

# PUBLIX SUPERMARKETS, INC.

## WASTEWATER PRETREATMENT UPGRADES

### DACULA, GEORGIA

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##### WASTEWATER PRETREATMENT

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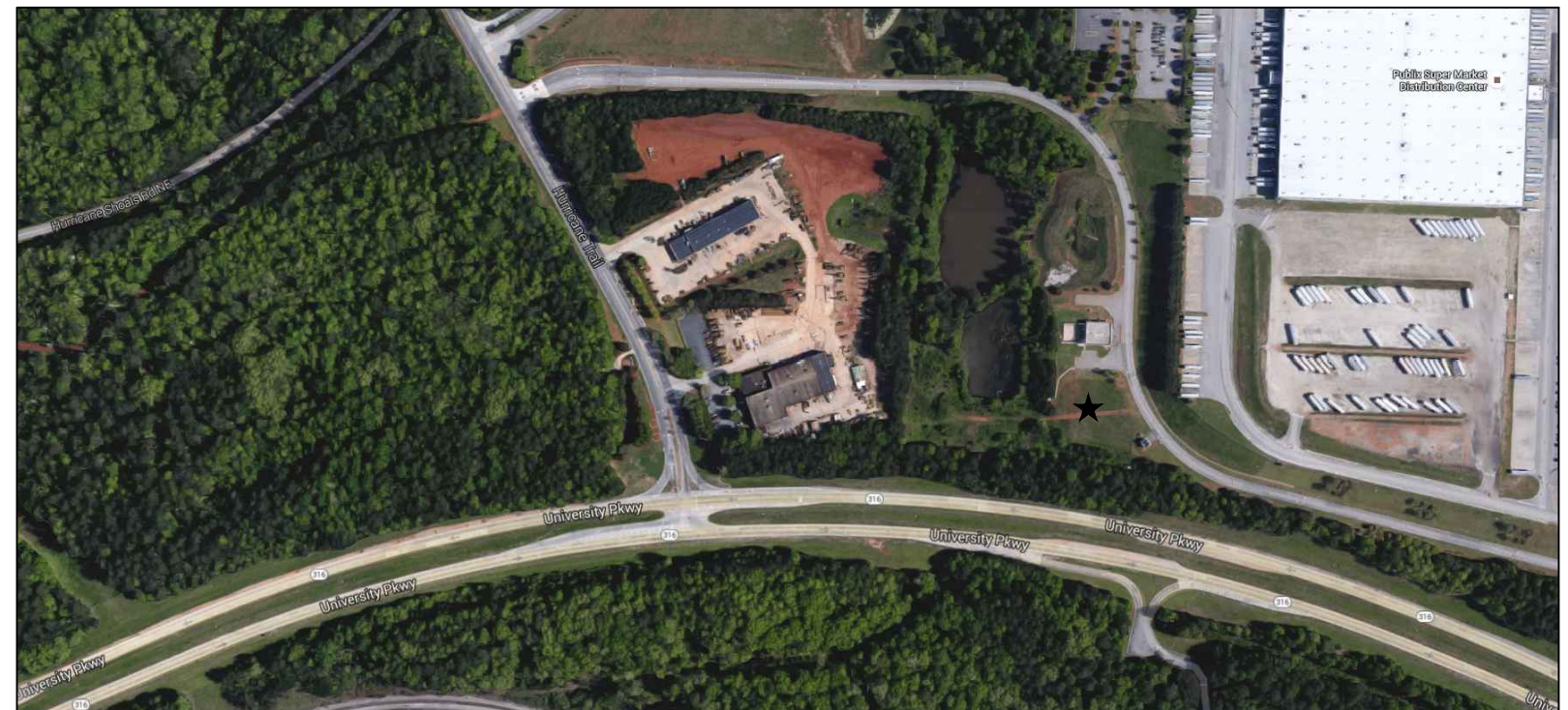
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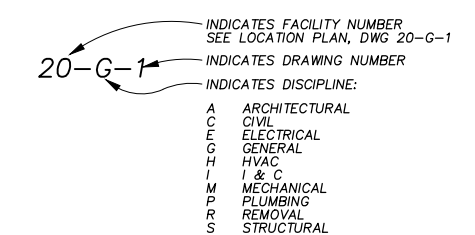
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★ PROJECT LOCATION

**LOCATION MAP**

#### DRAWING NUMBER DESIGNATION



40-SM-2 — DUAL LETTERS INDICATE COMBINED DISCIPLINES

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 3: VESDA (GRAPHICS) (DRAWINGS) 10-G-1 TITLE SHEET & SHEET INDEX.dwg  
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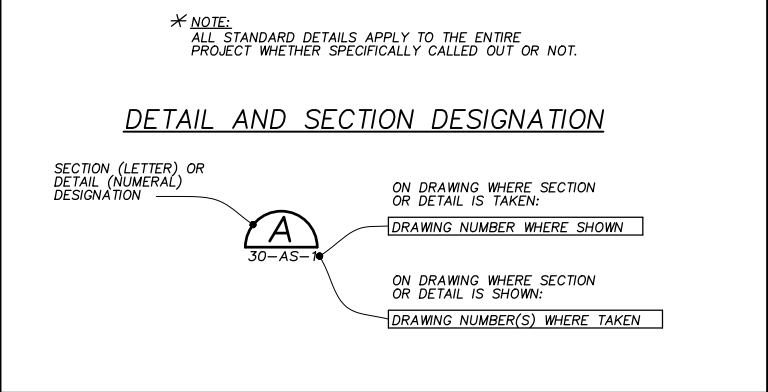
**PUBLIX SUPERMARKETS, INC.**  
**WASTEWATER PRETREATMENT UPGRADES**  
**DACULA, GEORGIA**

<b>PROJECT REFERENCE</b> <b>GENERAL</b> <b>TITLE SHEET &amp; SHEET INDEX</b>	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">PROJECT NO.</td> <td style="width: 50%;">DATE</td> </tr> <tr> <td style="text-align: center;">5634</td> <td style="text-align: center;">2-25-16</td> </tr> <tr> <td colspan="2">DRAWING NO.</td> </tr> <tr> <td colspan="2" style="text-align: center;">10-G-1</td> </tr> </table>	PROJECT NO.	DATE	5634	2-25-16	DRAWING NO.		10-G-1	
PROJECT NO.	DATE								
5634	2-25-16								
DRAWING NO.									
10-G-1									

ABBREVIATIONS

Table of abbreviations with columns for symbol, description, and symbol, description, and symbol, description. Includes terms like AUTOMATIC CONTROL AIR DAMPER, HEATING COIL, PROCESS AND INSTRUMENTATION DIAGRAM, etc.

DETAIL LEGEND table with columns for STANDARD NUMBER, DESCRIPTION, and STANDARD DESCRIPTION. Includes codes like 13280, 02000-02999, etc.



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PUBLIX SUPERMARKETS, INC. WASTEWATER PRETREATMENT UPGRADES DACULA, GEORGIA

Table with revision information: NO., DATE, REVISION, BY, APVD.

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# SURVEY LEGEND & SYMBOLS

SITE SURVEY BY:  
MCKIM & CREED  
1505 LAKES PARKWAY, SUITE 170  
LAWRENCEVILLE, GA. 30043  
PHONE: (770) 962-4125  
SURVEY DATE: NOV. 5, 2015

## LEGEND

- = BENCHMARK
- = CONTROL POINT
- = DROP INLET
- = ELECTRIC METER
- = FIRE HYDRANT
- = LIGHT POLE
- = SANITARY SEWER CLEANOUT
- = SANITARY SEWER MANHOLE
- = SANITARY SEWER VALVE
- = SOIL BORING
- = TREE - DECORATIVE WITH SIZE
- = TREE - HARDWOOD WITH SIZE
- = WATER VALVE
- = DRIP LINE
- = UNDERGROUND TELEPHONE
- = UNDERGROUND ELECTRIC
- = UNDERGROUND SANITARY SEWER
- = UNIDENTIFIED UNDERGROUND UTILITY
- = UNDERGROUND WATER
- = AIR CONDITIONING
- = BENCHMARK
- = BOTTOM OF WALL
- = CONCRETE
- = CONCRETE CURB AND GUTTER
- = FIRST FLOOR ELEVATION
- = SANITARY SEWER MANHOLE
- = SANITARY SEWER VALVE
- = TRAVERSE
- = TOP OF WALL

# PROPOSED SITEWORK LEGEND & SYMBOLS

NOTE:  
THIS IS A STANDARD LEGEND AND NOT  
ALL OF THE INFORMATION SHOWN MAY BE  
USED ON THIS PROJECT.

## PROPOSED

## DESCRIPTION

- IRON PIPE (PROPERTY CORNER)
- IRON ROD/SPIKE
- SPOT ELEVATION
- LIFT STATION
- MANHOLES
- HYDRANT
- VALVES (GAS/WAT)
- CURB INLET/BASIN
- YARD INLET/BASIN
- 24" CORRUGATED METAL PIPE
- 24" REINFORCED CONCRETE PIPE END SECTION
- METERS (ELEC/GAS/WATER)
- UTILITY POLE
- LIGHT POLE
- FLOOD LIGHT/YARD LIGHT
- REMOVED 6" DECIDUOUS TREE
- REMOVED 6" CONIFEROUS TREE
- REMOVED 6" DECIDUOUS BUSH/SHRUB
- REMOVED 6" CONIFEROUS BUSH/SHRUB
- REMOVED 24" STUMP
- GUARD METAL POST
- SIGN POST/BILLBOARD POLE
- WATER SURF. EL.

## PROPOSED

## DESCRIPTION

- TO BE ABANDONED
- TO BE REMOVED
- RIGHT OF WAY (ROW)
- EASEMENT (PERMANENT)
- EASEMENT (TEMPORARY)
- ROAD CENTERLINE
- SANITARY SEWER
- WATER MAIN
- FORCE MAIN
- STORM SEWER
- DITCH/SWALE
- FENCE
- CULVERT (CMP UNLESS NOTED)
- CONTOUR
- HIGH POINT
- SAWCUT
- SILT FENCE
- GRAVEL ROAD
- PAVED ROADWAY
- PAVED ROADWAY W/CURB & GUTTER
- STRUCTURE
- PORTLAND CEMENT CONCRETE PAVEMENT
- CONCRETE WALK

## LANDSCAPING LEGEND

- DECIDUOUS TREE (10" ø)
- CONIFEROUS TREE (10" ø)
- DECIDUOUS SHRUB, LARGE (6' ø)
- CONIFEROUS SHRUB, LARGE (6' ø)
- DECIDUOUS SHRUB, MEDIUM (4' ø)
- CONIFEROUS SHRUB, MEDIUM (4' ø)
- DECIDUOUS SHRUB, SMALL (2' ø)
- CONIFEROUS SHRUB, SMALL (2' ø)
- ORNAMENTAL GRASSES
- PERENNIALS
- NO MOW LAWN

PLOT SCALE: 1" = 20' (GRAPHICS) TO C-1 LEGEND.dwg  
 L1: SCALE: 1" = 20' (GRAPHICS) TO C-1 LEGEND.dwg  
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VERIFY SCALES  
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NO. DATE

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BY APVD

**Applied Technologies**  
Engineers - Architects

PUBLIX SUPERMARKETS, INC.  
WASTEWATER PRETREATMENT  
UPGRADES  
DACULA, GEORGIA

PROJECT REFERENCE  
CIVIL  
LEGEND

PROJECT NO. 5634  
DATE 2-25-16  
DRAWING NO. 10-C-1



# ELECTRICAL LEGEND

# ABBREVIATIONS

SYMBOL DESCRIPTION		SYMBOL DESCRIPTION		SYMBOL DESCRIPTION		ABBREV.	DESCR.	ABBREV.	DESCR.															
	PLAN NOTE REFERENCE		CONVENIENCE RECEPTACLE - DUPLEX UNLESS SPECIFIED OTHERWISE WP- WEATHERPROOF C- CLOCK HANGER TL- TWIST LOCK CRE- CORROSION RESISTANT IG- ISOLATED GROUND SS- SURGE SUPPRESSION GFI- GROUND FAULT INTERRUPTER		CONTACT - NORMALLY OPEN WITH NEMA SIZE INDICATED AS APPLICABLE	A	AMMETER, AMPERE	M	MAGNETIC CONTACTOR COIL															
	CONNECTION POINT TO EQUIPMENT SPECIFIED. FURNISHED AND INSTALLED UNDER OTHER DIVISIONS. RACEWAY, CONDUCTOR AND CONNECTION IN DIVISION 16.		ABOVE COUNTER RECEPTACLE-DUPLEX UNLESS SPECIFIED OTHERWISE		CONTACT - NORMALLY CLOSED WITH NEMA SIZE INDICATED AS APPLICABLE	AC	ALTERNATING CURRENT	MCC	MOTOR CONTROL CENTER															
	MAJOR ELECTRICAL COMPONENT OR DEVICE - NAME OR IDENTIFYING SYMBOL AS SHOWN.		CONVENIENCE RECEPTACLE, PEDESTAL, DUPLEX SINGLE FACE UNLESS INDICATED OTHERWISE		OVERLOAD RELAY HEATER	AF	AMPERE FRAME	MCP	MOTOR CIRCUIT PROTECTOR															
	BRANCH CIRCUIT PANEL, BRANCH POWER PANEL		RECEPTACLE - 240V., 10/1 AMPERAGE INDICATED		MAGNETIC STARTER WITH NEMA SIZE INDICATED	AFF	ABOVE FINISHED FLOOR	MDC	MOTORIZED DAMPER CONTROL															
	UNIT HEATER NO.1 SEE SCHEDULE		RECEPTACLE, SPECIAL PURPOSE-AMPERAGE AS INDICATED. VERIFY PLUG CONFIGURATION PRIOR TO ORDERING		CIRCUIT BREAKER, MAGNETIC TRIP ONLY, FRAME SIZE SHOWN, 3 POLE UNLESS INDICATED OTHERWISE.	AFG	ABOVE FINISHED GRADE	MERC	MERCURY VAPOR															
	TELEPHONE TERMINAL CABINET		DUPLEX CONVENIENCE RECEPTACLE-FLUSH IN FLOOR		CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE UNLESS INDICATED OTHERWISE, FRAME SIZE & TRIP RATING SHOWN, IF ADJUSTABLE.	AM	AMMETER	MH	MANHOLE, METAL HALIDE															
	TERMINAL JUNCTION BOX		MULTI OUTLET ASSEMBLY		CIRCUIT BREAKER WITH CURRENT LIMITING FUSES, TRIP AND FUSE RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.	AS	AMMETER SWITCH, AMPERE SENSOR	MMP	MECHANICAL MOUNTING PANEL															
	GENERATOR		GENERAL CONTROL OR WIRING DEVICE. NEMA 1 ENCLOSURE UNLESS INDICATED OTHERWISE. LETTER SYMBOLS OR ABBREVIATIONS INDICATE TYPE OF DEVICE.		FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.	ASC	ADJUSTABLE SPEED CONTROLLER	MO	MOTOR OPERATOR															
	SAME AS 8, BUT SPECIFICALLY A SQUIRREL CAGE INDUCTION MOTOR, X = HORSEPOWER		PUSH-BUTTON STATION, NEMA 1 ENCLOSURE UNLESS INDICATED OTHERWISE. (WP = NEMA 4 ENCLOSURE) SEE CONTROL DIAGRAMS FOR TYPE PUSH BUTTON REQUIRED.		SWITCH - CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.	ASU	AIR SUPPLY UNIT	MS	MOTOR STARTER															
	LUMINAIRE - SEE SCHEDULE		NONFUSED DISCONNECT SWITCH, SIZE INDICATED, 3 POLE UNLESS INDICATED OTHERWISE, NEMA 1 ENCLOSURE, WP = WEATHERPROOF (NEMA 4X)		DRAWOUT AIR CIRCUIT BREAKER, LOW VOLTAGE	AT	AMPERE TRIP	MT, MTD	MOUNT, MOUNTED															
	LUMINAIRE, FLUORESCENT - SEE SCHEDULE		FUSED DISCONNECT SWITCH, SIZE INDICATED (60/40, 60 = SWITCH RATING; 40 = FUSE RATING) 3 POLE UNLESS INDICATED OTHERWISE, NEMA 1 ENCLOSURE, WP = WEATHERPROOF (NEMA 4X)		LIGHTNING ARRESTER WITH SURGE CAPACITOR	B	BELL	N	NEUTRAL															
	LUMINAIRE AND POLE - SEE SCHEDULE		LIGHTING CONTACTOR, CURRENT RATING INDICATED, NEMA 1 ENCLOSURE UNLESS INDICATED OTHERWISE. SEE CONTROL DIAGRAM FOR NUMBER OF POLES.		FUSE	BC	BARE COPPER	NA	NON-AUTOMATIC															
	WALL MOUNTED LUMINAIRE - SEE SCHEDULE		STARTER MAGNETIC NEMA SIZE INDICATED, NEMA 1 ENCLOSURE UNLESS INDICATED OTHERWISE. SEE CONTROL DIAGRAM.		CAPACITOR - KVAR INDICATED	BOP	BRANCH CIRCUIT PANEL	NC	NORMALLY CLOSED															
	FLOOD LIGHTS - SEE SCHEDULE		COMBINATION (FUSE OR CIRCUIT BREAKER AS INDICATED) MAGNETIC STARTER, NEMA SIZE INDICATED, NEMA 1 ENCLOSURE UNLESS INDICATED OTHERWISE. SEE CONTROL DIAGRAM.		METER WITH SWITCH - SCALE RANGE SHOWN	BPP	BRANCH POWER PANEL	NO	NORMALLY OPEN															
	EXIT LIGHTS - SEE SCHEDULE		CONTACTOR, MAGNETIC, NEMA SIZE INDICATED, NEMA 1 ENCLOSURE, UNLESS INDICATED OTHERWISE.		TRANSFORMER, SECONDARY VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE	C	CONDUIT, CONTACTOR	NP	NAMEPLATE															
	OCCUPANCY SENSOR		LIGHTING CONTACTOR, CURRENT RATING INDICATED, NEMA 1 ENCLOSURE UNLESS INDICATED OTHERWISE. SEE CONTROL DIAGRAM FOR NUMBER OF POLES.		PICK-UP SETTING TIME CURRENT CHARACTERISTIC	CAP	CAPACITOR	OL	OVERLOAD RELAY															
	PHOTOCELL		PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN		GROUND FAULT RELAY WITH C.T.	CB	CIRCUIT BREAKER	ONT	OFF-NORMAL-TEST															
	SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE INDICATES SWITCHING. SUBSCRIPT NUMBER AT LUMINAIRE INDICATES CIRCUIT IN PANELBOARD.		PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED		3 POSITION SELECTOR SWITCH MAINTAINED CONTACT	CC	CONTROL CABLE	OS	OCCUPANCY SENSOR															
	WALL SWITCH (WHERE X SUBSCRIPT INDICATES): 2- DOUBLE POLE P- PILOT LIGHT 3- THREE WAY K- KEY OPERATED 4- FOUR WAY D- DIMMER WP- WEATHERPROOF M- INTEGRAL MOTION DETECTION BLANK-SINGLE POLE CRE- CORROSION RESISTANT		MULTI-PARTY DESK TOP COMMUNICATIONS SYSTEM STATION WITH REMOTE AMPLIFIER		TIME DELAY RELAY CONTACT (TIME ACTION INDICATED)	CKT	CIRCUIT	PB	PUSHBUTTON SWITCH															
	CONDUIT DOWN		INTERIOR PAGING TRUMPET SOUND REPRODUCER WITH REMOTE AMPLIFIER, SURFACE MOUNTED.		REMOTE DEVICE	CL	CURRENT LIMIT	CL	CURRENT LIMIT															
	CONDUIT UP		OUTDOOR PAGING TRUMPET SOUND REPRODUCER WITH REMOTE AMPLIFIER, SURFACE MOUNTED.		SELECTOR SWITCH - MAINTAINED CONTACT - CHART IDENTIFIES OPERATION:	CPT	CONTROL POWER TRANSFORMER	P	PHOTOCELL															
	CONDUIT, STUBBED AND CAPPED AS SHOWN		TERMINAL CABINET FOR COMMUNICATIONS SYSTEM	<table border="1"><thead><tr><th rowspan="2">CKT.</th><th colspan="3">POSITION</th></tr><tr><th>HAND</th><th>OFF</th><th>AUTO</th></tr></thead><tbody><tr><td>1</td><td>X</td><td>0</td><td>0</td></tr><tr><td>2</td><td>0</td><td>0</td><td>X</td></tr></tbody></table> X - CLOSED CONTACT O - OPEN CONTACT	CKT.	POSITION			HAND	OFF	AUTO	1	X	0	0	2	0	0	X		CR	CONTROL RELAY	PNL	PANEL
CKT.	POSITION																							
	HAND	OFF	AUTO																					
1	X	0	0																					
2	0	0	X																					
	CABLE TRAY - SEE SPECIFICATIONS		ADJUSTABLE SOLID STATE OR STATIC TRIP CIRCUIT BREAKER, 3 POLE-CONTINUOUS CURRENT TRIP INDICATED		CURRENT TRANSFORMER, NUMBER INDICATED	CRS	CORROSION RESISTANT	PP	POWER PANEL															
	BUS DUCT - SEE SPECIFICATIONS		TYPICAL EQUIPMENT TAG NAME. SEE I&C LEGEND OR ELECTRICAL ABBREVIATIONS FOR EXPLANATION.		INDICATING LIGHT, PUSH-TO-TEST, LETTER INDICATES COLOR	CTS	COATED RIGID STEEL CONDUIT	PS	PRESSURE SWITCH															
	TRENCHING FOR UTILITY COMPANY PRIMARY POWER CUTS		FIRE ALARM HORN		INDICATING LIGHT - LETTER INDICATES COLOR	CT	CURRENT TRANSFORMER	PT	POTENTIAL TRANSFORMER															
	TRENCHING FOR TELEPHONE COMPANY CIRCUITS		FIRE ALARM MANUAL PULL STATION		INTRINSICALLY SAFE RELAY	DC	DIRECT CURRENT DIVISION	RCPT	RECEPTACLE															
	CONCRETE ENCASED CONDUIT		FIRE ALARM AUDIO-VISUAL DEVICE			DC	DIRECT CURRENT DIVISION	RMS	ROOT MEAN SQUARE															
	DIRECT BURIED CONDUIT		FIRE ALARM SYSTEM HEAT DETECTOR			E	EMPTY	RT	REMOTE TELEMETRY															
	DATA RECEPTACLE (SCADA)		FIRE ALARM SMOKE DETECTOR			EF	EXHAUST FAN	RVSS	REDUCED VOLTAGE SOLID-STATE															
	DATA RECEPTACLE (LAN)		FIRE ALARM SMOKE DETECTOR, IN DUCT			EP	EXPLOSION PROOF																	
	TELEPHONE RECEPTACLE					ETD	EXISTING TO BE REMOVED	S	SPARE															
	HOME RUN, WITH DESTINATION "LP-30". EACH HOME RUN REPRESENTS ONE CONDUIT.					ETM	ELAPSED TIME METER	SC	SPEED CONTROL															
	CONDUCTORS: POWER OR INSTRUMENTATION. FOR INSTRUMENTATION WIRING, SEE WIRING LEGEND BELOW.					ETR	EXISTING TO BE REPLACED	SF	SUPPLY FAN															

## INSTRUMENTATION WIRING LEGEND

ABBREVIATION	DESCRIPTION
Ax	2C#16 SHIELDED CABLE (x = NUMBER OF CABLES)
Dx	#14 THHN WIRE (x = NUMBER OF WIRES)
M	1" CONDUIT FOR CABLE SUPPLIED BY MANUFACTURER
Rx	3C#16 SHIELDED CABLE (x = NUMBER OF CABLES) RTD WIRE
Cx	CAT 5E ETHERNET CABLE (x = NUMBER OF CABLES)
SIZE EACH CONDUIT PER NEC; MIN. SIZE 3/4"	

NOTES:  
1. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.  
2. FOR I & C COMPONENTS AND ABBREVIATIONS, SEE I & C LEGEND.  
3. FOR GENERAL ABBREVIATIONS, SEE GENERAL LEGEND.

