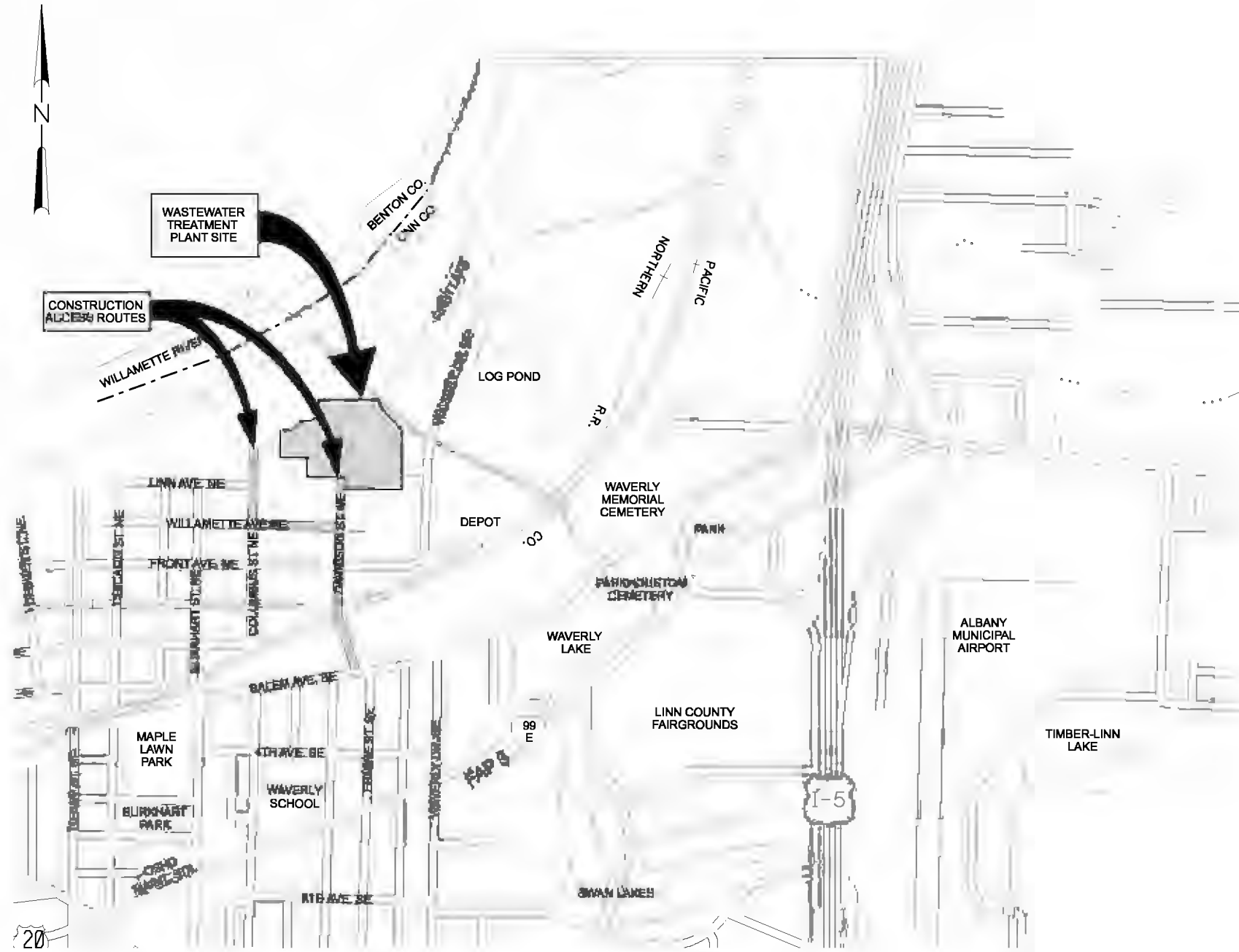
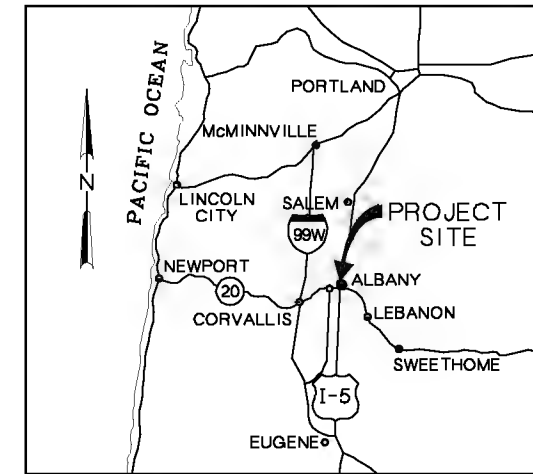


ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT LINN COUNTY, OREGON



VICINITY MAP



LOCATION MAP

RECORD DRAWINGS

Revisions Drawn By CH2M HILL Date 02/2010

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DR	WB LOVE						
CHK	RC FRANKENFIELD	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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0" = 1"
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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
LOCATION AND VICINITY MAPS

SHEET	01
DWG	01-G-01
DATE	MAY 19 2006
PROJ	326918

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
INDEX TO DRAWINGS
SHEET 1

SHEET	02
DWG	01-G-02
DATE	MAY 19 2006
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DSGN	WB LOVE	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	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.
DR	WB LOVE							
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APVD	CW MASSIE	JMD	SJP					



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
INDEX TO DRAWINGS
SHEET 2

SHEET	03
DWG	01-G-03
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L	ANGLE, LENGTH	N	NORTH, NEUTRAL	PLYWD	PLYWOOD	S	I-BEAM	THK	THICKNESS
LA	LIGHTNING ARRESTER	NA	NOT APPLICABLE	PNL	PANEL	S	SLOPE, SOUTH, SWITCH	THRU	THROUGH
LAB	LABORATORY	NC	NORMALLY CLOSED	PP	POWER POLE	SA	SUPPLY AIR	TJB	TERMINAL JUNCTION BOX
LAM	LAMINATE	NEUT	NEUTRAL	P-P	PUSH-PULL	SATC	SUSPENDED ACCUSTICAL TILE CEILING	TL	TEFLON LINED PIPE
LAT	LATITUDE	NA	NON-AUTOMATIC	PPL	POLYPROPYLENE LINED	SB	SEDIMENT BASIN	T.O.	TIME TO OPEN, TOP OF
LB	POUND	NGVD	NATIONAL GEODETIC VERTICAL DATUM	PR	PAIR	SC	SHOWER CURTAIN, SOLID CORE WOOD	TOAE	TIME OPEN AFTER ENERGIZATION
LC	LIGHTING CONTACTOR	NIC	NOT IN CONTRACT	PRCST	PRECAST	SCC	SOLID CORE	TOC	TOP OF CONCRETE
LD	COMBINATION LOUVER/DAMPER	N.O.	NORMALLY OPEN	PREFAB	PREFABRICATION	SCFM	STANDARD CUBIC FEED PER MINUTE	TOD	TIME ON DELAY, TOP OF DUCT,
LDG	LOADING DOCK	NO., #	NUMBER	PRES	PRESSURE	SCHED	SCHEDULE	TOF	TOTAL OXYGEN DEMAND
LEL	LOWER EXPLOSIVE LIMIT	NOM	NOMINAL	PRI	PRIMARY	SCU	SPEED CONTROL UNIT	TOG	TOP OF FOOTING
LF	LINEAR FEET	NP	NON-PROTECTED	PRM	PERMANENT REFERENCED MARKER	SDP	SUB-DISTRIBUTION PANEL	TOS	TOP OF GROUT
LG	LONG	NPCW	NON-POTABLE COLD WATER	PROJ	PROJECTION	SDWK	SIDEWALK	TOS	TOP OF STEEL
LH	LEFT HAND	NPHW	NON-POTABLE HOT WATER	PROP	PROPERTY	SEC	SECONDARY	T.O.W.	TOP OF WALL
LHR	LEFT HAND REVERSE	NPT	NATIONAL PIPE THREADS	PS	PLASTIC SHEET, POLYCARBONATE SHEET	SECT	SECTION	TP	TURNING POINT
LLH	LONG LEG HORIZONTAL	NS	NON-SHRINK	PS	PAINT SYSTEM	SED	SEDIMENTATION	TR	TRANSOM, TRUSS
LLV	LONG LEG VERTICAL	NTS	NOT TO SCALE	PSF	POUNDS PER SQUARE FOOT	SEW	SEWAGE	TRANS	TRANSFORMER, TRANSITION
LONG	LONGITUDINAL			PSI	POUNDS PER SQUARE INCH	SG	LAMINATED SAFETY GLASS, SAFETY	TRANSV	TRANSVERSE
LOS	LOCK-OUT STOP PUSHBUTTON			PSIG	POUNDS PER SQUARE INCH, GAUGE	SGWB	SUSPENDED GYPSUM WALL BOARD	TRD	TREAD
LP	LIGHT POLE, LIGHTING PANEL	O ₂	OXYGEN	PT	POINT OF TANGENCY	SH	SHEET	TS	TEMPORARY SEEDING, TUBE STEEL
LPT	LOW POINT	OA	OVERALL, ODEROUS AIR	PT	POTENTIAL TRANSFORMER	SHA	SURFACE HARDENING AGENT	TSHT	THRESHOLD
LR	LATCHING RELAY	OC	ON CENTER	PT	PRESSURE TREATED	SHS	SOLIDS HANDLING SYSTEM	TSS	TOTAL SUSPENSION SOLIDS
LR	LOCAL-REMOTE	OC	OPEN-CLOSE (O)	PTD	PAPER TOWEL DISPENSER	SIM	SIMILAR	TST	TOP OF STEEL
LR	LONG RADIUS	OCA	OPEN-CLOSE-AUTO	PTN	PARTITION	SK	SINK	TTC	TELEPHONE TERMINAL CABINET
LS	LABORATORY SINK	OCR	OPEN-CLOSE-REMOTE	PV	PLUG VALVE	SLR	SEALER	TTD	TOILET TISSUE DISPENSER
LTG, LTS	LIGHTS OR LIGHTING	OD	OUTSIDE DIAMETER, OVERFLOW DRAIN	PVC	POLYVINYL CHLORIDE	SLV	SLEEVE	TU-X	TREATMENT UNIT NO. X
LTX	LIGHTING TRANSFORMER	O.F.	OUTSIDE FACE	PVI	POINT OF VERTICAL INTERSECTION	SMLS	SEAMLESS EPOXY	TURB	TURBIDITY
LWL	LOW WATER LEVEL	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	PVMT	PAVEMENT	SOI	SPRAY- ON INSULATION	TWP	TRANSLUCENT WALL PANEL
		OFOI	OWNER FURNISHED, OWNER INSTALLED	PVT	POINT OF VERTICAL TANGENCY	SOLN	SOLUTION	TX	TRANSFORMER
		OG	OBSCURE			SP	SPACE OR SPACES, SPANDREL PANEL, STORMPROOF	TYP	TYPICAL
MA	MANUAL-AUTO	OL	OVERLOAD RELAY				SPECIFICATIONS		
MAS	MASONRY	OO	ON-OFF	QAA	AVERAGE FLOW	SPEC, SPECS	SPACINGS	UON	UNLESS OTHERWISE NOTED
MATL	MATERIAL	OOA	ON-OFF-AUTO	QMM	MAXIMUM 30 DAY FLOW	SPG	SPACING	UNO	UNLESS NOTED OTHERWISE
MAX	MAXIMUM	OOR	ON-OFF-REMOTE	QPI	PEAK INSTANTANEOUS FLOW	SPLY	SUPPLY	UPS	UNINTERRUPTIBLE POWER SUPPLY
MB	MACHINE BOLT	OP	OPAQUE PANEL, OUTLET PROTECTION	QPP	PEAK PUMPING FLOW	SQ	SQUARE	USB	UNIT SUBSTATION
MC	MASONRY CLEARANCE	OPER	OPERATOR	QT	QUARRY TILE	SQ FT	SQUARE FOOT, FEET	UVR	UNDER VOLTAGE RELAY
MC	MODULATE-CLOSE	OPNG	OPENING			SQ IN	SQUARE INCH		
MCC	MOTOR CONTROL CENTER	OPP	OPPOSITE	R	RISER	SR	SHORT RADIUS		
MDO	MEDIUM DENSITY OVERLAY	OSA	OUTSIDE AIR	R OR RAD	RADIUS	SS	START-STOP		
MECH	MECHANICAL	OSC	OPEN-STOP-CLOSE	RA	RETURN AIR	SSL	SHORT SLOTTED HOLE	V	VENT, VALVE
MFD	MANUFACTURED	OSD	OPEN SITE DRAIN	RC	REINFORCED CONCRETE	SST	STAINLESS STEEL	V	VOLTMETER, VOLTS
MFR	MANUFACTURER	OWSJ	OPEN WEB STEEL JOIST	RCP	REINFORCED CONCRETE PIPE	SSC	SUPERVISORY SET POINT CONTROL	VB	VAPOR BARRIER (RETARDER)
MGD	MILLION GALLONS PER DAY	OZ	OUNCE	RCPT	RECEPTACLE	ST	STRAIGHT	VC	VERTICAL CURVE
MH	MANHOLE, MOUNTING HEIGHT			RD	ROAD, ROOF DRAIN	STA	STATUS	VCP	VITRIFIED CLAY PIPE
MIN	MINIMUM			RDCR	REDUCER	STD	STANDARD	VCT	VINYL COMPOSITION TILE
MISC	MISCELLANEOUS	P	PROJECTED	RDW	REDWOOD	STIF	STIFFENER	VEL	VELOCITY
MJ	MECHANICAL JOINT	P	PILASTER, PIPE	RECIR	RECIRCULATION	STIRR	STIRRUP	VERT	VERTICAL
MLO	MAIN LUGS ONLY	PAVT	PAVER TILE	REF	REFER OR REFERENCE	STL	STEEL	VHC	VOLATILE HYDROCARBONS
MMP	MECHANICAL MOUNTING PANEL	PB	PUSHBUTTON SWITCH	REFR	REFRIGERATE, REFRIGERANT	STR	STRUCTURAL	VIB	VIBRATION
MO	MANUAL OPERABLE, MASONRY OPENING	PC	POINT OF CURVE, PHOTOCCELL	REINF	REINFORCED, REINFORCING, REINFORCE	STRUCT	STRUCTURE	VIN	VINYL
MOD	MOTOR OPERATED DAMPER	PC	PRECAST CONCRETE PANEL	REQD	REQUIRED	SUBFL	SUBFLOOR	VINT, VT	VINYL TILE
MP	METAL PANEL	PCCP	PRECAST CONCRETE CYLINDER PIPE	RESIL	RESILIENT	SUSP	SUSPENDED	VP	VERTICAL PIVOTED
MPU	MULTIPURPOSE UNIT	PCR	POINT OF CURB RETURN	RFS	ROLL-UP FIRE SHUTTER	SV	SOLENOID VALVE	VPS	VENEER PLASTER SYSTEM
MS	MANUFACTURER'S STANDARD	PCV	PRESSURE CONTROL VALVE	RG	REFLECTIVE	SVIN	SHEET VINYL	VPC	POINT OF VERTICAL CURVATURE
MSC	MANUFACTURER SUPPLIED CABLE	PE	PLAIN END	RH	REFLECTIVE	SWBD	SWITCHBOARD	VPI	POINT OF VERTICAL INTERSECTION
MSR	GROUPED MOTOR CONTROL	PED	PEDESTAL, PEDESTRIAN	RH	RIGHT HAND	SWGR	SWITCHGEAR	vpt	POINT OF VERTICAL TANGENT
MT	MOUNT	PEP	POLYETHYLENE PIPE	RHR	RIGHT HAND REVERSE	SYMM	SYMMETRICAL	VS	VERTICAL SLIDE
MTD	MOUNTED	PEN.	PENETRATION	RL	RAIN LEADER			VTR	VENT THRU ROOF
MTG	MOUNTING	PFC	POUNDS PER CUBIC FOOT	RLS	RUBBER LINED STEEL			VWC	VINYL WALL COVERING
MTS	MANUAL TRANSFER SWITCH	PH	PENTHOUSE	RM	ROOM	T	TANGENT		
MTS	MILL TYPE STEEL PIPE	pH	HYDROGEN ION CONCENTRATION	RO	ROUGH OPENING	T	THERMOSTAT, TREAD		
MU	MULCHING	PH	PHASE	ROL	RAISE-OFF-LOWER	T&B	TOP AND BOTTOM	W	WATER
MV	MERCURY VAPOR	PI	POINT OF INTERSECTION	RP	RADIUS POINT	T&G	TONGUE AND GROOVE	W	WITH
MWS	MAXIMUM WATER SURFACE	PIT	PILOT TUBE TEST STATION	RPBP	REDUCED PRESSURE PRINCIPAL	TA	TRANSFER AIR	W	WEATHERSTRIP
		PJF	PREMOULDED JOINT FILLER			TAN	TANGENT	WG	WEATHERSTRIP
		PL	PLATE (STEEL)			TB	TERMINAL BOARD	WH	WIRE, WIRE GLASS
		PL	PROPERTY LINE			TBG	TUBING	WH	WATTHOUR METER
		PLAM	PLASTIC LAMINATE			TC	TIME TO CLOSE	WHD	WATTHOUR DEMAND METER
		PLAS	PLASTER, PLASTIC			TC	TOP OF CURB	WP	WATERPROOF, WEATHERPROOF, WORKPOINT
		PLC	PROGRAMMABLE LOGIC CONTROLLER			TC	TURBIDITY CURTAIN	WR	WASTE RECEPTACLE
						TCAD	TIME CLOSE AFTER DE-ENERGIATION	WRB	WATER RESISTANT GWB
						TCAE	TIME CLOSE AFTER ENERGIZATION	WS	WATER SURFACE, WATERSTOP, WELDED STEEL
						TDH	TOTAL DYNAMIC HEAD		
						TDR	TIME DELAY RELAY		
						TECH	TECHNICAL		
						TEL	TELEPHONE		
						TEMP	TEMPORARY, TEMPERATURE		
						TF	TOP FACE		
						TFG	TEMPERED FLOAT GLASS		
						TG	TEMPERED		
						TH	TOP-HINGED		
						THD	THREAD		

- NOTES:**
- THIS IS A STANDARD SHEET, THEREFORE SOME ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT BE USED ON THE PROJECT.
 - CONTACT ENGINEER FOR ABBREVIATIONS USED BUT NOT SHOWN ON THIS DRAWING.
 - FOR ADDITIONAL ABBREVIATIONS OF OTHER DIVISIONS (PLUMBING, CIVIL, HVAC, ELECTRICAL, INSTRUMENTATION AND CONTROL, MECHANICAL, AND STRUCTURAL/ ARCHITECTURAL), SEE OTHER LEGENDS.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY RICH C. FRANKENFIELD STATE OF OREGON, P.E. NO. 10,678.

DSGN	WB LOVE								
DR	WB LOVE								
CHK	RC FRANKENFIELD	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	VERIFY SCALE		
							BAR IS ONE INCH ON ORIGINAL DRAWING.		
							0		
							IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.		



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
STANDARD ABBREVIATIONS
SHEET 2

SHEET	06
DWG	01-G-06
DATE	MAY 19 2006
PROJ	326918

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.

GENERAL ARCHITECTURAL NOTES

- UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
- "FLOOR LINE" REFERS TO TOP ON CONCRETE SLABS. FINISH FLOORING IS INSTALLED ABOVE THE FLOOR LINE. FOR DEPRESSED FLOORS AND CURBS, SEE STRUCTURAL DRAWINGS.
- REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
- WHERE DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 4-INCHES FROM FACE OF STUD (WALL) TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF WALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS, 8" AT CMU WALLS.
- AT SOUND INSULATED WALLS, FULL HEIGHT PARTITIONS SHALL BE SEALED BOTH SIDES WITH ACOUSTIC SEALANT; TOP, BOTTOM, INTERSECTION, DOOR FRAMES, GLAZED OPENING FRAMES, AND OTHER PENETRATIONS.
- LINE OF EXISTING GRADES, AS SHOWN ON THE BUILDING ELEVATIONS AND SECTIONS ARE APPROXIMATE. THEY ARE AT THE BUILDING FACE, OR ON THE SECTION END EXCEPT AS NOTED.
- VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT, OR BY OTHERS.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER CATEGORIES OR DRAWINGS FOR ADDITIONAL NOTES.
- VERIFY SIZE AND LOCATION OF, AND PROVIDE: REQUIRED OPENINGS THROUGH FLOORS AND WALLS, ACCESS DOORS, FURRING, CURBS, ANCHORS AND INSERTS. PROVIDE ALL BASES AND BLOCKING REQUIRED FOR ACCESSORIES, MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT.

ARCH/STRUCT MATERIAL SYMBOLS

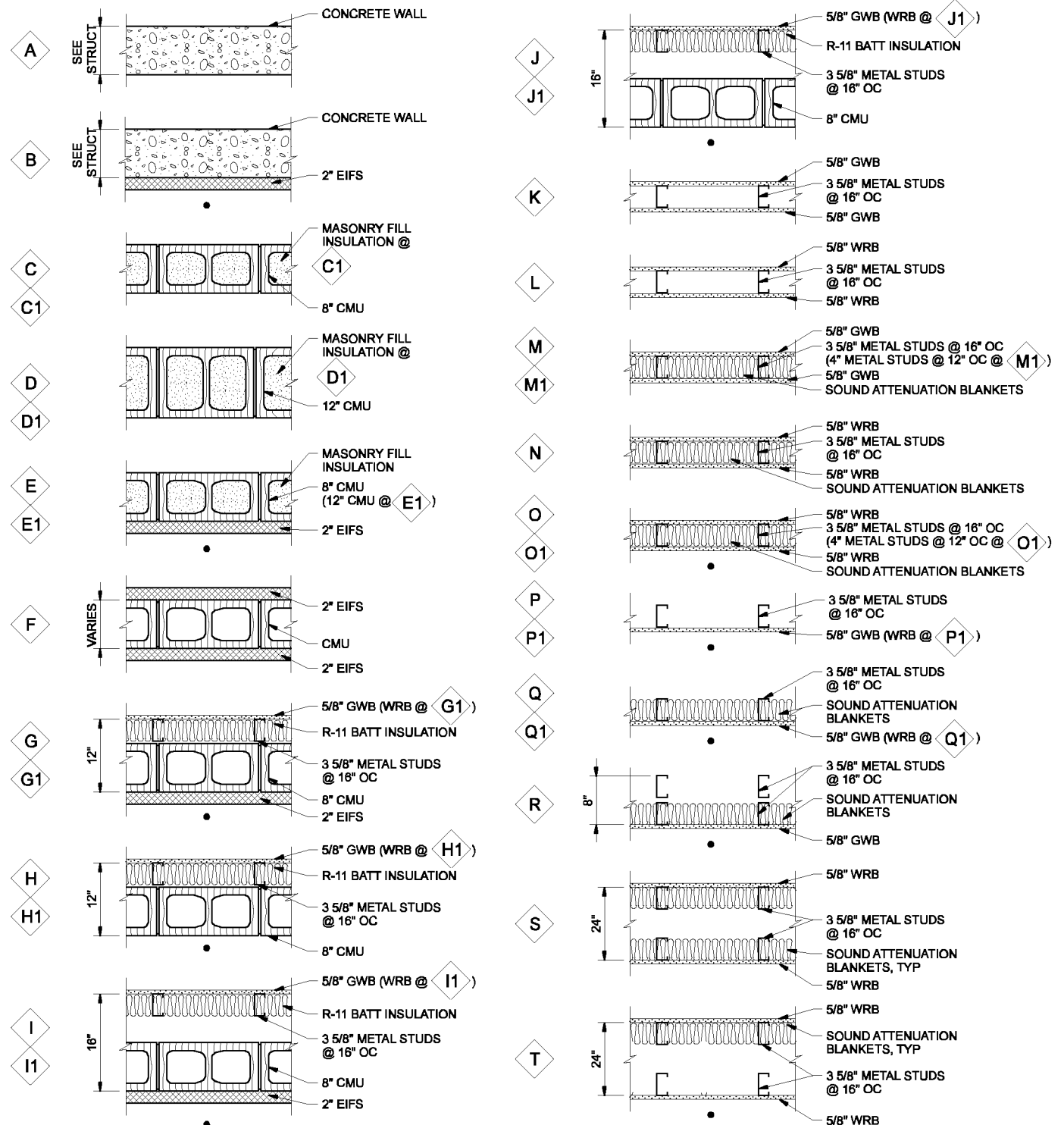
SYMBOL	LEGEND
	GRATING, SPAN DIRECTION INDICATED
	CHECKERED PLATE
	GROUT
	GRANULAR FILL
	EARTH OR FINISH GRADE
	CONCRETE
	CMU WALL (PLAN)
	CMU WALL (SECTION)
	MASONRY VENEER WALL
	METAL STUD WALL (PLAN)
	RIGID INSULATION
	BATT INSULATION
	STEEL
	ALUMINUM
	PLYWOOD
	GYPSUM WALLBOARD
	WOOD, ROUGH CONTINUOUS
	WOOD, ROUGH NON-CONTINUOUS
	WOOD, FINISHED

ARCHITECTURAL/STRUCTURAL LEGEND

SYMBOL	LEGEND
	COLUMN GRID NUMBER OR LETTER
	ROOM NUMBER
	"XX" = FACILITY NUMBER ROOM NUMBER DOOR LETTER
	WINDOW NUMBER
	RELIGHT NUMBER
	LOUVER NUMBER
	DIRECTION SHOWN INTERIOR ELEVATION
	WALL TYPE
	SPOT ELEVATION
	DIRECTION OF SLOPE DOWN
	LINE INDICATES DIRECTION AND EXTENT OF DETAIL CUT DETAIL REFERENCE
	DOOR/HATCH SWING
	INDICATES PAIR OF DOORS
	FIRE EXTINGUISHER "X" = NUMBER IN SPECIFICATIONS
	CONTROL JOINT
	EXPANSION JOINT
	RAILINGS

NOTES:

- DENOTES LOCATION OF WALL TYPE SYMBOL ON PLANS.
- WHERE MORE THAN ONE WALL TYPE IS INDICATED FOR A SINGLE LOCATION ON PLANS, CONSTRUCTION VARIES IN THE HEIGHT OF THE WALL. WALL TYPES ARE SHOWN IN THE ORDER IN WHICH THEY OCCUR, WITH THE LOWEST LOCATED NEAREST THE WALL.
- WALL TYPES SHOWN APPLY TO HEADWORKS, AERATION BLOWER BUILDING, DISINFECTION BUILDING PLAN W3 PUMP STATION, AND CONTROL BUILDING, ONLY.



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY JOHN E. CAVE STATE OF OREGON, P.E. NO. 2,429

DSGN	MJ MERKLEIN JE CAVE						
DR	WB LOVE						
CHK	GB KIRSTEN	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
ARCHITECTURAL / STRUCTURAL
LEGENDS AND WALL TYPES

SHEET	07
DWG	01-G-07
DATE	MAY 19 2006
PROJ	326918

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BUILDING CODE DATA TABLE			
FACILITY NO.: 20		FACILITY NAME: HEADWORKS	
BUILDING CODE:	2004 OSSC	FIRE SUPPRESSION SYSTEM:	HAND HELD FIRE EXTINGUISHERS
OCCUPANCY GROUP:	F-2	FIRE RESISTANCE RATING FOR BUILDING ELEMENTS:	
TYPE OF CONSTRUCTION:	IIB	STRUCTURAL FRAME:	0 HRS
MAXIMUM STORIES ALLOWED:	3	BEARING WALLS:	0 HRS
ACTUAL NUMBER OF STORIES:	2	NONBEARING WALLS, INTERIOR:	0 HRS
MAXIMUM HEIGHT ALLOWED:	55 FT	FLOOR CONSTRUCTION:	0 HRS
ACTUAL HEIGHT:	50 FT	ROOF ENCLOSURES:	0 HRS
MAXIMUM AREA ALLOWED PER FLOOR:	23,000 SF	SHAFT ENCLOSURES:	0 HRS
ACTUAL AREA PER FLOOR:		STAIRWAY ENCLOSURE:	0 HRS
LOWER LEVEL:	9,777 SF	CORRIDOR:	0 HRS
UPPER LEVEL:	6,298 SF	EXTERIOR WALL FIRE RESISTANCE BASED ON FIRE SEPARATION DISTANCE:	0 HRS WHEN > 10 FT
ALLOWABLE NUMBER OF OCCUPANTS:			
LOWER LEVEL:	98		
UPPER LEVEL:	63		
ACTUAL NUMBER OF OCCUPANTS:	NOT NORMALLY OCCUPIED		
TRAVEL DISTANCE ALLOWED (MAX.):	300 FT		
OCCUPANCY SEPARATION / FIRE RATING:	1 HR BETWEEN SCREENED RAS MECHANICAL ROOM AND ADJACENT SPACES, AND BETWEEN MECHANICAL ROOM / GRIT PUMP ROOM AND ADJACENT SPACES (IBC TABLE 302.1.1 - EQUIPMENT W/ > 4000,000 BTU PER HOUR INPUT)		

BUILDING CODE DATA TABLE			
FACILITY NO.: 30		FACILITY NAME: VERTICAL LOOP REACTORS ELECTRICAL ENCLOSURE	
BUILDING CODE:	2004 OSSC	FIRE SUPPRESSION SYSTEM:	HAND HELD FIRE EXTINGUISHERS
OCCUPANCY GROUP:	F-2	FIRE RESISTANCE RATING FOR BUILDING ELEMENTS:	
TYPE OF CONSTRUCTION:	IIB	STRUCTURAL FRAME:	0 HRS
MAXIMUM STORIES ALLOWED:	3	BEARING WALLS:	0 HRS
ACTUAL NUMBER OF STORIES:	1	NONBEARING WALLS, INTERIOR:	0 HRS
MAXIMUM HEIGHT ALLOWED:	55FT	FLOOR CONSTRUCTION:	0 HRS
ACTUAL HEIGHT:	10 FT 6 IN	ROOF ENCLOSURES:	0 HRS
MAXIMUM AREA ALLOWED PER FLOOR:	23,000 SF	SHAFT ENCLOSURES:	0 HRS
ACTUAL AREA PER FLOOR:	83 SF	STAIRWAY ENCLOSURE:	0 HRS
ALLOWABLE NUMBER OF OCCUPANTS:	< 1	CORRIDOR:	0 HRS
ACTUAL NUMBER OF OCCUPANTS:	NOT NORMALLY OCCUPIED	EXTERIOR WALL FIRE RESISTANCE BASED ON FIRE SEPARATION DISTANCE:	0 HRS WHEN > 10 FT
TRAVEL DISTANCE ALLOWED (MAX.):	300 FT		
OCCUPANCY SEPARATION / FIRE RATING:	N/A		

BUILDING CODE DATA TABLE			
FACILITY NO.: 32		FACILITY NAME: AERATION BLOWER BUILDING	
BUILDING CODE:	2004 OSSC	FIRE SUPPRESSION SYSTEM:	HAND HELD FIRE EXTINGUISHERS
OCCUPANCY GROUP:	F-2	FIRE RESISTANCE RATING FOR BUILDING ELEMENTS:	
TYPE OF CONSTRUCTION:	IIB	STRUCTURAL FRAME:	0 HRS
MAXIMUM STORIES ALLOWED:	3	BEARING WALLS:	0 HRS
ACTUAL NUMBER OF STORIES:	1	NONBEARING WALLS, INTERIOR:	0 HRS
MAXIMUM HEIGHT ALLOWED:	55FT	FLOOR CONSTRUCTION:	0 HRS
ACTUAL HEIGHT:	20 FT 6 IN	ROOF ENCLOSURES:	0 HRS
MAXIMUM AREA ALLOWED PER FLOOR:	23,000 SF	SHAFT ENCLOSURES:	0 HRS
ACTUAL AREA PER FLOOR:	2,576 SF	STAIRWAY ENCLOSURE:	0 HRS
ALLOWABLE NUMBER OF OCCUPANTS:	26	CORRIDOR:	0 HRS
ACTUAL NUMBER OF OCCUPANTS:	NOT NORMALLY OCCUPIED	EXTERIOR WALL FIRE RESISTANCE BASED ON FIRE SEPARATION DISTANCE:	0 HRS WHEN > 10 FT
TRAVEL DISTANCE ALLOWED (MAX.):	300 FT		
OCCUPANCY SEPARATION / FIRE RATING:	N/A		

BUILDING CODE DATA TABLE			
FACILITY NO.: 61		FACILITY NAME: DISINFECTION BUILDING AND W3 PUMP STATION	
BUILDING CODE:	2004 OSSC	FIRE SUPPRESSION SYSTEM:	HAND HELD FIRE EXTINGUISHERS/ FULLY SPRINKLERED
OCCUPANCY GROUP:	PUMP ROOM: F2 SODIUM HYPOCHLORITE STORAGE: H4 (13,000 GALLONS OF SODIUM HYPOCHLORITE, 12 1/2% CONCENTRATION)	FIRE RESISTANCE RATING FOR BUILDING ELEMENTS:	
TYPE OF CONSTRUCTION:	IIB	STRUCTURAL FRAME:	0 HRS
MAXIMUM STORIES ALLOWED:	3	BEARING WALLS:	0 HRS
ACTUAL NUMBER OF STORIES:	1	NONBEARING WALLS, INTERIOR:	0 HRS
MAXIMUM HEIGHT ALLOWED:	55 FT	FLOOR CONSTRUCTION:	0 HRS
ACTUAL HEIGHT:	22 FT 6 IN	ROOF ENCLOSURES:	0 HRS
MAXIMUM AREA ALLOWED PER FLOOR:	23,000 SF / 17,500 SF	SHAFT ENCLOSURES:	0 HRS
ACTUAL AREA PER FLOOR:	792 SF / 651 SF	STAIRWAY ENCLOSURE:	0 HRS
ALLOWABLE NUMBER OF OCCUPANTS:	8 / 7	CORRIDOR:	0 HRS
ACTUAL NUMBER OF OCCUPANTS:	NOT NORMALLY OCCUPIED	EXTERIOR WALL FIRE RESISTANCE BASED ON FIRE SEPARATION DISTANCE:	0 HRS WHEN > 10 FT
TRAVEL DISTANCE ALLOWED (MAX.):	300 FT / 175 FT		
OCCUPANCY SEPARATION / FIRE RATING:	3 HR		

BUILDING CODE DATA TABLE			
FACILITY NO.: 95		FACILITY NAME: CONTROL BUILDING	
BUILDING CODE:	2004 OSSC	FIRE SUPPRESSION SYSTEM:	HAND HELD FIRE EXTINGUISHERS/ FULLY SPRINKLERED
OCCUPANCY GROUP:	B	FIRE RESISTANCE RATING FOR BUILDING ELEMENTS:	
TYPE OF CONSTRUCTION:	IIB	STRUCTURAL FRAME:	0 HRS
MAXIMUM STORIES ALLOWED:	4	BEARING WALLS:	0 HRS
ACTUAL NUMBER OF STORIES:	1	NONBEARING WALLS, INTERIOR:	0 HRS
MAXIMUM HEIGHT ALLOWED:	55 FT	FLOOR CONSTRUCTION:	0 HRS
ACTUAL HEIGHT:	19 FT 6 IN	ROOF ENCLOSURES:	0 HRS
MAXIMUM AREA ALLOWED PER FLOOR:	23,000 SF	SHAFT ENCLOSURES:	0 HRS
ACTUAL AREA PER FLOOR:	4712 SF	STAIRWAY ENCLOSURE:	0 HRS
ALLOWABLE NUMBER OF OCCUPANTS:	48	CORRIDOR:	0 HRS
ACTUAL NUMBER OF OCCUPANTS:	VARIES	EXTERIOR WALL FIRE RESISTANCE BASED ON FIRE SEPARATION DISTANCE:	0 HRS WHEN > 10 FT
TRAVEL DISTANCE ALLOWED (MAX.):	300 FT		
OCCUPANCY SEPARATION / FIRE RATING:	N/A		

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY JOHN E. CAVE STATE OF OREGON, P.E. NO. 2,429

DSGN	JE CAVE
DR	WB LOVE
CHK	GB KIRSTEN
APVD	CW MASSIE

01/20/10

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

NO. DATE

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



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
ARCHITECTURAL
CODE DATA

SHEET	08
DWG	01-G-08
DATE	MAY 19 2006
PROJ	326918

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DESIGN CRITERIA

1. APPLICABLE CODE: 2003 INTERNATIONAL BUILDING CODE (IBC), AS AMENDED BY THE STATE OF OREGON AND LOCAL AGENCIES.
2. REFER TO THE DRAWINGS FOR ADDITIONAL AND SPECIFIC STRUCTURE LOADINGS AND REQUIREMENTS.

3. ROOF LOADS:
 SNOW LOAD (GROUND) = 25 PSF PLUS DRIFTING
 Ce = .9 FULLY EXPOSED
 1.0 PARTIALLY EXPOSED
 1.2 SHELTERED
 Is = 1.1
 Ct = 1.0

SEE SNOW DRIFT DIAGRAMS ON ROOF PLAN(S).

DEFLECTION CRITERIA FOR ROOF FRAMING MEMBERS:
 TOTAL LOAD L / 240
 LIVE LOAD L / 360

WHERE L IS THE MEMBERS SPAN LENGTH

4. FLOOR LIVE LOADS:
 OFFICE FLOOR 100 PSF
 ELECTRICAL ROOM 300 PSF
 MECHANICAL ROOM 150 PSF
 CORRIDORS, EXITS, STAIRS 100 PSF
 VEHICULAR ACCESS HS 20

COLUMNS, FOOTINGS, AND FLOOR FRAMING MEMBERS HAVE BEEN DESIGNED FOR REDUCED LIVE LOADS IN ACCORDANCE WITH THE BUILDING CODE.

DEFLECTION CRITERIA FOR FLOOR FRAMING MEMBERS:
 TOTAL LOAD L / 360
 LIVE LOAD L / 480

WHERE L IS THE MEMBERS SPAN LENGTH

5. WIND LOAD:
 OSSC/IBC WIND PRESSURE
 MPH WIND SPEED = 100 MPH
 EXPOSURE = C
 Iw = 1.15

6. SEISMIC LOAD:
 MAPPED SPECTRAL RESPONSE ACCELERATION (USGS 2002)
 Ss = 0.74 g
 S1 = 0.34 g

SPECTRAL RESPONSE COEFFICIENTS
 Sds = 0.59 g
 Sd1 = 0.39 g
 Ie = 1.25
 SITE CLASS = D
 SEISMIC USE GROUP = II
 SEISMIC DESIGN CATEGORY = D

7. LATERAL FORCE RESISTING SYSTEM FOR BUILDINGS:

HEADWORKS:
 SPECIAL REINF CMU AND CONCRETE SHEAR WALL SYSTEM
 V = CsW
 Cs = 0.13
 R = 5.5
 EQUIVALENT LATERAL FORCE PROCEDURE

BLOWER BUILDING:
 SPECIAL REINF CMU SHEAR WALL SYSTEM
 V = CsW
 Cs = 0.15
 R = 5.5
 EQUIVALENT LATERAL FORCE PROCEDURE

W3 PUMP STATION:
 SPECIAL REINFORCED CMU SHEAR WALL SYSTEM
 V = CsW
 Cs = 0.37
 R = 2.0

CONTROL BUILDING:
 SPECIAL REINF CMU SHEAR WALL SYSTEM
 V = CsW
 Cs = 0.13
 R = 5.0
 EQUIVALENT LATERAL FORCE PROCEDURE

8. LATERAL FORCE RESISTING SYSTEM FOR TANKS AND WATER HOLDING PORTIONS OF STRUCTURES: SEISMIC DESIGN IN ACCORDANCE WITH ACI 350.3

NEW SECONDARY CLARIFIERS:
 V = AI W/R
 A = VARIES
 R = 3.0
 I = 1.25
 EQUIVALENT LATERAL FORCE PROCEDURE

VERTICAL LOOP REACTORS:
 V = AI W/R
 A = VARIES
 R = 4.0
 I = 1.25
 EQUIVALENT LATERAL FORCE PROCEDURE

MIXED LIQUOR FLOW SPLIT STRUCTURE:
 V = AI W/R
 A = VARIES
 R = 3.0
 I = 1.25
 EQUIVALENT LATERAL FORCE PROCEDURE

CHLORINE CONTACT BASINS:
 V = AI W/R
 A = VARIES
 R = 3.0
 I = 1.25
 EQUIVALENT LATERAL FORCE PROCEDURE

FLOW CONTROL STRUCTURE
 V = AI W/R
 A = VARIES
 R = 3.0
 I = 1.25
 EQUIVALENT LATERAL FORCE PROCEDURE

INTERCHANGE REACTORS / AEROBIC DIGESTERS
 V = AI W/R
 A = VARIES
 R = 3.0
 I = 1.25
 EQUIVALENT LATERAL FORCE PROCEDURE

9. SOIL DESIGN PARAMETERS:
 A. NET ALLOWABLE SOIL BEARING PRESSURES:
 STRIP FOOTINGS 2000 PSF
 ISOLATED FOOTINGS 2000 PSF
 OVER EXCAVATION HEADWORKS AREA 'A' 3000 PSF
 HEADWORKS AREAS 'B' AND 'C' 5000 PSF
 B. EQUIVALENT DRAINED FLUID PRESSURES:
 ACTIVE: 34 PCF
 AT REST: 54 PCF
 PASSIVE: 463 PCF
 C. EQUIVALENT UNDRAINED FLUID PRESSURES:
 ACTIVE: 79 PCF
 AT REST: 89 PCF
 PASSIVE: 294 PCF
 D. GROUND WATER ELEVATION (100 YEAR FLOOD): EL 199.00

GENERAL INFORMATION

1. FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 "ABBREVIATIONS AND ACRONYMS" PUBLICATION AS DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).
2. DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.
3. DETAILING AND DIMENSIONS OF EXISTING STRUCTURES SHOWN ARE BASED ON AS-BUILT DESIGN DRAWINGS, AND DO NOT NECESSARILY REPRESENT THE AS-CONSTRUCTED CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND DETAILING OF THE EXISTING STRUCTURES PRIOR TO FABRICATION OF ADJACENT FRAMING OR CONNECTIONS THAT ARE AFFECTED BY THE EXISTING STRUCTURE.
4. VERIFY OPENING DIMENSIONS IN WALLS, SLABS, AND DECKS WITH OTHER DISCIPLINE DRAWINGS.
5. FOR NUMBER, TYPE, SIZE, ARRANGEMENT, AND/OR LOCATION OF EQUIPMENT PADS SEE OTHER DISCIPLINE DRAWINGS. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR TO PLACING SLABS, WALLS AND FOUNDATIONS. COORDINATE PIPING OPENINGS WITH OTHER DISCIPLINE DRAWINGS.
6. CUT NO STRUCTURAL MEMBERS FOR PIPES, DUCTS, ETC, UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.
7. VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS GUARANTORS OF CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, NOR SAFETY AT THE JOB SITE.

FOUNDATIONS:

1. NO BACKFILL SHALL BE PLACED BEHIND WALLS UNTIL THE WALL'S AND TOP SUPPORTING SLAB'S CONCRETE HAVE ATTAINED 80% OF THEIR SPECIFIED COMPRESSIVE STRENGTH, OR UNTIL TOP-OF-WALL FRAMING SYSTEMS, INCLUDING DIAPHRAGMS, HAVE BEEN COMPLETED.
2. NO BACKFILL SHALL BE PLACED BEHIND CANTILEVERED, FREE TOP WALLS UNTIL THE CONCRETE HAS ATTAINED 100% OF ITS SPECIFIED COMPRESSIVE STRENGTH.
3. EXCAVATIONS SHALL BE SHORED AS REQUIRED TO PREVENT SUBSIDENCE OR DAMAGE TO ADJACENT EXISTING STRUCTURES, STREETS, UTILITIES, ETC.
4. ALL SOIL BEARING SURFACES SHALL BE INSPECTED BY THE SOILS ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL.

FORMWORK, SHORING AND BRACING:

1. CONSTRUCTION SHORING AND BRACING OF FORMWORK SHALL BE IN ACCORDANCE WITH CHAPTER 4 OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".
2. THE STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. THESE PLANS DO NOT INCLUDE THE NECESSARY COMPONENTS OR EQUIPMENT FOR THE STRUCTURES DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.
3. WALLS TIED TO ELEVATED FLOOR OR ROOF SLABS SHALL BE BRACED AND REMOVAL OF BRACING FOLLOWED BY BACKFILLING SHALL NOT BE ALLOWED UNTIL THE SLAB IS COMPLETE AND HAS ATTAINED 80% OF ITS SPECIFIED COMPRESSIVE STRENGTH.

DEFERRED SUBMITTALS

PER 2003 IBC 106.3.4.2, THE FOLLOWING ITEMS SHALL BE STAMPED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON AND SUBMITTED TO THE BUILDING PERMITTING AGENCY FOLLOWING FINAL REVIEW BY THE ENGINEER:

SPECIFICATION SECTION	ITEM
01611	CALCULATIONS FOR ALL SEISMIC BRACING REQUIREMENTS
05210	STEEL JOIST CALCULATIONS
05500	CHANNEL COVER CALCULATIONS
05520	HANDRAIL CALCULATIONS OR TEST DATA
08500	DESIGN CALCULATIONS AND TEST DATA
11281	DESIGN CALCULATIONS
11282	DESIGN CALCULATIONS
11331	DESIGN CALCULATIONS
14620	DESIGN CALCULATIONS
15080	PIPING SUPPORT SYSTEM DESIGN AND CALCULATIONS

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY MARK J. MERKLEIN STATE OF OREGON, P.E. NO. 58,357.

DSGN	MJ MERKLEIN								
DR	KJ DAVIS								
CHK	SM FREY	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

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



CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

GENERAL
 STRUCTURAL
 NOTES - SHEET 1

SHEET	09
DWG	01-G-09
DATE	MAY 19 2006
PROJ	326918

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

CONCRETE:

- 1. ALL CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE...

CONCRETE REINFORCING

- 1. THE MINIMUM REINFORCING FOR ALL CONCRETE WALLS AND SLABS SHALL BE AS FOLLOWS: WALL THICKNESS, REINF EACH WAY, LOCATION...

Table with columns: CONCRETE DESIGN STRENGTH = 4,000 PSI, GRADE 60 REINFORCING STEEL, BAR SIZE, LAP SPLICE LENGTH, SPACING < 6", SPACING >= 6", EMBEDMENT LENGTH.

CONCRETE REINFORCING: CONTINUED

- * TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR...

MASONRY:

- 1. MORTAR SHALL CONFORM TO ASTM C270, TYPE S, HYDRATED. MASONRY CEMENT SHALL NOT BE USED. 2. GROUT SHALL CONFORM TO ASTM C476 COURSE GROUT AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI...

FABRICATED METAL WORK:

- 1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 UNLESS SHOWN OTHERWISE. SQUARE OR RECTANGULAR STEEL TUBING SHALL CONFORM TO ASTM A-500, GRADE B. STEEL PIPE SHALL BE A501 OR ASTM A53, GRADE B...

METAL DECK

- 1. SEE ROOF PLAN FOR DECK SIZE, GAUGE, AND BUILDING SPECIFIC WELDING REQUIREMENTS. 2. WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL"...

WELDING

- 1. ALL WELDS SHALL BE DONE BY AWS CERTIFIED WELDERS AND SHALL CONFORM TO AWS D 1.1. LATEST EDITION. ALL BUTT WELDS ARE FULL PENETRATION UNLESS INDICATED OTHERWISE...

PREFABRICATED OPEN WEB METAL JOISTS:

- 1. THE OPEN WEB STEEL JOIST MANUFACTURER SHALL DESIGN THE JOISTS FOR THE FOLLOWING LOADS: SUPERIMPOSED ROOF LIVE LOAD = 25 PSF, SUPERIMPOSED ROOF DEAD LOAD, ROOFING = 2.5 PSF (TOP CHORD)...

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK...

Table with columns: DSGN, DR, CHK, APVD, 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.



CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON

GENERAL STRUCTURAL NOTES - SHEET 2

Table with columns: SHEET, DWG, DATE, PROJ.

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

GENERAL NOTES

1. THE QUALITY ASSURANCE PLAN DRAWINGS PROVIDE PROJECT COMPLIANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE (IBC) CHAPTER 17 FOR SPECIAL INSPECTION, STRUCTURAL OBSERVATION, AND QUALITY ASSURANCE FOR WIND AND SEISMIC RESISTANCE AS APPLICABLE. THIS INSPECTION IS OWNER FURNISHED.
2. STANDARD SPECIAL INSPECTION REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS ARE CONTAINED IN TABLE 1.
3. STANDARD SPECIAL INSPECTION REQUIREMENTS FOR STRUCTURAL COMPONENTS, IRREGARDLESS OF WIND OR SEISMIC DESIGN CATEGORIES, ARE CONTAINED IN TABLE 2. STANDARD TESTING REQUIREMENTS FOR STRUCTURAL COMPONENTS ARE CONTAINED IN TABLE 3.
4. PROJECT SPECIFIC REQUIREMENTS FOR STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORIES C, D, E, OR F ARE CONTAINED IN TABLE 4. ADDITIONAL TESTING REQUIREMENTS FOR STRUCTURAL RESISTANCE ARE CONTAINED IN TABLE 6.
5. PROJECT SPECIFIC REQUIREMENTS FOR STRUCTURES SUBJECT TO BASIC WIND SPEEDS IN EXCESS OF 100 MPH ARE CONTAINED IN TABLE 5. (NOT REQUIRED FOR THIS CONTRACT)
6. FOR ADDITIONAL REQUIREMENTS, REFER TO SPECIFICATION SECTION 01450, QUALITY ASSURANCE AND INSPECTION. THESE INCLUDE:
 - A. CONTRACTOR'S REQUIREMENTS TO PROVIDE ACCESS TO THE WORK FOR REQUIRED INSPECTIONS, AND TO PROVIDE NOTICE OF REQUIRED INSPECTIONS AND STRUCTURAL OBSERVATION.
 - B. CONTRACTOR'S STATEMENT OF RESPONSIBILITY FOR WORK TO BE PERFORMED ON SYSTEMS DESIGNATED UNDER THE QUALITY ASSURANCE PLAN FOR WIND OR SEISMIC RESISTANCE.
 - C. CONTRACTOR'S STATEMENT OF RESPONSIBILITY FOR WORK TO BE PERFORMED ON SYSTEMS DESIGNATED UNDER THE QUALITY ASSURANCE PLAN FOR WIND OR SEISMIC RESISTANCE.
 - D. DEFINITIONS AND TERMINOLOGY USED IN THIS PLAN.

SPECIAL INSPECTION

1. SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH IBC SECTION 1704 TOGETHER WITH LOCAL AND STATE AMENDMENTS. REFER TO THE TABLES CONTAINED ON THESE GENERAL SHEETS FOR PROJECT SPECIFIC INSPECTION TYPES AND FREQUENCIES.
2. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY. THE OWNER WILL SECURE AND PAY FOR THE SERVICES OF THE AGENCY TO PERFORM ALL SPECIAL INSPECTION AND ASSOCIATED TESTS. INSPECTORS FOR EACH SYSTEM AND MATERIAL SHALL BE INTERNATIONAL CODE COUNCIL (ICC) CERTIFIED OR OTHERWISE APPROVED BY THE BUILDING OFFICIAL.
3. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONTRACT DOCUMENTS AND SUBMIT RECORDS OF INSPECTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
4. SPECIAL INSPECTION AND ASSOCIATED TESTING REPORTS SHALL BE SUBMITTED TO THE ENGINEER, CONTRACTOR, BUILDING OFFICIAL, AND OWNER WITHIN ONE WEEK OF INSPECTION OR WITHIN ONE WEEK OF TEST COMPLETION. THE ENGINEER WILL BE NOTIFIED BY PHONE WITHIN 24 HOURS UPON FINDING DEFICIENCIES REQUIRING IMMEDIATE ATTENTION. INSPECTIONS FOR WHICH REPORTING SHALL BE REQUIRED ARE NOTED IN THE TABLES CONTAINED ON THIS PLAN.
5. AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF PREVIOUSLY NOTED DISCREPANCIES SHALL BE SUBMITTED.

STRUCTURAL OBSERVATION

1. STRUCTURAL OBSERVATION SHALL BE IN ACCORDANCE WITH IBC SECTION 1709 TOGETHER WITH LOCAL AND STATE AMENDMENTS. REFER TO PROJECT SPECIFIC NOTES ON THIS SHEET.
2. ONSITE STRUCTURAL OBSERVATION WILL BE PERFORMED AT LEAST ONCE A MONTH, PLUS AT COMPLETION, FOR EACH IDENTIFIED SEISMIC FORCE-OR WIND FORCE-RESISTING SYSTEM IDENTIFIED, INCLUDING FOUNDATIONS AND CONNECTIONS. REFER TO THE GENERAL STRUCTURAL NOTES, FOR THE BASIC SEISMIC- AND WIND-RESISTING SYSTEMS FOR THE STRUCTURES INCLUDED IN THE WORK.
3. STRUCTURAL OBSERVATION WILL BE PERFORMED BY THE REGISTERED PROJECT DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR ANY REQUIRED SPECIAL INSPECTIONS OR INSPECTIONS BY THE BUILDING OFFICIAL.
4. STRUCTURAL OBSERVATION REPORTS, NOTING ANY DEFICIENCIES, WILL BE DELIVERED TO THE CONTRACTOR, BUILDING OFFICIAL, AND OWNER WITHIN ONE WEEK OF THE OBSERVATION. THE CONTRACTOR WILL BE NOTIFIED ON-SITE OR BY PHONE WITHIN 24 HOURS UPON FINDING DEFICIENCIES.
5. AT THE CONCLUSION OF CONSTRUCTION, A WRITTEN STATEMENT WILL BE PROVIDED TO VERIFY THAT THE STRUCTURAL OBSERVATION SITE VISITS WERE MADE AND WHETHER THERE REMAIN ANY STRUCTURAL DEFICIENCIES THAT HAVE NOT BEEN RESOLVED.
6. STRUCTURAL OBSERVATION SHALL INCLUDE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM FOR EACH STRUCTURE CONTAINED IN THE WORK. THE CONTRACTOR SHALL SCHEDULE AND FACILITATE STRUCTURAL OBSERVATION INCLUDING THE FOLLOWING:
 - A. FOUNDATION REINFORCING STEEL, WATERSTOPS, EMBEDS, AND SIMILAR ITEMS PRIOR TO CONCRETE PLACEMENT.
 - B. WALL TO FOUNDATION CONNECTIONS PRIOR TO FORM CLOSURE FOR ALL MATERIALS.

STRUCTURAL OBSERVATION CONTINUED

- C. CONCRETE SHEAR WALLS PRIOR TO CONCRETE PLACEMENT.
- D. ELEVATED CONCRETE SLABS AND BEAMS PRIOR TO CONCRETE PLACEMENT.
- E. MASONRY WALL, BEAM, PIER, AND COLUMN REINFORCING STEEL PRIOR TO GROUTING AND PRIOR TO CLOSING OF CLEANOUTS.
- F. SYSTEM CONNECTION EMBEDS PRIOR TO GROUT OR CONCRETE PLACEMENT.
- G. CONCRETE WALL TO FLOOR AND ROOF CONNECTIONS PRIOR TO FORM CLOSURE OR OTHER COVER.
- H. STEEL DECK WELDING AND OTHER CONNECTIONS PRIOR TO INSTALLATION OF CONCRETE TOPPING SLABS OR ROOFING.
- I. STEEL DRAG STRUT AND COLLECTOR CONNECTIONS PRIOR TO COVER.
- J. ALL OTHER WALL ANCHORAGE CONNECTIONS FOR MATERIALS NOT SPECIFICALLY IDENTIFIED ABOVE.

QUALITY ASSURANCE FOR WIND RESISTANCE

1. QUALITY ASSURANCE PLAN REQUIREMENTS FOR WIND RESISTANCE IN ACCORDANCE WITH IBC SECTION 1706 ARE NOT APPLICABLE TO THIS PROJECT.

QUALITY ASSURANCE FOR SEISMIC RESISTANCE

1. QUALITY ASSURANCE PLAN REQUIREMENTS FOR SEISMIC RESISTANCE SHALL BE IN ACCORDANCE WITH IBC SECTION 1705 TOGETHER WITH LOCAL AND STATE AMENDMENTS.
2. QUALITY ASSURANCE PLAN REQUIREMENTS SHALL APPLY TO THE FOLLOWING:
 - A. SEISMIC FORCE-RESISTING SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F. REFER TO GENERAL STRUCTURAL NOTES, DRAWINGS 01-G-08 AND 01-G-09, FOR BASIC SEISMIC FORCE-RESISTING SYSTEMS FOR EACH STRUCTURE AND DESIGNATED SEISMIC DESIGN CATEGORY.
 - B. DESIGNATED SEISMIC SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E OR F.
 - C. HVAC DUCTWORK CONTAINING HAZARDOUS MATERIALS AND ASSOCIATED ANCHORAGE; PIPING SYSTEMS AND MECHANICAL UNITS CONTAINING FLAMMABLE, COMBUSTIBLE OR HIGHLY TOXIC MATERIALS, AND ANCHORAGE OF ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F.
 - D. EXTERIOR WALL PANELS AND THEIR ANCHORAGE, SUSPENDED CEILING SYSTEMS AND THEIR ANCHORAGE, ACCESS FLOORS AND THEIR ANCHORAGE, AND STEEL STORAGE RACKS AND THEIR ANCHORAGE IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E OR F.
 - E. ALL ELECTRICAL EQUIPMENT IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY E OR F.
3. MAIN SYSTEMS REQUIRED TO BE COVERED UNDER PROJECT QUALITY ASSURANCE REQUIREMENTS INCLUDE THE FOLLOWING TOGETHER WITH THEIR CONNECTIONS. REFER TO SPECIFICATION 01450, QUALITY ASSURANCE AND INSPECTION.
 - A. OUTFALL
 - B. FLOW CONTROL STRUCTURE
 - C. INFLUENT PUMP STATION
 - D. HEADWORKS
 - E. VERTICAL LOOP REACTORS
 - F. AERATION BLOWER BUILDING
 - G. INTERCHANGE REACTOR BLOWER BUILDING
 - H. MIXED LIQUOR FLOW SPLIT STRUCTURE
 - I. NEW SECONDARY CLARIFIERS
 - J. SECONDARY EFFLUENT JUNCTION BOXES
 - K. CHLORINE CONTACT BASINS
 - L. DISINFECTION BUILDING AND W3 PUMP STATION
 - M. INTERCHANGE REACTORS/AEROBIC DIGESTERS
 - N. CONTROL BUILDING
 - O. VLR ELECTRICAL ENCLOSURE

**TABLE 1
REQUIRED NON-STRUCTURAL SPECIAL INSPECTION
REFER TO SPECIFICATION SECTION 01451**

SYSTEM OR MATERIAL	2003 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	REQUIRED REPORTING BY SPECIAL INSPECTOR TO DESIGNATED DISTRIBUTION LIST	COMMENTS	TESTING FOR SPECIAL INSPECTION
GEOTECHNICAL							
1. SOILS:							
A. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	1704.7.1, 1803.5, 1803.6	GEOTECHNICAL REPORT	X		X	BY GEOTECHNICAL ENGINEER OF RECORD.	SEE TABLE 3 FOR DENSITY TEST REQUIREMENTS
B. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	1704.7.1	GEOTECHNICAL REPORT	X		X	BY GEOTECHNICAL ENGINEER OF RECORD.	SEE TABLE 3 FOR DENSITY TEST REQUIREMENTS
C. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS (SEE NOTE 20)	1704.7.2	GEOTECHNICAL REPORT	X		X	BY GEOTECHNICAL ENGINEER OF RECORD.	SEE TABLE 3 FOR GRADATION TEST REQUIREMENTS
D. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	1704.7.2, 1704.7.3	GEOTECHNICAL REPORT		X	X	BY GEOTECHNICAL ENGINEER OF RECORD.	SEE TABLE 3 FOR DENSITY TEST REQUIREMENTS
E. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	1704.7.1	GEOTECHNICAL REPORT	X		X	BY GEOTECHNICAL ENGINEER OF RECORD.	SEE TABLE 3 FOR DENSITY TEST REQUIREMENTS
BUILDING MECHANICAL							
1. INSTALLATION OF SMOKE CONTROL SYSTEMS	1704.14		X		X		
GENERAL							
3. INSTALLATION OF MATERIALS THAT REQUIRE ADDITIONAL MANUFACTURER'S INSTRUCTIONS BEYOND CODE REQUIREMENTS	1703.4.2, 1704.13 ITEM 3	ICC-ES EVALUATION REPORTS		X	X	ANCHORS INSTALLED IN HARDENED CONCRETE	
STRUCTURAL							
SEE TABLE 2.							

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY MARK J. MERKLEIN STATE OF OREGON, P.E. NO. 58,357.

DSGN	MJ MERKLEIN						
DR	KJ DAVIS						
CHK	SM FREY	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
QUALITY ASSURANCE PLAN
SHEET 1

SHEET	11
DWG	01-G-11
DATE	MAY 19 2006
PROJ	326918

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**TABLE 2
REQUIRED STRUCTURAL SPECIAL INSPECTION
REFER TO SPECIFICATION SECTION 01451**

SYSTEM	2003 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	REQUIRED REPORTING BY SPECIAL INSPECTOR TO DESIGNATED DISTRIBUTION LIST	COMMENTS	TESTING FOR SPECIAL INSPECTION
CONCRETE							
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	1704.4, 1903.5, 1907.1, 1907.7, 1914.4	ACI 318: 3.5, 7.1-7.7	X		X		
2. INSPECTION OF REINFORCING STEEL WELDING	1704.4, 1903.5.2					SEE STEEL CONSTRUCTION FOR WELDING INSPECTION REQUIREMENTS	
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED	1704.4, 1912.5			X	X		
4. VERIFY USE OF REQUIRED DESIGN MIX	1704.4, 1904, 1905.2-1905.4, 1914.2, 1914.3	ACI 318: Ch. 4, 5.2-5.4	X		X		
5. AT THE TIME FRESH CONCRETE IS PLACED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	1704.4, 1905.6, 1914.10	ASTM C 172, ASTM C 31, ACI 318: 5.6, 5.8		X	X		SEE TABLE 3 FOR CONCRETE TEST REQUIREMENTS
6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	1704.4, 1905.9, 1905.10, 1914.6, 1914.7, 1914.8	ACI 318: 5.9, 5.10		X	X		
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	1704.4, 1905.11-1905.13, 1914.9	ACI 318: 5.11-5.13	X		X		
11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	1906.1.1	ACI 318: 6.1.1	X		X		
MASONRY LEVEL 1							
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:							
A. PROPORTIONS OF SITE-PREPARED MORTAR	1704.5.2	ACI 530.1: Art. 2.6A	X		X		
B. CONSTRUCTION OF MORTAR JOINTS	1704.5.2	ACI 530.1: Art. 3.3B	X		X		
C. LOCATION OF REINFORCEMENT AND CONNECTORS	1704.5.2	ACI 530.1: Art. 3.4, 3.6A	X		X		

**TABLE 2 CONT
REQUIRED STRUCTURAL SPECIAL INSPECTION
REFER TO SPECIFICATION SECTION 01451**

SYSTEM	2003 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	REQUIRED REPORTING BY SPECIAL INSPECTOR TO DESIGNATED DISTRIBUTION LIST	COMMENTS	TESTING FOR SPECIAL INSPECTION
MASONRY LEVEL 1 CONT							
2. THE INSPECTION PROGRAM SHALL VERIFY:							
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	1704.5.2	ACI 530.1: Art. 3.3G	X		X		
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	1704.5.2	ACI 530: Sec. 1.2.2(e), 2.1.4, 3.1.6	X		X		
C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT	1704.5.2	ACI 530: Sec. 1.13 ACI 530.1: Art. 2.4, 3.4	X		X		
D. WELDING OF REINFORCING BARS	1704.5.2	ACI 530: Sec. 2.1.10.6.2, 3.3.3.4(b)		X	X	SEE STEEL CONSTRUCTION FOR WELDING INSPECTION REQUIREMENTS	
E. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F)	1704.5.2, 2104.3, 2104.4	ACI 530.1: Art. 1.8C, 1.8D	X		X		
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:							
A. GROUT SPACE IS CLEAN	1704.5.2	ACI 530.1: Art. 3.2D	X		X		
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES	1704.5.2	ACI 530: Sec. 1.13 ACI 530.1: Art. 3.4	X		X		
C. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	1704.5.2	ACI 530.1: Art. 2.6B	X		X		
D. CONSTRUCTION OF MORTAR JOINTS	1704.5.2	ACI 530.1: Art. 3.3B	X		X		
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS	1704.5.2	ACI 530.1: Art. 3.5		X	X		
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	1704.5.2, 2105.2.2, 2105.3	ACI 530.1: Art. 1.4		X	X		SEE TABLE 3 FOR UNIT STRENGTH TESTS (PRISM TEST) FOR MASONRY
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED	1704.5.2	ACI 530.1: Art. 1.5	X		X		
STEEL							
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:							
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	1704.3	Applicable ASTM Material Specifications; AISC 360: Sec. A3.3	X		X		
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	1704.3		X		X		
2. INSPECTION OF HIGH-STRENGTH BOLTING:							
A. BEARING-TYPE CONNECTIONS	1704.3.3	AISC 360: Sec. M2.5	X		X		
B. SLIP-CRITICAL CONNECTIONS	1704.3.3	AISC 360: Sec. M2.5		X	X		

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED BY/ON BEHALF OF MARI J MERKLEIN STATE OF OREGON, P.E. NO. 59,387.

DSGN	M.J. MERKLEIN
DR	K.J. DAVIS
CHK	S.M. FREY
APVD	C.W. MASSIE

NO.	DATE
	01/20/10

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
QUALITY ASSURANCE PLAN
SHEET 2

SHEET	12
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TABLE 2 CONT
REQUIRED STRUCTURAL SPECIAL INSPECTION
REFER TO SPECIFICATION SECTION 01451

SYSTEM	2003 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	REQUIRED REPORTING BY SPECIAL INSPECTOR TO DESIGNATED DISTRIBUTION LIST	COMMENTS	TESTING FOR SPECIAL INSPECTION
STEEL CONT							
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:							
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	1704.3, 2203.1	ASTM A 6 or ASTM A 568 AISC 360: Sec. M5.5			X		
B. MANUFACTURERS' CERTIFIED MILL TEST REPORTS	1704.3, 2203.1	ASTM A 6 or ASTM A 568 AISC 360: Sec. M5.5			X		
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:							
A. IDENTIFICATION MARKINGS CONFORM TO AWS SPECIFICATIONS IN THE APPROVED CONSTRUCTION DOCUMENTS	1704.3	AISC 360: Sec. A3.5 AWS D1.1: Sec. 6			X		
B. MANUFACTURER'S CERTIFICATES OF COMPLIANCE REQUIRED	1704.3	AISC 360: Sec. A3.5 AWS D1.1: Sec. 6			X		
5.A. INSPECTION OF WELDING, STRUCTURAL STEEL:							
1. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	1704.3.1	AWS D1.1		X	X		
2. MULTI-PASS FILLET WELDS	1704.3.1	AWS D1.1		X	X		
3. SINGLE-PASS FILLET WELDS > 5/16"	1704.3.1	AWS D1.1		X	X		
4. SINGLE-PASS FILLET WELDS <= 5/16"	1704.3.1	AWS D1.1	X		X		
5. FLOOR AND DECK WELDS	1704.3	AWS D1.3	X		X		
5.B. INSPECTION OF WELDING, REINFORCING STEEL:							
1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	1704.3, 1903.5.2	AWS D1.4 ACI 318: 3.5.2	X		X		
2. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT	1704.3, 1903.5.2	AWS D1.4 ACI 318: 3.5.2		X	X		
3. SHEAR REINFORCEMENT	1704.3, 1903.5.2	AWS D1.4 ACI 318: 3.5.2		X	X		
4. OTHER REINFORCING STEEL	1704.3, 1903.5.2	AWS D1.4 ACI 318: 3.5.2	X		X		

TABLE 2 CONT
REQUIRED STRUCTURAL SPECIAL INSPECTION
REFER TO SPECIFICATION SECTION 01451

SYSTEM	2003 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	REQUIRED REPORTING BY SPECIAL INSPECTOR TO DESIGNATED DISTRIBUTION LIST	COMMENTS	TESTING FOR SPECIAL INSPECTION
ALUMINUM							
1. MATERIAL VERIFICATION OF ALUMINUM:							
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	1704.13 ITEM 2				X		
B. MANUFACTURERS' CERTIFIED MILL TEST REPORTS	1704.13 ITEM 2				X		
2. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:							
A. IDENTIFICATION MARKINGS CONFORM TO AWS SPECIFICATIONS IN THE APPROVED CONSTRUCTION DOCUMENTS	1704.13 ITEM 2				X		
B. MANUFACTURER'S CERTIFICATES OF COMPLIANCE REQUIRED	1704.13 ITEM 2				X		
3. INSPECTION OF WELDING:							
A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	1704.13 ITEM 2	AWS D1.2		X	X		
B. MULTI-PASS FILLET WELDS	1704.13 ITEM 2	AWS D1.2		X	X		
C. SINGLE-PASS FILLET WELDS	1704.13 ITEM 2	AWS D1.2	X		X		
D. WELDED SHEET FOR ALUMINUM MEMBERS	1704.13 ITEM 2	AWS D1.2	X		X		

NOTES:
1. PERIODIC INSPECTION IS DEFINED AS OBSERVATION BY THE SPECIAL INSPECTOR OF ALL IN-PLACE MATERIALS, EITHER DURING THEIR PLACEMENT OR UPON THE COMPLETION OF THEIR PLACEMENT. THE COMPLETION OBSERVATION SHALL BE PERFORMED SO THAT WORK CAN BE CORRECTED PRIOR TO OTHER RELATED WORK PROCEEDING. ADDITIONALLY, THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE THE FIRST FIVE PERCENT OF EACH TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION.

THE CONTRACT DOCUMENTS DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED BY THE ARCHITECT IN STATE OF OREGON, P.L. NO. 34,397.

DSGN	M.J. MERKLEIN
DR	K.J. DAVIS
CHK	S.M. FREY
APVD	C.W. MASSIE

NO. DATE

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
QUALITY ASSURANCE PLAN
SHEET 3

SHEET	13
DWG	01-G-13
DATE	MAY 19 2006
PROJ	326918

TABLE 3 TESTING FOR REQUIRED SPECIAL INSPECTION REFER TO SPECIFICATION SECTION 01451							
MATERIAL	TYPE OR SCOPE	STANDARD	2003 IBC CODE REFERENCE	FREQUENCY	BY WHOM	REQUIRED REPORTING TO DESIGNATED DISTRIBUTION LIST	COMMENTS
GEOTECHNICAL							
CONTROLLED FILL	GRADATION	ASTM D422	1704.7.2	ONE SAMPLE PER 500 TONS OF FINISHED PRODUCT	SPECIAL INSPECTOR	X	
CONTROLLED FILL	DENSITY	ASTM D2922	1704.7.2	TWO TESTS ON EVERY LIFT	SPECIAL INSPECTOR	X	
PREPARED SUBGRADE	DENSITY	ASTM D2922	1704.7.1	TWO TESTS FOR EACH STRUCTURE	SPECIAL INSPECTOR	X	
CONCRETE							
CONCRETE	STRENGTH	ASTM C39	1704.4, 1905.6	ONCE EACH SHIFT, BUT NOT LESS THAN ONE SAMPLE FOR EACH 100 CUBIC YARDS PLACED	SPECIAL INSPECTOR	X	
CONCRETE	SLUMP	ASTM C143	1704.4	ONE SAMPLE PER STRENGTH TEST	SPECIAL INSPECTOR	X	
CONCRETE	AIR CONTENT	ASTM C231	1704.4	ONE SAMPLE PER STRENGTH TEST	SPECIAL INSPECTOR	X	
CONCRETE	TEMPERATURE	ASTM C1064	1704.4	ONE SAMPLE PER STRENGTH TEST	SPECIAL INSPECTOR	X	
MASONRY							
MASONRY	UNIT STRENGTH	ASTM C140	2105.2.2.1.2	TEST 6 UNITS PER EVERY 5000 OR FRACTION THEREOF PRIOR TO CONSTRUCTION	SPECIAL INSPECTOR	X	
MASONRY	COMPRESSIVE STRENGTH OF GROUT	ASTM C1019	2105.2.2.1.2	THREE SAMPLES PRIOR TO CONSTRUCTION	SPECIAL INSPECTOR	X	
MASONRY	PRISM	ASTM C1314	2105.2.2.2	TEST FIVE PRISMS PRIOR TO CONSTRUCTION	SPECIAL INSPECTOR	X	
STEEL							
STRUCTURAL STEEL	ULTRASONIC OR RADIOGRAPHIC NONDESTRUCTIVE TESTING	AWS D1.1	1704.3.1	10% OF ALL GROOVE AND BUTT JOINT WELDS	CONTRACTOR'S CERTIFIED WELDING INSPECTOR	X	
REINFORCING STEEL	MAGNETIC PARTICLE NONDESTRUCTIVE TESTING	AWS D1.4	1903.5.2	ALL WELDED REINFORCING BAR SPLICES	CONTRACTOR'S CERTIFIED WELDING INSPECTOR	X	

TABLE 4 REQUIRED SPECIAL INSPECTION FOR SEISMIC RESISTANCE FOR STRUCTURAL SYSTEMS REFER TO TABLE 2 FOR STANDARD STRUCTURAL SPECIAL INSPECTION REQUIREMENTS							
The Seismic Design Category (SDC) for this Project is D.							
SYSTEM	2003 IBC CODE REFERENCE	STANDARD OR CODE	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	REPORTING BY SPECIAL INSPECTOR TO DESIGNATED DISTRIBUTION LIST	COMMENTS FOR DETAILS, REFER TO SPECIFICATION SECTION 01451	TESTING FOR SPECIAL INSPECTION
ARCHITECTURAL							
INSTALLATION AND ANCHORAGE OF SUSPENDED CEILING SYSTEMS	1705.1 ITEM 4.4.3, 1707.6		X		X		
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED ARCHITECTURAL SYSTEMS AND THEIR COMPONENTS	1707.1 ITEM 2		X		X		
ELECTRICAL							
INSTALLATION OF ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS	1707.8		X		X	NOTES 2 & 3	
INSTALLATION OF ELECTRICAL MOTORS, TRANSFORMERS, SWITCH-GEAR UNITS, SUBSTATIONS AND MOTOR CONTROL CENTERS WITH $I_p = 1.5$	1707.8.1 ITEM 2		X		X	NOTES 2 & 3	
INSTALLATION OF SEISMIC SUPPORTS FOR ELECTRICAL SYSTEMS AND THEIR COMPONENTS WITH $I_p = 1.5$	1707.8.1		X		X	NOTES 2 & 3	
PROCESS MECHANICAL							
INSTALLATION OF PIPING SYSTEM MEANT TO CARRY FLAMMABLE, COMBUSTIBLE OR HIGHLY TOXIC CONTENTS AND ITS ASSOCIATED MECHANICAL UNITS	1707.8		X		X		
INSTALLATION OF OTHER EQUIPMENT REQUIRED TO BE OPERATIONAL AFTER AN EARTHQUAKE	1707.8		X		X	NOTES 2 & 3	
INSTALLATION OF PIPING DISTRIBUTION SYSTEMS 3-INCHES OR MORE IN DIAMETER WITH $I_p = 1.5$	1707.8.1 ITEM 4		X		X		
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED MECHANICAL SYSTEMS AND THEIR COMPONENTS	1707.1 ITEM 2		X		X	NOTES 2 & 3	
BUILDING MECHANICAL							
INSTALLATION OF FIRE PROTECTION SPRINKLER SYSTEM	1707.1 ITEM 2		X				
INSTALLATION OF PIPING DISTRIBUTION SYSTEMS 3-INCHES OR MORE IN DIAMETER	1707.7.1 ITEM 4		X		X		
INSTALLATION OF OTHER SEISMIC SUPPORTS FOR DESIGNATED MECHANICAL SYSTEMS AND THEIR COMPONENTS	1707.1 ITEM 2		X		X	NOTES 2 & 3	
STRUCTURAL							
STRUCTURAL STEEL WELDING IN SEISMIC FORCE-RESISTING SYSTEMS EXCEPT FOR FLOOR/ROOF DECK WELDING AND SINGLE PASS FILLET WELDS $\leq 5/16"$	1707.2	AISC 341		X	X		SEE TABLE 6 FOR NONDESTRUCTIVE TESTING OF WELDS
COLD FORMED STEEL FRAMING: WELDING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM	1707.4		X		X		

NOTES:
1. PERIODIC INSPECTION IS DEFINED AS OBSERVATION BY THE SPECIAL INSPECTOR OF ALL IN-PLACE MATERIALS, EITHER DURING THEIR PLACEMENT OR UPON THE COMPLETION OF THEIR PLACEMENT. THE COMPLETION OBSERVATION SHALL BE PERFORMED SO THAT WORK CAN BE CORRECTED PRIOR TO OTHER RELATED WORK PROCEEDING. ADDITIONALLY, THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE THE FIRST FIVE PERCENT OF EACH TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION.
2. TESTING OF SYSTEMS AND THEIR ANCHORAGE SHALL BE IN CONFORMANCE WITH 2006 IBC SECTION 1708.5.
3. CERTIFICATION OF SYSTEMS AND THEIR ANCHORAGE SHALL BE IN CONFORMANCE WITH 2006 IBC SECTION 1708.5.

THE CONTRACT DOCUMENT DRAWINGS AND PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK, THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED BY OR BY MARK J. MERKLEIN, STATE OF OREGON, P.L. NO. 58,357.

DSGN	MJ MERKLEIN
DR	KJ DAVIS
CHK	SM FREY
APVD	CW MASSIE

01/20/10

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CH2MHILL  **CAROLLO**
engineers

CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
QUALITY ASSURANCE PLAN
SHEET 4

SHEET	14
DWG	01-G-14
DATE	MAY 19 2006
PROJ	326918

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**TABLE 6
TESTING FOR SEISMIC RESISTANCE
REFER TO SPECIFICATION SECTION 01451**

MATERIAL	TYPE OR SCOPE	STANDARD	2003 IBC CODE REFERENCE	FREQUENCY	BY WHOM	REQUIRED REPORTING TO DESIGNATED DISTRIBUTION LIST	COMMENTS
REINFORCING STEEL							
REINFORCING STEEL USED TO RESIST FLEXURAL, SHEAR AND AXIAL FORCES IN REINFORCED CONCRETE INTERMEDIATE FRAMES, SPECIAL MOMENT FRAMES AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE OR REINFORCED MASONRY SHEAR WALLS	CERTIFIED MILL TEST REPORTS		1708.3	EACH SHIPMENT	MANUFACTURER	X	
ASTM A615 REINFORCING STEEL USED TO RESIST FLEXURAL AND AXIAL FORCES IN SPECIAL MOMENT FRAMES AND IN BOUNDARY ELEMENTS OF SHEAR WALLS	MEET TESTING REQUIREMENTS	ACI 318: Sec. 21.2.5	1708.3	EACH SHIPMENT	MANUFACTURER	X	
REINFORCING STEEL MATERIAL IF ASTM A615 REINFORCING STEEL IS TO BE WELDED	CHEMICAL TEST TO DETERMINE WELDABILITY		1708.3, 1903.5.2	EACH SHIPMENT	MANUFACTURER	X	
MASONRY LEVEL 1							
ENGINEERED MASONRY IN NONESSENTIAL FACILITIES	CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION		1708.1.3	PRIOR TO CONSTRUCTION	MANUFACTURER	X	
ENGINEERED MASONRY IN NONESSENTIAL FACILITIES	UNIT STRENGTH	ASTM C140	1708.1.3, 2105.2.2.1.2	PRIOR TO CONSTRUCTION	SPECIAL INSPECTOR	X	
ENGINEERED MASONRY IN NONESSENTIAL FACILITIES	COMPRESSIVE STRENGTH OF GROUT	ASTM C1019	1708.1.3, 2105.2.2.1.2	PRIOR TO CONSTRUCTION	SPECIAL INSPECTOR	X	
ENGINEERED MASONRY IN NONESSENTIAL FACILITIES	MASONRY PRISM TEST	ASTM C1314	1708.1.3, 2105.2.2.2	PRIOR TO CONSTRUCTION	SPECIAL INSPECTOR	X	
STEEL							
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	NONDESTRUCTIVE TESTING	AISC 341 AWS D1.1	1708.4	CONTINUOUS	SPECIAL INSPECTOR	X	
MULTI-PASS FILLET WELDS	NONDESTRUCTIVE TESTING	AISC 341 AWS D1.1	1708.4	CONTINUOUS	SPECIAL INSPECTOR	X	
SINGLE-PASS FILLET WELDS > 5/16"	NONDESTRUCTIVE TESTING	AISC 341 AWS D1.1	1708.4	CONTINUOUS	SPECIAL INSPECTOR	X	
BASE METAL THICKER THAN 1.5 INCHES WHERE SUBJECT TO THROUGH-THICKNESS WELD SHRINKAGE STRAINS	ULTRASONIC TESTING	ASTM A435 OR A898 (LEVEL 1)	1708.4	CONTINUOUS	SPECIAL INSPECTOR	X	

THE CONTRACT DOCUMENT DRAWINGS AND PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK, THE ORIGINAL DOCUMENTS DRAWINGS, SPECIFICATIONS AND SCHEDULES SHALL BE THE BASIS FOR THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND REVIEWING ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND REVIEWING ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS.

DSGN	MJ MERKLEIN						
DR	KJ DAVIS						
CHK	SM FREY	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
QUALITY ASSURANCE PLAN
SHEET 5

SHEET	15
DWG	01-G-15
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GENERAL SITE NOTES:

- SOURCE OF TOPOGRAPHY SHOWN ON THE CIVIL PLANS ARE BASE MAPS PROVIDED BY K&D ENGINEERING. ADDITIONAL UTILITY MAPPING HAS BEEN ADDED FROM AS-BUILT DATA. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADJUST WORK PLAN ACCORDINGLY PRIOR TO BEGINNING CONSTRUCTION.
- EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
- HORIZONTAL DATUM: NAD (83) 91.
- VERTICAL DATUM: NGVD (29) 47.
- MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE, SEE 410.
- FOR LOCATION OF CONTROL POINT ON STRUCTURES, SEE STRUCTURAL DRAWINGS.
- COORDINATES AND DIMENSIONS SHOWN FOR ROADWAY IMPROVEMENTS ARE TO FACE OF CURB OR EDGE OF PAVEMENT.
- STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE OVERFLOW PARKING AND ON-SITE STORAGE OF MATERIALS. CONTRACTOR'S TRAILERS SHALL BE LOCATED IN TRAILER AREA AS SHOWN ON DWG 05-EC-101. STAGING AND STORAGE AREAS AS SHOWN ON DWGS 05-EC-100 AND 05-EC-101.
- PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY AT ALL TIMES.
- ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
- SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- UNLESS SHOWN ON THE LANDSCAPING PLANS, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE COVERED WITH GRASS AS SPECIFIED IN SECTION 02370.
- CONTRACTOR SHALL SUBMIT A COMPLETE SOIL EROSION CONTROL PLAN FOR DEQ APPROVAL, AS SPECIFIED. SEE EROSION CONTROL GENERAL NOTES ON DRAWING 01-G-017. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION CONTROL DEVICES DURING CONSTRUCTION. CONTRACTOR SHALL TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE EROSION MATERIALS FROM LEAVING THE SITE.
- ALL EXISTING BASE MAPPING SHOWN FOR AREA LOCATION, GRADING, AND YARD PIPING PLANS REFLECT POST-DEMOLITION CONDITIONS. CONTRACTOR SHALL SEE DEMOLITION DRAWINGS FOR EXISTING CONDITIONS. SEE NOTE 1 FOR SOURCE OF EXISTING BASE MAPPING.

GENERAL YARD PIPING AND UTILITIES NOTES:

- EXISTING UNDERGROUND UTILITIES OBTAINED FROM AS-BUILTS AND FROM FIELD SURVEY. CONTRACTOR SHALL POTHOLE AND FIELD VERIFY DEPTH AND LOCATION PRIOR TO EXCAVATION. PROTECT ALL EXISTING UTILITIES TO REMAIN DURING CONSTRUCTION.
- FOR PIPING FLOW STREAM IDENTIFICATION, SEE DRAWING 01-G-21.
- EXISTING PIPING AND EQUIPMENT ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW PIPING AND EQUIPMENT ARE SHOWN HEAVY-LINED.
- UNLESS OTHERWISE SHOWN ALL PIPING SHALL HAVE A MINIMUM OF 3' COVER.
- ALL PIPES SHALL HAVE A CONSTANT SLOPE BETWEEN INVERT ELEVATIONS UNLESS A FITTING IS SHOWN.
- ALL NEW WATER PIPES MUST BE PROPERLY FLUSHED, PRESSURE TESTED, CHLORINATED AND BACTERIOLOGICALLY TESTED, AS SPECIFIED.
- FOR TRENCHING AND BACKFILL, SEE 205.
- FOR SURFACE RESTORATION OF ASPHALT CONCRETE, SEE 2220, FOR GRAVEL ROADS, SEE 2240, AND FOR GRASS, SEE SPECIFICATIONS. INDIVIDUAL THICKNESSES A MINIMUM, OTHERWISE, MATCH EXST PVMT.
- MINIMUM ALLOWABLE CLEARANCE BETWEEN PIPES AT CROSSINGS SHALL BE 3". CONTROLLED LOW STRENGTH FILL SUPPORT IS REQUIRED AS SHOWN ON 2335.
- ALL CONTROL POINTS SHOWN FOR GRAVITY UTILITY SYSTEM STRUCTURES ARE LOCATED AT CENTER OF MANHOLES, FACE OF CURB AT CENTERLINE OF CATCH BASINS, OR CENTER OF AREA DRAINS.

GENERAL NOTE:

- THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.

CIVIL LEGEND

EXISTING	THIS CONTRACT			
	⊙ 158.5	SPOT ELEVATION		
		CONTOUR LINE		
		EMBANKMENT AND SLOPE		
		DRAINAGEWAY OR DITCH		
	■	CATCH BASIN OR INLET		
	— OR —	TRENCH DRAIN		
	OR	SIGN		
	●	MANHOLE		
	⊙	ELECTRICAL MANHOLE		
	⊠	ELECTRIC HANDHOLE		
	●	POST OR GUARD POST		
	→	GUY ANCHOR		
	⊙	FIRE HYDRANT		
	⊙	UTILITY POLE		
	□	LIGHT POLE		
	⊙	BENCH MARK		
	△	SURVEY CONTROL POINT OR POINT OF INTERSECTION		
		BRUSH/TREE LINE		
		TREE		
		PROPERTY LINE		
		CENTER LINE, BUILDING, ROAD, ETC.		
		STAGING OR WORK AREA LIMITS		
	⊙ N 1000.00 E 1000.00	STRUCTURE, BUILDING OR FACILITY LOCATION POINT - COORDINATES		
	⊙ B-1	BORING LOCATION AND NUMBER		
	⊠ TP-2	TEST PIT LOCATION AND NUMBER		
	P-3	PIEZOMETER LOCATION AND NUMBER		
	OR	OR	DEMOLITION	
OR		OR	OR	STRUCTURE, BUILDING OR FACILITY
			ASPHALT CONCRETE PAVEMENT	
			GRAVEL SURFACING	
			CONCRETE PAVEMENT	
			CURB	
			CURB AND GUTTER	
			SINGLE SWING GATE	
			DOUBLE SWING GATE	
			SLIDING GATE	
			GUARD RAIL	
			CHAIN LINK FENCE	
			ARCHITECTURAL FENCE	
			WIRE FENCE	
			CULVERT	

YARD PIPING LEGEND

EXISTING	THIS CONTRACT	
		NOMINAL PIPE DIAMETER
		PIPE USE IDENTIFICATION
		PIPING < 30" DIAMETER
		PIPING ≥ 30" DIAMETER
		EXISTING PIPE TO BE ABANDONED
		EXISTING PIPE TO BE REMOVED
		NON-FREEZE HOSE VALVE (V-X) X = NO. IN SPECIFICATIONS
		NON-FREEZE HOSE VALVE WITH HOSE RACK (V-X) X = NO. IN SPECIFICATIONS
		INDICATOR POST VALVE
		GATE VALVE AND VALVE BOX
		BUTTERFLY VALVE AND VALVE BOX
		PLUG VALVE AND VALVE BOX
		FLEXIBLE COUPLING
		90° ELBOW UP
		90° ELBOW DOWN
		BEND < 90° UP
		BEND < 90° DOWN
		CONCENTRIC REDUCER
		CAP OR PLUG
		CLEANOUT
		FIRE HYDRANT
		BACKFILL CLASS

DSGN	JTASHLEY								
DR	PALONG								
CHK	DJ PETERSON								
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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





CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
CIVIL LEGEND AND GENERAL NOTES


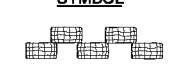
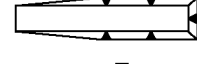
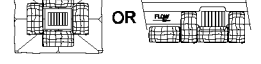


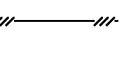


SHEET	16
DWG	01-G-16
DATE	MAY 19 2006
PROJ	326918

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE AN INSTRUMENT OF PROFESSIONAL SERVICE AND THE PROPERTY OF CH2M HILL. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN ANY PLAN OR SPECIFICATION AND NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

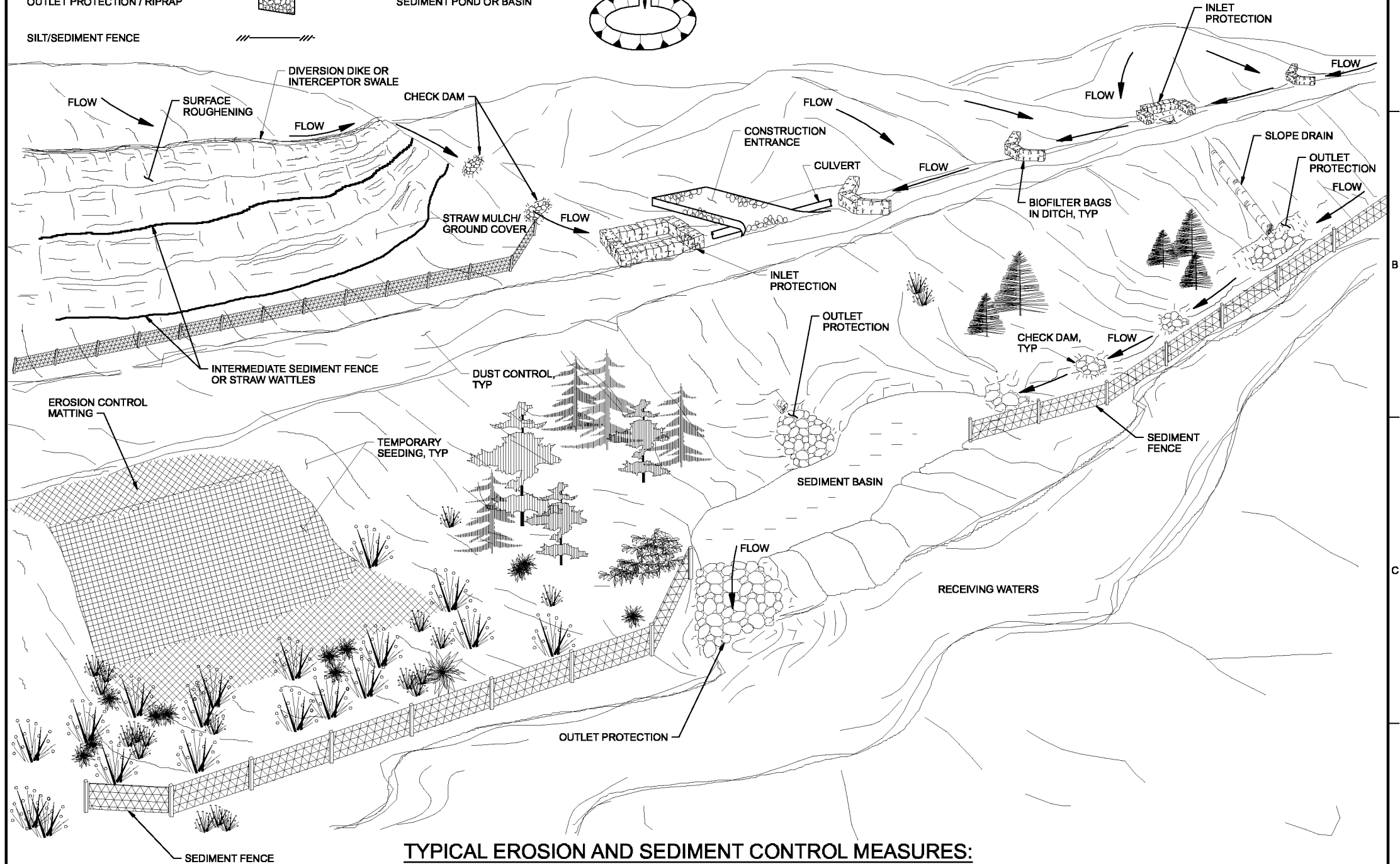
GENERAL EROSION CONTROL NOTES:

- CONTRACTOR SHALL SUBMIT A COMPLETE EROSION AND SEDIMENT CONTROL(ESC) PLAN FOR APPROVAL AS SPECIFIED. SEE SPECIFICATION SECTION 02370 FOR EROSION AND SEDIMENTATION SUBMITTAL REQUIREMENTS. SEE SPECIFICATIONS SECTION 01400 AND 01500 FOR PERMITTING REQUIREMENTS .
- SEE DRAWINGS 05-EC-100 THROUGH 05-EC-101 FOR MINIMUM PROJECT EROSION AND SEDIMENT CONTROL MEASURES. THE INTENT OF THESE PLANS IS TO SHOW THE MINIMUM REQUIRED ESC MEASURES AND THEIR LOCATIONS. CONTRACTOR SHALL SUPPLEMENT THESE PLANS AS NECESSARY TO MEET LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND OPERATIONAL PRIOR TO BEGINNING ANY SITE ACTIVITIES. THE IMPLEMENTATION, CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE LOCAL JURISDICTION, AND VEGETATION IS ESTABLISHED.
- THE BOUNDARIES OF THE CLEARING LIMITS FOR THE PROJECT SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE BOUNDARY MARKINGS SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THE EROSION CONTROL PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
- THE ESC FACILITIES SHOWN ON THE EROSION CONTROL PLANS ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THE ESC FACILITIES SHALL BE UPGRADED AS NEED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT LEAVE THE SITE.
- CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AT ALL TIMES AND TAKE ALL NECESSARY MEASURES TO POSITIVELY PRECLUDE EROSION MATERIALS FROM LEAVING THE SITE.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEY CONTINUE FUNCTIONING.
- AT NO TIME SHALL SEDIMENT BE ALLOWED TO ACCUMULATE MORE THAN 1/3 THE BARRIER HEIGHT. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATIONS SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED GRAVEL CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- PROVIDE AND MAINTAIN DUST CONTROL MEASURES FOR ALL PROPERTIES ADJACENT TO WORK AREAS. ANY HIGH ERODIBLE AREAS OR TEMPORARY SOIL STOCKPILINGS SHALL BE COVERED PER  05-EC-401 
- STORM DRAIN INLETS, BASINS, AND AREA DRAINS SHALL BE PROTECTED PER 05-EC-401 UNTIL PAVEMENT SURFACES ARE COMPLETED AND/OR VEGETATION IS RE-ESTABLISHED.
- PAVEMENT SURFACES AND VEGETATION ARE TO BE PLACED AS RAPIDLY AS POSSIBLE.
- SEEDING SHALL BE PERFORMED NO LATER THAN SEPTEMBER 1ST FOR EACH PHASE OF CONSTRUCTION.
- IF THERE ARE ANY EXPOSED SOILS OR ANY GROUND COVER THAT IS NOT FULLY ESTABLISHED BY OCTOBER 1ST, THEN THE OPEN AREA SHALL BE PROTECTED THROUGH THE WINTER BY MEANS OF WET WEATHER EROSION PREVENTION MEASURES. THESE MEASURES CONSIST OF STRAW MULCH, EROSION CONTROL BLANKETS/MATTING, OR OTHER METHOD(S) AS APPROVED BY LOCAL JURISDICTION.
- UPON PROJECT COMPLETION, CONTRACTOR SHALL RESTORE ALL STAGING AND STOCKPILING AREAS TO EQUAL OR BETTER CONDITION PRIOR TO CONSTRUCTION. ALL TEMPORARY FILLS, SURFACINGS, AND CONSTRUCTION MATERIALS NOT SCHEDULED TO REMAIN SHALL BE REMOVED AND AREAS SHALL BE SEEDDED IN ACCORDANCE WITH SPECIFICATION SECTION 02370, UNLESS SHOWN OTHERWISE ON LANDSCAPING DRAWINGS.
- CONTRACTOR SHALL REMOVE ESC MEASURES ONLY WHEN VEGETATION BECOMES STABILIZED AND IS FULLY ESTABLISHED.

GENERAL EROSION CONTROL LEGEND:

COVER PRACTICES	SYMBOL	COVER PRACTICES	SYMBOL
CONSTRUCTION ENTRANCE		BIOFILTER BAG BARRIER	
TIRE/WHEEL WASH		INLET PROTECTION	
CHECK DAMS		SEDIMENT TRAP (OR SUMP)	
OUTLET PROTECTION / RIPRAP		SEDIMENT POND OR BASIN	
SILT/SEDIMENT FENCE			

LEGEND NOTE:
THIS IS A STANDARD LEGEND SHEET. THEREFORE, ALL THE SYMBOLS SHOWN MIGHT NOT BE USED ON THIS PROJECT.



TYPICAL EROSION AND SEDIMENT CONTROL MEASURES:

NOTE:

THE INTENT OF THIS SKETCH IS TO PROVIDE AN OVERALL PERSPECTIVE OF TYPICAL EROSION CONTROL DEVICES AND METHODS USED DURING CONSTRUCTION. THIS DOES NOT IMPLY THAT THE CONTRACTOR IS TO USE ONLY THE DEVICES SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL PREVENTION TECHNIQUES AND PROVIDING ALL NECESSARY EROSION CONTROL DEVICES THAT MEET LOCAL, STATE, AND FEDERAL REQUIREMENTS.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY JOHN T. ASHLEY STATE OF OREGON, P.E. NO. 60,132PE.

DSGN	JT ASHLEY
DR	JT ASHLEY
CHK	DJ PETERSON
APVD	CW MASSIE

NO. DATE

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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  **CAROLLO**
engineers

CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL

EROSION CONTROL LEGEND
AND GENERAL NOTES

SHEET	17
DWG	01-G-17
DATE	MAY 19 2006
PROJ	326918

FILENAME: 01ng016d_326918.dgn PLOT DATE: 2/26/2010

PLOT TIME: 2:06:19 PM

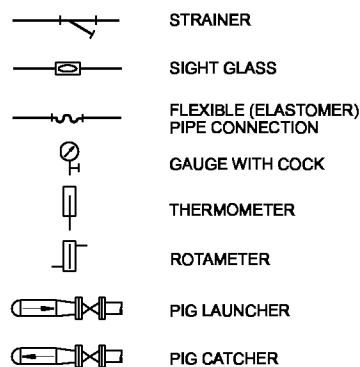
REUSE OF DOCUMENTS: CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

MECHANICAL LEGEND AND NOTES

GENERAL PIPING NOTES

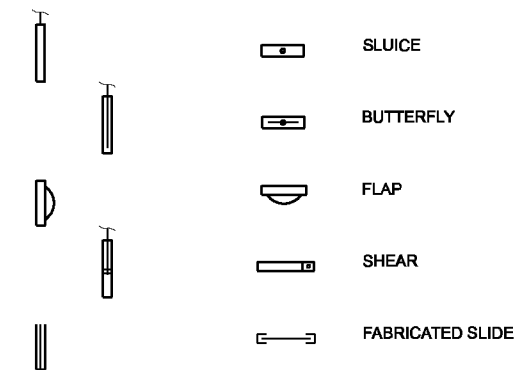
- LAY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS.
- SIZE OF FITTINGS SHOWN ON PLANS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE.
- LOCATION AND NUMBER OF PIPE HANGERS AND PIPE SUPPORTS SHOWN IS APPROXIMATE. CONTRACTOR SHALL DESIGN SUPPORTS AS SPECIFIED.
- ALL JOINTS SHALL BE WATERTIGHT. WALL PIPES SHALL BE USED WHEREVER PIPING PASSES FROM A STRUCTURE TO BACKFILL UNLESS OTHERWISE SHOWN.
- ALL FLEXIBLE CONNECTORS OR FLANGED COUPLING ADAPTERS SHALL BE PROVIDED WITH THRUST PROTECTION UNLESS OTHERWISE NOTED. THRUST PROTECTION SHALL BE ADEQUATE FOR TEST PRESSURES SPECIFIED.
- ALL BURIED PIPING SPECIFIED TO BE PRESSURE TESTED, EXCEPT FLANGED, WELDED, OR SCREWED PIPING, SHALL BE PROVIDED WITH THRUST PROTECTION AS SPECIFIED, UNLESS OTHERWISE NOTED.
- SYMBOLS, LEGENDS, AND PIPE USE IDENTIFICATIONS SHOWN SHALL BE FOLLOWED THROUGHOUT THE PLANS, WHEREVER APPLICABLE. NOT ALL OF THE VARIOUS PIPING COMPONENTS ARE NECESSARILY USED IN THE PROJECT.
- NUMBER AND LOCATION OF UNIONS SHOWN ON PLANS IS ONLY APPROXIMATE. PROVIDE ALL UNIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND MECHANICAL EQUIPMENT.
- WHERE A GROOVED END COUPLING IS SHOWN, IT SHALL BE THE RIGID JOINT TYPE, UNLESS OTHERWISE SPECIFIED. WHERE A FLANGED COUPLING ADAPTER IS SHOWN, A STANDARD FLANGE SHALL BE JOINED TO THE COUPLING ADAPTER.

MISCELLANEOUS PIPING SYMBOLS



GATE SYMBOLS

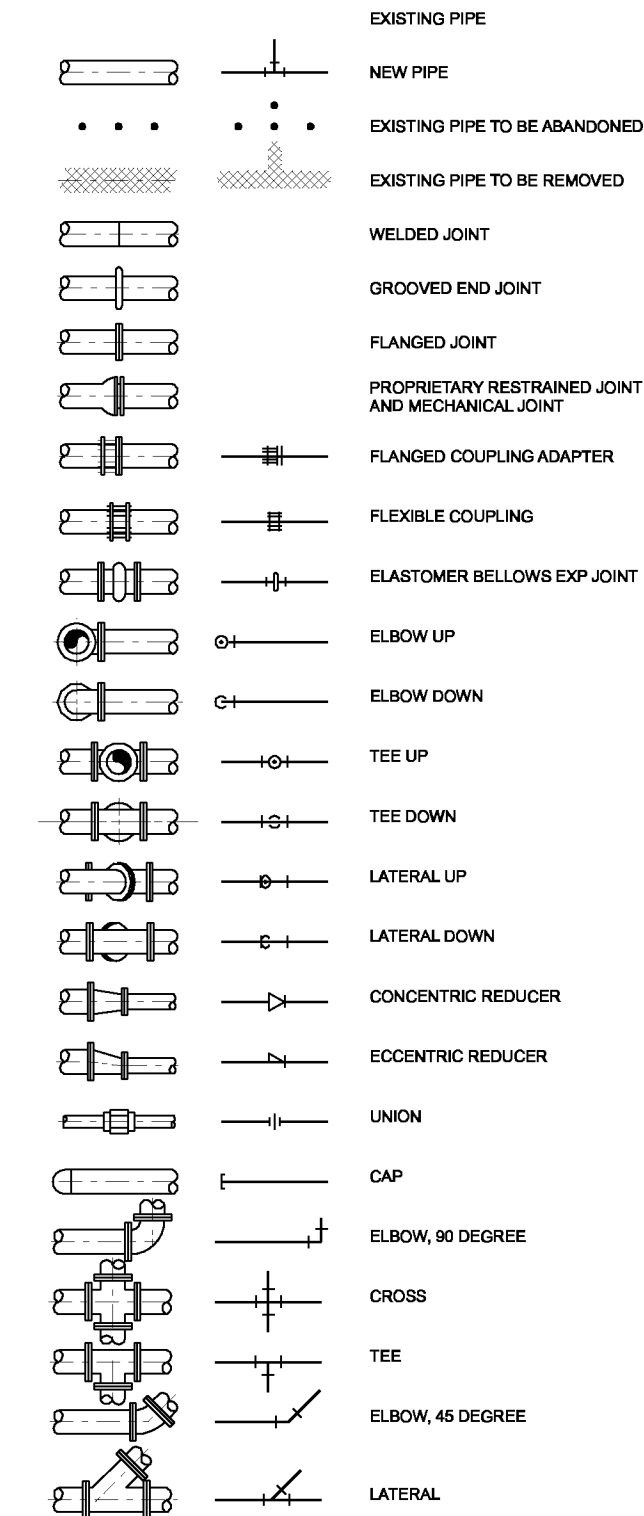
EL VIEW PLAN VIEW



PIPE AND FITTING SYMBOLS

DOUBLE LINE

SINGLE LINE



GENERAL NOTE

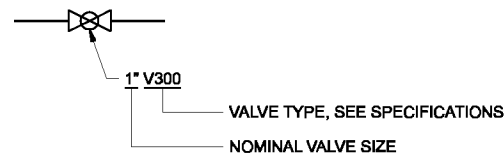
THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.

NOTES:

- ONLY FLANGED END CONNECTIONS ARE SHOWN HERE FOR DOUBLE LINE FITTINGS. FITTINGS WITH OTHER END PATTERNS ARE SHOWN SIMILARLY ON THE CONSTRUCTION DRAWINGS. ALSO SEE PIPING SPECIFICATIONS.
- SYMBOLS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS FOR SPECIFIC END CONNECTIONS FOR SINGLE LINE PIPE AND FITTINGS.
- EXISTING PIPE AND EQUIPMENT IS SHOWN LIGHT-LINED AND/OR SCREENED AND IS NOTED AS EXISTING. NEW PIPING AND EQUIPMENT IS SHOWN DARK-LINED.

VALVE DESIGNATIONS

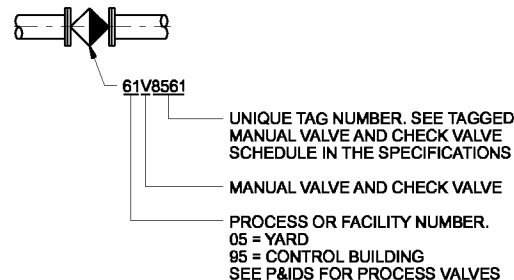
MANUAL VALVES AND CHECK VALVES SMALLER THAN 2 INCH



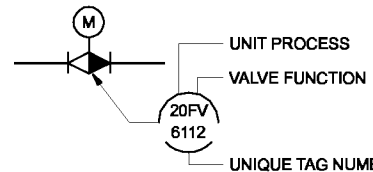
NOTE:

NOT ALL MANUAL VALVE AND CHECK VALVE TYPES ARE DESIGNATED ON THE DRAWINGS. REFER TO THE MANUAL VALVE AND CHECK VALVE SCHEDULE IN THE SPECIFICATIONS FOR VALVE TYPE APPLICATION TO EACH SERVICE.

MANUAL VALVES AND CHECK VALVES 2 INCH AND LARGER



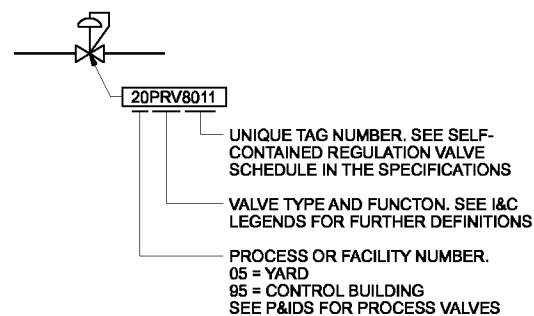
CONTROL VALVES



NOTE:

SEE I&C LEGENDS FOR FURTHER DEFINITIONS AND ACTUATOR TYPES.

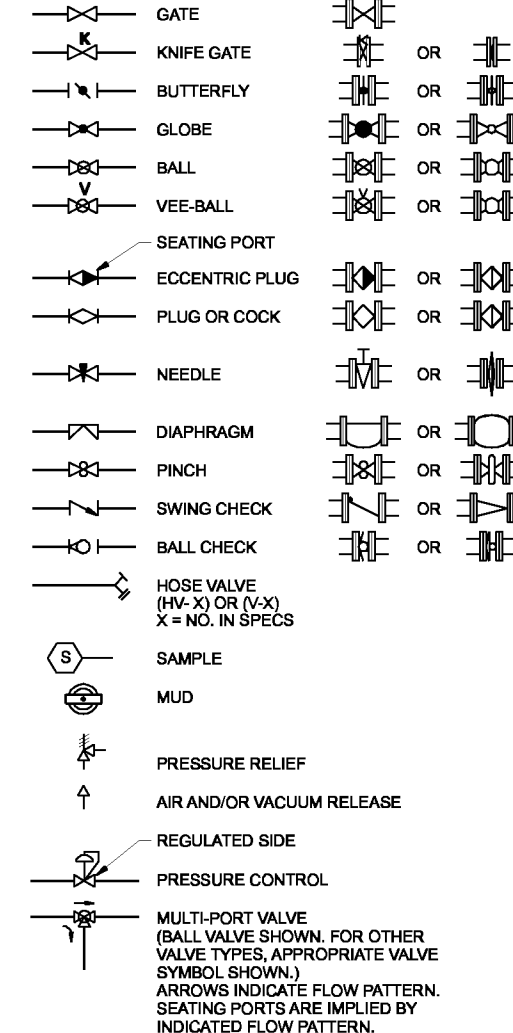
SELF-CONTAINED REGULATING VALVES



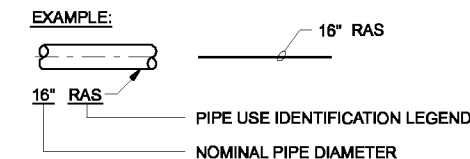
VALVE SYMBOLS

SINGLE LINE

DOUBLE LINE

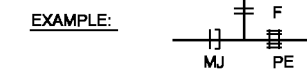


PIPING DESIGNATION



PIPE AND FITTING END PATTERNS

B	BELL	PE	PLAIN END
S	SPIGOT	GE	GROOVED END
F	FLANGE	MJ	MECHANICAL JOINT



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KENNETH G. KLEGG STATE OF OREGON, P.E. NO. 8,978.

DSGN	KG CLEGG
DR	ER BROWN
CHK	BR JOHNSON
APVD	CW MASSIE

NO.	DATE
	01/20/10

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

JMD	SJP
-----	-----

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



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
MECHANICAL LEGEND

SHEET	18
DWG	01-G-18
DATE	MAY 19 2006
PROJ	326918

HVAC EQUIPMENT IDENTIFICATION

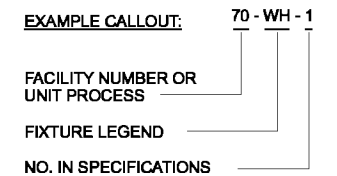
ACC	AIR-COOLED CONDENSER
ACCU	AIR-COOLED CONDENSING UNIT
ACU	AIR CONDITIONING UNIT
ASU	AIR SUPPLY UNIT
BD	BUTTERFLY DAMPER
CD	CEILING DIFFUSER
DH	DUCT HEATER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
FD	FIRE DAMPER
HCP	HVAC CONTROL PANEL
HP	HEAT PUMP
MD	MOTORIZED DAMPER
ML	MOTORIZED LOUVER
OBD	OPPOSED BLADE DAMPER
RG	RETURN GRILLE
RH	RADIANT HEATER
RR	RETRUN REGISTER
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
TCU	TERMINAL CONTROL UNIT
TG	TRANSFER GRILLE
UH	UNIT HEATER

HEATING, VENTILATING, AND AIR CONDITIONING SYMBOLS

	WALL REGISTER OR GRILLE (SUPPLY)
	CEILING DIFFUSER OR REGISTER (SUPPLY)
	CEILING REGISTER OR GRILLE (RETURN AND EXHAUST)
	WALL REGISTER OR GRILLE (RETURN AND EXHAUST)
	TURNING VANES
	45 DEGREE ENTRY
	CONICAL TEE
	BELLMOUTH
	SMOKE DAMPER
	FIRE DAMPER
	MANUAL OPPOSED-BLADE DAMPER
	MANUAL BUTTERFLY DAMPER
	MOTORIZED DAMPER
	SOUND ATTENUATED DUCT
	FLEXIBLE CONNECTION
	FLEXIBLE DUCTWORK
	INCLINED RISE IN DUCT
	INCLINED DROP IN DUCT
	SUPPLY DUCT (SECTION)
	INTAKE, RETURN, OR EXHAUST DUCT (SECTION)
	ROOM TEMPERATURE SENSOR
	ROOM PRESSURE SENSOR
	ROOM HUMIDITY SENSOR
	HVAC CONTROL PANEL
	200 SCFM
	MOTORIZED VALVE - 3 WAY
	MOTORIZED VALVE - 2 WAY
	BALANCE FITTING
	FLOW MEASURING & BALANCE FITTING
	DUCT IONIZATION SMOKE DETECTOR

PLUMBING FIXTURE AND EQUIPMENT IDENTIFICATION

IDENTIFICATION	EQUIPMENT NAME
AC	AIR COMPRESSOR
ANT	ACID NEUTRALIZATION TANK
BP	BOOSTER PUMP
CP	CIRCULATION PUMP
DB	DOWNSPOUT BOOT
DF	DRINKING FOUNTAIN
DN	DOWNSPOUT NOZZLE
DWT	DOMESTIC WATER STORAGE TANK
EE	EMERGENCY EYE WASH
ES	EMERGENCY SAFETY SHOWER
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
GD	GUTTER DRAIN
HD	HUB DRAIN
HX	HEAT EXCHANGER
LAV	LAVATORY
OS	OIL SEPERATOR
S	SINK
SH	SHOWER
SSH	SAFETY SHOWER
SSK	SERVICE SINK
SP	SUMP PUMP
TD	TRENCH DRAIN
TP	TRAP PRIMER ASSEMBLY
TWT	TEMPERED WATER STORAGE TANK
UR	URINAL
WC	WATER CLOSET
WH	WATER HEATER
WS	AUTOMATIC WASHER
VP	VACUUM PUMP



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY TOM J. REJFIR, STATE OF OREGON, P.E. NO. 13,614.

DSGN	KL WELP	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.
DR	JS WILLIAMSON						
CHK	TJ REJFIR						
APVD	CW MASSIE						

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

JMD SJP



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

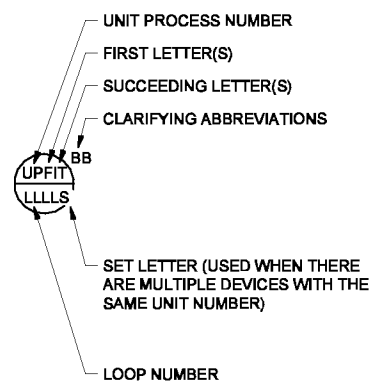
GENERAL

HVAC & PLUMBING LEGENDS

SHEET	19
DWG	01-G-19
DATE	MAY 19 2006
PROJ	326918

INSTRUMENT IDENTIFICATION

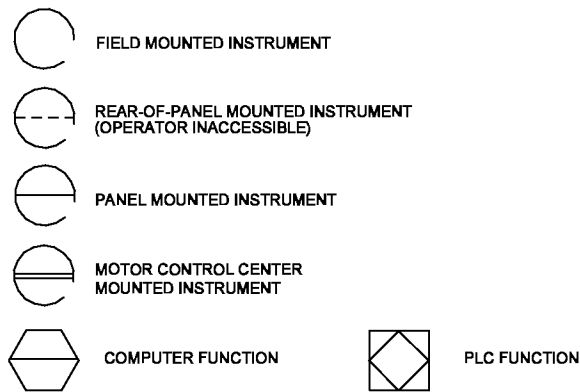
EXAMPLE SYMBOLS



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

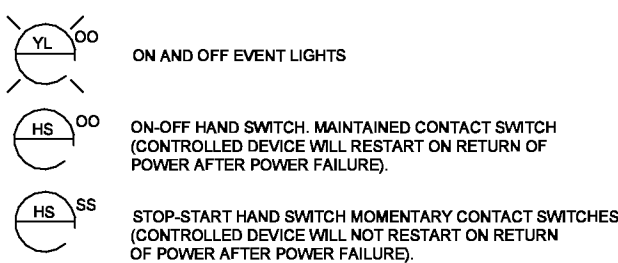


INSTRUMENT IDENTIFICATION LETTERS TABLE

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	FLOW RATE	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	

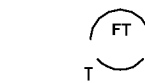
TABLE BASED ON THE INSTRUMENTATION, SYSTEMS, AND AUTOMATION SOCIETY (ISA) STANDARD.
 (+) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS.
 (*) WHEN USED, DEFINE THE MEANING HERE FOR THE PROJECT

SPECIAL CASES



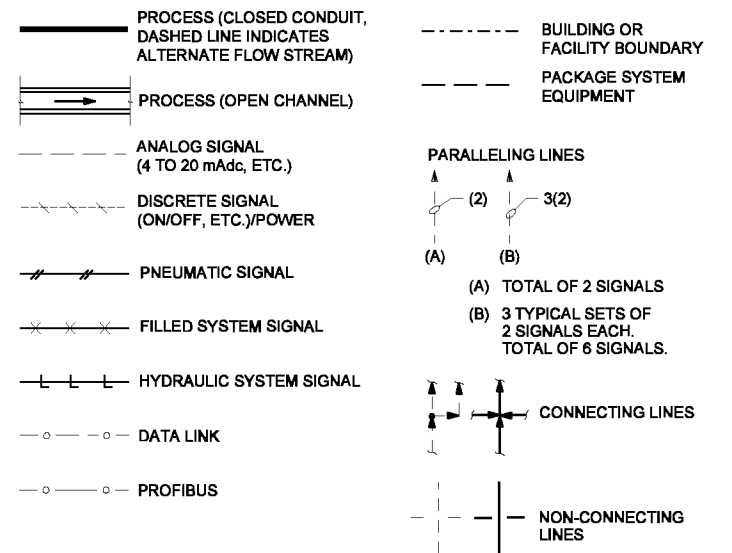
ACCESSORY DEVICES

EXAMPLE: TRANSMITTER AS AN ACCESSORY TO A FLOW ELEMENT

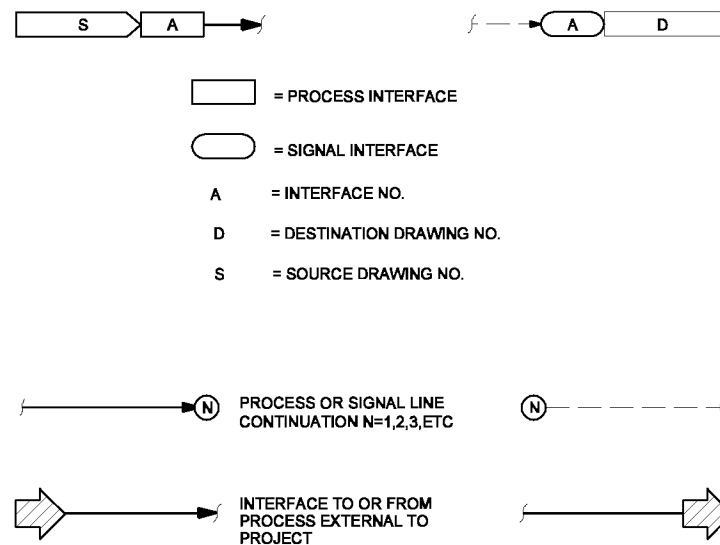


- A - ALARM
- C - CONTROLLER
- I - INDICATOR
- R - RECORDER
- S - SWITCH
- T - TRANSMITTER
- X - UNCLASSIFIED

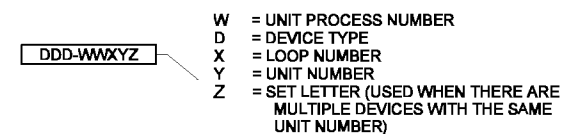
LINE LEGEND



INTERFACE SYMBOLS



SELF CONTAINED VALVE & EQUIPMENT TAG NUMBERS



ABBREVIATIONS & LETTER SYMBOLS

- AC ALTERNATING CURRENT
- AIR AIR SUPPLY
- AM AUTO-MANUAL
- AS ADJUSTABLE SPEED
- AVG AVERAGE
- 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
- SUSP SUSPENDED SOLIDS
- TCL₂ TOTAL CHLORINE RESIDUAL
- TOC TOTAL ORGANIC CARBON
- TOD TOTAL OXYGEN DEMAND
- TURB TURBIDITY
- USD UP-STOP-DOWN
- √ SQUARE ROOT
- 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.
- COMPONENTS AND PANELS SHOWN WITH A DIAMOND (◆) ARE TO BE OWNER-FURNISHED ITEMS.
- THIS IS A STANDARD LEGEND. THEREFORE, NOT ALL OF THIS INFORMATION MAY BE USED ON THIS PROJECT.

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DSGN	CS BURR						
DR	PM HAMLIN						
CHK	LL WOOD	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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



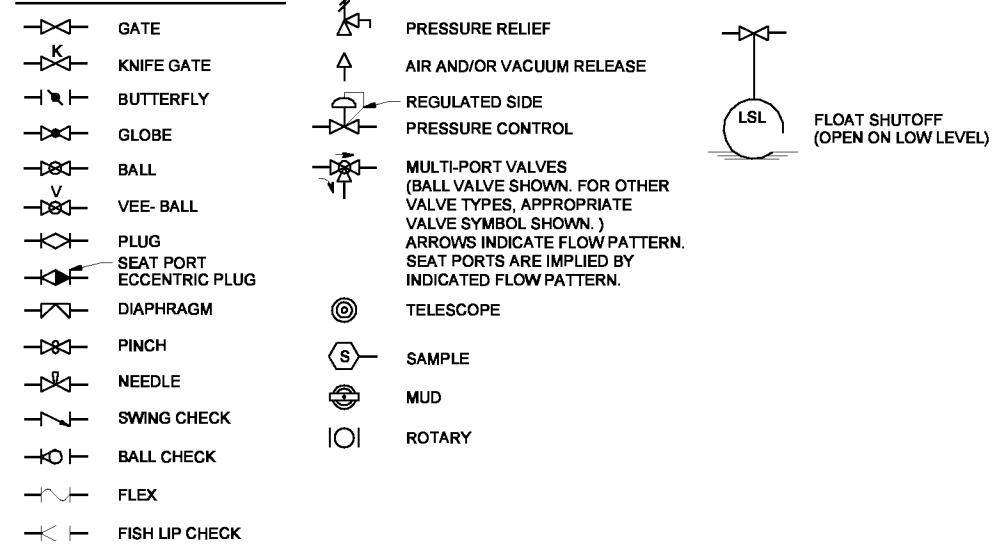
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
INSTRUMENTATION & CONTROL LEGEND
SHEET 1

SHEET	20
DWG	01-G-20
DATE	MAY 19 2006
PROJ	326918

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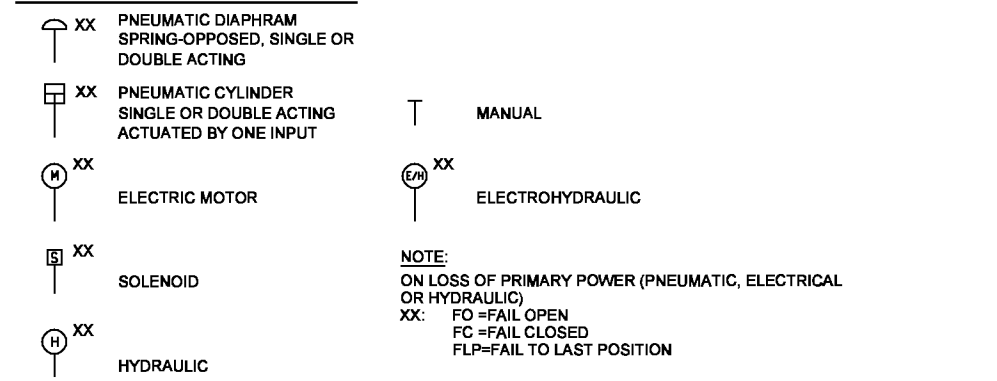
VALVE SYMBOLS



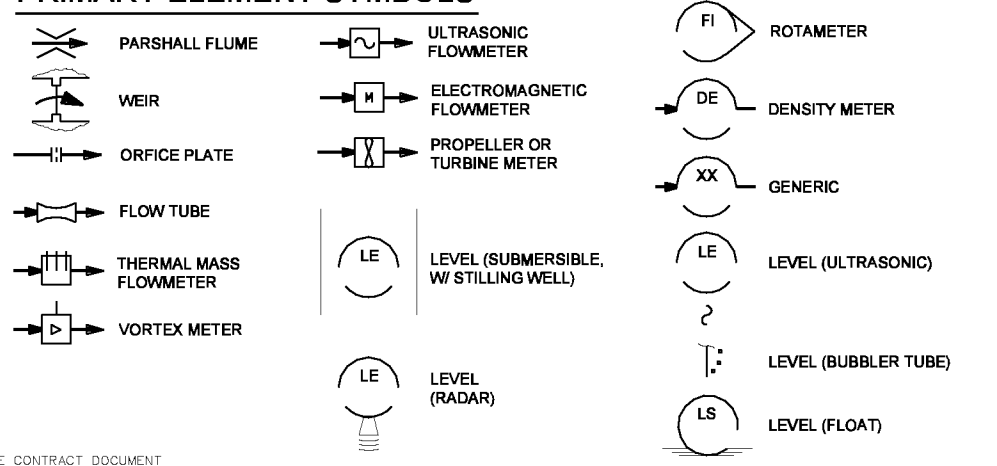
GATE SYMBOLS



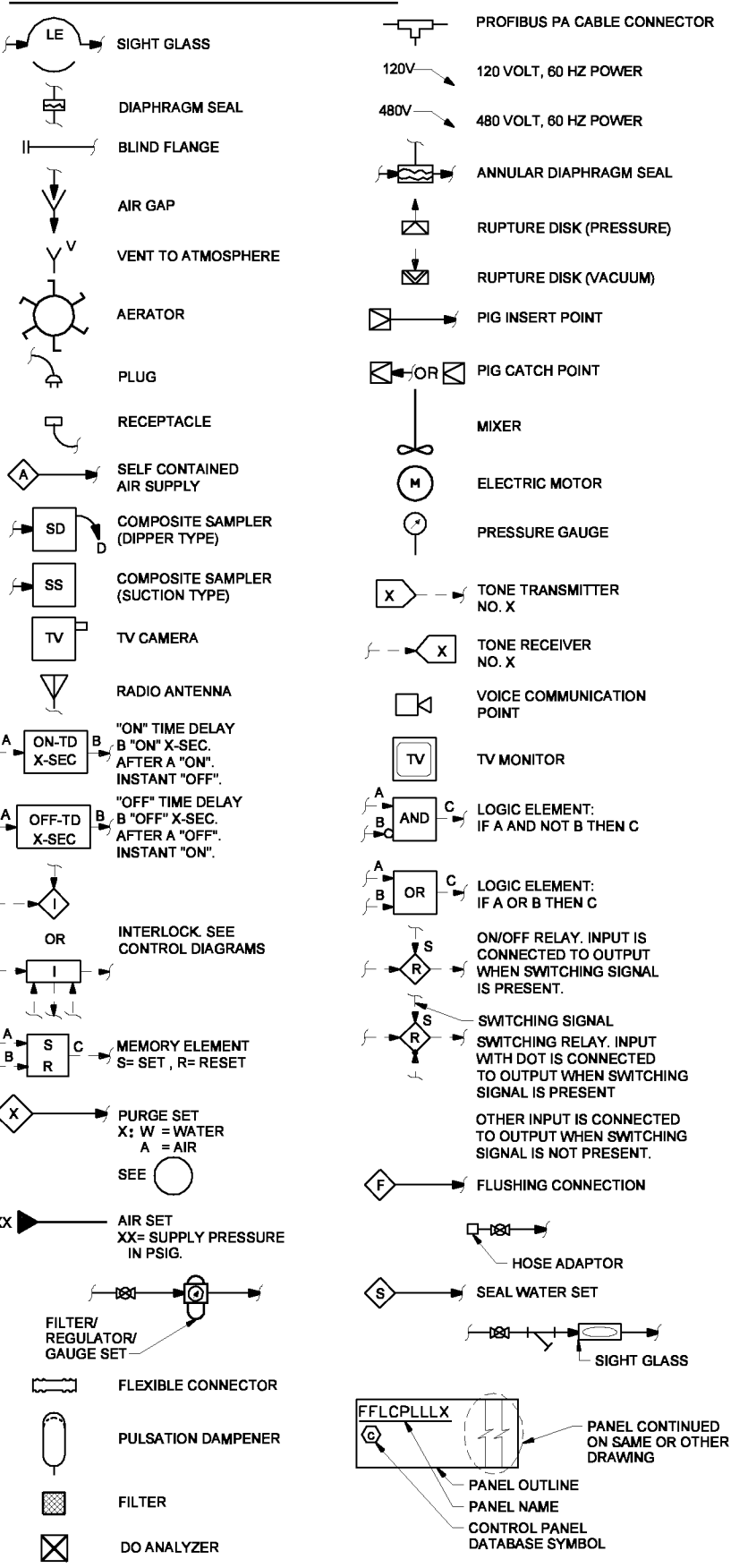
ACTUATOR SYMBOLS



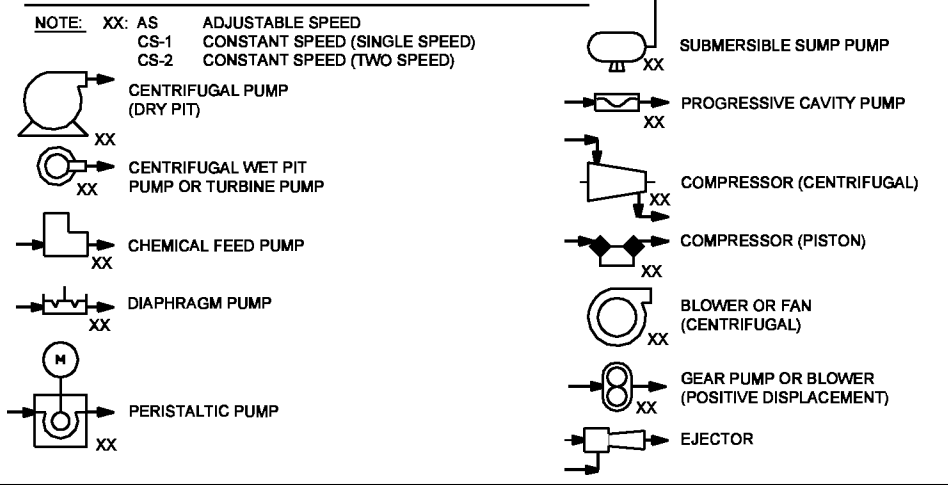
PRIMARY ELEMENT SYMBOLS



MISCELLANEOUS SYMBOLS



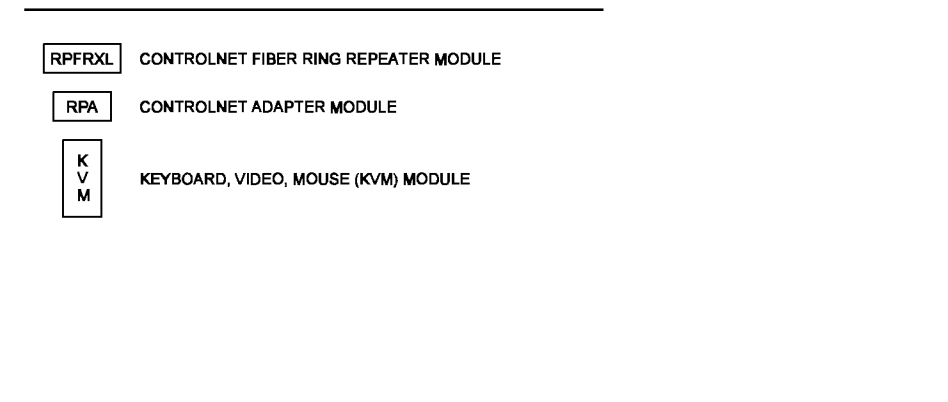
PUMP AND COMPRESSOR SYMBOLS



FLOW STREAM IDENTIFICATION

— AHP —	AIR, HIGH PRESSURE	— PR —	PRESSURIZED RECYCLE
— ALP —	AIR, LOW PRESSURE	— PS —	PRESSURE SEWER
— ARD —	ACID-RESISTANT DRAIN	— PSD —	PRIMARY SLUDGE
— ARV —	ACID-RESISTANT VENT	— PSM —	PRIMARY SCUM
— AS —	ACTIVATED SLUDGE MIXED LIQUOR	— RAS —	RETURN ACTIVATED SLUDGE
— xx/BYP —	BYPASS	— RCY —	RECYCLE
— CS —	CHLORINE SOLUTION	— RD —	ROOF DRAIN
— D —	DRAIN, SANITARY	— RS —	RAW SEWAGE
— xx/DR —	PROCESS DRAIN	— RSCR —	RAS SCREENINGS
— DS —	DIGESTED SLUDGE	— SA —	SAMPLE
— DSF —	DEWATERING SYSTEM FEED	— SC —	SCUM
— DW —	DEIONIZED WATER	— SCR —	SCREENINGS
— DWS —	DEWATERED SOLIDS	— SD —	STORM DRAIN
— FW —	FIREWATER	— SE —	SECONDARY EFFLUENT
— GR —	GRIT	— SG —	SEWAGE GAS
— GS —	GRIT SLURRY	— SL —	SUPERNATANT LIQUOR
— HPW —	HIGH PRESSURE WASH WATER	— SLF —	SLUDGE FEED
— HS —	HARVESTED SLUDGE	— SN —	SUPERNATANT
— HW —	HOT WATER (POTABLE)	— SPD —	SUMP PUMP DISCHARGE
— HW2 —	HOT WATER (NON-POTABLE)	— SRS —	SCREENED RAW SEWAGE
— HWC —	HEATING WATER CIRCULATION	— SS —	SANITARY SEWER
— HWR —	HEATING WATER RETURN	— SSM —	SECONDARY SCUM
— HWS —	HEATING WATER SUPPLY	— TAS —	THICKENED ACTIVATED SLUDGE
— HYP —	HYPOCHLORITE (NEAT)	— TBS —	THICKENED BOTTOM SLUDGE
— IRD —	INTERCHANGE REACTOR DISCHARGE	— TUF —	THICKENED UNDER FLOW
— IRF —	INTERCHANGE REACTOR FEED	— TW —	TEMPERED WATER (POTABLE)
— LPO —	LIQUID POLYMER	— UD —	UNDERDRAIN
— ML —	MIXED LIQUOR	— V —	SANITARY VENT
— MS —	MIXED SLUDGE FEED	— VAC —	VACUUM
— NG —	NATURAL GAS	— xx/V —	PROCESS VENT
— OA —	ODOROUS AIR	— W1 —	NO. 1 WATER (POTABLE)
— OF —	OVERFLOW	— W2 —	NO. 2 WATER (NON-POTABLE)
— PD —	PLANT DRAIN	— W3 —	NO. 3 WATER (PLANT EFFLUENT)
— PE —	PRIMARY EFFLUENT	— WAS —	WASTE ACTIVATED SLUDGE
— PI —	PRIMARY INFLUENT	— WW —	WELL WATER
— PLE —	PLANT EFFLUENT		
— PO —	POLYMER SOLUTION		

ELECTRONIC COMPONENT SYMBOLS



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DSGN	CS BURR								
DR	PM HAMLIN								
CHK	LL WOOD	01/20/10							
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.

CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

GENERAL
 INSTRUMENTATION & CONTROL LEGEND
 SHEET 2

SHEET	21
DWG	01-G-21
DATE	MAY 19 2006
PROJ	326918

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WIRING DIAGRAM LEGEND

ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATIONS	DESCRIPTION		
	RELAY COIL		INDICATING LIGHT, LETTER INDICATES COLOR: A = AMBER R = RED B = BLUE W = WHITE C = CLEAR Y = YELLOW G = GREEN		TERMINAL BLOCK	A	AUTO, AMPS, AMBER		
	CONTACT, NORMALLY OPEN		INDICATING LIGHT, PUSH-TO-TEST LETTER INDICATES COLOR		TERMINAL BLOCK, FUSED, SWITCHED	BK	BLACK		
	CONTACT, NORMALLY CLOSED		SOLENOID VALVE		TERMINAL BLOCK, SWITCHED	BL	BLUE		
	PUSHBUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN		HORN, BEEPER		FIELD DEVICE(S)	BR	BROWN		
	PUSHBUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED		BELL		DISTRIBUTED CONTROL SYSTEM (DCS)	C	CLOSE		
	SELECTOR SWITCH		GROUND		CONTROL PANEL DEVICE(S)	CR	CONTROL RELAY		
	LIMIT SWITCH		ELAPSED TIME METER		MOTOR CONTROL CENTER DEVICE(S)	CS	CURRENT SWITCH (4-20mA)		
	ANNUNCIATOR RELAY CONTACT FOLLOWS ANNUNCIATOR INPUT		PLC INPUT	(INSTRUMENT, PANEL, RELAY) TAG NUMBERS <u>NUMBERS</u> FFXLLLU WHERE FF = FACILITY/PROCESS NUMBER XX = EQUIPMENT OR ISA TAG LLL = LOOP NUMBER U = UNIT LETTER SEE LOOP LIST FOR TAG NUMBERS.				DEC	DECREASE
	FLOW SWITCH		PLC OUTPUT NORMALLY OPEN					TDD	TIME DELAY ON DE-ENERGIZATION
	TEMPERATURE SWITCH		PLC OUTPUT NORMALLY CLOSED					TDE	TIME DELAY ON ENERGIZATION
	LEVEL SWITCH		TRANSFORMER, SECONDARY VOLTAGE INDICATED					TDR	TIME DELAY RELAY
	PRESSURE SWITCH		CIRCUIT BREAKER	WH	WHITE	OR	ORANGE		
	TIME DELAY SWITCH, NORMALLY CLOSED WITH TIME DELAY CLOSING		FUSE	Y	YELLOW	REM	REMOTE		
	TIME DELAY SWITCH, NORMALLY CLOSED WITH TIME DELAY OPENING		FUSE	ZS-C	CLOSED END LIMIT SWITCH	S	SLOT		
	TIME DELAY SWITCH, NORMALLY OPEN WITH TIME DELAY CLOSING		LATCHING RELAY	SEC	SECONDS	TOS	LOCKOUT STOP		
	TIME DELAY SWITCH, NORMALLY OPEN WITH TIME DELAY OPENING			TDR	TIME DELAY RELAY	M	MOTOR RELAY/CONTACT		
	TIME DELAY RELAY			MAN	MANUAL	N/S/C	NODE / SLOT / CHANNEL		

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	 FUSED TERMINAL BLOCK
 FF TT LLL U SIGNAL CONVERSION	 SWITCHING TERMINAL BLOCK
	 GROUNDED TERMINAL BLOCK

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DSGN CS BURR DR PM HAMLIN CHK LL WOOD APVD CW MASSIE	NO. DATE 01/20/10	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT REVISION	JMD BY	SJP APVD	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.		CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON	GENERAL INSTRUMENTATION & CONTROL LEGEND SHEET 3	SHEET 22 DWG 01-G-22 DATE MAY 19 2006 PROJ 326918
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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
WW1	WASTEWATER TREATMENT PLANT
WT1	VINE STREET WATER TREATMENT PLANT
WT2	ALBANY MILLERSBURG WATER TREATMENT PLANT
BIO	BIO-SOLIDS FACILITY

FACILITY (FAC)	
CODE (FAC)	DESCRIPTION
AB	AERATION BASINS
BIO	BIO-SOLIDS FACILITY
BLR	BLOWER BUILDING
CCB	CHLORINE CONTACT BASINS
HDW	HEADWORKS BUILDING
IPS	INFLUENT PUMP STATION BUILDING
IR	INTERCHANGE REACTORS
OPS	OPERATIONS BUILDING
PRI	PRIMARY CLARIFIERS
RAS	RAS FLOW SPLIT
SBF	SOIL BIOFILTER
SEC	SECONDARY CLARIFIERS
SEP	SEPTAGE RECEIVING
TW	TRUCK WASH
VLR	VERTICAL-LOOP REACTORS

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
EJ	EXHAUST FAN
EF	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
S	SAMPLER
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

NOTES:
1. FOR INSTRUMENTATION, (ISAX) CODES ARE BASED ON THE "INSTRUMENT IDENTIFICATION LETTERS TABLE" (REFERENCE DWG. 01-G-12).

UNIT PROCESS (UP)			
CODE (UP)	DESCRIPTION	CODE (UP)	DESCRIPTION
01	GENERAL	50	RAS PUMPING
05	SITE DEVELOPMENT	52	RAS GRIT PUMPS
06	OUTFALL	54	RAS SCREENING
07	FLOW CONTROL STRUCTURE	55	RAS FLOW SPLIT
08	INSTRUMENTATION AND CONTROL	60	CHLORINE CONTACT BASINS
10	INFLUENT PUMP STATION	61	SODIUM HYPOCHLORITE
15	SEPTAGE RECEIVING AND TRUCK WASHING	62	EXISTING DIGESTER COMPLEX
20	HEADWORKS INFLUENT SCREENS	65	WAS STORAGE TANKS
22	WASHER/COMPACTORS	66	W1 SYSTEMS
24	GRIT CLASSIFIERS	67	W2 SYSTEMS
25	EXISTING HEADWORKS	68	W3 SYSTEMS
27	PRIMARY CLARIFIERS	70	INTERCHANGE REACTOR
30	VERTICAL LOOP REACTORS	72	AEROBIC DIGESTION
32	NEW BLOWER BUILDING	75	RTU SYSTEMS
35	OLD BLOWER BUILDING	77	INTERCHANGE / AEROBIC BLOWERS
38	MIXED LIQUOR (ML) FLOW SPLIT	90	FACILITY SYSTEM
40	SECONDARY CLARIFIERS	91	ELECTRICAL, FIRE ALARM & SECURITY
42	RAS/WAS PUMP STATION	92	HVAC
45	NEW SECONDARY CLARIFIERS	93	PERSONNEL SAFETY
47	EFFLUENT JUNCTION BOX	94	PLANT CONTROL SYSTEM
		95	CONTROL BUILDING / MISCELLANEOUS
		96	OPERATIONS BLDG (EXISTING)

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
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	TRANSCEIVER

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
POSFBK	POSITION FEEDBACK
POSCTRL	POSITION CONTROL
POSRTX	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							PDB TAG	FIELD TAG	LOOP ID	SOFTWARE TAG	WIRING DIAGRAM	WIRE # SAMPLE (TERMINAL)
	SIT	UP	ISA	LOOP	UNIQUE IDENTIFIER (a)	FUNCTION	ANALOG OR DISCRETE						
INFLUENT PUMP 1 ON	WW1	10	P	0101		ON	D	WW1-10P0101	10P0101	WW1-10-0101	WW1_10_0101_P_ON	WW1-10-0101D	10-0101-01
INFLUENT PUMP 1 AUTO	WW1	10	P	0101		AUTO	D	WW1-10P0101	10P0101	WW1-10-0101	WW1_10_0101_P_AUTO	WW1-10-0101D	10-0101-02
INFLUENT PUMP 1 L-R SWITCH	WW1	10	HS	0101	A	REM	D	WW1-10HS0101A	10HS0101A	WW1-10-0101	WW1_10_0101_P_REM	WW1-10-0101D	10-0101-06
INFLUENT PUMP 1 START SWITCH	WW1	10	HS	0101	B	START	D	WW1-10HS0101B	10HS0101B	WW1-10-0101	WW1_10_0101_P_START	WW1-10-0101D	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	##								
BLOWER BUILDING LIGHTING PANELBOARD	WW1	BLR	LP	01	WW1-BLR-LP01	N/A	N/A	N/A	N/A	N/A		
HEADWORKS BUILDING MCC	WW1	HDW	MCC	01	WW1-HDW-MCC01	N/A	N/A	N/A	N/A	N/A		

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DSGN	CS BURR												
DR	PM HAMLIN												
CHK	LL WOOD		01/20/10										
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD							

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
INSTRUMENTATION & CONTROL LEGEND
TAG NAMING STRUCTURE

SHEET	23
DWG	01-G-23
DATE	MAY 19 2006
PROJ	326918

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GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION

Table with 4 main columns: Analog Circuit Callouts, Control Circuit Callouts, Control Cable Circuit Callouts, and Power Cable Circuit Callouts. Includes sub-sections for Power Circuit Callouts and Power and Control Cable Callouts.

GENERAL ELECTRICAL CONSTRUCTION NOTES:

- 1. APPLICATION: THESE PROVISIONS APPLY TO ALL WORK GENERALLY, UNLESS OTHERWISE SPECIFIED BY SPECIFIC NOTE OR REFERENCE.
2. ELECTRICAL INSTALLATION CONDITIONS: FOR REQUIREMENTS, SEE SPECIFICATION SECTION 16010, AREA DESIGNATIONS.
3. ANALYZE THE REQUIREMENTS FOR ROUTING EACH RACEWAY AND INSTALL ACCORDING TO THE SPECIFICATIONS...
4. ALL CONDUITS ROUTED ON THE SITE SHALL BE CONCRETE ENCASED UNLESS SPECIFICALLY IDENTIFIED AS DIRECT BURIED.
5. FINAL CIRCUIT ROUTING FOR PNEUMATIC CONTROL VALVE ACTUATORS...
6. FINAL CIRCUITING FOR ELECTRIC VALVES & GATES...
7. CIRCUITS THAT ARE ROUTED WITHIN A FACILITY ARE IDENTIFIED BY A CIRCUIT/CONDUIT CALLOUT OR BY AN IDENTIFIER DESCRIBED ON THE GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION SCHEDULE...
8. FOR INTERFACING CIRCUITS AND CONDUITS AT DEVICES, SEE SPECIFICATION SECTION 13411, SUPPLEMENT FOR 1 & C DESIGN DETAILS.
9. ALL BURIED CONDUITS SHALL BE A MINIMUM OF 1". IF DRAWINGS INDICATE A CIRCUIT IDENTIFICATION FROM THE ADJACENT TABLE THAT IS 3/4"C, THE CONTRACTOR SHALL ASSUME THAT WHILE THE CONDUIT IS BURIED, THE SIZE IS 1". ONCE CONDUIT IS ROUTED OUTSIDE THE GROUND, RESUME WITH CONDUIT SIZE LISTED IN TABLE.
10. ALL DUCTBANKS CONTAINING HIGH VOLTAGE CIRCUITS SHALL BE CONCRETE ENCASED PER 16400a UNLESS NOTES OTHERWISE. ALL DUCTBANKS CONTAINING LESS THAN 600 VOLT CIRCUITS SHALL BE DIRECT BURIED PER DETAILS 16325a AND 16325b UNLESS NOTED OTHERWISE.

GENERAL NOTES: FOR LIGHTING SYSTEM

- 1. CIRCUIT NUMBERS AND PANEL DESIGNATION ARE SHOWN ADJACENT TO LIGHTS. FOR EXAMPLE: THE (3) INDICATES CIRCUIT NO. 3 IN THE PANEL DESIGNATED ON THE SHEET THE FIXTURE IS SHOWN.
2. FURNISH, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE COMBINATIONS OF LIGHTS AND LIGHT SWITCHES ASSIGNED TO THE BRANCH CIRCUIT.
3. FURNISH AND INSTALL NO. 12 AWG 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.
4. FOR UNFINISHED ROOMS FURNISH AND INSTALL 1 5/8"x1 5/8" LENGTHS AS REQUIRED, GALVANIZED STEEL CHANNEL BETWEEN JOISTS/TRUSSES. SUPPORT LIGHTS FROM CHANNELING.
5. DO NOT RUN ANY CONDUIT IN FRONT OF TRANSLUCENT GLAZING PANELS.

GENERAL NOTES: FOR POWER AND SIGNAL SYSTEM

- 1. CIRCUIT NUMBERS AND PANEL DESIGNATIONS ARE SHOWN ADJACENT TO RECEPTACLES, HVAC EQUIPMENT AND EQUIPMENT CONNECTIONS. FOR EXAMPLE: THE (2) INDICATES CIRCUIT 2 IN THE PANEL DESIGNATED ON THE SHEET THE DEVICE IS SHOWN ON.
2. FURNISH, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE RECEPTACLES AND EQUIPMENT CONNECTIONS ASSIGNED TO THE BRANCH CIRCUIT SHOWN.
3. FURNISH AND INSTALL NO. 12 AWG 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.
4. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF TERMINAL BOXES AND CONDUIT ENTRANCES OF ALL EQUIPMENT WITH SHOP DRAWINGS BEFORE STUBBING UP CONDUITS.
5. PROVIDE FLEXIBLE CONDUIT WHERE CONDUIT TERMINATES AT EQUIPMENT OR DEVICES SUBJECT TO MOVEMENT FROM VIBRATION, EXPANSION AND CONTRACTION. REFER TO 16130, RACEWAYS AND BOXES FOR ADDITIONAL REQUIREMENTS.

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Table with 2 columns: Role and Name. DSGN: KL MAESTRI, DR: G.J. LOVE, CHK: JB MAURAS, APVD: CW MASSIE.

Table with 2 columns: NO. and DATE. NO.: 01, DATE: 10/20/10.

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

Table with 2 columns: BY and APVD. BY: GRW, APVD: SJP.

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CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWT-03-01 LINN COUNTY, OREGON

GENERAL ELECTRICAL GENERAL NOTES AND CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION

Table with 2 columns: SHEET and DWG. SHEET: 25, DWG: 01-G-25, DATE: MAY 19 2006, PROJ: 326918.

