

# VILLAGE OF MAEYSTOWN WASTEWATER TREATMENT FACILITY IMPROVEMENTS MONROE COUNTY, ILLINOIS

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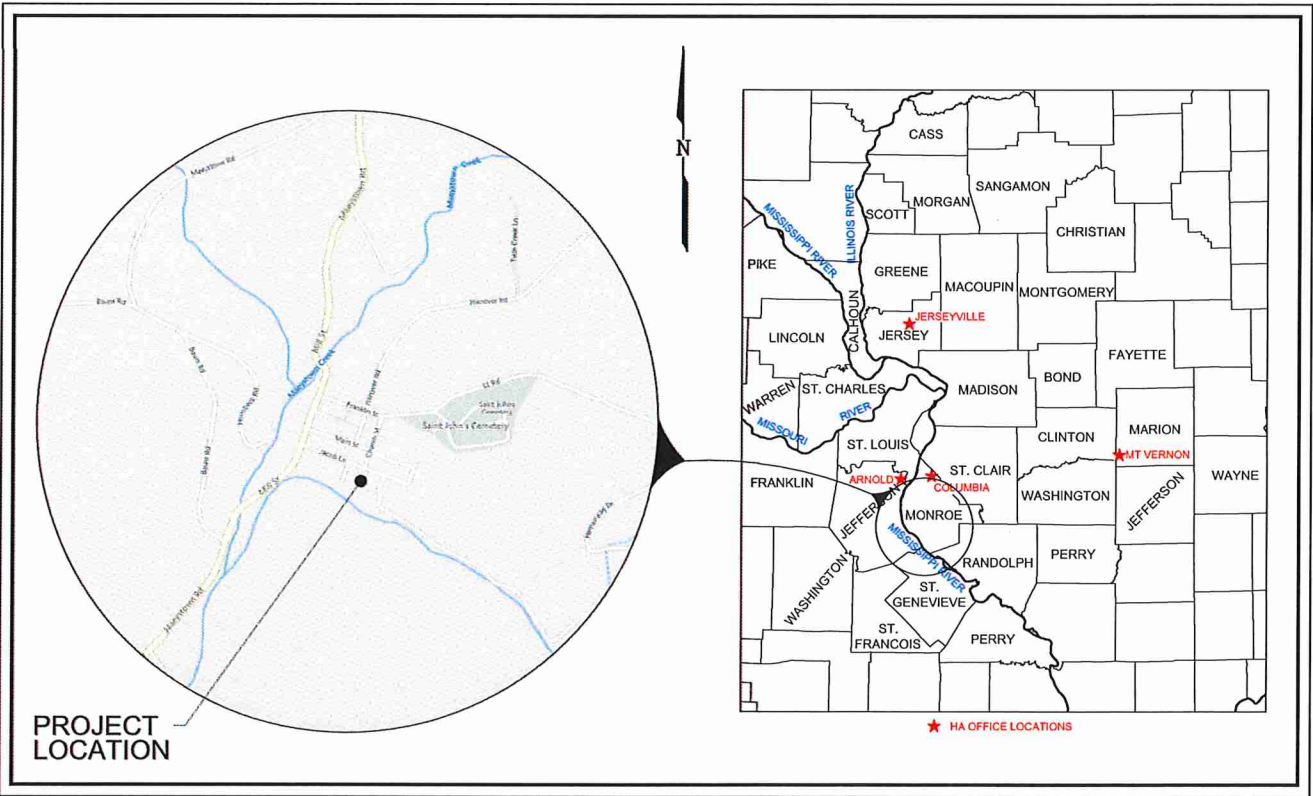
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AARON ESKER  
JIM KIRKWOOD  
CARMEN LEWIS  
SANDY TUTKA

CHAD RHUTASEL - OPERATOR

FACILITY NUMBER: \_\_\_\_\_  
IEPA PERMIT NUMBER: \_\_\_\_\_  
DCEO/CDBG GRANT NUMBER: \_\_\_\_\_

DATE: December 24, 2025

Sheet List Table	
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LOCATION MAP



Contractor to contact J.U.L.I.E. prior to any excavation or demolition for the location of any pipes, cables, lines, mains, etc. The contractor shall also coordinate any disconnection required with the various utility companies and/or governmental agencies serving the site.

Underground facilities, structures and utilities have been plotted from available surveys and records. Their locations must be considered to be approximate only. It is possible there may be others, the existence of which is not presently known or shown. It is the contractor's responsibility to determine their existence and exact location and to avoid damage thereto.

DIG LOG# \_\_\_\_\_



*Seth W. Elliott*  
SETH W. ELLIOTT  
REG. ILLINOIS P.E. #62788  
EXP. NOVEMBER 30, 2027



HENEGHAN ASSOCIATES  
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DESIGN FIRM NUMBERS: IL:184-002692, EXPIRES APRIL 30, 2027  
MO: 001310, EXPIRES DECEMBER 31, 2027

1004 STATE HWY. 16 JERSEYVILLE, ILLINOIS 62052 PHONE NO. (618) 498-6418 FAX NO. (618) 498-6410	800 BROADWAY, SUITE 3 MOUNT VERNON, ILLINOIS 62864 PHONE NO. (618) 533-6525 FAX NO. (618) 533-6652	310A VISION DRIVE COLUMBIA, ILLINOIS 62236 PHONE NO. (618) 281-8133 FAX NO. (618) 281-8290	1929 RICHARDSON ROAD ARNOLD, MISSOURI 63010 PHONE NO. (636) 464-3610 FAX NO. (636) 464-2059	2140 VADALABENE DRIVE MARYVILLE, ILLINOIS 62062 PHONE NO. (618) 498-6418 FAX NO. (618) 498-6410
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SYMBOLS

EXISTING	
	AXLE
	BOLT
	BRASS MONUMENT
	CLENCHED PIPE
	CONCRETE MONUMENT
	CUT "X"
	DRILL ROD
	IRON PIN/PIPE
	R.O.W. MONUMENT
	RAILROAD SPIKE
	STONE
	TRAVERSE NAIL
	PROPERTY LINE
	AIR CONDITIONING UNIT
	BENCHMARK
	BOLLARD
	BUSH
	CABLE TV PEDESTAL
	DEADMAN
	DOUBLE POST SIGN
	FENCE POST
	MAILBOX
	SOIL BORING NO. 1
	SIGN
	SIGNAL
	CLOSED LID INLET
	ROUND GRATE STORM
	SQUARE GRATE STORM
	STORM MANHOLE CLOSED LID
	STORM MANHOLE ROUND GRATE
	STORM MANHOLE SQUARE GRATE
	STORM INLET CLOSED LID
	STORM INLET ROUND GRATE
	STORM INLET SQUARE GRATE

ABBREVIATIONS

ADD	ADDITION	FB	FLAT BOTTOM
ATG	ADJUST TO GRADE	FL	FLOWLINE
AI	AREA INLET	GI	GRADED INLET
ASPH	ASPHALT	GRVL	GRAVEL
AVE	AVENUE	HDPE	HIGH-DENSITY POLYETHYLENE PIPE
BC	BACK OF CURB	HMA	HOT-MIX ASPHALT
BF	BASEMENT FLOOR	IN	INCHES
BM	BENCHMARK	INF	INFLOW
BK	BOOK	INV	INVERT
BLVD	BOULEVARD	LA	LANE
BLDG	BUILDING	LF	LINEAL FOOT
CL	CENTERLINE	MAX	MAXIMUM
CJ	CONSTRUCTION JOINT	MH	MANHOLE
CONC.	CONCRETE	MJ	MECHANICAL JOINT
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM
CF	CUBIC FEET	N/F	NOW AND FORMER
CY	CUBIC YARDS	NO	NUMBER
CI	CURB INLET	O/C	OIL AND CHIP
DCI	DOUBLE CURB INLET	OE	OVERHEAD ELECTRIC LINE
DR	DRIVE	PG	PAGE
DI	DUCTILE IRON	PVMT	PAVEMENT
ESMT	EASEMENT	POC	POINT OF COMMENCEMENT
EOA	EDGE ASPHALT	POB	POINT OF BEGINNING
EOC	EDGE OF CONCRETE	PC	POINT OF CURVATURE
ELEV./EL.	ELEVATION	PI	POINT OF INTERSECTION
EXIST./EX.	EXISTING	PROP./PR.	PROPOSED
EJ	EXPANSION JOINT	PT	POINT OF TANGENT
FO	FIBEROPTIC LINE	PVC	POLYVINYL CHLORIDE
FT	FEET	PE	PRIVATE ENTRANCE
F&L	FRAME AND LID	PL	PROPERTY LINE
FES	FLARED END SECTION	RR	RAILROAD

SYMBOLS

EXISTING	
	FLOW ARROW
	SANITARY MANHOLE
	CLEANOUT
	FLARED END SECTION
	TREE (DECIDUOUS)
	TREE (CONIFEROUS)
	STUMP
	STUMP (TBR)
	FIRE HYDRANT
	WATER VALVE
	WATER METER
	MONITORING WELL
	SPRINKLER
	WATER SPIGOT
	ELECTRIC PEDESTAL
	ELECTRIC TRANSFORMER
	LIGHT POLE/STANDARD
	POWER POLE
	GUY WIRE
	ELECTRIC METER
	ELECTRIC MANHOLE
	VAULT
	TELEPHONE PEDESTAL
	TELEPHONE MANHOLE
	TELEPHONE POLE
	FIBEROPTICS VAULT
	FIBEROPTICS WARNING SIGN
	GAS METER

ABBREVIATIONS

FB	FLAT BOTTOM
FL	FLOWLINE
GI	GRADED INLET
GRVL	GRAVEL
HDPE	HIGH-DENSITY POLYETHYLENE PIPE
HMA	HOT-MIX ASPHALT
IN	INCHES
INF	INFLOW
INV	INVERT
LA	LANE
LF	LINEAL FOOT
MAX	MAXIMUM
MH	MANHOLE
MJ	MECHANICAL JOINT
MIN	MINIMUM
N/F	NOW AND FORMER
NO	NUMBER
O/C	OIL AND CHIP
OE	OVERHEAD ELECTRIC LINE
PG	PAGE
PVMT	PAVEMENT
POC	POINT OF COMMENCEMENT
POB	POINT OF BEGINNING
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PROP./PR.	PROPOSED
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE
PE	PRIVATE ENTRANCE
PL	PROPERTY LINE
RR	RAILROAD

SYMBOLS

EXISTING	
	GAS VALVE
	RAILROAD CROSS BUCK (IDOT)
	RAILROAD FLASHING SIGNAL (IDOT)
	RAILROAD LIGHTS AND ARM
	RAILROAD LIGHTS
	RAILROAD MASTING ARM (IDOT)
	RAILROAD SIGNAL W/MASTING ARM (IDOT)
	BLOWOFF
	INLET PROTECTION

ABBREVIATIONS

RCA	REINFORCED CONCRETE ELLIPTICAL ARCH PIPE
RCE	REINFORCED CONCRETE ELLIPTICAL PIPE
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
SAN	SANITARY
SF	SQUARE FEET
SY	SQUARE YARDS
STA	STATION
SWPP	STORM WATER POLLUTION PREVENTION
TBM	TEMPORARY BENCHMARK
TF	TOP OF FOUNDATION
TYP	TYPICAL
TOC	TOP OF CURB
TOA	TOP OF ASPHALT
TBA	TO BE ABANDONED
TBA&F	TO BE ABANDONED AND FILLED
TBR	TO BE REMOVED
TBR&R	TO BE REMOVED AND REPLACED
UIP	USE IN PLACE
VCP	VITREOUS CLAY PIPE

LINETYPES

EXISTING		PROPOSED
	CENTERLINE	
	CONCRETE ROADS & DRIVES	
	CONTOUR LINE	
	CULVERT (SIZE & MATERIAL)	
	EASEMENT	
	ELECTRIC	
	OVERHEAD ELECTRIC	
	ASPHALT ROADS & DRIVES	
	FENCE	
	DITCH FLOWLINE	
	FLAG (GUTTER)	
	GAS	
	GRAVEL ROADS & DRIVES	
	GUARD RAIL	
	RIGHT OF WAY	
	SIDEWALK	
	SANITARY SEWER MAIN	
	SANITARY SEWER LATERAL	
	SANITARY FORCEMAIN	
	SANITARY SERVICE	
	EXISTING PROPERTY LINE	
	SECTION LINE	
	SECTION LINE (QUARTER)	
	SETBACK	
	GRADING LIMITS	
	EASEMENTS	
	SILT FENCE	
	STORM SEWER	
	TELEPHONE	
	OVERHEAD TELEPHONE	
	FIBEROPTIC LINE	
	TREE LINE	
	WATER MAIN	
	WATER SERVICE	
	12" WATER MAIN	
	10" WATER MAIN	
	8" WATER MAIN	
	6" WATER MAIN	
	4" WATER MAIN	
	3" WATER MAIN	
	2" WATER MAIN	

HATCHING

EXISTING		PROPOSED
	CONCRETE	
	RIPRAP	
	HMA PAVMENT	

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P: (636) 464-3610

2140 VADALABENE DRIVE  
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P: (888) 291-7615

REVISIONS

DATE

NO

LEGEND

WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS

VILLAGE OF MAEYSTOWN  
MONROE COUNTY, ILLINOIS

DRAWN BY: CBK  
CHECKED BY: EYF  
APPROVED BY: SWE

HORIZONTAL SCALE:  
N/A

VERTICAL SCALE:  
N/A

PROJECT NO.  
40038-500

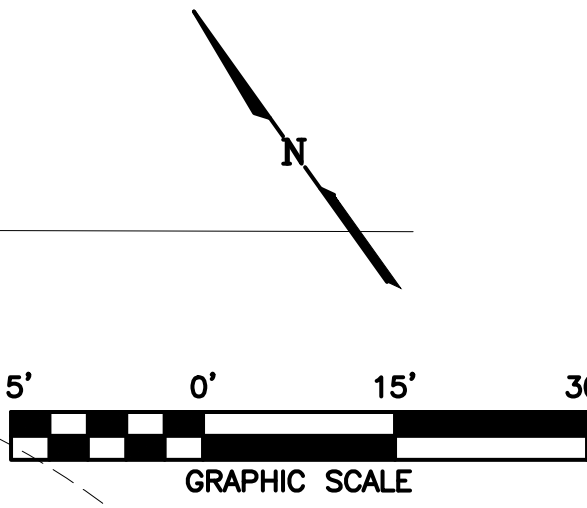
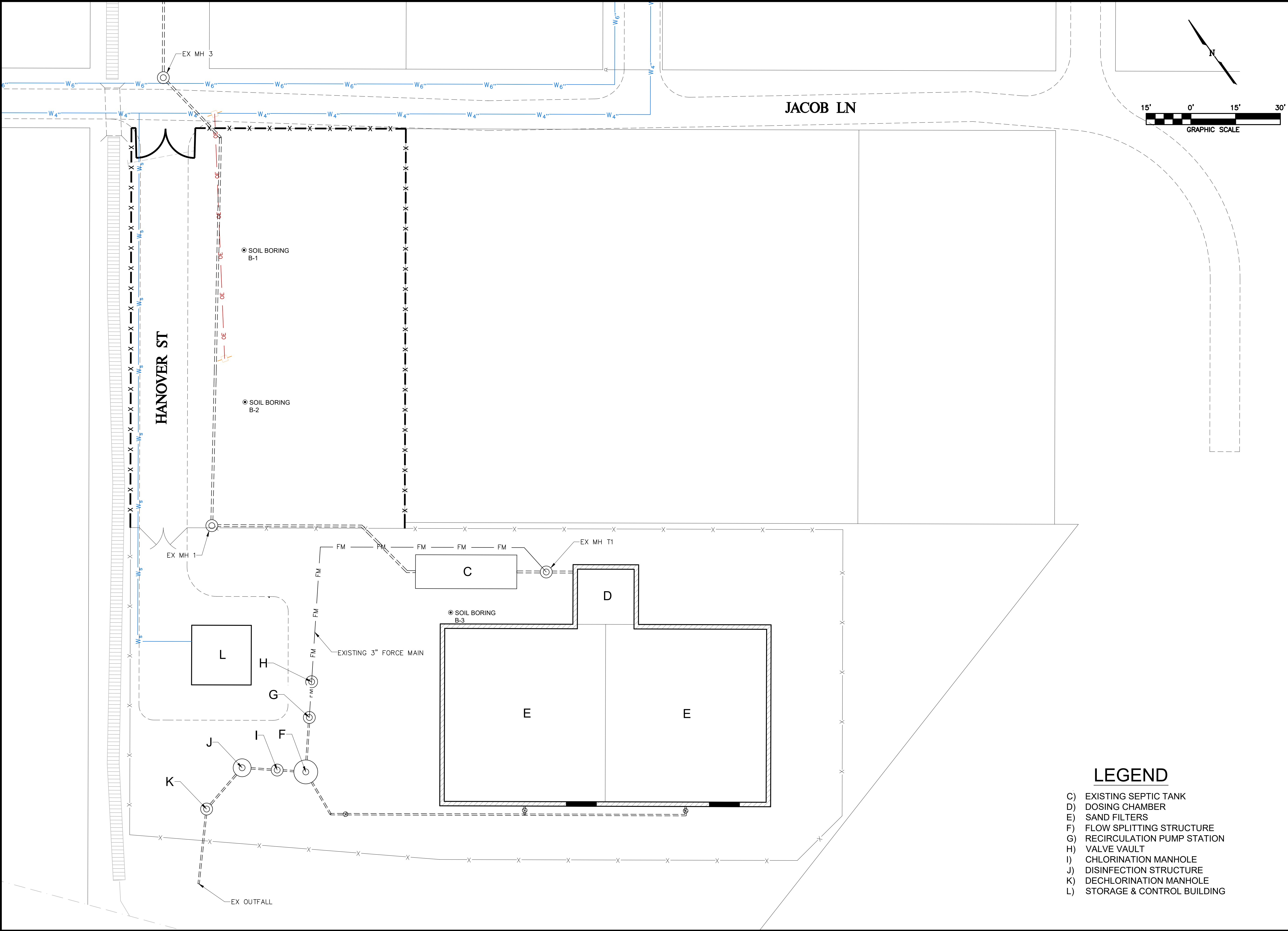
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2 OF 15 SHEETS



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- LEGEND**
- C) EXISTING SEPTIC TANK
  - D) DOSING CHAMBER
  - E) SAND FILTERS
  - F) FLOW SPLITTING STRUCTURE
  - G) RECIRCULATION PUMP STATION
  - H) VALVE VAULT
  - I) CHLORINATION MANHOLE
  - J) DISINFECTION STRUCTURE
  - K) DECHLORINATION MANHOLE
  - L) STORAGE & CONTROL BUILDING



