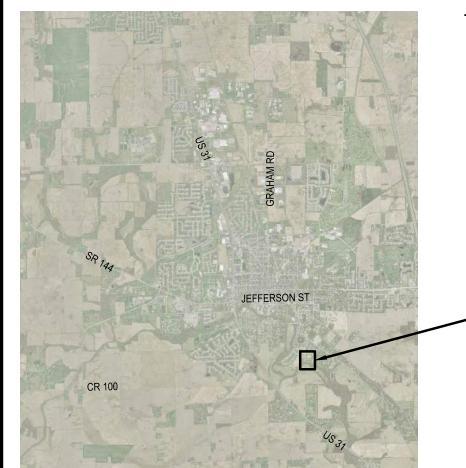
### WASTEWATER TREATMENT PLANT EXPANSION

FOR THE

## CITY OF FRANKLIN, INDIANA

VOLUME 2



FRANKLIN, IN

FRANKLIN, IN
VICINITY MAP
SCALE: NONE



STATE LOCATION MAP

SCALE: NONE

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More than a Project™

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6219 South East Street
Indianapolis, Indiana 46227
Phone: (317) 788-4551 - Fax: (317) 788-4553
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PROJECT NO. 263023-04-001

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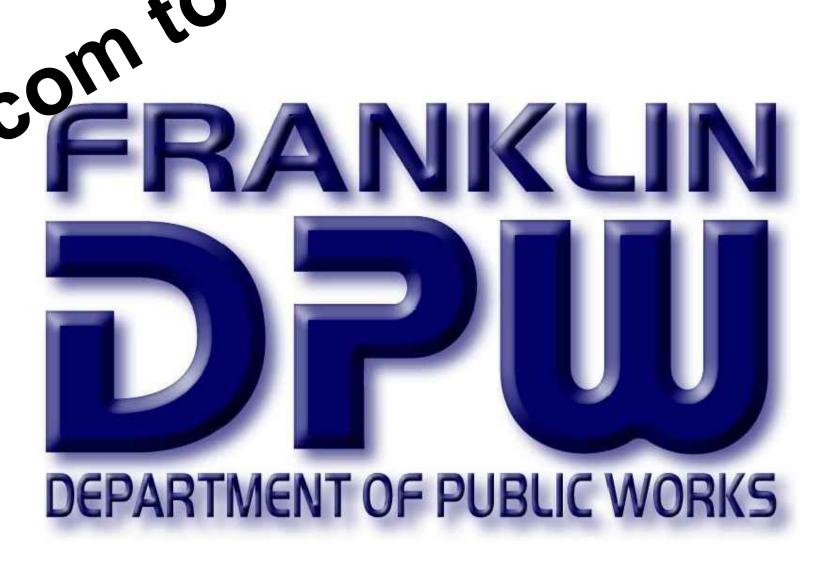
**MEMBER** 

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CITY ENGINEER

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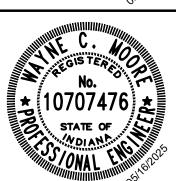
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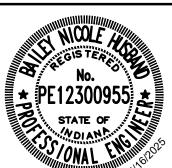
Bridget R clagram

BRIDGET R. INGRAM REGISTERED ENGINEER STATE OF INDIANA NO. 12000728



Soffen

WAYNE C. MOORE REGISTERED ENGINEER STATE OF INDIANA NO. 10707476 COVERING ELECTRICAL DESIGN



Bailey Husband

BAILEY N. HUSBAND REGISTERED ENGINEER STATE OF INDIANA NO. 12300955 COVERING INSTRUMENTATION/CONTROLS DESIGN



Gellare

JAKOB C. BRUHL REGISTERED ENGINEER STATE OF INDIANA NO. 12300914 COVERING STRUCTURAL DESIGN

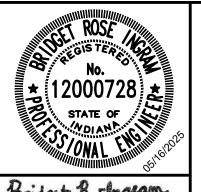
**MAY 2025** 

SHEET TYPE DEFINITIONS: G - GENERAL D - DEMOLITION A - ARCHITECTURAL C - CIVIL/PROCESS S - STRUCTURAL M - HEATING, VENTILATION AND AIR CONDITIONING P - PLUMBING E - ELECTRICAL - INSTRUMENTATION AND CONTROL Y - SITE 1 1G1-2 TITLE SHEET - VOLUME 2 2 1G2-2 DRAWING INDEX - VOLUME 2 Area 12 - EXISTING BIOFILTER / SLUDGE HOLDING TANK No. 1 12D1 EXISTING BIOFILTER - LOWER LEVEL DEMOLITION PLAN 12D2 EXISTING BIOFILTER - UPPER LEVEL DEMOLITION PLAN 12D3 EXISTING BIOFILTER - DEMOLITION SECTION 12C1 SLUDGE HOLDING TANK No. 1 - LOWER LEVEL MODIFICATION PLAN 12C2 SLUDGE HOLDING TANK No. 1 - UPPER LEVEL MODIFICATION PLAN 12C3 SLUDGE HOLDING TANK No. 1 - MODIFICATION SECTION 12C4 SLUDGE HOLDING TANK No. 1 - MODIFICATION SECTION 10 12C5 SLUDGE HOLDING TANK No. 1 - PIPING MODIFICATION PLAN 11 12E1 POWER MODIFICATION PLAN Area 13 - EXISTING ATAD / SLUDGE HOLDING TANK No. 2 12 13D1 EXISTING ATAD BUILDING - LOWER LEVEL DEMOLITION PLAN 13D2 EXISTING ATAD BUILDING - UPPER LEVEL DEMOLITION PLAN 13D3 EXISTING ATAD BUILDING - DEMOLITION SECTION 15 13C1 SLUDGE HOLDING TANK No. 2 - LOWER LEVEL MODIF 13C2 SLUDGE HOLDING TANK No. 2 - UPPER LEVEL MO 13C3 SLUDGE HOLDING TANK No. 2 - MODIFICATION SE 13C4 SLUDGE HOLDING TANK No. 2 - MODIFICATION 13E1 POWER MODIFICATION PLAN Area 14 - EXISTING SOLIDS PROCESSING BUILDIN 14D1 DEMOLITION PLAN 14D2 DEMOLITION SECTIONS 14C1 MODIFICATION PLAN 14C2 MODIFICATION SE ACILITY POWER MODIFICATION AND DEMOLITION PLANS DIFICATION PLAN ODIFICATION SECTION AND ELEVATION STRUCTURAL PLAN 15S2 STRUCTURAL ELEVATIONS 15S3 STRUCTURAL SECTIONS AND DETAILS Area 16 - NEW BLOWER BUILDING 16G1 PERSPECTIVE VIEWS 16A1 PLAN 16A2 ELEVATIONS 16A3 SECTIONS For Viewing Purposes Only - Visit w 16C1 PLAN 16C2 SECTIONS 16S1 FOUNDATION PLAN AND SECTIONS 16S2 ROOF FRAMING PLAN AND ELEVATION 42 16S3 CMU WALL REINFORCING ELEVATIONS 43 16M1 MECHANICAL PLAN 16E1 POWER AND LIGHTING PLAN Area 17 - MISCELLANEOUS STRUCTURES 45 17C1 NEW VACTOR TRUCK DEBRIS PAD - PLAN AND SECTIONS 17C2 NEW VACTOR TRUCK DEBRIS PAD DETAILS - SECTIONS AND DETAILS 17C3 MISCELLANEOUS STRUCTURES 17S1 NEW VACTOR TRUCK DEBRIS PAD - FOUNDATION PLAN AND SECTIONS 49 17E1 EXISTING CHEMICAL BUILDING - POWER PLAN Area 18 - MISCELLANEOUS DETAILS 50 18Y1 MISCELLANEOUS SITE DETAILS 51 18Y2 MISCELLANEOUS SITE DETAILS 18Y3 MISCELLANEOUS SITE DETAILS 18EC1 MISCELLANEOUS EROSION CONTROL DETAILS 18EC2 MISCELLANEOUS EROSION CONTROL DETAILS 18EC3 MISCELLANEOUS EROSION CONTROL DETAILS 18C1 MISCELLANEOUS CIVIL DETAILS 18C2 VALVE SCHEDULE 18A1 DOOR AND ROOM FINISH SCHEDULE AND DETAILS 18S1 STANDARD STRUCTURAL DETAILS 60 18S2 STANDARD STRUCTURAL DETAILS 18S3 STANDARD STRUCTURAL DETAILS 18S4 STANDARD STRUCTURAL DETAILS 18S5 STANDARD STRUCTURAL DETAILS
18S6 STANDARD STRUCTURAL DETAILS 18M1 MECHANICAL DETAILS 66 18M2 MECHANICAL SCHEDULES 18E1 ELECTRICAL DETAILS 18E2 ELECTRICAL DETAILS 18E3 ELECTRICAL DETAILS 18E4 ELECTRICAL DETAILS - GROUNDING 18E5 WIRING DIAGRAMS 72 18E6 WIRING DIAGRAMS

**DRAWING INDEX - VOLUME 2** 2024 WWTP EXPANSION CITY OF FRANKLIN, INDIANA SHEET TYPE DEFINITIONS: G - GENERAL D - DEMOLITION A - ARCHITECTURAL C - CIVIL/PROCESS S - STRUCTURAL M - HEATING, VENTILAT P - PLUMBING Area 19 - ELECTRICAL EM DEMOLITION ONE LINE GE ELECTRICAL DEMOLITION ONE-LINE A SEWAGE ELECTRICAL DEMOLITION ONE-LINE B EADWORKS BUILDING ELECTRICAL DEMOLITION ONE-LINE CHEMICAL BUILDING ELECTRICAL DEMOLITION ONE-LINE SECONDARY CONTROL ELECTRICAL DEMOLITION ONE-LINE A 19E8 SECONDARY CONTROL ELECTRICAL DEMOLITION ONE-LINE B 19E9 UV STRUCTURE ELECTRICAL DEMOLITION ONE-LINE 19E10 SLUDGE HOLDING ELECTRICAL DEMOLITION ONE-LINE 19E11 DEWATERING FEED FACILITY ELECTRICAL DEMOLITION ONE-LINE 19E12 SOLIDS PROCESS ELECTRICAL DEMOLITION ONE-LINE 85 19E13 OVERALL SYSTEM UPGRADE ONE LINE 86 19E14 RAW SEWAGE ELECTRICAL UPGRADE ONE-LINE A 19E15 BLOWER BUILDING ONE-LINE 88 19E16 OXIDATION DITCHES ONE-LINE 89 19E17 HEADWORKS BUILDING ELECTRICAL UPGRADE ONE-LINE 90 19E18 CHEMICAL BUILDING ELECTRICAL UPGRADE ONE-LINE 91 19E19 SECONDARY CONTROL ELECTRICAL UPGRADE ONE-LINE A 19E20 SECONDARY CONTROL ELECTRICAL UPGRADE ONE-LINE B 19E21 UV STRUCTURE ELECTRICAL UPGRADE ONE-LINE 94 19E22 SLUDGE HOLDING ELECTRICAL UPGRADE ONE-LINE 95 19E23 DEWATERING FEED ELECTRICAL UPGRADE ONE-LINE 19E24 SOLIDS PROCESS ELECTRICAL UPGRADE ONE-LINE 19E25 | SCREENS, RAW SEWAGE AND GRIT CONTROLS ONE-LINE DIAGRAM 19E26 OXIDATION DITCHES CONTROLS ONE-LINE DIAGRAM 19E27 SECONDARY CONTROL BUILDING CONTROLS ONE-LINE DIAGRAM 100 19E28 UV AND SLUDGE HOLDING CONTROLS ONE-LINE DIAGRAM 101 19E29 SOLIDS PROCESS CONTROLS ONE-LINE DIAGRAM Area 20 - NETWORK 102 20N1 PROCESS AND INSTRUMENTATION LEGEND 103 20N2 SCREENS AND RAW SEWAGE PUMP STATION P&ID 104 20N3 DRY WEATHER PUMP STATION P&ID 105 20N4 HEADWORKS P&ID 106 20N5 OXIDATION DITCHES P&ID 107 20N6 SECONDARY CLARIFIERS P&ID 108 20N7 UV AND CASCADE AERATION P&ID
109 20N8 SECONDARY CONTROL BUILDING P&ID 110 20N9 SOLIDS PROCESS P&ID 111 20N10 NON-POTABLE WATER P&ID 112 20N11 NETWORK DIAGRAM 113 20N12 NETWORK DIAGRAM

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DRAWING INDEX - VOLUME 2
2024 WWTP EXPANSION

CITY OF FRANKLIN, INDIANA

**WASTEWATER TREATMENT PLANT EXPANSION** 

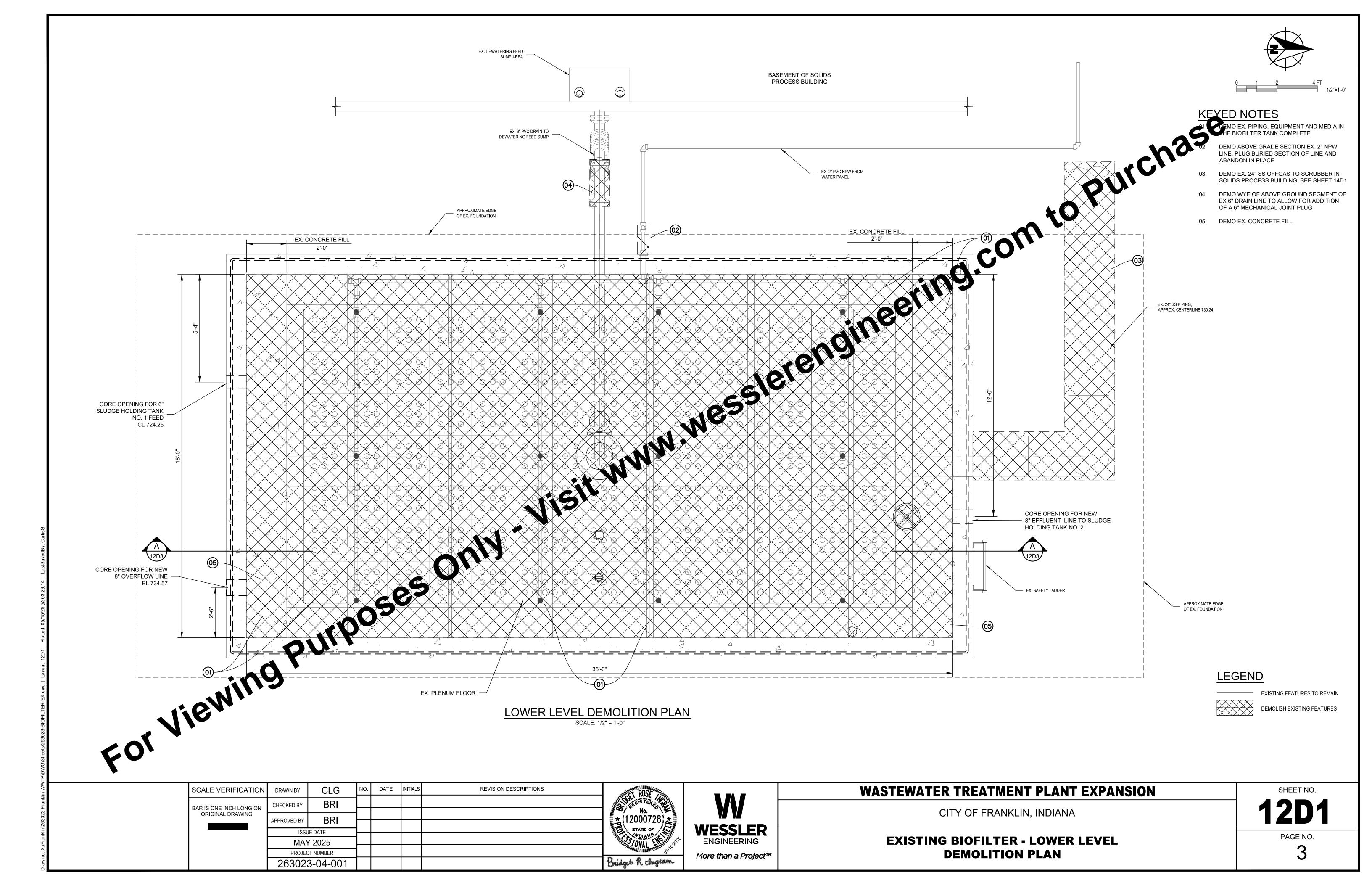
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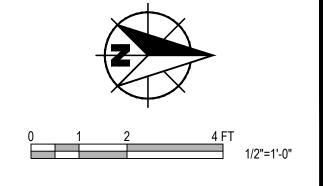
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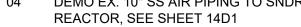
**DRAWING INDEX - VOLUME 2** 

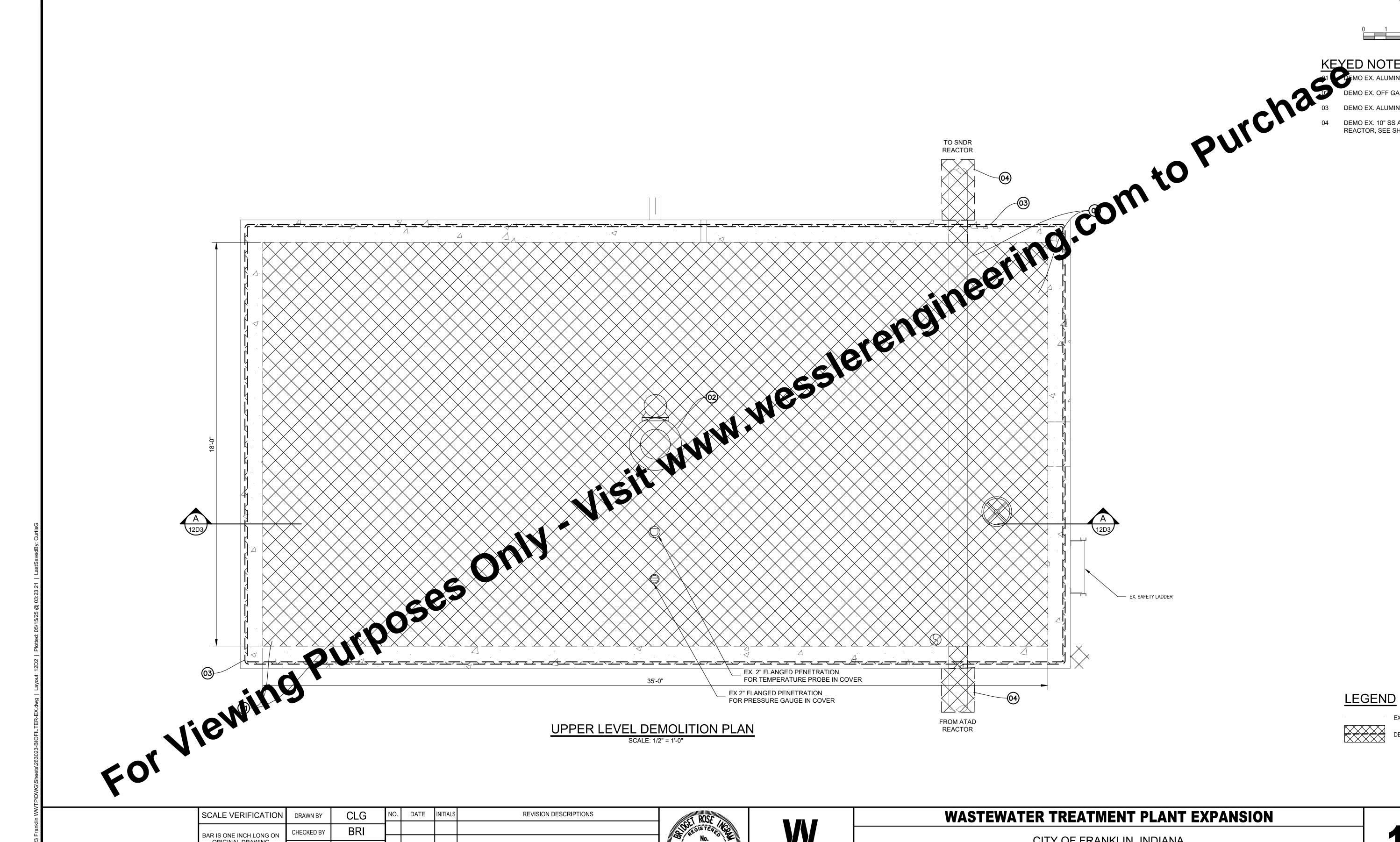
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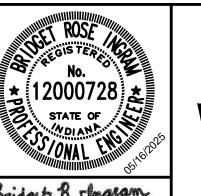


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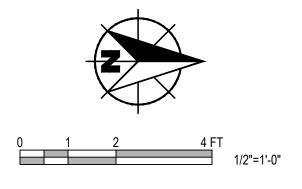


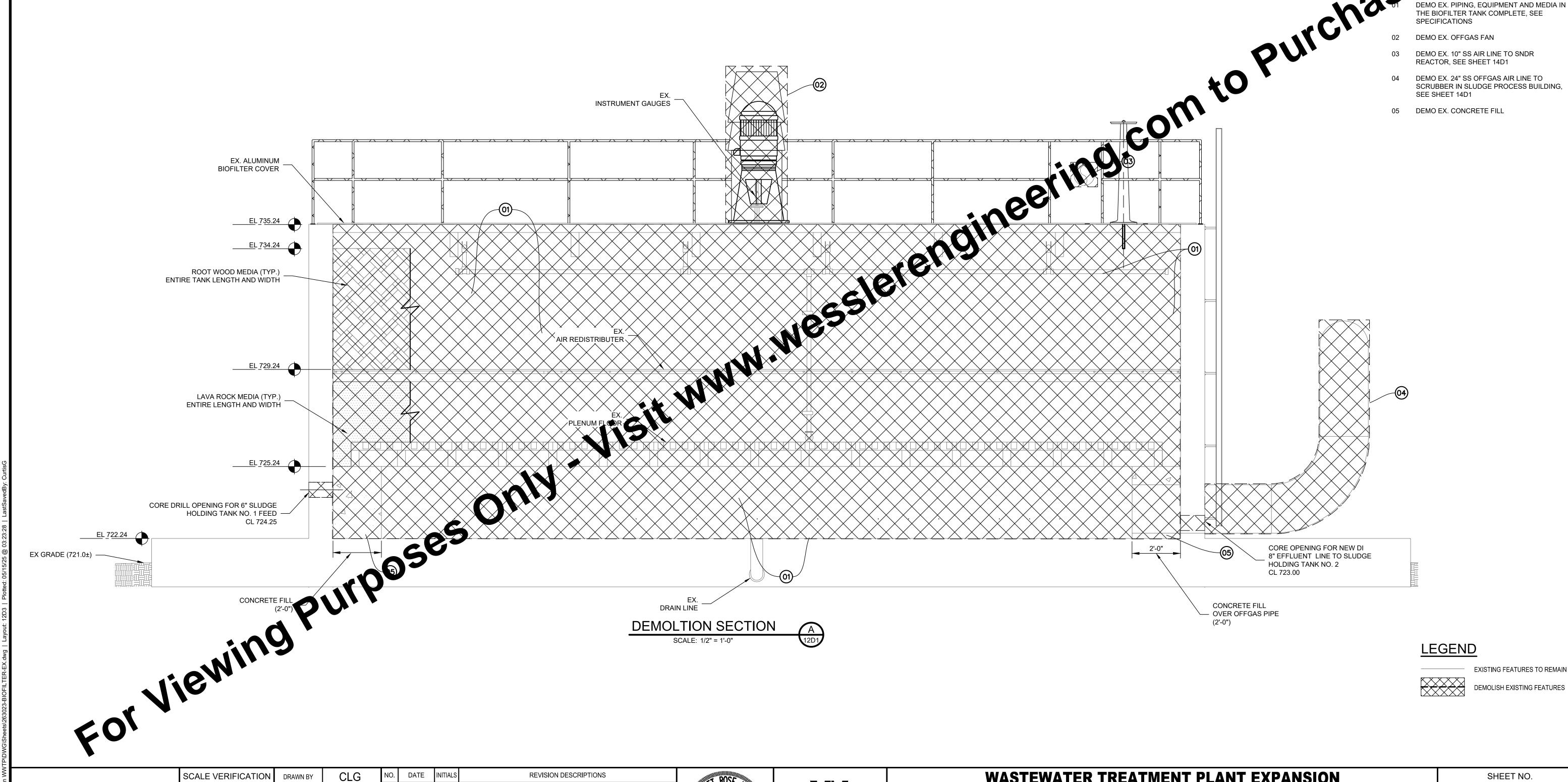
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CITY OF FRANKLIN, INDIANA

PAGE NO.

**EXISTING BIOFILTER - UPPER LEVEL DEMOLITION PLAN** 





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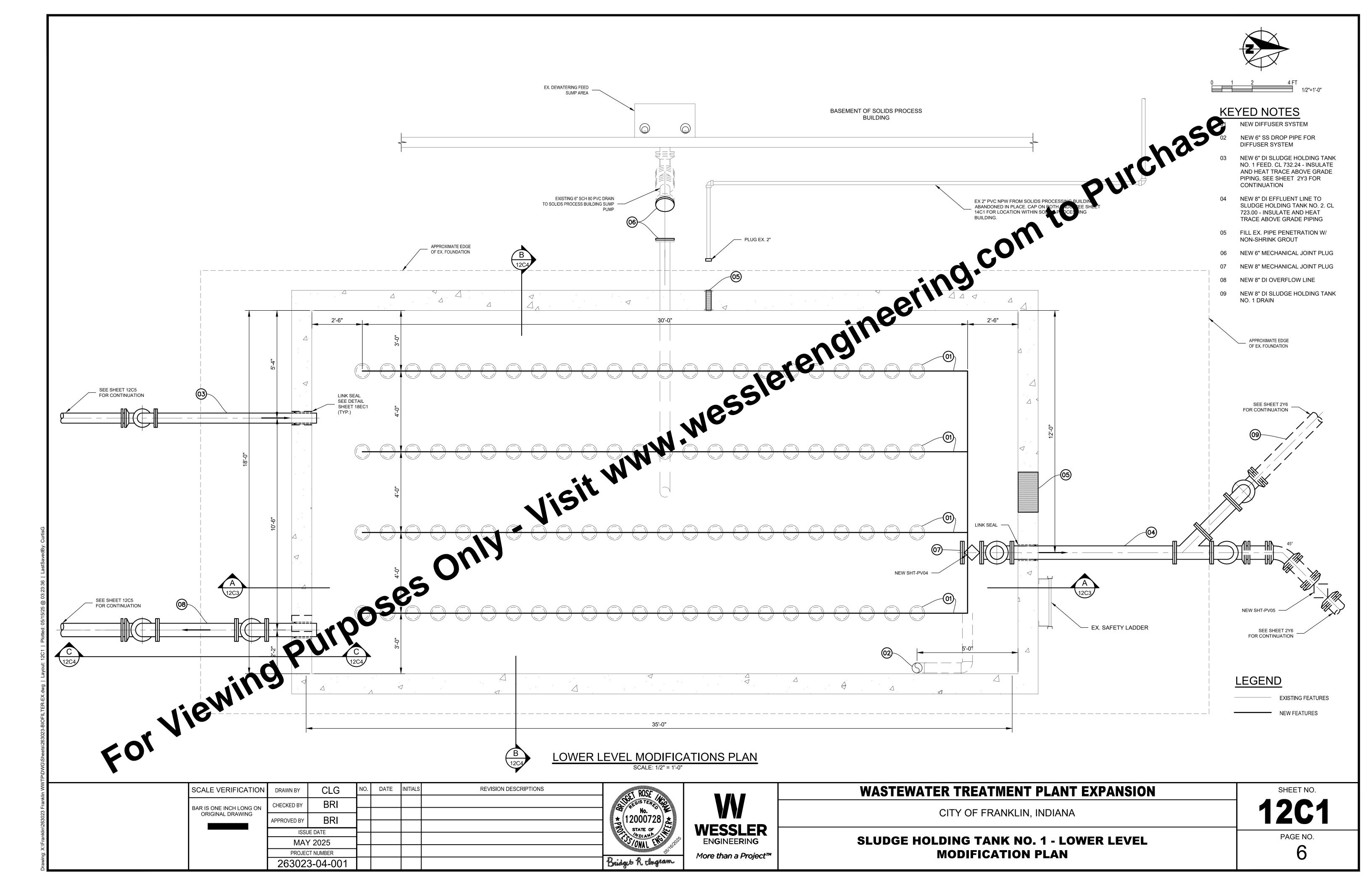
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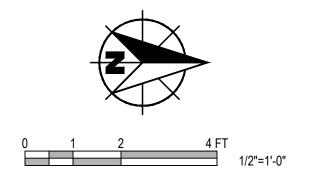
CITY OF FRANKLIN, INDIANA

**EXISTING BIOFILTER - DEMOLITION SECTION** 

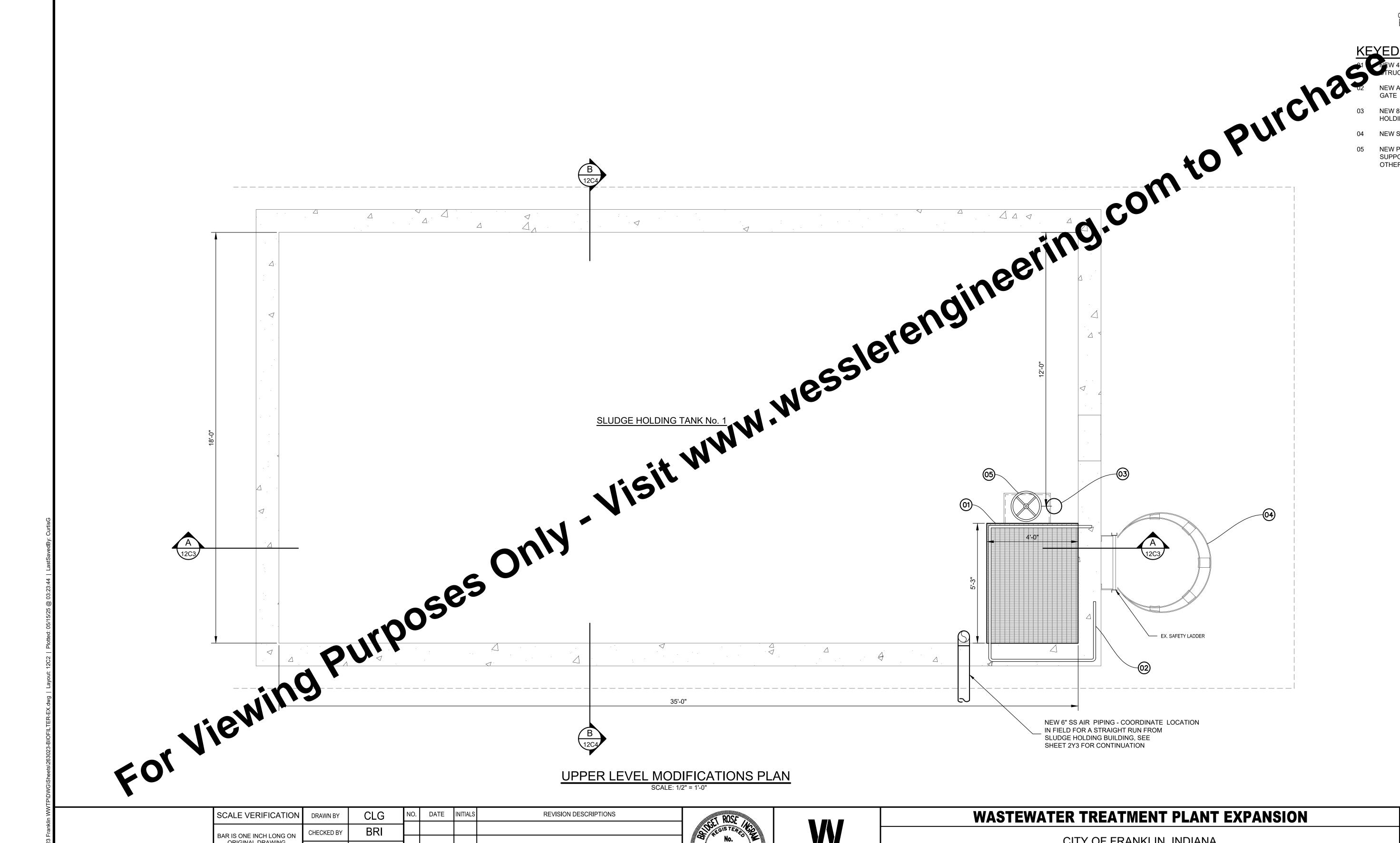
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PAGE NO.





NEW PLUG VALVE OPERATOR AND SUPPORT STRUCTURE PROVIDED BY



LEGEND

**EXISTING FEATURES** 

NEW FEATURES

DATE INITIALS CLG REVISION DESCRIPTIONS SCALE VERIFICATION DRAWN BY CHECKED BY BAR IS ONE INCH LONG ON ORIGINAL DRAWING BRI ISSUE DATE MAY 2025 PROJECT NUMBER 263023-04-001



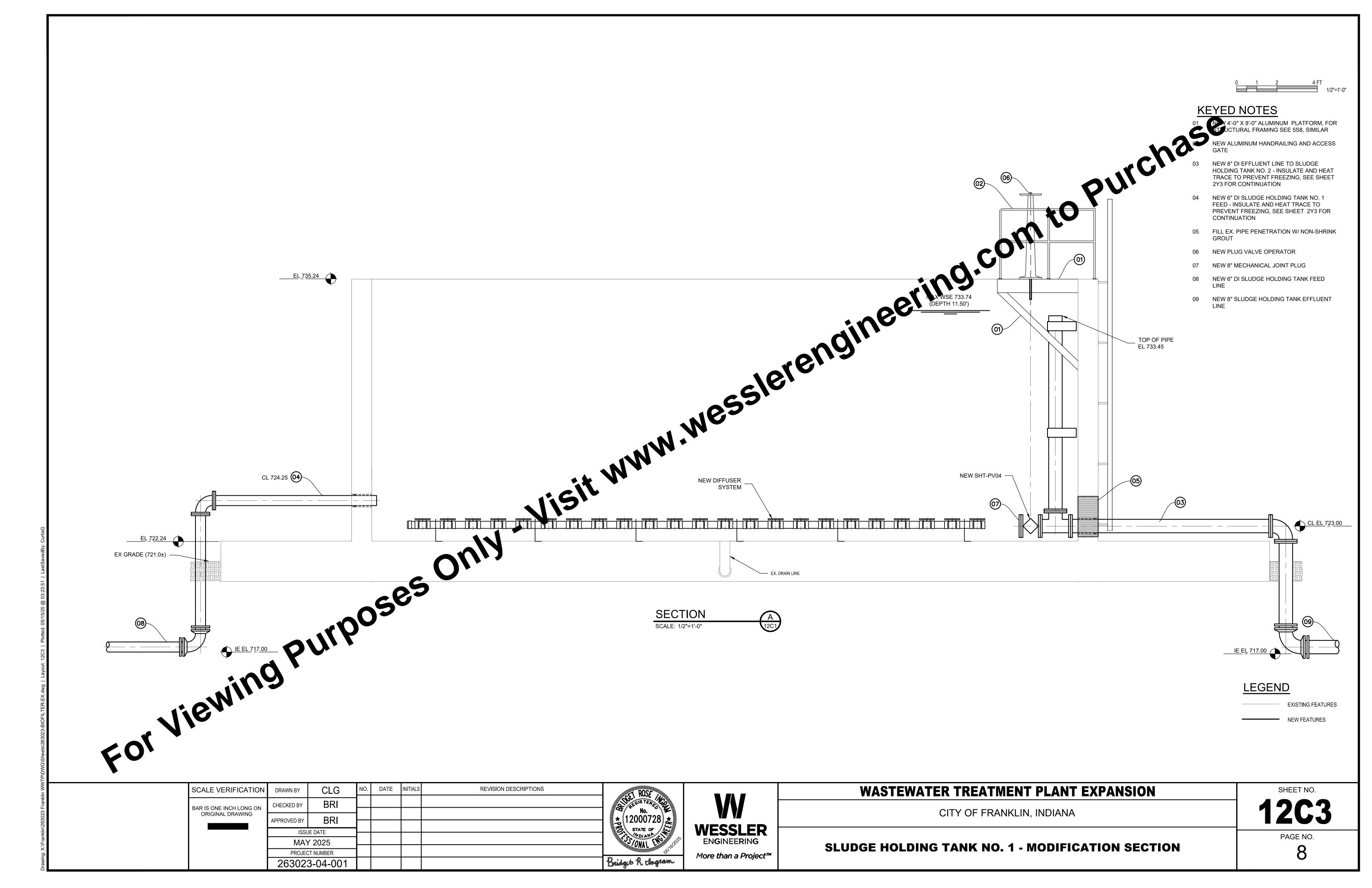
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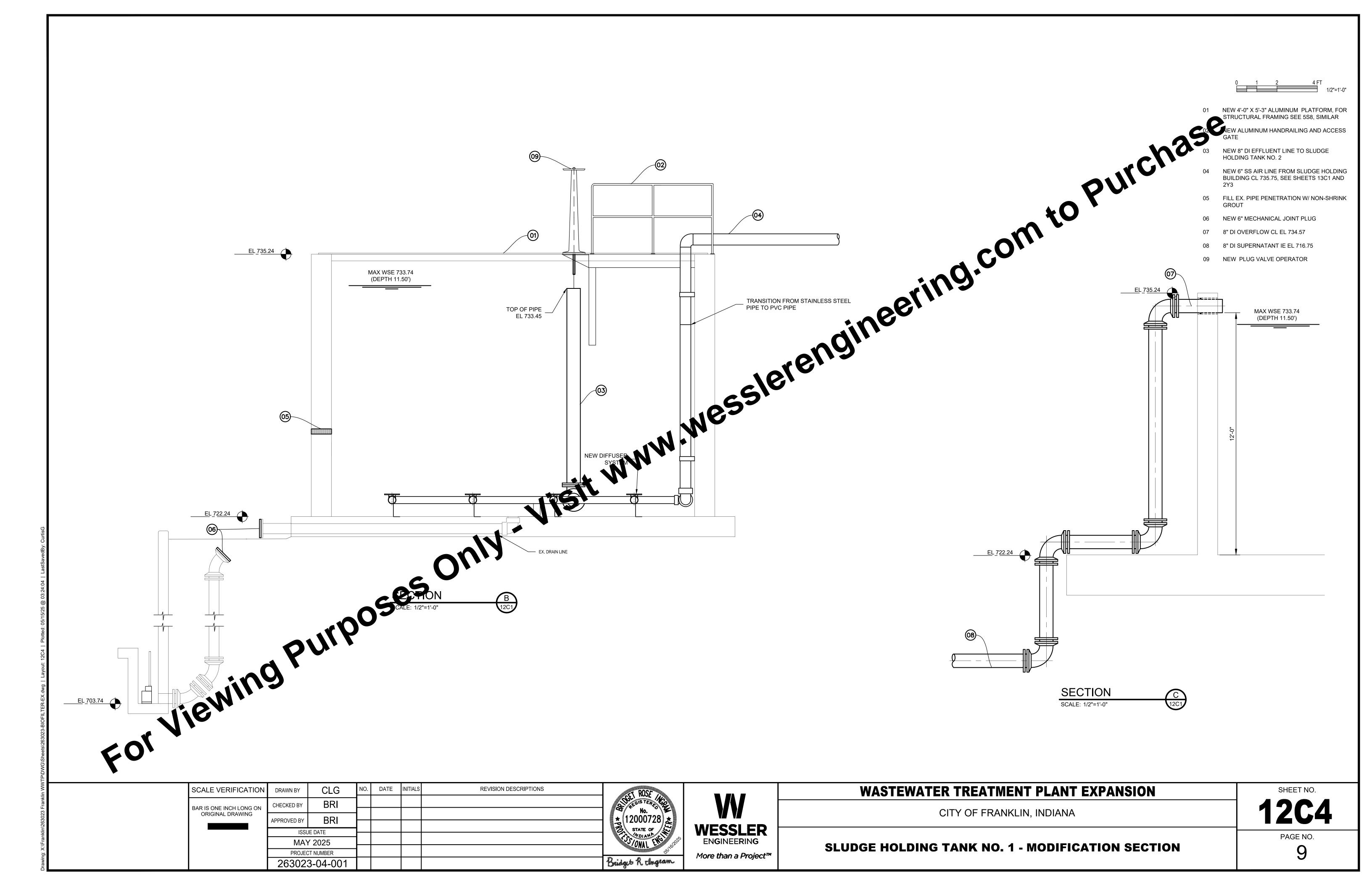
### WASTEWATER TREATMENT PLANT EXPANSION

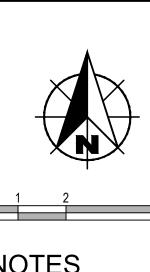
SLUDGE HOLDING TANK NO. 1 - UPPER LEVEL MODIFICATION PLAN

CITY OF FRANKLIN, INDIANA

PAGE NO.







**EXED NOTES** 

NEW 8" DI FROM SLUDGE HOLDING TANK NO. 2 TO TANKS 3A AND 3B

NEW 8" DI OVERFLOW LINE FROM SLUDGE HOLDING TANK NO. 1

NEW 6" DI SLUDGE HOLDING TANK NO. 1

EX AND NEW 6" TWAS FEED LINE (ALT)

NEW 8" X 6" MJ WYE 06 NEW 6" X 6" TEE

EX 4" DI TRANSFER TO HEAT EXCHANGER OR SNDR TO BE CAPPED AND ABANDONED IN

08 EX 6" DI COOLING LINE FROM HEAT EXCHANGER TO BE CAPPED AND ABANDONED

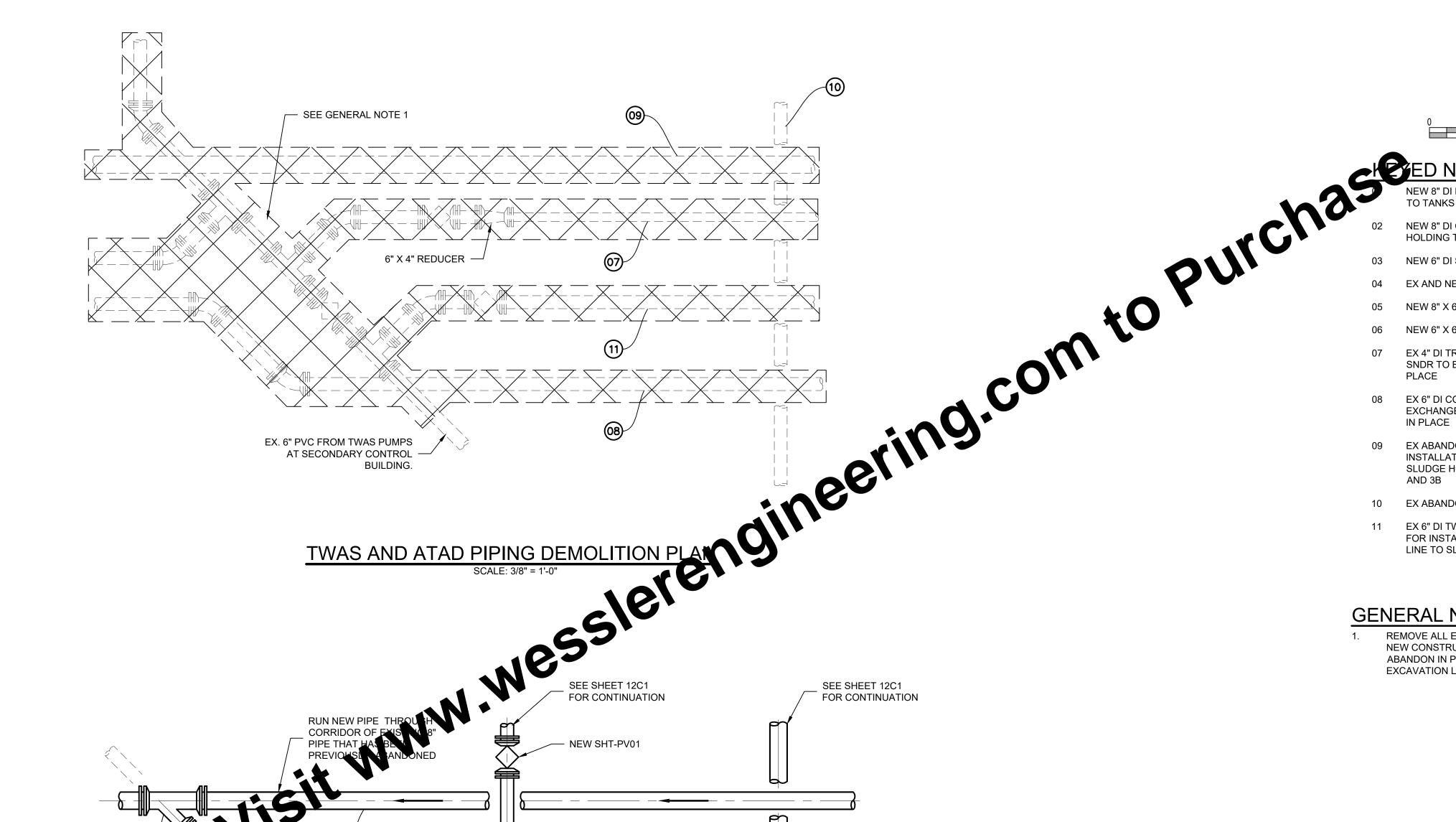
09 EX ABANDONED 8" DI TO BE DEMOLISHED FOR INSTALLATION OF NEW 8" DI LINE FROM SLUDGE HOLDING TANK NO. 2 TO TANKS 3A

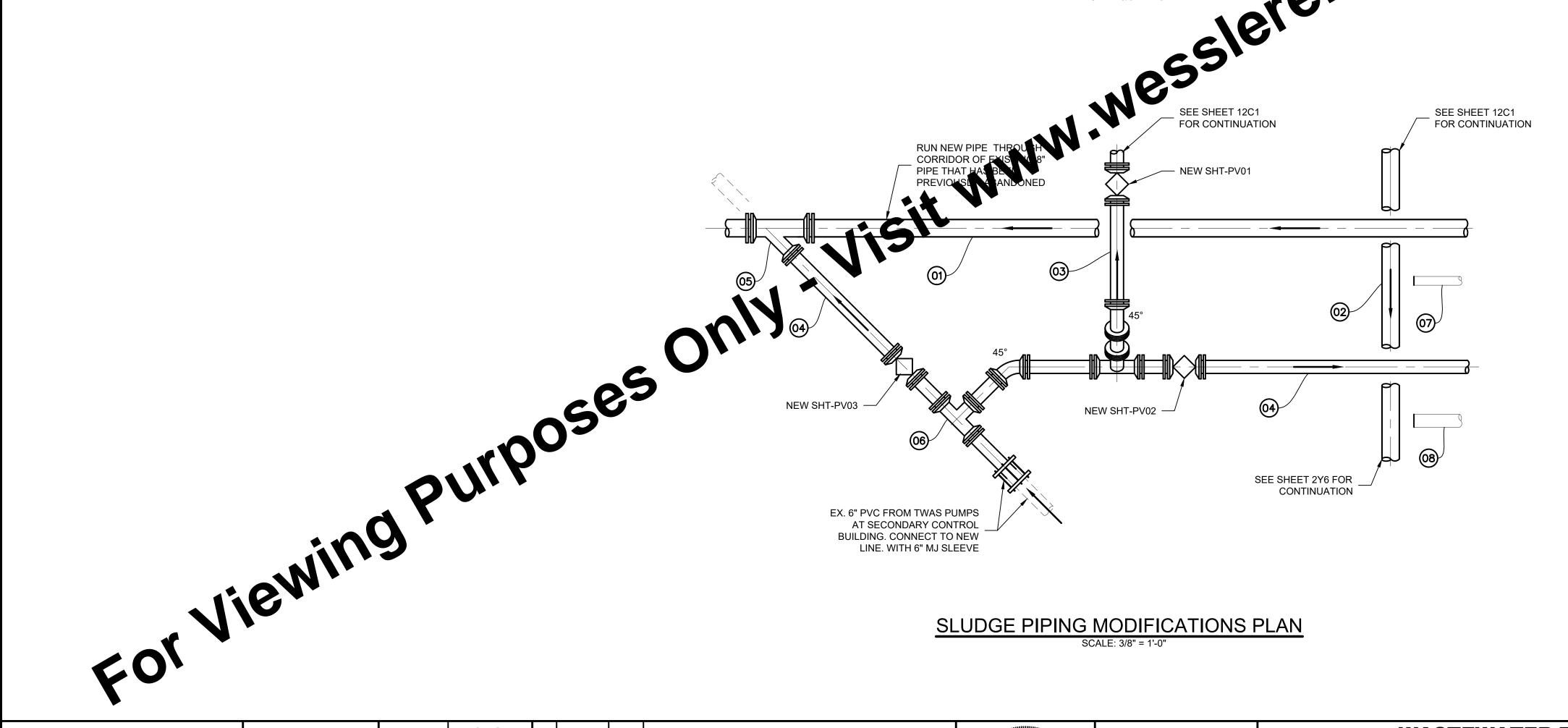
10 EX ABANDONED 6" DI

11 EX 6" DI TWAS FEED LINE TO BE DEMOLISHED FOR INSTALLATION OF NEW 6" TWAS FEED LINE TO SLUDGE HOLDING TANK NO. 2

#### **GENERAL NOTES:** REMOVE ALL EX PIPING WITHIN LIMITS OF

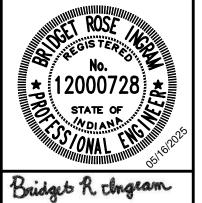
NEW CONSTRUCTION PIPING. CAP AND ABANDON IN PLACE ALL PIPING OUTSIDE OF EXCAVATION LIMITS.





SLUDGE PIPING MODIFICATIONS PLAN SCALE: 3/8" = 1'-0"

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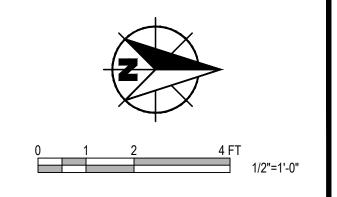
**WESSLER ENGINEERING** More than a Project™ WASTEWATER TREATMENT PLANT EXPANSION

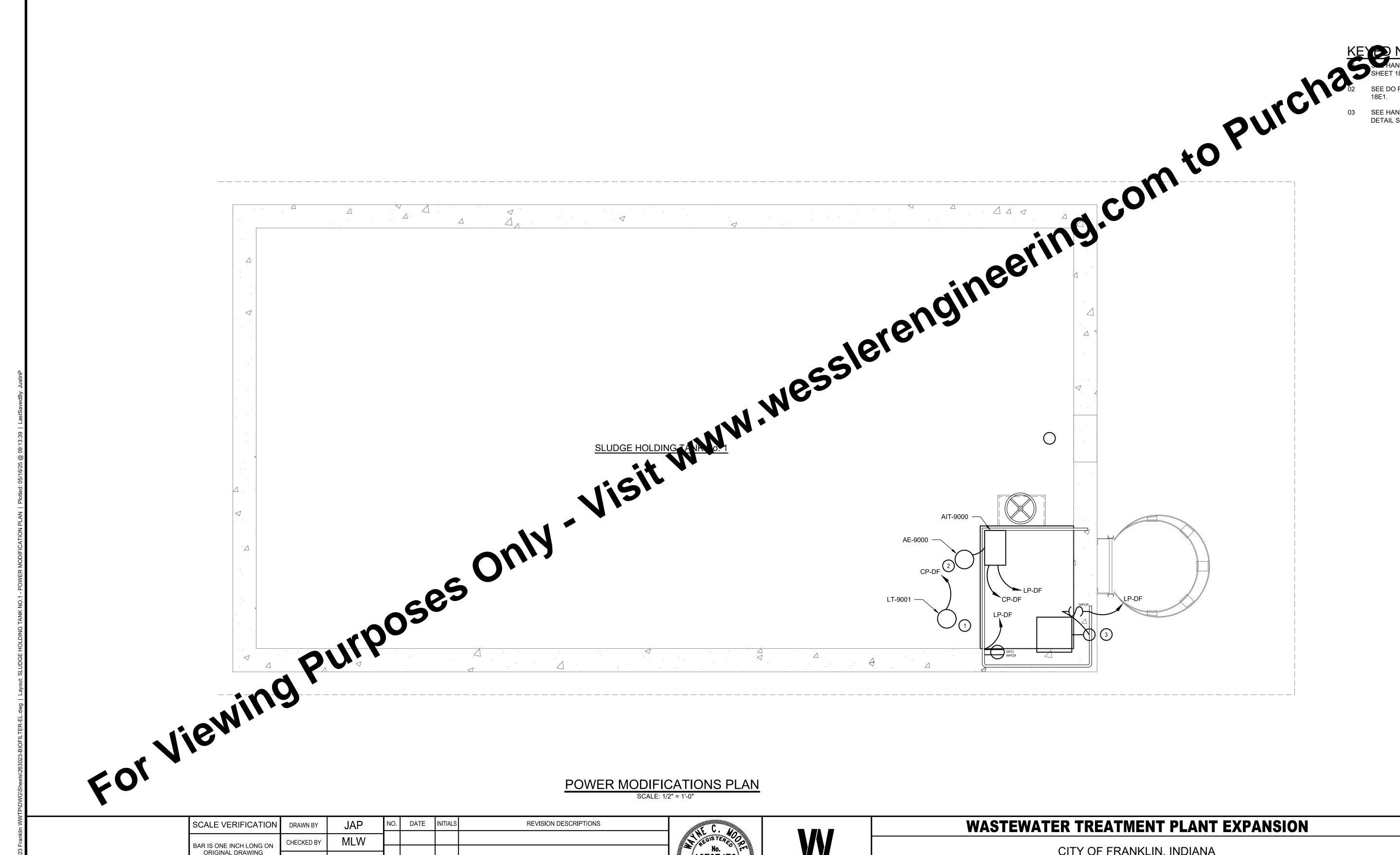
CITY OF FRANKLIN, INDIANA

**SLUDGE HOLDING TANK NO. 1 - PIPING MODIFICATION PLAN** 

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10





LEGEND

**EXISTING FEATURES** 

NEW FEATURES

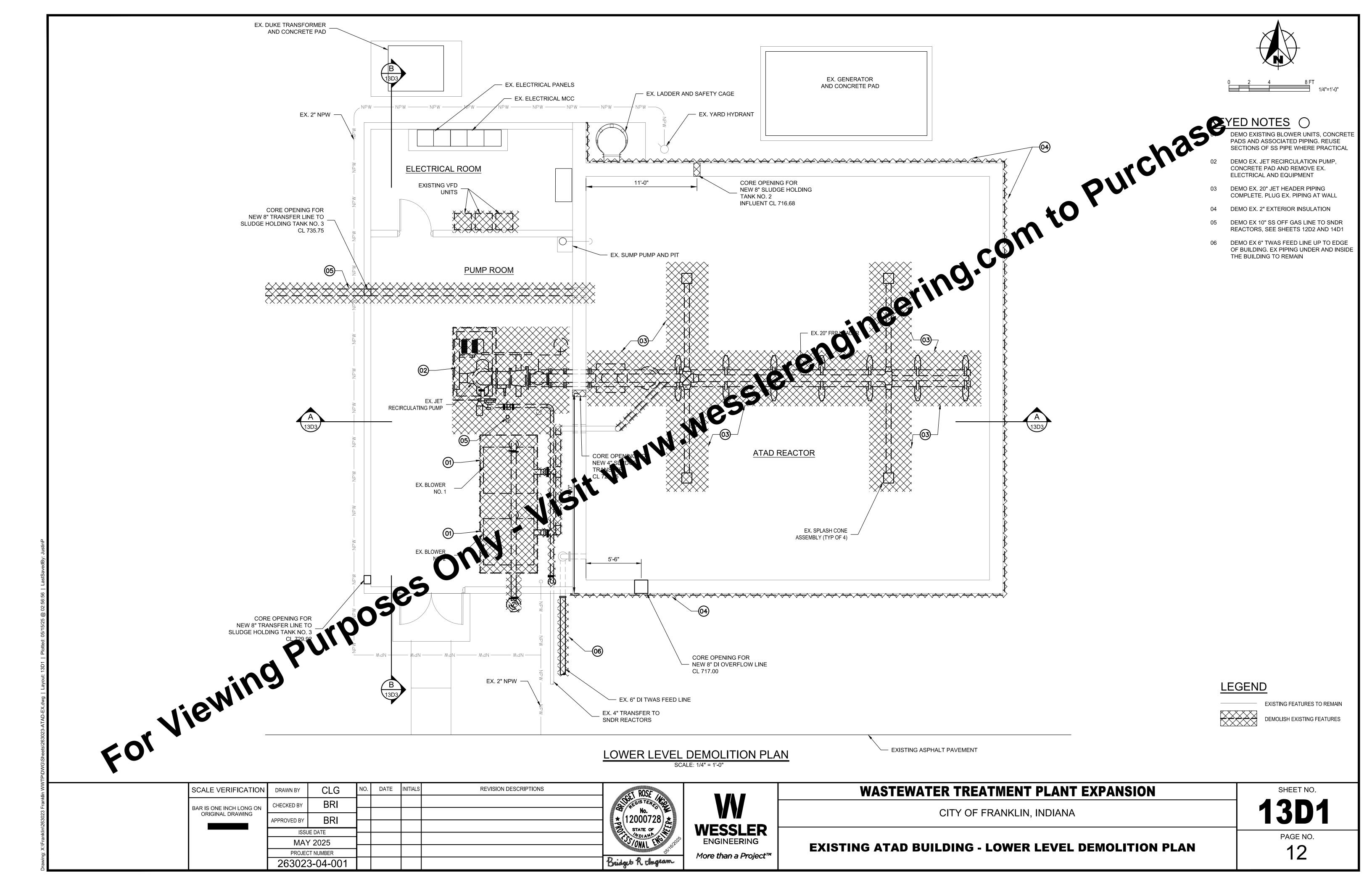
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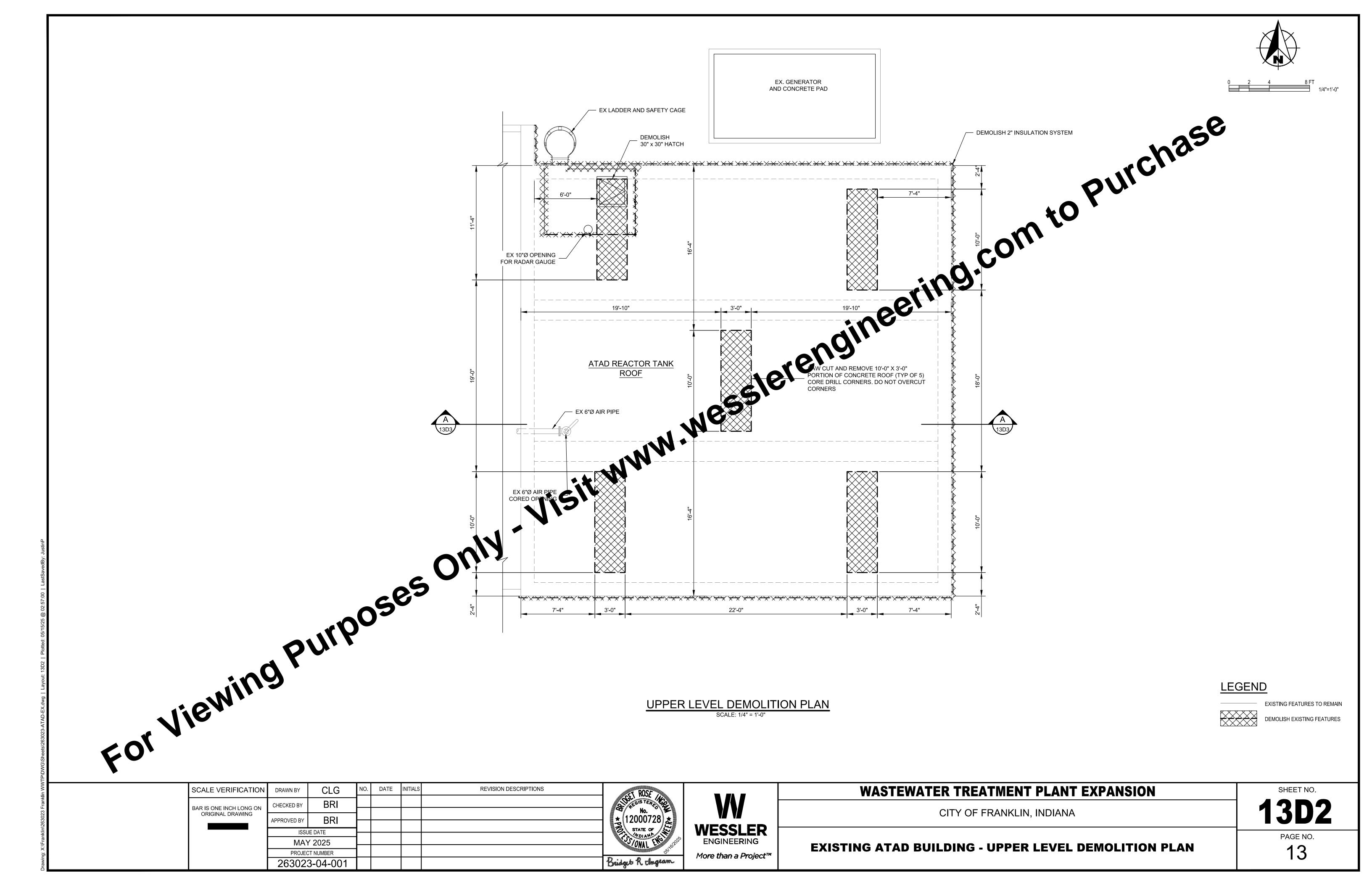
**WESSLER** ENGINEERING More than a Project™ WASTEWATER TREATMENT PLANT EXPANSION CITY OF FRANKLIN, INDIANA

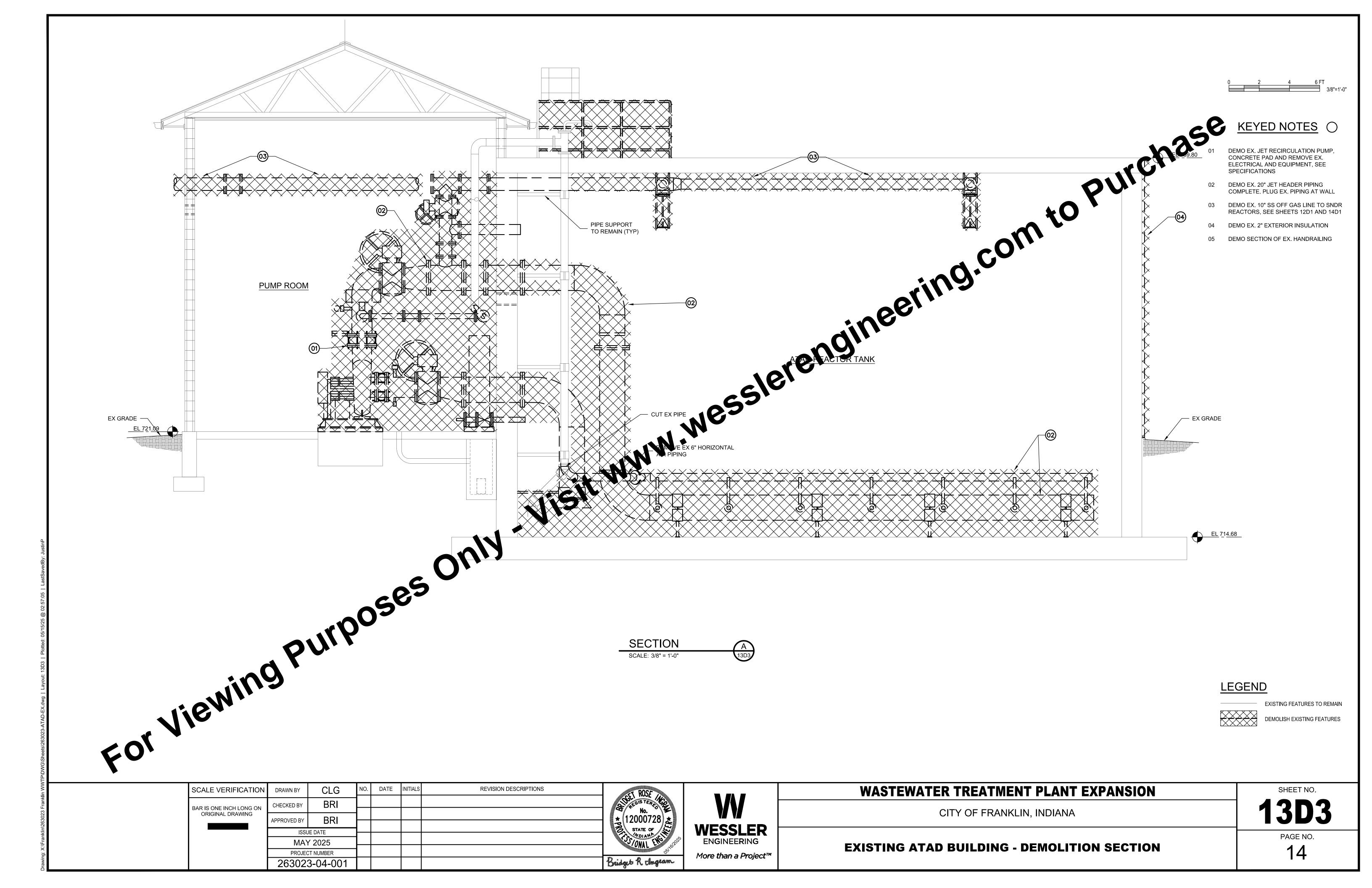
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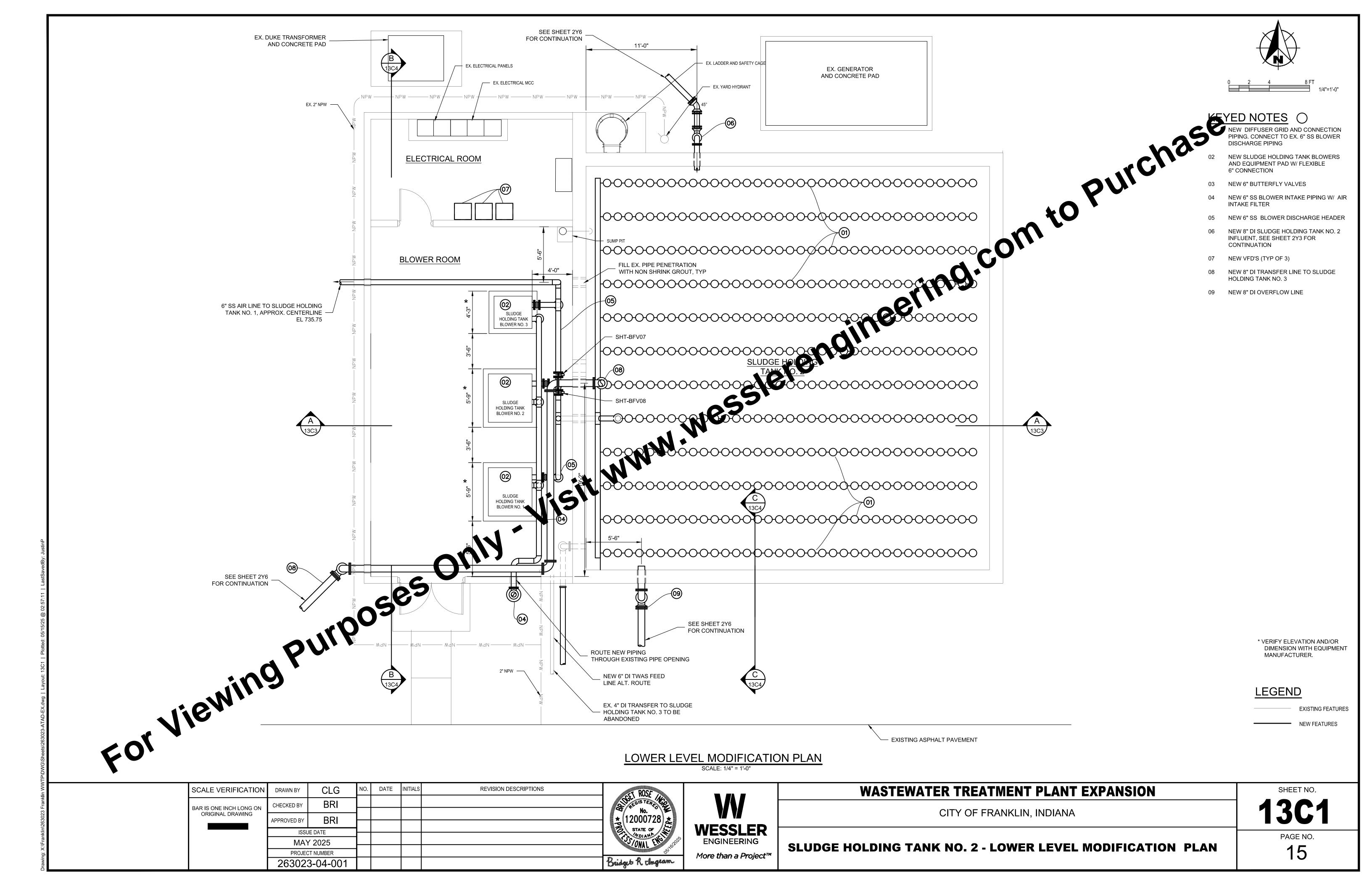
**SLUDGE HOLDING TANK NO.1 - POWER MODIFICATION PLAN** 

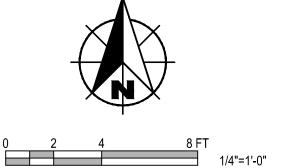
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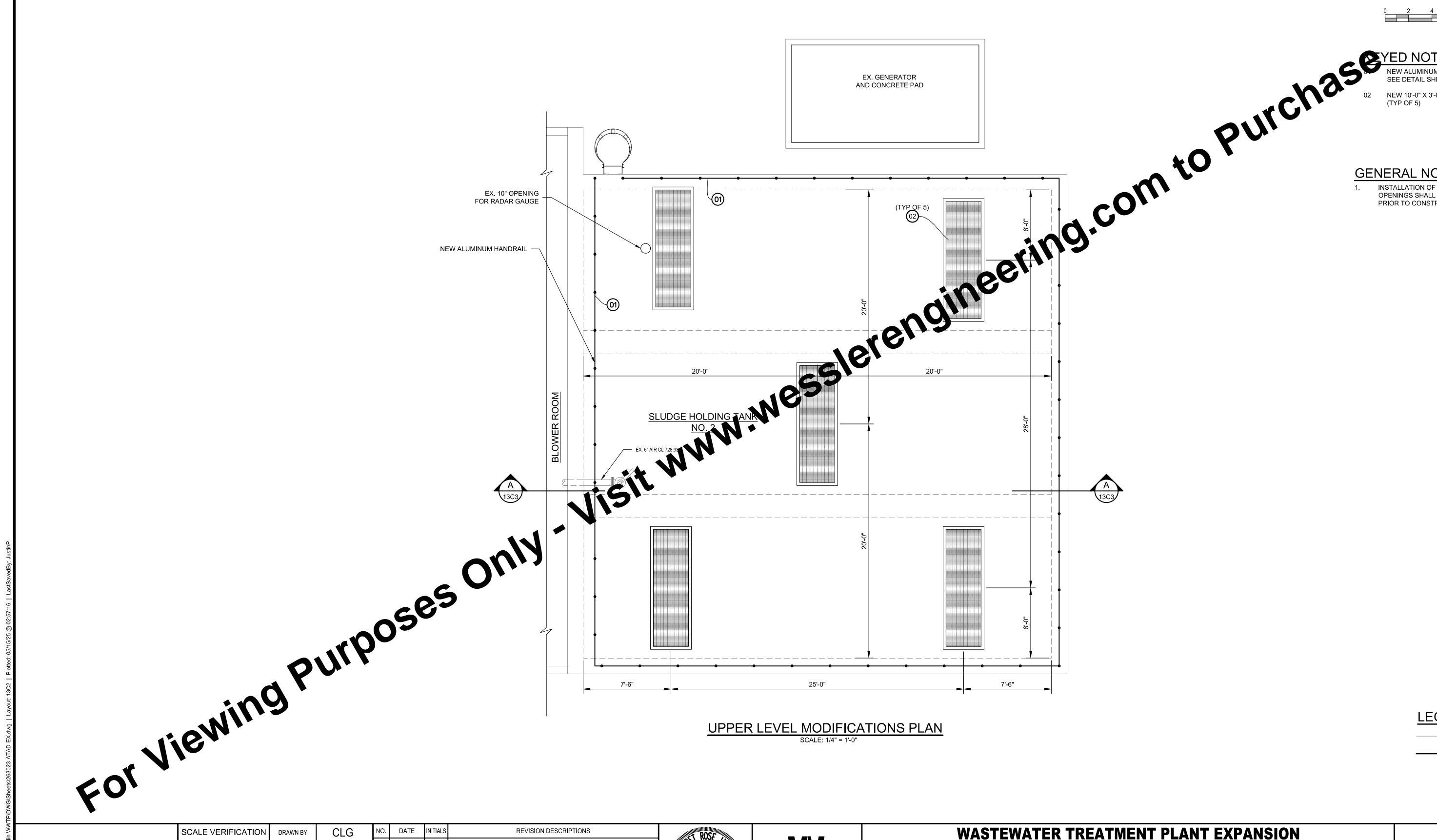












#### **GENERAL NOTES:**

INSTALLATION OF NEW GRATING AREA OPENINGS SHALL BE VERIFIED WITH UTILITY PRIOR TO CONSTRUCTION.

