD WELD)
SLOPE PIPE UP AT 1/4" PER FOOT.
4" STEEL PIPE LINED & COATED PER SPECS.
EXTENSION BOX, SEE C-640
4" STL. FLANGED ELBOW
CEMENT MORTAR LINED COATING PER SPECS.
INSULATING FLANGE SET
4" STEEL PIPE
4" FLANGED GATE VALVE WITH 2" OPERATING NUT



ELEVATION

NOTES:
1. ALL FERROUS SURFACES OF PIPE AND APPURTENANCES TO BE PROVIDED WITH PROTECTIVE COATINGS PER SPECS.
2. PROVIDE STAINLESS STEEL NUTS, BOLTS AND WASHERS TO BURIED FLANGES AND COUPLINGS, EXCEPT FOR NONMETALLIC WASHERS TO BE PROVIDED AS PART OF INSULATING FLANGE SET.

CUT 4" OPENING IN TOP RING. FILL AROUND PIPE WITH MASTIC AND URETHANE FOAM.

FINISH GRADE

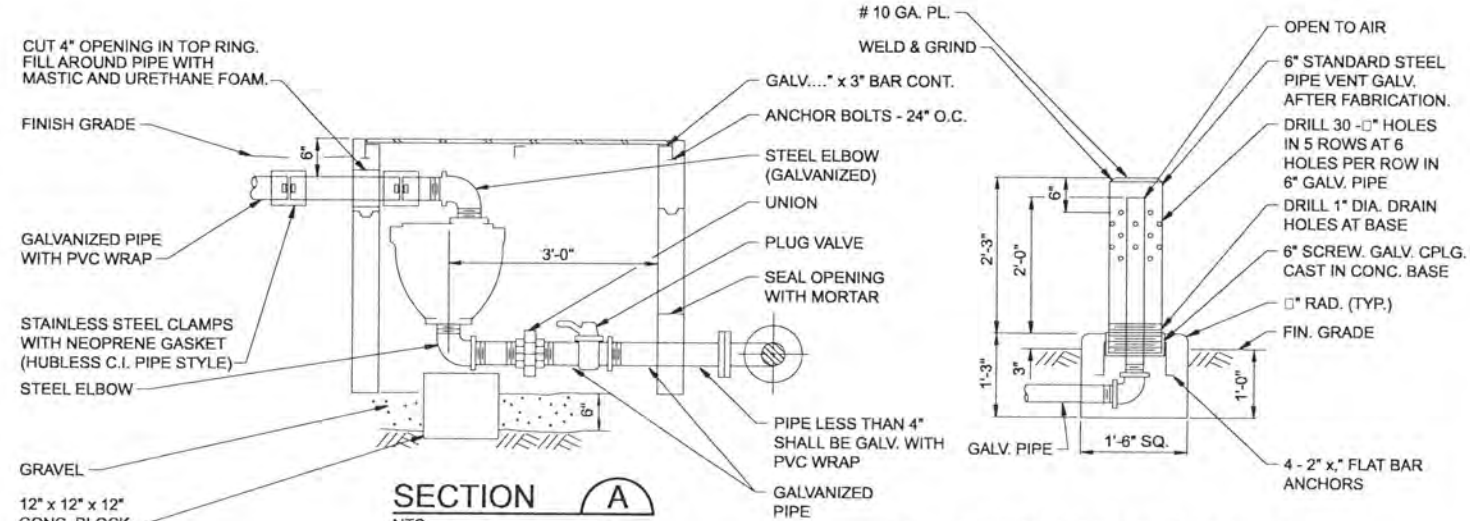
GALVANIZED PIPE WITH PVC WRAP

STAINLESS STEEL CLAMPS WITH NEOPRENE GASKET (HUBLESS C.I. PIPE STYLE)

STEEL ELBOW

GRAVEL

12" x 12" x 12" CONC. BLOCK

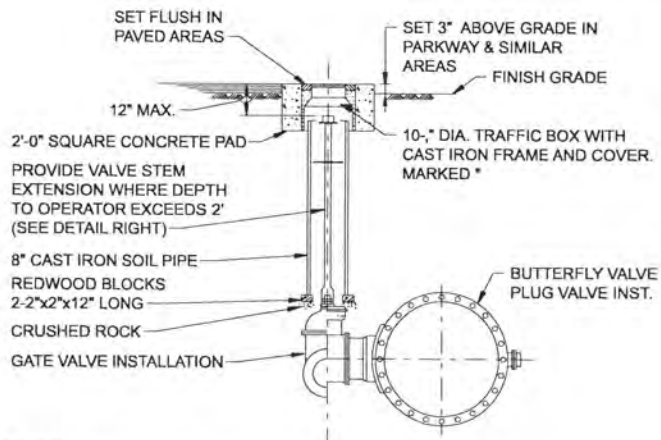


SECTION A
NTS

DETAIL OF STANDPIPE ASSEMBLY

AIR VACUUM AND AIR RELEASE VALVE ASSEMBLY
NTS

X
XX



NOTES:
PROVIDE PROTECTIVE COATING TO EXTERIOR SURFACE OF VALVE BODY IN ACCORDANCE WITH SPECS.
LOCK VALVE EXTENSION TO NUT

BURIED VALVE INSTALLATION
NTS

X
XX

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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DSGN	GG SILBERNAGEL						VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	LG McCALL						<p>CH2MHILL</p> <p>ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT LINN COUNTY, OREGON</p>
CHK	JE BARNHURST	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE				APVD		
		NO.	DATE	REVISION	BY		

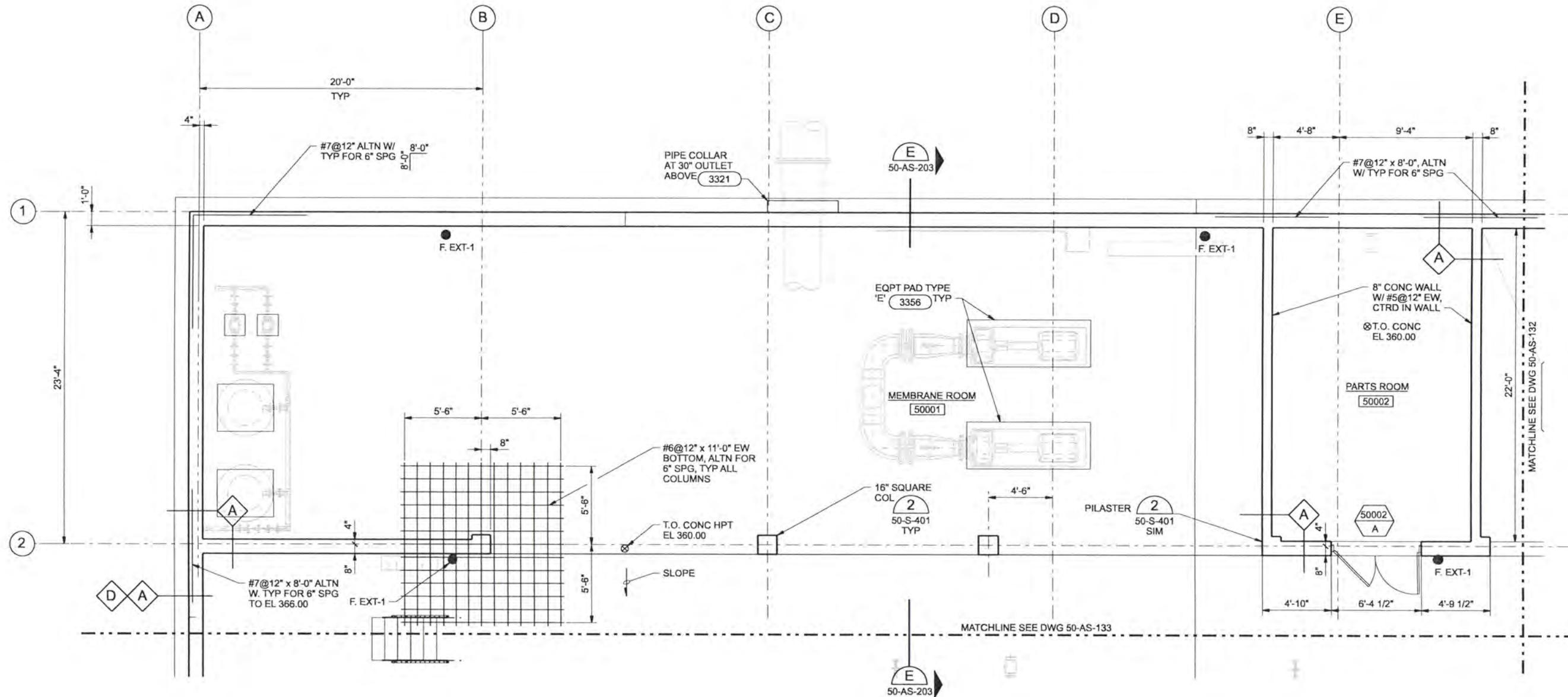
CH2MHILL

ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINES
ALBANY FW DETAILS

SHEET	153
DWG	80-FW-404
DATE	APRIL 2004
PROJ	170368

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LOWER FLOOR AND FOUNDATION PLAN - AREA A
1/4"=1'-0"

A	B
C	D

KEY PLAN

RECORD DRAWINGS

Revisions Drawn By JMD Date 9/2006
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DSGN MJ MERKELIN JE CAVE								
DR KJ DAVIS WB LOVE								
CHK SM FREY EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF				
APVD CW MASSIE	NO.	DATE	REVISION		BY	APVD		

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

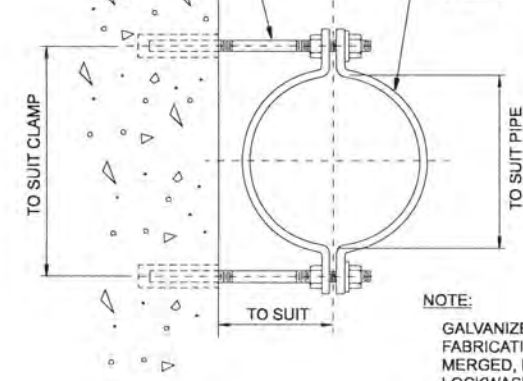
FILTRATION BUILDING
 ARCHITECTURAL / STRUCTURAL
 LOWER FLOOR AND FOUNDATION PLAN
 AREA A

SHEET	153
DWG	50-AS-131
DATE	APRIL 2004
PROJ	170368

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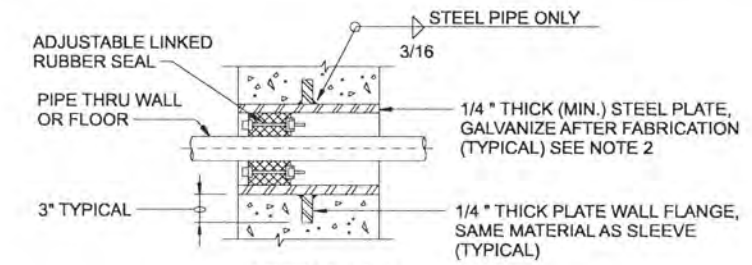
STUD BOLT, MIN. 1/2" DIA. WITH TWO (2) HEX. NUTS & LOCKWASHERS, SET IN DRILLED HOLE WITH EPOXY ADHESIVE.

MIN. BAR 1 1/2" x 1/4" PIPE CLAMP. WHEN USED WITH PVC OR FIBERGLASS PIPE PROVIDE STEEL SHIELD AROUND PIPE AT CLAMP WITH LOOSE FIT. WRAP COPPER TUBES WITH 2" WIDE STRIP OF RUBBER FABRIC.

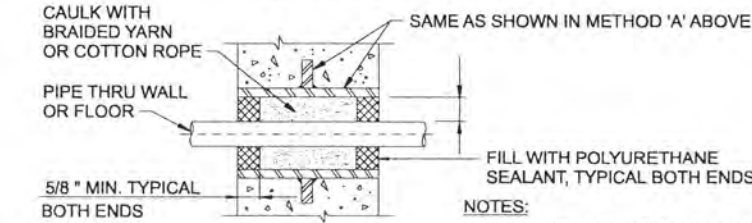


NOTE:
GALVANIZE ALL PARTS AFTER FABRICATION. WHERE SUBMERGED, PIPE CLAMP, NUTS, LOCKWASHERS, ANCHORS AND SHIELDS TO BE TYPE 316 STAINLESS STEEL.

PIPE CLAMP X
NTS



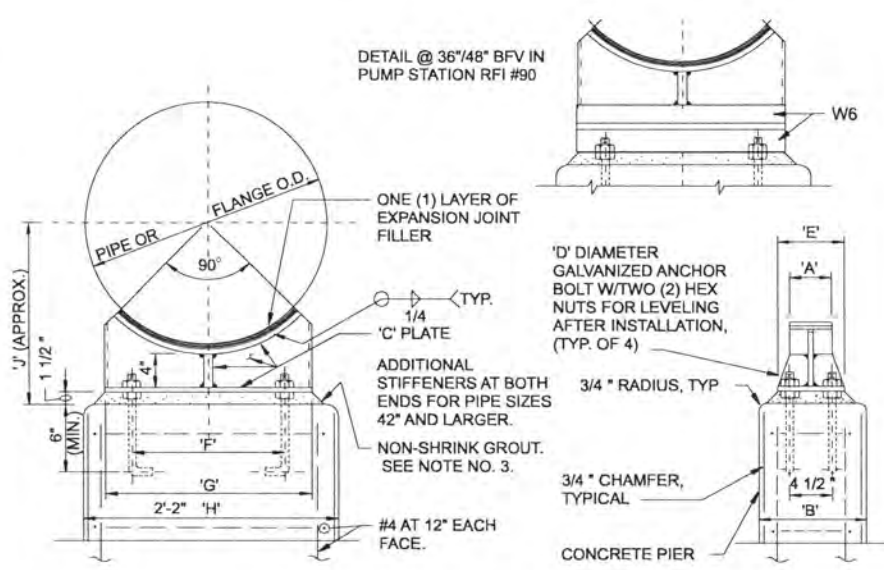
METHOD 'A'



METHOD 'B'

NOTES:
1. THESE SLEEVED PIPE DETAILS ARE TO BE USED IN DRY WALLS ONLY.
2. ELIMINATE SLEEVE IN CORE DRILLED WALLS.

SLEEVED PIPE OPENING X
NTS

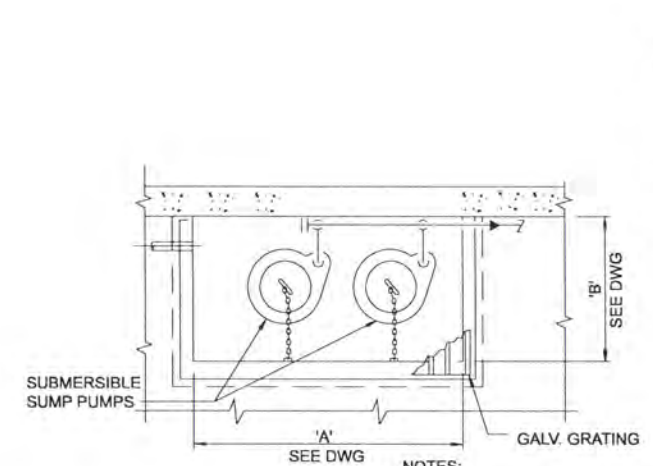


DIMENSIONS IN INCHES

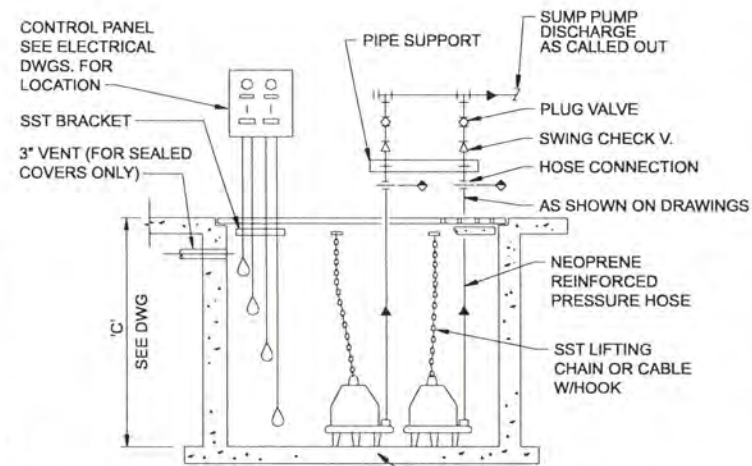
NOMINAL PIPE SIZE	SUPPORTING														
	PIPE						FLANGE								
	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'F'	'G'	'H'	'J'		
6	4	12	3/8	5/8	6	4	1/2	6	12	10	6	1/2	9	16	13
8	4	12	3/8	5/8	6	5	8	13	11	7	1/2	9	16	14	
10	4	12	3/8	5/8	6	6	9	15	12	9	13	18	15		
12	4	12	3/8	5/8	6	7	11	17	13	10	15	20	16		
14	4	12	3/8	5/8	6	8	12	17	14	11	16	21	17		
16	4	12	3/8	5/8	6	9	13	19	15	12	18	24	18		
18	4	12	3/8	5/8	6	10	14	20	16	13	19	24	19		
20	5	12	3/8	5/8	6	10	15	21	17	15	21	26	21		
22	5	12	3/8	5/8	6	12	18	24	18	16	23	28	22		
24	5	12	3/8	5/8	6	13	19	24	19	16	24	30	23		
26	5	12	3/8	3/4	6	14	21	27	20	18	26	32	24		
30	5	12	3/8	3/4	6	16	23	28	22	20	29	34	26		
34	5	15	3/8	3/4	6	18	26	32	24	22	33	39	29		
36	6	15	3/8	3/4	6	19	27	32	25	24	34	40	30		
42	6	18	1/2	1	8	21	31	36	28	27	39	45	33		
48	6	18	1/2	1	8	24	36	42	31	30	44	50	37		
54	6	18	1/2	1	8	28	40	46	34	34	48	56	40		
60	6	18	1/2	1 1/8	8	32	45	52	37	36	54	60	44		
66	6	18	1/2	1 1/8	8	33	49	56	40	40	59	66	47		
72	6	18	1/2	1 1/8	8	36	53	60	43	44	63	70	50		

NOTES:
1. WHEN SUPPORTING PIPE AND FLANGE ALTERNATELY ON THE SAME LINE, CONCRETE PIERS FOR PIPE SUPPORTS SHALL ALL HAVE THE SAME DIMENSION 'H' FOR FLANGE SUPPORT.
2. PIPE SUPPORTS TO BE LOCATED IN PLAN AT POINTS MARKED THUS: (X)
3. WHERE DIFFERENTIAL SETTLEMENT IS LIKELY TO OCCUR, OMIT GROUT AS DIRECTED BY THE ENGINEER.
4. GALVANIZE AFTER FABRICATION.
5. WHERE PIPE SUPPORT SPANS CJ, #4 VERTICALS @12" OC ARE TO BE DOWELED INTO ONE SIDE OF SLAB ONLY. RFI #35

PIPE SUPPORT X
NTS



PLAN X
NTS



SECTION X
NTS

DRAINAGE SUMP WITH DUPLEX PUMPS X
NTS

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	GG SILBERNAGEL				
DR	LG McCALL				
CHK	JE BARNHURST	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD
			REVISION		

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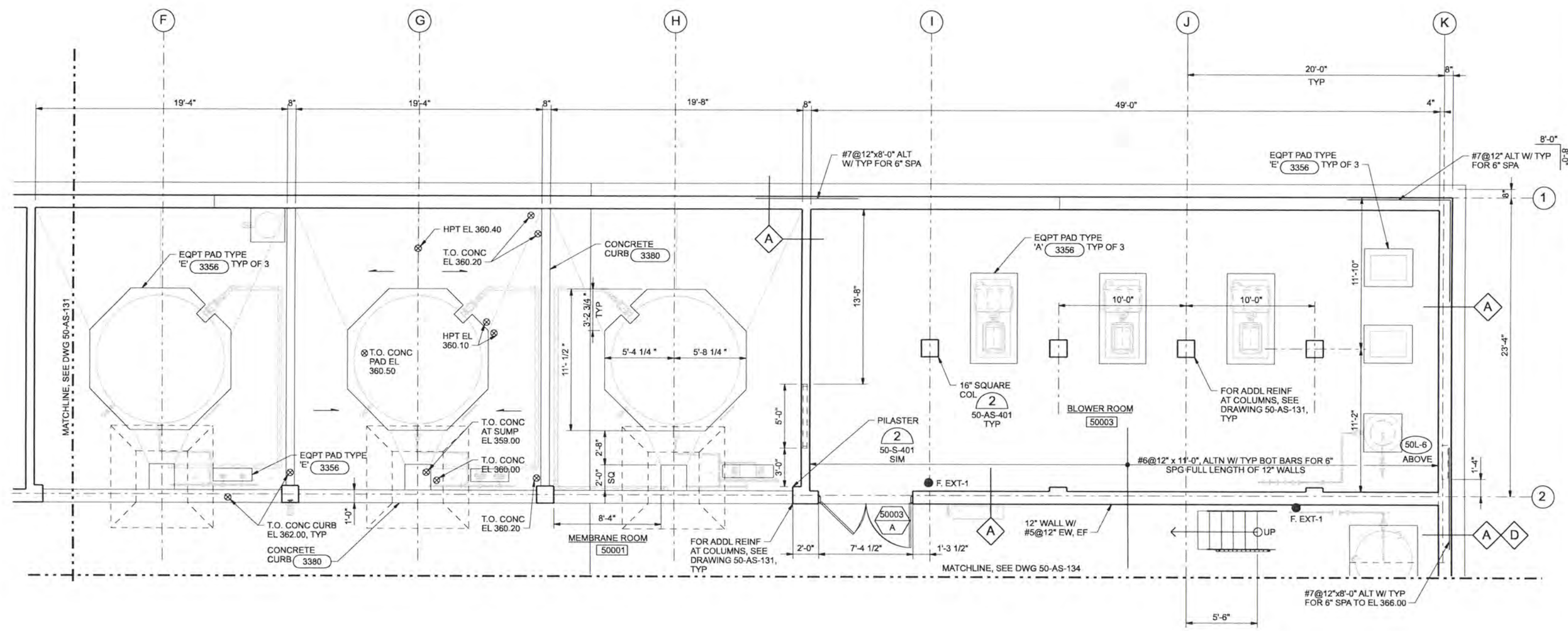


ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINES
ALBANY FW DETAILS

SHEET	154
DWG	80-FW-405
DATE	APRIL 2004
PROJ	170368

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LOWER FLOOR AND FOUNDATION PLAN - AREA B
1/4"=1'-0"

A	B
C	D

KEY PLAN

RECORD DRAWINGS

Revisions Drawn By JMD Date 8/2006
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION, THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

DSGN MJ MERKLEIN JE CAVE										
DR KJ DAVIS WB LOVE										
CHK SM FREY EB PIETERICK										
APVD CW MASSIE										
	NO.	DATE	REVISION	BY	APVD					

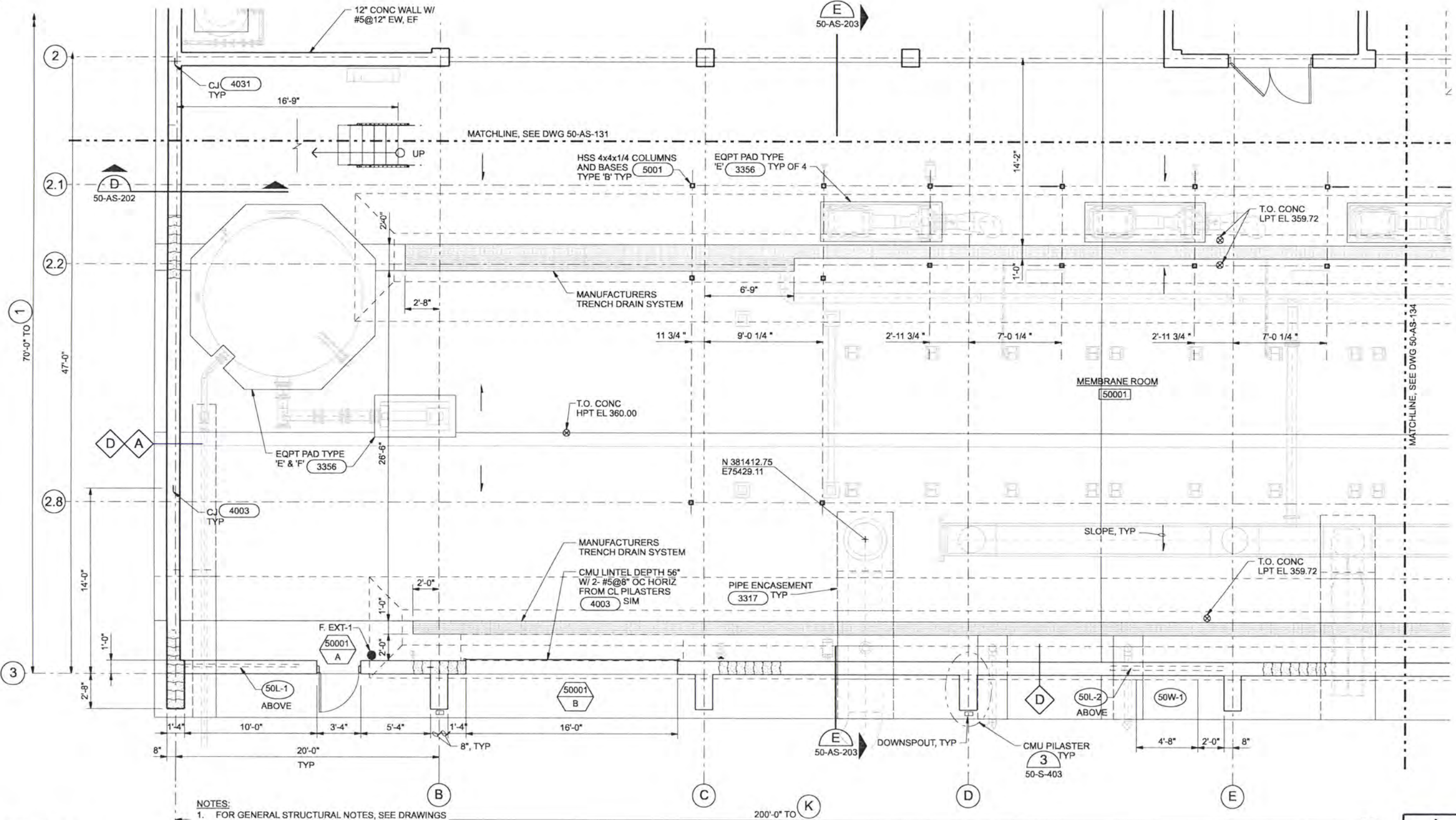


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
ARCHITECTURAL / STRUCTURAL
LOWER FLOOR AND FOUNDATION PLAN
AREA B

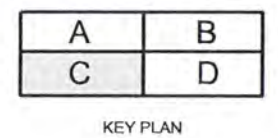
SHEET	154
DWG	50-AS-132
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
1. FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 01-G-005 AND 01-G-006.
 2. FOR GENERAL CMU WALL REINFORCING PLACEMENT, SEE (4004)
 3. FOR CMU OPENING (LINTEL AND JAMB) REINFORCING, SEE (4002) AND (4003) TYPICAL.

LOWER FLOOR AND FOUNDATION PLAN - AREA C
1/4"=1'-0"



RECORD DRAWINGS

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DSGN	MJ MERKLEIN				
DR	KJ DAVIS				
CHK	SM FREY	6/2006	RECORD DRAWING	JMD	RCF
APVD	EB PIETERICK				
	CW MASSIE	NO.	DATE	BY	APVD

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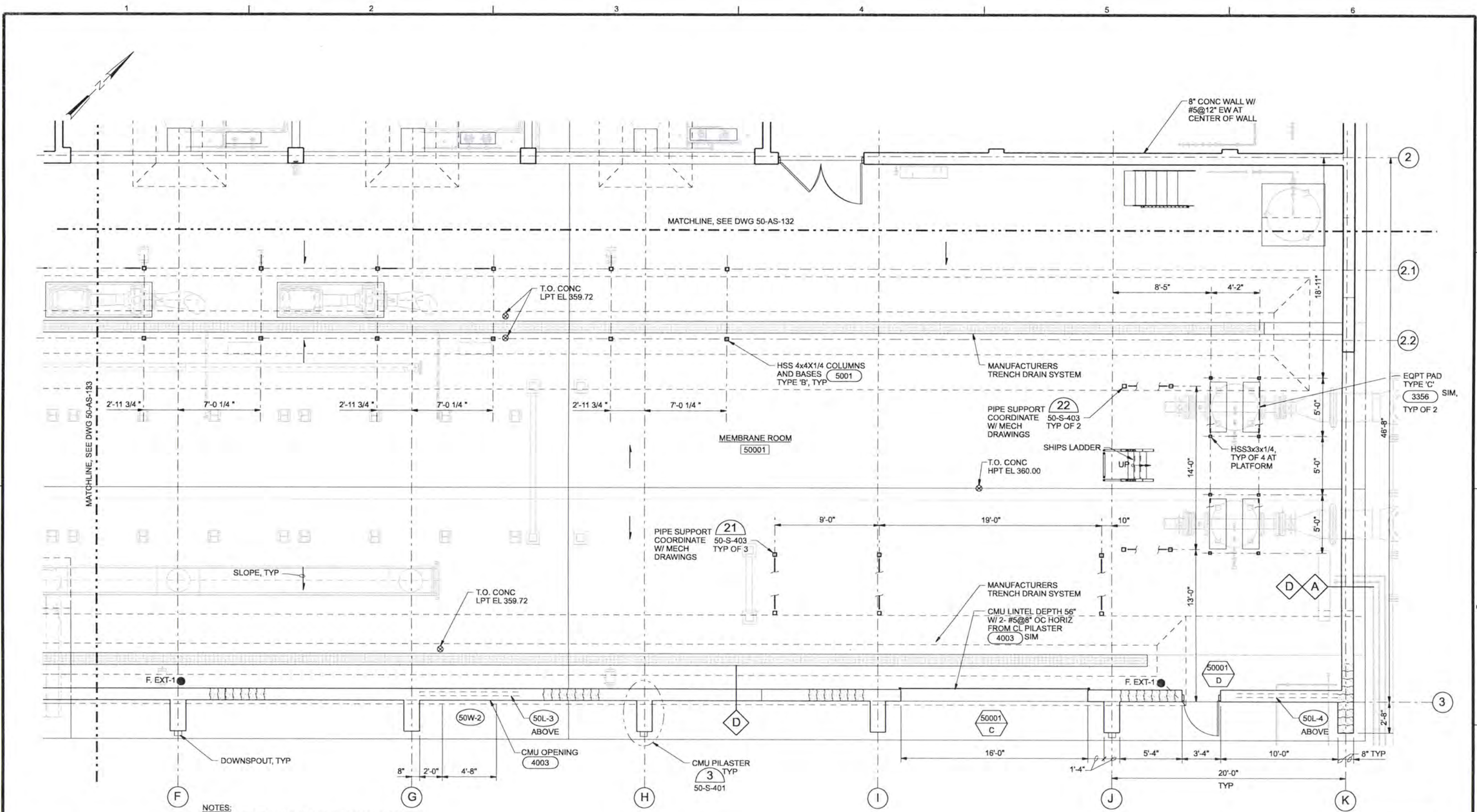


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
ARCHITECTURAL / STRUCTURAL
LOWER FLOOR AND FOUNDATION PLAN
AREA C

SHEET	155
DWG	50-AS-133
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
- FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 01-G-005 AND 01-G-006.
 - FOR GENERAL CMU WALL REINFORCING PLACEMENT, SEE 4004
 - FOR CMU OPENING (LINTEL AND JAMB) REINFORCING, SEE 4002 AND 4003 TYPICAL.

LOWER FLOOR AND FOUNDATION PLAN - AREA D
1/4"=1'-0"

A	B
C	D

KEY PLAN

RECORD DRAWINGS

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DSGN	MJ MERKLEIN JE CAVE				
DR	KJ DAVIS WB LOVE				
CHK	SM FREY EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

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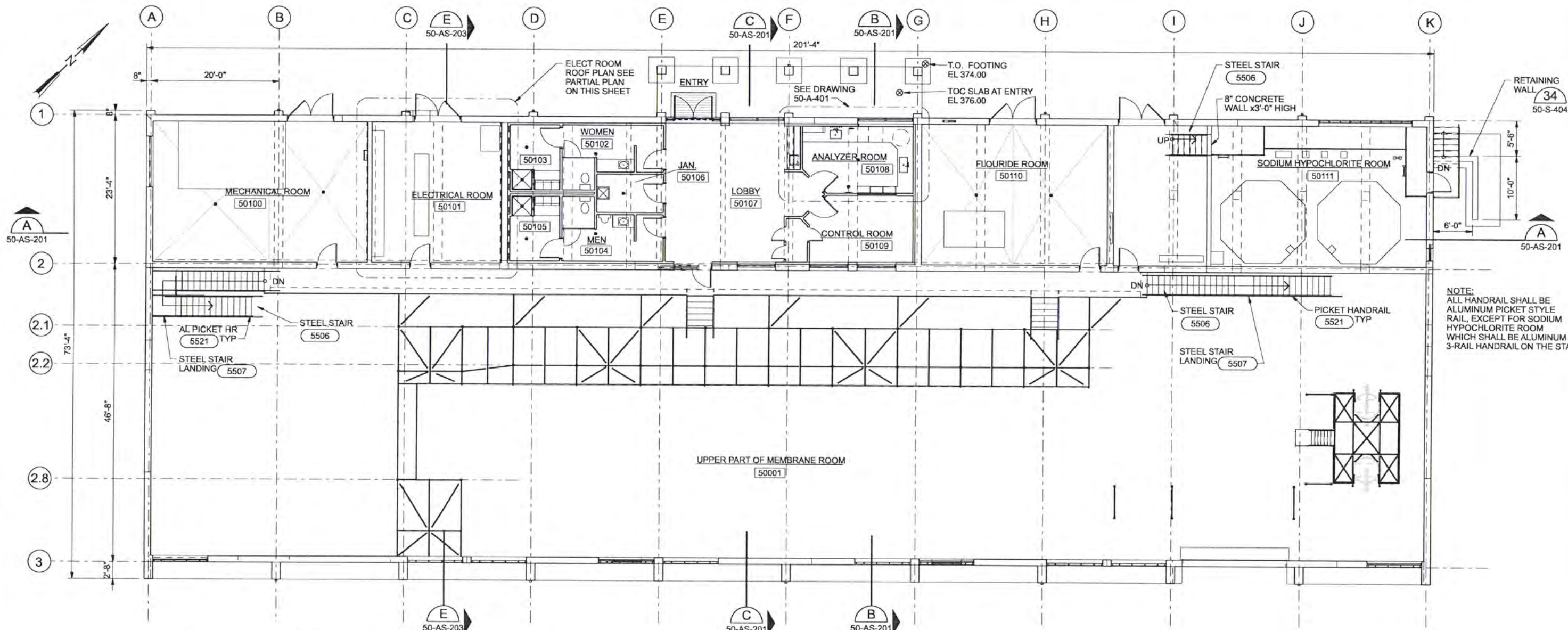


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ARCHITECTURAL / STRUCTURAL
 LOWER FLOOR AND FOUNDATION PLAN
 AREA D

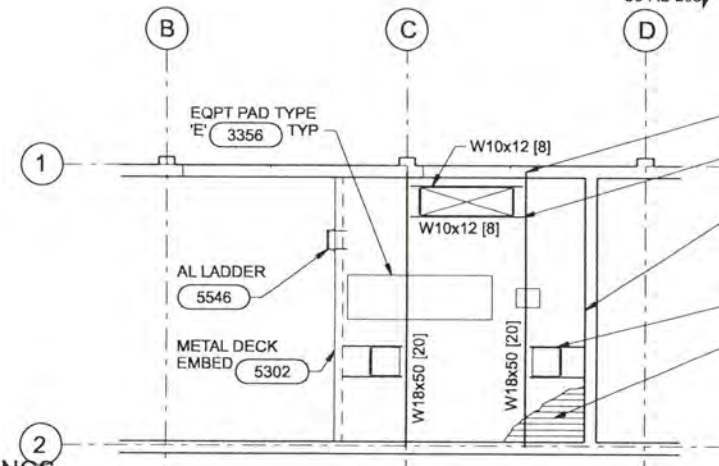
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DWG	50-AS-134
DATE	APRIL 2004
PROJ	170368

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NOTE:
ALL HANDRAIL SHALL BE ALUMINUM PICKET STYLE RAIL, EXCEPT FOR SODIUM HYPOCHLORITE ROOM WHICH SHALL BE ALUMINUM 3-RAIL HANDRAIL ON THE STAIR.

OVERALL UPPER FLOOR PLAN
1/8"=1'-0"



PARTIAL PLAN ABOVE ELECTRICAL ROOM
1/8"=1'-0"

- STRUCTURAL NOTES:**
- FLOOR DESIGN LIVE LOAD-
MECHANICAL ROOM-150 PSF
ELECTRICAL ROOM- 300 PSF
RESTROOMS, LOBBY-100 PSF
FLUORIDE ROOM-150 PSF
SODIUM HYPOCHLORITE ROOM-150 PSF
 - DECK SHALL BE 3", 18 GAGE, 36" WIDE PANELS GALVANIZED STEEL ROOF DECK
 $I_p = 1.251 \text{ IN}^4$
 $S = 0.805 \text{ IN}^3$
 - DECK WELDS SHALL BE
A. 4 5/8" DIAMETER PUDDLE WELDS PER SHEET PERPENDICULAR TO SPAN
B. 5/8" DIAMETER PUDDLE WELDS AT 12" OC PARALLEL TO SPAN
C. TOP SEAM WELD AT 18" OC

BEAM NO. (SEE PLANS)	SIZE		TOP REINF AT LEFT SUPPORT		BOTTOM REINF		* TOP REINF AT RIGHT SUPPORT		S BARS	SHEAR REINF		REMARKS
	W	D	T	TC	B	BC	T	TC		NO. SIZE	SPACING FROM LEFT SUPPORT	
B50-1	16"	48"	-	4- #7	-	4- #7	2- #8	4- #7	#5@12"	#4	12" MAXIMUM, TYP	MAXIMUM 4 BARS PER LAYER
B50-2	16"	24"	-	4- #7	-	4- #7	2- #7	4- #7	#5@12"	#4	12" MAXIMUM, TYP	MAXIMUM 4 BARS PER LAYER
B50-3	16"	36"	-	4- #7	-	4- #7	2- #7	4- #7	#5@12"	#4	12" MAXIMUM, TYP	MAXIMUM 4 BARS PER LAYER
B50-4	16"	40"	-	3- #7	-	3- #7	-	3- #7	#5@12"	#4	12" MAXIMUM, TYP	
B50-5	16"	48"	-	3- #7	-	3- #7	-	3- #7	#5@12"	#4	12" MAXIMUM, TYP	
B50-6	16"	36"	-	3- #7	-	3- #7	-	3- #7	#5@12"	#4	12" MAXIMUM, TYP	
B50-7	16"	36"	-	4- #8	-	4- #7	2- #8	4- #8	#5@12"	#4	6" FOR 6'-0", 12" MAX, 6" FOR 6'-0"	MAXIMUM 4 BARS PER LAYER

- NOTES:**
- * TOP REINFORCING MAY BE CALLED-OUT TWICE IN SCHEDULE. (I.E. "TOP REINFORCING AT RIGHT SUPPORT" OF BEAM THAT IS CONTINUOUS OVER THE RIGHT SUPPORT IS CALLED-OUT AS "TOP REINFORCING AT LEFT SUPPORT" OF ADJACENT BEAM.)
 - LEFT SUPPORT IS DESIGNATED AS THE SUPPORT CLOSEST TO THE LEFT SIDE OR BOTTOM OF SHEET ON WHICH FRAMING PLAN IS DRAWN, UNLESS NOTED OTHERWISE ON PLAN.
 - FOR DETAIL, SEE (3366)

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN MJ MERKLEIN JE CAVE												
DR KJ DAVIS WB LOVE												
CHK SM FREY EB PIETERICK												
APVD CW MASSIE	NO.	DATE	REVISION	BY	APVD							

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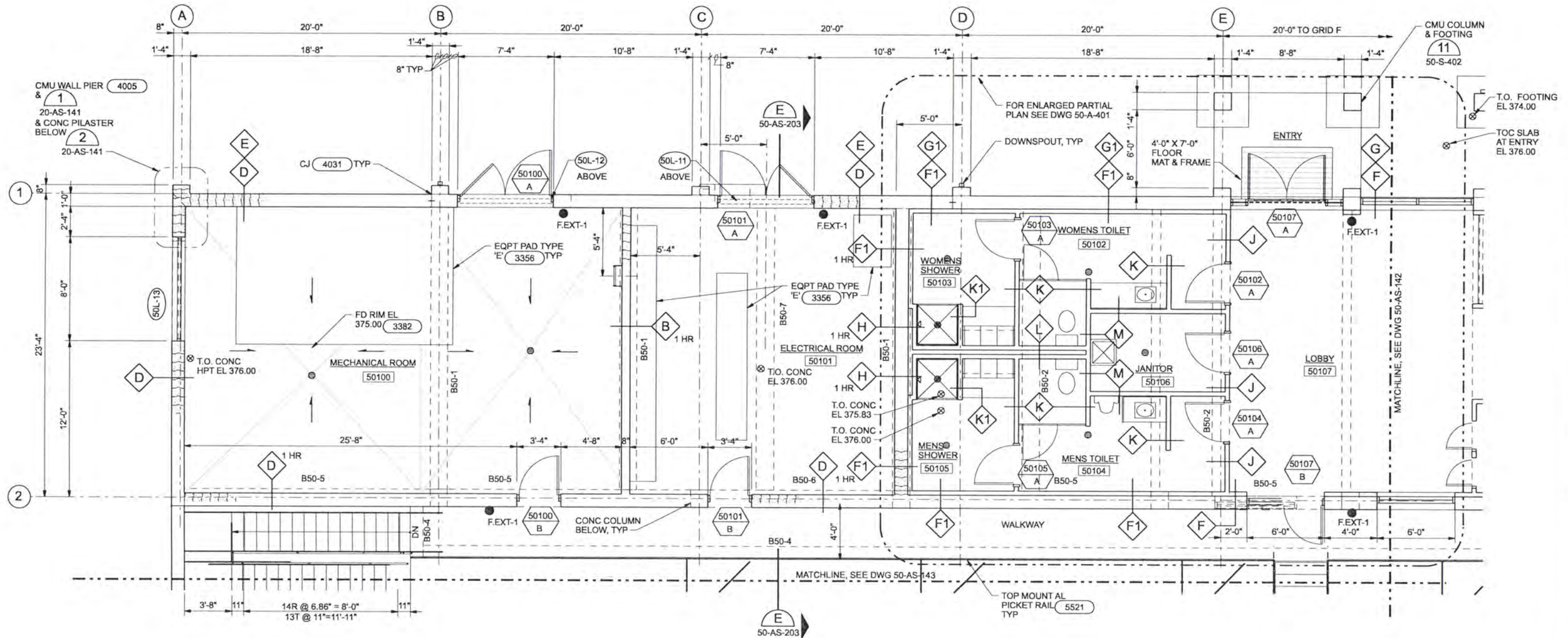


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
ARCHITECTURAL / STRUCTURAL
OVERALL UPPER FLOOR PLAN

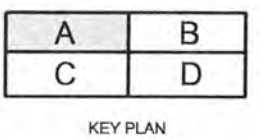
SHEET	157
DWG	50-AS-140
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
- FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 01-G-005 AND 01-G-006.
 - FOR GENERAL CMU WALL REINFORCING PLACEMENT, SEE 4004
 - FOR CMU OPENING (LINTEL AND JAMB) REINFORCING, SEE 4002 AND 4003 TYPICAL.

UPPER FLOOR PLAN - AREA A
1/4"=1'-0"



RECORD DRAWINGS

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DR	KJ DAVIS				
CHK	SM FREY				
APVD	EB PIETERICK				
	CW MASSIE	NO.	DATE	REVISION	BY

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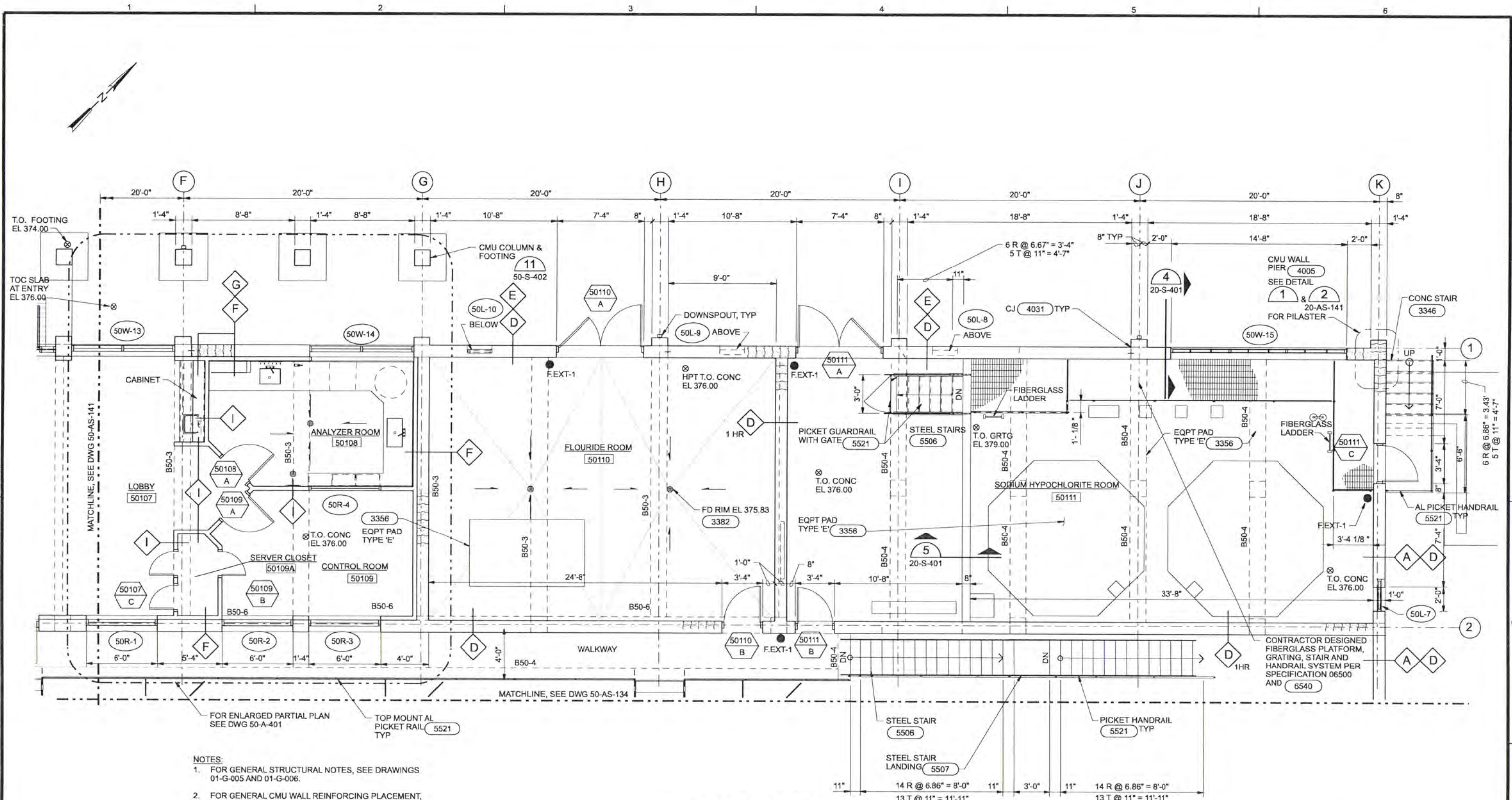


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ARCHITECTURAL / STRUCTURAL
 UPPER FLOOR PLAN
 AREA A

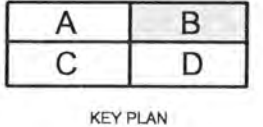
SHEET	158
DWG	50-AS-141
DATE	APRIL 2004
PROJ	170368

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 - FOR CMU OPENING (LINTEL AND JAMB) REINFORCING, SEE 4002 AND 4003 TYPICAL.
 - FOR RAISED CONCRETE CONTAINMENT WALL AT SODIUM HYPOCHLORITE ROOM, SEE 50-S-401

UPPER FLOOR PLAN - AREA B
1/4"=1'-0"



RECORD DRAWINGS

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DR	KJ DAVIS				
CHK	SM FREY				
APVD	EB PIETERICK				
	CW MASSIE	NO.	DATE	REVISION	BY
					APVD

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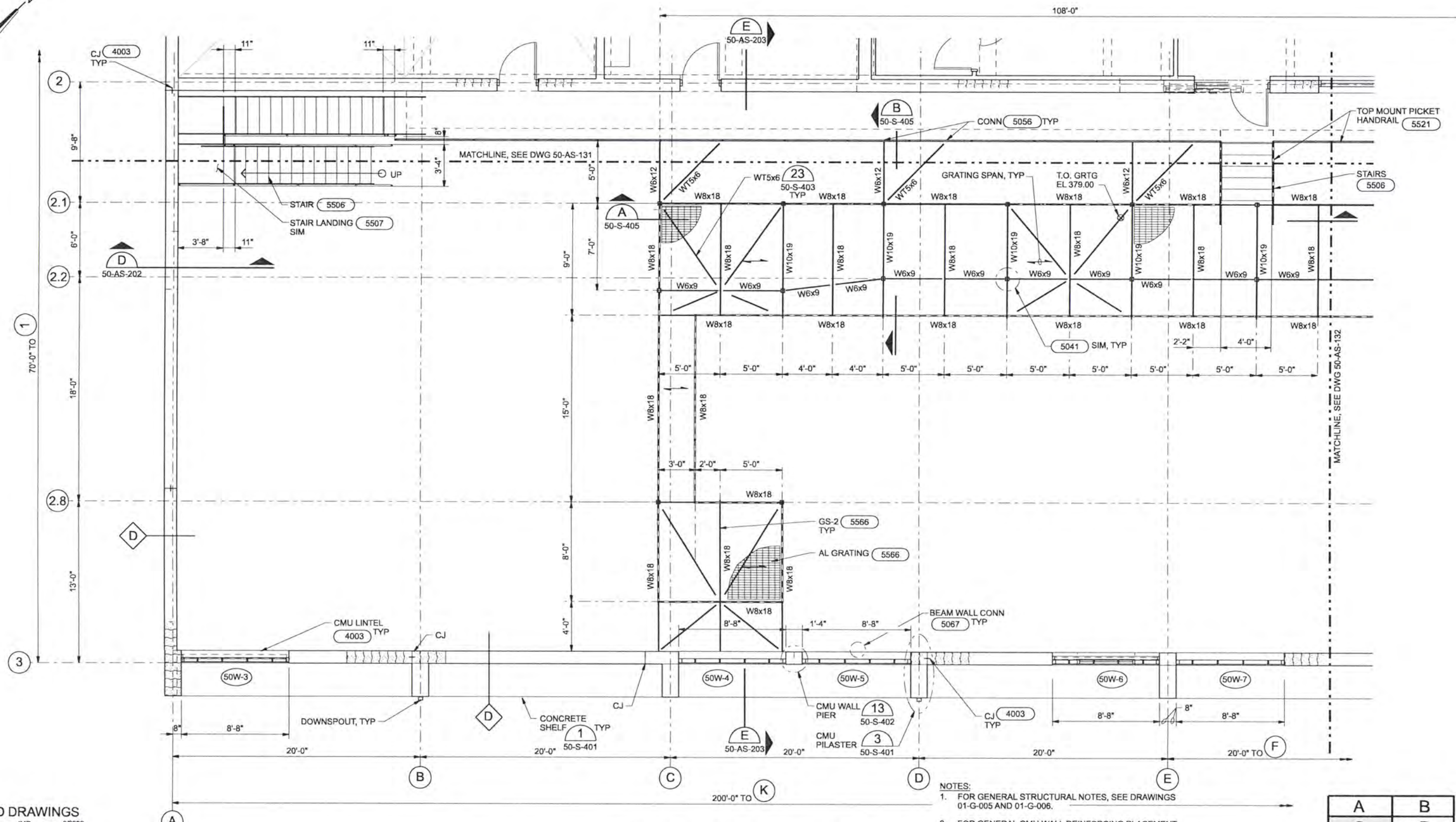


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ARCHITECTURAL / STRUCTURAL
 UPPER FLOOR PLAN
 AREA B

SHEET	159
DWG	50-AS-142
DATE	APRIL 2004
PROJ	170368

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DR	KJ DAVIS				
CHK	SM FREY				
APVD	EB PIETERICK				
	CW MASSIE	NO.	DATE	REVISION	BY
			6/2006	RECORD DRAWING	JMD RCF
					APVD

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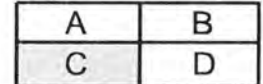


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ARCHITECTURAL / STRUCTURAL
 UPPER FLOOR PLAN
 AREA C

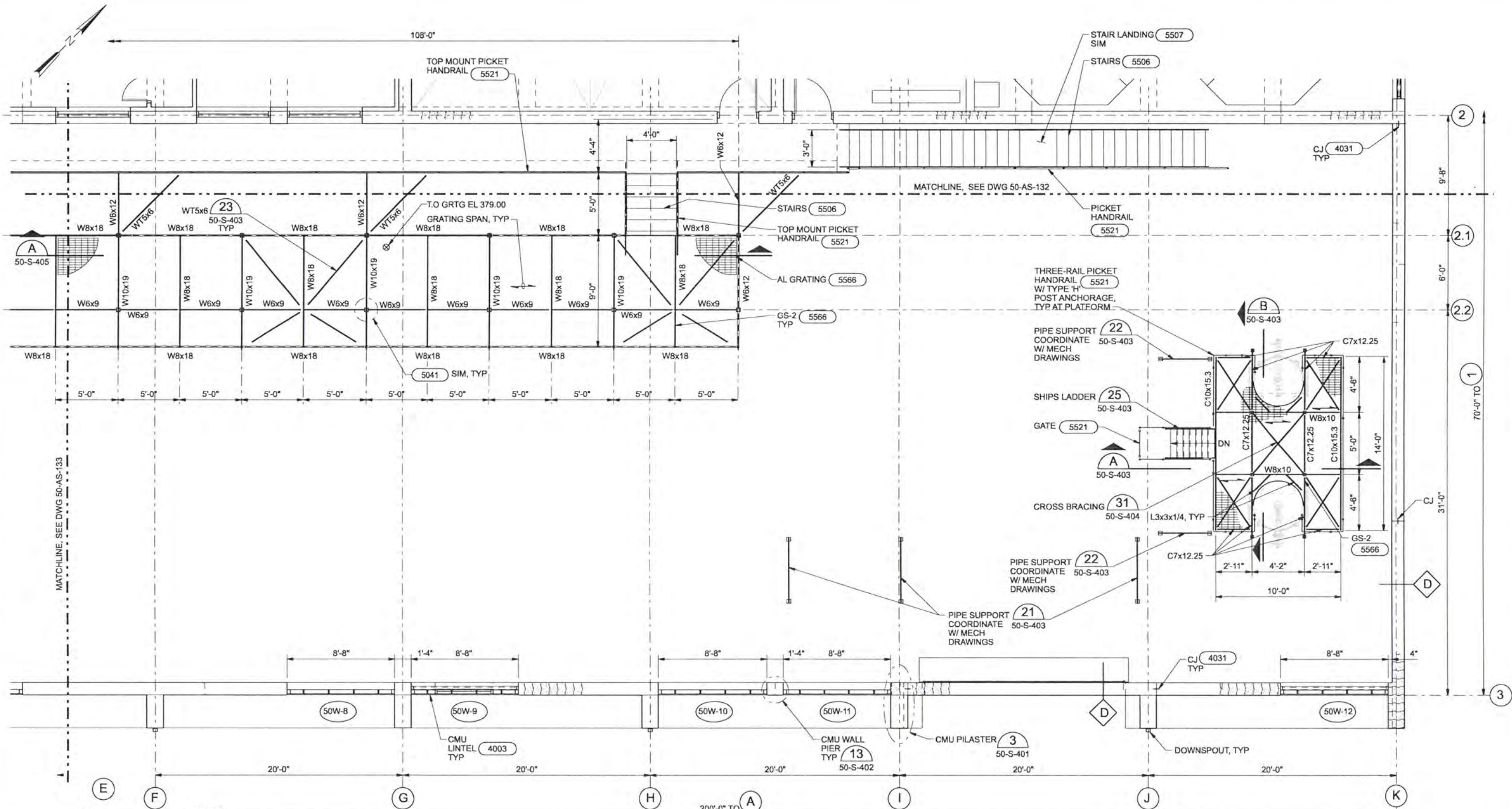
SHEET	160
DWG	50-AS-143
DATE	APRIL 2004
PROJ	170368

- NOTES:**
- FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 01-G-005 AND 01-G-006.
 - FOR GENERAL CMU WALL REINFORCING PLACEMENT, SEE (4004)
 - FOR CMU OPENING (LINTEL AND JAMB) REINFORCING, SEE (4002) AND (4003) TYPICAL.



UPPER FLOOR PLAN - AREA C
 1/4"=1'-0"

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DR	KJ DAVIS				
CHK	SM FREY				
APVD	EB PIETERICK				
	CW MASSIE	NO.	DATE	REVISION	BY
			6/2006	RECORD DRAWING	JMD RCF

UPPER FLOOR PLAN - AREA D
 1/4"=1'-0"



ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

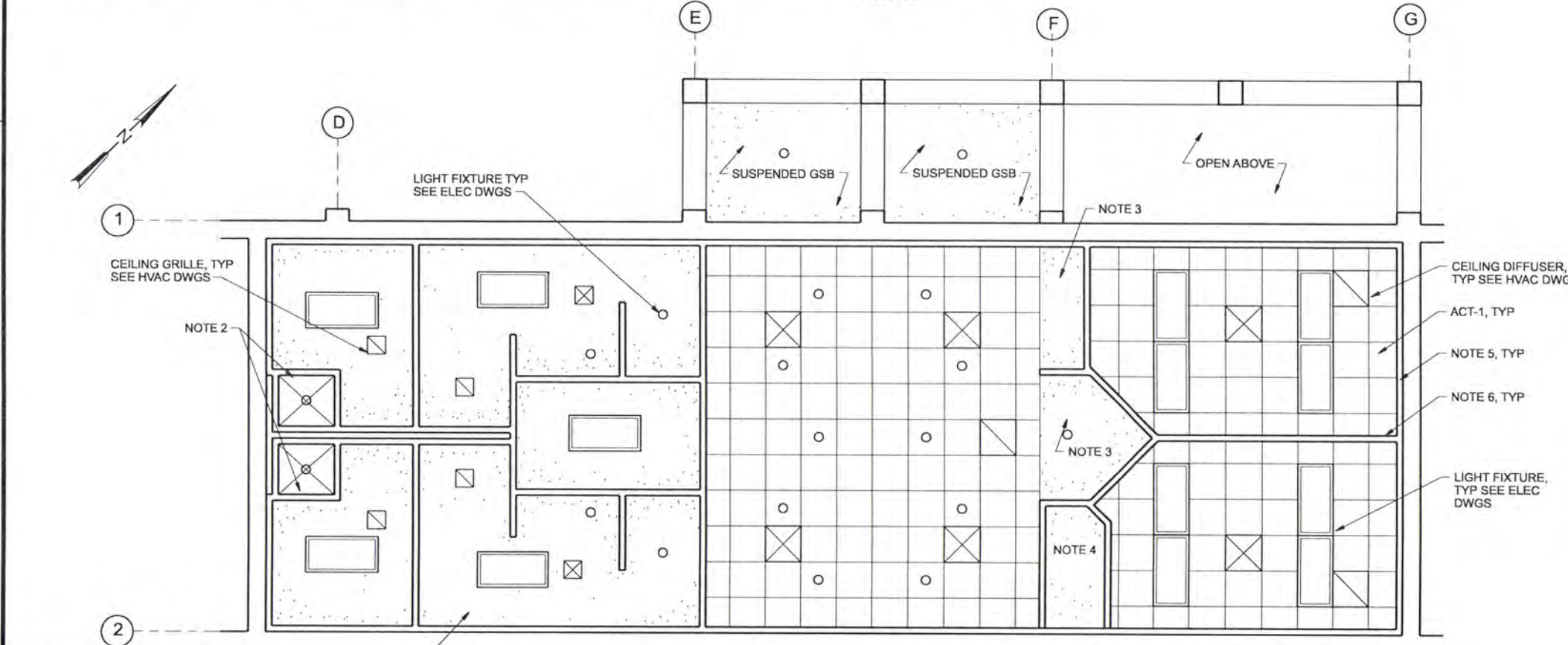
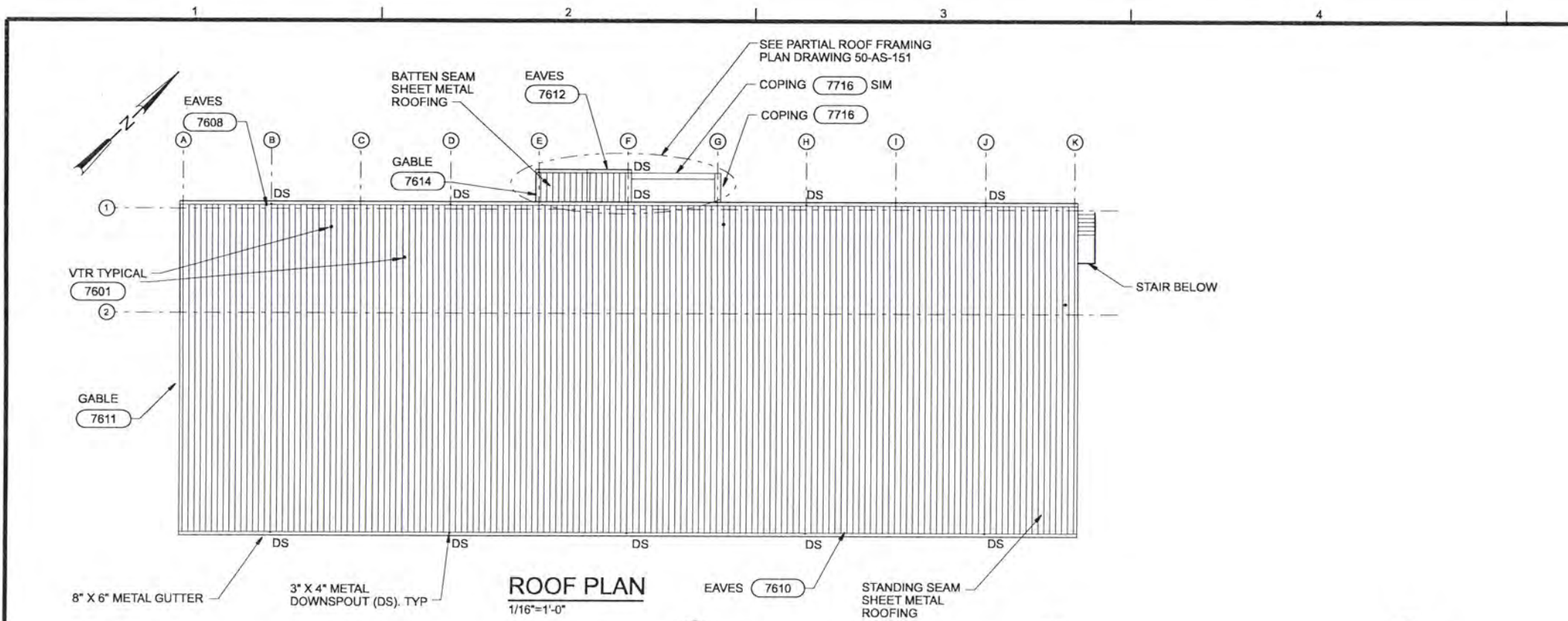
FILTRATION BUILDING
 ARCHITECTURAL / STRUCTURAL
 UPPER FLOOR PLAN
 AREA D

A	B
C	D

KEY PLAN

SHEET	161
DWG	50-AS-144
DATE	APRIL 2004
PROJ	170368

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CODE DATA (1997 UBC)		
OCCUPANCY:		
LOWER LEVEL:	ENTIRE FLOOR	F-2
UPPER LEVEL:	SODIUM HYPOCHLORITE ROOM	H-7
	LOBBY, ANALYZER ROOM, CONTROL ROOM	B
	RESTROOMS, JANITOR	
	MECHANICAL ROOM, ELECTRICAL ROOM, FLOURIDE ROOM	F-2
OCCUPANCY SEPARATION:		
UPPER LEVEL:	B TO F-2 (302.1 EXCEPTION 2.2)	0 HR
	F-2 TO H-7, MECHANICAL ROOMS TO ADJOINING ROOM	1 HR
CONSTRUCTION TYPE: II-N		
FIRE PROTECTION:		
LOWER LEVEL:	SPRINKLERING NOT REQUIRED	
UPPER LEVEL:	SPRINKLERING REQUIRED:	
	SODIUM HYPOCHLORITE ROOM (H-7)	
	SPRINKLERING PROVIDED (ELECTIVE):	
	LOBBY, ANALYZER ROOM, CONTROL ROOM, RESTROOMS, JANITOR (B); MECHANICAL ROOM, FLOURIDE ROOM (F-2)	
BASIC ALLOWABLE FLOOR PLAN AREA:		
	B	12,000 SQ. FT.
	F-2	18,000 SQ. FT.
	H-7	12,000 SQ. FT.
ACTUAL FLOOR AREA:		
LOWER LEVEL:	F-2	14,093 SQ. FT. (78.30%)
UPPER LEVEL:		
	B	1,519.66 SQ. FT. (12.66%)
	F-2	2,024.92 SQ. FT. (11.25%)
	H-7	1,186.75 SQ. FT. (9.89%)
	TOTAL:	4,731.33 SQ. FT. (33.80%)
BASIC ALLOWABLE HEIGHT:		
	B	2 STORIES, 55 FEET
	F-2	2 STORIES, 55 FEET
	H-7	2 STORIES, 55 FEET
ACTUAL HEIGHT: 1 STORY, 31 FEET		
OCCUPANT LOAD (CALCULATED):		
LOWER LEVEL:	F-2	47
UPPER LEVEL:	B	9 (DISCOUNTING RESTROOMS)
	F-2	7
	H-7	4
	TOTAL:	20
OCCUPANT LOAD (ACTUAL)		
		2

RECORD DRAWINGS

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DSGN	JE CAVE											
DR	WB LOVE											
CHK	EB PIETERICK											
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD						

- NOTES:**
1. ALL CEILINGS AT 9'-0" AFF, UNLESS NOTED OTHERWISE.
 2. HEADER AT HEIGHT TO SUIT SHOWER COMPARTMENT.
 3. GWB SOFFIT @ 7'-6" AFF. FRAME WITH 3 5/8" METAL STUDS @ 16" OC.
 4. GWB CEILING @ 9'-0" AFF. FRAME WITH 3 5/8" METAL STUDS @ 16" O.C.
 5. FURRED WALLS TERMINATE AT METAL DECK.
 6. PARTITION WALLS TERMINATE AT 10'-0" AFF.

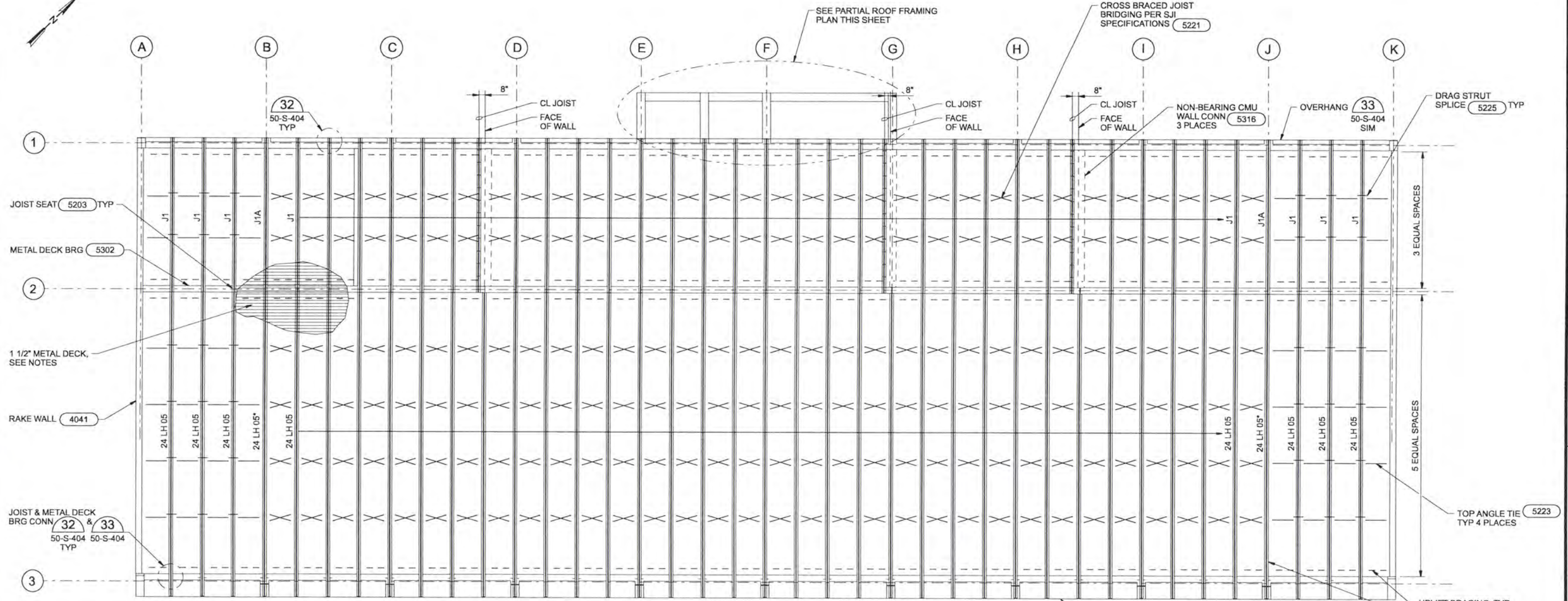


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ARCHITECTURAL
 ROOF PLAN AND
 REFLECTED CEILING PLANS

SHEET	162
DWG	50-A-150
DATE	APRIL 2004
PROJ	170368

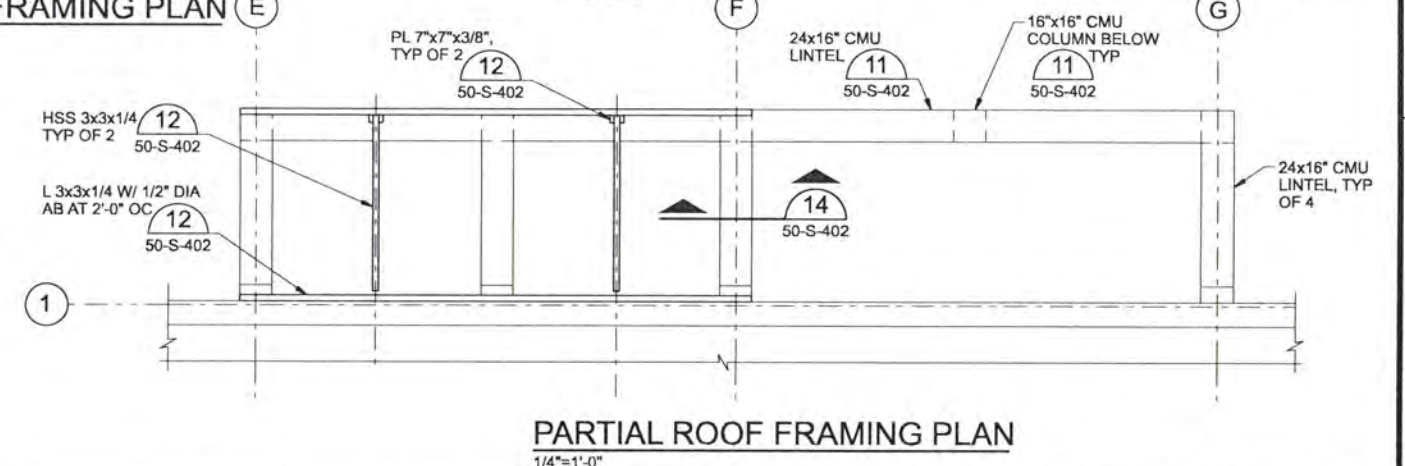
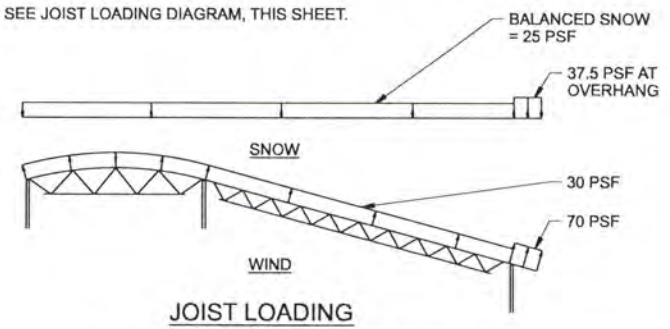
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- NOTES:**
- DESIGN LOADS:
 - ROOF LIVE LOAD = 25 PSF
 - FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 01-G-005 & 01-G-006.
 - ROOF DECKING NOTES:
 - ROOF DECK SHALL BE 1 1/2" x 20 GAGE GALVANIZED STEEL ROOF DECKING WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
 $I = 0.212 \text{ IN}^4$
 $S+ = 0.234 \text{ IN}^3$
 $S- = 0.247 \text{ IN}^3$
 - ROOF DECK SHALL BE ATTACHED TO ALL SUPPORTS AS FOLLOWS:
 - SUPPORTS PERPENDICULAR TO DECK SPAN: 7 - 5/8" DIAMETER PUDDLE WELDS PER 36" WIDE PANEL (MINIMUM), UNO
 - SUPPORTS PARALLEL TO DECK SPAN: 5/8" DIAMETER PUDDLE WELDS AT 12" ON CENTER (MINIMUM)
 - DECK SEAMS PARALLEL TO DECK SPAN: TOP SEAM WELD AT 8" ON CENTER (MINIMUM)

- WELD ROOF DECK TO OPENING FRAMING AND MISCELLANEOUS FRAMING WITH 5/8" DIAMETER PUDDLE WELDS AT 6" ON CENTER MAXIMUM, BUT NOT LESS THAN 3 WELDS PER MEMBER.
- FASTENING OF DECK SHALL DEVELOP A MINIMUM OF 330 POUNDS PER FOOT.
- DESIGN JOIST J1A FOR ADDITIONAL AXIAL COMPRESSION OR TENSION OF 7.0 KIPS.
- SEE JOIST LOADING DIAGRAM, THIS SHEET.

ROOF FRAMING PLAN
1/8"=1'-0"



PARTIAL ROOF FRAMING PLAN
1/4"=1'-0"

RECORD DRAWINGS
Revisions Drawn By JMD Date 6/2006
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DSGN	MJ MERKLEIN		
DR	KJ DAVIS		
CHK	SM FREY	6/2006	RECORD DRAWING
APVD	CW MASSIE	NO.	DATE

NO.	DATE	REVISION

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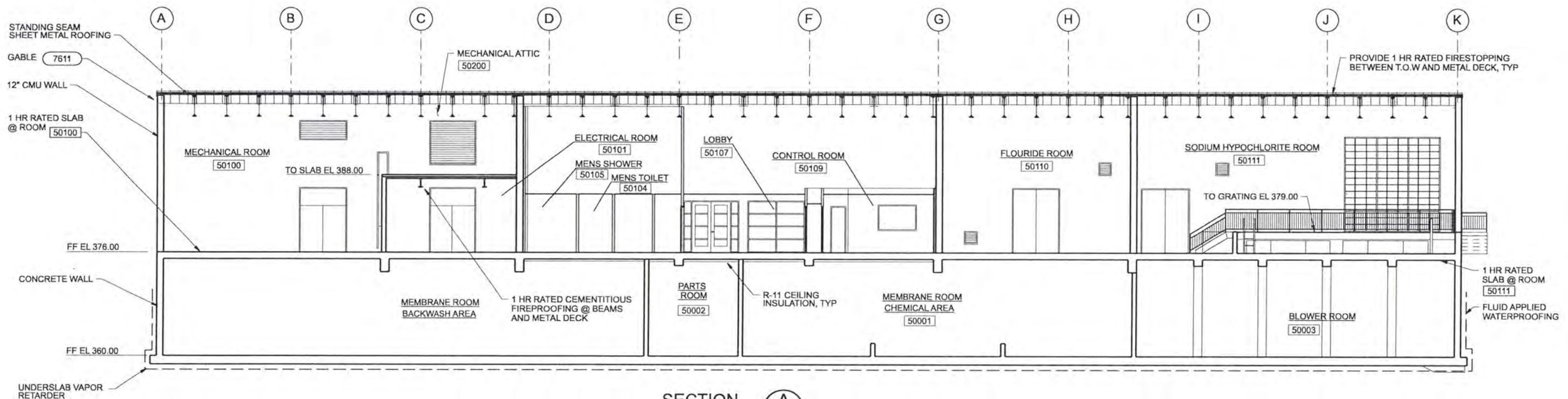


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

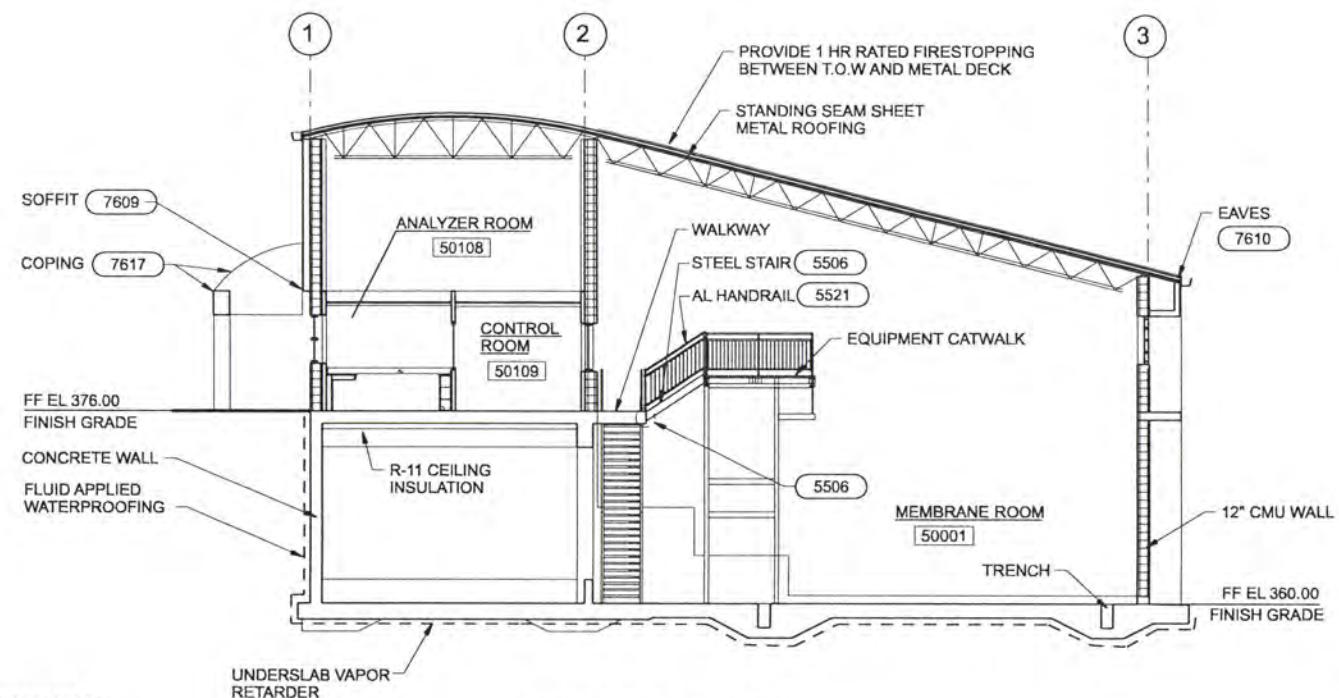
FILTRATION BUILDING
STRUCTURAL
ROOF FRAMING PLAN

SHEET	163
DWG	50-S-151
DATE	APRIL 2004
PROJ	170368

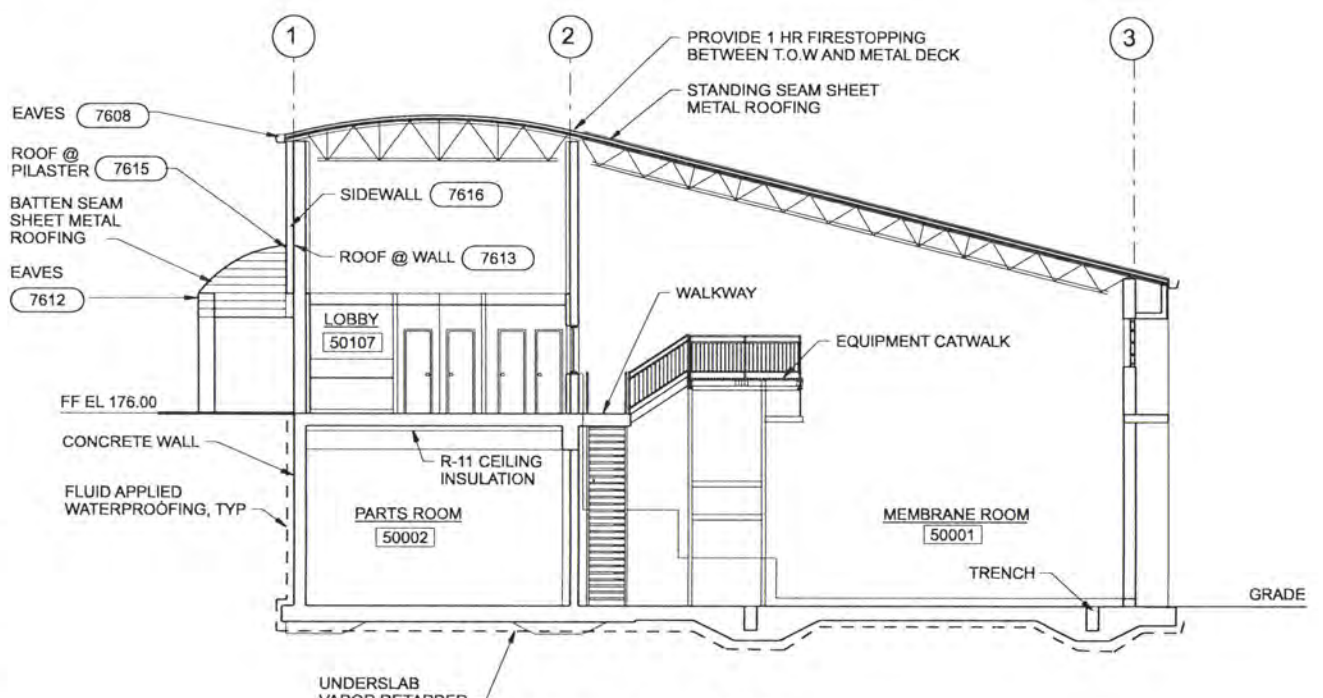
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SECTION A
1/8"=1'-0"
50-AS-130
50-AS-140



SECTION B
1/8"=1'-0"
50-AS-130
50-AS-140



SECTION C
1/8"=1'-0"
50-AS-130
50-AS-140

RECORD DRAWINGS

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DRG	DR	CHK	APVD	NO.	DATE	REVISION	BY	APVD	VERIFY SCALE
DR	KJ DAVIS	SM FREY	CW MASSIE		6/2006	RECORD DRAWING	JMD	RCF	BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

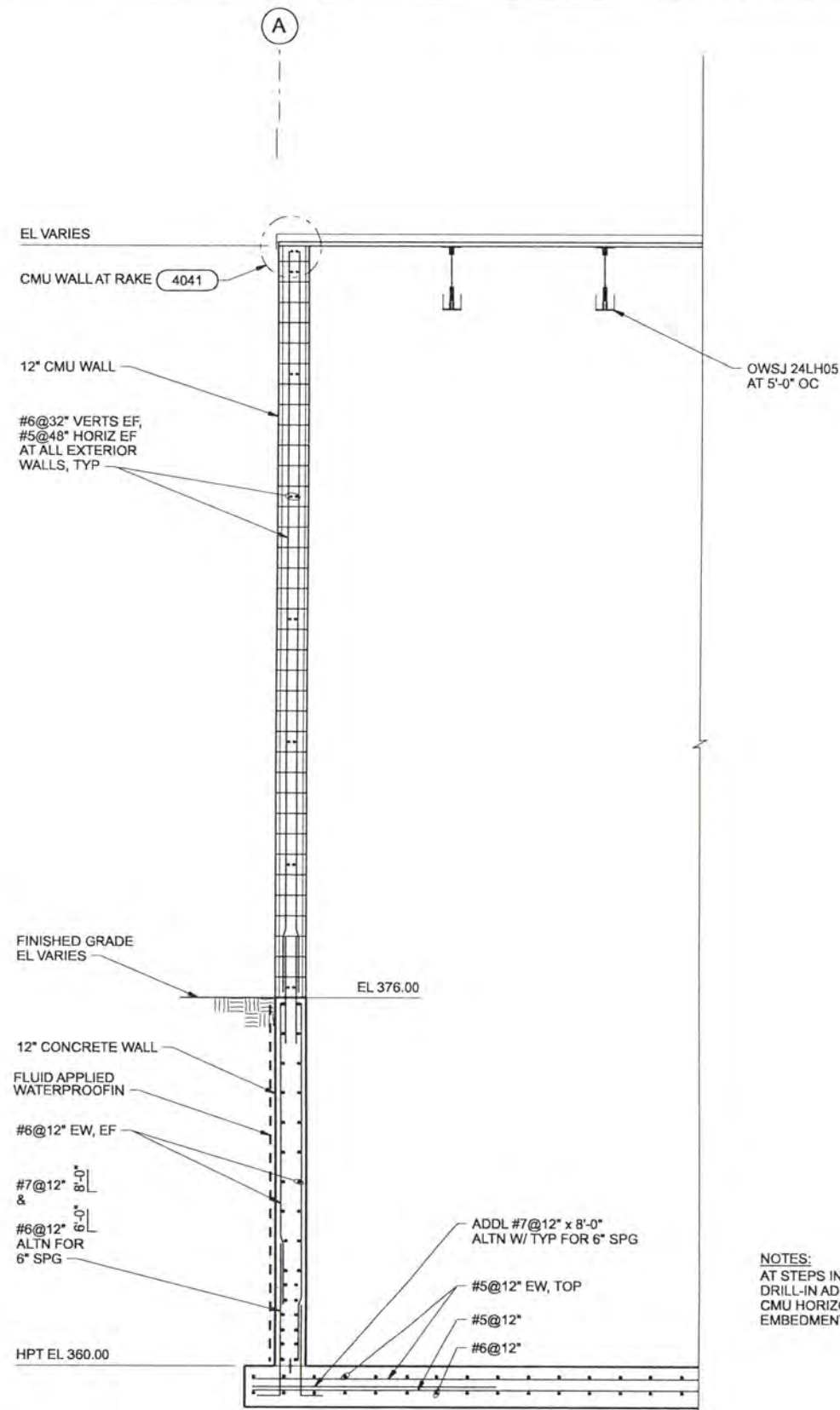


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
ARCHITECTURAL / STRUCTURAL
SECTIONS

SHEET	164
DWG	50-AS-201
DATE	APRIL 2004
PROJ	170368

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NOTES:
 AT STEPS IN CONCRETE WALL, PROVIDE DRILL-IN ADHESIVE DOWELS FOR TYPICAL CMU HORIZONTAL REINFORCING (5" EMBEDMENT).

SECTION D
 3/8"=1'-0" 50-AS-133
 50-AS-143
 50-AS-151

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	MJ MERKLEIN						
DR	KJ DAVIS						
CHK	SM FREY	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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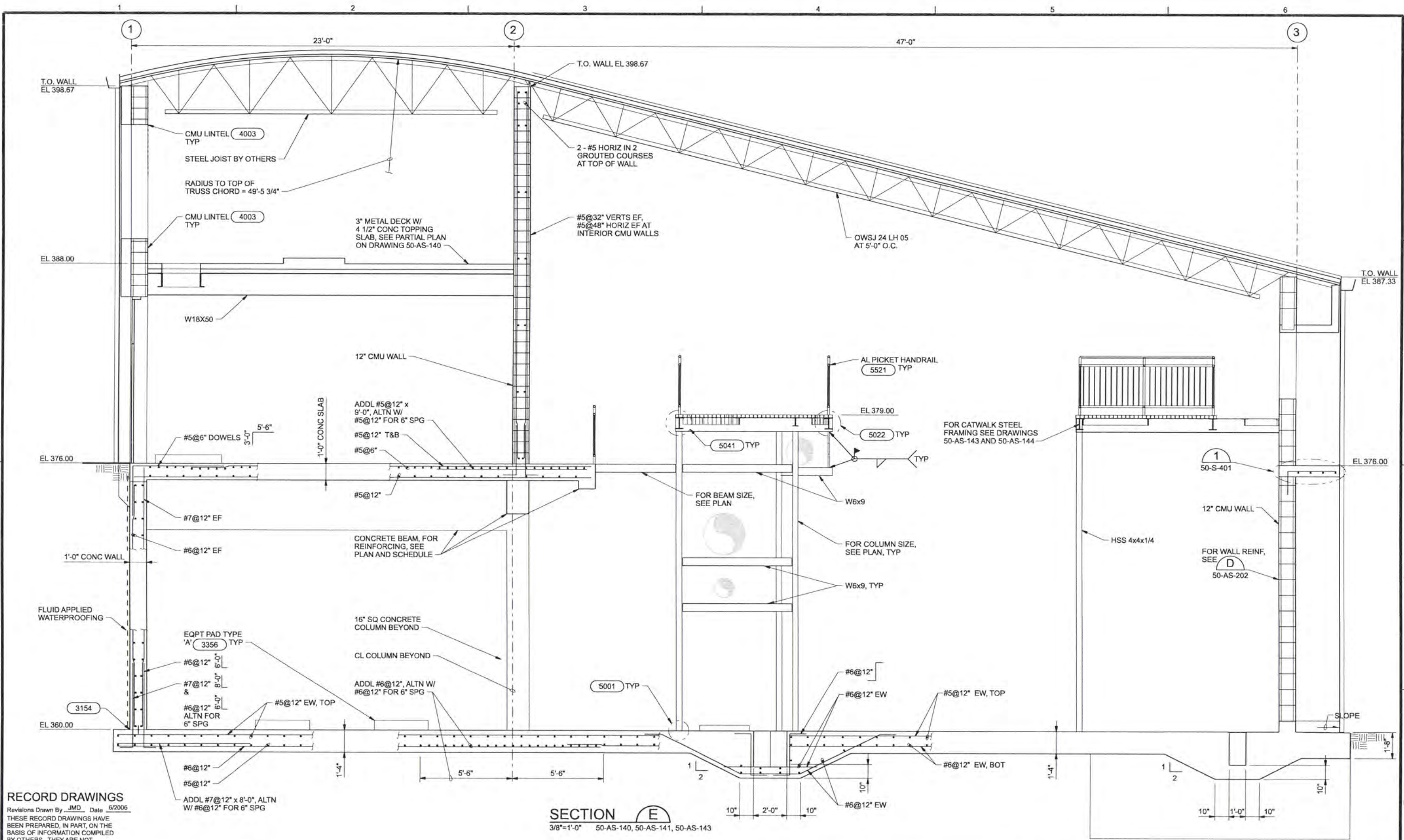


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 STRUCTURAL
 SECTION

SHEET	165
DWG	50-AS-202
DATE	APRIL 2004
PROJ	170368

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DESIGN	MJ MERKLEIN				
DR	KJ DAVIS				
CHK	SM FREY	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

SECTION E
 3/8"=1'-0" 50-AS-140, 50-AS-141, 50-AS-143

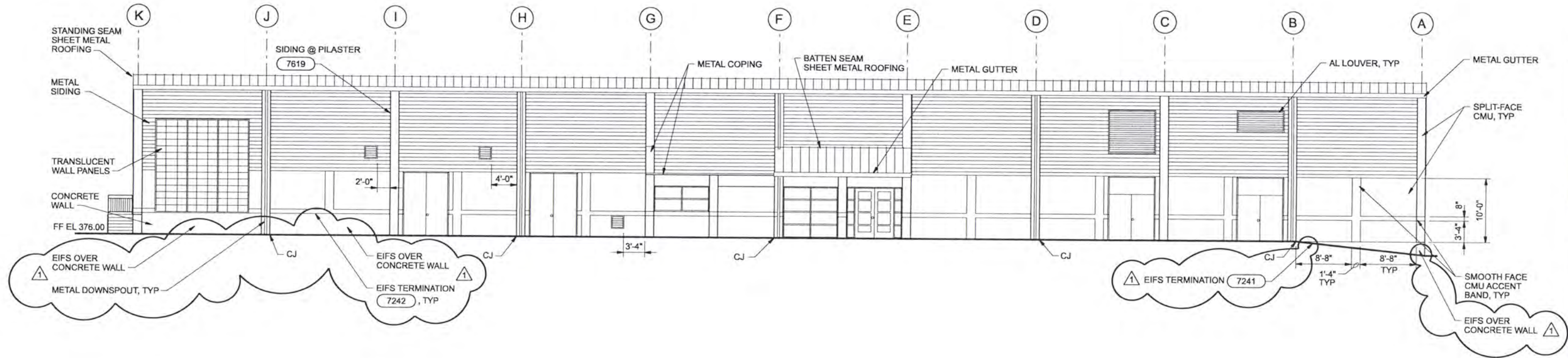


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

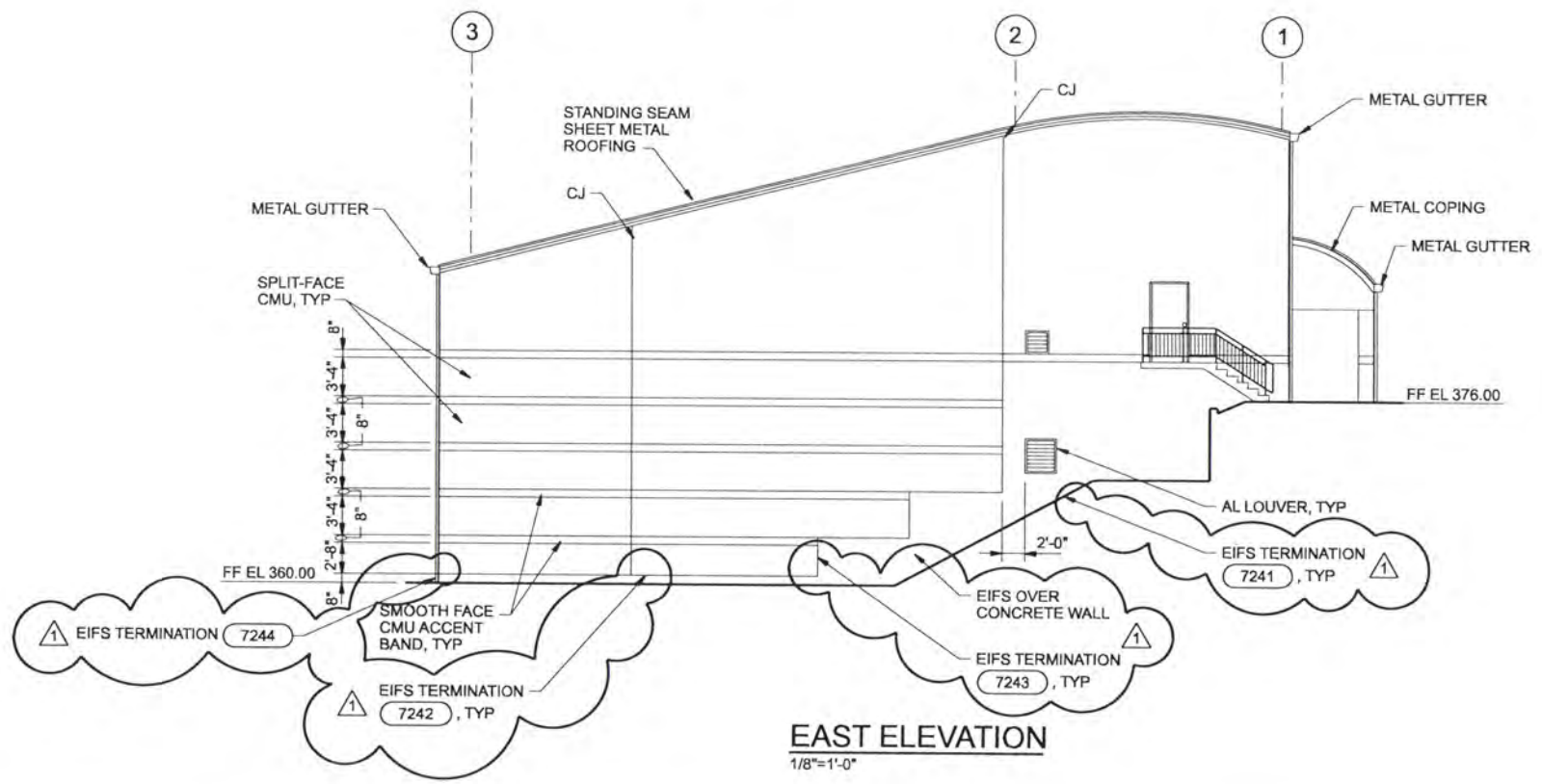
FILTRATION BUILDING
 STRUCTURAL
 SECTION

SHEET	166
DWG	50-AS-203
DATE	APRIL 2004
PROJ	170368

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NORTH ELEVATION
1/8"=1'-0"



EAST ELEVATION
1/8"=1'-0"

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DSGN	JE CAVE		6/2006 RECORD DRAWING	NO. DATE REVISION	JWB BEG BY APVD
DR	WB LOVE				
CHK	EB PIETERICK				
APVD	CW MASSIE				

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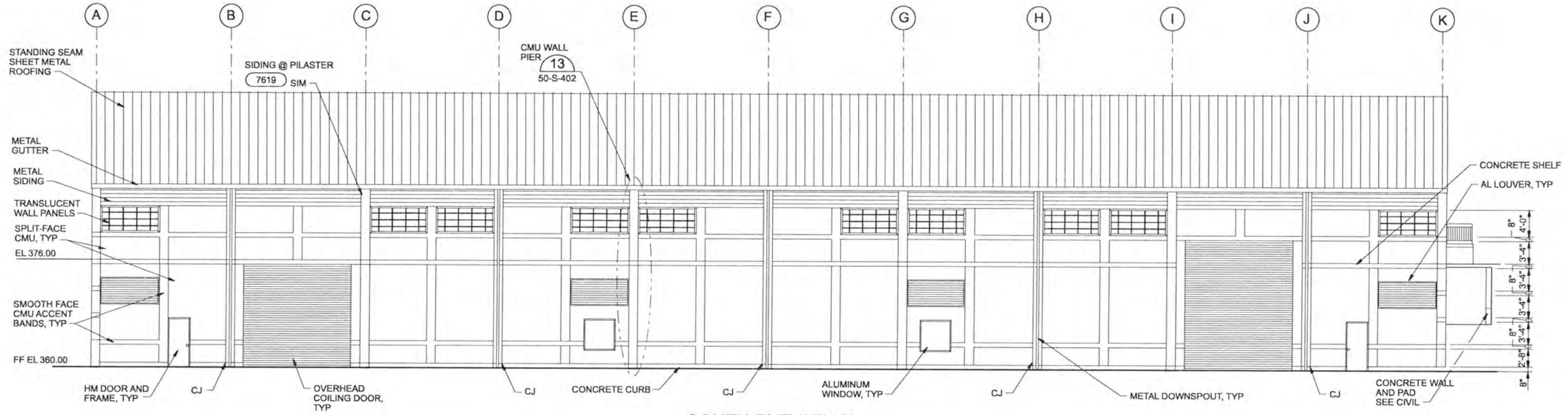


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

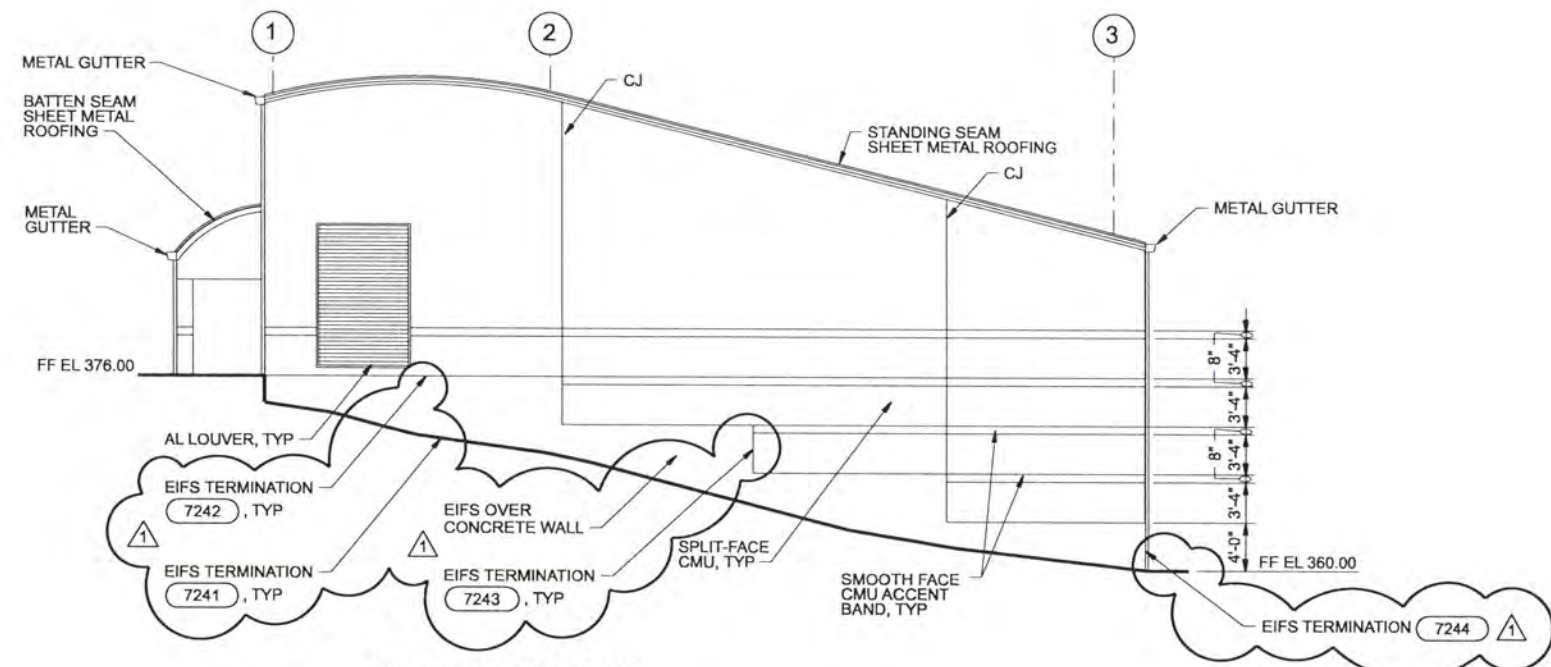
FILTRATION BUILDING
 ARCHITECTURAL
 ELEVATIONS

SHEET	167
DWG	50-A-301
DATE	APRIL 2004
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SOUTH ELEVATION
1/8"=1'-0"



WEST ELEVATION
1/8"=1'-0"

RECORD DRAWINGS

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DSGN	JE CAVE	NO.	DATE	REVISION	BY	APVD
DR	WB LOVE					
CHK	E B PIETERICK					
APVD	CW MASSIE					

VERIFY SCALE
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 0 1"
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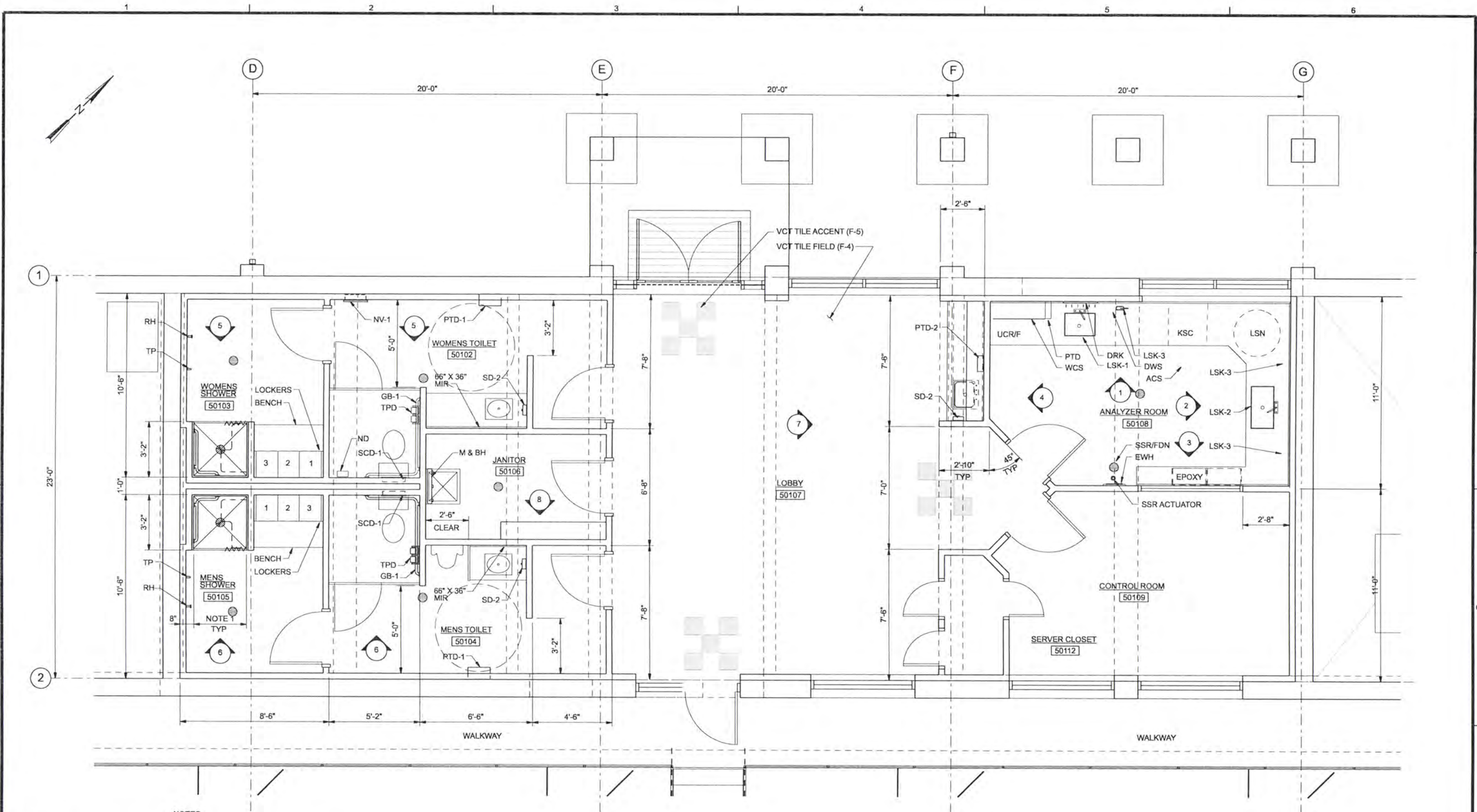


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ARCHITECTURAL
 ELEVATIONS

SHEET	168
DWG	50-A-302
DATE	APRIL 2004
PROJ	170368

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- NOTES:
1. VERIFY ROUGH OPENING WITH HANDICAPPED SHOWER MANUFACTURER
 2. FOR INTERIOR ELEVATIONS, SEE DWGS 50-A-402/403

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	JE CAVE				
DR	WB LOVE				
CHK	EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

VERIFY SCALE
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 0" = 1"
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PARTIAL FLOOR PLAN
 3/8"=1'-0"



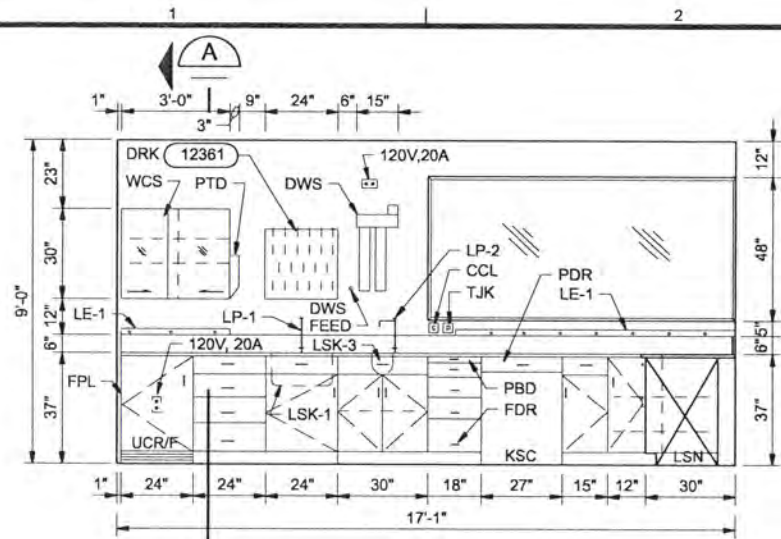
50-AS-140
 50-AS-141
 50-AS-142

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 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

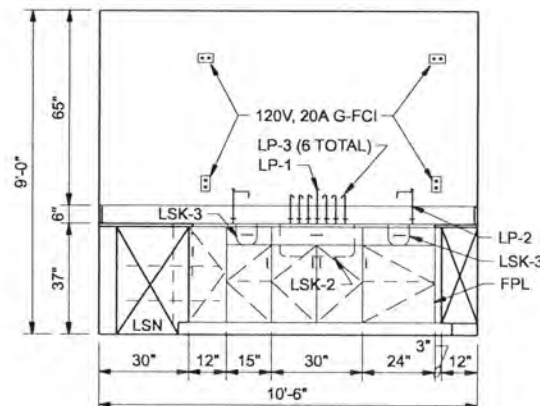
FILTRATION BUILDING
 ARCHITECTURAL
 PARTIAL FLOOR PLAN

SHEET	169
DWG	50-A-401
DATE	APRIL 2004
PROJ	170368

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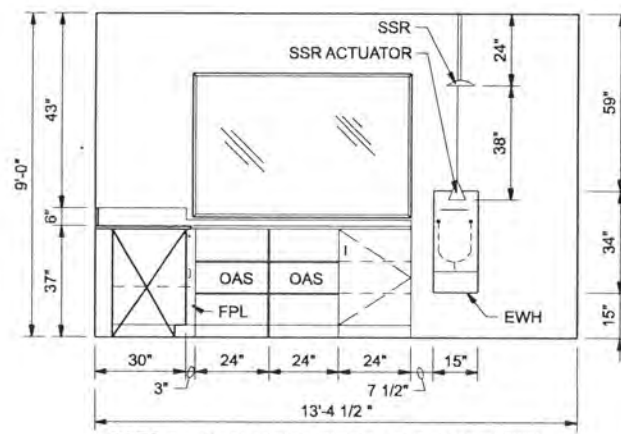
ANALYZER ROOM ELEVATION 1
3/8"=1'-0" NORTH



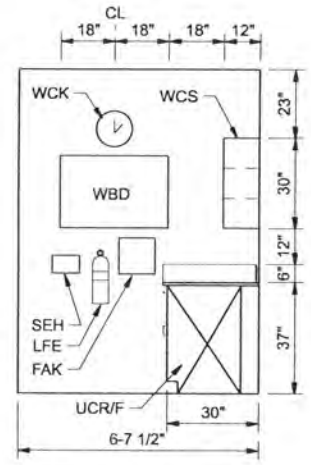
NOTES:
1. LP-3 = 3" BETWEEN
2. MOUNT PROCESS ANALYZERS THIS WALL;
PLUMB ANALYZER DRAIN
TO NEAREST LSK-3

ANALYZER ROOM DESIGN ABBREVIATIONS	
ACS	ADJUSTABLE CHAIR / STOOL, COUNTER HEIGHT
CCL	COMPUTER CABLE LEGEND
DRK	DRAIN RACK
DWS	DEIONIZED WATER SYSTEM
DWS FEED	DWS TAP WATER SUPPLY, BALL VALVE & 1/4" CONNECTION
EPOXY	EPOXY RESIN (COUNTER TOP)
EWH	EYE WASH WALL MOUNT
FAK	FIRST AID KIT
FDN	FLOOR DRAIN
FDR	FILE DRAWER
FPL	FILLER PANEL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
KSC	KNEE SPACE
LE-1	MULTI-OUTLET ASSEMBLY (PLUG MOLD), GFCI PROTECTED
LFE	LAB FIRE EXTINGUISHER
LP-1	HOT/COLD WATER (MIXING FAUCET) (DECK)
LP-2	COLD WATER (DECK)
LP-3	SAMPLE FAUCET (DECK)
LSK-1	LAB SINGLE EPOXY RESIN SINK
LSK-2	LAB SINGLE EPOXY RESIN SAMPLE SINK W/ SPLASH SCREEN
LSK-3	LAB CUP SINK
LSN	LAZY SUSAN
OAS	OPEN ADJUSTABLE SHELVES
PBD	PULLBOARD
PDR	PENCIL DRAWER (KNEE SPACE)
PTD	PAPER TOWEL DISPENSER
SEH	SAFETY EYEWEAR HOLDER
SSR	SAFETY SHOWER
SSR/FDN	SAFETY SHOWER OVER FLOOR DRAIN
TJK	TELEPHONE JACK LEGEND
UCR/F	UNDER COUNTER REFRIGERATOR/FREEZER
WBD	WRITING BOARD (WHITE BOARD)
WCK	WALL CLOCK
WCS	WALL CASE (SLIDING GLASS DOORS)

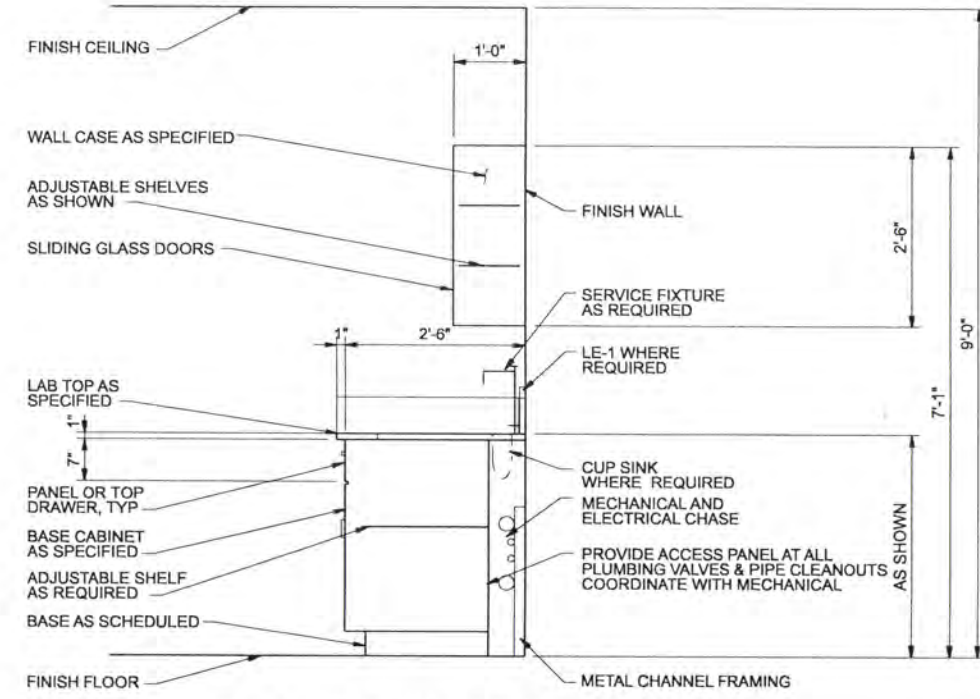
ABBREVIATIONS FOR PLANS, SPECIFICATIONS, AND OTHER SCHEDULES.