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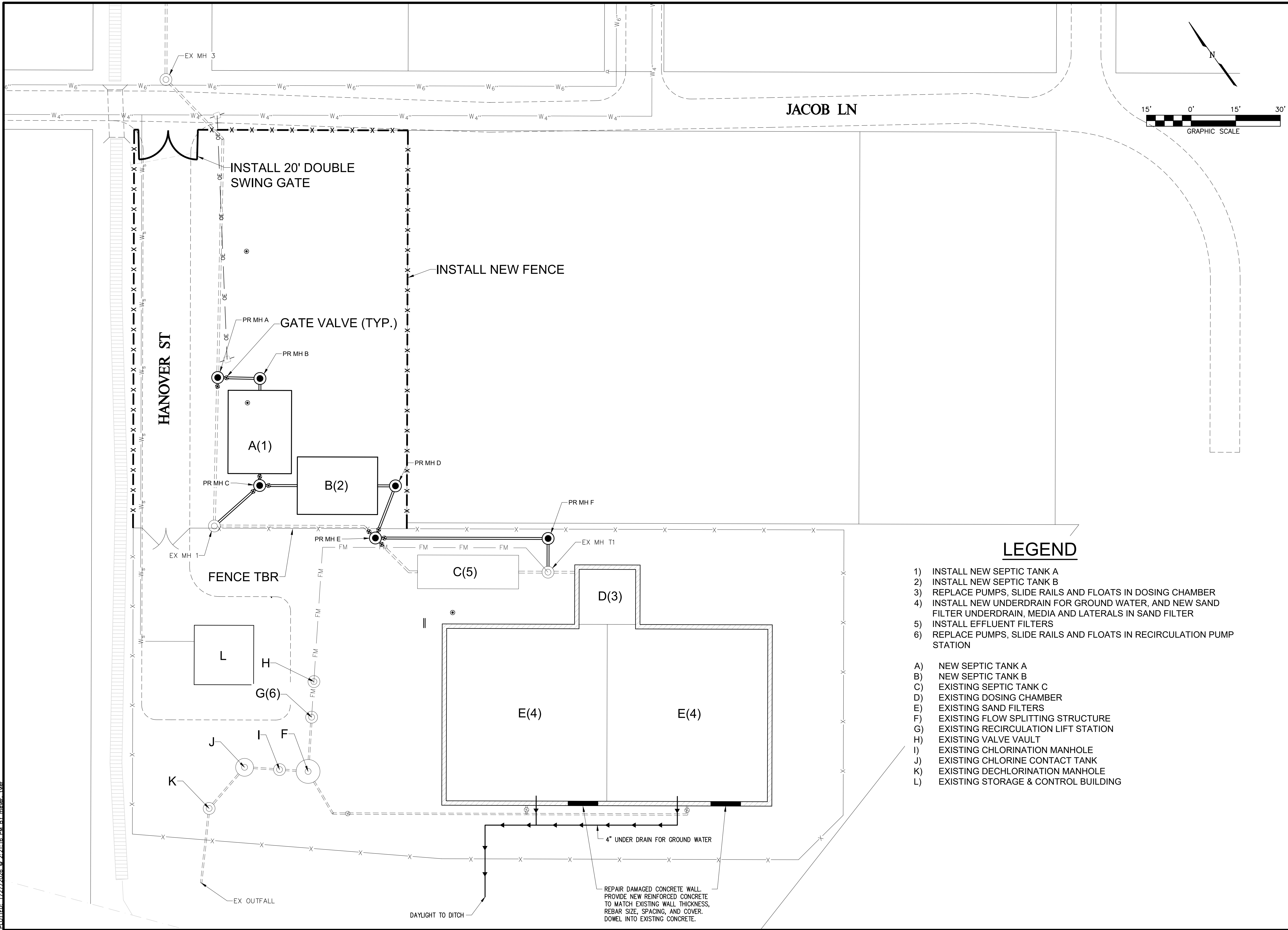
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EXISTING SITE PLAN	VILLAGE OF MAEYSTOWN MONROE COUNTY, ILLINOIS
WASTEWATER TREATMENT FACILITY IMPROVEMENTS	


DRAWN BY:	CBK
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APPROVED BY:	SWE
HORIZONTAL SCALE:	1"=15'
VERTICAL SCALE:	N/A
PROJECT NO.	40038-500
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3 OF 15 SHEETS	

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## LEGEND

- 1) INSTALL NEW SEPTIC TANK A
  - 2) INSTALL NEW SEPTIC TANK B
  - 3) REPLACE PUMPS, SLIDE RAILS AND FLOATS IN DOSING CHAMBER
  - 4) INSTALL NEW UNDERDRAIN FOR GROUND WATER, AND NEW SAND FILTER UNDERDRAIN, MEDIA AND LATERALS IN SAND FILTER
  - 5) INSTALL EFFLUENT FILTERS
  - 6) REPLACE PUMPS, SLIDE RAILS AND FLOATS IN RECIRCULATION PUMP STATION
- 
- A) NEW SEPTIC TANK A
  - B) NEW SEPTIC TANK B
  - C) EXISTING SEPTIC TANK C
  - D) EXISTING DOSING CHAMBER
  - E) EXISTING SAND FILTERS
  - F) EXISTING FLOW SPLITTING STRUCTURE
  - G) EXISTING RECIRCULATION LIFT STATION
  - H) EXISTING VALVE VAULT
  - I) EXISTING CHLORINATION MANHOLE
  - J) EXISTING CHLORINE CONTACT TANK
  - K) EXISTING DECHLORINATION MANHOLE
  - L) EXISTING STORAGE & CONTROL BUILDING

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**PROPOSED SITE PLAN**  
**WASTEWATER TREATMENT FACILITY IMPROVEMENTS**

VILLAGE OF MAEYSTOWN  
MONROE COUNTY, ILLINOIS

DRAWN BY: CBK  
CHECKED BY: EYF  
APPROVED BY: SWE

HORIZONTAL SCALE:  
1"=15'

VERTICAL SCALE:  
N/A

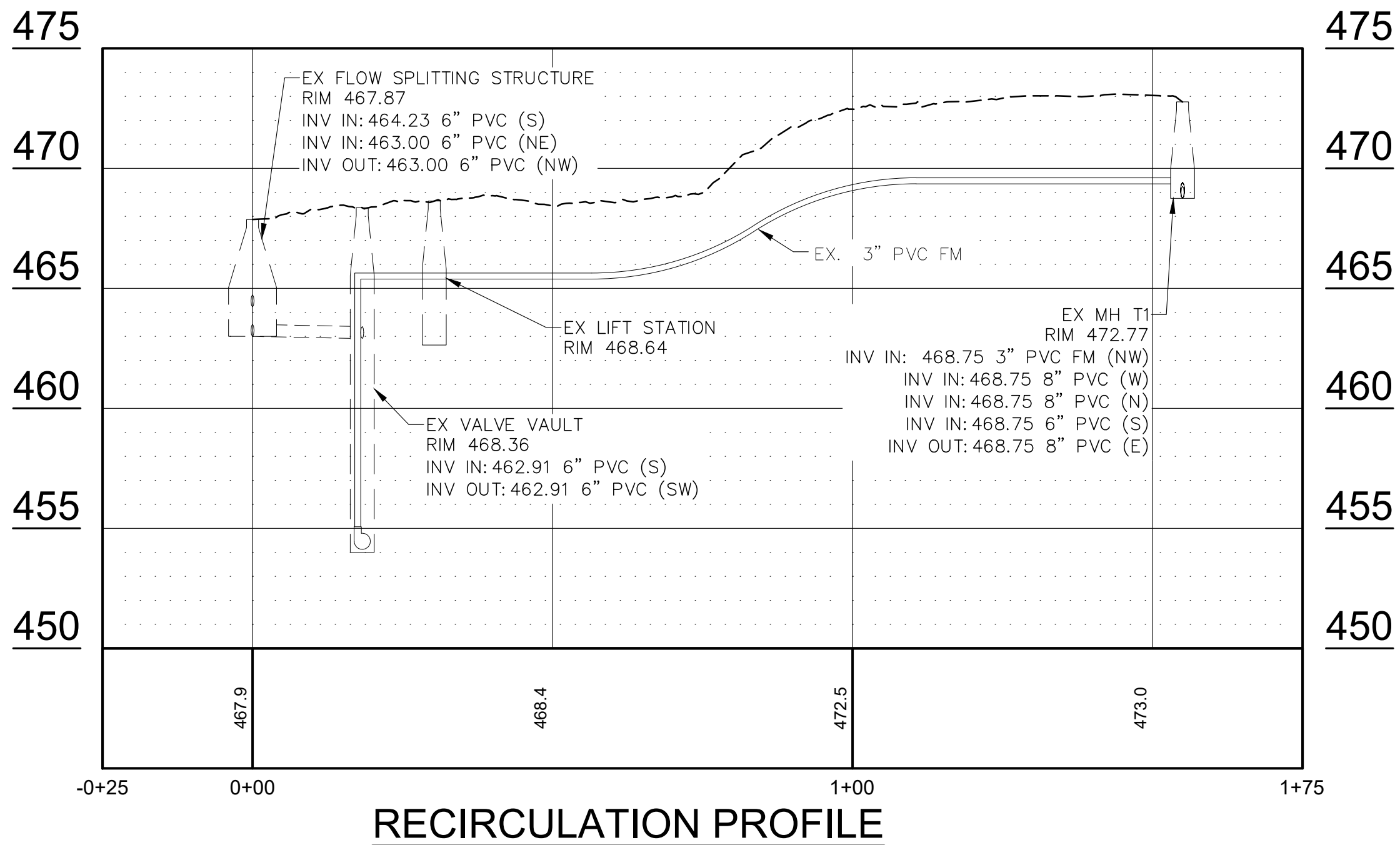
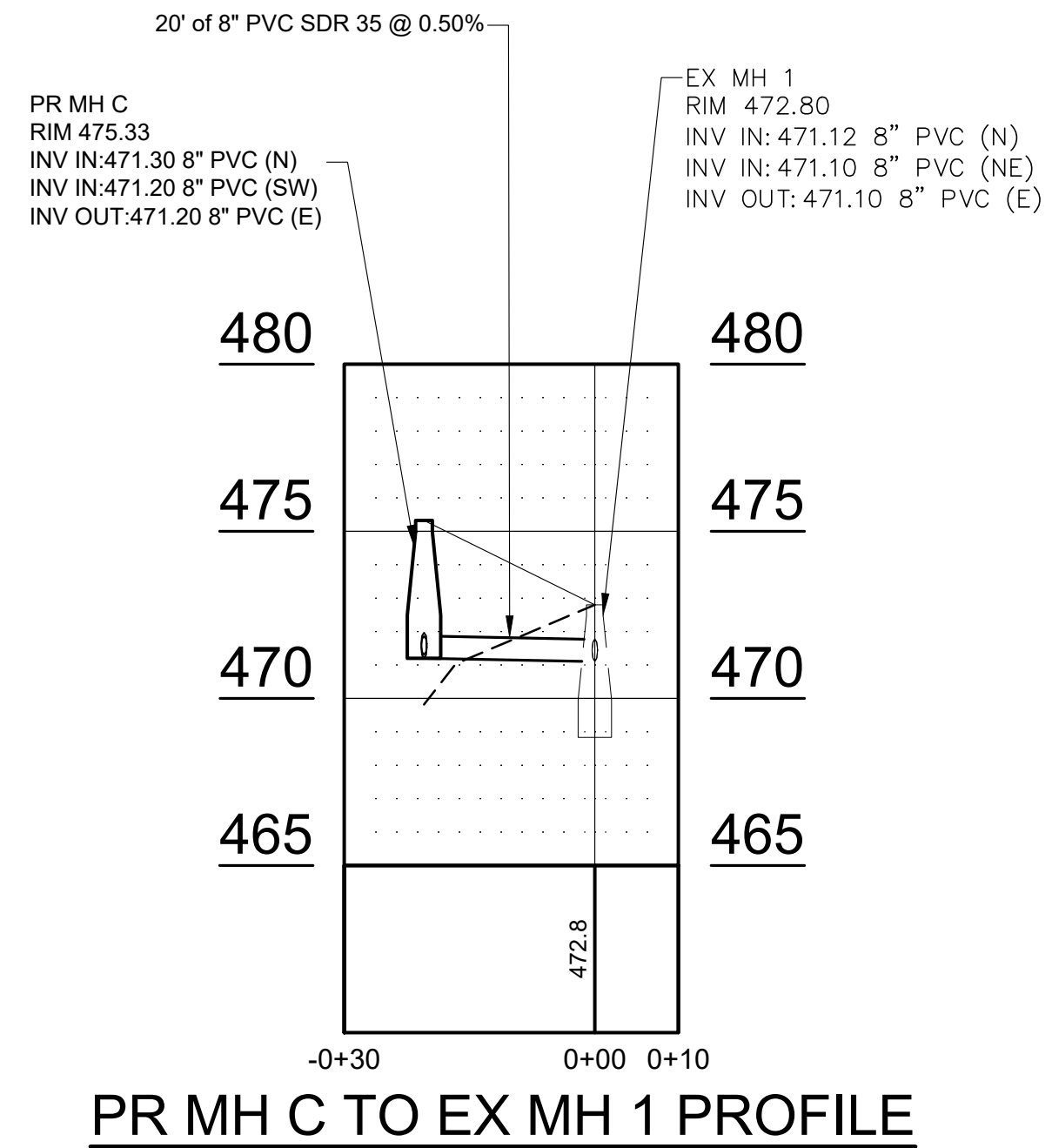
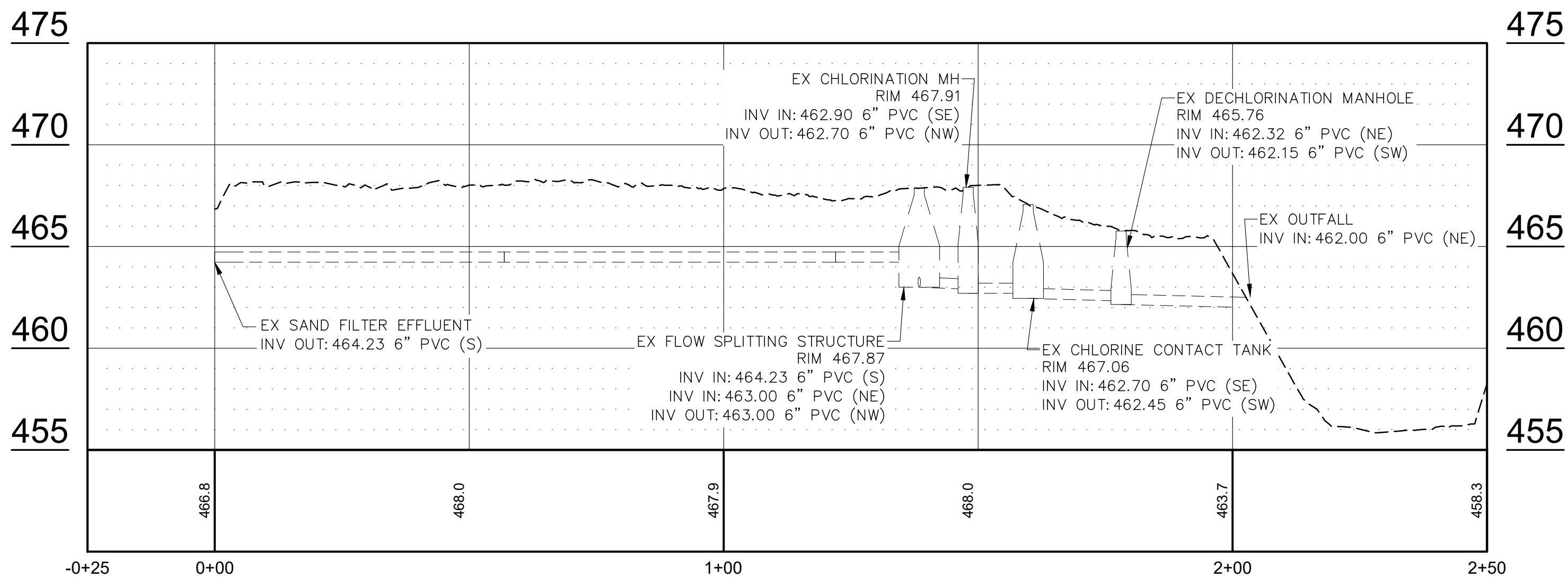
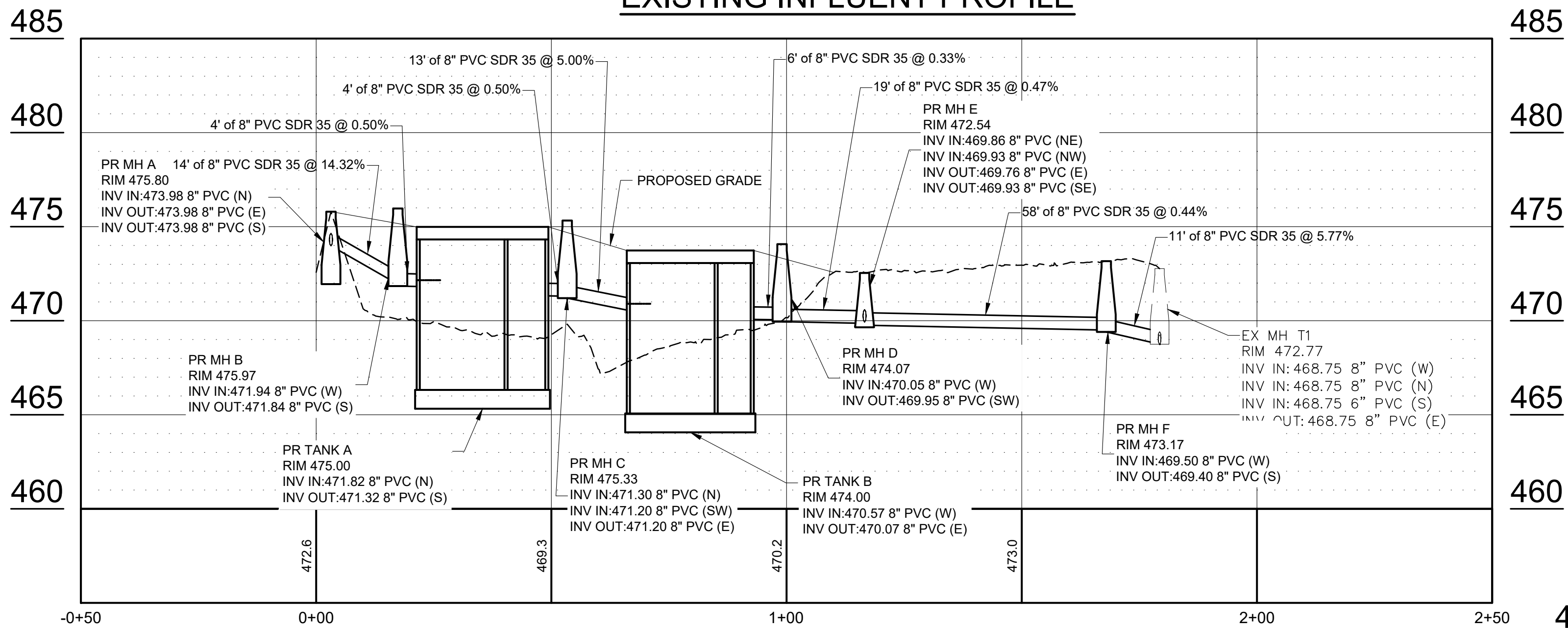
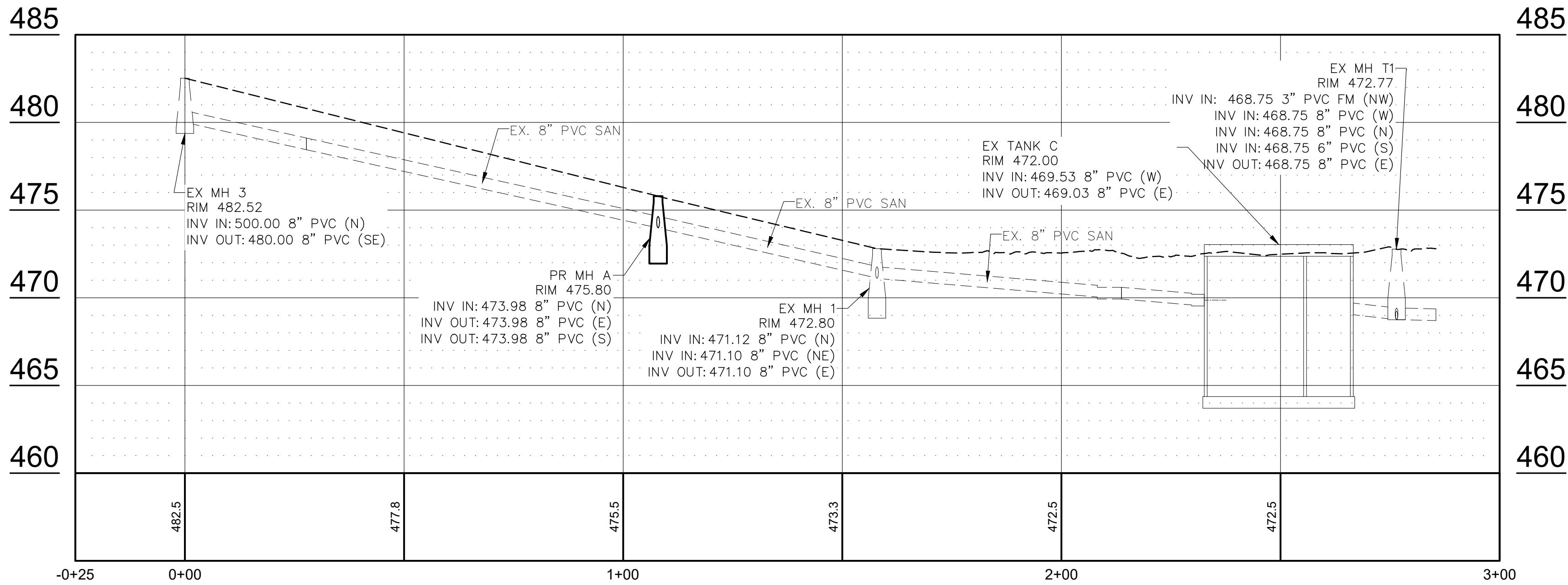
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REVISIONS

