

**FOR
CITY OF SALEM
SALEM, INDIANA**

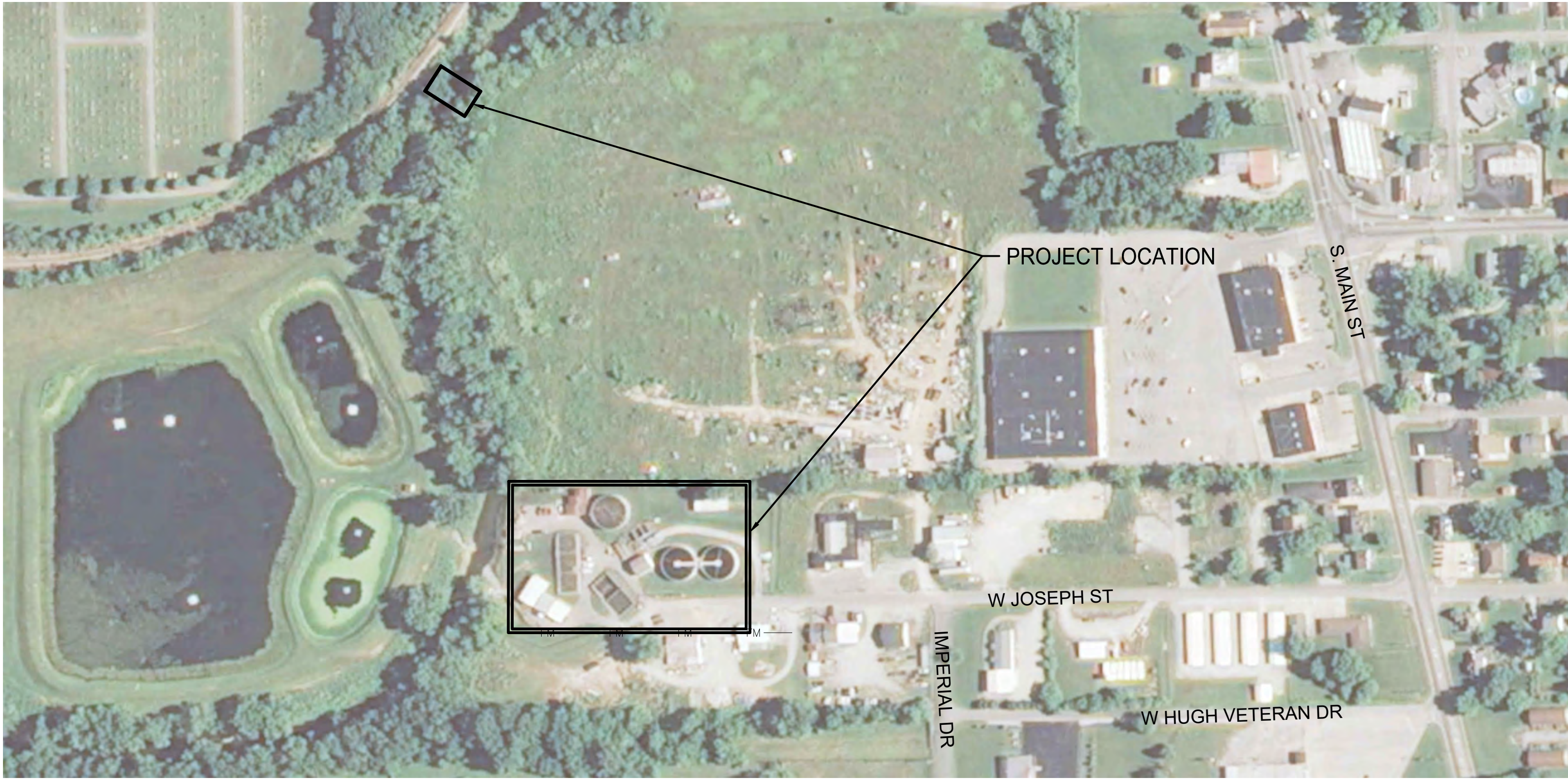


MAY 2018

The image is a title page for a project. At the top, the text "IMPROVEMENTS PROJECT" is written in a large, bold, black, sans-serif font. Below it, the word "FOR" is centered in a slightly smaller, bold, black, sans-serif font. Underneath "FOR", the text "CITY OF SALEM" is centered in a large, bold, black, sans-serif font. Below that, "SALEM, INDIANA" is centered in a large, bold, black, sans-serif font. On the left side, there is a small logo consisting of a compass rose with a stylized 'N' and a small building icon. Below the logo, the text "OBJECT LOCATION" is written in a small, black, sans-serif font, followed by "209 W JOSEPH STREET" and "SALEM, INDIANA 47167" on two separate lines. Further down on the left, the text "SOUTHWAY VILLA" and "STATION" are written in a small, black, sans-serif font on two separate lines. A large, diagonal watermark in a bold, black, sans-serif font spans across the entire page, reading "For Viewing Purposes Only - Visit wesslerengineering.com to Purchase". At the bottom center, the text "DRAWINGS PREPARED FOR:" is written in a small, black, sans-serif font, followed by "BOARD OF PUBLIC WORKS" on the next line.



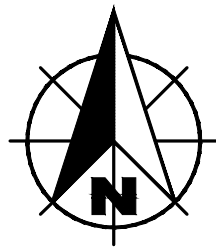
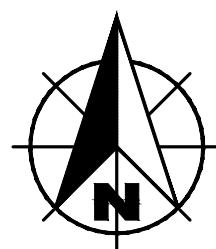
Drawing: J:\Salem\Projects\201417 Salem WWTP Improve\CAD 04-001\DWG\Sheets\201417-GS.dwg | Layout: LP | Plotted: 05/01/18 @ 01:08:32 | LastSavedBy: MikeN



PROJECT LOCATION MAP
SCALE: 1" = 2000'



SOUTHWAY VILLA LIFT STATION LOCATION MAP
SCALE: 1" = 2000'



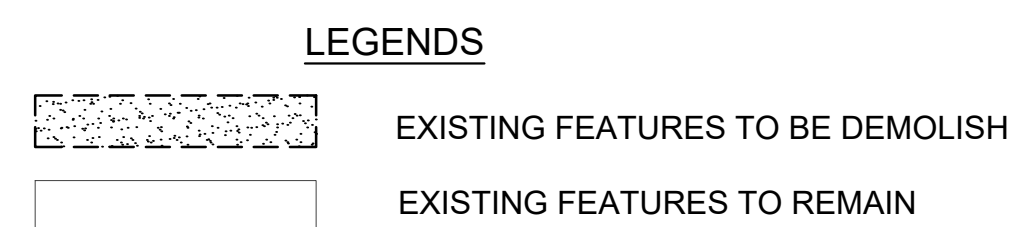
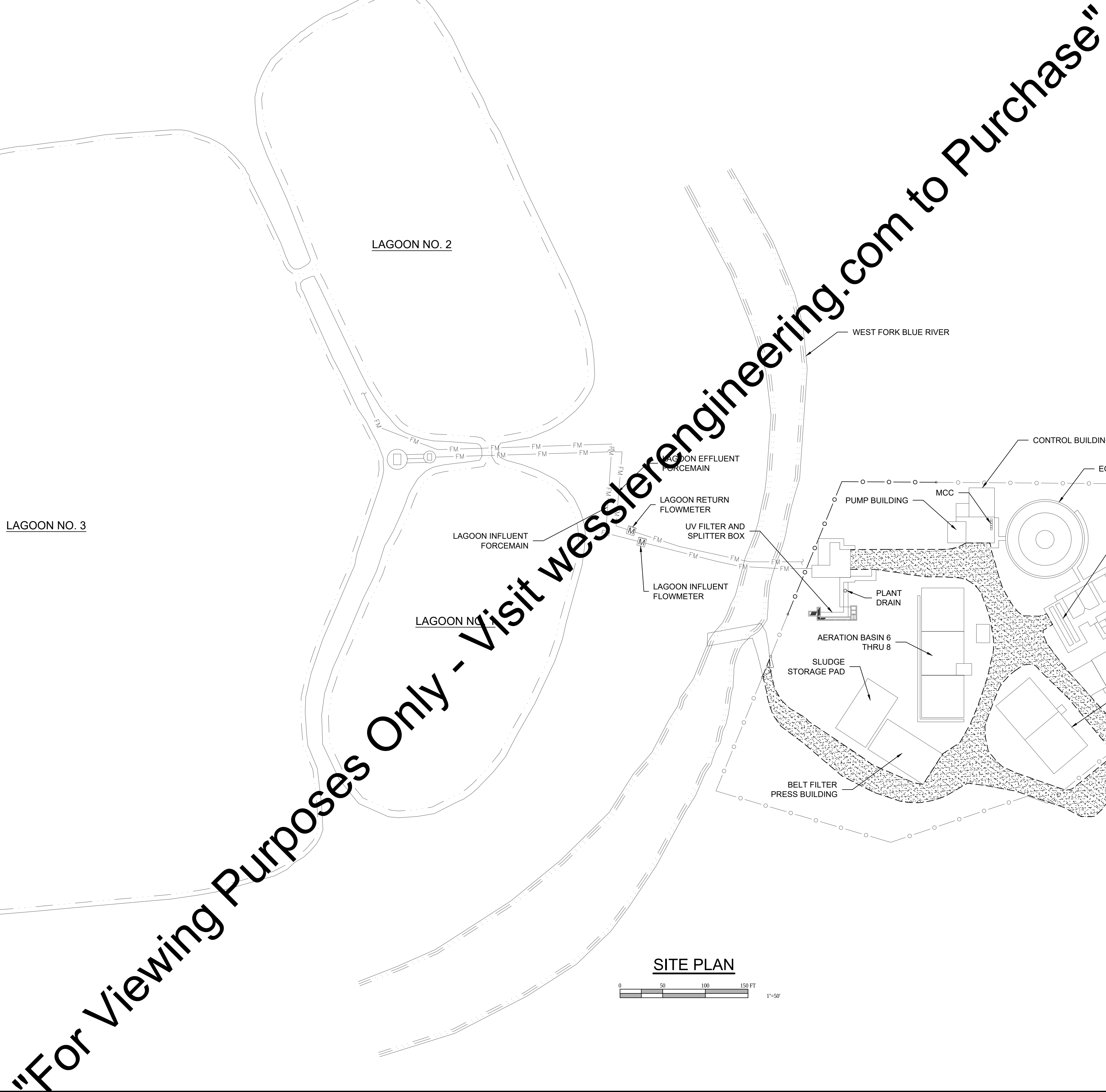
GENERAL PROJECT NOTES:

1. THE CONTRACTOR SHALL NOTE THAT THE WORK SHOWN ON THESE DRAWINGS IS OCCURRING ON A PLANT SITE IN WHICH BURIED ELECTRICAL CONDUITS AND SMALL PIPING MAY EXIST THROUGHOUT. ALL OF WHICH IN THE VICINITY OF THIS PROJECT MAY NOT BE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL EXPECT TO ENCOUNTER BURIED ELECTRICAL AND COMMUNICATION WIRING, WITH OR WITHOUT CONDUITS, SMALL PIPING, AND FIELD TILE WHILE DIGGING ON THIS SITE; AND SHALL INCLUDE COSTS IN THE BID TO REPLACE, REPAIR OR RELOCATE SUCH WIRING, CONDUITS, TILE, AND PIPING WHICH ARE DAMAGED OR IN CONFLICT WITH NEW WORK.
2. ALL LOCATIONS, SIZES AND INVERTS OF EXISTING UTILITIES AND YARD PIPING ARE SHOWN BASED ON THE BEST INFORMATION AVAILABLE. HOWEVER, WESSLER ENGINEERING DOES NOT GUARANTEE OR ASSURE THAT SUCH INFORMATION IS TRUE OR EVEN APPROXIMATE. THE CONTRACTOR SHALL DETERMINE WHICH UTILITIES MAY CONFLICT WITH HIS WORK AND VERIFY, AT A MINIMUM BUT NOT LIMITED TO, THE LOCATIONS, MATERIALS, SIZES, AND INVERTS. THE CONTRACTOR SHALL ADJUST HIS WORK ACCORDINGLY, AND NOTIFY WESSLER ENGINEERING OF ANY SUCH CONFLICTS AND RESOLUTION. THE CONTRACTOR SHALL REFER TO APPLICABLE SECTIONS OF THE SPECIFICATIONS RELATIVE TO THE ABOVE.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION, MATERIAL AND SIZE OF EACH EXISTING UTILITY SERVICE PROVIDED TO THE SITE WITH THE RESPECTIVE UTILITY COMPANIES, AND ADJUST HIS WORK ACCORDINGLY. THE CONTRACTOR SHALL PROVIDE WESSLER ENGINEERING RECORD DRAWING INFORMATION OF EACH EXISTING UTILITY SERVICE LOCATED.
4. COMPLETELY REMOVE UNDERGROUND PIPING THAT HAS PREVIOUSLY BEEN TAKEN OUT OF SERVICE OR IS BEING TAKEN OUT OF SERVICE UNDER THIS CONTRACT WHICH IS IN CONFLICT WITH NEW WORK. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ABANDONED UNDERGROUND PIPING NOT IN CONFLICT WITH NEW WORK MAY BE LEFT IN PLACE. DO NOT LEAVE PIPING ABANDONED UNDER THIS CONTRACT LIVE. SEE SPECIFICATION SECTION 02050 FOR DEMOLITION PROCEDURES. SEE SECTION 01550 FOR PLANT OPERATIONS DURING CONSTRUCTION FOR COORDINATION OF DEMOLITION WORK AND NEW CONSTRUCTION.
5. ALL EXISTING PIPING MAY NOT BE SHOWN. THE CONTRACTOR SHALL REFERENCE EXISTING RECORD DRAWINGS ON FILE WITH THE OWNER AND WESSLER ENGINEERING FOR ADDITIONAL INFORMATION OF EXISTING PIPING AND CONDUIT THROUGHOUT THE PLANT SITE.
6. NEW PIPING CARRYING LIQUIDS SHALL HAVE MINIMUM COVER AS DEFINED IN THE MISCELLANEOUS SITE DETAILS, UNLESS SPECIFIC ELEVATIONS ON THE DRAWINGS INDICATE OTHERWISE.
7. ALL EQUIPMENT TO BE REMOVED THAT HAS ELECTRICAL COMPONENTS, CONDUIT AND WIRING, AND/OR SMALL PIPING CONNECTED TO IT SHALL HAVE THE ELECTRICAL COMPONENTS AND SMALL PIPING REMOVED BACK TO THE SOURCE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING AND/OR PROTECTING ALL UTILITY POLES AND EXISTING STRUCTURES ADJACENT TO NEW EXCAVATIONS. UTILITY POLE BRACING SHALL BE AS DIRECTED BY THE GOVERNING UTILITY COMPANIES.
9. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING, RESTORING, OR REPLACING ALL PAVEMENT IN STREETS AND DRIVES OUTSIDE AND WITHIN THE CONSTRUCTION LIMITS WHICH IS DAMAGED BY CONSTRUCTION ACTIVITIES AND TRAFFIC, AND SHALL INCLUDE ALL SUCH COSTS IN HIS BID.
10. THE CONTRACTOR SHALL INSPECT THE SITE PRIOR TO BIDDING THE PROJECT TO SEE THE EXTENT OF THE DEMOLITION WORK INVOLVED AND TO INCLUDE THE NECESSARY WORK IN HIS BID.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING EACH PERMIT ISSUING AGENCY WITHIN THE TIME PERIOD SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING CONSTRUCTION.
12. THE CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 02101 FOR EROSION AND DUST CONTROL DURING CONSTRUCTION.
13. THIS PROJECT REQUIRES THE REMOVAL OF EQUIPMENT, SOME OF WHICH HAVE ASSOCIATED MERCURY FILLED COMPONENTS INCLUDING, BUT NOT LIMITED TO, GAUGES AND CONTROLS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND DISPOSE OF ALL MERCURY FILLED COMPONENTS DESIGNATED FOR REMOVAL WITHIN FEDERAL, STATE AND LOCAL REGULATIONS.
14. THE CONTRACTOR SHALL PROTECT ALL BUILDING SUMP PUMPS FROM CONSTRUCTION DEBRIS THROUGHOUT THE COURSE OF CONSTRUCTION.
15. THE CONTRACTOR SHALL COMPLETELY CLEAN ALL FLOOR DRAINS AND DRAIN PIPING IN EACH EXISTING BUILDING THAT HAS HAD CONSTRUCTION ACTIVITY TO REMOVE ALL CONSTRUCTION DEBRIS. CONSTRUCTION DEBRIS IN DRAIN PIPING SHALL BE FLUSHED TO THE NEAREST SITE MANHOLE, THEN COMPLETELY REMOVED.
16. NOTED ELEVATIONS ARE BASED UPON WWTP RECORD DRAWINGS.

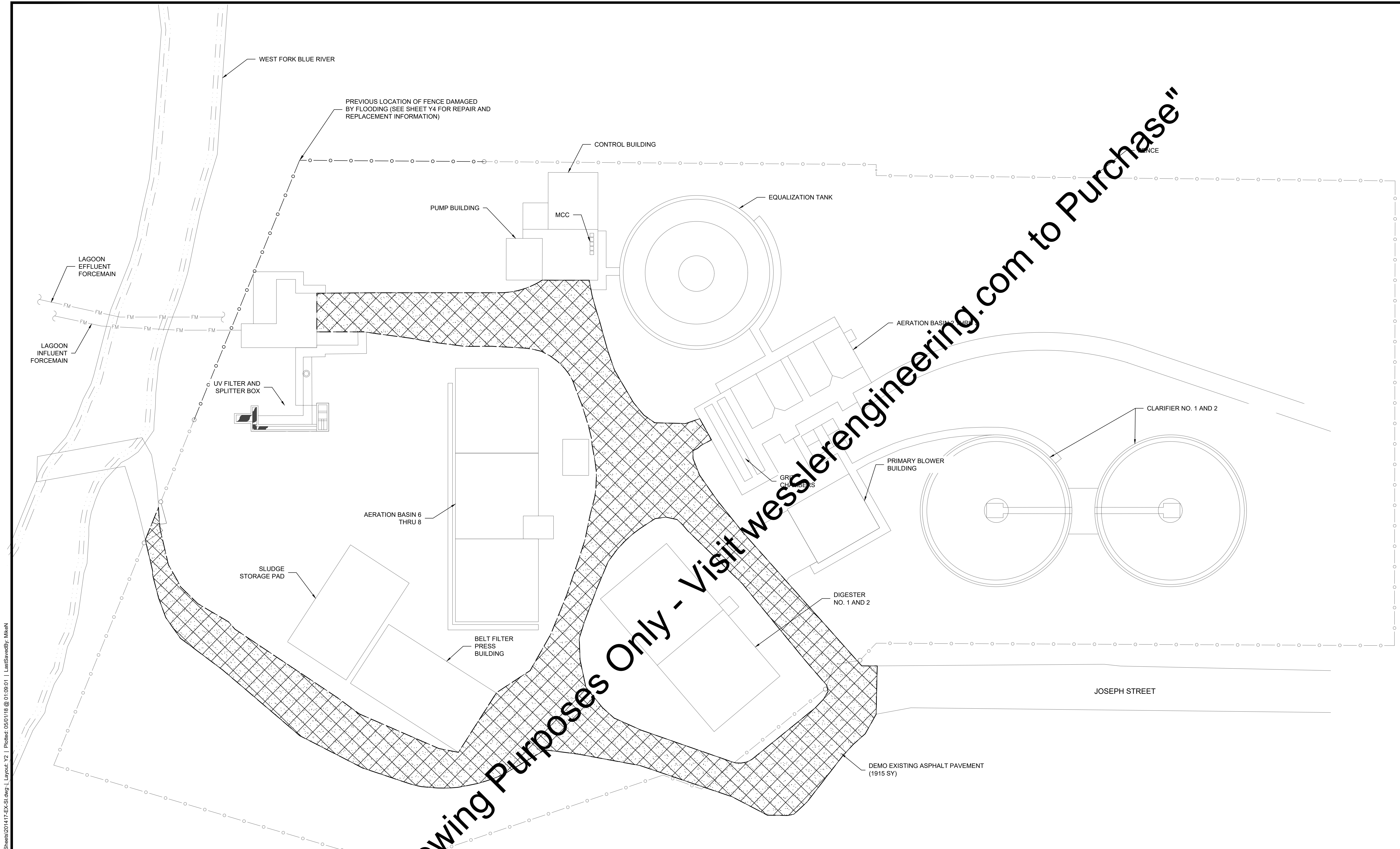
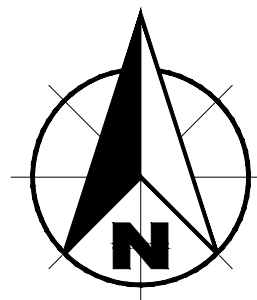
DRAWING INDEX		
PAGE NO.	SHEET NO.	DESCRIPTION
GENERAL		
01		TITLE SHEET
02	G1	DRAWING INDEX, GENERAL NOTES, AND PROJECT LOCATION PLAN
SITE		
03	Y1	OVERALL EXISTING SITE PLAN
04	Y2	ENLARGED EXISTING SITE PLAN
05	Y3	OVERALL NEW SITE PLAN
06	Y4	ENLARGED NEW SITE PLAN
07	Y5	ENLARGED LAGOONS SITE PLAN
CIVIL		
08		SOUTHWAY VILLA LIFT STATION - DEMOLITION PLAN AND SECTION
09	C2	SOUTHWAY VILLA LIFT STATION - MODIFICATIONS PLAN AND SECTION
10	C3	RAW SEWAGE PUMP STATION - DEMOLITION PLAN AND SECTIONS
11	C4	RAW SEWAGE PUMP STATION - MODIFICATIONS PLAN AND SECTIONS
12	C5	UV STRUCTURE - DEMOLITION PLAN AND SECTIONS
13	C6	UV STRUCTURE - MODIFICATION PLAN AND SECTIONS
14	C7	UV STRUCTURE - MODIFICATION SECTIONS
15	C8	BELT PRESS BUILDING - DEMOLITION PLAN AND SECTION
16	C9	BELT PRESS BUILDING - MODIFICATION PLAN AND SECTION
MISCELLANEOUS DETAILS		
17	MD1	MISCELLANEOUS DETAILS
ELECTRICAL		
18	E1	ELECTRICAL LEGEND
19	E2	ELECTRICAL SITE PLAN
20	E3	RAW SEWAGE AND UV ONE-LINES-DETAILS
21	E4	BELT FILTER PRESS BUILDING ONE-LINE DIAGRAM
22	E5	CONTROL BUILDING POWER PLAN
23	E6	RAW SEWAGE PUMP STATION POWER PLAN
24	E7	EXISTING UV ELECTRICAL MODIFICATIONS
25	E8	BELT PRESS BUILDING - ELECTRICAL PLAN
26	E9	ELECTRICAL DETAILS
27	E10	SOUTHWAY VILLA LIFT STATION ELECTRICAL PLAN
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	CHECKED BY	MLN							CITY OF SALEM SALEM, INDIANA		G1
	APPROVED BY	KRH							DRAWING INDEX, GENERAL NOTES, AND PROJECT LOCATION PLAN		PAGE NO.
	ISSUE DATE										2
	PROJECT NUMBER	201417-04-01									



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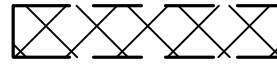