LEGEND

**EXISTING FEATURES** 

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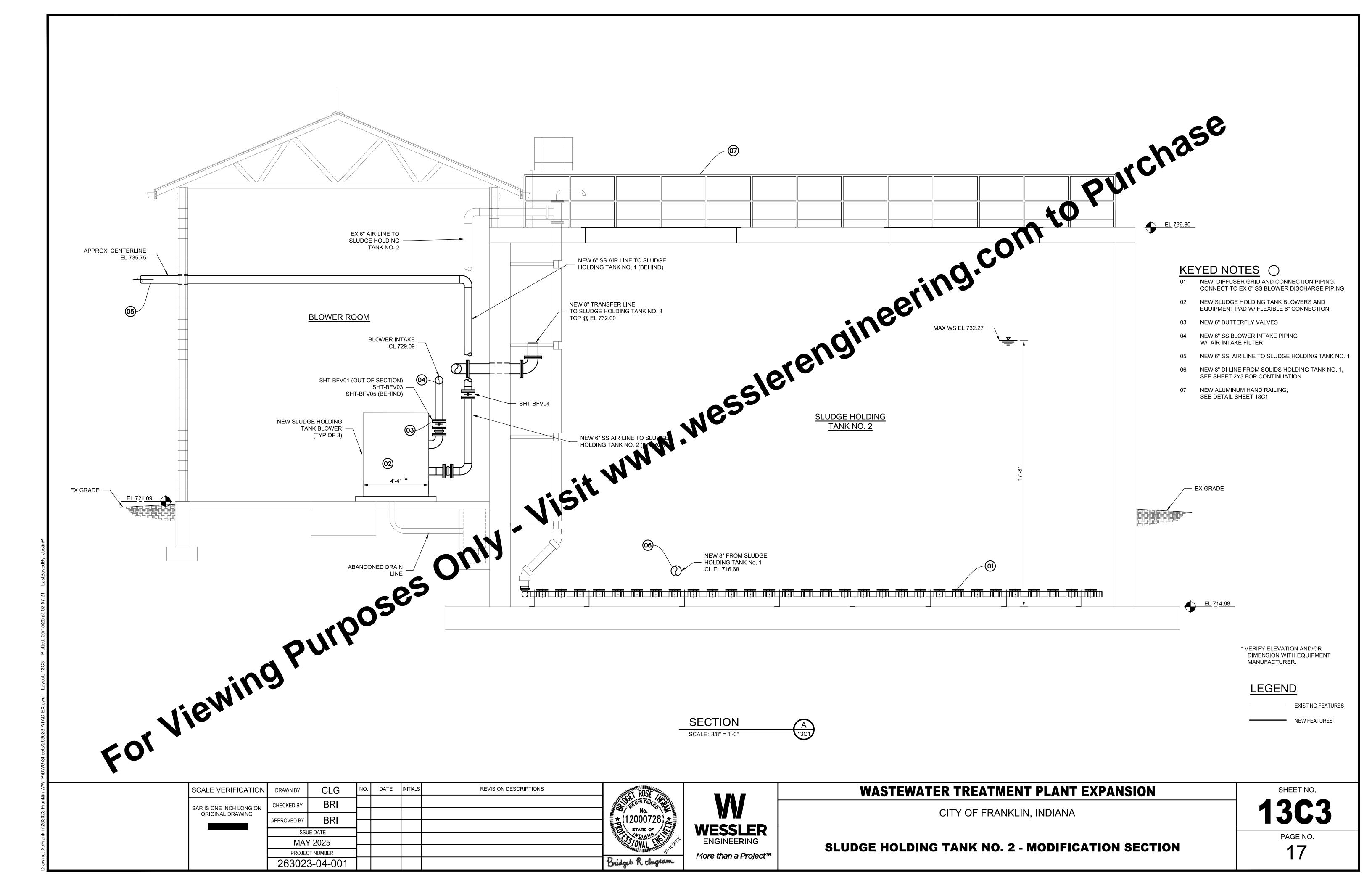
WASTEWATER TREATMENT PLANT EXPANSION CITY OF FRANKLIN, INDIANA

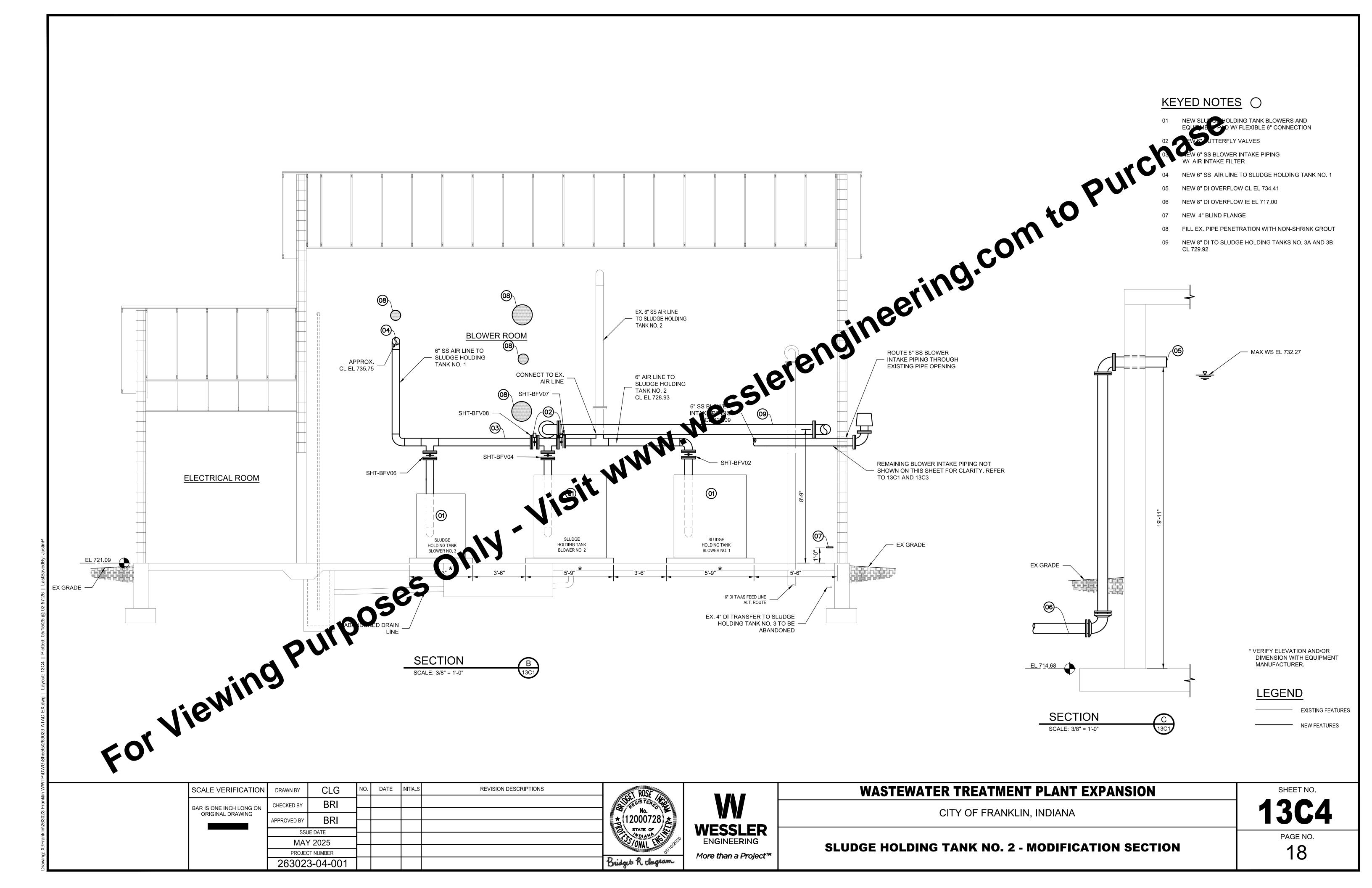
**SLUDGE HOLDING TANK NO. 2 - UPPER LEVEL MODIFICATION PLAN** 

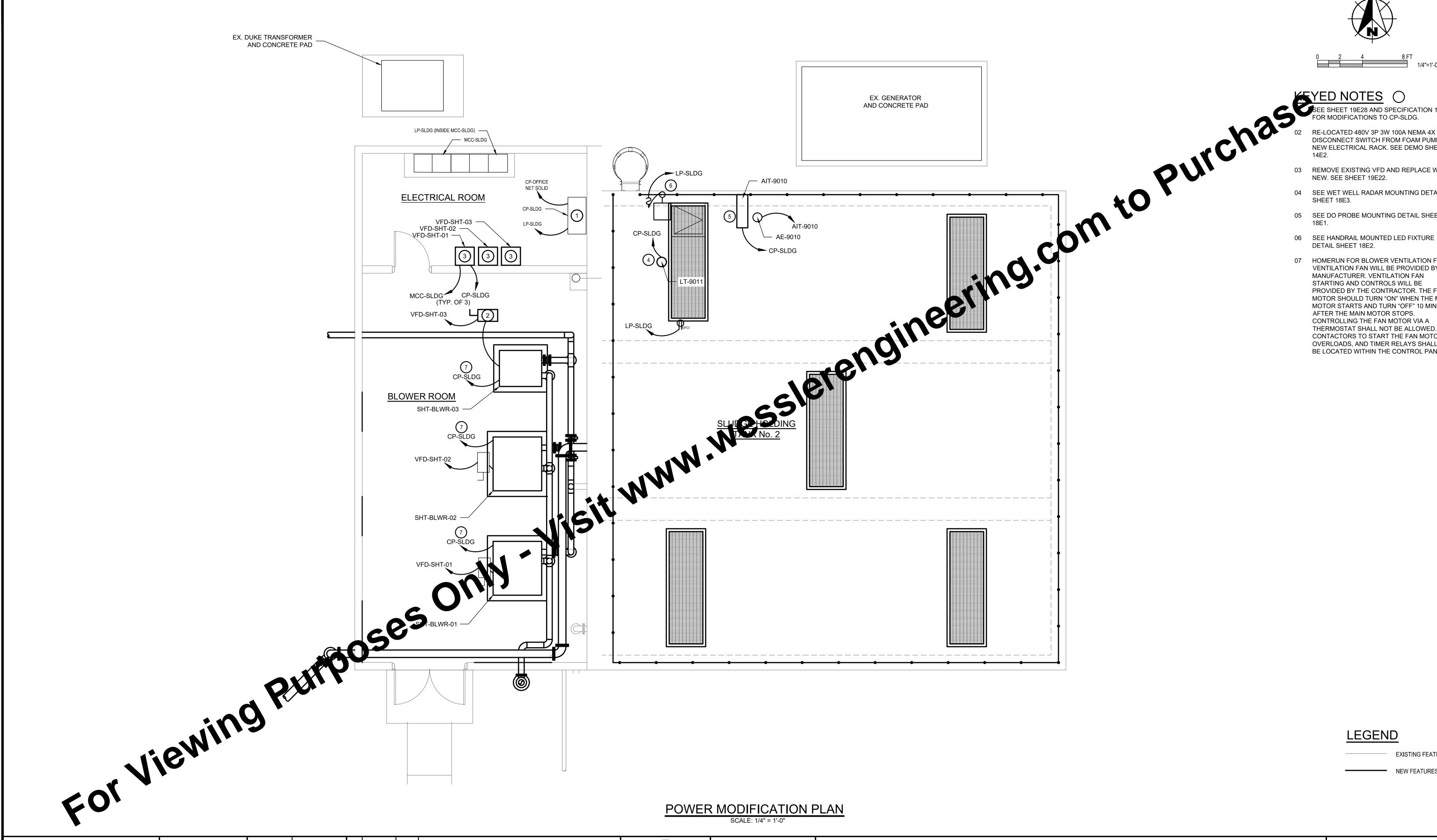
SHEET NO. 13C2

PAGE NO.

16







DISCONNECT SWITCH FROM FOAM PUMP ON NEW ELECTRICAL RACK. SEE DEMO SHEET

03 REMOVE EXISTING VFD AND REPLACE WITH

04 SEE WET WELL RADAR MOUNTING DETAIL

05 SEE DO PROBE MOUNTING DETAIL SHEET

DETAIL SHEET 18E2.

07 HOMERUN FOR BLOWER VENTILATION FANS. VENTILATION FAN WILL BE PROVIDED BY THE MANUFACTURER. VENTILATION FAN STARTING AND CONTROLS WILL BE PROVIDED BY THE CONTRACTOR. THE FAN MOTOR SHOULD TURN "ON" WHEN THE MAIN MOTOR STARTS AND TURN "OFF" 10 MINUTES AFTER THE MAIN MOTOR STOPS. CONTROLLING THE FAN MOTOR VIA A THERMOSTAT SHALL NOT BE ALLOWED. CONTACTORS TO START THE FAN MOTORS, OVERLOADS, AND TIMER RELAYS SHALL ALL BE LOCATED WITHIN THE CONTROL PANEL.

LEGEND

**EXISTING FEATURES** 

POWER MODIFICATION PLAN

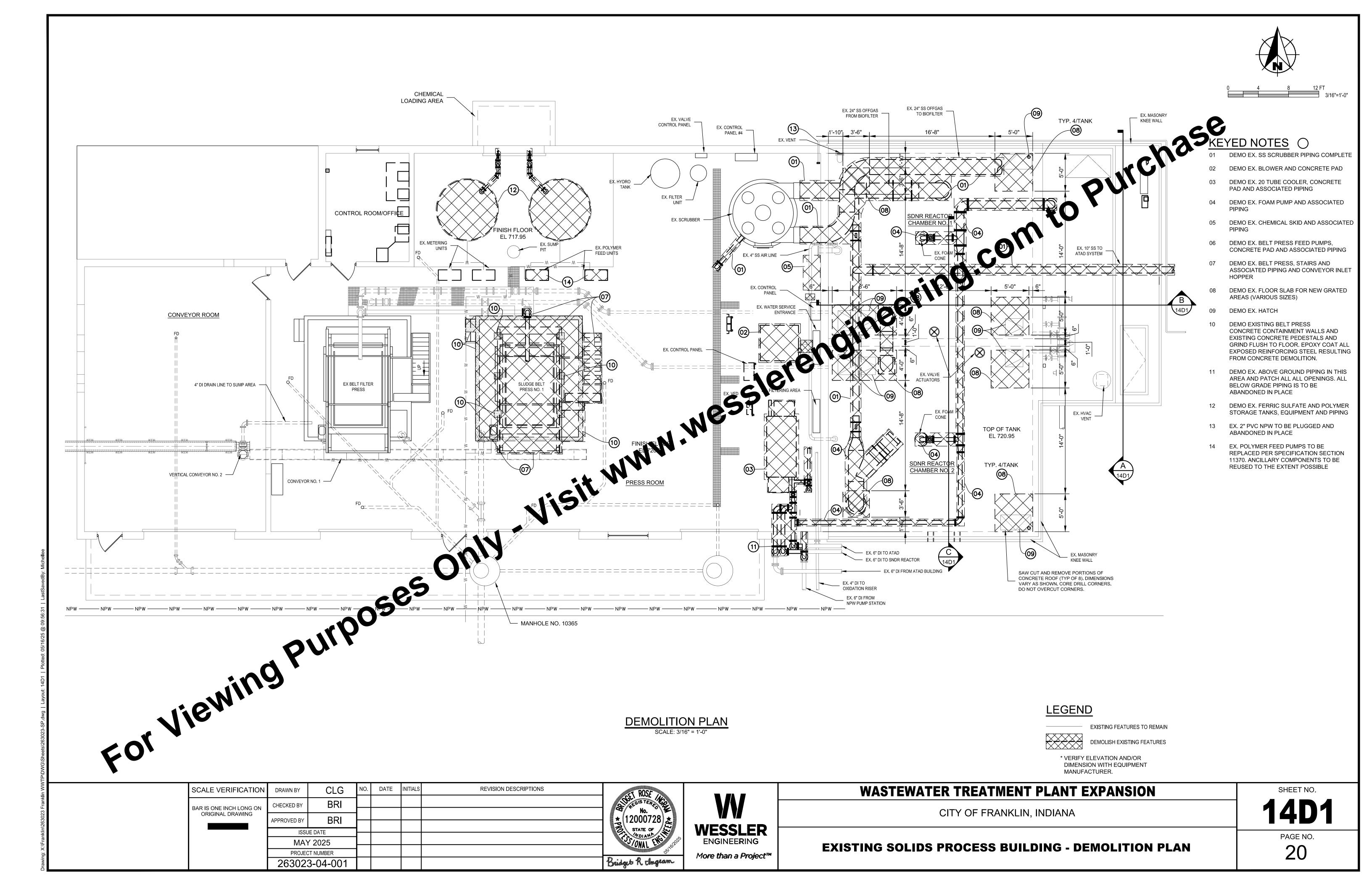
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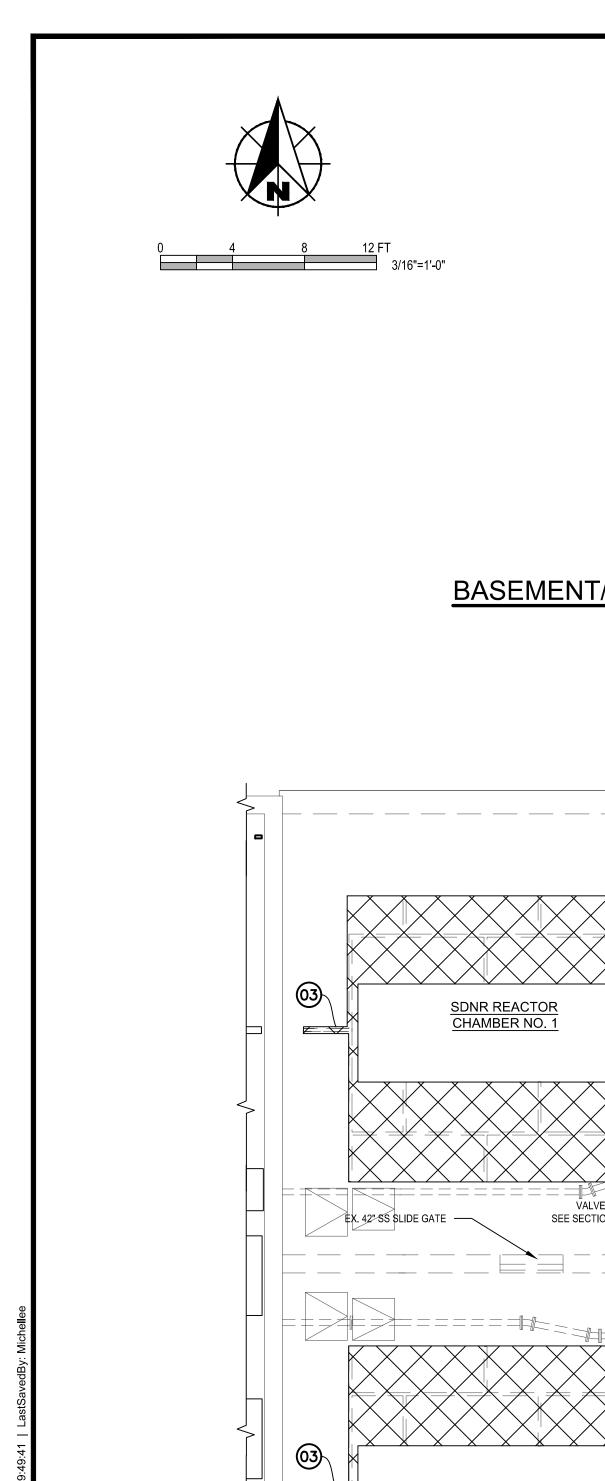
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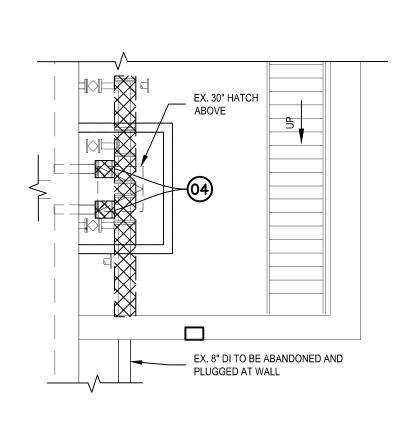
CITY OF FRANKLIN, INDIANA

**SLUDGE HOLDING TANK NO. 2 - POWER MODIFICATION PLAN** 

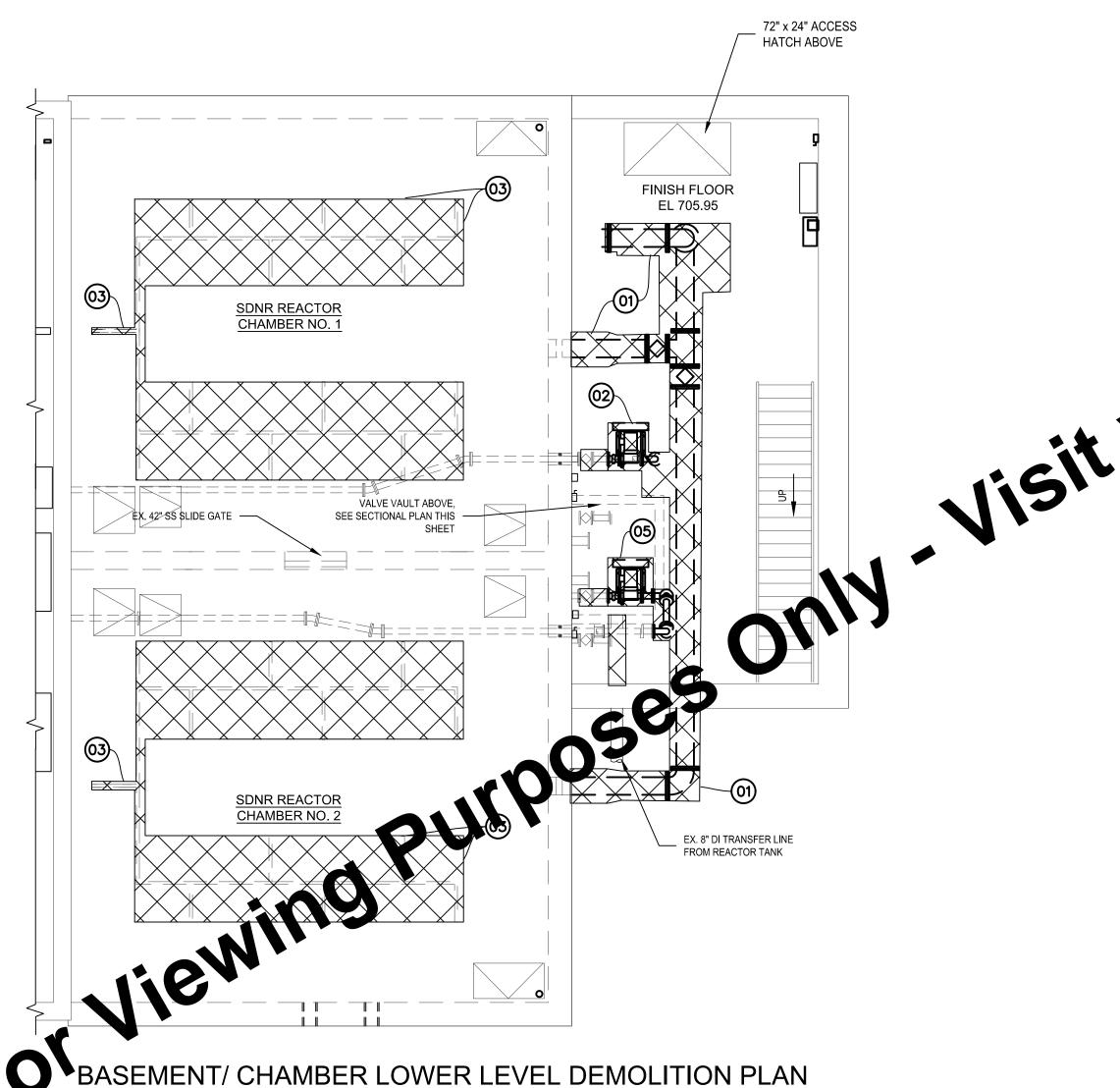
PAGE NO. 19

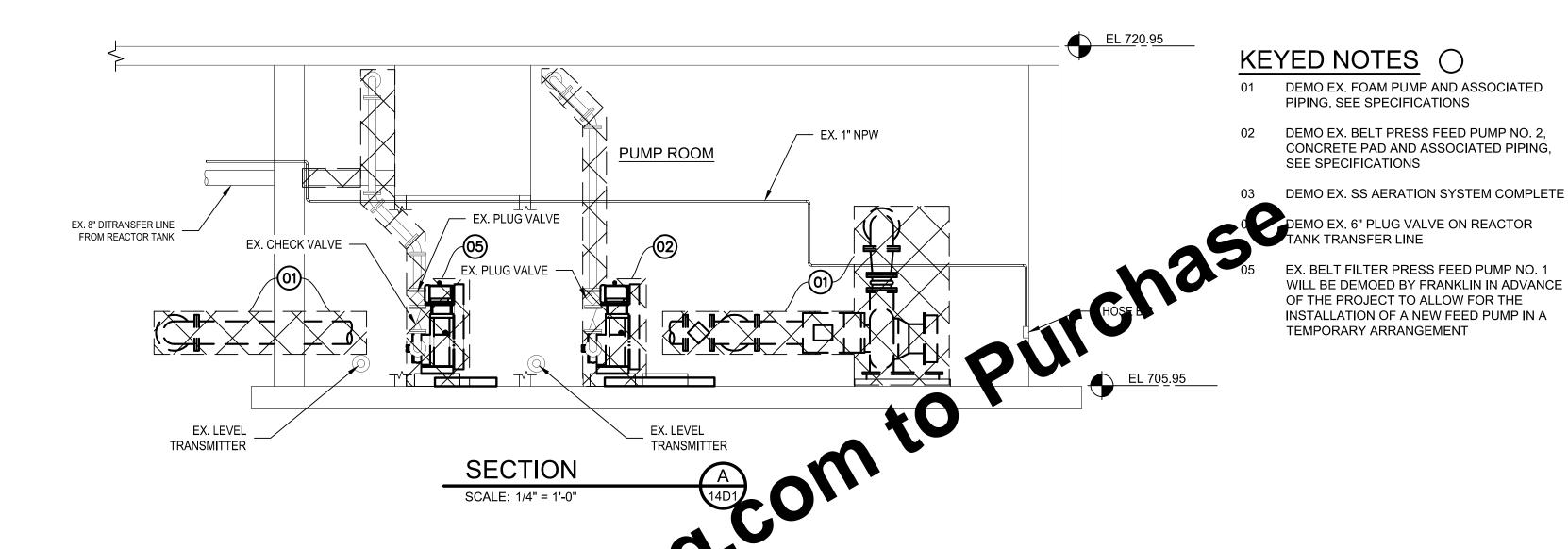


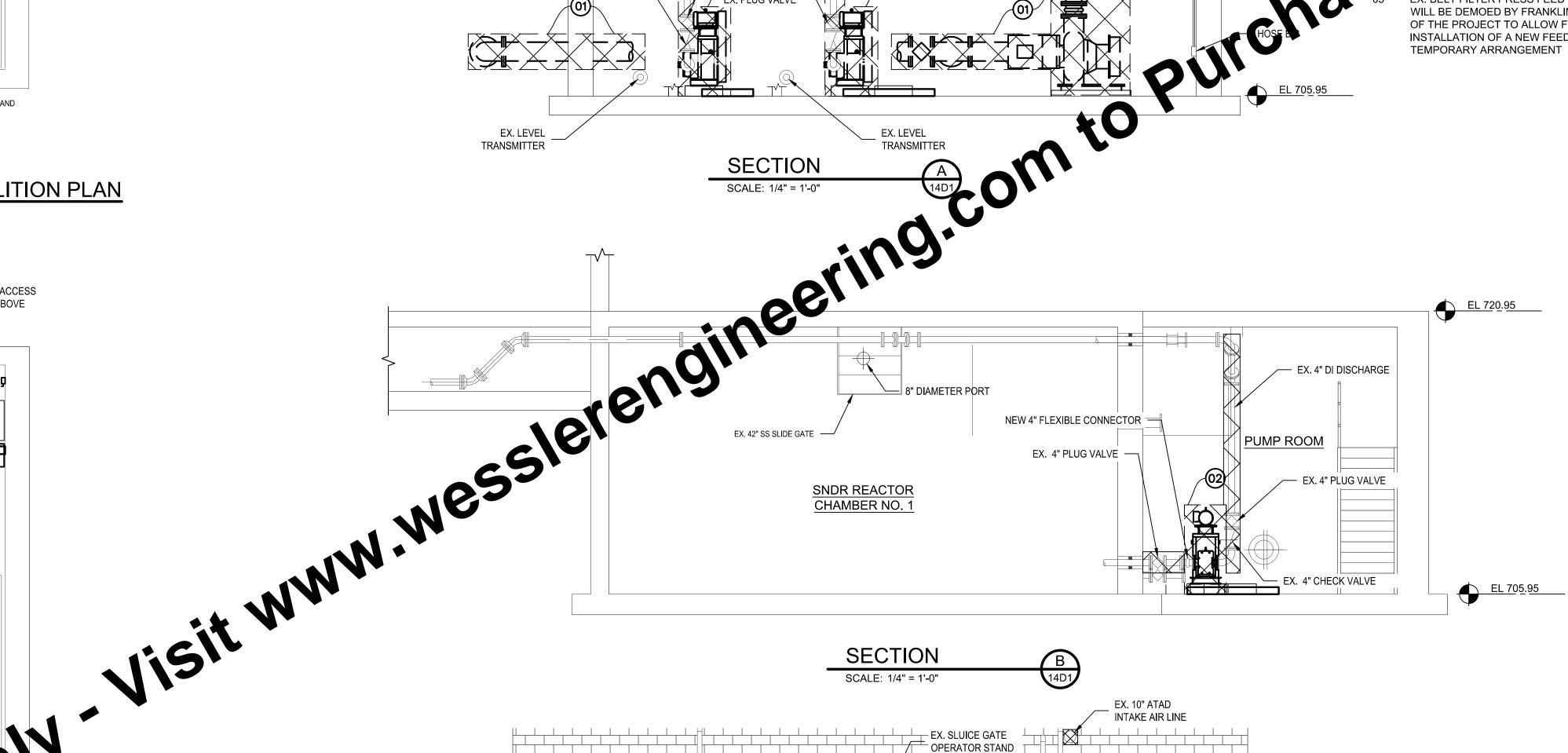


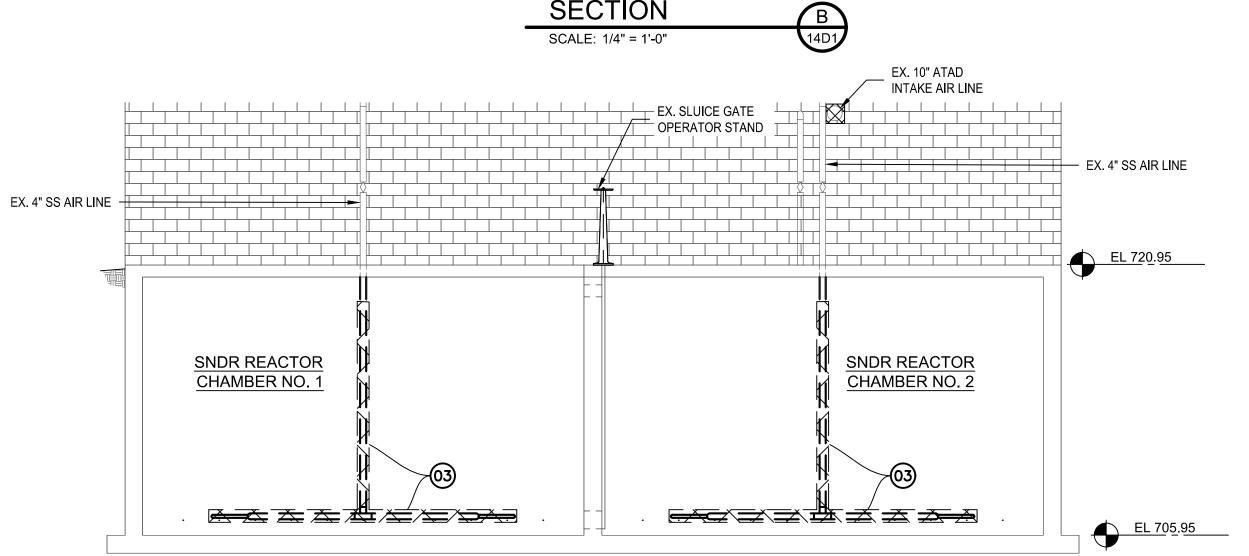


#### BASEMENT/ CHAMBER UPPER LEVEL DEMOLITION PLAN SCALE: 3/16" = 1'-0"









**LEGEND** 

EXISTING FEATURES TO REMAIN DEMOLISH EXISTING FEATURES

> \* VERIFY ELEVATION AND/OR DIMENSION WITH EQUIPMENT MANUFACTURER.

**SECTION**  $\bigcirc$ 14D1

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**WASTEWATER TREATMENT PLANT EXPANSION** 

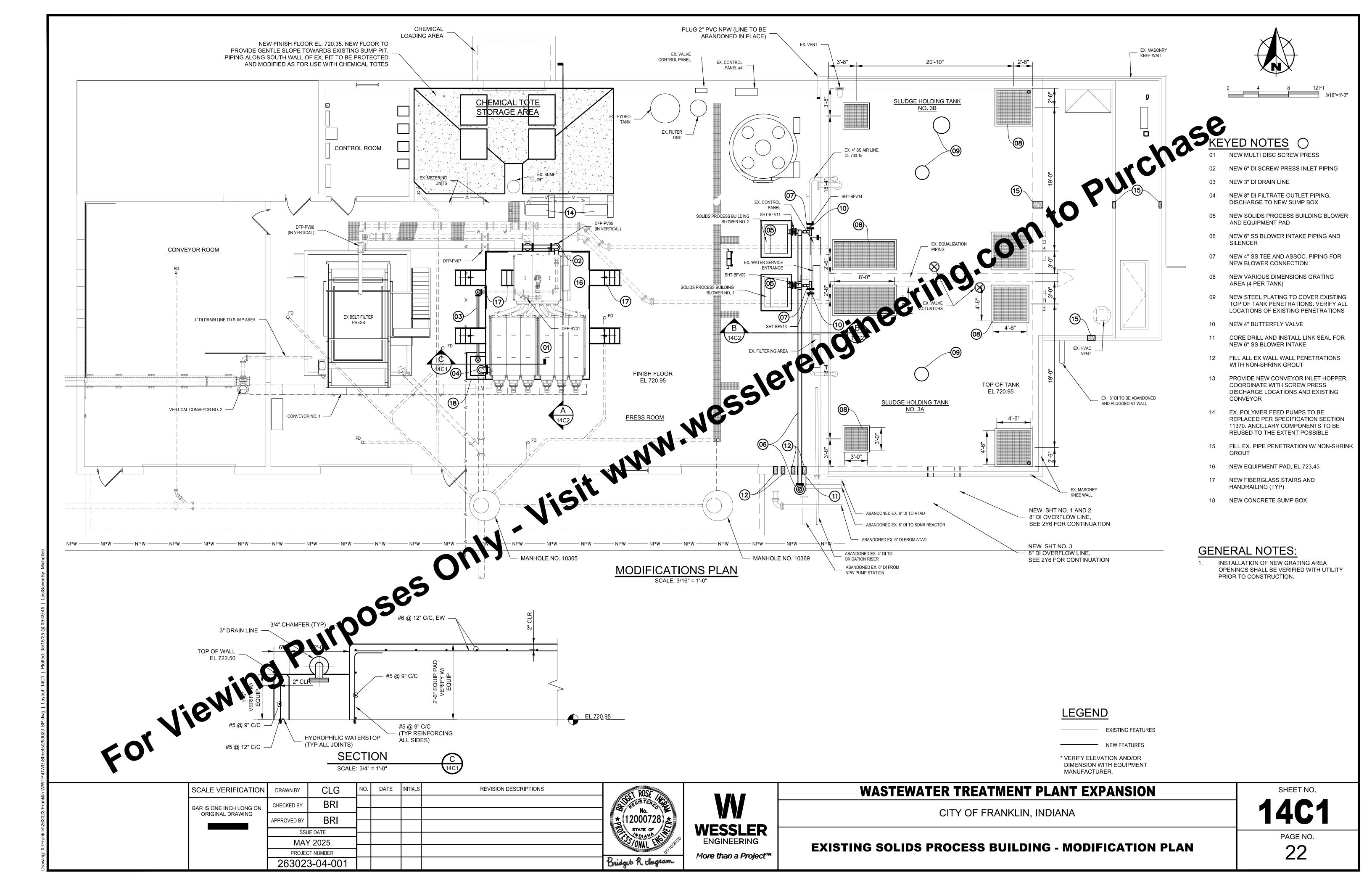
CITY OF FRANKLIN, INDIANA

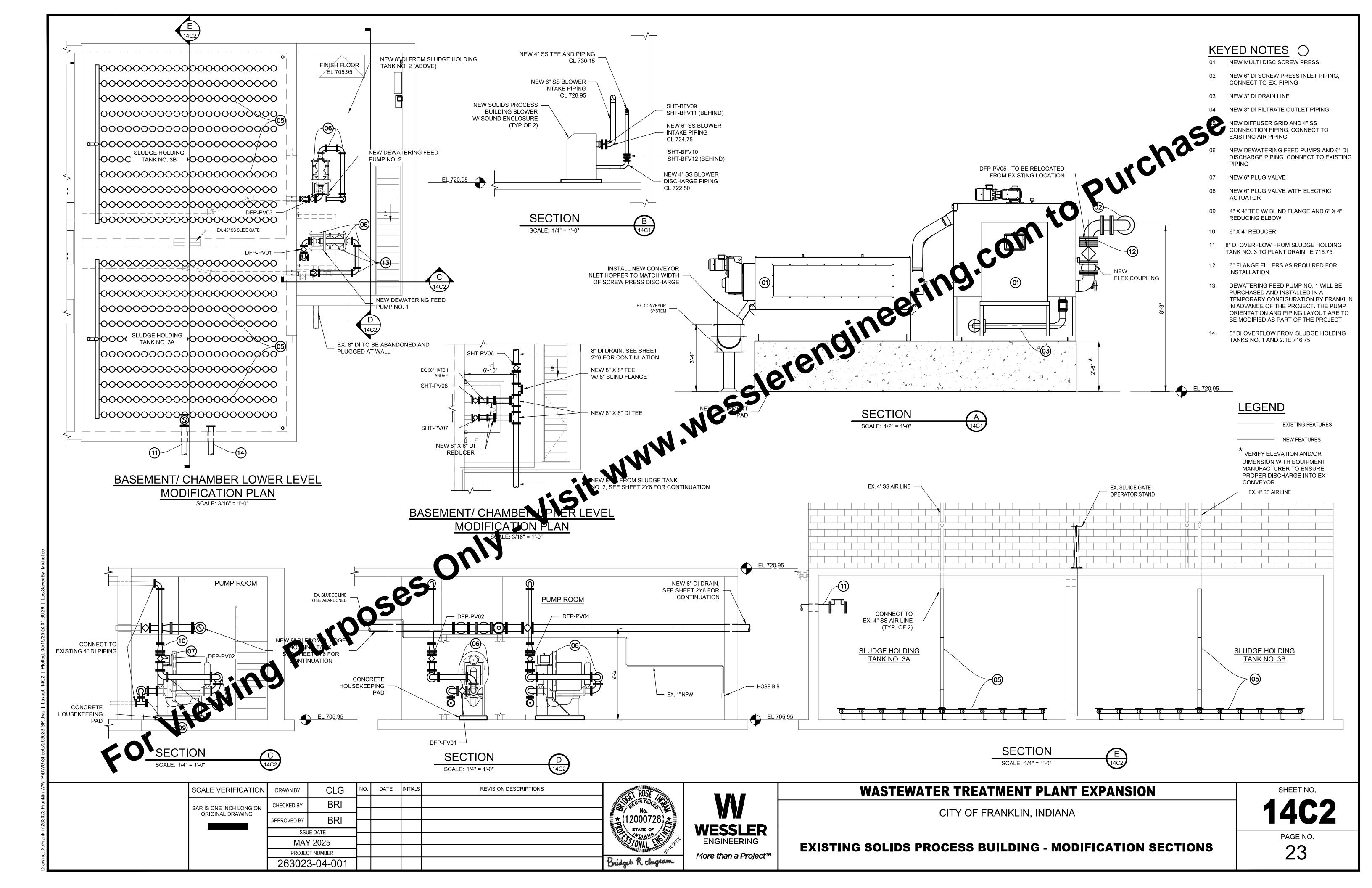
14D2

**EXISTING SOLIDS PROCESS BUILDING - DEMOLITION SECTIONS** 

PAGE NO.

21





## 0 2 4 8FT

#### **GENERAL NOTES:**

- A. SEE SHEET 1M1 FOR SYMBOLS AND ABBREVIATIONS.
- B. LABEL ALL EQUIPMENT AND CONTROL DEVICES.

#### **#** DEMOLITION NOTES:

- 1. REMOVE DAMPER AND PROVIDE A SHEETMETAL BLANK-OFF PLATE OVER REMAINING OPENING IN THE WALL WITH TWO LAYERS OF 2" RIGOTO ULATED THE BACK OF THE BLANK-OFF PLATE.
- 2. EXISTING UNIT HEATER TO REMAIN.
- 3. REMOVE EXISTING CEILING MOUNTED EXHAUST FOR AND A SOCIATED DUCTWOOD PATCH AND REPAIR CEILING.
- REMOVE EXISTING DUCT BACK TO THIS POLIT.

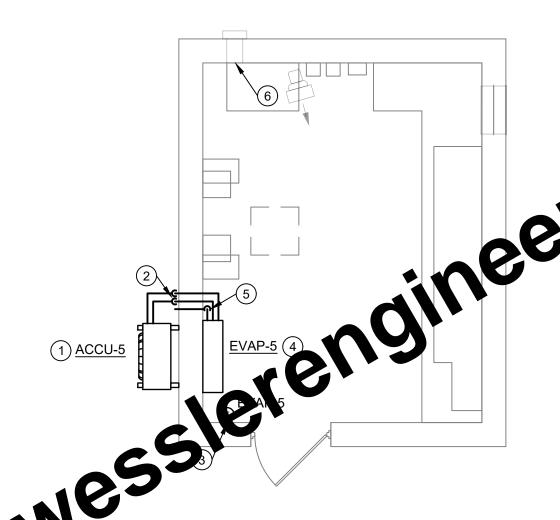
#### # PLAN NOTE

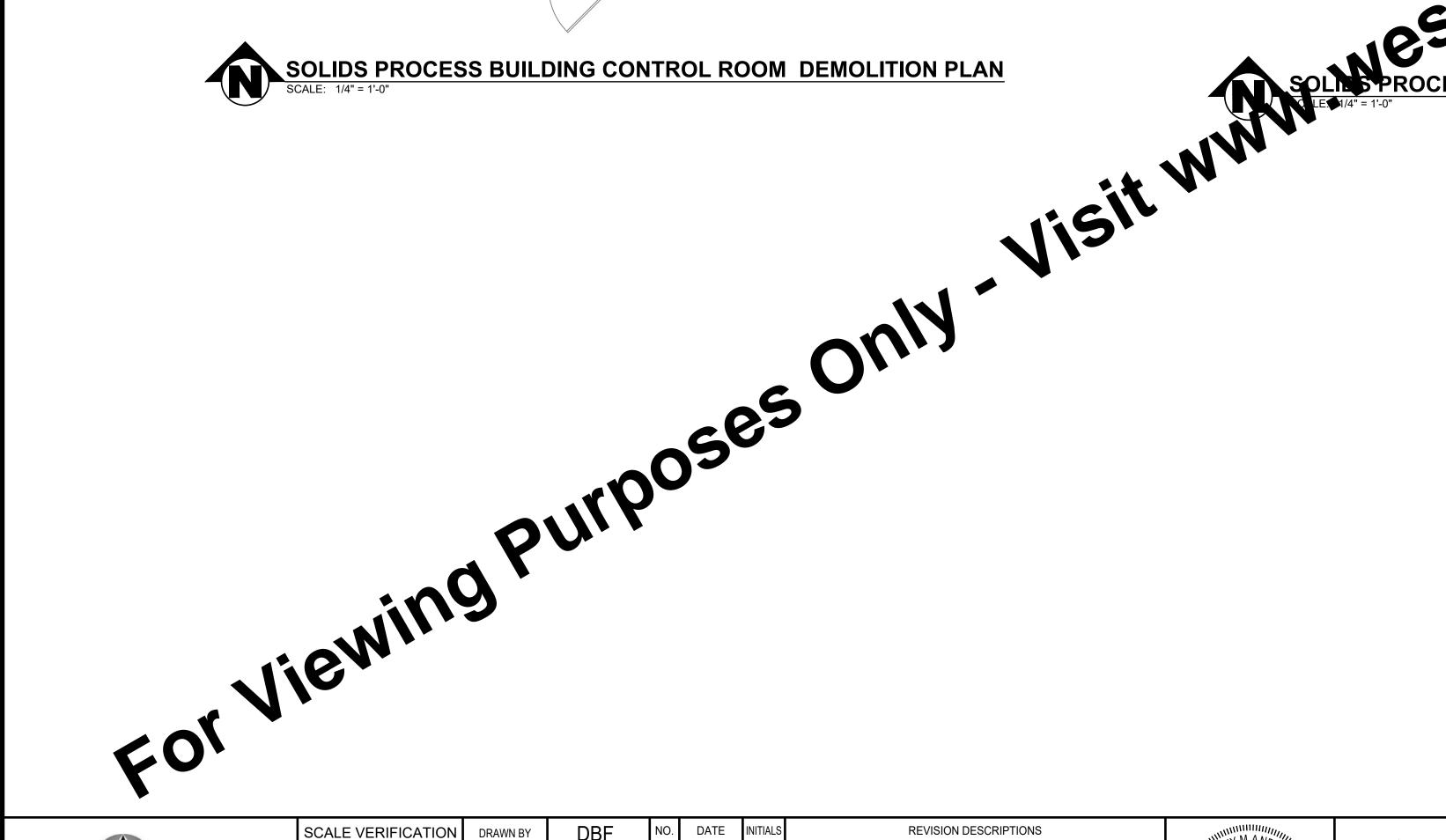
- 1. MOUNT ACCU-5 NA BRACKET ON THE EXTERIOR WALL AT 4'-0" ABOV
- 2. REF ER NT LIQUID AND
- 2. REFORER NT LIQUID AND SUCTION PIPING SLEEVED AND SEALED THRU
  EX ERICR WALL. TRIM REFRIGERANT LINE SET WHERE THERE IS NO EXCES

  PLOCED INSIDE OR OUTSIDE THE BUILDING. FULLY INSULATE THE
- FIRGERANT SUCTION PIPING WITH 3/4" CLOSED CELL FOAM INSULATION. ALL PING EXPOSED OUTDOORS SHALL BE RUN IN A 6" ENCLOSURE TO PROTECT INSULATION FROM UV DETERIORATION.

  MOUNT MINLSPLIT SYSTEM CONTROLLER ON MASONRY WALL AT +4'-0" AFE. ALL
- CONTROL WIRING BETWEEN CONTROLLER AND EVAPORATOR SHALL BE RAN IN RIGID CONDUIT RAN TIGHT TO WALLS AND COORDINATED WITH OTHER TRADES

  4. MOUNT INDOOR EVAPORATOR AT +7'-0" AFF ON MASONRY WALL.
- 5. EXTEND 3/4" COPPER CONDENSATE DRAIN PIPING DOWN WALL TO 12" ABOVE FINISHED FLOOR. EXTEND DRAIN THRU EXTERIOR WALL AND TERMINATE WITH 45 DEGREE ELBOW TURNED DOWN. SLEEVE AND SEAL PIPE THRU EXTERIOR WALL WEATHERTIGHT. INSULATE EXPOSED CONDENSATE DRAIN PIPING INSIDE
- 6. PROVIDE A SHEETMETAL BLANK-OFF PLATE OVER THE REMAINING OPENING IN THE WALL WITH TWO LAYERS OF 2" RIGID INSULATION ON THE BACK OF THE BLANK-OFF PLATE





SOLIDS PROCESS BUILDING CONTROL ROOM MODIFICATIONS PLAN

Applied

Engineering Services
75 Castle Creek Parkway N Drive, Suite 300 • Indianapolis, Indiana 46250
Tel: 317.810.4141 • Fax: 317.810.4140 • www.applied-e-s.com

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### WASTEWATER TREATMENT PLANT EXPANSION

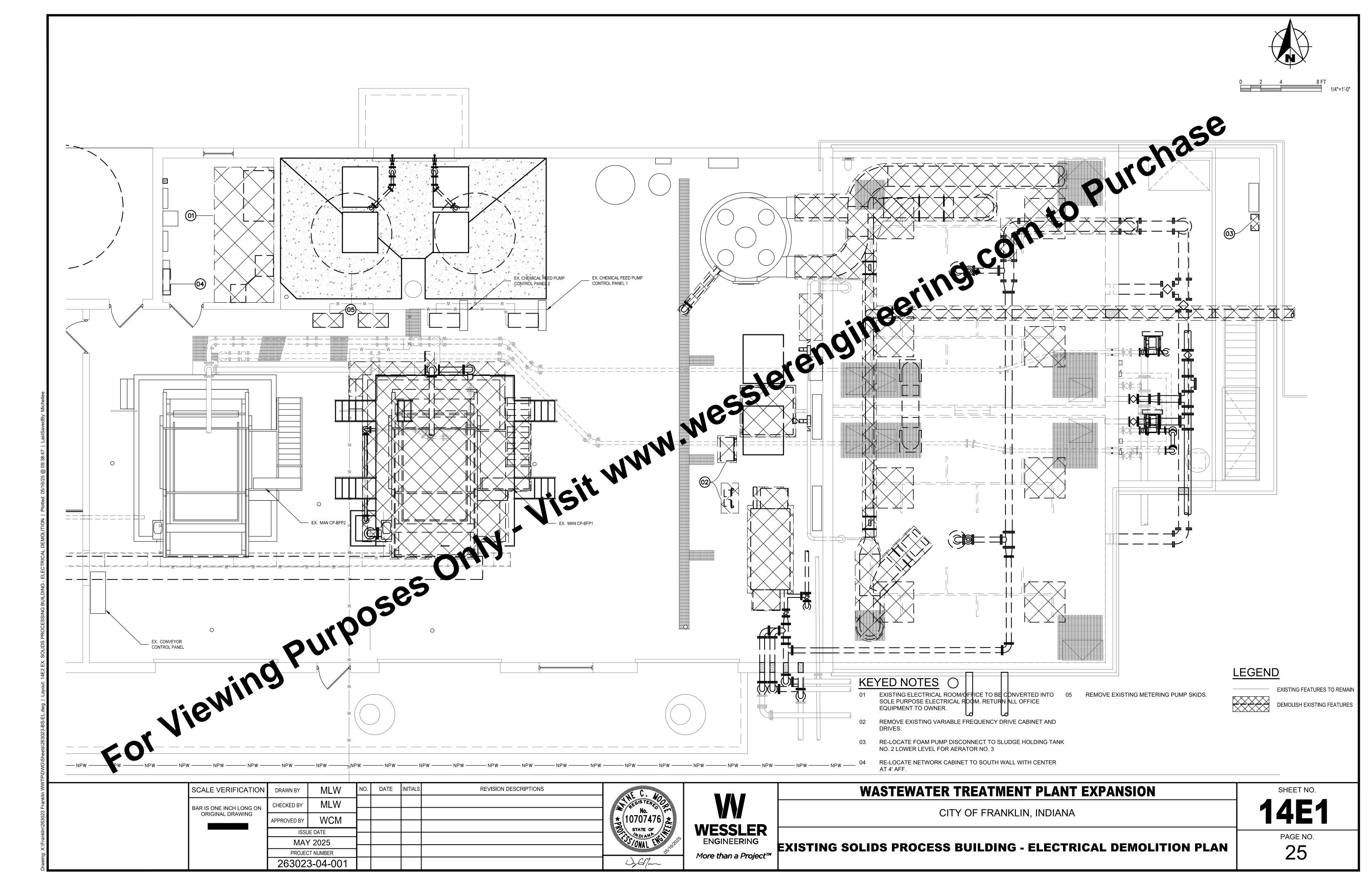
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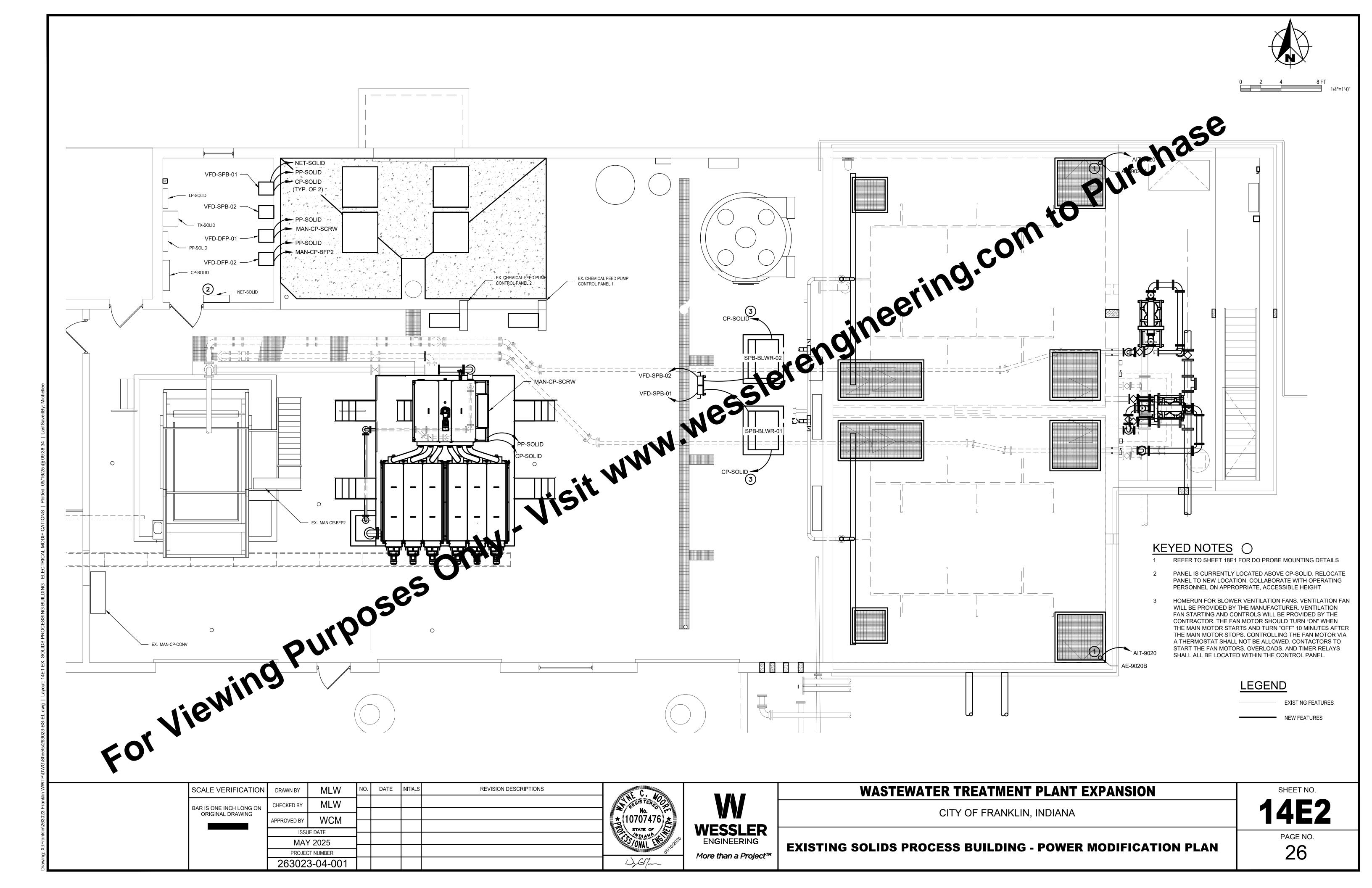
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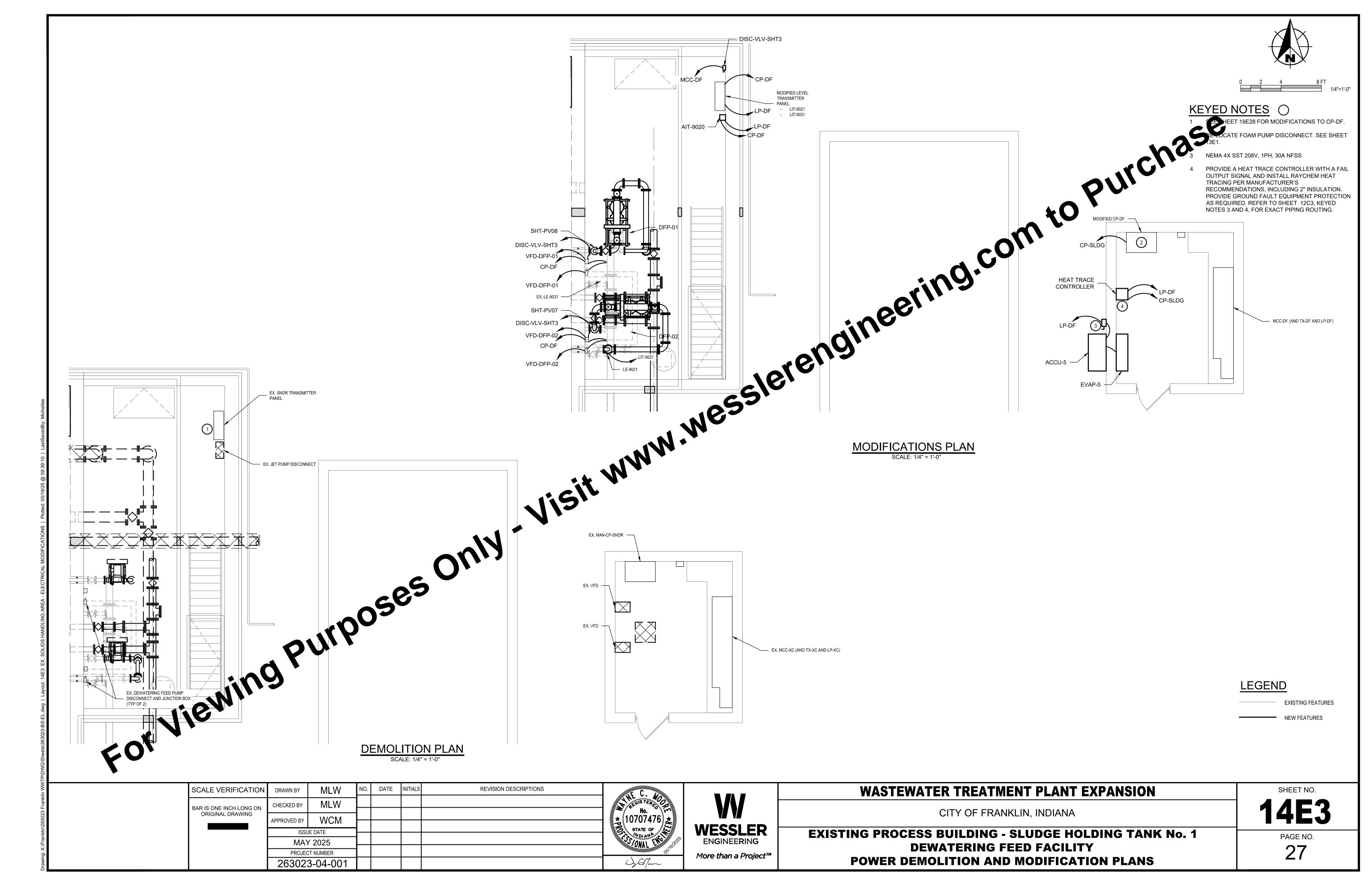
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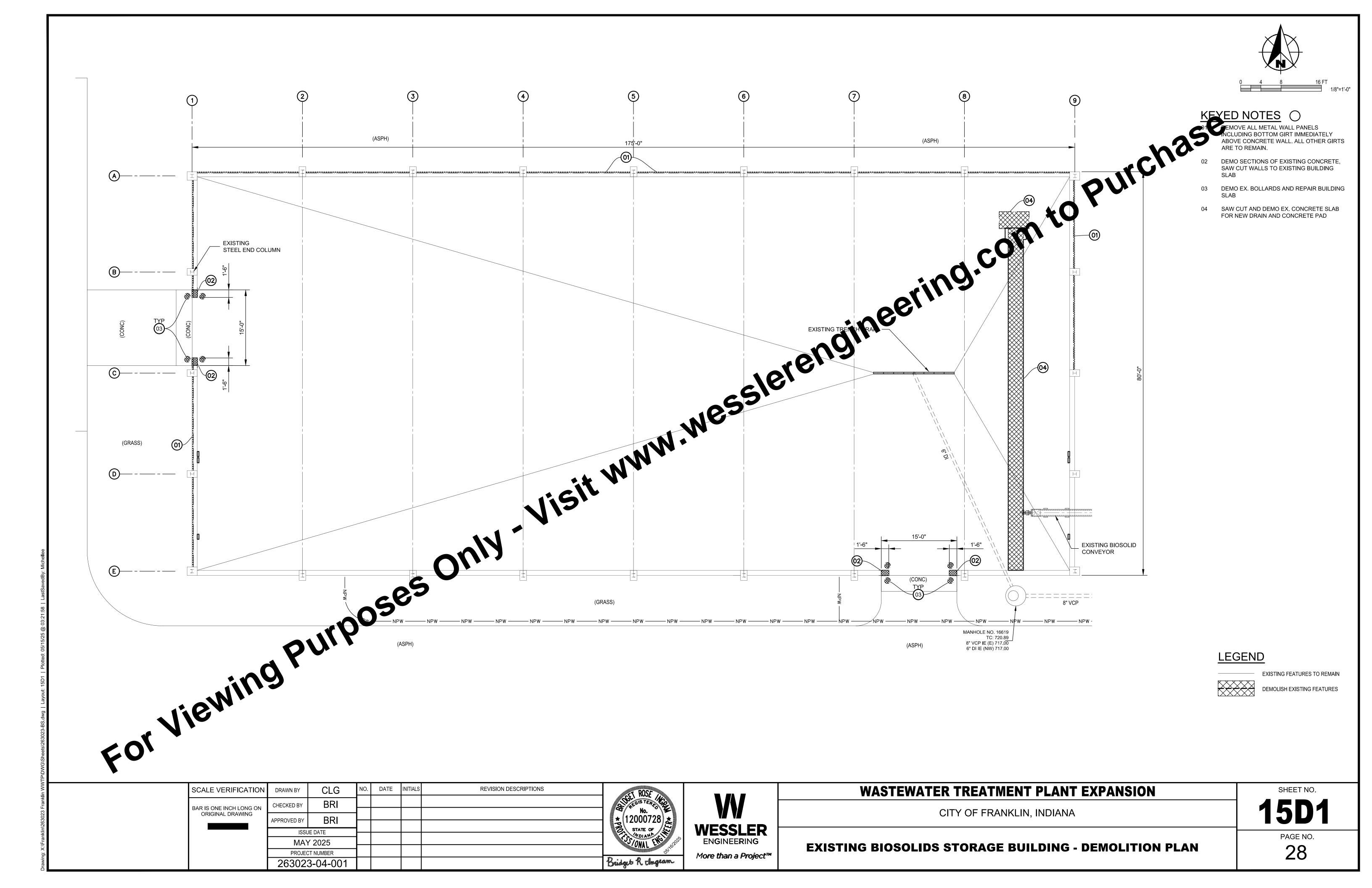
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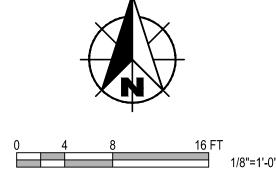
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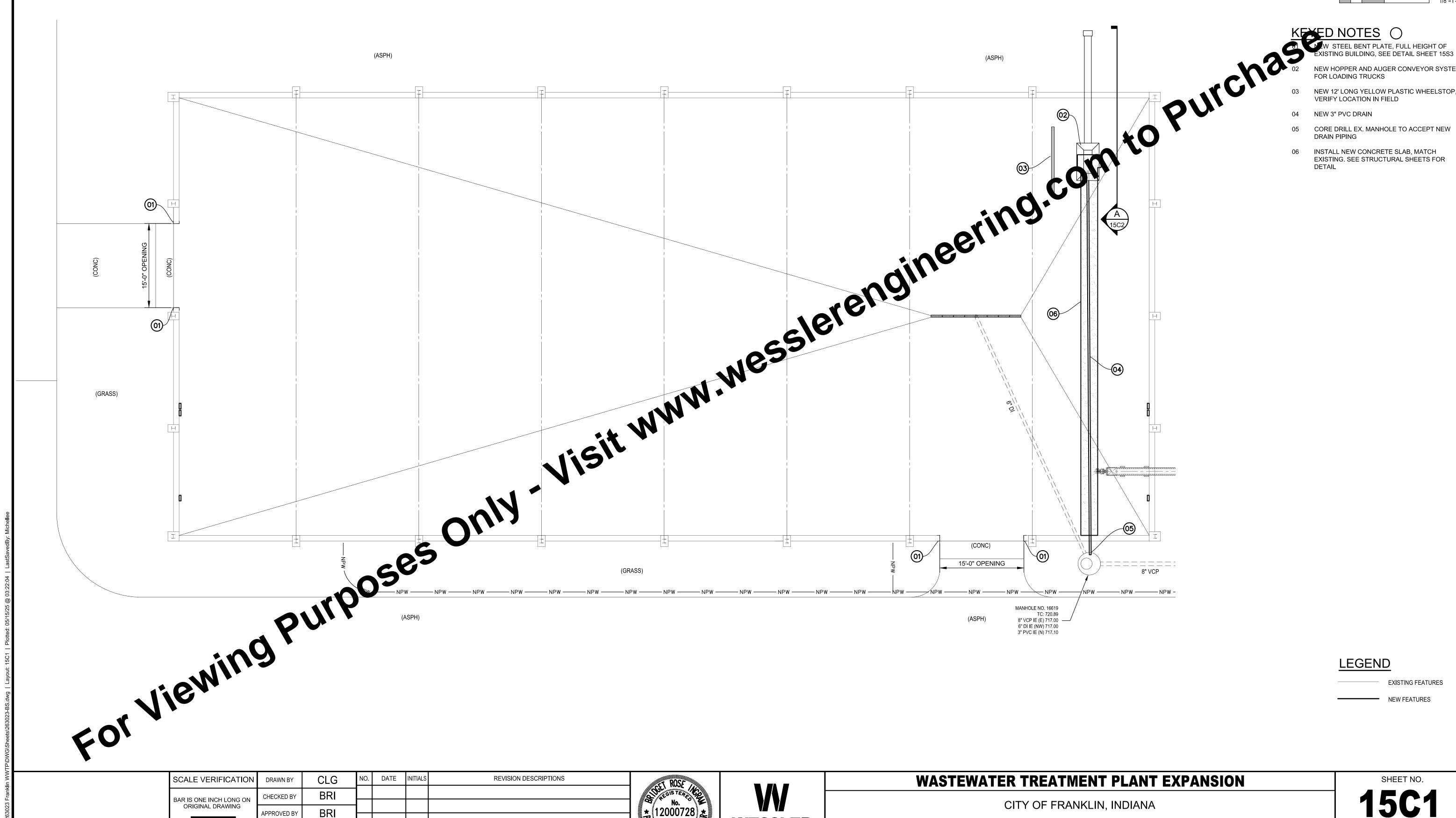