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INFLUENT FLOWS AND LOADS

	DESIGN VALUES	
	2020	2030
YEAR	2020	2030
DESIGN POPULATION		
FLOWS, MGD		
AVERAGE ANNUAL	13	16
AVERAGE DRY WEATHER	9.6	12.3
AVERAGE WET WEATHER	15	20
MAXIMUM MONTH WET WEATHER	25	29
MAXIMUM WEEK WET WEATHER	36	44
PEAK WET WEATHER	63	68
BOD LOADINGS, LBS/DAY		
AVERAGE ANNUAL	9,400	11,300
MAXIMUM MONTH	12,100	14,600
MAXIMUM WEEK	16,000	19,200
MAXIMUM DAY	24,400	29,400
TSS LOADINGS, LBS/DAY		
AVERAGE ANNUAL	12,300	14,600
MAXIMUM MONTH	16,100	19,100
MAXIMUM WEEK	22,500	26,700
MAXIMUM DAY	21,400	37,200
TKN LOADINGS, LBS/DAY		
AVERAGE ANNUAL	3,000	3,500
MAXIMUM MONTH	3,900	4,500
MAXIMUM WEEK	5,100	5,900
MAXIMUM DAY	7,800	9,100
AMMONIA LOADINGS, LBS/DAY		
AVERAGE ANNUAL	1,900	2,200
MAXIMUM MONTH	2,500	2,800
MAXIMUM WEEK	3,200	3,700
MAXIMUM DAY	4,900	5,700

EFFLUENT REQUIREMENTS

	DESIGN VALUES	
DRY WEATHER		
BOD, MG/L	10	
TSS, MG/L	10	
WET WEATHER		
BOD, MG/L	25	
TSS, MG/L	30	

LIQUID UNIT PROCESS CRITERIA

INFLUENT PUMP STATION		
UNITS	3	
TYPE	SUBMERSIBLE PREROTATION (WET PIT)	
CAPACITY/UNIT, MGD	8	
OPERATING HEAD, FT	73	
MOTOR, EA, HP	177	
DRIVE	VARIABLE	

LIQUID UNIT PROCESS CRITERIA

INFLUENT PUMP STATION		
UNITS	3	
TYPE	IMMERSIBLE (DRY PIT)	
CAPACITY/UNIT, MGD	14.7	
OPERATING HEAD, FT	70	
MOTOR, EA, HP	306	
DRIVE	VARIABLE	
INFLUENT PUMP STATION SUMP PUMP		
UNITS	1	
TYPE	SUBMERSIBLE CHOPPER	
CAPACITY/UNIT, GPM	150	
OPERATING HEAD, FT	15	
MOTOR, EA, HP	5	
DRIVE	CONSTANT	
MECHANICAL SCREENS		
UNITS	3	
TYPE	PERFORATED PLATE	
CAPACITY/UNIT, MGD	23	
OPENING SIZE, MM	6	
MOTOR, EA, HP	5 (MAIN) + 5 (BRUSH)	
DRIVE	MAIN - VARIABLE BRUSH - CONSTANT	
MANUAL BAR SCREEN		
UNITS	1	
OPENING SIZE, IN	2	
SCREENINGS WASHER		
UNITS	3	
CAPACITY/UNIT, CF/HR	5	
MOTOR, EA, HP	5.0	
DRIVE	CONSTANT - FORWARD/REVERSE	
SCREENINGS COMPACTOR		
UNITS	3	
CAPACITY/UNIT, CF/HR	7	
MOTOR, EA, HP	7.5	
DRIVE	VARIABLE	
SCREENINGS CONVEYOR		
UNITS	1	
TYPE	SHAFTLESS	
CAPACITY/UNIT, CF/HR	18	
MOTOR, EA, HP	7.5	
DRIVE	VARIABLE	
SCREENINGS LOADOUT CONVEYOR		
UNITS	1	
TYPE	SHAFTLESS	
CAPACITY/UNIT, CF/HR	18	
MOTOR, EA, HP	5.0	
DRIVE	VARIABLE	

LIQUID UNIT PROCESS CRITERIA

SCREENINGS DUMPSTER		
CAPACITY/UNIT, CY	34	
DIMENSIONS, L x W x D	20 FT x 8 FT x 5 FT - 10 IN	
GRIT REMOVAL		
UNITS	3	
TYPE	VORTEX SEPARATOR	
CAPACITY/UNIT, MGD	23	
MOTOR, EA, HP	2.0	
DRIVE	CONSTANT	
GRIT PUMPS		
UNITS	5	
TYPE	TORQUE FLOW, MODEL C	
CAPACITY/UNIT, GPM	220	
OPERATING HEAD, FT	48	
MOTOR, EA, HP	20	
DRIVE	CONSTANT	
GRIT CYCLONES		
UNITS	4	
CAPACITY/UNIT, GPM	220	
INFLUENT PRESSURE, PSI	5	
GRIT CLASSIFIER		
UNITS	2	
TYPE	18" FLARED	
CAPACITY/UNIT, TON/HR	2	
MOTOR, EA, HP	1.0	
DRIVE	CONSTANT	
RAS SCREENS		
UNITS	3	
TYPE	ROTARY DRUM	
OPENING SIZE, μM	250	
CAPACITY/UNIT, MGD	3	
MOTOR, EA, HP	2.0	
DRIVE	CONSTANT	
RAS GRIT PUMPS		
UNITS	1	
TYPE	CENTRIFUGAL	
CAPACITY/UNIT, GPM	192	
OPERATING HEAD, PSI	30	
MOTOR, EA, HP	10	
DRIVE	CONSTANT	
GRIT DUMPSTER		
CAPACITY/UNIT, CY	27	
DIMENSIONS, L x W x D	16 FT x 8 FT x 5 FT - 10 IN	

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DSGN	KE MATHES								
DR	ER BROWN								
CHK	BR JOHNSON	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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AS-BUILT

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
DESIGN DATA SUMMARY
SHEET 1

SHEET	26
DWG	01-G-26
DATE	MAY 19 2006
PROJ	326918

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LIQUID UNIT PROCESS CRITERIA

	DESIGN VALUES
GRIT LOADOUT CONVEYOR	
UNITS	1
TYPE	SHAFTLESS
CAPACITY/UNIT, CF/HR	10
MOTOR, EA, HP	5.0
DRIVE	VARIABLE
RAS SCREENINGS CONVEYOR	
UNITS	1
TYPE	SHAFTED
CAPACITY/UNIT CF/HR	8
MOTOR, EA, HP	3.0
DRIVE	CONSTANT
RAS SCREENINGS COMPACTOR	
UNITS	1
CAPACITY/UNIT CF/HR	8
MOTOR, EA, HP	3.0
DRIVE	CONSTANT
RAS GRIT CYCLONE	
UNITS	12
CAPACITY/UNIT, GPM	20
INFLUENT PRESSURE, PSI	30
AERATION BASINS	
UNITS	6
TYPE	VERTICAL LOOP REACTORS
MAXIMUM MONTH FLOW, MGD	25
MAXIMUM MONTH BOD LOADING, LB/DAY	12,100
MAXIMUM MONTH TSS LOADING, LB/DAY	16,100
MAXIMUM MONTH TKN LOADING, LB/DAY	3,900
MAXIMUM MONTH NH ₃ LOADING, LB/DAY	2,500
VSS	82%
MLSS, MG/L	3,500
SVI, ML/G	150
MAXIMUM AOR, LB O ₂ /DAY	11,300
SIZE, EA, L x W x D, FT	125 x 30 x 26.33
SIDEWATER DEPTH, FT	23
VOLUME, EA, GAL	625,000
DISC AERATORS	
UNITS, PER BASIN	2
DISCS PER UNIT	41
STANDARD OXYGEN TRANSFER RATE, EA, LB/HR	51.1
MOTOR, EA, HP	25
DRIVE	VARIABLE
AERATION BLOWERS	
UNITS	4
TYPE	CENTRIFUGAL
CAPACITY/UNIT, SCFM	2,650
OPERATING PRESSURE, PSI	11.5
MOTOR, EA, HP	250

LIQUID UNIT PROCESS CRITERIA

	DESIGN VALUES
AERATION DIFFUSERS	
UNITS, PER BASIN	120
TYPE	COARSE BUBBLE
CAPACITY/UNIT, SCFM	12
VERTICAL LOOP REACTOR SCUM PUMP	
UNITS	1
TYPE	RECIRCULATOR
CAPACITY/UNIT, GPM	150
OPERATING HEAD, FT	15
MOTOR, EA, HP	5.0
DRIVE	CONSTANT
SECONDARY CLARIFIERS	
UNITS	3
TYPE	CIRCULAR
MAXIMUM MONTH SOR, GPD/SF	1150
PEAK WET WEATHER SOR, GPD/SF	1475
SIZE, EA, DIA, FT	140
SIDEWATER DEPTH, FT	18
VOLUME, EA, GAL	2,073,000
SECONDARY SCUM PUMP	
UNITS	1 PER SECONDARY CLARIFIER
TYPE	RECIRCULATOR
CAPACITY/UNIT, GPM	200
OPERATING HEAD, FT	27.5
MOTOR, EA, HP	5.0
DRIVE	CONSTANT
RETURN ACTIVATED SLUDGE PUMPS	
UNITS	2 PER SECONDARY CLARIFIER
TYPE	SUBMERSIBLE
CAPACITY/UNIT, MGD	4
OPERATING HEAD, FT	41
MOTOR, EA, HP	54
DRIVE	VARIABLE
CHLORINE CONTACT BASINS	
UNITS	2
SIZE, EA, L x W x D, FT	434 x 10 x 12
VOLUME, GAL	390,000
DETENTION TIME @ PEAK DAY, MIN	21
DETENTION TIME @ PEAK HOUR, MIN	17
TANK DRAIN PUMP	
UNITS	1
TYPE	HIDROSTAL
CAPACITY/UNIT, GPM	
OPERATING HEAD, FT	
MOTOR, EA, HP	
DRIVE	CONSTANT

LIQUID UNIT PROCESS CRITERIA

	DESIGN VALUES
W3 PUMP STATION	
UNITS	3
TYPE	VERTICAL TURBINE
CAPACITY/UNIT, GPM	1,000
DESIGN PRESSURE, PSI	90
MOTOR, EA, HP	75
DRIVE	VARIABLE
HYPOCHLORITE METERING PUMPS	
UNITS	3
TYPE	PERISTALTIC
CAPACITY/UNIT, GPM	0.011 - 3.2
DRIVE	VARIABLE
SOLID UNIT PROCESS CRITERIA	
INTERCHANGE REACTOR	
UNITS	2
TYPE	SEMI-BATCH
SIZE, EA, L x W x D, FT	119 x 39.5 x 18.5
SIDEWATER DEPTH, FT	14.5
VOLUME, EA, GAL	510,000
SURFACE MIXERS	
UNITS, PER BASIN	2
MOTOR, EA, HP	15.0
DRIVE	CONSTANT
AERATION DIFFUSERS (I/R)	
UNITS, PER BASIN	134
TYPE	COARSE BUBBLE
CAPACITY/UNIT, SCFM	10
INTERCHANGE REACTOR PUMPS	
UNITS	2
TYPE	NON-CLOG SUBMERSIBLE
CAPACITY/UNIT, GPM	830
OPERATING HEAD, FT	22
MOTOR, EA, HP	10
DRIVE	VARIABLE
AEROBIC DIGESTERS	
UNITS	2
TYPE	BATCH
SIZE, EA, DIA, FT	119 x 39.5 x 18.5
SIDEWATER DEPTH, FT	14.5
VOLUME, EA, GAL	510,000
AERATION DIFFUSERS (DIGESTER)	
UNITS, PER BASIN	100
TYPE	COARSE BUBBLE
CAPACITY/UNIT, SCFM	10
AEROBIC DIGESTER PUMP	
UNITS	1
TYPE	NON-CLOG SUBMERSIBLE
CAPACITY/UNIT, GPM	520
OPERATING HEAD, FT	36
MOTOR, EA, HP	10
DRIVE	VARIABLE

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D9GN	KE MATHES				
DR	ER BROWN				
CHK	BR JOHNSON	01/20/10			
APVD	CW MASSIE	NO.	DATE	REVISION	BY

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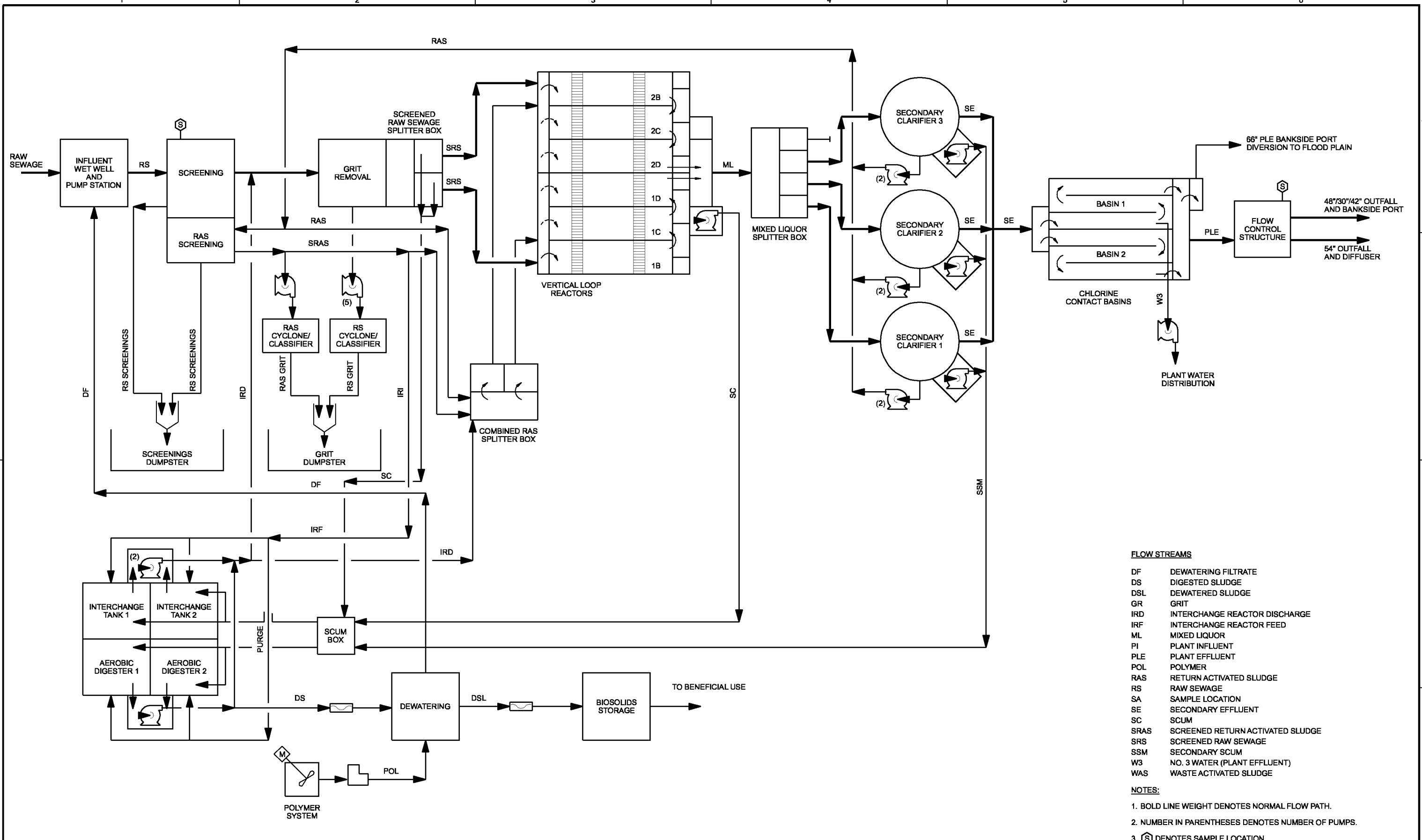
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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

GENERAL
 DESIGN DATA SUMMARY
 SHEET 2

SHEET	27
DWG	01-G-27
DATE	MAY 19 2008
PROJ	326918



- FLOW STREAMS**
- DF DEWATERING FILTRATE
 - DS DIGESTED SLUDGE
 - DSL DEWATERED SLUDGE
 - DSL DEWATERED SLUDGE
 - GR GRIT
 - IRD INTERCHANGE REACTOR DISCHARGE
 - IRF INTERCHANGE REACTOR FEED
 - ML MIXED LIQUOR
 - PI PLANT INFLUENT
 - PLE PLANT EFFLUENT
 - POL POLYMER
 - RAS RETURN ACTIVATED SLUDGE
 - RS RAW SEWAGE
 - SA SAMPLE LOCATION
 - SE SECONDARY EFFLUENT
 - SC SCUM
 - SRAS SCREENED RETURN ACTIVATED SLUDGE
 - SRS SCREENED RAW SEWAGE
 - SSM SECONDARY SCUM
 - W3 NO. 3 WATER (PLANT EFFLUENT)
 - WAS WASTE ACTIVATED SLUDGE
- NOTES:**
1. BOLD LINE WEIGHT DENOTES NORMAL FLOW PATH.
 2. NUMBER IN PARENTHESES DENOTES NUMBER OF PUMPS.
 3. DENOTES SAMPLE LOCATION

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DSGN	KE MATHES									
DR	ER BROWN									
CHK	BR JOHNSON	01/20/10								
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD				

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CH2MHILL **CAROLLO engineers**

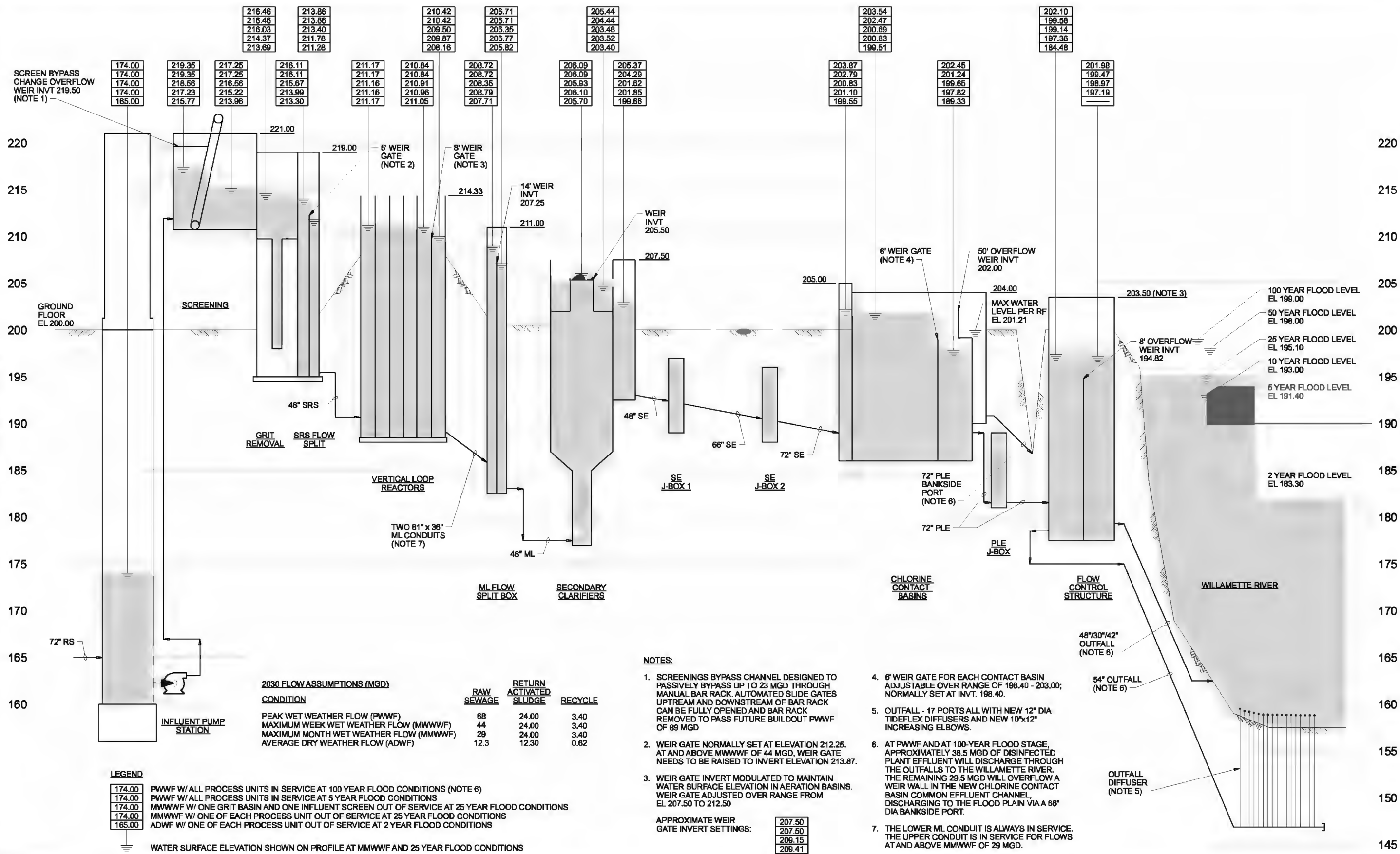
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

GENERAL
PROCESS FLOW DIAGRAM

SHEET	28
DWG	01-G-28
DATE	MAY 19 2006
PROJ	326918

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ELEVATION ABOVE MEAN SEA LEVEL (FT)



2030 FLOW ASSUMPTIONS (MGD)

CONDITION	RAW SEWAGE	RETURN ACTIVATED SLUDGE	RECYCLE
PEAK WET WEATHER FLOW (PWWF)	88	24.00	3.40
MAXIMUM WEEK WET WEATHER FLOW (MWWWF)	44	24.00	3.40
MAXIMUM MONTH WET WEATHER FLOW (MMWWF)	29	24.00	3.40
AVERAGE DRY WEATHER FLOW (ADWF)	12.3	12.30	0.62

LEGEND

174.00	PWWF W/ ALL PROCESS UNITS IN SERVICE AT 100 YEAR FLOOD CONDITIONS (NOTE 6)
174.00	PWWF W/ ALL PROCESS UNITS IN SERVICE AT 5 YEAR FLOOD CONDITIONS
174.00	MWWWF W/ ONE GRIT BASIN AND ONE INFLUENT SCREEN OUT OF SERVICE AT 25 YEAR FLOOD CONDITIONS
174.00	MMWWF W/ ONE OF EACH PROCESS UNIT OUT OF SERVICE AT 25 YEAR FLOOD CONDITIONS
165.00	ADWF W/ ONE OF EACH PROCESS UNIT OUT OF SERVICE AT 2 YEAR FLOOD CONDITIONS

NOTES:

- SCREENINGS BYPASS CHANNEL DESIGNED TO PASSIVELY BYPASS UP TO 23 MGD THROUGH MANUAL BAR RACK. AUTOMATED SLIDE GATES UPSTREAM AND DOWNSTREAM OF BAR RACK CAN BE FULLY OPENED AND BAR RACK REMOVED TO PASS FUTURE BUILDOUT PWWF OF 89 MGD
 - WEIR GATE NORMALLY SET AT ELEVATION 212.25. AT AND ABOVE MWWWF OF 44 MGD, WEIR GATE NEEDS TO BE RAISED TO INVERT ELEVATION 213.87.
 - WEIR GATE INVERT MODULATED TO MAINTAIN WATER SURFACE ELEVATION IN AERATION BASINS. WEIR GATE ADJUSTED OVER RANGE FROM EL 207.50 TO 212.50
 - APPROXIMATE WEIR GATE INVERT SETTINGS:
- | |
|--------|
| 207.50 |
| 207.50 |
| 206.15 |
| 206.41 |
| 210.22 |
- 6" WEIR GATE FOR EACH CONTACT BASIN ADJUSTABLE OVER RANGE OF 198.40 - 203.00; NORMALLY SET AT INVT. 198.40.
 - OUTFALL - 17 PORTS ALL WITH NEW 12" DIA TIDEFLEX DIFFUSERS AND NEW 10"x12" INCREASING ELBOWS.
 - AT PWWF AND AT 100-YEAR FLOOD STAGE, APPROXIMATELY 38.5 MGD OF DISINFECTED PLANT EFFLUENT WILL DISCHARGE THROUGH THE OUTFALLS TO THE WILLAMETTE RIVER. THE REMAINING 29.5 MGD WILL OVERFLOW A WEIR WALL IN THE NEW CHLORINE CONTACT BASIN COMMON EFFLUENT CHANNEL, DISCHARGING TO THE FLOOD PLAIN VIA A 66" DIA BANKSIDE PORT.
 - THE LOWER ML CONDUIT IS ALWAYS IN SERVICE. THE UPPER CONDUIT IS IN SERVICE FOR FLOWS AT AND ABOVE MMWWF OF 29 MGD.

NO.	DATE	REVISION	BY	APVD
	01/20/10	AS-BUILT	JMD	SJP

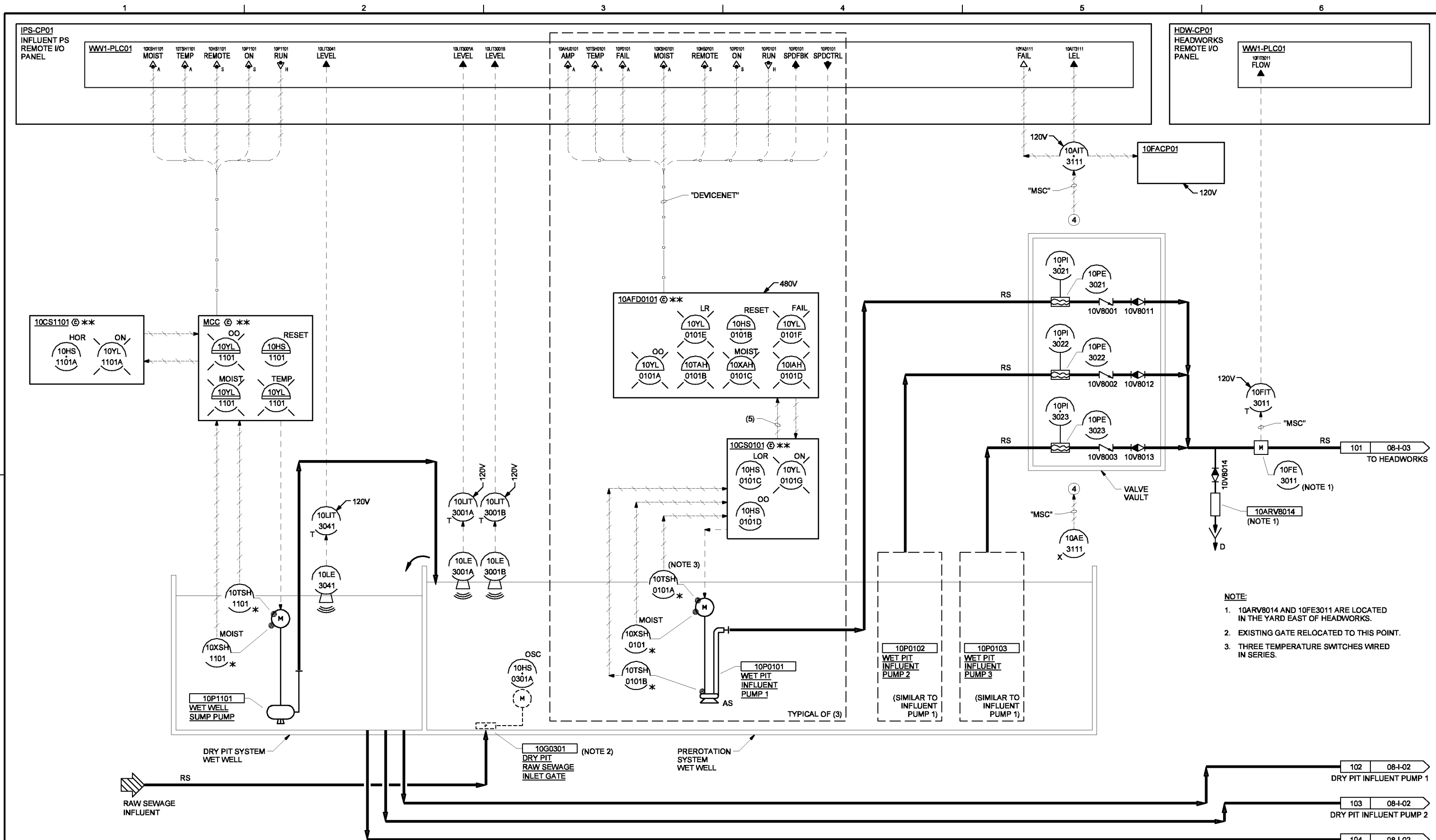


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

GENERAL
HYDRAULIC PROFILE

SHEET	29
DWG	01-G-29
DATE	MAY 19 2006
PROJ	326918

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- NOTE:**
- 10ARV8014 and 10FE3011 ARE LOCATED IN THE YARD EAST OF HEADWORKS.
 - EXISTING GATE RELOCATED TO THIS POINT.
 - THREE TEMPERATURE SWITCHES WIRED IN SERIES.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 19, 2006 BY CHRISTOPHER S. BURR, STATE OF OREGON, P.E. NO. 49633PE

DSGN	CS BURR/BM CASEY						
DR	DS PARKER						
CHK	LL WOOD	01/20/10	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	PMH	CSB		
APVD	RS SHANLEY	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.

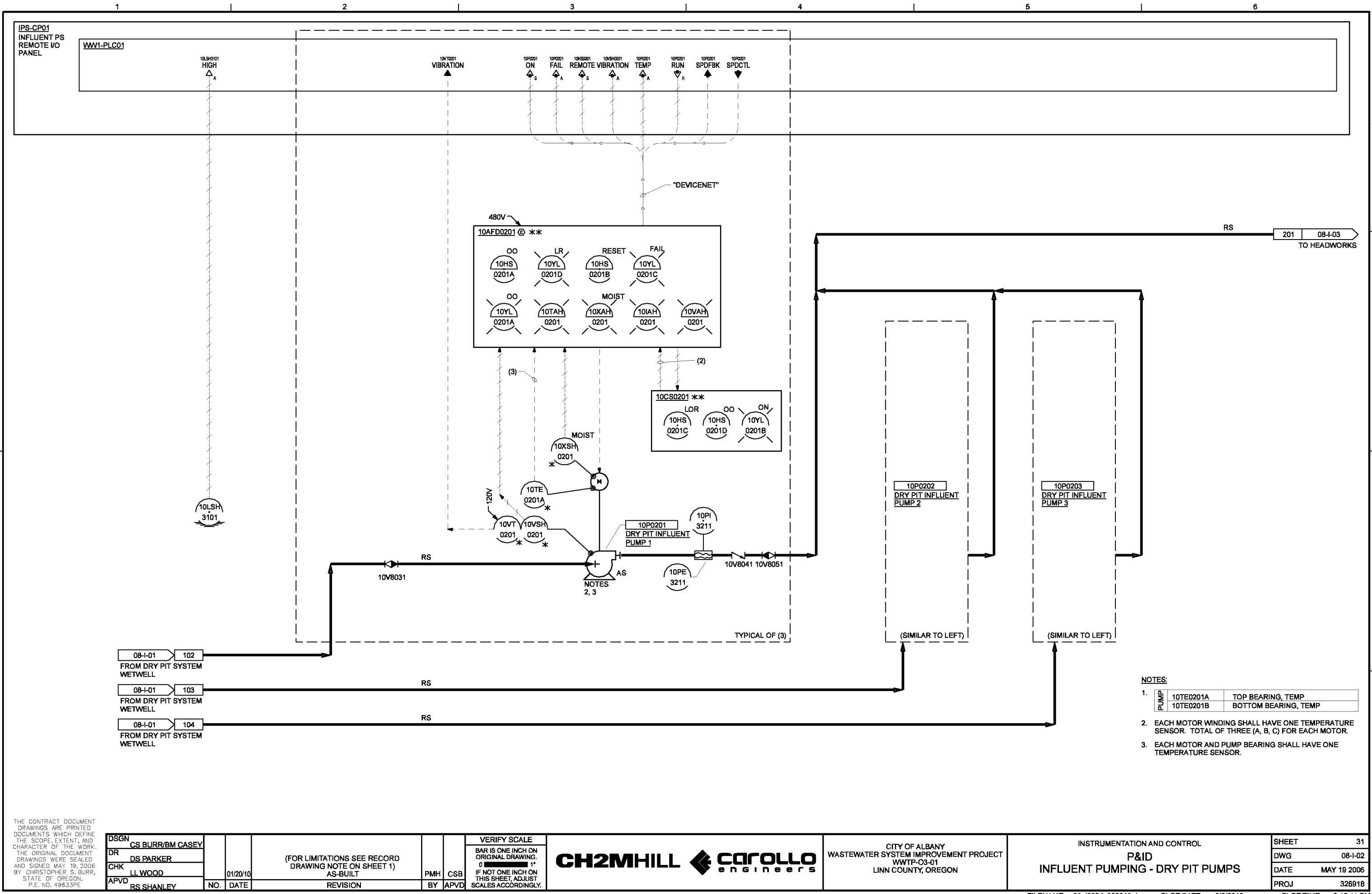


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 INFLUENT PUMPING - WET PIT PUMPS

SHEET	30
DWG	08-I-01
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
- | | | |
|------|-----------|----------------------|
| PUMP | 10TE0201A | TOP BEARING, TEMP |
| | 10TE0201B | BOTTOM BEARING, TEMP |
 - EACH MOTOR WINDING SHALL HAVE ONE TEMPERATURE SENSOR. TOTAL OF THREE (A, B, C) FOR EACH MOTOR.
 - EACH MOTOR AND PUMP BEARING SHALL HAVE ONE TEMPERATURE SENSOR.

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DSGN	CS BURR/BM CASEY								
DR	DS PARKER								
CHK	LL WOOD	01/20/10							
APVD	RS SHANLEY	NO.	DATE	REVISION	BY	APVD			

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

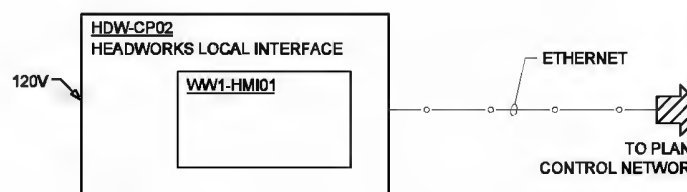
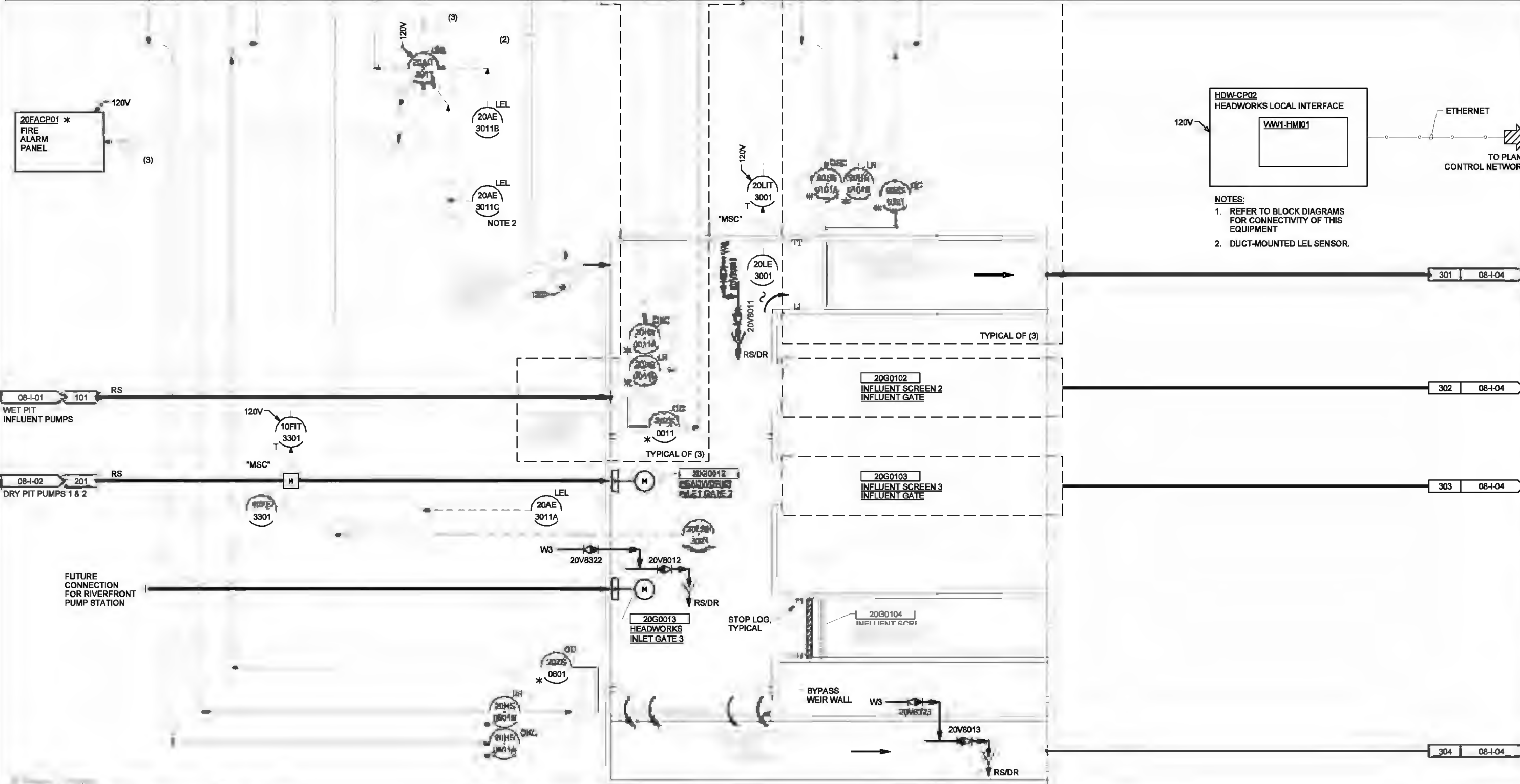
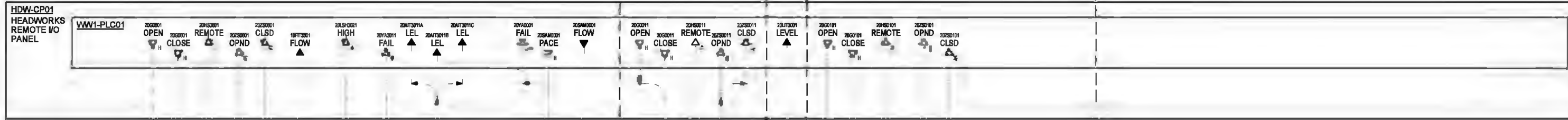


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 INFLUENT PUMPING - DRY PIT PUMPS

SHEET	31
DWG	08-I-02
DATE	MAY 19 2006
PROJ	326918

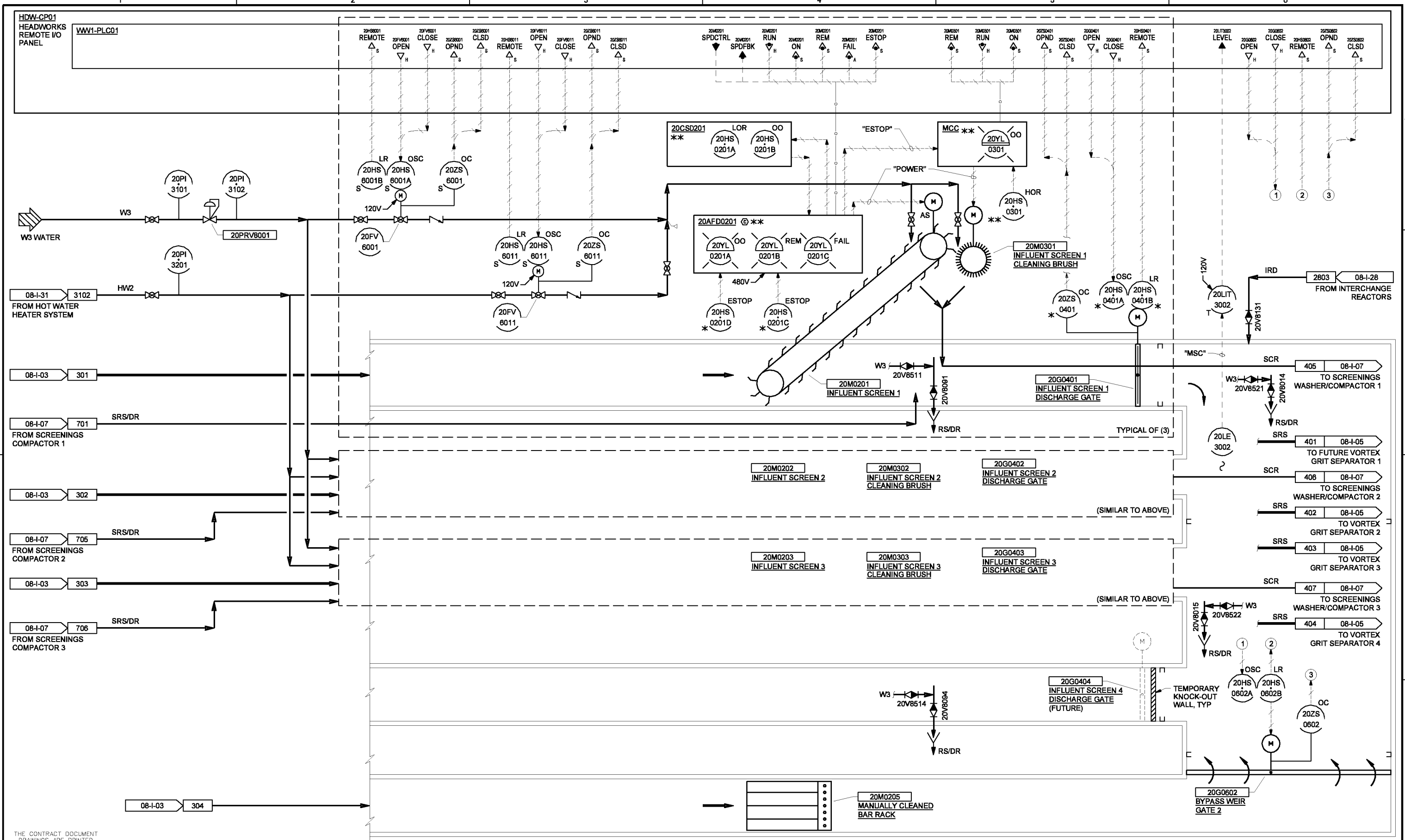
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- NOTES:**
- REFER TO BLOCK DIAGRAMS FOR CONNECTIVITY OF THIS EQUIPMENT
 - DUCT-MOUNTED LEL SENSOR.

DESIGNED: CHUBB DRAWN: DE PANNER CHECKED: J. WOOD APPROVED: CHUBB	NO. DATE REVISION	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CH2MHILL carollo engineers	CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENT PROJECT WWTP-03-01 LINN COUNTY, OREGON	INSTRUMENTATION AND CONTROL P&ID HEADWORKS UPSTREAM SECTION	SHEET 32 DWG 08-I-03 DATE MAY 19 2006 PROJ 326918
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DSGN	CS BURR						
DR	DS PARKER						
CHK	LL WOOD	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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

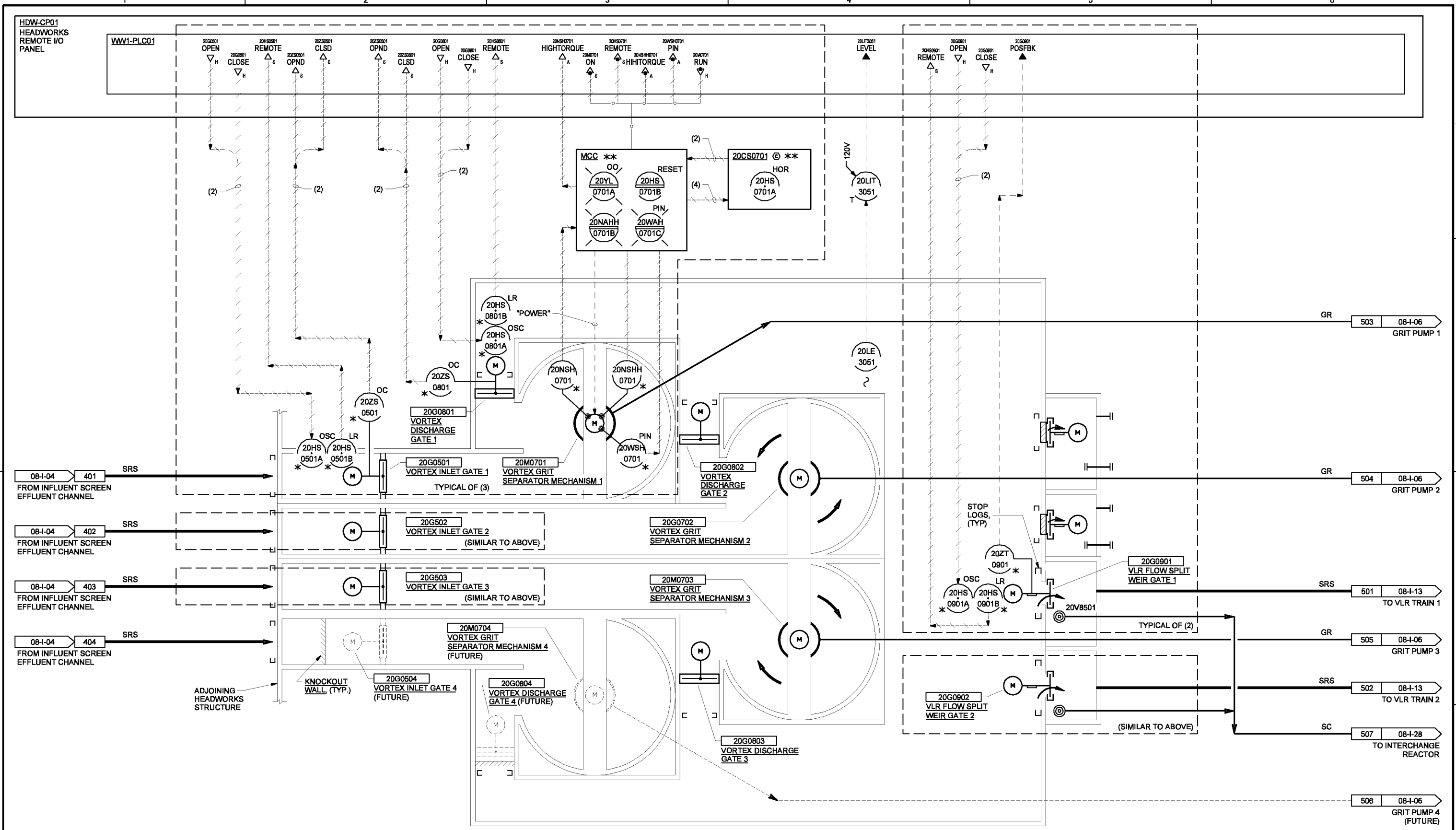


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 HEADWORKS INFLUENT SCREENS

SHEET	33
DWG	08-I-04
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR												
DR	DS PARKER												
CHK	LL WOOD	01/20/10											
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD							

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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

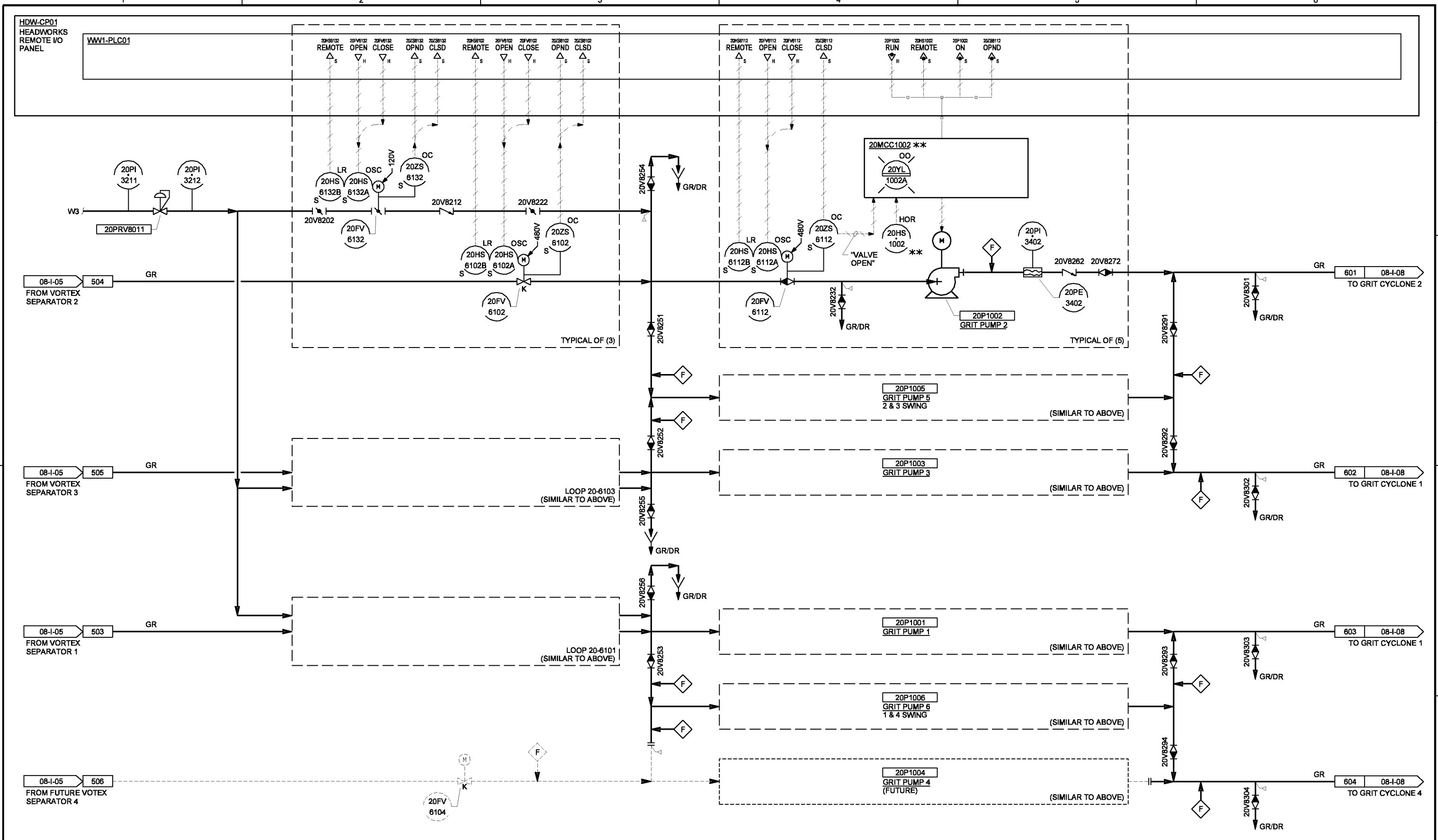


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 HEADWORKS VORTEX GRIT SEPARATORS

SHEET	34
DWG	08-1-05
DATE	MAY 19 2006
PROJ	326918

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DSGN	A ELUGANTI								
DR	DS PARKER								
CHK	CS BURR	01/20/10							
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.

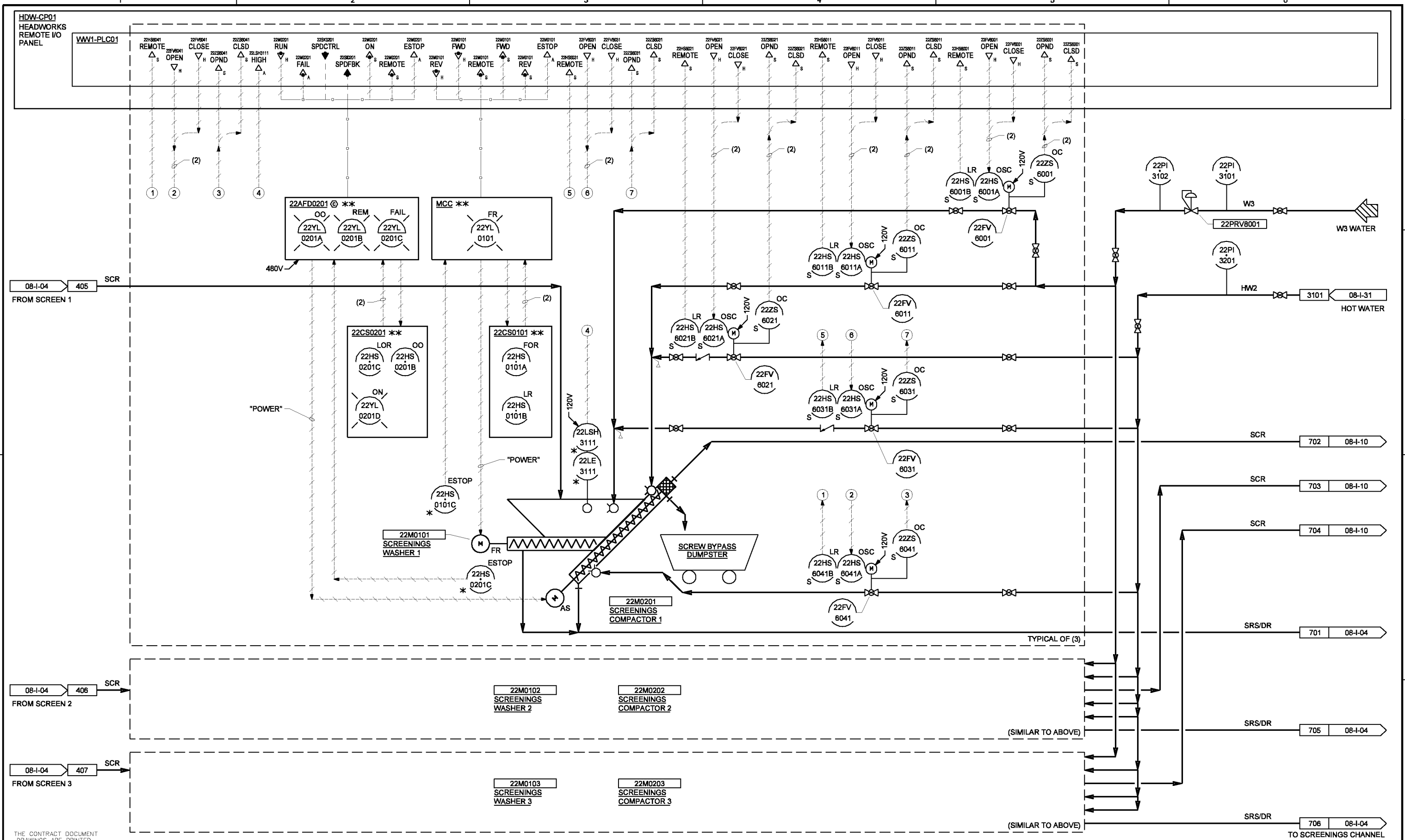
CH2MHILL **CAROLLO** engineers

CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 HEADWORKS GRIT PUMPS

SHEET	35
DWG	08-1-06
DATE	JULY 2007
PROJ	326918

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DSGN	CS BURR										
DR	DS PARKER										
CHK	LL WOOD	01/20/10									
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD					

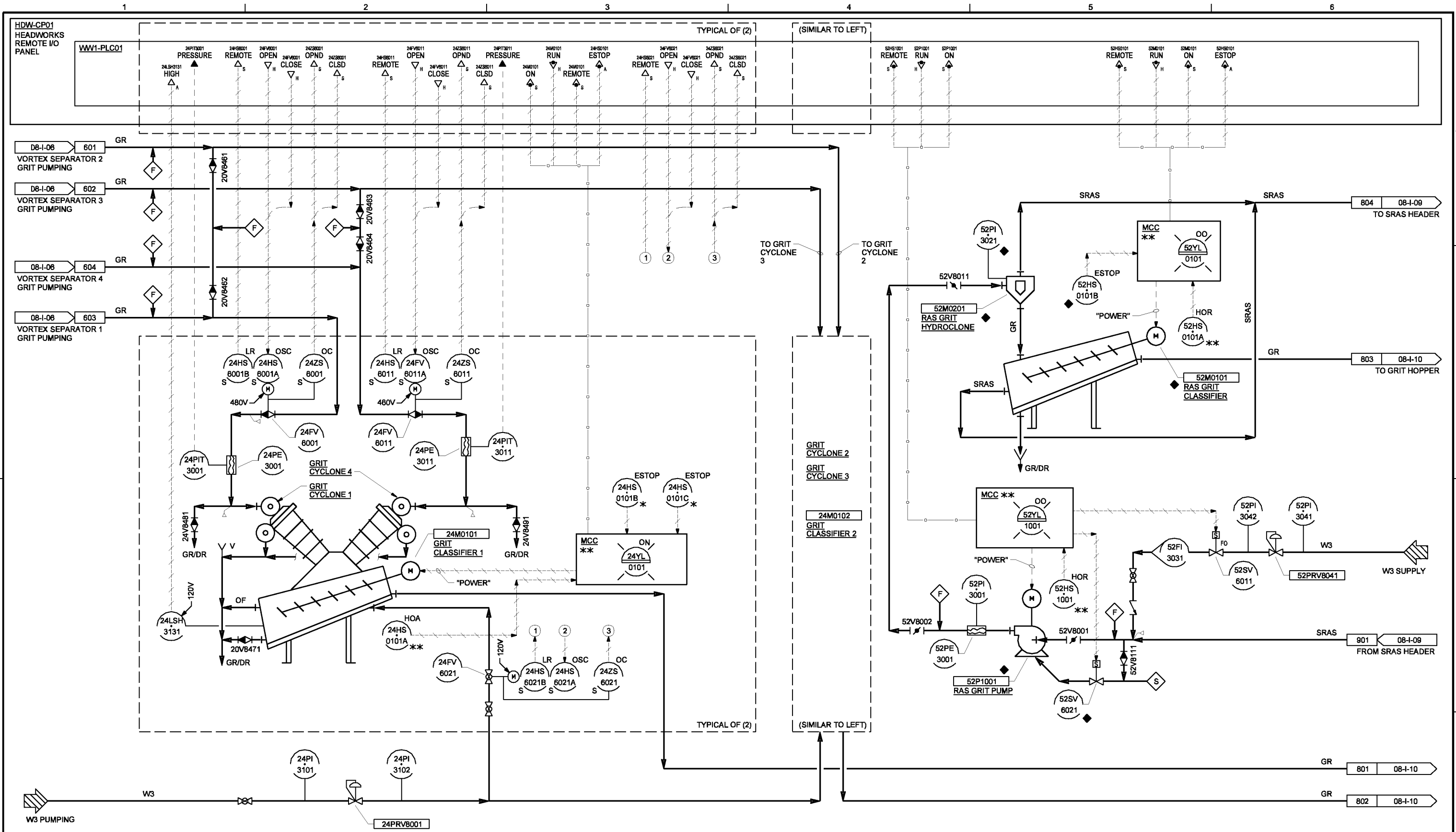


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
HEADWORKS WASHER/COMPACTORS

SHEET	36
DWG	08-I-07
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR						
DR	DS PARKER						
CHK	LL WOOD	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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



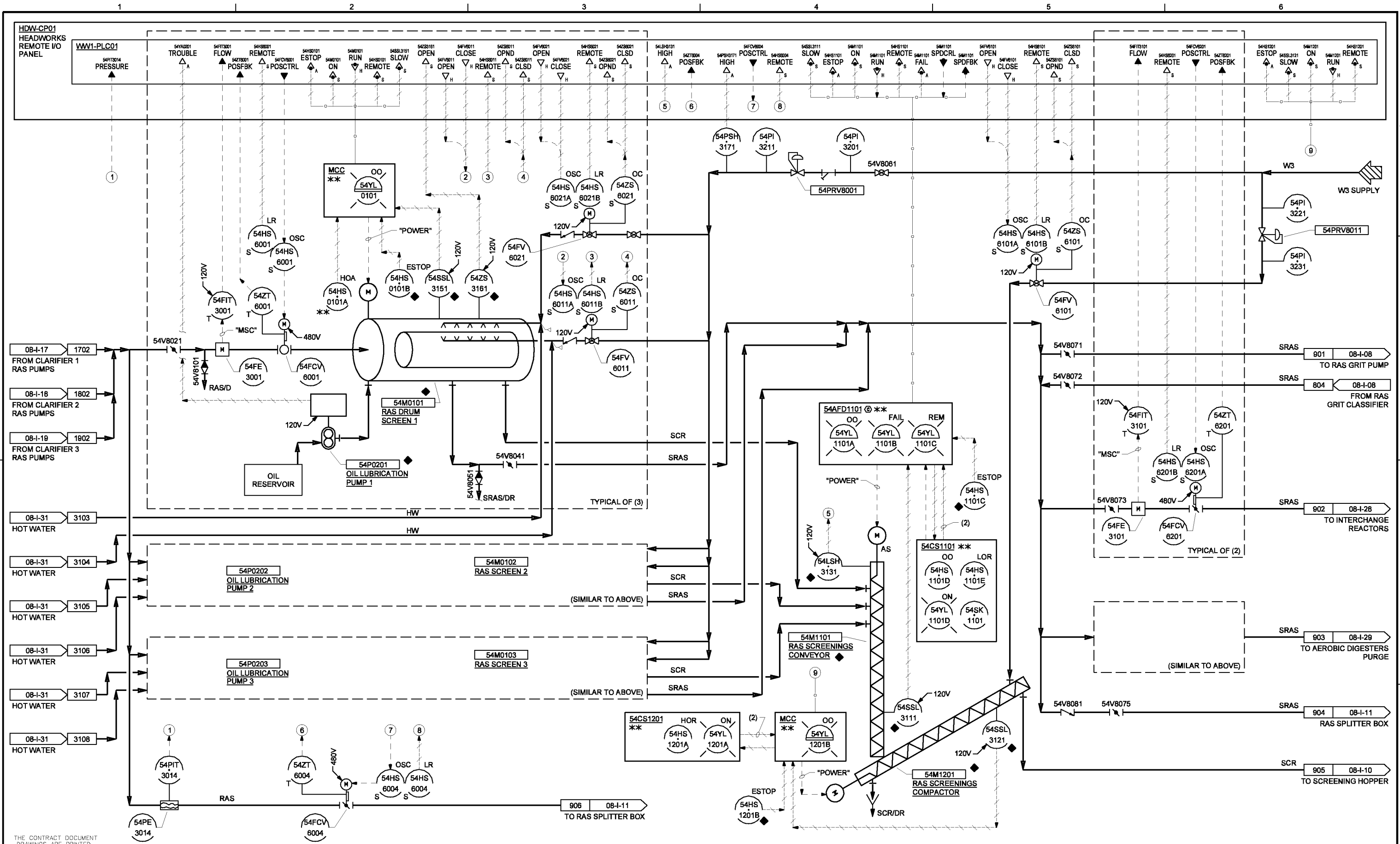
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 P&ID
 HEADWORKS AND RAS GRIT CLASSIFIERS

SHEET	37
DWG	08-1-08
DATE	MAY 19 2006
PROJ	326918

FILENAME: 08ni008d_326918.dgn PLOT DATE: 3/8/2010 PLOT TIME: 2:47:10 PM

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DSGN	CS BURR								
DR	DS PARKER								
CHK	LL WOOD								
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			
			01/20/10	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	PMH	CSB			

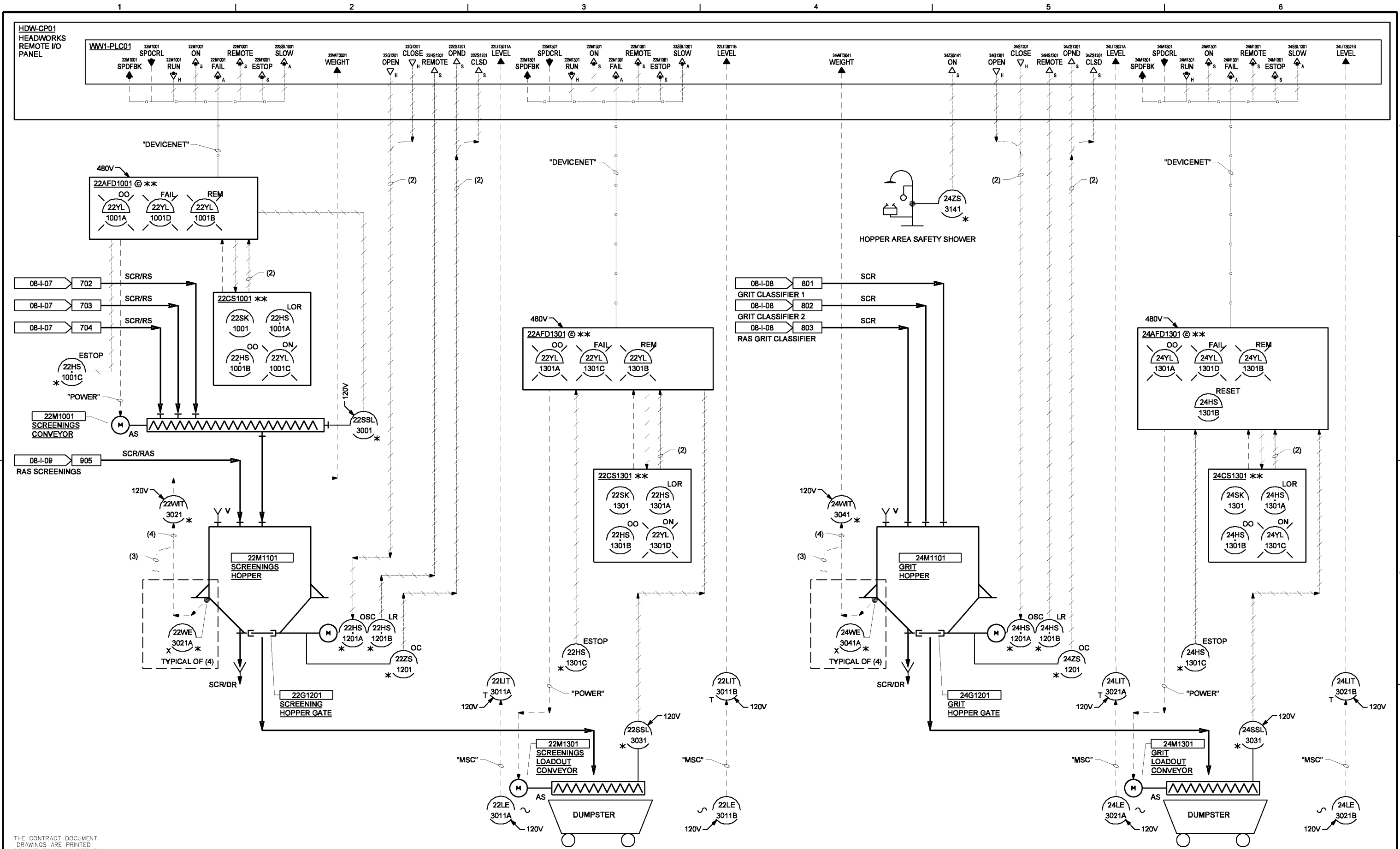


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
RAS SCREENS

SHEET	38
DWG	08-I-09
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR						
DR	DS PARKER						
CHK	LL WOOD	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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

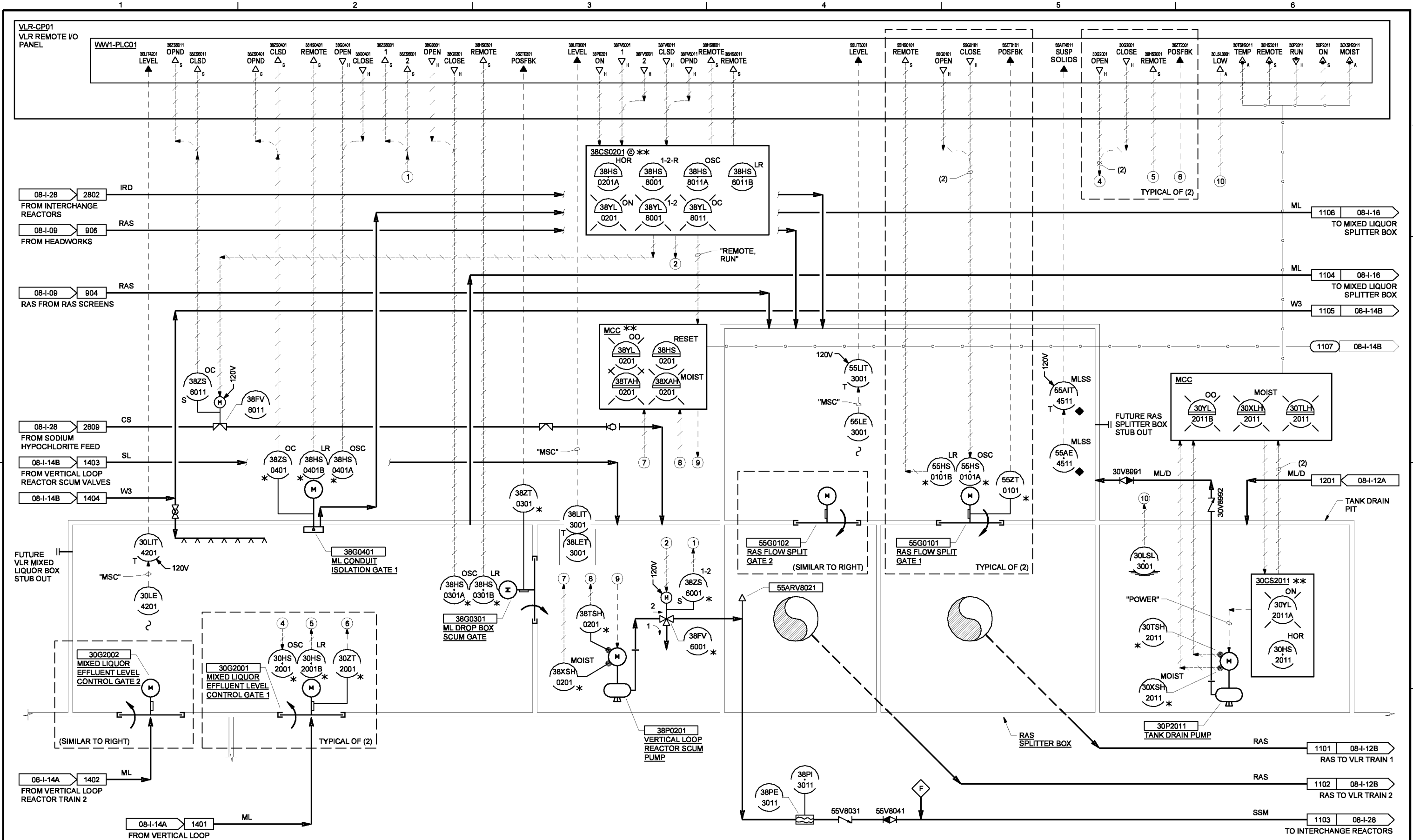


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 SCREENINGS AND GRIT HANDLING

SHEET	39
DWG	08-I-10
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR							
DR	DS PARKER							
CHK	LL WOOD		01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD		

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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 0 1"
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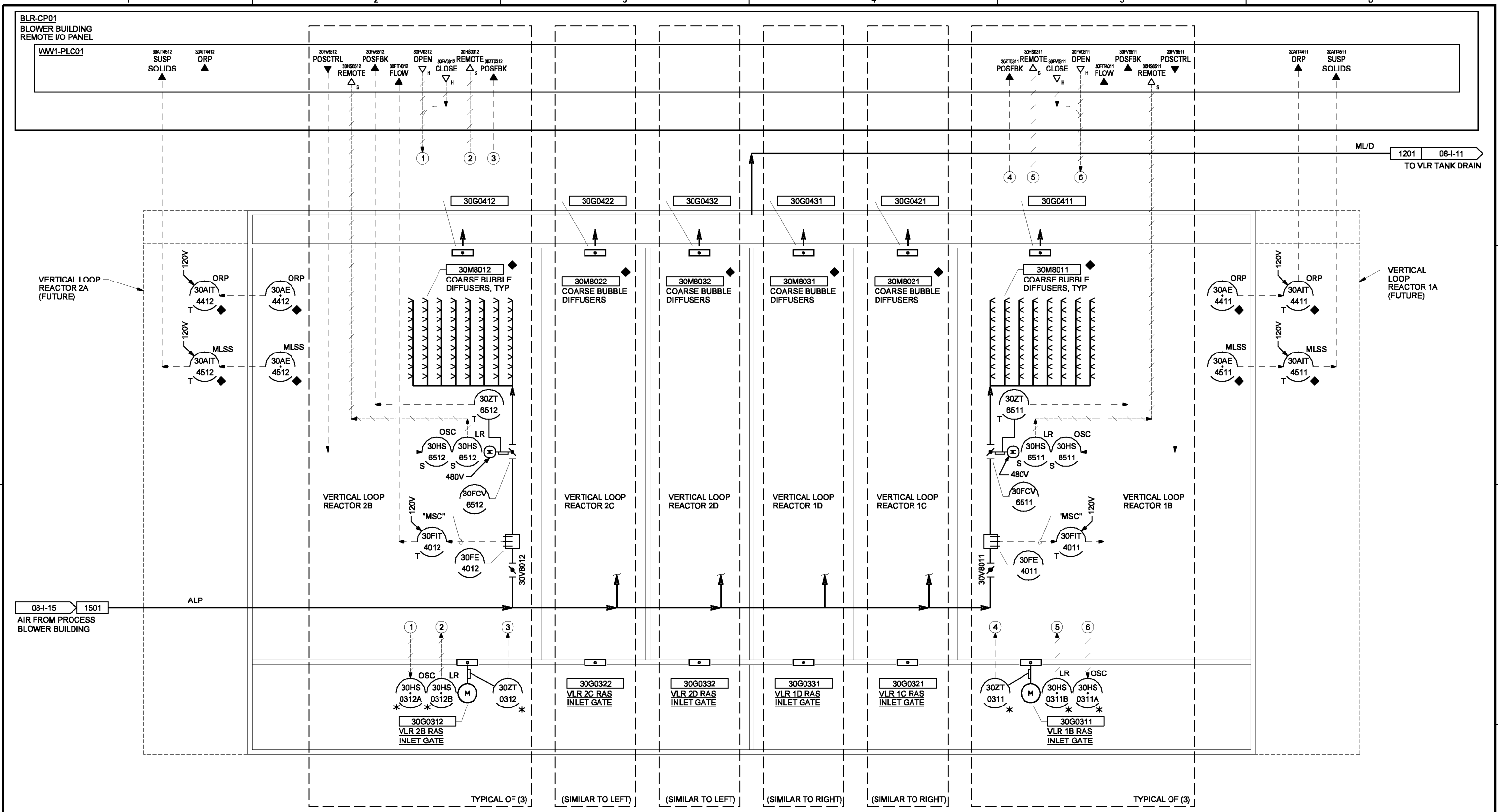
CH2MHILL **carollo engineers**

CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 VLR FLOW CONTROL STRUCTURE

SHEET	40
DWG	08-I-11
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR	NO.	DATE	REVISION	BY	APVD	VERIFICATION	SCALE
DR	DS PARKER							
CHK	LL WOOD							
APVD	CW MASSIE							

FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

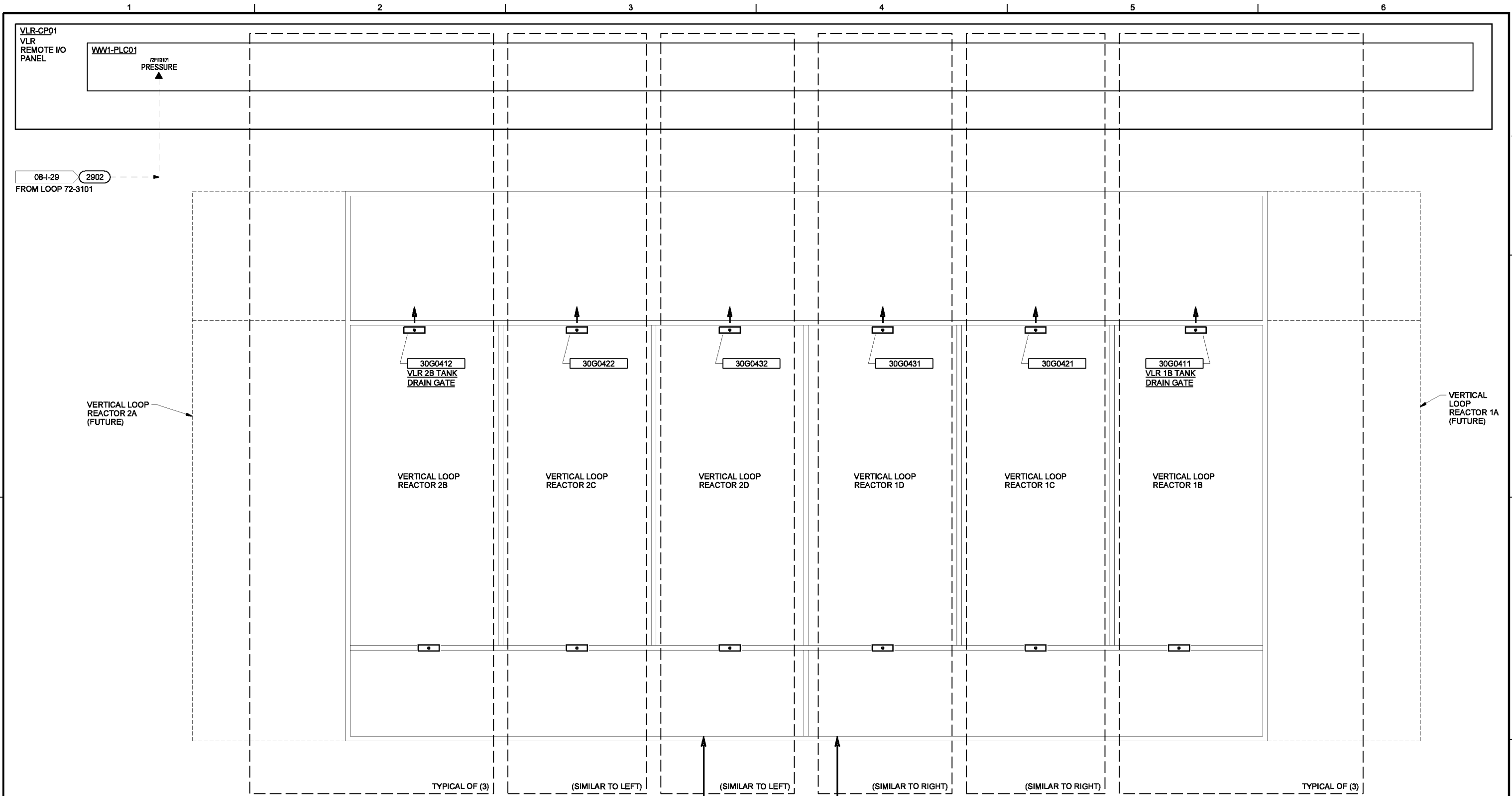
VERIFY SCALE
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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 VERTICAL LOOP REACTORS - LOWER
 (SOUTH END)

SHEET	41
DWG	08-1-12A
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR								
DR	DS PARKER								
CHK	LL WOOD	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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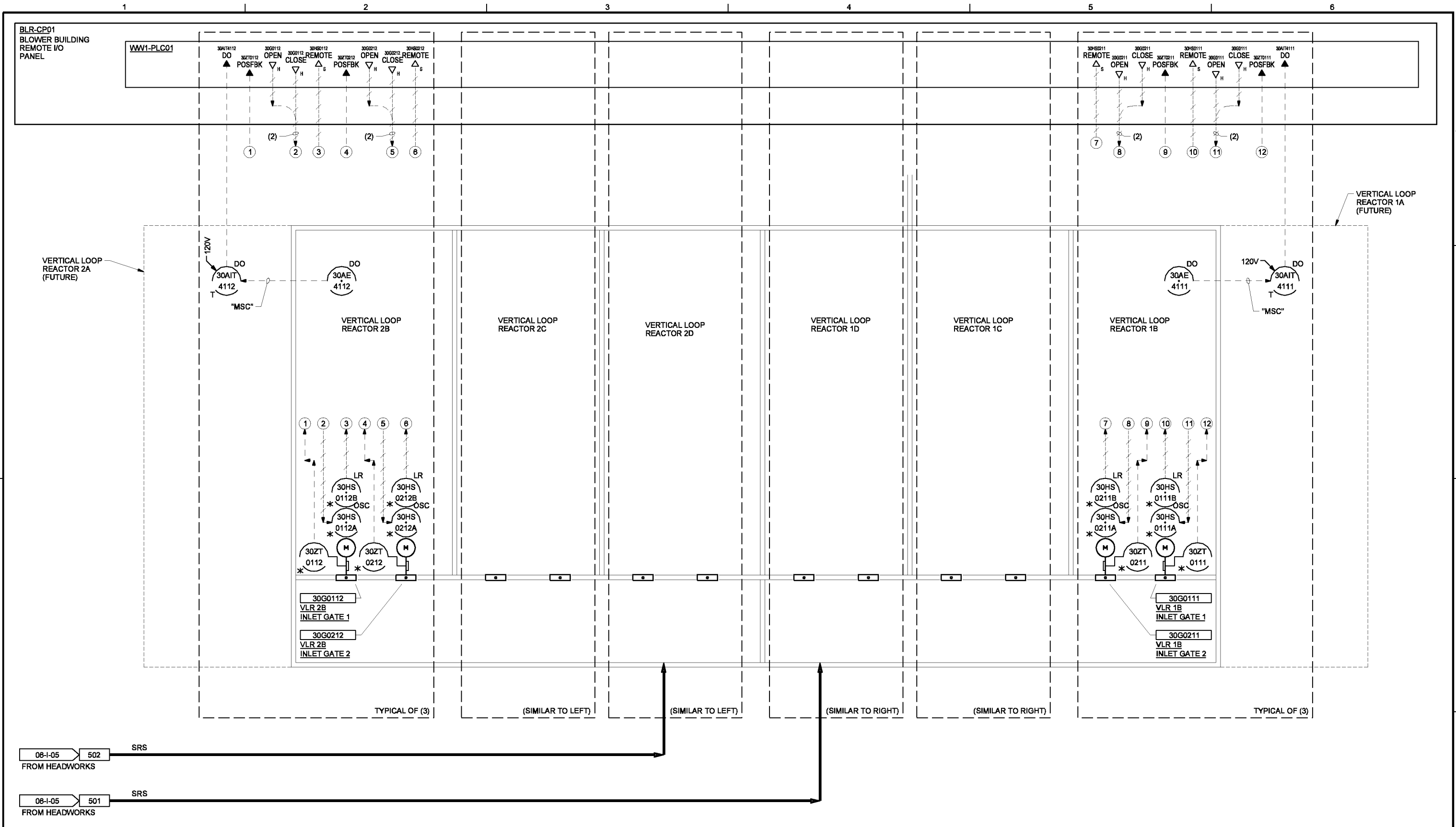


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
VERTICAL LOOP REACTORS - LOWER (NORTH END)

SHEET	42
DWG	08-1-12B
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR						
DR	DS PARKER						
CHK	LL WOOD	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
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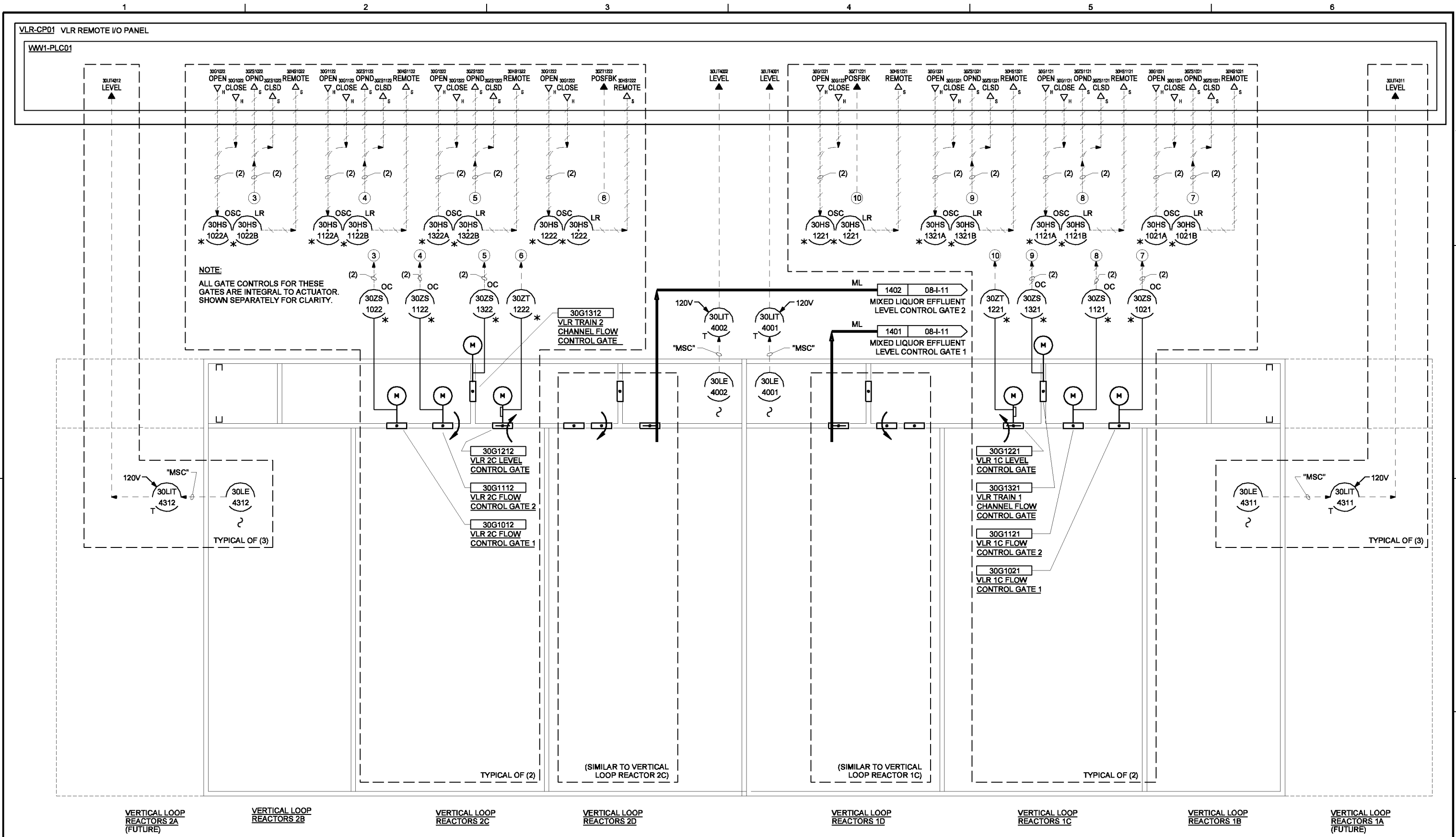


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 P&ID
 VERTICAL LOOP REACTORS - INTERMEDIATE

SHEET	43
DWG	08-1-13
DATE	MAY 19 2006
PROJ	326918

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NOTE:
ALL GATE CONTROLS FOR THESE GATES ARE INTEGRAL TO ACTUATOR. SHOWN SEPARATELY FOR CLARITY.

VERTICAL LOOP REACTORS 2A (FUTURE) VERTICAL LOOP REACTORS 2B VERTICAL LOOP REACTORS 2C VERTICAL LOOP REACTORS 2D VERTICAL LOOP REACTORS 1D VERTICAL LOOP REACTORS 1C VERTICAL LOOP REACTORS 1B VERTICAL LOOP REACTORS 1A (FUTURE)

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DSGN	CS BURR	NO.	DATE	REVISION	BY	APVD	VERIFY SCALE
DR	DS PARKER						
CHK	LL WOOD						
APVD	CW MASSIE						
				(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	PMH	CSB	BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

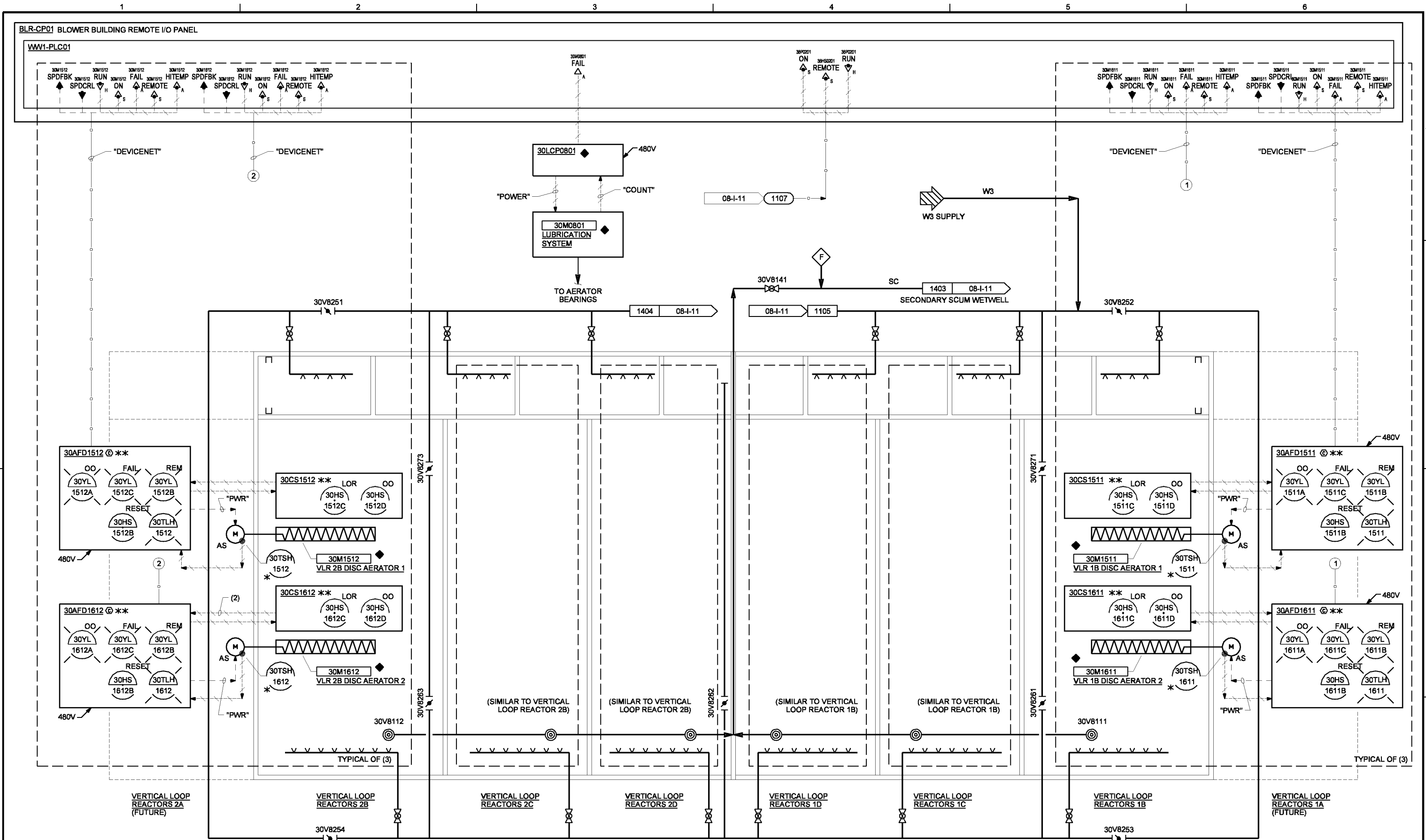


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
VERTICAL LOOP REACTORS - UPPER (GATES)

SHEET	44
DWG	08-1-14A
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR	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.
DR	DS PARKER						
CHK	LL WOOD						
APVD	CW MASSIE						

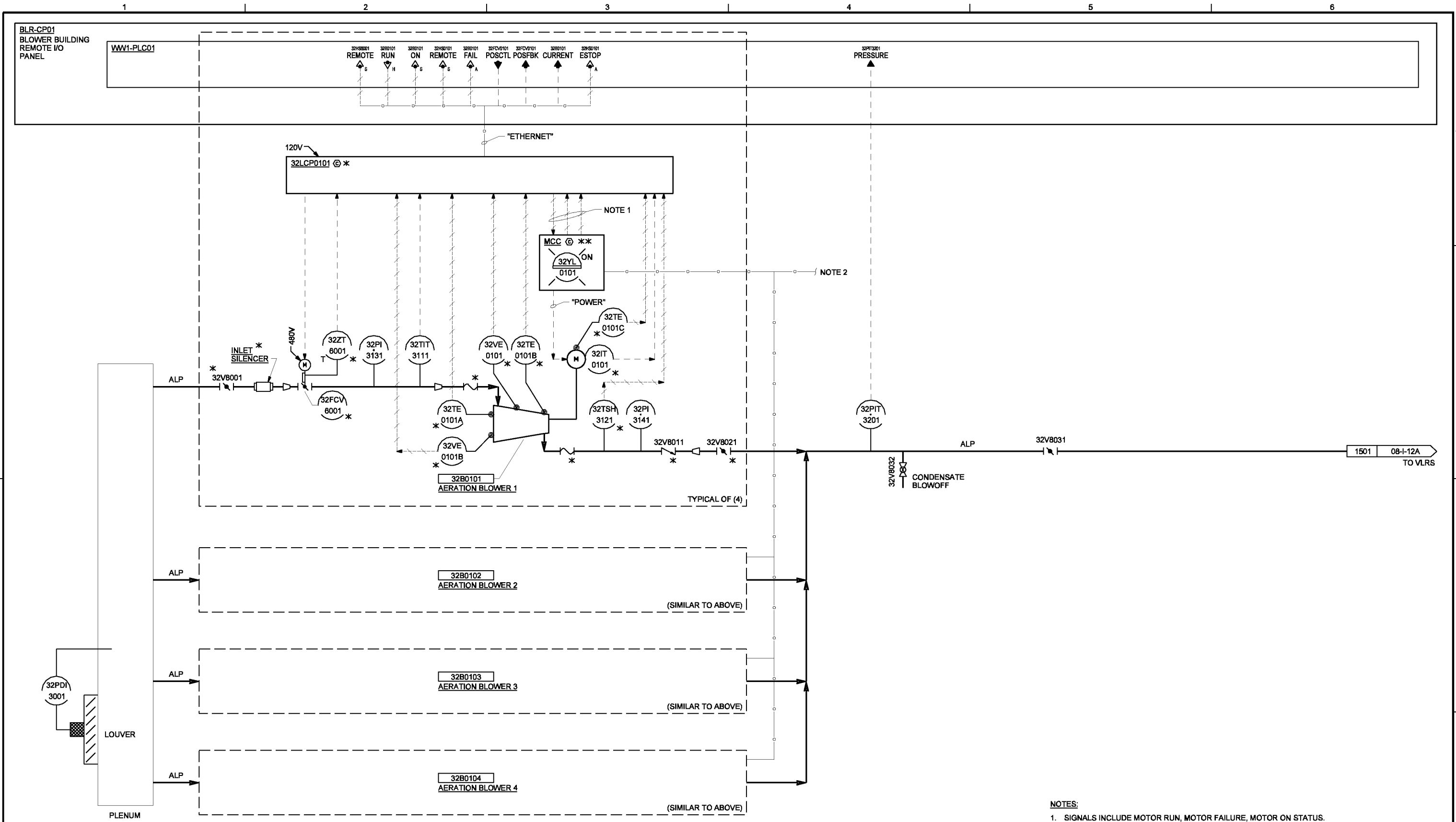


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
VERTICAL LOOP REACTORS - UPPER
(AERATORS)

SHEET	45
DWG	08-1-14B
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
- SIGNALS INCLUDE MOTOR RUN, MOTOR FAILURE, MOTOR ON STATUS.
 - REFER TO BLOCK DIAGRAMS FOR DEVICE-NET CONNECTIVITY. I/O FOR THIS EQUIPMENT IS MONITORED BY PACKAGE SYSTEM CONTROLLER.

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DSGN	CS BURR																			
DR	DS PARKER																			
CHK	LL WOOD	01/20/10																		
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.

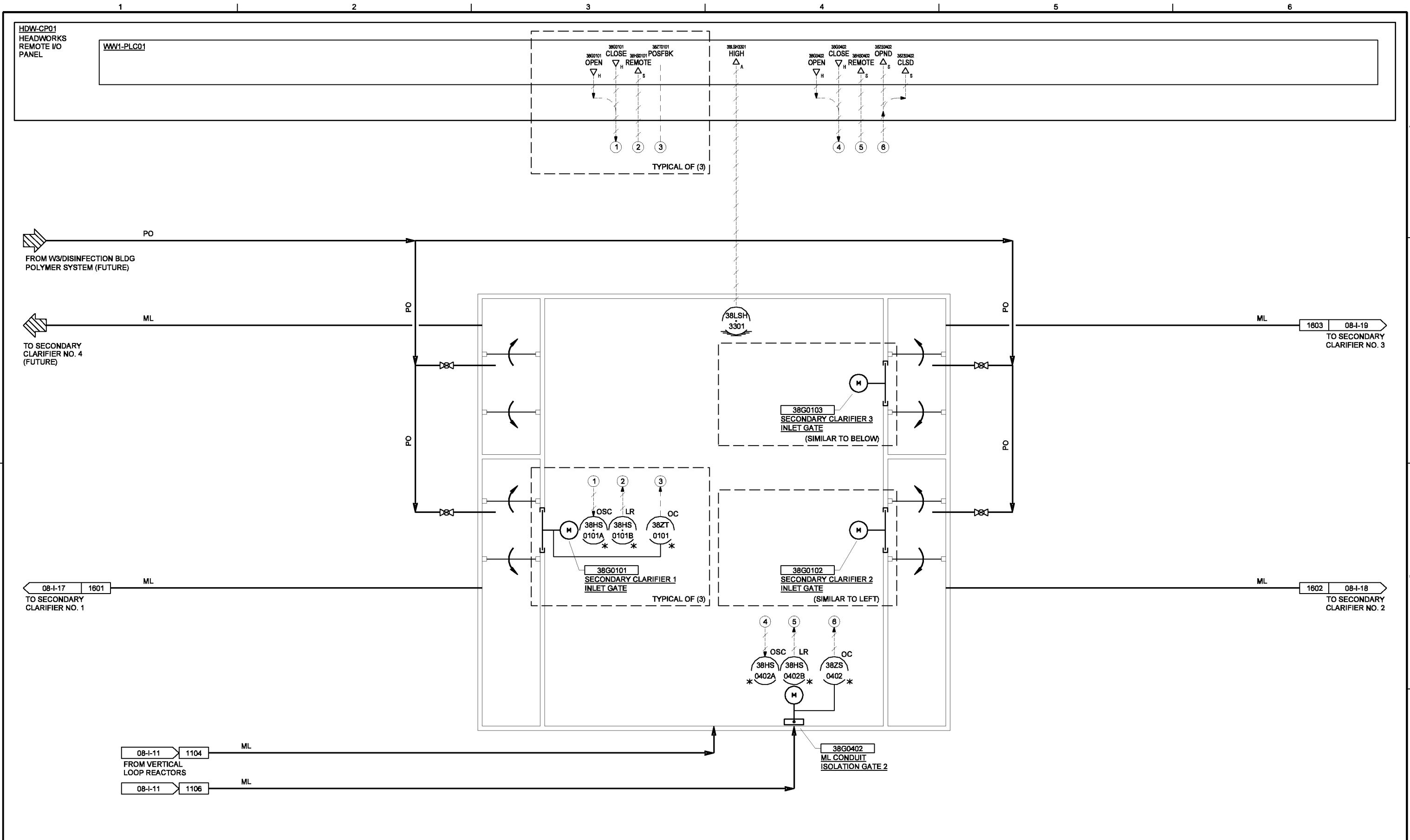
CH2MHILL **CAROLLO** engineers

CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
PROCESS BLOWERS

SHEET	46
DWG	08-1-15
DATE	MAY 19 2006
PROJ	326918

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DSGN	BURR/KATALINICH								
DR	DS PARKER								
CHK	LL WOOD	01/20/10							
APVD	RS SHANLEY	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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

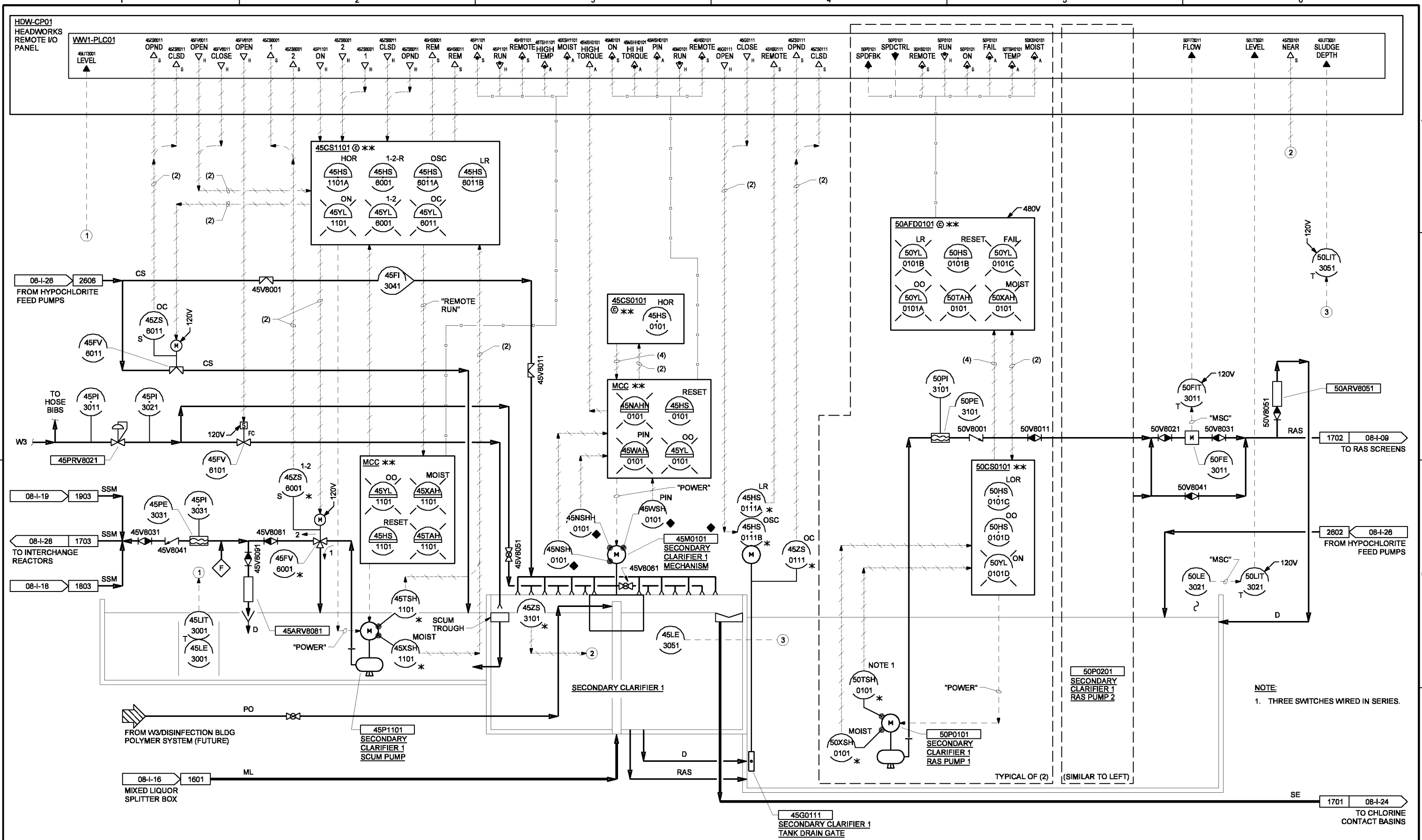


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
MIXED LIQUOR SPLITTER BOX

SHEET	47
DWG	08-I-16
DATE	MAY 19 2006
PROJ	326918

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DSGN	BURR/KATALINICH				
DR	DS PARKER				
CHK	LL WOOD	01/20/10			
APVD	RS SHANLEY	NO.	DATE	REVISION	BY

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

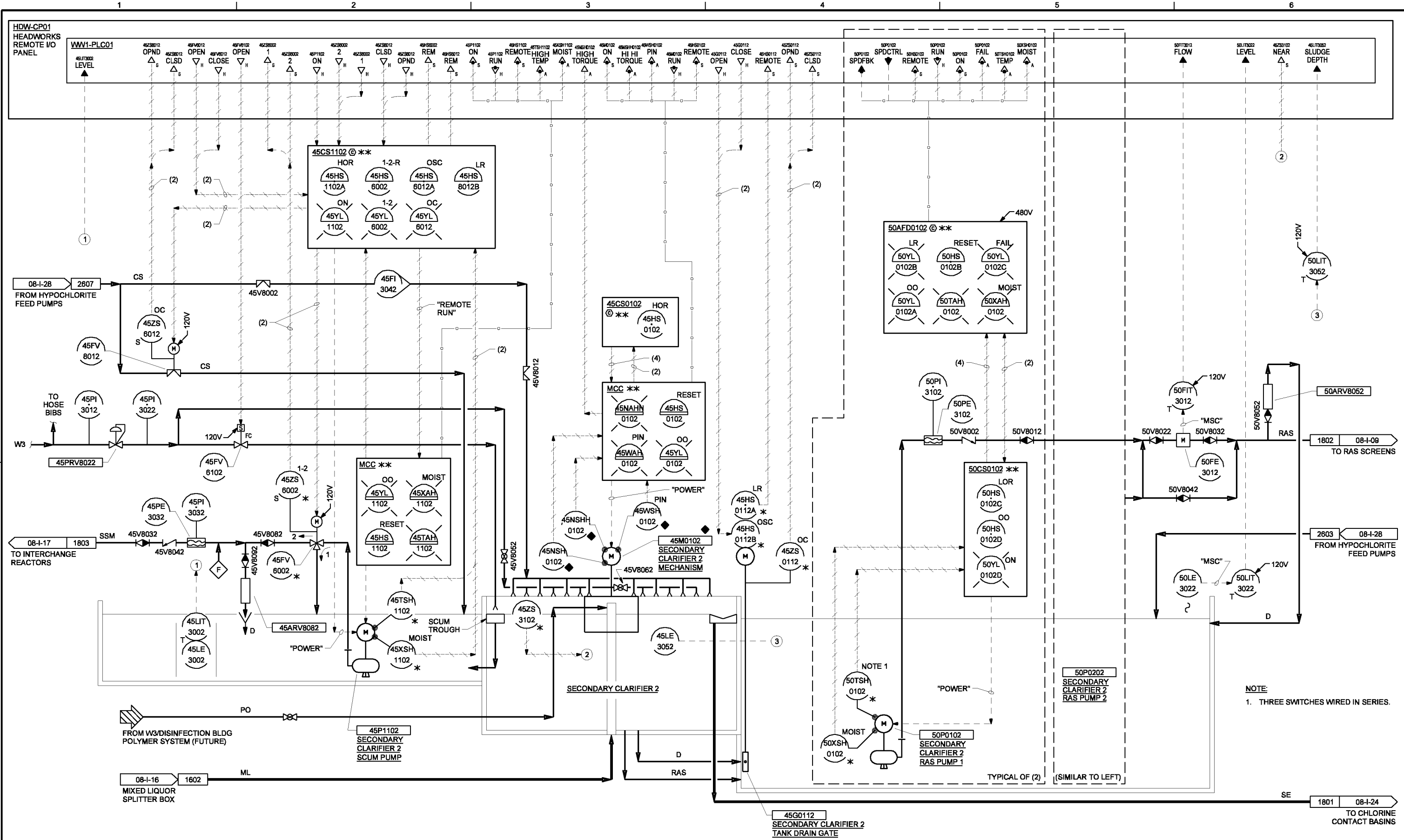


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 SECONDARY CLARIFIER /
 RAS PUMP STATION 1

SHEET	48
DWG	08-I-17
DATE	MAY 19 2006
PROJ	326918

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DSGN	BURR/KATALINICH	NO.	DATE	REVISION	BY	APVD
DR	DS PARKER					
CHK	LL WOOD		01/20/10		PMH	CSB
APVD	RS SHANLEY					

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

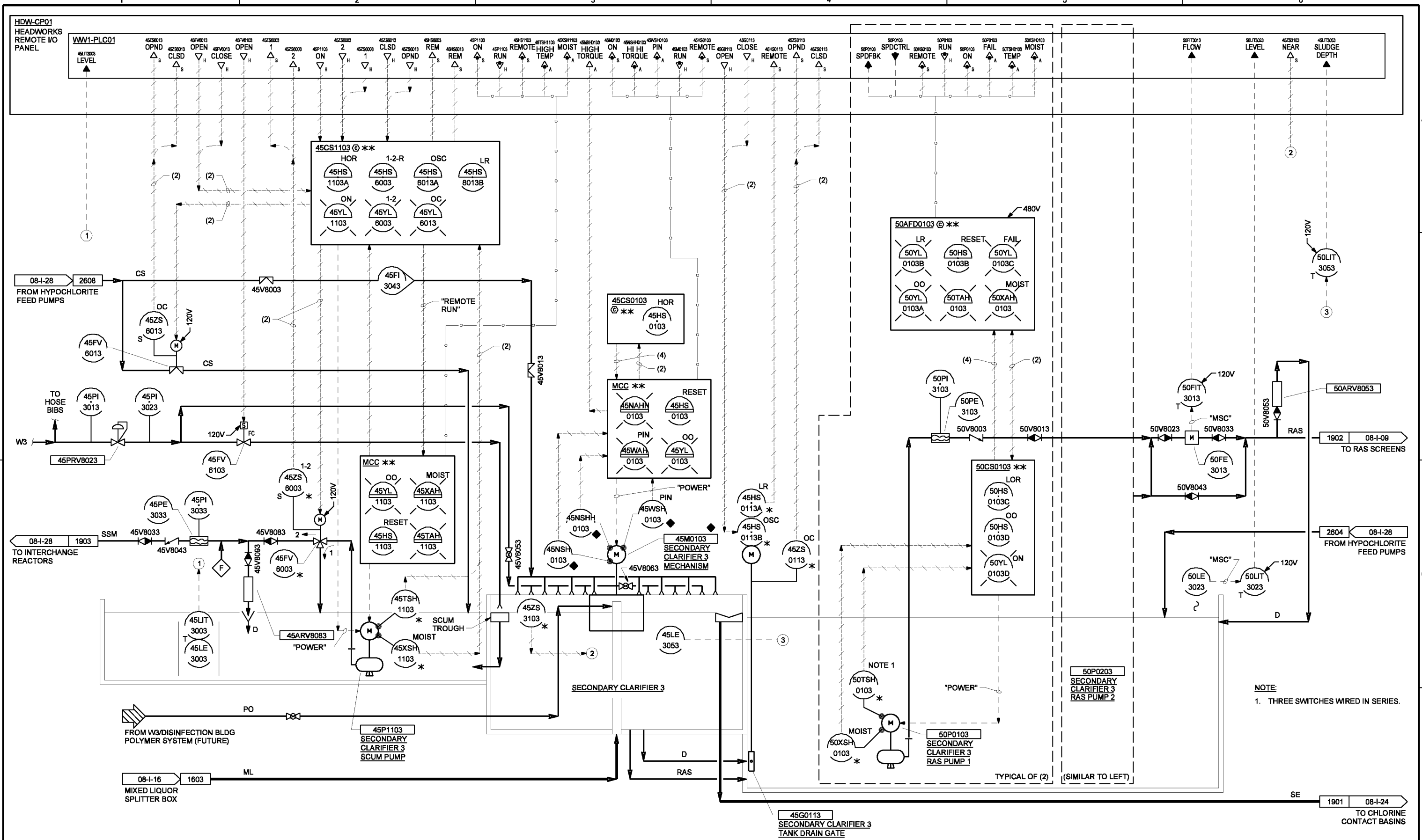
CH2MHILL **CAROLLO** engineers

CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 SECONDARY CLARIFIER /
 RAS PUMP STATION 2

SHEET	49
DWG	08-I-18
DATE	MAY 19 2006
PROJ	326918

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DSGN	BURR/KATALINICH						
DR	DS PARKER						
CHK	LL WOOD	01/20/10					
APVD	RS SHANLEY	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
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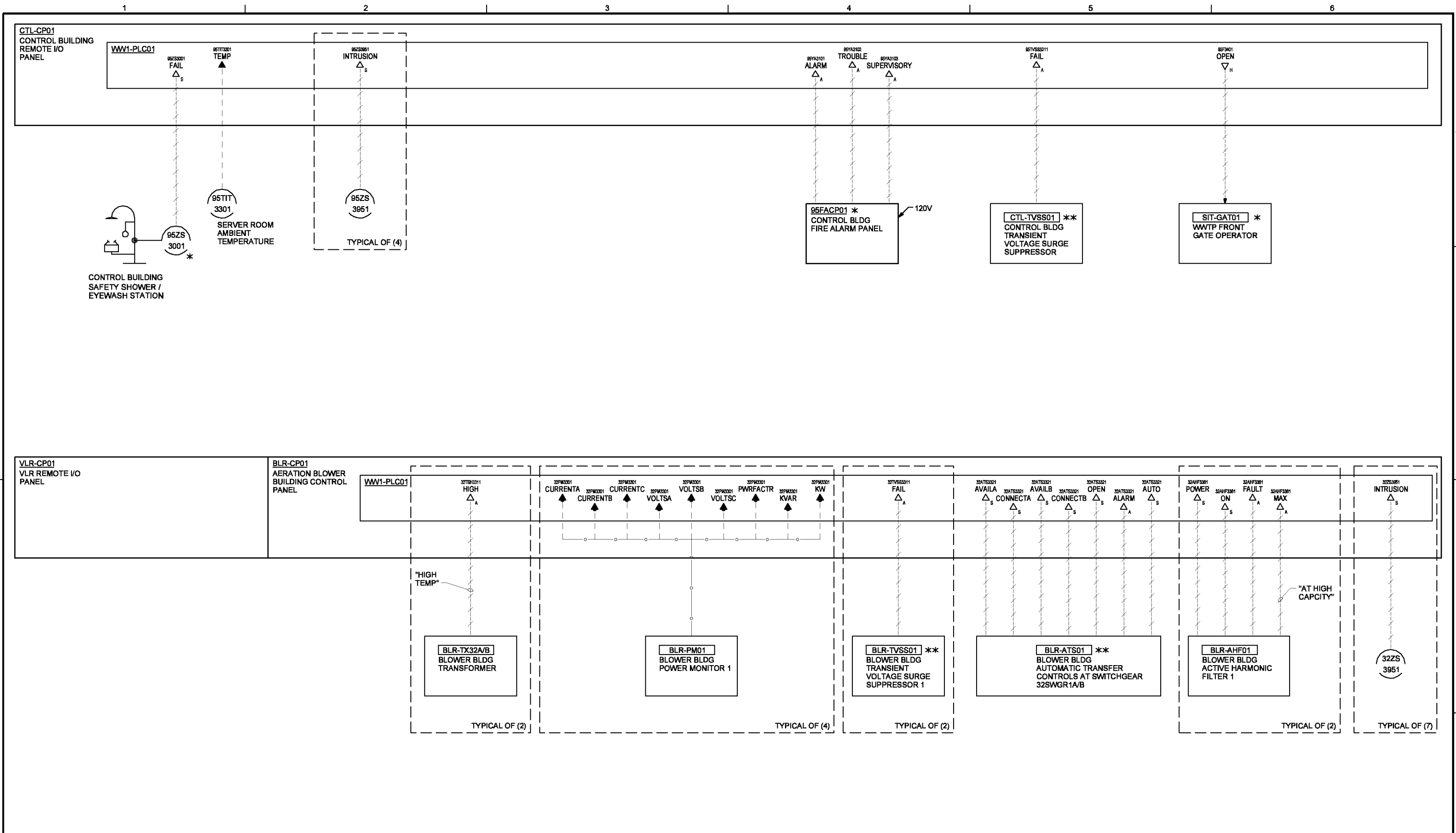


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 SECONDARY CLARIFIER /
 RAS PUMP STATION 3

SHEET	50
DWG	08-I-19
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR																			
DR	DS PARKER																			
CHK	LL WOOD	01/20/10																		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD														

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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

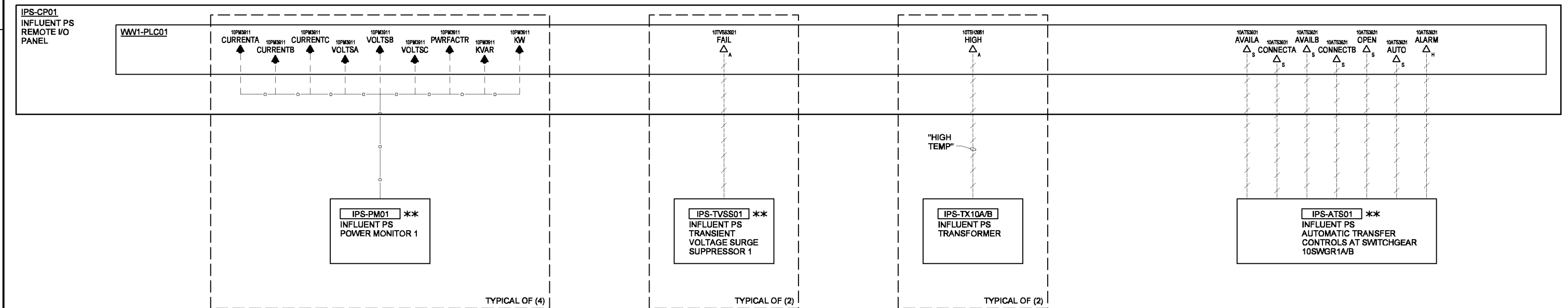
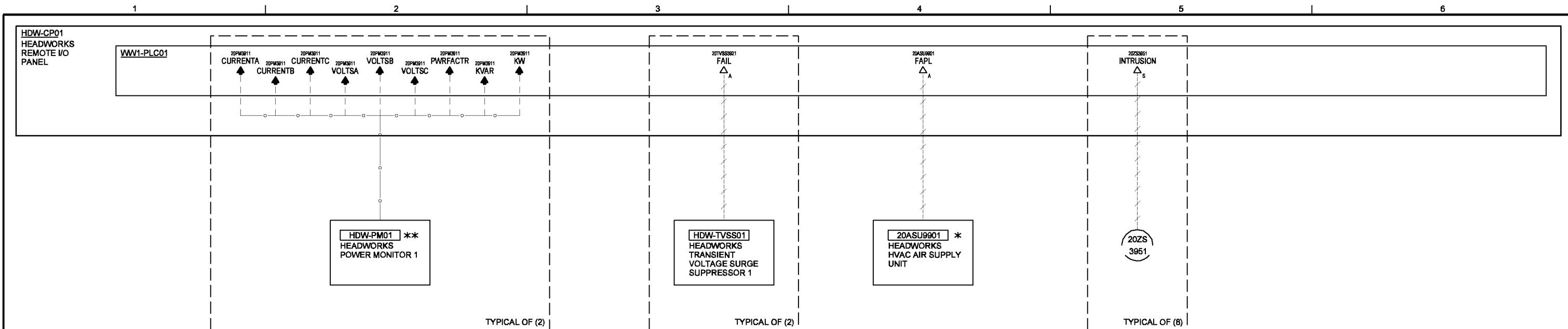


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 MISCELLANEOUS SYSTEMS MONITORING
 SHEET 1

SHEET	51
DWG	08-I-20
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR								
DR	DS PARKER								
CHK	LL WOOD	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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

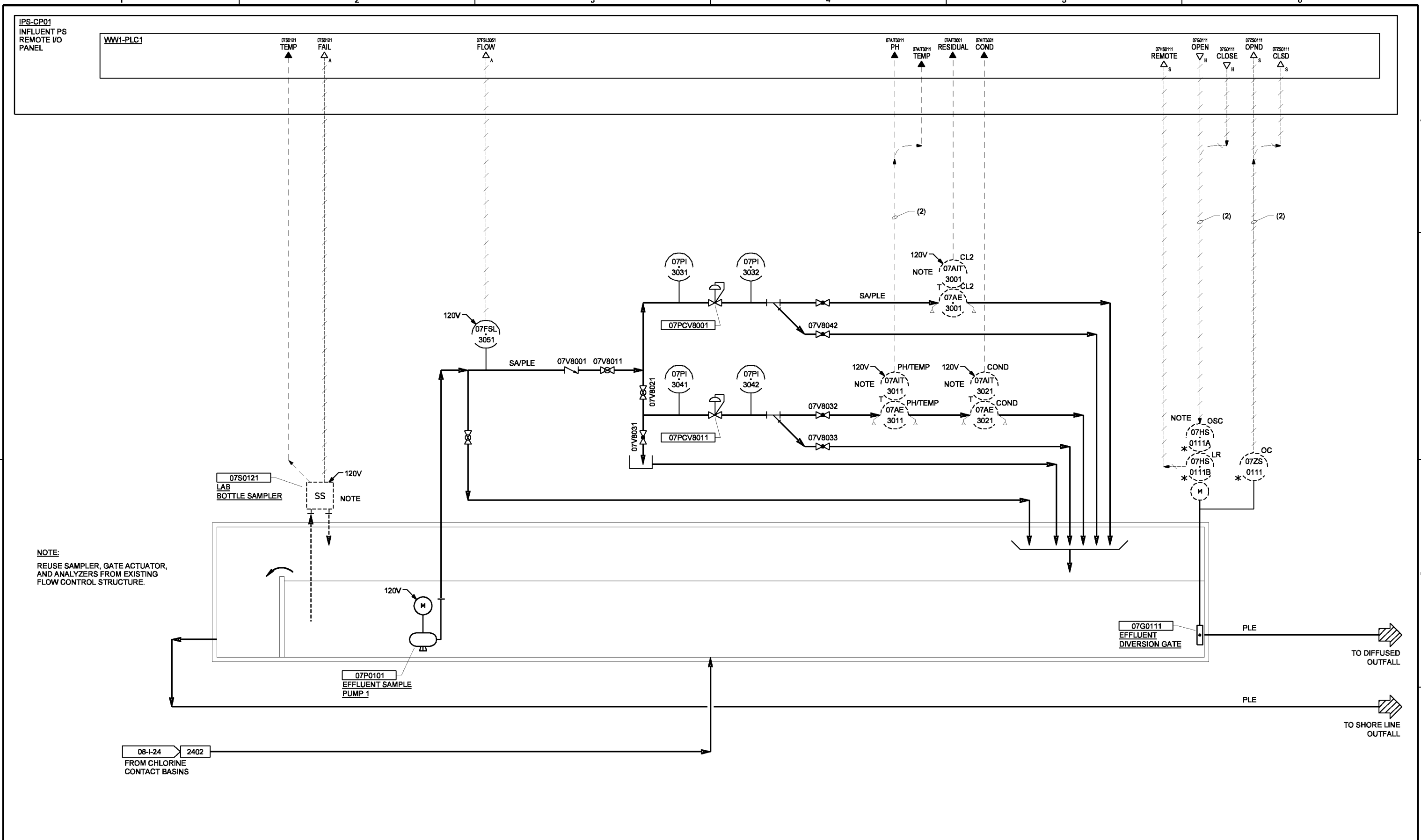


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
MISCELLANEOUS SYSTEMS MONITORING
SHEET 2

SHEET	52
DWG	08-1-21
DATE	MAY 19 2006
PROJ	326918

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NOTE:
REUSE SAMPLER, GATE ACTUATOR,
AND ANALYZERS FROM EXISTING
FLOW CONTROL STRUCTURE.

THE CONTRACT DOCUMENT
DRAWINGS ARE PRINTED
DOCUMENTS WHICH DEFINE
THE SCOPE, EXTENT, AND
CHARACTER OF THE WORK.
THE ORIGINAL DOCUMENT
DRAWINGS WERE SEALED
AND SIGNED MAY 19, 2006
BY CHRISTOPHER S. BURR,
STATE OF OREGON,
P.E. NO. 49633PE

DSGN	BURR/KATALINICH								
DR	DS PARKER								
CHK	LL WOOD	01/20/10							
APVD	RS SHANLEY	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD
DRAWING NOTE ON SHEET 1)
AS-BUILT

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

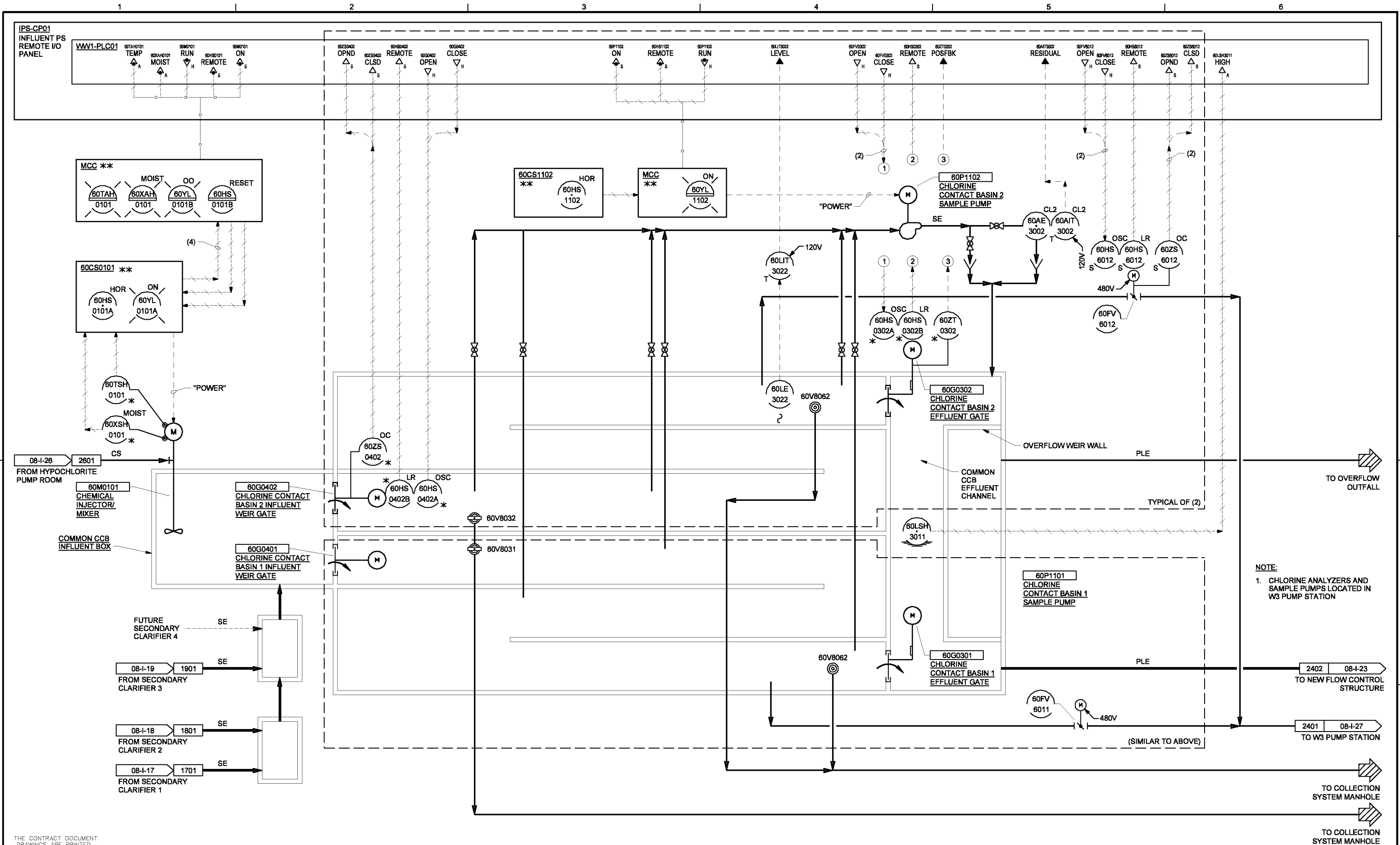


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
FLOW CONTROL STRUCTURE

SHEET	53
DWG	08-1-23
DATE	MAY 19 2006
PROJ	326918

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NOTE:
1. CHLORINE ANALYZERS AND SAMPLE PUMPS LOCATED IN W3 PUMP STATION

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DSGN	CS BURR/BM CASEY						
DR	DS PARKER						
CHK	LL WOOD	01/20/10					
APVD	RS SHANLEY	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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

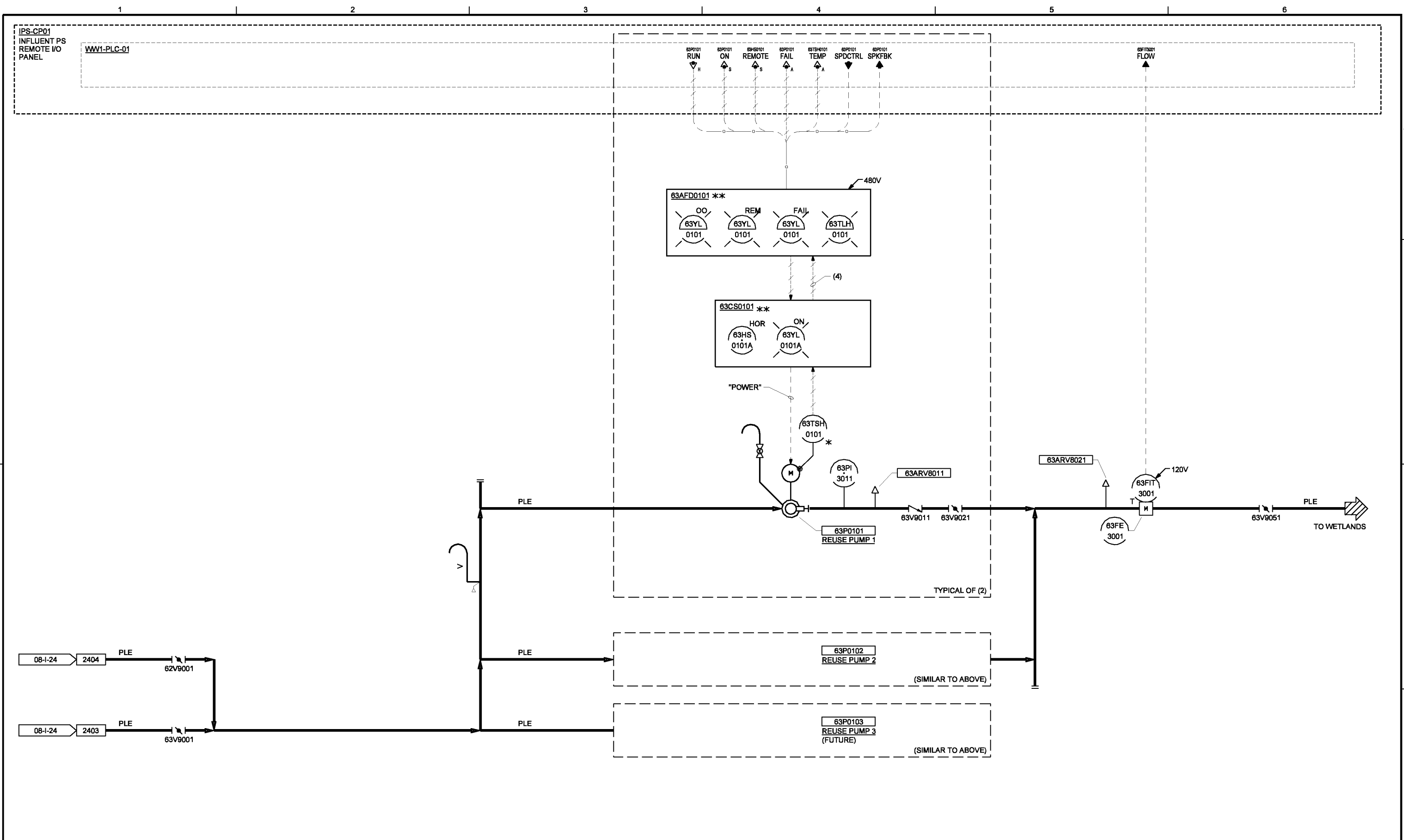


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
NEW CHLORINE CONTACT BASINS

SHEET	54
DWG	08-I-24
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR								
DR	DS PARKER								
CHK	KL MAESTRI	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
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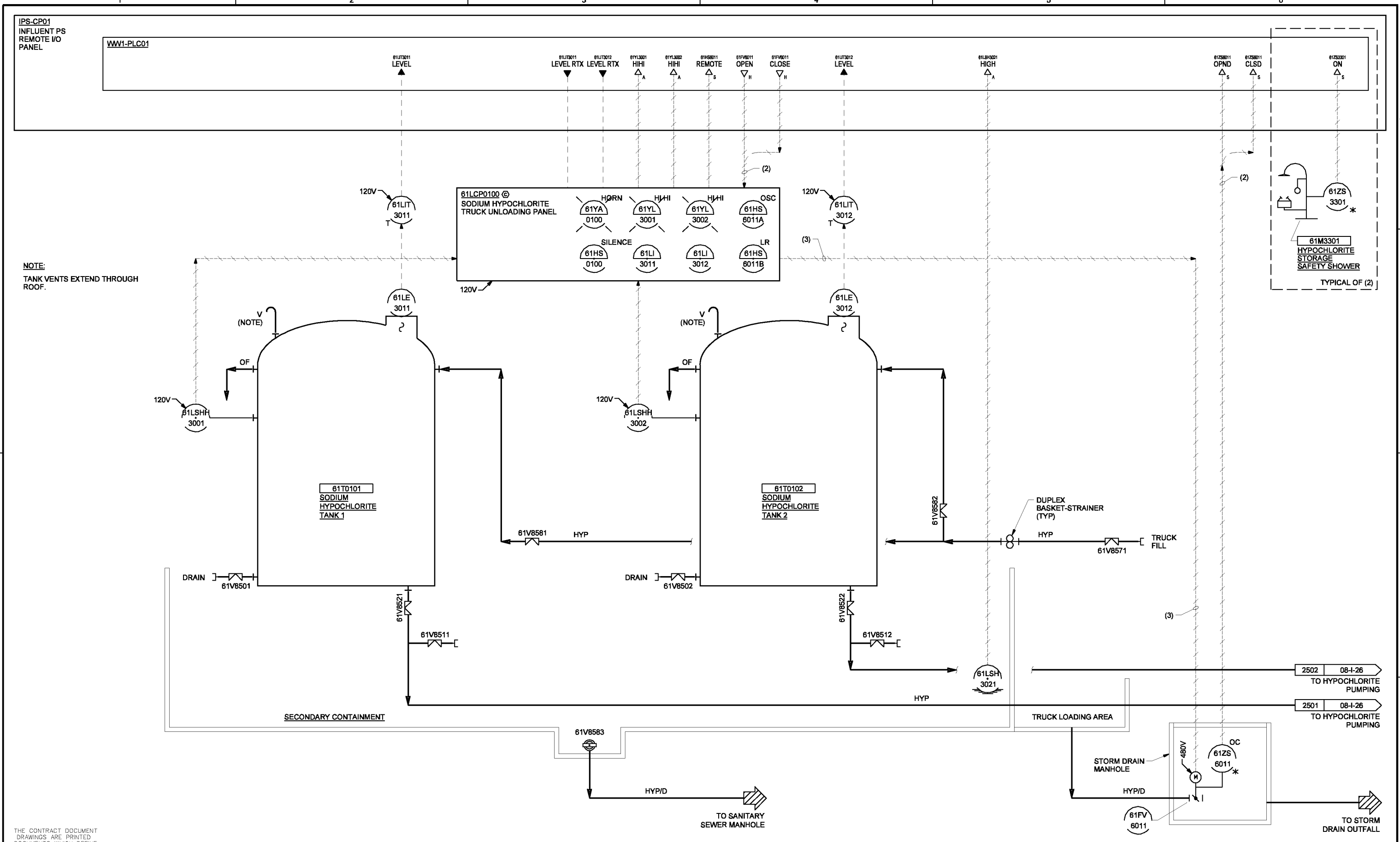


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 EFFLUENT
 PUMP STATION

SHEET	55
DWG	08-1-24A
DATE	AUG 2008
PROJ	326918

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NOTE:
TANK VENTS EXTEND THROUGH ROOF.

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DSGN	CS BURR/BM CASEY								
DR	DS PARKER								
CHK	LL WOOD	01/20/10							
APVD	RS SHANLEY	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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0 1"
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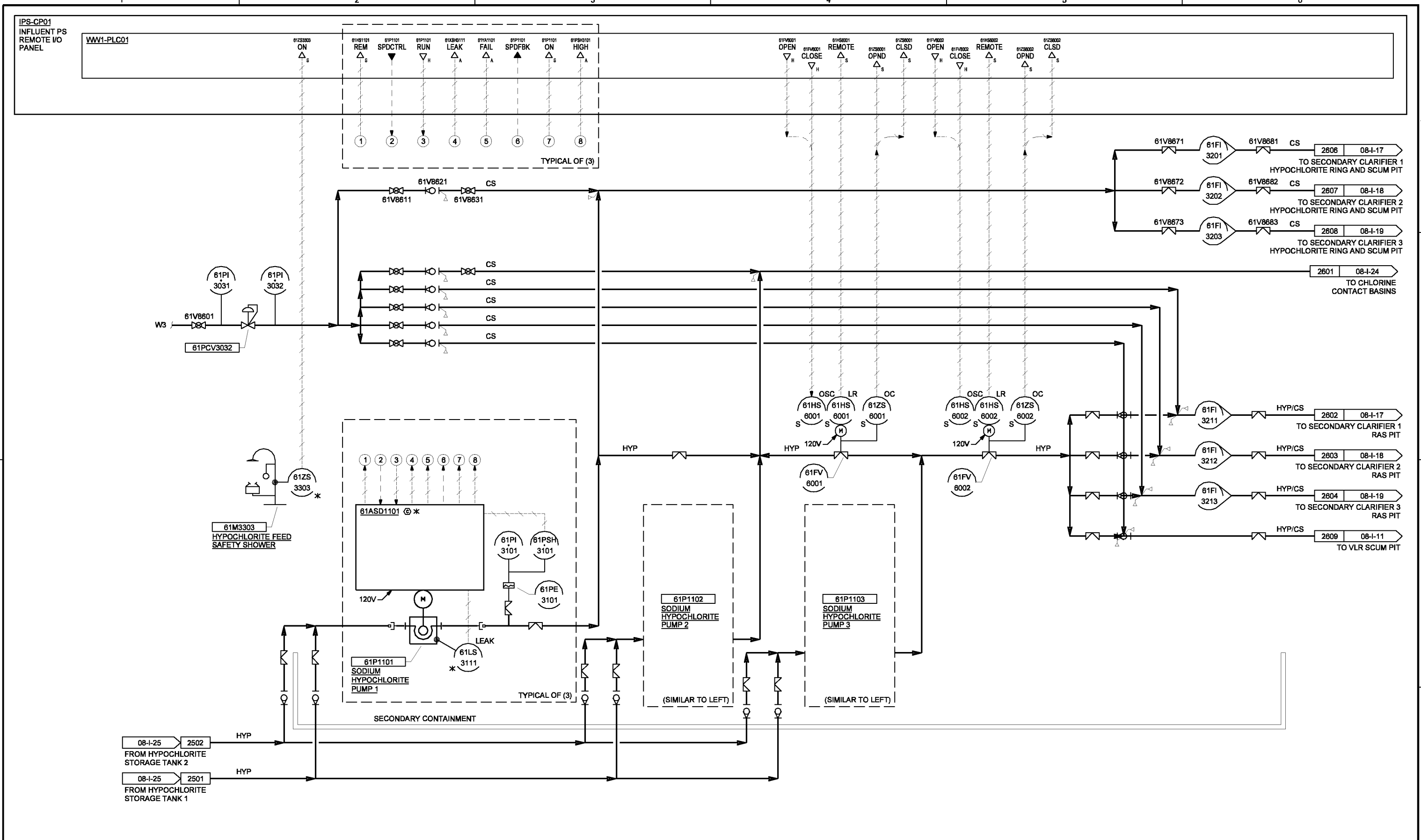


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
SODIUM HYPOCHLORITE STORAGE TANKS

SHEET	56
DWG	08-I-25
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR/BM CASEY						
DR	DS PARKER						
CHK	LL WOOD	01/20/10					
APVD	RS SHANLEY	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
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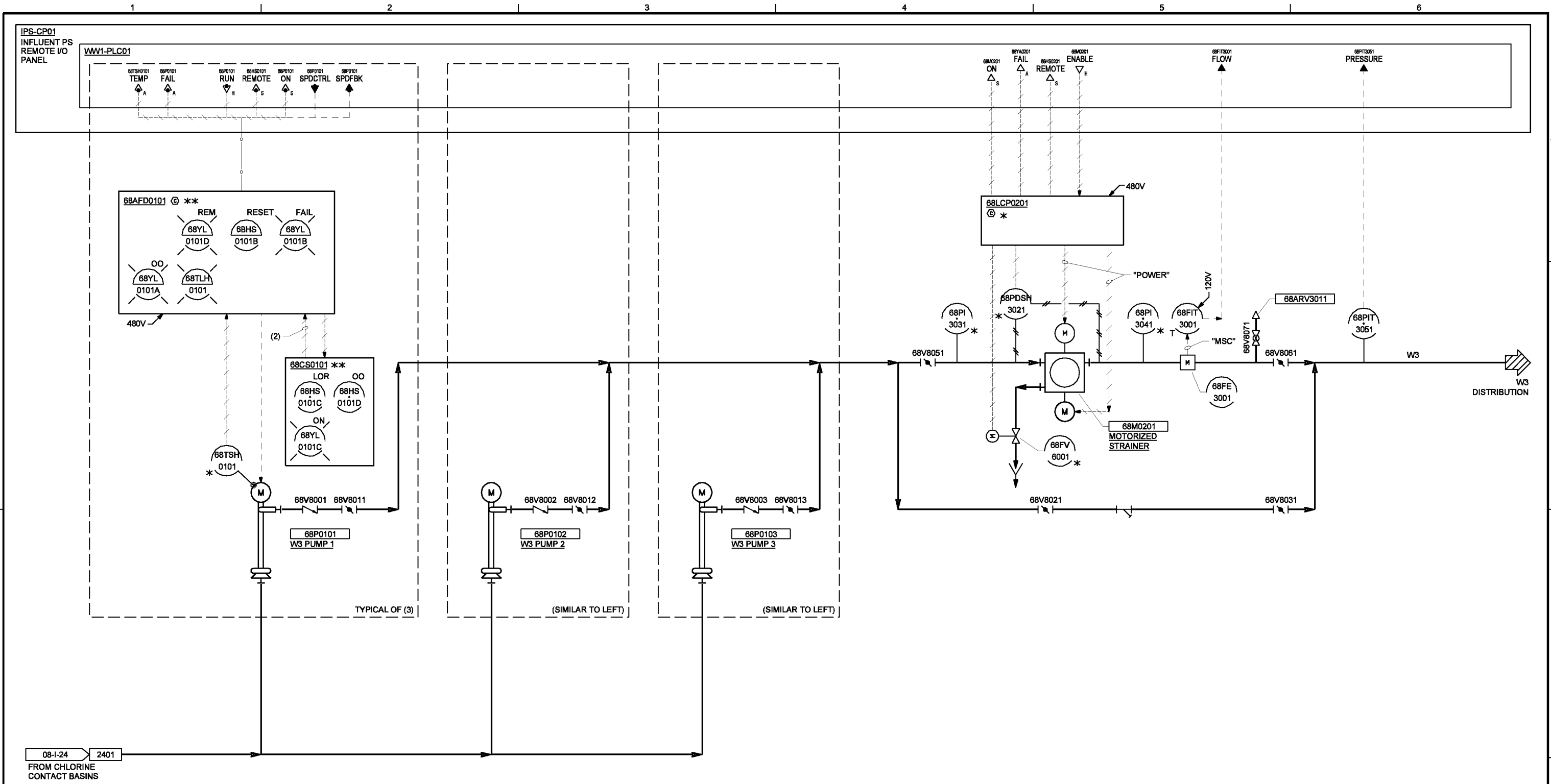


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
SODIUM HYPOCHLORITE PUMPING SYSTEM

SHEET	57
DWG	08-1-26
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR/BM CASEY	NO.	DATE	REVISION	BY	APVD	VERIFY SCALE
DR	DS PARKER						BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	LL WOOD						0 1"
APVD	RS SHANLEY						IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

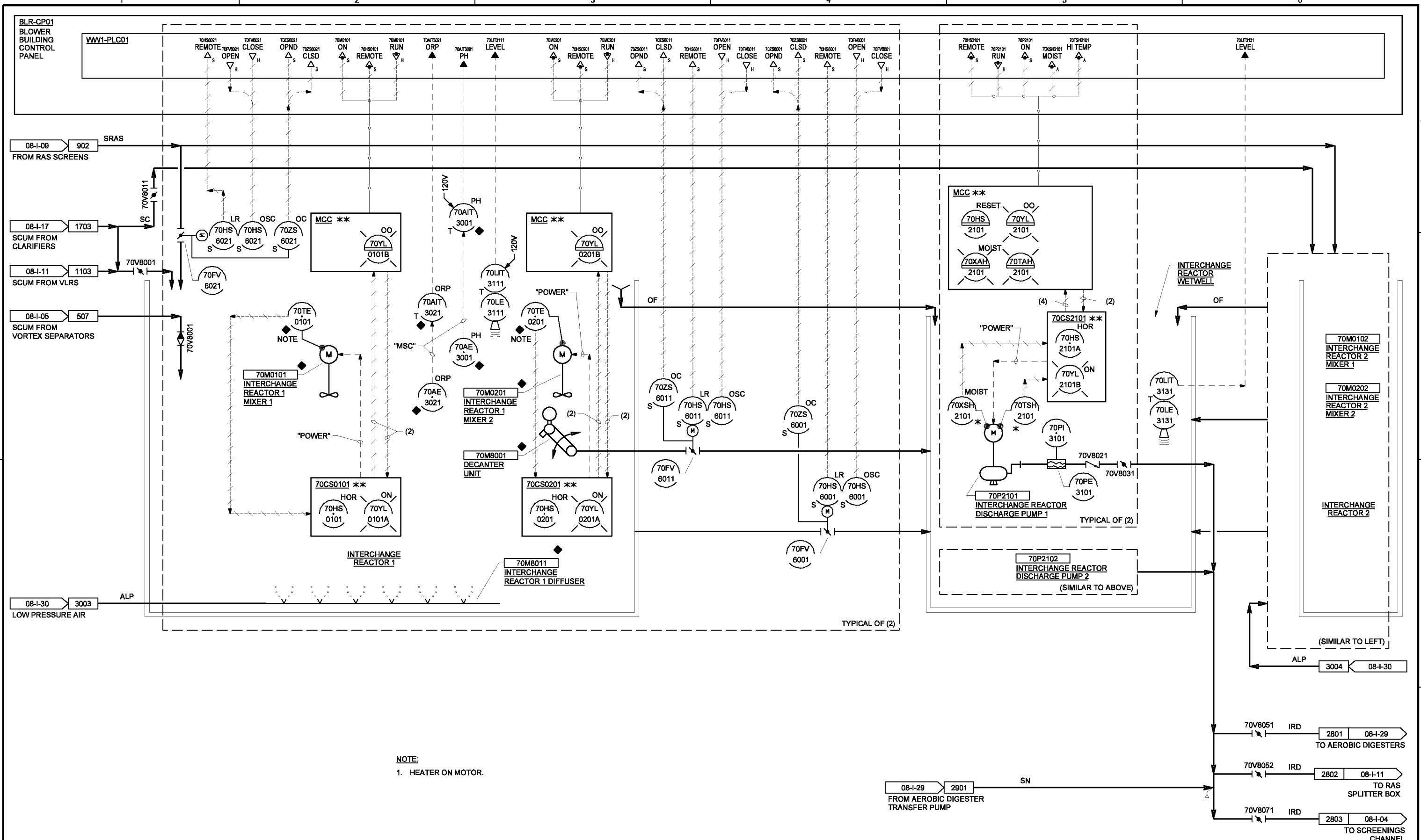


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
W3 PUMPING SYSTEM

SHEET	58
DWG	08-1-27
DATE	MAY 19 2006
PROJ	326918

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NOTE:
1. HEATER ON MOTOR.