DATE

NO.

HYDRAULIC PROFILE

WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS

VILLAGE OF MAEYSTOWN  
MONROE COUNTY, ILLINOIS

DRAWN BY: CBK  
CHECKED BY: EYF  
APPROVED BY: SWE

HORIZONTAL SCALE:

AS NOTED

VERTICAL SCALE:

N/A

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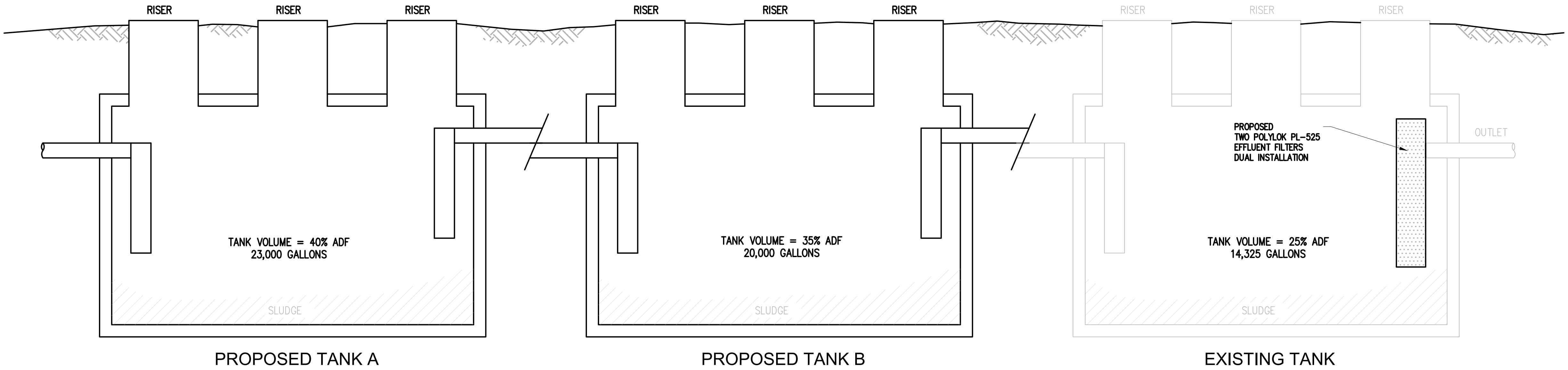
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5 OF 15 SHEETS

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COMMUNITY SEPTIC TANK DETAIL  
SCALE: NONE



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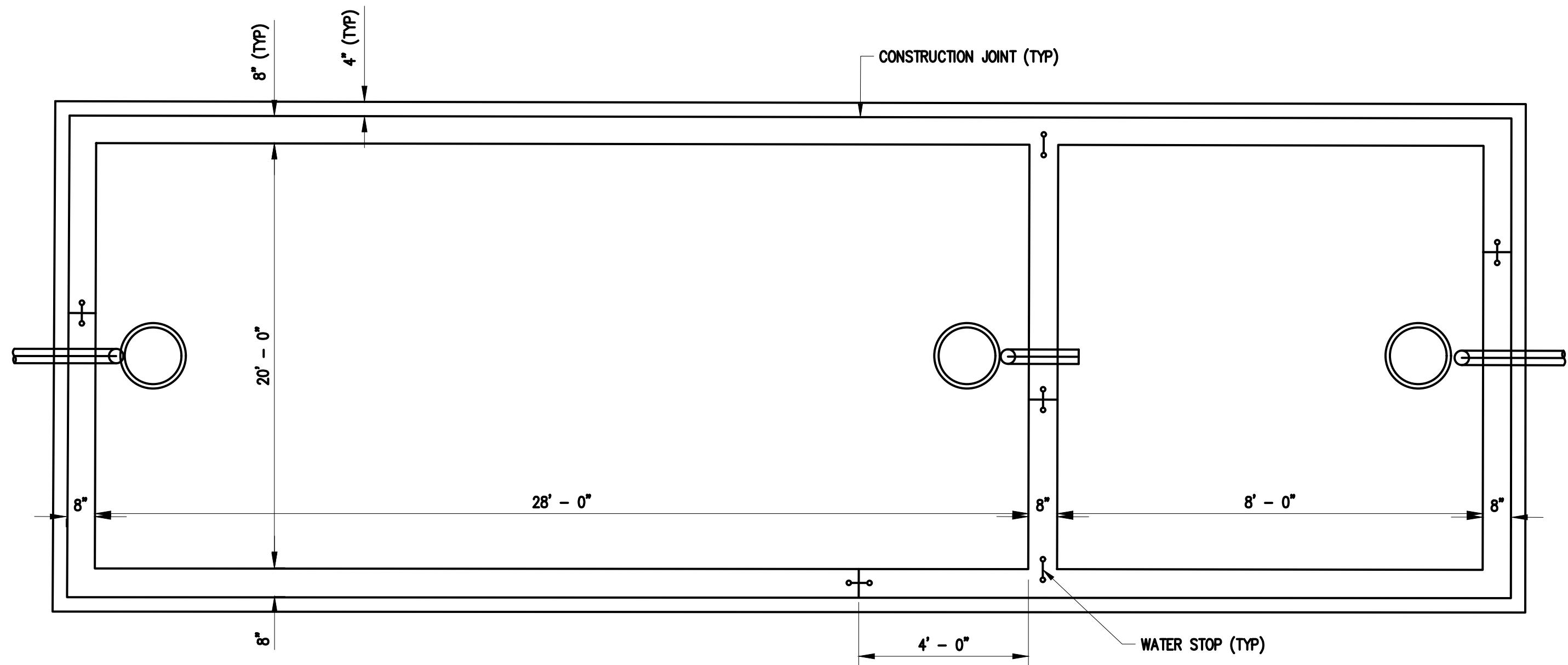
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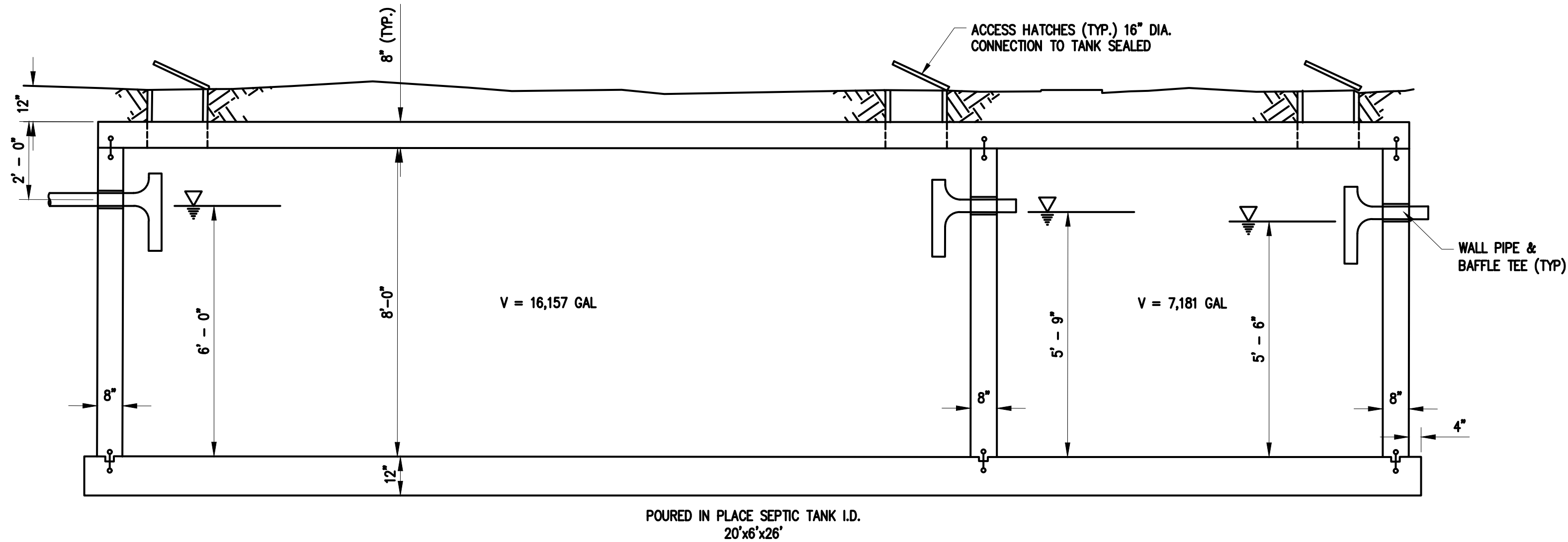
COMMUNITY SEPTIC SYSTEM WASTEWATER TREATMENT FACILITY IMPROVEMENTS	VILLAGE OF MAEYSTOWN MONROE COUNTY, ILLINOIS
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DRAWN BY: CBK CHECKED BY: EYF APPROVED BY: SWE
HORIZONTAL SCALE: AS NOTED
VERTICAL SCALE: N/A
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6 OF 15 SHEETS

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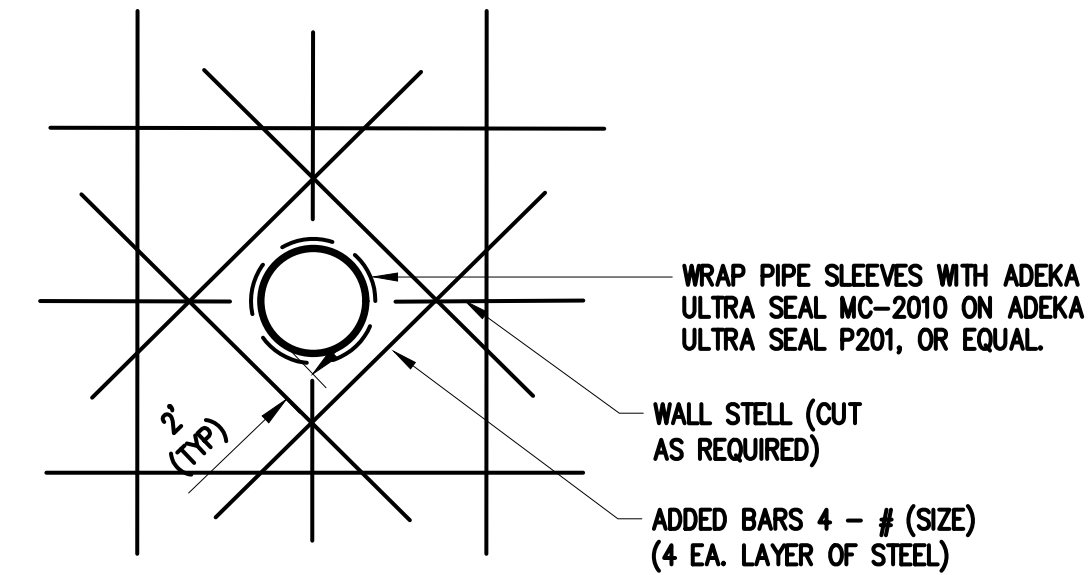


SEPTIC TANK A - PLAN  
SCALE: NONE



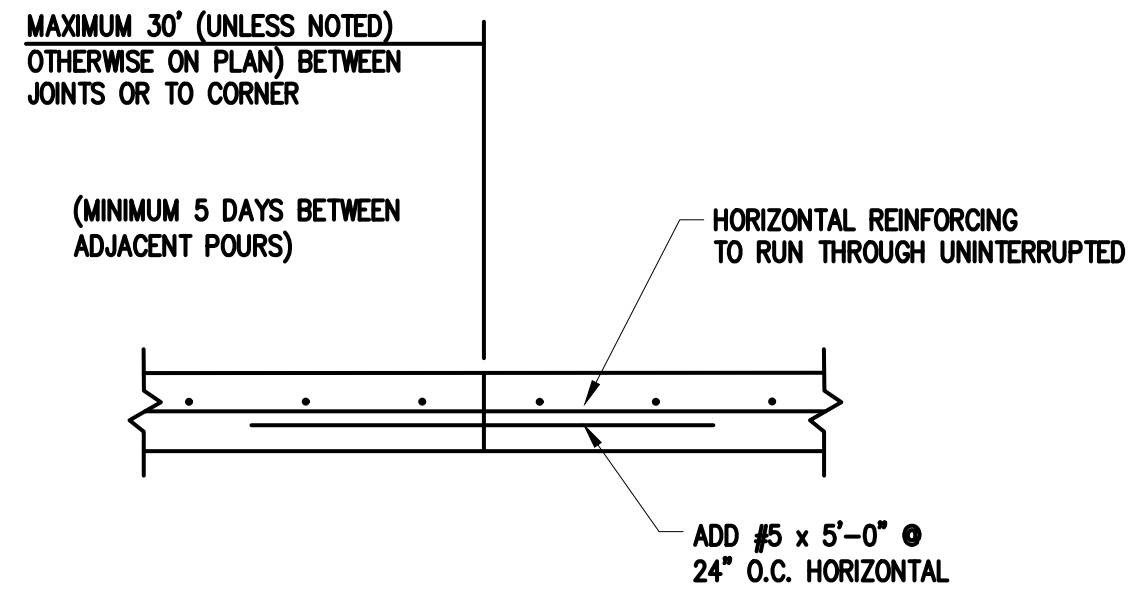
NOTE: INLET BAFFLE TEES SHALL  
EXTEND AT LEAST 6 INCHES  
BELOW THE SURFACE OF THE  
LIQUID AND OUTLET BAFFLE  
TEES SHALL EXTEND TO A DEPTH  
OF 40% OF THE LIQUID DEPTH.