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PUBLIX SUPERMARKETS, INC.  
WASTEWATER PRETREATMENT  
UPGRADES  
DACULA, GEORGIA

PROJECT REFERENCE  
ELECTRICAL  
LEGEND

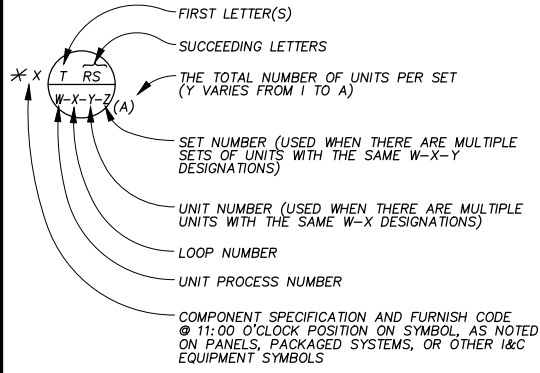
PROJECT NO. DATE  
5634 2-25-16  
DRAWING NO.  
10-E-1

PLOT SCALE: 1" = 20'-0" L1 ESCALE: 1" = 20'-0" L2 ESCALE: 1" = 20'-0" L3 ESCALE: 1" = 20'-0" L4 ESCALE: 1" = 20'-0" L5 ESCALE: 1" = 20'-0" L6 ESCALE: 1" = 20'-0" L7 ESCALE: 1" = 20'-0" L8 ESCALE: 1" = 20'-0" L9 ESCALE: 1" = 20'-0" L10 ESCALE: 1" = 20'-0" L11 ESCALE: 1" = 20'-0" L12 ESCALE: 1" = 20'-0" L13 ESCALE: 1" = 20'-0" L14 ESCALE: 1" = 20'-0" L15 ESCALE: 1" = 20'-0" L16 ESCALE: 1" = 20'-0" L17 ESCALE: 1" = 20'-0" L18 ESCALE: 1" = 20'-0" L19 ESCALE: 1" = 20'-0" L20 ESCALE: 1" = 20'-0" L21 ESCALE: 1" = 20'-0" L22 ESCALE: 1" = 20'-0" L23 ESCALE: 1" = 20'-0" L24 ESCALE: 1" = 20'-0" L25 ESCALE: 1" = 20'-0" L26 ESCALE: 1" = 20'-0" L27 ESCALE: 1" = 20'-0" L28 ESCALE: 1" = 20'-0" L29 ESCALE: 1" = 20'-0" L30 ESCALE: 1" = 20'-0" L31 ESCALE: 1" = 20'-0" L32 ESCALE: 1" = 20'-0" L33 ESCALE: 1" = 20'-0" L34 ESCALE: 1" = 20'-0" L35 ESCALE: 1" = 20'-0" L36 ESCALE: 1" = 20'-0" L37 ESCALE: 1" = 20'-0" L38 ESCALE: 1" = 20'-0" L39 ESCALE: 1" = 20'-0" L40 ESCALE: 1" = 20'-0" L41 ESCALE: 1" = 20'-0" L42 ESCALE: 1" = 20'-0" L43 ESCALE: 1" = 20'-0" L44 ESCALE: 1" = 20'-0" L45 ESCALE: 1" = 20'-0" L46 ESCALE: 1" = 20'-0" L47 ESCALE: 1" = 20'-0" L48 ESCALE: 1" = 20'-0" L49 ESCALE: 1" = 20'-0" L50 ESCALE: 1" = 20'-0" L51 ESCALE: 1" = 20'-0" L52 ESCALE: 1" = 20'-0" L53 ESCALE: 1" = 20'-0" L54 ESCALE: 1" = 20'-0" L55 ESCALE: 1" = 20'-0" L56 ESCALE: 1" = 20'-0" L57 ESCALE: 1" = 20'-0" L58 ESCALE: 1" = 20'-0" L59 ESCALE: 1" = 20'-0" L60 ESCALE: 1" = 20'-0" L61 ESCALE: 1" = 20'-0" L62 ESCALE: 1" = 20'-0" L63 ESCALE: 1" = 20'-0" L64 ESCALE: 1" = 20'-0" L65 ESCALE: 1" = 20'-0" L66 ESCALE: 1" = 20'-0" L67 ESCALE: 1" = 20'-0" L68 ESCALE: 1" = 20'-0" L69 ESCALE: 1" = 20'-0" L70 ESCALE: 1" = 20'-0" L71 ESCALE: 1" = 20'-0" L72 ESCALE: 1" = 20'-0" L73 ESCALE: 1" = 20'-0" L74 ESCALE: 1" = 20'-0" L75 ESCALE: 1" = 20'-0" L76 ESCALE: 1" = 20'-0" L77 ESCALE: 1" = 20'-0" L78 ESCALE: 1" = 20'-0" L79 ESCALE: 1" = 20'-0" L80 ESCALE: 1" = 20'-0" L81 ESCALE: 1" = 20'-0" L82 ESCALE: 1" = 20'-0" L83 ESCALE: 1" = 20'-0" L84 ESCALE: 1" = 20'-0" L85 ESCALE: 1" = 20'-0" L86 ESCALE: 1" = 20'-0" L87 ESCALE: 1" = 20'-0" L88 ESCALE: 1" = 20'-0" L89 ESCALE: 1" = 20'-0" L90 ESCALE: 1" = 20'-0" L91 ESCALE: 1" = 20'-0" L92 ESCALE: 1" = 20'-0" L93 ESCALE: 1" = 20'-0" L94 ESCALE: 1" = 20'-0" L95 ESCALE: 1" = 20'-0" L96 ESCALE: 1" = 20'-0" L97 ESCALE: 1" = 20'-0" L98 ESCALE: 1" = 20'-0" L99 ESCALE: 1" = 20'-0" L100 ESCALE: 1" = 20'-0" L101 ESCALE: 1" = 20'-0" L102 ESCALE: 1" = 20'-0" L103 ESCALE: 1" = 20'-0" L104 ESCALE: 1" = 20'-0" L105 ESCALE: 1" = 20'-0" L106 ESCALE: 1" = 20'-0" L107 ESCALE: 1" = 20'-0" L108 ESCALE: 1" = 20'-0" L109 ESCALE: 1" = 20'-0" L110 ESCALE: 1" = 20'-0" L111 ESCALE: 1" = 20'-0" L112 ESCALE: 1" = 20'-0" L113 ESCALE: 1" = 20'-0" L114 ESCALE: 1" = 20'-0" L115 ESCALE: 1" = 20'-0" L116 ESCALE: 1" = 20'-0" L117 ESCALE: 1" = 20'-0" L118 ESCALE: 1" = 20'-0" L119 ESCALE: 1" = 20'-0" L120 ESCALE: 1" = 20'-0" L121 ESCALE: 1" = 20'-0" L122 ESCALE: 1" = 20'-0" L123 ESCALE: 1" = 20'-0" L124 ESCALE: 1" = 20'-0" L125 ESCALE: 1" = 20'-0" L126 ESCALE: 1" = 20'-0" L127 ESCALE: 1" = 20'-0" L128 ESCALE: 1" = 20'-0" L129 ESCALE: 1" = 20'-0" L130 ESCALE: 1" = 20'-0" L131 ESCALE: 1" = 20'-0" L132 ESCALE: 1" = 20'-0" L133 ESCALE: 1" = 20'-0" L134 ESCALE: 1" = 20'-0" L135 ESCALE: 1" = 20'-0" L136 ESCALE: 1" = 20'-0" L137 ESCALE: 1" = 20'-0" L138 ESCALE: 1" = 20'-0" L139 ESCALE: 1" = 20'-0" L140 ESCALE: 1" = 20'-0" L141 ESCALE: 1" = 20'-0" L142 ESCALE: 1" = 20'-0" L143 ESCALE: 1" = 20'-0" L144 ESCALE: 1" = 20'-0" L145 ESCALE: 1" = 20'-0" L146 ESCALE: 1" = 20'-0" L147 ESCALE: 1" = 20'-0" L148 ESCALE: 1" = 20'-0" L149 ESCALE: 1" = 20'-0" L150 ESCALE: 1" = 20'-0" L151 ESCALE: 1" = 20'-0" L152 ESCALE: 1" = 20'-0" L153 ESCALE: 1" = 20'-0" L154 ESCALE: 1" = 20'-0" L155 ESCALE: 1" = 20'-0" L156 ESCALE: 1" = 20'-0" L157 ESCALE: 1" = 20'-0" L158 ESCALE: 1" = 20'-0" L159 ESCALE: 1" = 20'-0" L160 ESCALE: 1" = 20'-0" L161 ESCALE: 1" = 20'-0" L162 ESCALE: 1" = 20'-0" L163 ESCALE: 1" = 20'-0" L164 ESCALE: 1" = 20'-0" L165 ESCALE: 1" = 20'-0" L166 ESCALE: 1" = 20'-0" L167 ESCALE: 1" = 20'-0" L168 ESCALE: 1" = 20'-0" L169 ESCALE: 1" = 20'-0" L170 ESCALE: 1" = 20'-0" L171 ESCALE: 1" = 20'-0" L172 ESCALE: 1" = 20'-0" L173 ESCALE: 1" = 20'-0" L174 ESCALE: 1" = 20'-0" L175 ESCALE: 1" = 20'-0" L176 ESCALE: 1" = 20'-0" L177 ESCALE: 1" = 20'-0" L178 ESCALE: 1" = 20'-0" L179 ESCALE: 1" = 20'-0" L180 ESCALE: 1" = 20'-0" L181 ESCALE: 1" = 20'-0" L182 ESCALE: 1" = 20'-0" L183 ESCALE: 1" = 20'-0" L184 ESCALE: 1" = 20'-0" L185 ESCALE: 1" = 20'-0" L186 ESCALE: 1" = 20'-0" L187 ESCALE: 1" = 20'-0" L188 ESCALE: 1" = 20'-0" L189 ESCALE: 1" = 20'-0" L190 ESCALE: 1" = 20'-0" L191 ESCALE: 1" = 20'-0" L192 ESCALE: 1" = 20'-0" L193 ESCALE: 1" = 20'-0" L194 ESCALE: 1" = 20'-0" L195 ESCALE: 1" = 20'-0" L196 ESCALE: 1" = 20'-0" L197 ESCALE: 1" = 20'-0" L198 ESCALE: 1" = 20'-0" L199 ESCALE: 1" = 20'-0" L200 ESCALE: 1" = 20'-0" L201 ESCALE: 1" = 20'-0" L202 ESCALE: 1" = 20'-0" L203 ESCALE: 1" = 20'-0" L204 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ESCALE: 1" = 20'-0" L245 ESCALE: 1" = 20'-0" L246 ESCALE: 1" = 20'-0" L247 ESCALE: 1" = 20'-0" L248 ESCALE: 1" = 20'-0" L249 ESCALE: 1" = 20'-0" L250 ESCALE: 1" = 20'-0" L251 ESCALE: 1" = 20'-0" L252 ESCALE: 1" = 20'-0" L253 ESCALE: 1" = 20'-0" L254 ESCALE: 1" = 20'-0" L255 ESCALE: 1" = 20'-0" L256 ESCALE: 1" = 20'-0" L257 ESCALE: 1" = 20'-0" L258 ESCALE: 1" = 20'-0" L259 ESCALE: 1" = 20'-0" L260 ESCALE: 1" = 20'-0" L261 ESCALE: 1" = 20'-0" L262 ESCALE: 1" = 20'-0" L263 ESCALE: 1" = 20'-0" L264 ESCALE: 1" = 20'-0" L265 ESCALE: 1" = 20'-0" L266 ESCALE: 1" = 20'-0" L267 ESCALE: 1" = 20'-0" L268 ESCALE: 1" = 20'-0" L269 ESCALE: 1" = 20'-0" L270 ESCALE: 1" = 20'-0" L271 ESCALE: 1" = 20'-0" L272 ESCALE: 1" = 20'-0" L273 ESCALE: 1" = 20'-0" L274 ESCALE: 1" = 20'-0" L275 ESCALE: 1" = 20'-0" L276 ESCALE: 1" = 20'-0" L277 ESCALE: 1" = 20'-0" L278 ESCALE: 1" = 20'-0" L279 ESCALE: 1" = 20'-0" L280 ESCALE: 1" = 20'-0" L281 ESCALE: 1" = 20'-0" L282 ESCALE: 1" = 20'-0" L283 ESCALE: 1" = 20'-0" L284 ESCALE: 1" = 20'-0" L285 ESCALE: 1" = 20'-0" L286 ESCALE: 1" = 20'-0" L287 ESCALE: 1" = 20'-0" L288 ESCALE: 1" = 20'-0" L289 ESCALE: 1" = 20'-0" L290 ESCALE: 1" = 20'-0" L291 ESCALE: 1" = 20'-0" L292 ESCALE: 1" = 20'-0" L293 ESCALE: 1" = 20'-0" L294 ESCALE: 1" = 20'-0" L295 ESCALE: 1" = 20'-0" L296 ESCALE: 1" = 20'-0" L297 ESCALE: 1" = 20'-0" L298 ESCALE: 1" = 20'-0" L299 ESCALE: 1" = 20'-0" L300 ESCALE: 1" = 20'-0" L301 ESCALE: 1" = 20'-0" L302 ESCALE: 1" = 20'-0" L303 ESCALE: 1" = 20'-0" L304 ESCALE: 1" = 20'-0" L305 ESCALE: 1" = 20'-0" L306 ESCALE: 1" = 20'-0" L307 ESCALE: 1" = 20'-0" L308 ESCALE: 1" = 20'-0" L309 ESCALE: 1" = 20'-0" L310 ESCALE: 1" = 20'-0" L311 ESCALE: 1" = 20'-0" L312 ESCALE: 1" = 20'-0" L313 ESCALE: 1" = 20'-0" L314 ESCALE: 1" = 20'-0" L315 ESCALE: 1" = 20'-0" L316 ESCALE: 1" = 20'-0" L317 ESCALE: 1" = 20'-0" L318 ESCALE: 1" = 20'-0" L319 ESCALE: 1" = 20'-0" L320 ESCALE: 1" = 20'-0" L321 ESCALE: 1" = 20'-0" L322 ESCALE: 1" = 20'-0" L323 ESCALE: 1" = 20'-0" L324 ESCALE: 1" = 20'-0" L325 ESCALE: 1" = 20'-0" L326 ESCALE: 1" = 20'-0" L327 ESCALE: 1" = 20'-0" L328 ESCALE: 1" = 20'-0" L329 ESCALE: 1" = 20'-0" L330 ESCALE: 1" = 20'-0" L331 ESCALE: 1" = 20'-0" L332 ESCALE: 1" = 20'-0" L333 ESCALE: 1" = 20'-0" L334 ESCALE: 1" = 20'-0" L335 ESCALE: 1" = 20'-0" L336 ESCALE: 1" = 20'-0" L337 ESCALE: 1" = 20'-0" L338 ESCALE: 1" = 20'-0" L339 ESCALE: 1" = 20'-0" L340 ESCALE: 1" = 20'-0" L341 ESCALE: 1" = 20'-0" L342 ESCALE: 1" = 20'-0" L343 ESCALE: 1" = 20'-0" L344 ESCALE: 1" = 20'-0" L345 ESCALE: 1" = 20'-0" L346 ESCALE: 1" = 20'-0" L347 ESCALE: 1" = 20'-0" L348 ESCALE: 1" = 20'-0" L349 ESCALE: 1" = 20'-0" L350 ESCALE: 1" = 20'-0" L351 ESCALE: 1" = 20'-0" L352 ESCALE: 1" = 20'-0" L353 ESCALE: 1" = 2

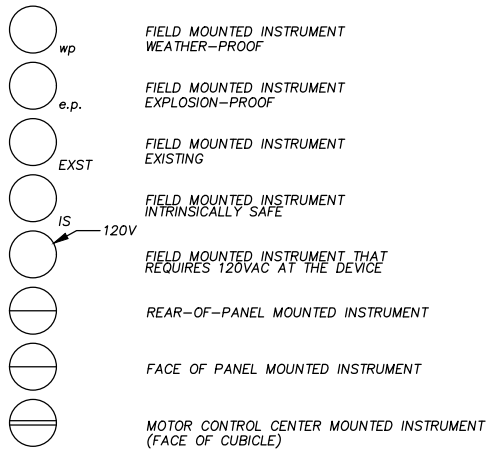
INSTRUMENTATION IDENTIFICATION

INSTRUMENT SOCIETY OF AMERICA TABLE

EXAMPLE SYMBOLS



- None = Specified and furnished via I&C Division 13710
\*M = Specified and furnished in Mechanical/Equipment Division 11 and 15
\*E = Specified and furnished in Electrical Division 16
\*P = Specified and furnished with associated package system
\*01 = Owner furnished, owner installed (OFO)
\*02 = Owner furnished, contractor installed (OFCI)
EXST = Existing equipment



SPECIAL CASES (at 2 o'clock position on symbol)

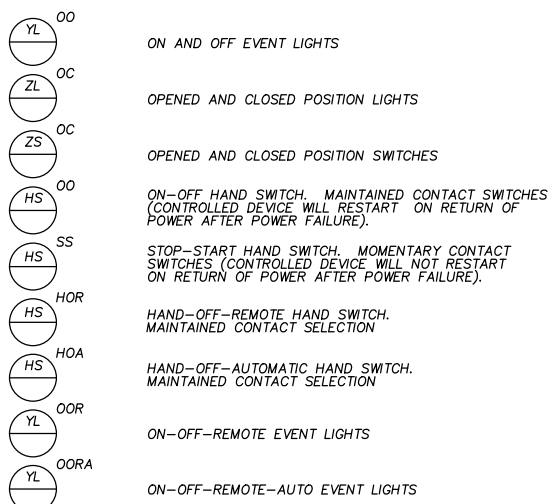


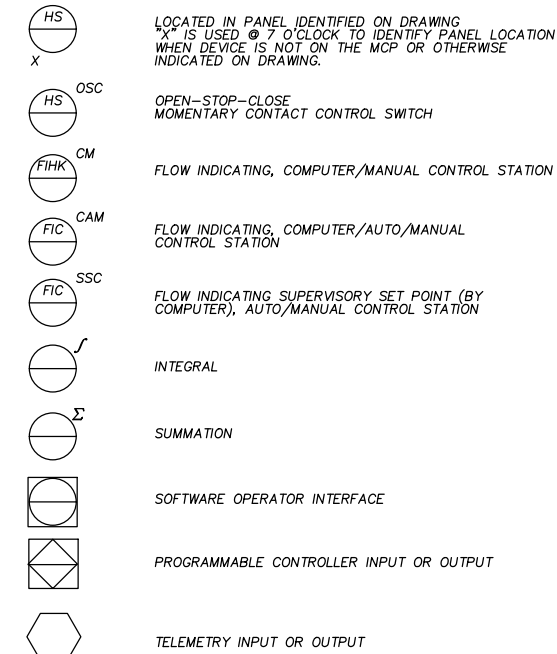
Table with 5 columns: First Letter(s), Process or Initiating Variable, Modifier, Succeeding Letters (Readout or Passive Function, Output Function, Modifier), and Unit Process Number. Rows include Analysis, Burner, User's Choice, Voltage, Flow Rate, Glass, Hand, Current, Power, Time, Level, Momentary, Pressure, Quantity, Radiation, Safety, Temperature, Multivariable, Vibration, Weight, Unclassified, Event, and Position.

\* WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS.