LEGEND **EXISTING FEATURES** 

NEW FEATURES

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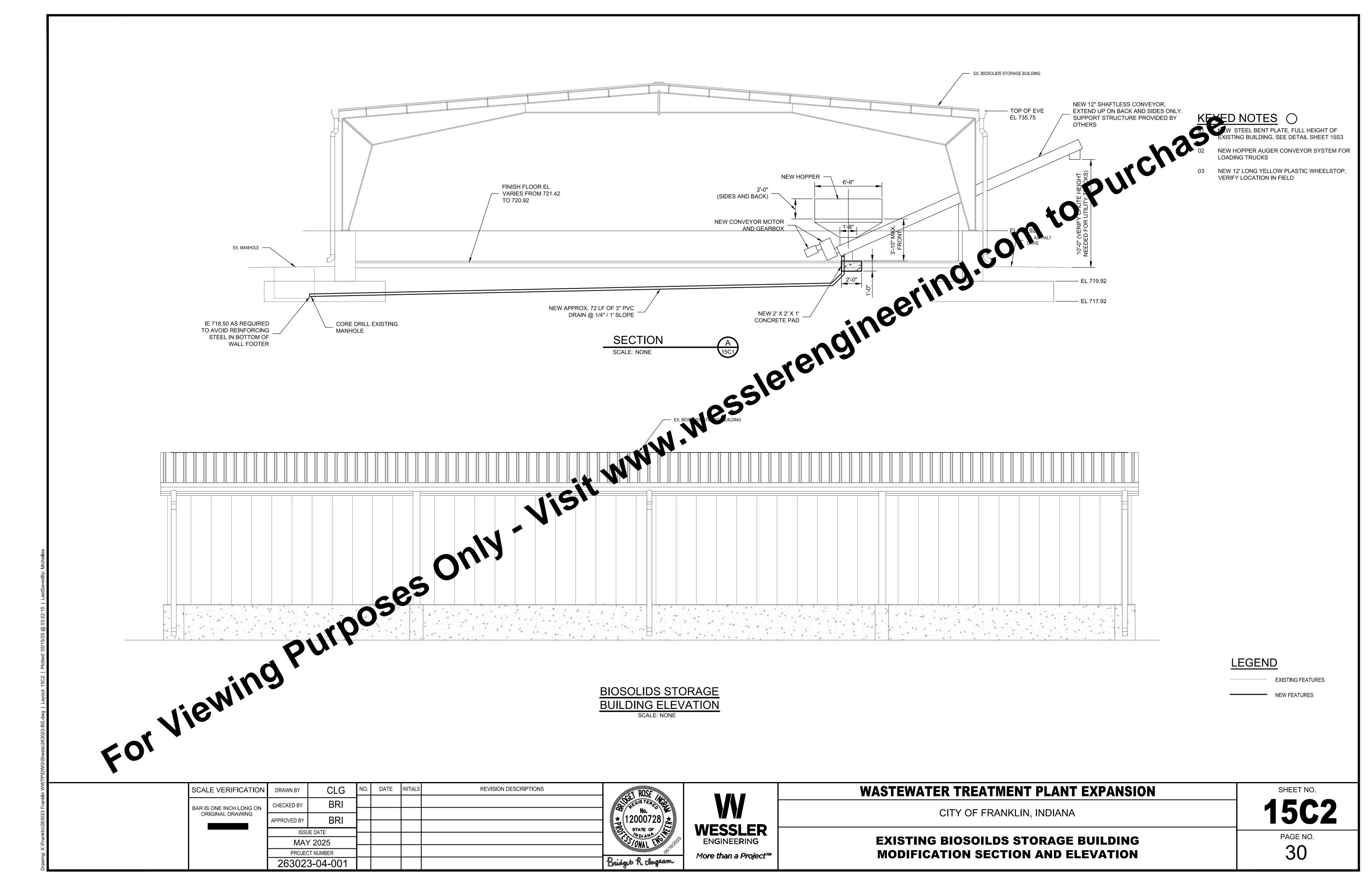
**WESSLER** ENGINEERING More than a Project™ WASTEWATER TREATMENT PLANT EXPANSION

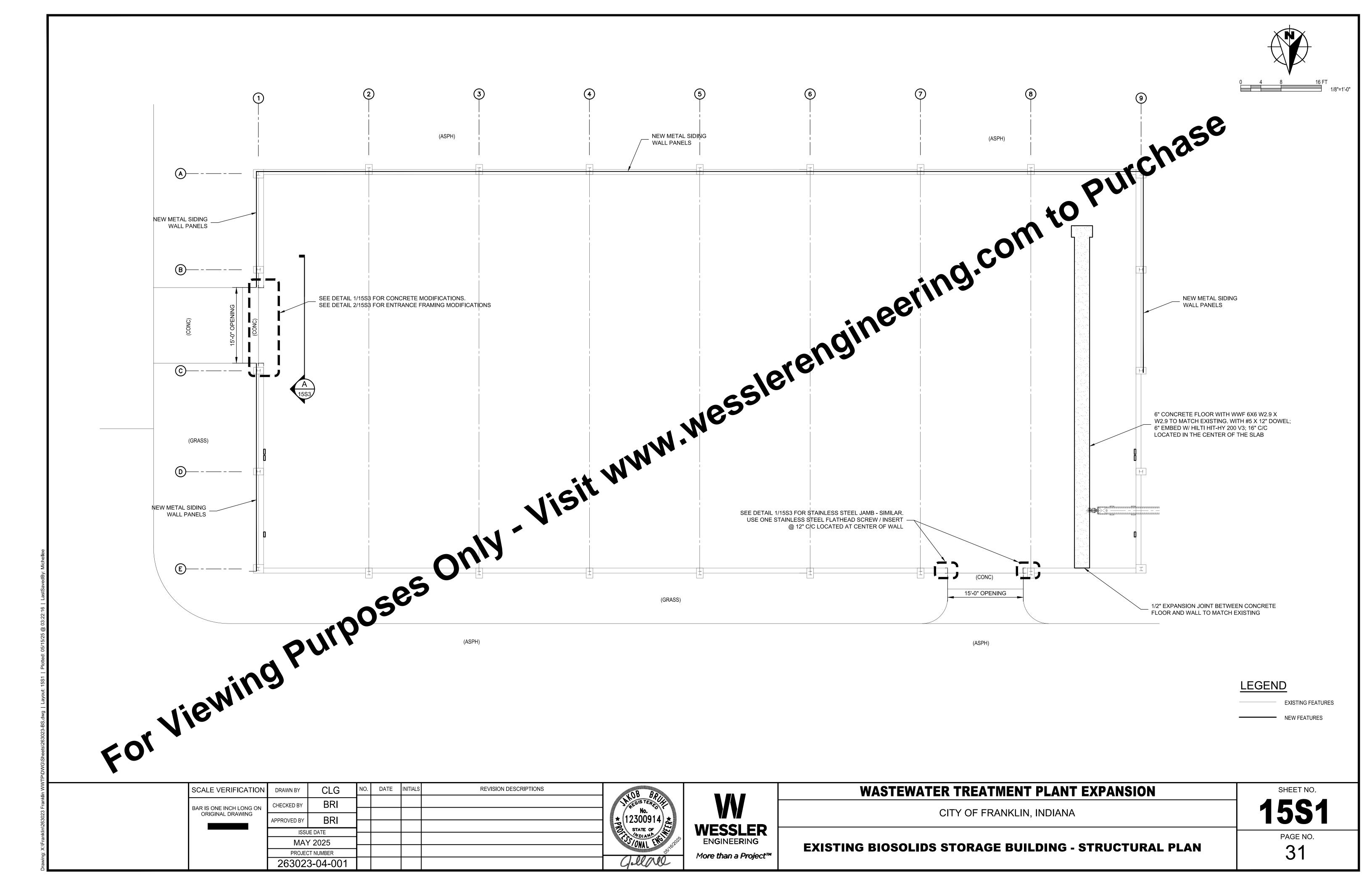
CITY OF FRANKLIN, INDIANA

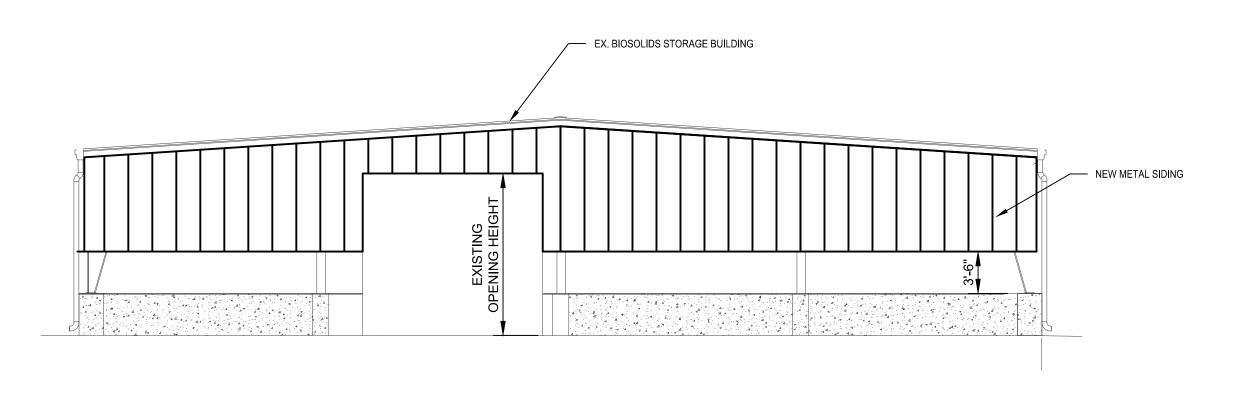
**EXISTING BIOSOLIDS STORAGE BUILDING - MODIFICATION PLAN** 

15C1

PAGE NO. 29



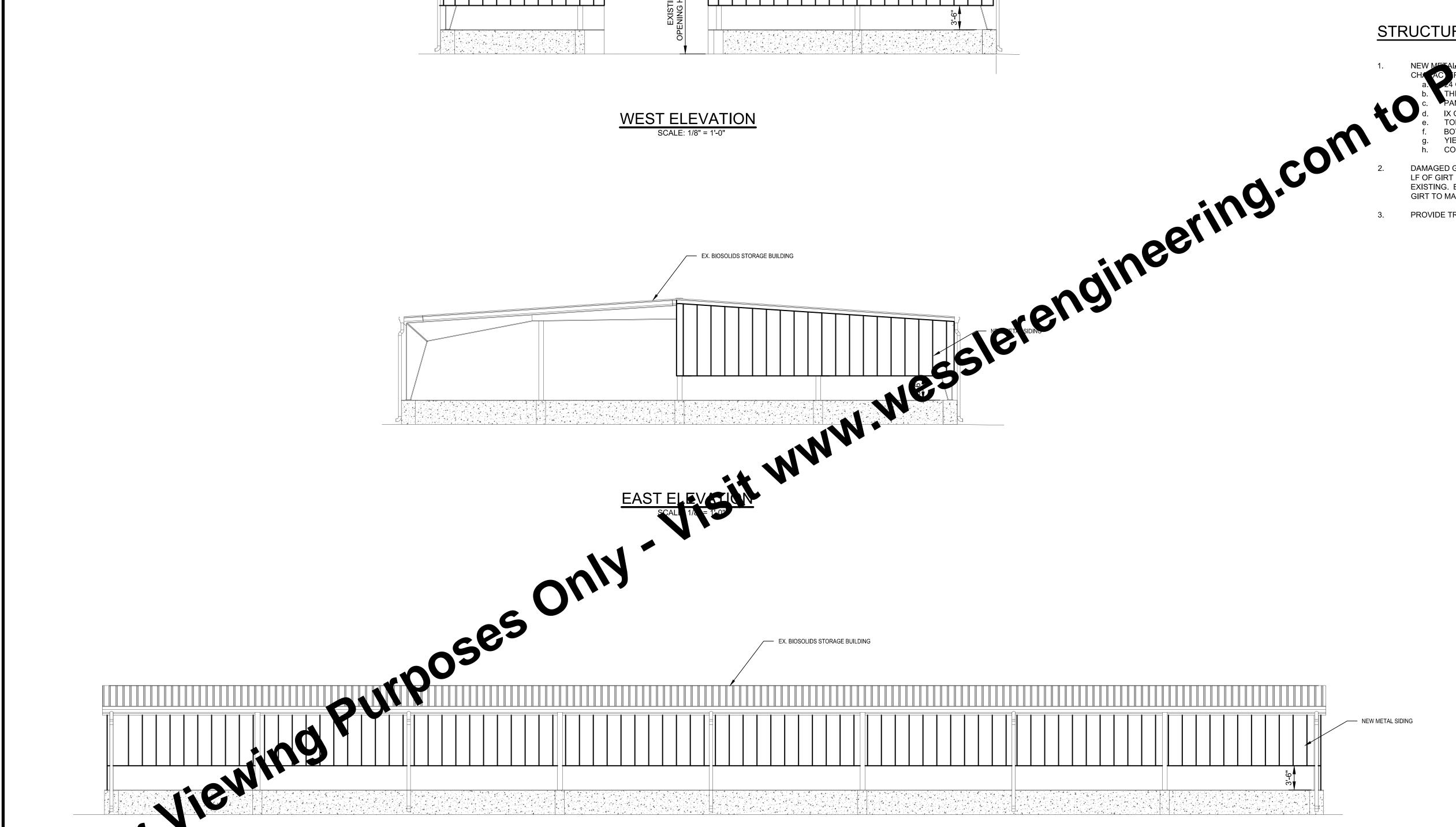




# STRUCTURAL NOTES 35

- BE NUCOR R-PANEL WITH THE FOLLOWING

  - IX GROSS = 0.0633 INCHES<sup>4</sup>
    TOP COMPRESSION, SX EFF = 0.0543 INCHES<sup>3</sup>
    BOTTOM COMPRESSION. SX EFF = 0.0588 INCHES<sup>3</sup>
- PROVIDE TRIM ELEMENTS FOR METAL SIDING.



LEGEND

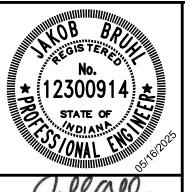
EXISTING FEATURES

NEW FEATURES

NORTH ELEVATION

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

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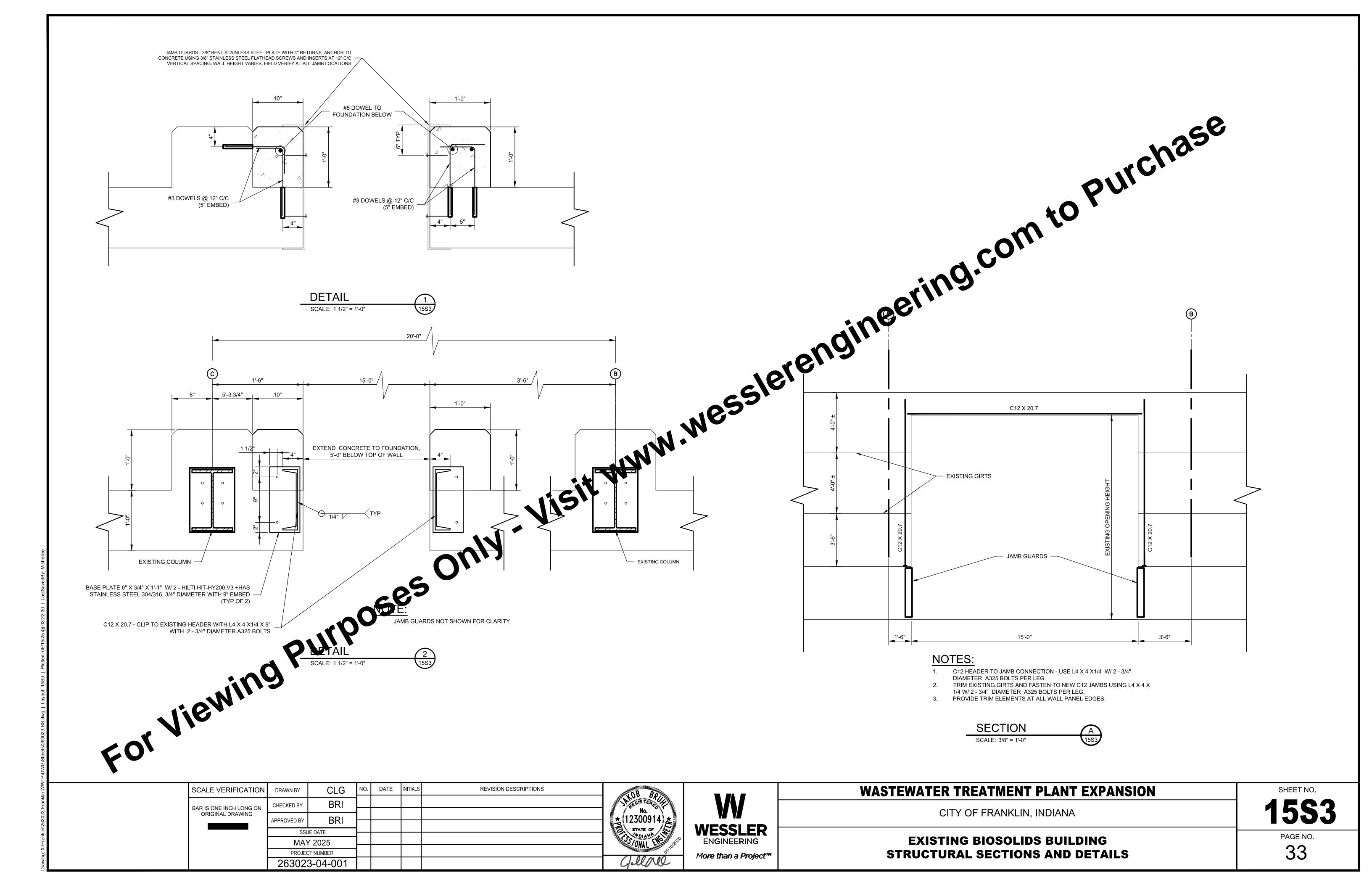
WESSLER ENGINEERING More than a Project™ WASTEWATER TREATMENT PLANT EXPANSION

CITY OF FRANKLIN, INDIANA

**EXISTING BIOSOLIDS STORAGE BUILDING - STRUCTURAL ELEVATIONS** 

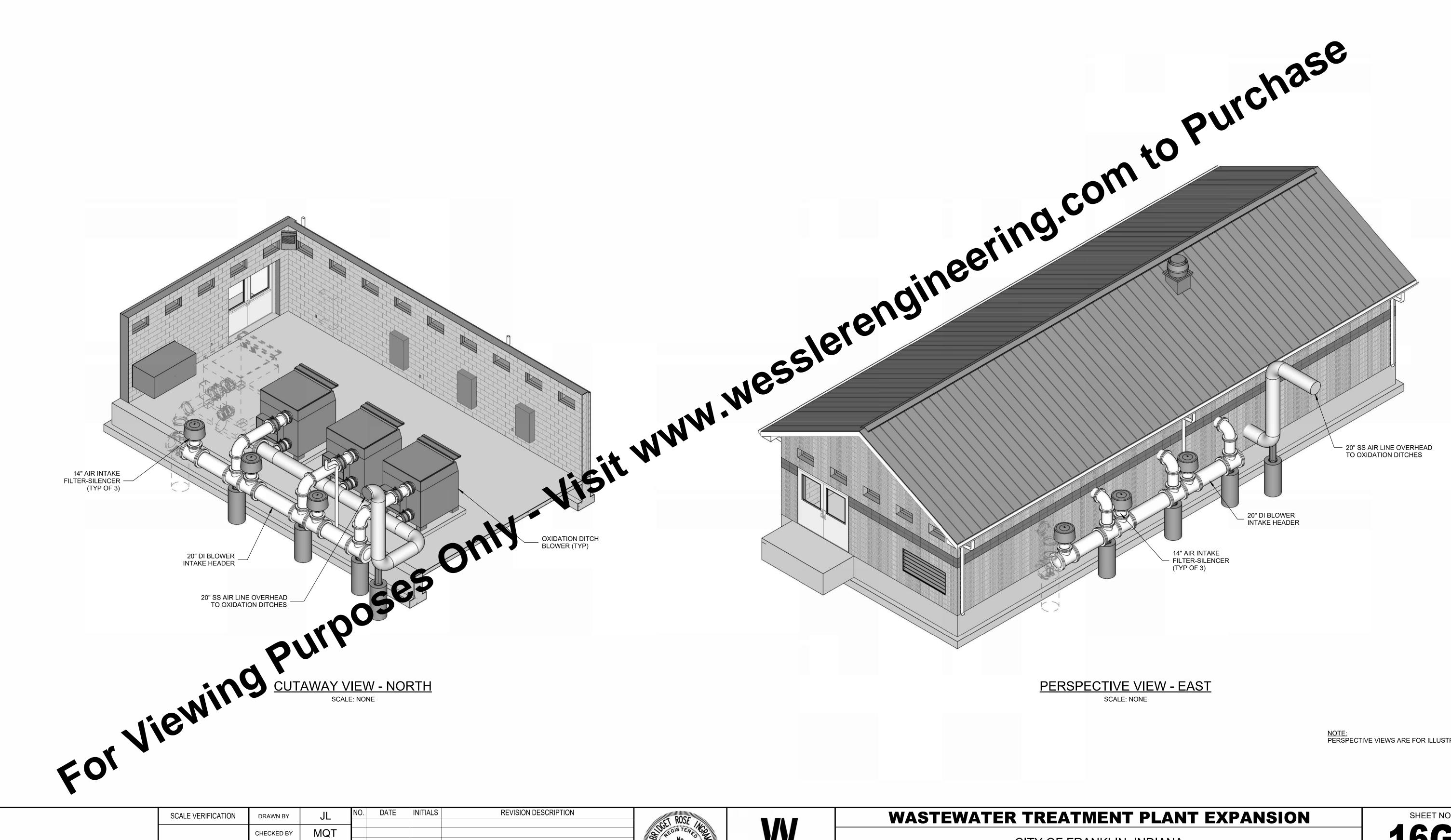
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NOTE: PERSPECTIVE VIEWS ARE FOR ILLUSTRATION ONLY.

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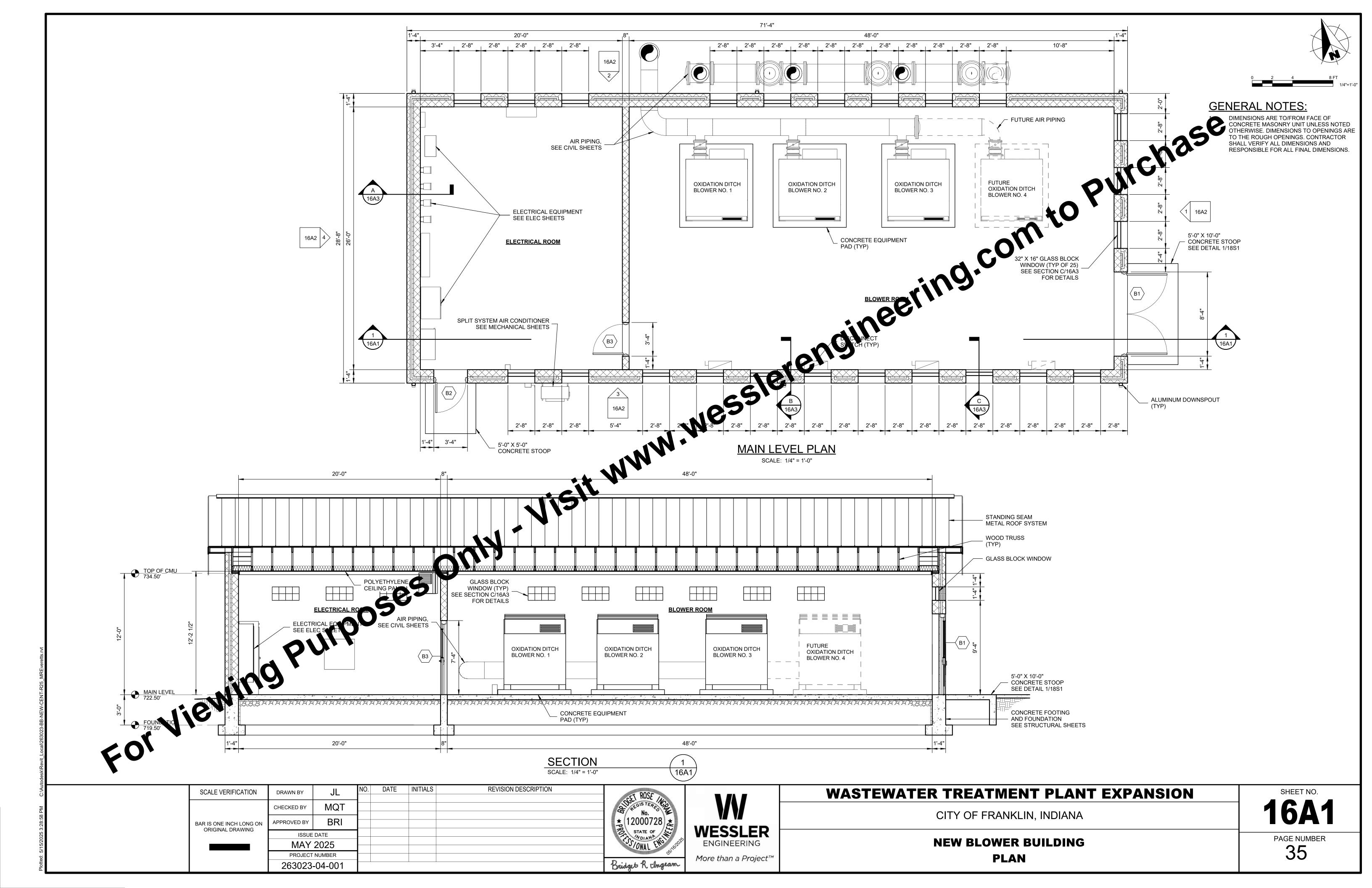
<b>WASTEWATER</b>	TREATMENT	<b>PLANT</b>	<b>EXPANSION</b>
	·		

CITY OF FRANKLIN, INDIANA

**NEW BLOWER BUILDING** PERSPECTIVE VIEWS

16G1

PAGE NUMBER 34



#### **GENERAL NOTES:**

CONTRACTOR IS TO MATCH ALL EXTERIOR ARCHITECTURAL FEATURES WITH EXISTING BUILDINGS, AS APPROVED BY OWNER.

16A2

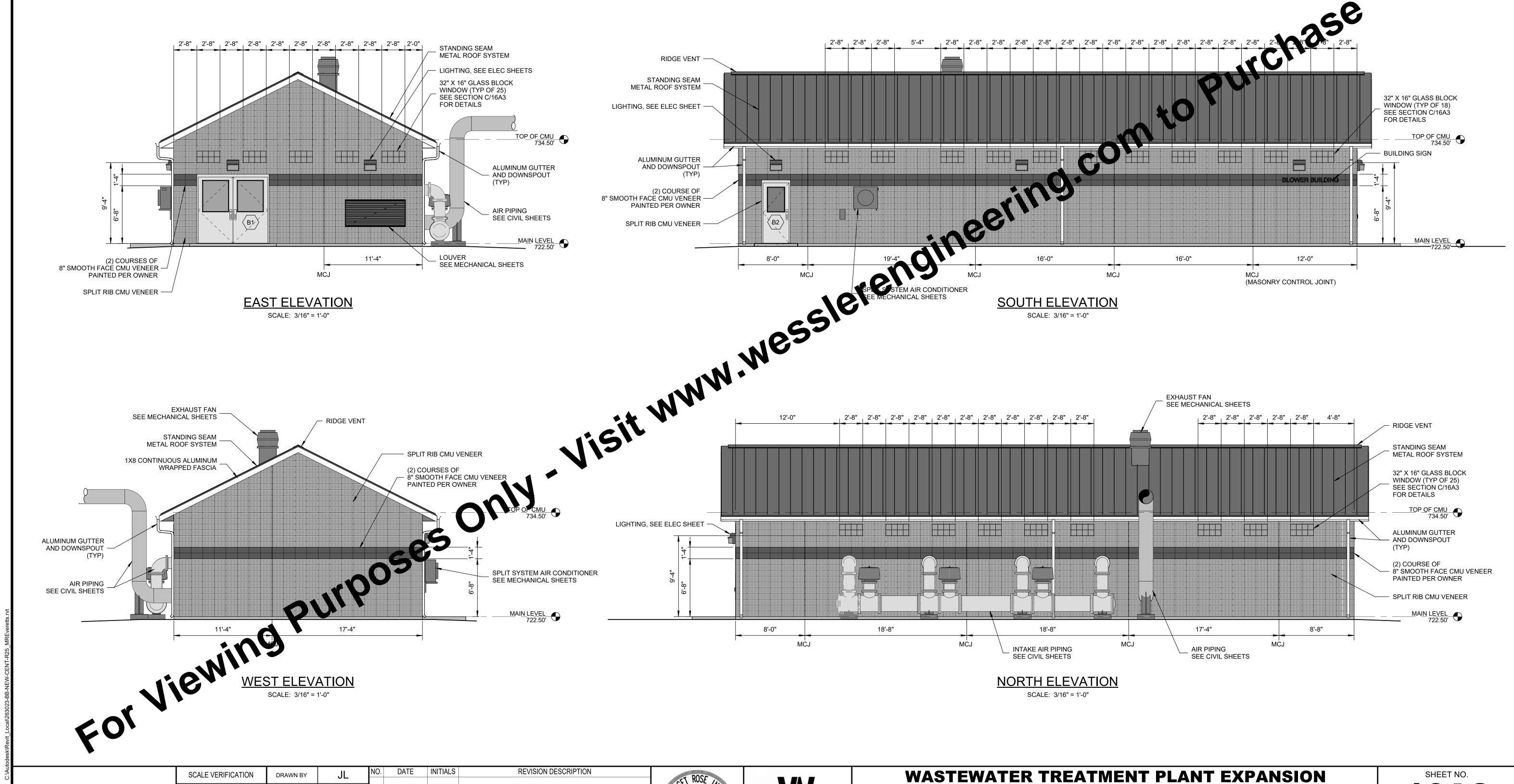
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36

CITY OF FRANKLIN, INDIANA

**NEW BLOWER BUILDING** 

**ELEVATIONS** 



No.

12000728 \*

STATE OF

NOIANA COMMITTEE OF

Bridget R. chageam

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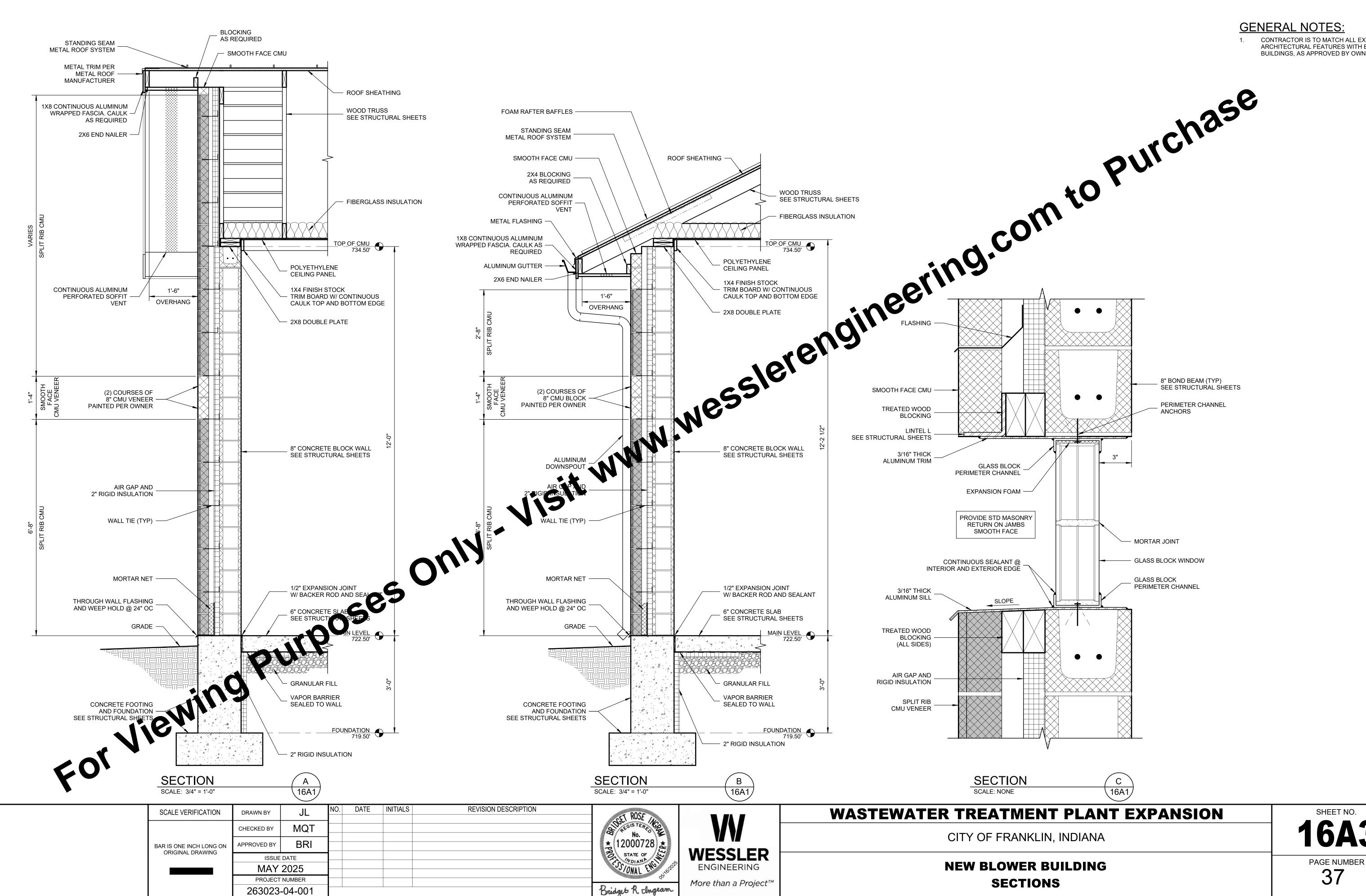
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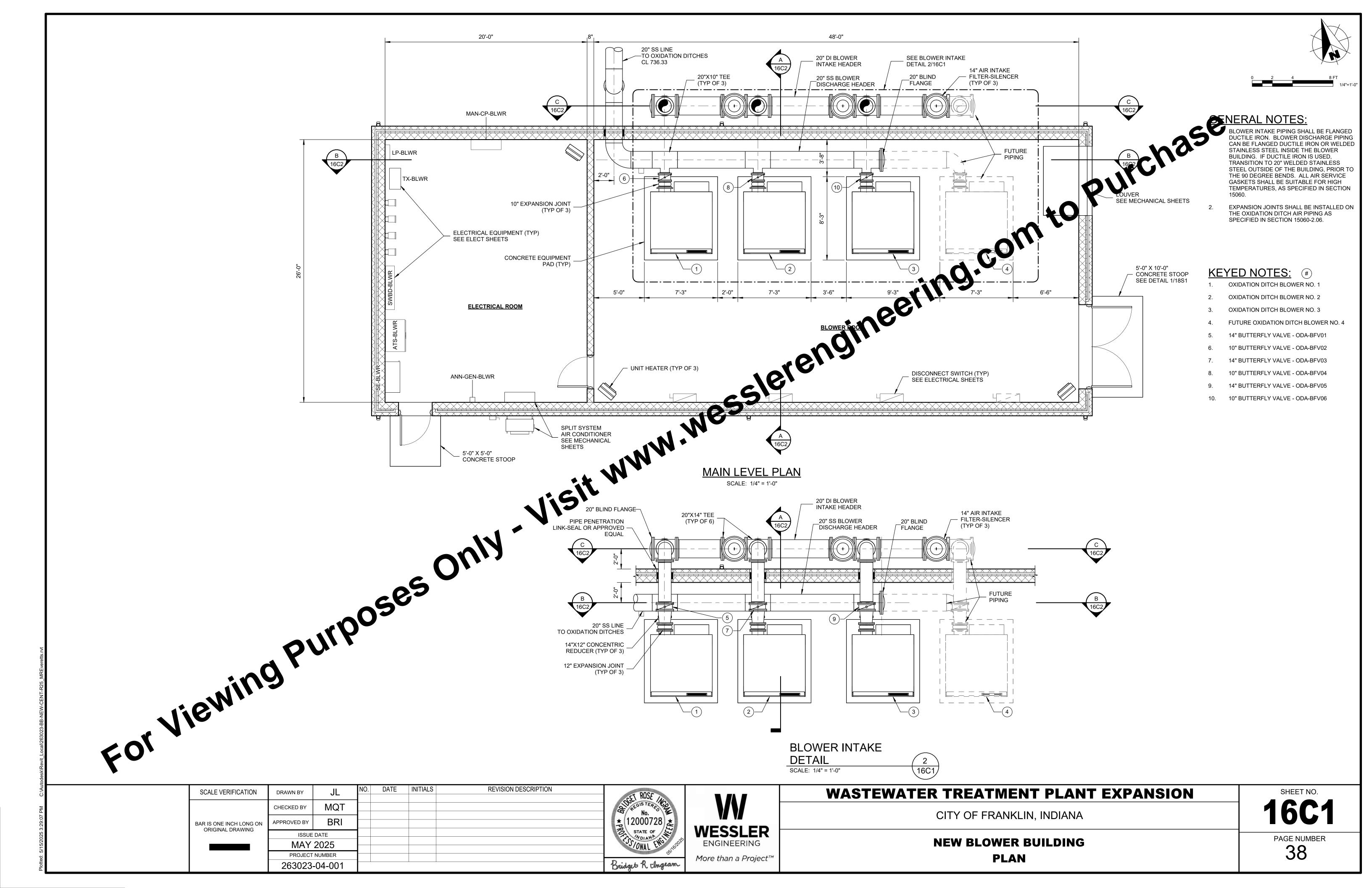
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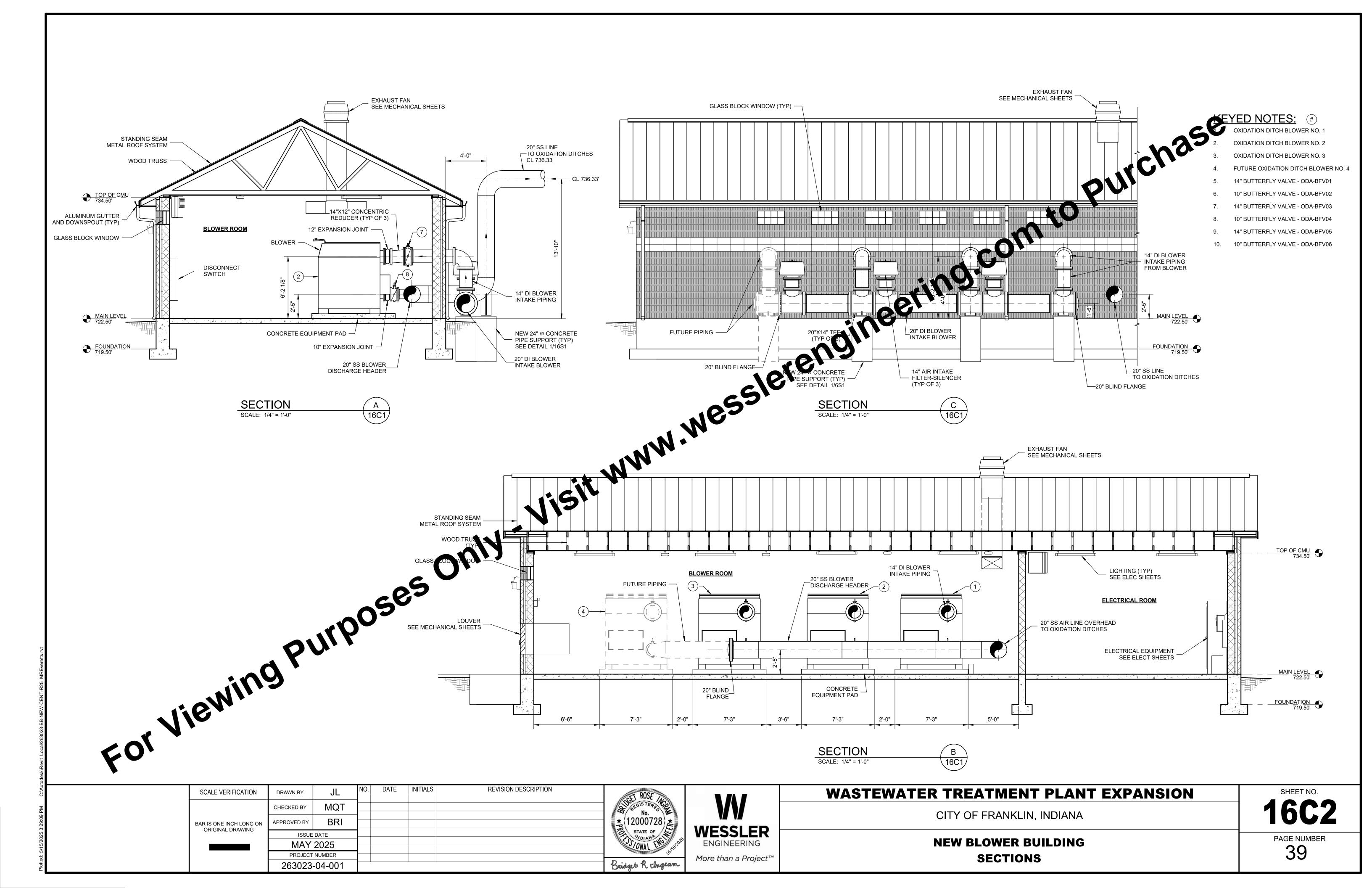
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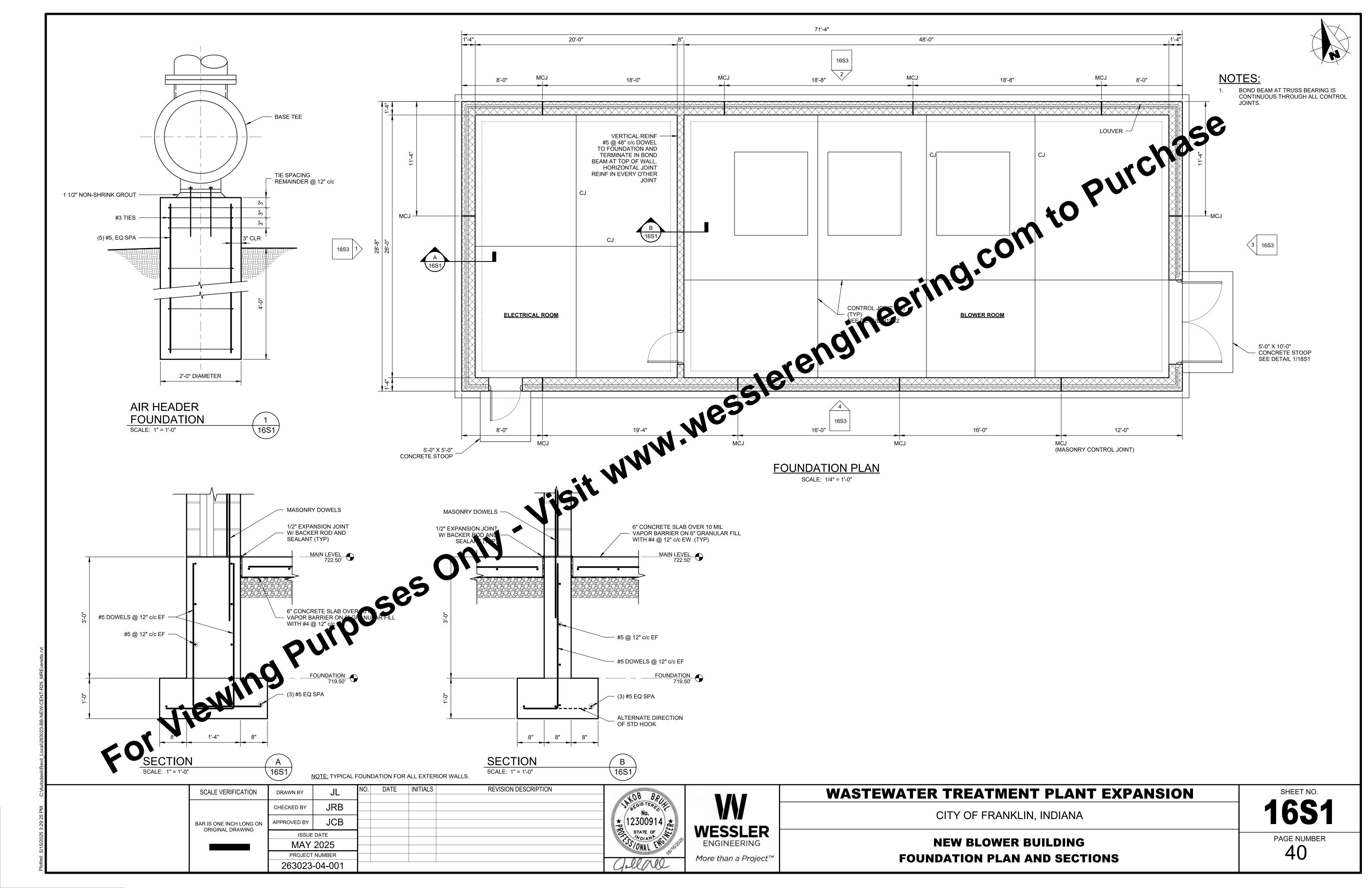
ORIGINAL DRAWING

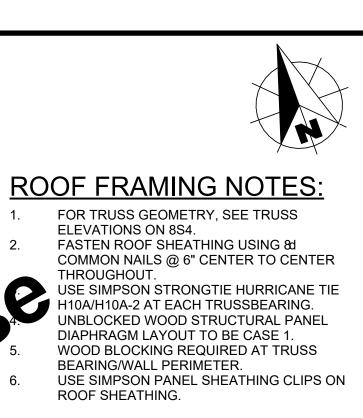
# **GENERAL NOTES:** CONTRACTOR IS TO MATCH ALL EXTERIOR ARCHITECTURAL FEATURES WITH EXISTING BUILDINGS, AS APPROVED BY OWNER. PROVIDE STD MASONRY RETURN ON JAMBS SMOOTH FACE MORTAR JOINT **GLASS BLOCK WINDOW CONTINUOUS SEALANT @** INTERIOR AND EXTERIOR EDGE GLASS BLOCK PERIMETER CHANNEL SLOPE **SECTION** SCALE: NONE SHEET NO.



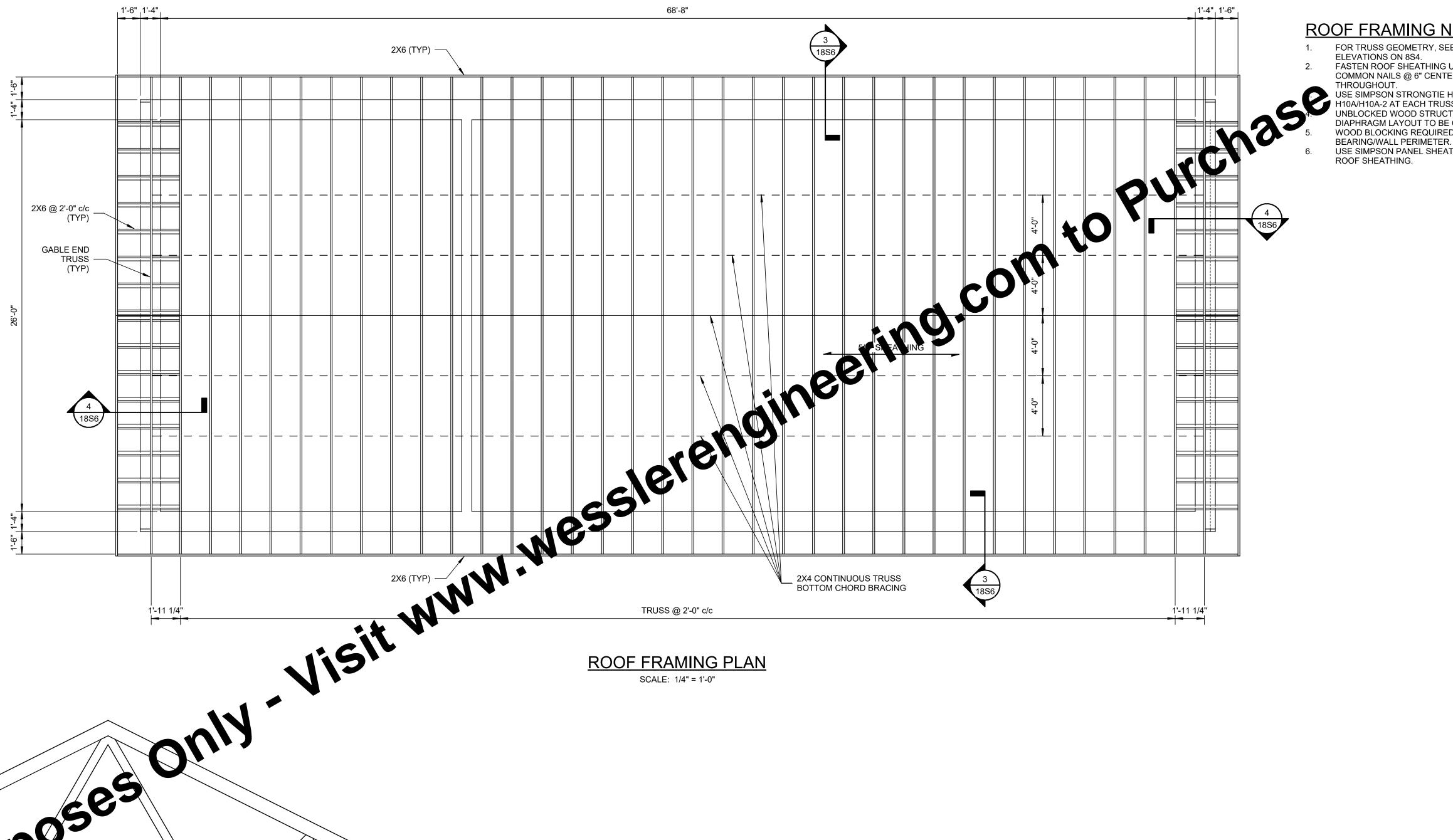








ELEVATIONS ON 8S4.



SEE NOTE J. PRE-ENGINEERED PRE-FABRICATED WOOD TRUSSES ON SHEET 1S2.

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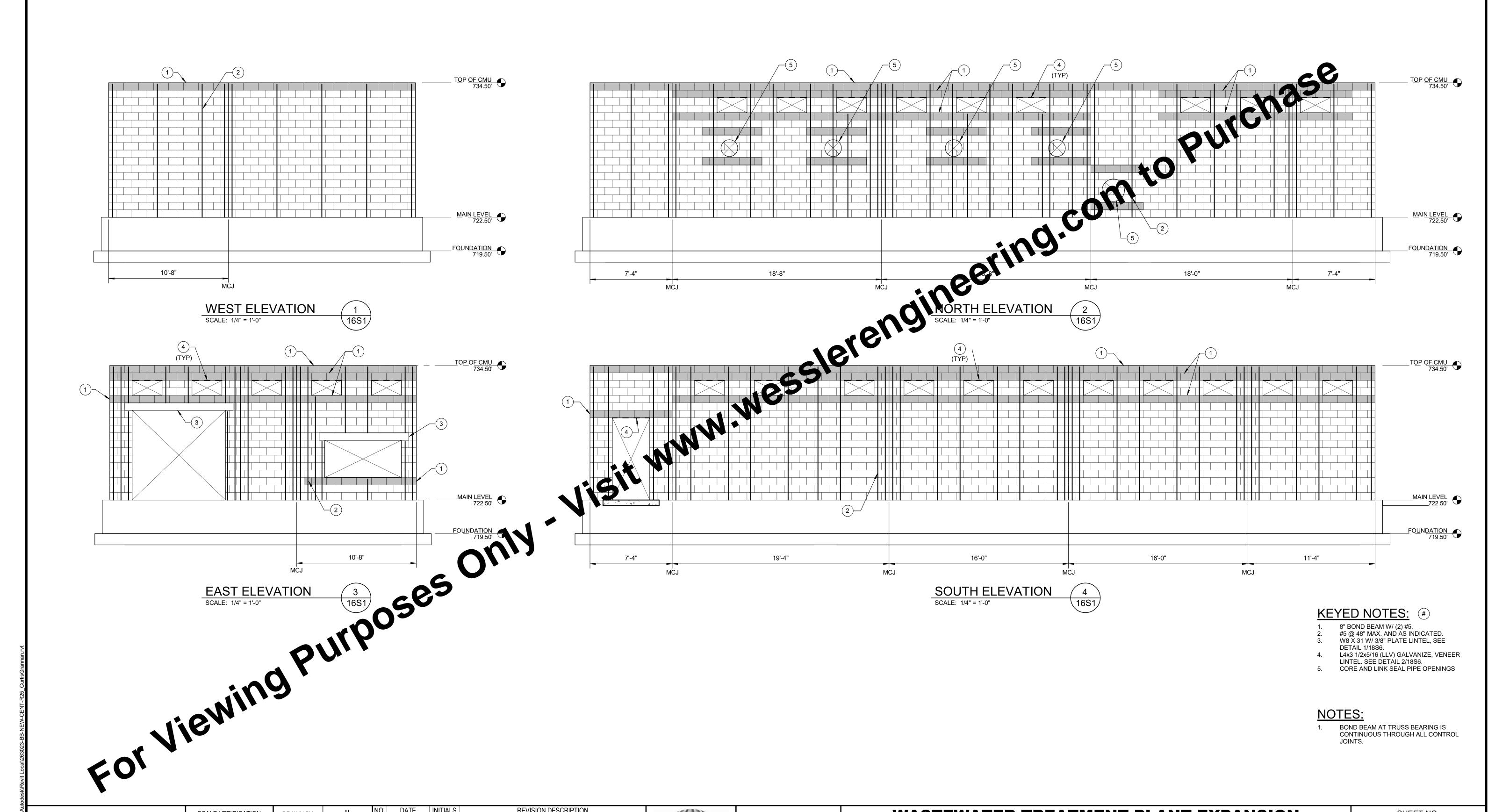


2'-2"

# **WASTEWATER TREATMENT PLANT EXPANSION**

CITY OF FRANKLIN, INDIANA

**NEW BLOWER BUILDING ROOF FRAMING PLAN AND ELEVATION**  SHEET NO.



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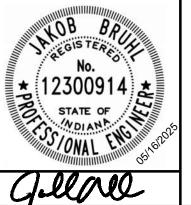
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PROJECT NUMBER

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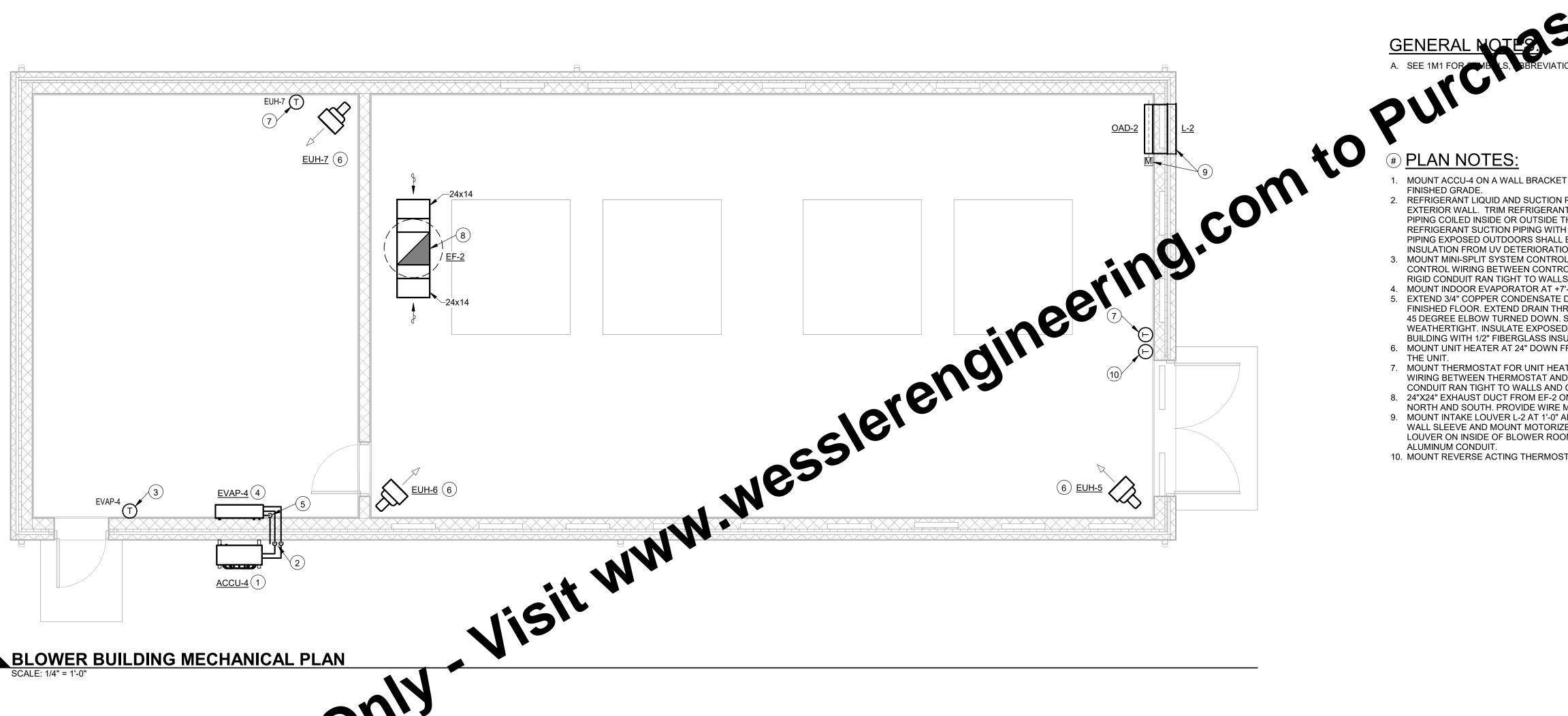
# **WASTEWATER TREATMENT PLANT EXPANSION**

CITY OF FRANKLIN, INDIANA

NEW BLOWER BUILDING
CMU WALL REINFORCING ELEVATIONS

16S3





ATIONS AND ADDITIONAL GENERAL NOTES.

- MOUNT ACCU-4 ON A WALL BRACKET ON THE EXTERIOR WALL AT 4'-0" ABOVE FINISHED GRADE.
- REFRIGERANT LIQUID AND SUCTION PIPING SLEEVED AND SEALED THRU PIPING COILED INSIDE OR OUTSIDE THE BUILDING. FULLY INSULATE THE REFRIGERANT SUCTION PIPING WITH 3/4" CLOSED CELL FOAM INSULATION. ALL
- INSULATION FROM UV DETERIORATION. MOUNT MINI-SPLIT SYSTEM CONTROLLER ON MASONRY WALL AT +4'-0" AFF. ALL CONTROL WIRING BETWEEN CONTROLLER AND EVAPORATOR SHALL BE RAN IN RIGID CONDUIT RAN TIGHT TO WALLS AND COORDINATED WITH OTHER TRADES.