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DSGN	BURR/HEMPHILL								
DR	DS PARKER								
CHK	LL WOOD	01/20/10							
APVD	RS SHANLEY	NO.	DATE	REVISION	BY	APVD			

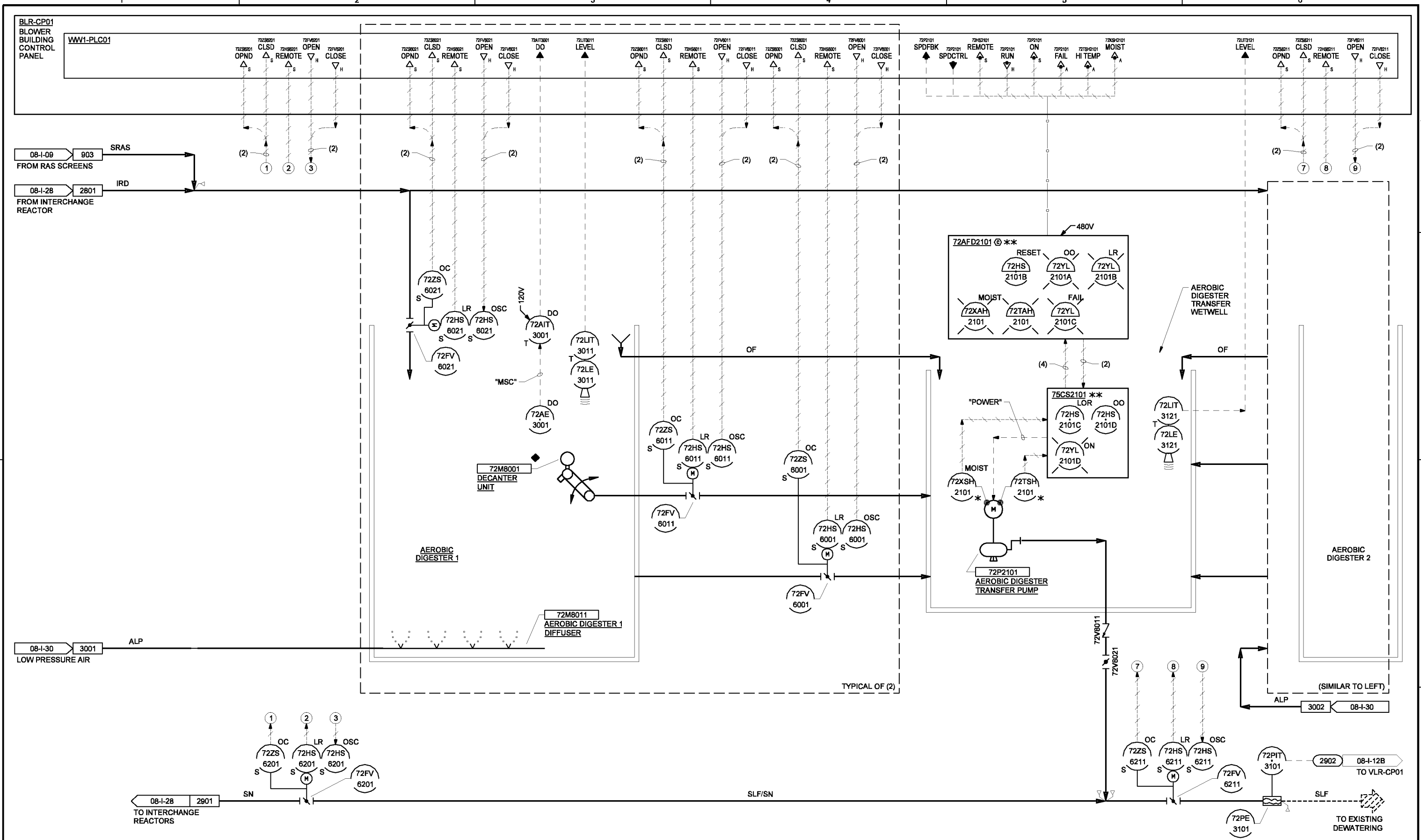


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
INTERCHANGE REACTORS

SHEET	59
DWG	08-I-28
DATE	MAY 19 2006
PROJ	326918

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DSGN	BURR/HEMPHILL								
DR	DS PARKER								
CHK	LL WOOD	01/20/10							
APVD	RS SHANLEY	NO.	DATE	REVISION	BY	APVD			

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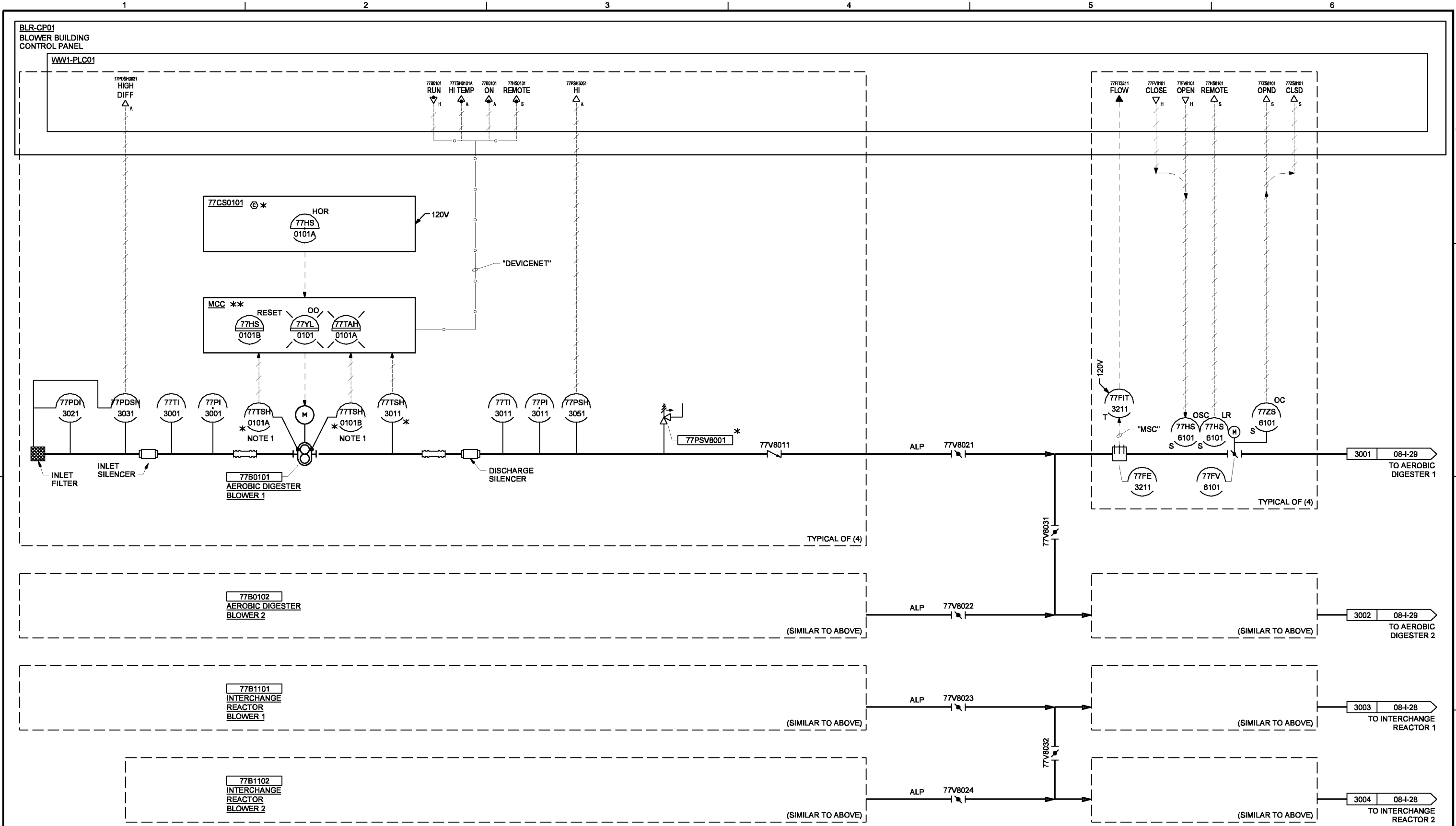


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
AEROBIC DIGESTERS

SHEET	60
DWG	08-I-29
DATE	MAY 19 2006
PROJ	326918

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NOTE:
1. BLOWER HAS TEMPERATURE SWITCHES ON THE BLOWER ENCLOSURE AS WELL AS THE LOWER BEARINGS.

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DSGN	BURR/HEMPHILL						
DR	DS PARKER						
CHK	LL WOOD	01/20/10					
APVD	RS SHANLEY	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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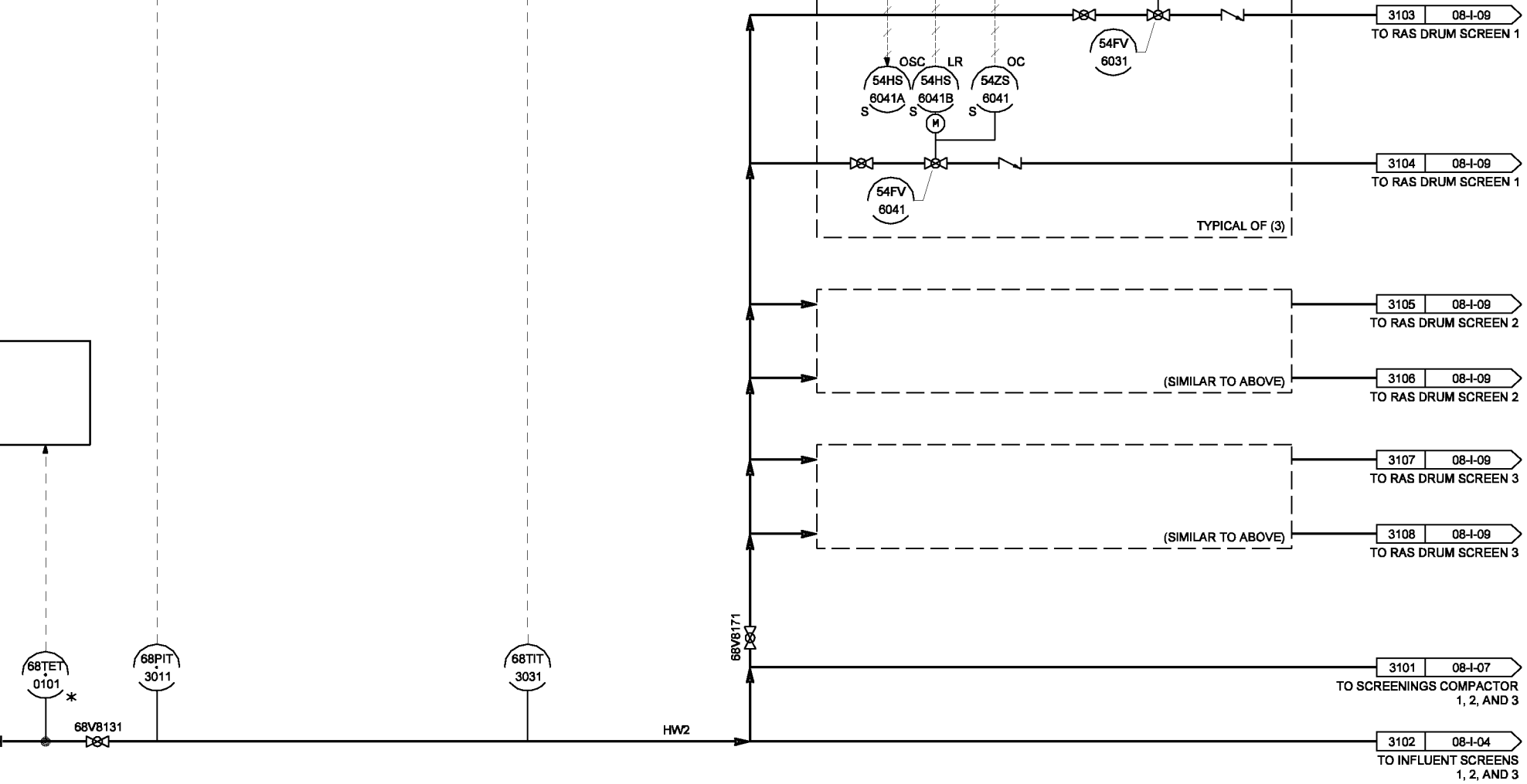
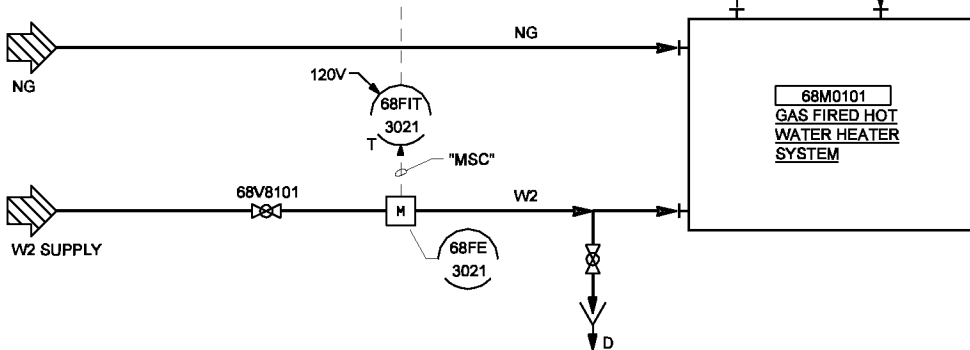
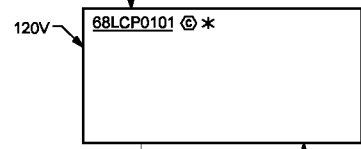
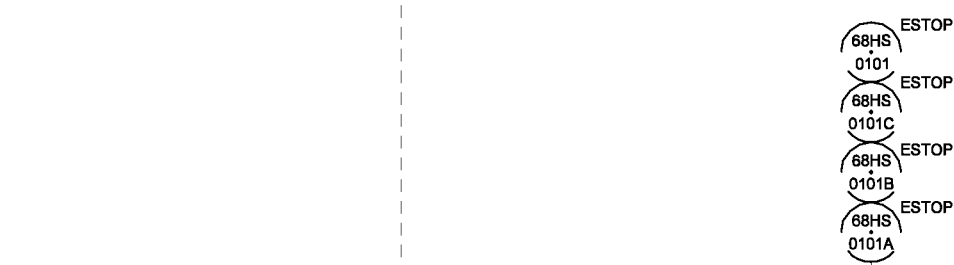
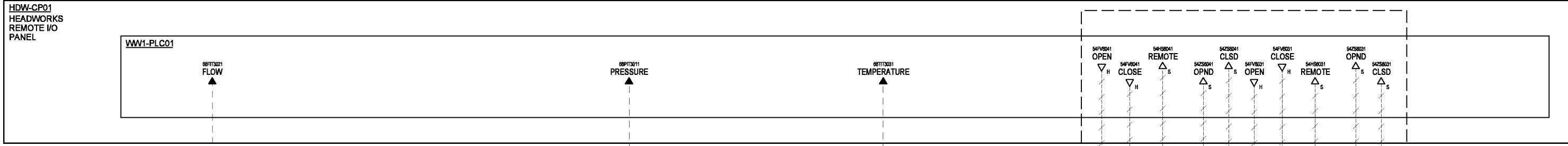


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
INTERCHANGE REACTOR / AEROBIC DIGESTER BLOWER SYSTEM

SHEET	61
DWG	08-I-30
DATE	MAY 19 2006
PROJ	326918

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

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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

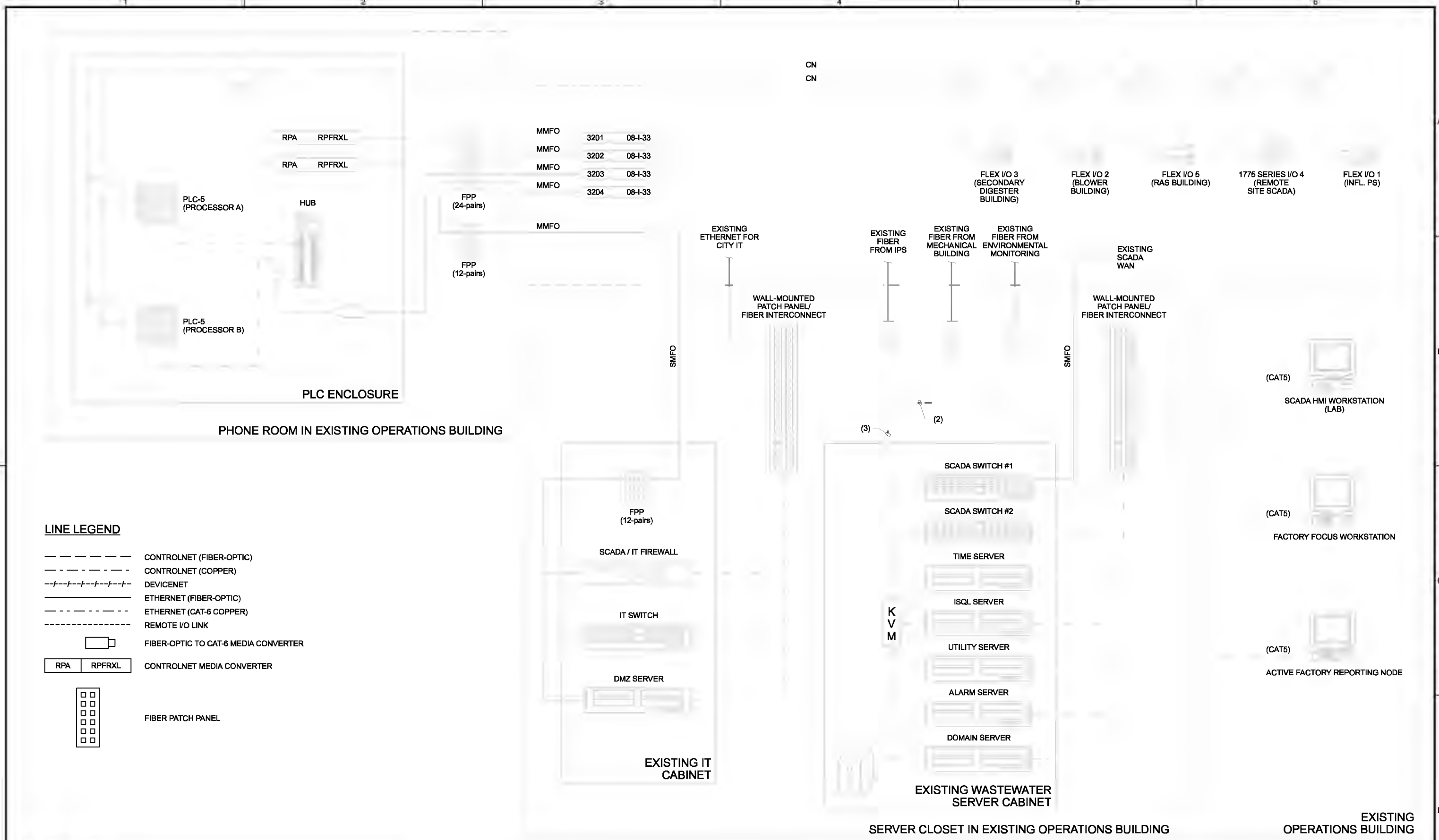


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
P&ID
 HOT WATER SYSTEM

SHEET	62
DWG	08-I-31
DATE	MAY 19 2006
PROJ	326918

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LINE LEGEND

- CONTROLNET (FIBER-OPTIC)
- CONTROLNET (COPPER)
- +--+--+--+ DEVICENET
- ETHERNET (FIBER-OPTIC)
- ETHERNET (CAT-6 COPPER)
- REMOTE I/O LINK
- [Symbol] FIBER-OPTIC TO CAT-6 MEDIA CONVERTER
- [Symbol] CONTROLNET MEDIA CONVERTER
- [Symbol] FIBER PATCH PANEL

DSGN	CS BURR										
DR	DS PARKER										
CHK	LL WOOD	01/20/10									
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
**CONTROL SYSTEM BLOCK DIAGRAM
EXISTING SYSTEM, SHEET 1**

SHEET	63
DWG	08-1-32
DATE	MAY 19 2006
PROJ	326918

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- 08-I-32 (3201) MMFO
- 08-I-32 (3202) MMFO
- 08-I-32 (3203) MMFO
- 08-I-32 (3204) MMFO

CITY IT WORKSTATION

SCADA HMI WORKSTATION
(BIOSOLIDS)

U
P
S

LOCAL
IT
SWITCH

(CAT5)
(CAT5)

LOCAL
SCADA
SWITCH

(CAT5)
(CAT5)

BIOSOLIDS FIBER
CABINET

FPP
(24-pairs)

RPFRXL RPA
RPFRXL RPA

BIOSOLIDS
PLC 520E PROCESSOR
AND REMOTE I/O

U
P
S

BIOSOLIDS
BUILDING MCC

ACTIVE FACTORY
REPORTING NODE
(BIOSOLIDS)

SCADA ALARM WORKSTATION
(BIOSOLIDS)

U
P
S

RIO

RIO

SLC-1

SLC-1

SLC-1

U
P
S

U
P
S

WWP-BDB1-POL-0001

WWP-BDB1-LCP-0001

WWP-BDB1-LCP-0002

VFD VFD VFD VFD VFD VFD VFD VFD
BFP 1 DRIVE POLY PUMP 1 SLUDGE FEED PUMP 1 CAKE PUMP 1 BFP 2 DRIVE POLY PUMP 2 SLUDGE FEED PUMP 2 CAKE PUMP 2

BIOSOLIDS BUILDING

THE CONTRACT DOCUMENT
DRAWINGS AND INSTRUMENTS
HEREIN ARE HEREBY
ACCEPTED AND AGREED TO
BY THE CITY OF ALBANY
AS SHOWN ON SHEET 1
OF THIS DRAWING SET.
DATE: 01/20/10
BY: [Signature]

DSGN	CS BURR	NO.	DATE	REVISION	BY	APVD	PMH	CSB	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								

(FOR LIMITATIONS SEE RECORD
DRAWING NOTE ON SHEET 1)



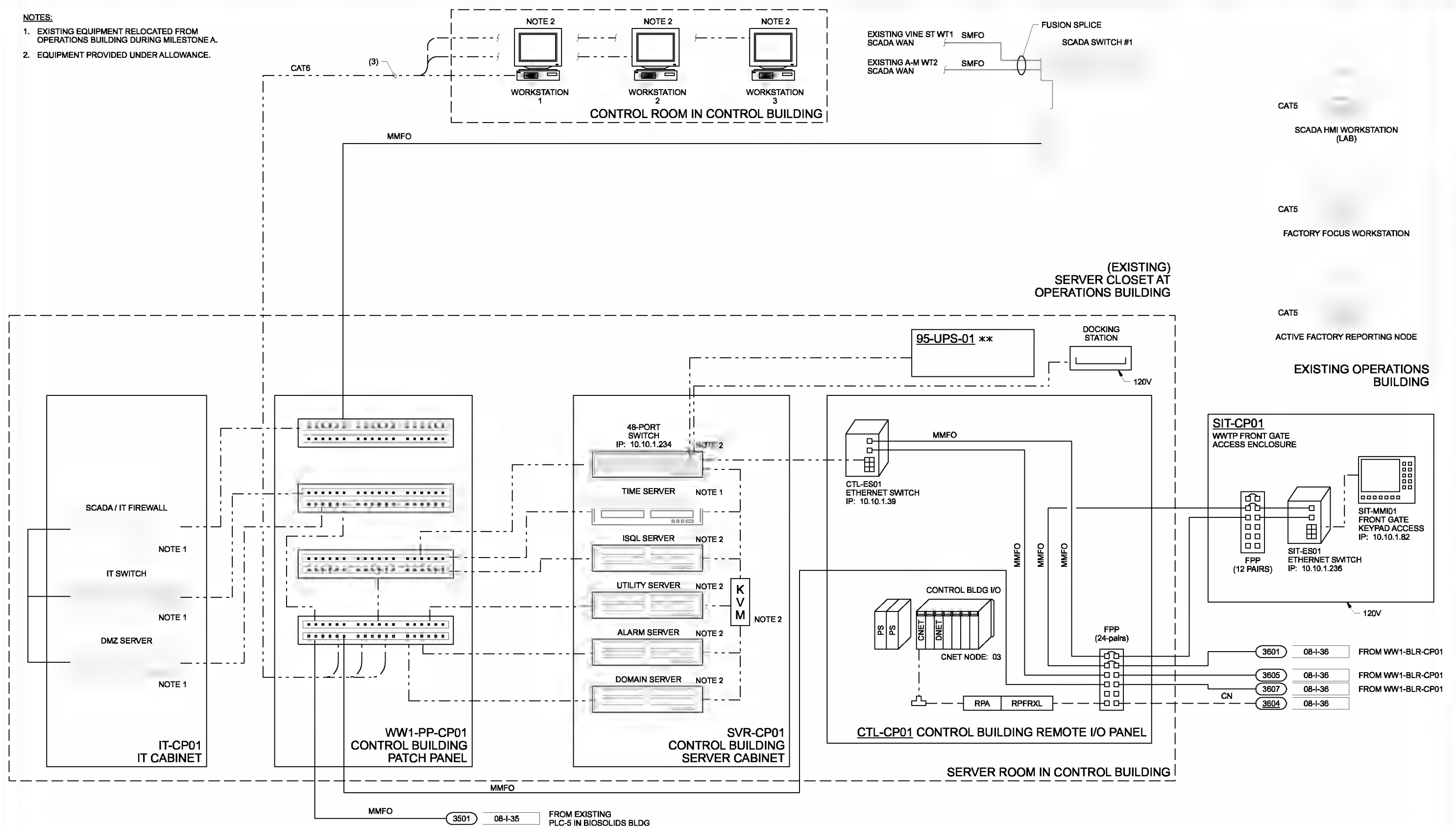
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
**CONTROL SYSTEM BLOCK DIAGRAM
EXISTING SYSTEM, SHEET 2**

SHEET	64
DWG	08-I-33
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
- EXISTING EQUIPMENT RELOCATED FROM OPERATIONS BUILDING DURING MILESTONE A.
 - EQUIPMENT PROVIDED UNDER ALLOWANCE.



DSGN	CS BURR	NO.	DATE	REVISION	BY	APVD	VERIFICATION	SCALE
DR	DS PARKER							
CHK	LL WOOD							
APVD	CW MASSIE							
		01/20/10			PMH	CSB		



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

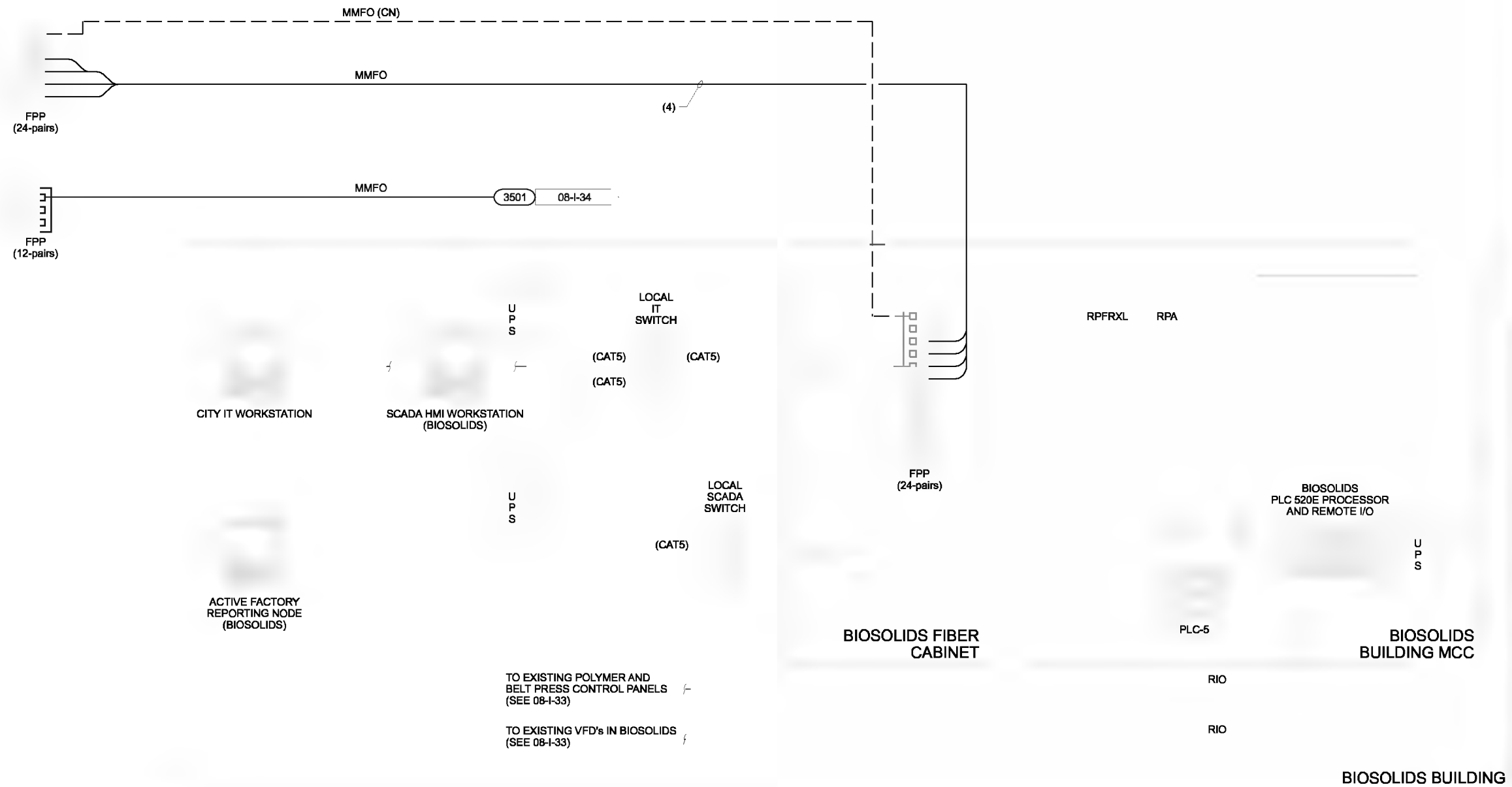
INSTRUMENTATION AND CONTROL
**CONTROL SYSTEM BLOCK DIAGRAM
MODIFICATIONS, SHEET 1**

SHEET	65
DWG	08-I-34
DATE	MAY 19 2006
PROJ	326918

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NOTES:

1. FLEX I/O TO BE DE-COMMISSIONED AT CONCLUSION OF MILESTONE B. ASSOCIATED PROCESSES WILL BE REINTEGRATED INTO THE SCADA SYSTEM VIA NEW REMOTE I/O MODULES IN THE CONTROLLOGIX PROCESSOR AT THE AERATION BLOWER BUILDING.
2. RECONFIGURE FLEX I/O NETWORK AS SHOWN TO ACCOMMODATE MILESTONE A AND MILESTONE B.
3. EXISTING REMOTE I/O CONNECTION.



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DSGN	CS BURR	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.
DR	DS PARKER						
CHK	LL WOOD						
APVD	CW MASSIE						

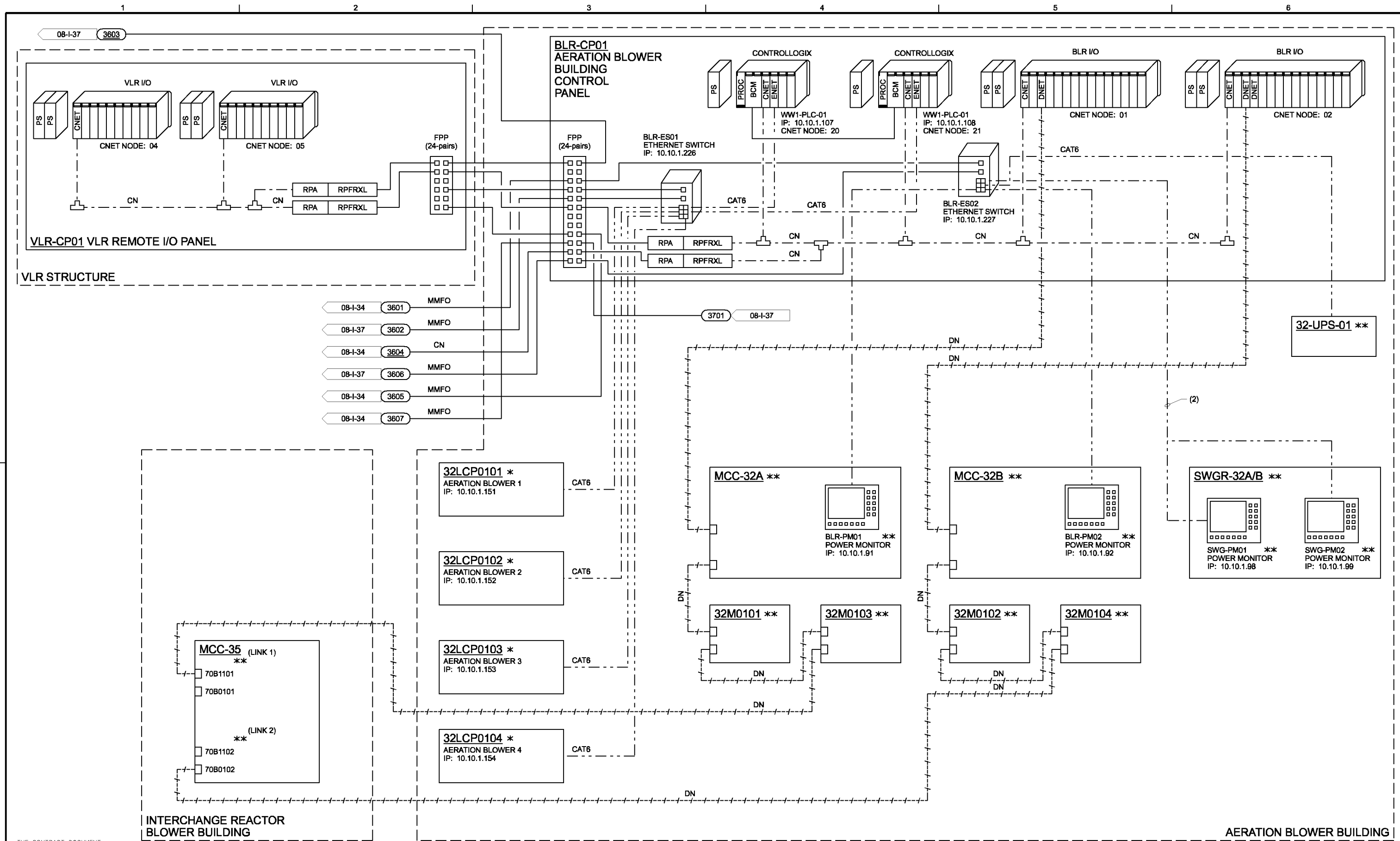
(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
CONTROL SYSTEM BLOCK DIAGRAM MODIFICATIONS, SHEET 2

SHEET	66
DWG	08-I-35
DATE	MAY 19 2006
PROJ	326918



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

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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0 1"
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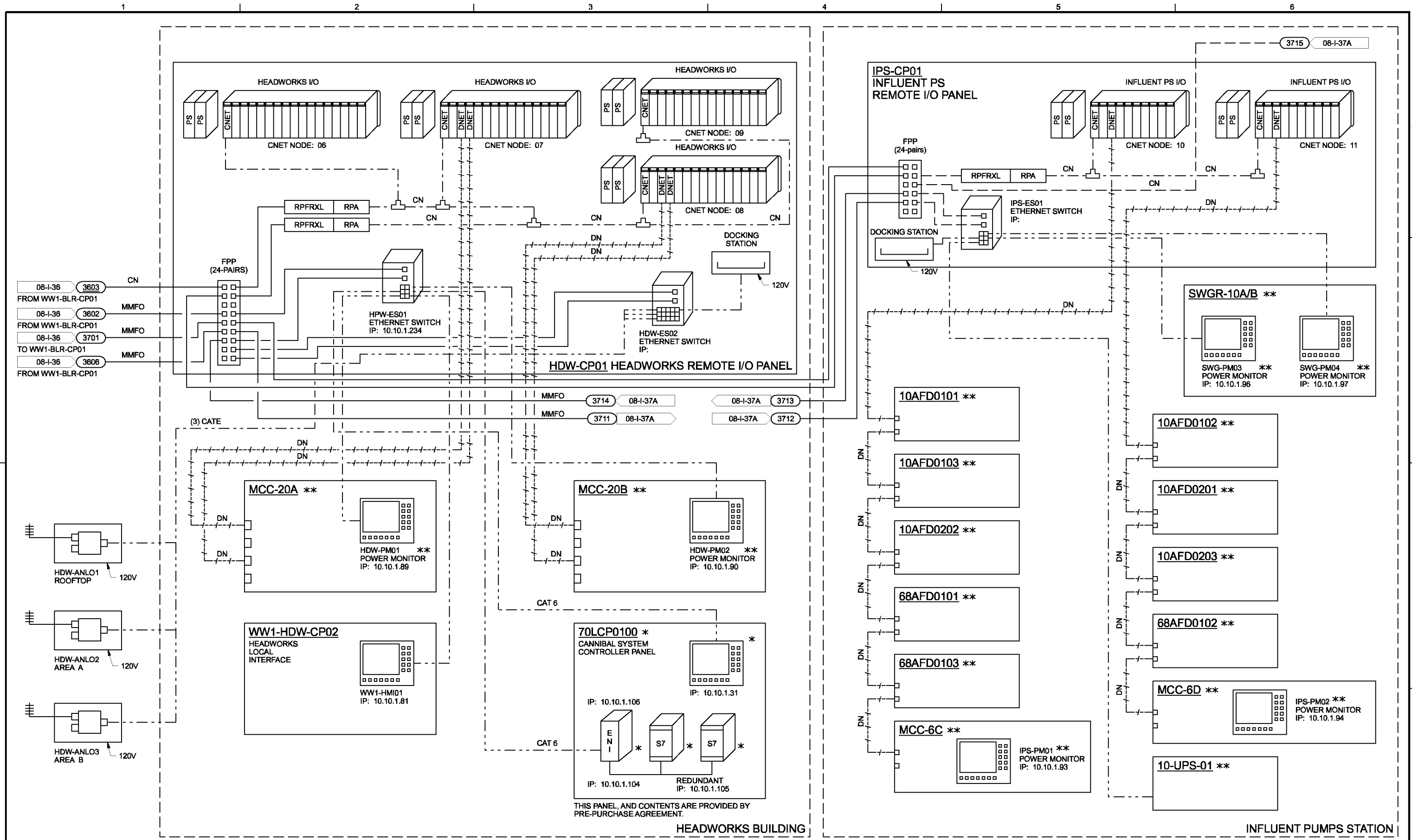


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
**CONTROL SYSTEM BLOCK DIAGRAM
MODIFICATIONS, SHEET 3**

SHEET	67
DWG	08-I-36
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR				
DR	DS PARKER				
CHK	LL WOOD	01/20/10			
APVD	CW MASSIE	NO.	DATE	REVISION	BY

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
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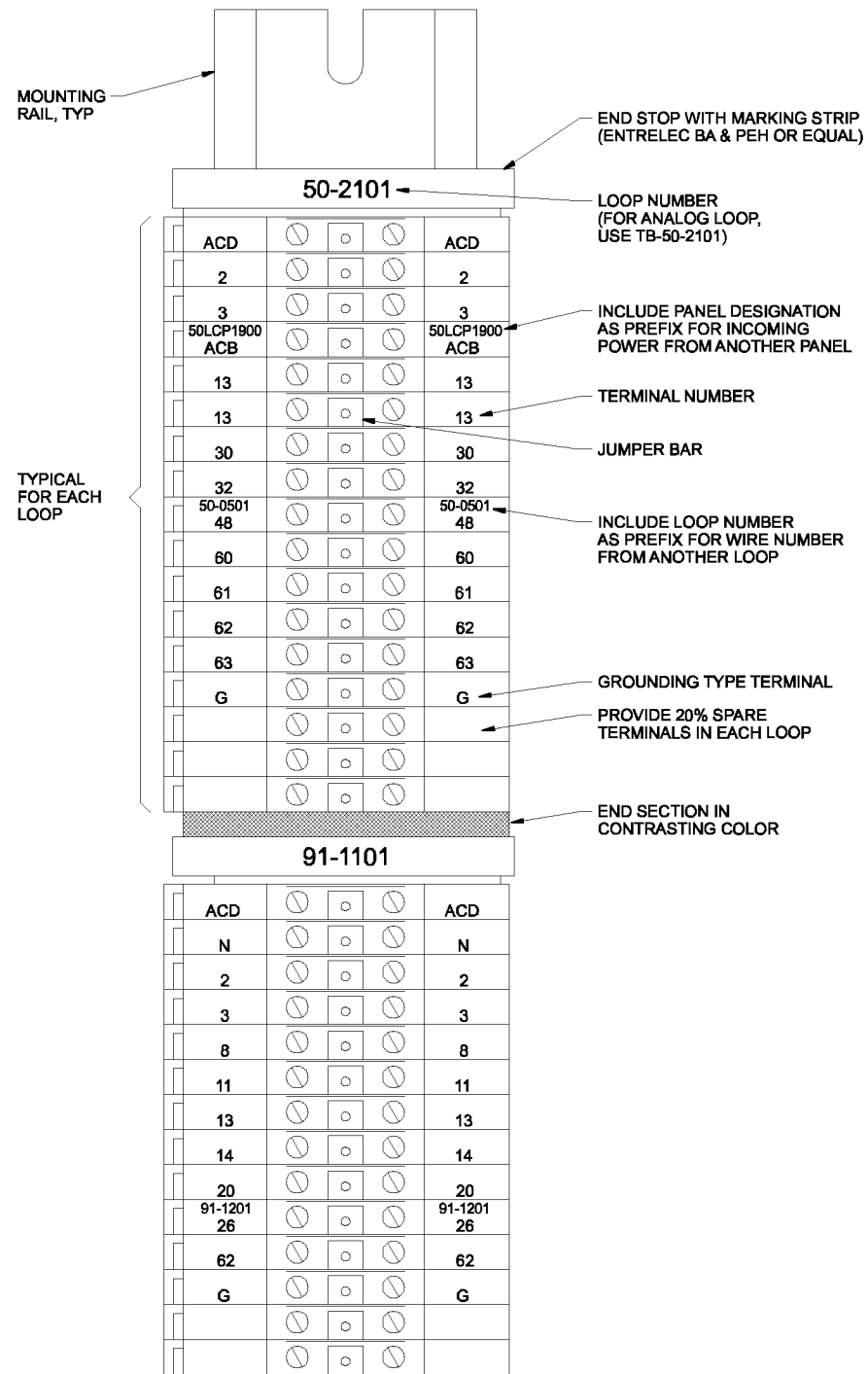


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
**CONTROL SYSTEM BLOCK DIAGRAM
 MODIFICATIONS, SHEET 4**

SHEET	68
DWG	08-I-37
DATE	MAY 19 2006
PROJ	326918

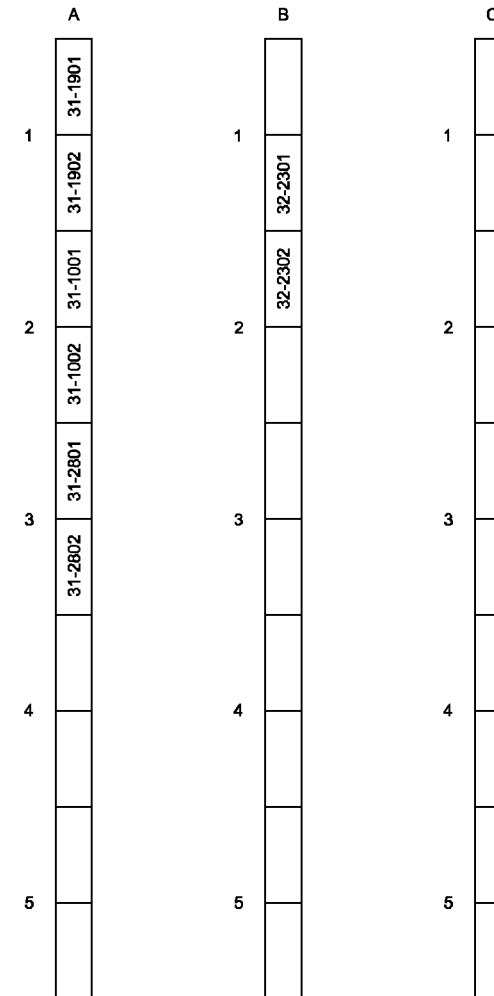
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TYPICAL TERMINAL BLOCK MARKING

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

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DSGN	CS BURR	NO.	DATE	REVISION	BY	APVD
DR	GJ LOVE					
CHK	LL WOOD					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
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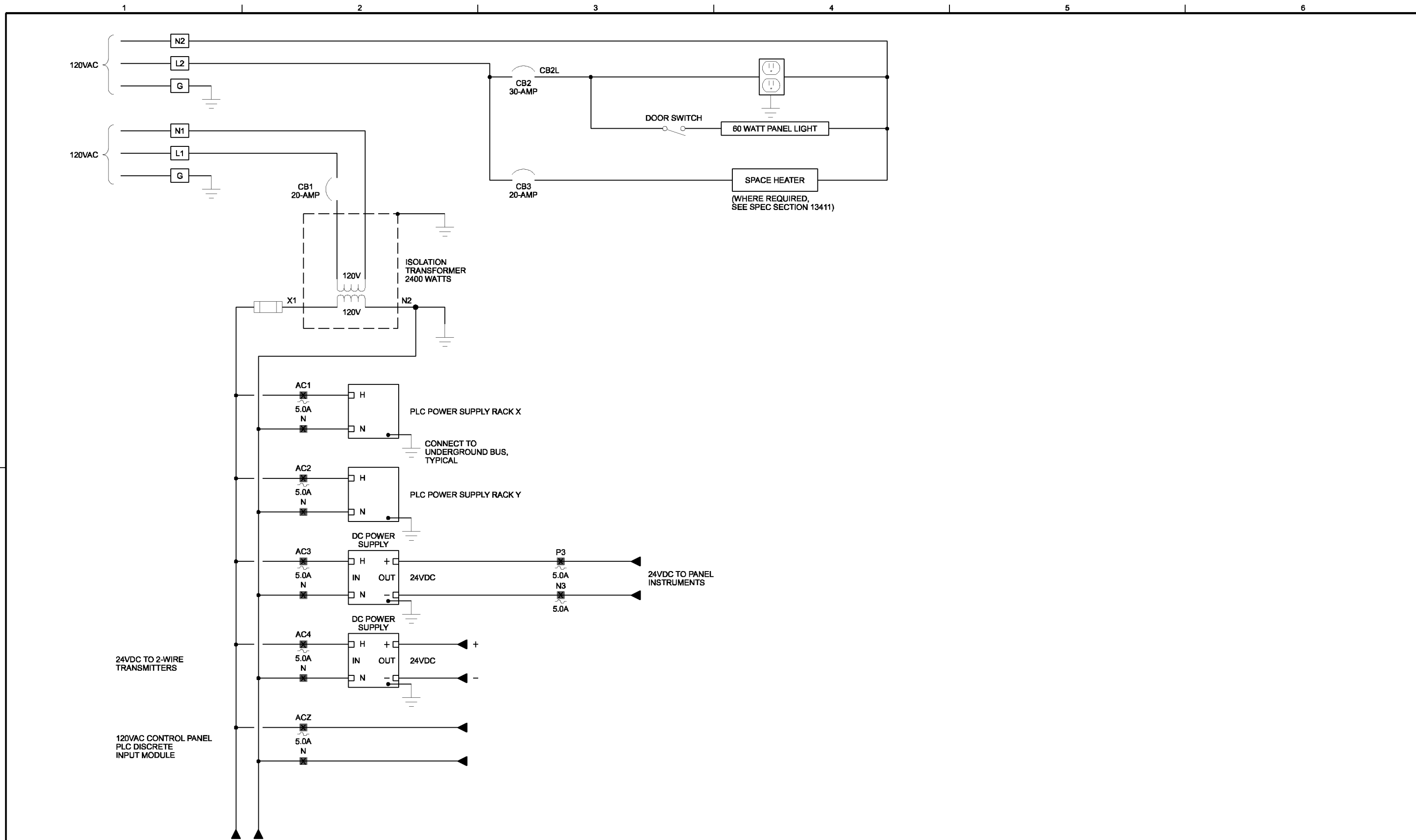


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
TYPICAL TERMINAL BLOCK
MARKING AND LAYOUT

SHEET	69
DWG	08-1-38
DATE	MAY 19 2006
PROJ	326918

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DSGN	CS BURR					
DR	GJ LOVE					
CHK	LL WOOD	01/20/10				
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

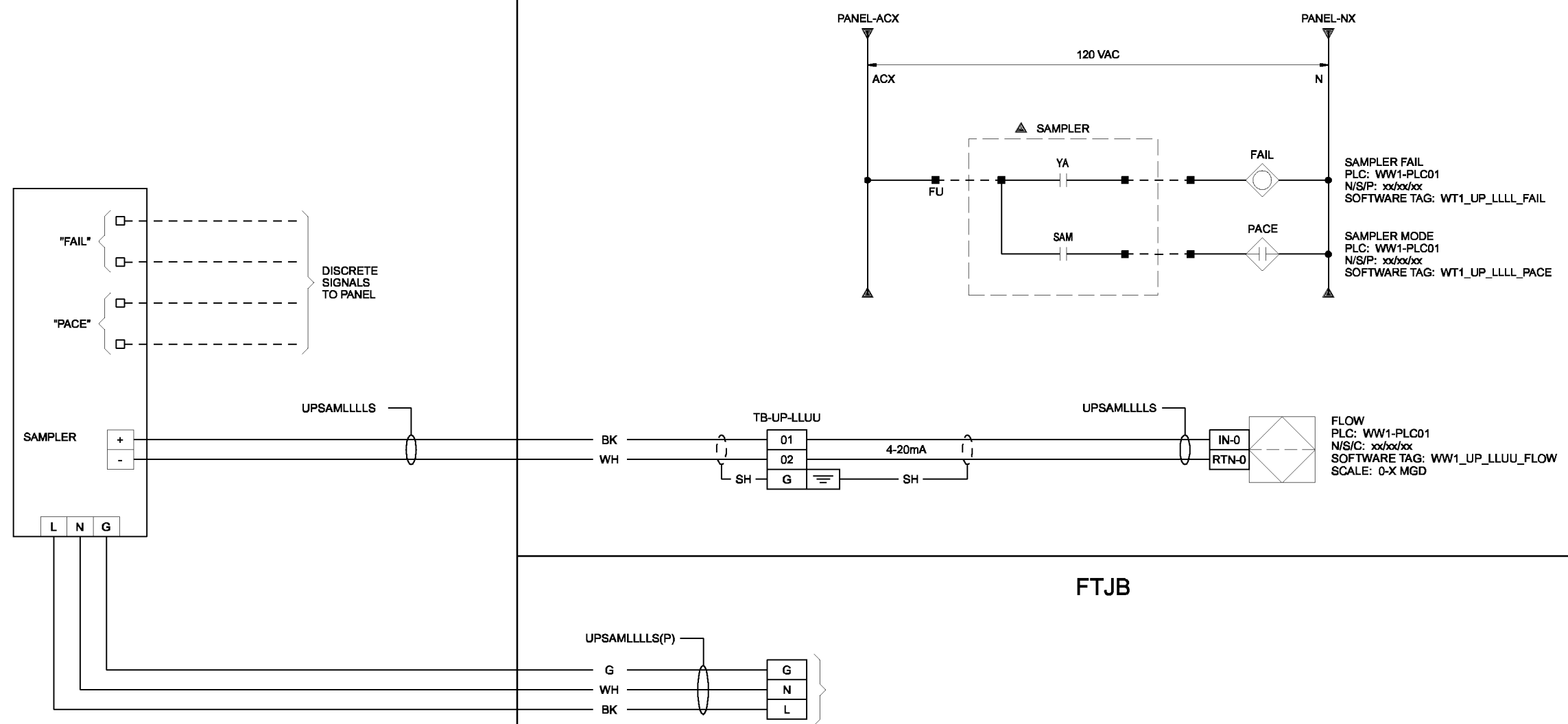
INSTRUMENTATION AND CONTROL
 WIRING DIAGRAM
 TYPICAL PANEL POWER
 DISTRIBUTION

SHEET	70
DWG	08-I-39
DATE	MAY 19 2006
PROJ	326918

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FIELD

PANEL



SAMPLER FAIL
 PLC: WW1-PLC01
 N/S/P: xx/xx/xx
 SOFTWARE TAG: WT1_UP_LLLL_FAIL

SAMPLER MODE
 PLC: WW1-PLC01
 N/S/P: xx/xx/xx
 SOFTWARE TAG: WT1_UP_LLLL_PACE

FLOW
 PLC: WW1-PLC01
 N/S/C: xx/xx/xx
 SOFTWARE TAG: WW1_UP_LL UU_FLOW
 SCALE: 0-X MGD

LOOP	LOOP DESCRIPTION	PANEL	SIT	EXCEPTIONS
20-0001	RAW SEWAGE COMPOSITE SAMPLER	HDW-CP01	WW1	
07-0121	LAB BOTTLE SAMPLER	IPS-CP01	WW1	FAIL ALARM ONLY

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

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

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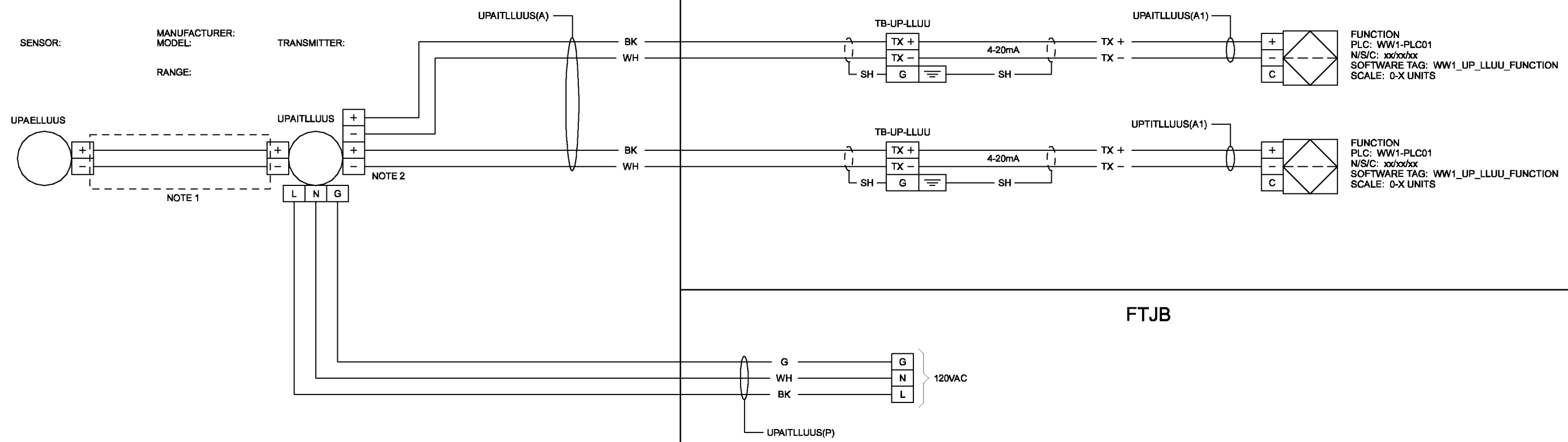
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 WIRING DIAGRAM
 SAMPLER

SHEET	71
DWG	08-I-40
DATE	MAY 19 2006
PROJ	326918

FIELD

PANEL



LOOP	LOOP DESCRIPTION	FUNCTION	PANEL	EXCEPTIONS
30-4111	VLR 1B DISSOLVED OXYGEN	DO	BLR-CP01	
30-4112	VLR 2B DISSOLVED OXYGEN	DO	BLR-CP01	
30-4121	VLR 1C DISSOLVED OXYGEN	DO	BLR-CP01	
30-4122	VLR 2C DISSOLVED OXYGEN	DO	BLR-CP01	
30-4131	VLR 1D DISSOLVED OXYGEN	DO	BLR-CP01	
30-4132	VLR 2D DISSOLVED OXYGEN	DO	BLR-CP01	
60-3001	CHLORINE CONTACT BASIN 1 CHLORINE RESIDUAL	CL2	IPS-CP01	
60-3002	CHLORINE CONTACT BASIN 2 CHLORINE RESIDUAL	CL2	IPS-CP01	
70-3001	INTERCHANGE REACTOR 1 pH	pH	BLR-CP01	
70-3002	INTERCHANGE REACTOR 2 pH	pH	BLR-CP01	
75-3001	AEROBIC DIGESTER 1 DISSOLVED OXYGEN	DO	BLR-CP01	
75-3002	AEROBIC DIGESTER 2 DISSOLVED OXYGEN	DO	BLR-CP01	
07-3001	FLOW CONTROL STRUCTURE CHLORINE	CL2	IPS-CP01	
07-3011	FLOW CONTROL STRUCTURE PH/TEMPERATURE	pH/TEMP	IPS-CP01	TEMPERATURE
07-3021	FLOW CONTROL STRUCTURE CONDUCTIVITY	COND	IPS-CP01	
55-4511	RAS SPLITTER BOX MLSS	MLSS	VLR-CP01	
30-4411	VLR TRAIN 1 ORP	ORP	BLR-CP01	
30-4412	VLR TRAIN 2 ORP	ORP	BLR-CP01	
30-4511	VLR TRAIN 1 MLSS	MLSS	BLR-CP01	
30-4512	VLR TRAIN 2 MLSS	MLSS	BLR-CP01	
70-3111	INTERCHANGE REACTOR 1 ORP	ORP	BLR-CP01	
70-3112	INTERCHANGE REACTOR 2 ORP	ORP	BLR-CP01	

- NOTES:
1. WIRE INTERFACE BETWEEN TRANSMITTER AND ELEMENT IS BASED ON A NAMED MANUFACTURER MODEL. INTERFACE WIRING MAY VARY DEPENDING ON MANUFACTURED PRODUCT.
 2. MULTIPLE OUTPUTS ARE AVAILABLE ON SPECIFIC INSTRUMENTS. REFER TO COMPONENT SPECIFICATIONS, AND DRAWINGS, AND NOTES EXCEPTIONS.

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DSGN	CS BURR	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.
DR	GJ LOVE						
CHK	LL WOOD						
APVD	CW MASSIE						

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

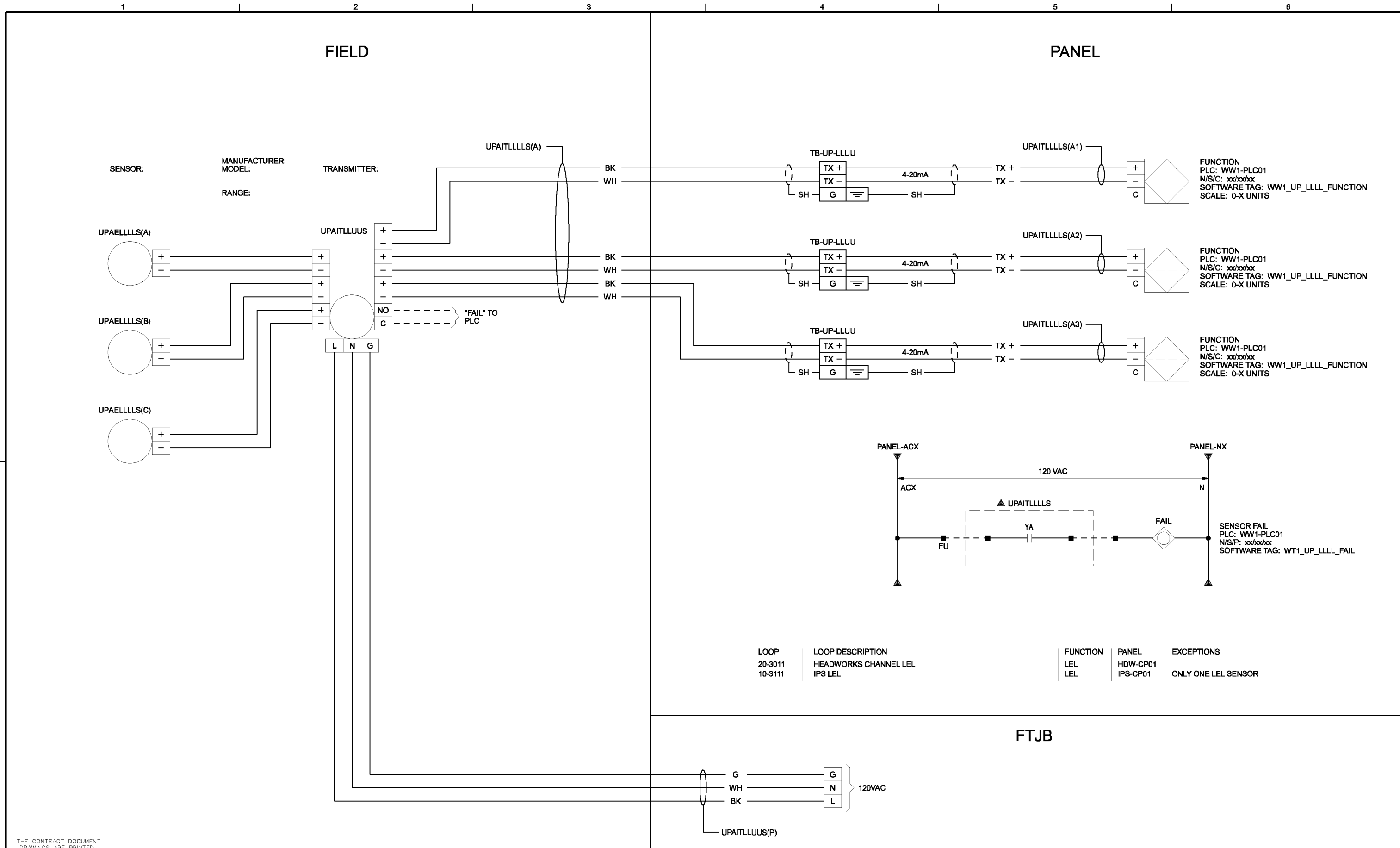


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 WIRING DIAGRAM
 ANALYZER TYPICAL
 ANALOG LOOP

SHEET	72
DWG	08-1-41
DATE	MAY 19 2006
PROJ	326918

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FUNCTION
 PLC: WW1-PLC01
 N/S/C: xx/xx/xx
 SOFTWARE TAG: WW1_UP_L111_FUNCTION
 SCALE: 0-X UNITS

FUNCTION
 PLC: WW1-PLC01
 N/S/C: xx/xx/xx
 SOFTWARE TAG: WW1_UP_L111_FUNCTION
 SCALE: 0-X UNITS

FUNCTION
 PLC: WW1-PLC01
 N/S/C: xx/xx/xx
 SOFTWARE TAG: WW1_UP_L111_FUNCTION
 SCALE: 0-X UNITS

SENSOR FAIL
 PLC: WW1-PLC01
 N/S/P: xx/xx/xx
 SOFTWARE TAG: WT1_UP_L111_FAIL

LOOP	LOOP DESCRIPTION	FUNCTION	PANEL	EXCEPTIONS
20-3011	HEADWORKS CHANNEL LEL	LEL	HDW-CP01	
10-3111	IPS LEL	LEL	IPS-CP01	ONLY ONE LEL SENSOR

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

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

VERIFY SCALE
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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

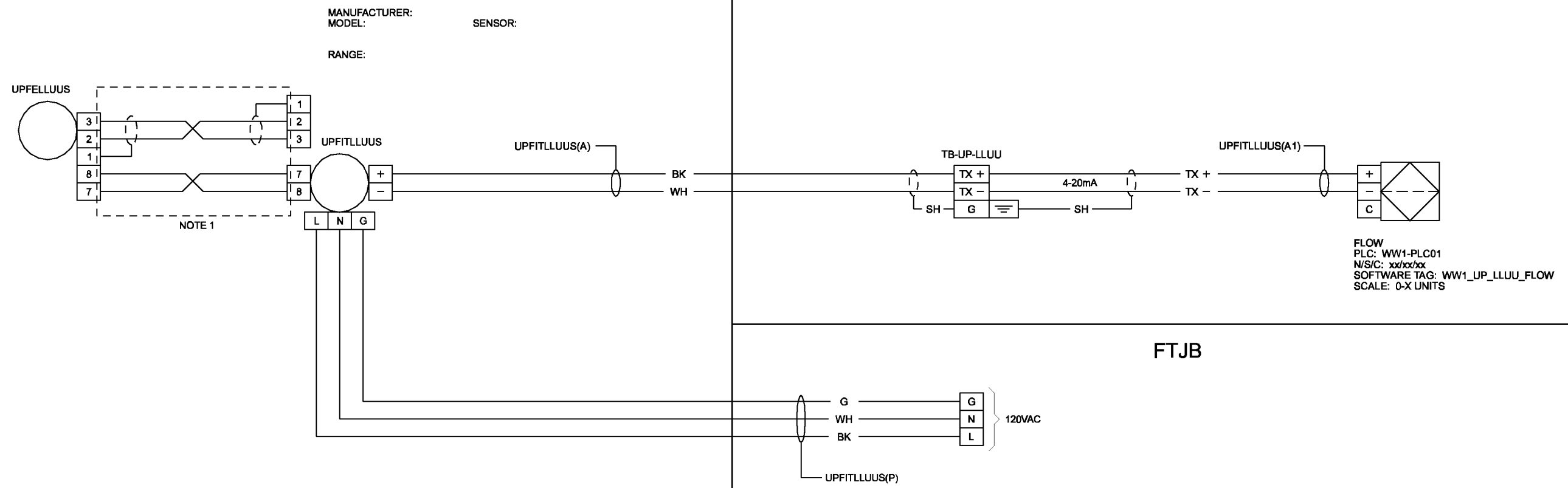
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
 COMBUSTIBLE GAS AND FIRE ALARM PANEL
 TYPICAL WIRING

SHEET	73
DWG	08-1-42
DATE	MAY 19 2006
PROJ	326918

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FIELD

PANEL



FLOW
 PLC: WW1-PLC01
 N/S/C: xx/xx/xx
 SOFTWARE TAG: WW1_UP_LL UU_FLOW
 SCALE: 0-X UNITS

LOOP	LOOP DESCRIPTION	PANEL	SIT
10-3011	WET PIT UNFLUENT FLOW	HDW-CP01	WW1
10-3301	DRY PIT INFLUENT FLOW	HDW-CP01	WW1
50-3011	SECONDARY CLARIFIER 1 RAS FLOW	HDW-CP01	WW1
50-3012	SECONDARY CLARIFIER 2 RAS FLOW	HDW-CP01	WW1
50-3013	SECONDARY CLARIFIER 3 RAS FLOW	HDW-CP01	WW1
54-3001	RAS SCREEN 1 INLET FLOW	HDW-CP01	WW1
54-3002	RAS SCREEN 2 INLET FLOW	HDW-CP01	WW1
54-3003	RAS SCREEN 3 INLET FLOW	HDW-CP01	WW1
54-3101	SRAS FLOW TO INTERCHANGE REACTORS	HDW-CP01	WW1
54-3102	SRAS FLOW TO AEROBIC DIGESTERS	HDW-CP01	WW1
60-3021	COMBINED SECONDARY EFF. FLOW	IPS-CP01	WW1
67-3021	HOT WATER SUPPLY FLOW	HDW-CP01	WW1
68-3001	W3 DISCHARGE FLOW	IPS-CP01	WW1
70-3141	INTERCHANGE REACTOR DISCHARGE FLOW	BLR-CP01	WW1
68-3021	HOT WATER HEATER W3 SUPPLY FLOW	HDW-CP01	WW1

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

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 19, 2006 BY CHRISTOPHER S. BURR, STATE OF OREGON, P.E. NO. 49633PE

DSGN	CS BURR	NO.	DATE	REVISION	BY	APVD
DR	GJ LOVE					
CHK	LL WOOD					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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



CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

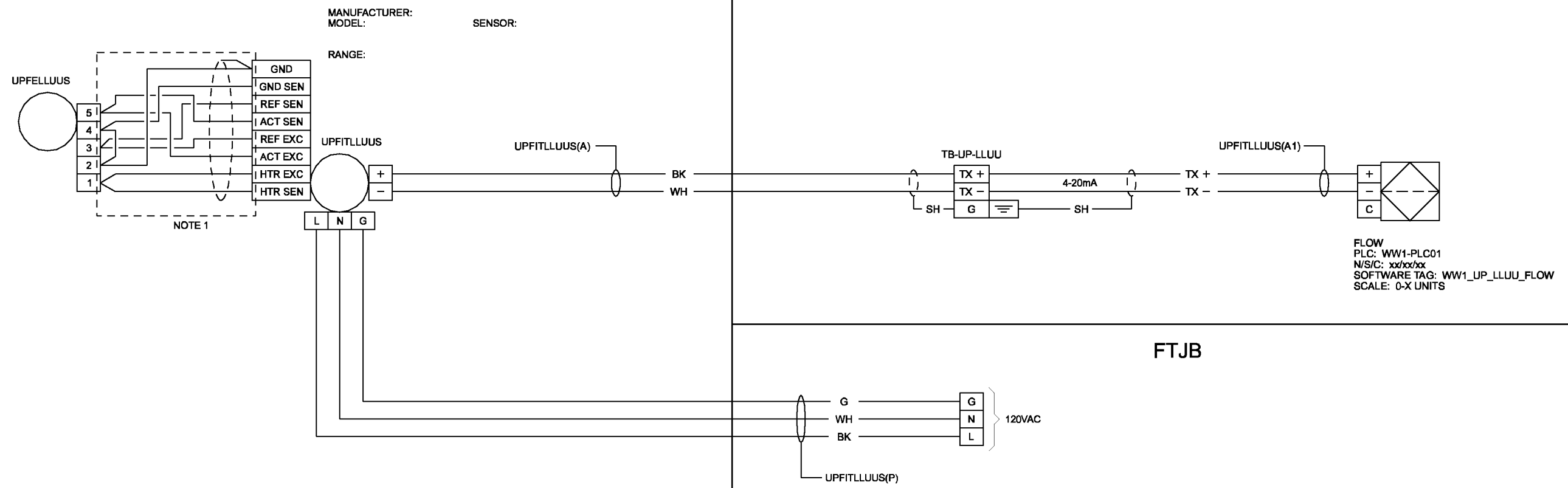
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
 FLOW (ELECTROMAGNETIC) TYPICAL
 ANALOG LOOP

SHEET	74
DWG	08-1-43
DATE	MAY 19 2006
PROJ	326918

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FIELD

PANEL



FLOW
 PLC: WW1-PLC01
 N/S/C: xx/xx/xx
 SOFTWARE TAG: WW1_UP_LL UU_FLOW
 SCALE: 0-X UNITS

LOOP	LOOP DESCRIPTION	PANEL	SIT
30-4011	VLR 1B AERATION FLOW	BLR-CP01	WW1
30-4012	VLR 2B AERATION FLOW	BLR-CP01	WW1
30-4021	VLR 1C AERATION FLOW	BLR-CP01	WW1
30-4022	VLR 2C AERATION FLOW	BLR-CP01	WW1
30-4031	VLR 1D AERATION FLOW	BLR-CP01	WW1
30-4032	VLR 2D AERATION FLOW	BLR-CP01	WW1
77-3211	AIR FLOW TO AEROBIC DIGESTER 1	BLR-CP01	WW1
77-3212	AIR FLOW TO AEROBIC DIGESTER 2	BLR-CP01	WW1
77-3213	AIR FLOW TO INTERCHANGE REACTOR 1	BLR-CP01	WW1
77-3214	AIR FLOW TO INTERCHANGE REACTOR 2	BLR-CP01	WW1

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

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DSGN	CS BURR	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.
DR	DS PARKER						
CHK	LL WOOD						
APVD	CW MASSIE						

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT



CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

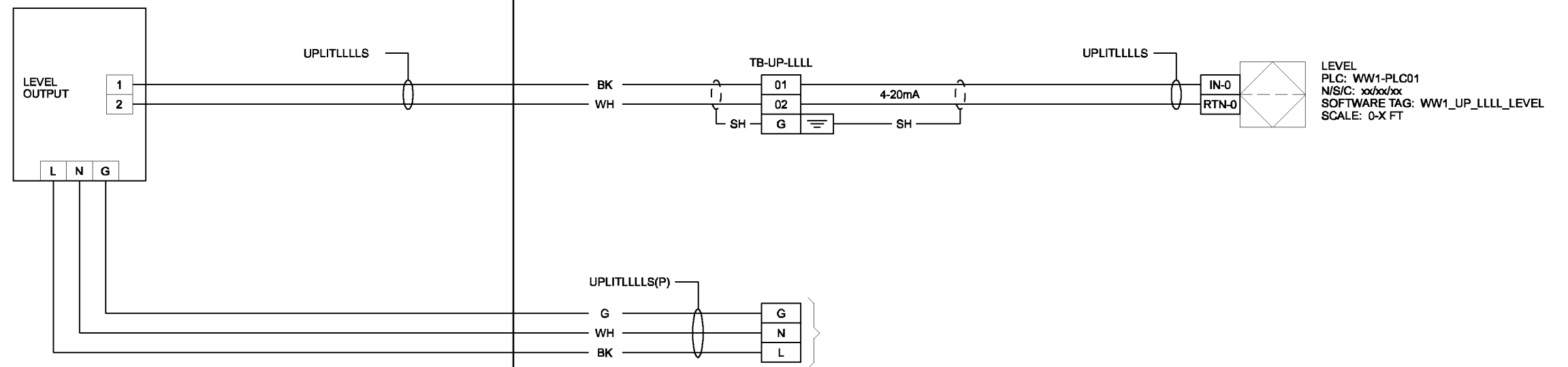
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
 FLOW (THERMAL MASS) TYPICAL
 ANALOG LOOP

SHEET	75
DWG	08-I-44
DATE	MAY 19 2006
PROJ	326918

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FIELD

PANEL



LOOP	LOOP DESCRIPTION	PANEL	SIT	EXCEPTIONS
10-3001	WET PIT WET WELL LEVEL 1	HDW-CP01	WW1	
10-3002	WET PIT WET WELL LEVEL 2	HDW-CP01	WW1	
10-3041	DRY PIT WET WELL LEVEL	HDW-CP01	WW1	

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

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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



CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

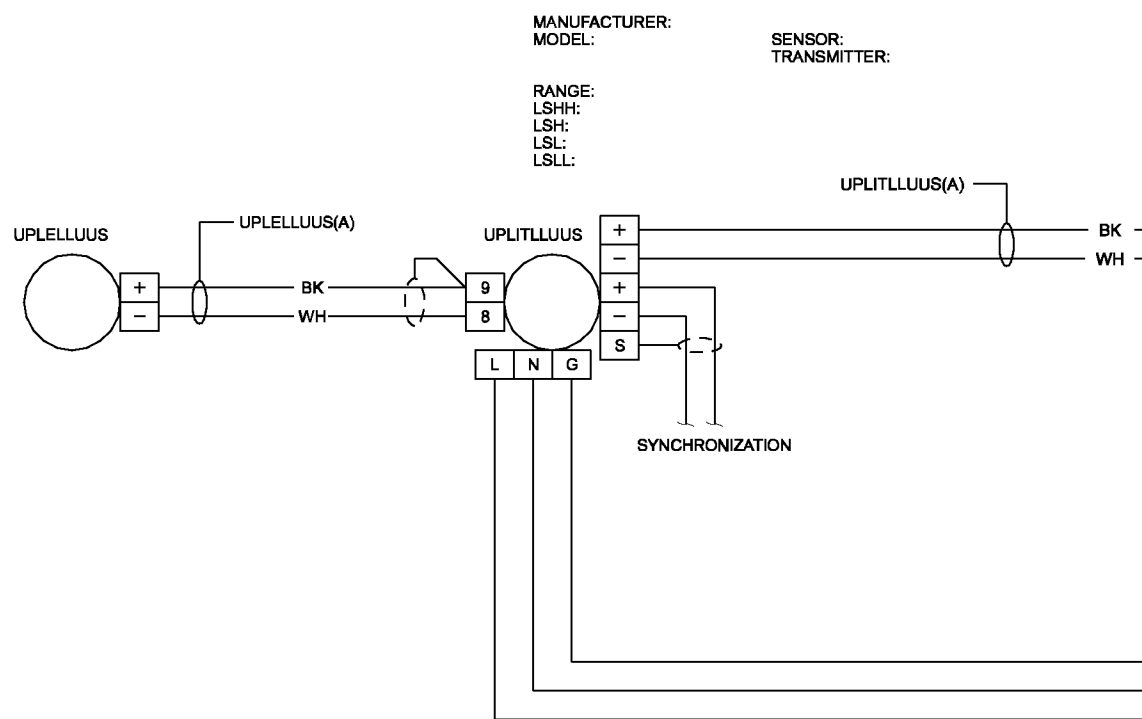
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
 LEVEL (BUBBLER SYSTEM) TYPICAL
 ANALOG LOOP

SHEET	76
DWG	08-1-45
DATE	MAY 19 2006
PROJ	326918

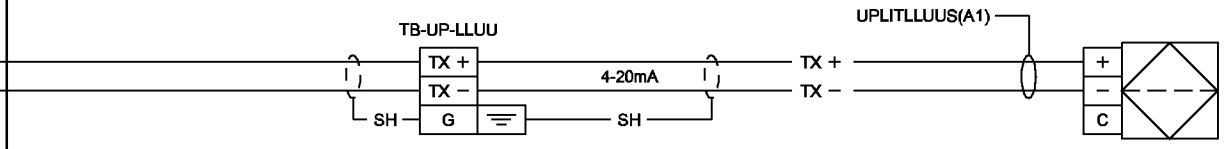
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FIELD

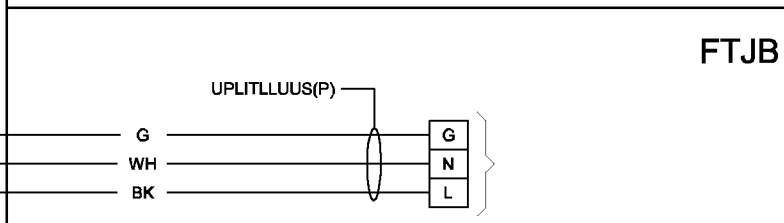
PANEL



MANUFACTURER:
MODEL:
RANGE:
LSHH:
LSH:
LSL:
LSLL:
SENSOR:
TRANSMITTER:



LEVEL
PLC: WW1-PLC01
N/S/C: xx/xx/xx
SOFTWARE TAG: WW1_UP_LL UU_LEVEL
SCALE: 0-X UNITS



LOOP	LOOP DESCRIPTION	PANEL	SIT
20-3001	HEADWORKS INLET CHANNEL LEVEL	HDW-CP01	WW1
20-3002	HEADWORKS DISCHARGE CHANNEL LEVEL	HDW-CP01	WW1
20-3501	VORTEX SEPARATOR EFFLUENT CHANNEL LEVEL	HDW-CP01	WW1
22-3011A	SCREENING DUMPSTER FULL	HDW-CP01	WW1
22-3011B	SCREENING DUMPSTER FULL	HDW-CP01	WW1
24-3021A	GRIT DUMPSTER FULL	HDW-CP01	WW1
24-3021B	GRIT DUMPSTER FULL	HDW-CP01	WW1
30-4001	VLR 1 EFFLUENT CHANNEL LEVEL	VLR-CP01	WW1
30-4002	VLR 2 EFFLUENT CHANNEL LEVEL	VLR-CP01	WW1
30-4201	MIXED LIQUOR DROP BOX	VLR-CP01	WW1
30-4311	VLR BASIN 1B LEVEL	VLR-CP01	WW1
30-4312	VLR BASIN 2B LEVEL	VLR-CP01	WW1
30-4321	VLR BASIN 1C LEVEL	VLR-CP01	WW1
30-4322	VLR BASIN 2C LEVEL	VLR-CP01	WW1
30-4331	VLR BASIN 1D LEVEL	VLR-CP01	WW1
30-4332	VLR BASIN 2D LEVEL	VLR-CP01	WW1
50-3021	SECONDARY CLARIFIER 1 RAS LEVEL	HDW-CP01	WW1
50-3022	SECONDARY CLARIFIER 2 RAS LEVEL	HDW-CP01	WW1
50-3023	SECONDARY CLARIFIER 3 RAS LEVEL	HDW-CP01	WW1
55-3001	RAS SPLITTER BOX	VLR-CP01	WW1
60-3021	CHLORINE CONTACT BASIN 1 LEVEL	IPS-CP01	WW1
60-3022	CHLORINE CONTACT BASIN 2 LEVEL	IPS-CP01	WW1
70-3111	INTERCHANGE REACTOR 1 LEVEL	BLR-CP01	WW1
70-3112	INTERCHANGE REACTOR 2 LEVEL	BLR-CP01	WW1
70-3131	INTERCHANGE REACTOR PUMP WETWELL LEVEL	BLR-CP01	WW1
75-3011	AEROBIC DIGESTER 1 LEVEL	BLR-CP01	WW1
75-3012	AEROBIC DIGESTER 2 LEVEL	BLR-CP01	WW1
75-3121	AEROBIC DIGESTER TRANSFER WETWELL LEVEL	BLR-CP01	WW1

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DSGN	CS BURR						
DR	GJ LOVE						
CHK	LL WOOD	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

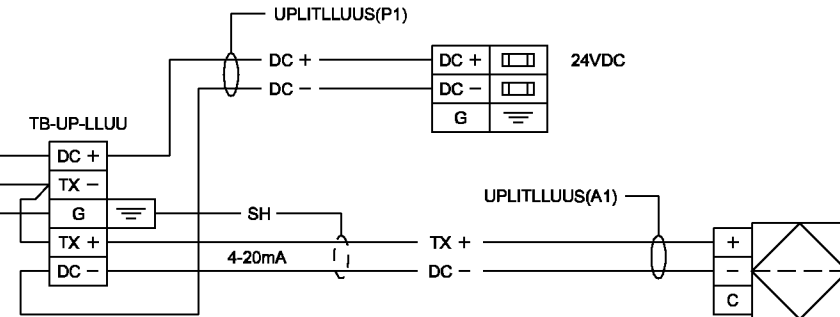
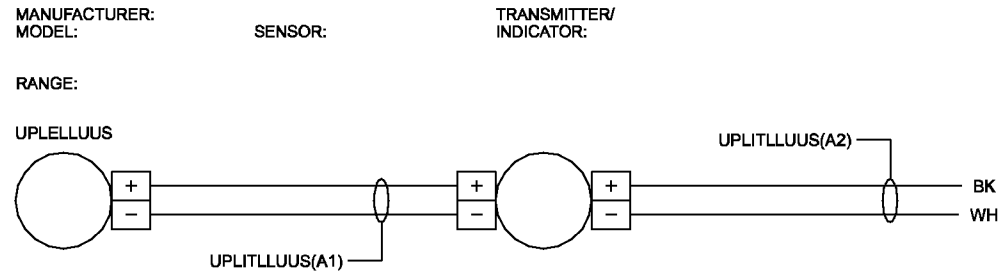
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
LEVEL (ULTRASONIC) TYPICAL
ANALOG LOOP

SHEET	77
DWG	08-1-46
DATE	MAY 19 2006
PROJ	326918

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FIELD

PANEL



LEVEL
 PLC: WW1-PLC01
 N/S/C: xx/xx/xx
 SOFTWARE TAG: WW1_UP_LLUU_LEVEL
 SCALE: 0-X UNITS

LOOP	LOOP DESCRIPTION	PANEL	SIT
38-3001	VLR SCUM PIT LEVEL	VLR-CP01	WW2
45-3001	SECONDARY CLARIFIER 1 SCUM PIT LEVEL	HDW-CP01	WW2
45-3002	SECONDARY CLARIFIER 2 SCUM PIT LEVEL	HDW-CP01	WW2
45-3003	SECONDARY CLARIFIER 3 SCUM PIT LEVEL	HDW-CP01	WW2

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DSGN	CS BURR	NO.	DATE	REVISION	BY	APVD	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	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							



CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

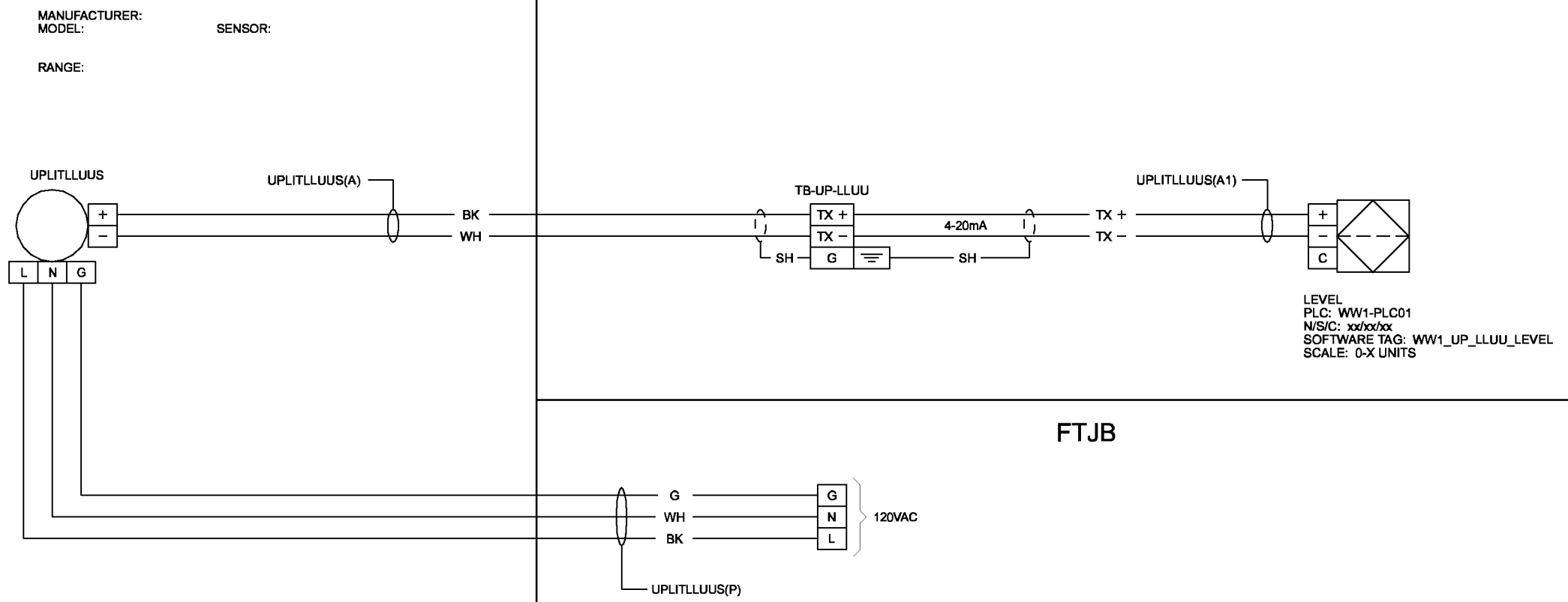
INSTRUMENTATION AND CONTROL
 WIRING DIAGRAM
 LEVEL (SUBMERSIBLE) TYPICAL
 ANALOG LOOP

SHEET	78
DWG	08-1-47
DATE	MAY 19 2006
PROJ	326918

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FIELD

PANEL



LOOP	LOOP DESCRIPTION	PANEL	SIT
70-3111	INTERCHANGE REACTOR 1 LEVEL	BLR-CP01	WW1
70-3112	INTERCHANGE REACTOR 2 LEVEL	BLR-CP01	WW1
70-3131	INTERCHANGE REACTOR PUMP WETWELL LEVEL	BLR-CP01	WW1
72-3011	AEROBIC DIGESTER 1 LEVEL	BLR-CP01	WW1
72-3012	AEROBIC DIGESTER 2 LEVEL	BLR-CP01	WW1
72-3121	AEROBIC DIGESTER TRANSFER WETWELL LEVEL	BLR-CP01	WW1

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

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DSGN	CS BURR	NO.	DATE	REVISION	BY	APVD
DR	GJ LOVE					
CHK	LL WOOD					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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

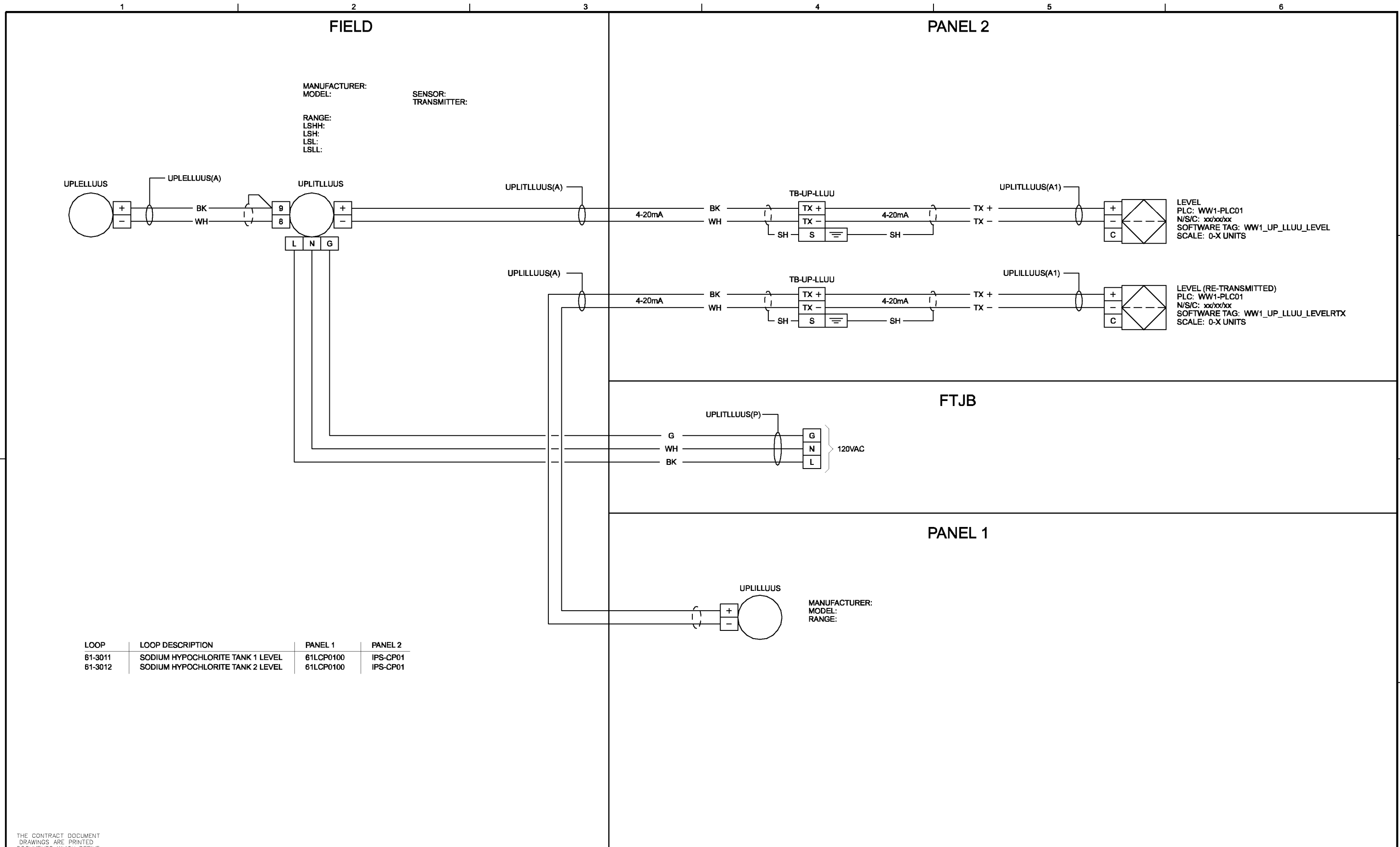


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
LEVEL (RADAR) TYPICAL
ANALOG LOOP

SHEET	79
DWG	08-1-48
DATE	MAY 19 2006
PROJ	326918

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MANUFACTURER:
MODEL:
RANGE:
LSHH:
LSH:
LSL:
LSLL:

SENSOR:
TRANSMITTER:

LEVEL
PLC: WW1-PLC01
N/S/C: xx/xx/xx
SOFTWARE TAG: WW1_UP_LLUII_LEVEL
SCALE: 0-X UNITS

LEVEL (RE-TRANSMITTED)
PLC: WW1-PLC01
N/S/C: xx/xx/xx
SOFTWARE TAG: WW1_UP_LLUII_LEVELRTX
SCALE: 0-X UNITS

LOOP	LOOP DESCRIPTION	PANEL 1	PANEL 2
61-3011	SODIUM HYPOCHLORITE TANK 1 LEVEL	61LCP0100	IPS-CP01
61-3012	SODIUM HYPOCHLORITE TANK 2 LEVEL	61LCP0100	IPS-CP01

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DSGN	CS BURR	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.
DR	GJ LOVE						
CHK	LL WOOD						
APVD	CW MASSIE						

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

PMH CSB



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
CHEMICAL TANK LEVEL TYPICAL
ANALOG LOOP

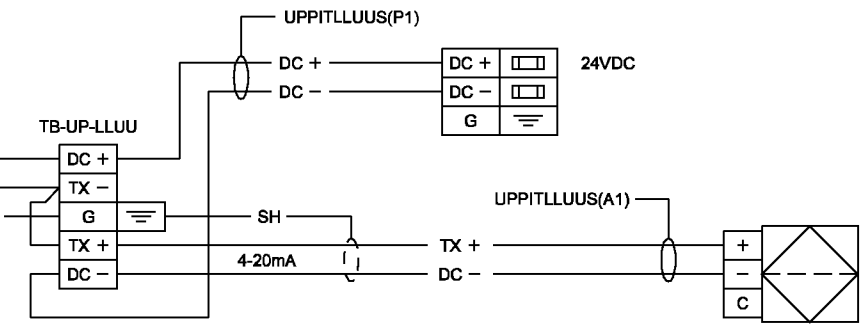
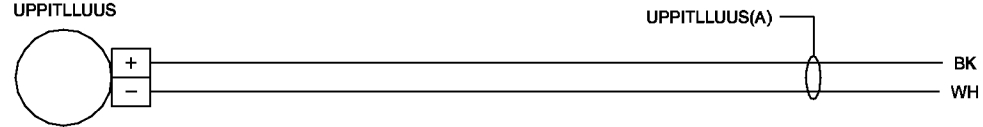
SHEET	80
DWG	08-1-49
DATE	MAY 19 2006
PROJ	326918

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FIELD

PANEL

MANUFACTURER:
MODEL:
RANGE:
SENSOR:
UPPITLLUUS



PRESSURE
PLC: WW1-PLC01
N/S/C: xx/xx/xx
SOFTWARE TAG: WW1_UP_LLUU_PRESSURE
SCALE: 0-X UNITS

LOOP	LOOP DESCRIPTION	PANEL	SIT
24-3001	GRIT CYCLONE 1 PRESSURE	HDW-CP01	WW1
24-3002	GRIT CYCLONE 2 PRESSURE	HDW-CP01	WW1
24-3011	GRIT CYCLONE 4 PRESSURE	HDW-CP01	WW1
24-3012	GRIT CYCLONE 3 PRESSURE	BLR-CP01	WW1
32-3201	AERATION BLOWER HEADER PRESSURE	HDW-CP01	WW1
54-3014	RAS SCREEN BYPASS PRESSURE	HDW-CP01	WW1
67-3011	HOT WATER SYSTEM PRESSURE	IPS-CP01	WW1
68-3011	W3 HEADER PRESSURE	BLR-CP01	WW1
75-3101	AEROBIC DIGESTER DISCHARGE PUMP PRESSURE	HDW-CP01	WW1

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DSGN	CS BURR	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.
DR	GJ LOVE						
CHK	LL WOOD						
APVD	CW MASSIE						

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
PRESSURE TYPICAL
ANALOG LOOP

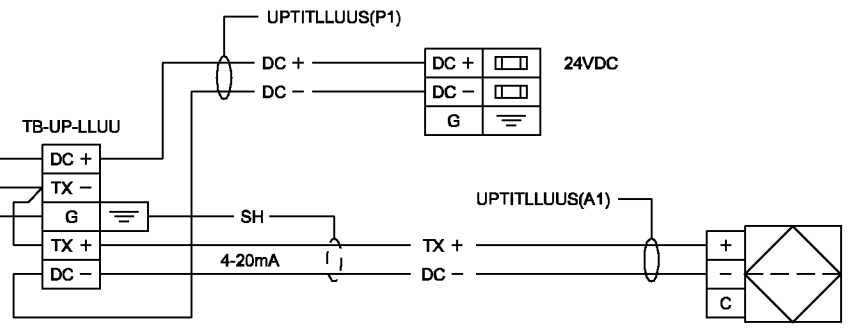
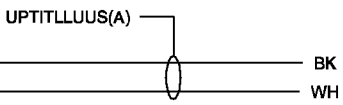
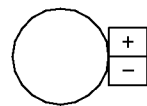
SHEET	81
DWG	08-I-50
DATE	MAY 19 2006
PROJ	326918

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FIELD

PANEL

MANUFACTURER:
MODEL:
RANGE:
SENSOR:
UPTITLLUUS



TEMPERATURE
PLC: WW1-PLC01
N/S/C: xx/xx/xx
SOFTWARE TAG: WW1_UP_LLUU_TEMP
SCALE: 0-X UNITS

LOOP	LOOP DESCRIPTION	PANEL	SIT
32-3111	AERATION BLOWER 1 INLET TEMPERATURE	BLR-CP01	WW1
32-3112	AERATION BLOWER 2 INLET TEMPERATURE	BLR-CP01	WW1
32-3113	AERATION BLOWER 3 INLET TEMPERATURE	BLR-CP01	WW1
32-3114	AERATION BLOWER 4 INLET TEMPERATURE	BLR-CP01	WW1
68-3031	HOT WATER SYSTEM TEMPERATURE	HDW-CP01	WW1

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DSGN	CS BURR	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.
DR	GJ LOVE						
CHK	LL WOOD						
APVD	CW MASSIE						

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

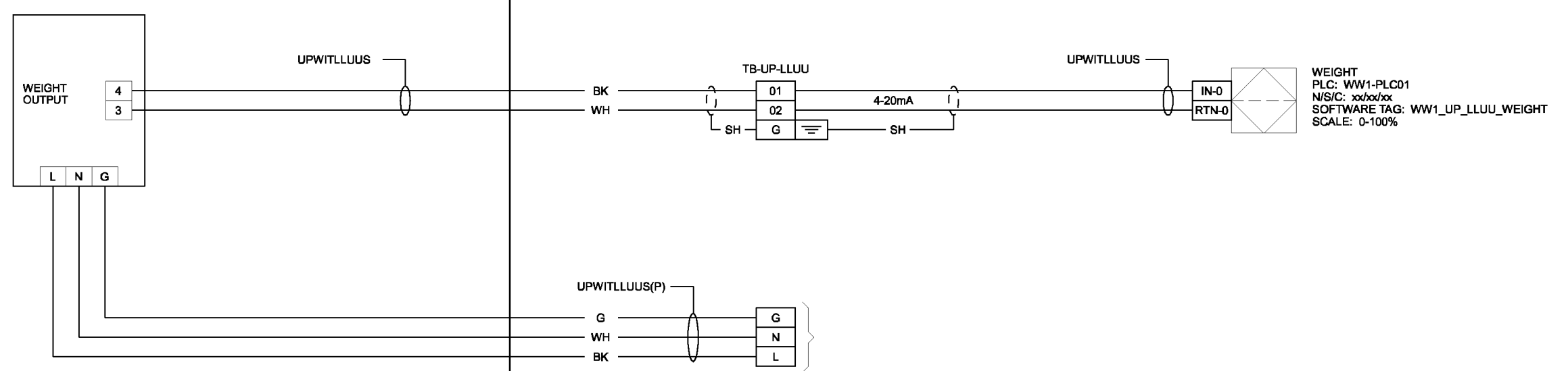
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
TEMPERATURE TYPICAL
ANALOG LOOP

SHEET	82
DWG	08-I-51
DATE	MAY 19 2006
PROJ	326918

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FIELD

PANEL



WEIGHT
 PLC: WW1-PLC01
 N/S/C: xx/xx/xx
 SOFTWARE TAG: WW1_UP_LLUI_WEIGHT
 SCALE: 0-100%

LOOP	LOOP DESCRIPTION	PANEL	SIT
22-3021	SCREENINGS HOPPER WEIGHT	HDW-CP01	WW1
24-1101	GRIT HOPPER WEIGHT	HDW-CP01	WW1

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

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
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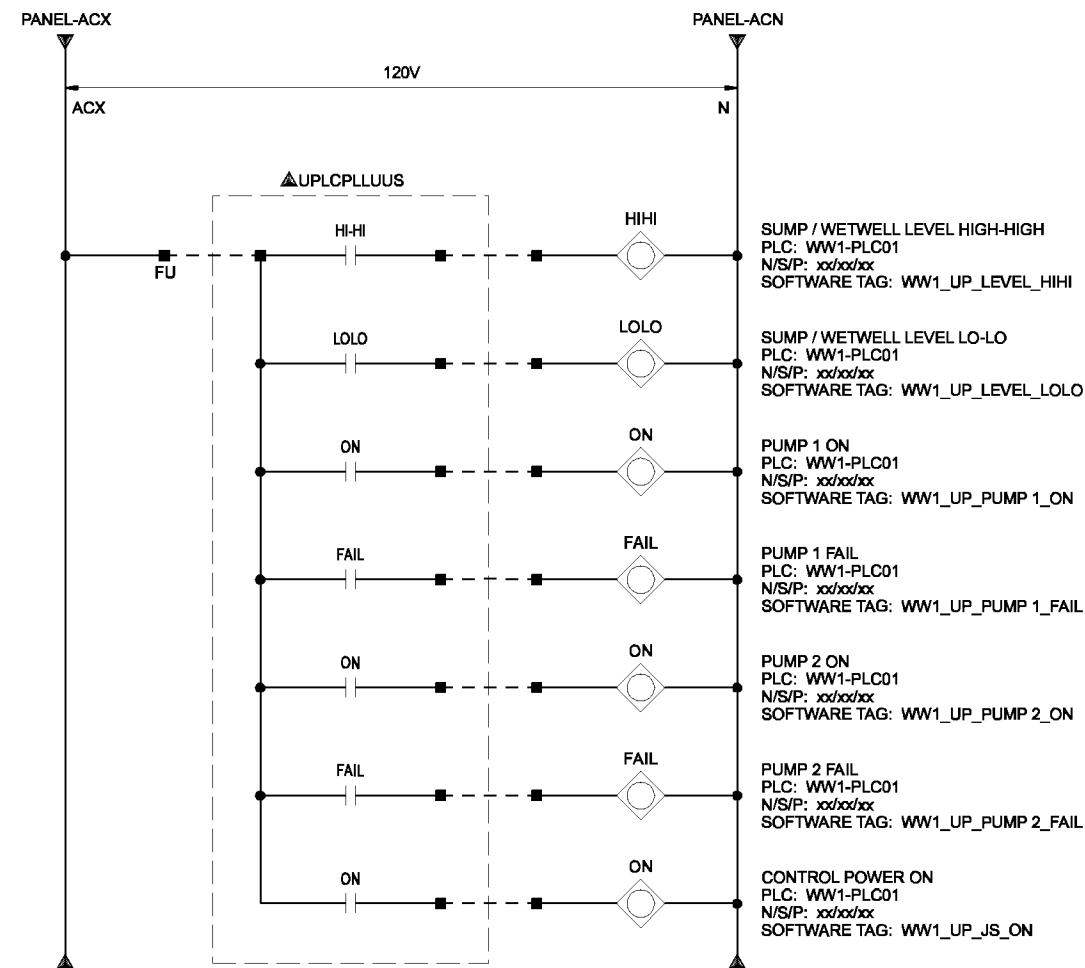
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 WIRING DIAGRAM
 HOPPER WEIGHT TYPICAL
 ANALOG LOOP

SHEET	83
DWG	08-I-52
DATE	MAY 19 2006
PROJ	326918

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PANEL



LOOP	LOOP DESCRIPTION	PANEL	LEVEL	PUMP 1	PUMP 2	JS
20-2000	HEADWORKS SUMP PUMPS	HDW-CP01	3301	2001	2002	2000

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

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

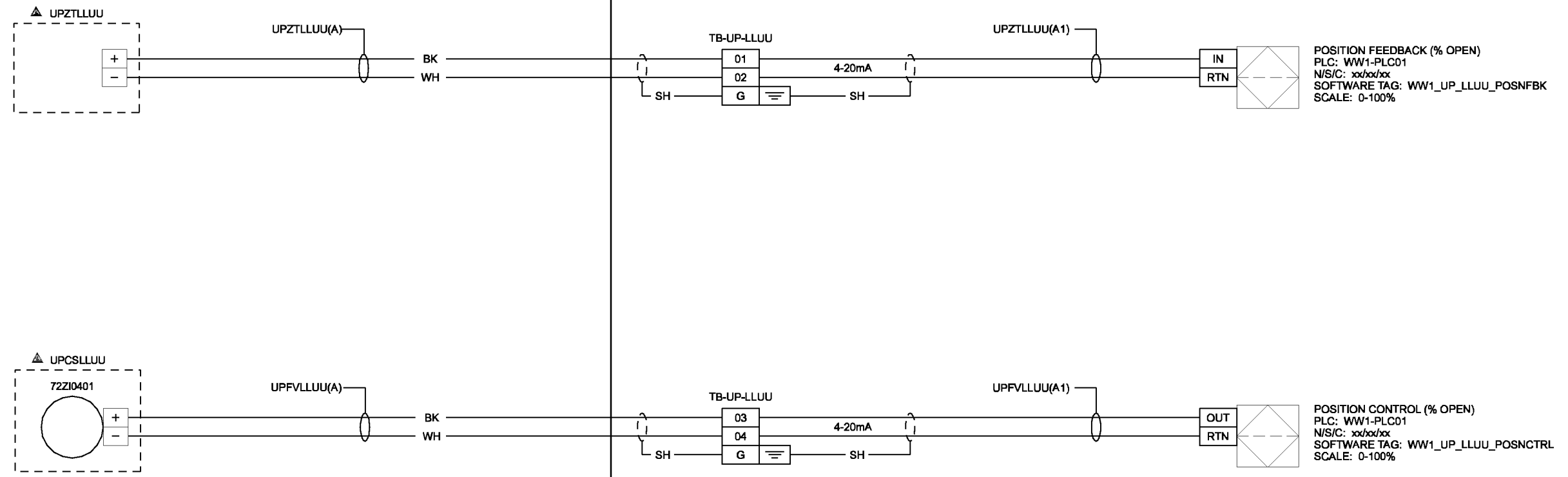
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
HEADWORKS SUMP PUMP
TYPICAL DISCRETE LOOP

SHEET	84
DWG	08-I-53
DATE	MAY 19 2006
PROJ	326918

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FIELD

PANEL



LOOP	LOOP DESCRIPTION	PANEL	SIT	EXCEPTIONS
30-6511	VLR 1B AIR FLOW CONTROL VALVE	BLR-CP01	WW1	
30-6512	VLR 2B AIR FLOW CONTROL VALVE	BLR-CP01	WW1	
30-6521	VLR 1C AIR FLOW CONTROL VALVE	BLR-CP01	WW1	
30-6522	VLR 2C AIR FLOW CONTROL VALVE	BLR-CP01	WW1	
30-6531	VLR 1D AIR FLOW CONTROL VALVE	BLR-CP01	WW1	
30-6532	VLR 2D AIR FLOW CONTROL VALVE	BLR-CP01	WW1	
54-6001	RAS SCREEN 1 FLOW CONTROL VALVE	HDW-CP01	WW1	
54-6002	RAS SCREEN 2 FLOW CONTROL VALVE	HDW-CP01	WW1	
54-6003	RAS SCREEN 3 FLOW CONTROL VALVE	HDW-CP01	WW1	
54-6004	RAS SCREEN BYPASS FLOW CONTROL VALVE	HDW-CP01	WW1	
54-6201	INTERCHANGE REACTOR SRAS FEED CONTROL VALVE	HDW-CP01	WW1	
54-6202	AEROBIC DIGESTER SRAS FEED CONTROL VALVE	HDW-CP01	WW1	

NOTES:
 1. SEE MODULATING VALVE TYPICAL DISCRETE WIRING DIAGRAM FOR CONTINUATION.

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DSGN	CS BURR	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.
DR	DS PARKER						
CHK	LL WOOD						
APVD	CW MASSIE						

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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

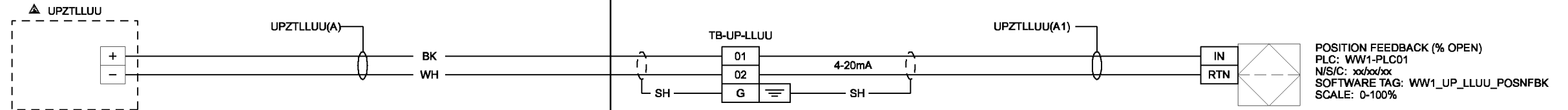
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
 MODULATING VALVE POSITION TYPICAL
 ANALOG LOOP

SHEET	85
DWG	08-1-54
DATE	MAY 19 2006
PROJ	326918

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FIELD

PANEL



LOOP	LOOP DESCRIPTION	PANEL	SIT	EXCEPTIONS
20-0901	VLR FLOW SPLIT WEIR GATE 1	HDW-CP01	WW1	
20-0902	VLR FLOW SPLIT WEIR GATE 2	HDW-CP01	WW1	
30-2001	MIXED LIQUOR EFFLUENT LEVEL CONTROL GATE 1	VLR-CP01	WW1	
30-2002	MIXED LIQUOR EFFLUENT LEVEL CONTROL GATE 2	VLR-CP01	WW1	
38-0301	MIXED LIQUOR DROP BOX SCUM GATE	VLR-CP01	WW1	
55-0101	RAS FLOW SPLIT GATE 1	VLR-CP01	WW1	
55-0102	RAS FLOW SPLIT GATE 2	VLR-CP01	WW1	
30-0311	VLR 1B RAS INLET GATE	BLR-CP01	WW1	
30-0312	VLR 2B RAS INLET GATE	BLR-CP01	WW1	
30-0321	VLR 1C RAS INLET GATE	BLR-CP01	WW1	
30-0322	VLR 2C RAS INLET GATE	BLR-CP01	WW1	
30-0331	VLR 1D RAS INLET GATE	BLR-CP01	WW1	
30-0332	VLR 2D RAS INLET GATE	BLR-CP01	WW1	
30-0111	VLR 1B INLET GATE 1	BLR-CP01	WW1	
30-0211	VLR 1B INLET GATE 2	BLR-CP01	WW1	
30-0121	VLR 1C INLET GATE 1	BLR-CP01	WW1	
30-0221	VLR 1C INLET GATE 2	BLR-CP01	WW1	
30-0131	VLR 1D INLET GATE 1	BLR-CP01	WW1	
30-0231	VLR 1D INLET GATE 2	BLR-CP01	WW1	
30-0112	VLR 2B INLET GATE 1	BLR-CP01	WW1	
30-0212	VLR 2B INLET GATE 2	BLR-CP01	WW1	
30-0122	VLR 2C INLET GATE 1	BLR-CP01	WW1	
30-0222	VLR 2C INLET GATE 2	BLR-CP01	WW1	
30-0132	VLR 2D INLET GATE 1	BLR-CP01	WW1	
30-0232	VLR 2D INLET GATE 2	BLR-CP01	WW1	
30-1021	VLR 1C FLOW CONTROL GATE 1	VLR-CP01	WW1	
30-1031	VLR 1D FLOW CONTROL GATE 1	VLR-CP01	WW1	
30-1022	VLR 2C FLOW CONTROL GATE 1	VLR-CP01	WW1	
30-1032	VLR 2D FLOW CONTROL GATE 1	VLR-CP01	WW1	
30-1121	VLR 1C FLOW CONTROL GATE 2	VLR-CP01	WW1	
30-1131	VLR 1D FLOW CONTROL GATE 2	VLR-CP01	WW1	
30-1122	VLR 2C FLOW CONTROL GATE 2	VLR-CP01	WW1	
30-1132	VLR 2D FLOW CONTROL GATE 2	VLR-CP01	WW1	
30-1221	VLR 1C LEVEL CONTROL GATE	VLR-CP01	WW1	
30-1231	VLR 1D LEVEL CONTROL GATE	VLR-CP01	WW1	
30-1222	VLR 2C LEVEL CONTROL GATE	VLR-CP01	WW1	
30-1232	VLR 2D LEVEL CONTROL GATE	VLR-CP01	WW1	
30-1321	VLR TRAIN 1 CHANNEL FLOW CONTROL GATE 2	VLR-CP01	WW1	
30-1331	VLR TRAIN 1 CHANNEL FLOW CONTROL GATE 3	VLR-CP01	WW1	
30-1322	VLR TRAIN 2 CHANNEL FLOW CONTROL GATE 2	VLR-CP01	WW1	
30-1332	VLR TRAIN 2 CHANNEL FLOW CONTROL GATE 3	VLR-CP01	WW1	
60-0301	CHLORINE CONTACT BASIN 1 EFFLUENT GATE	IPS-CP01	WW1	
60-0302	CHLORINE CONTACT BASIN 2 EFFLUENT GATE	IPS-CP01	WW1	

NOTES:

- SEE MODULATING GATE TYPICAL DISCRETE WIRING DIAGRAM FOR CONTINUATION.

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DSGN	CS BURR						
DR	DS PARKER						
CHK	LL WOOD	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
MODULATING GATE POSITION TYPICAL
ANALOG LOOP

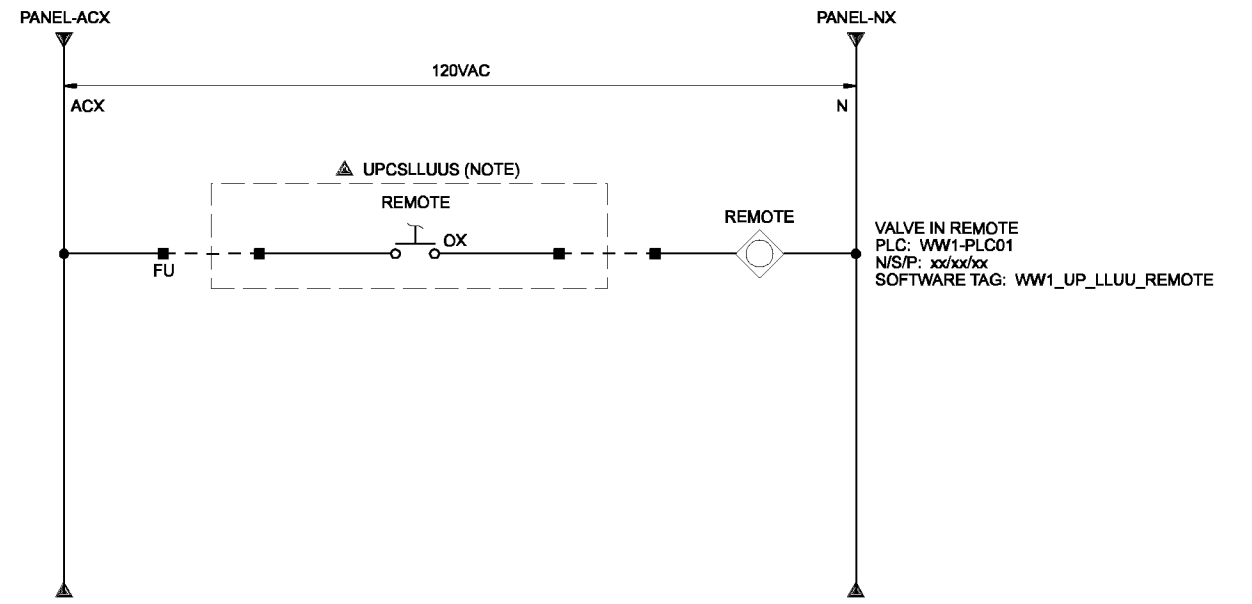
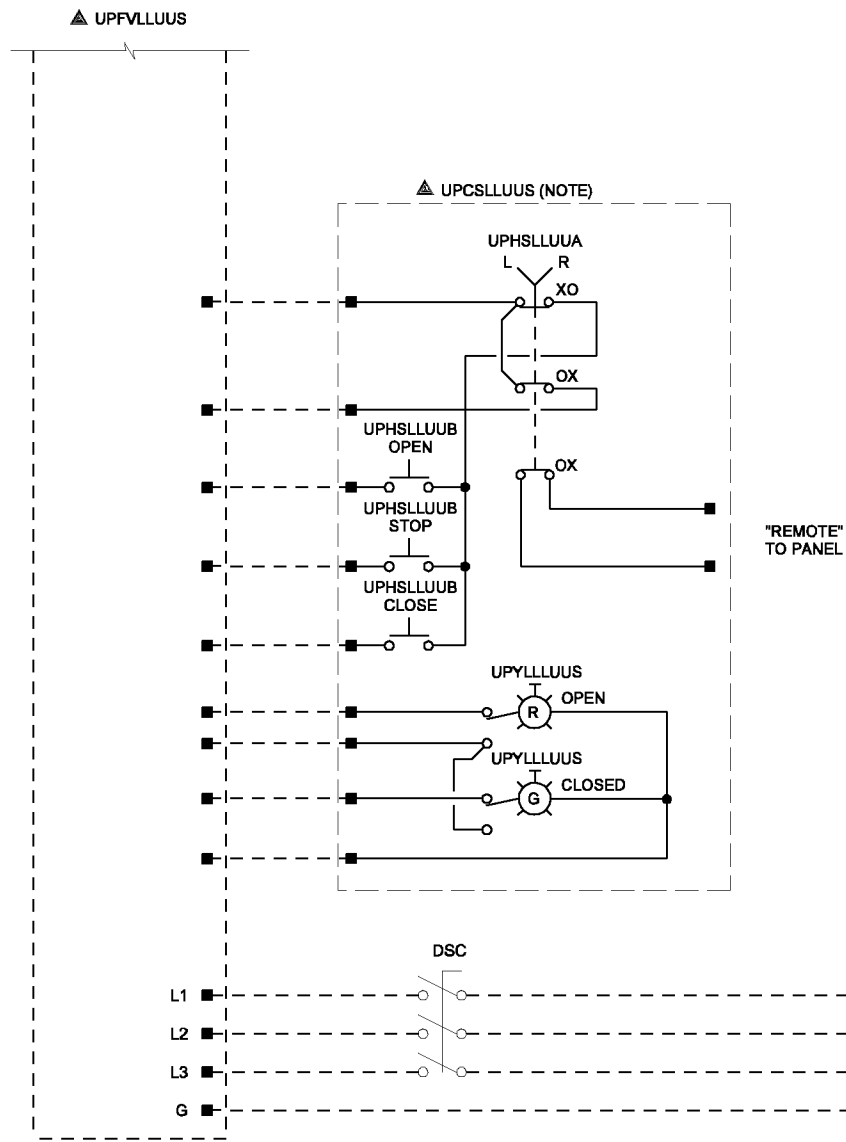
SHEET	86
DWG	08-I-55
DATE	MAY 19 2006
PROJ	326918

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FIELD

PANEL

TJB



LOOP	LOOP DESCRIPTION	PANEL	SIT	EXCEPTIONS
54-6001	RAS SCREEN 1 FLOW CONTROL VALVE	HDW-CP01	WW1	
54-6002	RAS SCREEN 2 FLOW CONTROL VALVE	HDW-CP01	WW1	
54-6003	RAS SCREEN 3 FLOW CONTROL VALVE	HDW-CP01	WW1	
54-6004	RAS SCREEN BYPASS FLOW CONTROL VALVE	HDW-CP01	WW1	

NOTE:
 REMOTE CONTROLS ARE SHOWN.
 WHERE CONTROLS ARE INTEGRAL
 TO ACTUATOR, REFER TO 08-I-57.

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DSGN	CS BURR								
DR	DS PARKER								
CHK	LL WOOD	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

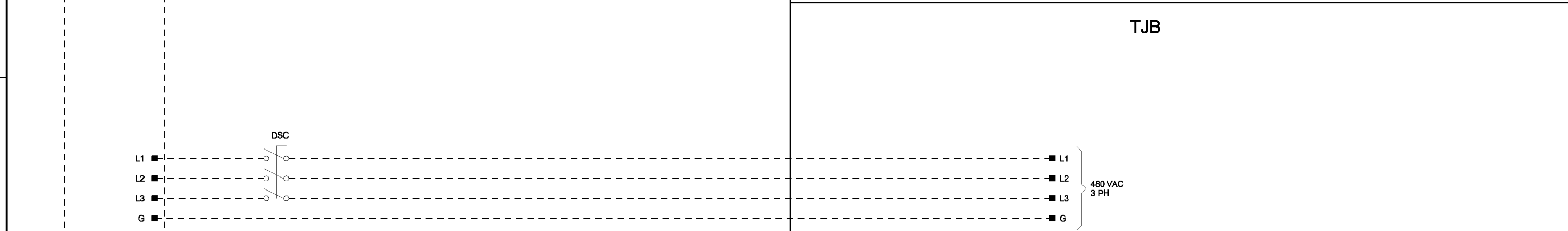
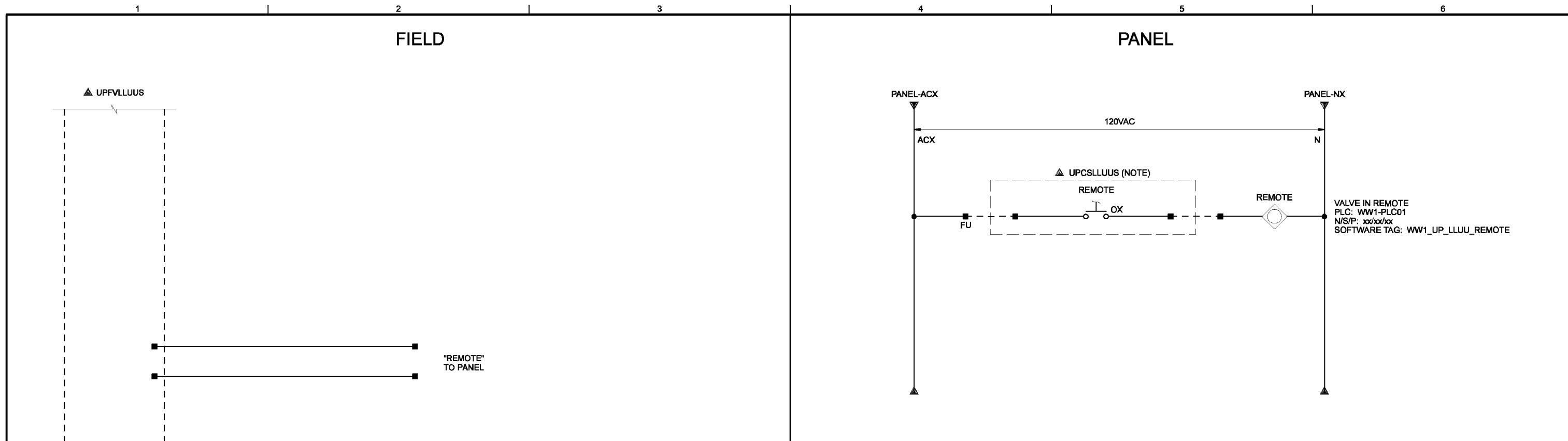
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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 WIRING DIAGRAM
 MODULATING VALVE TYPICAL
 (REMOTE) DISCRETE LOOP

SHEET	87
DWG	08-I-56
DATE	MAY 19 2006
PROJ	326918



LOOP	LOOP DESCRIPTION	PANEL	SIT	EXCEPTIONS
30-6511	VLR 1B AIR FLOW CONTROL VALVE	BLR-CP01	WW1	
30-6512	VLR 2B AIR FLOW CONTROL VALVE	BLR-CP01	WW1	
30-6521	VLR 1C AIR FLOW CONTROL VALVE	BLR-CP01	WW1	
30-6522	VLR 2C AIR FLOW CONTROL VALVE	BLR-CP01	WW1	
30-6531	VLR 1D AIR FLOW CONTROL VALVE	BLR-CP01	WW1	
30-6532	VLR 2D AIR FLOW CONTROL VALVE	BLR-CP01	WW1	
54-6201	INTERCHANGE REACTOR SRAS FEED CONTROL VALVE	HDW-CP01	WW1	
54-6202	AEROBIC DIGESTER SRAS FEED CONTROL VALVE	HDW-CP01	WW1	

NOTE:
 INTEGRAL CONTROLS ARE SHOWN.
 WHERE CONTROLS ARE REMOTE
 TO ACTUATOR, REFER TO 08-I-59A.

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

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

VERIFY SCALE
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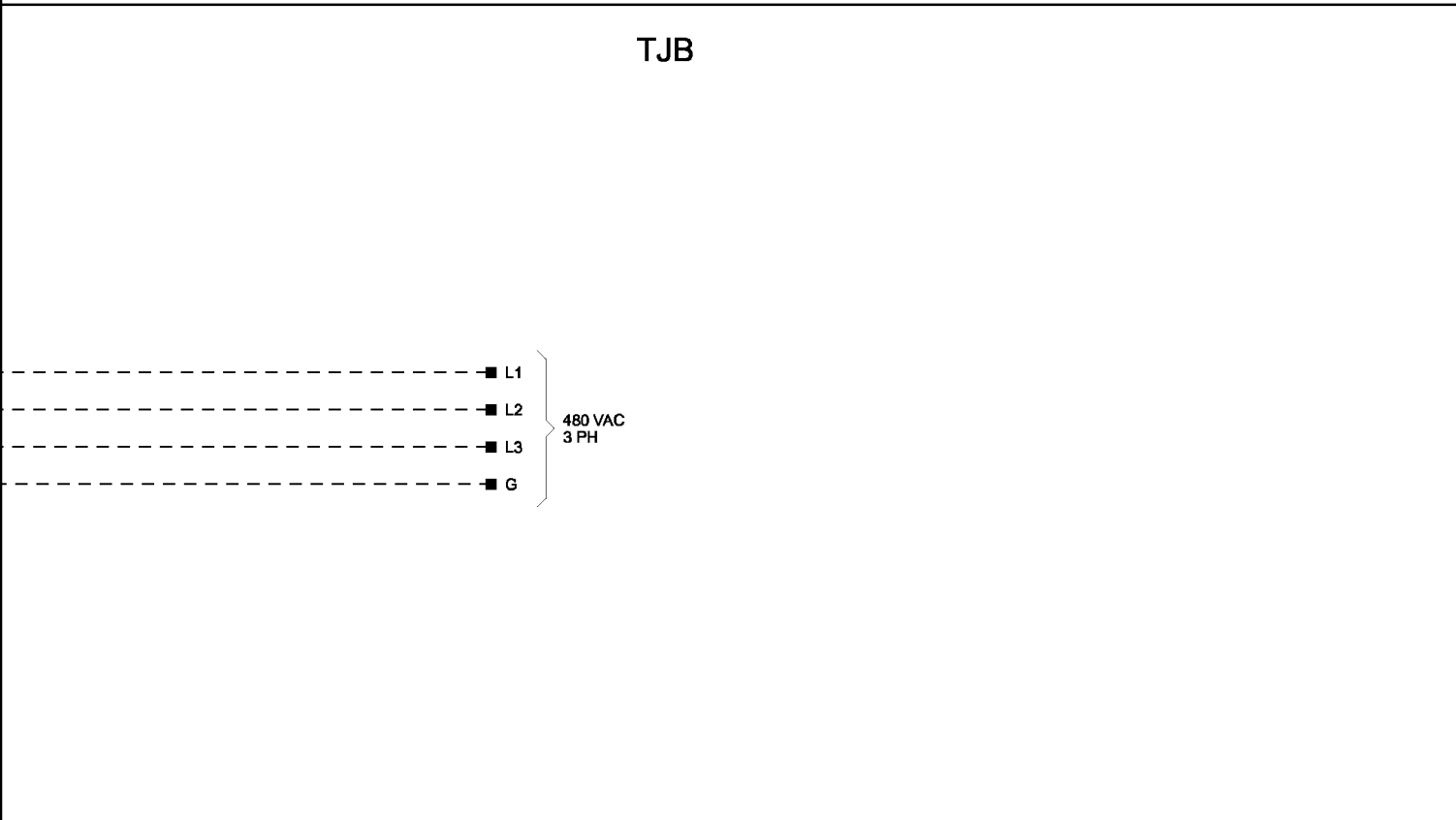
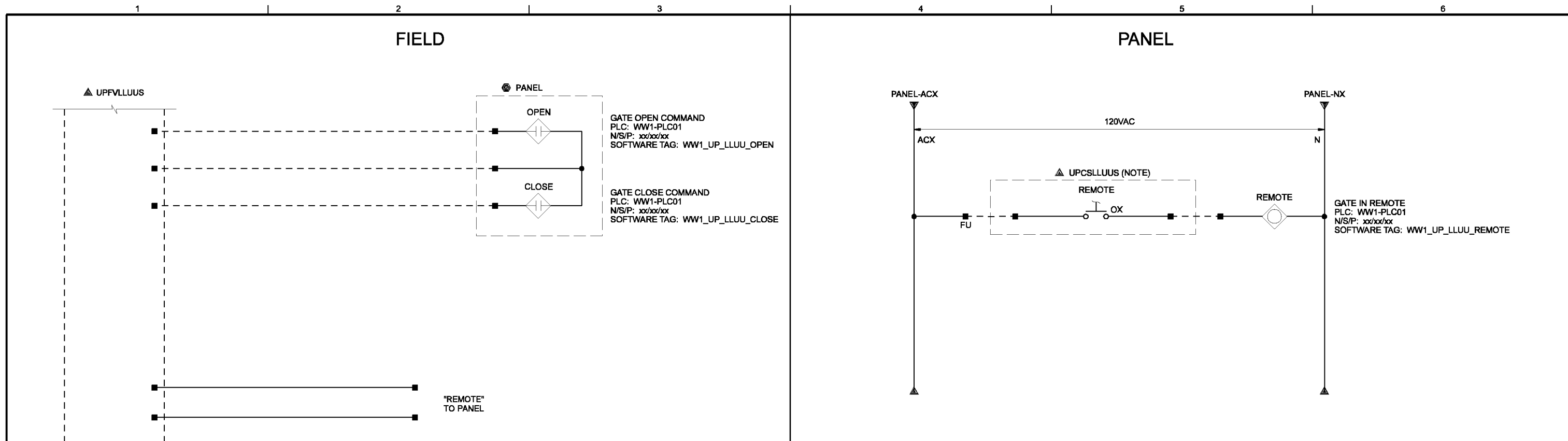


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
 MODULATING VALVE TYPICAL
 (INTEGRAL) DISCRETE LOOP

SHEET	88
DWG	08-I-57
DATE	MAY 19 2006
PROJ	326918

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NOTES:
 1. REFER TO 08-I-59 FOR SCHEDULE OF GATES.

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DSGN	CS BURR								
DR	DS PARKER								
CHK	LL WOOD	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 WIRING DIAGRAM
 MODULATING GATE TYPICAL
 DISCRETE LOOP

SHEET	89
DWG	08-I-58
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	SIT	EXCEPTIONS
20-0901	VLR FLOW SPLIT WEIR GATE 1	HDW-CP01	WW1	
20-0902	VLR FLOW SPLIT WEIR GATE 2	HDW-CP01	WW1	
30-2001	MIXED LIQUOR EFFLUENT LEVEL CONTROL GATE 1	VLR-CP01	WW1	
30-2002	MIXED LIQUOR EFFLUENT LEVEL CONTROL GATE 2	VLR-CP01	WW1	
38-0301	MIXED LIQUOR DROP BOX SCUM GATE	VLR-CP01	WW1	
55-0101	RAS FLOW SPLIT GATE 1	VLR-CP01	WW1	
55-0102	RAS FLOW SPLIT GATE 2	VLR-CP01	WW1	
30-0311	VLR 1B RAS INLET GATE	BLR-CP01	WW1	
30-0312	VLR 2B RAS INLET GATE	BLR-CP01	WW1	
30-0321	VLR 1C RAS INLET GATE	BLR-CP01	WW1	
30-0322	VLR 2C RAS INLET GATE	BLR-CP01	WW1	
30-0331	VLR 1D RAS INLET GATE	BLR-CP01	WW1	
30-0332	VLR 2D RAS INLET GATE	BLR-CP01	WW1	
30-0111	VLR 1B INLET GATE 1	BLR-CP01	WW1	
30-0211	VLR 1B INLET GATE 2	BLR-CP01	WW1	
30-0121	VLR 1C INLET GATE 1	BLR-CP01	WW1	
30-0221	VLR 1C INLET GATE 2	BLR-CP01	WW1	
30-0131	VLR 1D INLET GATE 1	BLR-CP01	WW1	
30-0231	VLR 1D INLET GATE 2	BLR-CP01	WW1	
30-0112	VLR 2B INLET GATE 1	BLR-CP01	WW1	
30-0212	VLR 2B INLET GATE 2	BLR-CP01	WW1	
30-0122	VLR 2C INLET GATE 1	BLR-CP01	WW1	
30-0222	VLR 2C INLET GATE 2	BLR-CP01	WW1	
30-0132	VLR 2D INLET GATE 1	BLR-CP01	WW1	
30-0232	VLR 2D INLET GATE 2	BLR-CP01	WW1	
30-1021	VLR 1C FLOW CONTROL GATE 1	VLR-CP01	WW1	
30-1031	VLR 1D FLOW CONTROL GATE 1	VLR-CP01	WW1	
30-1022	VLR 2C FLOW CONTROL GATE 1	VLR-CP01	WW1	
30-1032	VLR 2D FLOW CONTROL GATE 1	VLR-CP01	WW1	
30-1121	VLR 1C FLOW CONTROL GATE 2	VLR-CP01	WW1	
30-1131	VLR 1D FLOW CONTROL GATE 2	VLR-CP01	WW1	
30-1122	VLR 2C FLOW CONTROL GATE 2	VLR-CP01	WW1	
30-1132	VLR 2D FLOW CONTROL GATE 2	VLR-CP01	WW1	
30-1221	VLR 1C LEVEL CONTROL GATE	VLR-CP01	WW1	
30-1231	VLR 1D LEVEL CONTROL GATE	VLR-CP01	WW1	
30-1222	VLR 2C LEVEL CONTROL GATE	VLR-CP01	WW1	
30-1232	VLR 2D LEVEL CONTROL GATE	VLR-CP01	WW1	
30-1321	VLR TRAIN 1 CHANNEL FLOW CONTROL GATE 2	VLR-CP01	WW1	
30-1331	VLR TRAIN 1 CHANNEL FLOW CONTROL GATE 3	VLR-CP01	WW1	
30-1322	VLR TRAIN 2 CHANNEL FLOW CONTROL GATE 2	VLR-CP01	WW1	
30-1332	VLR TRAIN 2 CHANNEL FLOW CONTROL GATE 3	VLR-CP01	WW1	
60-0301	CHLORINE CONTACT BASIN 1 EFFLUENT GATE	IPS-CP01	WW1	
60-0302	CHLORINE CONTACT BASIN 2 EFFLUENT GATE	IPS-CP01	WW1	

A
 B
 C
 D
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DSGN	CS BURR						
DR	DS PARKER						
CHK	LL WOOD	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

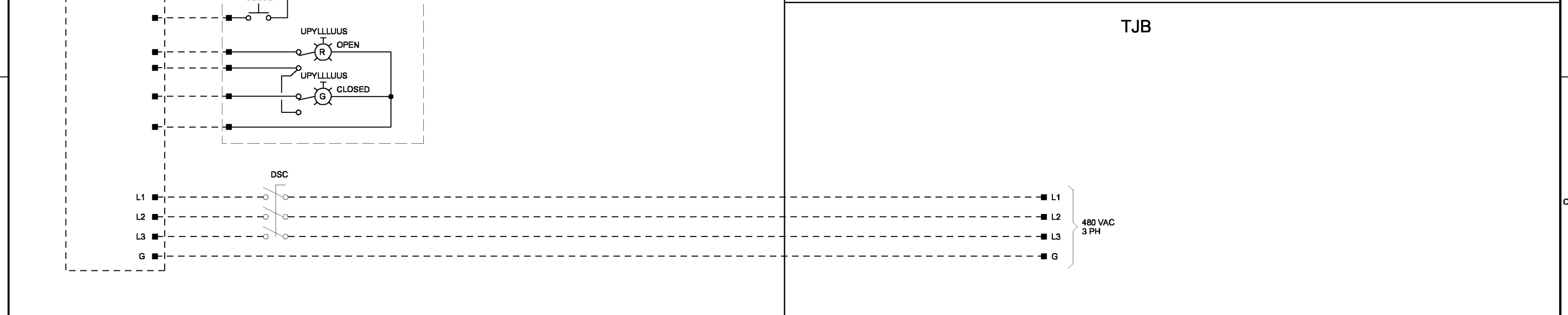
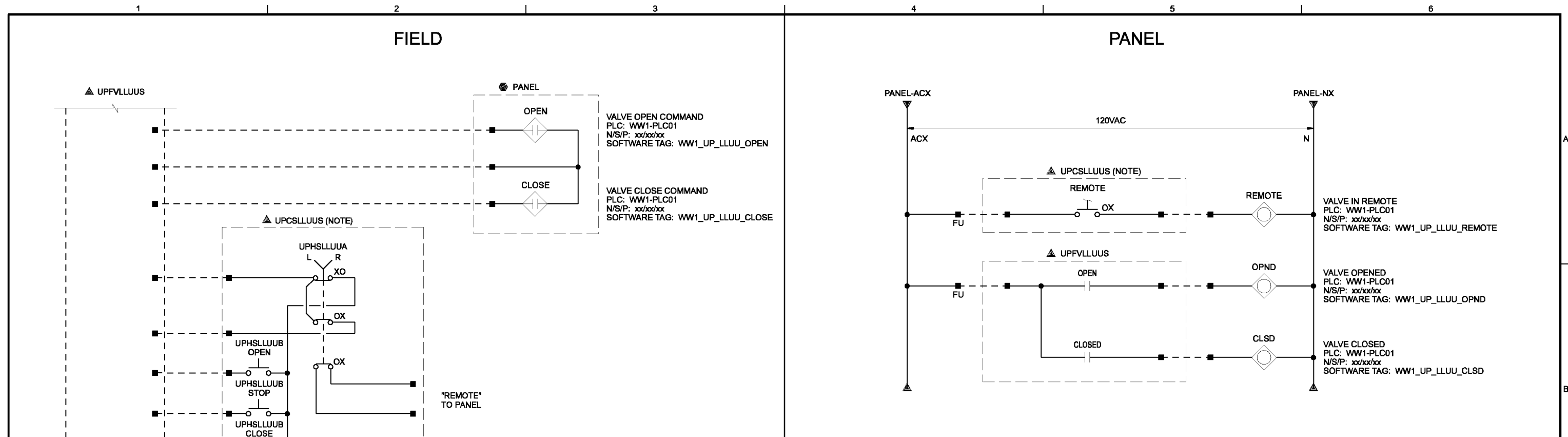
VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
MODULATING GATE
SCHEDULE

SHEET	90
DWG	08-I-59
DATE	MAY 19 2006
PROJ	326918



LOOP	LOOP DESCRIPTION	PANEL	SIT	EXCEPTIONS
20-0601	BYPASS WEIR GATE 1	HDW-CP01	WW1	
20-0602	BYPASS WEIR GATE 2	HDW-CP01	WW1	
61-6011	STORM DRAIN MANHOLE DRAIN VALVE	61LCP0100	WW1	INPUT POINTS TERMINATE IN IPS-CP01

NOTE:
 REMOTE CONTROLS ARE SHOWN. WHERE CONTROLS ARE INTEGRAL TO ACTUATOR, REFER TO 08-I-61.

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DSGN	CS BURR	NO.	DATE	REVISION	BY	APVD	VERIFICATION
DR	DS PARKER						
CHK	LL WOOD						
APVD	CW MASSIE						

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

NO.	DATE	REVISION	BY	APVD
			PMH	CSB

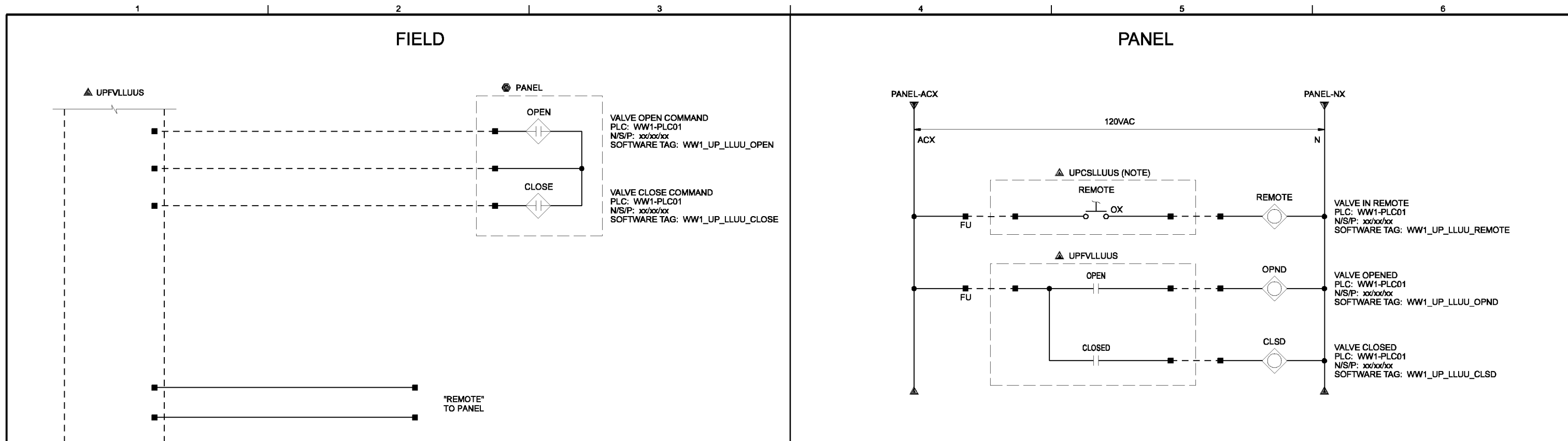


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
 OPEN/CLOSE GATE OR VALVE TYPICAL
 (REMOTE) DISCRETE LOOP

SHEET	91
DWG	08-I-60
DATE	MAY 19 2006
PROJ	326918

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TJB

- NOTES:**
1. INTEGRAL CONTROLS ARE SHOWN. WHERE CONTROLS ARE REMOTE TO ACTUATOR, REFER TO 08-I-60.
 2. REFER TO 08-I-82 FOR SCHEDULE OF GATES AND VALVES.