NOTE: 1. TRIM BACKSPLASH TO FIT UNDER WINDOW
ANALYZER ROOM ELEVATION 3
3/8"=1'-0" SOUTH



ANALYZER ROOM ELEVATION 4
3/8"=1'-0" WEST



NOTE: 1. REFER TO SPECIFICATIONS SECTION 12345 FOR ADDITIONAL CONSTRUCTION INFORMATION

LAB CABINET SECTION
3/4"=1'-0"

RECORD DRAWINGS

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DR	WB LOVE								
CHK	EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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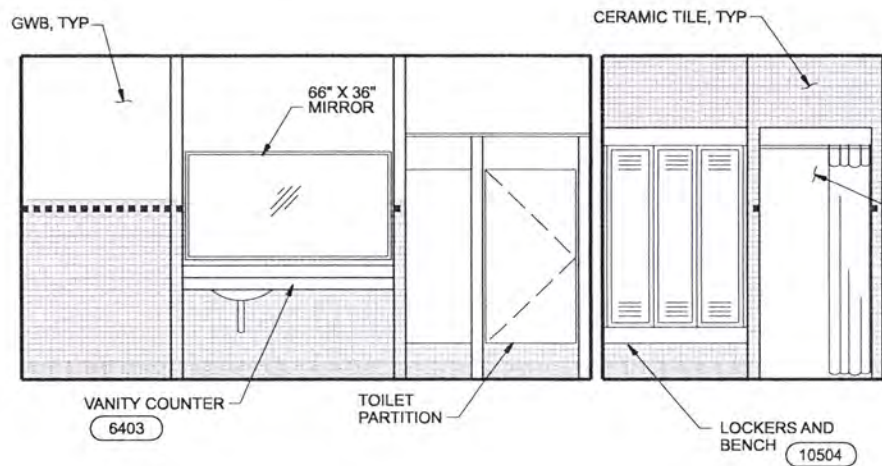


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

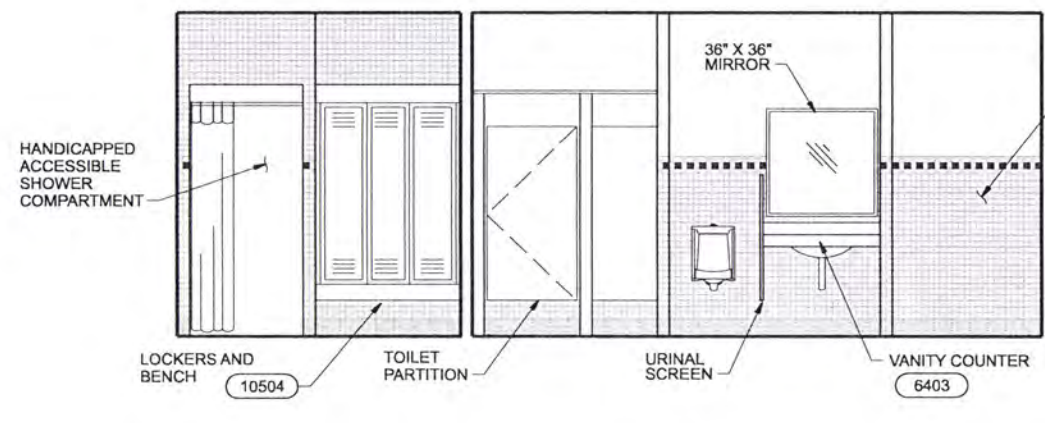
ALBANY-MILLERSBURG
ARCHITECTURAL
ANALYZER ROOM INTERIOR ELEVATIONS

SHEET	170
DWG	50-A-402
DATE	APRIL 2004
PROJ	170368

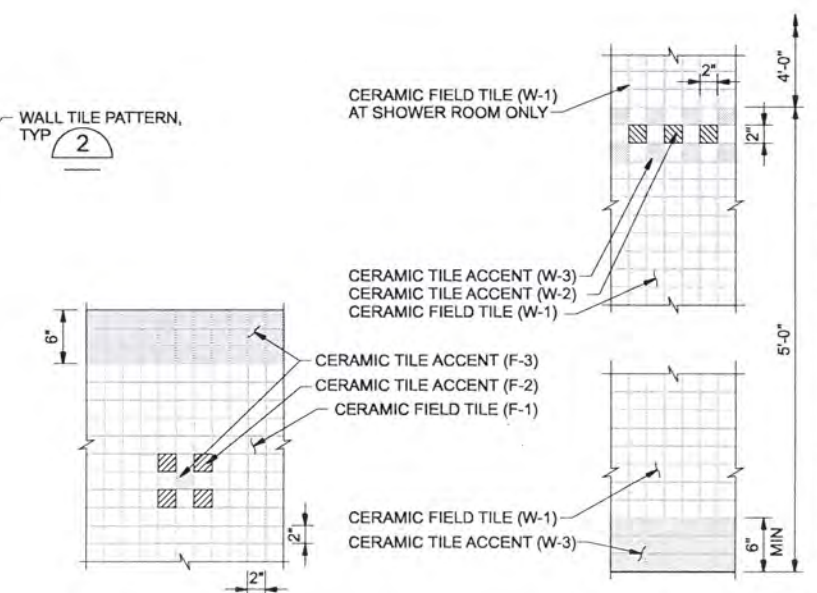
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ROOMS 50102 & 50103 ELEVATION 5
3/8"=1'-0" 50-A-401

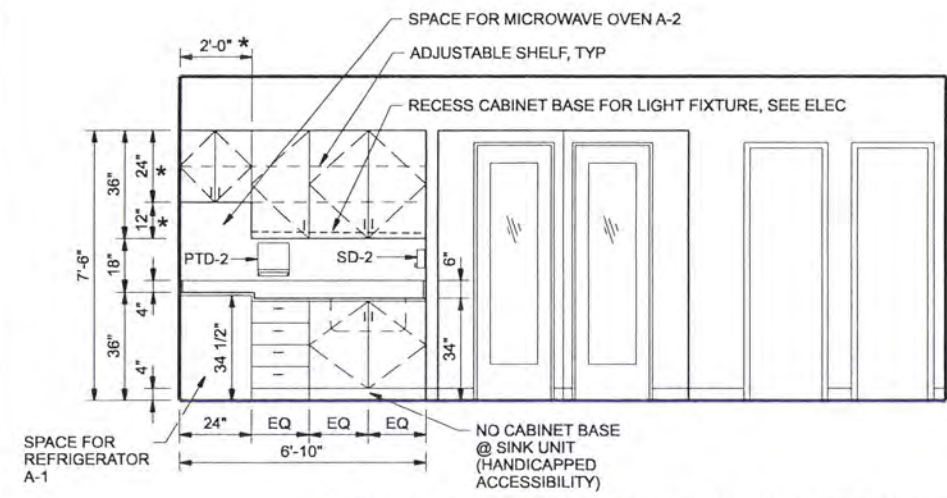


ROOMS 50104 & 50105 ELEVATION 6
3/8"=1'-0" 50-A-401



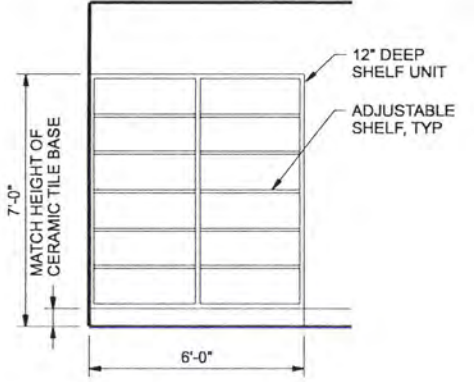
FLOOR TILE PATTERN 1
NTS

WALL TILE PATTERN 2
NTS

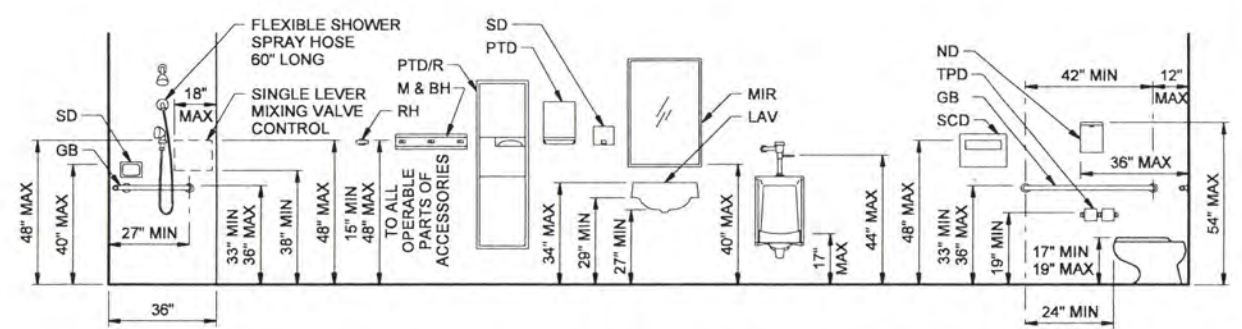


NOTE: * VERIFY DIMENSION WITH MICROWAVE OVEN AND REFRIGERATOR

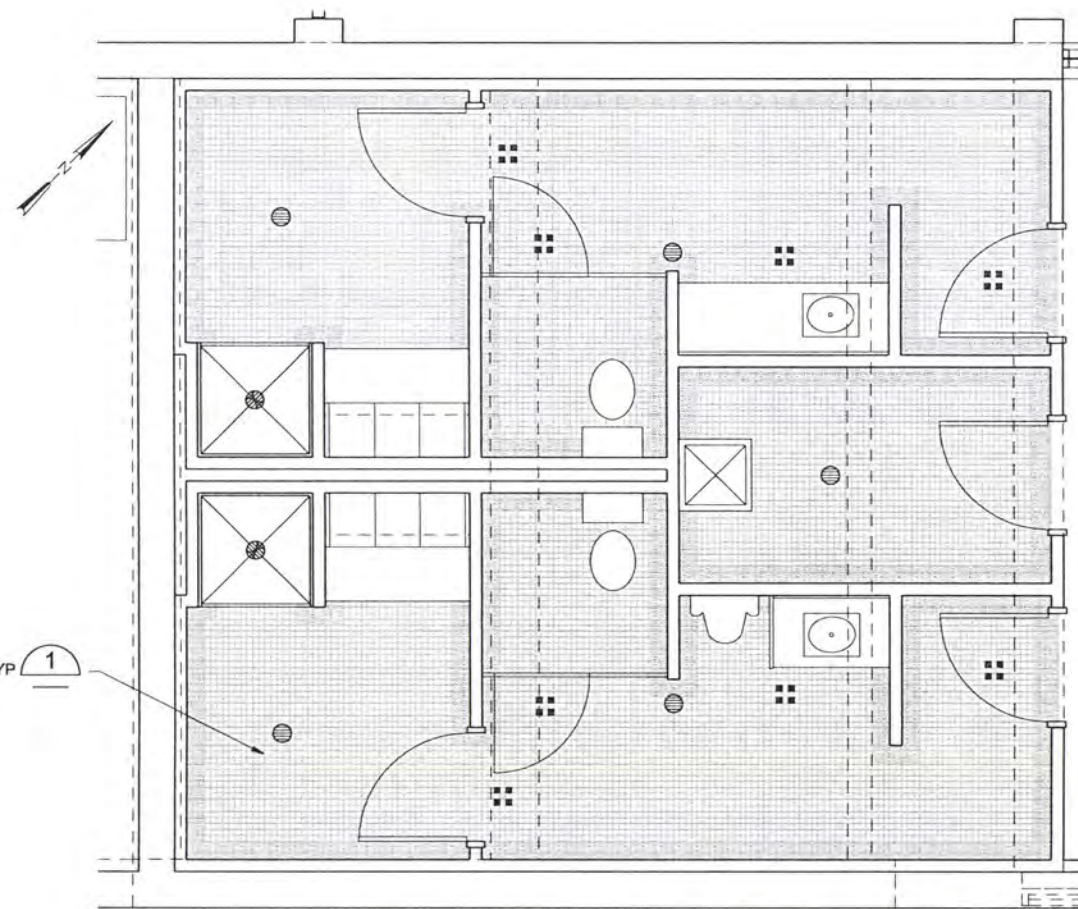
ROOM 50107 ELEVATION 7
3/8"=1'-0" 50-A-401



ROOM 50106 ELEVATION 8
3/8"=1'-0" 50-A-401



STANDARD ACCESSIBLE FIXTURE MOUNTING LOCATIONS



PARTIAL FLOOR PLAN: TILE PATTERN
3/8"=1'-0"

RECORD DRAWINGS

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DSGN	JE CAVE									
DR	WB LOVE									
CHK	EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD				

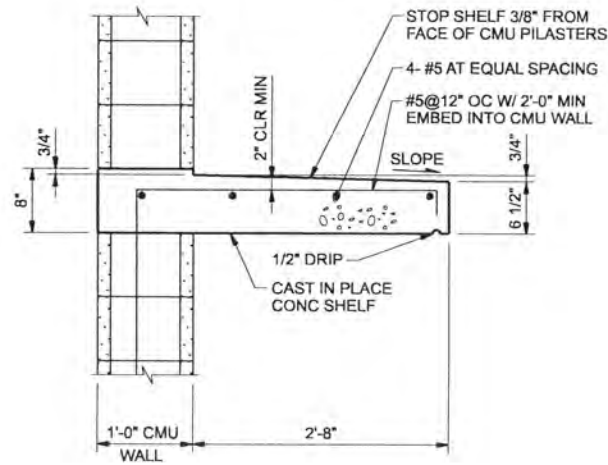


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JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

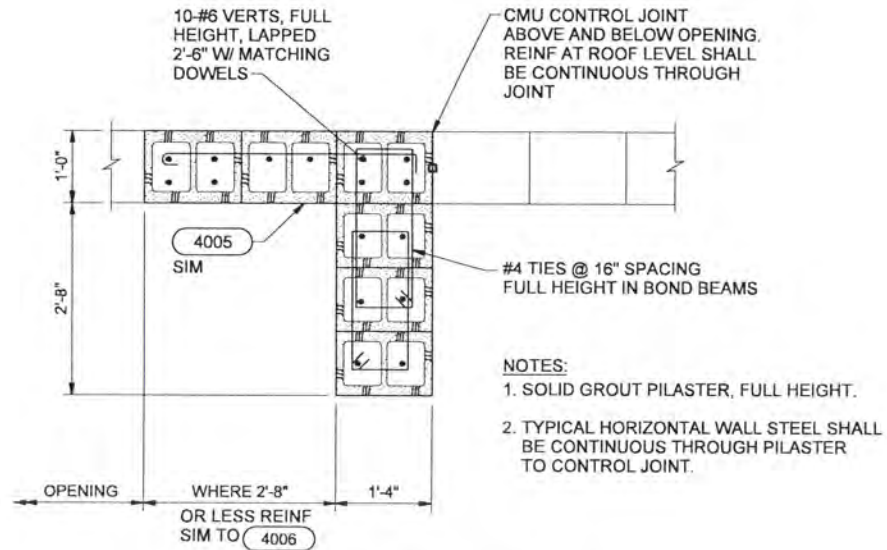
FILTRATION BUILDING
ARCHITECTURAL
INTERIOR ELEVATIONS AND
PARTIAL FLOOR PLAN

SHEET	171
DWG	50-A-403
DATE	APRIL 2004
PROJ	170368

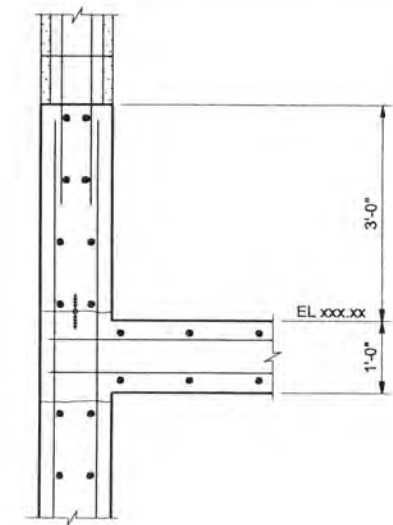
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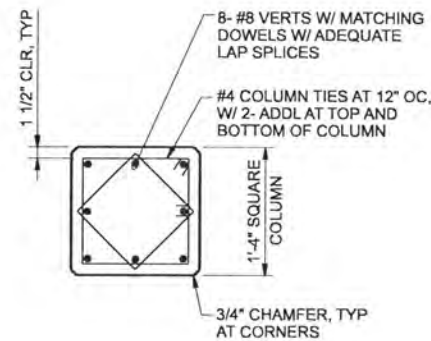
SECTION
DETAIL 1
1"=1'-0"
50-AS-143
50-AS-144



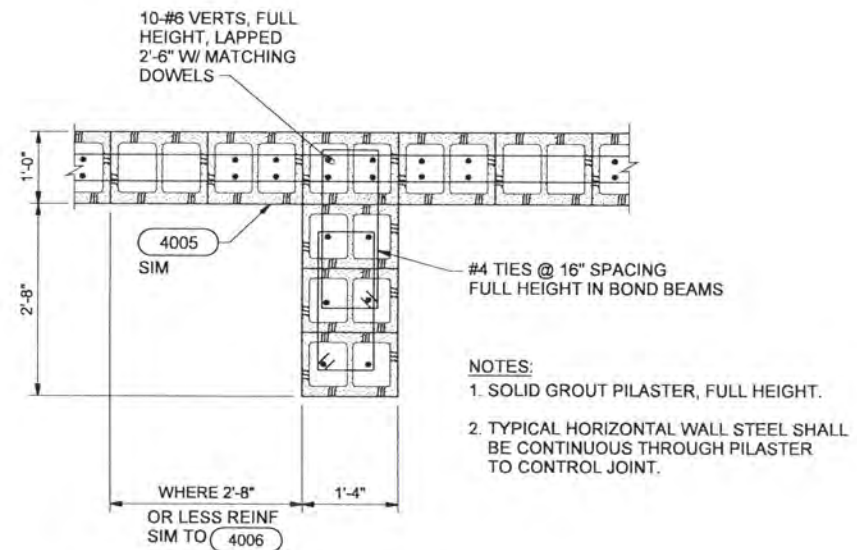
CMU PILASTER AT CONTROL JOINT



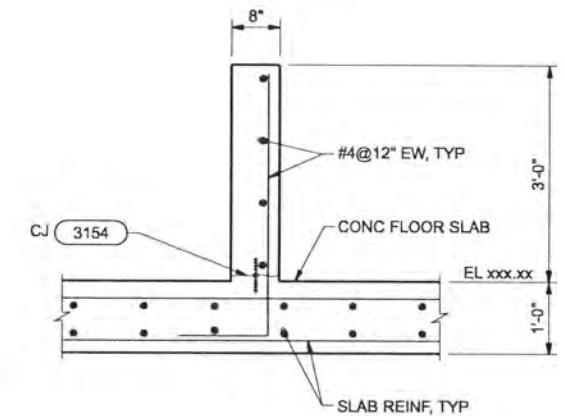
SECTION
DETAIL 4
3/4"=1'-0"
50-AS-142



PLAN
COLUMN DETAIL 2
1"=1'-0"
50-AS-131
50-AS-132



TYPICAL OR CORNER PILASTER



SECTION
DETAIL 5
3/4"=1'-0"
50-AS-142

PILASTER DETAILS 3
3/4"=1'-0"
50-AS-131, 50-AS-132
50-AS-133, 50-AS-134
50-AS-141, 50-AS-142
50-AS-143, 50-AS-144

RECORD DRAWINGS

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DSGN	M EL-HAKIM						
DR	KJ DAVIS						
CHK	MJ MERKLEIN	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

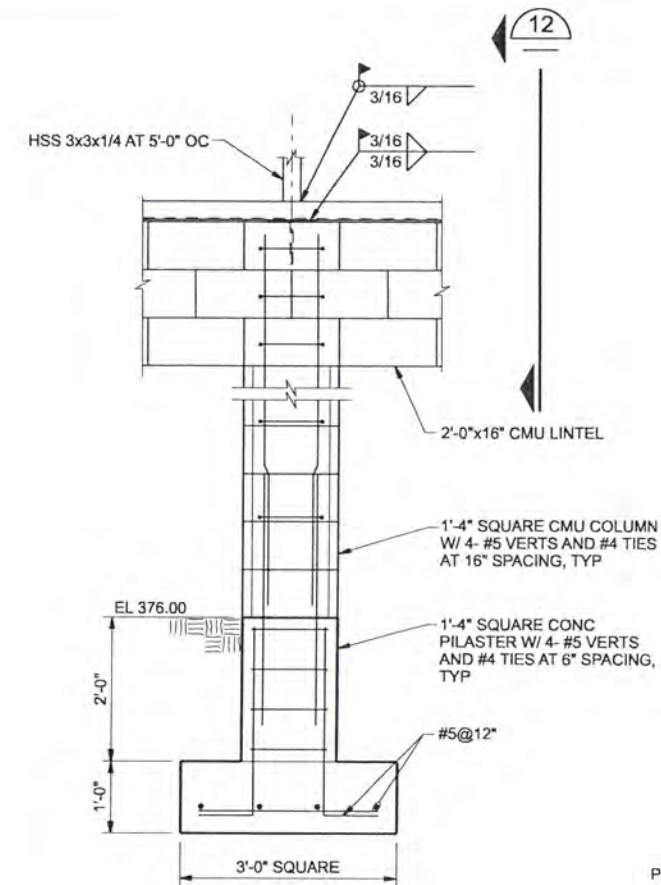
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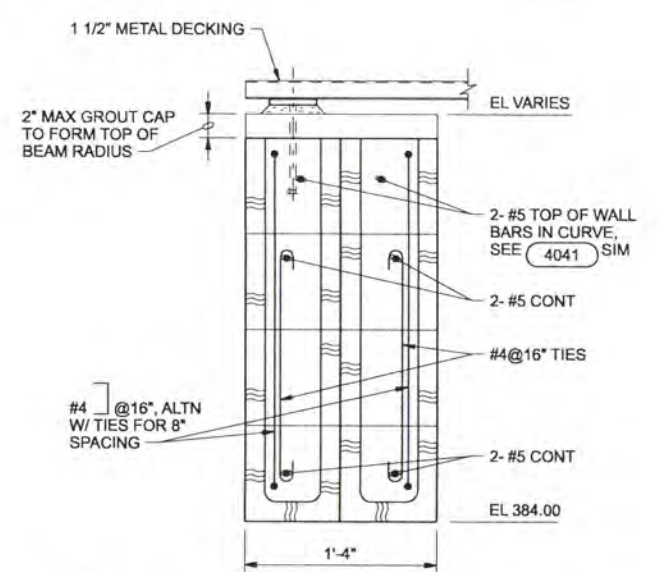
ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
STRUCTURAL
DETAILS

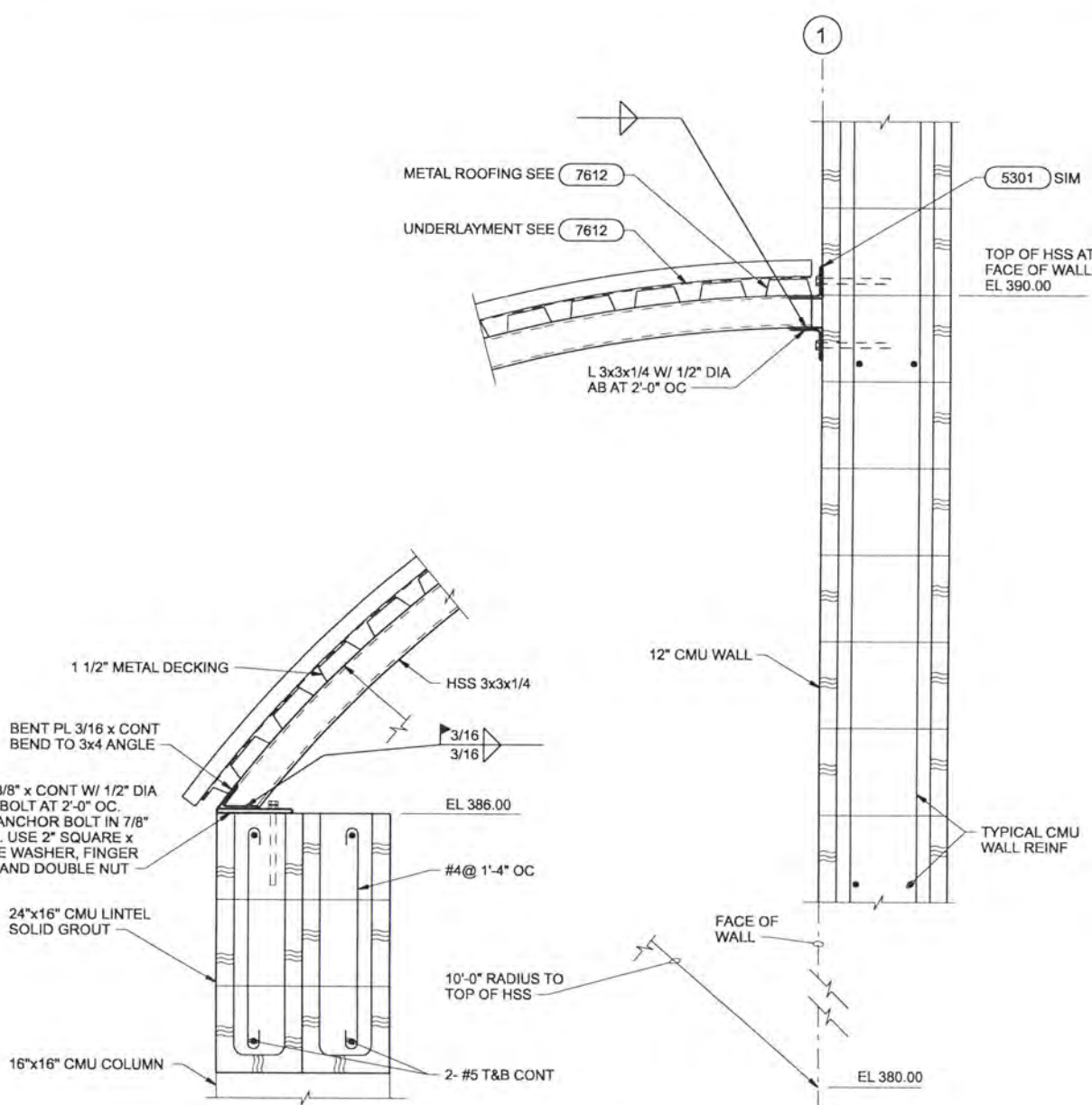
SHEET	172
DWG	50-S-401
DATE	APRIL 2004
PROJ	170368



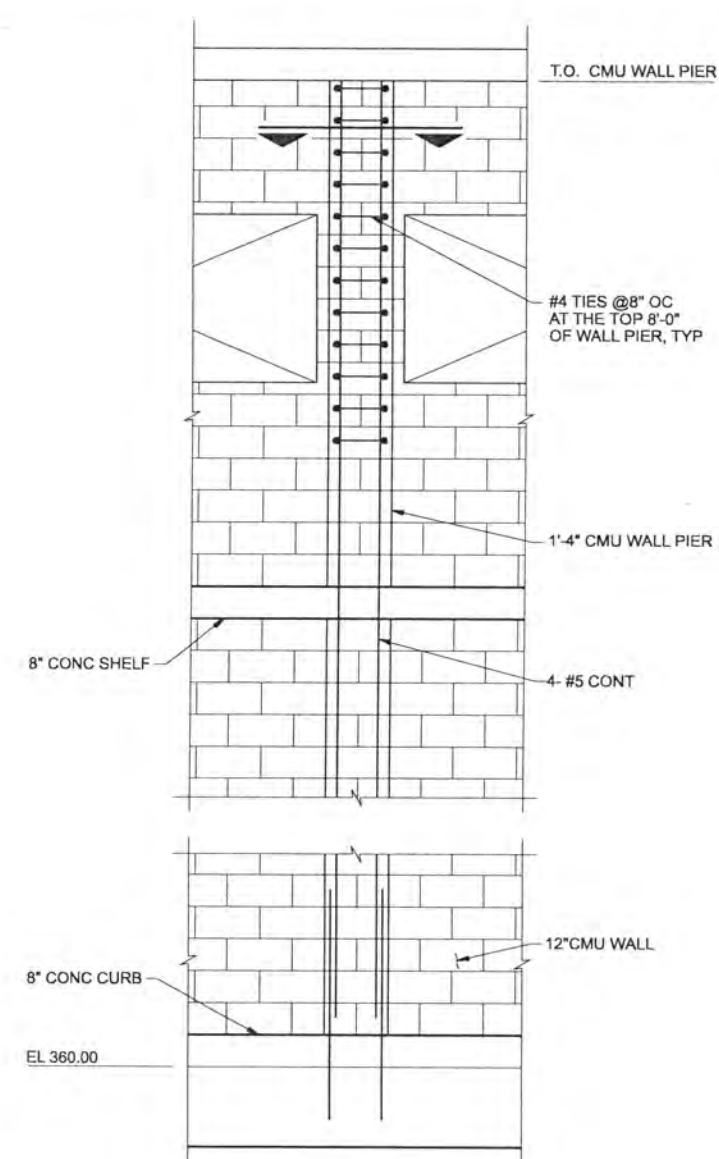
CMU COLUMN AND FOOTING 11
 3/4"=1'-0"
 50-AS-141
 50-AS-142



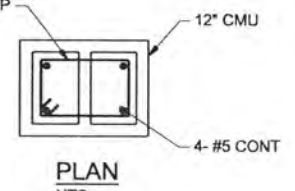
CMU BEAM 14
 1 1/2"=1'-0"
 50-AS-151



ENTRY ROOF FRAMING DETAIL 12
 1 1/2"=1'-0"



CMU WALL PIER 13
 1/2"=1'-0"
 50-AS-143, 50-AS-144
 50-A-302



RECORD DRAWINGS

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DR	KJ DAVIS						
CHK	MJ MERKLEIN	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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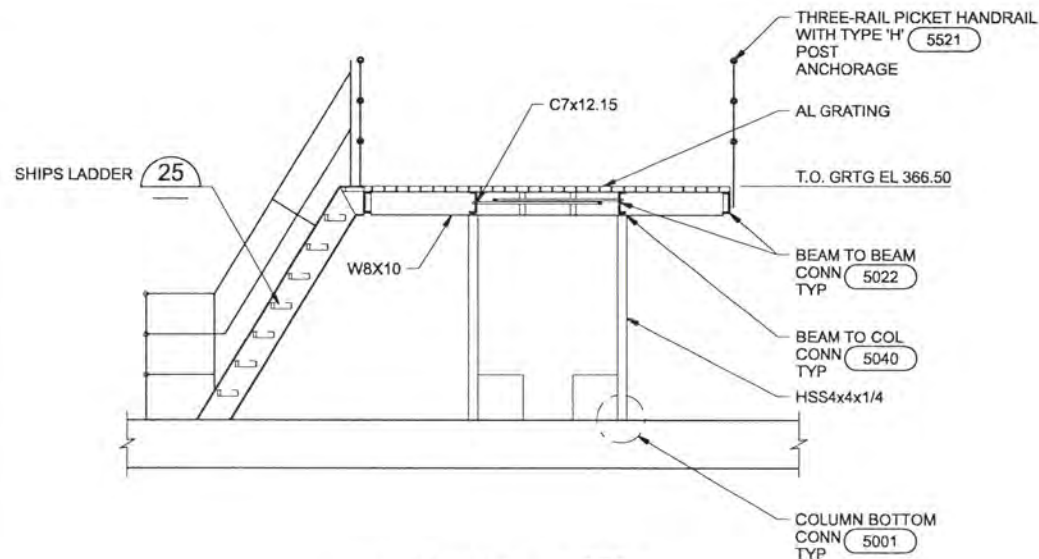


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

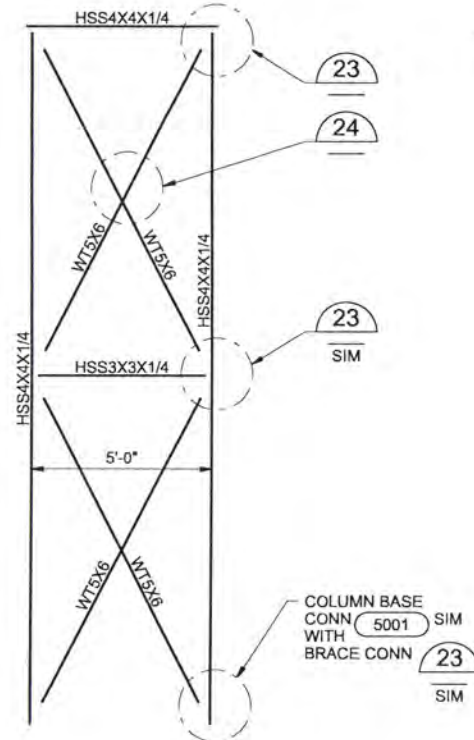
FILTRATION BUILDING
 STRUCTURAL
 DETAILS

SHEET	173
DWG	50-S-402
DATE	APRIL 2004
PROJ	170368

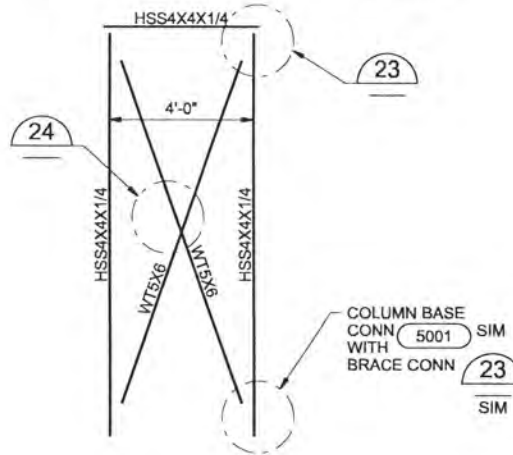
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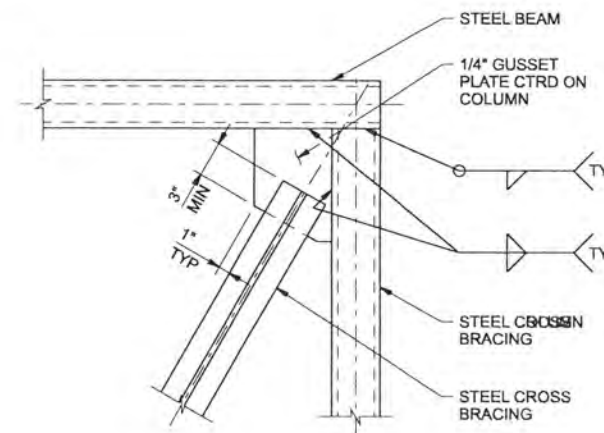
SECTION A
3/8"=1'-0" 50-AS-144



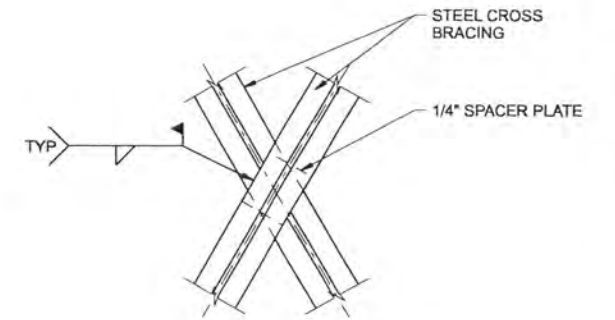
PIPE SUPPORT DETAIL 21
3/8"=1'-0" 50-AS-134 50-AS-144



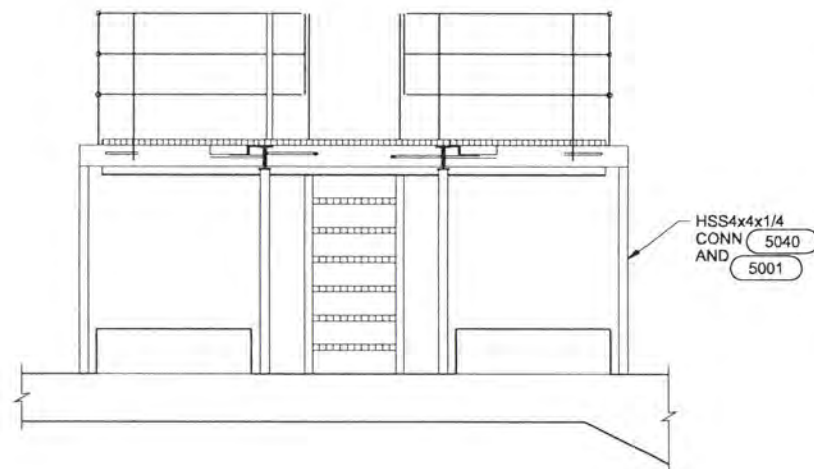
PIPE SUPPORT DETAIL 22
3/8"=1'-0" 50-AS-134 50-AS-144



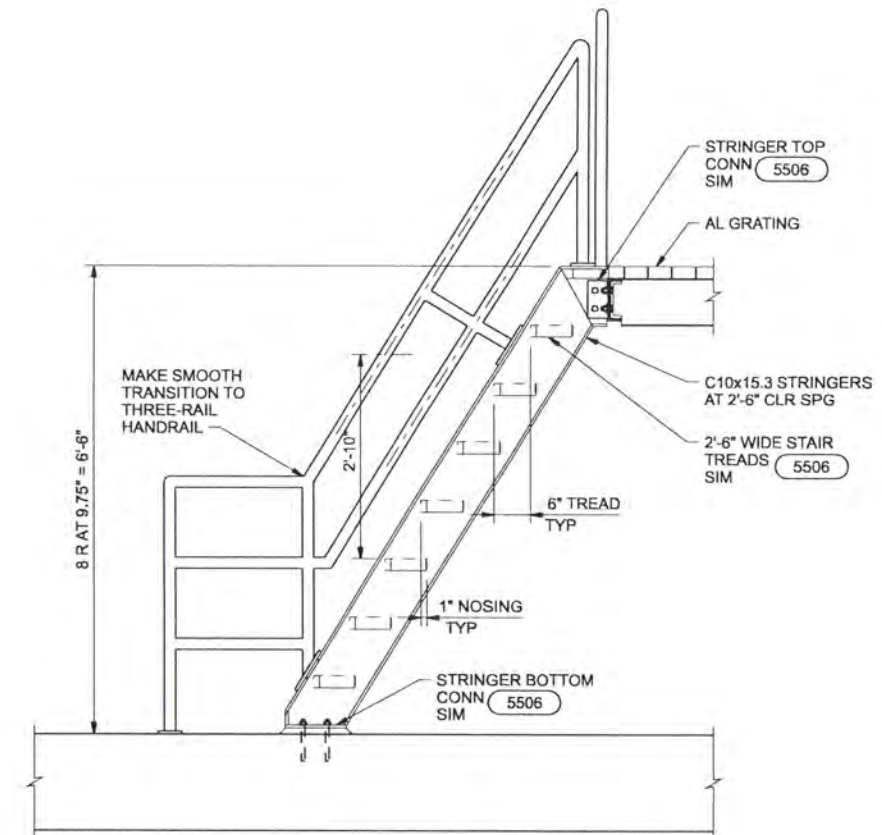
DETAIL 23
1 1/2"=1'-0" 50-AS-143 50-AS-144



DETAIL 24
1 1/2"=1'-0"



SECTION B
3/8"=1'-0" 50-AS-144



SHIPS LADDER 25
3/4"=1'-0" 50-AS-144

RECORD DRAWINGS

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DSGN	M EL-HAKIM						
DR	KJ DAVIS						
CHK	MJ MERKLEIN	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

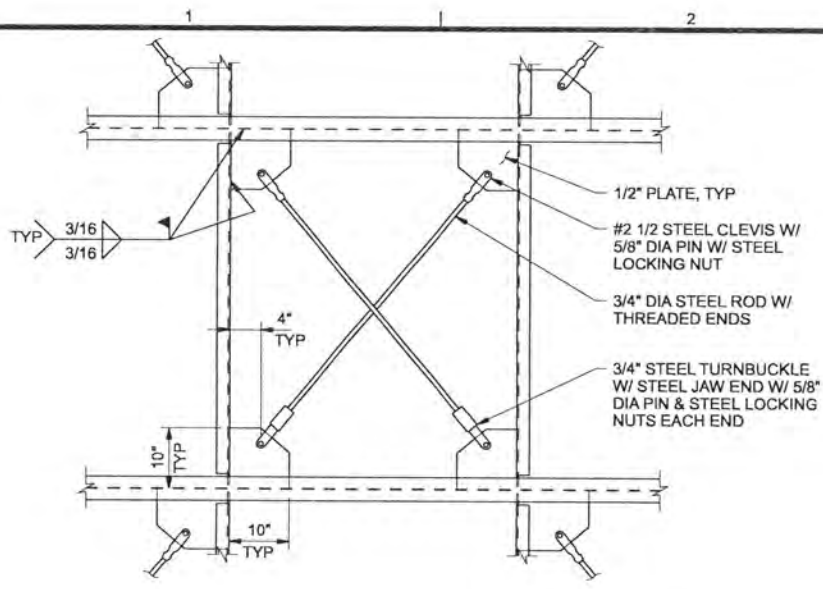
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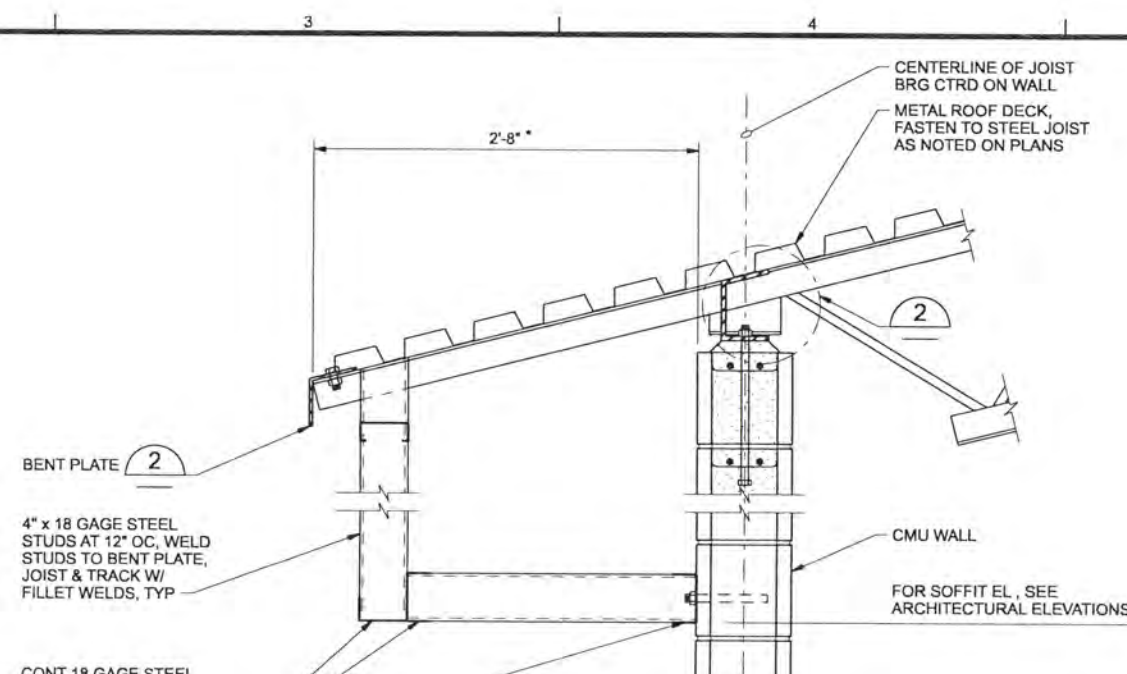
ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
STRUCTURAL
PIPE SUPPORT FRAMING ELEVATION
AND DETAILS

SHEET	174
DWG	50-S-403
DATE	APRIL 2004
PROJ	170368

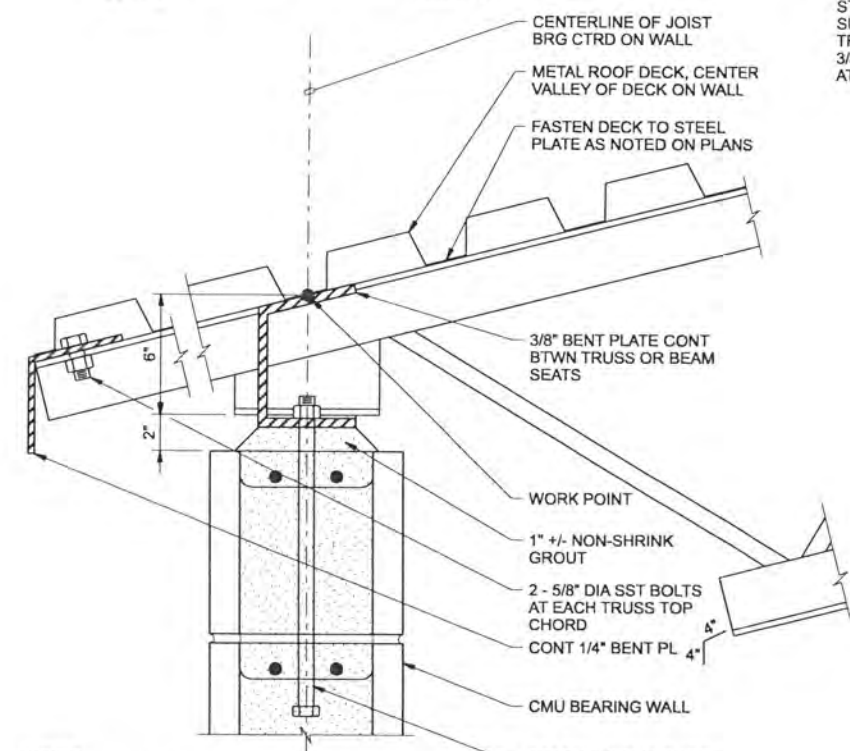


CROSS BRACING 31
3/4"=1'-0" 50-AS-144



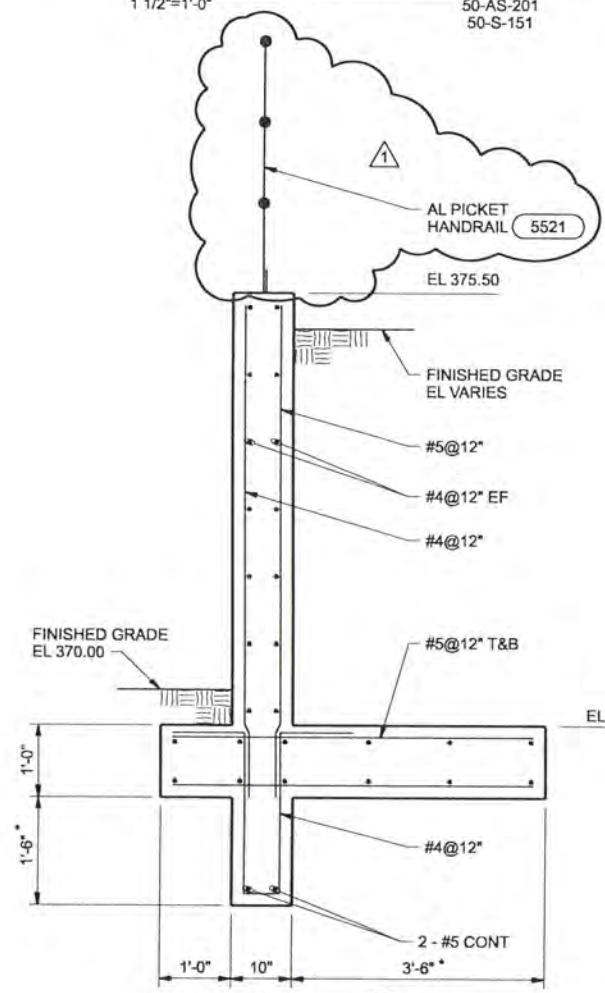
ROOF OVERHANG 33
1 1/2"=1'-0" 50-AS-201
50-S-151

NOTE:
PROVIDE 8" OVERHANG AT NORTH WALL. COORDINATE WITH ARCHITECTURAL.



NOTES:
1. FOR JOIST BEARING PLATE, SEE (5202) SIMILAR
2. SOLID GROUT TOP TWO COURSES OF CMU WALL, TYP
3. PROVIDE TWO #6 VERTICAL BARS WITH MATCHING DOWELS IN FULLY GROUTED CELLS BELOW EACH JOIST BEARING.

TOP OF WALL BETWEEN JOISTS 32
3"=1'-0" 50-AS-201



NOTES:
1. AT TOP OF WALL ELEVATION 372.50 CONTRACTOR MAY:
A DISCONTINUE 1'-6" SHEAR KEY
B. REDUCE HEEL DIMENSION TO 2'-0"
2. PROVIDE 2 LAYERS ROOFING FELT BETWEEN RETAINING WALL AND FILTRATION BUILDING WALL.

DETAIL 34
3/4"=1'-0" 50-AS-140
50-A-301

RECORD DRAWINGS

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DSGN	M EL-HAKIM								
DR	KJ DAVIS								
CHK	MJ MERKLEIN	6/1/06	RECORD DRAWING	JMD	MCH				
APVD	CW MASSIE			BY	APVD				

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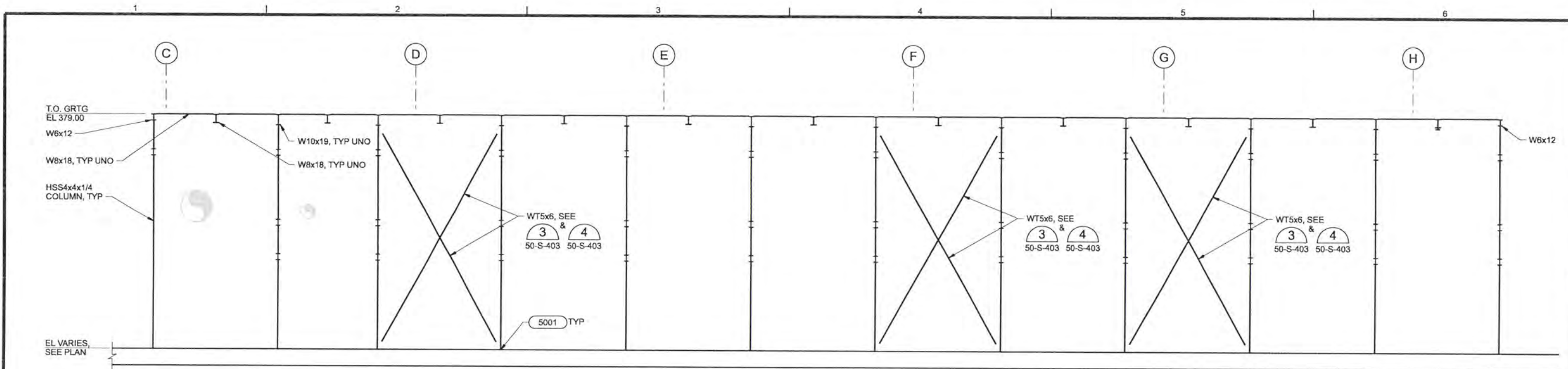


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
STRUCTURAL
PIPE SUPPORT FRAMING ELEVATION
AND DETAILS

SHEET	175
DWG	50-S-404
DATE	APRIL 2004
PROJ	170368

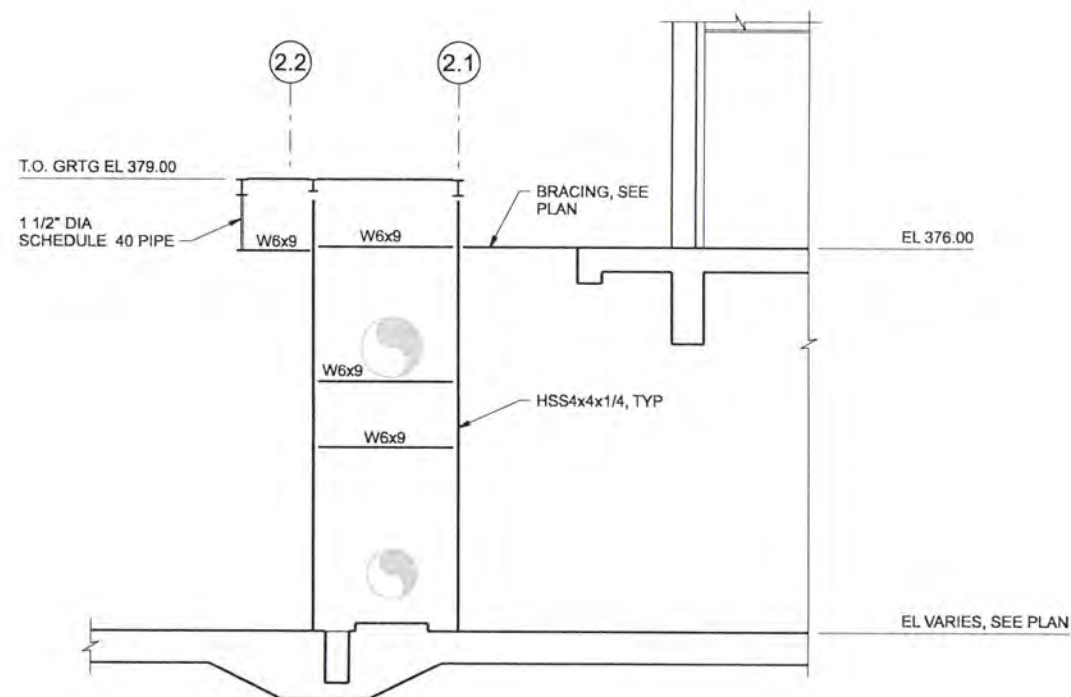
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PLATFORM FRAMING ELEVATION A

1/4"=1'-0"

50-AS-143
50-AS-144



PLATFORM FRAMING ELEVATION B

1/4"=1'-0"

50-AS-143

RECORD DRAWINGS

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USGN	M EL-HAKIM						
DR	KJ DAVIS						
CHK	MJ MERKLEIN	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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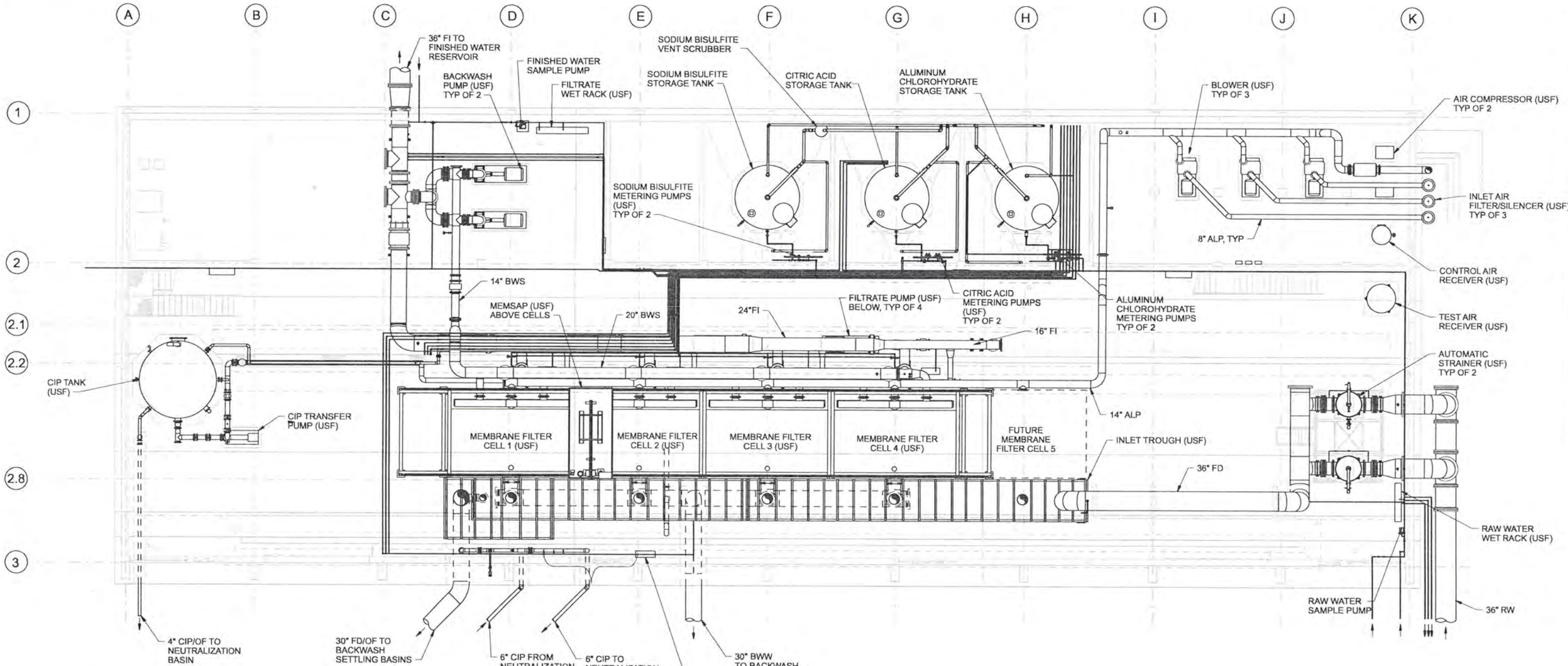
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 STRUCTURAL
 PLATFORM FRAMING
 ELEVATIONS

SHEET	176
DWG	50-S-405
DATE	APRIL 2004
PROJ	170368

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- US FILTER SUBMITTAL DRAWINGS ARE INCORPORATED IN THE CONTRACT DOCUMENTS AND ARE REFERENCED FOR ADDITIONAL MECHANICAL DESIGN DETAIL.
- SUPPORT PIPING FROM CONCRETE CEILING USING ALL SST COMPONENTS (15550) (15552) (15554) (15555) (15557)

- SUPPORT PIPING FROM WALL USING ALL SST COMPONENTS (15503) (15504) (15505) (15506) (15521)
- SUPPORT PIPING FROM FLOOR USING ALL SST COMPONENTS (15501) (15518)
- SUPPORT PIPING FROM FILTER CELL CATWALK USING ALL SST COMPONENTS (15500) (15506)

RECORD DRAWINGS

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NO.	DATE	REVISION	BY	APVD
1	6/2006	RECORD DRAWING	JMD	RCF
2				APVD
3				

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OVERALL LOWER FLOOR PLAN
 1/8"=1'-0"

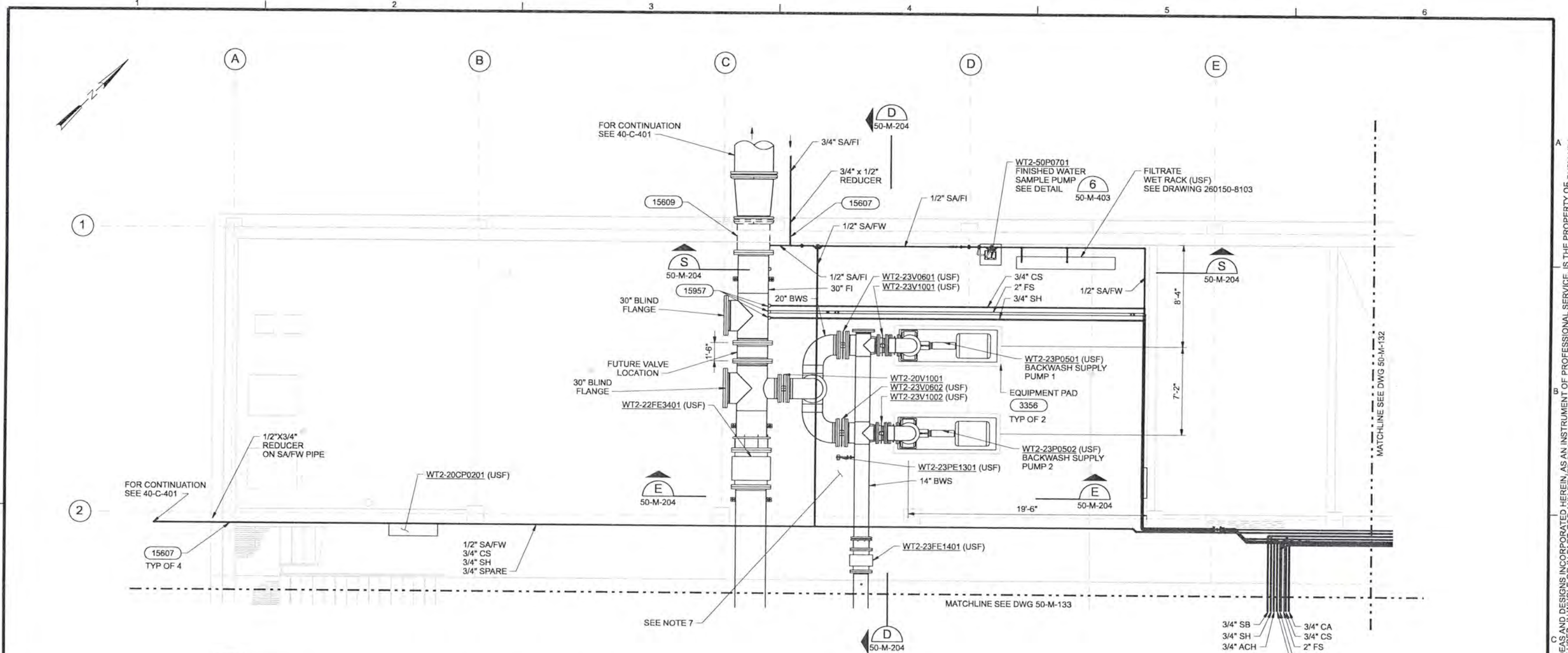


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 MECHANICAL
 OVERALL LOWER FLOOR PLAN

SHEET	177
DWG	50-M-130
DATE	APRIL 2004
PROJ	170368

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 - US FILTER SUBMITTAL DRAWINGS ARE INCORPORATED IN THE CONTRACT DOCUMENTS AND ARE REFERENCED FOR ADDITIONAL MECHANICAL DESIGN DETAIL.
 - SUPPORT PIPING FROM CONCRETE CEILING USING ALL SST COMPONENTS (15550) (15552) (15554) (15555) (15557)
 - SUPPORT PIPING FROM WALL USING ALL SST COMPONENTS (15503) (15504) (15505) (15506) (15521)
 - SUPPORT PIPING FROM FLOOR USING ALL SST COMPONENTS (15501) (15518)
 - SUPPORT PIPING FROM FILTER CELL CATWALK USING ALL SST COMPONENTS (15500) (15506)
 - REFER TO US FILTER MECHANICAL DRAWINGS 26015-4800 SERIES FOR ADDITIONAL BACKWASH SUPPLY SYSTEM DETAILS.

RECORD DRAWINGS

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DSGN	EN LOUIE						
DR	ER BROWN						
CHK	TP ENGLESON	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 MECHANICAL
 LOWER FLOOR PLAN
 AREA A

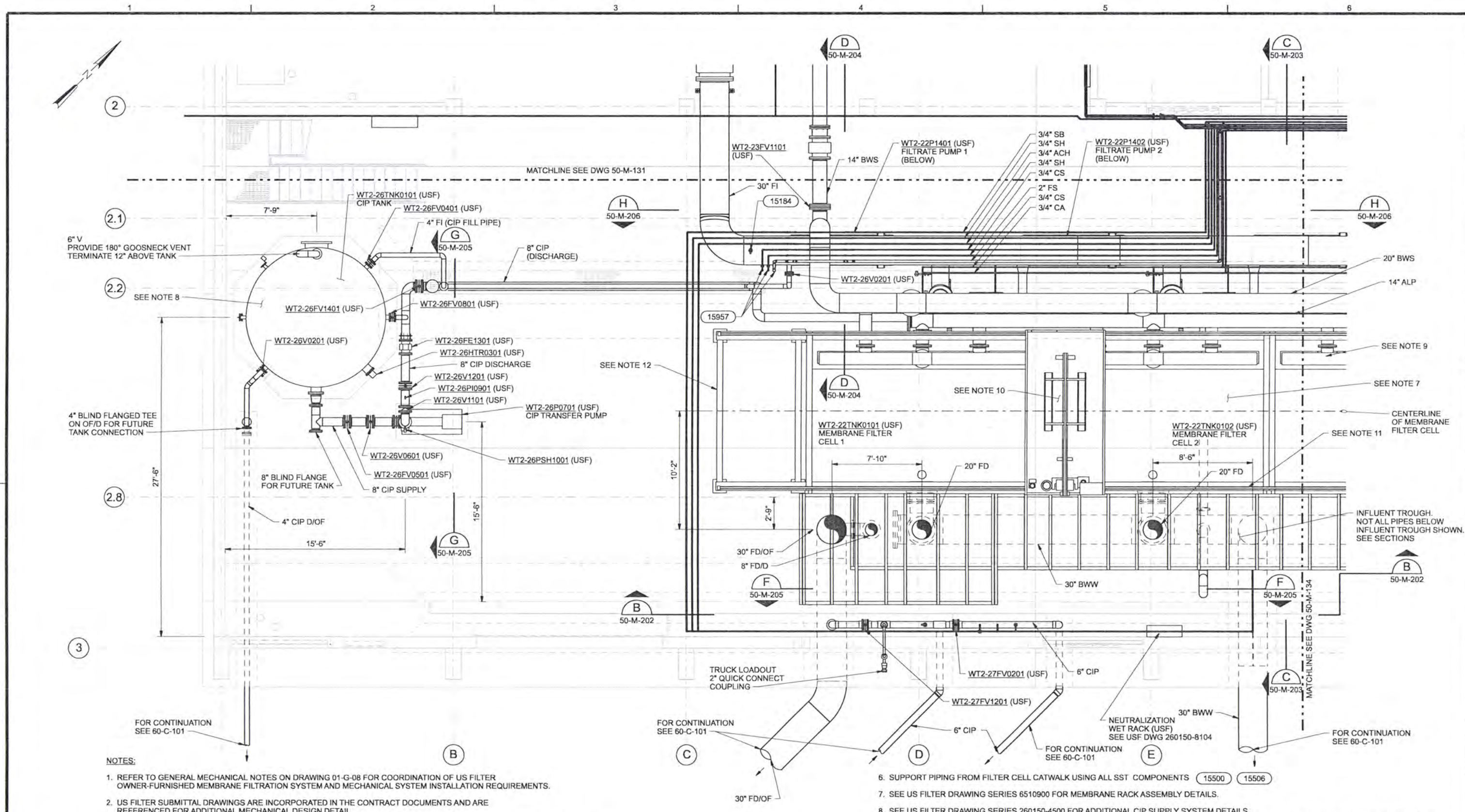
SHEET	178
DWG	50-M-131
DATE	APRIL 2004
PROJ	170368

LOWER FLOOR PLAN - AREA A
 1/4"=1'-0"

A	B
C	D

KEY PLAN

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RECORD DRAWINGS

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SUPPORT PIPING FROM CONCRETE CEILING USING ALL SST COMPONENTS	15550	15552	15554	15555	15557
SUPPORT PIPING FROM WALL USING ALL SST COMPONENTS	15503	15504	15505	15506	15521
SUPPORT PIPING FROM FLOOR USING ALL SST COMPONENTS	15501	15518			

DSGN	EN LOUIE				
DR	ER BROWN				
CHK	TP ENGLESON	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

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LOWER FLOOR PLAN - AREA C
 1/4"=1'-0"



ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

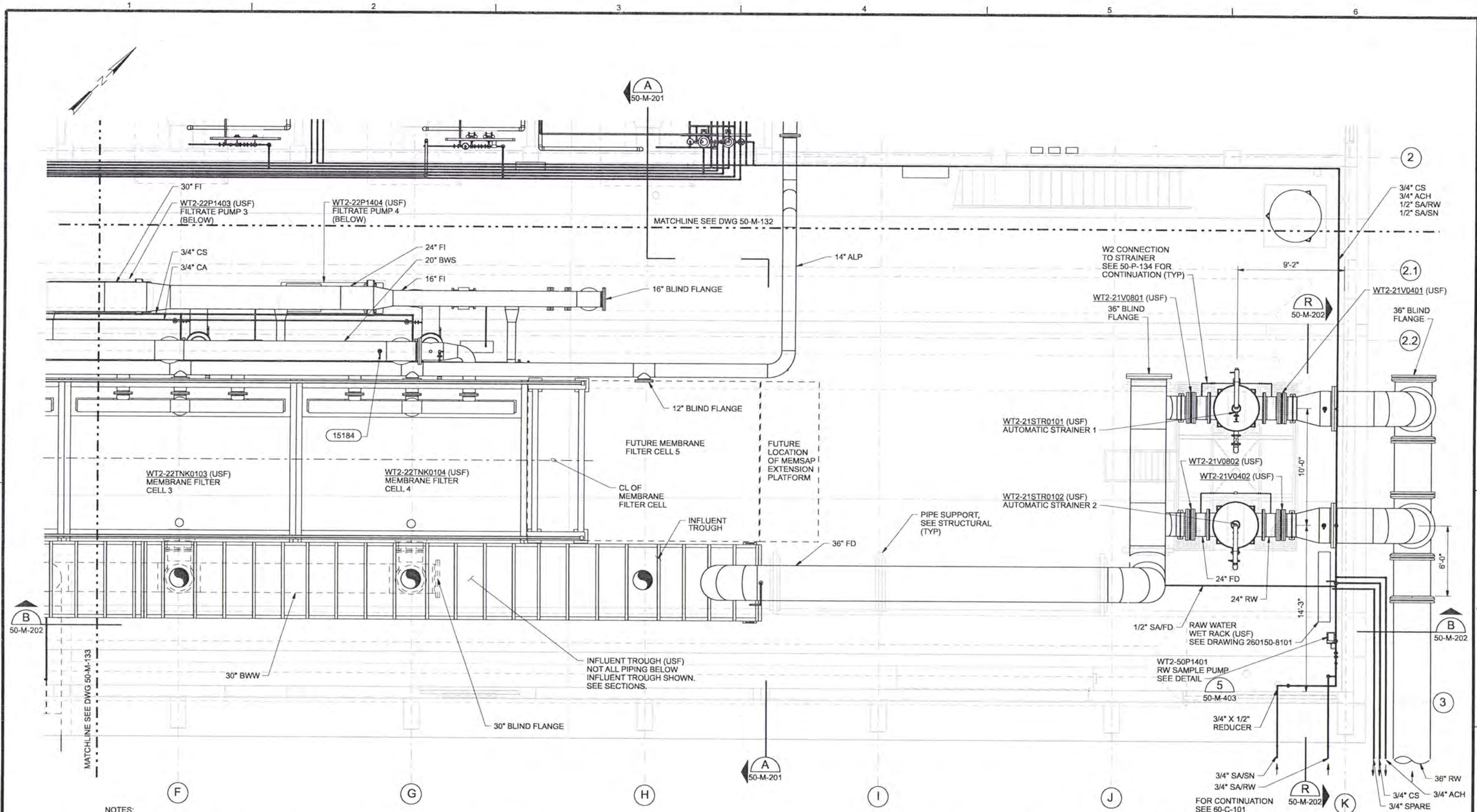
FILTRATION BUILDING
 MECHANICAL
 LOWER FLOOR PLAN
 AREA C

SHEET	180
DWG	50-M-133
DATE	APRIL 2004
PROJ	170368

- SUPPORT PIPING FROM FILTER CELL CATWALK USING ALL SST COMPONENTS 15500 15506
- SEE US FILTER DRAWING SERIES 6510900 FOR MEMBRANE RACK ASSEMBLY DETAILS.
- SEE US FILTER DRAWING SERIES 260150-4500 FOR ADDITIONAL CIP SUPPLY SYSTEM DETAILS.
- SEE US FILTER DRAWING 260150-4124 FOR CELL FILTRATE HEADER DETAILS.
- SEE US FILTER DRAWING SERIES 260150-9301 FOR MEMSAP ASSEMBLY DETAILS.
- SEE US FILTER DRAWING SERIES 260150-9305 FOR MEMSAP RAIL ASSEMBLY DETAILS.
- SEE US FILTER DRAWING 260150-4112 FOR MEMSAP RAIL EXTENSION SUPPORT DETAILS.

A	B
C	D

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2. SUPPORT PIPING FROM CONCRETE CEILING USING ALL SST COMPONENTS (15550, 15552, 15554, 15555, 15557)

3. SUPPORT PIPING FROM WALL USING ALL SST COMPONENTS (15503, 15504, 15505, 15506, 15521)

4. SUPPORT PIPING FROM FLOOR USING ALL SST COMPONENTS (15501, 15518)

5. SUPPORT PIPING FROM FILTER CELL CATWALK USING ALL SST COMPONENTS (15500, 15506)

6. REFER TO US FILTER DWG SERIES 260150-4300 FOR ADDITIONAL STRAINER DETAILS.

LOWER FLOOR PLAN - AREA D
1/4"=1'-0"

Revisions Drawn By: JMD Date: 6/2006

DSGN	EN LOUIE
DR	ER BROWN
CHK	TP ENGLESON
APVD	CW MASSIE

NO.	DATE	REVISION	BY	APVD
	6/2006	RECORD DRAWING	JMD	RCF

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JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

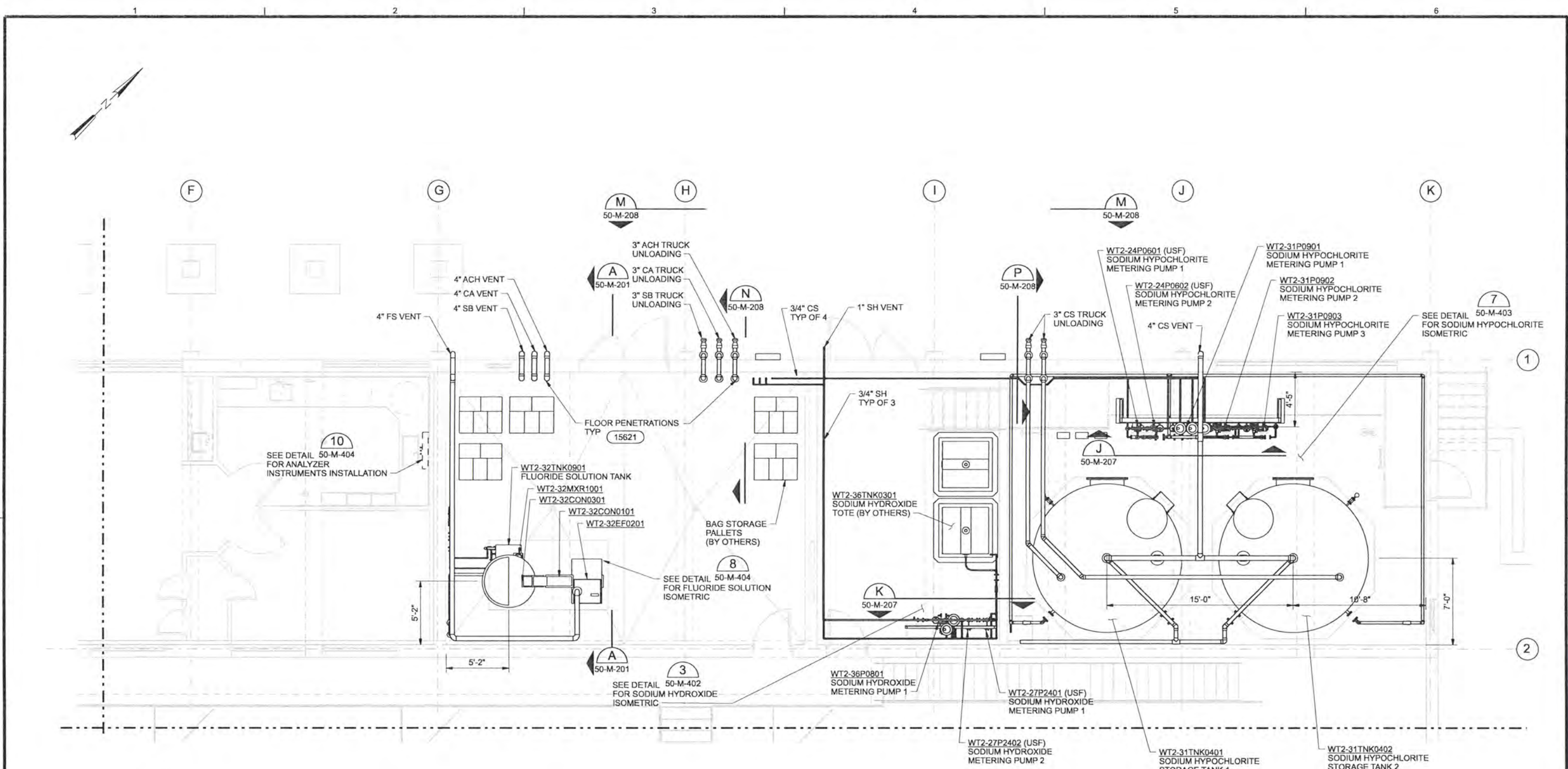
FILTRATION BUILDING
MECHANICAL
LOWER FLOOR PLAN
AREA D

SHEET	181
DWG	50-M-134
DATE	APRIL 2004
PROJ	170368

A	B
C	D

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- SUPPORT PIPING FROM CEILING TRUSSES USING ALL SST COMPONENTS (15550) SIM (15552) SIM (15554) SIM (15555) SIM (15557) SIM
- SUPPORT PIPING FROM WALL USING ALL SST COMPONENTS (15503) (15504) (15505) (15506) (15521) (15501) (15518)

RECORD DRAWINGS: SUPPORT PIPING FROM FLOOR USING ALL SST COMPONENTS (15501) (15518)

Revisions Drawn By JMD Date 6/2006
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DSGN	EN LOUIE/B YOUKER					
DR	ER BROWN					
CHK	TP ENGLESON	6/2006	RECORD DRAWING	JMD	RCF	
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

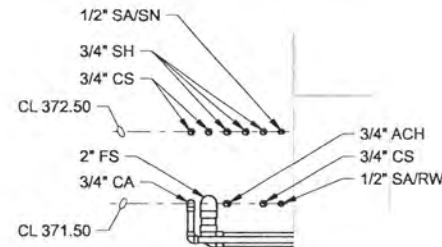
FILTRATION BUILDING
 MECHANICAL
 UPPER FLOOR PLAN
 AREA B

SHEET	182
DWG	50-M-142
DATE	APRIL 2004
PROJ	170368

UPPER FLOOR PLAN - AREA B
 1/4"=1'-0"

A	B
C	D

KEY PLAN



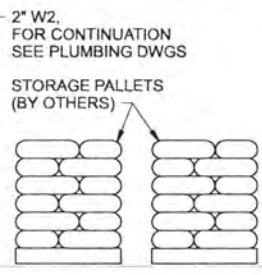
DETAIL 1
3/4"=1'-0"

FOR TYPICAL PIPING AT EACH MEMBRANE FILTER CELL, EXCLUDING CHEMICAL PIPING, SEE US FILTER DWG 260150-4101

CORRIDOR FOR AHP PIPING AND ELECTRICAL CABLE TRAYS, TYP

FOR FLUROIDE SYSTEM ISOMETRIC SEE 8 50-M-404

2" ALP (EXHAUST) CL EL 384.0



CL 389.50

INSTALL BIRD SCREEN ON ALL VENT & EXHAUST OPENINGS

4" ALP (EXHAUST)

4" CA (VENT)

4" CA (VENT)

4" ACH (VENT)

EL 376.00

4" ACH (VENT)

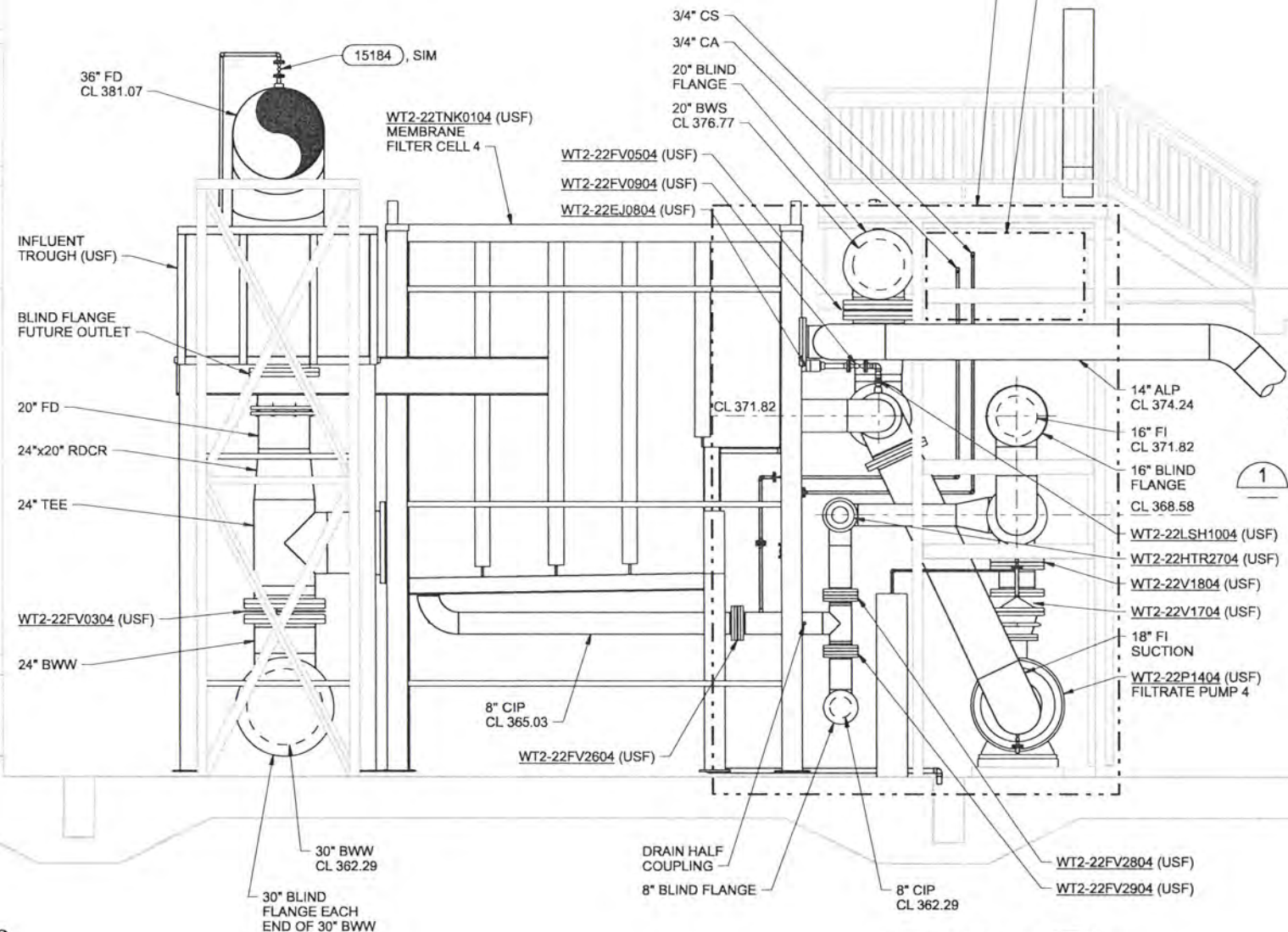
4" CA (VENT)

3" SB (FILL)

3" CA (FILL)

EL 360.00

FOR CITRIC ACID SYSTEM ISOMETRIC SEE 2 50-M-401



SECTION A
3/8"=1'-0"
50-M-132
50-M-134
50-M-142

RECORD DRAWINGS

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DR	ER BROWN						
CHK	TP ENGLESON	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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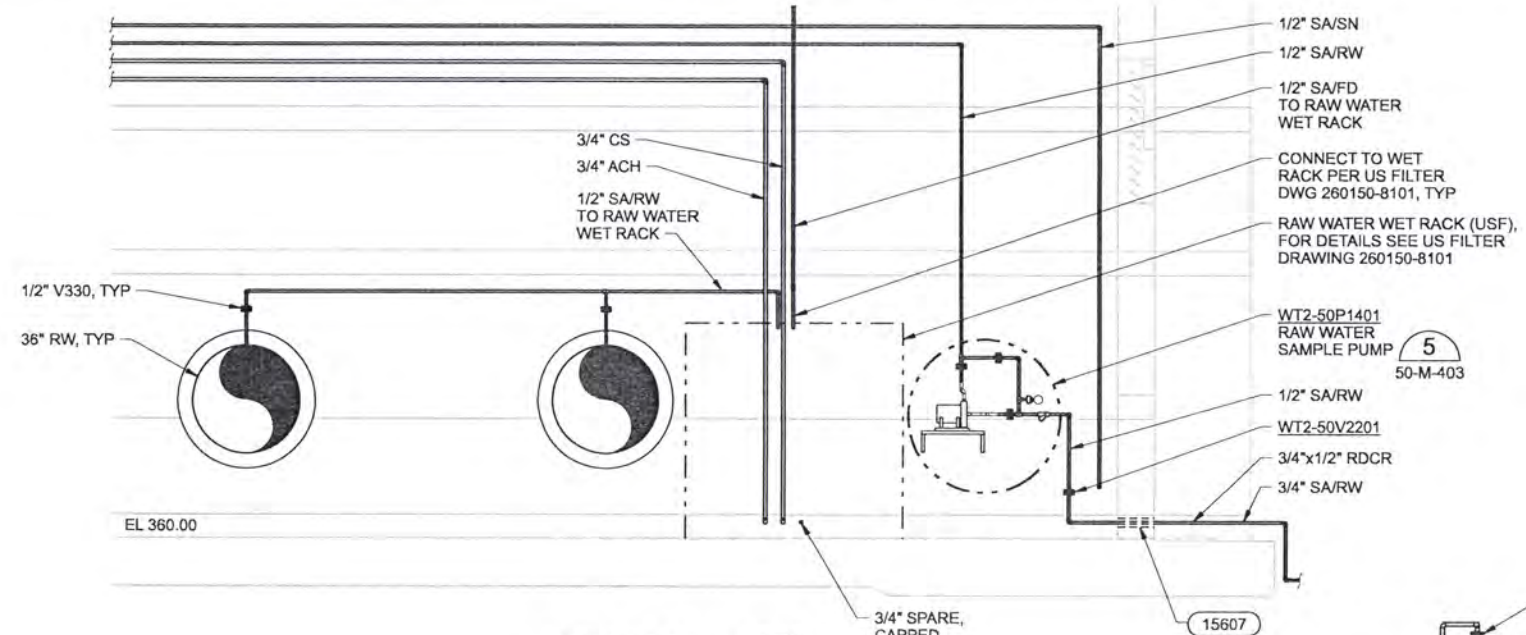


ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

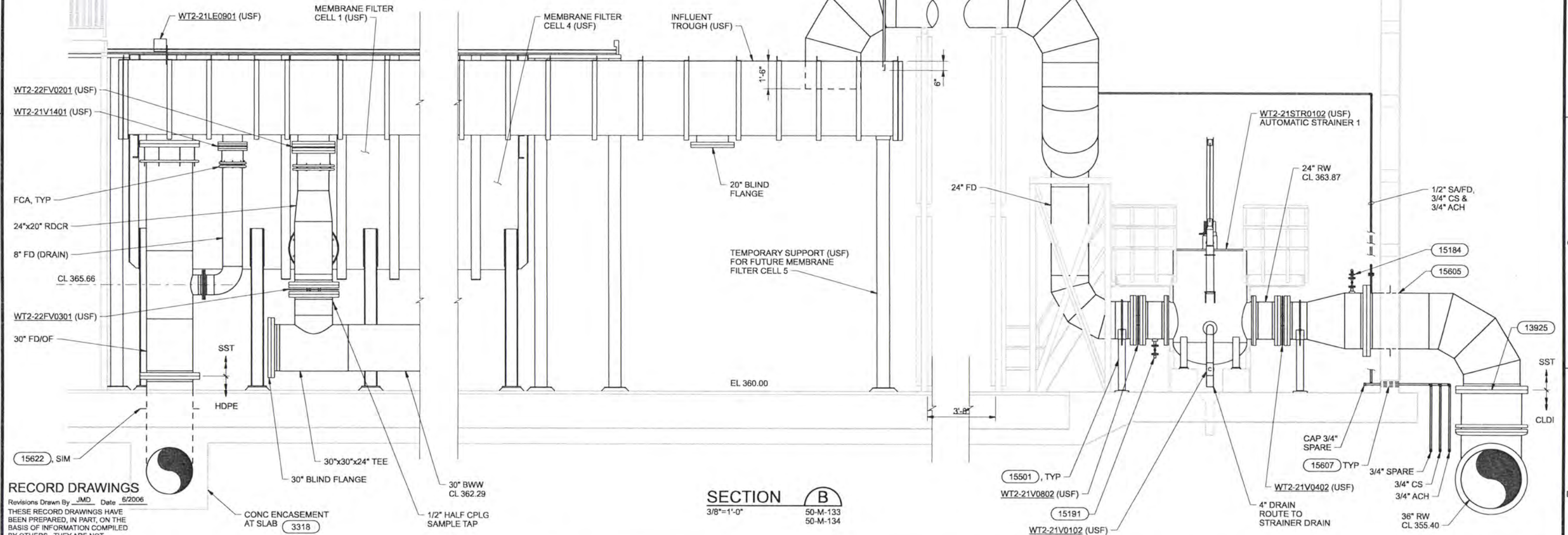
FILTRATION BUILDING
MECHANICAL SECTIONS

SHEET	183
DWG	50-M-201
DATE	APRIL 2004
PROJ	170368

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SECTION R
3/8"=1'-0"
50-M-134



SECTION B
3/8"=1'-0"
50-M-133
50-M-134

RECORD DRAWINGS

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DR	ER BROWN								
CHK	TP ENGLESON	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	BY	APVD				

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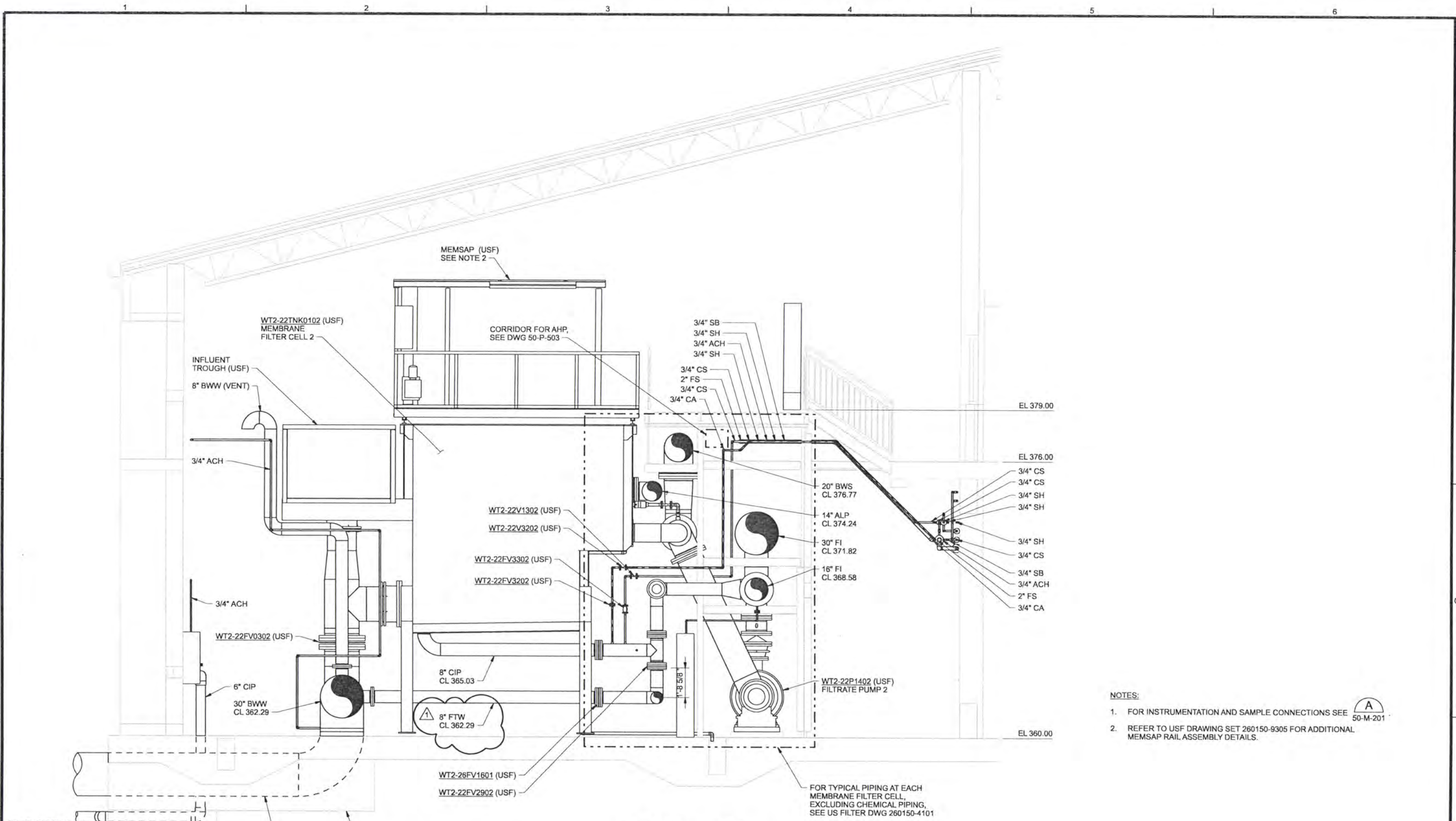


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 MECHANICAL SECTIONS

SHEET	184
DWG	50-M-202
DATE	APRIL 2004
PROJ	170368

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- NOTES:
- FOR INSTRUMENTATION AND SAMPLE CONNECTIONS SEE A 50-M-201
 - REFER TO USF DRAWING SET 260150-9305 FOR ADDITIONAL MEMSAP RAIL ASSEMBLY DETAILS.