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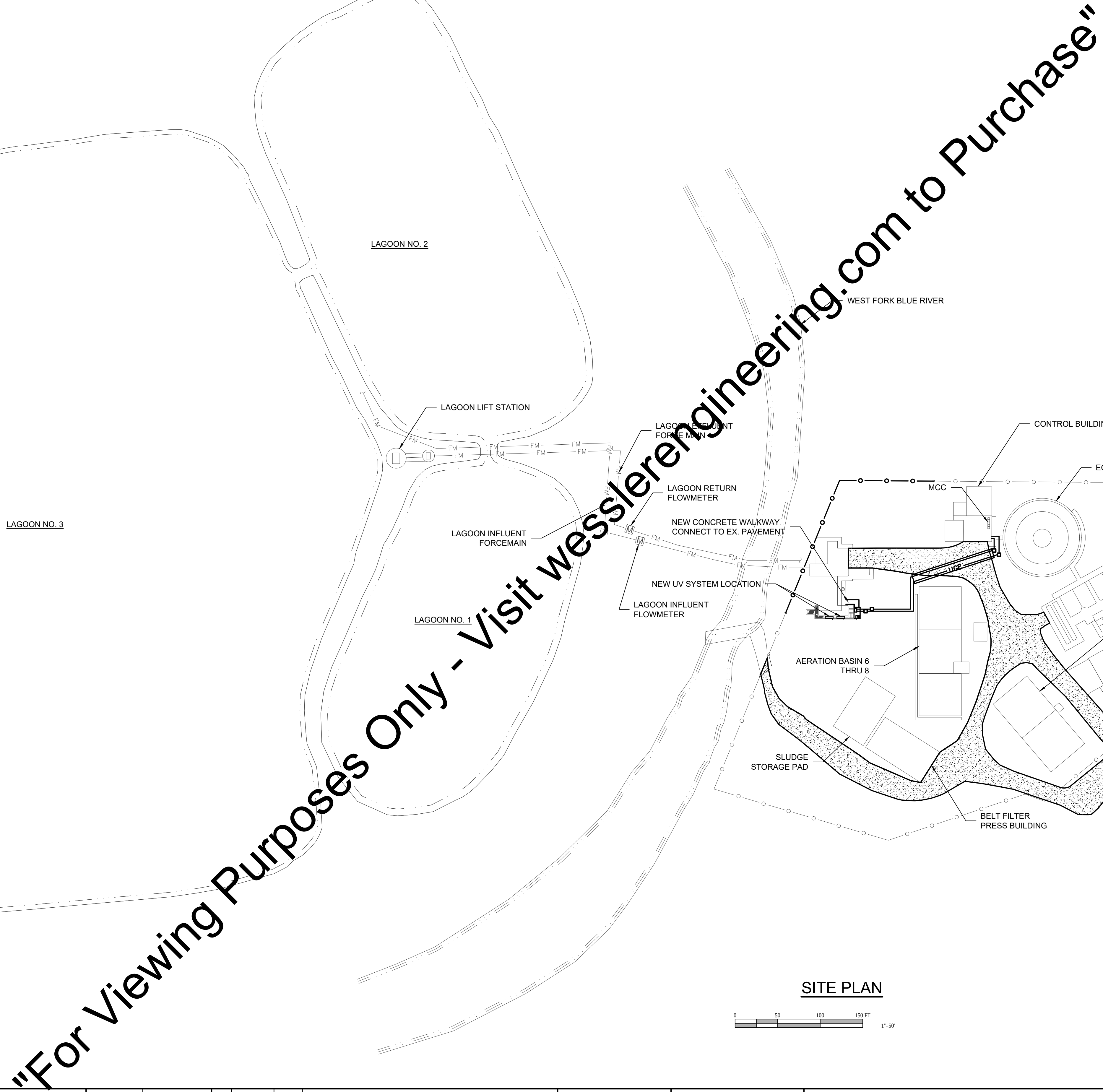
SITE PLAN



LEGENDS

-  EXISTING FEATURES TO BE DEMOLISH
-  EXISTING FEATURES TO REMAIN

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	CHECKED BY KLH								Y2
	APPROVED BY RWH								
	ISSUE DATE MAY 2018						ENLARGED EXISTING SITE PLAN		PAGE NO.
	PROJECT NUMBER 201417-04-01								4



0 50 100 150 FT

1"=50'

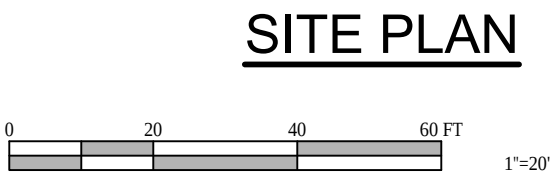
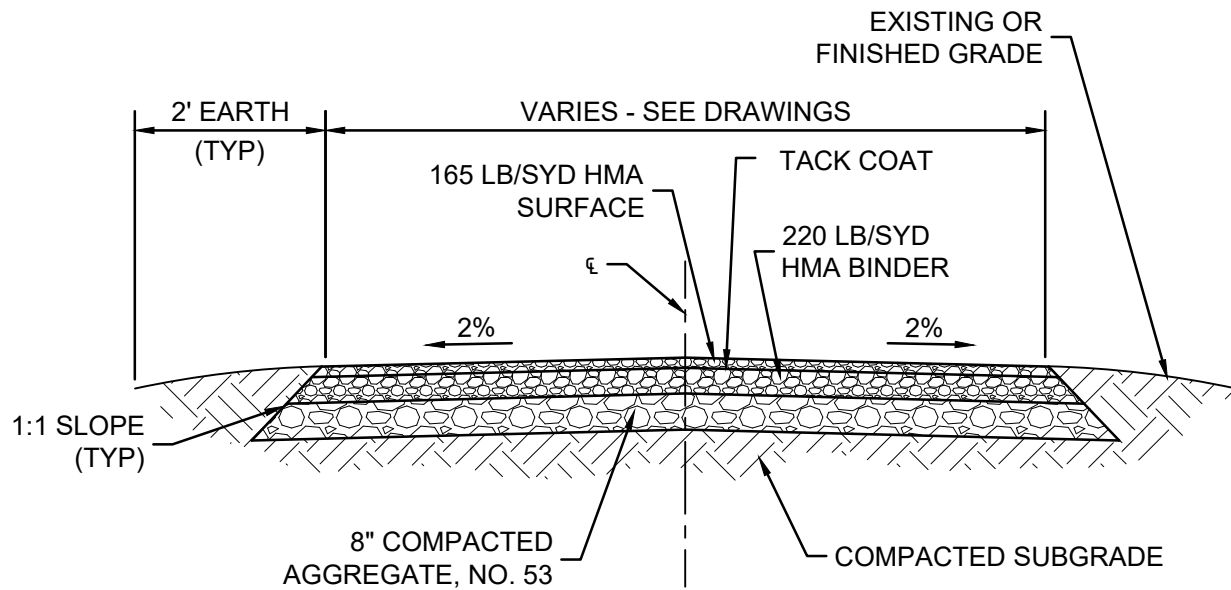
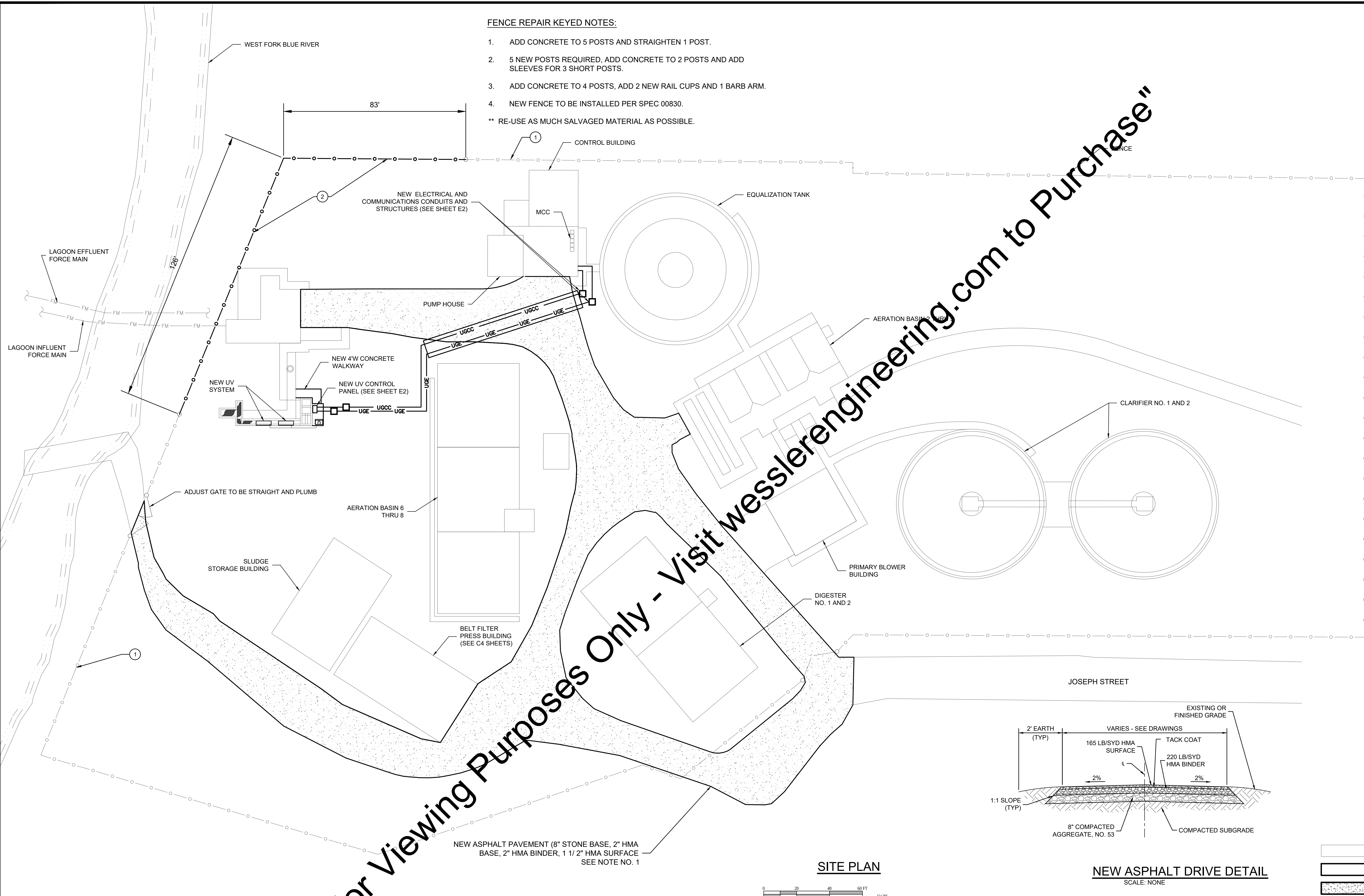
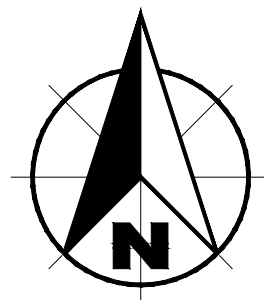
- ☐ EXISTING FEATURES
- ☒ NEW FEATURES (SEE Y4 FOR DETAILED INFORMATION)
- ☒ NEW ASPHALT PAVEMENT

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FENCE REPAIR KEYED NOTES:

1. ADD CONCRETE TO 5 POSTS AND STRAIGHTEN 1 POST.
2. 5 NEW POSTS REQUIRED, ADD CONCRETE TO 2 POSTS AND ADD SLEEVES FOR 3 SHORT POSTS.
3. ADD CONCRETE TO 4 POSTS, ADD 2 NEW RAIL CUPS AND 1 BARB ARM.
4. NEW FENCE TO BE INSTALLED PER SPEC 00830.

** RE-USE AS MUCH SALVAGED MATERIAL AS POSSIBLE.



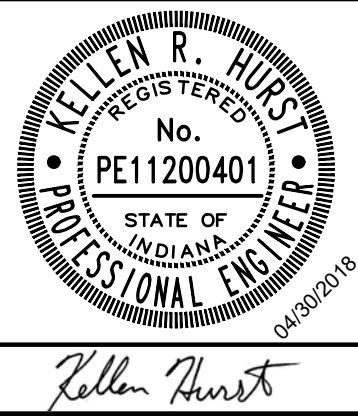
NOTES:

1. ALL NEW ASPHALT SURFACE TO MATCH EXISTING GRADE

LEGEND

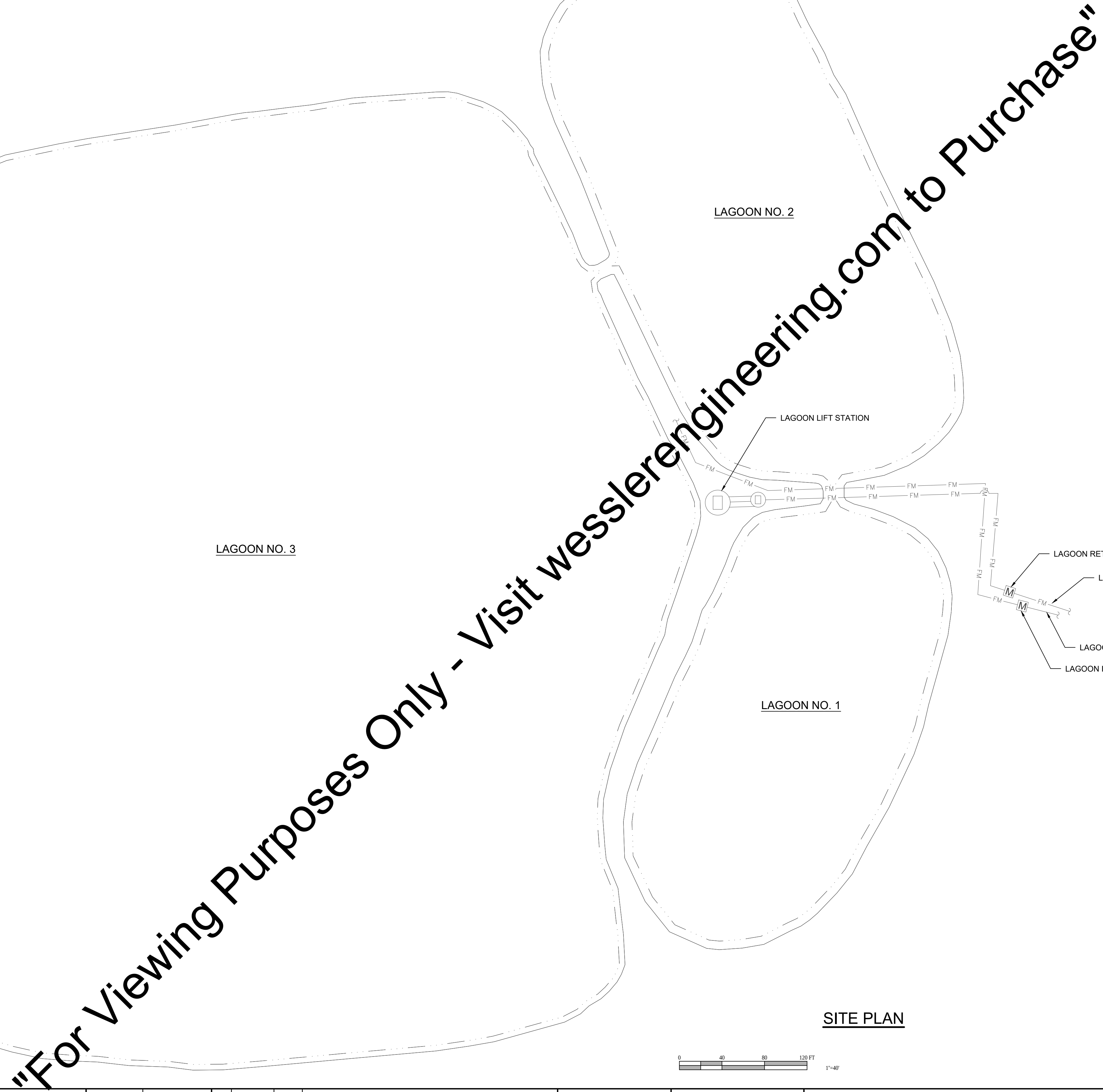
	EXISTING FEATURES
	NEW FEATURES
	NEW ASPHALT PAVEMENT

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	APPROVED BY	KRH				
	ISSUE DATE					
	MAY 2018					
	PROJECT NUMBER					
	201417-04-01					



WWTP IMPROVEMENTS	
CITY OF SALEM SALEM, INDIANA	
ENLARGED NEW SITE PLAN	

SHEET NO.
Y 4
PAGE NO.
6



0 40 80 120 FT

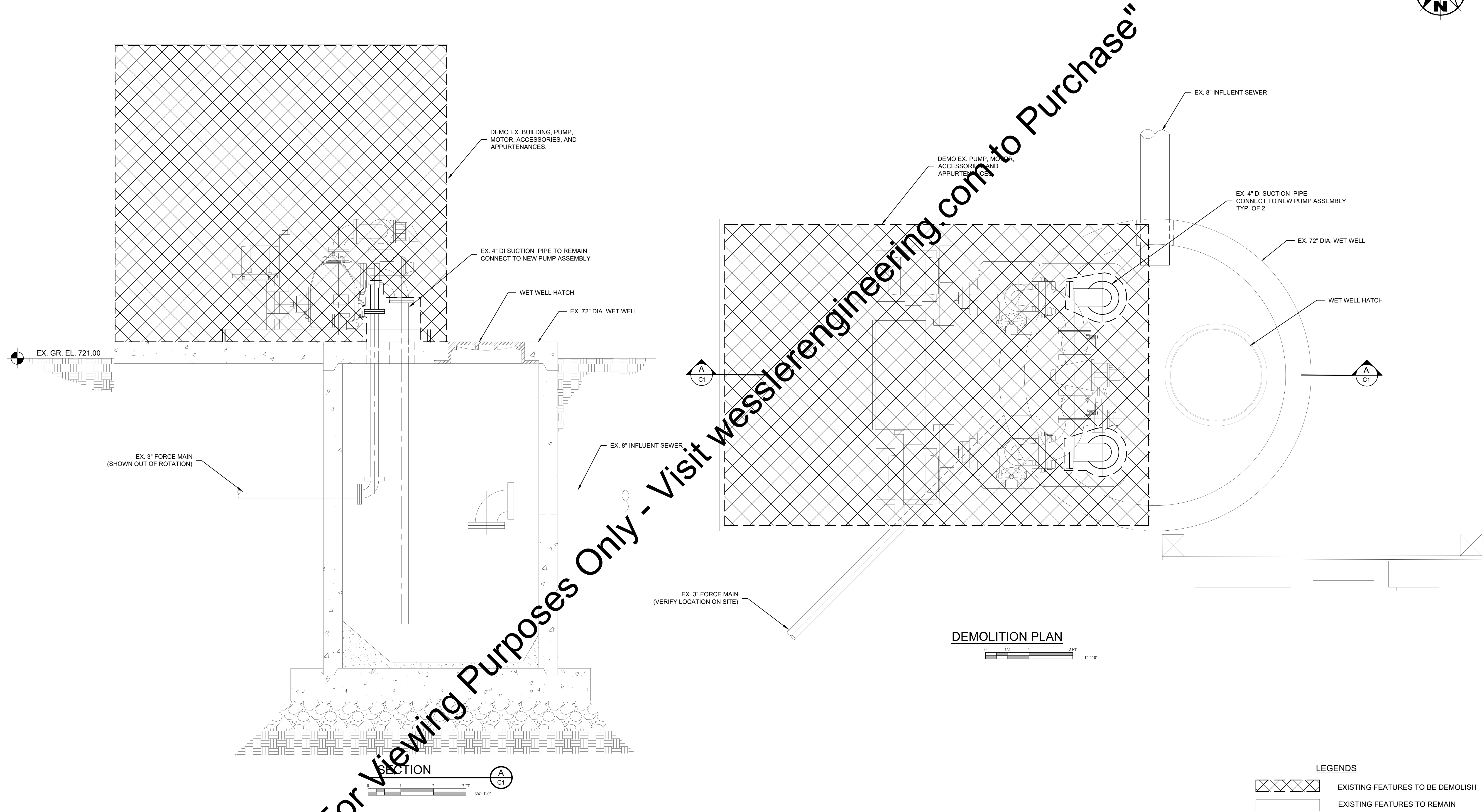
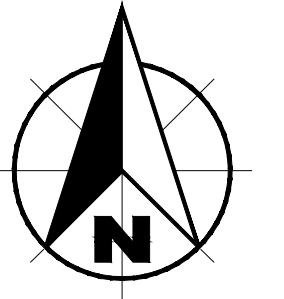
1"=40'

- | | | | | | | |
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 | CHECKED BY | MLN | | | | |
| | APPROVED BY | KRH | | | | |
| | ISSUE DATE | | | | | |
| | MAY 2018 | | | | | |
| | PROJECT NUMBER | | | | | |
| | 201417-04-01 | | | | | |



ENLARGED LAGOON SITE PLAN

1



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	APPROVED BY	KRH				
	ISSUE DATE					
	PROJECT NUMBER					
		MAY 2018				
		201417-04-01				
W WESSLER ENGINEERING More than a Project™						
WWTP IMPROVEMENTS CITY OF SALEM SALEM, INDIANA						
SOUTHWAY VILLA LIFT STATION - DEMOLITION PLAN AND SECTION						

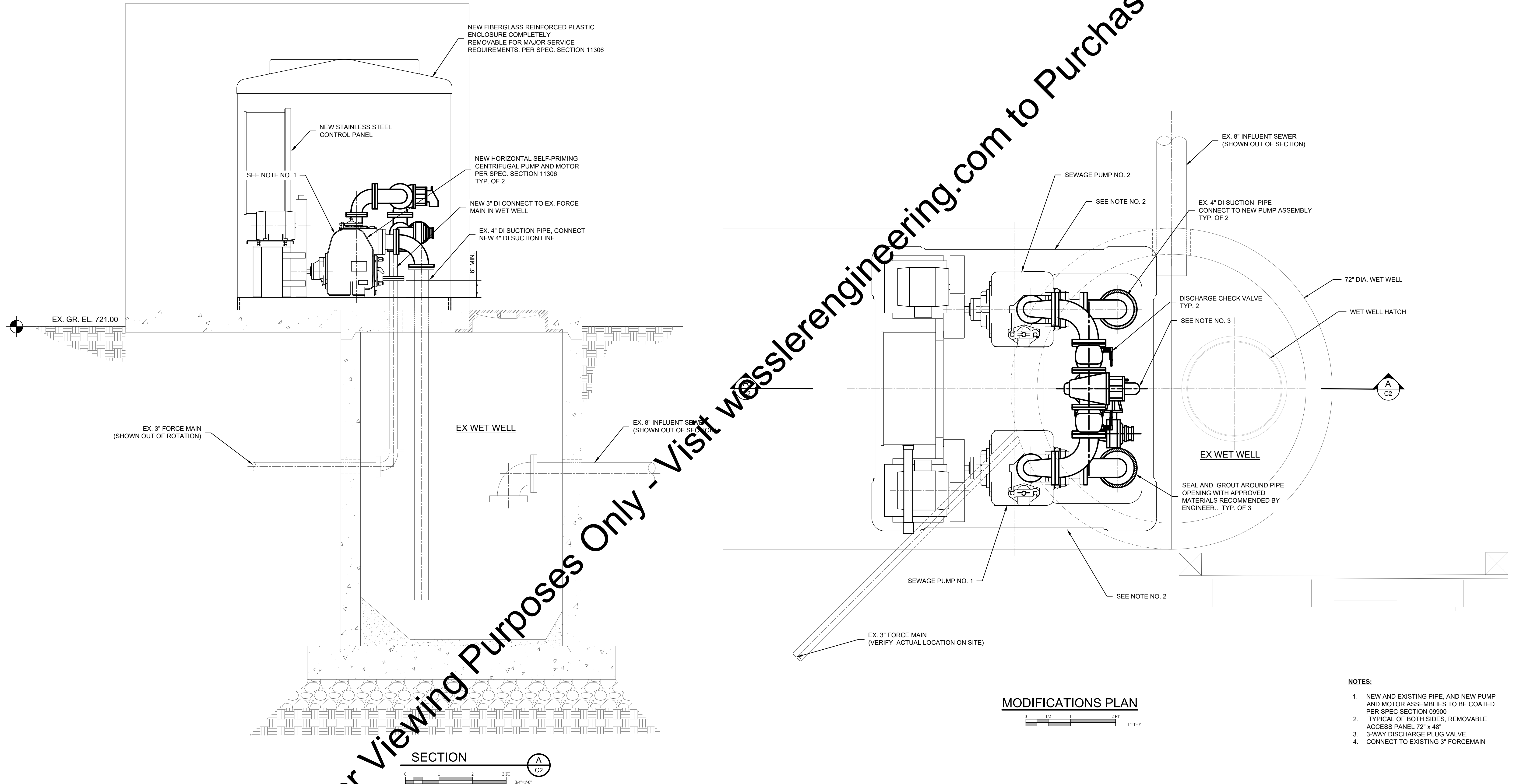
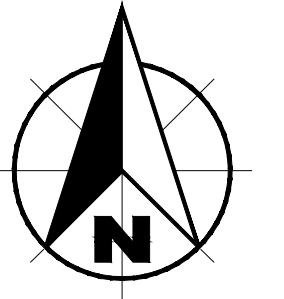
SHEET NO.