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DSGN	CS BURR								
DR	DS PARKER								
CHK	LL WOOD	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
OPEN/CLOSE GATE OR VALVE TYPICAL
(INTEGRAL) DISCRETE LOOP

SHEET	92
DWG	08-I-61
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	SIT	EXCEPTIONS
07-0111	EFFLUENT DIVERSION GATE	IPS-CP01	WW1	
20-0011	HEADWORKS INLET GATE 1	HDW-CP01	WW1	
20-0012	HEADWORKS INLET GATE 2	HDW-CP01	WW1	
20-0013	HEADWORKS INLET GATE 3	HDW-CP01	WW1	
20-0101	INFLUENT SCREEN 1 INFLUENT GATE	HDW-CP01	WW1	
20-0102	INFLUENT SCREEN 2 INFLUENT GATE	HDW-CP01	WW1	
20-0103	INFLUENT SCREEN 3 INFLUENT GATE	HDW-CP01	WW1	
20-0401	INFLUENT SCREEN 1 DISCHARGE GATE	HDW-CP01	WW1	
20-0402	INFLUENT SCREEN 2 DISCHARGE GATE	HDW-CP01	WW1	
20-0403	INFLUENT SCREEN 3 DISCHARGE GATE	HDW-CP01	WW1	
20-0501	VORTEX INLET GATE 1	HDW-CP01	WW1	
20-0502	VORTEX INLET GATE 2	HDW-CP01	WW1	
20-0503	VORTEX INLET GATE 3	HDW-CP01	WW1	
20-0801	VORTEX DISCHARGE GATE 1	HDW-CP01	WW1	
20-0802	VORTEX DISCHARGE GATE 2	HDW-CP01	WW1	
20-0803	VORTEX DISCHARGE GATE 3	HDW-CP01	WW1	
20-6001	INFLUENT SCREEN 1 W3 WATER VALVE	HDW-CP01	WW1	
20-6002	INFLUENT SCREEN 2 W3 WATER VALVE	HDW-CP01	WW1	
20-6003	INFLUENT SCREEN 3 W3 WATER VALVE	HDW-CP01	WW1	
20-6011	INFLUENT SCREEN 1 HOT WATER VALVE	HDW-CP01	WW1	
20-6012	INFLUENT SCREEN 2 HOT WATER VALVE	HDW-CP01	WW1	
20-6013	INFLUENT SCREEN 3 HOT WATER VALVE	HDW-CP01	WW1	
20-6101	VORTEX GRIT DISCHARGE VALVE 1	HDW-CP01	WW1	
20-6102	VORTEX GRIT DISCHARGE VALVE 2	HDW-CP01	WW1	
20-6103	VORTEX GRIT DISCHARGE VALVE 3	HDW-CP01	WW1	
20-6111	GRIT PUMP 1 INLET VALVE	HDW-CP01	WW1	
20-6112	GRIT PUMP 2 INLET VALVE	HDW-CP01	WW1	
20-6113	GRIT PUMP 3 INLET VALVE	HDW-CP01	WW1	
20-6114	GRIT PUMP 4 INLET VALVE	HDW-CP01	WW1	
20-6115	GRIT PUMP 5 INLET VALVE	HDW-CP01	WW1	
20-6131	GRIT PUMP W3 SUPPLY VALVE 1	HDW-CP01	WW1	
20-6132	GRIT PUMP W3 SUPPLY VALVE 2	HDW-CP01	WW1	
20-6133	GRIT PUMP W3 SUPPLY VALVE 3	HDW-CP01	WW1	
22-1201	SCREENING HOPPER GATE	HDW-CP01	WW1	
22-6001	SCREENINGS WASHER/COMPACTOR 1 W3 SUPPLY VALVE 1	HDW-CP01	WW1	
22-6002	SCREENINGS WASHER/COMPACTOR 2 W3 SUPPLY VALVE 1	HDW-CP01	WW1	
22-6003	SCREENINGS WASHER/COMPACTOR 3 W3 SUPPLY VALVE 1	HDW-CP01	WW1	
22-6011	SCREENINGS WASHER/COMPACTOR 1 W3 SUPPLY VALVE 2	HDW-CP01	WW1	
22-6012	SCREENINGS WASHER/COMPACTOR 2 W3 SUPPLY VALVE 2	HDW-CP01	WW1	
22-6013	SCREENINGS WASHER/COMPACTOR 3 W3 SUPPLY VALVE 2	HDW-CP01	WW1	
22-6021	SCREENINGS WASHER/COMPACTOR 1 HOT SUPPLY VALVE 1	HDW-CP01	WW1	
22-6022	SCREENINGS WASHER/COMPACTOR 2 HOT SUPPLY VALVE 1	HDW-CP01	WW1	
22-6023	SCREENINGS WASHER/COMPACTOR 3 HOT SUPPLY VALVE 1	HDW-CP01	WW1	
22-6031	SCREENINGS WASHER/COMPACTOR 1 HOT SUPPLY VALVE 2	HDW-CP01	WW1	
22-6032	SCREENINGS WASHER/COMPACTOR 2 HOT SUPPLY VALVE 2	HDW-CP01	WW1	
22-6033	SCREENINGS WASHER/COMPACTOR 3 HOT SUPPLY VALVE 2	HDW-CP01	WW1	
22-6041	SCREENINGS WASHER/COMPACTOR 1 HOT SUPPLY VALVE 3	HDW-CP01	WW1	
22-6042	SCREENINGS WASHER/COMPACTOR 2 HOT SUPPLY VALVE 3	HDW-CP01	WW1	
22-6043	SCREENINGS WASHER/COMPACTOR 3 HOT SUPPLY VALVE 3	HDW-CP01	WW1	
24-1201	GRIT HOPPER GATE	HDW-CP01	WW1	
24-6001	GRIT CLASSIFIER 1 INLET VALVE 1	HDW-CP01	WW1	
24-6002	GRIT CLASSIFIER 2 INLET VALVE 1	HDW-CP01	WW1	
24-6011	GRIT CLASSIFIER 1 INLET VALVE 2	HDW-CP01	WW1	
24-6012	GRIT CLASSIFIER 2 INLET VALVE 2	HDW-CP01	WW1	
24-6021	GRIT CLASSIFIER 1 W3 SUPPLY VALVE	HDW-CP01	WW1	
24-6022	GRIT CLASSIFIER 2 W3 SUPPLY VALVE	HDW-CP01	WW1	

LOOP	LOOP DESCRIPTION	PANEL	SIT	EXCEPTIONS
38-0101	SECONDARY CLARIFIER 1 INLET GATE	HDW-CP01	WW1	
38-0102	SECONDARY CLARIFIER 2 INLET GATE	HDW-CP01	WW1	
38-0103	SECONDARY CLARIFIER 3 INLET GATE	HDW-CP01	WW1	
38-0104	SECONDARY CLARIFIER 4 INLET GATE	HDW-CP01	WW1	
45-0111	SECONDARY CLARIFIER 1 ISOLATION GATE	HDW-CP01	WW1	
45-0112	SECONDARY CLARIFIER 2 ISOLATION GATE	HDW-CP01	WW1	
45-0113	SECONDARY CLARIFIER 3 ISOLATION GATE	HDW-CP01	WW1	
54-6011	RAS SCREEN 1 W3 SPRAY VALVE 1	HDW-CP01	WW1	
54-6012	RAS SCREEN 2 W3 SPRAY VALVE 1	HDW-CP01	WW1	
54-6013	RAS SCREEN 3 W3 SPRAY VALVE 1	HDW-CP01	WW1	
54-6021	RAS SCREEN 1 W3 SPRAY VALVE 2	HDW-CP01	WW1	
54-6022	RAS SCREEN 2 W3 SPRAY VALVE 2	HDW-CP01	WW1	
54-6023	RAS SCREEN 3 W3 SPRAY VALVE 2	HDW-CP01	WW1	
54-6031	RAS SCREEN 1 HOT WATER SUPPLY VALVE 1	HDW-CP01	WW1	
54-6032	RAS SCREEN 2 HOT WATER SUPPLY VALVE 1	HDW-CP01	WW1	
54-6033	RAS SCREEN 3 HOT WATER SUPPLY VALVE 1	HDW-CP01	WW1	
54-6041	RAS SCREEN 1 HOT WATER SUPPLY VALVE 2	HDW-CP01	WW1	
54-6042	RAS SCREEN 2 HOT WATER SUPPLY VALVE 2	HDW-CP01	WW1	
54-6043	RAS SCREEN 3 HOT WATER SUPPLY VALVE 2	HDW-CP01	WW1	
54-6101	RAS SCREENING COMPACTOR W3 SPRAY VALVE	HDW-CP01	WW1	
60-0401	CHLORINE CONTACT BASIN 1 INFLUENT WEIR GATE	IPS-CP01	WW1	
60-0402	CHLORINE CONTACT BASIN 2 INFLUENT WEIR GATE	IPS-CP01	WW1	
60-6011	CHLORINE CONTACT BASIN 1 W3 VALVE	IPS-CP01	WW1	
60-6012	CHLORINE CONTACT BASIN 2 W3 VALVE	IPS-CP01	WW1	
61-6001	SODIUM HYPOCHLORITE DISTRIBUTION VALVE 1	IPS-CP01	WW1	
61-6002	SODIUM HYPOCHLORITE DISTRIBUTION VALVE 2	IPS-CP01	WW1	
70-6001	INTERCHANGE REACTOR 1 TRANSFER VALVE 1	BLR-CP01	WW1	
70-6002	INTERCHANGE REACTOR 2 TRANSFER VALVE 1	BLR-CP01	WW1	
70-6011	INTERCHANGE REACTOR 1 TRANSFER VALVE 2	BLR-CP01	WW1	
70-6012	INTERCHANGE REACTOR 2 TRANSFER VALVE 2	BLR-CP01	WW1	
70-6021	INTERCHANGE REACTOR 1 SRAS FEED VALVE	BLR-CP01	WW1	
70-6022	INTERCHANGE REACTOR 2 SRAS FEED VALVE	BLR-CP01	WW1	
72-6001	AEROBIC DIGESTER 1 TRANSFER VALVE 1	BLR-CP01	WW1	
72-6002	AEROBIC DIGESTER 2 TRANSFER VALVE 1	BLR-CP01	WW1	
72-6011	AEROBIC DIGESTER 1 TRANSFER VALVE 2	BLR-CP01	WW1	
72-6012	AEROBIC DIGESTER 2 TRANSFER VALVE 2	BLR-CP01	WW1	
72-6021	AEROBIC DIGESTER 1 SRAS FEED VALVE	BLR-CP01	WW1	
72-6022	AEROBIC DIGESTER 2 SRAS FEED VALVE	BLR-CP01	WW1	
72-6201	AEROBIC DIGESTER PUMP DISCHARGE VALVE 1	BLR-CP01	WW1	
72-6211	AEROBIC DIGESTER PUMP DISCHARGE VALVE 2	BLR-CP01	WW1	
77-6101	AERATION BASIN 1 FEED AIR VALVE	BLR-CP01	WW1	
77-6102	AERATION BASIN 2 FEED AIR VALVE	BLR-CP01	WW1	
77-6103	INTERCHANGE REACTOR 1 FEED AIR VALVE	BLR-CP01	WW1	
77-6104	INTERCHANGE REACTOR 2 FEED AIR VALVE	BLR-CP01	WW1	
38-0401	MIXED LIQUOR OVERFLOW GATE 1	VLR-CP01	WW1	
38-0402	MIXED LIQUOR OVERFLOW GATE 2	VLR-CP01	WW1	

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DSGN	CS BURR						
DR	DS PARKER						
CHK	LL WOOD	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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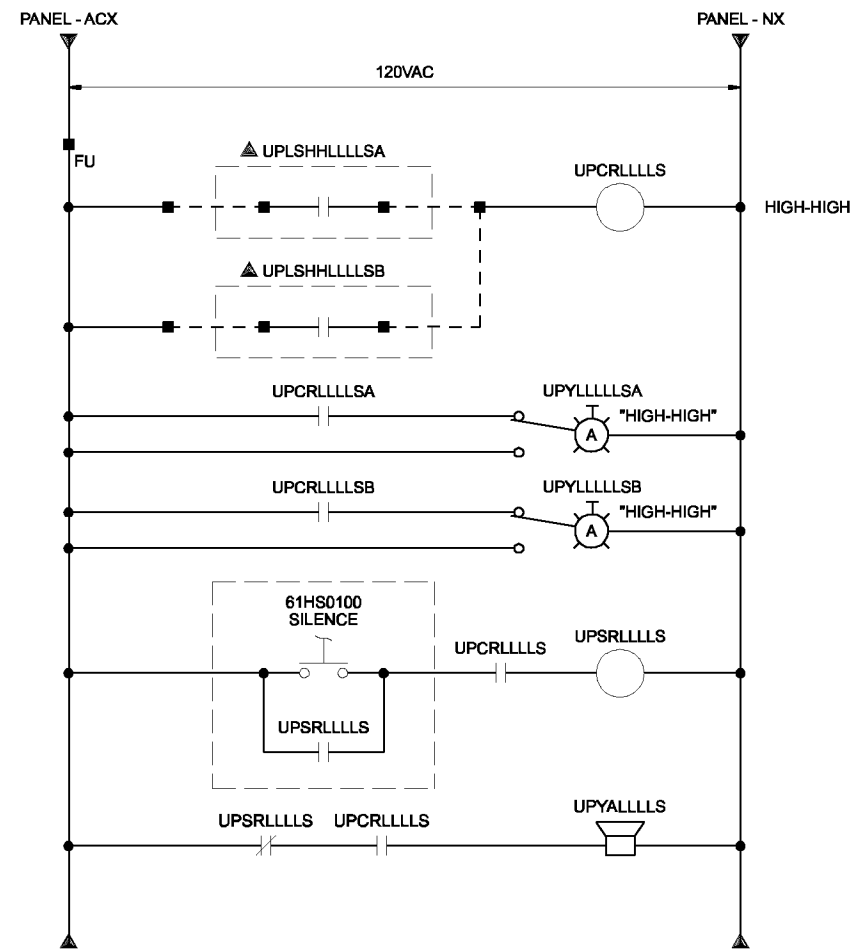
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
 OPEN/CLOSE GATE OR VALVE
 (INTEGRAL) SCHEDULE

SHEET	93
DWG	08-I-62
DATE	MAY 19 2006
PROJ	326918

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PANEL



LOOP	LOOP DESCRIPTION	PANEL
61-0100	SODIUM HYPOCHLORITE TRUCK UNLOADING PANEL	61LCP0100

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DSGN	CS BURR	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.
DR	GJ LOVE						
CHK	LL WOOD						
APVD	CW MASSIE						

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

PMH CSB



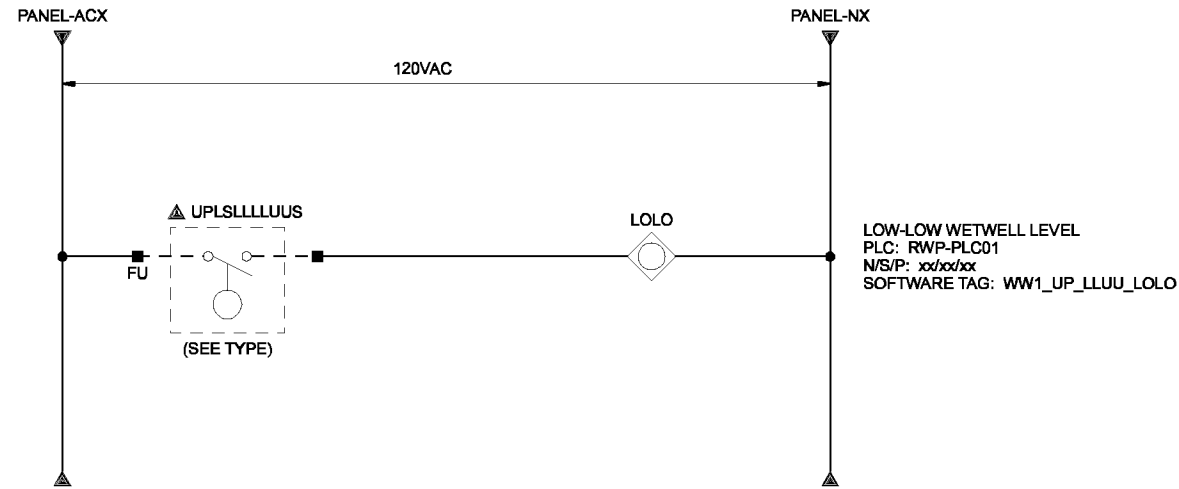
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
TRUCK UNLOADING PANEL
TYPICAL DISCRETE LOOP

SHEET	94
DWG	08-I-63
DATE	MAY 19 2006
PROJ	326918

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PANEL



LOOP	LOOP DESCRIPTION	PANEL	TYPE
20-3021	HEADWORKS INLET CHANNEL HIGH	HDW-CP01	FLOAT
54-3171	RAS SCREENS W3 SUPPLY PRESSURE HIGH	HDW-CP01	PRESSURE SWITCH
54-3181	RAS SCREEN 1 HATCH OPEN	HDW-CP01	PROXIMITY SWITCH
54-3162	RAS SCREEN 2 HATCH OPEN	HDW-CP01	PROXIMITY SWITCH
54-3163	RAS SCREEN 3 HATCH OPEN	HDW-CP01	PROXIMITY SWITCH
38-3301	MIXED LIQUOR SPLITTER BOX LEVEL HIGH	HDW-CP01	FLOAT
30-3001	TANK DRAIN PIT LEVEL LOW	VLR-CP01	FLOAT
60-3011	CHLORINE CONTACT BASIN EFFLUENT CHANNEL OVERFLOW	IPS-CP01	FLOAT
61-3021	HYPOCHLORITE CONTAINMENT AREA FLOOD SWITCH	IPS-CP01	FLOAT
10-3101	DRY PIT AREA FLOOD	IPS-CP01	FLOAT
77-3031	AEROBIC DIGESTER BLOWER 1 INLET DIFFERENTIAL	BLR-CP01	DIFFERENTIAL SWITCH
77-3032	AEROBIC DIGESTER BLOWER 2 INLET DIFFERENTIAL	BLR-CP01	DIFFERENTIAL SWITCH
77-3131	INTERCHANGE REACTOR BLOWER 1 INLET DIFFERENTIAL	BLR-CP01	DIFFERENTIAL SWITCH
77-3132	INTERCHANGE REACTOR BLOWER 2 INLET DIFFERENTIAL	BLR-CP01	DIFFERENTIAL SWITCH
77-3051	AEROBIC DIGESTER BLOWER 1 DISCHARGE PRESSURE	BLR-CP01	PRESSURE SWITCH
77-3052	AEROBIC DIGESTER BLOWER 2 DISCHARGE PRESSURE	BLR-CP01	PRESSURE SWITCH
77-3151	INTERCHANGE REACTOR BLOWER 1 DISCHARGE PRESSURE	BLR-CP01	PRESSURE SWITCH
77-3152	INTERCHANGE REACTOR BLOWER 2 DISCHARGE PRESSURE	BLR-CP01	PRESSURE SWITCH
77-3041	AEROBIC DIGESTER BLOWER 1 DISCHARGE TEMPERATURE	BLR-CP01	TEMPERATURE SWITCH
77-3042	AEROBIC DIGESTER BLOWER 2 DISCHARGE TEMPERATURE	BLR-CP01	TEMPERATURE SWITCH
77-3141	INTERCHANGE REACTOR BLOWER 1 DISCHARGE TEMPERATURE	BLR-CP01	TEMPERATURE SWITCH
77-3142	INTERCHANGE REACTOR BLOWER 2 DISCHARGE TEMPERATURE	BLR-CP01	TEMPERATURE SWITCH
45-3101	SECONDARY CLARIFIER 1 SCUM TROUGH PROXIMITY	BLR-CP01	PROXIMITY SENSOR
45-3102	SECONDARY CLARIFIER 2 SCUM TROUGH PROXIMITY	BLR-CP01	PROXIMITY SENSOR
45-3103	SECONDARY CLARIFIER 3 SCUM TROUGH PROXIMITY	BLR-CP01	PROXIMITY SENSOR

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

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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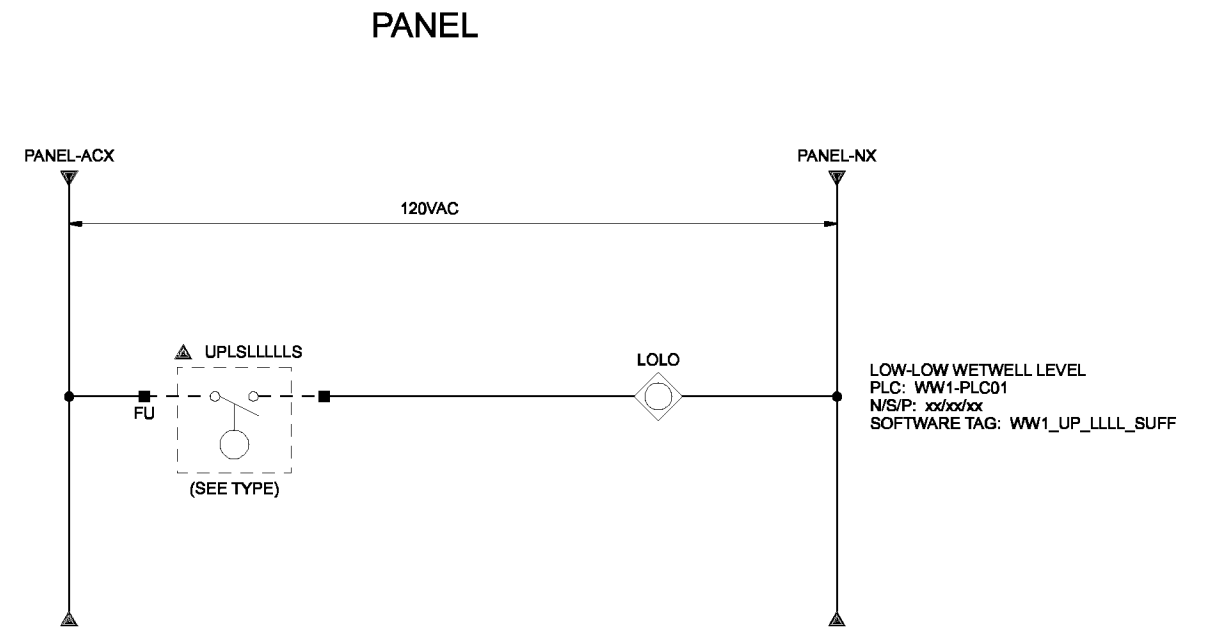
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
DISCRETE FIELD INPUT
TYPICAL LOOP

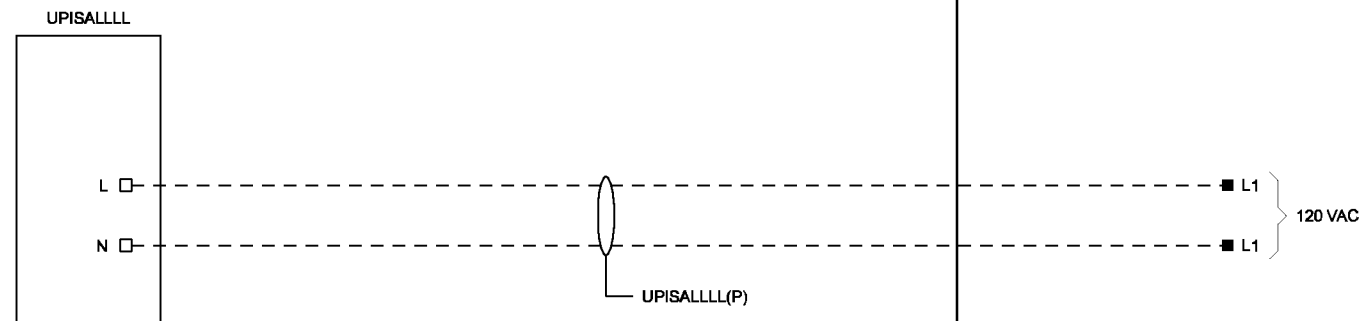
SHEET	95
DWG	08-I-64
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	ISA	TYPE	SUFF
54-3111	RAS SCREENINGS CONVEYOR	HDW-CP01	LSH	TUNING FORK	HIGH
61-3001	SODIUM HYPOCHLORITE STORAGE TANK 1	61LCP0100	LSHH	TUNING FORK	HI-HI
61-3002	SODIUM HYPOCHLORITE STORAGE TANK 2	61LCP0100	LSHH	TUNING FORK	HI-HI
54-0201	OIL LUBRICATION PUMP 1	HDW-CP01	LSHH	TUNING FORK	HI-HI
54-0202	OIL LUBRICATION PUMP 2	HDW-CP01	LSHH	TUNING FORK	HI-HI
54-0203	OIL LUBRICATION PUMP 3	HDW-CP01	LSHH	TUNING FORK	HI-HI



TJB



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DSGN	CS BURR	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.
DR	DS PARKER						
CHK	LL WOOD						
APVD	CW MASSIE						

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

PMH CSB

CH2MHILL **CAROLLO**
engineers

CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

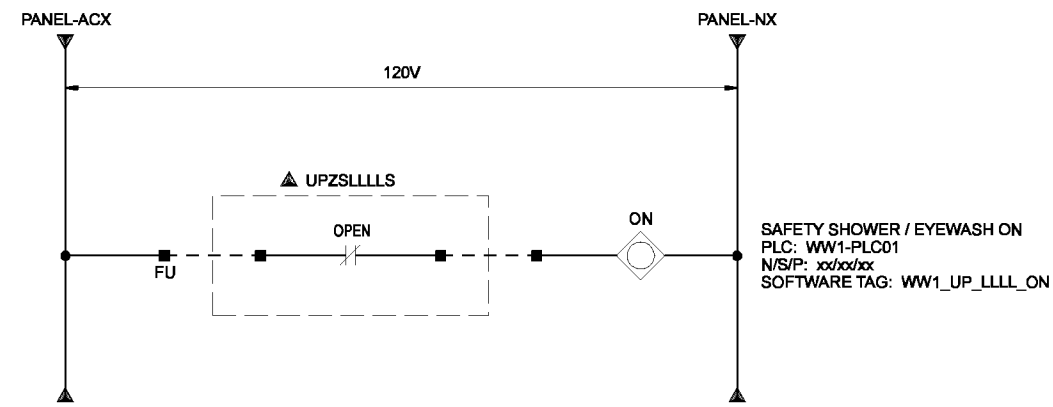
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
DISCRETE FIELD INPUT
TYPICAL LOOP (FIELD POWERED)

SHEET	96
DWG	08-I-65
DATE	MAY 19 2006
PROJ	326918

FILENAME: 08ni065d_326918.dgn PLOT DATE: 3/8/2010 PLOT TIME: 2:51:19 PM

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PANEL



LOOP	LOOP DESCRIPTION	PANEL
24-3141	HOPPER AREA SAFETY SHOWER	HDW-CP01
95-3001	CONTROL BUILDING LAB SAFETY SHOWER	CTL-CP01
61-3301	HYPOCHLORITE STORAGE SAFETY SHOWER 1	IPS-CP01
61-3302	HYPOCHLORITE STORAGE SAFETY SHOWER 2	IPS-CP01
61-3303	HYPOCHLORITE FEED SAFETY SHOWER	IPS-CP01

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

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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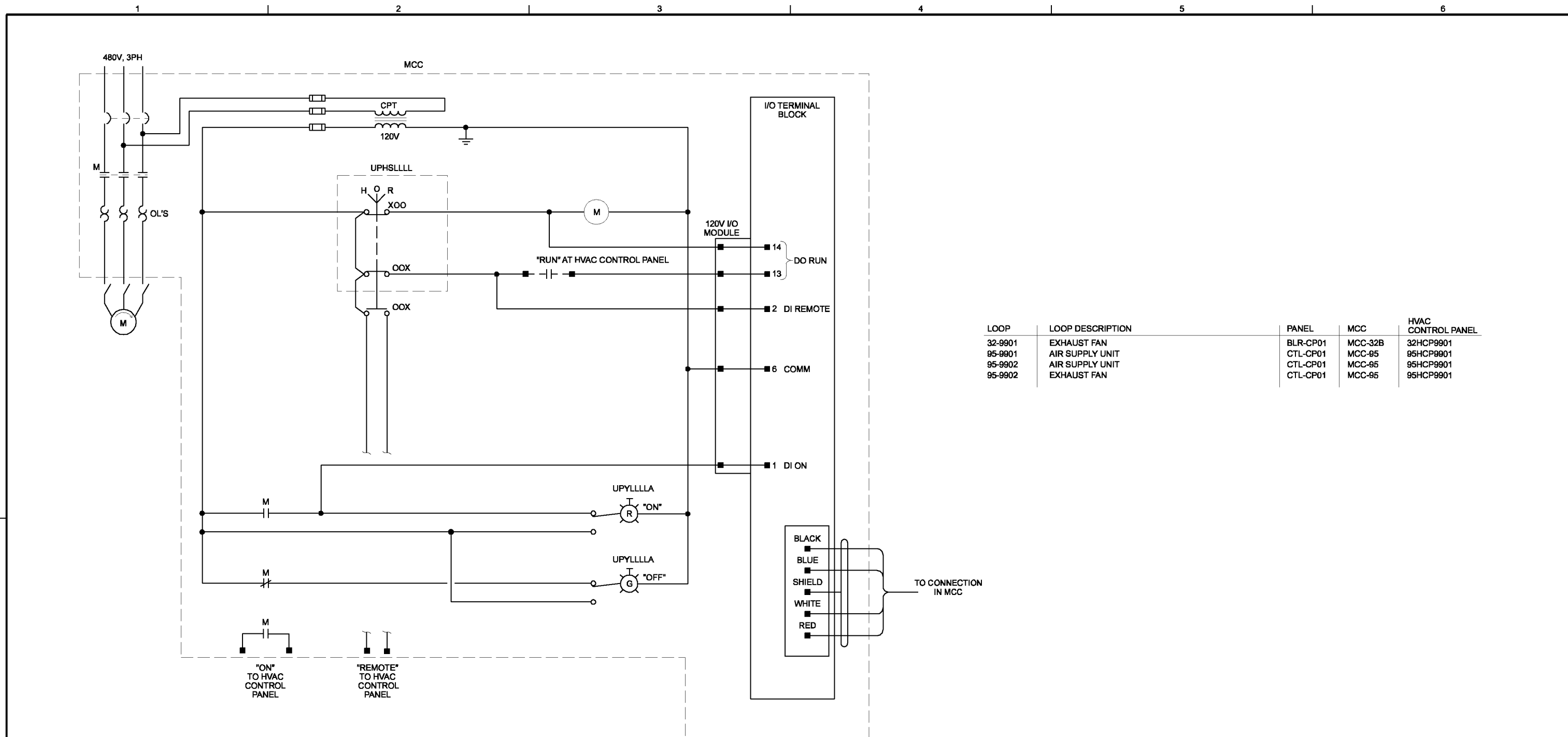


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
SAFETY SHOWER AND EYEWASH TYPICAL
DISCRETE LOOP

SHEET	97
DWG	08-I-66
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	MCC	HVAC CONTROL PANEL
32-9901	EXHAUST FAN	BLR-CP01	MCC-32B	32HCP9901
95-9901	AIR SUPPLY UNIT	CTL-CP01	MCC-95	95HCP9901
95-9902	AIR SUPPLY UNIT	CTL-CP01	MCC-95	95HCP9901
95-9902	EXHAUST FAN	CTL-CP01	MCC-95	95HCP9901

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DSGN	KL MAESTRI								
DR	GJ LOVE								
CHK	LL WOOD/GS BURR	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
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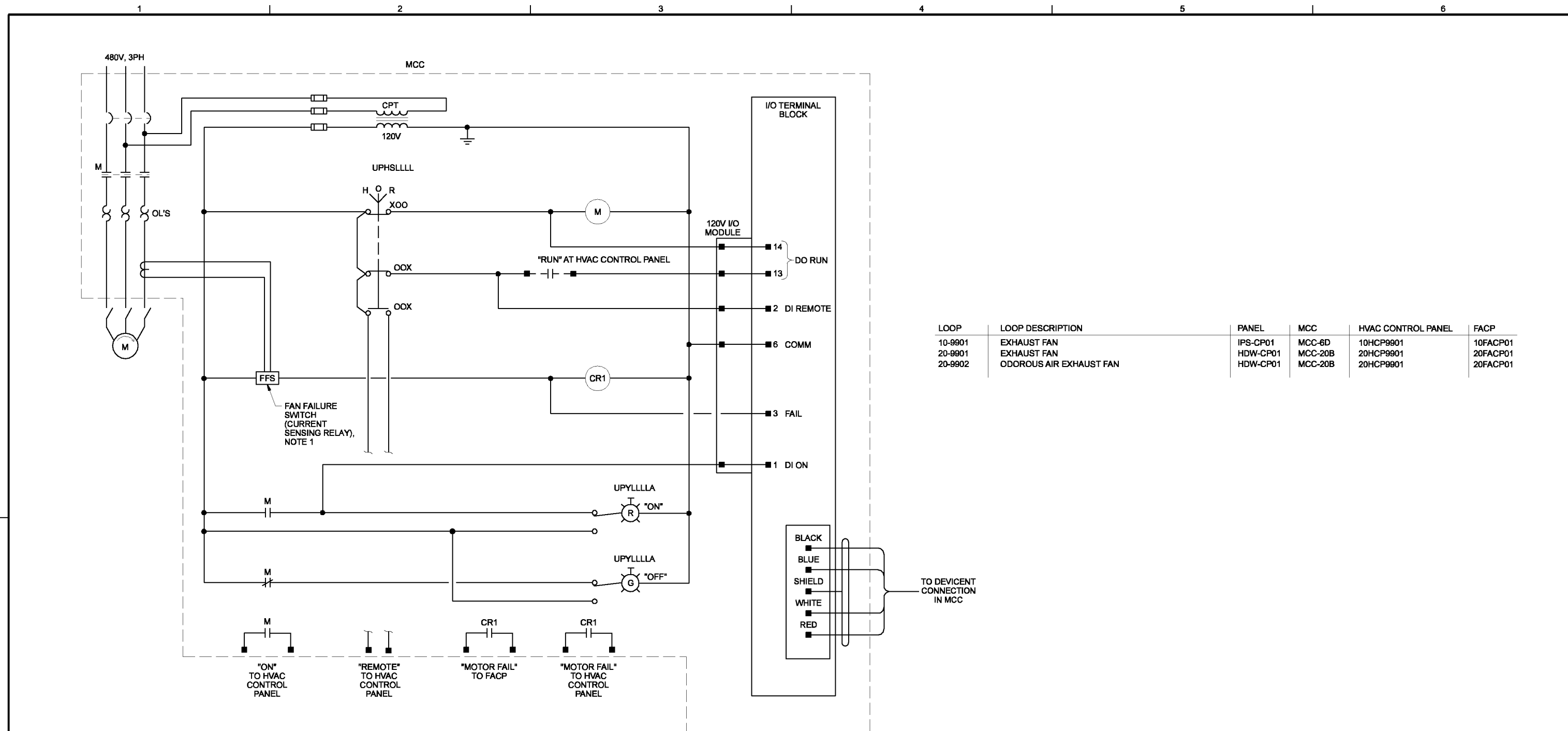


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
HVAC CONSTANT SPEED MOTOR,
REMOTE HOR TYPICAL

SHEET	98
DWG	08-1-67
DATE	MAY 19 2006
PROJ	326918

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NOTES:

1. PROVIDE UNDERCURRENT SENSING RELAYS & CTS TO DETECT UNDERCURRENT WHEN UNIT IS IN OPERATION. SET RELAYS PER HVAC MANUFACTURER'S RECOMMENDATION. MANUFACTURER: SQUARE D MODEL: RM3JA1, OR EQUAL.

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DSGN	KL MAESTRI								
DR	GJ LOVE								
CHK	LL WOOD/GS BURR	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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

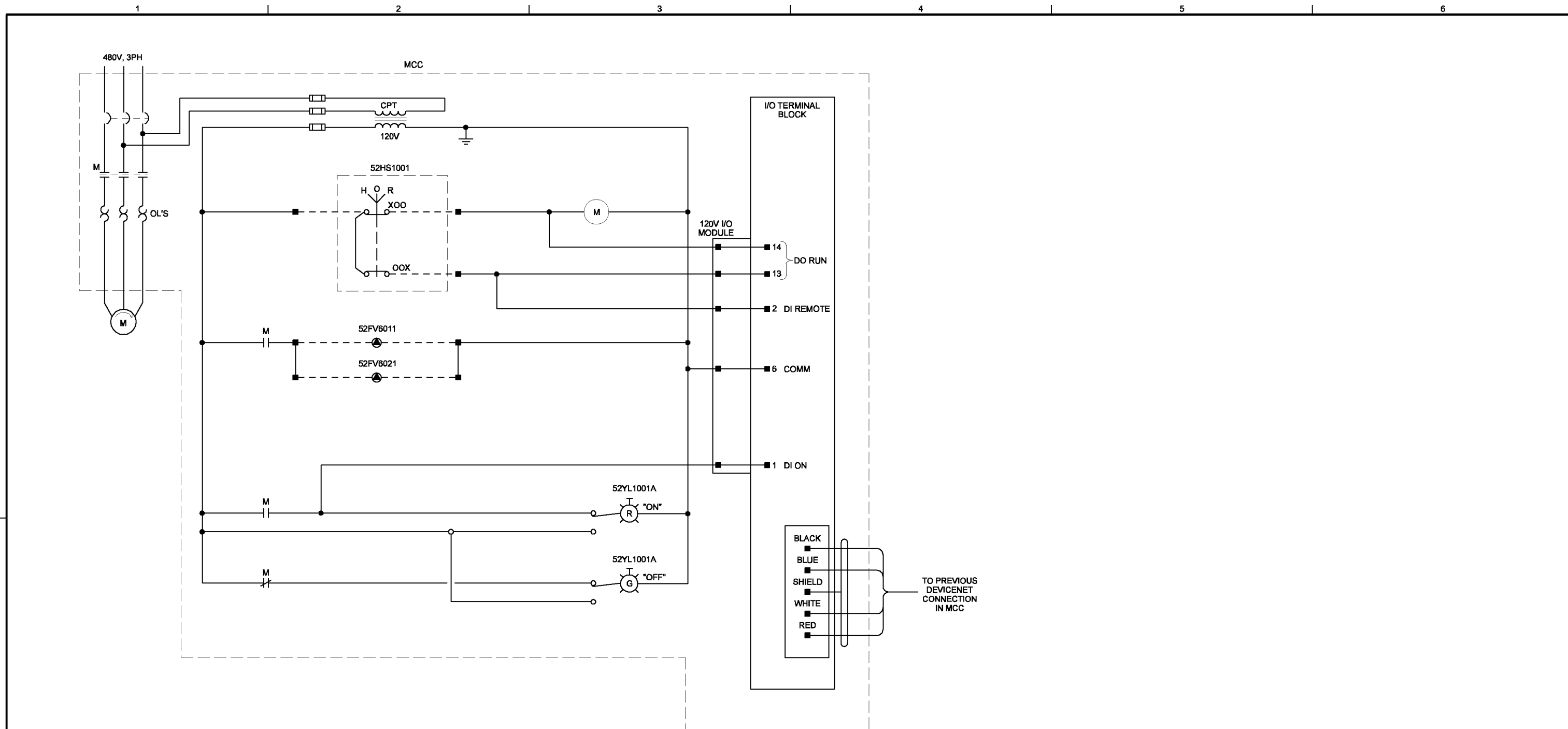


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
HVAC WITH HOR AND
CURRENT SENSOR, TYPICAL

SHEET	99
DWG	08-I-68
DATE	MAY 19 2006
PROJ	326918

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DSGN	KL MAESTRI																			
DR	JE HAMNER																			
CHK	LL WOOD/GS BURR	01/20/10																		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	PMH	CSB												

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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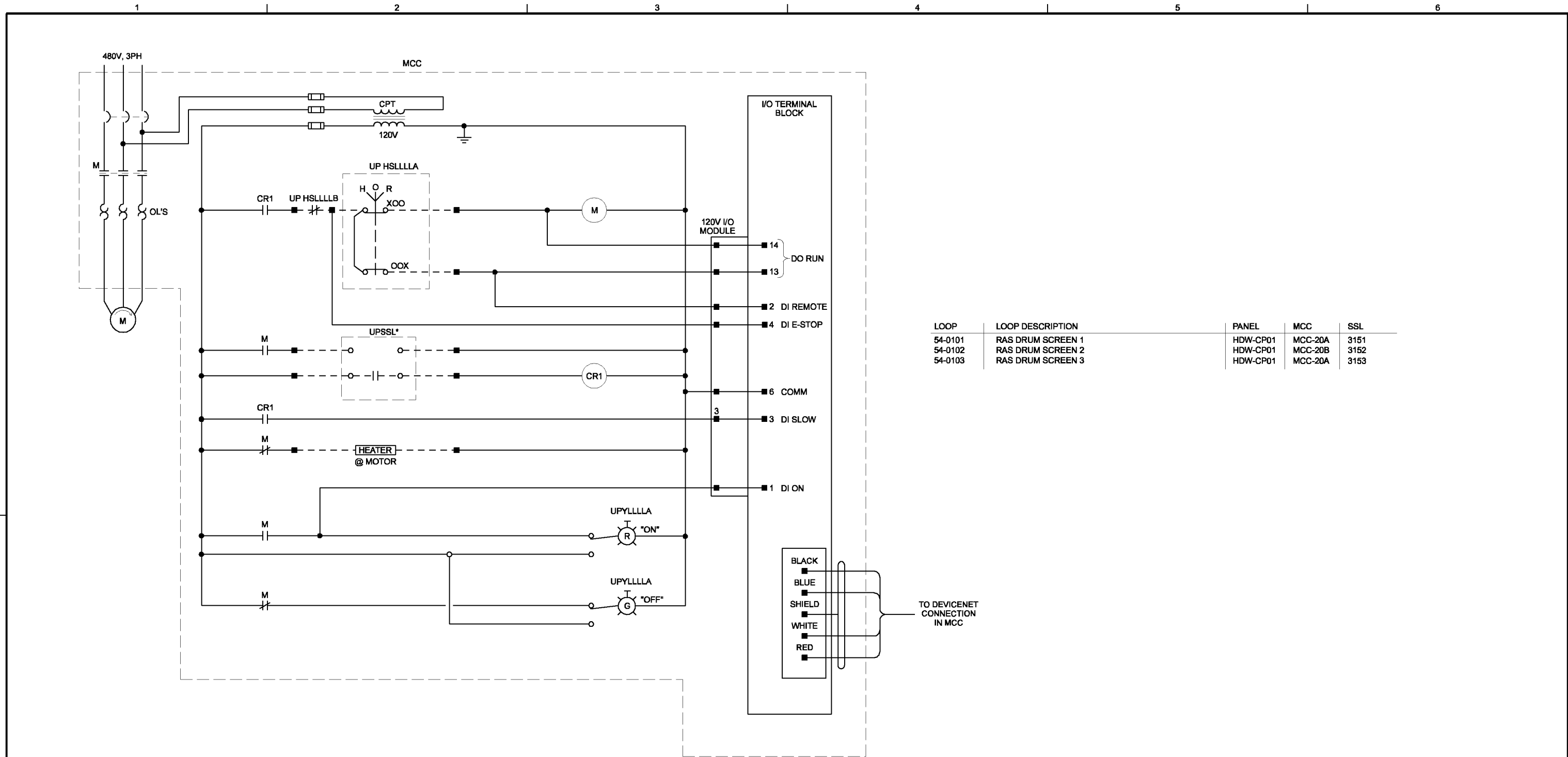


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 WIRING DIAGRAM
 RAS GRIT PUMP

SHEET	100
DWG	08-I-69
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	MCC	SSL
54-0101	RAS DRUM SCREEN 1	HDW-CP01	MCC-20A	3151
54-0102	RAS DRUM SCREEN 2	HDW-CP01	MCC-20B	3152
54-0103	RAS DRUM SCREEN 3	HDW-CP01	MCC-20A	3153

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DSGN	KL MAESTRI								
DR	JE HAMNER								
CHK	LL WOOD/GS BURR	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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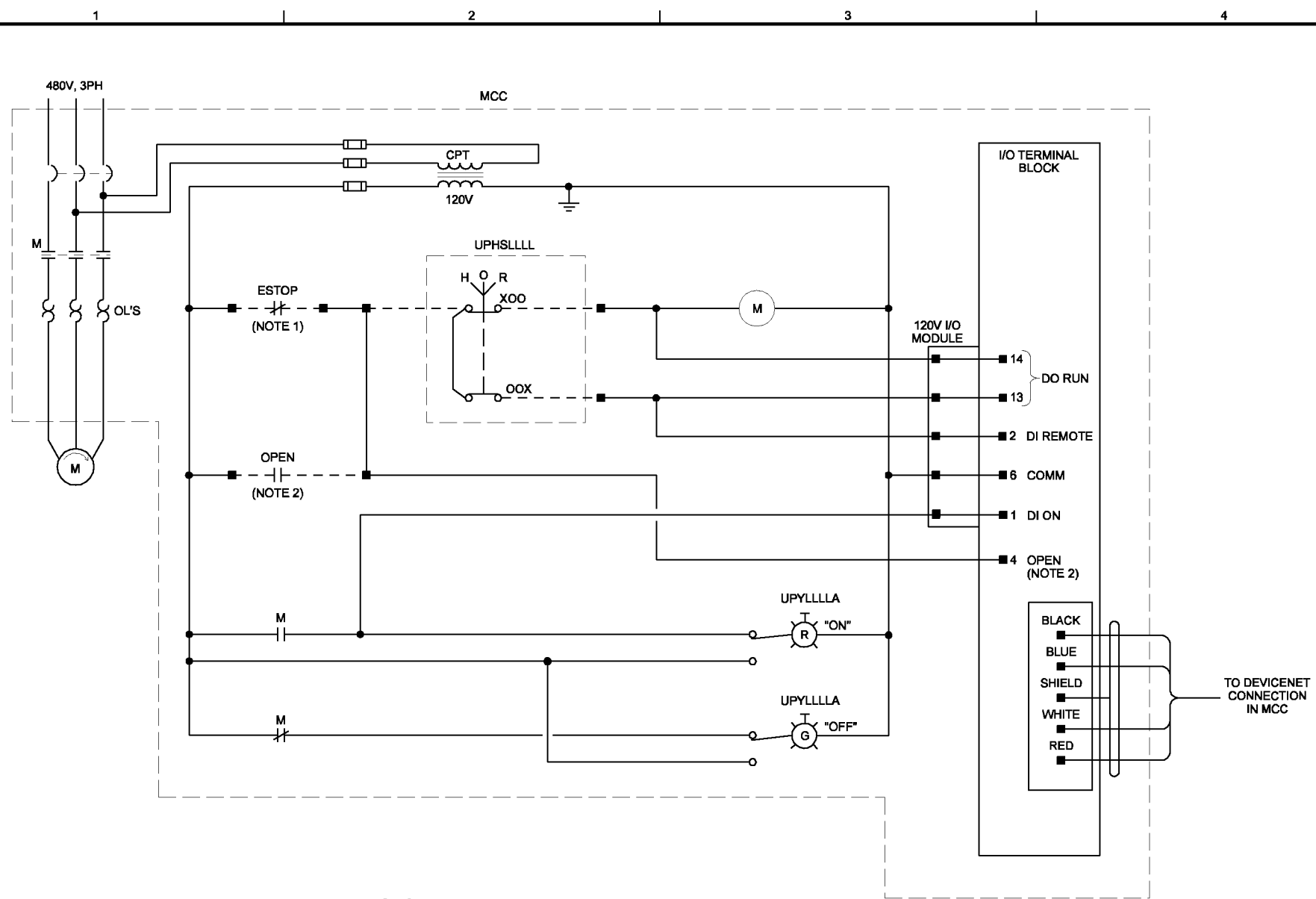


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
RAS DRUM SCREEN
TYPICAL

SHEET	101
DWG	08-1-70
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
1. ESTOP FOR INFLUENT SCREEN CLEANING BRUSH MOTORS ONLY.
 2. INLET VALVE OPEN STATUS FOR GRIT PUMPS ONLY.

LOOP	LOOP DESCRIPTION	PANEL	MCC
20-0301	INFLUENT SCREEN 1 CLEANING BRUSH	HDW-CP01	MCC-20A
20-0302	INFLUENT SCREEN 2 CLEANING BRUSH	HDW-CP01	MCC-20B
20-0303	INFLUENT SCREEN 3 CLEANING BRUSH	HDW-CP01	MCC-20A
20-1001	GRIT PUMP 1	HDW-CP01	MCC-20A
20-1002	GRIT PUMP 2	HDW-CP01	MCC-20B
20-1003	GRIT PUMP 3	HDW-CP01	MCC-20A
20-1004	GRIT PUMP 4	HDW-CP01	MCC-20A
20-1005	GRIT PUMP 5	HDW-CP01	MCC-20B
07-0101	FLOW CONTROL STRUCTURE SAMPLING PUMP 1	IPS-CP01	MCC-6C
07-0102	FLOW CONTROL STRUCTURE SAMPLING PUMP 2	IPS-CP01	MCC-6D
60-1101	CHLORINE CONTACT BASIN SAMPLING PUMP 1	IPS-CP01	MCC-6C
60-1102	CHLORINE CONTACT BASIN SAMPLING PUMP 2	IPS-CP01	MCC-6D

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NO.	DATE	REVISION	BY	APVD

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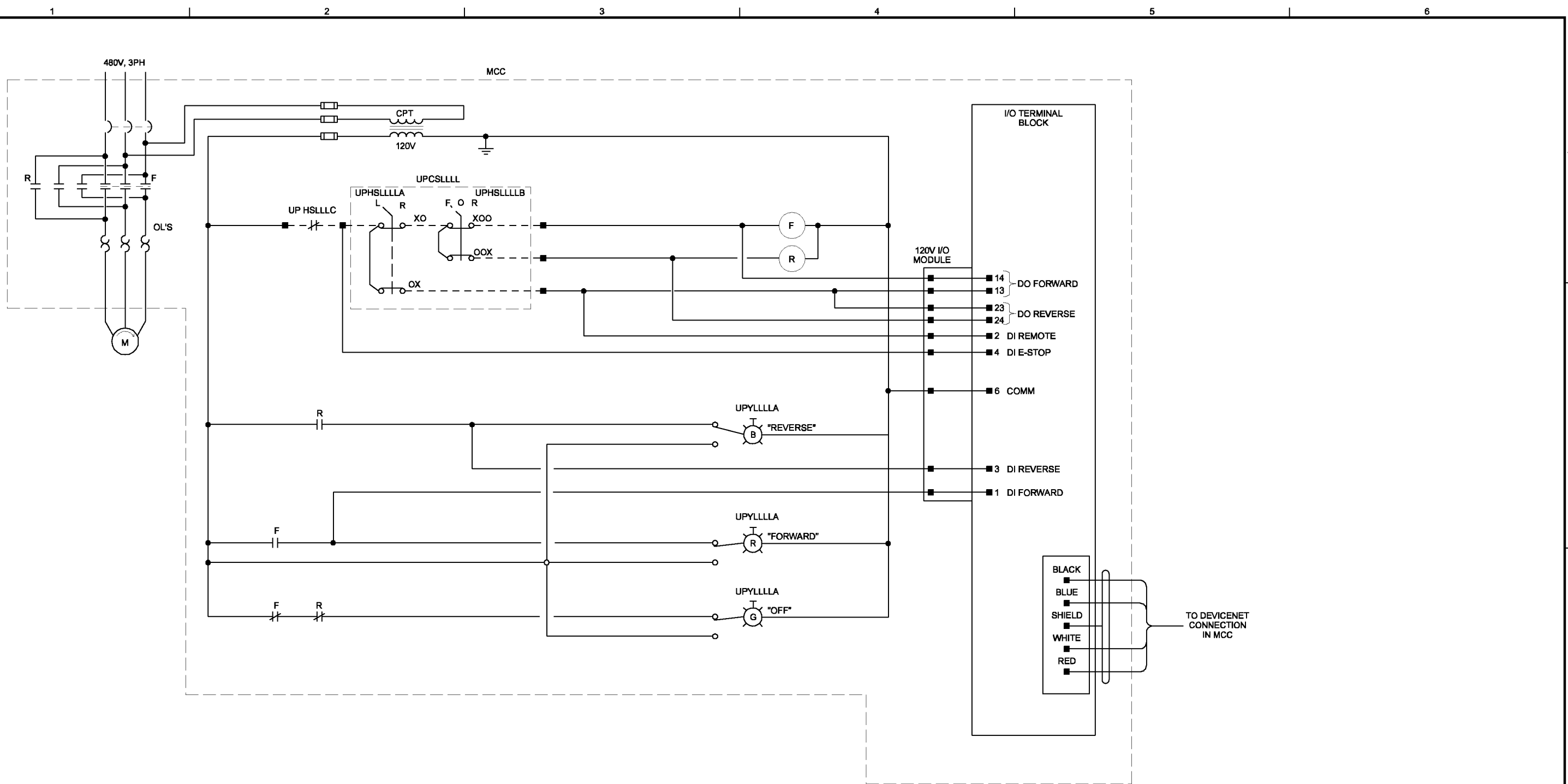


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
 CONSTANT SPEED MOTOR,
 REMOTE HOR TYPICAL

SHEET	102
DWG	08-I-71
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	MCC
22-0101	SCREENINGS WASHER 1	HDW-CP01	MCC-20A
22-0102	SCREENINGS WASHER 2	HDW-CP01	MCC-20B
22-0103	SCREENINGS WASHER 3	HDW-CP01	MCC-20A

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NO.	DATE	REVISION	BY	APVD
	01/20/10	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	PMH CSB	APVD

VERIFY SCALE
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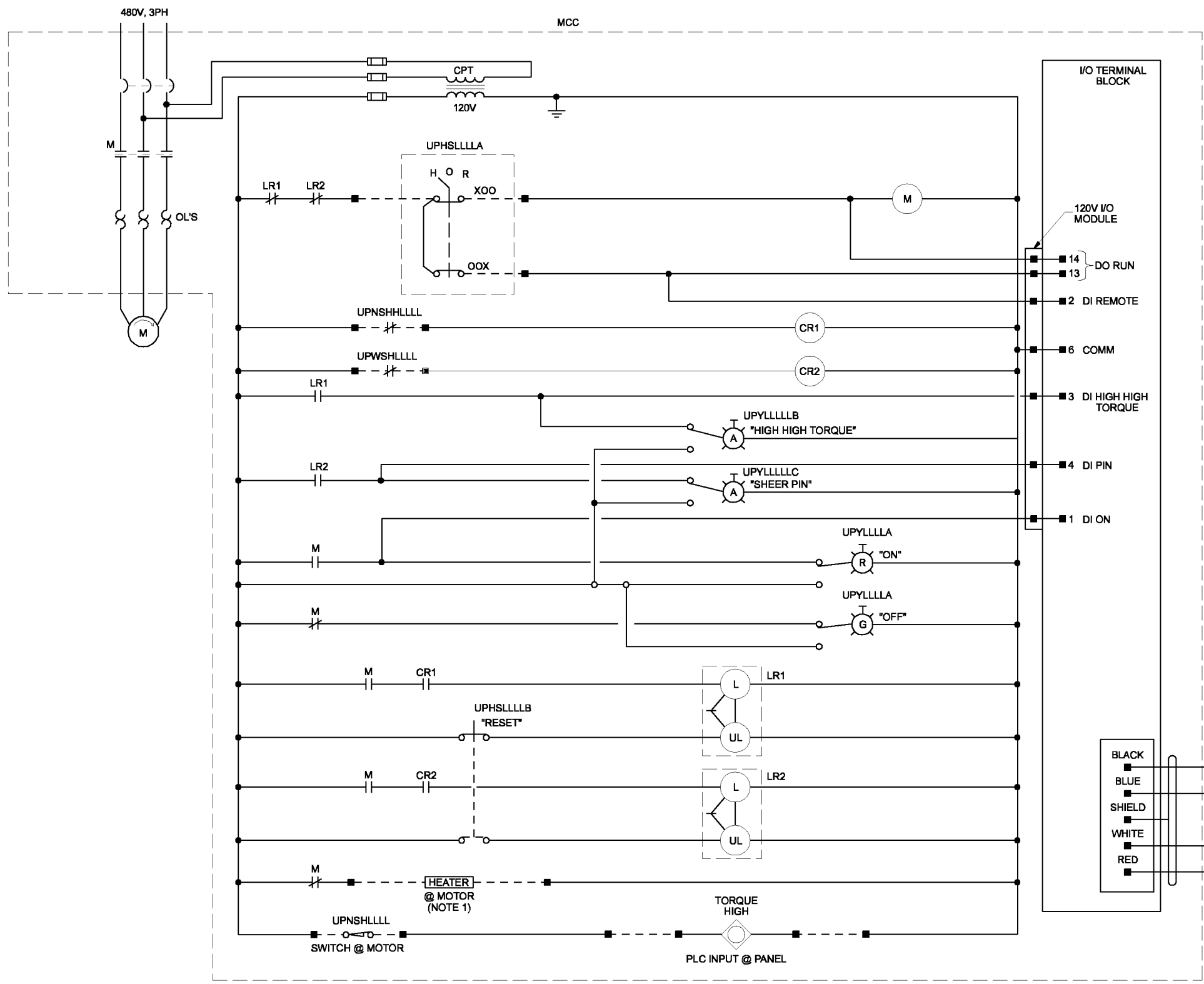


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
SCREENINGS WASHER
 TYPICAL

SHEET	103
DWG	08-1-72
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	MCC
20-0701	VORTEX GRIT SEPARATOR MECHANISM 1	HDW-CP01	MCC-20A
20-0702	VORTEX GRIT SEPARATOR MECHANISM 2	HDW-CP01	MCC-20B
20-0703	VORTEX GRIT SEPARATOR MECHANISM 3	HDW-CP01	MCC-20A
45-0101	SECONDARY CLARIFIER MECHANISM 1	HDW-CP01	MCC-20A
45-0102	SECONDARY CLARIFIER MECHANISM 2	HDW-CP01	MCC-20B
45-0103	SECONDARY CLARIFIER MECHANISM 3	HDW-CP01	MCC-20A

NOTES:
 1. FOR VORTEX GRIT SEPARATOR MECHANISMS ONLY.

TORQUE HIGH
 PLC = WW1-PLC01
 N/S/P = XX/XX/XX
 SOFTWARE TAG: WW1_UP_LLLL_HITORQUE

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 19, 2006 BY CHRISTOPHER S. BURR, STATE OF OREGON, P.E. NO. 49633PE

DSGN	KL MAESTRI	NO.	DATE	REVISION	BY	APVD
DR	GJ LOVE					
CHK	LL WOOD/GS BURR					
APVD	CW MASSIE					

VERIFY SCALE
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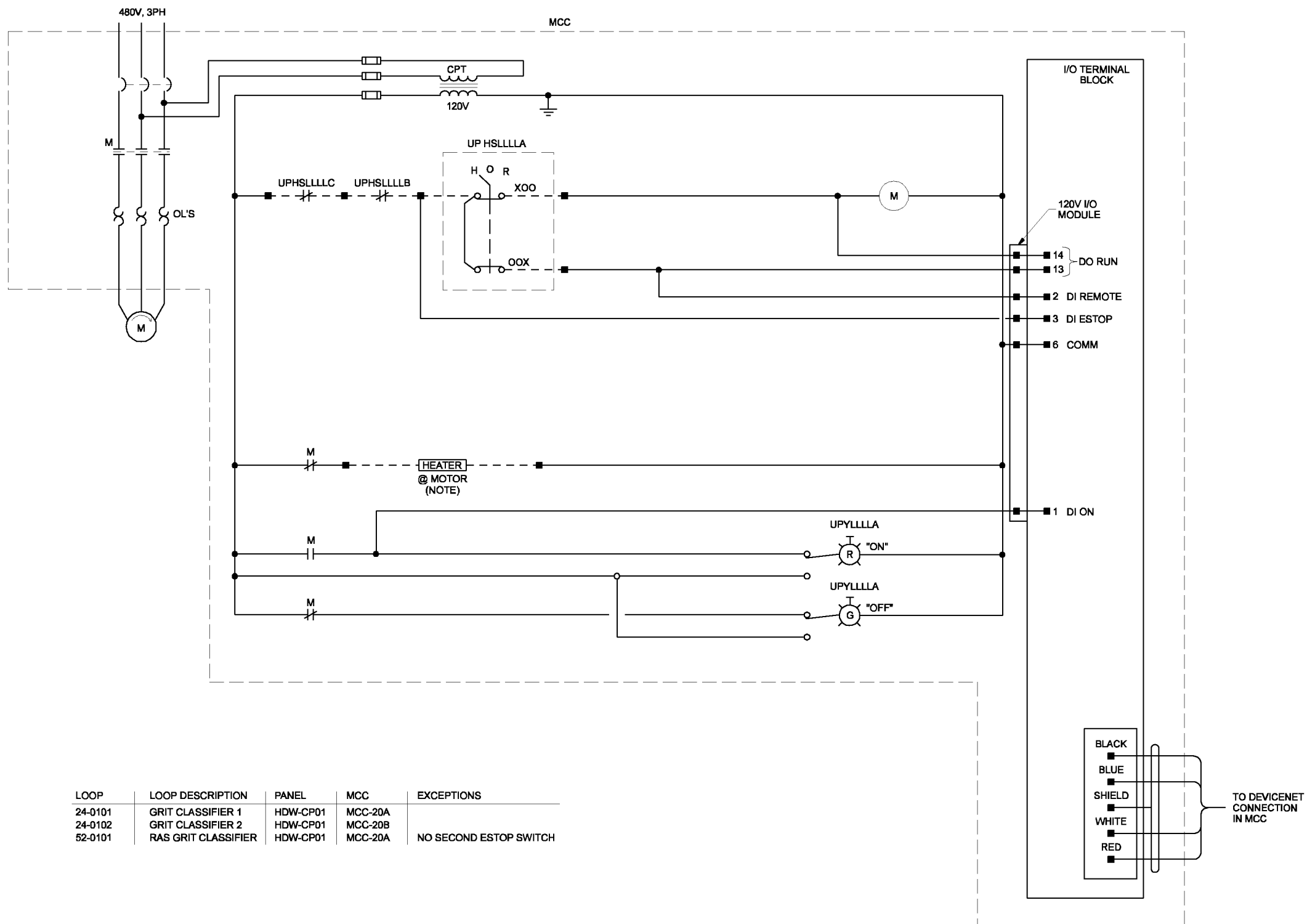


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 WIRING DIAGRAM
 VORTEX GRIT SEPARATOR MECHANISM AND
 SECONDARY CLARIFIER MECHANISM, TYPICAL

SHEET	104
DWG	08-1-73
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	MCC	EXCEPTIONS
24-0101	GRIT CLASSIFIER 1	HDW-CP01	MCC-20A	
24-0102	GRIT CLASSIFIER 2	HDW-CP01	MCC-20B	
52-0101	RAS GRIT CLASSIFIER	HDW-CP01	MCC-20A	NO SECOND ESTOP SWITCH

NOTE:
FOR RAS GRIT CLASSIFIER ONLY.

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DSGN	KL MAESTRI									
DR	GJ LOVE									
CHK	LL WOOD/GS BURR	01/20/10								
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD				

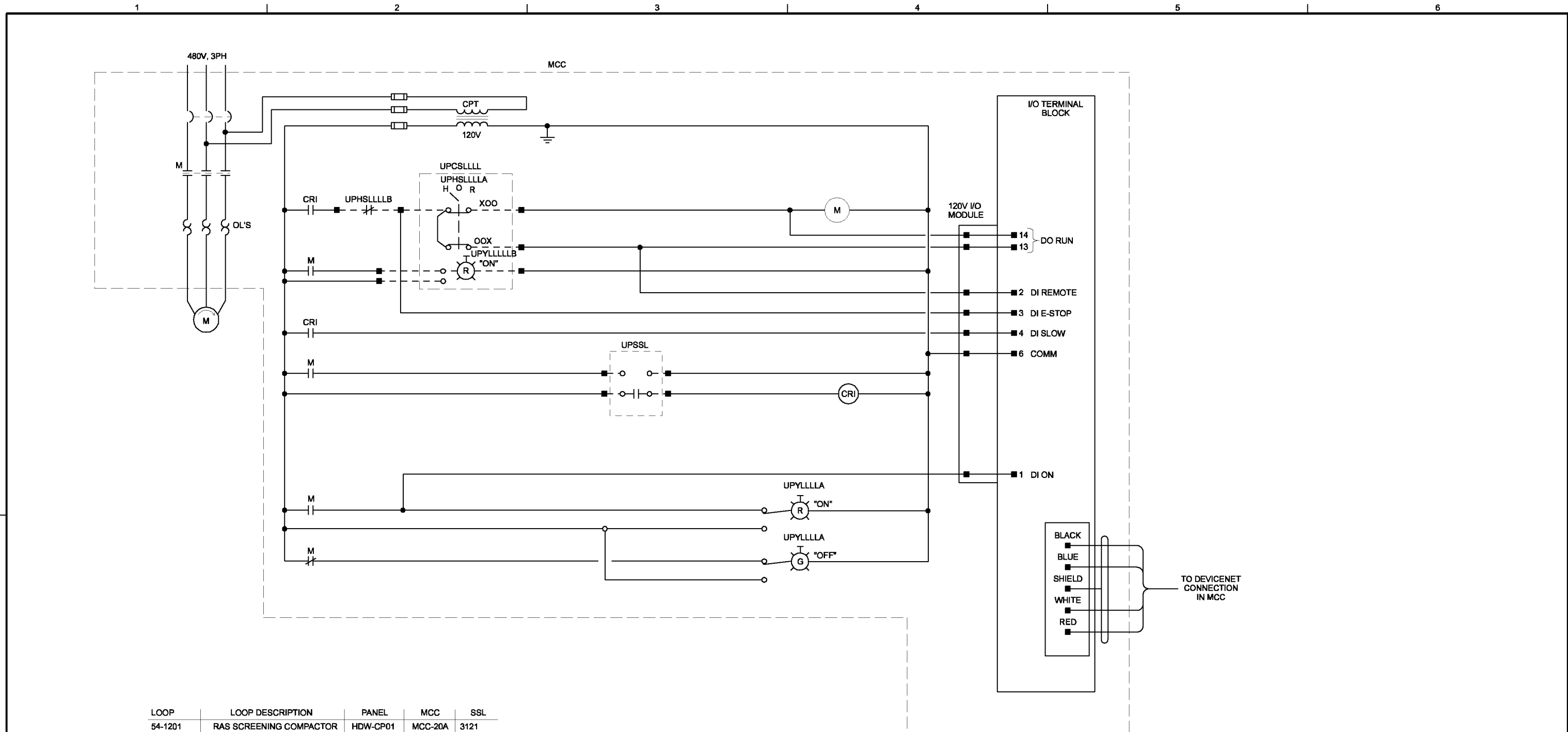
VERIFY SCALE
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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
CLASSIFIER AND GRIT CLASSIFIER, TYPICAL

SHEET	105
DWG	08-1-74
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	MCC	SSL
54-1201	RAS SCREENING COMPACTOR	HDW-CP01	MCC-20A	3121

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 19, 2006 BY CHRISTOPHER S. BURR, STATE OF OREGON, P.E. NO. 49633PE

DSGN	KL MAESTRI								
DR	GJ LOVE								
CHK	LL WOOD/GS BURR	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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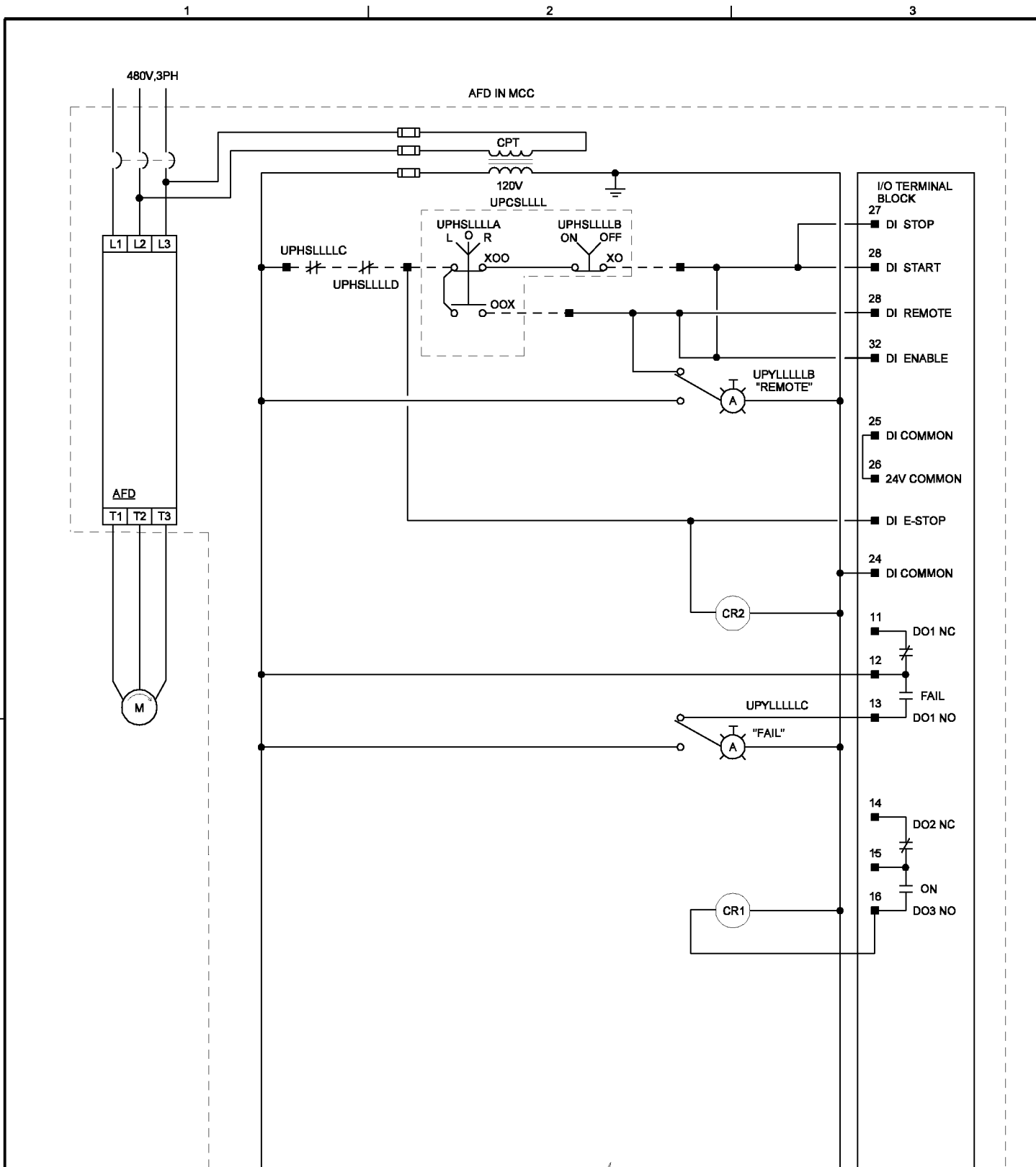


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

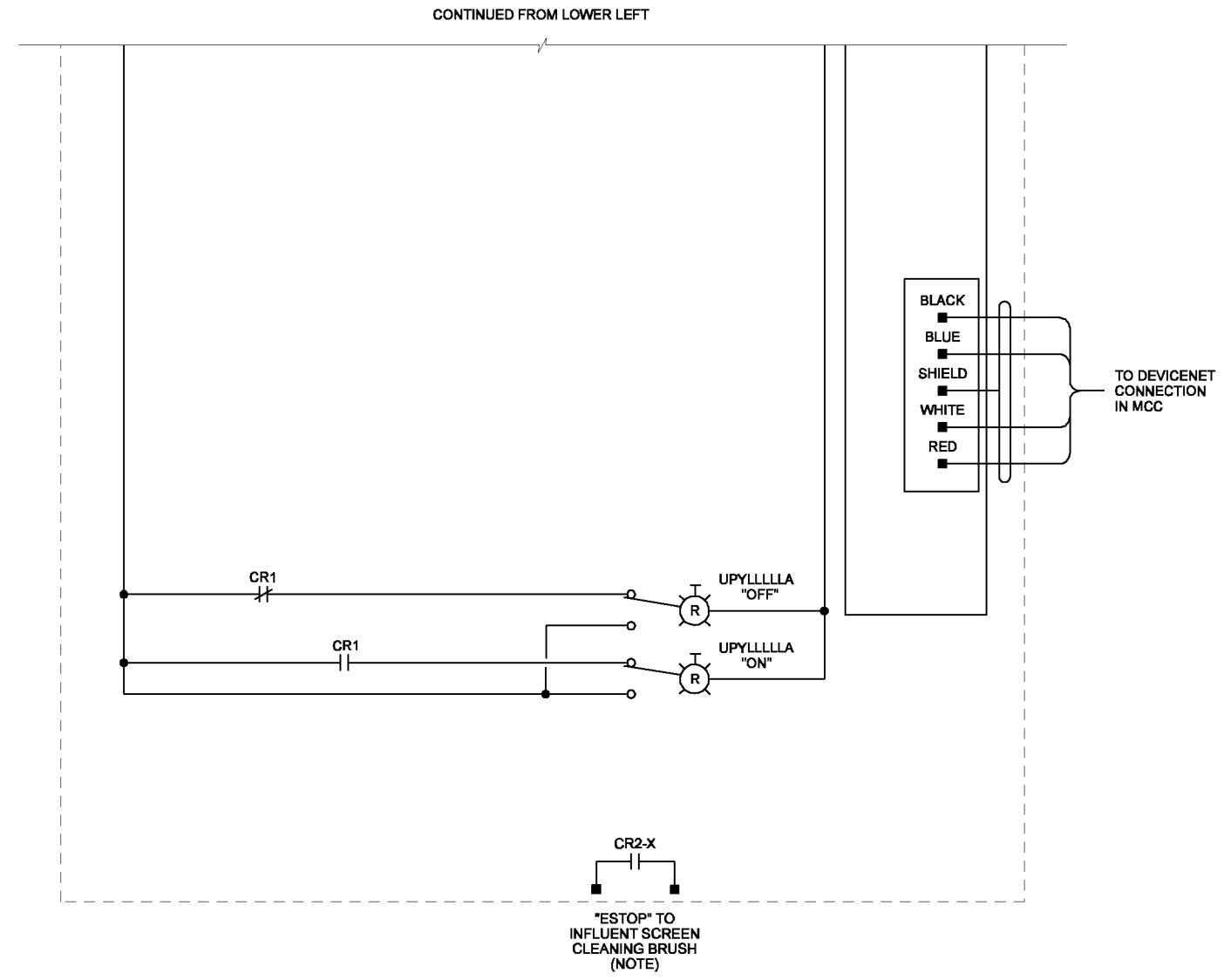
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
RAS SCREENINGS COMPACTOR

SHEET	106
DWG	08-1-75
DATE	MAY 19 2006
PROJ	326918

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CONTINUED UPPER RIGHT



LOOP	LOOP DESCRIPTION	PANEL	MCC	X
20-0201	INFLUENT SCREEN 1	HDW-CP01	MCC-20A	20-0301
20-0202	INFLUENT SCREEN 2	HDW-CP01	MCC-20B	20-0302
20-0203	INFLUENT SCREEN 3	HDW-CP01	MCC-20A	20-0303

NOTE:
WIRING BETWEEN SCREEN AND CLEANING BRUSH SHALL BE INTEGRAL TO MCC AND PROVIDED BY MCC SUPPLIER.

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NO.	DATE	REVISION	BY	APVD
	01/20/10		PMH	CSB
NO.	DATE	REVISION	BY	APVD

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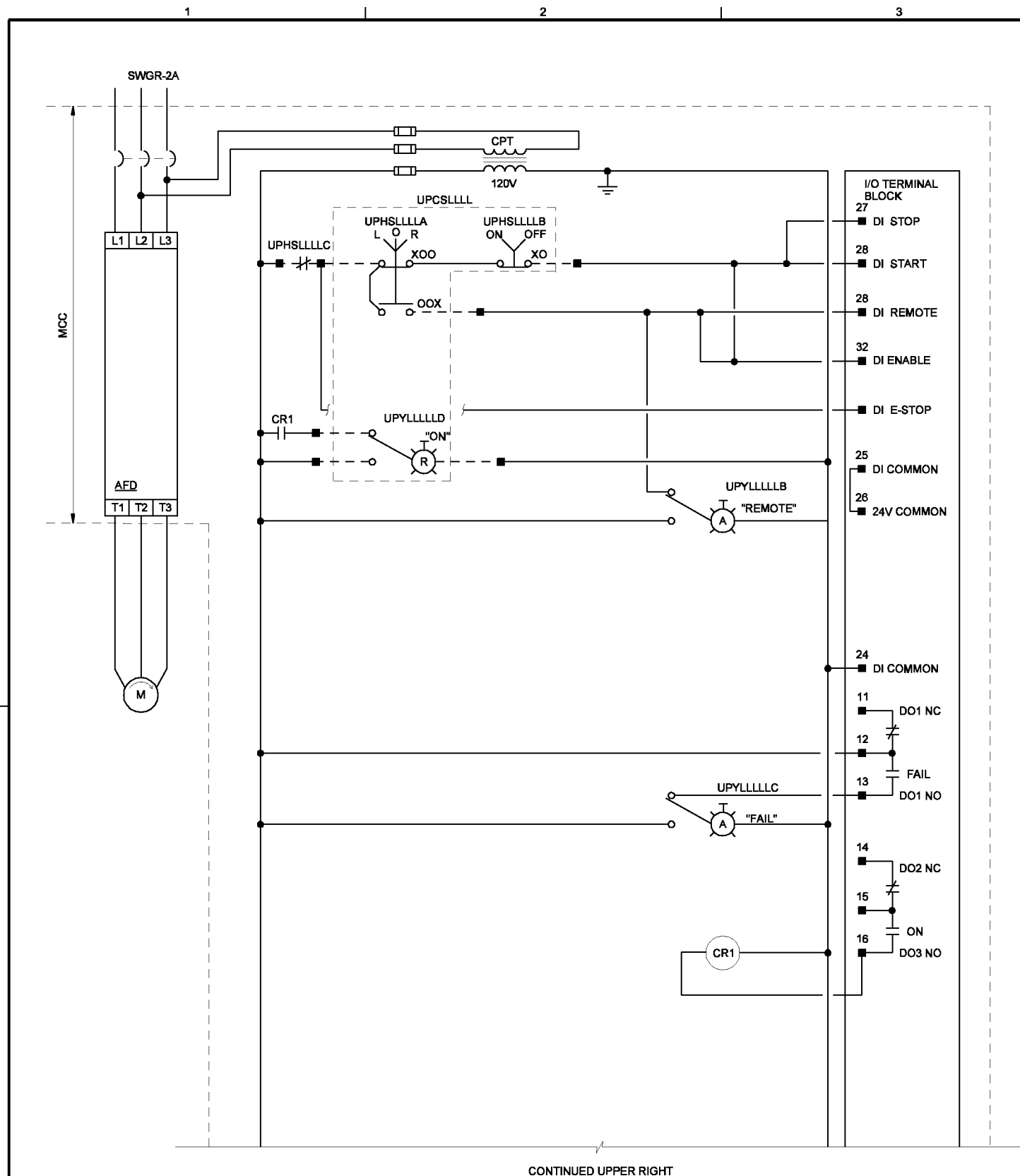


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

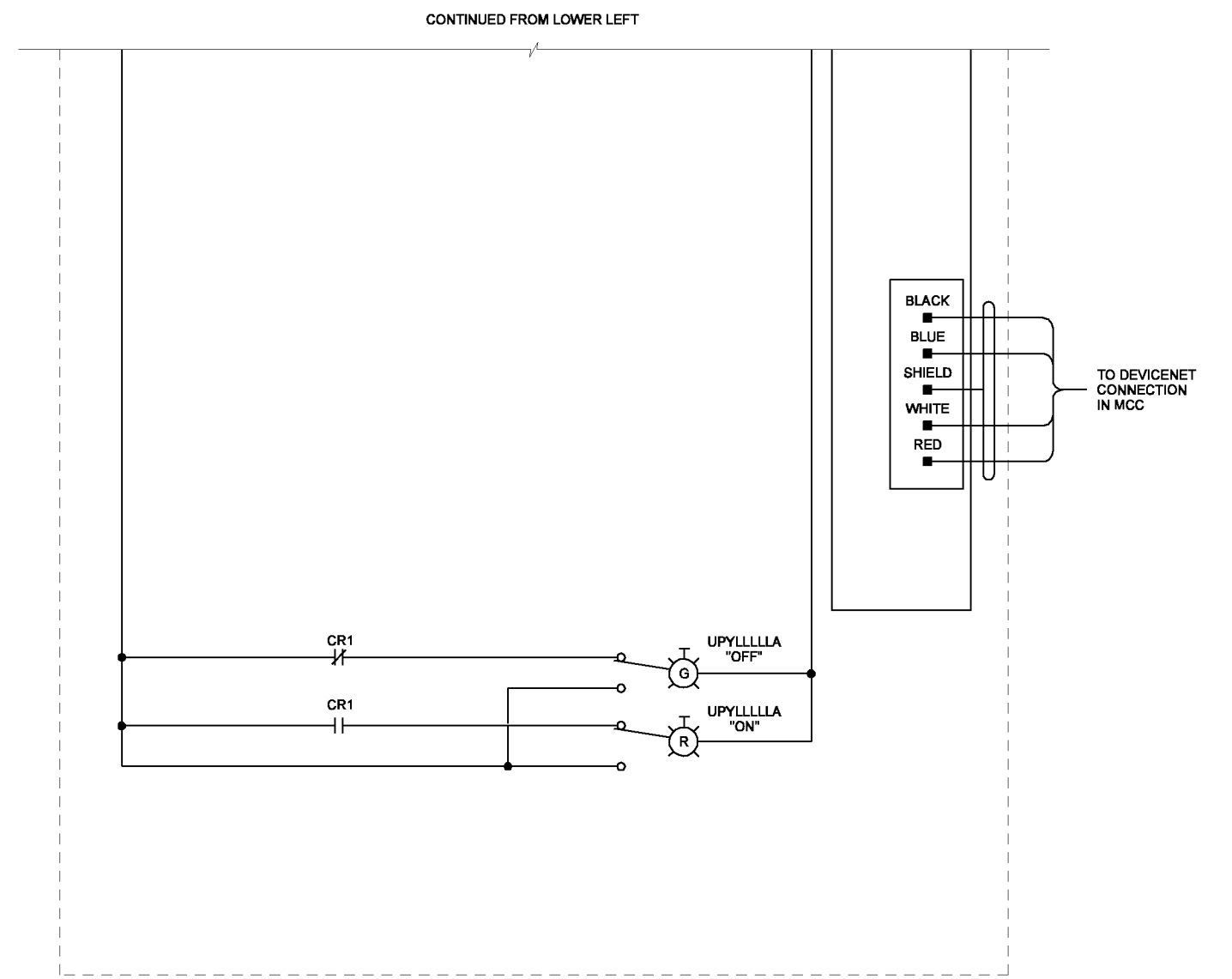
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
INFLUENT SCREEN, TYPICAL

SHEET	107
DWG	08-I-76
DATE	MAY 19 2006
PROJ	326918

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CONTINUED UPPER RIGHT



CONTINUED FROM LOWER LEFT

LOOP	LOOP DESCRIPTION	PANEL	MCC
22-0201	SCREENINGS COMPACTOR 1	HDW-CP01	MCC-20A
22-0202	SCREENINGS COMPACTOR 2	HDW-CP01	MCC-20B
22-0203	SCREENINGS COMPACTOR 3	HDW-CP01	MCC-20A

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DSGN	KL MAESTRI	NO.	DATE	REVISION	BY	APVD	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	GJ LOVE						
CHK	LL WOOD/GS BURR						
APVD	CW MASSIE						

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

PMH CSB

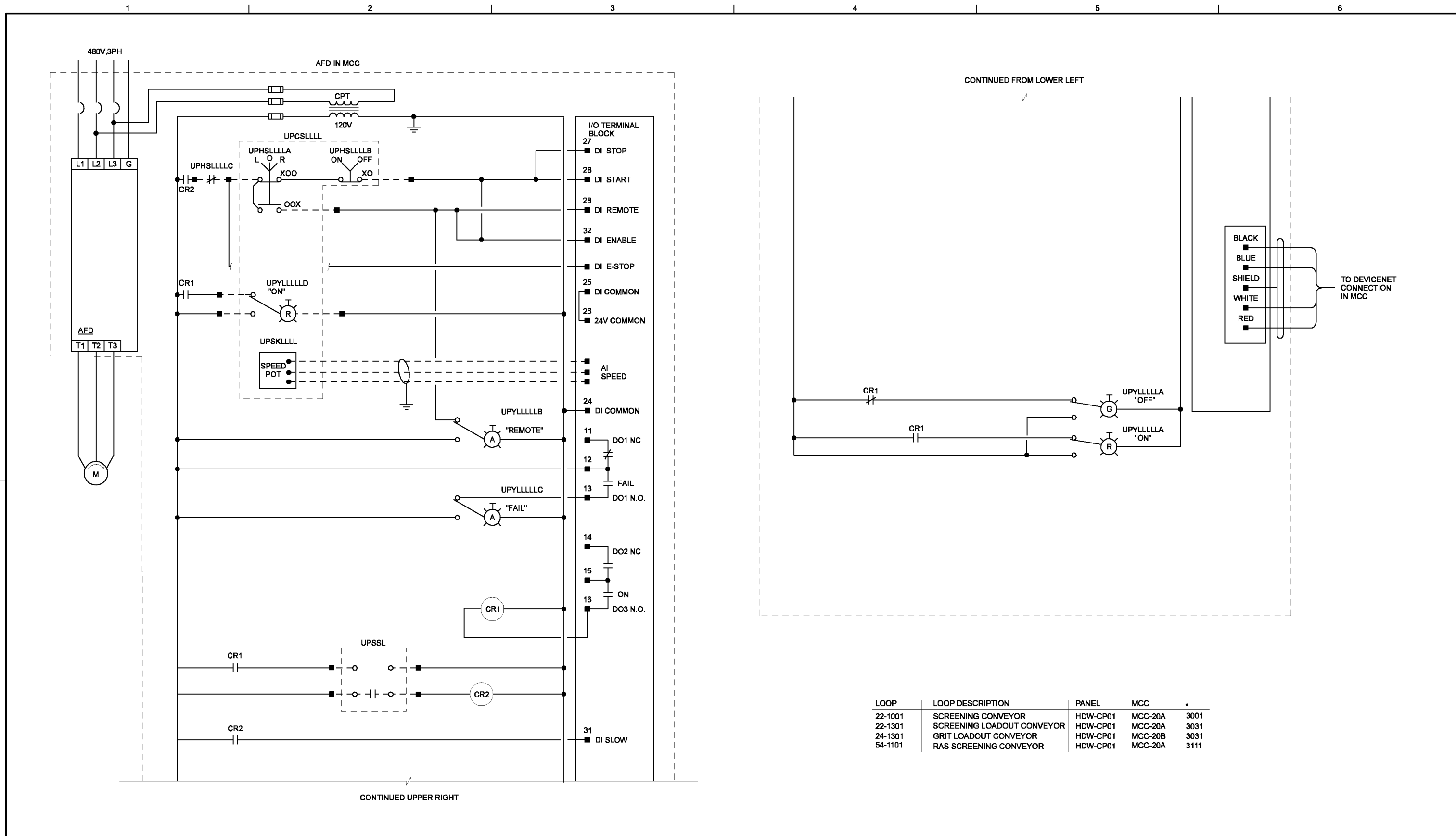


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
SCREENINGS COMPACTOR, TYPICAL

SHEET	108
DWG	08-I-77
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	MCC	*
22-1001	SCREENING CONVEYOR	HDW-CP01	MCC-20A	3001
22-1301	SCREENING LOADOUT CONVEYOR	HDW-CP01	MCC-20A	3031
24-1301	GRIT LOADOUT CONVEYOR	HDW-CP01	MCC-20B	3031
54-1101	RAS SCREENING CONVEYOR	HDW-CP01	MCC-20A	3111

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DSGN	KL MAESTRI								
DR	GJ LOVE								
CHK	LL WOOD/GS BURR	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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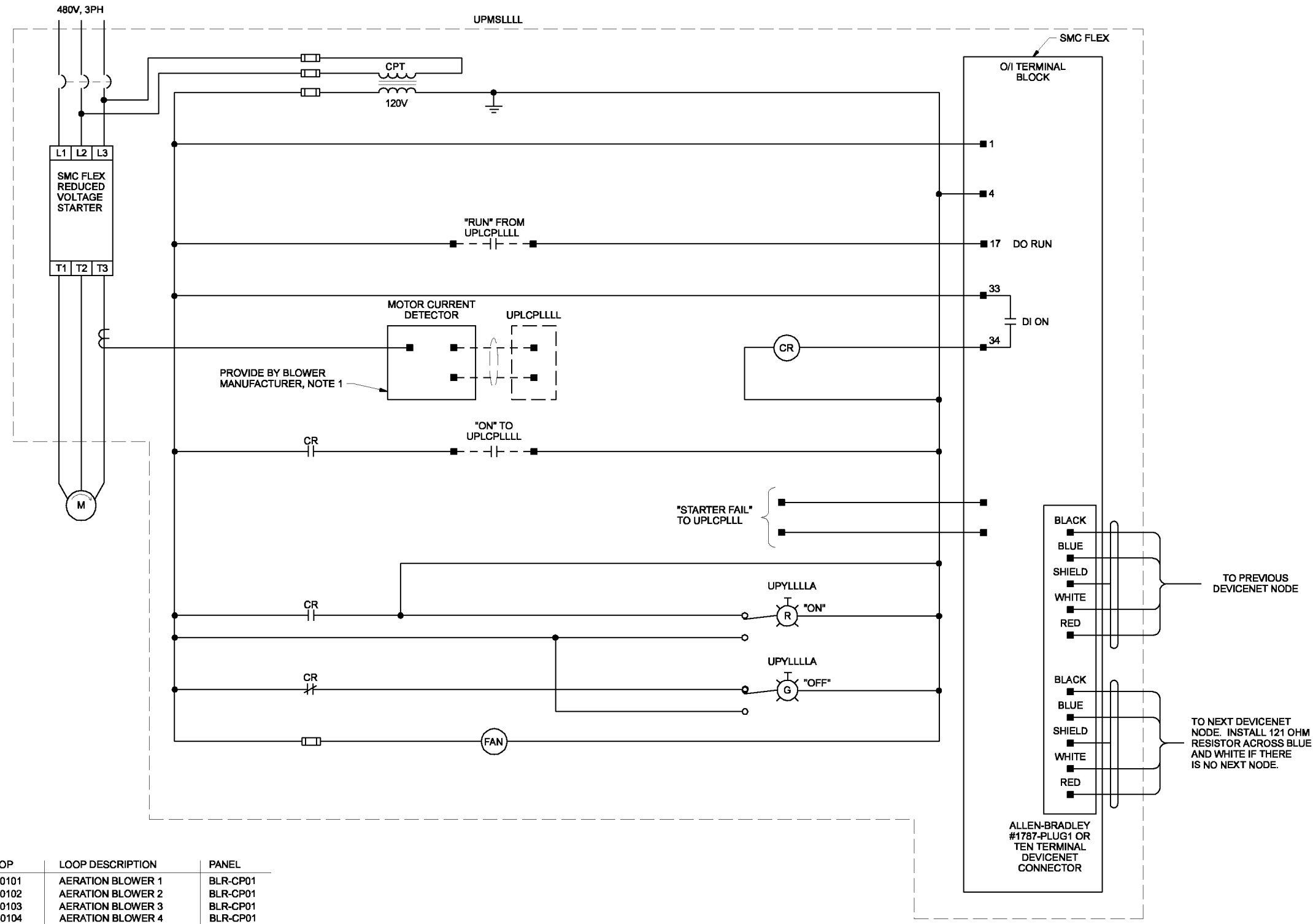


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 WIRING DIAGRAM
 CONVEYORS, TYPICAL

SHEET	109
DWG	08-I-78
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL
22-0101	AERATION BLOWER 1	BLR-CP01
22-0102	AERATION BLOWER 2	BLR-CP01
22-0103	AERATION BLOWER 3	BLR-CP01
22-0104	AERATION BLOWER 4	BLR-CP01

- NOTES:**
- COORDINATE WITH BLOWER MANUFACTURER FOR INSALLATION IN MOTOR STARTER.

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DSGN	KL MAESTRI								
DR	GJ LOVE								
CHK	LL WOOD/GS BURR	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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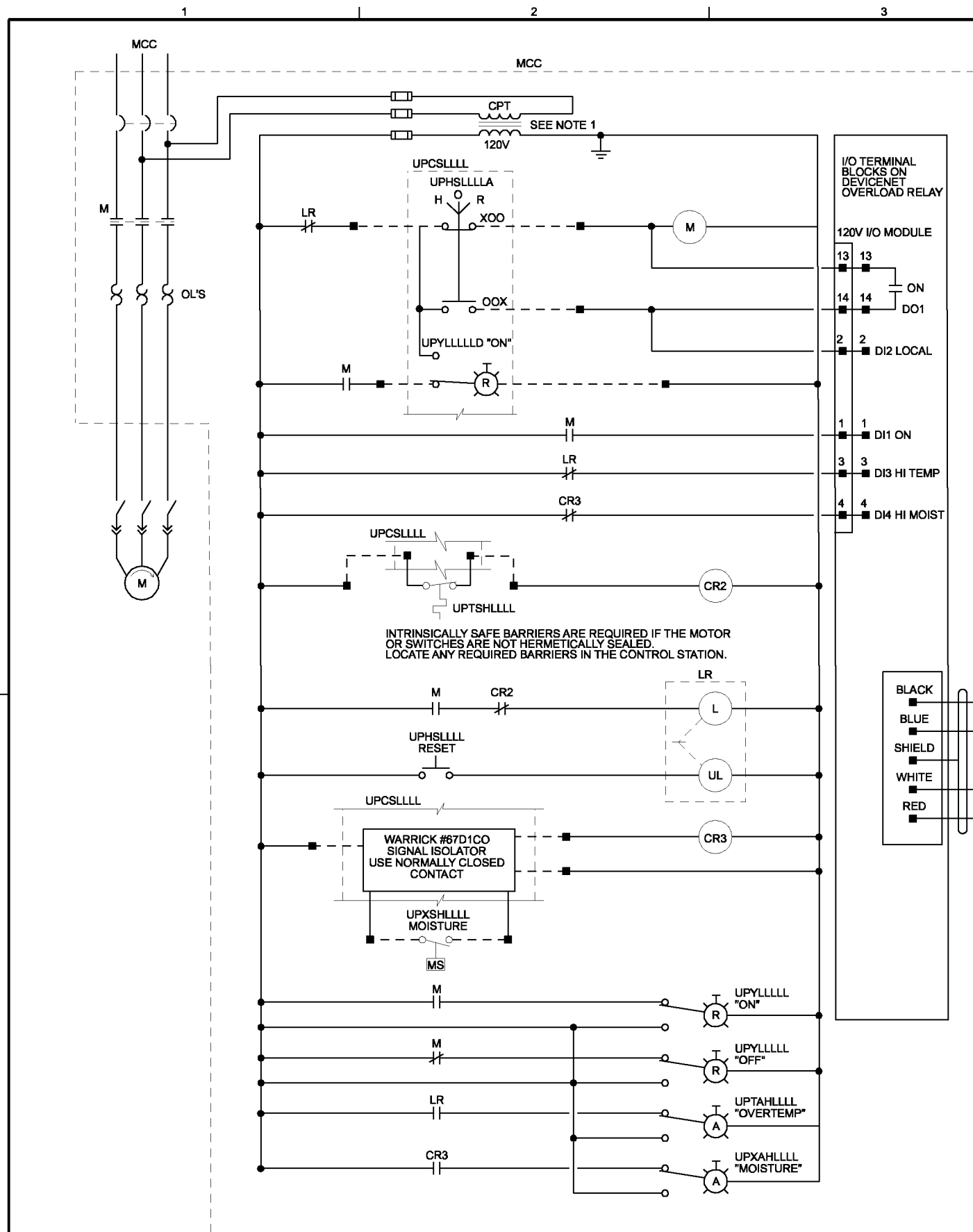


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
 AERATION BLOWER, TYPICAL

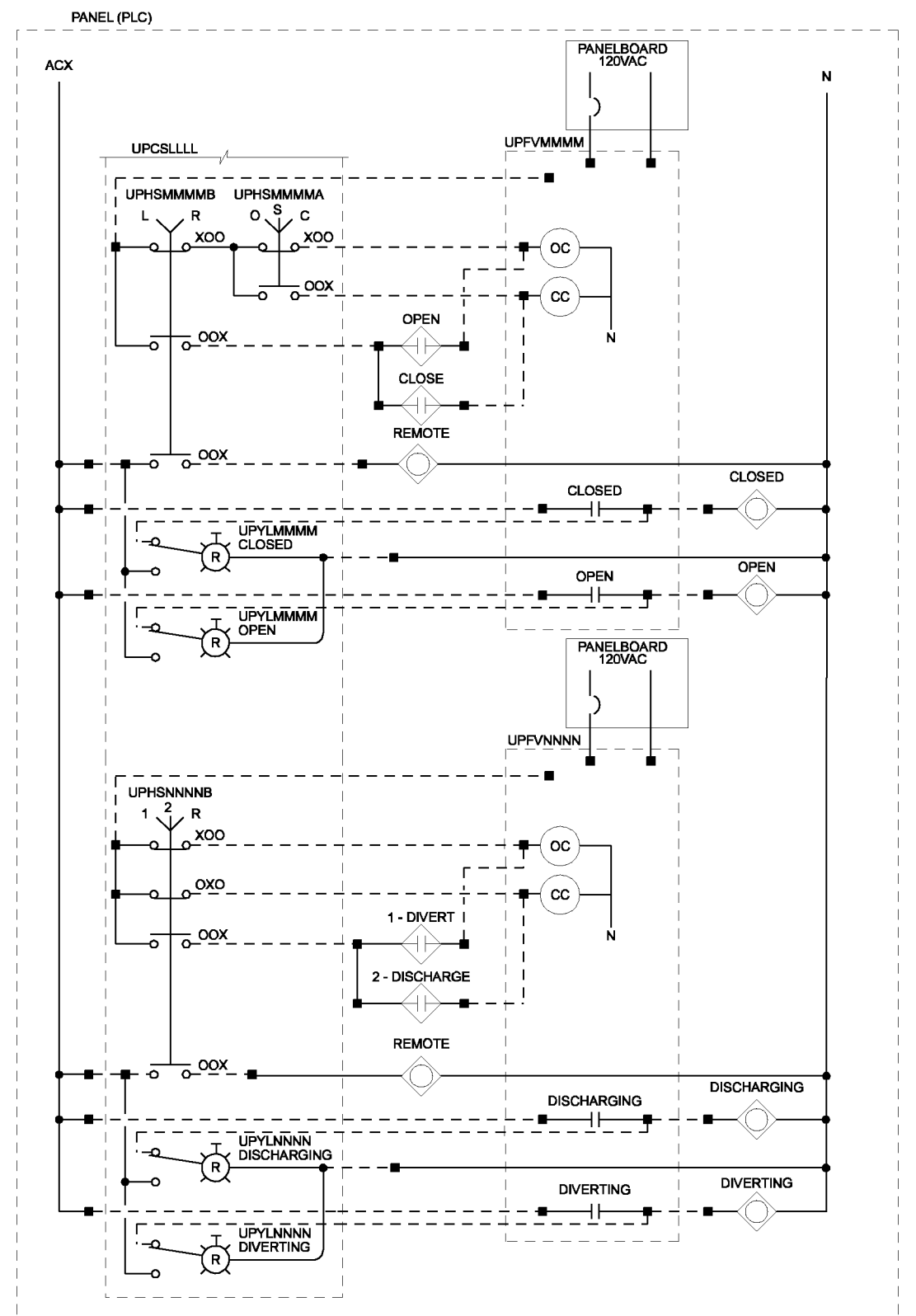
SHEET	110
DWG	08-I-79
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	MCC	MMMM	NNNN
32-0201	VERTICAL LOOP REACTOR SECONDARY SCUM PUMP	AER-CP01	MCC-32A	8011	6001
45-1101	SECONDARY CLARIFIER SCUM PUMP 1	HDW-CP01	MCC-20A	6011	6001
45-1102	SECONDARY CLARIFIER SCUM PUMP 2	HDW-CP01	MCC-20B	6012	6002
45-1103	SECONDARY CLARIFIER SCUM PUMP 3	HDW-CP01	MCC-20A	6013	6003

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



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DSGN	KL MAESTRI	NO.	DATE	REVISION	BY	APVD
DR	GJ LOVE					
CHK	LL WOOD/GS BURR					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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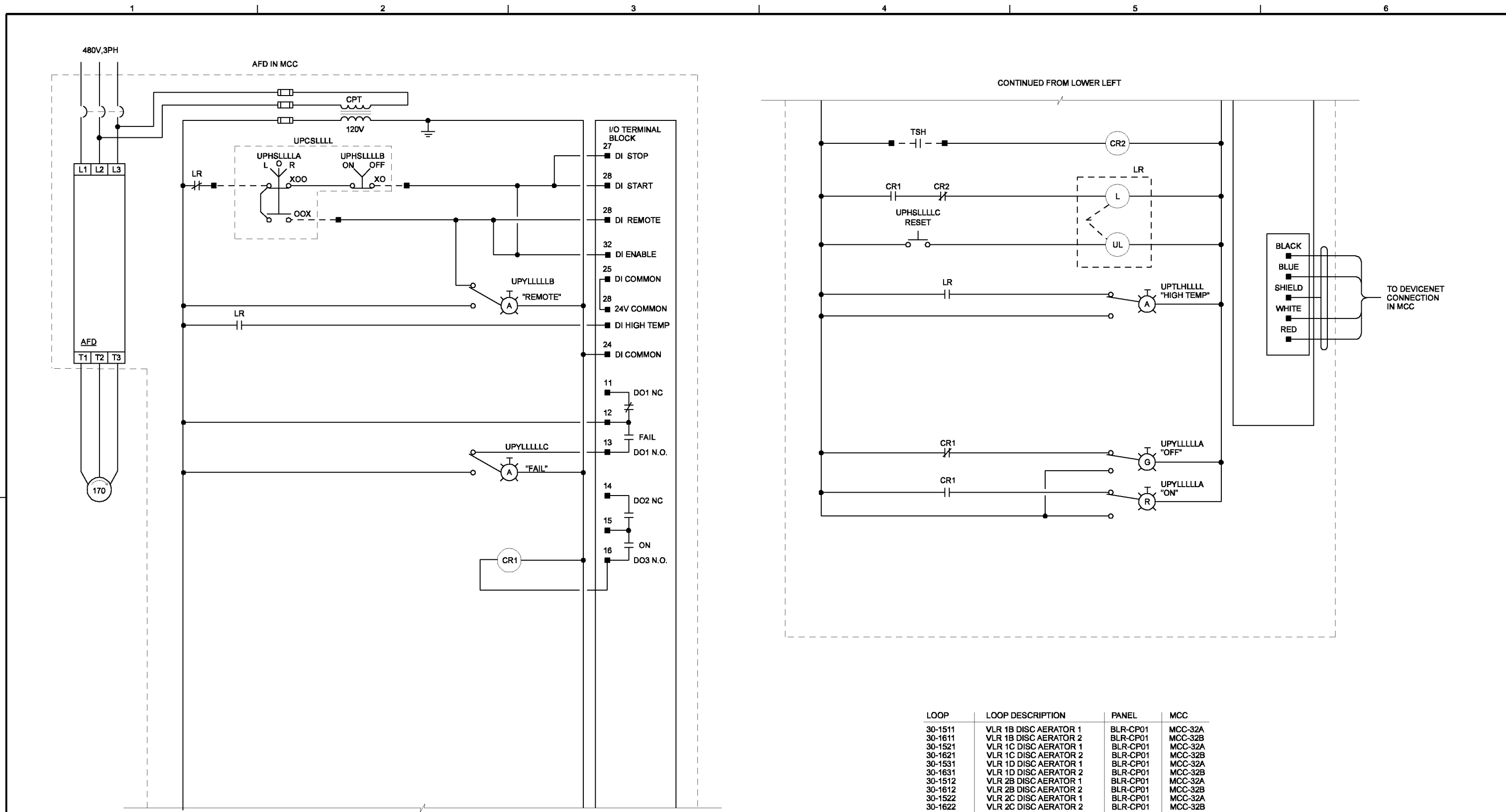


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
SCUM PUMPS, TYPICAL

SHEET	111
DWG	08-I-80
DATE	MAY 19 2006
PROJ	326918

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CONTINUED FROM LOWER LEFT

LOOP	LOOP DESCRIPTION	PANEL	MCC
30-1511	VLR 1B DISC AERATOR 1	BLR-CP01	MCC-32A
30-1611	VLR 1B DISC AERATOR 2	BLR-CP01	MCC-32B
30-1521	VLR 1C DISC AERATOR 1	BLR-CP01	MCC-32A
30-1621	VLR 1C DISC AERATOR 2	BLR-CP01	MCC-32B
30-1531	VLR 1D DISC AERATOR 1	BLR-CP01	MCC-32A
30-1631	VLR 1D DISC AERATOR 2	BLR-CP01	MCC-32B
30-1512	VLR 2B DISC AERATOR 1	BLR-CP01	MCC-32A
30-1612	VLR 2B DISC AERATOR 2	BLR-CP01	MCC-32B
30-1522	VLR 2C DISC AERATOR 1	BLR-CP01	MCC-32A
30-1622	VLR 2C DISC AERATOR 2	BLR-CP01	MCC-32B
30-1532	VLR 2D DISC AERATOR 1	BLR-CP01	MCC-32A
30-1632	VLR 2D DISC AERATOR 2	BLR-CP01	MCC-32B

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 19, 2006 BY CHRISTOPHER S. BURR, STATE OF OREGON, P.E. NO. 49633PE

DSGN	KL MAESTRI	NO.	DATE	REVISION	BY	APVD
DR	GJ LOVE					
CHK	LL WOOD/GS BURR					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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

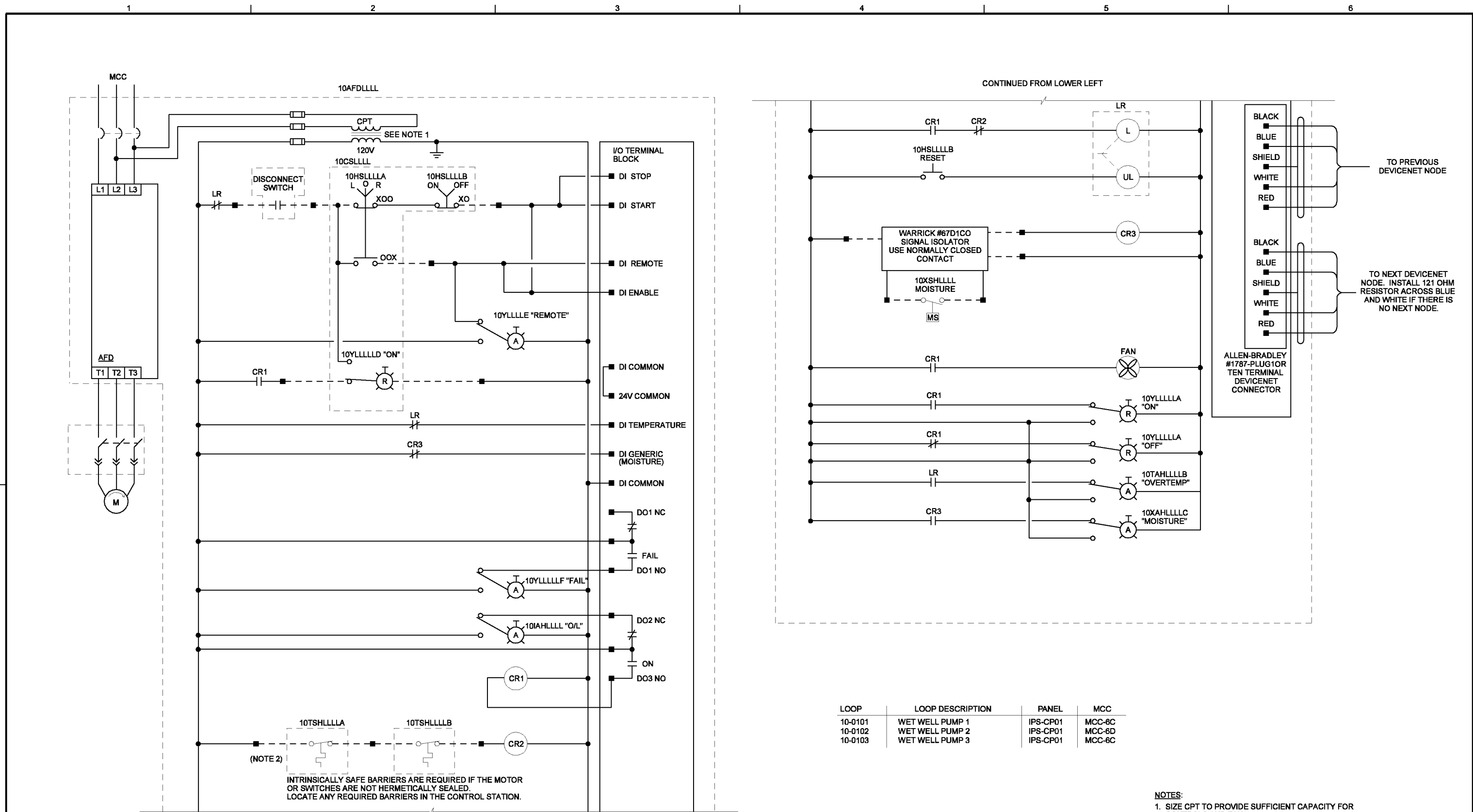


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 WIRING DIAGRAM
 DISC AERATORS, TYPICAL

SHEET	112
DWG	08-I-81
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
1. SIZE CPT TO PROVIDE SUFFICIENT CAPACITY FOR CONTROLS AND FAN.
 2. CONNECT PHASE SWITCHES IN SERIES.

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DSGN	KL MAESTRI						
DR	GJ LOVE						
CHK	LL WOOD/GS BURR	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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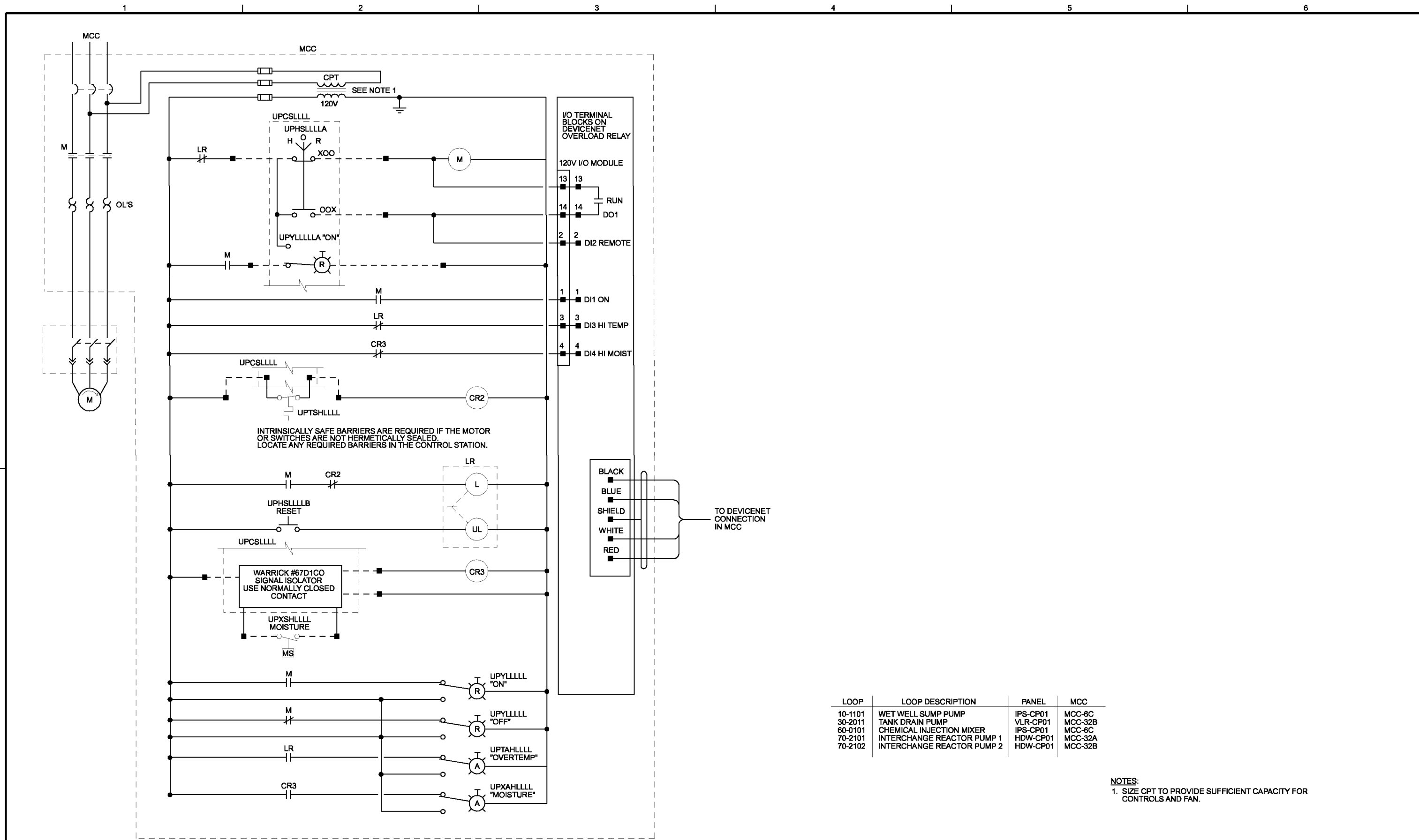


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
 IPS WET WELL PUMP, TYPICAL

SHEET	113
DWG	08-I-82
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	MCC
10-1101	WET WELL SUMP PUMP	IPS-CP01	MCC-8C
30-2011	TANK DRAIN PUMP	VLR-CP01	MCC-32B
60-0101	CHEMICAL INJECTION MIXER	IPS-CP01	MCC-6C
70-2101	INTERCHANGE REACTOR PUMP 1	HDW-CP01	MCC-32A
70-2102	INTERCHANGE REACTOR PUMP 2	HDW-CP01	MCC-32B

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

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DSGN	KL MAESTRI								
DR	GJ LOVE								
CHK	LL WOOD/GS BURR	01/20/10		(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	PMH	CSB			
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

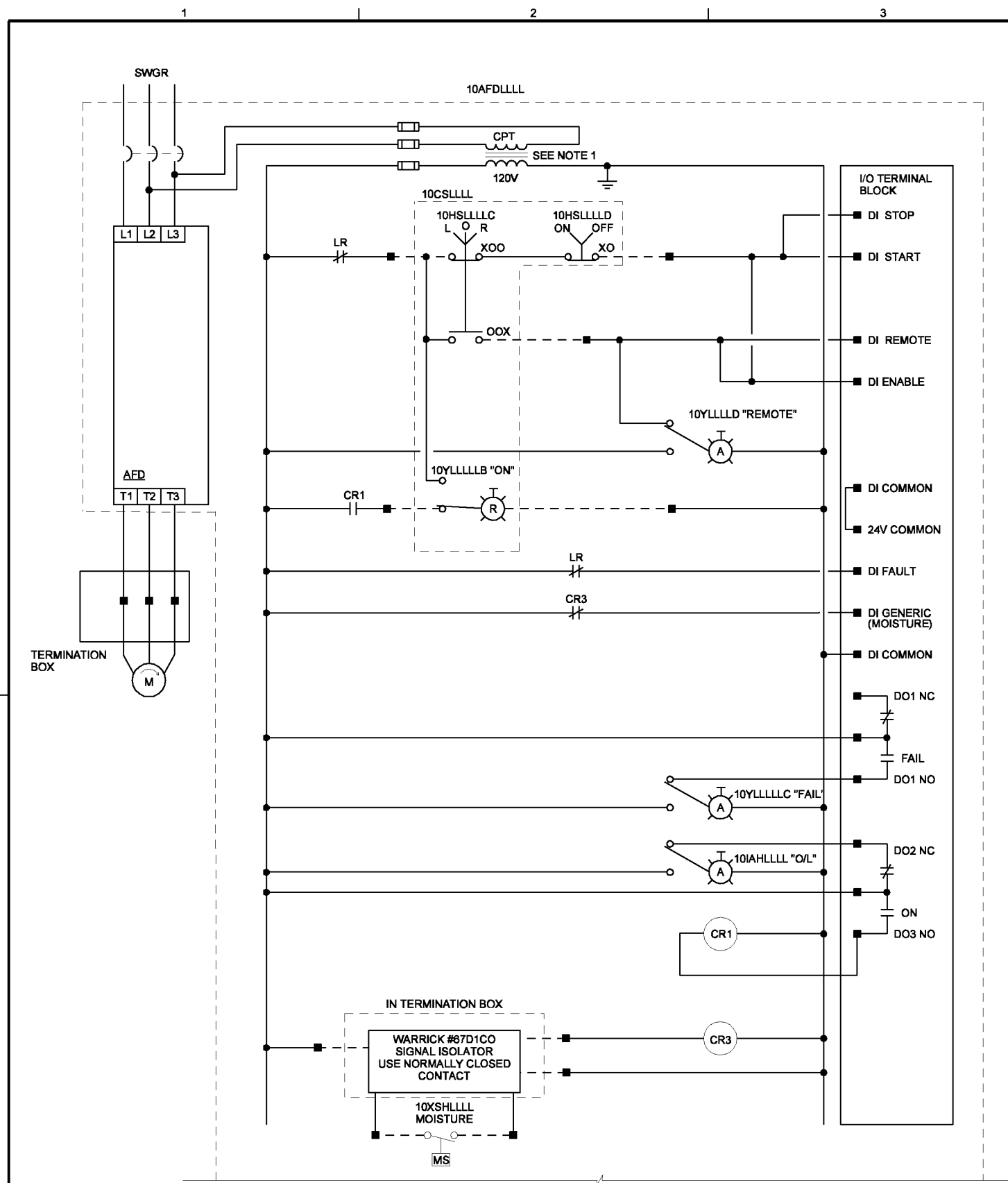


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

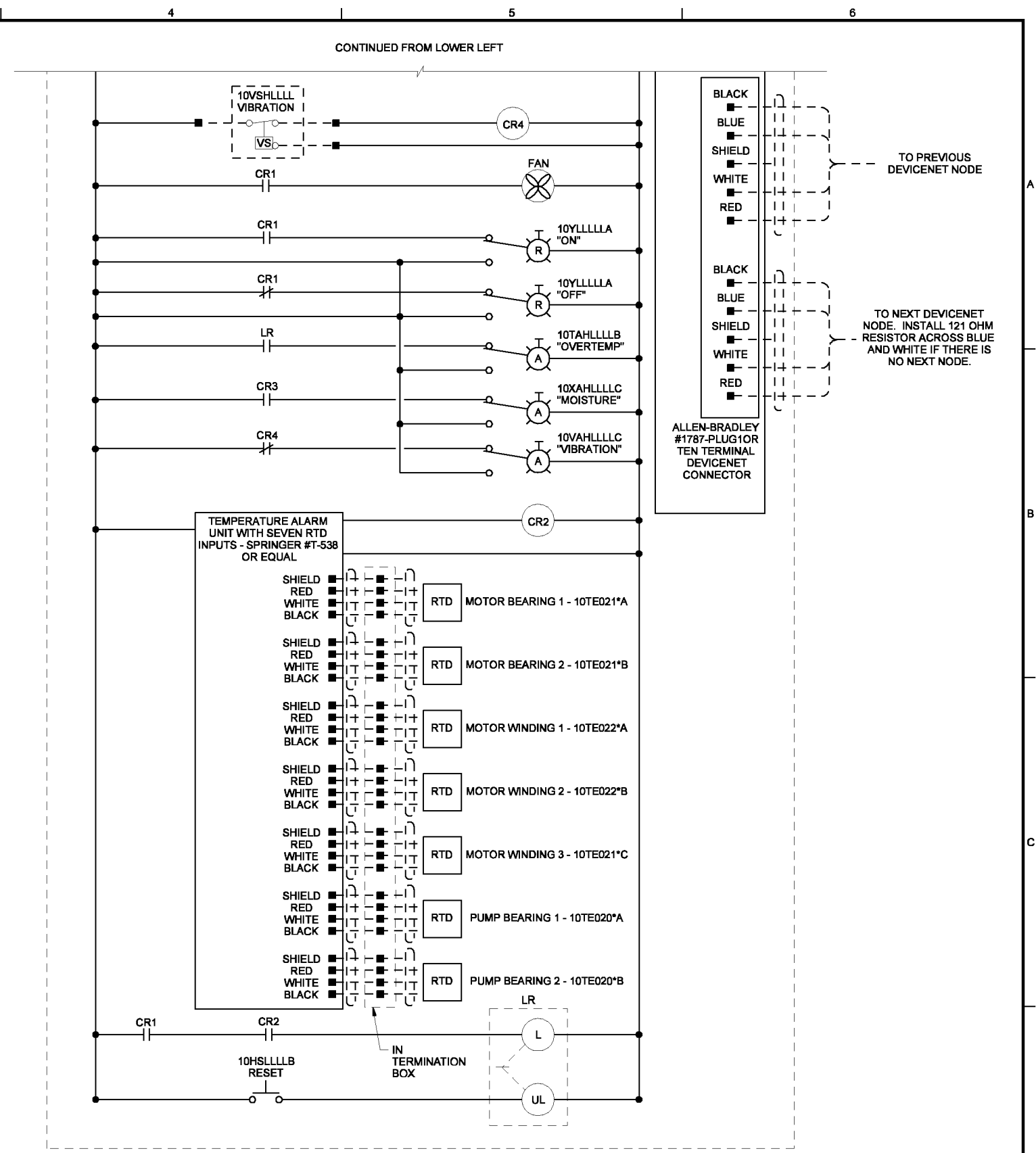
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
 CONSTANT SPEED SUBMERSIBLE PUMPS AND MIXERS, TYPICAL

SHEET	114
DWG	08-I-83
DATE	MAY 19 2006
PROJ	326918

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CONTINUED FROM LOWER LEFT

LOOP	LOOP DESCRIPTION	PANEL	SWGR	*
10-0201	DRY PIT PUMP 1	IPS-CP01	SWGR-10A	1
10-0202	DRY PIT PUMP 2	IPS-CP01	SWGR-10B	2
10-0203	DRY PIT PUMP 3	IPS-CP01	SWGR-10B	3

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

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NO.	DATE	REVISION	BY	APVD
1	01/20/10	AS-BUILT	PMH	CSB
2				
3				

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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0 1"
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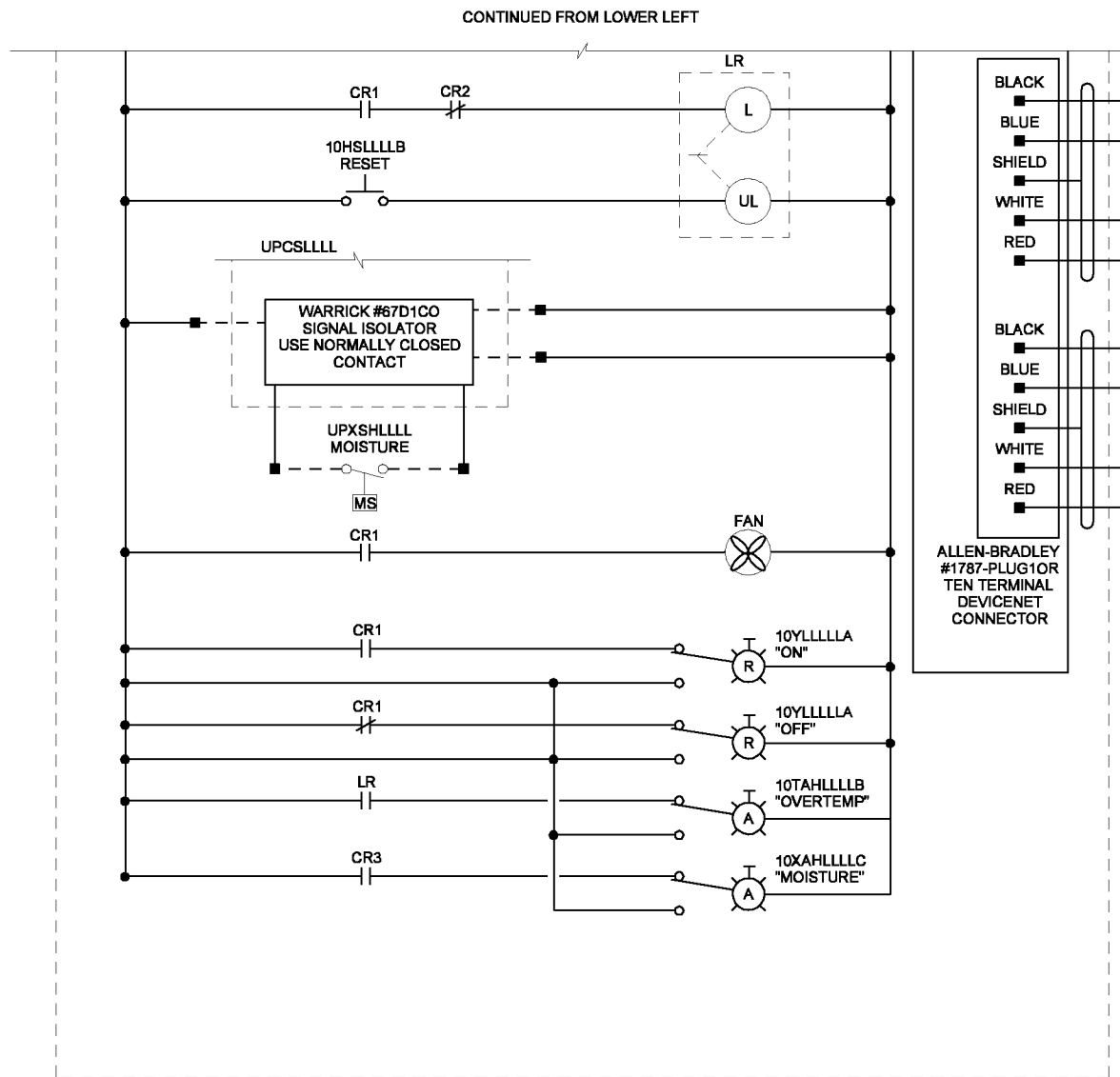
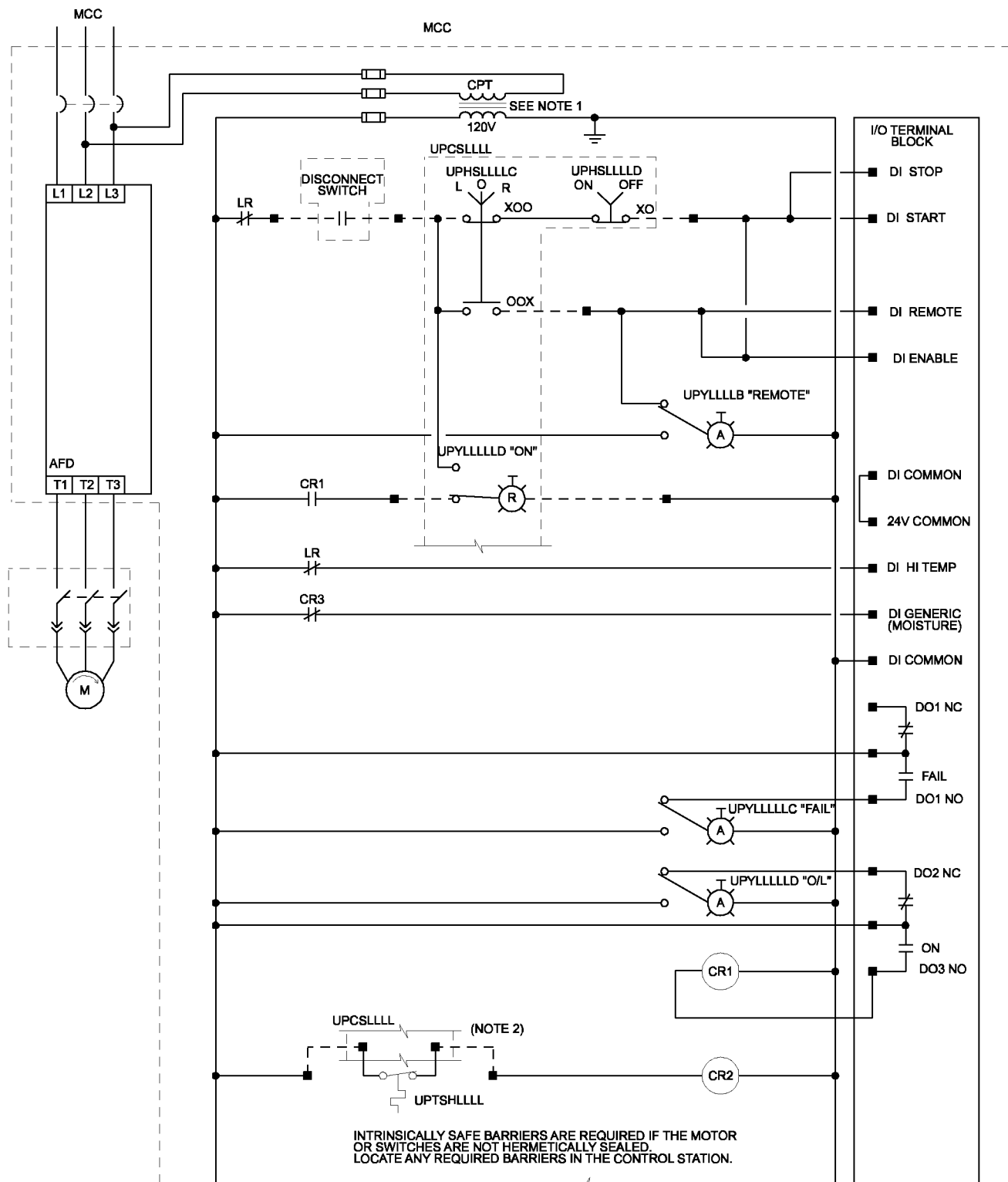
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
IPS DRY WELL PUMP, TYPICAL

SHEET	115
DWG	08-I-84
DATE	MAY 19 2006
PROJ	326918

FILENAME: 08ni084d_326918.dgn PLOT DATE: 3/8/2010 PLOT TIME: 2:52:19 PM

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LOOP	LOOP DESCRIPTION	PANEL	MCC
50-0101	CLARIFIER 1, RAS PUMP 1	HDW-CP01	MCC-20A
50-0201	CLARIFIER 1, RAS PUMP 2	HDW-CP01	MCC-20B
50-0102	CLARIFIER 2, RAS PUMP 1	HDW-CP01	MCC-20A
50-0202	CLARIFIER 2, RAS PUMP 2	HDW-CP01	MCC-20B
50-0103	CLARIFIER 3, RAS PUMP 1	HDW-CP01	MCC-20A
50-0203	CLARIFIER 3, RAS PUMP 2	HDW-CP01	MCC-20B
72-2101	AEROBIC DIGESTER DISCHARGE PUMP	AER-CP01	MCC-32B

- NOTES:
1. SIZE CPT TO PROVIDE SUFFICIENT CAPACITY FOR CONTROLS AND FAN.
 2. CONNECT PHASE SWITCHES IN SERIES.

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DSGN	KL MAESTRI								
DR	GJ LOVE								
CHK	LL WOOD/GS BURR	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

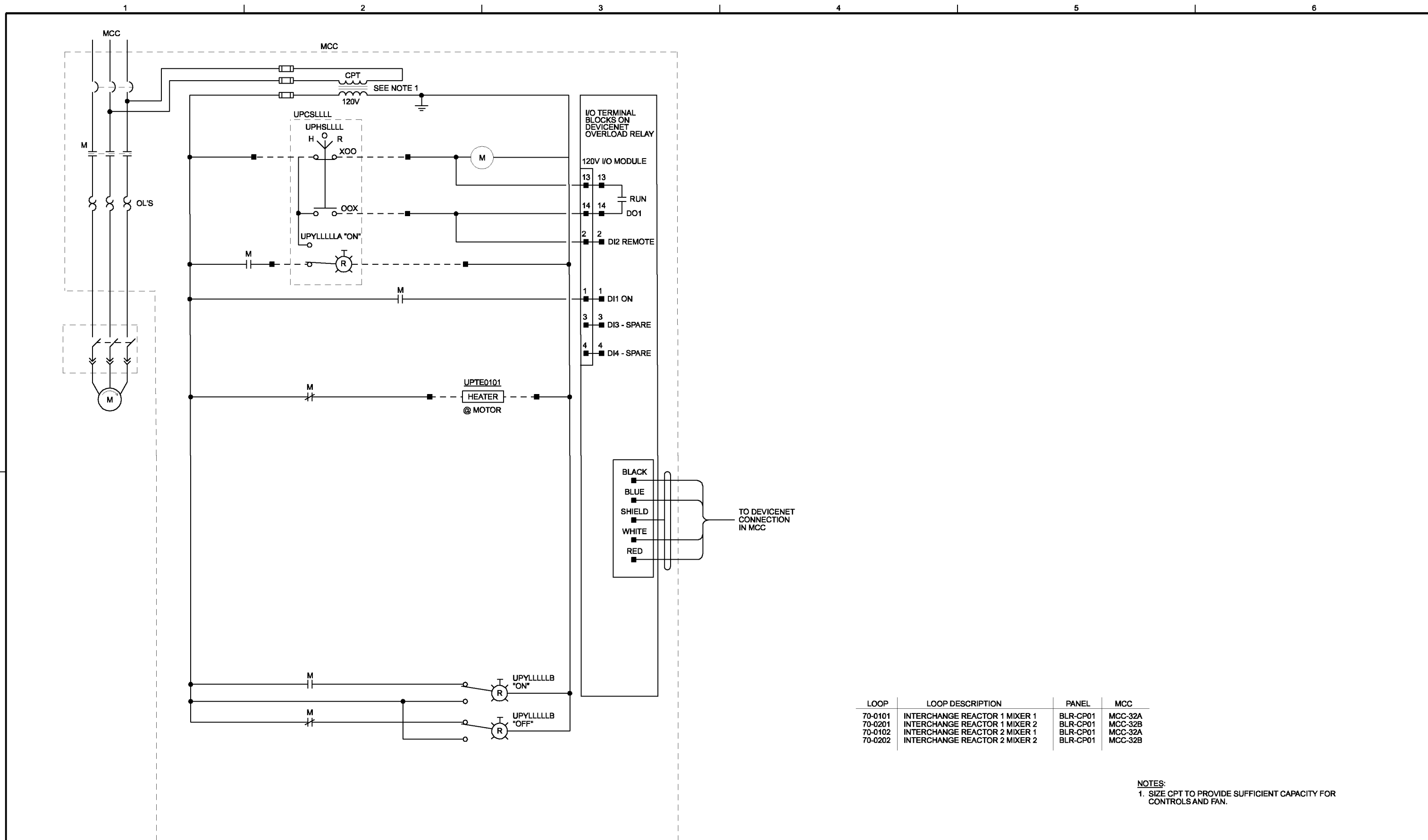
(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

CH2MHILL **CAROLLO** **engineers**

CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL		SHEET	116
WIRING DIAGRAM		DWG	08-I-85
RAS AND AEROBIC DIGESTER		DATE	MAY 19 2006
DISCHARGE PUMPS, TYPICAL		PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	MCC
70-0101	INTERCHANGE REACTOR 1 MIXER 1	BLR-CP01	MCC-32A
70-0201	INTERCHANGE REACTOR 1 MIXER 2	BLR-CP01	MCC-32B
70-0102	INTERCHANGE REACTOR 2 MIXER 1	BLR-CP01	MCC-32A
70-0202	INTERCHANGE REACTOR 2 MIXER 2	BLR-CP01	MCC-32B

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

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DSGN	KL MAESTRI						
DR	GJ LOVE						
CHK	LL WOOD/GS BURR	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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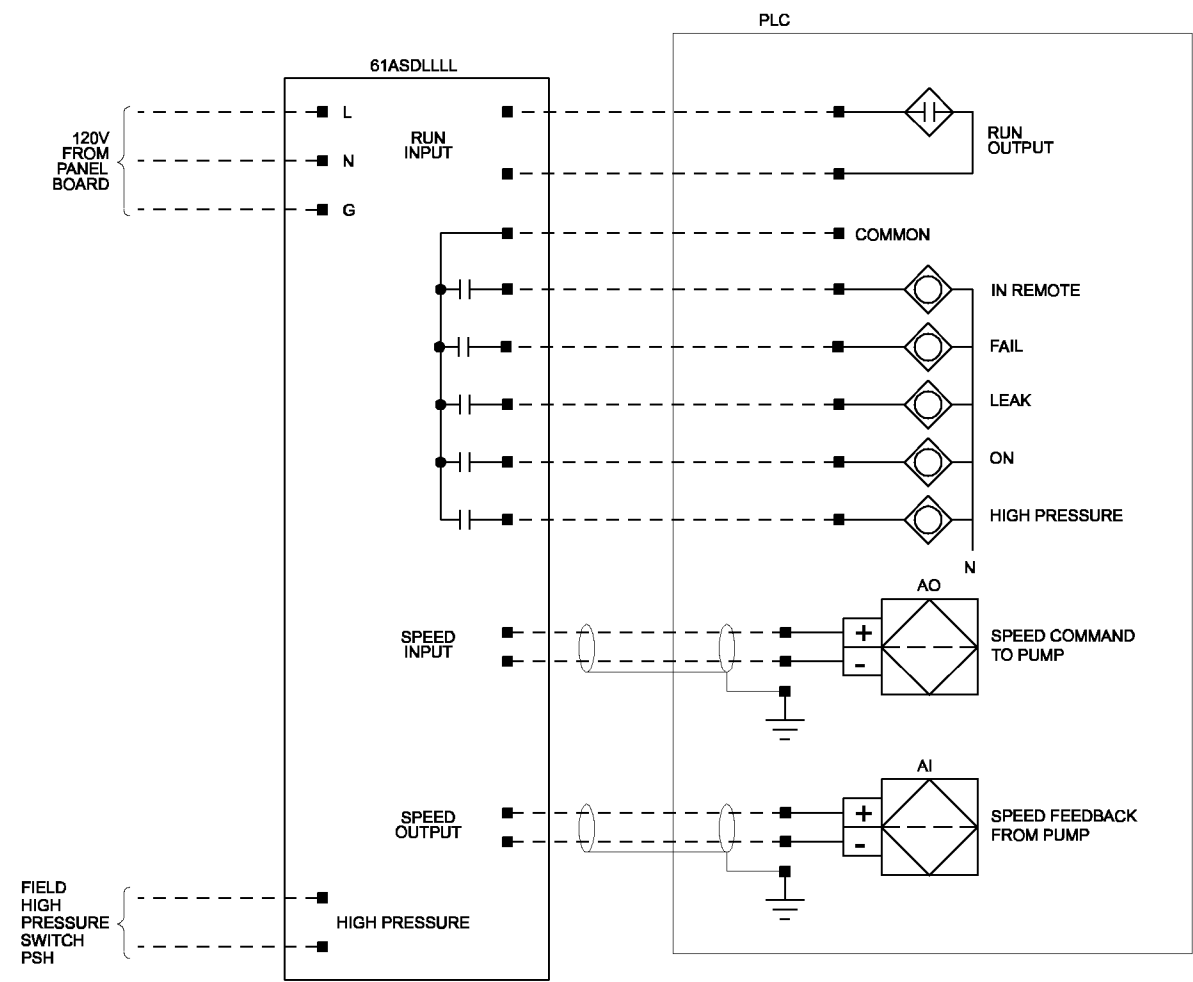


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
 WIRING DIAGRAM
 INTERCHANGE REACTOR MIXER, TYPICAL

SHEET	117
DWG	08-I-86
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	PANEL BOARD	PSH
1101	SODIUM HYPOCHLORITE PUMP 1	IPS-CP01	IPS-LP01	61-3101
1102	SODIUM HYPOCHLORITE PUMP 2	IPS-CP01	IPS-LP01	61-3102
1103	SODIUM HYPOCHLORITE PUMP 3	IPS-CP01	IPS-LP01	61-3103

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DSGN	KL MAESTRI								
DR	GJ LOVE								
CHK	LL WOOD/GS BURR	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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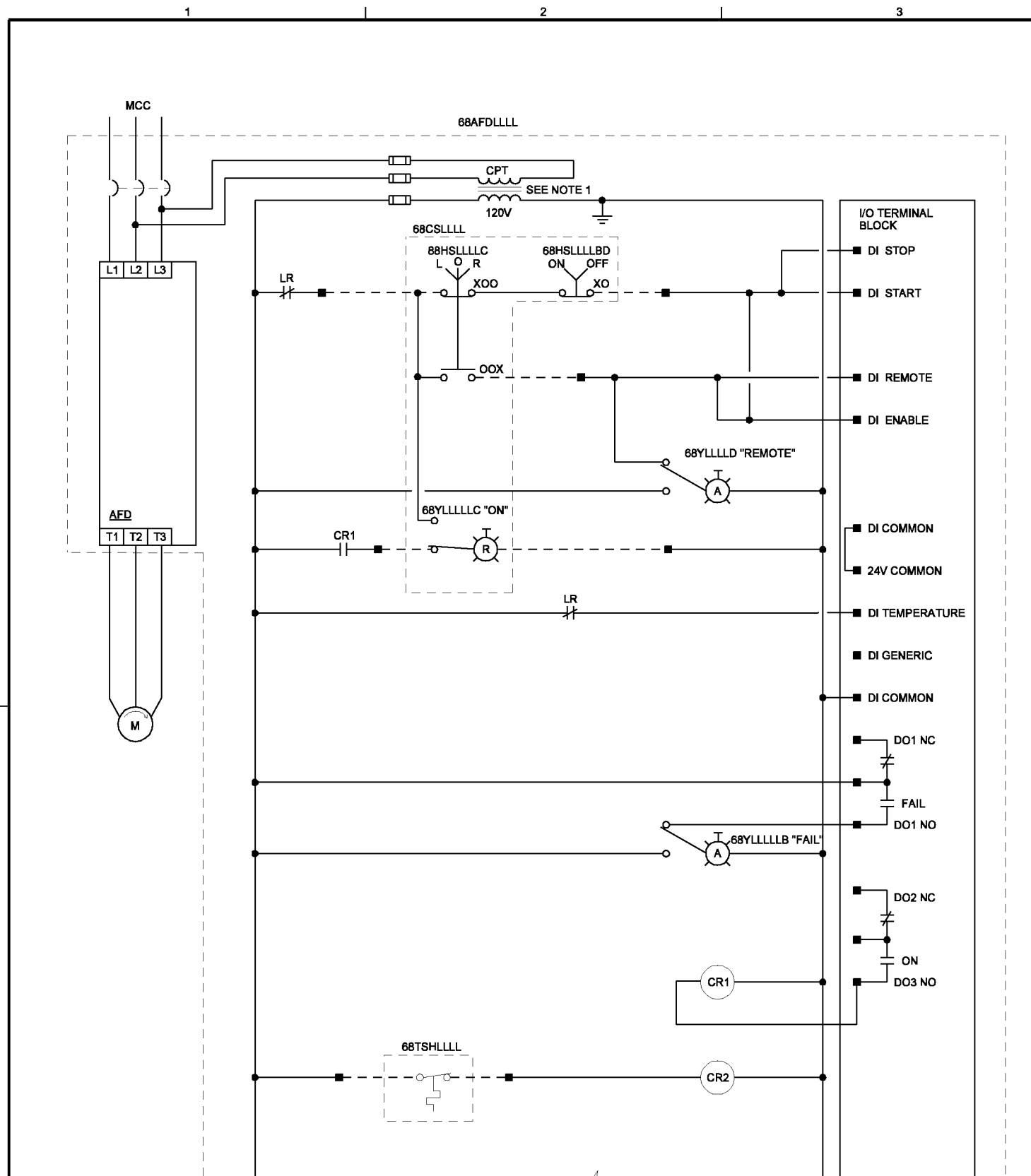


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

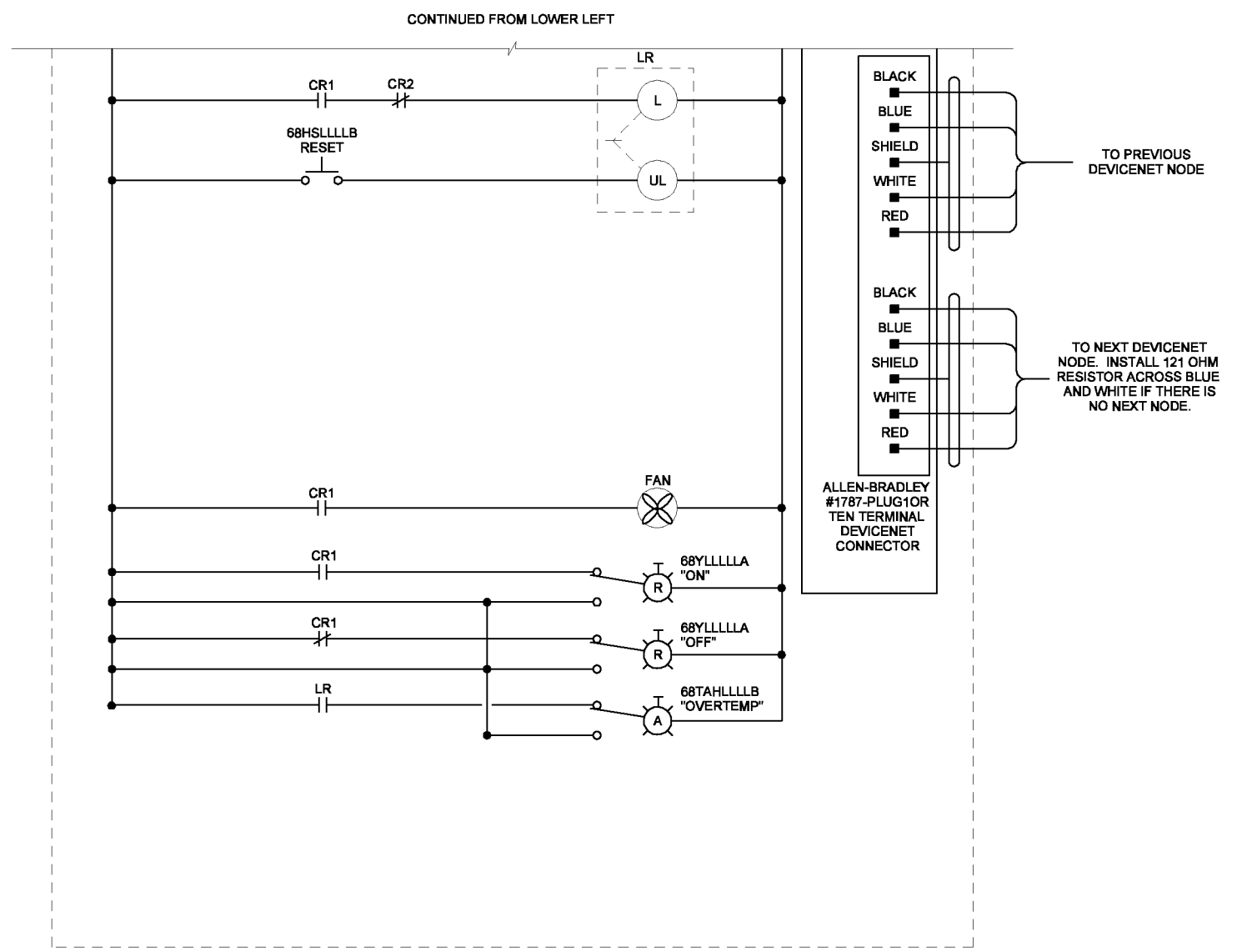
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
SODIUM HYPOCHLORITE PUMP, TYPICAL

SHEET	118
DWG	08-I-87
DATE	MAY 19 2006
PROJ	326918

A
 B
 C
 D
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LOOP	LOOP DESCRIPTION	PANEL	MCC
68-0101	W3 PUMP 1	IPS-CP01	MCC-6C
68-0102	W3 PUMP 2	IPS-CP01	MCC-8D
68-0103	W3 PUMP 3	IPS-CP01	MCC-6C

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

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DSGN	KL MAESTRI	NO.	DATE	REVISION	BY	APVD
DR	GJ LOVE					
CHK	LL WOOD/GS BURR					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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

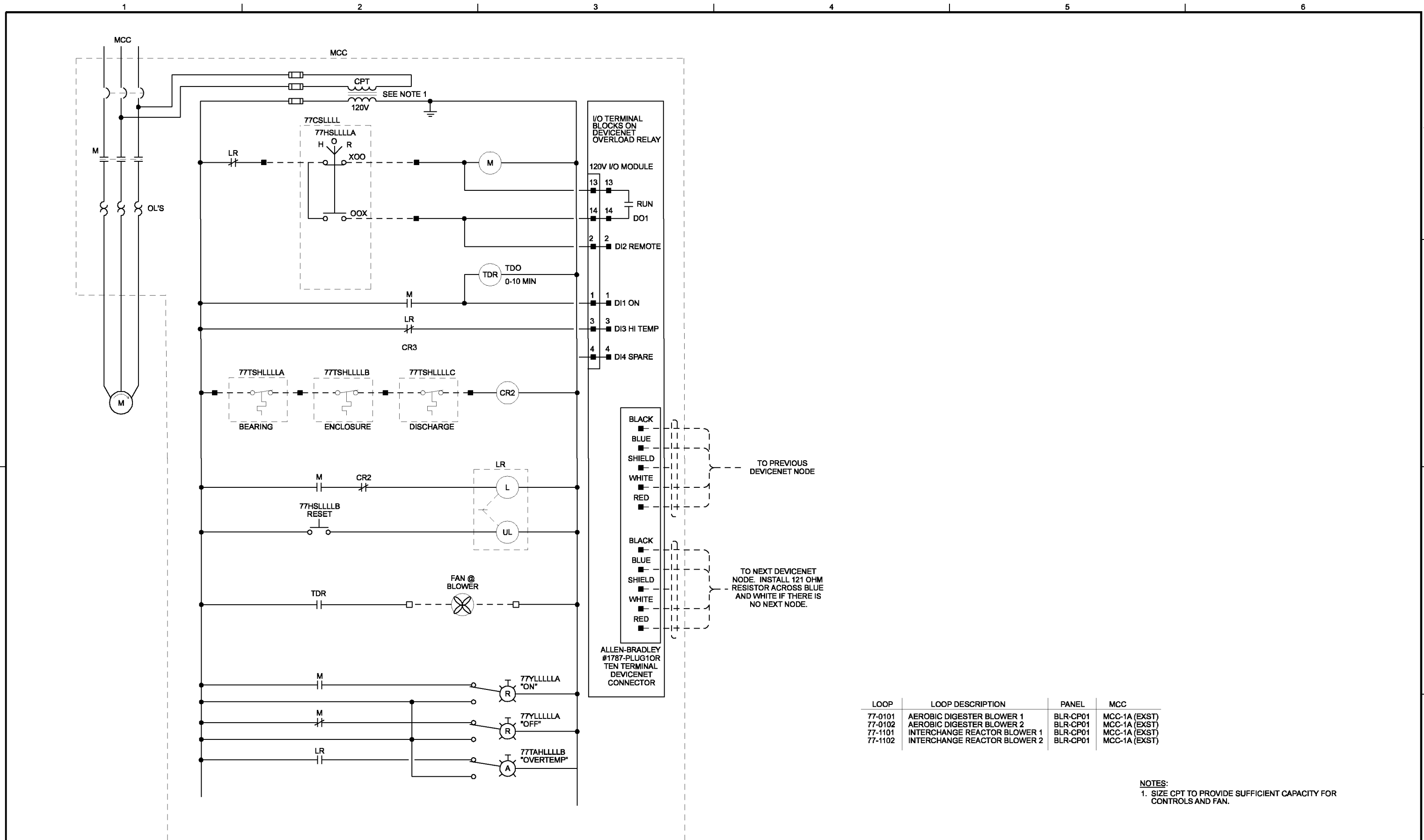


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
W3 PUMP, TYPICAL

SHEET	119
DWG	08-I-88
DATE	MAY 19 2006
PROJ	326918

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LOOP	LOOP DESCRIPTION	PANEL	MCC
77-0101	AEROBIC DIGESTER BLOWER 1	BLR-CP01	MCC-1A (EXST)
77-0102	AEROBIC DIGESTER BLOWER 2	BLR-CP01	MCC-1A (EXST)
77-1101	INTERCHANGE REACTOR BLOWER 1	BLR-CP01	MCC-1A (EXST)
77-1102	INTERCHANGE REACTOR BLOWER 2	BLR-CP01	MCC-1A (EXST)

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

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DSGN	KL MAESTRI	NO.	DATE	REVISION	BY	APVD	VERIFICATION	SCALE
DR	GJ LOVE							
CHK	LL WOOD/GS BURR							
APVD	CW MASSIE							

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

PMH CSB

CH2MHILL **CAROLLO** engineers

CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

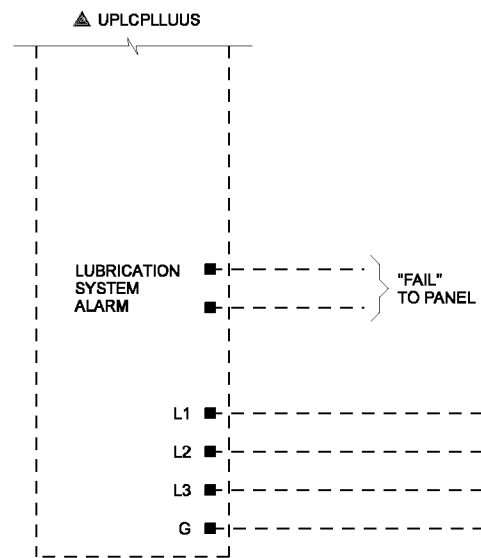
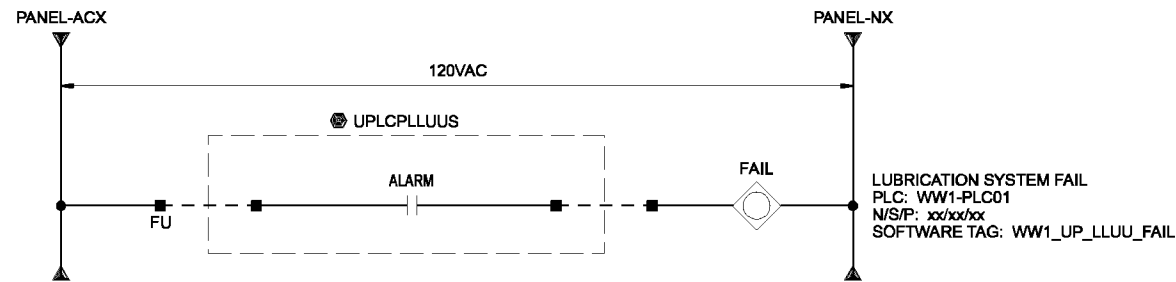
INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
 INTERCHANGE REACTOR BLOWER AND
 AEROBIC DIGESTER BLOWER, TYPICAL

SHEET	120
DWG	08-I-89
DATE	MAY 19 2006
PROJ	326918

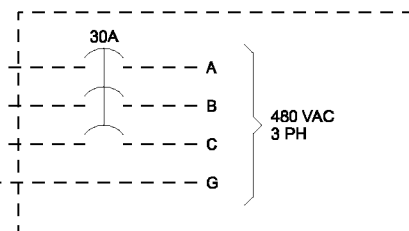
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FIELD

PANEL



480VAC PANEL



LOOP	LOOP DESCRIPTION	PANEL	480VAC PANEL
30-0801	LUBRICATION SYSTEM CONTROL PANEL	BLR-CP01	

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DSGN	KL MAESTRI	NO.	DATE	REVISION	BY	APVD
DR	DS PARKER					
CHK	LL WOOD/GS BURR					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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

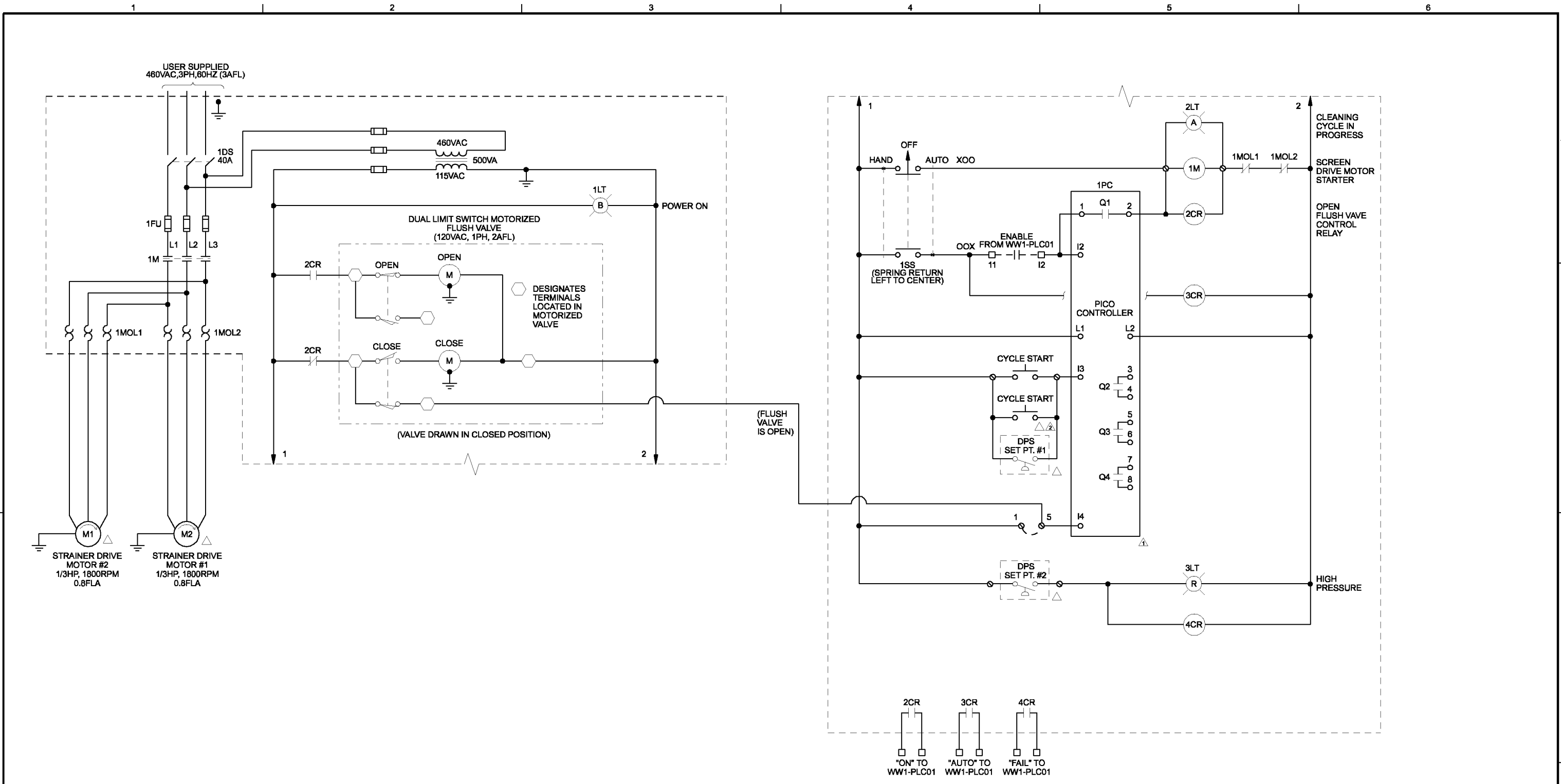


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
LUBRICATION SYSTEM
DISCRETE LOOP

SHEET	121
DWG	08-I-90
DATE	MAY 19 2006
PROJ	326918

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DSGN	BR ROGERS	NO.	DATE	REVISION	BY	APVD
DR	RB CAVE					
CHK	CS BURR					
APVD	RS SHANLEY					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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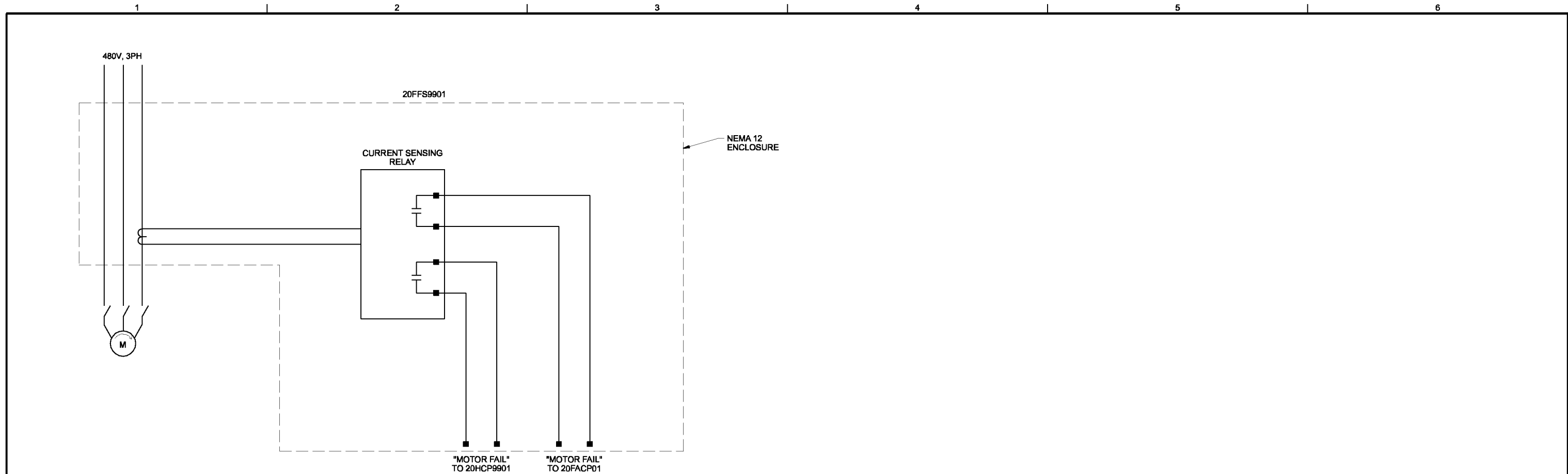
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

DIFFERENTIAL PRESSURE SWITCH (DPS)
SET POINT #1
CYCLE START (LOW PRESSURE)
SET POINT #2
PILOT LIGHT ALARM (PRESSURE HIGH)

- △ REMOTELY LOCATED COMPONENTS.
- ⚠ TIME SETTINGS
T1-SCREEN FLUSH CYCLE TIME
T2-NEXT CYCLE DELAY
T3-AUTO CLEANING CYCLE (TIME OUT INITIATES SCREEN FLUSH CYCLE)

SHEET	122
DWG	08-I-91
DATE	MAY 19 2006
PROJ	326918

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NOTES:

1. PROVIDE UNDERCURRENT SENSING RELAYS & CTS TO DETECT UNDERCURRENT WHEN UNIT IS IN OPERATION. SET RELAYS PER HVAC MANUFACTURER'S RECOMMENDATION. MANUFACTURER: SQUARE D MODEL: RM3JA1, OR EQUAL.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 19, 2006 BY CHRISTOPHER S. BURR, STATE OF OREGON, P.E. NO. 49633PE

DSGN	KL MAESTRI								
DR	DS PARKER								
CHK	LL WOOD/GS BURR	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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

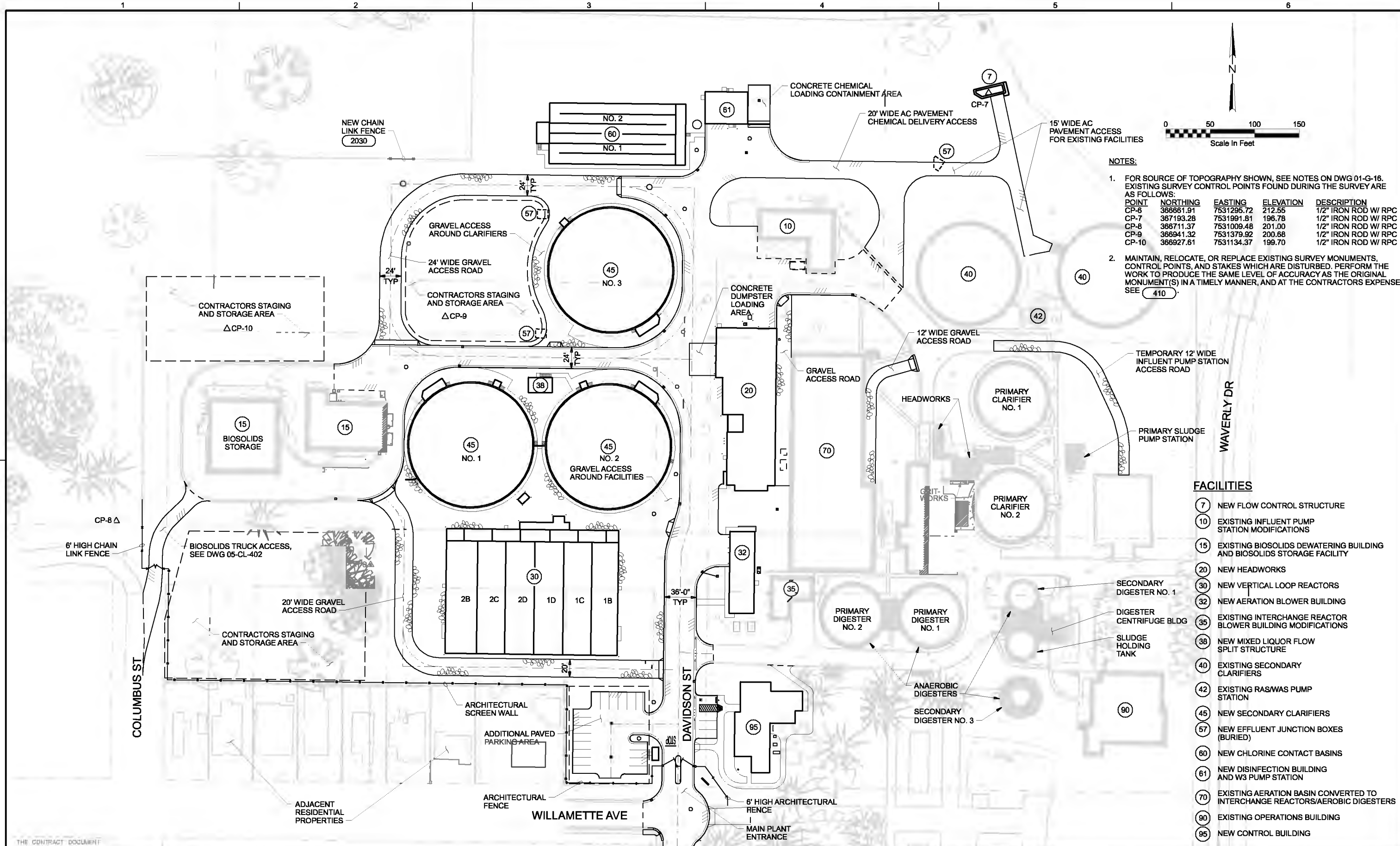


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INSTRUMENTATION AND CONTROL
WIRING DIAGRAM
AIR SUPPLY UNIT
FAN FAILURE SWITCH

SHEET	123
DWG	08-I-92
DATE	MAY 19 2006
PROJ	326918

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NOTES:

- FOR SOURCE OF TOPOGRAPHY SHOWN, SEE NOTES ON DWG 01-G-16. EXISTING SURVEY CONTROL POINTS FOUND DURING THE SURVEY ARE AS FOLLOWS:

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-6	366861.91	7531295.72	212.55	1/2" IRON ROD W/ RPC
CP-7	367193.28	7531991.81	196.78	1/2" IRON ROD W/ RPC
CP-8	366711.37	7531009.48	201.00	1/2" IRON ROD W/ RPC
CP-9	366941.32	7531379.92	200.68	1/2" IRON ROD W/ RPC
CP-10	366927.61	7531134.37	199.70	1/2" IRON ROD W/ RPC

- MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTORS EXPENSE. SEE 410.