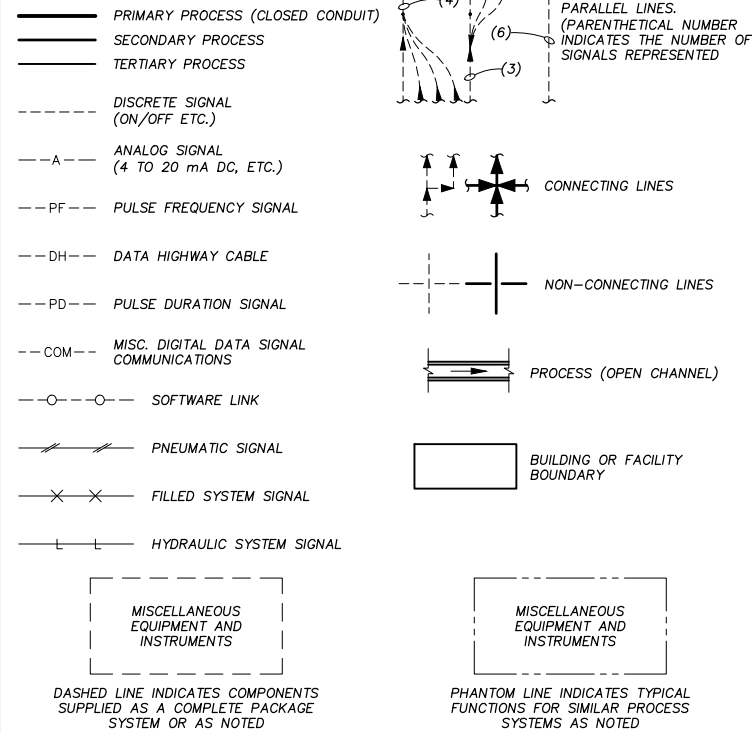
TRANSDUCERS (at 2 o'clock position on symbol)

- A ANALOG, D DIGITAL, E VOLTAGE, F FREQUENCY, I CURRENT, P PNEUMATIC, PF PULSE FREQUENCY, PD PULSE DURATION, I/I SIGNAL ISOLATOR, R/I RESISTANCE TO CURRENT, CT CURRENT TRANSFORMER

INSTRUMENT PANEL LOCATION IDENTIFICATION



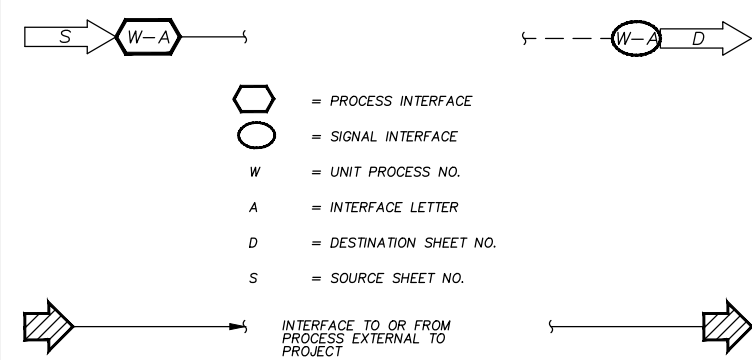
LINE LEGEND



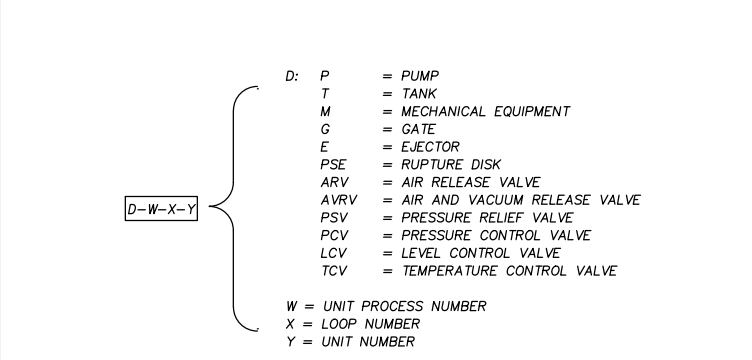
ABBREVIATIONS & LETTER SYMBOLS

- AC ALTERNATING CURRENT, ALK ALKALINITY, AM AUTO-MANUAL, BCP BUILDING CONTROL PANEL, CAM COMPUTER-AUTO-MANUAL, Cl2 CHLORINE, CM COMPUTER-MANUAL, COD CHEMICAL OXYGEN DEMAND, DC DIRECT CURRENT, DCP DIGESTER CONTROL PANEL, DO DISSOLVED OXYGEN, FCl2 FREE CHLORINE RESIDUAL, FOS FAST-OFF-SLOW, FOSA FAST-OFF-SLOW-AUTO, FOSR FAST-OFF-SLOW-REMOTE, FR FORWARD-REVERSE, HDNS HARDNESS, HOA HAND-OFF-AUTO, HOR HAND-OFF-REMOTE, H2S HYDROGEN SULFIDE, LCP-W-X LOCAL CONTROL PANEL, LEL LOWER EXPLOSIVE LIMIT, LOS LOCKOUT STOP, LR LOCAL REMOTE, MA MANUAL-AUTO, MC MODULATE-CLOSE, MCC-X MOTOR CONTROL CENTER NO. X, MCP MAIN CONTROL PANEL, OC OPEN-CLOSE, OCA OPEN-CLOSE-AUTO, OCR OPEN-CLOSE-REMOTE, OO OFF-ON, OOA OFF-ON-AUTO, OOR OFF-ON-REMOTE, PCP PROCESS CONTROL PANEL, OSC OPEN-STOP-CLOSE, pH HYDROGEN ION CONCENTRATION, RM-X REMOTE MULTIPLEXING MODULE NO. X, RTD RESISTANCE TEMPERATURE DETECTOR, SF SLOWER-FASTER, SS START-STOP, SSC SUPERVISORY SET POINT CONTROL, TC THERMOCOUPLE, VB VIBRATION, D DIFFERENCE, n SUM, x MULTIPLY, / DIVIDE, f(x) CHARACTERIZED, x^n RAISE TO THE Nth POWER, e SQUARE ROOT, AVG AVERAGE, 1:1 REPEAT OR BOOST, > SELECT HIGHEST SIGNAL, < SELECT LOWEST SIGNAL

INTERFACE SYMBOLS



SELF CONTAINED VALVE AND EQUIPMENT TAG NUMBERS



GENERAL NOTES

1. THIS IS A STANDARD LEGEND. NOT ALL INFORMATION SHOWN MAY BE USED ON THIS PROJECT.

PLTSCALE: 1, 3, LEGEND (GRAFFICHS) DEPT(MG) 10-1-1 LEGEND.dwg, Last Modified: 18 August 2015, Plotted On: 2/25/2016 11:15 AM by DAN A. KIERZEK, Copyright © 2015, Applied Technologies, Inc.

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VERIFY SCALES LENGTH OF BAR IS 1" ON ORIGINAL DRAWING, 1:2 PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY

- PRELIMINARY - NOT FOR CONSTRUCTION, REVISION, BY, APVD

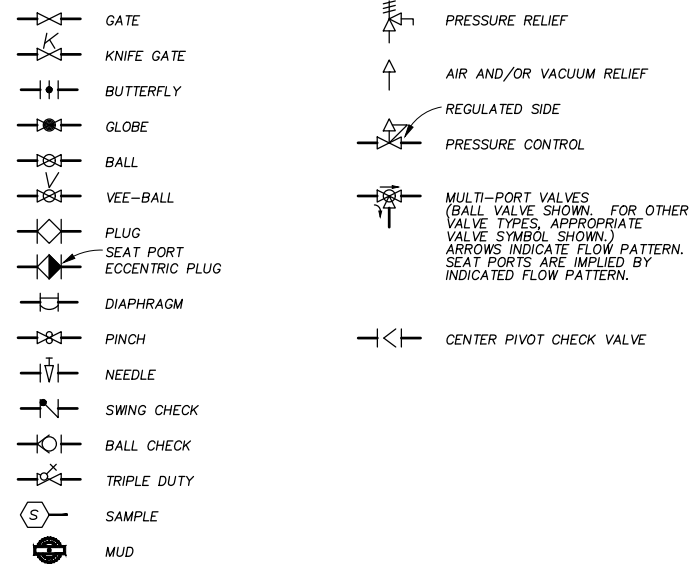


PUBLIX SUPERMARKETS, INC. WASTEWATER PRETREATMENT UPGRADES DACULA, GEORGIA

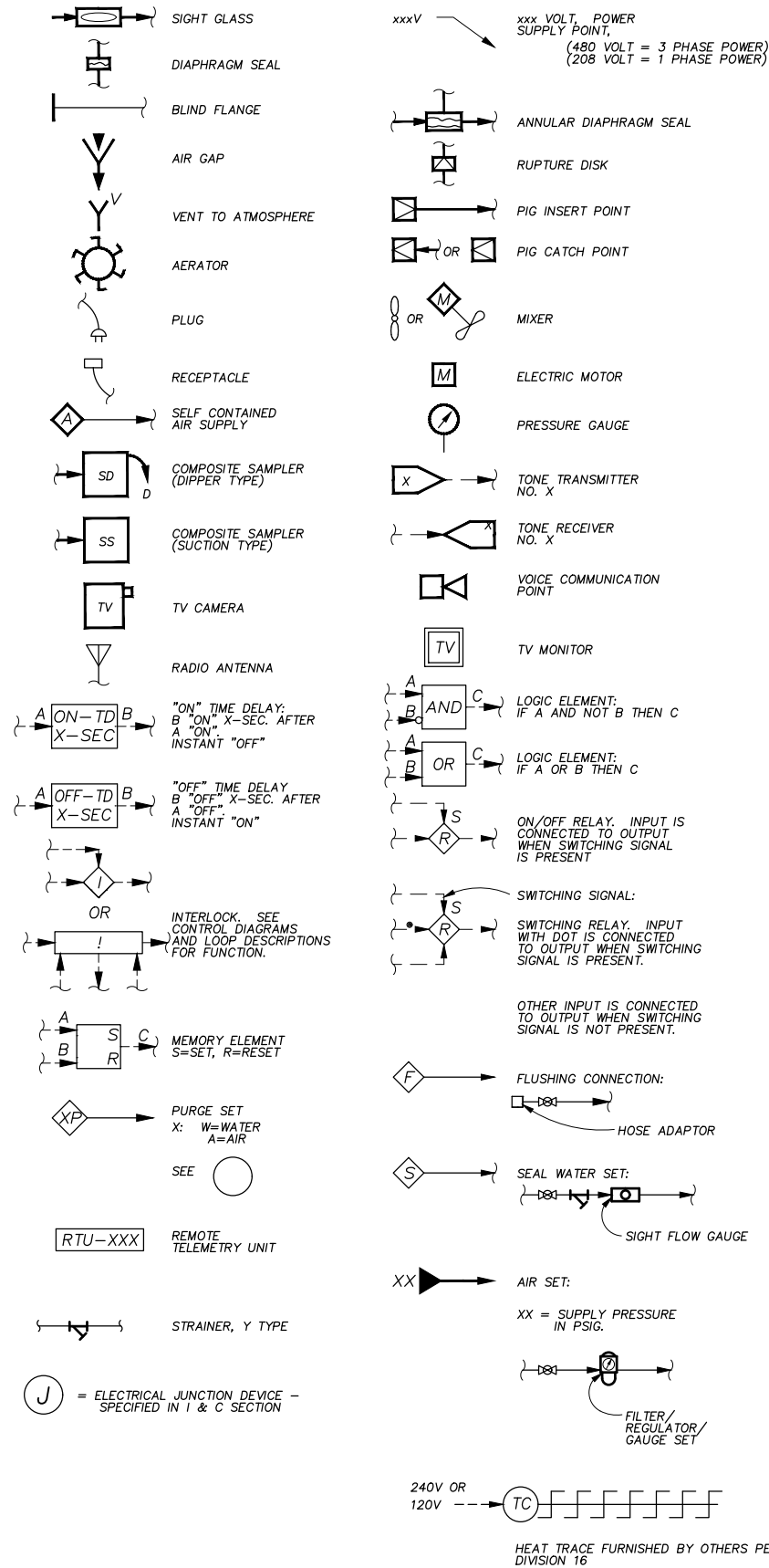
PROJECT REFERENCE INSTRUMENTATION & CONTROL LEGEND

PROJECT NO. 5634, DATE 2-25-16, DRAWING NO. 10-1-1

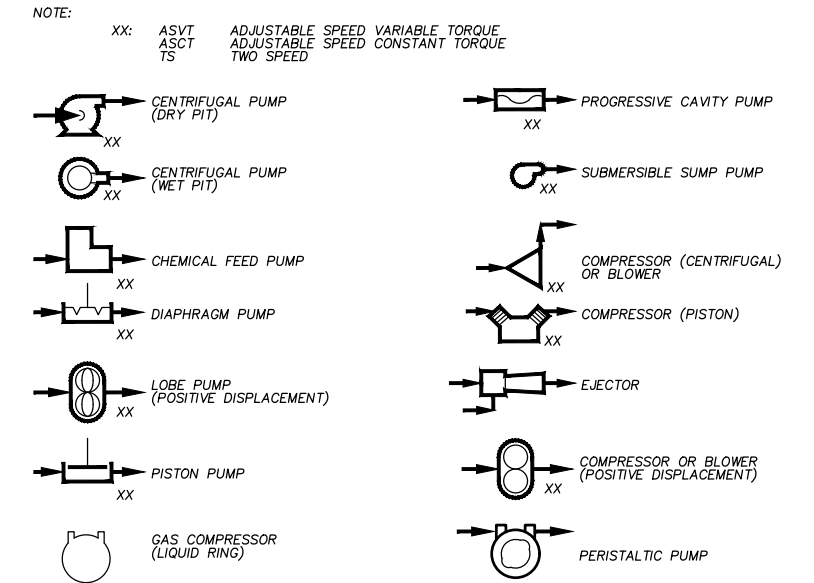
### VALVE SYMBOLS



### MISCELLANEOUS SYMBOLS



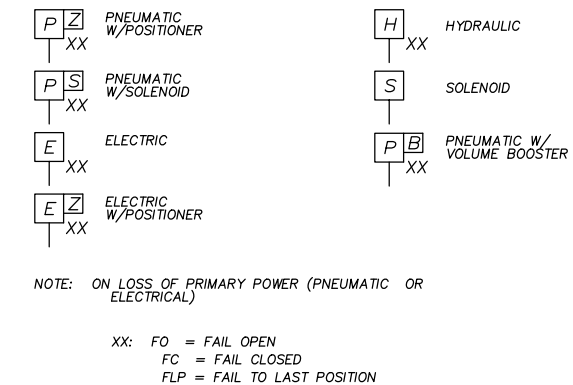
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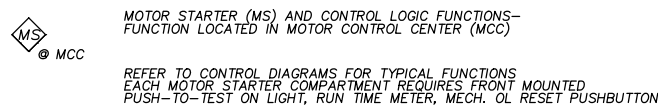
### GATE SYMBOLS



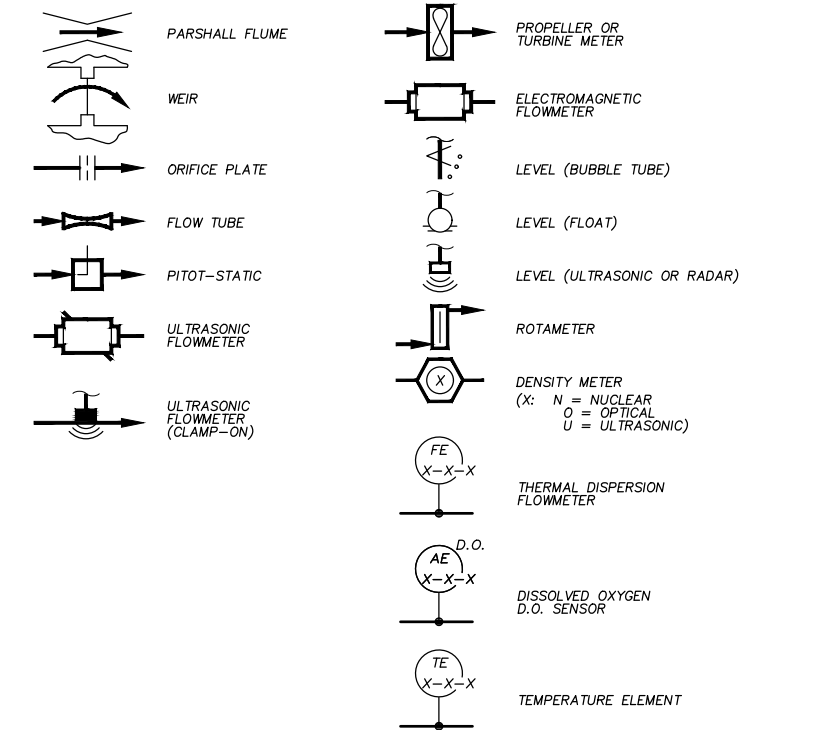
### ACTUATOR SYMBOLS



### MOTOR CONTROL INTERFACE



### PRIMARY ELEMENT SYMBOLS



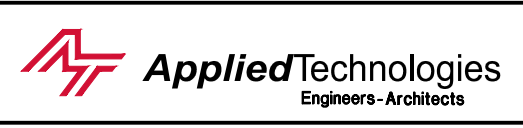
NOTE:  
1. THIS IS A STANDARD LEGEND. NOT ALL INFORMATION SHOWN MAY BE USED ON THIS PROJECT.

PLOT SCALE: 1" = 1' (GRAVIMETRIC) TO -2 LEGEND.dwg  
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DESIGNED BY	E.A.L.
DRAWN BY	J.T.H.
CHECKED BY	
APPROVED BY	

VERIFY SCALES  
LENGTH OF BAR IS 1" ON ORIGINAL DRAWING  
1:2  
PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY

- PRELIMINARY - NOT FOR CONSTRUCTION	
NO.	DATE
REVISION	BY
	APVD

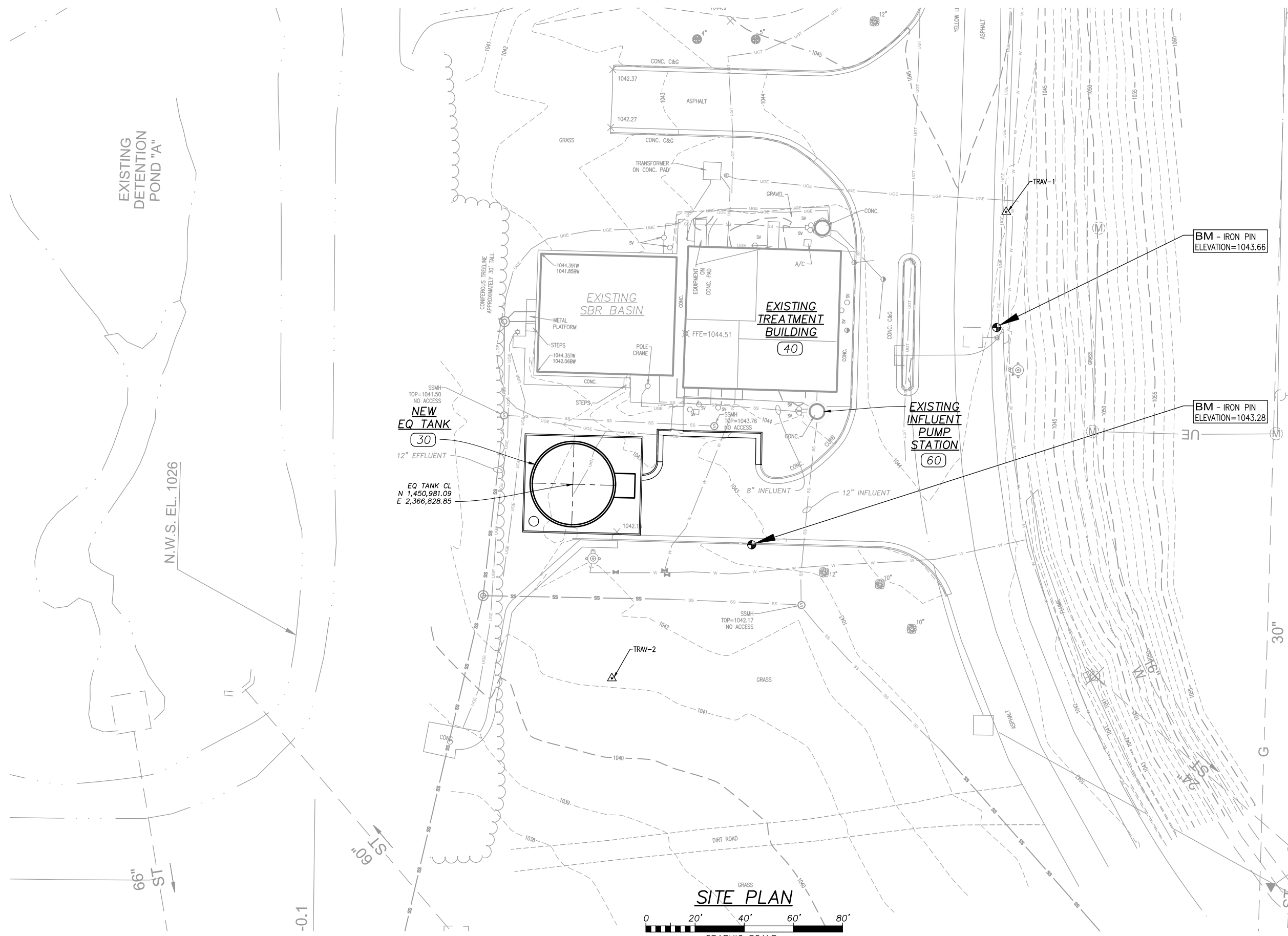


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UPGRADES  
DACULA, GEORGIA

PROJECT REFERENCE  
INSTRUMENTATION & CONTROL  
LEGEND

PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
10-1-2	

PLSCALE: 1:25000 (GRAPHICS) (DRAWINGS) 20-C-1 SITE PLAN.dwg  
 Last Modified: 15 February 2016 11:16 AM by DAN A. KIERZEK  
 PLOTSCALE: 1:25000 (GRAPHICS) (DRAWINGS) 20-C-1 SITE PLAN.dwg  
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GRID NORTH  
 NAD 83 GA WEST ZONE  
 GEOID 2012A

BM - IRON PIN  
 ELEVATION=1043.66

BM - IRON PIN  
 ELEVATION=1043.28

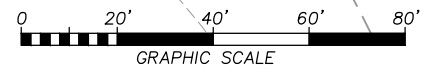
NEW  
 EQ TANK  
 (30)

EXISTING  
 INFLUENT  
 PUMP  
 STATION  
 (60)

EXISTING  
 SBR BASIN

EXISTING  
 TREATMENT  
 BUILDING  
 (40)

**SITE PLAN**



- NOTES:**
1. TOPOGRAPHIC SURVEY PROVIDED BY McKIM & CREED, LAWRENCEVILLE, GEORGIA.
  2. ON-SITE UNDERGROUND UTILITIES LOCATED BY RHD SERVICES, INC., OR OTHERWISE PROVIDED BY PUBLIX SUPERMARKETS, INC.
  3. COORDINATES ARE BASED ON NAD 83, GEORGIA STATE PLANE COORDINATE SYSTEM, WEST ZONE. VERTICAL DATUM IS NAVD 88.