RECORD DRAWINGS

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DSGN	EN LOUIE	NO.	DATE	REVISION	BY	APVD
DR	ER BROWN					
CHK	TP ENGLESON					
APVD	CW MASSIE					

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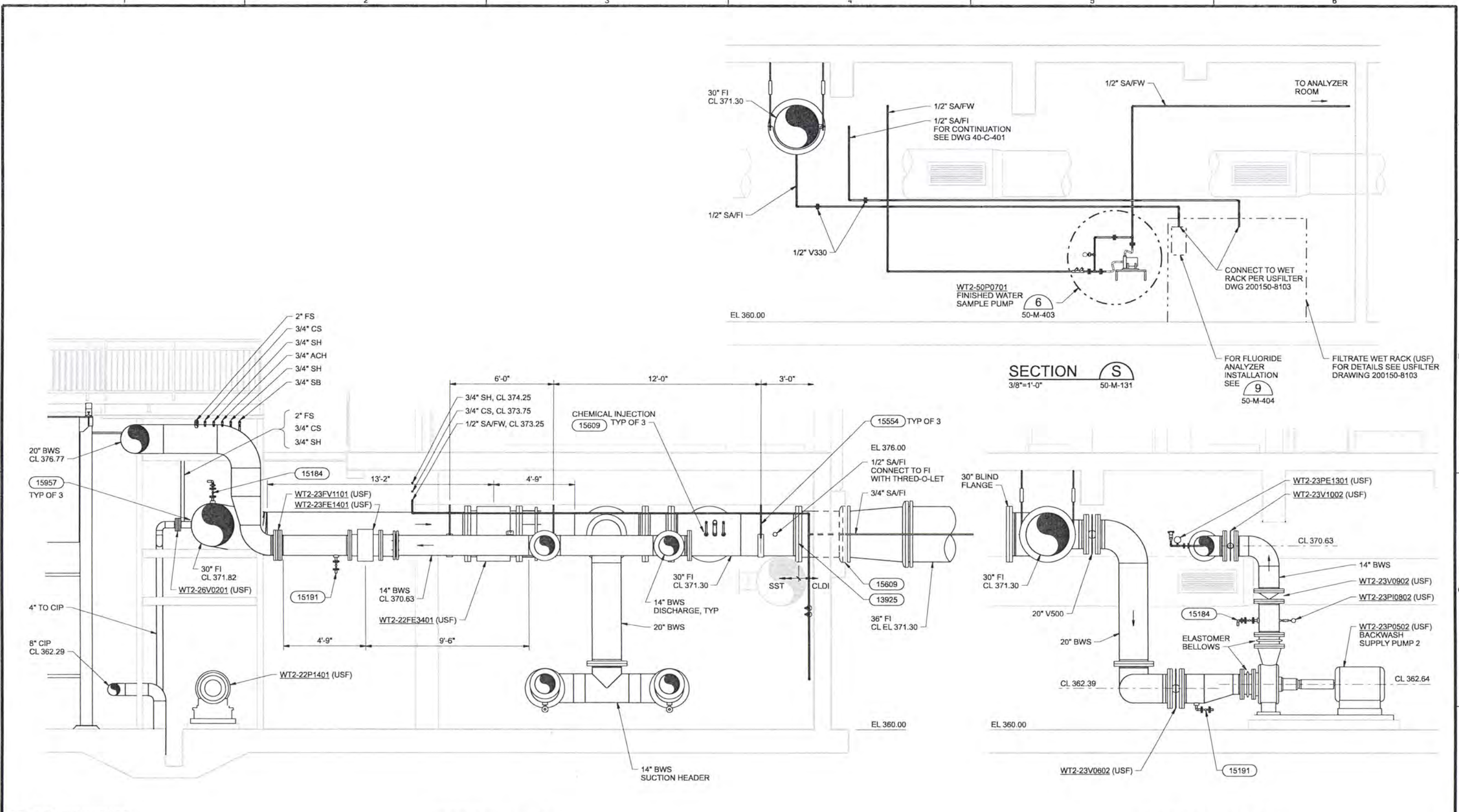
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 MECHANICAL SECTIONS

SHEET	185
DWG	50-M-203
DATE	APRIL 2004
PROJ	170368

SECTION C
 3/8"=1'-0" 50-M-133

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DR	ER BROWN						
CHK	TP ENGLESON	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

SECTION D
 3/8"=1'-0" 50-M-131

SECTION S
 3/8"=1'-0" 50-M-131

SECTION E
 3/8"=1'-0" 50-M-131

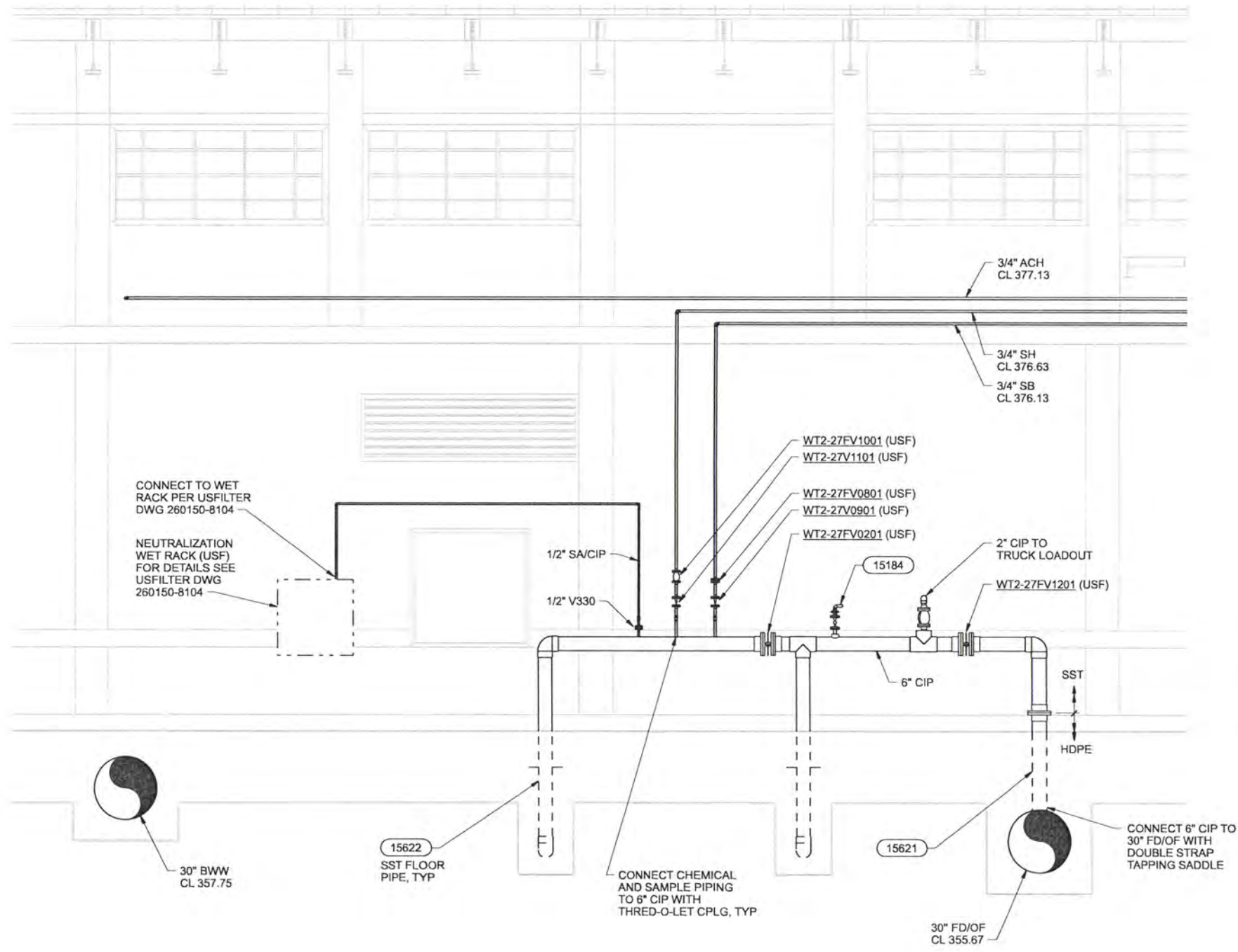
CH2MHILL

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 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

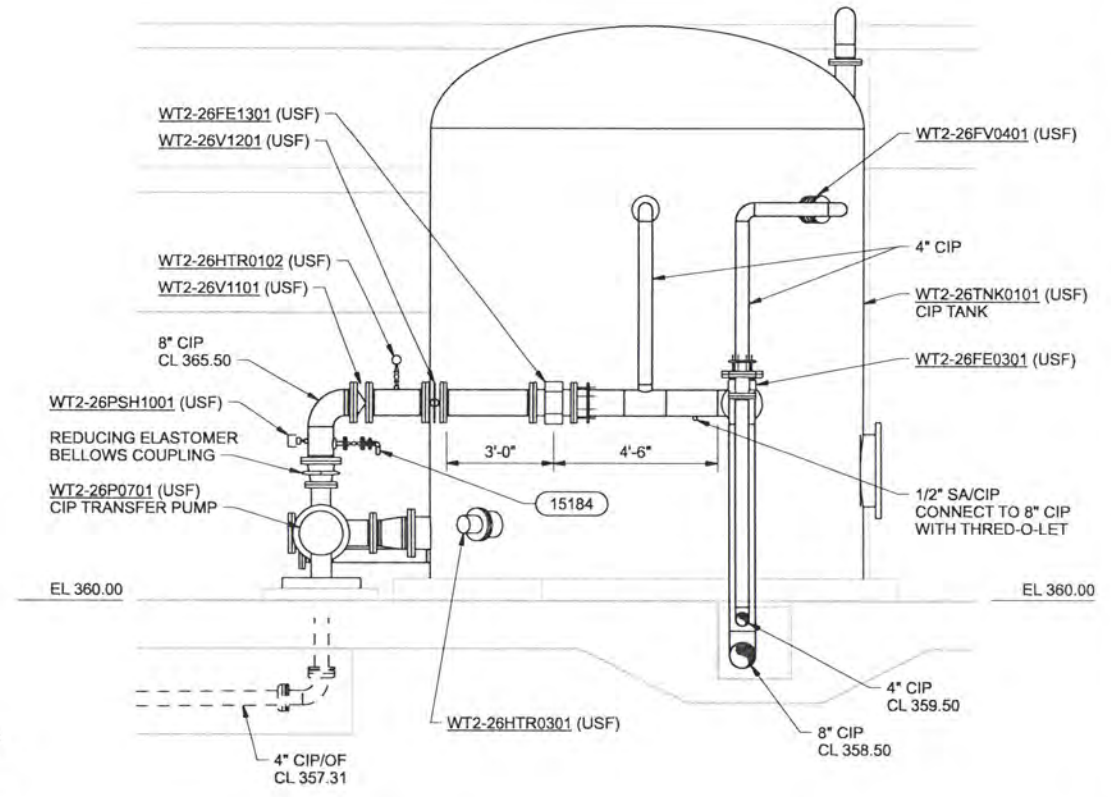
FILTRATION BUILDING
 MECHANICAL SECTIONS

SHEET	186
DWG	50-M-204
DATE	APRIL 2004
PROJ	170368

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SECTION **F**
3/8"=1'-0" 50-M-133



- NOTES:
1. REFER TO USF DWG 260150-5004 FOR ADDITIONAL CIP TANK DETAIL, INCLUDING TANK MOUNTED INSTRUMENTATION.
 2. REFER TO USF DWG SERIES 260150-4500 FOR ADDITIONAL CIP SUPPLY SYSTEM DETAIL.

SECTION **G**
3/8"=1'-0" 50-M-133

RECORD DRAWINGS

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DR	ER BROWN						
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APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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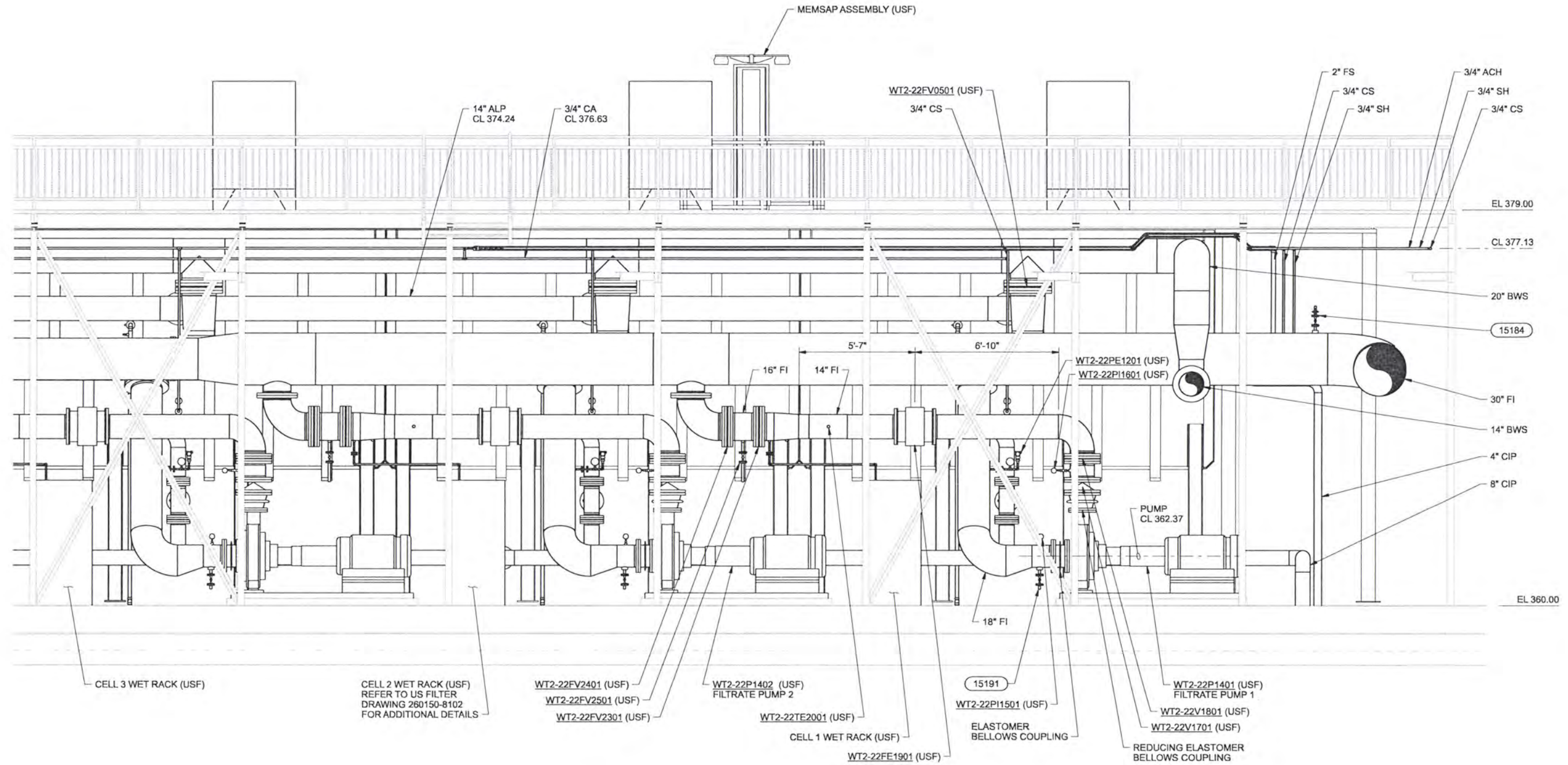


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 MECHANICAL SECTIONS

SHEET	187
DWG	50-M-205
DATE	APRIL 2004
PROJ	170368

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SECTION **H**
3/8"=1'-0" 50-M-133

NOTES:

- ONLY CELL NO. 1 ANNOTATED FOR CLARITY. REFER TO US FILTER DWG SET 260150-41XX, DWG SET 260150-7100, AND DWG SET 260150-003 FOR ADDITIONAL DETAIL.

RECORD DRAWINGS

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DR	ER BROWN						
CHK	TP ENGLESON	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

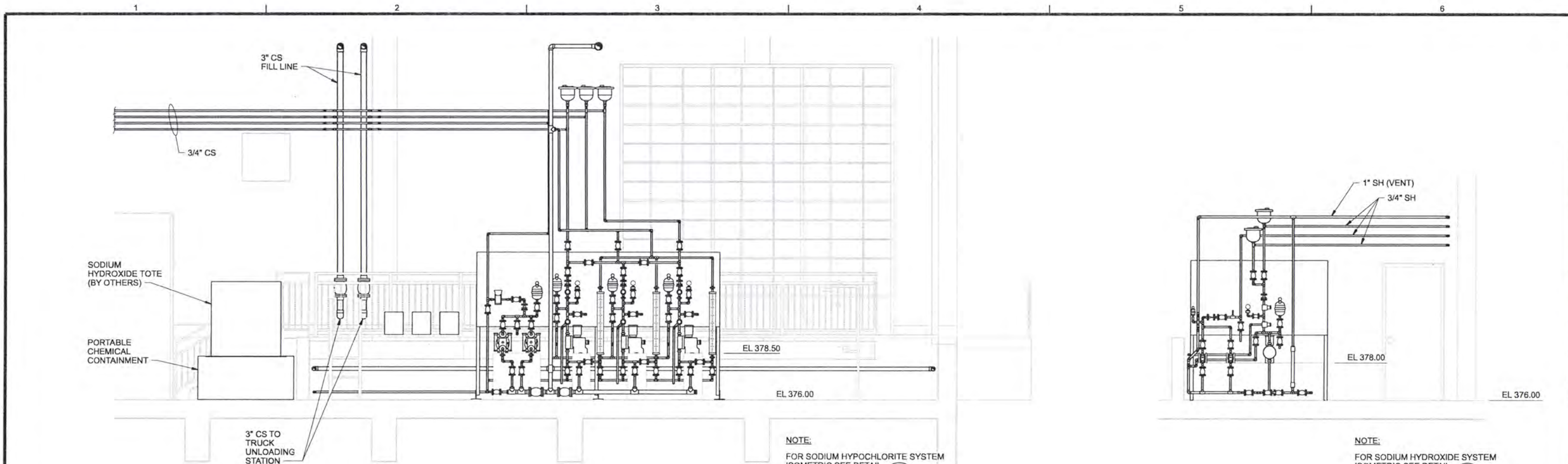
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CH2MHILL

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 LINN COUNTY, OREGON

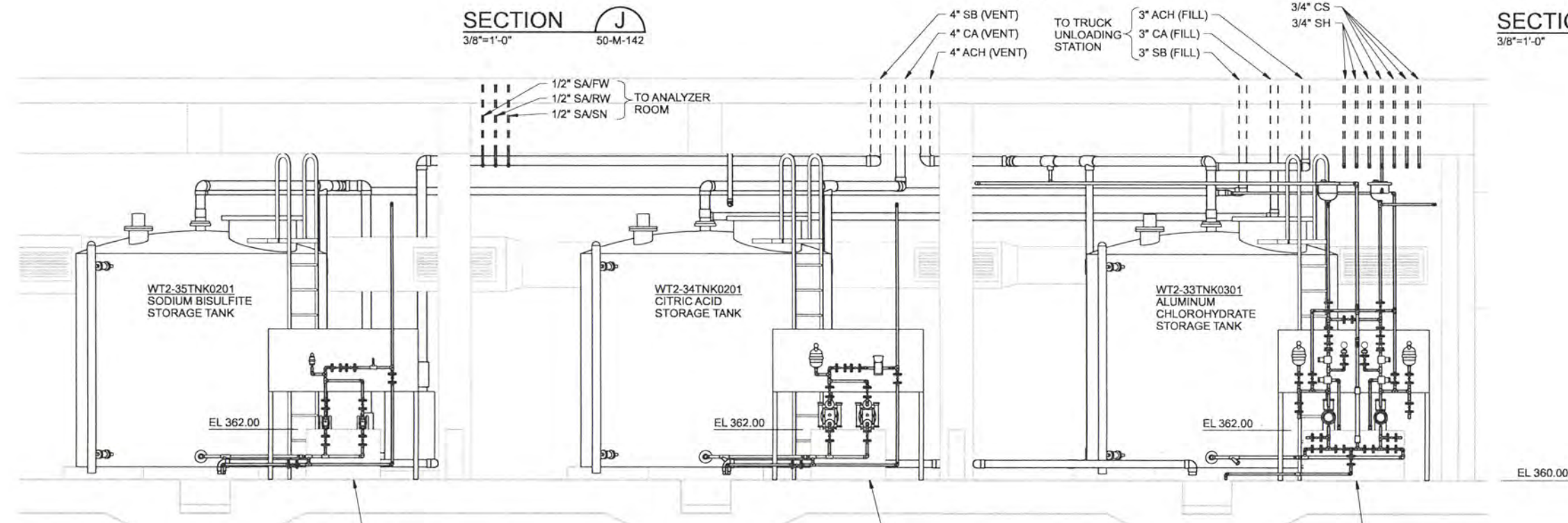
FILTRATION BUILDING
 MECHANICAL SECTIONS

SHEET	188
DWG	50-M-206
DATE	APRIL 2004
PROJ	170368



SECTION J
3/8"=1'-0" 50-M-403

SECTION K
3/8"=1'-0" 50-M-402



SECTION L
3/8"=1'-0" 50-M-132

RECORD DRAWINGS

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DR	ER BROWN						
CHK	TP ENGLESON	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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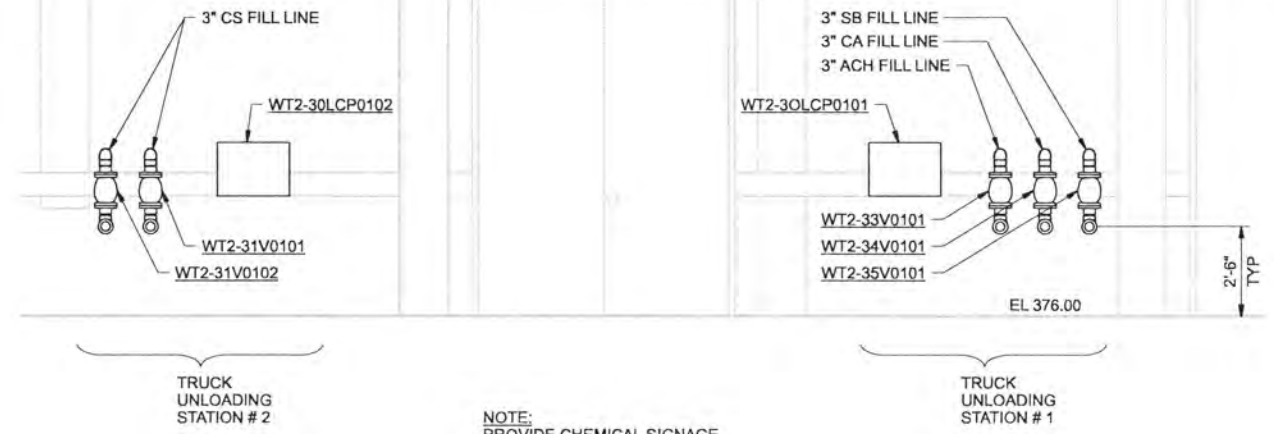


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 MECHANICAL SECTIONS

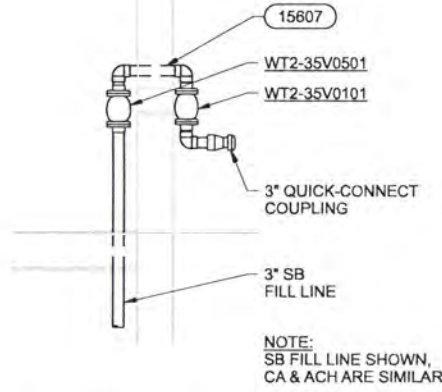
SHEET	189
DWG	50-M-207
DATE	APRIL 2004
PROJ	170368

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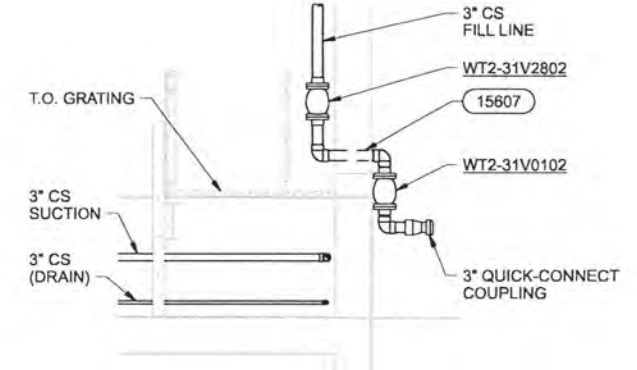
NOTE:
PROVIDE CHEMICAL SIGNAGE
AT EACH UNLOADING STATION.

SECTION **M**
3/8"=1'-0" 50-M-142

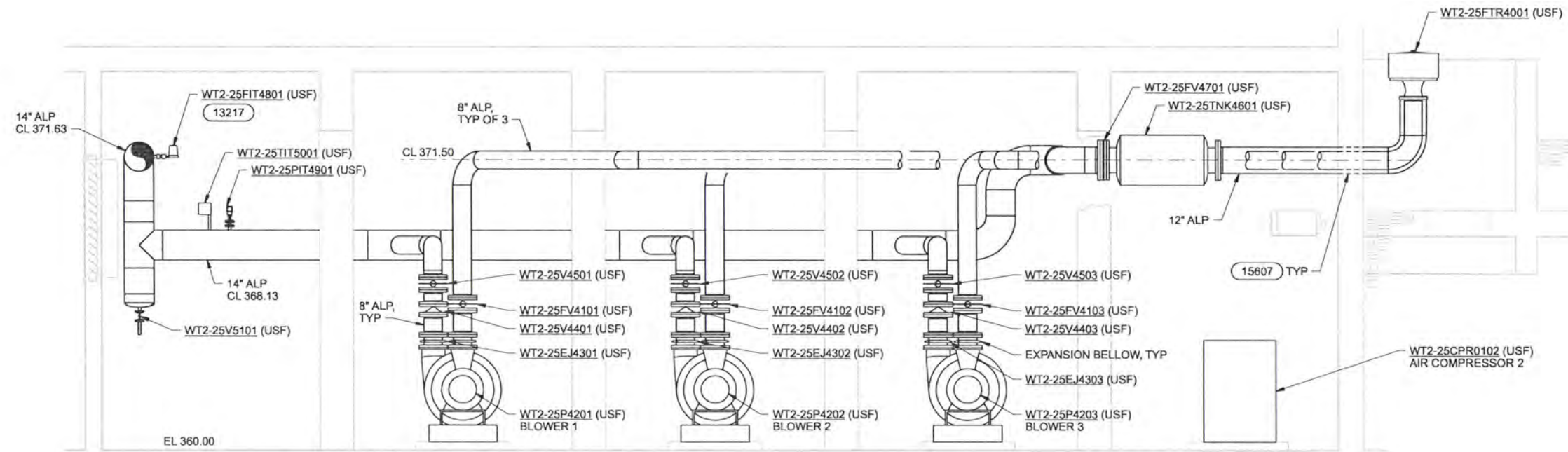


NOTE:
SB FILL LINE SHOWN,
CA & ACH ARE SIMILAR.

SECTION **N**
3/8"=1'-0" 50-M-142



SECTION **P**
3/8"=1'-0" 50-M-142



- NOTES:
- REFER TO DWG SERIES 260150-4700 FOR ADDITIONAL AERATION SYSTEM (ALP) DETAIL.
 - REFER TO DWG SERIES 260150-4400 FOR ADDITIONAL COMPRESSED AIR SYSTEM (AHP) DETAIL.

SECTION **Q**
3/8"=1'-0" 50-M-132

RECORD DRAWINGS

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DSGN	EN LOUIE				
DR	ER BROWN				
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APVD	CW MASSIE	NO.	DATE	BY	APVD

VERIFY SCALE
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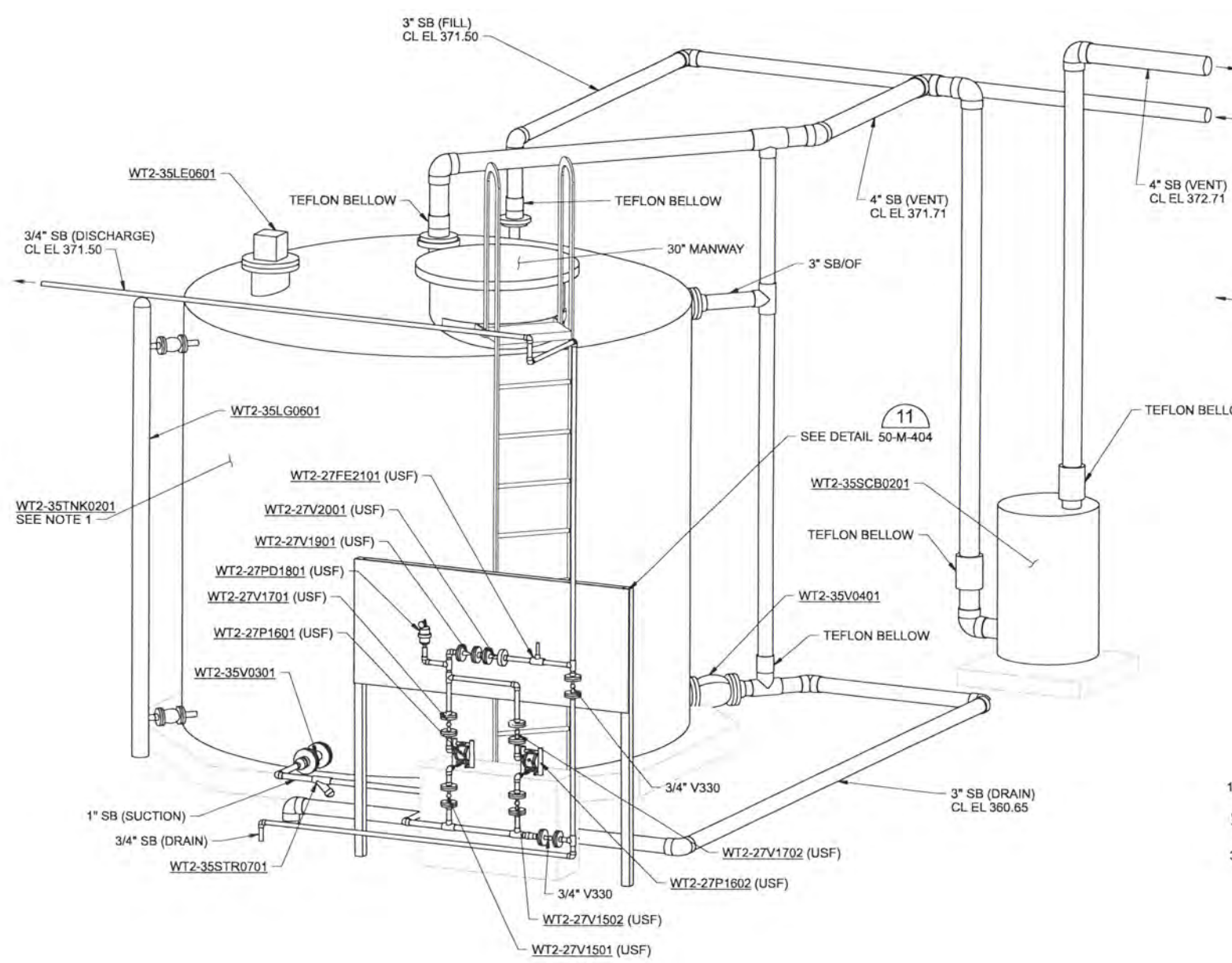


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

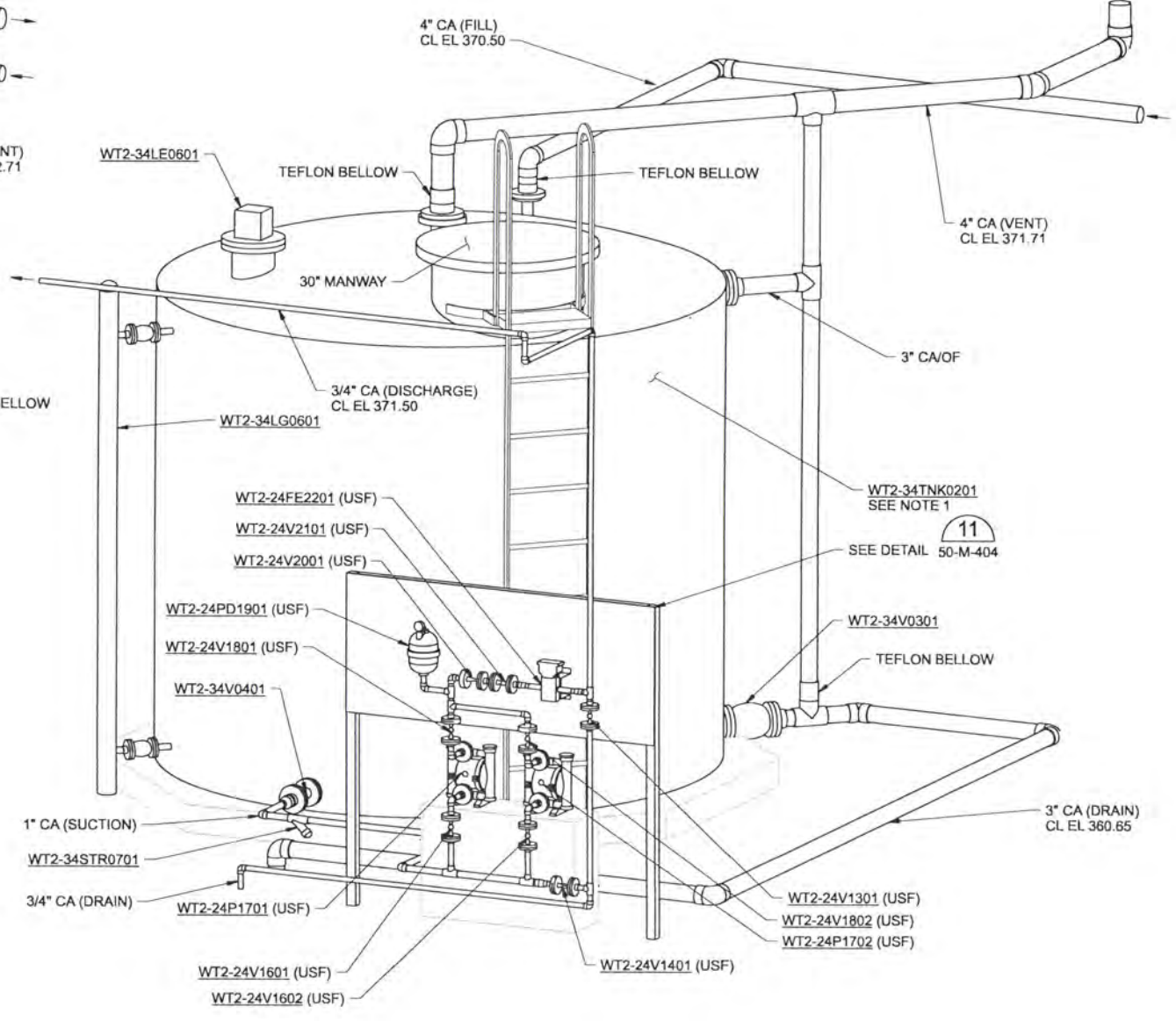
FILTRATION BUILDING
MECHANICAL
SECTIONS

SHEET	190
DWG	50-M-208
DATE	APRIL 2004
PROJ	170368

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SODIUM BISULFITE ISOMETRIC DETAIL 1
 NTS 50-M-132
 50-M-207



CITRIC ACID ISOMETRIC DETAIL 2
 NTS 50-M-132
 50-M-201
 50-M-207

NOTES:
 1. FOR TANK NOZZLE AND LEVEL SWITCH LOCATIONS, REFER TO TANK DATA SHEETS IN SPECIFICATION SECTION 13205.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	EN LOUIE								
DR	ER BROWN								
CHK	TP ENGLESON	6/2006	RECORD DRAWING		JMD	RCF			
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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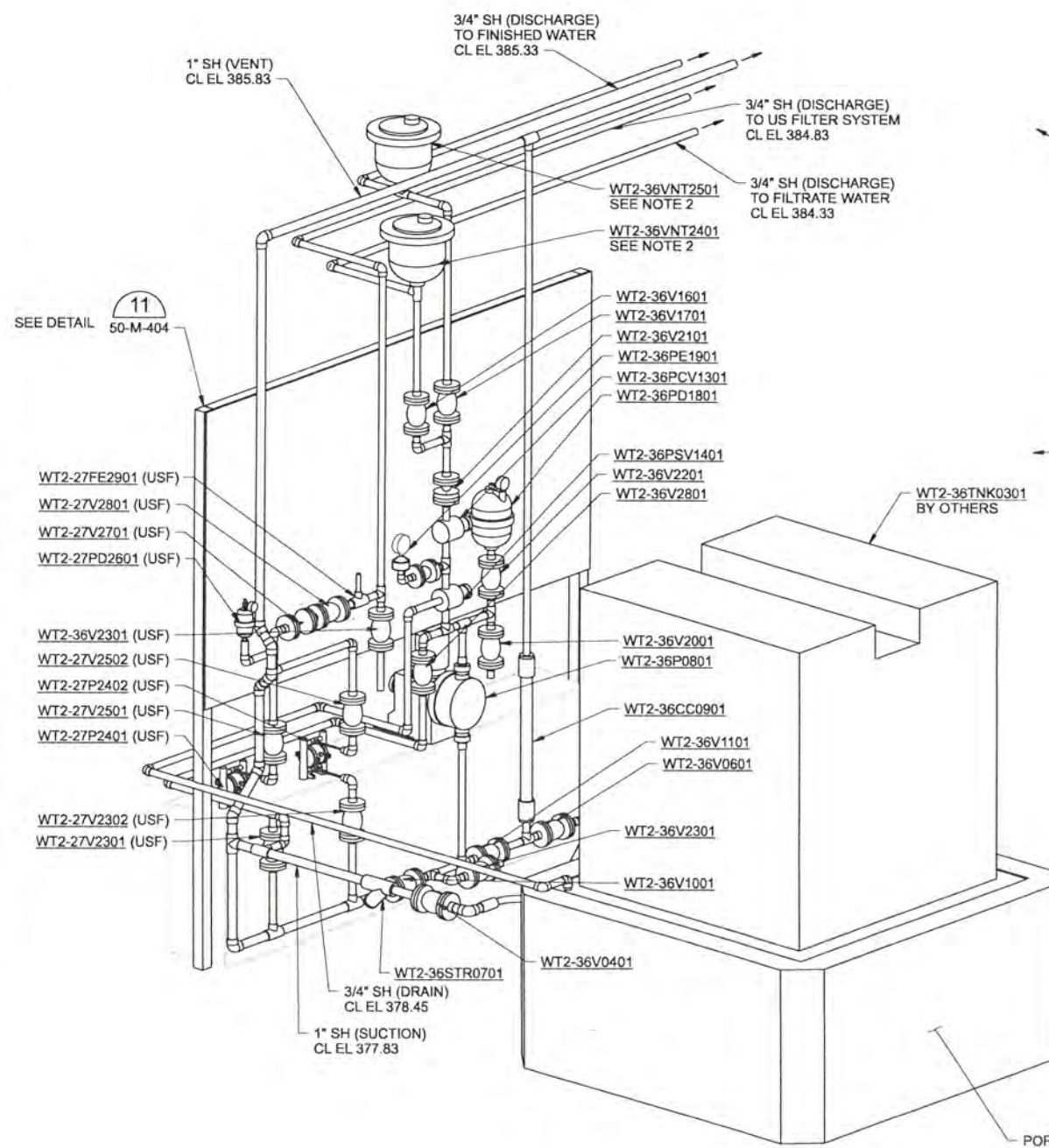


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 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

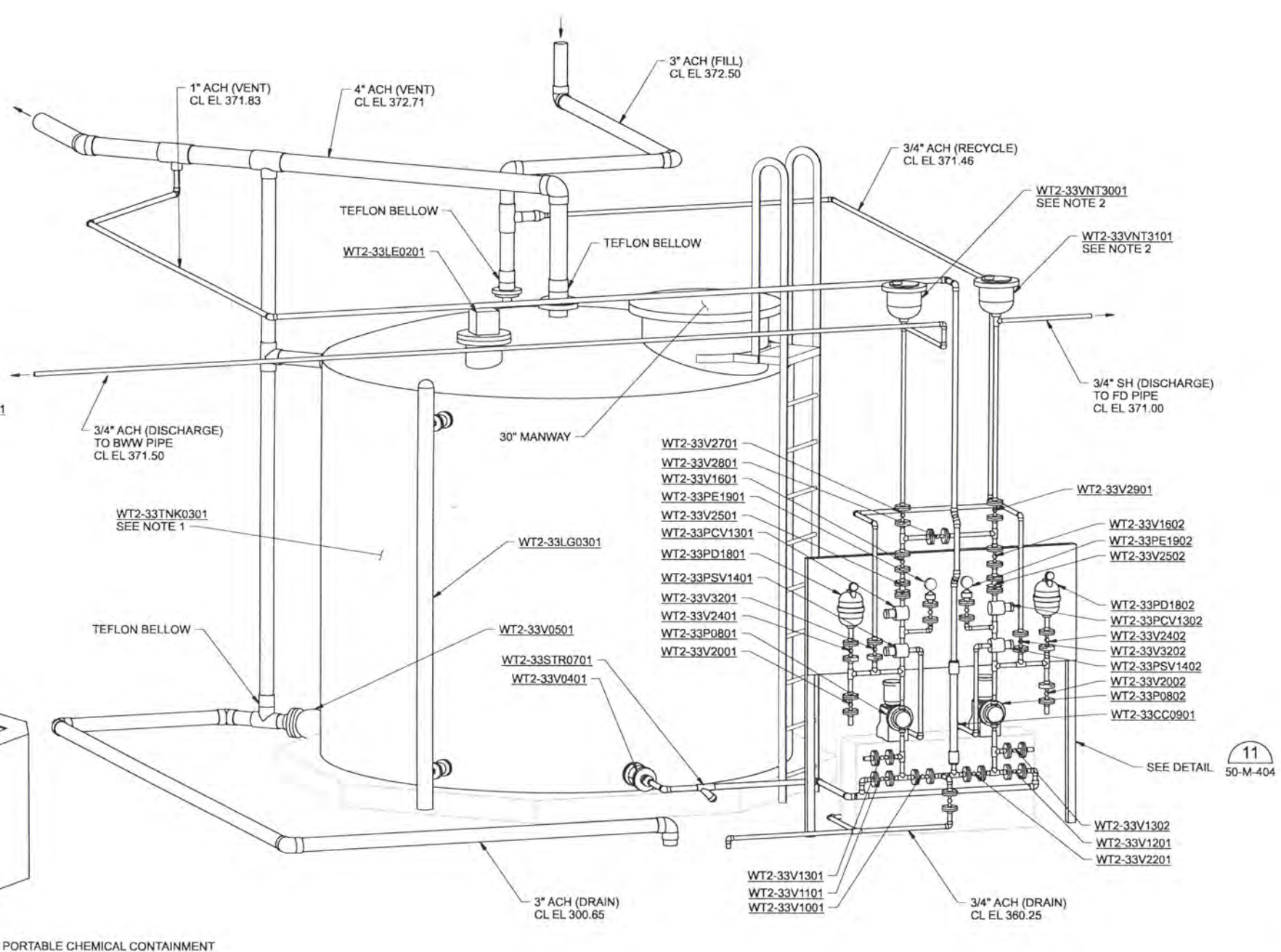
FILTRATION BUILDING
 MECHANICAL
 DETAILS

SHEET	191
DWG	50-M-401
DATE	APRIL 2004
PROJ	170368

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SODIUM HYDROXIDE ISOMETRIC DETAIL 3
 NTS 50-M-142 50-M-207



ALUMINUM CHLOROHYDRATE ISOMETRIC DETAIL 4
 NTS 50-M-132 50-M-207

- NOTES:**
- FOR TANK NOZZLE AND LEVEL SWITCH LOCATIONS, REFER TO TANK DATA SHEETS IN SPECIFICATION SECTION 13205.
 - ROUTE TOP DISCHARGE OF AIR AND VACUUM RELEASE VALVES TO NEAREST VENT PIPE.

RECORD DRAWINGS

Revisions Drawn By JMD Date 8/2006
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DSGN	EN LOUIE														
DR	ER BROWN														
CHK	TP ENGLESON		6/2006	RECORD DRAWING		JMD	RCF								
APVD	CW MASSIE	NO.	DATE	REVISION		BY	APVD								

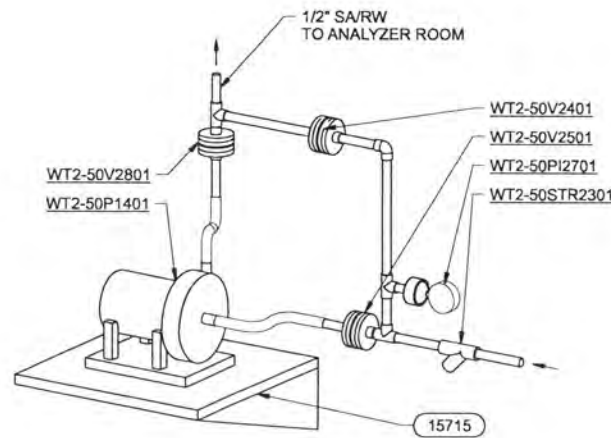


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 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

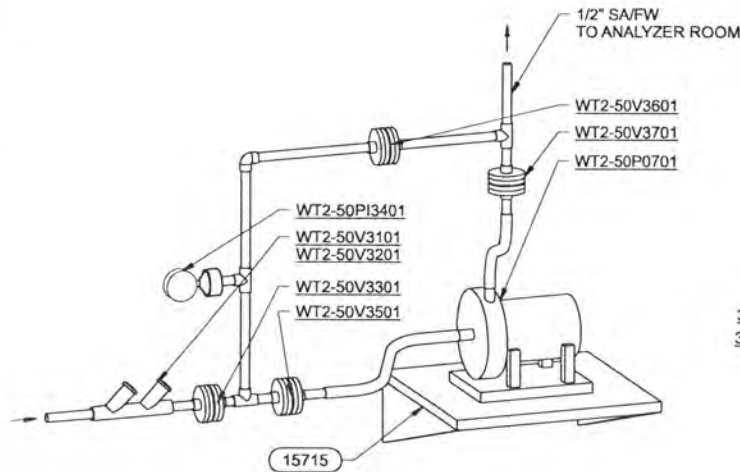
FILTRATION BUILDING
 MECHANICAL
 DETAILS

SHEET	192
DWG	50-M-402
DATE	APRIL 2004
PROJ	170368

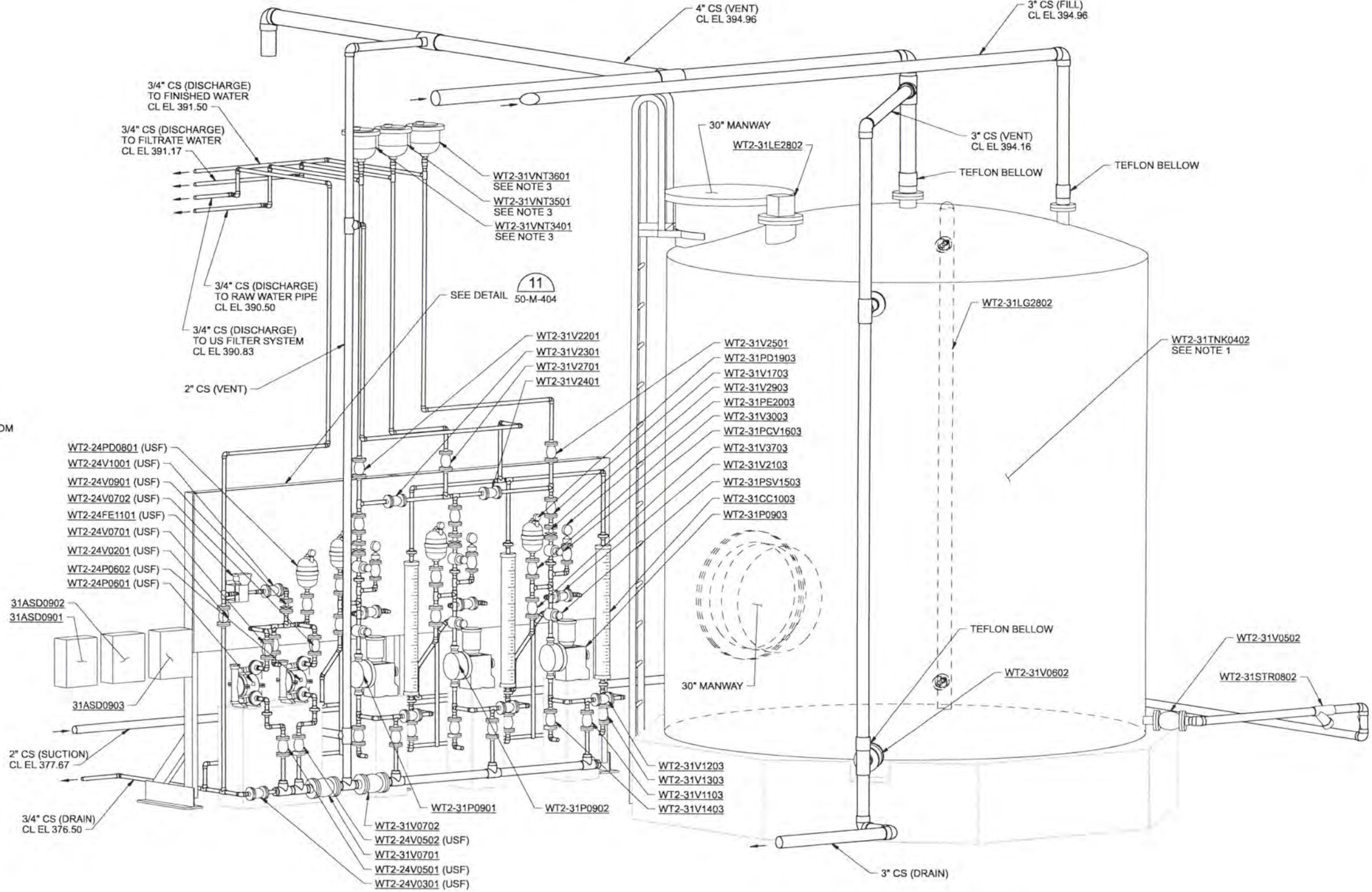
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RW SAMPLE PUMP DETAIL 5
NTS
50-M-134
50-M-202



FW SAMPLE PUMP DETAIL 6
NTS
50-M-131
50-M-203



SODIUM HYPOCHLORITE ISOMETRIC DETAIL 7
NTS
50-M-142
50-M-207

- NOTES:**
1. FOR TANK NOZZLE AND LEVEL SWITCH LOCATIONS, REFER TO TANK DATA SHEETS IN SPECIFICATION SECTION 13205.
 2. CS TANK 1 NOT SHOWN FOR CLARITY.
 3. ROUTE TOP DISCHARGE OF AIR AND VACUUM RELEASE VALVES TO NEAREST VENT PIPE.
 4. VALVES AND APPURTENANCES FOR CS PUMPS 1 AND 2 (WT2-31P0901 AND 02) HAVE NOT BEEN TAGGED FOR CLARITY.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	EN LOUIE				
DR	ER BROWN				
CHK	TP ENGLESON	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	REVISION	BY

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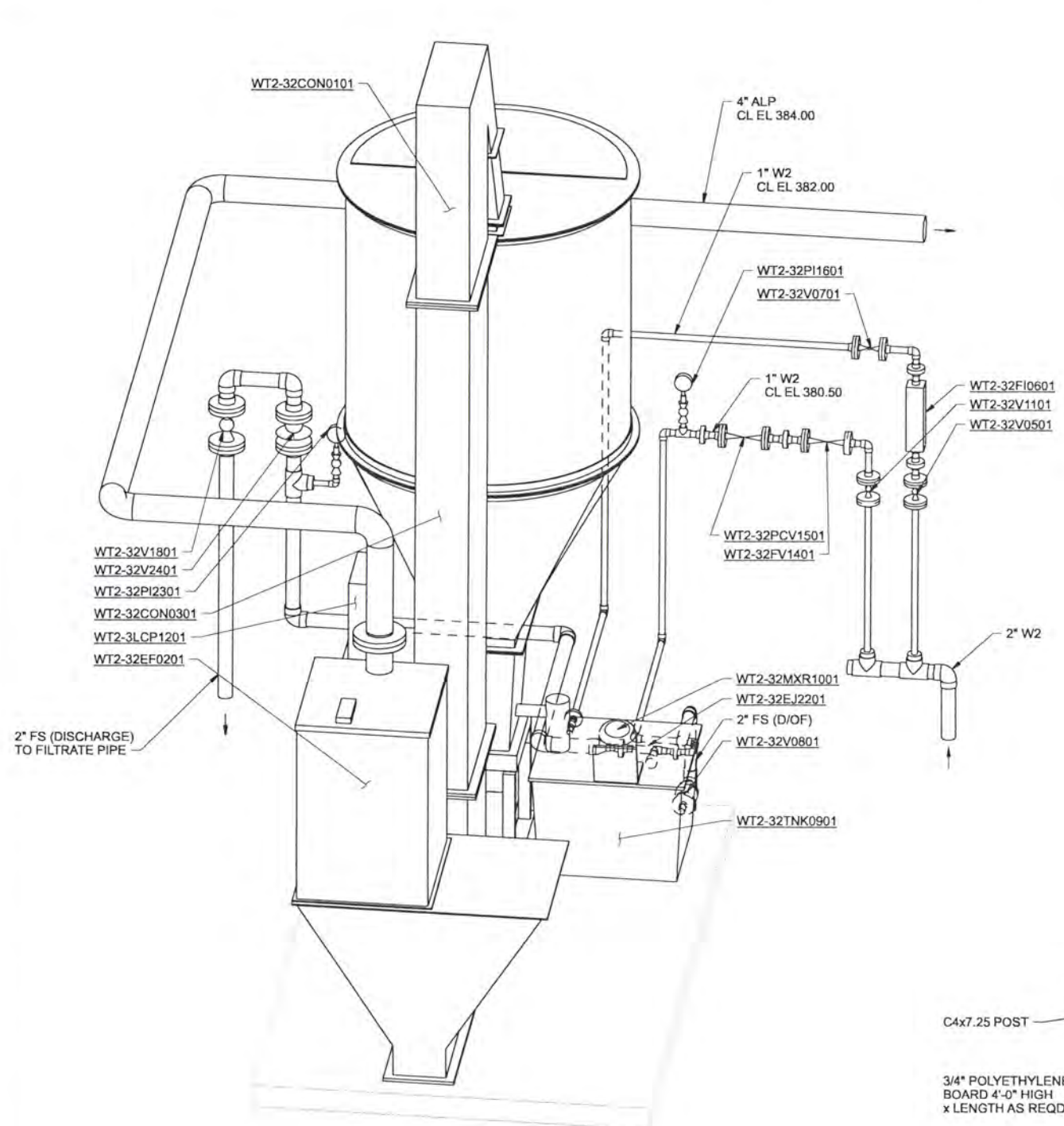


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JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

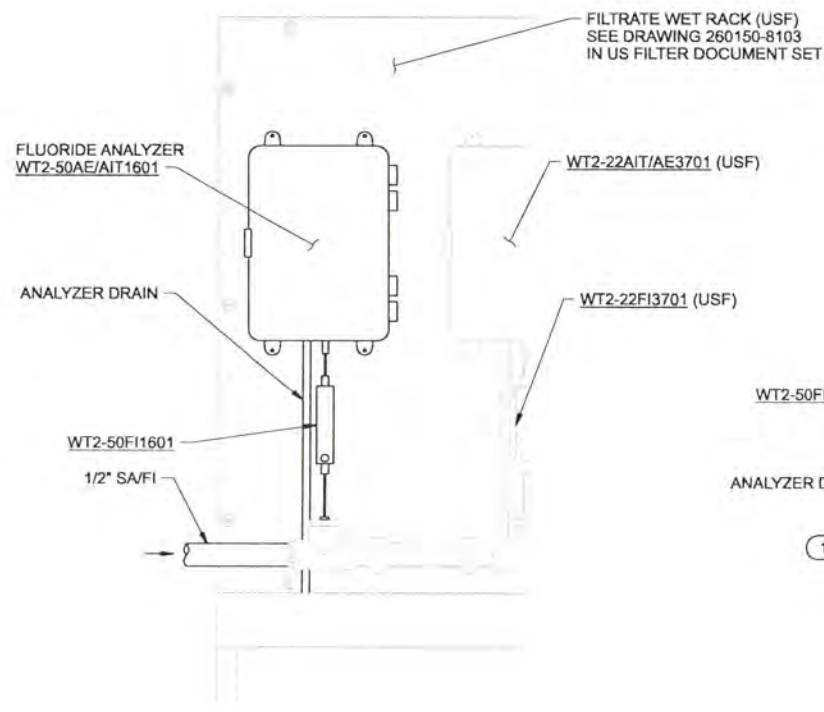
FILTRATION BUILDING
MECHANICAL
DETAILS

SHEET	193
DWG	50-M-403
DATE	APRIL 2004
PROJ	170368

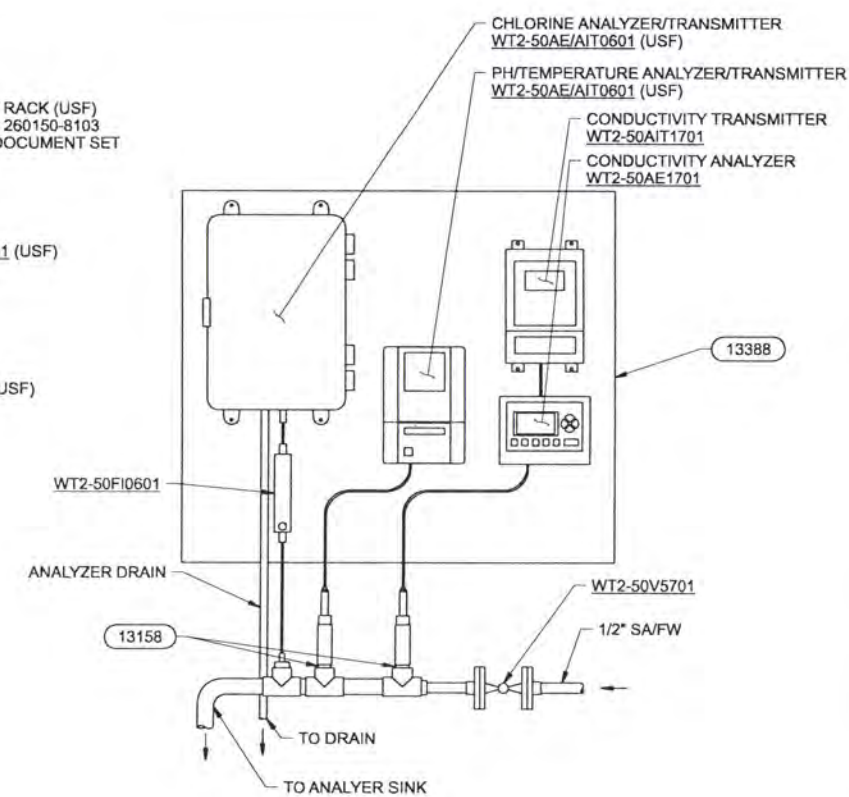
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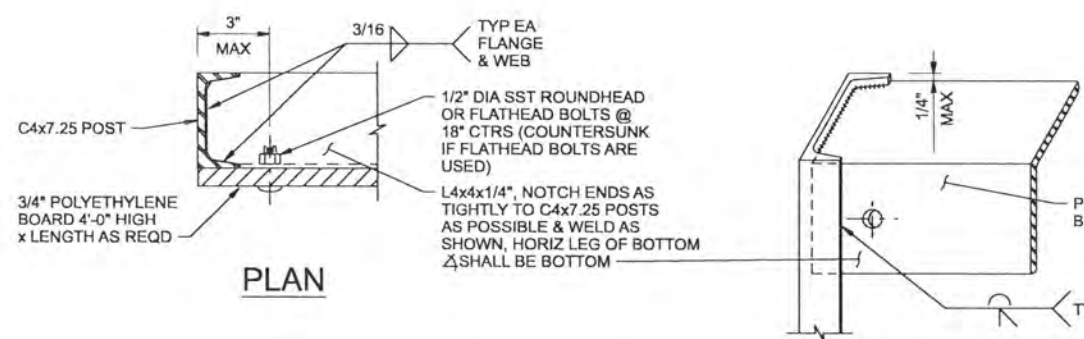
FLUORIDE SOLUTION ISOMETRIC DETAIL 8
 NTS 50-M-142
 50-M-201



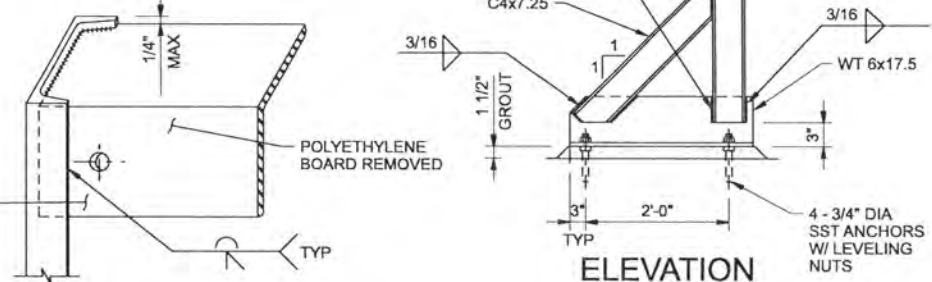
FLUORIDE ANALYZER INSTALLATION DETAIL 9
 NTS 50-M-204



ANALYZER ROOM INSTRUMENTS INSTALLATION DETAIL 10
 NTS 50-M-142



PLAN



ELEVATION

- NOTES:**
- 8'-0" MAXIMUM HEIGHT.
 - 8'-0" MAXIMUM WIDTH BETWEEN LEGS.

PANEL BOARD SUPPORT FRAME DETAIL 11
 NTS 50-M-401
 50-M-402
 50-M-403

RECORD DRAWINGS

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DSGN	EN LOUIE/B YOUKER						
DR	ER BROWN						
CHK	TP ENGLESON	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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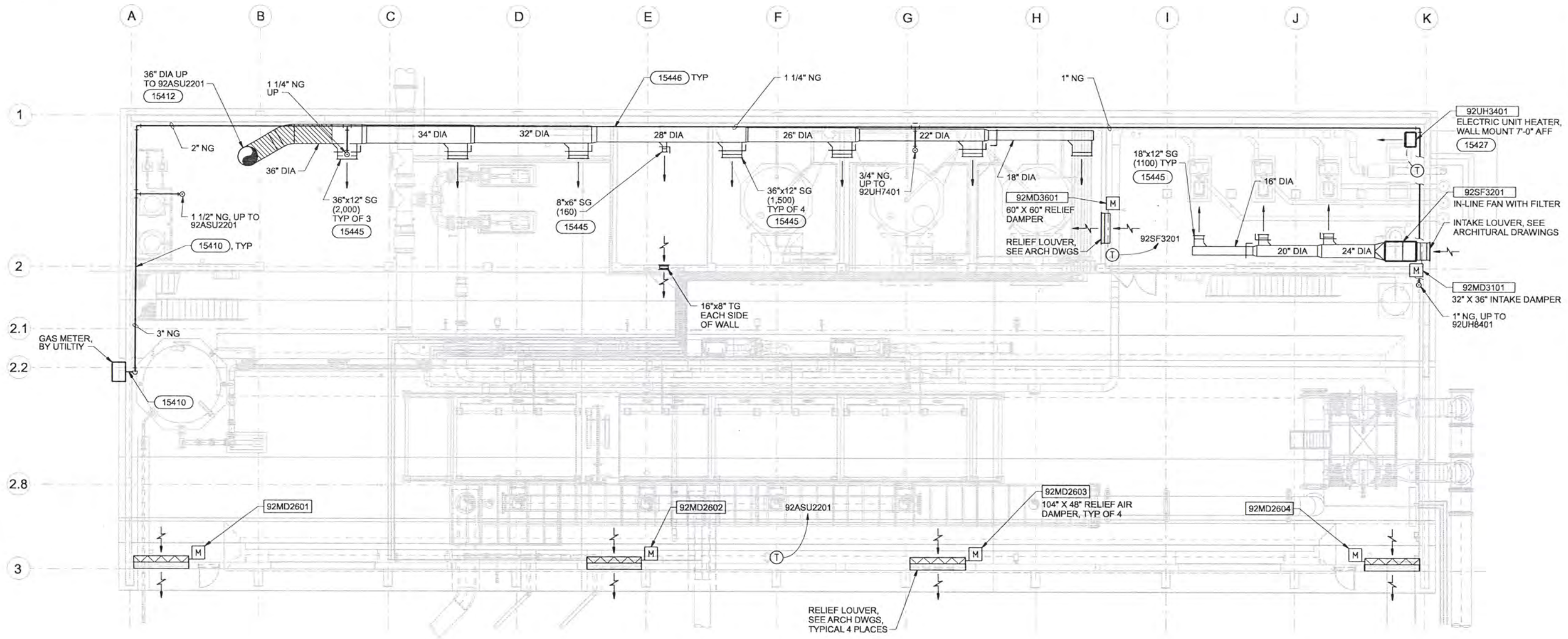


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 MECHANICAL
 DETAILS

SHEET	194
DWG	50-M-404
DATE	APRIL 2004
PROJ	170368

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HVAC LOWER FLOOR PLAN
1/8"=1'-0"

RECORD DRAWINGS

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DSGN	KL WELP						
DR	RK COWAN						
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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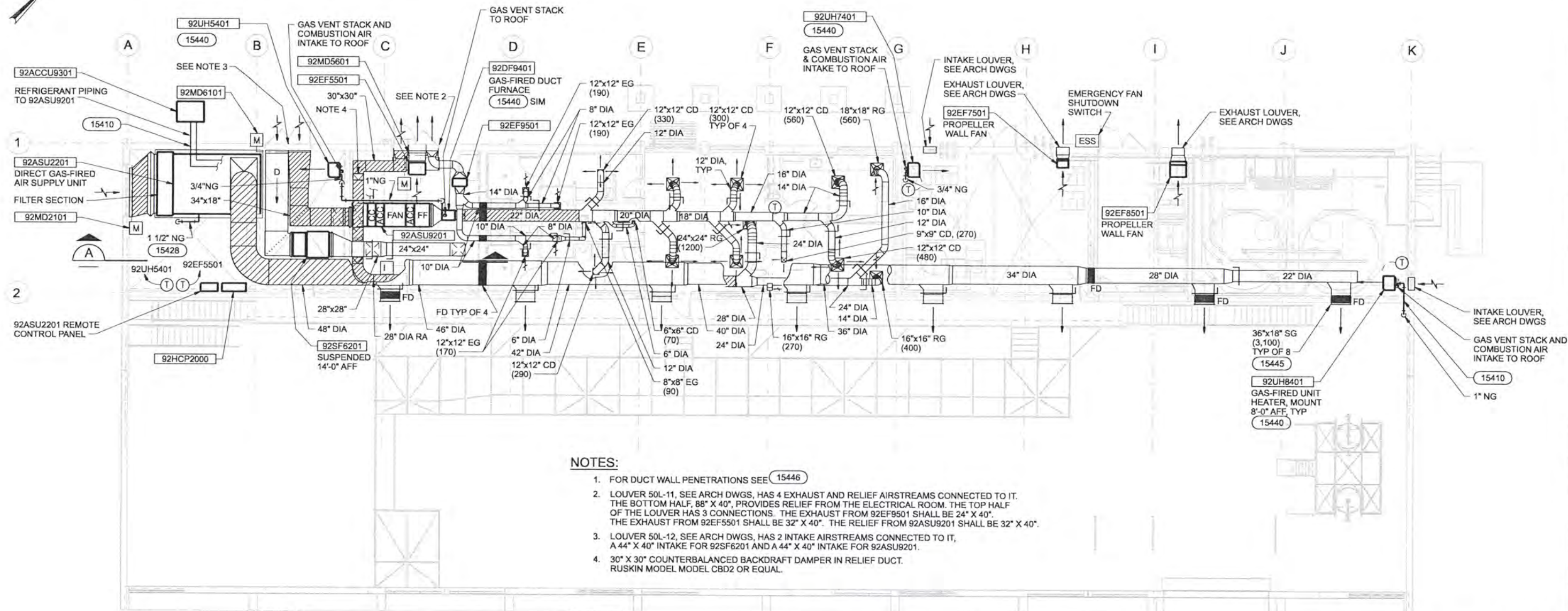


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

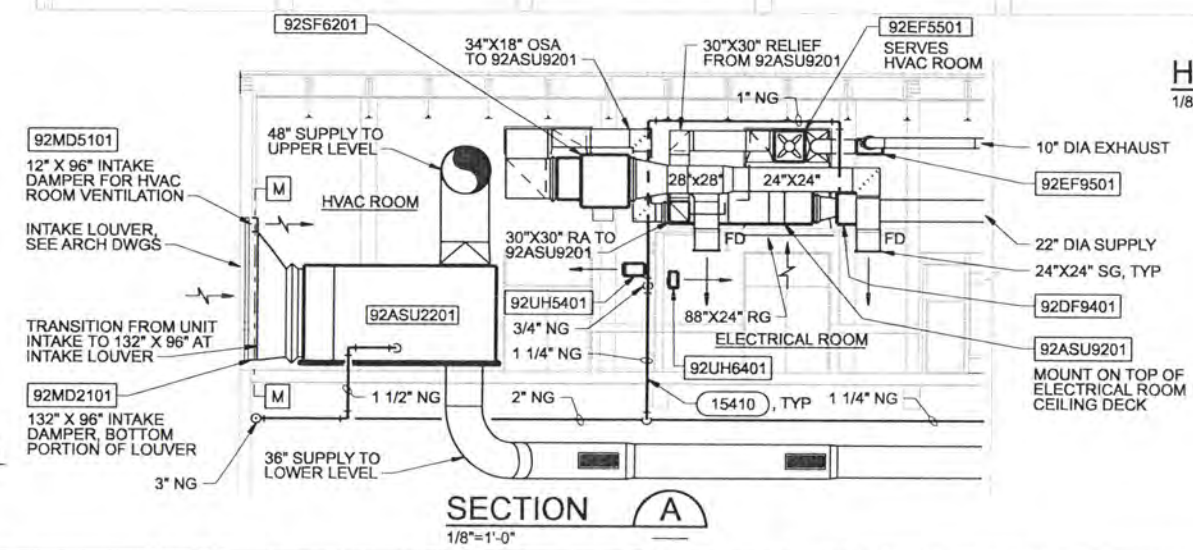
FILTRATION BUILDING
 HVAC
 OVERALL LOWER FLOOR PLAN

SHEET	195
DWG	50-H-130
DATE	APRIL 2004
PROJ	170368

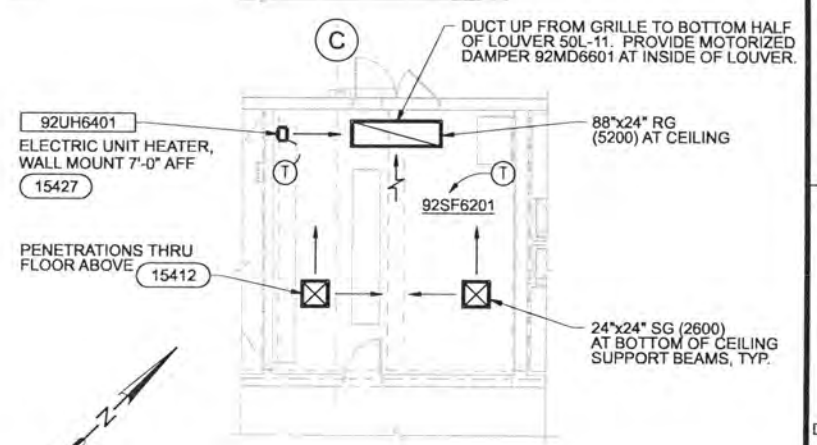
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- NOTES:**
1. FOR DUCT WALL PENETRATIONS SEE 15446
 2. LOUVER 50L-11, SEE ARCH DWGS, HAS 4 EXHAUST AND RELIEF AIRSTREAMS CONNECTED TO IT. THE BOTTOM HALF, 88" X 40", PROVIDES RELIEF FROM THE ELECTRICAL ROOM. THE TOP HALF OF THE LOUVER HAS 3 CONNECTIONS. THE EXHAUST FROM 92EF9501 SHALL BE 24" X 40". THE EXHAUST FROM 92EF5501 SHALL BE 32" X 40". THE RELIEF FROM 92ASU9201 SHALL BE 32" X 40".
 3. LOUVER 50L-12, SEE ARCH DWGS, HAS 2 INTAKE AIRSTREAMS CONNECTED TO IT, A 44" X 40" INTAKE FOR 92SF6201 AND A 44" X 40" INTAKE FOR 92ASU9201.
 4. 30" X 30" COUNTERBALANCED BACKDRAFT DAMPER IN RELIEF DUCT. RUSKIN MODEL MODEL CBD2 OR EQUAL.



HVAC UPPER FLOOR PLAN
1/8"=1'-0"



ELECTRICAL ROOM PLAN
1/8"=1'-0"

RECORD DRAWINGS
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USGN	KL WELP								
DR	RK COWAN								
CHK	TJ REJFIR								
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			
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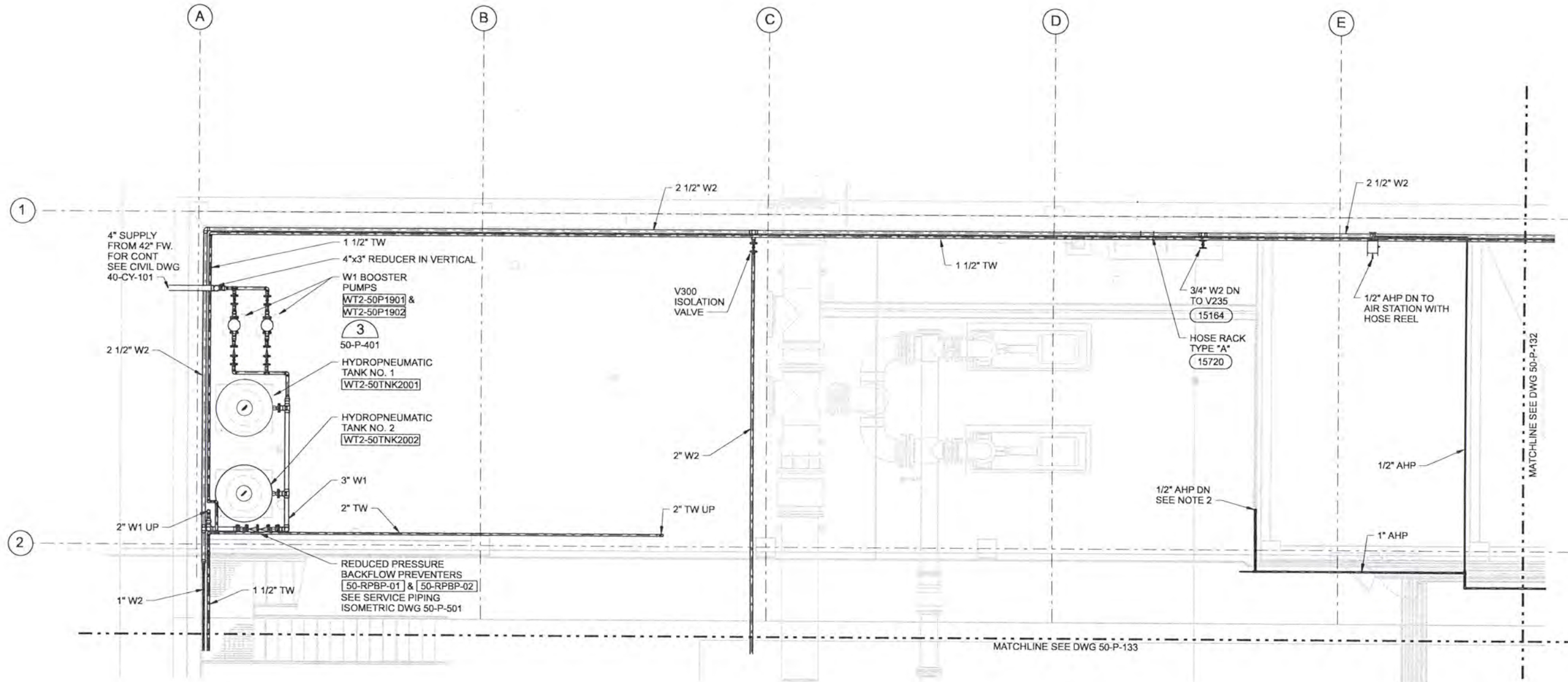


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
HVAC
OVERALL UPPER FLOOR PLANS
AND SECTION

SHEET	196
DWG	50-H-140
DATE	APRIL 2004
PROJ	170368

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LOWER LEVEL PLAN-AREA A
1/4"=1'-0"

NOTES:

- 1. FOR CONTINUATION OF PIPING UP SEE DWG 50-P-141.
- 2. FOR AHP PIPING FINAL CONNECTIONS SEE AIR PIPING SYSTEM ISOMETRIC DIAGRAM DWG 50-P-503.

A	B
C	D

KEY PLAN

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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DSGN	AG OLSON								
DR	JS WILLIAMSON								
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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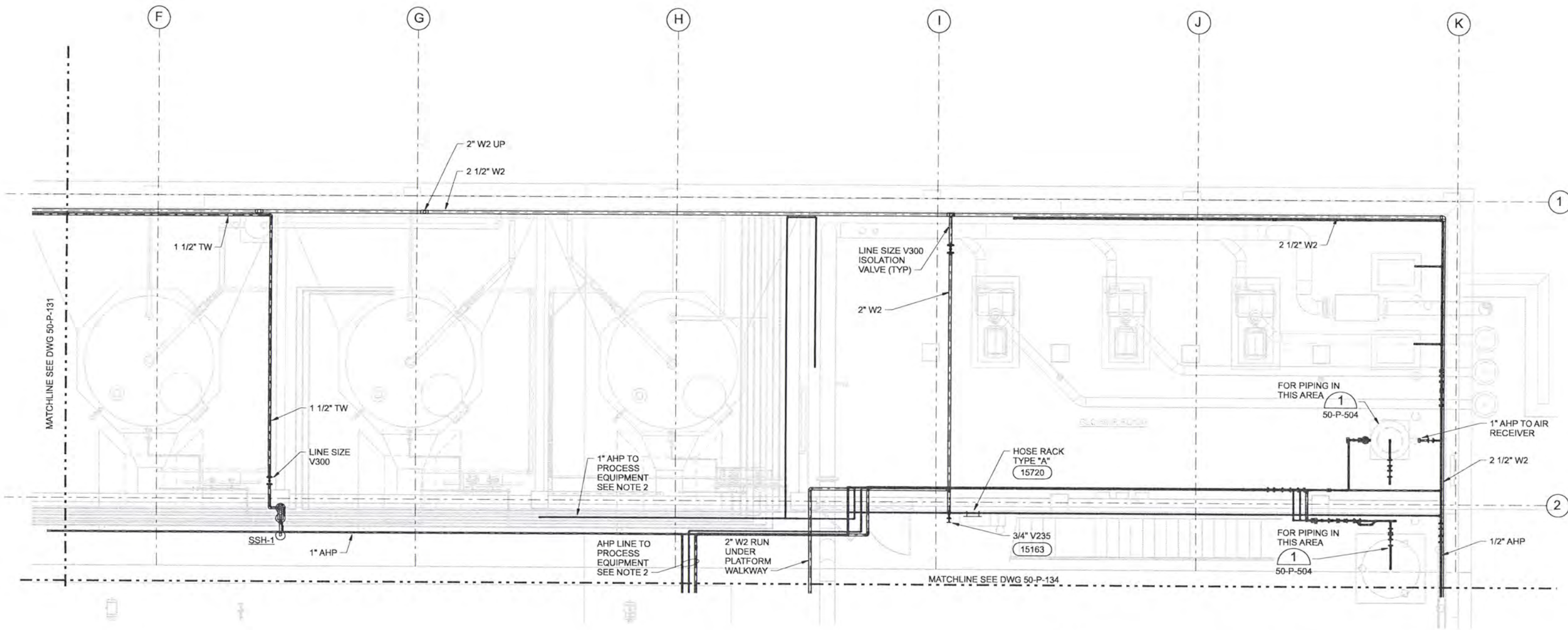


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
PLUMBING
LOWER LEVEL SERVICE PIPING PLAN
AREA A

SHEET	197
DWG	50-P-131
DATE	APRIL 2004
PROJ	170368

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LOWER LEVEL PLAN-AREA B
1/4"=1'-0"

NOTES:

1. FOR CONTINUATION OF PIPING UP SEE DWG 50-P-141.
2. FOR AHP PIPING FINAL CONNECTIONS SEE AIR PIPING SYSTEM ISOMETRIC DIAGRAM DWG 50-P-503.

A	B
C	D

KEY PLAN

RECORD DRAWINGS

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DSGN	AG OLSON								
DR	JS WILLIAMSON								
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	BY	APVD				

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CH2MHILL

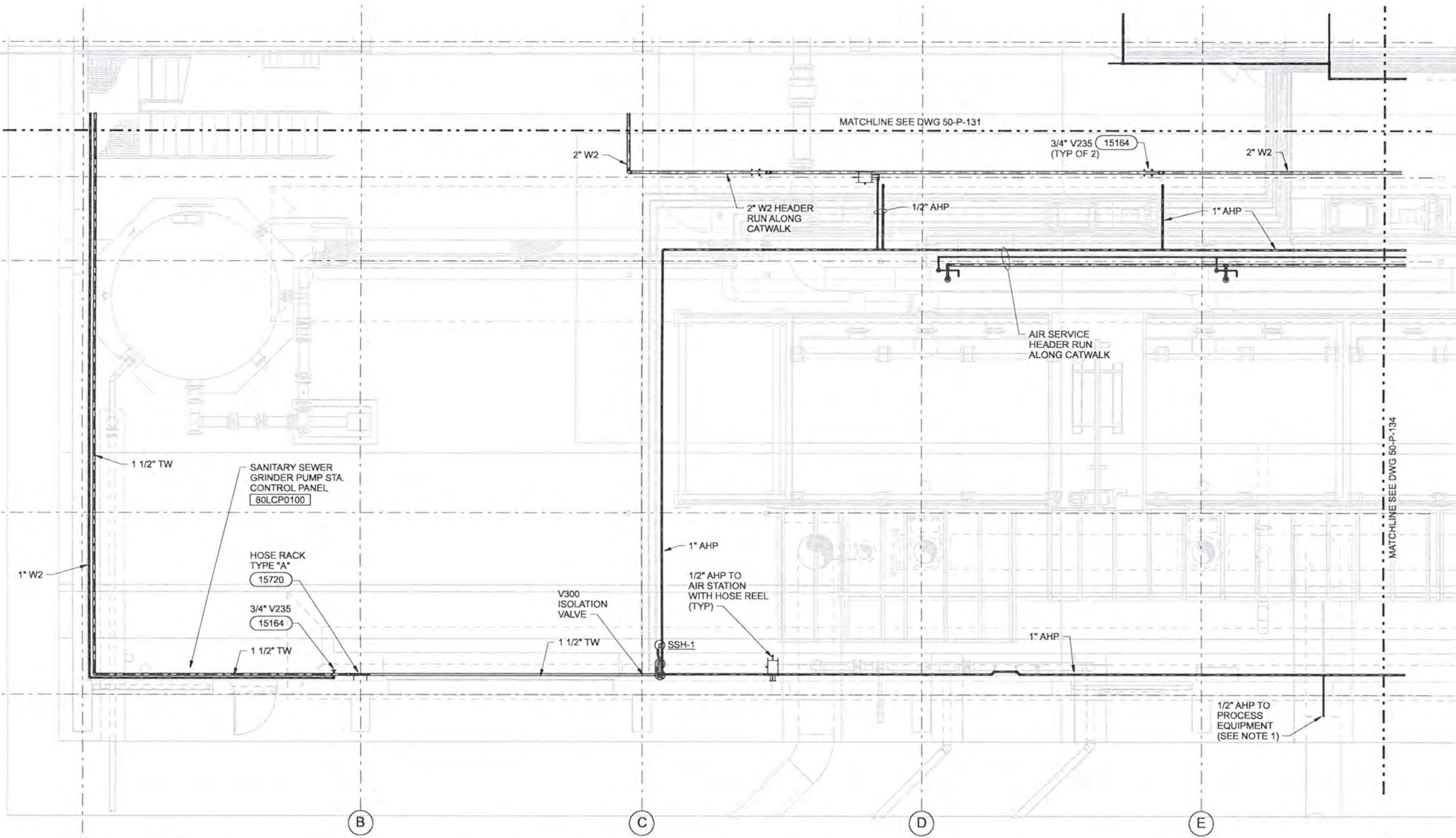
ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
PLUMBING
LOWER LEVEL SERVICE PIPING PLAN
AREA B

SHEET	198
DWG	50-P-132
DATE	APRIL 2004
PROJ	170368



2
2.1
2.2
2.8
3



NOTES:
1. FOR AHP PIPING FINAL CONNECTIONS SEE AIR PIPING SYSTEM ISOMETRIC DIAGRAM DWG 50-P-503.

LOWER LEVEL PLAN-AREA C
1/4"=1'-0"

A	B
C	D

KEY PLAN

RECORD DRAWINGS

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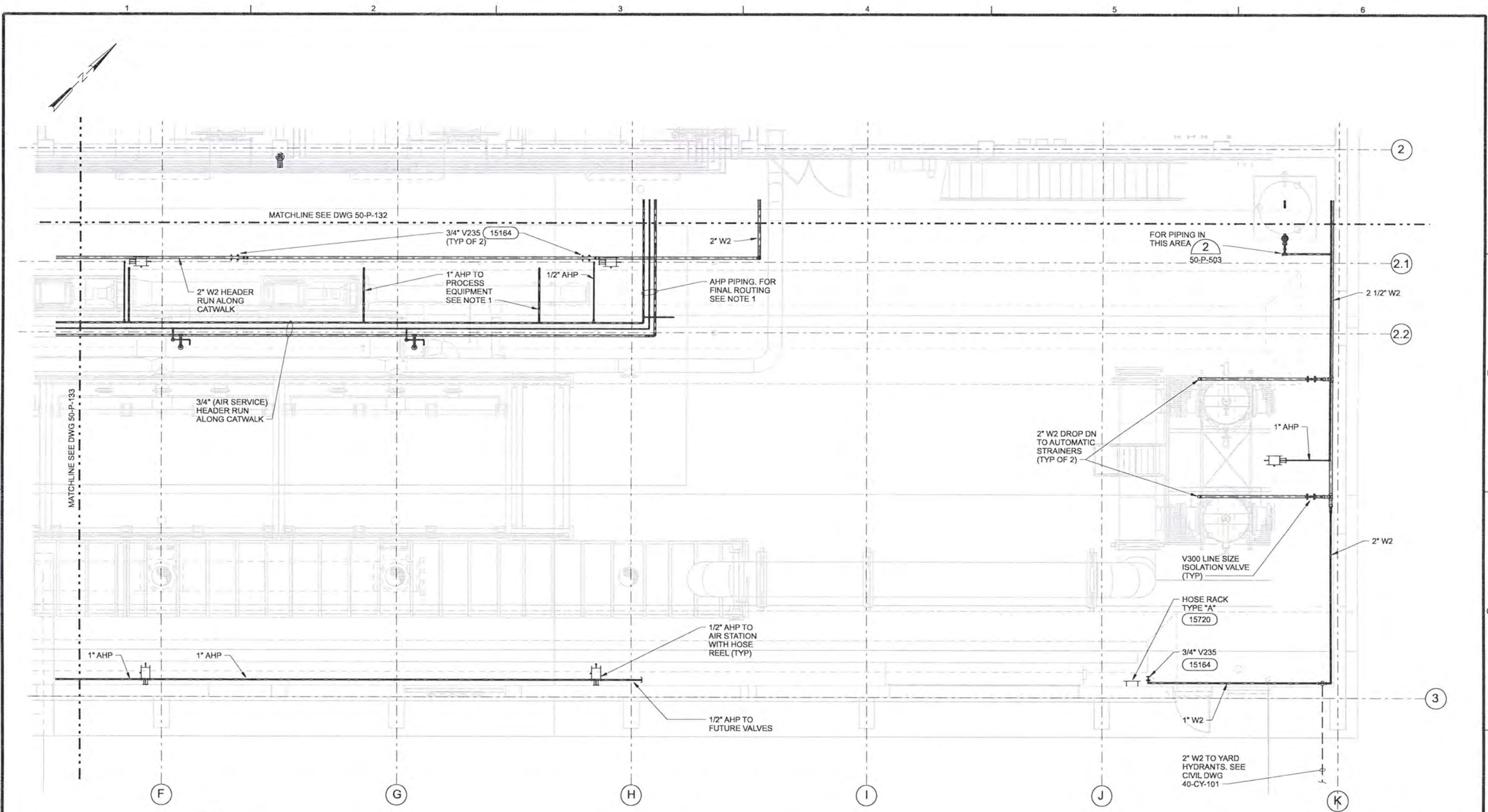


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
PLUMBING
LOWER LEVEL SERVICE PIPING PLAN
AREA C

SHEET	199
DWG	50-P-133
DATE	APRIL 2004
PROJ	170368

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NOTES:

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LOWER LEVEL PLAN-AREA D
1/4"=1'-0"

A	B
C	D

KEY PLAN

RECORD DRAWINGS

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DR	JS WILLIAMSON								
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	BY	APVD				

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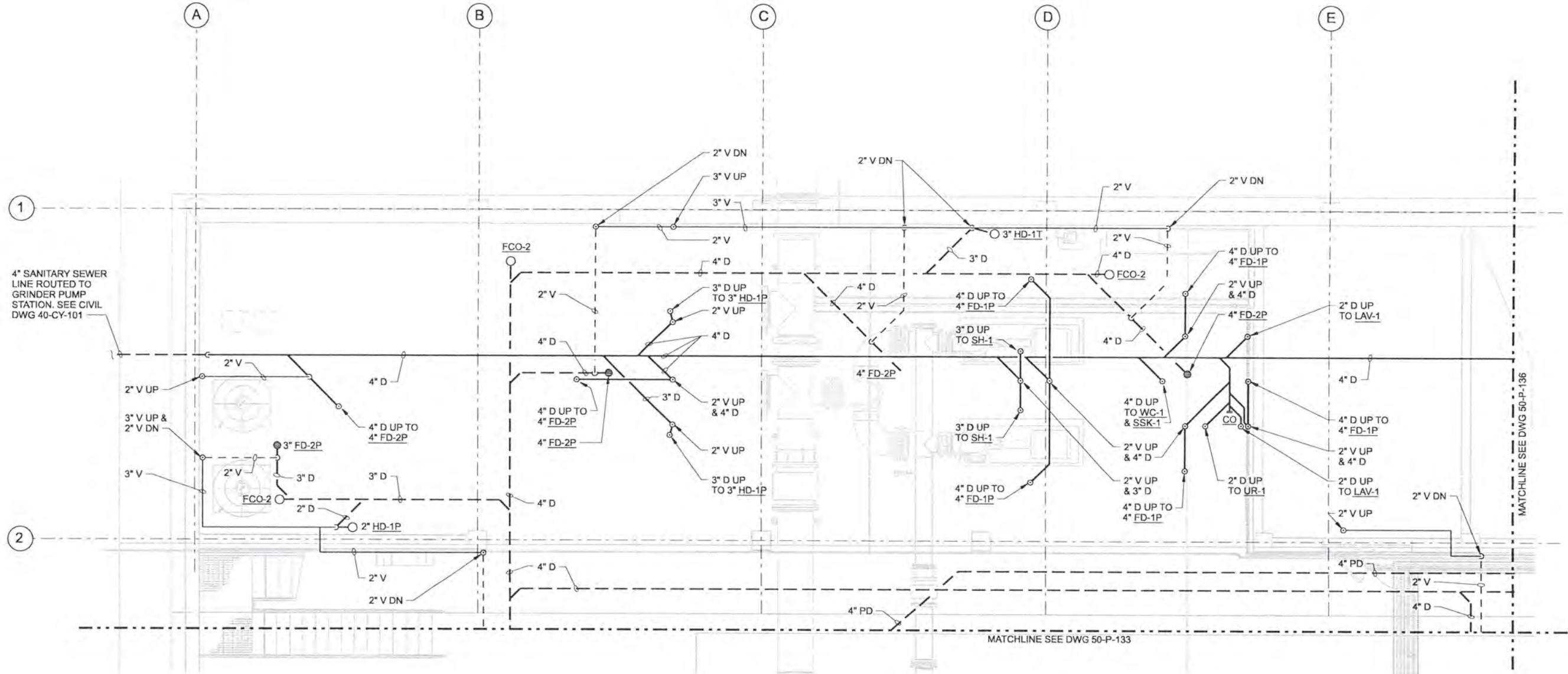


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 PLUMBING
 LOWER LEVEL SERVICE PIPING PLAN
 AREA D

SHEET	200
DWG	50-P-134
DATE	APRIL 2004
PROJ	170368

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PLAN-AREA A
1/4"=1'-0"

- NOTES:**
- FOR CONTINUATION OF PIPING UP SEE DWG 50-P-145.

A	B
C	D

KEY PLAN

RECORD DRAWINGS

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DR	JS WILLIAMSON						
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD		

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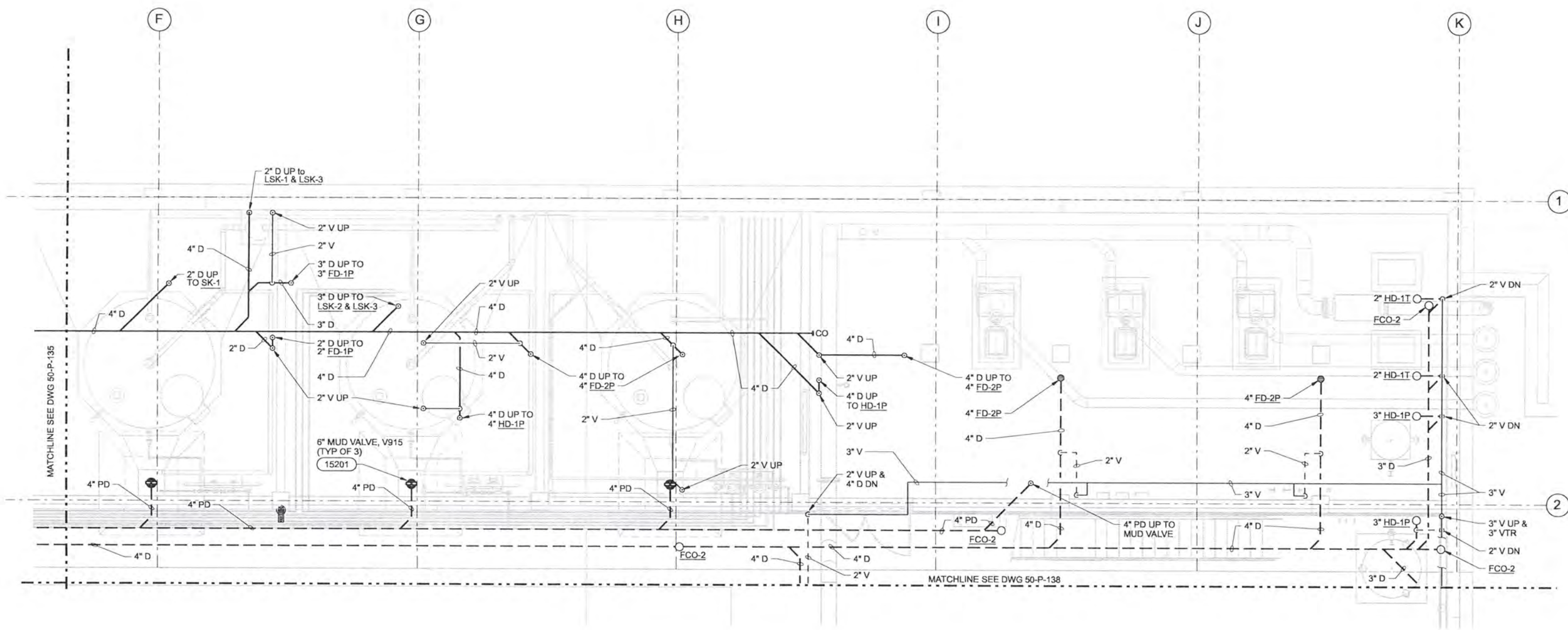


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 PLUMBING
 LOWER LEVEL WASTE & VENT PIPING PLAN
 AREA A

SHEET	201
DWG	50-P-135
DATE	APRIL 2004
PROJ	170368

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WASTE & VENT PLAN-AREA B
1/4"=1'-0"

NOTES:

- FOR CONTINUATION OF PIPING UP SEE DWG 50-P-146.

A	B
C	D

KEY PLAN

RECORD DRAWINGS

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DR	JS WILLIAMSON				
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

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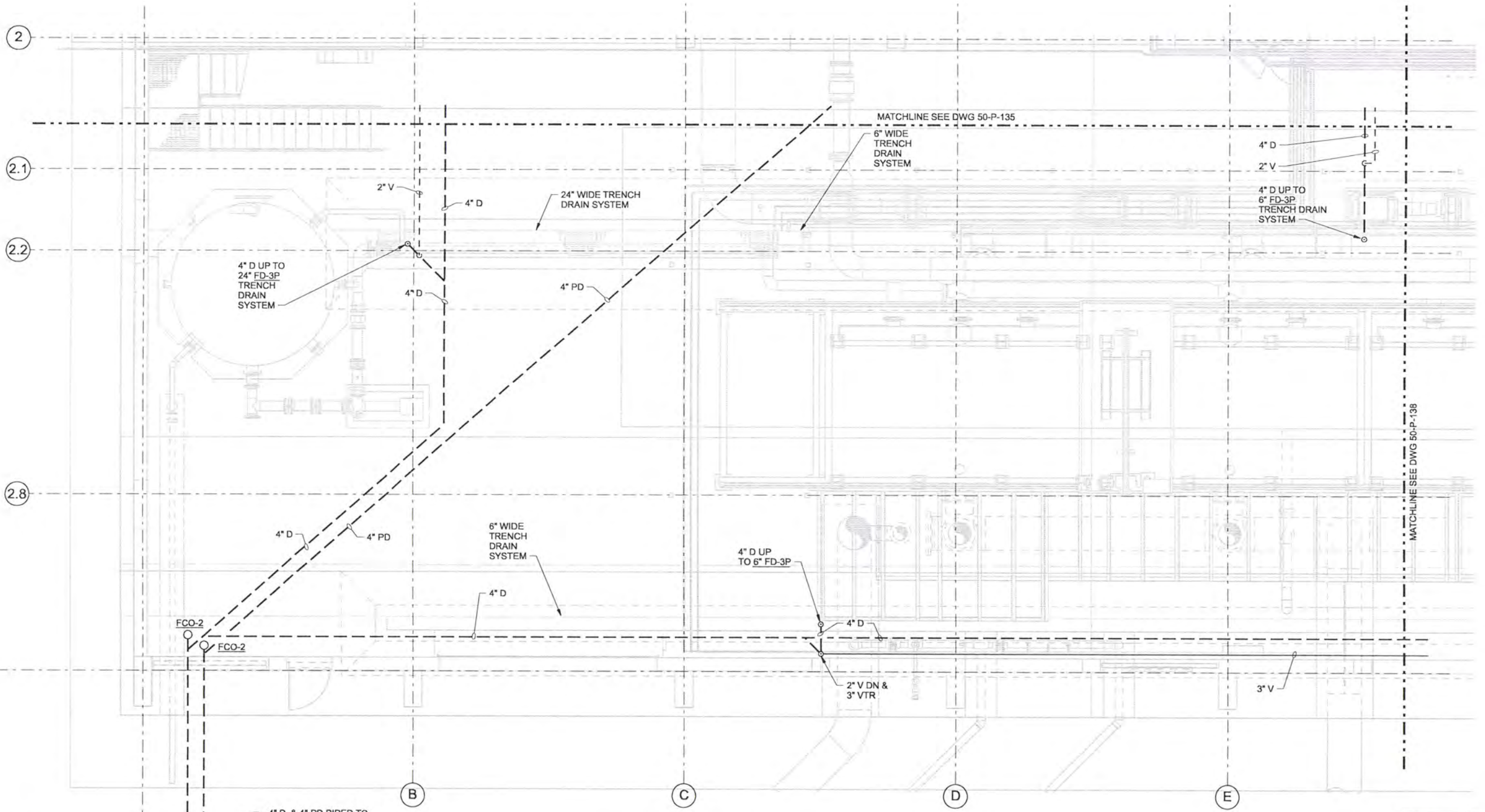


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 PLUMBING
 LOWER LEVEL WASTE & VENT PIPING PLAN
 AREA B

SHEET	202
DWG	50-P-136
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

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DSGN	AG OLSON								
DR	JS WILLIAMSON								
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	BY	APVD				

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CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 PLUMBING
 LOWER FLOOR WASTE & VENT PIPING PLAN
 AREA C

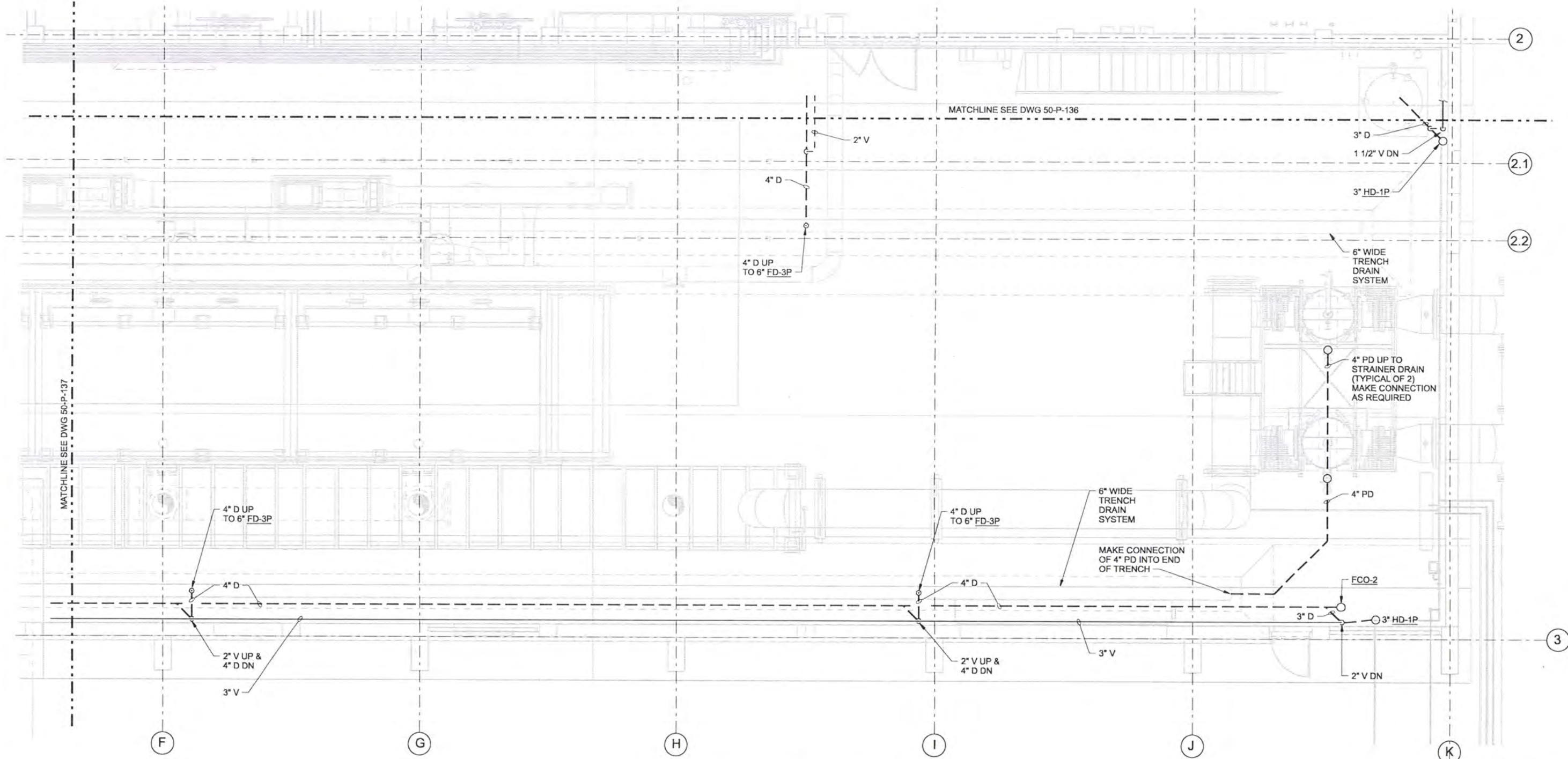
SHEET	203
DWG	50-P-137
DATE	APRIL 2004
PROJ	170368

LOWER FLOOR PLAN-AREA C
 1/4"=1'-0"

A	B
C	D

KEY PLAN

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DSGN	AG OLSON								
DR	JS WILLIAMSON								
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	BY	APVD				

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 PLUMBING
 LOWER FLOOR WASTE & VENT PIPING PLAN
 AREA D

SHEET	204
DWG	50-P-138
DATE	APRIL 2004
PROJ	170368

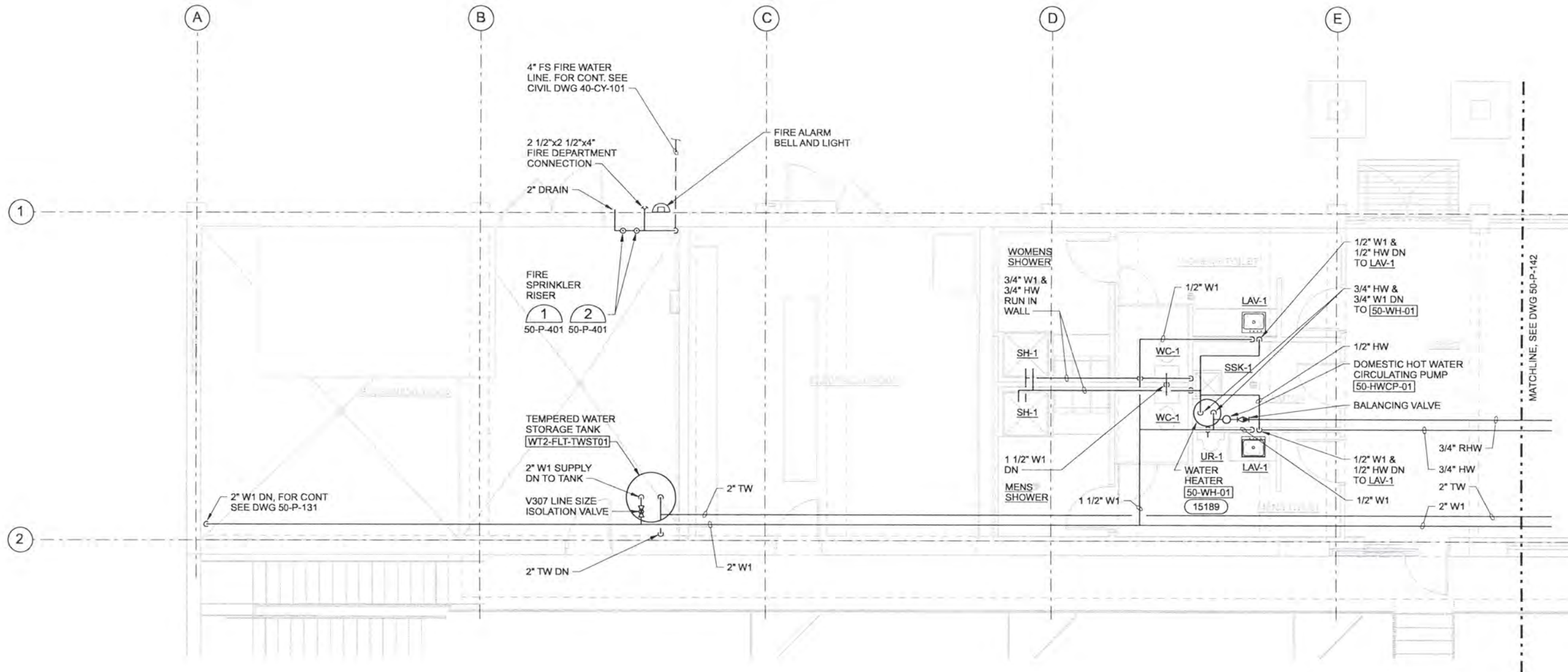
LOWER FLOOR PLAN-AREA D

1/4"=1'-0"

A	B
C	D

KEY PLAN

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NOTES:
 1. FOR CONTINUATION OF PIPING DOWN SEE DWG 50-P-131.

