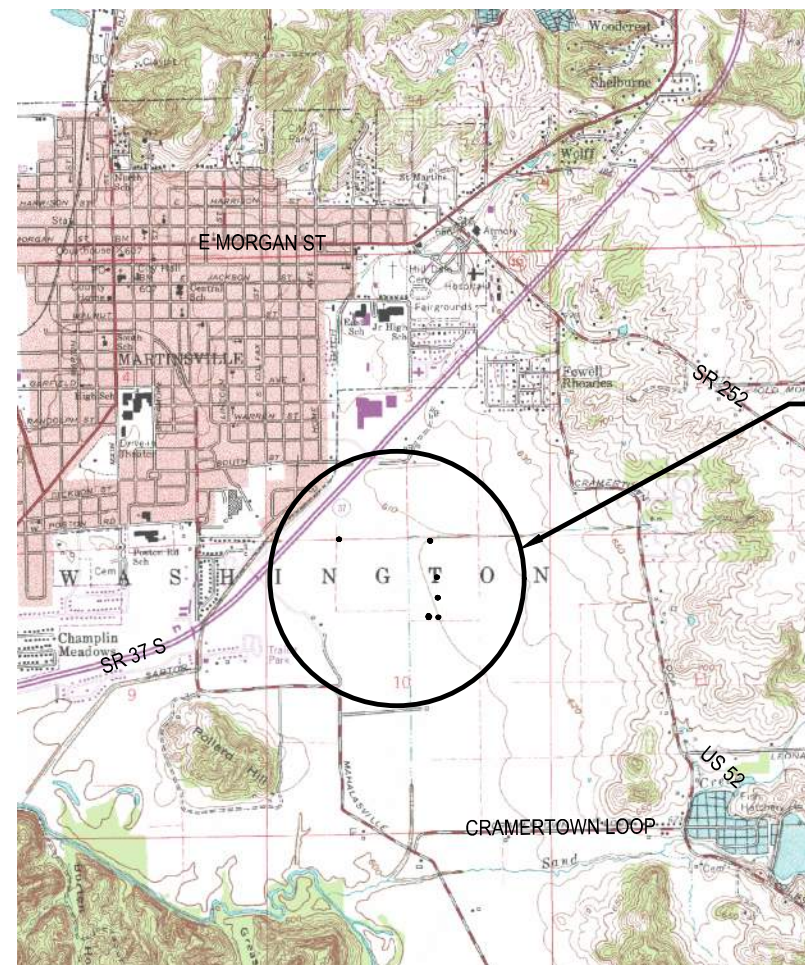
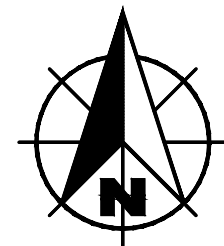


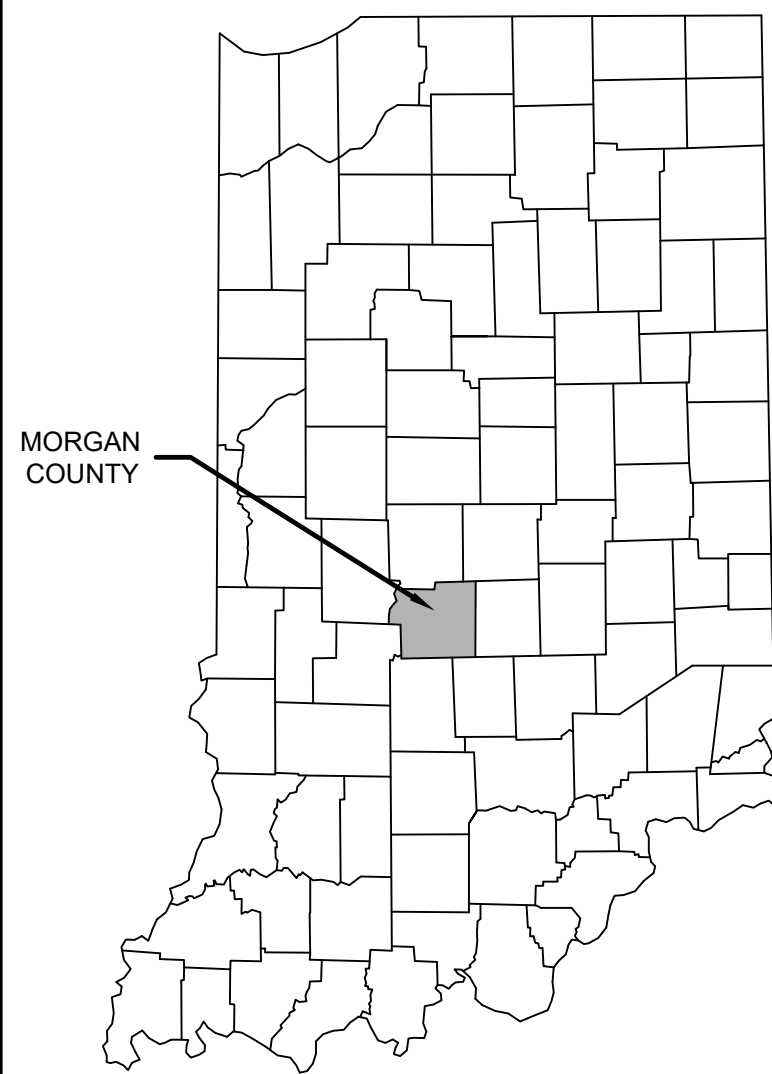
EAST SERVICE AREA WATER AND SEWER EXTENSIONS FOR THE

CITY OF MARTINSVILLE, INDIANA



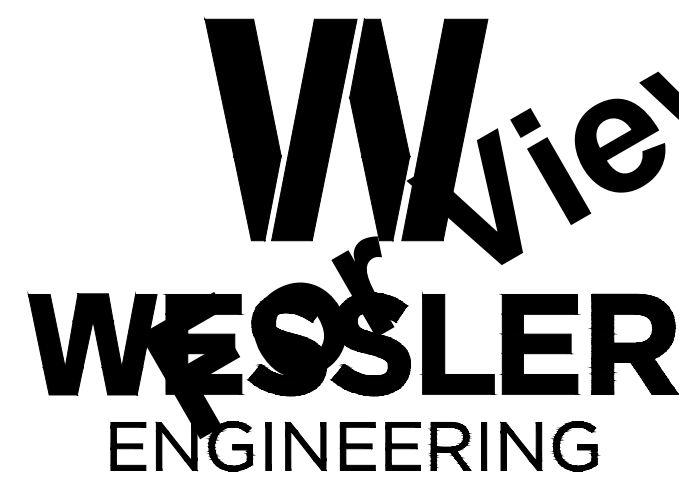
PROJECT LOCATION

MARTINSVILLE, INDIANA
VICINITY MAP
SCALE: NONE



MORGAN COUNTY

STATE LOCATION MAP
SCALE: NONE



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PROJECT NO. 245521-04-001

DRAWINGS PREPARED FOR:

CITY OF MARTINSVILLE

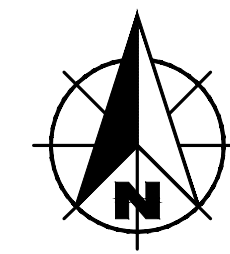
- KENNY COSTIN, MAYOR
- PHIL DECKARD, CITY COUNCIL
- PHIL DECKARD II, CITY COUNCIL
- BEN MAHAN, CITY COUNCIL
- JOSH FERRAN, CITY COUNCIL
- SUSIE LIPPS, CITY COUNCIL
- ANN MILLER, CITY COUNCIL
- JIM WISCO, CITY COUNCIL
- BECKY TUMEY, CLERK-TREASURER
- MAC DUNN, CITY SUPERINTENDENT
- PHIL MCLARY, WWTP SUPERINTENDENT
- DALE COFFEY, CITY ATTORNEY
- GARY OAKES, DIRECTOR OF PLANNING & ENGINEERING
- KENNY COSTIN, BOARD OF WORKS
- JOHN LILLYWHITE, BOARD OF WORKS
- KELLY BRAY, BOARD OF WORKS

JULY 2022

	<i>Robert W. Holden, II</i> ROBERT W. HOLDEN REGISTERED ENGINEER STATE OF INDIANA NO. 1000096
	<i>Wayne C. Moore</i> WAYNE C MOORE REGISTERED ENGINEER STATE OF INDIANA NO. 10707476
	<i>Loys H. Rees</i> LOYS H. REES REGISTERED ENGINEER STATE OF INDIANA NO. 12000685
	<i>Jeffrey R. Ballard</i> JEFFERY R. BALLARD REGISTERED ENGINEER STATE OF INDIANA NO. 60860191

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Drawing: J:\Martinsville\Projects\245521-Martinsville-WWW\Expansion\CADD\DWG\Sheets\245521-GS.dwg | Layout: TGI | Plotted: 07/05/22 @ 11:14:02 | LastSavedBy: travis



HORIZONTAL AND VERTICAL CONTROL INFORMATION

NOTES:

1. A FIELD SURVEY WAS PERFORMED IN (OCTOBER 2021).
2. COORDINATES (INDIANA STATE PLANE, WEST ZONE, NAD 83) AND ELEVATIONS (NAVD 88) ARE BASED ON INCORS.
3. UNITS ARE U.S. SURVEY FEET.
4. CONTROL POINTS WERE SET USING GPS TECHNIQUES.
5. LEVEL LOOPS WERE PERFORMED THROUGH GPS CONTROL POINTS.

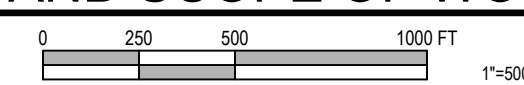
BENCHMARK DESCRIPTION:

1. CP 10 - MAGNAIL IN PAVEMENT APPROXIMATELY 19' EAST OF CL OF ARTESIAN AVENUE AND 3230' SOUTH OF INTERSECTION OF GRAND VALLEY BOULEVARD AND ARTESIAN AVENUE.
2. CP 11 - MAGNAIL IN PAVEMENT APPROXIMATELY 9' EAST OF CL OF ARTESIAN AVENUE AND 2730' SOUTH OF INTERSECTION OF GRAND VALLEY BOULEVARD AND ARTESIAN AVENUE.
3. CP 12 - MAGNAIL IN PAVEMENT APPROXIMATELY 19' EAST OF CL OF ARTESIAN AVENUE AND 2227' SOUTH OF INTERSECTION OF GRAND VALLEY BOULEVARD AND ARTESIAN AVENUE.
4. CP 13 - MAGNAIL IN PAVEMENT APPROXIMATELY 19' EAST OF CL OF ARTESIAN AVENUE AND 222' SOUTH OF INTERSECTION OF GRAND VALLEY BOULEVARD AND ARTESIAN AVENUE.
5. CP 14 - MAGNAIL IN PAVEMENT APPROXIMATELY 18' EAST OF CL OF ARTESIAN AVENUE AND 1220' SOUTH OF INTERSECTION OF GRAND VALLEY BOULEVARD AND ARTESIAN AVENUE.
6. CP 23 - MAGNAIL IN PAVEMENT APPROXIMATELY 315' EAST OF ROBERT CURRY DR AND 198' SOUTH OF FLAG STONE DR.
7. CP 24 - MAGNAIL IN PAVEMENT IN CUL-DE-SAC BETWEEN 1288 AND 1278 CRABAPPLE COURT.
8. CP 25 - MAGNAIL IN PAVEMENT APPROXIMATELY 19' NORTH OF CRABAPPLE COURT AND 11' WEST OF CL OF ELM ST.
9. CP 25 - MAGNAIL IN PAVEMENT IN CUL-DE-SAC BETWEEN 1398 AND 1402 CRABAPPLE COURT.

DRAWING INDEX	
SHEET NO.	DESCRIPTION
GENERAL	
01	COVER SHEET
02	LOCATION PLAN AND DRAWING INDEX
03	GENERAL NOTES
WATER MAIN PLAN AND PROFILE SHEETS	
	WATER MAIN - LINE A
	WATER MAIN - LINE A PROFILES
SANITARY PLAN AND PROFILE SHEETS	
09 - 12	SANITARY FORCE MAIN - LINE A
13 - 14	SANITARY SEWER - LINE B
LIFT STATION	
15	NEW LIFT STATION SITE PLAN
16	NEW LIFT STATION - ELECTRICAL SITE PLAN
17	NEW LIFT STATION - PLAN AND SECTION
MISCELLANEOUS DETAILS	
18-22	MISCELLANEOUS DETAILS
MAINTENANCE OF TRAFFIC	
23	MAINTENANCE OF TRAFFIC DETAILS
EROSION CONTROL DETAILS	
24-25	EROSION CONTROL DETAILS
ELECTRICAL	
26	ONE-LINE AND PANEL SCHEDULE
27	ELECTRICAL DETAILS
28	CONTROL PANEL ROOF STRUCTURE DETAILS

CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 1	1514918.34	3141095.97	603.14	5/8" REBAR
CP 4	1514887.70	3141637.90	603.60	MAGNAIL
CP 6	1514897.32	3142147.31	606.89	MAGNAIL
CP 10	1515694.74	3143636.27	607.13	MAGNAIL
CP 11	1516195.76	3143622.58	608.52	MAGNAIL
CP 12	1516698.68	3143607.86	610.11	MAGNAIL
CP 13	1517202.74	3143594.42	611.55	MAGNAIL
CP 14	1517704.93	3143579.23	613.19	MAGNAIL
CP 22	1517763.26	3141796.57	602.25	MAGNAIL
CP 23	1517482.29	3142006.50	604.98	MAGNAIL
CP 24	1517491.51	3142469.37	605.13	MAGNAIL
CP 25	1517498.76	3142959.08	606.89	MAGNAIL

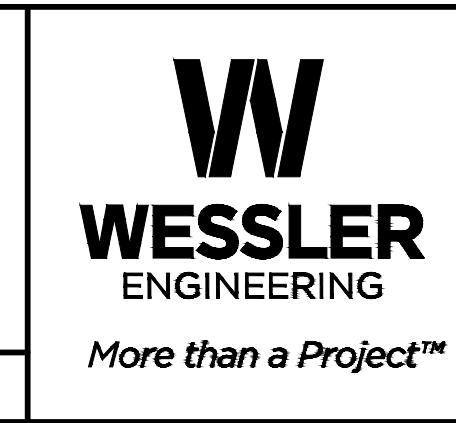
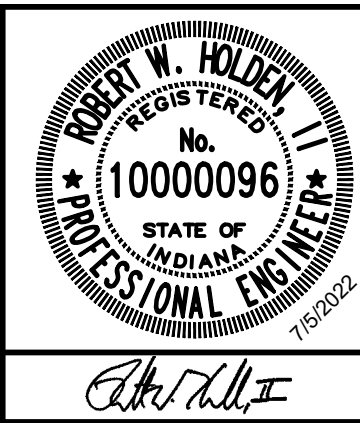
LOCATION AND SCOPE OF WORK PLAN



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	ISSUE DATE	JULY 2022				
	PROJECT NUMBER	245521-04-001				

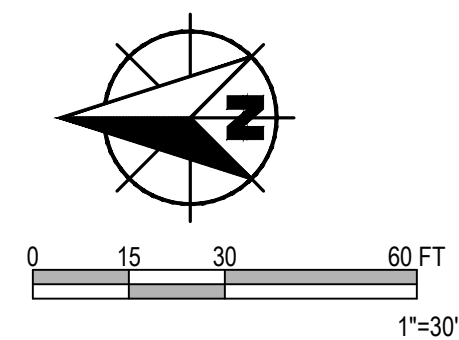


EAST SERVICE AREA WATER AND SEWER EXTENSIONS

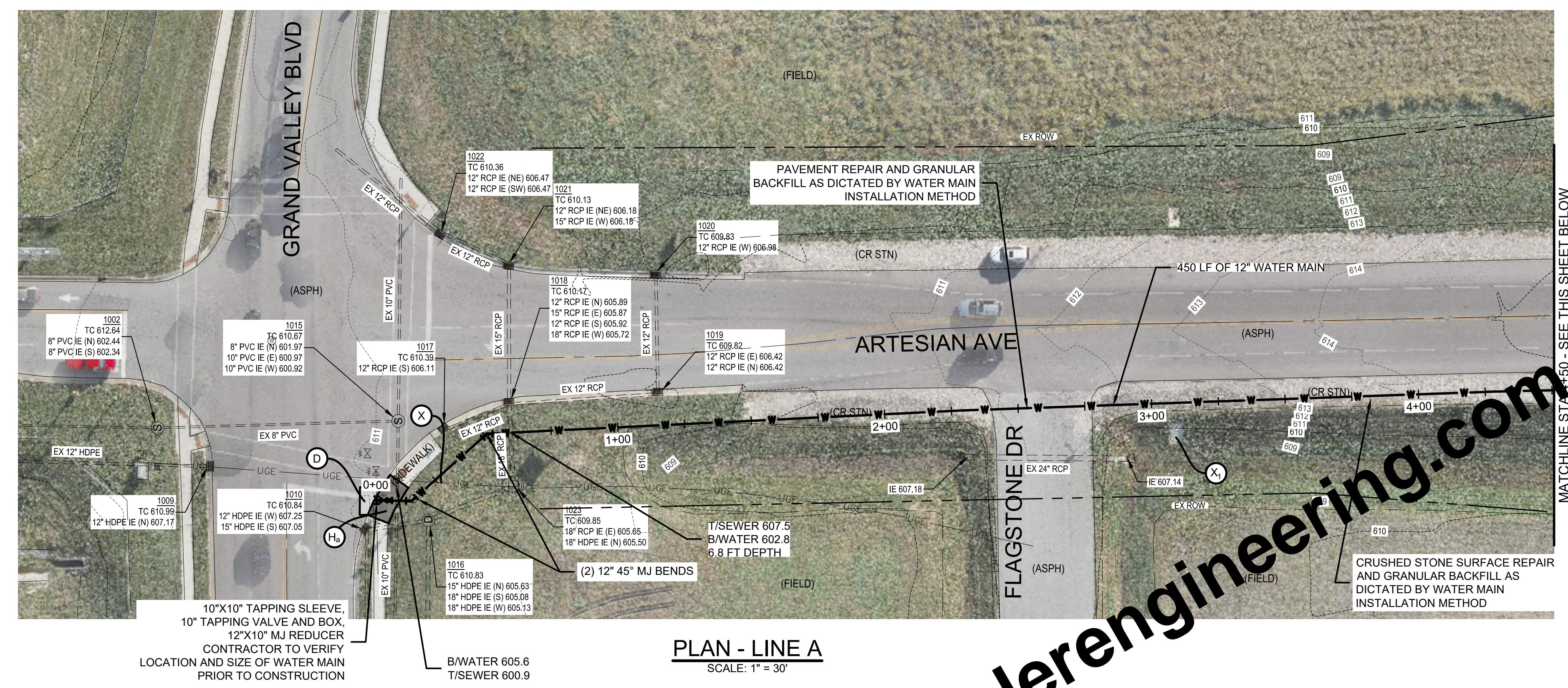
CITY OF MARTINSVILLE, INDIANA

LOCATION PLAN AND DRAWING INDEX

SHEET NO.	02
TOTAL SHEETS	28



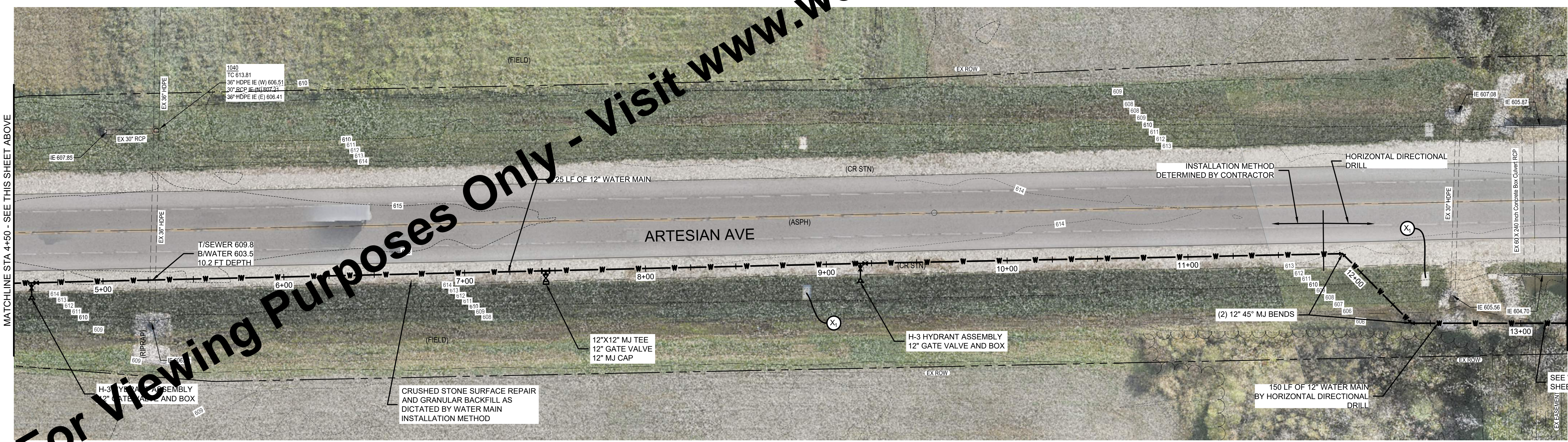
NOTES:
 1. WATER MAIN PIPE MATERIAL IS TO BE SELECTED BY CONTRACTOR. HDPE PIPE SHALL BE 14" IF SELECTED



PLAN - LINE A
 SCALE: 1" = 30'

KEYED NOTES

- D PAVEMENT REPAIR
- H_c CURB RAMP REPAIR
- X POTENTIAL UTILITY CONFLICT FIELD VERIFY PRIOR TO CONSTRUCTION.
- X₁ ROAD UNDER DRAIN OUTLET. CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION PRIOR TO CONSTRUCTION.



PLAN - LINE A
 SCALE: 1" = 30'

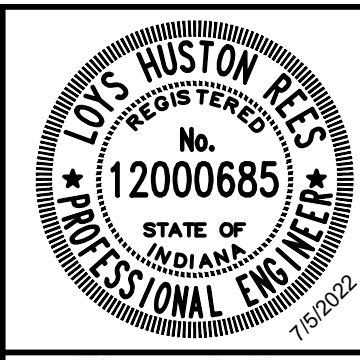
MATCHLINE STA 4+50 - SEE THIS SHEET ABOVE

MATCHLINE STA 13+25 - SEE SHEET NO. 05

SEE WATER MAIN - LINE A PROFILES SHEET NO. 08

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BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	TMG				
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	ISSUE DATE					
	JULY 2022					
	PROJECT NUMBER					
	245521-04-001					



EAST SERVICE AREA WATER AND SEWER EXTENSIONS

CITY OF MARTINSVILLE, INDIANA

WATER MAIN - LINE A

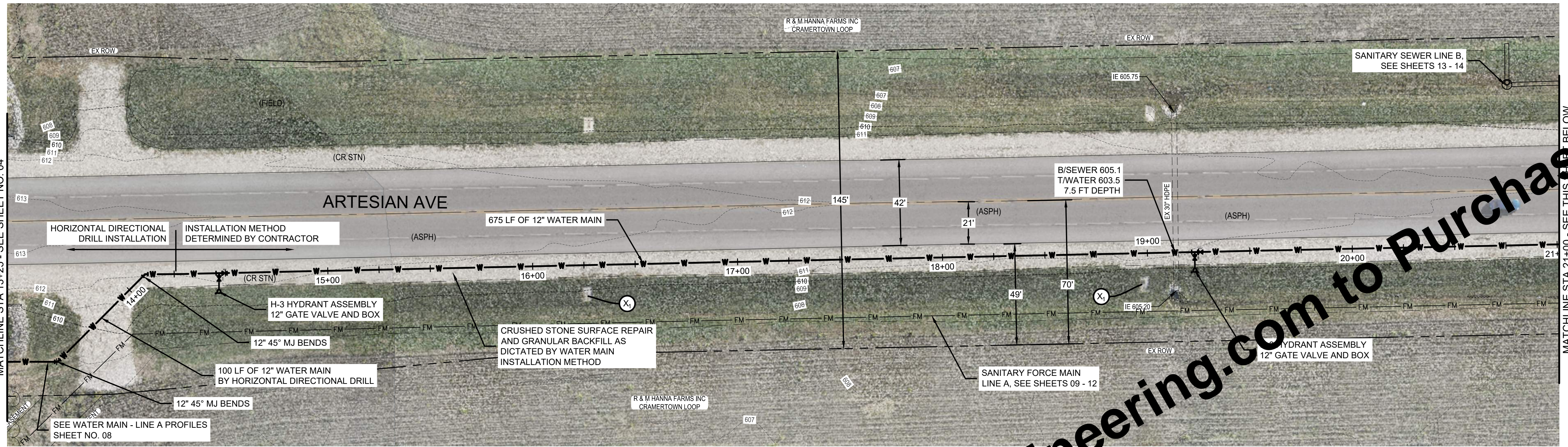
SHEET NO.

04

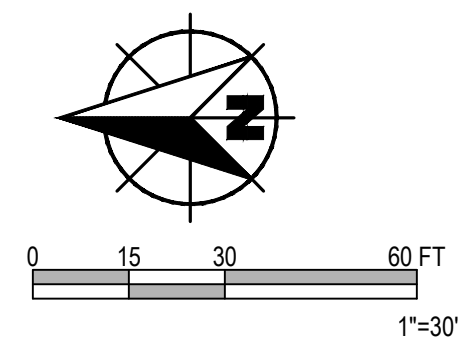
TOTAL SHEETS

28

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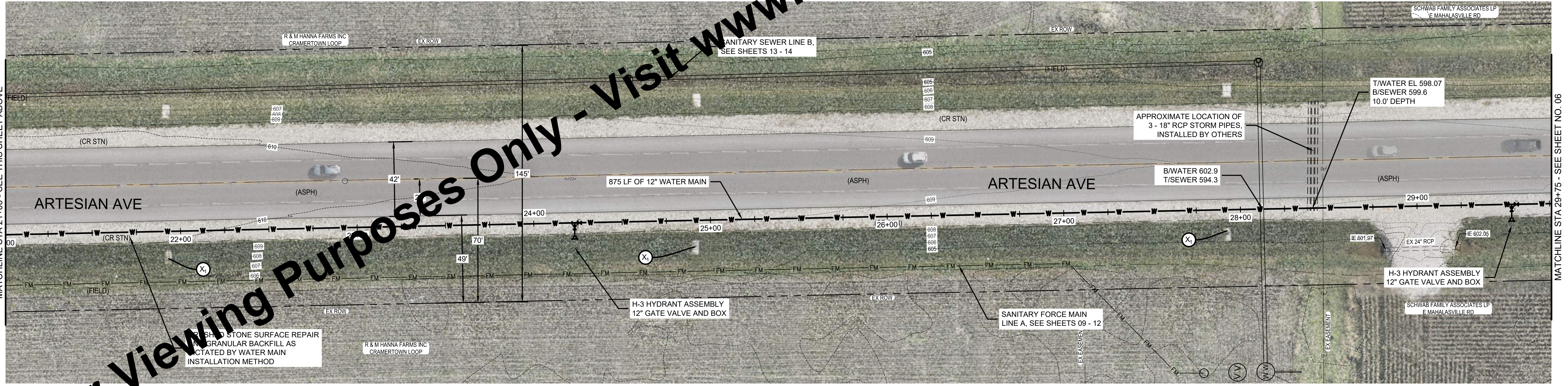
PLAN - LINE A
SCALE: 1" = 30'



NOTES:
1. WATER MAIN PIPE MATERIAL IS TO BE SELECTED BY CONTRACTOR. HDPE PIPE SHALL BE 14" IF SELECTED

KEYED NOTES


- D PAVEMENT REPAIR
- H_s CURB RAMP REPAIR
- X POTENTIAL UTILITY CONFLICT FIELD VERIFY PRIOR TO CONSTRUCTION.
- X₁ ROAD UNDER DRAIN OUTLET. CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION PRIOR TO CONSTRUCTION.

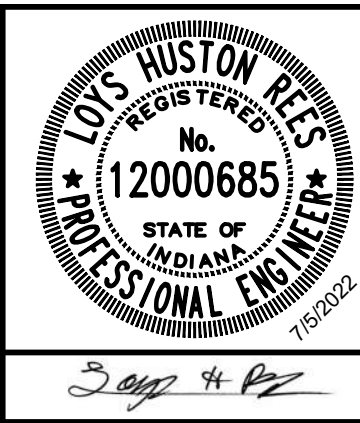


PLAN - LINE A
SCALE: 1" = 30'

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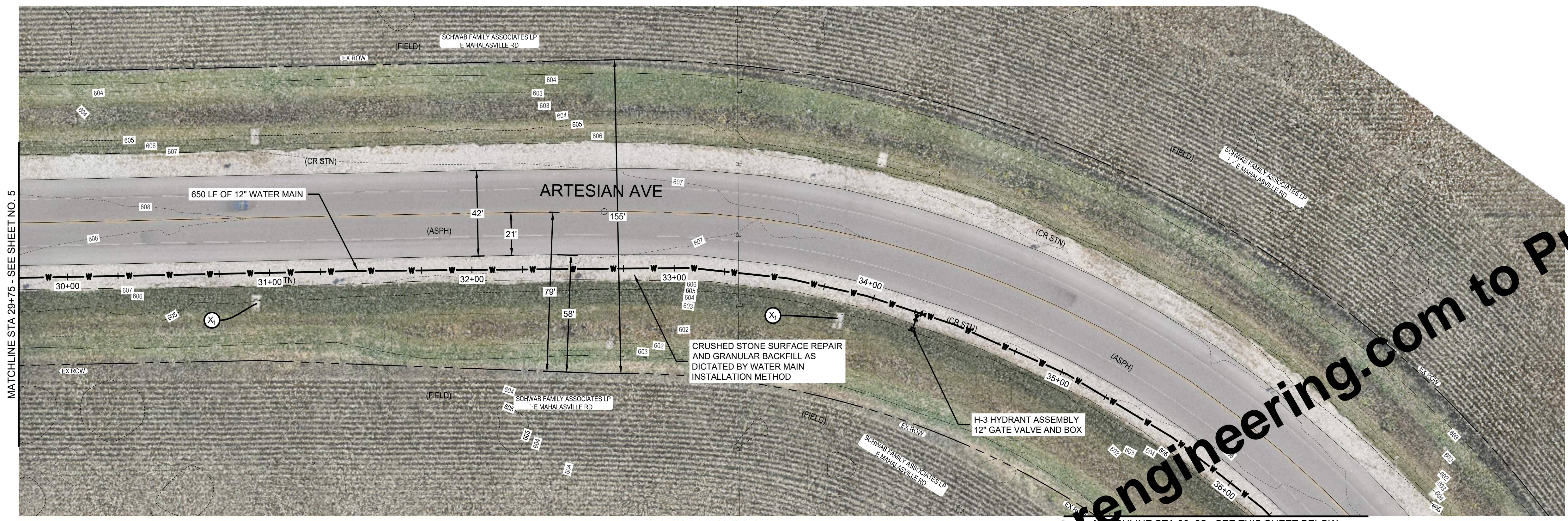
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	APPROVED BY	LHR				
	ISSUE DATE	JULY 2022				
	PROJECT NUMBER	245521-04-001				

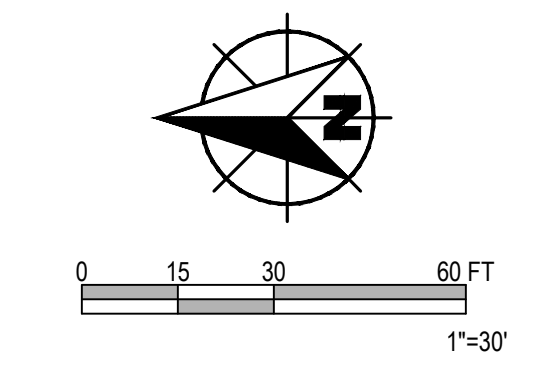


EAST SERVICE AREA WATER AND SEWER EXTENSIONS
CITY OF MARTINSVILLE, INDIANA
WATER MAIN - LINE A

SHEET NO.	05
TOTAL SHEETS	28



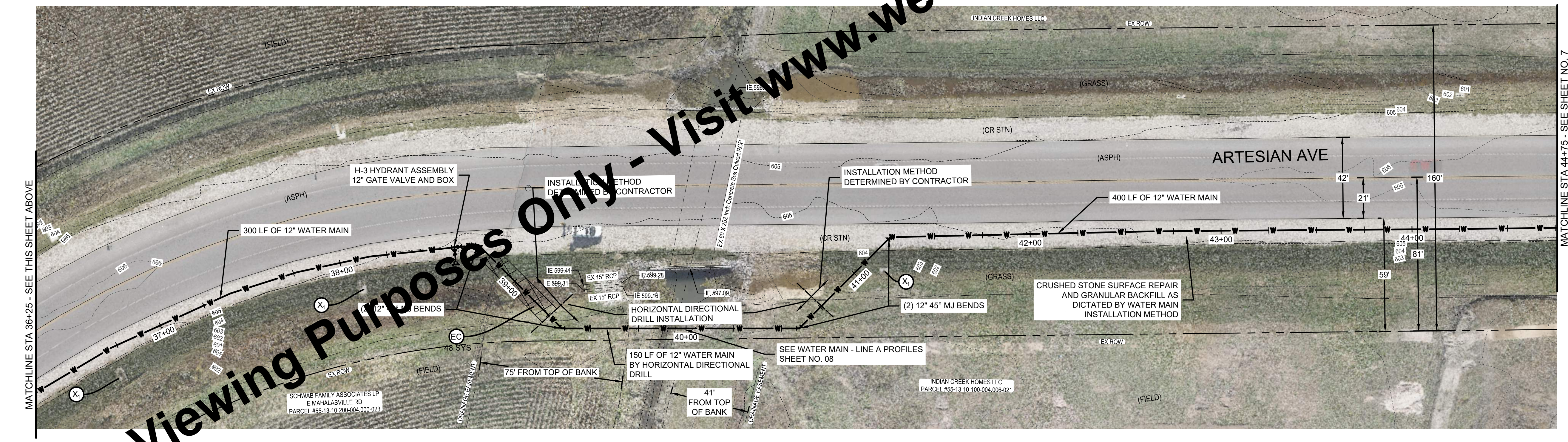
PLAN - LINE A
SCALE: 1" = 30'