SITE CONTROL

	N	E	EL
TRAV-1	1,451,090.82	2,367,006.11	1,044.27
TRAV-2	1,450,901.08	2,366,845.69	1,040.93

DESIGNED BY E.A.L.  
 DRAWN BY J.T.H./P.C.G.  
 CHECKED BY .  
 APPROVED BY .

VERIFY SCALES  
 LENGTH OF BAR IS 1" ON ORIGINAL DRAWING  
 1:2  
 PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY

- PRELIMINARY -  
 NOT FOR CONSTRUCTION

NO. DATE REVISION BY APVD



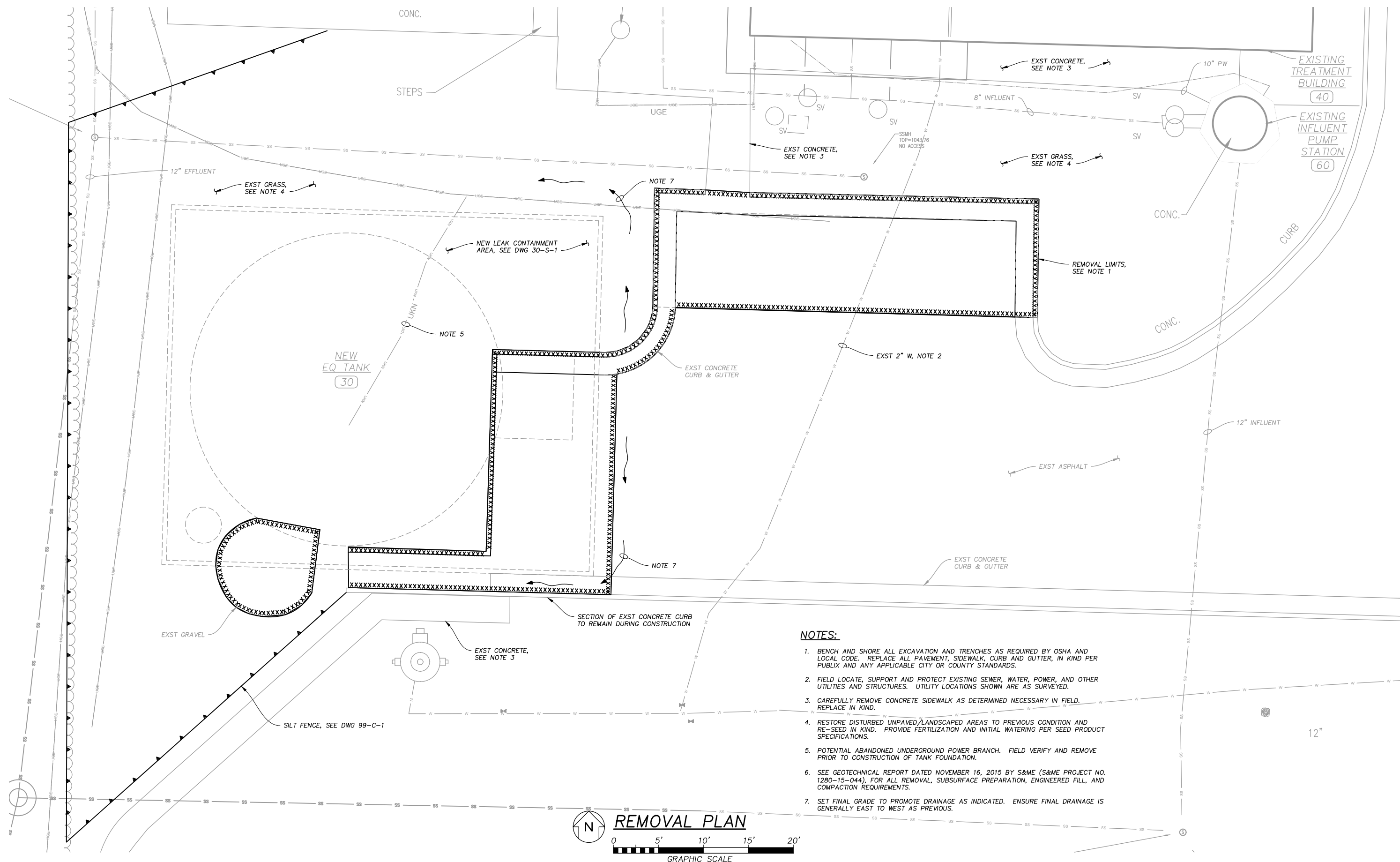
PUBLIX SUPERMARKETS, INC.  
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SITE WORK  
 GENERAL  
 SITE PLAN

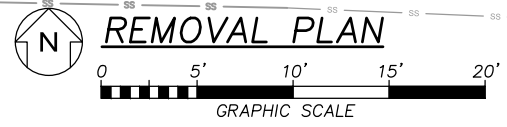
PROJECT NO. 5634  
 DATE 2-25-16  
 DRAWING NO. 20-G-1



PLOT SCALE: 1" = 20' (GRAPHICS) (DIMENSIONS) 30'-CR-1 PLAN.dwg  
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- NOTES:**
- BENCH AND SHORE ALL EXCAVATION AND TRENCHES AS REQUIRED BY OSHA AND LOCAL CODE. REPLACE ALL PAVEMENT, SIDEWALK, CURB AND GUTTER, IN KIND PER PUBLIC AND ANY APPLICABLE CITY OR COUNTY STANDARDS.
  - FIELD LOCATE, SUPPORT AND PROTECT EXISTING SEWER, WATER, POWER, AND OTHER UTILITIES AND STRUCTURES. UTILITY LOCATIONS SHOWN ARE AS SURVEYED.
  - CAREFULLY REMOVE CONCRETE SIDEWALK AS DETERMINED NECESSARY IN FIELD. REPLACE IN KIND.
  - RESTORE DISTURBED UNPAVED/LANDSCAPED AREAS TO PREVIOUS CONDITION AND RE-SEED IN KIND. PROVIDE FERTILIZATION AND INITIAL WATERING PER SEED PRODUCT SPECIFICATIONS.
  - POTENTIAL ABANDONED UNDERGROUND POWER BRANCH. FIELD VERIFY AND REMOVE PRIOR TO CONSTRUCTION OF TANK FOUNDATION.
  - SEE GEOTECHNICAL REPORT DATED NOVEMBER 16, 2015 BY S&M (S&M PROJECT NO. 1280-15-044), FOR ALL REMOVAL, SUBSURFACE PREPARATION, ENGINEERED FILL, AND COMPACTION REQUIREMENTS.
  - SET FINAL GRADE TO PROMOTE DRAINAGE AS INDICATED. ENSURE FINAL DRAINAGE IS GENERALLY EAST TO WEST AS PREVIOUS.



**- PRELIMINARY -**  
**NOT FOR CONSTRUCTION**



**PUBLIX SUPERMARKETS, INC.**  
**WASTEWATER PRETREATMENT**  
**UPGRADES**  
**DACULA, GEORGIA**

**SITE WORK**  
**CIVIL/REMOVAL**  
**PLAN**

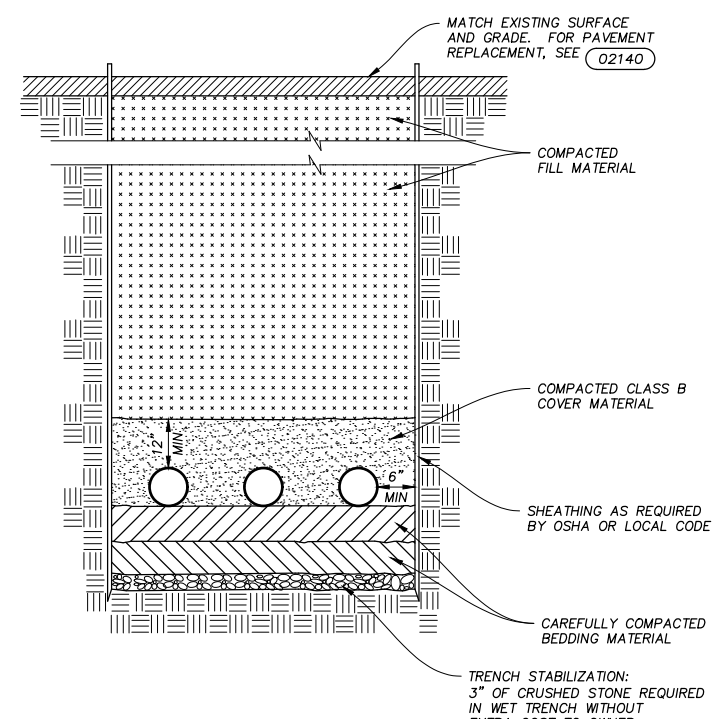
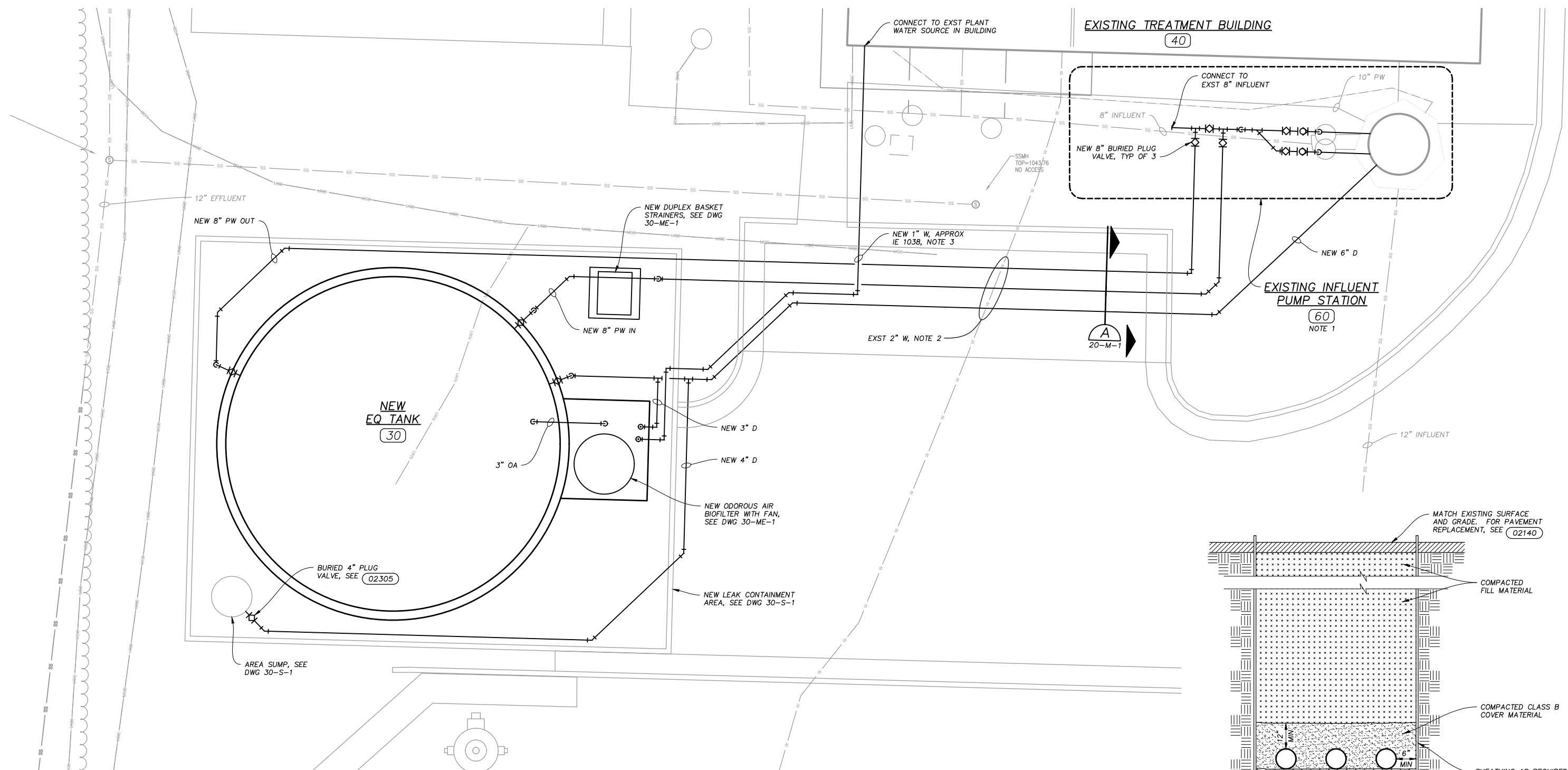
PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
20-CR-1	

DESIGNED BY	E.A.L.
DRAWN BY	D.A.K.
CHECKED BY	
APPROVED BY	

VERIFY SCALES  
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 PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY

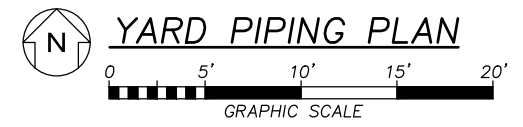
NO.	DATE	REVISION	BY	APVD

PLOT SCALE: 1" = 10' (SEE DWG 30-ME-1) PLANT DWG  
 3/15/24 (CRAIG) (S) (D) (M) (S) 30-M-1 PLANT DWG  
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- NOTES:**
- CONTRACTOR SHALL PROVIDE TEMPORARY PUMP-AROUND SERVICE WHILE NEW PUMPS AND PIPING ARE INSTALLED. ALL SOURCES OF INFLUENT TO THE PUMP STATION SHALL BE ACCOUNTED FOR DURING BYPASS. CONTRACTOR SHALL SUBMIT BYPASS PLAN FOR REVIEW AND COORDINATE ALL DETAILS WITH PUBLIX WWTP OPERATOR.
  - EXISTING 2" WATER LINE, ESTIMATED DEPTH 4 FEET BELOW GRADE. FIELD VERIFY POSITION AND DEPTH. MAKE MINOR DEPTH ADJUSTMENTS TO NEW PIPING TO AVOID.
  - NEW 1" PLANT WATER TO ODOROUS AIR BIOFILTER. COORDINATE WATER SOURCE WITH ENGINEER AND PUBLIX WWTP OPERATOR. MINIMUM BURY DEPTH 4 FEET. PROTECT EXISTING UTILITIES.
  - SEE DWG 30-ME-1 AND DWG 60-ME-1 FOR UNDERGROUND PIPE ELEVATIONS.
  - INSTALL UNDERGROUND DI PIPE WITH MECHANICAL RESTRAINED JOINTS AND FITTINGS.

PIPE SCHEDULE				
SERVICE	LEGEND	INSTALLATION	MATERIAL	REMARKS
PROCESS WASTEWATER	PW	BURIED	CLDI	MECHANICAL JOINTS AND FITTINGS, PIPE BAGGING PER SPEC SECTION 15000
PROCESS WASTEWATER	PW	EXPOSED	CLDI	
PLANT WATER	W	EXPOSED / BURIED	COPPER	INSULATE EXPOSED PIPE, TAPE WRAP BURIED PIPE PER SPEC SECTION 15000
TANK / SITE DRAINS	D	EXPOSED / BURIED	CLDI	
ODOROUS AIR	OA	EXPOSED	PVC	
BLOWER AIR	ALP	EXPOSED	DI	NOT CEMENT LINED - MATCH EXISTING



TYPICAL TRENCH SECTION A  
 NTS 20-M-1

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PUBLIX SUPERMARKETS, INC.  
 WASTEWATER PRETREATMENT  
 UPGRADES  
 DACULA, GEORGIA

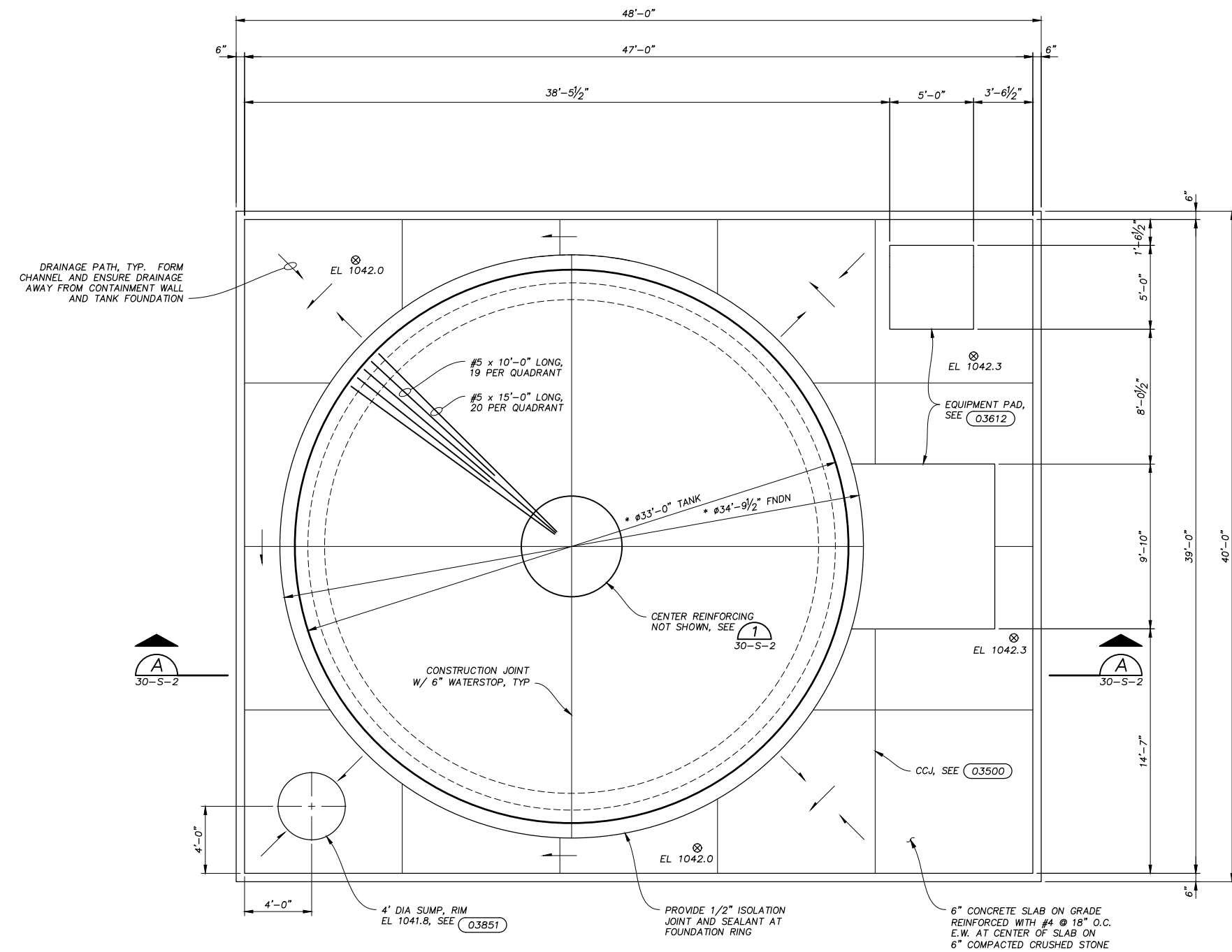
SITE WORK  
 MECHANICAL  
 PLAN, SCHEDULE, AND SECTION

PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
20-M-1	

DESIGNED BY	E.A.L.	VERIFY SCALES							
DRAWN BY	P.C.G./D.A.K.	LENGTH OF BAR IS 1" ON ORIGINAL DRAWING							
CHECKED BY		1:2							
APPROVED BY		PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY							
			NO.	DATE	REVISION	BY	APVD		

**STRUCTURAL NOTES:**

1. TANK FOUNDATIONS ARE TO BE PLACED IN ALTERNATING QUADRANTS.
2. ALL LAP SPLICES FOR CIRCUMFERENTIAL REINFORCEMENT IN RING BEAM AND IN SLAB SHALL BE ACI CLASS B LAPS, SEE (03201). ALL SPLICES IN CIRCUMFERENTIAL REINFORCEMENT SHALL BE STAGGERED, SIM TO (03203).
3. TANK ANCHORAGE BY MANUFACTURER. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR ANCHORAGE INSTALLATION.
4. TANK SHALL BE LEAK-TESTED IN ACCORDANCE WITH AWWA D103-09 PRIOR TO SERVICE.