- FACILITIES**
- (7) NEW FLOW CONTROL STRUCTURE
 - (10) EXISTING INFLUENT PUMP STATION MODIFICATIONS
 - (15) EXISTING BIOSOLIDS DEWATERING BUILDING AND BIOSOLIDS STORAGE FACILITY
 - (20) NEW HEADWORKS
 - (30) NEW VERTICAL LOOP REACTORS
 - (32) NEW AERATION BLOWER BUILDING
 - (35) EXISTING INTERCHANGE REACTOR BLOWER BUILDING MODIFICATIONS
 - (38) NEW MIXED LIQUOR FLOW SPLIT STRUCTURE
 - (40) EXISTING SECONDARY CLARIFIERS
 - (42) EXISTING RAS/WAS PUMP STATION
 - (45) NEW SECONDARY CLARIFIERS
 - (57) NEW EFFLUENT JUNCTION BOXES (BURIED)
 - (60) NEW CHLORINE CONTACT BASINS
 - (61) NEW DISINFECTION BUILDING AND W3 PUMP STATION
 - (70) EXISTING AERATION BASIN CONVERTED TO INTERCHANGE REACTORS/AEROBIC DIGESTERS
 - (90) EXISTING OPERATIONS BUILDING
 - (95) NEW CONTROL BUILDING

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 2006 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 60132PE.

DSGN	JT ASHLEY						
DR	PALONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
OVERALL SITE PLAN

SHEET	124
DWG	05-C-100
DATE	MAY 19 2006
PROJ	326918

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AREA 101

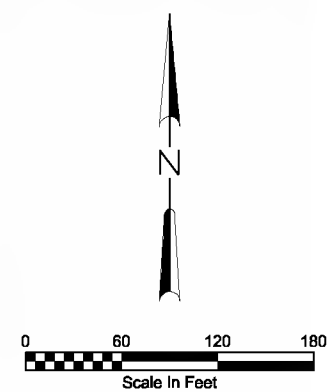
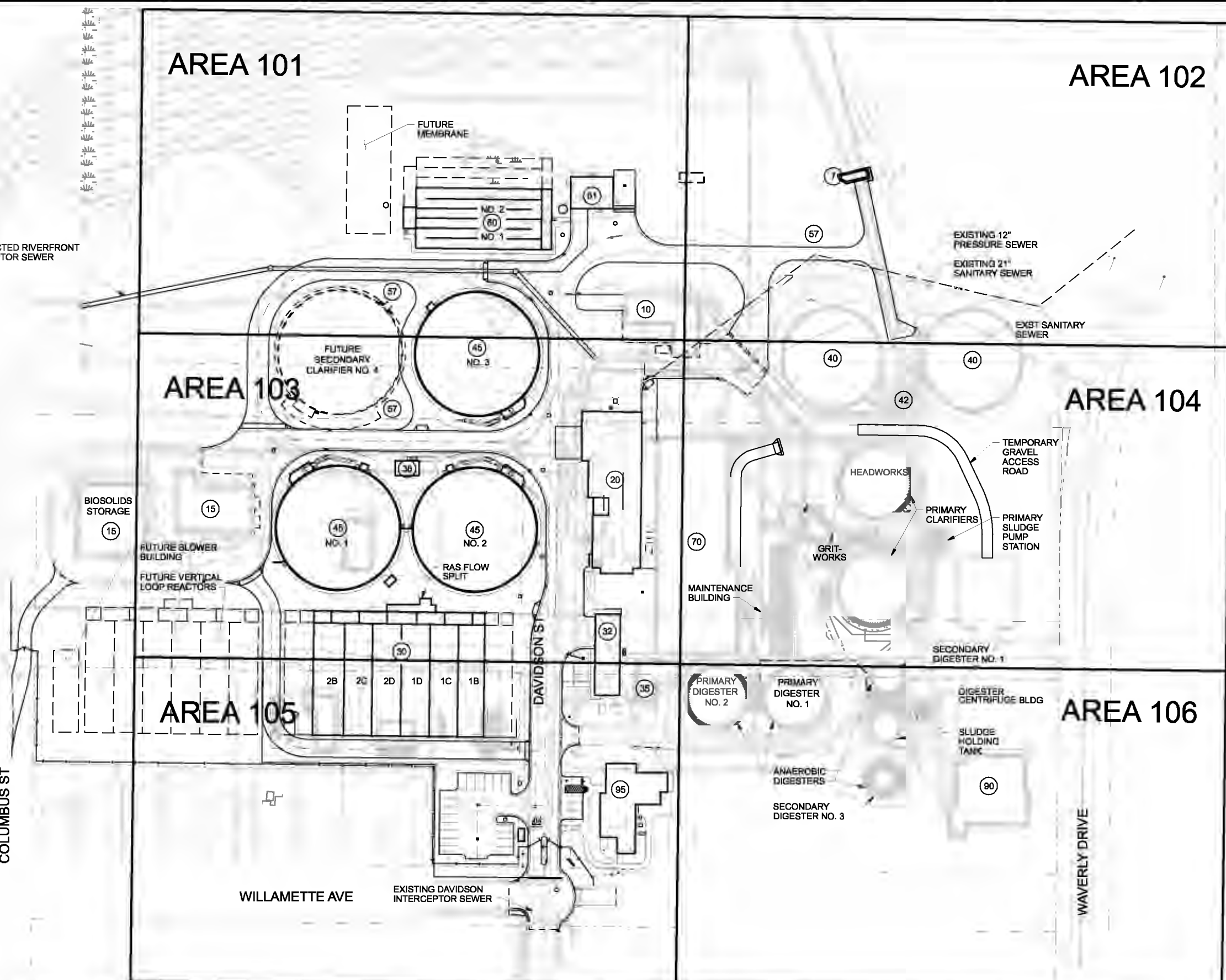
AREA 102

AREA 103

AREA 104

AREA 105

AREA 106



FACILITIES

- 7 NEW FLOW CONTROL STRUCTURE
- 10 EXISTING INFLUENT PUMP STATION MODIFICATIONS
- 15 EXISTING BIOSOLIDS DEWATERING BUILDING AND BIOSOLIDS STORAGE FACILITY MODIFICATIONS
- 20 NEW HEADWORKS
- 30 NEW VERTICAL LOOP REACTORS
- 32 NEW AERATION BLOWER BUILDING
- 35 EXISTING INTERCHANGE REACTOR BLOWER BUILDING MODIFICATIONS
- 38 NEW MIXED LIQUOR FLOW SPLIT STRUCTURE
- 40 EXISTING SECONDARY CLARIFIERS
- 42 EXISTING RAS/WAS PUMP STATION
- 45 NEW SECONDARY CLARIFIERS
- 57 NEW EFFLUENT JUNCTION BOXES (BURIED)
- 60 NEW CHLORINE CONTACT BASINS
- 61 NEW DISINFECTION BUILDING AND W3 PUMP STATION
- 70 EXISTING AERATION BASIN CONVERTED TO INTERCHANGE REACTORS/AEROBIC DIGESTERS
- 90 EXISTING OPERATIONS BUILDING
- 95 NEW CONTROL BUILDING

DSGN	JT ASHLEY						
DR	PALONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

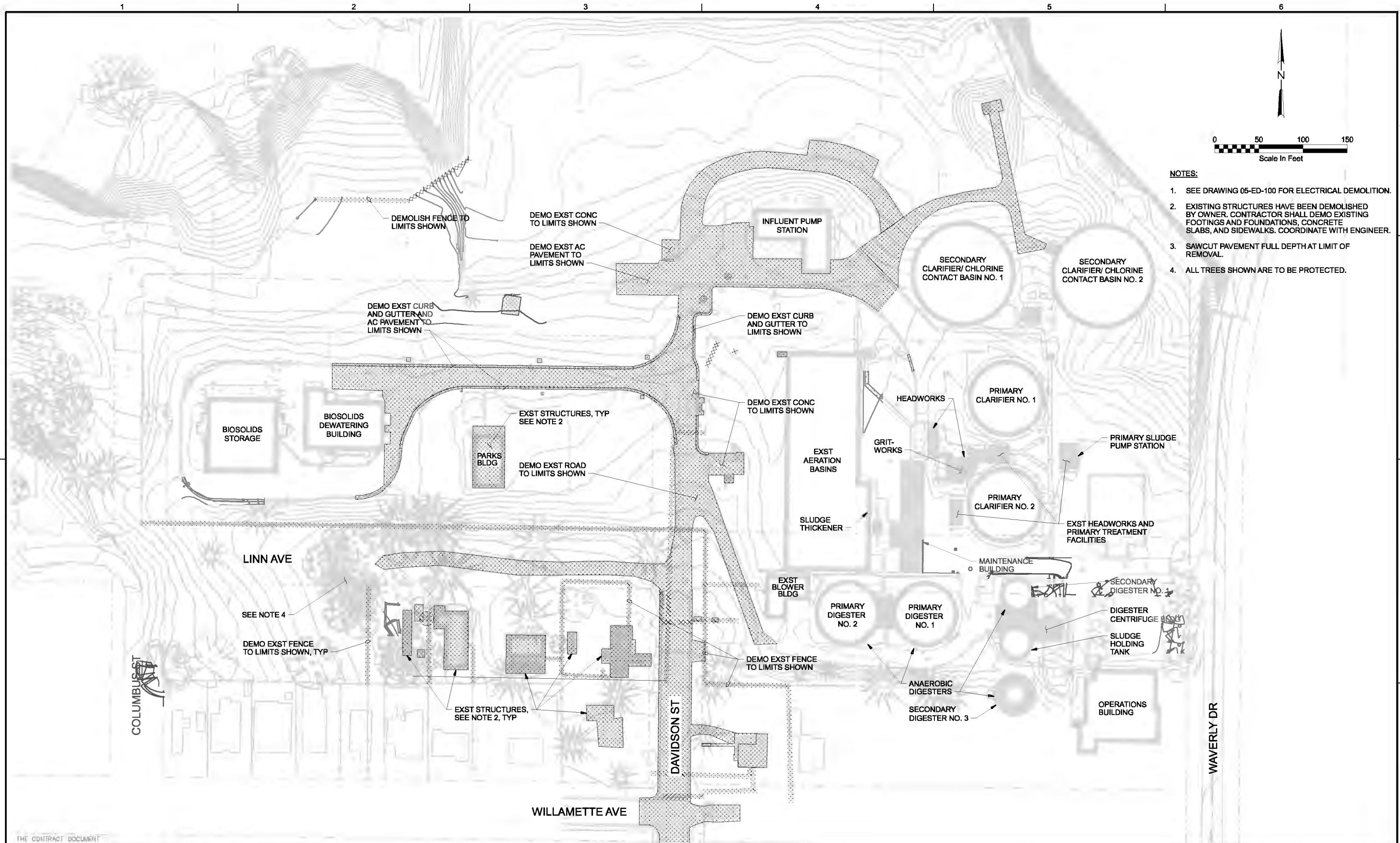


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
 CIVIL
 KEY PLAN

SHEET	125
DWG	05-C-101
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
1. SEE DRAWING 05-ED-100 FOR ELECTRICAL DEMOLITION.
 2. EXISTING STRUCTURES HAVE BEEN DEMOLISHED BY OWNER. CONTRACTOR SHALL DEMO EXISTING FOOTINGS AND FOUNDATIONS, CONCRETE SLABS, AND SIDEWALKS. COORDINATE WITH ENGINEER.
 3. SAWCUT PAVEMENT FULL DEPTH AT LIMIT OF REMOVAL.
 4. ALL TREES SHOWN ARE TO BE PROTECTED.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 2006 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 60132PE.

DSGN	JT ASHLEY						
DR	PALONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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0 1"
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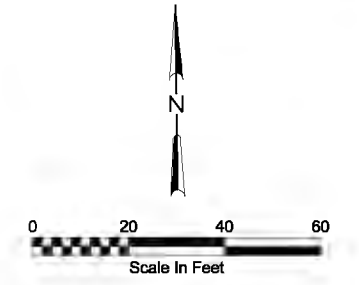
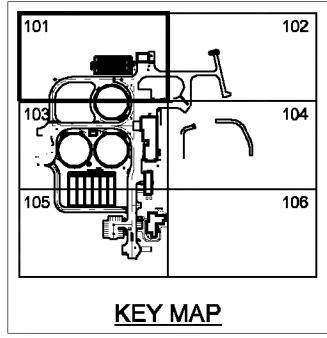


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

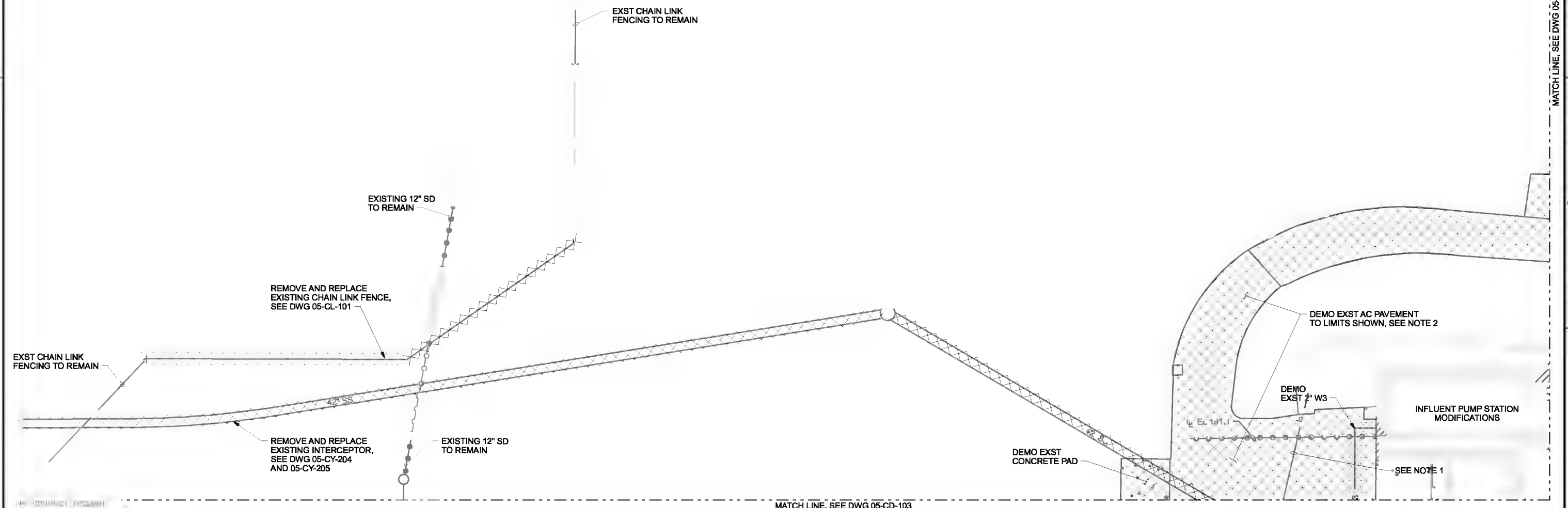
SITE DEVELOPMENT
OVERALL DEMOLITION PLAN

SHEET	126
DWG	05-CD-100
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
- SEE DWG 05-ED-100 FOR ELECTRICAL DEMOLITION.
 - EXISTING PAVEMENT MAY BE REMOVED BY DIAMOND GRINDING AND REUSED AS BASE COURSE, PROVIDED THAT IT MEETS BASE COURSE REQUIREMENTS, AS SPECIFIED.



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.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS OF EXISTING UTILITIES AND STRUCTURES PRIOR TO DEMOLITION. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.

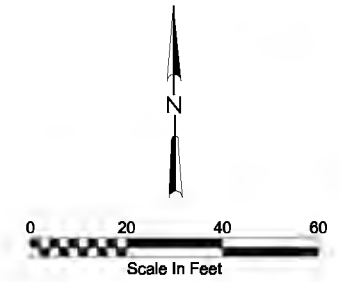
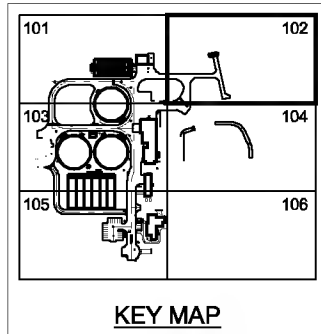
DSGN	JT ASHLEY									
DR	PALONG									
CHK	DJ PETERSON	01/20/10								
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD				

VERIFY SCALE
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 0" = 1"
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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
DEMOLITION PLAN
 AREA 101

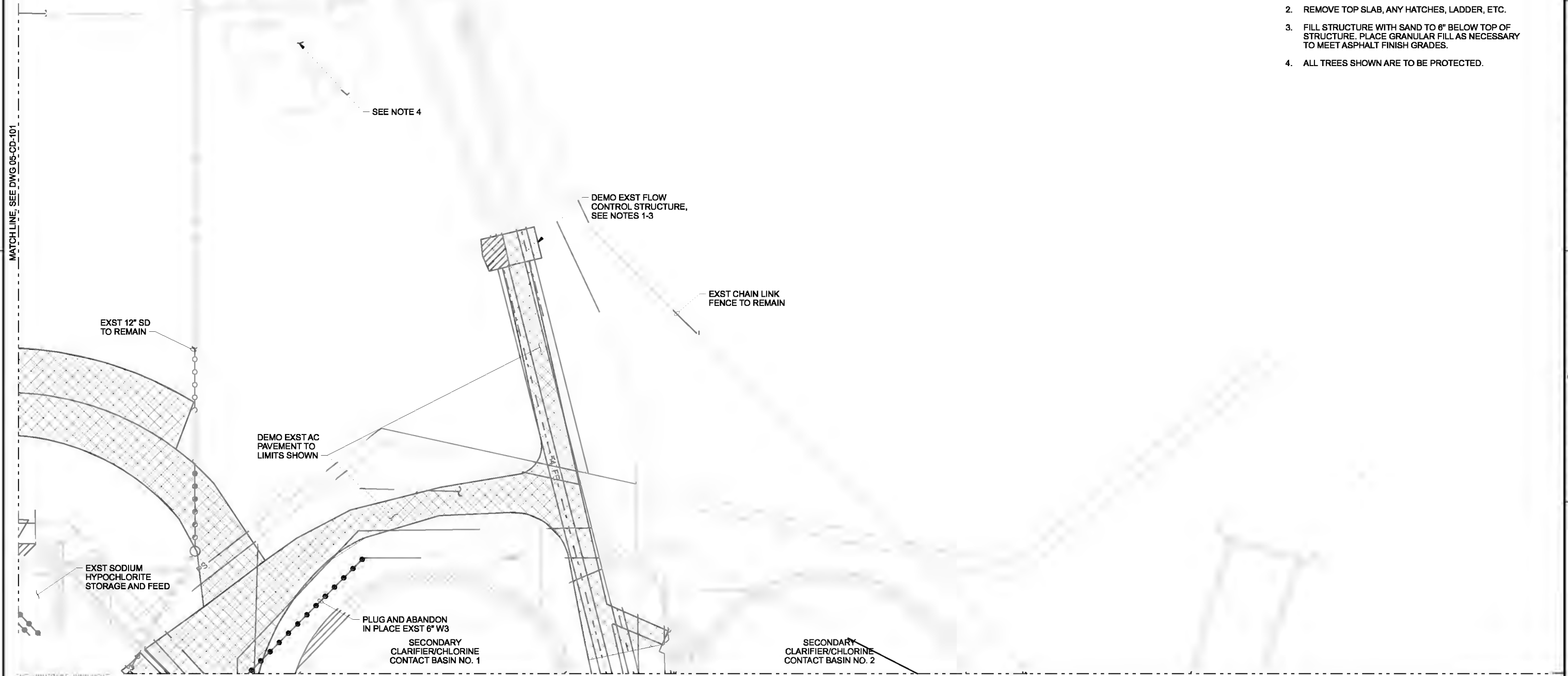
SHEET	127
DWG	05-CD-101
DATE	MAY 19 2006
PROJ	326918



NOTES:

1. BREAK MINIMUM 3" DIAMETER HOLES IN FLOOR OF STRUCTURE FOR DRAINAGE.
2. REMOVE TOP SLAB, ANY HATCHES, LADDER, ETC.
3. FILL STRUCTURE WITH SAND TO 6" BELOW TOP OF STRUCTURE. PLACE GRANULAR FILL AS NECESSARY TO MEET ASPHALT FINISH GRADES.
4. ALL TREES SHOWN ARE TO BE PROTECTED.

MATCH LINE, SEE DWG 05-CD-101.



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, CONTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SCALED AND SIGNED AND SIGNED BY J.T. ASHLEY, STATE OF OREGON, P.E., NO. 100100001.

DSGN	JT ASHLEY	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT REVISION	NO. DATE	BY APVD
DR	PA LONG			
CHK	DJ PETERSON			
APVD	CW MASSIE			
		GTM	JAB	

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

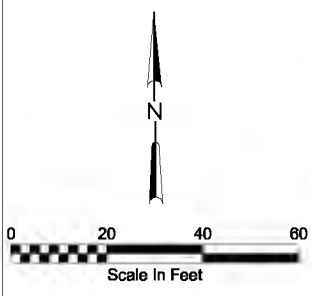
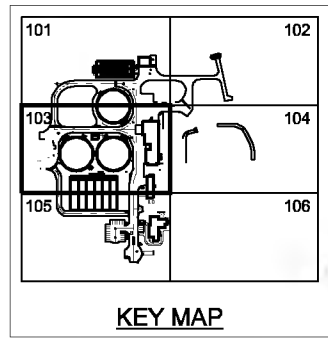
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
DEMOLITION PLAN
 AREA 102

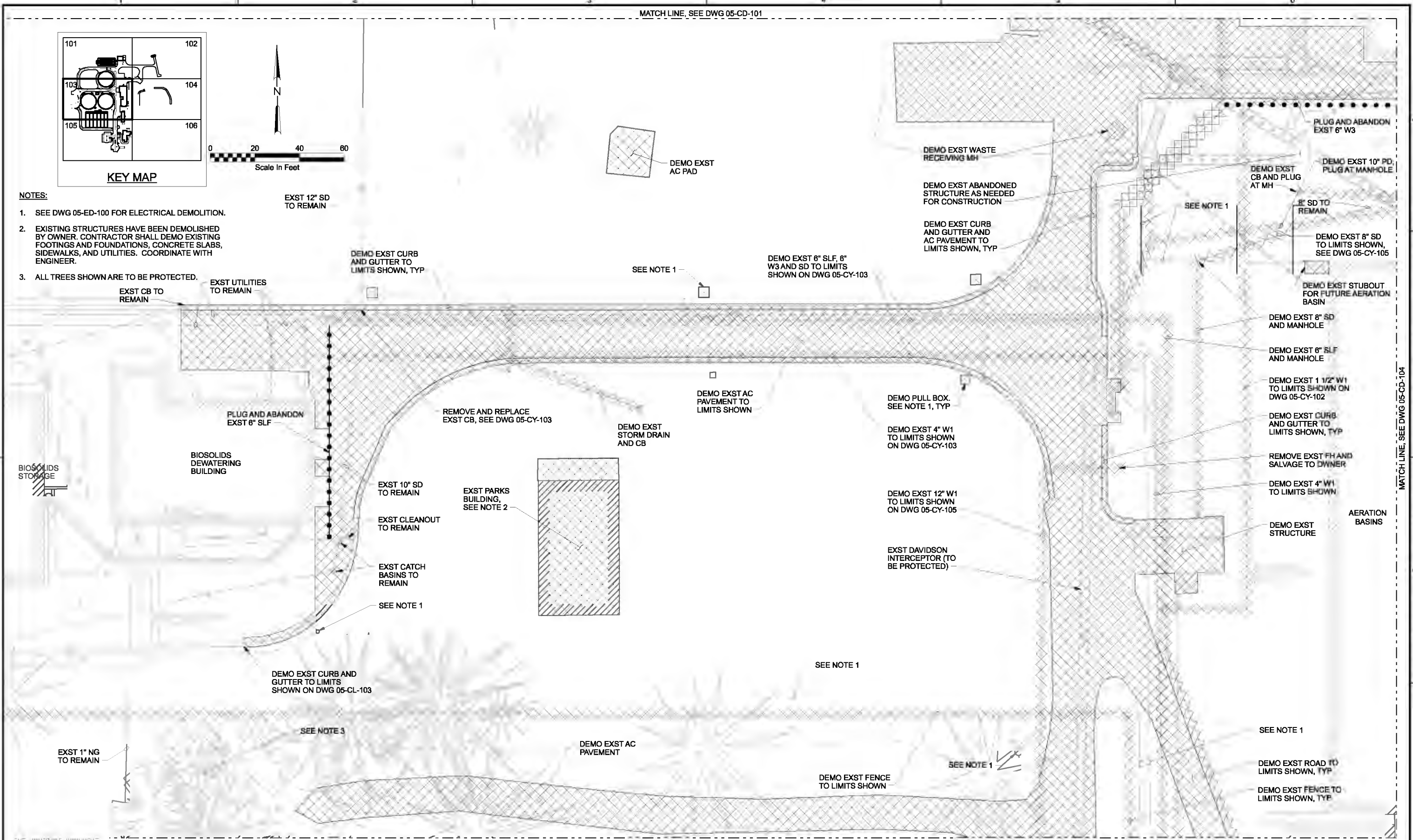
SHEET	128
DWG	05-CD-102
DATE	MAY 19 2006
PROJ	326918

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MATCH LINE, SEE DWG 05-CD-101



- NOTES:**
- SEE DWG 05-ED-100 FOR ELECTRICAL DEMOLITION.
 - EXISTING STRUCTURES HAVE BEEN DEMOLISHED BY OWNER. CONTRACTOR SHALL DEMO EXISTING FOOTINGS AND FOUNDATIONS, CONCRETE SLABS, SIDEWALKS, AND UTILITIES. COORDINATE WITH ENGINEER.
 - ALL TREES SHOWN ARE TO BE PROTECTED.



THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SCALED AND SIGNED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DIMENSIONS AND CHARACTER OF THE WORK.

DSGN	JT ASHLEY						
DR	PA LONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
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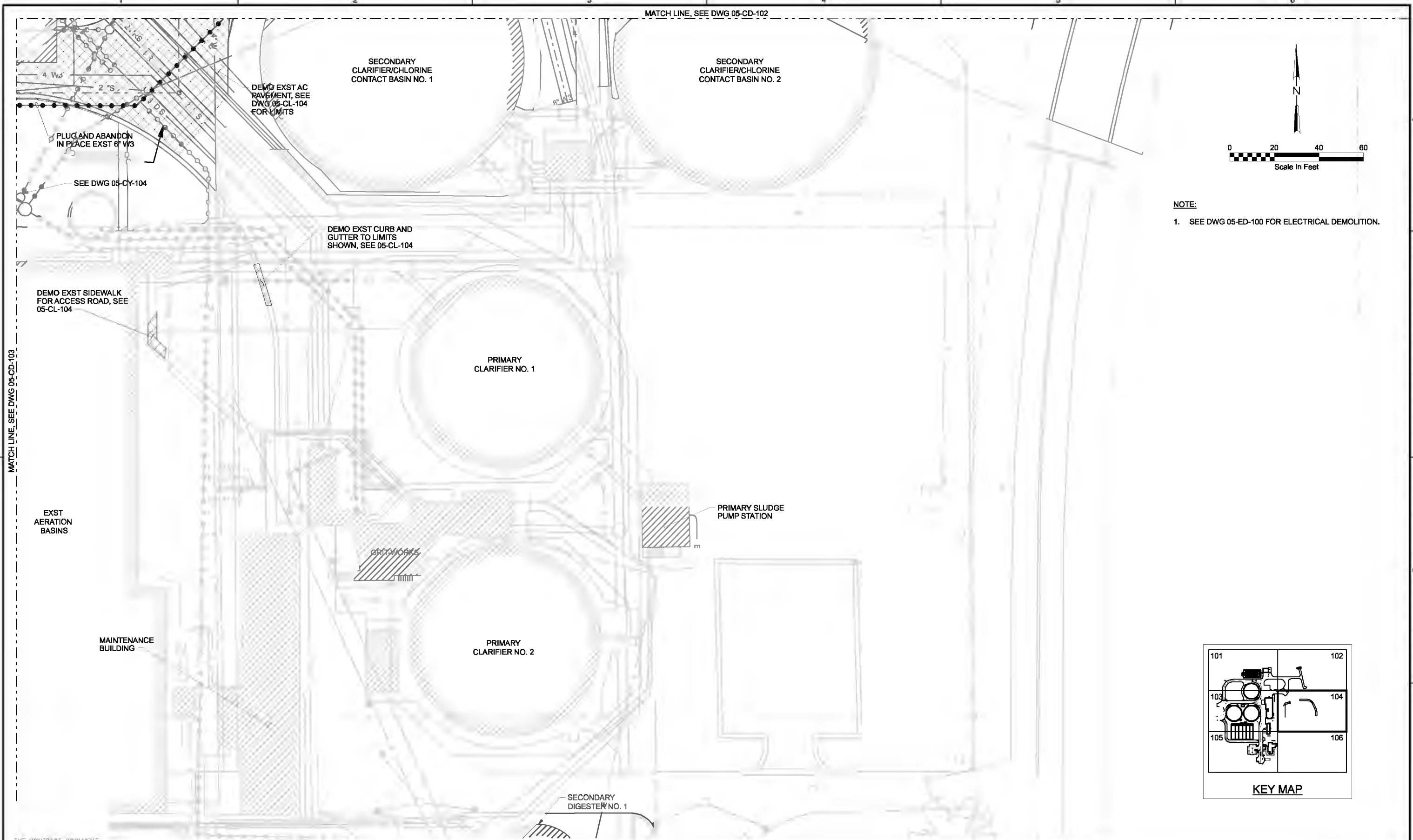
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
DEMOLITION PLAN
 AREA 103

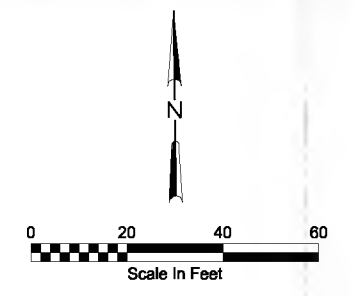
SHEET	129
DWG	05-CD-103
DATE	MAY 19 2006
PROJ	326918

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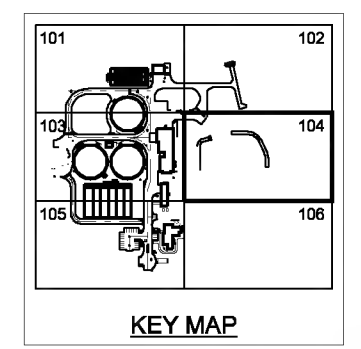
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MATCH LINE, SEE DWG 05-CD-102



NOTE:
 1. SEE DWG 05-ED-100 FOR ELECTRICAL DEMOLITION.



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DSGN	JT ASHLEY						
DR	PA LONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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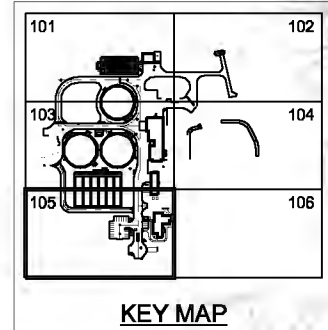


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

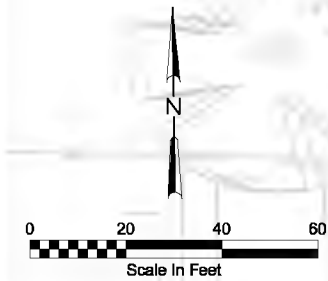
SITE DEVELOPMENT
 DEMOLITION PLAN
 AREA 104

SHEET	130
DWG	05-CD-104
DATE	MAY 19 2006
PROJ	326918

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KEY MAP



NOTES:

1. SEE DWG 05-ED-100 FOR ELECTRICAL DEMOLITION.
2. EXISTING STRUCTURES HAVE BEEN DEMOLISHED BY OWNER. CONTRACTOR SHALL DEMO EXISTING FOOTINGS AND FOUNDATIONS, CONCRETE SLABS, SIDEWALKS, AND UTILITIES. COORDINATE WITH ENGINEER.
3. ALL TREES SHOWN ARE TO BE PROTECTED.

11S03W05DB00200 11S03W05DB00206 11S03W05DB00205 11S03W05DB00901 11S03W05DB00900 11S03W05DB00800 11S03W05DB00700

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SCALED AND ISSUED MAY 2006 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 60139C.

DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD
DR	PA LONG					
CHK	DJ PETERSON					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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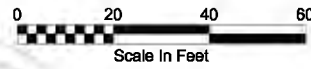
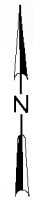
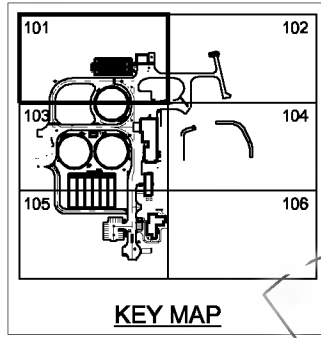


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
DEMOLITION PLAN
AREA 105

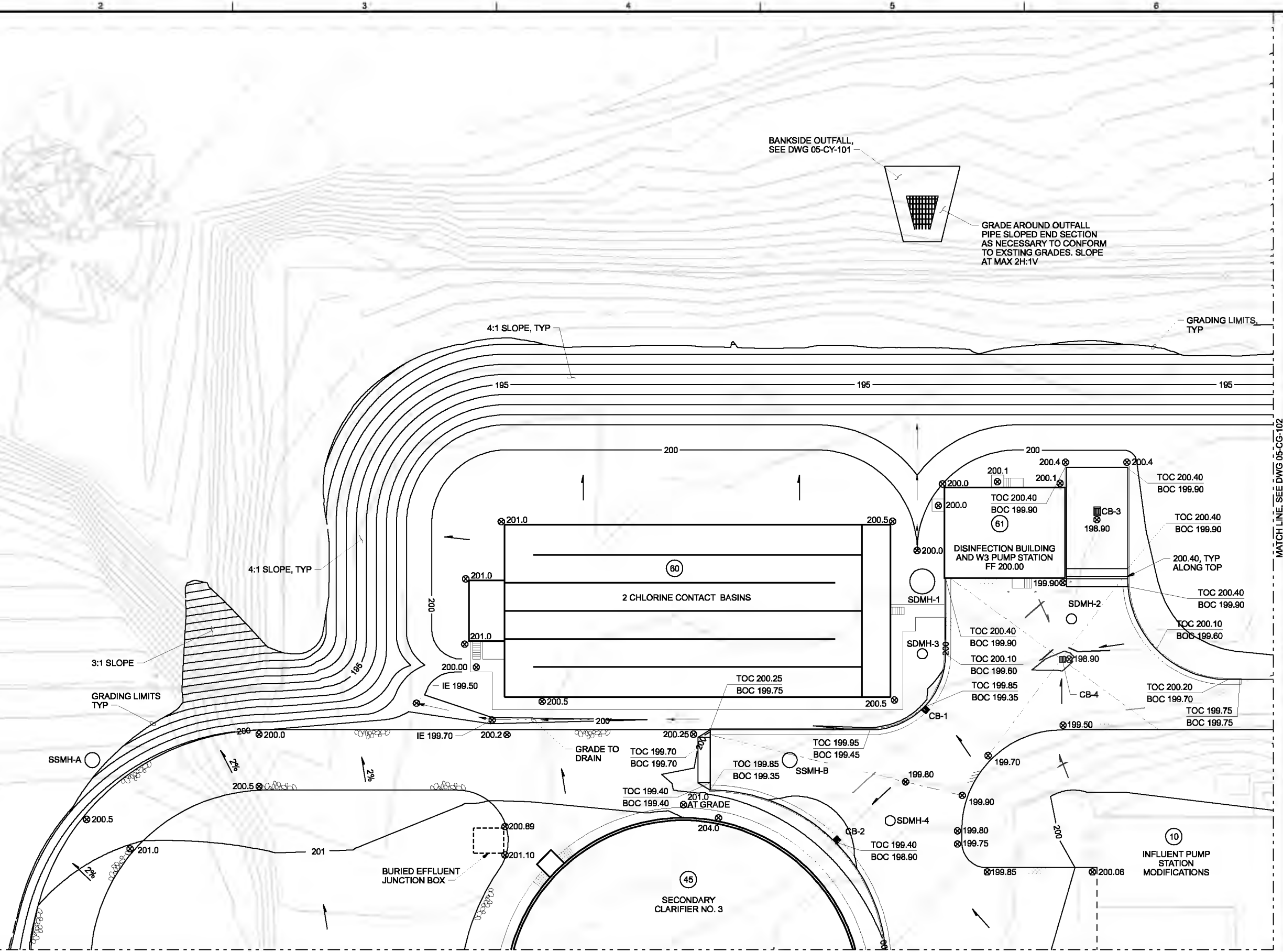
SHEET	131
DWG	05-CD-105
DATE	MAY 19 2006
PROJ	326918

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NOTES:

- ELEVATIONS GIVEN ARE TO FINISH GRADE OR TOP OF CURB UNLESS NOTED OTHERWISE.
 - FOR MANHOLE AND CATCH BASIN LOCATIONS AND RIM/TOG ELEVATIONS, SEE YARD PIPING DRAWINGS.
 - UNLESS SHOWN OTHERWISE ON LANDSCAPING PLAN, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACING SHALL BE COVERED WITH NATIVE GRASS.
 - SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 01-G-16.



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SCALED AND SIGNED MAY 2006 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 60132PC.

DSGN	JT ASHLEY						
DR	PALONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
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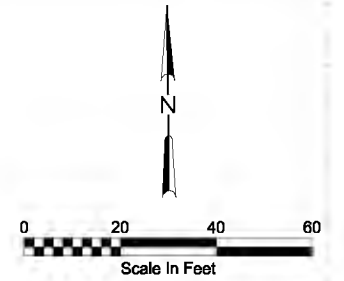
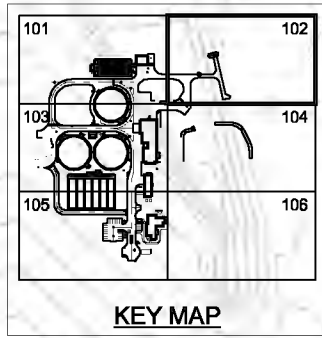
CH2MHILL **CAROLLO** engineers

CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT	SHEET	132
GRADING PLAN	DWG	05-CG-101
AREA 101	DATE	MAY 19 2006
	PROJ	326918

FILENAME: 05nsg101d_326918.dgn PLOT DATE: 2/26/2010 PLOT TIME: 2:15:14 PM

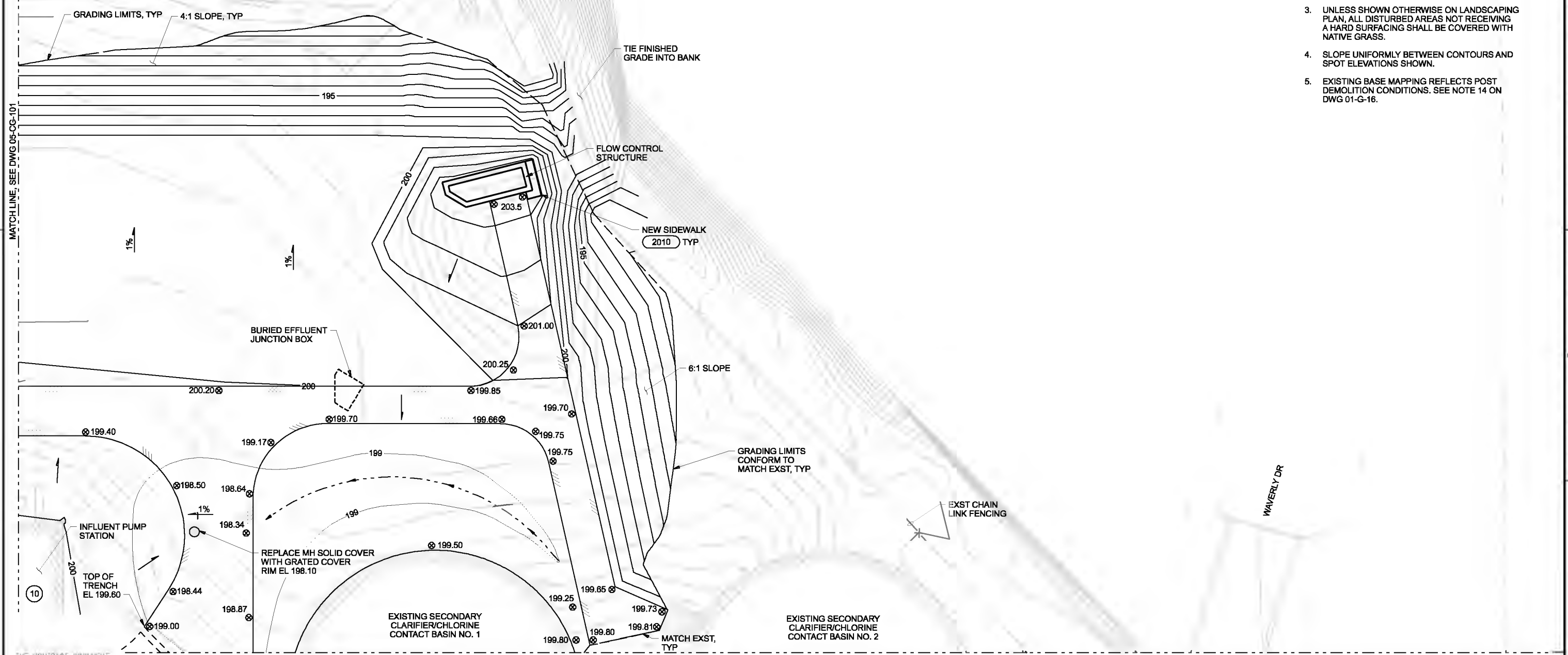
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NOTES:

1. ELEVATIONS GIVEN ARE TO FINISH GRADE OR TOP OF CURB UNLESS NOTED OTHERWISE.
2. FOR MANHOLE AND CATCH BASIN LOCATIONS, SEE YARD PIPING DRAWINGS.
3. UNLESS SHOWN OTHERWISE ON LANDSCAPING PLAN, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACING SHALL BE COVERED WITH NATIVE GRASS.
4. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
5. EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 01-G-16.

MATCH LINE, SEE DWG 05-CG-101



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SCALED AND SIGNED MAY 2006 BY JAMES T. ASHLEY, STATE OF OREGON, P.E. NO. 50139C.

DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD
DR	PALONG					
CHK	DJ PETERSON					
APVD	CW MASSIE					
(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT		GTM	JAB			
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.						

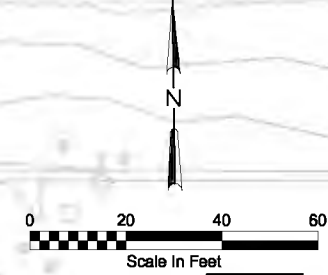
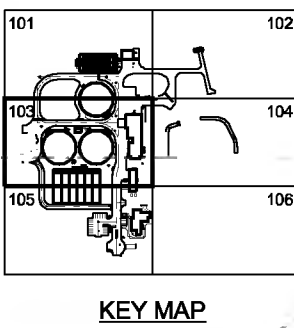
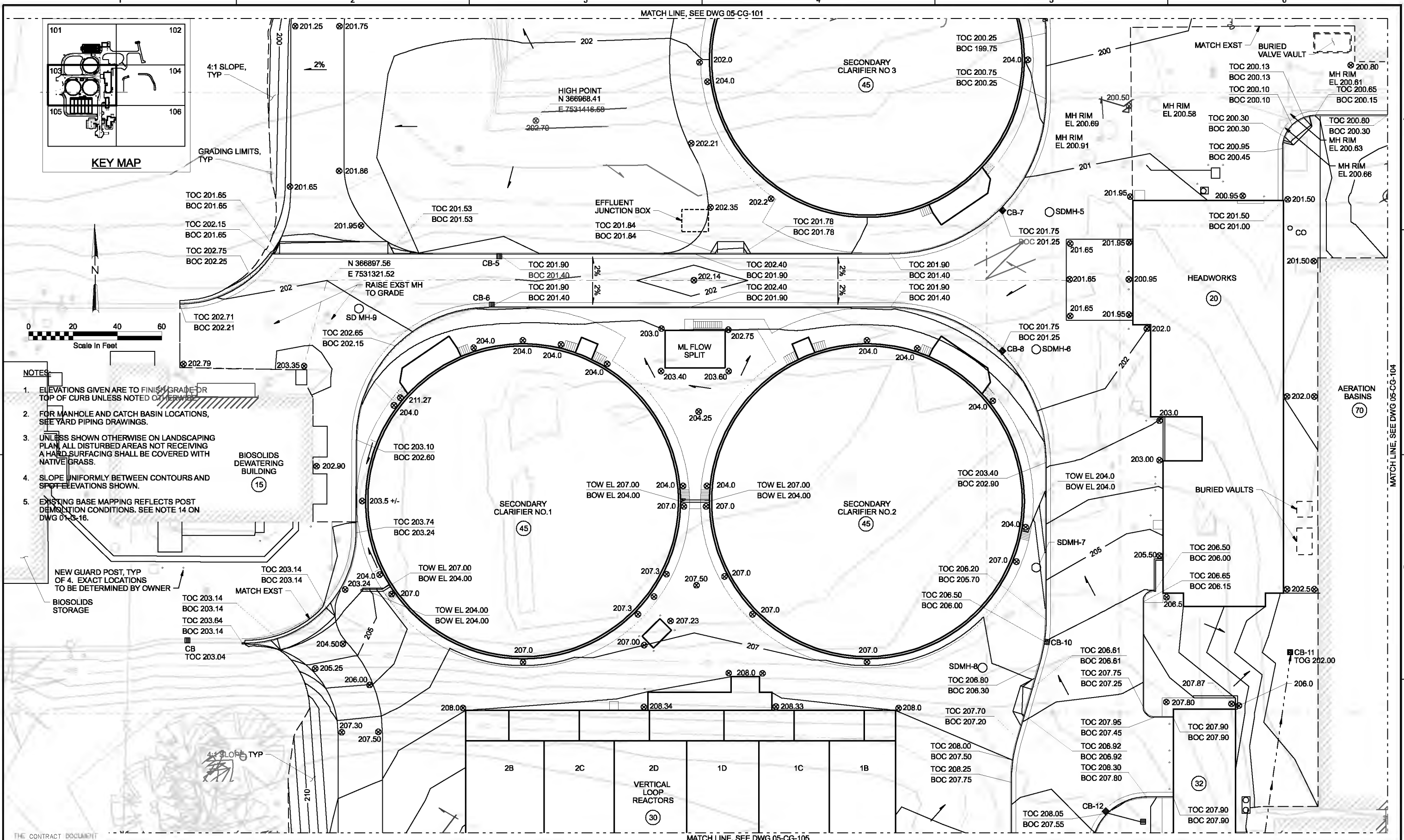


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
**GRADING PLAN
AREA 102**

SHEET	133
DWG	05-CG-102
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
- ELEVATIONS GIVEN ARE TO FINISH GRADE OR TOP OF CURB UNLESS NOTED OTHERWISE.
 - FOR MANHOLE AND CATCH BASIN LOCATIONS, SEE YARD PIPING DRAWINGS.
 - UNLESS SHOWN OTHERWISE ON LANDSCAPING PLAN, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACING SHALL BE COVERED WITH NATIVE GRASS.
 - SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
 - EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 05-CG-16.

NEW GUARD POST, TYP OF 4. EXACT LOCATIONS TO BE DETERMINED BY OWNER.

BIOSOLIDS STORAGE

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 2006 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 50132PE.

DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD
DR	PALONG					
CHK	DJ PETERSON					
AFVD	CW MASSIE					
(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT		GTM	JAB			

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



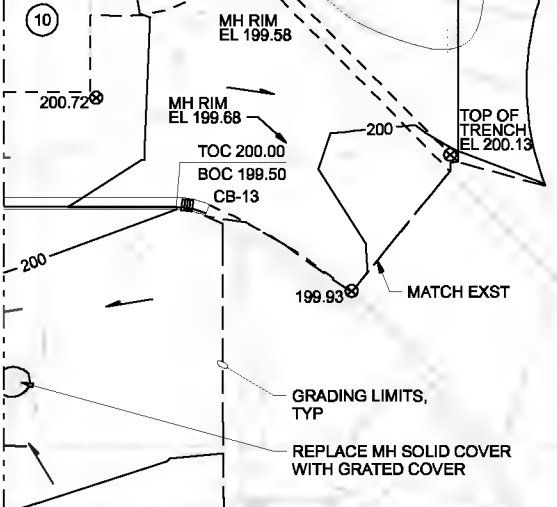
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
GRADING PLAN
 AREA 103

SHEET	134
DWG	05-CG-103
DATE	MAY 19 2006
PROJ	326918

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.

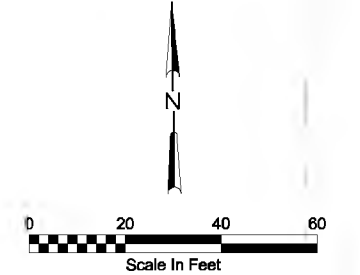
MATCH LINE, SEE DWG 05-CG-102



SECONDARY CLARIFIER/CHLORINE CONTACT BASIN NO. 1

SECONDARY CLARIFIER/CHLORINE CONTACT BASIN NO. 2

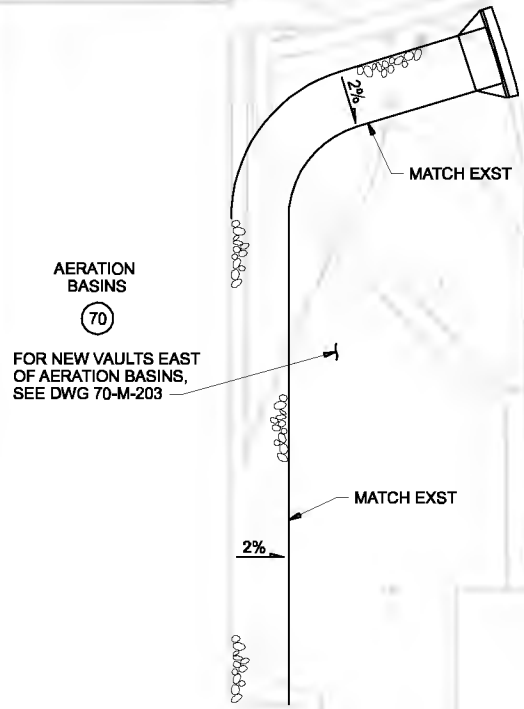
COORDINATE ROAD LOCATION AND GRADES WITH EXISTING FEATURES



NOTES:

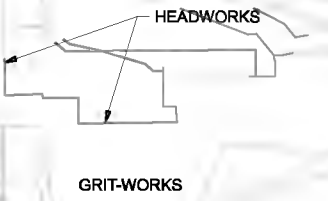
- ELEVATIONS GIVEN ARE TO FINISH GRADE OR TOP OF CURB UNLESS NOTED OTHERWISE.
- FOR MANHOLE AND CATCH BASIN LOCATIONS, SEE YARD PIPING DRAWINGS.
- UNLESS SHOWN OTHERWISE ON LANDSCAPING PLAN, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACING SHALL BE COVERED WITH NATIVE GRASS.
- SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 01-G-16.

MATCH LINE, SEE DWG 05-CG-103



PRIMARY CLARIFIER NO. 1

PRIMARY CLARIFIER NO. 2

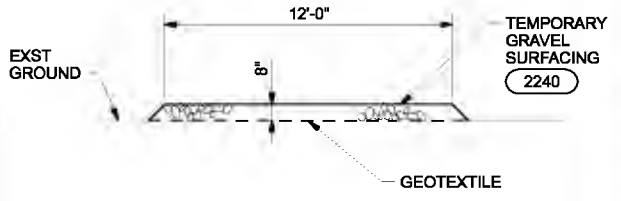


PRIMARY SLUDGE PUMP STATION

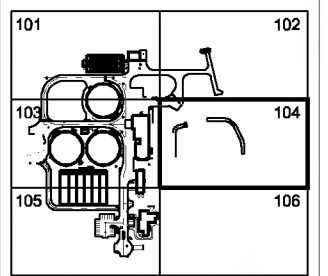
EXST PARKING LOT

TEMPORARY GRAVEL ACCESS ROAD REMOVE UPON PROJECT COMPLETION

PROVIDE TEMPORARY ACCESS CURB RAMP



SECTION A



KEY MAP

MATCH LINE, SEE DWG 05-CG-106

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SCALED AND ISSUED MAY 2006 BY JIMMY T. ASHLEY, STATE OF OREGON, P.E. NO. 50139C.

DSGN	JT ASHLEY																		
DR	PALONG																		
CHK	DJ PETERSON	01/20/10																	
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD													

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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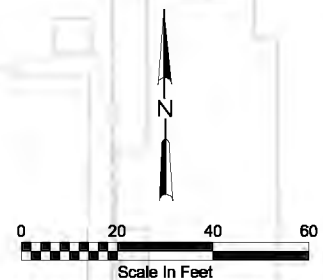
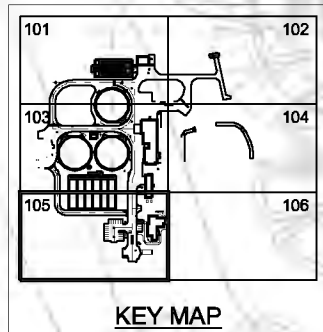


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
GRADING PLAN
AREA 104

SHEET	135
DWG	05-CG-104
DATE	MAY 19 2006
PROJ	326918

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NOTES:

1. ELEVATIONS GIVEN ARE TO FINISH GRADE OR TOP OF CURB UNLESS NOTED OTHERWISE.
2. FOR MANHOLE AND CATCH BASIN LOCATIONS, SEE YARD PIPING DRAWINGS.
3. UNLESS SHOWN OTHERWISE ON LANDSCAPING PLAN, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACING SHALL BE COVERED WITH NATIVE GRASS.
4. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
5. EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 01-G-16.
6. 2 - 3" PERFORATED DRAIN PIPES ENCASED IN DRAIN ROCK.

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DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD
DR	PALONG					
CHK	DJ PETERSON					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

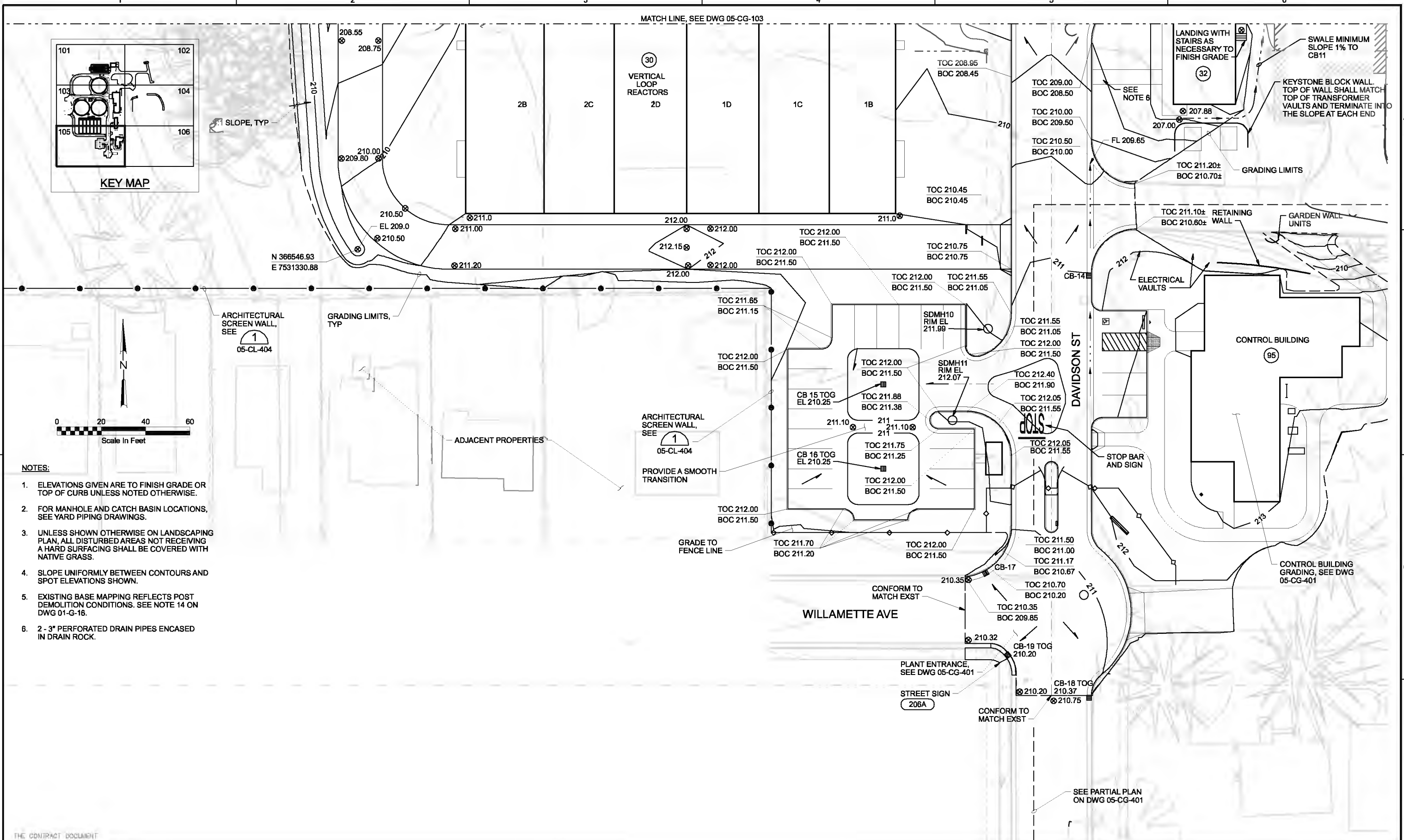
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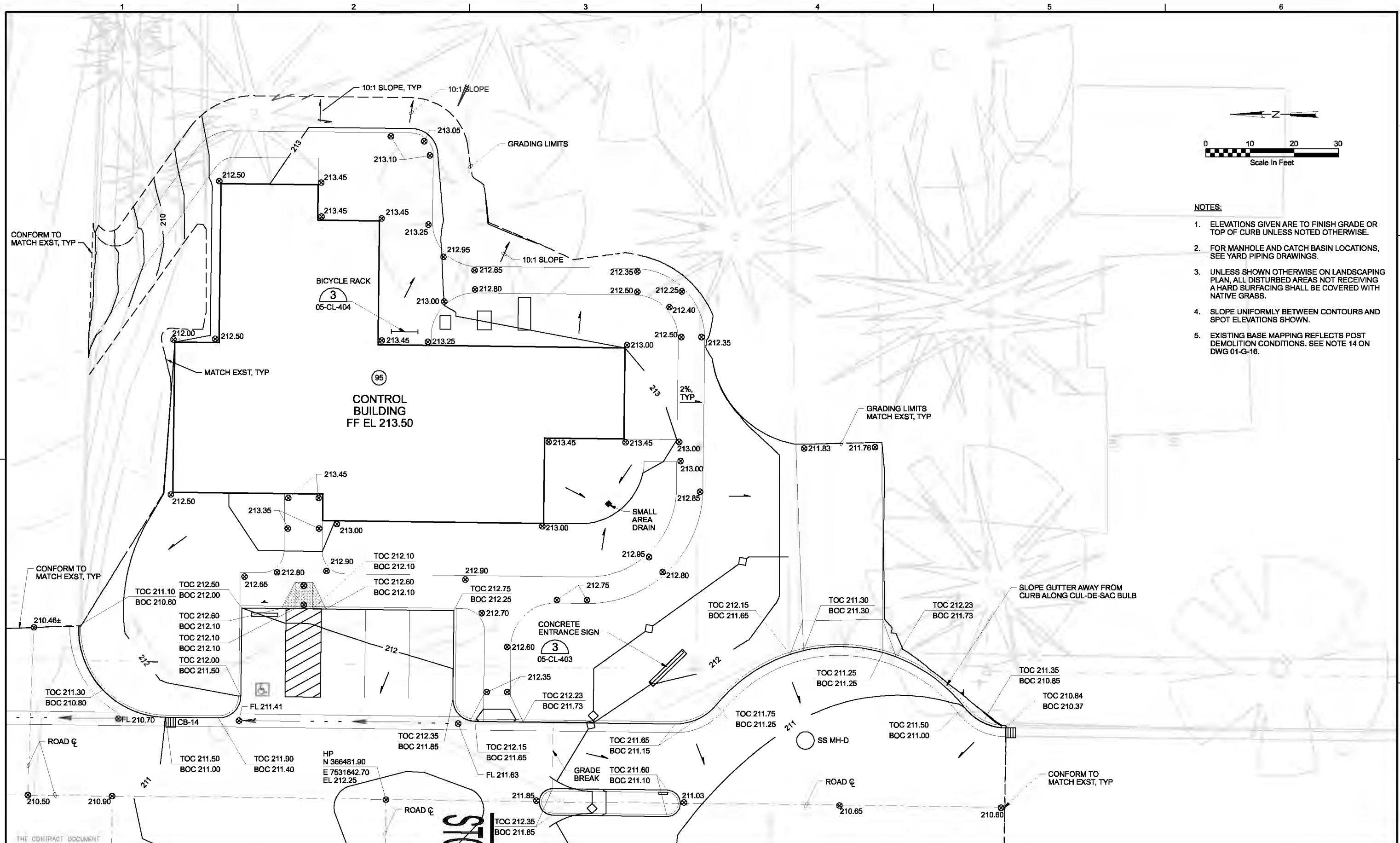
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
GRADING PLAN
 AREA 105

SHEET	136
DWG	05-CG-105
DATE	MAY 19 2006
PROJ	326918



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DSGN	JT ASHLEY				
DR	SR REDDELL				
CHK	DJ PETERSON	01/20/10			
APVD	CW MASSIE	NO.	DATE	REVISION	BY

VERIFY SCALE
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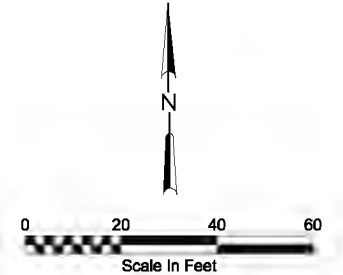
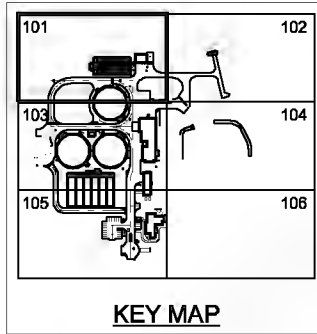


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

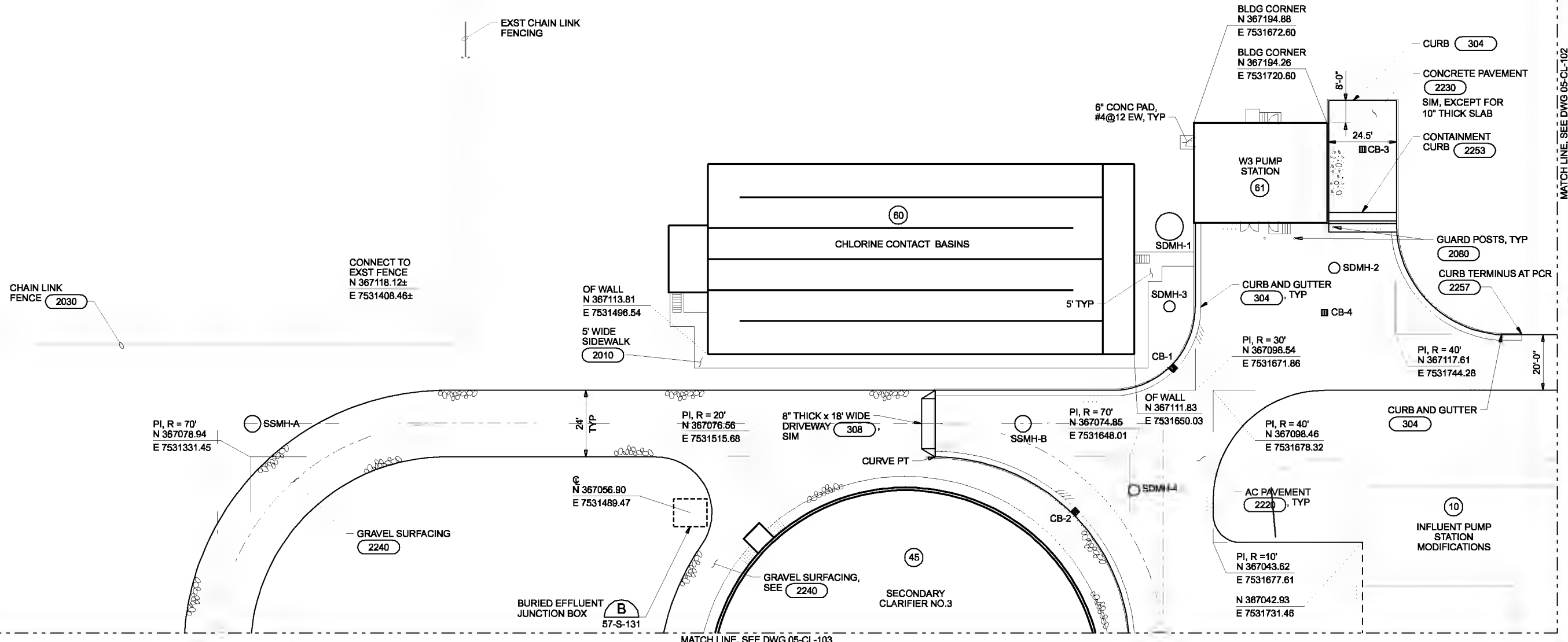
SITE DEVELOPMENT
**SITE GRADING
 PARTIAL PLAN**

SHEET	137
DWG	05-CG-401
DATE	MAY 19 2006
PROJ	326918

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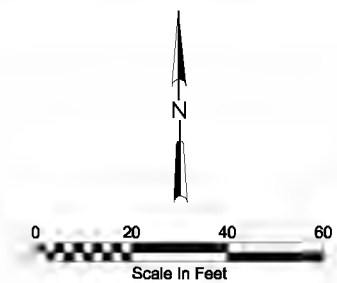
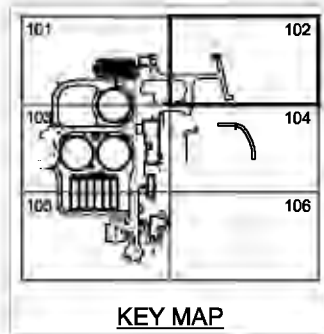
- NOTES:**
- DIMENSIONS AND COORDINATES SHOWN ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN. STRUCTURAL COORDINATES SHOWN ARE TO OUTSIDE OF FOUNDATION WALLS. FOOTINGS ARE NOT SHOWN FOR CLARITY.
 - FOR MANHOLE AND CATCH BASIN LOCATIONS, SEE YARD PIPING DRAWINGS.
 - SEE ADDITIONAL SITE NOTES ON DWG 01-G-16.
 - EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 01-G-16.



DSGN JT ASHLEY				VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.		CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENT PROJECT WWTP-03-01 LINN COUNTY, OREGON	SITE DEVELOPMENT LOCATION PLAN AREA 101	SHEET 138
DR PALONG				(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT				DWG 05-CL-101
CHK DJ PETERSON	01/20/10							
APVD CW MASSIE	NO.	DATE	REVISION	BY	APVD			

FILENAME: 05nc101d_200616.dgn PLOT DATE: 2/28/2010 PLOT TIME: 2:15:52 PM

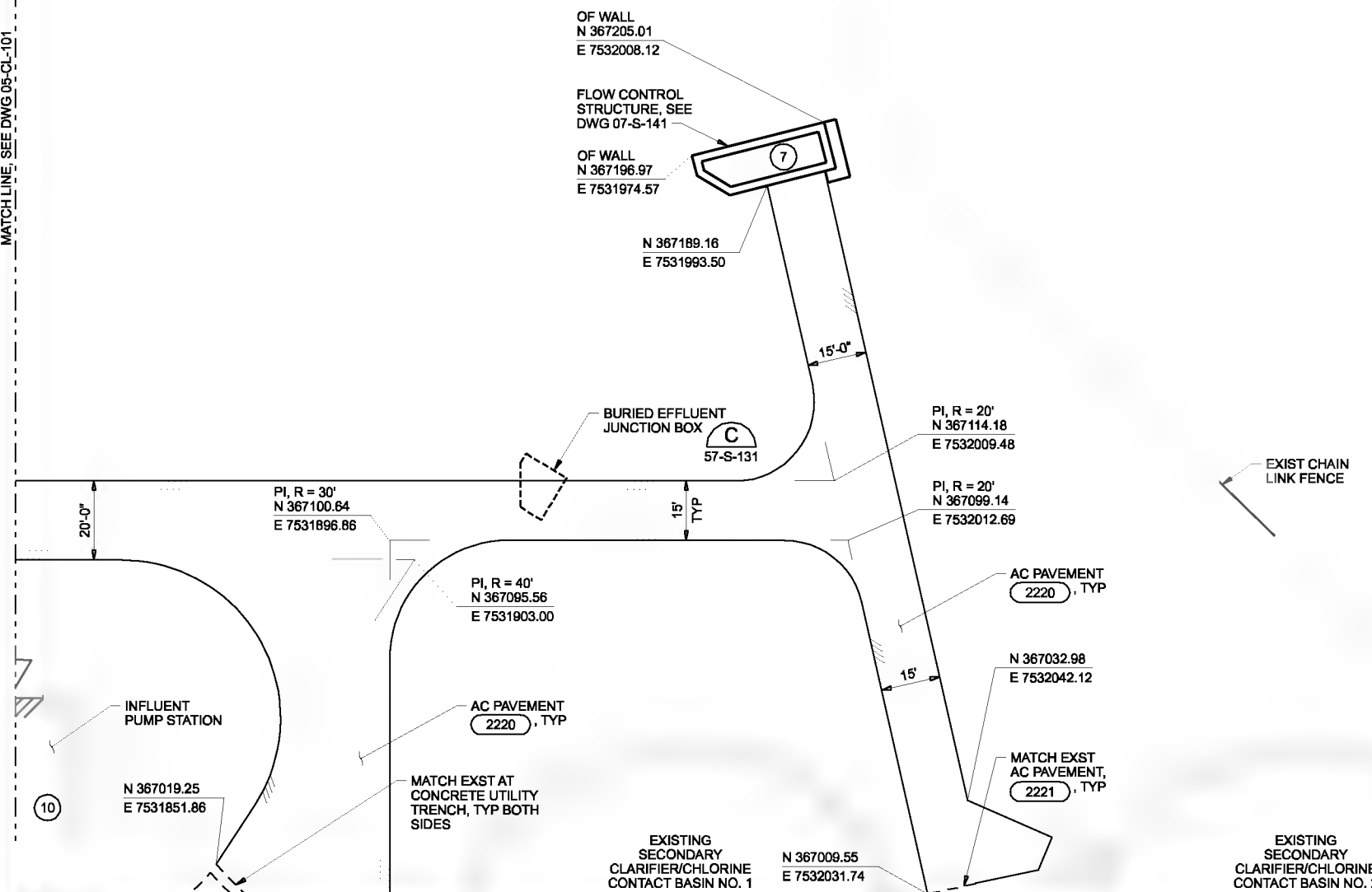
REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL CAROLLO ENGINEERS. IT IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL CAROLLO ENGINEERS.



NOTES:

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2. PROVIDE PAVEMENT CONNECTION AT ALL PAVING LIMITS, TYP (2221)
3. FOR MANHOLE AND CATCH BASIN LOCATIONS, SEE YARD PIPING DRAWINGS.
4. SEE ADDITIONAL SITE NOTES ON DWG 01-G-16.
5. EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 01-G-16.

MATCH LINE, SEE DWG 05-CL-101



EXIST CHAIN LINK FENCE

WAVERLY DR

MATCH LINE, SEE DWG 05-CL-104

DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD	GTM	JAB	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	PA LONG								
CHK	DJ PETERSON								
APVD	CW MASSIE								

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

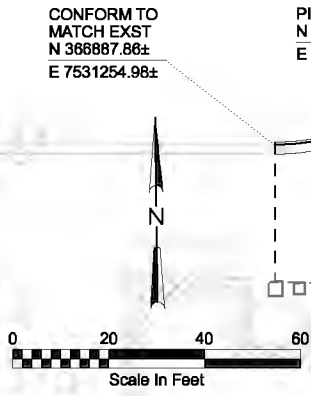
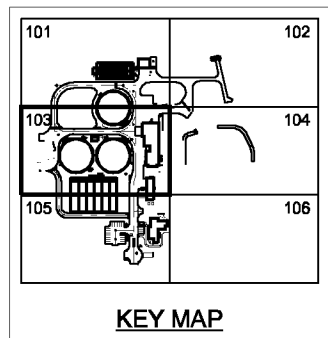


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

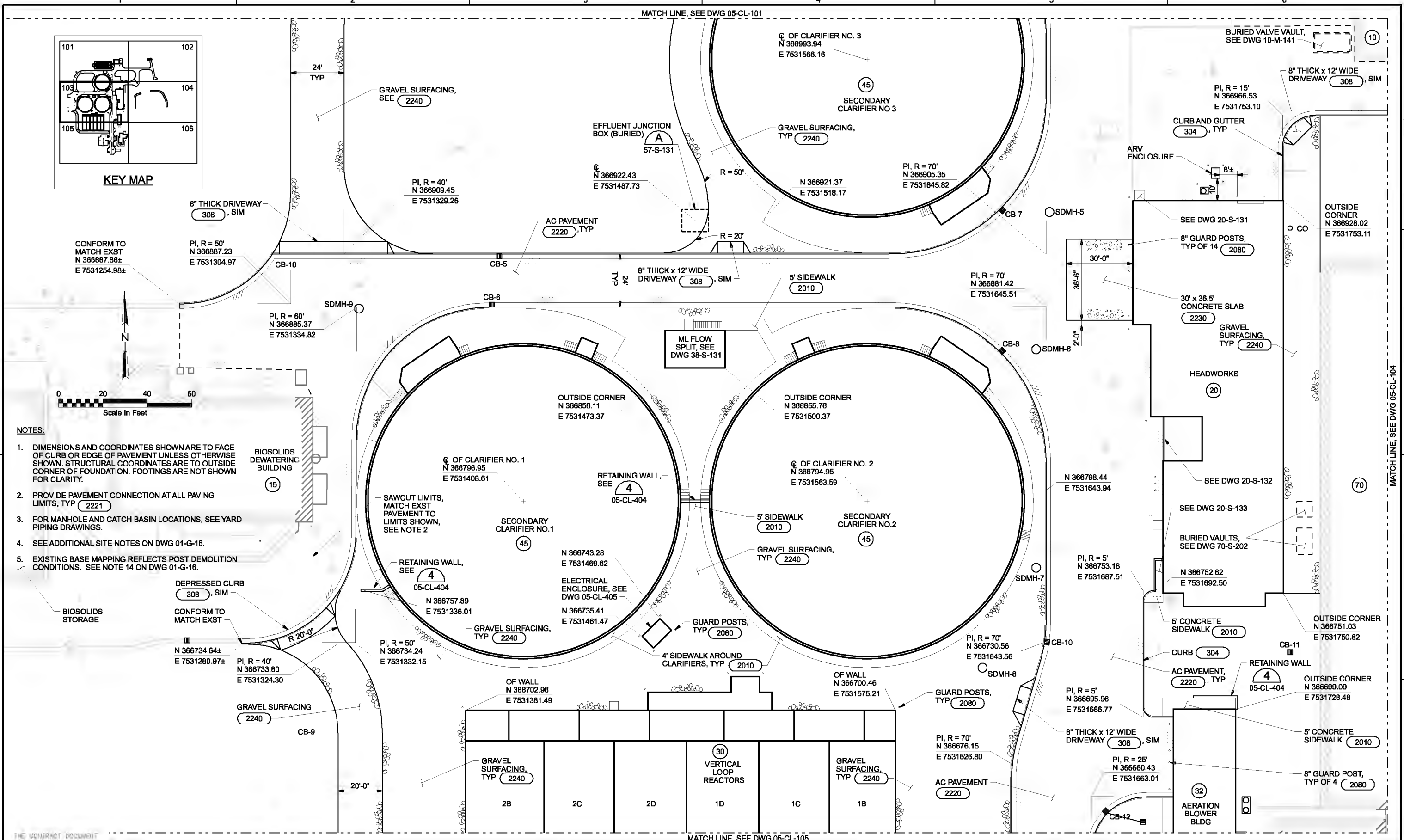
SITE DEVELOPMENT
LOCATION PLAN
AREA 102

SHEET	139
DWG	05-CL-102
DATE	MAY 19 2006
PROJ	326918

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 - PROVIDE PAVEMENT CONNECTION AT ALL PAVING LIMITS, TYP (2221)
 - FOR MANHOLE AND CATCH BASIN LOCATIONS, SEE YARD PIPING DRAWINGS.
 - SEE ADDITIONAL SITE NOTES ON DWG 01-G-16.
 - EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 01-G-16.



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, CONTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SCALED AND SIGNED BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 50130RE.

DSGN	JT ASHLEY				
DR	PALONG				
CHK	DJ PETERSON	01/20/10			
APVD	CW MASSIE	NO.	DATE	REVISION	BY

VERIFY SCALE
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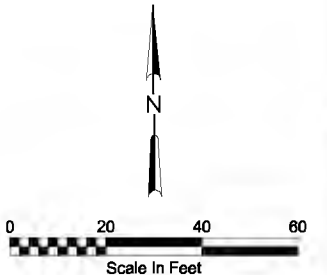
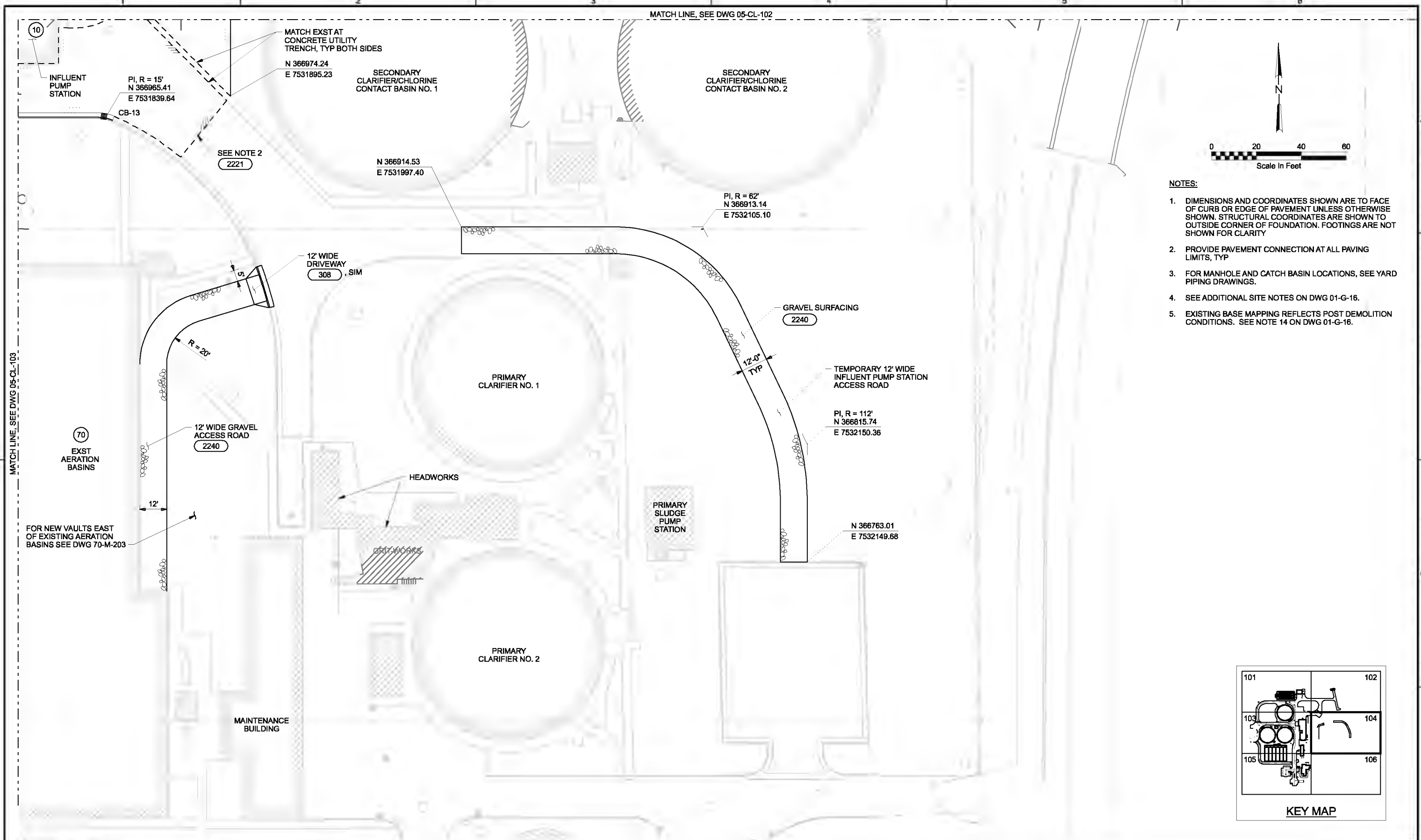


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
LOCATION PLAN
 AREA 103

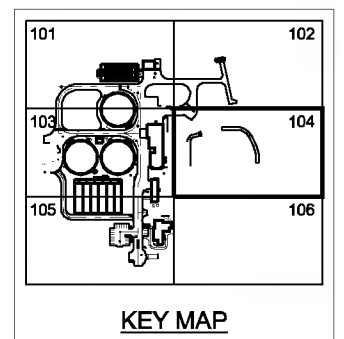
SHEET	140
DWG	05-CL-103
DATE	MAY 19 2006
PROJ	326918

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NOTES:

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3. FOR MANHOLE AND CATCH BASIN LOCATIONS, SEE YARD PIPING DRAWINGS.
4. SEE ADDITIONAL SITE NOTES ON DWG 01-G-16.
5. EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 01-G-16.



MATCH LINE, SEE DWG 05-CL-103

MATCH LINE, SEE DWG 05-CL-102

MATCH LINE, SEE DWG 05-CL-106

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 2006 BY JAMES T. ASHLEY, STATE OF OREGON, P.E., NO. 50139C.

DSGN	JT ASHLEY							
DR	PA LONG							
CHK	DJ PETERSON	01/20/10						
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD		

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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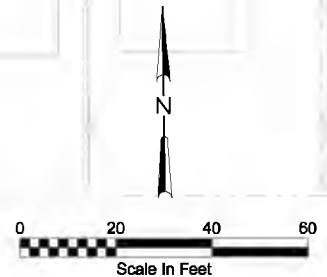
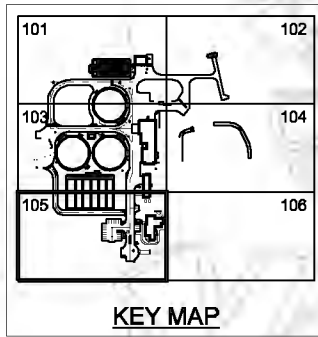


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

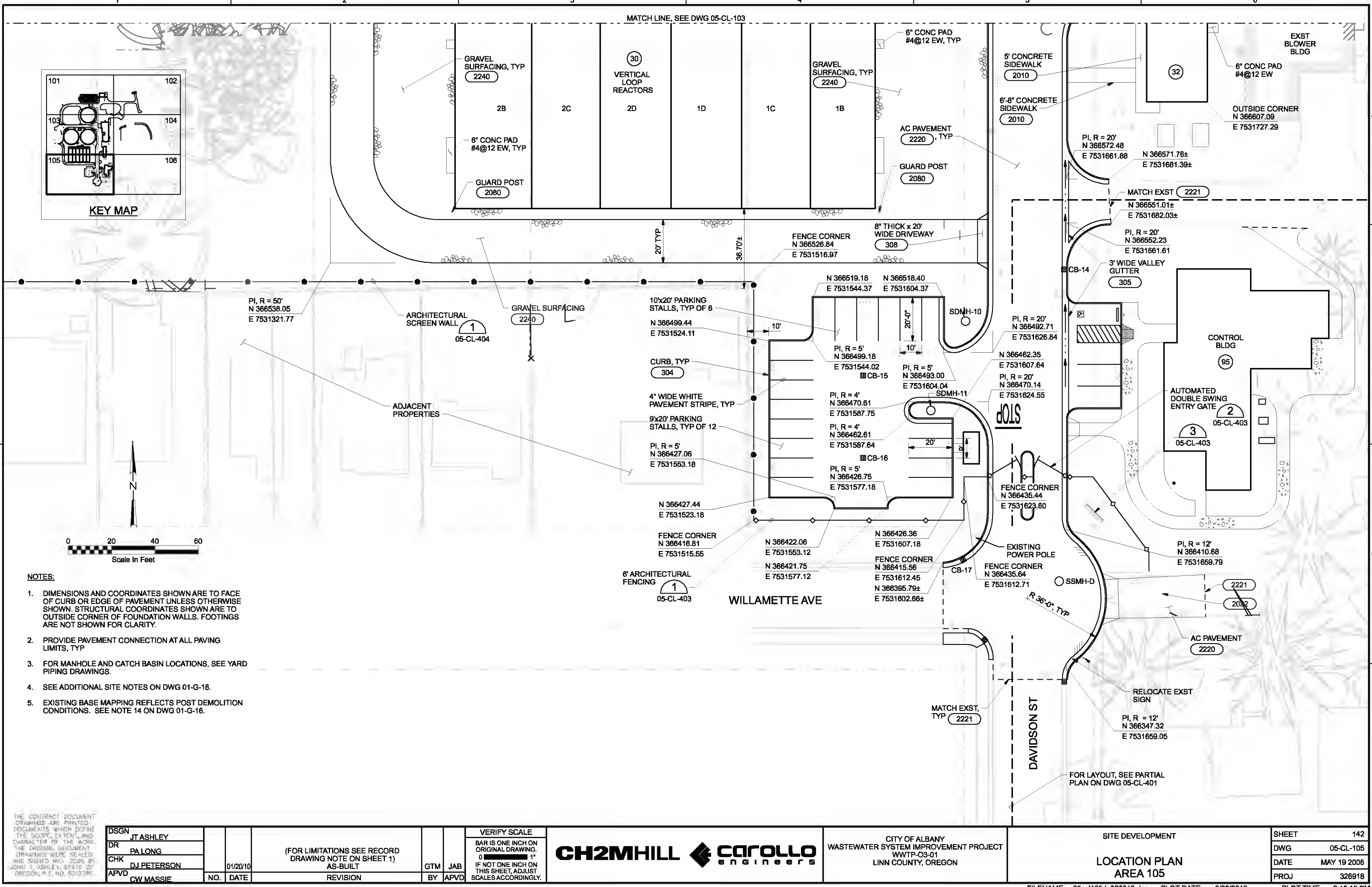
SITE DEVELOPMENT
LOCATION PLAN
 AREA 104

SHEET	141
DWG	05-CL-104
DATE	MAY 19 2006
PROJ	326918

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 - SEE ADDITIONAL SITE NOTES ON DWG 01-G-16.
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DSGN	JT ASHLEY								
DR	PALONG								
CHK	DJ PETERSON	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

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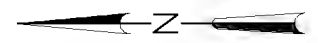
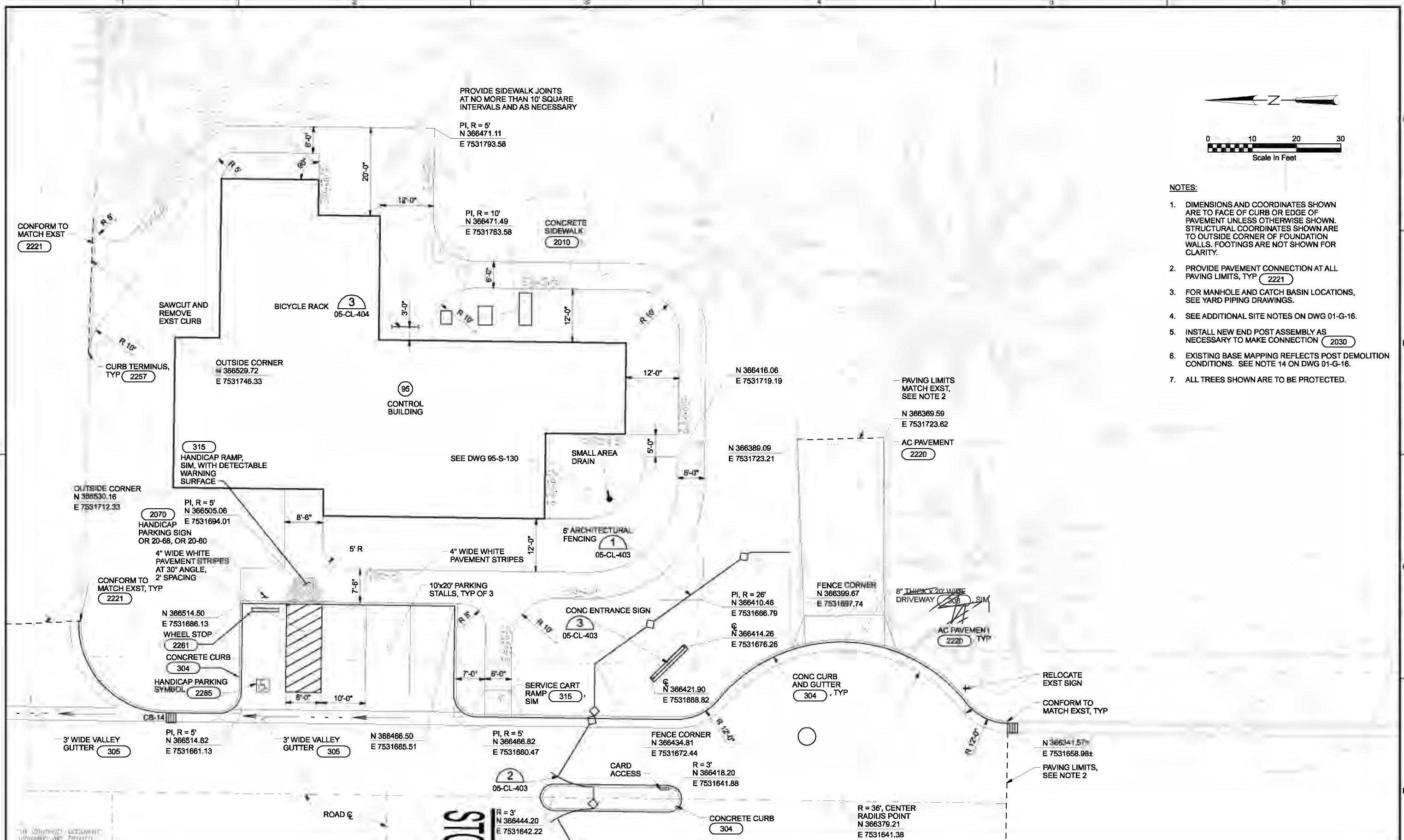


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
LOCATION PLAN
 AREA 105

SHEET	142
DWG	05-CL-105
DATE	MAY 19 2006
PROJ	326918

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.

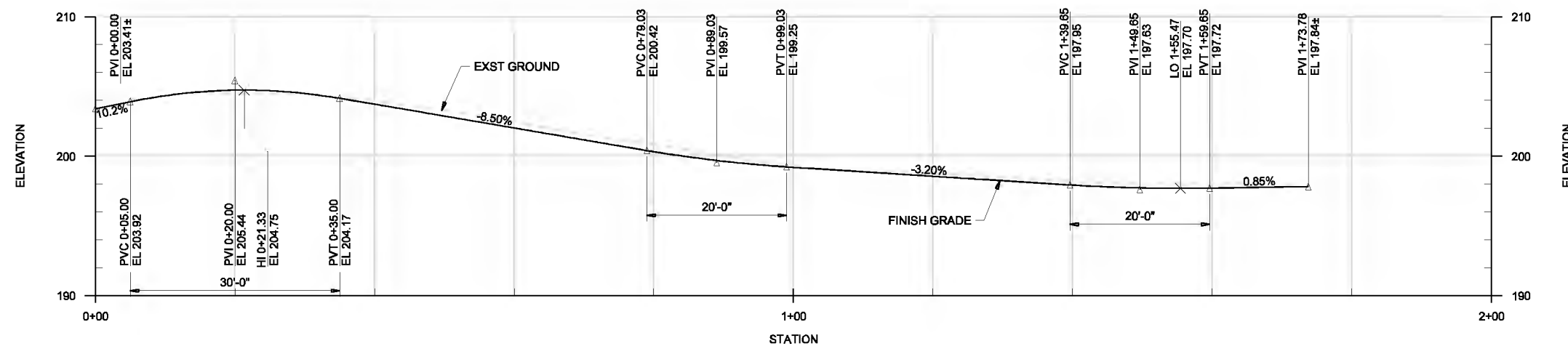
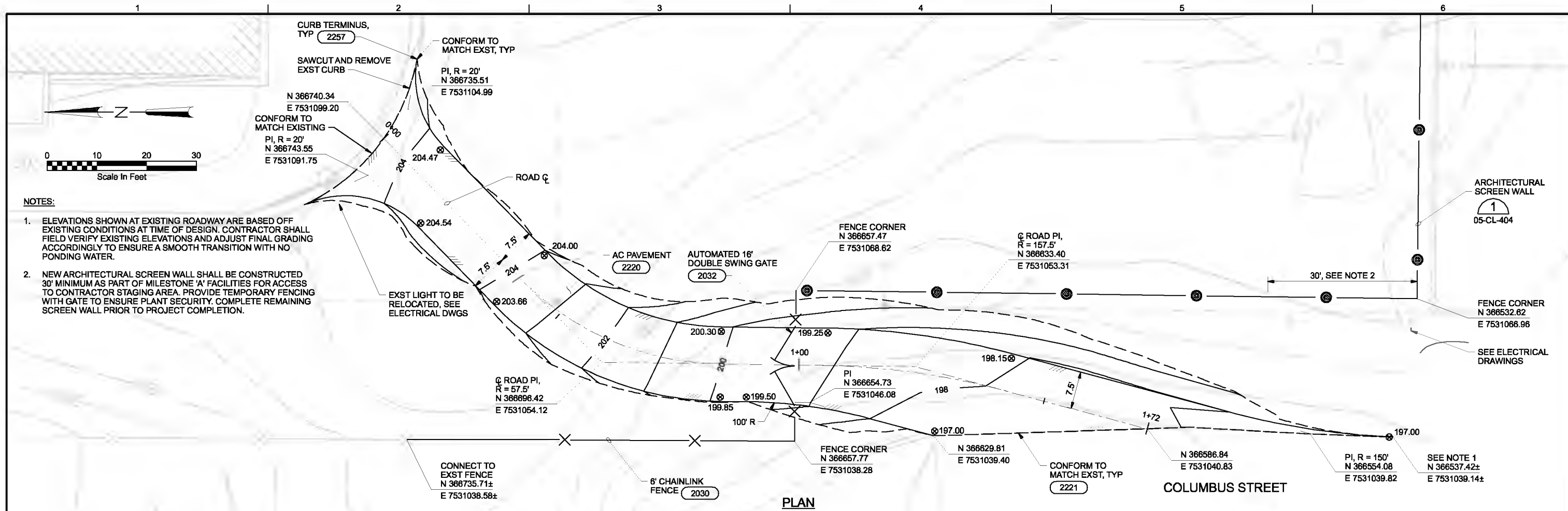


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- FOR MANHOLE AND CATCH BASIN LOCATIONS, SEE YARD PIPING DRAWINGS.
- SEE ADDITIONAL SITE NOTES ON DWG 01-G-16.
- INSTALL NEW END POST ASSEMBLY AS NECESSARY TO MAKE CONNECTION (2030)
- EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 01-G-16.
- ALL TREES SHOWN ARE TO BE PROTECTED.

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DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD	GTM	JAB	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.		CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENT PROJECT WWTP-03-01 LINN COUNTY, OREGON	SITE DEVELOPMENT PARTIAL SITE PLAN	SHEET	143
DR	PALONG												DWG	05-CL-401
CHK	DJ PETERSON												DATE	MAY 19 2006
APVD	CW MASSIE												PROJ	326918



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 2006 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 50130PE.

DSGN	JT ASHLEY				
DR	PALONG				
CHK	DJ PETERSON	01/20/10			
APVD	CW MASSIE	NO.	DATE	REVISION	BY

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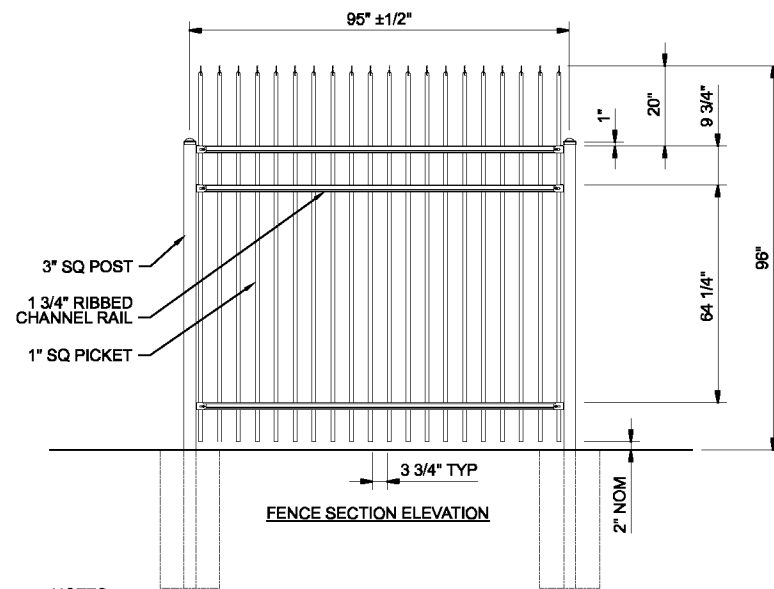


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
BIOSOLIDS ACCESS ROAD
PLANS AND PROFILE

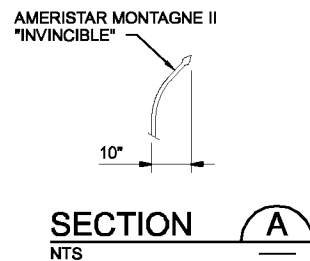
SHEET	144
DWG	05-CL-402
DATE	MAY 19 2006
PROJ	326918

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NOTES:

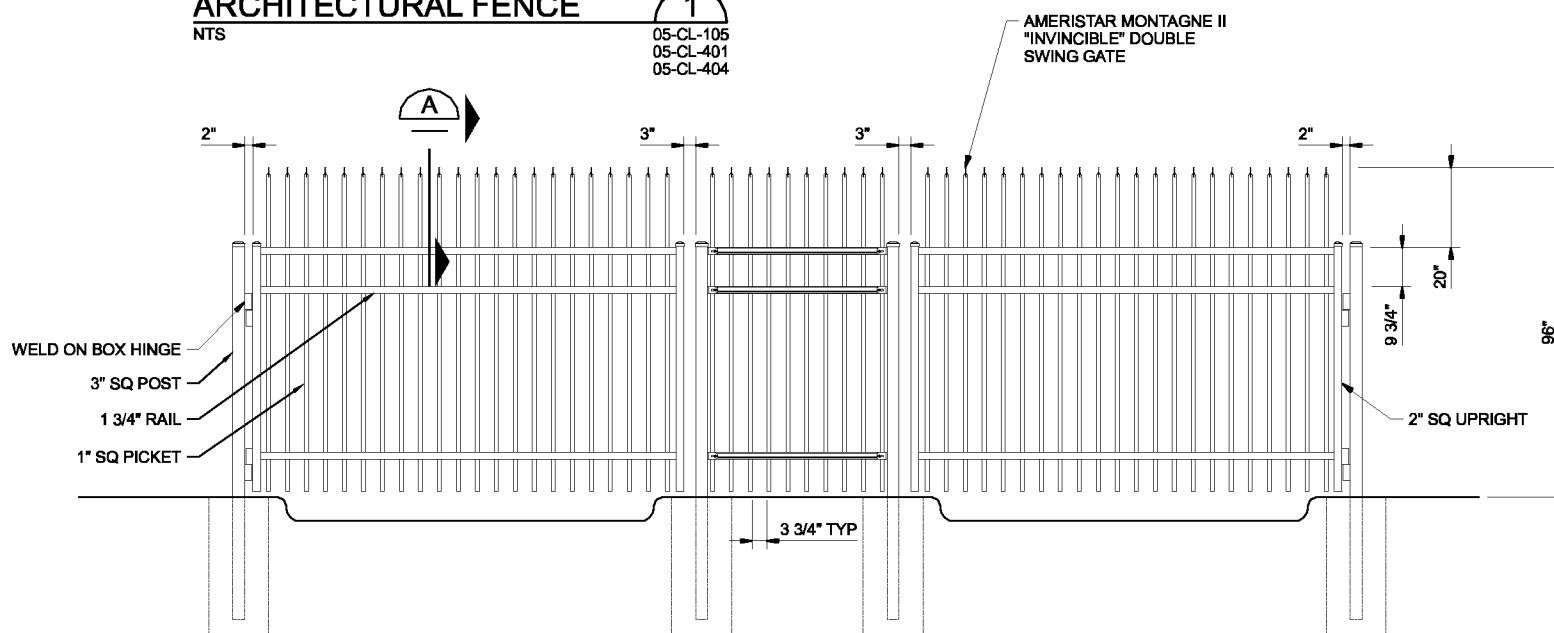
- FOOTING WIDTH TO BE 16" DIA OR (4)X POST WIDTH. WHICHEVER IS GREATER MINIMUM DEPTH 36".
- FENCING SHALL BE BY AMERISTAR FENCE MONTAGNE II "INVINCIBLE".
- ARCHITECTURAL FENCING AND GATES SHALL HAVE BLACK POWDER COATING, ALL POSTS ARE TO BE SIZED ACCORDING TO MANUFACTURERS RECOMMENDATION, AND ALL 1" SQUARE PICKETS TO BE 14 GAUGE. INSTALL PER MANUFACTURERS RECOMMENDATIONS.



ARCHITECTURAL FENCE

NTS

1
05-CL-105
05-CL-401
05-CL-404



NOTES:

- FOOTING WIDTH TO BE 16" DIA OR (4)X POST WIDTH. WHICHEVER IS GREATER. MINIMUM DEPTH 36".
- GATES TO BE ELECTRICALLY OPERATED. HARDWARE WILL VARY.
- GATES TO HAVE 3 RAILS TO MATCH FENCE.
- DOUBLE SWING GATE SHALL BE MANUFACTURED BY ARCHITECTURAL FENCING MANUFACTURER. SUBMIT DETAILS TO OWNER FOR APPROVAL.
- VERIFY GATE OPENER COMPATIBILITY WITH GATE AND OPERATOR MANUFACTURERS PRIOR TO ORDERING OPENER TO ENSURE ADEQUACY.
- ARCHITECTURAL FENCING AND GATES SHALL HAVE BLACK POWDER COATING, ALL POSTS ARE TO BE SIZED ACCORDING TO MANUFACTURERS RECOMMENDATION. ALL 1" SQUARE PICKETS TO BE 14 GAUGE. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

DOUBLE SWING ENTRY GATE

NTS

2
05-CL-105
05-CL-401

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



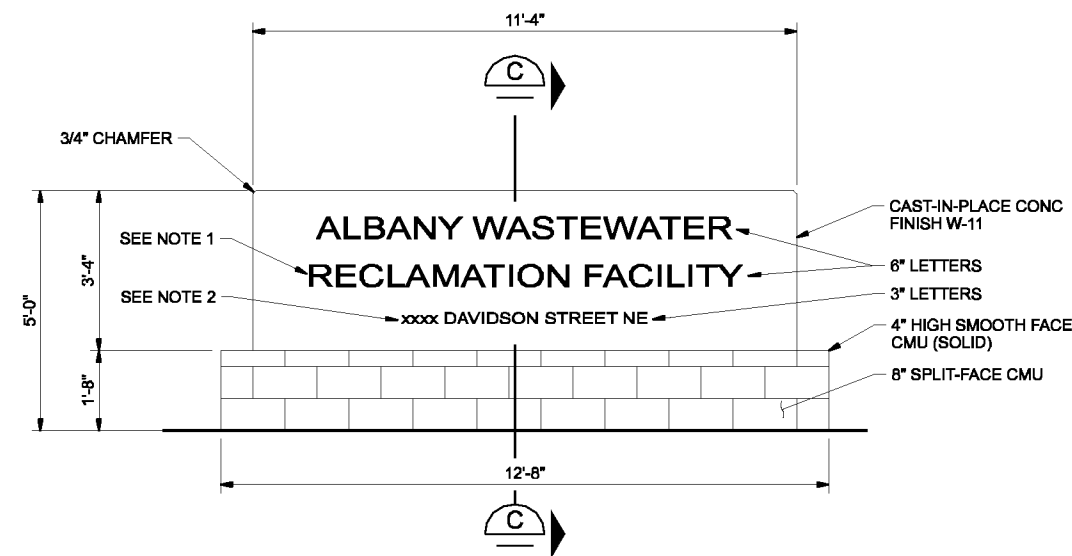
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
SITE DETAILS

SHEET	145
DWG	05-CL-403
DATE	MAY 19 2006
PROJ	326918

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 60132PE.

DSGN	JT ASHLEY
DR	SR REDDELL
CHK	DJ PETERSON
APVD	CW MASSIE
NO.	DATE
REVISION	BY
APVD	APVD



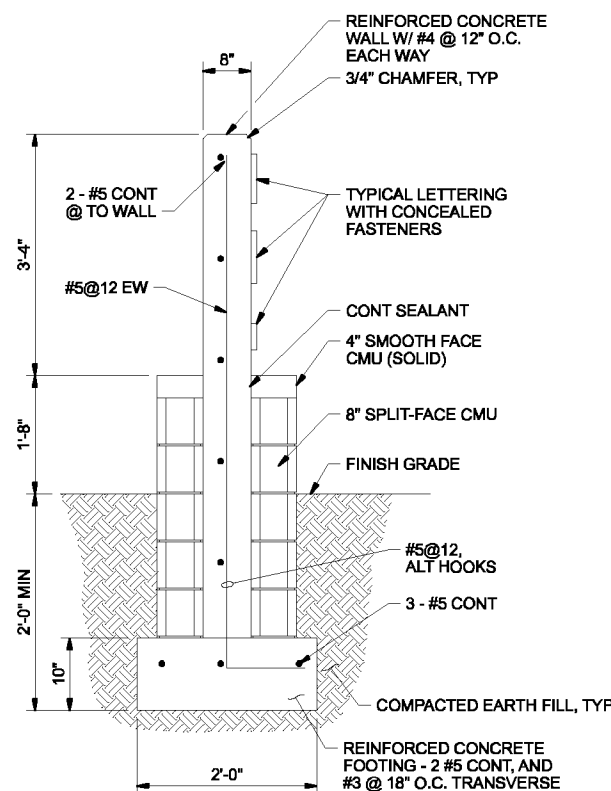
NOTES:

- LETTERING SHALL BE SPECIFIED IN SPECIFICATION SECTION 10400.
- VERIFY STREET NUMBERING WITH OWNER.

CONCRETE ENTRANCE SIGN

1/2"=1'-0"

3
05-CL-105
05-CL-401
05-CG-401



SECTION C

NTS

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ARCHITECTURAL FENCE, SEE 1, SIM
05-CL-403

4" CMU CAP BLOCK

PROVIDE OVERSIZE HOLE IN CAP BLOCK AND CMU COURSES, AND GROUT IN FENCE POST. DEPTH OF POST EMBEDMENT AS RECOMMENDED BY MANUFACTURER.

1 - #5 CONTINUOUS IN GROUTED BOND BEAMS, 3 PLA

#5@32" OC, LAP 2'-0" WITH DOWEL. PROVIDE VERT BARS WITH MATCHING DOWELS AT 3 CELLS AT CORNERS AND AT 2 CELLS, 1 EACH SIDE OF CONTROL JOINTS

6 - #5 CONT

#5@12, ALTERNATE DIRECTION OF HOOK. AT 32" OC PROVIDE DOWEL BAR WITH 2'-0" LAP FOR MASONRY VERTICAL REINFORCING

2'-0" MIN

10"

2'-0"

12"

2'-0"

12"

12"

12"

12"

ARCHITECTURAL SCREEN WALL

NTS

1

05-CG-105
05-CL-105
05-CL-402
05-CY-203

ARCHITECTURAL SCREEN WALL ELEVATIONS

1/2" = 1'-0"

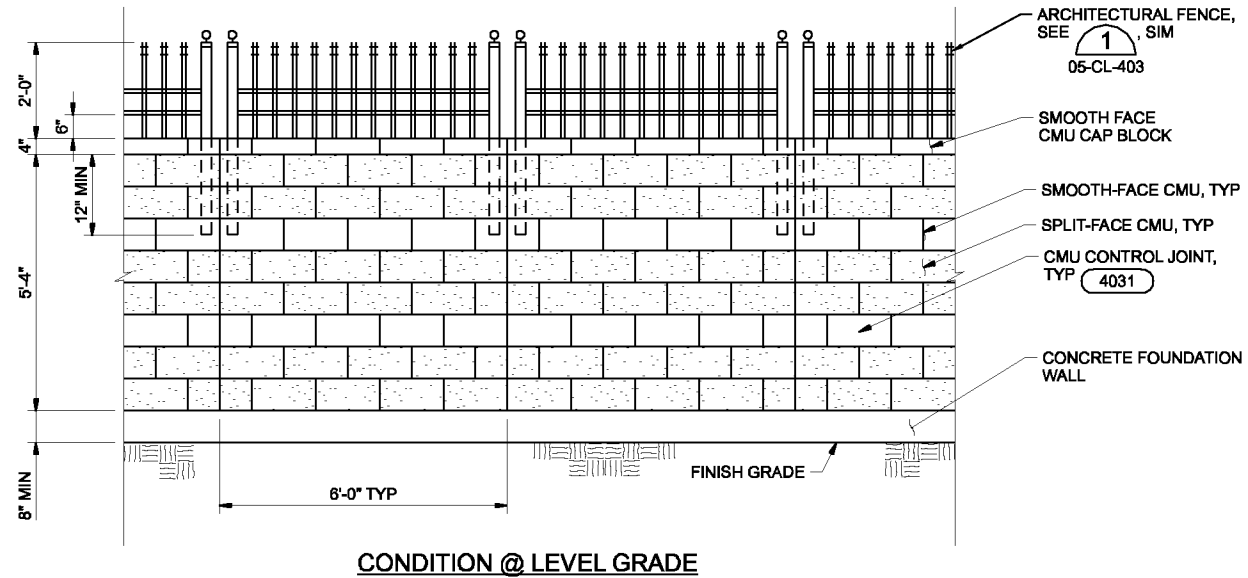
2

TYPICAL GRAVITY RETAINING WALL

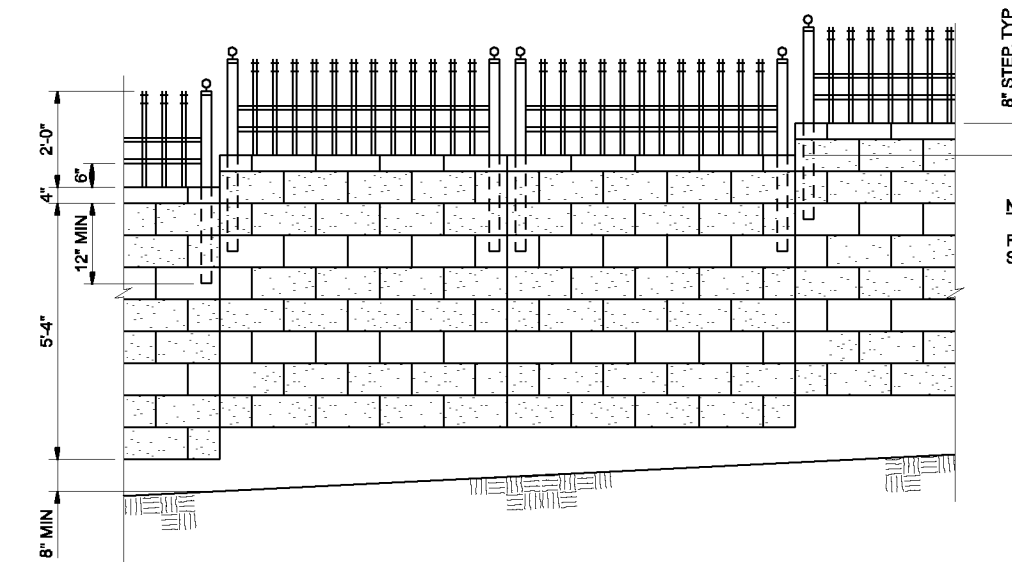
NTS

4

05-CL-103



CONDITION @ LEVEL GRADE



CONDITION @ SLOPING GRADE

ARCHITECTURAL FENCE, SEE 1, SIM
05-CL-403

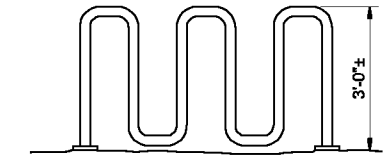
SMOOTH FACE CMU CAP BLOCK

SMOOTH-FACE CMU, TYP

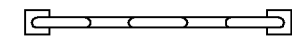
SPLIT-FACE CMU, TYP

CMU CONTROL JOINT, TYP 4031

CONCRETE FOUNDATION WALL



ELEVATION



PLAN

NOTE:

BICYCLE RACK SHALL BE SPECIFIED IN SPECIFICATION SECTION 10999.

BICYCLE RACK

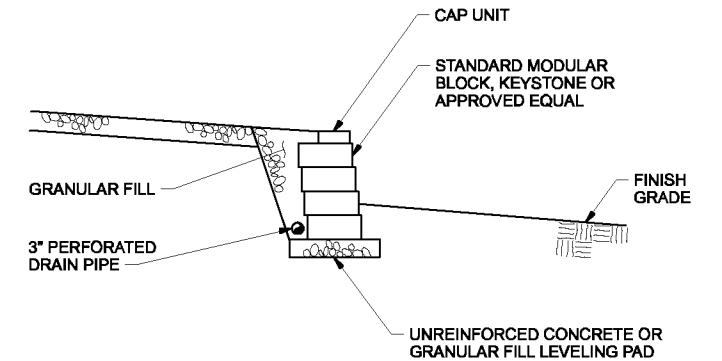
NTS

3

05-CL-105
05-CL-401
05-CG-401

8" STEP, TYP

NOTE:
FOR TYPICAL NOTES, SEE ABOVE



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DSGN	JT ASHLEY/MJ MERKLEIN	NO.	DATE	REVISION	BY	APVD
DR	PALONG					
CHK	DJ PETERSON					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

VERIFY SCALE
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0 1"
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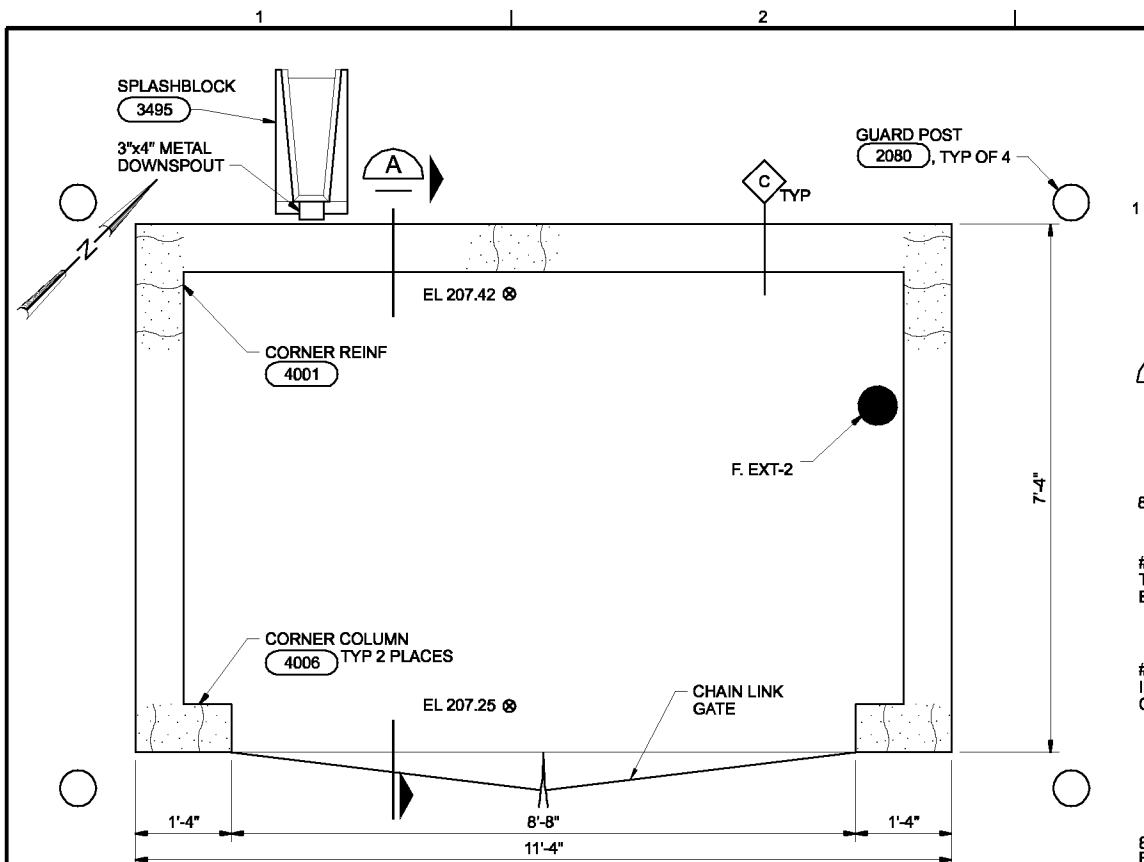


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

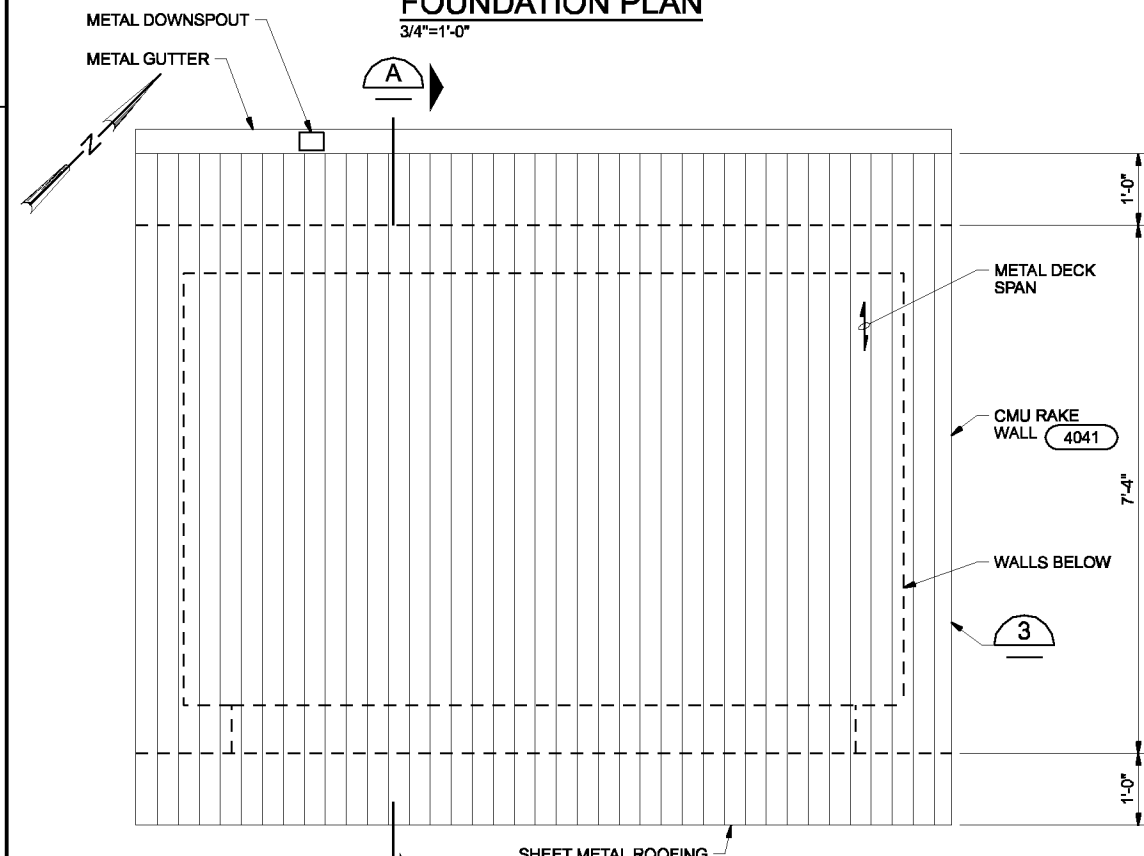
SITE DEVELOPMENT
SITE DETAILS

SHEET	146
DWG	05-CL-404
DATE	MAY 19 2006
PROJ	326918

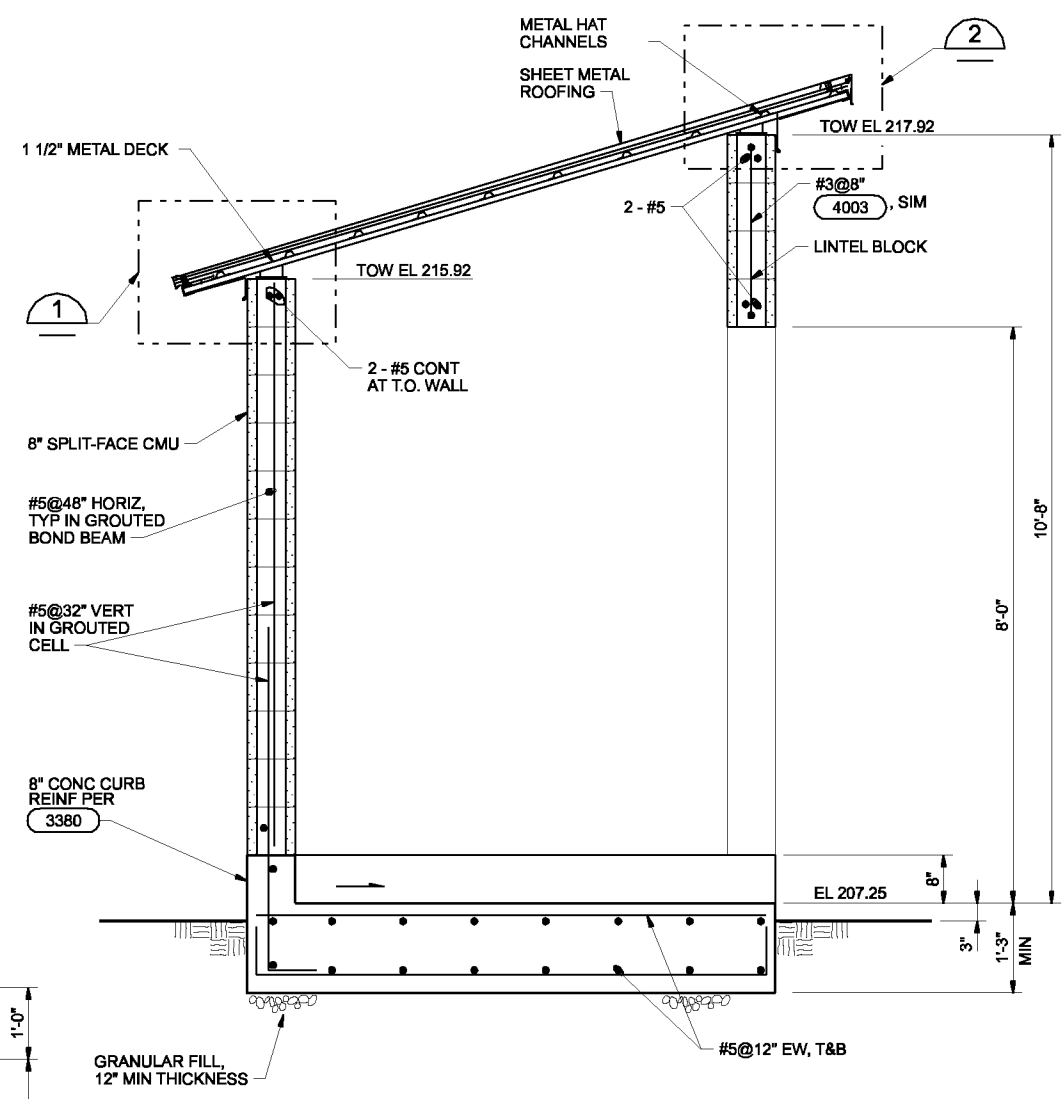
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FOUNDATION PLAN
3/4"=1'-0"



ROOF PLAN
3/4"=1'-0"



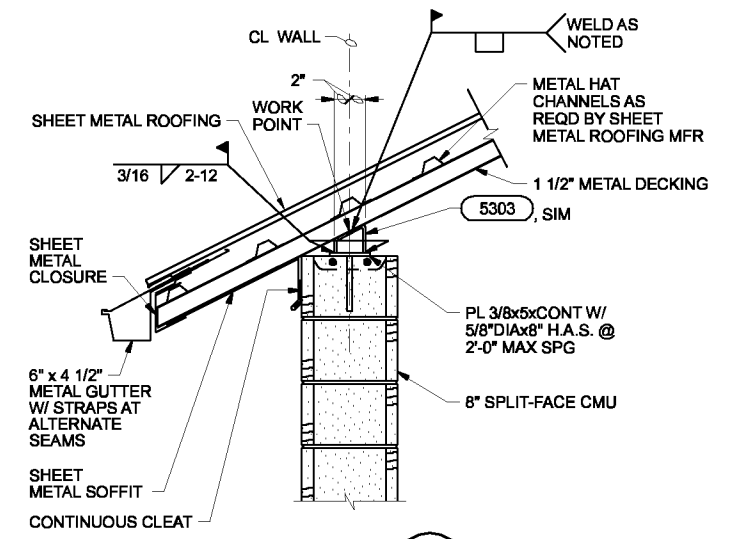
SECTION A
3/4"=1'-0"

METAL DECK NOTES:

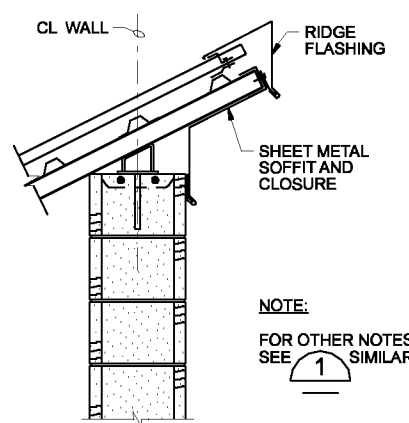
- UNLESS NOTED OTHERWISE METAL DECK SHALL BE 1 1/2", 20 GAGE, TYPE 'B', GALVANIZED STEEL WITH THE FOLLOWING MINIMUM PROPERTIES:
 $I = 0.212 \text{ in}^4/\text{FT}$
 $+S = 0.234 \text{ in}^3/\text{FT}$
 $-S = 0.217 \text{ in}^3/\text{FT}$
 $FY = 33 \text{ ksi}$
- METAL DECK SHALL BE ATTACHED TO ALL SUPPORTS AS FOLLOWS:
 TYPICAL SUPPORTS:
 5 - 5/8" PUDDLE WELD PER 36" PANEL WIDTH
 SIDE LAP:
 5 - SIDE SEAM WELDS PER 6'-0" SPAN

GENERAL NOTES:

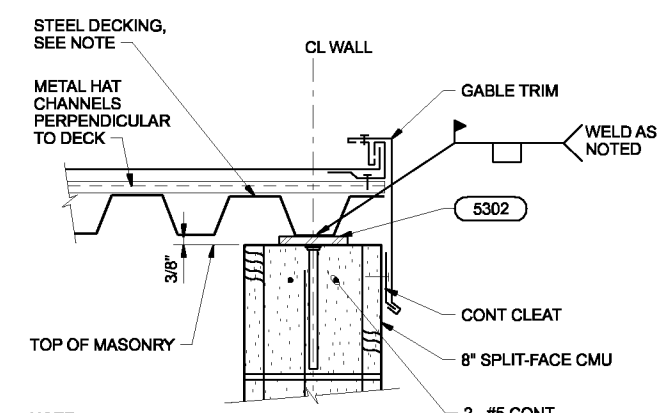
- FOR GENERAL ARCHITECTURAL NOTES, SYMBOLS, LEGEND AND WALL TYPES, SEE DWG 01-G-07.
- FOR CODE DATA, SEE DWG 01-G-08.



DETAIL 1
NTS



DETAIL 2
NTS



DETAIL 3
NTS

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DSGN	MJ MERKLEIN						
DR	SR REDDELL						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE	
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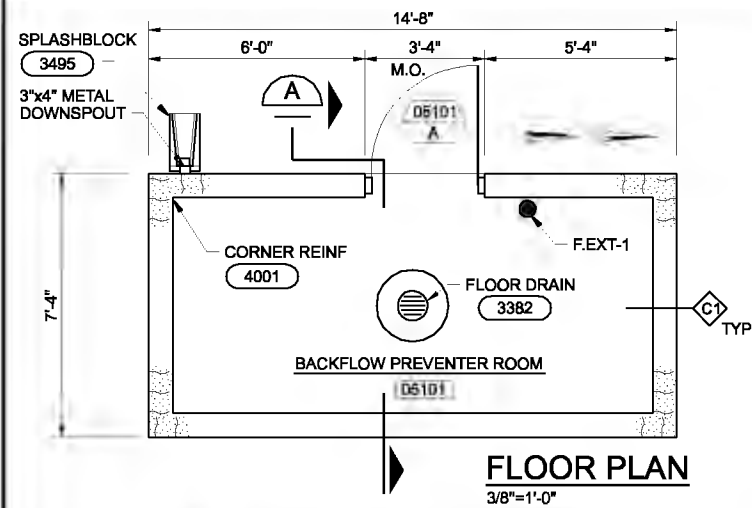


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

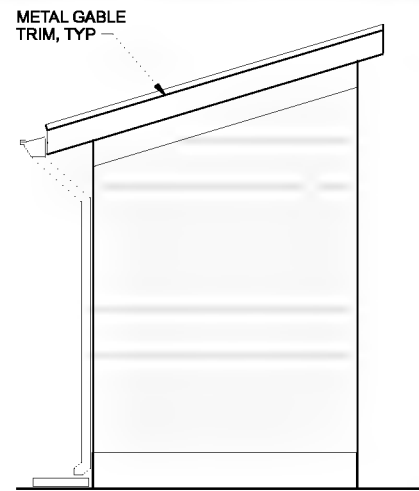
CIVIL
ELECTRICAL ENCLOSURE

SHEET	147
DWG	05-CL-405
DATE	MAY 19 2006
PROJ	326918

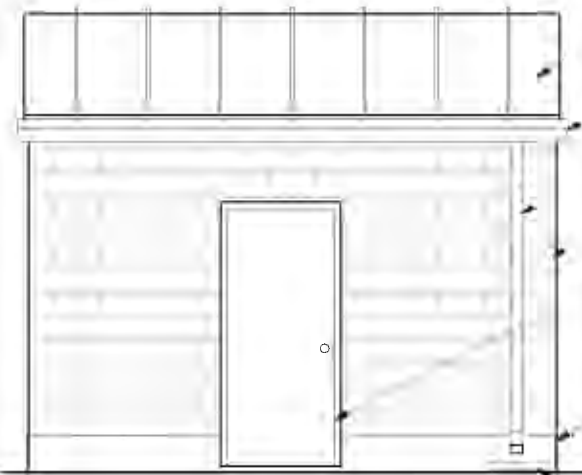
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FLOOR PLAN
3/8"=1'-0"

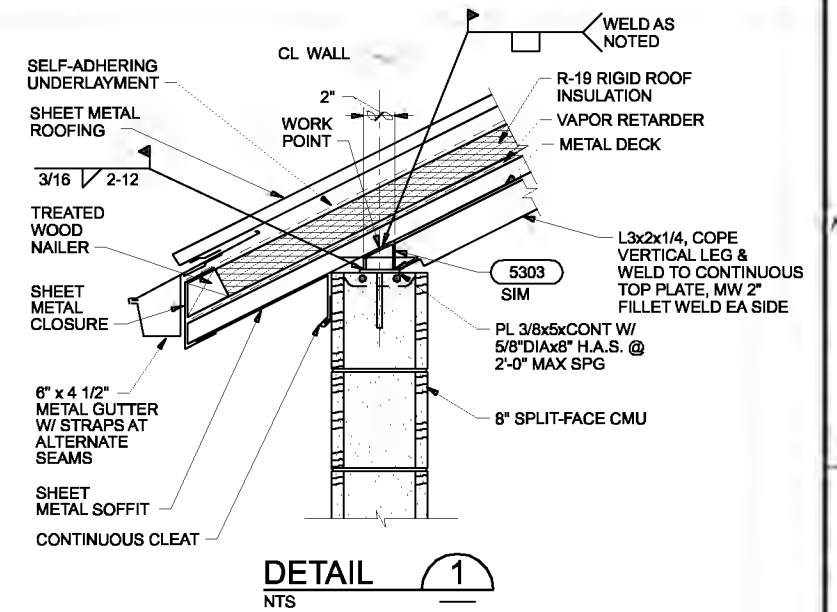


SOUTH ELEVATION
3/8"=1'-0"

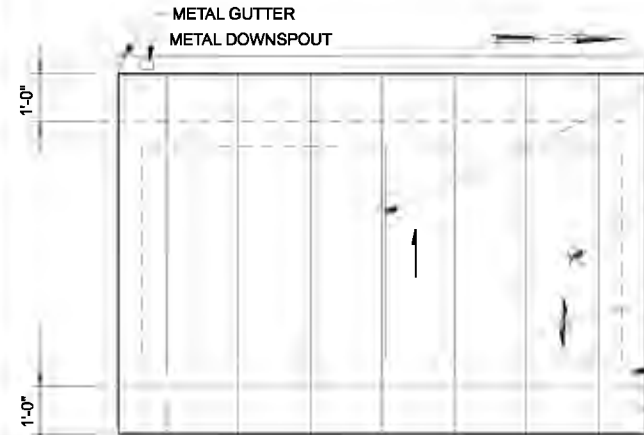


WEST ELEVATION
3/8"=1'-0"

- SHEET METAL ROOFING, TYP
- METAL GUTTER, TYP
- METAL DOWNSPOUT, TYPICAL
- SPLIT-FACE CMU, TYPICAL
- HM DOOR AND FRAME
- CONCRETE CURB, TYPICAL
- SPLASHBLOCK, TYP

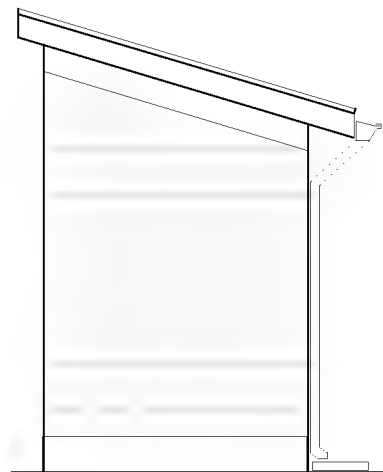


DETAIL 1
NTS



ROOF PLAN
3/8"=1'-0"

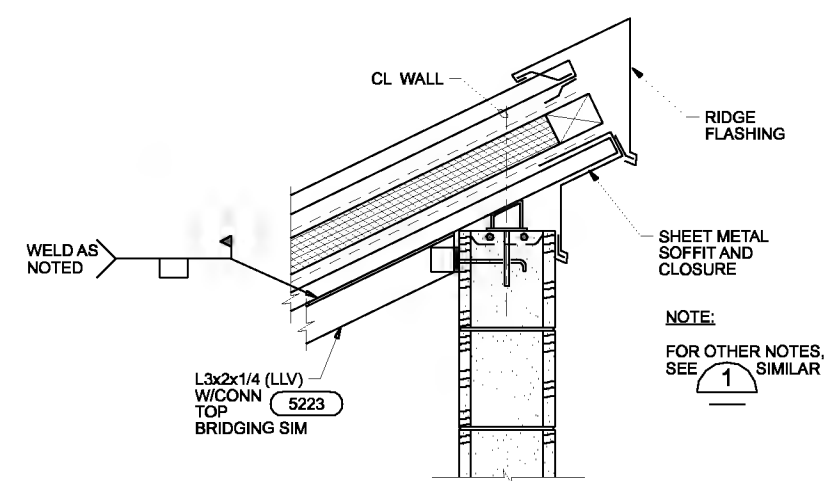
- L3X2X 1/4, FOR CONNECTIONS 1 & 2
- SHEET METAL ROOFING
- METAL DECK SPAN
- WALLS BELOW



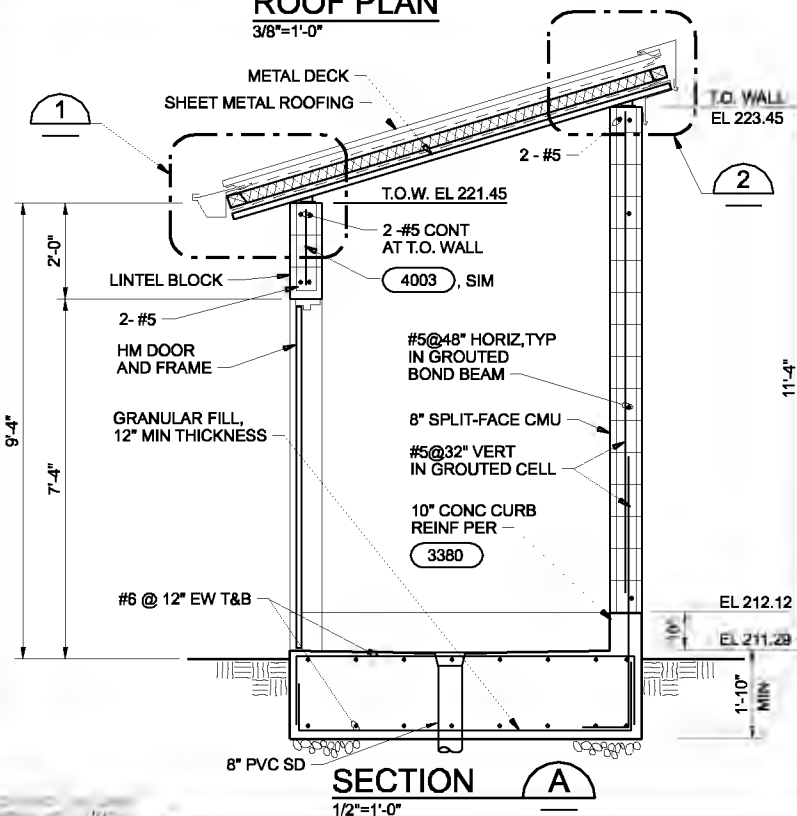
NORTH ELEVATION
3/8"=1'-0"



EAST ELEVATION
3/8"=1'-0"



DETAIL 2
NTS



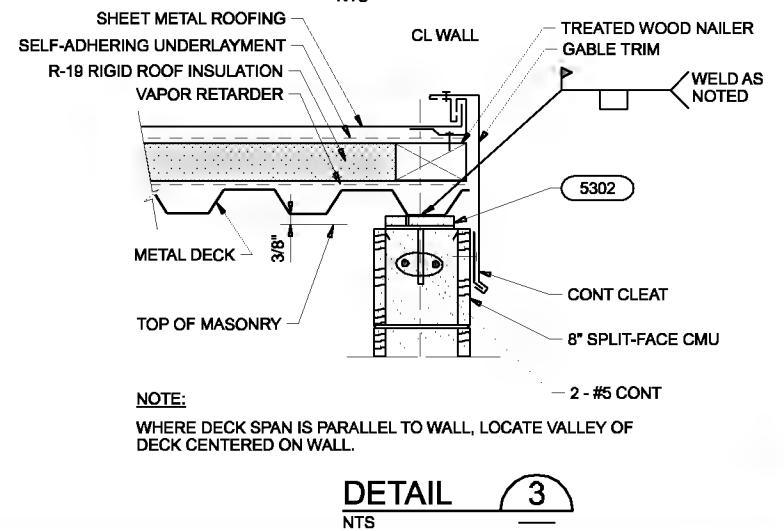
SECTION A
1/2"=1'-0"

METAL DECK NOTES:

1. UNLESS NOTED OTHERWISE METAL DECK SHALL BE 1 1/2", 20 GAGE, TYPE 'B', GALVANIZED STEEL WITH THE FOLLOWING MINIMUM PROPERTIES:
 $I = 0.212 \text{ in}^4/\text{FT}$
 $+S = 0.234 \text{ in}^3/\text{FT}$
 $-S = 0.217 \text{ in}^3/\text{FT}$
 $FY = 33 \text{ ksi}$
2. METAL DECK SHALL BE ATTACHED TO ALL SUPPORTS AS FOLLOWS:
 TYPICAL SUPPORTS:
 5 - 5/8" PUDDLE WELD PER 36" PANEL WIDTH
 SUPPORTS PARALLEL TO DECK SPAN:
 5/8" PUDDLE WELDS AT 12" ON CENTER
 SIDE LAP:
 #10 TEK SCREWS @ 12" MAX SPACING

GENERAL NOTES:

1. FOR GENERAL ARCHITECTURAL NOTES, SYMBOLS, LEGEND AND WALL TYPES, SEE DWG 01-G-07.



DETAIL 3
NTS

- NOTE:**
WHERE DECK SPAN IS PARALLEL TO WALL, LOCATE VALLEY OF DECK CENTERED ON WALL.