SEPTIC TANK A - SECTION  
SCALE: NONE

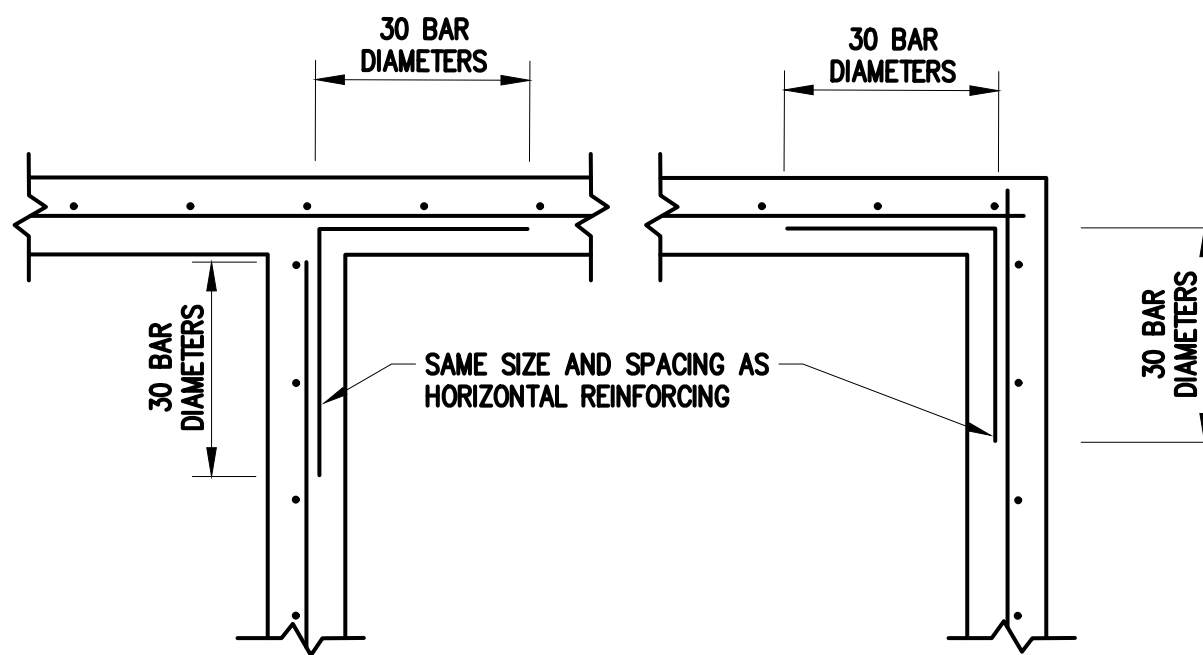


PIPE SIZE	BAR SIZE	BAR LENGTH
4" - 8" Ø	#4	2' - 6"
8" - 12" Ø	#5	4' - 6"
12" - 18" Ø	#5	6' - 6"

OPENING IN CONCRETE WALL (SLAB)  
SCALE: NONE



WALL CONSTRUCTION JOINT  
SCALE: NONE



WALL REINFORCING DETAIL  
SCALE: NONE

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SEPTIC TANK A

WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS

VILLAGE OF MAEYSTOWN  
MONROE COUNTY, ILLINOIS

DRAWN BY: CBK  
CHECKED BY: EYF  
APPROVED BY: SWE

HORIZONTAL SCALE:  
AS NOTED

VERTICAL SCALE:  
N/A

PROJECT NO.  
40038-500

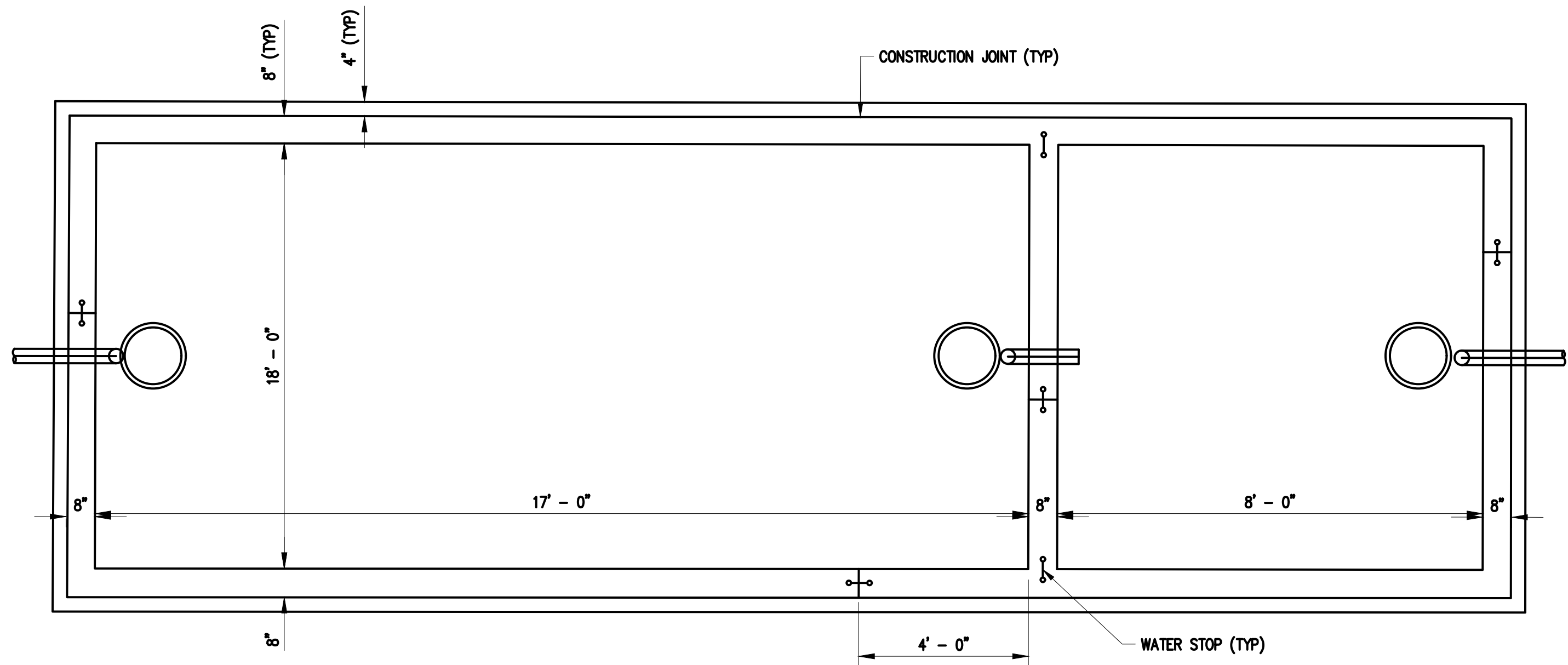
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12/24/25

SHEET NO.  
7

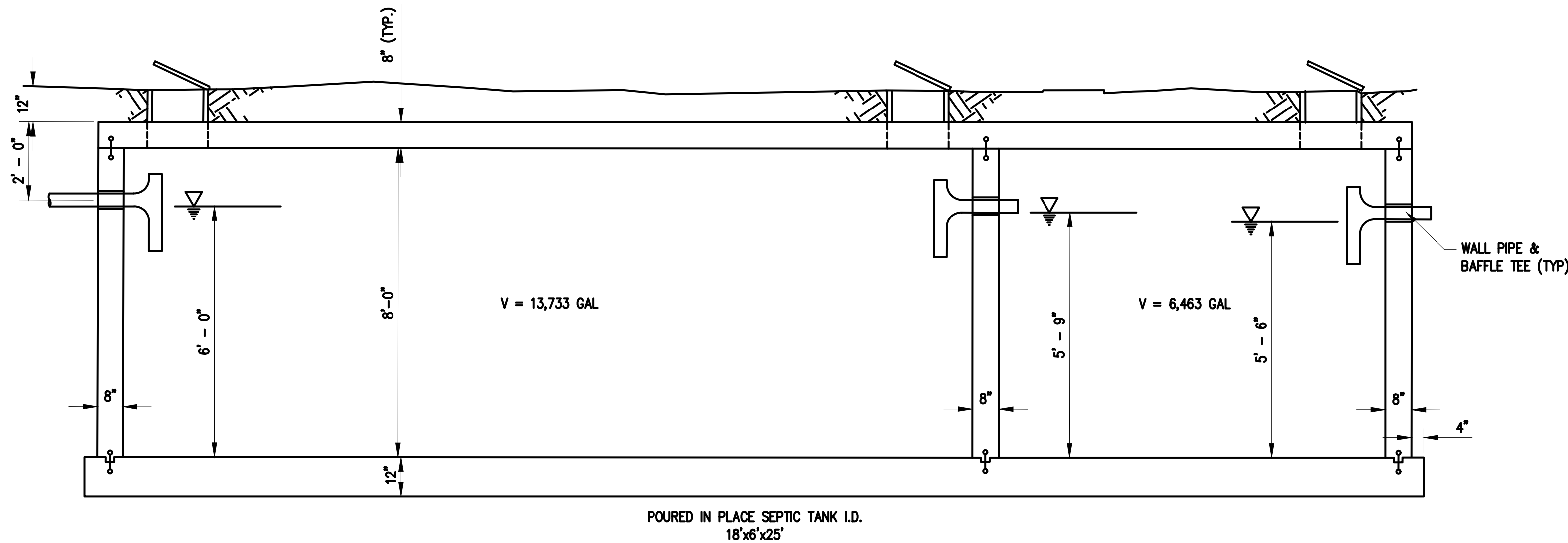
7 OF 15 SHEETS



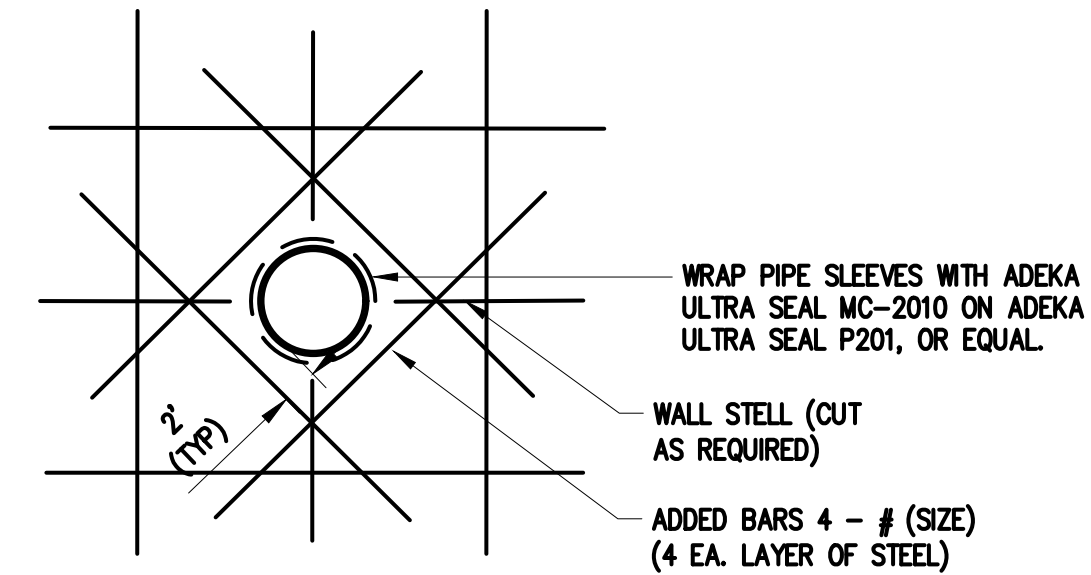
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SEPTIC TANK B - PLAN  
SCALE: NONE

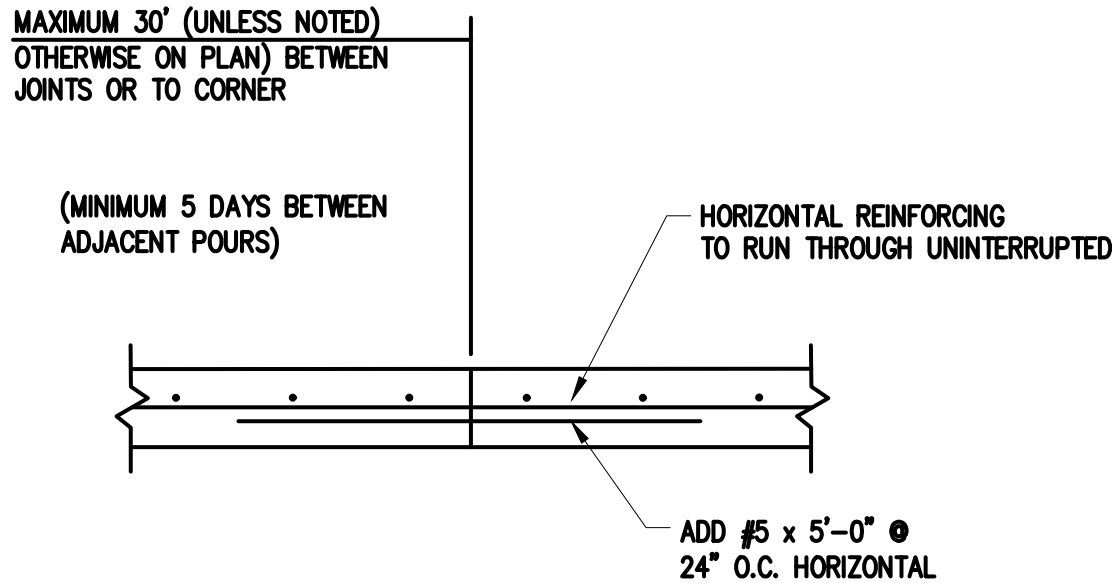


SEPTIC TANK B - SECTION  
SCALE: NONE

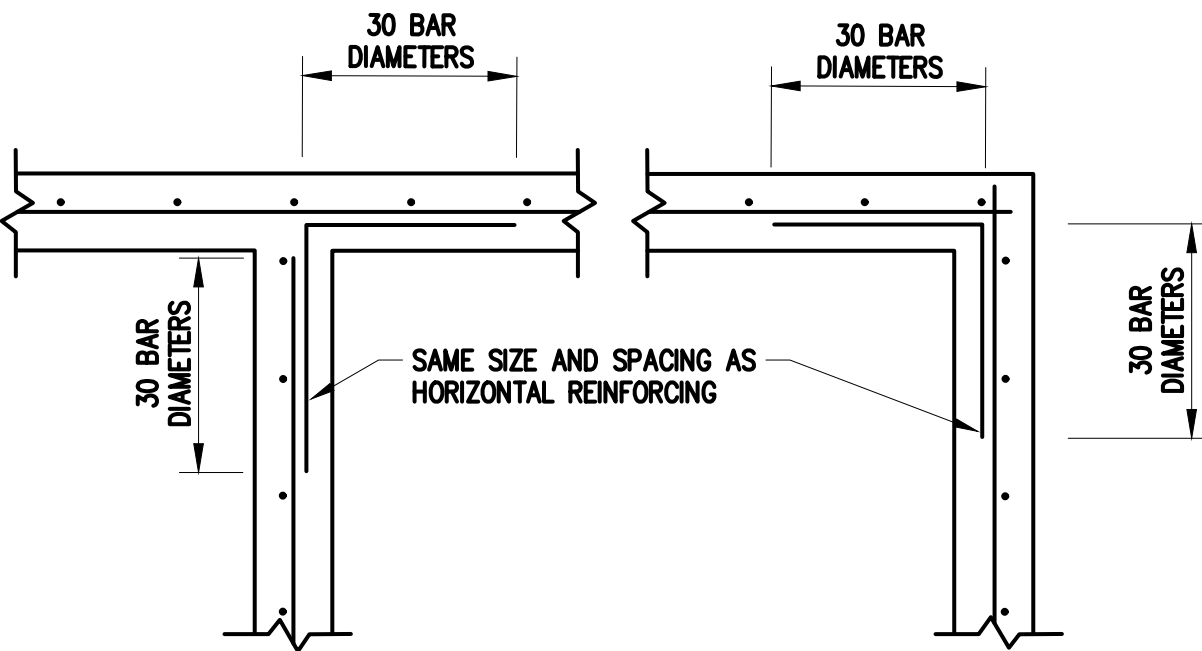


PIPE SIZE	BAR SIZE	BAR LENGTH
4" - 8" Ø	#4	2' - 6"
8" - 12" Ø	#5	4' - 6"
12" - 18" Ø	#5	6' - 6"

OPENING IN CONCRETE WALL (SLAB)  
SCALE: NONE



WALL CONSTRUCTION JOINT  
SCALE: NONE



WALL REINFORCING DETAIL  
SCALE: NONE

NOTE:  
EFFLUENT FILTER WILL BE INSTALLED ON  
EXISTING SEPTIC TANK C BEFORE DISCHARGING  
INTO THE DOSING CHAMBER

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ASSOCIATES



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REVISIONS

DATE

NO.