C1

PAGE NO.

8

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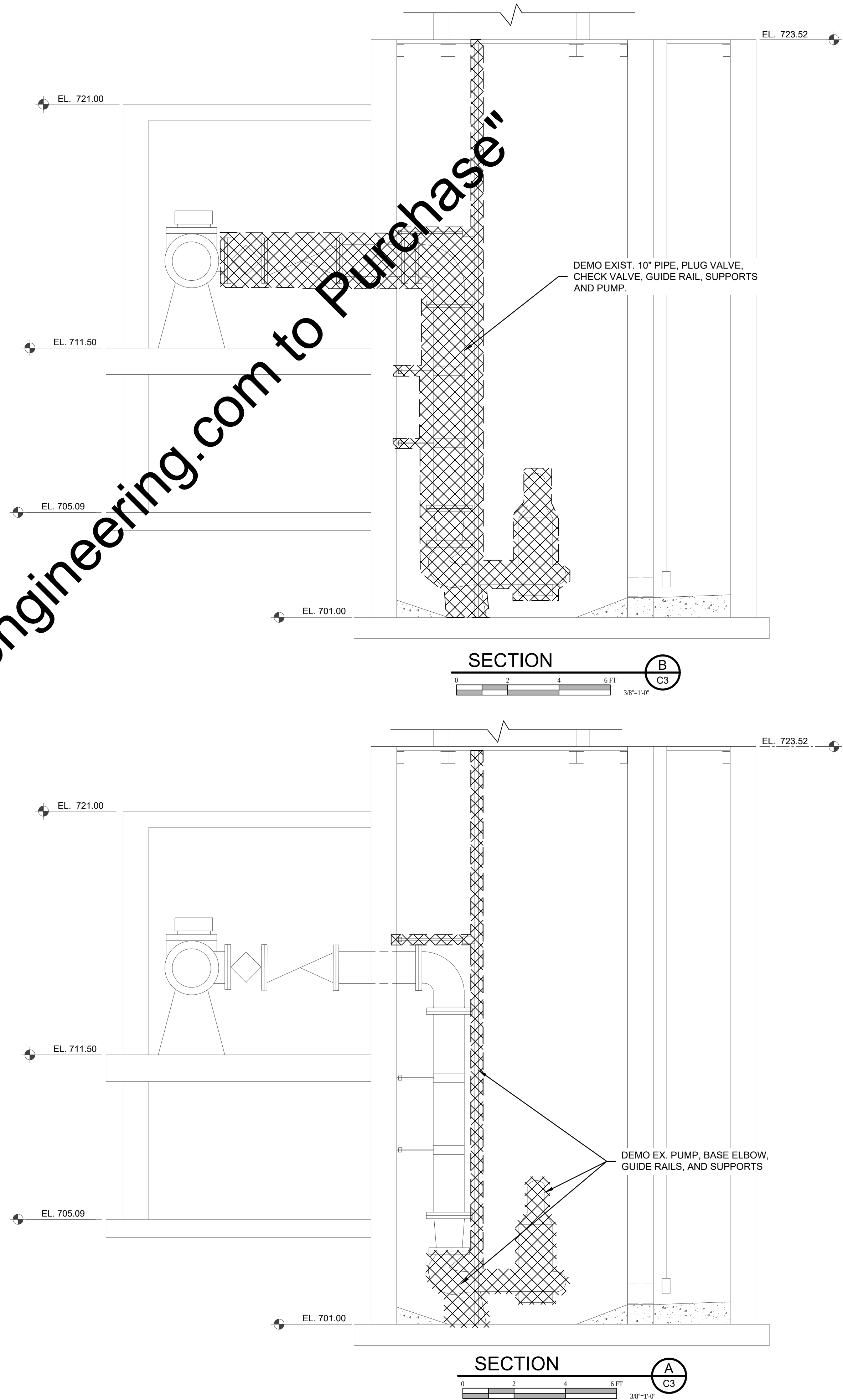
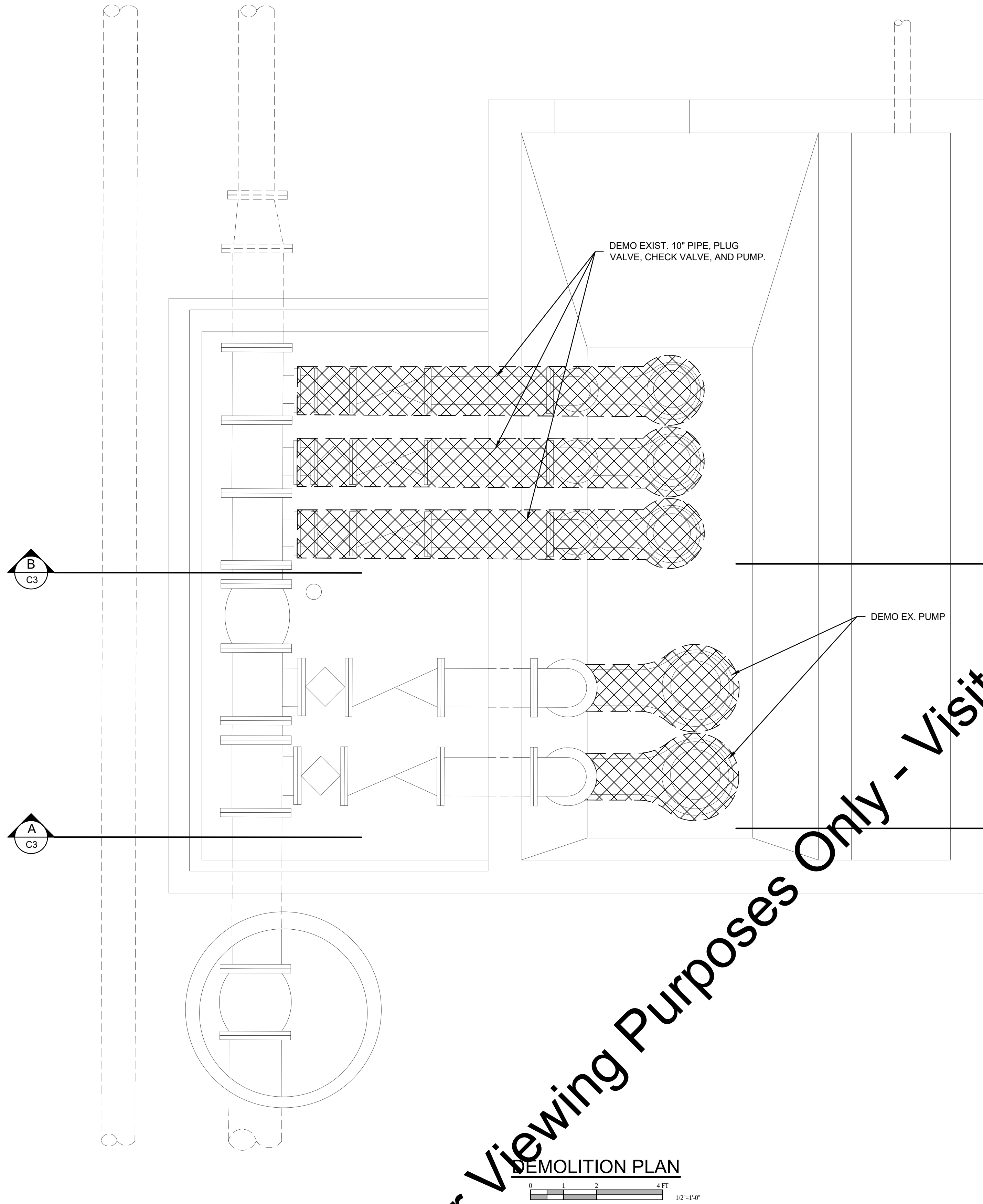
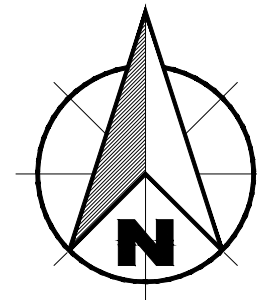


- NOTES:**
1. NEW AND EXISTING PIPE, AND NEW PUMP AND MOTOR ASSEMBLIES TO BE COATED PER SPEC SECTION 09900
 2. TYPICAL OF BOTH SIDES, REMOVABLE ACCESS PANEL 72" x 48"
 3. 3-WAY DISCHARGE PLUG VALVE
 4. CONNECT TO EXISTING 3" FORCEMAIN

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	PROJECT NUMBER	201417-04-01				
MAY 2018						

		WWTP IMPROVEMENTS CITY OF SALEM SALEM, INDIANA	SHEET NO. C2
SOUTHWAY VILLA LIFT STATION - MODIFICATIONS PLAN AND SECTION			PAGE NO. 9

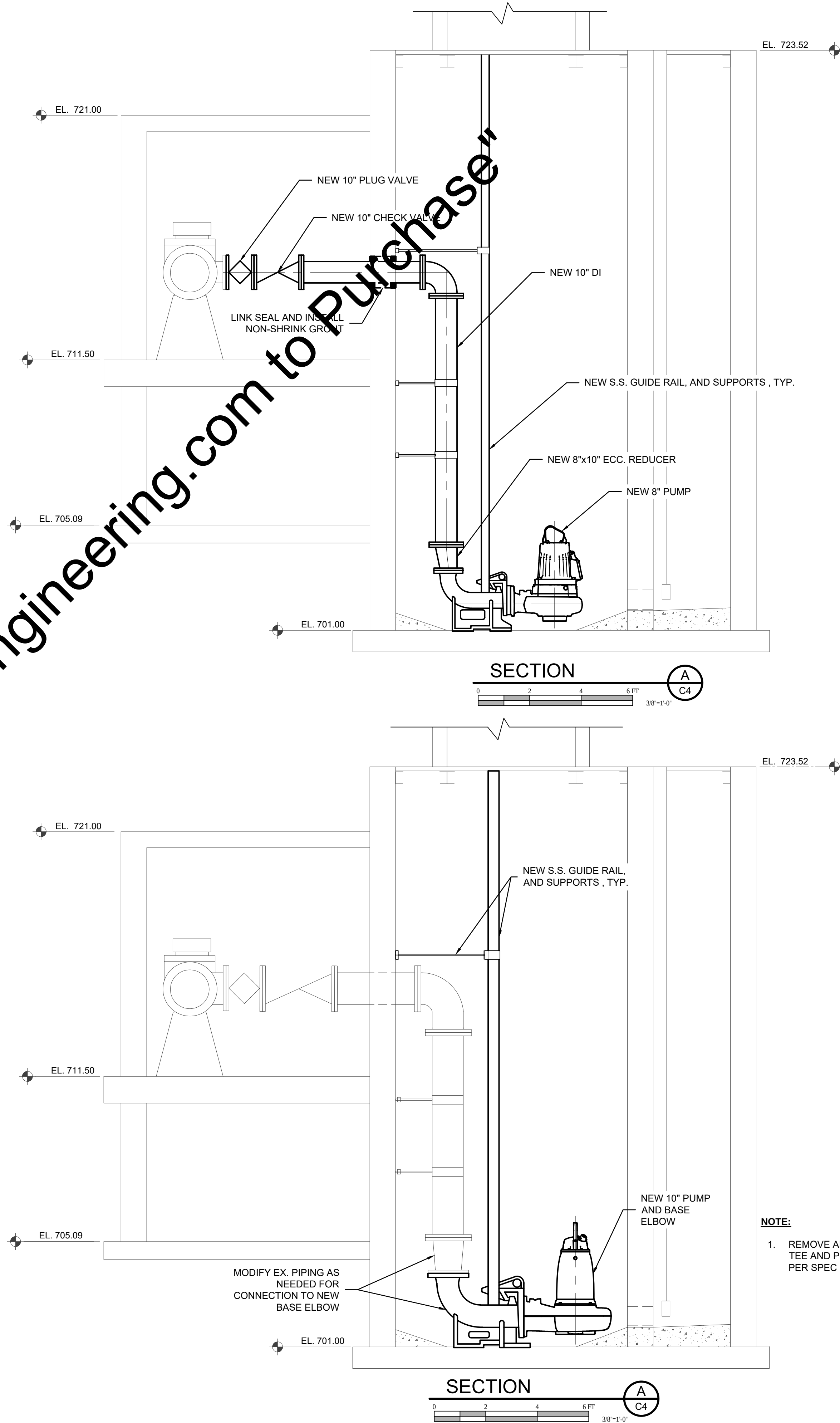
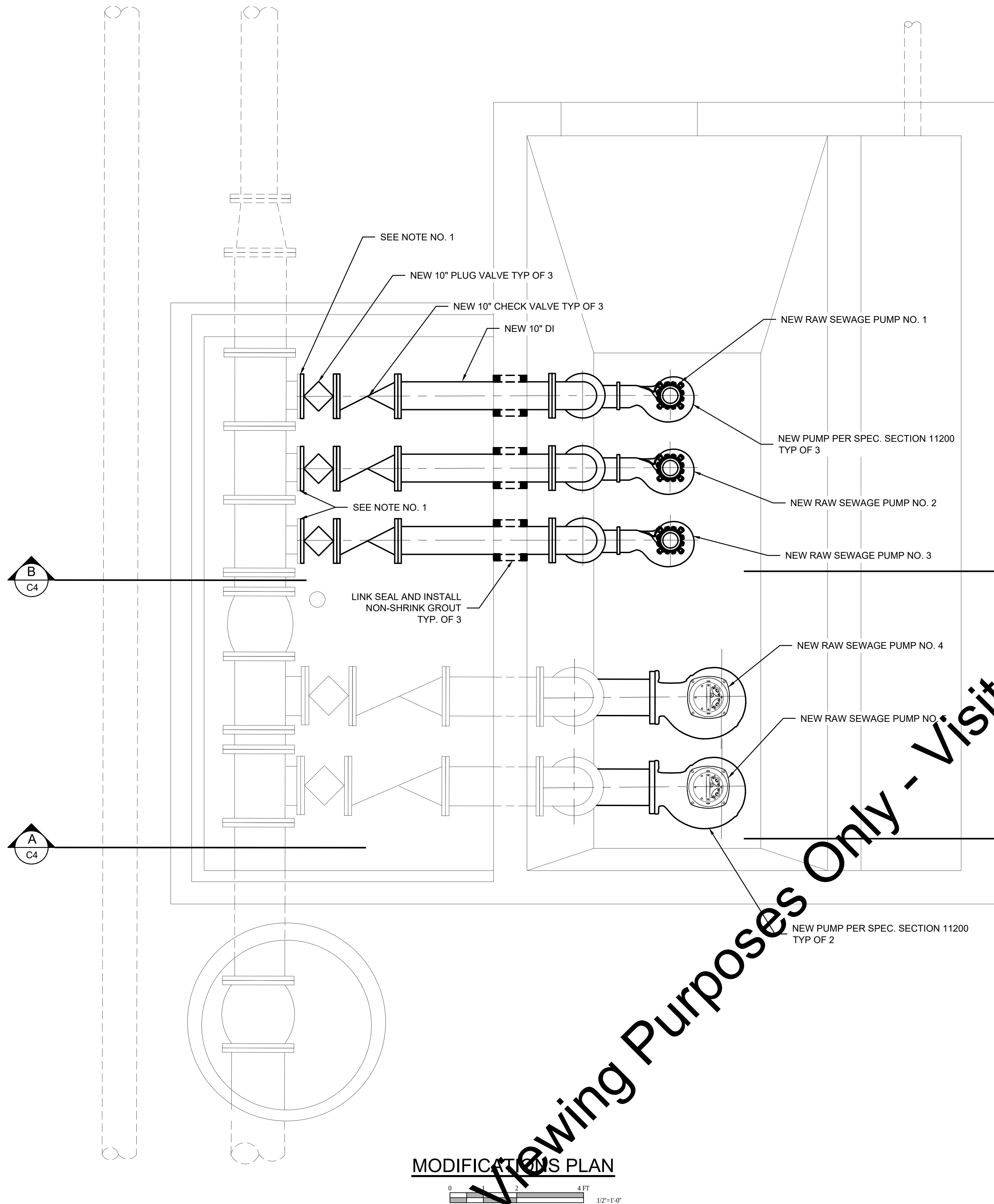
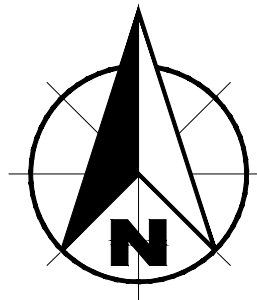
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	APPROVED BY	KRH									
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	MAY 2018										
	PROJECT NUMBER										
	201417-04-01							RAW SEWAGE PUMP STATION - DEMOLITION PLAN AND SECTIONS		PAGE NO. 10	

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- NOTE:**
1. REMOVE ANY RESIDUAL MATERIAL OF EXISTING TEE AND PROVIDE NEW GASKET WITH VALVE PER SPEC SECTION 15080.

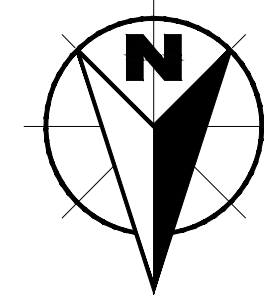
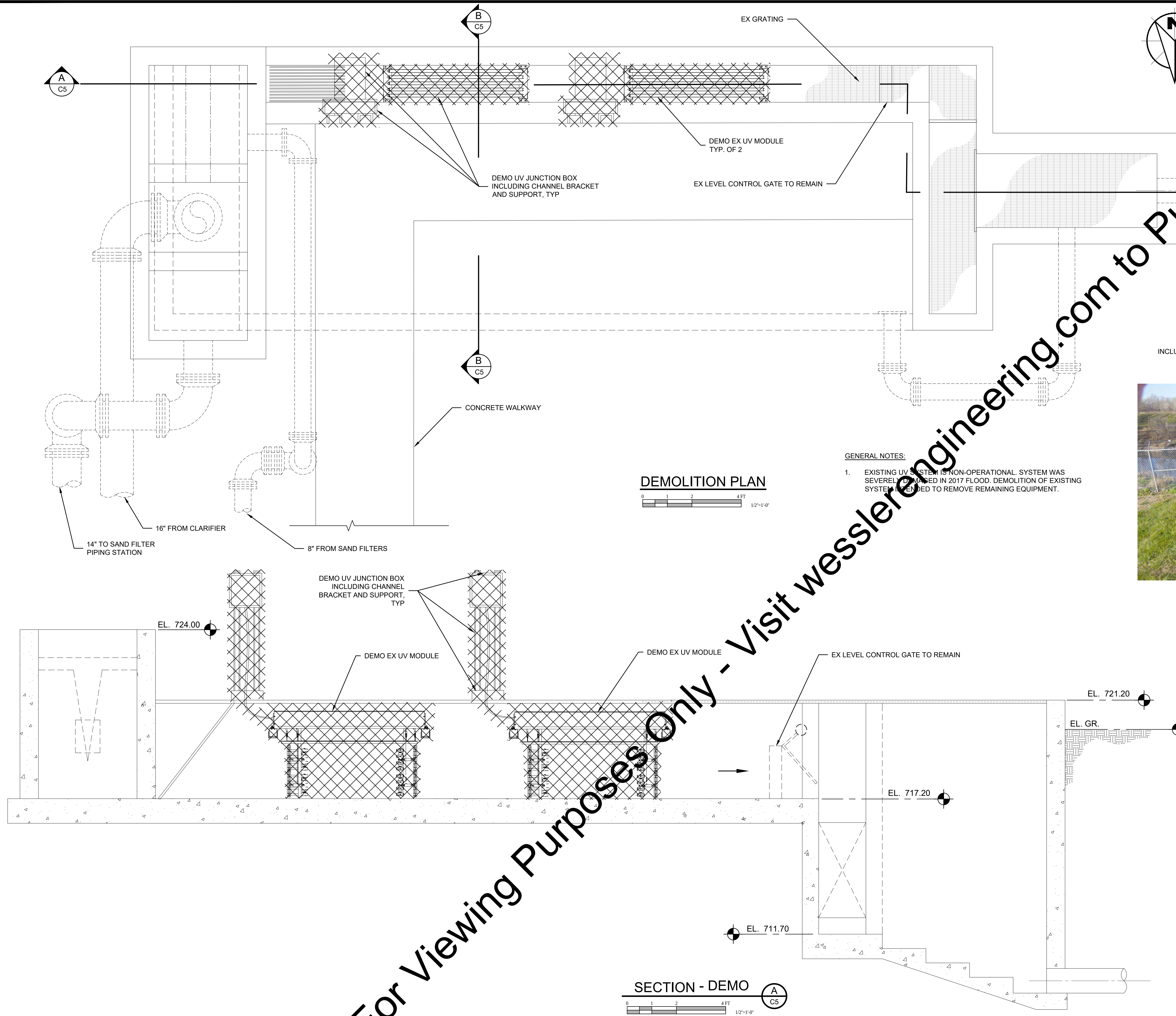
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	MAY 2018					
PROJECT NUMBER		201417-04-01				