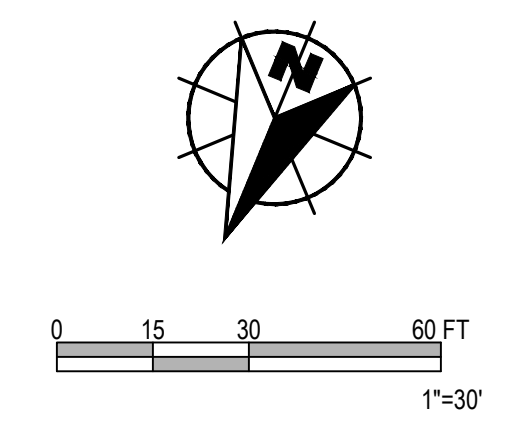
NOTES:
1. WATER MAIN PIPE MATERIAL IS TO BE SELECTED BY CONTRACTOR. HDPE PIPE SHALL BE 14" IF SELECTED

KEYED NOTES

- D PAVEMENT REPAIR
- H_c CURB RAMP REPAIR
- X POTENTIAL UTILITY CONFLICT FIELD VERIFY PRIOR TO CONSTRUCTION.
- X₁ ROAD UNDER DRAIN OUTLET. CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION PRIOR TO CONSTRUCTION.
- EC SEED AND EROSION CONTROL BLANKET



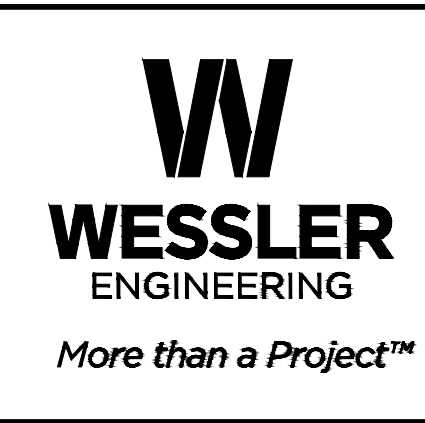
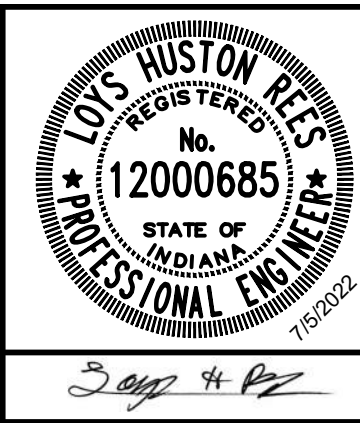
PLAN - LINE A
SCALE: 1" = 30'



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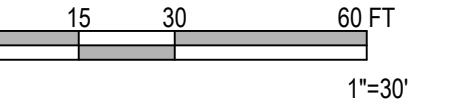
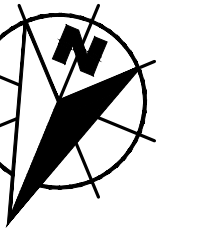


EAST SERVICE AREA WATER AND SEWER EXTENSIONS

CITY OF MARTINSVILLE, INDIANA

WATER MAIN - LINE A

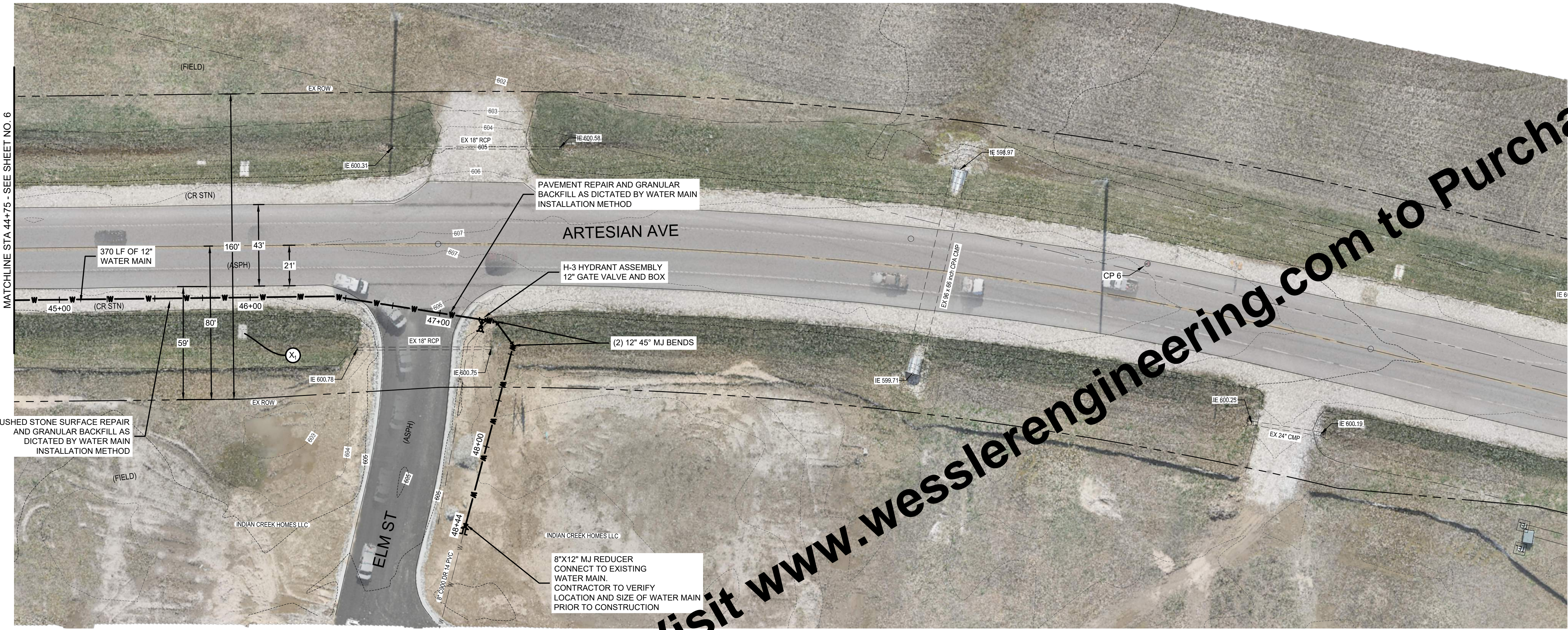
SHEET NO.	06
TOTAL SHEETS	28



NOTES:
 1. WATER MAIN PIPE MATERIAL IS TO BE SELECTED BY CONTRACTOR. HDPE PIPE SHALL BE 14" IF SELECTED

KEYED NOTES

- D PAVEMENT REPAIR
- H_c CURB RAMP REPAIR
- X POTENTIAL UTILITY CONFLICT FIELD VERIFY PRIOR TO CONSTRUCTION.
- X_i ROAD UNDER DRAIN OUTLET. CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION PRIOR TO CONSTRUCTION.

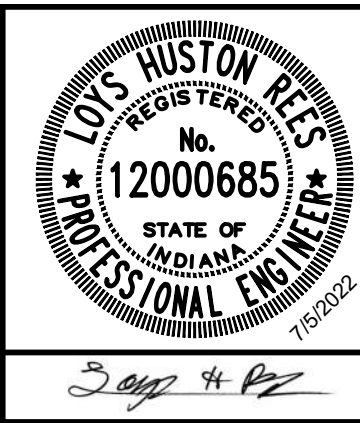


PLAN - LINE A
 SCALE: 1" = 30'

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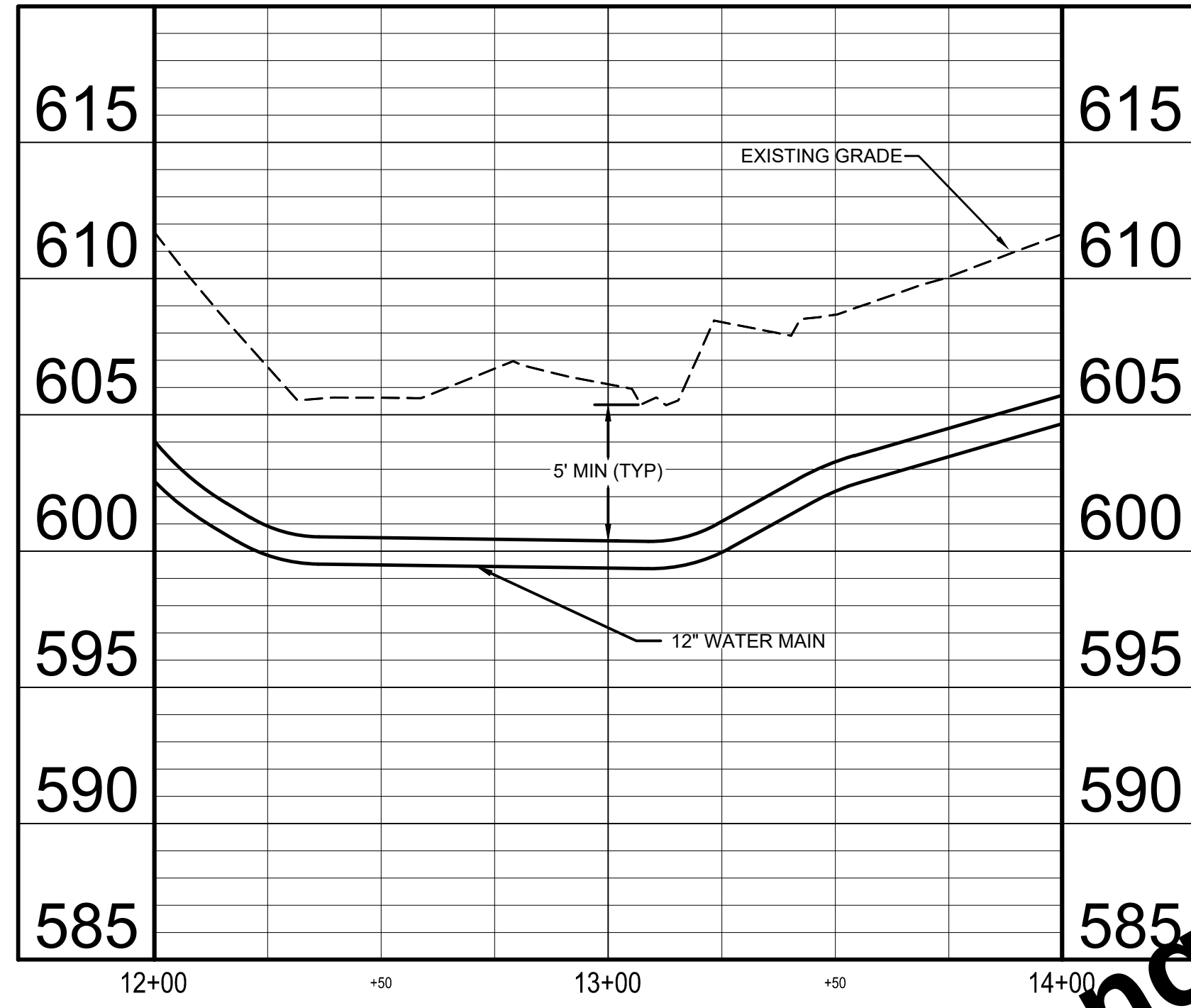


EAST SERVICE AREA WATER AND SEWER EXTENSIONS
CITY OF MARTINSVILLE, INDIANA
WATER MAIN - LINE A

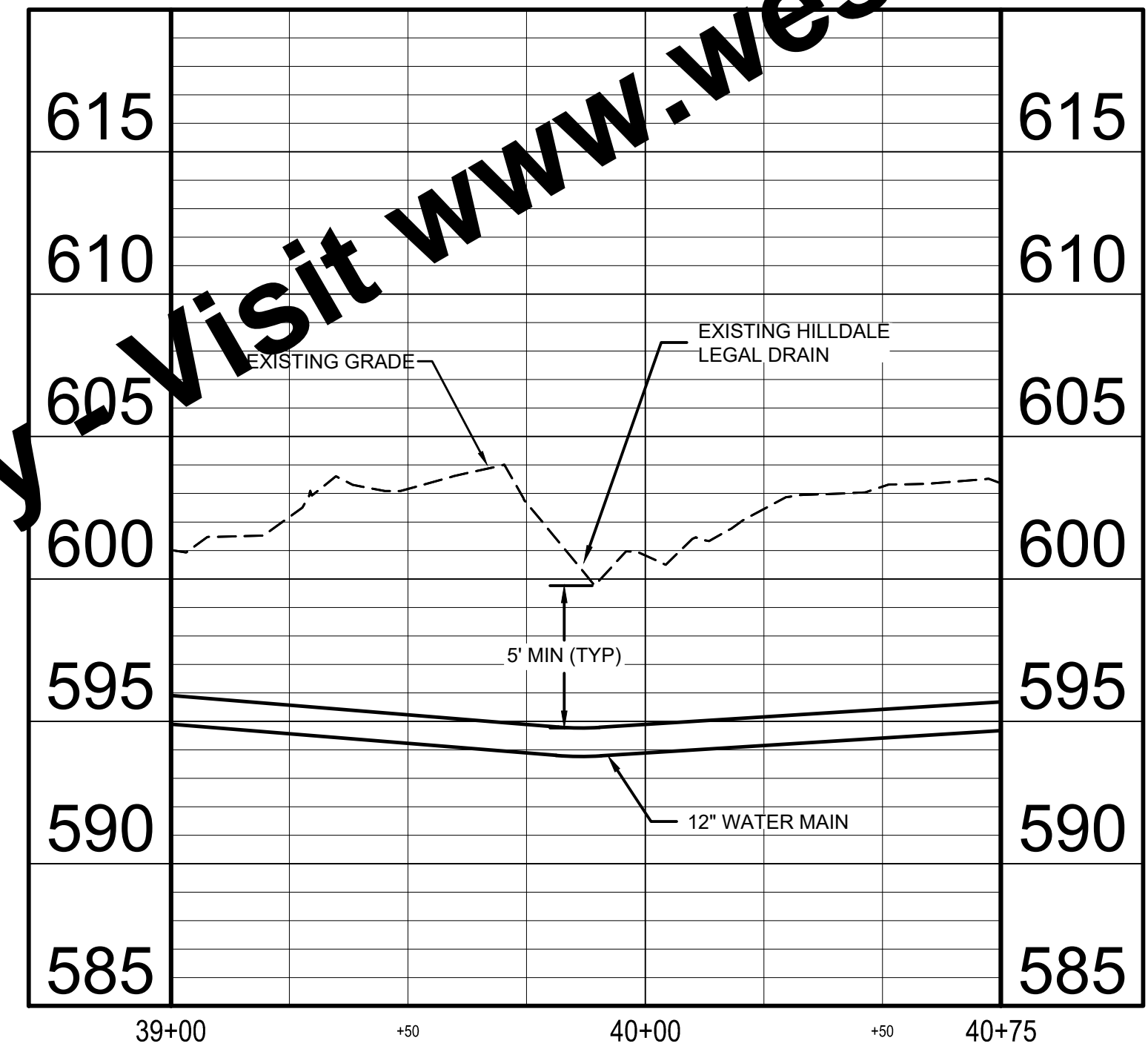
SHEET NO.	07
TOTAL SHEETS	28

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PROFILE - LINE A WATER MAIN STA 12+00 - 14+00
 HORIZ SCALE: 1" = 30'
 VERT SCALE: 1" = 5'



PROFILE - LINE A WATER MAIN STA 39+00 - 40+75
 HORIZ SCALE: 1" = 30'
 VERT SCALE: 1" = 5'

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
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	APPROVED BY	LHR				
	ISSUE DATE					
	JULY 2022					
	PROJECT NUMBER					
	245521-04-001					

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 STATE OF INDIANA
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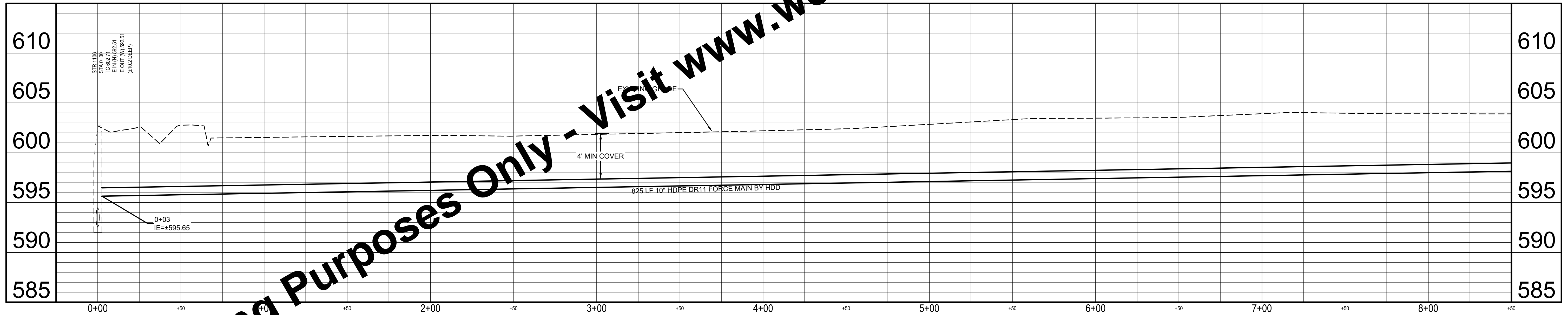
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EAST SERVICE AREA WATER AND SEWER EXTENSIONS CITY OF MARTINSVILLE, INDIANA WATER MAIN - LINE A PROFILES

SHEET NO.	08
TOTAL SHEETS	28




PLAN - LINE A
SCALE: 1" = 30'

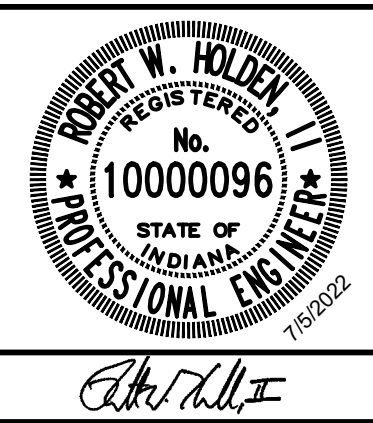


PROFILE - LINE A
HORIZ SCALE: 1" = 30'
VERT SCALE: 1" = 5'

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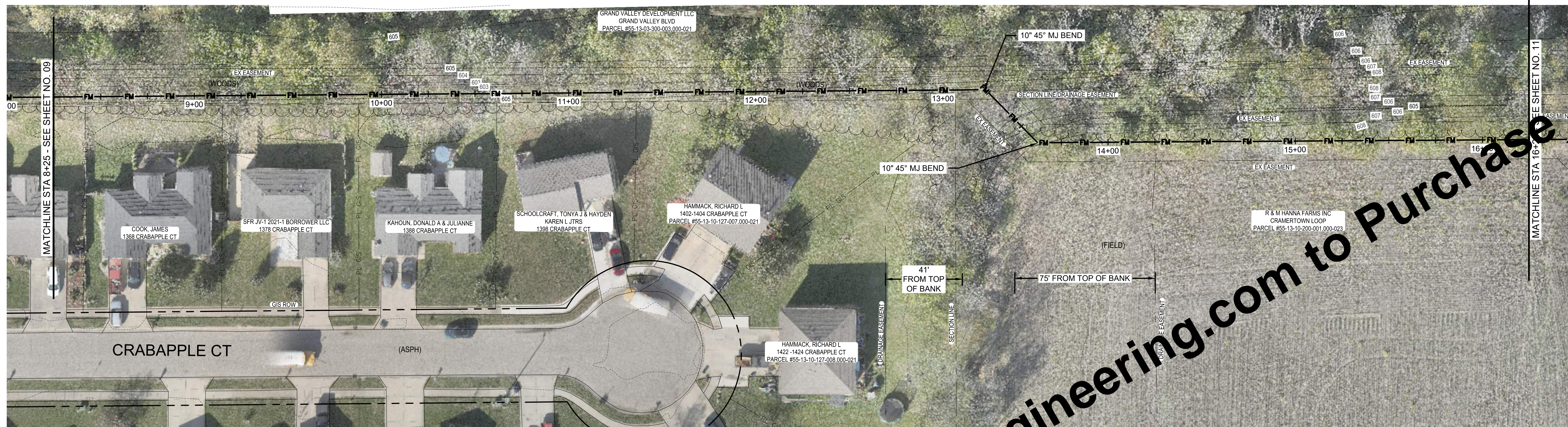


EAST SERVICE AREA WATER AND SEWER EXTENSIONS

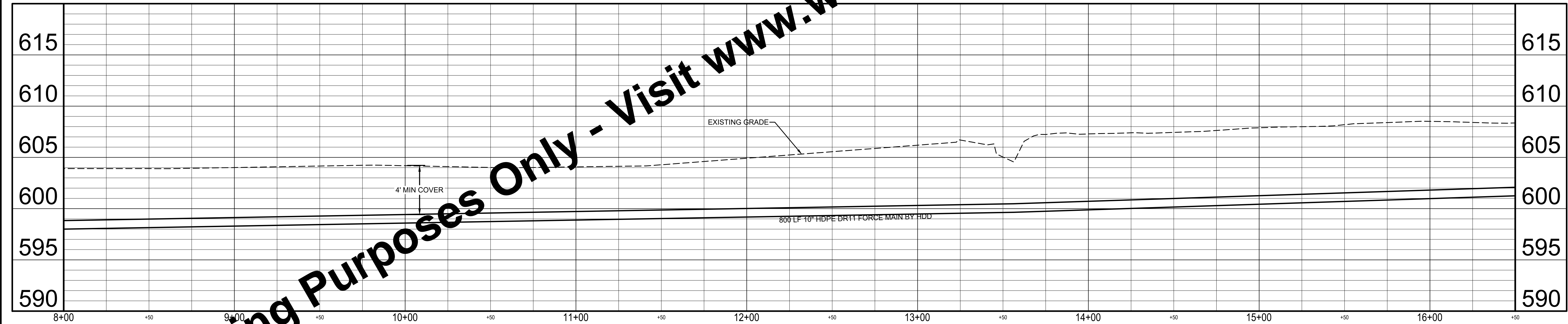
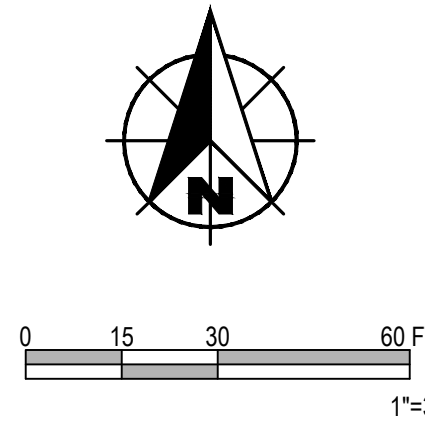
CITY OF MARTINSVILLE, INDIANA

SANITARY FORCE MAIN - LINE A

SHEET NO.	09
TOTAL SHEETS	28




PLAN - LINE A
SCALE: 1" = 30'

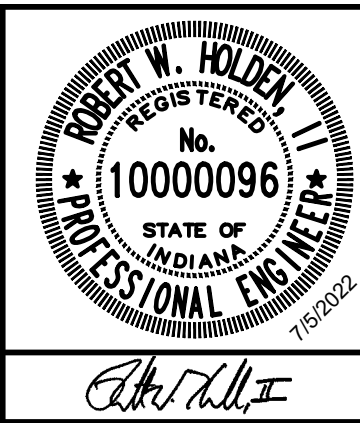


PROFILE - LINE A
HORIZ SCALE: 1" = 30'
VERT SCALE: 1" = 5'

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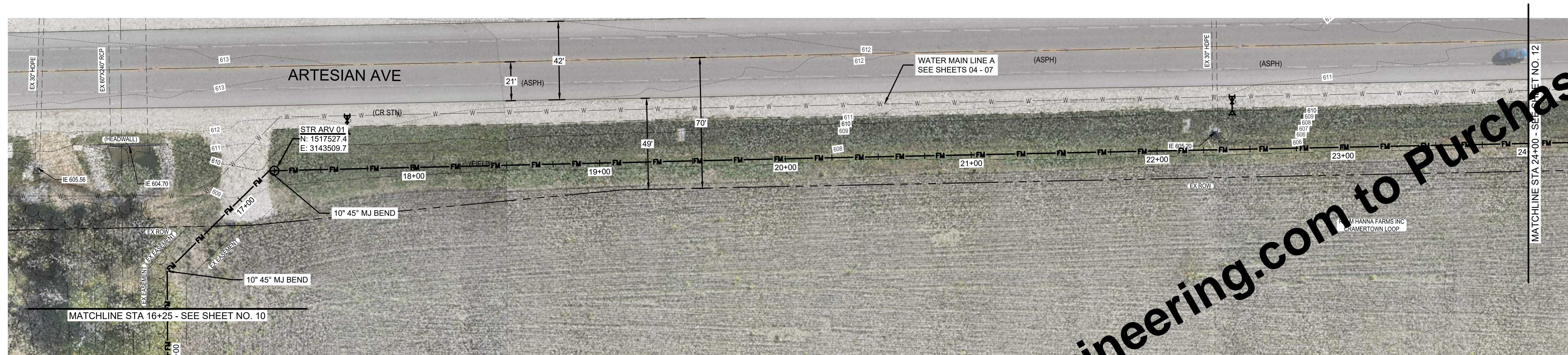
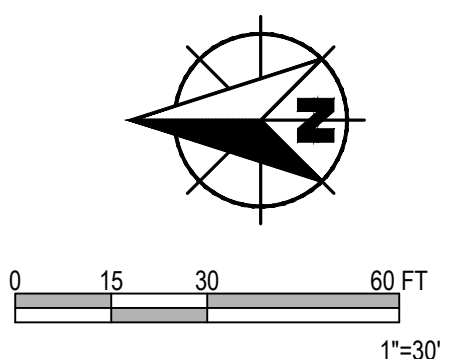
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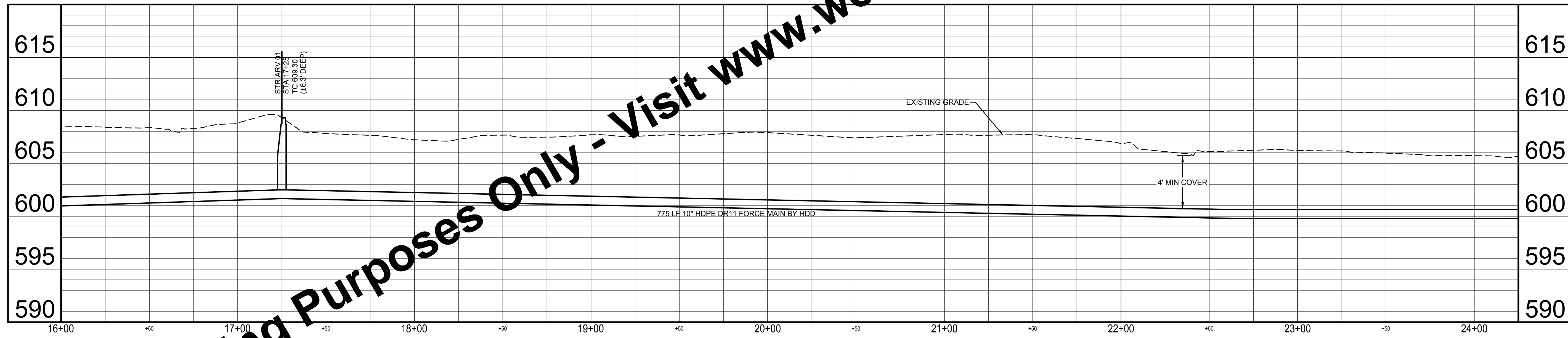


EAST SERVICE AREA WATER AND SEWER EXTENSIONS
CITY OF MARTINSVILLE, INDIANA
SANITARY FORCE MAIN - LINE A

SHEET NO.	10
TOTAL SHEETS	28




PLAN - LINE A
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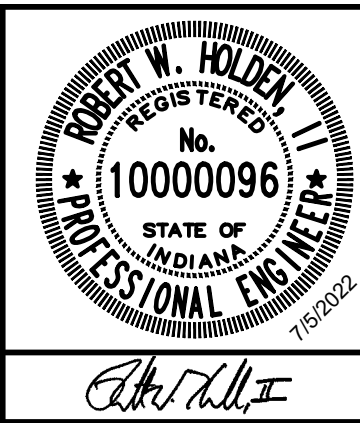


PROFILE - LINE A
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VERT SCALE: 1" = 5'

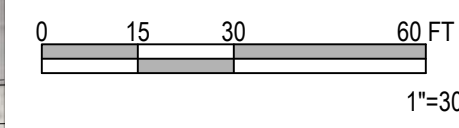
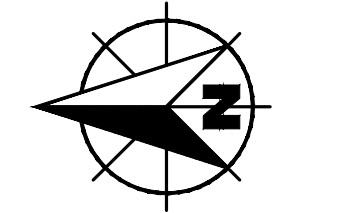
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SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	AJP				
	APPROVED BY	RWH				
	ISSUE DATE	JULY 2022				
	PROJECT NUMBER	245521-04-001				



EAST SERVICE AREA WATER AND SEWER EXTENSIONS CITY OF MARTINSVILLE, INDIANA SANITARY FORCE MAIN - LINE A	SHEET NO. 11 TOTAL SHEETS 28
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PLAN - LINE A
SCALE: 1" = 30'

KEYED NOTES ○
F_S SILT FENCE

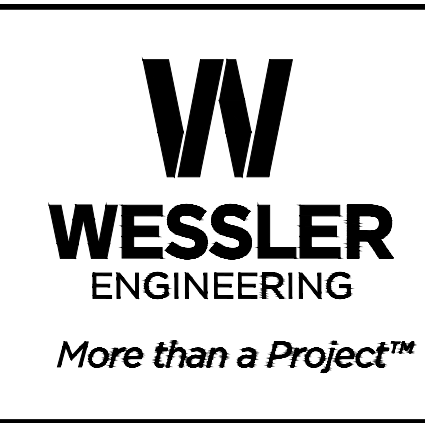
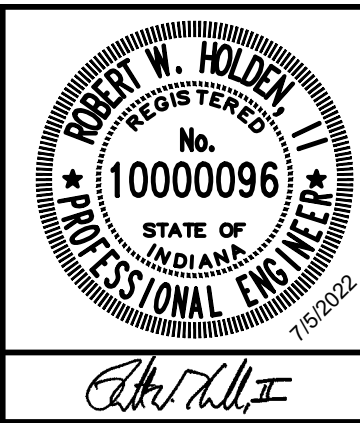


PROFILE - LINE A
HORIZ SCALE: 1" = 30'
VERT SCALE: 1" = 5'

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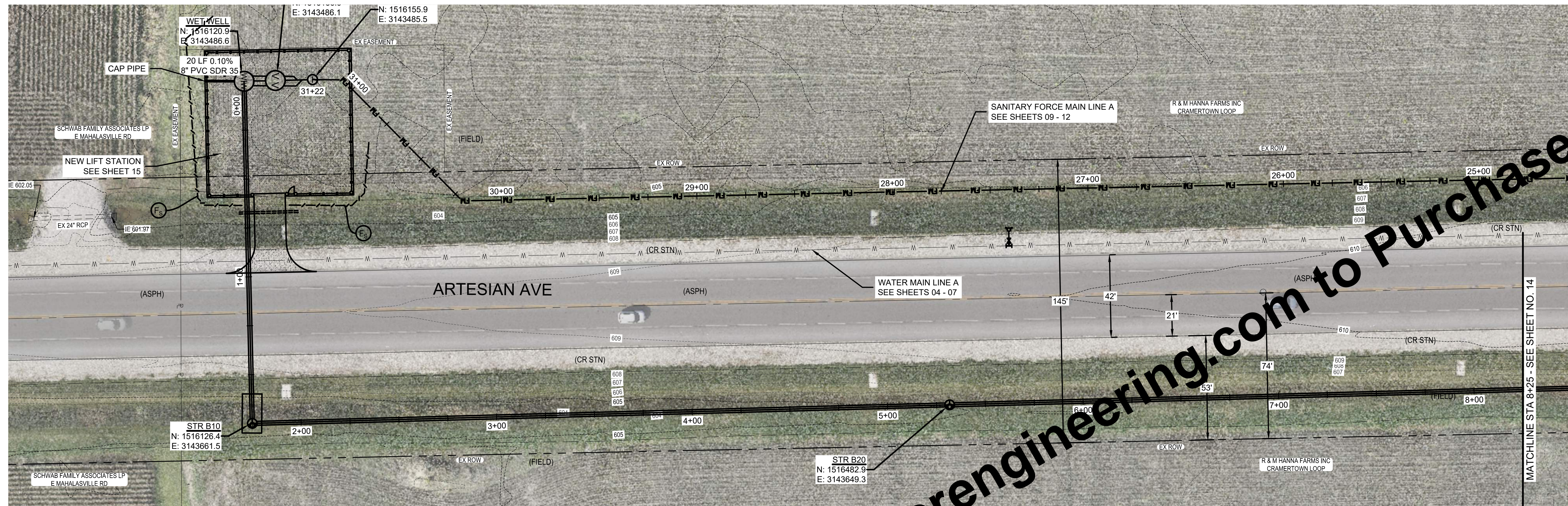
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	ISSUE DATE	JULY 2022				
	PROJECT NUMBER	245521-04-001				



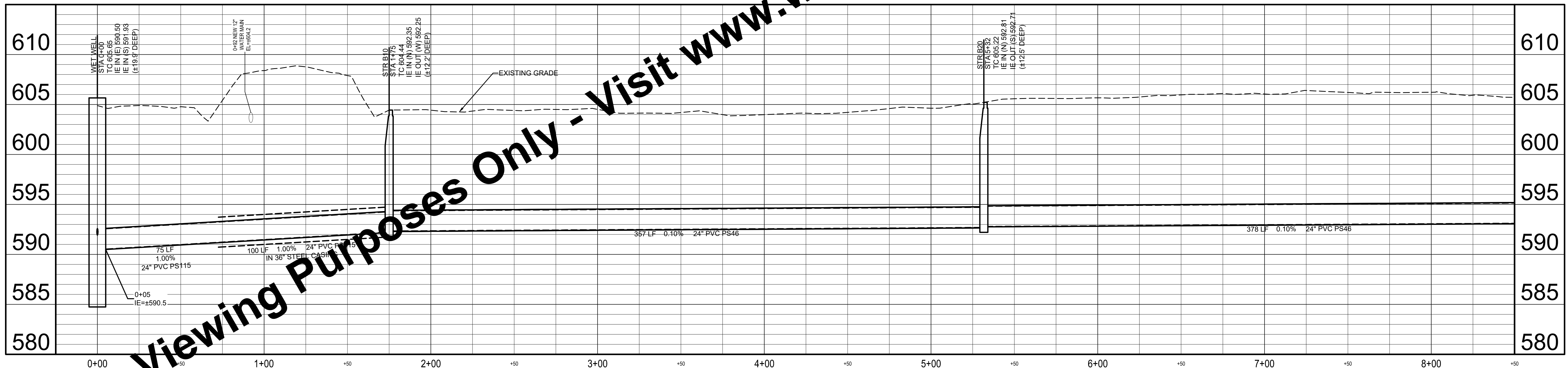
EAST SERVICE AREA WATER AND SEWER EXTENSIONS
CITY OF MARTINSVILLE, INDIANA
SANITARY FORCE MAIN - LINE A