UPPER FLOOR PLAN - AREA A
 1/4"=1'-0"



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DSGN	AG OLSON								
DR	JS WILLIAMSON								
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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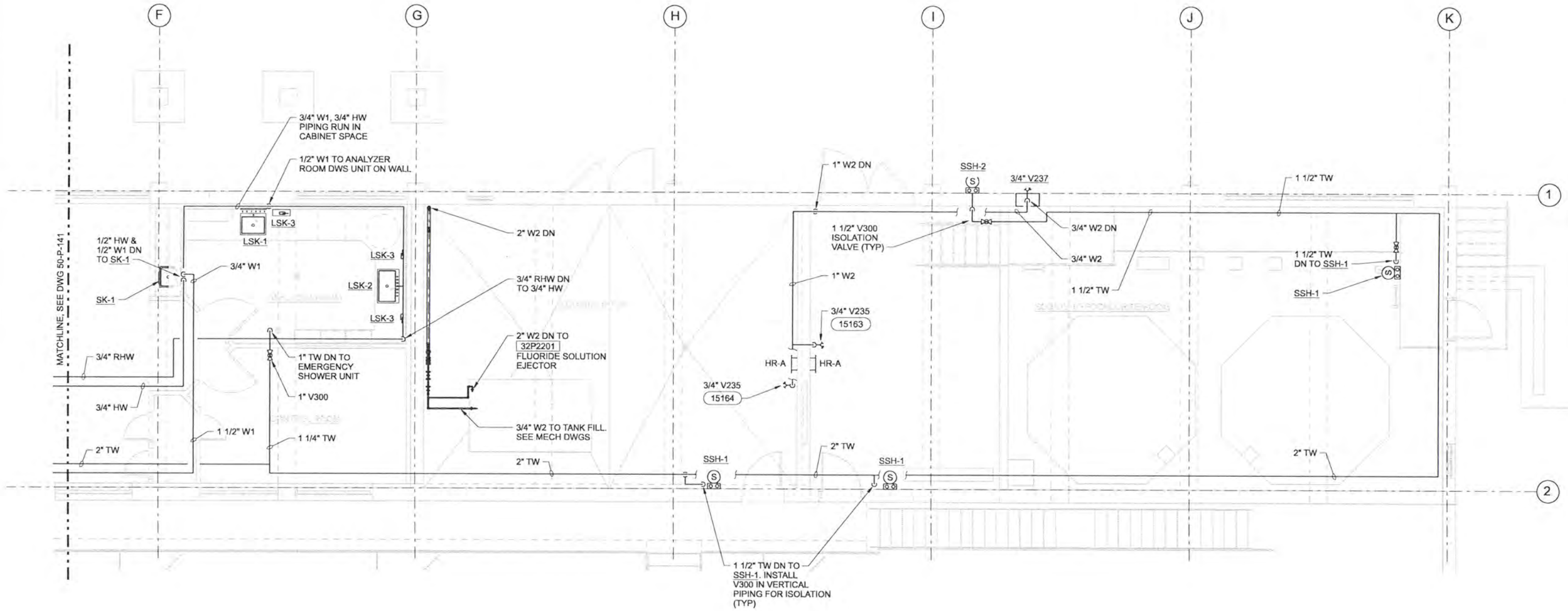


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 PLUMBING
 UPPER FLOOR PLAN SERVICE PIPING
 AREA A

SHEET	205
DWG	50-P-141
DATE	APRIL 2004
PROJ	170368

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UPPER FLOOR PLAN - AREA B
1/4"=1'-0"

NOTES:

1. FOR PIPING OF LSK UNITS COORDINATE WITH SPEC 12345.
2. FOR CONTINUATION OF PIPING DOWN SEE DWG 50-P-132.



RECORD DRAWINGS

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DSGN	AG OLSON						
DR	JS WILLIAMSON						
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF		
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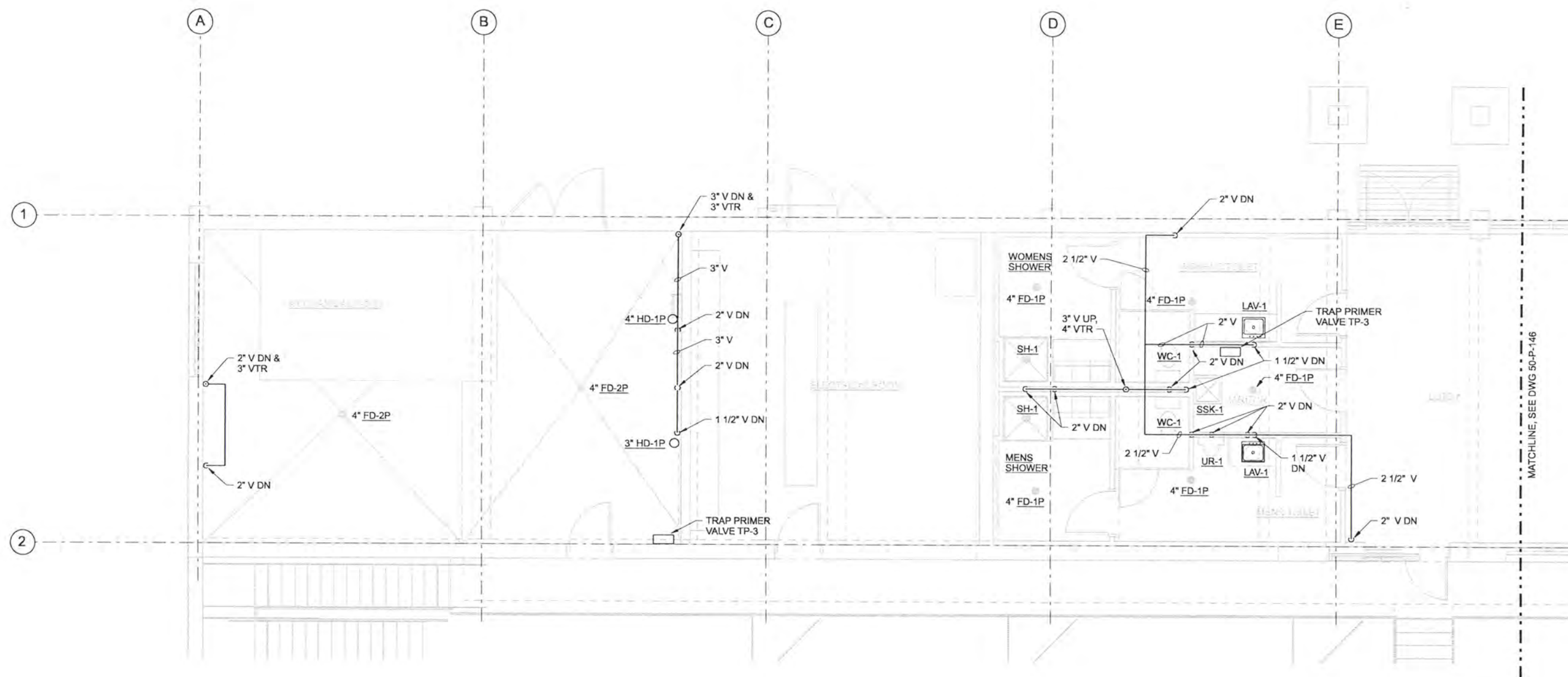
CH2MHILL

ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
PLUMBING
UPPER FLOOR PLAN SERVICE PIPING
AREA B

SHEET	206
DWG	50-P-142
DATE	APRIL 2004
PROJ	170368

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UPPER FLOOR PLAN - AREA A
1/4"=1'-0"



RECORD DRAWINGS

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DSGN	AG OLSON						
DR	JS WILLIAMSON						
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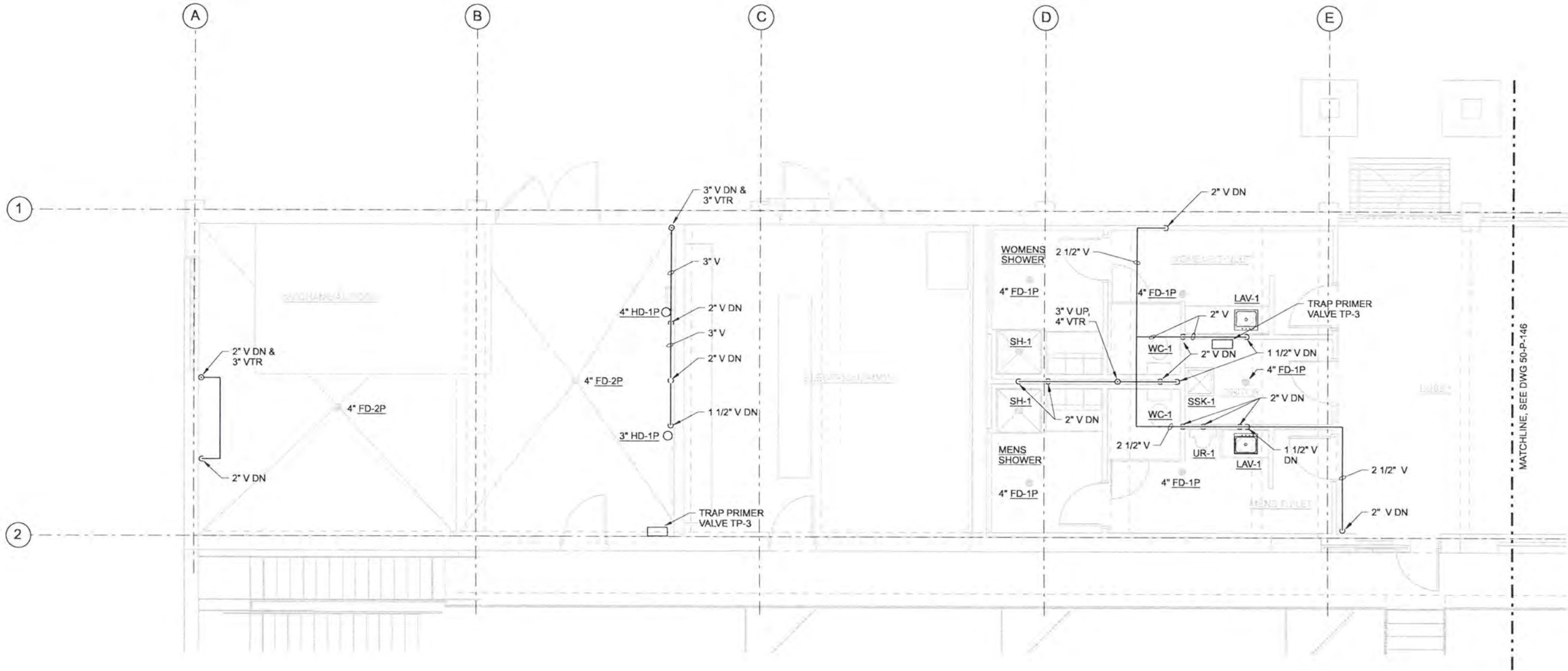


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

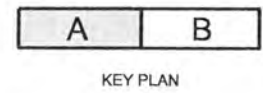
FILTRATION BUILDING
 PLUMBING
 UPPER FLOOR PLAN WASTE & VENT PIPING
 AREA A

SHEET	207
DWG	50-P-145
DATE	APRIL 2004
PROJ	170368

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UPPER FLOOR PLAN - AREA A
1/4"=1'-0"



RECORD DRAWINGS

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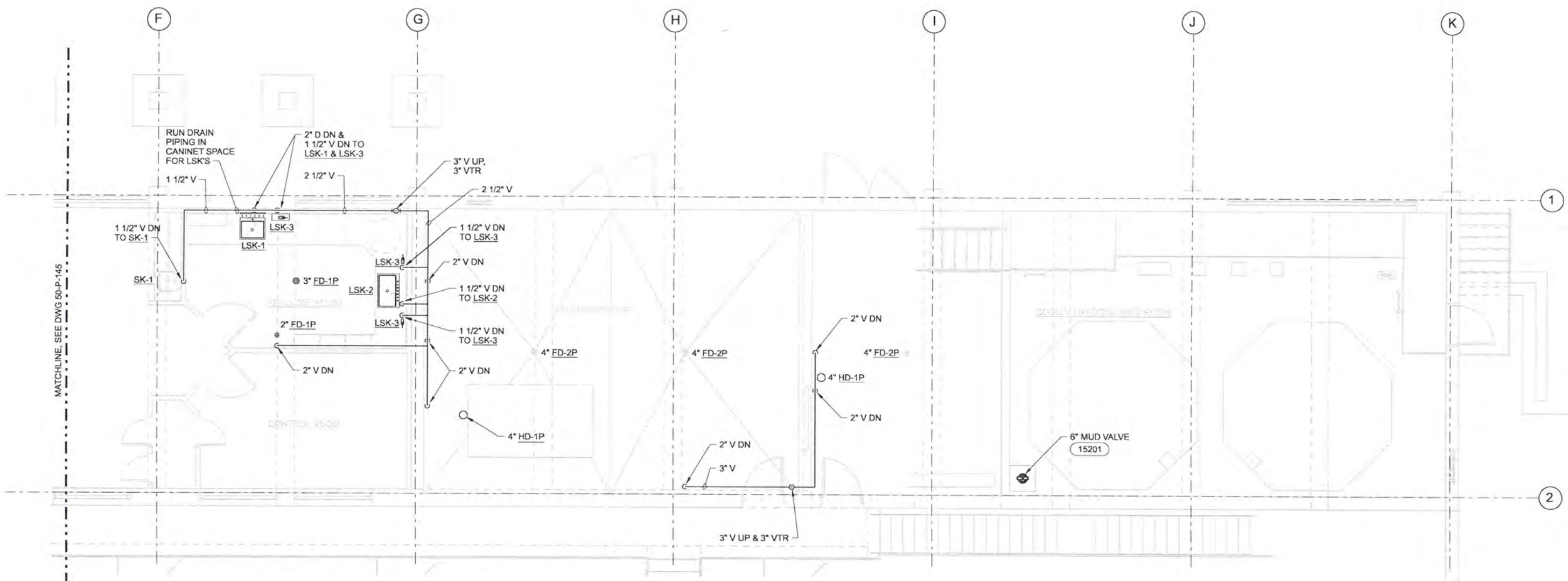


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

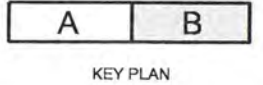
FILTRATION BUILDING
 PLUMBING
 UPPER FLOOR PLAN WASTE & VENT PIPING
 AREA A

SHEET	207
DWG	50-P-145
DATE	APRIL 2004
PROJ	170368

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UPPER FLOOR PLAN - AREA B
1/4"=1'-0"



RECORD DRAWINGS

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DSGN	AG OLSON						
DR	JS WILLIAMSON						
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD		

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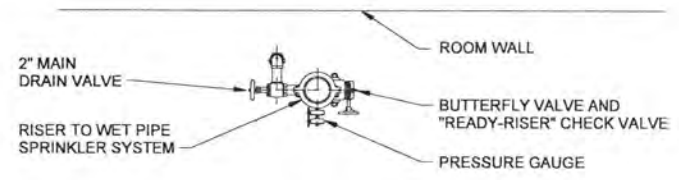


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

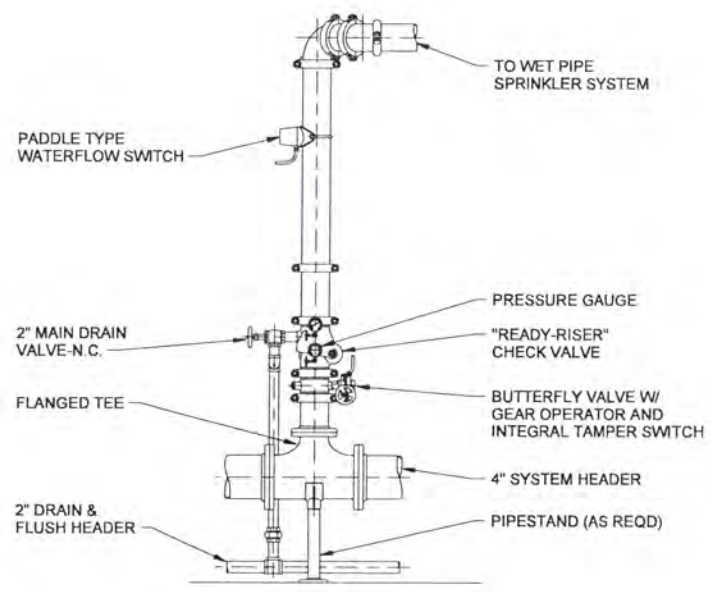
FILTRATION BUILDING
 PLUMBING
 UPPER FLOOR PLAN WASTE & VENT PIPING
 AREA B

SHEET	208
DWG	50-P-146
DATE	APRIL 2004
PROJ	170368

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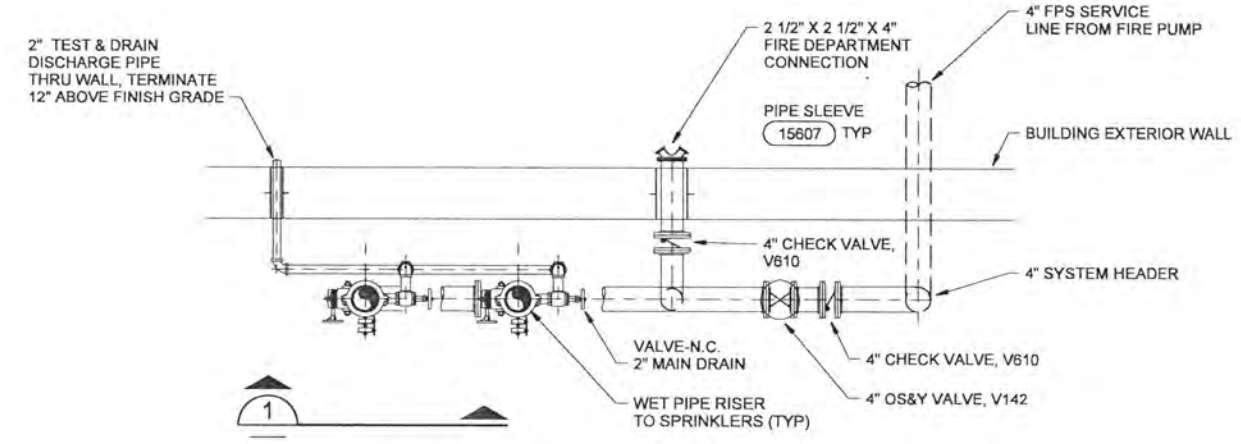
PLAN OF RISER



ELEVATION OF RISER

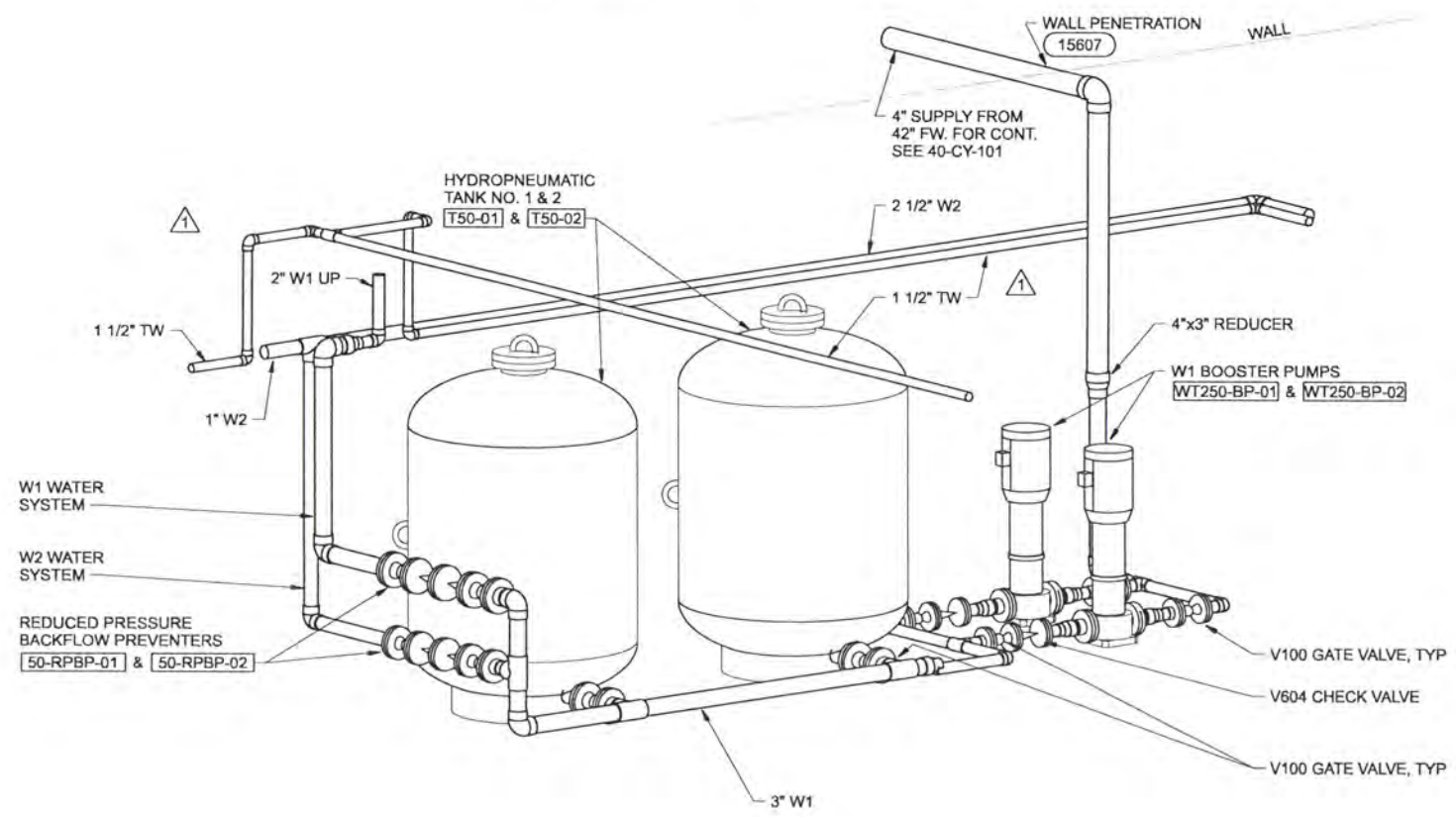
- WET PIPE SYSTEM RISER NOTES:**
1. ALL WATER SUPPLY CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED TO THEIR NORMAL POSITIONS.
 2. "N.C." DENOTES A NORMALLY CLOSED VALVE.

FIRE SPRINKLER RISER DETAIL 1
NTS 50-P-141



MECHANICAL ROOM

FIRE SPRINKLER RISER PLAN 2
NTS 50-P-141



W1 WATER SYSTEM DIAGRAM 3
NTS 50-P-131

RECORD DRAWINGS

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DSGN	AG OLSON	6/2006 11/03	RECORD DRAWING ADDENDUM NO. 1	JMD JSW	RCF AGO	BY	APVD
DR	JS WILLIAMSON						
CHK	TJ REJFIR						
APVD	CW MASSIE						
NO.	DATE	REVISION					

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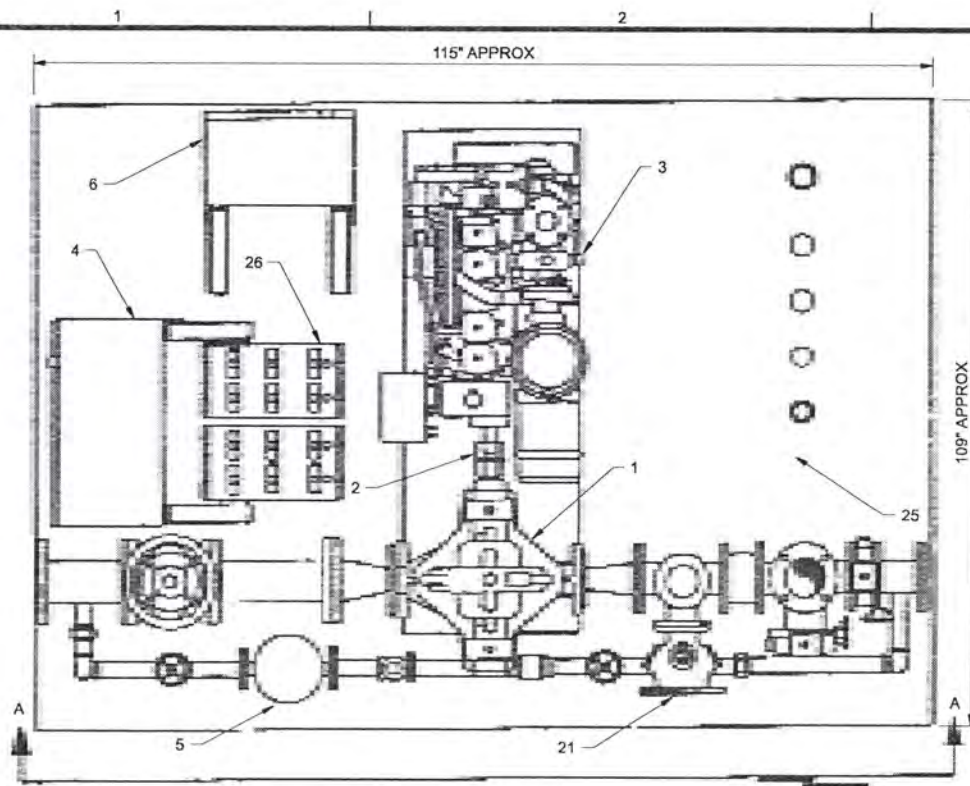


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

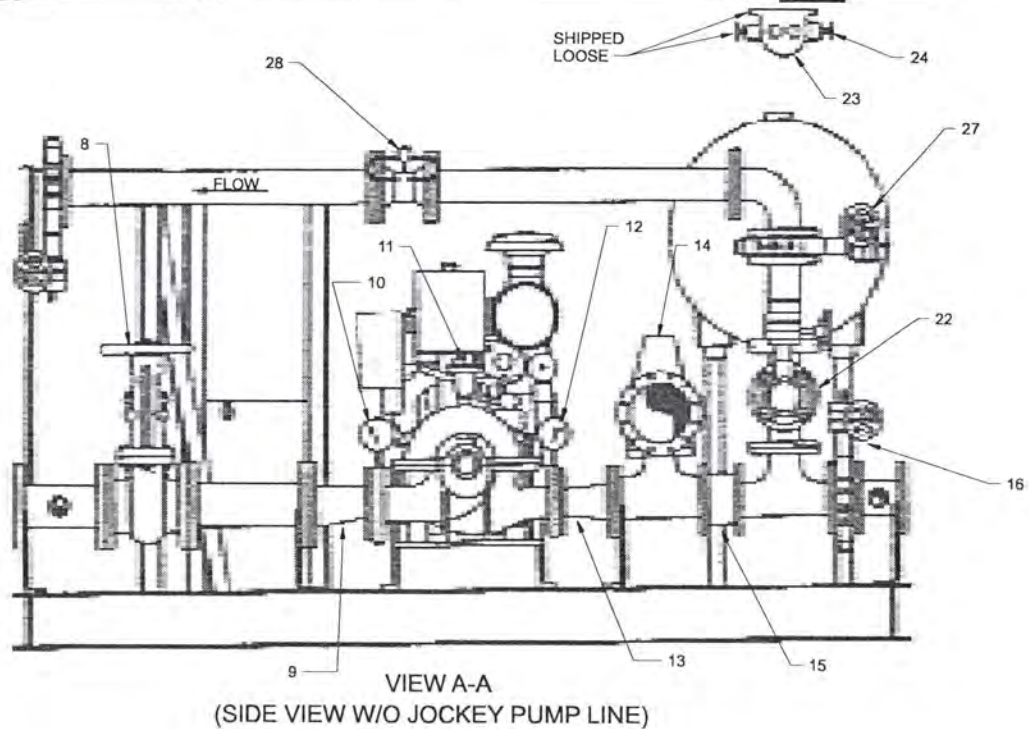
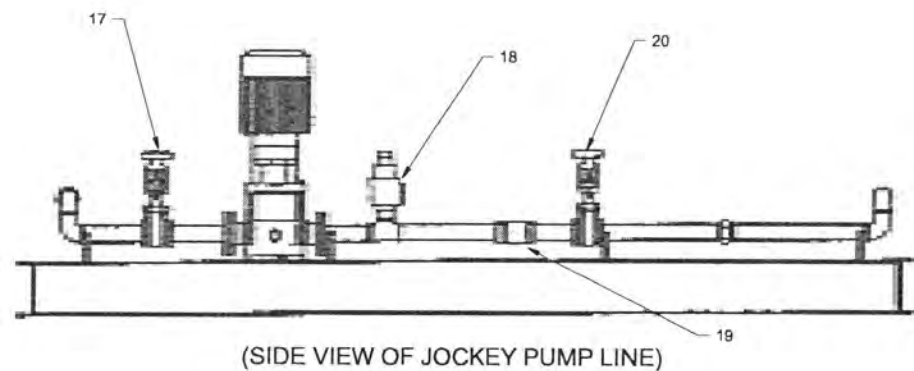
FILTRATION BUILDING
 PLUMBING
 DETAILS

SHEET	209
DWG	50-P-401
DATE	APRIL 2004
PROJ	170368

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NO	EQUIPMENT DESCRIPTION	NO	EQUIPMENT DESCRIPTION
1	FAIRBANKS MORSE FIRE-PUMP	15	WAFER CHECK VALVE
2	COUPLING (GUARD NOT SHOWN)	16	BUTTERFLY VALVE (DISCHARGE SIDE)
3	DRIVER	17	OS & Y GATE VALVE (JOCKEY PUMP SUCTION)
4	CONTROL PANEL (FIRE PUMP)	18	RELIEF VALVE (JOCKEY PUMP LINE)
5	JOCKEY PUMP	19	CHECK VALVE (JOCKEY PUMP LINE)
6	CONTROL PANEL (JOCKEY PUMP)	20	OS & Y GATE VALVE (JOCKEY PUMP DISCHARGE)
8	OS & Y GATE VALVE	21	WASTE CONE (ENCLOSED)
9	ECCENTRIC REDUCER	22	BUTTERFLY VALVE (HOSE HEADER)
10	SUCTION PRESSURE GAUGE	23	HOSE HEADER
11	AIR RELEASE VALVE (PUMP CASING)	24	HOSE VALVE
12	DISCHARGE PRESSURE GAUGE	25	FUEL TANK
13	CONCENTRIC INCREASER	26	BATTERIES
14	MAIN RELIEF VALVE	27	BUTTERFLY VALVE (TEST LOOP)
		28	FLOWMETER



- NOTES:
1. NOT FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
 2. SUCTION & DISCHARGE FLANGES: ANSI STANDARD FLAT FACE.
 3. LOCATION OF COMPONENTS AS SHOWN WILL VARY FOR SPECIFIC CASES.
 4. EQUIPMENT PAD SHALL BE INSTALLED PER STRUCTURAL AND CIVIL DWGS.

DIESEL FIRE PUMP SYSTEM WITH TEST LINE
NTS

1
50-P-141

RECORD DRAWINGS

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DSGN	AG OLSON								
DR	JS WILLIAMSON								
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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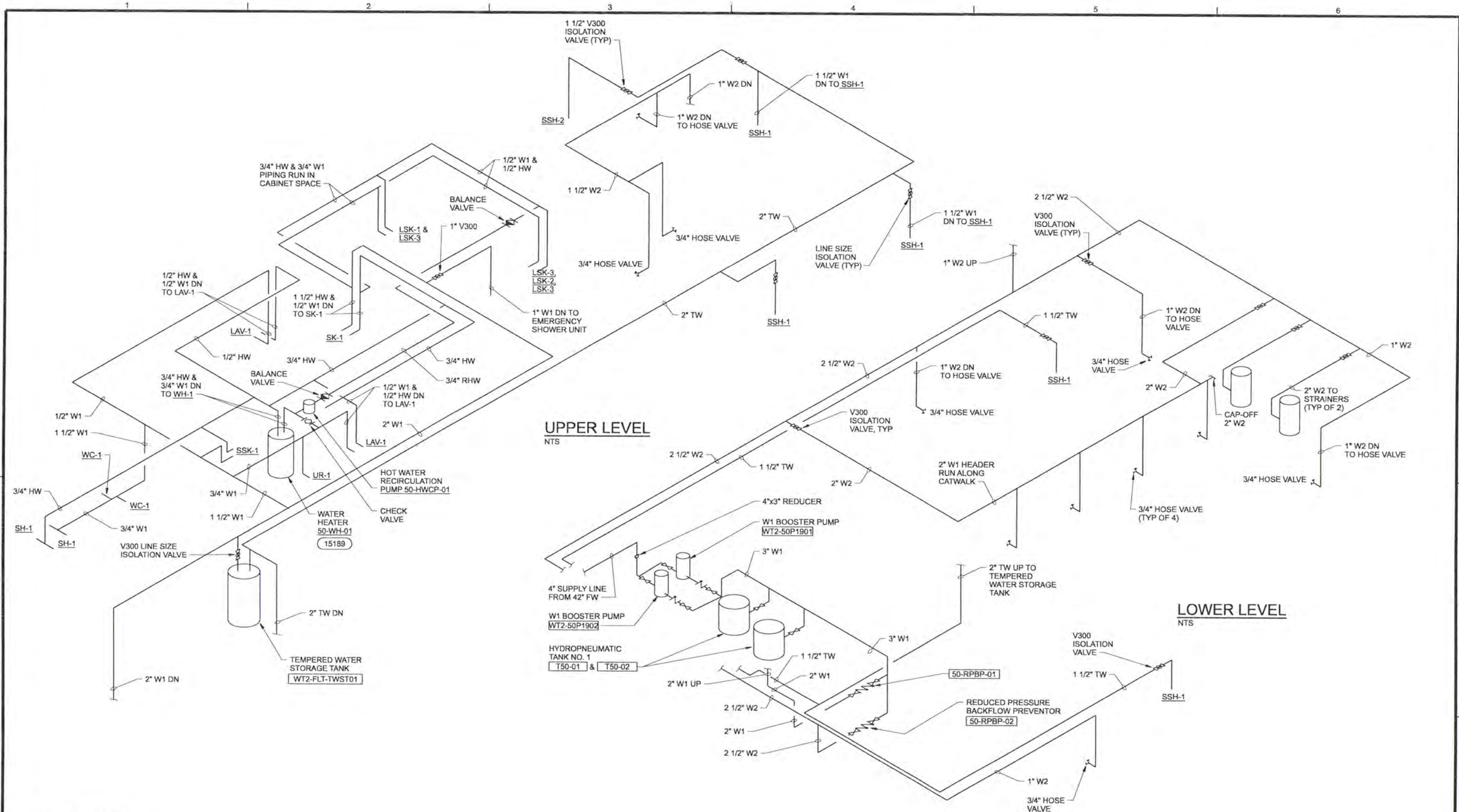


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
PLUMBING
DETAILS

SHEET	210
DWG	50-P-402
DATE	APRIL 2004
PROJ	170368

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DR	JS WILLIAMSON								
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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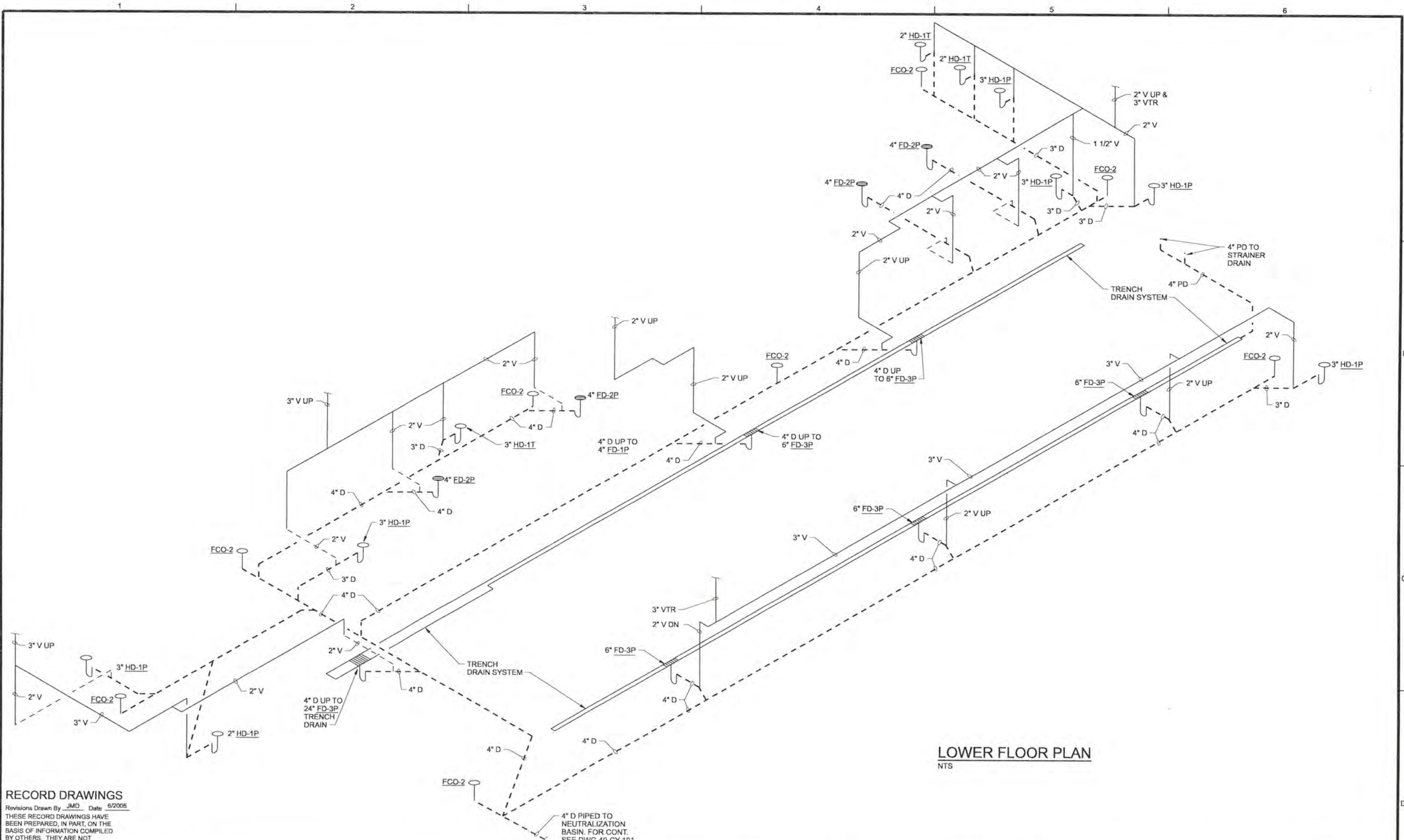


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 PLUMBING
 SERVICE PIPING ISOMETRICS

SHEET	211
DWG	50-P-501
DATE	APRIL 2004
PROJ	170368

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LOWER FLOOR PLAN
NTS

RECORD DRAWINGS

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DSGN	AG OLSON						
DR	JS WILLIAMSON						
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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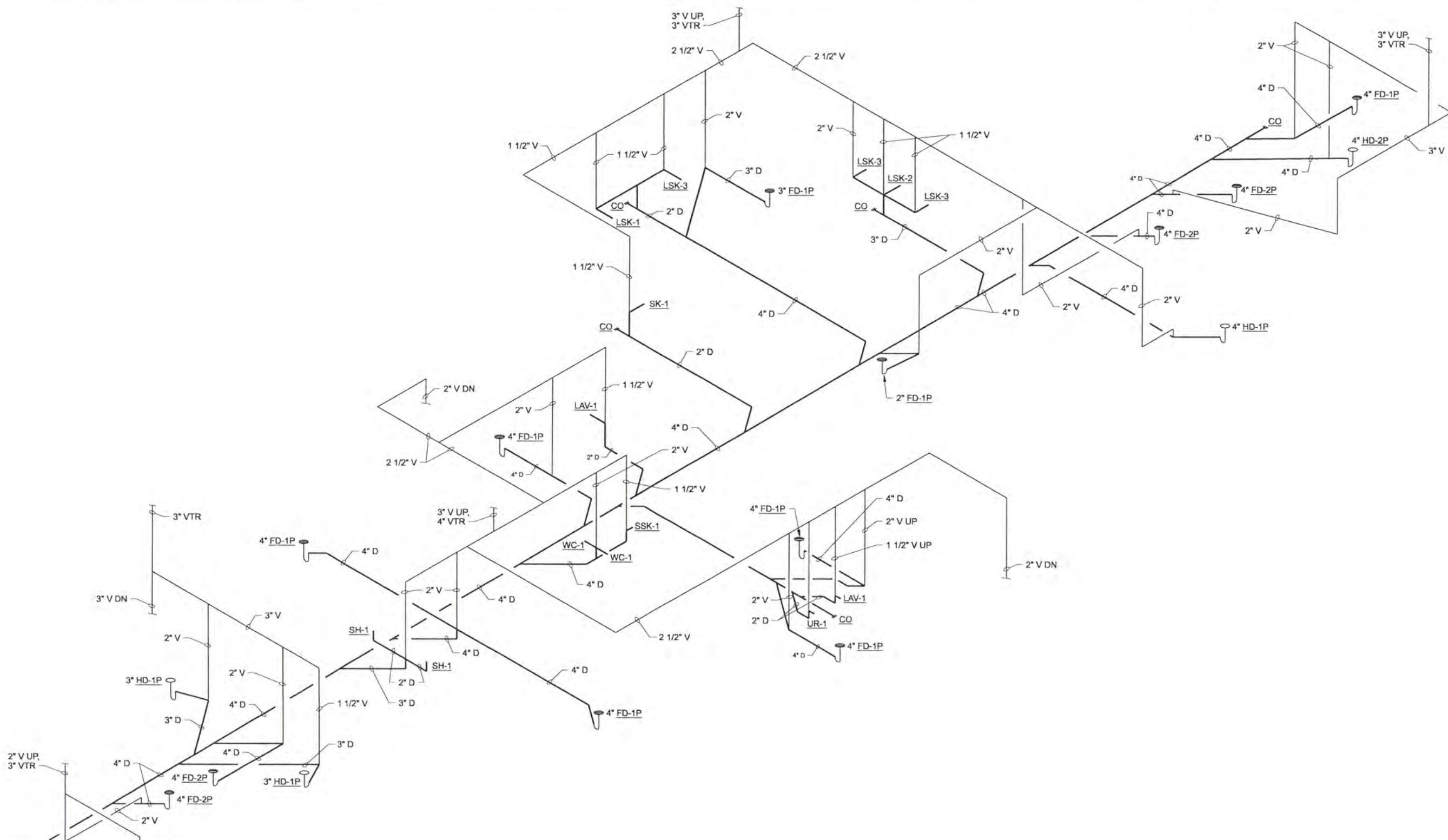


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 PLUMBING
 LOWER LEVEL WASTE & VENT ISOMETRICS

SHEET	212
DWG	50-P-502
DATE	APRIL 2004
PROJ	170368

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UPPER FLOOR PLAN
NTS

RECORD DRAWINGS

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DSGN	AG OLSON				
DR	JS WILLIAMSON				
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

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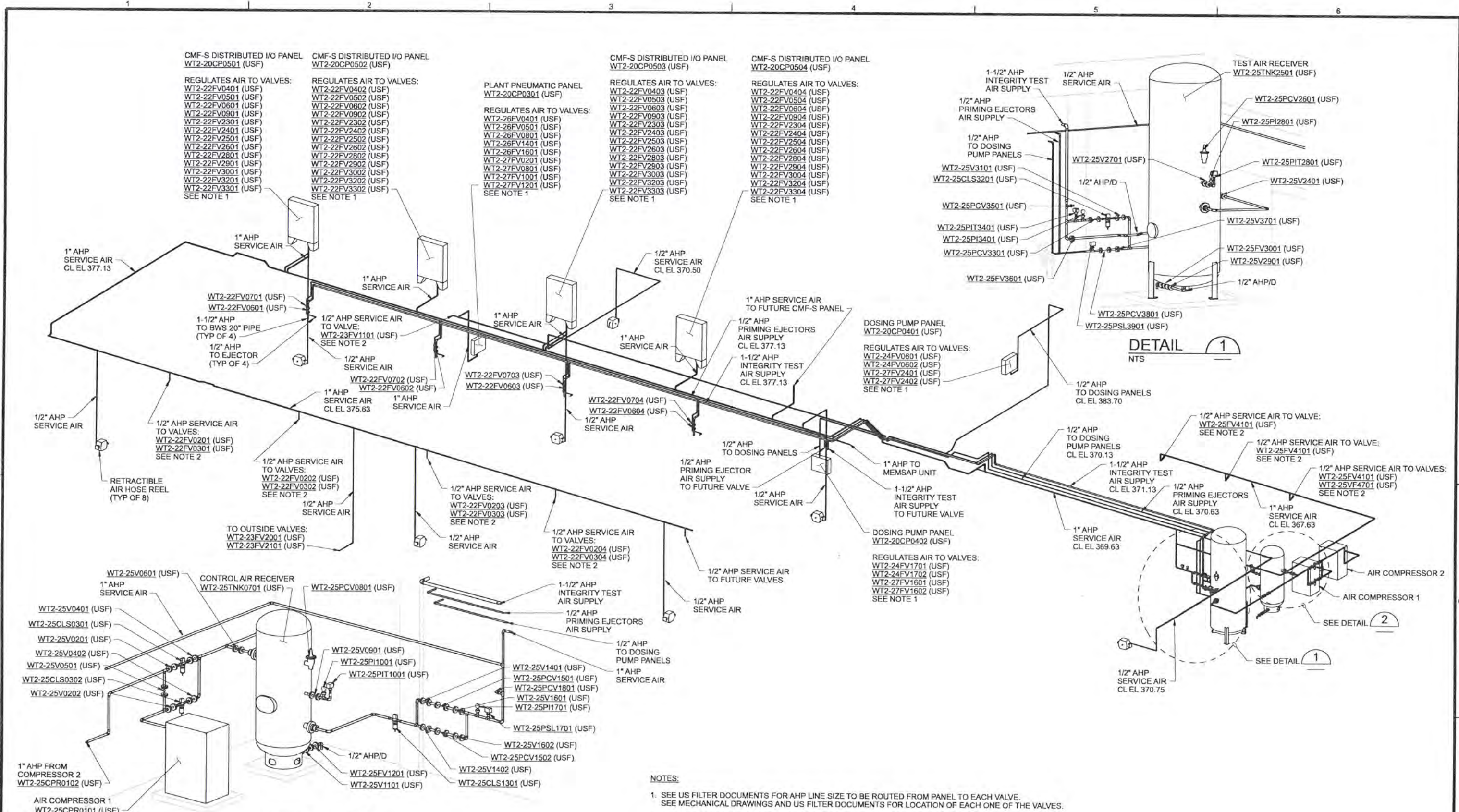


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 PLUMBING
 UPPER FLOOR WASTE & VENT ISOMETRICS

SHEET	213
DWG	50-P-503
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

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DSGN	EN LOUIE/AG OLSON								
DR	AG OLSON								
CHK	TJ REJFIR	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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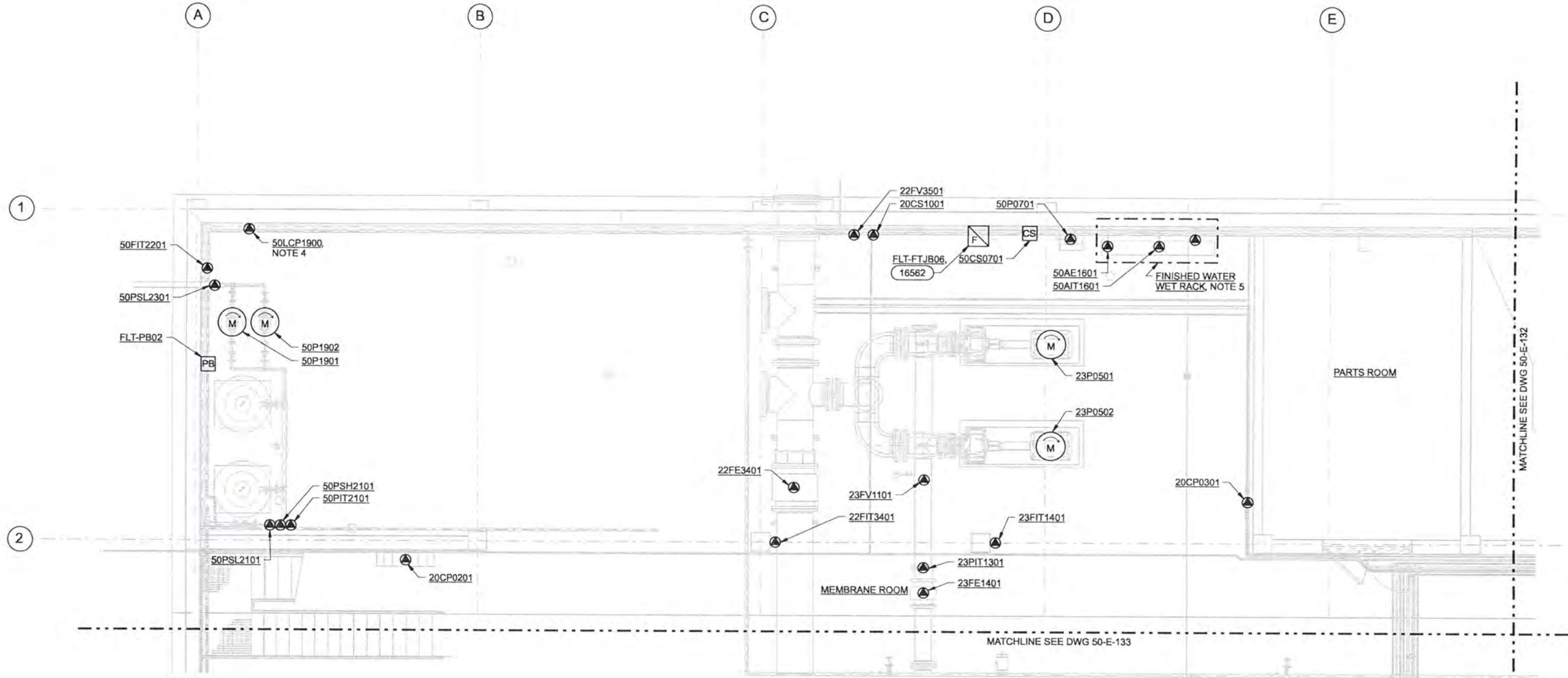
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 PLUMBING
 AIR PIPING SYSTEM ISOMETRIC DIAGRAM

SHEET	214
DWG	50-P-504
DATE	APRIL 2004
PROJ	170368

- NOTES:**
- SEE US FILTER DOCUMENTS FOR AHP LINE SIZE TO BE ROUTED FROM PANEL TO EACH VALVE. SEE MECHANICAL DRAWINGS AND US FILTER DOCUMENTS FOR LOCATION OF EACH ONE OF THE VALVES.
 - SEE US FILTER DOCUMENTS FOR AHP LINE SIZE TO BE ROUTED TO EACH VALVE. SEE MECHANICAL DRAWINGS AND US FILTER DOCUMENTS FOR LOCATION OF EACH ONE OF THE VALVES.

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NOTES:

1. GENERAL LOCATION OF EQUIPMENT AND DEVICES SHOWN. ELECTRICAL CONTRACTOR RESPONSIBLE TO VERIFY LOCATION OF DEVICES WITH THE MECHANICAL DRAWINGS AND THE MECHANICAL CONTRACTOR.
2. FOR PROCESS EQUIPMENT CIRCUIT AND RACEWAY REQUIREMENTS, SEE RISER DIAGRAMS AND ONE LINE DIAGRAMS.
3. FOR CIRCUIT ASSIGNMENTS REFER TO PANEL SCHEDULES, DWG 50-E-507.
4. W1 BOOSTER PANEL FED FROM PANEL FLT-DP01. ROUTE A 1 1/2" CONDUIT FROM PANEL FLT-DP01 TO 50 LCP1900 WITH 3#3 CONDUCTORS AND 1#8 GROUND CONDUCTOR. FROM 50LCP1900 TO 50P1901 AND FROM 50LCP1900 TO 50P1902 ROUTE A 3/4" CONDUIT WITH 3#10 CONDUCTORS AND 1#10 GROUND CONDUCTOR, SEE RISER DIAGRAM ON DWG 50-E-505.
5. WET RACK SUPPLIED BY US FILTER, PROVIDES SPACE FOR MOUNTING OF 50AE1601 AND 50AIT1601.

PROCESS PLAN-AREA A
1/4"=1'-0"

A	B
C	D

KEY PLAN

RECORD DRAWINGS

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DSGN	RG COLLETTE						
DR	MS MCNEELY						
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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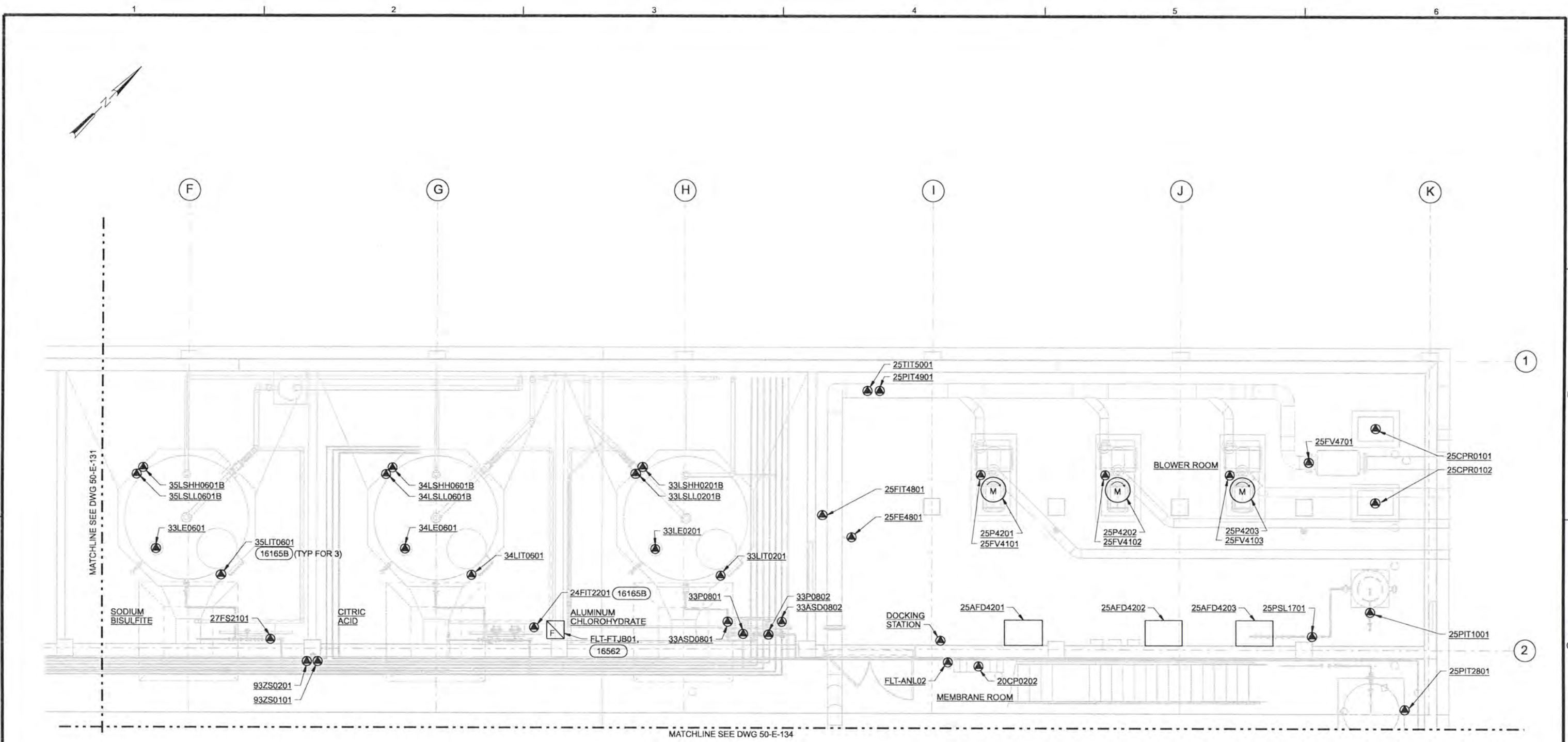


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 LOWER PROCESS PLAN
 AREA A

SHEET	215
DWG	50-E-131
DATE	APRIL 2004
PROJ	170368

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NOTES:

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2. FOR PROCESS EQUIPMENT CIRCUIT AND RACEWAY REQUIREMENTS SEE RISER DIAGRAM DWG'S 50-E-503, 50-E-504 AND ONE LINE DIAGRAMS ON DWG 50-E-502.
3. FOR CIRCUIT ASSIGNMENTS REFER TO PANEL SCHEDULES, DWG 50-E-507.

PROCESS PLAN-AREA B
1/4"=1'-0"

RECORD DRAWINGS

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DSGN	RG COLLETTE						
DR	MS MCNEELY						
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 LOWER PROCESS PLAN
 AREA B

SHEET	216
DWG	50-E-132
DATE	APRIL 2004
PROJ	170368

A	B
C	D

KEY PLAN

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- FOR CIRCUIT ASSIGNMENTS REFER TO PANEL SCHEDULES, DWG 50-E-507.
- MOUNT FTJB FOR FILTER CELLS TO HANDRAIL ADJACENT TO THE CELL CONTROL PANELS. INSTALL PER DETAILS 16562 AND 16160.
- FILTER CONTROL PANELS MOUNTED ON CATWALK.
- POWERTRAK ASSEMBLY FOR MEMSAP UNIT. CONTRACTOR SHALL FURNISH AND INSTALL STAINLESS STEEL TRAK GUIDE TRAYS, MOUNTING BRACKETS, AND GLEASON POWERTRAK MODEL PT35G-BC-7 21-6, OR APPROVED EQUAL, TO CONNECT AIR HOSE, 4#12 TYPE 2 CABLE AND 3#12 TYPE 2 CABLE FROM TERMINAL JUNCTION BOX TO MEMSAP UNIT. ALLOW FOR MEMSAP TRAVEL LENGTH OF APPROXIMATE 115 FT. CONTRACTOR RESPONSIBLE TO COORDINATE WITH VENDOR TO ENSURE PROPER TRAVEL LENGTH REQUIRED TO INCLUDE FUTURE FILTER CELL ASSEMBLY. COORDINATE TERMINATION LOCATIONS WITH MEMSAP MANUFACTURER.
- FLT-PB04 APPROXIMATELY 24"Wx24"Hx6"D.
- DUE TO THE CONGESTION OF PIPING AND CONTROL DEVICES AT EACH FILTER CELL IT IS IMPERATIVE THAT THE ELECTRICAL CONTRACTOR COORDINATES ROUTING WITH THE PROCESS MECHANICAL CONTRACTORS TO PREVENT BLOCKING OPERATOR OR MAINTENANCE ACCESS TO THE EQUIPMENT. CONDUIT IMPROPERLY ROUTED, BLOCKING ACCESS, WILL BE RELOACTED BY THE ELECTRICAL CONTRACTOR WITH NO COST TO THE CUSTOMER. ROUTE CONDUITS, TO AND FROM EACH FILTER CONTROL PANEL, ALONG BOTTOM OF CATWALKS.



MATCHLINE SEE DWG 50-E-131

NOTE 8

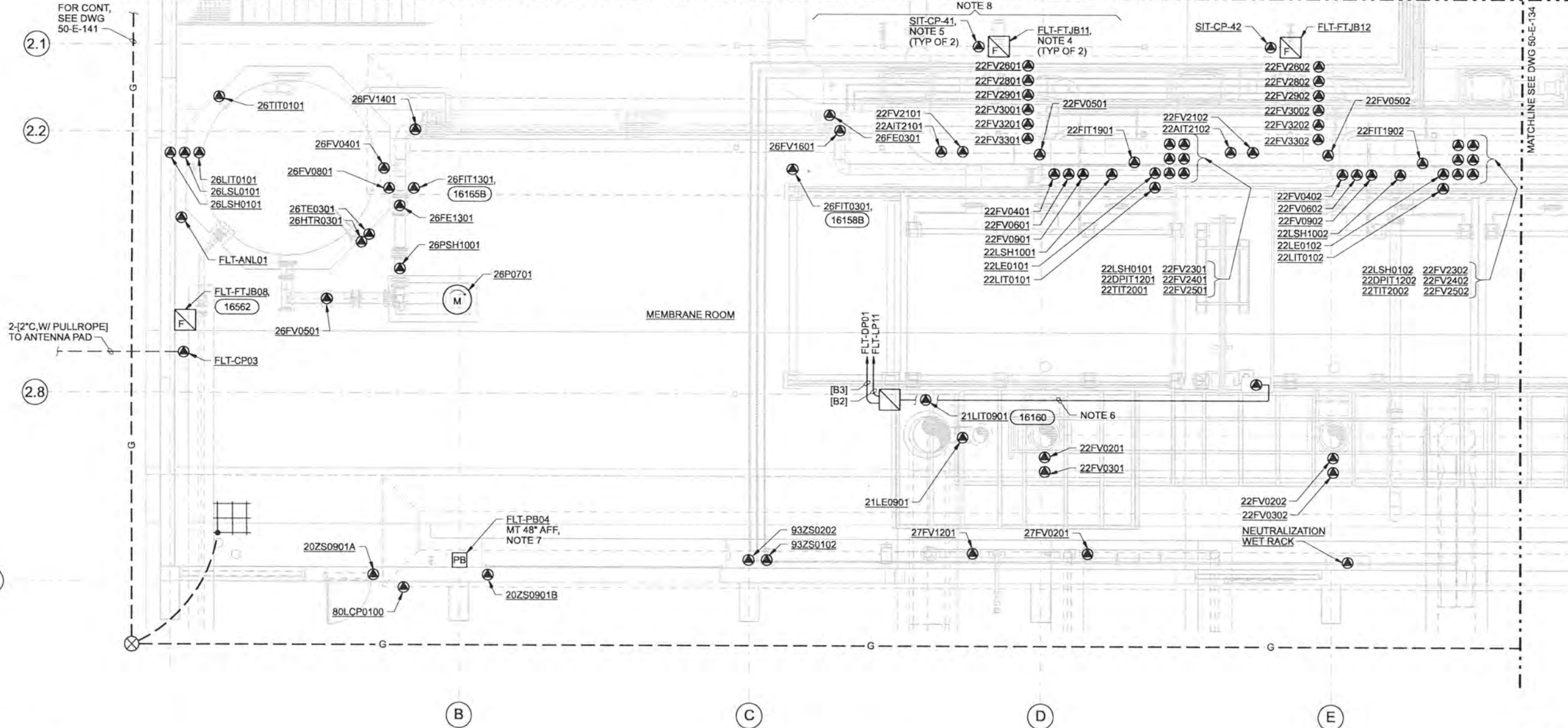
SIT-CP-41
NOTE 5
(TYP OF 2)

FLT-FTJB11
NOTE 4
(TYP OF 2)

SIT-CP-42

FLT-FTJB12

MATCHLINE SEE DWG 50-E-134



MEMBRANE ROOM

NEUTRALIZATION
WET RACK

RECORD DRAWINGS

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DSGN	RG COLLETTE						
DR	MS MCNEELY						
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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PROCESS PLAN-AREA C
1/4"=1'-0"



ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
ELECTRICAL
LOWER PROCESS PLAN
AREA C

A	B
C	D

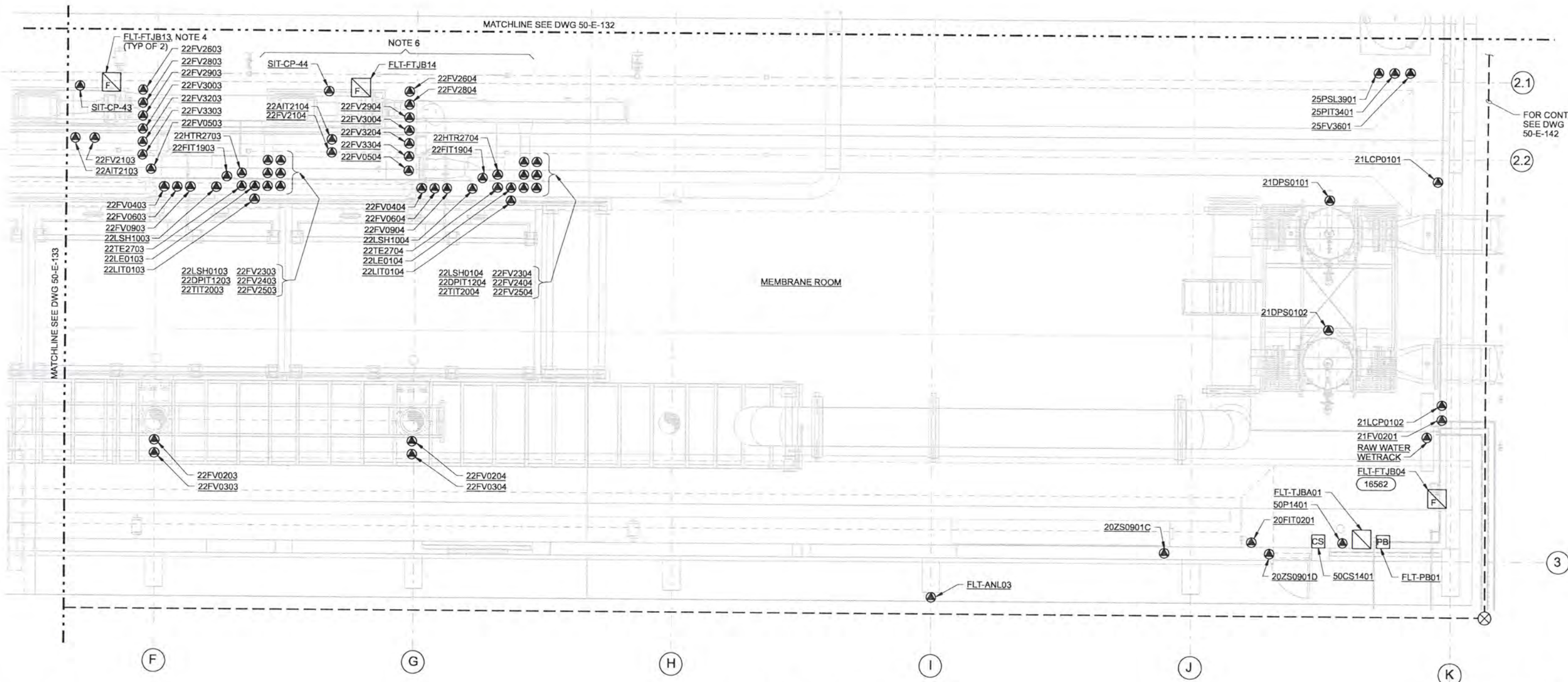
KEY PLAN

SHEET	217
DWG	50-E-133
DATE	APRIL 2004
PROJ	170368

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3. FOR CIRCUIT ASSIGNMENTS REFER TO PANEL SCHEDULES, DWG 50-E-507.
4. MOUNT FTJB FOR FILTER CELLS TO HANDRAIL ADJACENT TO THE CELL CONTROL PANELS ON THE RAISED CATWALK. INSTALL PER DETAILS (16562) AND (16160).
5. FILTER CONTROL PANELS MOUNTED ON CATWALK.
6. DUE TO THE CONGESTION OF PIPING AND CONTROL DEVICES AT EACH FILTER CELL IT IS IMPERATIVE THAT THE ELECTRICAL CONTRACTOR COORDINATES ROUTING WITH THE PROCESS MECHANICAL CONTRACTORS TO PREVENT BLOCKING OPERATOR OR MAINTENANCE ACCESS TO THE EQUIPMENT. CONDUIT IMPROPERLY ROUTED, BLOCKING ACCESS, WILL BE RELOACTED BY THE ELECTRICAL CONTRACTOR WITH NO COST TO THE CUSTOMER. ROUTE CONDUITS, TO AND FROM EACH FILTER CONTROL PANEL, ALONG BOTTOM OF CATWALKS.



RECORD DRAWINGS

Revisions Drawn By: JMD Date: 6/2006
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DSGN	RG COLLETTE						
DR	MS MCNEELY						
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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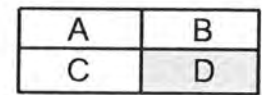


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 LOWER PROCESS PLAN
 AREA D

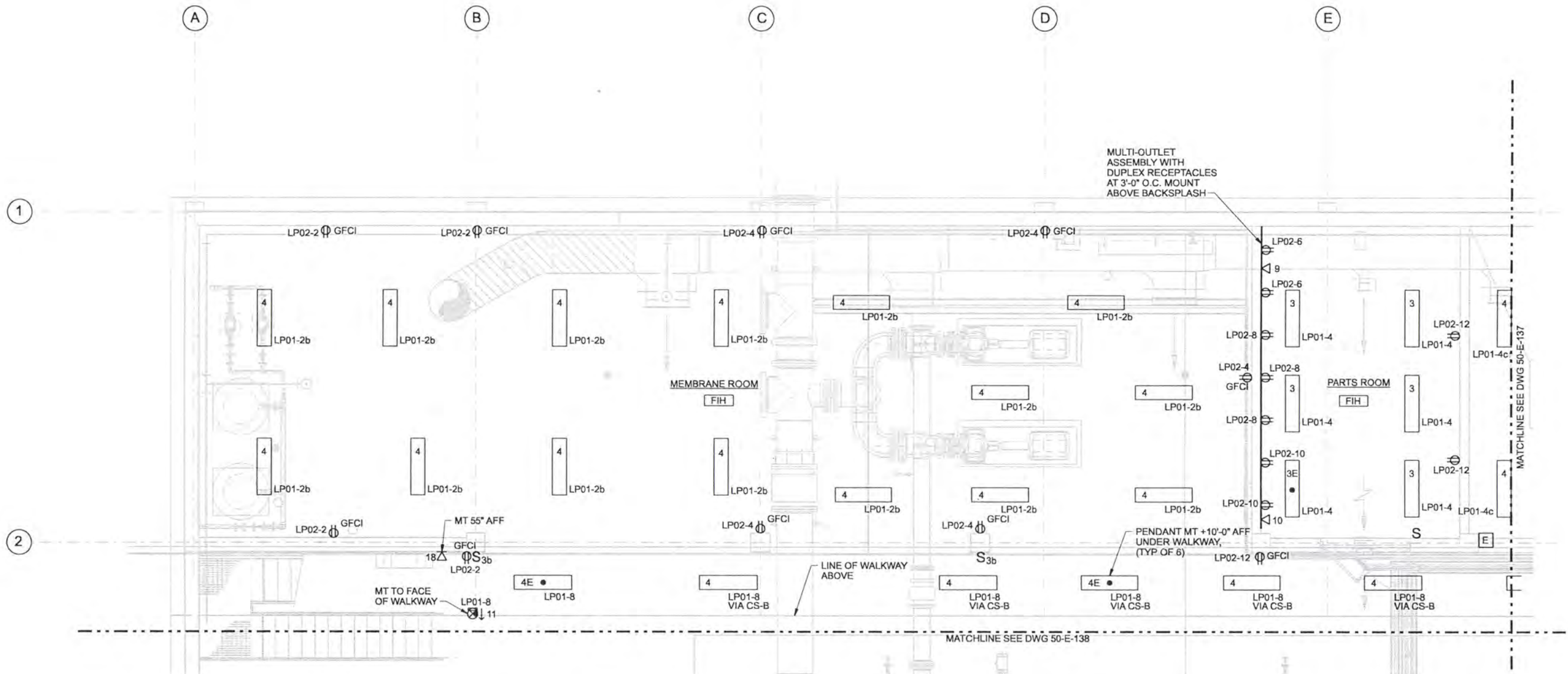
SHEET	218
DWG	50-E-134
DATE	APRIL 2004
PROJ	170368

PROCESS PLAN-AREA D
 1/4"=1'-0"



KEY PLAN

REUSE OF DOCUMENTS: CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.



NOTES

1. GENERAL LOCATION OF FIRE ALARM SYSTEM COMPONENTS SHOWN. CONTRACTOR RESPONSIBLE TO DETERMINE ACTUAL QUANTITIES, SPACING AND LOCATIONS PER THE REQUIREMENTS OF NFPA 72 AND THE LOCAL AUTHORITY HAVING JURISDICTION. FOR ADDITIONAL REQUIREMENTS, SEE RISER DIAGRAM AND SPECIFICATION 13850.
2. THE EMERGENCY ALARM SYSTEM AND THE FIRE ALARM SYSTEM SHARE A COMMON CONTROL PANEL. SEE RISER DIAGRAM. INSTALL EMERGENCY ALARM SYSTEM IN BLOWER BUILDING PER THE REQUIREMENTS OF SPECIFICATION 13850. EXITS FROM EACH CHEMICAL AREA SHALL BE EQUIPPED WITH A MANUAL STATION. INSTALL FLOAT SWITCHES IN CONTAINMENT AREAS AND CONNECT TO THE EMERGENCY ALARM PANEL. FLOAT SWITCH TO BE GEMS LS-270 SERIES, P/N 43765 OR EQUAL.
3. SEE GENERAL ELECTRICAL CONSTRUCTION NOTES ON 01-G-15.

FACILITY PLAN-AREA A
1/4"=1'-0"

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	RW MARTINI						
DR	MS MCNEELY						
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD		

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

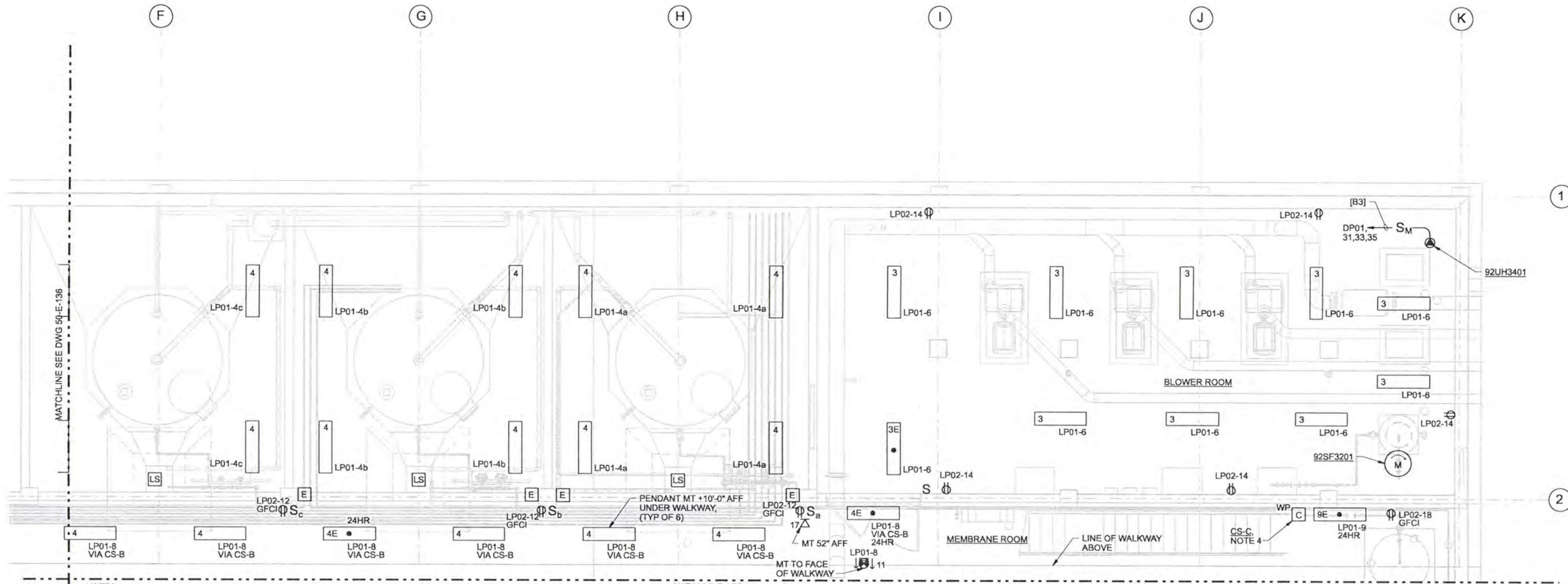
FILTRATION BUILDING
 ELECTRICAL
 LOWER FACILITY PLAN
 AREA A

SHEET	219
DWG	50-E-136
DATE	APRIL 2004
PROJ	170368

A	B
C	D

KEY PLAN

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NOTES:

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3. SEE GENERAL ELECTRICAL CONSTRUCTION NOTES ON DWG 01-G-15.

FACILITY PLAN-AREA B

1/4"=1'-0"

RECORD DRAWINGS

FOR LIGHTING CONTROL STATION DESCRIPTIONS AND CONTACTOR CONTROL, SEE WIRING DIAGRAM ON DWG 50-E-507.

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DSGN	RW MARTINI						
DR	MS MCNEELY						
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 LOWER FACILITY PLAN
 AREA B

SHEET	220
DWG	50-E-137
DATE	APRIL 2004
PROJ	170368

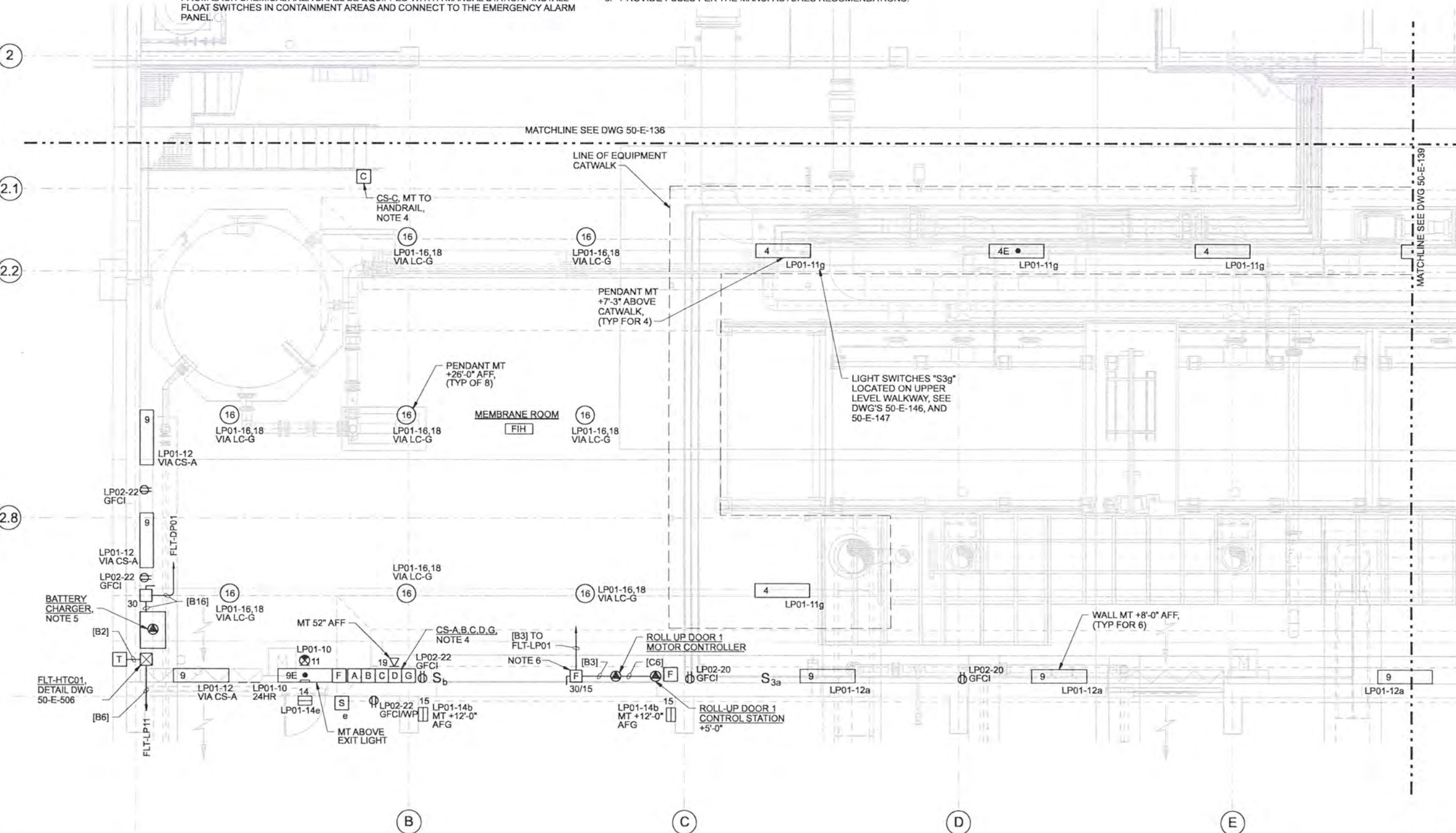
A	B
C	D

KEY PLAN

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NOTES:

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3. SEE GENERAL ELECTRICAL CONSTRUCTION NOTES ON DWG 01-G-15.
4. FOR LIGHTING CONTROL STATION DESCRIPTIONS AND CONTACTOR CONTROL, SEE WIRING DIAGRAM ON DWG 50-E-507.
5. FORK TRUCK BATTERY CHARGER, FLOOR MOUNTED ON HOUSEKEEPING PAD.
6. PROVIDE FUSES PER THE MANUFACTURES RECOMENDATIONS.



RECORD DRAWINGS

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DSGN	RW MARTINI				
DR	MS MCNEELY				
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	REVISION	BY

FACILITY PLAN - AREA C
 1/4"=1'-0"

A	B
C	D

KEY PLAN



ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

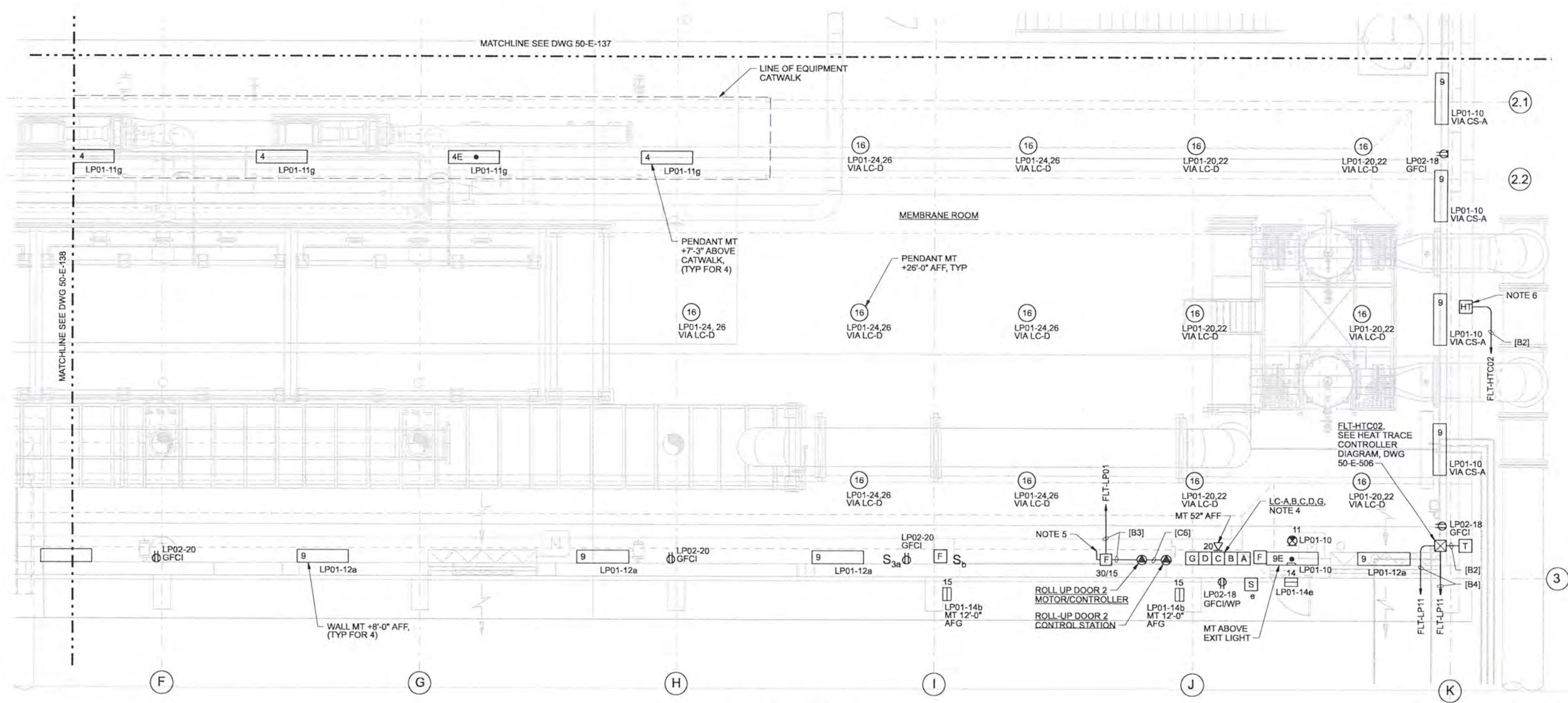
FILTRATION BUILDING
 LOWER FACILITY PLAN
 AREA C

SHEET	221
DWG	50-E-138
DATE	APRIL 2004
PROJ	170368

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3. SEE GENERAL ELECTRICAL CONSTRUCTION NOTES ON DWG 01-G-15.
4. FOR LIGHTING CONTROL STATION DESCRIPTIONS AND CONTACTOR CONTROL, SEE WIRING DIAGRAM DWG 50-E-507.
5. PROVIDE FUSES PER THE MANUFACTURES RECOMMENDATION.
6. FOR EXPOSED PIPING REQUIRING HEAT TRACE REFER TO MECHANICAL DWG.



RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	RW MARTINI						
DR	MS MCNEELY						
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD		

VERIFY SCALE
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CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 LOWER FACILITY PLAN
 AREA D

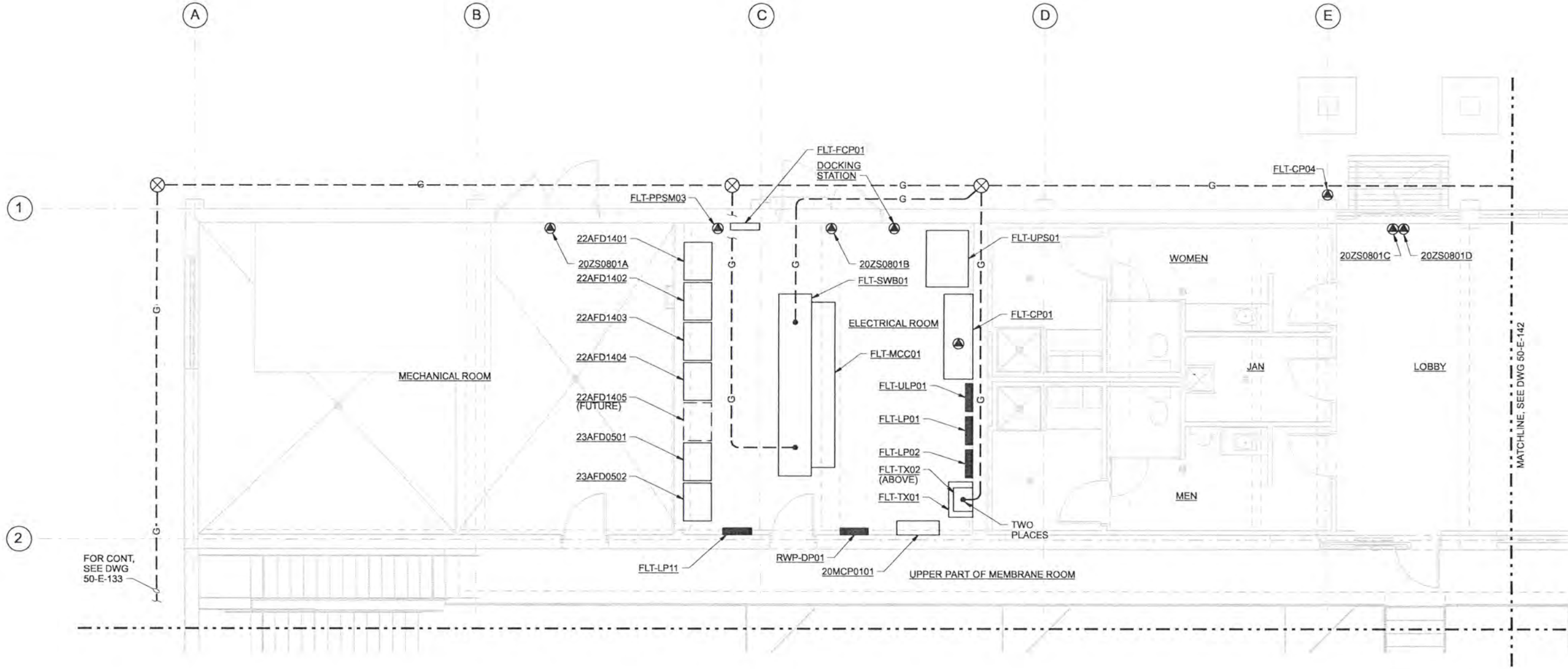
SHEET	222
DWG	50-E-139
DATE	APRIL 2004
PROJ	170368

FACILITY PLAN-AREA D
 1/4"=1'-0"

A	B
C	D

KEY PLAN

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- NOTES:**
1. GENERAL LOCATION OF EQUIPMENT AND DEVICES SHOWN. ELECTRICAL CONTRACTOR RESPONSIBLE TO VERIFY LOCATION OF DEVICES WITH THE MECHANICAL DRAWINGS AND THE MECHANICAL CONTRACTOR.
 2. FOR CIRCUIT AND RACEWAY REQUIREMENTS, SEE RISER DIAGRAMS ON DWGS 50-E-503, 50-E-504, 50-E-505 AND ONE-LINE DIAGRAMS ON DWGS 50-E-501 AND 50-E-502.
 3. FOR CIRCUIT ASSIGNMENTS REFER TO PANEL SCHEDULES, SEE DWG 50-E-507.

PROCESS PLAN-AREA A
1/4"=1'-0"

A	B
C	D

KEY PLAN

RECORD DRAWINGS

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DSGN	RG COLLETTE				
DR	MS MCNEELY				
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

VERIFY SCALE
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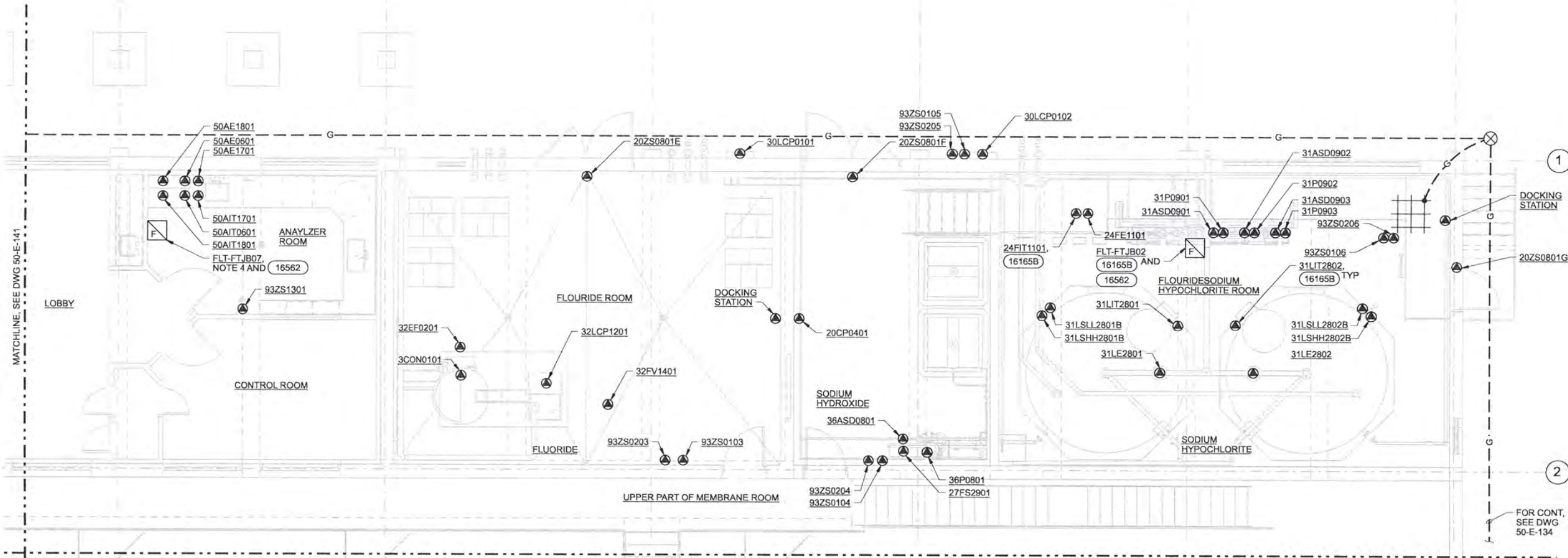


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 UPPER PROCESS PLAN
 AREA A

SHEET	223
DWG	50-E-141
DATE	APRIL 2004
PROJ	170368

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- NOTES:
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 2. FOR CIRCUIT AND RACEWAY REQUIREMENTS, SEE RISER DIAGRAM AND ONE-LINE DIAGRAMS.
 3. FOR CIRCUIT ASSIGNMENTS REFER TO PANEL SCHEDULES, SEE DWG 50-E-507.
 4. FLUSH MOUNT FTJB IN ANALYZER ROOM.

PROCESS PLAN-AREA B
1/4"=1'-0"

A	B
C	D

KEY PLAN

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	RG COLLETTE								
DR	MS MCNEELY								
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

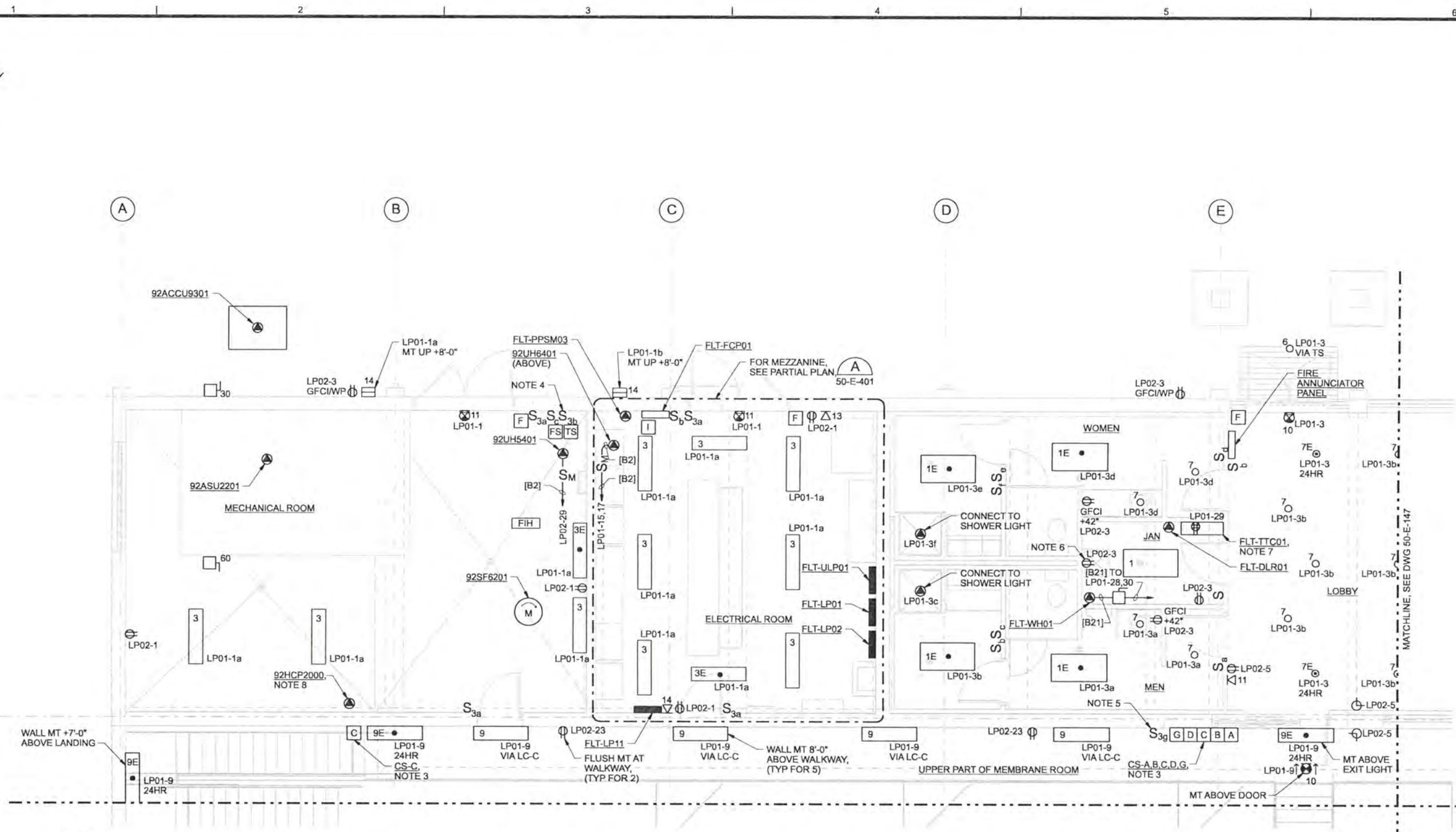


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
ELECTRICAL
UPPER PROCESS PLAN
AREA B

SHEET	224
DWG	50-E-142
DATE	APRIL 2004
PROJ	170368

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NOTES:

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2. SEE GENERAL ELECTRICAL CONSTRUCTION NOTES ON DWG 01-G-15.
3. FOR LIGHTING CONTROL STATION DESCRIPTIONS AND CONTACTOR CONTROL, SEE WIRING DIAGRAM DWG 50-E-507.
4. ENGRAVE SWITCHPLATE "S3b" TO READ: "MEZZANINE LIGHTS".
5. ENGRAVE SWITCHPLATE "S3g" TO READ: "EQUIPMENT CATWALK LIGHTS".
6. COORDINATE EXACT LOCATION OF RECEPTACLE WITH MECHANICAL CONTRACTOR. THIS RECEPTACLE IS INTENDED FOR USE OF THE HOT WATER CIRCULATION PUMP.
7. FURNISH AND INSTALL FLT-TTC01 IN JANITORS CLOSET AT APPROXIMATE LOCATION SHOWN. SIZE CABINET TO FIT 4'-0"x4'-0" PLYWOOD PER QWEST REQUIREMENTS. INSTALL RECEPTACLE INSIDE TTC AND ROUTE A #6 BARE COPPER CONDUCTOR FROM BUILDING GROUND SYSTEM, LEAVE COILED UP IN TTC. INSTALLATION SHALL COMPLY WITH QWEST REQUIREMENTS.
8. FOR ADDITIONAL CONDUIT AND CONDUCTOR REQUIREMENTS, SEE DWG 50-E-505.

FACILITY PLAN-AREA A
1/4"=1'-0"

A	B
C	D

KEY PLAN

RECORD DRAWINGS

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DSGN	RW MARTINI								
DR	MS MCNEELY								
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

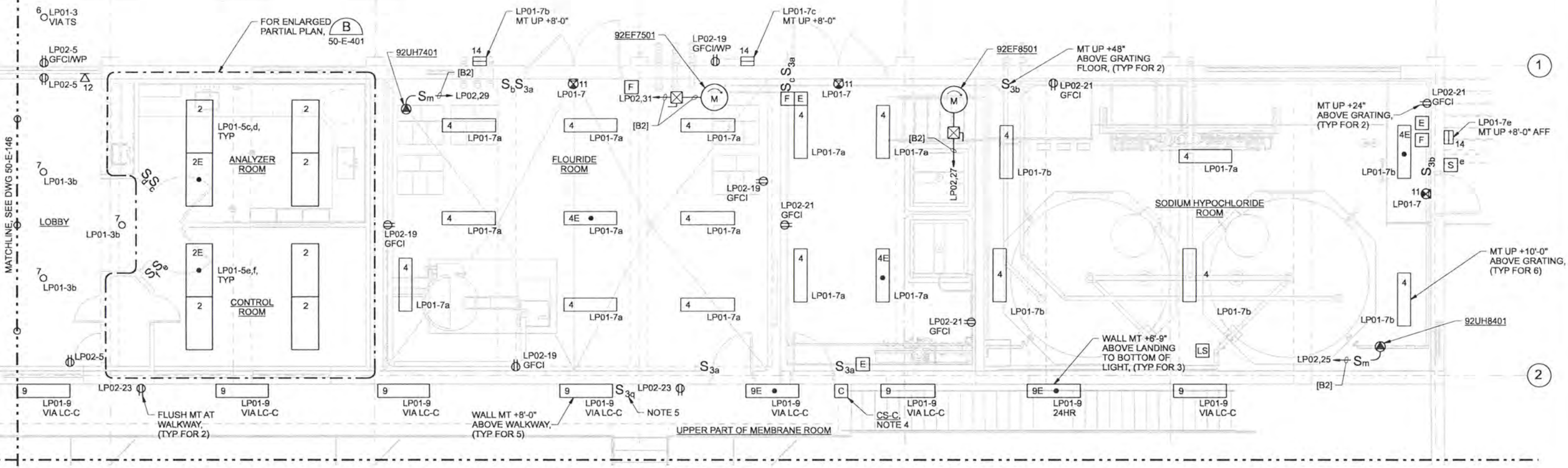
CH2MHILL

ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
ELECTRICAL
UPPER FACILITY PLAN
AREA A

SHEET	225
DWG	50-E-146
DATE	APRIL 2004
PROJ	170368

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FACILITY PLAN-AREA B

1/4"=1'-0"

A	B
C	D

KEY PLAN

RECORD DRAWINGS SEE GENERAL ELECTRICAL CONSTRUCTION NOTES ON DWG 01-G-15.

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DRG	RW MARTINI	6/2006	RECORD DRAWING	JMD	RCF
DR	MS MCNEELY				
CHK	JF TURNER				
APVD	CW MASSIE				
NO.	DATE	REVISION	BY	APVD	VERIFICATION

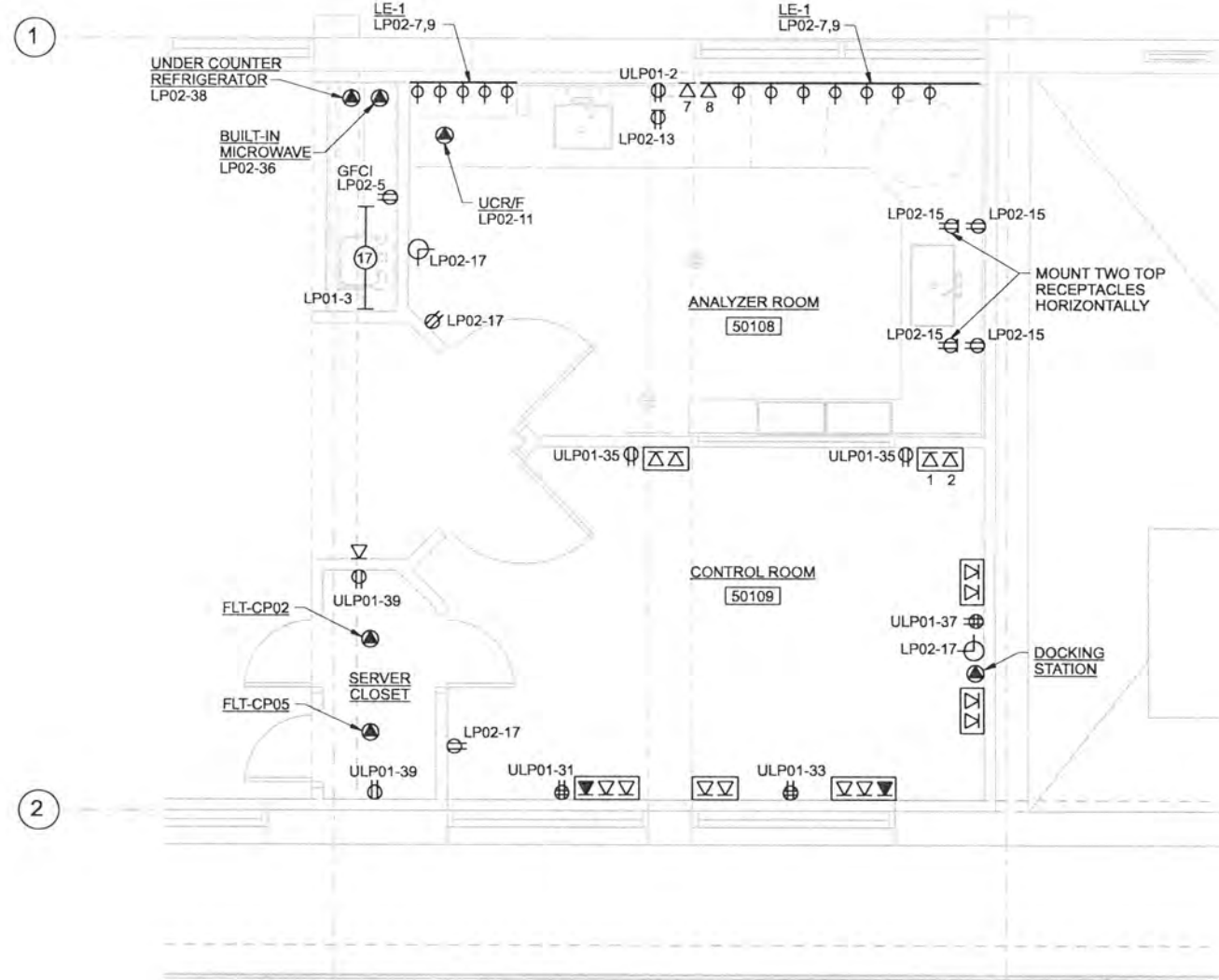
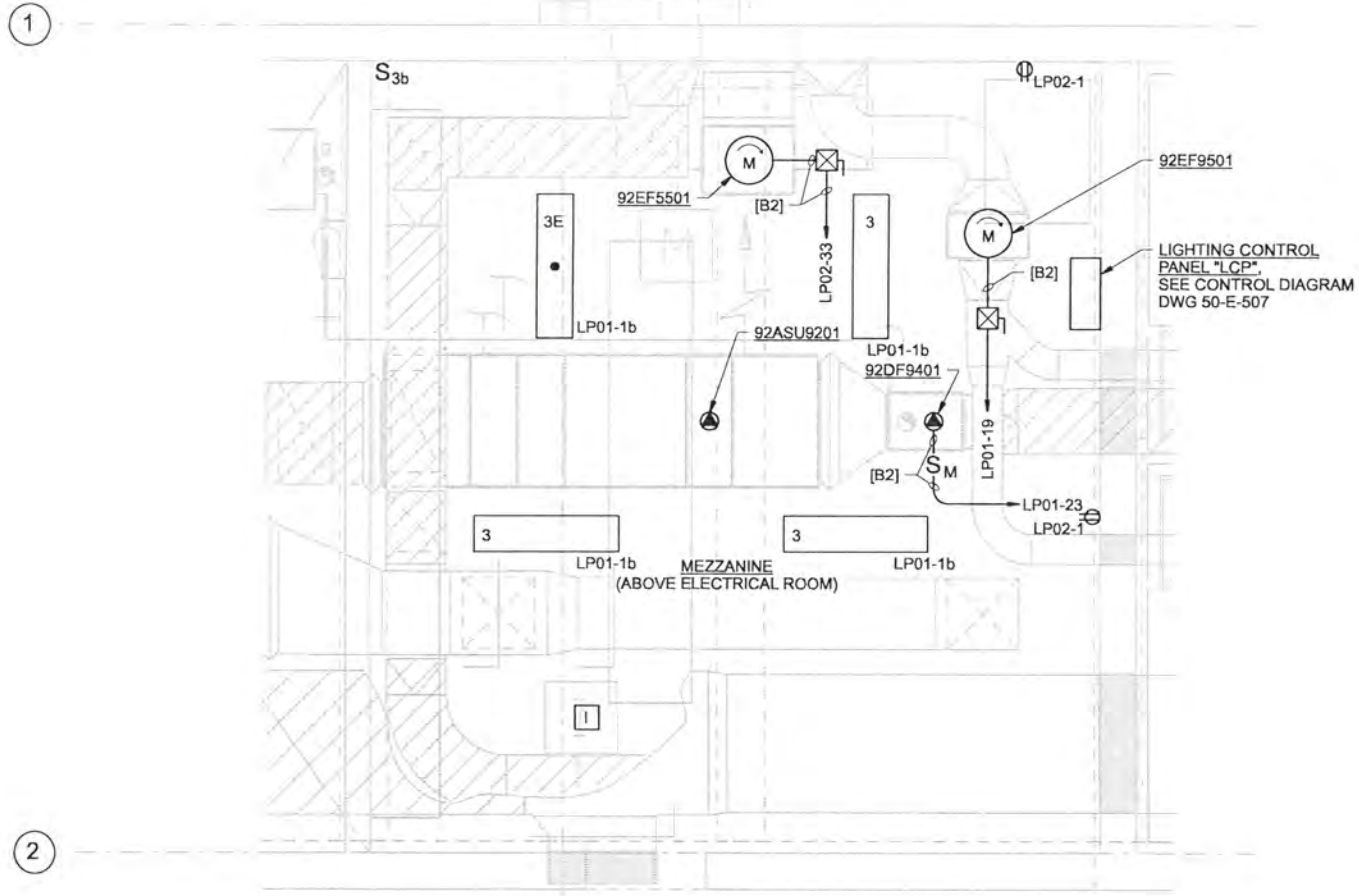


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
ELECTRICAL
UPPER FACILITY PLAN
AREA B

SHEET	226
DWG	50-E-147
DATE	APRIL 2004
PROJ	170368

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PARTIAL PLAN A
3/8"=1'-0" 50-E-146

PARTIAL PLAN B
3/8"=1'-0" 50-E-147

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	RW MARTINI						
DR	MS MCNEELY						
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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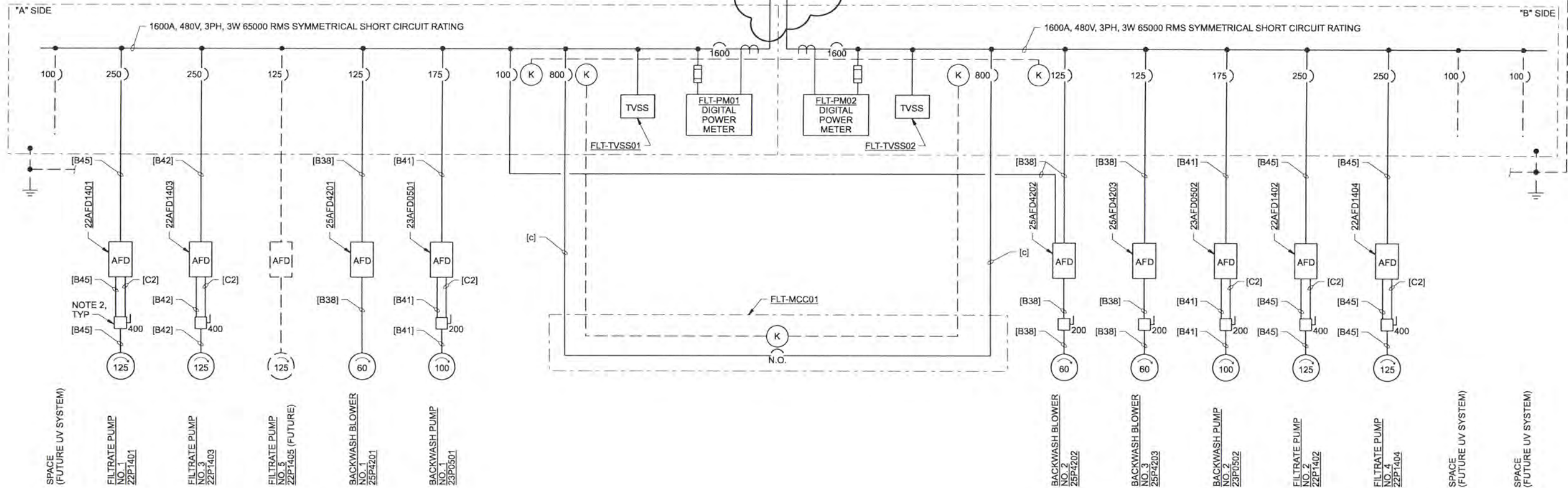
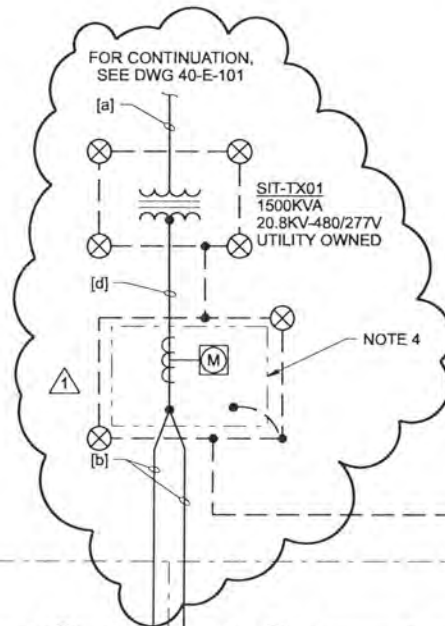
CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 PARTIAL FLOOR PLANS

SHEET	227
DWG	50-E-401
DATE	APRIL 2004
PROJ	170368

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FLT-SWB01 ONE-LINE DIAGRAM
NTS

NOTES:

- DRIVES FURNISHED AS PART OF THE FILTER SYSTEM PACKAGE. ELECTRICAL CONTRACTOR SHALL INSTALL, SET UP AND TEST THE DRIVES UNDER THE SCOPE OF THIS CONTRACT.
- FURNISH AND INSTALL DISCONNECT SWITCH WITH INTEGRAL INTERLOCK TO SHUT OFF AFD PRIOR TO BREAKING THE CIRCUIT TO THE MOTOR. ENCLOSURE SHALL BE RATED FOR THE ENVIRONMENT.
- ALL EQUIPMENT TAGS ARE SHOWN WITHOUT THE WT2 PREFIX FOR CLARITY.
- UTILITY METERING, INSTALL METERING FOR THE ELECTRICAL SERVICE TO THE FILTRATION FACILITY PER THE REQUIREMENTS OF PACIFIC POWER.