**STRUCTURAL DATA**

<b>LOADING INFORMATION</b>	
GOVERNING CODE:	2012 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS
<b>DEAD LOADS</b>	
EQ TANK	27.8 KIPS
<b>LIVE LOADS</b>	
ROOF	20 PSF
<b>FLUID LOADS</b>	
WASTEWATER AT S.G. = 1.0 APPROXIMATE LIQUID HEIGHT	1,617 KIPS 30 FT
<b>SOIL LOAD:</b>	
SOILS REPORT: REPORT NO. 1280-15-044, DATED NOVEMBER 16, 2015 BY S&ME, INC.	
ALLOWABLE SAFE BEARING PRESSURE	2,000 PSF
SOIL DENSITY	125 PCF
AT-REST LATERAL PRESSURE	60 PSF
PASSIVE LATERAL PRESSURE	300 PCF
<b>SNOW LOAD</b>	
GROUND SNOW LOAD (Pg)	5 PSF
<b>WIND LOAD</b>	
ULTIMATE DESIGN WIND SPEED: (VUH)	115 MPH
NOMINAL DESIGN WIND SPEED: (Vasd)	89 MPH
RISK CATEGORY:	II
WIND EXPOSURE:	C
<b>SEISMIC LOAD</b>	
RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR (Ie)	1.00
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:	S <sub>s</sub> = 0.250 S <sub>1</sub> = 0.090
SITE CLASS:	D
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:	S <sub>DS</sub> = 0.267 S <sub>1</sub> = 0.144
SEISMIC DESIGN CATEGORY	D
BASIC SEISMIC FORCE-RESISTING SYSTEM:	RIGID STRUCTURE
SEISMIC RESPONSE MODIFICATION COEFFICIENT (R):	2.5
SEISMIC RESPONSE COEFFICIENT (Cs):	0.107
BASE SHEAR (EMPTY):	2.975
ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE ANALYSIS

\* VERIFY WITH TANK SUPPLIER



PLOT SCALE: 1/4" = 1'-0" (SEE 30-S-1 PLAN & SECTION)   
 DESIGNED BY: B.A.G.   
 DRAWN BY: J.T.H.   
 CHECKED BY:   
 APPROVED BY:   
 LAST MODIFIED: 24 February 2016   
 PLOTTED ON: 2/25/2016 11:17 AM BY DAN A. KIERZEK   
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DRAWN BY	J.T.H.
CHECKED BY	
APPROVED BY	

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1:2  
PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY

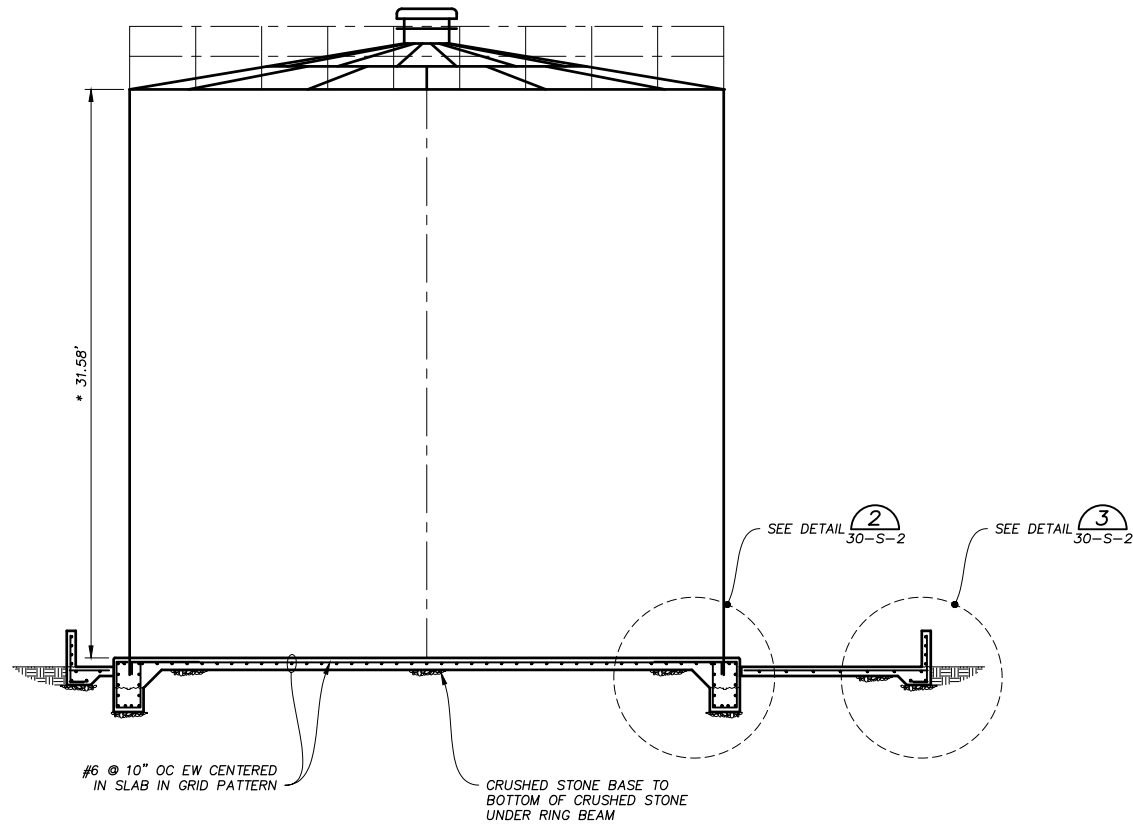
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NO.	DATE
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	APVD



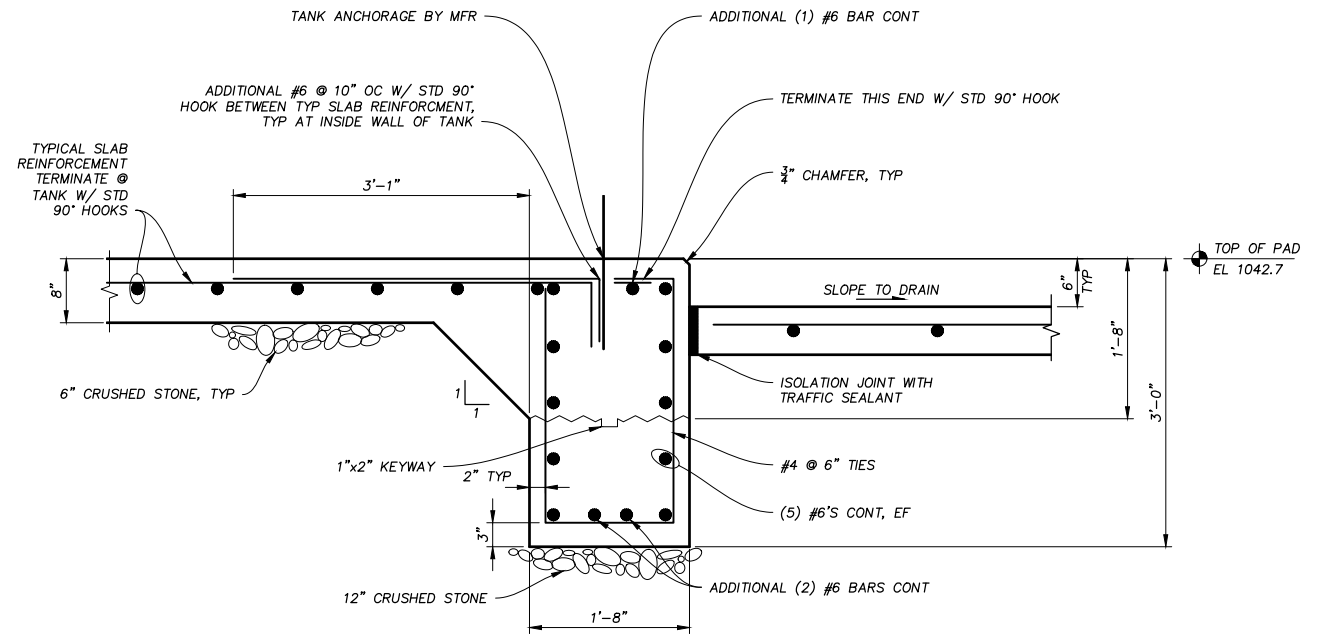
PUBLIX SUPERMARKETS, INC.  
WASTEWATER PRETREATMENT  
UPGRADES  
DACULA, GEORGIA

EQUALIZATION  
STRUCTURAL  
PLAN & SECTION

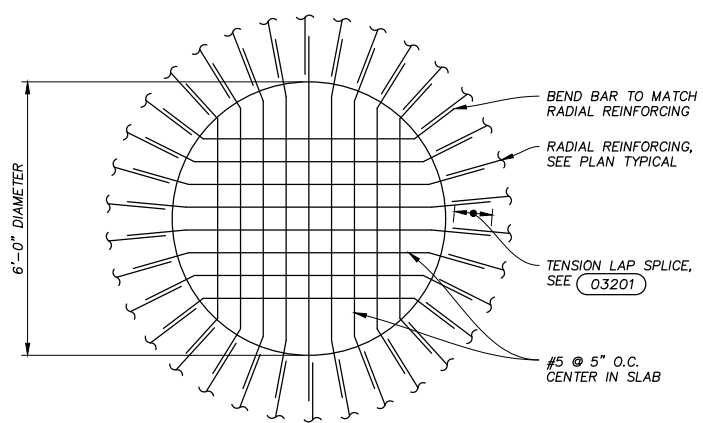
PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
30-S-1	



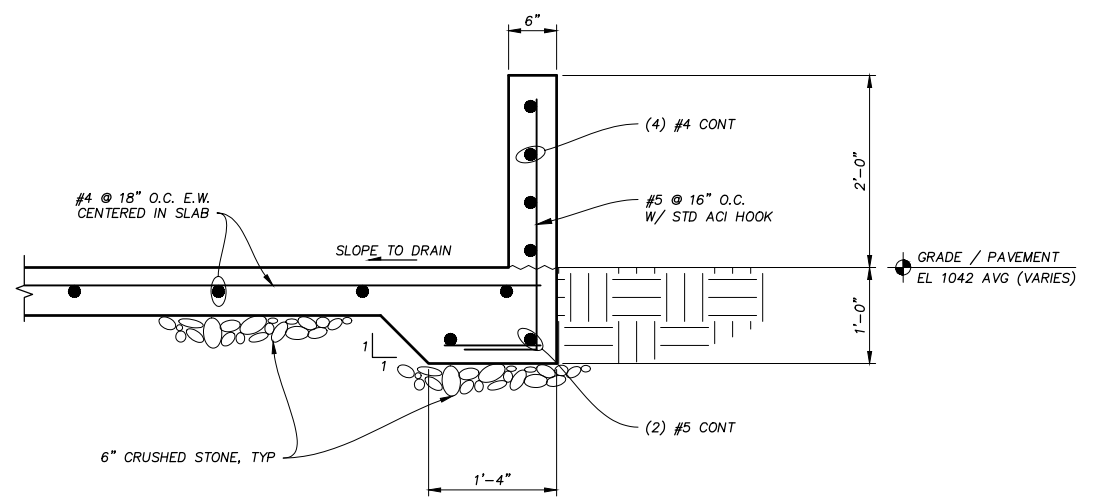
\* VERIFY WITH TANK SUPPLIER  
**SECTION A**  
 3/16" = 1'-0" 30-S-1



**DETAIL 2**  
 3/8" = 1'-0" 30-S-2



**TANK CENTER REINFORCING**  
**DETAIL 1**  
 NTS 30-S-1



**DETAIL 3**  
 3/8" = 1'-0" 30-S-2

PLOT SCALE: 1/8" = 1'-0" L1 SCALE: 1/8" = 1'-0" L2 SCALE: 1/8" = 1'-0" L3 SCALE: 1/8" = 1'-0" L4 SCALE: 1/8" = 1'-0" L5 SCALE: 1/8" = 1'-0" L6 SCALE: 1/8" = 1'-0" L7 SCALE: 1/8" = 1'-0" L8 SCALE: 1/8" = 1'-0" L9 SCALE: 1/8" = 1'-0" L10 SCALE: 1/8" = 1'-0" L11 SCALE: 1/8" = 1'-0" L12 SCALE: 1/8" = 1'-0" L13 SCALE: 1/8" = 1'-0" L14 SCALE: 1/8" = 1'-0" L15 SCALE: 1/8" = 1'-0" L16 SCALE: 1/8" = 1'-0" L17 SCALE: 1/8" = 1'-0" L18 SCALE: 1/8" = 1'-0" L19 SCALE: 1/8" = 1'-0" L20 SCALE: 1/8" = 1'-0" L21 SCALE: 1/8" = 1'-0" L22 SCALE: 1/8" = 1'-0" L23 SCALE: 1/8" = 1'-0" L24 SCALE: 1/8" = 1'-0" L25 SCALE: 1/8" = 1'-0" L26 SCALE: 1/8" = 1'-0" L27 SCALE: 1/8" = 1'-0" L28 SCALE: 1/8" = 1'-0" L29 SCALE: 1/8" = 1'-0" L30 SCALE: 1/8" = 1'-0" L31 SCALE: 1/8" = 1'-0" L32 SCALE: 1/8" = 1'-0" L33 SCALE: 1/8" = 1'-0" L34 SCALE: 1/8" = 1'-0" L35 SCALE: 1/8" = 1'-0" L36 SCALE: 1/8" = 1'-0" L37 SCALE: 1/8" = 1'-0" L38 SCALE: 1/8" = 1'-0" L39 SCALE: 1/8" = 1'-0" L40 SCALE: 1/8" = 1'-0" L41 SCALE: 1/8" = 1'-0" L42 SCALE: 1/8" = 1'-0" L43 SCALE: 1/8" = 1'-0" L44 SCALE: 1/8" = 1'-0" L45 SCALE: 1/8" = 1'-0" L46 SCALE: 1/8" = 1'-0" L47 SCALE: 1/8" = 1'-0" L48 SCALE: 1/8" = 1'-0" L49 SCALE: 1/8" = 1'-0" L50 SCALE: 1/8" = 1'-0" L51 SCALE: 1/8" = 1'-0" L52 SCALE: 1/8" = 1'-0" L53 SCALE: 1/8" = 1'-0" L54 SCALE: 1/8" = 1'-0" L55 SCALE: 1/8" = 1'-0" L56 SCALE: 1/8" = 1'-0" L57 SCALE: 1/8" = 1'-0" L58 SCALE: 1/8" = 1'-0" L59 SCALE: 1/8" = 1'-0" L60 SCALE: 1/8" = 1'-0" L61 SCALE: 1/8" = 1'-0" L62 SCALE: 1/8" = 1'-0" L63 SCALE: 1/8" = 1'-0" L64 SCALE: 1/8" = 1'-0" L65 SCALE: 1/8" = 1'-0" L66 SCALE: 1/8" = 1'-0" L67 SCALE: 1/8" = 1'-0" L68 SCALE: 1/8" = 1'-0" L69 SCALE: 1/8" = 1'-0" L70 SCALE: 1/8" = 1'-0" L71 SCALE: 1/8" = 1'-0" L72 SCALE: 1/8" = 1'-0" L73 SCALE: 1/8" = 1'-0" L74 SCALE: 1/8" = 1'-0" L75 SCALE: 1/8" = 1'-0" L76 SCALE: 1/8" = 1'-0" L77 SCALE: 1/8" = 1'-0" L78 SCALE: 1/8" = 1'-0" L79 SCALE: 1/8" = 1'-0" L80 SCALE: 1/8" = 1'-0" L81 SCALE: 1/8" = 1'-0" L82 SCALE: 1/8" = 1'-0" L83 SCALE: 1/8" = 1'-0" L84 SCALE: 1/8" = 1'-0" L85 SCALE: 1/8" = 1'-0" L86 SCALE: 1/8" = 1'-0" L87 SCALE: 1/8" = 1'-0" L88 SCALE: 1/8" = 1'-0" L89 SCALE: 1/8" = 1'-0" L90 SCALE: 1/8" = 1'-0" L91 SCALE: 1/8" = 1'-0" L92 SCALE: 1/8" = 1'-0" L93 SCALE: 1/8" = 1'-0" L94 SCALE: 1/8" = 1'-0" L95 SCALE: 1/8" = 1'-0" L96 SCALE: 1/8" = 1'-0" L97 SCALE: 1/8" = 1'-0" L98 SCALE: 1/8" = 1'-0" L99 SCALE: 1/8" = 1'-0" L100 SCALE: 1/8" = 1'-0"

DESIGNED BY	B.A.G.
DRAWN BY	J.T.H.
CHECKED BY	
APPROVED BY	

VERIFY SCALES  
 LENGTH OF BAR IS 1" ON ORIGINAL DRAWING  
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 PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY

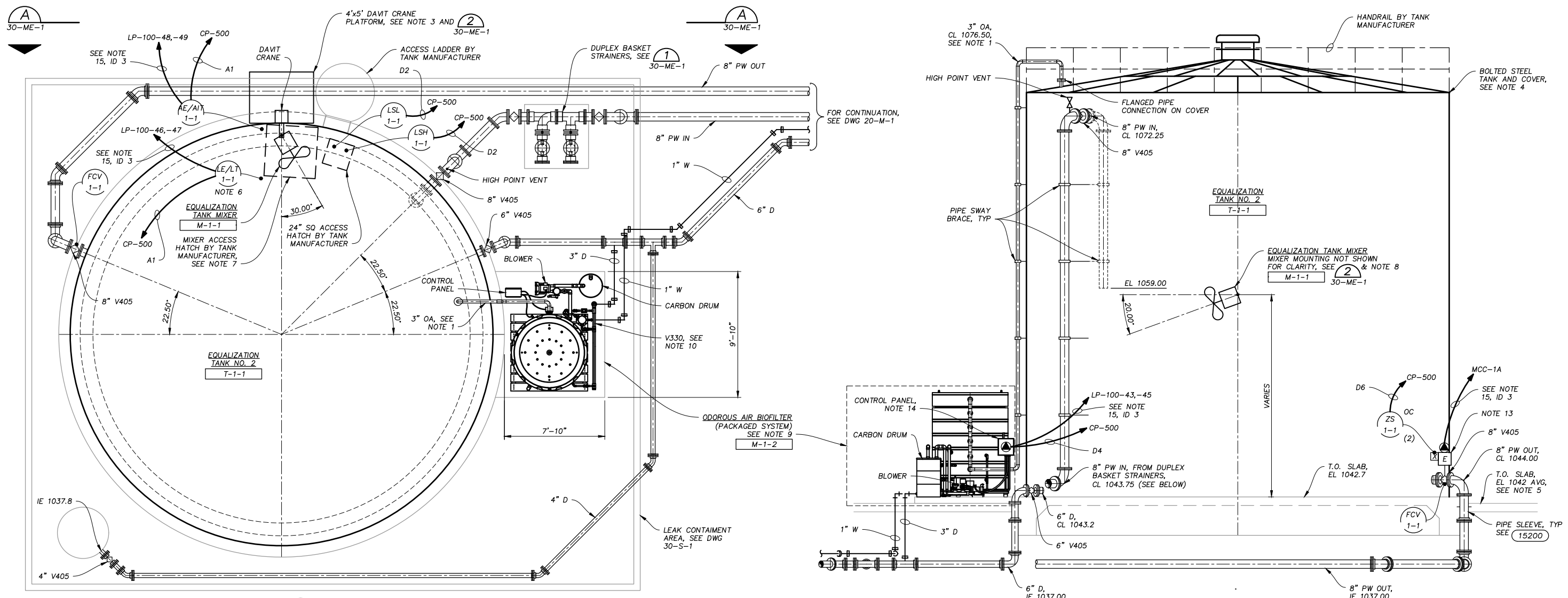
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PUBLIX SUPERMARKETS, INC.  
 WASTEWATER PRETREATMENT  
 UPGRADES  
 DACULA, GEORGIA

EQUALIZATION  
 STRUCTURAL  
 SECTION & DETAILS

PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
30-S-2	



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

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

**LOOKING SOUTH**

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

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

**NOTES:**

- SLOPE ODOROUS AIR PIPE BACK TO TANK FOR CONDENSATE DRAIN.
- MIXER FLOOR MOUNTING, LIFTING CABLE, AND MIXER MAST BY MANUFACTURER. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
- CRANE PLATFORM WITH SUPPORTS, HANDRAILS, AND CRANE MOUNTING BY TANK MANUFACTURER. SEE DETAIL 2 ON THIS DRAWING.
- FACTORY COATED, BOLTED STEEL TANK AND COVER BY TANK CONNECTION, SOUTHEASTERN TANK, OR EQUAL.
- SLAB ELEVATION VARIES FOR DRAINAGE. FOR LEAK CONTAINMENT AREA DETAILS SEE DRAWING 30-S-1.
- CONFIRM LEVEL SENSOR NOZZLE SIZE WITH SENSOR MANUFACTURER.
- CONFIRM MIXER ACCESS HATCH SIZE WITH MIXER MANUFACTURER.
- SUBMERSIBLE MIXER XYLEM-FLYGT MODEL SR-4640, OR APPROVED EQUAL. MIXER SHALL BE SUPPLIED WITH FLOOR MOUNTED MAST, POWER AND SENSOR CABLES, AND SST LIFTING CABLE. SPLIT POWER / SENSOR CABLE PER 16260.
- PACKAGED ODOR CONTROL SYSTEM, BIOREM BIOCUBE, OR APPROVED EQUAL. PACKAGE SHALL INCLUDE BLOWER, CARBON POLISHING DRUM, AND ALL PIPING AND WIRING ON SKID. BLOWER MOTOR STARTER AND ALL CONTROLS SHALL BE IN VENDOR-SUPPLIED LOCAL CONTROL PANEL.
- REDUCE 3" D AND 1" W TO RESPECTIVE SKID PIPE SIZE AND ATTACH WITH SHUTOFF VALVES.
- INSTALL ALL UNDERGROUND DI PIPE WITH MECHANICAL RESTRAINED JOINTS AND FITTINGS.
- PROVIDE NON-FUSED DISCONNECT AS DISCONNECTING MEANS OF NEW 480V, 4HP TANK MIXER. MOUNT TO ACCESS PLATFORM HANDRAIL.
- NEW 480V VALVE OPERATOR.
- PROVIDE 208V / 1PH CONNECTION TO SERVE NEW BIOFILTER.
- SEE FEEDER SCHEDULE ON DRAWING 50-E-2 FOR POWER WIRING. FOR CONTROL WIRING, SEE LEGEND ON DRAWING 10-E-1.
- PROVIDE GROUNDING FOR ALL EQUIPMENT PER NEC.