SHEET NO.	12
TOTAL SHEETS	28



PLAN - LINE B
SCALE: 1" = 30'

NOTE:
1. ALL PROPOSED MANHOLES ARE TYPE 1. SEE TYPE 1 MANHOLE DETAIL ON SHEET 22

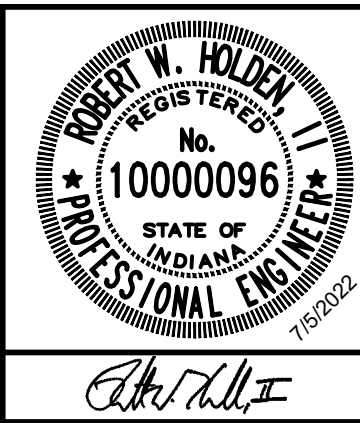


PROFILE - LINE B
HORIZ SCALE: 1" = 30'
VERT SCALE: 1" = 5'

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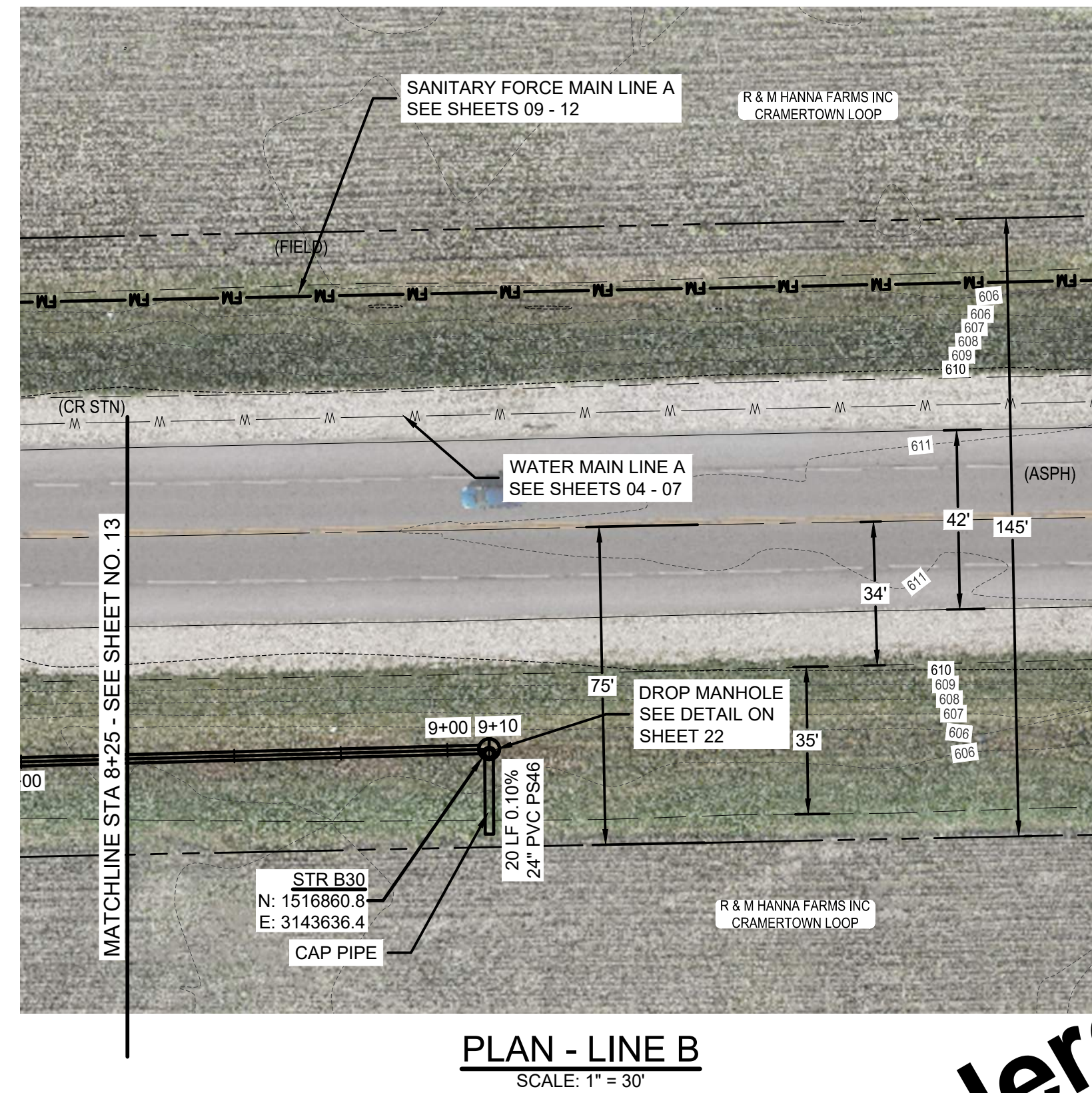
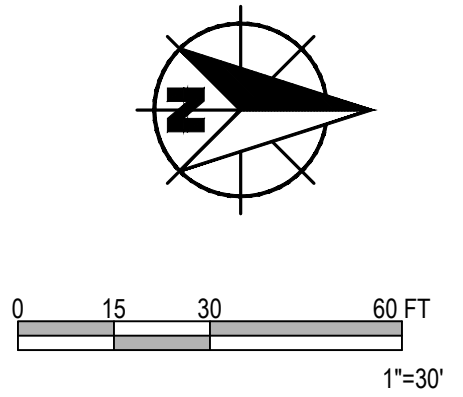
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	PROJECT NUMBER	245521-04-001				

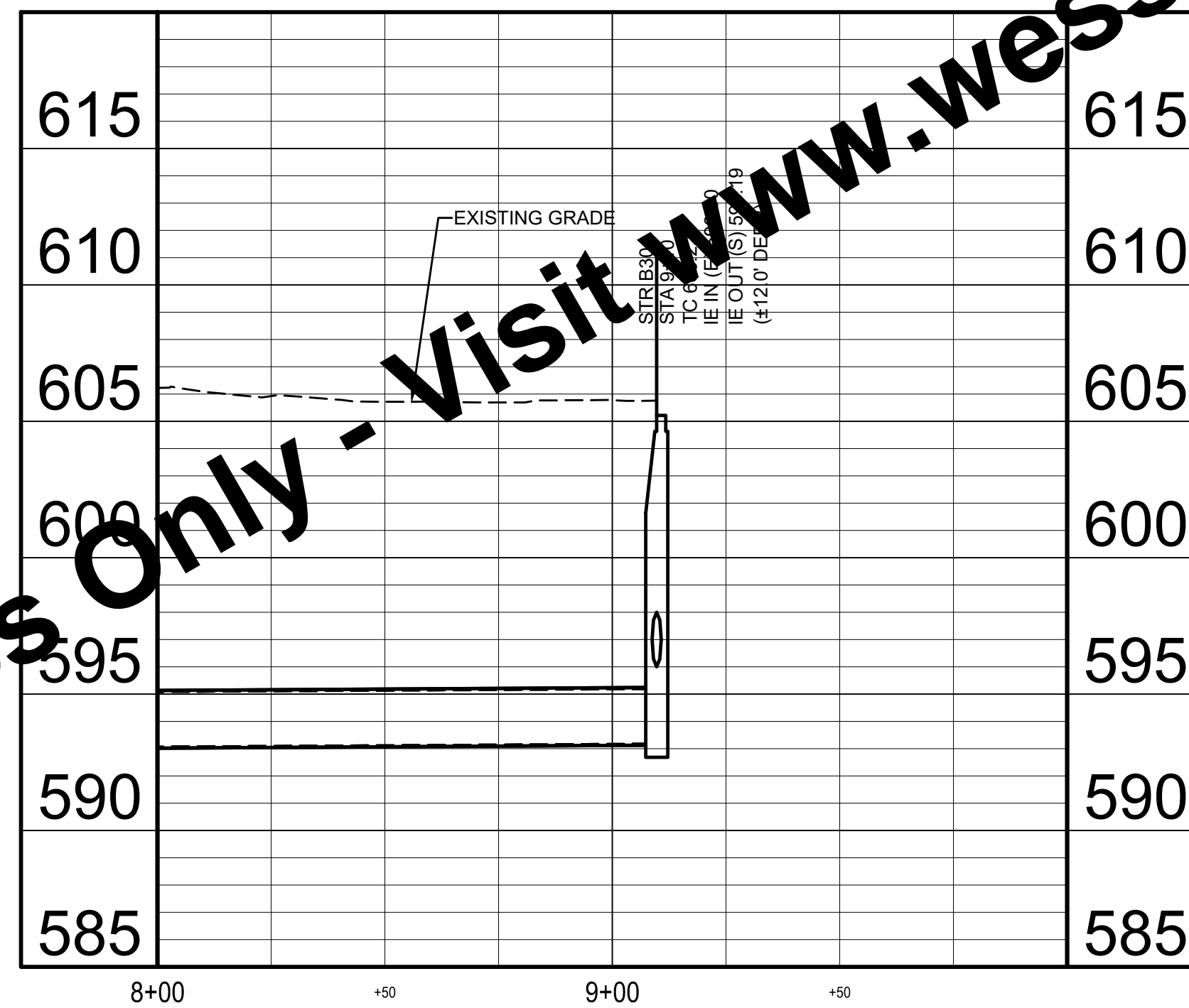


EAST SERVICE AREA WATER AND SEWER EXTENSIONS
CITY OF MARTINSVILLE, INDIANA
SANITARY SEWER - LINE B

SHEET NO.	13
TOTAL SHEETS	28




PLAN - LINE B
SCALE: 1" = 30'

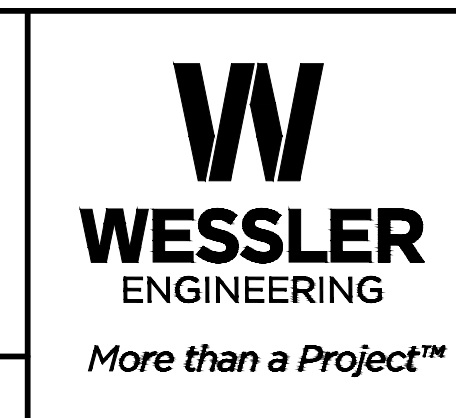
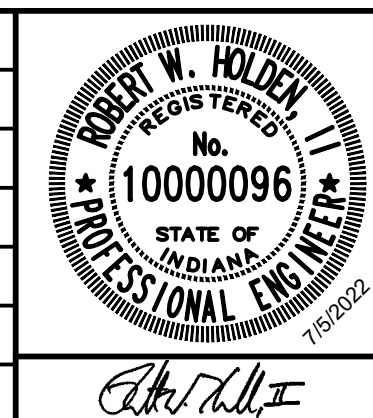


PROFILE - LINE B
HORIZ SCALE: 1" = 30'
VERT SCALE: 1" = 5'

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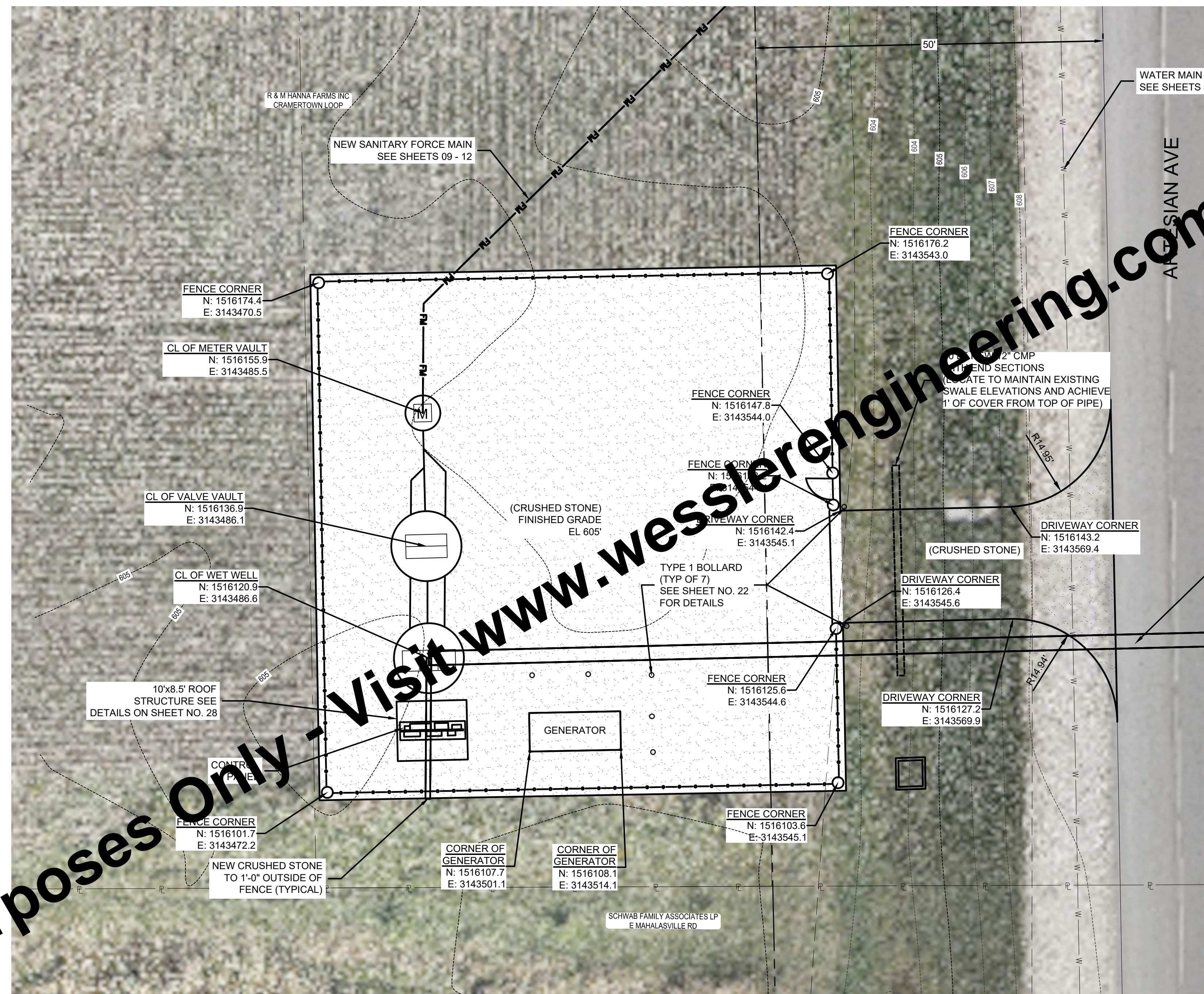
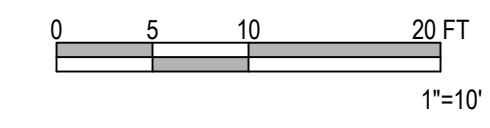
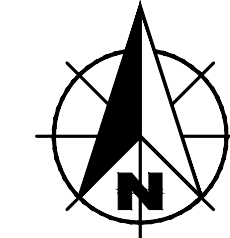
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	CHECKED BY	AJP				
	APPROVED BY	RWH				
	ISSUE DATE					
	JULY 2022					
	PROJECT NUMBER					
	245521-04-001					



EAST SERVICE AREA WATER AND SEWER EXTENSIONS
CITY OF MARTINSVILLE, INDIANA
SANITARY SEWER - LINE B

SHEET NO.	14
TOTAL SHEETS	28

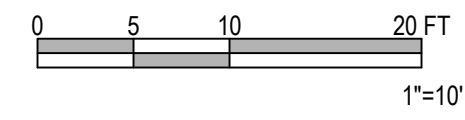
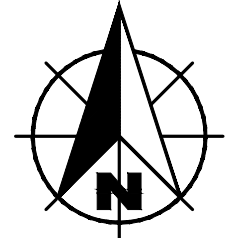


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LIFT STATION SITE PLAN
SCALE: 1" = 10'

Drawing: J:\Martinsville\Projects\24521-Martinsville-WW-Expansion\CADD\DWG\Sheets\24521-SH-NEW.dwg | Layout: 01 | Plotted: 07/05/22 @ 11:19:53 | LastSavedBy: lrevisl

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	CHECKED BY	AJP							CITY OF MARTINSVILLE, INDIANA	15
	APPROVED BY	RWH							NEW LIFT STATION SITE PLAN	TOTAL SHEETS
	ISSUE DATE	JULY 2022								28
	PROJECT NUMBER	245521-04-001								



GENERAL NOTES:

1. SEE SIZING AND ONE LINE DIAGRAM ON SHEET 26.



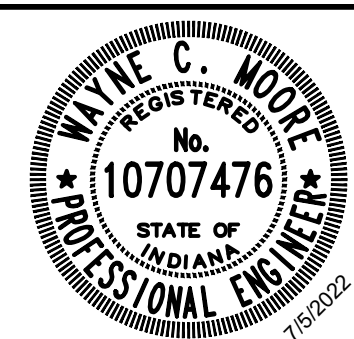
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LIFT STATION ELECTRICAL SITE PLAN

SCALE: 1" = 10'

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	ISSUE DATE					
	JULY 2022					
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	245521-04-001					



EAST SERVICE AREA WATER AND SEWER EXTENSIONS

CITY OF MARTINSVILLE, INDIANA

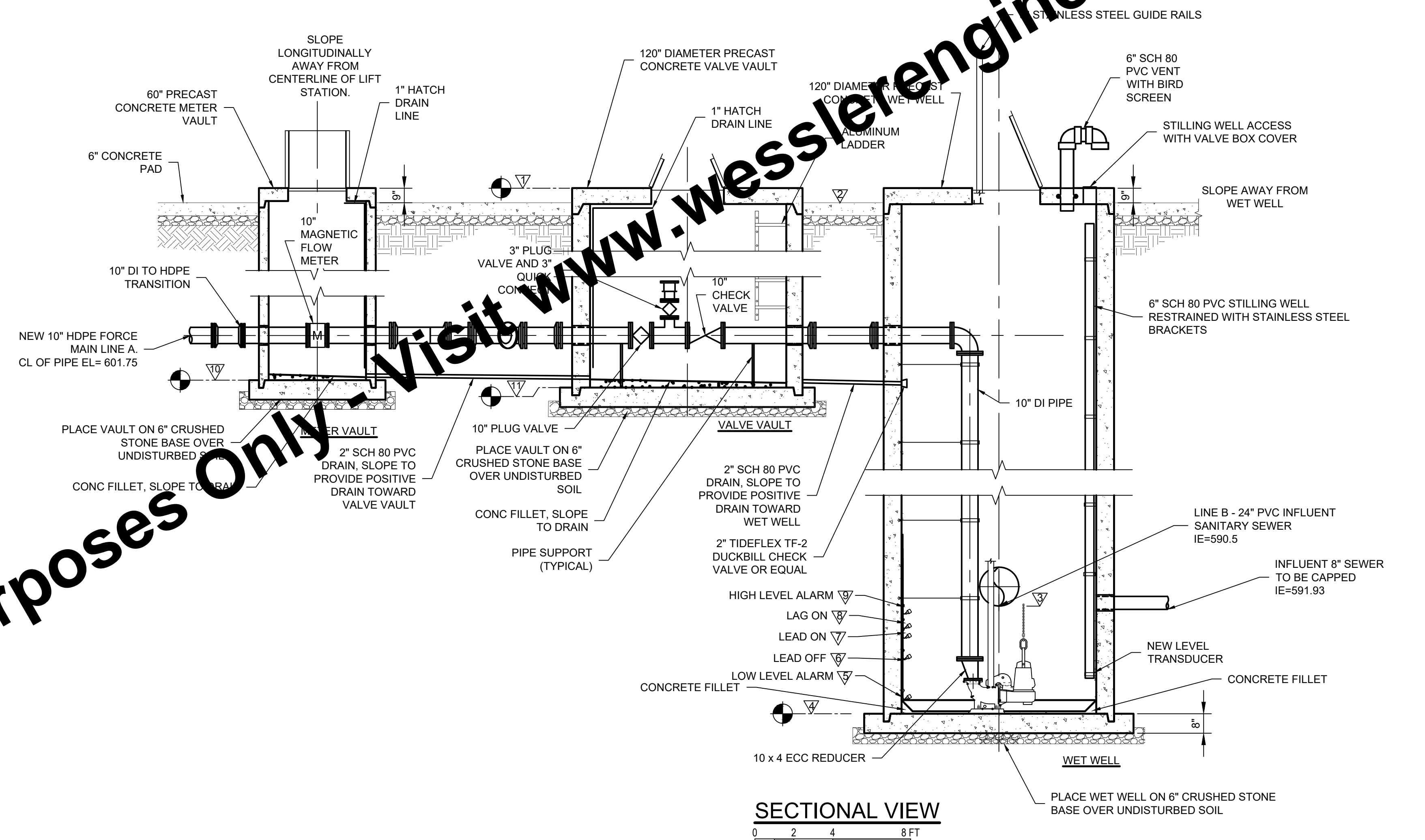
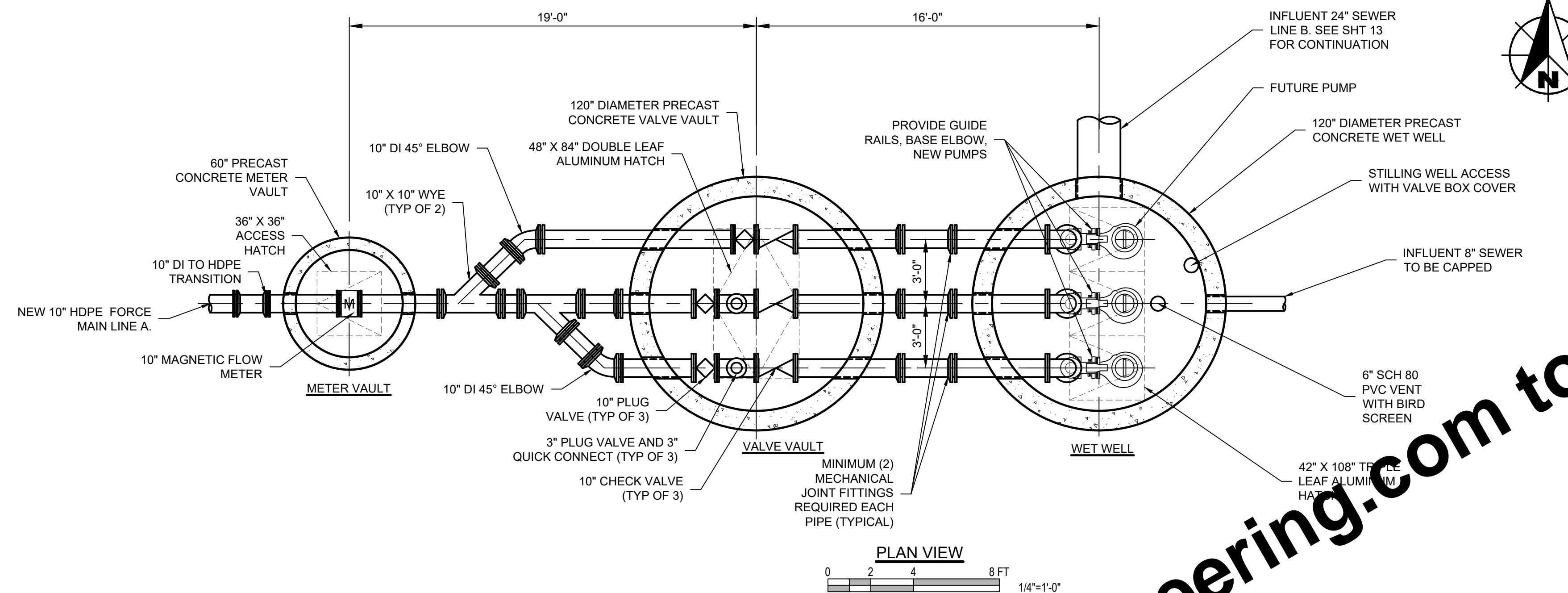
NEW LIFT STATION - ELECTRICAL SITE PLAN

SHEET NO.

16

TOTAL SHEETS

28



LIFT STATION SCHEDULE		
MARK	DESCRIPTION	NEW LIFT STATION
1	TOP ELEVATION	605.65
2	FINISH GRADE	605.00
3	SEWER INVERT ELEVATION	590.50
4	BOTTOM ELEVATION	584.75
5	LOWER LEVEL ALARM	585.50
6	LEAD OFF	587.50
7	LEAD ON	589.00
8	LAG ON	589.50
9	HIGH LEVEL ALARM	590.00
10	BOTTOM OF METER VAULT	600.25
11	BOTTOM OF VALVE VAULT	599.87

NOTE:
1. ALL FORCE MAIN FITTINGS MUST BE DUCTILE IRON

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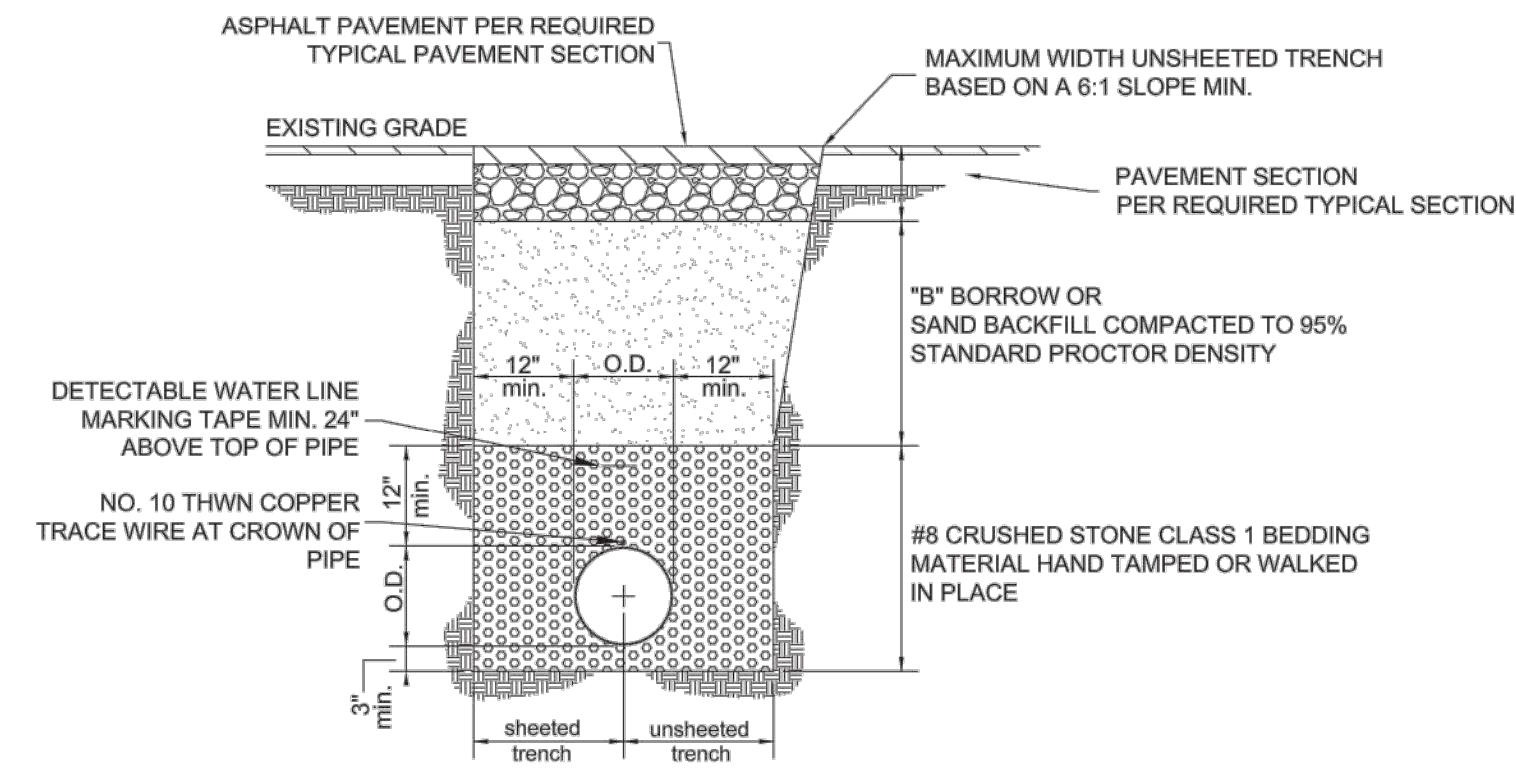
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BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	AJP				
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	PROJECT NUMBER	245521-04-001				

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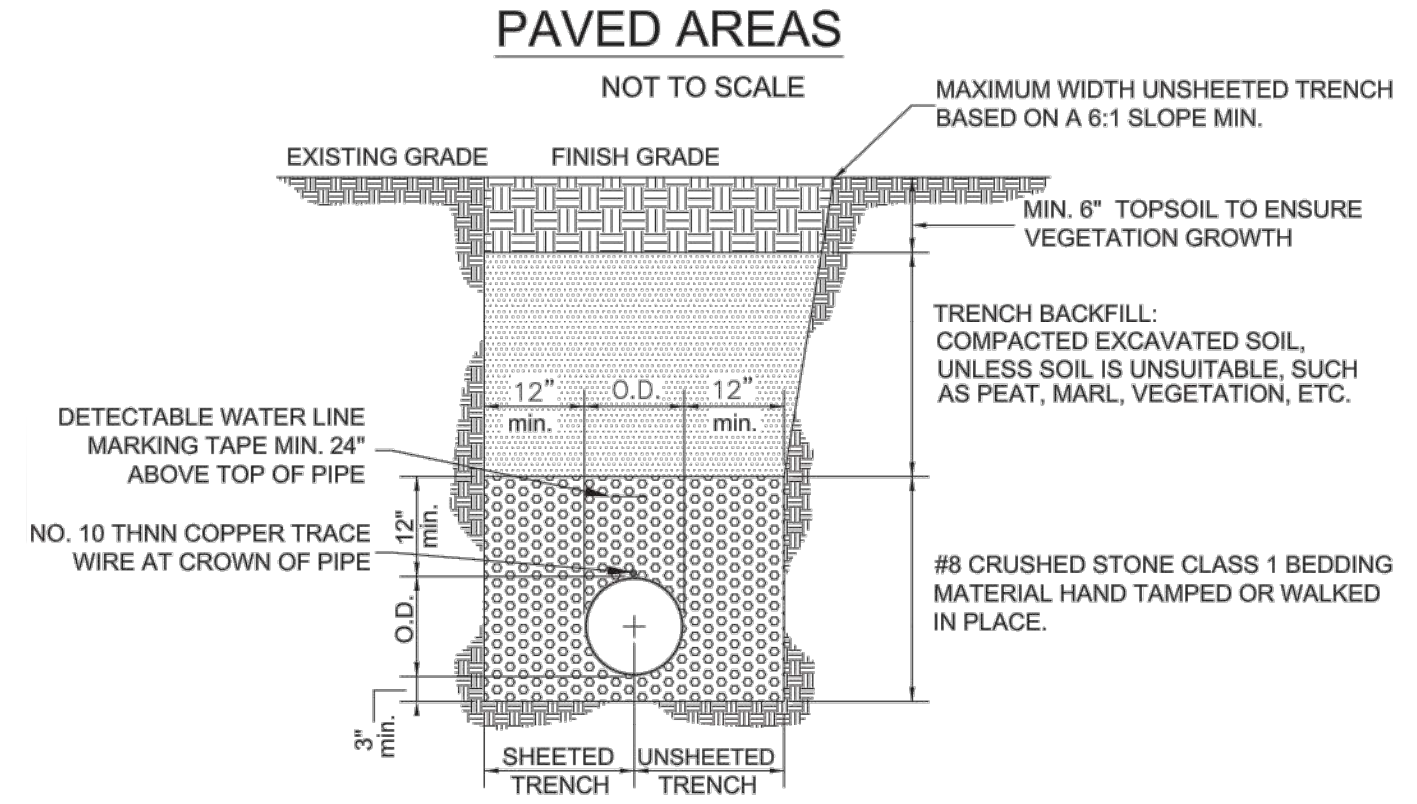
EAST SERVICE AREA WATER AND SEWER EXTENSIONS
CITY OF MARTINSVILLE, INDIANA
NEW LIFT STATION - PLAN AND SECTION