CIRCUIT AND CONDUCTOR CALLOUTS (THIS DWG ONLY)

- [a] = 1-1/2" C, WITH 1/4" PULLROPE]
 [b] = 4-1/4" C, 3-600KCMIL, 1#2/0 GCC
 1-1/4" C, WITH PULLSTRING]
 [c] = 2-3/4" C, 3-500KCMIL, 1#1/0G]
 [d] = 5-1/4" C, 3-600KCMIL, 1#2/0 GCC
 1-1/4" C, WITH PULLSTRING]

RECORD DRAWINGS

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NO.	DATE	REVISION	BY	APVD
1	6/2006	RECORD DRAWING	VJM	RGE

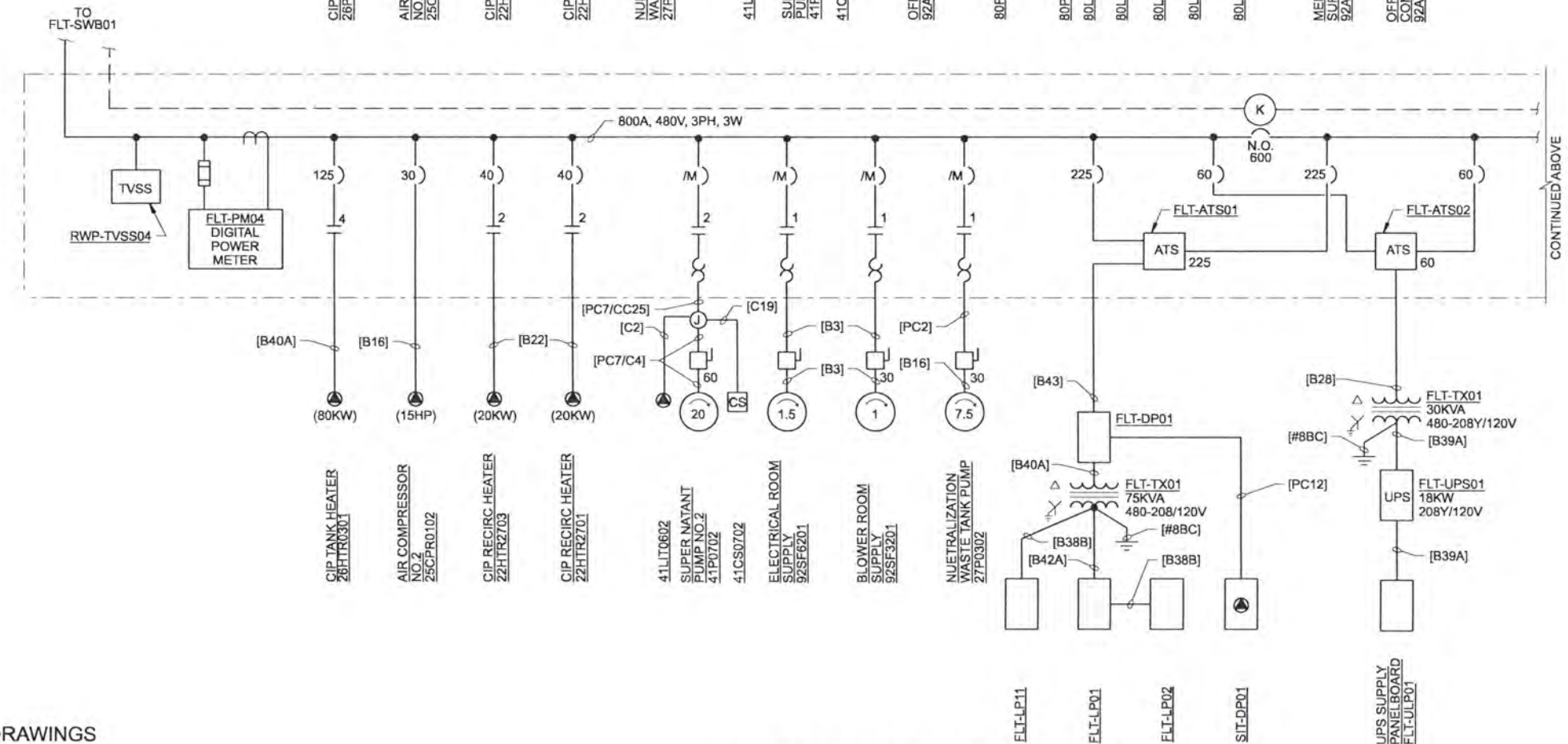
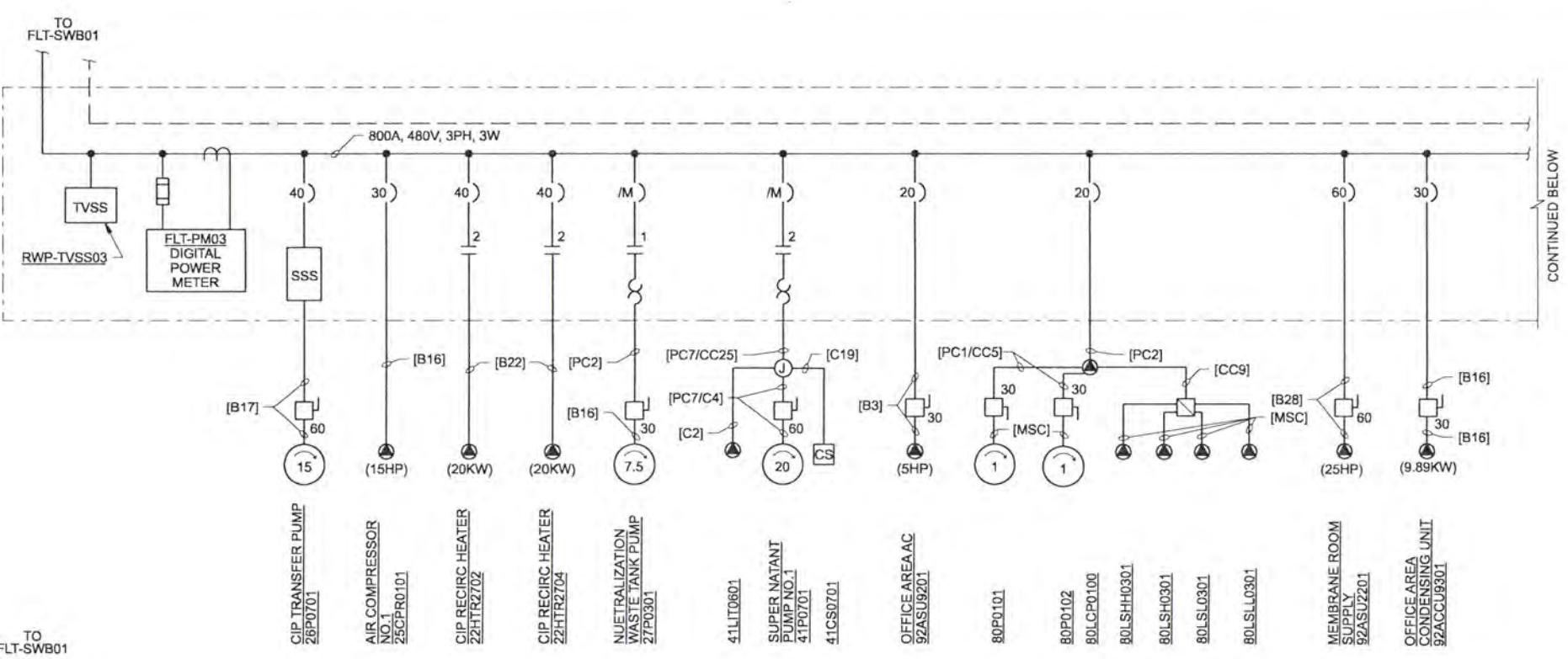
VERIFY SCALE
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CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 FLT-SWB01 ONE-LINE DIAGRAM

SHEET	228
DWG	50-E-501
DATE	APRIL 2004
PROJ	170368



RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	RG COLLETTE				
DR	MS MCNEELY				
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

FLT-MCC01 ONE-LINE DIAGRAM
 NTS

VERIFY SCALE
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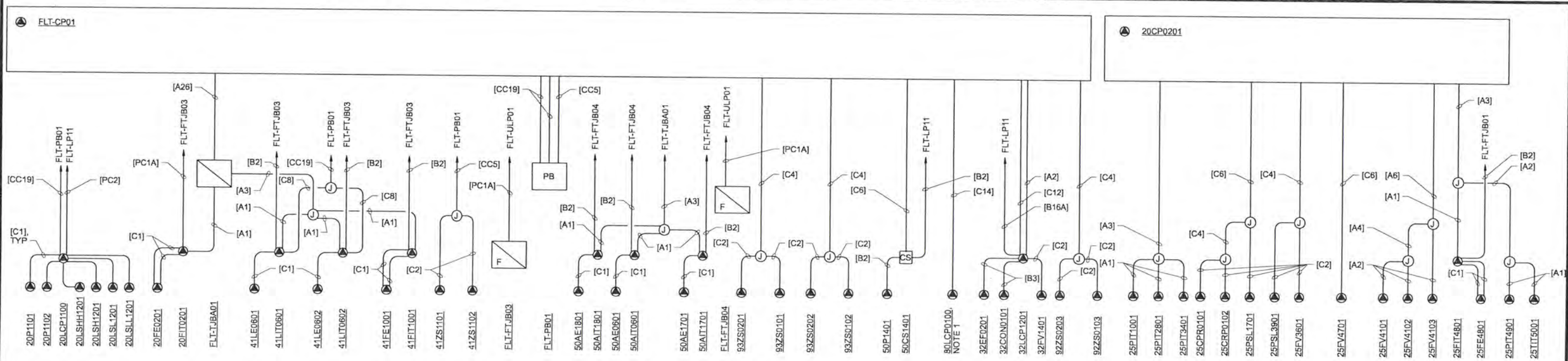
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 FLT-MCC01 ONE-LINE DIAGRAM

SHEET	229
DWG	50-E-502
DATE	APRIL 2004
PROJ	170368

- NOTES:**
- FOR EQUIPMENT LOCATIONS, REFER TO PLAN VIEW DRAWINGS.
 - FOR ADDITIONAL CONDUIT AND CONDUCTOR REQUIREMENTS, SEE PROCESS RISER DIAGRAMS.
 - FOR STARTER CONTROL CONNECTIONS, SEE MOTOR CONTROL DIAGRAMS.

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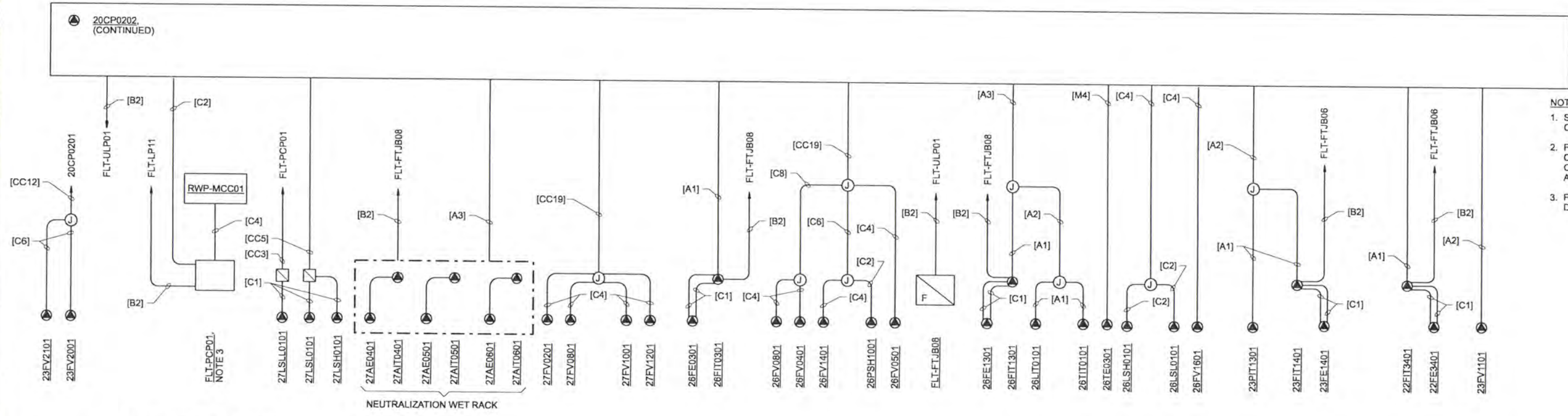


**RAW WATER AND BACKWASH
SETTLING BASIN RISER DIAGRAM**
NTS

**FLUORIDE
RISER DIAGRAM**
NTS

**COMPRESSED AIR
RISER DIAGRAM**
NTS

**BLOWER SYSTEM
RISER DIAGRAM**
NTS



- NOTES:**
1. SANITARY SEWER GRINDER PUMP CONTROL PANEL.
 2. FOR ADDITIONAL CONDUIT AND CONDUCTOR REQUIREMENTS, SEE ONE-LINE DIAGRAMS, DWGS 50-E-501 AND 50-E-502.
 3. FOR PANEL CONFIGURATION AND DETAILS, SEE DWG 50-E-507.

RECORD DRAWING
**NEUTRALIZATION
BASIN RISER DIAGRAM**

**CIP SUPPLY SYSTEM
RISER DIAGRAM**
NTS

**BACKWASH SUPPLY SYSTEM
RISER DIAGRAM**
NTS

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DR	MS MCNEELY									
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF					
APVD	CW MASSIE	NO.	DATE	REVISION		BY	APVD			

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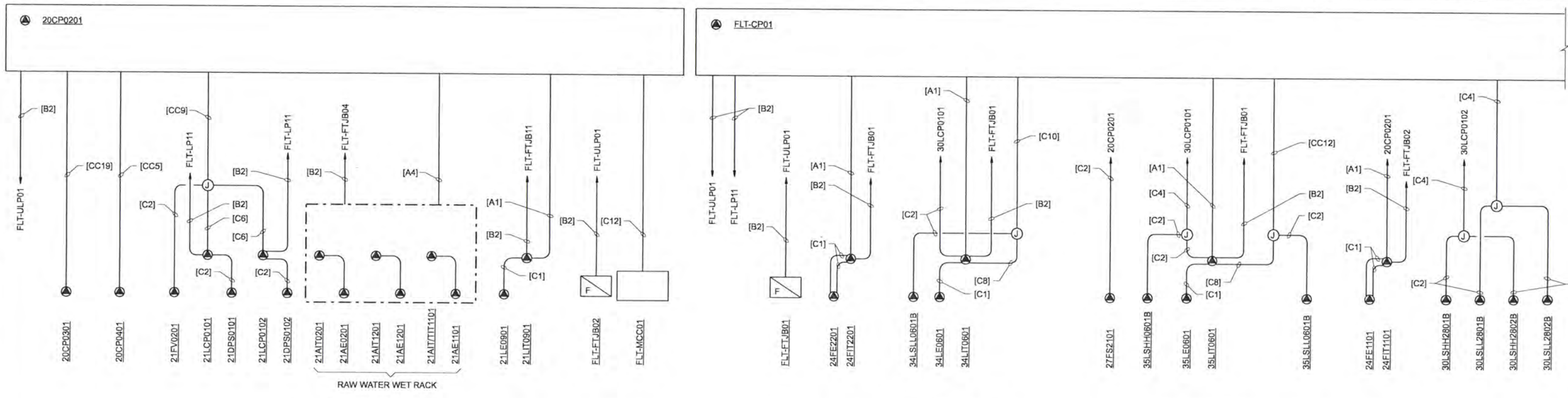
CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 RISER DIAGRAMS

SHEET	230
DWG	50-E-503
DATE	APRIL 2004
PROJ	170368

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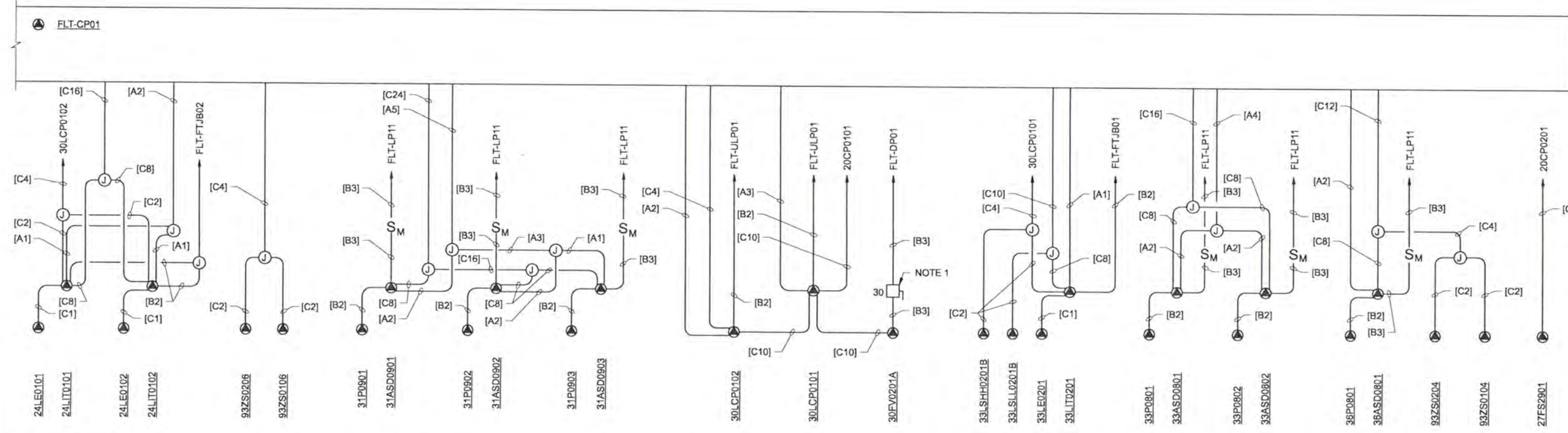


STRAINER RISER DIAGRAM
NTS

CITRIC ACID RISER DIAGRAM
NTS

SODIUM BISULPHITE RISER DIAGRAM
NTS

SODIUM HYPOCHLORITE RISER DIAGRAM
NTS



SODIUM HYPOCHLORITE RISER DIAGRAM
NTS

TRUCK UNLOAD PANELS RISER DIAGRAM
NTS

ALUMINUM CHLOROHYDRATE RISER DIAGRAM
NTS

SODIUM HYDROXIDE RISER DIAGRAM
NTS

NOTE:
1. NEMA 4X STAINLESS STEEL ENCLOSURE. MOUNT DISCONNECT SWITCH FOR VALVE ON WALL ADJACENT TO 30LCP0101. CLEARLY LABEL DISCONNECT AS SERVING CONTAINMENT AREA VALVE DRAIN.

RECORD DRAWINGS

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DSGN	RG COLLETTE								
DR	MS MCNEELY								
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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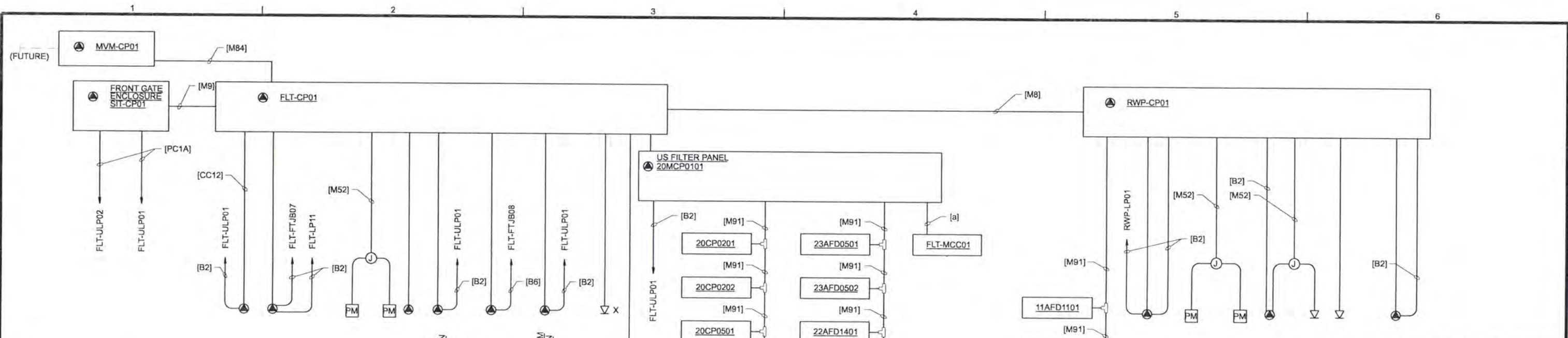


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FILTRATION BUILDING
ELECTRICAL
RISER DIAGRAMS

SHEET	231
DWG	50-E-504
DATE	APRIL 2004
PROJ	170368

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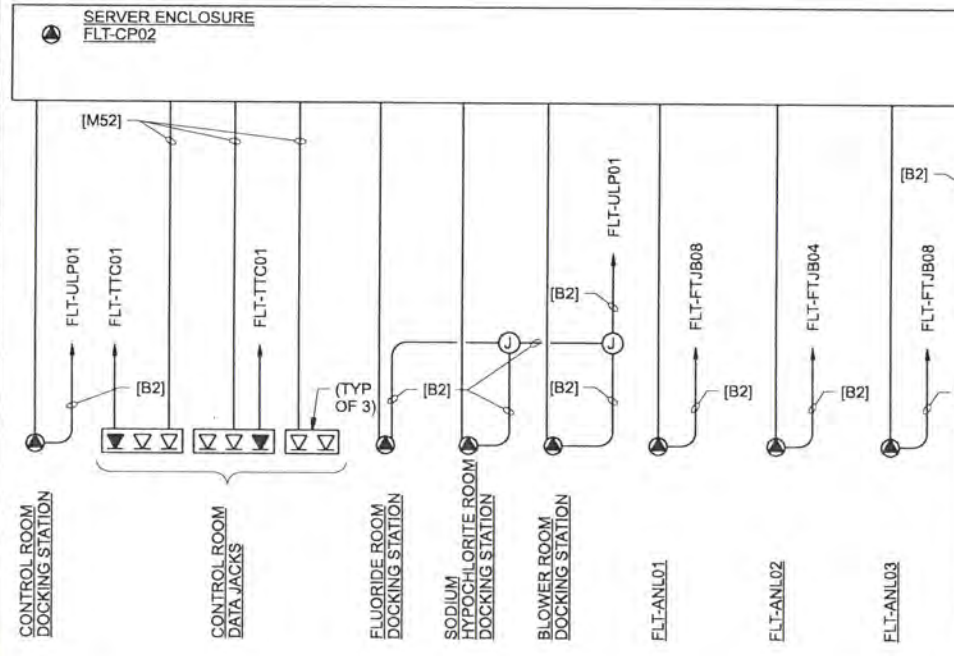


NOTES:

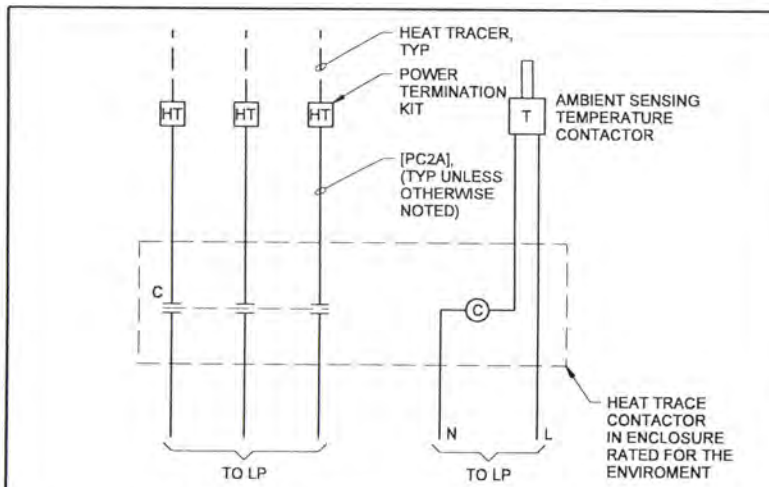
1. CONDUIT AND CONDUCTOR CALLOUT [M51] UNLESS OTHERWISE NOTED.
2. FOR LOCATIONS OF IP PHONES, SEE FACILITY PLAN VIEWS.

CIRCUIT AND CONDUCTOR CALLOUT (THIS DWG ONLY)

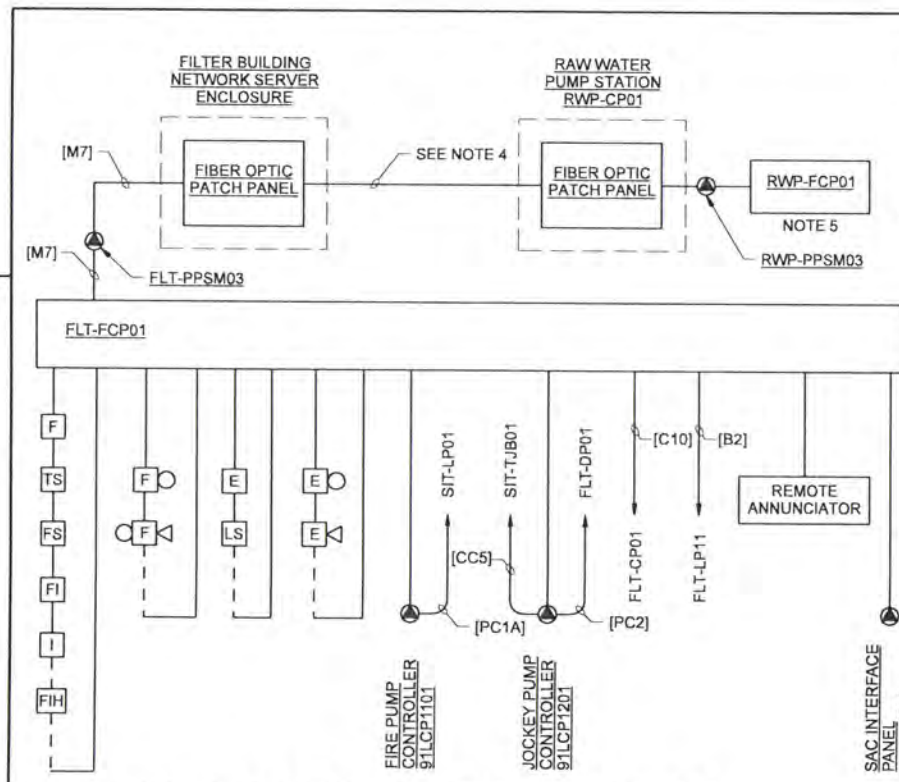
[a] = [CC5] 22HTR2701
 [CC5] 22HTR2702
 [CC5] 22HTR2703
 [CC5] 22HTR2704
 [CC5] 26HTR0301
 [CC9] 27P0301
 [CC9] 27P0302
 [CC12] 26P0701



NETWORK SYSTEM RISER DIAGRAM
NTS



HEAT TRACE CONTROLLER DIAGRAM
NTS



FIRE ALARM SYSTEM RISER DIAGRAM
NTS

NOTES:

1. FIRE SYSTEM SHOWN SCHEMATICALLY. REPRESENTATIVE DEVICES ARE SHOWN. DEVICE LOCATION, QUANTITIES, AND TYPE TO BE DETERMINED BY FIRE ALARM SYSTEM VENDOR. SEE FACILITY PLAN VIEWS AND SPECIFICATIONS. SEE NOTE ON PLAN VIEWS REGARDING SMOKE DETECTOR QUANTITIES/PLACEMENT.
2. FIRE SYSTEM SHOWN SCHEMATICALLY. CONDUCTOR TYPE BETWEEN THE FACP AND THE DEVICES ARE MANUFACTURER SPECIFIC AND WILL VARY ACCORDINGLY. INSTALL ALL CONDUCTORS EXTERIOR TO THE FACP AND THE DEVICES IN CONDUIT SIZED PER THE NEC REQUIREMENTS FOR CONDUCTOR FILL. MINIMUM CONDUIT SIZE SHALL BE 3/4".
3. FIRE PANEL ALSO PERFORMS EMERGENCY ALARM OPERATIONS AS REQUIRED BY UFC.
4. FIBER OPTIC CABLE INSTALLED WITH RW CONVEYANCE PIPING AND WHOSE INSTALLATION IS NOT UNDER THE SCOPE OF THE FIRE ALARM SYSTEM INSTALLER.
5. RAW WATER PUMP STATION SYSTEM SHOWN FOR REFERENCE ONLY. FOR INFORMATION SPECIFIC TO THAT SYSTEM, SEE DWG 20-E-502.

RECORD DRAWINGS

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DSGN	RG COLLETTE				
DR	MS MCNEELY				
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE			BY	APVD

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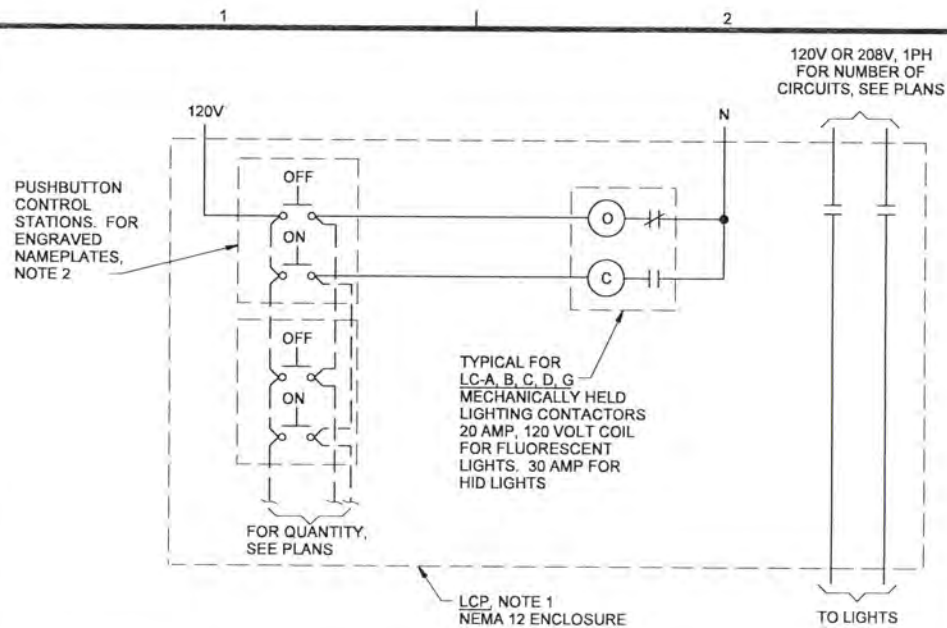


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 DIAGRAMS AND DETAILS

SHEET	233
DWG	50-E-506
DATE	APRIL 2004
PROJ	170368

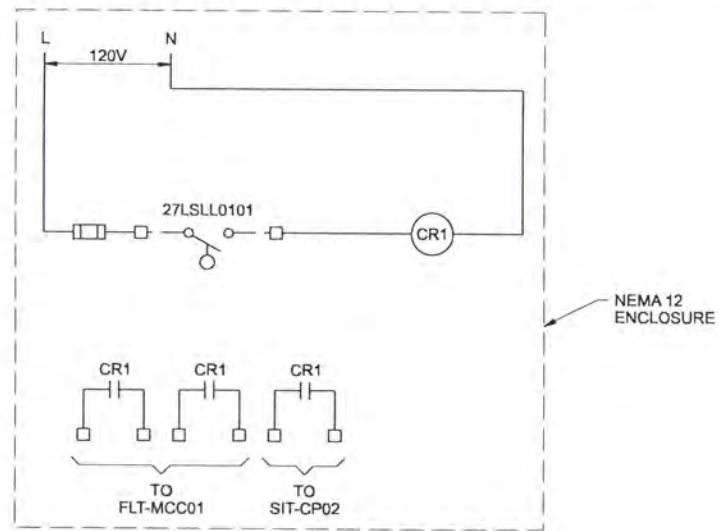
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NOTES:

1. MOUNT CONTACTORS IN ONE ENCLOSURE, PAINTED STEEL, NEMA 12, SIZE AS REQUIRED. WALL MOUNTED WITH HINGED DOOR, WITH PADLOCKING HANDLE AND TWO SETS OF KEYS. ENGRAVE NAMEPLATE: "INTERIOR LIGHTING CONTACTORS".
2. ENGRAVE NAMEPLATE FOR EACH CONTROL STATION AS FOLLOWS:
 CS-A "WALL MOUNT FLUORESCENT LIGHTS"
 CS-B "LOWER WALKWAY LIGHTS"
 CS-C "UPPER WALKWAY LIGHTS"
 CS-D "EAST HIBAY LIGHTS"
 CS-G "WEST HIBAY LIGHTS"

INTERIOR LIGHTING CONTROL DIAGRAM
NTS



FLOAT CUTOFF CONTROL PANEL FLT-PCP01
NTS

RECORD DRAWINGS

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DSGN	RG COLLETTE								
DR	MS MCNEELY								
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	BY	APVD				

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CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 CONTROL DIAGRAMS

SHEET	234
DWG	50-E-507
DATE	APRIL 2004
PROJ	170368

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ELECTRICAL PANELBOARD SCHEDULE														
PANEL: FLT-DP01			LOCATION: ELECTRICAL ROOM											
VOLTAGE: 480V 3PH, 3W			MOUNTING: SURFACE											
BUS SIZE: 225A			FED FROM: FLT-SWB01											
MAIN SIZE: 225A			MAIN TYPE: CB											
CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER			CIRCUIT TITLE	
	CKT NO	AMP	POLE	A	B	C	A	B	C	POLE	AMP	CKT NO		
SIT-DP01	1	100	3	15000			3000			3	20	2	MEMSAP UNIT	
-	3	-	-	15000			3000				-	4	-	
-	5	-	-		15000			3000			-	6	-	
SPARE	7	20	3							3	15	8	SPARE	
-	9	-	-							-	-	10	-	
-	11	-	-							-	-	12	-	
50FV0501	13	-	-	1000			3300			3	20	14	FORKLIFT CHARGER	
FW VALVE	15	-	-	1000			3300			-	-	16	(16 AMP)	
-	17	-	-		1000			3300		-	-	18	-	
SPACE	19	-	-			1000				3	15	20	30FV0201	
SPACE	21	-	-				1000			-	-	22	TRUCK CONTAINMENT	
SPACE	23	-	-				1000			-	-	24	-	
SPACE	25	-	-				14500			3	80	26	50LCP1900 W1 BOOST	
SPACE	27	-	-				14500			-	-	28	(2-15hp)	
SPACE	29	-	-				14500			-	-	30	-	
92UH3401	31	20	3	1333								32	SPACE	
BLOWER ROOM	33	-	-	1333								34	SPACE	
-	35	-	-		1333							36	SPACE	
SPACE	37	-	-				25000			3	150	38	FLT-LP01	
SPACE	39	-	-				25000			-	-	40	VIA XFMR FLT-TX01	
SPACE	41	-	-				25000			-	-	42	-	
TOTAL LOAD				17333	17333	17333	46800	46800						

PHASE A LOAD (VA) = 64133
PHASE B LOAD (VA) = 64133
PHASE C LOAD (VA) = 64133
TOTAL LOAD (VA) = 192399

ELECTRICAL PANELBOARD SCHEDULE														
PANEL: FLT-LP02			LOCATION: ELECTRICAL ROOM											
VOLTAGE: 208Y/120V 3PH, 4W			MOUNTING: SURFACE											
BUS SIZE: 100A			FED FROM: FLT-LP01											
MAIN SIZE: 100A			MAIN TYPE: CB											
CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER			CIRCUIT TITLE	
	CKT NO	AMP	POLE	A	B	C	A	B	C	POLE	AMP	CKT NO		
RCPTS-MECH ELECT MEZZ	1	20	1	720			720			1	20	2	RCPTS-MEMBRANE RM	
RCPTS-TOILETS EXTERIOR	3	20	1		720			720		1	20	4	RCPTS-MEMBRANE RM	
RCPTS-LOBBY EXTERIOR	5	20	1			900			360	1	20	6	MULTI-OUTLET-PARTS	
MULTI-OUTLET-ANALYZER RM	7	20	1	720			540			1	20	8	MULTI-OUTLET-PARTS	
MULTI-OUTLET-ANALYZER RM	9	20	1	720			360			1	20	10	MULTI-OUTLET-PARTS	
RCPT-UCR/F ANALYZER RM	11	20	1							1	20	12	RCPTS-PARTS TANKS	
RCPT-DWS ANALYZER RM	13	20	1	360			900			1	20	14	RCPTS-BLOWER RM	
RCPTS-ANALYZER EAST WALL	15	20	1	720						1	20	16	SPACE	
RCPTS-ANALYZER RM	17	20	1			360			900	1	20	18	RCPTS-MEMBR EAST WALL	
RCPTS-FLUORIDE EXTERIOR	19	20	1	720			900			1	20	20	RCPTS-MEMBR SOUTH WALL	
RCPTS-SODIUM HYPO	21	20	1	720			900			1	20	22	RCPTS-MEMBR WEST WALL	
RCPTS- UPPER WALKWAY	23	20	1			720			1000	2	20	24	RCPT-SHOP	
92UH401	25	20	1	360			1000			-	-	26	-	
92EF8501	27	20	1			667			360	1	15	28	SIT-CP01	
92UH401, 92UH-5401	29	20	1			230				1	15	30	SPACE	
92EF7501	31	20	1			506				1	20	32	SPACE	
92EF5501	33	20	1			700				1	20	34	SPACE	
SPARE	35	20	1									36	MICROWAVE OVEN	
SPARE	37	20	1				1200			1	20	38	REFRIGERATOR	
SPARE	39	20	1							1	20	40	SPACE	
92HCP0201	41	20	1			750						42	SPACE	
TOTAL LOAD				3386	4247	3680	5260	2340	4260					

PHASE A LOAD (VA) = 6646
PHASE B LOAD (VA) = 6567
PHASE C LOAD (VA) = 7940
TOTAL LOAD (VA) = 23173

ELECTRICAL PANELBOARD SCHEDULE														
PANEL: FLT-ULP01			LOCATION: FILTRATION BLDG ELECTRICAL ROOM											
VOLTAGE: 208Y/120V 3PH, 4W			MOUNTING: SURFACE											
BUS SIZE: 100A			FED FROM: FLT-UPS01											
MAIN SIZE: 100A			MAIN TYPE: CB											
CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER			CIRCUIT TITLE	
	CKT NO	AMP	POLE	A	B	C	A	B	C	POLE	AMP	CKT NO		
Z0MCP0101	1	20	1	695			1800			1	20	2	RCPT_ANALYZER ROOM	
30LCP0101	3	20	1		695			500		1	20	4	FLT-FUB01	
30LCP0102	5	20	1			598			500	1	20	6	FLT-FUB02	
Z0CP0202	7	20	1	1028			500			1	20	8	FLT-FUB03	
Z0CP0201	9	20	1		960			500		1	20	10	FLT-FUB04	
FLT-CP02	11	30	1			2104			500	1	20	12	SIT-FUB01	
Z0CP0501	13	20	1	598			500			1	20	14	FLT-FUB06	
Z0CP0502	15	20	1		598			500		1	20	16	FLT-FUB07	
Z0CP0503	17	20	1			598			500	1	20	18	FLT-FUB08	
Z0CP0504	19	20	1	598						1	20	20	SPARE	
FLT-CP01	21	20	1		660			500		1	20	22	FLT-FUB11	
DOCKING STN ELEC/CNTRL RMS	23	15	1			424			500	1	20	24	FLT-FUB12	
DKNG STN CHEM/BLWR RMS	25	15	1	424			500			1	20	26	FLT-FUB13	
SPARE	27	30	1				500			1	20	28	FLT-FUB14	
FLT-T001	29	20	1			780			360	1	20	30	FLT-DLR01	
RCPTS CONTROL ROOM	31	20	1	720			360			1	20	32	SIT-CP01	
RCPTS CONTROL ROOM	33	20	1		720			900		1	20	34	FLT-CP05	
RCPTS CONTROL ROOM	35	20	1			720				1	20	36	SPACE	
RCPTS CONTROL ROOM	37	20	1	760						1	20	38	SPACE	
RCPTS SERVER CLOSET	39	20	1			1000				1	15	40	SPACE	
SPARE	41	20	1							1	15	42	SPACE	
TOTAL LOAD				4823	4633	5224	3660	3400	2360					

PHASE A LOAD (VA) = 8483
PHASE B LOAD (VA) = 8233
PHASE C LOAD (VA) = 7584
TOTAL LOAD (VA) = 24300

ELECTRICAL PANELBOARD SCHEDULE														
PANEL: FLT-LP01			LOCATION: ELECTRICAL ROOM											
VOLTAGE: 208Y/120V 3PH, 4W			MOUNTING: SURFACE											
BUS SIZE: 225A			FED FROM: FLT-DP01 VIA FLT-TX01											
MAIN SIZE: 200A			MAIN TYPE: CB											
CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER			CIRCUIT TITLE	
	CKT NO	AMP	POLE	A	B	C	A	B	C	POLE	AMP	CKT NO		
LTS-MECH ELECT MEZZ	1	20	1	930			1302			1	20	2	LTS-MEMBRANE	
LTS-TOILETS JAN LOBBY	3	20	1		1008			930		1	20	4	LTS-TANKS PARTS	
LTS-ANALYZER CONTROL RM	5	20	1			752			682	1	20	6	LTS-BLOWER ROOM	
LTS-FLUORIDE BOD HYPO	7	20	1	1240			992			1	20	8	LTS-LWR WALKWAY VIA LC	
LTS-UPPER WALKWAY VIA LC	9	20	1		868			372		1	20	10	LTS-EASTWALL VIA LC	
LTS-EQUIPMENT WALKWAY	11	20	1			372			496	1	20	12	LTS-SOUTH WALL	
92-EF-5501	13	20	1	667						1	20	14	LTS-OVERHEAD DOORS	
92-UH-5401	15	20	1	1300			2300			2	20	16	LTS-HID WEST VIA LC	
-	17	20	1		1300			2300		-	-	18	-	
92-UH-9501	19	20	1	495			2070			2	20	20	LTS-HID EAST VIA LC	
SPARE	21	20	1				2070			-	-	22	-	
92DF9401	23	20	1			360			2070	2	20	24	LTS-HID EAST VIA LC	
ROLL-UP DOOR 1	25	20	1	710			2070			2	20	26	-	
- (3/4HP)	27	20	1		710			2250		2	40	28	FLT-WH01	
-	29	20	1			710			2250	-	-	30	(4.5KW)	
ROLL-UP DOOR 2	31	20	1	710			760			1	20	32	92HCP2000	
- (3/4HP)	33	20	1		710					1	20	34	SPACE	
-	35	20	1			710				1	20	36	SPACE	
FRONT GATE SIT-GAT01	37	20	3	700			6646			3	100	38	FLT-LP02	
- (1HP)	39	-	-			700			6687	-	-	40	-	
-	41	-	-			700			7940	-	-	42	-	
TOTAL LOAD				5452	5296	4904	15840	14509	15738					

PHASE A LOAD (VA) = 21292
PHASE B LOAD (VA) = 19905
PHASE C LOAD (VA) = 20642
TOTAL LOAD (VA) = 61739

ELECTRICAL PANELBOARD SCHEDULE													
PANEL: FLT-LP11			LOCATION: FILTRATION BLDG ELECTRICAL ROOM										
VOLTAGE: 208Y/120V 3PH, 4W			MOUNTING: SURFACE										
BUS SIZE: 100A			FED FROM: FLT-DP01 VIA FLT-TX01										
MAIN SIZE: 100A			MAIN TYPE: CB										
CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER			CIRCUIT TITLE
	CKT NO	AMP	POLE	A	B	C	A	B	C	POLE	AMP	CKT NO	
50CS1401 (RW SAMPLE PUMP)	1	20	1	360			200			2	20	2	33AS00801
50CS0701 (FW SAMPLE PUMP)	3	20	1		360			200		-	-	4	(1/8 HP)
FLT-FCP01	5	20	1			600			200	2	20	6	33AS00802
32LCP1201 (FLUORIDE)													

LUMINAIRE SCHEDULE

TYPE/SYMBOL	VOLTAGE	WATTAGE	DESCRIPTION	MANUF/CATALOG NO.	LAMPS	BALLASTS	MOUNTING
	120	62	24"Wx48"Lx6"D STATIC TROFFER WITH 100% VIRGIN ACRYLIC PRISMATIC LENS. DIE-FORMED REGRESSED STEEL DOOR, MITRED CORNERS WITH BAKED WHITE ENAMEL FINISH. POSITIVE CAM ACTION LATCHES AND T-HINGES ON BOTH SIDES. LER=FL-75	METALUX 2GMSR-232-A125-LEOC3	(2)FO32,T8, 32W,RS,41K	ELECTRONIC	RECESSED
1E	120	62	SIMILAR TO TYPE "1" EXCEPT: WITH TWO LAMP 1350 LUMEN INTEGRAL EMERGENCY BALLAST.	METALUX 2GMSR-232-A125-LEOC3-EL4			
	120	94	SIMILAR TO TYPE "1" EXCEPT: THREE LAMPS. LER=FL-76	METALUX 2GMSR-323-A125-LEOC3	(3)FO32,T8, 32W,RS,41K	ELECTRONIC	
2E	120	94	SIMILAR TO TYPE "2" EXCEPT: WITH TWO LAMP 1350 LUMEN INTEGRAL EMERGENCY BALLAST.	METALUX 2GMSR-323-A125-LEOC3-EL4			
	120	62	13"Wx48"Lx7"H OPEN INDUSTRIAL FLUORESCENT WITH 20% UPLIGHT. DIE-FORMED STEEL REFLECTOR WITH BAKED WHITE ENAMEL FINISH.	METALUX EIM232	(2)FO32,T8, 32W,RS,41K	ELECTRONIC	PENDANT MOUNT ON RIGID CONDUIT STEMS AT +10'-0" AFF UNLESS OTHERWISE NOTED.
3E	120	62	SIMILAR TO TYPE "3" EXCEPT: WITH TWO LAMP 1350 LUMEN INTEGRAL EMERGENCY BALLAST.	METALUX EIM232-EL4	(2)FO32,T8, 32W,RS,41K	ELECTRONIC	
	120	62	8"Wx6"Dx50"L ENCLOSED AND GASKETED FIBERGLASS HOUSING. HIGH IMPACT ACRYLIC LENS. SPECULAR SILVER LAMINATE REFLECTOR CONTINUOUS NEOPRENE GASKET. U.L. LISTED FOR "WET LOCATIONS" AND "SPRAY WASHDOWN" AREAS. NORMAL BEAM TYPE DISTRIBUTION. LER=FL-80	HOLOPHANE ES-S04S-NNN-S042-EP1	(2)FO32,T8, 32W,RS,41K	ELECTRONIC	PENDANT MOUNT ON RIGID CONDUIT STEMS AT +10'-0" AFF UNLESS OTHERWISE NOTED.
4E	120	62	SIMILAR TO TYPE "4" EXCEPT: WITH TWO LAMP 1350 LUMEN INTEGRAL EMERGENCY BALLAST. MUST BE RATED FOR INTEGRAL BALLAST INSTALLATION.				
	120	70	6"DIA RECESSED OPEN DOWNLIGHT WITH ADJUSTABLE BASE SOCKET. SPECULAR CLEAR REFLECTOR. WHITE TRIM RING. ENCAPSULATED BALLAST, PREWIRED JUNCTION BOX. ALL COMPONENTS ACCESSIBLE FROM BELOW CEILING. U.L. LISTED FOR "DAMP LOCATIONS".	CAPRI LIGHTING CM6V50-VIF-TO42Q	(1)50W ED17 METAL HALIDE	MINUS 20 DEGREES STARTING	RECESSED IN SOFFIT
	120	36	6"H RECESSED HOUSING x 6"DIA OPEN REFLECTOR DOWNLIGHT. ENCAPSULATED BALLAST. J-BOX AND BALLAST ACCESSIBLE FROM BELOW CEILING. CLEAR SPECULAR ALUM REFLECTOR. DIE STAMPED ALUM TRIM WITH WHITE POWDER COAT FINISH. U.L. LISTED FOR "DAMP LOCATIONS".	CAPRI CFR62H18Q-U-R6201	(2)18W QUAD 4-PIN,35K	ELECTRONIC	RECESSED
7E	120	36	SIMILAR TO TYPE "7" EXCEPT: WITH TWO LAMP EMERGENCY BALLAST.				
	120	36	SIMILAR TO TYPE "7" EXCEPT: POLYCARBONATE SHOWER LIGHT TRIM. POLYMER OPAL LENS. U.L. LISTED FOR "WET LOCATIONS".	CAPRI CFR62H18Q-U-R1-PSH12P			

LUMINAIRE SCHEDULE

TYPE/SYMBOL	VOLTAGE	WATTAGE	DESCRIPTION	MANUF/CATALOG NO.	LAMPS	BALLASTS	MOUNTING
	120	62	8"Wx6"Dx50"L ENCLOSED AND GASKETED FIBERGLASS HOUSING. HIGH IMPACT ACRYLIC LENS. SPECULAR SILVER LAMINATE REFLECTOR CONTINUOUS NEOPRENE GASKET. U.L. LISTED FOR "WET LOCATIONS" AND "SPRAY WASH-DOWN" AREAS. TASK BEAM TYPE DISTRIBUTION. LER=FL-87	HOLOPHANE ES-S04S-TTT-S042-EP1	(2)FO32,T8, 32W,RS,41K	ELECTRONIC	WALL MOUNT, INSTALL AS AN "INDOOR WET LOCATION" PER NEC 300.6(C).
9E	120	62	SIMILAR TO TYPE "9" EXCEPT: WITH TWO LAMP 1350 LUMEN INTEGRAL EMERGENCY BATTERY.				
	120	LED	EMERGENCY EXIT LIGHT: ALL DIECAST UNIVERSAL SURFACE MOUNTING. UNIVERSAL CHEVRONS, WHITE FINISH "GREEN" LETTERS ON WHITE BACKGROUND. LONG LIFE NICAD BATTERY. AUTOMATIC AC/DC CONVERSION. SINGLE OR DOUBLE FACE AS SHOWN. SHADED AREA INDICATES LIT FACE. ARROWS AS SHOWN ON PLANS.	PRESCOLITE EDC-X-G-EN-W	N/A	N/A	UNIVERSAL CEILING OR SURFACE WALL MT ON RECESSED OUTLET BOX. BOTTOM TO BE 4 INCHES ABOVE TOP OF DOOR FRAMING.
	120	LED	EMERGENCY EXIT SIGN WITH SELF-CONTAINED NICKLE CADMIUM BATTERY. CORROSION RESISTANT NEMA 4X ENCLOSURE. "GREEN" LETTERS.	HOLOPHANE MN-SP-L-1-G-W	N/A	N/A	
	120	15	EMERGENCY BATTERY UNIT: (DECORATIVE) 16"Lx5"Hx5"D COMPACT SIZE. HIGH IMPACT THERMOPLASTIC HOUSING WITH WHITE FINISH. TWIN LAMP HEADS, FULLY DIRECTIONAL. MAINT FREE 10 YEAR LEAD CALCIUM BATTERY. SOLID STATE CHARGER, PILOT LIGHT, TEST SWITCH. BLOWN OUT PROTECTION RATED 1.5 HOURS STANDBY.	PRESCOLITE EDS4 SERIES	(2)-7.2W HEADS INCLUDED W/UNIT	N/A	WALL
	120	25	EMERGENCY BATTERY UNIT: CORROSION AND IMPACT RESISTANT NEMA 4X FIBERGLASS HOUSING. MAINTENANCE FREE LEAD CALCIUM BATTERY. AC INDICATOR AND TEST SWITCH. LAMP SHIELDS. TIME DELAY RELAY.AUDIBLE ALARM CHECK. SUITABLE FOR WASHDOWN.	HOLOPHANE "NAVIGATOR" SERIES DM6-N-50T-NSSH-2-NA-TD-T120	(2)-25W HEADS INCLUDED W/UNIT	N/A	WALL
	120		8"Dx12"Wx12"L SHARP CUTOFF EXTERIOR WALL UNIT. CORROSION RESISTANT ALUM CANOPY W/ BAKED BRONZE POLYESTER PODER COAT FINISH. HINGED CANOPY,SPECULAR ALUMINUM REFLECTOR, SILICONE GASKETED. 5/32 INCH TEMPERED DIFFUSED GLASS LENS. U.L. LISTED FOR "WET LOCATIONS". SST HARDWARE.	GUTH "SUNDOWNER" SND-12-2-F26-PL-1	(2)-26W PL LAMPS COMPACT FLUOR	ELECTRONIC MINUS 20 DEGREE STARTING	WALL MOUNT ON RECESSED OUTLET BOX.
	120	XX	SIMILAR TO TYPE "14" EXCEPT: HIGH PRESSURE SODIUM LAMP AND FUSED.	GUTH "SUNDOWNER" SND-12-XX-HP-1	HPS		
	208	460	LOWBAY OPEN BOTTOM, 19"Hx26"W (SIDE MTD BALLAST)x16"DIA PRISMATIC BOROSILICATE "GLASS" REFLECTOR. ZINC PLATED WIRE FRAME SUPPORT FROM BOTTOM OF REFLECTOR. SAFETY CHAIN. SINGLE FUSE ASSEMBLY.	HOLOPHANE LP400PM-X-PN-B35	400W CLEAR METAL HALIDE PULSE START	HPF	PENDANT
	120	460	UNDERCABINET	ALKCO "LITTLE INCH"			MOUNT UNDER CABINET

LUMINAIRE NOTES

1. A) CIRCUIT NUMBERS AND PANEL DESIGNATIONS ARE SHOWN ADJACENT TO LIGHTS. FOR EXAMPLE: THE A-3 INDICATES CIRCUIT NO. 3 IN PANEL "A".
2. FOR UNFINISHED ROOMS FURNISH AND INSTALL 1 5/8"x1 5/8"x LENGTHS AS REQUIRED, GALVANIZED STEEL CHANNEL BETWEEN JOIST/TRUSSES. SUPPORT LIGHTS FROM CHANNELING.
3. COORDINATE LUMINAIRE LOCATION WITH HVAC, PLUMBING, AND SPRINKLER SYSTEMS BEFORE ROUGH-IN.
4. DO NOT RUN ANY CONDUITS EXPOSED ON THE OUTSIDE OF THIS EXTERIOR WALL.
5. DO NOT RUN ANY CONDUIT IN FRONT OF TRANSLUCENT GLAZING PANELS.
6. BEDROOMS: PROVIDE AND INSTALL ADDITIONAL BRACING/BACKING REQUIRED FOR THIS INSTALLATION OF THE PADDLE FANS.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	RW MARTINI									
DR	MS MCNEELY									
CHK	JF TURNER									
APVD	CW MASSIE									
		NO.	DATE	REVISION						
					JMD	RCF				
					BY	APVD				

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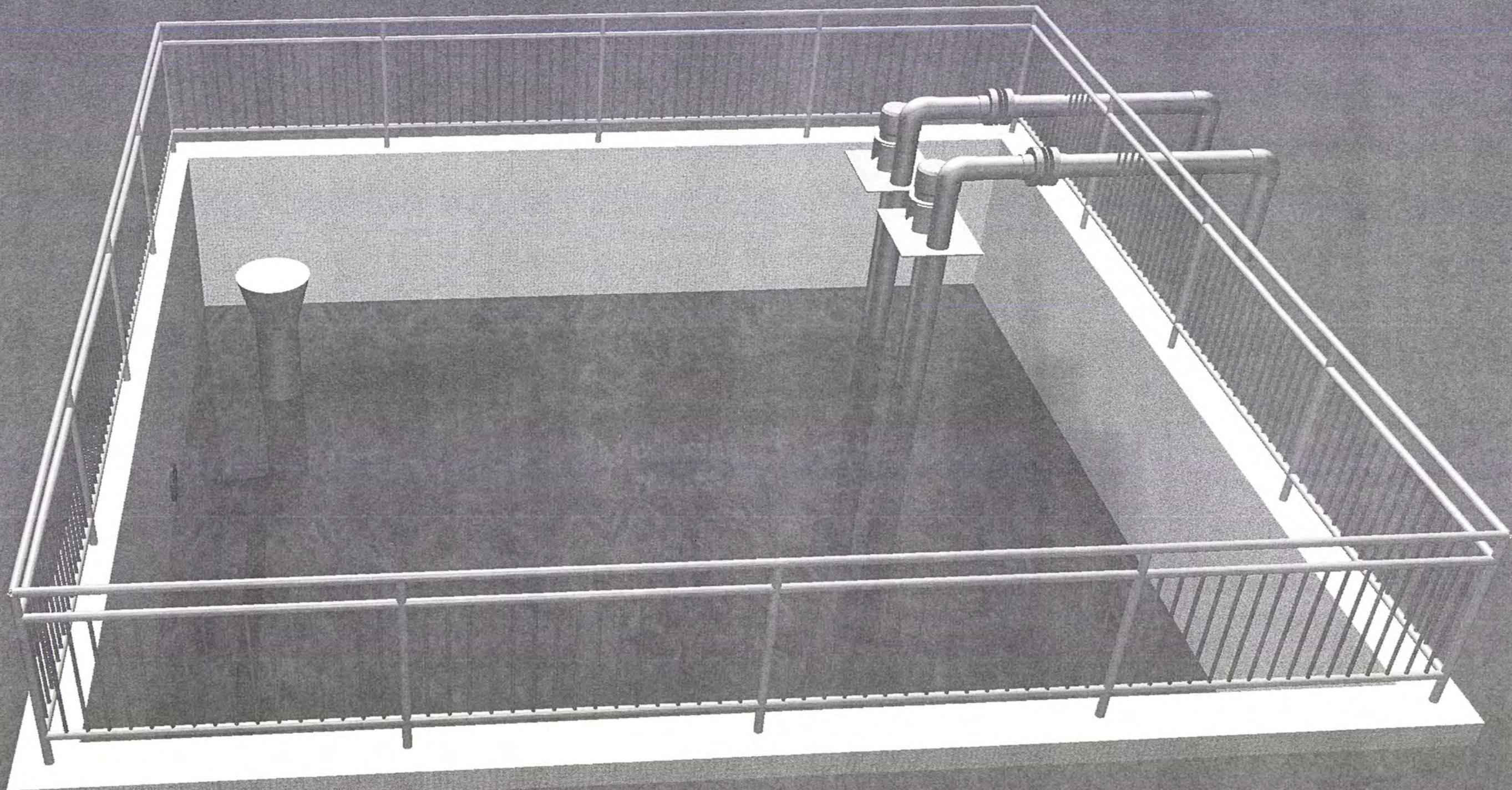
CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FILTRATION BUILDING
 ELECTRICAL
 LUMINAIRE SCHEDULE

SHEET	236
DWG	50-E-509
DATE	APRIL 2004
PROJ	170368

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DSGN	JE CAVE						
DR	JA HOSTETLER						
CHK	EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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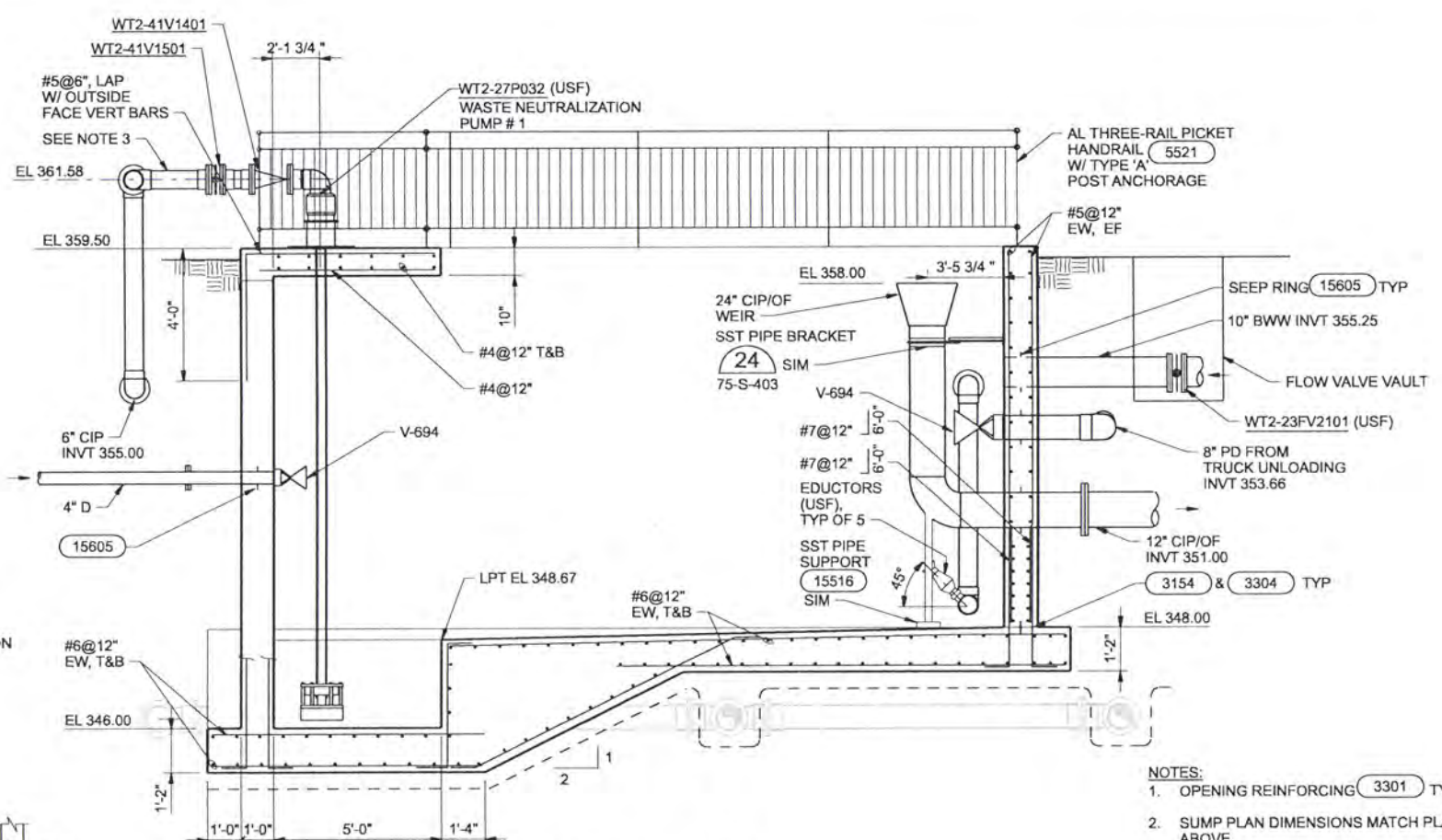
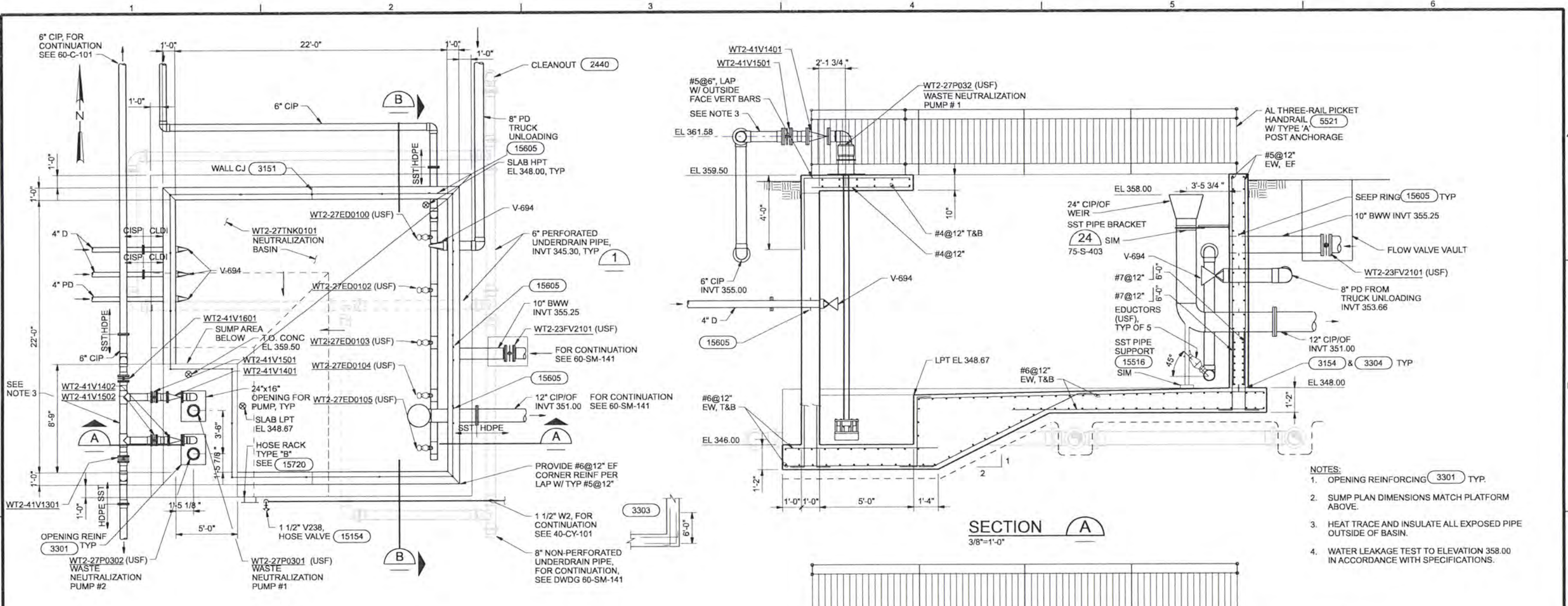


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 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

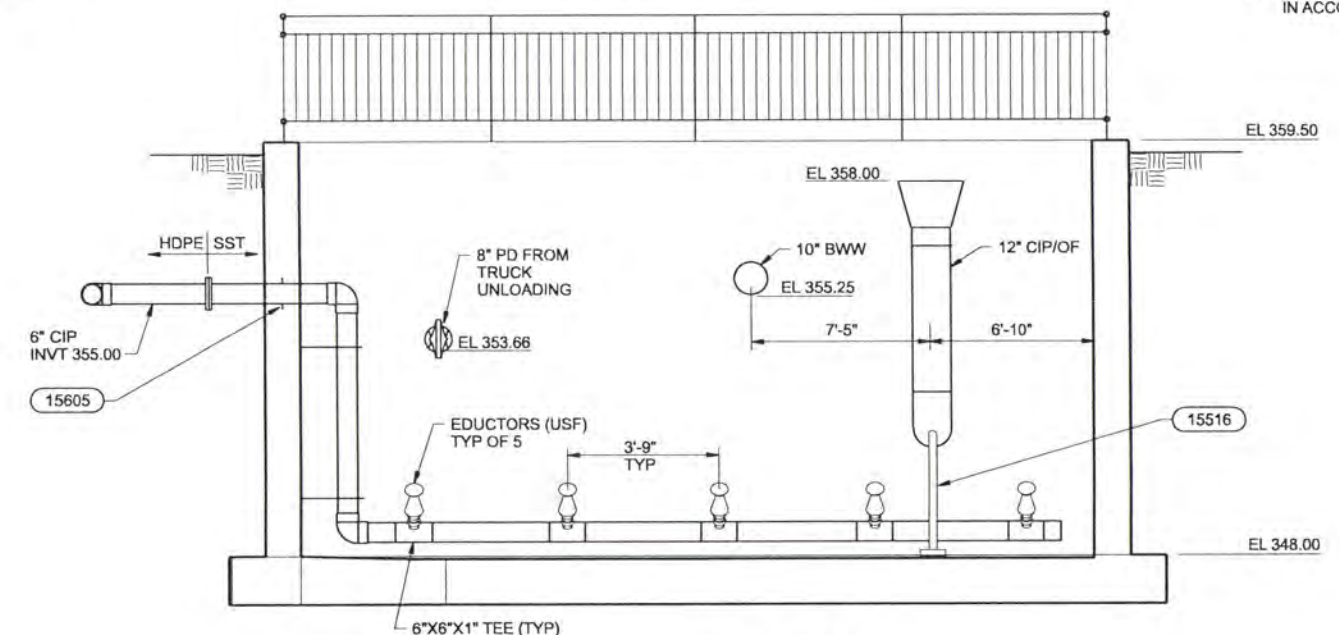
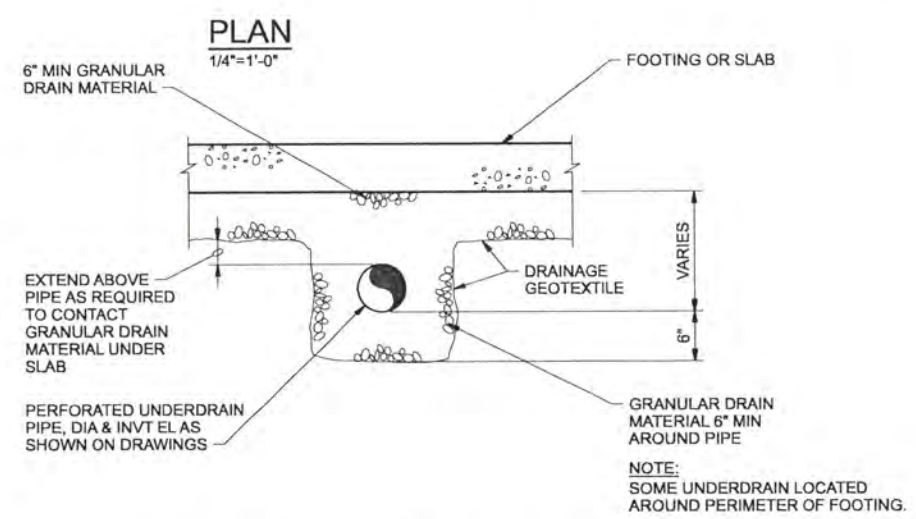
NEUTRALIZATION BASIN
 RENDERING - NORTH VIEW

SHEET	237
DWG	55-R-001
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
1. OPENING REINFORCING (3301) TYP.
 2. SUMP PLAN DIMENSIONS MATCH PLATFORM ABOVE.
 3. HEAT TRACE AND INSULATE ALL EXPOSED PIPE OUTSIDE OF BASIN.
 4. WATER LEAKAGE TEST TO ELEVATION 358.00 IN ACCORDANCE WITH SPECIFICATIONS.



RECORD DRAWINGS
 Revisions Drawn By JMD Date 6/2006
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TYPICAL UNDERDRAIN TRENCH (1)
 NTS
 60-SM-141

DESIGNER LOUIE M.J. MERKLEIN	DATE 6/2006	REVISION RECORD DRAWING	BY JMD	RCF RCF	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR KA ANDERSEN KJ DAVIS					
CHK CW MASSIE SM FREY					
APVD CW MASSIE	NO.	DATE	REVISION	BY	APVD

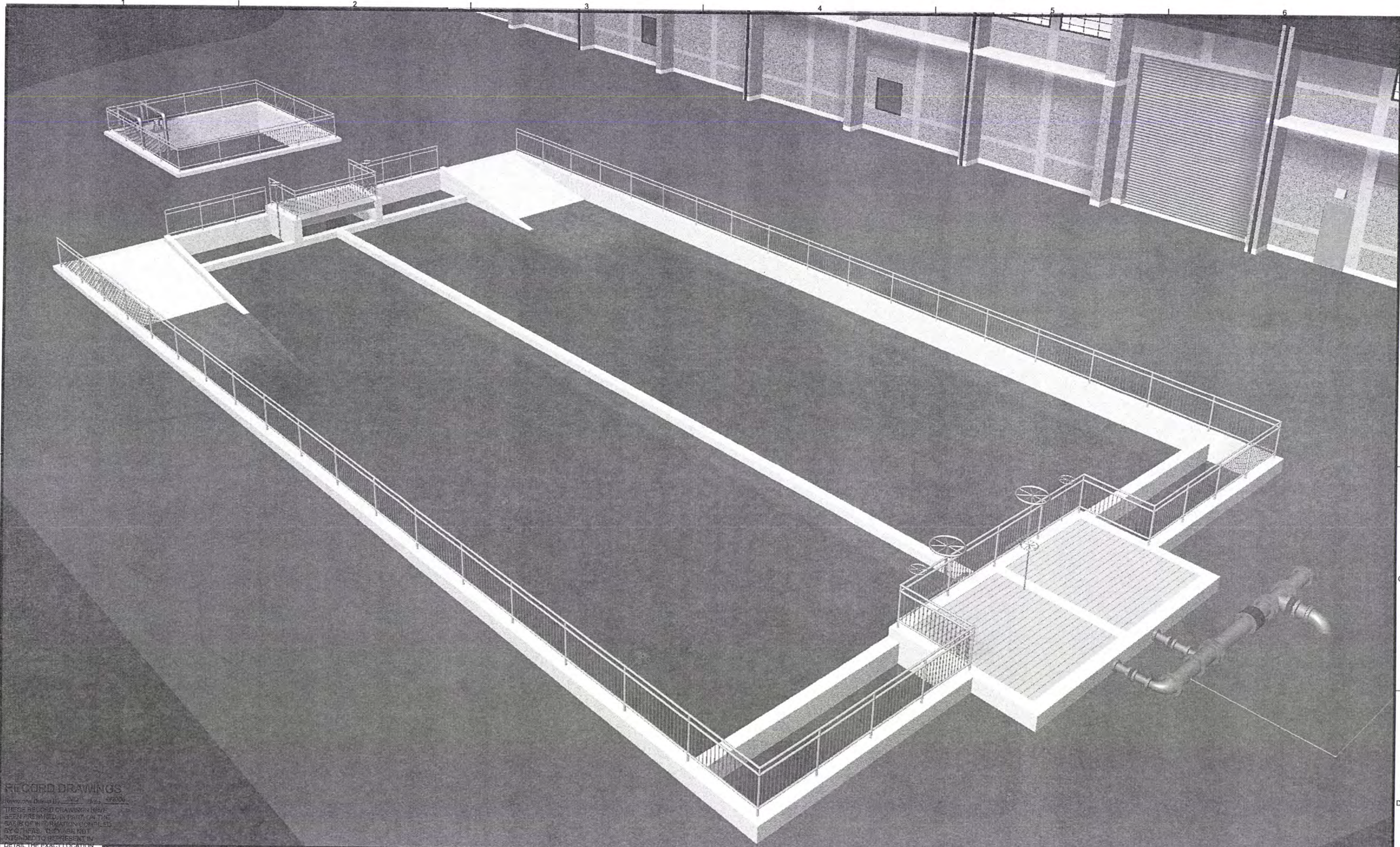


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

NEUTRALIZATION BASIN
 STRUCTURAL/MECHANICAL
 PLAN AND SECTIONS

SHEET	238
DWG	55-SM-141
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

Revised Date: 6/2006
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DSGN	JE CAVE						
DR	JA HOSTETLER						
CHK	EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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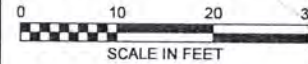
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

WASTE WATER SETTLING BASINS
 RENDERING - EAST VIEW

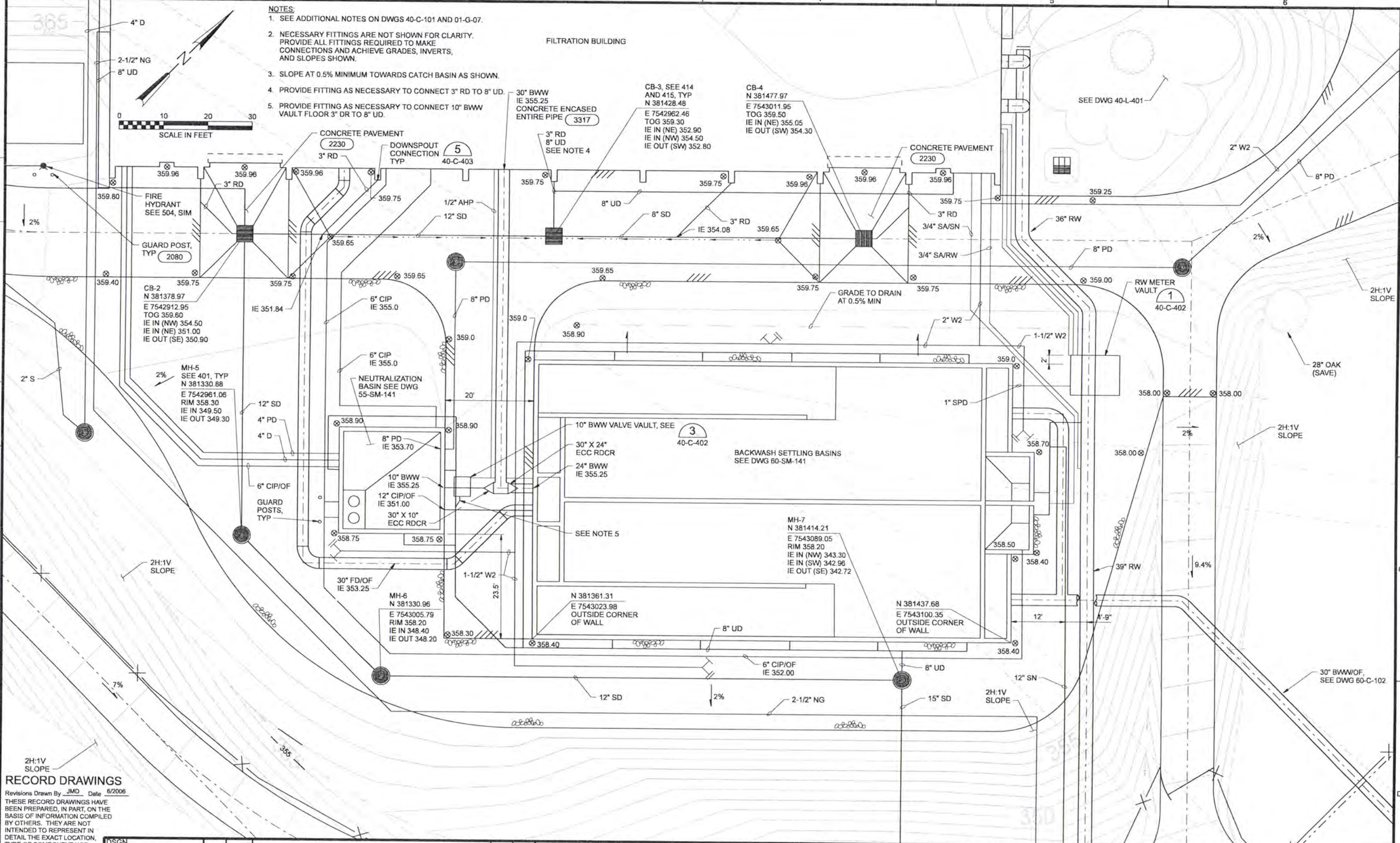
SHEET	239
DWG	60-R-001
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
1. SEE ADDITIONAL NOTES ON DWGS 40-C-101 AND 01-G-07.
 2. NECESSARY FITTINGS ARE NOT SHOWN FOR CLARITY. PROVIDE ALL FITTINGS REQUIRED TO MAKE CONNECTIONS AND ACHIEVE GRADES, INVERTS, AND SLOPES SHOWN.
 3. SLOPE AT 0.5% MINIMUM TOWARDS CATCH BASIN AS SHOWN.
 4. PROVIDE FITTING AS NECESSARY TO CONNECT 3" RD TO 8" UD.
 5. PROVIDE FITTING AS NECESSARY TO CONNECT 10" BWW VAULT FLOOR 3" DR TO 8" UD.



FILTRATION BUILDING



RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	JT ASHLEY				
DR	JT ASHLEY				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE			BY	APVD
		NO.	DATE	REVISION	

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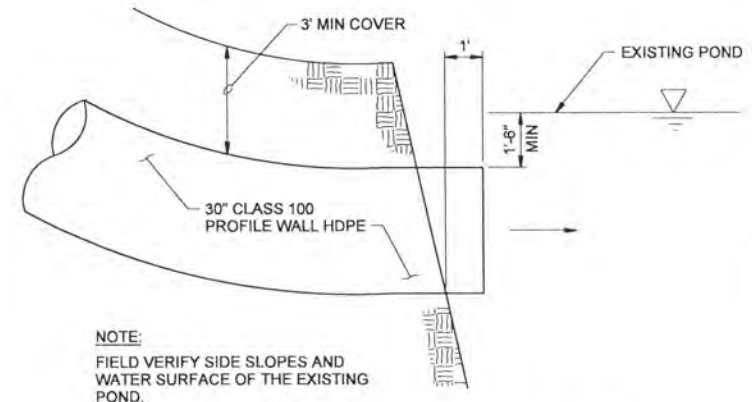
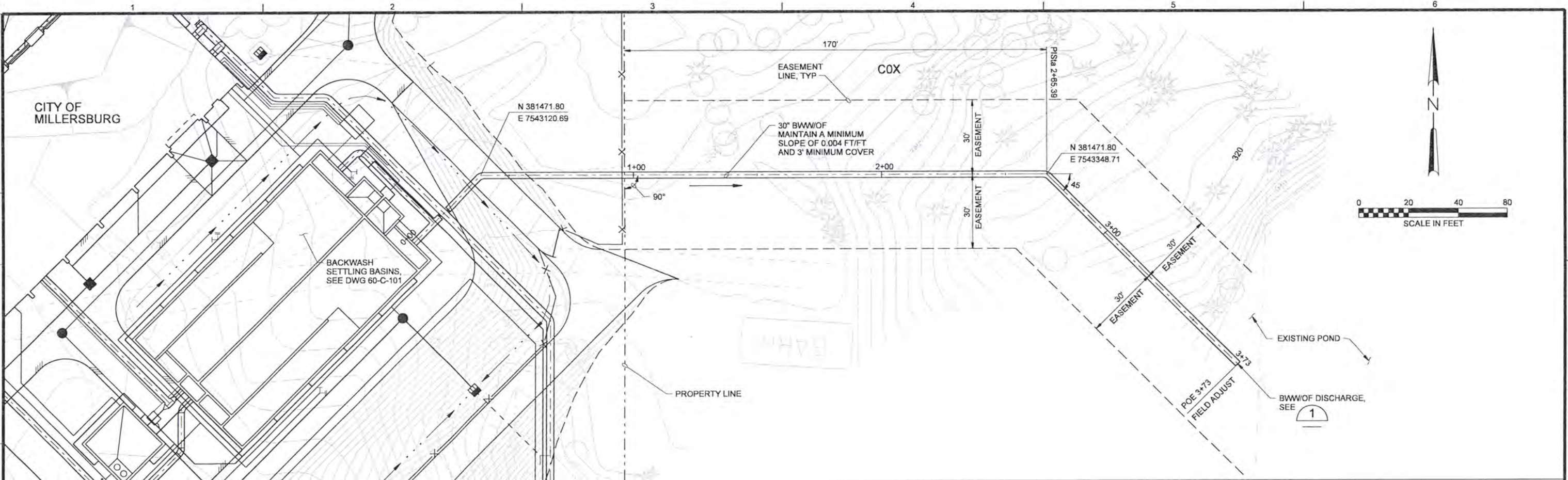


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

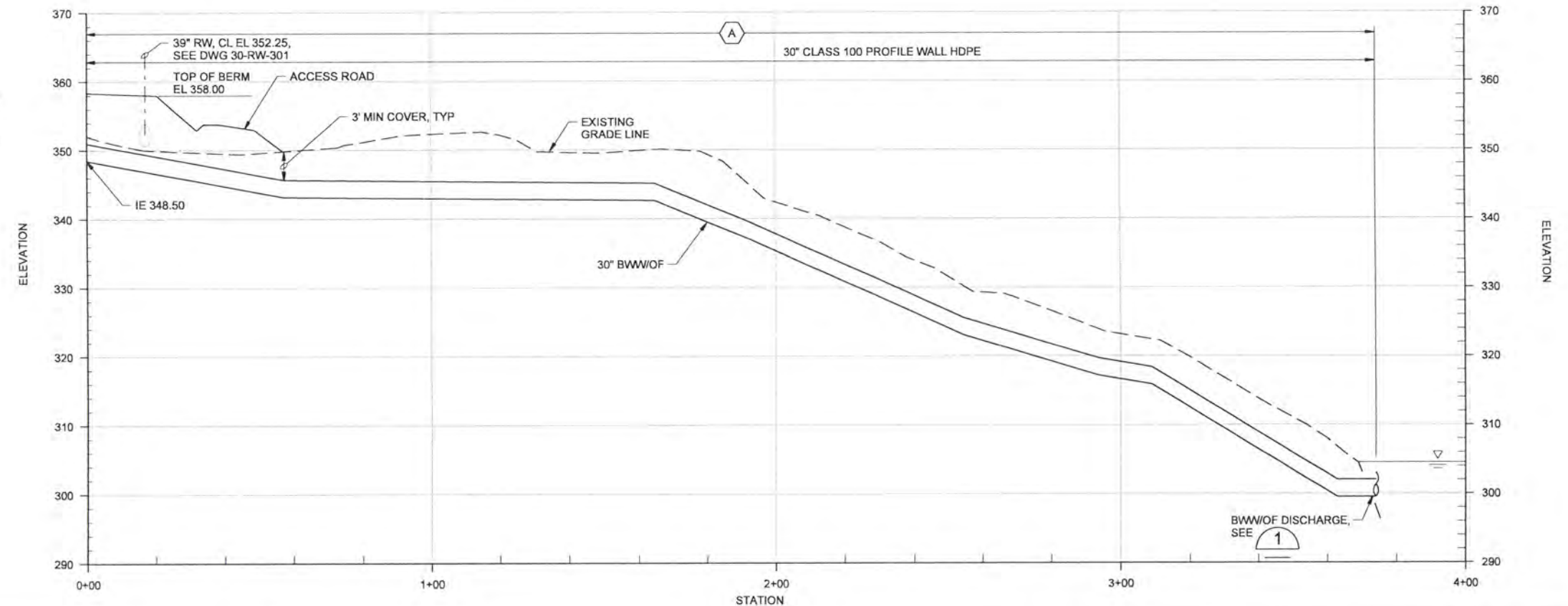
BACKWASH SETTLING BASINS
 CIVIL
 SITE PLAN

SHEET	240
DWG	60-C-101
DATE	APRIL 2004
PROJ	170368

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OVERFLOW DISCHARGE
NTS



RECORD DRAWINGS

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DSGN	JT ASHLEY				
DR	LG McCALL				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

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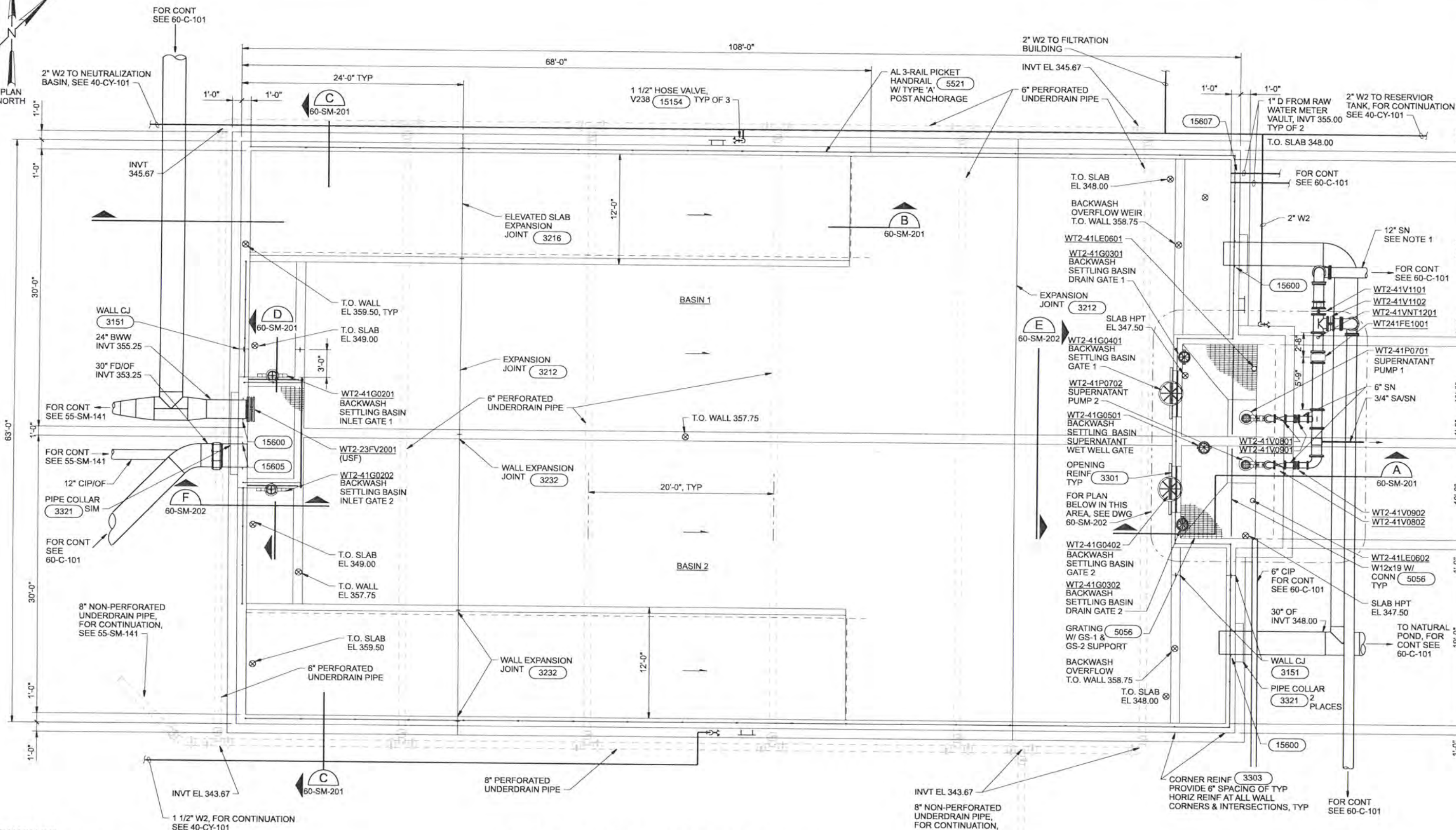
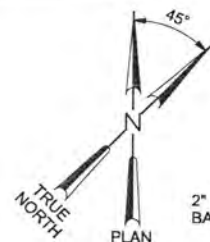


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

BACKWASH SETTLING BASINS
 CIVIL
 PLAN AND PROFILE

SHEET	241
DWG	60-C-102
DATE	APRIL 2004
PROJ	170368

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- NOTES:
 1. HEAT TRACE AND INSULATE ALL EXPOSED PIPE OUTSIDE OF BASIN.

GROUND LEVEL AND FOUNDATION PLAN
 3/16"=1'-0"

DRG	NO.	DATE	REVISION	BY	APVD
DR		6/2006	RECORD DRAWING	JMD	RCF
CHK				APVD	
APVD					

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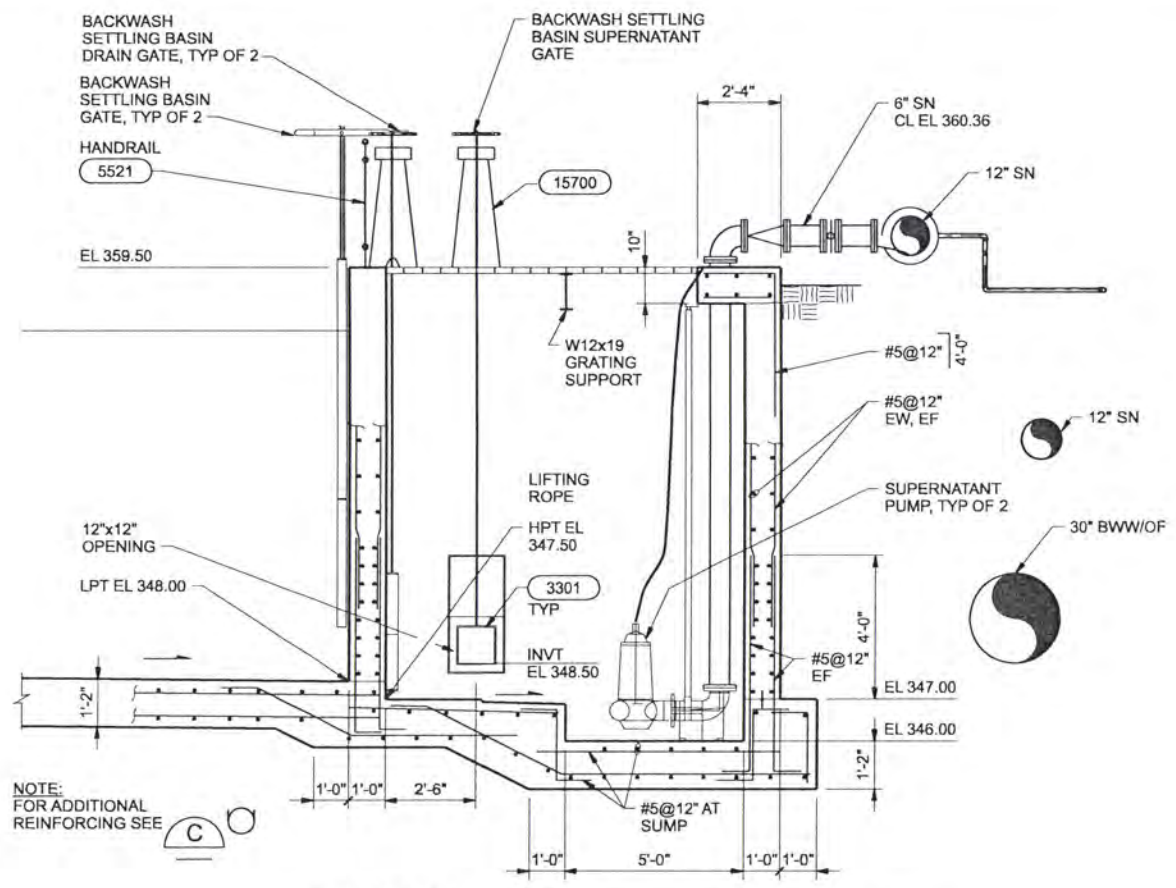


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 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

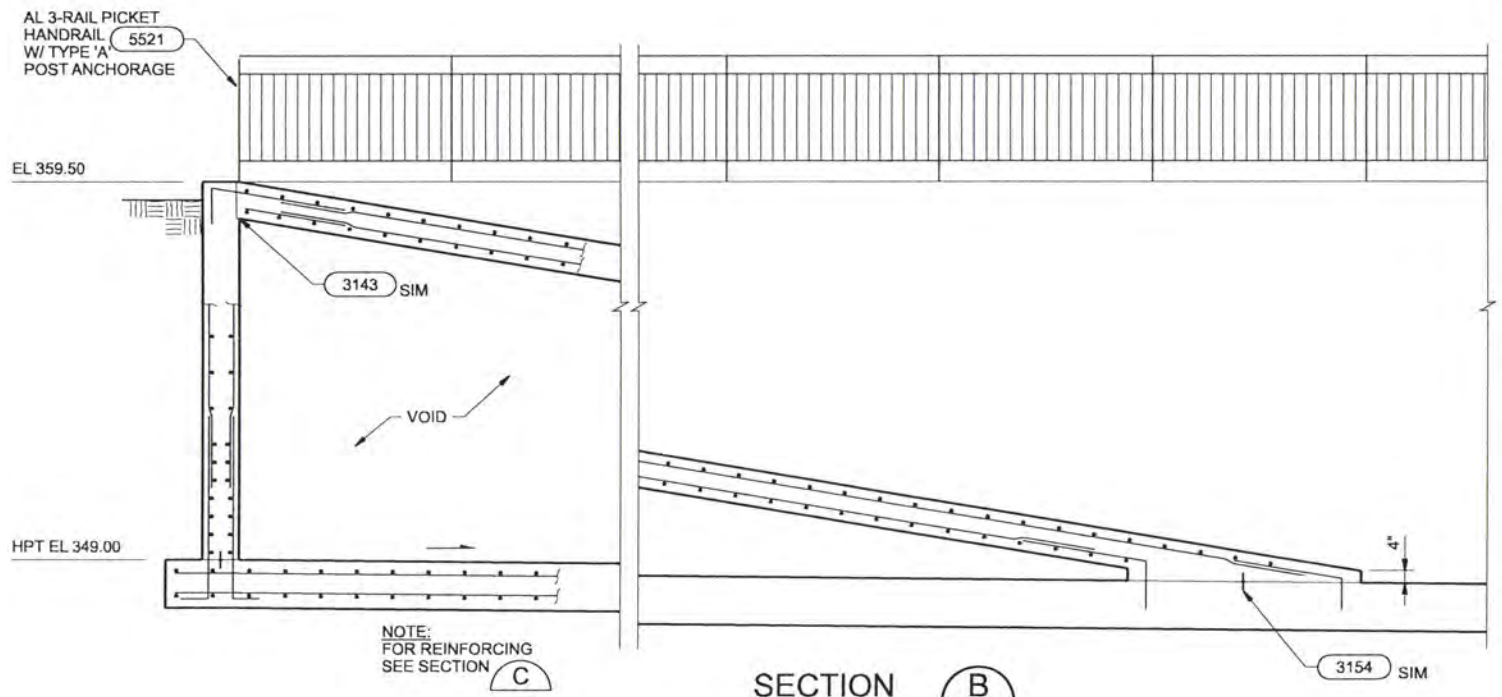
BACKWASH SETTLING BASINS
 STRUCTURAL/MECHANICAL
 PLAN

SHEET	242
DWG	60-SM-141
DATE	APRIL 2004
PROJ	170368

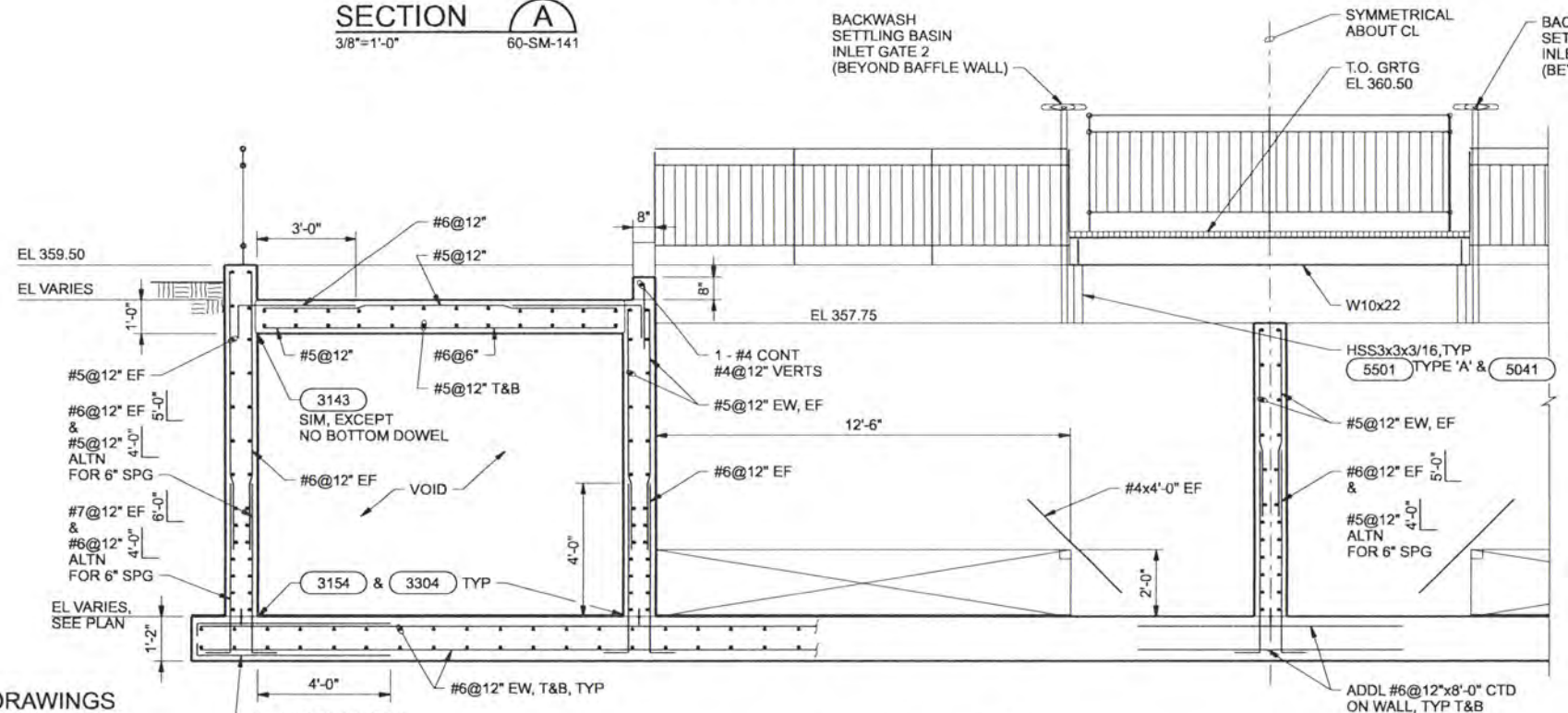
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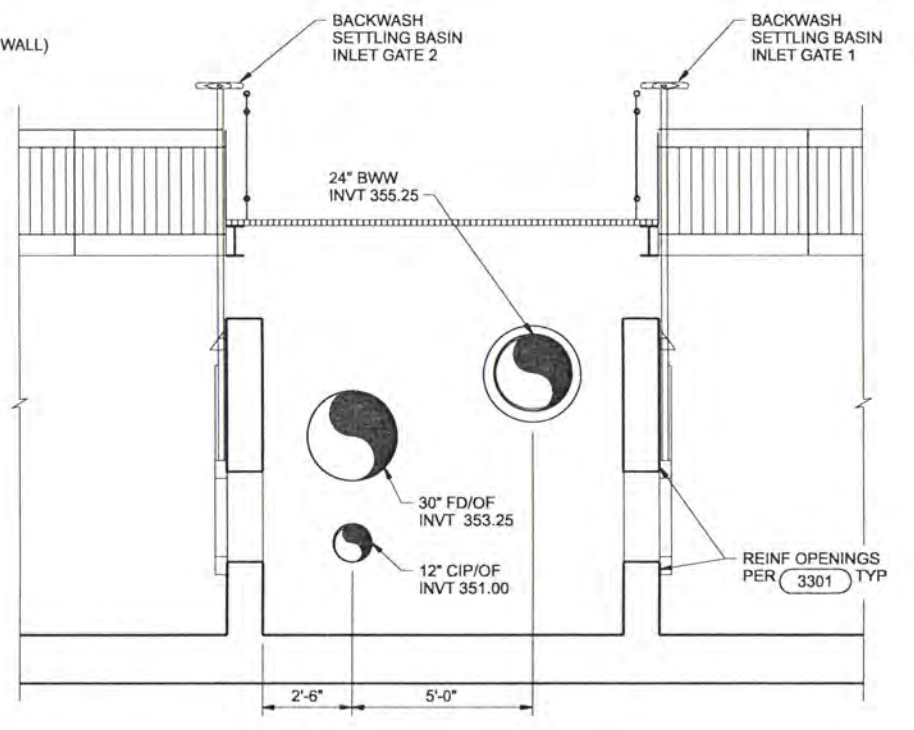
SECTION A
3/8"=1'-0" 60-SM-141



SECTION B
3/8"=1'-0" 60-SM-141



SECTION C
3/8"=1'-0" 60-SM-141 60-SM-202



SECTION D
3/8"=1'-0" 60-SM-141

RECORD DRAWINGS

Revisions Drawn By JMD Date 8/2006
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DRG ENR LOUIE									
DR	KA ANDERSEN								
CHK	CW MASSIE								
APVD	CW MASSIE								
		6/2006	RECORD DRAWING	JMD	RCF				
		NO.	DATE	BY	APVD				

VERIFY SCALE
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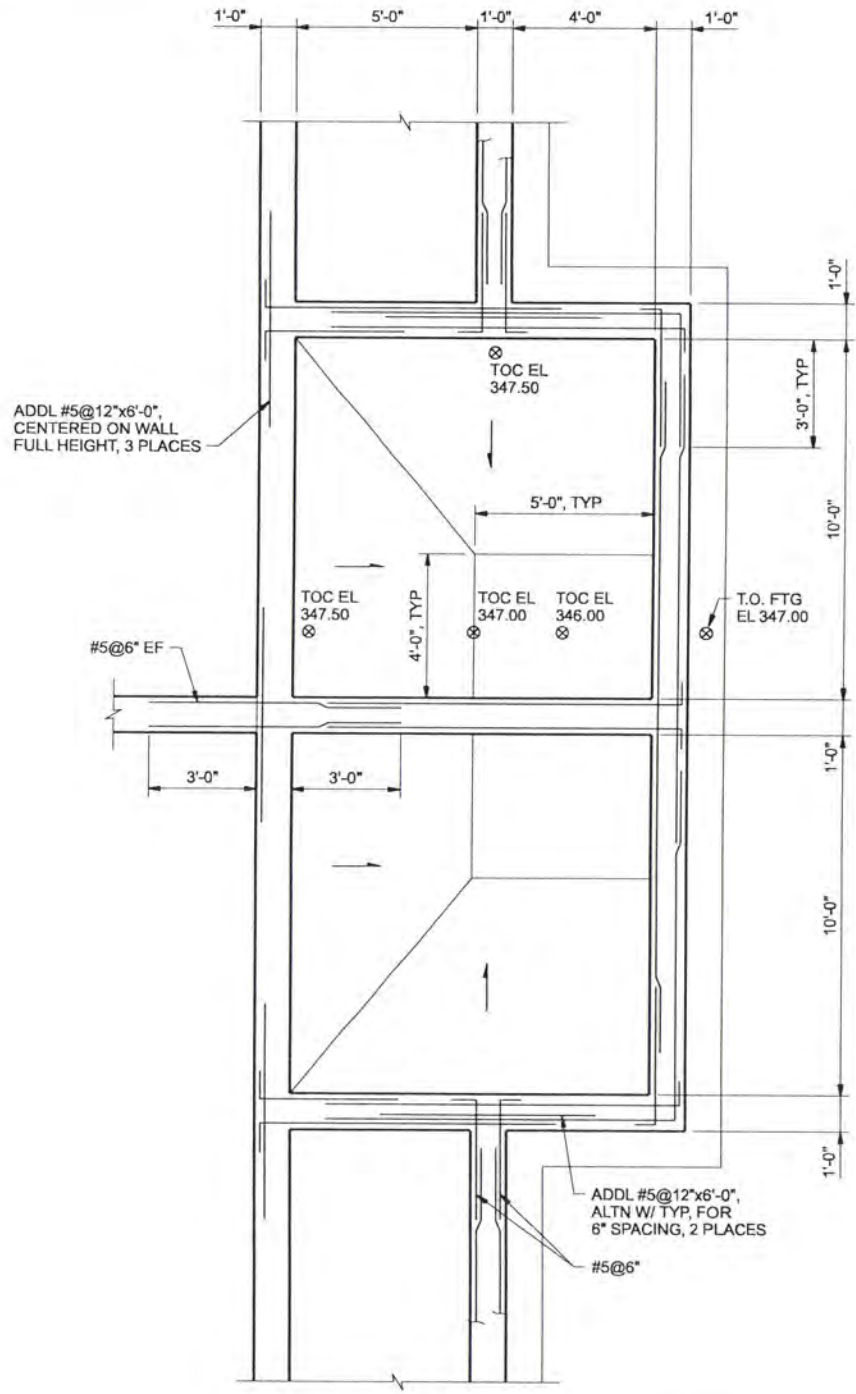


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

BACKWASH SETTling BASINS
 STRUCTURAL/MECHANICAL
 SECTIONS

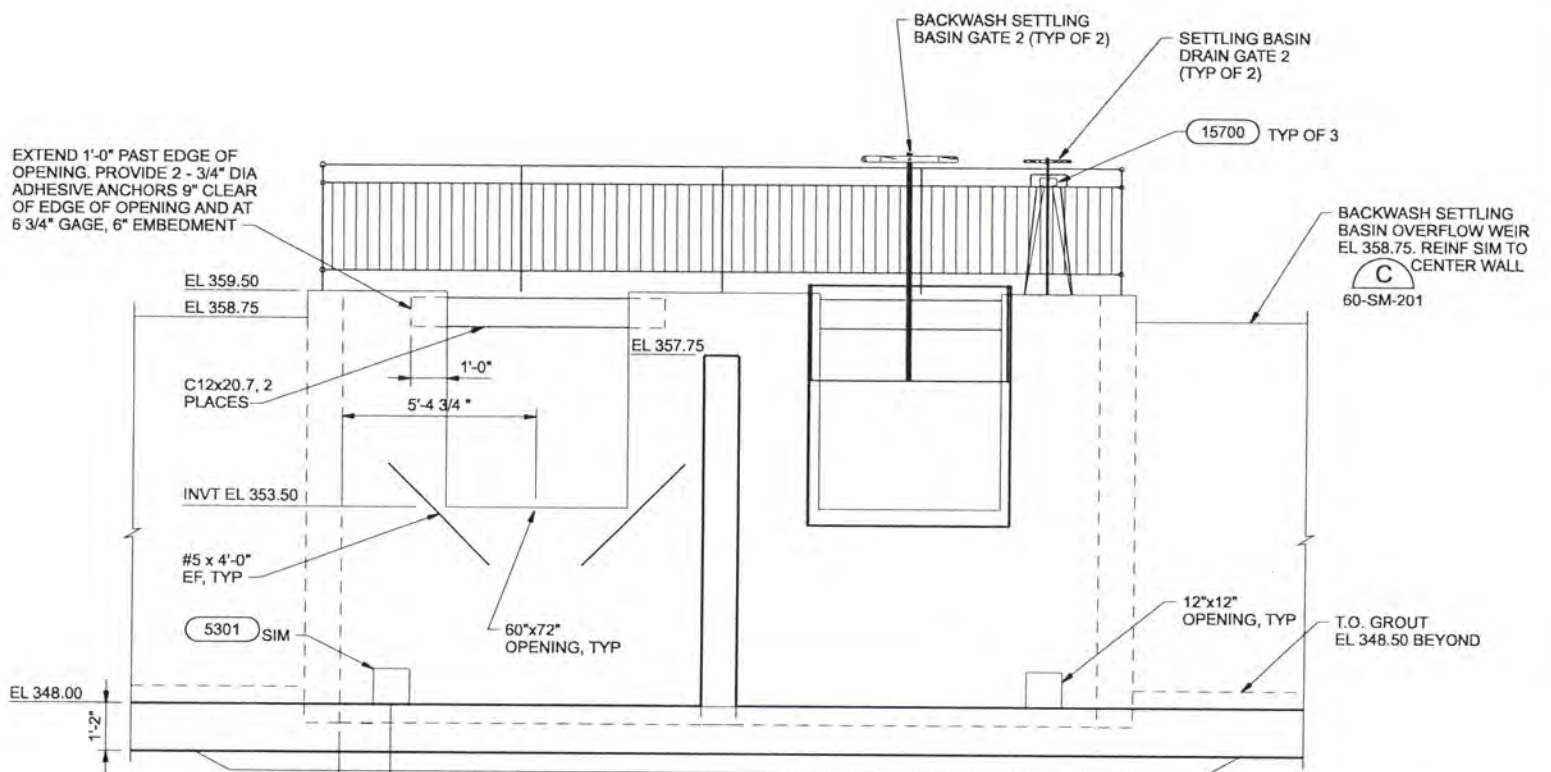
SHEET	243
DWG	60-SM-201
DATE	APRIL 2004
PROJ	170368

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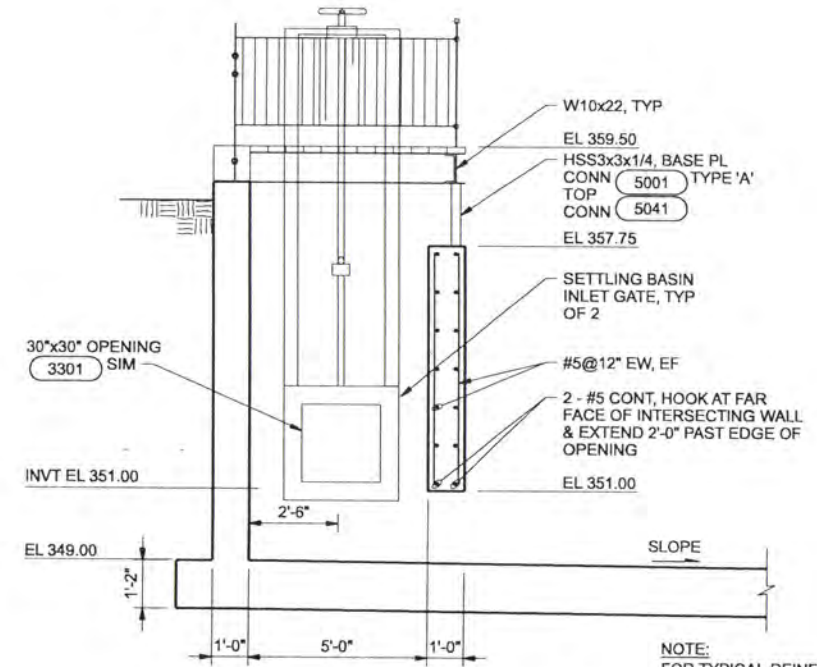


PARTIAL PLAN
3/8"=1'-0"

NOTE:
ALL HORIZONTAL REINFORCEMENT SHALL BE #5@12" ON CENTER UNLESS NOTED OTHERWISE.