DSGN	MJ MERKLEIN
DR	WB LOVE
CHK	DJ PETERSON
APVD	CW MASSIE

NO.	DATE
	01/20/10

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

BRP	JAB
BY	APVD

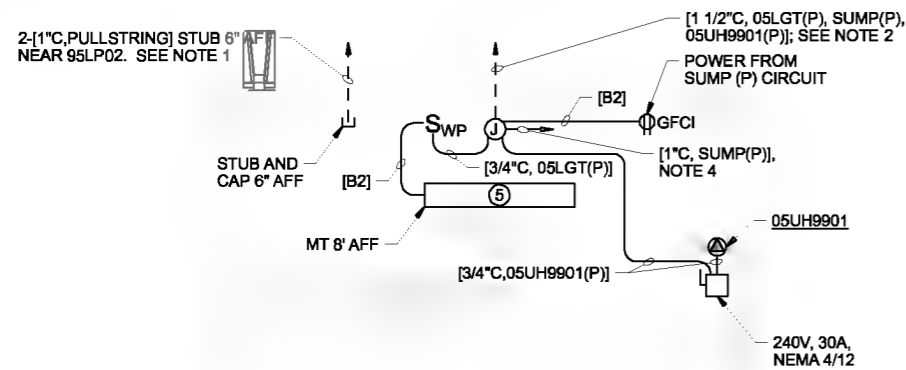
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CIVIL
BACKFLOW PREVENTER BUILDING

SHEET	148
DWG	05-CL-406
DATE	SEPT 27 2006
PROJ	326918

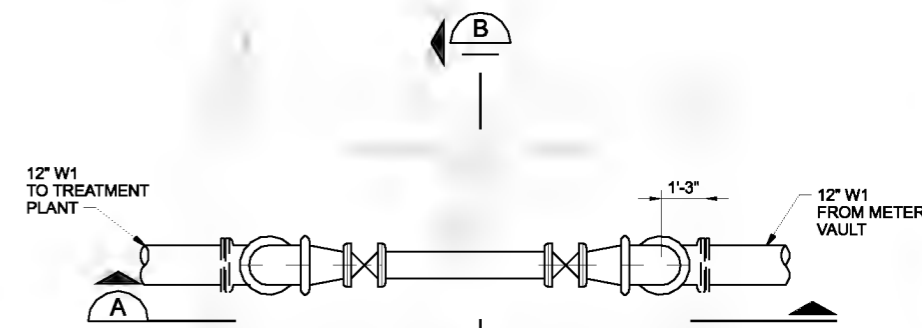


ELECTRICAL FLOOR PLAN

3/8"=1'-0"

HVAC FLOOR PLAN

3/8"=1'-0"



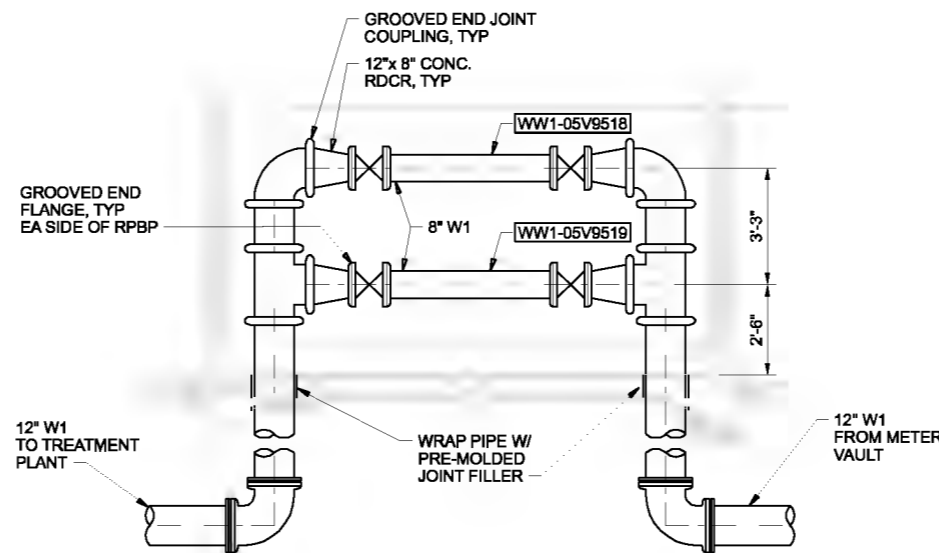
PROCESS FLOOR PLAN

3/8"=1'-0"

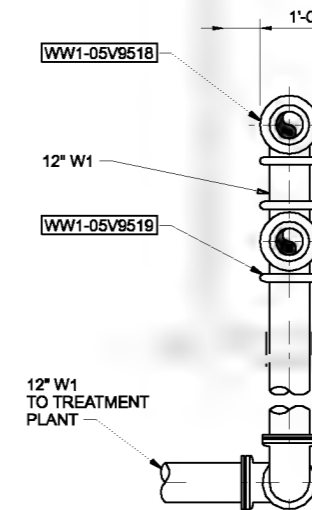
NOTES:

- ADD CONDUITS TO THE DUCTBANK SCHEDULE ON SHEET 439. LABEL THEM AS NN06 AND NN07 FROM BACK PREV BLDG TO STUB BELOW 95LP02.
- THE CONDUIT SHALL BE LABELED NN05, WHICH WAS ADDED IN ADDENDUM 2. IN THE SITE ROUTED CIRCUIT SCHEDULE, CHANGE THE NN05 "FROM" COLUMN TO "BACKFLOW PREVENTER BLDG".
- IT HAS BEEN CONFIRMED WITH THE CITY THAT AN EXTERNAL POWER SOURCE IS NOT REQUIRED FOR THE WATER METER.
- PROVIDE 120V, 20A IMMERSION PROOF RECEPTACLE AND MATCHING PLUG FOR WATER METER VAULT SUMP PUMP. COORDINATE MOUNTING LOCATION OF RECEPTACLE WITH MECHANICAL CONTRACTOR. ROUTE CIRCUIT TO RECEPTACLE. REFER TO 05-CY-105 FOR VAULT LOCATION.
- MODIFY THE PANEL SCHEDULE FOR 95LP02 AS FOLLOWS:
 - CHANGE CKT 19 TITLE TO "LGTS, BACK PREV BLDG". CHANGE VA TO 90.
 - ADD A 20A, 2 POLE BREAKER TO CIRCUITS 27 AND 29. ADD TITLE "05UH9901". ADD VA RATING OF "1250" PER PHASE.
- ADD THE FOLLOWING TO THE SITE ROUTED CIRCUIT SCHEDULE ON SHEET 430:

CIRCUIT NAME	FACILITY CIRCUIT ORIGIN IN	FROM	TO	CONDUCTORS	DUCTBANK CABLE IS IN
05LGT(P)	BACKFLOW PREV. BLDG	LIGHT SWITCH	95LP02	3/C#10 TYPE 2	NN
05UH9901(P)	BACKFLOW PREV. BLDG	05UH9901	95LP02	3/C#10 TYPE 2	NN



SECTION A
3/8"=1'-0"



SECTION B
3/8"=1'-0"

DSGN	KL MAESTRI	NO.	DATE	REVISION	BY	APVD	VERIFY SCALE
DR	G WHITTIER						
CHK	CW MASSIE						
APVD	CW MASSIE						

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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

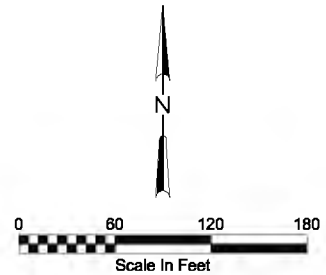
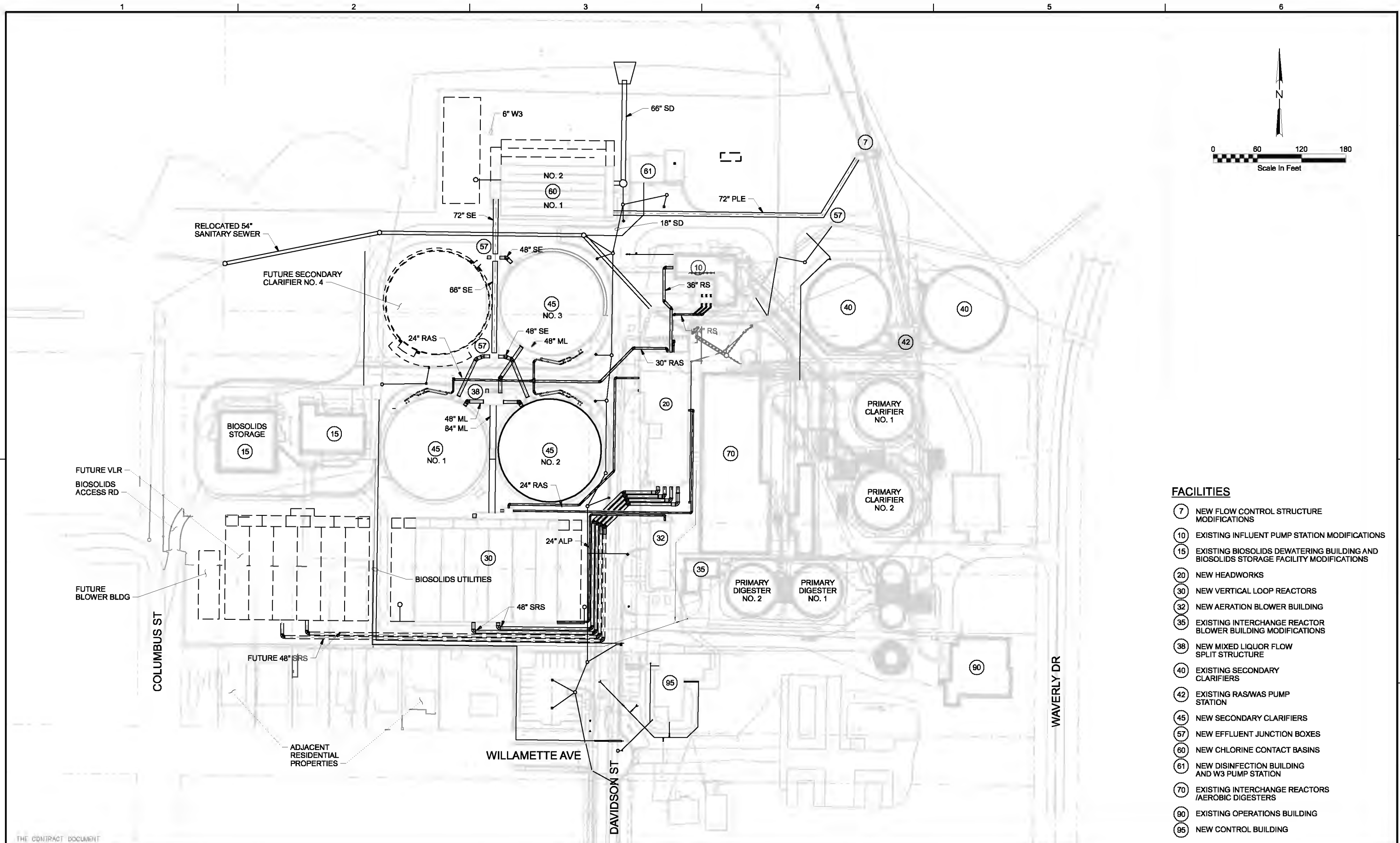


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

CIVIL
ELECTRICAL / HVAC / MECHANICAL
BACKFLOW PREVENTER BUILDING

SHEET	149
DWG	05-CL-407
DATE	SEPT 27 2006
PROJ	326918

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FACILITIES

- 7 NEW FLOW CONTROL STRUCTURE MODIFICATIONS
- 10 EXISTING INFLUENT PUMP STATION MODIFICATIONS
- 15 EXISTING BIOSOLIDS DEWATERING BUILDING AND BIOSOLIDS STORAGE FACILITY MODIFICATIONS
- 20 NEW HEADWORKS
- 30 NEW VERTICAL LOOP REACTORS
- 32 NEW AERATION BLOWER BUILDING
- 35 EXISTING INTERCHANGE REACTOR BLOWER BUILDING MODIFICATIONS
- 38 NEW MIXED LIQUOR FLOW SPLIT STRUCTURE
- 40 EXISTING SECONDARY CLARIFIERS
- 42 EXISTING RAS/WAS PUMP STATION
- 45 NEW SECONDARY CLARIFIERS
- 57 NEW EFFLUENT JUNCTION BOXES
- 60 NEW CHLORINE CONTACT BASINS
- 61 NEW DISINFECTION BUILDING AND W3 PUMP STATION
- 70 EXISTING INTERCHANGE REACTORS /AEROBIC DIGESTERS
- 90 EXISTING OPERATIONS BUILDING
- 95 NEW CONTROL BUILDING

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 2006 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 60132PE.

DSGN	JT ASHLEY						
DR	PALONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
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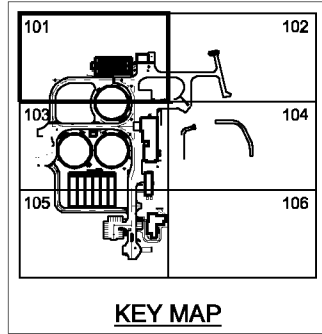


WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

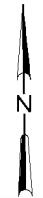
SITE DEVELOPMENT
OVERALL YARD PIPING PLAN

SHEET	150
DWG	05-CY-100
DATE	MAY 19 2006
PROJ	326918

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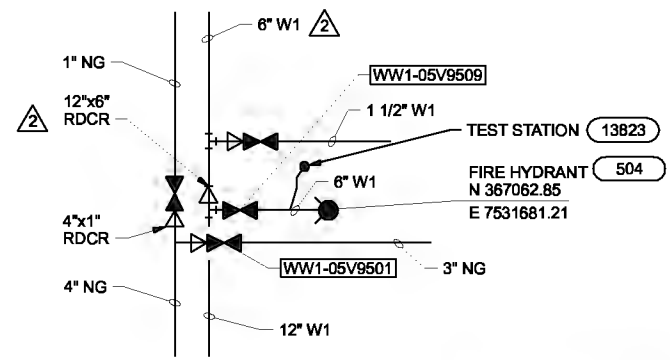


KEY MAP

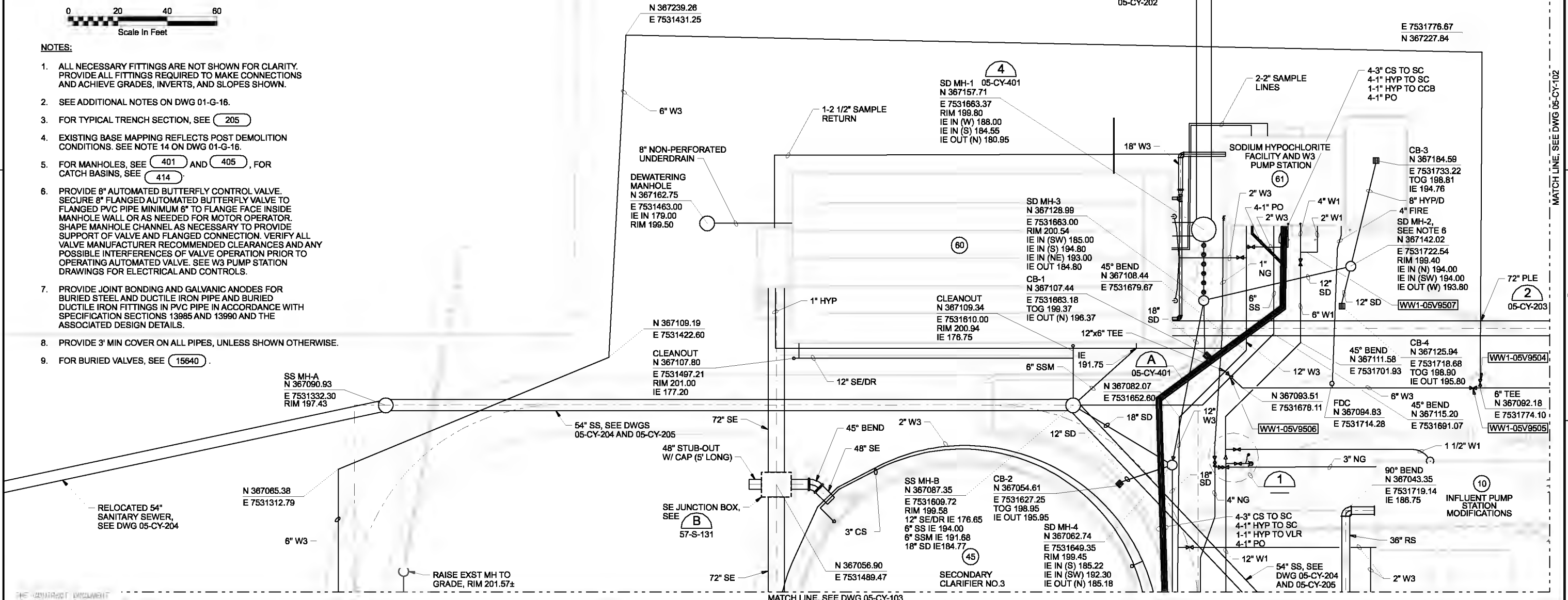
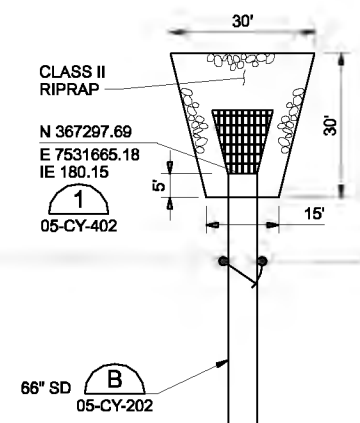


NOTES:

- ALL NECESSARY FITTINGS ARE NOT SHOWN FOR CLARITY. PROVIDE ALL FITTINGS REQUIRED TO MAKE CONNECTIONS AND ACHIEVE GRADES, INVERTS, AND SLOPES SHOWN.
- SEE ADDITIONAL NOTES ON DWG 01-G-16.
- FOR TYPICAL TRENCH SECTION, SEE 205
- EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 01-G-16.
- FOR MANHOLES, SEE 401 AND 405, FOR CATCH BASINS, SEE 414
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- PROVIDE 3" MIN COVER ON ALL PIPES, UNLESS SHOWN OTHERWISE.
- FOR BURIED VALVES, SEE 15640



DETAIL 1
NTS



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DR	PALONG				
CHK	DJ PETERSON	01/20/10			
APVD	CW MASSIE	NO.	DATE	REVISION	BY

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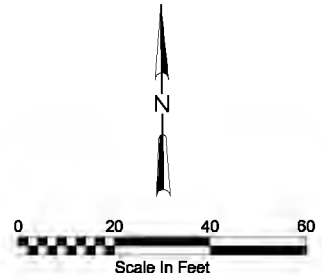
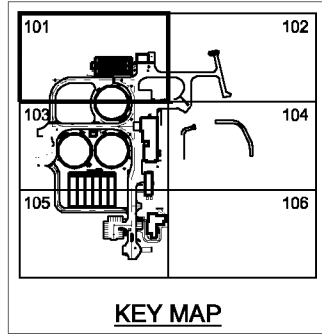


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
YARD PIPING PLAN
AREA 101

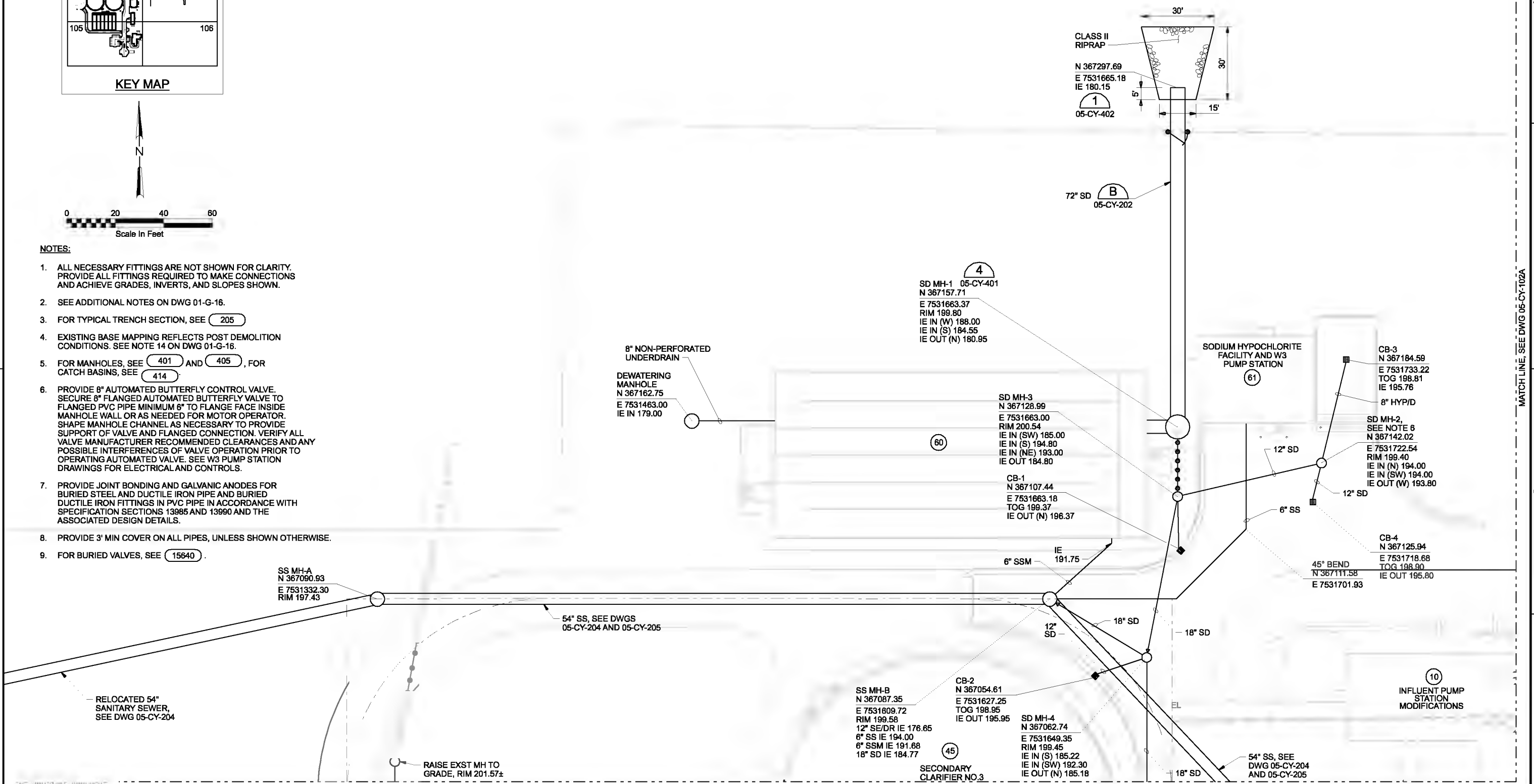
SHEET	151
DWG	05-CY-101
DATE	MAY 19 2006
PROJ	326918

MATCH LINE, SEE DWG 05-CY-102
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NOTES:

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2. SEE ADDITIONAL NOTES ON DWG 01-G-16.
3. FOR TYPICAL TRENCH SECTION, SEE (205)
4. EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 01-G-16.
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8. PROVIDE 3' MIN COVER ON ALL PIPES, UNLESS SHOWN OTHERWISE.
9. FOR BURIED VALVES, SEE (15640)



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DR	PALONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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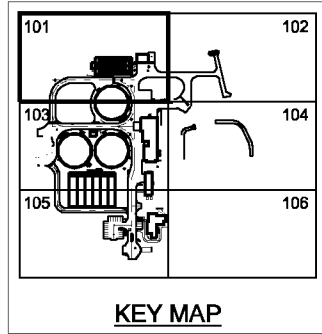


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

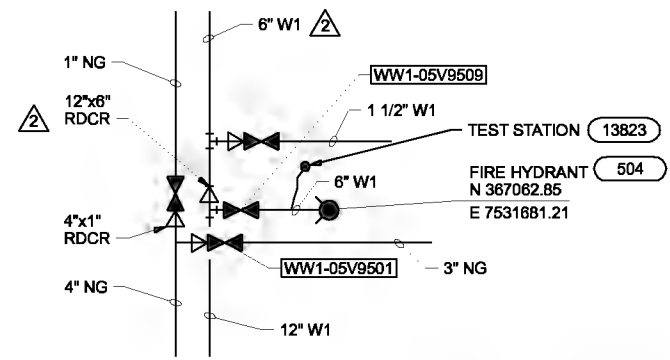
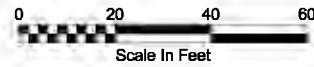
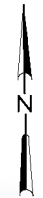
SITE DEVELOPMENT
 SS/SD YARD PIPING PLAN
 AREA 101

SHEET	152
DWG	05-CY-101A
DATE	MAY 19 2006
PROJ	326918

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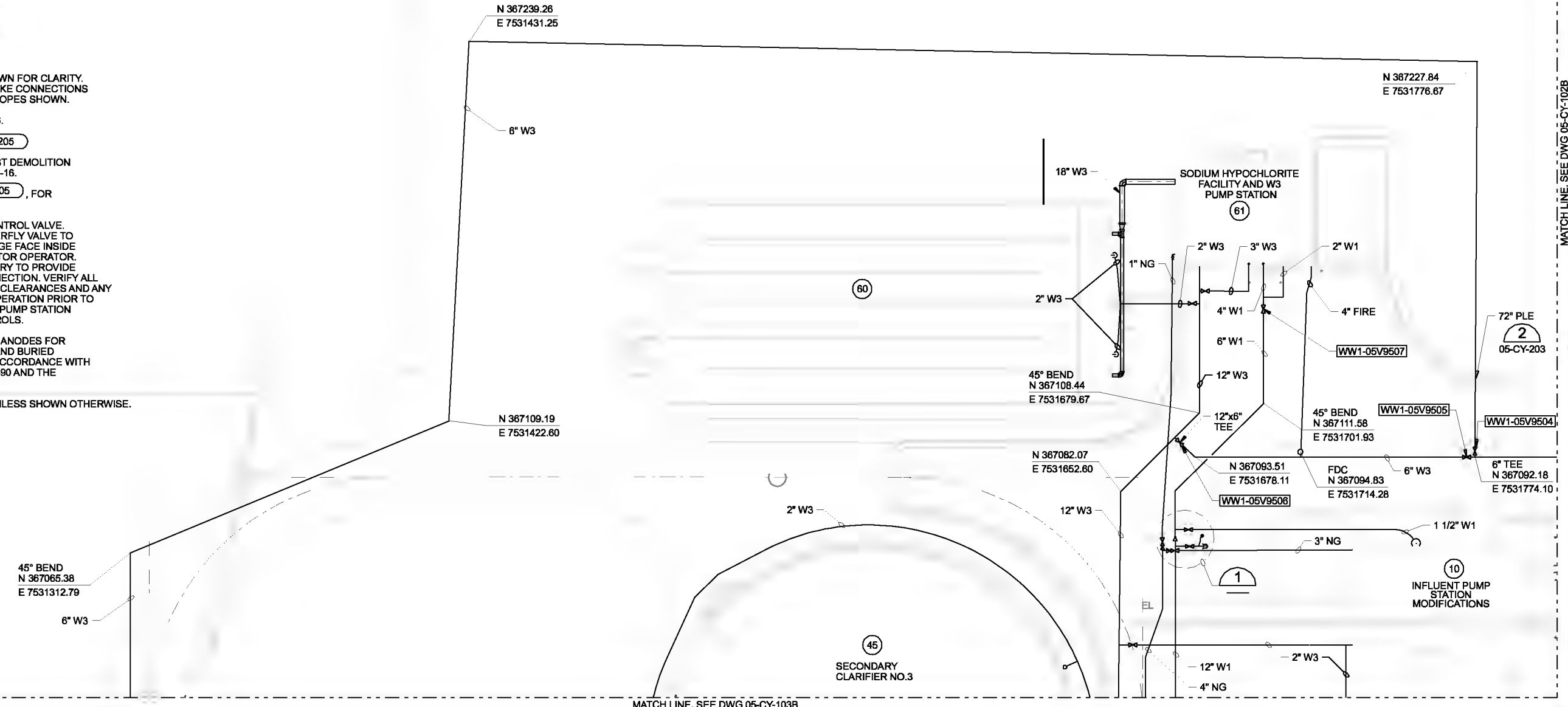


KEY MAP



DETAIL 1
NTS

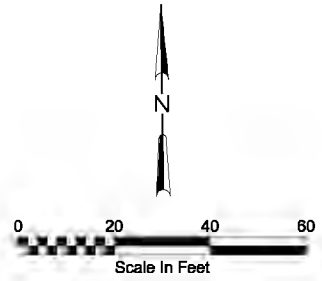
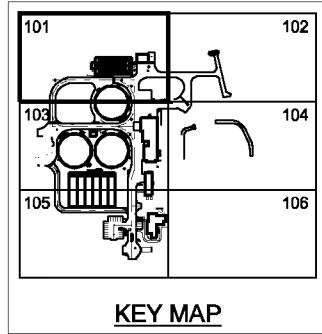
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 - PROVIDE 3" MIN COVER ON ALL PIPES, UNLESS SHOWN OTHERWISE.
 - FOR BURIED VALVES, SEE 15640



MATCH LINE, SEE DWG 05-CY-102B

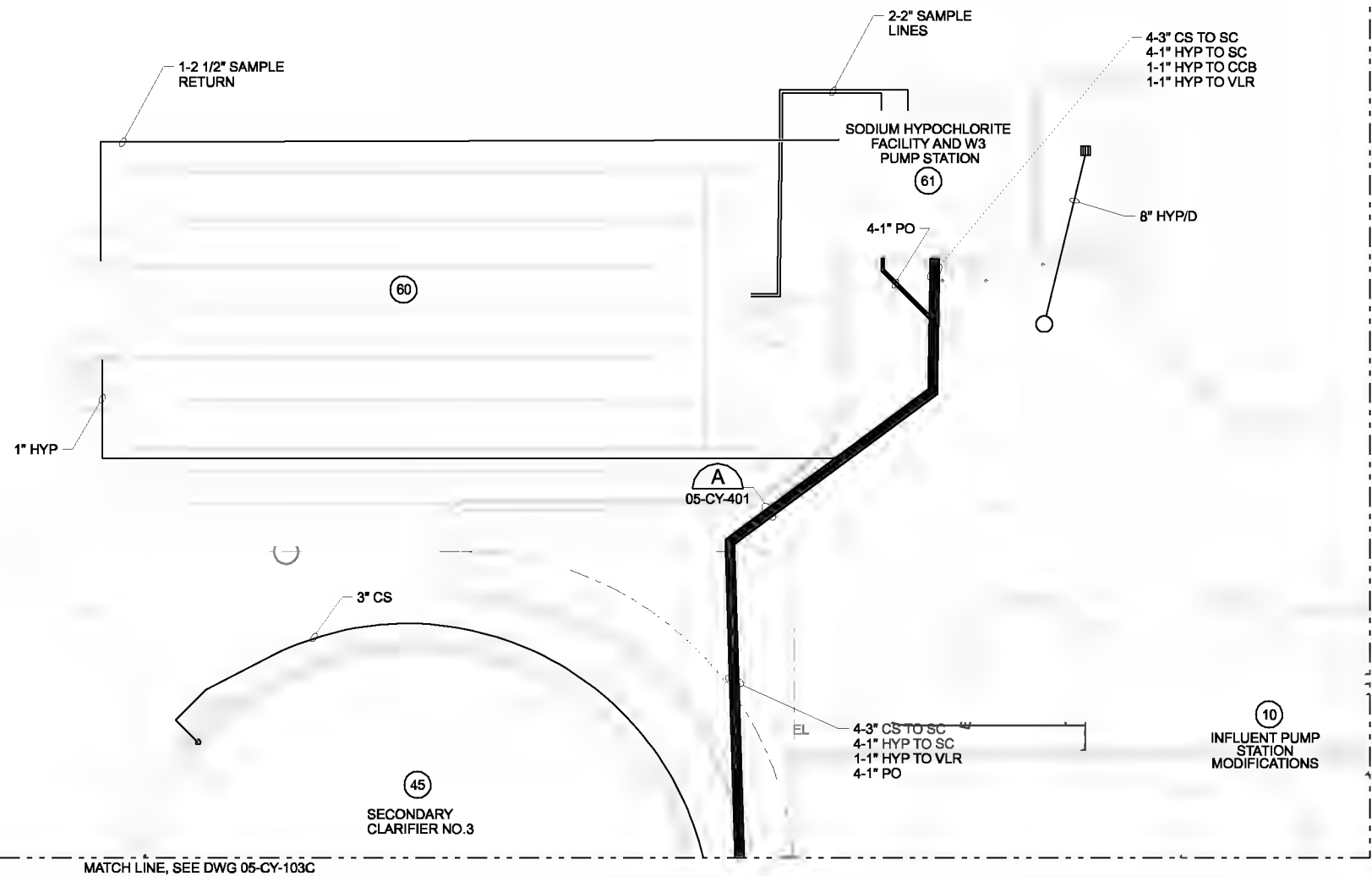
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DSGN JT ASHLEY						VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.		CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENT PROJECT WWTP-03-01 LINN COUNTY, OREGON	SITE DEVELOPMENT WATER AND NG YARD PIPING PLAN AREA 101	SHEET 153
DR PALONG						(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT				DWG 05-CY-101B
CHK DJ PETERSON	01/20/10			APVR JAB					DATE MAY 19 2006	PROJ 326918
APVD CW MASSIE	NO.	DATE	REVISION	BY	APVD				FILENAME: 05nCY101Bd_326918.dgn PLOT DATE: 2/29/2010	PLOT TIME: 2:18:44 PM



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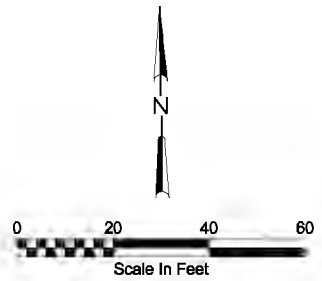
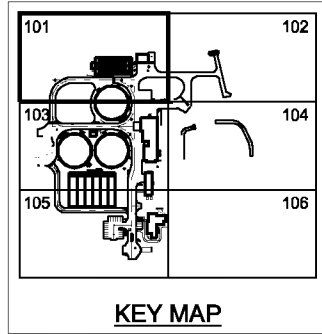


MATCH LINE, SEE DWG 05-CY-102C

MATCH LINE, SEE DWG 05-CY-103C

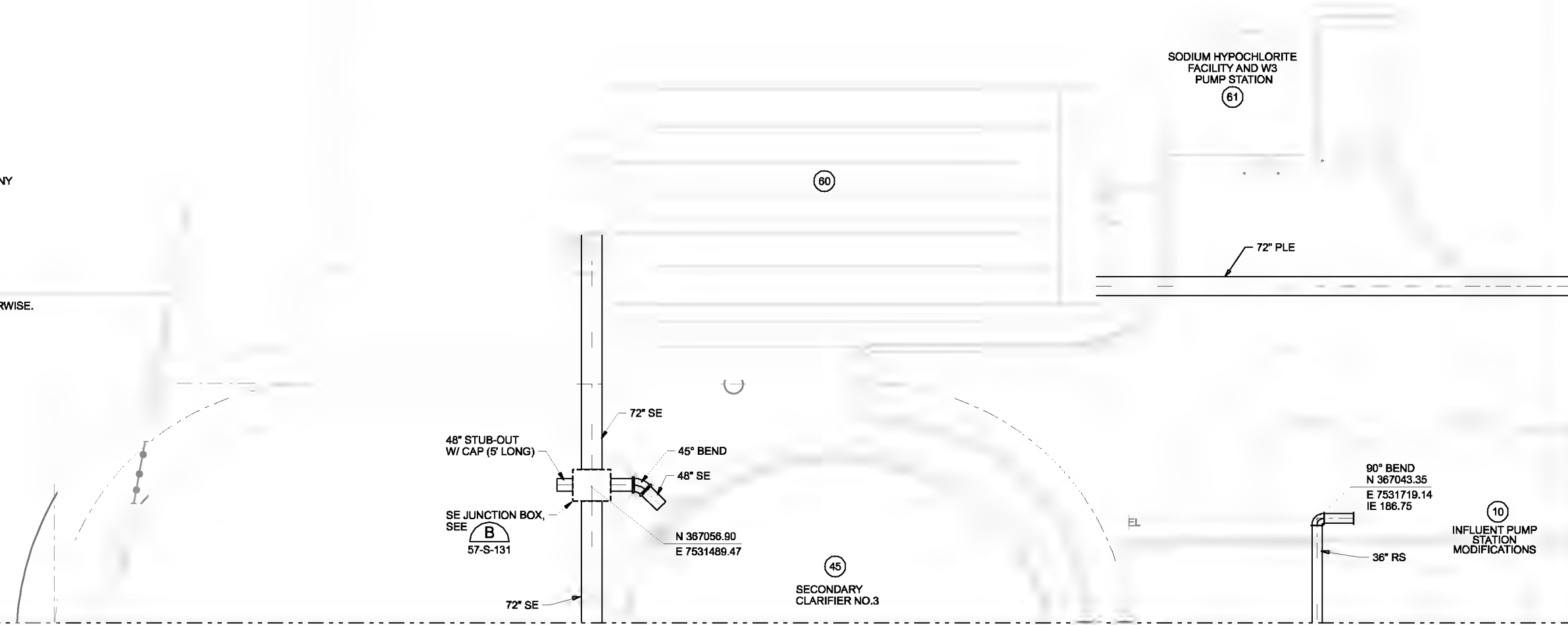
DSGN JT ASHLEY DR PALONG CHK DJ PETERSON APVD CW MASSIE	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	NO. DATE BY APVD	REVISION	DLM JAB	APVD	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.  IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CH2MHILL  CAROLLO engineers	CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENT PROJECT WWTP-03-01 LINN COUNTY, OREGON	SITE DEVELOPMENT CHEMICAL YARD PIPING PLAN AREA 101	SHEET 154 DWG 05-CY-101C DATE MAY 19 2006 PROJ 326918
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NOTES:

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8. PROVIDE 3' MIN COVER ON ALL PIPES, UNLESS SHOWN OTHERWISE.
9. FOR BURIED VALVES, SEE (15840)



SODIUM HYPOCHLORITE FACILITY AND W3 PUMP STATION (61)

INFLUENT PUMP STATION MODIFICATIONS (10)

MATCH LINE, SEE DWG 05-CY-103D

MATCH LINE, SEE DWG 05-CY-102D

DSGN	JTASHLEY								
DR	PALONG								
CHK	DJ.PETERSON	01/20/10							
APVD	CW.MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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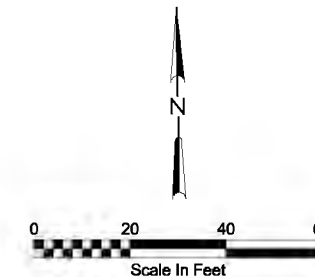
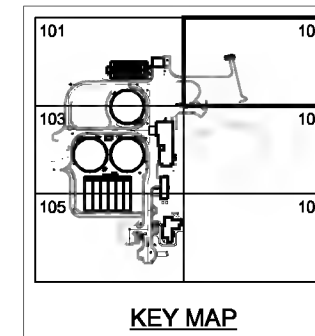


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
PROCESS YARD PIPING PLAN
AREA 101

SHEET	155
DWG	05-CY-101D
DATE	MAY 19 2006
PROJ	326918

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— EXST 48" PLANT EFFLUENT
 — EXST 54" PLANT EFFLUENT

FLOW CONTROL STRUCTURE, SEE DWG 07-S-141

TOP 72" PIPE
 EL 185.31
 N 367191.12
 E 7531980.94
 IE 178.00

72" PLE
 2
 05-CY-203

N 367114.16
 E 7531933.74
 IE 182.00

BURIED EFFLUENT JUNCTION BOX, SEE C
 57-S-131

SS MANHOLE
 N 367101.22
 E 7531947.77
 RIM 199.86
 IE (S) 191.63

BURIED GATE VALVE AND VALVE BOX 15840
 N 367058.23
 E 7531943.83

SS MANHOLE
 N 367058.03
 E 7531872.94
 RIM 198.02
 IE (SW) 193.87

SS MANHOLE
 N 367050.54
 E 7531910.21
 RIM 197.87

CONNECT TO EXST 6" W3 WITH 6" TEE

BURIED GATE VALVE AND VALVE BOX 15840 TYP OF 3

SECONDARY CLARIFIER/CHLORINE CONTACT BASIN NO. 1

SEE NOTE 7

SECONDARY CLARIFIER/CHLORINE CONTACT BASIN NO. 2

NOTES:

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MATCH LINE, SEE DWG 05-CY-101

MATCH LINE, SEE DWG 05-CY-104

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DSGN	JT ASHLEY						
DR	PALONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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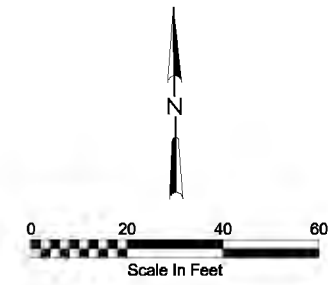
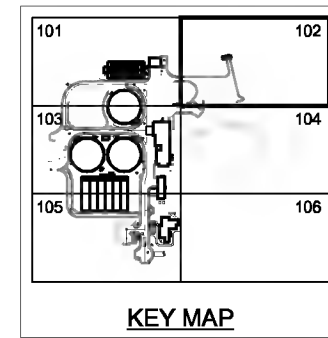
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
 YARD PIPING PLAN
 AREA 102

SHEET	156
DWG	05-CY-102
DATE	MAY 19 2006
PROJ	326918

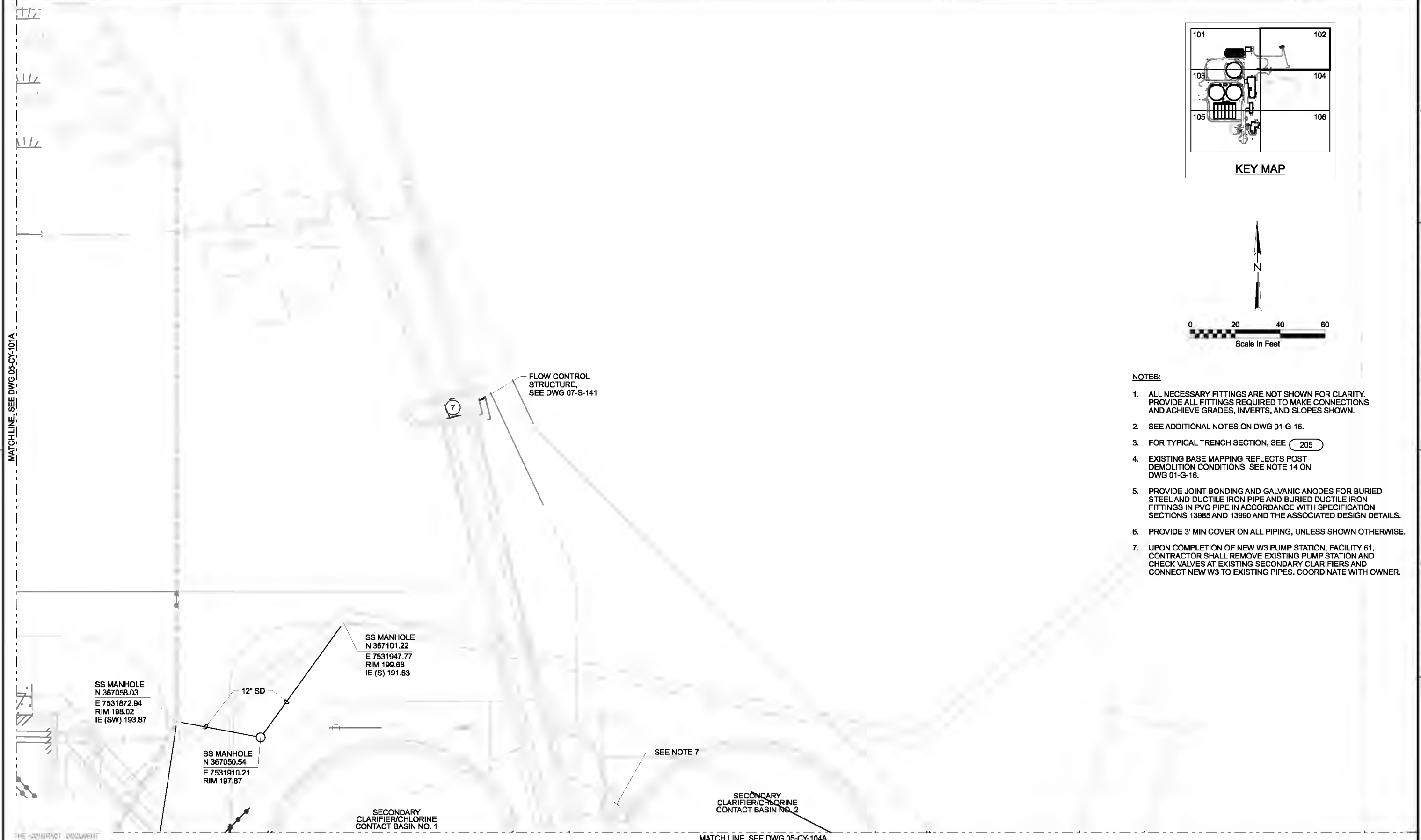
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MATCH LINE, SEE DWG 05-CY-101A



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6. PROVIDE 3' MIN COVER ON ALL PIPING, UNLESS SHOWN OTHERWISE.
7. UPON COMPLETION OF NEW W3 PUMP STATION, FACILITY 61, CONTRACTOR SHALL REMOVE EXISTING PUMP STATION AND CHECK VALVES AT EXISTING SECONDARY CLARIFIERS AND CONNECT NEW W3 TO EXISTING PIPES. COORDINATE WITH OWNER.



MATCH LINE, SEE DWG 05-CY-104A

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DR	PA LONG									
CHK	DJ PETERSON	01/20/10								
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD				

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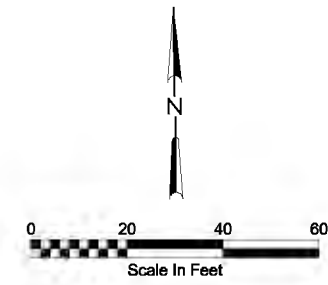
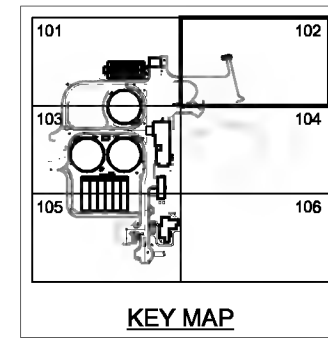
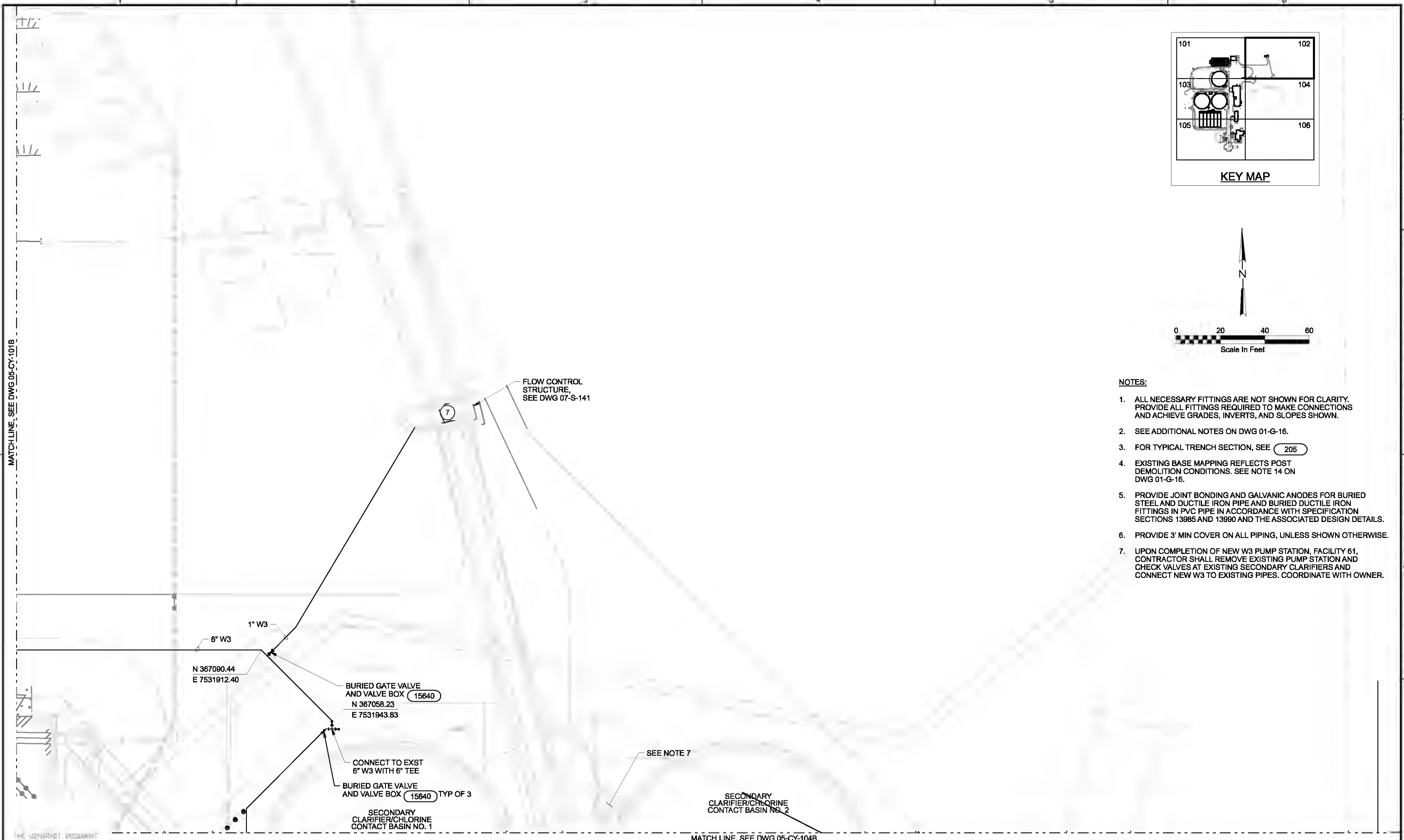
CH2MHILL **CAROLLO**
 engineers

CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
 SS/SD YARD PIPING PLAN
 AREA 102

SHEET	157
DWG	05-CY-102A
DATE	MAY 19 2006
PROJ	326918

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DSGN	JT ASHLEY						
DR	PA LONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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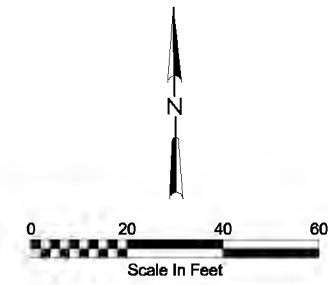
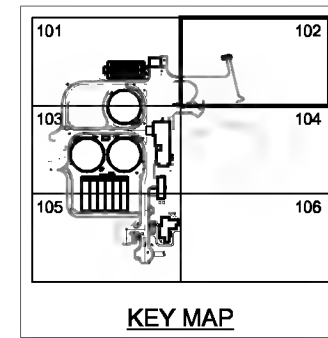
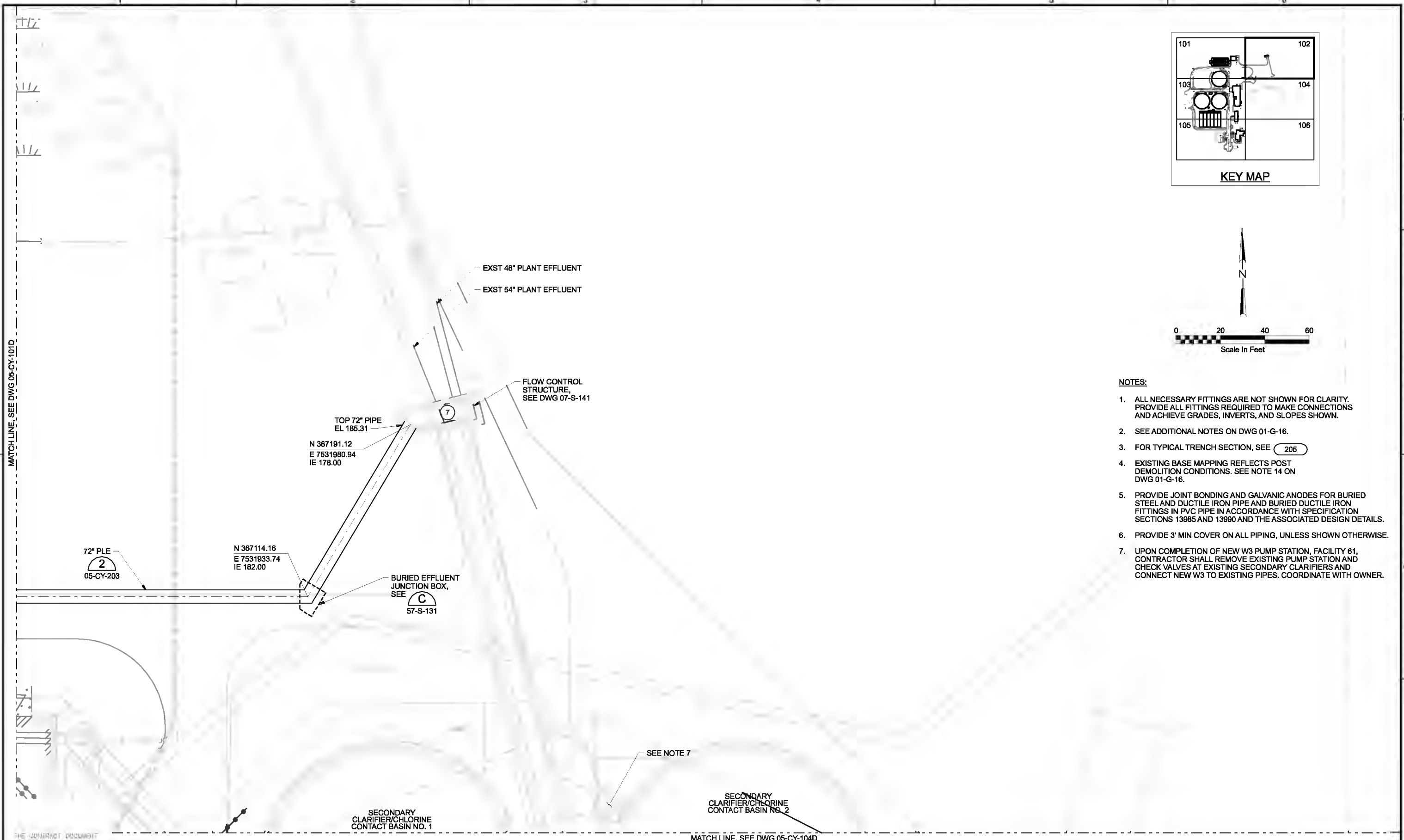


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
WATER YARD PIPING PLAN
AREA 102

SHEET	158
DWG	05-CY-102B
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
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 2. SEE ADDITIONAL NOTES ON DWG 01-G-16.
 3. FOR TYPICAL TRENCH SECTION, SEE 205
 4. EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 01-G-16.
 5. PROVIDE JOINT BONDING AND GALVANIC ANODES FOR BURIED STEEL AND DUCTILE IRON PIPE AND BURIED DUCTILE IRON FITTINGS IN PVC PIPE IN ACCORDANCE WITH SPECIFICATION SECTIONS 13985 AND 13990 AND THE ASSOCIATED DESIGN DETAILS.
 6. PROVIDE 3' MIN COVER ON ALL PIPING, UNLESS SHOWN OTHERWISE.
 7. UPON COMPLETION OF NEW W3 PUMP STATION, FACILITY 61, CONTRACTOR SHALL REMOVE EXISTING PUMP STATION AND CHECK VALVES AT EXISTING SECONDARY CLARIFIERS AND CONNECT NEW W3 TO EXISTING PIPES. COORDINATE WITH OWNER.

MATCH LINE, SEE DWG 05-CY-101D

MATCH LINE, SEE DWG 05-CY-104D

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, CONTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 2006 BY JAMES T. ASHLEY, STATE OF OREGON, P.E., NO. 40109.

DSGN	JT ASHLEY						
DR	PA LONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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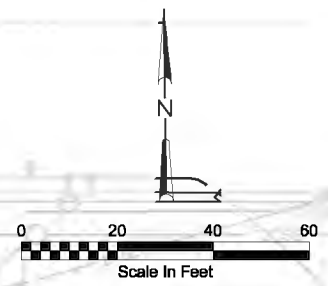
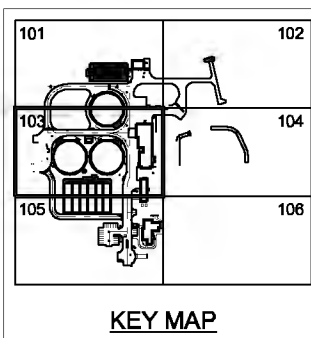
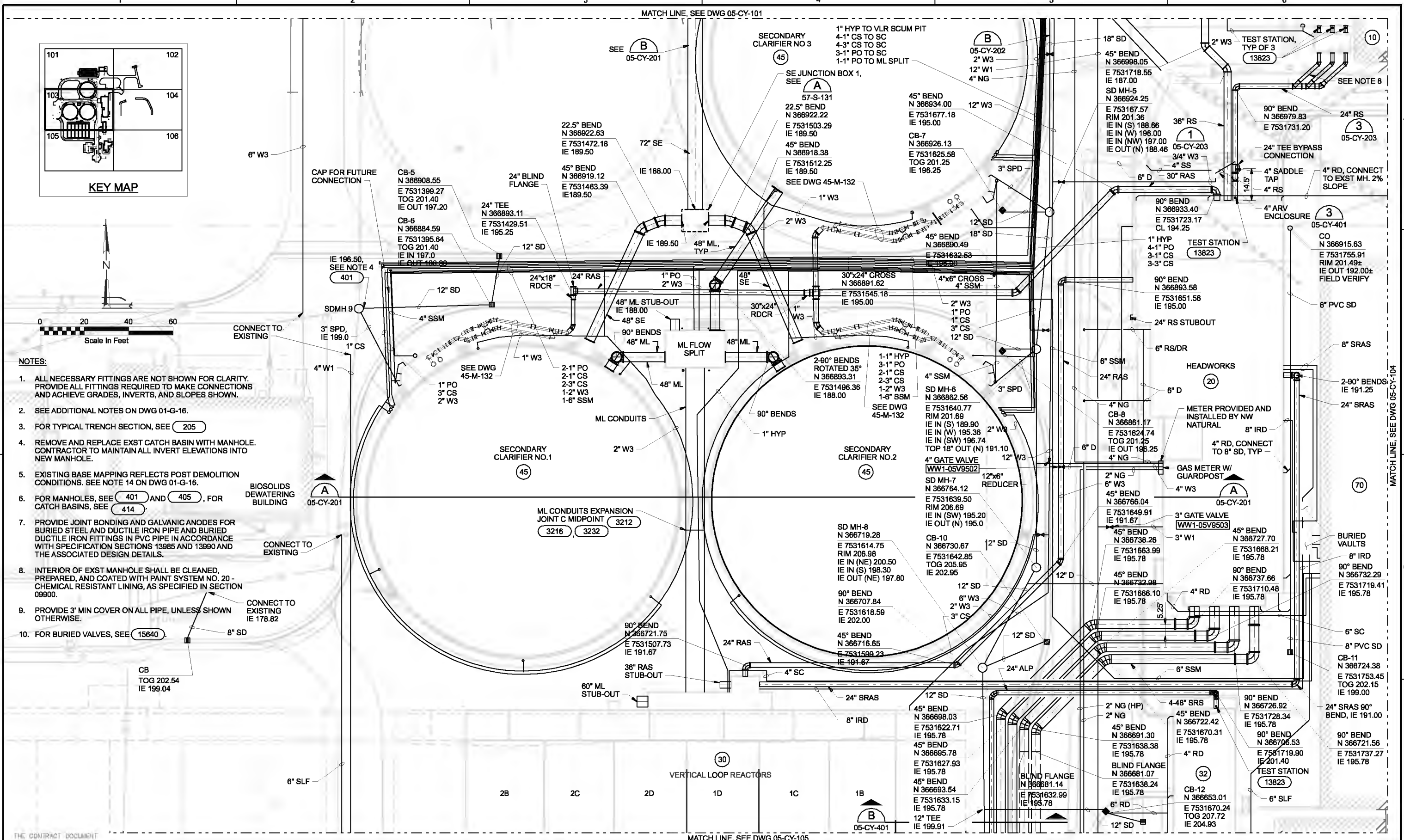


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
PROCESS YARD PIPING PLAN
 AREA 102

SHEET	159
DWG	05-CY-102D
DATE	MAY 19 2006
PROJ	326918

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 - REMOVE AND REPLACE EXST CATCH BASIN WITH MANHOLE. CONTRACTOR TO MAINTAIN ALL INVERT ELEVATIONS INTO NEW MANHOLE.
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 - INTERIOR OF EXST MANHOLE SHALL BE CLEANED, PREPARED, AND COATED WITH PAINT SYSTEM NO. 20 - CHEMICAL RESISTANT LINING, AS SPECIFIED IN SECTION 09900.
 - PROVIDE 3' MIN COVER ON ALL PIPE, UNLESS SHOWN OTHERWISE.
 - FOR BURIED VALVES, SEE (15840)

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED AUGUST 2008 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 50132PE.

DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD	GTM	N
DR	PALONG							
CHK	DJ PETERSON							
APVD	CW MASSIE							
(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT								

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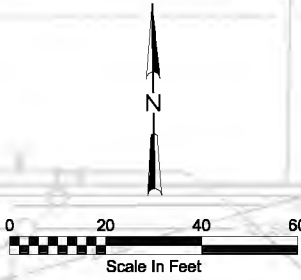
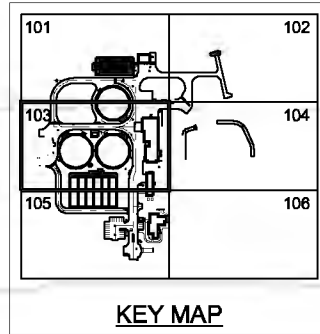


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
YARD PIPING PLAN
 AREA 103

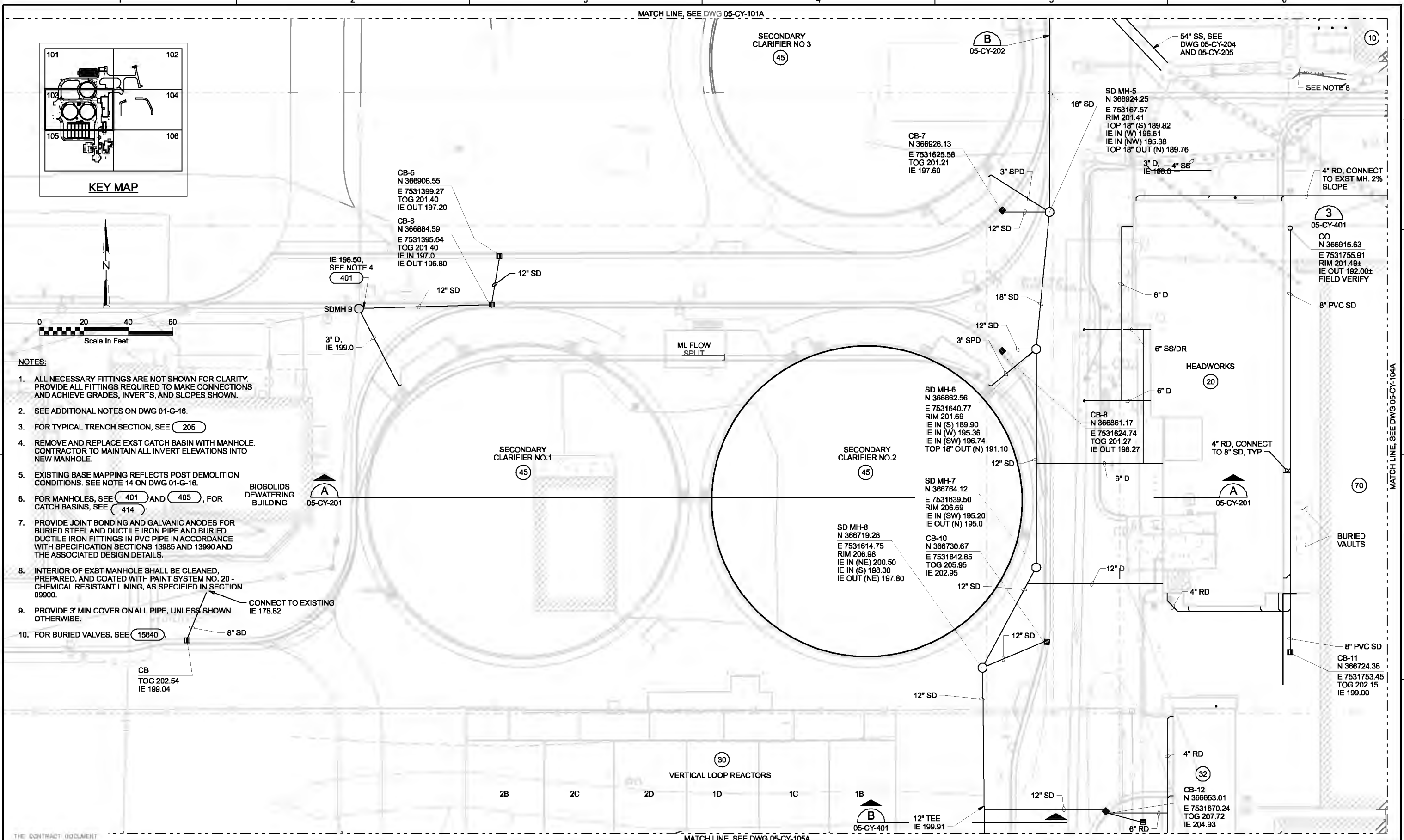
SHEET	160
DWG	05-CY-103
DATE	MAY 19 2006
PROJ	326918

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DSGN	JT ASHLEY						
DR	PA LONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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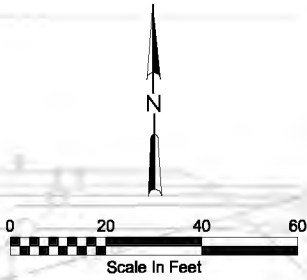
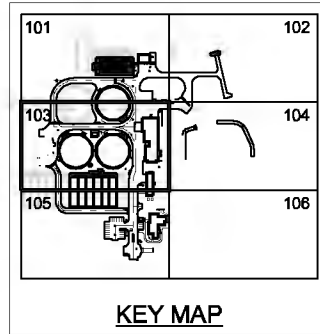


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
SS/SSD YARD PIPING PLAN
 AREA 103

SHEET	161
DWG	05-CY-103A
DATE	MAY 19 2006
PROJ	326918

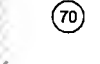
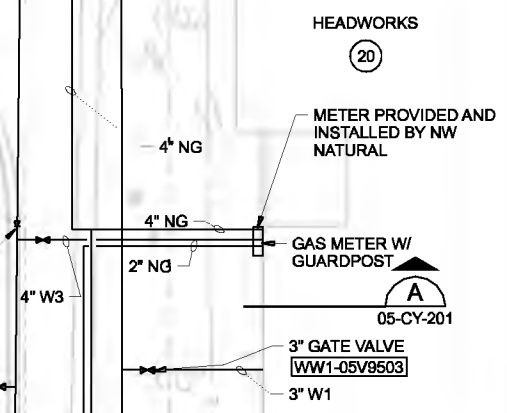
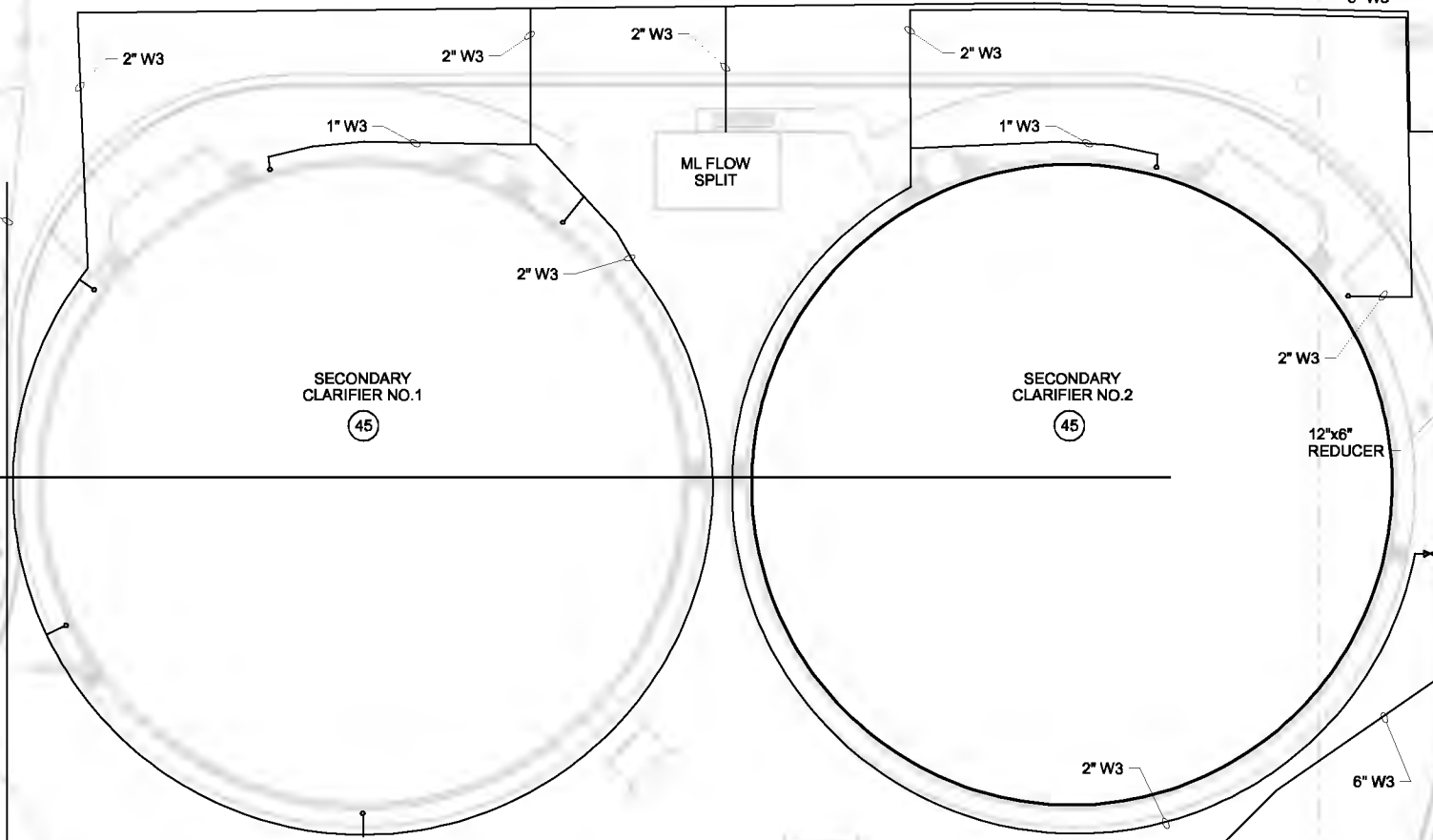
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BIOSOLIDS DEWATERING BUILDING



BURIED VAULTS

VERTICAL LOOP REACTORS

2B 2C 2D 1D 1C 1B



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DSGN	JTASHLEY						
DR	PALONG						
CHK	D.J.PETERSON	01/20/10					
APVD	CW.MASSIE	NO.	DATE	REVISION	BY	APVD	

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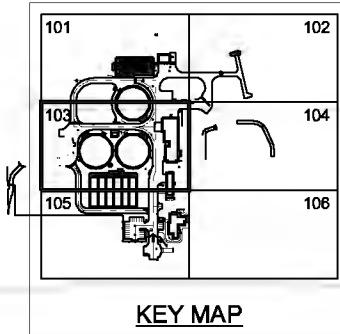
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
WATER YARD PIPING PLAN
 AREA 103

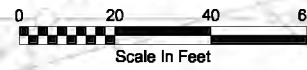
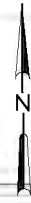
SHEET	162
DWG	05-CY-103B
DATE	MAY 19 2006
PROJ	326918

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MATCH LINE, SEE DWG 05-CY-101C



KEY MAP



NOTES:

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9. PROVIDE 3' MIN COVER ON ALL PIPE, UNLESS SHOWN OTHERWISE.
10. FOR BURIED VALVES, SEE (15640)

BIOSOLIDS DEWATERING BUILDING

(A) 05-CY-201

CAP FOR FUTURE CONNECTION
1-3" CS
1-1" HYP
1-1" PO

2-3" CS
2-1" HYP
2-1" PO

SECONDARY CLARIFIER NO 3
(45)

4-3" CS TO SC
4-1" HYP TO SC
1-1" HYP TO VLR
4-1" PO TO SC

3" CS SUPPLY
3" CS
1" PO

2-3" CS
3-1" HYP
2-1" PO

1" HYP

1" PO

ML FLOW SPLIT

1-3" CS
1-1" HYP
1-1" PO

1" HYP

3" CS
3" CS SUPPLY

1" PO

SECONDARY CLARIFIER NO.1
(45)

SECONDARY CLARIFIER NO.2
(45)

1" PO

3" CS
3" CS SUPPLY

HEADWORKS
(20)

(A) 05-CY-201

(70)

BURIED VAULTS

(30) VERTICAL LOOP REACTORS

2B 2C 2D 1D 1C 1B

(B) 05-CY-401

TEST STATION
(32) 13823

MATCH LINE, SEE DWG 05-CY-105C

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DSGN	JTASHLEY						
DR	PALONG						
CHK	DJ.PETERSON	01/20/10					
APVD	CW.MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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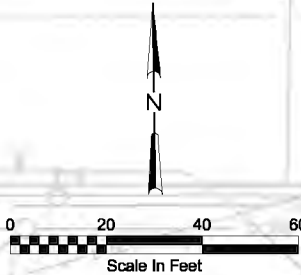
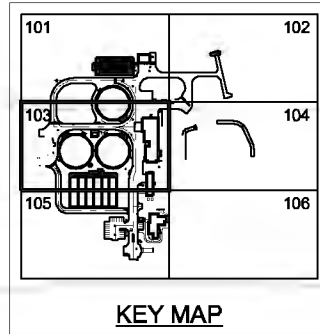


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
CHEMICAL YARD PIPING PLAN
AREA 103

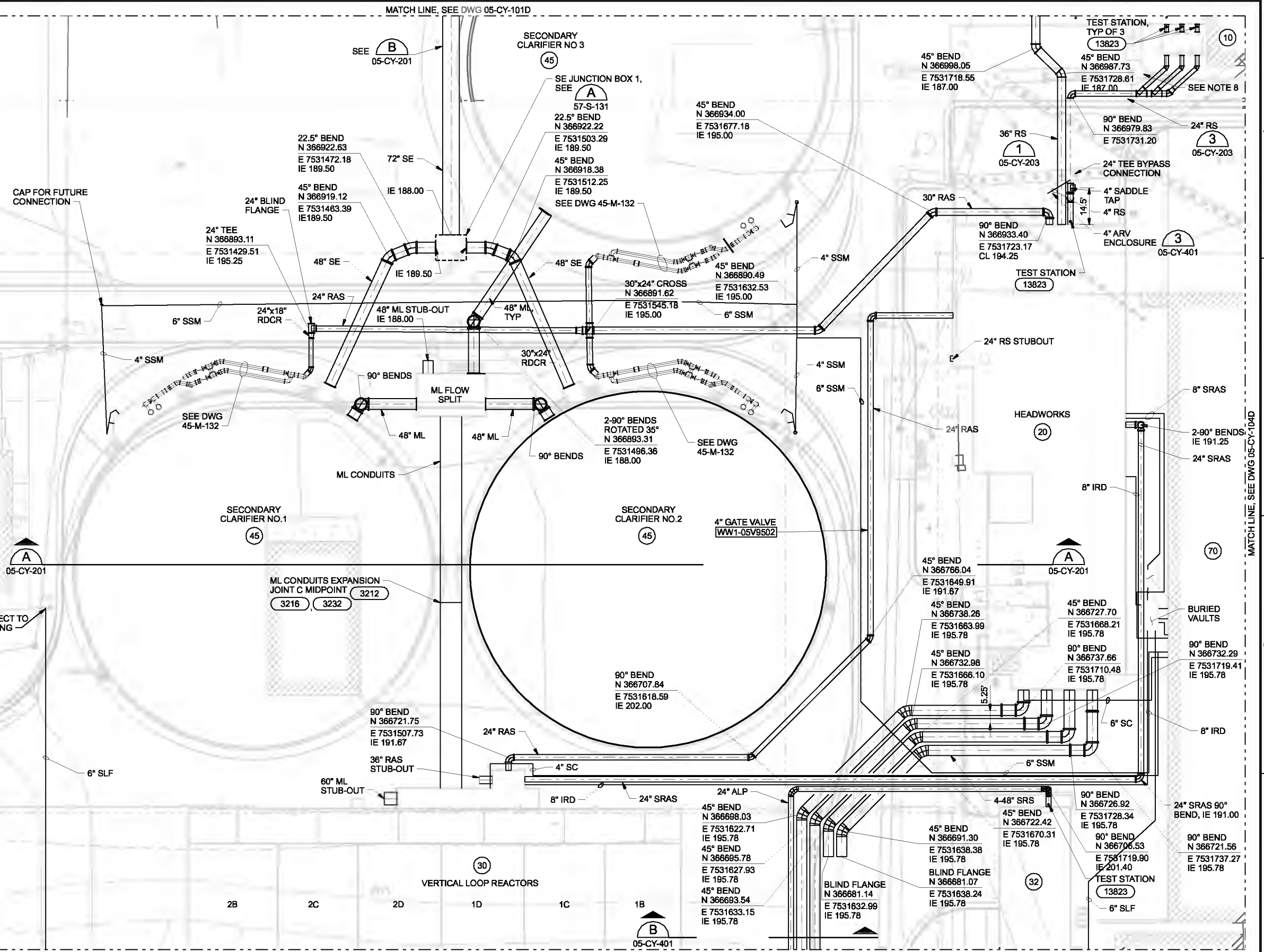
SHEET	163
DWG	05-CY-103C
DATE	MAY 19 2006
PROJ	326918

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DSGN	JT ASHLEY				
DR	PALONG				
CHK	DJ PETERSON	01/20/10			
APVD	CW MASSIE	NO.	DATE	REVISION	BY

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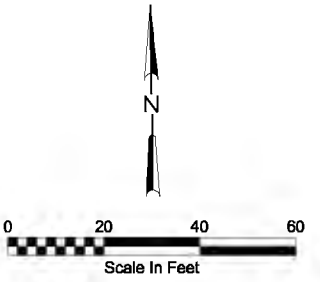
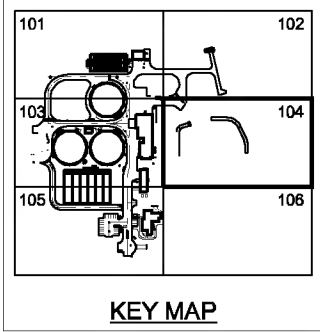
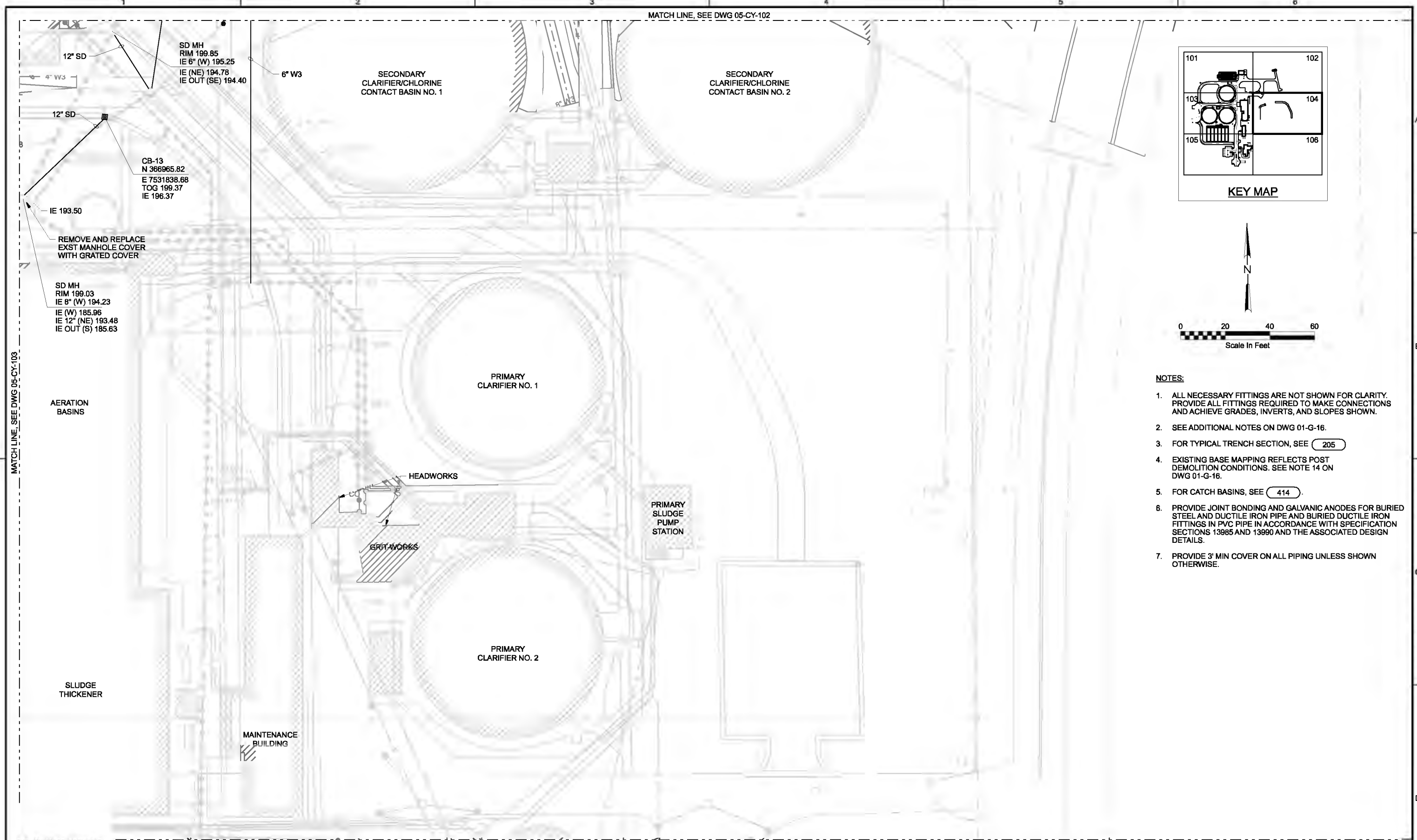


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
PROCESS YARD PIPING PLAN
 AREA 103

SHEET	164
DWG	05-CY-103D
DATE	MAY 19 2006
PROJ	326918

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MATCH LINE, SEE DWG 05-CY-103.

MATCH LINE, SEE DWG 05-CY-102

MATCH LINE, SEE DWG 05-CY-106

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DSGN	JT ASHLEY						
DR	PA LONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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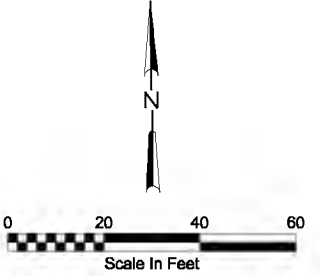
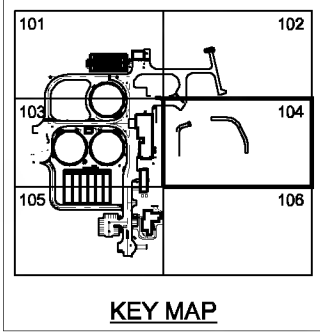
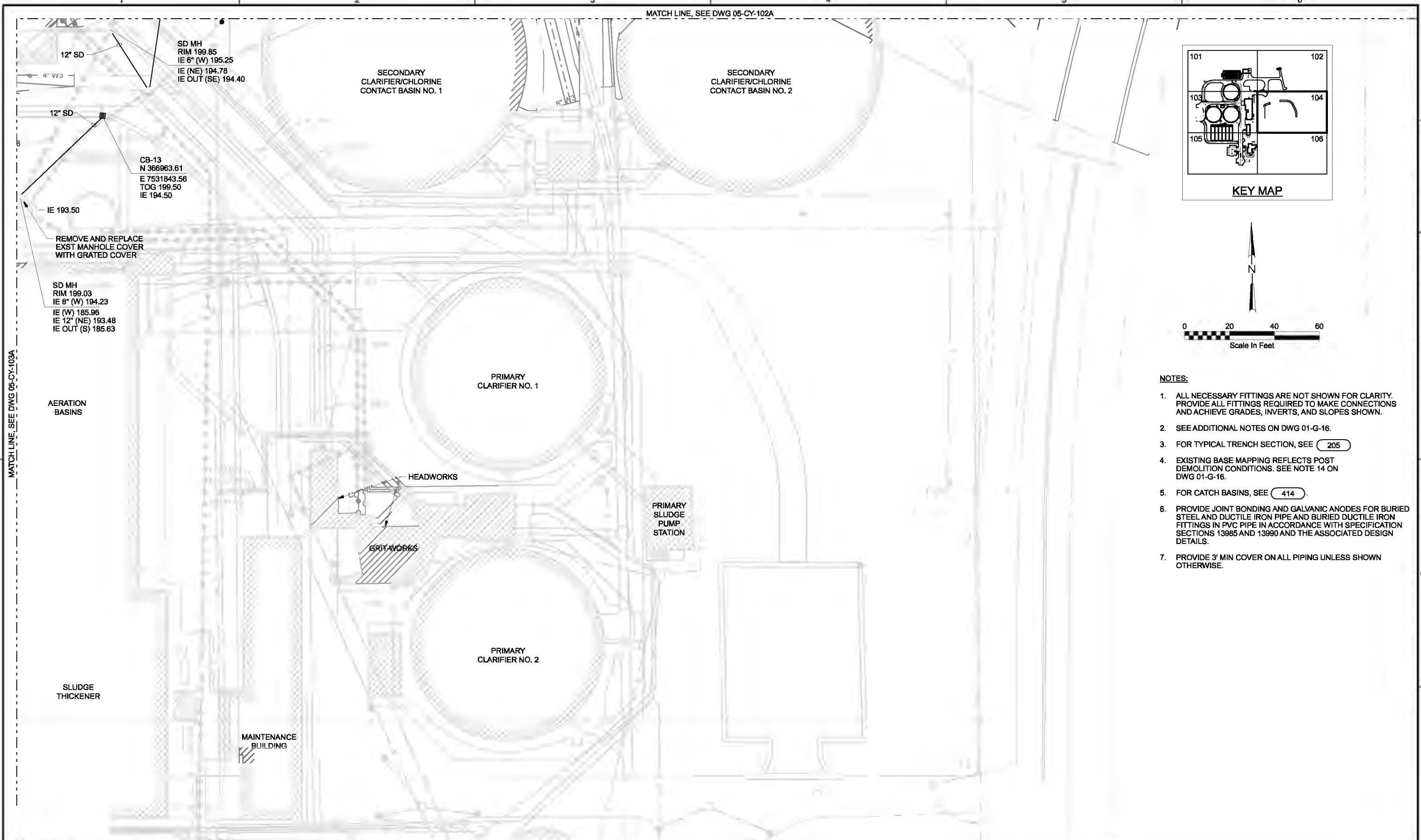


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
 YARD PIPING PLAN
 AREA 104

SHEET	165
DWG	05-CY-104
DATE	MAY 19 2006
PROJ	326918

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THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SCALED AND SIGNED MAY 2006 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 60132PC.

DSGN	JT ASHLEY									
DR	PA LONG									
CHK	DJ PETERSON	01/20/10								
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD				

MATCH LINE, SEE DWG 05-CY-106A

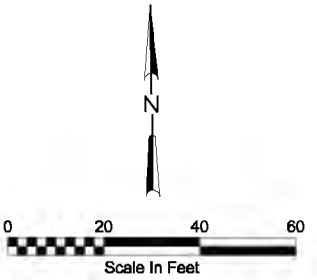
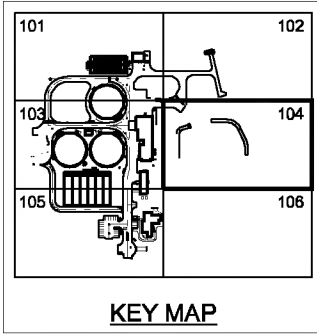
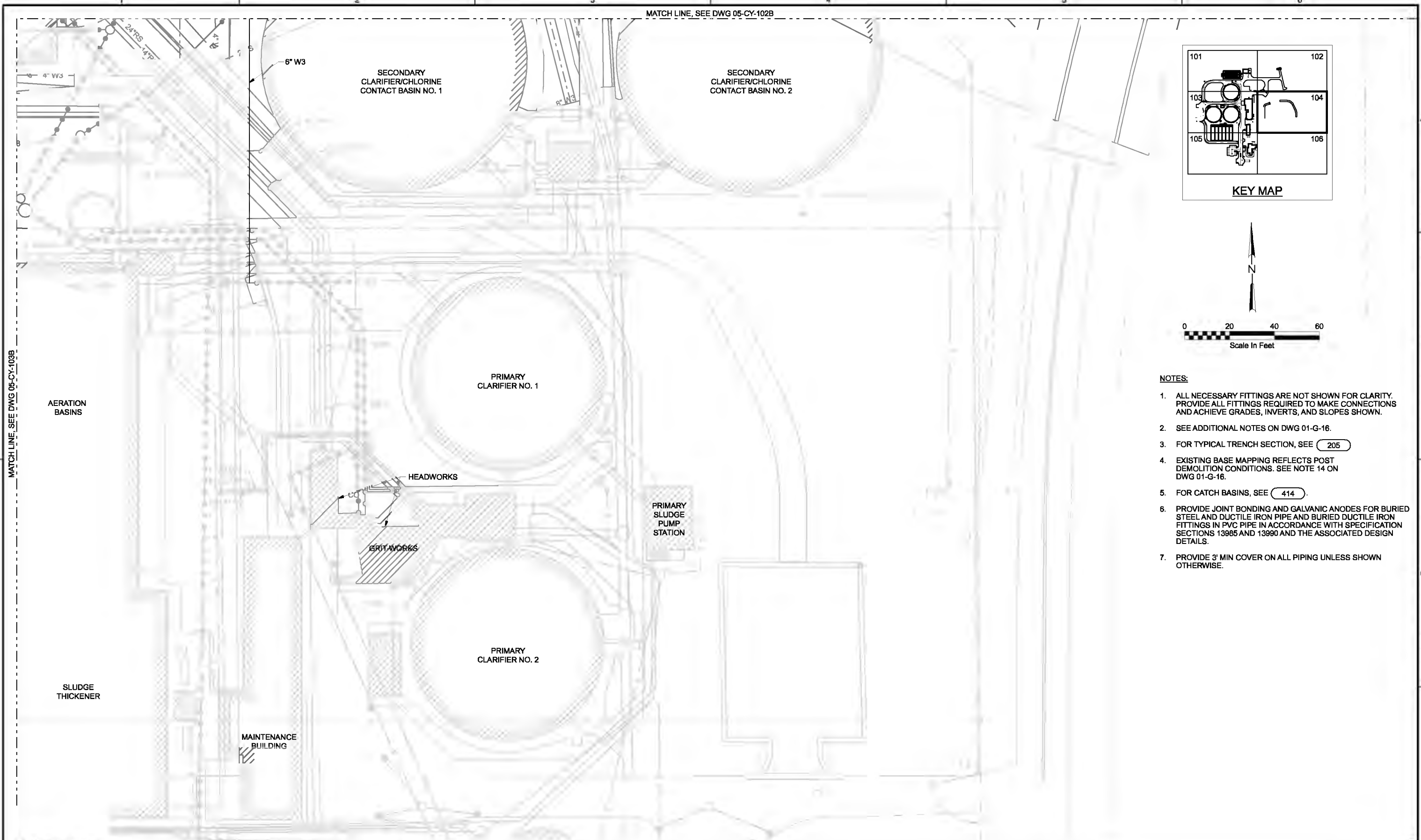
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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
**SS/SD YARD PIPING PLAN
AREA 104**

SHEET	166
DWG	05-CY-104A
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
1. ALL 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-16.
 3. FOR TYPICAL TRENCH SECTION, SEE **205**
 4. EXISTING BASE MAPPING REFLECTS POST DEMOLITION CONDITIONS. SEE NOTE 14 ON DWG 01-G-16.
 5. FOR CATCH BASINS, SEE **414**
 6. PROVIDE JOINT BONDING AND GALVANIC ANODES FOR BURIED STEEL AND DUCTILE IRON PIPE AND BURIED DUCTILE IRON FITTINGS IN PVC PIPE IN ACCORDANCE WITH SPECIFICATION SECTIONS 13985 AND 13990 AND THE ASSOCIATED DESIGN DETAILS.
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DSGN	JT ASHLEY						
DR	PALONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

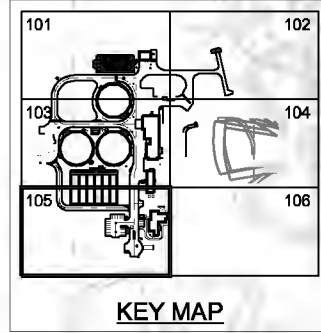
SITE DEVELOPMENT
WATER YARD PIPING PLAN
 AREA 104

SHEET	167
DWG	05-CY-104B
DATE	MAY 19 2006
PROJ	326918

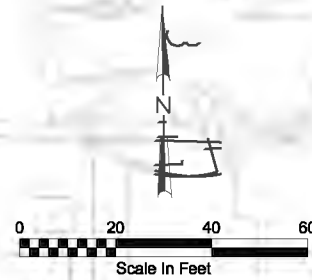
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MATCH LINE, SEE DWG 05-CY-103

VERTICAL LOOP REACTORS

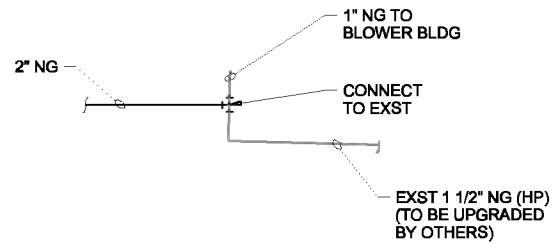
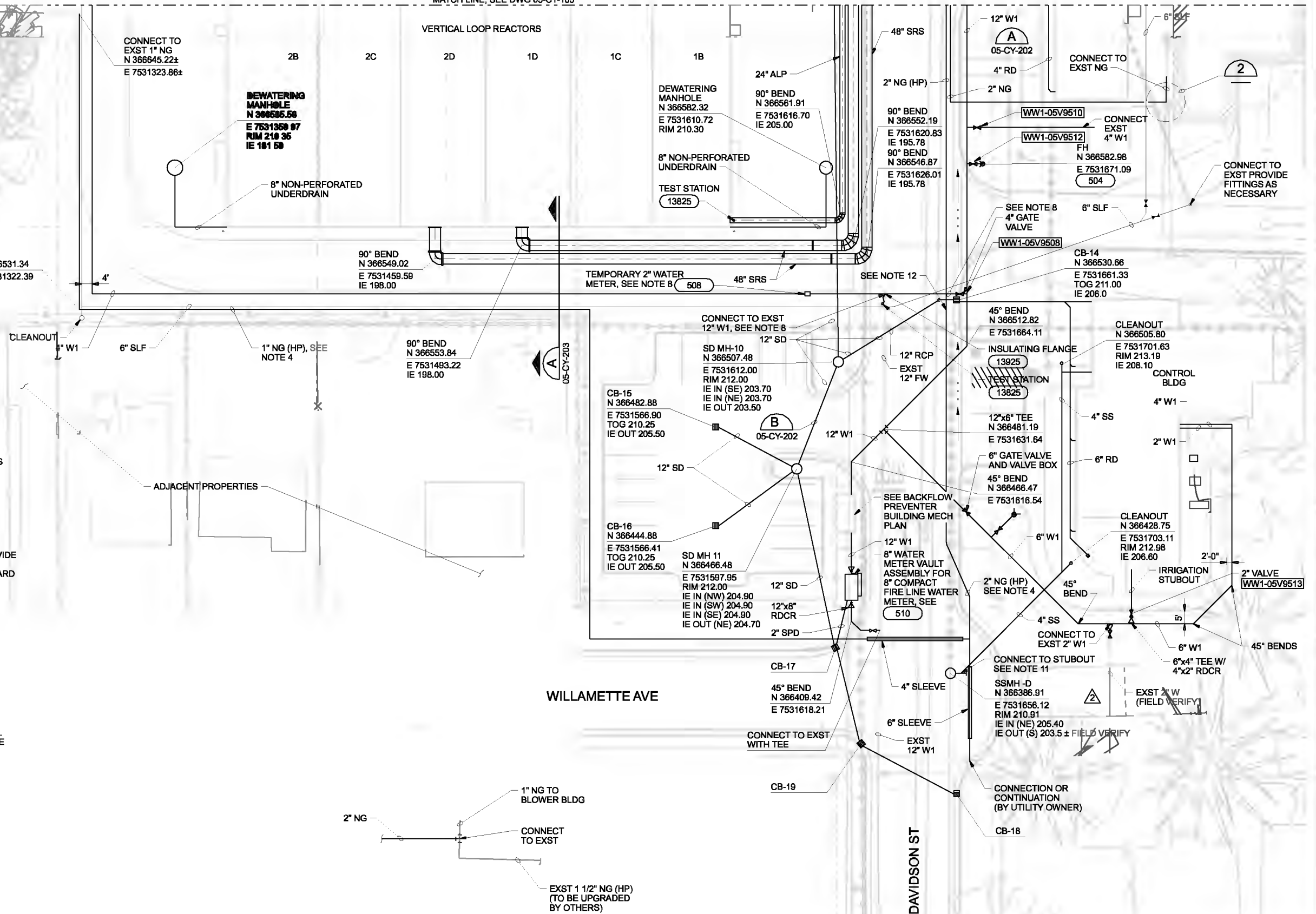


KEY MAP



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- SEE ADDITIONAL NOTES ON DWG 01-G-16.
- FOR TYPICAL TRENCH SECTION, SEE 205
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- PROVIDE 3" MIN COVER ON ALL PIPES UNLESS SHOWN OTHERWISE.
- FOR BURIED VALVES, SEE 15640.
- PROVIDE 5' STUBOUT WITH CAP TO EAST FOR FUTURE CONNECTION. SET INVERT ELEVATION 0.2' HIGHER THAN EXISTING 8" SS.
- CONTRACTOR SHALL PROVIDE TRENCH EXCAVATION AND BACKFILL FOR NEW 1" NG (HP) ONCE NEW 2" NG (HP) HAS BEEN INSTALLED AND OPERABLE.



DETAIL 2

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DSGN	JT ASHLEY								
DR	PALONG								
CHK	DJ PETERSON	01/20/10							
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

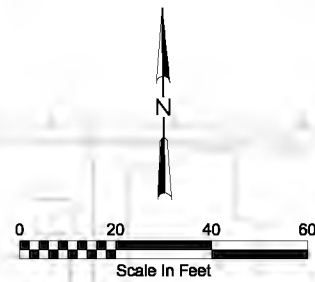
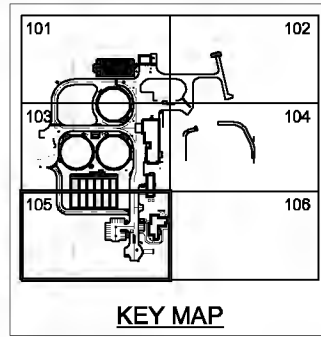
SITE DEVELOPMENT
 YARD PIPING PLAN
 AREA 105

SHEET	168
DWG	05-CY-105
DATE	MAY 19 2006
PROJ	326918

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MATCH LINE, SEE DWG 05-CY-103A

VERTICAL LOOP REACTORS



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11. PROVIDE 5' STUBOUT WITH CAP TO EAST FOR FUTURE CONNECTION, SET INVERT ELEVATION 0.2' HIGHER THAN EXISTING 8" SS.
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ADJACENT PROPERTIES

WILLAMETTE AVE

DAVIDSON ST

DEWATERING MANHOLE
N 366585.56
E 7531359.97
IE 183.00

8" NON-PERFORATED UNDERDRAIN

DEWATERING MANHOLE
N 366582.32
E 7531610.72
RIM 210.30

8" NON-PERFORATED UNDERDRAIN

CB-14
N 366530.66
E 7531661.33
TOG 211.00
IE 206.0

CLEANOUT
N 366505.80
E 7531701.63
RIM 213.19
IE 208.10

CONTROL BLDG

CB-15
N 366482.88
E 7531566.90
TOG 210.25
IE OUT 205.50

SD MH-10
N 366507.48
E 7531612.00
RIM 212.00
IE IN (SE) 203.70
IE IN (NE) 203.70
IE OUT 203.50

CB-16
N 366444.88
E 7531566.41
TOG 210.25
IE OUT 205.50

SD MH 11
N 366466.48
E 7531597.95
RIM 212.00
IE IN (NW) 204.90
IE IN (SW) 204.90
IE IN (SE) 204.90
IE OUT (NE) 204.70

CLEANOUT
N 366428.75
E 7531703.11
RIM 212.98
IE 208.80

CONNECT TO STUBOUT
SEE NOTE 11

SSMH -D
N 366386.91
E 7531656.12
RIM 210.91
IE IN (NE) 205.40
IE OUT (S) 203.5 ± FIELD VERIFY

CONNECTION OR CONTINUATION
(BY UTILITY OWNER)

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DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD
DR	PA LONG					
CHK	DJ PETERSON					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

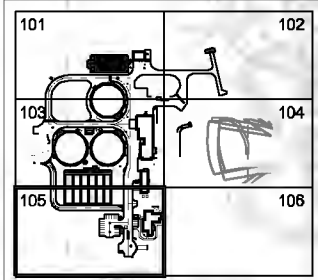
SITE DEVELOPMENT
SS/SD YARD PIPING PLAN
AREA 105

SHEET	169
DWG	05-CY-105A
DATE	MAY 19 2006
PROJ	326918

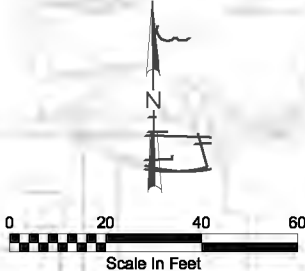
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MATCH LINE, SEE DWG 05-CY-103B

VERTICAL LOOP REACTORS



KEY MAP



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CONNECT TO EXST 1" NG
N 366645.22±
E 7531323.86±

N 366531.34
E 7531322.39

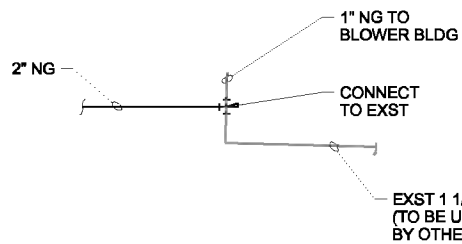
1" NG (HP), SEE
NOTE 4

ADJACENT PROPERTIES

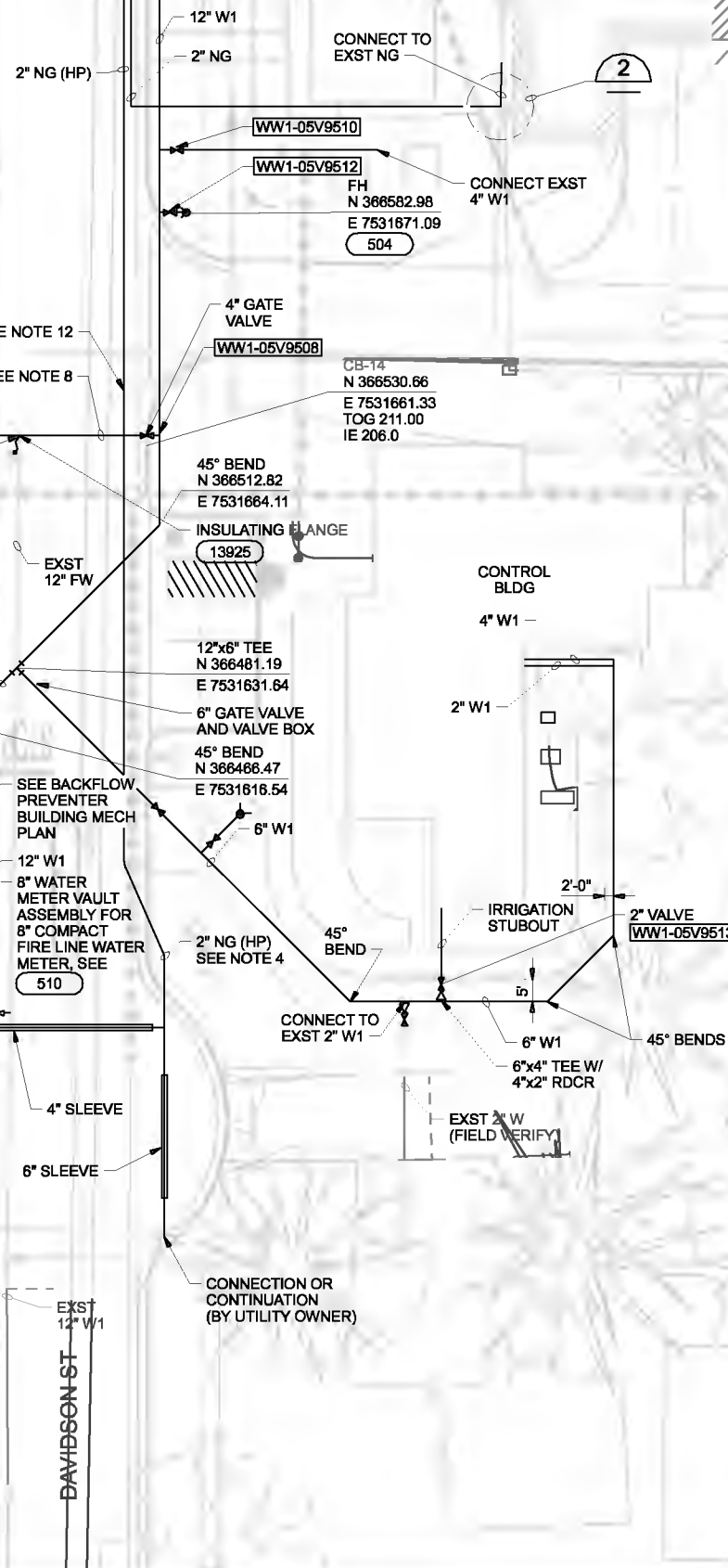
TEMPORARY 4" WATER
METER, SEE NOTE 8 510

CONNECT TO EXST
12" W1, SEE NOTE 8

WILLAMETTE AVE



DETAIL 2
NTS



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, SYSTEM, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SCALED AND SIGNED SEPTEMBER 2008 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 021008.

DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD
DR	PALONG					
CHK	DJ PETERSON					
APVD	CW MASSIE					

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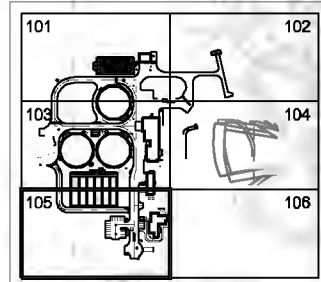


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

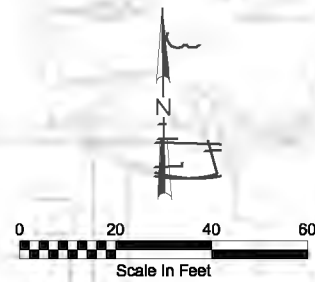
SITE DEVELOPMENT
WATER YARD PIPING PLAN
AREA 105

SHEET	170
DWG	05-CY-105B
DATE	MAY 19 2006
PROJ	326918

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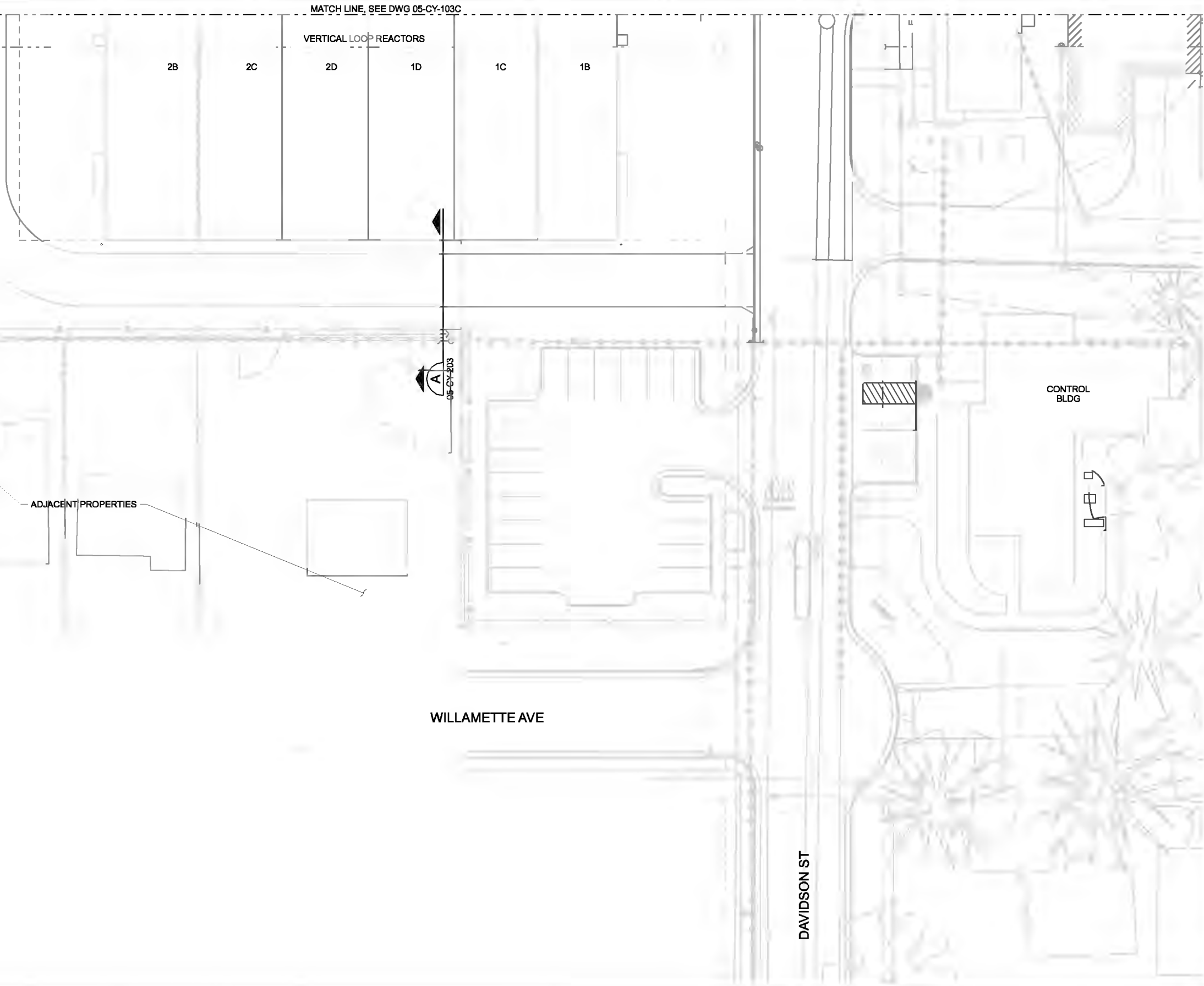


KEY MAP



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ADJACENT PROPERTIES

WILLAMETTE AVE

DAVIDSON ST

CONTROL BLDG

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DSGN	JT ASHLEY						
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CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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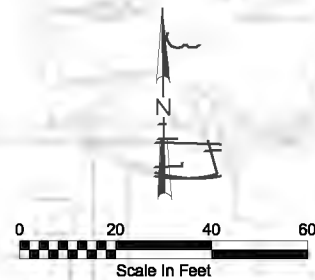
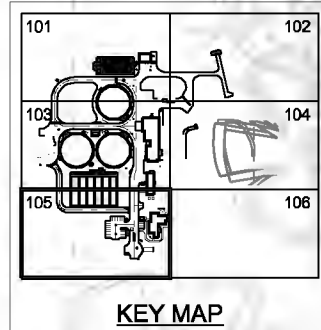


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
 CHEMICAL YARD PIPING PLAN
 AREA 105

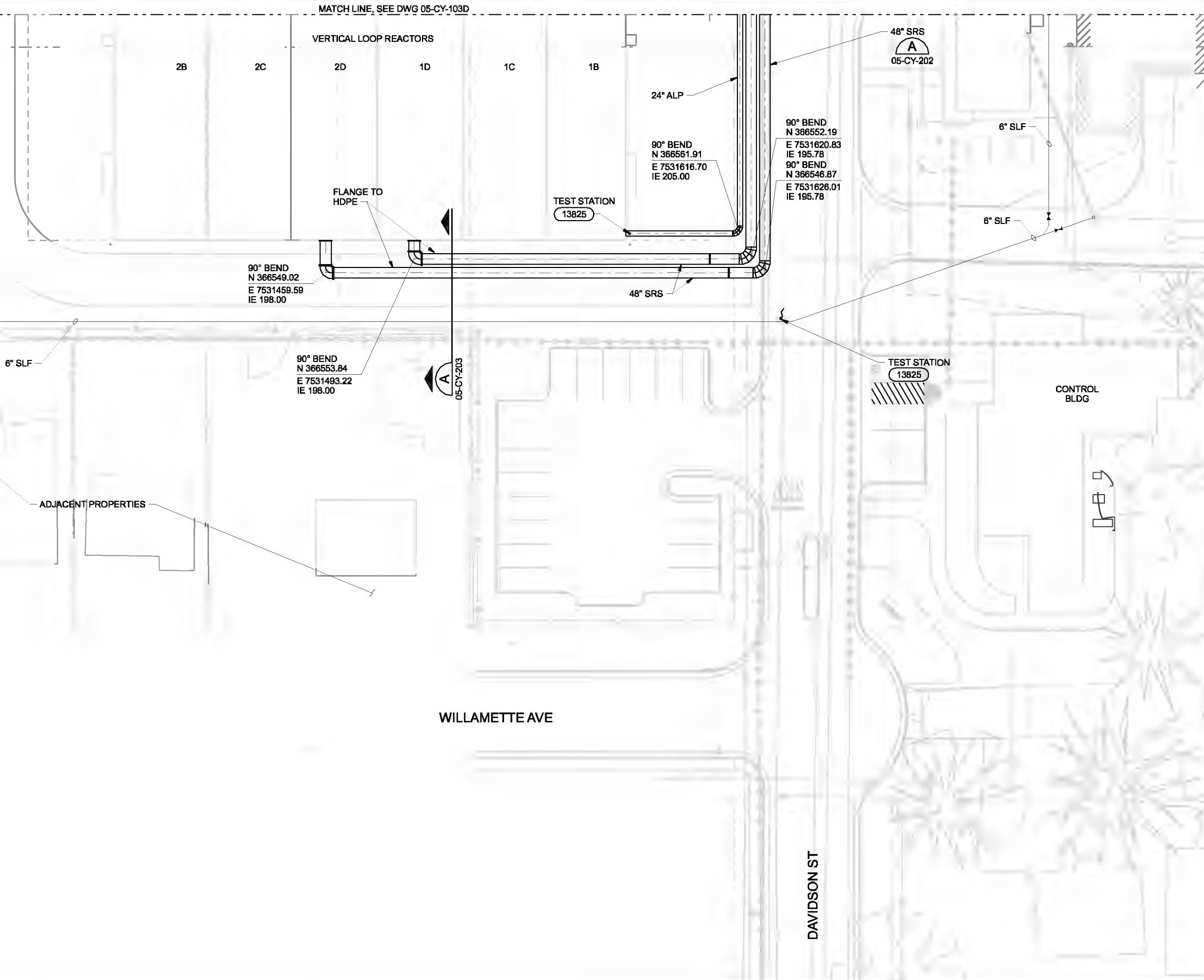
SHEET	171
DWG	05-CY-105C
DATE	MAY 19 2006
PROJ	326918

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DSGN	JT ASHLEY						
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CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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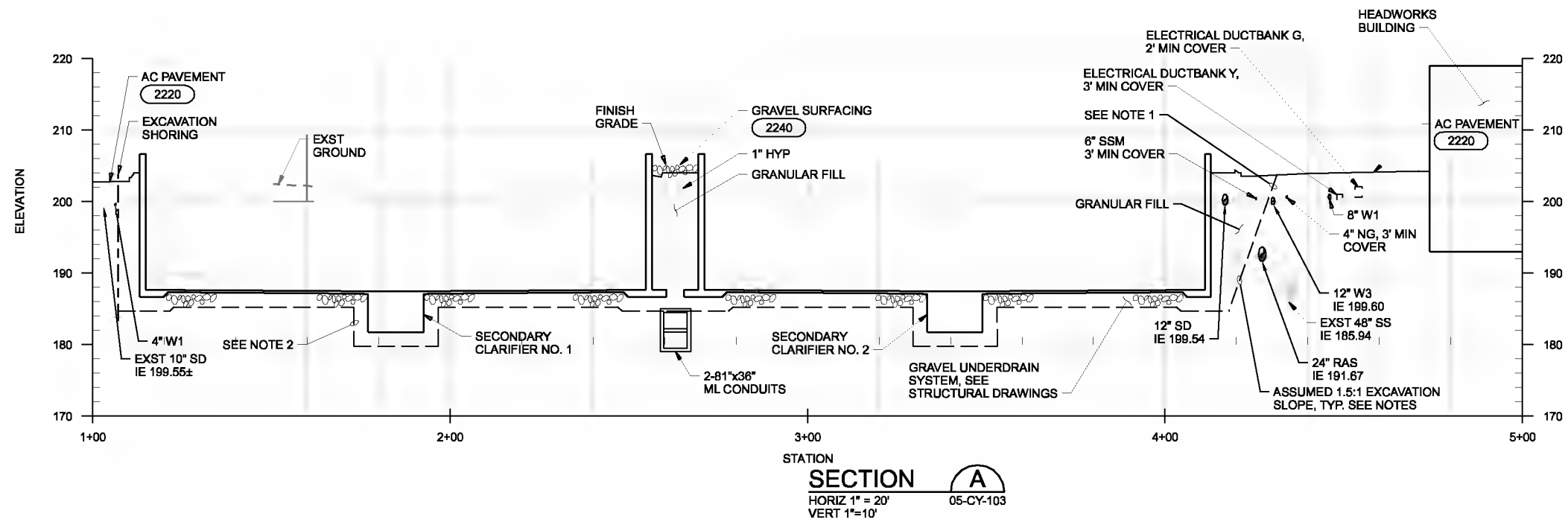


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
 PROCESS YARD PIPING PLAN
 AREA 105

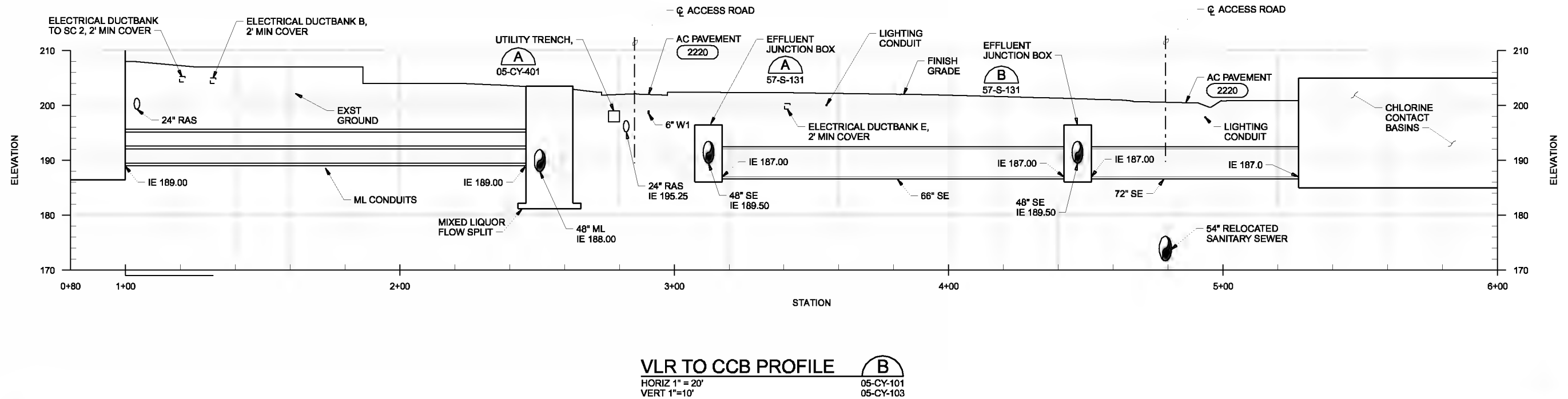
SHEET	172
DWG	05-CY-105D
DATE	MAY 19 2006
PROJ	326918

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NOTES

- EXCAVATION SIDE SLOPES ARE SHOWN SOLELY FOR THE PURPOSE OF ILLUSTRATING 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 STRUCTURAL DRAWINGS FOR PREPARED SUBGRADE AND FOUNDATION REQUIREMENTS.



DSGN	JT ASHLEY	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	GTM JAB BY APVD
DR	PALONG		
CHK	DJ PETERSON		
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.

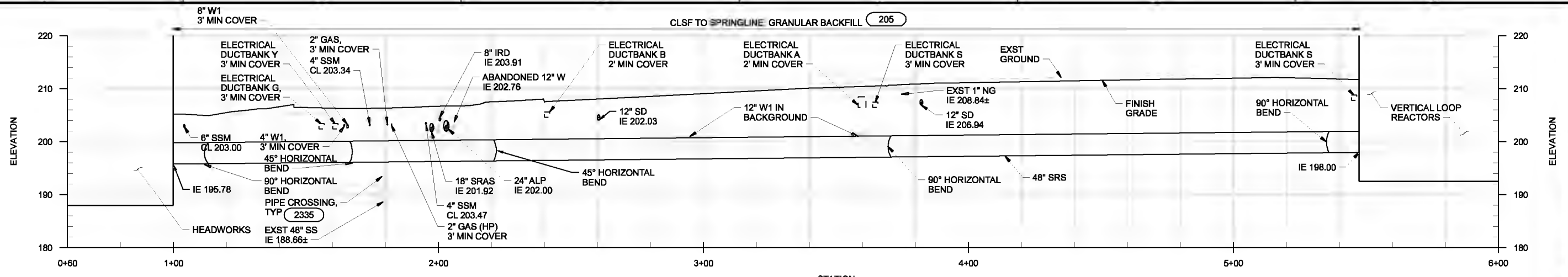


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

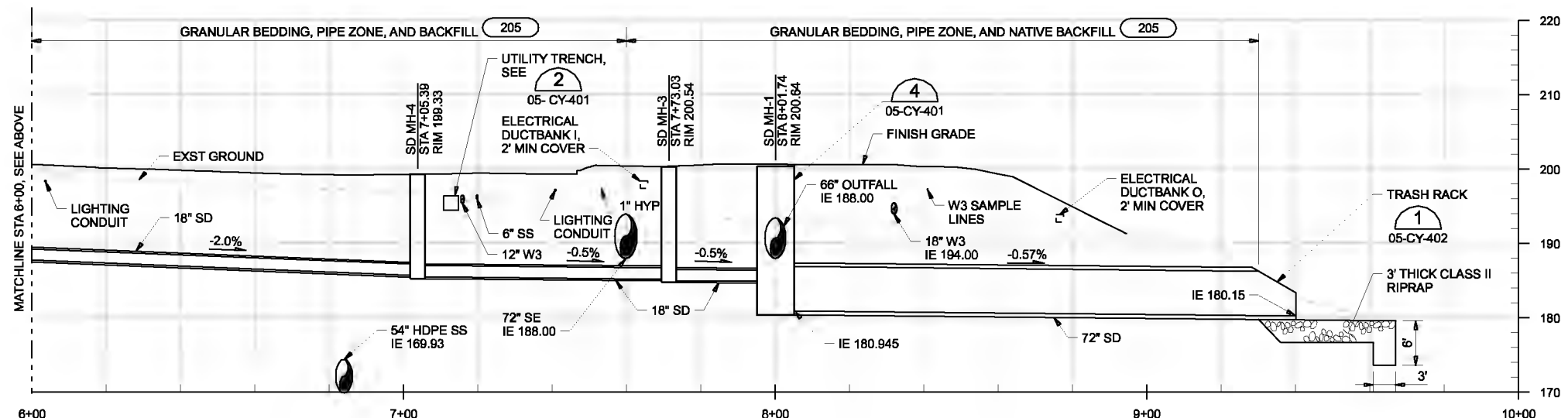
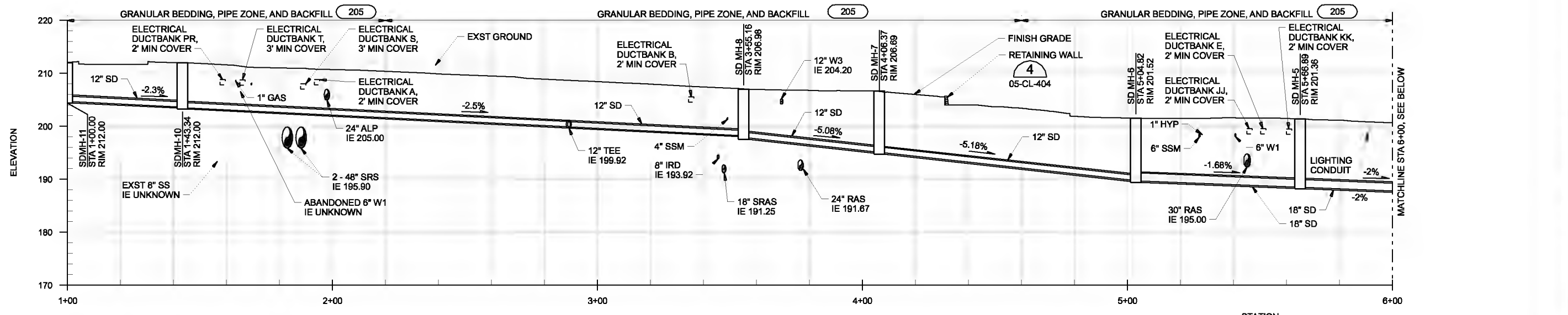
SITE DEVELOPMENT
YARD PIPING SECTIONS

SHEET	173
DWG	05-CY-201
DATE	MAY 19 2006
PROJ	326918

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48" SRS PROFILE
 (A)
 HORIZ 1" = 20'
 VERT 1" = 10'



SD PROFILE
 (B)
 HORIZ 1" = 20'
 VERT 1" = 10'

- NOTES:**
- SEE ADDITIONAL NOTES ON DWG 01-G-16.
 - FOR TYPICAL TRENCH SEE 205.
 - FOR ALL PIPE CROSSINGS WITH LESS THAN 12" CLEARANCE, SEE 2335.

DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD
DR	PALONG					
CHK	DJ PETERSON					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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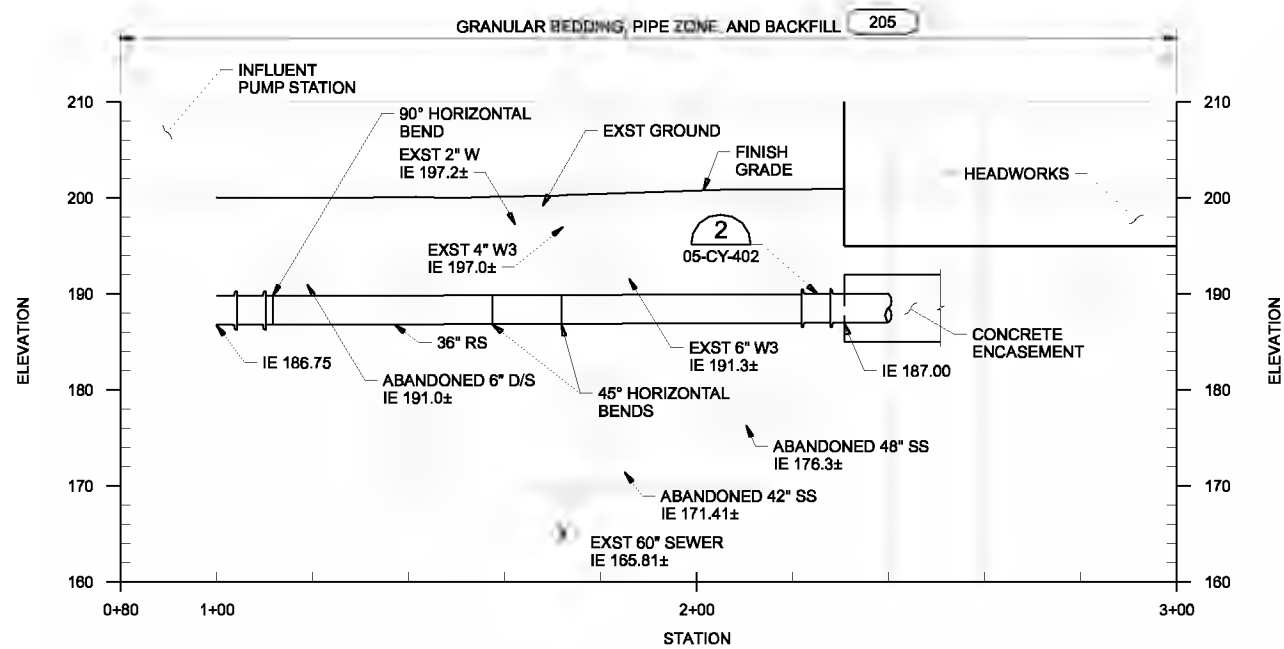


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

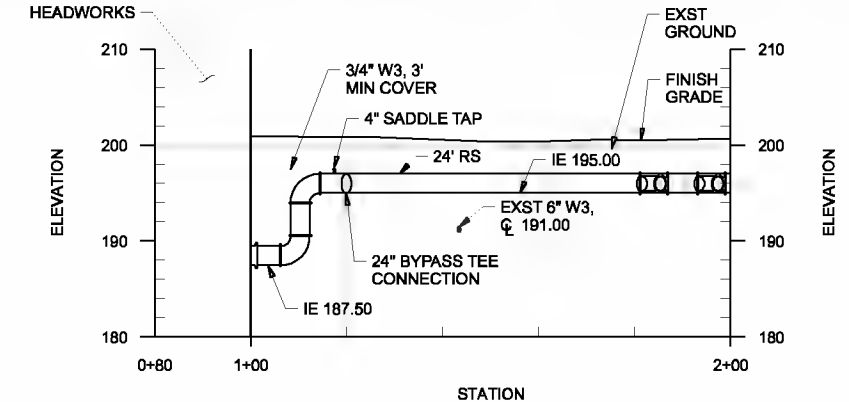
SITE DEVELOPMENT
 YARD PIPING SECTIONS

SHEET	174
DWG	05-CY-202
DATE	MAY 19 2006
PROJ	326918

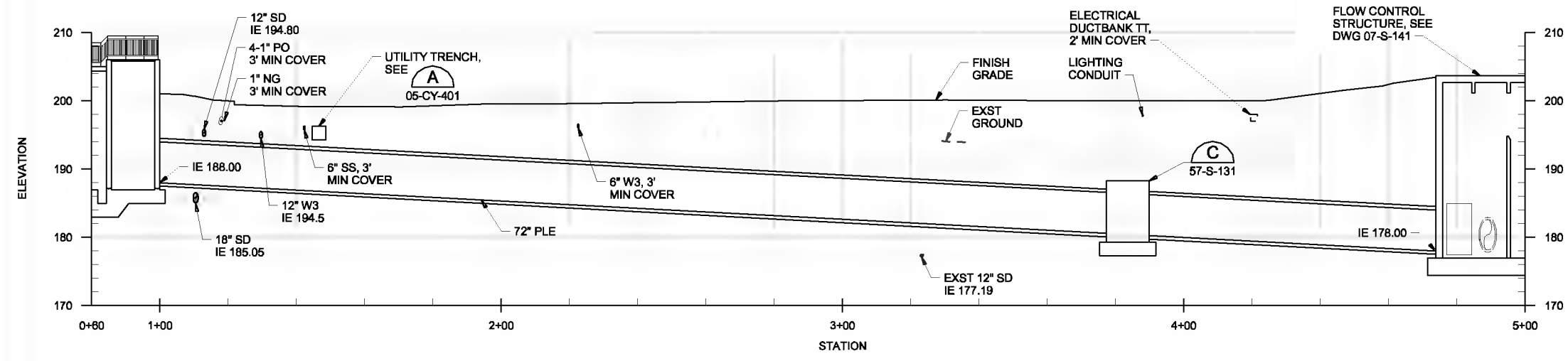
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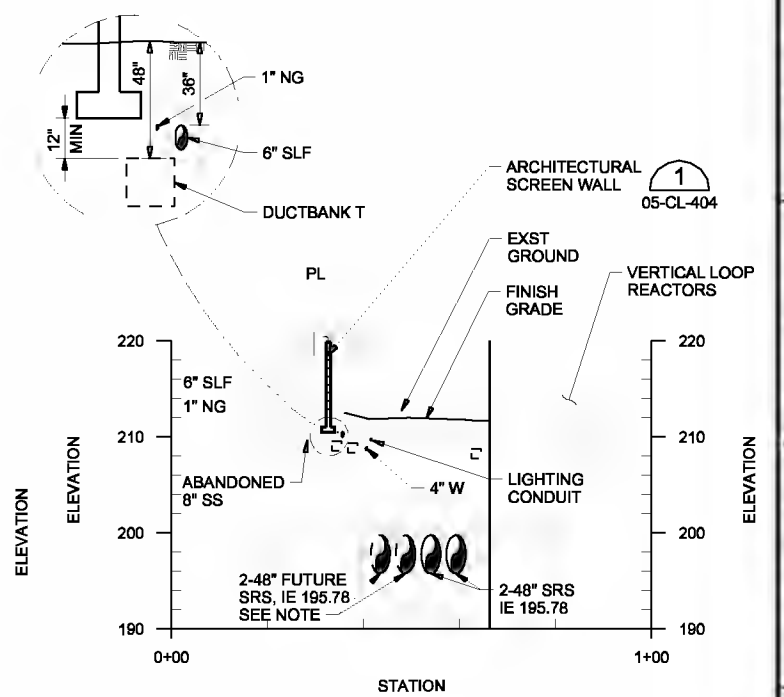
36" RS PROFILE 1
 HORIZ 1" = 20'
 VERT 1" = 10'
 05-CY-101
 05-CY-103



24" RS PROFILE 3
 HORIZ 1" = 20'
 VERT 1" = 10'
 05-CY-103



72" PLE PROFILE 2
 HORIZ 1" = 20'
 VERT 1" = 10'
 05-CY-101
 05-CY-102



NOTE:
 FUTURE 48" SRS PIPING IS SHOWN FOR ILLUSTRATION PURPOSES ONLY. CONTRACTOR SHALL ALLOW PROVISIONS FOR FUTURE AS BEST POSSIBLE DURING CONSTRUCTION TO HELP FACILITATE CONSTRUCTION IN FUTURE.

SECTION A
 HORIZ 1" = 20'
 VERT 1" = 10'
 05-CY-105

DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD	GTM	JAB	VERIFY SCALE
DR	PALONG								BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	DJ PETERSON								0
APVD	CW MASSIE								IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

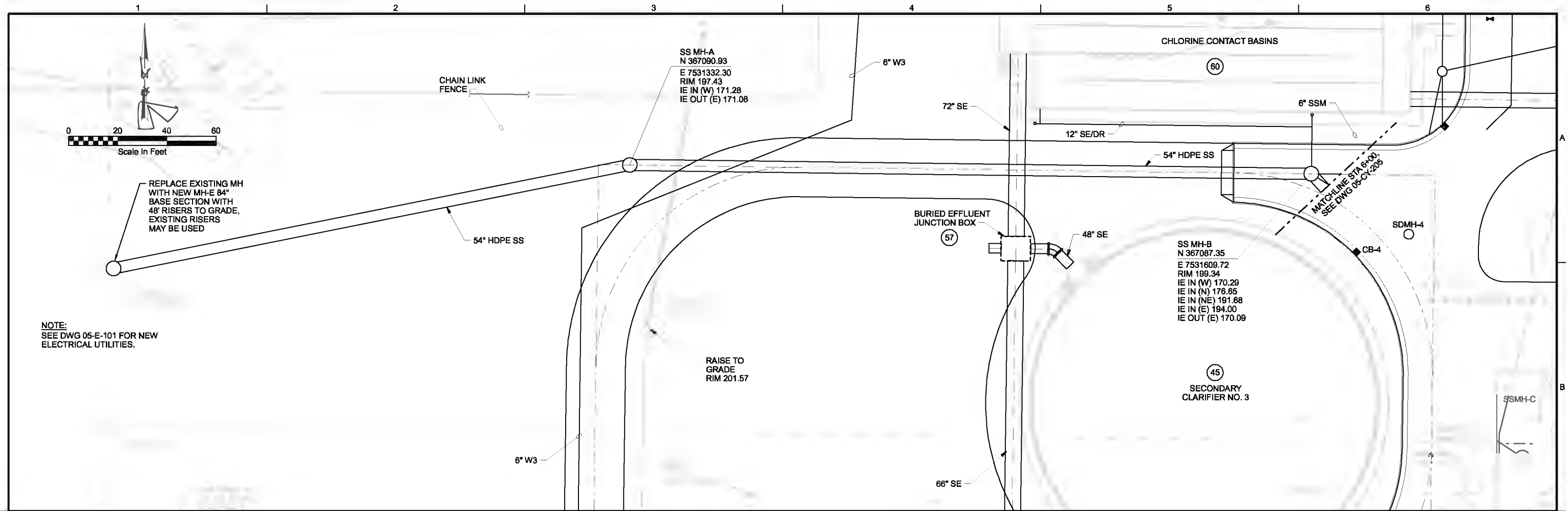


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
YARD PIPING SECTIONS

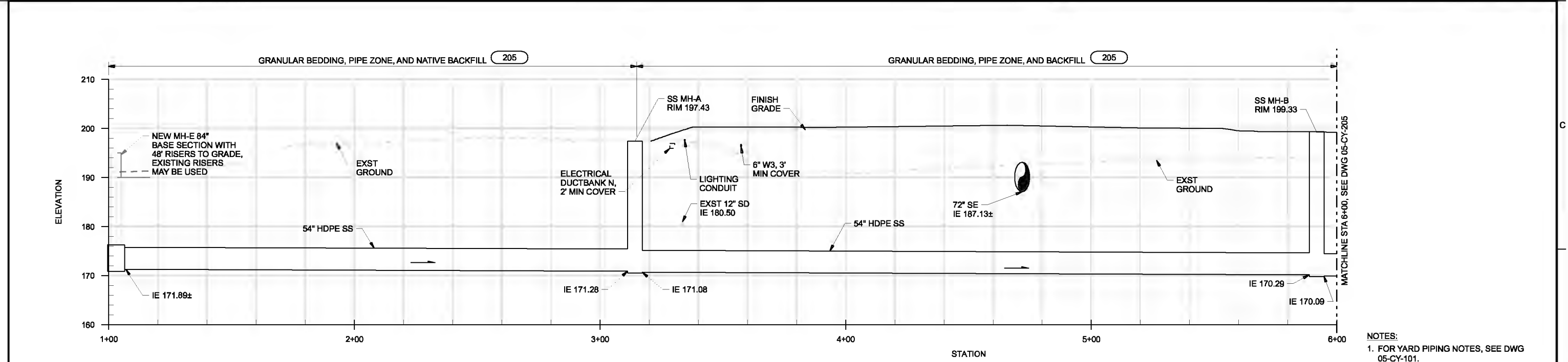
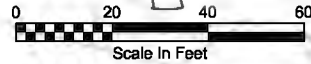
SHEET	175
DWG	05-CY-203
DATE	MAY 19 2006
PROJ	326918

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NOTE:
SEE DWG 05-E-101 FOR NEW
ELECTRICAL UTILITIES.

REPLACE EXISTING MH
WITH NEW MH-E 84"
BASE SECTION WITH
48" RISERS TO GRADE,
EXISTING RISERS
MAY BE USED



54" SS RIVERFRONT INTERCEPTOR PROFILE

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

NOTES:
1. FOR YARD PIPING NOTES, SEE DWG
05-CY-101.

THE CONTRACTOR SHALL
VERIFY ALL DIMENSIONS AND
LOCATIONS OF ALL UTILITIES
BEFORE CONSTRUCTION.
IF ANY DISCREPANCIES ARE
FOUND, THE CONTRACTOR
SHALL NOTIFY THE ENGINEER
IMMEDIATELY.

DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD
DR	PALONG					
CHK	DJ PETERSON					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD
DRAWING NOTE ON SHEET 1)
AS-BUILT

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

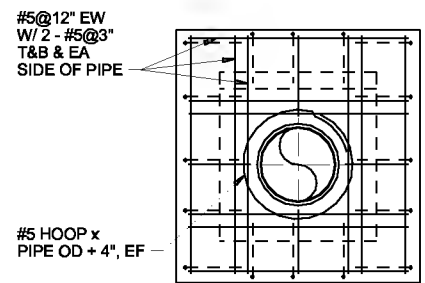
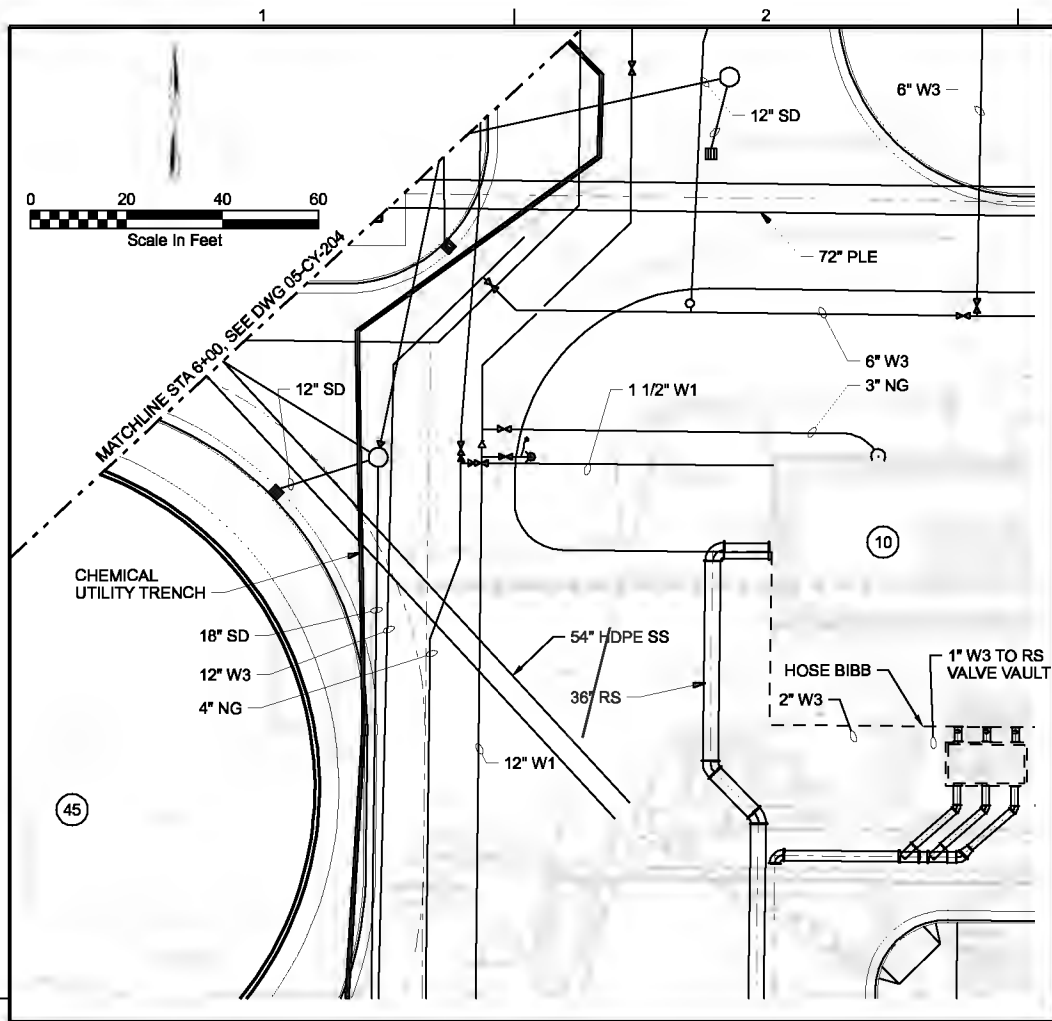


WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

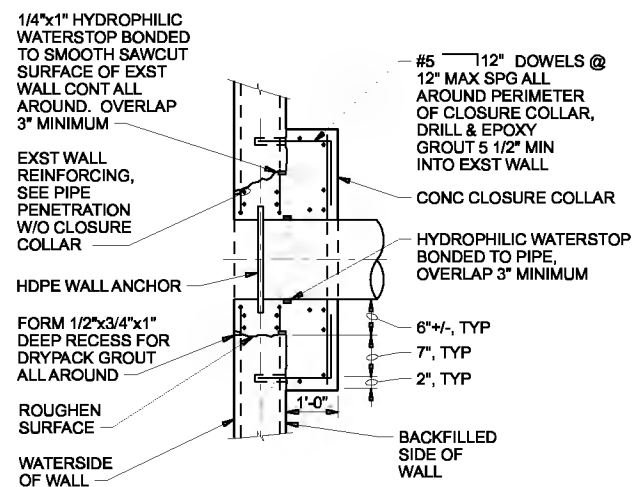
SITE DEVELOPMENT	SHEET	176
54" SS RIVERFRONT INTERCEPTOR PLAN AND PROFILE	DWG	05-CY-204
	DATE	MAY 19 2006
	PROJ	326918

FILENAME: 05ncy204d_326918.dgn PLOT DATE: 2/26/2010 PLOT TIME: 2:19:49 PM

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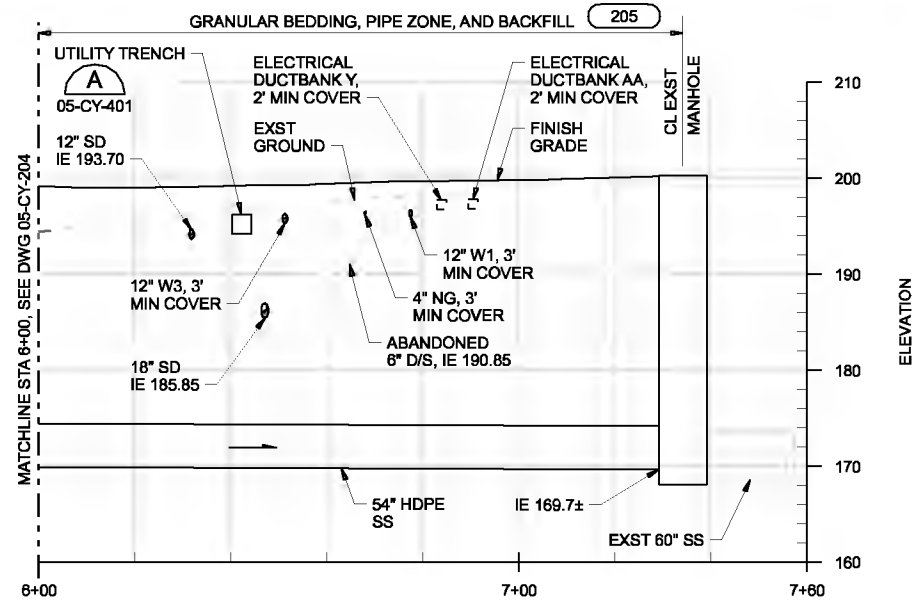
ELEVATION



SECTION

WITH CLOSURE COLLAR

- NOTES:**
- SAW-CUT 1-INCH DEEP x PIPE OD + 12" SQUARE SCORE LINE ON EACH FACE OF WALL. (VERIFY DEPTH OF CUT TO CLEAR REINFORCING.) (INCREASE HEIGHT AS NOTED AT TOP ON WATERSIDE FACE FOR POURING.)
 - CHIP TO REMOVE THE CONCRETE WITHIN THE SCORE LINE, WHILE PRESERVING THE EXISTING WALL REINFORCING.
 - GRIND 1 1/2" WIDE x CONT SMOOTH SURFACE ALL AROUND THE OPENING AT CENTER OF WALL. CLEAN SURFACES AND BOND CONTINUOUS HYDROPHILIC WATERSTOP IN PLACE.
 - INSTALL HDPE WALL ANCHOR.
 - BOND CONTINUOUS HYDROPHILIC WATERSTOP TO PIPE. INSTALL ADDITIONAL REINFORCING EACH FACE, EACH SIDE, ABOVE AND BELOW PIPE.
 - SOAK CONCRETE SURFACES AND WITHIN 15-MINUTES CAST CONCRETE CLOSURE. (CONCRETE CLOSURE MUST BE CAST BEFORE HYDROPHILIC WATERSTOP EXPANDS.) FORM GROOVE ON ALL SIDES OF OPENING EXCEPT AT TOP ON THE POUR SIDE.
 - CLEAN SURFACES OF FORMED GROOVE WITH POWER WIRE BRUSH OR SANDBLASTING AND DRY-PACK WITH NON-SHRINK GROUT AFTER NEW CONCRETE MIN 28-DAYS OLD.
 - SEE SPECIFICATION SECTIONS 01040 AND 01050 FOR CONSTRUCTION SEQUENCING CONSTRAINTS.
 - SEE DRAWING 05-CY-103 FOR YARD PIPING NOTES.