PIPING EXPOSED OUTDOORS SHALL BE RUN IN A 6" ENCLOSURE TO PROTECT

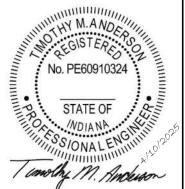
- MOUNT INDOOR EVAPORATOR AT +7'-0" AFF ON MASONRY WALL. EXTEND 3/4" COPPER CONDENSATE DRAIN PIPING DOWN WALL TO 12" ABOVE WEATHERTIGHT. INSULATE EXPOSED CONDENSATE DRAIN PIPING INSIDE THE BUILDING WITH 1/2" FIBERGLASS INSULATION WITH ALL SERVICE JACKET.
- WIRING BETWEEN THERMOSTAT AND UNIT HEATER SHALL BE RAN IN RIGID CONDUIT RAN TIGHT TO WALLS AND COORDINATED WITH OTHER TRADES.
- 24"X24" EXHAUST DUCT FROM EF-2 ON ROOF. TEE DUCTWORK BELOW CEILING NORTH AND SOUTH. PROVIDE WIRE MESH AT BOTH DUCT OPENINGS. MOUNT INTAKE LOUVER L-2 AT 1'-0" AFF TO BOTTOM OF LOUVER AND PROVIDE
- WALL SLEEVE AND MOUNT MOTORIZED OUTSIDE AIR DAMPER, OAD-1 BEHIND LOUVER ON INSIDE OF BLOWER ROOM. ALL WIRING SHALL BE RAN WITHIN RIGID
- 10. MOUNT REVERSE ACTING THERMOSTAT ON WALL AT +4'-0" AFF

For Viewing Purposes Only BLOWER BUILDING MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

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DATE INITIALS REVISION DESCRIPTION SCALE VERIFICATION DRAWN BY RLW TMA APPROVED BY BAR IS ONE INCH LONG ON ORIGINAL DRAWING ISSUE DATE MAY 2025 PROJECT NUMBER 263023-04-001



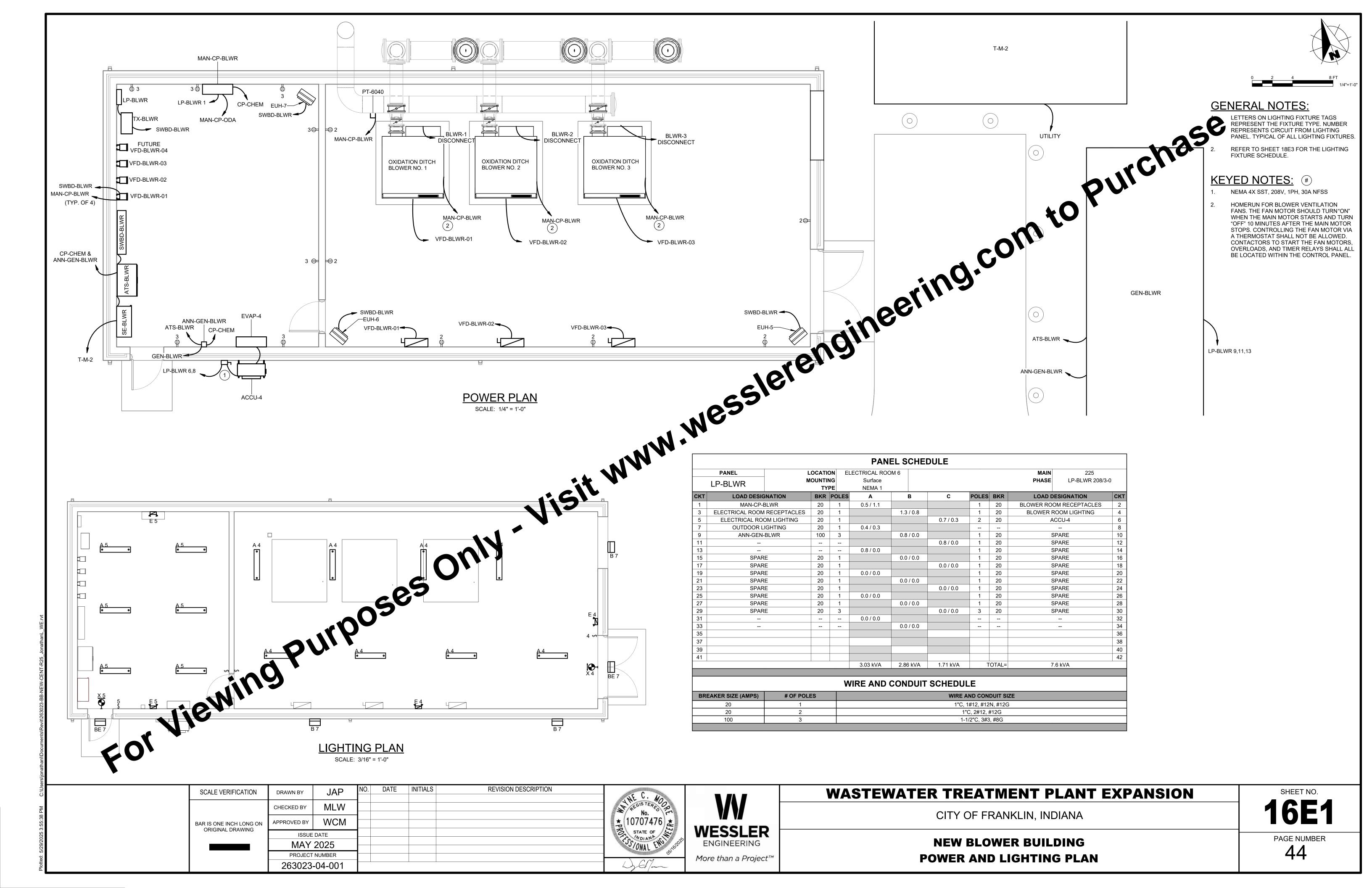
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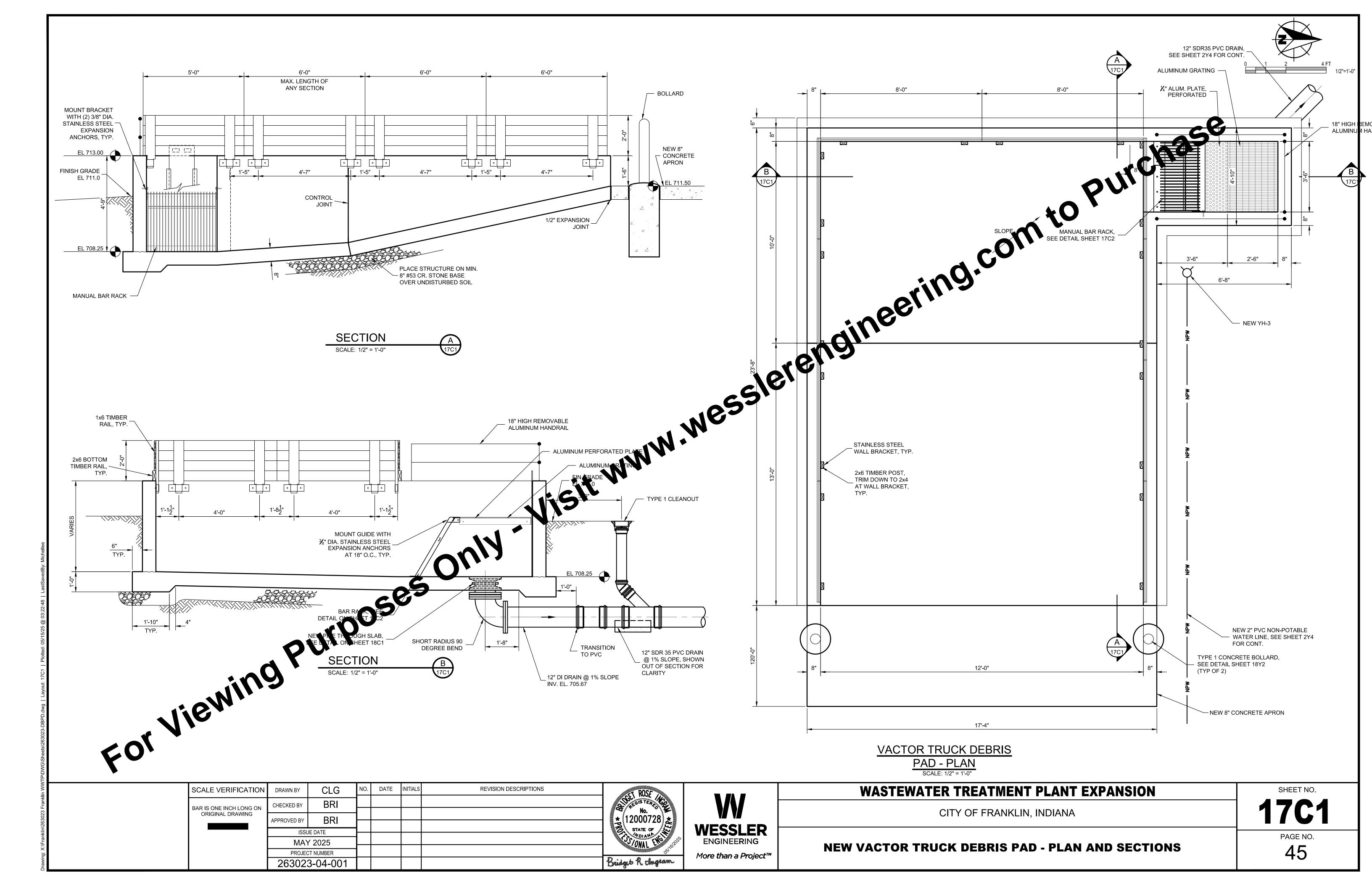
# **WASTEWATER TREATMENT PLANT EXPANSION**

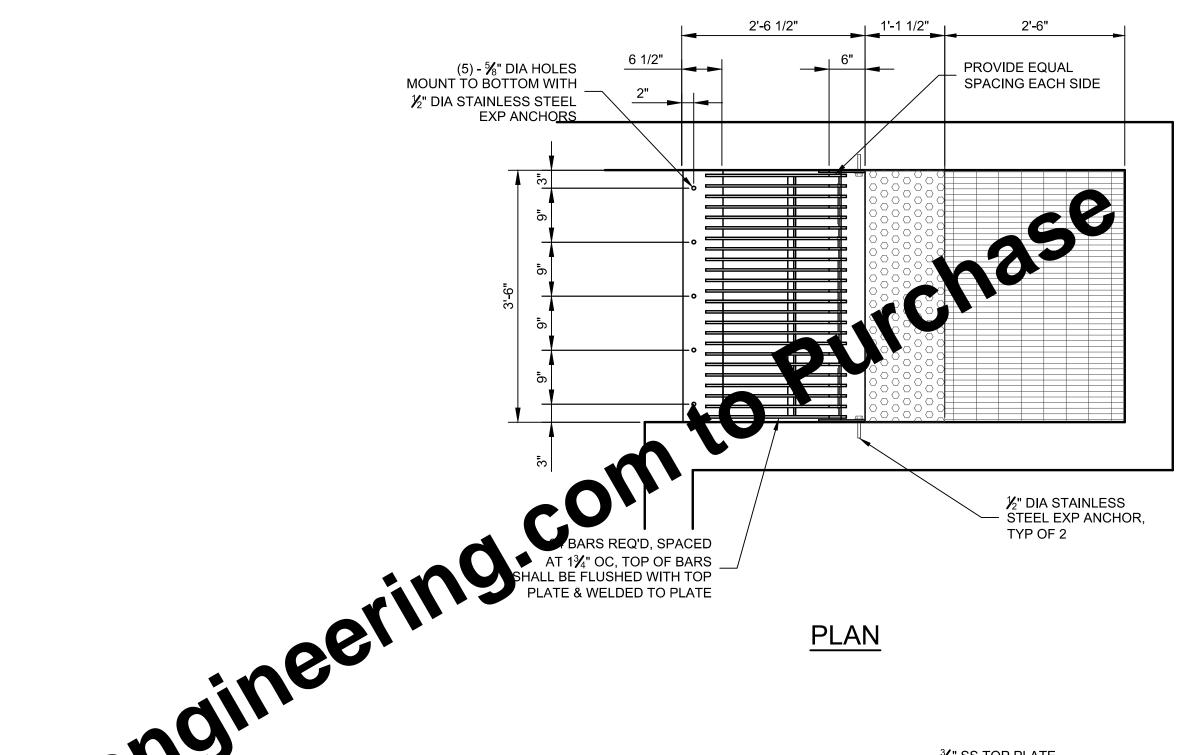
CITY OF FRANKLIN, INDIANA

**NEW BLOWER BUILDING MECHANICAL PLAN** 

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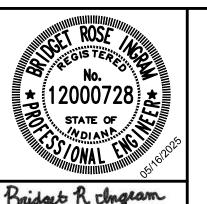


For Viewing Purposes Only - Visit www.wesslerengineering.co %" SS TOP PLATE, WELD TO GUSSETS EL 713.00 1/4" SS PLATE, PERFORATED — SS GRATING 4x2x¼ SS SUPPORT - ANGLE, INSTALL PER GRATING SUPPORT DETAIL 21/2"x3/8" SS BARS, ─ WELD TO TOP & BOTTOM PLATES EL 708.25 3/8" SS \_ BOTTOM PLATE **SECTION** NOTES:
1. ALL METAL COMPONENTS SHALL BE 316 SS

BYPASS BAR SCREEN DETAIL

SCALE: 3/4" = 1'-0"

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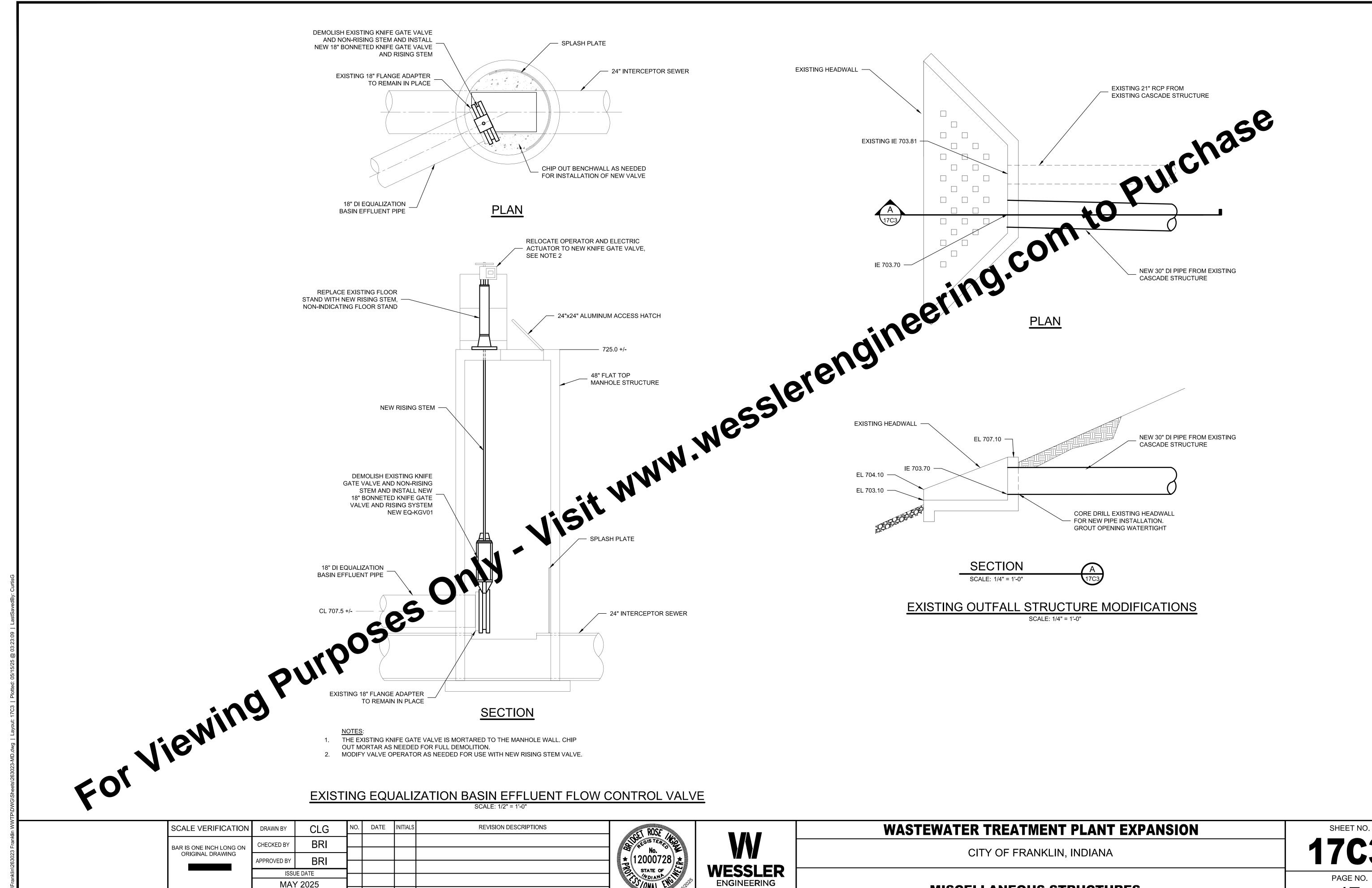


WASTEWATER	TREATMENT	PLANT	<b>EXPANSION</b>	
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CITY OF FRANKLIN, INDIANA

**NEW VACTOR TRUCK DEBRIS PAD - SECTIONS AND DETAILS** 

SHEET NO. 17C2



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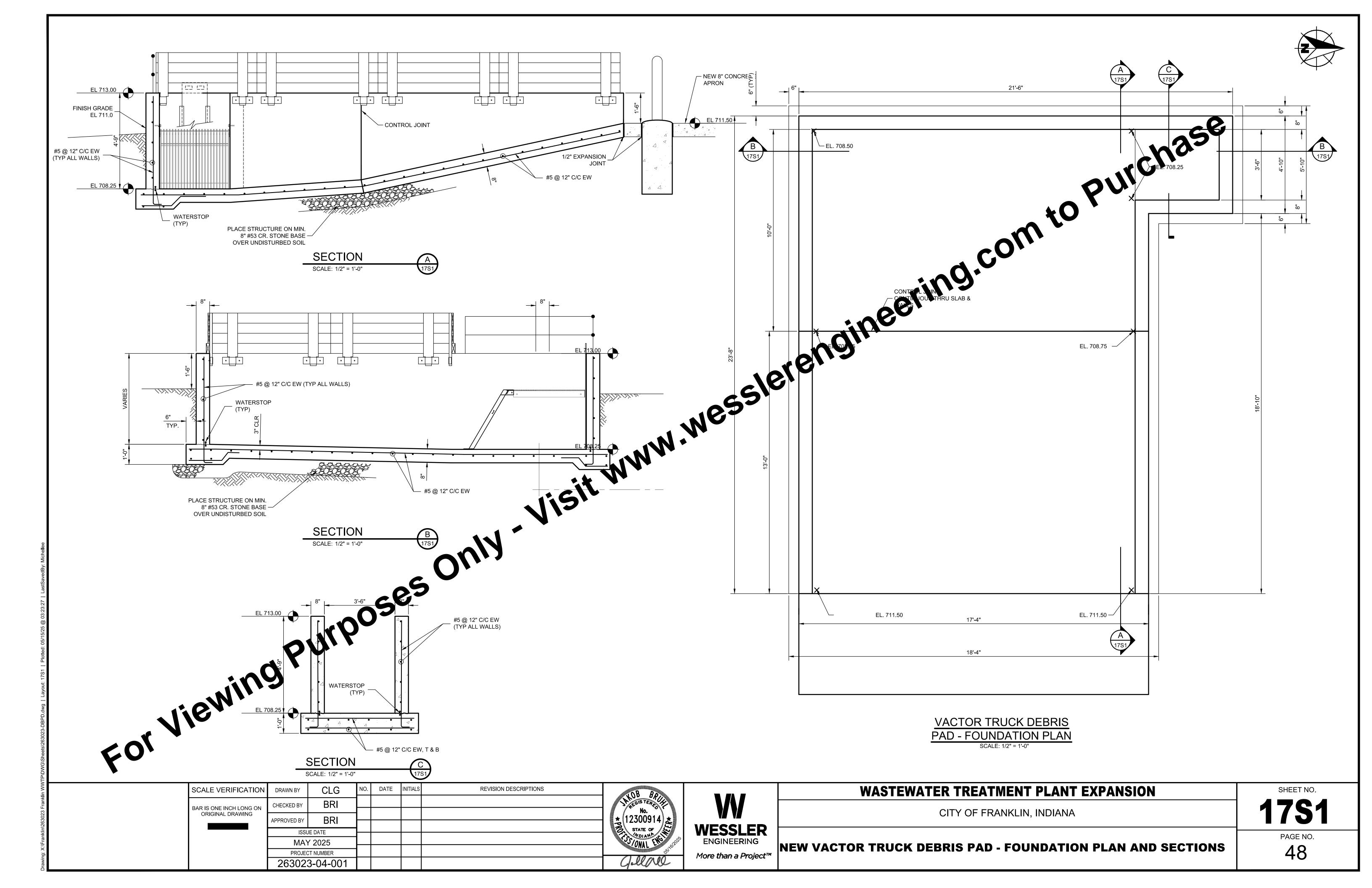
Bridget R chageam

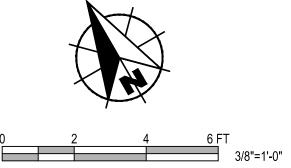
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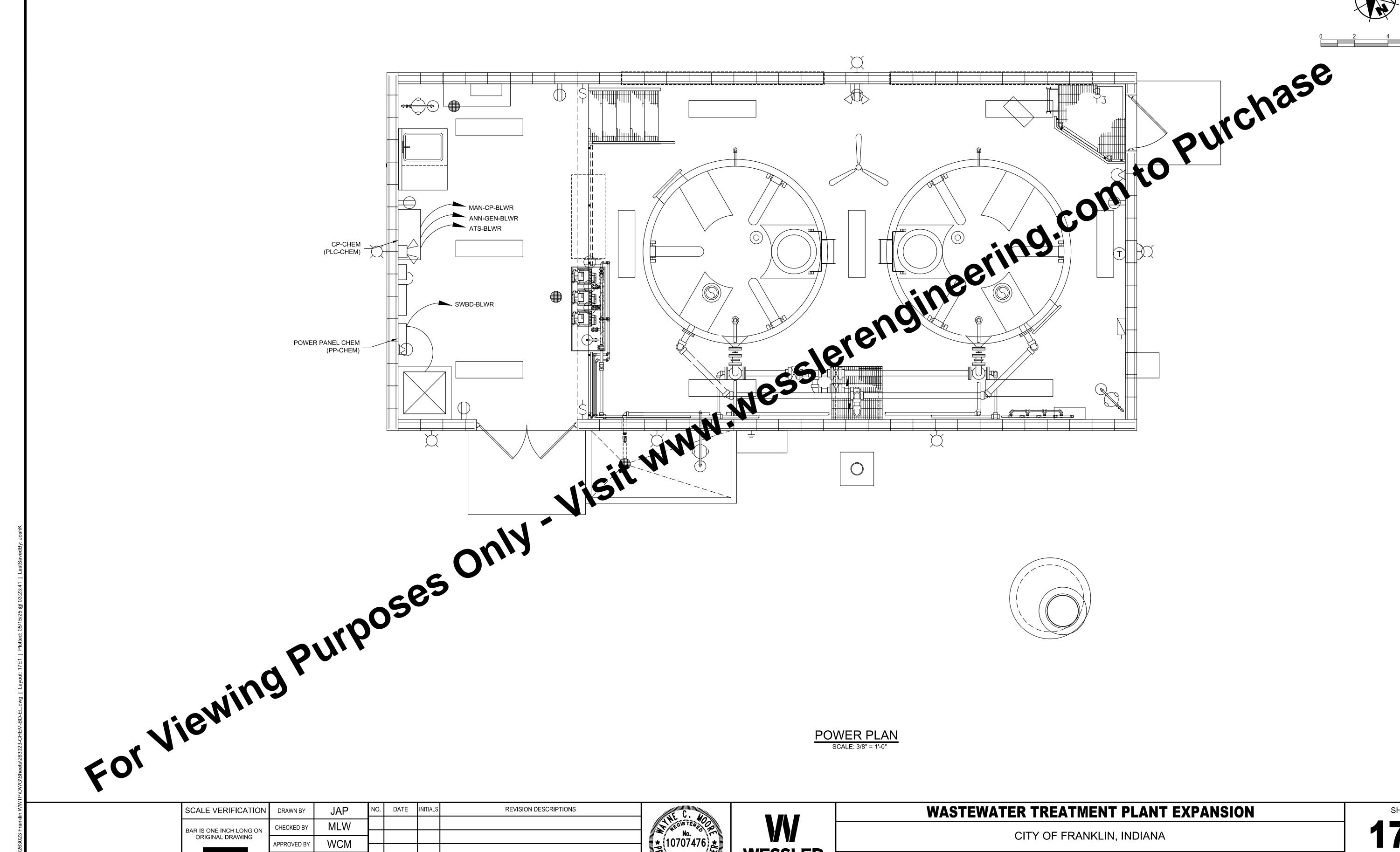
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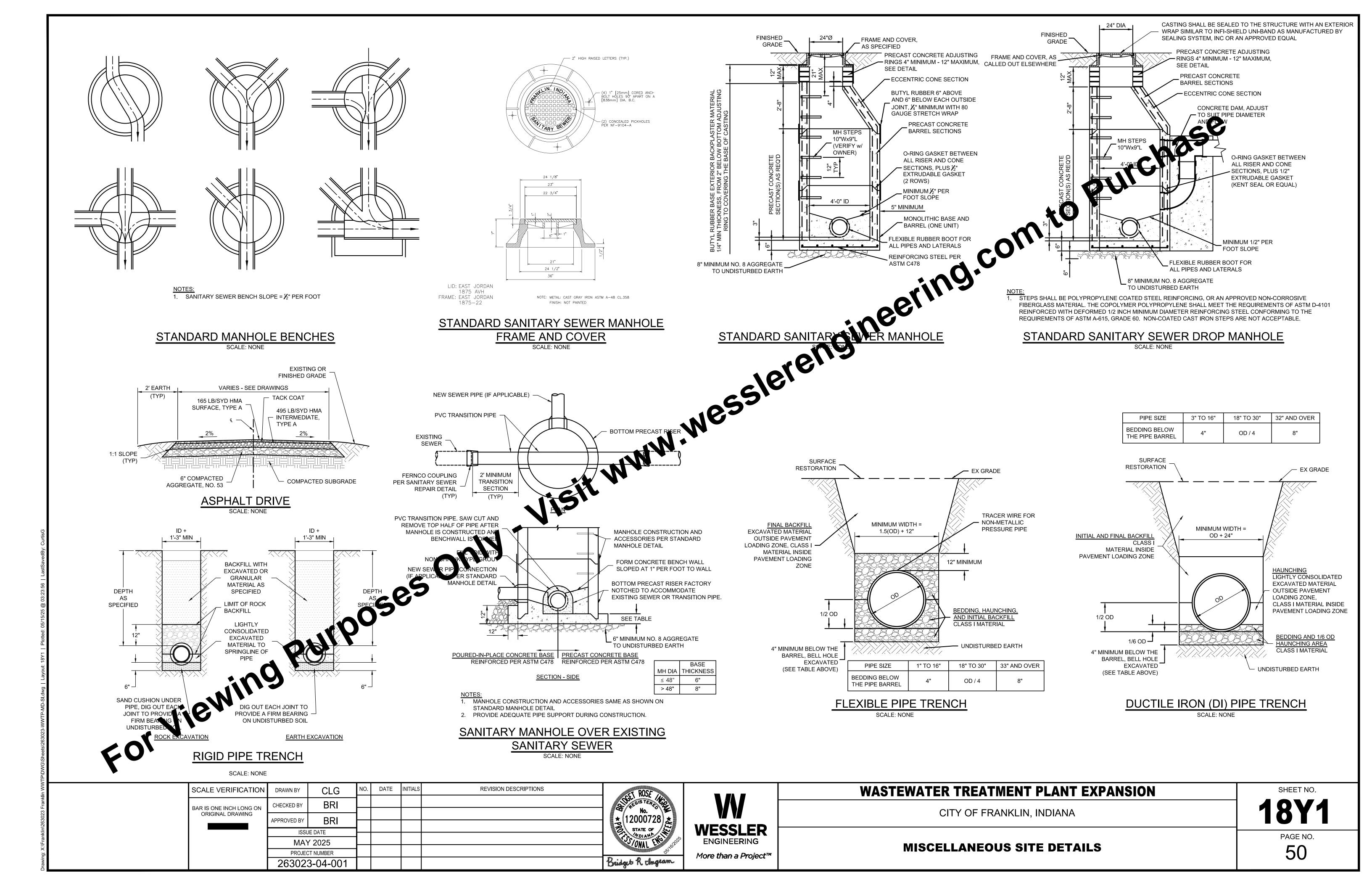
**MISCELLANEOUS STRUCTURES** 

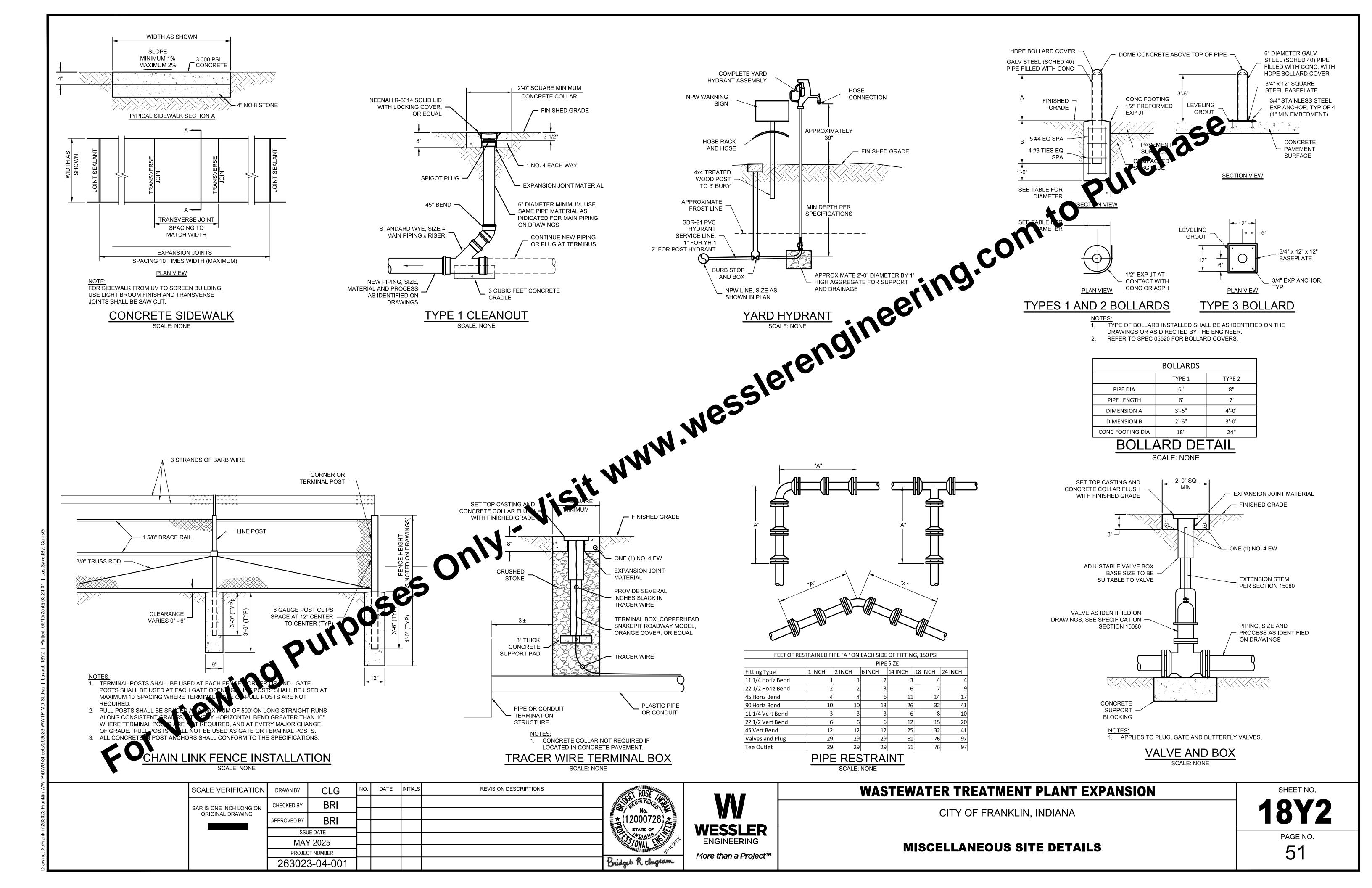


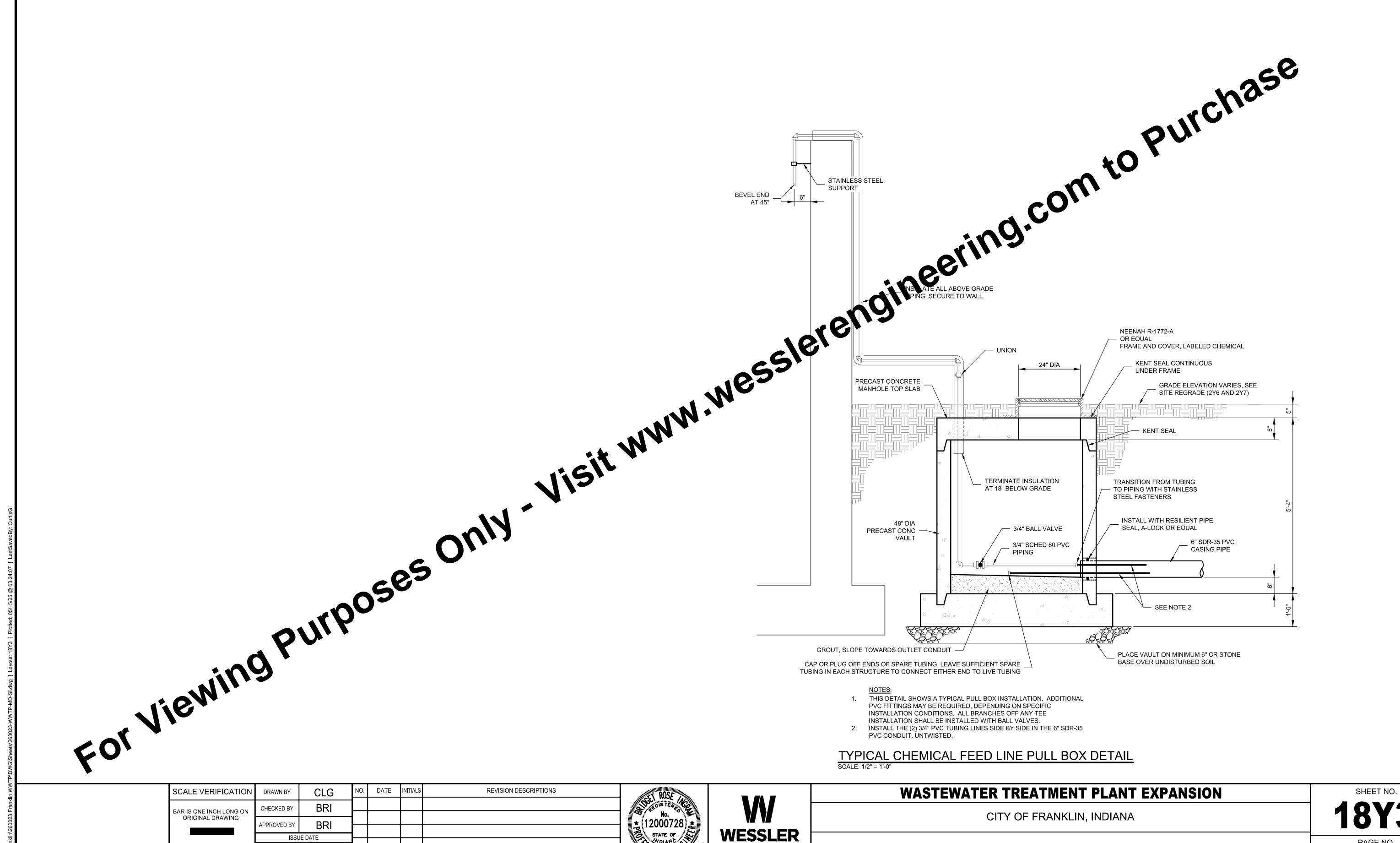




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**MISCELLANEOUS SITE DETAILS** 

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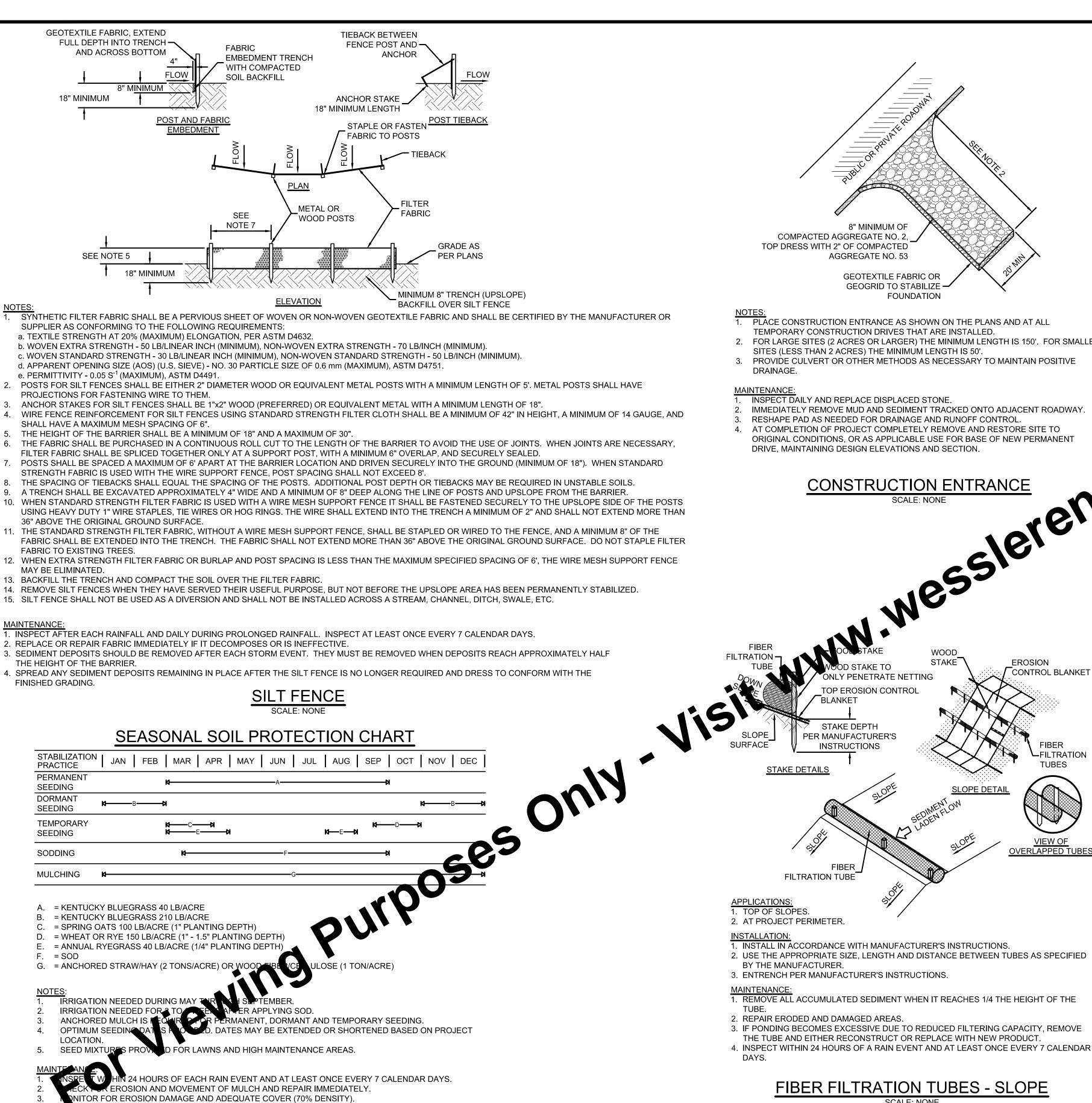
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ISSUE DATE

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PROJECT NUMBER

263023-04-001



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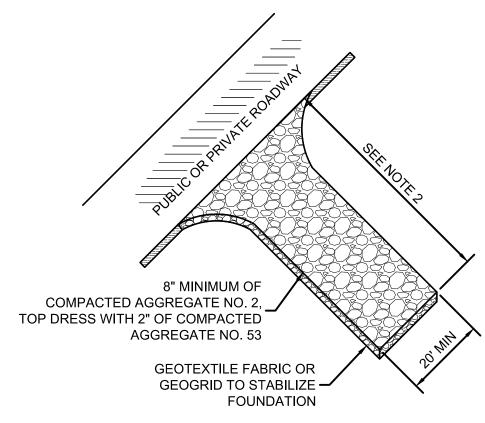
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- 1. PLACE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS AND AT ALL TEMPORARY CONSTRUCTION DRIVES THAT ARE INSTALLED.
- 2. FOR LARGE SITES (2 ACRES OR LARGER) THE MINIMUM LENGTH IS 150'. FOR SMALLER SITES (LESS THAN 2 ACRES) THE MINIMUM LENGTH IS 50'.
- 3. PROVIDE CULVERT OR OTHER METHODS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.

INSPECT DAILY AND REPLACE DISPLACED STONE.

TOP EROSION CONTROL

STAKE DEPTH

PER MANUFACTURER'S

INSTRUCTIONS

**FIBER** 

FILTRATION TUBE

STAKE DETAILS

IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED ONTO ADJACENT ROADWAY.

**CONSTRUCTION ENTRANCE** 

STAKE

**EROSION** 

CONTROL BLANKET

-FILTRATION

- RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL
- 4. AT COMPLETION OF PROJECT COMPLETELY REMOVE AND RESTORE SITE TO ORIGINAL CONDITIONS, OR AS APPLICABLE USE FOR BASE OF NEW PERMANENT DRIVE, MAINTAINING DESIGN ELEVATIONS AND SECTION.

**EXISTING** TREE MINIMUN WOOD 2 HORIZONTAL ROPES 1. PROTECT TREES WHERE NOTED ON THE DRAWING PROTECT TREE ROOTS. OPTION 1 SHALL BE THE STANDARD TREE F MAY BE PROTECTED BY A SINGLE SET APPROPRIATE TREE PROTECTION Z GE FROM CONSTRUCTION ACTIVITIES. REPAIR WOUNDS NG DAMAGED BARK AND WOOD TISSUE. DO NOT USE TREE BRACE ANY TRUNK SPLITS, WEAK FORKS, AND LARGE LIMBS

TREE PROTECTION METHODS

RADIUS FOR TREE PROTECTION

REFER TO TREE PROTECTION

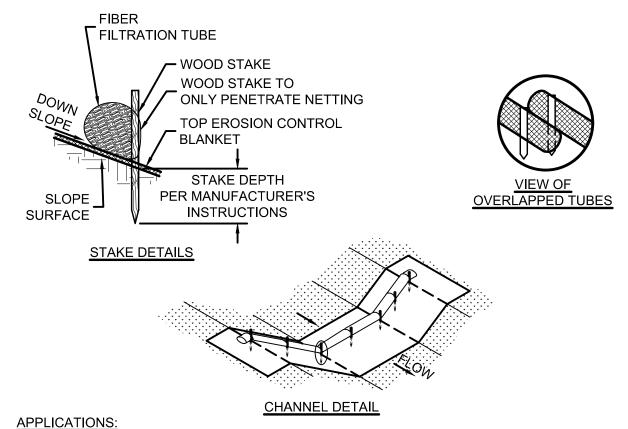
ZONE DETAIL

DRIP LINE

MINIMUM PROTECTION ZONE SIZES SHOWN BELOW ARE BASED ON MEASUREMENT OF TREE STEM DIAMETER AT 4.5 FEET ABOVE THE GROUND (DIAMETER AT BREAST HEIGHT - DBH). FOR TREES WITH MULTIPLE STEMS (TRUNKS) AT THE MEASURING HEIGHT, THE DBH MEASUREMENTS ARE ADDED TOGETHER TO CREATE AN OVERALL SUM DBH FOR THAT TREE.

TREE AMETER (DBH)	TREE PROTECTION ZONE (RADIUS FROM TRUNK)		TREE DIAMETER (DBH)	TREE PROTECTION ZONE (RADIUS FROM TRUNK)
1"	2'		26"	22'
2"	60		27"	23'
3"			28"	23'
4"	3'		29"	24'
	4'		30"	25'
6"	5'		31"	26'
7"	6'		32"	27'
8"	7'		33"	28'
9"	8'		34"	28'
10"	8'		35"	29'
11"	9'		36"	30'
12"	10'		37"	31'
13"	11'		38"	32'
14"	12'		39"	33'
15"	13'		40"	33'
16"	13'		45"	38'
17"	14'		50"	42'
18"	15'		55"	46'
19"	16'		60"	50'
20"	17'		65"	54'
21"	18'		70"	58'
22"	18'		75"	63'
23"	19'		80"	67'
24"	20'		85"	71'
25"	21'		90"	75'
-	TREE PROT	EC	TION 2	ZONE

SCALE: NONE



1. DOWN-GRADIENT OF A PROJECT LIMITS.

2. ACROSS DITCHES OR SWALES.

3. TO SLOW FLOWS AND FILTER SEDIMENTS.

- 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. 2. USE THE APPROPRIATE SIZE, LENGTH AND DISTANCE BETWEEN TUBES AS SPECIFIED BY
- THE MANUFACTURER.
- 3. ENTRENCH PER MANUFACTURER'S INSTRUCTIONS.

I.REMOVE ALL ACCUMULATED SEDIMENT WHEN IT REACHES 1/4 THE HEIGHT OF THE

- 2. REPAIR ERODED AND DAMAGED AREAS.
- 3. IF PONDING BECOMES EXCESSIVE DUE TO REDUCED FILTERING CAPACITY, REMOVE THE TUBE AND EITHER RECONSTRUCT OR REPLACE WITH NEW PRODUCT.
- 4. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR

FIBER FILTRATION TUBES - CHANNEL

12000728 \* Bridget R chageam

**WESSLER ENGINEERING** More than a Project™

FIBER FILTRATION TUBES - SLOPE

# **WASTEWATER TREATMENT PLANT EXPANSION**

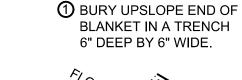
CITY OF FRANKLIN, INDIANA

**18EC1** 

**MISCELLANEOUS EROSION CONTROL DETAILS** 

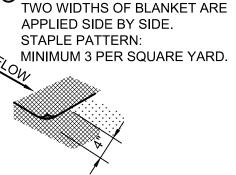
SHEET NO.

53



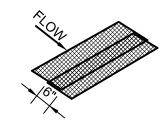
**BLANKET FABRIC ANCHORED** 

> (3) USE A 6" OVERLAP WHEREVER ONE ROLL OF BLANKET ENDS AND ANOTHER BEGINS.



② USE A 4" OVERLAP WHEREVER

4 CHECK SLOTS SHOULD BE MADE EVERY 18'. INSERT A FOLD OF THE BLANKET INTO A TRENCH 6" WIDE BY 6" DEEP AND TAMP FIRMLY LAY THE BLANKET SMOOTHLY ON THE SURFACE OF THE SOIL: DO NOT STRETCH THE BLANKET, AND DO NOT ALLOW WRINKLES. INSTALL STAPLE 20" ON CENTER IN TRENCH.



PLACE BLANKET PARALLEL TO THE DIRECTION OF FLOW. DO NOT JOIN STRIPS IN THE CENTER OF THE DITCH. USE CHECK SLOTS AS REQUIRED.

SILT FABRIC ANCHORED -IN TRENCH **APPROXIMATE** 6"x6" TRENCH

> PLACE BLANKET PARALLEL TO THE DIRECTION OF FLOW AND ANCHOR SECURELY. BRING BLANKET TO A LEVEL AREA BEFORE TERMINATING THE INSTALLATION.

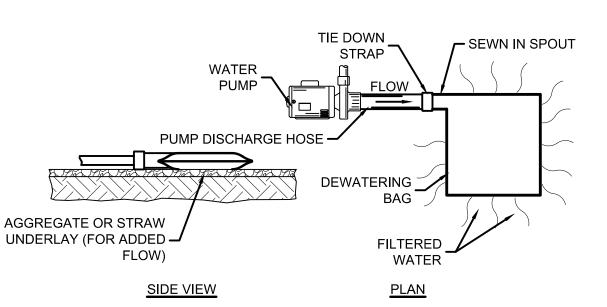
PRODUCT:

1. NORTH AMERICAN GREEN SC150, OR EQUAL.

1. PROTECT THE SLOPES WITH AN EROSION CONTROL BLANKET WHERE CONSTRUCTION DISTURBS SLOPES EQUAL OR STEEPER THAN 3:1.

- INSPECT FOR EROSION AFTER EACH STORM EVENT DURING VEGETATION
- ESTABLISHMENT, AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
- 2. IF ANY AREAS SHOW EROSION, PULL BACK THAT PORTION OF THE BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE THE BLANKET.
- 3. CHECK AREAS PERIODICALLY AFTER VEGETATION ESTABLISHMENT.

### **EROSION CONTROL BLANKET** SCALE: NONE



MECHANICAL PROPERTIES	TEST METHOD	UNITS	INDUSTRY STANDARD
GRAB TENSILE STRENGTH	ASTM D4632	kN (LB)	0.9 (205) X 0.9 (05)
GRAB TENSILE ELONGATION	ASTM D4632	%	
PUNCTURE STRENGTH	ASTM D4833	kN (LB)	0 & (2,0)
MULLEN BURST STRENGTH	ASTM D3786	kPa (PSI)	618 (380)
TRAPEZOID TEAR STRENGTH	ASTM D4533	kN (LB)	.36 (80) X 0.36 (80)
UV RESISTANCE	ASTM D4355	%	70
APPARENT OPENING SIZE	ASTM D4751	MATS DS VL)	0.180 (80)
FLOW RATE	ASTM D4491	1/Mvi² (GAL/ivIN/FT²)	3866 (95)
PERMITTIVITY	ASTM D4491	S <sup>-1</sup>	1.2

### **MAINTENANCE**

PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND

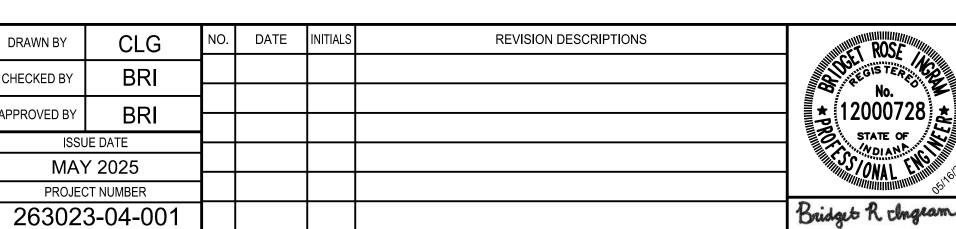
SCALE VERIFICATION

BAR IS ONE INCH LONG ON

ORIGINAL DRAWING



# **PUMPING BAG**





# **WASTEWATER TREATMENT PLANT EXPANSION** CITY OF FRANKLIN, INDIANA

# **MISCELLANEOUS EROSION CONTROL DETAILS**

STRAW BALE (ALTERNATE MATERIALS OR W=MINIMUM PRODUCTS MAY BE USED TO PROVIDE 10' WOOD OR METAL STAKES TO - STRUCTURAL CONTAINMENT), ALTERNATE SECURE STRAW BALES -MATERIALS OR PRODUCTS WILL REQUIRE (2 PER STRAW BALE) DESIGN MODIFICATION METAL PINS OR STAPLES TO SECURE L = INSIDE LENGTH L=MINIMUM THE POLYETHYLENE LINING TO THE W = INSIDE WIDTH STRAW BALES POLYETHYLENE LINING (10 MILS), EXTEND OVER STRAW BALES METAL PINS OR STAPLES TO SECURE THE POLYETHYLENE LINING TO THE STRAW BALES GRADE MINIMUM 3' STRAW BALES ENTRENCHED **COMPACTED SOIL** 4" INTO THE SOIL 1. LOCATE WASHOUTS AT LEAS 50' FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES, OR STORM DRAIN/CONV

XCESS MUD IN THE CHUTES OR HOPPER AFTER POURING CONCRETE. MAKE EVERY EFFORT TO HUTE AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY SPOSED OF IN AREAS THAT WILL NOT FLOW TO AN AREA THAT IS TO BE PROTECTED.

- CRAPE AS MUCH MATERIAL FROM THE CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
- 3. STOP WASHING OUT IN AN AREA IF YOU OBSERVE WATER RUNNING OFF THE DESIGNATED AREA OR IF THE WATER IS NOT BEING CONTAINED WITHIN THE WASHOUT AREA.
- 4. DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE.
- 5. DO NOT USE ADDITIVES WITH WASH WATER.
- 6. DO NOT WASH OUT OR DRAIN WASTE WATERS TO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES OR STREETS.

1. MAINTENANCE REQUIREMENTS PROVIDED IN SPECIFICATIONS.

CONCRETE WASHOUT

# **EROSION CONTROL SCHEDULE**

**EROSION CONTROL SCHEDULE** 

SCHEDULE CONSIDERATION

AUTHORIZATION UNDER THE CSGP IS EFFECTIVE 48-HOURS

AFTER SUBMITTAL OF THE NOTICE OF INTENT TO IDEM AND

LOCAL AUTHORITY BY THE OWNER.

COMPLETE BEFORE CONSTRUCTION BEGINS.

THIS IS THE FIRST LAND-DISTURBING ACTIVITY. AS

SOON AS CONSTRUCTION BEGINS, STABILIZE ANY

BARE AREAS WITH AGGREGATE AND TEMPORARY

AFTER CONSTRUCTION IS ACCESSED, SHALL BE

FOR NATURAL FEATURES, TREES AND BUFFERS

INSTALL ADDITIONAL CONTROL MEASURES AS

APPLY TEMPORARY OR PERMANENT STABILIZING

MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR

DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE

DISTURBED AREAS, INCLUDING BORROW AND SPOIL

AREAS, AND REMOVE ALL TEMPORARY CONTROL

MATERIALS, WASTES, AND EQUIPMENT HAVE BEEN

THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL

MEASURES. FINAL STABILIZATION IS WHEN A UNIFORM

GRADING CONTINUES. CLEAR BORROW AND DISPOSAL

RUNOFF CONTROL PRACTICES SHALL BE I

BEFORE LAND GRADING. ADDITIONA

**CONTROL MEASURES MAY BE** 

SLOPES OF RUNOFE

AREAS AS NEEDED.

DELAYED.

NEEDED.

INSTALLED, WITH THE ADDITION OF MORE BARRIERS

AS NEEDED DURING GRADING. SET UP PROTECTION

VEGETATION.

GRADING.

LAND CLEARING AND GRADING - SITE PREPARATION (CUTTING. FILLING. AND GRADING, SEDIMENT, TALLATION OF RUNOFF CONTROL MEASURES, AND

**CONSTRUCTION ACTIVITY** 

INFORMATION NEAR THE MAIN ENTRANCE OF THE PROJECT SITE OR AT A PUBLICLY ACCESSIBLE LOCATION: NOTICE OF

PRECONSTRUCTION ACTIVITIES: POST THE FOLLOWING

INTENT (NOI) DOCUMENT, COPY OF THE PUBLIC NOTICE,

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM

(NPDES) PERMIT NUMBER, NAME, ADDRESS, AND PHONE

MAINTAIN DOCUMENTATION ON-SITE PER SPECIFICATION

02101 FOR THE PROJECT MANAGEMENT LOG. THE SWPPP

REQUEST. INFORM OR TRAIN PERSONNEL ASSOCIATED WITH

THE PROJECT OF THE TERMS AND CONDITIONS OF THE CSGF

CONSTRUCTION ACTIVITIES TO MINIMIZE THE FOOTPRINT OF DISTURBED UNSTABLE AREAS. SUBMIT A REVISED EROSION CONTROL SCHEDULE AS NEEDED FOR TEMPORARY AND PERMANENT EROSION CONTROL WORK AS APPLICABLE.

SHOULD BE ONSITE AND SELF-MONITORING INSPECTION REPORTS MUST BE AVAILABLE WITHIN 48 HOURS OF

REVIEW THE EROSION CONTROL SCHEDULE ON THE

DRAWINGS AND REVISE AS NEEDED TO PHASE

CONSTRUCTION ACCESS - ENTRANCE TO SITE,

RUNOFF CONTROL - DIVERSIONS, PERIMETER

PROTECTION, CHECK DAMS, OUTLET PROTECTION

RUNOFF CONVEYANCE SYSTEM - STABILIZE STREAM

ES, UTILITIES, PAVING.

BANKS, STORM DRAINS, CHANNELS, INLET AND

OUTLET PROTECTION, SLOPE DRAINS.

BARRIERS, DIVERSIONS, DRAINS, SURFACE

SURFACE STABILIZATION - TEMPORARY

ON OILING, TREES AND SHRUBS, PERMANENT

PERMANENT SEEDING, MUI

CONSTRUCTION ROUTES, AREAS DESIGNATED FOR

SEDIMENT BARRIERS - SILT FENCE AND PERIMETER

EQUIPMENT PARKING OR MATERIAL STAGING AND

AND THE SWPPP REQUIREMENTS.

WASTE HANDLING.

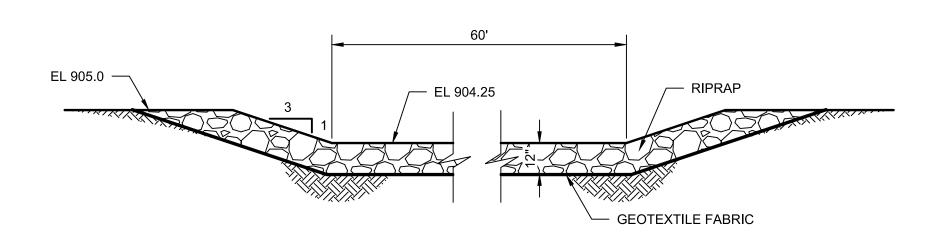
PROTECTION.

ROUGHENING).

OF A COPY OF THE CONSTRUCTION DRAWINGS AND

STORMWATER POLLUTION PREVENTION PLAN (SWP3).

NUMBER OF THE LOCAL CONTACT PERSON, AND LOCATION

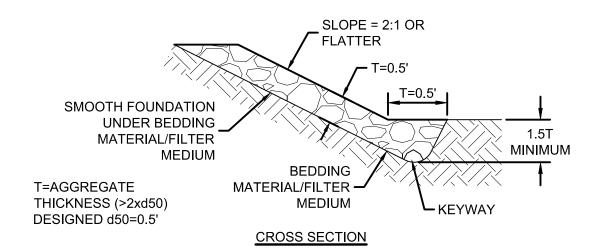


SPILLWAY DETAIL

SHEET NO.

18EC2

54



NOTES:

1. SLOPE RATIO ALLOWED SHALL BE 2:1 OR FLATTER.

- 2. MINIMUM OF RIPRAP DEPTH EQUALS TWO TIMES THE DESIGNED d50 AGGREGATE DIAMETER PLUS THE DEPTH OF THE BEDDING MATERIAL.
- 3. BEDDING MATERIAL GEOTEXTILE FABRIC, SAND, OR AGGREGATE (INDOT CA NO. 9, 11 OR 12).

- 1. REMOVE BRUSH, TREES, STUMPS, AND OTHER DEBRIS AND DISPOSE OF IN DESIGNATED AREAS. 2. EXCAVATE FOUNDATION SUBGRADE BELOW DESIGN ELEVATION TO ALLOW FOR THICKNESS OF THE BEDDING MATERIAL
- 3. COMPACT ANY FILL MATERIAL TO THE DENSITY OF THE SURROUNDING UNDISTURBED SOIL.
- 4. CUT A KEYWAY IN STABLE MATERIAL AT THE SLOPE BASE TO REINFORCE THE TOE; KEYWAY DEPTH SHALL EXTEND A HORIZONTAL DISTANCE EQUAL TO THE DESIGN THICKNESS.
- 5. SMOOTH THE GRADED FOUNDATION.
- 6. PLACE GEOTEXTILE FABRIC ON THE SMOOTHED FOUNDATION, OVERLAP THE EDGES AT LEAST 12" AND SECURE WITH ANCHOR PINS SPACED EVERY 3' ALONG THE OVERLAP. FOR LARGE RIPRAP, CONSIDER A 4" LAYER OF SAND TO PROTECT THE FABRIC.
- 7. IF USING SAND OR AGGREGATE BEDDING MATERIAL, SPREAD THE WELL-GRADED BEDDING MATERIAL IN A UNIFORM LAYER TO THE REQUIRED THICKNESS (6" MINIMUM). IF TWO OR MORE LAYERS ARE SPECIFIED, PLACE THE LAYER OF THE SMALLER GRADATION FIRST AND AVOID MIXING LAYERS. OMISSION OF THE BEDDING MATERIAL OR DAMAGE TO IT MAY RESULT IN EROSION AND/OR PIPING BENEATH THE RIPRAP OF MOVEMENT OF THE UNDERLYING SOIL THROUGH
- 8. IMMEDIATELY AFTER INSTALLING THE BEDDING MATERIAL, ADD RIPRAP TO THE LINES AND ELEVATIONS SHOWN IN THE PLANS. PLACE THE RIPRAP IN ONE OPERATION, TAKING CARE NOT TO DAMAGE THE BEDDING MATERIAL. DO NOT DUMP THROUGH CHUTES OR USE ANY METHOD THAT CAUSES SEGREGATION OF AGGREGATE SIZES OR THAT WILL DISLODGE
- OR DAMAGE THE UNDERLYING BEDDING MATERIAL. 9. IF GEOTEXTILE FABRIC TEARS WHEN PLACING RIPRAP, REPAIR IMMEDIATELY BY LAYING AND STAPLING A PIECE OF FABRIC OVER THE DAMAGED AREA, OVERLAPPING THE UNDAMAGED AREAS BY AT LEAST 12". MAINTENANCE:
- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
- 2. CHECK FOR DISPLACEMENT OF RIPRAP MATERIAL, SLUMPING, AND EROSION ALONG THE EDGES, ESPECIALLY ON THE DOWN-SLOPE SIDE.

# RIPRAP SLOPE PROTECTION

		P GRADATION R	PERCENT SMALLER		1. DURING THE CONSTRUCTION FOR AGGREGATE DISPLACEM 2. MAKE REQUIRED REPAIRS IMI
	SIZE, mm (in.)	REVETMENT	CLASS 1	CLASS 2	FINISHED GRADE.
	750 (30)			100	RI
	600 (24)		100	85-100	
	450 (18)	100	85-100	60-80	
	300 (12)	90-100	35-50	20-40	115
	150 (6)	20-40	10-30	0-20	
S.	75 (3)	0-10	0-10	0-10	
LastSavedBy: CurtisG	DEPTH OF RIPRAP MINIMUM	450 MM (18 IN)	600 MM (24 IN)	750 MM (30 IN)	Couly
18EC3   Plotted: 05/15/25 @ 03:24:25	1. EACH LOADING SHAL SHALL BE VISUALLY I		ρv.		
Layout:	<b>▲</b>	in9			
WTP\DWG\Sheets\263023-WWTP-MD-SI.dwg   Layout: 18E	J'Ie'	in9			

**CHECKED BY** 

PPROVED BY

ISSUE DATE

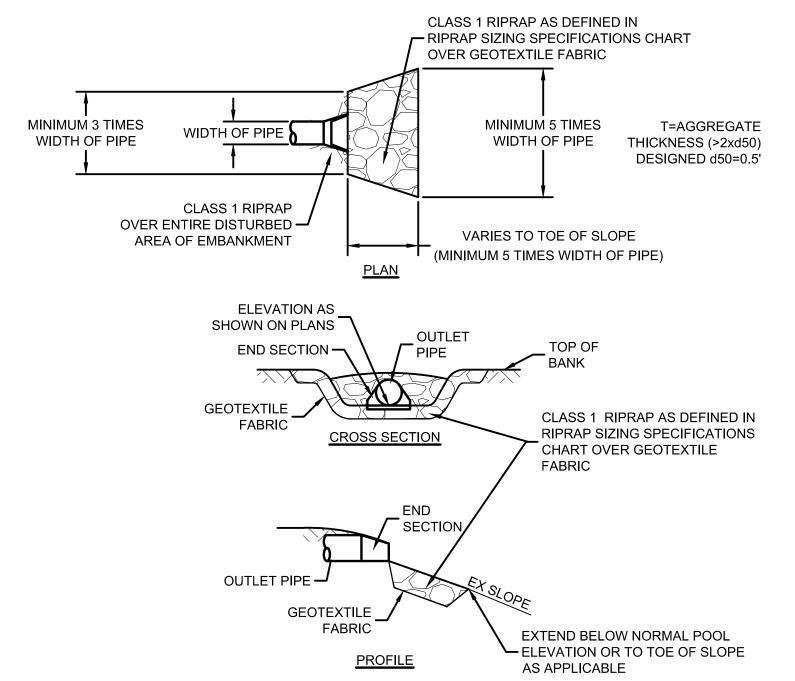
MAY 2025

PROJECT NUMBER

263023-04-001

BAR IS ONE INCH LONG ON ORIGINAL DRAWING

CLG



NOTES:

1. EXCAVATE THE APRON AREA BELOW THE DESIGN ELEVATION TO ALLOW FOR THE THICKNESS OF THE GEOTEXTILE AND RIPRAP.

2. COMPACT ANY FILL USED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATE ENOUGH TO KEEP THE FABRIC FROM TEARING

3. PLACE THE GEOTEXTILE FABRIC ON A COMPACTED AND SMOOTHED FOUNDATION. IF MORE THAN ONE P NEEDED, THE UPSTREAM PIECE SHALL OVERLAP THE DOWNSTREAM PIECE BY A MINIMUM OF 1'

4. INSTALL THE RIPRAP TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS. THE GEOTEXTILE FAI EXTEND TO THE TOP OF THE BANK. THE RIPRAP MUST EXTEND BELOW THE NORMAL BODY OF WATER, OR EXTENDED TO THE TOE OF SLOPE

5. BLEND THE RIPRAP SMOOTHLY TO THE SURROUNDING GRADE. INSTALLATION.

6. PLACE AGGREGATE OR TURF REINFORCEMENT MAT AROUND END UNDERCUTTING OF THE PIPE.

UNDERCUTTING OF THE FIFE.

MAINTENANCE:

1. DURING THE CONSTRUCTION PHASE, INSPECT AFTER EACH STORM EVALUABLE LEAST ONCE EVERY / CALLIDON.

ADDRORDE ATE DISPLACEMENT AND FOR EROSION ALONG THE SILES AND ENDS OF THE APRON.

ADDRORDIATE SILE AGGINGATE, AND DO NOT PLACE AGGREGATE ABOVE LEAST ONCE EVERY 7 CALENDAR DAYS

Bridget R chagram

**WESSLER ENGINEERING** More than a Project™ **WASTEWATER TREATMENT PLANT EXPANSION** 

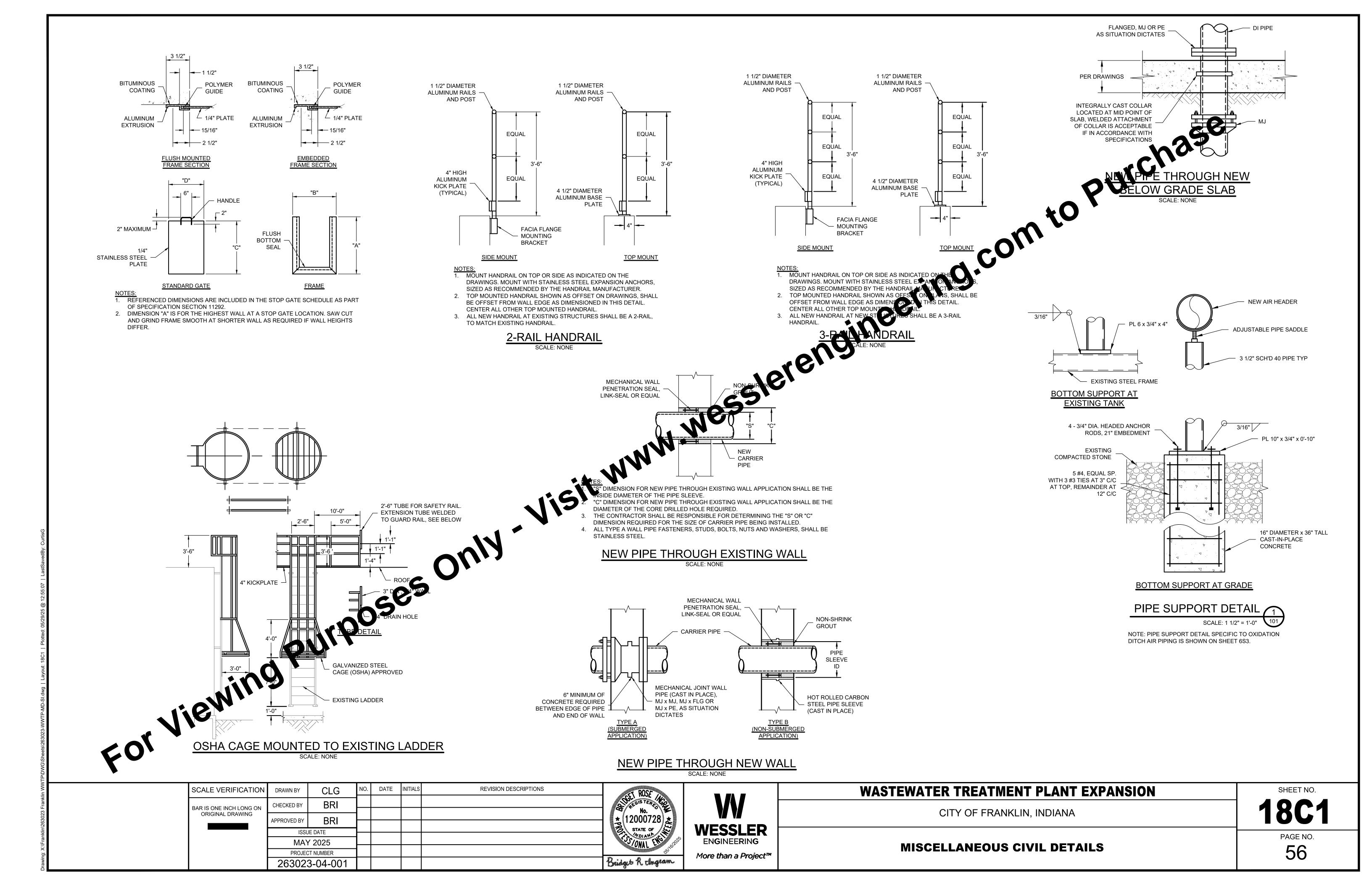
CITY OF FRANKLIN, INDIANA

18EC3

**MISCELLANEOUS EROSION CONTROL DETAILS** 

PAGE NO. 55

SHEET NO.