PLS SCALE: 1/4" = 1'-0" (SCALE) TO ME-1 PLAN AND DETAILS.dwg  
 3/15/2016 11:17 AM by DAN A. KIERZEK  
 Last Modified: 2/25/2016 11:17 AM by DAN A. KIERZEK  
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DRAWN BY	J.T.H./D.A.K.
CHECKED BY	
APPROVED BY	

VERIFY SCALES  
LENGTH OF BAR IS 1" ON ORIGINAL DRAWING  
1:2  
PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY

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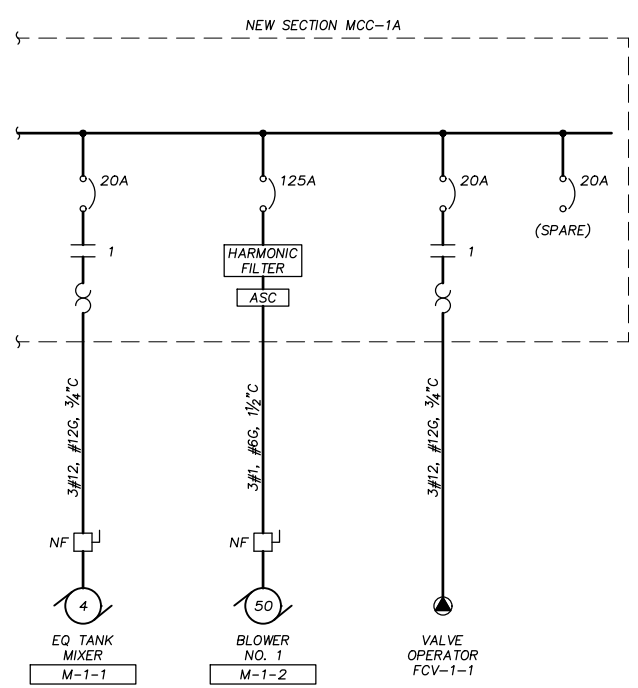
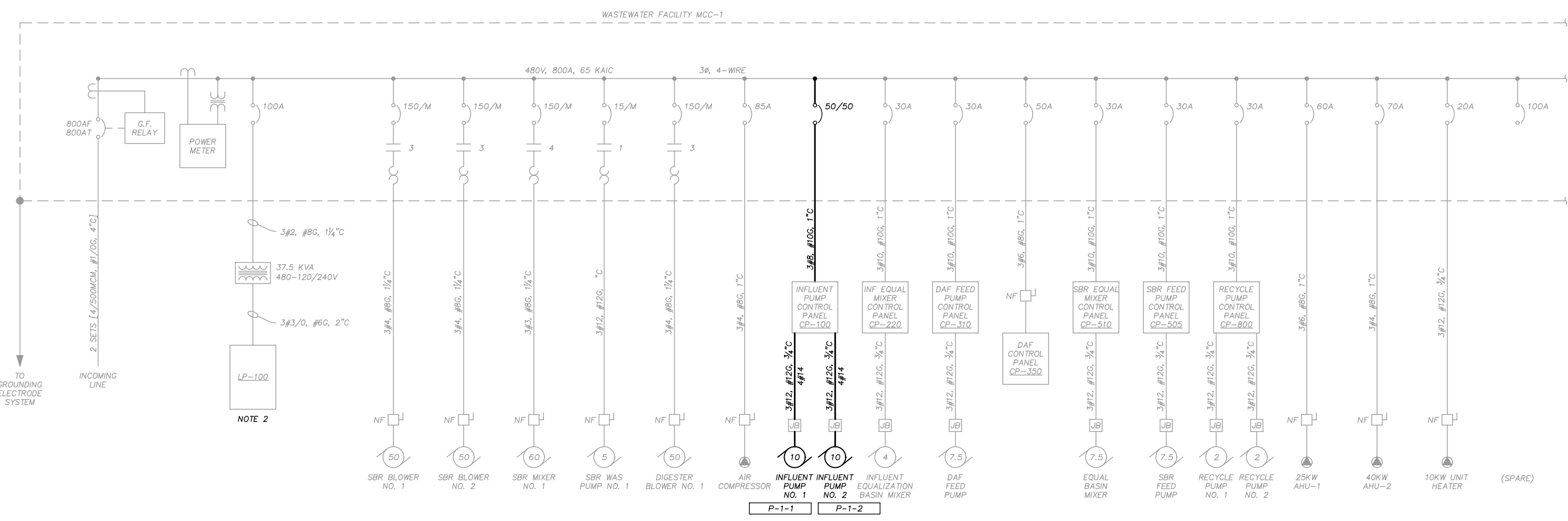
**PUBLIX SUPERMARKETS, INC.**  
**WASTEWATER PRETREATMENT**  
**UPGRADES**  
**DACULA, GEORGIA**

**EQUALIZATION**  
**MECHANICAL/ELECTRICAL**  
**PLAN AND DETAILS**

PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
30-ME-1	



PLS SCALE: 1:1 SCALE: 1:1  
 3:\VE34\GRAPHICS\DRAWINGS\50-E-1 ONE-LINE DIAGRAM.dwg  
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 Last Modified: 24 February 2016 11:18 AM by DAN A. KIERZEK  
 Plotted On: 2/25/2016 11:18 AM by DAN A. KIERZEK



- NOTES:**
1. THE SIZES OF MAGNETIC-ONLY BRANCH CIRCUIT BREAKERS SHOWN SHALL BE CONFIRMED BY FIELD INSPECTION.
  2. SEE MODIFICATIONS TO EXISTING PANEL LP-100 ON DRAWINGS 40-SME-1 AND 50-E-2.

**ONE-LINE DIAGRAM – EXISTING AND NEW WORK**  
NTS

- PRELIMINARY -  
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PUBLIX SUPERMARKETS, INC.  
 WASTEWATER PRETREATMENT  
 UPGRADES  
 DACULA, GEORGIA

**WASTEWATER PRETREATMENT  
 ELECTRICAL  
 ONE-LINE DIAGRAM**

PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
50-E-1	

DESIGNED BY	G.A.G.	VERIFY SCALES LENGTH OF BAR IS 1" ON ORIGINAL DRAWING 1:2 PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY	NO.	DATE	REVISION	BY	APVD
DRAWN BY	J.T.H.						
CHECKED BY							
APPROVED BY							

# FEEDER SCHEDULE

ID #	AMPS	SINGLE PHASE, 2 WIRE		1 OR 3 PHASE, 3 WIRE		THREE PHASE, 4 WIRE		ALL EQUIP. GRD. CONDUCTOR
		CND SIZE	PHASE CONDUCTORS	CND SIZE	PHASE CONDUCTORS	CND SIZE	PHASE CONDUCTORS	
1	10	3/4"	(2) #12	3/4"	(3) #12	3/4"	4#12	#12
2	15	3/4"	(2) #12	3/4"	(3) #12	3/4"	4#12	#12
3	20	3/4"	(2) #12	3/4"	(3) #12	3/4"	4#12	#12
4	25	3/4"	(2) #10	3/4"	(3) #10	3/4"	4#10	#10
5	30	3/4"	(2) #10	3/4"	(3) #10	3/4"	4#10	#10
6	35	3/4"	(2) #8	3/4"	(3) #8	3/4"	4#8	#10
7	40	3/4"	(2) #8	3/4"	(3) #8	3/4"	4#8	#10
8	45	3/4"	(2) #8	3/4"	(3) #8	3/4"	4#8	#10
9	50	3/4"	(2) #8	3/4"	(3) #8	3/4"	4#8	#10
10	60	3/4"	(2) #6	3/4"	(3) #6	1"	4#6	#10
11	70	1"	(2) #4	1"	(3) #4	1-1/4"	4#4	#8
12	80	1"	(2) #4	1"	(3) #4	1-1/4"	4#4	#8
13	90	1"	(2) #3	1-1/4"	(3) #3	1-1/4"	4#3	#8
14	100	1"	(2) #3	1-1/4"	(3) #3	1-1/4"	4#3	#8
15	110	1"	(2) #2	1-1/4"	(3) #2	1-1/2"	4#2	#6
16	125	1"	(2) #1	1-1/2"	(3) #1	1-1/2"	4#1	#6
17	150	1-1/4"	(2) #1/0	1-1/2"	(3) #1/0	2"	4#1/0	#6
18	175	1-1/4"	N/A	2"	(3) #2/0	2"	4#2/0	#6
19	200	N/A	N/A	2"	(3) #3/0	2"	4#3/0	#6
20	225	N/A	N/A	2"	(3) #4/0	2-1/2"	4#4/0	#4
21	250	N/A	N/A	2-1/2"	(4) 250 kcmil	3"	(4) 250 kcmil	#4
22	300	N/A	N/A	3"	(4) 350 kcmil	3"	(4) 350 kcmil	#4
23	350	N/A	N/A	3"	(4) 500 kcmil	3-1/2"	(4) 500 kcmil	#3
24	400	N/A	N/A	(2) 2"	2 SETS OF (3) #3/0	(2) 2"	2 SETS OF (4) #3/0	#3
25	450	N/A	N/A	(2) 2"	2 SETS OF (3) #4/0	(2) 2-1/2"	2 SETS OF (4) #4/0	#2
26	500	N/A	N/A	(2) 2-1/2"	2 SETS OF (3) 250 kcmil	(2) 3"	2 SETS OF (4) 250 kcmil	#2
27	600	N/A	N/A	(2) 3"	2 SETS OF (3) 350 kcmil	(2) 3"	2 SETS OF (4) 350 kcmil	#1
28	700	N/A	N/A	(2) 3"	2 SETS OF (3) 500 kcmil	(2) 3-1/2"	2 SETS OF (4) 500 kcmil	#1/0
29	800	N/A	N/A	(3) 2-1/2"	3 SETS OF (3) 300 kcmil	(3) 3"	3 SETS OF (4) 300 kcmil	#1/0
30	900	N/A	N/A	(3) 3"	3 SETS OF (3) 350 kcmil	(3) 3"	3 SETS OF (4) 350 kcmil	#2/0
31	1000	N/A	N/A	(4) 2-1/2"	4 SETS OF (3) 250 kcmil	(4) 3"	4 SETS OF (4) 250 kcmil	#2/0
32	1200	N/A	N/A	(4) 3"	4 SETS OF (3) 350 kcmil	(4) 3"	4 SETS OF (4) 350 kcmil	#3/0
33	1600	N/A	N/A	(5) 3"	5 SETS OF (3) 400 kcmil	(5) 3"	5 SETS OF (4) 400 kcmil	#4/0
34	1800	N/A	N/A	(6) 3"	6 SETS OF (3) 350 kcmil	(6) 3"	6 SETS OF (4) 350 kcmil	250 kcmil
35	2000	N/A	N/A	(6) 3"	6 SETS OF (3) 500 kcmil	(6) 3-1/2"	6 SETS OF (4) 500 kcmil	250 kcmil
36	2500	N/A	N/A	(8) 3"	8 SETS OF (3) 400 kcmil	(8) 3"	8 SETS OF (4) 400 kcmil	350 kcmil
37	3000	N/A	N/A	(8) 3"	8 SETS OF (4) 500 kcmil	(8) 3-1/2"	8 SETS OF (4) 500 kcmil	400 kcmil

Ampacities based on N.E.C. Table 310.16, for 75 degree C conductors.

Conductor sizes indicated are minimum sizes. Ampacities of conductors do not take voltage drop into consideration. Contractor shall size conductors for feeders and branch circuits to prevent a voltage drop exceeding 3 percent at the farthest outlet of power, heating, and lighting loads, or combination of such loads, and where the maximum total voltage drop on both feeders and branch circuits to the farthest outlet does not exceed 5 percent, to provide reasonable efficiency of operation.

# PANEL LP-100

MOUNT		SPACES		LOCATION		VOLTAGE		PH	WIRE	MAIN BUS RATING			MCB	MLO	WIRE			CONDUIT		
SURFACE		42		OFFICE		208/120		3	4	225A			200A	=	SEE FEEDER SCHEDULE			SEE FEEDER SCHEDULE		
POLE NO.	BREAKER	POLE	AMP	OUTLET			DESCRIPTION	VA	PHASE LOAD VA			DESCRIPTION	OUTLET			BREAKER			POLE NO.	
				LGT	REC	MIS			A	B	C		LGT	REC	MIS	POLE	AMP	NO.		
1	1	20	X				EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	2	
3	1	20	X				EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	4	
5	1	20	X				EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	6	
7	1	20	X				EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	8	
9	1	20	X				EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	10	
11	1	20	X				EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	12	
13	1	20	X				EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	14	
15	1	20	X				EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	16	
17	1	20			X		EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			2	20	18	
19	1	20			X		EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			2	20	20	
21	1	20			X		EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	22	
23	1	20		X			EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	24	
25	1	20			X		EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			2	20	26	
27	1	20			X		EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	28	
29	1	20			X		EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	30	
31	1	20			X		EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	32	
33	1	20			X		EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			2	30	34	
35	2	20			X		EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	36	
37	1	20			X		EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	38	
39	1	20			X		EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	40	
41	2	100			X		EXISTING TRANSFERRED LOAD					EXISTING TRANSFERRED LOAD		X			1	20	42	
43	2	20			X		ODOROUS AIR BIOFILTER *												44	
45	2	20			X														46	
47	1	20			X		LT 1-1												48	
49	1	20			X		AIT1-1												50	
51																			52	
53																			54	

\* INCLUDES BIOFILTER BLOWER MOTOR M-1-2

PLS SCALE: 1:2  
 3:16341 (BRANCHES) DRAWINGS) E0--E-2\_SCHEDULES.dwg  
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 CHECKED BY .  
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VERIFY SCALES  
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 1:2  
 PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY

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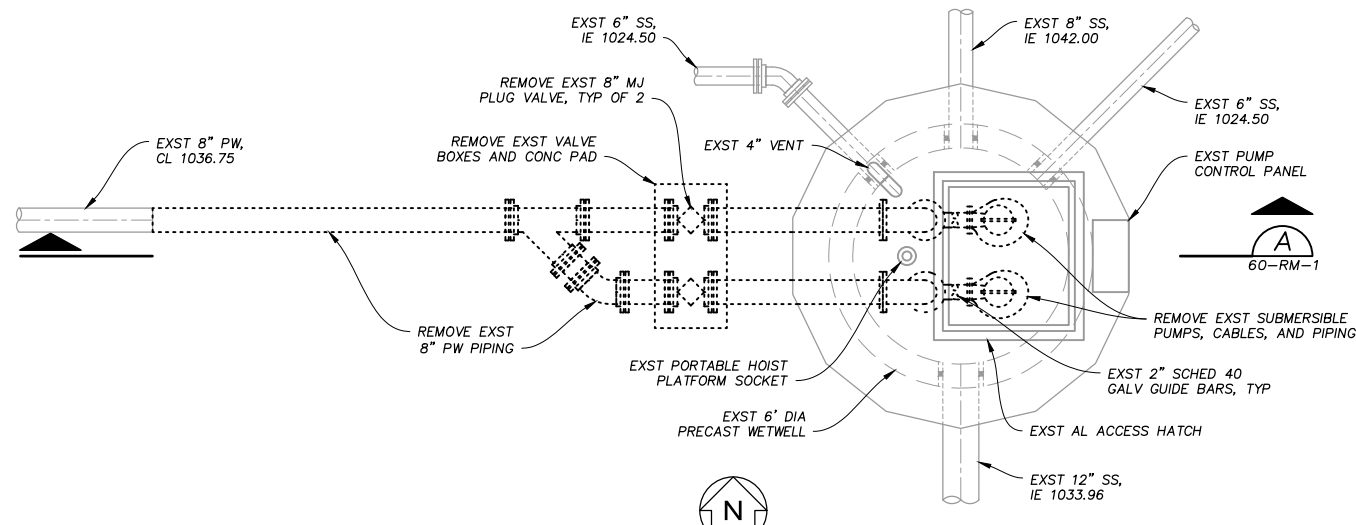


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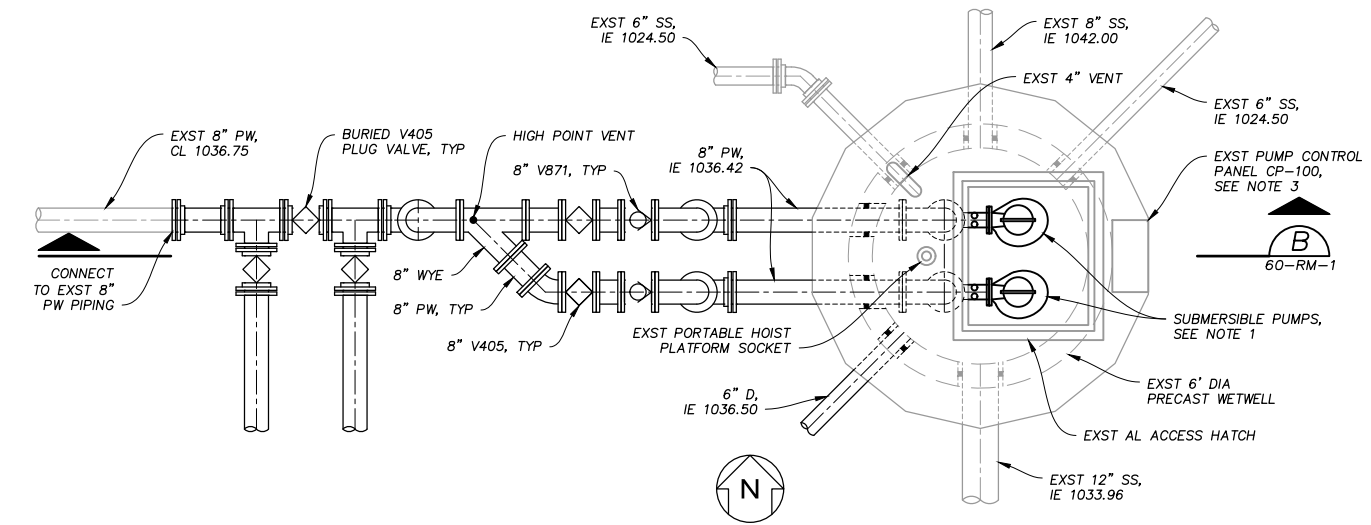
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PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
50-E-2	

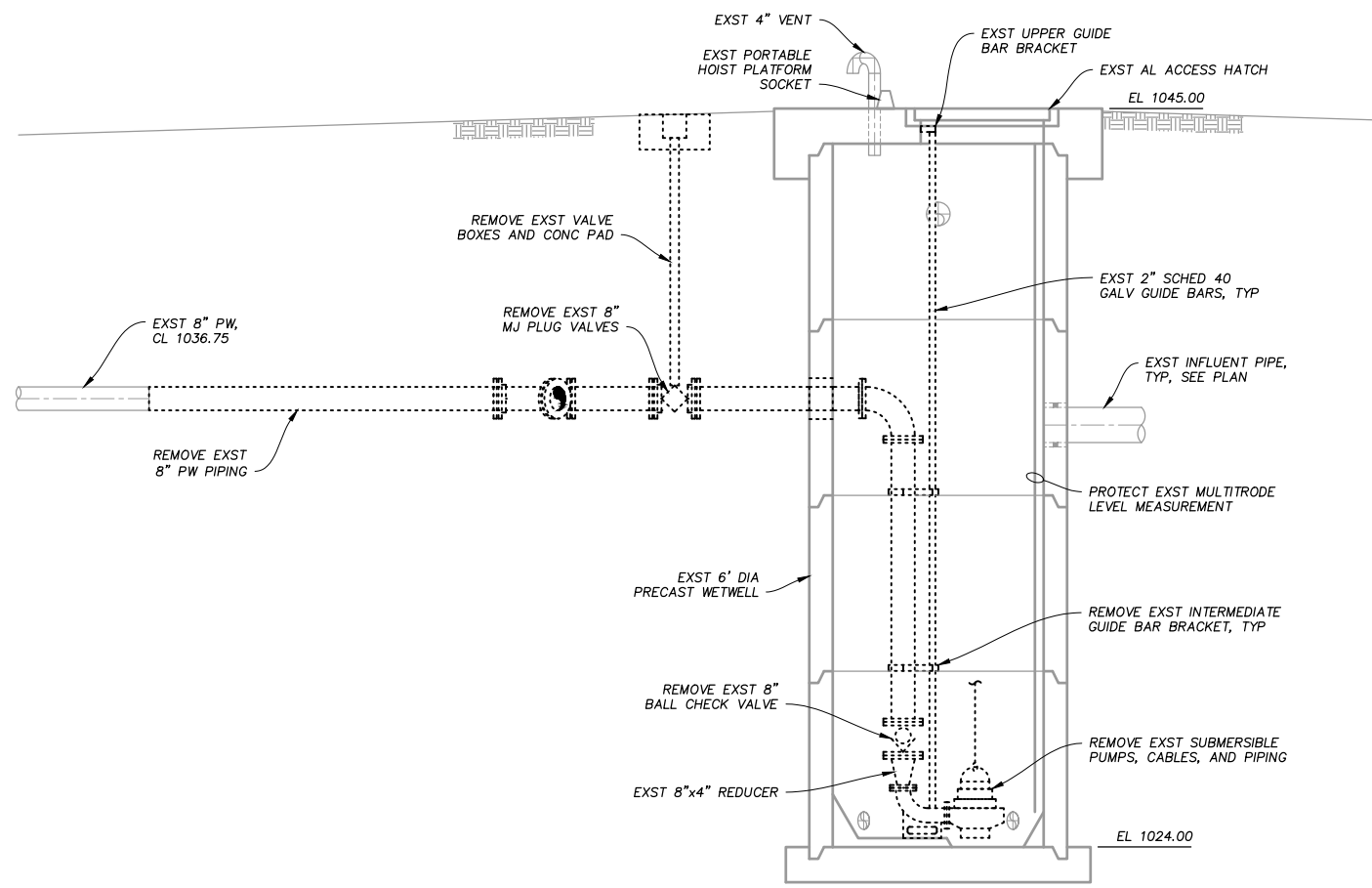




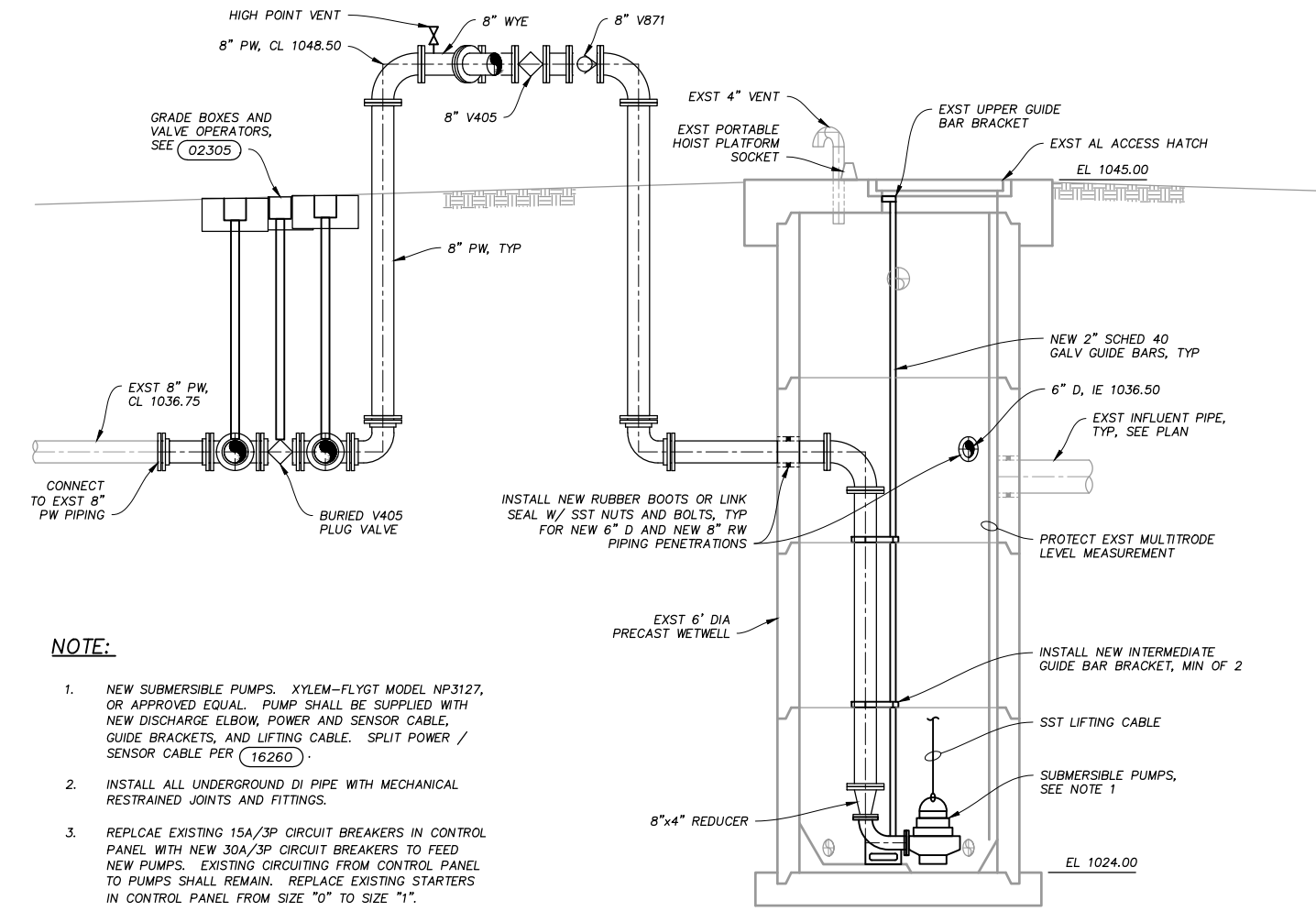
**REMOVAL PLAN**  
**DETAIL 1**  
 3/8" = 1'-0"  
 20-R-1  
 20-M-1



**MECHANICAL PLAN**  
**DETAIL 2**  
 3/8" = 1'-0"  
 20-R-1  
 20-M-1



**REMOVAL SECTION**  
**A**  
 3/8" = 1'-0"  
 60-RM-1



**MECHANICAL SECTION**  
**B**  
 3/8" = 1'-0"  
 60-RM-1

**NOTE:**

1. NEW SUBMERSIBLE PUMPS. XYLEM-FLYGT MODEL NP3127, OR APPROVED EQUAL. PUMP SHALL BE SUPPLIED WITH NEW DISCHARGE ELBOW, POWER AND SENSOR CABLE, GUIDE BRACKETS, AND LIFTING CABLE. SPLIT POWER / SENSOR CABLE PER (16260).
2. INSTALL ALL UNDERGROUND DI PIPE WITH MECHANICAL RESTRAINED JOINTS AND FITTINGS.
3. REPLACAE EXISTING 15A/3P CIRCUIT BREAKERS IN CONTROL PANEL WITH NEW 30A/3P CIRCUIT BREAKERS TO FEED NEW PUMPS. EXISTING CIRCUITING FROM CONTROL PANEL TO PUMPS SHALL REMAIN. REPLACE EXISTING STARTERS IN CONTROL PANEL FROM SIZE "0" TO SIZE "1".