WWTP IMPROVEMENTS	
CITY OF SALEM SALEM, INDIANA	
RAW SEWAGE PUMP STATION - MODIFICATION PLAN AND SECTION	

SHEET NO.	C4
PAGE NO.	11

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DEMO UV JUNCTION BOX
INCLUDING CHANNEL BRACKET
AND SUPPORT, TYP

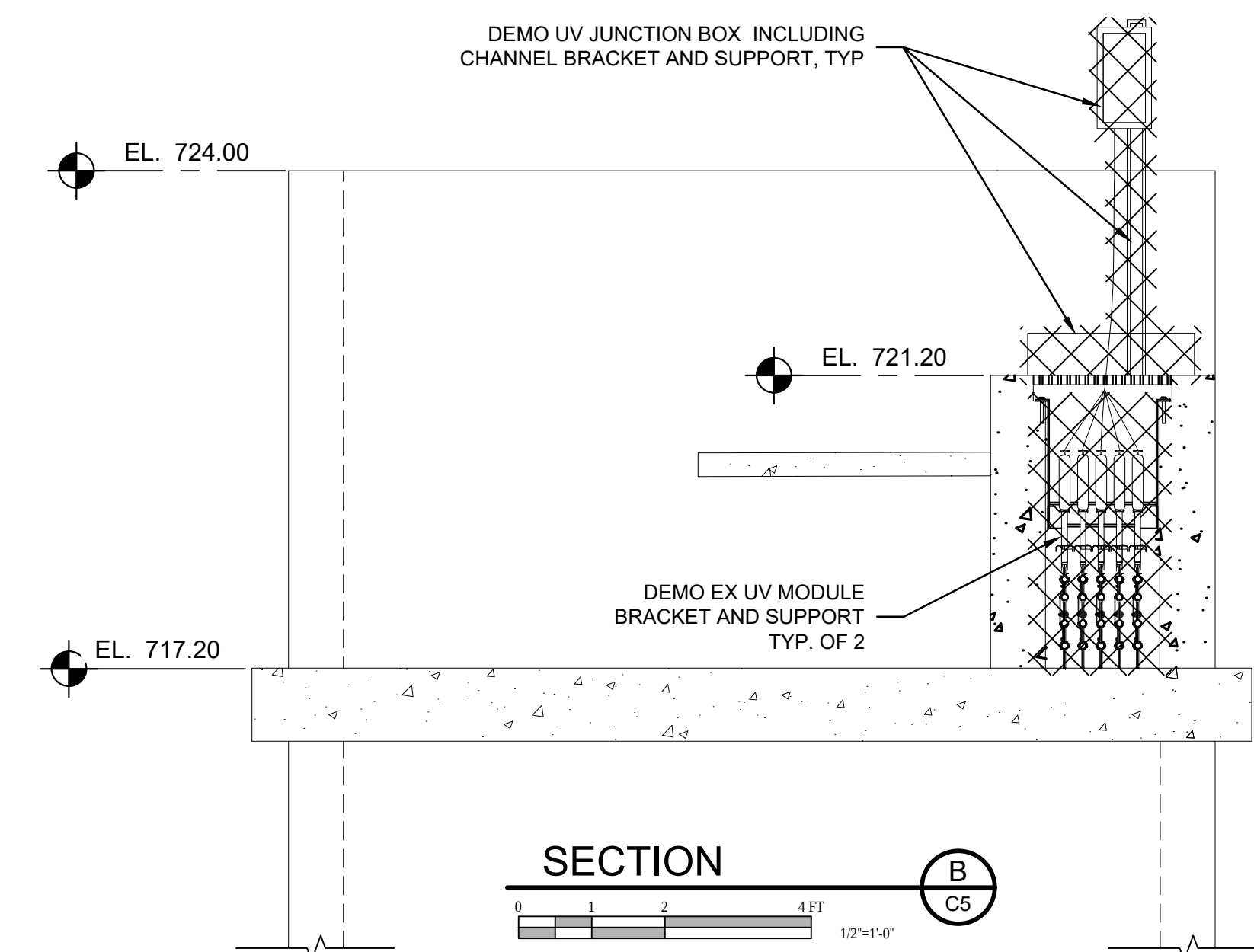
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SCALE: NONE



PHOTO LOOKING WEST
SCALE: NONE



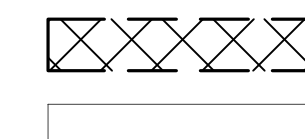
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GENERAL NOTE:

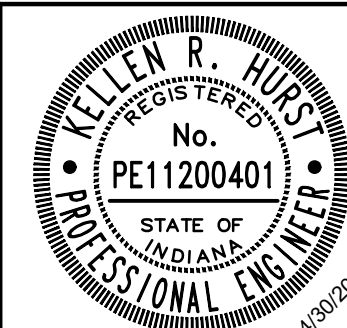
- REMOVE EXISTING GRATING AS NECESSARY FOR INSTALLATION OF NEW UV DISINFECTION SYSTEM. REINSTALL EXISTING GRATING.

LEGENDS



- EXISTING FEATURES TO BE DEMOLISH
- EXISTING FEATURES TO REMAIN

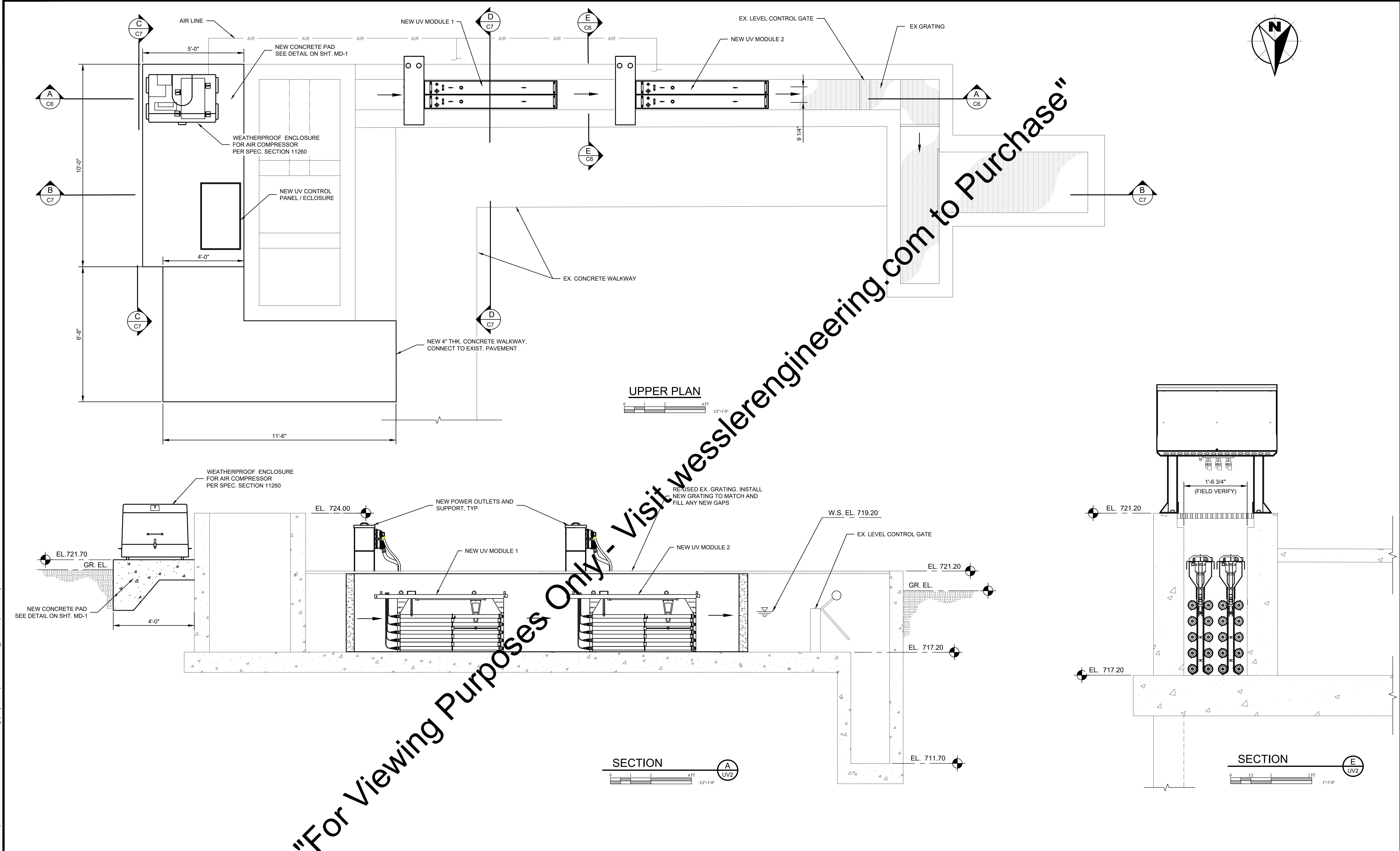
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	ISSUE DATE					
	MAY 2018					
	PROJECT NUMBER	201417-04-01				



WWTP IMPROVEMENTS	
CITY OF SALEM SALEM, INDIANA	
EXISTING UV STRUCTURE - DEMOLITION PLAN AND SECTIONS	

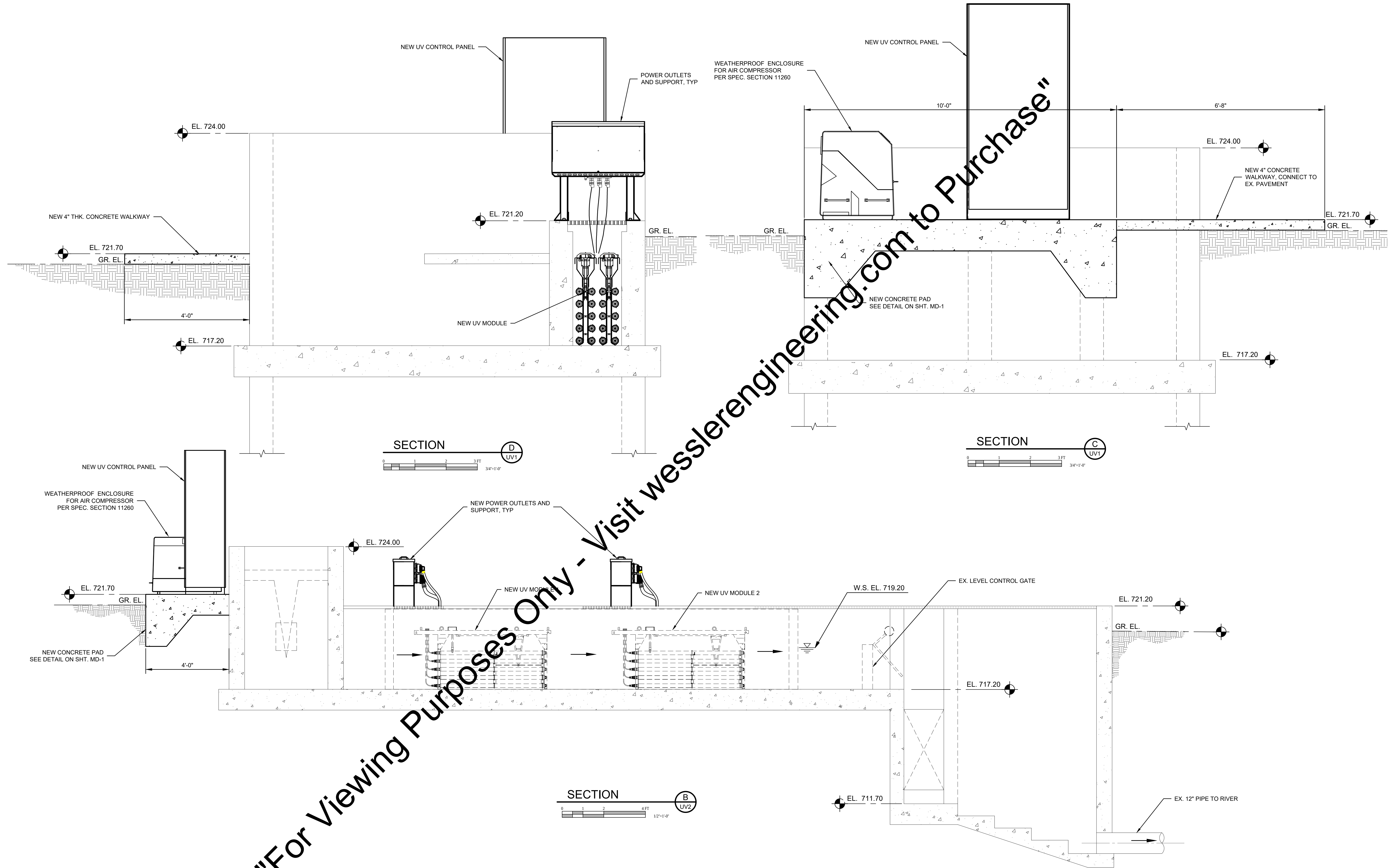
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	MAY 2018									13
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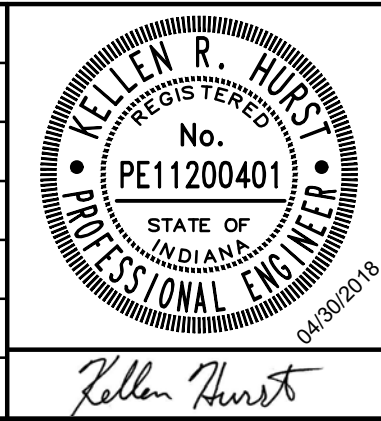
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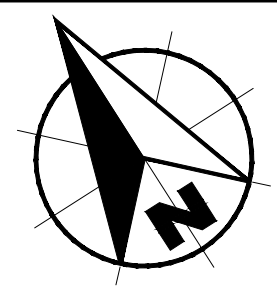

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NO.	DATE	INITIALS	REVISION DESCRIPTIONS



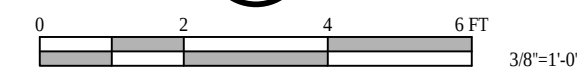
WWTP IMPROVEMENTS
CITY OF SALEM SALEM, INDIANA
EXISTING UV STRUCTURE MODIFICATION SECTIONS

SHEET NO.
C7
PAGE NO.
14



7 FEATURES TO BE DEMOLISHED

SCALE: 3/8" = 1'-0"



W
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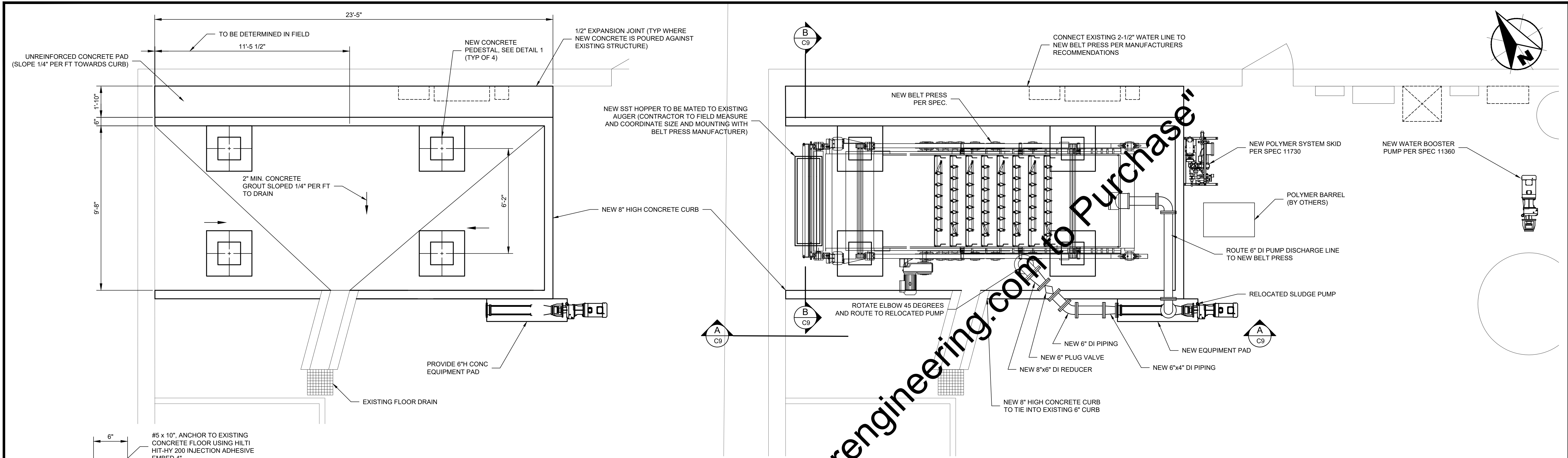
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CITY OF SALEM SALEM, INDIANA
BELT PRESS BUILDING - DEMOLITION PLAN AND SECTIONS

SHEET NO

C 8

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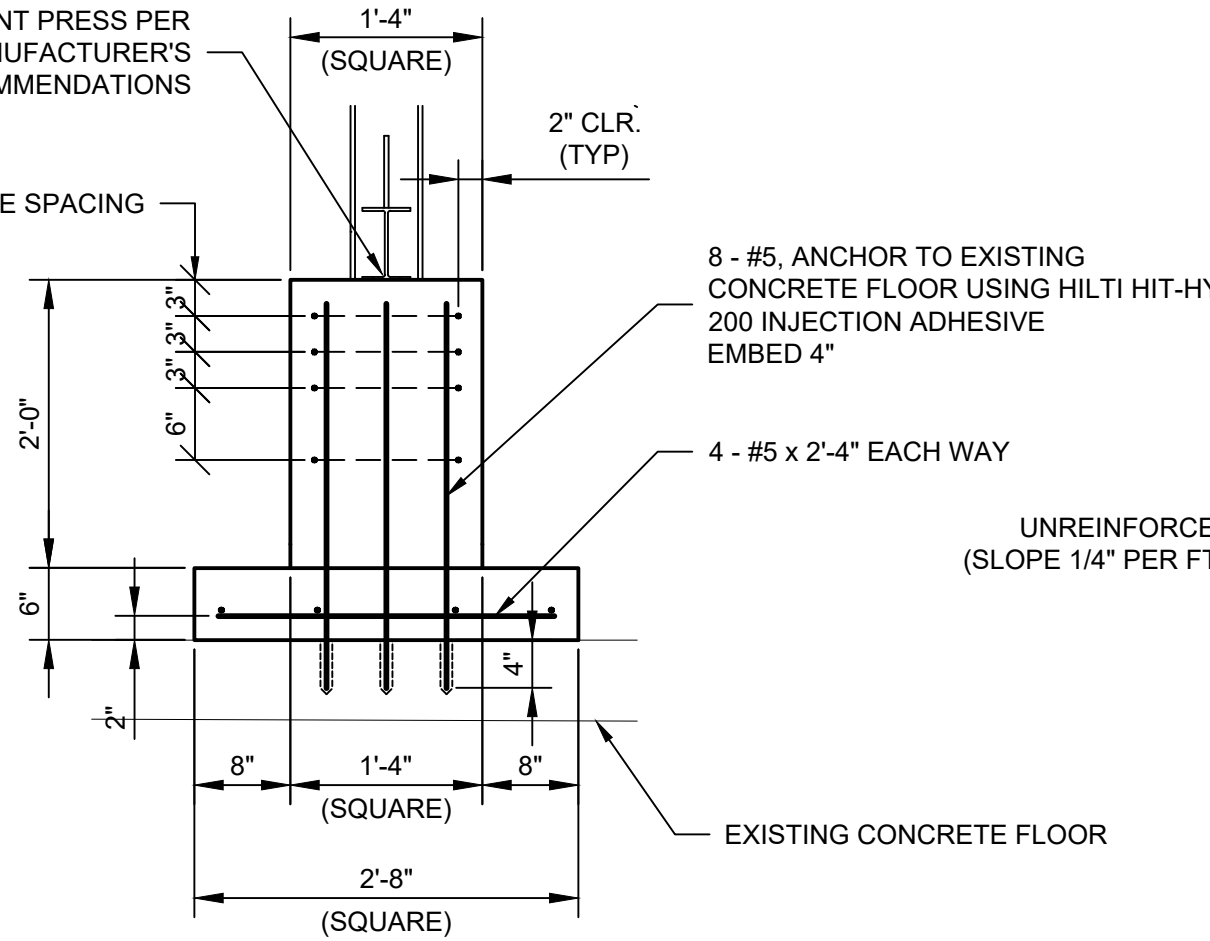
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BELT PRESS - STRUCTURAL PLAN

BELT PRESS BUILDING - MODIFICATION PLAN

CURB DETAIL



PEDESTAL DETAIL

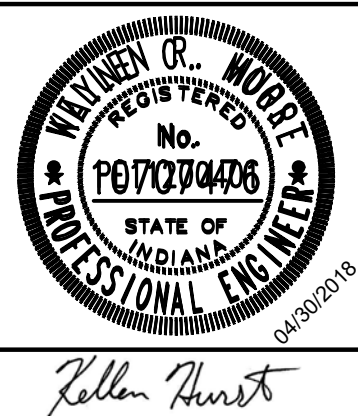
SECTION

SECTION

LEGEND

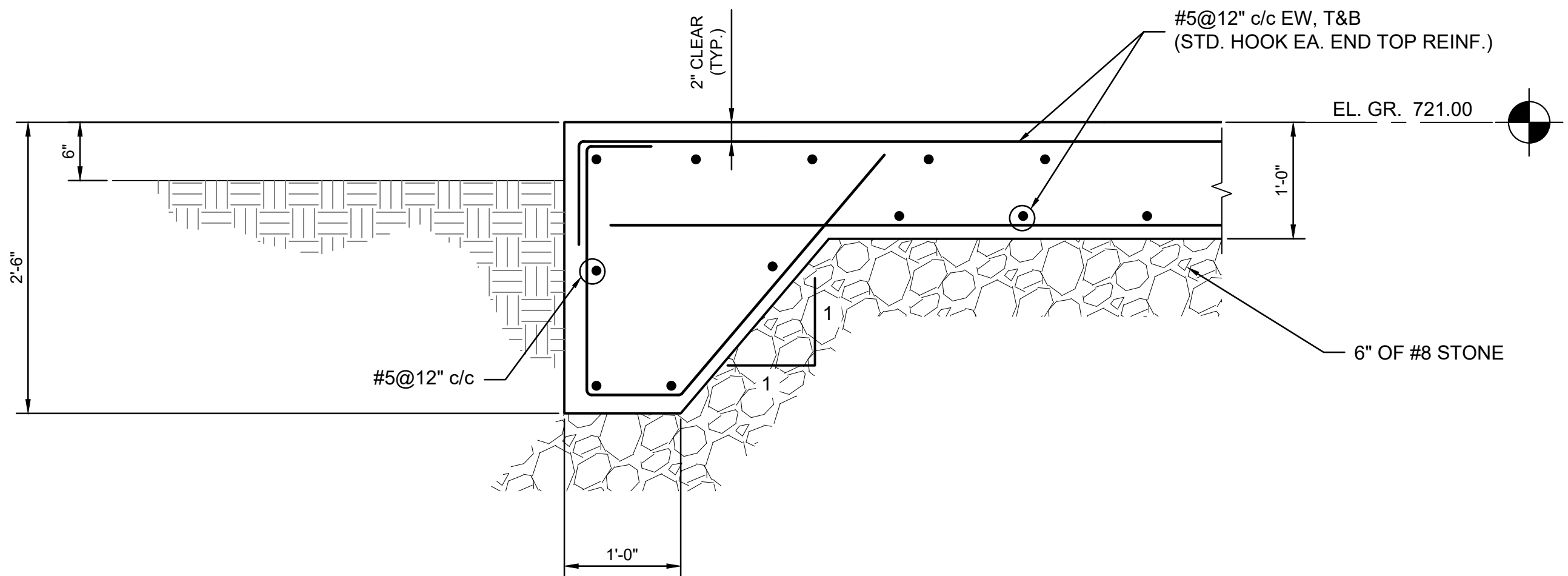
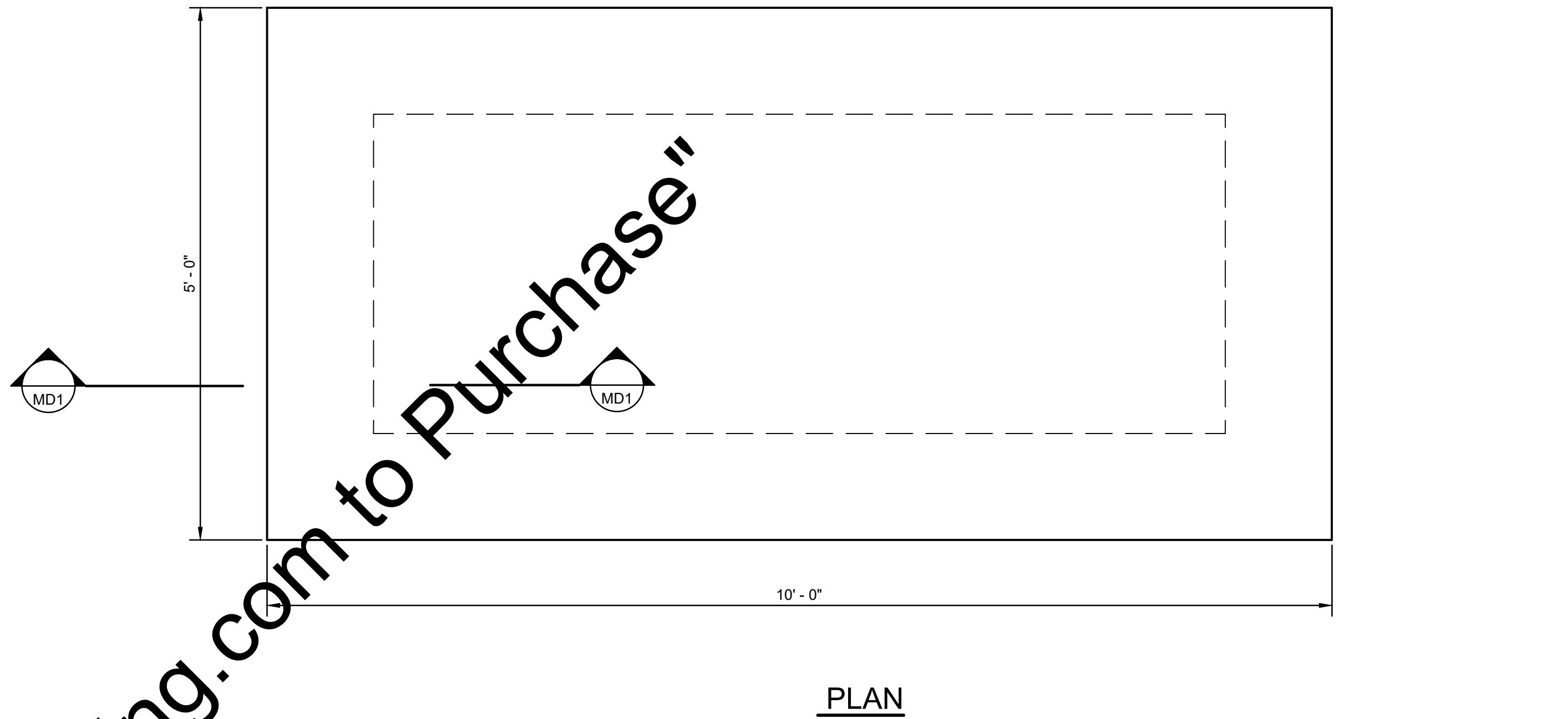
- FEATURES TO REMAIN
- NEW FEATURES