SEPTIC TANK B

WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS

VILLAGE OF MAEYSTOWN  
MONROE COUNTY, ILLINOIS

DRAWN BY: CBK  
CHECKED BY: EYF  
APPROVED BY: SWE

HORIZONTAL SCALE:  
AS NOTED

VERTICAL SCALE:  
N/A

PROJECT NO.  
40038-500

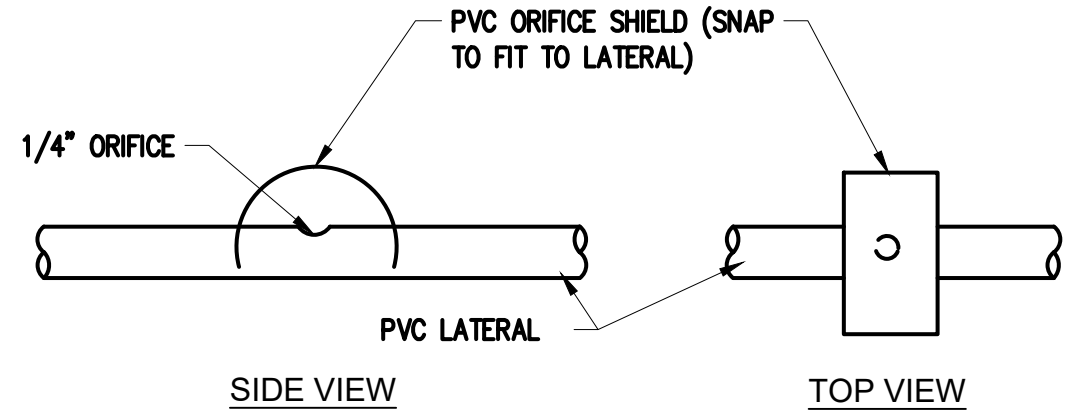
DATE:  
12/24/25

SHEET NO.  
8

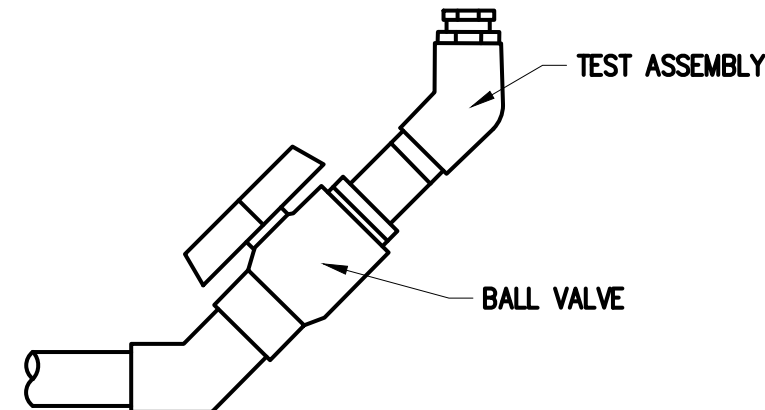
8 OF 15 SHEETS



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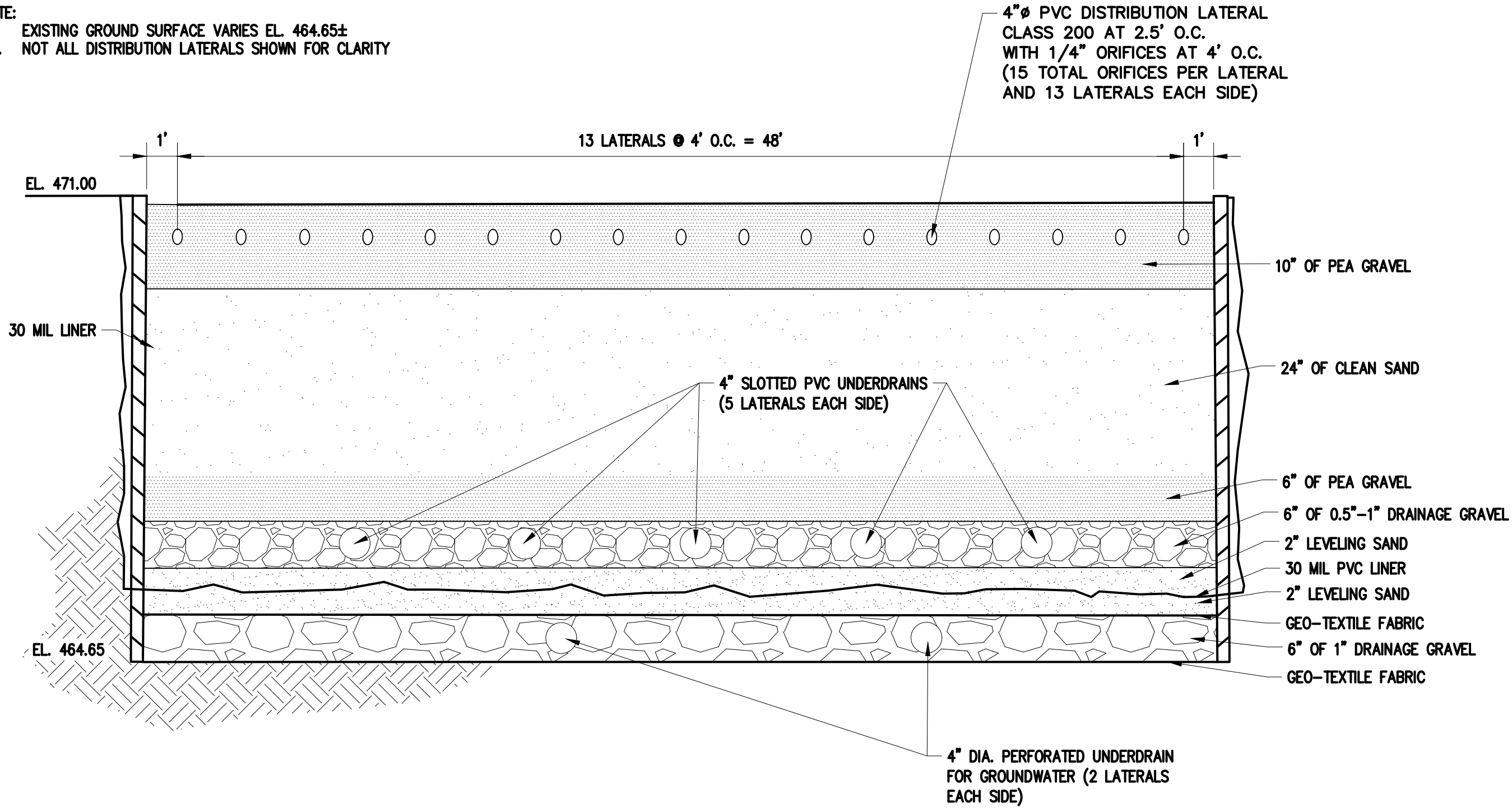


ORIFICE SHIELD DETAIL  
SCALE: NONE

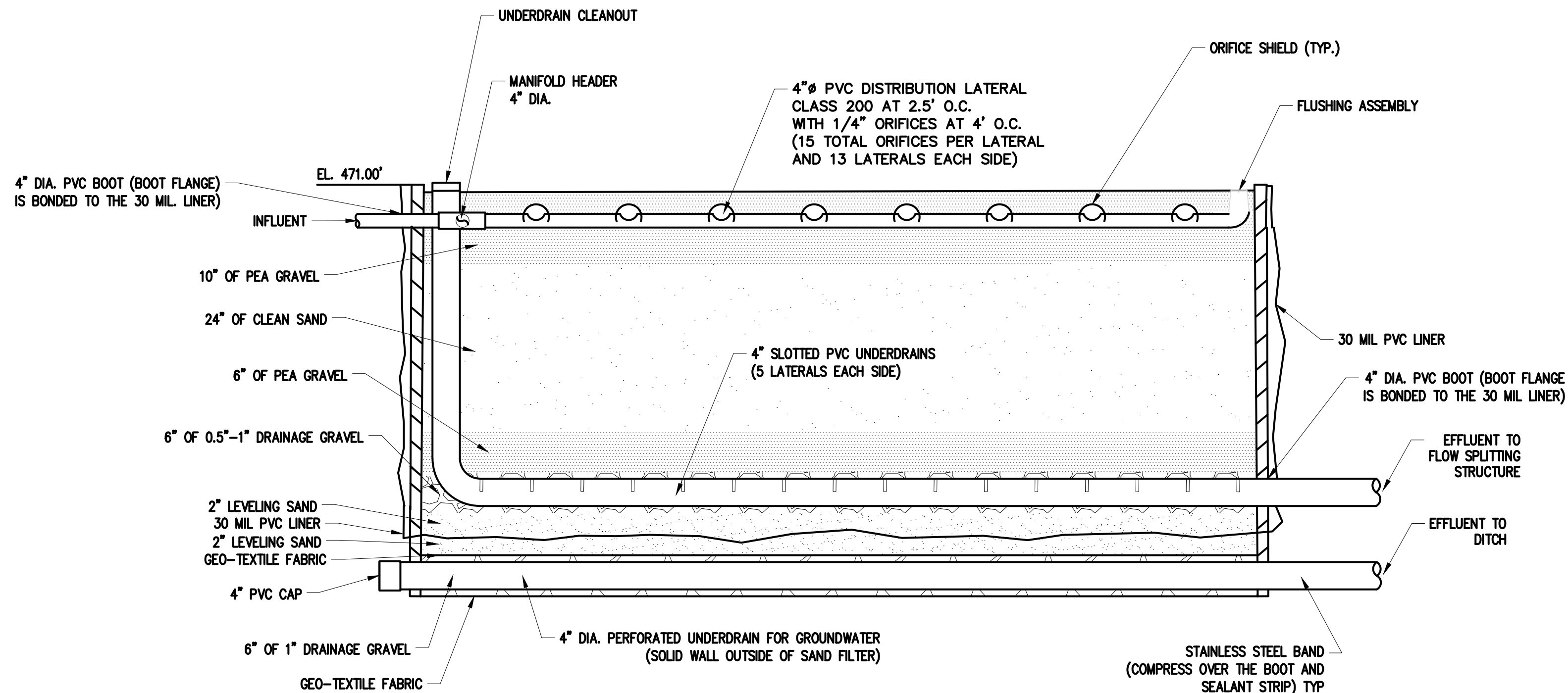


FLUSHING VALVE DETAIL  
SCALE: NONE

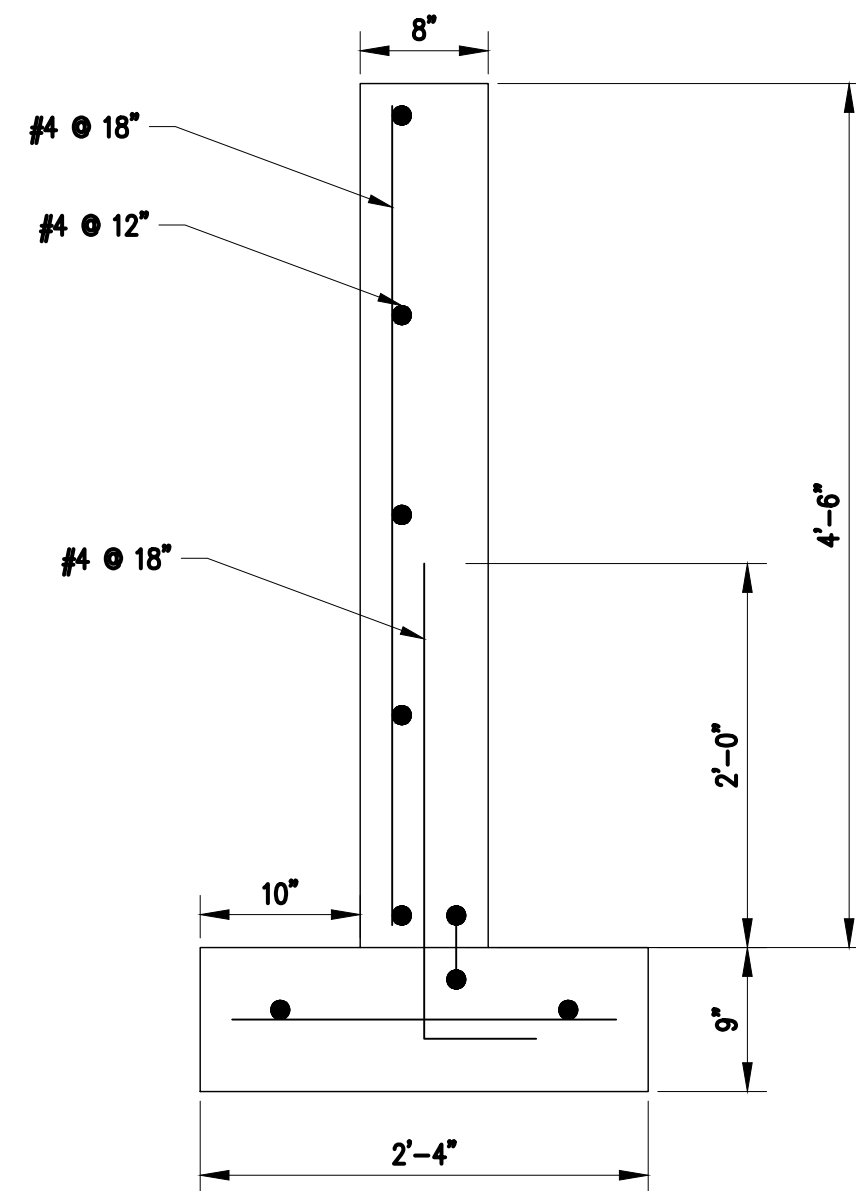
- NOTE:  
1. EXISTING GROUND SURFACE VARIES EL. 464.65±  
2. NOT ALL DISTRIBUTION LATERALS SHOWN FOR CLARITY



RECIRCULATING SAND FILTER (TYPICAL) SECTION A-A  
SCALE: NONE



RECIRCULATING SAND FILTER SECTION B-B  
SCALE: NONE



EXISTING TYP. CONCRETE WALL DETAIL  
SAND FILTER  
SCALE: NONE

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REVISIONS	DATE	NO.			

SAND FILTER DETAILS

WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS

VILLAGE OF MAEYSTOWN  
MONROE COUNTY, ILLINOIS

DRAWN BY: CBK  
CHECKED BY: EYF  
APPROVED BY: SWE

HORIZONTAL SCALE:  
AS NOTED

VERTICAL SCALE:  
N/A

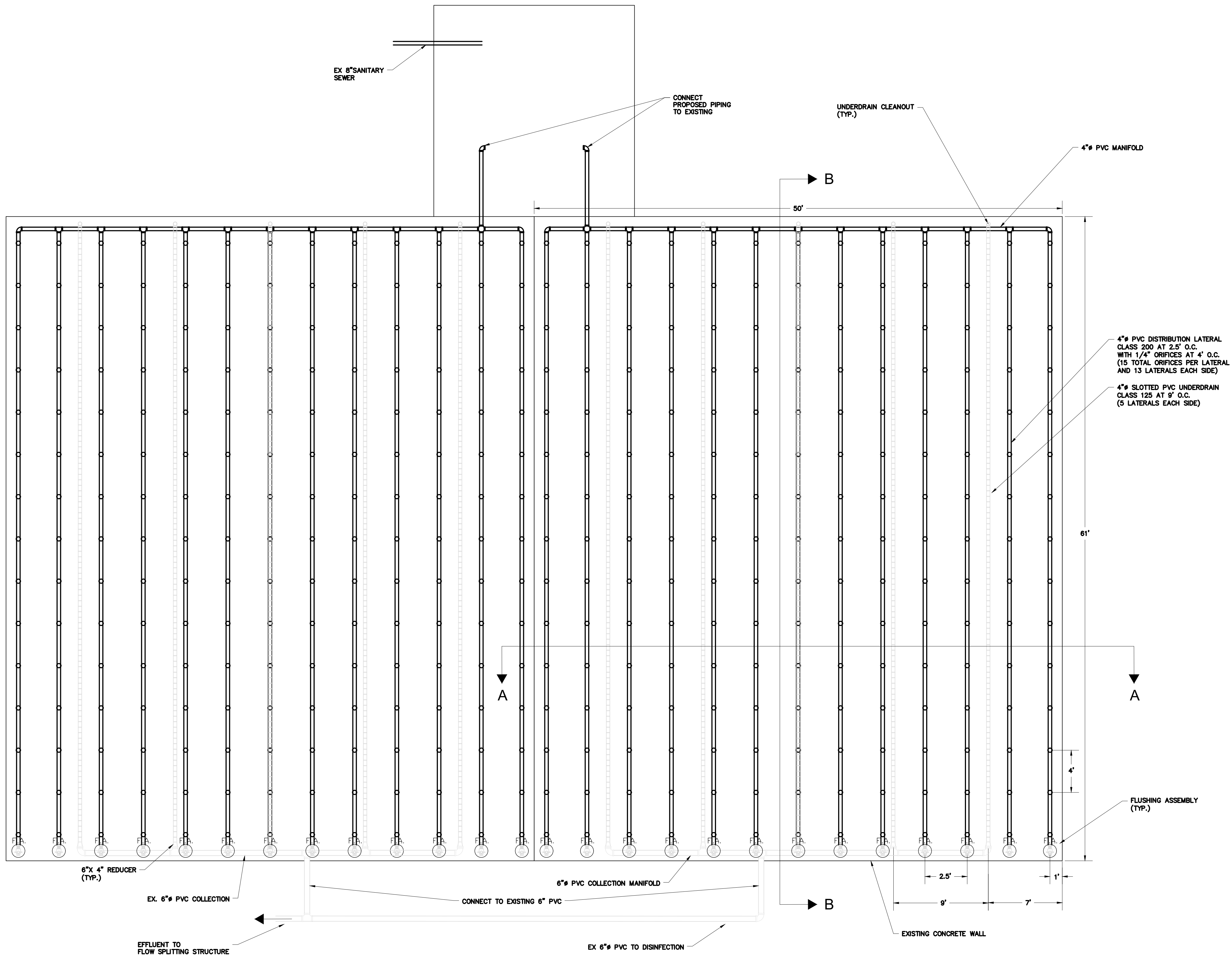
PROJECT NO.  
40038-500

DATE:  
12/24/25

SHEET NO.  
9

9 OF 15 SHEETS

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NOTE: 4" UNDERDRAIN FOR GROUNDWATER NOT SHOWN FOR CLARITY.



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REVISIONS	DATE	NO.

SAND FILTER PLAN  
WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS  
VILLAGE OF MAEYSTOWN  
MONROE COUNTY, ILLINOIS

DRAWN BY: MNM  
CHECKED BY: TAM  
APPROVED BY: SWE

HORIZONTAL SCALE:  
1"=5'