SHEET NO.	17
TOTAL SHEETS	28

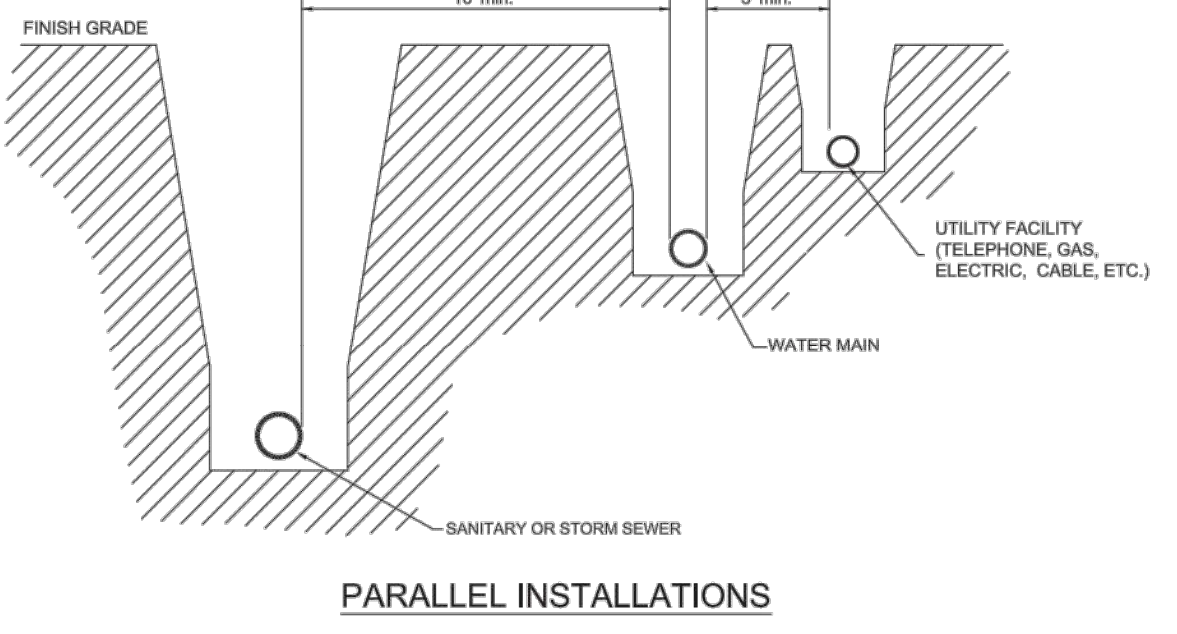
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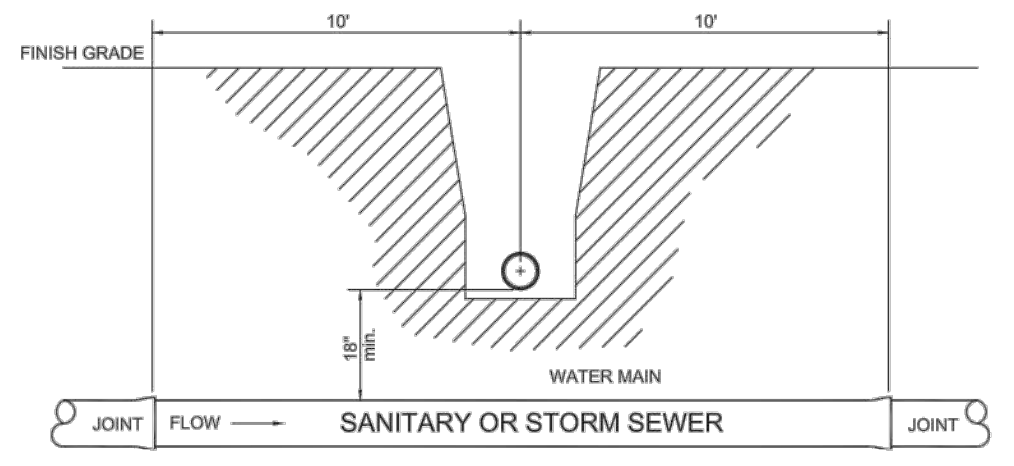
TYPICAL PIPE BEDDING FOR TRENCH IN PAVED AREAS



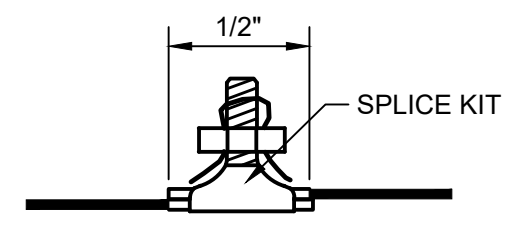
TYPICAL PIPE BEDDING FOR TRENCH IN GRASS AREAS



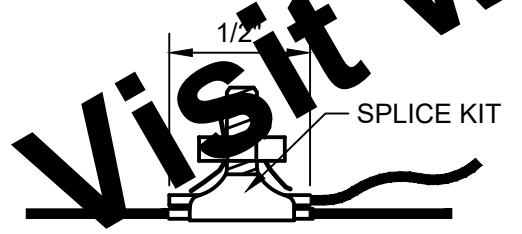
PARALLEL INSTALLATIONS



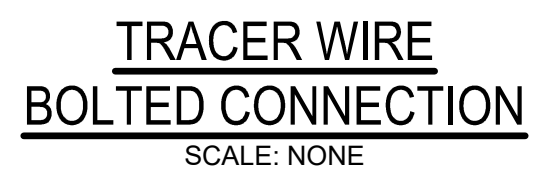
MINIMUM CROSSING & SEPARATION REQUIREMENTS FOR WATER & SANITARY OR STORM SEWER MAINS



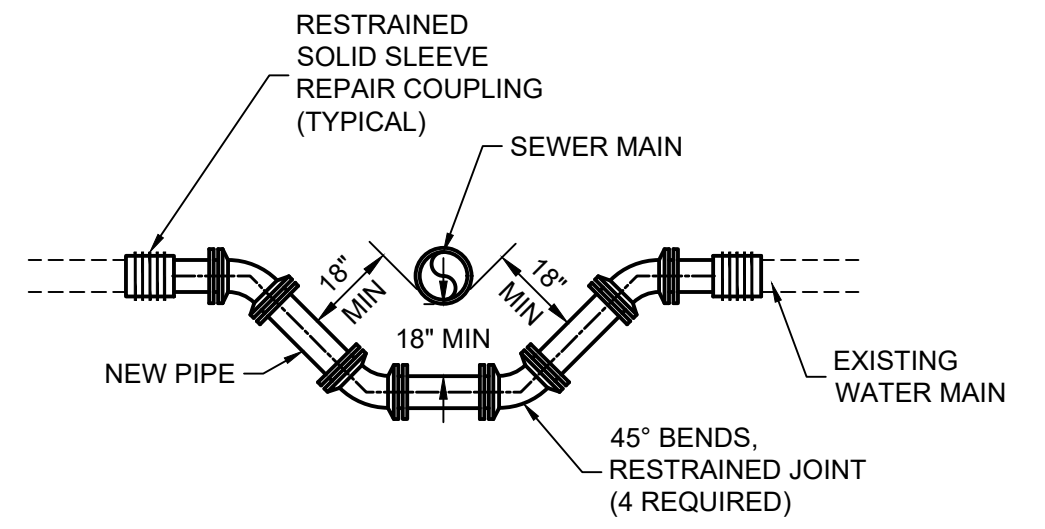
EXISTING CONNECTION



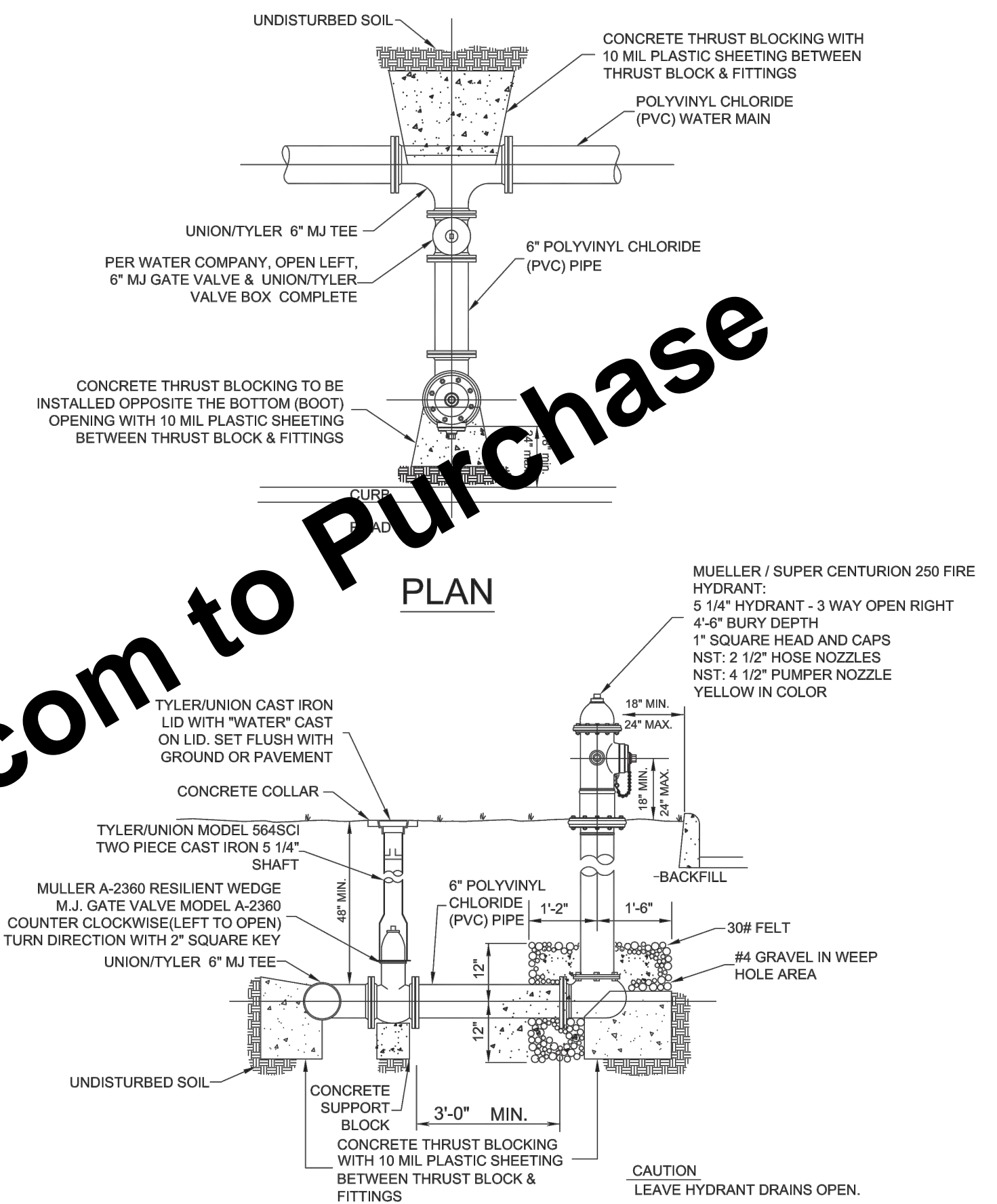
BRANCH CONNECTION



TRACER WIRE BOLTED CONNECTION



WATER MAIN LOWERING

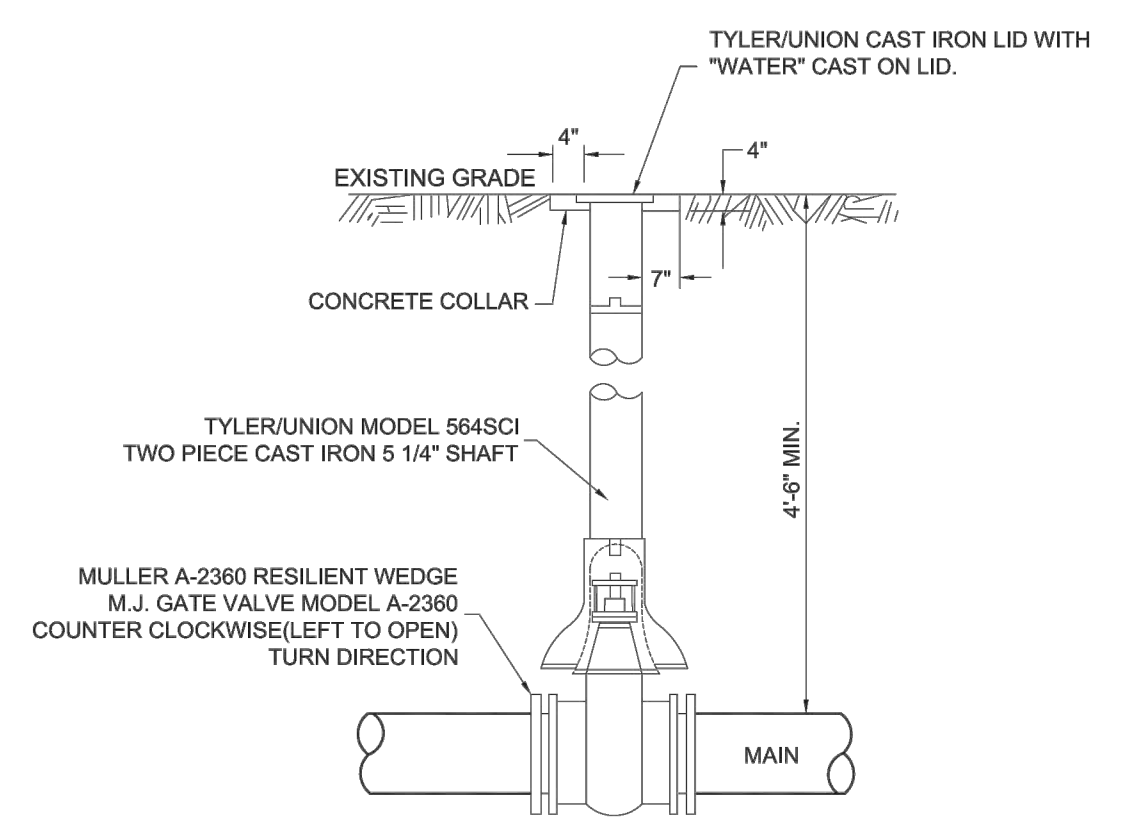


PLAN

SECTION

FIRE HYDRANTS SHALL BE INSTALLED BETWEEN CURB AND FACE OF SIDEWALK EXCEPT WHERE CONDITIONS AND/OR GOVERNING ROADWAY AUTHORITY'S REGULATIONS PROHIBIT.

TYPICAL FIRE HYDRANT ASSEMBLY



TYPICAL GATE VALVE & VALVE BOX

Joint Restraint Table				
For Laying Condition 5				
FEET OF RESTRAINED PIPE @ 150 PSI ON EACH SIDE OF FITTING				
FITTING TYPE	WATER MAIN SIZE			
	6 INCH	8 INCH	12 INCH	14 INCH
11 1/4°	2	3	4	4
22 1/2°	4	5	7	7
45°	8	9	13	15
90°	17	22	31	36
11 1/4°	5	6	8	9
22 1/2°	9	11	16	18
45°	18	23	33	38
90°	43	55	79	91
MAIN SIZE x 6"	--	23	57	72
MAIN SIZE x 8"	--	--	43	60
MAIN SIZE x 10"	--	--	--	--
MAIN SIZE x 12"	--	--	--	24
MAIN SIZE x 14"	--	--	--	--
MAIN SIZE x 16"	--	--	--	--
MAIN SIZE x 18"	--	--	--	--
MAIN SIZE x 20"	--	--	--	--
MAIN SIZE x 24"	--	--	--	--
TEE OUTLET	13	24	48	59
VALVE OR PLUG	43	55	79	91
DEAD END	43	55	79	91

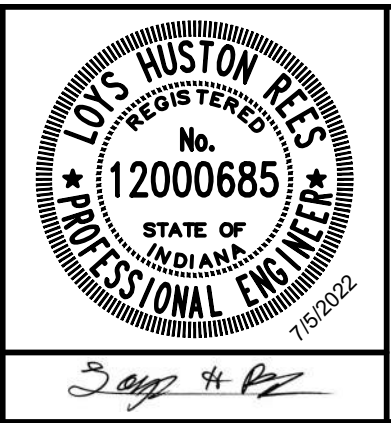
PIPE SIZE	COVERING AREA OF CONCRETE COLLAR	WIDTH MINIMUM
	18 SF	4'-3"

HDPE PIPE TRANSITION

WATER MAIN LOWERING

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	PROJECT NUMBER	245521-04-001				