SECTION E
3/8"=1'-0" 60-SM-141



SECTION F
3/8"=1'-0" 60-SM-141

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DR KA ANDERSEN																				
CHK CW MASSIE																				
APVD CW MASSIE																				
	NO.	DATE	REVISION																	

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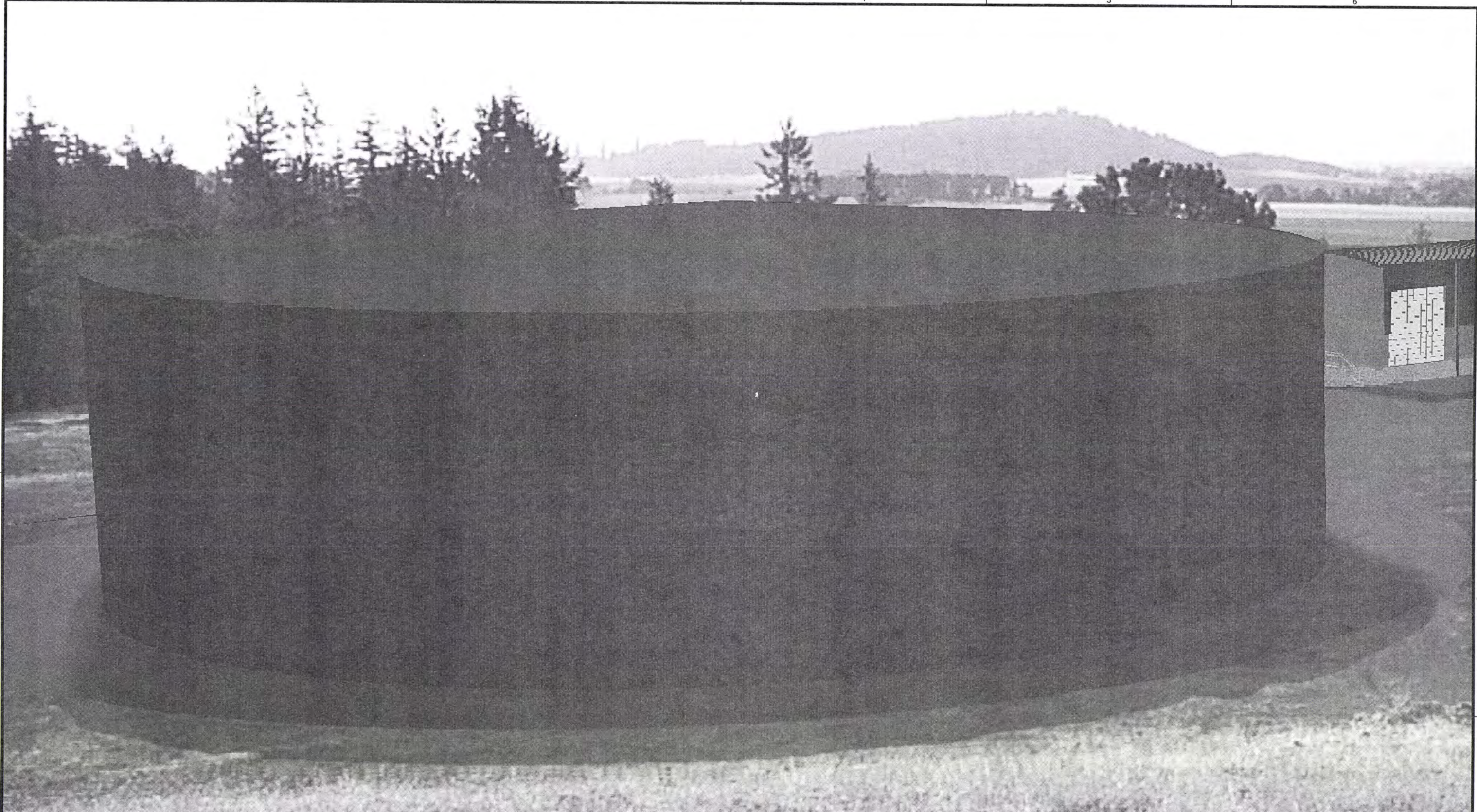
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

BACKWASH SETTLING BASINS
STRUCTURAL/MECHANICAL
PARTIAL PLAN AND SECTIONS

SHEET	244
DWG	60-SM-202
DATE	APRIL 2004
PROJ	170368

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DSGN	JE CAVE						
DR	JA HOSTETLER						
CHK	EB PIETERICK						
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	
			6/2006	RECORD DRAWING	JMD	RCF	

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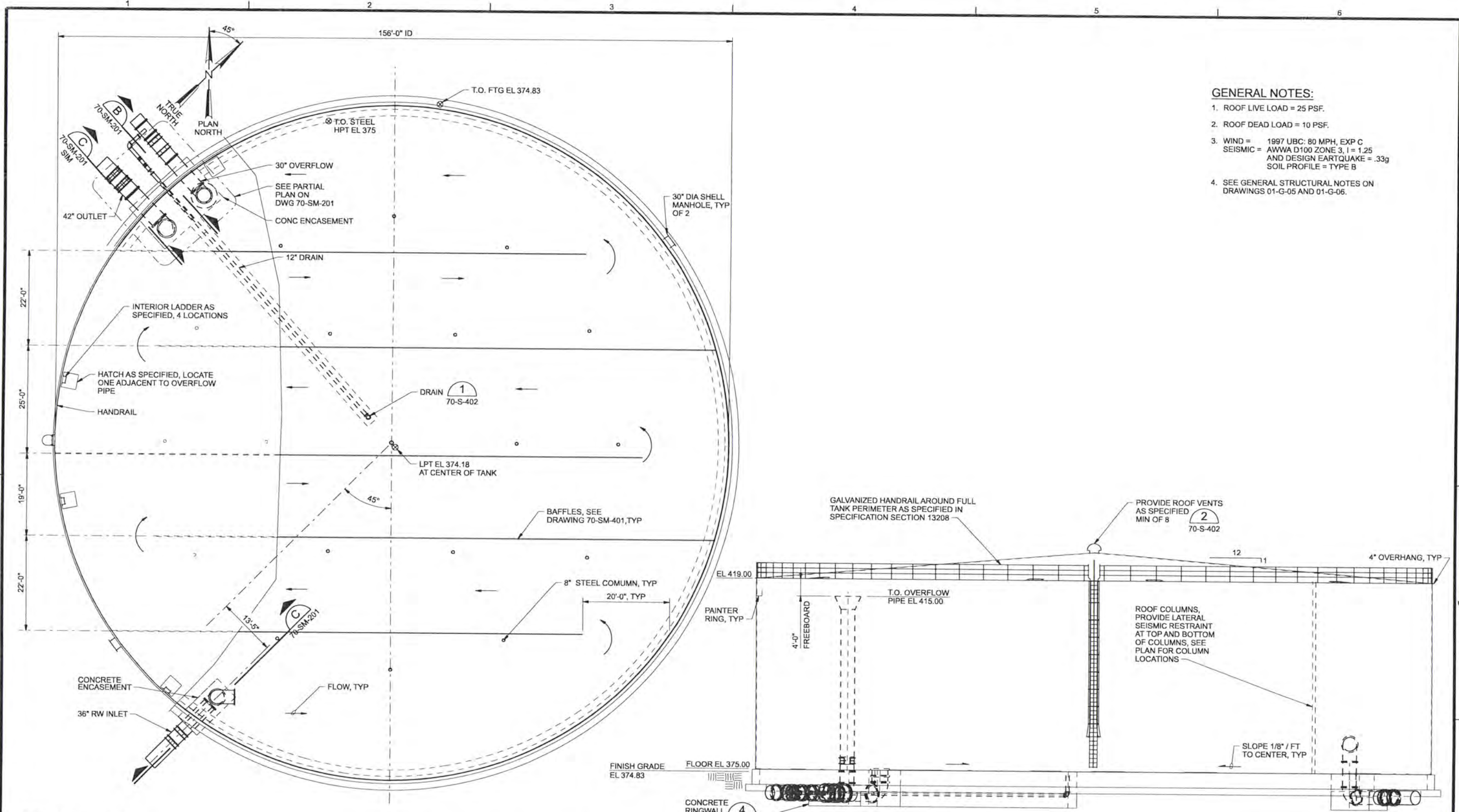
CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

STEEL FINISHED WATER RESERVOIR
 RENDERING - NORTH VIEW

SHEET	245
DWG	70-R-001
DATE	APRIL 2004
PROJ	170368

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- GENERAL NOTES:**
- ROOF LIVE LOAD = 25 PSF.
 - ROOF DEAD LOAD = 10 PSF.
 - WIND = 1997 UBC: 80 MPH, EXP C
SEISMIC = AWWA D100 ZONE 3, I = 1.25
AND DESIGN EARTQUAKE = .33g
SOIL PROFILE = TYPE B
 - SEE GENERAL STRUCTURAL NOTES ON DRAWINGS 01-G-05 AND 01-G-06.

RECORD DRAWINGS

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DRG	TP ENGLESON MJ MERKLEIN									
DR	KJ DAVIS									
CHK	SM FREY	6/2006	RECORD DRAWING	JMD	RCF					
APVD	CW MASSIE				BY	APVD				

FOUNDATION / PARTIAL ROOFPLAN
 3/32"=1'-0"



ELEVATION
 3/32"=1'-0"

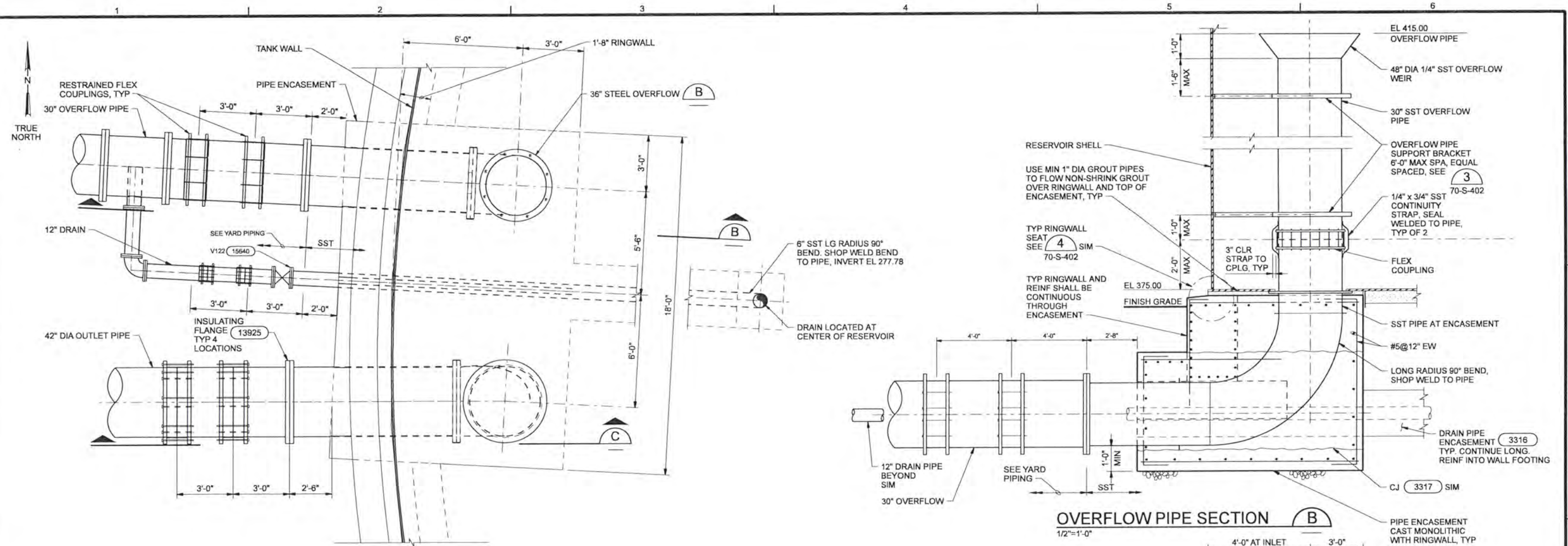
NOTE:
 STEEL FINISHED WATER RESERVOIR
 IS ALTERNATE A-5 OF SCHEDULE A IN THE PROPOSAL.

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

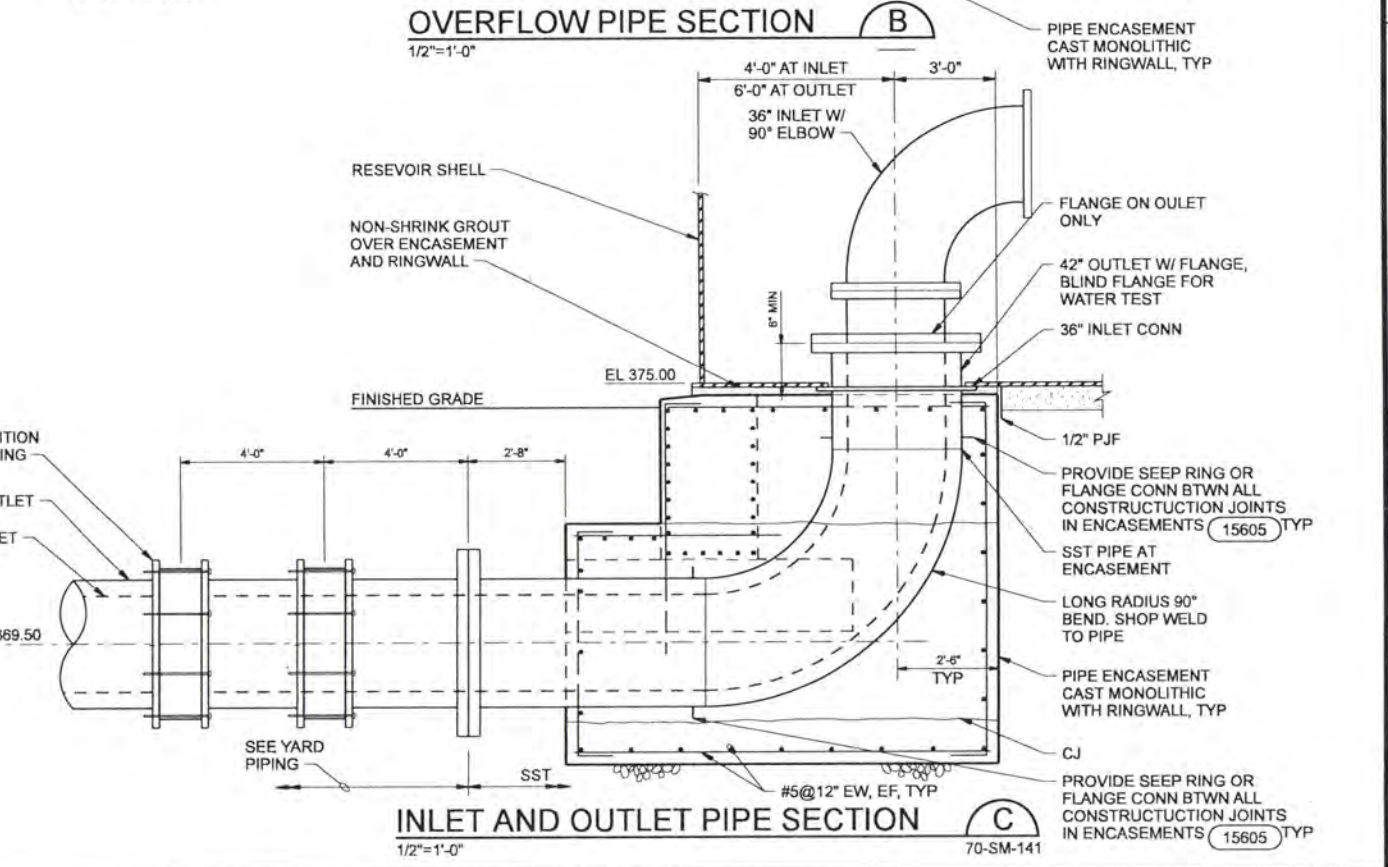
STEEL FINISHED WATER RESERVOIR
 STRUCTURAL / MECHANICAL
 FOUNDATION PLAN
 AND ELEVATION

SHEET	246
DWG	70-SM-141
DATE	APRIL 2004
PROJ	170368

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PARTIAL PLAN
3/8"=1'-0"



OVERFLOW PIPE SECTION B
1/2"=1'-0"

INLET AND OUTLET PIPE SECTION C
1/2"=1'-0"

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DSGNTP ENGELSON MJ MERKLEIN									
DR KL AQUINO									
CHK SM FREY	6/2006	RECORD DRAWING		JMD	RCF				
APVD CW MASSIE	NO.	DATE	REVISION	BY	APVD				

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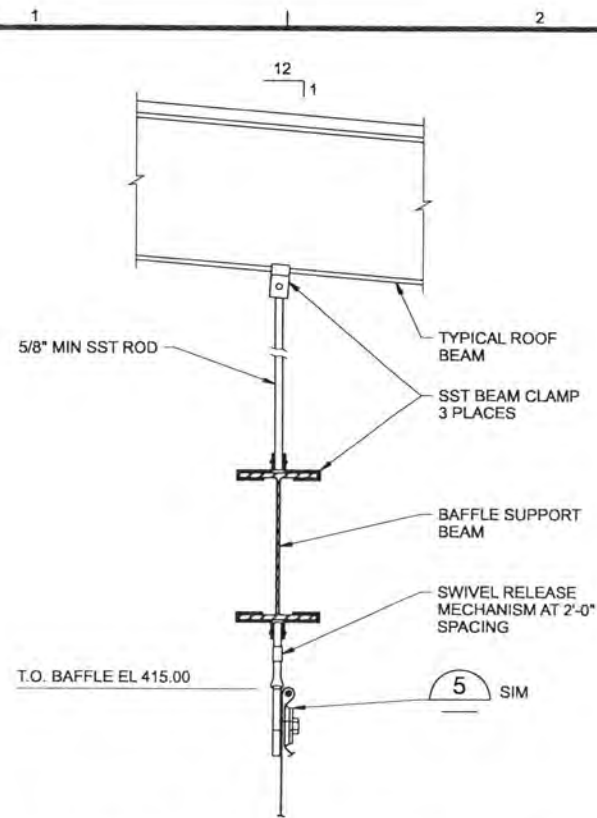


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JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

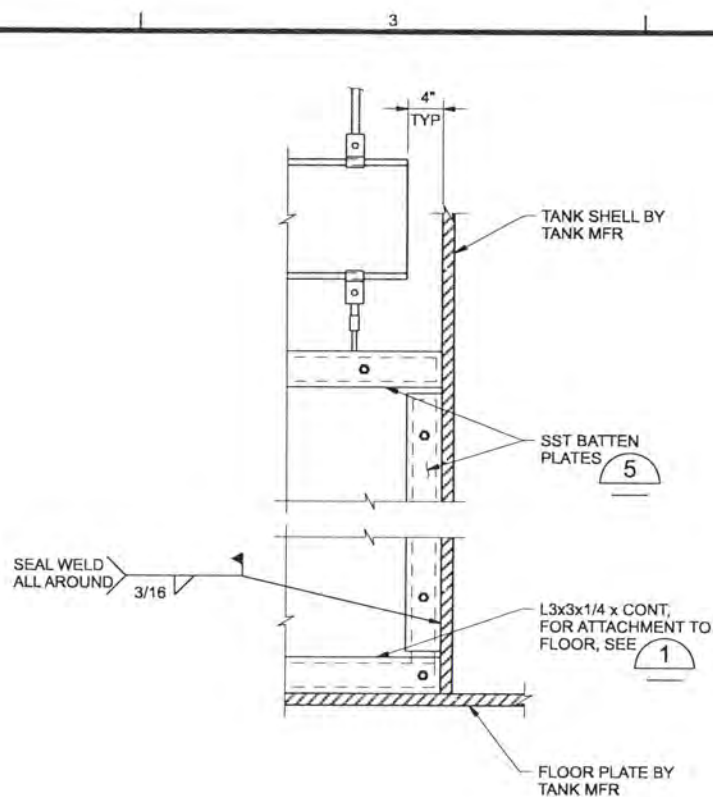
STEEL FINISHED WATER RESERVOIR
STRUCTURAL/MECHANICAL
PARTIAL PLAN AND SECTIONS

SHEET	247
DWG	70-SM-201
DATE	APRIL 2004
PROJ	170368

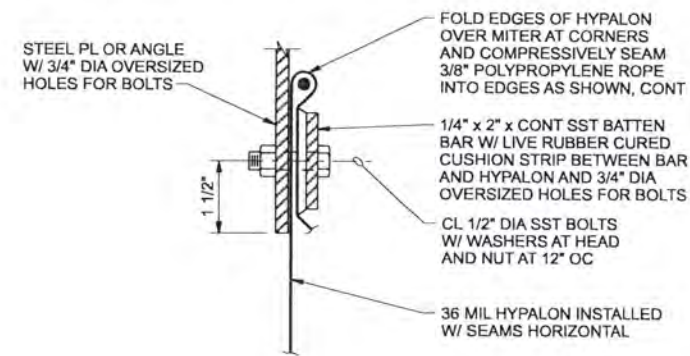
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BAFFLE SUPPORT DETAIL 1
1 1/2"=1'-0" 70-SM-141



BAFFLE SUPPORT DETAIL AT TANK SHELL 3
1 1/2"=1'-0"



BAFFLE ATTACHMENT DETAIL 5
3"=1'-0"

CONTRACTOR DESIGNED BAFFLE SYSTEM NOTES:

1. BAFFLE SUPPORT SYSTEM SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR.
2. LOADS SHALL INCLUDE ALL VERTICAL/GRAVITY BAFFLE COMPONENT LOADS IN ADDITION TO SEISMIC LOADING. LATERAL SLOSHING WATER LOADS SHALL BE DETERMINED IN ACCORDANCE WITH AWWA D100 AND THE GENERAL STRUCTURAL NOTES.
3. MEMBER, ANCHOR, OR PLATES SIZES, AND CONNECTION TYPES SHOWN ARE MINIMUM ACCEPTABLE SIZES. CONTRACTOR SHALL SUBMIT CALCULATIONS AND DRAWINGS FOR MEMBERS AND CONNECTIONS FOR BOTH LATERAL AND VERTICAL LOADS.
4. CONTRACTOR SHALL PROVIDE A SYSTEM THAT DISTRIBUTES THE LATERAL SEISMIC LOAD TO THE TANK SHELL OR PROVIDE A BREAK-AWAY BAFFLE CONNECTION THAT WILL PREVENT STRUCTURAL OVERLOAD OF THE TANK ROOF AND SUPPORTING MEMBERS. THIS SYSTEM SHALL BE DESIGNED TO RESIST ALL LOADS DUE TO WATER DURING MAXIMUM FILL AND OVERFLOW CONDITIONS.
5. THE SYSTEM SHALL PROVIDE A CONTINUOUS SEAL AT THE FLOOR AND WALLS OF THE RESERVOIR. ANY GAPS IN THE BATTEN SYSTEM SHALL BE SEALED WITH A PTABLE GRADE EPOXY SEALANT.

RECORD DRAWINGS

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DR	KJ DAVIS								
CHK	SM FREY	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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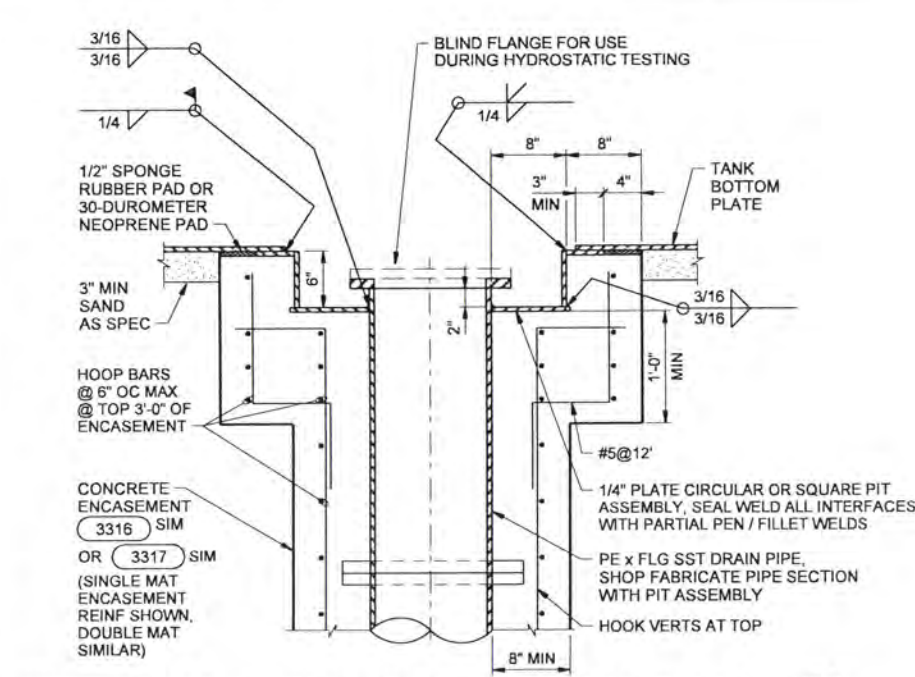
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

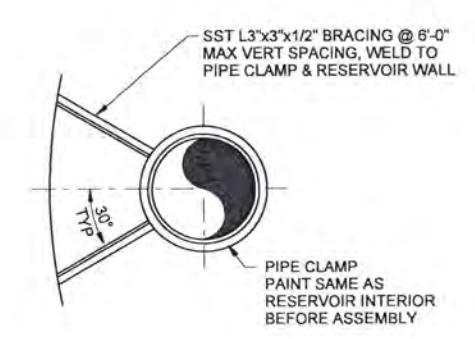
STEEL FINISHED WATER RESERVOIR
 STRUCTURAL/MECHANICAL
 BAFFLE DETAILS

SHEET	248
DWG	70-SM-401
DATE	APRIL 2004
PROJ	170368

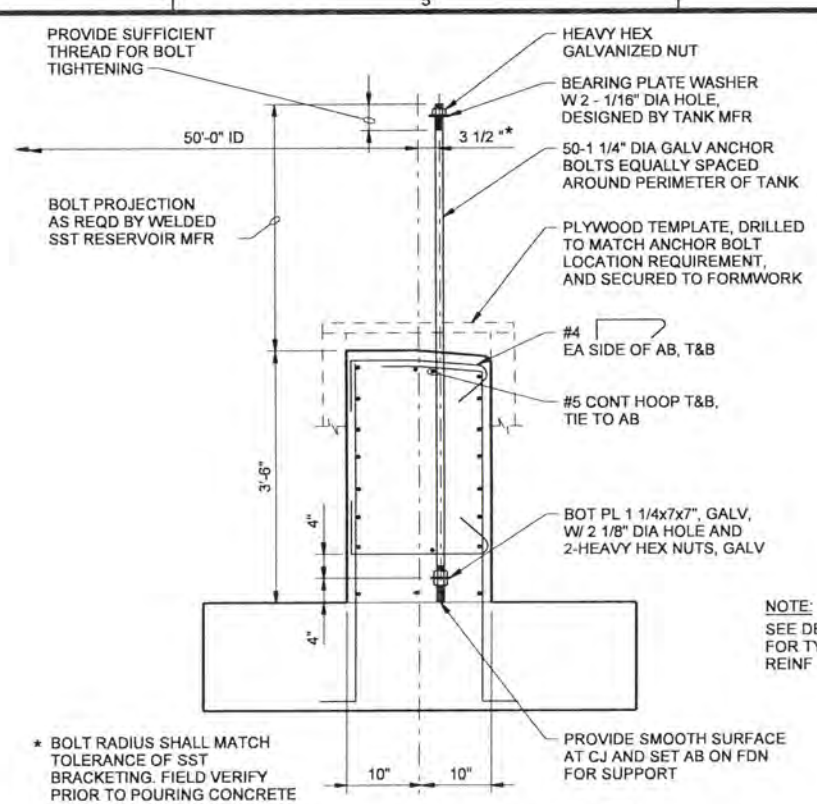
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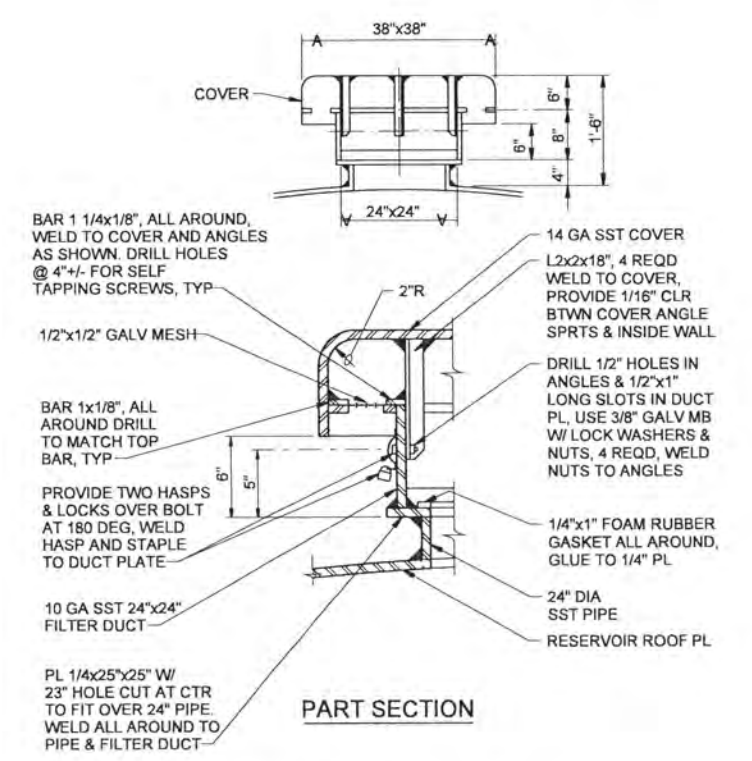
STEEL TANK - RECESSED DRAIN CONNECTION 1
NTS 70-SM-141



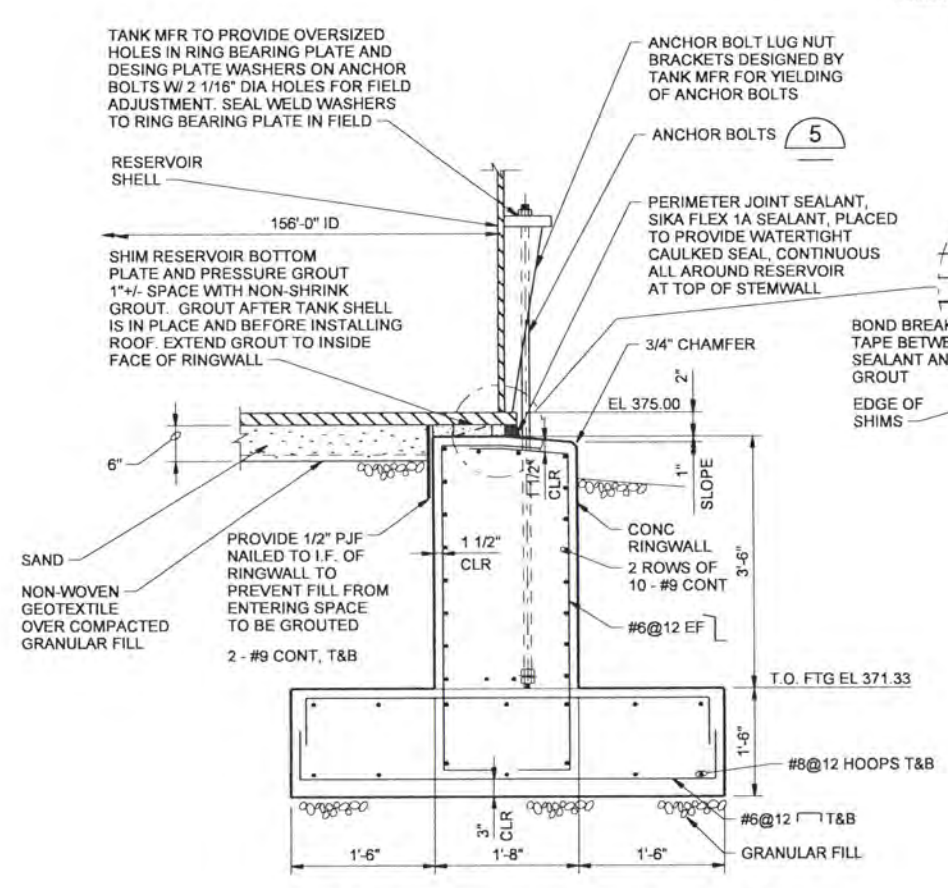
PIPE SUPPORT DETAIL 3
NTS 70-SM-201



ANCHOR BOLT DETAIL 5
3/4"=1'-0"



ROOF VENT 2
NTS 70-SM-141



CONCRETE RINGWALL 4
NTS 70-S-201 70-S-141

- NOTES:**
1. CONTRACTOR SHALL MAINTAIN LEVEL AND TRUE SURFACE FOR TANK TO BEAR ON AT TOP OF FOOTING.
 2. CAST RINGWALL IN 10 SEPARATE POURS WITH 7 DAYS CURE PLUS 7 DAYS DRYING BETWEEN ADJACENT POURS. ALTERNATE FOOTING POURS MAY BE PLACED THE SAME DAY.
 3. STAGGER REINFORCING SPLICES AT RINGWALL CONSTRUCTION JOINTS ONE FULL LAP LENGTH.
 4. SEE DETAIL 5 FOR ADDITIONAL REINFORCING.

RECORD DRAWINGS

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DR	KJ DAVIS				
CHK	SM FREY	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	REVISION	BY

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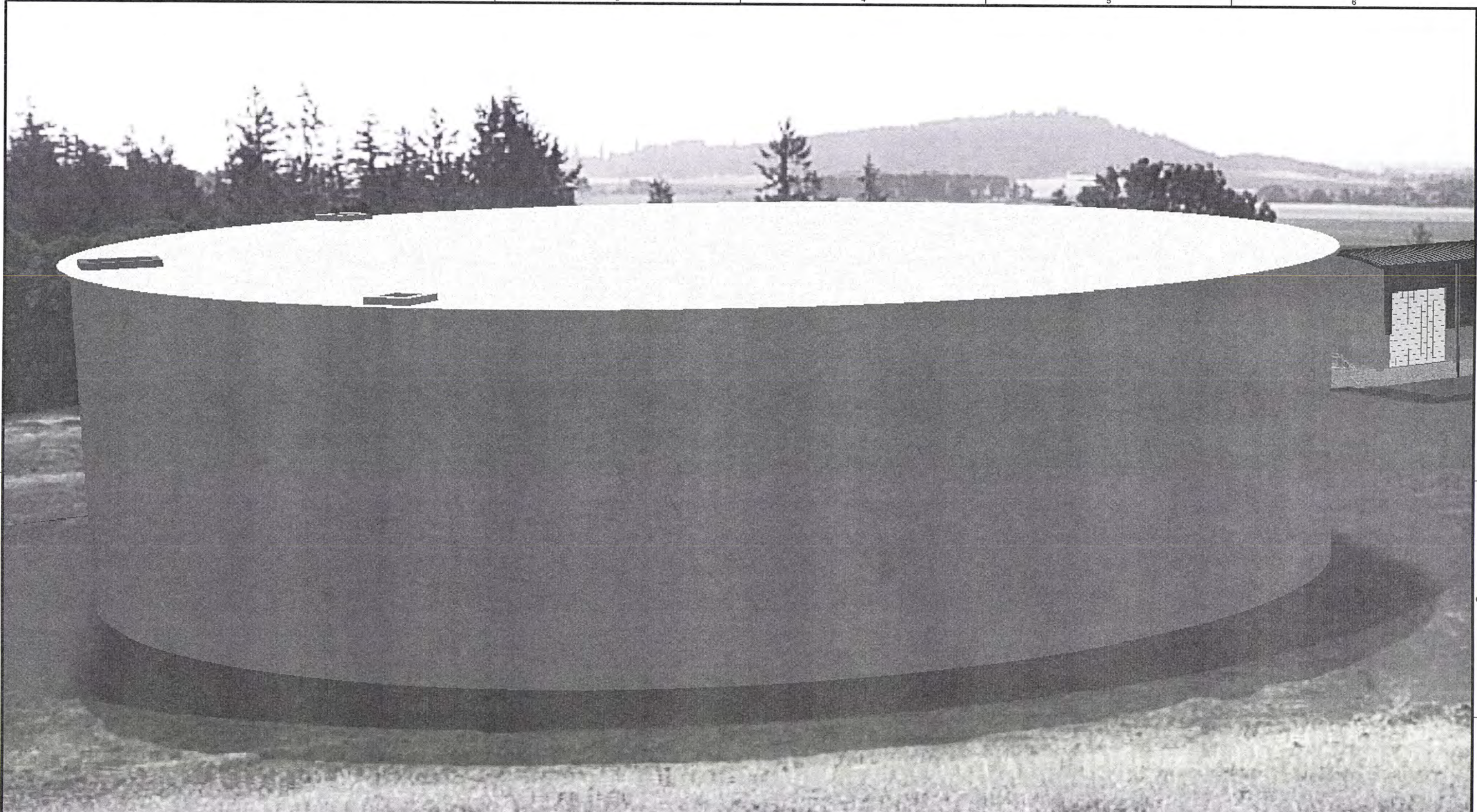
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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

STEEL FINISHED WATER RESERVOIR
 STRUCTURAL/MECHANICAL
 DETAILS

SHEET	249
DWG	70-SM-402
DATE	APRIL 2004
PROJ	170368

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DSGN	JE CAVE						
DR	JA HOSTETLER						
CHK	EB PIETERICK	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	BY	APVD	REVISION	

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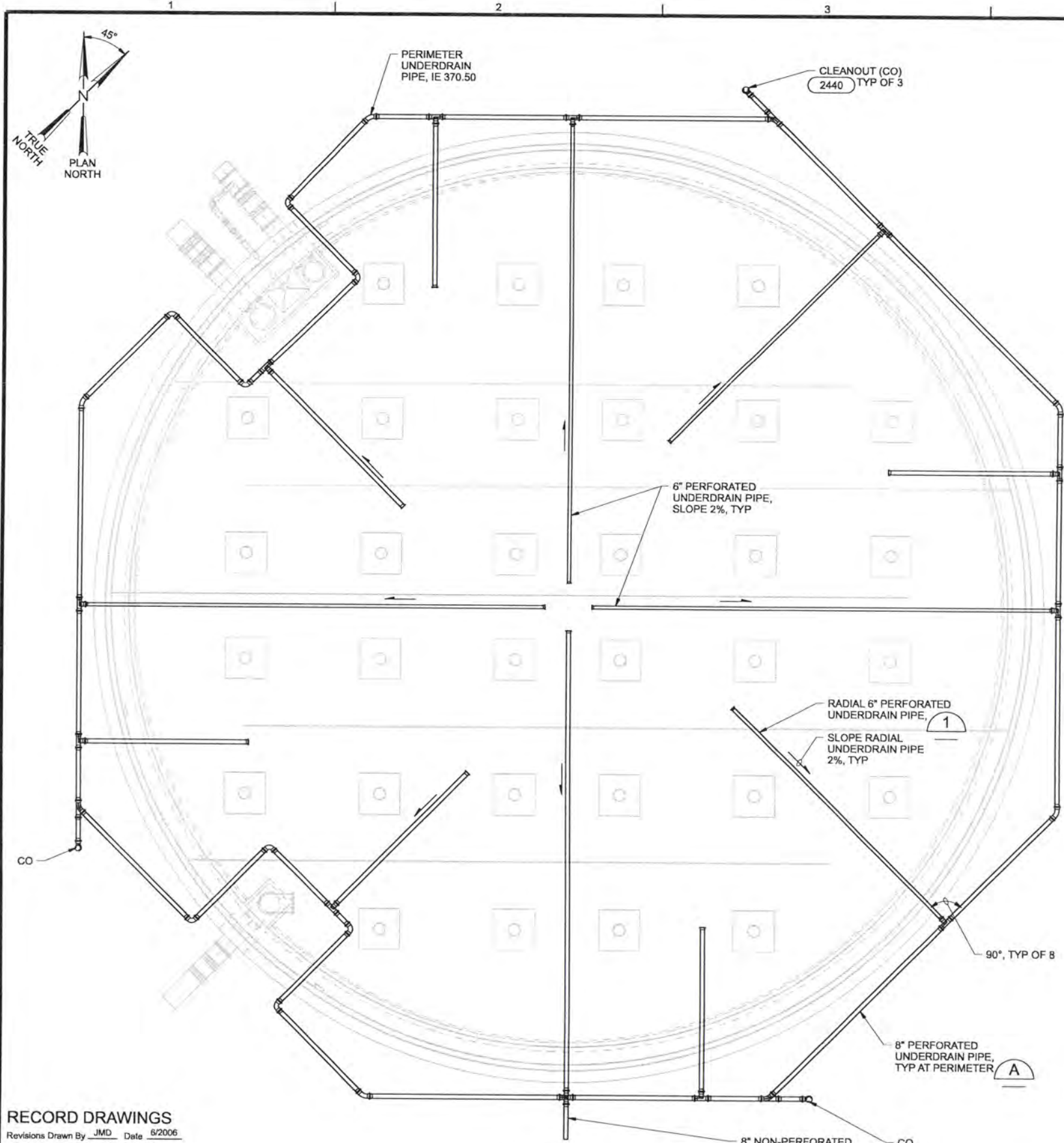
CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

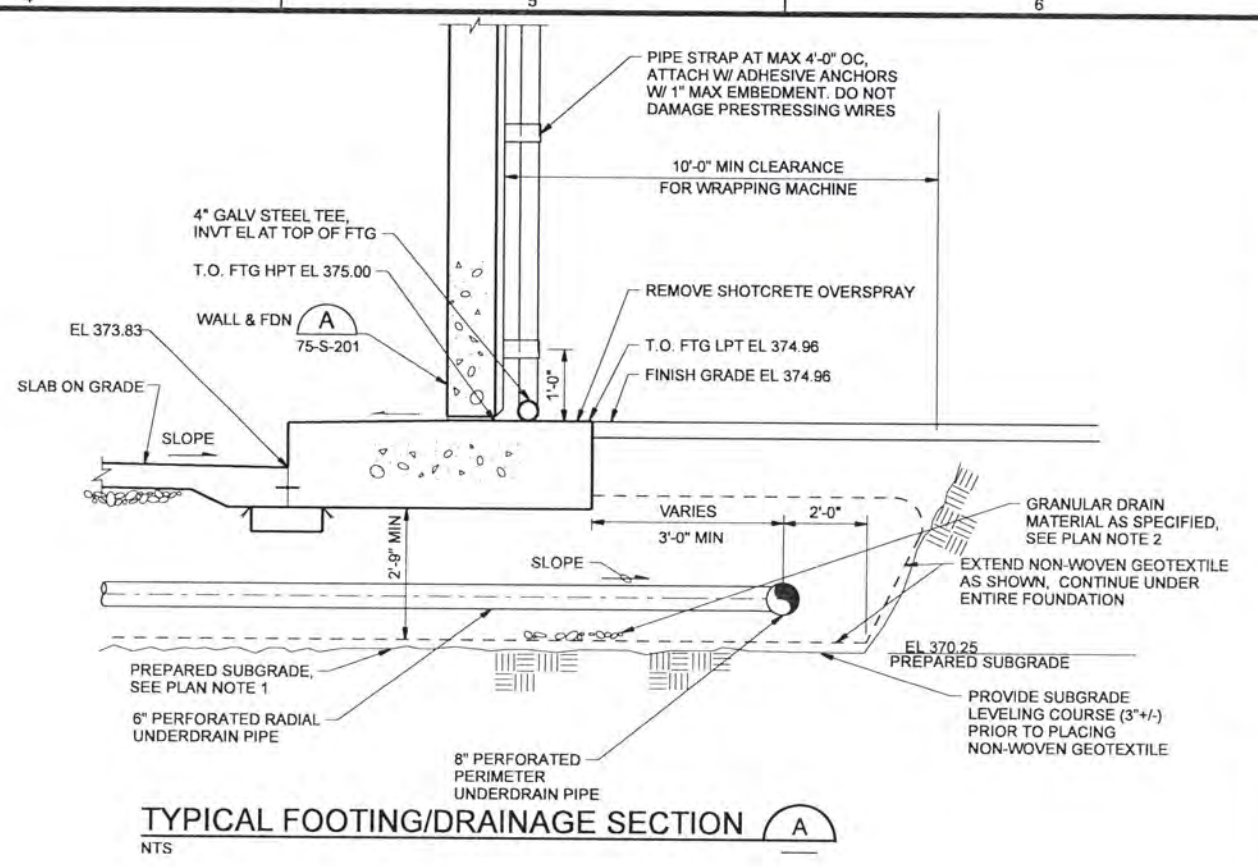
PRESTRESSED CONCRETE FINISHED WATER RESERVOIR
 RENDERING - NORTH VIEW

SHEET	250
DWG	75-R-001
DATE	APRIL 2004
PROJ	170368

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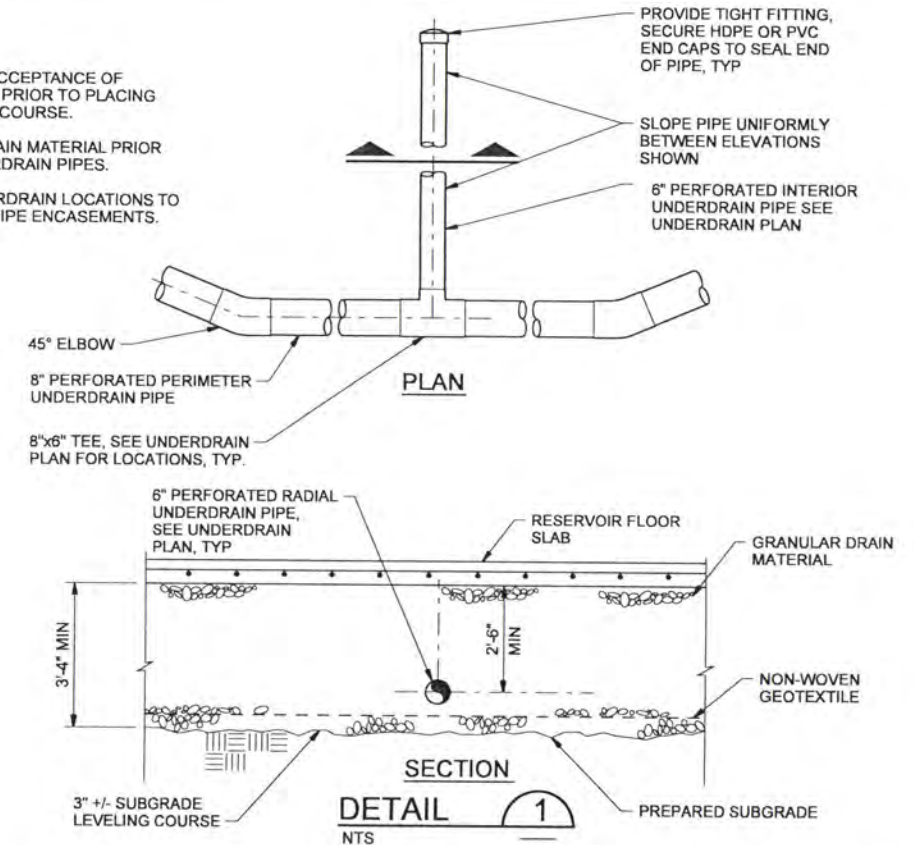
UNDERDRAIN PLAN
3/32"=1'-0"



TYPICAL FOOTING/DRAINAGE SECTION A
NTS

NOTES:

- OBTAIN ENGINEER'S ACCEPTANCE OF THE FINAL SUBGRADE PRIOR TO PLACING SUBGRADE LEVELING COURSE.
- PLACE GRANULAR DRAIN MATERIAL PRIOR TO INSTALLING UNDERDRAIN PIPES.
- ADJUST RADIAL UNDERDRAIN LOCATIONS TO MISS FOOTINGS AND PIPE ENCASEMENTS.



DETAIL 1
NTS

RECORD DRAWINGS

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DSGN	MJ MERKLEIN								
DR	KJ DAVIS								
CHK	KB WHITTIER	6/2006	RECORD DRAWING	JMD	RCF				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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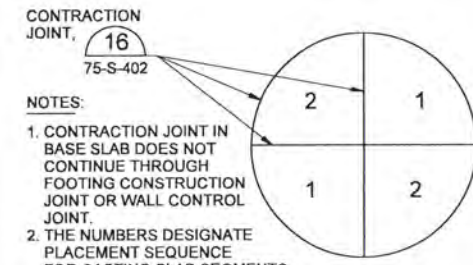
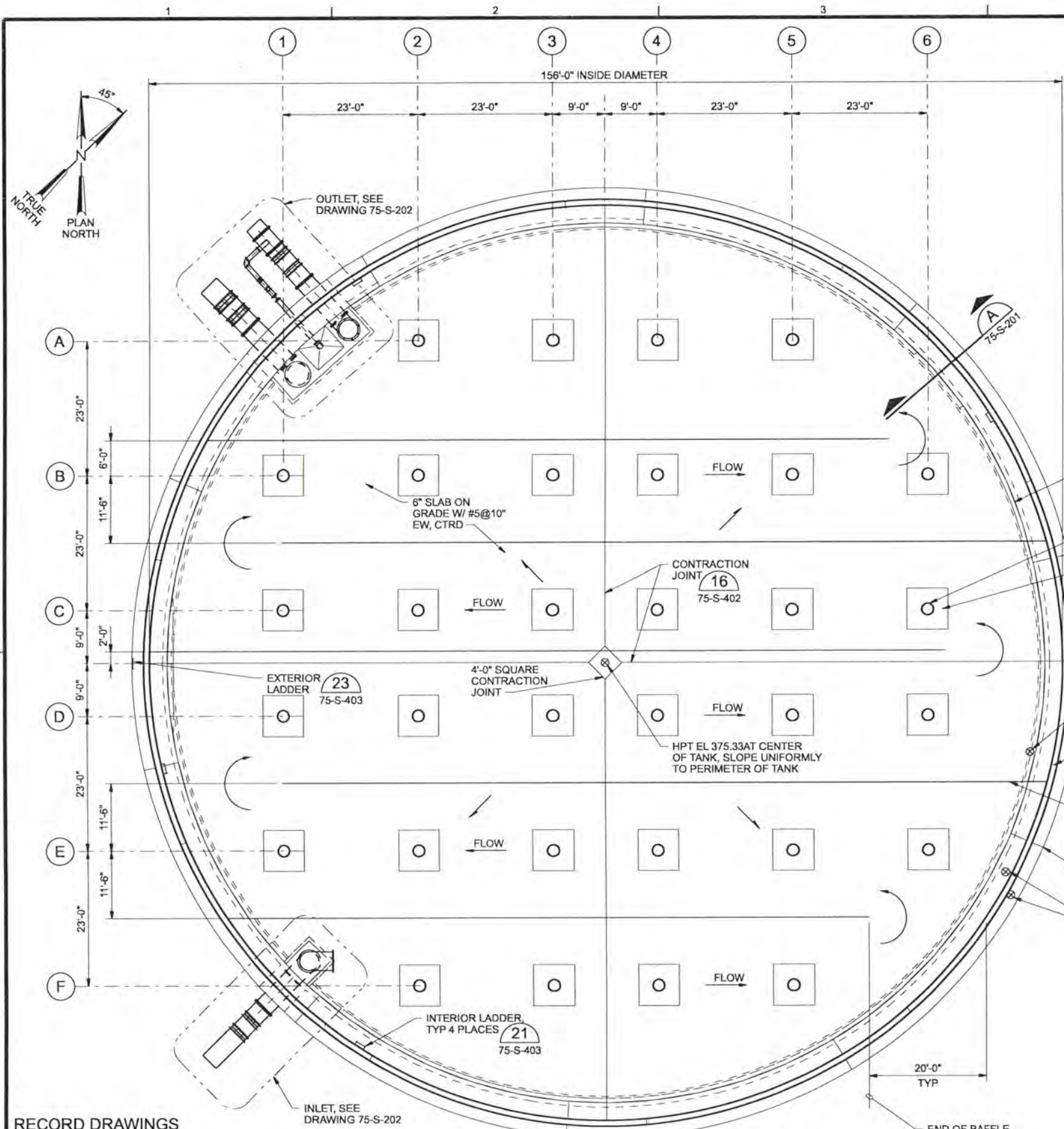


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

PRESTRESSED CONCRETE FINISHED WATER RESERVOIR
STRUCTURAL/MECHANICAL
UNDERDRAIN PLAN
SECTION AND DETAIL

SHEET	251
DWG	75-SM-131
DATE	APRIL 2004
PROJ	170368

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CONTRACTION JOINT, 16
75-S-402

NOTES:

- CONTRACTION JOINT IN BASE SLAB DOES NOT CONTINUE THROUGH FOOTING CONSTRUCTION JOINT OR WALL CONTROL JOINT.
- THE NUMBERS DESIGNATE PLACEMENT SEQUENCE FOR CASTING SLAB SEGMENTS. SLAB SECTIONS MARKED WITH THE SAME NUMBER MAY BE CAST THE SAME DAY.

FLOOR SLAB CONTRACTION JOINTS

GENERAL NOTES:

- ROOF LIVE LOAD = 25 PSF
ROOF DEAD LOAD = 10 PSF
WIND = 1997 UBC: 80 MPH, EXP C
SEISMIC = 95 - 96 AWWA D110 ZONE 3, I = 1.25 AND DESIGN EARTHQUAKE = .33g, SOIL PROFILE = TYPE B
- MINIMUM CONCRETE FIELD STRENGTH AT 28 DAYS:
COREWALL - 5,000 PSI
ALL OTHER CONCRETE - 4,000 PSI
- SEE GENERAL STRUCTURAL NOTES ON DRAWINGS 01-G-005 AND 01-G-006.
- FOR SITE SPECIFIC GEOTECHNICAL INFORMATION REFER TO THE GEOTECH REPORT.
- PRESTRESSED CONCRETE FINISHED WATER RESERVOIR IS PART OF SCHEDULE A-2 IN THE PROPOSAL.

BOTTOM SLAB AND FOOTINGS:

- FOOTINGS AND BOTTOM SLAB SHALL BEAR ON COMPACTED GRANULAR FILL OR GEOTEXTILE AND DRAIN ROCK OF UNDERDRAIN SYSTEM. COMPACT AROUND AND UNDER PIPE ENCASUREMENTS AND UNDER SLAB AS SPECIFIED.
- BACKFILL AROUND PIPE ENCASUREMENTS BELOW THE FOUNDATION UNDERDRAINS SHALL BE COMPACTED GRANULAR FILL.
- DIMENSIONS FOR MATERIALS AT WALL BASE JOINT REQUIRE VERY CLOSE TOLERANCES IN LOCATING CENTERLINE OF WATERSTOP AND EARTHQUAKE CABLES PRIOR TO AND DURING CONCRETE PLACEMENT OF WALL FOOTING.
- CAST WALL FOOTING IN 10 SEPARATE POURS WITH 7 DAYS CURE PLUS 7 DAYS DRYING BETWEEN ADJACENT POURS. THE ALTERNATE FOOTING POURS CAN BE PLACED THE SAME DAY.
- CAST BASE SLAB IN 4 SEPARATE POURS WITH CONTRACTION JOINTS BETWEEN AND WITH 2 DAYS MINIMUM TIME BETWEEN POURS.
- FOR CONCRETE PLACEMENT SEQUENCE AT WATERSTOP & CONTRACTION JOINTS, SEE DETAIL 15 75-S-402
- REFER TO SPECIFICATION 03255, WALL BASE AND TOP JOINTS, FOR SPECIFIED TOLERANCE FOR PLACING 9" x 3/8" PLASTIC WATERSTOP AT BASE OF WALL.

CORE WALL:

- SUPPORT VERTICAL WALL REINFORCING ON HARD PLASTIC OR STAINLESS STEEL PLATE SUPPORTS. VERTICALS ARE NOT TO REST DIRECTLY ON THE BOTTOM RUBBER PADS.
- PRIOR TO CASTING CONCRETE IN WALL, WATER TEST THE VERTICAL BAR DUCT UNITS OR CLOSELY INSPECT THE UNITS FOR CRACKS. SEAL OR REPAIR ALL CRACKS OR DAMAGE PRIOR TO CASTING CONCRETE IN WALL.
- THE BOTTOM 4 INCHES OF CORE WALL IS TO BE POURED WITH GROUT (SEE SPECIFICATIONS). PROVIDE POSITIVE FORM SUPPORTS AT BASE OF WALL TO PREVENT SPREADING OF FORMS, SO THAT MORTAR WILL NOT PENETRATE BELOW TOP OF NEOPRENE PADS.
- THE CONTRACTOR SHALL COMPLETE THE VERTICAL POST-TENSIONING PRIOR TO THE HORIZONTAL PRESTRESSING OF THE WALL. THE ROOF SLAB SECTIONS SHALL NOT BE POURED UNTIL THE GROUT FOR THE POST-TENSIONING BLOCKOUTS HAS BEEN PLACED.
- FORM WORK TOLERANCES SHALL CONFORM TO ACI 347, STANDARD PRACTICE FOR CONCRETE WORK. IN NO CASE SHALL THE FINISHED CONCRETE CORE WALL BE OUT OF ROUND OR OUT OF PLUMB BY MORE THAN 3/8" +/- . FLAT FORM PANELS IF USED SHALL NOT EXCEED 3 FEET IN WIDTH.
- CAST CORE WALL IN 10 WALL SEGMENTS WITH 2 DAY MINIMUM BETWEEN ADJACENT POURS.

MISCELLANEOUS:

- REFER TO SECTION 03300, CONCRETE FOR EXPERIENCE REQUIREMENTS AND SPECIAL FORMING REQUIREMENTS FOR THE CONCRETE CORE WALL CONSTRUCTION.
- PERMANENTLY MARK POST TENSIONING BAR LOCATIONS ON TOP OF INSIDE WALL FOOTING.
- PERMANENTLY MARK GRIDLINES ON TOP OF COLUMN FOOTINGS WITH MIN 10" HIGH LETTERS.

RECORD DRAWINGS

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DR	KJ DAVIS								
CHK	KB WHITTIER	6/2006	RECORD DRAWING	JMD	RCF				
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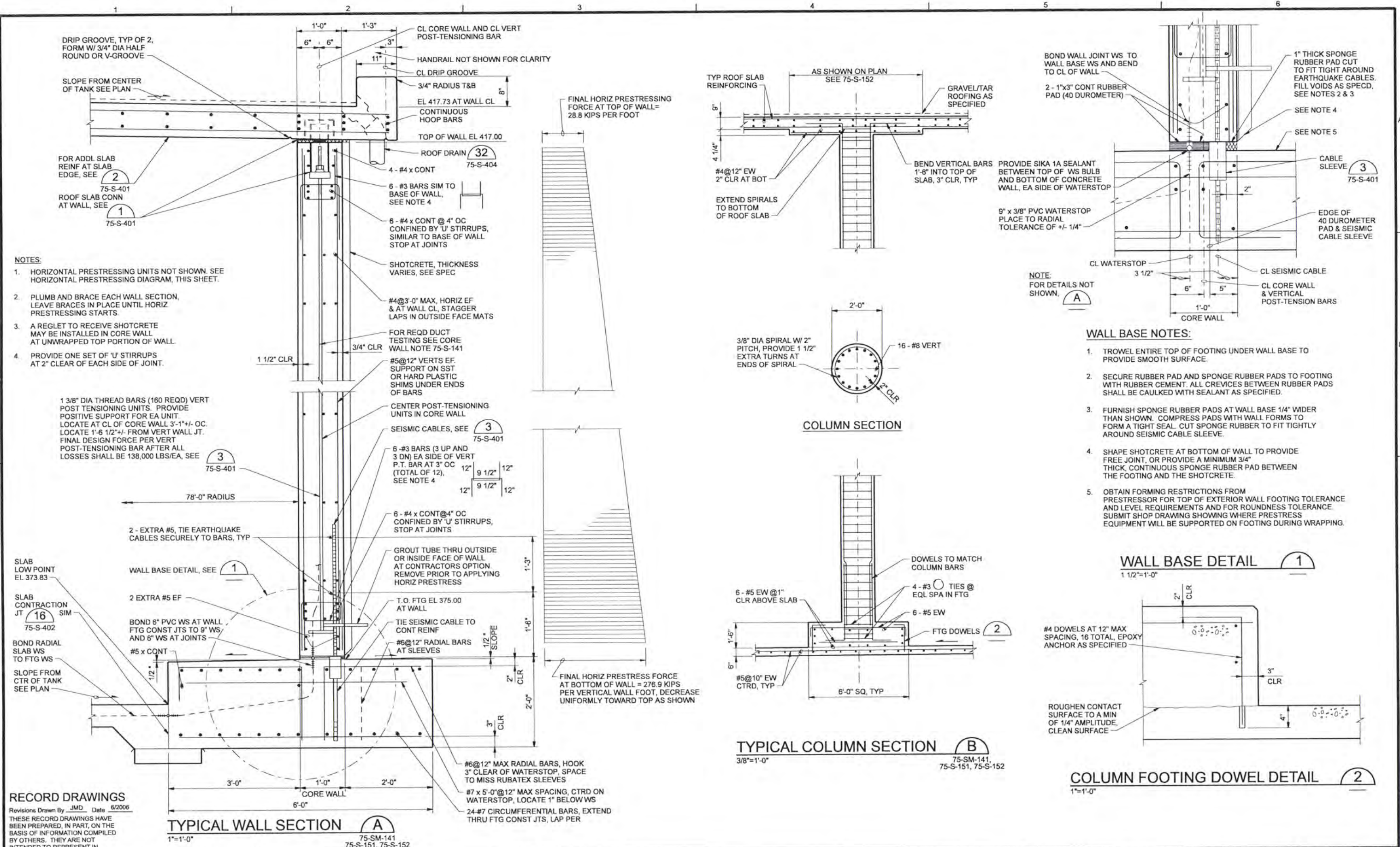


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

PRESTRESSED CONCRETE FINISHED WATER RESERVOIR
STRUCTURAL / MECHANICAL
FOUNDATION PLAN

SHEET	252
DWG	75-SM-141
DATE	APRIL 2004
PROJ	170368

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CHK	KB WHITTIER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

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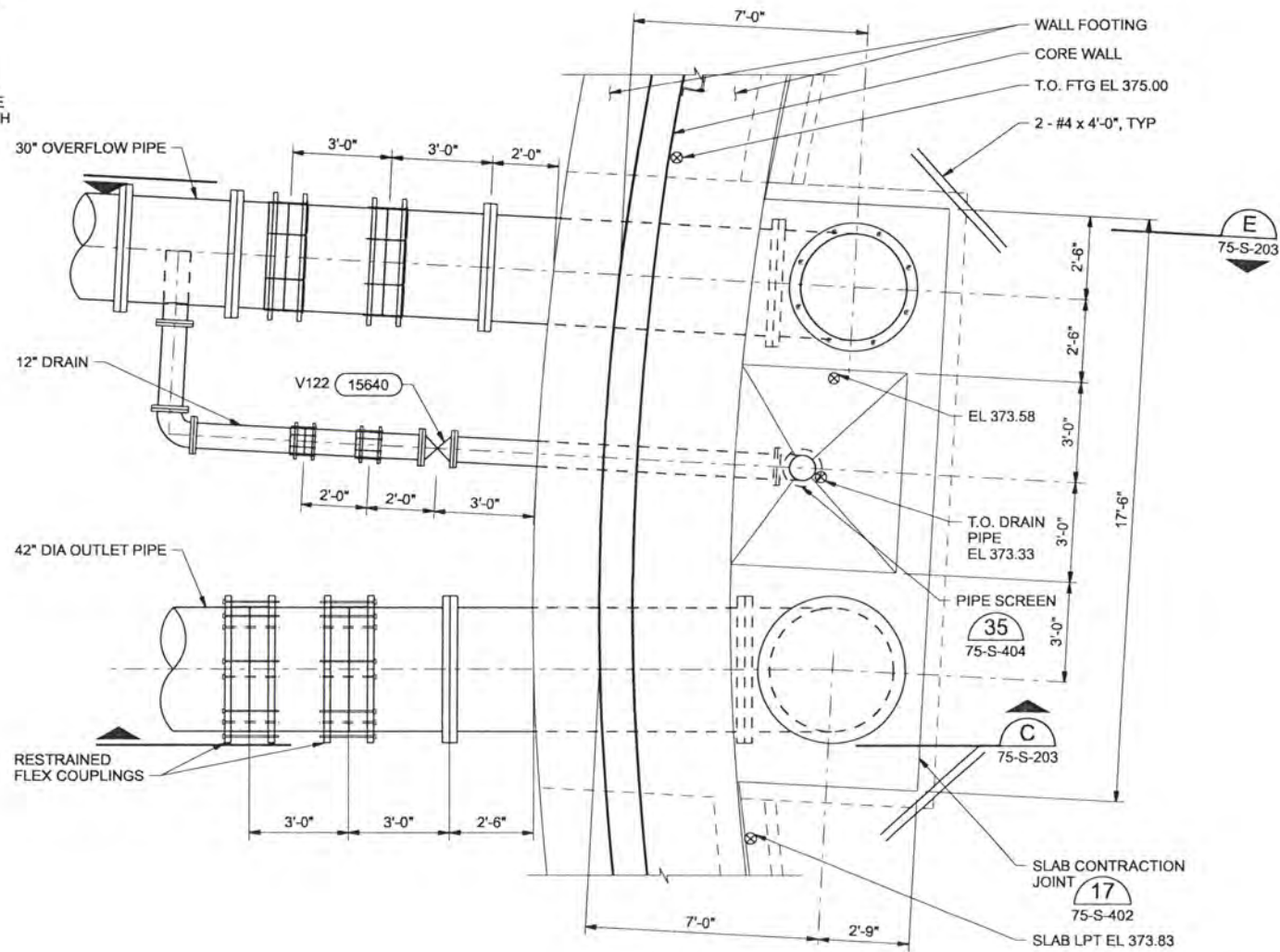
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 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

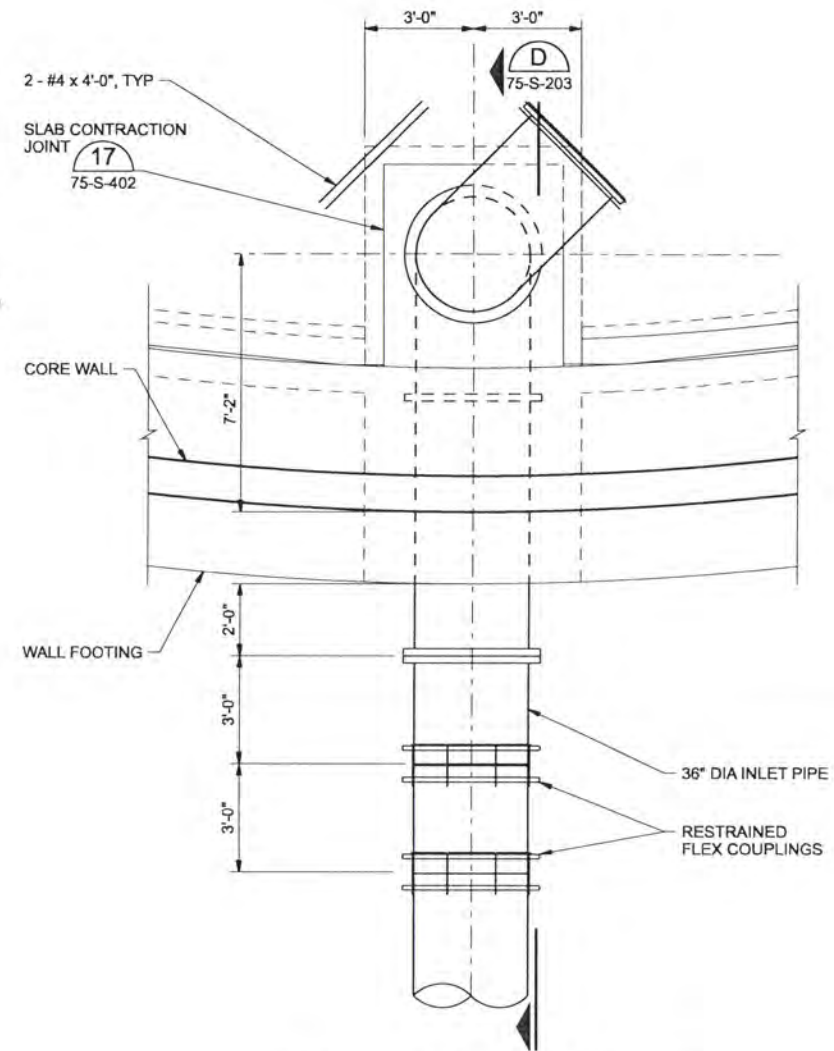
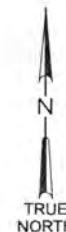
PRESTRESSED CONCRETE FINISHED WATER RESERVOIR
 STRUCTURAL
 SECTIONS AND DETAILS

SHEET	255
DWG	75-S-201
DATE	APRIL 2004
PROJ	170368

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PARTIAL PLAN - OUTLET PIPE
3/8"=1'-0"



PARTIAL PLAN - INLET PIPE
3/8"=1'-0"

NOTES:
USE STAINLESS STEEL BOLTS FOR ALL SUBMERGED AND ENCASED FLANGED AND MECHANICAL JOINT PIPE OR FITTING CONNECTIONS.

COORDINATE PLACEMENT OF PIPING AND REINFORCING STEEL SO THAT NO CONTACT EXISTS BETWEEN THE TWO

RECORD DRAWINGS

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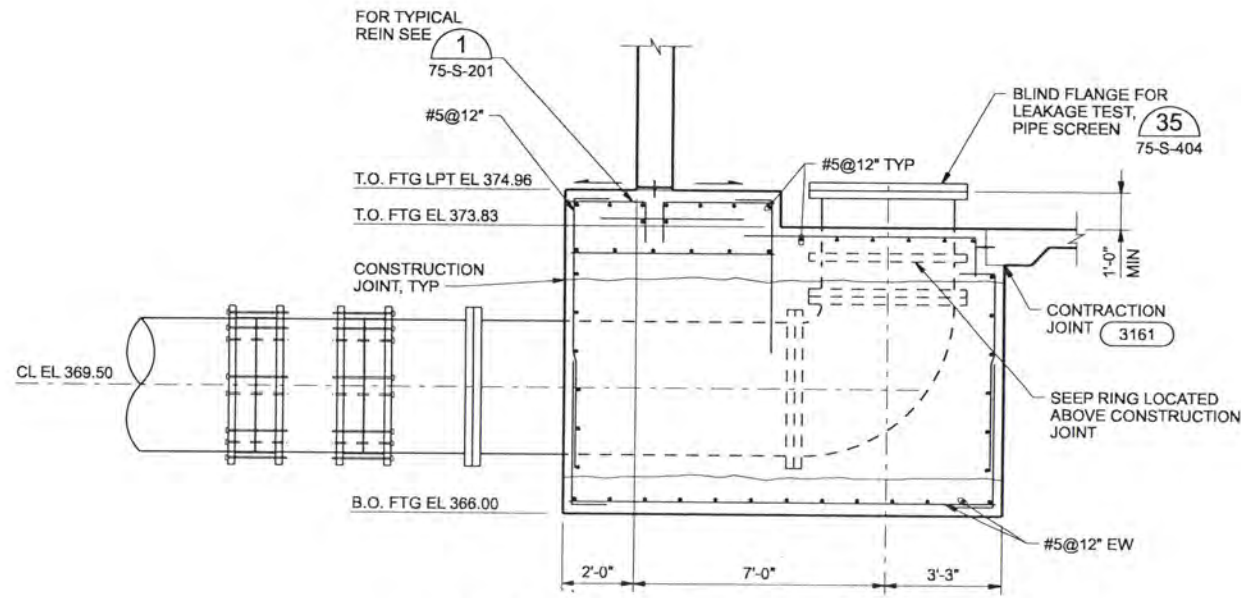
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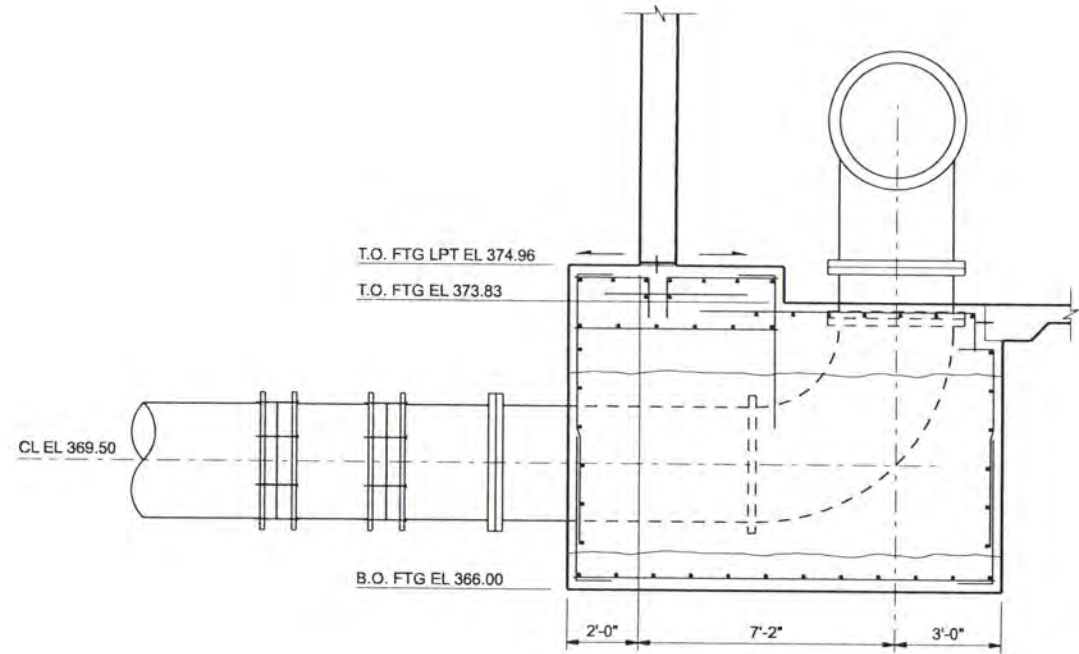
ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

PRESTRESSED CONCRETE FINISHED WATER RESERVOIR
STRUCTURAL
PARTIAL PLANS

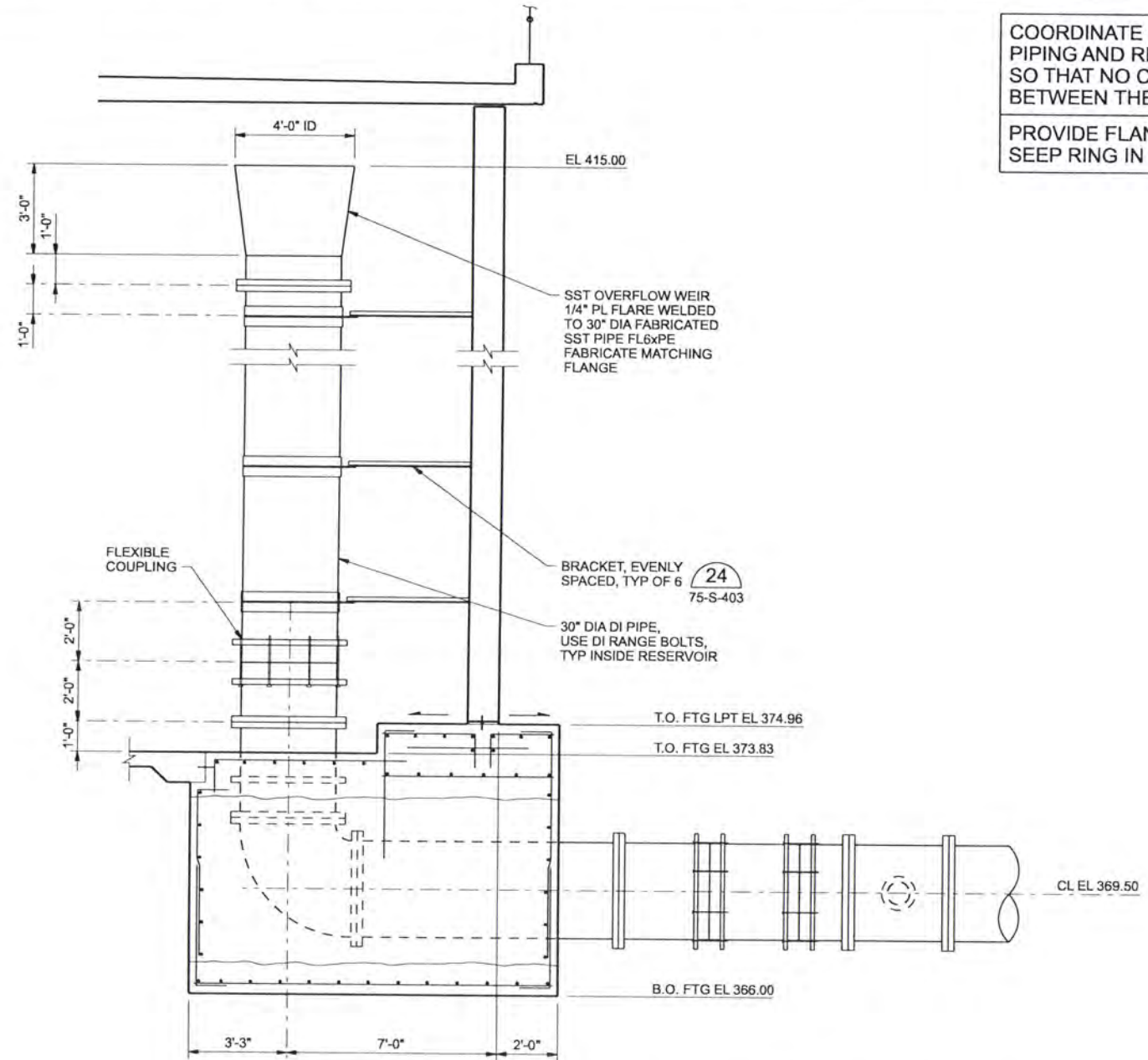
SHEET	256
DWG	75-S-202
DATE	APRIL 2004
PROJ	170368



OUTLET PIPE SECTION C
3/8"=1'-0" 75-S-202



INLET PIPE SECTION D
3/8"=1'-0" 75-S-202



OVERFLOW PIPE SECTION E
3/8"=1'-0" 75-S-202

COORDINATE PLACEMENT OF PIPING AND REINFORCING STEEL SO THAT NO CONTACT EXISTS BETWEEN THE TWO
PROVIDE FLANGE OR SEEP RING IN EACH LIFT

NOTES:
FOR TYPICAL REINFORCING OF ALL PIPE ENCASUREMENTS SEE SECTION C

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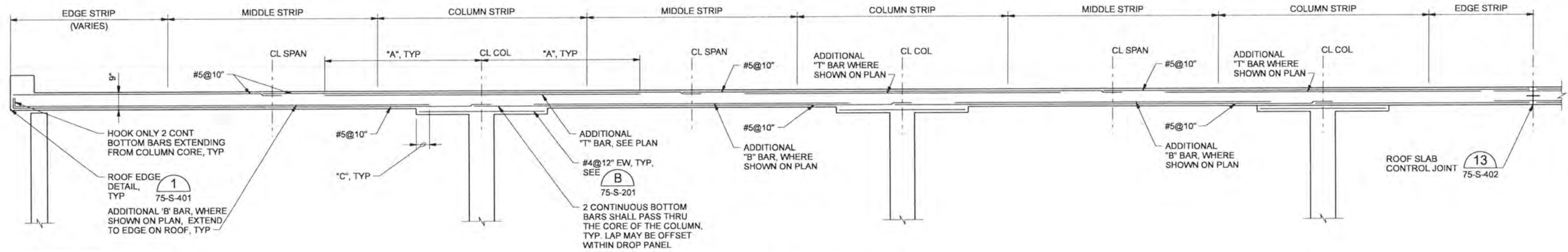
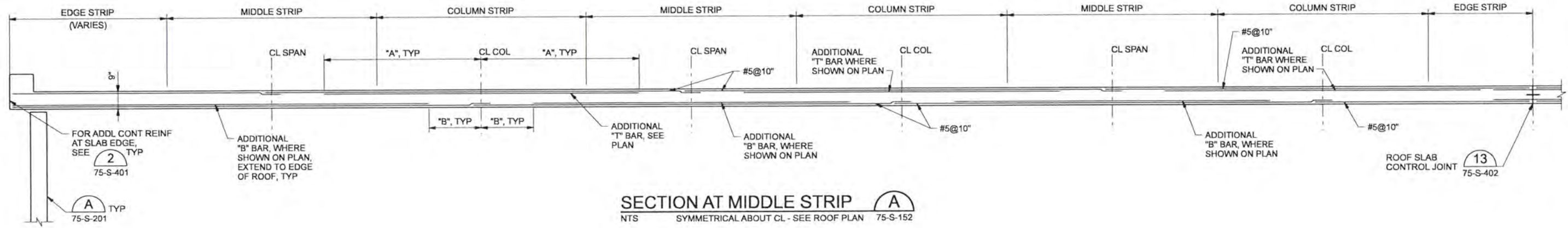
CH2MHILL

ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

PRESTRESSED CONCRETE FINISHED WATER RESERVOIR
STRUCTURAL SECTIONS

SHEET	257
DWG	75-S-203
DATE	APRIL 2004
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REINFORCING LENGTHS AND DIMENSIONS (SEE SECTIONS ABOVE FOR LOCATIONS)	
A	7'-8" (MIN)
B	3'-0" (MAX)
C	2'-0" (MIN)

NOTES FOR ROOF REINFORCING:

- BOTTOM BARS SHALL BE 1 1/2" CLEAR AT BOTTOM OF SLAB, AND TOP BARS SHALL BE 1 1/2" CLEAR AT TOP OF SLAB.
- PROVIDE #5@10" EACH WAY TOP AND #5@10" EACH WAY BOTTOM OF SLAB FOR TYPICAL, CONTINUOUS REINFORCING. SPLICE TOP BARS AT CENTERLINE OF SPAN AND SPLICE BOTTOM BARS AT COLUMN LINES. PROVIDE TYPICAL BARS AT 10"+/- SPACING PER STRIP STARTING 2 1/2" FROM EDGE OF STRIP. PROVIDE A MINIMUM OF 15 BARS PER EACH TYPICAL MIDDLE AND COLUMN STRIPS. TYPICAL REINFORCING IS ORTHOGONAL AND LOCATED PARALLEL TO STRIPS. FOR LAP LENGTHS, SEE GENERAL STRUCTURAL NOTES ON DRAWINGS 01-G-005 AND 01-G-006.
- ADDITIONAL REINFORCING TO THE TYPICAL CONTINUOUS BARS EACH WAY, TOP & BOTTOM, SHALL BE AS INDICATED ON THE ROOF PLAN (T=TOP ADDITIONAL SHORT BARS; B=BOTTOM ADDITIONAL SHORT BARS) AND SHALL BE DISTRIBUTED UNIFORMLY AND SYMMETRICALLY ACROSS COLUMN OR MIDDLE STRIPS, STARTING AT THE CENTER OF THE STRIP. ALTERNATE WITH TYPICAL REINFORCING.
- REINFORCING SHOWN ON ONE QUADRANT ON DRAWING 75-S-152 IS TYPICAL FOR ALL QUADRANTS.
- TRANSVERSE BARS NOT SHOWN.
- ALL BARS IN THE SAME DIRECTION IN THE SAME LAYER (TOP & BOTTOM) SHALL BE IN THE SAME PLANE.
- FOR ADDITIONAL REINFORCING AROUND SIDEWALK DOORS, VENT OPENINGS, ETC. SEE NOTES ON DRAWING 75-S-151 AND 75-S-152 AND 3301
- THE CONTRACTOR SHALL FURNISH AND INSTALL ANCHOR BOLTS IN THE ROOF SLAB AS REQUIRED BY THE PRESTRESSING SUBCONTRACTOR. REMOVE AND REPAIR AT END OF CONSTRUCTION AS APPROVED BY ENGINEER.
- BARS FROM ONE SPAN MAY BE CONTINUOUS AND EXTENDED TO ADJACENT SPANS.
- "BURY" BARS OR "CARRIER" BARS MAY NOT BE USED IN ROOF SLAB.

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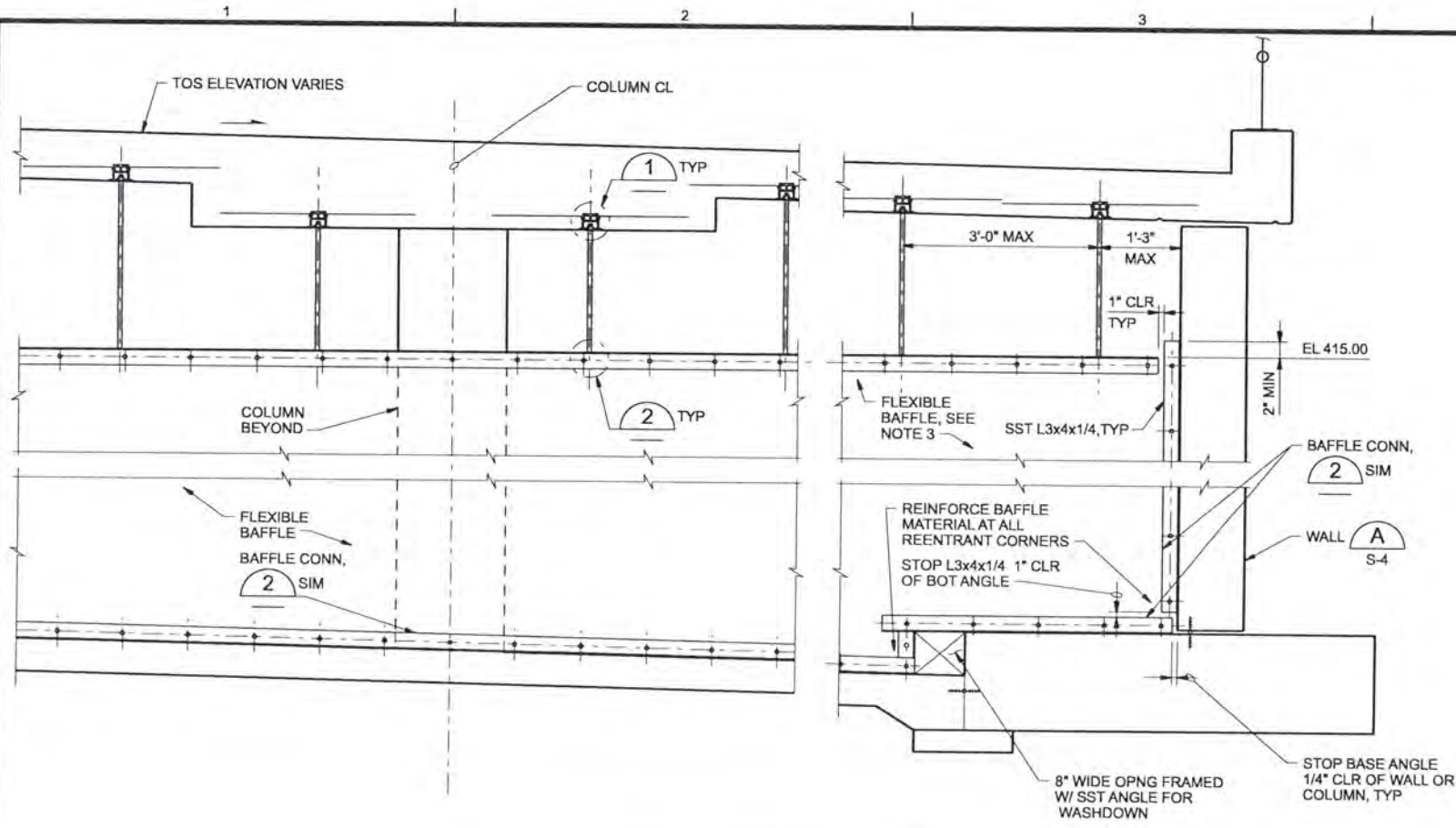


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

PRESTRESSED CONCRETE FINISHED WATER RESERVOIR
STRUCTURAL
 ROOF SECTIONS

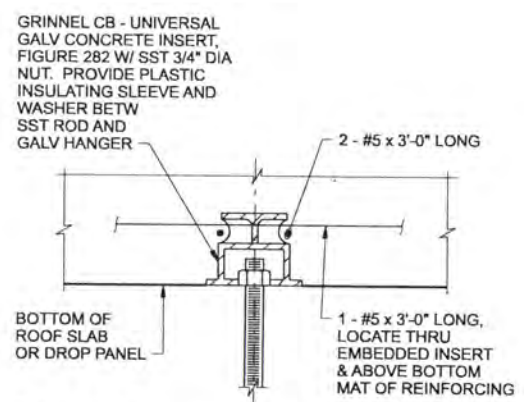
SHEET	258
DWG	75-S-204
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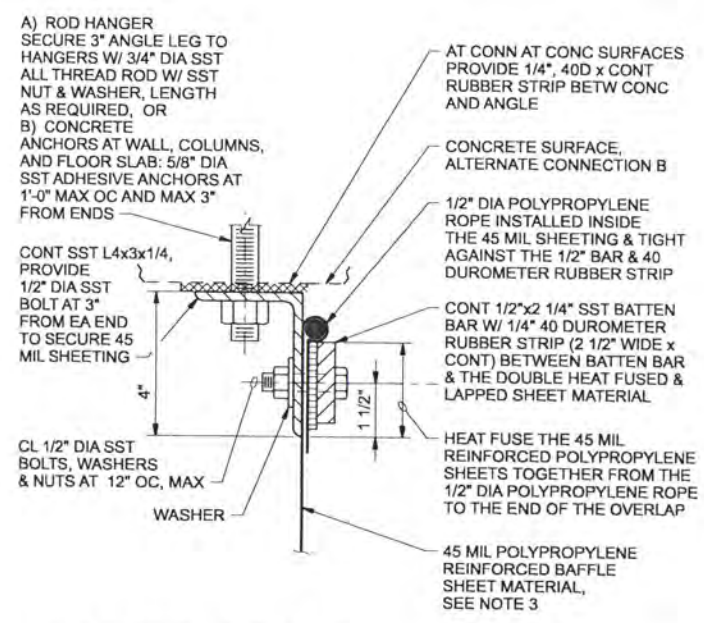


BAFFLE SECTION A
3/4"=1'-0" 75-S-141

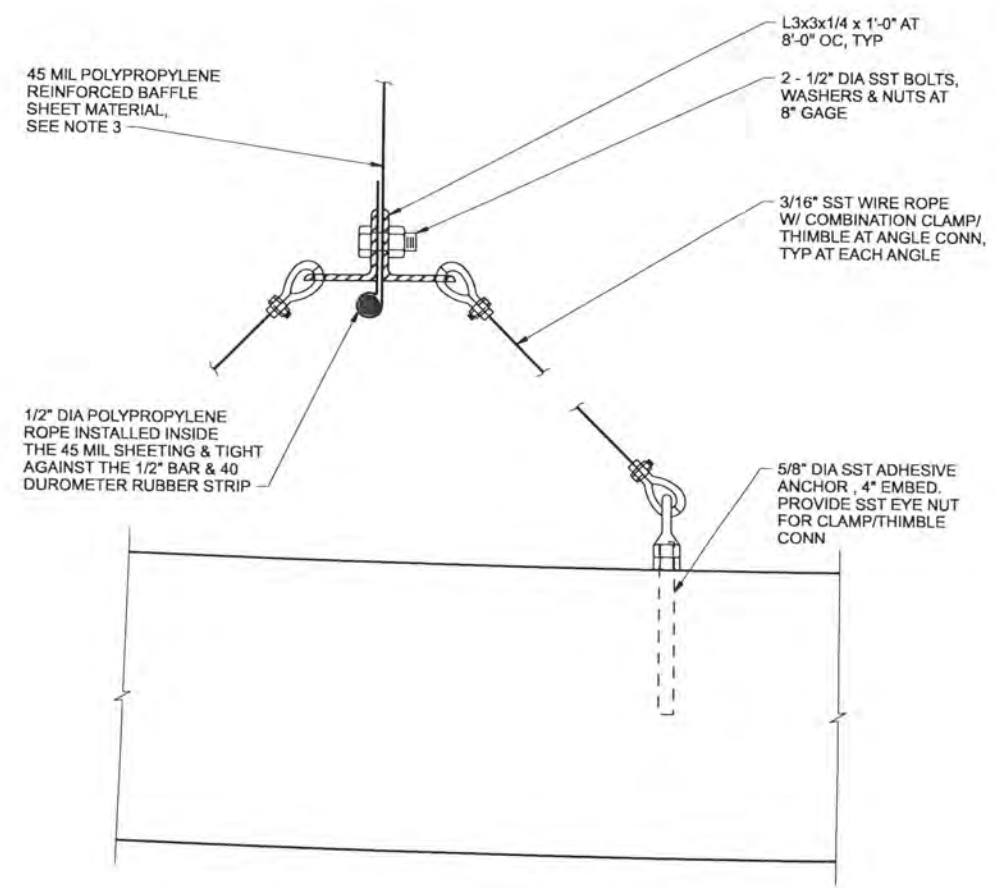
- NOTES:**
- CUT AND FABRICATE POLYPROPYLENE REINFORCED BAFFLES SO THAT WHEN INSTALLED THE PANEL LENGTHS ARE 2'-0" WIDER AND HIGHER THAN THE CLEAR DISTANCE BETWEEN THE 3x4x1/4" SST ANGLES WHEN ATTACHED AND SUPPORTED AS SHOWN. PROVIDE SLACK FOR WATER MOVEMENT DURING SEISMIC EVENTS.
 - RELOCATE THE LAST BOLT IN EACH DIRECTION AT THE CORNERS TO BE 6" FROM THE END OF THE ANGLE BATTEN AND THE BAFFLE MATERIAL. THE END SPACING OF THE LAST TWO BOLTS AT EACH CORNER IN EACH DIRECTION SHALL BE APPROXIMATELY 12" APART ON THE DIAGONAL.
 - INSTALL THE BAFFLE FROM THE CENTERLINE OUTWARD (TOP, BOTTOM, AND SIDES). BRING THE EXCESS MATERIAL INTO A DIAGONAL FOLD WITH A DIAMETER OF APPROXIMATELY 1'-0" FROM CORNER TO CORNER. THE INSTALLED BAFFLE WILL APPEAR OVERALL TO HAVE AN X-FOLD FROM CORNER TO CORNER OF EACH AREA. THE EXCESS MATERIAL SHALL BE GATHERED IN THE SPACE BETWEEN THE END HOLES IN THE BATTEN BARS.
 - CONTINUOUS SEAM WELD SPLICES IN BAFFLE MATERIAL.
 - SEAL GAPS IN BAFFLE AT SUPPORT FRAMING AND BATTEN PLATES WITH POTABLE GRADE FLEXIBLE SEALANT. STOP ALL WATER LEAK PATHS.