54" SS RIVERFRONT INTERCEPTOR PROFILE

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

PIPE PENETRATION - EXISTING WALL

NTS 05-CY-204

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DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD
DR	PALONG					
CHK	DJ PETERSON					
APVD	CW MASSIE					

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

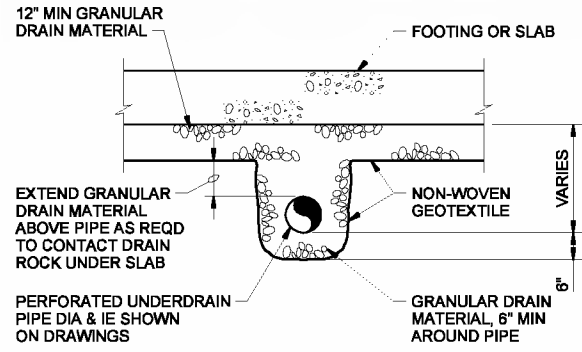


WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
54" SS RIVERFRONT INTERCEPTOR PLAN AND PROFILE AND DETAIL

SHEET	177
DWG	05-CY-205
DATE	MAY 19 2006
PROJ	326918

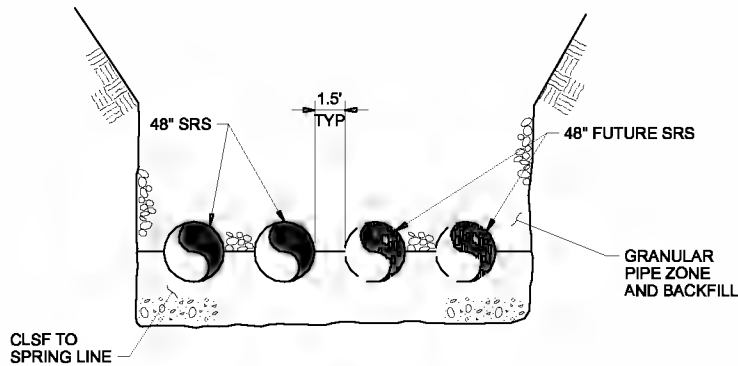
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TYPICAL UNDERDRAIN TRENCH

1

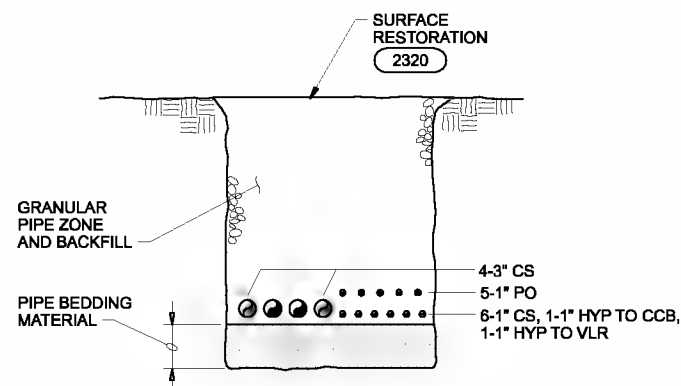
NTS
30-S-120
45-S-201
60-S-201



DETAIL

2

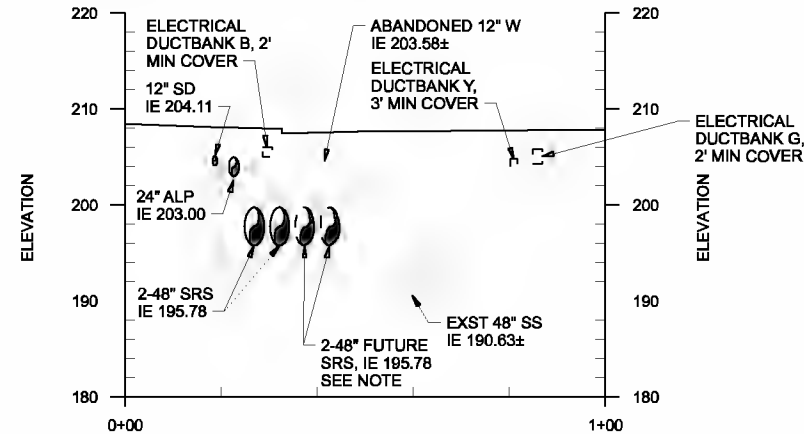
NTS 05-CY-103



UTILITY TRENCH

A

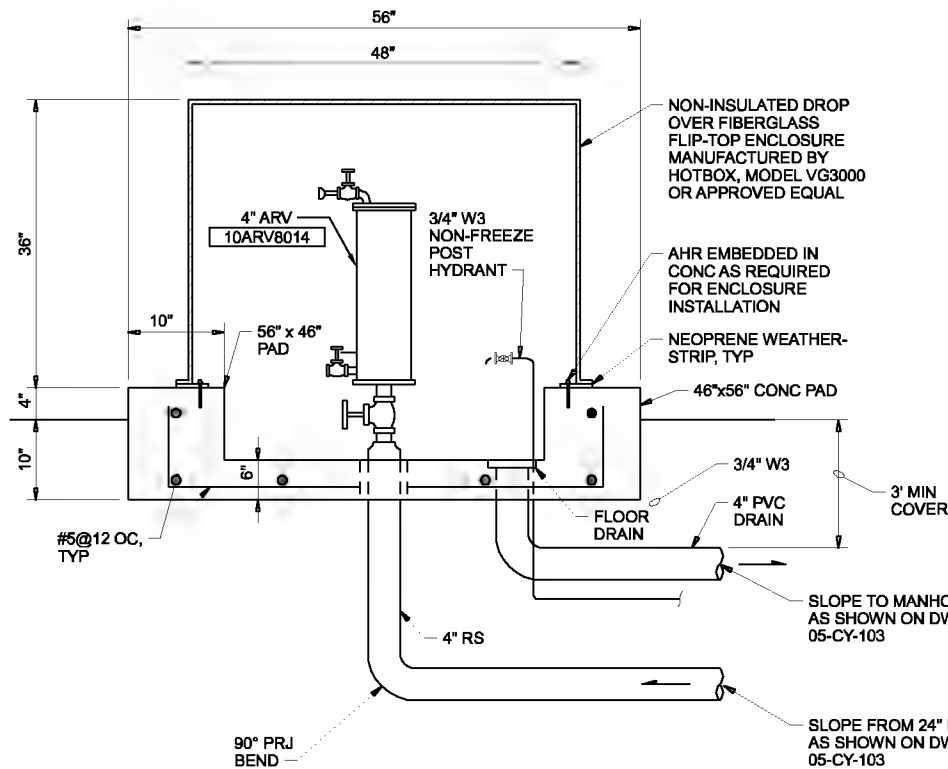
NTS 05-CY-101



NOTE:
FUTURE 48" SRS PIPING IS SHOWN FOR ILLUSTRATION PURPOSES ONLY. CONTRACTOR SHALL ALLOW PROVISIONS FOR FUTURE AS BEST POSSIBLE DURING CONSTRUCTION TO HELP FACILITATE CONSTRUCTION IN FUTURE.

SECTION B

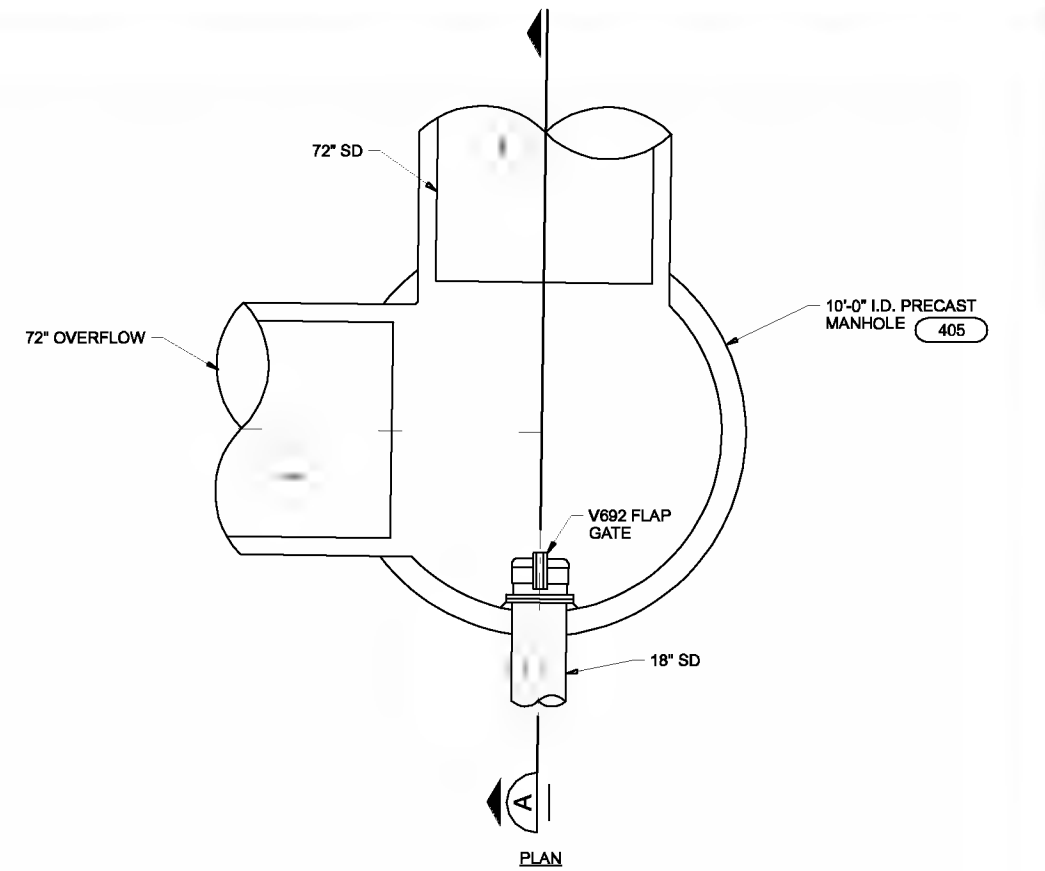
VERT 1" = 20'
HORIZ 1" = 10' 05-CY-103



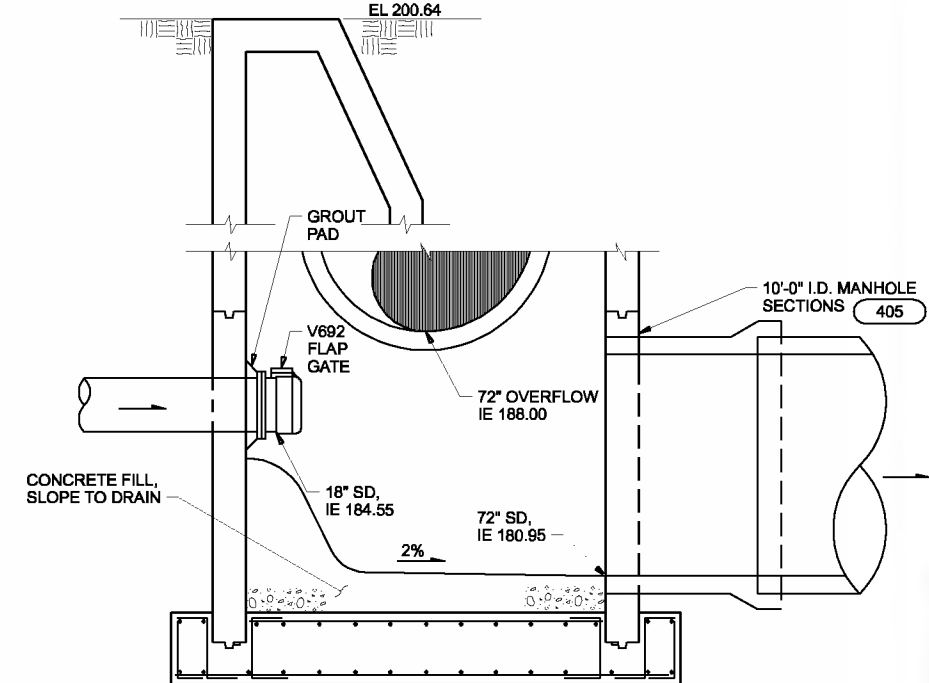
ARV ENCLOSURE

3

NTS 05-CY-103



PLAN



SECTION A

OVERFLOW/DRAIN MANHOLE

4

3/8"=1'-0" 05-CY-101 05-CY-202

DSGN	JT ASHLEY																			
DR	PALONG																			
CHK	DJ PETERSON	01/20/10																		
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD														

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

VERIFY SCALE
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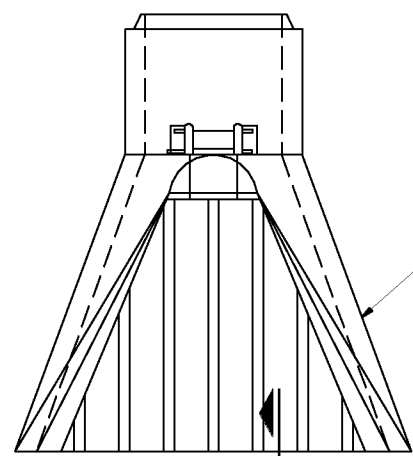


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

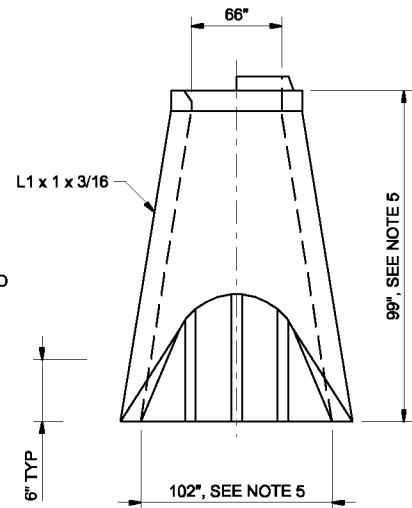
SITE DEVELOPMENT
YARD PIPING
DETAILS

SHEET	178
DWG	05-CY-401
DATE	MAY 19 2006
PROJ	326918

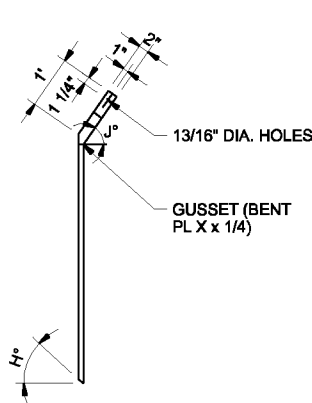
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PLAN

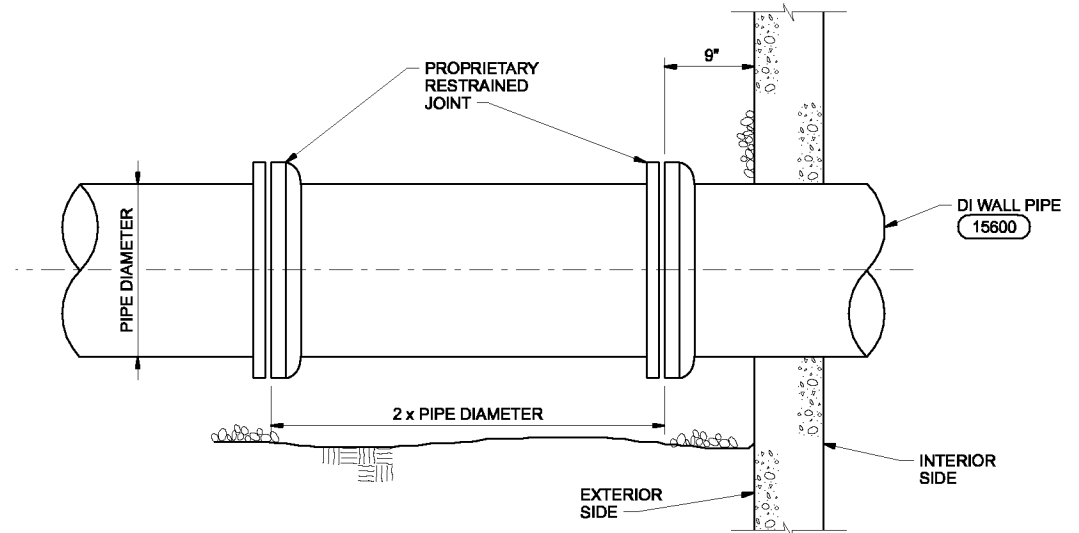


RACK DETAIL



NOTES:

- PADLOCKS FOR LOCKING BAR WILL BE FURNISHED AND INSTALLED BY THE CITY OF ALBANY.
- THE TRASH GUARDS ARE NOT DESIGNED TO CARRY WHEEL LOADINGS AND AS SUCH ARE NOT TO BE USED AS SAFETY GRATES.
- GALVANIZE ENTIRE ASSEMBLY.
- PROVIDE SST HARDWARE.
- ADJUST DIMENSIONS ACCORDINGLY IF PIPE STANDARD FLARED END SECTION DIFFERS FROM ONE SHOWN.

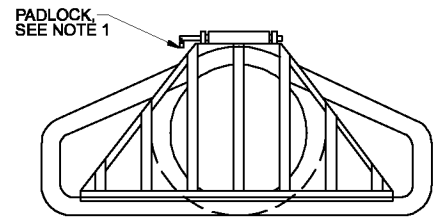


PROPRIETARY JOINT DETAIL

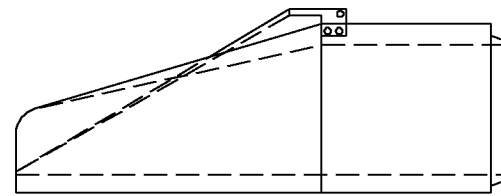
NTS

2

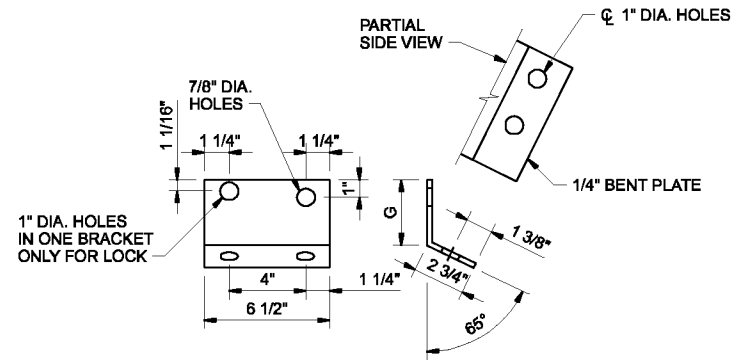
05-CY-203
10-M-131
10-M-141
61-M-201



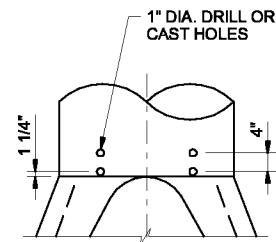
ELEVATION



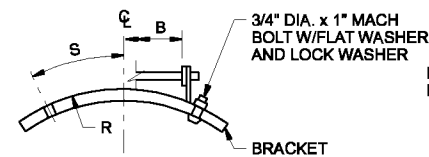
SIDE VIEW



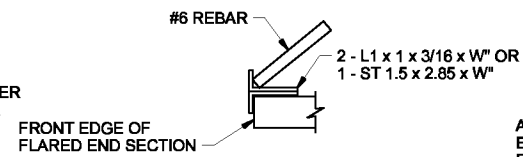
BRACKET (2 - REQ'D)



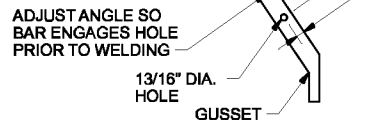
HOLES FOR BRACKETS



BRACKET & HINGE DETAIL



SECTION A
NTS



PARTIAL SIDE VIEW

TRASH RACK DETAIL

NTS

1

05-CY-202

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 2006 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 60132PE.

DSGN	JT ASHLEY						
DR	PALONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
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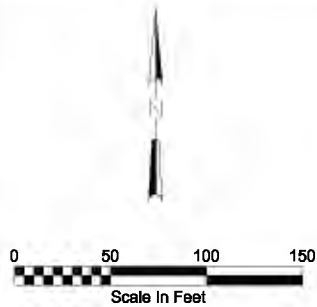


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
YARD PIPING
DETAILS

SHEET	179
DWG	05-CY-402
DATE	MAY 19 2006
PROJ	326918

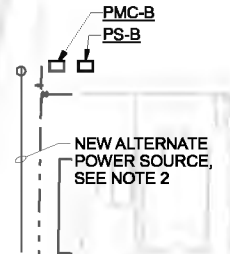
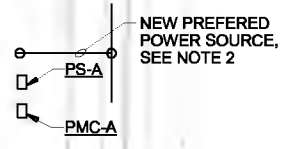
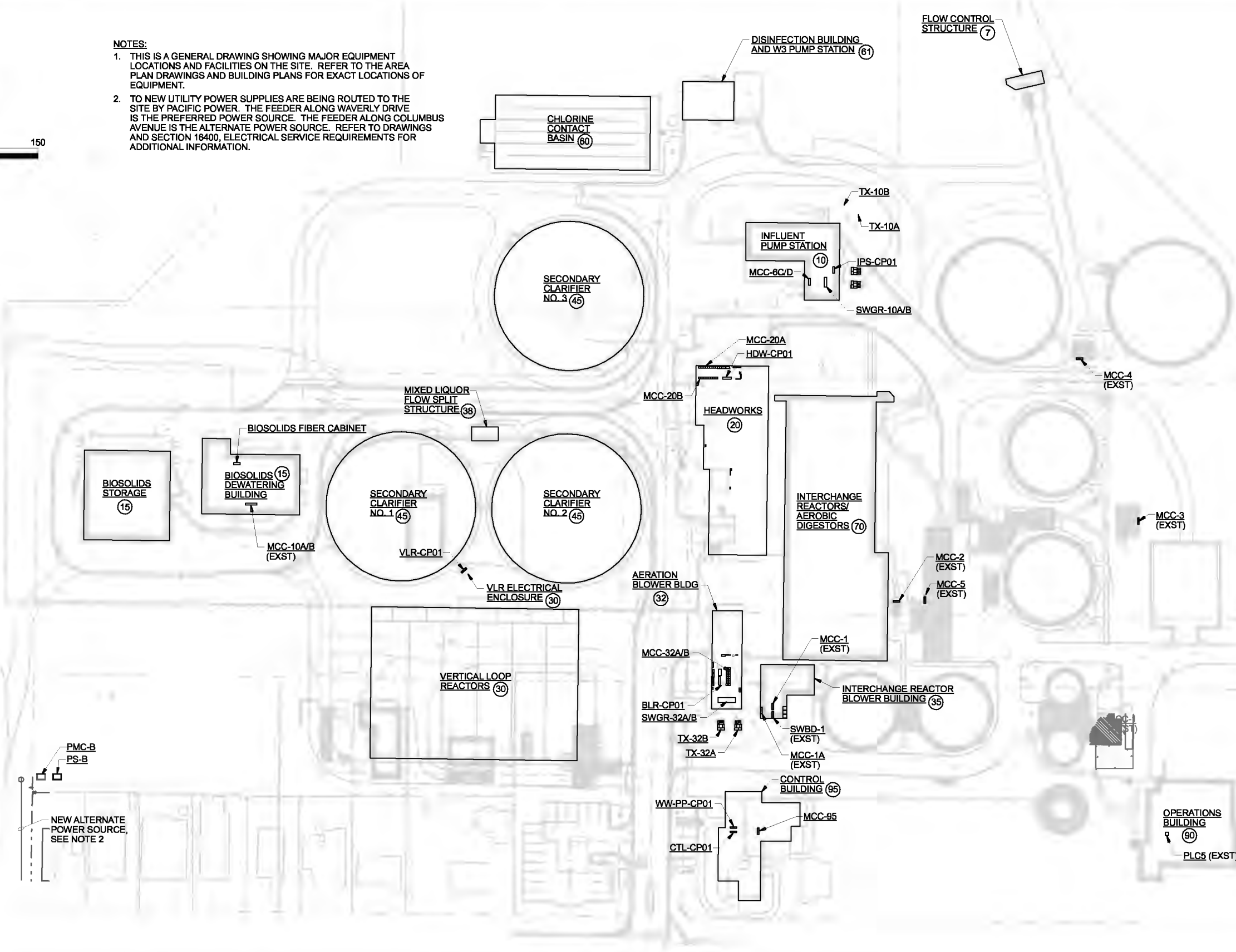
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NOTES:

1. THIS IS A GENERAL DRAWING SHOWING MAJOR EQUIPMENT LOCATIONS AND FACILITIES ON THE SITE. REFER TO THE AREA PLAN DRAWINGS AND BUILDING PLANS FOR EXACT LOCATIONS OF EQUIPMENT.
2. TO NEW UTILITY POWER SUPPLIES ARE BEING ROUTED TO THE SITE BY PACIFIC POWER. THE FEEDER ALONG WAVERLY DRIVE IS THE PREFERRED POWER SOURCE. THE FEEDER ALONG COLUMBUS AVENUE IS THE ALTERNATE POWER SOURCE. REFER TO DRAWINGS AND SECTION 16400, ELECTRICAL SERVICE REQUIREMENTS FOR ADDITIONAL INFORMATION.

- FACILITIES**
- (7) NEW FLOW CONTROL STRUCTURE
 - (10) EXISTING INFLUENT PUMP STATION MODIFICATIONS
 - (15) EXISTING BIOSOLIDS DEWATERING AND STORAGE BUILDINGS MODIFICATIONS
 - (20) NEW HEADWORKS
 - (30) NEW VERTICAL LOOP REACTORS
 - (32) NEW AERATION BLOWER BUILDING
 - (35) EXISTING INTERCHANGE REACTOR BLOWER BUILDING MODIFICATIONS
 - (38) NEW MIXED LIQUOR FLOW SPLIT STRUCTURE
 - (40) EXISTING SECONDARY CLARIFIERS
 - (42) EXISTING RAS/WAS PUMP STATION
 - (45) NEW SECONDARY CLARIFIERS
 - (57) NEW EFFLUENT JUNCTION BOXES (BURIED)
 - (60) NEW CHLORINE CONTACT BASINS
 - (61) NEW DISINFECTION BUILDING AND W3 PUMP STATION
 - (70) EXISTING AERATION BASINS CONGRATED TO INTERCHANGE REACTORS /AEROBIC DIGESTERS
 - (90) EXISTING OPERATION BUILDING
 - (95) NEW CONTROL BUILDING



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY HANJUL MADHURI, STATE OF OREGON, P.E. NO. 53789PE

DSGN	KL MAESTRI									
DR	GJ LOVE									
CHK	JB MAURAS	01/20/10								
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.

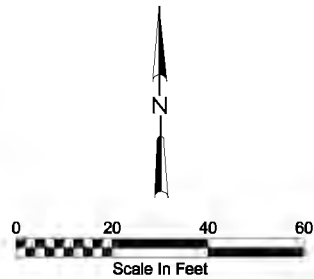
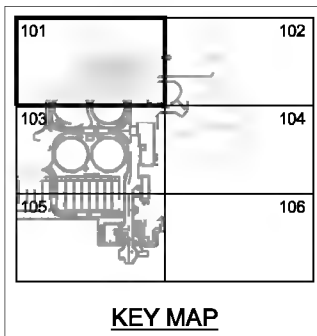
CH2MHILL **carollo engineers**

CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
ELECTRICAL
OVERALL SITE PLAN

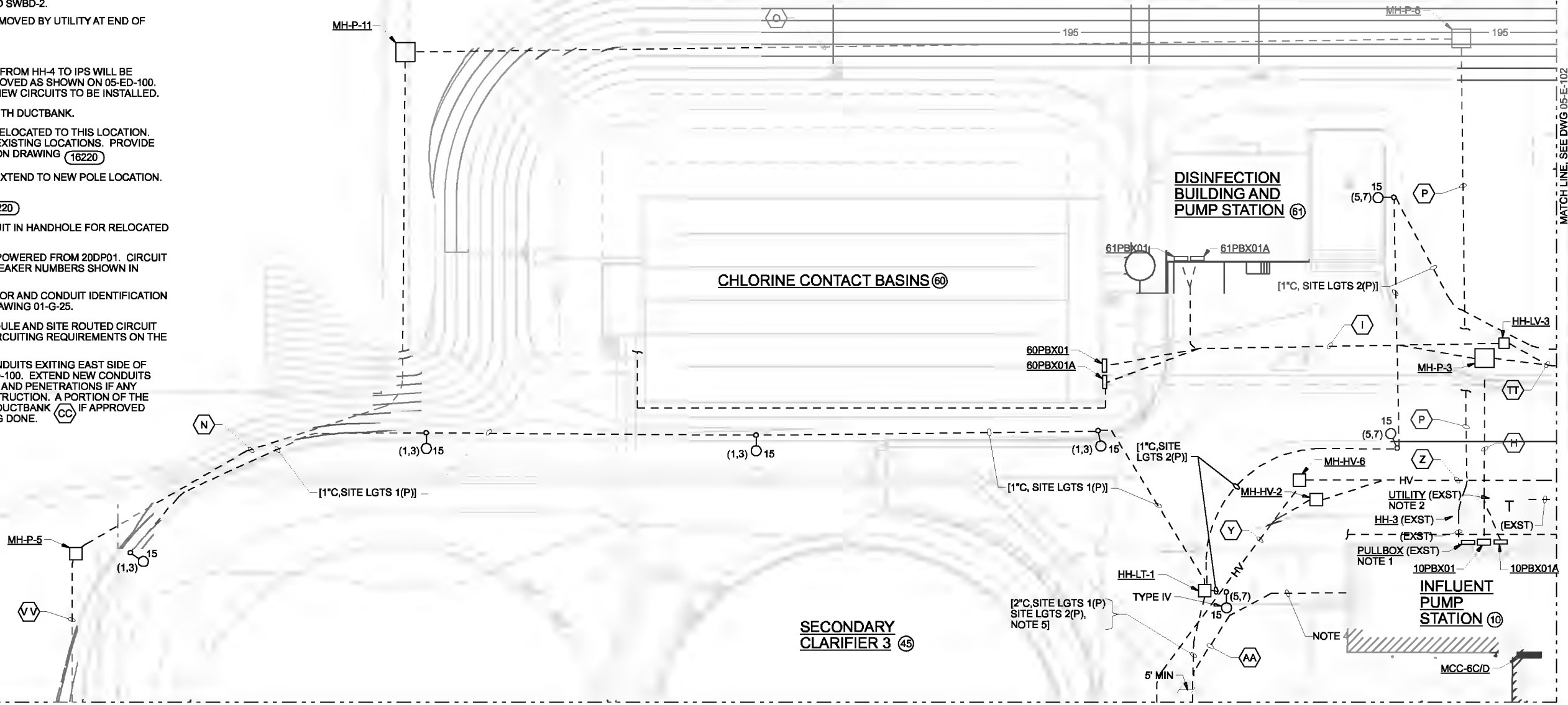
SHEET	180
DWG	05-E-100
DATE	MAY 19 2006
PROJ	326918

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NOTES:

1. EXISTING WALL MOUNT PULLBOX TO BE REUSED FOR REROUTED BIOSOLIDS FEEDER. REUSE EXST CONDUITS IN INFLUENT PUMP STATION FROM PULLBOX TO SWBD-2.
2. UTILITY TRANSFORMER TO BE REMOVED BY UTILITY AT END OF CONSTRUCTION.
3. NOT USED.
4. 2-2" FROM HH-5 AND 1-1" AND 1-2" FROM HH-4 TO IPS WILL BE EMPTY AFTER CIRCUITS ARE REMOVED AS SHOWN ON 05-ED-100. SEE DUCTBANK SCHEDULE FOR NEW CIRCUITS TO BE INSTALLED.
5. ROUTE SITE LIGHTING CIRCUIT WITH DUCTBANK.
6. EXISTING POLE AND LUMINAIRE RELOCATED TO THIS LOCATION. SEE DEMOLITION DRAWING FOR EXISTING LOCATIONS. PROVIDE POSE BASE SIMILIAR AS SHOWN ON DRAWING (16220)
7. INTERCEPT EXISTING CIRCUIT & EXTEND TO NEW POLE LOCATION. CIRCUIT TO MATCH EXISTING.
8. FOR TYPE 15 LUMINAIRE SEE (16220)
9. SPLICE EXISTING LIGHTING CIRCUIT IN HANDHOLE FOR RELOCATED LIGHT.
10. SITE LIGHTS CIRCUITS 1 & 2 ARE POWERED FROM 20DP01. CIRCUIT 3 IS POWERED FROM 95DP02. BREAKER NUMBERS SHOWN IN PARENTHISES.
11. FOR GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION AND ELECTRICAL NOTES, SEE DRAWING 01-G-25.
12. REFER TO THE DUCTBANK SCHEDULE AND SITE ROUTED CIRCUIT SCHEDULE FOR CONDUIT AND CIRCUITING REQUIREMENTS ON THE SITE.
13. CONTRACTOR IS TO REMOVE CONDUITS EXITING EAST SIDE OF PB #7 (EXST) AS SHOWN ON 05-ED-100. EXTEND NEW CONDUITS TO PB #7. REPAIR PULLBOX WALL AND PENETRATIONS IF ANY DAMAGE OCCURS DURING CONSTRUCTION. A PORTION OF THE CONDUITS MAY BE REUSED FOR DUCTBANK (CC) IF APPROVED ENGINEER PRIOR TO WORK BEING DONE.



THE CONTRACT DOCUMENT DRAWINGS AND PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK AND SIGNATURES OF THE ENGINEER, SHALL BE THE STATE OF OREGON, P.E. NO. 24788

DSGN	KL MEASTRI	NO.	DATE	REVISION	BY	APVD
DR	GJ LOVE					
CHK	JB MAURAS					
APVD	CW MASSIE					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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

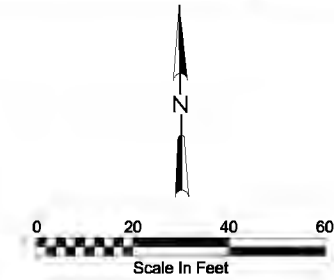
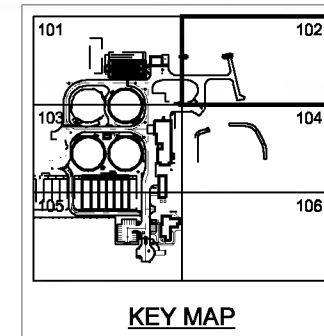


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
SITE PLAN - AREA 101

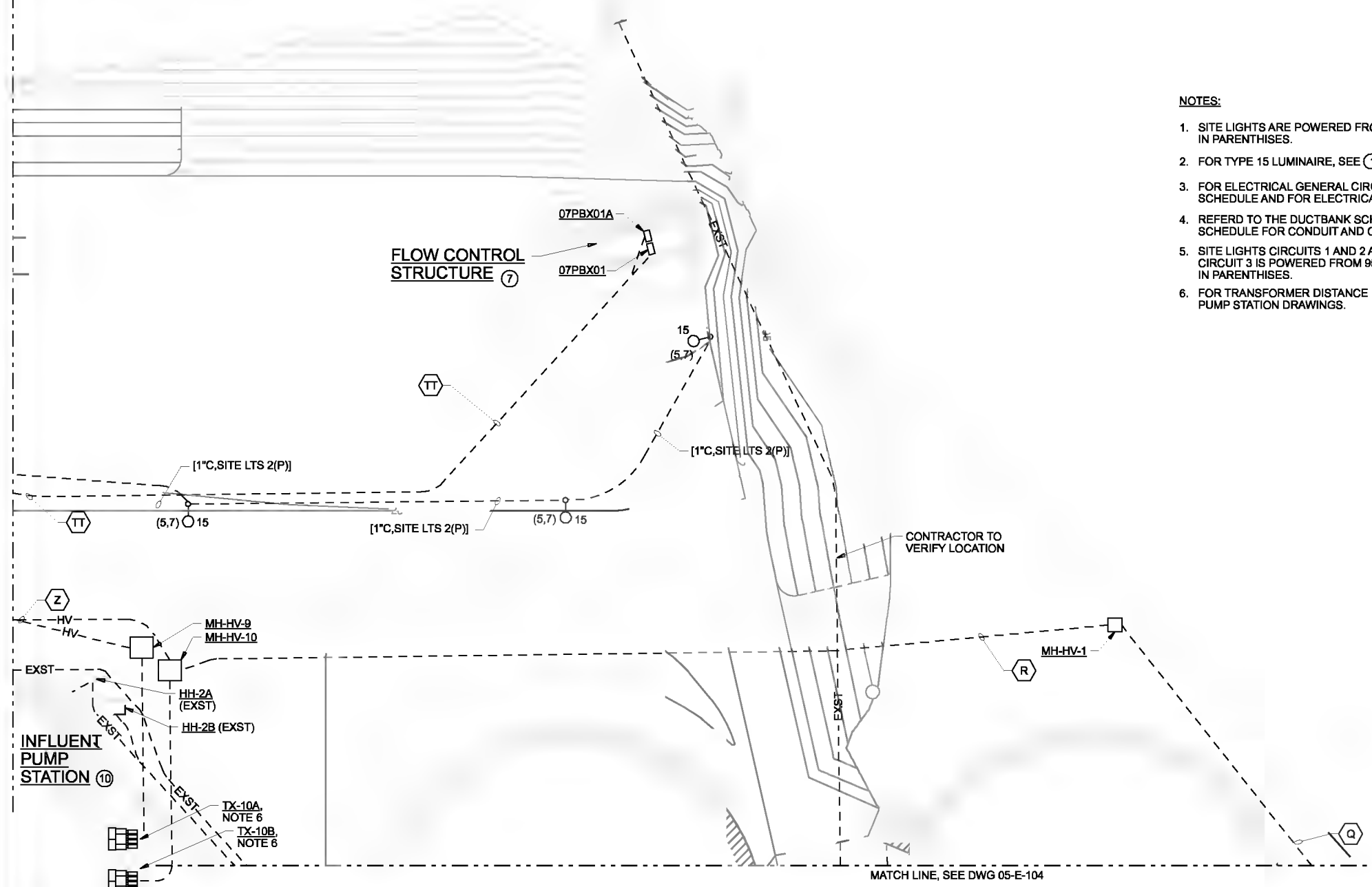
SHEET	181
DWG	05-E-101
DATE	MAY 19 2006
PROJ	326918

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NOTES:

1. SITE LIGHTS ARE POWERED FROM 20DP01. BREAKER NUMBER SHOWN IN PARENTHESES.
2. FOR TYPE 15 LUMINAIRE, SEE (16220)
3. FOR ELECTRICAL GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION SCHEDULE AND FOR ELECTRICAL NOTES, SEE DRAWING 01-G-25.
4. REFER TO THE DUCTBANK SCHEDULE AND SITE ROUTED CIRCUIT SCHEDULE FOR CONDUIT AND CIRCUITING REQUIREMENTS ON THE SITE.
5. SITE LIGHTS CIRCUITS 1 AND 2 ARE POWERED FROM 20DP01. CIRCUIT 3 IS POWERED FROM 95DP02. BREAKER NUMBERS SHOWN IN PARENTHESES.
6. FOR TRANSFORMER DISTANCE FROM BUILDING, SEE THE INFLUENT PUMP STATION DRAWINGS.



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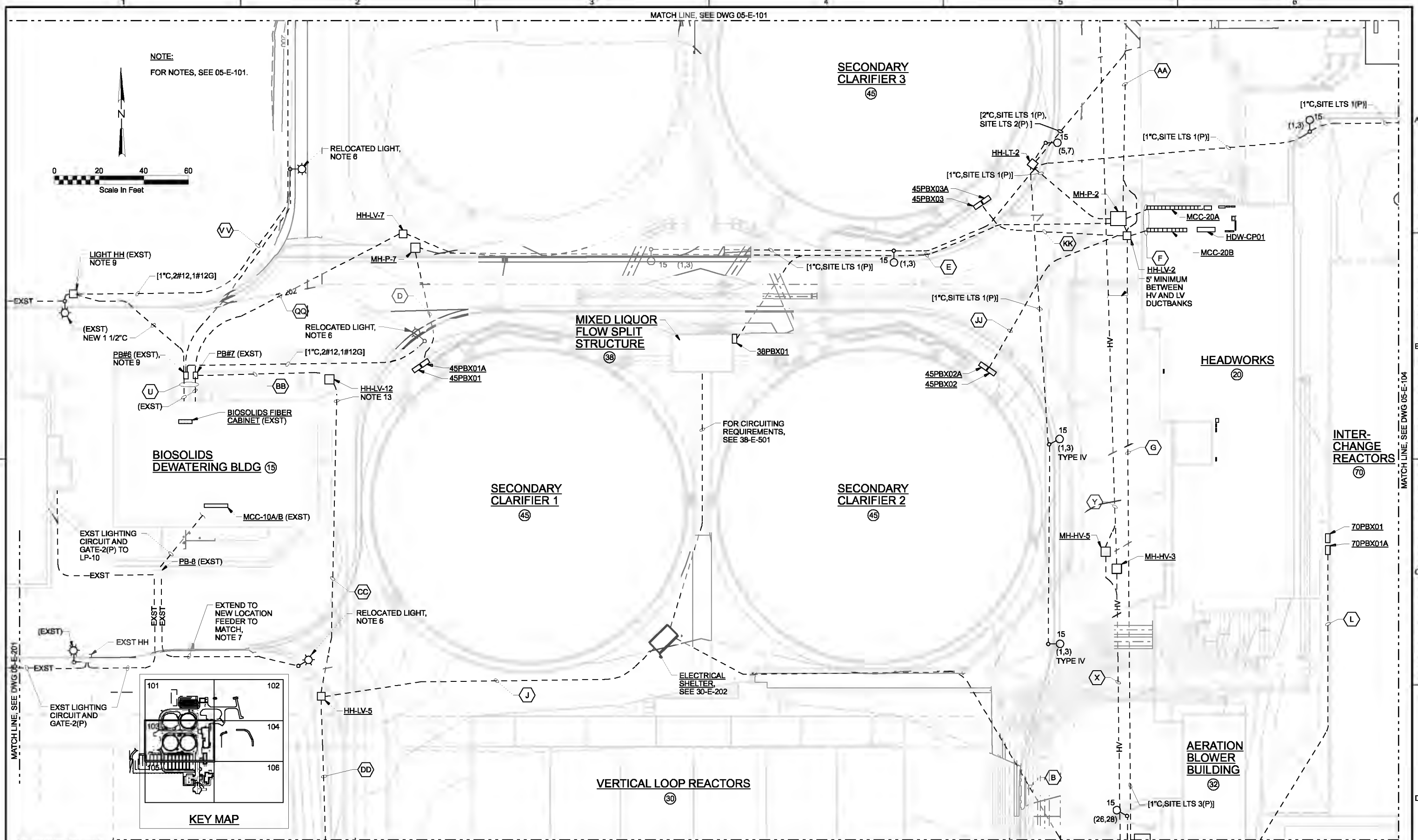
DSGN	KL MAESTRI	NO.	DATE	REVISION	BY	APVD	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	GJ LOVE						
CHK	JB MAURAS						
APVD	CW MASSIE						



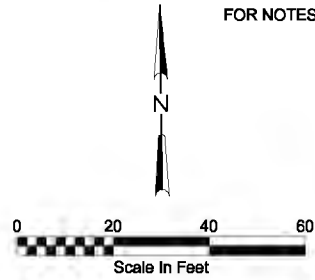
CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
 ELECTRICAL
 SITE PLAN-AREA 102

SHEET	182
DWG	05-E-102
DATE	MAY 19 2006
PROJ	326918



NOTE:
FOR NOTES, SEE 05-E-101.



MATCH LINE, SEE DWG 05-E-101

MATCH LINE, SEE DWG 05-E-104

MATCH LINE, SEE DWG 05-E-201

MATCH LINE, SEE DWG 05-E-105

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE REPRODUCED BY THE STATE OF OREGON, P.E. BOB SATTBARE.

DSGN	KL MAESTRI				
DR	GJ LOVE				
CHK	JB MAURAS	01/20/10			
APVD	CW MASSIE	NO.	DATE	REVISION	BY

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

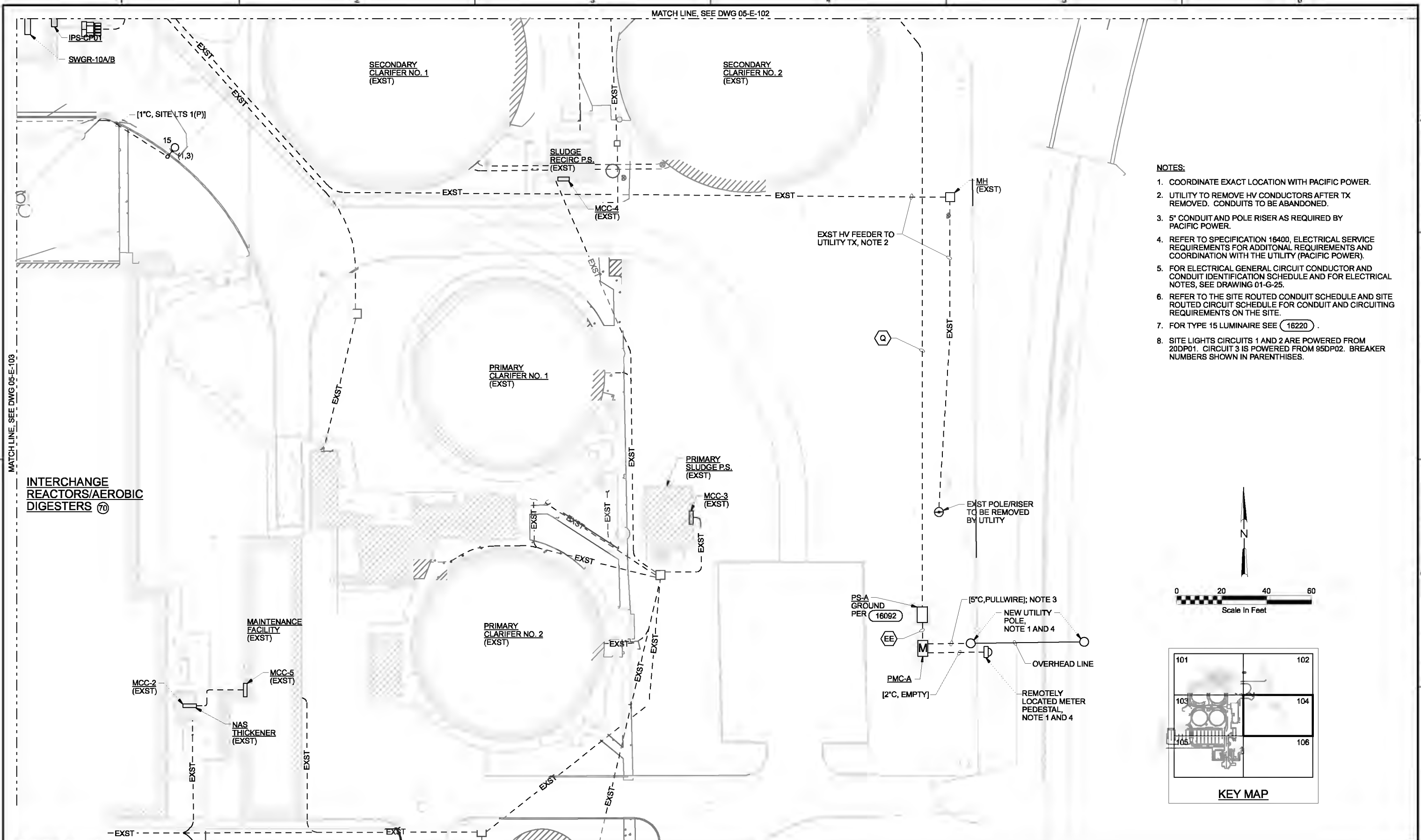


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

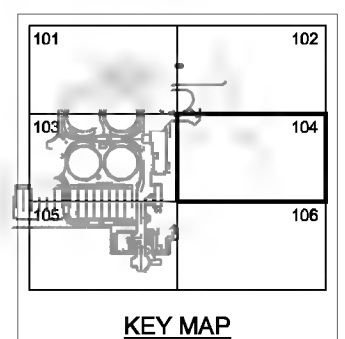
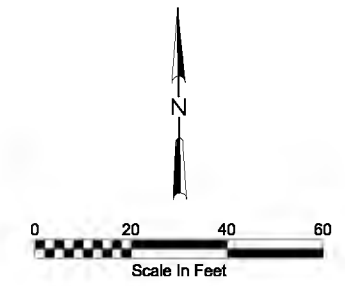
SITE DEVELOPMENT
SITE PLAN - AREA 103

SHEET	183
DWG	05-E-103
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
1. COORDINATE EXACT LOCATION WITH PACIFIC POWER.
 2. UTILITY TO REMOVE HV CONDUCTORS AFTER TX REMOVED. CONDUITS TO BE ABANDONED.
 3. 5" CONDUIT AND POLE RISER AS REQUIRED BY PACIFIC POWER.
 4. REFER TO SPECIFICATION 16400, ELECTRICAL SERVICE REQUIREMENTS FOR ADDITIONAL REQUIREMENTS AND COORDINATION WITH THE UTILITY (PACIFIC POWER).
 5. FOR ELECTRICAL GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION SCHEDULE AND FOR ELECTRICAL NOTES, SEE DRAWING 01-G-25.
 6. REFER TO THE SITE ROUTED CONDUIT SCHEDULE AND SITE ROUTED CIRCUIT SCHEDULE FOR CONDUIT AND CIRCUITING REQUIREMENTS ON THE SITE.
 7. FOR TYPE 15 LUMINAIRE SEE (16220).
 8. SITE LIGHTS CIRCUITS 1 AND 2 ARE POWERED FROM 20DP01. CIRCUIT 3 IS POWERED FROM 95DP02. BREAKER NUMBERS SHOWN IN PARENTHESES.



MATCH LINE, SEE DWG 05-E-103

MATCH LINE, SEE DWG 05-E-102

MATCH LINE, SEE DWG 05-E-106

**INTERCHANGE
REACTORS/AEROBIC
DIGESTERS (70)**

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED OFF BY [NAME] IN STATE OF OREGON, P.E. NO. [NUMBER].

DSGN	KL MAESTRI						
DR	GJ LOVE						
CHK	JB MAURIS	01/20/10					
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.

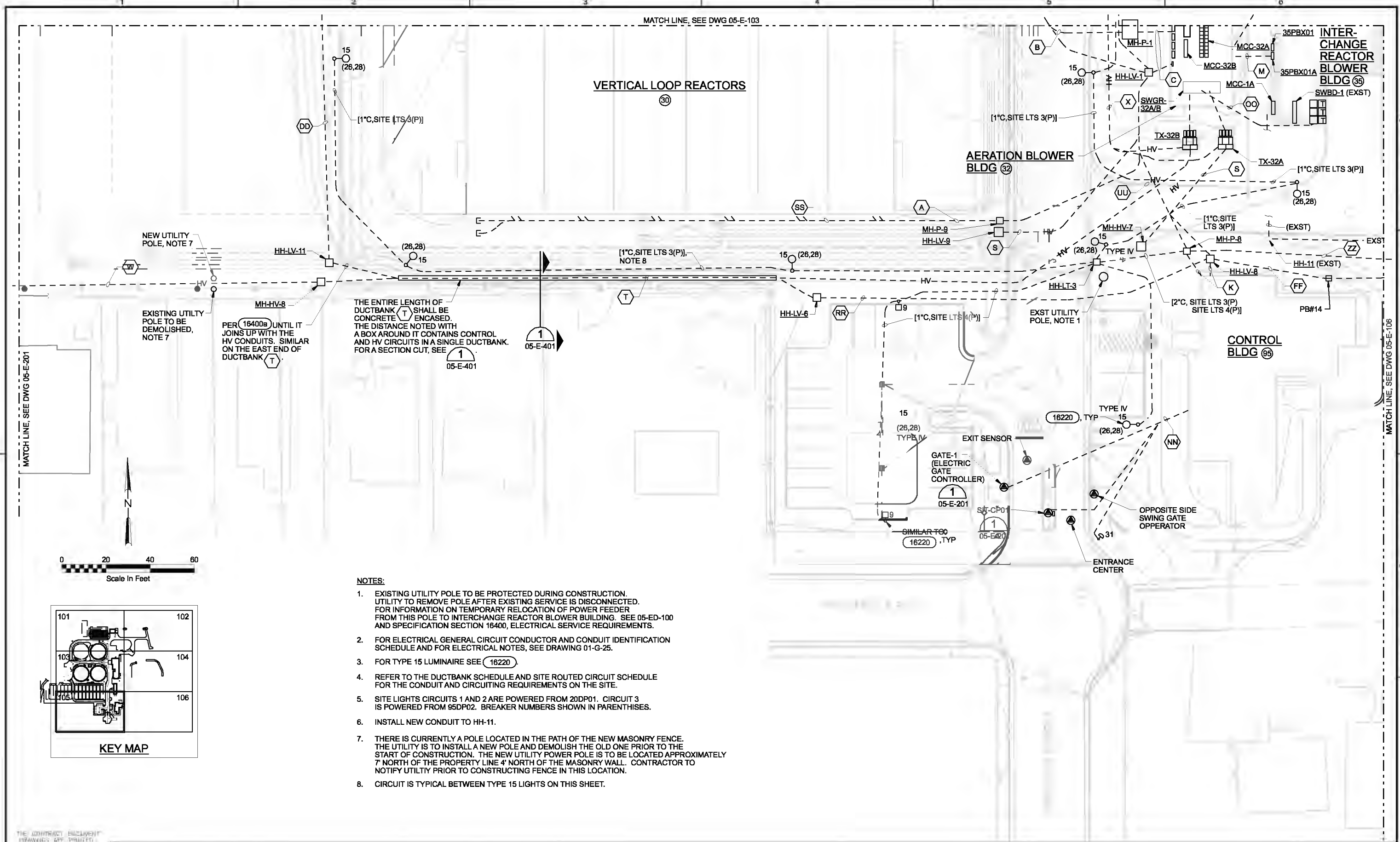


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

SITE DEVELOPMENT
SITE PLAN - AREA 104

SHEET	184
DWG	05-E-104
DATE	MAY 19 2006
PROJ	326918

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MATCH LINE, SEE DWG 05-E-201

MATCH LINE, SEE DWG 05-E-106

MATCH LINE, SEE DWG 05-E-103

VERTICAL LOOP REACTORS

AERATION BLOWER BLDG (32)

INTER-CHANGE REACTOR BLOWER BLDG (35)

CONTROL BLDG (35)

NEW UTILITY POLE, NOTE 7

EXISTING UTILITY POLE TO BE DEMOLISHED, NOTE 7

PER 16400a UNTIL IT JOINS UP WITH THE HV CONDUITS. SIMILAR ON THE EAST END OF DUCTBANK T

THE ENTIRE LENGTH OF DUCTBANK T SHALL BE CONCRETE ENCASED. THE DISTANCE NOTED WITH A BOX AROUND IT CONTAINS CONTROL AND HV CIRCUITS IN A SINGLE DUCTBANK. FOR A SECTION CUT, SEE 05-E-401

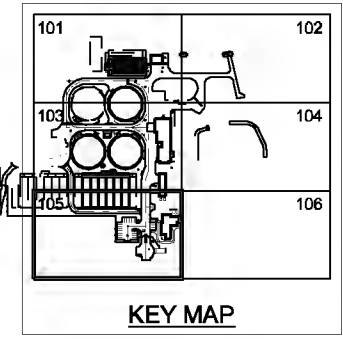
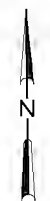
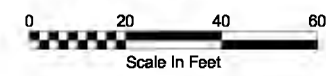
05-E-401

[1"C, SITE LTS 3(P)], NOTE 8

[1"C, SITE LTS 3(P)]

[1"C, SITE LTS 3(P)]

[2"C, SITE LTS 3(P) SITE LTS 4(P)]



NOTES:

- EXISTING UTILITY POLE TO BE PROTECTED DURING CONSTRUCTION. UTILITY TO REMOVE POLE AFTER EXISTING SERVICE IS DISCONNECTED. FOR INFORMATION ON TEMPORARY RELOCATION OF POWER FEEDER FROM THIS POLE TO INTERCHANGE REACTOR BLOWER BUILDING. SEE 05-ED-100 AND SPECIFICATION SECTION 16400, ELECTRICAL SERVICE REQUIREMENTS.
- FOR ELECTRICAL GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION SCHEDULE AND FOR ELECTRICAL NOTES, SEE DRAWING 01-G-25.
- FOR TYPE 15 LUMINAIRE SEE 16220
- REFER TO THE DUCTBANK SCHEDULE AND SITE ROUTED CIRCUIT SCHEDULE FOR THE CONDUIT AND CIRCUITING REQUIREMENTS ON THE SITE.
- SITE LIGHTS CIRCUITS 1 AND 2 ARE POWERED FROM 20DP01. CIRCUIT 3 IS POWERED FROM 95DP02. BREAKER NUMBERS SHOWN IN PARENTHESES.
- INSTALL NEW CONDUIT TO HH-11.
- THERE IS CURRENTLY A POLE LOCATED IN THE PATH OF THE NEW MASONRY FENCE. THE UTILITY IS TO INSTALL A NEW POLE AND DEMOLISH THE OLD ONE PRIOR TO THE START OF CONSTRUCTION. THE NEW UTILITY POWER POLE IS TO BE LOCATED APPROXIMATELY 7' NORTH OF THE PROPERTY LINE 4' NORTH OF THE MASONRY WALL. CONTRACTOR TO NOTIFY UTILITY PRIOR TO CONSTRUCTING FENCE IN THIS LOCATION.
- CIRCUIT IS TYPICAL BETWEEN TYPE 15 LIGHTS ON THIS SHEET.

THE CONTRACT DOCUMENT DRAWINGS AND PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, DESIGN, AND CHARACTER OF THE WORK AND SIGNATURES BY WHICH MADE IN STATE OF OREGON, E.E. NO. 200808

DSGN	KL MAESTRI	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	NO.	DATE	REVISION	BY	APVD	VERIFY SCALE
DR	GJ LOVE							
CHK	JB MAURIS							
APVD	CW MASSIE							

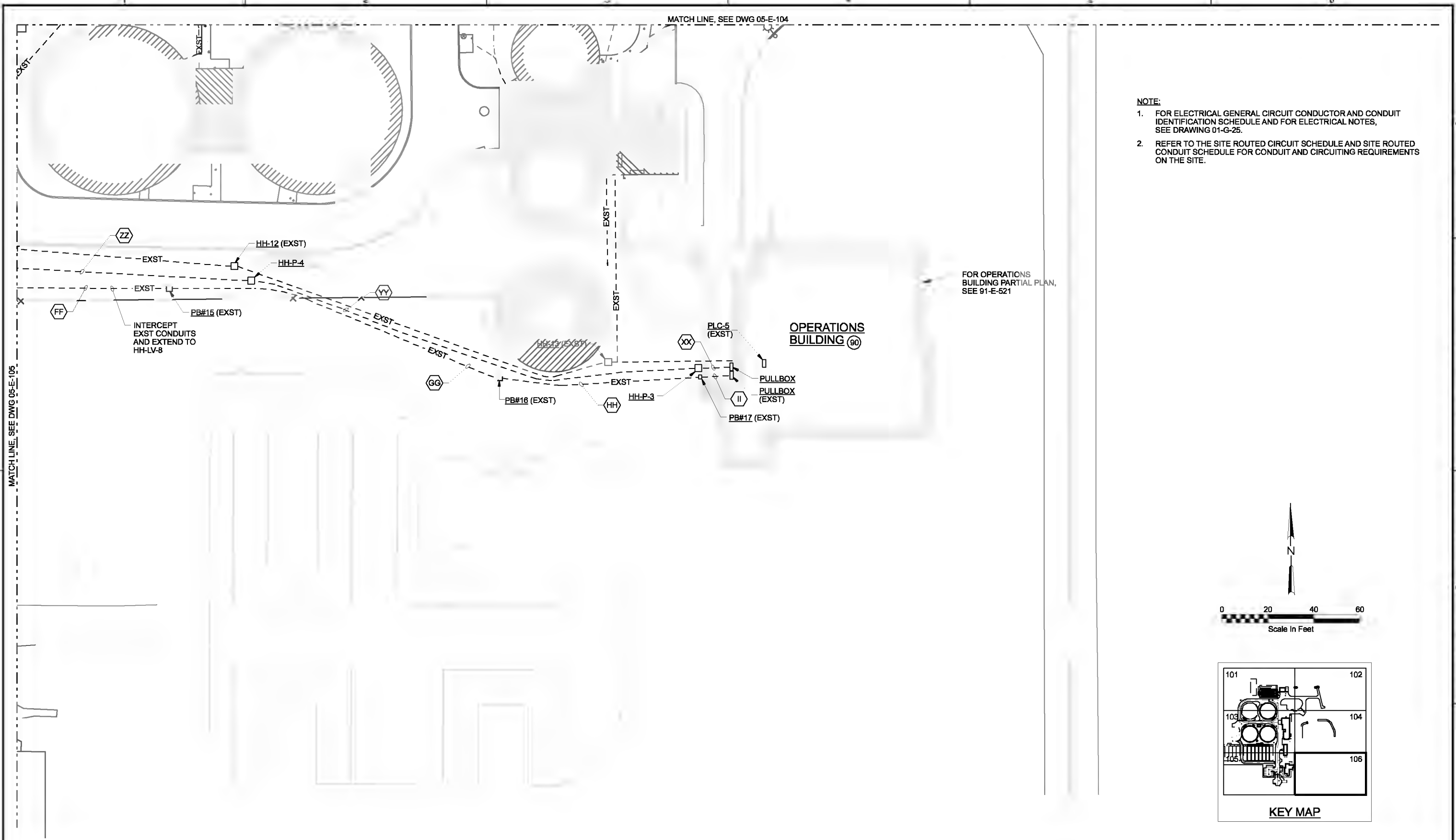


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
SITE PLAN - AREA 105

SHEET	185
DWG	05-E-105
DATE	MAY 19 2006
PROJ	326918

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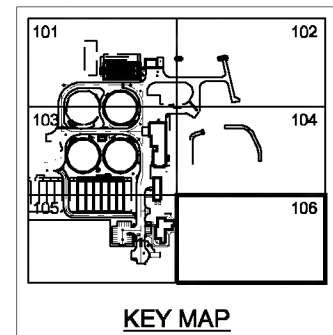
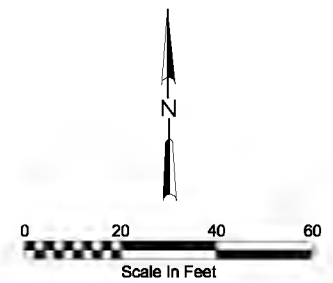


NOTE:

1. FOR ELECTRICAL GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION SCHEDULE AND FOR ELECTRICAL NOTES, SEE DRAWING 01-G-25.
2. REFER TO THE SITE ROUTED CIRCUIT SCHEDULE AND SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT AND CIRCUITING REQUIREMENTS ON THE SITE.

FOR OPERATIONS BUILDING PARTIAL PLAN, SEE 91-E-521

OPERATIONS BUILDING (90)



MATCH LINE, SEE DWG 05-E-105

MATCH LINE, SEE DWG 05-E-104

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED BY THE CLIENT AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

DSGN	KL MAESTRI	NO.	DATE	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	REVISION	BY	APVD	GRW	KLM	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	GJ LOVE									
CHK	JB MAURAS									
APVD	CW MASSIE									

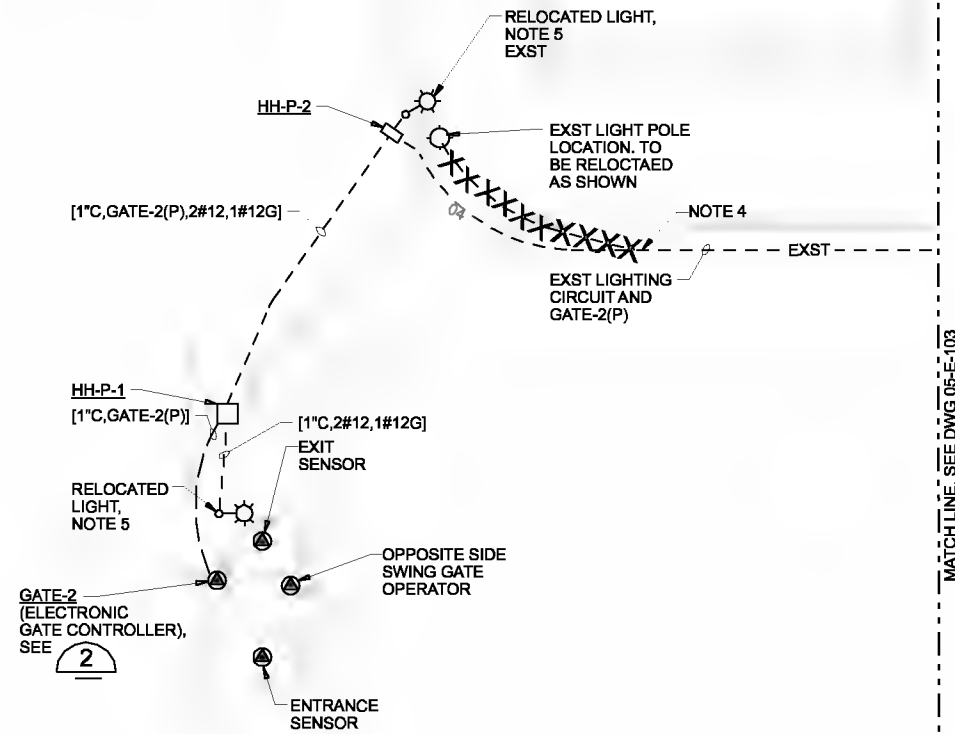


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

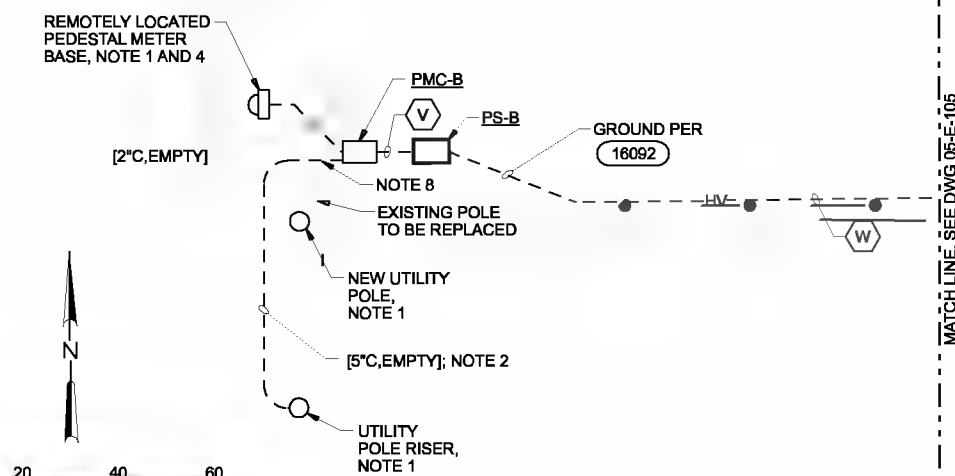
SITE DEVELOPMENT
SITE PLAN - AREA 106

SHEET	186
DWG	05-E-106
DATE	MAY 19 2006
PROJ	326918

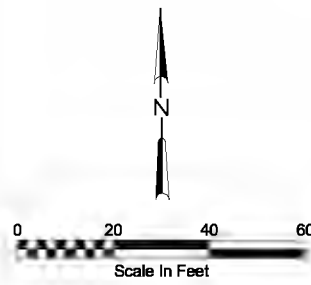
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MATCH LINE, SEE DWG 05-E-103



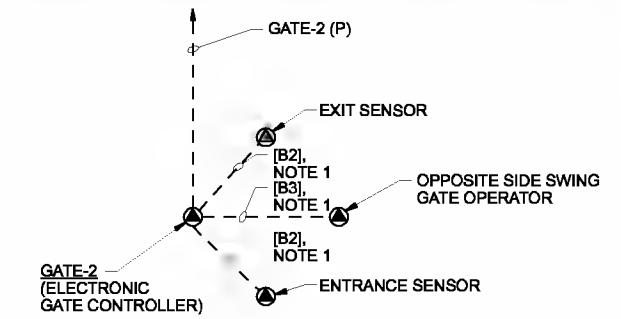
MATCH LINE, SEE DWG 05-E-105



PARTIAL PLAN

NOTES:

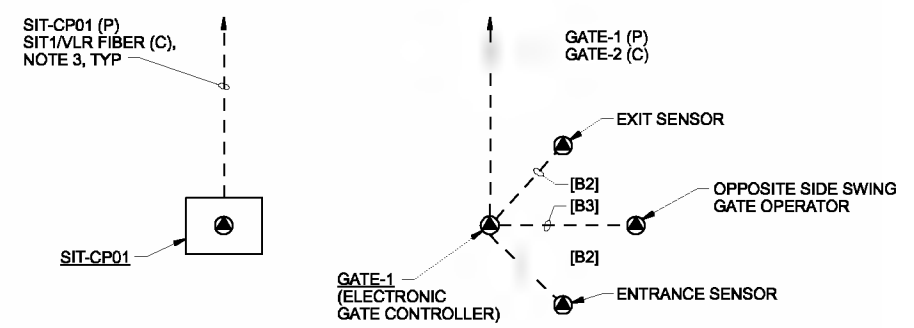
1. COORDINATE EXACT LOCATION WITH PACIFIC POWER.
2. 5" CONDUIT AND POLE RISER AS REQUIRED BY PACIFIC POWER.
3. REFER TO SPECIFICATION 16400 ELECTRICAL SERVICE REQUIREMENTS FOR ADDITIONAL REQUIREMENTS AND COORDINATION WITH THE UTILITY (PACIFIC POWER).
4. INTERCEPT EXISTING CIRCUIT AND EXTEND TO NEW POLE LOCATION. CIRCUIT TO MATCH EXISTING.
5. EXISTING POLE AND LUMINAIRE RELOCATED TO THIS LOCATION. SEE DEMOLITION DRAWING FOR EXISTING LOCATIONS. PROVIDE POLE BASE SIMILAR AS SHOWN ON DRAWING (16220)
6. FOR ELECTRICAL GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION SCHEDULE AND FOR GENERAL ELECTRICAL NOTES, SEE DRAWING 01-G-25.
7. INTERCEPT EXISTING CIRCUIT AND EXTEND TO NEW POLE LOCATION. CIRCUIT TO MATCH EXISTING.
8. ROUTE 5" AND 2" CONDUIT A MINIMUM OF 12" BELOW FOOTING OF SCREEN WALL AND AS REQUIRED BY PACIFIC POWER. INSTALL AT SAME TIME WALL IS BEING CONSTRUCTED.



NOTES:

1. FOR CIRCUITING BETWEEN GATE EQUIPMENT, VERIFY CIRCUITING REQUIREMENTS WITH GATE SUPPLIER.
2. VERIFY EQUIPMENT LOCATIONS WITH GATE SUPPLIER.
3. FOR CIRCUITING REQUIREMENTS, SEE SITE ROUTED CONDUIT SCHEDULE AND SITE ROUTED CIRCUIT SCHEDULE.

GATE-2 RISER DIAGRAM 2



NOTES:

1. FOR CIRCUITING BETWEEN GATE EQUIPMENT, VERIFY CIRCUITING REQUIREMENTS WITH GATE SUPPLIER.
2. VERIFY EQUIPMENT LOCATIONS WITH GATE SUPPLIER.
3. FOR CIRCUITING REQUIREMENTS, SEE SITE ROUTED CONDUIT SCHEDULE AND SITE ROUTED CIRCUIT SCHEDULE.

GATE-1 RISER DIAGRAM 1
05-E-105

DSGN	KL MAESTRI	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	NO.	DATE	REVISION	BY	APVD
DR	GJ LOVE						
CHK	JB MAURIS						
APVD	CW MASSIE						

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



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT	SHEET	187
PARTIAL PLAN	DWG	05-E-201
	DATE	MAY 19 2006
	PROJ	326918

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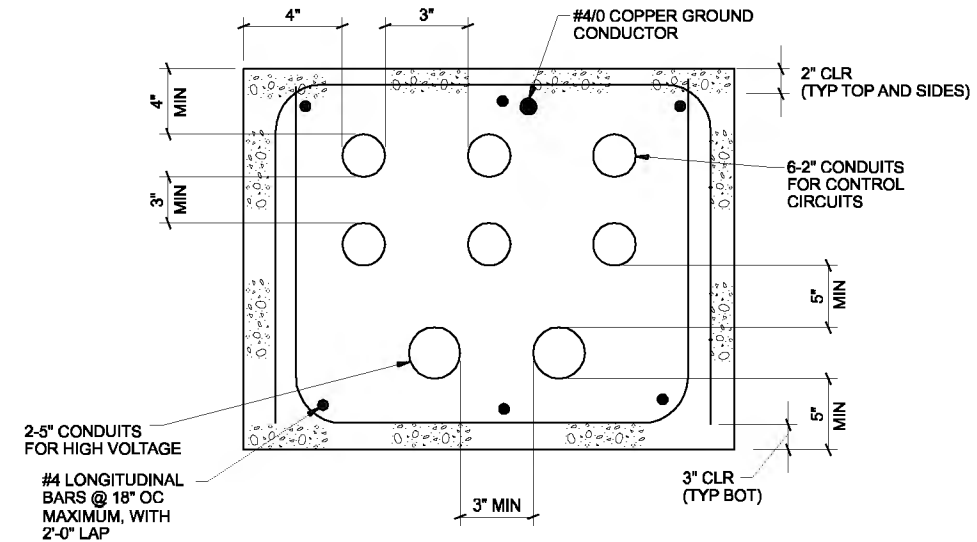
MANHOLE / HANDHOLE SCHEDULE

NAME	UV PNs	Actual Dim. Inside	Actual Dim. Outside	MINIMUM INSIDE DIMENSIONS	COVER INSCRIPTION	COM.
HH-LT-1	233-LA	36" x 24" x 32"	44" x 32" x 42"	36" x 24" x 36"	LIGHTING, HH-LT-1	H C
HH-LT-2	233-LA	36" x 24" x 32"	44" x 32" x 42"	36" x 24" x 36"	LIGHTING, HH-LT-2	H C
HH-LT-3	233-LA	36" x 24" x 32"	44" x 32" x 42"	36" x 24" x 36"	LIGHTING, HH-LT-3	H C
HH-LV-1	444-LA	42" x 42" x 35.5"	48" x 48" x 48"	42" x 42" x 42"	SIGNAL, HH-LV-1	H C
HH-LV-2	444-LA	42" x 42" x 35.5"	48" x 48" x 48"	42" x 42" x 42"	SIGNAL, HH-LV-2	H C
HH-LV-3	444-LA	42" x 42" x 35.5"	48" x 48" x 48"	42" x 42" x 42"	SIGNAL, HH-LV-3	H C
HH-LV-4	444-LA	42" x 42" x 35.5"	48" x 48" x 48"	42" x 42" x 42"	SIGNAL, HH-LV-4	H C
HH-LV-5	444-LA	42" x 42" x 35.5"	48" x 48" x 48"	42" x 42" x 42"	SIGNAL, HH-LV-5	H C
HH-LV-6	444-LA	42" x 42" x 35.5"	48" x 48" x 48"	42" x 42" x 42"	SIGNAL, HH-LV-6	H C
HH-LV-7	444-LA	42" x 42" x 35.5"	48" x 48" x 48"	42" x 42" x 42"	SIGNAL, HH-LV-7	H C
HH-LV-8	444-LA	42" x 42" x 35.5"	48" x 48" x 48"	42" x 42" x 42"	SIGNAL, HH-LV-8	H C
HH-LV-9	444-LA	42" x 42" x 35.5"	48" x 48" x 48"	42" x 42" x 42"	SIGNAL, HH-LV-9	H C
HH-LV-11	444-LA	42" x 42" x 35.5"	48" x 48" x 48"	42" x 42" x 42"	SIGNAL, HH-LV-11	H C
HH-LV-12	444-LA	42" x 42" x 35.5"	48" x 48" x 48"	42" x 42" x 42"	SIGNAL, HH-LV-12	H C / New
HH-P-1	233-LA	36" x 24" x 32"	44" x 32" x 42"	36" x 24" x 36"	ELECTRICAL POWER, HH-P-1	H C
HH-P-2	233-LA	36" x 24" x 32"	44" x 32" x 42"	36" x 24" x 36"	ELECTRICAL POWER, HH-P-2	H C
HH-P-3	233-LA	36" x 24" x 32"	44" x 32" x 42"	36" x 24" x 36"	ELECTRICAL POWER, HH-P-3	H C /Addn.
HH-P-4	233-LA	36" x 24" x 32"	44" x 32" x 42"	36" x 24" x 36"	ELECTRICAL POWER, HH-P-4	H C /Addn.
MH-HV-1	577-LA	78" x 50" x 72"	84" x 56" x 84"	60" x 72" x 72"	HV POWER, MH-HV-1	H C
MH-HV-2	577-LA	78" x 50" x 72"	84" x 56" x 84"	60" x 72" x 72"	HV POWER, MH-HV-2	H C
MH-HV-3	577-LA	78" x 50" x 72"	84" x 56" x 84"	60" x 72" x 72"	HV POWER, MH-HV-3	H C
MH-HV-4	577-LA	78" x 50" x 72"	84" x 56" x 84"	60" x 72" x 72"	HV POWER, MH-HV-4	H C
MH-HV-5	577-LA	78" x 50" x 72"	84" x 56" x 84"	60" x 72" x 72"	HV POWER, MH-HV-5	H C
MH-HV-6	577-LA	78" x 50" x 72"	84" x 56" x 84"	60" x 72" x 72"	HV POWER, MH-HV-6	H C
MH-HV-7	577-LA	78" x 50" x 72"	84" x 56" x 84"	60" x 72" x 72"	HV POWER, MH-HV-7	H C
MH-HV-8	577-LA	78" x 50" x 72"	84" x 56" x 84"	60" x 72" x 72"	HV POWER, MH-HV-8	H C
MH-P-1	687-LA	96" x 72" x 84"	104" x 80" x 97"	76" x 84" x 84"	ELECTRICAL POWER, MH-P-1	H C
MH-P-2	687-LA	96" x 72" x 84"	104" x 80" x 97"	76" x 84" x 84"	ELECTRICAL POWER, MH-P-2	H C
MH-P-3	776-LA	76" x 76" x 79"	84" x 84" x 92"	76" x 76" x 84"	ELECTRICAL POWER, MH-P-3	H C
MH-P-5	577-LA	78" x 50" x 72"	84" x 56" x 84"	60" x 72" x 72"	ELECTRICAL POWER, MH-P-5	H C
MH-P-6	577-LA	78" x 50" x 72"	84" x 56" x 84"	60" x 72" x 72"	ELECTRICAL POWER, MH-P-6	H C
MH-P-7	577-LA	78" x 50" x 72"	84" x 56" x 84"	60" x 72" x 72"	ELECTRICAL POWER, MH-P-7	H C
MH-P-8	577-LA	78" x 50" x 72"	84" x 56" x 84"	60" x 72" x 72"	ELECTRICAL POWER, MH-P-8	H C
MH-P-9	776-LA	76" x 76" x 79"	84" x 84" x 92"	72" x 72" x 72"	ELECTRICAL POWER, MH-P-9	H C
MH-P-11	577-LA	78" x 50" x 72"	84" x 56" x 84"	60" x 72" x 72"	ELECTRICAL POWER, MH-P-11	H C
VAULT/PAD FOR TX-32A				96" x 120" x 84"	NO INSCRIPTION REQUIRED	NOTE 3
VAULT/PAD FOR TX-32B				96" x 120" x 84"	NO INSCRIPTION REQUIRED	NOTE 3
VAULT/PAD FOR PS-A				60" x 96" x 84"	NO INSCRIPTION REQUIRED	NOTE 4
VAULT/PAD FOR PS-B				60" x 96" x 84"	NO INSCRIPTION REQUIRED	NOTE 4

H C = Hinged cover

NOTES:

- MINIMUM INSIDE DIMENSIONS REQUIRED ARE SHOWN ABOVE.
- TX-10A AND TX-10B SIT ON PADS, VAULTS NOT REQUIRED. PROVIDE A CONCRETE PAD IN ACCORDANCE WITH DETAIL 3356, TYPE H.
- APPROXIMATE VAULT SIZE SHOWN. FINAL DEPTH AND WIDTH TO BE COORDINATED WITH TRANSFORMER DIMENSIONS. TRANSFORMER TO SIT ON VAULT COVER, SIMILAR TO UTILITY VAULT # 810-T-2436P-TRANS1-PGE WITH HINGED DIAMOND PLATE ACCESS HATCH. COORDINATE OPENING LOCATIONS FOR TRANSFORMER PROVIDED.
- APPROXIMATE VAULT SIZE SHOWN. FINAL DEPTH AND WIDTH TO BE COORDINATED WITH PRIMARY SWITCH DIMENSIONS. PRIMARY SWITCH TO SIT ON VAULT COVER WITH AN OPENING FOR THE CONDUCTORS TO BE ROUTED THROUGH. COORDINATE OPENING LOCATIONS FOR PRIMARY SWITCH PROVIDED.



DUCTBANK SECTION 1
NTS 05-E-105

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KIMBIL MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

DSGN	KL MAESTRI									
DR	GJ LOVE									
CHK	JB MAURAS	01/20/10								
APVD	CW MASSIE	NO.	DATE	REVISION	GRW	KLM	BY	APVD		



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

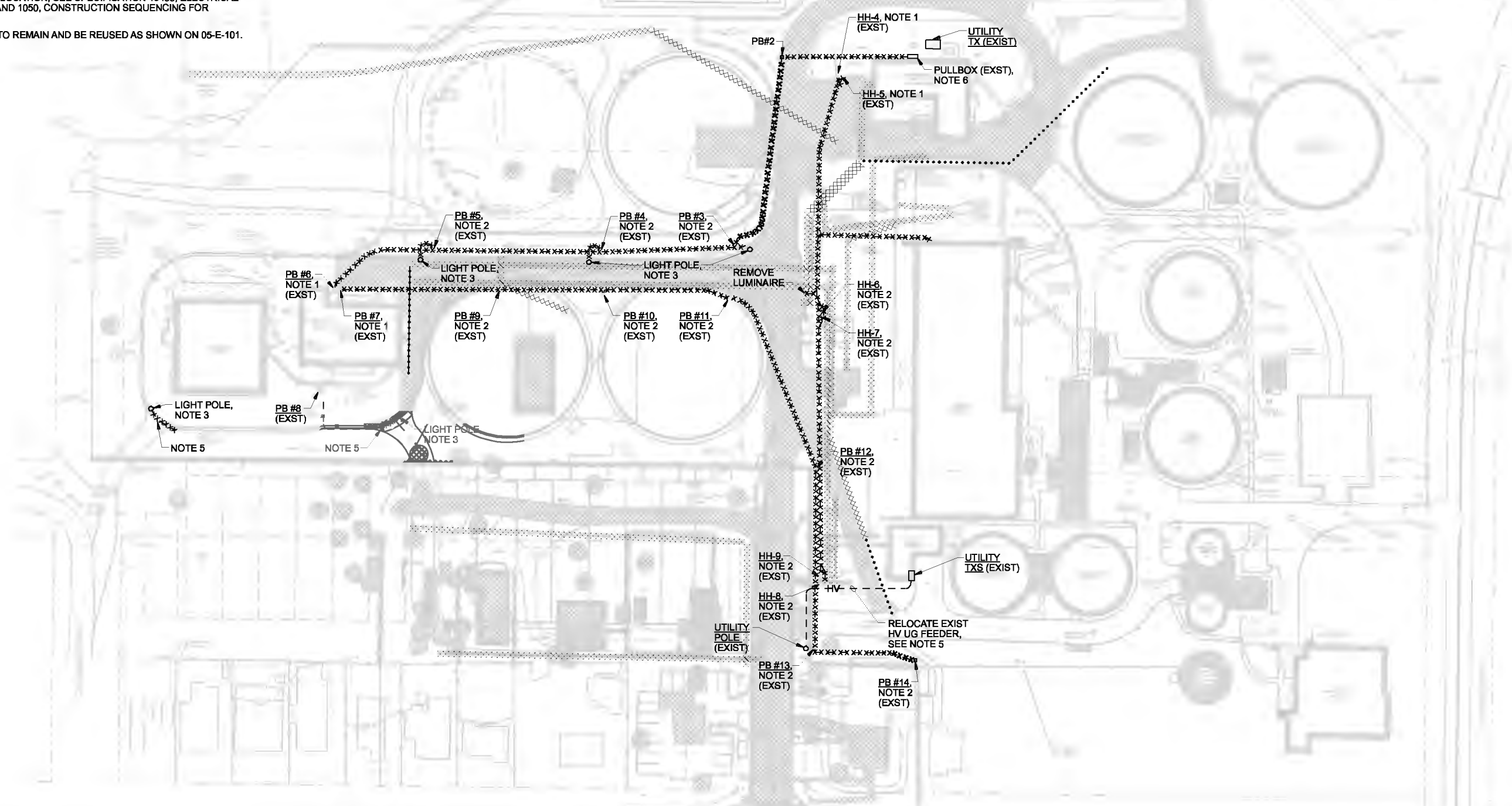
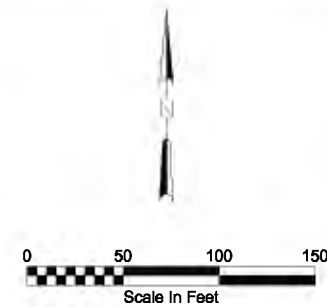
SITE DEVELOPMENT
ELECTRICAL
SITE DETAILS AND SCHEDULES

SHEET	188
DWG	05-E-401
DATE	MAY 19 2006
PROJ	326918

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NOTES:

1. PULLBOX OR HANDHOLE TO REMAIN.
2. PULLBOXES PB 2,3,4,5,9,10,11,12,13,14 AND HANDHOLES HH-8,9 AND INTERCONNECTING DUCTBANKS ARE TO BE REMOVED AFTER ALTERNATIVE FEEDERS ARE INSTALLED AND PRIOR TO STARTING CONSTRUCTION OF THE SECONDARY CLARIFIERS, HEADWORKS BUILDING, AND BLOWER BUILDING. REFER TO SPECIFICATION SECTION 01040, COORDINATION; SPECIFICATION SECTION 01050, CONSTRUCTION SEQUENCING; AND THE ELECTRICAL SITE PLANS FOR ADDITIONAL INFORMATION.
3. RELOCATE LIGHT POLES TO NEW LOCATIONS SHOWN ON SITE PLAN.
4. A PORTION OF THE LIGHTING CIRCUITS TO BE REMOVED. FOR ADDITIONAL INFORMATION SEE SITE PLAN 05-E-103 AND 05-E-201. FIELD VERIFY DUCTBANK LOCATION.
5. APPROXIMATE LOCATION OF HV EXISTING FEEDER SHOWN. FIELD TO VERIFY EXACT LOCATION. COORDINATE WITH PACIFIC POWER TO RELOCATE FEEDER TO AN OVERHEAD SERVICE DURING CONSTRUCTION SO THAT NEW SERVICES CAN BE INSTALLED IN THIS LOCATION, SEE SPECIFICATION 16400, ELECTRICAL SERVICE REQUIREMENTS AND 1050, CONSTRUCTION SEQUENCING FOR ADDITIONAL INFORMATION.
6. WALL MOUNTED PULLBOX TO REMAIN AND BE REUSED AS SHOWN ON 05-E-101.



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/08 BY KAMIL MAESTRI, STATE OF OREGON, P.E. NO. 35789PPE

DSGN	KL MAESTRI						
DR	GJ LOVE						
CHK	JB MAURAS	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

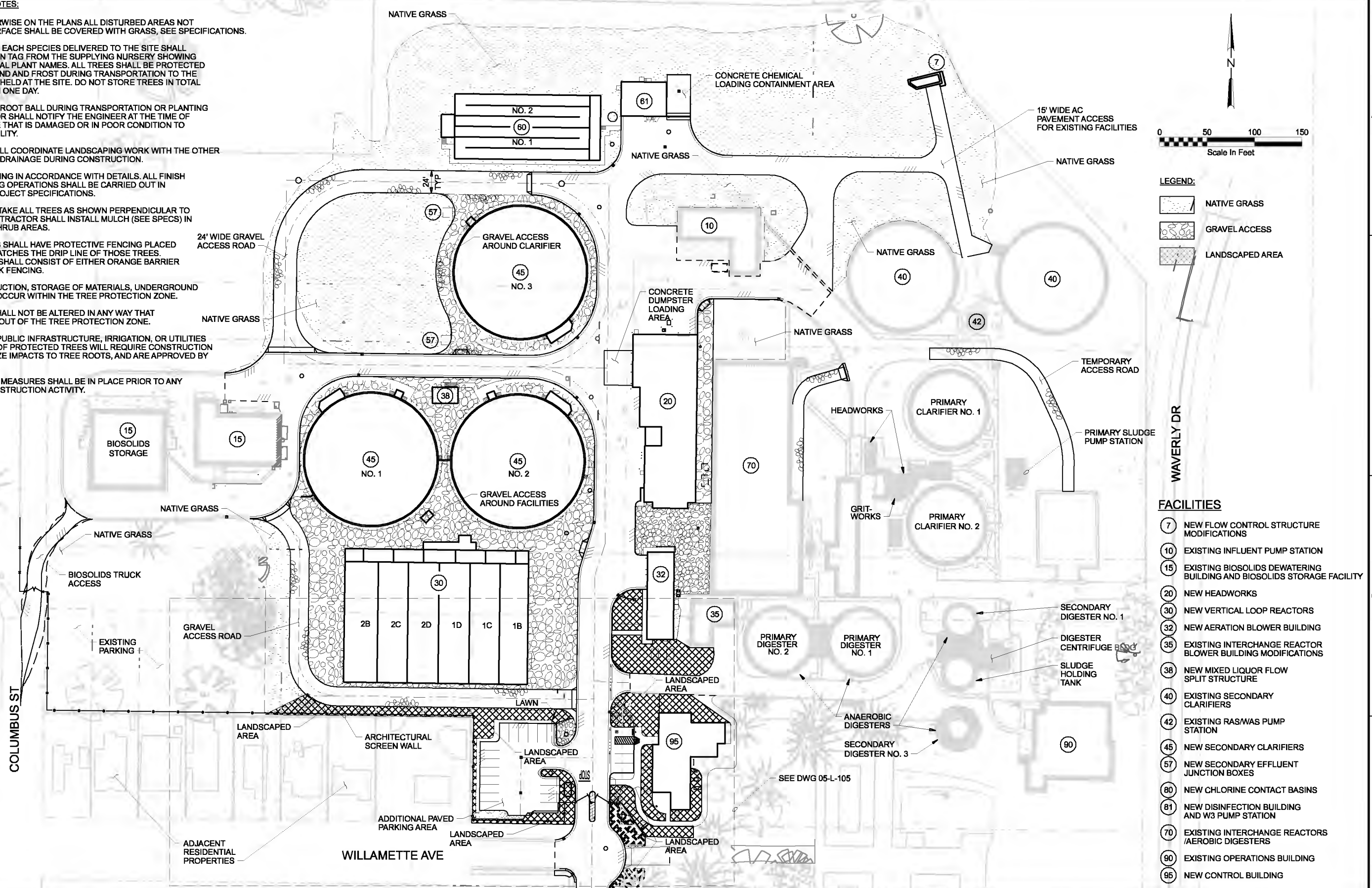
SITE DEVELOPMENT
ELECTRICAL
OVERALL DEMOLITION PLAN

SHEET	189
DWG	05-ED-100
DATE	MAY 19 2006
PROJ	326918

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GENERAL LANDSCAPING NOTES:

- UNLESS SHOWN OTHERWISE ON THE PLANS ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE COVERED WITH GRASS, SEE SPECIFICATIONS.
- AT LEAST ONE TREE OF EACH SPECIES DELIVERED TO THE SITE SHALL HAVE AN IDENTIFICATION TAG FROM THE SUPPLYING NURSERY SHOWING COMMON AND BOTANICAL PLANT NAMES. ALL TREES SHALL BE PROTECTED AGAINST HEAT, SUN, WIND AND FROST DURING TRANSPORTATION TO THE SITE AND WHILE BEING HELD AT THE SITE. DO NOT STORE TREES IN TOTAL DARKNESS MORE THAN ONE DAY.
- DO NOT DAMAGE TREE ROOT BALL DURING TRANSPORTATION OR PLANTING PROCESS. CONTRACTOR SHALL NOTIFY THE ENGINEER AT THE TIME OF DELIVERY OF ANY TREE THAT IS DAMAGED OR IN POOR CONDITION TO DETERMINE ACCEPTABILITY.
- THE CONTRACTOR SHALL COORDINATE LANDSCAPING WORK WITH THE OTHER TRADES AND MAINTAIN DRAINAGE DURING CONSTRUCTION.
- INSTALL ALL LANDSCAPING IN ACCORDANCE WITH DETAILS. ALL FINISH GRADING AND PLANTING OPERATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL STAKE ALL TREES AS SHOWN PERPENDICULAR TO PREVAILING WIND. CONTRACTOR SHALL INSTALL MULCH (SEE SPECS) IN ALL GROUND COVER SHRUB AREAS.
- ALL PROTECTED TREES SHALL HAVE PROTECTIVE FENCING PLACED AROUND THEM THAT MATCHES THE DRIP LINE OF THOSE TREES. PROTECTIVE FENCING SHALL CONSIST OF EITHER ORANGE BARRIER FENCING OR CHAIN LINK FENCING.
- NO GRADING, CONSTRUCTION, STORAGE OF MATERIALS, UNDERGROUND UTILITIES, ETC. SHALL OCCUR WITHIN THE TREE PROTECTION ZONE.
- SURFACE DRAINAGE SHALL NOT BE ALTERED IN ANY WAY THAT DIRECTS WATER IN OR OUT OF THE TREE PROTECTION ZONE.
- ANY INSTALLATION OF PUBLIC INFRASTRUCTURE, IRRIGATION, OR UTILITIES WITHIN THE DRIP LINE OF PROTECTED TREES WILL REQUIRE CONSTRUCTION METHODS THAT MINIMIZE IMPACTS TO TREE ROOTS, AND ARE APPROVED BY THE CITY FORESTER.
- ALL TREE PROTECTION MEASURES SHALL BE IN PLACE PRIOR TO ANY EARTHMOVING OR CONSTRUCTION ACTIVITY.



LEGEND:

- NATIVE GRASS
- GRAVEL ACCESS
- LANDSCAPED AREA

- FACILITIES**
- 7 NEW FLOW CONTROL STRUCTURE MODIFICATIONS
 - 10 EXISTING INFLUENT PUMP STATION
 - 15 EXISTING BIOSOLIDS DEWATERING BUILDING AND BIOSOLIDS STORAGE FACILITY
 - 20 NEW HEADWORKS
 - 30 NEW VERTICAL LOOP REACTORS
 - 32 NEW AERATION BLOWER BUILDING
 - 35 EXISTING INTERCHANGE REACTOR BLOWER BUILDING MODIFICATIONS
 - 38 NEW MIXED LIQUOR FLOW SPLIT STRUCTURE
 - 40 EXISTING SECONDARY CLARIFIERS
 - 42 EXISTING RAS/WAS PUMP STATION
 - 45 NEW SECONDARY CLARIFIERS
 - 57 NEW SECONDARY EFFLUENT JUNCTION BOXES
 - 80 NEW CHLORINE CONTACT BASINS
 - 81 NEW DISINFECTION BUILDING AND W3 PUMP STATION
 - 70 EXISTING INTERCHANGE REACTORS /AEROBIC DIGESTERS
 - 90 EXISTING OPERATIONS BUILDING
 - 95 NEW CONTROL BUILDING

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 2006 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 50132PE.

DSGN	JT ASHLEY						
DR	PA LONG						
CHK	DJ PETERSON	01/20/10					
APVD	CW MASSIE	NO.	DATE	REVISION	BY	APVD	

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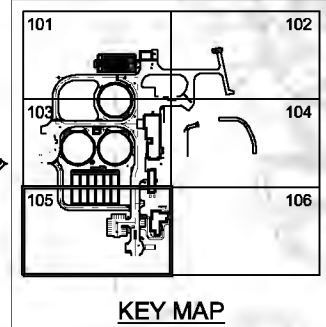


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENT PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

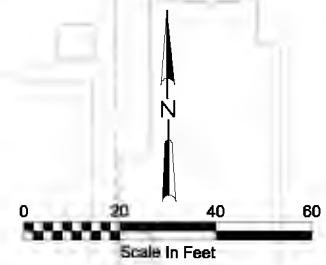
SITE DEVELOPMENT
OVERALL LANDSCAPING PLAN

SHEET	190
DWG	05-L-100
DATE	MAY 19 2006
PROJ	326918

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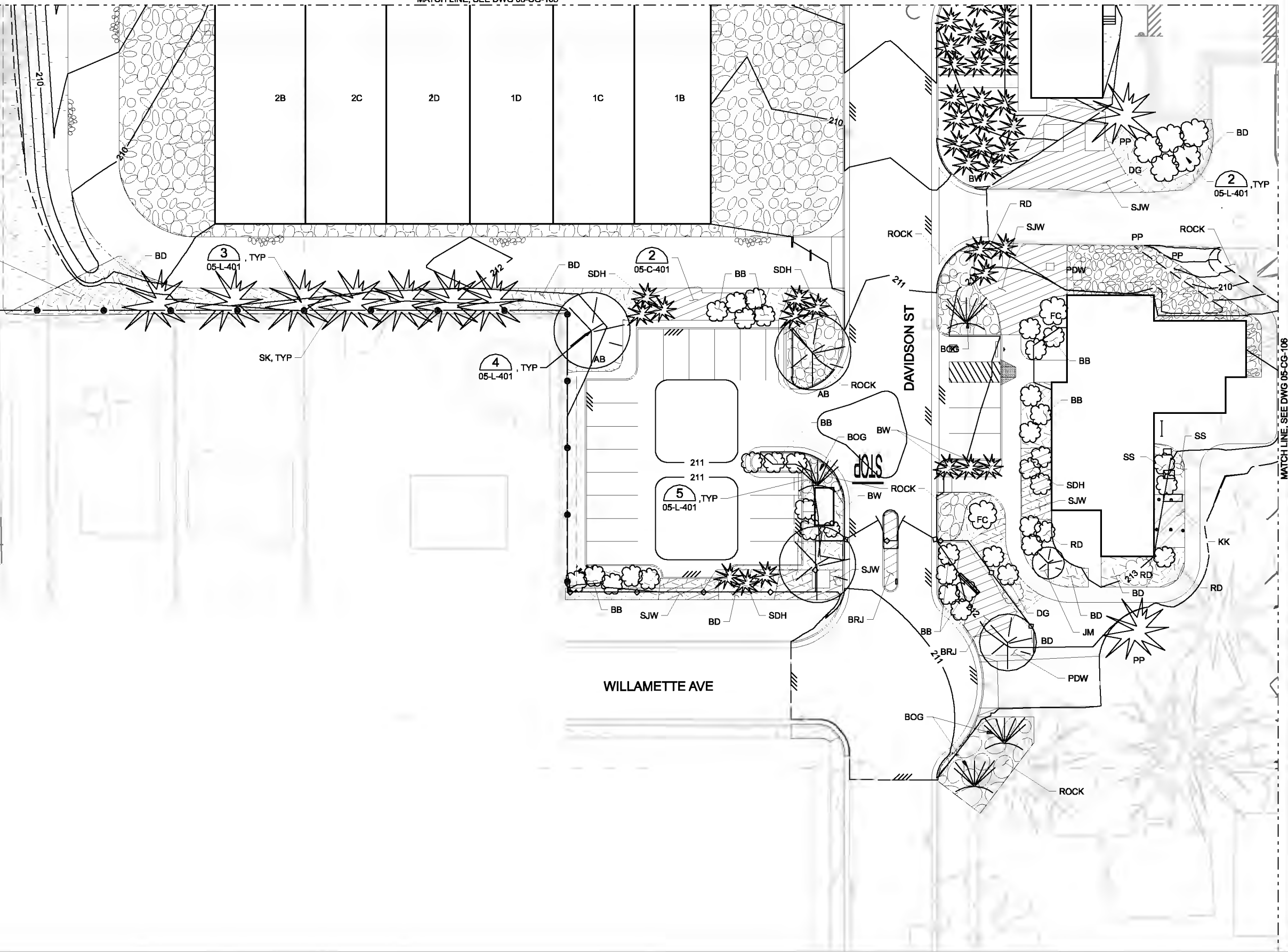


NATIVE GRASS



- NOTES**
1. FOR PLANTING SCHEDULE, SEE **7** ON DWG 05-L-401.
 2. FOR SOIL PREPARATION AND GENERAL PLANTING AND STAKING DETAILS, SEE DWG 05-L-401.
 3. SEE ADDITIONAL NOTES ON DWG 05-C-100.
 4. FOR TREE PROTECTION DURING CONSTRUCTION, SEE **6** ON DWG 05-L-401.

MATCH LINE, SEE DWG 05-CG-103



MATCH LINE, SEE DWG 05-CG-108

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DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	PALONG						
CHK	DJ PETERSON						
APVD	CW MASSIE						

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT



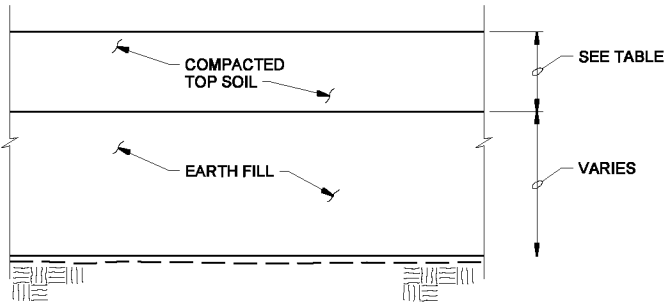
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
LANDSCAPING PLAN
AREA 105

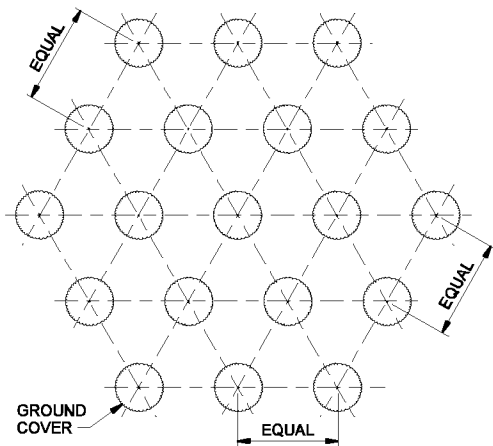
SHEET	191
DWG	05-L-105
DATE	MAY 19 2006
PROJ	326918

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TOP SOIL DEPTHS	
APPLICATION	DEPTH
LAWN	8 INCHES
PLANTING BEDS	20 INCHES
GROUND COVERS	2 INCHES BELOW BOTTOM OF PLANT ROOTBALL
NATIVE GRASS	4 INCHES

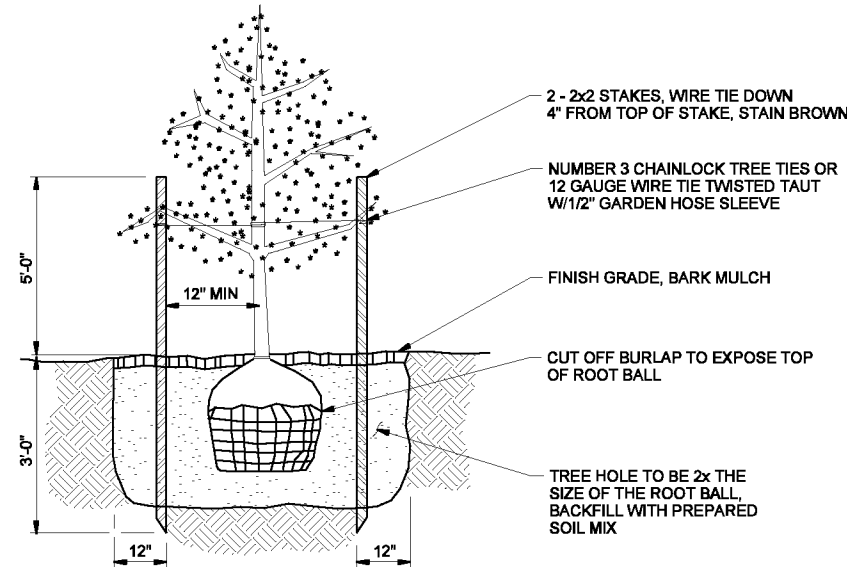


SOIL PREPARATION 1
NTS 05-L-105

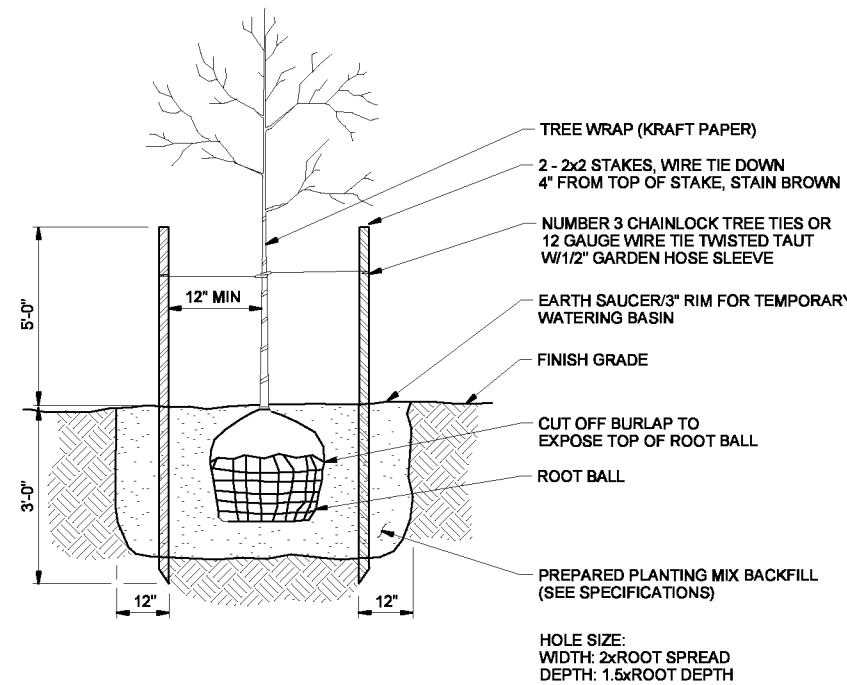


1. ALL GROUND COVER SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING PER ON CENTER SPACING AS SPECIFIED ON PLANTING PLAN.
2. LOCATE GROUND COVER ONE HALF OF SPECIFIED SPACING DISTANCE FROM ANY CURB, SIDEWALK, OF OTHER HARD SURFACE, UNLESS OTHERWISE SPECIFIED.

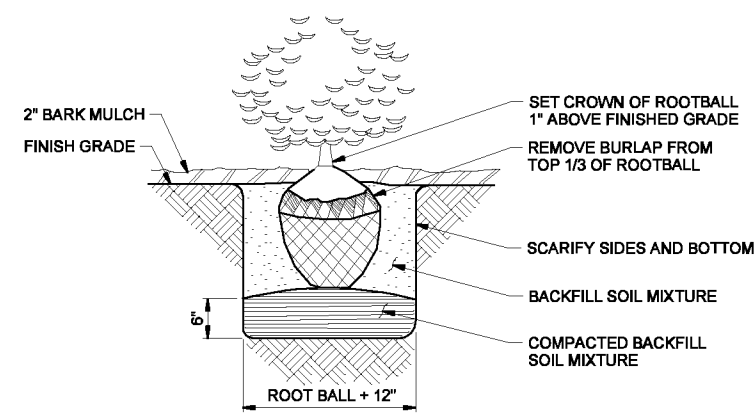
TYPICAL GROUND COVER PLANTING 2
NTS 05-L-105



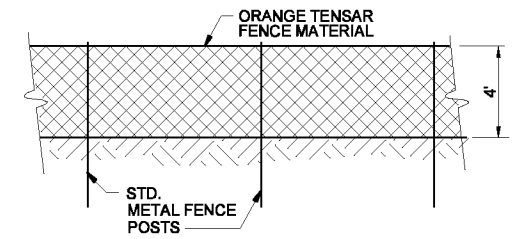
CONIFEROUS TREE PLANTING AND STAKING 3
NTS 05-L-105



DECIDUOUS TREE PLANTING AND STAKING 4
NTS 05-L-105



TYPICAL SHRUB PLANTING 5
NTS 05-L-105



TREE PROTECTION FENCING 6
NTS 05-L-100 05-L-105

SYMBOL	KEY	BOTANNICAL NAME	COMMON NAME	SIZE / CONDITION	SPACING
TREES					
	AB	ACER AND FREEMANII	AUTUMN BLAZE MAPLE	2" CALIPER	AS SHOWN
	PR	PYRUS CALLERYANA	PEAR		
	SK	JUNIPERUS SCOPULORUM	SKYROCKET	15 GAL	AS SHOWN
	PP	PINUS PARDESIA	PARDESIA PINE		
	PDW	CORNUS FLORIDA	PINK DOGWOOD	2" CALIPER	AS SHOWN
	CAJM	ACER PALMATUM 'SHAINA'	SHAINA JAPANESE MAPLE	15-GAL	AS SHOWN
SHRUBS					
	FC	RIBES SANGUINEUM	FLOWERING CURRANT	5-GAL	AS SHOWN
	DG	CORNUS SERICEA	RED TWIG DOGWOOD		
	BB	CARYOPTERIS BLUEMIST	BLUEBEARD		
	BW	BUXUS	BOXWOOD GREEN BEAUTY	5-GAL	AS SHOWN
	SDH	ILEX VOMITORIA	STOKES DWARF HOLLY		
	RD	RHODODENDRON	RHOD PURPLE GEM		
SHADE PLANTS & GRASSES					
	SS	PIERIS	SPRING SNOW PIERIS	5 GAL	AS SHOWN
	BOG	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	1 GAL	AS SHOWN
GROUND COVERS					
	BD	BARK DUST	BARK DUST	BARK DUST	AS SHOWN
	ROCK	ROCK	ROCK	ROCK	AS SHOWN
	KK	ARCHTOSTAPHYLOS URA URSI	URA KINNIKINNIK	1-GAL	AS SHOWN
	BRJ/SJW	JUNIPERUS HORIZONTALIS HYPERICUM	BLUE RUG JUNIPER ST JOHNS WART	1-GAL	AS SHOWN

PLANTING SCHEDULE 7
NTS 05-L-105

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 2006 BY JOHN T. ASHLEY, STATE OF OREGON, P.E. NO. 60132PE.

DSGN	JT ASHLEY	NO.	DATE	REVISION	BY	APVD	GTM	JAB	VERIFY SCALE
DR	SR REDDELL								BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	DJ PETERSON								0
APVD	CW MASSIE								IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

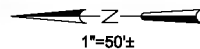
(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT



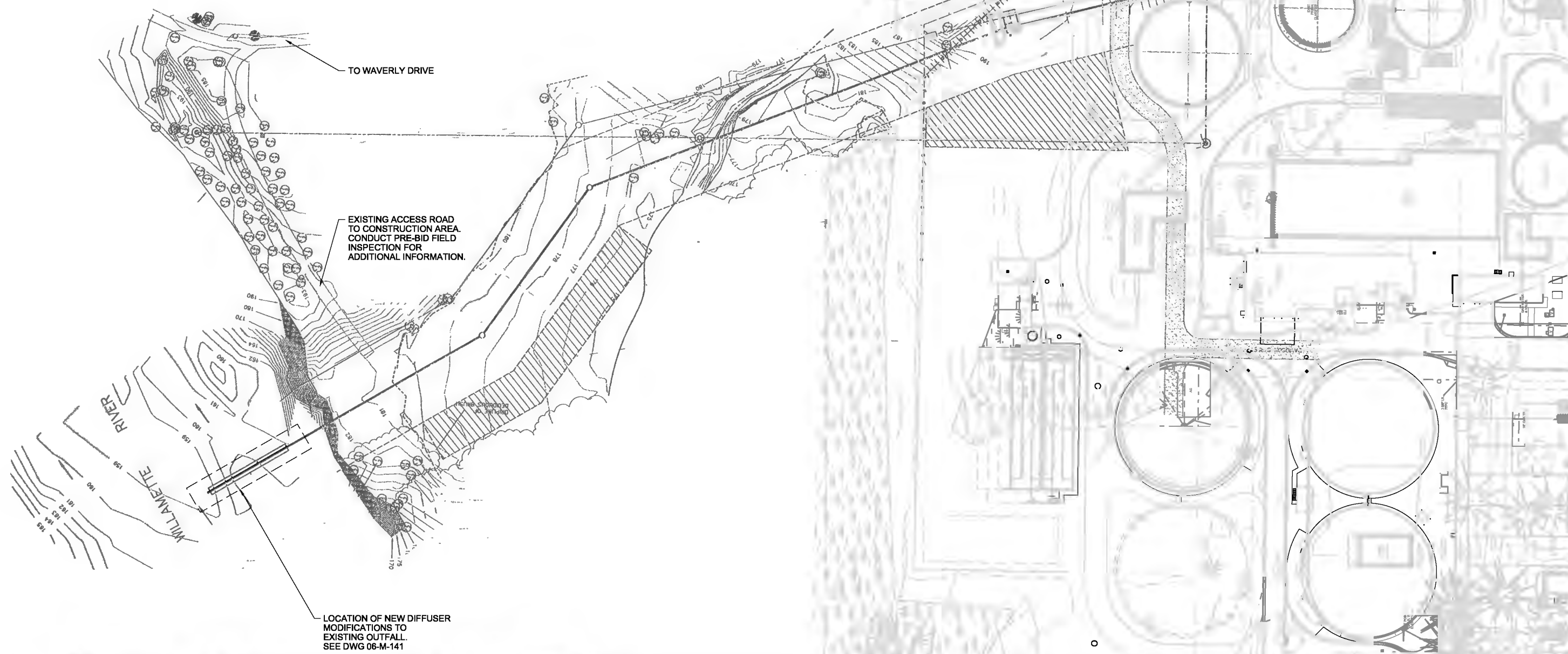
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

SITE DEVELOPMENT
LANDSCAPE DETAILS

SHEET	192
DWG	05-L-401
DATE	MAY 19 2006
PROJ	326918



NOTE:
 SCREENED INFORMATION INCLUDES AS-BUILTS
 FROM 1996 IMPROVEMENTS AND IMPROVEMENTS
 AS PART OF THIS CONTRACT.



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED MAY 2006 BY RICHARD S. SHANLEY, STATE OF OREGON, P.E. NO. 18933.

DSGN	M KATALINICH						
DR	MJ GABEL						
CHK	TR TEKIPPE	01/23/10					
APVD	RS SHANLEY	NO.	DATE	REVISION	BY	APVD	

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

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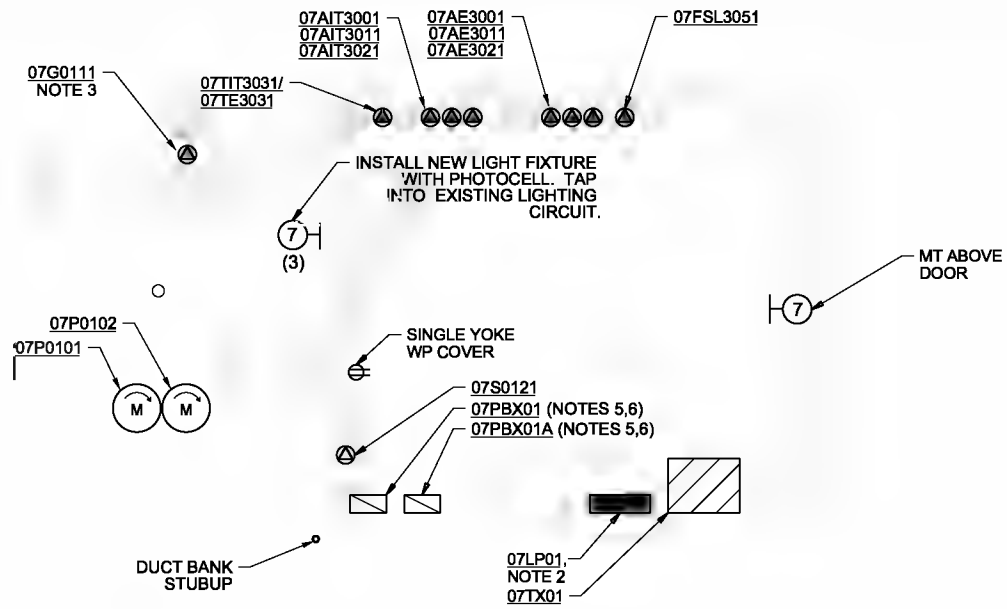
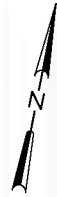


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

OUTFALL MODIFICATIONS
 OUTFALL SYSTEM PLAN

SHEET	193
DWG	06-M-131
DATE	MAY 19 2006
PROJ	326918

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NOTES:

1. FIELD ROUTE CONDUITS PER RISER DIAGRAMS.
2. CONNECT 07LP01 GROUND TO STRUCTURE GROUND.
3. MOTOR RATED SWITCHES ARE REQUIRED FOR ALL GATES PER 16500
4. 07TX01, 07LP01, LIGHTS, AND RECEPTACLES ARE PROVIDED WITH THE BUILDING.
5. SIZE PULLBOXES PER NEC REQUIREMENTS.
6. PROVIDE PVC COATED RIGID STEEL CONDUIT BETWEEN THE PULLBOXES AND THE UNDERGROUND HORIZONTAL PVC CONDUIT RUN. PROVIDE PVC COATED RIGID STEEL ELBOWS WHERE THE CONDUITS STUB UP.

TOP PLAN

3/8"=1'-0"

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY GREG BEBOIS STATE OF OREGON, P.E. NO. 77671.

NO	DATE	BY	APPROVED

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

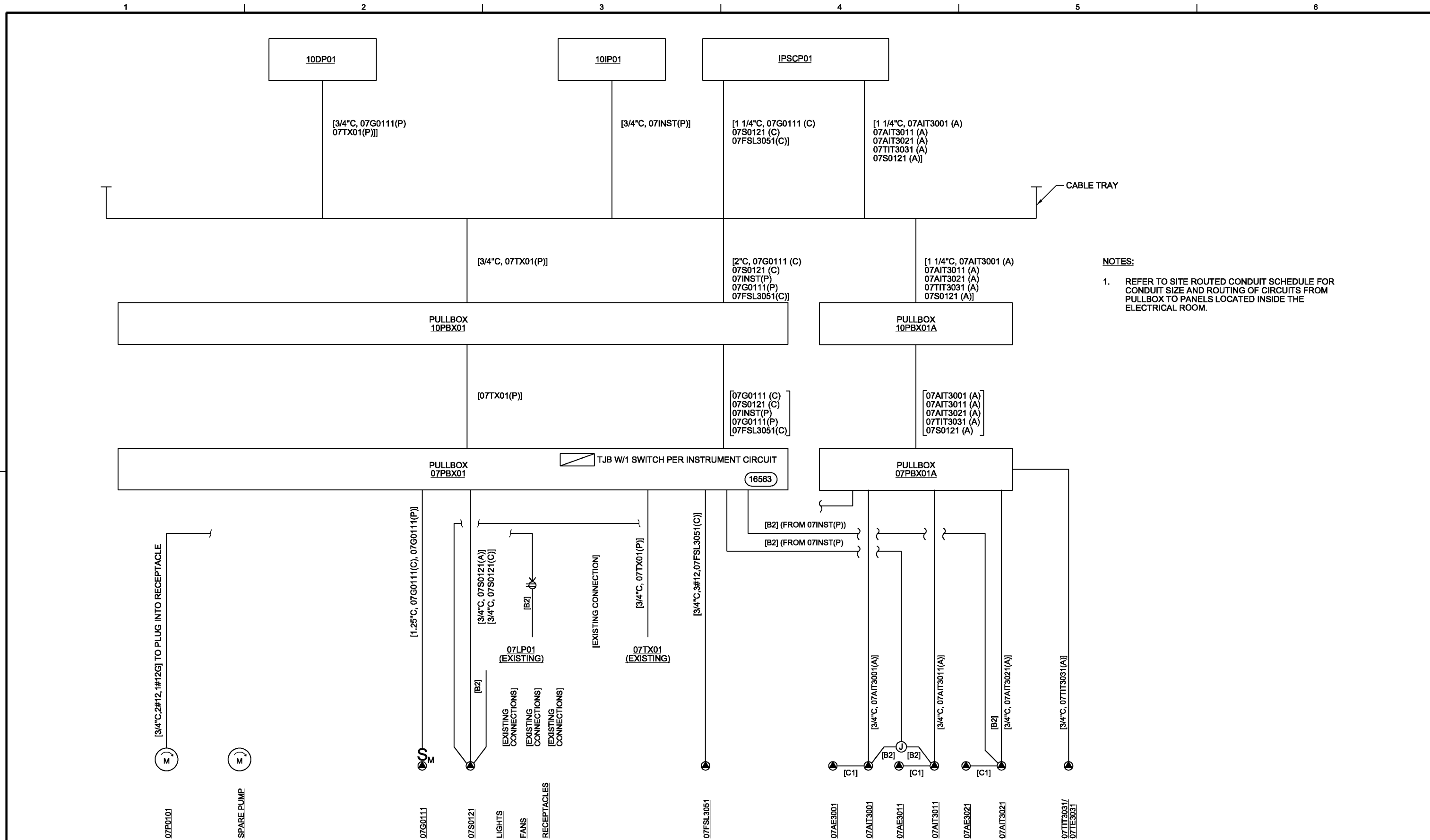
VERIFIED SCALE
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0 1"
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CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

FLOW CONTROL STRUCTURE MODIFICATIONS
PROCESS AND FACILITY PLANS

SHEET	195
DWG	07-E-141
DATE	MAY 19 2006
PROJ	326918



NOTES:
 1. REFER TO SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY GREG BEBOIS STATE OF OREGON, P.E. NO. 77671.

DSGN	BR RODGERS								
DR	RB CAVE								
CHK	GJ DeBOIS	01/20/10							
APVD	RS SHANLEY	NO.	DATE	REVISION	BY	APVD			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
 AS-BUILT

VERIFY SCALE
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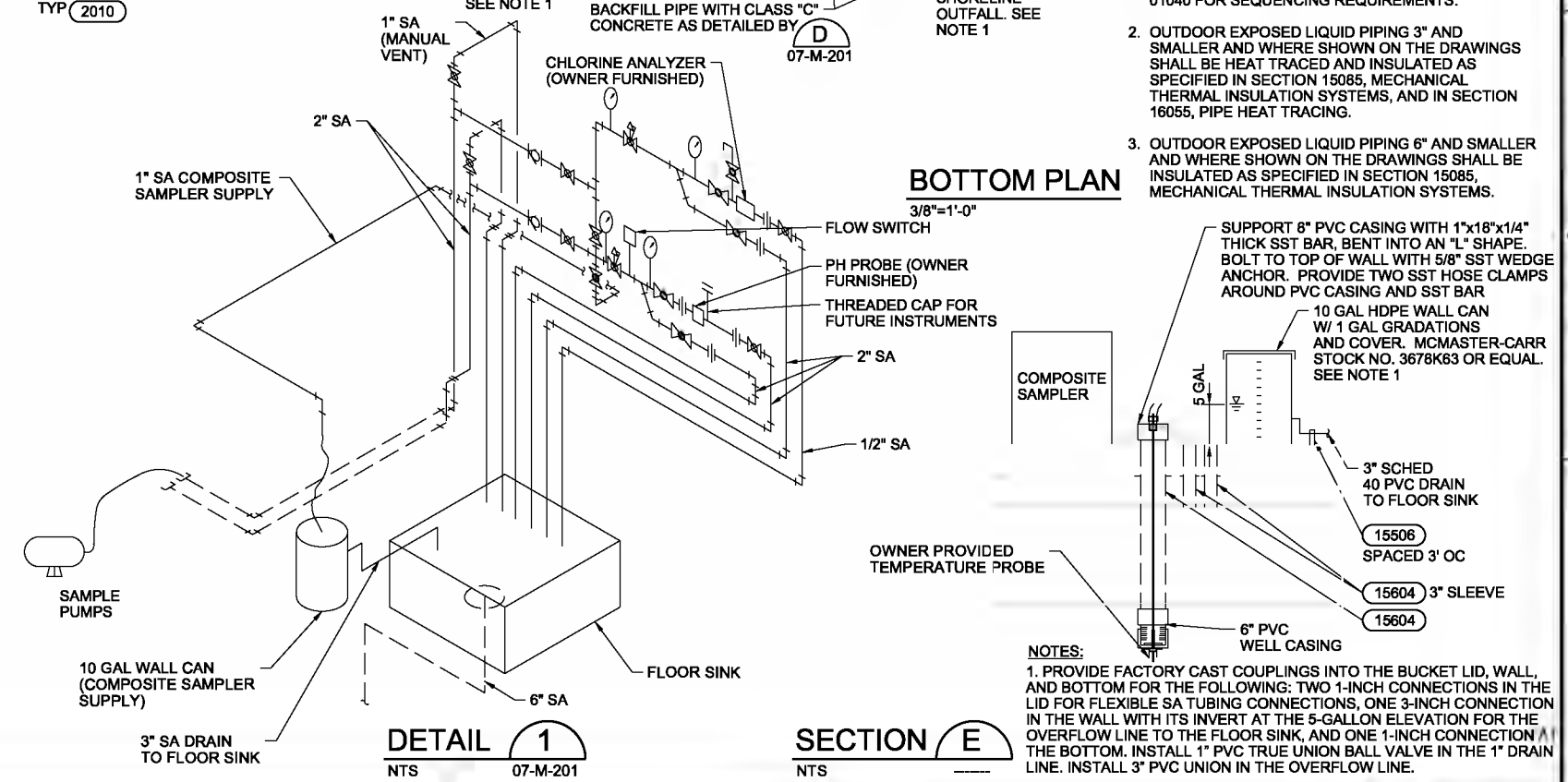
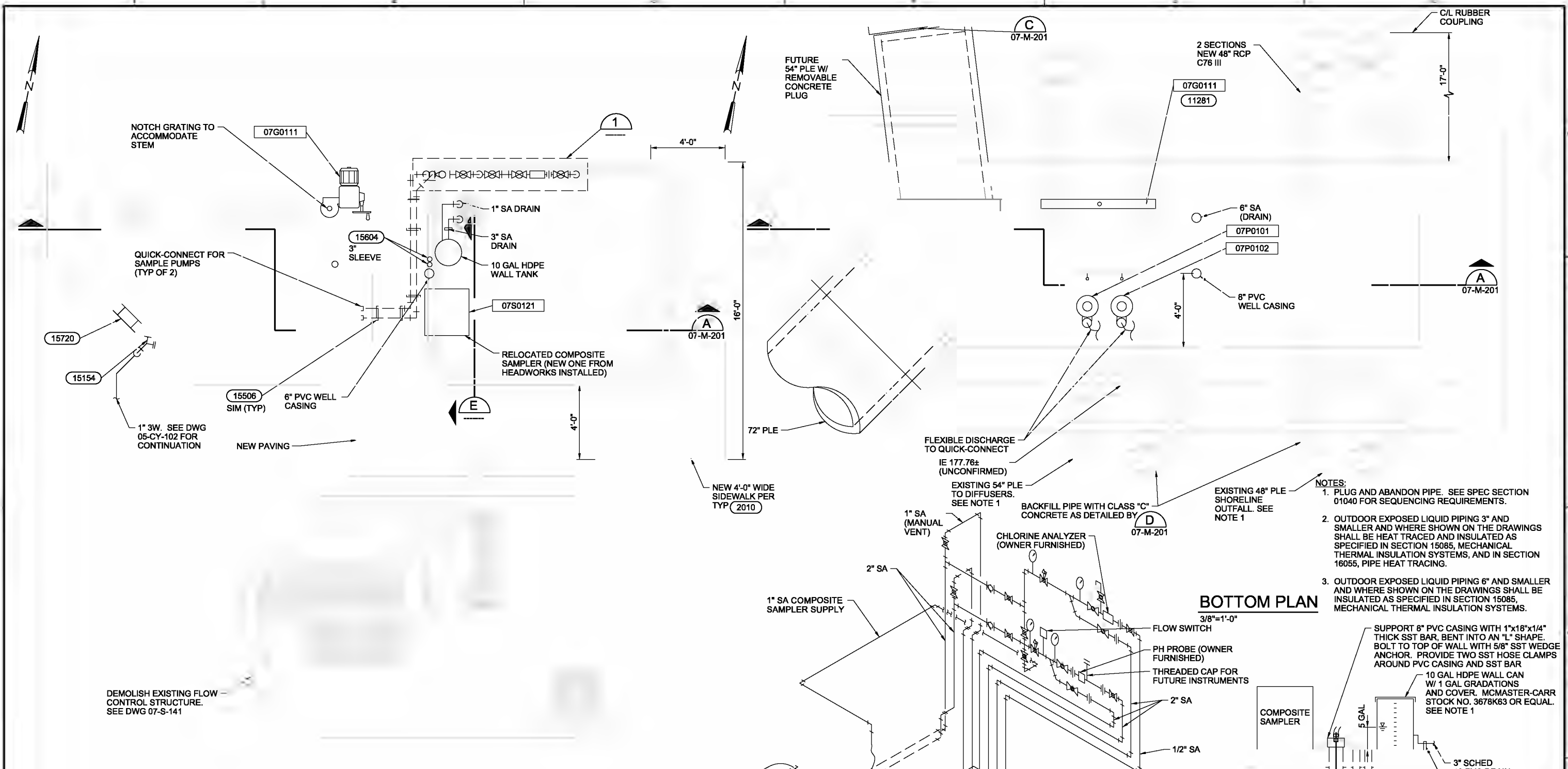


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

FLOW CONTROL STRUCTURE MODIFICATIONS
RISER DIAGRAM

SHEET	196
DWG	07-E-501
DATE	MAY 19 2006
PROJ	326918

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. PLUG AND ABANDON PIPE. SEE SPEC SECTION 01040 FOR SEQUENCING REQUIREMENTS.
 2. OUTDOOR EXPOSED LIQUID PIPING 3" AND SMALLER AND WHERE SHOWN ON THE DRAWINGS SHALL BE HEAT TRACED AND INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS, AND IN SECTION 16055, PIPE HEAT TRACING.
 3. OUTDOOR EXPOSED LIQUID PIPING 6" AND SMALLER AND WHERE SHOWN ON THE DRAWINGS SHALL BE INSULATED AS SPECIFIED IN SECTION 15085, MECHANICAL THERMAL INSULATION SYSTEMS.

- NOTES:**
1. PROVIDE FACTORY CAST COUPLINGS INTO THE BUCKET LID, WALL, AND BOTTOM FOR THE FOLLOWING: TWO 1-INCH CONNECTIONS IN THE LID FOR FLEXIBLE SA TUBING CONNECTIONS, ONE 3-INCH CONNECTION IN THE WALL WITH ITS INVERT AT THE 5-GALLON ELEVATION FOR THE OVERFLOW LINE TO THE FLOOR SINK, AND ONE 1-INCH CONNECTION AT THE BOTTOM. INSTALL 1" PVC TRUE UNION BALL VALVE IN THE 1" DRAIN LINE. INSTALL 3" PVC UNION IN THE OVERFLOW LINE.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY WILLIAM J. SHANLEY STATE OF OREGON, P.E. NO. 18,933.

DESIGN	M. KATALINICH	NO.	DATE	REVISION	BY	APPROVED
DR	M. GADE					
CHK	T. THORPE	01/20/10				
APPROVED	R. SHANLEY					



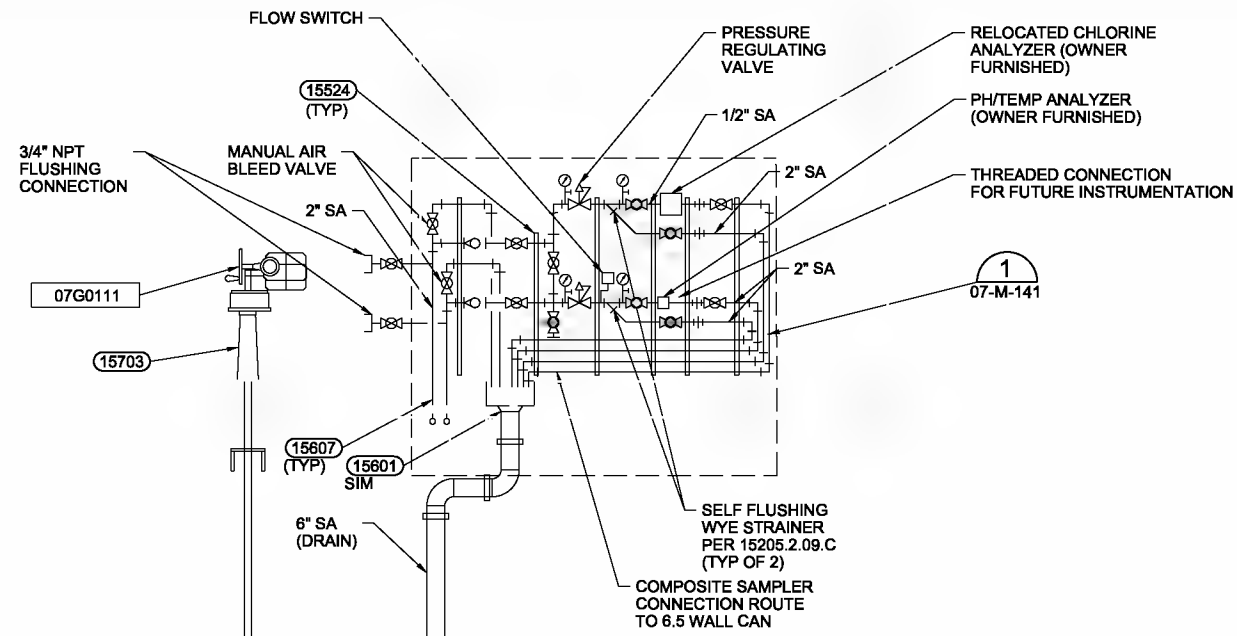
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

FLOW CONTROL STRUCTURE
PLANS

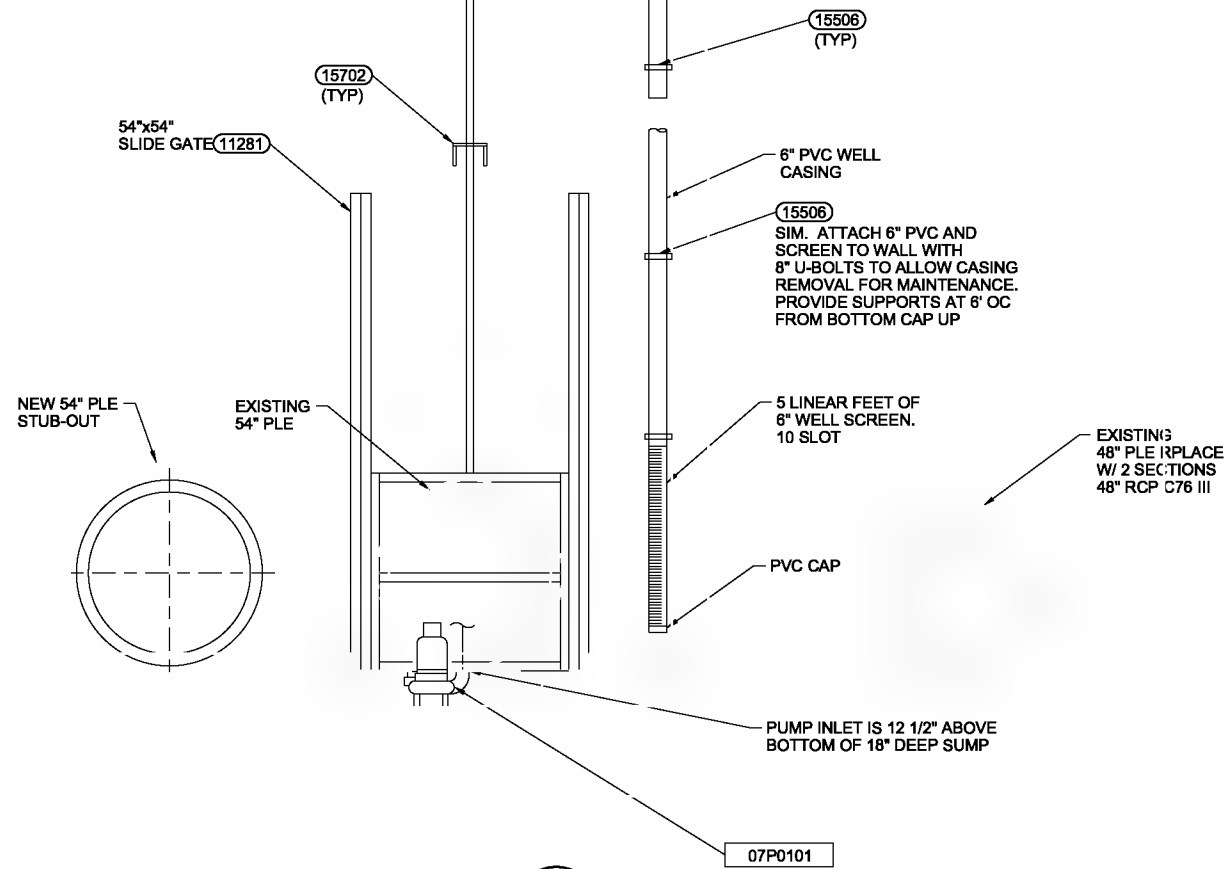
SHEET	197
DWG	70-M-141
DATE	MAY 19 2006
PROJ	326918

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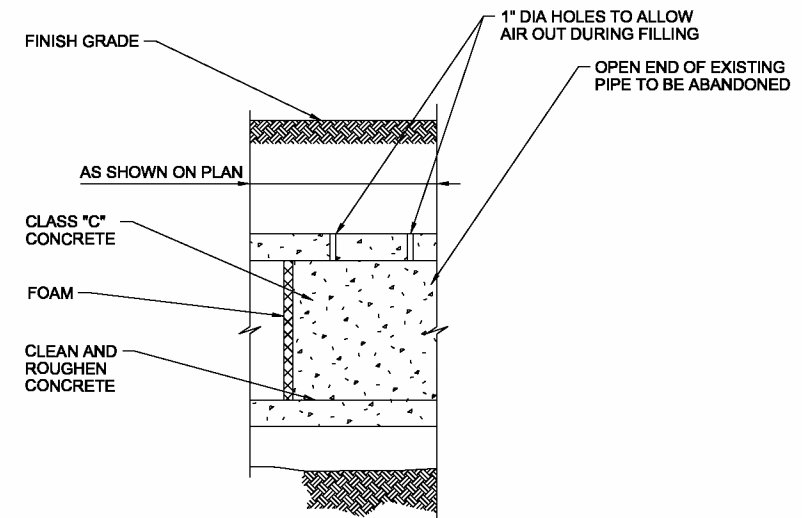
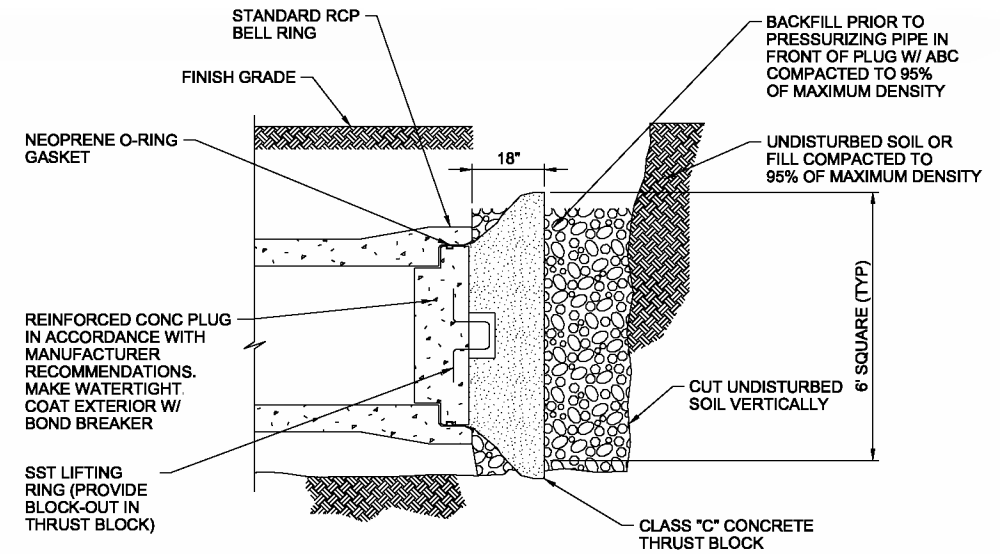
EL 203.50



EL 176.00



SECTION A
3/8"=1'-0" 07-M-141



THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY SHANLEY STATE OF OREGON, P.E. NO. 16,933.

DATE	BY	CHKD	APP'D
07/19/2006	AF	AGC	BRK

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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

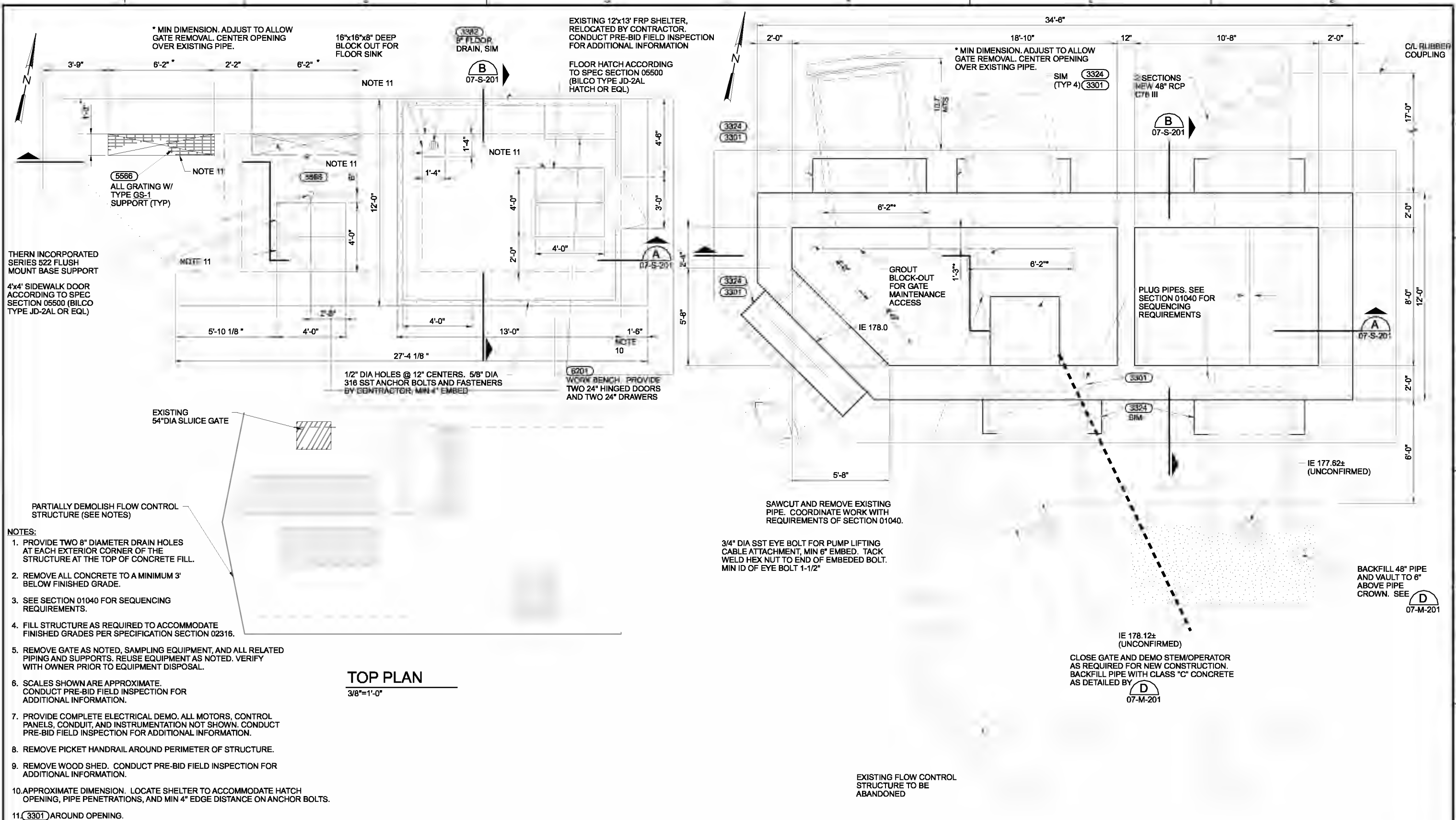


CITY OF ALBANY
SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

FLOW CONTROL STRUCTURE MODIFICATIONS
SECTIONS AND DETAILS

SHEET	198
DWG	07-M-201
DATE	MAY 19 2006
PROJ	326918

REUSE OF DOCUMENTS: CH2M HILL



- NOTES:**
1. PROVIDE TWO 8" DIAMETER DRAIN HOLES AT EACH EXTERIOR CORNER OF THE STRUCTURE AT THE TOP OF CONCRETE FILL.
 2. REMOVE ALL CONCRETE TO A MINIMUM 3' BELOW FINISHED GRADE.
 3. SEE SECTION 01040 FOR SEQUENCING REQUIREMENTS.
 4. FILL STRUCTURE AS REQUIRED TO ACCOMMODATE FINISHED GRADES PER SPECIFICATION SECTION 02316.
 5. REMOVE GATE AS NOTED, SAMPLING EQUIPMENT, AND ALL RELATED PIPING AND SUPPORTS. REUSE EQUIPMENT AS NOTED. VERIFY WITH OWNER PRIOR TO EQUIPMENT DISPOSAL.
 6. SCALES SHOWN ARE APPROXIMATE. CONDUCT PRE-BID FIELD INSPECTION FOR ADDITIONAL INFORMATION.
 7. PROVIDE COMPLETE ELECTRICAL DEMO. ALL MOTORS, CONTROL PANELS, CONDUIT, AND INSTRUMENTATION NOT SHOWN. CONDUCT PRE-BID FIELD INSPECTION FOR ADDITIONAL INFORMATION.
 8. REMOVE PICKET HANDRAIL AROUND PERIMETER OF STRUCTURE.
 9. REMOVE WOOD SHED. CONDUCT PRE-BID FIELD INSPECTION FOR ADDITIONAL INFORMATION.
 10. APPROXIMATE DIMENSION. LOCATE SHELTER TO ACCOMMODATE HATCH OPENING, PIPE PENETRATIONS, AND MIN 4" EDGE DISTANCE ON ANCHOR BOLTS.
 11. (3301) AROUND OPENING.

TOP PLAN
3/8"=1'-0"

BOTTOM PLAN
3/8"=1'-0"

NOTE:
1. FOR STRUCTURAL NOTES, SEE DRAWINGS 01-G-09 AND 01-G-10.

DSGN	KA MARTIN	NO.	DATE	REVISION	BY	APVD	BRK	AGC	VERIFY SCALE
DR	MJ GABEL								BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	CA GENTRY								0 1"
APVD	RS SHANLEY								IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT



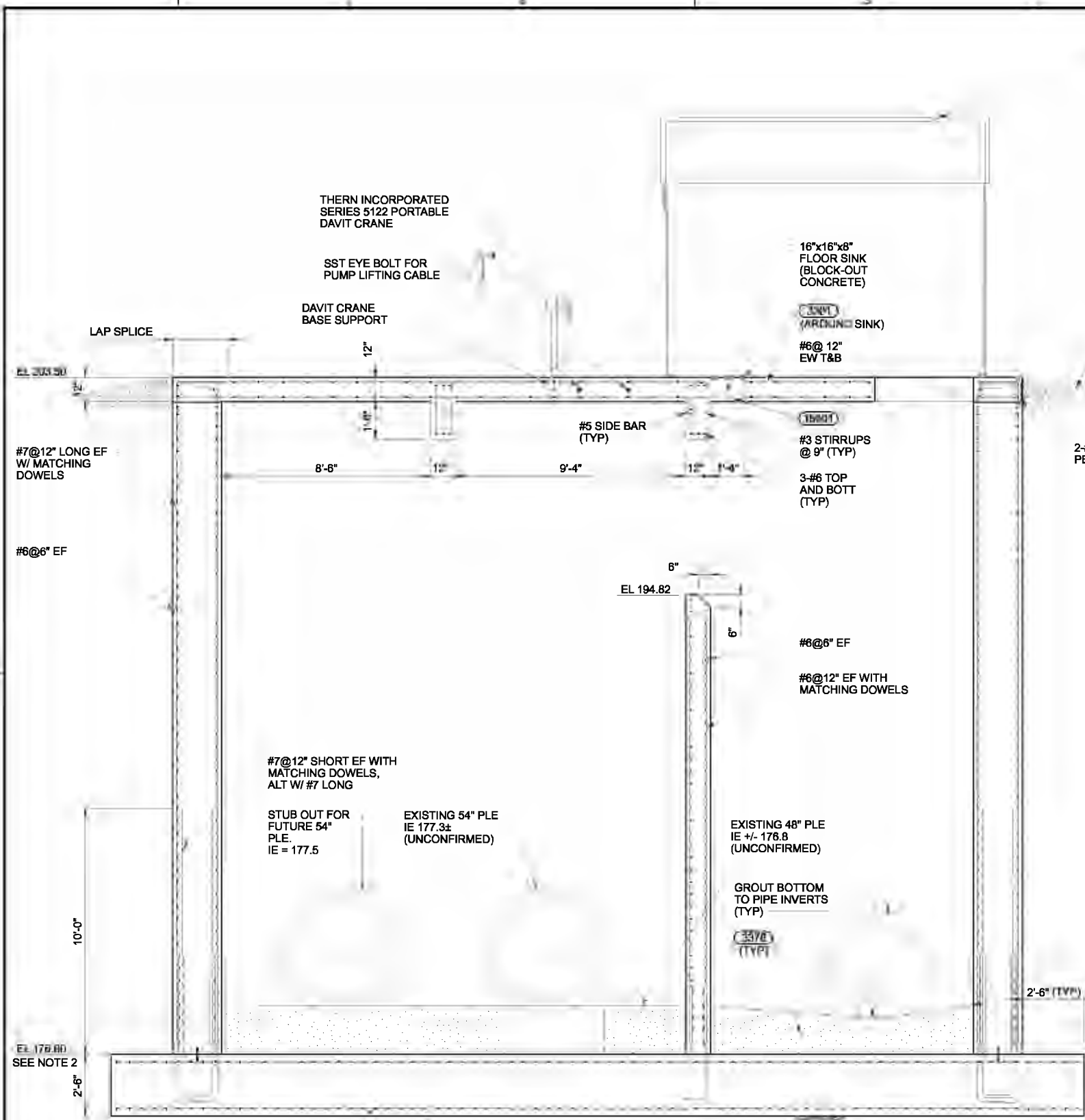
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

FLOW CONTROL STRUCTURE MODIFICATIONS
PLANS

SHEET	199
DWG	07-S-141
DATE	MAY 19 2006
PROJ	326918

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- NOTE:
- SEE SECTION 01040 AND 01050 FOR SEQUENCING REQUIREMENTS.
 - LOWER AS REQUIRED TO CONSTRUCT PIPE WALL PENETRATION AND GATE PER TYP (11281) AND (3324).