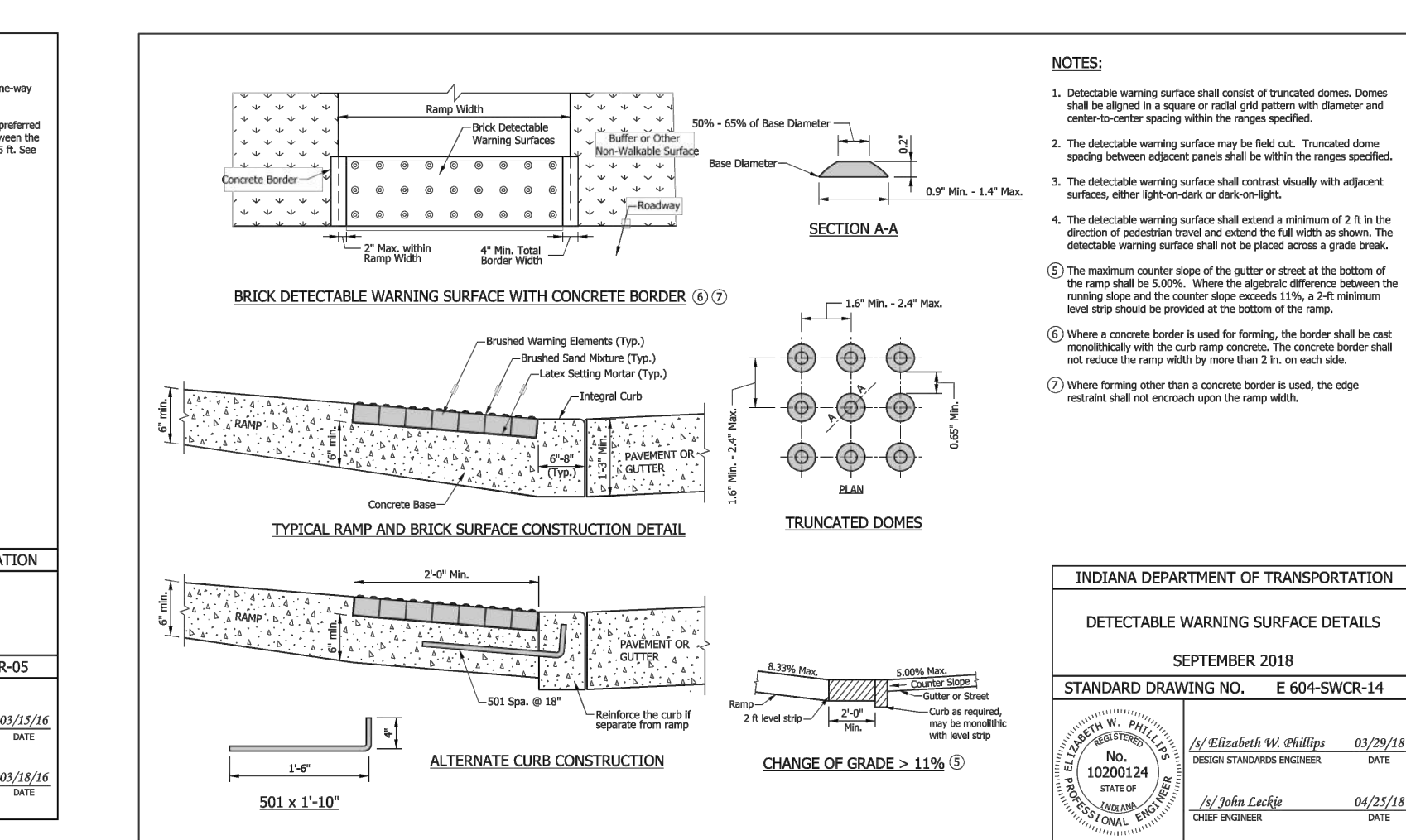
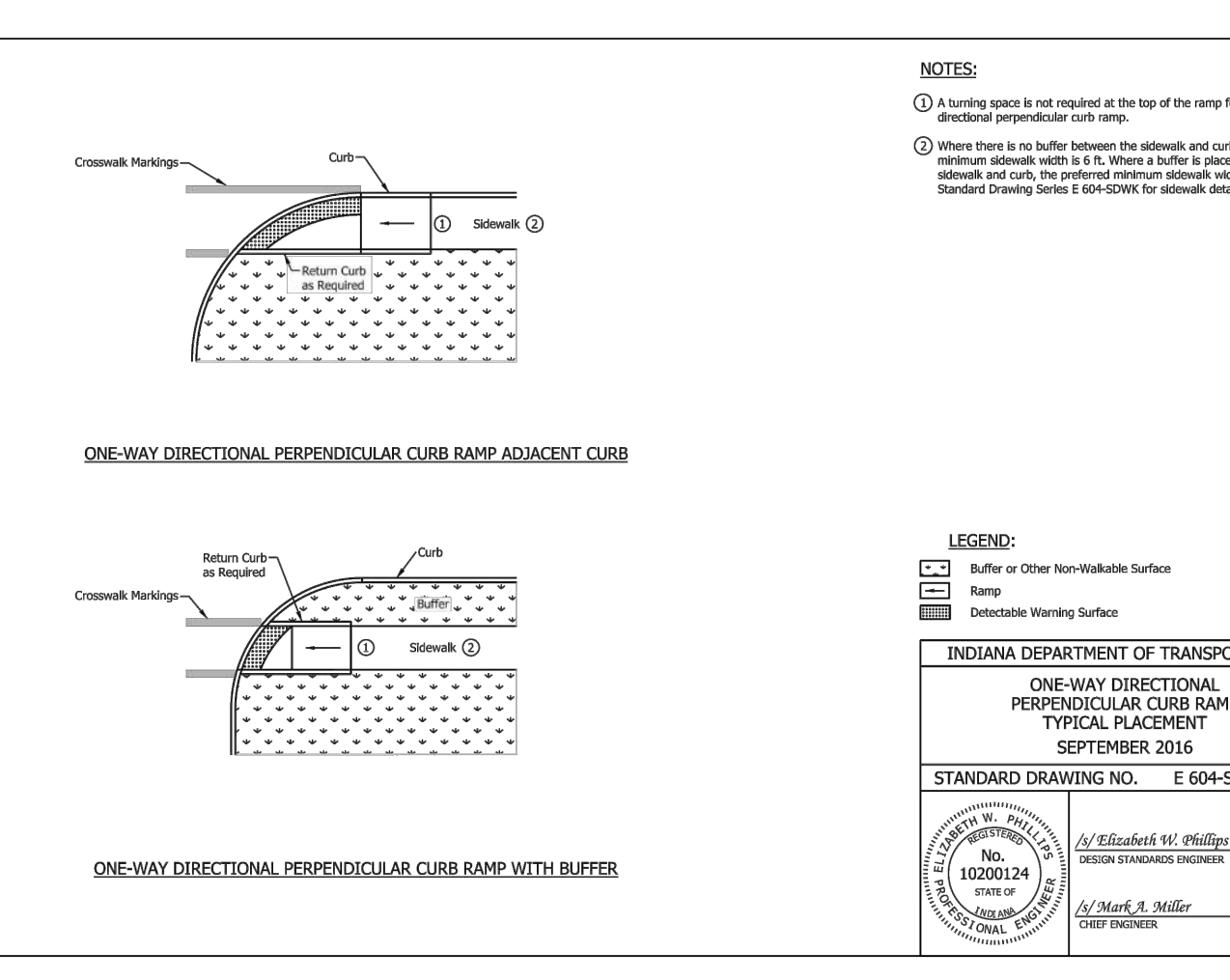
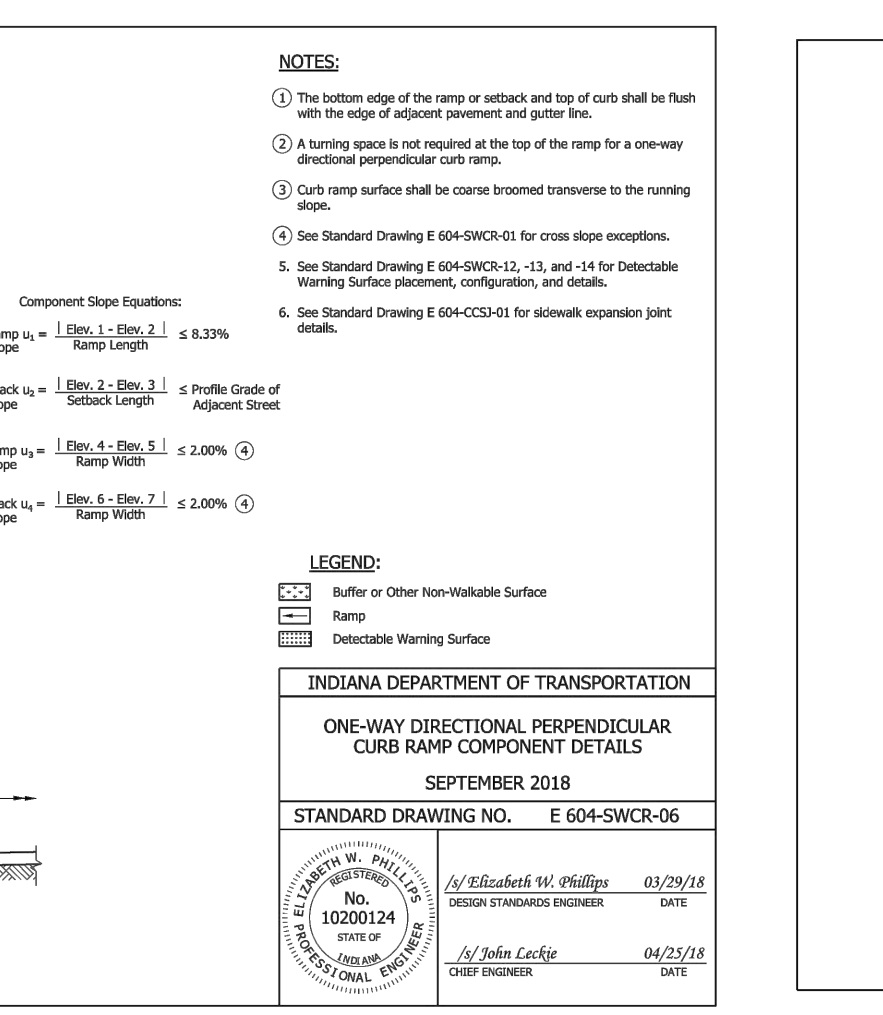
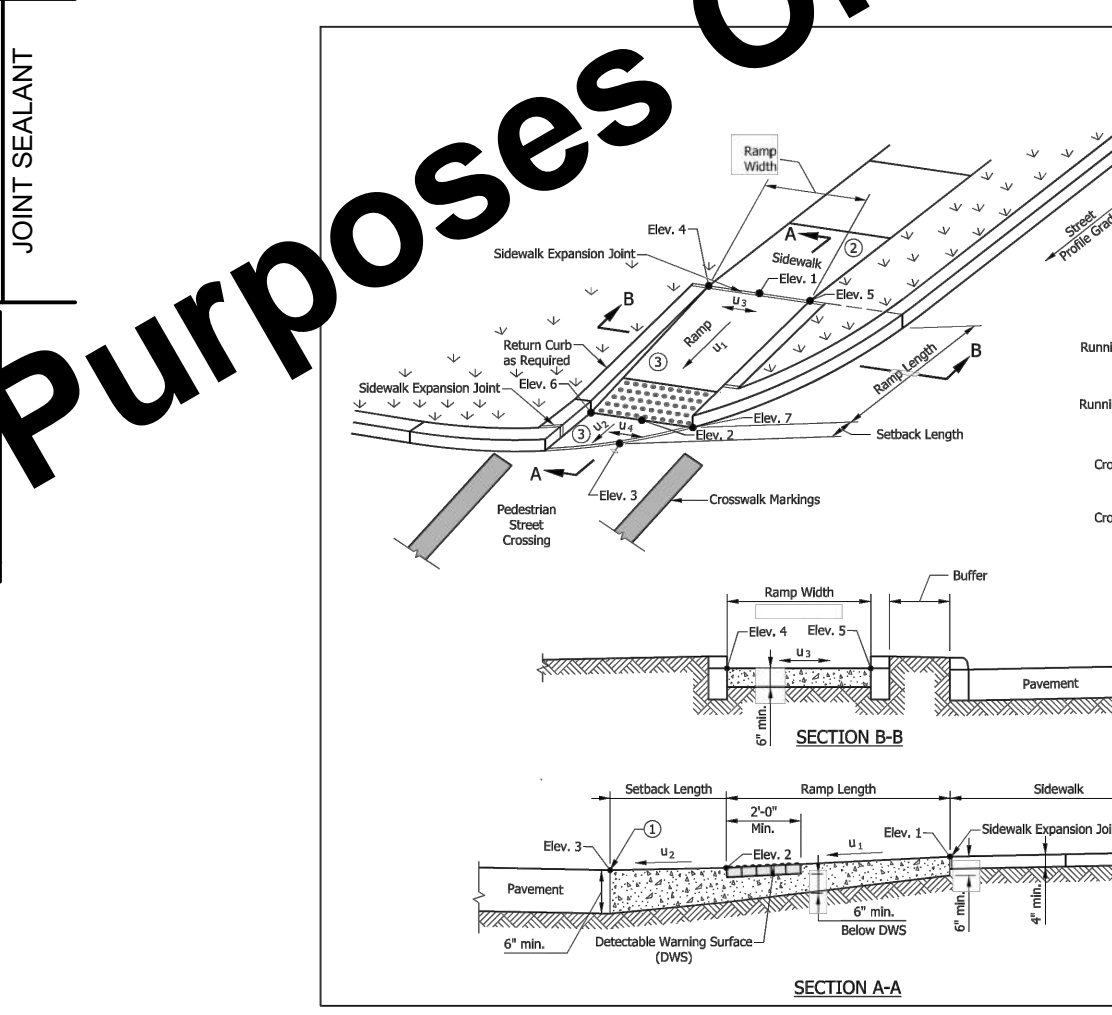
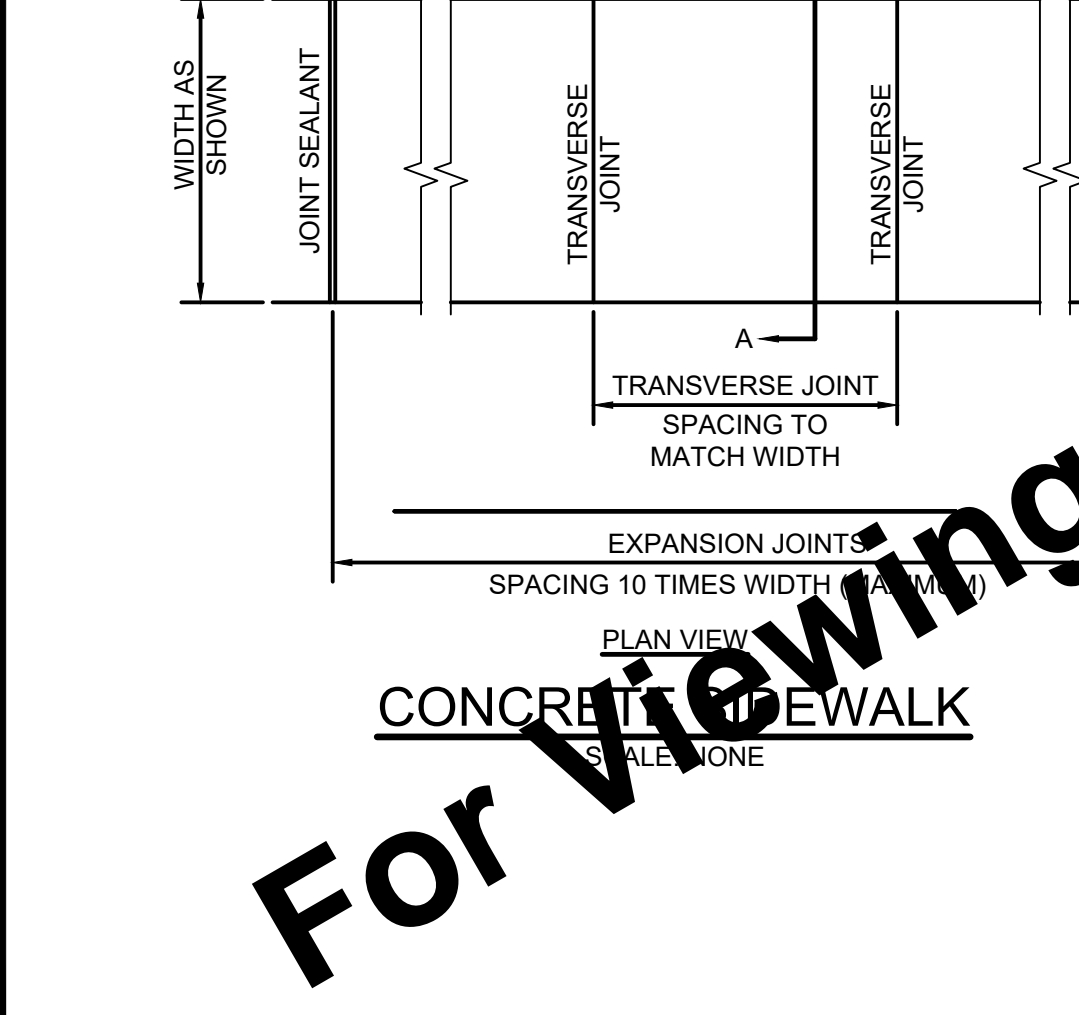
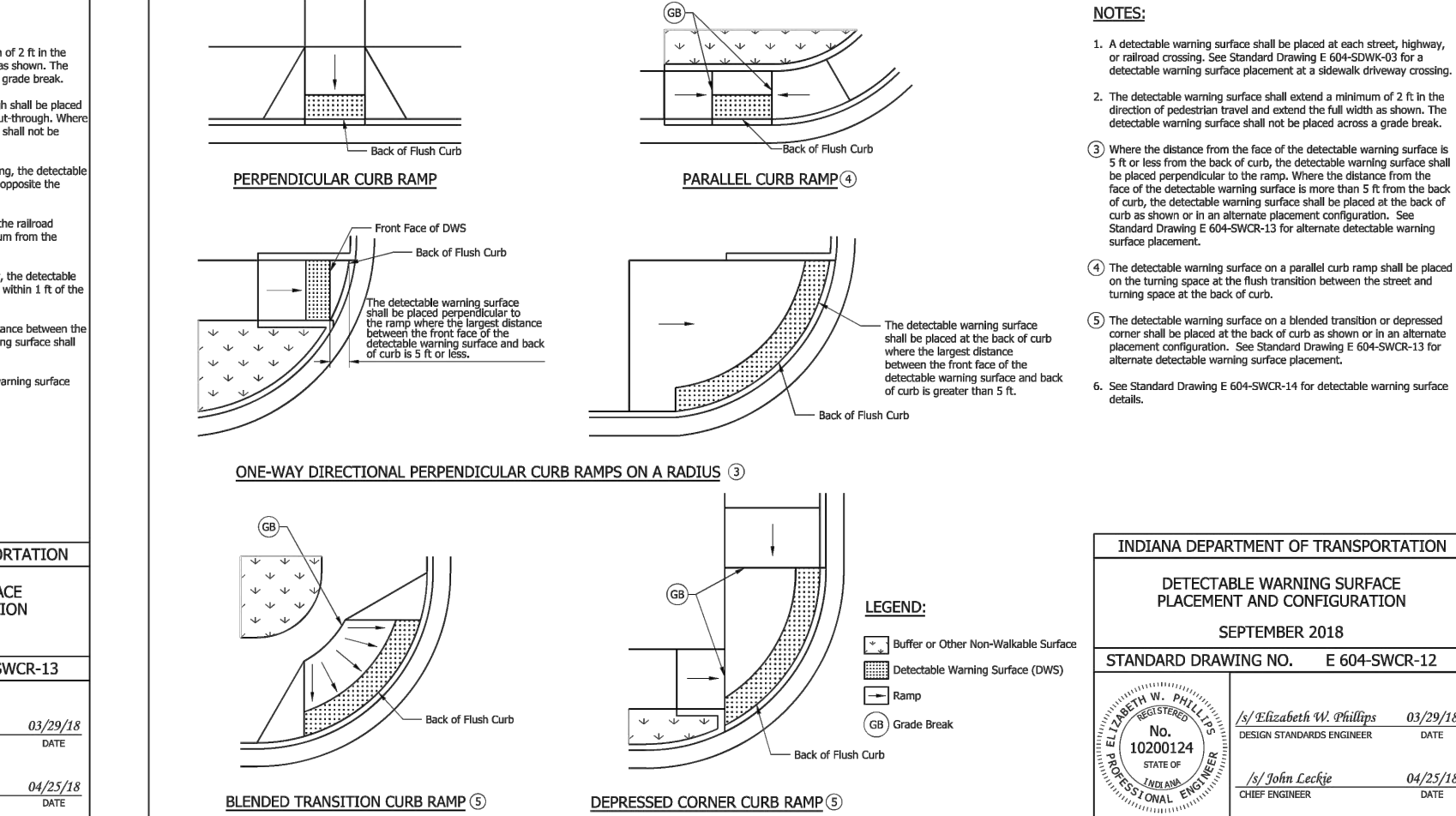
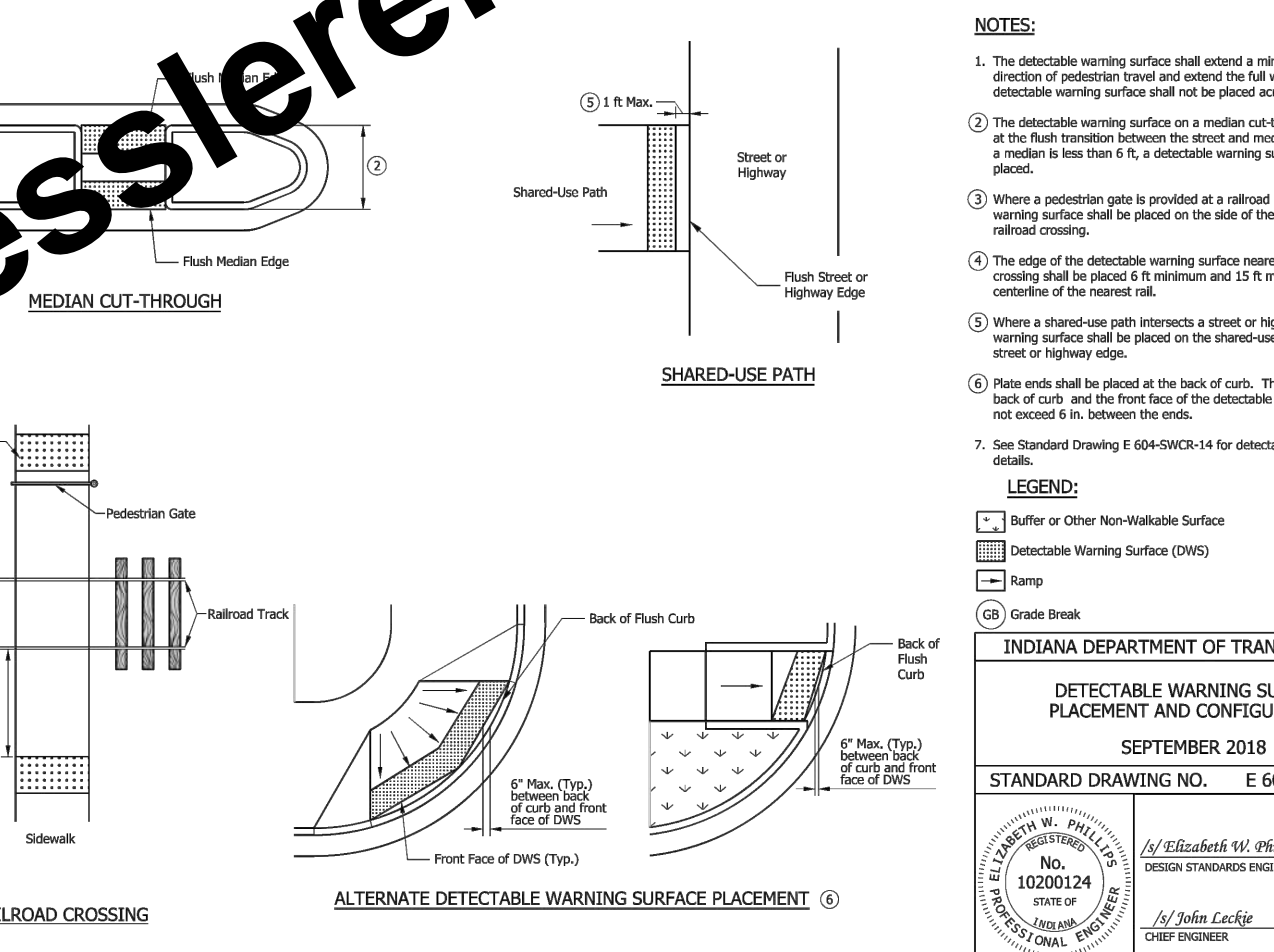
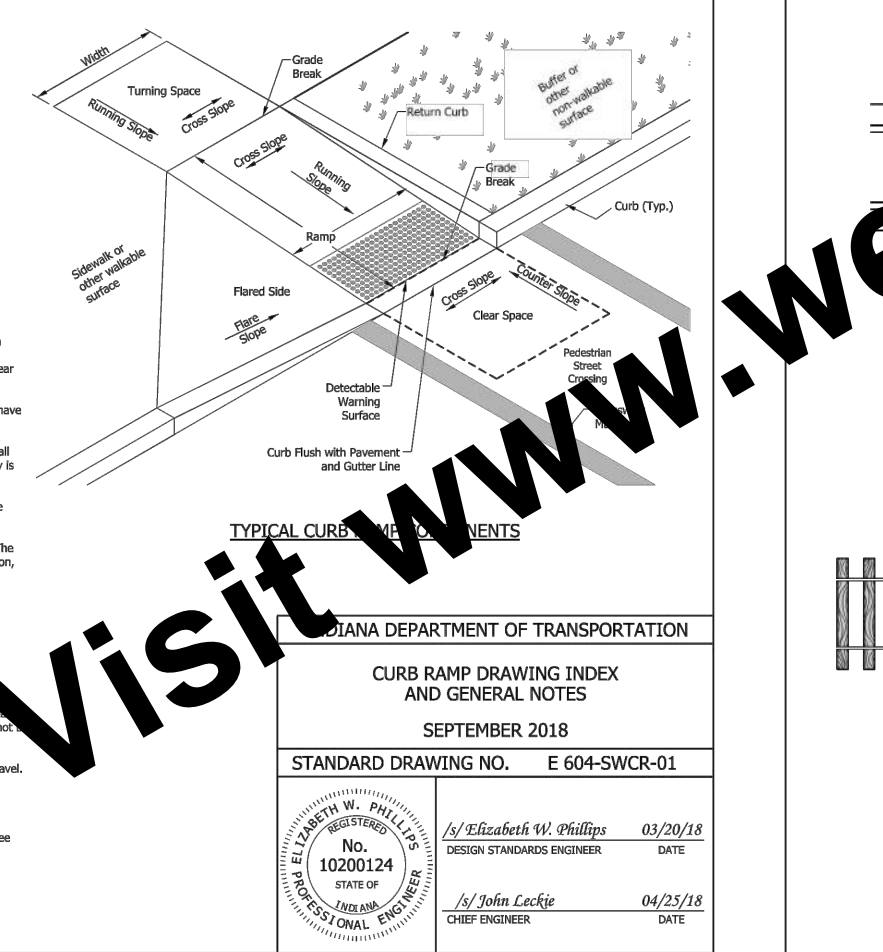
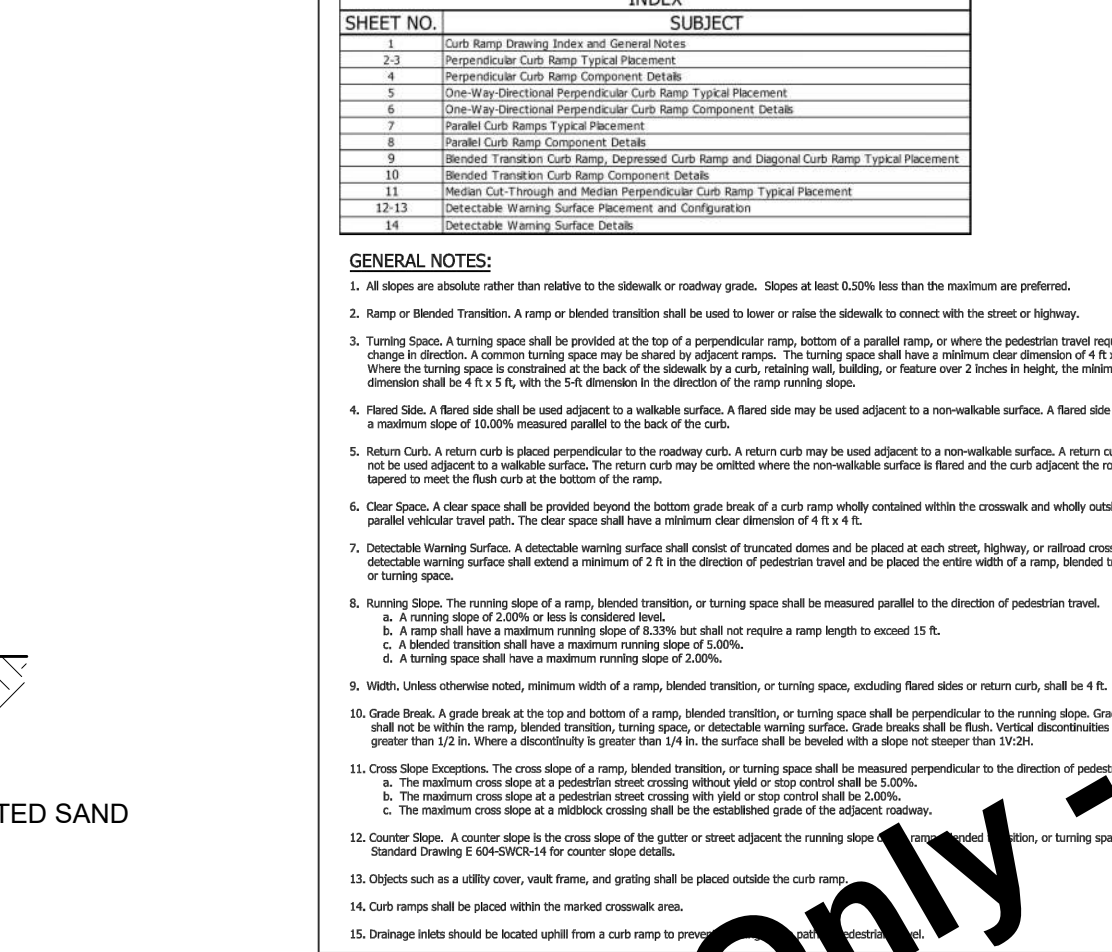
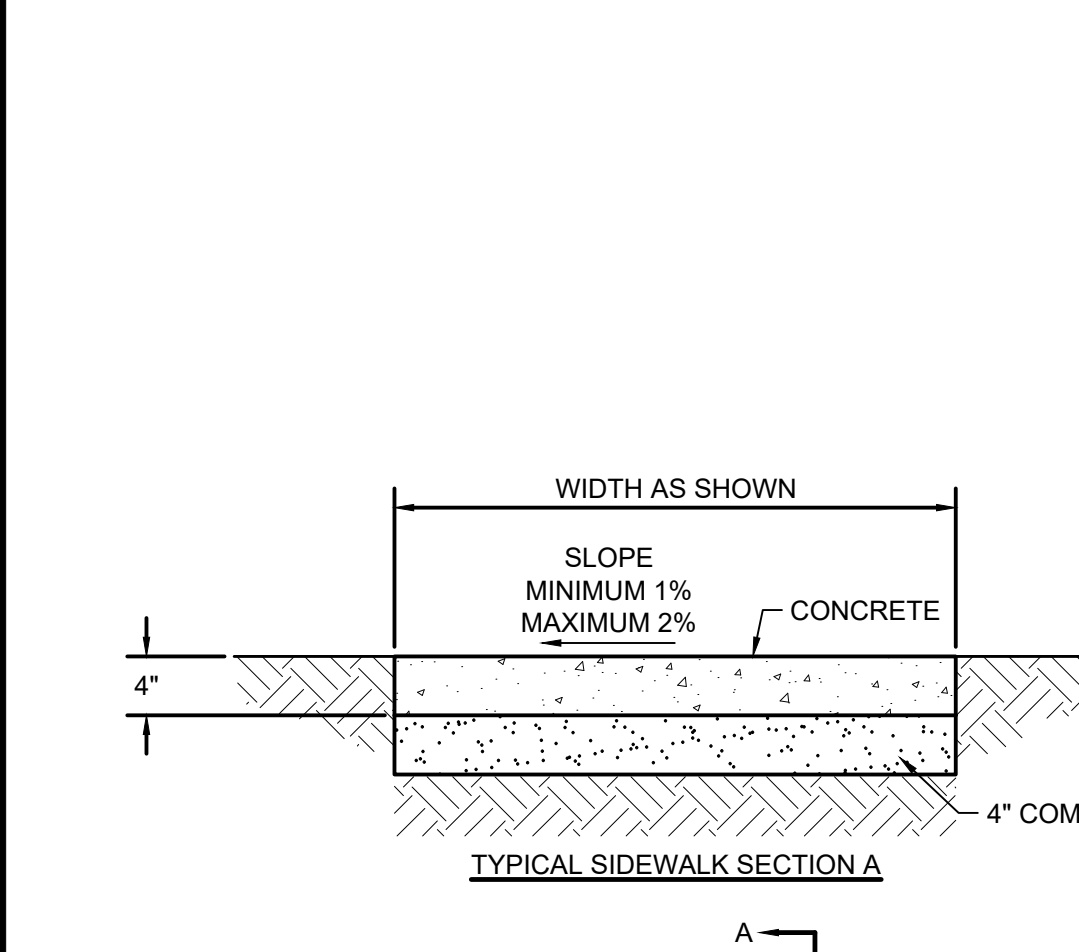
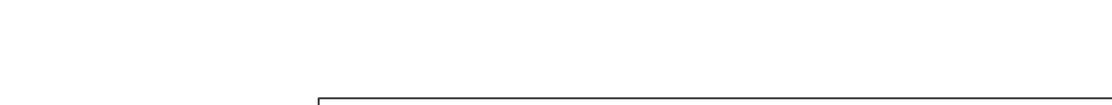
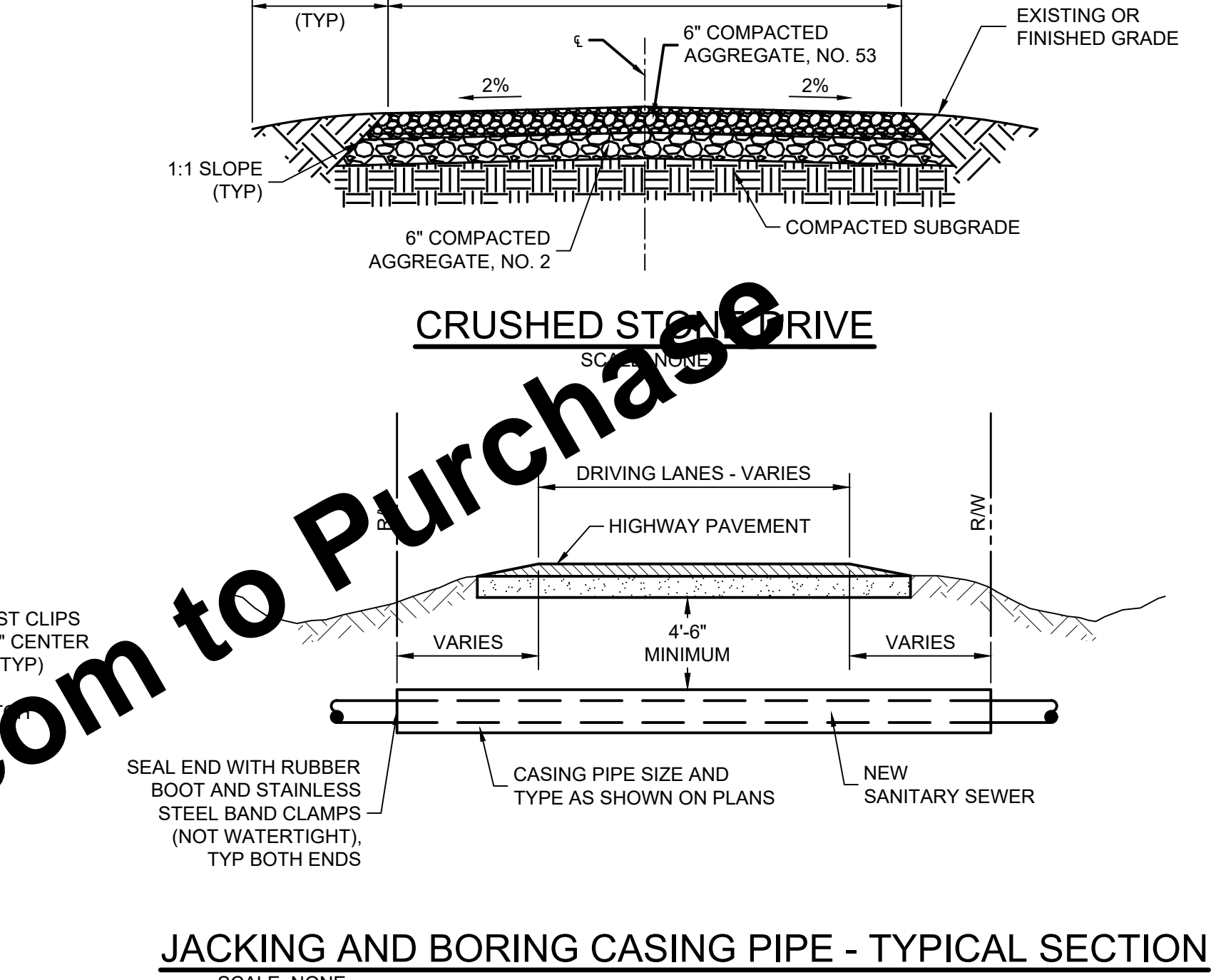
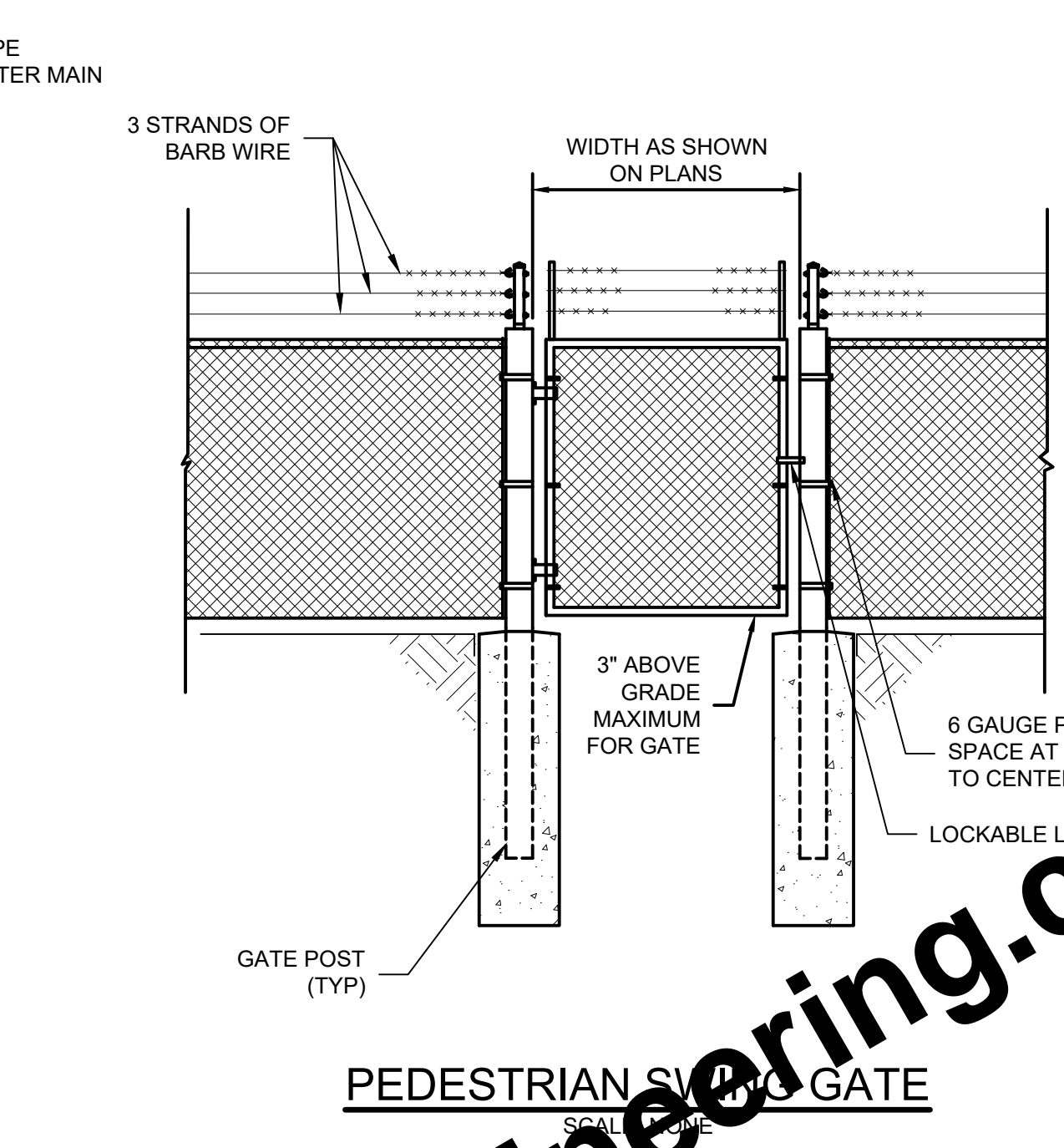
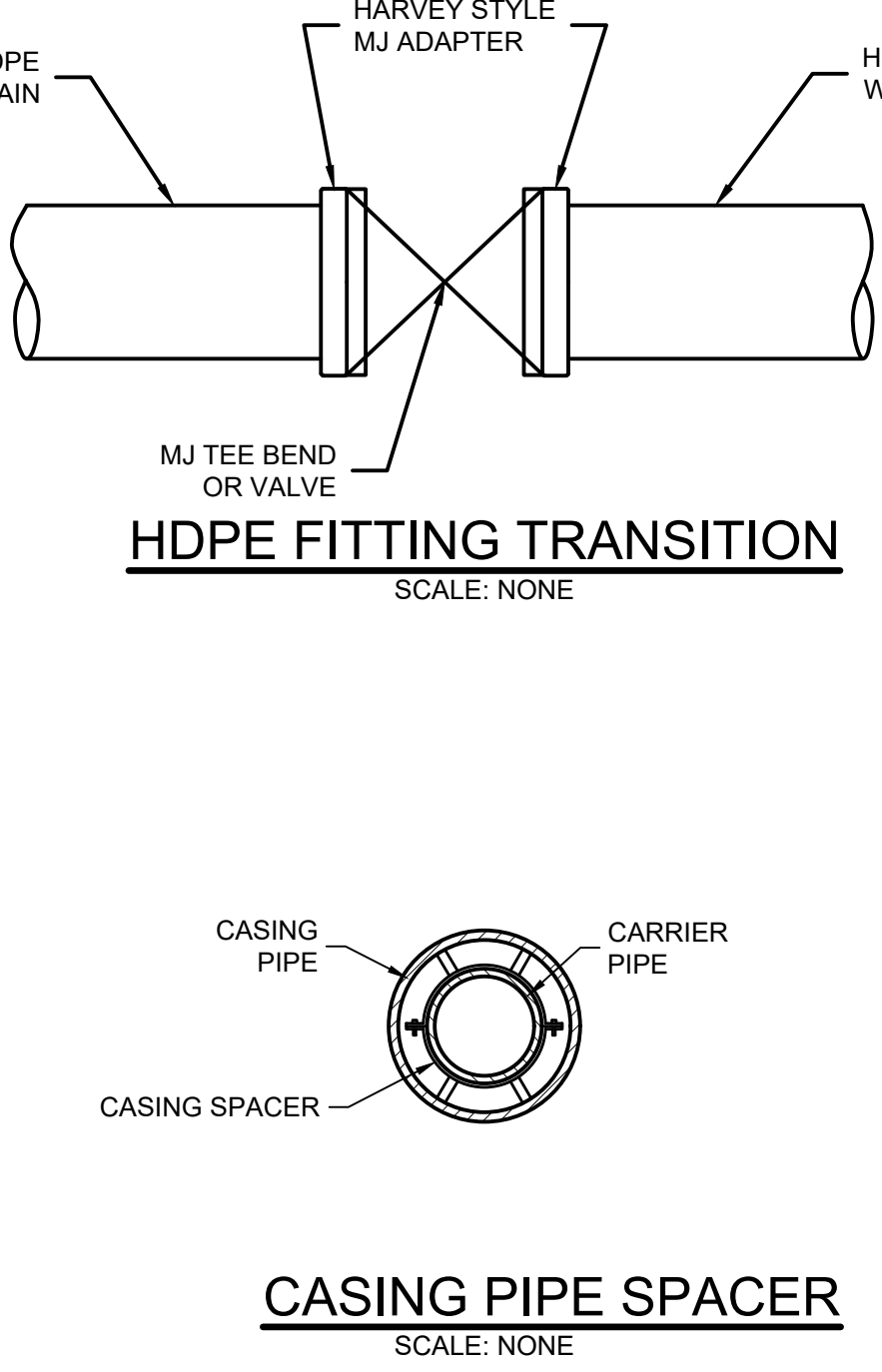
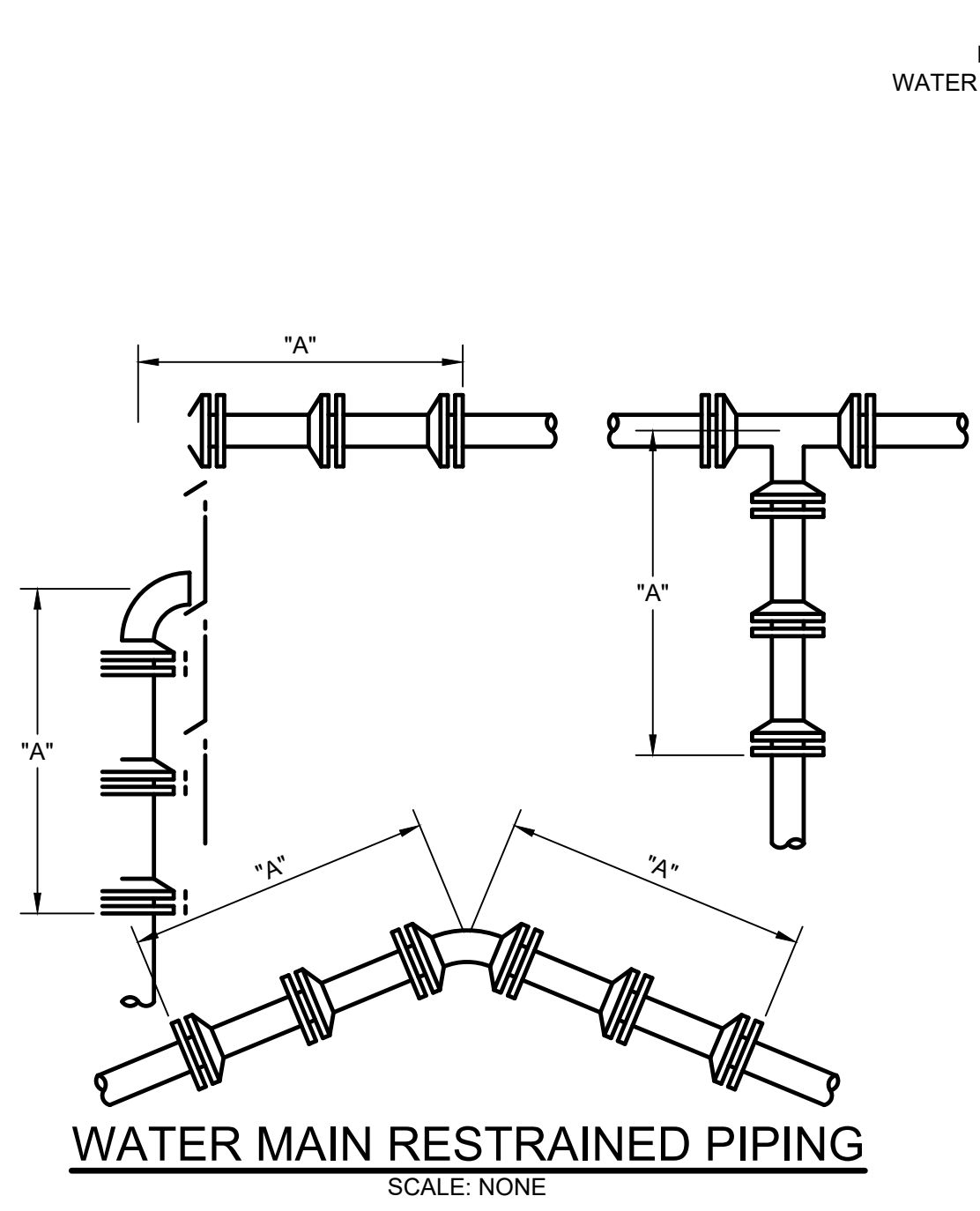
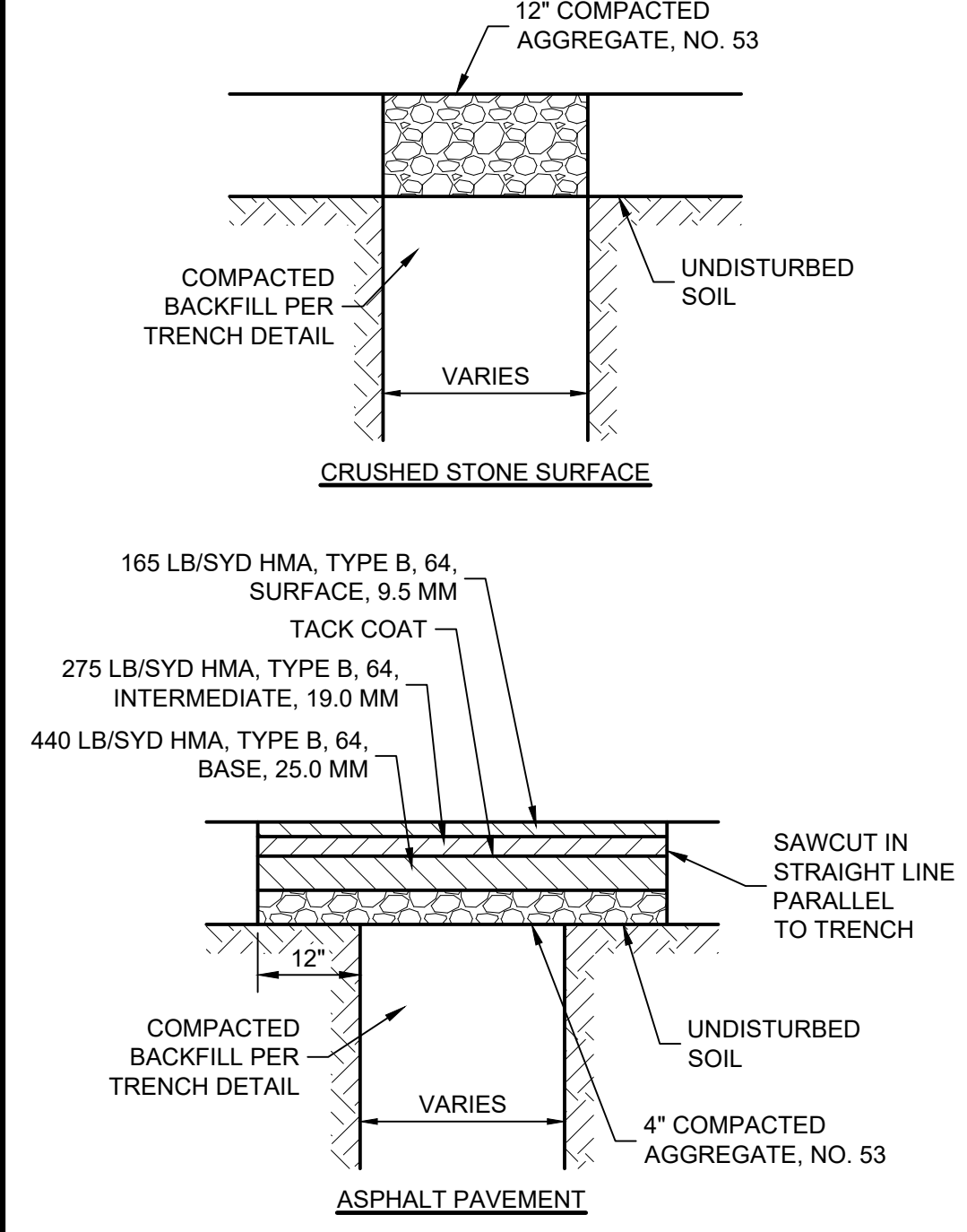
EAST SERVICE AREA WATER AND SEWER EXTENSIONS

CITY OF MARTINSVILLE, INDIANA

MISCELLANEOUS DETAILS

SHEET NO.	18
TOTAL SHEETS	28

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	ISSUE DATE	JULY 2022				
	PROJECT NUMBER	245521-04-001				

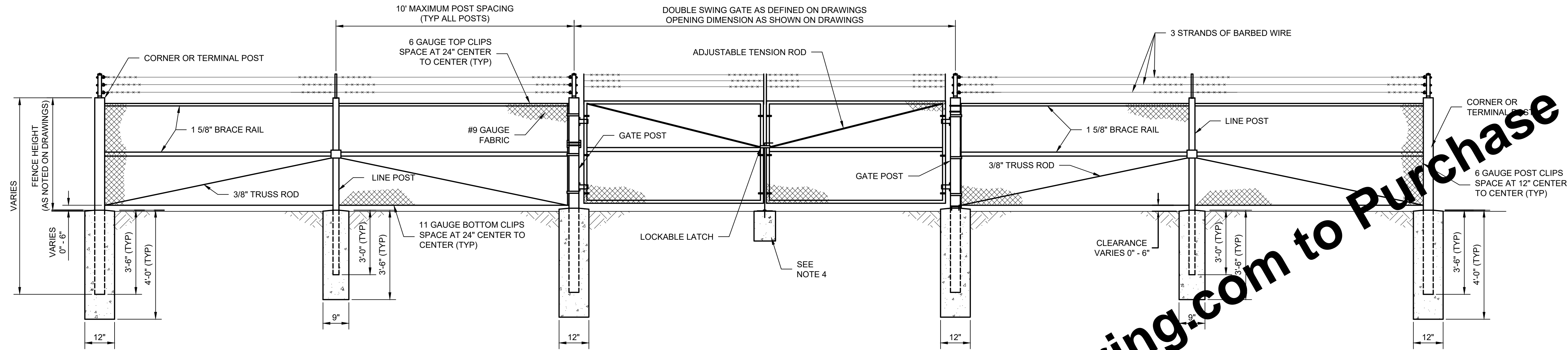
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	APPROVED BY	RWH				
	ISSUE DATE	JULY 2022				
	PROJECT NUMBER	245521-04-001				

Professional Engineer Seal for Robert W. Holley, No. 10000096, State of Indiana, dated 7/5/2022.