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	APPROVED BY	RWH				
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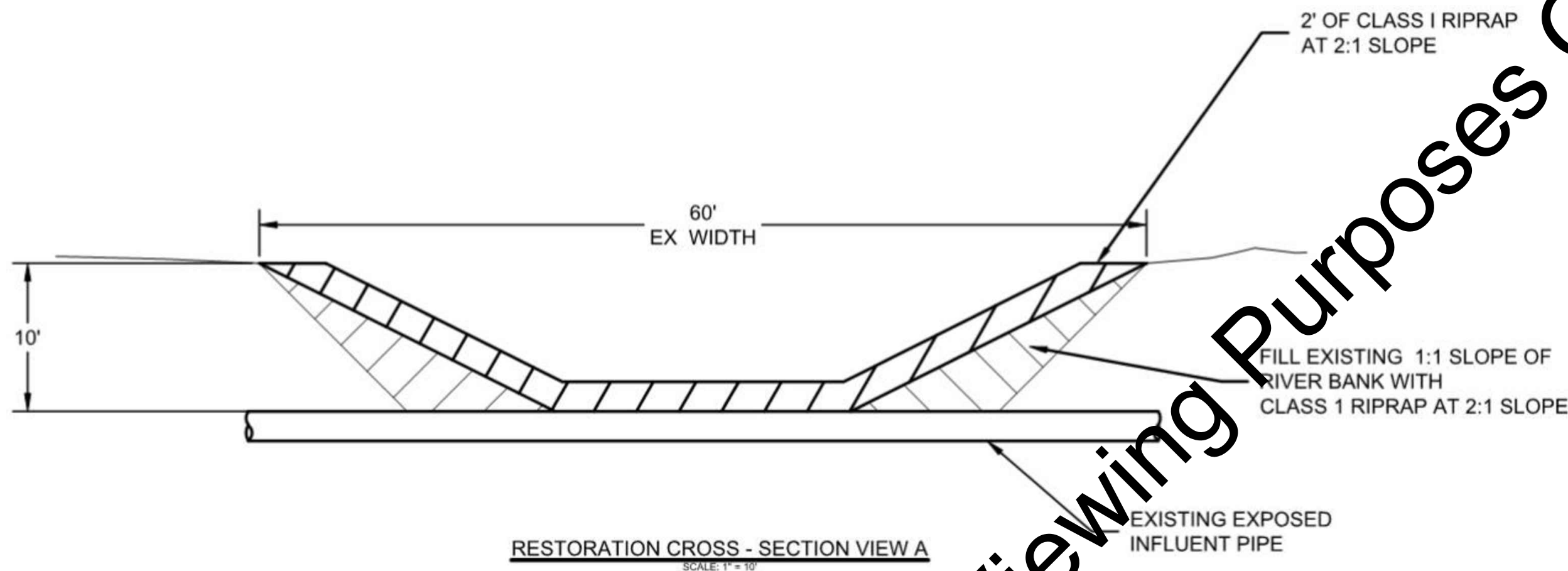
WWTP IMPROVEMENTS
CITY OF SALEM
SALEM, INDIANA

BELT PRESS BUILDING - MODIFICATIONS
PLAN AND SECTIONS



TYPICAL SECTION

PREFABRICATED EQUIPMENT FOUNDATION
SCALE: 1" = 1'-0"



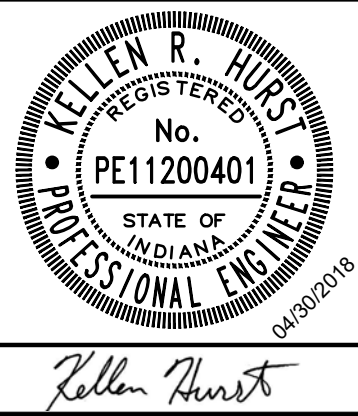
RIVER BANK RESTORATION AT EXISTNG INFLUENT SEWER
SCALE: NONE

CLASS I RIPRAP SPECIFICAION	
SIEVE SIZE	% SMALLER BY VISUAL INSPECTION
24 IN	100
18 IN	85-100
12 IN	35-50
6 IN	10-30
3 IN	0-10

MATERIALS
1. GEOTEXTILE FABRIC SHOULD BE USED FOR STABILIZATION UNDER ALL PERMANENT RIPRAP INSTALLATION

Drawing: J:\Salem\Projects\201417 Salem WWTP Improve\CAD 04-001\DWG\Sheets\201417-MS.dwg | Layout: MD1 | Plotted: 04/30/18 @ 09:44:27 | LastSavedBy: FrankieT

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	CHECKED BY	MLN				
	APPROVED BY	KRH				
	ISSUE DATE					
	PROJECT NUMBER	201417-04-01				



WWTP IMPROVEMENTS	
CITY OF SALEM SALEM, INDIANA	
MISCELLANEOUS DETAILS	

SHEET NO.
MD1
PAGE NO.
17

Drawing: J:\Salem\Projects\201417 Salem WWTP Improve\CAD 04-001\DWG\Sheets\201417-EL-LEGEND.dwg | Layout: E1 | Plotted: 05/01/18 @ 01:18:34 | LastSavedBy: MikeN

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LIGHTING

SURFACE/PENDANT MOUNTED FLUORESCENT FIXTURE LETTER DENOTES TYPE, # DENOTES CIRCUIT, SHADING DENOTES EMERGENCY AND/OR NIGHT LIGHT

LIGHTING

SURFACE/PENDANT MOUNTED FLUORESCENT FIXTURE LETTER DENOTES TYPE, # DENOTES CIRCUIT, SHADING DENOTES EMERGENCY AND/OR NIGHT LIGHT

LIGHTING

RECESS MOUNTED FLUORESCENT FIXTURE LETTER DENOTES TYPE, # DENOTES CIRCUIT, SHADING DENOTES EMERGENCY AND/OR NIGHT LIGHT

LIGHTING

RECESS MOUNTED FLUORESCENT FIXTURE LETTER DENOTES TYPE, # DENOTES CIRCUIT, SHADING DENOTES EMERGENCY AND/OR NIGHT LIGHT

LIGHTING

H.I.D. OR INCANDESCENT FIXTURE CEILING MOUNTED LETTER DENOTES TYPE, # DENOTES CIRCUIT

LIGHTING

WALL MOUNTED FIXTURE LETTER DENOTES TYPE, # DENOTES CIRCUIT

LIGHTING

WALL MOUNTED PHOTOCELL

LIGHTING

CEILING MOUNTED EXIT SIGN

LIGHTING

WALL MOUNTED EXIT SIGN

LIGHTING

EMERGENCY LIGHT FIXTURE # DENOTES CIRCUIT

LIGHTING

POLE MOUNTED FIXTURE

LIGHTING

DUPLEX RECEPTACLE SUBSCRIPT DENOTES TYPE: UPS DENOTES UNINTERRUPTIBLE POWER SUPPLY # DENOTES CIRCUIT

LIGHTING

SINGLE OUTLET RECEPTACLE

LIGHTING

SPECIAL PURPOSE OUTLET

LIGHTING

MULTI-OUTLET RECEPTACLE SINGLE

LIGHTING

MULTI-OUTLET RECEPTACLE DUPLEX

LIGHTING

240 VOLT RECEPTACLE

LIGHTING

PANELS AND BOXES

LIGHTING

JUNCTION BOX

LIGHTING

PULL BOX

LIGHTING

PANEL

LIGHTING

HVAC AND FIRE ALARM

LIGHTING

FIRE ALARM PULL STATION

LIGHTING

FIRE ALARM CONTROL PANEL

LIGHTING

ANNUNCIATOR

LIGHTING

HORN/LIGHT DEVICE

LIGHTING

DUCT DETECTOR

LIGHTING

SMOKE DETECTOR SUBSCRIPT DENOTES TYPE: Z DENOTES IONIZATION P DENOTES PHOTOELECTRIC T DENOTES THERMAL

LIGHTING

THERMOSTAT

LIGHTING

AMBIENT TEMPERATURE TRANSMITTER

LIGHTING

UNIT HEATER

LIGHTING

WALL MOUNTED GAS DETECTION FIXTURE

LIGHTING

SWITCHES

LIGHTING

WALL SWITCH SUBSCRIPT DENOTES TYPE: NO SUBSCRIPT DENOTES SINGLE POLE 3 DENOTES 3 WAY M DENOTES MANUAL MOTOR STARTER 4 DENOTES 4 WAY D DENOTES DIMMER

LIGHTING

MOTOR STARTER

LIGHTING

COMBINATION MOTOR STARTER

LIGHTING

DISCONNECT SWITCH

LIGHTING

FUSED DISCONNECT SWITCH

LIGHTING

DOOR LIMIT SWITCH

LIGHTING

LOCAL CONTROL STATION

LIGHTING

SPEED SWITCH

WIRING

CONDUIT HOME RUN

WIRING

CONDUIT EXPOSED

WIRING

CONDUIT CONCEALED

WIRING

FLEXIBLE CONDUIT

WIRING

SCHEMATICS

WIRING

3-POSITION SELECTOR SWITCH HAND - OFF - AUTO

WIRING

PUSHBUTTON SWITCH N.O. TEXT DENOTES LEGEND PLATE

WIRING

PUSHBUTTON SWITCH N.C. TEXT DENOTES LEGEND PLATE

WIRING

MUSHROOM HEAD EMERGENCY STOP PUSHBUTTON SWITCH N.C. MAINTAINED TEXT DENOTES LEGEND PLATE

WIRING

PUSHBUTTON SWITCH N.C. WITH LOCK-OUT TEXT DENOTES LEGEND PLATE

WIRING

DISCONNECT SWITCH N.O.

WIRING

DISCONNECT SWITCH N.C.

WIRING

TEMPERATURE SWITCH OR THERMOSTAT N.O. TEXT DENOTES TAG NUMBER

WIRING

TEMPERATURE SWITCH OR THERMOSTAT N.C. TEXT DENOTES TAG NUMBER

WIRING

PRESSURE SWITCH N.O. TEXT DENOTES TAG NUMBER

WIRING

PRESSURE SWITCH N.C. TEXT DENOTES TAG NUMBER

WIRING

LEVEL SWITCH N.O. TEXT DENOTES TAG NUMBER

WIRING

LEVEL SWITCH N.C. TEXT DENOTES TAG NUMBER

WIRING

ON DELAY TIMED SWITCH N.O.T.C. TEXT DENOTES TAG NUMBER

WIRING

ON DELAY TIMED SWITCH N.C.T.O. TEXT DENOTES TAG NUMBER

WIRING

OFF DELAY TIMED SWITCH N.O.T.O. TEXT DENOTES TAG NUMBER

WIRING

OFF DELAY TIMED SWITCH N.C.T.C. TEXT DENOTES TAG NUMBER

WIRING

TORQUE SWITCH TEXT DENOTES TAG NUMBER

WIRING

LIMIT SWITCH TEXT DENOTES TAG NUMBER

WIRING

CONTACT (NORMALLY OPEN) # DENOTES COIL NUMBER

WIRING

CONTACT (NORMALLY CLOSED) # DENOTES COIL NUMBER

WIRING

INDICATOR LIGHT - LETTER DENOTES COLOR

WIRING

PUSH-TO-TEST INDICATOR LIGHT LETTER DENOTES COLOR

WIRING

ELAPSED TIME METER

WIRING

SOLENOID VALVE

WIRING

MECHANICAL INTERLOCK CONNECTION

WIRING

COIL M DENOTES MOTOR STARTER CR DENOTES CONTROL RELAY TR DENOTES TIME DELAY RELAY LG DENOTES LIGHTING CONTACTOR PI DENOTES INTERPOSING PILOT RELAY XXX DENOTES REFERENCE LINE NUMBER

SINGLE LINE

EXISTING TO REMAIN

SINGLE LINE

EXISTING TO BE DEMOLISHED

SINGLE LINE

NEW

SINGLE LINE

FUTURE

SINGLE LINE

TX-STRUCTURE DESIGNATION XXX KVA 480-120/208V

SINGLE LINE

TRANSFORMER

SINGLE LINE

3P/4W TYPE OF TRANSFORMER

SINGLE LINE

PROTECTIVE RELAY, NUMBER DENOTES IEEE DEVICE FUNCTION

SINGLE LINE

MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER

SINGLE LINE

FUSE

SINGLE LINE

DRAWOUT POWER CIRCUIT BREAKER

SINGLE LINE

MOLDED CASE CIRCUIT BREAKER

SINGLE LINE

THERMAL OVERLOAD RELAY

SINGLE LINE

GROUND

SINGLE LINE

CURRENT TRANSFORMER NUMBER DENOTES QUANTITY

SINGLE LINE

POTENTIAL TRANSFORMER NUMBER DENOTES QUANTITY

SINGLE LINE

DRAW-OUT ELEMENT

SINGLE LINE

AUTOMATIC OR MANUAL TRANSFER SWITCH

SINGLE LINE

MOTOR NUMBER DENOTES HORSEPOWER

SINGLE LINE

GENERATOR XX NUMBER DENOTES REQUIRED KW RATING AND VOLTAGE

SINGLE LINE

EQUIPMENT/DEVICE LOCATION SYMBOLS

SINGLE LINE

LOCATED AT MCC, COMBINATION STARTER, OR BYPASS STARTER

SINGLE LINE

LOCATED IN FIELD

SINGLE LINE

LOCATED AT DCU 1A REMOTE I/O RACK

SINGLE LINE

LOCATED AT VFD

SINGLE LINE

MISC PLAN VIEW SYMBOLS

SINGLE LINE

EQUIPMENT CONNECTION

SINGLE LINE

GROUND ROD

SINGLE LINE

INSTRUMENT TRANSMITTER

SINGLE LINE

COMMUNICATIONS

SINGLE LINE

TELEPHONE OR NETWORK DROP

SINGLE LINE

ETHERNET JACK

SINGLE LINE, CONT'D.

LINE REACTOR X% NUMBER DENOTES PERCENT IMPEDANCE

SINGLE LINE, CONT'D.

CAPACITOR

SINGLE LINE, CONT'D.

VOLTMETER AND SWITCH

SINGLE LINE, CONT'D.

SHUNT TRIP

SINGLE LINE, CONT'D.

TRANSIENT VOLTAGE SURGE SUPPRESSOR

SINGLE LINE, CONT'D.

LIGHTNING ARRESTOR

SINGLE LINE, CONT'D.

KIRK-KEY INTERLOCK

SINGLE LINE, CONT'D.

COMBINATION POWER UNIT

SINGLE LINE, CONT'D.

VARIABLE FREQUENCY DRIVE X% NUMBER DENOTES LINE REACTOR PERCENT IMPEDANCE

SINGLE LINE, CONT'D.

SITE DUCTBANKS

SINGLE LINE, CONT'D.

UNDERGROUND CONTROL

SINGLE LINE, CONT'D.

UNDERGROUND ELECTRICAL

SINGLE LINE, CONT'D.

UNDERGROUND FIBER

ABBREVIATIONS

A AMPERE(S)

AE ANALYTICAL SENSOR

AFF ABOVE FINISHED FLOOR

AHU AIR HANDLING UNIT

AIT ANALYTICAL INDICATOR TRANSMITTER

AM AMMETER

AMP AMPERE(S)

ATS AUTOMATIC TRANSFER SWITCH

AWG AMERICAN WIRE GAUGE

BKR BREAKER

BLDG BUILDING

C CONDUIT

CB CIRCUIT BREAKER

CR CORROSION RESISTANT

CU COPPER

DISC DISCONNECT

EF EXHAUST FAN

ELEV ELEVATION

EMT ELECTRICAL METALLIC TUBING

EQUIP EQUIPMENT

EWC ELECTRICAL WATER COOLER

EXP EXPLOSION PROOF

F FUSED OR FUSE

FE FLOW SENSOR

FIT FLOW INDICATOR TRANSMITTER

FLA FULL LOAD AMPS

G GROUND

GF GROUND FAULT

GFI GROUND FAULT INTERRUPTER

HOA HAND-OFF-AUTOMATIC

HOR HAND-OFF-REMOTE

HP HORSEPOWER

HPS HIGH PRESSURE SODIUM

JB JUNCTION BOX

KV KILOVOLTS

KVA KILOVOLTS AMPS

KVAR KILOVAR

KW KILOWATTS

LCP LOCAL CONTROL PANEL

LE LEVEL SENSOR

LIT LEVEL INDICATING TRANSMITTER

LOR LOCAL-OFF-REMOTE

LTG LIGHTING

MAU MAKEUP AIR UNIT

MCC MOTOR CONTROL CENTER

MH MANHOLE

MOL MOTOR OPERATED LOUVER

N NEUTRAL

N/A NOT APPLICABLE

N.C. NORMALLY CLOSED

NEC NATIONAL ELECTRICAL CODE

NF NON-FUSED

N.O. NORMALLY CLOSED

NTS NOT TO SCALE

OL OVERLOAD

PB PUSHBUTTON

PLC PROGRAMMABLE LOGIC CONTROLLER

PM POWER METER/MONITOR

PNL PANEL

RCPT RECEPTACLE

RGS RIGID GALVANIZED STEEL

R/S RING SWITCH

SF SUPPLY FAN

SHLD SHIELDED

SP SINGLE POLE

SPD SURGE PROTECTIVE DEVICE

SST STAINLESS STEEL

STR STARTER

SW SWITCH

SWBD SWITCHBOARD

SWGR SWITCHGEAR

TB TERMINAL BOX

TPS TWISTED PAIR SHIELDED

TYP TYPICAL

UGE UNDERGROUND ELECTRICAL

UGT UNDERGROUND SIGNAL

UH UNIT HEATER

UL UNDERWRITERS LABORATORIES

UNO UNLESS NOTED OTHERWISE

V VOLTS

VFD VARIABLE FREQUENCY DRIVE

VM VOLTMETER

VS VOLTMETER SWITCH

W WIRE/WATT

WH WATER HEATER

WP WEATHERPROOF

XFMR TRANSFORMER

GENERAL NOTES: WWTP

1. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL UNDERGROUND CONCRETE ENCASED ELECTRICAL CONDUITS SHALL BE INSTALLED PER STANDARD DETAIL 1611801.

2. UNLESS OTHERWISE SPECIFIED OR NOTED, ALL WALL MOUNTED ELECTRICAL PANELS, ENCLOSURES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED 6'-6" (MAX) FROM THE TOP OF THE PANEL TO FINISHED FLOOR OR GRADE.

3. UNLESS OTHERWISE NOTED, ALL LIGHTING SWITCHES, CONTROL SWITCHES, AND SIMILAR EQUIPMENT SHALL BE MOUNTED WITH THEIR CENTERLINE APPROXIMATELY 4'-0" ABOVE FINISHED FLOOR, SLAB, OR GRADE. THERMOSTATS SHALL BE MOUNTED 4'-4" ABOVE FINISHED FLOOR.

4. A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH CIRCUIT (SEPARATE CONDUCTOR IN THE CONDUIT). THE CONDUCTOR SHALL BE TERMINATED AT THE PROPER DEVICE, TERMINAL OR LUG AT THE POWER SOURCE (MCC GROUND BUS, PANELBOARD GROUND BUS, ETC.). GROUND CONDUCTOR SIZE SHALL BE PER THE LATEST EDITION OF THE NEC.

5. ELECTRICAL SYSTEMS INSTALLED IN HAZARDOUS LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 5, ART. 500 OF THE LATEST EDITION OF THE NEC. CONTRACTOR SHALL SEAL ALL CONDUITS LEAVING HAZARDOUS AREA. WALL AND FLOOR OPENINGS SHALL BE SEALED WITH FIREPROOF COMPOUND.

6. ALL EQUIPMENT LOCATED IN HAZARDOUS AREAS SHALL BE SUITABLE FOR THE CLASS, DIVISION, AND GROUP RATING OF THE LOCATION.

7. UNLESS SPECIFICALLY NOTED OTHERWISE, EXISTING PAVEMENT SHALL BE SAW CUT AND REMOVED TO ALLOW FOR THE INSTALLATION OF NEW ELECTRICAL DUCTBANKS. AFTER INSTALLATION, REPLACE PAVEMENT WITH NEW TO MATCH ORIGINAL CONDITIONS.

SCALE VERIFICATION

BAR IS ONE INCH LONG ON ORIGINAL DRAWING

DRAWN BY

JRH

CHECKED BY

BMS

APPROVED BY

WCM

ISSUE DATE

MAY 2018

PROJECT NUMBER

201417-04-01

NO.