VERTICAL SCALE:  
N/A

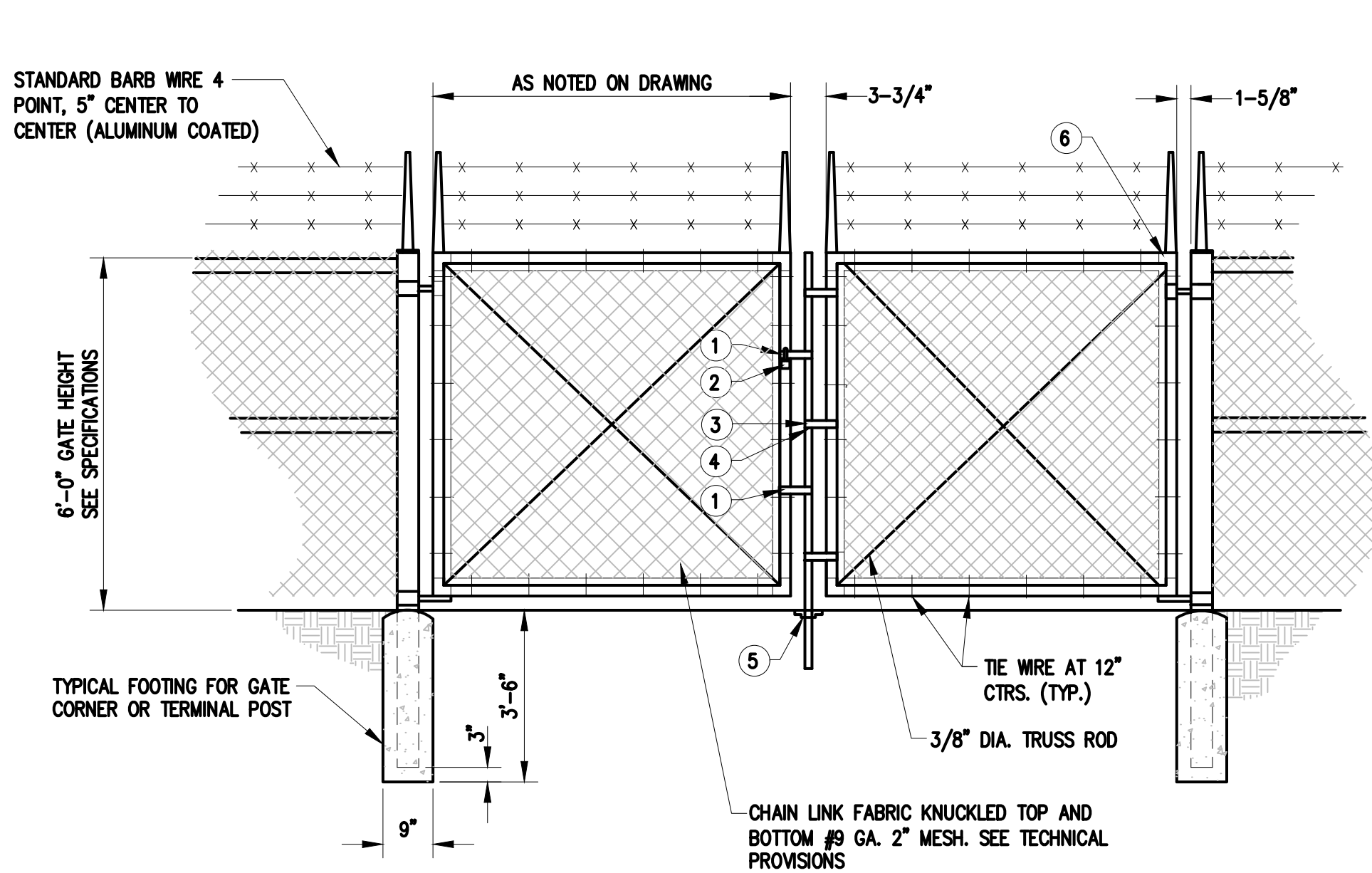
PROJECT NO.  
40038-500

DATE:  
12/24/25

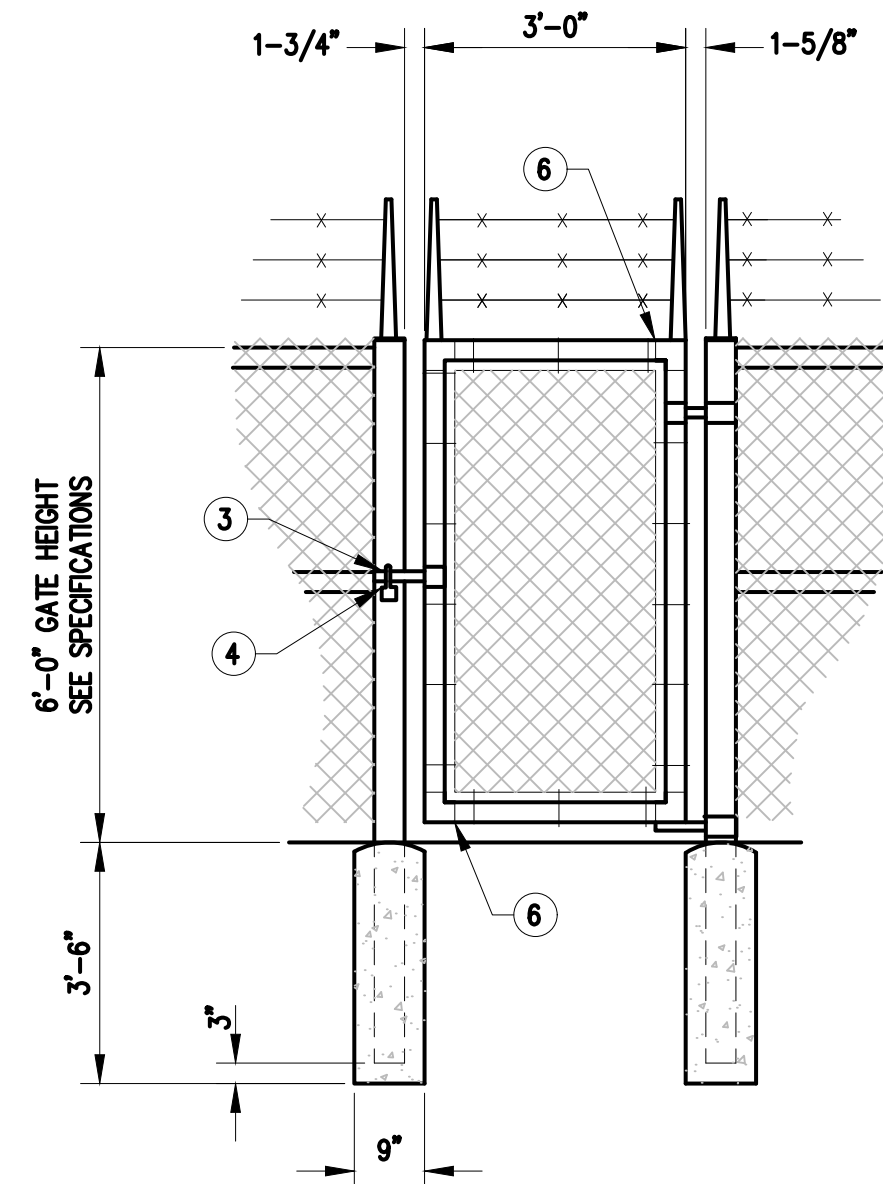
SHEET NO.  
10

10 OF 15 SHEETS

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**DOUBLE SWING GATES**  
SCALE: NONE

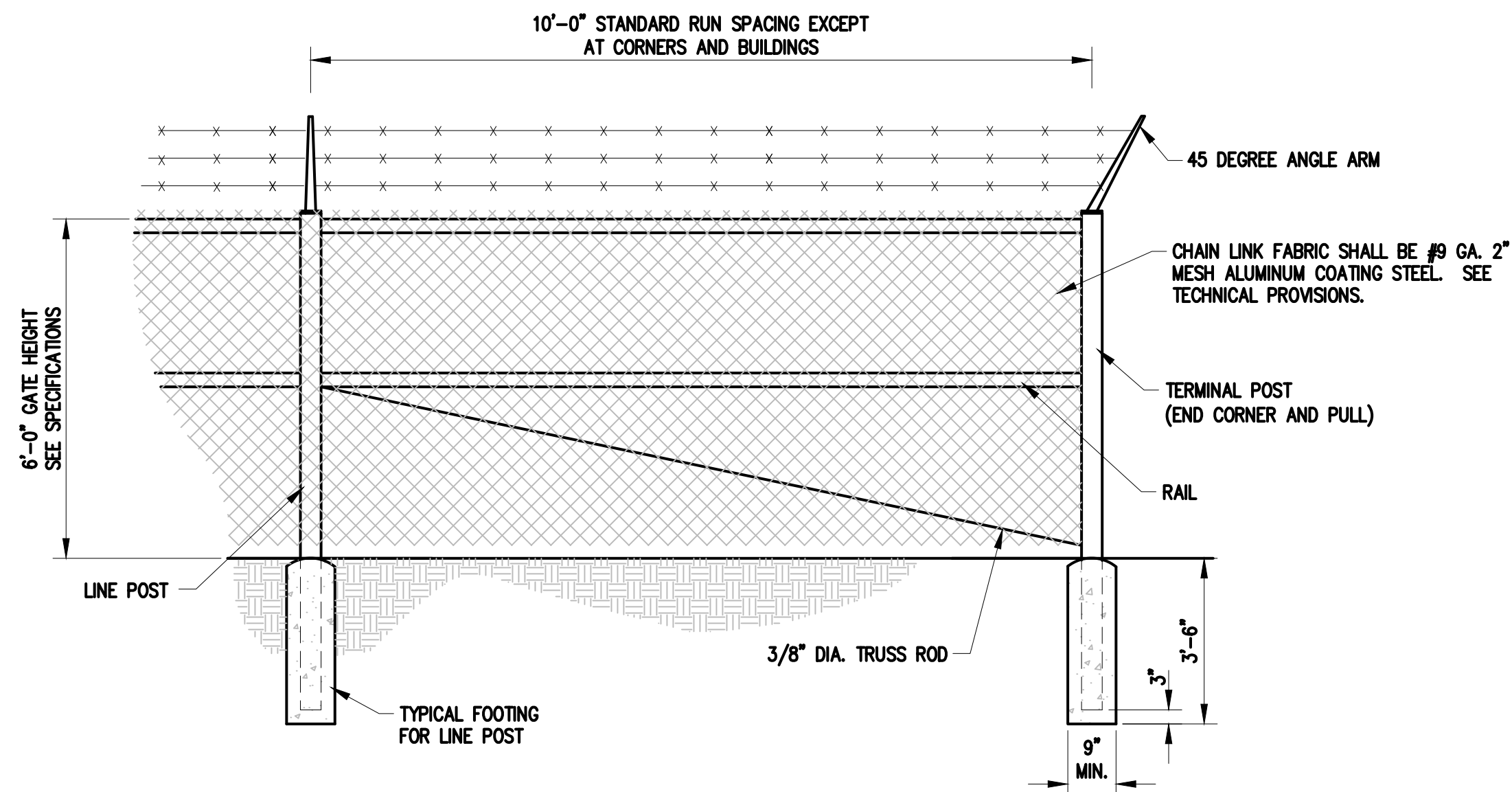


**SINGLE SWING GATES**  
SCALE: NONE

### TUBULAR RAIL AND POSTS

TOP AND BRACE RAIL-----1 5/8" O.D., SCH 40  
INTERMEDIATE POSTS-----2 1/2" O.D., SCH 40  
TERAMINAL POST-----4" O.D., SCH 40

NOTE: ALL POSTS SHALL BE GALVANIZED OR ALUMINUM COATED STEEL.



**STANDARD RUN FENCING DETAILS**  
SCALE: NONE

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REVISIONS	DATE	NO.

**CHAIN LINK FENCE & GATE**  
**WASTEWATER TREATMENT**  
**FACILITY IMPROVEMENTS**

VILLAGE OF MAEYSTOWN  
MONROE COUNTY, ILLINOIS

DRAWN BY: CBK  
CHECKED BY: EYF  
APPROVED BY: SWE

HORIZONTAL SCALE:  
**AS NOTED**

VERTICAL SCALE:  
**N/A**

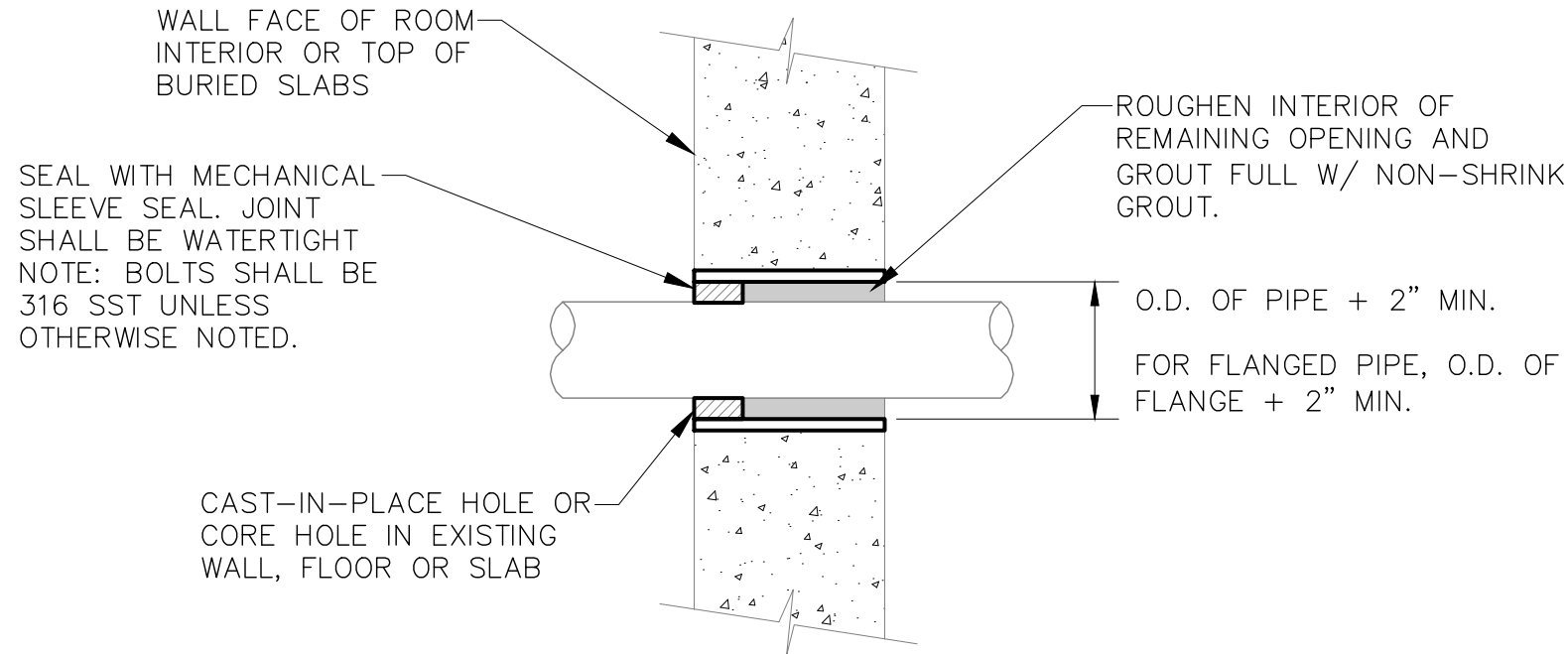
PROJECT NO.  
**40038-500**

DATE:  
**12/24/25**

SHEET NO.  
**11**

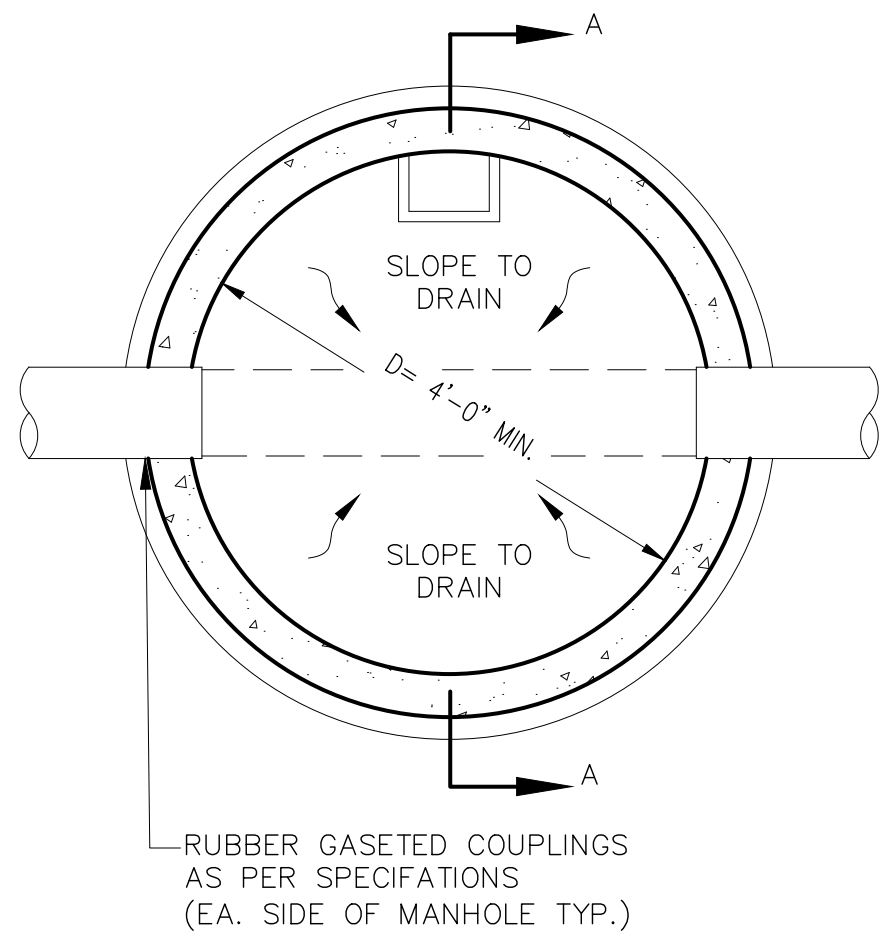
11 OF 15 SHEETS

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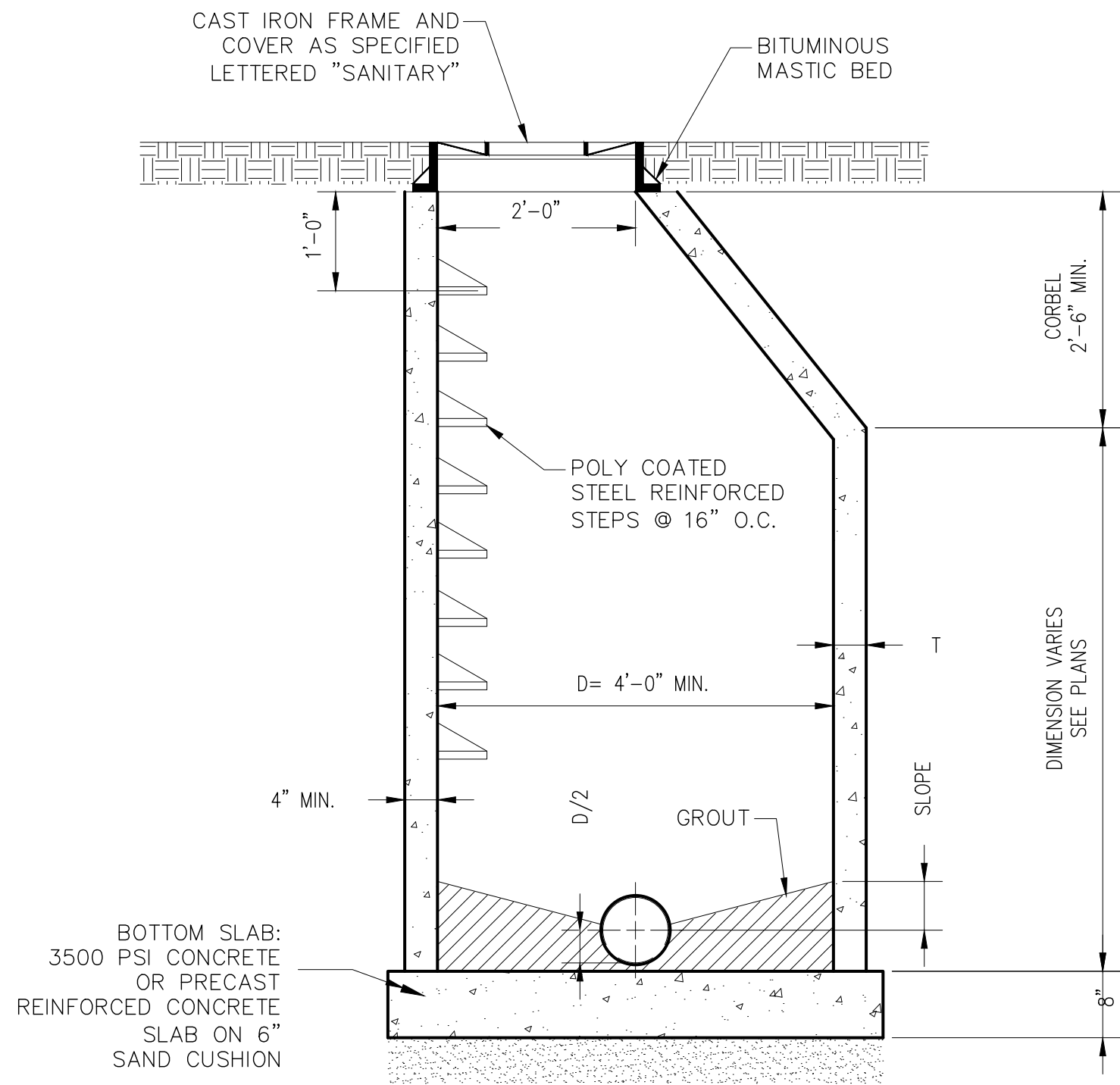
PIPE PENETRATION DETAIL