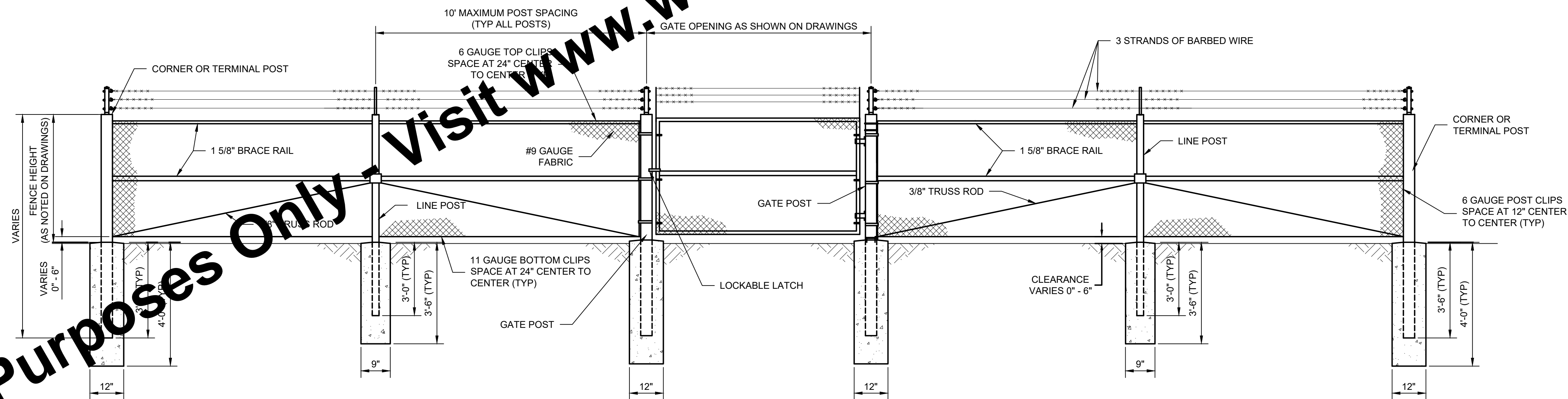
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EAST SERVICE AREA WATER AND SEWER EXTENSIONS
CITY OF MARTINSVILLE, INDIANA
MISCELLANEOUS DETAILS

SHEET NO. **19**
TOTAL SHEETS **28**



- NOTES:
1. GATE POSTS SHALL BE USED AT EACH FENCE CORNER OR END. GATE POSTS SHALL BE USED AT EACH GATE OPENING. LINE POSTS SHALL BE USED AT MAXIMUM 10' SPACING WHERE TERMINAL, GATE OR PULL POSTS ARE NOT REQUIRED.
 2. PULL POSTS SHALL BE SPACED AT A MAXIMUM OF 500' ON LONG STRAIGHT RUNS ALONG CONSISTENT GRADES, AT EVERY HORIZONTAL BEND GREATER THAN 10' WHERE TERMINAL POSTS ARE NOT REQUIRED, AND AT EVERY MAJOR CHANGE OF GRADE. PULL POSTS SHALL NOT BE USED AS GATE OR TERMINAL POSTS.
 3. ALL CONCRETE IN POST ANCHORS SHALL CONFORM TO THE SPECIFICATIONS.
 4. PROVIDE 8" X 8" X 12" DEEP CONCRETE BLOCKING FOR GATE LATCH.



- NOTES:
1. TERMINAL POSTS SHALL BE USED AT EACH FENCE CORNER OR END. GATE POSTS SHALL BE USED AT EACH GATE OPENING. LINE POSTS SHALL BE USED AT MAXIMUM 10' SPACING WHERE TERMINAL, GATE OR PULL POSTS ARE NOT REQUIRED.
 2. PULL POSTS SHALL BE SPACED AT A MAXIMUM OF 500' ON LONG STRAIGHT RUNS ALONG CONSISTENT GRADES, AT EVERY HORIZONTAL BEND GREATER THAN 10' WHERE TERMINAL POSTS ARE NOT REQUIRED, AND AT EVERY MAJOR CHANGE OF GRADE. PULL POSTS SHALL NOT BE USED AS GATE OR TERMINAL POSTS.
 3. ALL CONCRETE IN POST ANCHORS SHALL CONFORM TO THE SPECIFICATIONS.

CHAIN LINK FENCE INSTALLATION
SCALE: NONE

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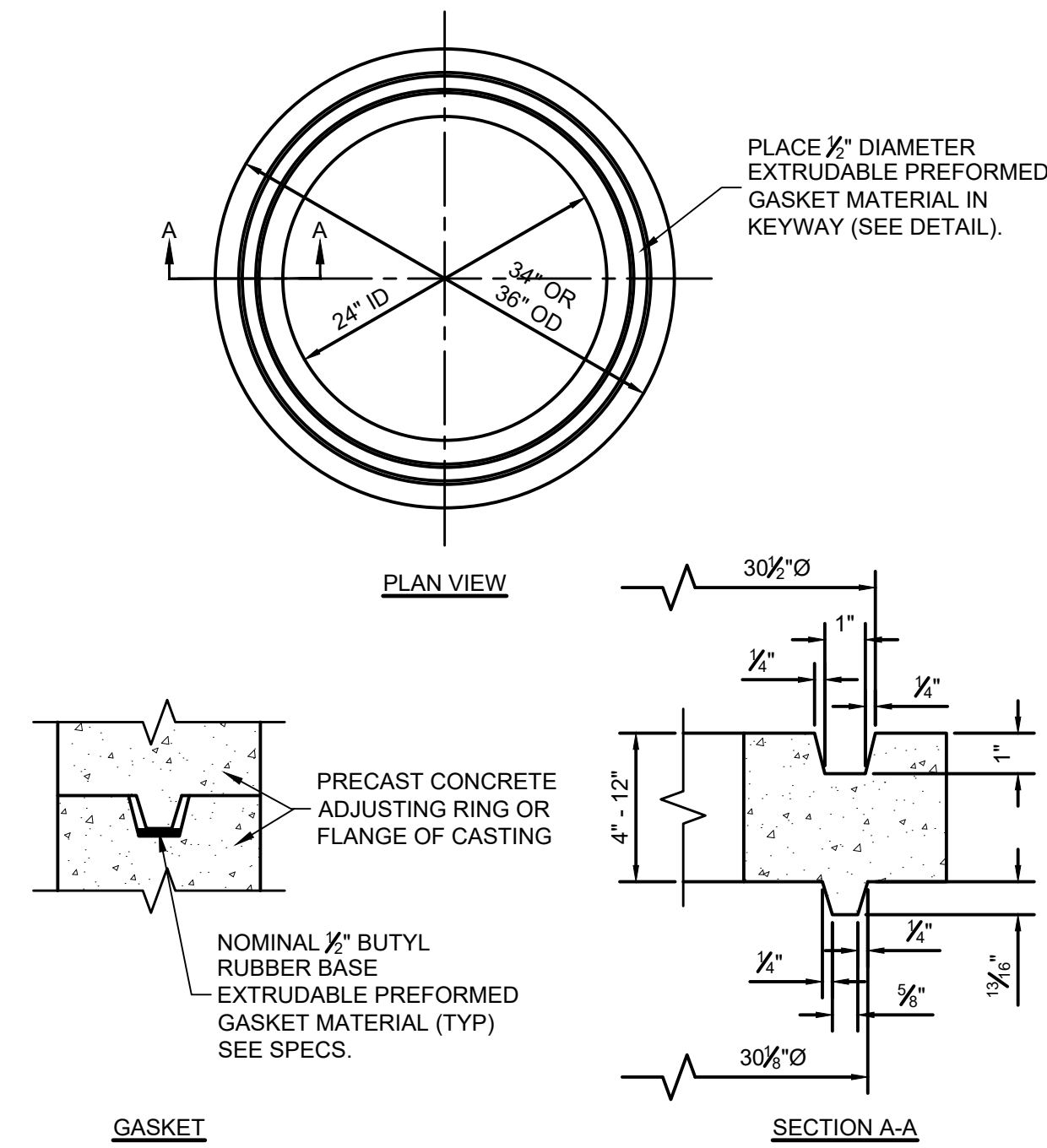
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	APPROVED BY	RWH				
	ISSUE DATE	JULY 2022				
	PROJECT NUMBER	245521-04-001				



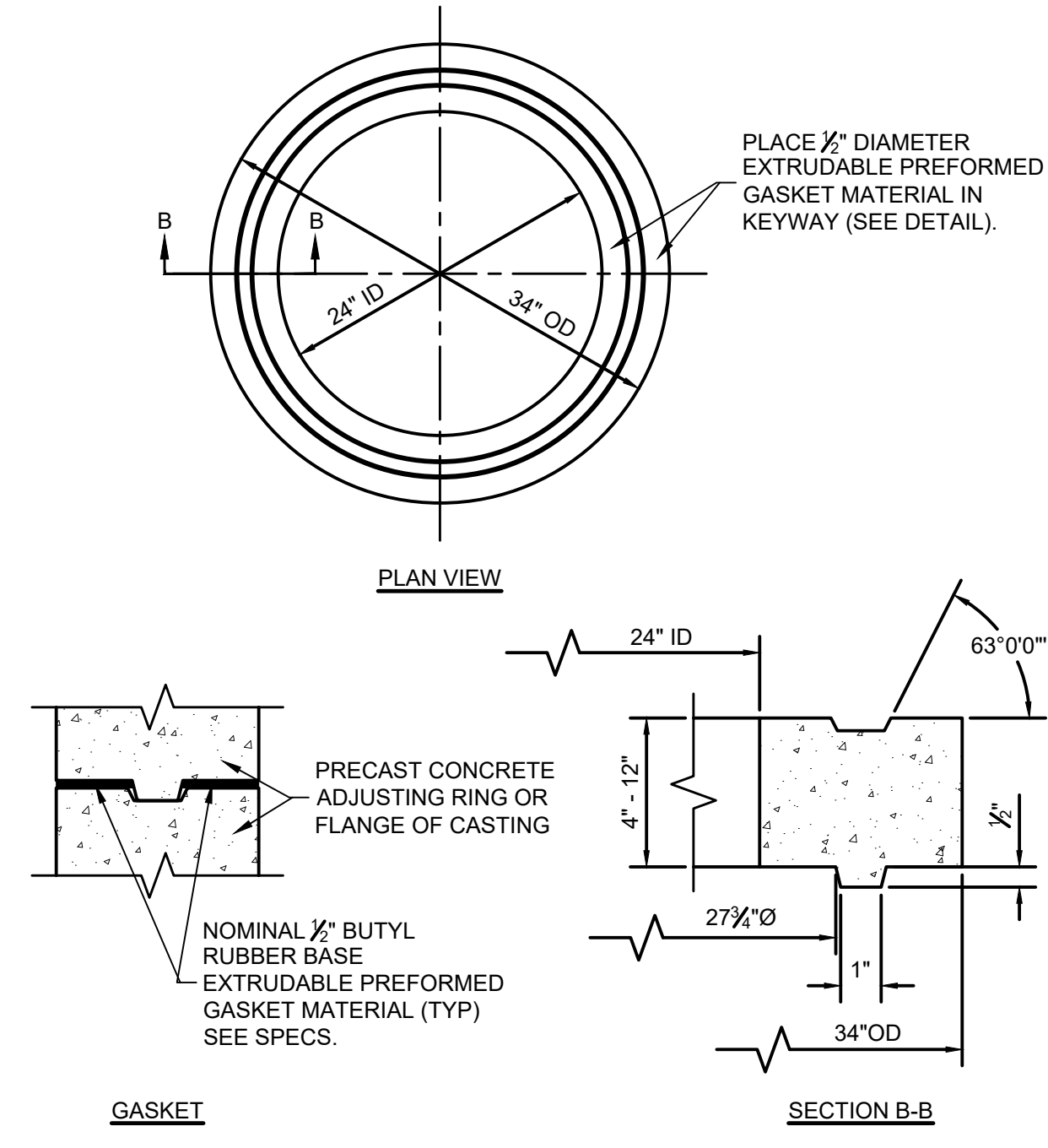
EAST SERVICE AREA WATER AND SEWER EXTENSIONS	
CITY OF MARTINSVILLE, INDIANA	
MISCELLANEOUS DETAILS	

SHEET NO.	20
TOTAL SHEETS	28

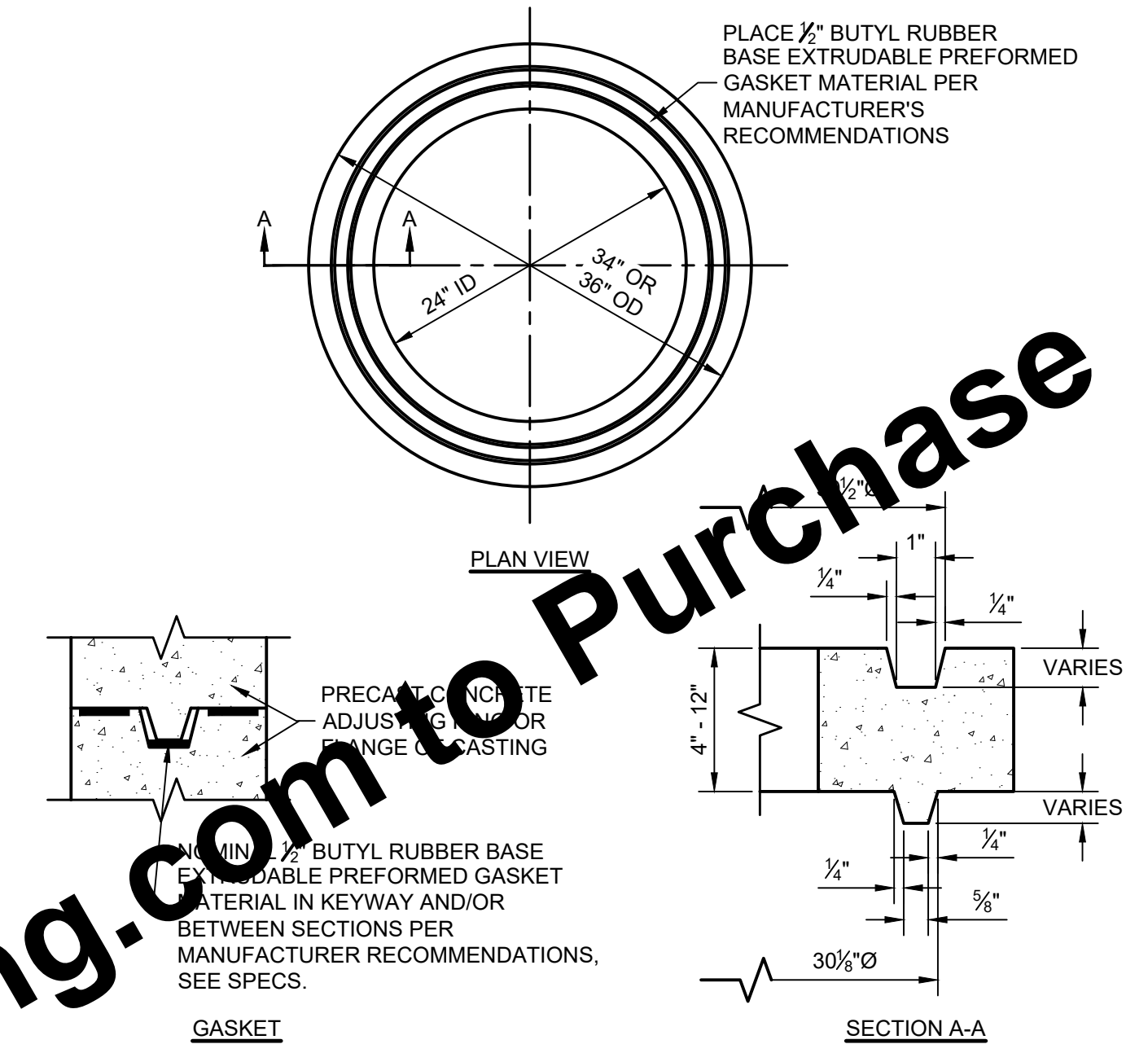
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ADJUSTING RING (OPTION 1)
SCALE: NONE

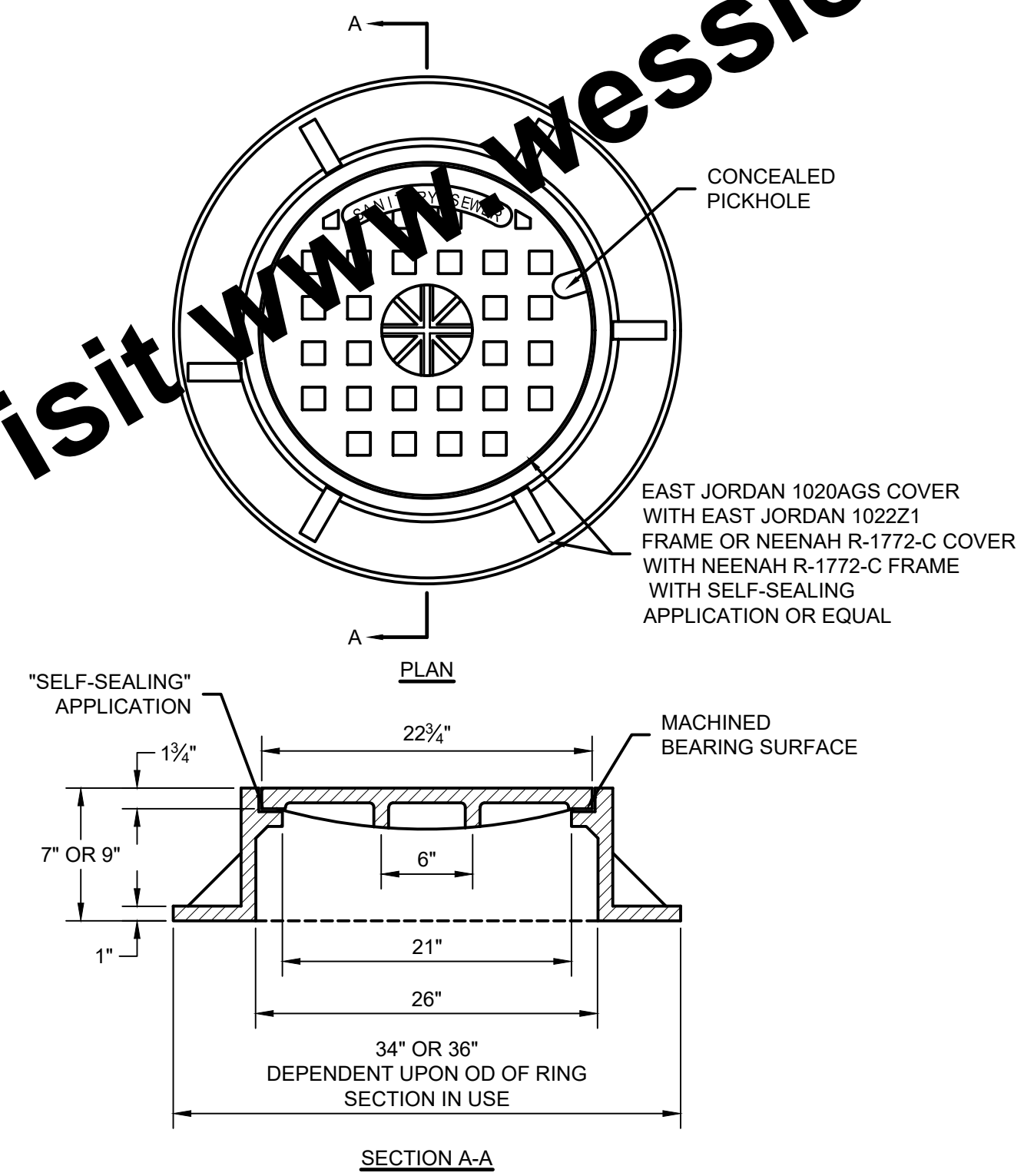


ADJUSTING RING (OPTION 2)
SCALE: NONE

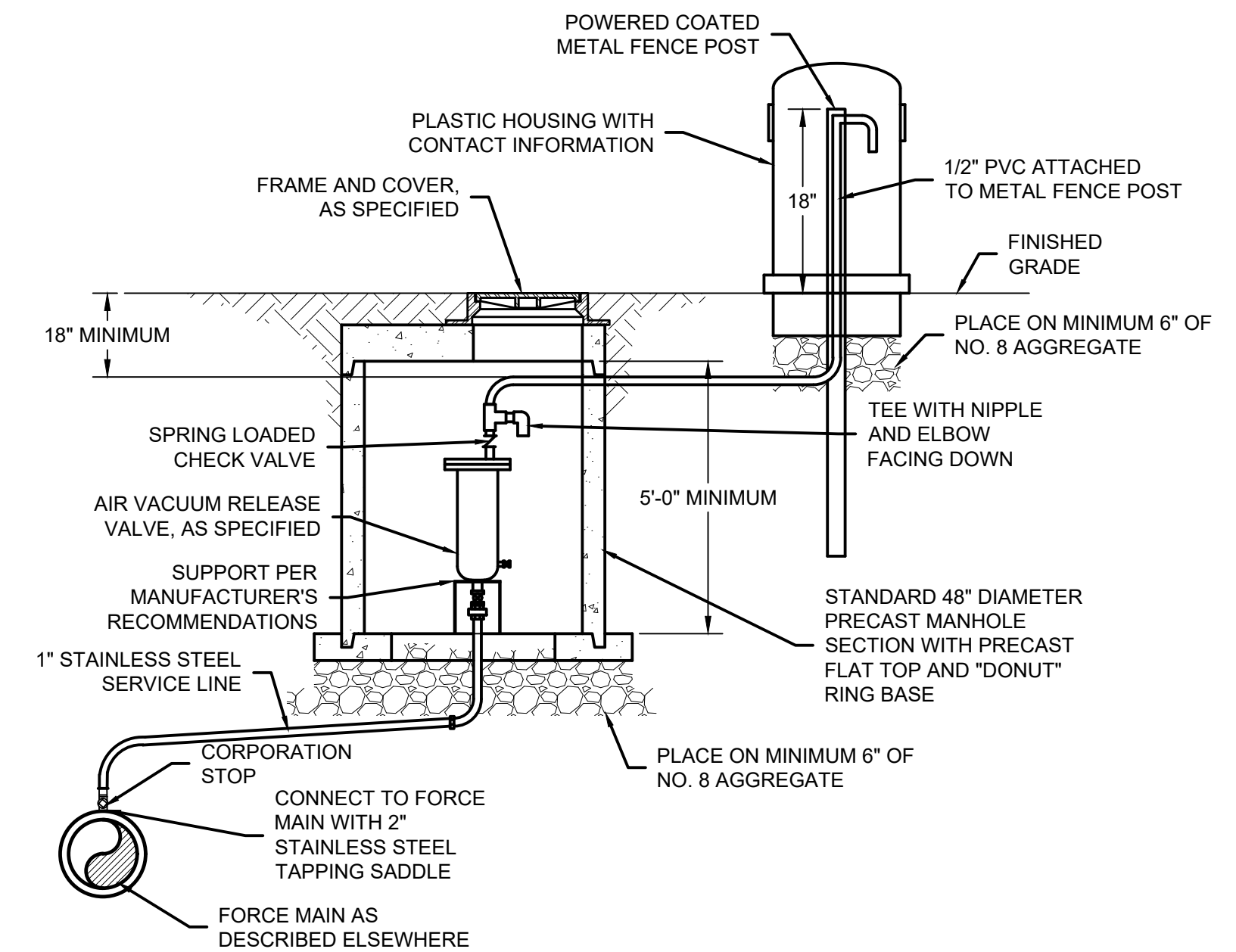


PRECAST CONCRETE ADJUSTING RING
SCALE: NONE

NOTES:
1. PRECAST CONCRETE ADJUSTING RINGS SHALL HAVE KEYWAY/CHANNEL CONSTRUCTION. "SMOOTH" ADJUSTING RINGS SHALL NOT BE PERMITTED.



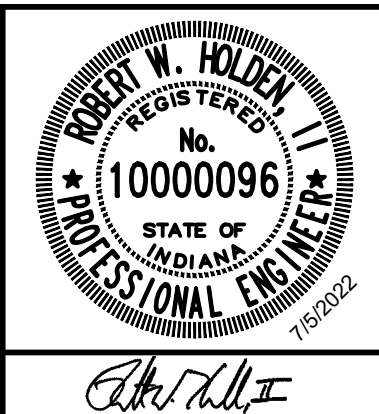
**STANDARD SANITARY SEWER MANHOLE
FRAME AND COVER**
SCALE: NONE



**AIR/VACUUM RELEASE
OFFSET VALVE AND VAULT**
SCALE: NONE

NOTES:
1. LOCATION OF AIR/VACUUM RELEASE STRUCTURES ARE APPROXIMATE. THE FINAL LOCATION TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT THE HIGH ELEVATION POINT OF THE FORCE MAIN.

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	PROJECT NUMBER					
		245521-04-001				



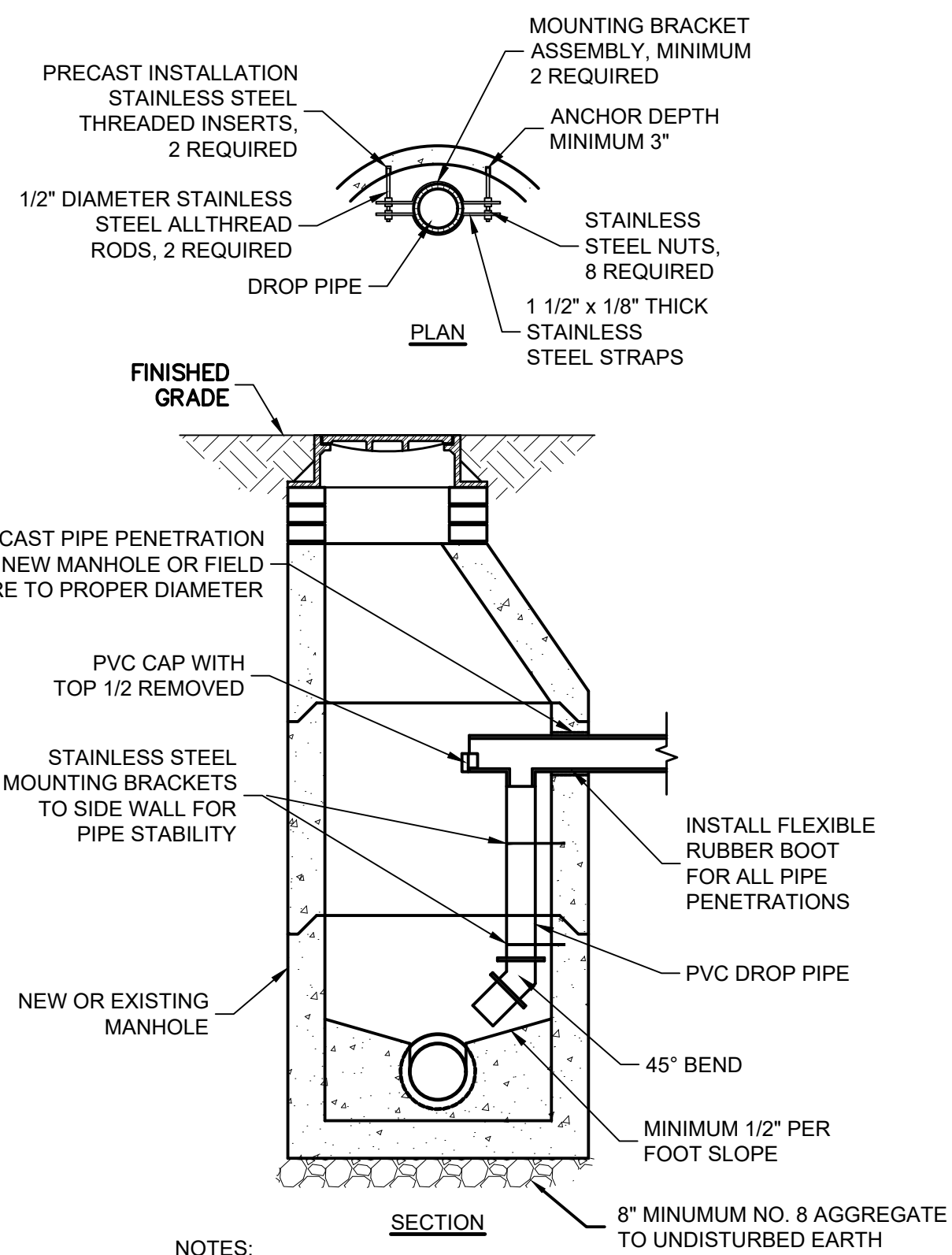
EAST SERVICE AREA WATER AND SEWER EXTENSIONS

CITY OF MARTINSVILLE, INDIANA

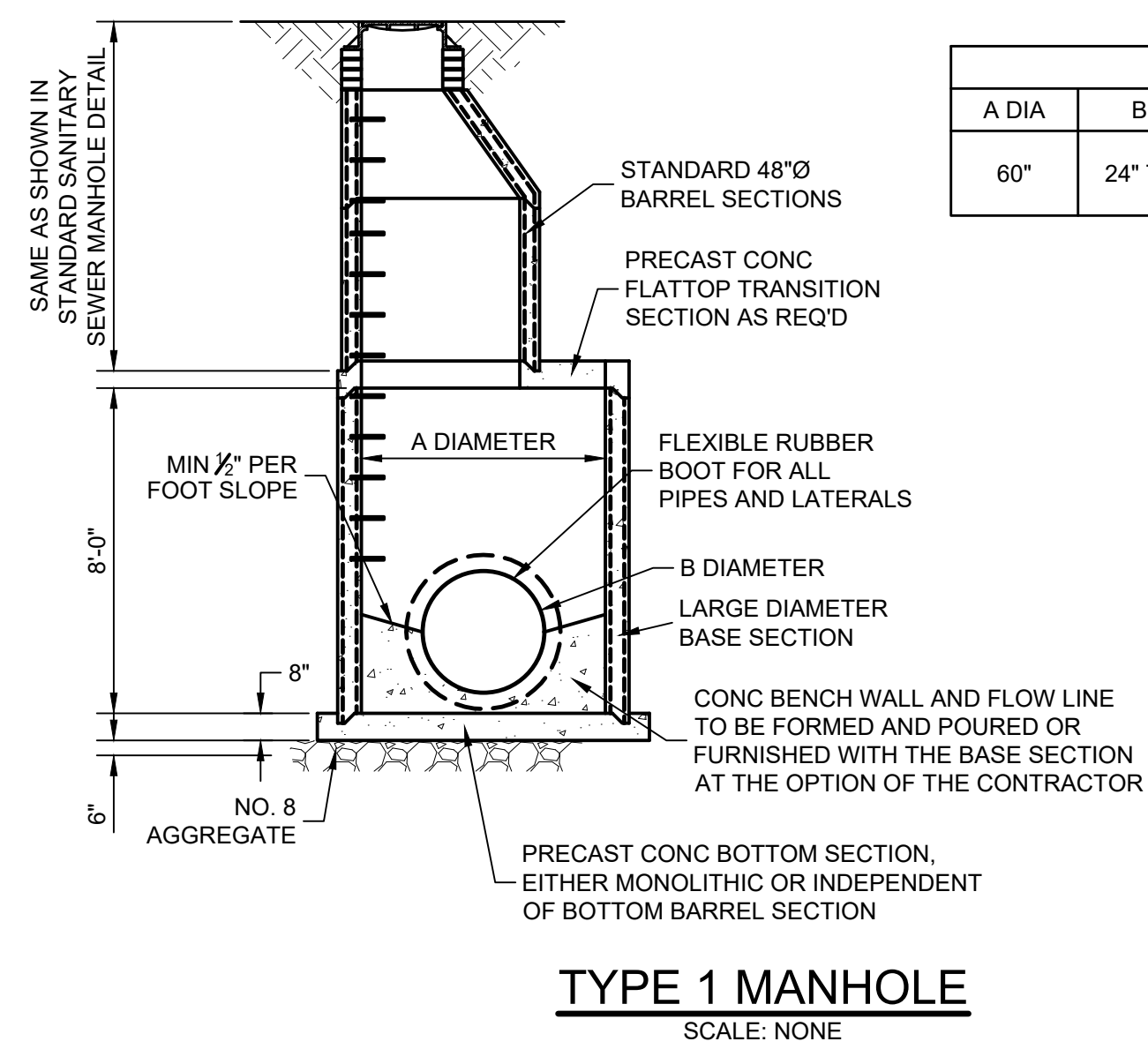
MISCELLANEOUS DETAILS

SHEET NO.	21
TOTAL SHEETS	28

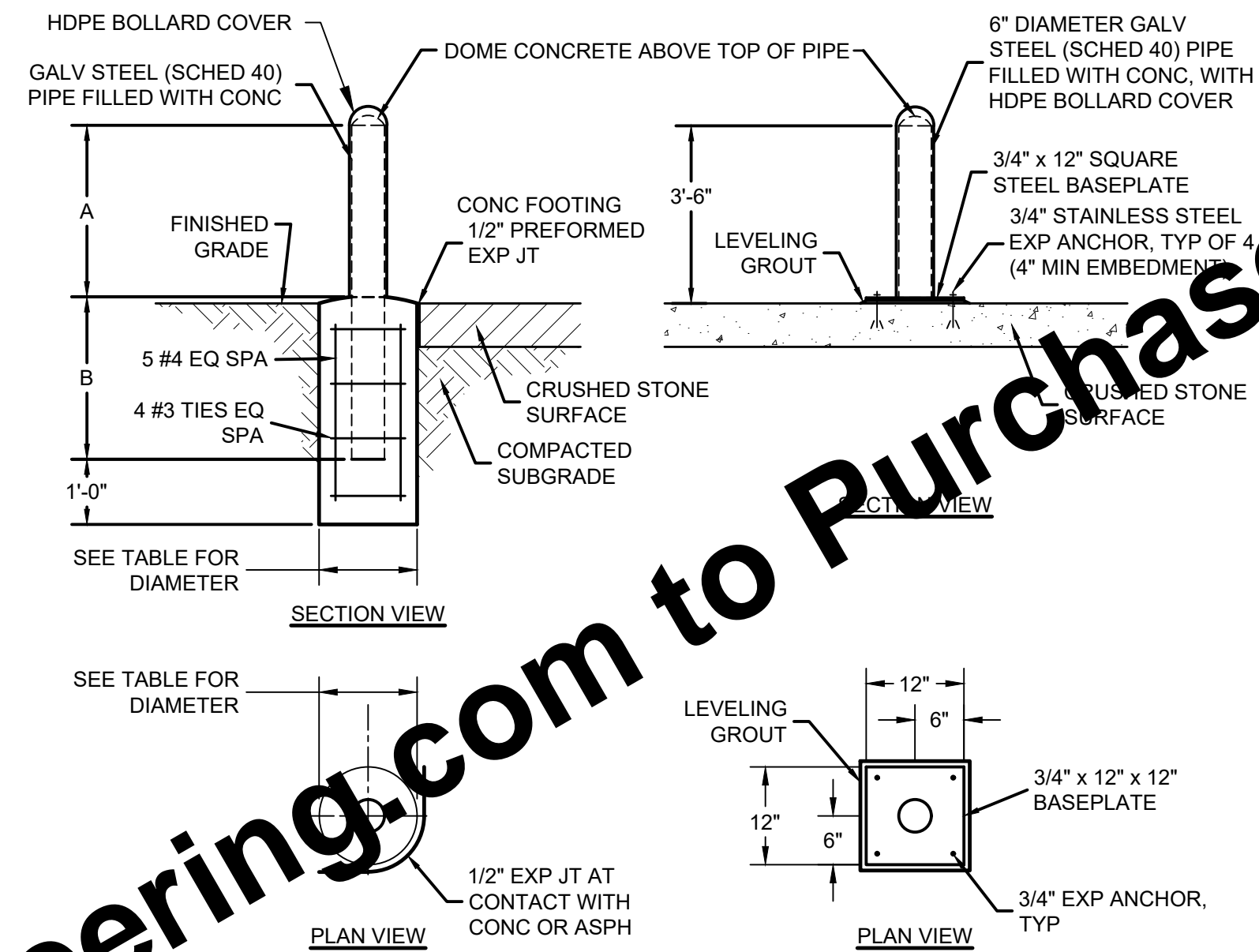
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INSIDE DROP MANHOLE
SCALE: NONE