					V	LVE SCHEE	DULF						
NO. STATUS	SIZE & TYPE FITTING	LOCATION	SERVICE	OPERATOR ACCESSORIES	REMARKS			SIZE & TYPE	FITTING	LOCATION	SERVICE	OPERATOR ACCESSORIES	REMARKS
1101 0171100	3.22 3.111 2 11111113	2007111011	RAW SEWAGE PUMP STATION	of Environ Accessive	TO THE STATE OF TH	GBT-PV02 EX		B" PLUG VALVE	FLANGE	BASEMENT LEVEL	BELT FEED PUMP SUCTION HEADER EAST ISOLATION	HANDWHEEL GEAR OPERATOR	
RSP-CV01 NEW	16" CHECK VALVE FLANGE	VALVE VAULT	RAW SEWAGE PUMP NO. 1 DISCHARGE	-		GBT-PV03 EX		6" PLUG VALVE	FLANGE	BASEMENT LEVEL	BELT FEED PUMP NO. 1 SUCTION ISOLATION	NUT	
RSP-PV01 NEW	16" PLUG VALVE FLANGE	VALVE VAULT	RAW SEWAGE PUMP NO. 1 DISCHARGE ISOLATION	HANDWHEEL GEAR OPERATOR		GBT-CV01 EX		" CHECK VALVE	FLANGE	BASEMENT LEVEL	BELT FEED PUMP NO. 1 DISCHARGE		
RSP-CV02 NEW	16" CHECK VALVE FLANGE 16" PLUG VALVE FLANGE	VALVE VAULT VALVE VAULT	RAW SEWAGE PUMP NO. 2 DISCHARGE RAW SEWAGE PUMP NO. 2 DISCHARGE ISOLATION	HANDWHEEL GEAR OPERATOR		GBT-PV04 EX GBT-PV05 EX		4" PLUG VALVE 5" PLUG VALVE	FLANGE FLANGE	BASEMENT LEVEL BASEMENT LEVEL	BELT FEED PUMP NO. 1 DISCHARGE ISOLATION  BELT FEED PUMP NO. 2 SUCTION ISOLATION	HANDWHEEL GEAR OPERATOR  NUT	
RSP-CV03 NEW	16" CHECK VALVE FLANGE	VALVE VAULT	RAW SEWAGE PUMP NO. 3 DISCHARGE	-		GBT-CV02 EX		" CHECK VALVE	FLANGE	BASEMENT LEVEL	BELT FEED PUMP NO. 2 DISCHARGE	-	_
RSP-PV03 NEW	16" PLUG VALVE FLANGE	VALVE VALUE	RAW SEWAGE PUMP NO. 3 DISCHARGE ISOLATION	HANDWHEEL GEAR OPERATOR		GBT-PV06 EX		4" PLUG VALVE	FLANGE	BASEMENT LEVEL	BELT FEED PUMP NO. 2 DISCHARGE ISOLATION	HANDWHEEL GEAR OPERATOR	
RSP-CV04 NEW	16" CHECK VALVE FLANGE 16" PLUG VALVE FLANGE	VALVE VAULT VALVE VAULT	RAW SEWAGE PUMP NO. 4 DISCHARGE RAW SEWAGE PUMP NO. 4 DISCHARGE ISOLATION	HANDWHEEL GEAR OPERATOR		GBT-PV07 EX		4" PLUG VALVE 4" PLUG VALVE	FLANGE FLANGE	BASEMENT LEVEL BASEMENT LEVEL	BELT PRESS FEED PIPE CROSSOVER BELT PRESS NO. 1 FEED FLOW METER UPSTREAM ISOLATION	CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR	
RSP-PV05 NEW	18" PLUG VALVE FLANGE	VALVE VAULT	RAW SEWAGE PUMP STATION FLOW METER UPSTREAM ISOLATION	HANDWHEEL GEAR OPERATOR		GBT-PV09 EX		4" PLUG VALVE	FLANGE	BASEMENT LEVEL	BELT PRESS NO. 2 FEED FLOW METER UPSTREAM ISOLATION	CHAINWHEEL GEAR OPERATOR CHAINWHEEL GEAR OPERATOR	
RSP-PV06 NEW	18" PLUG VALVE FLANGE	VALVE VAULT	RAW SEWAGE PUMP STATION FLOW METER DOWNSTREAM ISOLATION  DRY WEATHER PUMP STATION	HANDWHEEL GEAR OPERATOR		GBT-PV10 EX		4" PLUG VALVE	FLANGE	BASEMENT LEVEL BASEMENT LEVEL	BELT PRESS NO. 1 FEED FLOW METER DOWNSTREAM ISOLATION	CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR	
DWP-CV01 NEW	12" CHECK VALVE FLANGE	VALVE VAULT	DRY WEATHER PUMP NO. 1 DISCHARGE	_		TW-PV01 EX		4" PLUG VALVE 5" PLUG VALVE	FLANGE FLANGE	BASEMENT LEVEL	BELT PRESS NO. 2 FEED FLOW METER DOWNSTREAM ISOLATION THICKENED WAS PUMP NO. 1 SUCTION ISOLATION	LEVER LEVER	
DWP-PV01 NEW	12" PLUG VALVE FLANGE	VALVE VAULT	DRY WEATHER PUMP NO. 1 DISCHARGE ISOLATION	HANDWHEEL GEAR OPERATOR		TW-CV01 EX	XISTING 6	" CHECK VALVE	FLANGE	BASEMENT LEVEL	THICKENED WAS PUMP NO. 1 DISCHARGE		
DWP-CV02 NEW DWP-PV02 NEW	12" CHECK VALVE FLANGE 12" PLUG VALVE FLANGE	VALVE VAULT VALVE VAULT	DRY WEATHER PUMP NO. 2 DISCHARGE DRY WEATHER PUMP NO. 2 DISCHARGE ISOLATION	HANDWHEEL GEAR OPERATOR		TW-PV02 EX TW-PV03 EX		6" PLUG VALVE 6" PLUG VALVE	FLANGE FLANGE	BASEMENT LEVEL BASEMENT LEVEL	THICKENED WAS PUMP NO. 1 DISCHARGE ISOLATION THICKENED WAS PUMP NO. 2 SUCTION ISOLATION	NUT LEVER	
DWP-PV03 NEW	6" PLUG VALVE FLANGE	VALVE VAULT	DRY WEATHER PUMP STATION BYPASS	LEVER LEVER		TW-CV02 EX		" CHECK VALVE	FLANGE	BASEMENT LEVEL	THICKENED WAS PUMP NO. 2 DISCHARGE	LEVER	
DWP-PV04 EXISTING	24" PLUG VALVE MJ	YARD	DRY WEATHER PUMP STATION FORCE MAIN ISOLATION	NUT EXT. STEM, VALVE BOX & COVER		TW-PV04 EX		6" PLUG VALVE	FLANGE	BASEMENT LEVEL	THICKENED WAS PUMP NO. 2 DISCHARGE ISOLATION	NUT	
GR-PN01 NEW	4" PINCH VALVE FLANGE	EXISTING CLASSIFIER AREA	GRIT PUMP NO. 1 SUCTION	NUT GEAR OPERATOR, ELECTRIC ACTUATOR		TW-PV05 EX		6" PLUG VALVE 4" PLUG VALVE	FLANGE FLANGE	BASEMENT LEVEL BASEMENT LEVEL	THICKENED WAS PUMP 1 & 2 DISCHARGE HEADER ISOLATION PLANT NPW PUMP NO. 1 SUCTION ISOLATION	NUT LEVER	
GR-PN02 NEW	4" PINCH VALVE FLANGE	EXISTING CLASSIFIER AREA	GRIT PUMP NO. 1 DISCHARGE ISOLATION	HANDWHEEL HANDWHEEL		NPW-CV01		" CHECK VALVE	FLANGE	BASEMENT LEVEL	PLANT NPW POWP NO. 1 DISCHARGE	LEVEN	
GR-PN03 NEW	4" PINCH VALVE FLANGE	EXISTING CLASSIFIER AREA	GRIT PUMP NO. 2 SUCTION	NUT GEAR OPERATOR, ELECTRIC ACTUATOR				4" PLUG VALVE	FLANGE	BASEMENT LEVEL	PLANT NPW PUMP NO. 1 DISCHARGE ISOLATION	VER	
GR-PN04 NEW	4" PINCH VALVE FLANGE	EXISTING CLASSIFIER AREA NEW CLASSIFIER AREA	GRIT PUMP NO. 2 DISCHARGE ISOLATION GRIT PUMP NO. 3 SUCTION	HANDWHEEL NUT GEAR OPERATOR, ELECTRIC ACTUATOR		NPW-PV05 I		4" PLUG VALVE " CHECK VALVE	FLANGE	BASEMENT LEVEL BASEMENT LEVEL	PLANT NPW PUMP NO. 2 SUCTION ISOLATION PLANT NPW PUMP NO. 2 DISCHARGE	T LED	
GR-PN05 NEW GR-PN06 NEW	4" PINCH VALVE FLANGE 4" PINCH VALVE FLANGE	NEW CLASSIFIER AREA	GRIT PUMP NO. 3 DISCHARGE ISOLATION	HANDWHEEL HANDWHEEL				1" PLUG VALVE	FLANGE FLANGE	BASEMENT LEVEL	PLANT NPW PUMP NO. 2 DISCHARGE PLANT NPW PUMP NO. 2 DISCHARGE ISOLATION	LEVER .	
GR-PV01 NEW	30" PLUG VALVE FLANGE	HEADWORKS BUILDING	HEADWORKS EFFLUENT FLOW CONTROL	NUT GEAR OPERATOR, ELECTRIC ACTUATOR		NPW-PV07	NEW 4	4" PLUG VALVE	FLANGE	BASEMENT LEVEL	PLANT NPW PUMP NO. 3 SUCTION ISOLATION	LEVER	
DR-PV05 <b>EXISTING</b>	6" PLUG VALVE MJ	YARD	PLANT DRAIN PUMP STATION DISCHARGE ISOLATION  OXIDATION DITCHES	NUT EXT. STEM, VALVE BOX & COVER		NPW-CV03 I		" CHECK VALVE 4" PLUG VALVE	FLANGE	BASEMENT LEVEL BASEMENT LEVEL	PLANT NPW PUMP NO. 3 DISCHAPES PLANT NPW PUMP NO. 3 DISCHARGE SOLUTION	LEVER	
ODA DVO4	8" BILIO VALVE - 51 AND 5	EVICTING OVIDATION DITOUNG 4		NUT CEAR OBERATOR ELECTRIC ACTUATOR	METAL SEATED FOR AIR SERVICE, PROVIDED BY	NPW-PV08		5" PLUG VALVE	FLANGE FLANGE			1 1	
ODA-PV01 NEW	8" PLUG VALVE FLANGE	EXISTING OXIDATION DITCH NO. 1	OXIDATION DITCH NO. 1 AIR FLOW CONTROL	NUT GEAR OPERATOR, ELECTRIC ACTUATOR	OXIDATION DITCH EQUIPMENT MANUFACTURER.					MAIN LEVEL	PLANT NPW FILTER UPST CAM IS TO A	LEVER	
ODA-BFV07 NEW	8" BUTTERFLY VALVE WAFER	EXISTING OXIDATION DITCH NO. 1	WEST DIFFUSER GRID DROP PIPE ISOLATION	HANDWHEEL GEAR OPERATOR	AIR SERVICE. PROVIDED BY OXIDATION DITCH EQUIPMENT MANUFACTURER	NPW-PV10	NEW	6" PLUG VALVE	FLANGE	MAIN LEVEL	PLANT NPW BYPASS RAINER CELEAM ISOLATION	LEVER	
ODA-BFV08 NEW	8" BUTTERFLY VALVE WAFER	EXISTING OXIDATION DITCH NO. 1	EAST DIFFUSER GRID DROP PIPE ISOLATION	HANDWHEEL GEAR OPERATOR	AIR SERVICE. PROVIDED BY OXIDATION DITCH	NP\M_P\/11	6	6" PLUG VALVE	FLANGE	MAIN LEVEL	PLANT HSW I TER WINSTREAM ISOLATION	LEVER	
ODA DVOO NEW	01.51.10.141.15			NUT OF AD OPERATOR SUFORDINA ACTUATOR	EQUIPMENT MANUFACTURER  METAL SEATED FOR AIR SERVICE. PROVIDED BY		NEW 6	6" PLUG VALVE	FLANGE				
ODA-PV02 NEW	8" PLUG VALVE FLANGE	EXISTING OXIDATION DITCH NO. 2	OXIDATION DITCH NO. 2 AIR FLOW CONTROL	NUT GEAR OPERATOR, ELECTRIC ACTUATOR	OXIDATION DITCH EQUIPMENT MANUFACTURER.	NPW-PV12	NEW			MAIN LEVEL	PLÁN NPI BYPI S STRAV ZR DOWNSTREAM ISOLATION	LEVER	
ODA-BFV09 NEW	8" BUTTERFLY VALVE WAFER	EXISTING OXIDATION DITCH NO. 2	WEST DIFFUSER GRID DROP PIPE ISOLATION	HANDWHEEL GEAR OPERATOR	AIR SERVICE. PROVIDED BY OXIDATION DITCH EQUIPMENT MANUFACTURER						SOLIDS HOLDING TANKS / BUILD	DING	
ODA-BFV10 NEW	8" BUTTERFLY VALVE WAFER	EXISTING OXIDATION DITCH NO. 2	EAST DIFFUSER GRID DROP PIPE ISOLATION	HANDWHEEL GEAR OPERATOR	AIR SERVICE. PROVIDED BY OXIDATION DITCH	SHT-PV01	NEW 6	5" PLUG VALVE	MJ	YARD	SUDGE HOLDING TANK NO. 1 TWAS INFLUENT ISOLATION	NUT EXT. STEM, VALVE BOX & COVER	
ODA-PV03 NEW	OII DI LIO VALVE ELANGE	NEW OMBATION DITOUNO 2	OVERATION DITCH NO. 2 AID FLOW CONTROL	NUT GEAR OPERATOR, ELECTRIC ACTUATOR	EQUIPMENT MANUFACTURER  METAL SEATED FOR AIR SERVICE, PROVIDED BY	SHT-PV02			N4.1	YARD	CLUDGE LIGHTING TANK NO. 2 THAT INFILITATE COLUMNS	NUI	
	8" PLUG VALVE FLANGE	NEW OXIDATION DITCH NO. 3	OXIDATION DITCH NO. 3 AIR FLOW CONTROL		OXIDATION DITCH EQUIPMENT MANUFACTURER.  AIR SERVICE. PROVIDED BY OXIDATION DITCH			6" PLUG VALVE	IVIJ	TARL		NUT EXT. STEM, VALVE BOX & COVER	
ODA-BFV11 NEW	8" BUTTERFLY VALVE WAFER	NEW OXIDATION DITCH NO. 3	WEST DIFFUSER GRID DROP PIPE ISOLATION	HANDWHEEL GEAR OPERATOR	EQUIPMENT MANUFACTURER	SHT-PV03	NEW 6	6" PLUG VALVE	MJ	YAP	SLUDGE HOLDING TANK NO. 3 TWAS INFLUENT ISOLATION	NUT EXT. STEM, VALVE BOX & COVER	
ODA-BFV12 NEW	8" BUTTERFLY VALVE WAFER	NEW OXIDATION DITCH NO. 3	EAST DIFFUSER GRID DROP PIPE ISOLATION	HANDWHEEL GEAR OPERATOR	AIR SERVICE. PROVIDED BY OXIDATION DITCH EQUIPMENT MANUFACTURER	SHT-PV04	NEW 8	B" PLUG VALVE	FLANGE	SI DGE OLL IG TANK NO. 1	SLUDGE HOLDING TANK NO.1 DRAIN ISOLATION	HANDWHEEL GEAR OPERATOR, EXT. STEM	
ODP-PV01 NEW	30" PLUG VALVE MJ	YARD	OXIDATION DITCH NO. 1 EFFLUENT PIPE ISOLATION	NUT EXT. STEM, VALVE BOX & COVER	EQUI MENT MANAGEMENT		NEW 8	B" PLUG VALVE	MJ	YARD (ARD	SLUDGE HOLDING TANK NO. 1 EFFLUENT ISOLATION	NUT EXT. STEM, VALVE BOX & COVER	
RAS-PV17 NEW	18" PLUG VALVE MJ	YARD	OXIDATION DITCH NO. 1 & 2 RAS INFLUENT	NUT EXT. STEM, VALVE BOX & COVER					3244				
RAS-PV18 NEW								SUTTERFLY VALVE	MATER	BLC / ER ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 INTAKE ISOLATION	CHAINWHEEL GEAR OPERATOR	
	18" PLUG VALVE MJ	YARD	OXIDATION DITCH NO. 3 RAS INFLUENT	NUT EXT. STEM, VALVE BOX & COVER		SHT-BFV02	NEW 6" B	BUTTERFLY VALVE	MA R	BLOWER ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION	CHAINWHEEL GEAR OPERATOR	
DR-PV06 EXISTING DR-PV07 EXISTING		YARD YARD YARD		NUT EXT. STEM, VALVE BOX & COVER  NUT EXT. STEM, VALVE BOX & COVER  NUT EXT. STEM, VALVE BOX & COVER		SHT-BFV02 I SHT-BFV03 I SHT-BFV04 I	NEW 6" B		WA R				
DR-PV06 EXISTING DR-PV07 EXISTING DR-PV08 NEW	18" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ	YARD YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE	NUT EXT. STEM, VALVE BOX & COVER		SHT-BFV02 I SHT-BFV03 I SHT-BFV04 I SHT-BFV05 I	NEW         6" B           NEW         6" B           NEW         6" B           NEW         6" B	BUTTERFLY VALVE	WAFER WAFER	BLOWER ROOM BLOWER ROOM BLOWER ROOM BLOWER ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION	CHAINWHEEL GEAR OPERATOR CHAINWHEEL GEAR OPERATOR CHAINWHEEL GEAR OPERATOR CHAINWHEEL GEAR OPERATOR	
DR-PV06 EXISTING DR-PV07 EXISTING	18" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ	YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 4 DRAIN LINE	NUT EXT. STEM, VALVE BOX & COVER  NUT EXT. STEM, VALVE BOX & COVER  NUT EXT. STEM, VALVE BOX & COVER		SHT-BFV02 I SHT-BFV03 I SHT-BFV04 I SHT-BFV05 I SHT-BFV06 I	NEW 6" B NEW 6" B	BUTTERFLY VALVE	WAFER WAFER WAFER	BLOWER ROOM BLOWER ROOM BLOWER ROOM BLOWER ROOM BLOWER ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION	CHAINWHEEL GEAR OPERATOR	
DR-PV06 EXISTING DR-PV07 EXISTING DR-PV08 NEW	18" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ	YARD YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 4 DRAIN LINE UV STRUCTURE NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 1	NUT EXT. STEM, VALVE BOX & COVER		SHT-BFV02 I SHT-BFV03 I SHT-BFV04 I SHT-BFV05 I	NEW         6" B           NEW         6" B           NEW         6" B           NEW         6" B	BUTTERFLY VALVE	WAFER WAFER WAFER WAFER WAFER	BLOWER ROOM BLOWER ROOM BLOWER ROOM BLOWER ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION	CHAINWHEEL GEAR OPERATOR N CHAINWHEEL GEAR OPERATOR	
DR-PV06 <b>EXISTING</b> DR-PV07 <b>EXISTING</b> DR-PV08 NEW DR-PV09 NEW  NPW-PV01 NEW NPW-PV02 NEW	18" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 10" PLUG VALVE MJ	YARD YARD YARD YARD YARD YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 4 DRAIN LINE  UV STRUCTURE  NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 1 NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 2	NUT EXT. STEM, VALVE BOX & COVER		SHT-BFV02 I SHT-BFV03 I SHT-BFV04 I SHT-BFV05 I SHT-BFV06 SHT-BFV07 I	NEW 6" B	SUTTERFLY VALVE SUTTERFLY VALVE SUTTERFLY VALVE SUTTERFLY VALVE SUTTERFLY VALVE SUTTERFLY VALVE	WAFER	BLOWER ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER 1 & 2 DISCHARGE HEADER ISOLATIO SLUDGE HOLDING BUILDING BLOWER 2 & 3 DISCHARGE HEADER ISOLATIO SOLIDS PROCESS BUILDING	CHAINWHEEL GEAR OPERATOR N CHAINWHEEL GEAR OPERATOR N CHAINWHEEL GEAR OPERATOR N CHAINWHEEL GEAR OPERATOR	
DR-PV06 EXISTING DR-PV07 EXISTING DR-PV08 NEW DR-PV09 NEW  NPW-PV01 NEW NPW-PV02 NEW DR-PV10 EXISTING	18" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 10" PLUG VALVE MJ 10" PLUG VALVE MJ 4" PLUG VALVE MJ	YARD YARD YARD YARD YARD YARD YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 4 DRAIN LINE  UV STRUCTURE  NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 1 NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 2 UV BYPASS CHANNEL DRAIN LINE	NUT EXT. STEM, VALVE BOX & COVER		SHT-BFV02 I SHT-BFV03 I SHT-BFV04 I SHT-BFV05 I SHT-BFV06 SHT-BFV07 I	NEW 6" B	SUTTERFLY VALVE	WAFER	BLOWER ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER 1 & 2 DISCHARGE HEADER ISOLATIO SLUDGE HOLDING BUILDING BLOWER 2 & 3 DISCHARGE HEADER ISOLATIO SOLIDS PROCESS BUILDING SLUDGE HOLDING TANK NO. 1 ALTERNATE EFFLUENT ISOLATION	CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR	
DR-PV06 <b>EXISTING</b> DR-PV07 <b>EXISTING</b> DR-PV08 NEW DR-PV09 NEW  NPW-PV01 NEW NPW-PV02 NEW	18" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 10" PLUG VALVE MJ	YARD YARD YARD YARD YARD YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 4 DRAIN LINE  UV STRUCTURE  NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 1 NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 2	NUT EXT. STEM, VALVE BOX & COVER		SHT-BFV02 I SHT-BFV03 I SHT-BFV04 I SHT-BFV05 I SHT-BFV06 SHT-BFV07 I	NEW 6" B	SUTTERFLY VALVE SUTTERFLY VALVE SUTTERFLY VALVE SUTTERFLY VALVE SUTTERFLY VALVE SUTTERFLY VALVE	WAFER	BLOWER ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER 1 & 2 DISCHARGE HEADER ISOLATIO SLUDGE HOLDING BUILDING BLOWER 2 & 3 DISCHARGE HEADER ISOLATIO SOLIDS PROCESS BUILDING	CHAINWHEEL GEAR OPERATOR N CHAINWHEEL GEAR OPERATOR N CHAINWHEEL GEAR OPERATOR N CHAINWHEEL GEAR OPERATOR	
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DR-PV06 EXISTING DR-PV07 EXISTING DR-PV08 NEW DR-PV09 NEW  NPW-PV01 NEW NPW-PV02 NEW DR-PV10 EXISTING DR-PV11 EXISTING DR-PV12 NEW  RAS-PV01 NEW	18" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 10" PLUG VALVE MJ 10" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 10" PLUG VALVE MJ 10" PLUG VALVE MJ	YARD YARD YARD YARD YARD YARD YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 4 DRAIN LINE  UV STRUCTURE  NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 1 NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 2 UV BYPASS CHANNEL DRAIN LINE UV CHANNEL NO. 1 DRAIN LINE UV CHANNEL NO. 2 DRAIN LINE UV CHANNEL NO. 2 DRAIN LINE SECONDARY CONTROL BUILDING RAS PUMP NO. 1 SUCTION ISOLATION	NUT EXT. STEM, VALVE BOX & COVER		SHT-BFV02 I SHT-BFV03 I SHT-BFV04 I SHT-BFV05 I SHT-BFV06 SHT-BFV07 I	NEW 6" B	SUTTERFLY VALVE SUTTERFLY VALV	WAFER  FLANGE FLANGE FLANGE FLANGE FLANGE	BLOWER ROOM PUMP ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER 1 & 2 DISCHARGE HEADER ISOLATIO SLUDGE HOLDING BUILDING BLOWER 2 & 3 DISCHARGE HEADER ISOLATIO SOLIDS PROCESS BUILDING SLUDGE HOLDING TANK NO. 1 ALTERNATE EFFLUENT ISOLATION SLUDGE HOLDING TANK 3A INFLUENT ISOLATION SLUDGE HOLDING TANK 3B INFLUENT ISOLATION DEWATERING FEED PUMP NO. 1 (SOUTH, SHT 3A) SUCTION ISOLATION DEWATERING FEED PUMP NO. 1 (SOUTH, SHT 3A) DISCHARGE ISOLATION	CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  OUT GEAR OPERATOR  NUT GEAR OPERATOR, ELECTRIC ACTUATOR  LEVER  LEVER	
DR-PV06 EXISTING DR-PV07 EXISTING DR-PV08 NEW DR-PV09 NEW  NPW-PV01 NEW NPW-PV02 NEW DR-PV10 EXISTING DR-PV11 EXISTING DR-PV12 NEW	18" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 10" PLUG VALVE MJ 10" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ	YARD YARD YARD YARD YARD YARD YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 4 DRAIN LINE  UV STRUCTURE  NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 1 NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 2 UV BYPASS CHANNEL DRAIN LINE UV CHANNEL NO. 1 DRAIN LINE UV CHANNEL NO. 2 DRAIN LINE SECONDARY CONTROL BUILDING	NUT EXT. STEM, VALVE BOX & COVER		SHT-BFV02 SHT-BFV03 SHT-BFV04 SHT-BFV05 SHT-BFV06 SHT-BFV07 SHT-BFV08  SHT-PV06 SHT-PV06 SHT-PV07 SHT-PV07 SHT-PV07	NEW 6" B NEW	SUTTERFLY VALVE SUTTERFLY VALV	WAFER  FLANGE FLANGE FLANGE FLANGE	BLOWER ROOM PUMP ROOM PUMP ROOM PUMP ROOM PUMP ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER 1 & 2 DISCHARGE HEADER ISOLATIO SLUDGE HOLDING BUILDING BLOWER 2 & 3 DISCHARGE HEADER ISOLATIO SOLIDS PROCESS BUILDING SLUDGE HOLDING TANK NO. 1 ALTERNATE EFFLUENT ISOLATION SLUDGE HOLDING TANK 3A INFLUENT ISOLATION SLUDGE HOLDING TANK 3B INFLUENT ISOLATION DEWATERING FEED PUMP NO. 1 (SOUTH, SHT 3A) SUCTION ISOLATION	CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  NUT GEAR OPERATOR  NUT GEAR OPERATOR, ELECTRIC ACTUATOR  NUT GEAR OPERATOR, ELECTRIC ACTUATOR  LEVER  LEVER  LEVER	
DR-PV06 EXISTING DR-PV07 EXISTING DR-PV08 NEW DR-PV09 NEW  NPW-PV01 NEW NPW-PV02 NEW DR-PV10 EXISTING DR-PV11 EXISTING DR-PV12 NEW  RAS-PV01 NEW RAS-PV01 NEW RAS-PV02 NEW RAS-PV03 NEW	18" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 10" PLUG VALVE MJ 10" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 10" PLUG VALVE FLANGE 10" CHECK VALVE FLANGE 10" PLUG VALVE FLANGE	YARD YARD YARD YARD YARD YARD YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 4 DRAIN LINE  UV STRUCTURE  NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 1 NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 2 UV BYPASS CHANNEL DRAIN LINE UV CHANNEL NO. 1 DRAIN LINE UV CHANNEL NO. 2 DRAIN LINE UV CHANNEL NO. 2 DRAIN LINE SECONDARY CONTROL BUILDING RAS PUMP NO. 1 DISCHARGE RAS PUMP NO. 1 DISCHARGE RAS PUMP NO. 2 SUCTION ISOLATION RAS PUMP NO. 2 SUCTION ISOLATION	NUT EXT. STEM, VALVE BOX & COVER  HANDWHEEL GEAR OPERATOR  HANDWHEEL GEAR OPERATOR  HANDWHEEL GEAR OPERATOR		SHT-BFV02 SHT-BFV03 SHT-BFV04 SHT-BFV05 SHT-BFV06 SHT-BFV07 SHT-BFV08  SHT-PV06 SHT-PV07 SHT-	NEW 6" B NEW	SUTTERFLY VALVE SUTTERFLY VALV	WAFER  FLANGE	BLOWER ROOM PUMP ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER 1 & 2 DISCHARGE HEADER ISOLATION SLUDGE HOLDING BUILDING BLOWER 2 & 3 DISCHARGE HEADER ISOLATIO SOLIDS PROCESS BUILDING SLUDGE HOLDING TANK NO. 1 ALTERNATE EFFLUENT ISOLATION SLUDGE HOLDING TANK 3A INFLUENT ISOLATION SLUDGE HOLDING TANK 3B INFLUENT ISOLATION DEWATERING FEED PUMP NO. 1 (SOUTH, SHT 3A) SUCTION ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) SUCTION ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION	CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  NUT GEAR OPERATOR, ELECTRIC ACTUATOR  NUT GEAR OPERATOR, ELECTRIC ACTUATOR  LEVER  LEVER  LEVER  LEVER  CHAINWHEEL GEAR OPERATOR	EXISTING VALVE TO BE RELOCATED
DR-PV06 EXISTING DR-PV07 EXISTING DR-PV08 NEW DR-PV09 NEW  NPW-PV01 NEW NPW-PV02 NEW DR-PV10 EXISTING DR-PV11 EXISTING DR-PV12 NEW  RAS-PV01 NEW RAS-PV01 NEW RAS-PV02 NEW RAS-PV02 NEW RAS-PV03 NEW RAS-CV02 NEW	18" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 10" PLUG VALVE MJ 10" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 10" PLUG VALVE FLANGE 10" CHECK VALVE FLANGE 10" CHECK VALVE FLANGE	YARD YARD YARD YARD YARD YARD YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 4 DRAIN LINE  UV STRUCTURE  NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 1 NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 2 UV BYPASS CHANNEL DRAIN LINE UV CHANNEL NO. 1 DRAIN LINE UV CHANNEL NO. 2 DRAIN LINE UV CHANNEL NO. 2 DRAIN LINE  SECONDARY CONTROL BUILDING  RAS PUMP NO. 1 DISCHARGE  RAS PUMP NO. 1 DISCHARGE  RAS PUMP NO. 2 DISCHARGE	NUT EXT. STEM, VALVE BOX & COVER  HANDWHEEL GEAR OPERATOR  HANDWHEEL GEAR OPERATOR  HANDWHEEL GEAR OPERATOR  HANDWHEEL GEAR OPERATOR		SHT-BFV02 SHT-BFV03 SHT-BFV04 SHT-BFV05 SHT-BFV06 SHT-BFV07 SHT-BFV08  SHT-PV06 SHT-PV07 ST-P 8 DF-PV03 DFP-PV04 DFP-PV05 EX DFP-PV06 EX	NEW 6" B NEW	SUTTERFLY VALVE SUTTERFLY VALV	FLANGE	BLOWER ROOM PUMP ROOM PRESS ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER 1 & 2 DISCHARGE HEADER ISOLATION SLUDGE HOLDING BUILDING BLOWER 2 & 3 DISCHARGE HEADER ISOLATIO SOLIDS PROCESS BUILDING SLUDGE HOLDING TANK NO. 1 ALTERNATE EFFLUENT ISOLATION SLUDGE HOLDING TANK 3A INFLUENT ISOLATION SLUDGE HOLDING TANK 3B INFLUENT ISOLATION DEWATERING FEED PUMP NO. 1 (SOUTH, SHT 3A) SUCTION ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) SUCTION ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION	CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  NUT GEAR OPERATOR, ELECTRIC ACTUATOR  NUT GEAR OPERATOR, ELECTRIC ACTUATOR  LEVER  LEVER  LEVER  LEVER  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR	EXISTING VALVE TO BE RELOCATED
DR-PV06 EXISTING DR-PV07 EXISTING DR-PV08 NEW DR-PV09 NEW  NPW-PV01 NEW NPW-PV02 NEW DR-PV10 EXISTING DR-PV11 EXISTING DR-PV12 NEW  RAS-PV01 NEW RAS-PV01 NEW RAS-PV02 NEW RAS-PV03 NEW	18" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 6" PLUG VALVE MJ 10" PLUG VALVE MJ 10" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 10" PLUG VALVE FLANGE 10" CHECK VALVE FLANGE 10" PLUG VALVE FLANGE	YARD YARD YARD YARD YARD YARD YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 4 DRAIN LINE  UV STRUCTURE  NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 1 NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 2 UV BYPASS CHANNEL DRAIN LINE UV CHANNEL NO. 1 DRAIN LINE UV CHANNEL NO. 2 DRAIN LINE UV CHANNEL NO. 2 DRAIN LINE SECONDARY CONTROL BUILDING RAS PUMP NO. 1 DISCHARGE RAS PUMP NO. 1 DISCHARGE RAS PUMP NO. 2 SUCTION ISOLATION RAS PUMP NO. 2 SUCTION ISOLATION	NUT EXT. STEM, VALVE BOX & COVER  HANDWHEEL GEAR OPERATOR  HANDWHEEL GEAR OPERATOR  HANDWHEEL GEAR OPERATOR		SHT-BFV02 SHT-BFV03 SHT-BFV04 SHT-BFV05 SHT-BFV06 SHT-BFV07 SHT-BFV08  SHT-PV06 SHT-PV07 SHT-PV07 SHT-PV07 SHT-PV03 DFP-PV04 DFP-PV05 DFP-PV06 EX DFP-PV07 EX	NEW 6" B NEW	SUTTERFLY VALVE SUTTERFLY VALV	WAFER  FLANGE	BLOWER ROOM PUMP ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER 1 & 2 DISCHARGE HEADER ISOLATION SLUDGE HOLDING BUILDING BLOWER 2 & 3 DISCHARGE HEADER ISOLATIO SOLIDS PROCESS BUILDING SLUDGE HOLDING TANK NO. 1 ALTERNATE EFFLUENT ISOLATION SLUDGE HOLDING TANK 3A INFLUENT ISOLATION SLUDGE HOLDING TANK 3B INFLUENT ISOLATION DEWATERING FEED PUMP NO. 1 (SOUTH, SHT 3A) SUCTION ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) SUCTION ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION	CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  N CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  NUT GEAR OPERATOR, ELECTRIC ACTUATOR  NUT GEAR OPERATOR, ELECTRIC ACTUATOR  LEVER  LEVER  LEVER  LEVER  CHAINWHEEL GEAR OPERATOR	EXISTING VALVE TO BE RELOCATED  TO BE COORDINATED WITH SCREW PRESS MANUFACTURER
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DR-PV06 EXISTING DR-PV07 EXISTING DR-PV08 NEW DR-PV09 NEW  NPW-PV01 NEW NPW-PV02 NEW DR-PV10 EXISTING DR-PV11 EXISTING DR-PV11 NEW RAS-PV01 NEW RAS-PV02 NEW RAS-PV02 NEW RAS-PV03 NEW RAS-PV03 NEW RAS-PV04 NEW RAS-PV05 NEW RAS-PV05 NEW RAS-PV06 NEW RAS-PV07 NEW RAS-PV07 NEW RAS-PV08 NEW RAS-PV09 NEW RAS-PV09 NEW RAS-PV09 NEW RAS-PV09 NEW RAS-PV09 NEW RAS-PV10 NEW RAS-PV10 NEW RAS-PV10 NEW RAS-PV11 NEW RAS-PV11 NEW RAS-PV12 NEW RAS-PV12 NEW RAS-PV12 NEW RAS-PV13 EXISTING	18" PLUG VALVE MJ 6" PLUG VALVE MJ 10" PLUG VALVE MJ 10" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 10" PLUG VALVE FLANGE 10" CHECK VALVE FLANGE 10" PLUG VALVE FLANGE	YARD YARD YARD YARD YARD YARD YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 4 DRAIN LINE  OXIDATION DITCH NO. 4 DRAIN LINE  UV STRUCTURE  NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 1 NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 2  UV BYPASS CHANNEL DRAIN LINE  UV CHANNEL NO. 1 DRAIN LINE  UV CHANNEL NO. 2 DRAIN LINE  SECONDARY CONTROL BUILDING  RAS PUMP NO. 1 SUCTION ISOLATION  RAS PUMP NO. 1 DISCHARGE  RAS PUMP NO. 1 DISCHARGE ISOLATION  RAS PUMP NO. 2 SUCTION ISOLATION  RAS PUMP NO. 2 DISCHARGE  RAS PUMP NO. 3 DISCHARGE  RAS PUMP NO. 3 DISCHARGE  RAS PUMP NO. 3 DISCHARGE  RAS PUMP NO. 4 SUCTION ISOLATION  RAS PUMP NO. 4 SUCTION ISOLATION  RAS PUMP NO. 4 DISCHARGE  RAS PUMP NO. 5 DISCHARGE  RAS PUMP NO. 6 DISCHARGE	NUT EXT. STEM, VALVE BOX & COVER  HANDWHEEL GEAR OPERATOR  HANDWHEEL GEAR OPERATOR GEAR OPERATOR HANDWHEEL GEAR OPERATOR HANDWHEEL GEAR OPERATOR HANDWHEEL GEAR OPERATOR GEAR OPERATOR HANDWHEEL GEAR OPERATOR GEAR OPERATOR HANDWHEEL GEAR OPERATOR GEAR OPERATOR GEAR OPERATOR HANDWHEEL GEAR OPERATOR		SHT-BFV02 SHT-BFV03 SHT-BFV04 SHT-BFV05 SHT-BFV06 SHT-BFV07 SHT-BFV08  SHT-PV06 SHT-PV07 ST-PV03 DFP-PV04 DFP-PV05 DFP-PV07 DFP-PV07 SHT-BFV10 SHT-BFV10 SHT-BFV11 SHT-BFV11 SHT-BFV12 SHT-BFV12 SHT-BFV14  ODA-BFV01 ODA-CV01 ODA-CV02 ODA-BFV04	NEW 6" B NEW 8 NEW 9 NEW 9 NEW 4" B NEW 10" B NEW 10" B NEW 10" B	SUTTERFLY VALVE	WAFER  FLANGE THREADED WAFER	BLOWER ROOM PUMP ROOM PRESS ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER 1 & 2 DISCHARGE HEADER ISOLATION SLUDGE HOLDING BUILDING BLOWER 2 & 3 DISCHARGE HEADER ISOLATIO SOLIDS PROCESS BUILDING SLUDGE HOLDING TANK NO. 1 ALTERNATE EFFLUENT ISOLATION SLUDGE HOLDING TANK 3A INFLUENT ISOLATION SLUDGE HOLDING TANK 3B INFLUENT ISOLATION DEWATERING FEED PUMP NO. 1 (SOUTH, SHT 3A) SUCTION ISOLATION DEWATERING FEED PUMP NO. 1 (SOUTH, SHT 3A) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION SCREW PRESS FEED PIPE ISOLATION BELT FILTER PRESS FEED PIPE ISOLATION DEWATERING INFLUENT CROSSOVER PIPE ISOLATION SCREW PRESS INFLUENT BOX DRAIN ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 1 INTAKE ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SUDGE HOLDING TANK NO. 3A AIR ISOLATION SUDGE HOLDING TANK NO. 3B AIR ISOLATION SUDGE HOLDING TANK NO. 3B AIR ISOLATION OXIDATION DITCH BLOWER NO. 1 DISCHARGE ISOLATION OXIDATION DITCH BLOWER NO. 2 INTAKE ISOLATION	CHAINWHEEL GEAR OPERATOR N CHAINWHEEL GEAR OPERATOR N CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  NUT GEAR OPERATOR  NUT GEAR OPERATOR, ELECTRIC ACTUATOR  RUT GEAR OPERATOR, ELECTRIC ACTUATOR  LEVER LEVER LEVER CHAINWHEEL GEAR OPERATOR CHAINWHEEL GEAR OPERATOR CHAINWHEEL GEAR OPERATOR CHAINWHEEL GEAR OPERATOR LEVER HANDWHEEL GEAR OPERATOR CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR	TO BE COORDINATED WITH SCREW PRESS MANUFACTURER  PROVIDED BY BLOWER MANUFACTURER; WITHIN BLOWER ENCLOSURE.  PROVIDED BY BLOWER MANUFACTURER; WITHIN BLOWER
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DR-PV06 EXISTING DR-PV07 EXISTING DR-PV08 NEW DR-PV09 NEW  NPW-PV01 NEW NPW-PV02 NEW DR-PV10 EXISTING DR-PV11 EXISTING DR-PV11 EXISTING DR-PV12 NEW  RAS-PV01 NEW RAS-PV02 NEW RAS-PV02 NEW RAS-PV03 NEW RAS-PV03 NEW RAS-PV04 NEW RAS-PV05 NEW RAS-PV06 NEW RAS-PV07 NEW RAS-PV07 NEW RAS-PV08 NEW RAS-PV09 NEW RAS-PV09 NEW RAS-PV09 NEW RAS-PV10 NEW RAS-PV10 NEW RAS-PV11 NEW RAS-PV11 NEW RAS-PV11 NEW RAS-PV11 NEW RAS-PV11 NEW RAS-PV12 NEW RAS-PV13 EXISTING RAS-PV14 EXISTING RAS-PV15 NEW RAS-PV16 EXISTING	18" PLUG VALVE MJ 6" PLUG VALVE MJ 10" PLUG VALVE MJ 10" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 10" PLUG VALVE FLANGE 10" CHECK VALVE FLANGE 10" PLUG VALVE FLANGE	YARD YARD YARD YARD YARD YARD YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 4 DRAIN LINE  UV STRUCTURE  NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 1 NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 2  UV BYPASS CHANNEL DRAIN LINE UV CHANNEL NO. 1 DRAIN LINE UV CHANNEL NO. 1 DRAIN LINE UV CHANNEL NO. 2 DRAIN LINE  SECONDARY CONTROL BUILDING  RAS PUMP NO. 1 SUCTION ISOLATION RAS PUMP NO. 1 DISCHARGE RAS PUMP NO. 1 DISCHARGE RAS PUMP NO. 2 DISCHARGE RAS PUMP NO. 2 DISCHARGE RAS PUMP NO. 3 SUCTION ISOLATION RAS PUMP NO. 3 SUCTION ISOLATION RAS PUMP NO. 3 DISCHARGE RAS PUMP NO. 3 DISCHARGE RAS PUMP NO. 4 SUCTION ISOLATION RAS PUMP NO. 4 DISCHARGE RAS PUMP NO. 4 DISCHARGE RAS PUMP NO. 5 DISCHARGE RAS PUMP NO. 6 DISCHARGE ISOLATION RAS PUMP 1 & 2 SUCTION HEADER ISOLATION RAS PUMP 1 & 2 SUCTION HEADER ISOLATION RAS PUMP 1 & 5 GUCTION HEADER ISOLATION RAS PUMP 1 & 6 SUCTION HEADER ISOLATION RAS FLOW METER DOWNSTREAM ISOLATION PLANT DRAIN PUMP NO. 1 SUCTION ISOLATION	NUT EXT. STEM, VALVE BOX & COVER HANDWHEEL GEAR OPERATOR  HANDWHEEL GEAR OPERATOR		SHT-BFV02 SHT-BFV03 SHT-BFV04 SHT-BFV05 SHT-BFV06 SHT-BFV07 SHT-BFV08  SHT-PV06 SHT-PV07 ST-P 8 D1-PV2 DF-PV03 DFP-PV04 DFP-PV05 EX DFP-PV06 SHT-BFV10 SHT-BFV10 SHT-BFV10 SHT-BFV11 SHT-BFV11 SHT-BFV12 SHT-BFV14  ODA-BV05 ODA-CV01 ODA-CV01 ODA-CV01 ODA-BFV02 ODA-BFV03 ODA-CV02 ODA-BFV04 ODA-BV05 ODA-CV03	NEW 6" B NEW 8 NEW 6" B NEW 4" B NEW 10" B NE	SUTTERFLY VALVE	FLANGE THREADED WAFER	BLOWER ROOM PUMP ROOM PRESS ROOM BLOWER ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER 1 & 2 DISCHARGE HEADER ISOLATION SLUDGE HOLDING BUILDING BLOWER 2 & 3 DISCHARGE HEADER ISOLATION SOLIDS PROCESS BUILDING SLUDGE HOLDING TANK NO. 1 ALTERNATE EFFLUENT ISOLATION SLUDGE HOLDING TANK NO. 1 ALTERNATE EFFLUENT ISOLATION SLUDGE HOLDING TANK 3B INFLUENT ISOLATION DEWATERING FEED PUMP NO. 1 (SOUTH, SHT 3A) SUCTION ISOLATION DEWATERING FEED PUMP NO. 1 (SOUTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION SCREW PRESS FEED PIPE ISOLATION BELT FILTER PRESS FEED PIPE ISOLATION SCREW PRESS INFLUENT CROSSOVER PIPE ISOLATION SCREW PRESS INFLUENT BOX DRAIN ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 1 INTAKE ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 2 INTAKE ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 2 INTAKE ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 2 DISCHARGE ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 1 DISCHARGE OXIDATION DITCH BLOWER NO. 1 DISCHARGE	CHAINWHEEL	TO BE COORDINATED WITH SCREW PRESS MANUFACTURER  PROVIDED BY BLOWER MANUFACTURER; WITHIN BLOWER ENCLOSURE.  PROVIDED BY BLOWER MANUFACTURER; WITHIN BLOWER ENCLOSURE.
DR-PV06         EXISTING           DR-PV07         EXISTING           DR-PV08         NEW           DR-PV09         NEW           NPW-PV01         NEW           NPW-PV02         NEW           DR-PV10         EXISTING           DR-PV11         EXISTING           DR-PV12         NEW           RAS-PV01         NEW           RAS-PV02         NEW           RAS-PV03         NEW           RAS-PV04         NEW           RAS-PV05         NEW           RAS-PV06         NEW           RAS-PV07         NEW           RAS-PV08         NEW           RAS-PV09         NEW           RAS-PV09         NEW           RAS-PV10         NEW           RAS-PV11         NEW           RAS-PV12         NEW           RAS-PV13         EXISTING           RAS-PV14         EXISTING           DR-PV01         EXISTING           DR-PV01         EXISTING           DR-CV01         EXISTING	18" PLUG VALVE MJ 6" PLUG VALVE MJ 10" PLUG VALVE MJ 10" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 4" PLUG VALVE MJ 10" PLUG VALVE FLANGE 10" CHECK VALVE FLANGE 10" PLUG VALVE FLANGE 16" PLUG VALVE FLANGE	YARD YARD YARD YARD YARD YARD YARD YARD	OXIDATION DITCH NO. 3 RAS INFLUENT OXIDATION DITCH NO. 1 DRAIN LINE OXIDATION DITCH NO. 2 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE OXIDATION DITCH NO. 3 DRAIN LINE UV STRUCTURE  NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 1 NPW DRAW-OFF ISOLATION VALVE - UV CHANNEL NO. 2 UV BYPASS CHANNEL DRAIN LINE UV CHANNEL NO. 1 DRAIN LINE UV CHANNEL NO. 1 DRAIN LINE UV CHANNEL NO. 2 DRAIN LINE UV CHANNEL NO. 1 DRAIN LINE  SECONDARY CONTROL BUILDING  RAS PUMP NO. 1 SUCTION ISOLATION RAS PUMP NO. 1 DISCHARGE RAS PUMP NO. 1 DISCHARGE RAS PUMP NO. 2 SUCTION ISOLATION RAS PUMP NO. 2 SUCTION ISOLATION RAS PUMP NO. 3 DISCHARGE RAS PUMP NO. 4 SUCTION ISOLATION RAS PUMP NO. 4 SUCTION ISOLATION RAS PUMP NO. 4 DISCHARGE RAS PUMP NO. 5 DISCHARGE RAS PUMP NO. 6 DISCHARGE	NUT EXT. STEM, VALVE BOX & COVER HANDWHEEL GEAR OPERATOR		SHT-BFV02 SHT-BFV03 SHT-BFV04 SHT-BFV05 SHT-BFV06 SHT-BFV07 SHT-BFV08  SHT-PV06 SHT-PV07 ST-P 8 DFP-PV03 DFP-PV04 DFP-PV05 DFP-PV07 DFP-PV07 DFP-BV01 SHT-BFV10 SHT-BFV10 SHT-BFV11 SHT-BFV12 SHT-BFV11 SHT-BFV14  ODA-BV11 ODA-CV01 ODA-CV01 ODA-CV02 ODA-BFV04 ODA-BV05 ODA-CV03 ODA-CV03 ODA-CV03 ODA-CV03 ODA-CV03	NEW 6" B NEW 4" B NEW 4" B NEW 4" B NEW 4" B NEW 10" B	SUTTERFLY VALVE	WAFER  FLANGE THREADED WAFER	BLOWER ROOM PUMP ROOM PESS ROOM PRESS ROOM BLOWER ROOM	SLUDGE HOLDING BUILDING BLOWER NO. 1 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 2 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 INTAKE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER NO. 3 DISCHARGE ISOLATION SLUDGE HOLDING BUILDING BLOWER 1 & 2 DISCHARGE HEADER ISOLATIO SOLIDS PROCESS BUILDING SLUDGE HOLDING TANK NO. 1 ALTERNATE EFFLUENT ISOLATION SLUDGE HOLDING TANK AS INFLUENT ISOLATION SLUDGE HOLDING TANK AS INFLUENT ISOLATION SLUDGE HOLDING TANK AS INFLUENT ISOLATION DEWATERING FEED PUMP NO. 1 (SOUTH, SHT 3A) SUCTION ISOLATION DEWATERING FEED PUMP NO. 1 (SOUTH, SHT 3A) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) SUCTION ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING FEED PUMP NO. 2 (NORTH, SHT 3B) DISCHARGE ISOLATION DEWATERING INFLUENT CROSSOVER PIPE ISOLATION DEWATERING INFLUENT CROSSOVER PIPE ISOLATION SCREW PRESS INFLUENT BOX DRAIN ISOLATION SCREW PRESS INFLUENT BOX DRAIN ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 1 INTAKE ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 2 INTAKE ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 2 INTAKE ISOLATION SOLIDS PROCESS BUILDING BLOWER NO. 2 INTAKE ISOLATION SUDGE HOLDING TANK NO. 3A AIR ISOLATION SUDGE HOLDING TANK NO. 3B AIR ISOLATION OXIDATION DITCH BLOWER NO. 1 DISCHARGE ISOLATION OXIDATION DITCH BLOWER NO. 1 DISCHARGE	CHAINWHEEL GEAR OPERATOR N CHAINWHEEL GEAR OPERATOR N CHAINWHEEL GEAR OPERATOR N CHAINWHEEL GEAR OPERATOR NUT GEAR OPERATOR NUT GEAR OPERATOR NUT GEAR OPERATOR NUT GEAR OPERATOR LEVER LEVER LEVER LEVER CHAINWHEEL GEAR OPERATOR  CHAINWHEEL GEAR OPERATOR	TO BE COORDINATED WITH SCREW PRESS MANUFACTURER  PROVIDED BY BLOWER MANUFACTURER; WITHIN BLOWER ENCLOSURE.  PROVIDED BY BLOWER MANUFACTURER; WITHIN BLOWER ENCLOSURE.
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VALVE SCHEDULE NOTES:

1. THIS SCHEDULE LISTS ONLY PROCESS VALVES 3" AND LARGER. THE SCHEDULE DOES NOT GUARANTEE THAT ALL VALVES HAT BEEN SCLUDED, THAT ARE PART OF THIS PROJECT. THE CONTRACTOR SHALL PROVIDE ALL NEW VALVES SHOWN ON THE DRAWINGS OF THE PURPOSE OF BEING RETAGGED, AND DO NOT NEED TO BE REPLACED OR MODIFIED UNLESS NOTED OTHERWISE. THICKENED WAS
SHT SLUDGE HOLDING TANK
DFP DEWATERING FEED PUMPS
EQ EQUALIZATION BASIN

SCALE VERIFICATION	DRAWN BY	CLG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON	CHECKED BY	BRI				
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<b>WASTEWATER</b>	<b>TREATMENT</b>	PLANT	EXPANSION
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CITY OF FRANKLIN, INDIANA

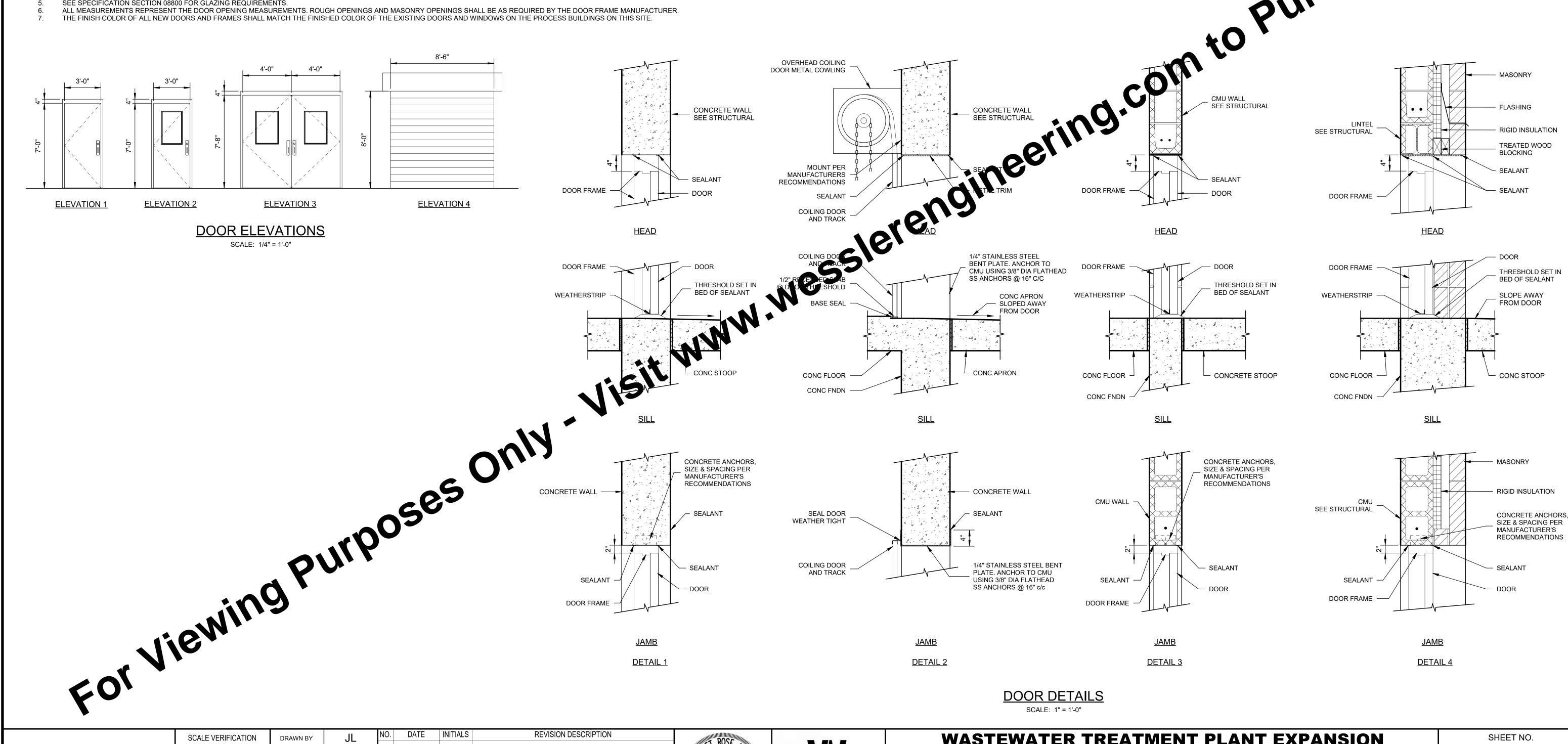
**VALVE SCHEDULE** 

	DOOR SCHEDULE										
MARK	QTY	SIZE WIDTHxHEIGHTxTHICKNESS	DOOR MATERIAL	FRAME MATERIAL	GLAZING	LOCATION	DOOR ELEVATION	DOOR DETAIL	COLOR	HARDWARE	COMMENTS
	1										METER VAULT HATCH
A1	1	3'-0"x7'-0"x1-3/4"	ALUMINUM	ALUMINUM	N/A	HEADWORKS BUILDING - ELECTRICAL ROOM	1	3	BY OWNER	E1	EXTERIOR SINGLE DOOR - NEW ELECTRICAL ROOM
A2	2	3'-0"x7'-0"x1-3/4"	ALUMINUM	ALUMINUM	20"x32"	HEADWORKS BUILDING - CLASSIFIER AREA	2	1	BY OWNER	E1	EXTERIOR SINGLE DOOR - NEW CLASSIFIER AREA MANDOOR
A3	1	8'-6"x8'-0"x(RO)	ALUMINUM	ALUMINUM	N/A	HEADWORKS BUILDING - CLASSIFIER AREA	4	2	BY OWNER	N/A	OVERHEAD DOOR - NEW CLASSIFIER AREA
B1	1	(2)4'-0"x7'-8"-1-3/4"	ALUMINUM	ALUMINUM	20"x32"	BLOWER BUILDING	3	4	BY OWNER	E2	EXTERIOR DOUBLE DOOR - BLOWER ROOM ENTRANCE
B2	1	3'-0"x7'-0"x1-3/4"	ALUMINUM	ALUMINUM	20"x32"	BLOWER BUILDING	2	4	BY OWNER	E3	EXTERIOR SINGLE DOOR - ELECTRICAL TO BLOWER ROOM
В3	1	3'-0"x7'-0"x1-3/4"	ALUMINUM	ALUMINUM	20"x32"	BLOWER BUILDING	2	3	BY OWNER	E1	INTERIOR SINGLE DOOR - ELECTRICAL ROOM ENTRANCE

ROOM FINISH SCHEDULE												
		FL	OOR	V	VALL	CE						
LOCATION	ROOM NAME	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	COMMENTS			
BLOWER BUILDING	ELECTRICAL ROOM	CONCRETE	NON-SKID SMOOTH FINISH	CMU	COATING	POLYETHYLENE CEILING PANELS	N/A	12'-2 1/2"				
BLOWER BUILDING	BLOWER ROOM	CONCRETE	NON-SKID SMOOTH FINISH	CMU	COATING	POLYETHYLENE CEILING PANELS	N/A	12'-2 1/2"				
HEADWORKS BUILDING	CLASSIFIER AREA	CONCRETE	NON-SKID SMOOTH FINISH	CONCRETE	COATING	CONCRETE	COATING	VARIES				
HEADWORKS BUILDING	ELECTRICAL ROOM	CONCRETE	NON-SKID SMOOTH FINISH	CMU	COATING	POLYETHYLENE CEILING	N/A	10'-2 1/2"				

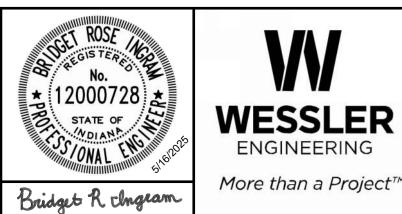
### **DOOR SCHEDULE NOTES:**

- BUILDING REFERENCE CODE A = HEADWORKS BUILDING B = BLOWER BUILDING
- ALL DOORS ARE TO BE KEYED ALIKE. COORDINATE WITH OWNER TO MATCH EXISTING KEY SYSTEM.
- SEE ALUMINUM DOORS AND FRAMES SPECIFICATION SECTION 08120. SEE SPECIFICATION SECTION 08710 FOR HARDWARE DESCRIPTIONS.
- SEE SPECIFICATION SECTION 08800 FOR GLAZING REQUIREMENTS.



**DOOR DETAILS** SCALE: 1" = 1'-0"

SCALE VERIFICATION	DRAWN BY	JL	NO.	DATE	INITIALS	REVISION DESCRIPTION	, muni
	CHECKED BY	MQT					A PROLITION
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	APPROVED BY	BRI					*1
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	PROJECT	NUMBER					
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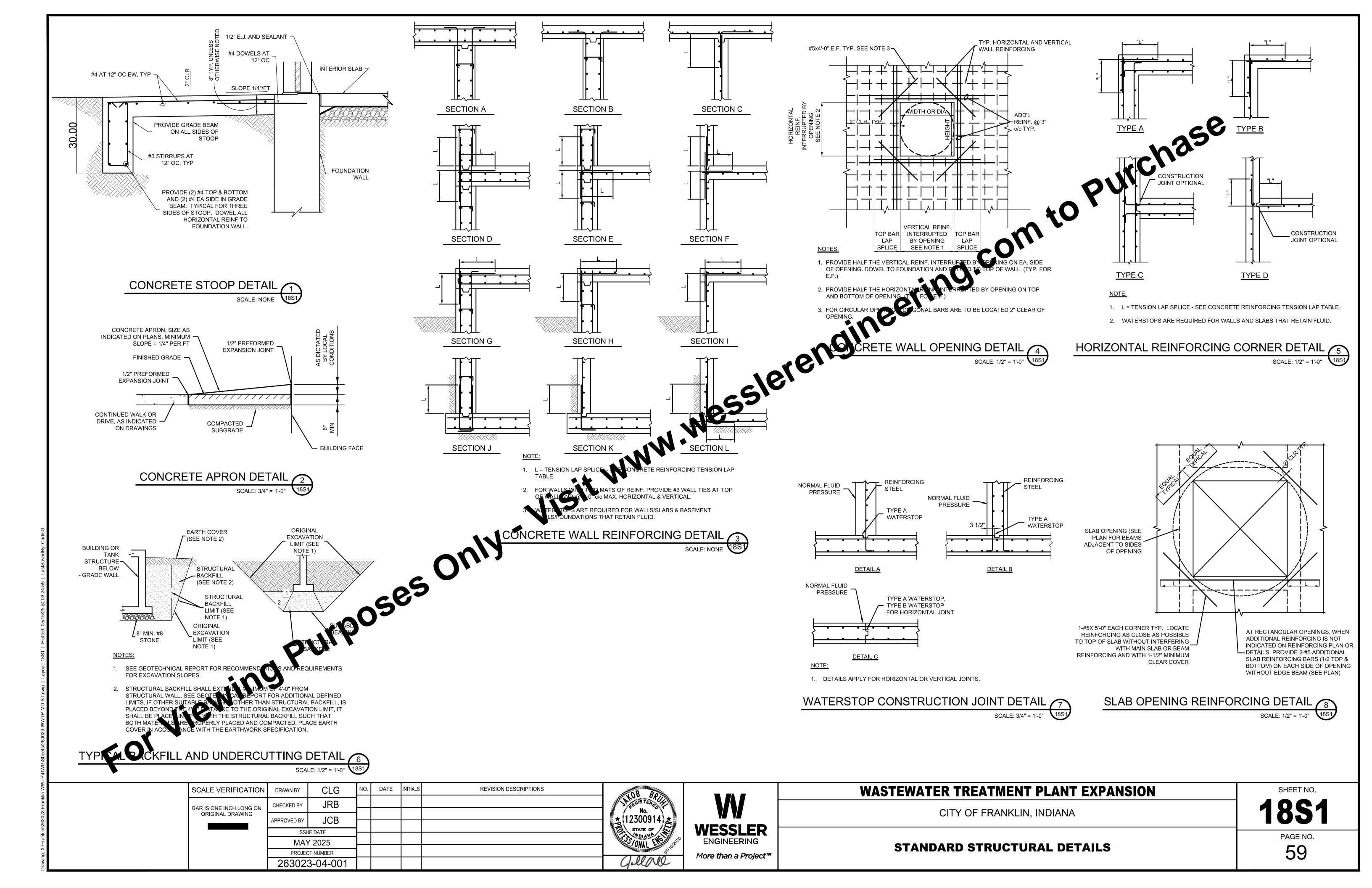


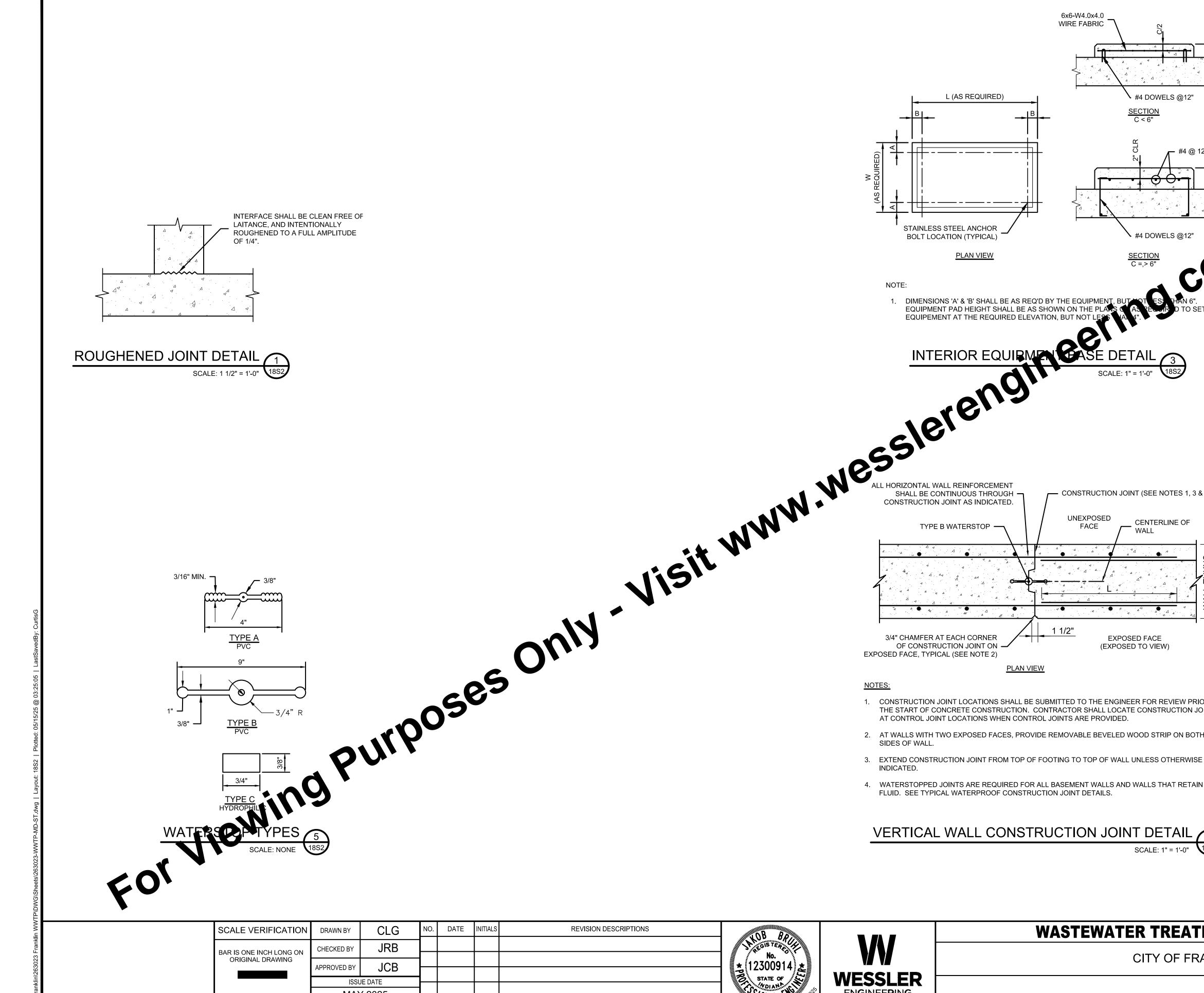
**WASTEWATER TREATMENT PLANT EXPANSION** 

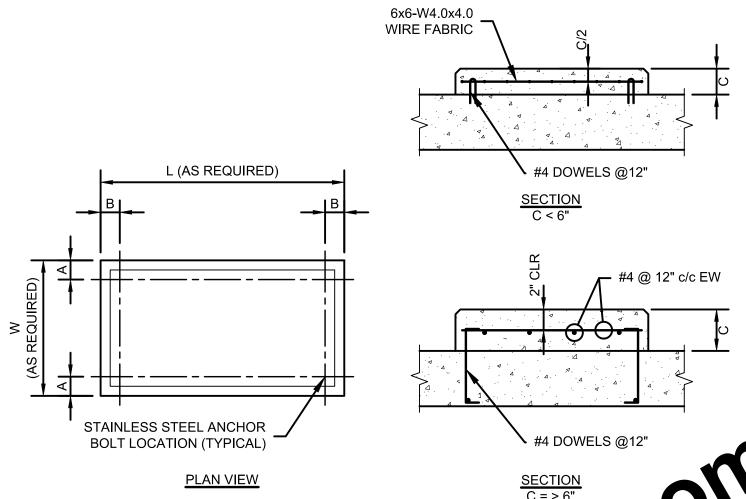
CITY OF FRANKLIN, INDIANA FRANKLIN, INDIANA

> **DOOR AND ROOM FINISH SCHEDULE AND DETAILS**

SHEET NO.