SCALE: NONE



TYPICAL MANHOLE PLAN

SCALE: NONE



TYPICAL MANHOLE

SCALE: NONE

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MANHOLE DETAILS  
WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS

VILLAGE OF MAEYSTOWN  
MONROE COUNTY, ILLINOIS

DRAWN BY: CBK  
CHECKED BY: EYF  
APPROVED BY: SWE

HORIZONTAL SCALE:  
AS NOTED

VERTICAL SCALE:  
N/A

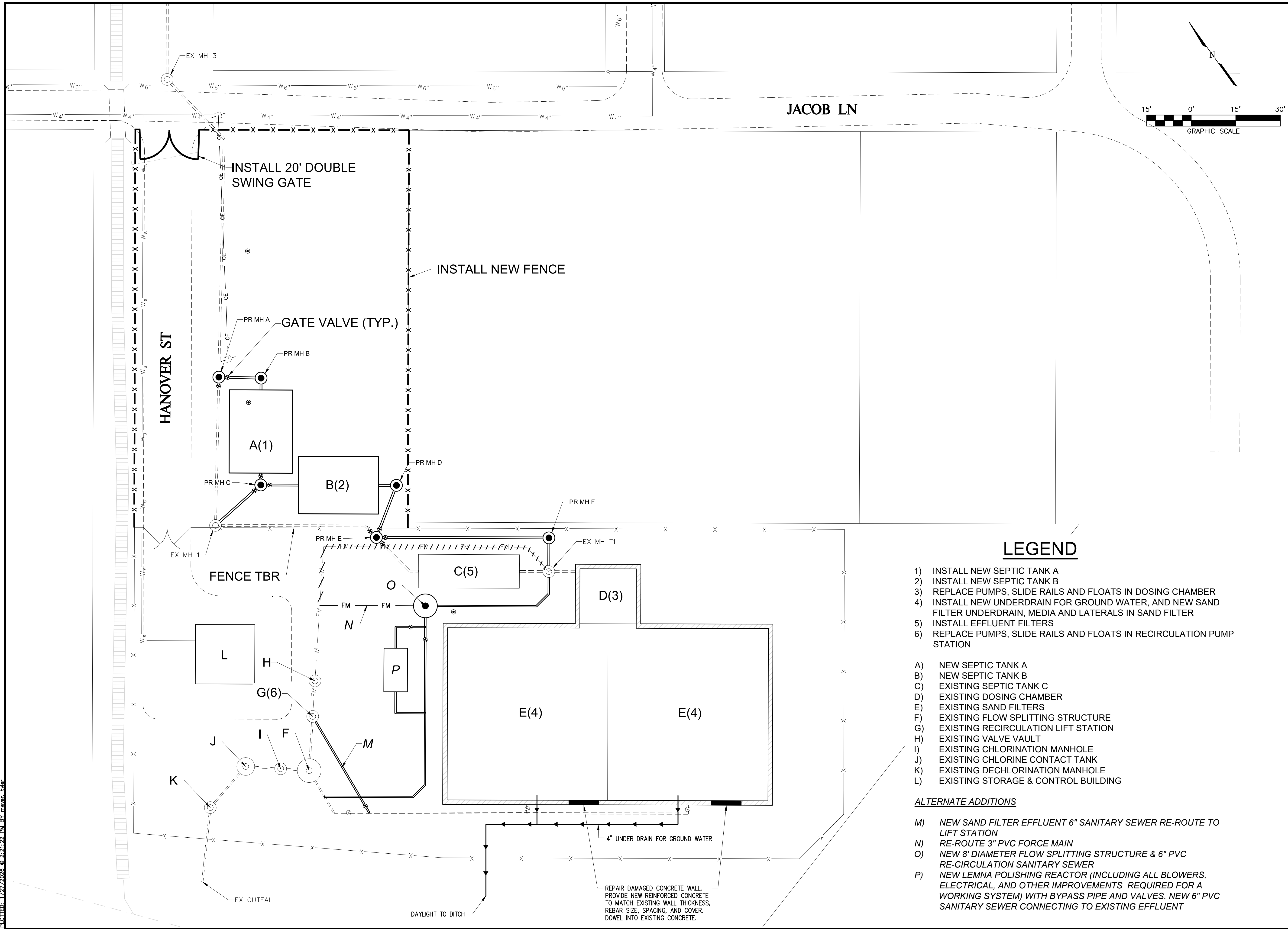
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40038-500


DATE:  
12/24/25

SHEET NO.  
12



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NO.	DATE	REVISIONS

**ALTERNATE PROPOSED SITE PLAN**

**WASTEWATER TREATMENT FACILITY IMPROVEMENTS**

VILLAGE OF MAEYSTOWN  
MONROE COUNTY, ILLINOIS

DRAWN BY: CBK  
CHECKED BY: EYF  
APPROVED BY: SWE

HORIZONTAL SCALE:  
**1"=15'**

VERTICAL SCALE:  
**N/A**

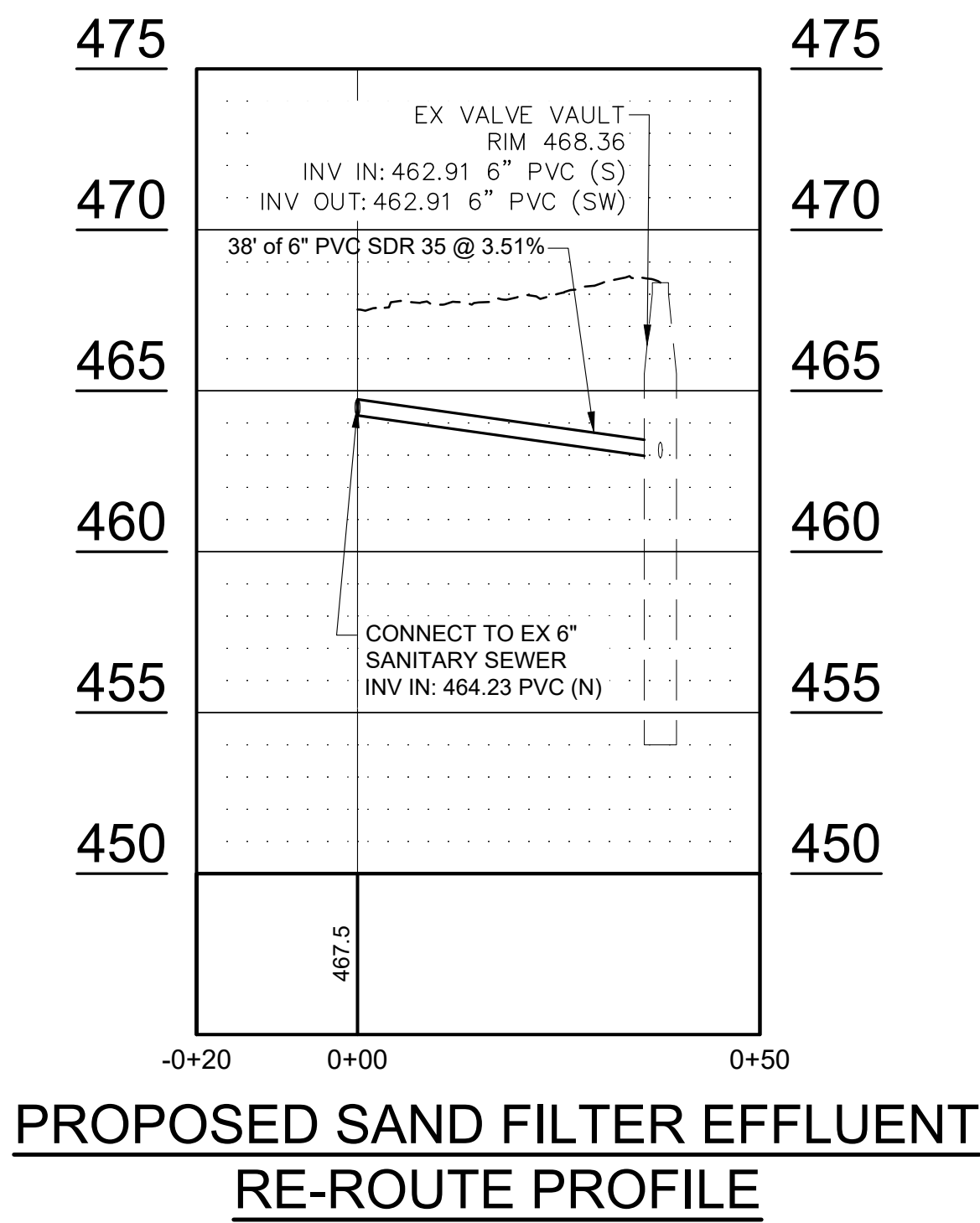
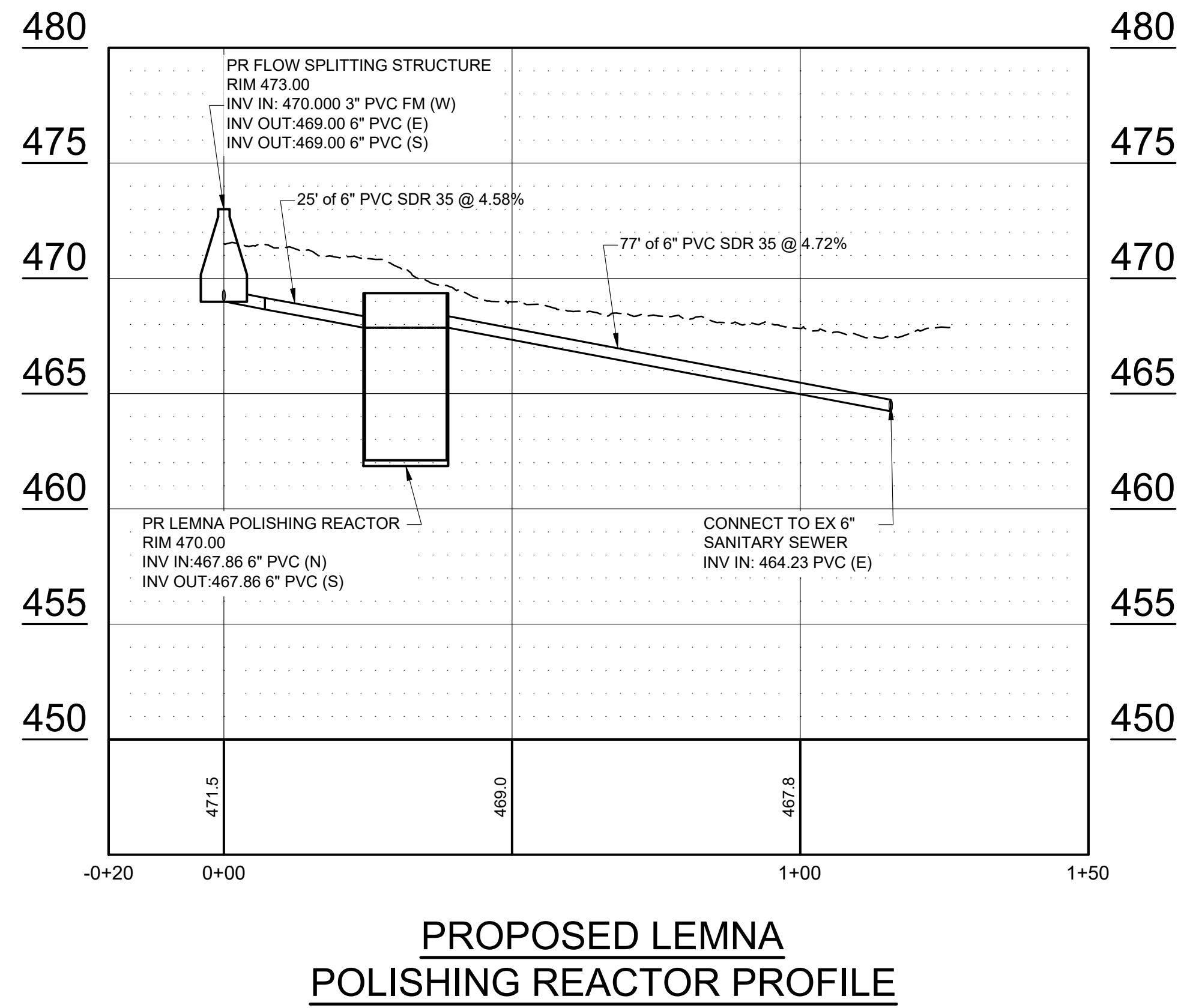
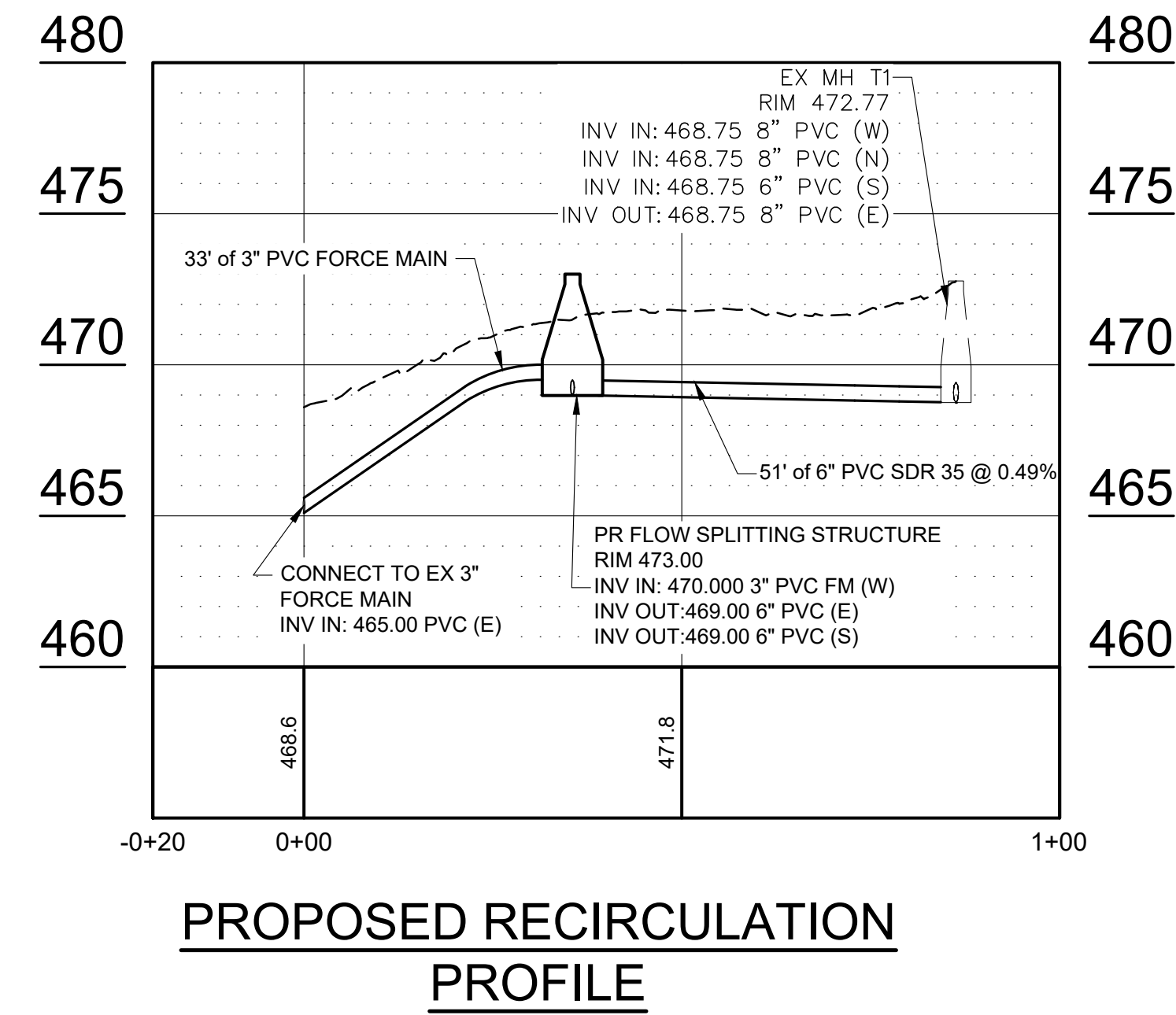
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**40038-500**

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**13**

13 OF 15 SHEETS

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NO.	DATE	REVISIONS

ALTERNATE HYDRAULIC PROFILES

WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS

VILLAGE OF MAEYSTOWN  
MONROE COUNTY, ILLINOIS

DRAWN BY: CBK  
CHECKED BY: EYF  
APPROVED BY: SWE

HORIZONTAL SCALE:

AS NOTED

VERTICAL SCALE:

N/A

PROJECT NO.