DATE

INITIALS

REVISION DESCRIPTIONS

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WWTW IMPROVEMENTS

CITY OF SALEM SALEM, INDIANA

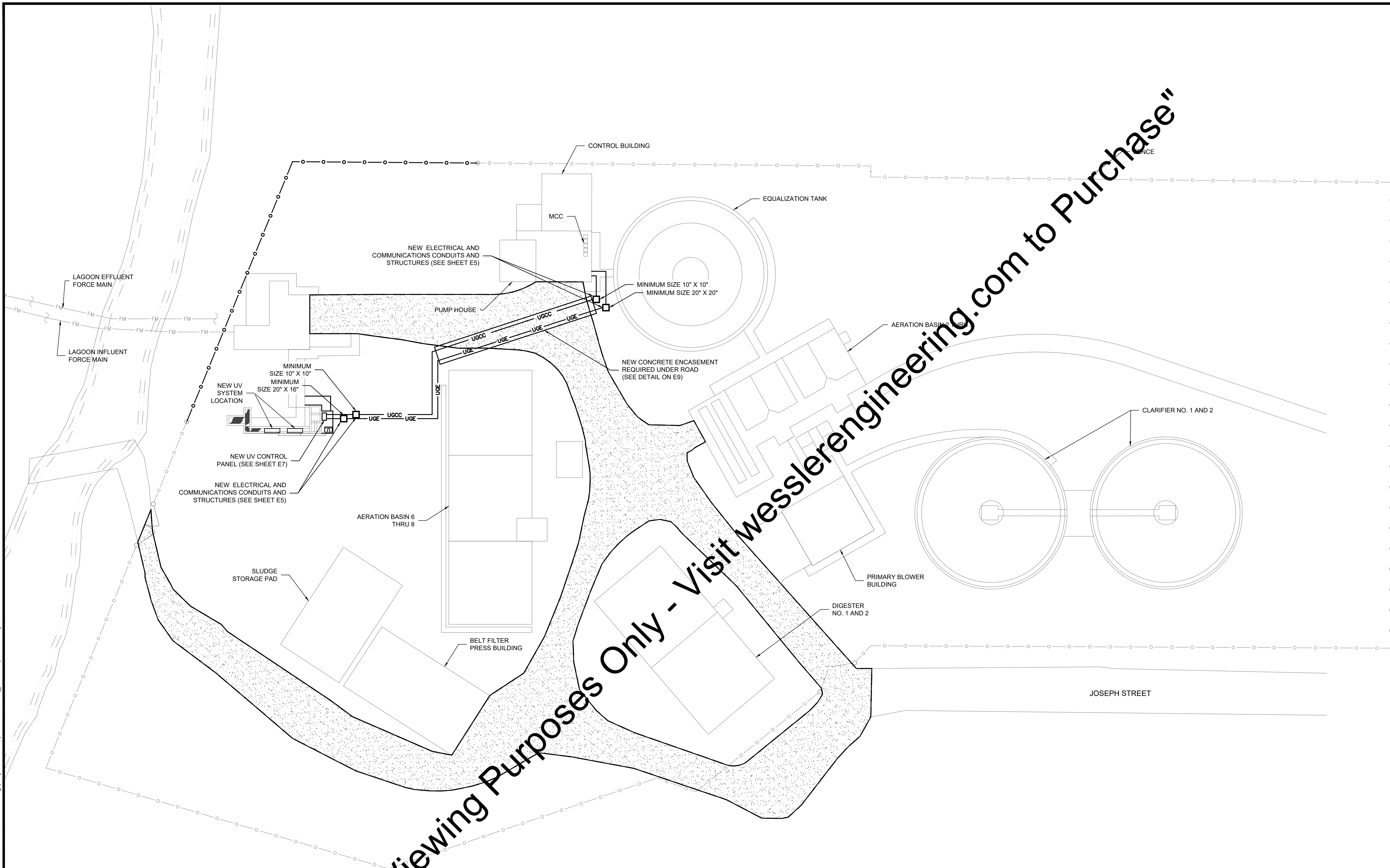
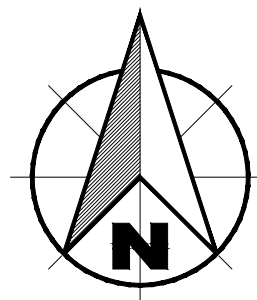
ELECTRICAL LEGEND

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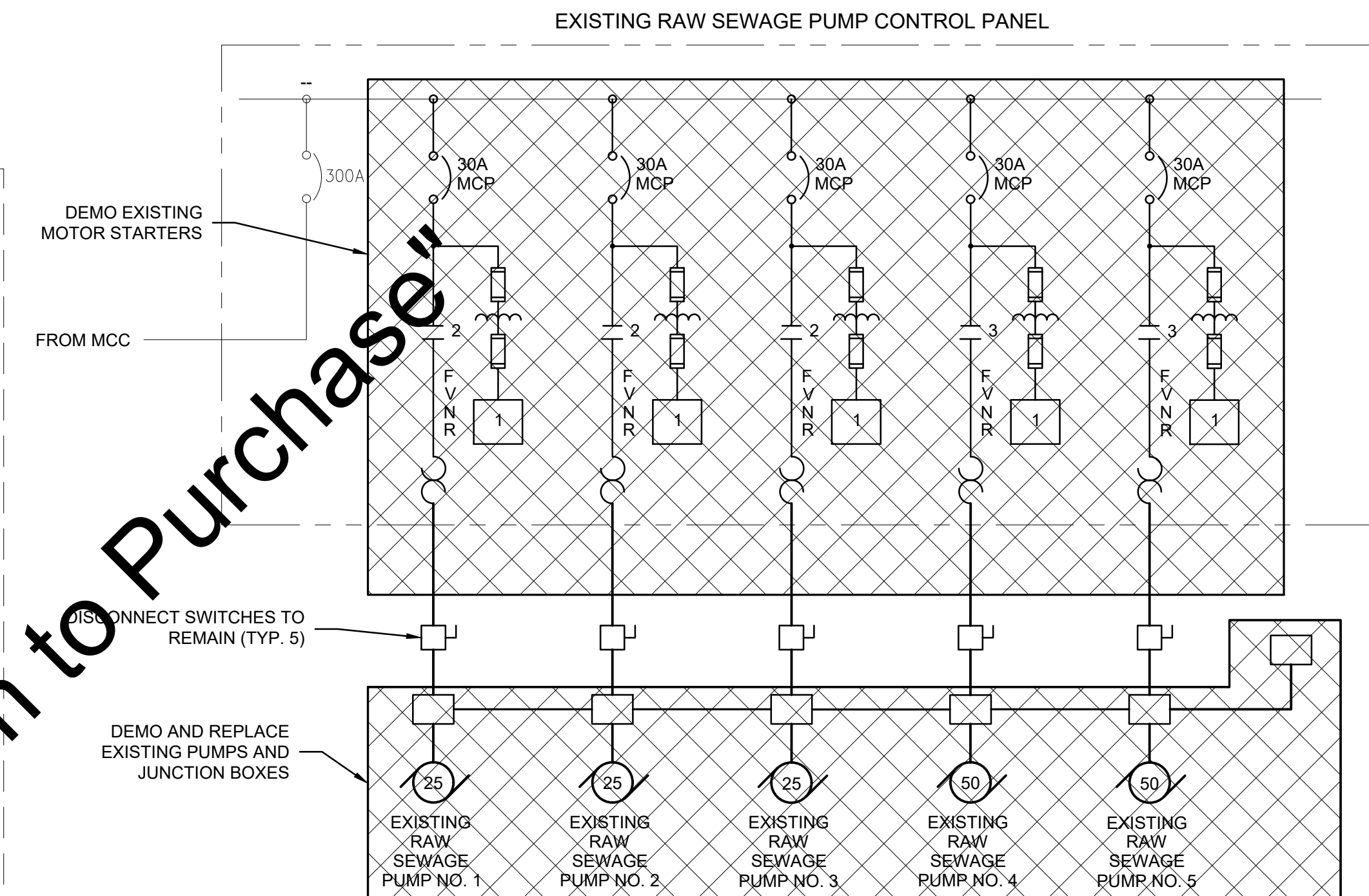
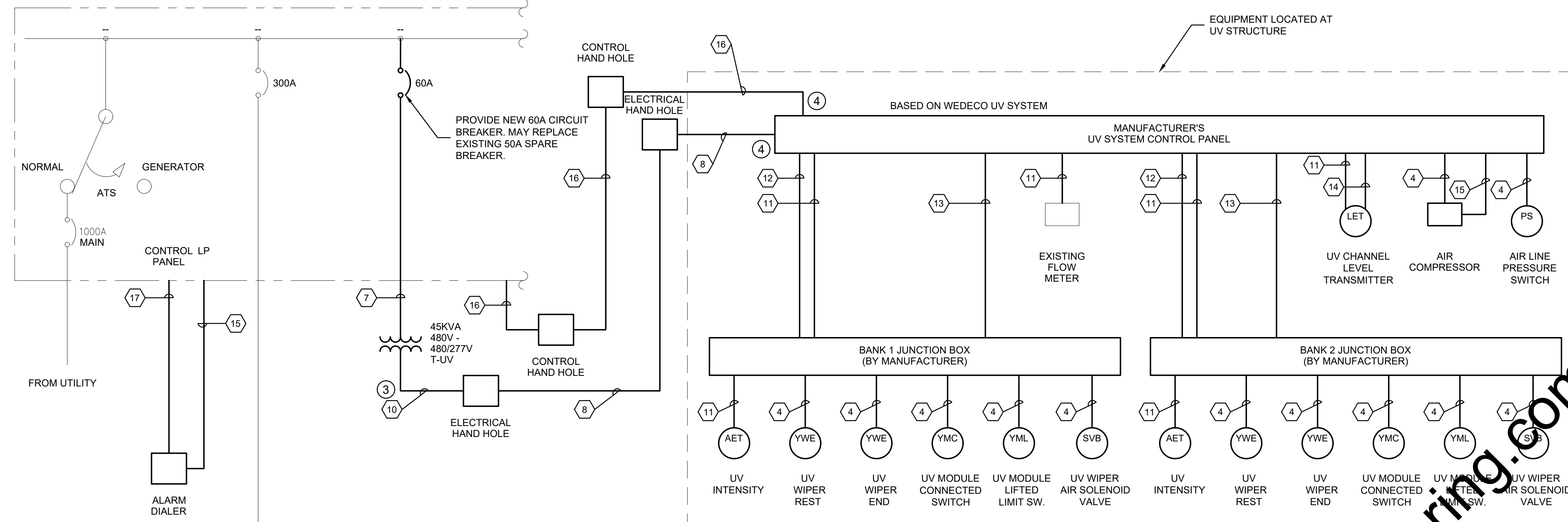
18



ELECTRICAL SITE PLAN

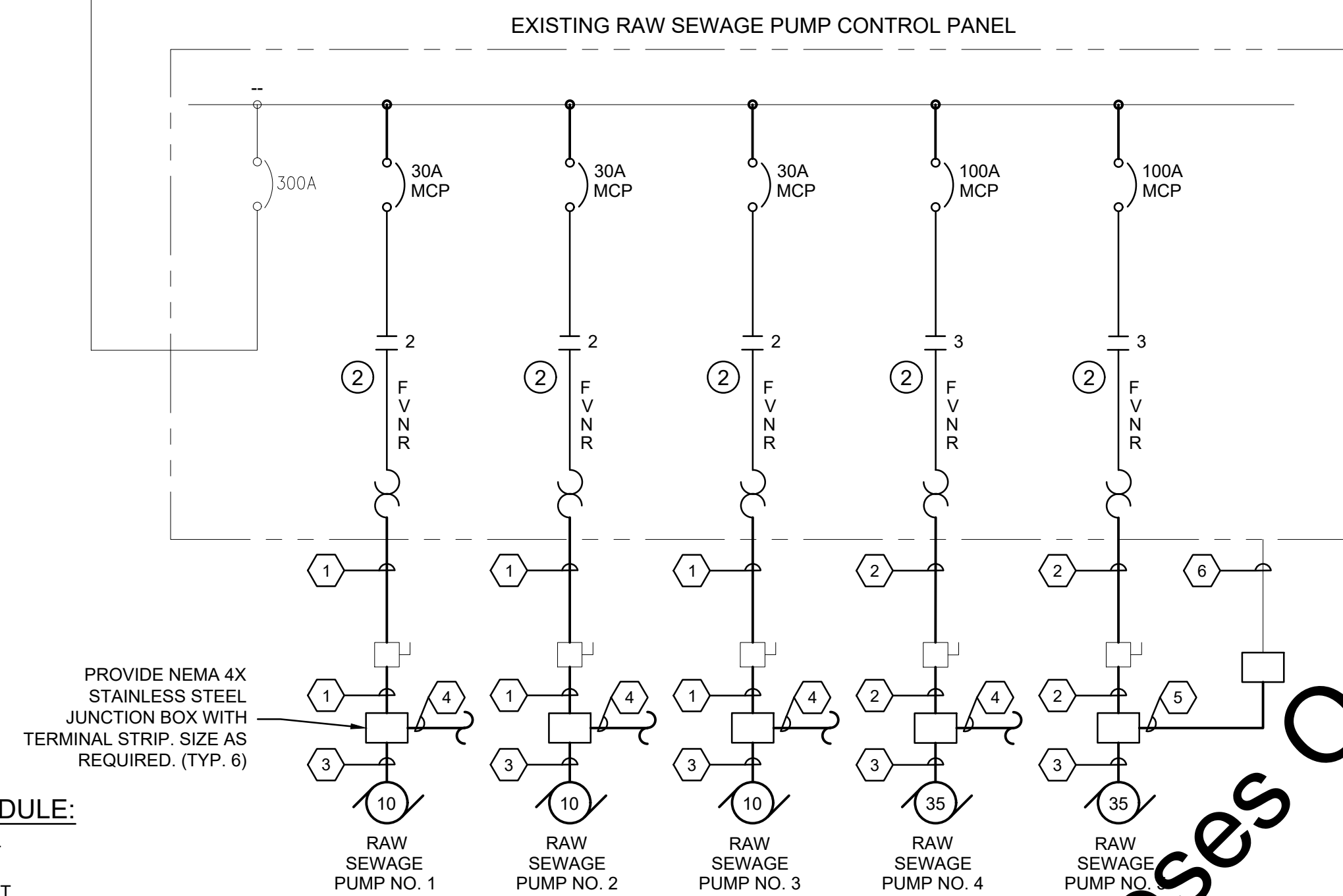
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	ISSUE DATE	MAY 2018				
	PROJECT NUMBER	201417-04-01				
WYATT C. MOORE REGISTERED No. 10707476 STATE OF INDIANA PROFESSIONAL ENGINEER 04/02/2018 W WESSLER ENGINEERING More than a Project™						
WWTP IMPROVEMENTS CITY OF SALEM SALEM, INDIANA ELECTRICAL SITE PLAN						
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PAGE NO. 19						

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RAW SEWAGE PUMP CONTROL PANEL DEMO

SCALE: NON



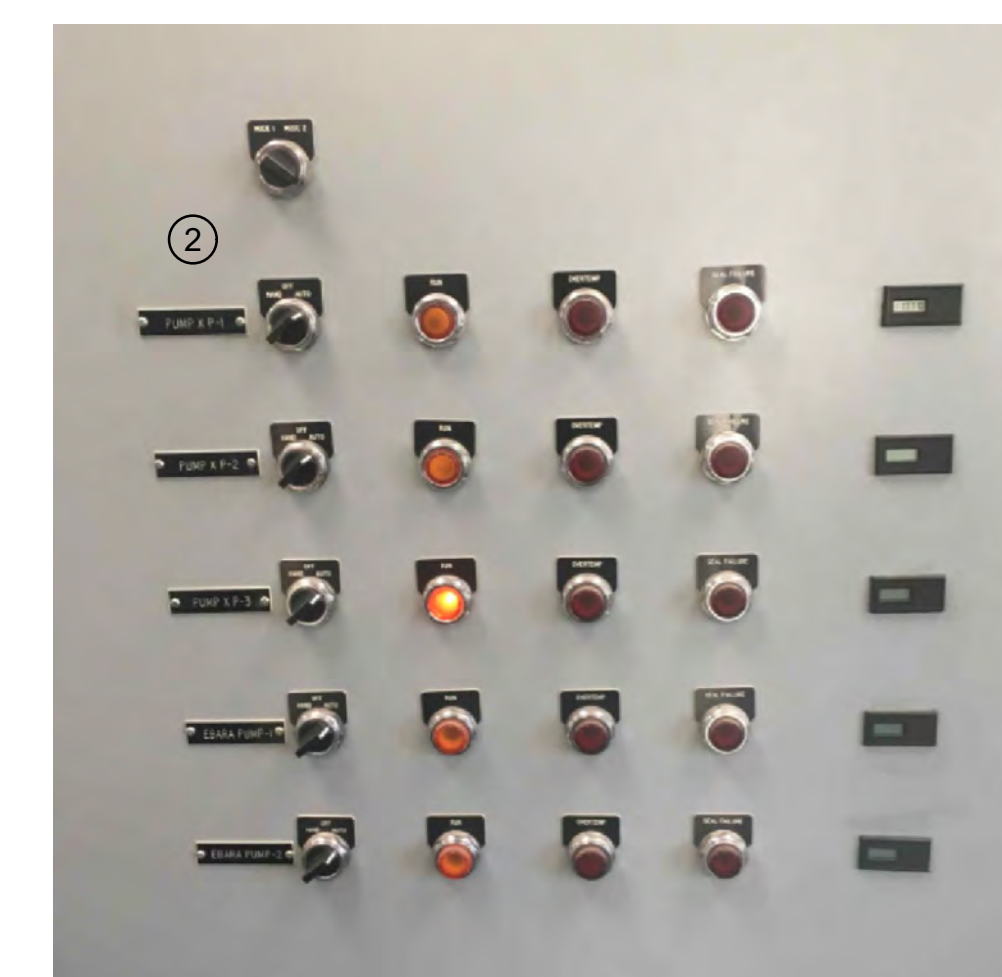
EXISTING RAW SEWAGE PUMP DISCONNECTS AND JUNCTION BOXES

SCALE: NONE



EXISTING RAW SEWAGE PUMP DISTRIBUTION CONDUITS

SCALE: NO



EXISTING RAW SEWAGE PUMP CONTROL PANEL INTERFACE

SCALE: NON

CONDUIT & WIRE SCHEDULE:

- | | |
|----|--|
| 1 | 3#10, #10G, EXISTING CONDUIT |
| 2 | 3#6, #2, #6G, EXISTING CONDUIT |
| 3 | MANUFACTURER CABLE |
| 4 | 2#14, #14G, 3/4" C |
| 5 | 10#14, 5#14G, 1" C |
| 6 | 10#14, 5#14G, 4#14 SPARES, EXISTING CONDUIT |
| 7 | 2" C, 3#6, #10G |
| 8 | (2" C, 3#6, #6N, #10G), 2 - 2" C SPARE |
| 9 | 1" C, 3#12, #12G |
| 10 | (2" C, 3#6, #6N, #10G), 4 - 2" C SPARE |
| 11 | 3/4" C, 2/C#16TPS |
| 12 | 1" C, 10#14, 5#14G |
| 13 | (3" C, MANUFACTURER PROVIDED CABLE), (3" C, SPARE) |
| 14 | 3/4" C, 4#14, #14G |
| 15 | 1" C, 2#12, #12G |
| 16 | (1" C, 10#14), (1" C, 2 - 2/C#16TPS) (2 - 1" C, SPARE) |
| 17 | 2" C, 60#14 |

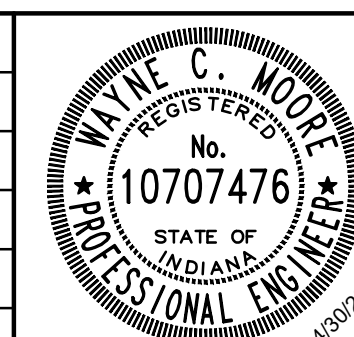
MODIFIED RAW SEWAGE PUMP CONTROL PANEL

SCALE: NONE

ELECTRICAL KEYED NOTES:

- ① REPLACE CONDUIT OUTLET BOXES AS REQUIRED.
- ② RECONNECT EXISTING LIGHTS AND SWITCHES MOUNTED TO RAW SEWAGE PUMP CONTROL PANEL. THIS CONSIDERATION IS NOT LIMITED TO, H-O-A SWITCHES, RUNNING LIGHTS, OVERTEMP LIGHT, SEAL FAILURE LIGHT, AND ETC. OVERTEMP/SEAL FAILURE DETECTORS SHALL BE MOUNTED IN THE RAW SEWAGE PUMP CONTROL PANEL. OVERTEMP/SEAL SHALL BE WIRED TO EXISTING ALARM LIGHTS. OBTAIN PVAC FROM EXISTING RAW SEWAGE PUMP CONTROL PANEL.
- ③ SPARE CONDUITS SHALL BE STUBBED OUT AND CAPPED ABOVE TRANSFORMER INSIDE OF CONTROL BUILDING.
- ④ STUB UP AND CAP OFF SPARE CONDUITS 6 INCHES ABOVE GRADE.

SCALE VERIFICATION	DRAWN BY	JRH	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	BMS				
	APPROVED BY	WCM				
	ISSUE DATE					
	MAY 2018					
	PROJECT NUMBER					
	201417-04-01					



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WWTP IMPROVEMENTS

CITY OF SALEM
SALEM, INDIANA

SALEM, INDIANA

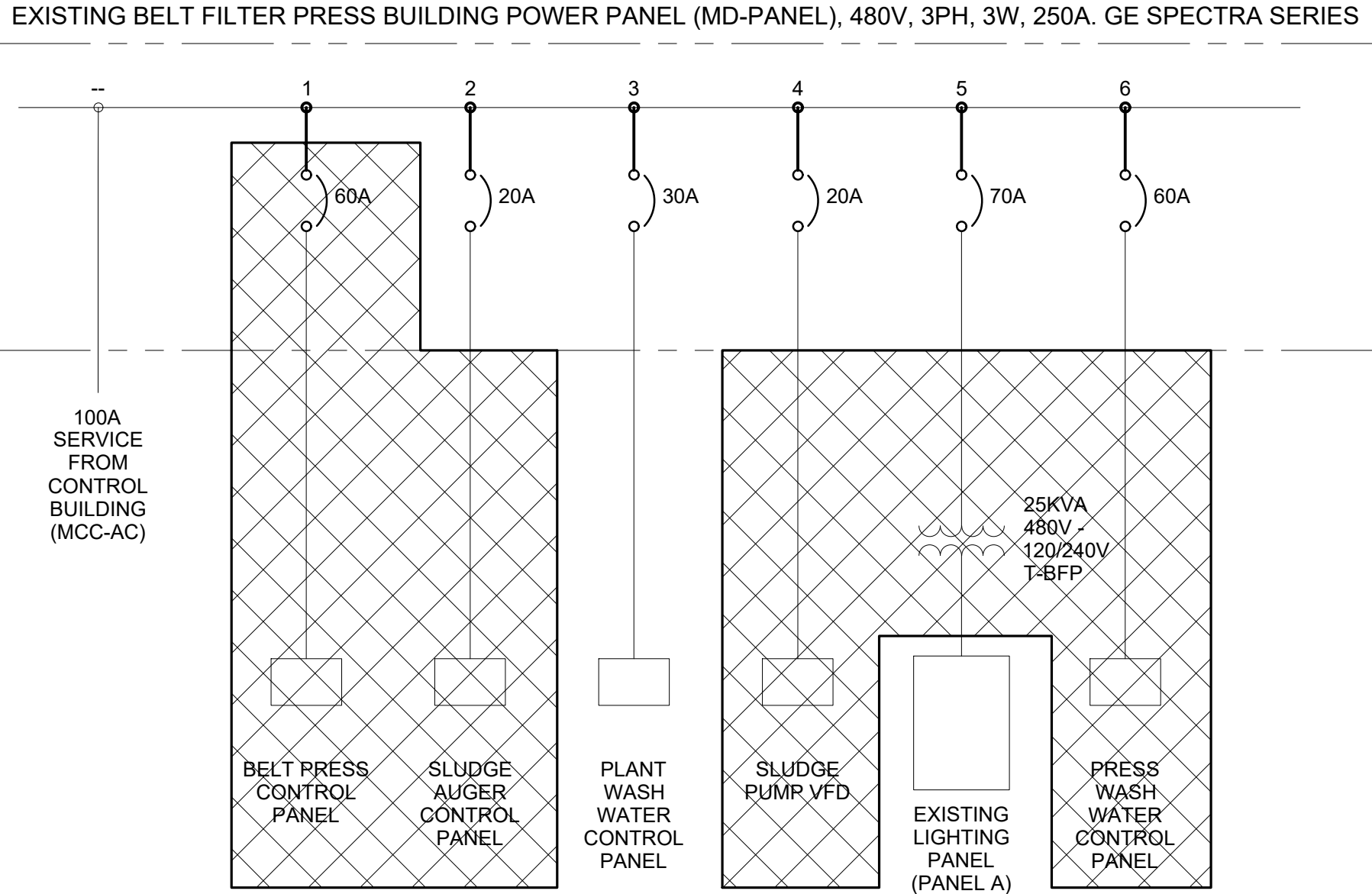
RAW SEWAGE AND UV ONE-LINES-DETAILS

SHEET NO.