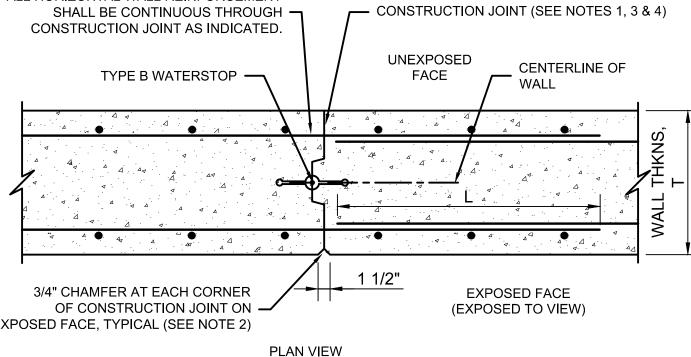
SEE PLAN FOR CONTROL JOINT LOCATIONS. CUT 50% OF REINFORCING - REINF BARS, 2" CLEAR OF BARS AS REQUIRED JOINT, PRIOR TO CONCRETE PLACEMENT SLAB ON GRADE -PROVIDE MINIMUM OF 6" LAYER OF FREE DRAINING COMPACTED GRANULAR FILL MATERIAL, IN ACCORDANCE WITH THE EARTHWORK SPECIFICATION.

T CONTROL JOINT LOCATIONS BEFORE SLAB CONSTRUCTION AND DISCONTINUE NATE SLAB REINFORCING BARS AT JOINTS.

COORDINATE SAWCUT DEPTH WITH LOCATION OF TOP REINFORCING STEEL TO ENSURE THAT CONTINUOUS BARS ARE NOT SAWCUT.

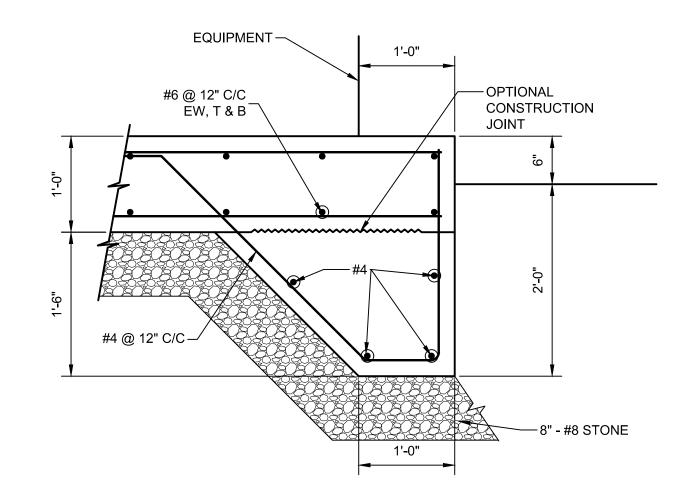
- SAWCUT JOINT AS SOON AS POSSIBLE AFTER THE CONCRETE HARDENS. THE CONCRETE IS HARD ENOUGH WHEN THE BLADE DOES NOT DISLODGE AGGREGATE, AND WHEN THE EDGES OF THE CUT TO NOT RAVEL. COMPLETE SAWCUTTING BEFORE SHRINKAGE STRESSES BECOME SUFFICIENT TO PRODUCE CRACKING.
- 4. PREPARE AND SEAL JOINT AS SPECIFIED.
- 5. CONSTRUCTION JOINTS SHALL BE LOCATED AT DEFINED CONTROL JOINT LOCATIONS. CONTINUOUS BARS SHALL BE DETAILED AS REQUIRED TO RUN THROUGH THE CONSTRUCTION

REINFORCED SLAB ON GRADE DETAIL



- 1. CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE START OF CONCRETE CONSTRUCTION. CONTRACTOR SHALL LOCATE CONSTRUCTION JOINTS
- 2. AT WALLS WITH TWO EXPOSED FACES, PROVIDE REMOVABLE BEVELED WOOD STRIP ON BOTH
- 3. EXTEND CONSTRUCTION JOINT FROM TOP OF FOOTING TO TOP OF WALL UNLESS OTHERWISE
- 4. WATERSTOPPED JOINTS ARE REQUIRED FOR ALL BASEMENT WALLS AND WALLS THAT RETAIN





EXTERIOR EQUIPMENT FOUNDATION DETAIL 8

CALE VERIFICATION	DRAWN BY	CLG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	
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**ENGINEERING** More than a Project™ **WASTEWATER TREATMENT PLANT EXPANSION** 

CITY OF FRANKLIN, INDIANA

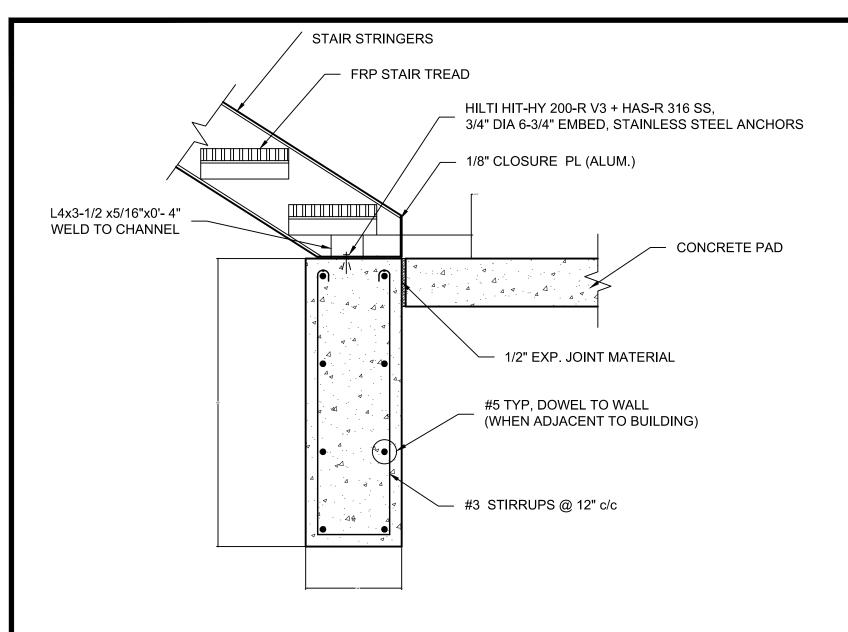
**1852** 

**STANDARD STRUCTURAL DETAILS** 

60

PAGE NO.

SHEET NO.



EXTERIOR STAIR SUPPORT FOUNDATION DETAIL /1

CONNECTION TO WE SET LANDING SUPPRIFICAME DETAINS.

SOLE YORK

- 25-1 Authorities stars

strength as 4 land, as the stars of the stars PROVIDE 1/2"x2 1/2"x6" LONG ALUMINUM HANDRAIL POST BASE WITH (2) 1/2" S.S. ANCHORS, NUTS & WASHERS PER HANDRAIL MANUFACTURER FOR HANDRAIL CONN TO STRINGER, TYP. AT CONCRETE SUPPORT, PROVIDE 1/2" S.S. MECH OR ADHESIVE **ANCHORS** 

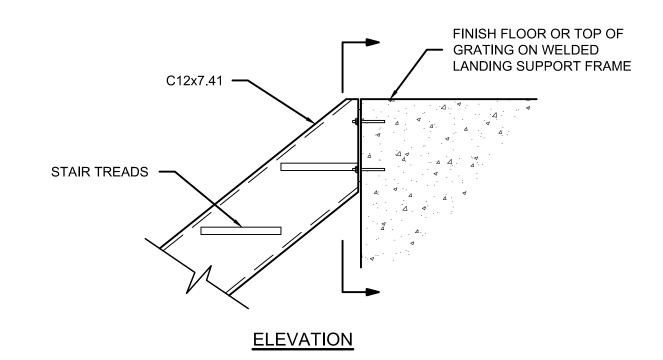
**GENERAL NOTE:** 

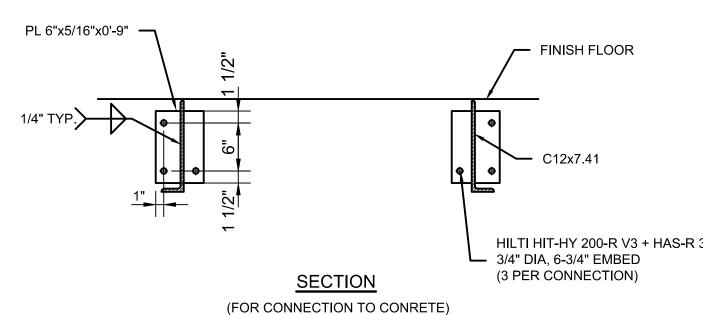
DETAIL SHOWS TYPICAL MINIMUM STAIR 8 REQUIREMENTS. FINAL DESIGN OF IN ACCORDANCE WITH REQUIREMENTS PERFORMANCE-SPECIFIED ITEMS ST S, AND IN SPECIFICATION.

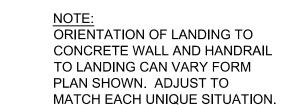
TEND 12" BEYOND TOP RISER (PARALLEL w/ WALKING SURFACE) OND BOTTOM RISER (AS INDICATED). COORDINATE HANDRAIL TIONS AT TOP & BOTTOM OF STAIR.

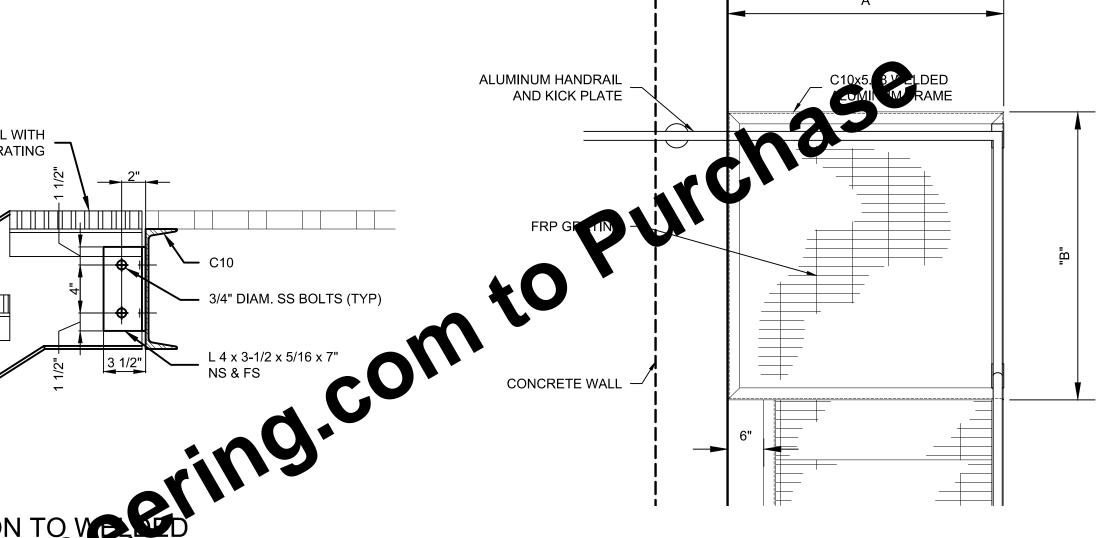
> STAIR AND RAILING DETAIL SCALE: NONE

> > 263023-04-001









NEW STAIR LANDING TYPICAL PLAN 5 SCALE: NONE

ALUMINUM HANDRAIL AND KICK PLATE FRP GRATING -C10x5.28 WELDED 3 SETS OF HILTI HIT-HY ALUMINUM FRAME 200-R V3 + HAS-R 316 SS, 3/4" DIA, STAINLESS STEEL ANCHORS, 6 3/4" EMBED, NOM. 3" DIA TOP & BOTTOM AT 24" OC - SCH 40 ALUM PIPE COLUMN 4" X 4" X 1/2" ALUM \_ TOP PLATE (TYP OF 2) **CONCRETE WALL** 8" X 8" X 1/2" ALUMINUM BOTTOM PLATE, ATTACHED TO CONCRETE WITH (4) HILTI HIT-HY 200-R V3 + -HAS-R 316 SS, 3/4" DIA, STAINLESS STEEL ANCHORS, EMBED 6-3/4" #3 TIES @ 6" c/c IN TOP HALF OF PEDESTAL (4) #4 BARS UNIFORMLY SPACED AROUND PERIMETER

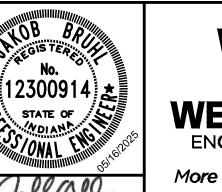
> NEW STAIR LANDING DETAILS 6 SCALE: NONE

1'-6" DIA

ALUMINUM STAIR SCHEDULE												
NO.	AREA	LOCATION	ELEV	ATION BASE (FT)	LANI "A"	DING "B"	INSIDE WIDTH (FT)	RISERS	TREADS			
1	5	HEADWORKS EXPANSION	736.92	722.00	4'-0"	4'-0"	4'-0"	SEE 5S2	SEE 5S2			
2	6	EXISTING OXIDATION DITCH, NEW EFFLUENT BOX	726.68	722.50			4'-0"	8 @ 6 1/4" +/- = 4'-2"	7 @ 11" = 6'-5"			
3	6	EXISTING OXIDATION DITCH, SOUTH SIDE WALKWAY	726.68	722.00	5'-0"	6'-0"	4'-0"	9 @ 6 3/16" +/- = 4'-8"	7 @ 11" = 6'-5"			
4	6	EXISTING OXIDATION DITCH, NORTH SIDE WALKWAY	726.68	722.50			4'-0"	8 @ 6 4/16" +/- = 4'-2"	6 @ 11" = 5'-6"			
5	7	NEW OXIDATION DITCH, WEST WALKWAY	727.68	722.50	5'-0"	6'-0"	4'-0"	9 @ 6 7/8" +/- = 5'-2"	8 @ 11" = 7'-4"			
6	7	NEW OXIDATION DITCH, EFFLUENT BOX	727.68	722.50			4'-0"	9 @ 6 7/8" +/- = 5'-2"	8 @ 11" = 7'-4"			
7	7	NEW OXIDATION DITCH, BUTTERFLY VALVE ACCESS	727.68	722.50	4'-0"	4'-0"	3'-0"	9 @ 6 7/8" +/- = 5'-2"	8 @ 11" = 7'-4"			
8	7	NEW OXIDATION DITCH, FLOWMETER ACCESS	727.68	722.50	4'-0"	4'-0"	3'-0"	9 @ 6 7/8" +/- = 5'-2"	8 @ 11" = 7'-4"			
9	7	NEW OXIDATION DITCH, EAST WALKWAY	727.68	722.50	5'-0"	6'-0"	4'-0"	9 @ 6 7/8" +/- = 5'-2"	8 @ 11" = 7'-4"			
10	7	NEW OXIDATION DITCH NO. 3 AND 4SPLITTER STR.	730.51	723.50			4'-0"	13 @ 6 7/16" +/- = 7'-0"	12 @ 11" = 11'-0"			

SURFACE OF TOP TREAD LEVEL WITH SURFACE OF LANDING GRATING

CLG DATE INITIALS REVISION DESCRIPTIONS SCALE VERIFICATION DRAWN BY JRB **CHECKED BY** BAR IS ONE INCH LONG ON ORIGINAL DRAWING APPROVED BY ISSUE DATE MAY 2025 PROJECT NUMBER

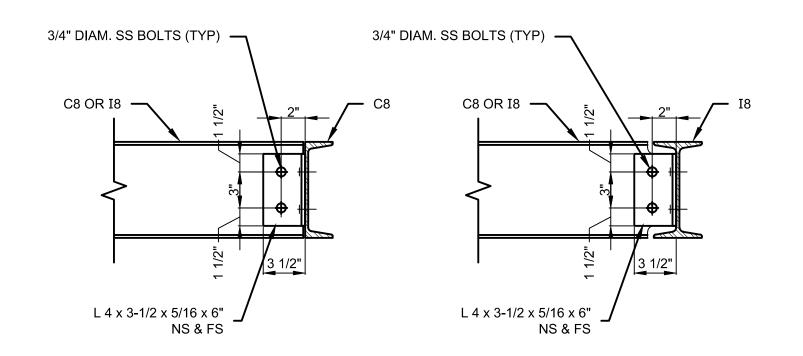


**WESSLER ENGINEERING** More than a Project™ **WASTEWATER TREATMENT PLANT EXPANSION** 

CITY OF FRANKLIN, INDIANA

**STANDARD STRUCTURAL DETAILS** 

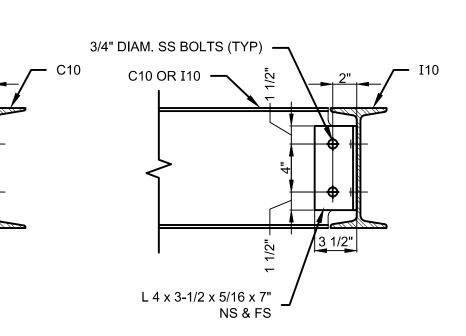
SHEET NO. **18S3** 



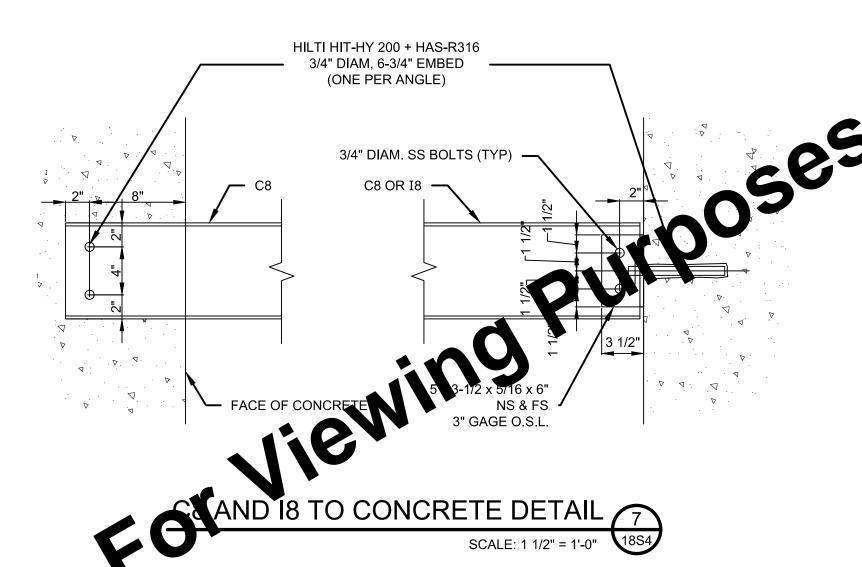


3/4" DIAM. SS BOLTS (TYP)

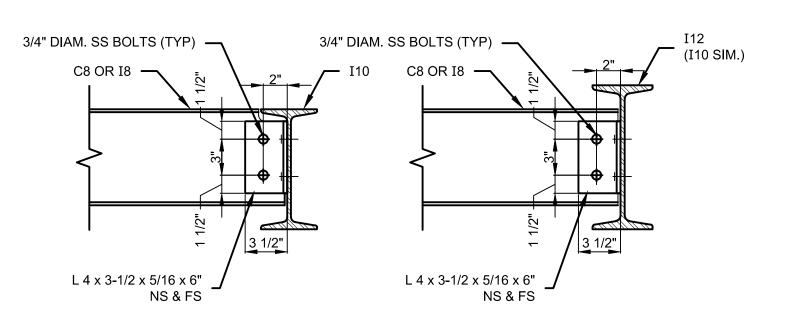
L 4 x 3-1/2 x 5/16 x 7"

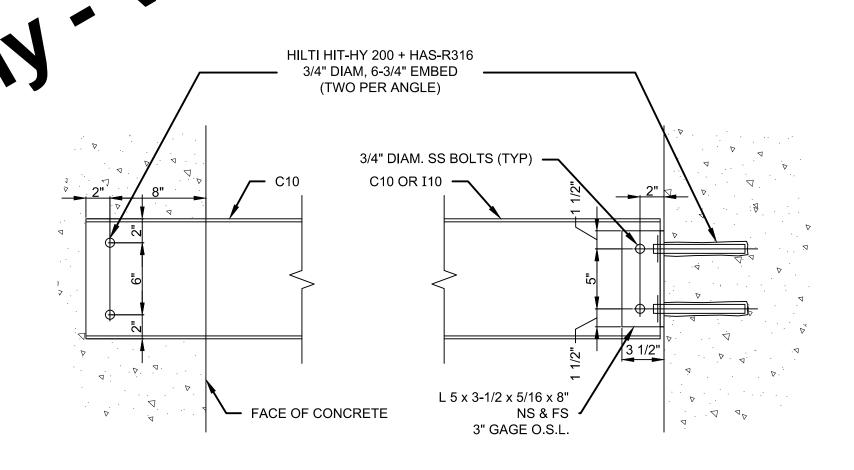




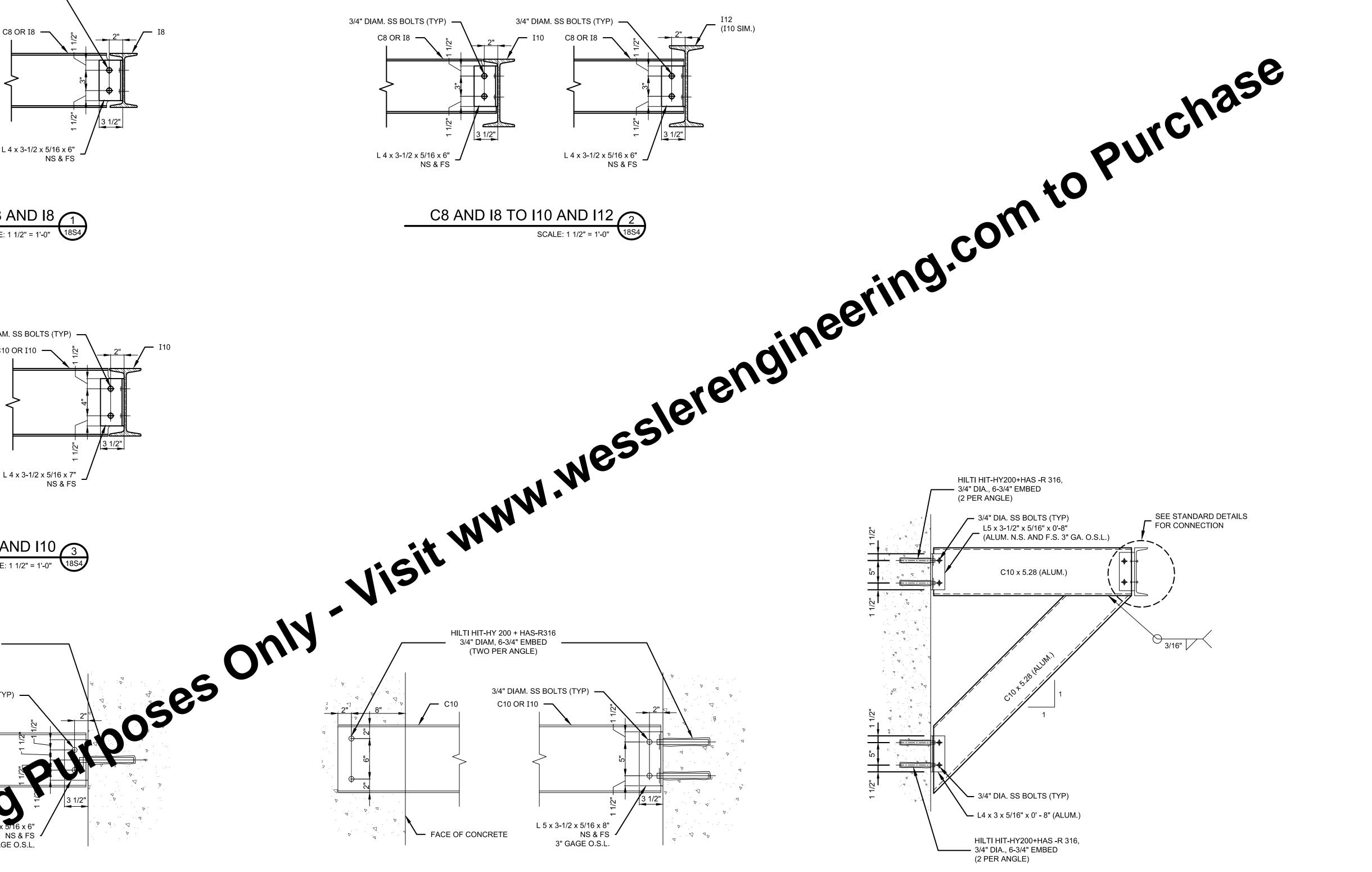












KNEE BRACE DETAIL 6

SCALE VERIFICATION	DRAWN BY	CLG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	
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	More than a Project <sup>1</sup>

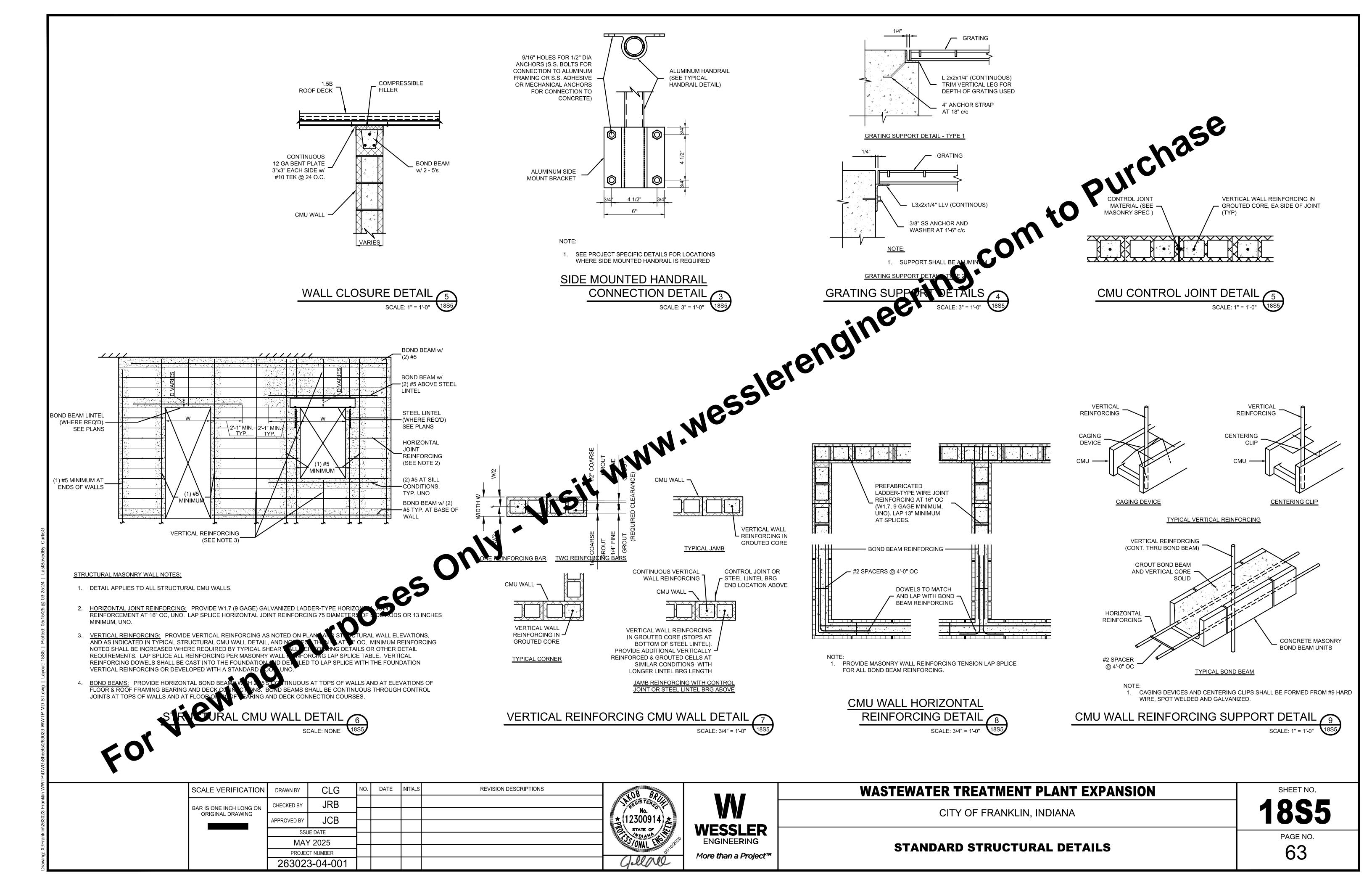
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WESSLER ENGINEERING	
More than a Project™	

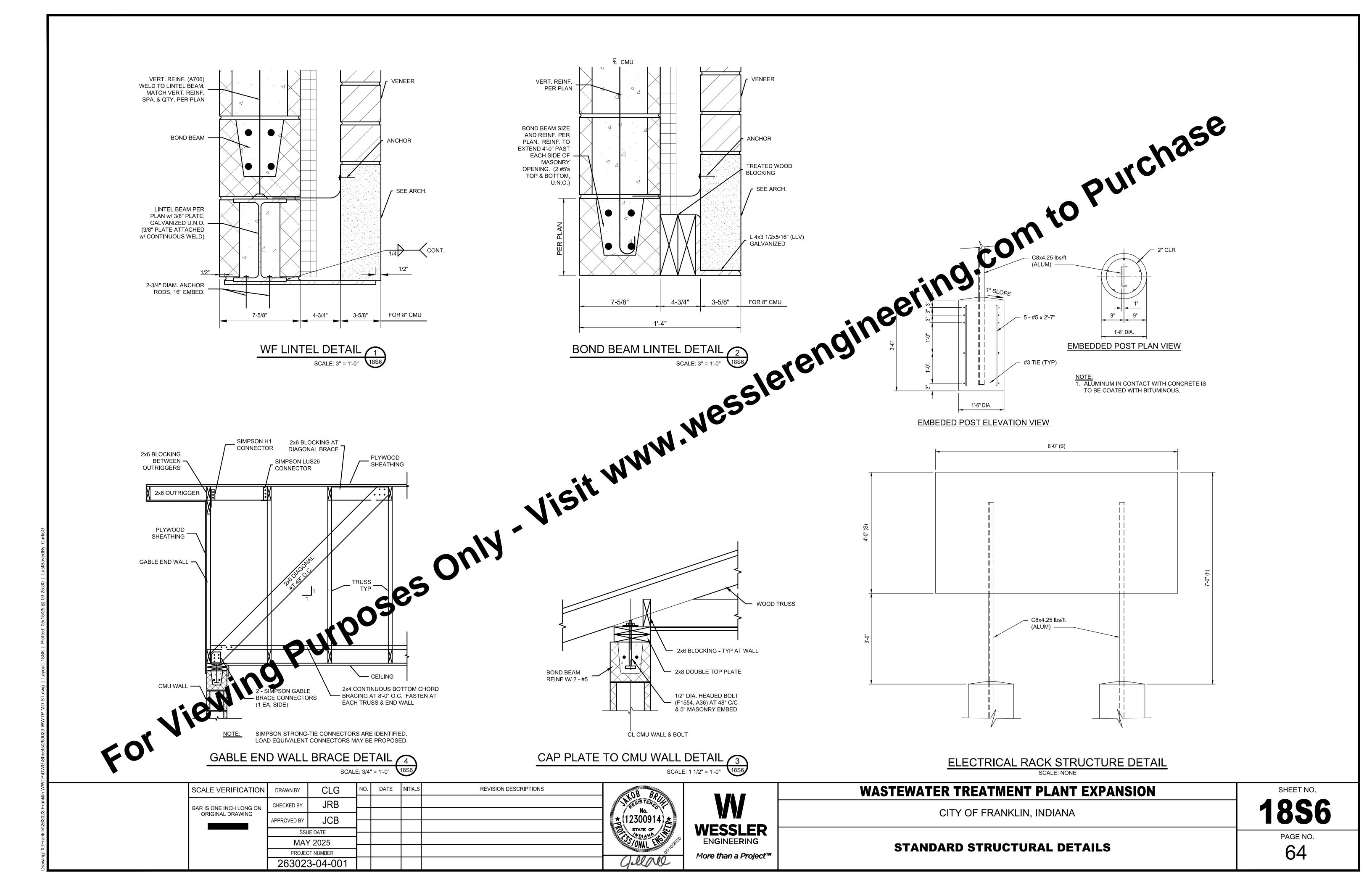
WASTEWATER TREATMENT PLANT EXPANSION	
CITY OF FRANKLIN, INDIANA	

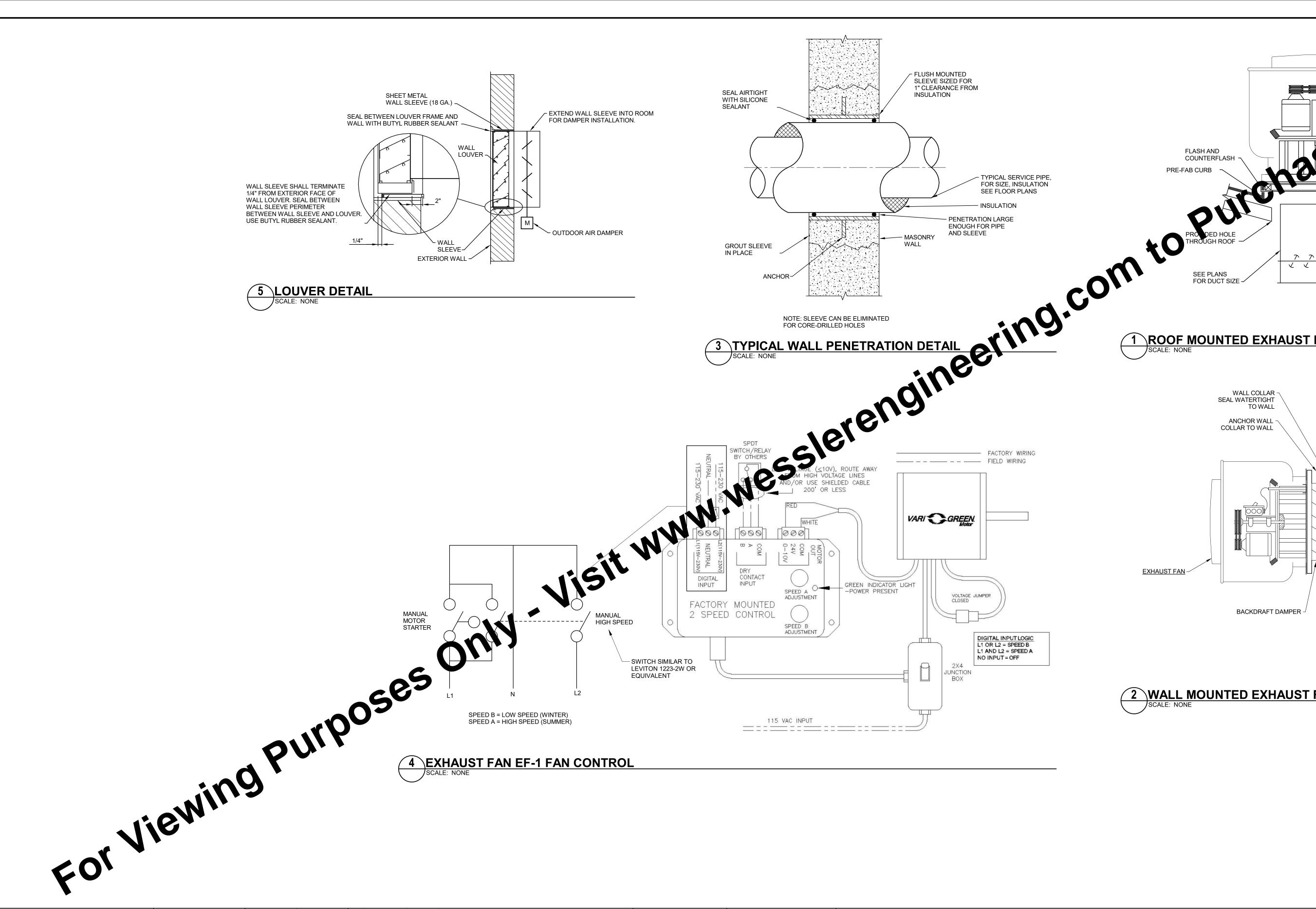
**STANDARD STRUCTURAL DETAILS** 

SHEET NO. 1854 PAGE NO.

62

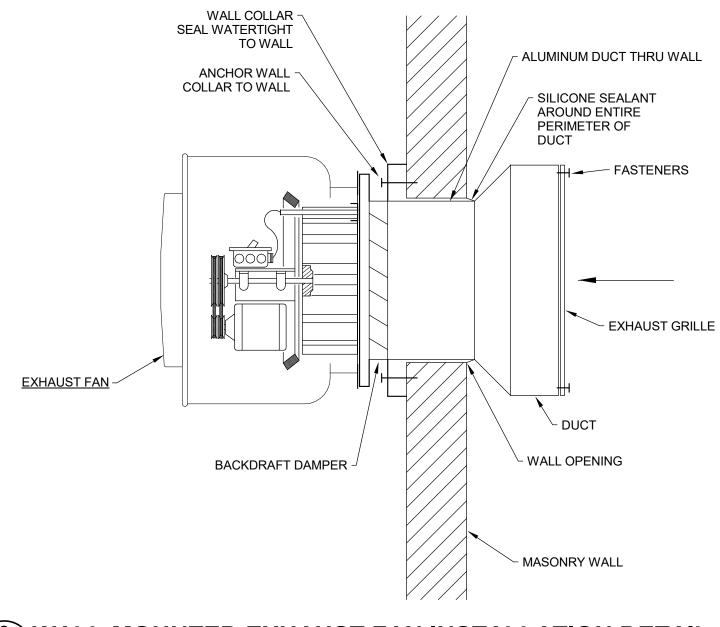






- DISCONNECT SWITCH BY MANUFACTURER CORD - EXTERNAL ALUMINUM **WIRE POST** BY UNIT **MANUFACTURER** HINGED CURB JUNCTION BOX AND CONDUIT - SECURE ~ VERIFY ROOF CONSTRUCTION - BACKDRAFT JUNCTION BOX AND CONDUIT

1 ROOF MOUNTED EXHAUST FAN INSTALLATION DETAIL

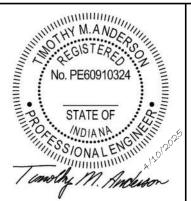


2 WALL MOUNTED EXHAUST FAN INSTALLATION DETAIL

4 EXHAUST FAN EF-1 FAN CONTROL

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**REVISION DESCRIPTION** DATE INITIALS SCALE VERIFICATION DRAWN BY RLW CHECKED BY TMA APPROVED BY BAR IS ONE INCH LONG ON ORIGINAL DRAWING ISSUE DATE MAY 2025 PROJECT NUMBER 263023-04-001



**WESSLER ENGINEERING** More than a Project™

# **WASTEWATER TREATMENT PLANT EXPANSION**

CITY OF FRANKLIN, INDIANA

**MECHANICAL DETAILS** 

SHEET NO. 18M1

### SPLIT SYSTEM AIR CONDITIONER SCHEDULE

1. PROVIDE THREE SETS OF SPARE FILTERS WITH EACH UNIT.

2. INSTALLING CONTRACTOR TO PROVIDE ALL INTERCONNECTING CONTROL WIRING BETWEEN INDOOR AND OUTDOOR UNIT AS WELL AS CONTROLLER. 3. INDOOR UNIT POWERED FROM OUTDOOR UNIT.

5. INDOOR ONLY OWERED TRO	JW COTBOOK CIVIT.																								
											COOLING			AIR FLOW					ELECTRICA	L			PHYS	SICAL	NOTES
LOCATION	BASIS OF DESIGN MANUFACTURER	INDOOR UNIT MODEL	INDOOR UNIT	TYPE	SYSTEM TYPE	PAIRED CONDENSING UNIT MODEL NO.	OUTDOOR UNIT TAG	REFRIGERANT	NOMINAL	NET CAPA	CITY (BTU)		MOISTURE				INDOOR	INDOOR	OUTDOOR	OUTDOOR	OUTDOOR		WEIGHT	WEIGHT	
									CAPACITY (BTUH)	MINIMUM	MAXIMUM	SEER	REMOVAL (PINTS/HR)	LOW HIGH	VOLT	PHASE		UNIT MCA	UNIT FAN FLA	UNIT MCA	UNIT FAN MOCP	DIDC SW BY	INDOOR UNIT LBS	OUTDOOR UNIT LBS	OPTIONS / ACCESSORIES
EXISTING HEADWORKS BUILDING ELECTRICAL CONTROL ROOM	MITSUBISHI	NTYWST12A112A	EVAP-1	WALL MOUNTED	COOLING ONLY	NTYSST12A112A	ACCU-1	R-410a	12,000	1,500	13,600	23.1	2.5	145 400	208/230	1	0.76	1.0	0.5	7.0	15.0	EC	35	81	WIRED CONTROLLER MODEL PAR-32MAA
NEW HEADWORKS BUILDING ELECTRICAL ROOM 5	MITSUBISHI	NTYWST12A112A	EVAP-2	WALL MOUNTED	COOLING ONLY	NTYSST12A112A	ACCU-2	R-410a	12,000	1,500	13,600	23.1	2.5	145 400	208/230	1	0.76	1.0	0.5	7.0	15.0	<b>€</b> C	22	81	WIRED CONTROLLER MODEL PAR-32MAA
SECONDARY CONTROL ELECTRICAL ROOM	MITSUBISHI	TPKA0A0301KA70A	EVAP-3	WALL MOUNTED	COOLING ONLY	TRUYA0301HA70NA	ACCU-3	R-410a	30,000	9,000	30,000	19.8	8.1	635 775	208/230	1	0.35	1.0	0.4	19.0	4.0	EC	46	151	WIRED CONTROLLER MODEL PAR-32MAA
BLOWER ELECTRICAL ROOM	MITSUBISHI	TPKA0A0301KA70A	EVAP-4	WALL MOUNTED	COOLING ONLY	TRUYA0301HA70NA	ACCU-4	R-410a	30,000	9,000	30,000	23.1	8.1	635 775	208/230	1	0.35	1.0	0.4	19.0	26.0	EC	46	81	WIRED CONTROLLER MODEL PAR-32MAA
SOLIDS PROCESS BUILDING CONTROL ROOM	MITSUBISHI	NTYWST12A112A	EVAP-5	WALL MOUNTED	COOLING ONLY	NTYSST12A112A	ACCU-5	R-410a	12,000	1,500	13,600	23.1	2.5	145 400	208/230	1	0.76	1.0	0	7.0	15.0	EC	22	81	WIRED CONTROLLER MODEL PAR-32MAA

### **SEQUENCE OF OPERATION:**

1. WINTER OPERATION: WITH THE MANUAL MOTOR STARTER IN THE ON POSITION EXHAUST FAN #1 RUNS CONTINUOUSLY ON LOW SPEED (800 CFM). OUTSIDE AIR DAMPER IS PARTIALLY OPEN TO MAINTAIN A NEGATIVE PRESSURE WITHIN THE ROOM AND TO VENTILATE THE ROOM AT 4 AIR CHANGES PER HOUR. ANYTIME THE MANUAL MOTOR STARTER MOUNTED ON THE WALL IS TURNED OFF EXHAUST FAN

#1 SHALL STOP AND THE DAMPER SHALL FULLY CLOSE. 2. SUMMER OPERATION: WHEN THE SPACE REQUIRES COOLING A SWITCH LOCATED BY THE FAN ON THE INSIDE OF THE BUILDING SHALL BE MANUALLY TURNED ON. WHEN THE SWITCH IS ENGAGED, THE OUTSIDE AIR DAMPER SHALL FULLY OPEN AND THE END SWITCH IN THE DAMPER ACTUATOR SHALL INDEX THE FAN TO START ON HIGH SPEED INDEXED BY THE VARIABLE FREQUENCY DRIVE SETTING. THE FAN SHALL CONTINUE TO RUN AT HIGH SPEED UNTIL THE MANUAL SWITCH IS TURNED TO THE OFF POSITION. THE SYSTEM SHALL RETURN TO OPERATE IN THE "WINTER OPERATION" MODE. ROOM IS DESIGNED FOR 12/AC PER HOUR (2400 CFM) ANYTIME THE ROOM REQUIRES COOLING.

WHEN INDOOR TEMPERATURE EXCEEDS 80 DEGREES (ADJ.) AS SENSED BY THE REVERSE ACTING THERMOSTAT, THE THERMOSTAT SHALL INDEX THE INTAKE DAMPER ACTUATOR TO OPEN THE DAMPER. WHEN THE DAMPER IS FULLY OPEN THE INTEGRAL END SWITCH ON THE ACTUATOR SHALL INDEX THE VENTILATION FAN TO START. THE FAN SHALL RUN CONTINUOUSLY UNTIL THE SPACE TEMPERATURE FALLS BELOW SET POINT. THERE SHALL BE A 5 DEGREE DEADBAND IN THE THERMOSTAT TO AVOID RAPID FAN CYCLING.

2. WHEN THE INDOOR TEMPERATURE FALLS BELOW THE FAN SET POINT THE FAN SHALL STOP AND THE INTAKE DAMPER SHALL FULLY CLOSE.

1. ANYTIME THE ROOM TEMPERATURE FALLS BELOW 65 DEGREES (ADJ.) AN ELECTRIC THERMOSTAT SHALL ENERGIZE THE ELECTRIC UNIT HEATER FAN AND HEATER. THE UNIT SHALL CONTINUE TO RUN CONTINUOUSLY UNTIL THE ROOM TEMPERATURE RISES ABOVE THE ROOM SET POINT. WHEN THE ROOM TEMPERATURE RISES ABOVE THE SETPOINT THE UNIT HEATER AND FAN SHALL

For Viewing Purposes Only Visit . A WALL MOUNTED CONTROLLER OR THERMOSTAT FURNISHED BY THE MANUFACTURER SHALL MODULATE THE INTERNAL CONTROLS WITHIN THE UNIT

### **ELECTRIC UNIT HEATER SCHEDULE**

1. EXPOXY COATED FOR CORROSION RESISTANCE IN CORROSIVE ENVIRONMENT.

2. WALL MOUNTED 120 VOLT THERMOSTAT.

3. INTEGRAL DISCONNECT SWITCH.

4. CEILING MOUNTING BRACKET.

			-01		CAPACITY			M	OTOR		СО	NTROL				
TAG NO.	LOCATION	ARRANGEMENT	Gr.	KW	EAT	CFM	AMPS	NO. OF SPEEDS	NO OF FANS	VOLT/PH	EM POWER	CONTROL TYPE	MFR.	MODEL NO.	WGT.	NOTES
EUH-1	NEW HEADWORKS BUILDING	HOP ON AL	ELECTRIC	7.5	60	270	6.0	1	1	480/3	NO	DDC	QMARK	IUH748	26	SEE NOTES
EUH-2	NEW HEADWORKS BUILDING	H RIZ TAL	ELECTRIC	7.5	60	270	6.0	1	1	480/3	NO	DDC	QMARK	IUH748	26	SEE NOTES
EUH-3	EXISTING HEADWORKS CONTROL ROOM	ONIXO TAL	ELECTRIC	5	60	270	6.0	1	1	480/3	NO	DDC	QMARK	IUH548	25	SEE NOTES
EUH-4	NEW HEADWORKS CONTROL ROOM	HORIZONTAL	ELECTRIC	5	60	270	6.0	1	1	480/3	NO	DDC	QMARK	IUH548	25	SEE NOTES
EUH-5	NEW BLOWER BUILDING	HORIZONTAL	ELECTRIC	7.5	60	270	6.0	1	1	480/3	NO	DDC	QMARK	IUH748	26	SEE NOTES
EUH-6	NEW BLOVE R PLANCE	HORIZONTAL	ELECTRIC	7.5	60	270	6.0	1	1	480/3	NO	DDC	QMARK	IUH748	26	SEE NOTES
EUH-7	NEW FLOWE BULLLING	HORIZONTAL	ELECTRIC	7.5	60	270	6.0	1	1	480/3	NO	DDC	QMARK	IUH748	26	SEE NOTES

BACKDRAFT DAMPER AND BIRDSCREEN ALL COMPONENTS COATED SEE NOTE 6. PROVIDE 18" HIGH FULLY INSULATED ROOF CURB WITH CANT.

ROVIDE WALL MOUNTING BRACKET.

PROVIDE HINGED CURB CAP FOR SERVICING WITH SAFETY CHAIN.

5. PROVIDE HI-PRO POLYESTER COATING ENTIRE FAN, HOUSING, WHEEL AND ACCESSORIES

6. PROVIDE UL/CUL 705 LISTED AND RATED FOR POWER VENTILATORS

7. PROVIDE WITH ECM MOTOR AND TWO SPEED CONTROLLER.

			FAN						MO	TOR		DISCO	NNECT			BASIS OF	DESIGN		
TAG NO.	AREA SERVED	FAN CONFIGURATION	MIN CFM	MAX CFM	STATIC PRESSURE	SPEED (RPM)	DRIVE	HP	VOLTS	PHASE	EM POWER	PROVIDED BY	LOCATION	CONTROL	WEIGHT LBS.	MFG.	MODEL#	NOTES	
EF-1	NEW CLASSIFIER AREA	WALL MOINTED	800	2400	0.5	913	DIRECT	1	115	1	NO	MFR	ON UNIT	DDC	136	GREENHECK	CUE-180-VG	1,3,5,6,7	
EF-2	NEW BLOWER ROOM	ROOF MOUNTED	5000	5000	0.5	702	DIRECT	1	460	3	NO	MFR	ON UNIT	DDC	165	GREENHECK	CUBE-240	1,2,4,5,6	

### LOUVER AND DAMPER SCHEDULE

PROVIDE ALUMINUM BIRD SCREEN CORROSION RESISTANT.

2. COLOR BY ARCHITECT.

3. PROVIDE 120/24 VOLT TRANSFORMER FOR DAMPER OPERATION. 1 CENTER LOUVER/DAMPER OVER ENTRY DOOR

5. DAMPER AND LOUVER SHALL BE ALL ALUMINUM CONSTRUCTION FOR CORROSION RESISTANCE

6. PROVIDE LOUVER WITH EXTENDED SILL

4. CENTER	R LOUVER/DAIMPER OVER E	ENTRY DOOR															
		LOUVER				DAMPER											
TAG NO.	AREA SERVED	LOUVER MANUF AND MODEL NO.	SIZE	AIR QUANTITY	MAXIMUM FACE VELOCITY	TAG NO.	DAMPER MANUF. AND MODEL NO.	ACTUATOR MANUF AND MODEL NO.	ACTUATOR VOLTAGE	DAMPER SIZE	DAMPER FAIL	NOTES					
L-1	NEW CLASSIFIER AREA	RUSKIN ELF375DX	48X30X6	2400	500	OAD-1	TAMCO SERIES 9000	BELIMO MODEL AFBUPS SPRING RETURN WITH END SWITCH	24 VOLT	48X30	CLOSED	1,2,3,4,5,6					
L-2	NEW BLOWER ROOM	RUSKIN ELF375DX	36X82X6	5000	500	OAD-2	TAMCO SERIES 9000	BELIMO MODEL AFBUPS SPRING RETURN WITH END SWITCH	24 VOLT	36X82	CLOSED	1,2,3,4,5,6					



**REVISION DESCRIPTION** DATE INITIALS SCALE VERIFICATION DRAWN BY RLW CHECKED BY TMA APPROVED BY BAR IS ONE INCH LONG ON ORIGINAL DRAWING ISSUE DATE MAY 2025 PROJECT NUMBER 263023-04-001



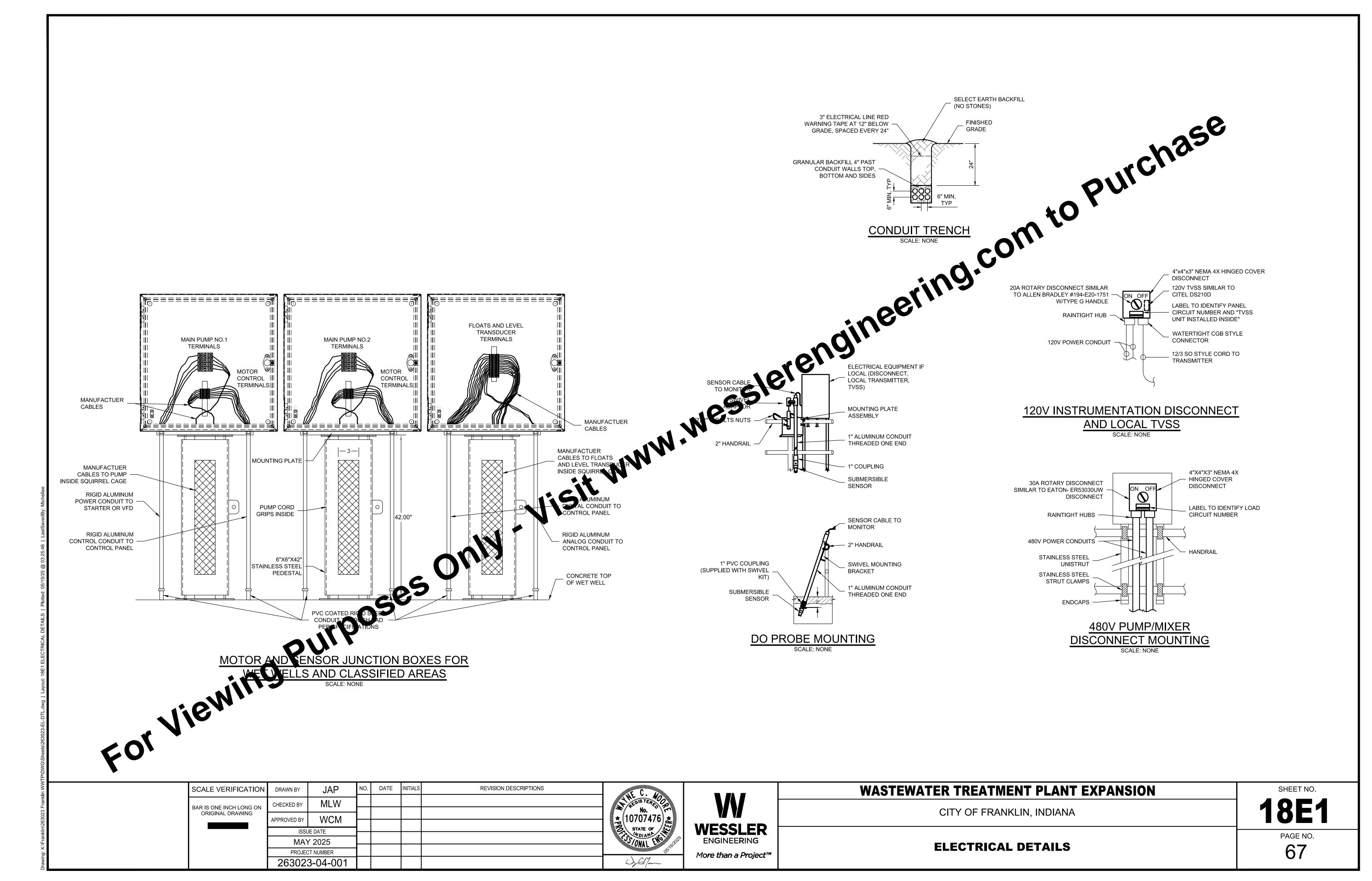
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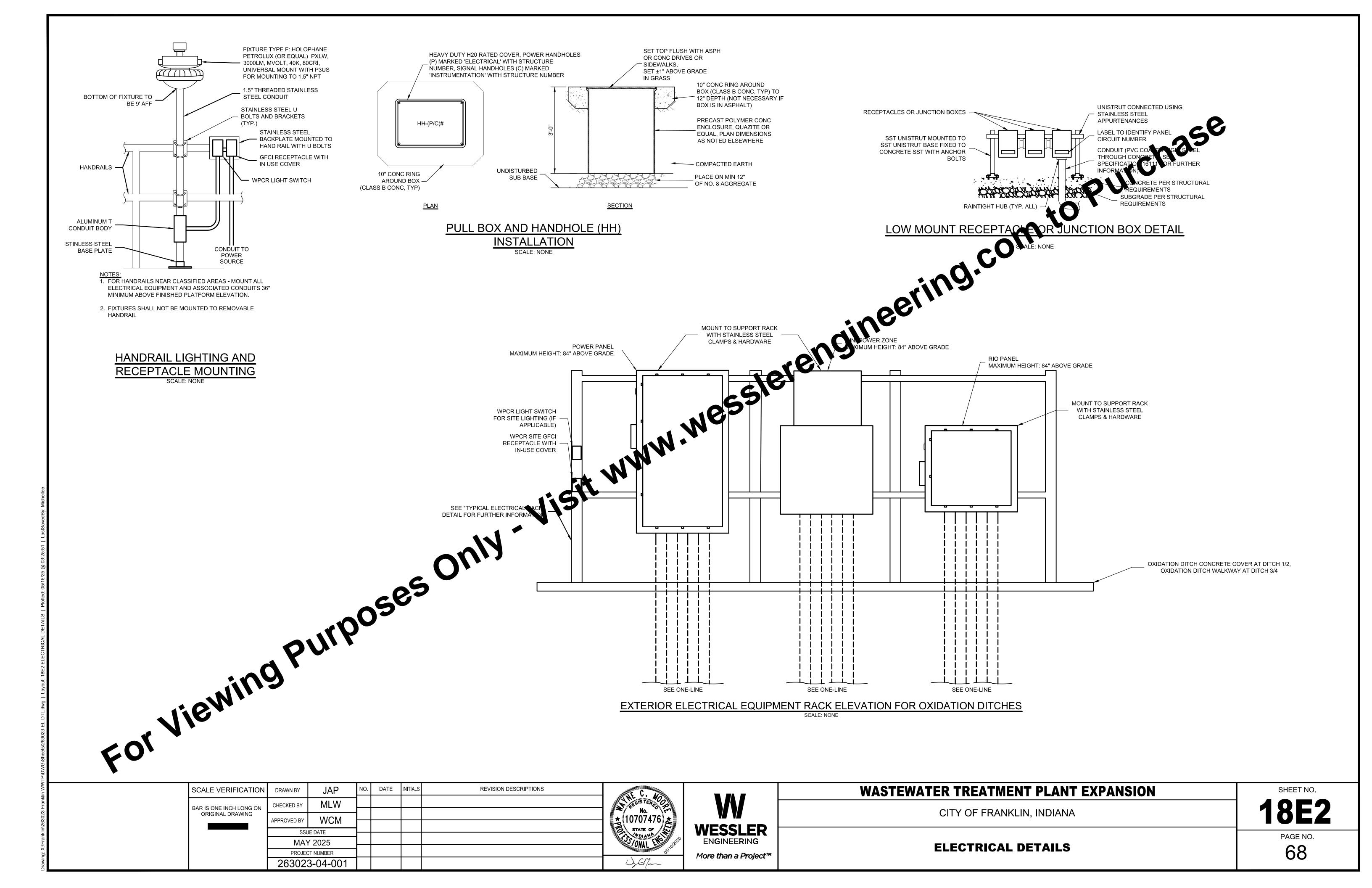
## **WASTEWATER TREATMENT PLANT EXPANSION**

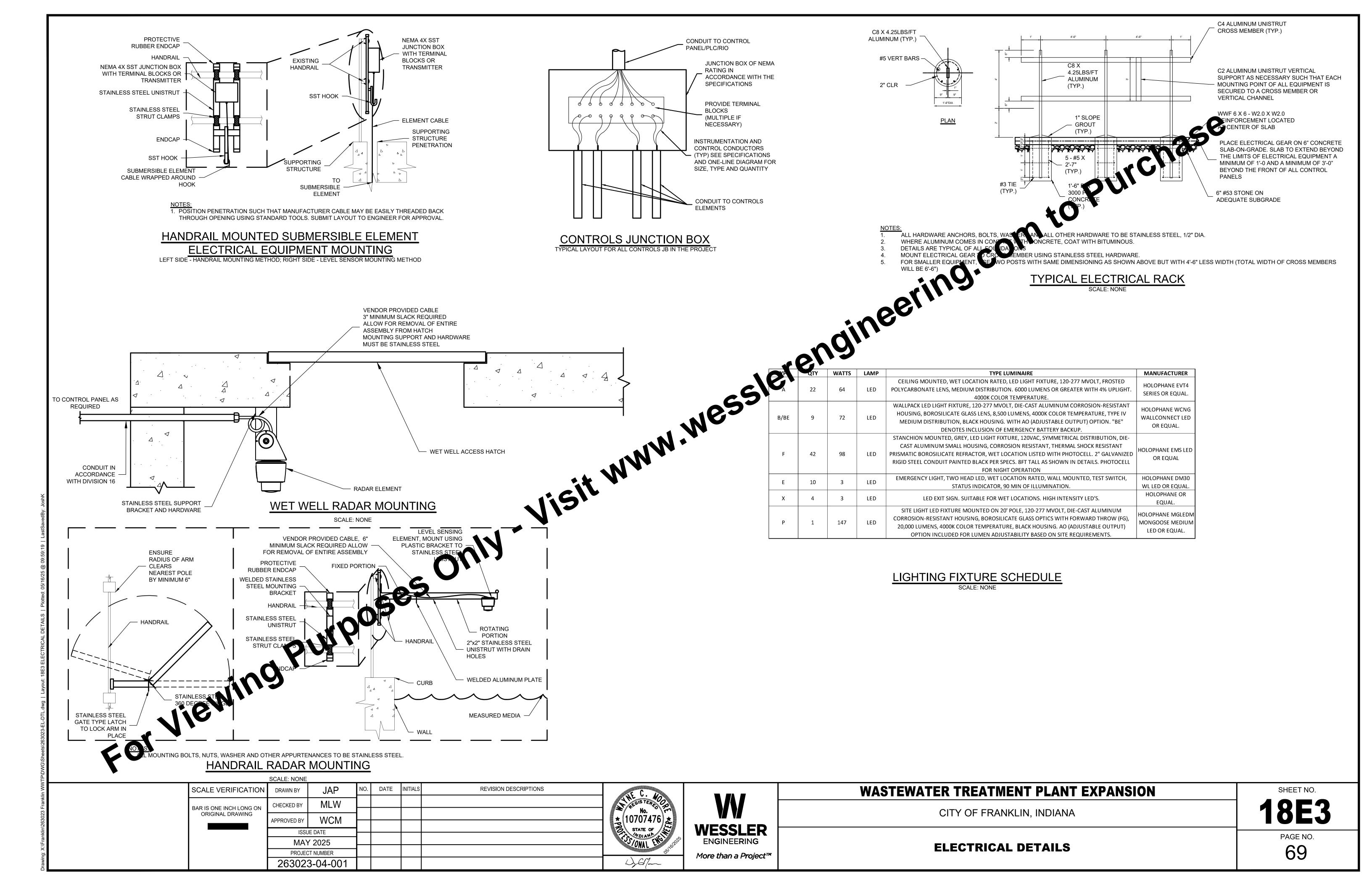
CITY OF FRANKLIN, INDIANA

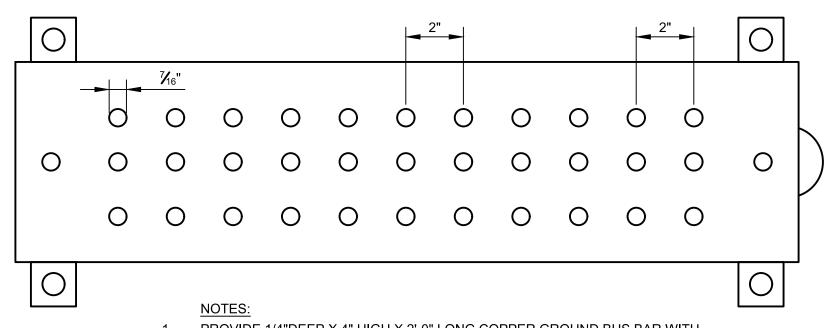
**MECHANICAL SCHEDULES** 

18M2





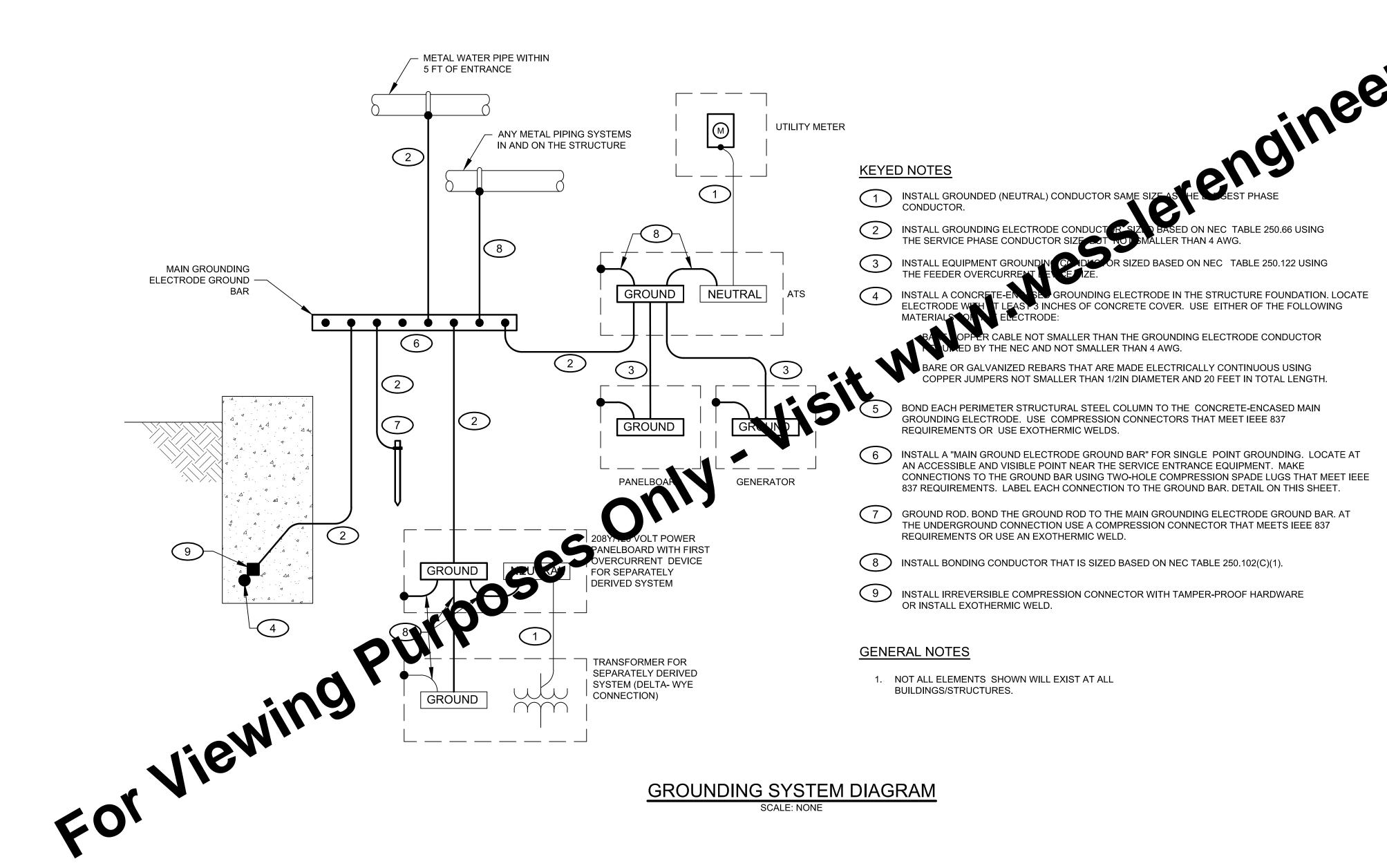


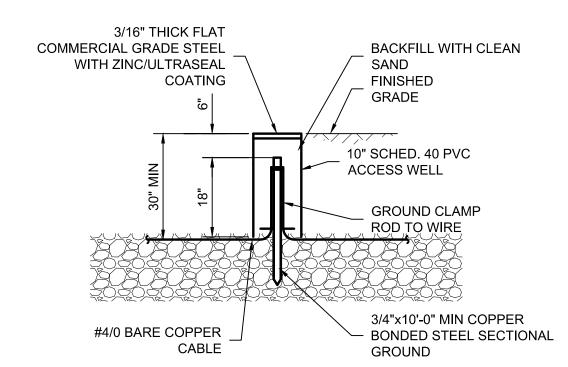


PROVIDE 1/4"DEEP X 4" HIGH X 2'-0" LONG COPPER GROUND BUS BAR WITH INSULATED WALL BRACKET ASSEMBLY. ERICO EGB-A-14-4-24-CC OR APPROVED EQUAL AS SPECIFIED. PRE DRILLED NEMA BOLT CONFIGURATION AS INDICATED. PROVIDE BRASS METAL NAME TAGS ON EACH GROUNDING CABLE INDICATING IDENTIFYING TAG OF EQUIPMENT BEING GROUNDED. TERMINATE GROUNDING CABLE WITH NEMA TWO-HOLE BOLTED LUG.