40038-500

DATE:

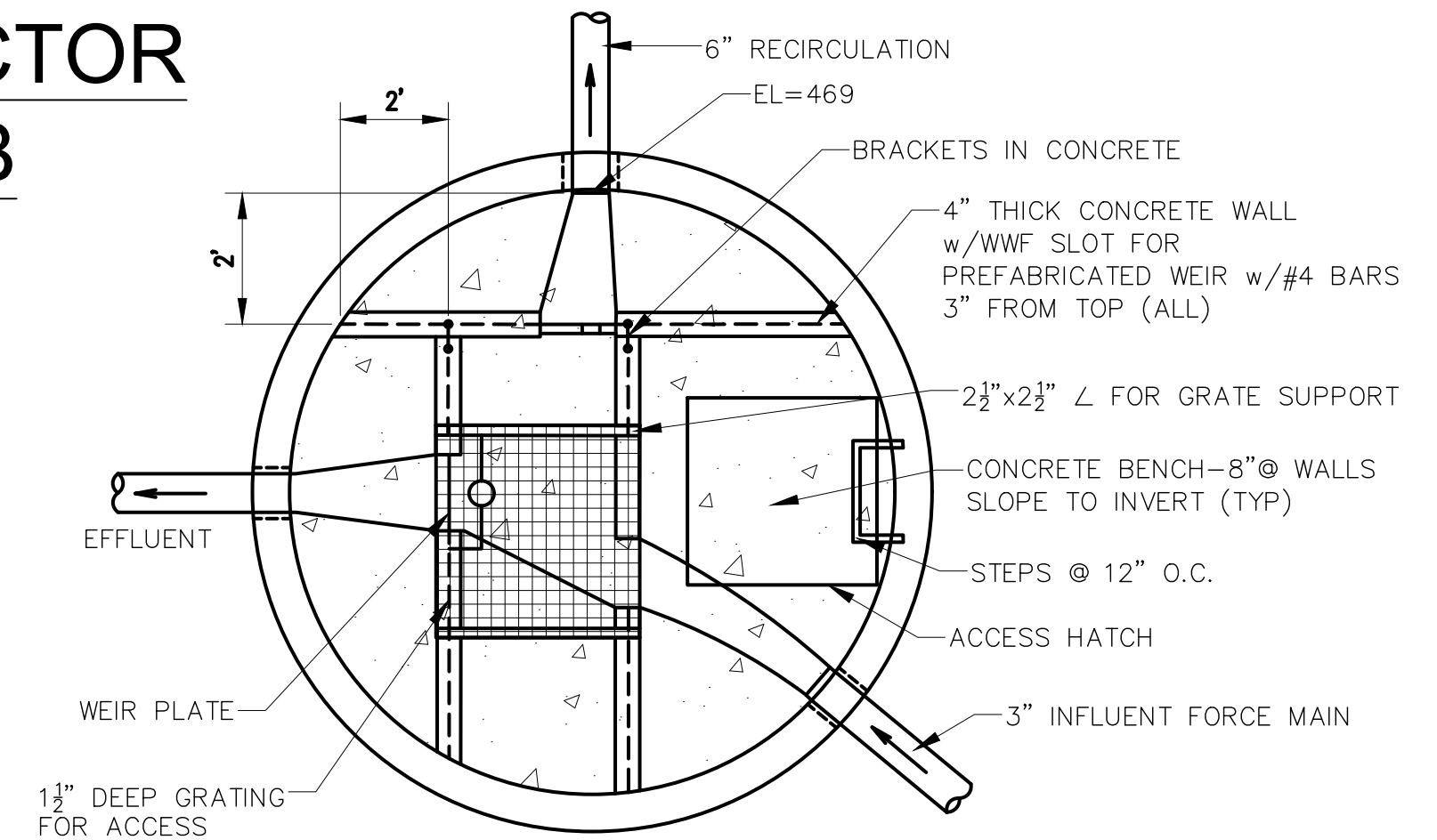
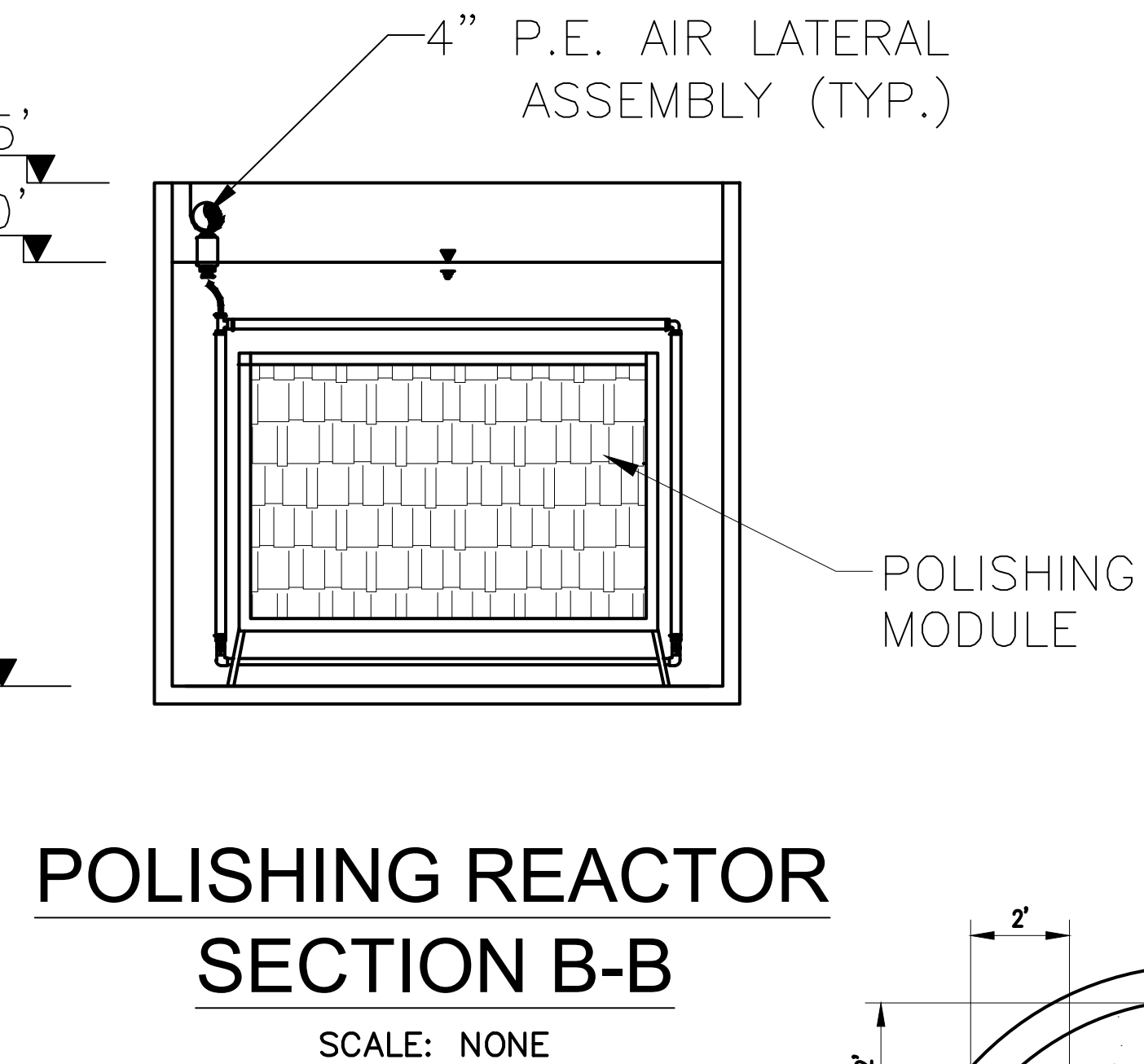
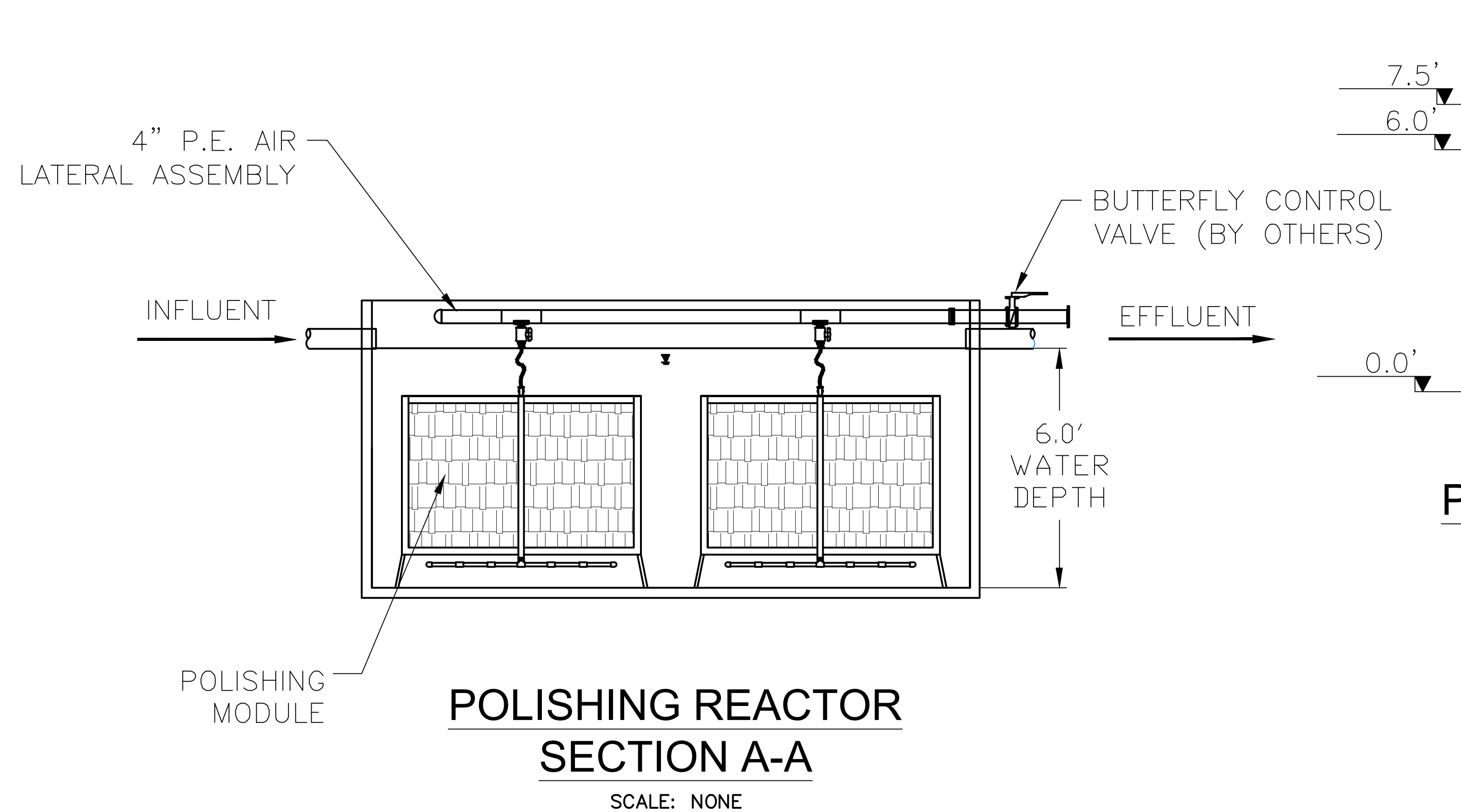
12/24/25

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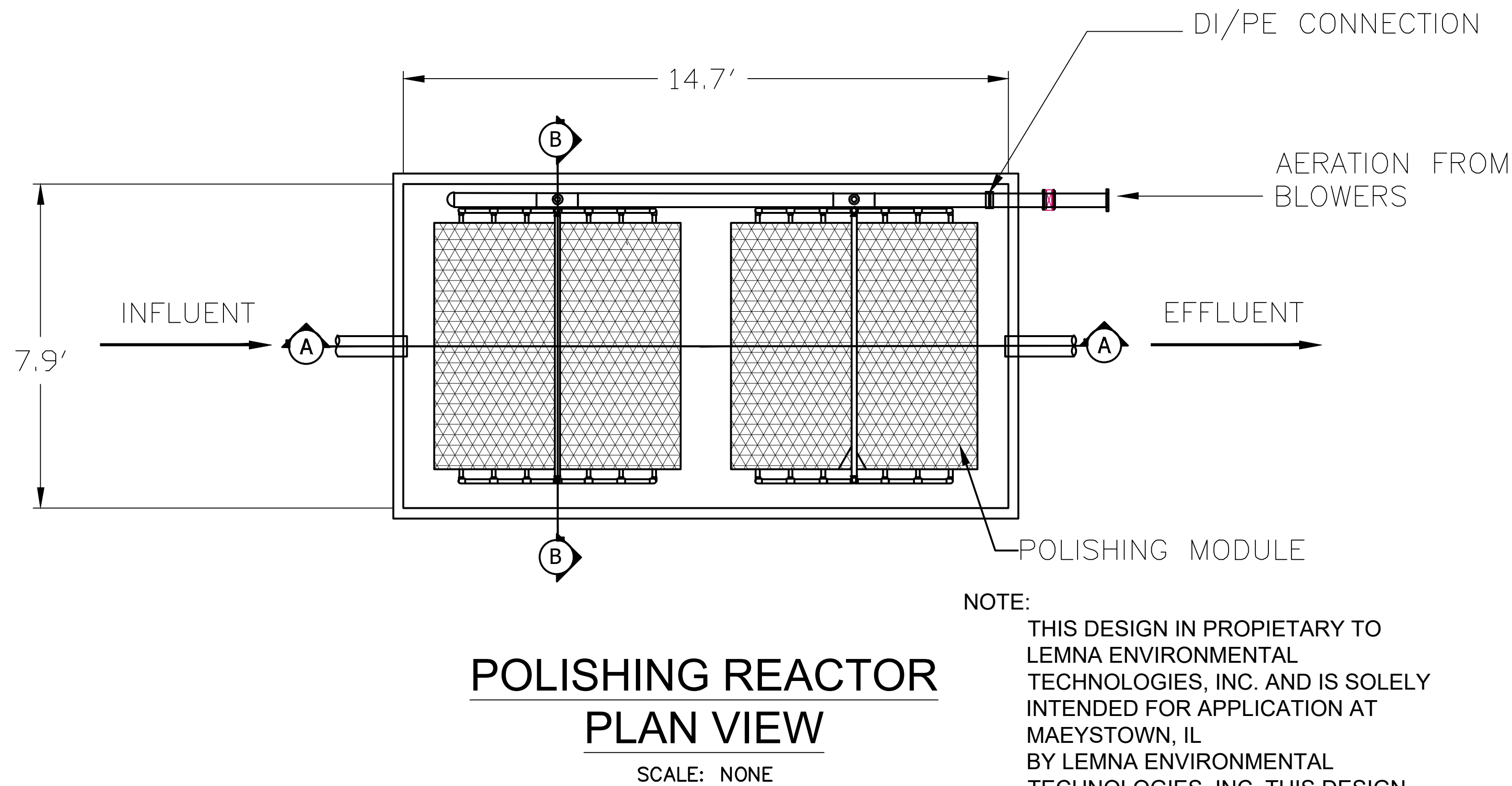
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14 OF 15 SHEETS

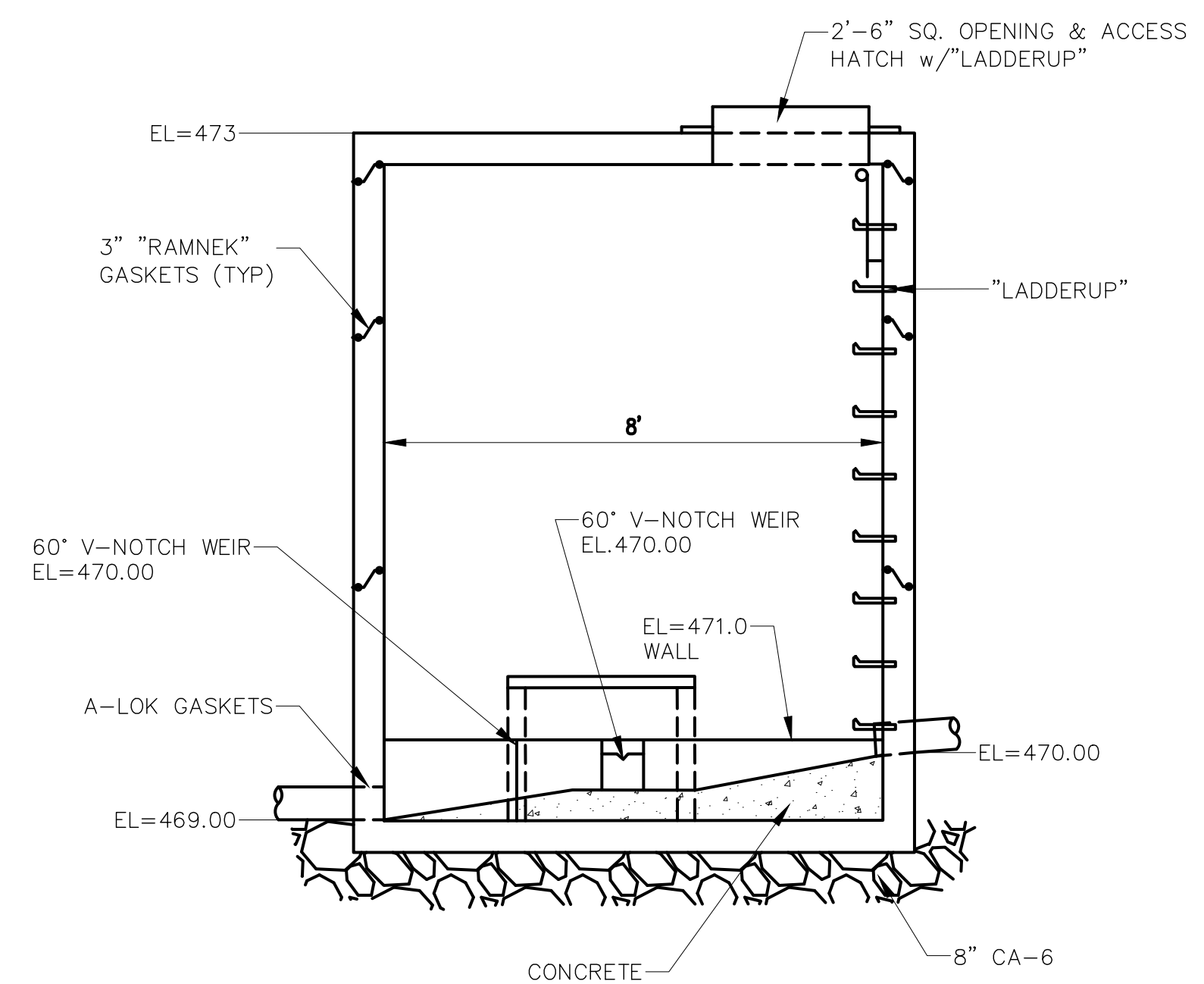
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FLOW SPLITTING STRUCTURE - PLAN  
SCALE: NONE



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FLOW SPLITTING STRUCTURE - SECTION  
SCALE: NONE

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REVISIONS	DATE	NO.			

ALTERNATE DETAILS

WASTEWATER TREATMENT  
FACILITY IMPROVEMENTS

VILLAGE OF MAEYSTOWN  
MONROE COUNTY, ILLINOIS

DRAWN BY: CBK  
CHECKED BY: EYF  
APPROVED BY: SWE

HORIZONTAL SCALE:  
AS NOTED

VERTICAL SCALE:  
N/A

PROJECT NO.  
40038-500

DATE:  
12/23/25

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