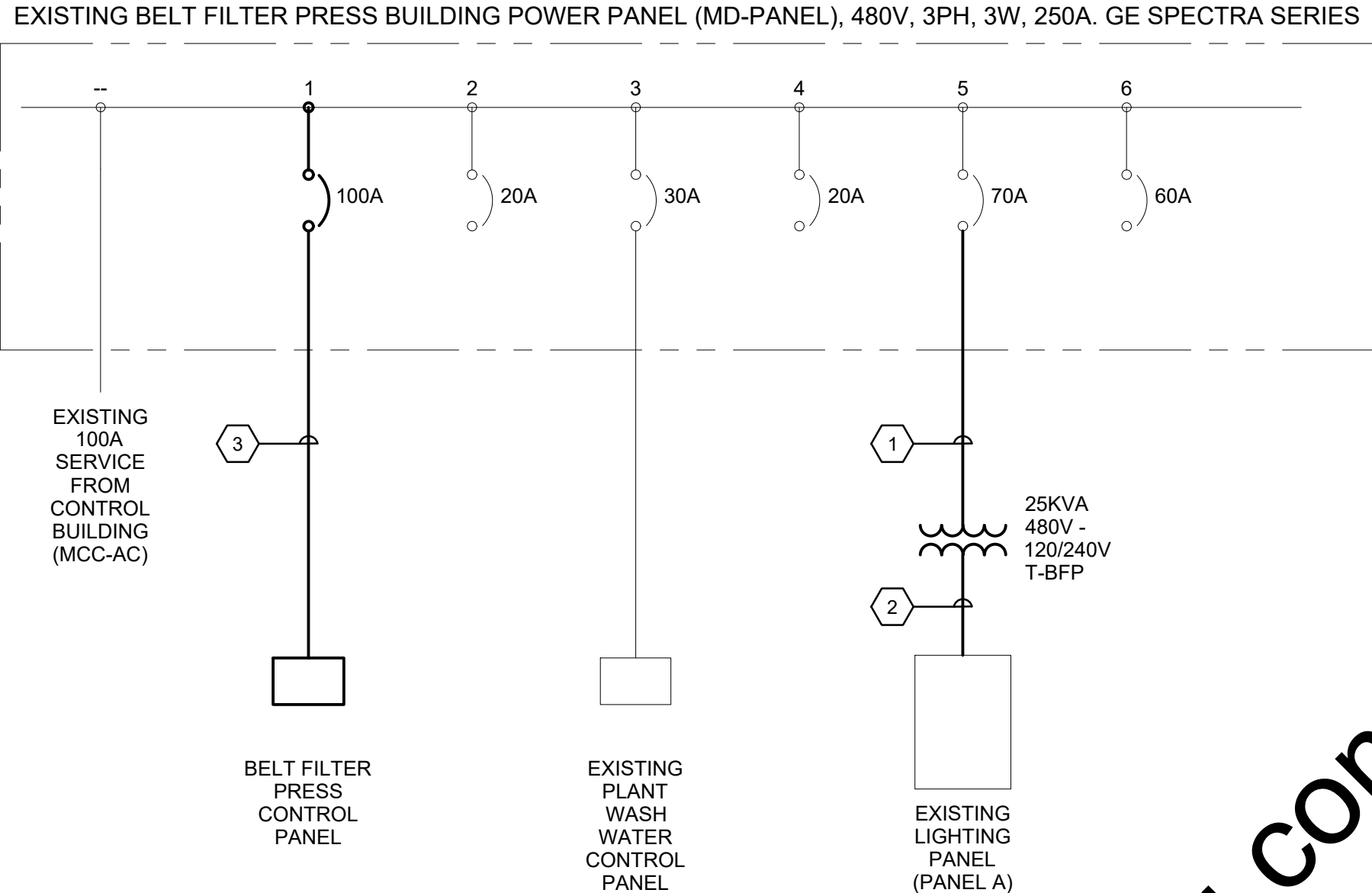
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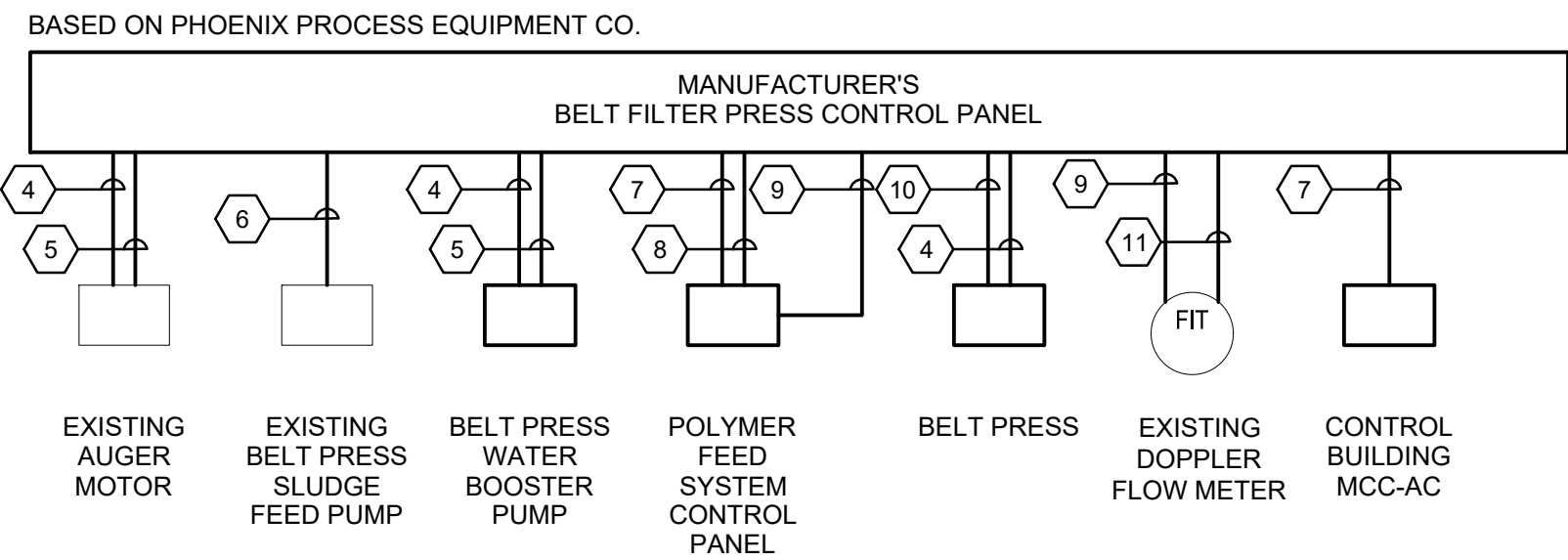
EXISTING POWER PANEL ONE-LINE DIAGRAM
DEMO
SCALE: NONE



MODIFIED POWER PANEL ONE-LINE DIAGRAM
SCALE: NONE



EX BELT PRESS CONTROL PANEL



CONTROL ONE-LINE DIAGRAM
SCALE: NONE

CONDUIT & WIRE SCHEDULE:

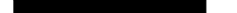
- | | |
|----|------------------------------|
| 1 | 2" C, 2#6, #10G |
| 2 | 2" C, 2#2, #2N, #8G |
| 3 | 3" C, 3#2, #8G |
| 4 | 1" C, 3#12, #12G |
| 5 | 3/4" C, 2#14, #14G |
| 6 | 1" C, 3#12, #12G (VFD CABLE) |
| 7 | 3/4" C, 8#14 |
| 8 | 3/4" C, 2 - 2/C#16TPS |
| 9 | 3/4" C, 2#12, #12G |
| 10 | 3/4" C, 20#14 |
| 11 | 3/4" C, 2/C#16TPS |



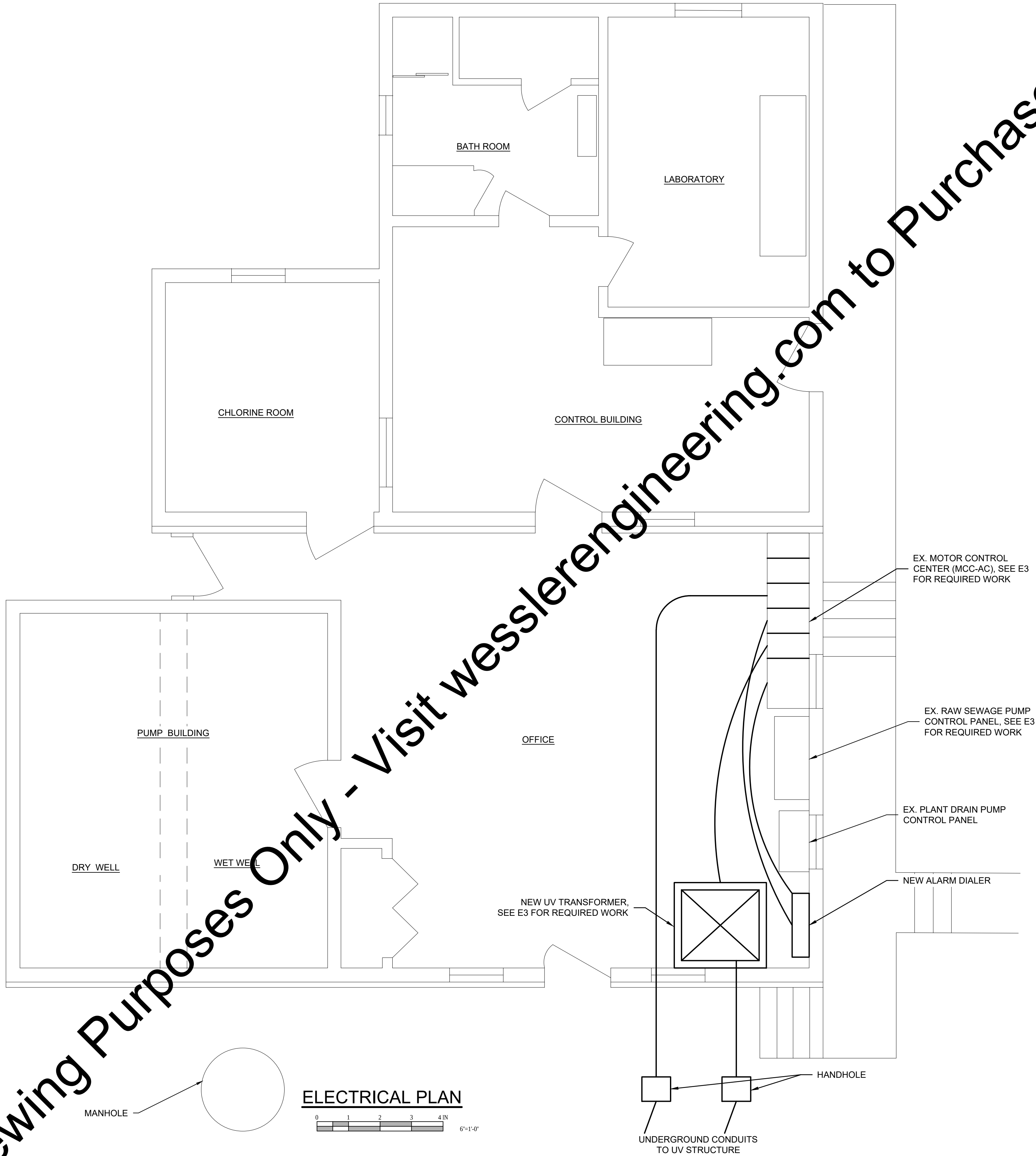
EX POWER PANEL, PLANT WASH
CONTROL PANEL, TRANSFORMER AND
LIGHTING PANEL



EX AUGER CONTROL PANEL, EX BELT
PRESS POWER JUNCTION BOX, AND
SLUDGE PUMP VFD

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CONTROL BUILDING POWER PLAN						

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E 5

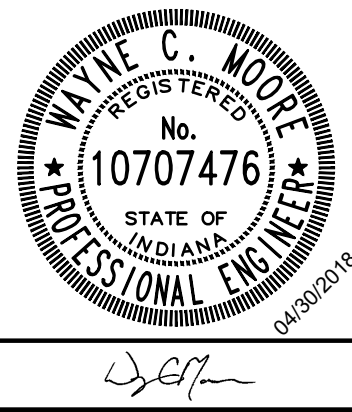
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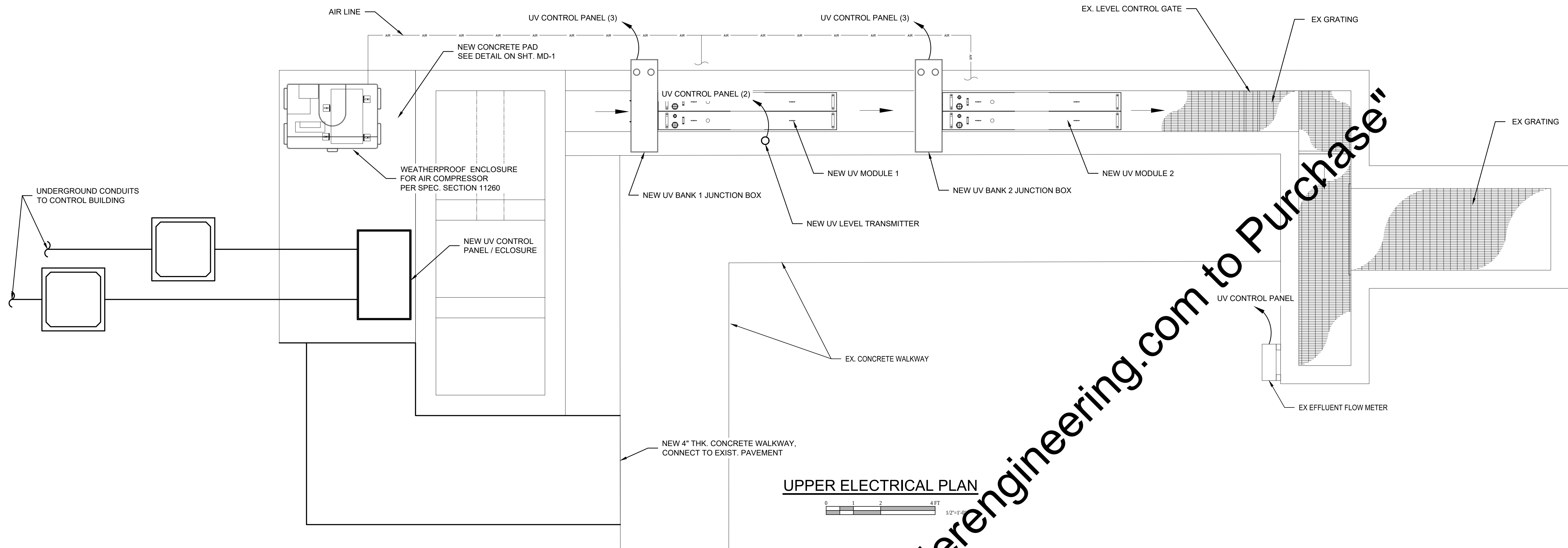
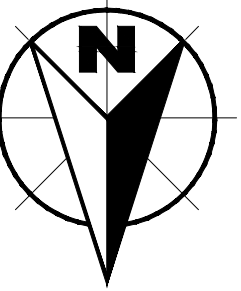


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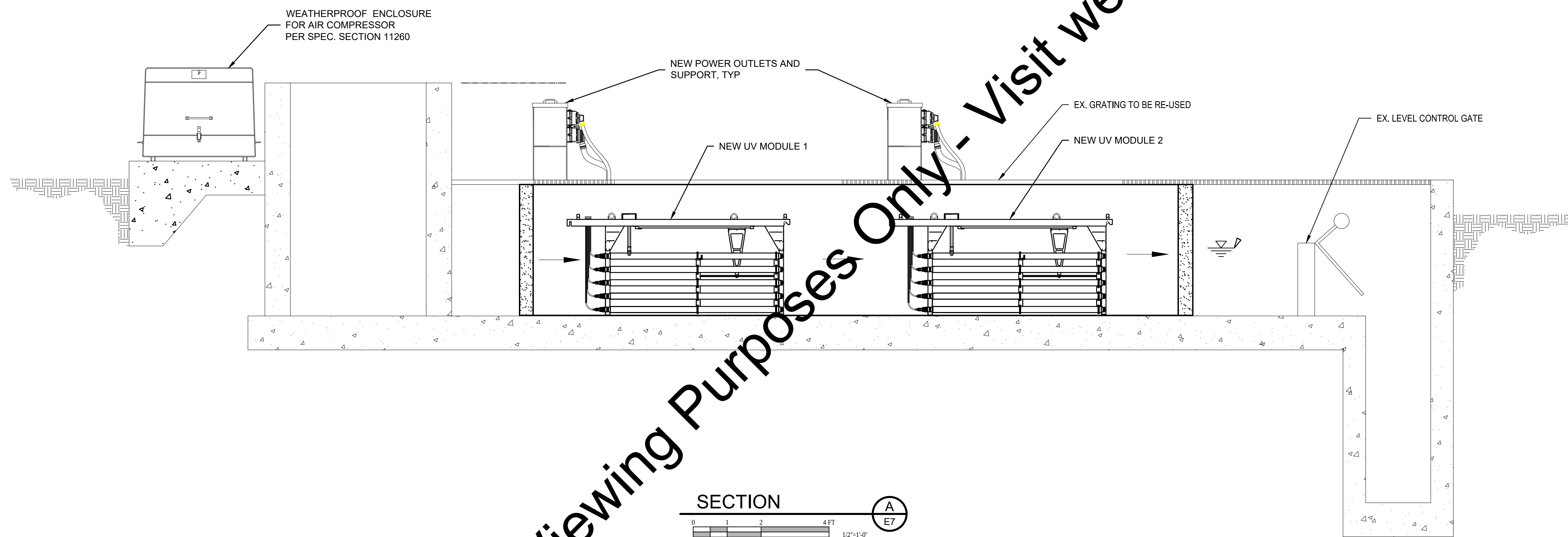
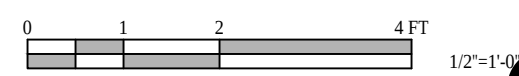
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RAW SEWAGE PUMP STATION POWER PLAN	



UPPER ELECTRICAL PLAN

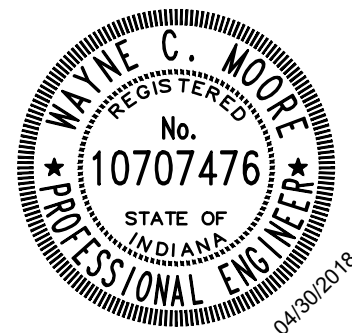


GENERAL NOTES:

1. SEE E3 FOR CONDUIT AND WIRE REQUIREMENTS.
2. ELECTRICAL SYSTEM IS BASED ON WEDCO UV SYSTEM.

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UV STRUCTURE ELECTRICAL MODIFICATIONS

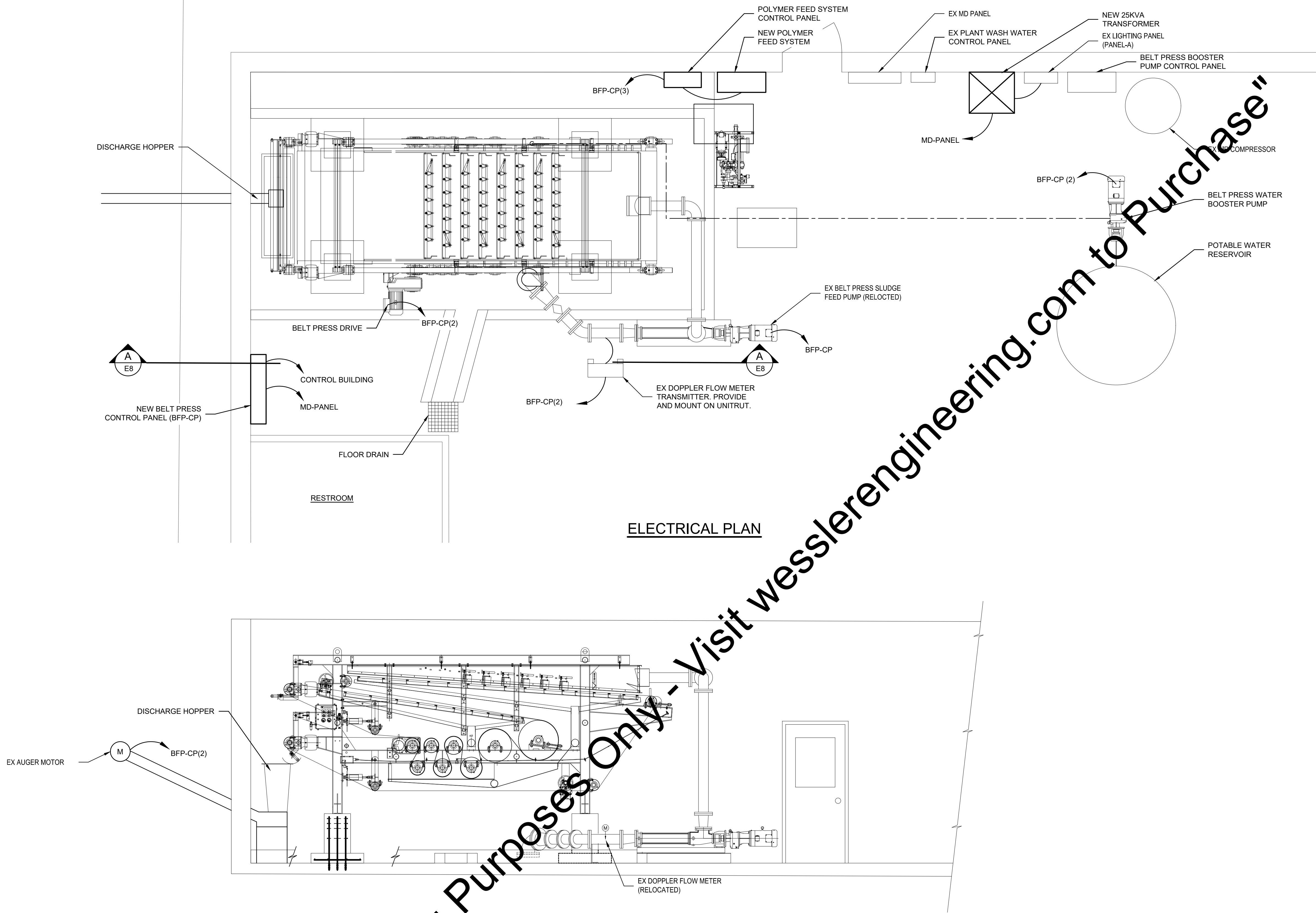
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E 7

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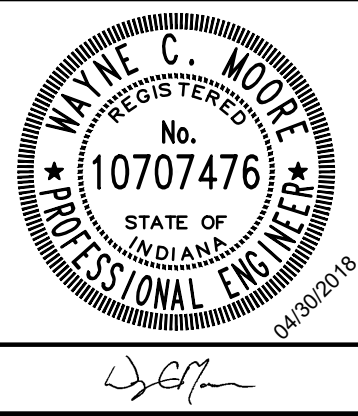


ELECTRICAL PLAN

GENERAL NOTES:

- SEE E4 FOR CONDUIT AND WIRE REQUIREMENTS.
- ELECTRICAL SYSTEM IS BASED ON A PHOENIX PROCESS EQUIPMENT CO. BELT PRESS.