TYPE 1 MANHOLE
SCALE: NONE



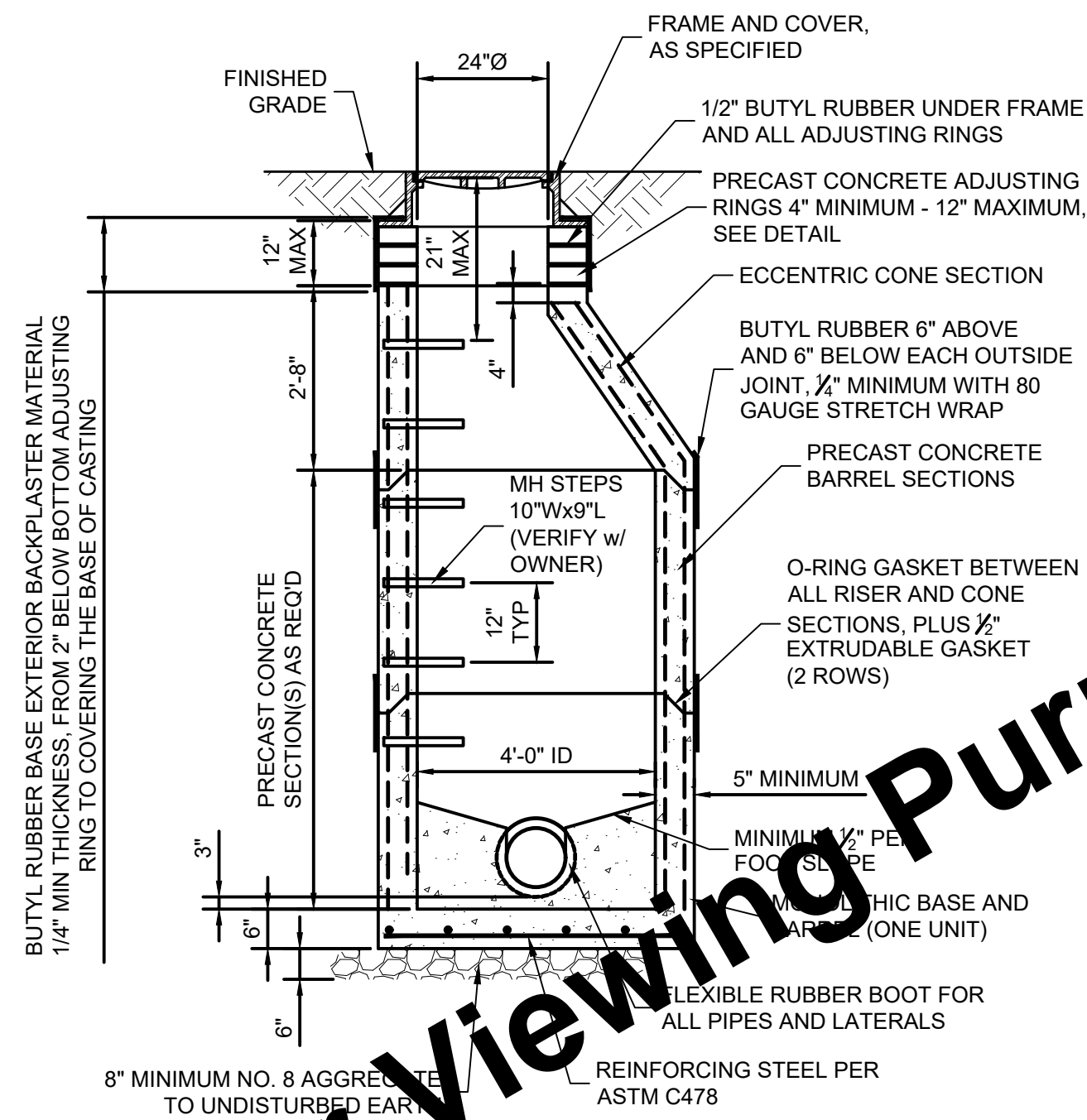
TYPES 1 AND 2 BOLLARDS

TYPE 3 BOLLARD

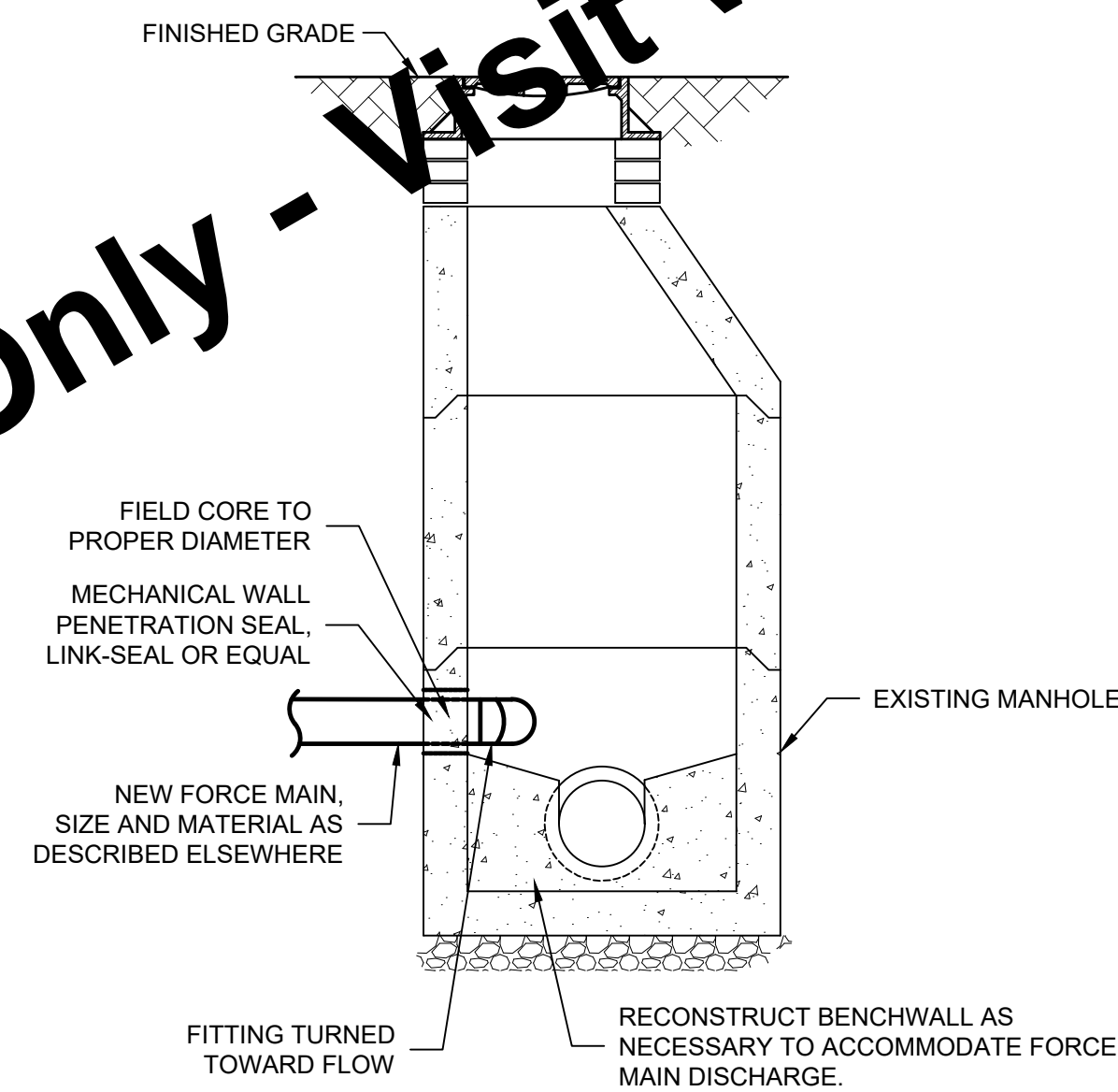
- NOTES:
- TYPE OF BOLLARD INSTALLED SHALL BE AS IDENTIFIED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
 - REFER TO SPEC 05520 FOR BOLLARD COVERS.

BOLLARDS		
	TYPE 1	TYPE 2
PIPE DIA	6"	8"
PIPE LENGTH	6'	7'
DIMENSION A	3'-6"	4'-0"
DIMENSION B	2'-6"	3'-0"
CONC FOOTING DIA	18"	24"

BOLLARD DETAIL
SCALE: NONE



STANDARD SANITARY SEWER MANHOLE
SCALE: NONE

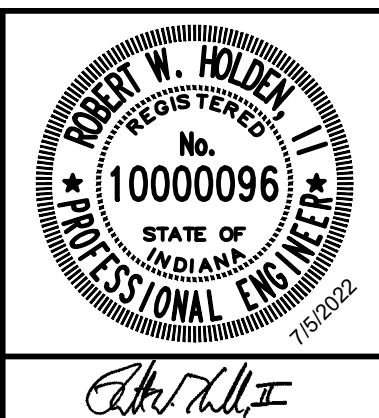


FORCE MAIN CONNECTION AT MANHOLE
SCALE: NONE

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	PROJECT NUMBER	245521-04-001				



EAST SERVICE AREA WATER AND SEWER EXTENSIONS
CITY OF MARTINSVILLE, INDIANA
MISCELLANEOUS DETAILS

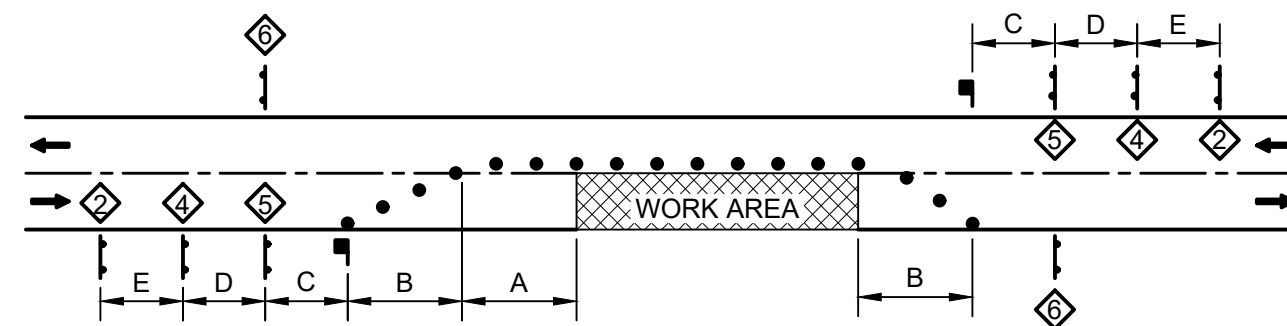
SHEET NO.
22
TOTAL SHEETS
28

SPEED (MPH)	DISTANCE (FEET)				
	A	B	C	D	E
20 OR LESS	120	100	100	100	100
25	160	100	100	100	100
30	200	100	100	100	100
35	280	100	350	350	350
40	320	100	350	350	350
45	360	100	500	500	500
50	440	100	500	500	500
55	520	100	500	500	500
60	600	100	1,000	1,600	2,640
65	680	100	1,000	1,600	2,640
70	760	100	1,000	1,600	2,640

- NOTES:**
- DISTANCES SHOWN ARE APPROXIMATE. ADJUST SIGN FOR CURVES, HILLS, INTERSECTIONS, DRIVEWAYS, ETC TO IMPROVE SIGN VISIBILITY.
 - THE SPACING OF CHANNELIZING DEVICES SHOULD BE A DISTANCE IN FEET EQUAL TO THE SPEED LIMIT IN MPH WHEN USED FOR TAPER CHANNELIZATION, AND A DISTANCE IN FEET EQUAL TO 2.0 TIMES THE SPEED LIMIT IN MPH USED FOR TANGENT CHANNELIZATION.

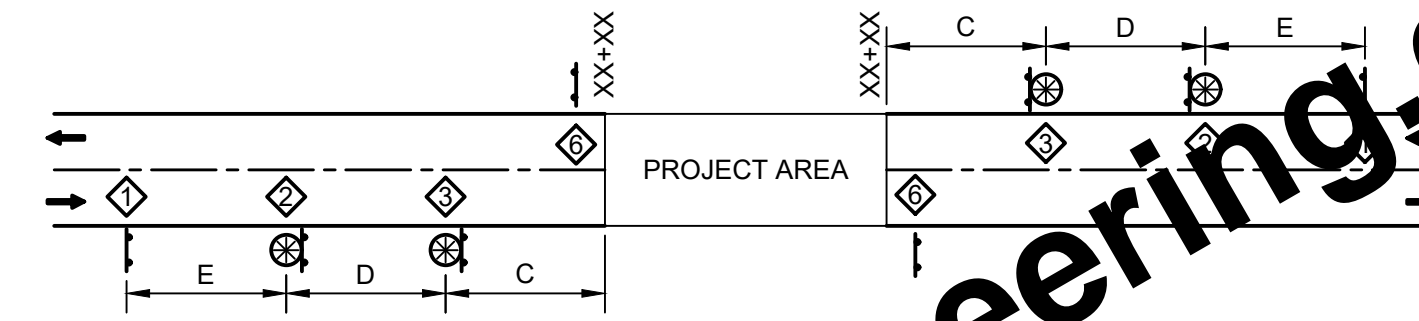
ADVANCE WARNING SIGN AND FLAGGER OPERATION SPACING

SCALE: NONE



TEMPORARY FLAGGER OPERATION

SCALE: NONE



CONSTRUCTION SIGN PLACEMENT

SCALE: NONE

- TRAFFIC CONTROL LEGEND**
- WORK AREA(S)
 - TYPE A CONSTRUCTION WARNING LIGHT
 - WORKSITE ADDED PENALTY (G20-7) ONLY FLASHERS AND DOT ROADS
 - "ROAD WORK AHEAD" (W20-1) OR "UTILITY WORK AHEAD" (W21-7)
 - "ROAD WORK - XXX FT" (W20-1)
 - "ONE LANE ROAD AHEAD" (W20-2)
 - FLAGGER SIGN (W20-3)
 - "END ROAD WORK" (G20-2)
 - BARRICADE TYPE IIIIB
 - TRAFFIC CONTROL DRUM
 - TRAFFIC FLOW DIRECTION
 - ROAD CLOSURE SIGN ASSEMBLY, INCLUDES R11-2, BARRICADE TYPE IIIIB, AND TYPE B CONSTRUCTION WARNING LIGHT
 - UNDISTRIBUTED COMPACTED AGGREGATE, NO. 53, TEMPORARY FOR ACCESS
 - TEMPORARY PAVEMENT MARKING, REMOVABLE, SOLID, 4" (YELLOW)
 - TEMPORARY PAVEMENT MARKING, REMOVABLE, SOLID, 4" (WHITE)
 - TEMPORARY PAVEMENT MARKING, PAINT, SOLID, 4" (YELLOW)
 - TEMPORARY PAVEMENT MARKING, PAINT, SOLID, 4" (WHITE)
 - REMOVAL OF LINE
 - FLAGGER
 - SIGN, FACING LEFT
 - SIGN, FACING RIGHT

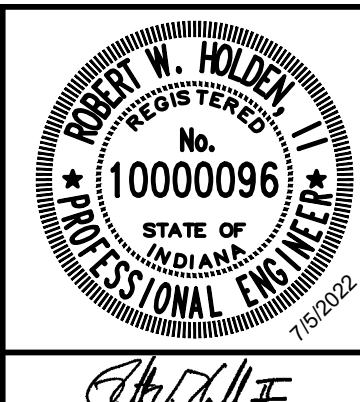
TRAFFIC CONTROL LEGEND

SCALE: NONE

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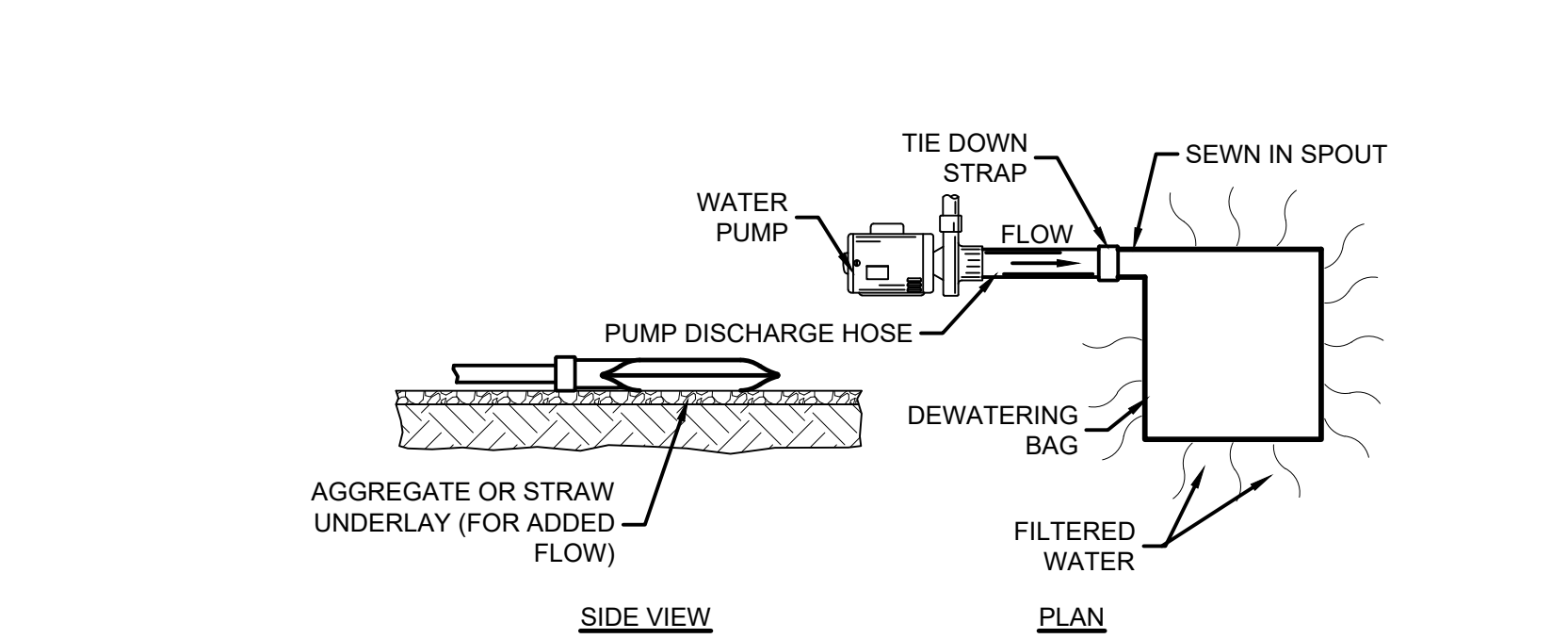
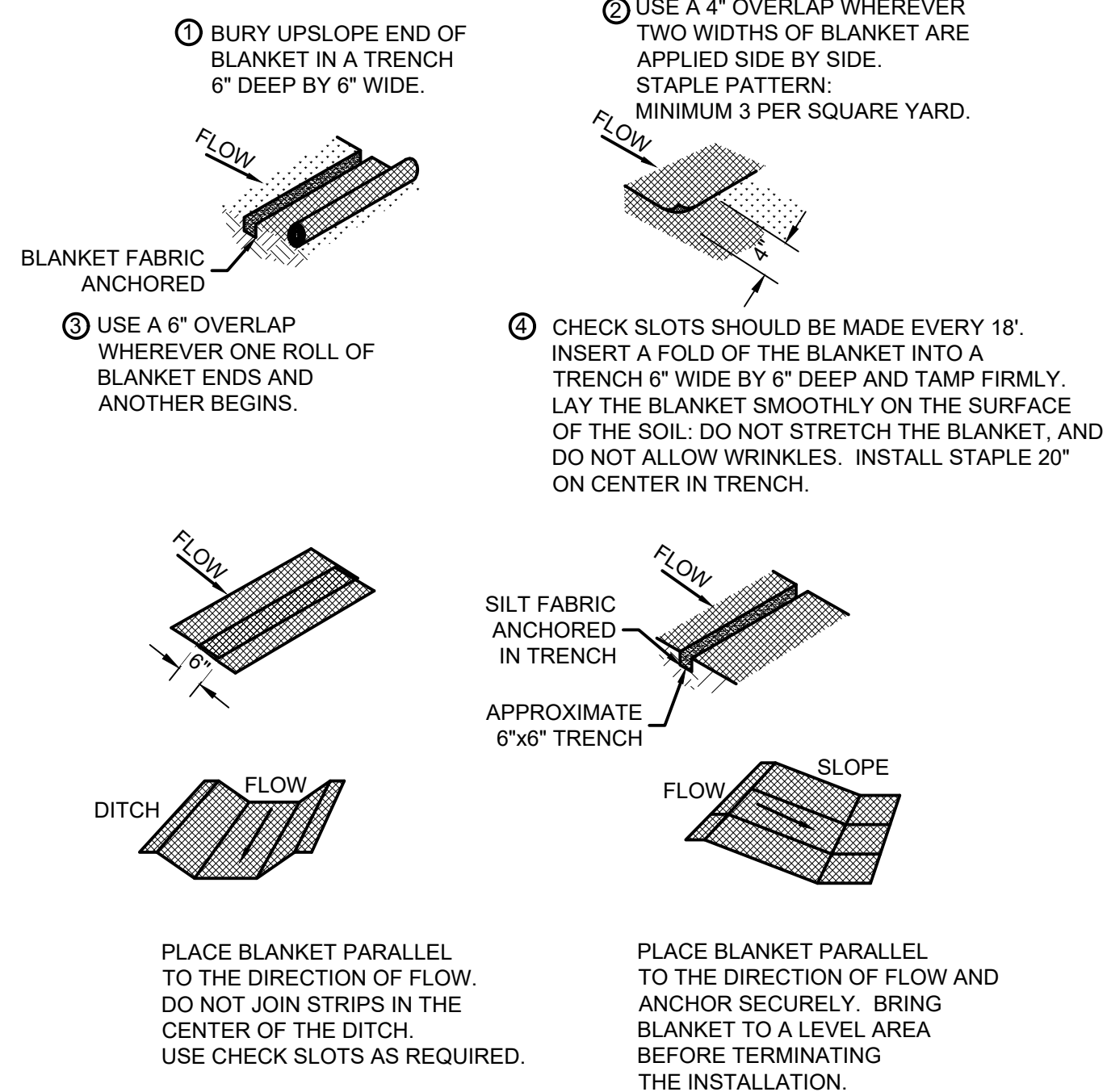
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	CHECKED BY	AJP				
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	PROJECT NUMBER	245521-04-001				



EAST SERVICE AREA WATER AND SEWER EXTENSIONS	
CITY OF MARTINSVILLE, INDIANA	
MAINTENANCE OF TRAFFIC DETAILS	

SHEET NO.	23
TOTAL SHEETS	28

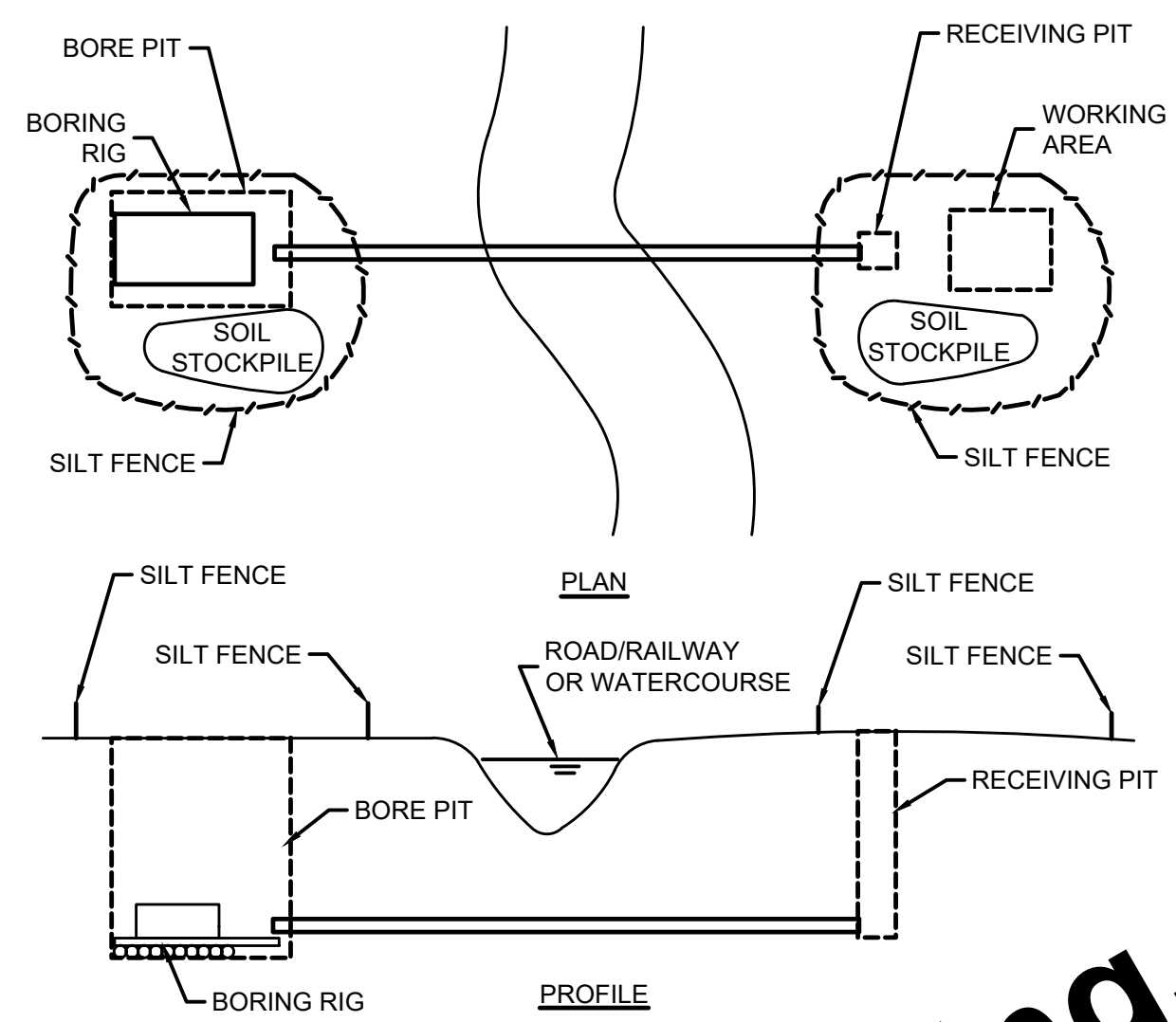


MECHANICAL PROPERTIES	TEST METHOD	UNITS	INDUSTRY STANDARD
GRAB TENSILE STRENGTH	ASTM D4632	kN (LB)	0.9 (205) X 0.9 (205)
GRAB TENSILE ELONGATION	ASTM D4632	%	50 X 50
PUNCTURE STRENGTH	ASTM D4833	kN (LB)	0.58 (130)
MULLEN BURST STRENGTH	ASTM D3786	kPa (PSI)	2618 (380)
TRAPEZOID TEAR STRENGTH	ASTM D4533	kN (LB)	0.36 (80) X 0.36 (80)
UV RESISTANCE	ASTM D4355	%	70
APPARENT OPENING SIZE	ASTM D4751	Mm (US STD SIEVE)	0.180 (80)
FLOW RATE	ASTM D4491	1/MIN/M ² (GAL/MIN/FT ²)	3866 (95)
PERMITTIVITY	ASTM D4491	S ⁻¹	1.2

MAINTENANCE:
 1. DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE PUMPING BAG SHOULD BE REVIEWED FREQUENTLY. SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED.
 2. DISPOSE OF ACCUMULATED SEDIMENT REMOVED DURING PUMPING OPERATIONS IN CONFORMANCE WITH THE SPECIFICATIONS.
 3. REPLACE THE BAG OR DISPOSE OF SILT WHEN HALF FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE TO AN IMPRACTICAL RATE.

SOURCE:
 KRISTAR
 DANDY DEWATERING BAG
 SEDCATCH

PUMPING BAG
SCALE: NONE



NOTES:
 1. INSTALL SILT FENCE PRIOR TO ANY EXCAVATION.
 2. FILTER WATER FROM BORE PIT DEWATERING, AND DISCHARGE TO ANY DITCH, STREAM, WETLAND, OR WATER CONVEYANCE. REFER TO PUMPING BAG DRAWING.
 3. PLACE SOIL STOCKPILES WITHIN THE SITE BOUNDARY.
 4. SOIL FROM STOCKPILES SHALL BE RESEED, OR BACKFILL OR DISPOSED OF PROPERLY.
 5. RESEED AND MULCH ALL EXPOSED SOIL SURFACES.
 6. PROVIDE ENVIRONMENTAL PROTECTION AS NECESSARY TO CONTAIN ANY DRILLING FLUIDS.

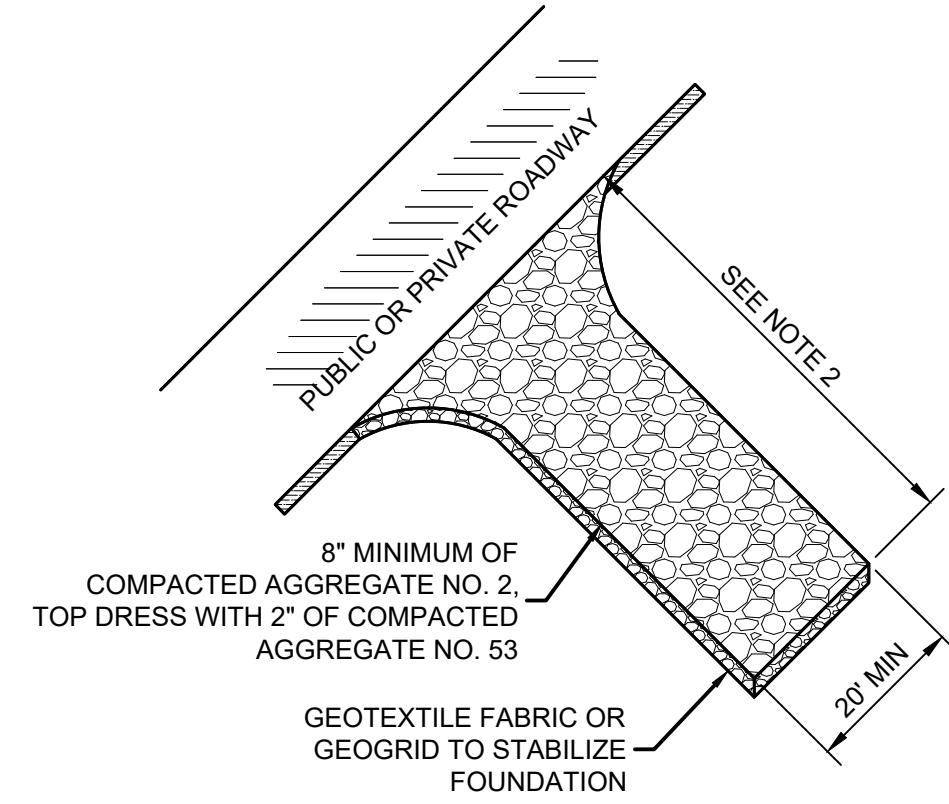
MAINTENANCE:
 1. INSPECT PERIMETER BARRIERS AFTER EACH RAINFALL. REPAIR OR REPLACE IMMEDIATELY.
 2. REMOVE SEDIMENT DEPOSITS FROM THE SILT FENCE AFTER STORM EVENTS.

HORIZONTAL BORED CROSSING
SCALE: NONE

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 MEASUREMENTS ARE ADDED TOGETHER TO CREATE AN EQUIVALENT DBH FOR THAT TREE.

TREE DIAMETER (DBH)	TREE PROTECTION ZONE (RADIUS FROM TRUNK)	TREE DIAMETER (DBH)	TREE PROTECTION ZONE (RADIUS FROM TRUNK)
1"	2'	26"	22'
2"	2'	27"	23'
3"	3'	28"	23'
4"	3'	29"	24'
5"	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 PROTECTION ZONE
SCALE: NONE



NOTES:
 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.