P-1-1  
 P-1-2

PLS SCALE: 1:1 SCALE: 1:1  
 3: VESZTA (GRAPHICS) (DWG) (60-RM-1 PLANS AND SECTIONS).DWG  
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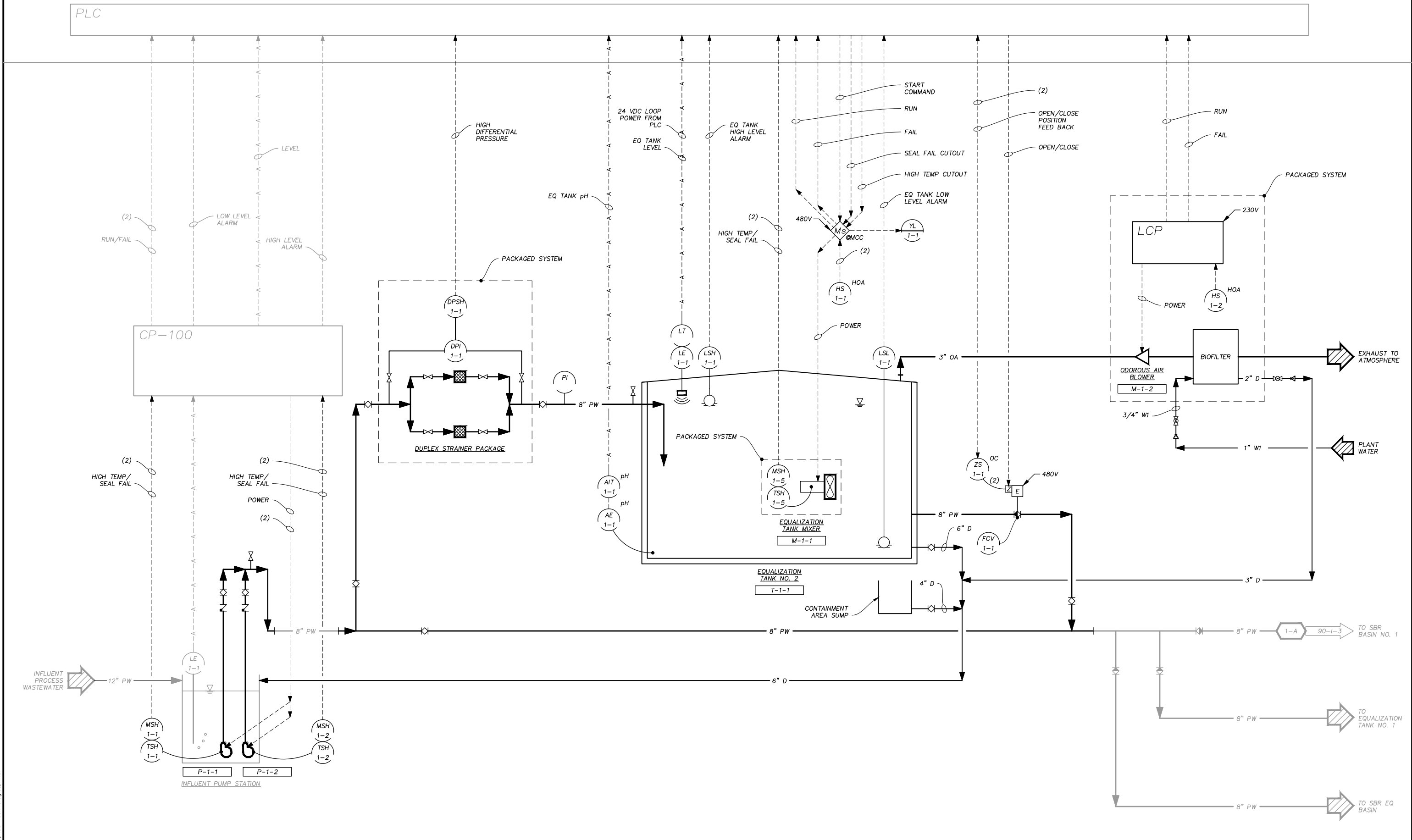


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INFLUENT PUMP STATION  
 REMOVAL/MECHANICAL/ELECTRICAL  
 PLANS AND SECTIONS

PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
60-RME-1	

MAIN CONTROL PANEL CP-500 PARTIAL



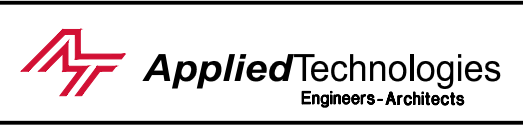
PLS SCALE: 1:1 TSCALE: 1:1  
 3: VESZAI (GRAFCO) (DIP) (MCS) 90-1-1 P&ID.dwg  
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 CHECKED BY  
 APPROVED BY

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 1:2  
 PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY

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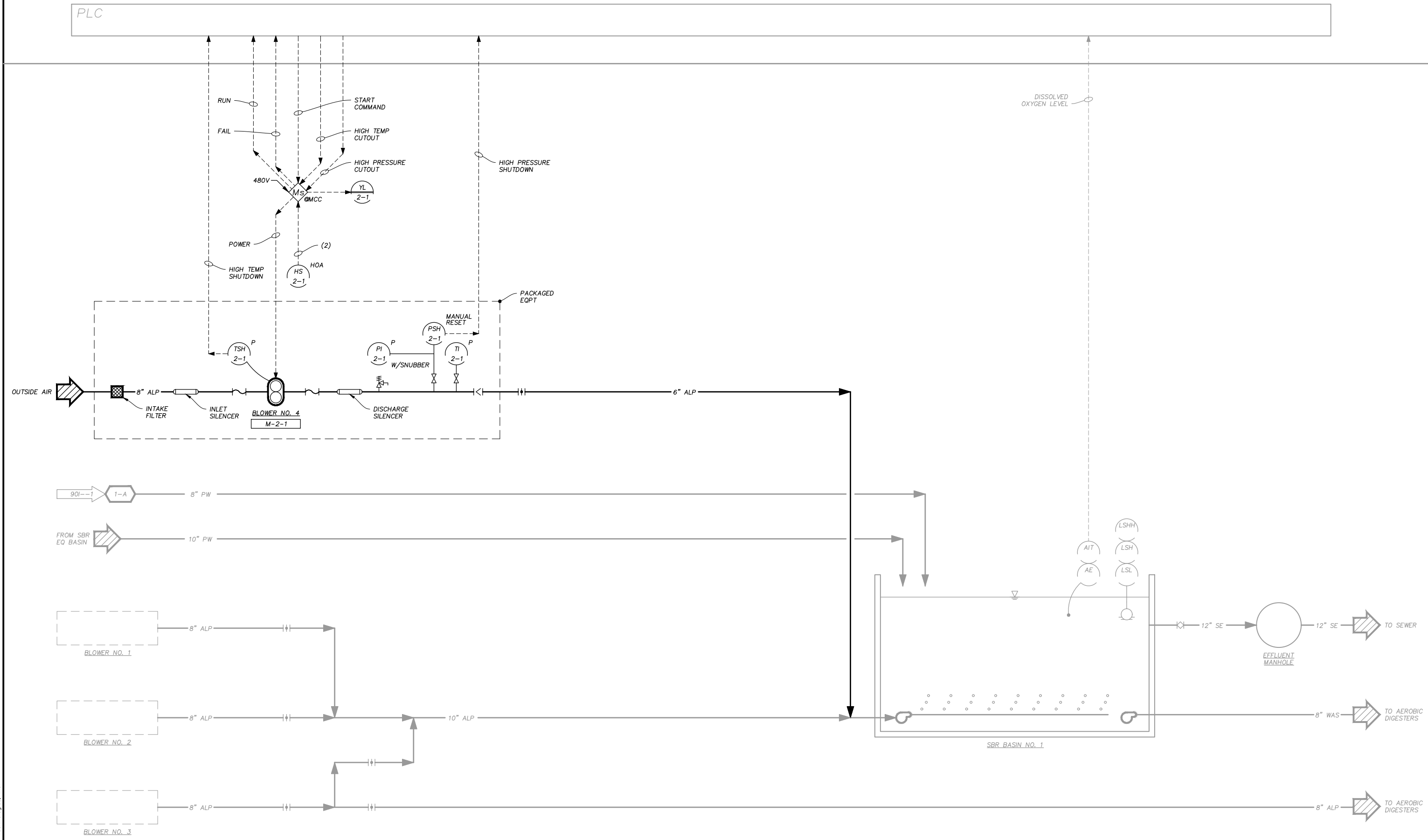


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INSTRUMENTATION & CONTROL  
 EQUALIZATION  
 P&ID

PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
90-1-1	

MAIN CONTROL PANEL CP-500 PARTIAL



PLOT SCALE: 1:2  
 3/15/2016 11:18 AM by DAN A. KIERZEK  
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VERIFY SCALES  
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 1:2  
 PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY

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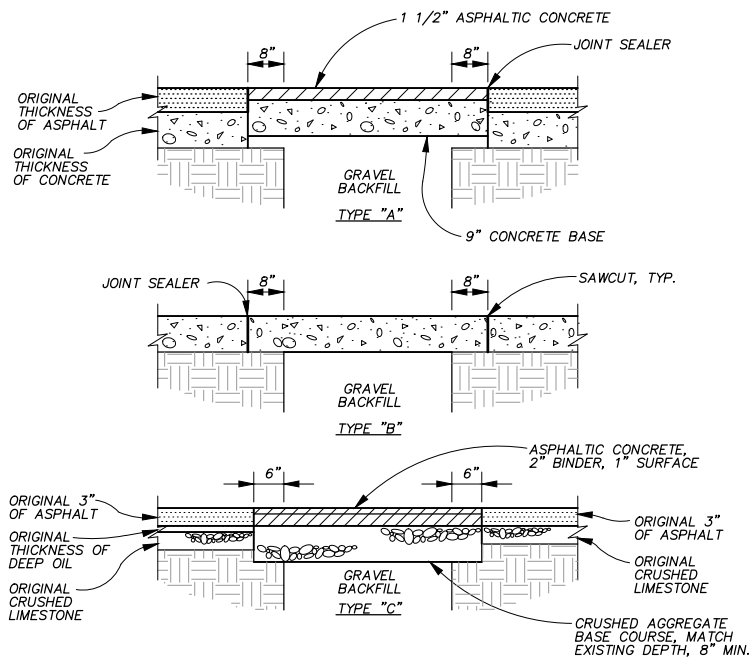
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INSTRUMENTATION & CONTROL  
 SBR  
 P&ID

PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
90-1-2	

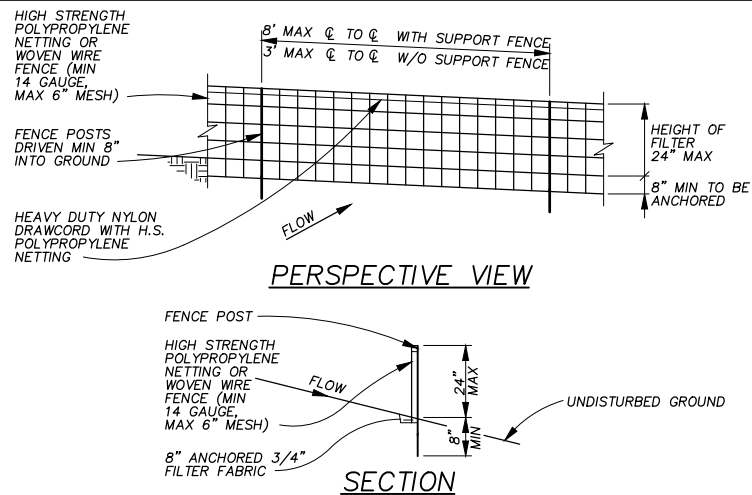
**NOTES:**

UTILITY CONTRACTOR TO BACKFILL TO FINAL GRADE WITH GRAVEL BACKFILL.  
 GENERAL CONTRACTOR TO REMOVE GRAVEL BACKFILL TO SUBGRADE AND  
 ADD CRUSHED AGGREGATE BASE COURSE AND PAVEMENT.



**PAVEMENT REPLACEMENT 02140**

NTS



**PERSPECTIVE VIEW**

**SECTION**

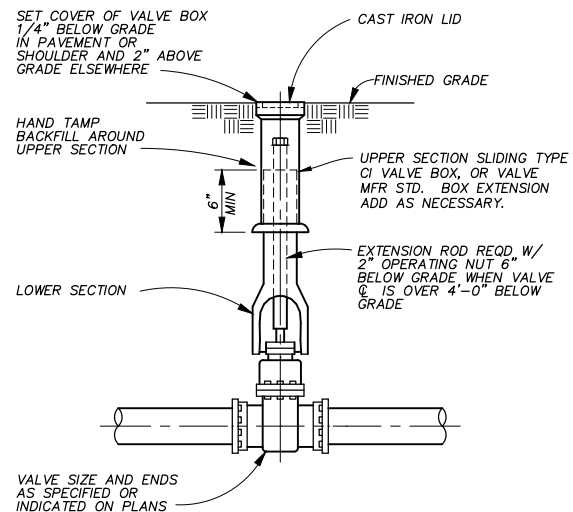
**CONSTRUCTION NOTES FOR FABRICATION**

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES TO THE UPSLOPE SIDE OF POSTS.
- FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 12" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
- THE FILTER FABRIC SHALL BE ANCHORED BY SPREADING AT LEAST 8" OF FABRIC IN A 4"x4" TRENCH OR A 4" DEEP V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
- MAINTENANCE: SILT FENCE SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL OR DAILY DURING PROLONGED RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT.

- POSTS:**  
 STEEL STUDDED 'T' OR 'U' TYPE  
 OR 2"x2" KILNDRIED HARDWOOD
- SUPPORT FENCE:**  
 WOVEN WIRE, 14 GAUGE  
 6" MAX MESH OPENING
- FILTER FABRIC:**  
 AS PER SPECIFICATIONS

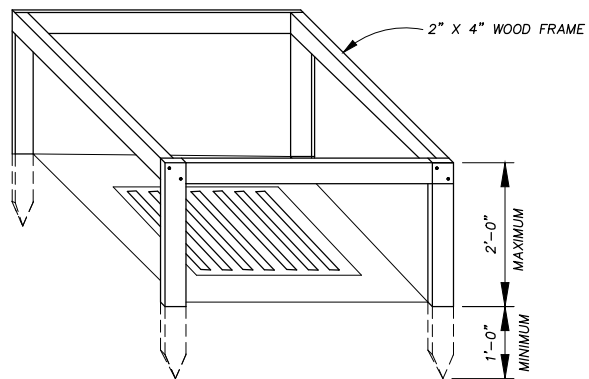
**SILT FENCE 02840**

NTS



**BURIED VALVE BOX SETTING 02305**

NTS



**WIRE MESH & FILTER FABRIC**

- BUILD 2"x4" WOOD FRAME AROUND INLET. DRIVE STAKES INTO GROUND MINIMUM 12".
- DIG AN 8" DEEP TRENCH OUTSIDE OF WOOD FRAME.
- ATTACH WIRE MESH TO WOOD FRAME. EXTEND MESH 2" INTO TRENCH.
- ATTACH FILTER FABRIC TO WOODEN FRAME (OVER WIRE MESH) EXTEND FABRIC MINIMUM 8" INTO TRENCH. OVERLAP JOINT TO NEXT STAKE.
- BACKFILL AND COMPACT SOIL IN TRENCH.

**DROP INLET FABRIC BARRIER**

NTS

**02841**

PLS SCALE: 1:1 SCALE: 1:1 L:SCALE: 1:1  
 3:1 (SCALE) (GRAPHICS) (DIMENSIONS) 99-C-1 DETAILS.dwg  
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 ON ORIGINAL DRAWING

1:2  
 PLOT SCALE, ADJUST  
 SCALE(S) ACCORDINGLY

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STANDARD DETAILS  
 CIVIL  
 DETAILS

PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
99-C-1	

- ALL REINFORCEMENT DETAILS SHALL CONFORM TO THE METHODS AND STANDARDS OF ACI 318.
- UNLESS OTHERWISE SHOWN, CONCRETE WALLS AND SLABS SHALL BE REINFORCED AS FOLLOWS: #4@12" EACH WAY CENTER OF 6" SECTIONS; #5@12" EACH WAY CENTER OF 8" SECTIONS; #4@12" EACH WAY EACH FACE OF 10" SECTIONS; #5@12" EACH WAY EACH FACE OF 12" SECTIONS; SINGLE MAT REINFORCEMENT SHALL BE AT CENTER OF SECTION, UNLESS SHOWN OTHERWISE.
- CLEARANCE FOR REINFORCEMENT FOR CAST-IN-PLACE CONCRETE UNLESS SHOWN OTHERWISE, SHALL BE WHEN CAST AGAINST GROUND 3" CLEARANCE; FOR SURFACE EXPOSED TO WATER OR WEATHER 1 1/2" CLEARANCE FOR #5 BARS OR SMALLER AND 2" CLEARANCE FOR LARGER BARS; INTERIOR SLABS 3/4" CLEARANCE FOR #11 BARS OR SMALLER; INTERIOR BEAMS AND COLUMNS 1 1/2" CLEARANCE.
- PLACE HORIZONTAL BARS WITHIN 3" OF TOP AND BOTTOM OF WALLS, UNLESS SHOWN OTHERWISE.
- REFER TO CORNER AND INTERSECTION REINFORCEMENT DETAILS. IN GENERAL, THE REINFORCEMENT SIZES AND SPACINGS SHALL BE CALLED OUT ON THE PLANS AND REFERENCED TO THESE DETAILS AND THE REINFORCEMENT SHALL LAP WITH THE CORNER AND INTERSECTING REINFORCEMENT.
- ALL INSIDE DIAMETER OF BENDS, UNLESS OTHERWISE SHOWN, SHALL BE AS DEFINED IN ACI 7.2.
- UNLESS INDICATED OTHERWISE, CONTRACTOR MAY SPLICE CONTINUOUS SLAB OR LONGITUDE BEAM BARS AT LOCATIONS OF HIS CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MIDSPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS.
- UNLESS OTHERWISE NOTED, ALL WALL REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS AND THROUGH COLUMNS OR PILASTERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALLS. VERTICAL WALL BARS SHALL BE LAPPED WITH DOWELS FROM BASE SLABS AND EXTENDED INTO THE TOP FACE OF ROOF SLABS AND LAPPED WITH TOP SLAB REINFORCEMENT.
- ROUGH SURFACE—WHEN CONCRETE IS PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE INTERFACE SURFACE OF THE HARDENED CONCRETE SHALL BE CLEAN AND FREE OF LAITANCE AND SHALL BE ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH. THIS CAN BE ACCOMPLISHED BY USING A FORM LINER OR RAKING THE PLASTIC CONCRETE OF THE FIRST POUR OR BY BUSHHAMMERING OR CHISELING HARDENED CONCRETE SURFACES OR ANY OTHER METHOD APPROVED BY THE ENGINEER.
- ALL REINFORCEMENT DEVELOPMENT LENGTHS, LAP SPLICE LENGTHS, AND HOOK DEVELOPMENT LENGTHS SHALL SATISFY THE FOLLOWING MINIMUM LENGTH REQUIREMENTS:

fc'	3000	3000	4000	4000
Bar Size	Top	Other	Top	Other
3	22	17	19	15
4	29	22	25	19
5	36	28	31	24
6	43	33	37	29
7	63	48	54	42
8	72	55	62	48
9	81	62	70	54
10	91	70	79	61
11	101	78	87	67

fc'	3000	3000	4000	4000
Bar Size	Top	Other	Top	Other
3	28	22	25	19
4	38	29	33	25
5	47	36	41	31
6	56	43	49	37
7	81	63	71	54
8	93	72	81	62
9	105	81	91	70
10	118	91	102	79
11	131	101	114	87

fc'	3000	4000
Bar Size		
3	9	8
4	11	10
5	14	12
6	17	15
7	20	17
8	22	19
9	25	22
10	28	25
11	31	27

fc'	< 3000	>= 3000
Bar Size		
3	15	12
4	20	15
5	25	19
6	30	23
7	35	27
8	40	30
9	46	34
10	51	39
11	57	43

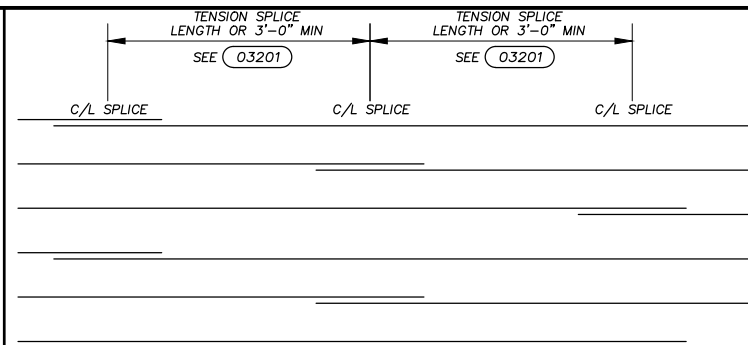
fc'	3000	4000
Bar Size		
3	6	6
4	8	7
5	10	9
6	12	10
7	14	12
8	16	14
9	18	15
10	20	17
11	22	19

FOR LIGHTWEIGHT AGGREGATE CONCRETE, INCREASE TENSION DEVELOPMENT LENGTH, TENSION LAP SPLICE LENGTH, AND TENSION HOOK DEVELOPMENT LENGTH BY 30%.