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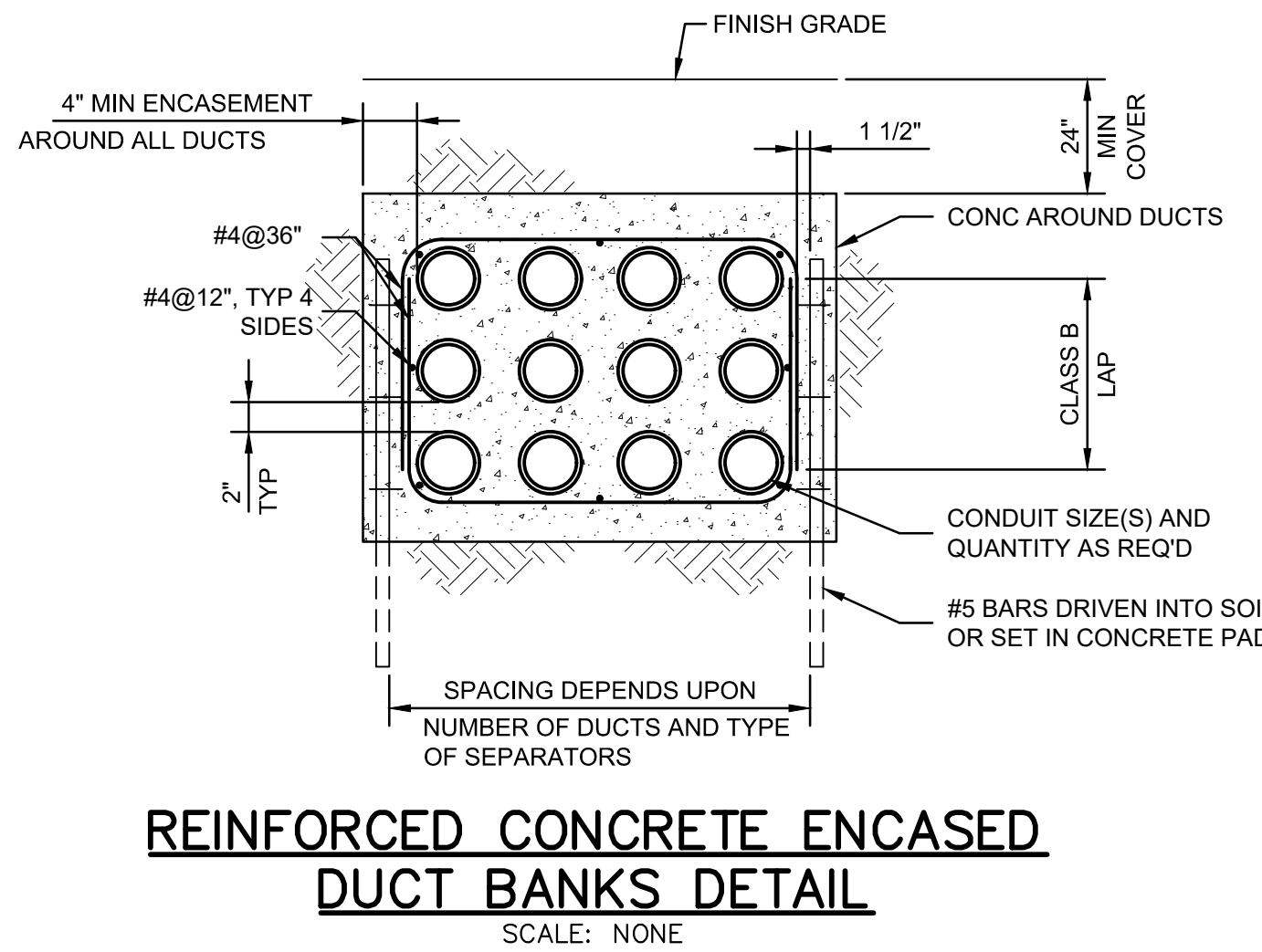
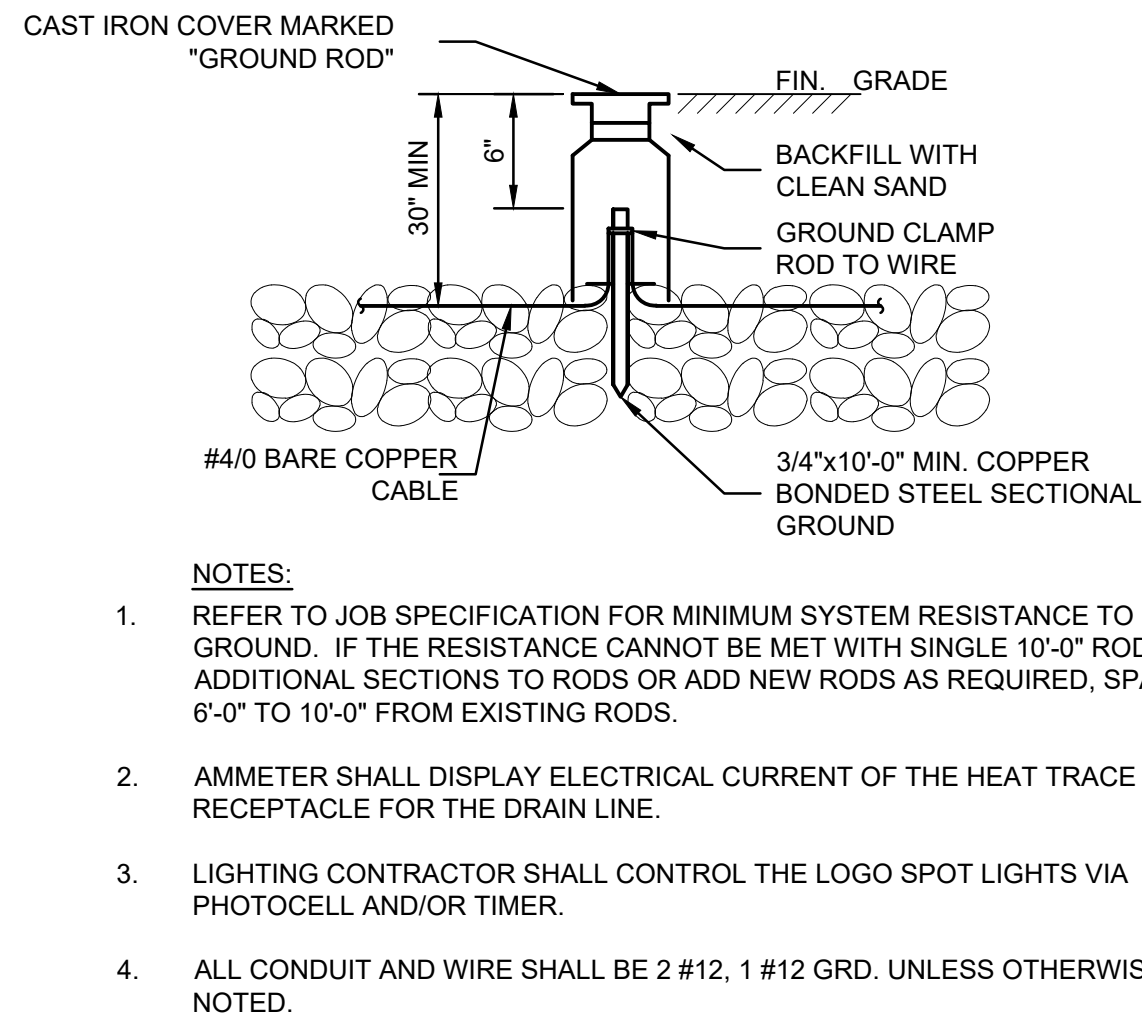
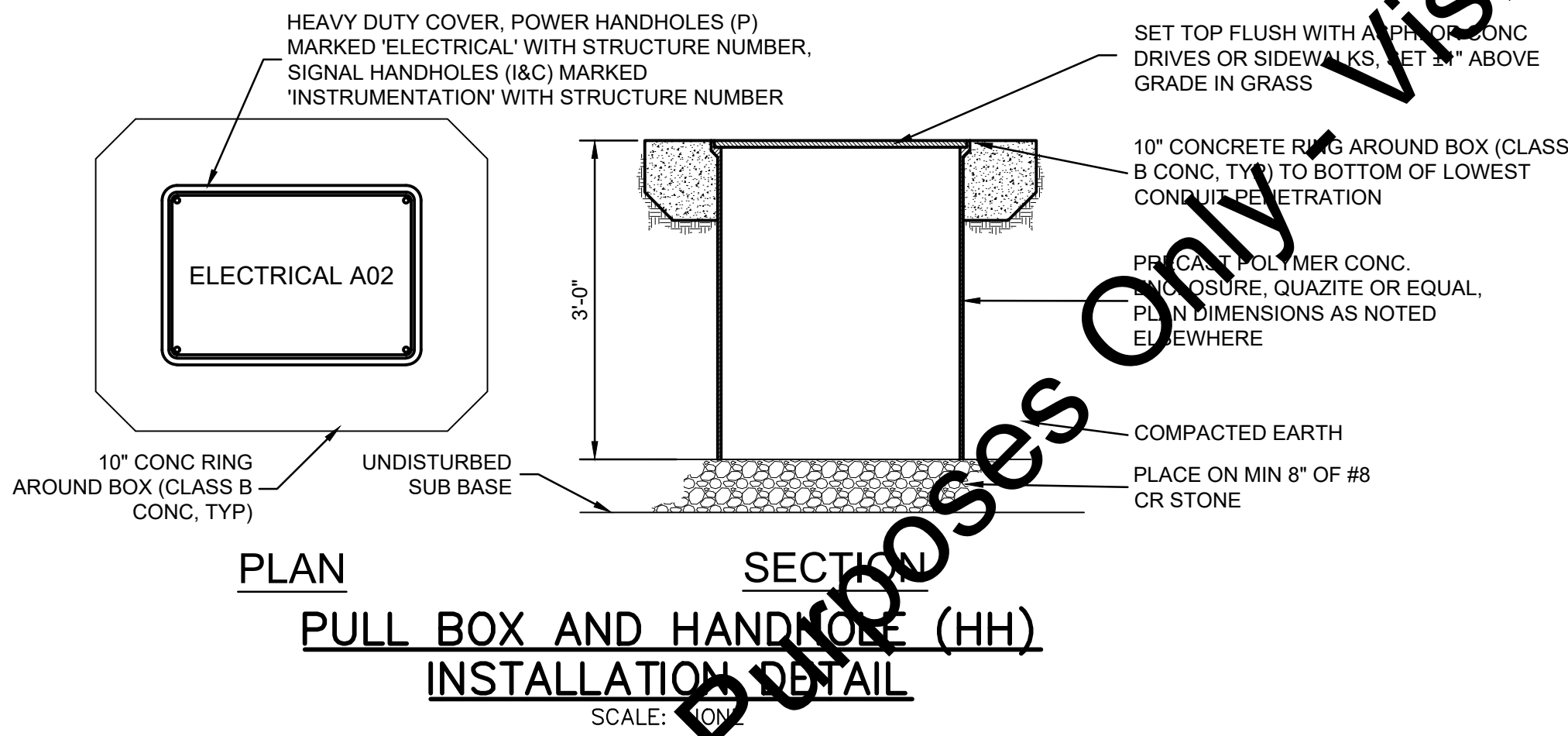
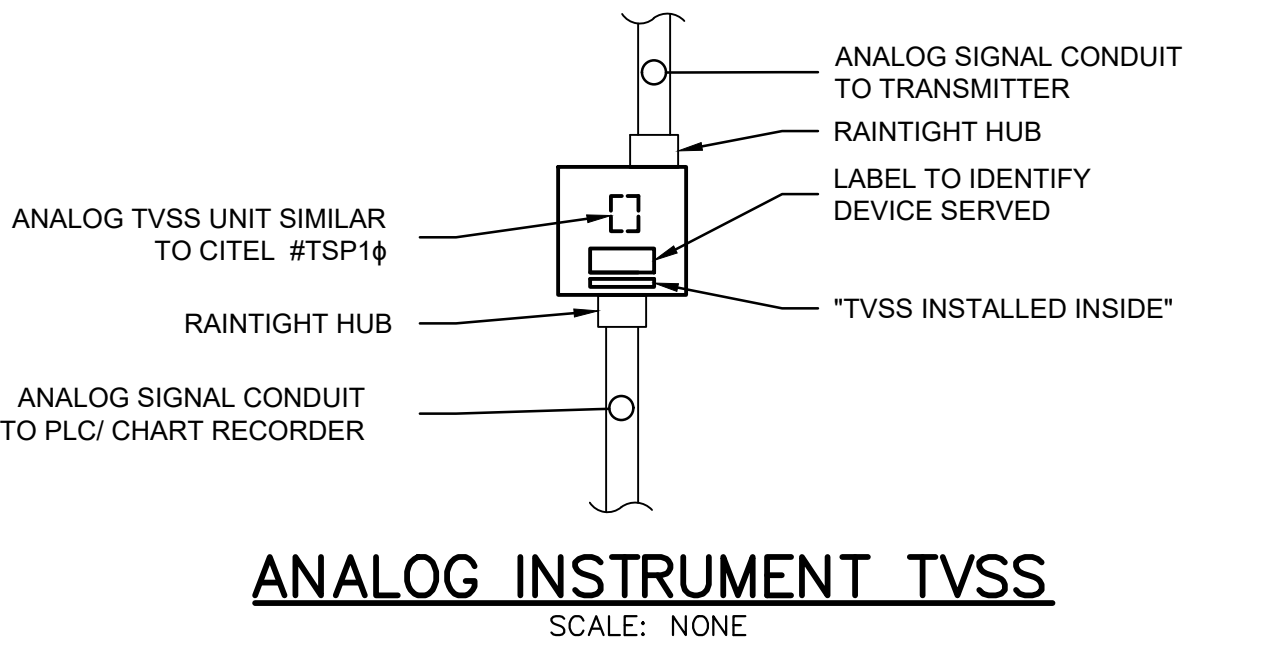
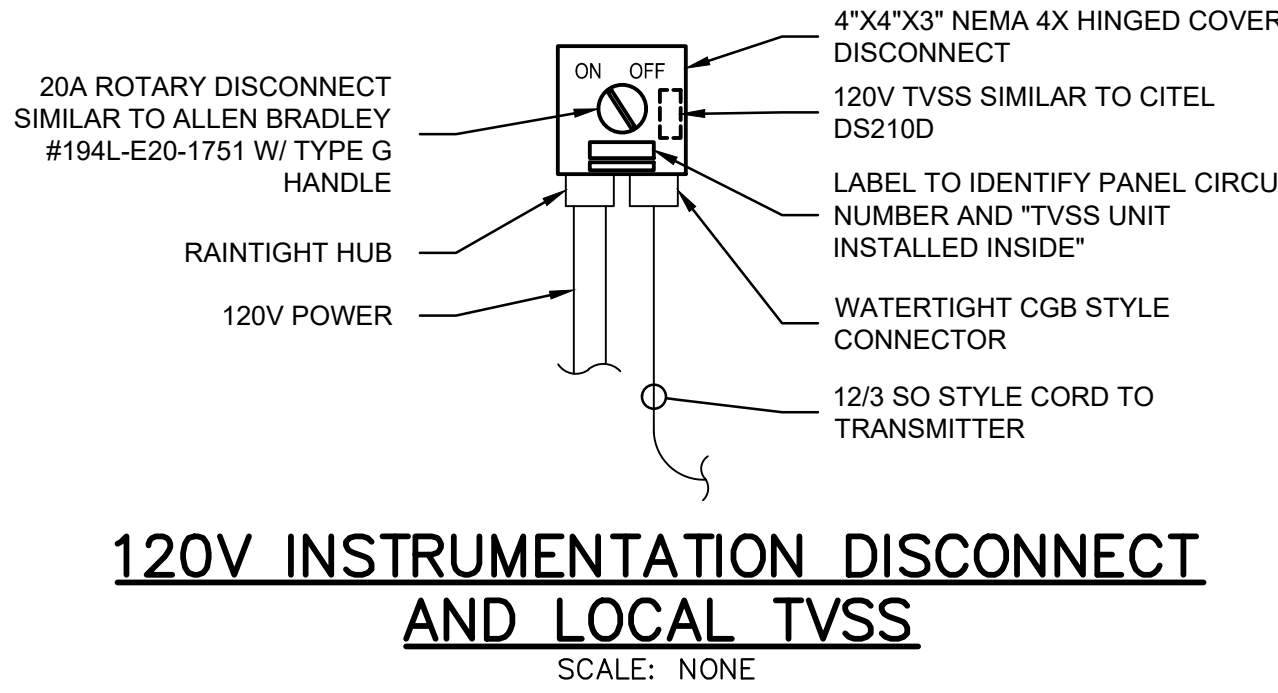
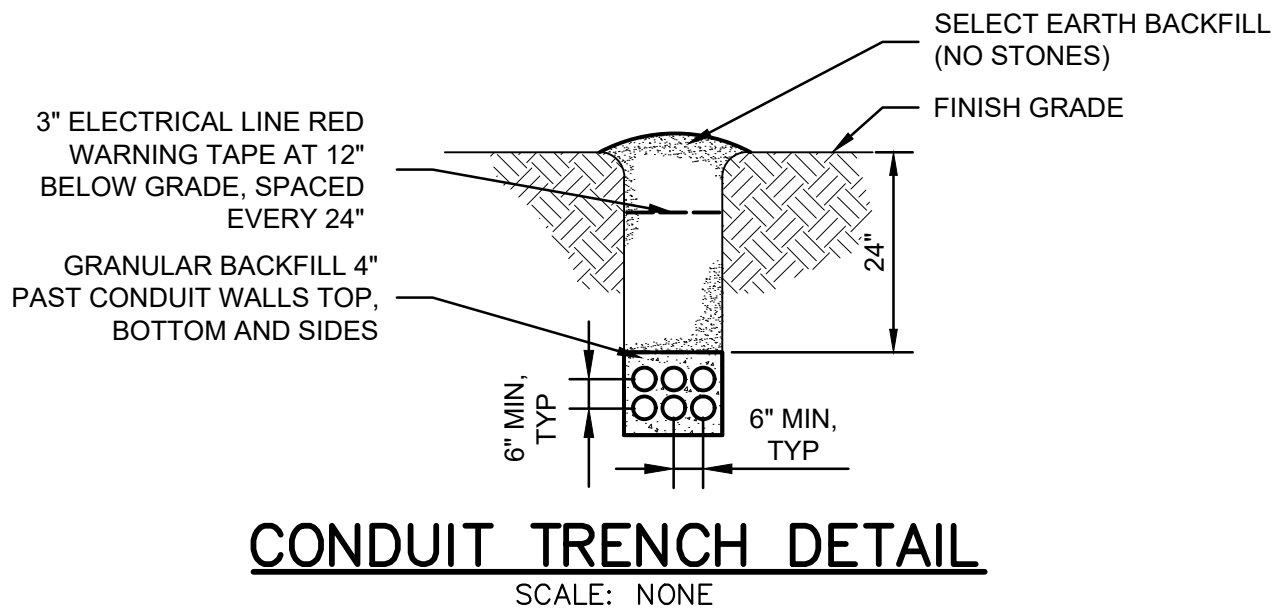
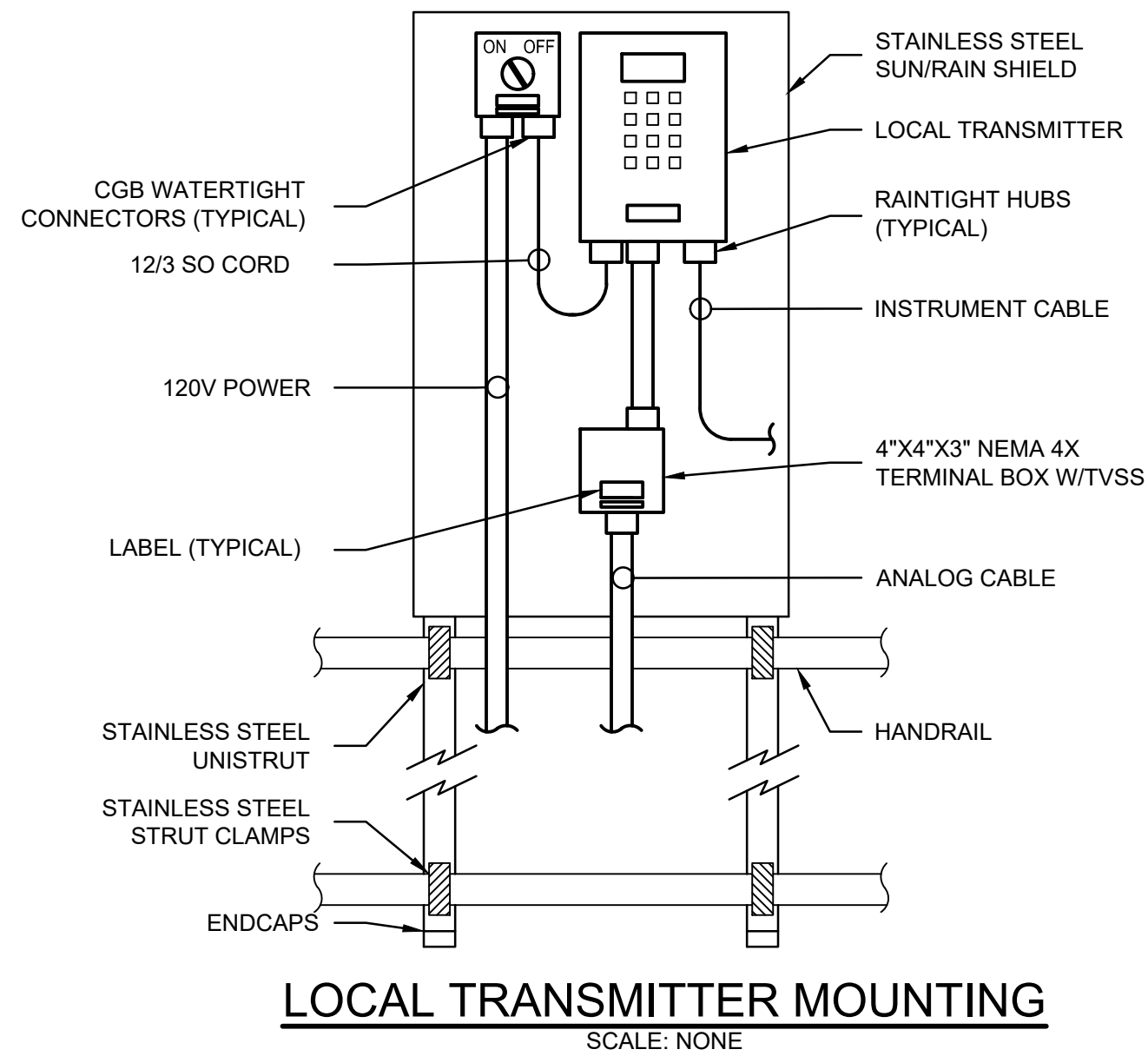


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BELT PRESS BUILDING - ELECTRICAL PLAN

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SOUTHWAY VILLA LIFT STATION ELECTRICAL PLAN

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