BAFFLE CONNECTION DETAIL 1
NTS



FLEXIBLE BAFFLE ATTACHMENT DETAIL 2
NTS



FREE EDGE BAFFLE CONNECTION 3
NTS

RECORD DRAWINGS

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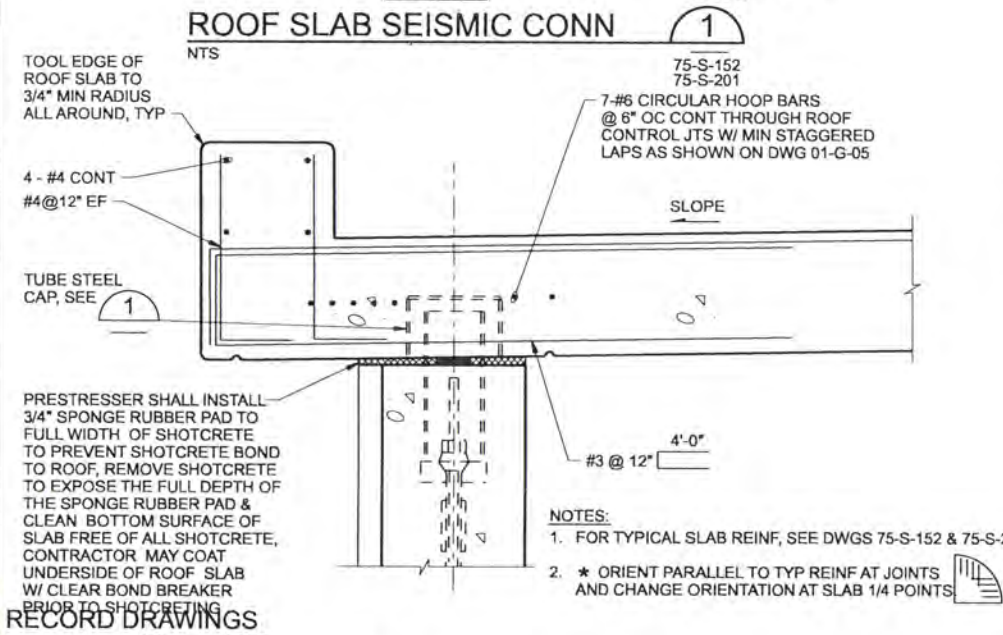
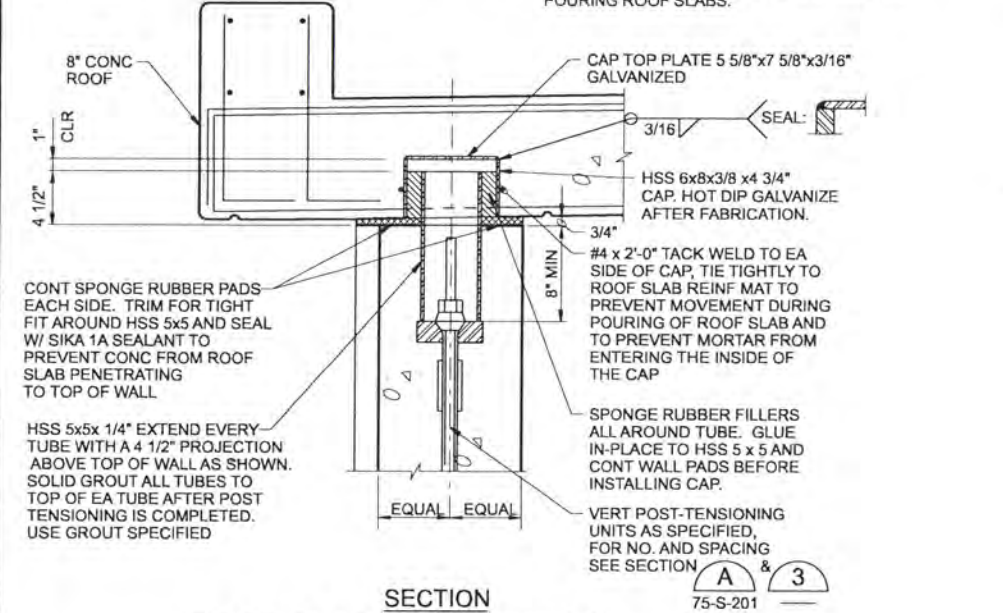
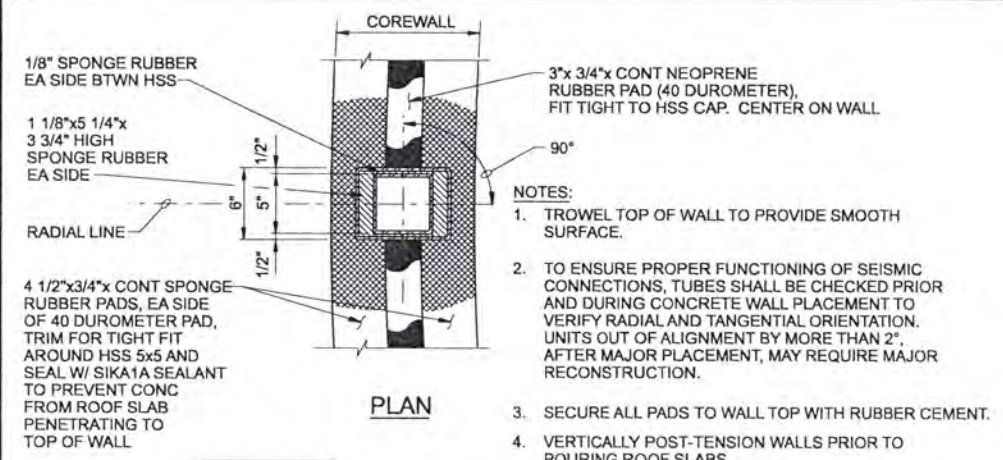


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

PRESTRESSED CONCRETE FINISHED WATER RESERVOIR
 STRUCTURAL
 SECTION AND DETAILS

SHEET	259
DWG	75-S-205
DATE	APRIL 2004
PROJ	170368

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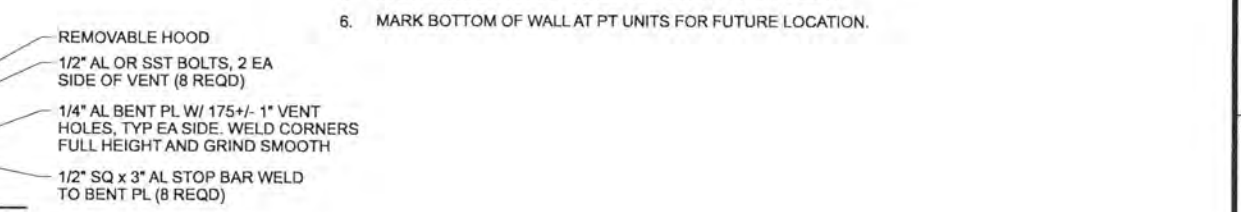
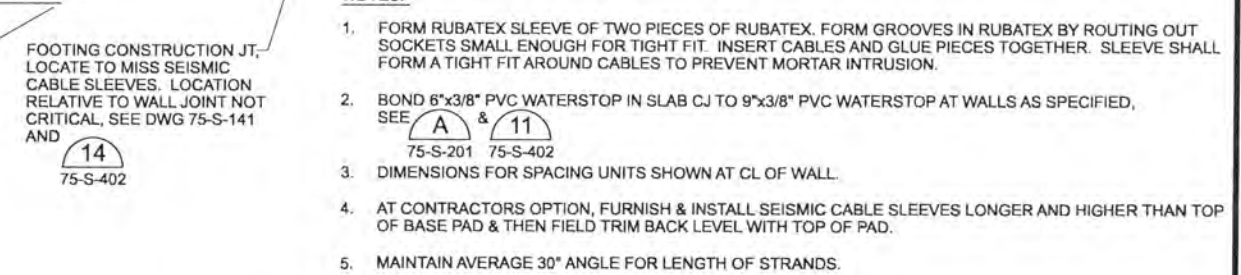
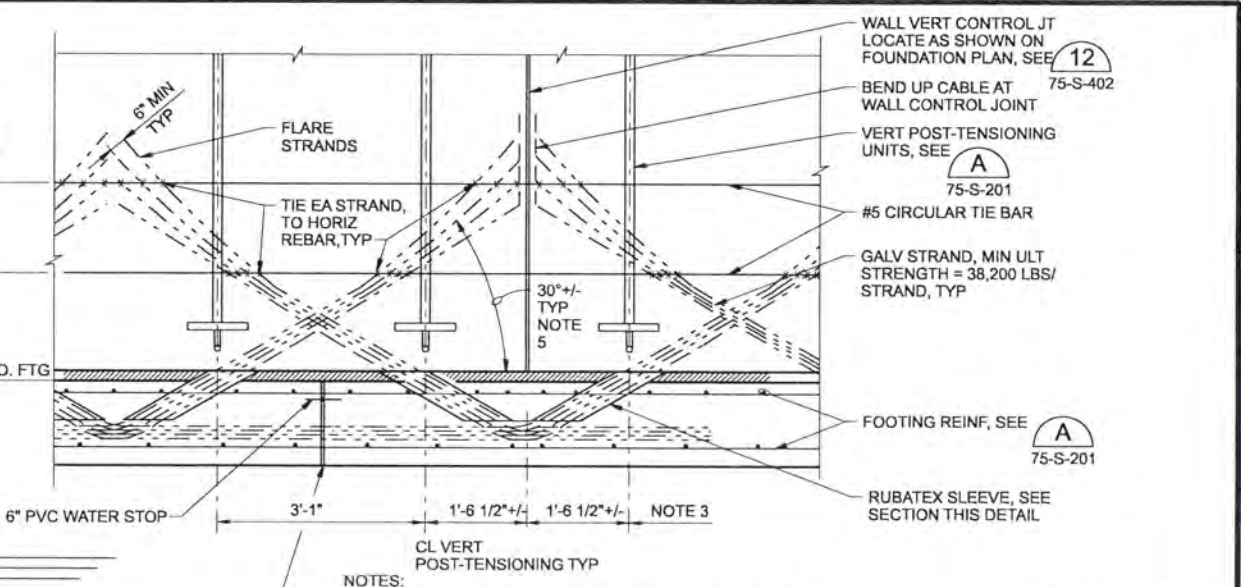
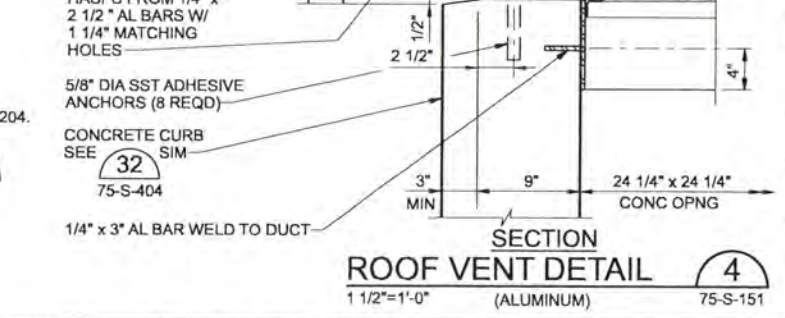
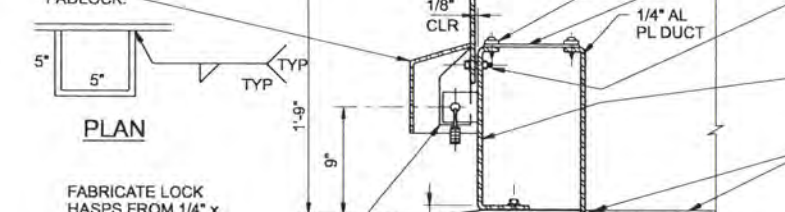
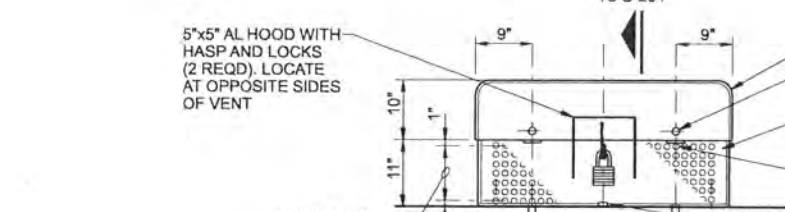
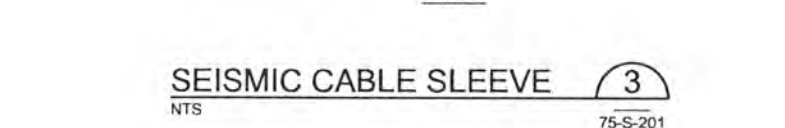
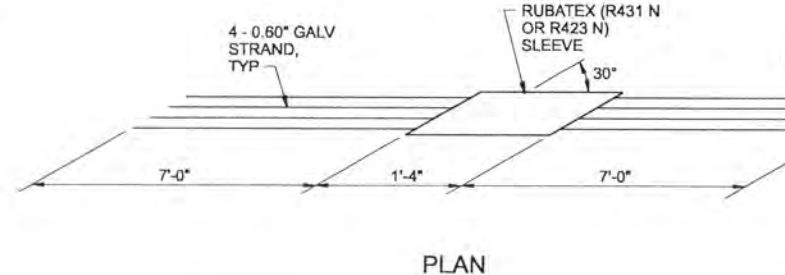
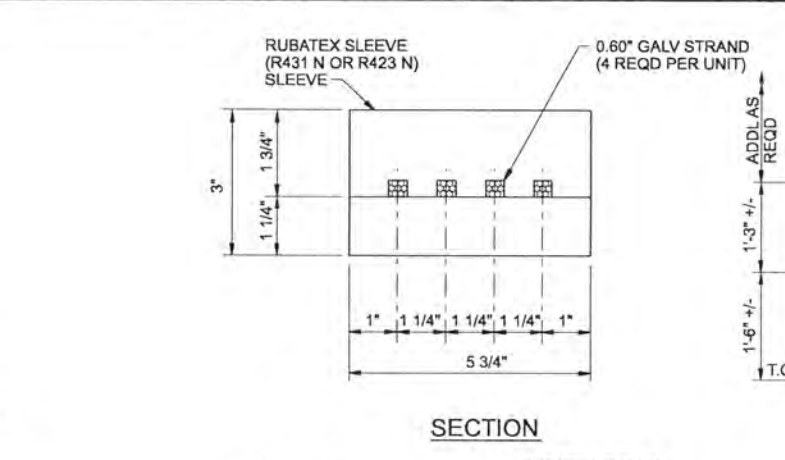


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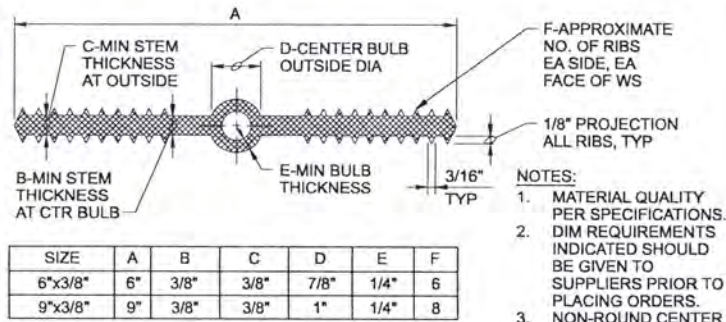
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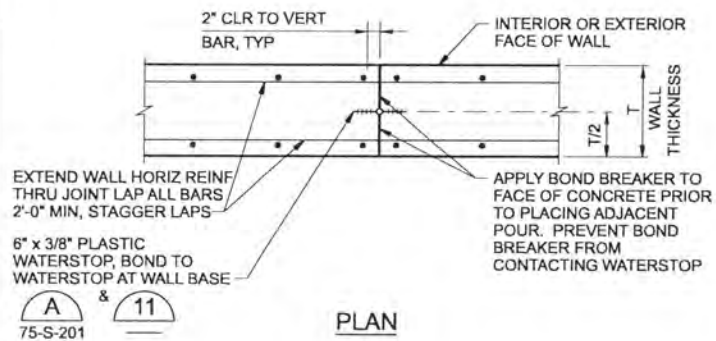
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PRESTRESSED CONCRETE FINISHED WATER RESERVOIR	STRUCTURAL DETAILS
SHEET	260
DWG	75-S-401
DATE	APRIL 2004
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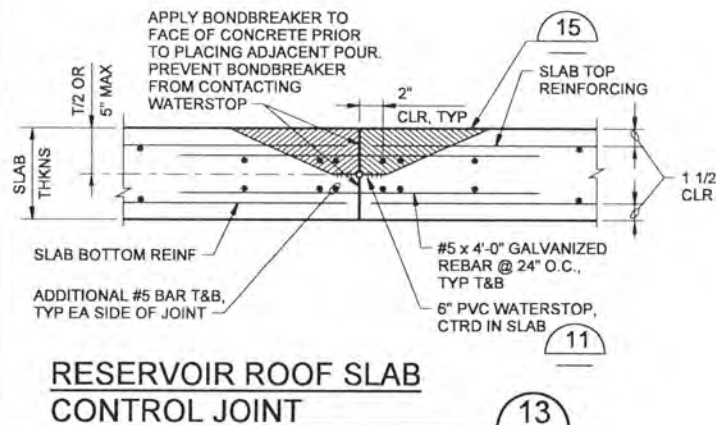
PLASTIC WATERSTOP

NTS 75-S-401



RESERVOIR VERTICAL WALL CONTROL JOINT

NTS 75-S-141, 75-S-401



RESERVOIR ROOF SLAB CONTROL JOINT

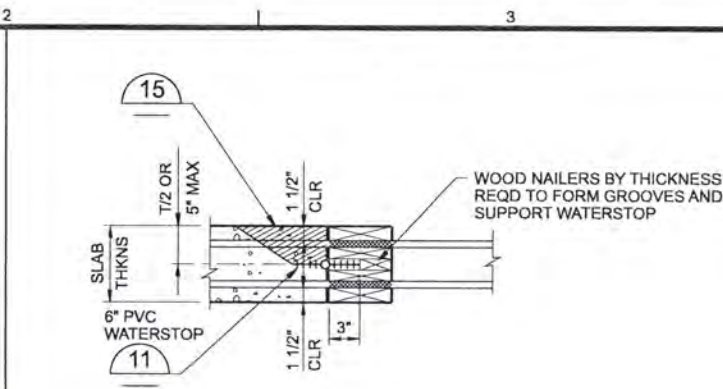
RECORD DRAWINGS 75-S-151, 75-S-152

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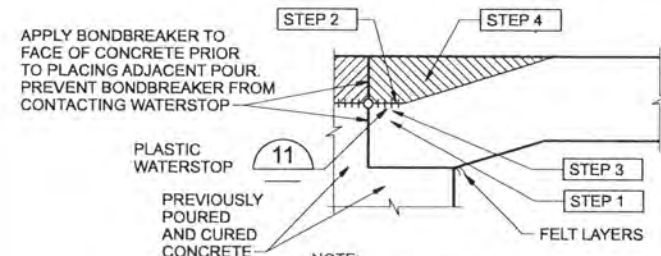
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	6/2006	RECORD DRAWING



RESERVOIR WALL FTG CONSTRUCTION JOINT

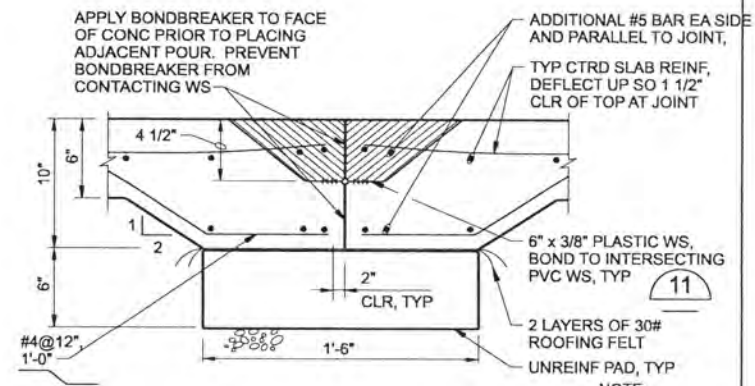
NTS 75-S-141, 75-S-401



- STEP 1**
PLACE CONCRETE BELOW WATERSTOP FIRST, REMOVE ALL AIR VOIDS BY VIBRATING THOROUGHLY.
- STEP 2**
TO CONFIRM THERE ARE NO AIR VOIDS, LIFT WATERSTOP. A CONTINUOUS IMPRESSION OF THE WATERSTOP, INCLUDING EDGE OF BULB, SHOULD BE VISIBLE IN THE FRESH CONCRETE. CONTINUE THIS PROCEDURE ALONG THE ENTIRE POURED JOINT, END TO END. IF A CONTINUOUS IMPRESSION IS CONFIRMED, PROCEED WITH STEP 4. IF A VOID LARGER THAN 1/4 INCH IN DIAMETER IS PRESENT ANYWHERE IN THE WATERSTOP IMPRESSION, PROCEED WITH STEP 3.
- STEP 3**
IF A VOID LARGER THAN 1/4 INCH IN DIAMETER IS PRESENT IN THE WATERSTOP IMPRESSION, ADDITIONAL CONCRETE SHALL BE PLACED UNDER THE WATERSTOP, VIBRATED, AND STEP 2 REPEATED.
- STEP 4**
FINISH PLACING CONCRETE ABOVE THE WATERSTOP TO TOP OF SLAB.

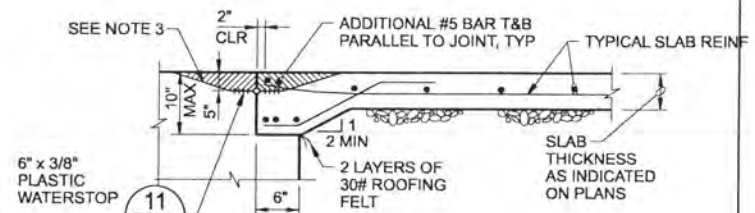
CONCRETE PLACEMENT SEQUENCE AT JOINTS

NTS (SEE JOINT DETAILS FOR SPECIFIC MATERIALS) 75-S-141



RESERVOIR BASE SLAB CONTRACTION JOINT

NTS 75-S-141, 75-S-201



ENCASEMENT-SLAB CONTRACTION JOINT

NTS 75-S-402

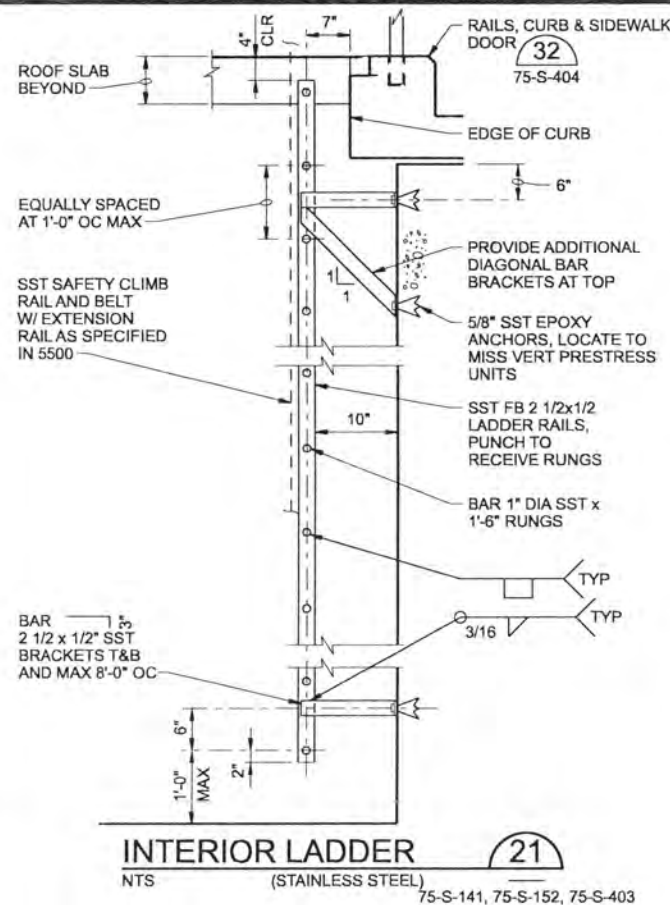
- NOTES:
1. TYPICAL AT BASE SLAB INTERSECTION WITH PIPE ENCASEMENT, SIM 15
2. SLAB ELEVATIONS AND DIRECTION OF SLOPE VARIES, SEE PLANS.
3. PLACE CONCRETE AROUND WATERSTOP AS SHOWN ON CONCRETE PLACEMENT SEQUENCE AT EXPANSION JOINT DETAIL 15
4. BOND WATERSTOP IN PERPENDICULAR BASE SLAB JOINT TO WATERSTOP SHOWN.

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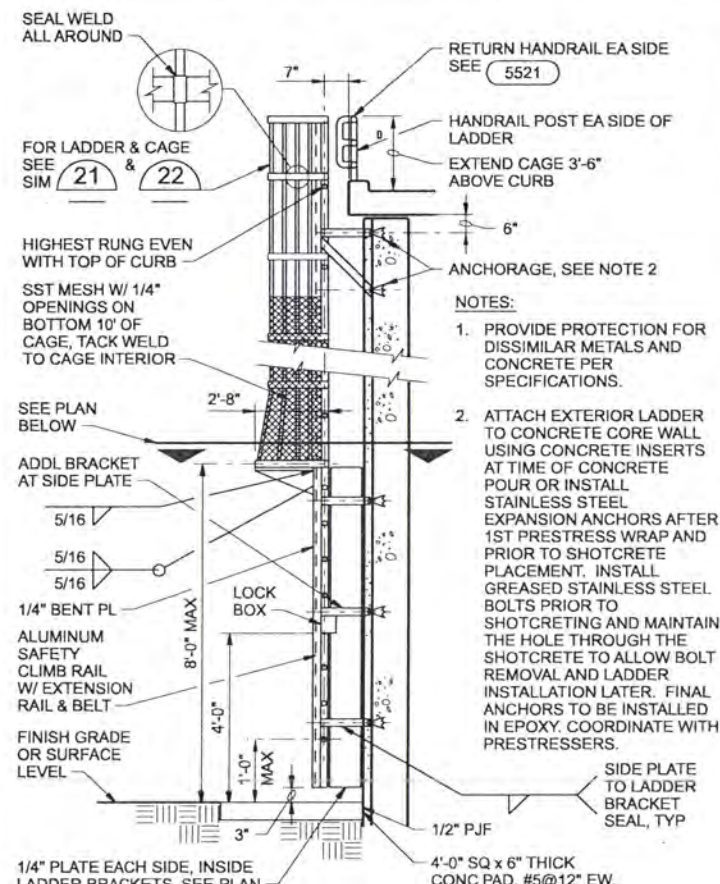
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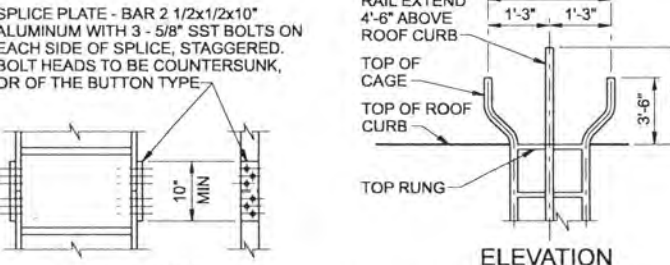
SHEET	261
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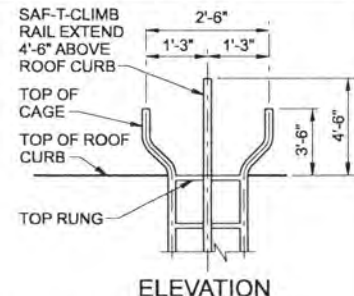
INTERIOR LADDER (21)
NTS (STAINLESS STEEL)
75-S-141, 75-S-152, 75-S-403



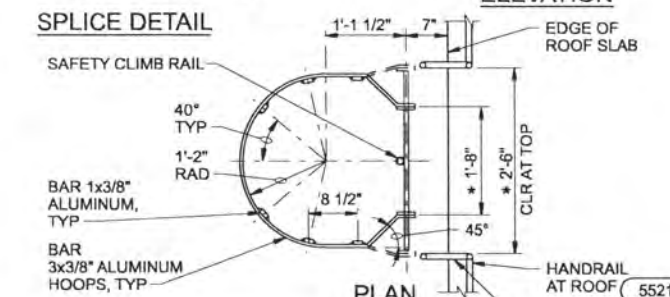
SECTION
1/4" PLATE EACH SIDE, INSIDE LADDER BRACKETS, SEE PLAN



SPLICE DETAIL



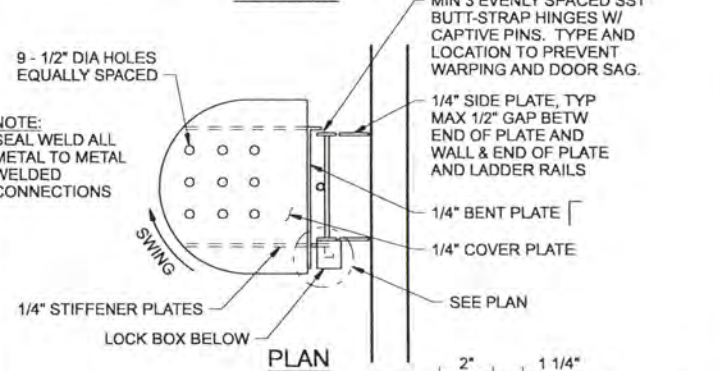
ELEVATION



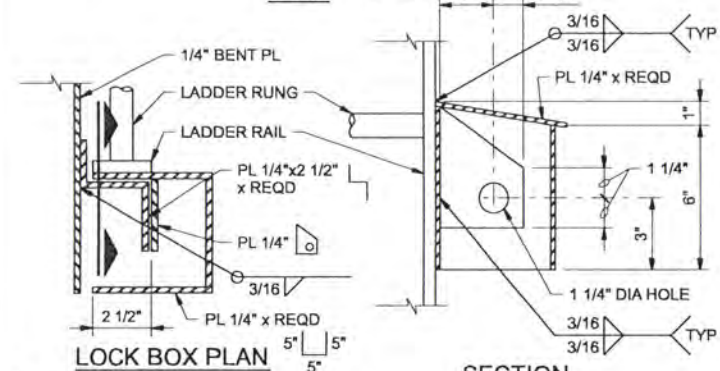
PLAN

- NOTES:**
1. PROVIDE PROTECTION FOR DISSIMILAR METALS AND CONCRETE PER SPECIFICATIONS.
 2. * WIDEN CAGE FROM 1'-8" TO 2'-6" AT TOP TO ACCESS SAFETY CLIMB RAIL. SUBMIT COORDINATED SHOP DRAWINGS.

LADDER WITH SAFETY CAGE (22)
NTS (ALUMINUM)

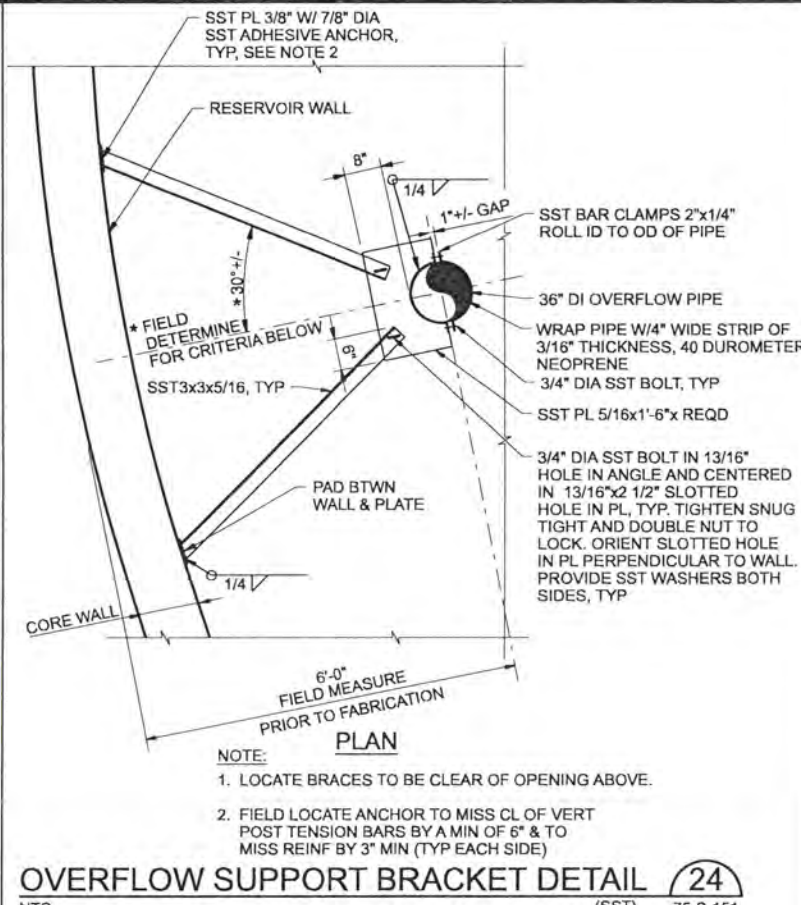


PLAN



SECTION

EXTERIOR LADDER WITH SAFETY CAGE (23)
NTS ALUMINUM AT PRESTRESSED RESERVOIR STEEL AT STEEL RESERVOIR
75-S-141, 75-S-151, 75-S-152



OVERFLOW SUPPORT BRACKET DETAIL (24)
NTS (SST) 75-S-151 75-S-203

Revisions Drawn By: JMD Date: 6/2006

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VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	

BY	APVD

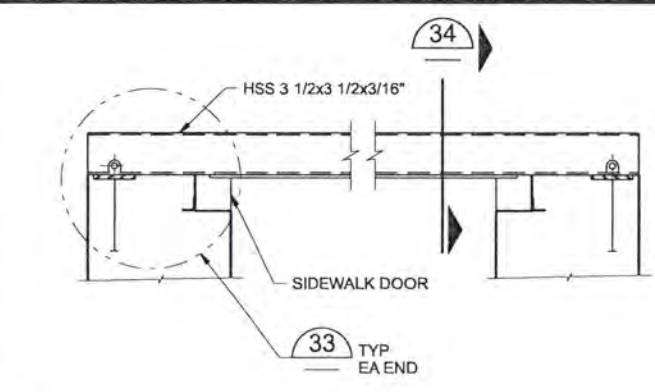


ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

PRESTRESSED CONCRETE FINISHED WATER RESERVOIR
STRUCTURAL DETAILS

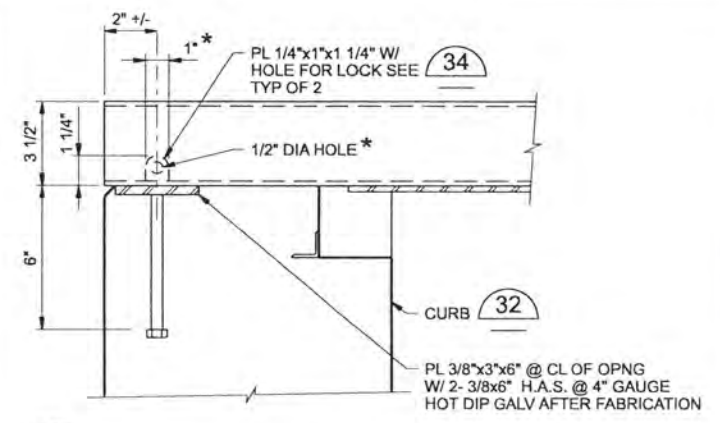
SHEET	262
DWG	75-S-403
DATE	APRIL 2004
PROJ	170368

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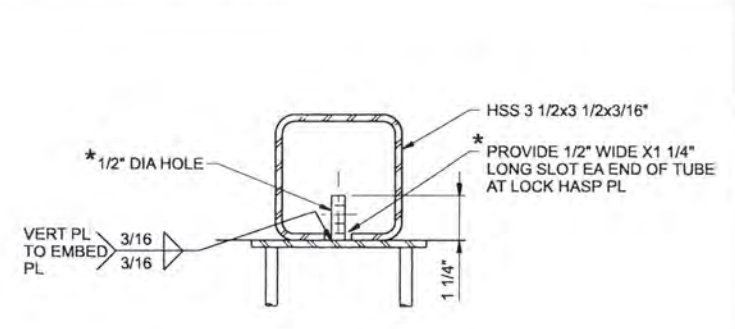
NOTE:
HOT DIP GALVANIZE AFTER FABRICATION

DOOR LOCK (31)
1 1/2"-1'-0"
75-S-152



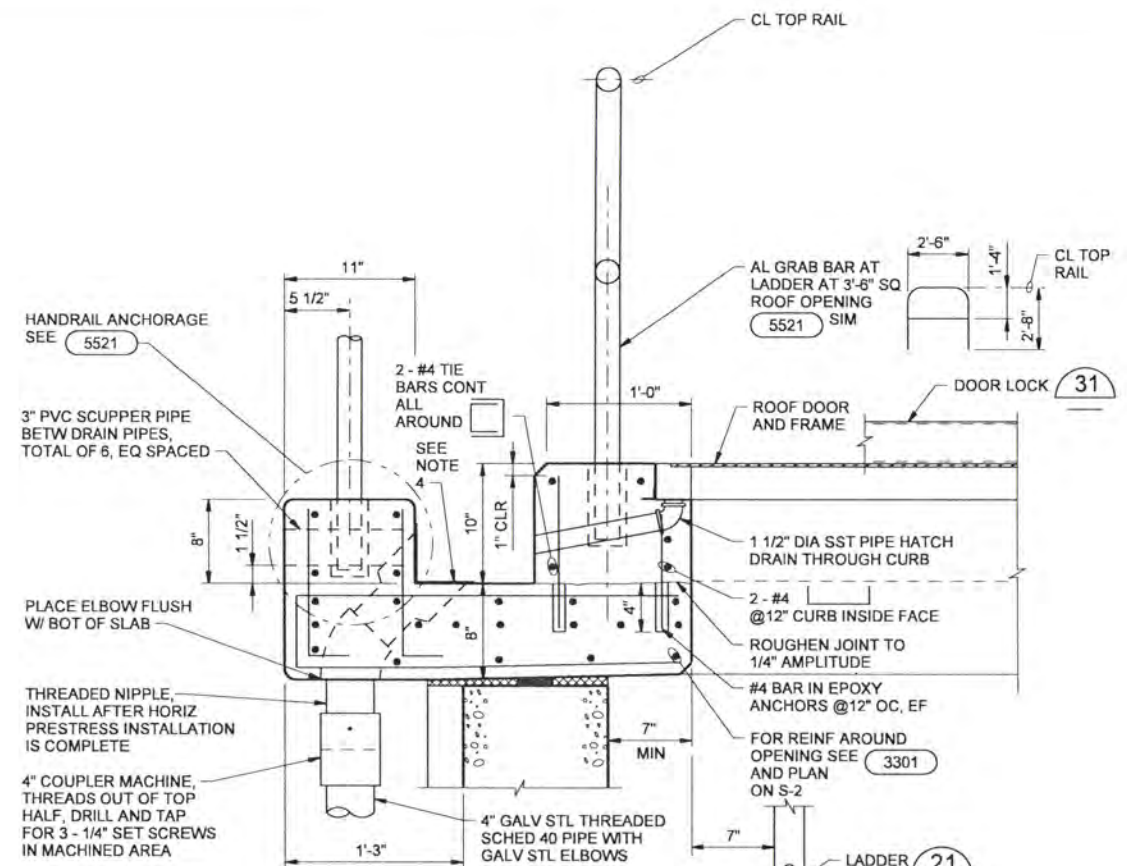
NOTE:
* VERIFY HOLE DIAMETER WITH OWNER FURNISHED PADLOCKS. MODIFY PL WIDTH AND SLOT LENGTH AS REQUIRED.

EMBED LOCK PLATE DETAIL (33)
3"-1'-0"



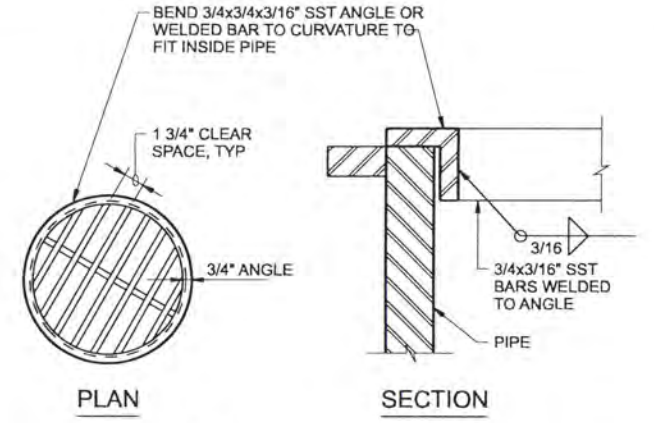
NOTE:
* VERIFY HOLE DIAMETER WITH OWNER FURNISHED PADLOCKS. MODIFY PL WIDTH AND SLOT LENGTH AS REQUIRED.

LOCK BAR SECTION (34)
NTS



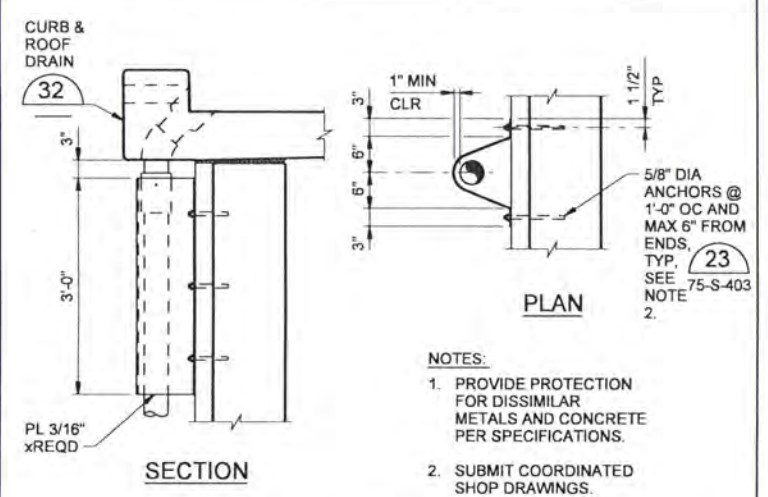
- NOTES:
1. PLACE CONCRETE CURB AFTER COMPLETION OF THE PRESTRESSING OF THE TANK.
 2. CURB TYPICAL AROUND SIDEWALK DOOR PERIMETER.
 3. LOCATE HANDRAIL POSTS AND CURB REBAR EMBEDS TO MISS HSS 6X8 CAPS. SEE
 4. 6 ZURN (Z-189) SCUPPER DRAINS @ 60°. LOCATE MIDWAY BETWEEN VERTICAL PRESTRESS UNITS.
 5. PROVIDE CLIMB GUARD AT TOP OF EACH ROOF DRAIN DOWNSPOUT. SEE (36)

ROOF DOOR CURB DETAIL (32)
1 1/2"-1'-0"
75-S-151, 75-S-401



NOTE:
ALL WELDS SHALL BE SEAL WELDS.

PIPE SCREEN DETAIL (35)
NTS
75-S-202, 75-S-203



- NOTES:
1. PROVIDE PROTECTION FOR DISSIMILAR METALS AND CONCRETE PER SPECIFICATIONS.
 2. SUBMIT COORDINATED SHOP DRAWINGS.

DOWNSPOUT GUARD (36)
3/4"-1'-0"
(ALUMINUM)

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION, THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

DSGN	MJ MERKLEIN						VERIFY SCALE
DR	KJ DAVIS						BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	KB WHITTIER	6/2006	RECORD DRAWING	JMD	RCF		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

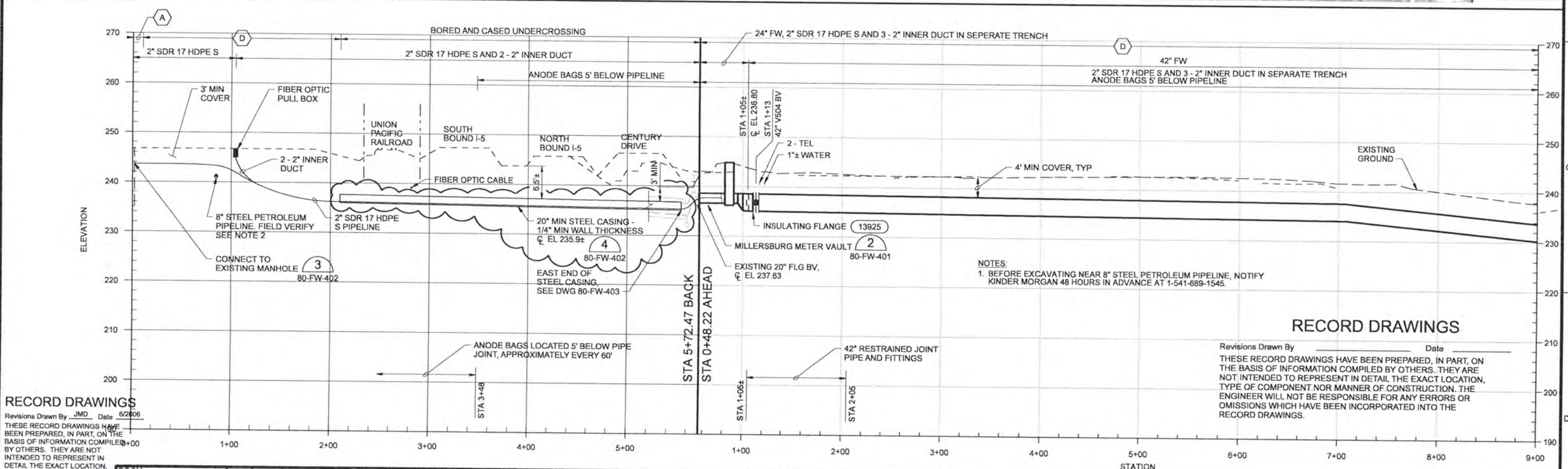
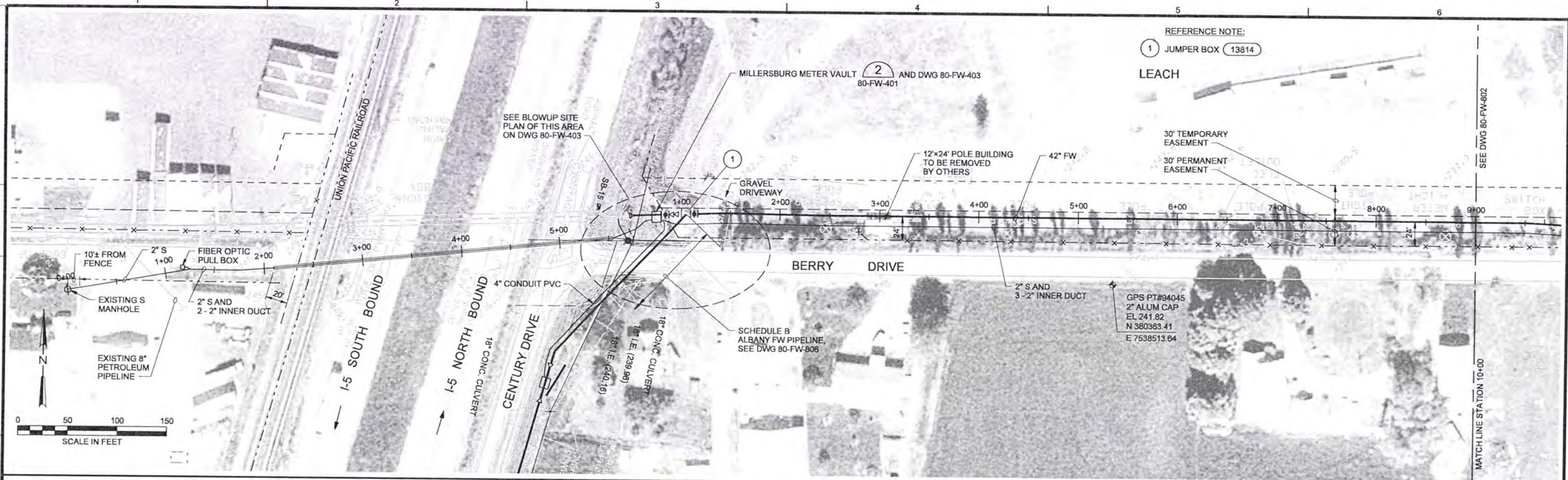


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

PRESTRESSED CONCRETE FINISHED WATER RESERVOIR
STRUCTURAL
DETAILS

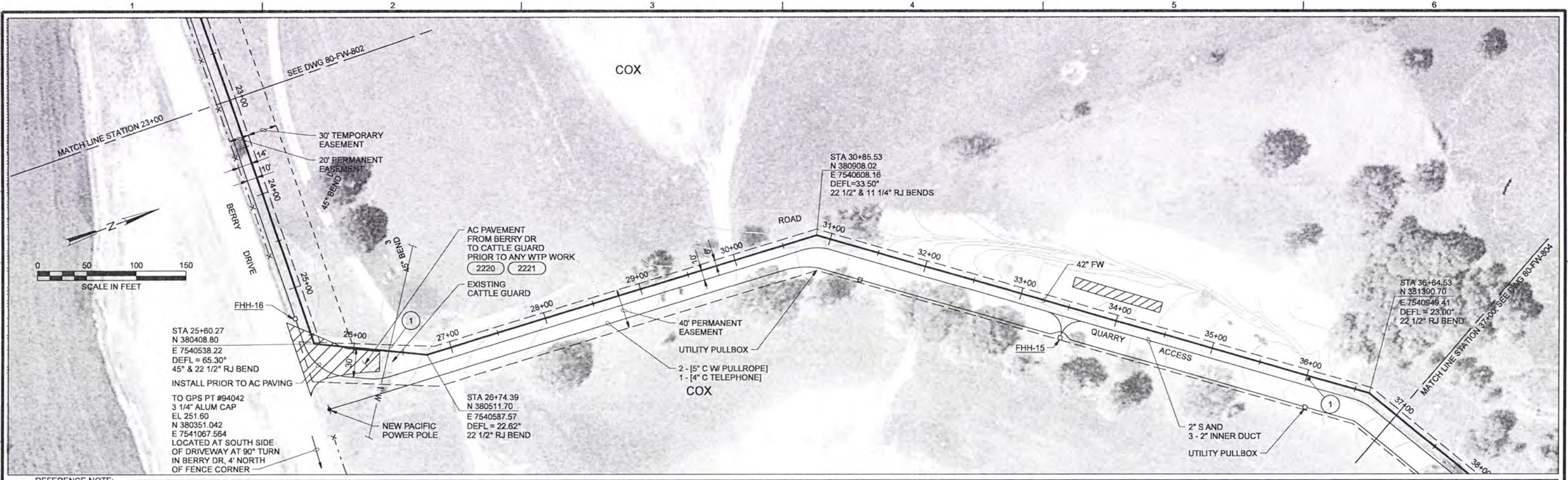
SHEET	263
DWG	75-S-404
DATE	APRIL 2004
PROJ	170368

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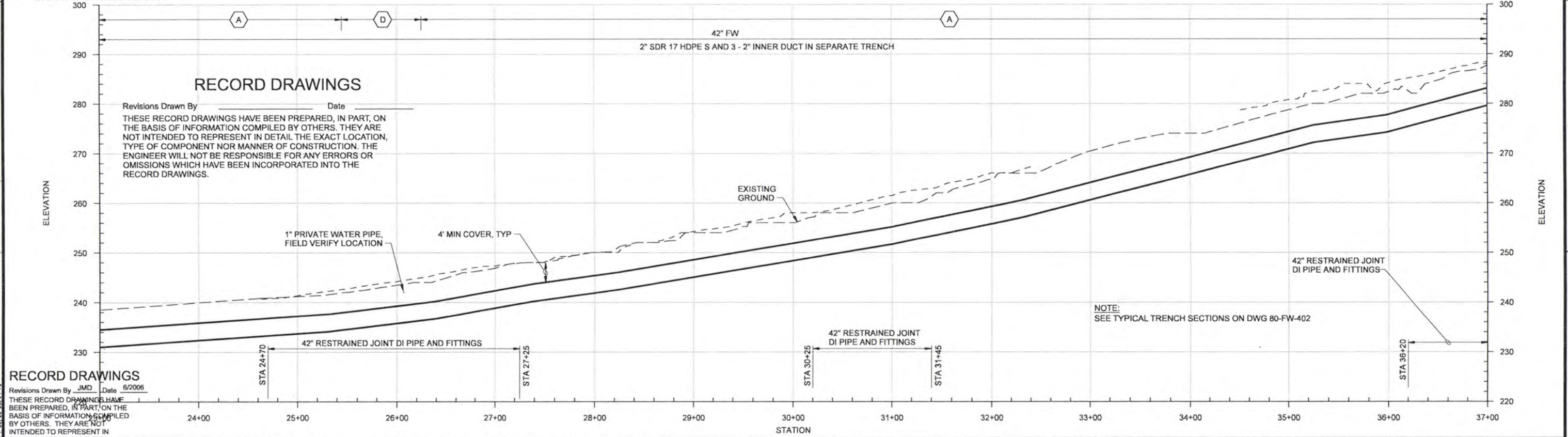


RECORD DRAWINGS Revisions Drawn By <u>JMD</u> Date <u>6/2/06</u> THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.		RECORD DRAWINGS Revisions Drawn By _____ Date _____ THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.	
DSGN DR CHK APVD	GG SILBERNAGEL LG McCALL WB WAGNER CW MASSIE	NO. DATE REVISION 1 5/04 RFI 038 1 6/06 RECORD DRAWING	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
CH2MHILL ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT LINN COUNTY, OREGON		FINISHED WATER TRANSMISSION PIPELINE ALBANY/MILLERSBURG FW PLAN AND PROFILE STATION 0+69 TO STATION 10+00	
SHEET 264 DWG 80-FW-801 DATE APRIL 2004 PROJ 170368		FILENAME: 80cp801d_170368.dgn PLOT DATE: 19-MAY-2004 PLOT TIME: 15:45:13	

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REFERENCE NOTE:
 TEST STATION TYPE PT-RA
 W/O UT GALVANIC ANODE
 LOCATE 4 FEET FROM ROADWAY



RECORD DRAWINGS

Revisions Drawn By _____ Date _____
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RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	GG SILBERNAGEL
DR	LG McCALL
CHK	WB WAGNER
APVD	CW MASSIE

NO.	DATE	REVISION
	6/2006	RECORD DRAWING

BY	JMD	RCF
APVD		

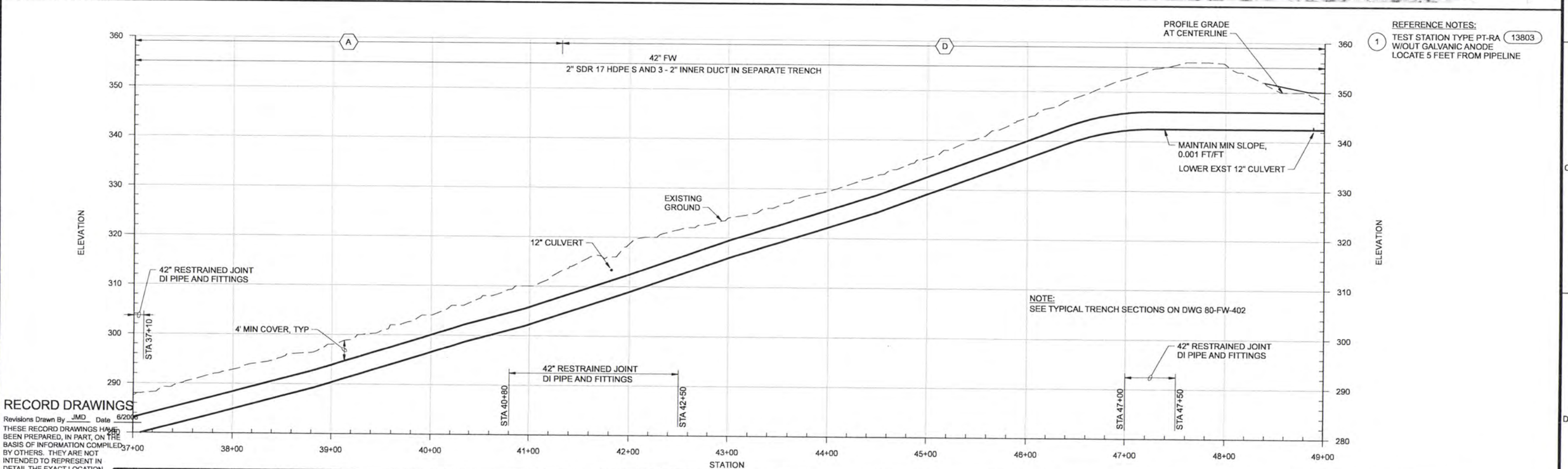
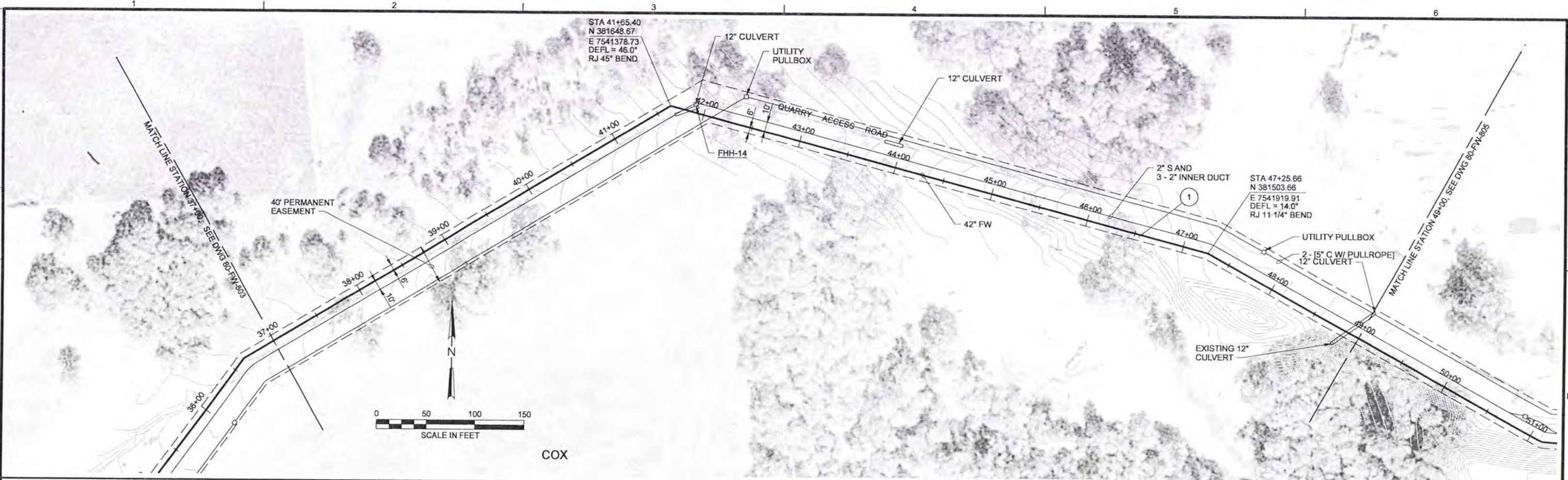
CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINE
ALBANY/ MILLERSBURG
 FW PLAN AND PROFILE
 STATION 23+00 TO STATION 37+00

SHEET	266
DWG	80-FW-803
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS
 Revisions Drawn By JMD Date 6/2006
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DSGN	GG SILBERNAGEL								
DR	LG McCALL								
CHK	WB WAGNER								
APVD	CW MASSIE								
		NO.	DATE	REVISION		BY	RCF		
			6/2006	RECORD DRAWING		JMD	RCF		

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

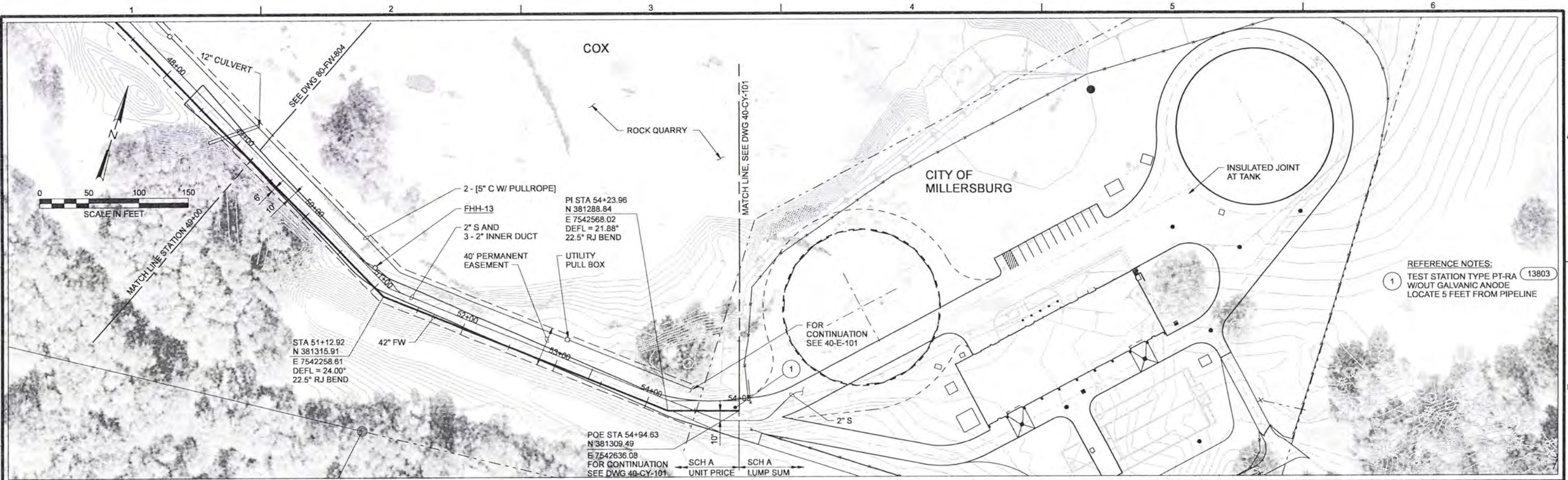


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

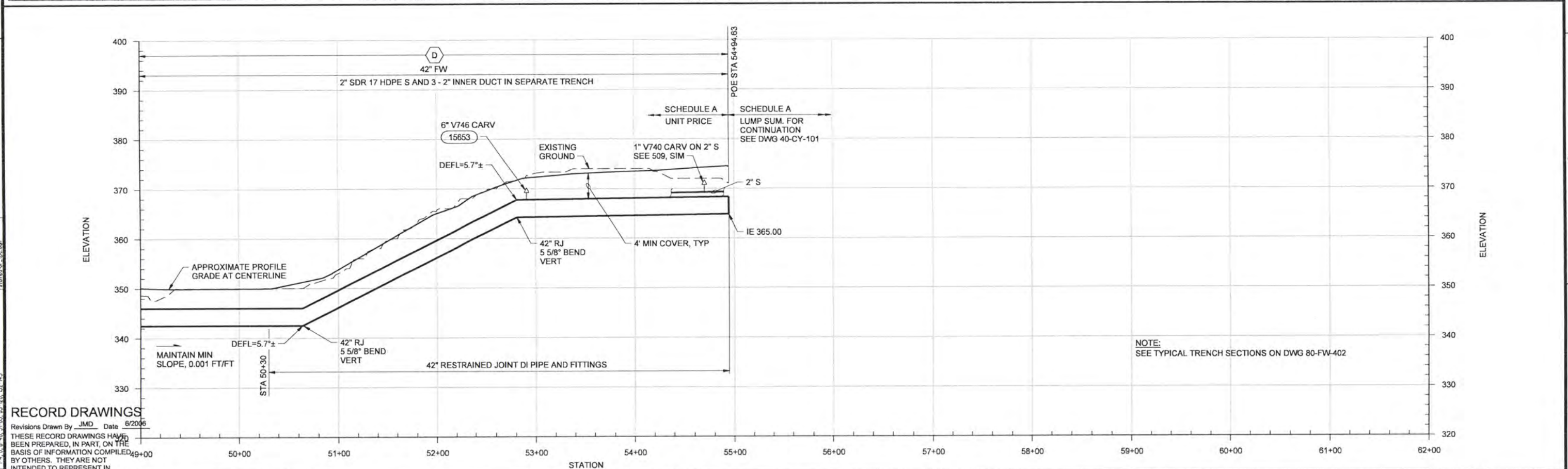
FINISHED WATER TRANSMISSION PIPELINE
 ALBANY/MILLERSBURG
 FW PLAN AND PROFILE
 STATION 37+00 TO STATION 49+00

SHEET	267
DWG	80-FW-804
DATE	APRIL 2004
PROJ	170368

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REFERENCE NOTES:
 1 TEST STATION TYPE PT-RA 13803
 W/O GALVANIC ANODE
 LOCATE 5 FEET FROM PIPELINE



RECORD DRAWINGS
 Revisions Drawn By JMD Date 6/2006
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DSGN	GG SILBERNAGEL			
DR	LG McCALL			
CHK	WB WAGNER	6/2006	RECORD DRAWING	
APVD	CW MASSIE	NO.	DATE	REVISION

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
	0 1"
	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



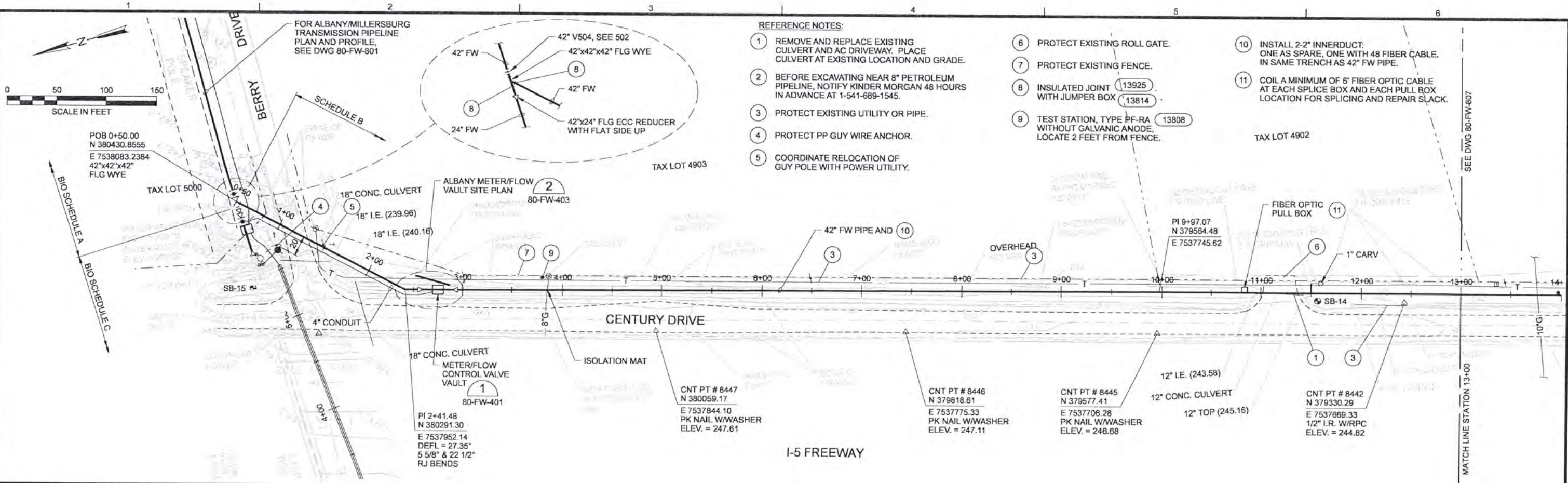
ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINE
 ALBANY \ MILLERSBURG
 FW PLAN AND PROFILE
 STATION 49+00 TO STATION 54+95

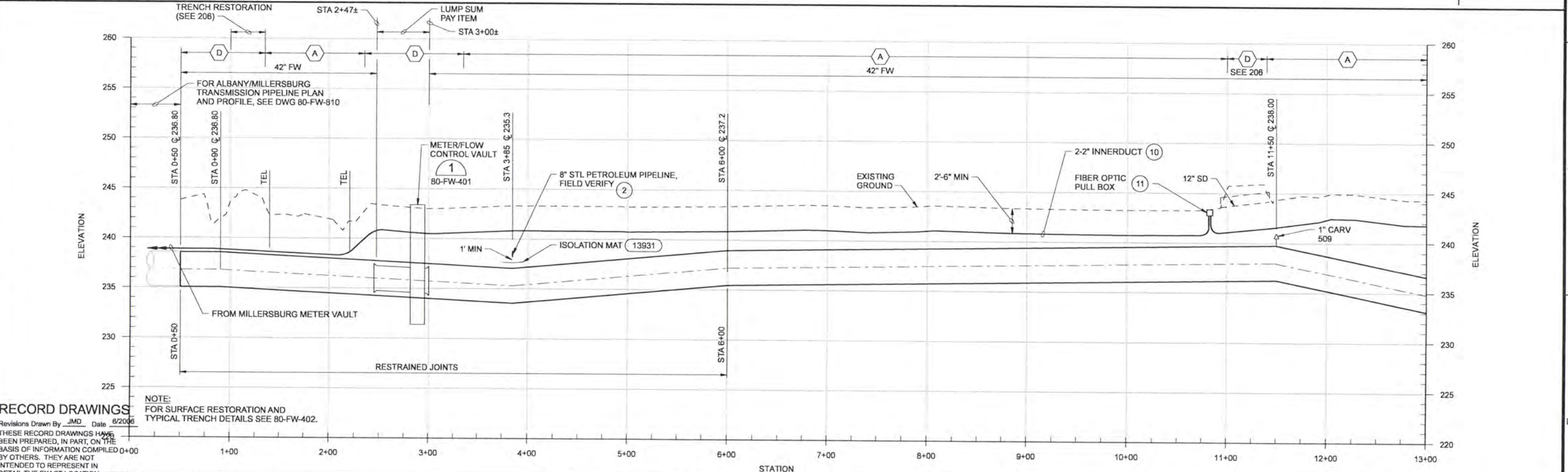
SHEET	268
DWG	80-FW-805
DATE	APRIL 2004
PROJ	170368

1-4, 6-8, 11-21, 24-58, 61-67
 42, 45, 47-51, 64-65, 67-140
 1-4, 6-8, 43, 51-63, 65-128, 132-145

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- REFERENCE NOTES:
- 1 REMOVE AND REPLACE EXISTING CULVERT AND AC DRIVEWAY. PLACE CULVERT AT EXISTING LOCATION AND GRADE.
 - 2 BEFORE EXCAVATING NEAR 8" PETROLEUM PIPELINE, NOTIFY KINDER MORGAN 48 HOURS IN ADVANCE AT 1-541-689-1545.
 - 3 PROTECT EXISTING UTILITY OR PIPE.
 - 4 PROTECT PP GUY WIRE ANCHOR.
 - 5 COORDINATE RELOCATION OF GUY POLE WITH POWER UTILITY.
 - 6 PROTECT EXISTING ROLL GATE.
 - 7 PROTECT EXISTING FENCE.
 - 8 INSULATED JOINT (13925) WITH JUMPER BOX (13814)
 - 9 TEST STATION, TYPE PF-RA WITHOUT GALVANIC ANODE, LOCATE 2 FEET FROM FENCE. (13808)
 - 10 INSTALL 2-2" INNERDUCT: ONE AS SPARE, ONE WITH 48 FIBER CABLE. IN SAME TRENCH AS 42" FW PIPE.
 - 11 COIL A MINIMUM OF 6' FIBER OPTIC CABLE AT EACH SPLICE BOX AND EACH PULL BOX LOCATION FOR SPLICING AND REPAIR SLACK.



RECORD DRAWINGS

Revisions Drawn By JMD Date 8/20/06
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NO.	DATE	REVISION
1	8/20/06	RECORD DRAWING

DESIGN	JE BARNHURST
DR	LG McCALL
CHK	WB WAGNER
APVD	CW MASSIE

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

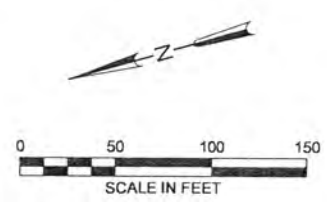
CH2MHILL

ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

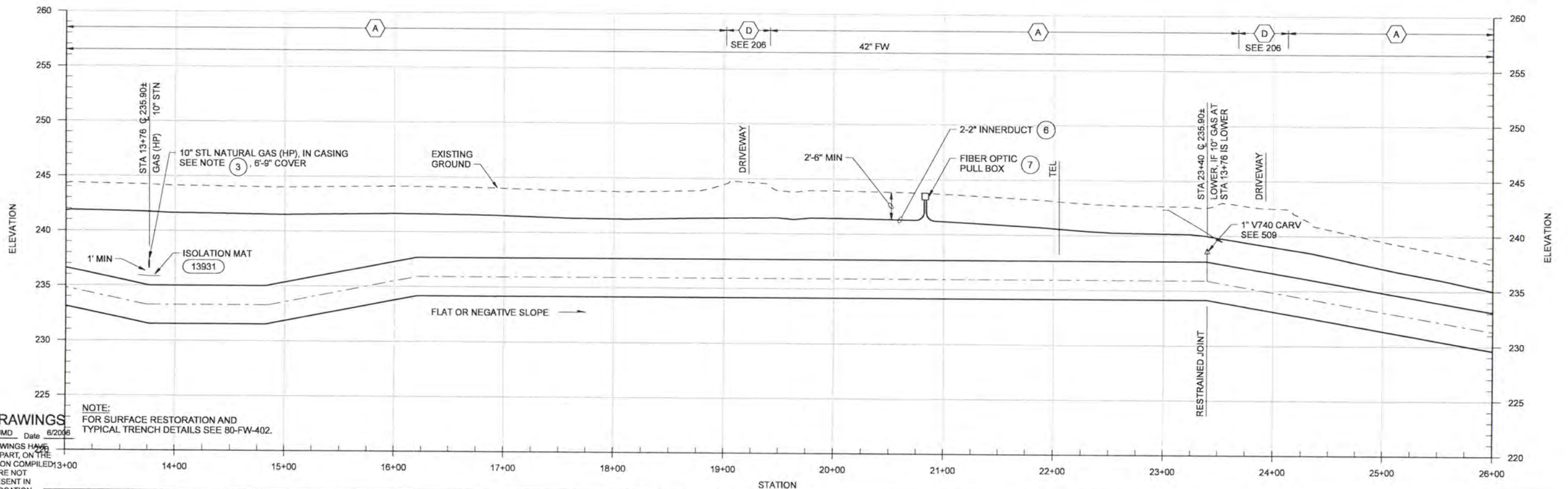
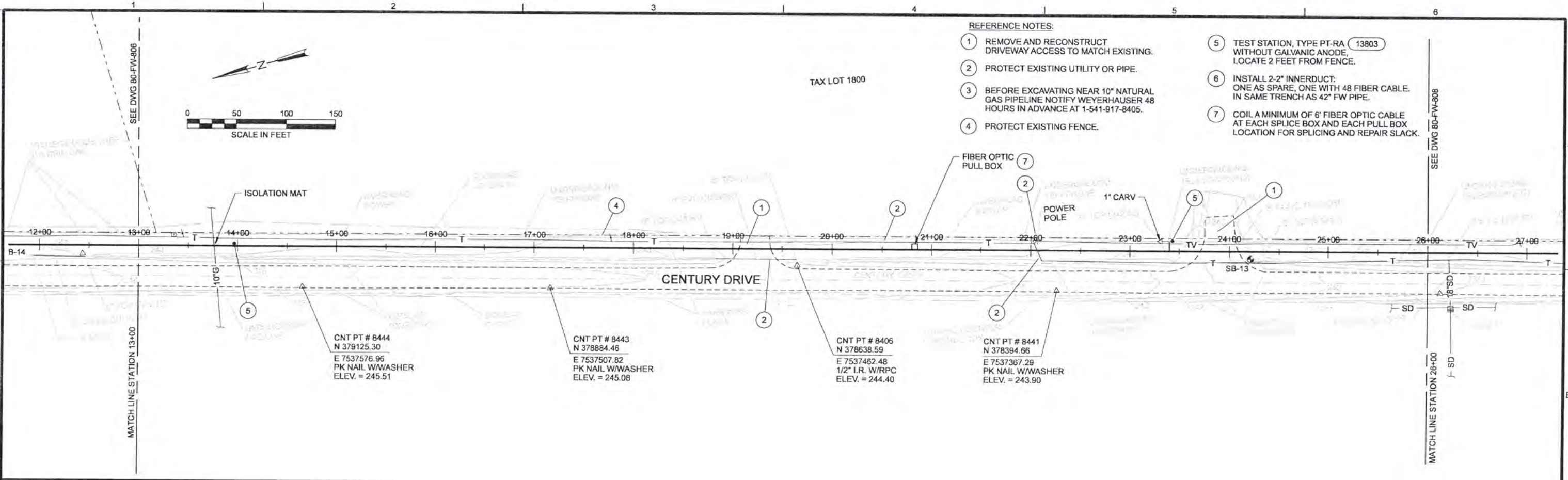
FINISHED WATER TRANSMISSION PIPELINE
 ALBANY FW PLAN AND PROFILE
 STATION 0+50 TO STATION 13+00

SHEET	269
DWG	80-FW-806
DATE	APRIL 2004
PROJ	170368

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- REFERENCE NOTES:
- 1 REMOVE AND RECONSTRUCT DRIVEWAY ACCESS TO MATCH EXISTING.
 - 2 PROTECT EXISTING UTILITY OR PIPE.
 - 3 BEFORE EXCAVATING NEAR 10" NATURAL GAS PIPELINE NOTIFY WEYERHAUSER 48 HOURS IN ADVANCE AT 1-541-917-8405.
 - 4 PROTECT EXISTING FENCE.
 - 5 TEST STATION, TYPE PT-RA (13803) WITHOUT GALVANIC ANODE, LOCATE 2 FEET FROM FENCE.
 - 6 INSTALL 2-2" INNERDUCT: ONE AS SPARE, ONE WITH 48 FIBER CABLE. IN SAME TRENCH AS 42" FW PIPE.
 - 7 COIL A MINIMUM OF 6' FIBER OPTIC CABLE AT EACH SPLICE BOX AND EACH PULL BOX LOCATION FOR SPLICING AND REPAIR SLACK.



RECORD DRAWINGS
 NOTE:
 FOR SURFACE RESTORATION AND
 TYPICAL TRENCH DETAILS SEE 80-FW-402.

Revisions Drawn By JMD Date 6/20/06
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DSGN	JE BARNHURST				
DR	LG McCALL				
CHK	WB WAGNER				
APVD	CW MASSIE	NO.	DATE	REVISION	BY
		1	6/20/06	RECORD DRAWING	JMD

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

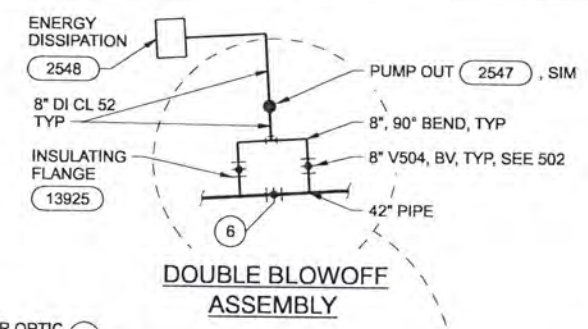
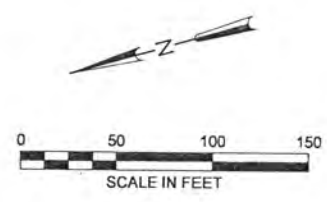


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINE
 ALBANY FW PLAN AND PROFILE
 STATION 13+00 TO STATION 26+00

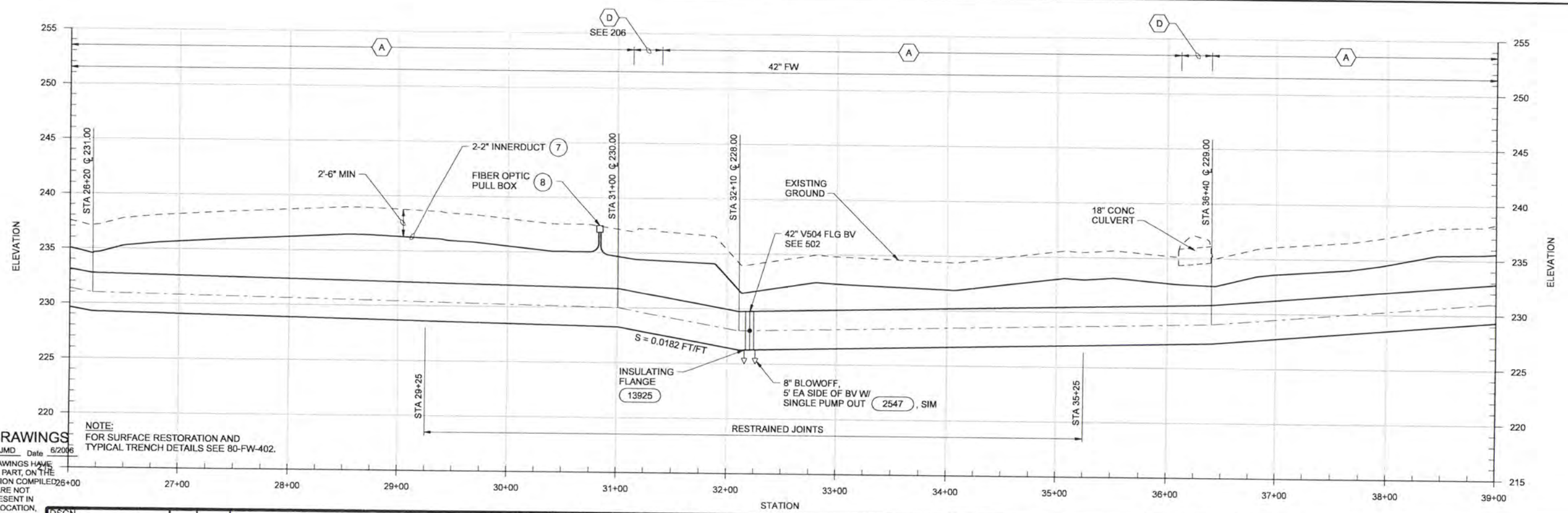
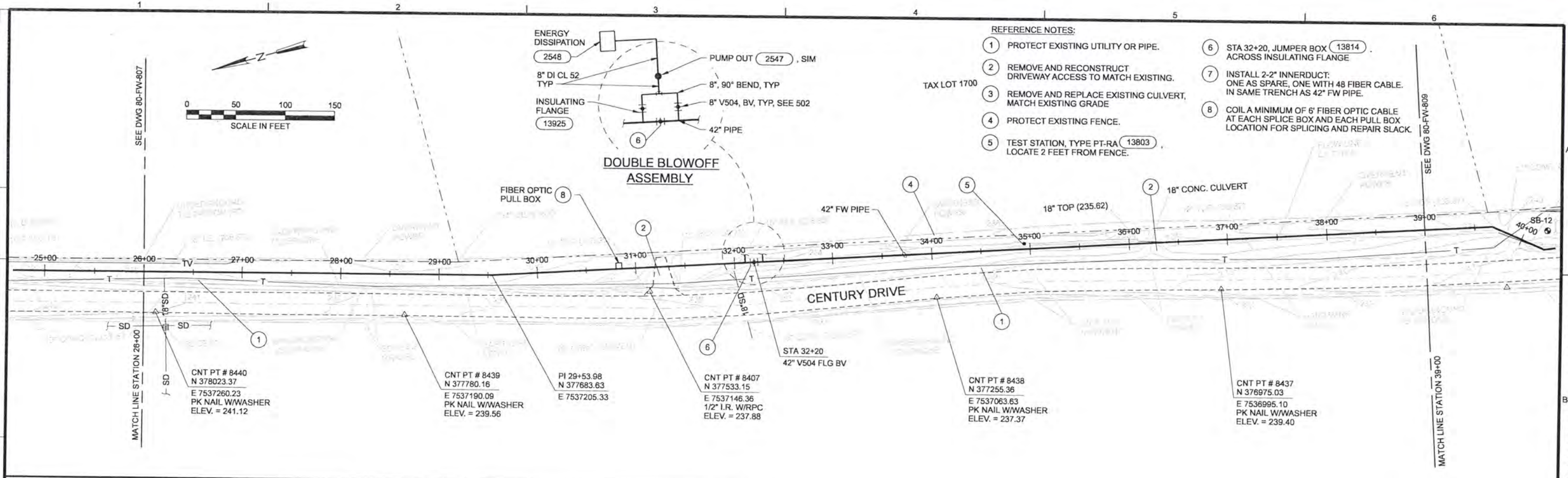
SHEET	270
DWG	80-FW-807
DATE	APRIL 2004
PROJ	170368

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REFERENCE NOTES:

- 1 PROTECT EXISTING UTILITY OR PIPE.
- 2 REMOVE AND RECONSTRUCT DRIVEWAY ACCESS TO MATCH EXISTING.
- 3 REMOVE AND REPLACE EXISTING CULVERT, MATCH EXISTING GRADE.
- 4 PROTECT EXISTING FENCE.
- 5 TEST STATION, TYPE PT-RA (13803), LOCATE 2 FEET FROM FENCE.
- 6 STA 32+20, JUMPER BOX (13814) ACROSS INSULATING FLANGE.
- 7 INSTALL 2-2" INNERDUCT, ONE AS SPARE, ONE WITH 48 FIBER CABLE. IN SAME TRENCH AS 42" FW PIPE.
- 8 COIL A MINIMUM OF 6' FIBER OPTIC CABLE AT EACH SPLICE BOX AND EACH PULL BOX LOCATION FOR SPLICING AND REPAIR SLACK.



NOTE:
FOR SURFACE RESTORATION AND
TYPICAL TRENCH DETAILS SEE 80-FW-402.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/20/09
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DESIGN	JE BARNHURST	NO.	1	DATE	6/20/09	REVISION	RECORD DRAWING
DR	LG McCALL	BY	JMD	APVD	CWM	VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
CHK	WB WAGNER	FILE NO.	80-FW-808	PROJECT	ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT	PROJECT	ALBANY FW PLAN AND PROFILE STATION 26+00 TO STATION 39+00
APVD	CW MASSIE	DATE		PROJECT	FINISHED WATER TRANSMISSION PIPELINE	PROJECT	ALBANY FW PLAN AND PROFILE STATION 26+00 TO STATION 39+00

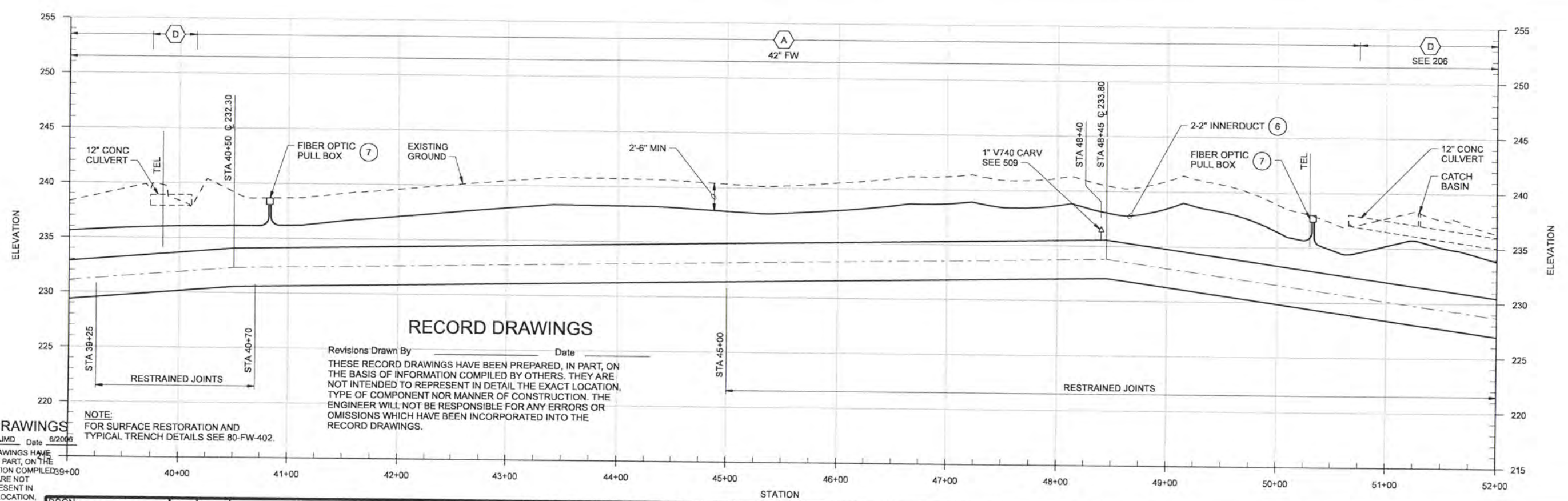
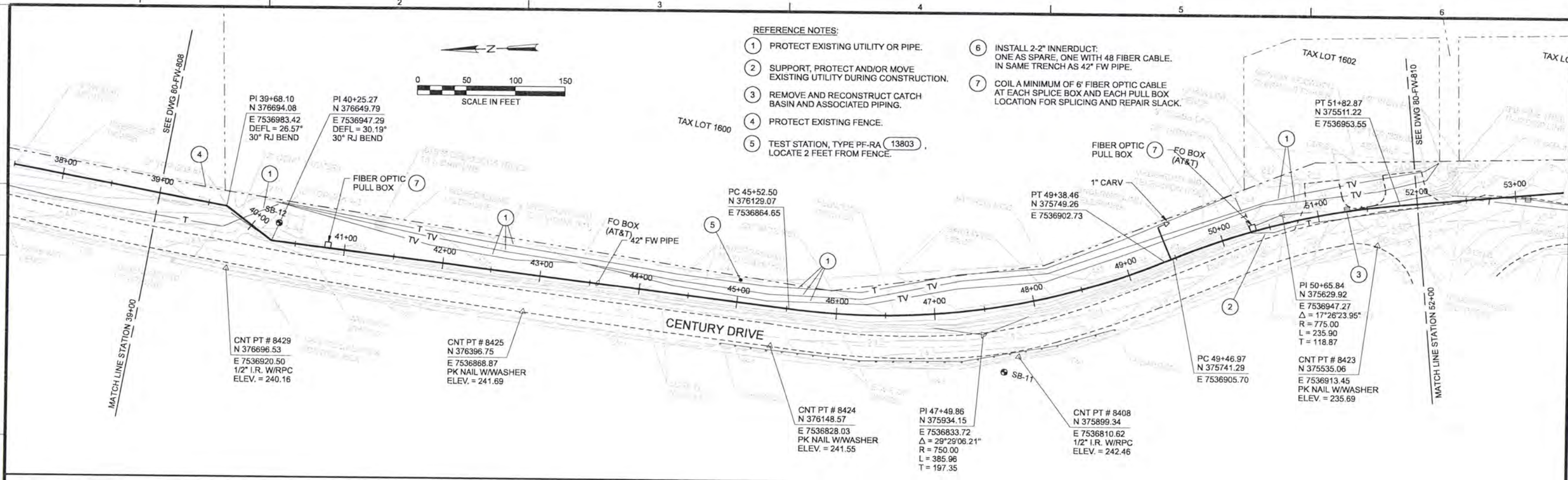


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINE
ALBANY FW PLAN AND PROFILE
STATION 26+00 TO STATION 39+00

SHEET	271
DWG	80-FW-808
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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DSGN	JE BARNHURST
DR	LG McCALL
CHK	WB WAGNER
APVD	CW MASSIE

NO.	DATE	REVISION
1	6/2006	RECORD DRAWING

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

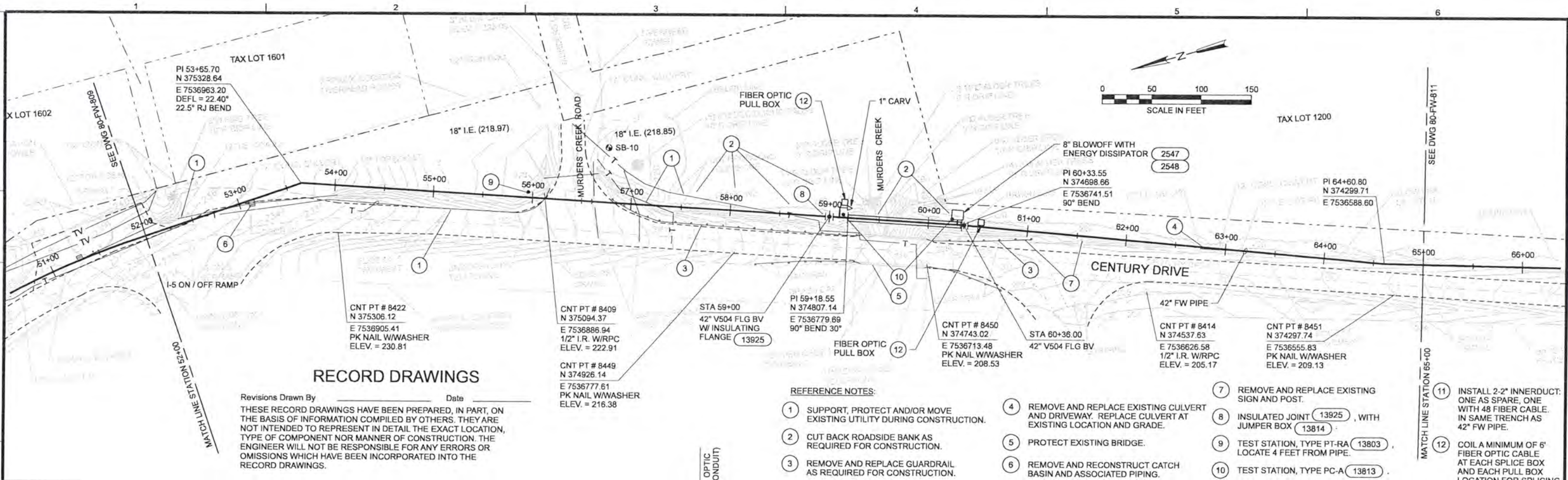


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINE
 ALBANY FW PLAN AND PROFILE
 STATION 39+00 TO STATION 52+00

SHEET	272
DWG	80-FW-809
DATE	APRIL 2004
PROJ	170368

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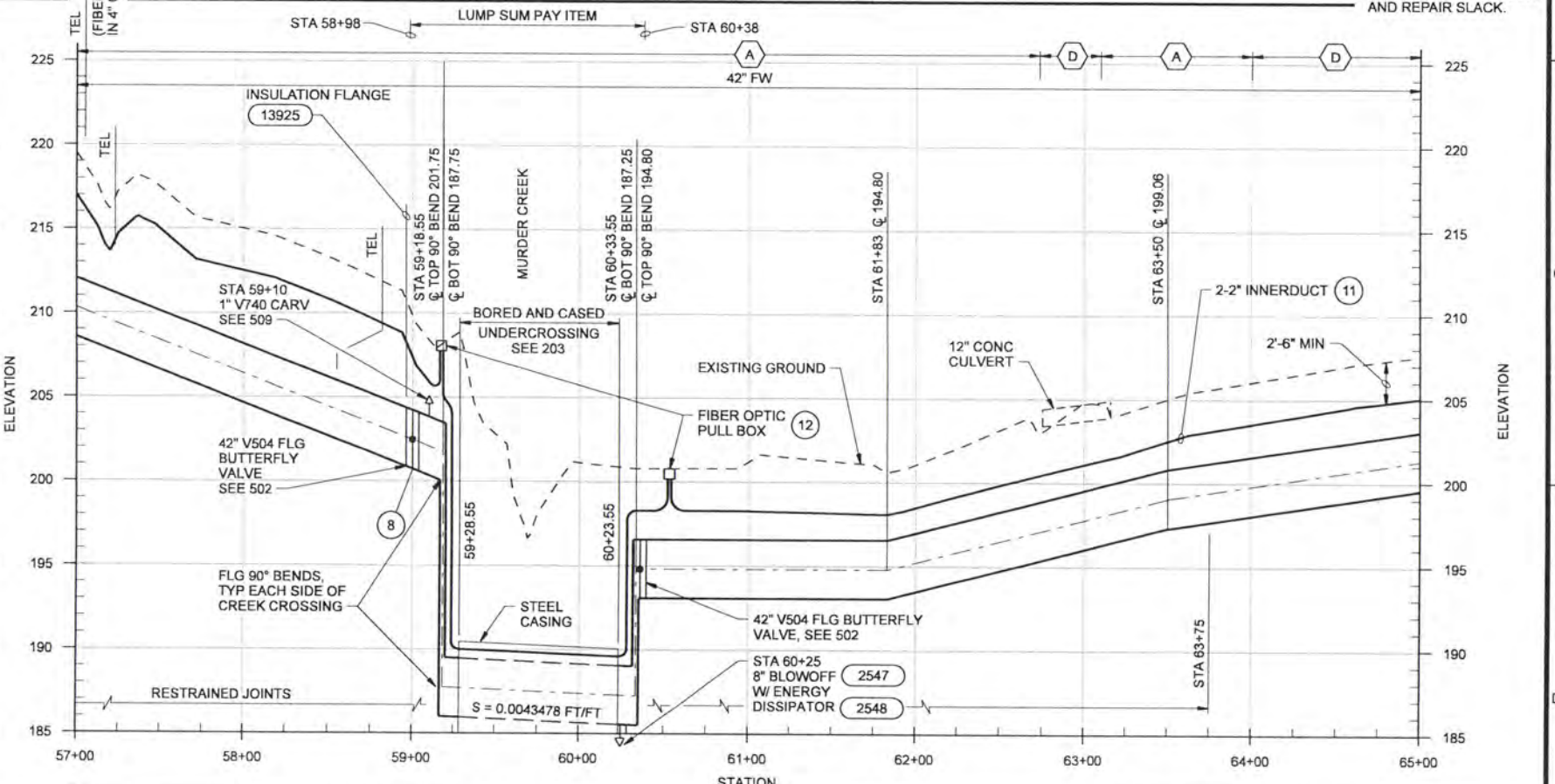
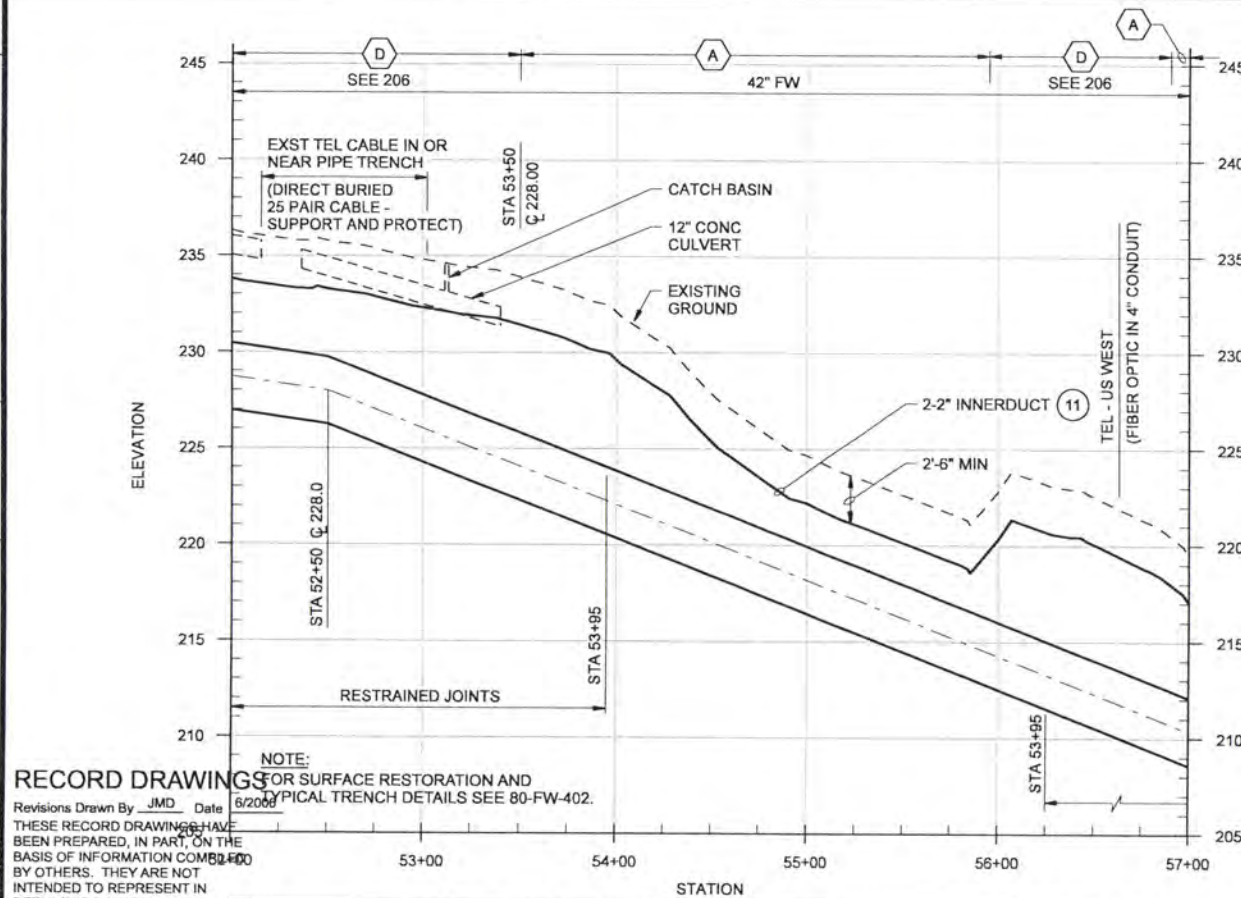


RECORD DRAWINGS

Revisions Drawn By _____ Date _____
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REFERENCE NOTES:

- ① SUPPORT, PROTECT AND/OR MOVE EXISTING UTILITY DURING CONSTRUCTION.
- ② CUT BACK ROADSIDE BANK AS REQUIRED FOR CONSTRUCTION.
- ③ REMOVE AND REPLACE GUARDRAIL AS REQUIRED FOR CONSTRUCTION.
- ④ REMOVE AND REPLACE EXISTING CULVERT AND DRIVEWAY. REPLACE CULVERT AT EXISTING LOCATION AND GRADE.
- ⑤ PROTECT EXISTING BRIDGE.
- ⑥ REMOVE AND RECONSTRUCT CATCH BASIN AND ASSOCIATED PIPING.
- ⑦ REMOVE AND REPLACE EXISTING SIGN AND POST.
- ⑧ INSULATED JOINT (13925), WITH JUMPER BOX (13814).
- ⑨ TEST STATION, TYPE PT-RA (13803), LOCATE 4 FEET FROM PIPE.
- ⑩ TEST STATION, TYPE PC-A (13813).
- ⑪ INSTALL 2-2" INNERDUCT, ONE AS SPARE, ONE WITH 48 FIBER OPTIC CABLE. IN SAME TRENCH AS 42" FW PIPE.
- ⑫ COIL A MINIMUM OF 6' FIBER OPTIC CABLE AT EACH SPLICE BOX AND EACH PULL BOX LOCATION FOR SPLICING AND REPAIR SLACK.



RECORD DRAWINGS FOR SURFACE RESTORATION AND TYPICAL TRENCH DETAILS SEE 80-FW-402.