REFER TO EQUIPMENT PLANS FOR GROUNDING CABLE SIZES, QUANTITIES AND EQUIPMENT DESCRIPTIONS.

# **GROUND BUS BAR DETAIL**



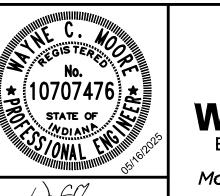


REFER TO JOB SPECIFICATION FOR MINIMUM SYSTEM RESISTANCE TO GROUND. IF THE RESISTANCE CANNOT BE MET WITH SINGLE 10'-0" RODS. ADD ADDITIONAL SECTIONS TO RODS OR ADD NEW RODS AS REQUIRED, SPACED 6'-0" TO 10'-0" FROM EXISTING RODS.

> **ELECTRICAL INSTALLATION** AND GROUND ROD ASSEMBLY

# **GROUNDING SYSTEM DIAGRAM**

SCALE VERIFICATION	DRAWN BY	JAP	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	, min	
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	PROJECT NUMBER							
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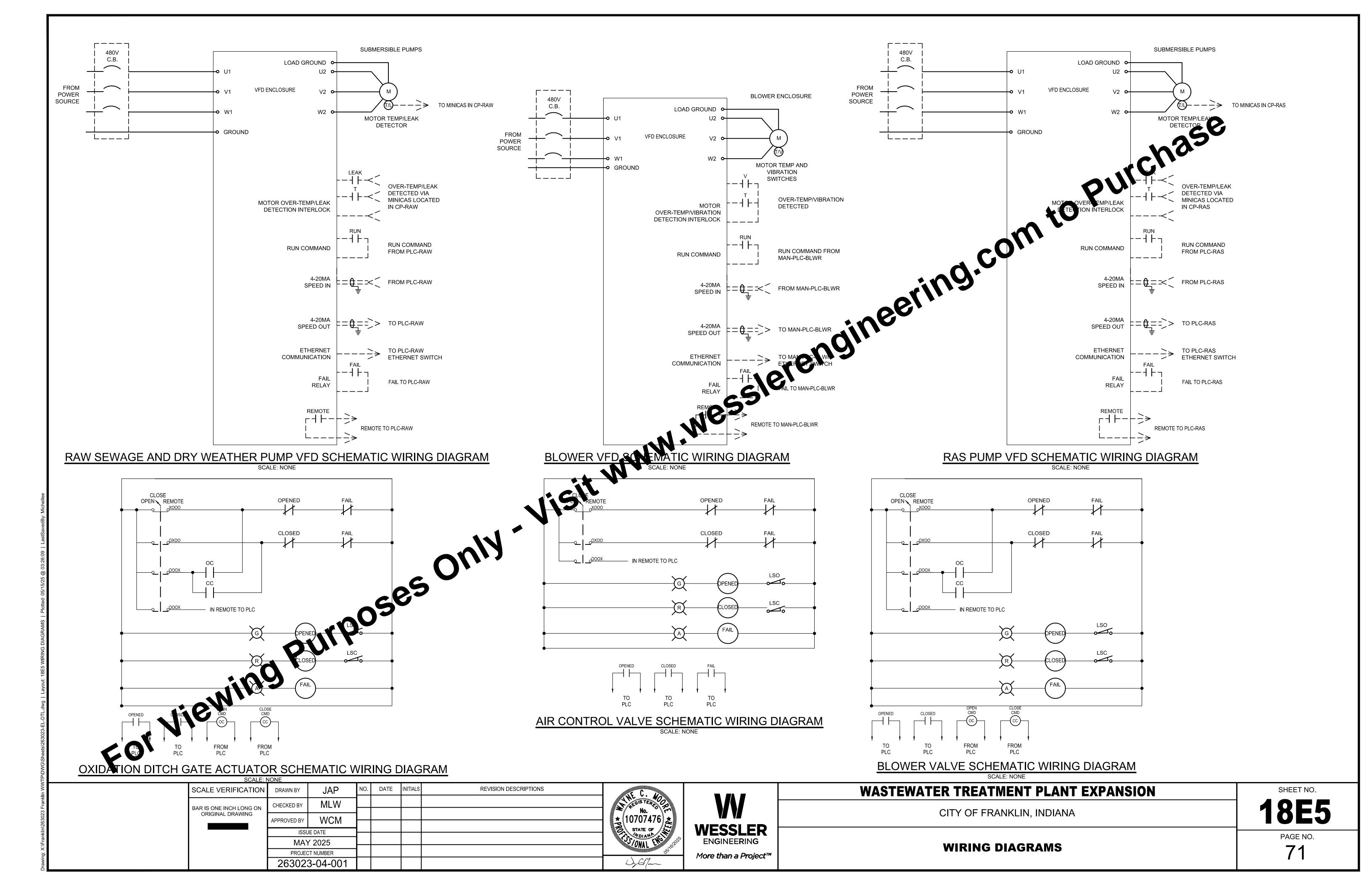
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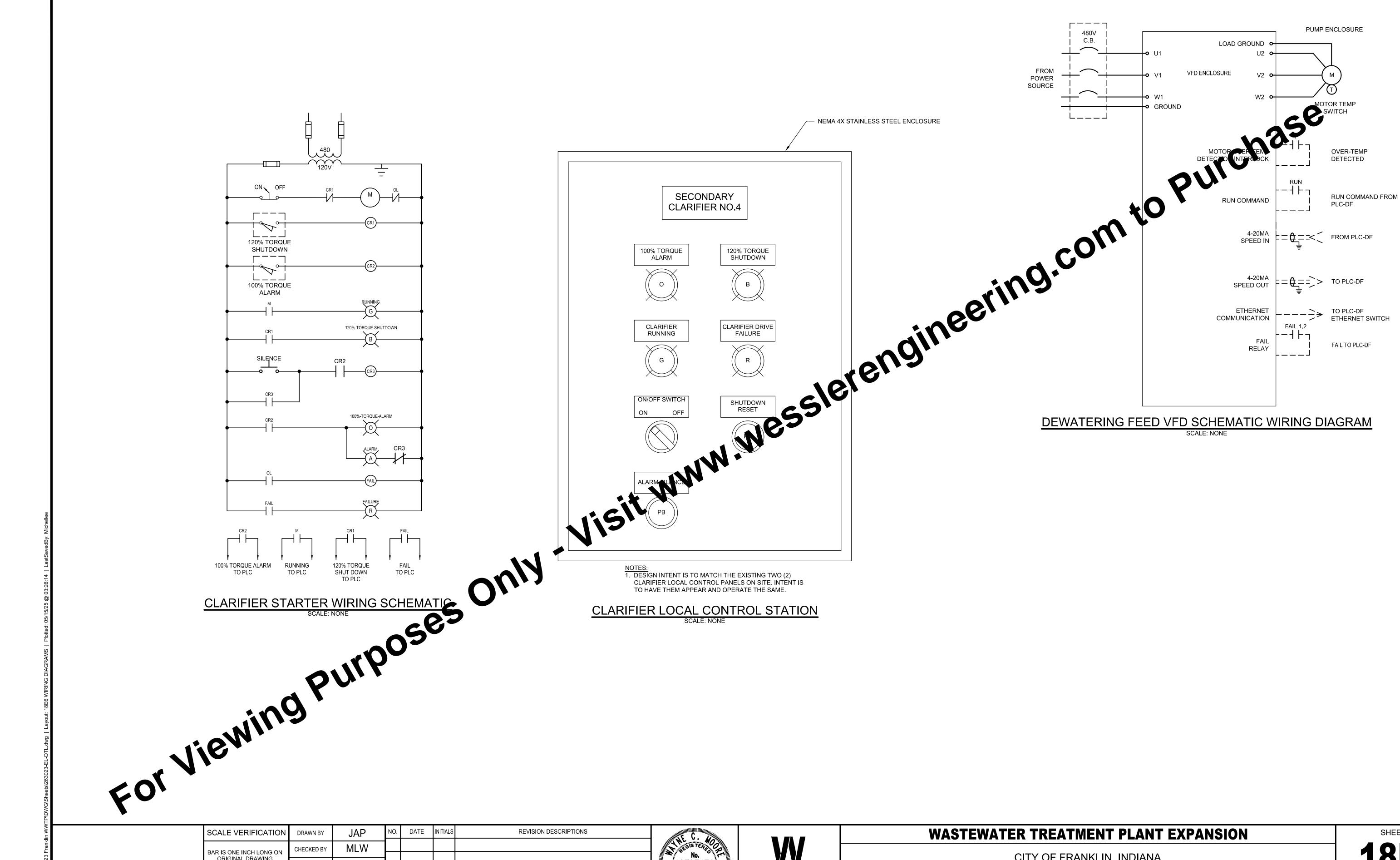
### WASTEWATER TREATMENT PLANT EXPANSION

CITY OF FRANKLIN, INDIANA

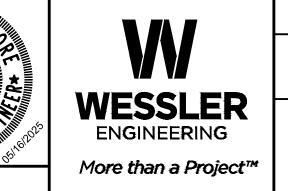
SHEET NO. 18E4

**ELECTRICAL DETAILS - GROUNDING** 





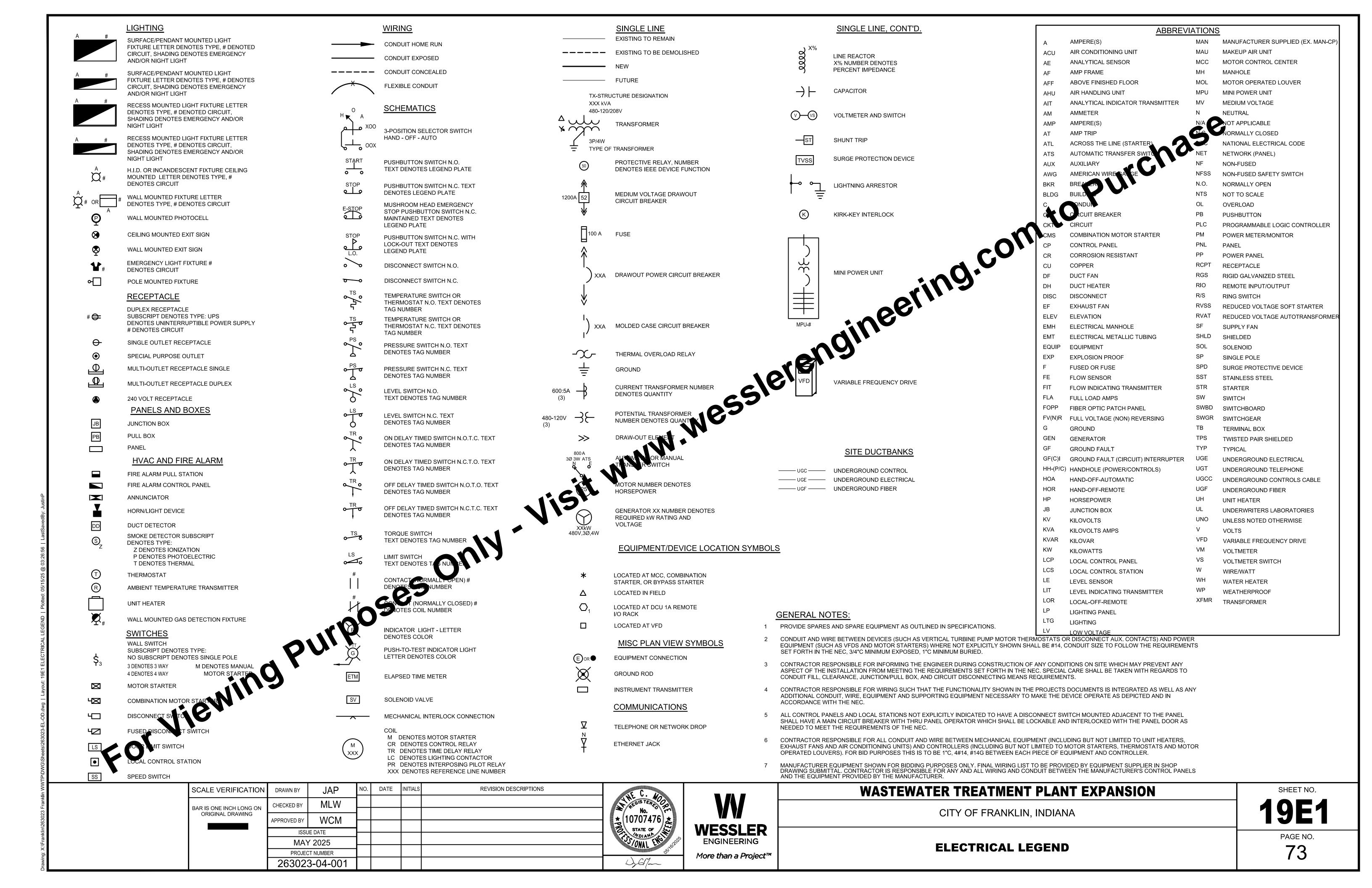
DATE INITIALS REVISION DESCRIPTIONS SCALE VERIFICATION JAP DRAWN BY MLW CHECKED BY BAR IS ONE INCH LONG ON ORIGINAL DRAWING WCM APPROVED BY ISSUE DATE MAY 2025 PROJECT NUMBER 263023-04-001

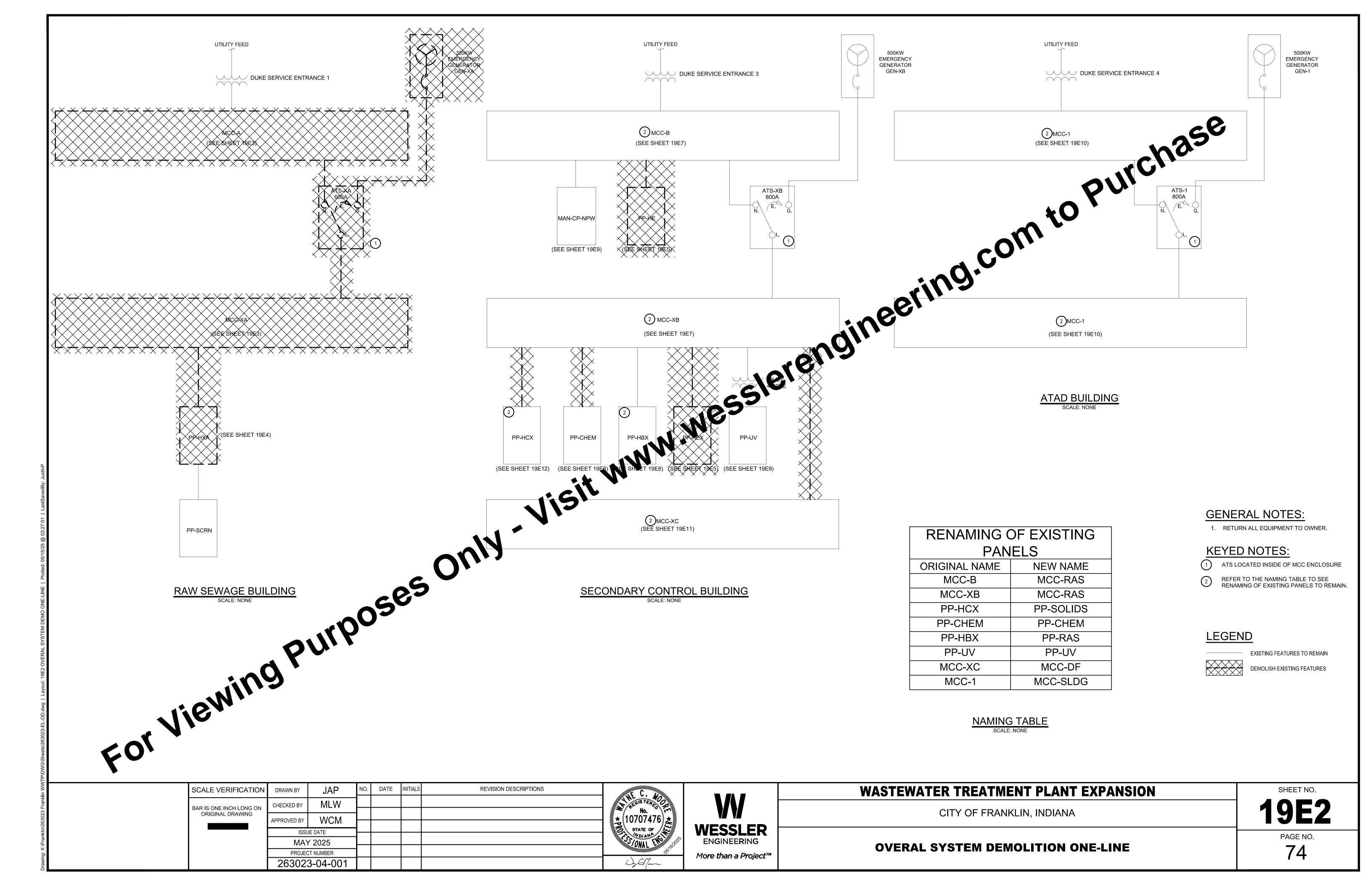


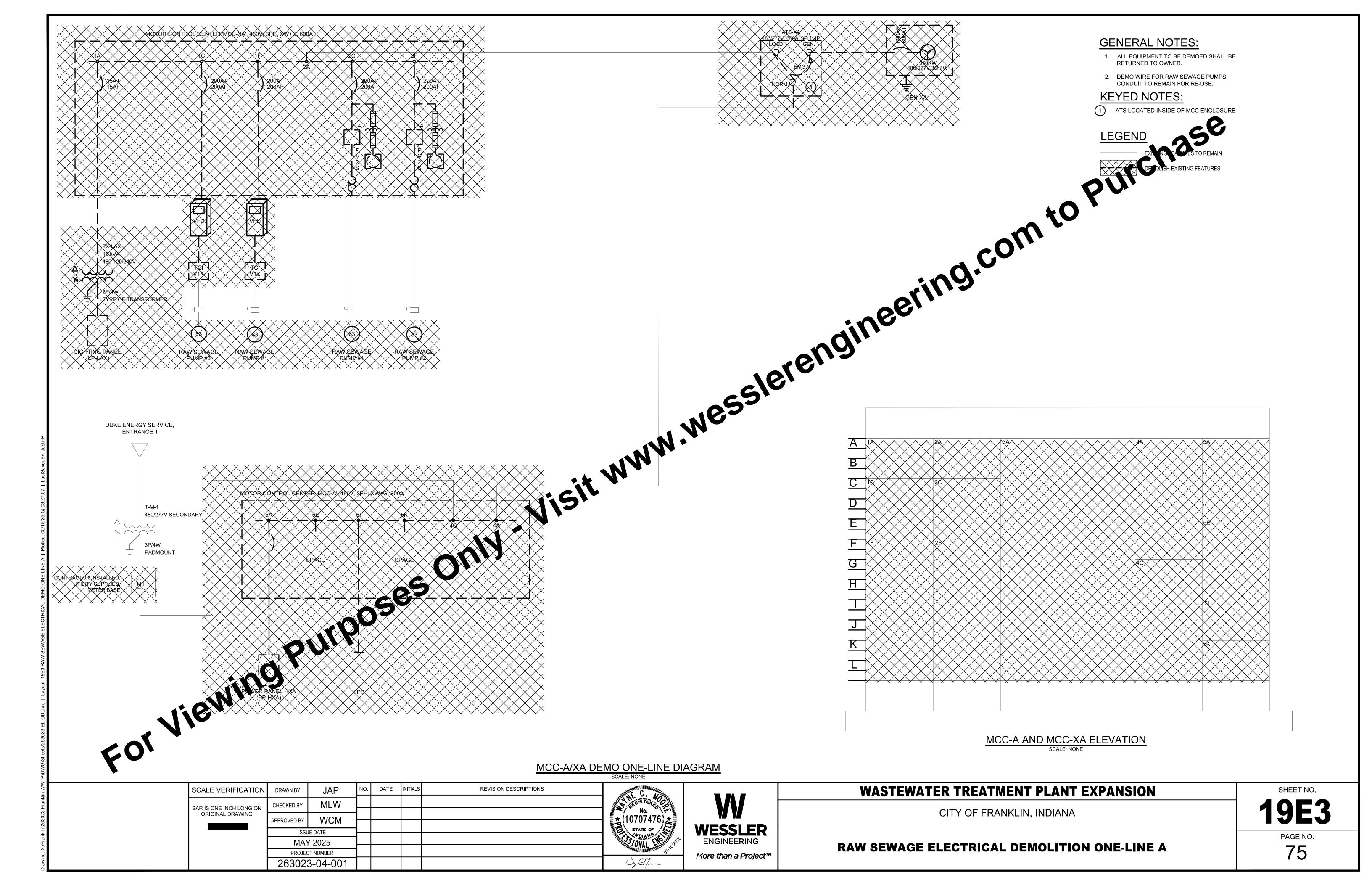
WASTEWATER TREATMENT PLANT EXPANSION CITY OF FRANKLIN, INDIANA

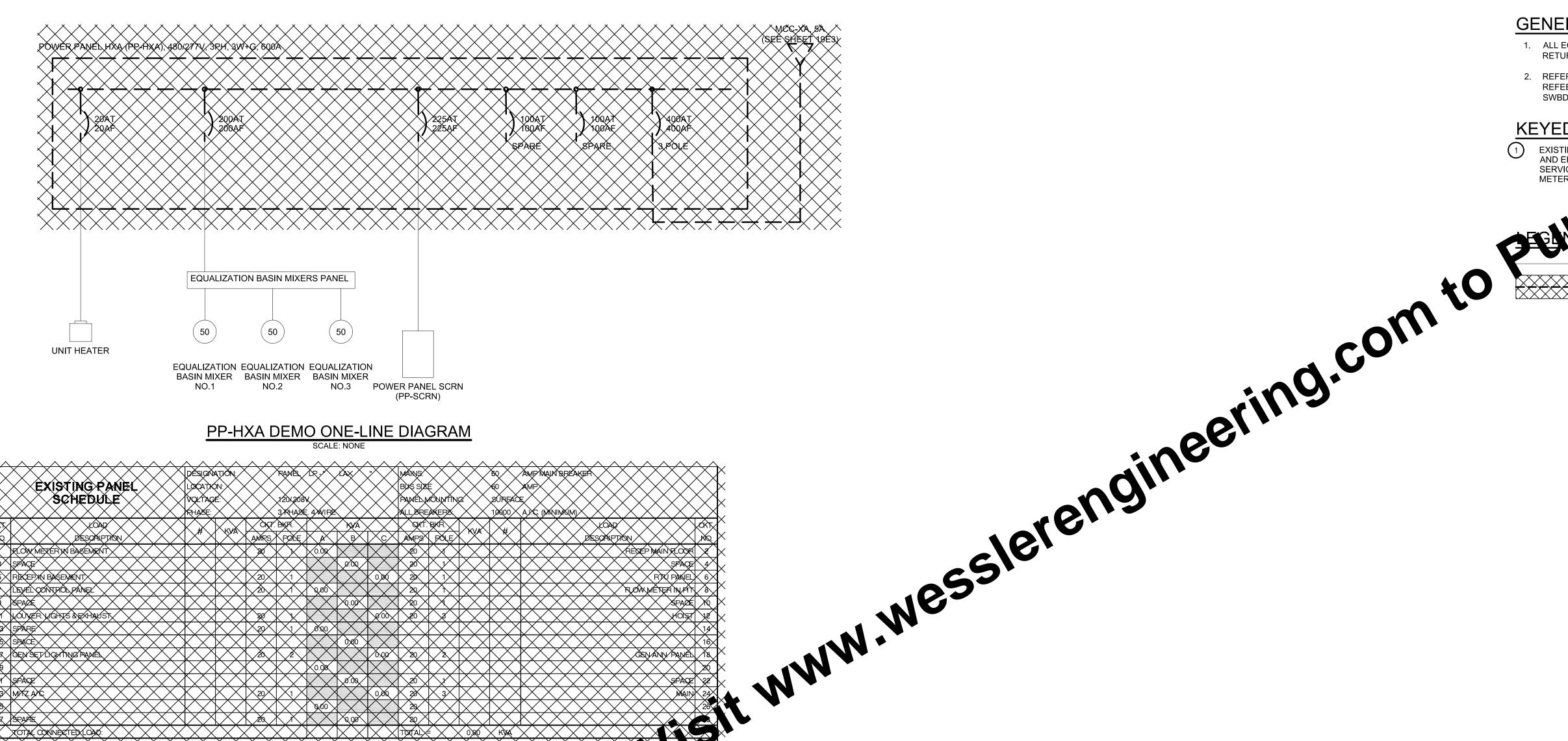
18E6 PAGE NO. **WIRING DIAGRAMS** 

SHEET NO.









## PP-HXA DEMO ONE-LINE DIAGRAM

EXISTING PANEL SCHEDULE MOLTAGE:

For Viewing Purposes Only

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## WASTEWATER TREATMENT PLANT EXPANSION CITY OF FRANKLIN, INDIANA

**RAW SEWAGE ELECTRICAL DEMOLITION ONE-LINE B** 

SHEET NO.

PAGE NO. 76

EXISTING FEATURES TO REMAIN DEMOLISH EXISTING FEATURES

**GENERAL NOTES:** 

RETURNED TO OWNER.

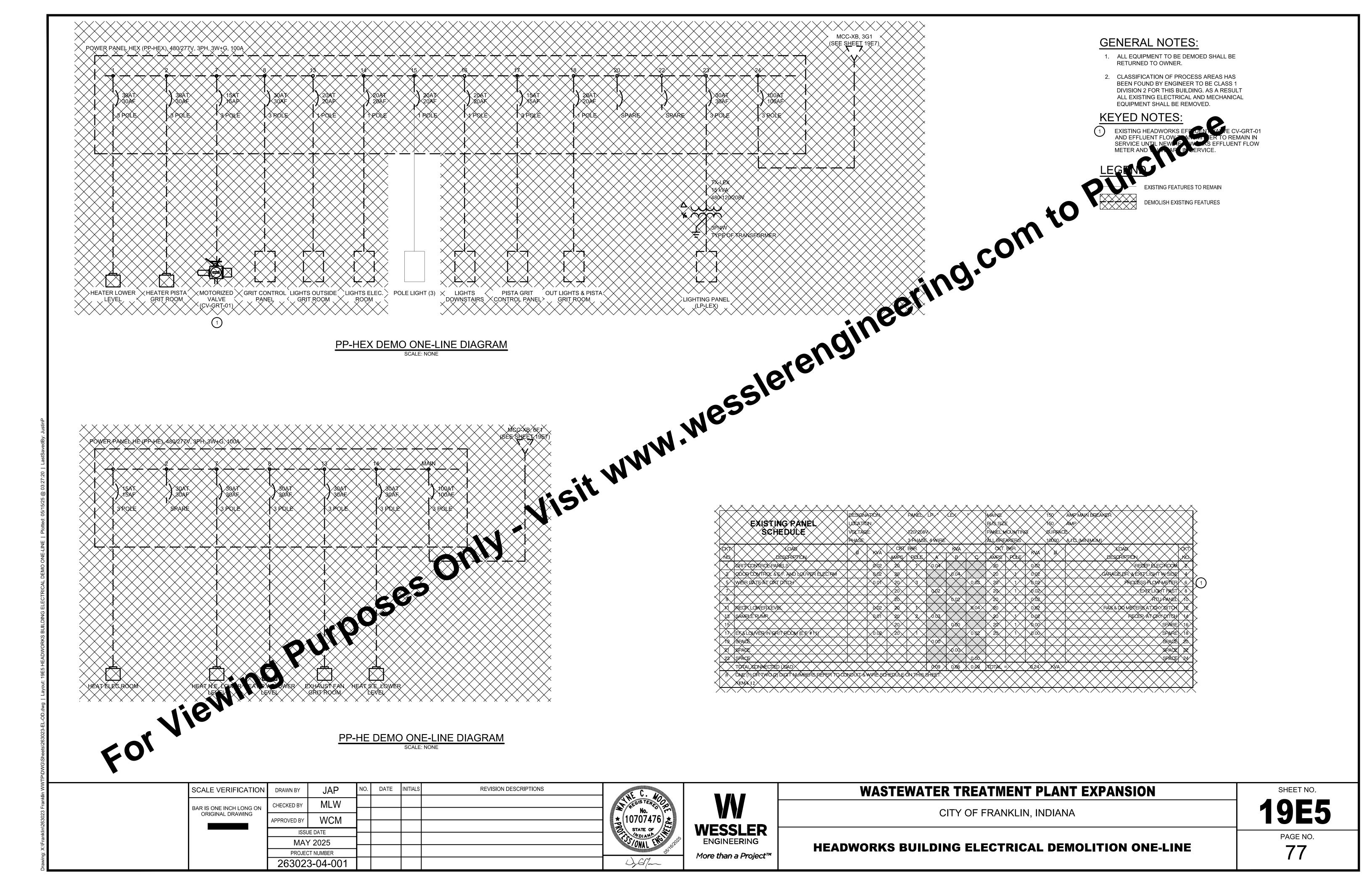
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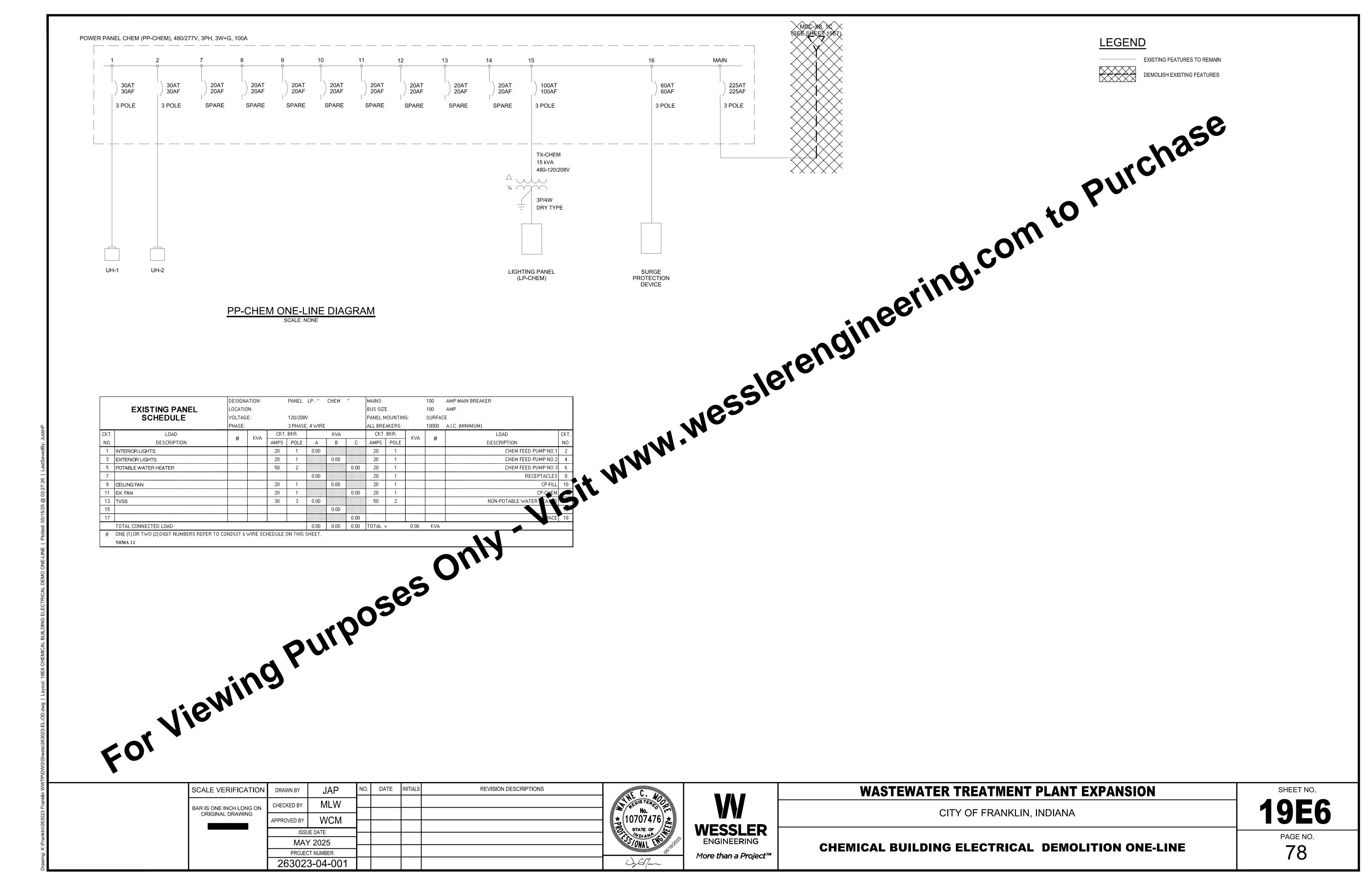
**KEYED NOTES:** 

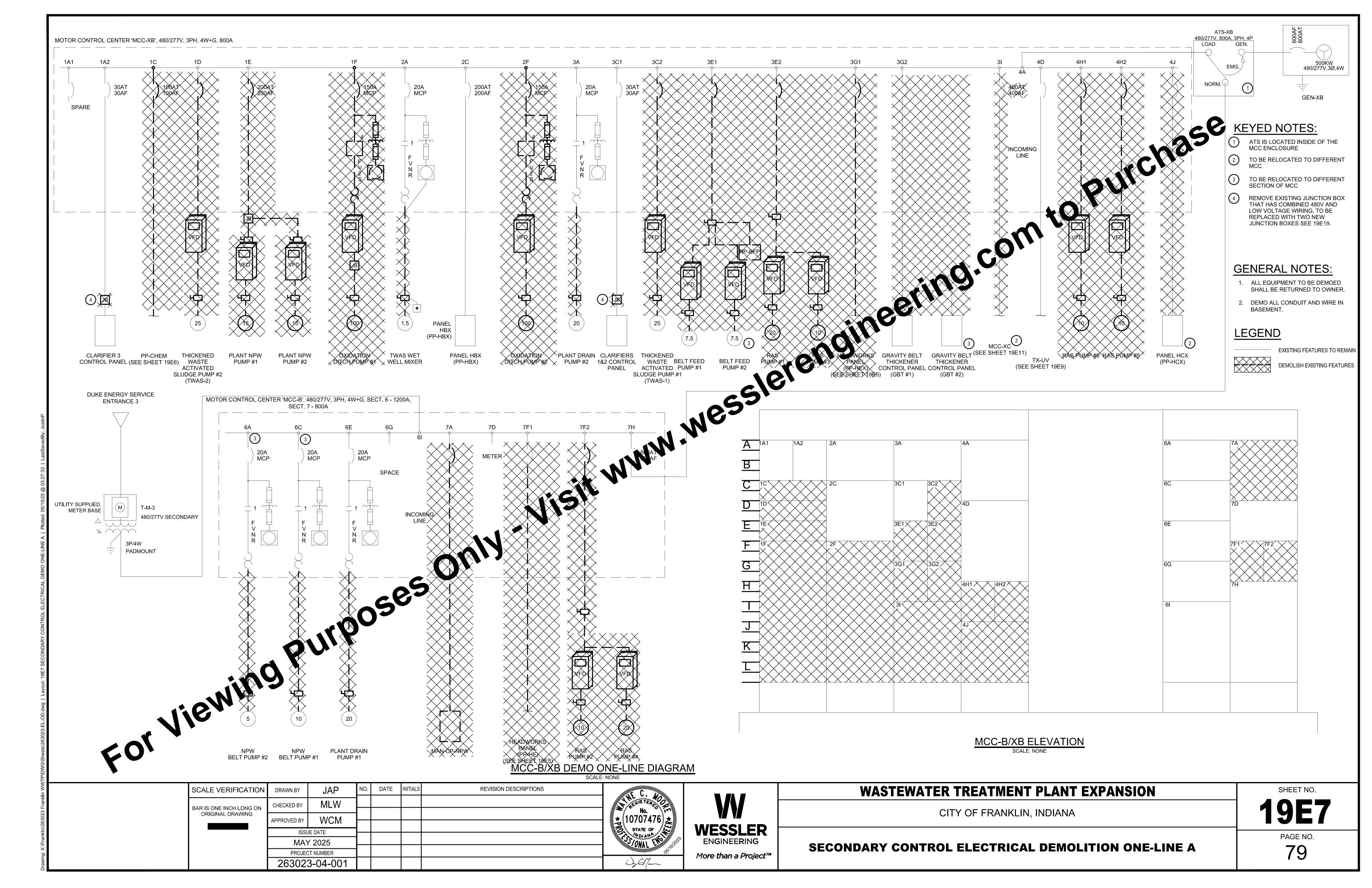
1. ALL EQUIPMENT TO BE DEMOED SHALL BE

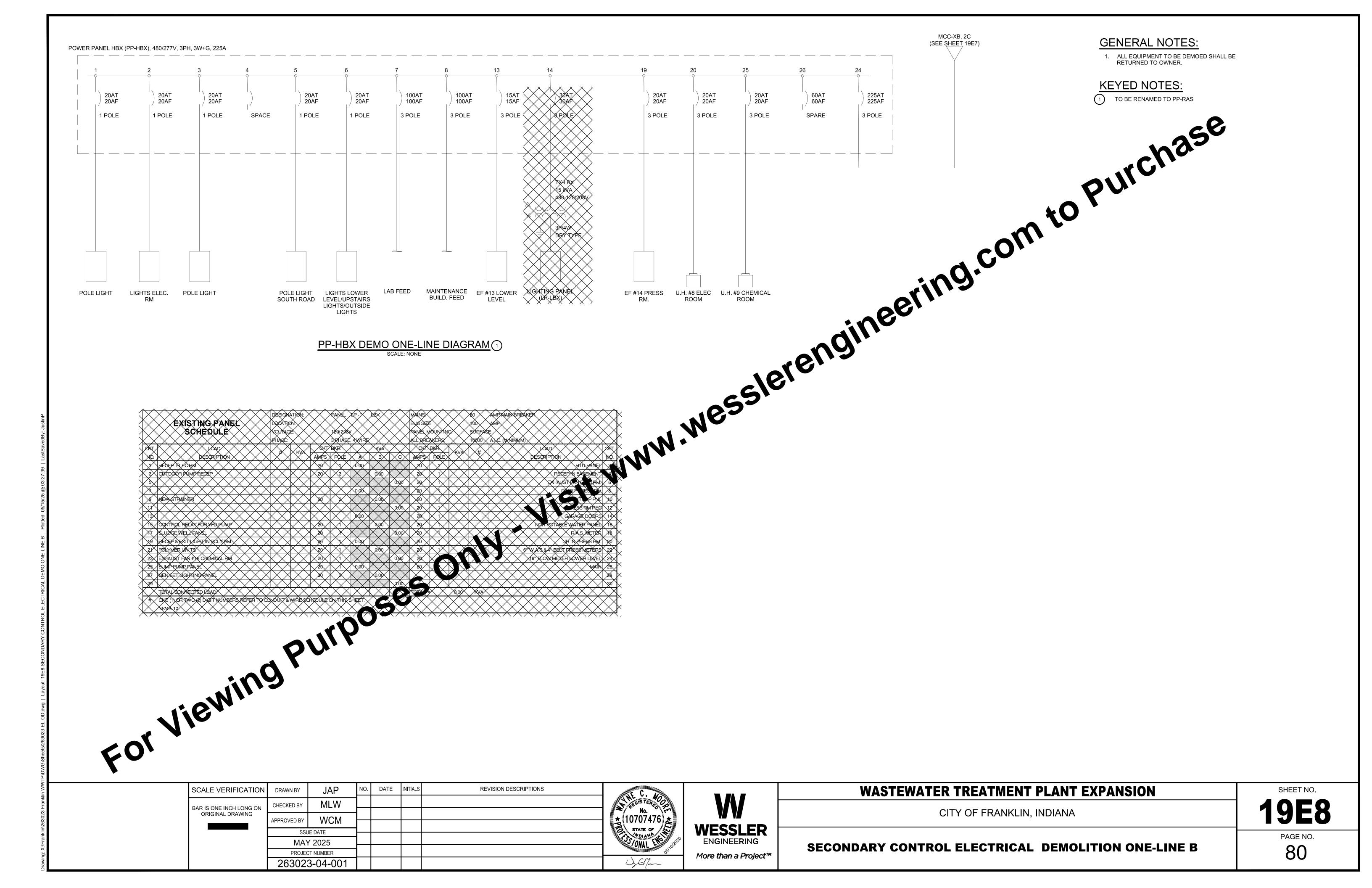
2. REFER TO SHEET 19E14 FOR DETAILS ON REFEEDING REMAINING LOADS FROM

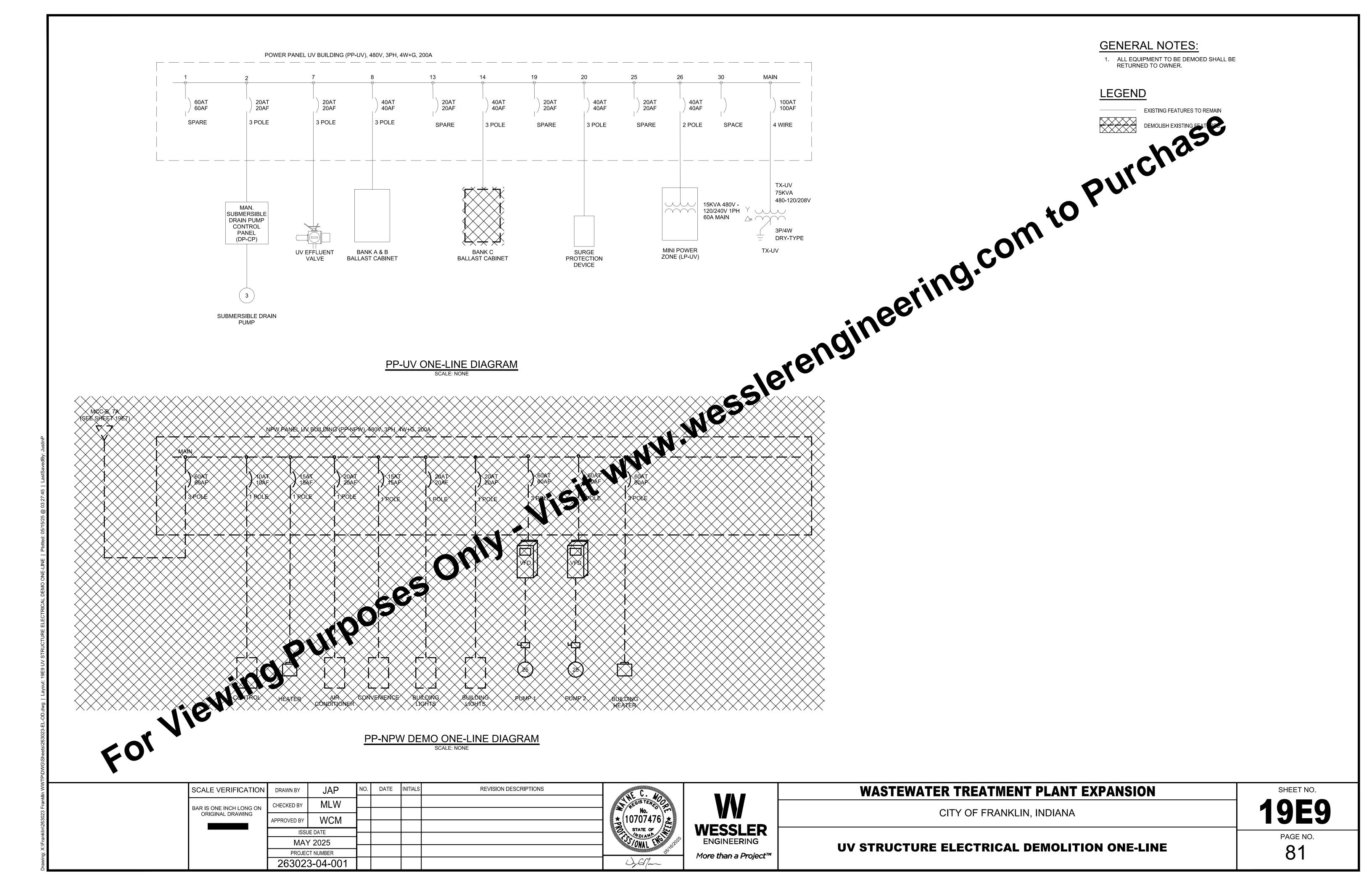
EXISTING HEADWORKS EFFLUENT APACE AND EFFLUENT FLOW TRANS AMERICAN SERVICE UNTIL NEW HEADWORKS EFFLUENCE AND VALVE ARE IN TERMINAL.

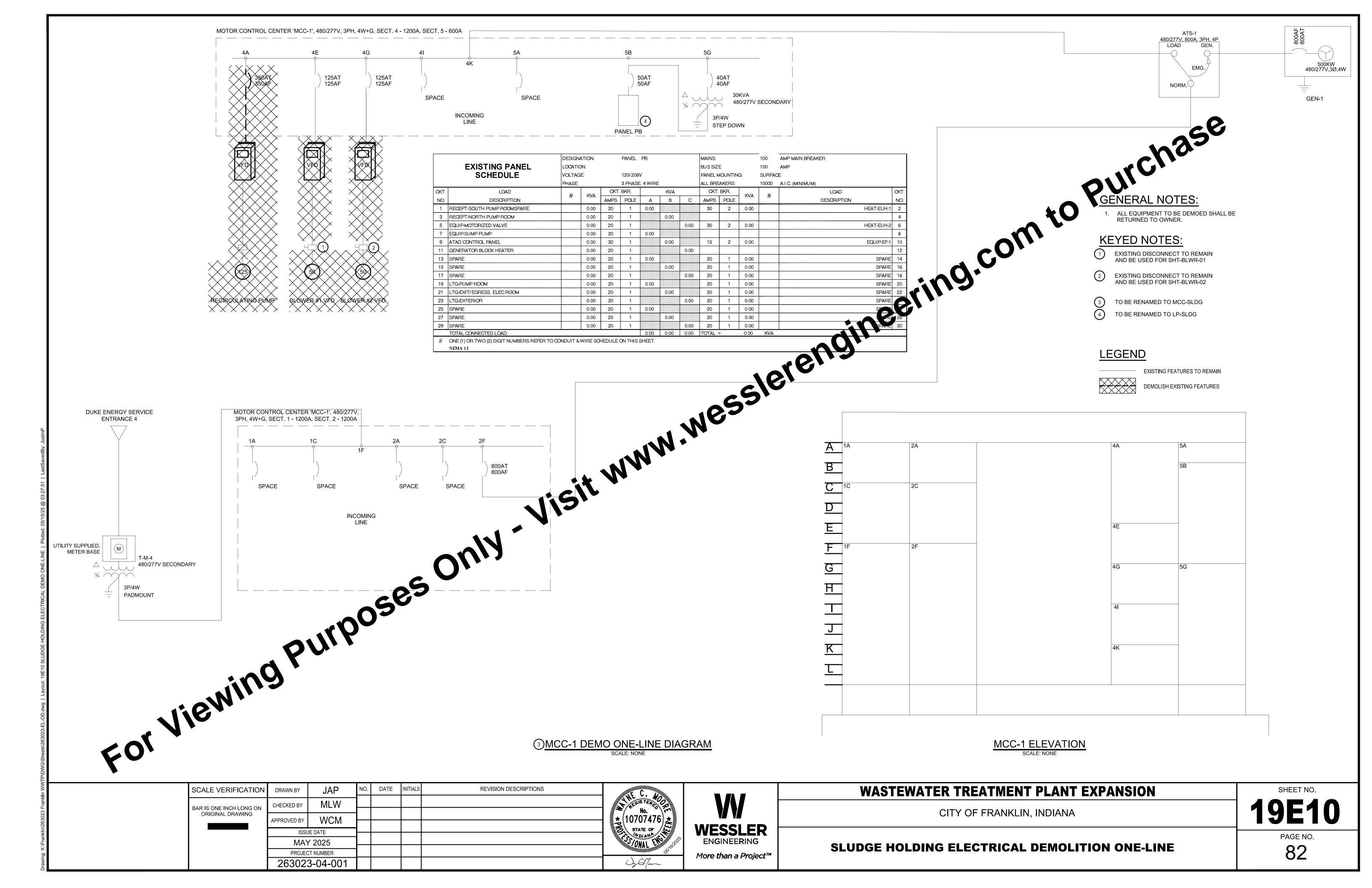


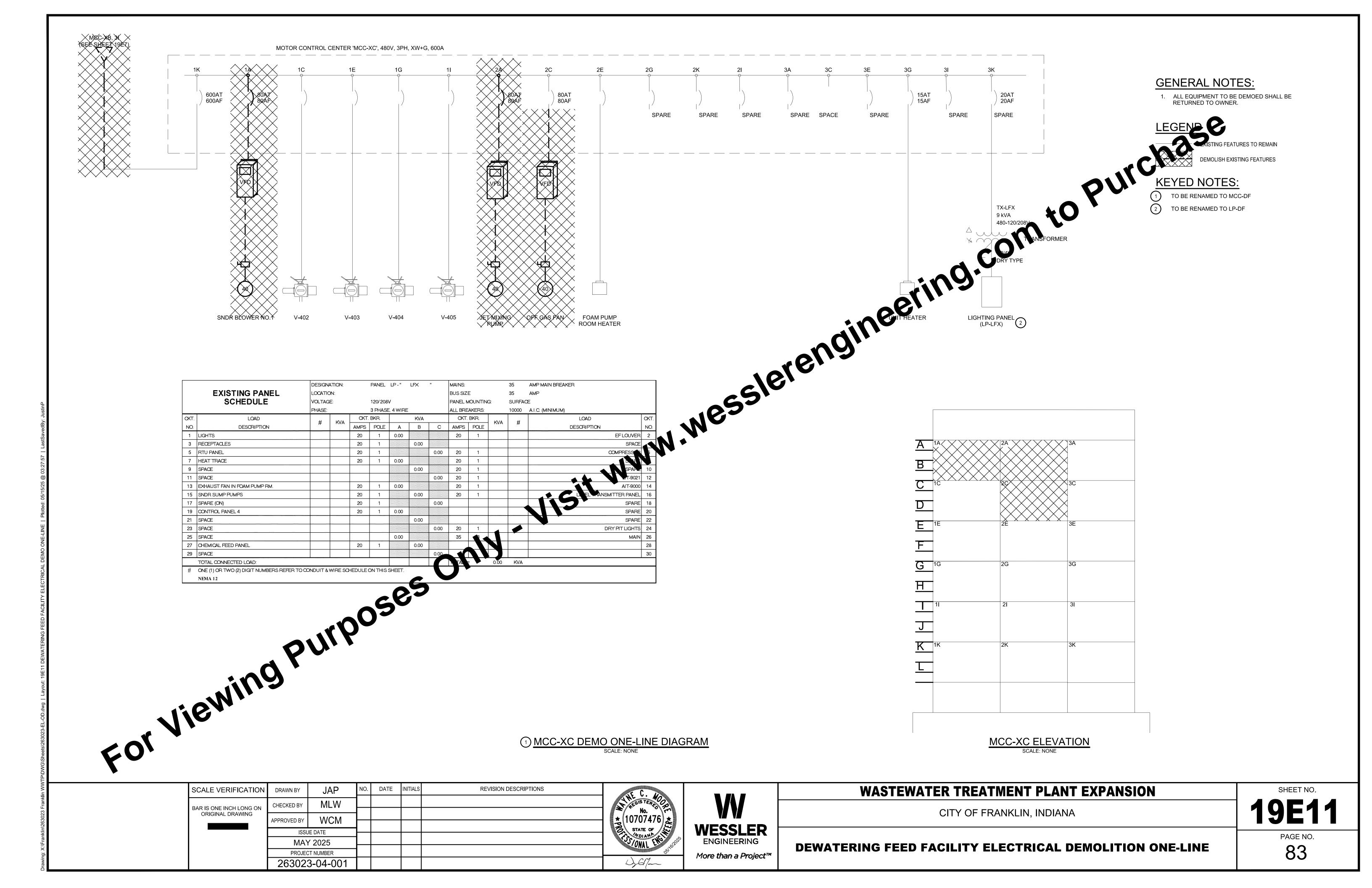


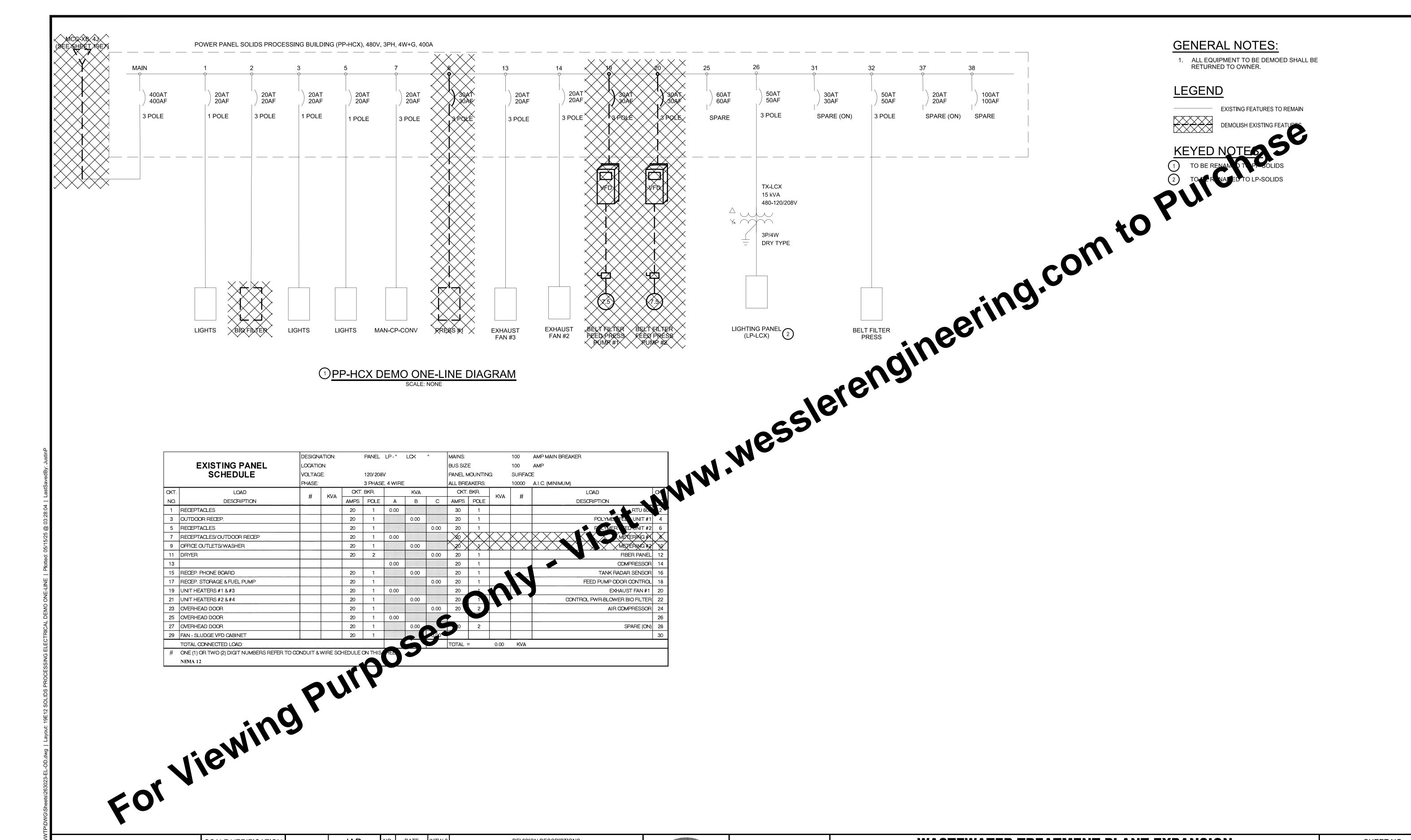












SCALE VERIFICATION DRAWN BY JAP NO. DATE INITIALS REVISION DESCRIPTIONS

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APPROVED BY WCM

ISSUE DATE

MAY 2025

PROJECT NUMBER

263023-04-001

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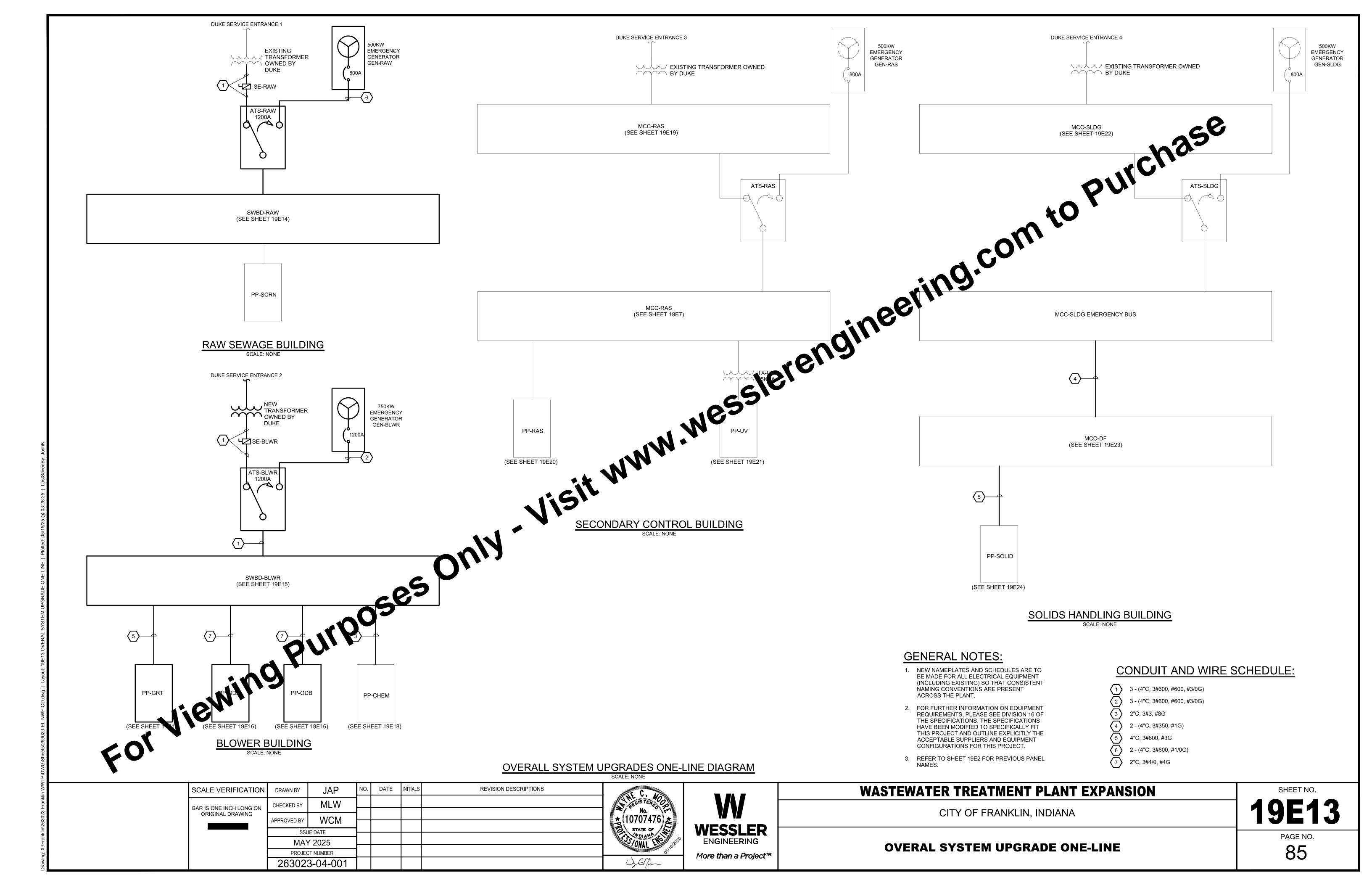
WASTEWATER TREATMENT PLANT EXPANSION

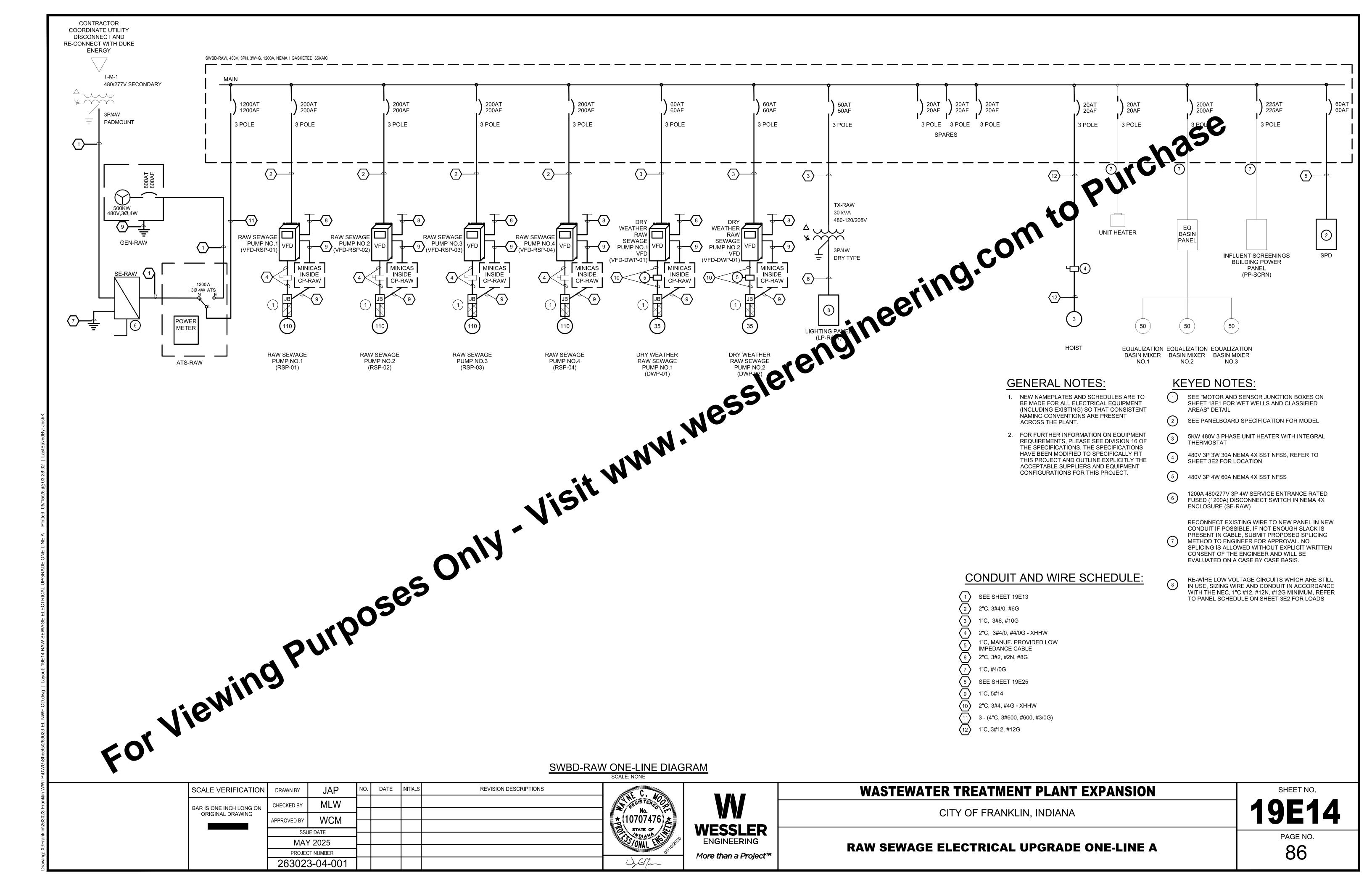
CITY OF FRANKLIN, INDIANA

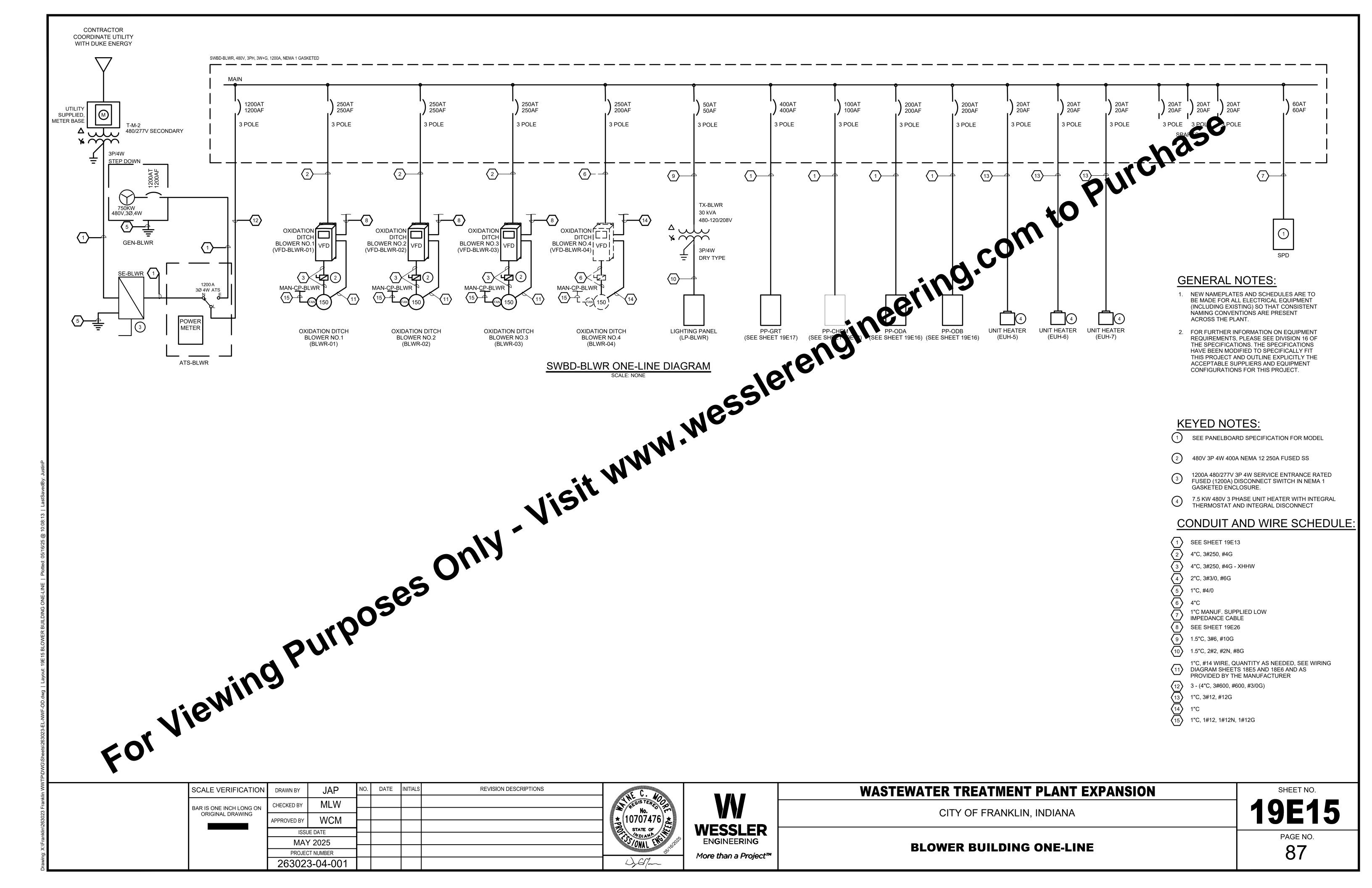
SOLIDS PROCESS ELECTRICAL DEMOLITION ONE-LINE