FOR EPOXY COATED REINFORCEMENT, INCREASE TENSION DEVELOPMENT LENGTH AND TENSION LAP SPLICE LENGTH BY 50%, AND INCREASE TENSION HOOK DEVELOPMENT LENGTH BY 20%.

### GENERAL REINFORCEMENT NOTES

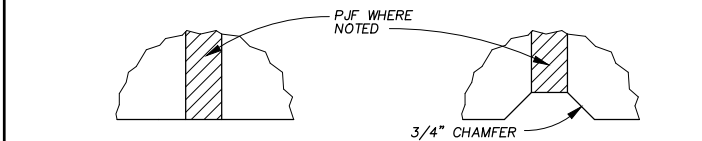
NTS **03201**



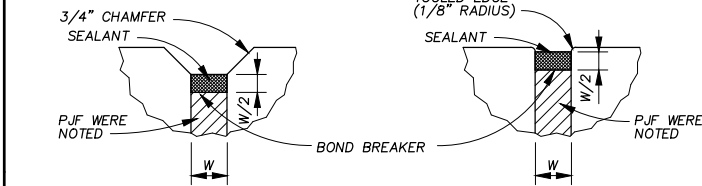
### CIRCUMFERENTIAL REINFORCING SPLICE DETAILS

NOTE: TYPICAL FOR CIRCULAR REINFORCING IN CIRCULAR TANK WALLS AND SLABS

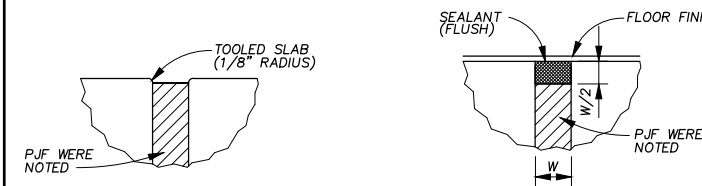
NTS **03203**



### SLAB OR WALL AGAINST EARTH INTERIOR WALL OR BOTTOM OF SLAB



### TANK (WET SIDE) OR EXTERIOR SIDE OF EXPOSED WALL TANK OR FLOOR SLAB WITH SEALANT



### FLOOR SLAB WITHOUT SEALANT FLOOR SLAB WITH FLOOR FINISH

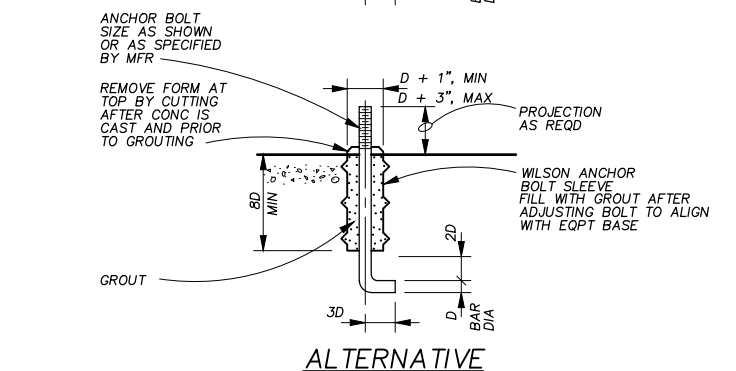
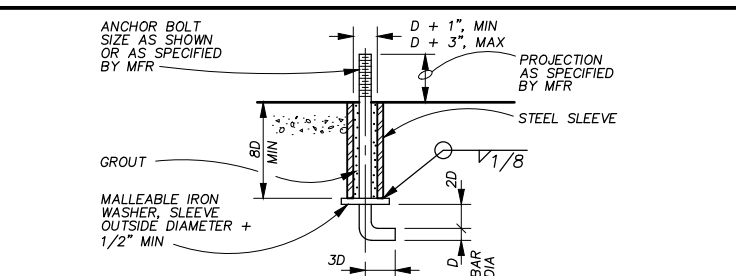
### JOINT TREATMENT DETAILS

NTS **03500**

- PAD SIZE SHALL BE MINIMUM SHOWN ON PLANS OR AS SPECIFIED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
- THE SIZE, NUMBER, TYPE, LOCATION AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE AS SPECIFIED BY THE EQUIPMENT MANUFACTURER.
- BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING POURED.
- ANCHOR BOLT SLEEVES SHALL BE AS DETAILED IN **03602**.
- EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE.
- WEDGES OR SHIMS SHALL BE USED TO SUPPORT THE BASE WHILE THE NON-SHRINK GROUT IS PLACED. TEMPORARY LEVELING NUTS SHALL BE BACKED OFF. IF LEFT IN, THE WEDGES OR SHIMS SHALL NOT BE EXPOSED TO VIEW.

### EQUIPMENT PAD NOTES

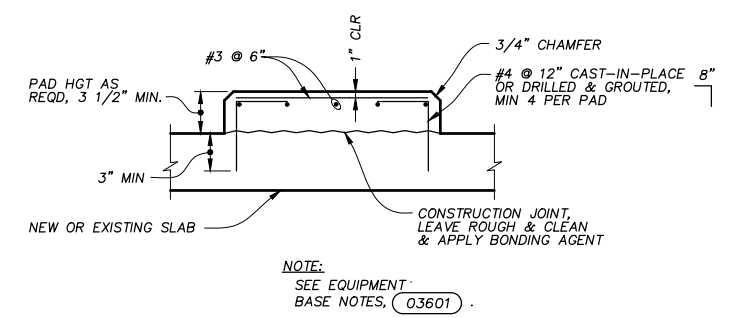
NTS **03601**



- NOTES:
- THE SIZE, NUMBER, TYPE, LOCATION AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE AS SPECIFIED BY THE EQUIPMENT MANUFACTURER.
  - BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING POURED.
  - ANCHOR BOLT SLEEVES SHALL BE USED TO PROVIDE THE ANCHOR BOLT A MINIMUM ADJUSTMENT OF 1/2" IN ALL DIRECTIONS.
  - THE MINIMUM SLEEVE LENGTH SHALL BE 8 TIMES THE BOLT DIAMETER. SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND A MAXIMUM INTERNAL DIAMETER 3" GREATER THAN ANCHOR BOLT DIAMETER.
  - SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT AFTER ADJUSTMENTS ARE COMPLETED.

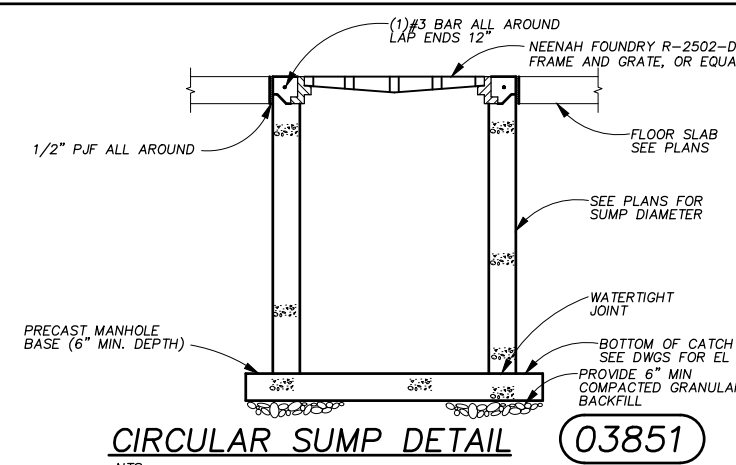
### SLEEVED ANCHOR BOLT

NTS **03602**



### EQUIPMENT PAD

NTS **03612**



### CIRCULAR SUMP DETAIL

NTS **03851**

PLOT SCALE: 1/8" = 1'-0" (GRAVITY) (DRAWING) 09-S-1 DETAILS.dwg  
 L1:SCALE: 1/8" = 1'-0" (GRAVITY) (DRAWING) 09-S-1 DETAILS.dwg  
 3/16/2016 11:18 AM by DAN A. KIERZEK  
 Plotted On: 2/25/2016 11:18 AM by DAN A. KIERZEK  
 Last Modified: 24 February 2016  
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CHECKED BY	
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VERIFY SCALES LENGTH OF BAR IS 1" ON ORIGINAL DRAWING	NO.	DATE
1:2 PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY		

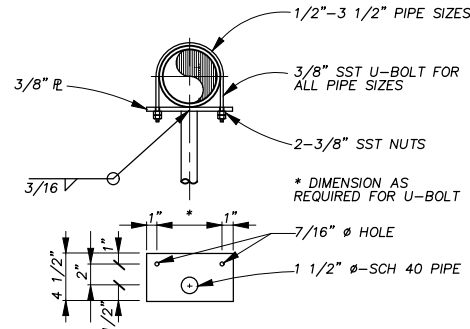
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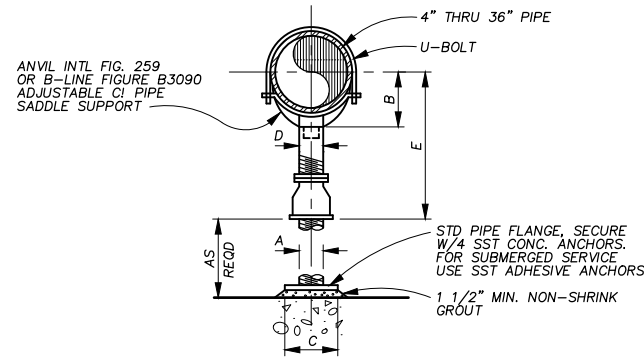
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WASTEWATER PRETREATMENT UPGRADES  
DACULA, GEORGIA

PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
99-S-1	

PIPE SIZE	A	B	C	D	E	
					MIN	MAX
2-1/2"	2-1/2"	3-1/2"	9"	1-1/2"	8"	13"
3"	2-1/2"	3-3/4"	9"	1-1/2"	8-1/4"	13-1/4"
3-1/2"	2-1/2"	4"	9"	1-1/2"	8-1/2"	13-1/2"
4"	3"	4-1/4"	9"	2-1/2"	9-1/4"	14"
5"	3"	4-7/8"	9"	2-1/2"	10"	14-3/4"
6"	3"	5-1/2"	9"	2-1/2"	10-1/2"	15-1/4"
8"	3"	6-7/8"	9"	2-1/2"	11-3/4"	16-1/2"
10"	3"	8-1/2"	9"	2-1/2"	13-1/2"	18-1/4"
12"	4"	9-15/16"	9"	2-1/2"	15"	19-3/4"
14"	4"	10-15/16"	11"	3"	16-1/4"	20-3/4"
16"	4"	12-3/8"	11"	3"	17-3/4"	22-1/4"
18"	6"	13-7/8"	13-1/2"	3-1/2"	19-1/2"	24"
20"	6"	15-3/8"	13-1/2"	3-1/2"	21"	25-1/2"
24"	6"	17-15/16"	13-1/2"	4"	23-3/4"	28-1/4"
30"	6"	21-5/16"	13-1/2"	4"	27"	31-1/2"
32"	6"	22-1/2"	13-1/2"	4"	28-1/4"	32-3/4"
36"	6"	24-1/2"	13-1/2"	4"	30-1/4"	34-3/4"



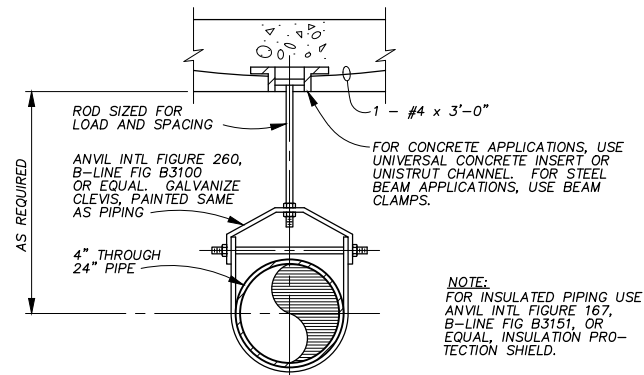
PIPE SIZES 1/2" - 3 1/2"



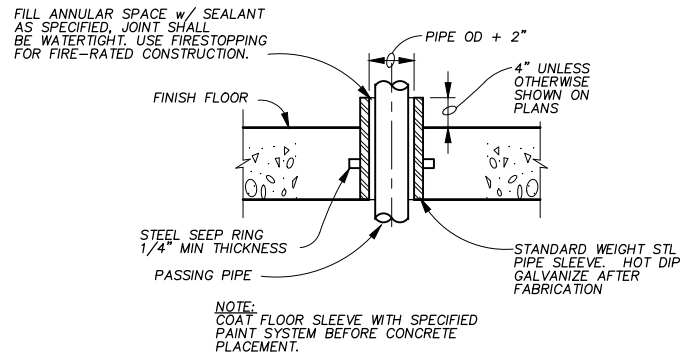
PIPE SIZES 4" - 36"

- NOTES
1. PROVIDE HALF ROUND RIGID INSULATION AND INSULATION PROTECTION SHIELD, SIMILAR TO ANVL INTL FIG. 167 OR ELCEN FIG. 219, WHERE PIPING IS INSULATED.
  2. PROVIDE NEOPRENE WAFFLE ISOLATION PAD, SIMILAR TO MASON TYPE "W" OR KORFUND KORPAD 40, UNDER SUPPORT FOOT WHEN PIPING IS ISOLATED OR SUPPORT IS ADJACENT TO MECHANICAL EQUIPMENT.
  3. PIPING SUPPORTS TO RECEIVE SAME PAINT SYSTEM AS PIPING

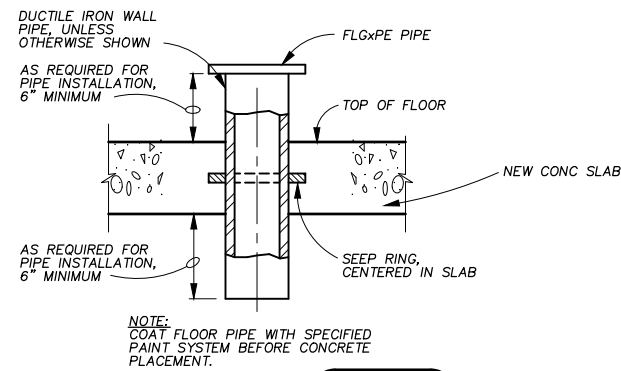
PIPE SUPPORT 15100



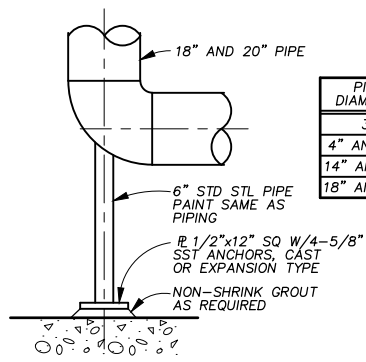
PIPE HANGER 15150



FLOOR SLEEVE 15200



FLOOR PIPE 15205



PIPE DIAMETER	SUPPORT DIAMETER	PLATE THICKNESS	ANCHOR BOLT DIA
3"	2 1/2"	3/8"	3/8"
4" AND 12"	3"	3/8"	1/2"
14" AND 16"	4"	3/8"	1/2"
18" AND 20"	6"	1/2"	5/8"

PIPE SUPPORT 15101

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 APPROVED BY .

VERIFY SCALES  
 LENGTH OF BAR IS 1"  
 ON ORIGINAL DRAWING  
 1:2  
 PLOT SCALE, ADJUST  
 SCALE(S) ACCORDINGLY

NO. DATE REVISION BY APVD

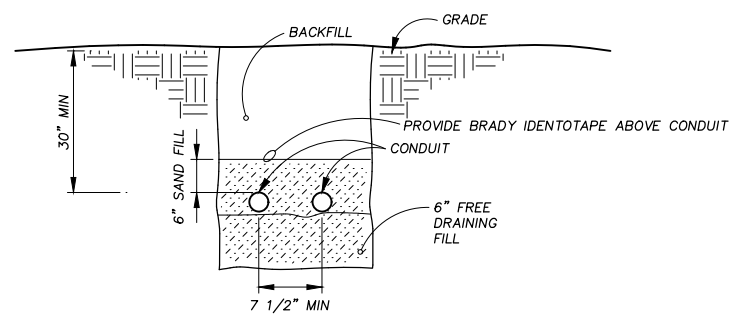
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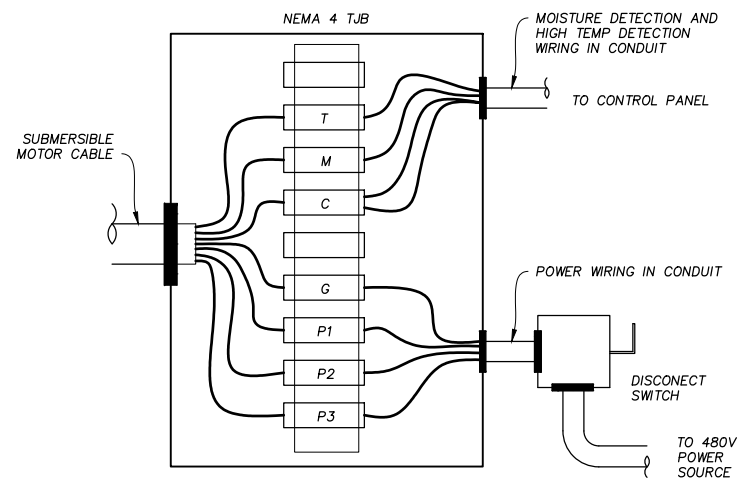
PUBLIX SUPERMARKETS, INC.  
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 UPGRADES  
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STANDARD DETAILS  
 MECHANICAL  
 DETAILS

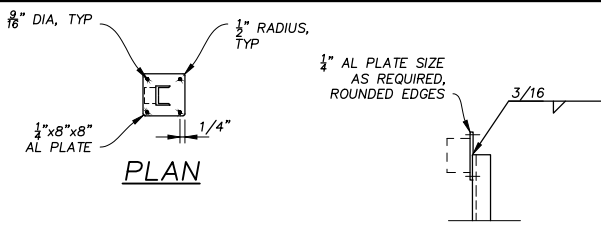
PROJECT NO. 5634  
 DATE 2-25-16  
 DRAWING NO. 99-M-1



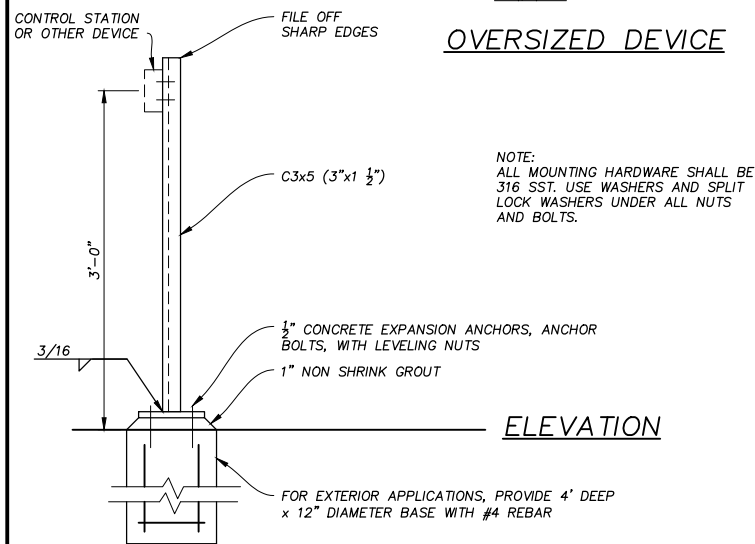
**DIRECT BURIED  
CONDUIT DETAIL** (16222)  
NTS



**SUBMERSIBLE MOTOR CABLE  
SPLITTING DIAGRAM** (16260)  
NTS



**OVERSIZED DEVICE**



**PEDESTAL  
MOUNTING DEVICES** (16239)  
NTS

PLS SCALE: 1:1 SCALE: 1:1  
 3:16234 (GRAVINGS) (DWG) (S) (99-E-1) DETAILS.dwg  
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 Last Modified: 25 February 2016

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 LENGTH OF BAR IS 1" ON ORIGINAL DRAWING  
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STANDARD DETAILS  
 ELECTRICAL  
 DETAILS

PROJECT NO.	DATE
5634	2-25-16
DRAWING NO.	
99-E-1	