Revisions Drawn By JMD Date 6/2006
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DSGN	JE BARNHURST	NO.	1	DATE	6/2006	REVISION	RECORD DRAWING
DR	LG McCALL	BY	JMD	CHK	WB WAGNER	APVD	CW MASSIE

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

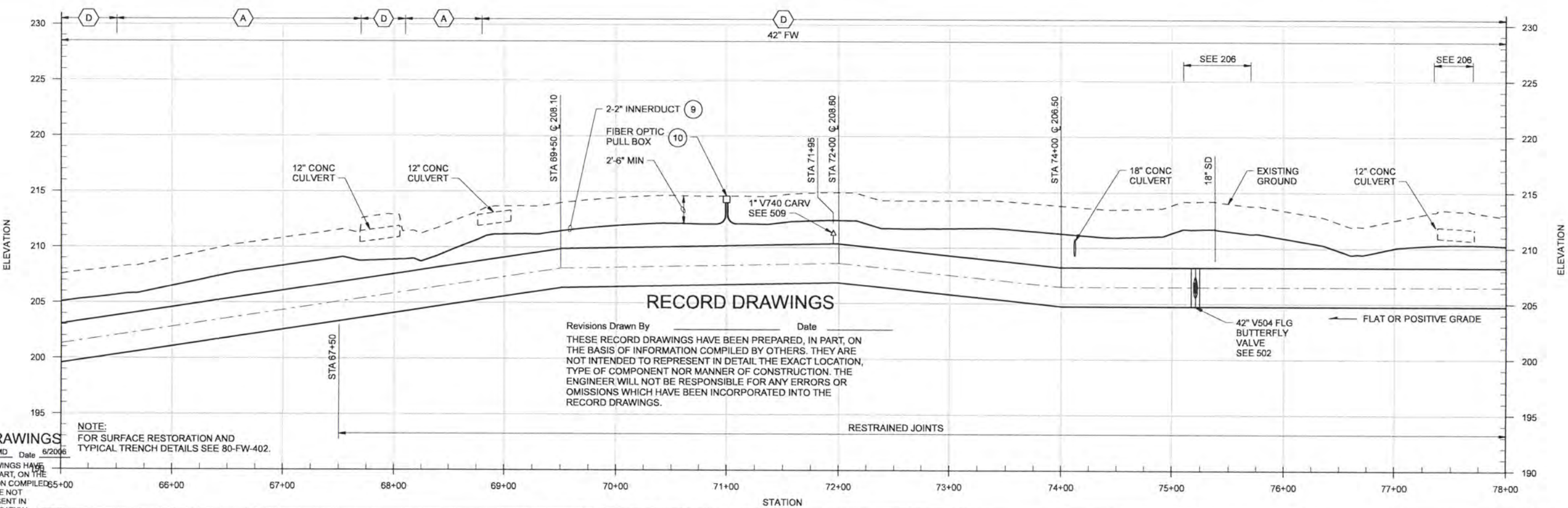
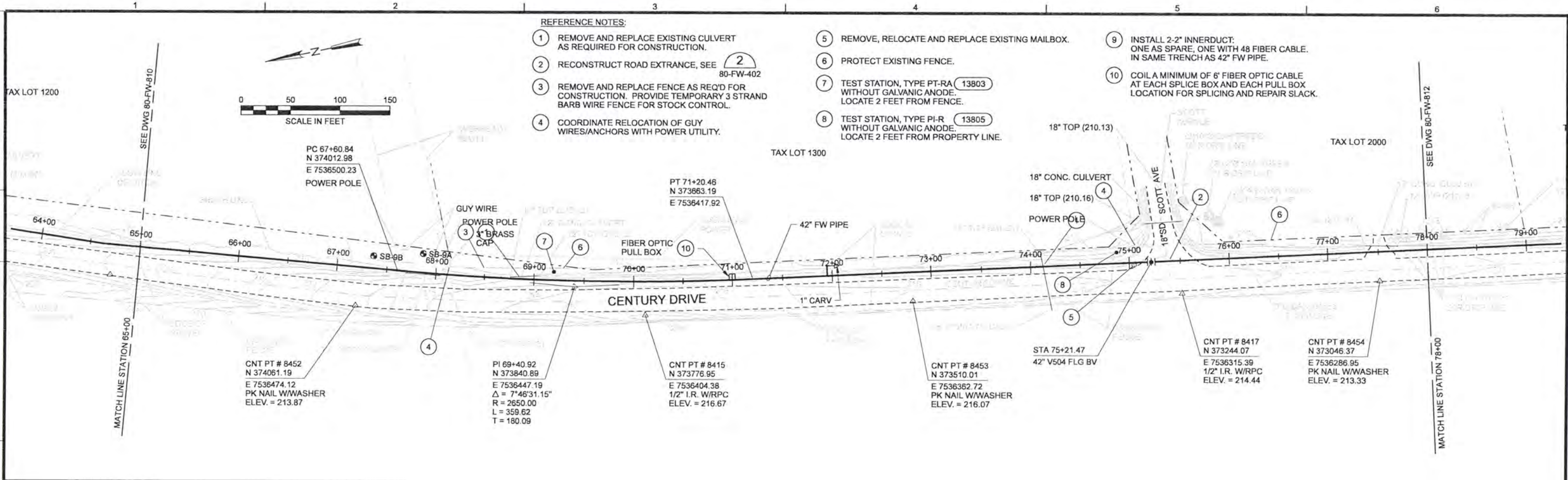


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINE
 ALBANY FW PLAN AND PROFILE
 STATION 52+00 TO STATION 65+00

SHEET	273
DWG	80-FW-810
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006

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DSGN	JE BARNHURST
DR	LG McCALL
CHK	WB WAGNER
APVD	CW MASSIE

NO.	DATE	REVISION	BY
1	6/2006	RECORD DRAWING	JMD
			CW
			APVD

VERIFY SCALE

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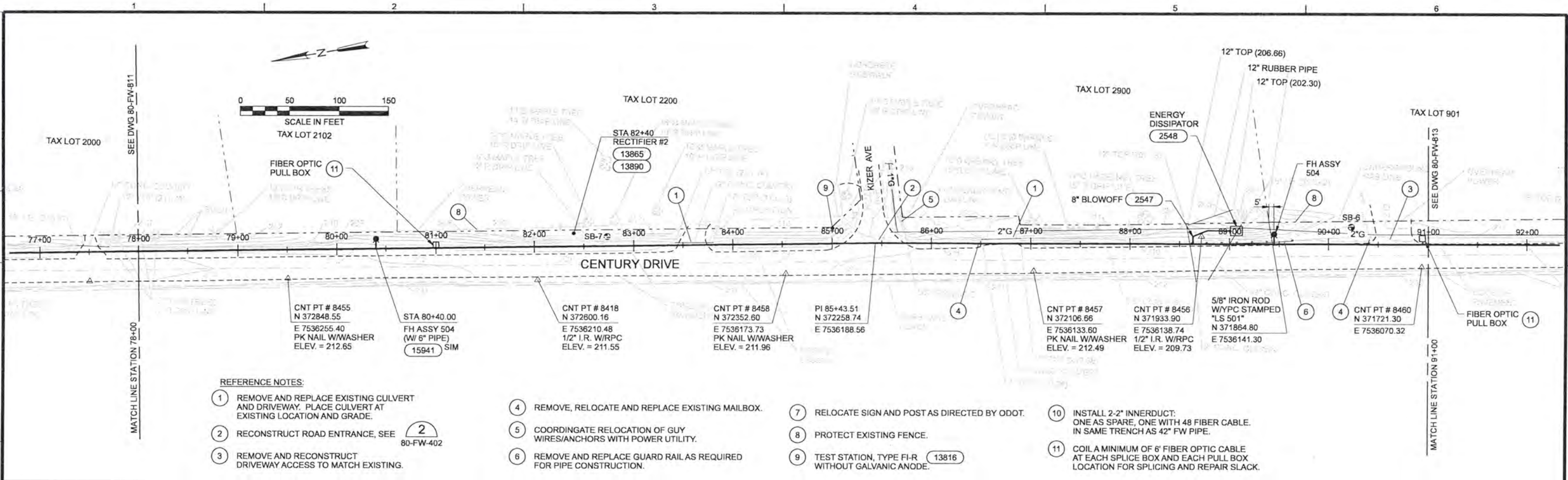
CH2MHILL

ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINE
ALBANY FW PLAN AND PROFILE
STATION 65+00 TO STATION 78+00

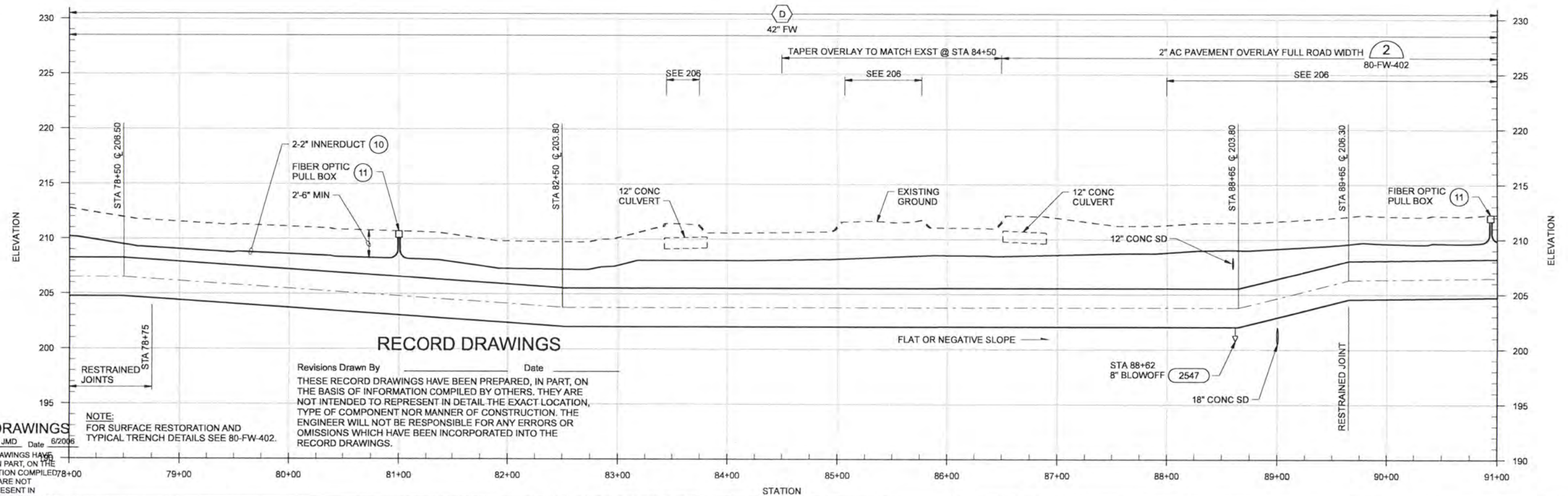
SHEET	274
DWG	80-FW-811
DATE	APRIL 2004
PROJ	170368

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REFERENCE NOTES:

- 1 REMOVE AND REPLACE EXISTING CULVERT AND DRIVEWAY. PLACE CULVERT AT EXISTING LOCATION AND GRADE.
- 2 RECONSTRUCT ROAD ENTRANCE, SEE 80-FW-402
- 3 REMOVE AND RECONSTRUCT DRIVEWAY ACCESS TO MATCH EXISTING.
- 4 REMOVE, RELOCATE AND REPLACE EXISTING MAILBOX.
- 5 COORDINATE RELOCATION OF GUY WIRES/ANCHORS WITH POWER UTILITY.
- 6 REMOVE AND REPLACE GUARD RAIL AS REQUIRED FOR PIPE CONSTRUCTION.
- 7 RELOCATE SIGN AND POST AS DIRECTED BY ODOT.
- 8 PROTECT EXISTING FENCE.
- 9 TEST STATION, TYPE FI-R 13816
- 10 INSTALL 2-2" INNERDUCT. ONE AS SPARE, ONE WITH 48 FIBER CABLE. IN SAME TRENCH AS 42" FW PIPE.
- 11 COIL A MINIMUM OF 6' FIBER OPTIC CABLE AT EACH SPLICE BOX AND EACH PULL BOX LOCATION FOR SPLICING AND REPAIR SLACK.



RECORD DRAWINGS

Revisions Drawn By _____ Date _____
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NOTE:
 FOR SURFACE RESTORATION AND TYPICAL TRENCH DETAILS SEE 80-FW-402.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/20/06
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DSGN	JE BARNHURST	NO.	1	DATE	6/20/06	REVISION	RECORD DRAWING
DR	LG McCALL	BY	JMD	CHK	WB WAGNER	APVD	CW MASSIE

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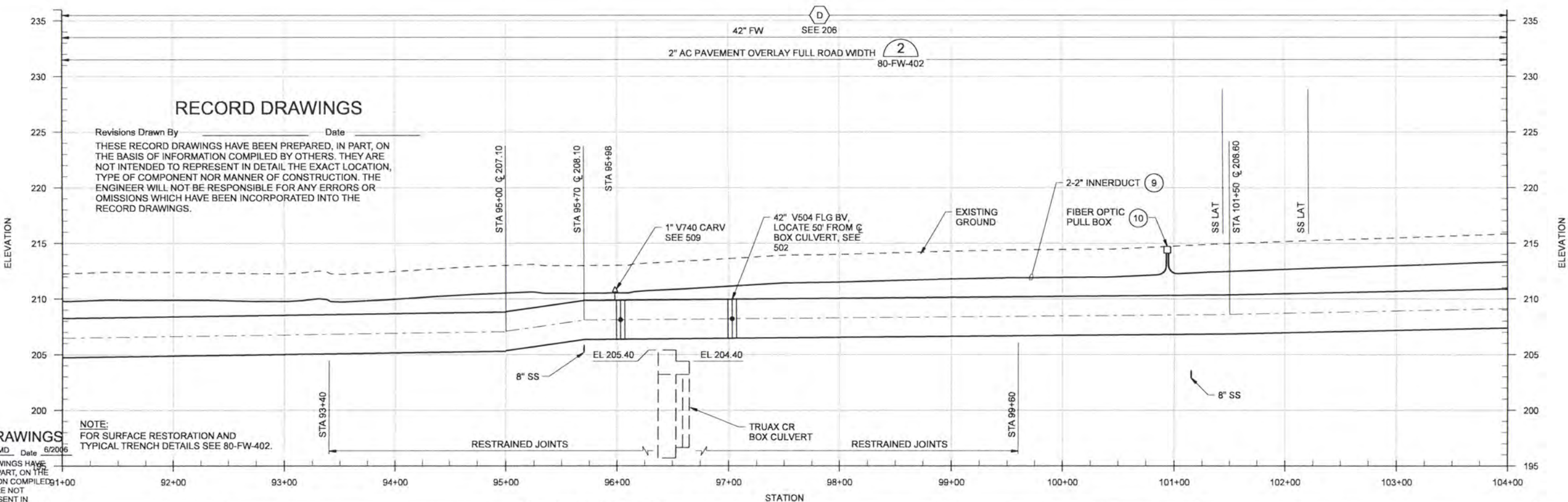
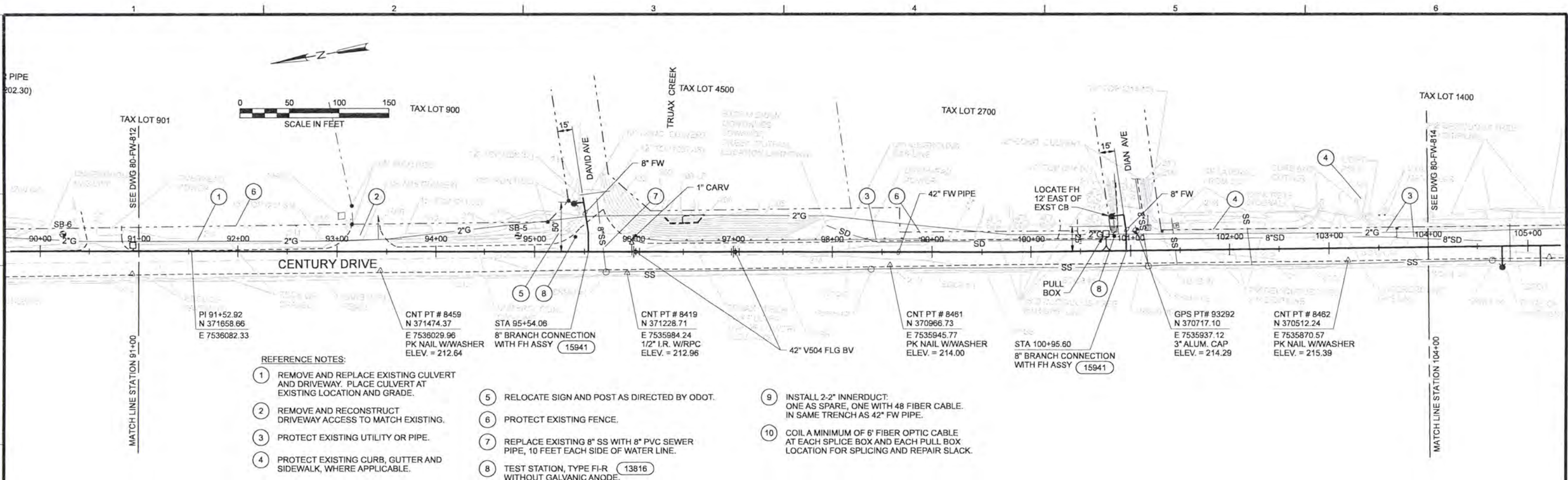
CH2MHILL

ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINE
 ALBANY FW PLAN AND PROFILE
 STATION 78+00 TO STATION 91+00

SHEET	275
DWG	80-FW-812
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

Revisions Drawn By JMD Date 6/20/06

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DSGN	JE BARNHURST
DR	LG McCALL
CHK	WB WAGNER
APVD	CW MASSIE

NO.	DATE	REVISION
1	6/20/06	RECORD DRAWING

BY	JMD	APVD	CWM
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VERIFY SCALE

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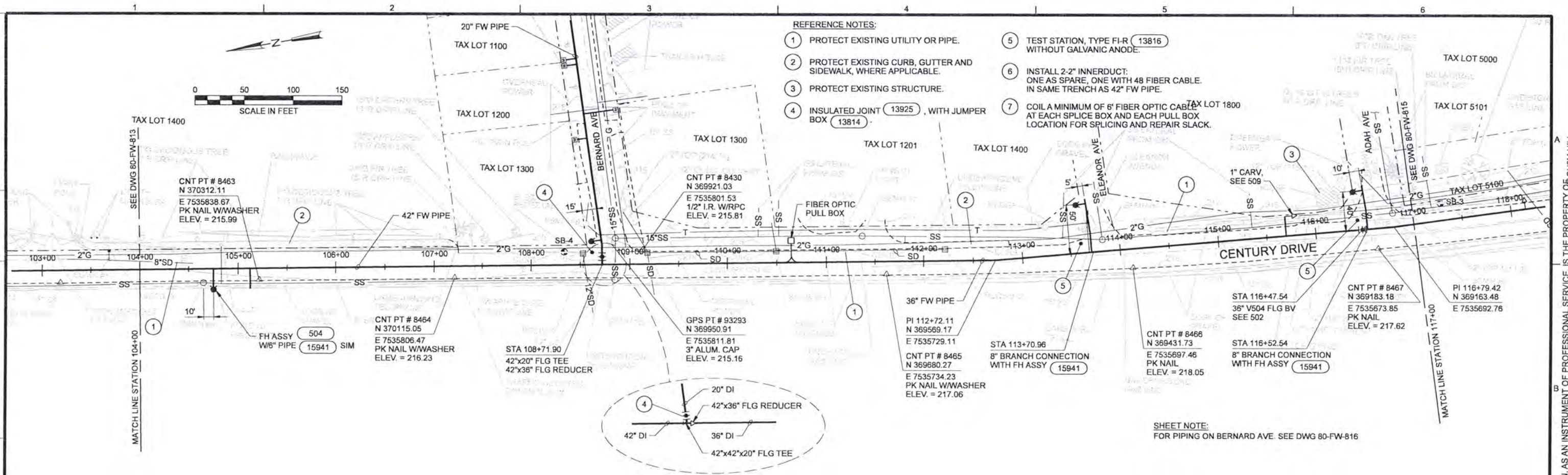
ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINE

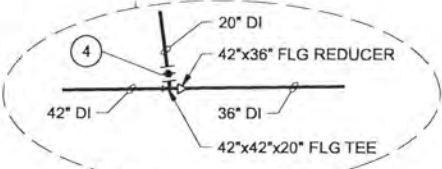
ALBANY FW PLAN AND PROFILE
STATION 91+00 TO STATION 104+00

SHEET	276
DWG	80-FW-813
DATE	APRIL 2004
PROJ	170368

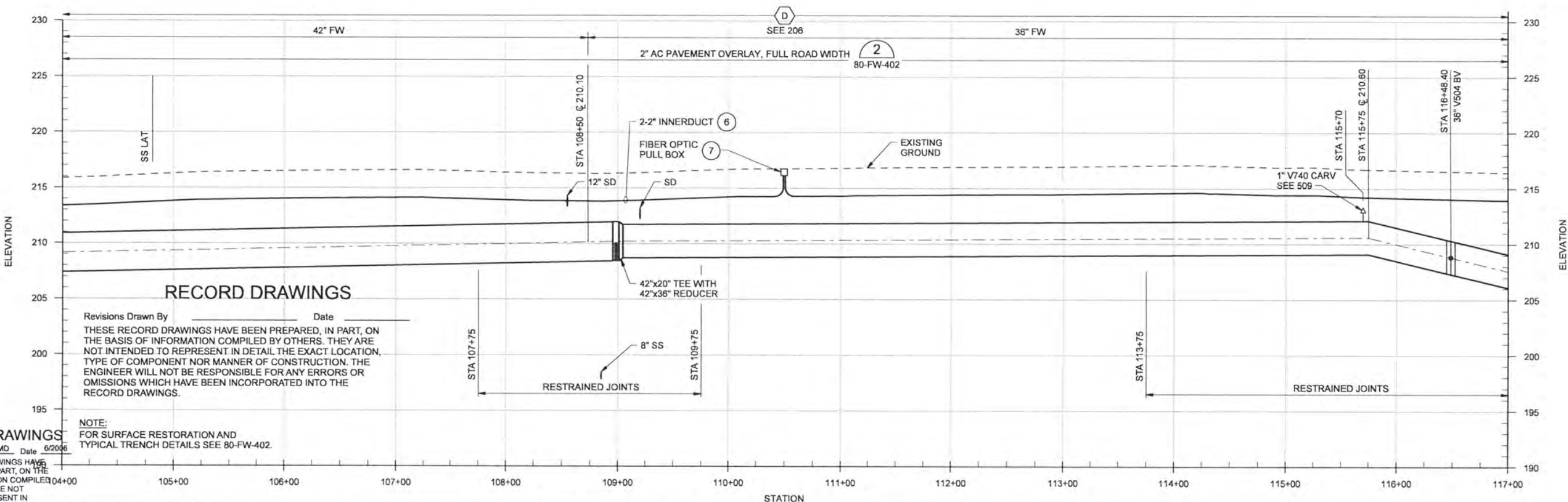
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- REFERENCE NOTES:
- 1 PROTECT EXISTING UTILITY OR PIPE.
 - 2 PROTECT EXISTING CURB, GUTTER AND SIDEWALK, WHERE APPLICABLE.
 - 3 PROTECT EXISTING STRUCTURE.
 - 4 INSULATED JOINT (13925), WITH JUMPER BOX (13814).
 - 5 TEST STATION, TYPE F-I-R (13816) WITHOUT GALVANIC ANODE.
 - 6 INSTALL 2-2" INNERDUCT: ONE AS SPARE, ONE WITH 48 FIBER CABLE. IN SAME TRENCH AS 42" FW PIPE.
 - 7 COIL A MINIMUM OF 6' FIBER OPTIC CABLE AT EACH SPLICE BOX AND EACH PULL BOX LOCATION FOR SPlicing AND REPAIR SLACK.



SHEET NOTE:
FOR PIPING ON BERNARD AVE. SEE DWG 80-FW-816



RECORD DRAWINGS

Revisions Drawn By _____ Date _____

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NOTE:
FOR SURFACE RESTORATION AND TYPICAL TRENCH DETAILS SEE 80-FW-402.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/20/06

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DSGN	JE BARNHURST
DR	LG McCALL
CHK	WB WAGNER
APVD	CW MASSIE

NO.	DATE	REVISION
1	6/20/06	RECORD DRAWING

VERIFY SCALE
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

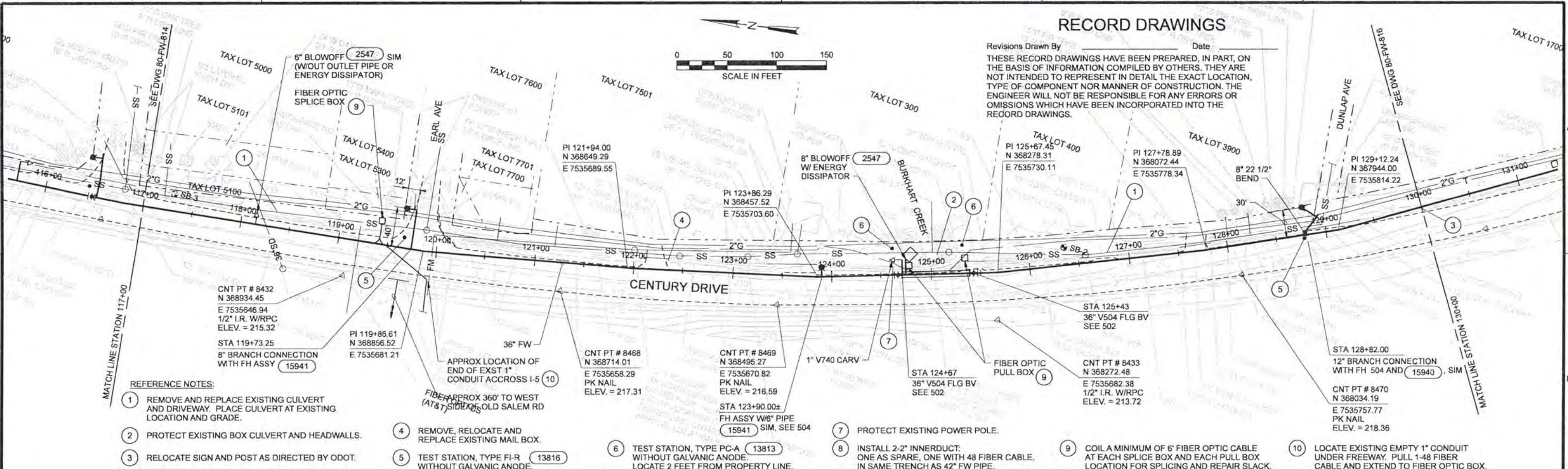
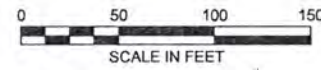
FINISHED WATER TRANSMISSION PIPELINE
ALBANY FW PLAN AND PROFILE
STATION 104+00 TO STATION 117+00

SHEET	277
DWG	80-FW-814
DATE	APRIL 2004
PROJ	170368

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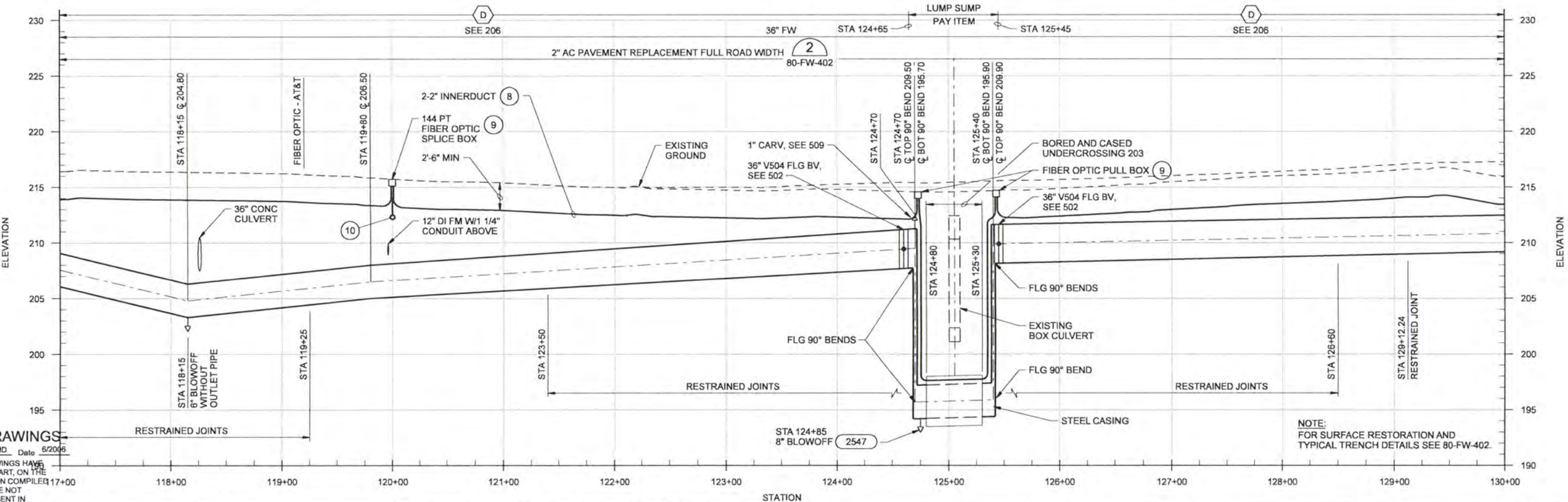
RECORD DRAWINGS

Revisions Drawn By _____ Date _____
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REFERENCE NOTES:

- 1 REMOVE AND REPLACE EXISTING CULVERT AND DRIVEWAY. PLACE CULVERT AT EXISTING LOCATION AND GRADE.
- 2 PROTECT EXISTING BOX CULVERT AND HEADWALLS.
- 3 RELOCATE SIGN AND POST AS DIRECTED BY ODOT.
- 4 REMOVE, RELOCATE AND REPLACE EXISTING MAIL BOX.
- 5 TEST STATION, TYPE FI-R WITHOUT GALVANIC ANODE.
- 6 TEST STATION, TYPE PC-A WITHOUT GALVANIC ANODE. LOCATE 2 FEET FROM PROPERTY LINE.
- 7 PROTECT EXISTING POWER POLE.
- 8 INSTALL 2-2" INNERDUCT: ONE AS SPARE, ONE WITH 48 FIBER CABLE. IN SAME TRENCH AS 42" FW PIPE.
- 9 COIL A MINIMUM OF 6' FIBER OPTIC CABLE AT EACH SPLICE BOX AND EACH PULL BOX LOCATION FOR SPLICING AND REPAIR SLACK.
- 10 LOCATE EXISTING EMPTY 1" CONDUIT UNDER FREEWAY. PULL 1-48 FIBER CABLE AND EXTEND TO FIBER OPTIC BOX.



RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	JE BARNHURST
DR	LG McCALL
CHK	WB WAGNER
APVD	CW MASSIE
NO.	1
DATE	6/2006
REVISION	RECORD DRAWING

VERIFY SCALE
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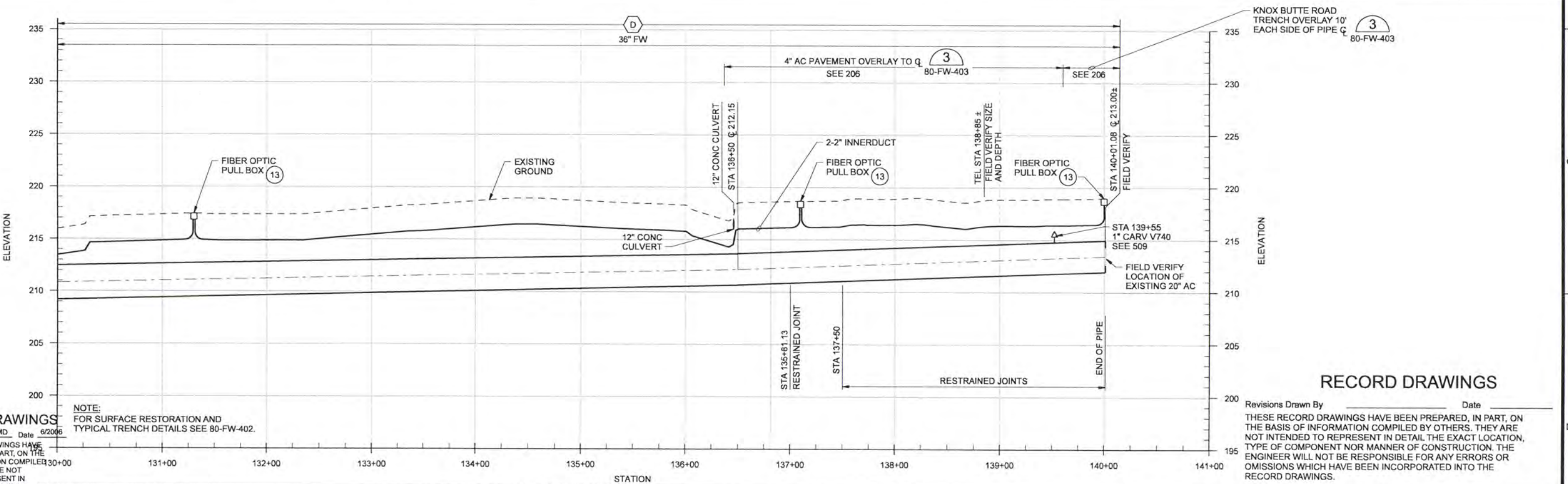
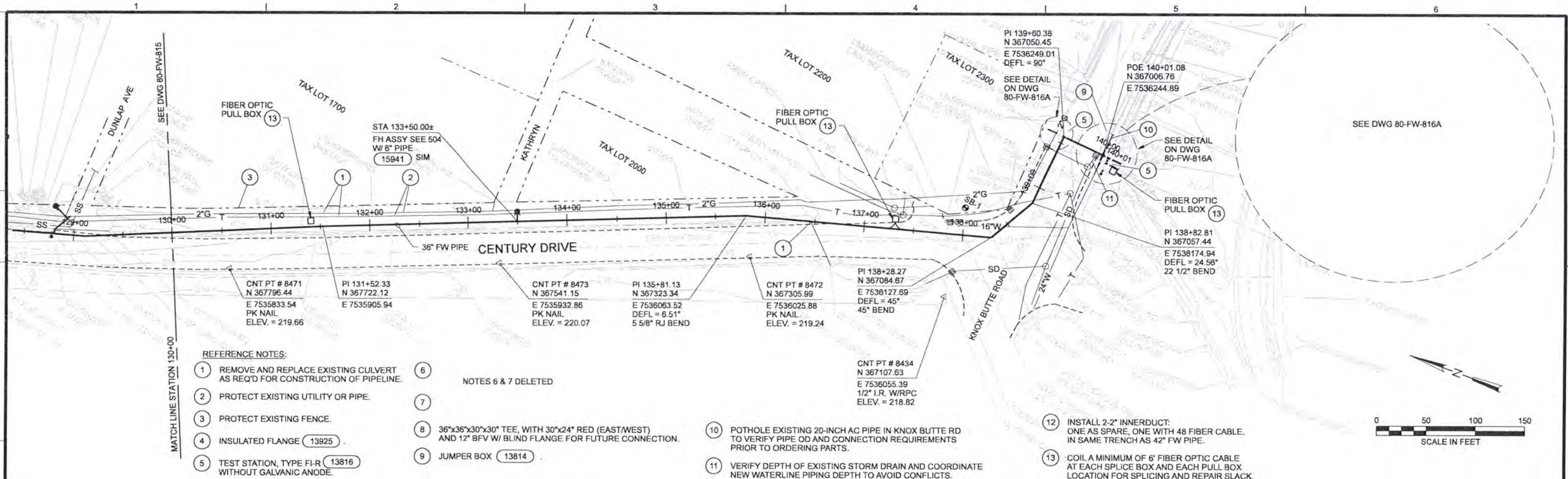


ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINE
 ALBANY FW PLAN AND PROFILE
 STATION 117+00 TO STATION 130+00

SHEET	278
DWG	80-FW-815
DATE	APRIL 2004
PROJ	170368

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RECORD DRAWINGS

Revisions Drawn By JMD Date 6/20/06

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NO.	DATE	REVISION
2	05/04/06	RFQ NO. 1
1	06/20/06	RECORD DRAWING

DSGN	JE BARNHURST	VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DR	LG McCALL	0	1"
CHK	WB WAGNER	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	
APVD	CW MASSIE		

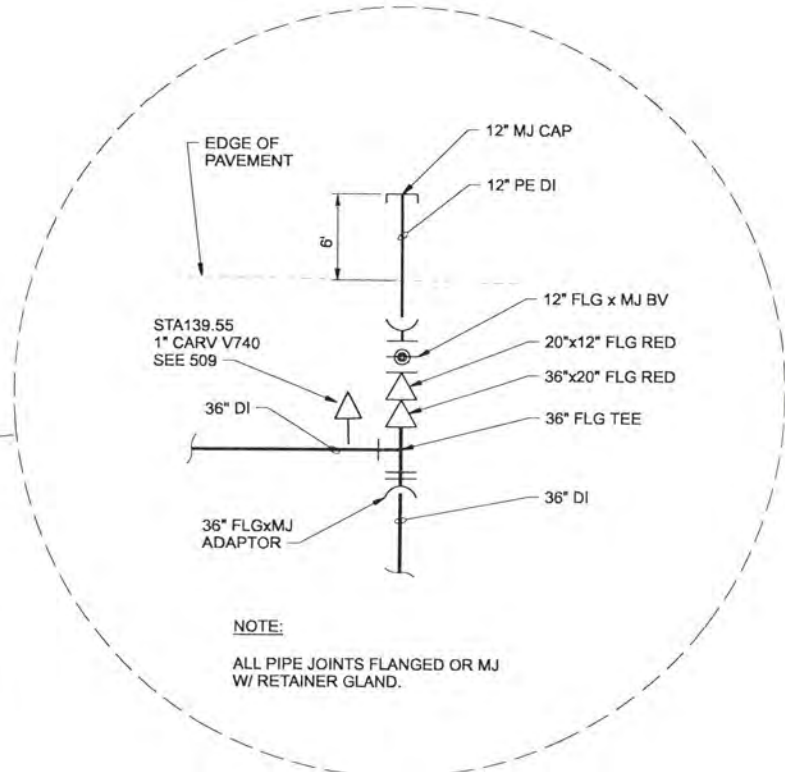
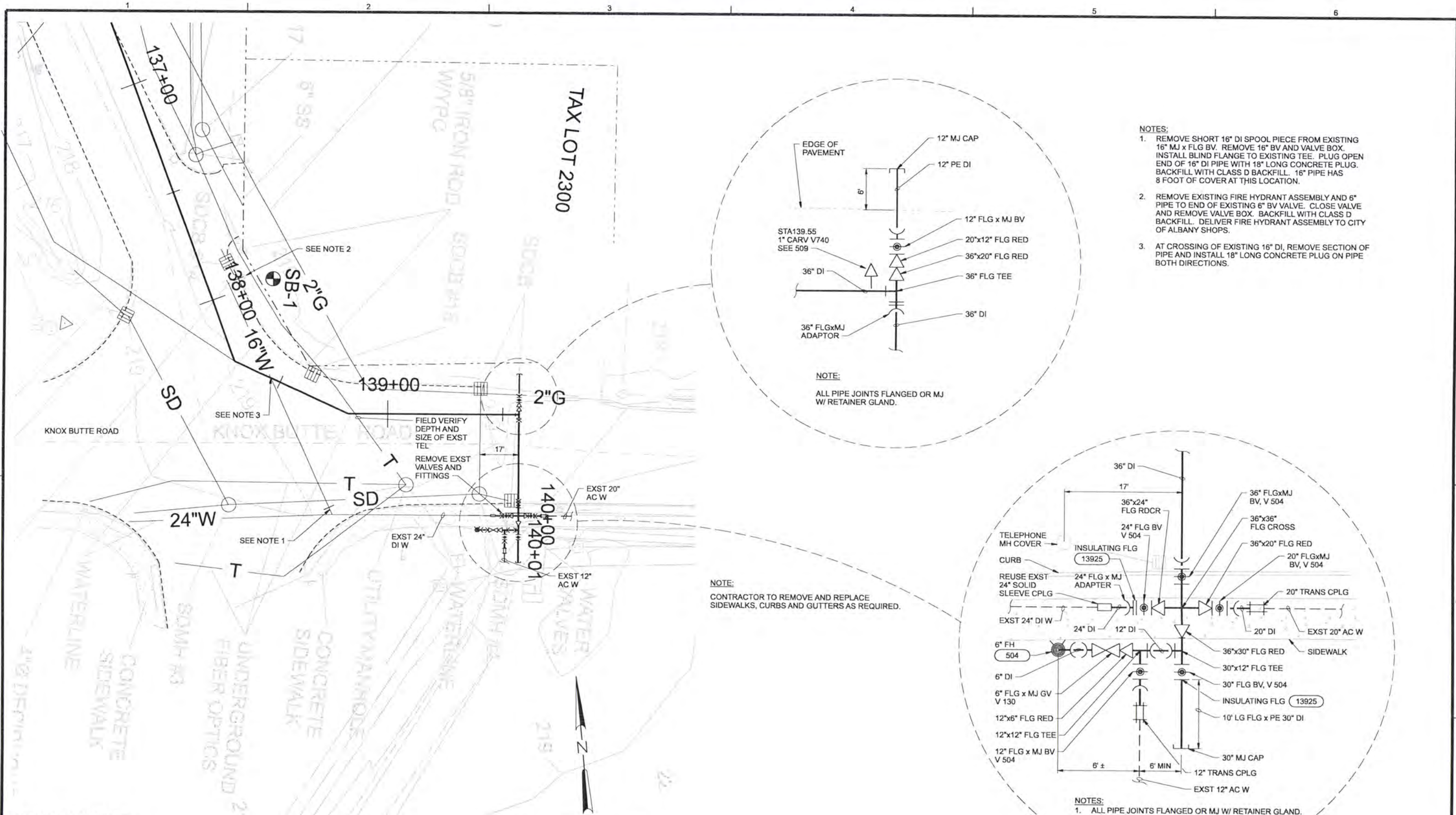
CH2MHILL

ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINE
ALBANY FW PLAN AND PROFILE
STATION 130+00 TO STATION 139+00

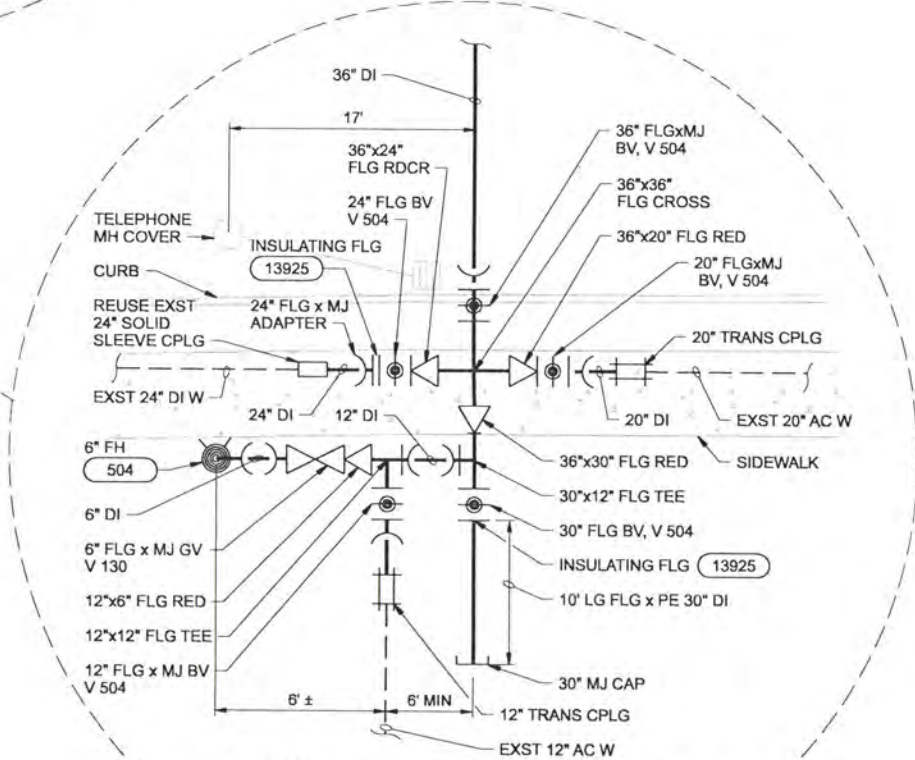
SHEET	279
DWG	80-FW-816
DATE	APRIL 2004
PROJ	170368

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- NOTES:**
1. REMOVE SHORT 16" DI SPOOL PIECE FROM EXISTING 16" MJ x FLG BV. REMOVE 16" BV AND VALVE BOX. INSTALL BLIND FLANGE TO EXISTING TEE. PLUG OPEN END OF 16" DI PIPE WITH 18" LONG CONCRETE PLUG. BACKFILL WITH CLASS D BACKFILL. 16" PIPE HAS 8 FOOT OF COVER AT THIS LOCATION.
 2. REMOVE EXISTING FIRE HYDRANT ASSEMBLY AND 6" PIPE TO END OF EXISTING 6" BV VALVE. CLOSE VALVE AND REMOVE VALVE BOX. BACKFILL WITH CLASS D BACKFILL. DELIVER FIRE HYDRANT ASSEMBLY TO CITY OF ALBANY SHOPS.
 3. AT CROSSING OF EXISTING 16" DI, REMOVE SECTION OF PIPE AND INSTALL 18" LONG CONCRETE PLUG ON PIPE BOTH DIRECTIONS.

NOTE:
ALL PIPE JOINTS FLANGED OR MJ W/ RETAINER GLAND.



- NOTES:**
1. ALL PIPE JOINTS FLANGED OR MJ W/ RETAINER GLAND.
 2. FOR ALL VALVES, SEE 502

NOTE:
CONTRACTOR TO REMOVE AND REPLACE SIDEWALKS, CURBS AND GUTTERS AS REQUIRED.

RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	GG SILBERNAGEL				
DR	LG McCALL				
CHK	Checked By	6/2006	RECORD DRAWING	6/2006	6/2006
APVD	CW MASSIE	NO.	DATE	REVISION	BY

VERIFY SCALE
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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

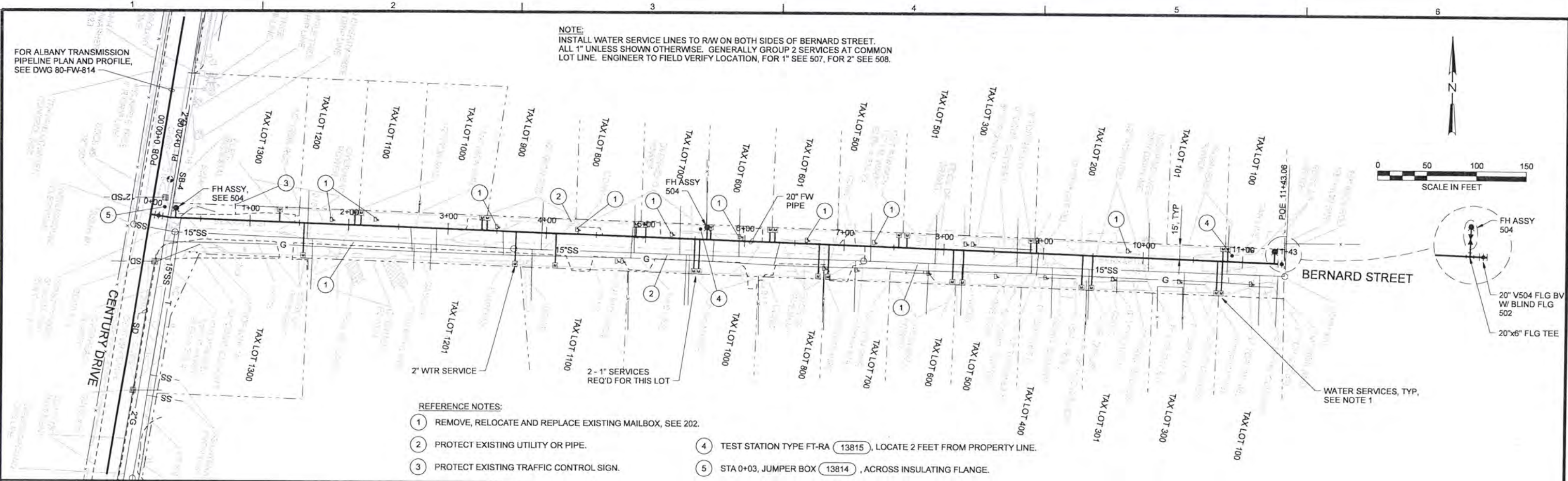
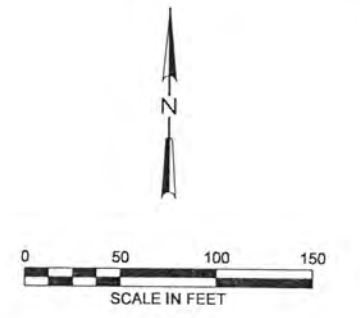
FINISHED WATER TRANSMISSION PIPELINE
**KNOX BUTTE
CONNECTION MODIFICATION**

SHEET	279A
DWG	80-FW-816A
DATE	APRIL 2004
PROJ	170368

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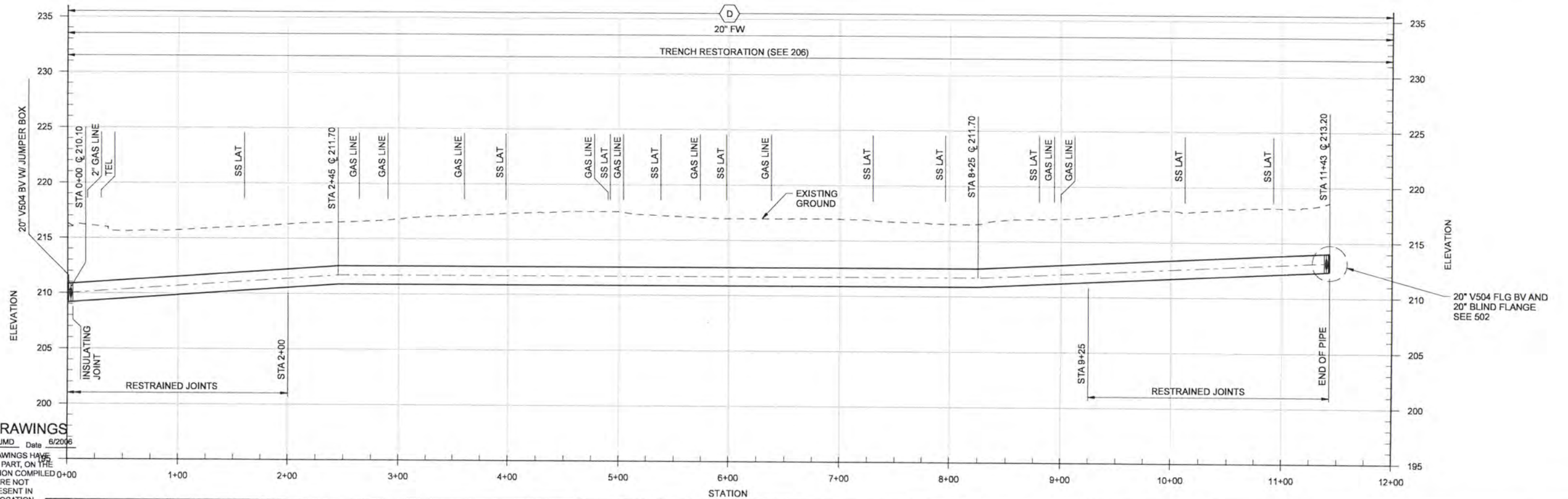
FOR ALBANY TRANSMISSION PIPELINE PLAN AND PROFILE, SEE DWG 80-FW-814

NOTE:
INSTALL WATER SERVICE LINES TO RW ON BOTH SIDES OF BERNARD STREET.
ALL 1" UNLESS SHOWN OTHERWISE. GENERALLY GROUP 2 SERVICES AT COMMON LOT LINE. ENGINEER TO FIELD VERIFY LOCATION, FOR 1" SEE 507, FOR 2" SEE 508.



REFERENCE NOTES:

- ① REMOVE, RELOCATE AND REPLACE EXISTING MAILBOX, SEE 202.
- ② PROTECT EXISTING UTILITY OR PIPE.
- ③ PROTECT EXISTING TRAFFIC CONTROL SIGN.
- ④ TEST STATION TYPE FT-RA (13815), LOCATE 2 FEET FROM PROPERTY LINE.
- ⑤ STA 0+03, JUMPER BOX (13814), ACROSS INSULATING FLANGE.



RECORD DRAWINGS

Revisions Drawn By JMD Date 6/2006
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DSGN	JE BARNHURST				
DR	LG McCALL				
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF
APVD	CW MASSIE	NO.	DATE	BY	APVD

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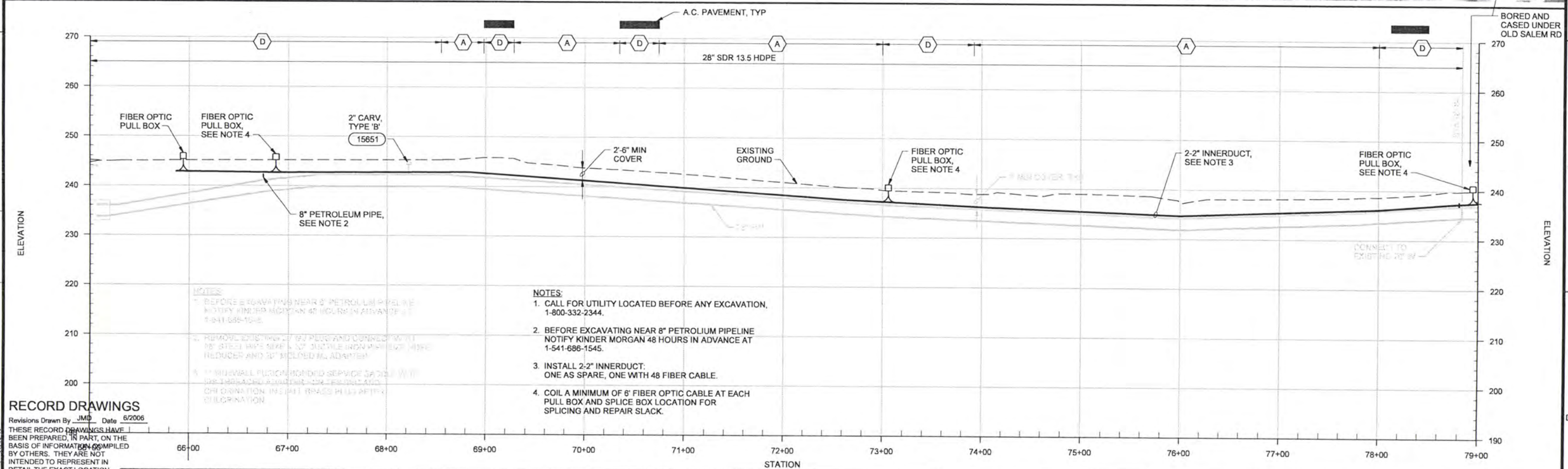
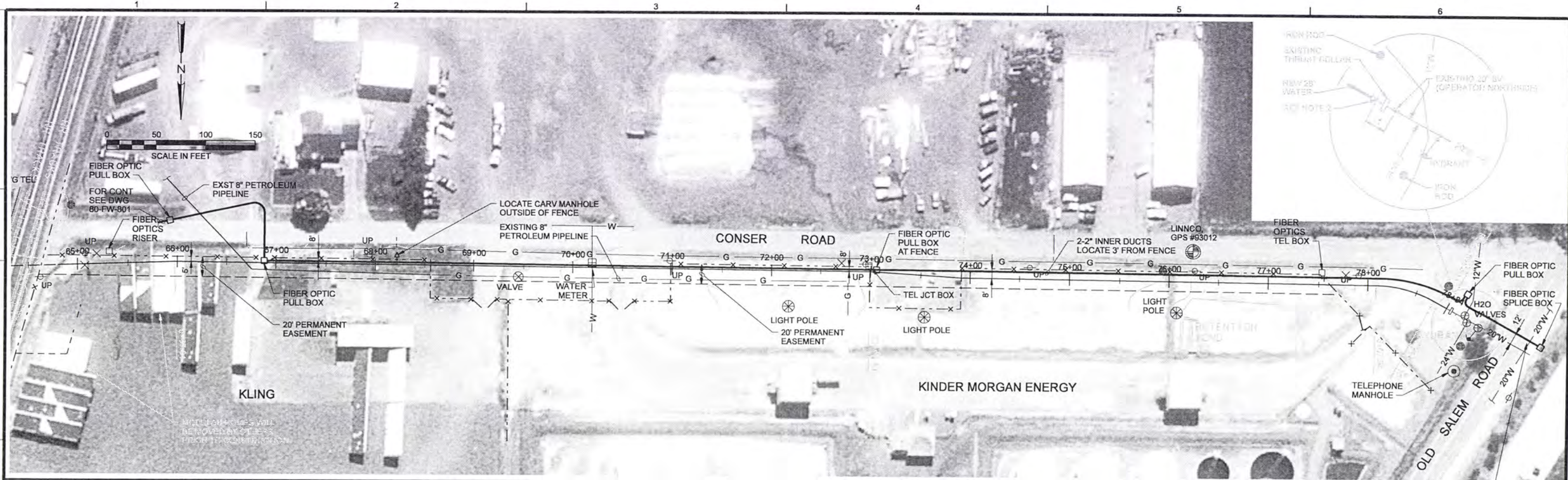


ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINE
BERNARD STREET FW PLAN AND PROFILE
STATION 0+00 TO STATION 11+43

SHEET	280
DWG	80-FW-817
DATE	APRIL 2004
PROJ	170368

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NOTES:

- BEFORE EXCAVATING NEAR 8" PETROLEUM PIPELINE NOTIFY KINDER MORGAN 48 HOURS IN ADVANCE AT 1-841-686-1045.
- BEFORE EXCAVATING NEAR 8" PETROLEUM PIPELINE NOTIFY KINDER MORGAN 48 HOURS IN ADVANCE AT 1-541-686-1545.
- INSTALL 2-2" INNERDUCT, ONE AS SPARE, ONE WITH 48 FIBER CABLE.
- COIL A MINIMUM OF 6' FIBER OPTIC CABLE AT EACH PULL BOX AND SPLICE BOX LOCATION FOR SPLICING AND REPAIR SLACK.

RECORD DRAWINGS

Revisions Drawn By **JMD** Date **6/2006**

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DSGN	G SILBERNAGEL
DR	L McCALL
CHK	J McWADE
APVD	CW MASSIE

NO.	1	DATE	6/2006	REVISION	RECORD DRAWING
BY	JMD	DATE	6/2006	REVISION	RECORD DRAWING

VERIFY SCALE

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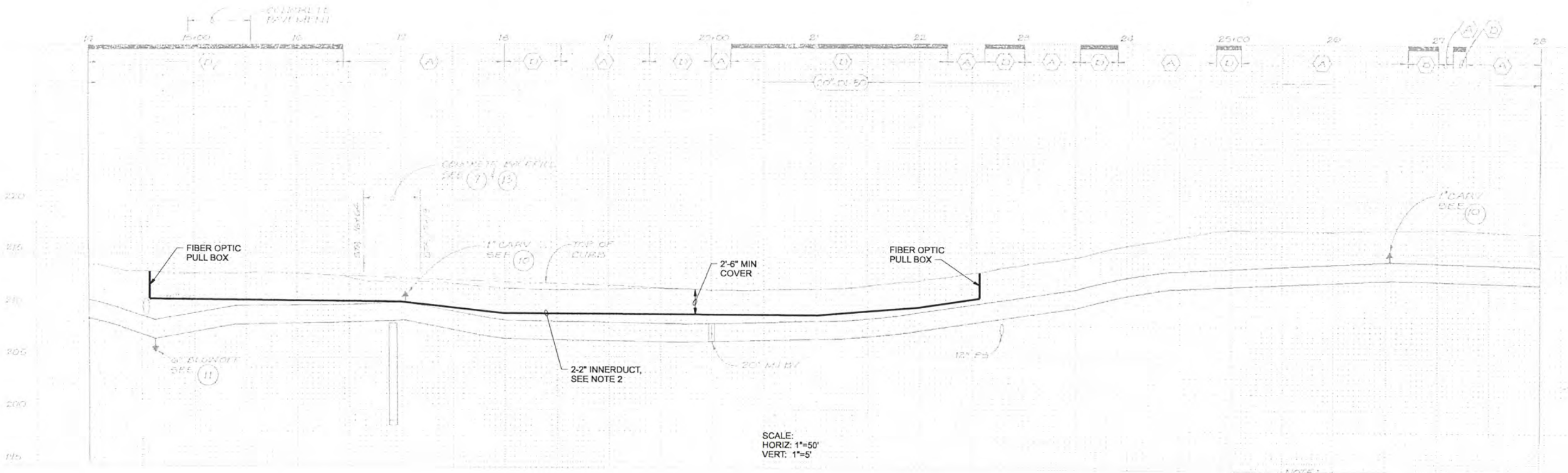
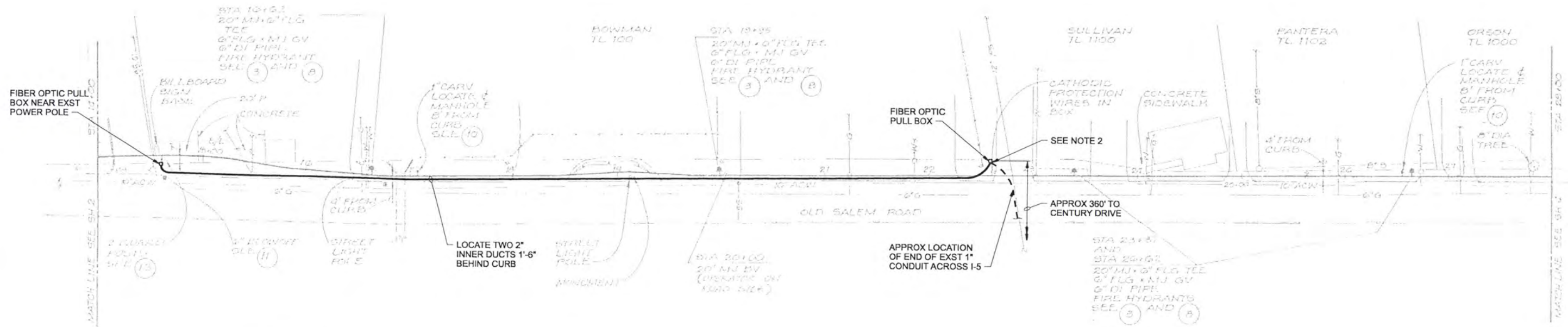
CH2MHILL

ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FIBER OPTIC PLAN AND PROFILE
CONSER ROAD

SHEET	1 OF 2
DWG	
DATE	APRIL 2004
PROJ	170368

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DSGN	G SILBERNAGEL				
DR	L McCALL				
CHK	J McWADE	1	6/2006	REVISION	DRAWING
APVD	CW MASSIE	NO.	DATE	REVISION	BY

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

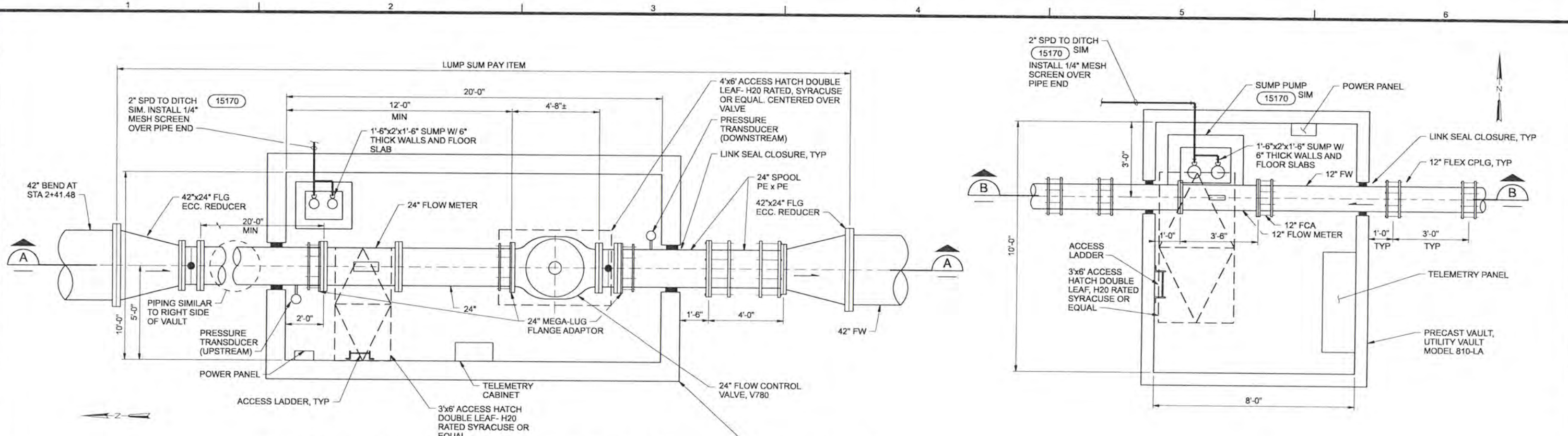
FIBER OPTIC PLAN AND PROFILE
 OLD SALEM ROAD

SHEET	2 OF 2
DWG	
DATE	APRIL 2004
PROJ	170368

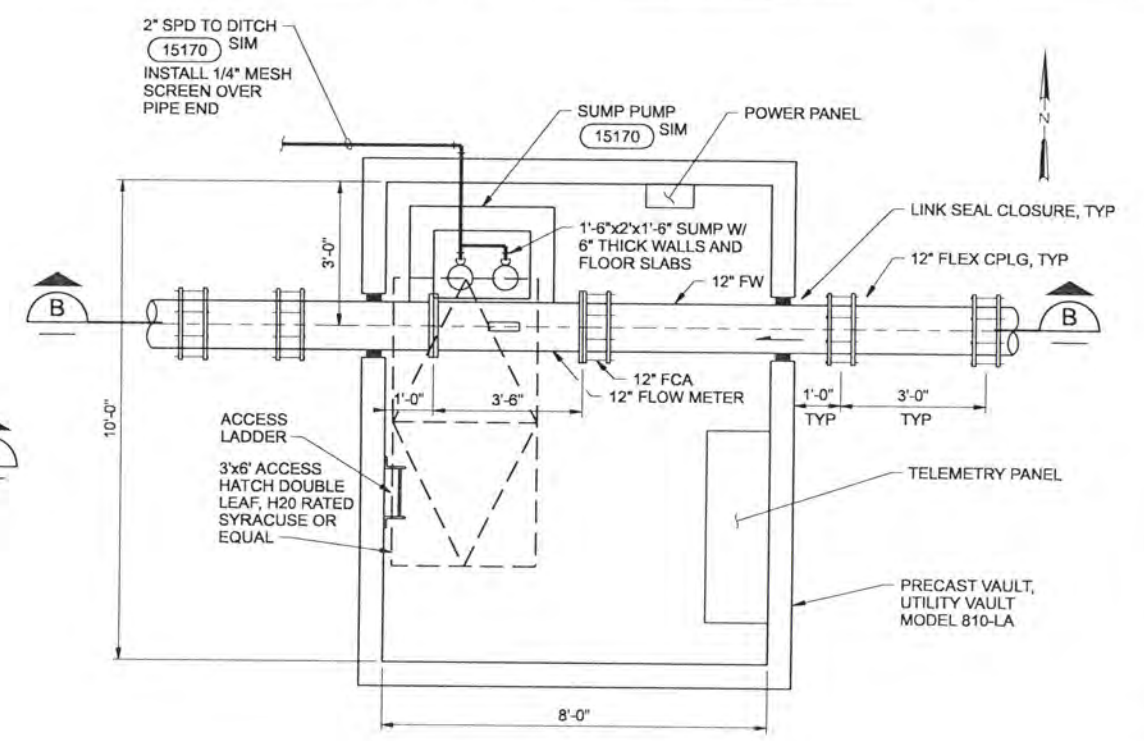
NOTES:

1. CALL FOR UTILITY LOCATES BEFORE EXCAVATION, 1-800-332-2344.
2. LOCATE WEST END OF EXISTING 1" CONDUIT (EMPTY) UNDER FREEWAY AND EXTEND TO FIBER OPTIC PULL BOX.
3. INSTALL 2-2" INNERDUCT, ONE AS SPARE, ONE WITH 48 FIBER CABLE.

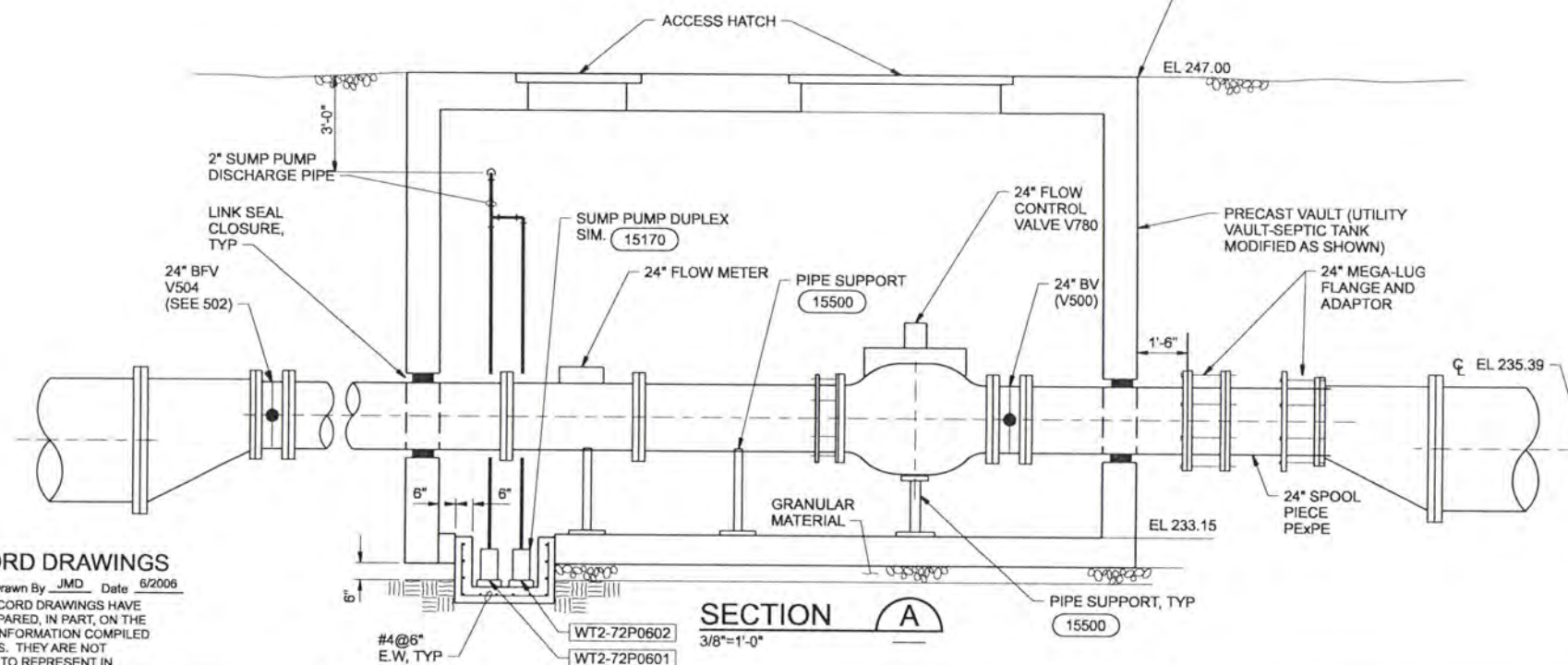
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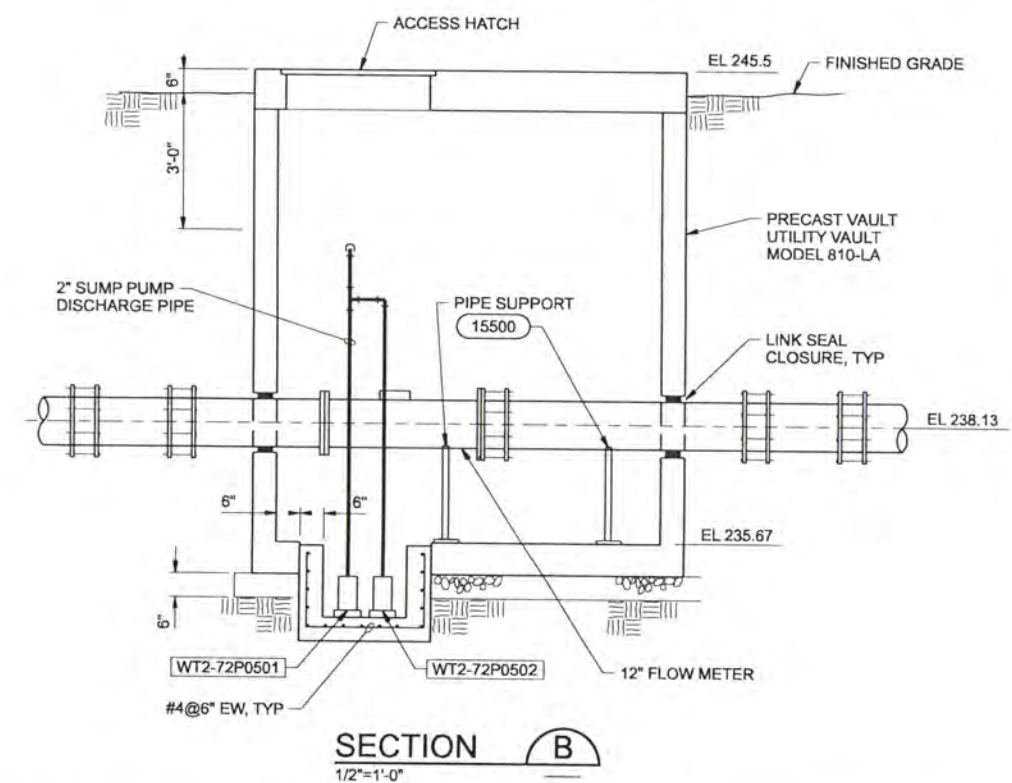
ALBANY METER/FLOW CONTROL VALVE VAULT
3/8"=1'-0" 1
80-FW-806



MILLERSBURG METER VAULT
1/2"=1'-0" 2
80-FW-801
80-FW-806



SECTION A
3/8"=1'-0"



SECTION B
1/2"=1'-0"

RECORD DRAWINGS

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DSGN	JE BARNHURST						
DR	DL KING						
CHK	WB WAGNER	6/2006	RECORD DRAWING	JMD	RCF		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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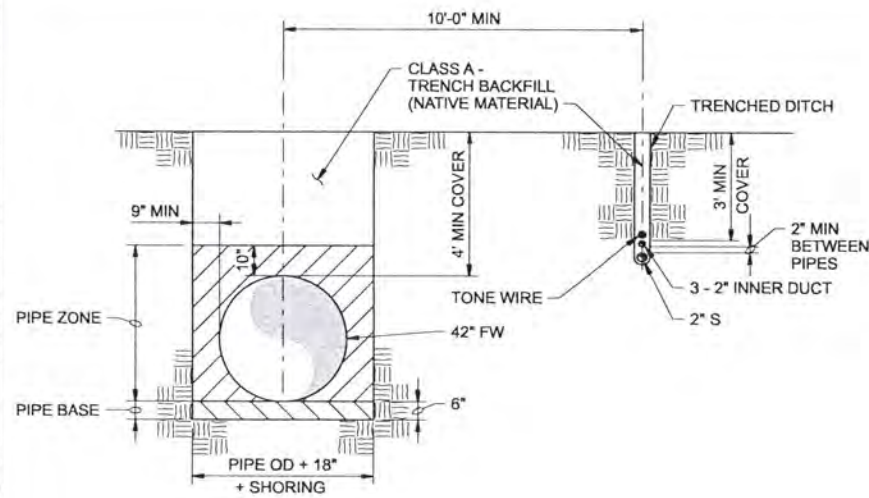
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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

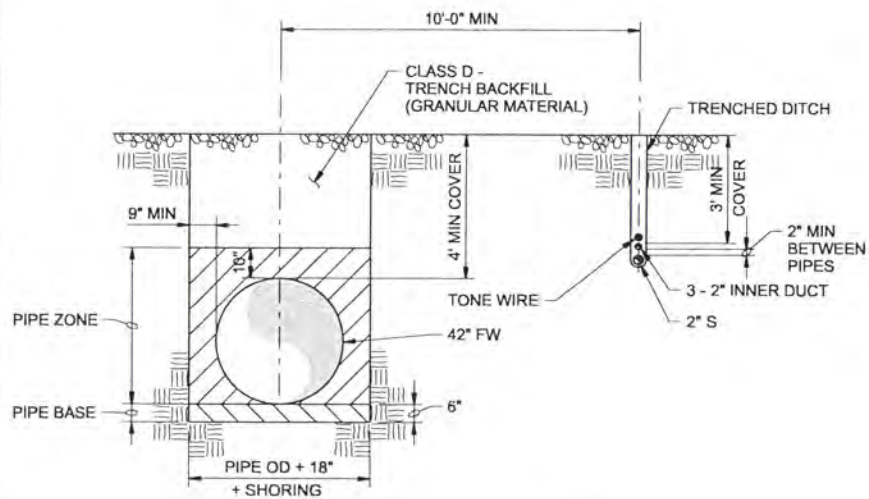
FINISHED WATER TRANSITION PIPELINES
FW FLOW CONTROL METER
VAULTS

SHEET	281
DWG	80-FW-401
DATE	APRIL 2004
PROJ	170368

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SEEDDED SURFACING



GRAVEL SURFACING

ALBANY/MILLERSBURG FW PIPE TRENCH

3/8"=1'-0"

1

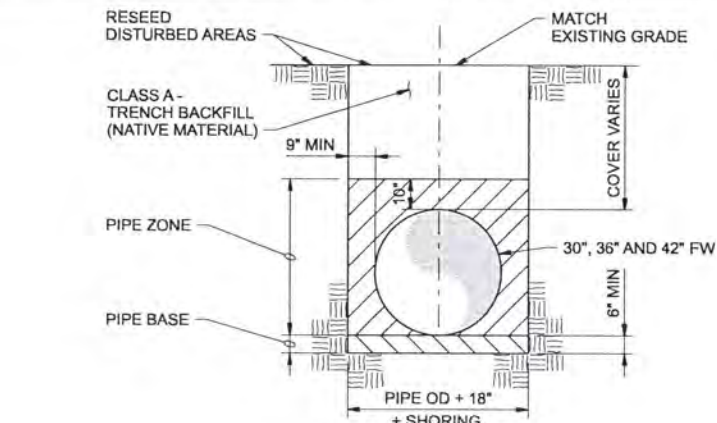
80-FW-801
80-FW-802
80-FW-803
80-FW-804
80-FW-805

RECORD DRAWINGS

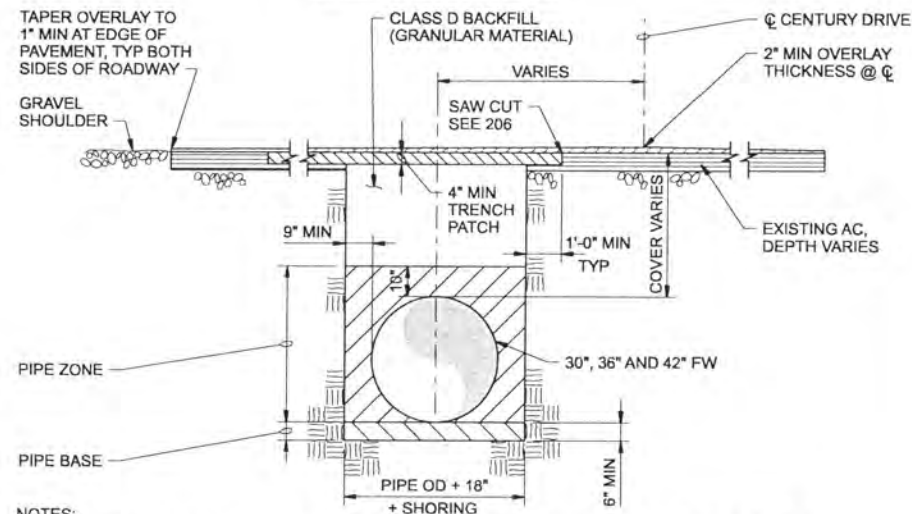
Revisions Drawn By JMD Date 6/2006

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DSGN	GG SILBERNAGEL				
DR	LG McCALL				
CHK	WB WAGNER	1	6/2006	RECORD DRAWING	JMD
APVD	CW MASSIE	NO.	DATE	REVISION	BY

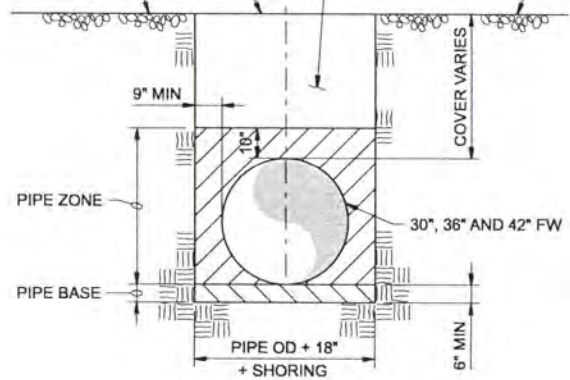


SEEDDED SURFACING



AC PAVEMENT

REMOVE EXCAVATED MATERIAL FROM ADJACENT GRAVEL SURFACING AND RESURFACE WITH GRANULAR MATERIAL. MATCH EXISTING GRADE. CLASS D BACKFILL (GRANULAR MATERIAL). EXISTING GRAVEL SHOULDER OR DRIVEWAY.



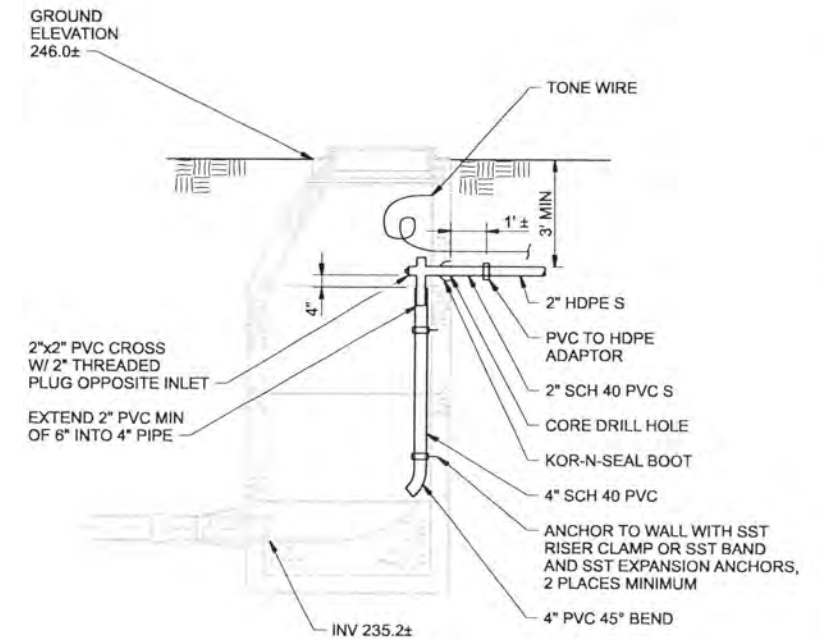
GRAVEL SURFACING

ALBANY FW PIPE TRENCH

3/8"=1'-0"

2

80-FW-806 80-FW-810 80-FW-814
80-FW-807 80-FW-811 80-FW-815
80-FW-808 80-FW-812 80-FW-816
80-FW-809 80-FW-813 80-FW-817

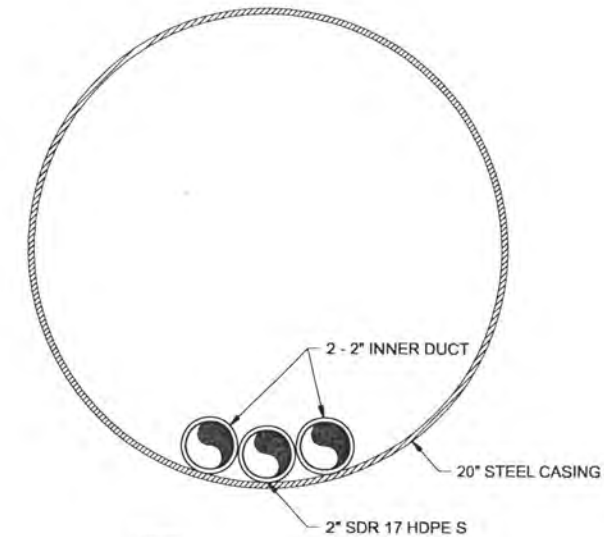


2" SS CONNECTION TO EXISTING MANHOLE

3/8"=1'-0"

3

80-FW-801



I-5 UNDERCROSSING

3"=1'-0"

4

80-FW-801

CH2MHILL

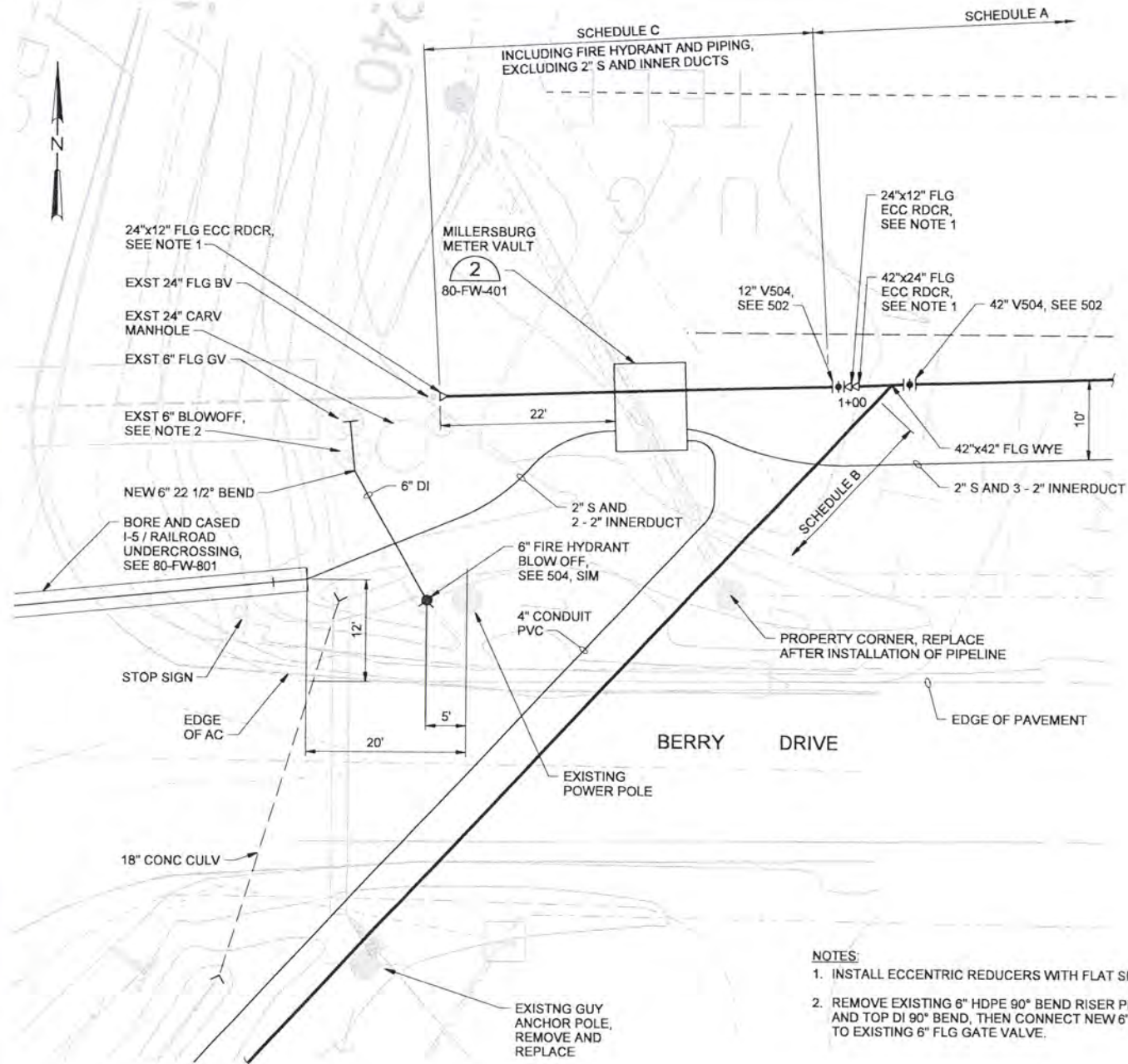
ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINES
FW DETAILS

SHEET	282
DWG	80-FW-402
DATE	APRIL 2004
PROJ	170368

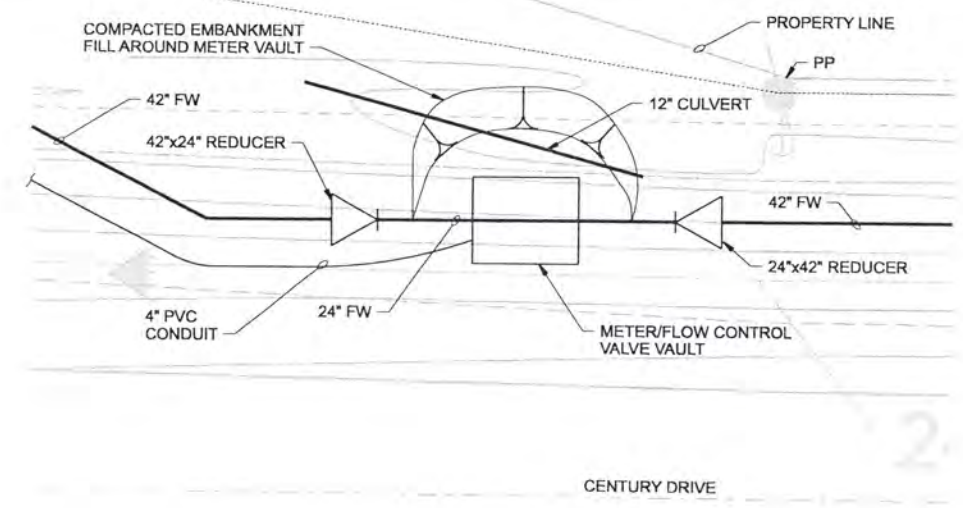
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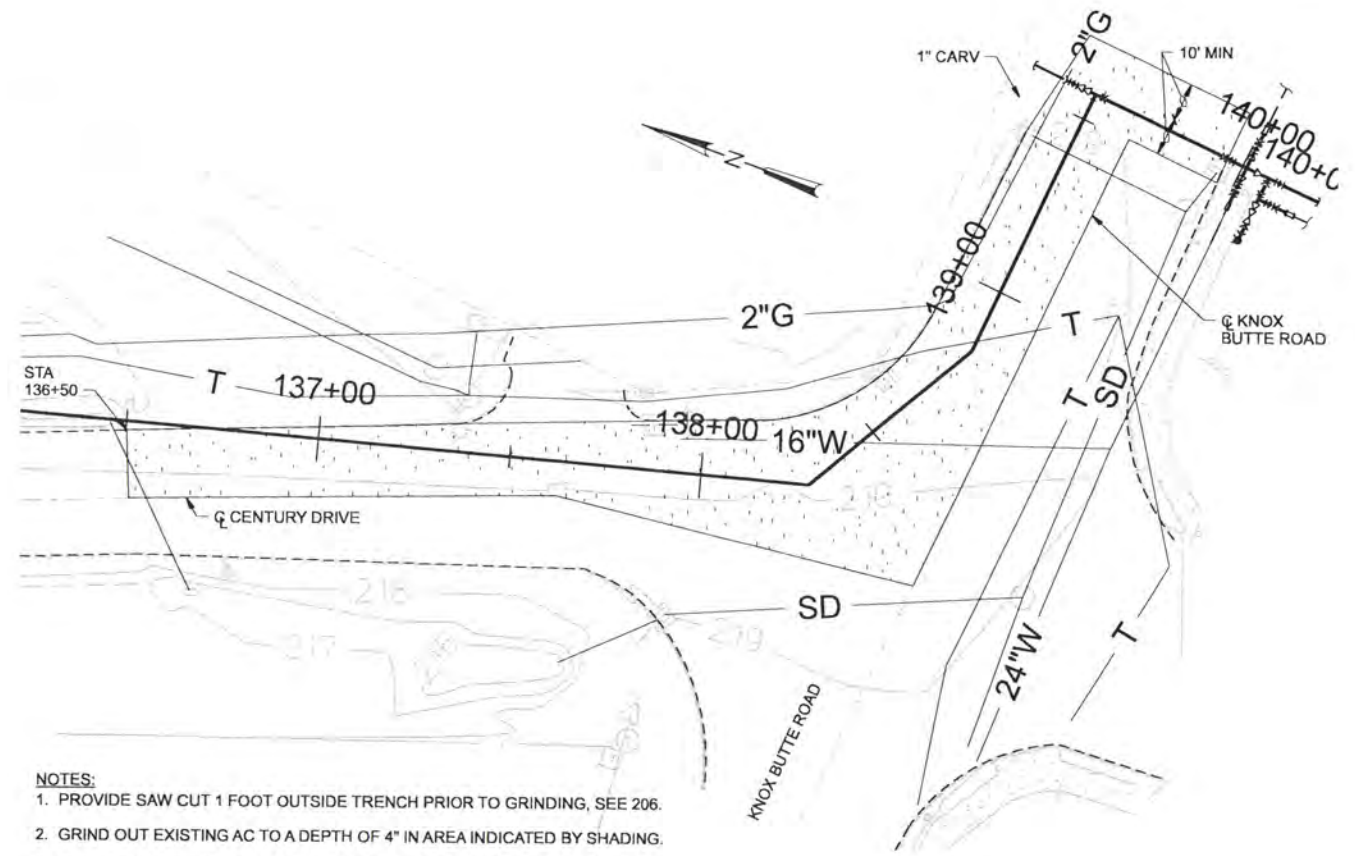


MILLERSBURG METER VAULT SITE PLAN 1
1"=10' 80-FW-801

- NOTES:**
1. INSTALL ECCENTRIC REDUCERS WITH FLAT SIDE UP.
 2. REMOVE EXISTING 6" HDPE 90° BEND RISER PIPE AND TOP DI 90° BEND, THEN CONNECT NEW 6" DI TO EXISTING 6" FLG GATE VALVE.



ALBANY METER/FLOW VAULT SITE PLAN 2
1"=10' 80-FW-806



- NOTES:**
1. PROVIDE SAW CUT 1 FOOT OUTSIDE TRENCH PRIOR TO GRINDING, SEE 206.
 2. GRIND OUT EXISTING AC TO A DEPTH OF 4" IN AREA INDICATED BY SHADING.
 3. PROVIDE 4" DEEP TRENCH PATCH, OVERLAYED WITH 4" AC IN GROUND OUT AREAS.

KNOX BUTTE INTERSECTION PAVING PLAN 3
1"=25' 80-FW-816

RECORD DRAWINGS

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DSGN	J.E. BARNHURST								
DR	L.G. McCALL								
CHK	W.B. WAGNER	6/2006	RECORD DRAWING	JMD	RCF				
APVD	C.W. MASSIE	NO.	DATE	REVISION	BY	APVD			

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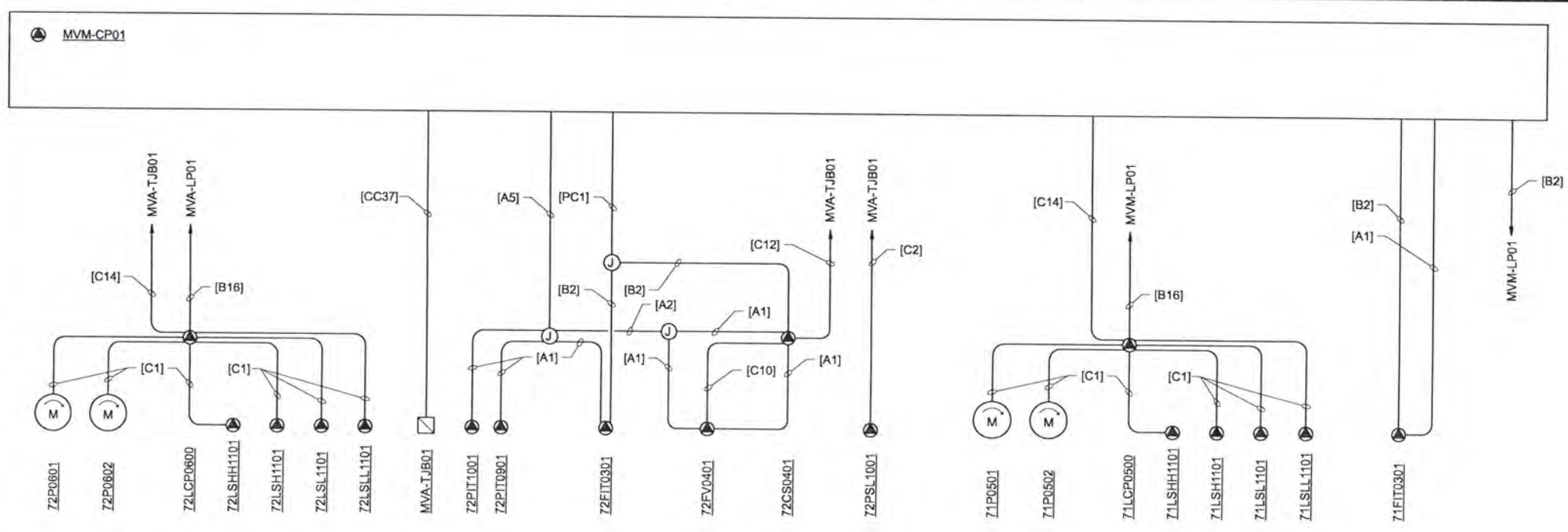


ALBANY-MILLERSBURG JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

FINISHED WATER TRANSMISSION PIPELINE
 FLOW METER VAULT DETAILS

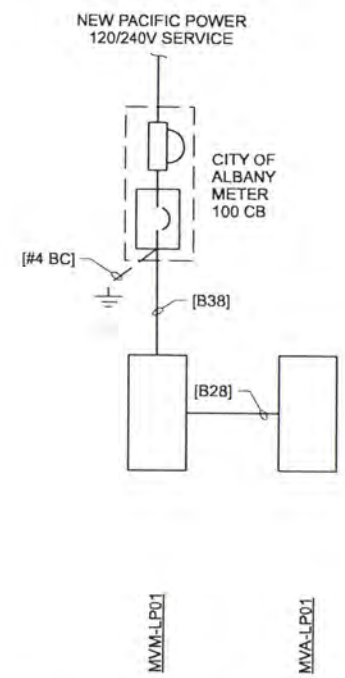
SHEET	283
DWG	80-FW-403
DATE	APRIL 2004
PROJ	170368

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**ALBANY METERING VAULT
RISER DIAGRAM**
NTS

**MILLERSBURG METERING VAULT
RISER DIAGRAM**
NTS



**FINISHED WATER METERING VAULTS
POWER DISTRIBUTION**
NTS

ELECTRICAL PANELBOARD SCHEDULE

PANEL: MVA-LP01 LOCATION: ALBANY METERING/FLOW VAULT
 VOLTAGE: 240/120V 1PH MOUNTING: SURFACE
 BUS SIZE: 100A FED FROM: MVM-LP01
 MAIN SIZE: 50A MAIN TYPE: CB

CIRCUIT TITLE	BREAKER			LOAD, VA		LOAD, VA		BREAKER			CIRCUIT TITLE
	CKT NO	AMP	POLE	PHASE		PHASE		POLE	AMP	CKT NO	
Z2CP0600 (SUMP PUMPS)	1	30	2	1920	360	1	20	2	RECPT		
Z2HP	3	-	-	1920	126	1	15	4	LIGHTS		
SPARE	5	20	1		450	1	15	6	HEAT TRACE		
SPARE	7	20	1			1	15	8	SPACE		
SPARE	9	20	1					10	SPACE		
SPARE	11	20	1					12	SPACE		
TOTAL LOAD											
				1920	1520	810	128				
				PHASE A LOAD (VA) =		2730					
				PHASE B LOAD (VA) =		2048					
				TOTAL LOAD (VA) =		4778					

ELECTRICAL PANELBOARD SCHEDULE

PANEL: MVM-LP01 LOCATION: MILLERSBURG METERING VAULT
 VOLTAGE: 240/120V 1PH MOUNTING: SURFACE
 BUS SIZE: 100A FED FROM: POWER POLE METER
 MAIN SIZE: 40A MAIN TYPE: CB

CIRCUIT TITLE	BREAKER			LOAD, VA		LOAD, VA		BREAKER			CIRCUIT TITLE
	CKT NO	AMP	POLE	PHASE		PHASE		POLE	AMP	CKT NO	
Z1CP0501 (SUMP PUMPS)	1	20	1	1920	750	1	20	2	Z1CP0101		
Z1HP	3	20	1	1920	120	1	15	4	LIGHTS		
RECPT	5	20	1	EX				1	15	6	
SPARE	7	20	1					1	15	8	
SPARE	9	20	1		2730			2	50	10	
SPARE	11	20	1		2048			-	-	12	
TOTAL LOAD											
				2540	1920	3480	2168				
				PHASE A LOAD (VA) =		6020					
				PHASE B LOAD (VA) =		4008					
				TOTAL LOAD (VA) =		10028					

RECORD DRAWINGS
 Revisions Drawn By: JMD Date: 6/2006
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DSGN	RG COLLETTE											
DR	MS MCNEELY											
CHK	JF TURNER	6/2006	RECORD DRAWING	JMD	RCF							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD						

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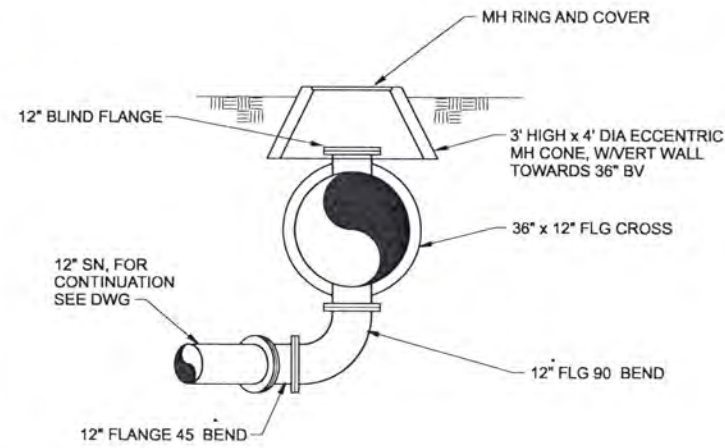


ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

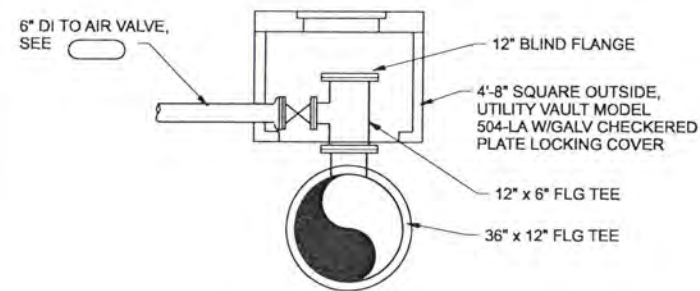
FINISHED WATER TRANSMISSION PIPELINES
 ELECTRICAL
 DETAILS

SHEET	285
DWG	80-E-401
DATE	APRIL 2004
PROJ	170368

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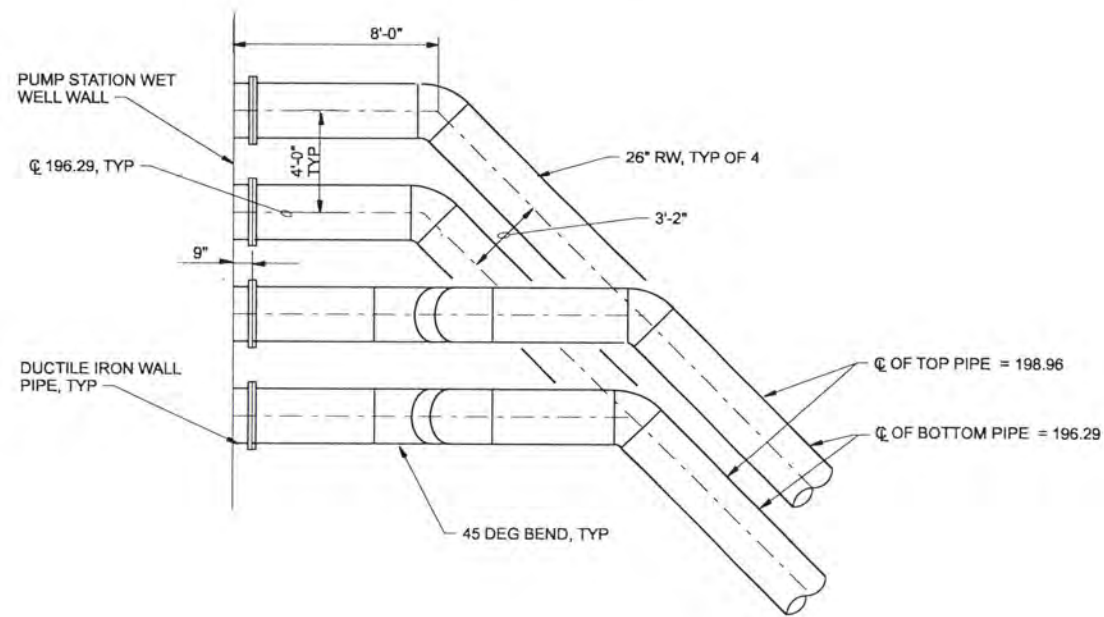
STA XXXX



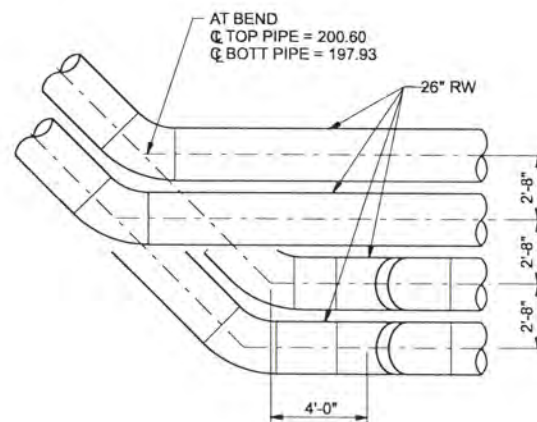
STA XXXX

ACCESS VAULTS

3/8"=1'-0"



DETAIL X
1/4"=1'-0"



DETAIL X
1/4"=1'-0"

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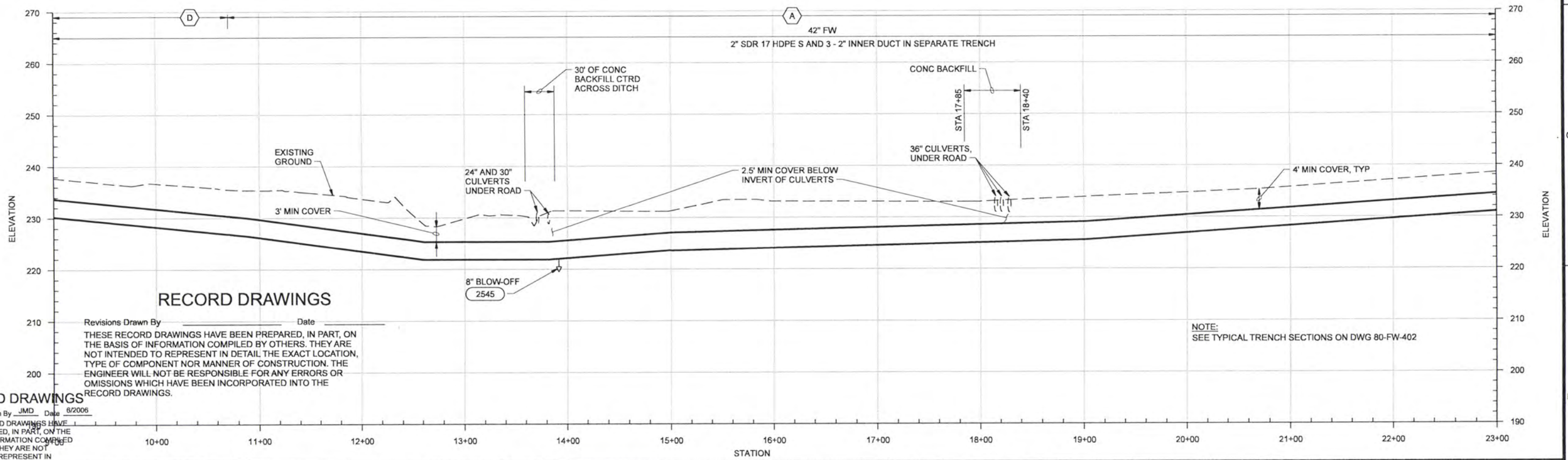
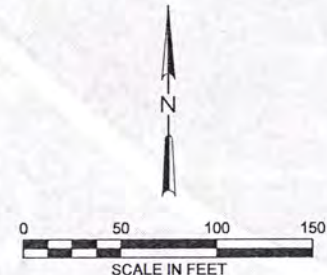
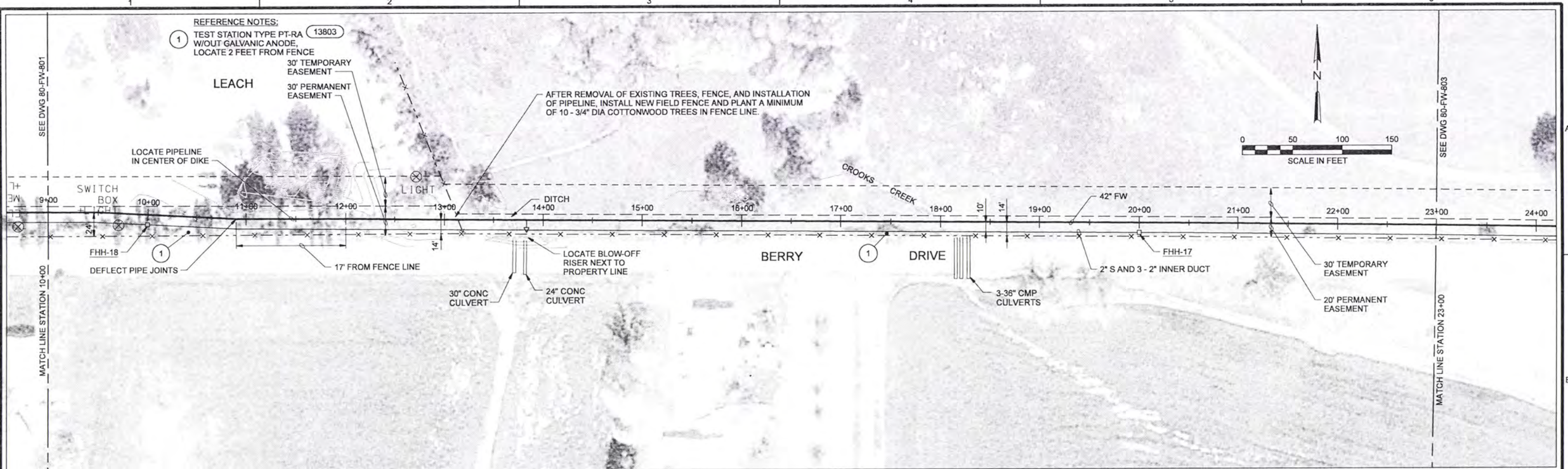
DSGN							
DR							
CHK							
APVD							
CW MASSIE	NO.	DATE	REVISION	BY	APVD		
		6/2006	RECORD DRAWING	JMD	RCF		

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ALBANY-MILLERSBURG
JOINT WATER SUPPLY PROJECT
LINN COUNTY, OREGON

SHEET	
DWG	
DATE	APRIL 2004
PROJ	170368



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NOTE:
 SEE TYPICAL TRENCH SECTIONS ON DWG 80-FW-402

RECORD DRAWINGS

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DSGN				VERIFY SCALE	
DR				BAR IS ONE INCH ON ORIGINAL DRAWING.	
CHK				0 = 1"	
APVD	6/2006	RECORD DRAWING	JMD RCF	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	
CW MASSIE	NO. DATE	REVISION	BY APVD		

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ALBANY-MILLERSBURG
 JOINT WATER SUPPLY PROJECT
 LINN COUNTY, OREGON

SHEET	
DWG	
DATE	APRIL 2004
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