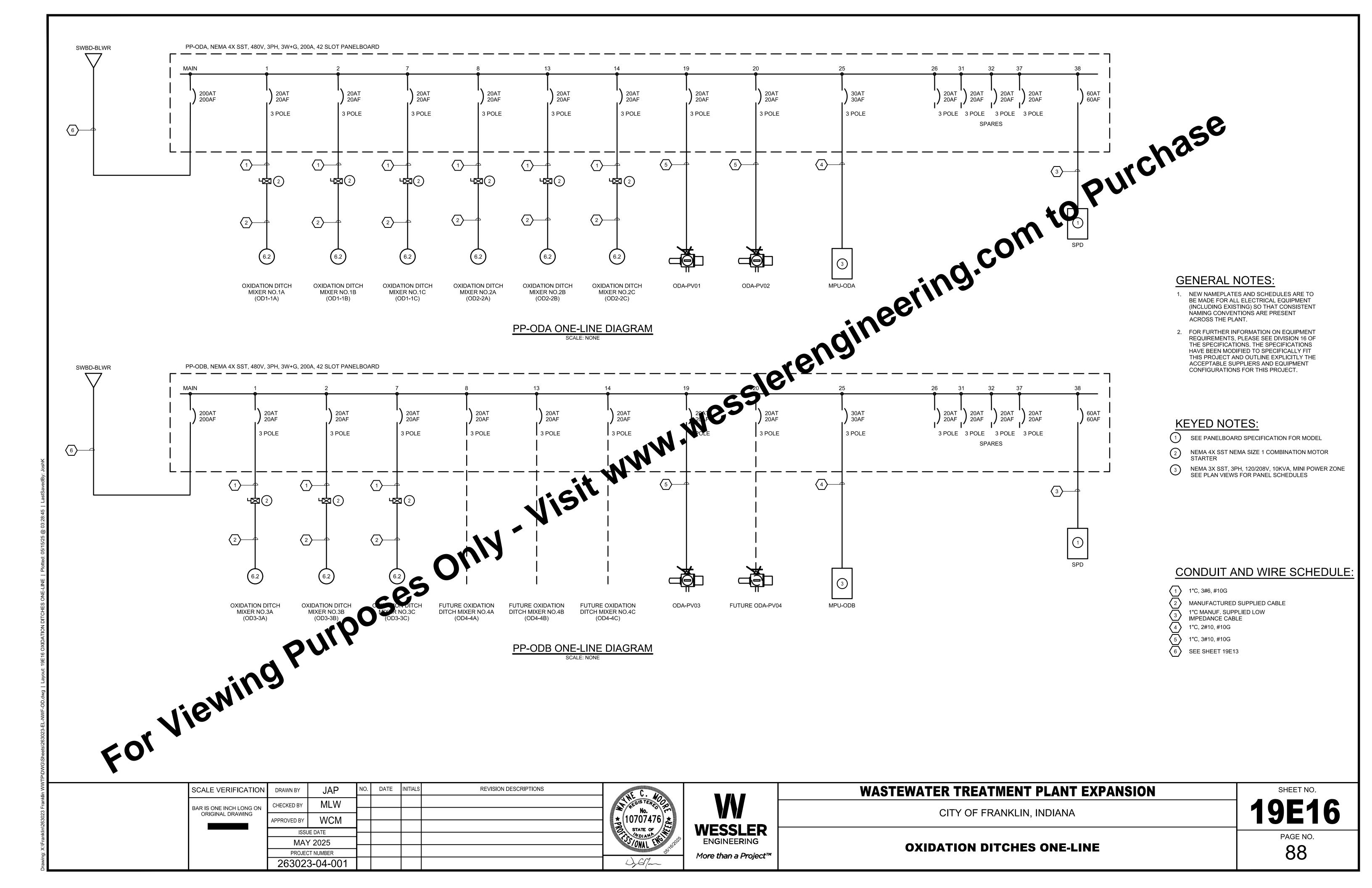
19E12

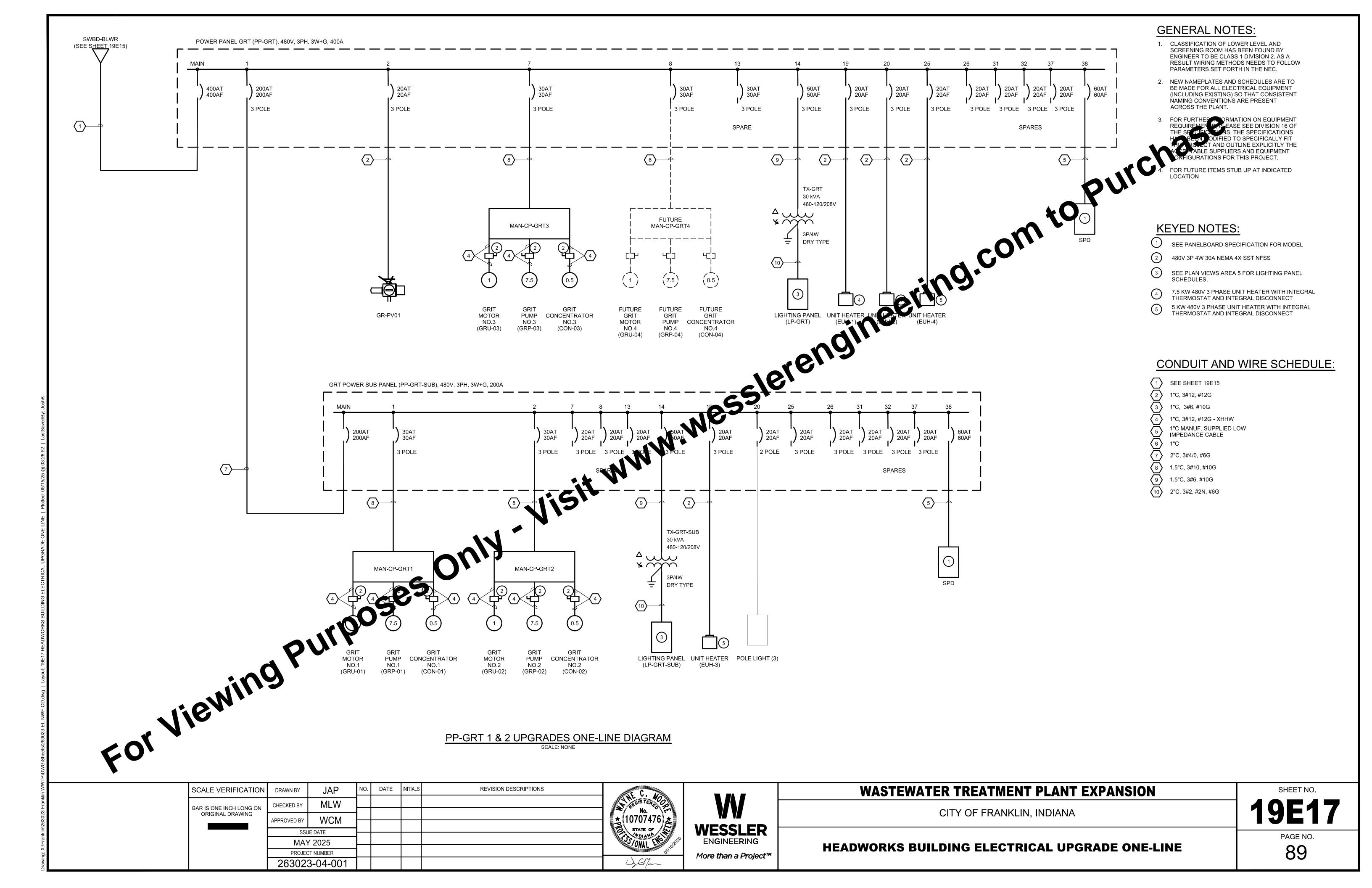
PAGE NO. **84** 

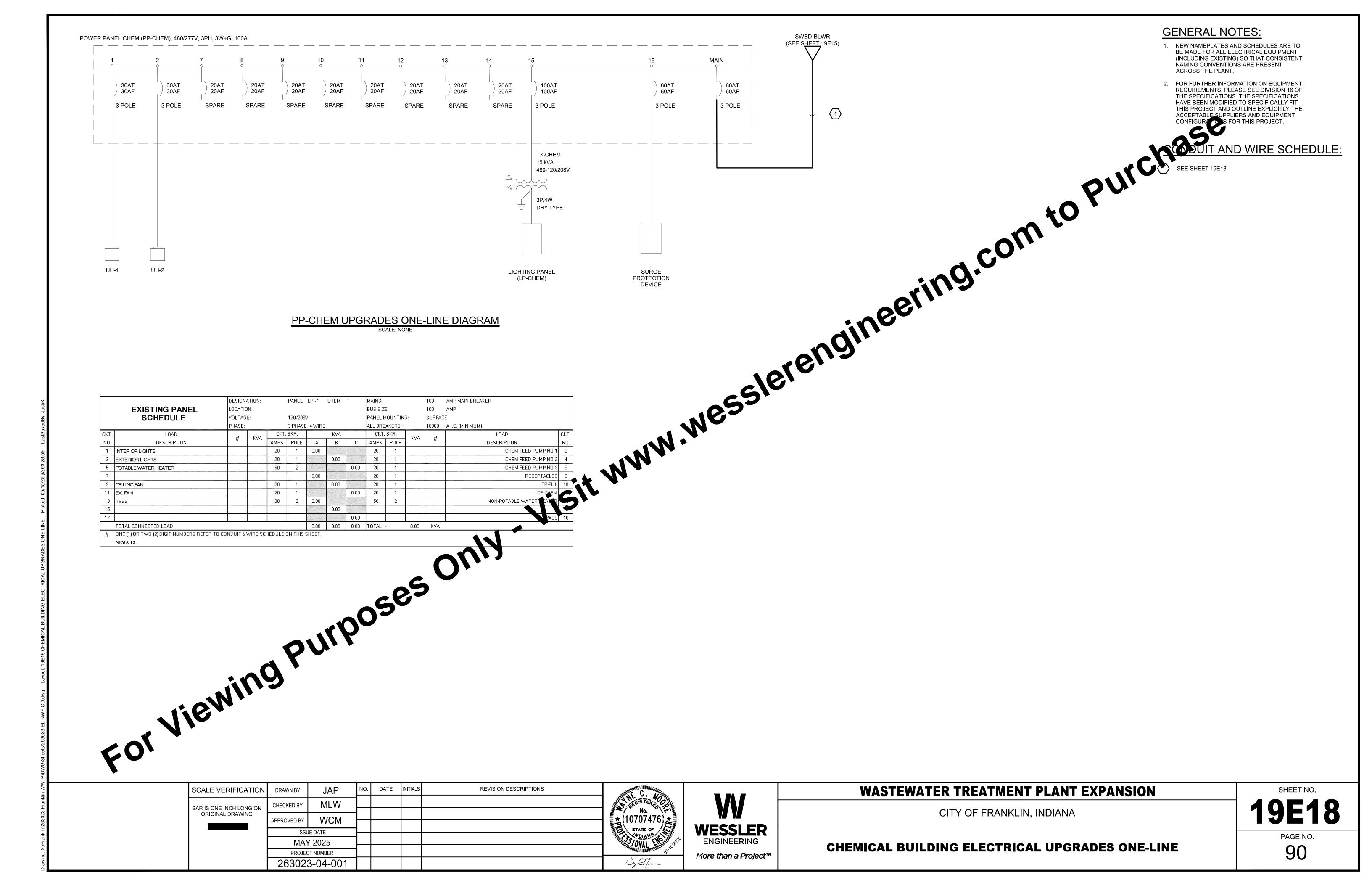


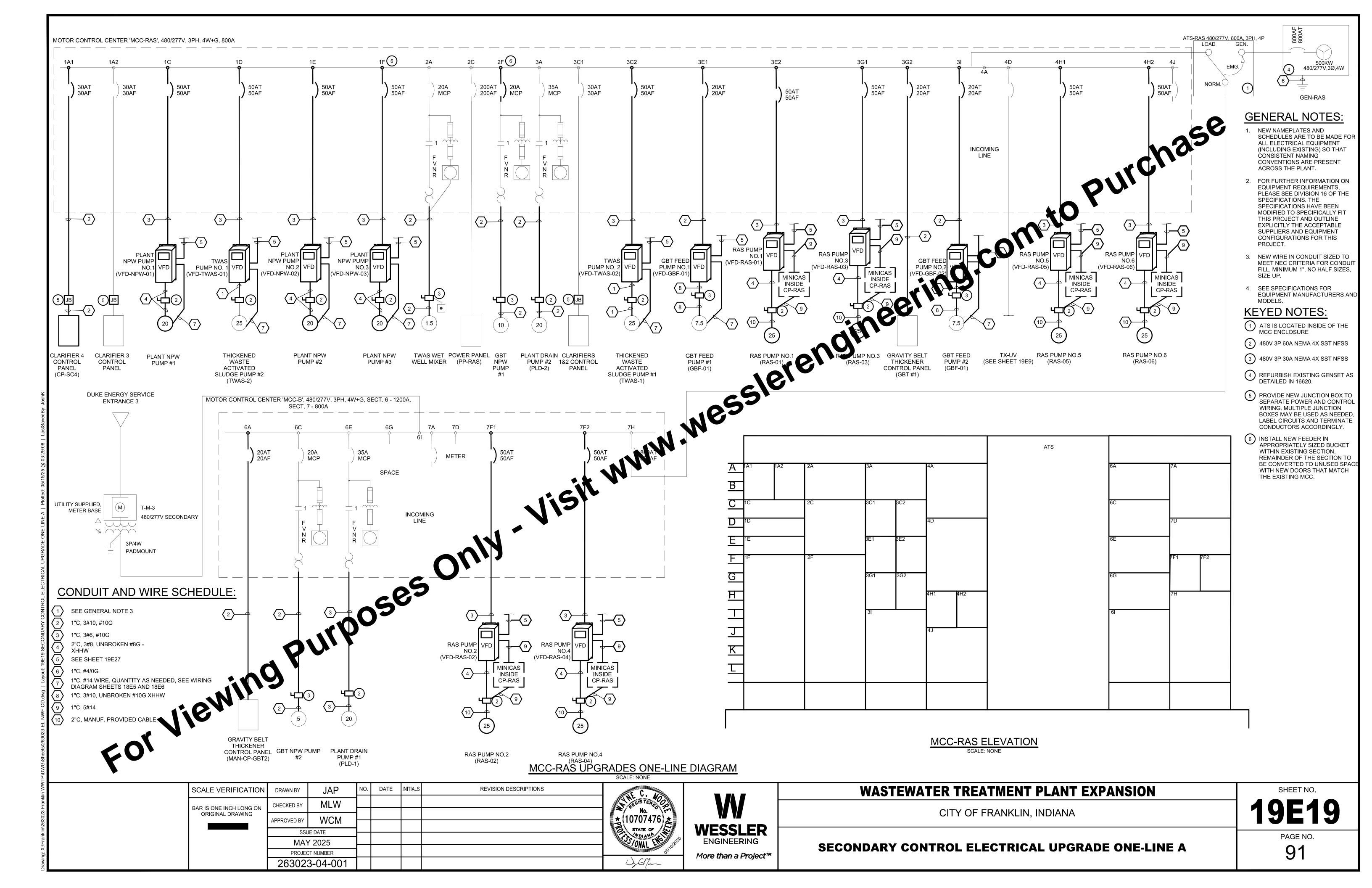


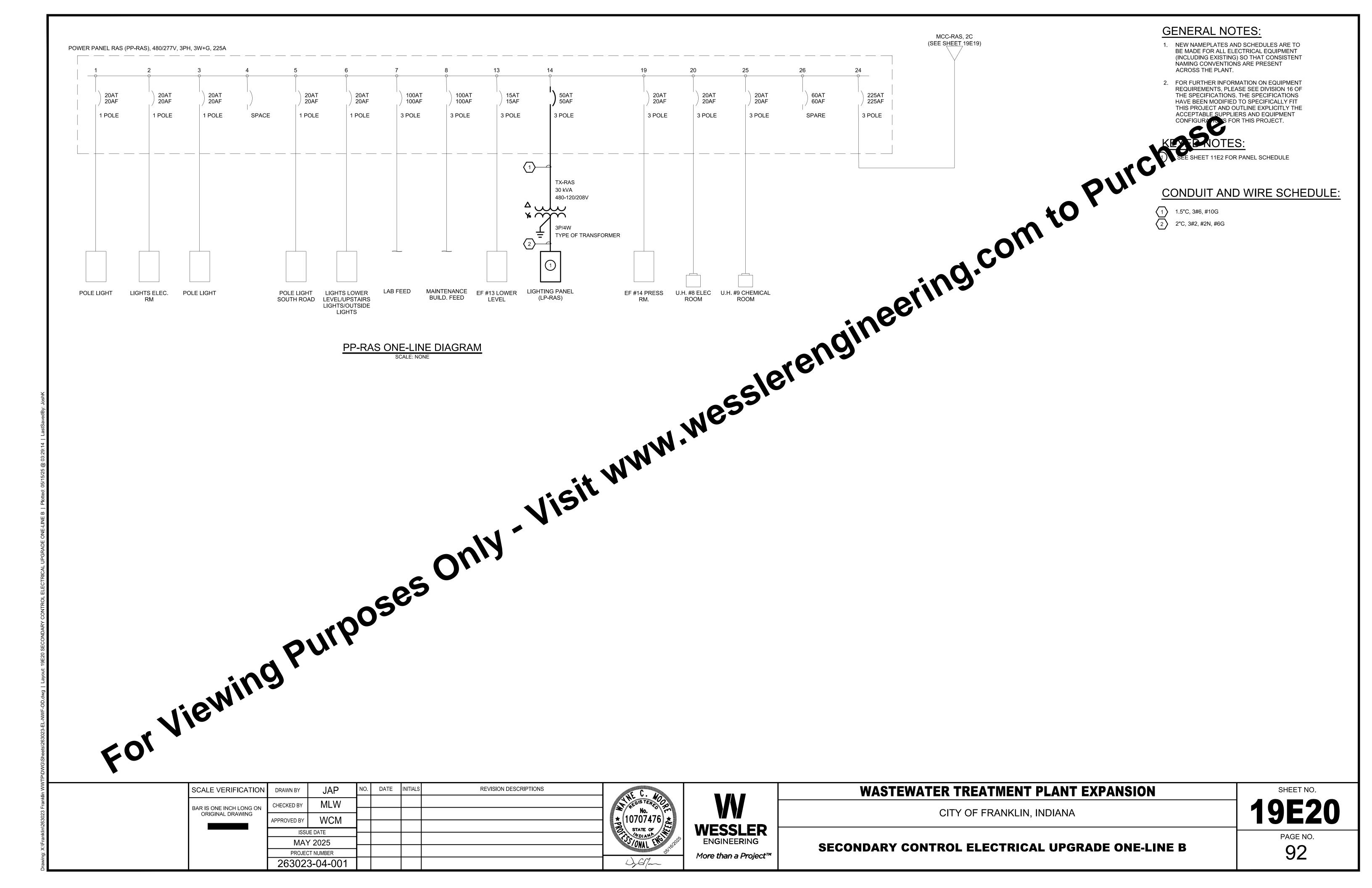


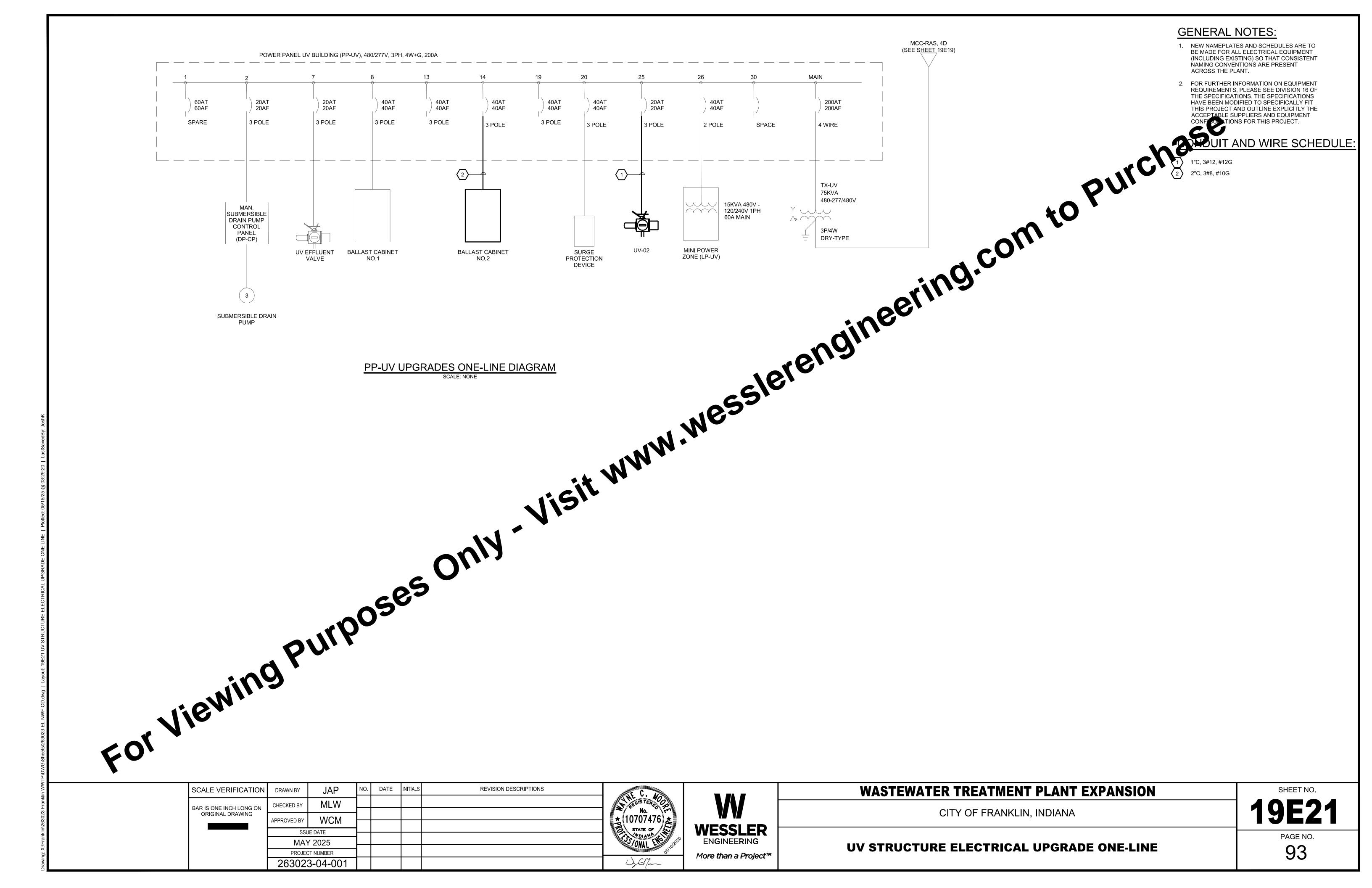


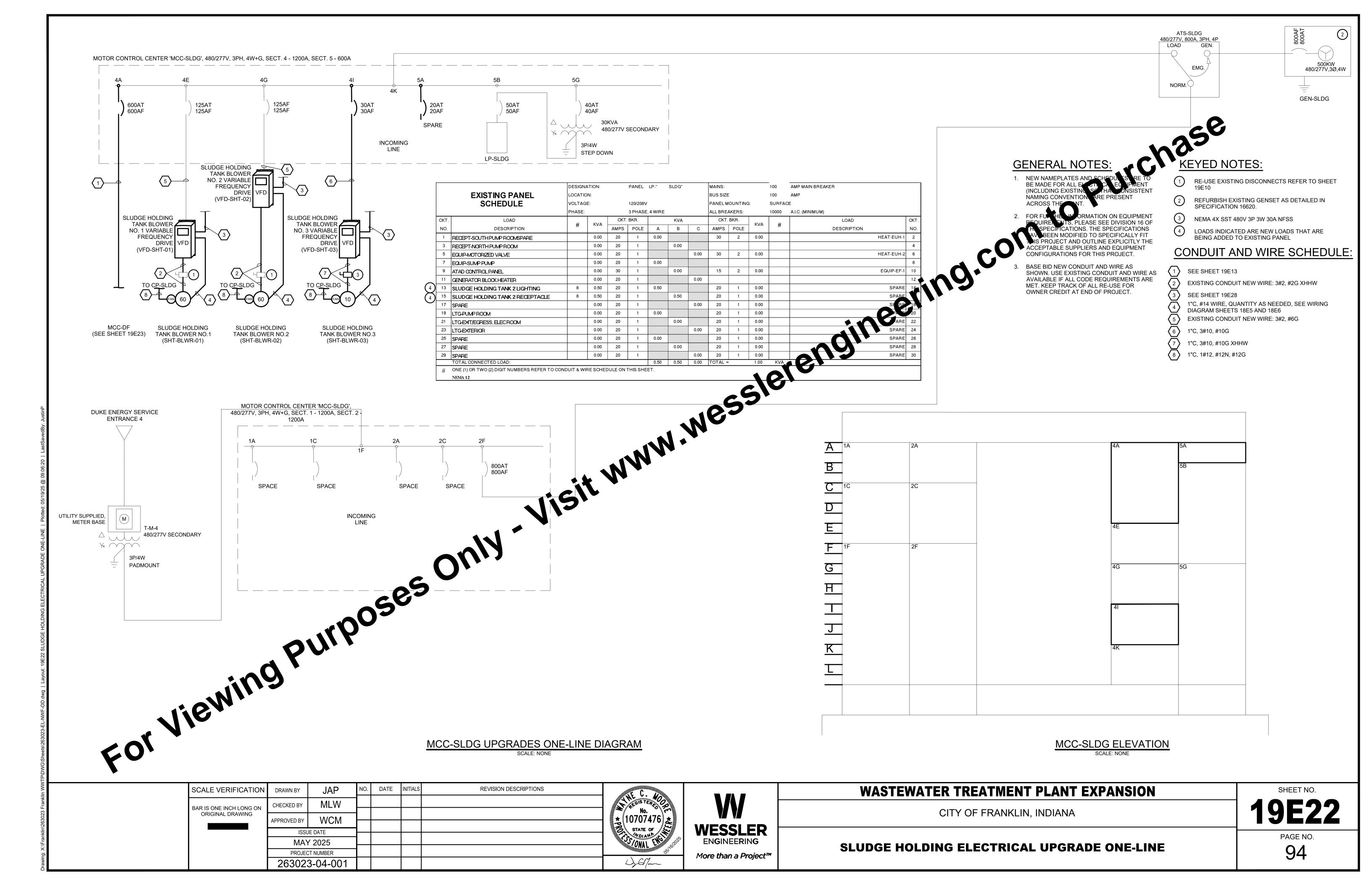


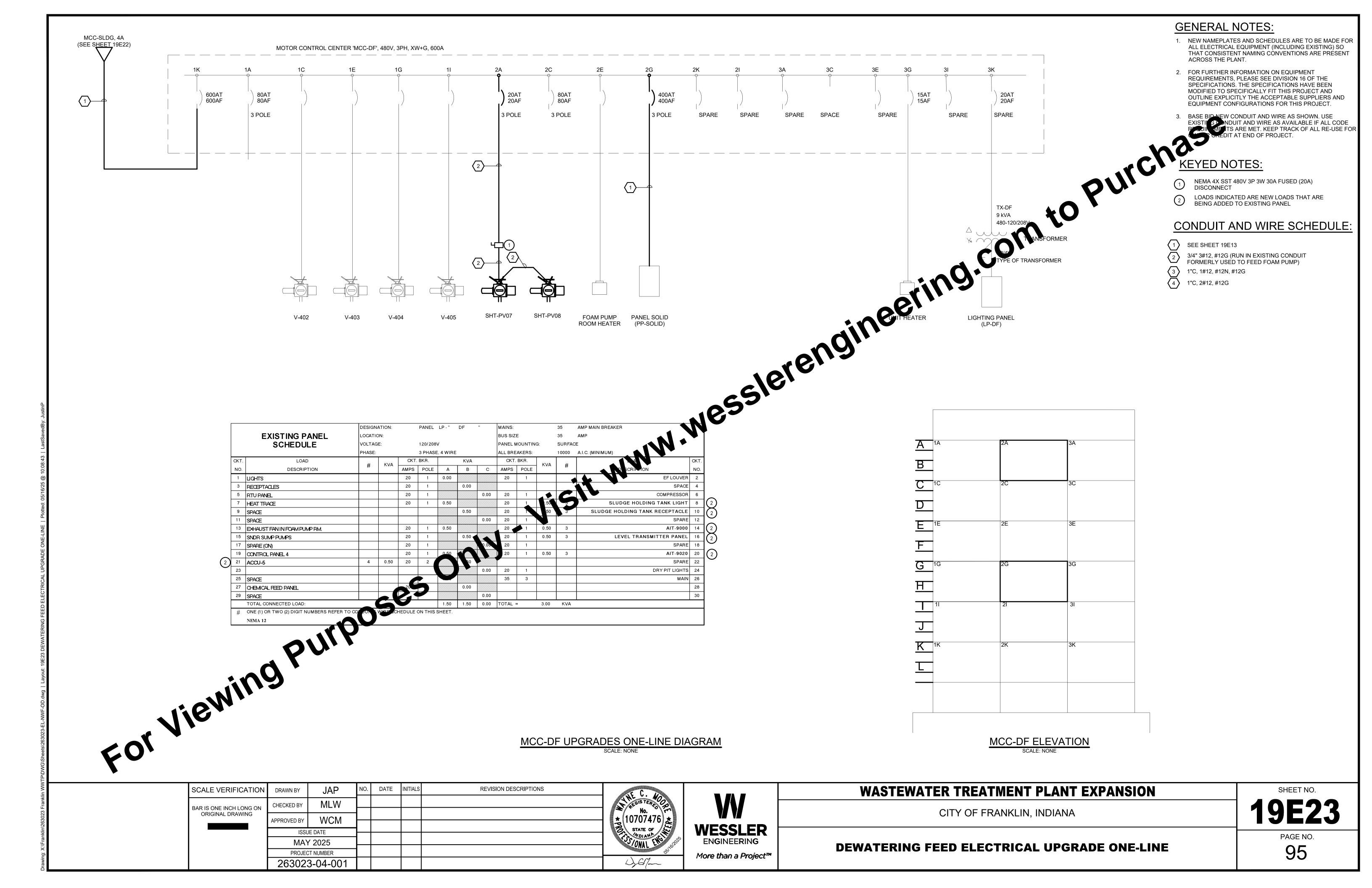


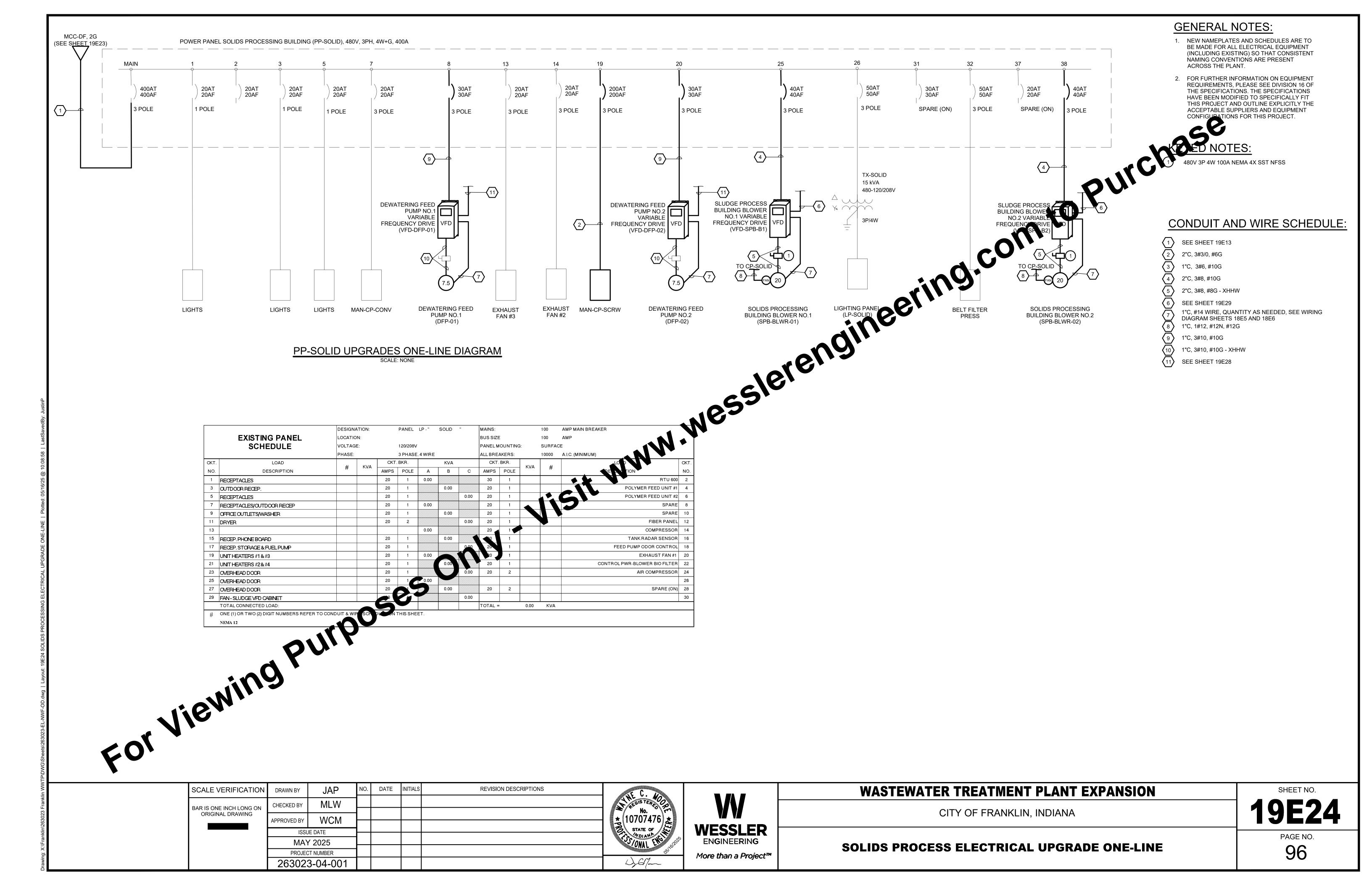


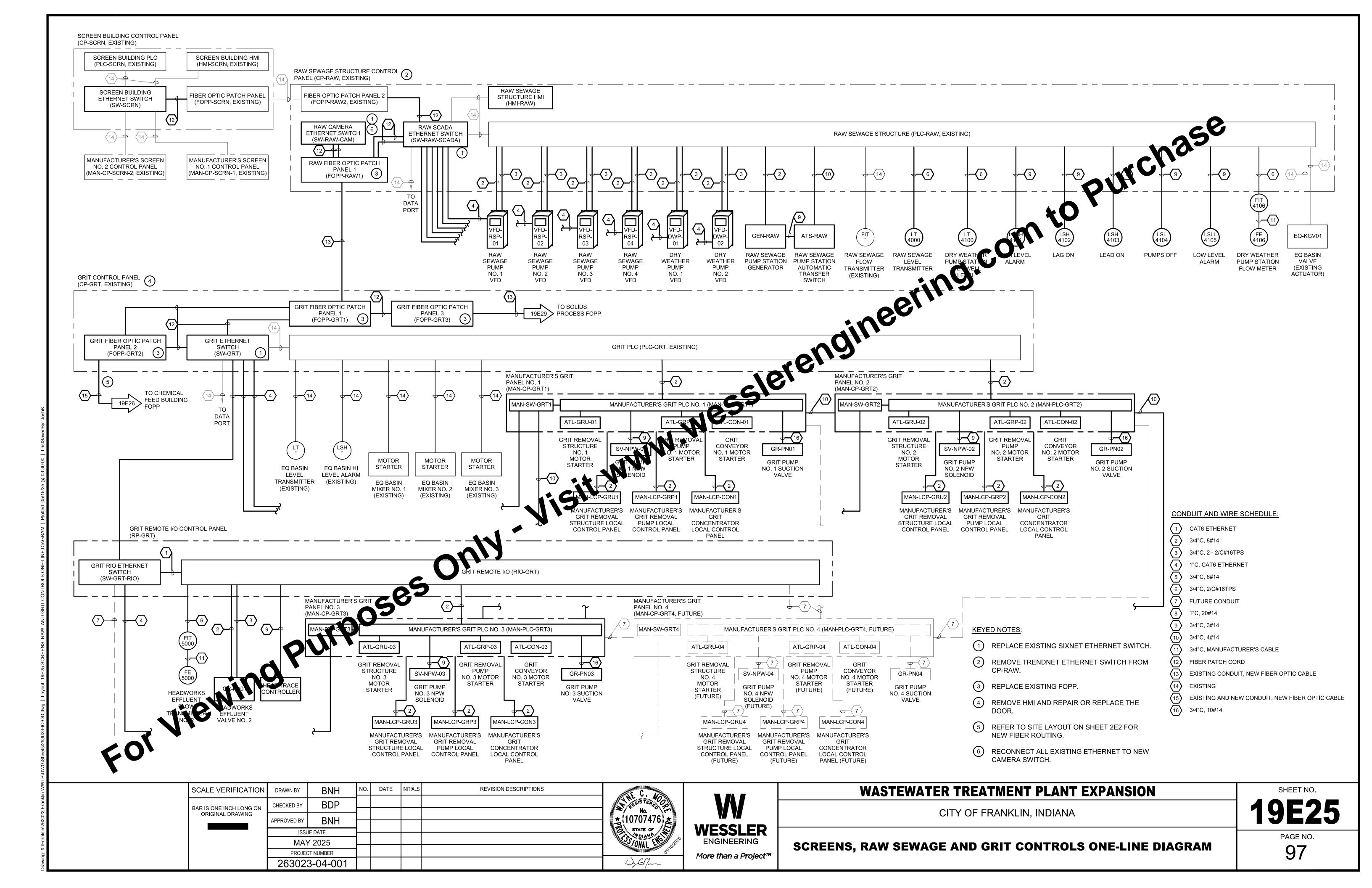


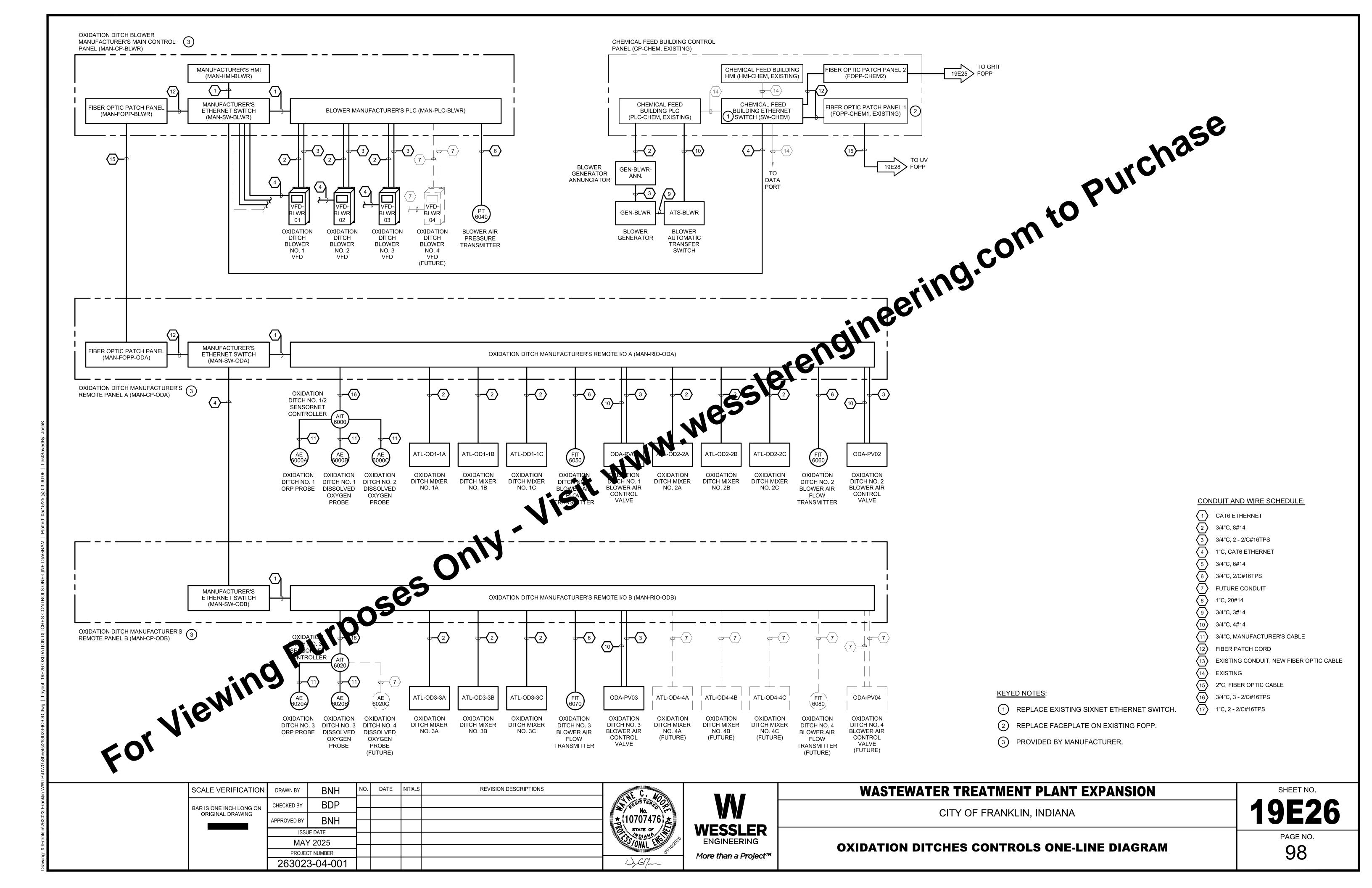


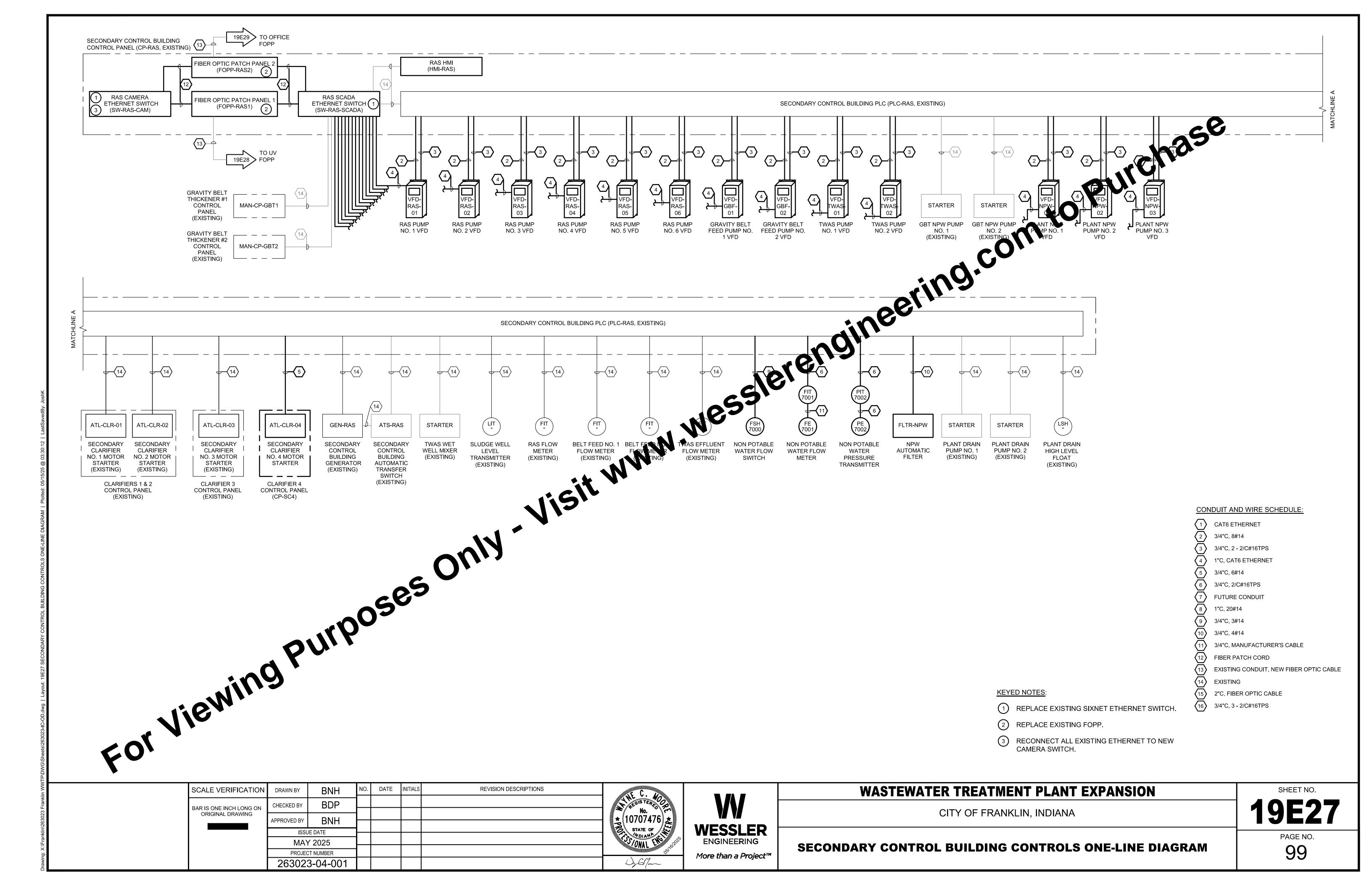


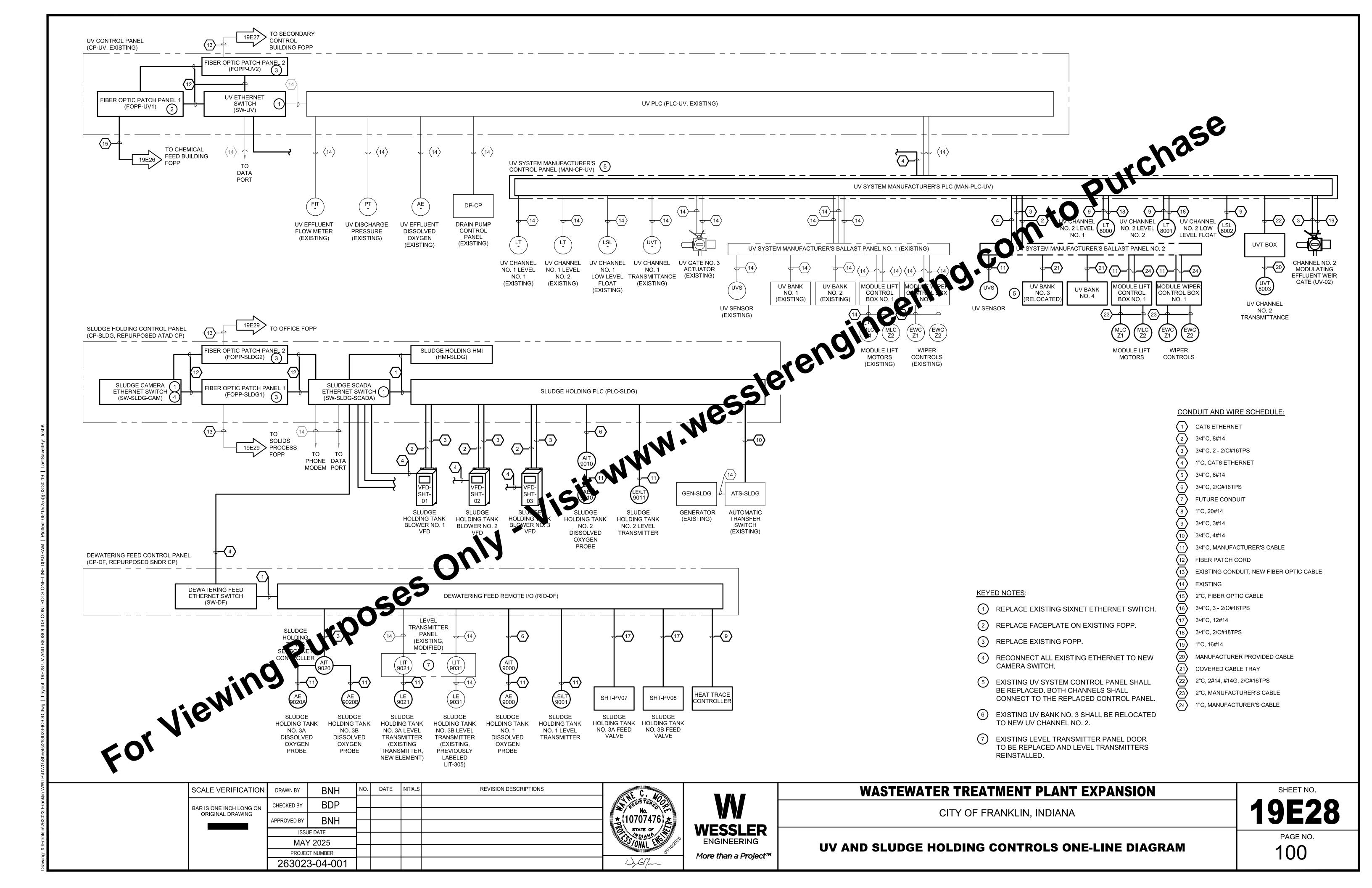


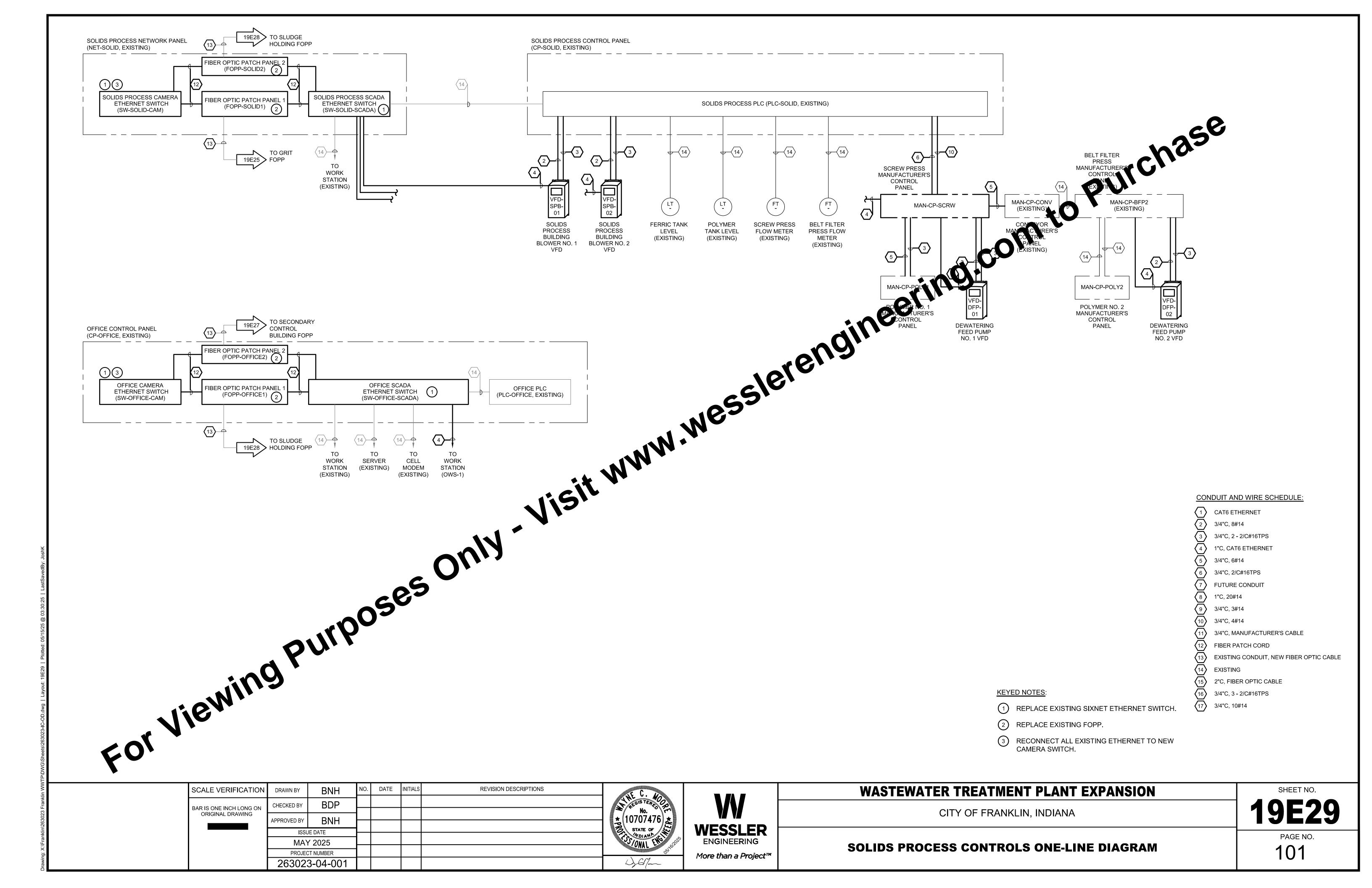


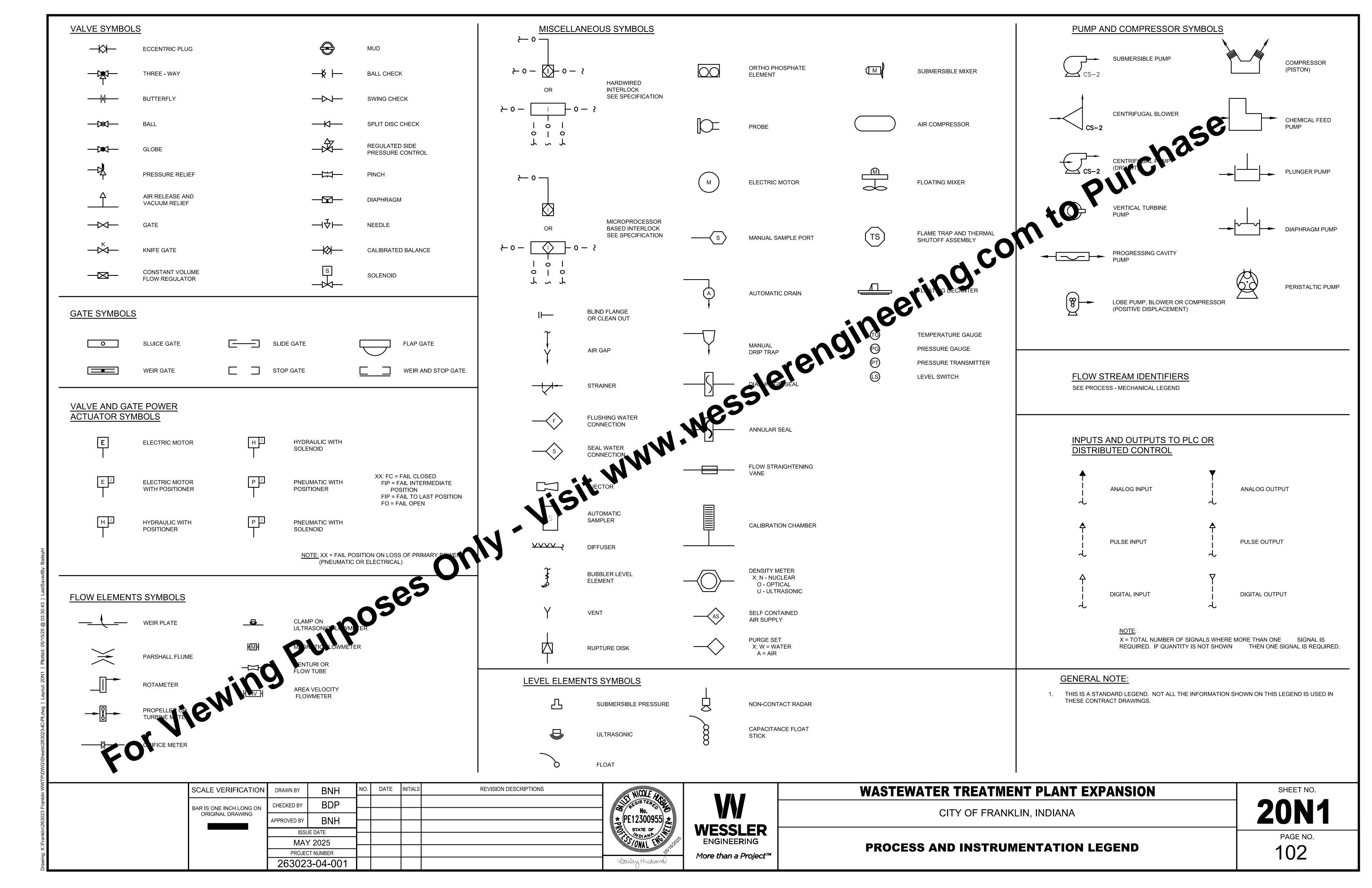


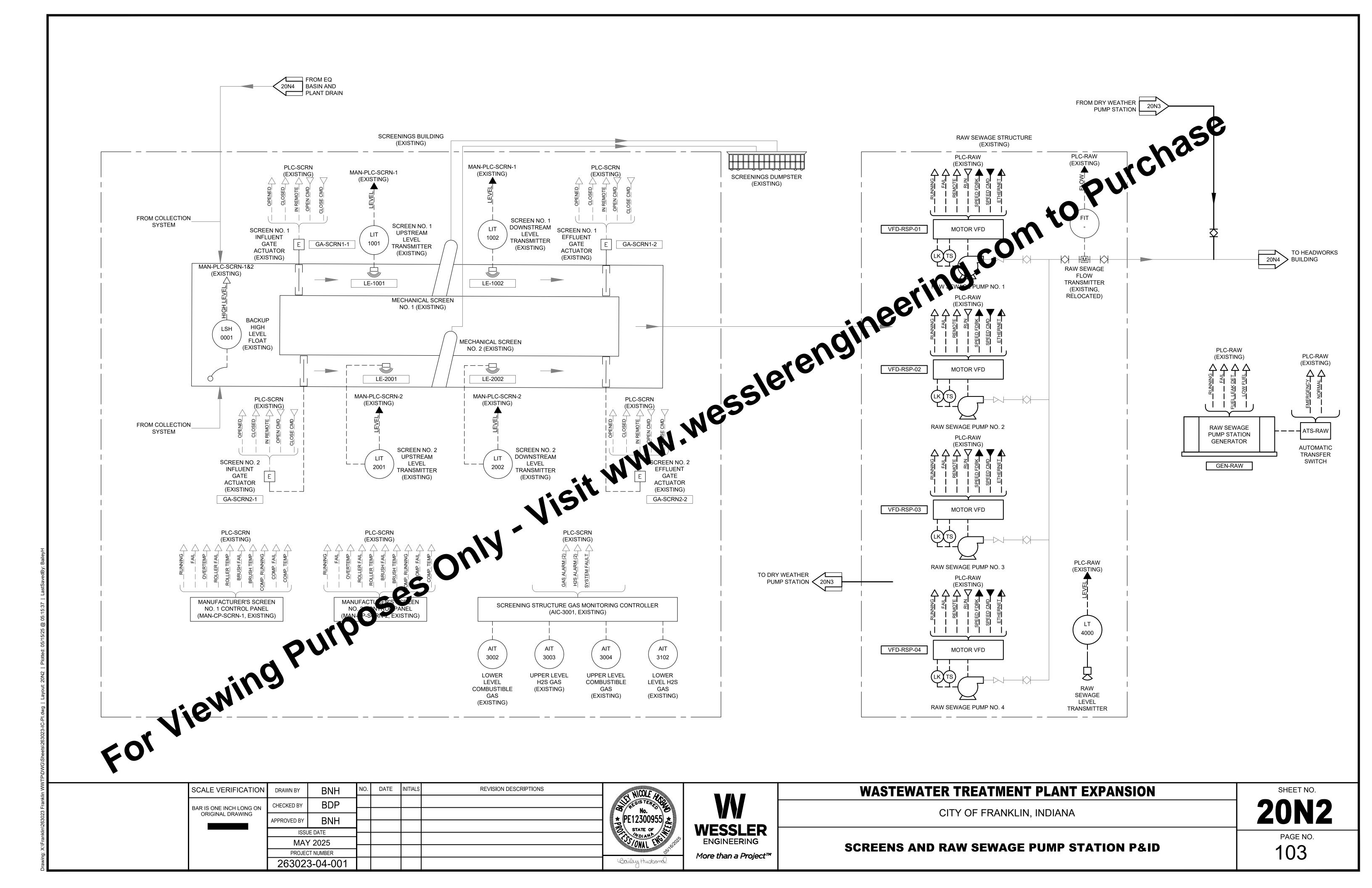


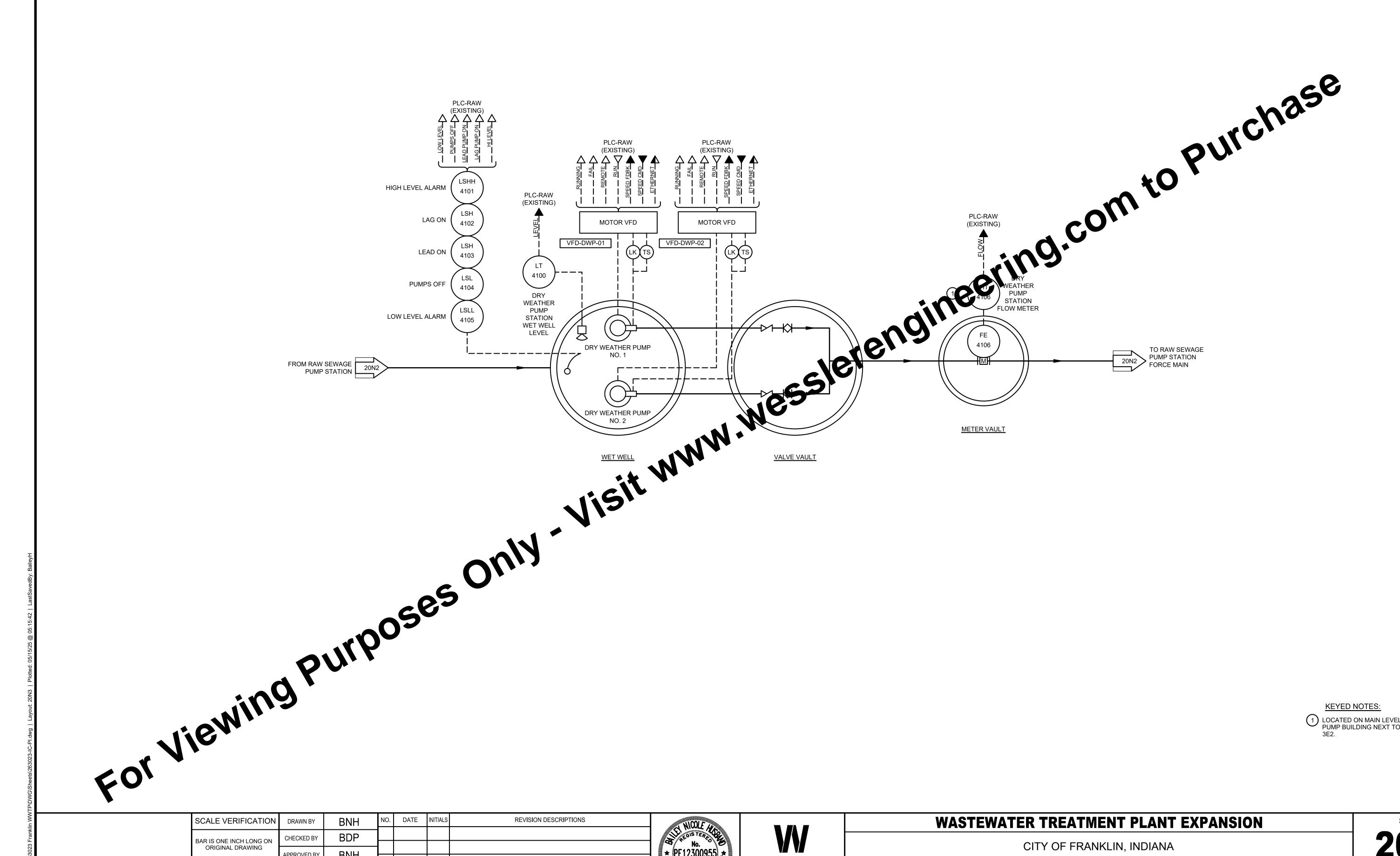












1) LOCATED ON MAIN LEVEL IN RAW SEWAGE PUMP BUILDING NEXT TO CP-RAW. REFERENCE 3E2.

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WASTEWATER TREATMENT PLANT EXPANSION
CITY OF FRANKLIN, INDIANA

SHEET NO.

**DRY WEATHER PUMP STATION P&ID** 

PAGE NO. 104