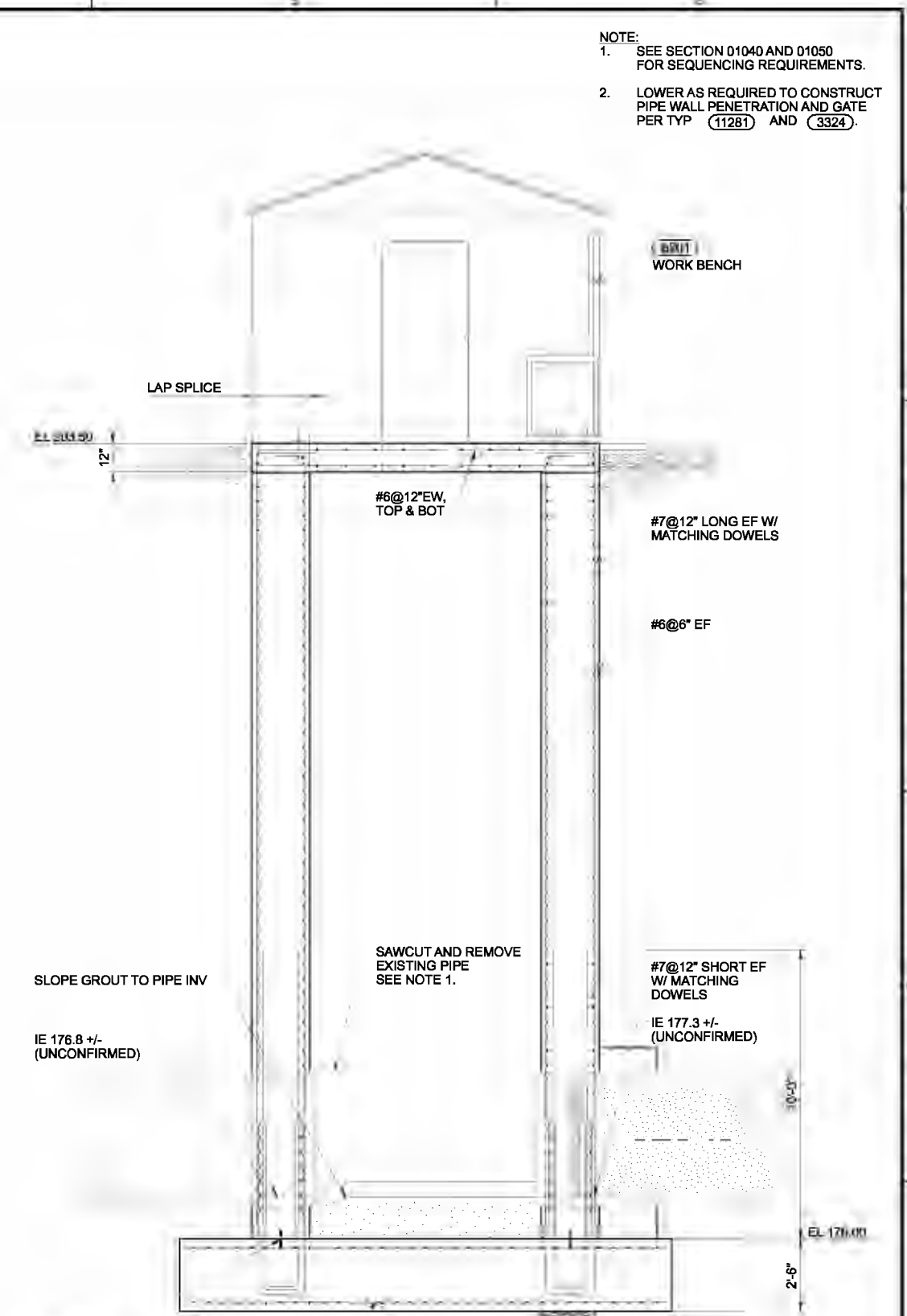
SECTION A
3/8"=1'-0" 07-S-141

12'x13' RELOCATED FROM EXISTING SECONDARY CLARIFIER/CHLORINE CONTACT BASIN NO.2. FOR ADDITIONAL INFORMATION, SEE 07-S-401

SEE DWG 05-CG-102 FOR GRADING CONTOURS

2-#6 EF AROUND PERIMETER OF SLAB

EL 177.50 (TYP)



SECTION B
3/8"=1'-0" 07-S-141

DSGN	KA MARTIN	NO.	DATE	REVISION	BY	APVD	BRK	AGC	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	MJ GABEL								
CHK	CA GENTRY								
APVD	RS SHANLEY								

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

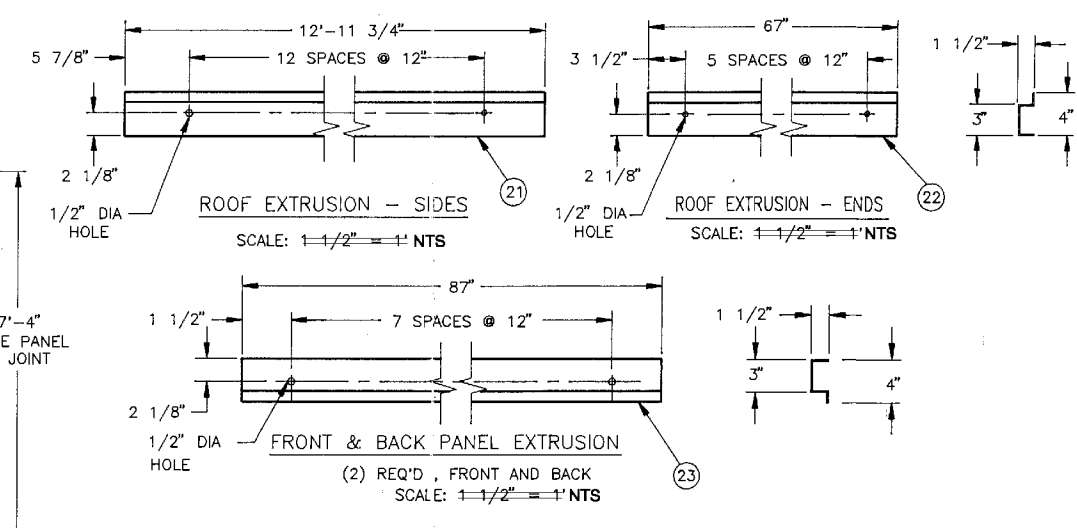
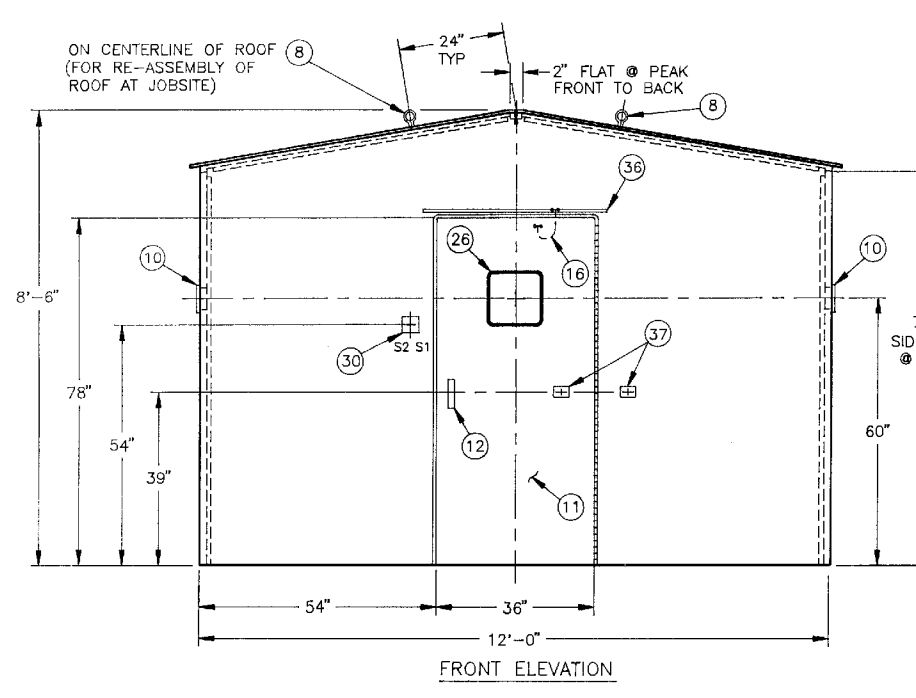
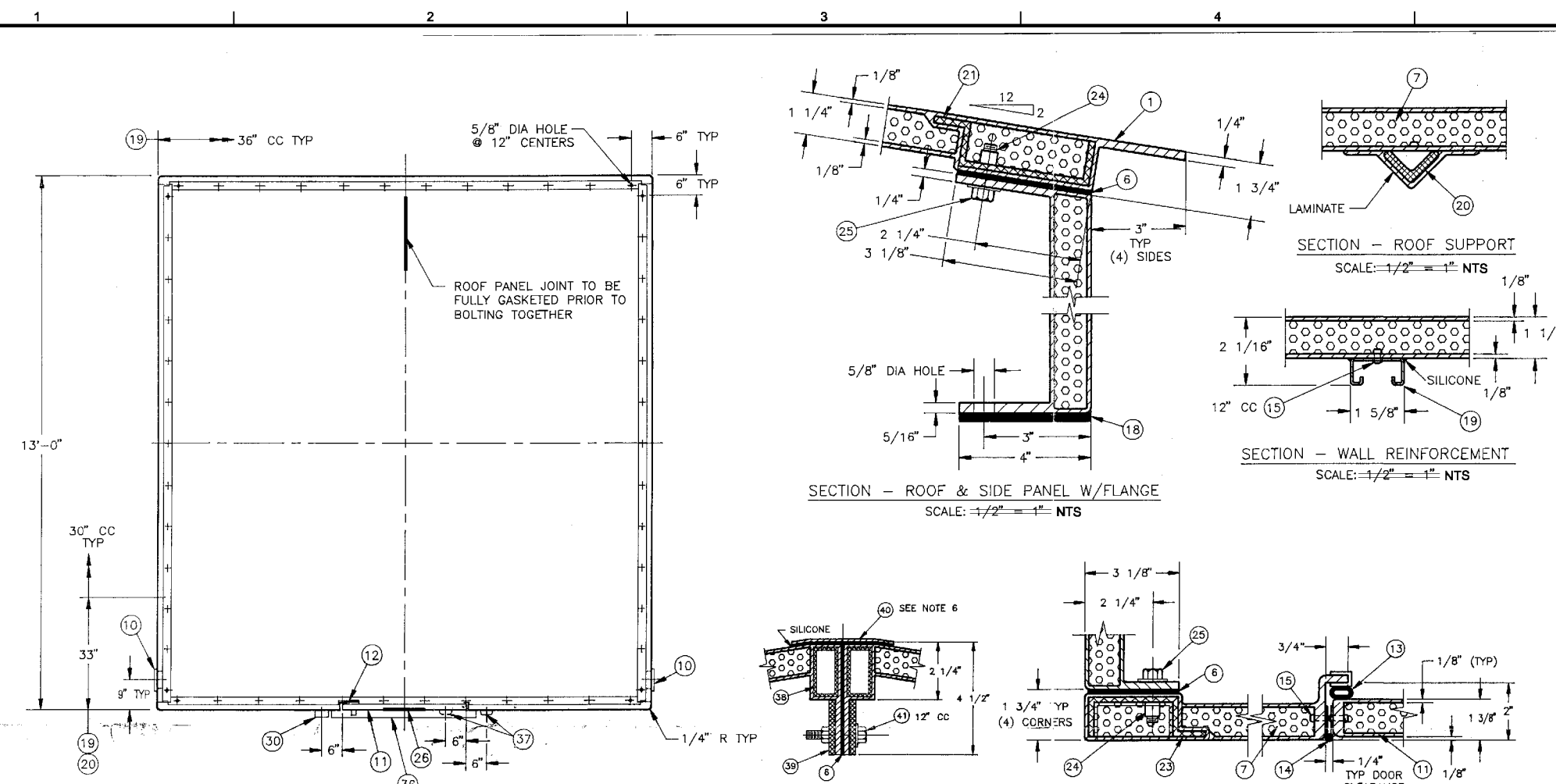


WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

FLOW CONTROL STRUCTURE MODIFICATIONS
SECTIONS

SHEET	200
DWG	07-S-201
DATE	MAY 19 2006
PROJ	326918

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BILL OF MATERIAL		
ITEM	QTY	DESCRIPTION
1	2	ROOF PANEL - MOLDED FIBERGLASS CONSTRUCTION
2	1	SIDE PANEL R.H. - MOLDED FIBERGLASS CONSTRUCTION
3	1	SIDE PANEL L.H. - MOLDED FIBERGLASS CONSTRUCTION
4	1	FRONT PANEL - MOLDED FIBERGLASS CONSTRUCTION
5	1	BACK PANEL - MOLDED FIBERGLASS CONSTRUCTION
6	AR	JOINT GASKET - 3" X 1/4" POLYURETHANE SPONGE
7	AR	INSULATION - 1" THK RIGID POLYISOCYANURATE FOAM
8	2	LIFTING EYE BOLT - 3/4-10 NC CADMIUM PLATED, BOLTED THRU
9	-	LIFTING EYE BOLT SUPPORT - STL. 6" X 2" X 1" ENCAPSULATED
10	2	LOUVRE - 6" DIA PVC W/SCREEN MANUALLY ADJUSTABLE
11	1	DOOR - FIBERGLASS 36" W X 78" H
12	1	DOOR LATCH - 3 POINT EBERHARD #5647 W/PADLOCKABLE S.S. HANDLE
13	AR	DOOR GASKET - NEOPRENE HOLLOW BULB TRIM SEAL # 4100-1/4" OR =
14	1	DOOR HINGE - S.S. 2 1/2" OPEN PIANO TYPE 6" LG
15	AR	FASTENER - POP RIVET #AD610 B.S.
16	1	DOOR STOP CHAIN & SPRING ASSEMBLY PLATED
17	AR	DOOR & FRAME REINFORCEMENT - ENCAPSULATED
18	AR	FLOOR GASKET - 4" X 1/4" NEOPRENE SPONGE
19	11	WALL REINFORCEMENT - MTG CHANNEL, GALV. STL. POWER-STRUT #PS-500, W/(2) 3/8" CLAMPING NUT & SPRING ASSY, POWER-STRUT #PS-8SS
20	4	ROOF SUPPORT STL ANGLE 1 1/2" X 1 1/2" X 1/4" X67" ENCAPSULATED
21	2	ROOF PANEL - ALUMINUM EXTRUSION - SIDE
22	4	ROOF PANEL - ALUMINUM EXTRUSION - END
23	4	FRONT & BACK PANEL - ALUMINUM EXTRUSION
24	AR	NUTSERTS - WIDE FLANGE #9444-1233 3/8-16 NC ALUMINUM
25	AR	HEX HD BOLT - S.S. 3/8-16 NC X 1 1/4" LG W/WASHER - 3/8" ID
26	1	DOOR WINDOW - SAFETY GLASS 12" X 12" X 1/4" W/GASKET
27	1	HEATER - PUMP HOUSE, 500 WATTS W/THERMOSTAT
28	3	PENDANT MOUNTED 48" FLUORESCENT FIXTURES Δ
29	2	Δ DUPLEX OUTLET IN PVC BOX W/GASKETED FLIP COVERS
30	1	DUPLEX WEATHERPROOF SWITCHBOX/2 TOGGLE,BELL#216-2 & 276-3 OR =
31	1	DUAL AXIAL EXHAUST FAN (2) 240 CFM 6" DIA DAYTON #4C720 - CORD SET #4C552 & WIRE GUARD (2) #4C741 (MOUNTED ON 1/4" FRP PLATE) W/FRP SHUTTER DAYTON #5C211 & SCREENED FRP CANOPY
32	1	FAN THERMCSTAT SPST ADJ. 30' TO 110' F DAYTON #2E728
33	1	LOUVRE - 12" X 12" PVC FIXED OPEN W/SCREEN & GRAVITY SHUTTER DAYTON #5C211
34	1	CIRCUIT BREAKER LOAD CENTER- 12 SPACE 120/208V 3 PHASE 125 AMP MAIN LUGS ONLY, W/B 1-POLE BRANCH BREAKERS SQUARE D CUTLER-HAM. I.R. OR = Δ
35	YES	SPECIAL COLOR - TO BE SELECTED
36	1	RAIN VISOR 42" WIDE FRP
37	1	DOOR HOLDER W/SPRING STOP - STAINLESS STEEL - HANSEN #29-45 (32818668)
38	2	STEEL TUBE - 1/8" X 2" X 1" X 12'-11 1/2" LG ENCAPSULATED
39	2	FLAT BAR - STAINLESS STEEL 1/4" X 2" X 12'-6" LG
40	1	FIBERGLASS CAPPING STRIP - 1/8" X 4 1/8" X 13'-6" LG
41	AR	3/8-16NC X 2" HEX HD BOLT, HEX NUT & FW (2) STAINLESS STEEL
42	2	3' X 3' SKYLIGHT - REMOVABLE Δ
43	1	STEP DOWN TRANSFORMER- 3 PHASE 480V PRIMARY 120/208V SECONDARY Δ
44	1	TERMINAL BOX FOR 480V 3 PHASE FEEDER NEMA 1 Δ

- * CUSTOMER PROVIDE LOCATION
- NOTES:
1. EXTERIOR SURFACE - SMOOTH GEL-COATED FINISH W/COLOR MOLDED IN
 2. THERMAL RESISTANCE RATING R=7
 3. WIND LOADING RESISTANCE 125 MPH
 4. STATIC ROOF LOADING RESISTANCE 30 LBS PER SQ FT
 5. FLOOR GASKET - ITEM #18, SHIPPED WITH BUILDING, FIELD INSTALLED
 6. APPROX TOTAL NET WEIGHT - 1810 LBS
 7. AFTER ROOF SECTIONS ARE BOLTED TOGETHER ON TOP OUTSIDE OF ROOF, USE RTV SILICONE AND GENEROUSLY CAULK ALONG THE JOINT ON THE CENTER OF THE ROOF; WHILE THE RTV IS STILL PLYABLE, SET 1/8" X 4 1/8" CAPPING STRIP ITEM #40 ON TOP TO COVER JOINT END TO END; THEN CAULK BOTH SIDES FULL LENGTH OF STRIP AS NECESSARY AND SMOOTH TO AN EVEN BEAD WITH TONGUE BLADE OR FINGER
- QTY: ONE
 SIZE: 12'-0" W X 13'-0" D
 COLOR: TO BE SELECTED
 PO#: 2000-03-13

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY RICHARD S. SHANLEY STATE OF OREGON, P.E. NO. 18,933.

DSGN	M KATALINICH	NO.	DATE	REVISION	BRK	AGC	APVD
DR	MJ GABEL						
CHK	TR TEKIPPE						
APVD	RS SHANLEY						
(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)							
AS-BUILT							
VERIFY SCALE							
BAR IS ONE INCH ON ORIGINAL DRAWING.							
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.							

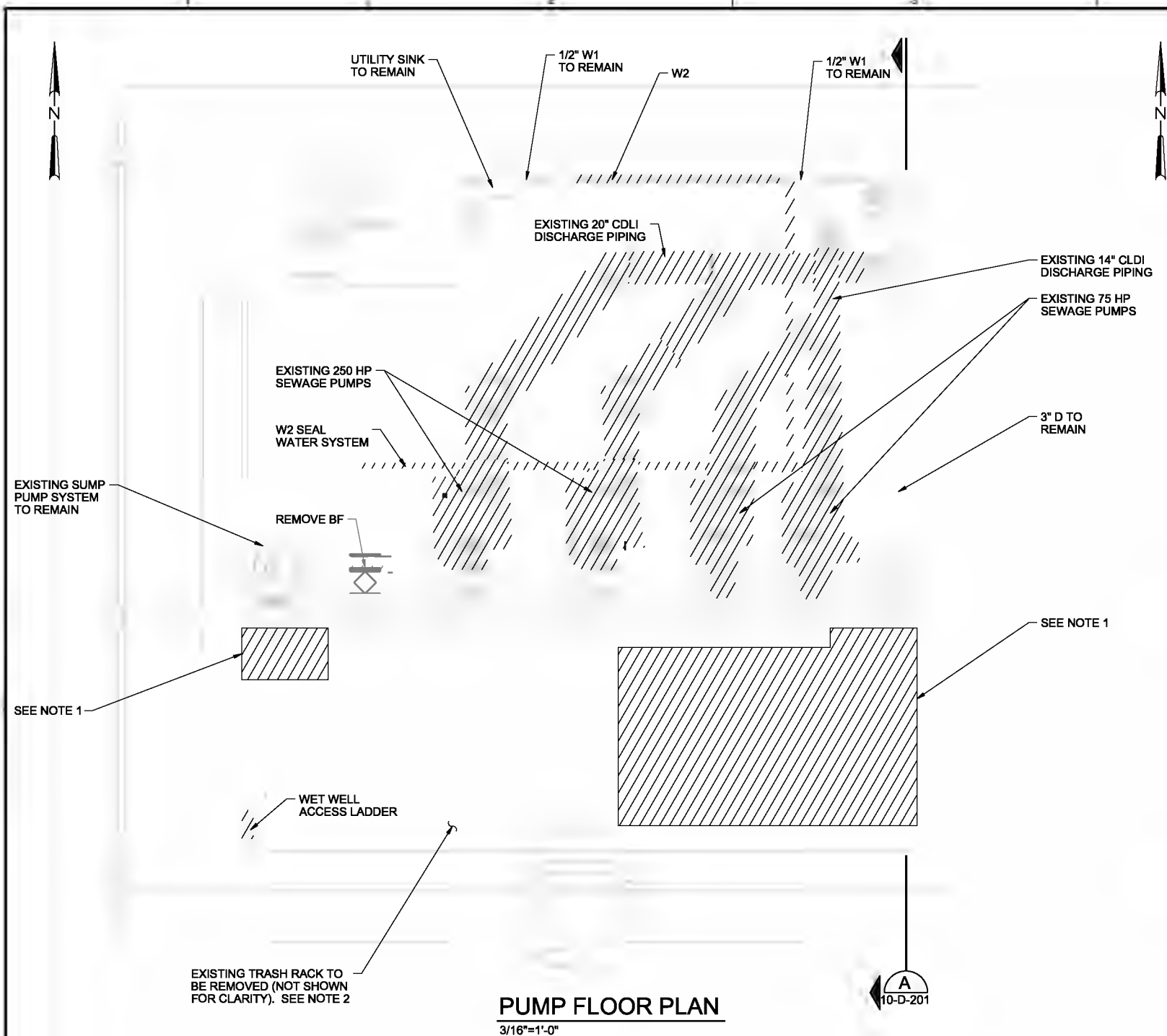


WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

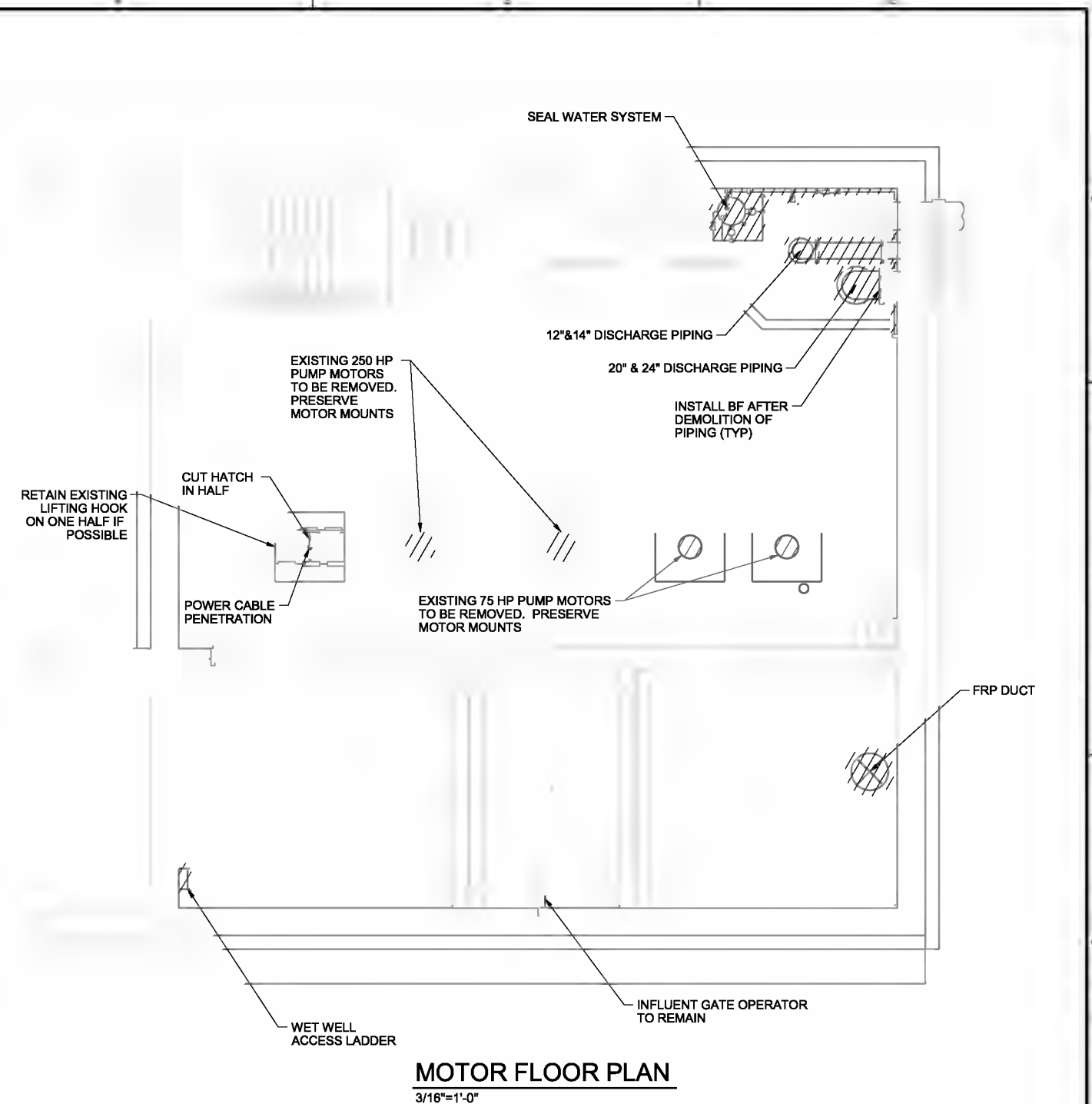
FLOW CONTROL STRUCTURE MODIFICATIONS
 EXISTING FRP SHELTER
 DETAILS

SHEET	201
DWG	07-S-401
DATE	MAY 19 2006
PROJ	326918

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PUMP FLOOR PLAN
3/16"=1'-0"



MOTOR FLOOR PLAN
3/16"=1'-0"

- NOTES:**
1. REINFORCED GROUT SHALL BE REMOVED AS NECESSARY TO ACCOMMODATE SUBMERSIBLE PUMPS. SURFACE PREPARATION SHALL BE AS SPECIFIED IN STRUCTURAL DWGS.
 2. HORIZONTAL TRASH RACK COVERS ENTIRE FOOTPRINT OF WET WELL (17'-3"x52'-0"). TOP OF RACK AT APPROXIMATE ELEVATION OF 165.0. SEE DWG 10-D-201 FOR DETAILS.
 3. NOT ALL EQUIPMENT, PIPING, CONDUITS SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATIONS FOR ALL EXISTING APPURTENANCES. EXISTING PIPING, EQUIPMENT, VALVES NOT TO BE REMOVED SHALL BE FULLY PROTECTED DURING DEMOLITION WORK.
 4. NO LIVE PIPING, CONDUITS, SHALL BE DISCONNECTED PRIOR TO ENGINEER'S APPROVAL.
 5. CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF ALL DEBRIS AND SEDIMENT ACCUMULATED IN THE WET WELL AND CLEAN THE ENTIRE WET WELL WITH A PRESSURE WASHER TO REMOVE ALL GREASE AND SEDIMENT.

6. CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING PUMPS AND MOTORS. NO SALVAGE EFFORT IS REQUIRED.
7. ALL METAL ANCHORS, REBAR, NAD APPURTENANCES REMAINING IN THE WET WELL SHALL BE BURNED OUT/REMOVED TO A MINIMUM DEPTH OF 2". FILL HOLE WITH EPOXY GROUT.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY BRIAN N. CASEY, STATE OF OREGON, P.E. NO. 73,447.

DESIGN	BC CASEY								
DR	M. GADE								
CHK	D. TRAL	01/20/10							
APPROV	RS SHAWLEY	NO.	DATE	REVISION	BY	APPROV			

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

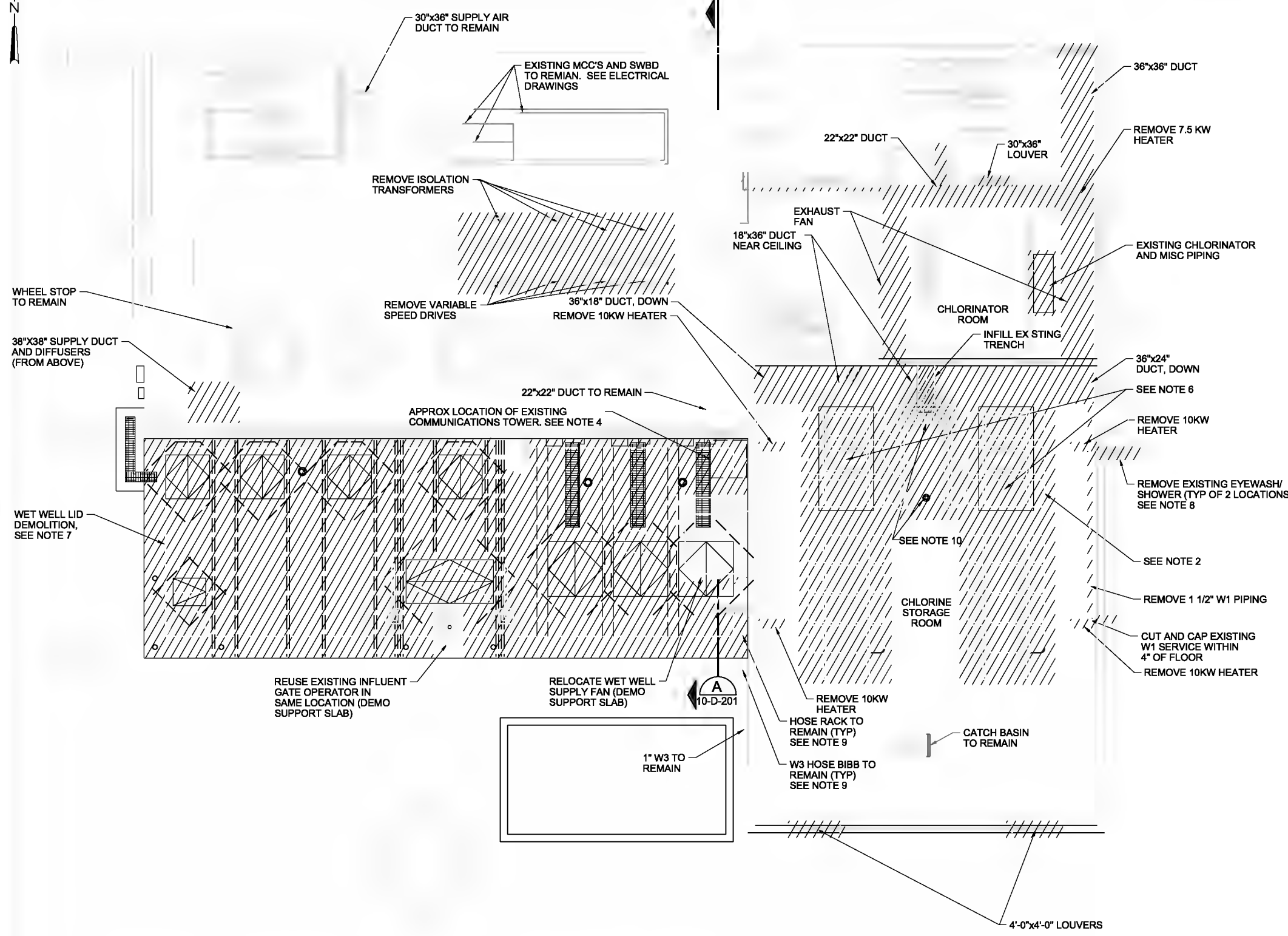
VERIFY SCALE
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0" = 1"
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INFLUENT PUMP STATION
DEMOLITION
PUMP FLOOR DEMOLITION PLAN

SHEET	202
DWG	10-D-131
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
- SEE NOTES 3 AND 4 ON DWG 10-D-131.
 - CHLORINE GAS CYLINDERS TO BE REMOVED BY OTHERS. COORDINATE SEQUENCING WITH ENGINEER.
 - DEMOLISH ALL HVAC EQUIPMENT IN CHLORINE STORAGE AND CHLORINATOR RMS.
 - REMOVE 40 FOOT TALL TOWER FOR DEMOLITION AND RECONSTRUCTION OF WET WELL TOP SLAB. PROTECT 3 ANTENNAS INSTALLED ON TOWER. CONTRACTOR TO SECURELY STORE TOWER AND ANTENNAS PRIOR TO REINSTALLATION. COORDINATE THIS WORK WITH CITY. CONTRACTOR TO REINSTALL TOWER AT SAME LOCATION ONCE WET WELL TOP SLAB IS COMPLETE. SUPPORTS AND ANCHORS FOR TOWER AND ANTENNAS SHALL MATCH PRE-EXISTING CONDITIONS.
 - DEMOLITION OF ELECTRICAL EQUIPMENT SHALL INCLUDE REMOVAL OF ALL WIRING AND CONDUITS.
 - EACH CHLORINE GAS FEED AREA CONSISTS OF A 5'-0" x 9'-8"x1'-6" TALL EQUIPMENT PAD OVER A LOAD CELL AND INCLUDES TRUNNIONS AND MISC PIPING (TYP OF 2 AREAS). ALL TO BE REMOVED.
 - REMOVE WET WELL TOP SLAB TO ACCOMMODATE NEW SLAB. SEE STRUCTURAL DRAWINGS. PRIOR TO REMOVING EXIST SLAB, BRACE TOP OF EXIST WALLS TO RESIST FORCE OF 8000 LBS PER HORIZ FOOT OF WALL. MAX BRACE SPACING SHALL NOT EXCEED 5'-0". MAX BEARING PRESSURE OF BRACE END PLATE SHALL NOT EXCEED 1400 PSI.
 - REMOVE PIPE THROUGH WALL AND FILL WITH NON-SHRINK GROUT.
 - REPLACE IF DAMAGED DURING CONSTRUCTION.
 - PROTECT AND MAINTAIN EXISTING TRENCH AND FLOOR DRAIN.

GROUND FLOOR PLAN
3/16"=1'-0"

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DESIGN	BM CASEY				
DR	M. GADE				
CHK	D. TRAL	01/20/10			
APVD	RS BRADLEY	NO.	DATE	REVISION	BY

VERIFY SCALE
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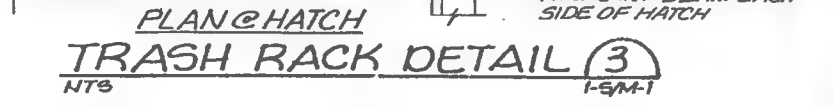
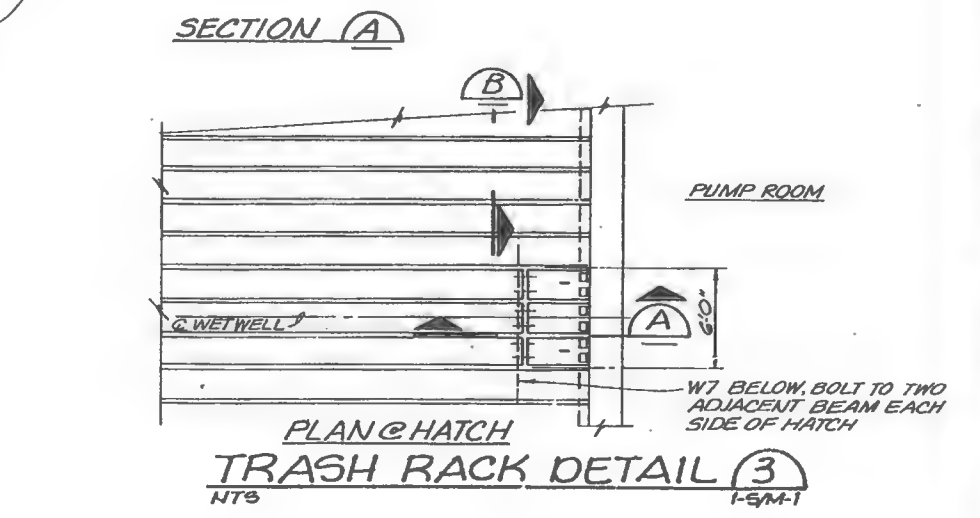
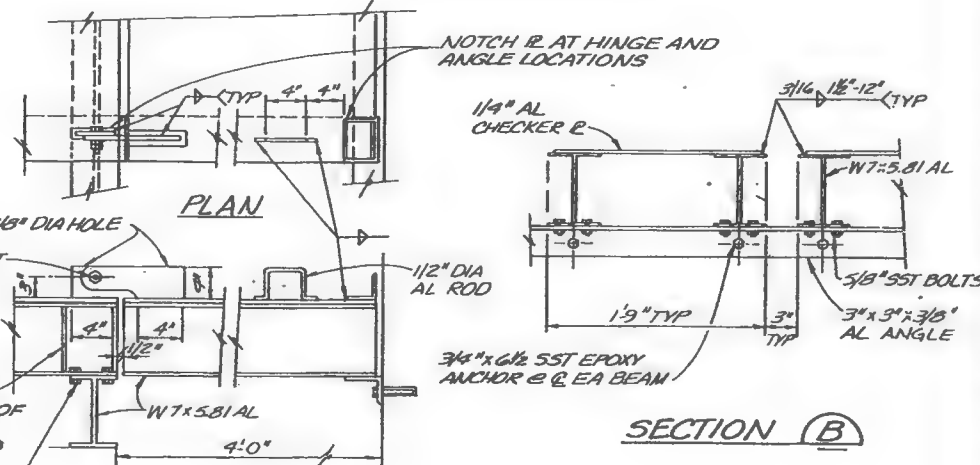
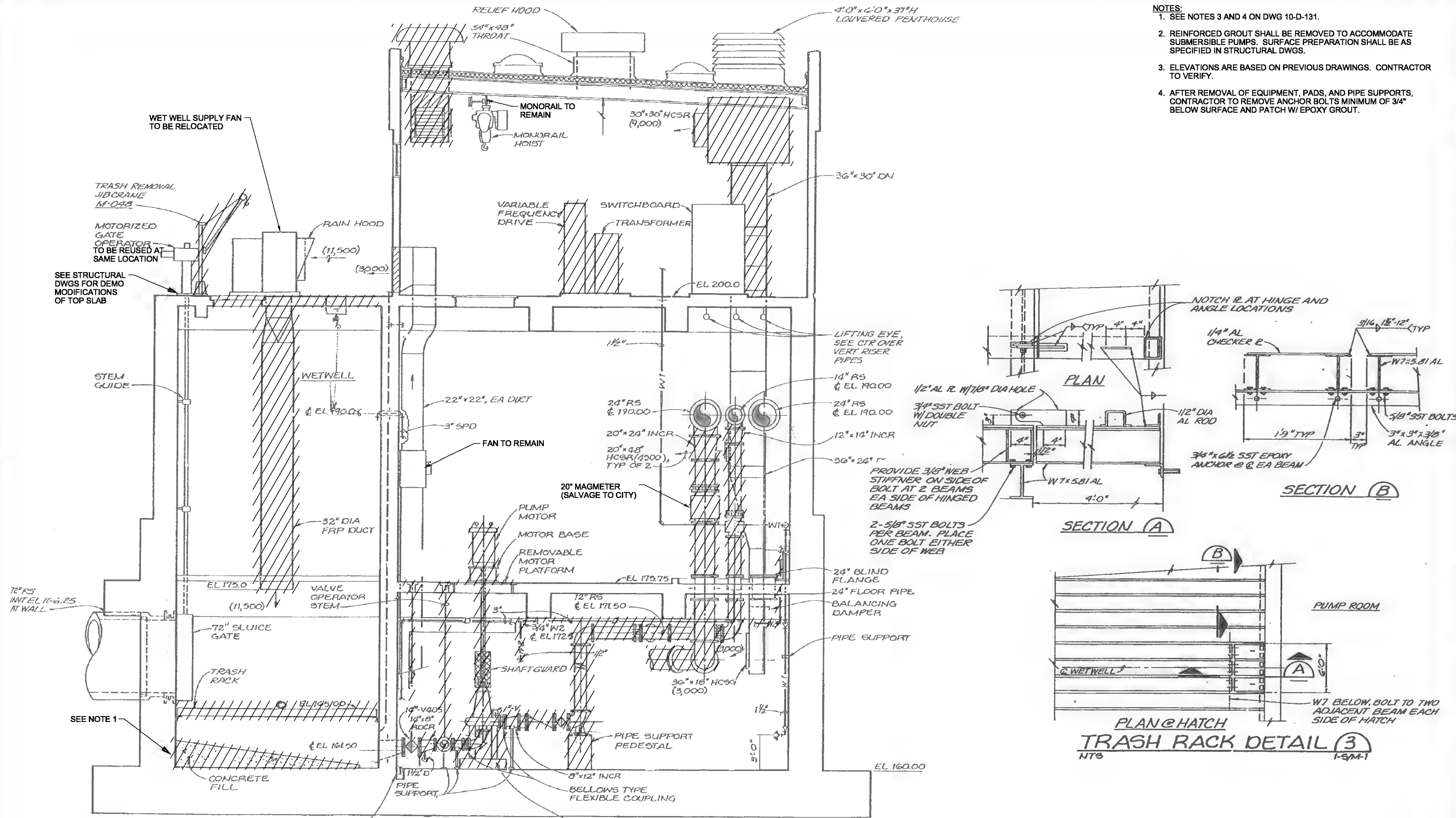
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INFLUENT PUMP STATION
DEMOLITION
GROUND FLOOR DEMOLITION PLAN

SHEET	203
DWG	10-D-141
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
- SEE NOTES 3 AND 4 ON DWG 10-D-131.
 - REINFORCED GROUT SHALL BE REMOVED TO ACCOMMODATE SUBMERSIBLE PUMPS. SURFACE PREPARATION SHALL BE AS SPECIFIED IN STRUCTURAL DWGS.
 - ELEVATIONS ARE BASED ON PREVIOUS DRAWINGS. CONTRACTOR TO VERIFY.
 - AFTER REMOVAL OF EQUIPMENT, PADS, AND PIPE SUPPORTS, CONTRACTOR TO REMOVE ANCHOR BOLTS MINIMUM OF 3/4" BELOW SURFACE AND PATCH W/ EPOXY GROUT.



SECTION A
1/4"=1'-0"±
10-D-131
10-D-141

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DSGN	BM CASEY				
DR	MJ GABEL				
CHK	D TSAI	01/22/10			
APVD	RS SHANLEY	NO.	DATE	REVISION	BY

VERIFY SCALE
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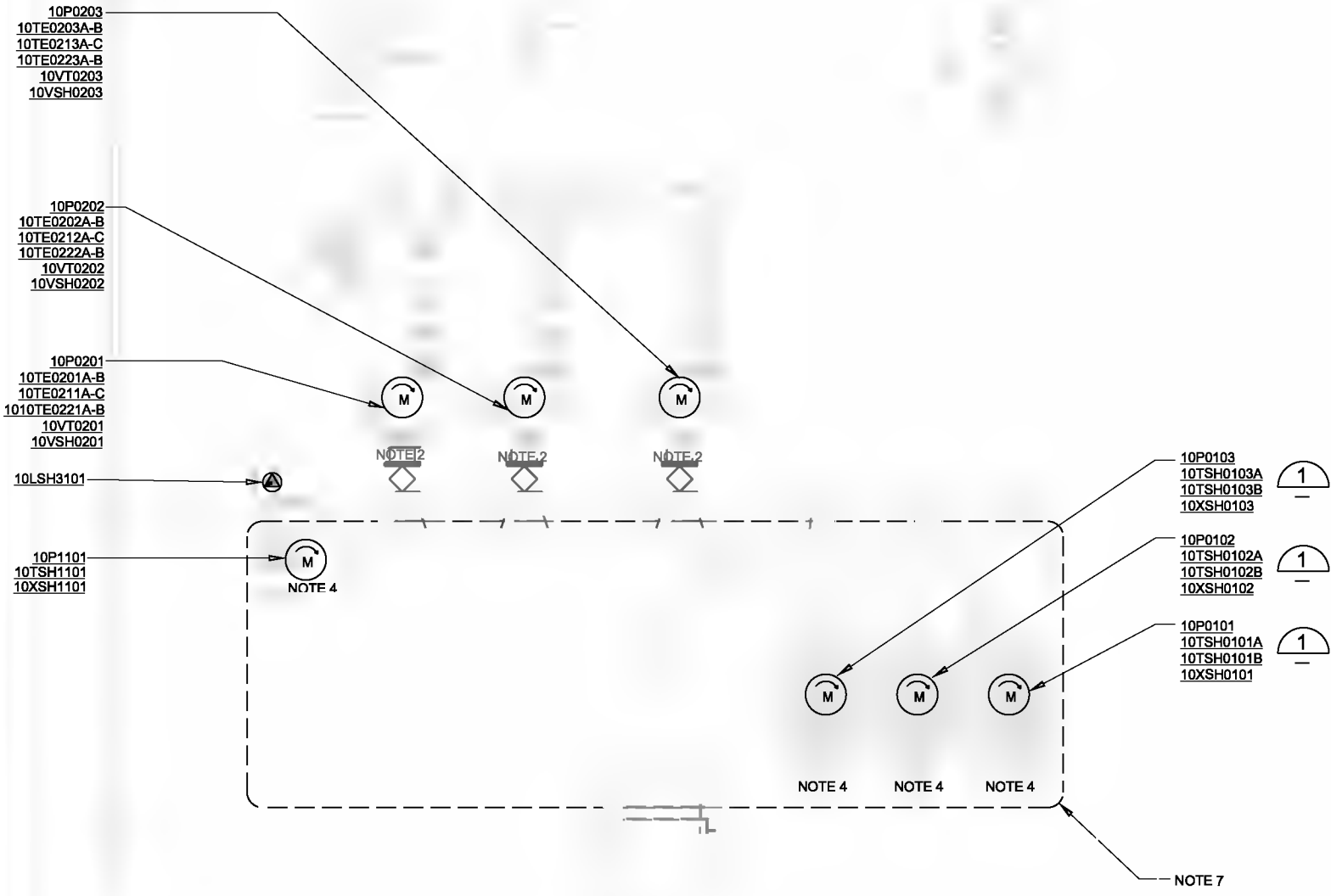
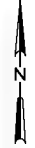


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

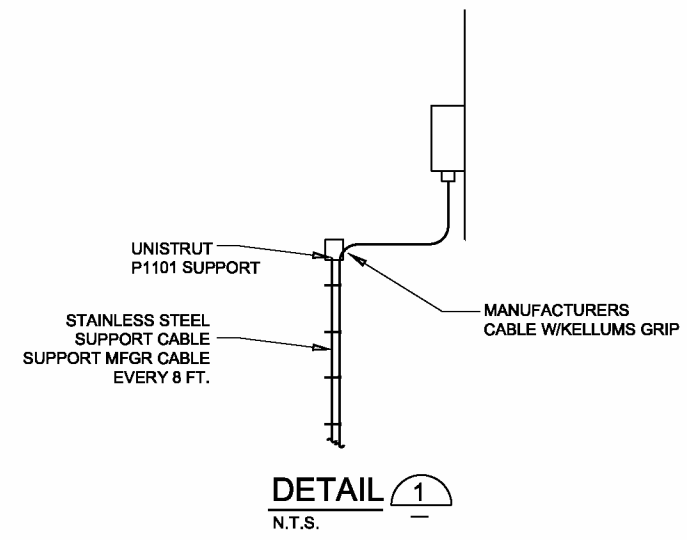
INFLUENT PUMP STATION
DEMOLITION
SECTION

SHEET	204
DWG	10-D-201
DATE	MAY 19 2006
PROJ	326918

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- NOTES:**
1. FE/FIT3011 IS LOCATED IN THE HEADWORKS. SEE 20-E SERIES DRAWINGS.
 2. ROUTE MANUFACTURER SUPPLIED CABLES THROUGH EXISTING HOLE IN CEILING AND CONNECT AT NEW NEMA 4X TERMINATION BOXES (1 POWER/1 CONTROL) ON MOTOR FLOOR. PROVIDE KELLUMS GRIPS FOR ALL CABLES.
 3. FIELD ROUTE CONDUITS PER RISER DIAGRAMS.
 4. RUN MANUFACTURER SUPPLIED CABLE TO PLUG DISCONNECT AT GROUND LEVEL.
 5. DIGITAL CONTROL CIRCUITS MAY BE COMBINED ON THIS SHEET ONLY.
 6. ANALOG CONTROL CIRCUITS MAY BE COMBINED ON THIS SHEET ONLY.
 7. THE STRUCTURE IS A CLASS I, DIVISION 2, GROUP D AREA WITHIN THE ENVELOPE SHOWN. ALL EQUIPMENT WITHIN THE ENVELOPE SHALL BE RATED FOR USE IN THIS AREA CLASSIFICATION AND SHALL CONFORM TO THE SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE.

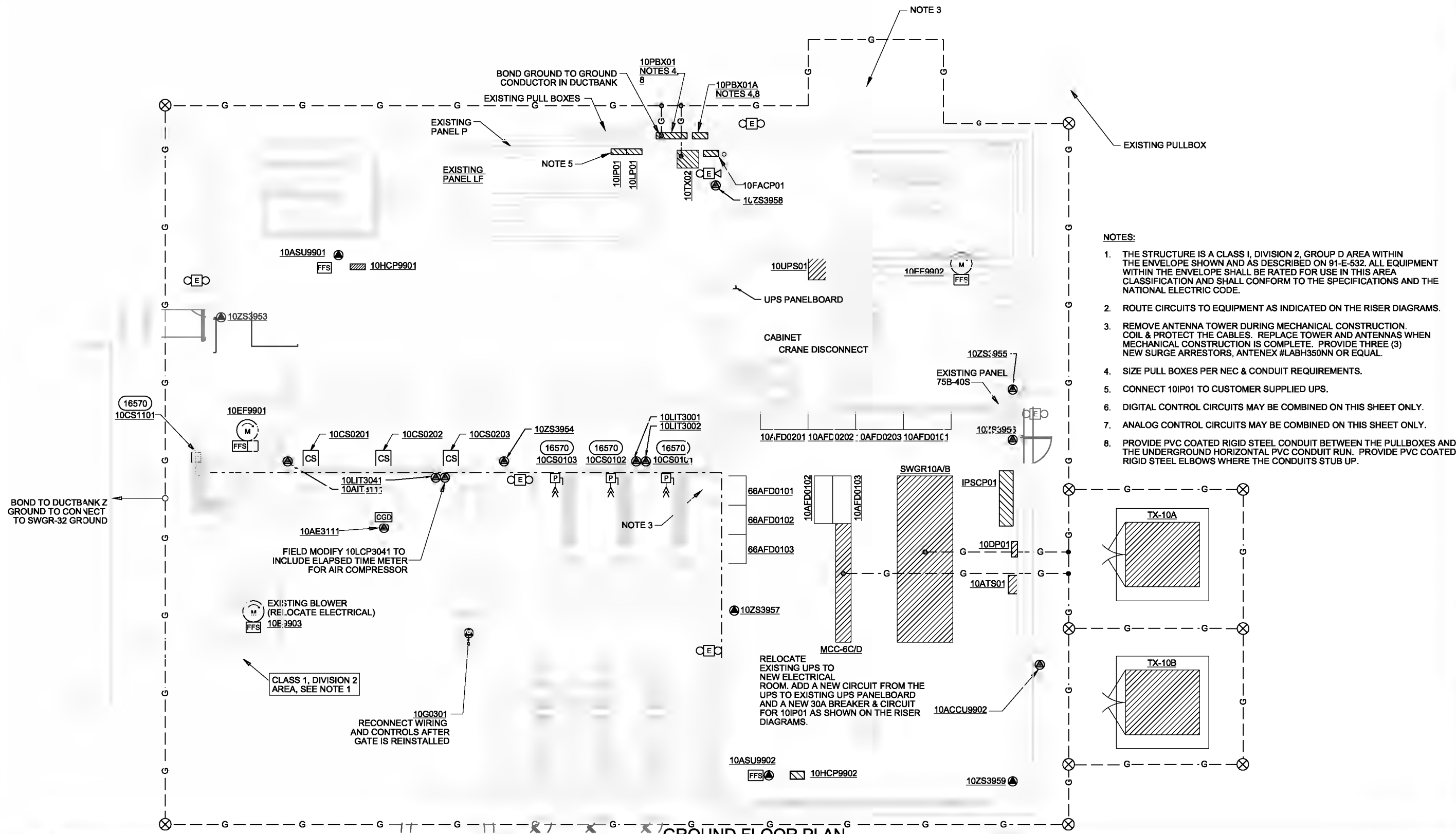
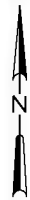


PUMP FLOOR PLAN
3/16"=1'-0"

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DESIGN	BR RUCHENS	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	DATE	01/20/06	BY	ARVD	CH2MHILL carollo engineers	CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON	INFLUENT PUMP STATION PUMP FLOOR PLAN	SHEET	205
DR	RB CAVE		SCALE	AS-BUILT	GPW	KLM				DWG	10-E-131
CHECK	EJ DIBBOS		DATE	01/20/06	BY	ARVD				DATE	MAY 19 2006
APP'D	RS SHAWLEY		DATE	01/20/06	BY	ARVD				PROJ	326918

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- NOTES:**
1. THE STRUCTURE IS A CLASS 1, DIVISION 2, GROUP D AREA WITHIN THE ENVELOPE SHOWN AND AS DESCRIBED ON 91-E-532. ALL EQUIPMENT WITHIN THE ENVELOPE SHALL BE RATED FOR USE IN THIS AREA CLASSIFICATION AND SHALL CONFORM TO THE SPECIFICATIONS AND THE NATIONAL ELECTRIC CODE.
 2. ROUTE CIRCUITS TO EQUIPMENT AS INDICATED ON THE RISER DIAGRAMS.
 3. REMOVE ANTENNA TOWER DURING MECHANICAL CONSTRUCTION. COIL & PROTECT THE CABLES. REPLACE TOWER AND ANTENNAS WHEN MECHANICAL CONSTRUCTION IS COMPLETE. PROVIDE THREE (3) NEW SURGE ARRESTORS, ANTENEX #LABH350NN OR EQUAL.
 4. SIZE PULL BOXES PER NEC & CONDUIT REQUIREMENTS.
 5. CONNECT 10IP01 TO CUSTOMER SUPPLIED UPS.
 6. DIGITAL CONTROL CIRCUITS MAY BE COMBINED ON THIS SHEET ONLY.
 7. ANALOG CONTROL CIRCUITS MAY BE COMBINED ON THIS SHEET ONLY.
 8. PROVIDE PVC COATED RIGID STEEL CONDUIT BETWEEN THE PULLBOXES AND THE UNDERGROUND HORIZONTAL PVC CONDUIT RUN. PROVIDE PVC COATED RIGID STEEL ELBOWS WHERE THE CONDUITS STUB UP.

GROUND FLOOR PLAN

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DSGN DR RODGERS	NO.	DATE	REVISION	BY	APVD
CHK RUCAVE					
APVD RS SHAMLEY					

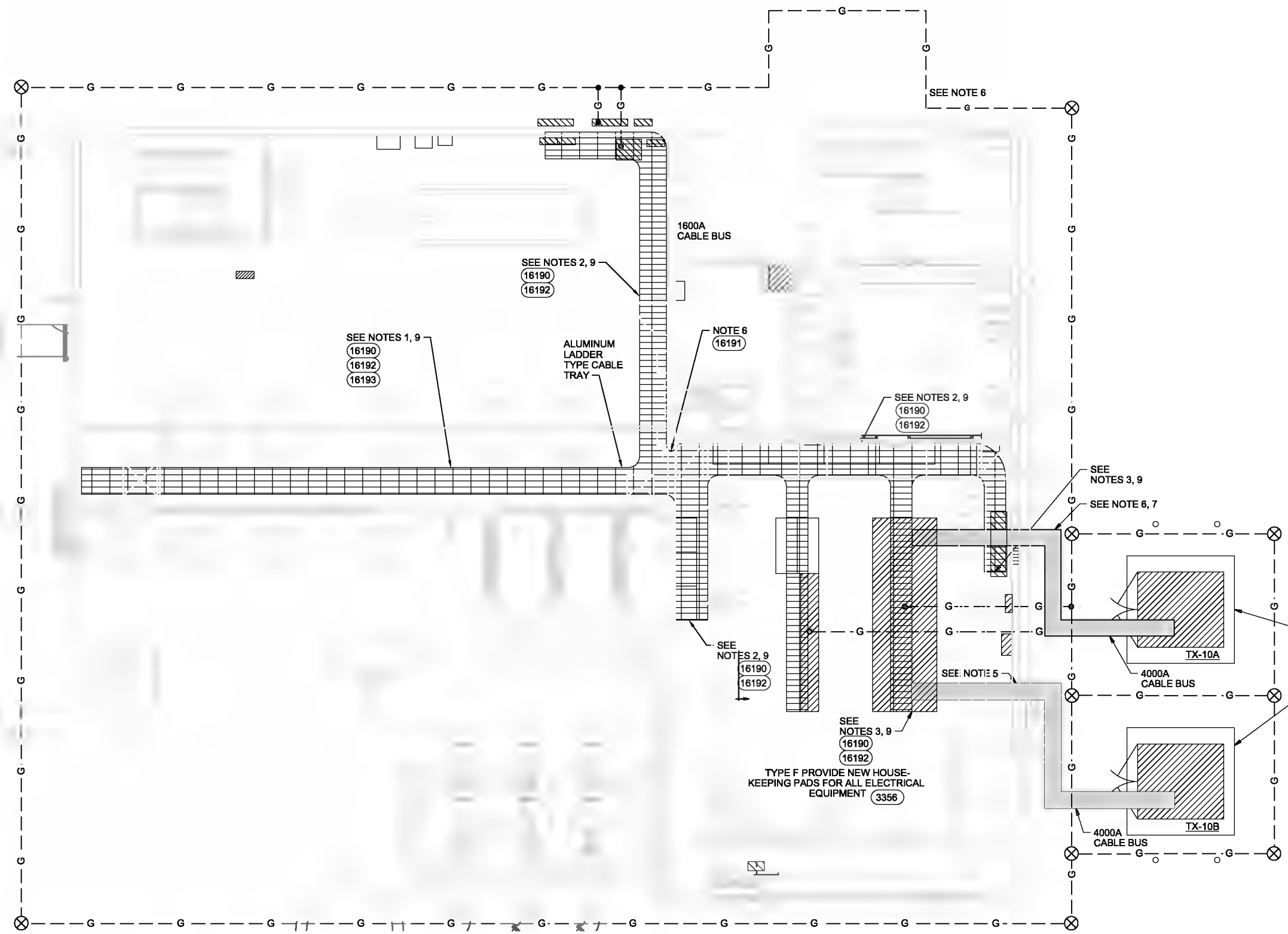
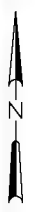


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INFLUENT PUMP STATION
PUMP FLOOR PLAN

SHEET	206
DWG	10-E-141
DATE	MAY 19 2006
PROJ	326918

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- (2080) TYP OF 8
- (16092) TYP OF 2
- (3356) TYPE H TYP OF 2

- NOTES:**
1. PROVIDE 30" WIDE SECTION CABLE TRAY WITH SIDE RAIL HEIGHT OF 9".
 2. PROVIDE 36" WIDE SECTION CABLE TRAY WITH SIDE RAIL HEIGHT OF 9".
 3. PROVIDE 24" WIDE SECTION CABLE TRAY WITH SIDE RAIL HEIGHT OF 9".
 4. TERMINATION BOXES DESIGNED AND SUPPLIED BY CABLE BUS MANUFACTURER.
 5. PROVIDE MP HUSKY TYPE EP WEATHERPROOF SEAL OR EQUAL.
 6. FIELD LOCATE AND AVOID VERTICAL AND HORIZONTAL REBAR. USE MULTIPLE TRAYS IF NECESSARY.
 7. PROVIDE EXPANSION JOINTS.
 8. PROVIDE MP HUSKY TYPE MCT FIRE STOP SEAL OR EQUAL.
 9. PROVIDE BARRIER STRIPS ALONG THE CABLE TRAY TO SEPARATE SIGNAL CABLES FROM POWER AND CONTROL CABLES.
 10. FOR SWBD-2, CABLE BUS ENTERS AT TOP OF THE RIGHT SECTION.
 11. SEE RISER DIAGRAMS FOR ADDITIONAL CLARIFICATION.

GROUND FLOOR PLAN
3/16"=1'-0"

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DSGN	DR RODGERS	NO.	DATE	REVISION	BY	APVD
DR	RL CAVE					
CHK	GL DEBOIS					
APVD	RS SHANLEY					

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1)
AS-BUILT

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

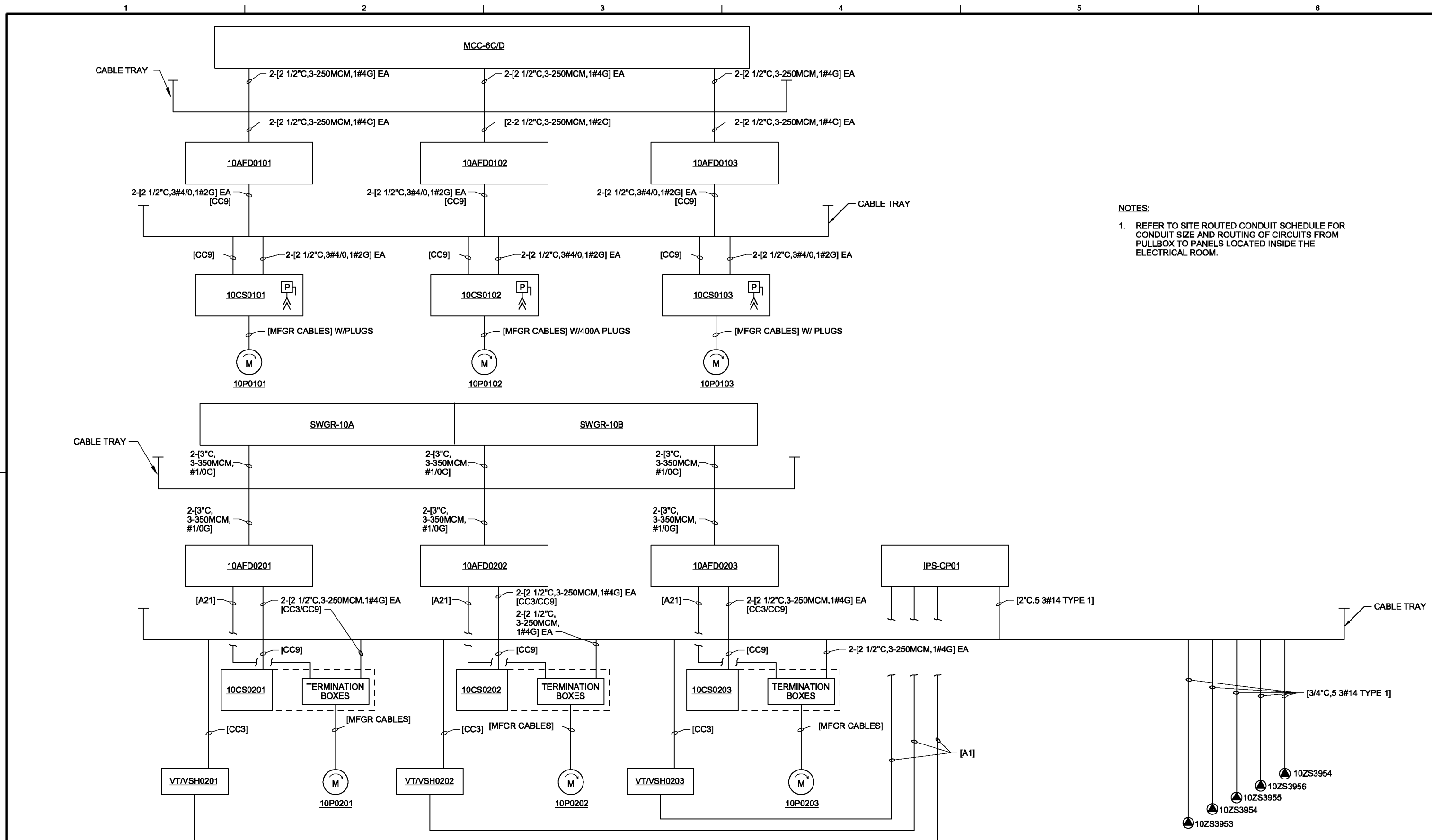


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INFLUENT PUMP STATION
CABLE TRAY & FOUNDATION DETAILS

SHEET	207
DWG	10-E-142
DATE	MAY 19 2006
PROJ	326918

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NOTES:

1. REFER TO SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.

INFLUENT PUMP STATION RISER DIAGRAM

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DSGN	BR RODGERS
DR	RB CAVE
CHK	GJ DeBOIS
APVD	RS SHANLEY

NO.	DATE
	01/20/10

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

GRW	KLM
BY	APVD

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

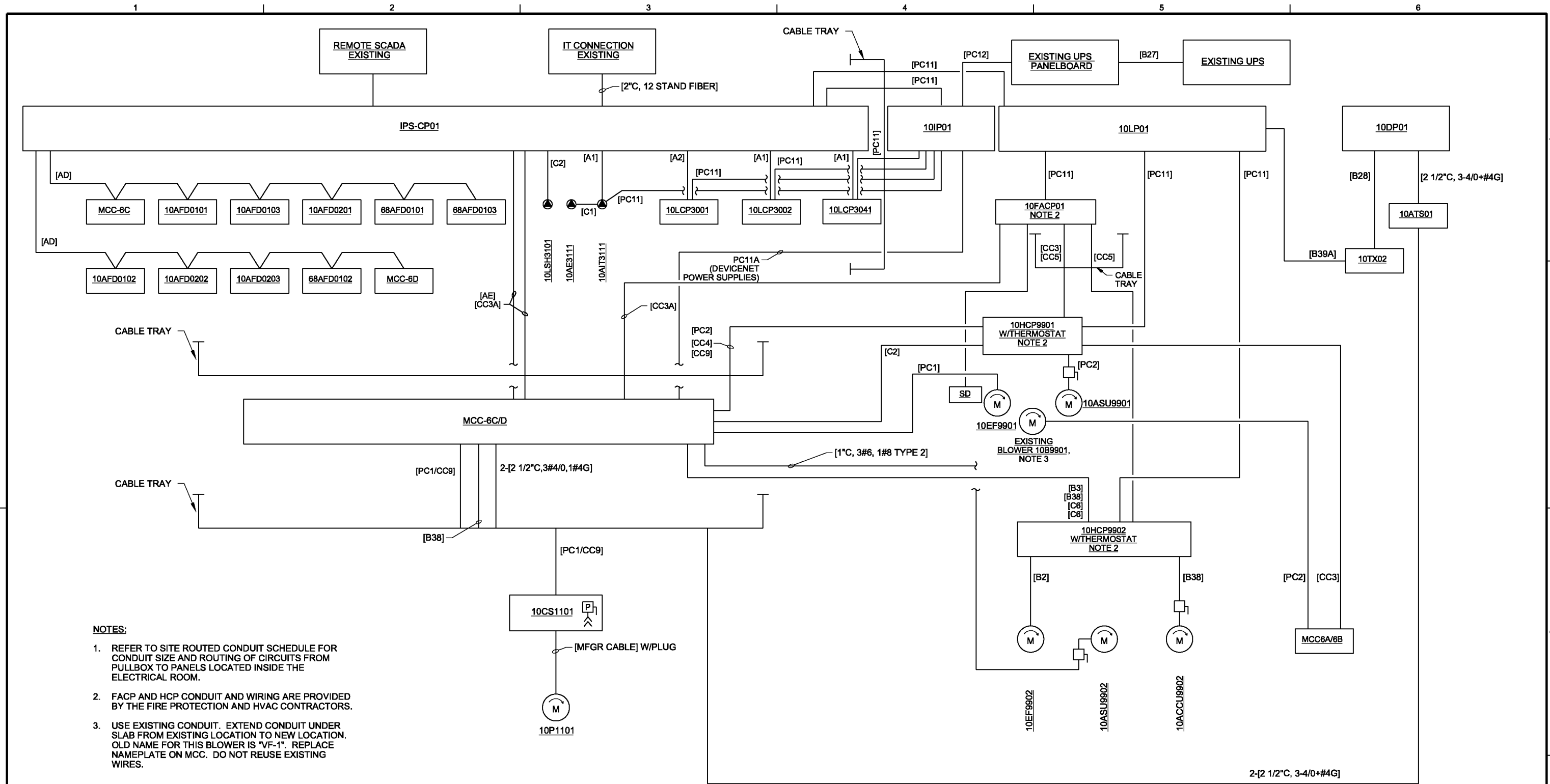


CITY OF ALBANY
 WASTEWATER SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

INFLUENT PUMP STATION
RISER DIAGRAM

SHEET	208
DWG	10-E-501
DATE	MAY 19 2006
PROJ	326918

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NOTES:

1. REFER TO SITE ROUTED CONDUIT SCHEDULE FOR CONDUIT SIZE AND ROUTING OF CIRCUITS FROM PULLBOX TO PANELS LOCATED INSIDE THE ELECTRICAL ROOM.
2. FACP AND HCP CONDUIT AND WIRING ARE PROVIDED BY THE FIRE PROTECTION AND HVAC CONTRACTORS.
3. USE EXISTING CONDUIT. EXTEND CONDUIT UNDER SLAB FROM EXISTING LOCATION TO NEW LOCATION. OLD NAME FOR THIS BLOWER IS "VF-1". REPLACE NAMEPLATE ON MCC. DO NOT REUSE EXISTING WIRES.

INFLUENT PUMP STATION RISER DIAGRAM - MCC-6. DEVICENET, FIRE & HVAC

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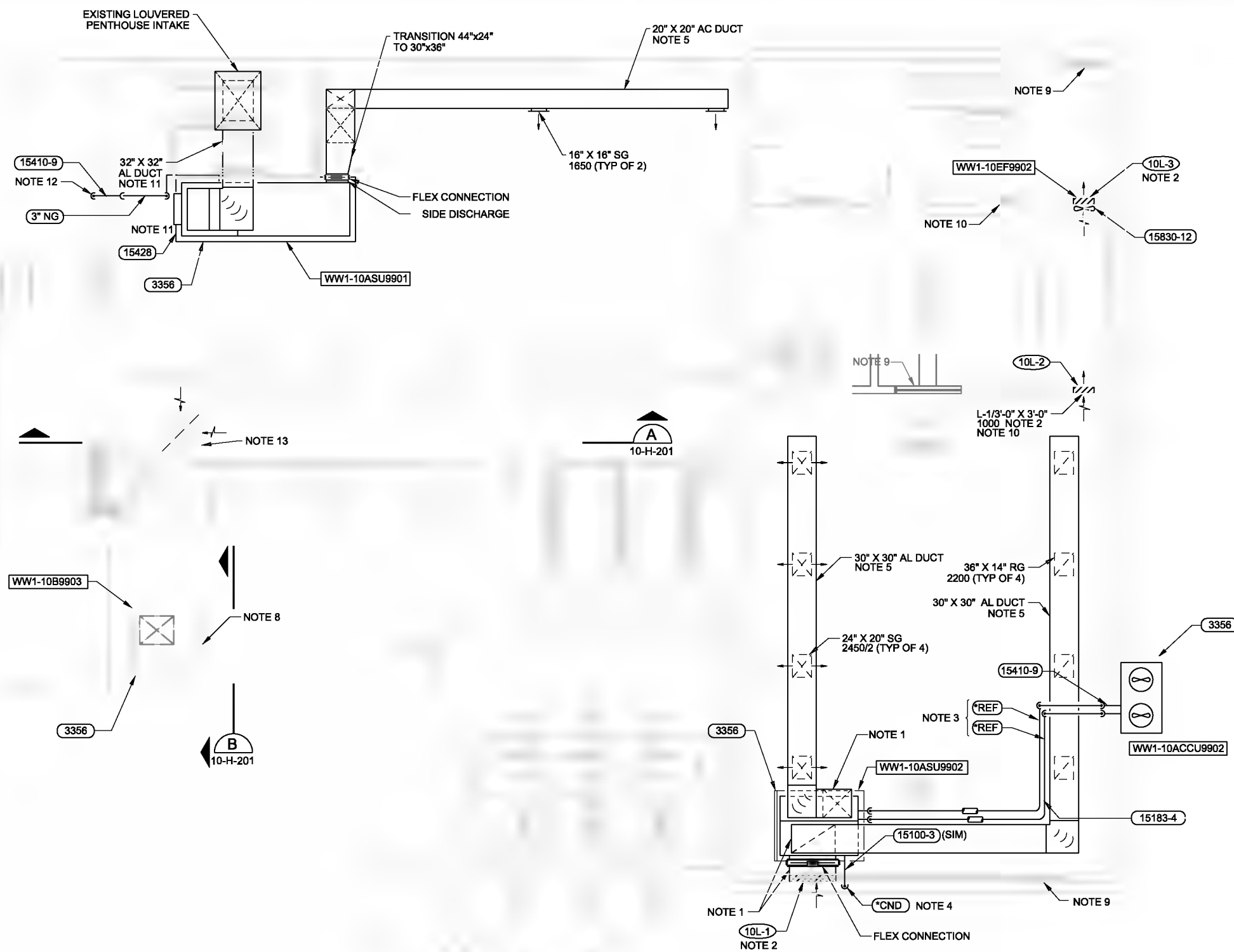
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DR	RB CAVE						BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	GJ DeBOIS						0
APVD	RS SHANLEY						IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INFLUENT PUMP STATION	SHEET	209
RISER DIAGRAM	DWG	10-E-502
	DATE	MAY 19 2006
	PROJ	326916

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- NOTES:**
1. TRANSITION AS NECESSARY TO MATCH EQUIPMENT DIMENSIONS. CONNECT TO EQUIPMENT WITH FLEXIBLE CONNECTION.
 2. MOUNT IN EXISTING WALL PENETRATION. SIZE EQUIPMENT TO MATCH EXISTING WALL OPENING.
 3. SIZE REF PER EQUIPMENT CONNECTION SIZES. INSULATE PER SPECIFICATION.
 4. SIZE CND PER EQUIPMENT MANUFACTURER REQUIREMENTS. PROVIDE TRAPPING, ETC. AS REQUIRED BY CODE AND MANUFACTURER REQUIREMENTS. SLOPE 1/8" PER FT. PENETRATE WALL AND TERMINATE 6" ABOVE GRADE.
 5. MOUNT TOP OF DUCT 1'-6" BELOW ROOF BEAMS.
 6. ROUTE ALL DUCT WORK AND PIPING TO AVOID PASSING OVER ELECTRICAL EQUIPMENT.
 7. WHERE SUPPORTS NOT SHOWN MOUNT PER SPECIFICATION AND SMACNA.
 8. RELOCATE EXISTING BLOWER FROM ORIGINAL LOCATION.
 9. FILL PENETRATION REMAINING FROM EXISTING HVAC DEMO PER 10-S-201.
 10. FILL PENETRATIONS REMAINING FROM EXISTING HVAC DEMOLITION LOCATED PENETRATIONS BELOW LOUVER. SEE NOTE 9.
 11. INSTALL FLEXIBLE CONNECTION AT UNIT.
 12. INSTALL 3" SHUTOFF VALVE, (V405) TAG 10V8101, OUT SIDE BUILDING.
 13. FAN WW1-10EF9901 LOCATE ABOVE DUCT ON ROOF.

GROUND FLOOR HVAC PLAN
3/16"=1'-0"

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DSGR	EL GOLDSTEIN				
DR	M GADE				
CHK	T MOSSINGER	01/20/10			
APV	RS SHANELEY	NO.	DATE	REVISION	BY

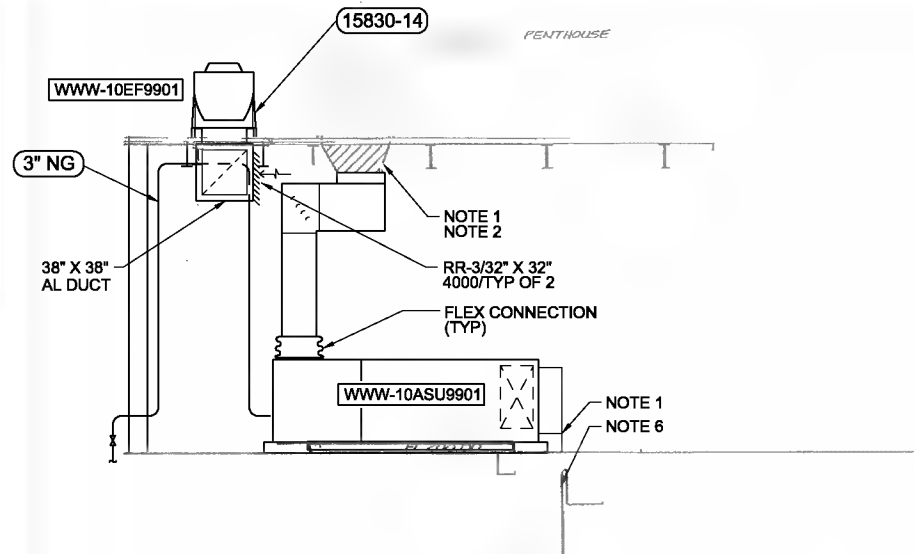
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



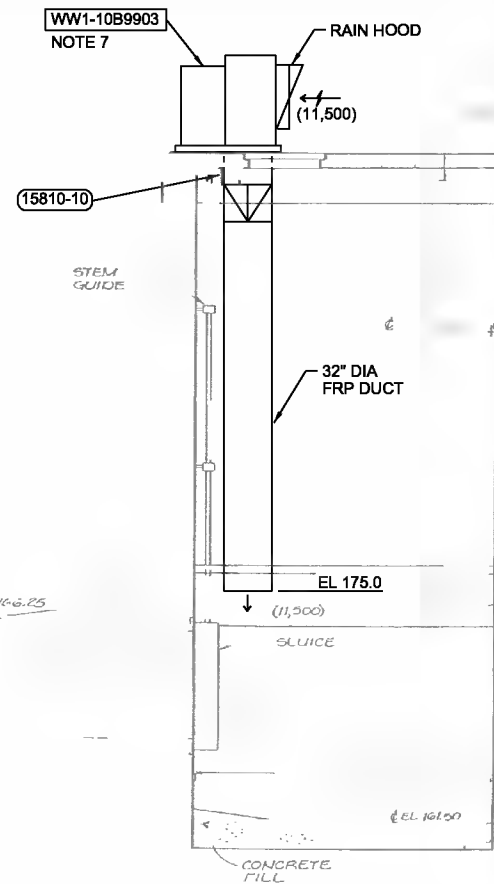
CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INFLUENT PUMP STATION	SHEET	211
GROUND FLOOR PLAN	DWG	10-H-141
	DATE	MAY 19 2006
	PROJ	326918

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SECTION A
3/16"=1'-0" 10-H-141



BLOWER RELOCATION B
3/16"=1'-0" 10-H-141

- NOTES:**
1. ATTACH TO EXISTING DUCT AS SPECIFIED IN 15810.
 2. TRANSITION AS NECESSARY TO MATCH DUCT SIZE IF EXISTING TRANSITION DOES NOT MATCH DIMENSIONS INDICATED. DEMOLISH AND REPLACE.
 3. ROUTE ALL DUCT WORK AND PIPING TO AVOID PASSING OVER ELECTRICAL EQUIPMENT.
 4. WHERE SUPPORTS NOT SHOWN MOUNT PER SPECIFICATION AND SMACNA.
 5. REBALANCE REGISTERS AS INDICATED.
 6. CONNECT NEW DUCT TO EXISTING DUCT. EXISTING DUCT SHOWN FOR CLARITY.
 7. RELOCATE EXISTING BLOWER FROM ORIGINAL LOCATION.

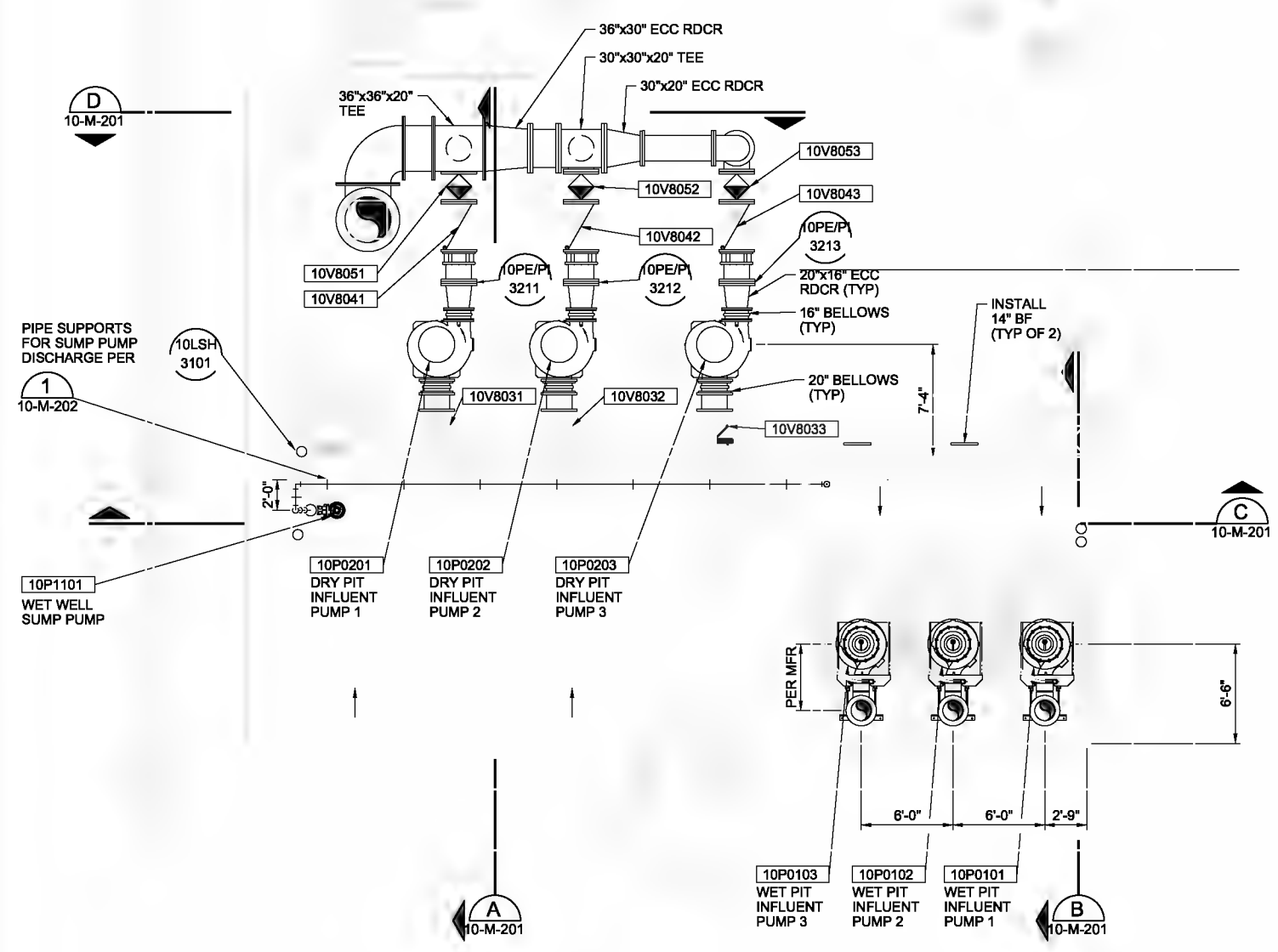
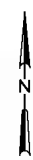
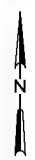
5° MAX
26 ±
(2350) TYP OF 2
NOTE 5
BLADE 26 ± 24
300 @ CL
20 × 20
FLOOR
36
(3000) TYP
NOTE 5
@ EL 163.25

7" RS
W/EL 163.25
AT WALL

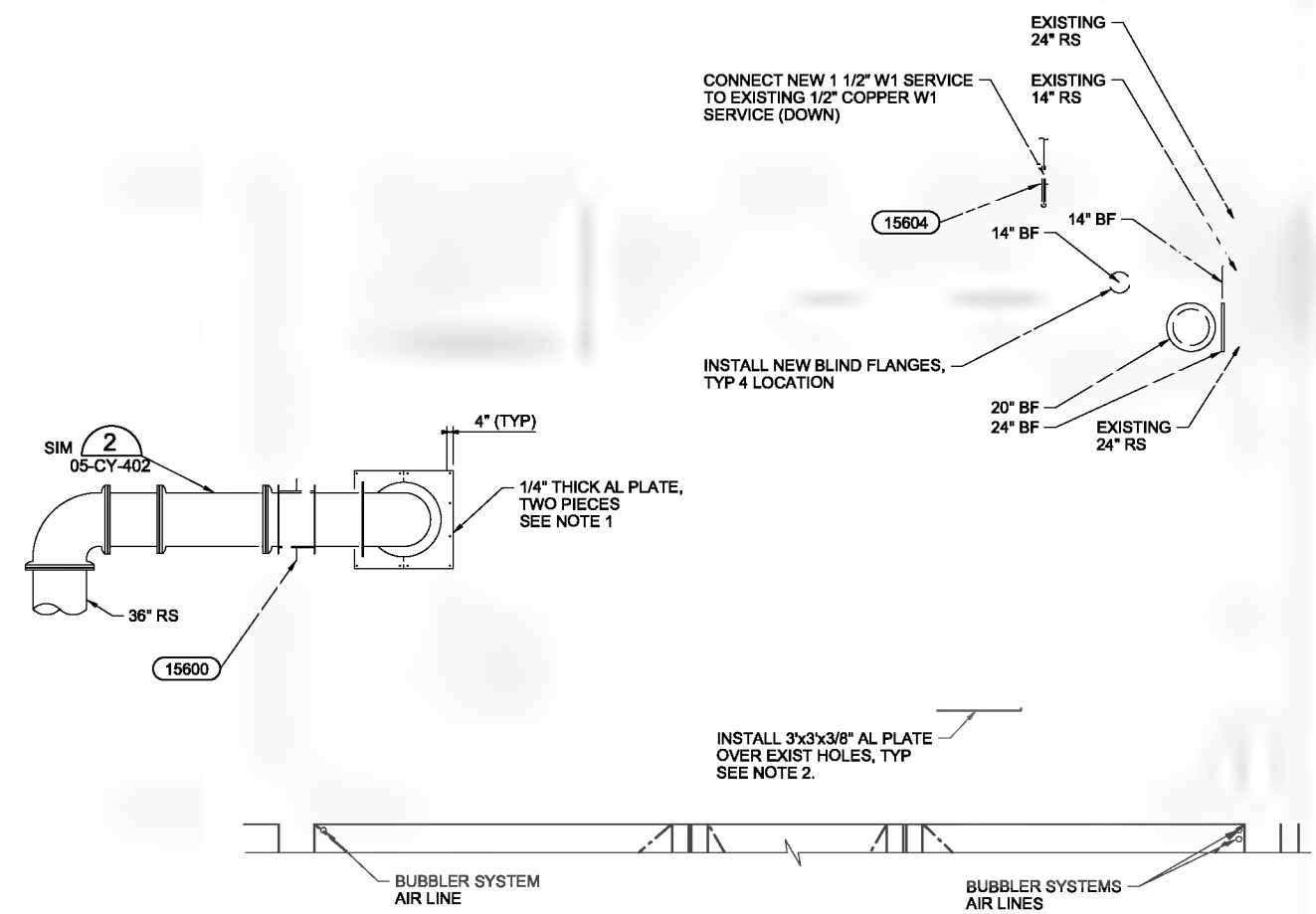
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DESIGNER EL GOLDSTEIN	DATE 01/20/10	BY RS SHANELEY	VERIFIED SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.		CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON	INFLUENT PUMP STATION SECTIONS	SHEET 212
(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	BRK AGC BY APVD	PROJECT 10-H-141	DWG 10-H-201				DATE MAY 19 2006

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PUMP FLOOR PLAN
3/16"=1'-0"



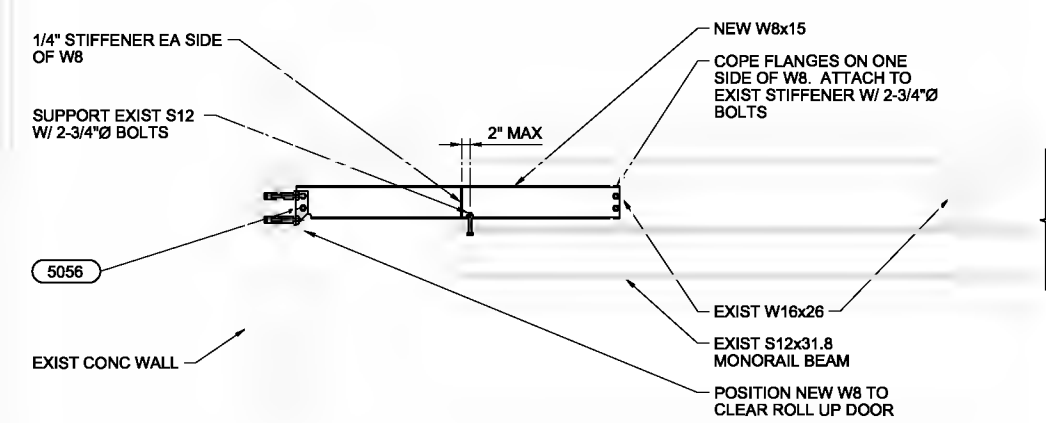
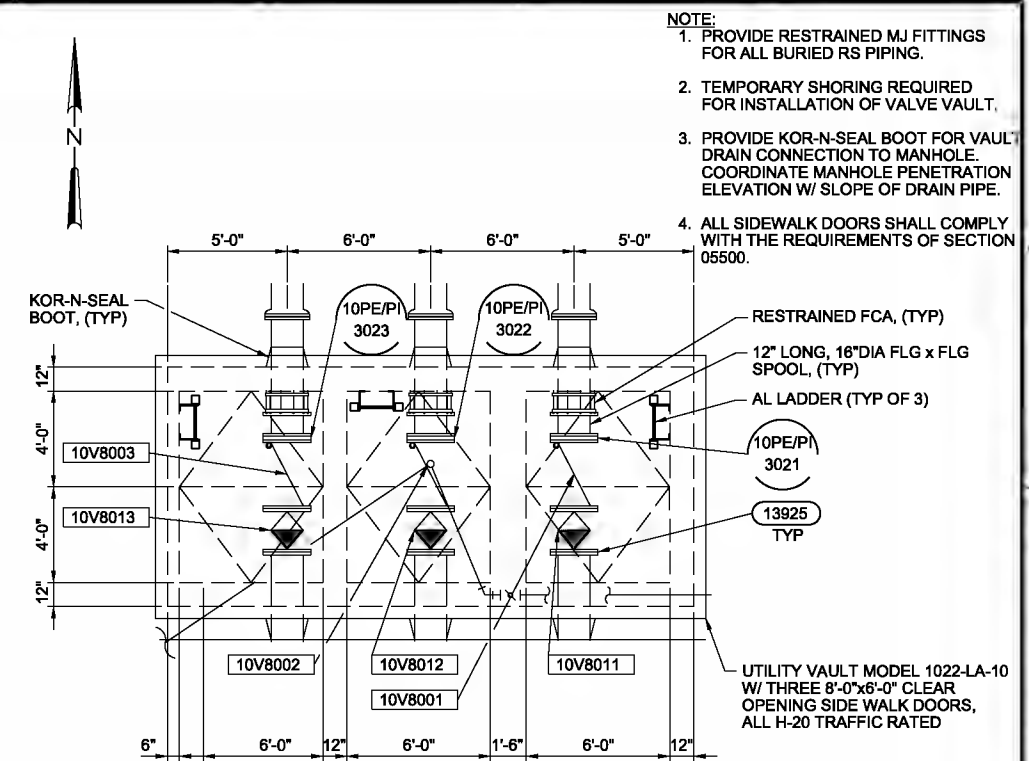
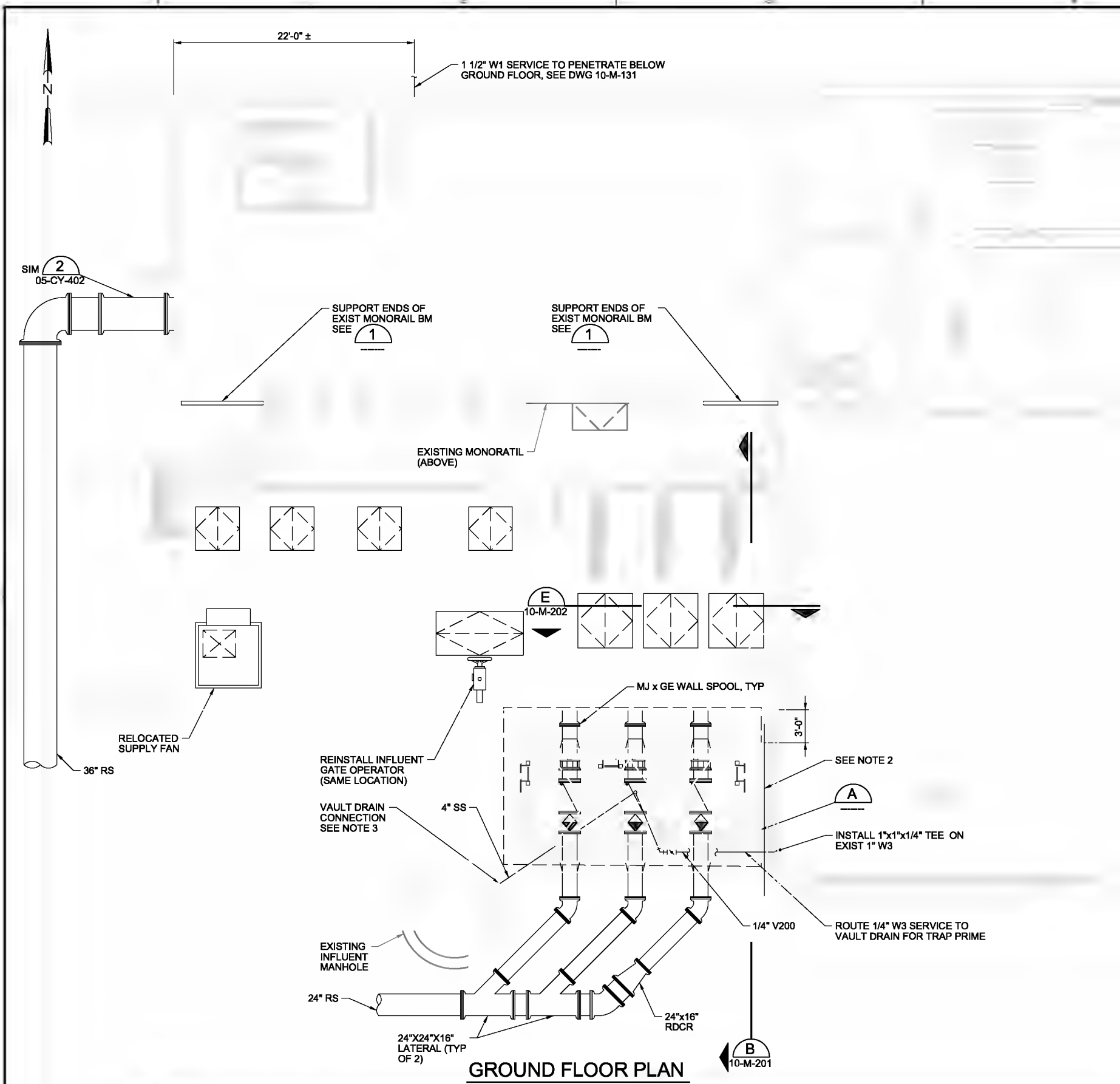
- NOTES:**
- GAP BETWEEN PIPE AND PLATE SHALL NOT EXCEED 1/4". EPOXY ANCHORS TO BE MINIMUM 3/8 DIA W/ MINIMUM 3" EMBEDMENT. ANCHOR SPACING SHALL NOT EXCEED 12". TRIM EXCESS ANCHOR SO ONLY 2 THREADS EXTEND PAST TIGHTENED NUT.
 - NEW COVER PLATES TO EXTEND MINIMUM 3" BEYOND EXIST HOLE. ANCHOR PLATES W/ 1/4"x1" SCREWS, MAXIMUM SPACING OF 12" AROUND EDGE OF PLATE. PROVIDE PENETRATIONS FOR MOTOR CABLES AS REQUIRED. INSTALL RUBBER GROMMETS IN HOLES TO PROTECT CABLES FROM METAL EDGES. GAP BETWEEN CABLE AND GROMMET SHALL NOT EXCEED 1/2".

MOTOR ROOM FLOOR PARTIAL PLAN
3/16"=1'-0"

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DESIGN: BM CASEY	DATE: 01/20/10	REVISION:	BRK: AGC	APPROVED: [Signature]	SCALE: VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CITY OF ALBANY WASTEWATER SYSTEM IMPROVEMENTS PROJECT WWTP-03-01 LINN COUNTY, OREGON	INFLUENT PUMP STATION PUMP FLOOR AND MOTOR FLOOR PLANS	SHEET: 213 DWG: 10-M-131 DATE: MAY 19 2006 PROJ: 326918
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- NOTE:
1. PROVIDE RESTRAINED MJ FITTINGS FOR ALL BURIED RS PIPING.
 2. TEMPORARY SHORING REQUIRED FOR INSTALLATION OF VALVE VAULT.
 3. PROVIDE KOR-N-SEAL BOOT FOR VAULT DRAIN CONNECTION TO MANHOLE. COORDINATE MANHOLE PENETRATION ELEVATION W/ SLOPE OF DRAIN PIPE.
 4. ALL SIDEWALK DOORS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 05500.

PARTIAL PLAN A
1/4" = 1'-0"

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

GROUND FLOOR PLAN
3/16" = 1'-0"

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DESIGN	RM CASEY	DATE	01/20/06
DR	MJ GAGE	NO.	
CHK	Q TRAL	DATE	
APPROV	CS SHAWLEY	REVISION	

VERIFY SCALE
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0 = 1"
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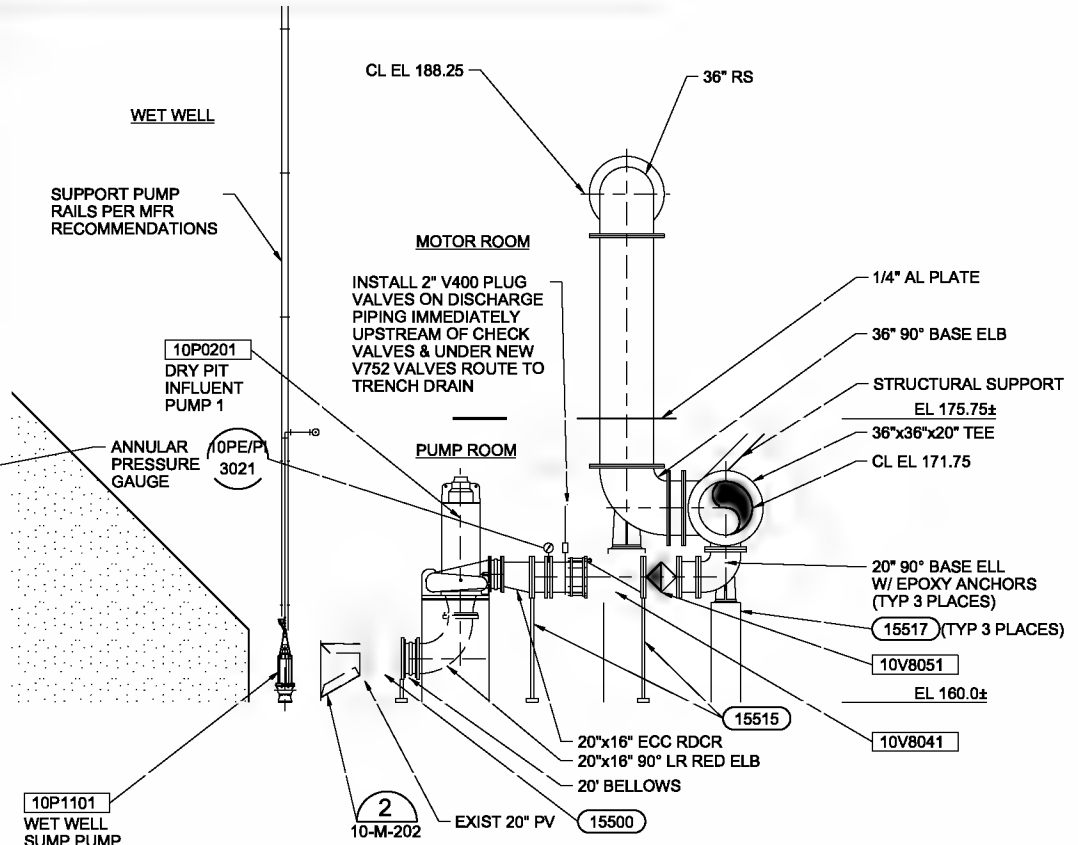


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

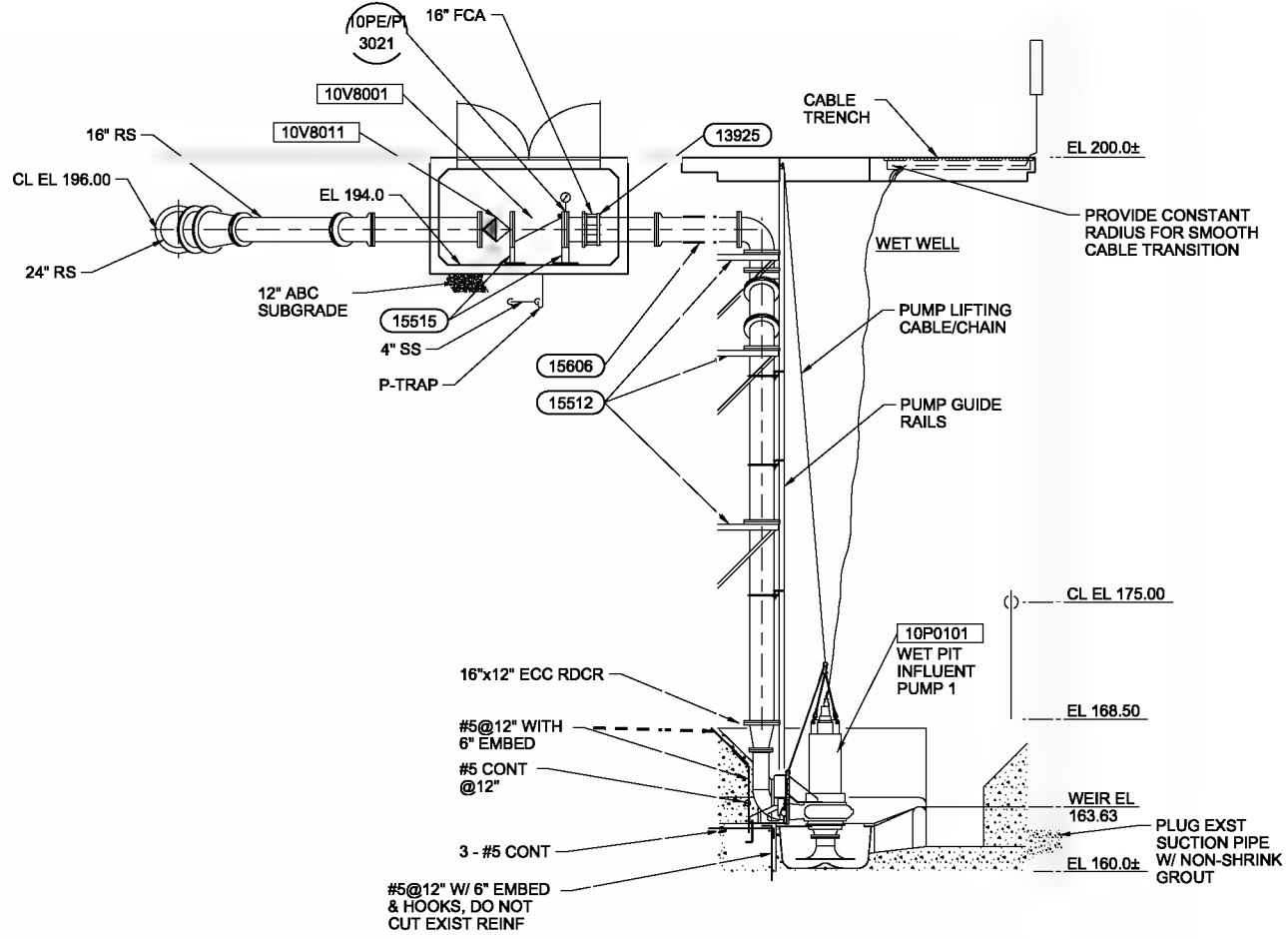
INFLUENT PUMP STATION
GROUND FLOOR PLAN

SHEET	214
DWG	10-M-141
DATE	MAY 19 2006
PROJ	326918

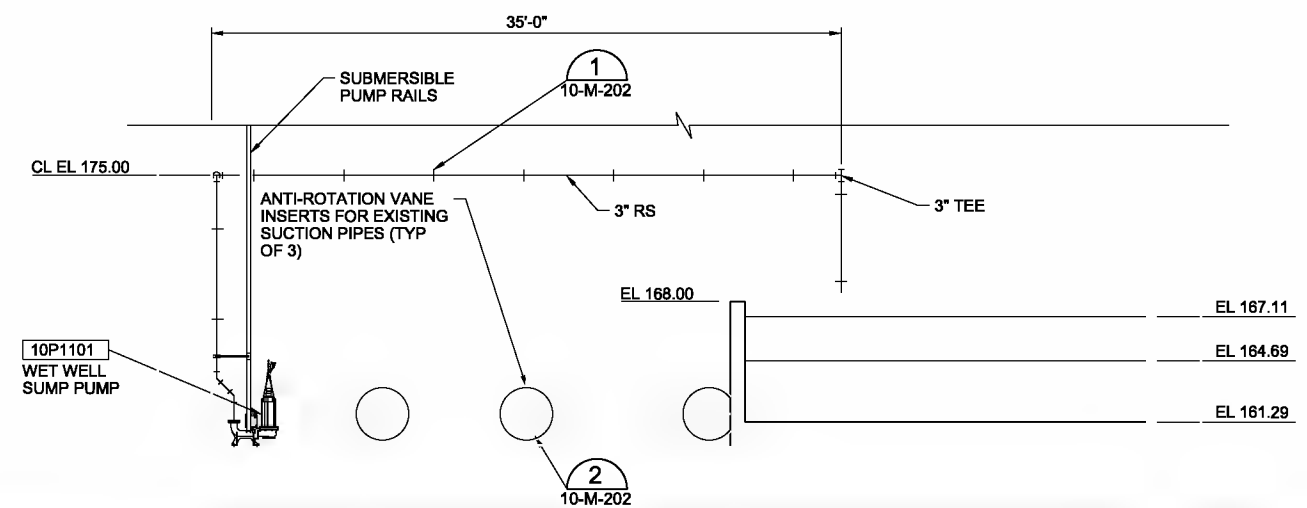
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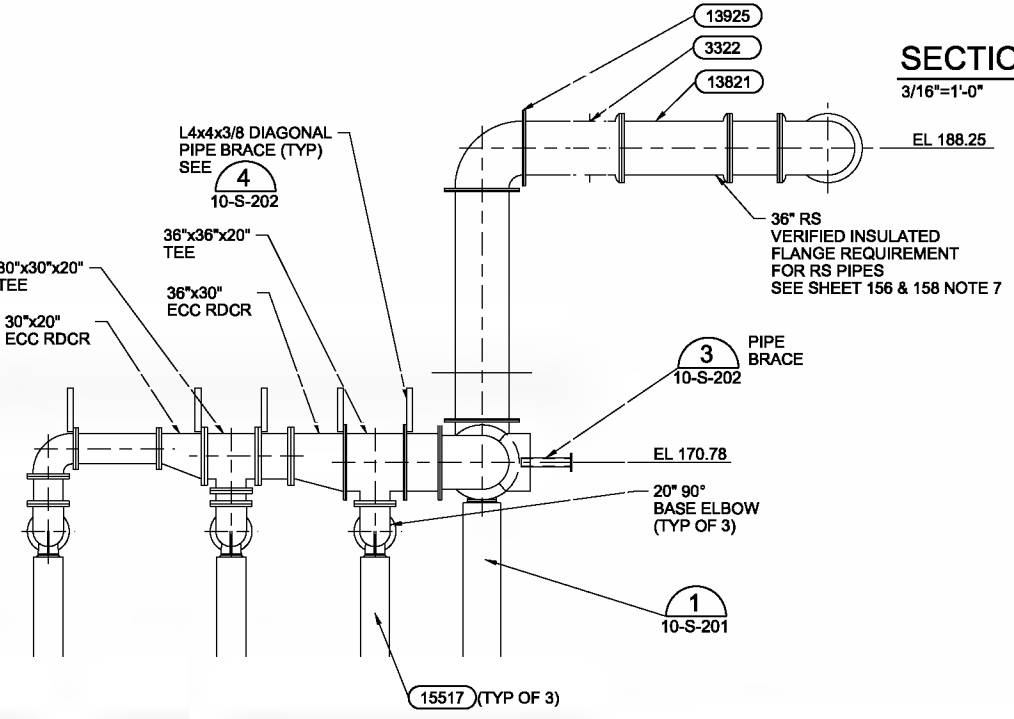
SECTION A
3/16"=1'-0"
10-M-131



SECTION B
3/16"=1'-0"
10-M-131



SECTION C
3/16"=1'-0"
10-M-131



SECTION D
3/16"=1'-0"
10-M-131

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DSGN	BM CASEY																			
DR	MJ GABEL																			
CHK	CHECKED-BY	01/20/10																		
APVD	APPROVED-BY	NO.	DATE	REVISION	BY	APVD														

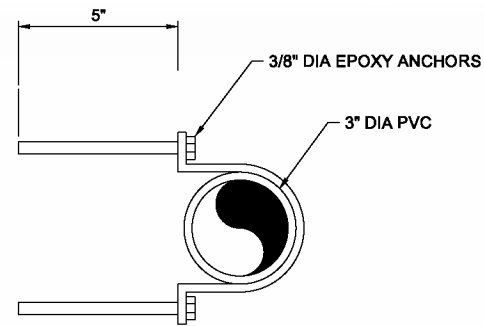


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INFLUENT PUMP STATION
MECHANICAL SECTIONS
PUMP SECTIONS AND DETAILS

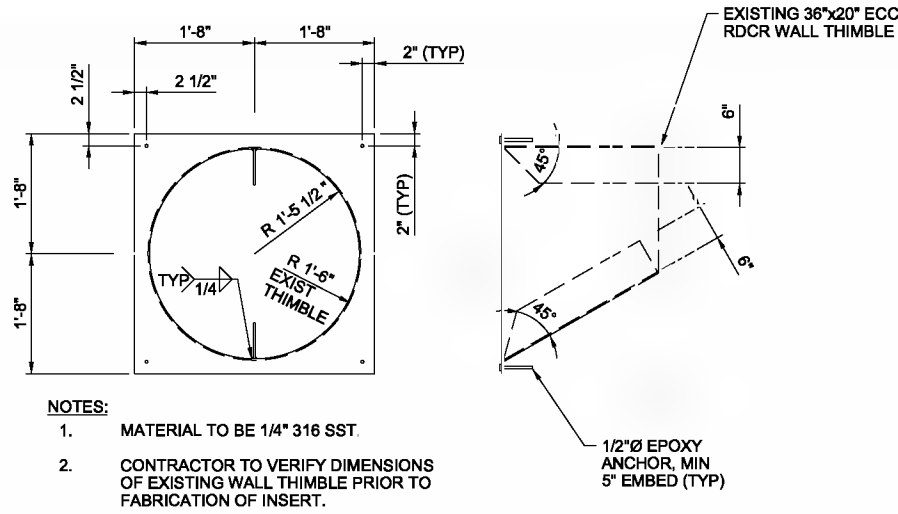
SHEET	215
DWG	10-M-201
DATE	MAY 19 2006
PROJ	326918

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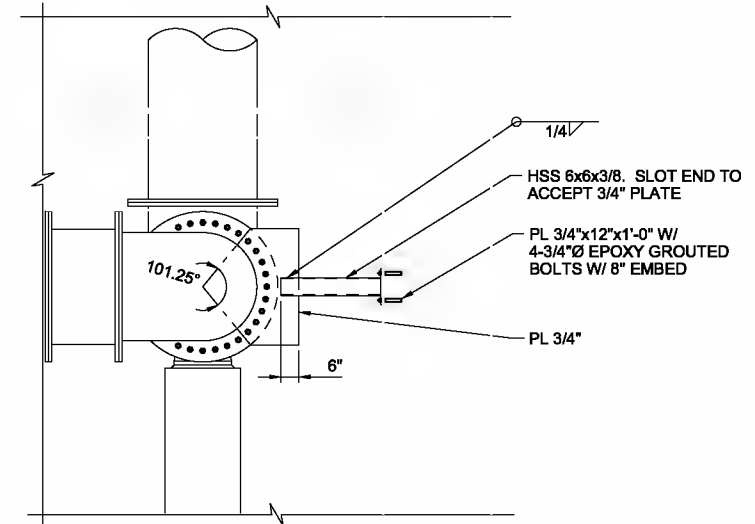
- NOTES:**
- FOR BOTH VERTICAL AND HORIZONTAL LOCATIONS.
 - MAX SPACING OF 5 FEET.

DETAIL 1
 3"=1'-0" 10-M-131
 10-M-201

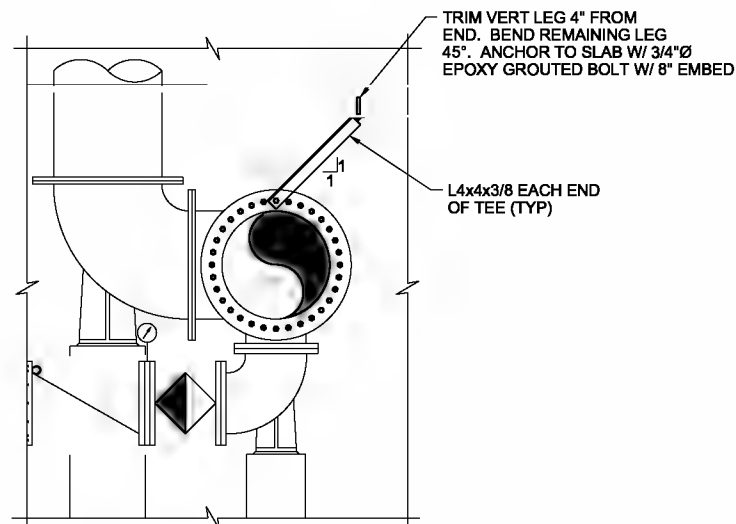


- NOTES:**
- MATERIAL TO BE 1/4" 316 SST.
 - CONTRACTOR TO VERIFY DIMENSIONS OF EXISTING WALL THIMBLE PRIOR TO FABRICATION OF INSERT.

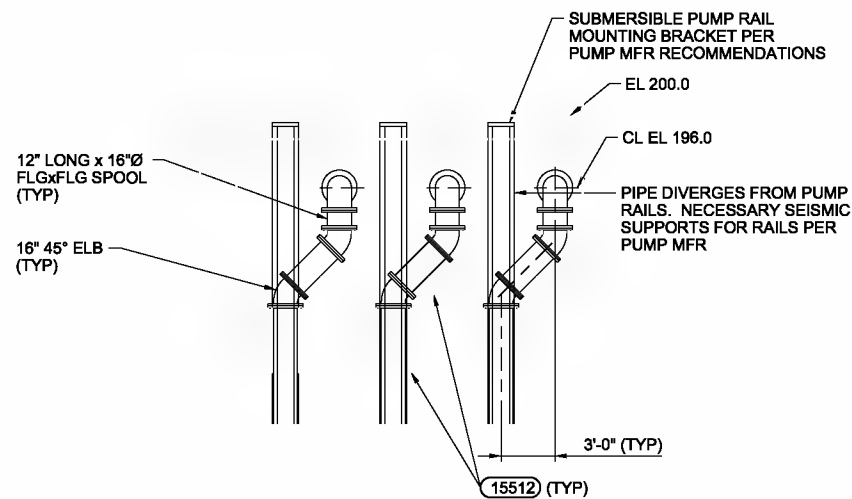
DETAIL 2
 3/4"=1'-0" 10-M-201



DETAIL 3
 3/8"=1'-0" 10-M-202



DETAIL 4
 3/8"=1'-0" 10-M-202



SECTION E
 3/16"=1'-0" 10-M-141

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY BRIAN M CASEY, STATE OF OREGON, P.E. NO. 73,447.

DESIGN	BM CASEY	(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT	BRK	DATE
CHECK	MJ GABEL			
DATE	07/15/06			
BY	RS SHAMLEY			

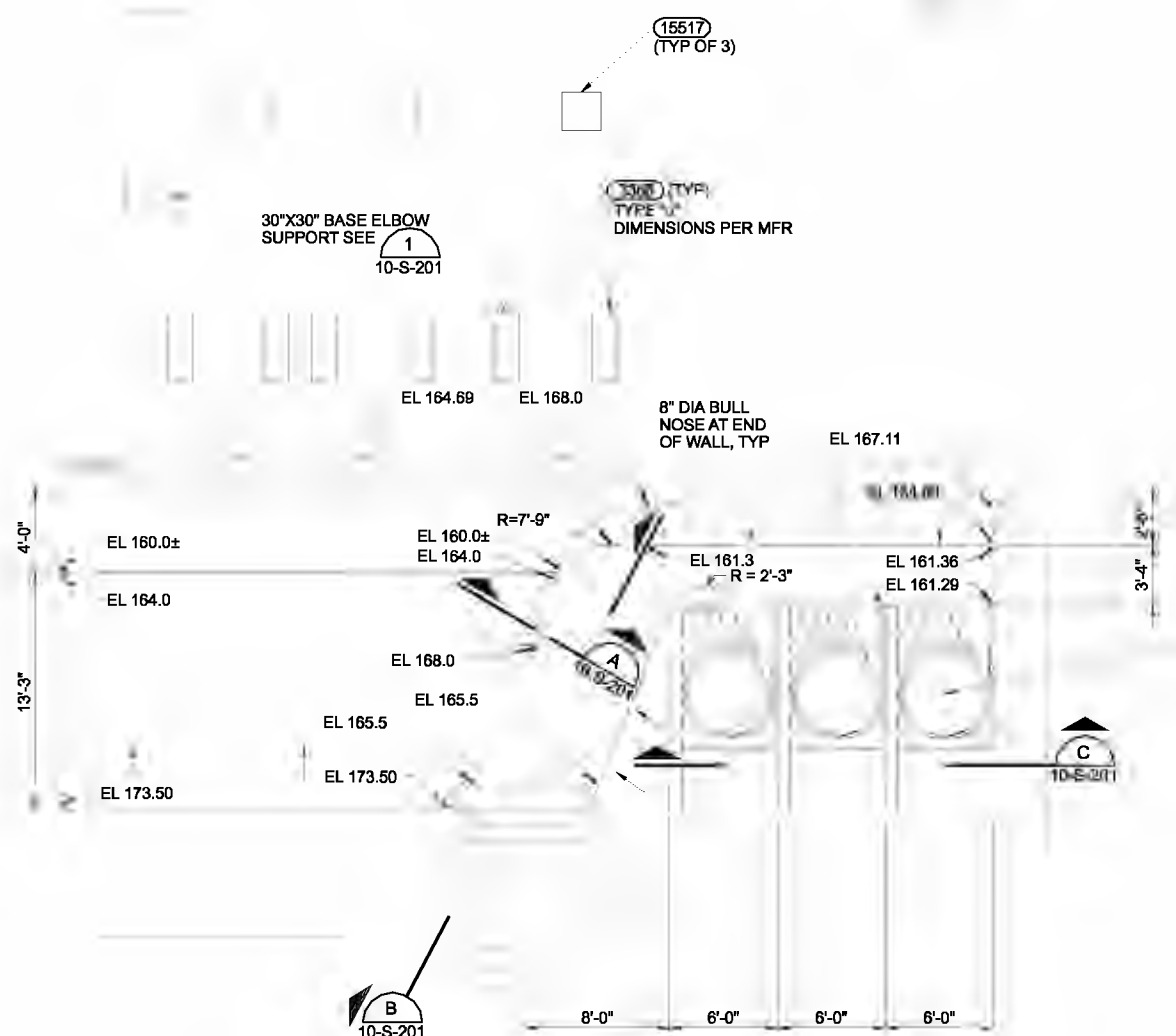
SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL **CAROLLO**
 engineers

CITY OF ALBANY
 SYSTEM IMPROVEMENTS PROJECT
 WWTP-03-01
 LINN COUNTY, OREGON

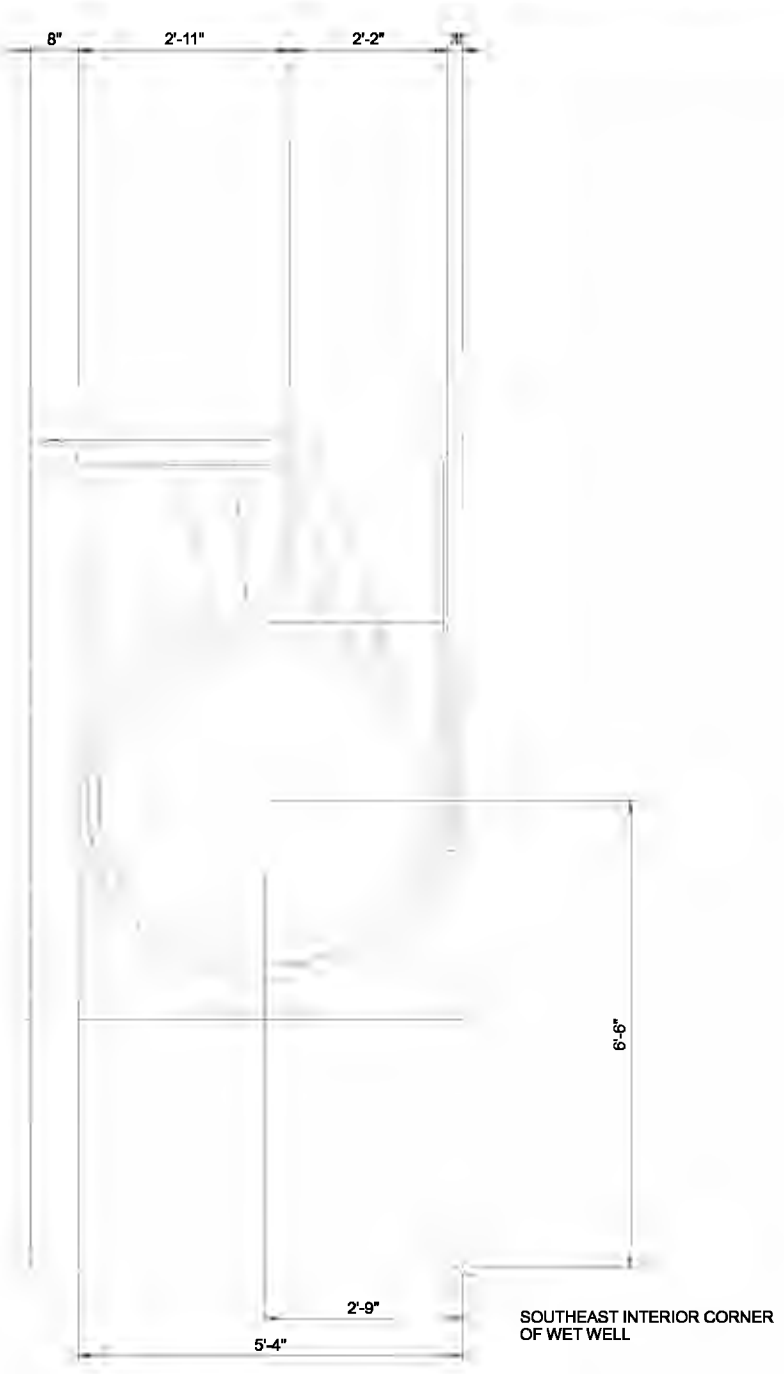
INFLUENT PUMP STATION
 PUMP SECTION AND DETAILS

SHEET	216
DWG	10-M-202
DATE	MAY 19 2006
PROJ	326918



* PROVIDE SYSTEM 19 SEC 09900 COATING TO THE EXISTING TO IPS TO WET WELL WALLS.

PROPRIETARY PUMP BASIN INSTALLATION PER MFR REQUIREMENTS (TYP)
SEE DETAIL 1 FOR BASIC LAYOUT DIMENSIONS



NOTES:
1. COORDINATE ALL EQUIPMENT AND PIPING SUPPORTS WITH MECHANICAL DRAWINGS.

PUMP FLOOR PLAN
3/16"=1'-0"

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

NOTES:
1. DIMENSIONS ARE PRELIMINARY ONLY. CONTRACTOR TO VERIFY DIMENSIONS W/ APPROVED MFR DWGS.

DSGN	KA MARTIN	NO.	DATE	REVISION	BY	APVD	BRK	RAH	VERIFY SCALE
DR	ED LONGORIA								BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	CA GENTRY								0 1"
APVD	RS SHANLEY								IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INFLUENT PUMP STATION
PUMP FLOOR
PLAN AND DETAIL

SHEET	217
DWG	10-S-131
DATE	MAY 19 2006
PROJ	326918

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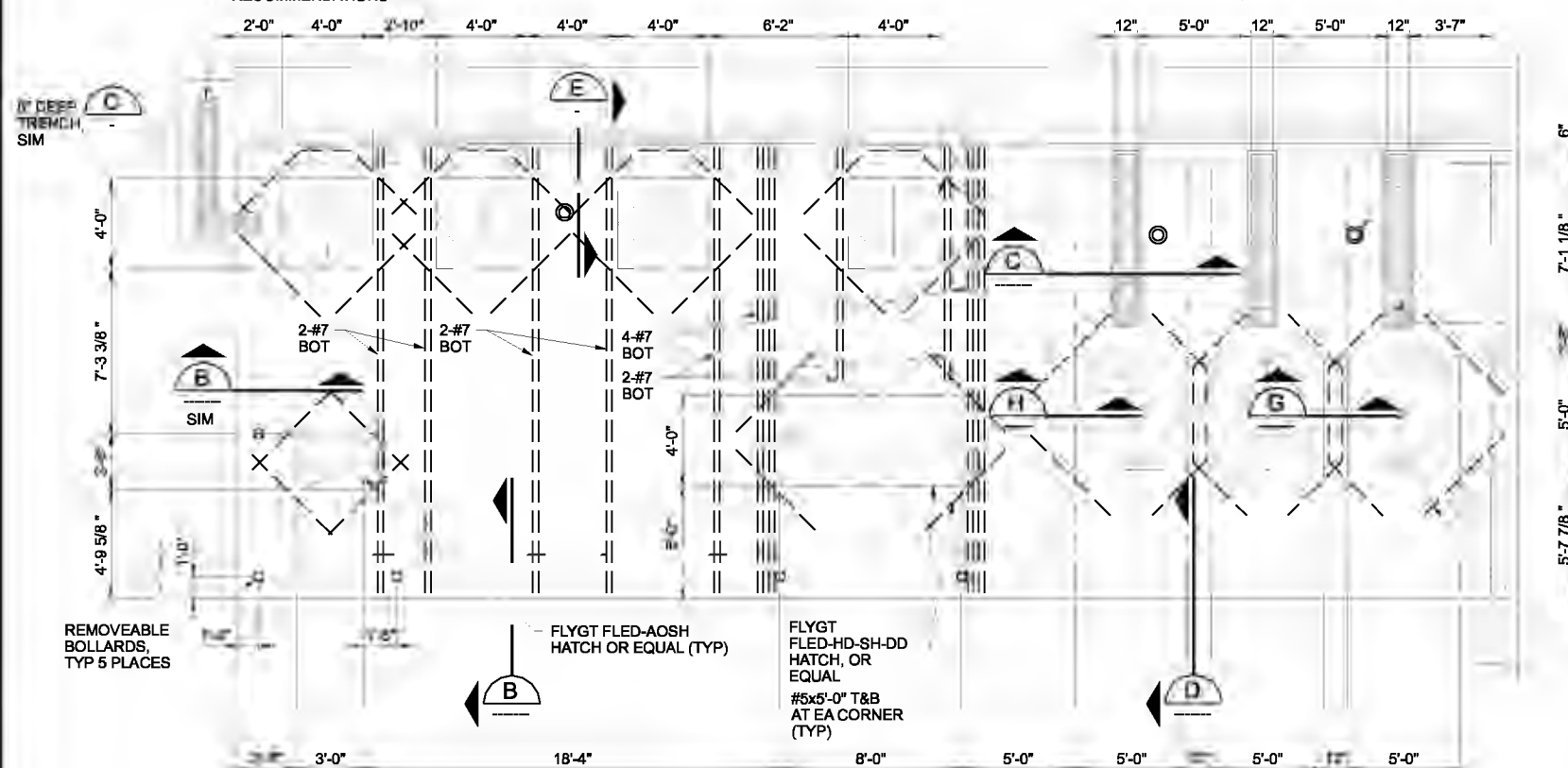
PUMP CABLE TRENCH,
ACO DRAIN MODEL
NO. FG 200 W/ LOCKABLE
SST SLOTTED CLASS "E"
GRATE. INSTALL PER MFR'S
RECOMMENDATIONS

FLYGT FLED-AOSH
HATCH OR EQUAL (TYP)

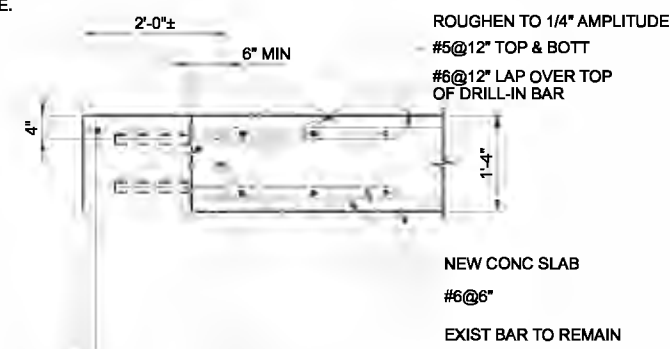
CORE HOLE FOR
LEVEL SENSOR
TYP 3 PL
PROVIDE OPENING AND
SMOOTH TRANSITION TO
ACCOMMODATE PUMP
CABLE (TYP SEE DWG
10-M-201)

NOTE:

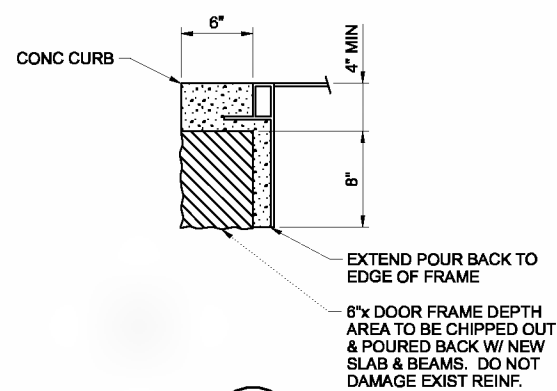
- FOR STRUCTURAL NOTES, SEE DWGS 01-G-09 AND 01-G-10.
- ALL HATCHES OVER WET WELL TOP SLAB SHALL BE H20 RATED SIDEWALK DOORS PER SECTION 05500 WITH SAFETY GRATE FEATURE. HATCHES OVER WET WELL DO NOT REQUIRE DRAIN CHANNEL FEATURE.



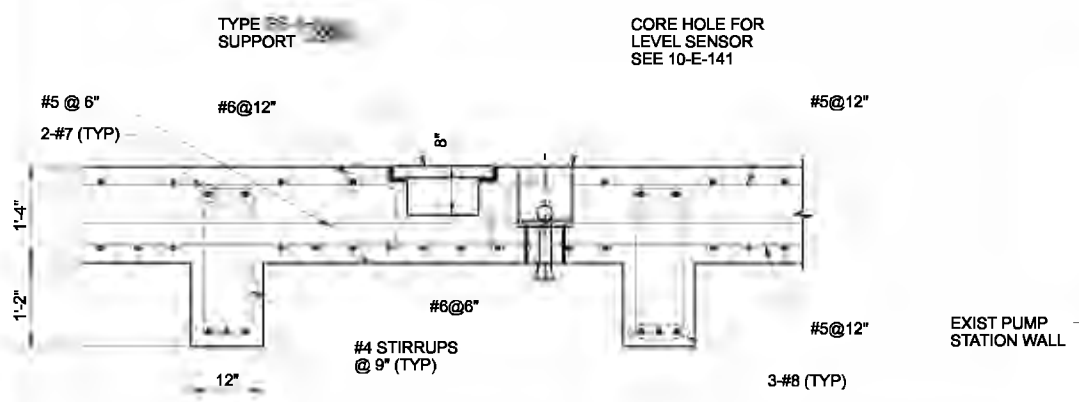
PARTIAL GROUND FLOOR PLAN
1/4"=1'-0"



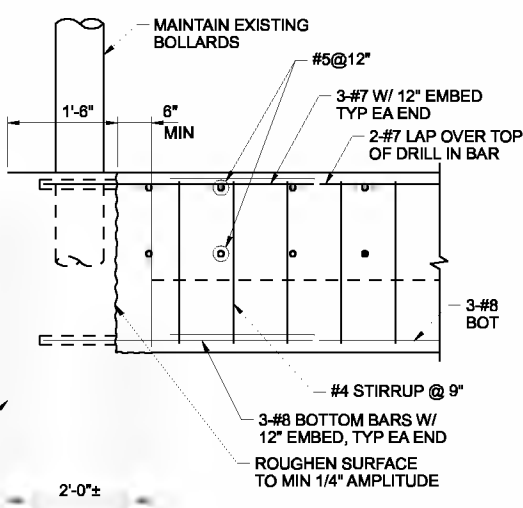
SECTION B
3/4"=1'-0"



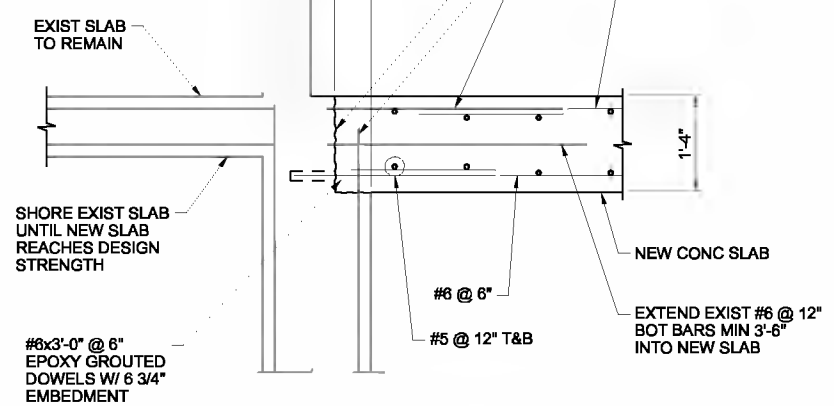
SECTION H
NTS



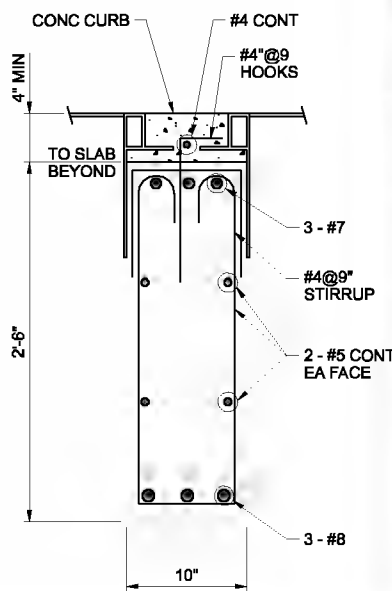
SECTION C
3/4"=1'-0"



SECTION D
3/4"=1'-0"



SECTION E
3/4"=1'-0"



SECTION G
NTS

DESIGN	WA MARTIN	NO.	DATE	REVISION	BY	APVD
DR	WA MARTIN					
CHK	CA DENTRY					
APVD	RS SHANLEY					

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

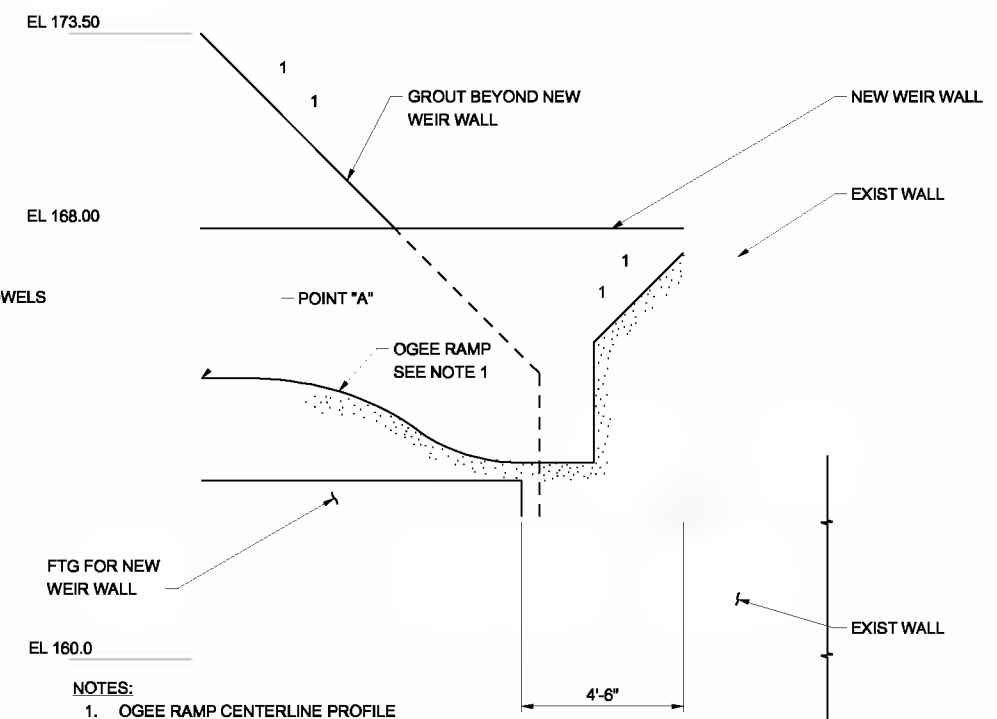
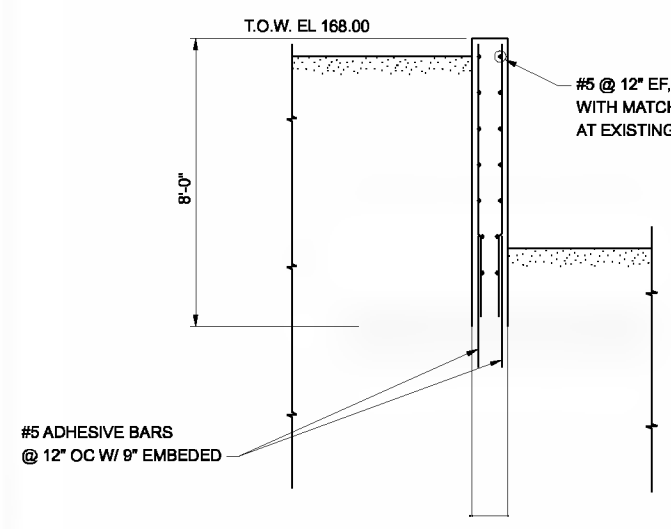
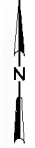


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INFLUENT PUMP STATION
PARTIAL GROUND FLOOR PLAN AND SECTIONS

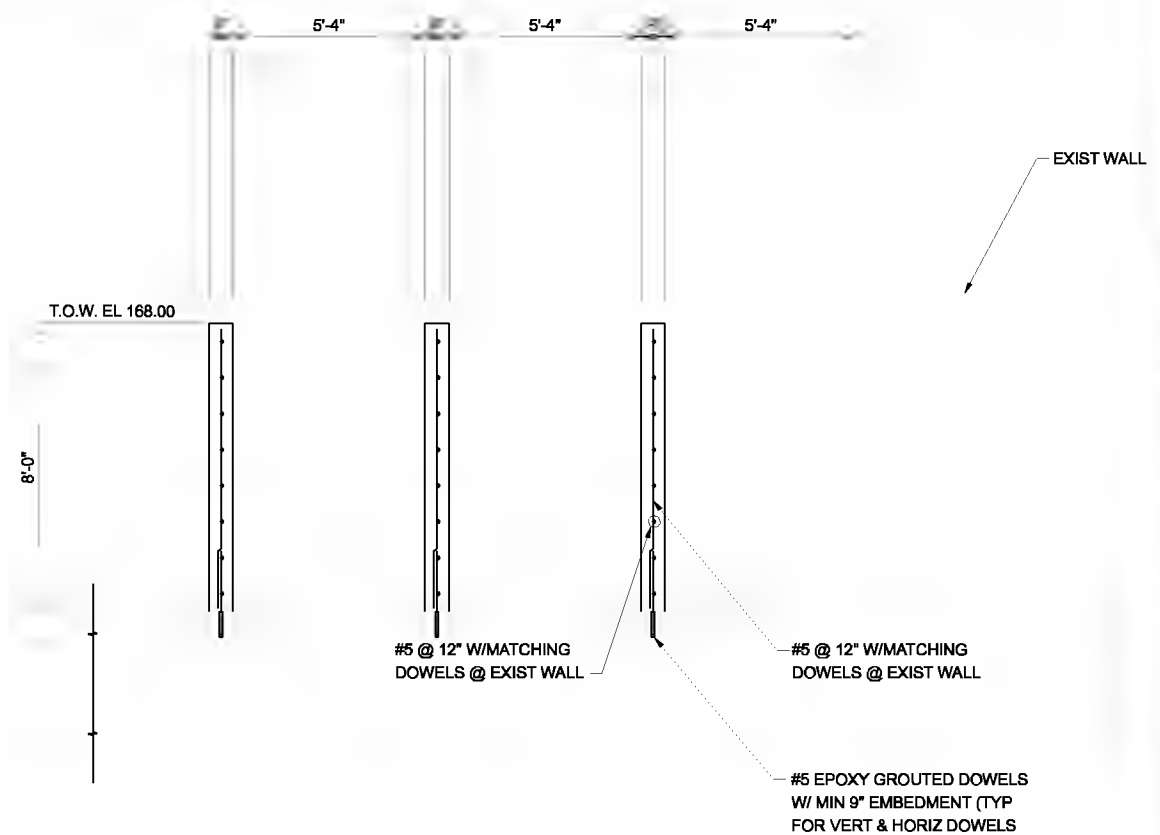
SHEET	218
DWG	10-S-141
DATE	MAY 19 2006
PROJ	326918

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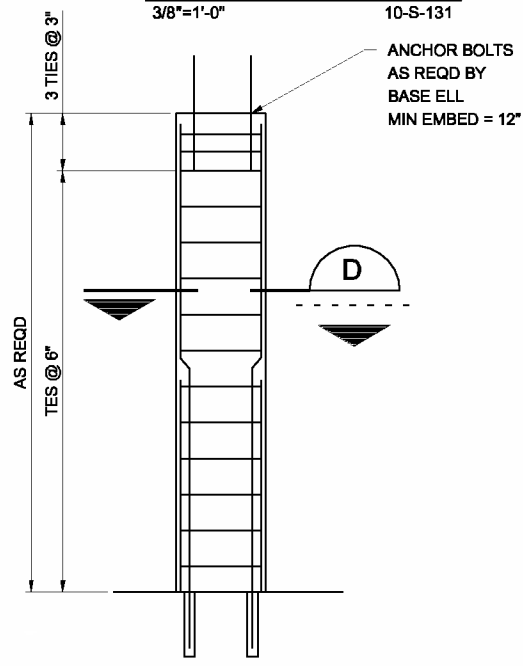


NOTES:
1. OGEE RAMP CENTERLINE PROFILE IS AS FOLLOWS.

DIST FROM PT "A"	ELEVATION	NOTE
0	165.5	BEGIN RAMP
4'-1"	164.5	
8'-2"	163.4	
12'-3"	162.4	
16'-4"	161.3	END

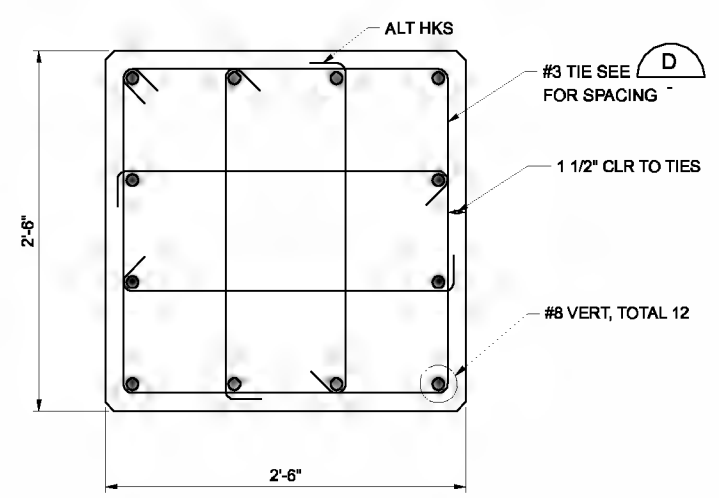


SECTION A
3/8"=1'-0" 10-S-131



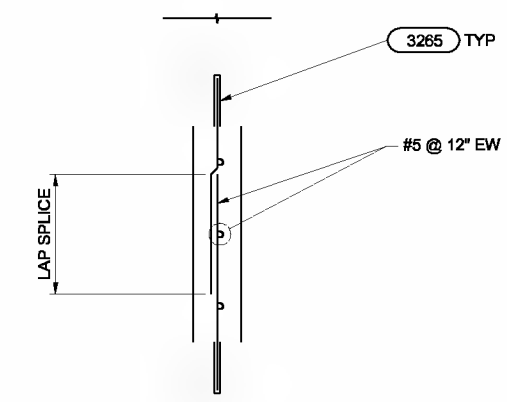
DETAIL 1
3/8"=1'-0" 10-S-131 10-M-201

SECTION B
3/8"=1'-0" 10-S-131



SECTION D
3/4"=1'-0"

SECTION C
3/4"=1'-0" 10-S-131



NOTES:
1. SEE HVAC DRAWINGS FOR LOCATIONS OF OPENINGS TO BE FILLED.
2. LAP HORIZ AND VERT BARS IN MIDDLE OF OPENING

DETAIL 2
3/4"=1'-0" 10-H-141

DSGN	KA MARTIN	NO.	DATE	REVISION	BY	APVD	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	ED LONGORIA						
CHK	CA GENTRY						
APVD	RS SHANLEY						

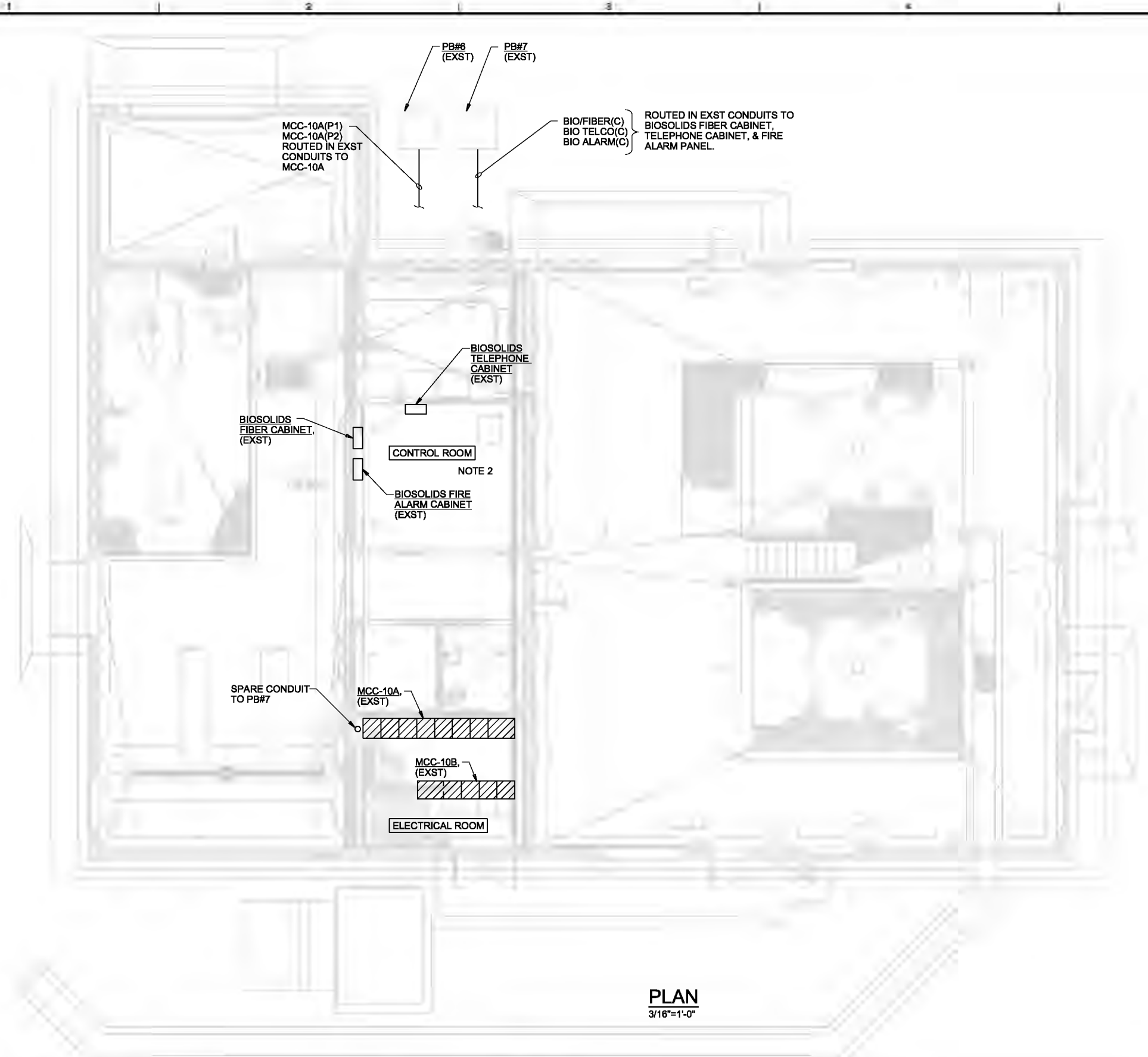
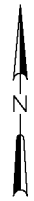


CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
WWTP-03-01
LINN COUNTY, OREGON

INFLUENT PUMP STATION
SECTIONS

SHEET	219
DWG	10-S-201
DATE	MAY 19 2006
PROJ	326918

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MCC-10A(P1)
MCC-10A(P2)
ROUTED IN EXST
CONDUITS TO
MCC-10A

PB#6
(EXST) PB#7
(EXST)

BIO/FIBER(C)
BIO TELCO(C)
BIO ALARM(C) } ROUTED IN EXST CONDUITS TO
BIOSOLIDS FIBER CABINET,
TELEPHONE CABINET, & FIRE
ALARM PANEL.

BIOSOLIDS
TELEPHONE
CABINET
(EXST)

BIOSOLIDS
FIBER CABINET,
(EXST)

CONTROL ROOM

NOTE 2

BIOSOLIDS FIRE
ALARM CABINET
(EXST)

SPARE CONDUIT
TO PB#7

MCC-10A,
(EXST)

MCC-10B,
(EXST)

ELECTRICAL ROOM

PLAN
3/16"=1'-0"

NOTES:

1. REFER TO THE SITE ROUTED CIRCUIT SCHEDULE AND SITE ROUTED CONDUIT SCHEDULE FOR CIRCUITING REQUIREMENTS ON THE SITE.
2. VERIFY LOCATION OF EQPT. IN CONTROL ROOM.

THE CONTRACT DOCUMENT DRAWINGS ARE PRINTED DOCUMENTS WHICH DEFINE THE SCOPE, EXTENT, AND CHARACTER OF THE WORK. THE ORIGINAL DOCUMENT DRAWINGS WERE SEALED AND SIGNED 05/06 BY KANDIL MAESTRI, STATE OF OREGON, P.E. NO. 53785PE

DSGN	KI MAESTRI				
DR	DW CLARK				
CHK	JB MAURAS	01/20/10			
APVD	CW MASSIE	NO.	DATE	REVISION	BY APVD

(FOR LIMITATIONS SEE RECORD DRAWING NOTE ON SHEET 1) AS-BUILT

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



CITY OF ALBANY
WASTEWATER SYSTEM IMPROVEMENT PROJECT
WWTP-03-01
LINN COUNTY, OREGON

BIOSOLIDS DEWATERING BUILDING MODIFICATIONS
ELECTRICAL PLAN

SHEET	220
DWG	15-E-141
DATE	MAY 19 2006
PROJ	326918

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