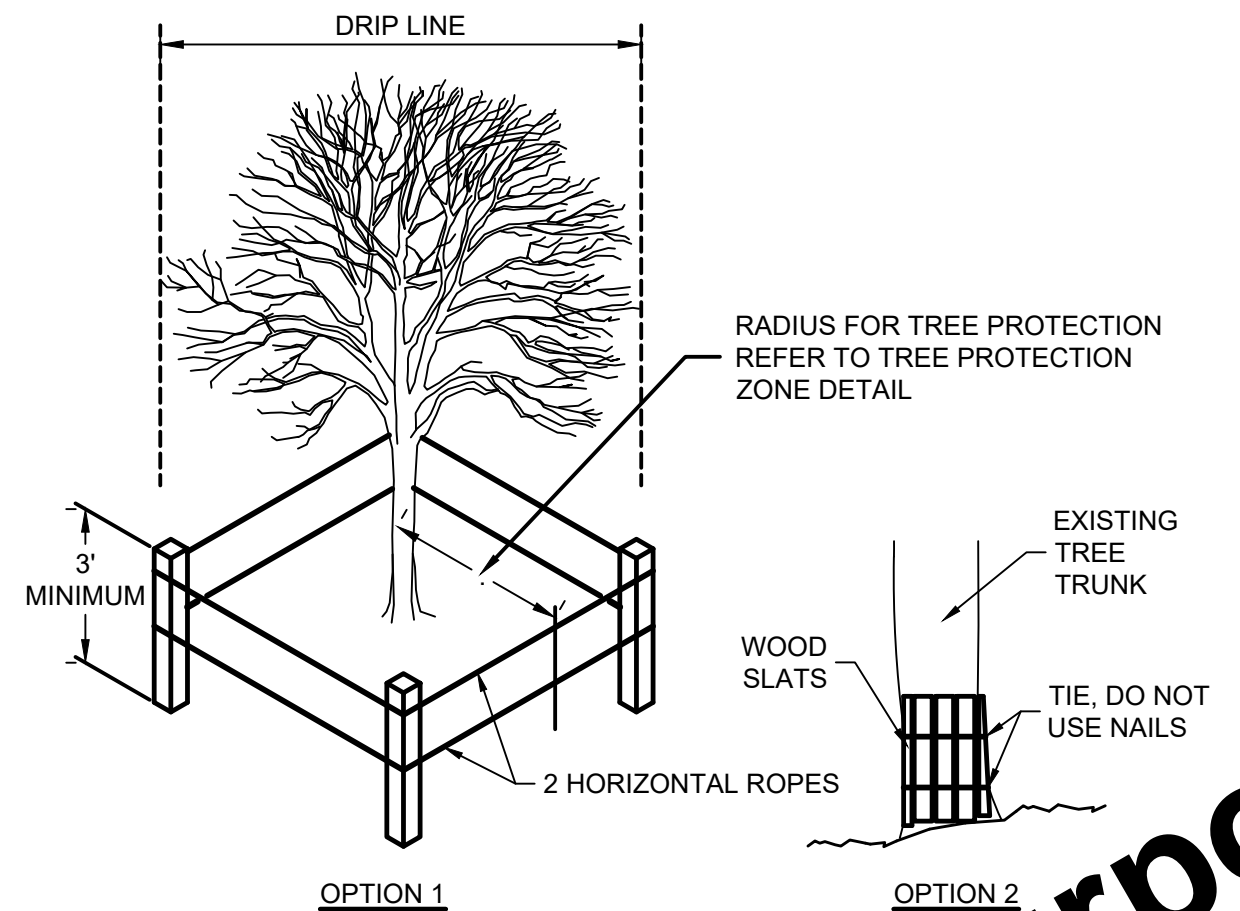
MAINTENANCE:
 1. INSPECT DAILY AND REPLACE DISPLACED STONE.
 2. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED ONTO ADJACENT ROADWAY.
 3. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
 4. AT COMPLETION OF PROJECT COMPLETELY REMOVE AND RESTORE SITE TO ORIGINAL CONDITIONS, OR AS APPLICABLE USE FOR BASE OF NEW PERMANENT DRIVE, MAINTAINING DESIGN ELEVATIONS AND SECTION.

CONSTRUCTION ENTRANCE
SCALE: NONE

EROSION CONTROL SCHEDULE	
CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
PRECONSTRUCTION ACTIVITIES: POST THE FOLLOWING INFORMATION NEAR THE MAIN ENTRANCE OF THE PROJECT SITE OR AT A PUBLICLY ACCESSIBLE LOCATION: NOTICE OF INTENT (NOI) DOCUMENT, COPY OF THE PUBLIC NOTICE, NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NUMBER, NAME, ADDRESS, AND PHONE NUMBER OF THE LOCAL CONTACT PERSON, AND LOCATION OF A COPY OF THE CONSTRUCTION DRAWINGS AND STORMWATER POLLUTION PREVENTION PLAN (SWP3).	AUTHORIZATION UNDER THE CSGP IS EFFECTIVE 48-HOURS AFTER SUBMITTAL OF THE NOTICE OF INTENT TO IDEM AND LOCAL AUTHORITY BY THE OWNER.
MAINTAIN DOCUMENTATION ON-SITE PER SPECIFICATION 02101 FOR THE PROJECT MANAGEMENT LOG. THE SWPPP SHOULD BE ONSITE AND SELF-MONITORING INSPECTION REPORTS MUST BE AVAILABLE WITHIN 48 HOURS OF REQUEST. INFORM OR TRAIN PERSONNEL ASSOCIATED WITH THE PROJECT OF THE TERMS AND CONDITIONS OF THE CSGP AND THE SWPPP REQUIREMENTS.	COMPLETE BEFORE CONSTRUCTION BEGINS.
REVIEW THE EROSION CONTROL SCHEDULE WITH THE DRAWINGS AND REVISE AS NEEDED TO ADJUST 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.	
CONSTRUCTION ACCESS - ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR WASTE HANDLING.	THIS IS THE FIRST LAND-DISTURBING ACTIVITY. AS SOON AS CONSTRUCTION BEGINS, STABILIZE ANY BARE AREAS WITH AGGREGATE AND TEMPORARY VEGETATION.
SEDIMENT TRAPS AND BARRIERS - BASIN TRAPS, SILT FENCE AND PERIMETER PROTECTION.	AFTER CONSTRUCTION IS ACCESSED, BASINS SHALL BE INSTALLED, WITH THE ADDITION OF MORE TRAPS AND BARRIERS AS NEEDED DURING GRADING. SET UP PROTECTION FOR NATURAL FEATURES, TREES AND BUFFERS.
RUNOFF CONTROL - DIVERSIONS, PERIMETER PROTECTION, CHECK DAMS, OUTLET PROTECTION.	RUNOFF CONTROL PRACTICES SHALL BE INSTALLED AFTER THE INSTALLATION OF SEDIMENT TRAPS AND BEFORE LAND GRADING. ADDITIONAL RUNOFF CONTROL MEASURES MAY BE INSTALLED DURING GRADING.
RUNOFF CONVEYANCE SYSTEM - STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.	AS NECESSARY, STABILIZE STREAM BANKS AND SIDE SLOPES OF RUNOFF SYSTEMS AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKETS OR SLOPE DRAINS TO PREVENT EROSION. INSTALL INLET PROTECTION TO PREVENT SEDIMENTS FROM ENTERING STORM DRAINAGE SYSTEMS. PROTECT STORM OUTLETS TO PREVENT EROSION.
LAND CLEARING AND GRADING - SITE PREPARATION (CUTTING, FILLING, AND GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING).	IMPLEMENT CLEARING AND GRADING AFTER INSTALLATION OF SEDIMENT TRAPS AND RUNOFF CONTROL MEASURES, AND INSTALL ADDITIONAL CONTROL MEASURES AS GRADING CONTINUES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED.
SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET.	APPLY TEMPORARY OR PERMANENT STABILIZING MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED.
CONSTRUCTION - STRUCTURES, UTILITIES, PAVING, CONCRETE WASHOUT, AND CONSTRUCTION ENTRANCES.	DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED.
LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE ALL TEMPORARY CONTROL MEASURES. FINAL STABILIZATION IS WHEN A UNIFORM DENSITY OF 70% VEGETATION COVER IS MET. PROVIDE NOTIFICATION TO THE OWNER WHEN THE ENTIRE SITE HAS BEEN STABILIZED AND ALL CONSTRUCTION MATERIALS, WASTES, AND EQUIPMENT HAVE BEEN REMOVED.

EROSION CONTROL SCHEDULE
SCALE: NONE

EROSION CONTROL BLANKET
SCALE: NONE



NOTES:
 1. PROTECT TREES WHERE NOTED ON THE DRAWINGS DURING CONSTRUCTION TO PROTECT TREE ROOTS.
 2. OPTION 1 SHALL BE THE STANDARD TREE PROTECTION METHOD. MULTIPLE TREES MAY BE PROTECTED BY A SINGLE SET OF PERIMETER ROPES PROVIDED THE APPROPRIATE TREE PROTECTION ZONE IS MAINTAINED FOR EACH TREE.
 3. OPTION 2 TREE PROTECTION METHOD MAY BE USED TO PREVENT BARK REMOVAL OR DAMAGE TO THE TRUNK OF THE TREE.

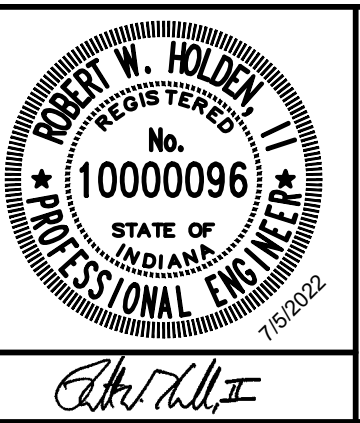
MAINTENANCE:
 1. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
 2. REPAIR PERIMETER BARRIERS AS DAMAGED.
 3. INSPECT FOR DAMAGE TO TREE DURING CONSTRUCTION ACTIVITIES. REPAIR WOUNDS SIMPLY BY REMOVING DAMAGED BARK AND WOOD TISSUE. DO NOT USE TREE PAINT.
 4. CABLE AND BRACE TRUNK SPLITS, WEAK FORKS, AND LARGE LIMBS.

TREE PROTECTION METHODS
SCALE: NONE

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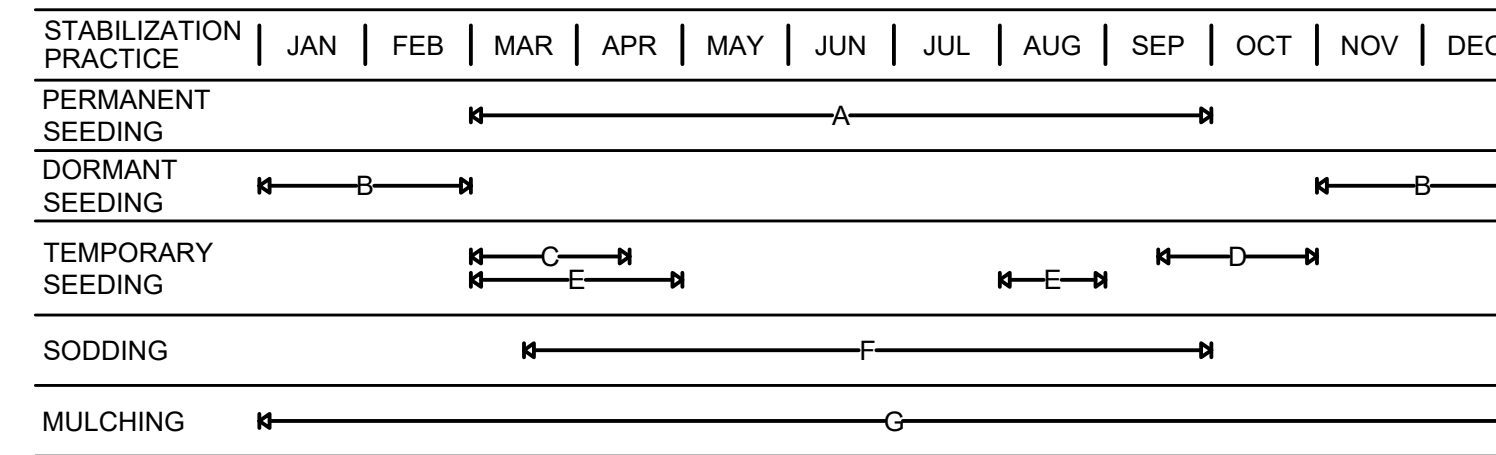
EAST SERVICE AREA WATER AND SEWER EXTENSIONS

CITY OF MARTINSVILLE, INDIANA

EROSION CONTROL DETAILS

SHEET NO.	24
TOTAL SHEETS	28

SEASONAL SOIL PROTECTION CHART



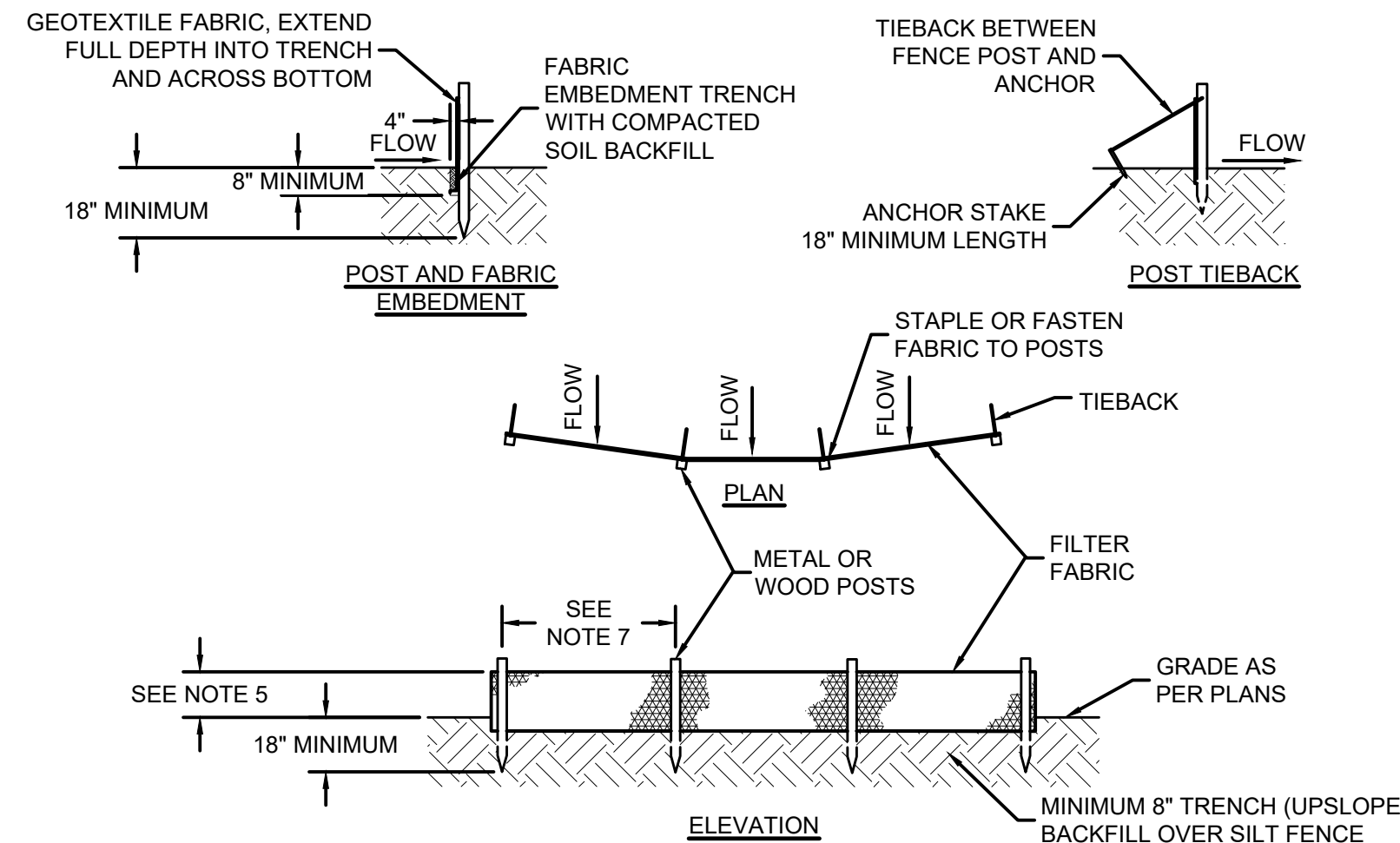
- A = KENTUCKY BLUEGRASS 40 LB/ACRE
- B = KENTUCKY BLUEGRASS 210 LB/ACRE
- C = SPRING OATS 100 LB/ACRE (1" PLANTING DEPTH)
- D = WHEAT OR RYE 150 LB/ACRE (1" - 1.5" PLANTING DEPTH)
- E = ANNUAL RYEGRASS 40 LB/ACRE (1/4" PLANTING DEPTH)
- F = SOD
- G = ANCHORED STRAW/HAY (2 TONS/ACRE) OR WOOD FIBER/CELLULOSE (1 TON/ACRE)

NOTES:

1. IRRIGATION NEEDED DURING MAY THROUGH SEPTEMBER.
2. IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.
3. ANCHORED MULCH IS REQUIRED FOR PERMANENT, DORMANT AND TEMPORARY SEEDING.
4. OPTIMUM SEEDING DATES PROVIDED. DATES MAY BE EXTENDED OR SHORTENED BASED ON PROJECT LOCATION.
5. SEED MIXTURES PROVIDED FOR LAWNS AND HIGH MAINTENANCE AREAS.

MAINTENANCE:

1. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. CHECK FOR EROSION AND MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
3. MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (70% DENSITY).
4. RESEED, FERTILIZE OR APPLY MULCH WHERE NECESSARY.



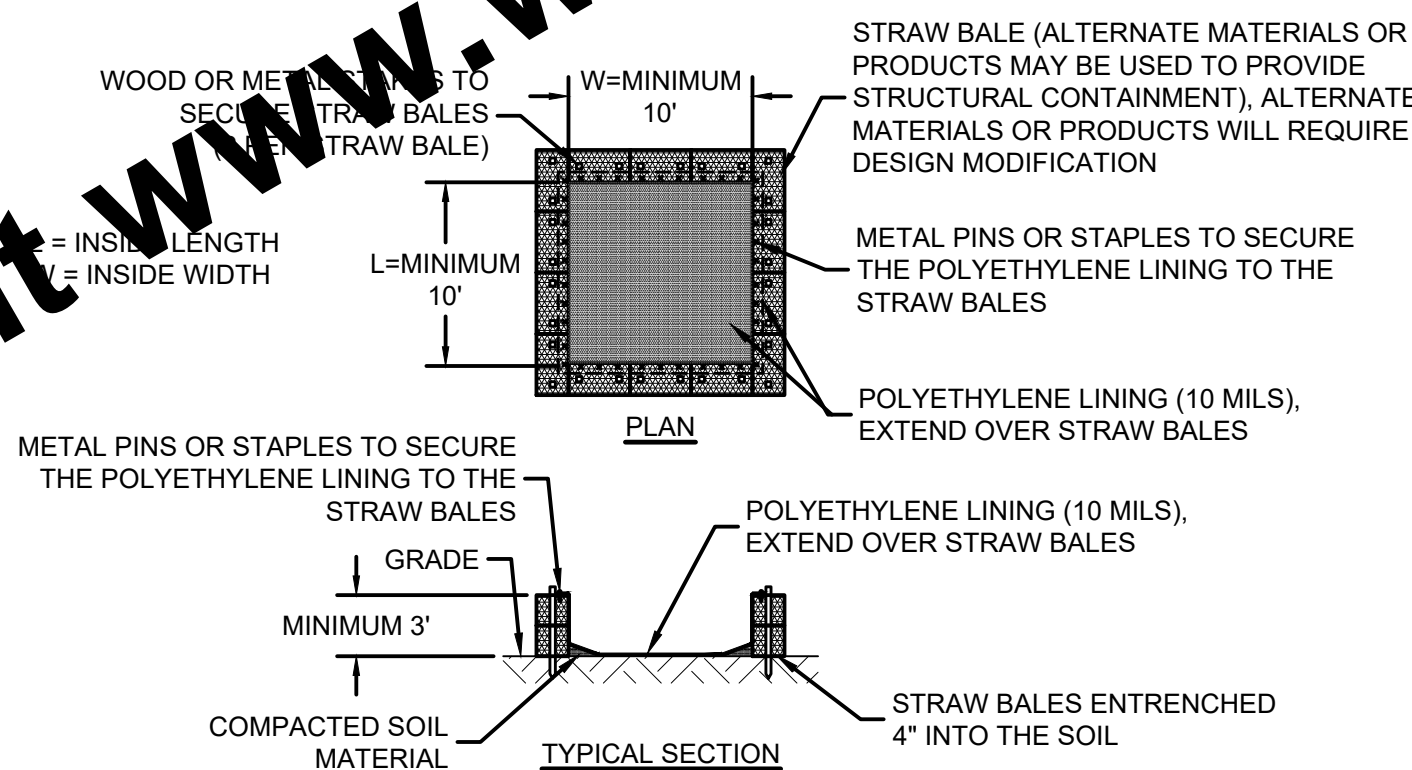
NOTES:

1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
 - a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632.
 - b. WOVEN EXTRA STRENGTH - 50 LB/LINEAR INCH (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/INCH (MINIMUM).
 - c. WOVEN STANDARD STRENGTH - 30 LB/LINEAR INCH (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/INCH (MINIMUM).
 - d. APPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), ASTM D4751.
 - e. PERMITTIVITY - 0.05 S⁻¹ (MAXIMUM), ASTM D4491.
2. POSTS FOR SILT FENCES SHALL BE EITHER 2"x2" SQUARE WOOD OR EQUIVALENT METAL POSTS WITH A MINIMUM LENGTH OF 5'. METAL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
3. ANCHOR STAKES FOR SILT FENCES SHALL BE 1"x2" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 18".
4. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42" IN HEIGHT, A MINIMUM OF 14 GAUGE, AND SHALL HAVE A MAXIMUM MESH SPACING OF 6".
5. THE HEIGHT OF THE BARRIER SHALL BE A MINIMUM OF 18" AND A MAXIMUM OF 30".
6. THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALED.
7. POSTS SHALL BE SPACED A MAXIMUM OF 6' APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 6" BELOW STANDARD STRENGTH FABRIC IS USED WITH THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 8').
8. THE SPACING OF TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED ON UNSTABLE SOILS.
9. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND A MINIMUM OF 8" DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
10. WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE IT SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1" WIRE STAPLES, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.
11. THE STANDARD STRENGTH FILTER FABRIC, WITHOUT A WIRE MESH SUPPORT FENCE, SHALL BE STAPLED TO THE FENCE, AND A MINIMUM 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE. DO NOT STAPLE FILTER FABRIC TO EXISTING TREES.
12. WHEN EXTRA STRENGTH FILTER FABRIC OR BURLAP AND POST SPACING IS LESS THAN THE MINIMUM SPECIFIED SPACING OF 6', THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED.
13. BACKFILL THE TRENCH AND COMPACT THE SOIL OVER THE FILTER FABRIC.
14. REMOVE SILT FENCES WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
15. SILT FENCE SHALL NOT BE USED AS A DIVERSION AND SHALL NOT BE INSTALLED ACROSS A STREAM, CHANNEL, DITCH, SWALE, ETC.

MAINTENANCE:

1. INSPECT AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. REPLACE OR REPAIR FABRIC IMMEDIATELY IF IT DEFORMS OR IS INEFFECTIVE.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
4. SPREAD ANY SEDIMENT DEPOSITS REMOVED IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED AND DRESS TO CONFORM WITH THE FINISHED GRADING.

SILT FENCE
SCALE: NONE



NOTES:

1. LOCATE WASHOUTS AT LEAST 50' FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES, OR STORM DRAIN/CONVEYANCES.

WASHOUT PROCEDURES:

1. DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER POURING CONCRETE. MAKE EVERY EFFORT TO EMPTY THE CHUTE AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT FLOW TO AN AREA THAT IS TO BE PROTECTED.
2. SCRAPE 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.

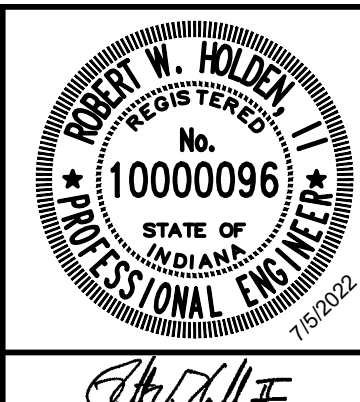
MAINTENANCE:

1. MAINTENANCE REQUIREMENTS PROVIDED IN SPECIFICATIONS.

CONCRETE WASHOUT
SCALE: NONE

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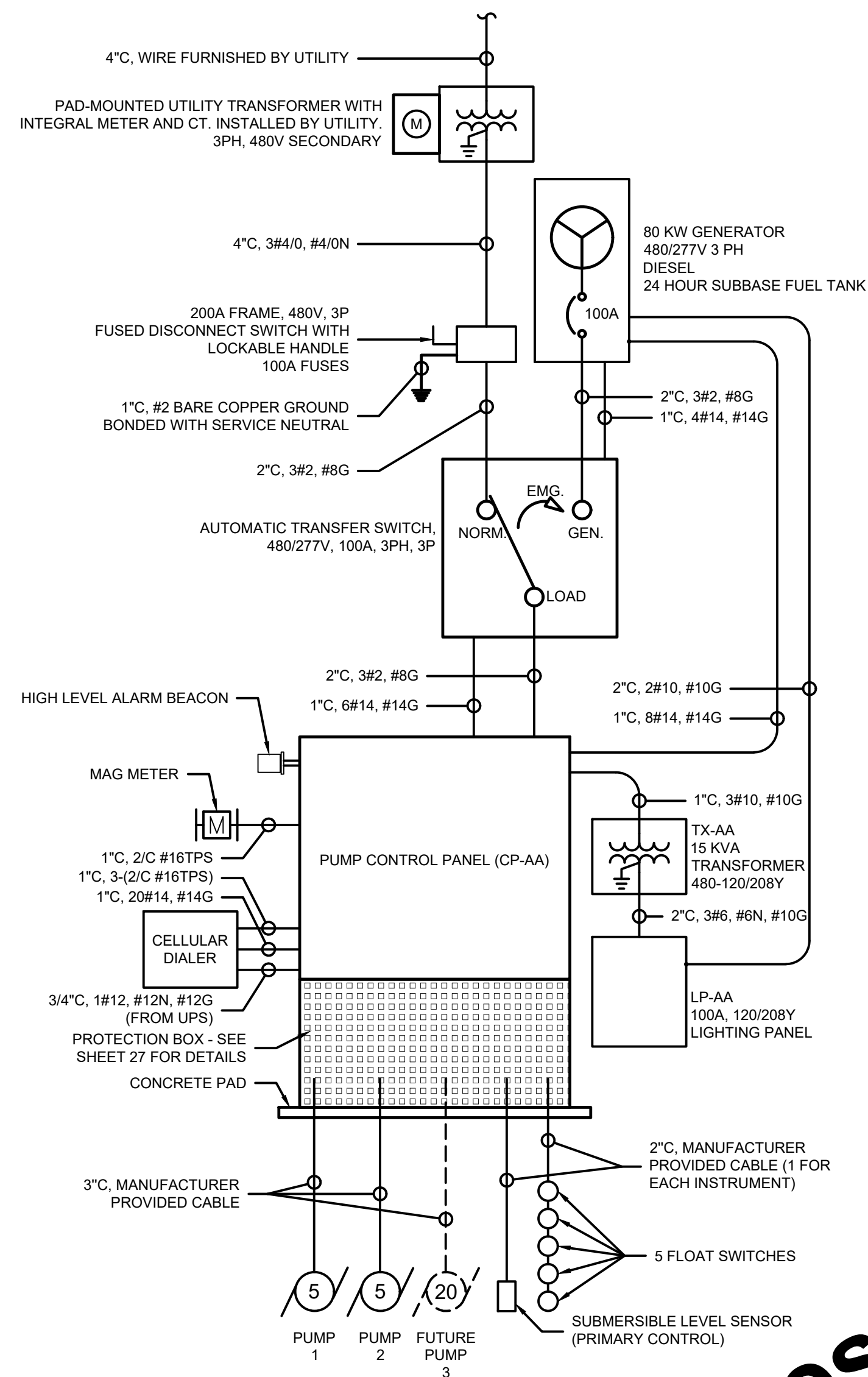
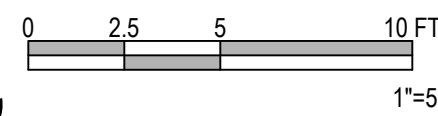
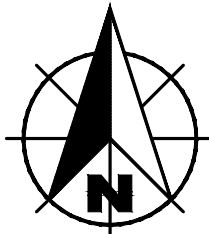
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	APPROVED BY	RWH				
	ISSUE DATE	JULY 2022				
	PROJECT NUMBER	245521-04-001				



EAST SERVICE AREA WATER AND SEWER EXTENSIONS	
CITY OF MARTINSVILLE, INDIANA	
EROSION CONTROL DETAILS	

SHEET NO.	25
TOTAL SHEETS	28

Drawing: J:\Martinsville\Projects\245521-04-001\245521-04-001.dwg | Layout: 24-EROSION CONTROL DETAILS | Plotter: 07/05/22 @ 1:21:59 | LastSavedBy: revsl



ARTESIAN AVENUE LIFT STATION ONE-LINE DIAGRAM
SCALE: NONE

PANEL SCHEDULE		DESIGNATION: LP-AA LOCATION: ARTESIAN AVENUE LIFT STATION VOLTAGE: 120/208 V AC PHASE: 3 PHASE, 4 WIRE					MAINS: 60 AMP MAIN CIRCUIT BREAKER BUS SIZE: 100 AMP PANEL MOUNTING: SURFACE ALL BREAKERS: 10000 A.I.C. (MINIMUM)							
CKT. NO.	LOAD DESCRIPTION	#	KVA	CKT. BKR.			KVA			CKT. BKR.			LOAD DESCRIPTION	CKT. NO.
				AMPS	POLE		A	B	C	AMPS	POLE			
1	GENERATOR BLOCK HEATER	2	1.50	20	2	3.50			20	3	2.00	3	AC UNIT	2
3			1.50		1		3.50				2.00			4
5	GENERATOR BATTERY CHARGER	1	0.20	20	1			2.20			2.00			6
7	GENERATOR COURTESY RECEPTACLE	1	1.00	20	1	1.20			20	1	0.20	1	FLOW METER	8
9	SPARE			20	1		0.00		20	1			SPARE	10
11	CONVENIENCE RECEPTACLE	1	1.00	20	1			1.00	20	1			SPARE	12
13	SPARE			20	1	0.00			20	1			SPARE	14
15	SPARE			20	1		0.00		20	1			SPARE	16
17	SPARE			20	1			0.00	20	1			SPARE	18
TOTAL CONNECTED LOAD:						4.70	3.50	3.20	TOTAL =			11.40	KVA	
# ONE (1) OR TWO (2) DIGIT NUMBERS REFER TO CONDUIT & WIRE SCHEDULE ON THIS SHEET.														

120/208V LIGHTING PANEL SCHEDULE (LP-AA)
SCALE: NONE

GENERAL NOTES:

- LOCATE ALL EXISTING UTILITIES AND PIPING PRIOR TO CONSTRUCTION
- ALL ENCLOSURE TO BE NEMA 4X S.S.
- ALL PUMP MOTORS SHALL BE INVERTER DUTY RATED AND OPERATED BY VFDS WITH A MATCHING HORSEPOWER RATING.
- SEE SHEET 28 FOR LIGHTING FIXTURE MOUNTING DETAILS.

CONDUIT & WIRE SCHEDULE:

- 1 3/4" C, #12, #12N, #12G
- 2 3/4" C, 2#12, #12G
- 3 3/4" C, 3#12, #12G

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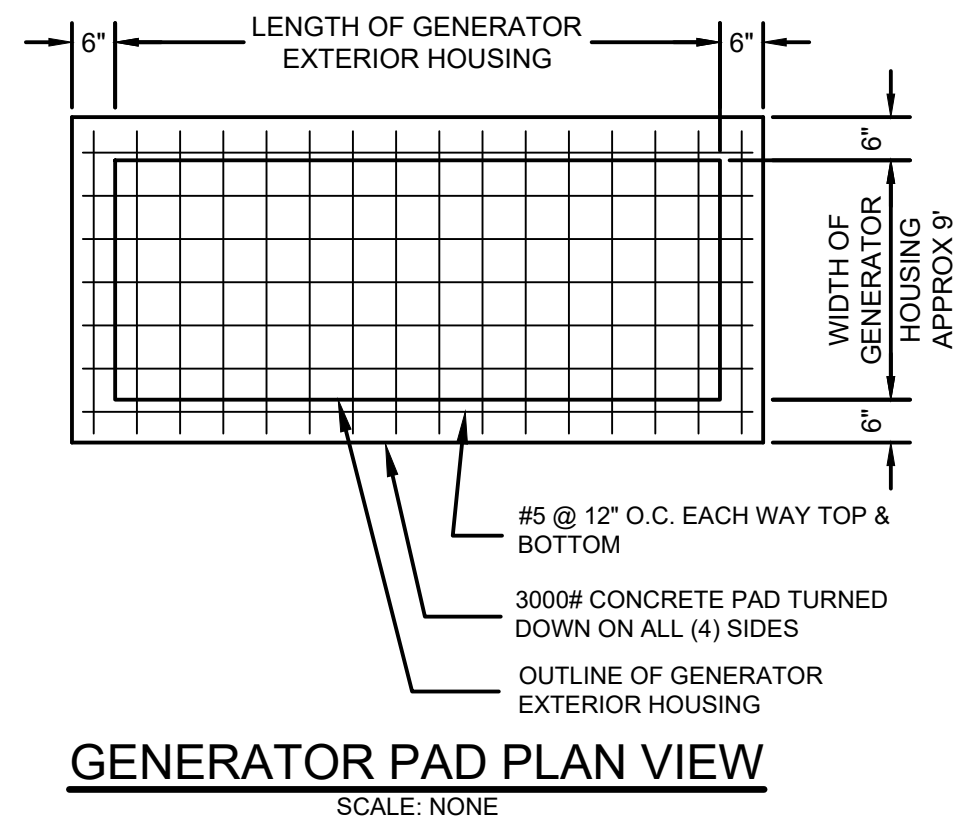
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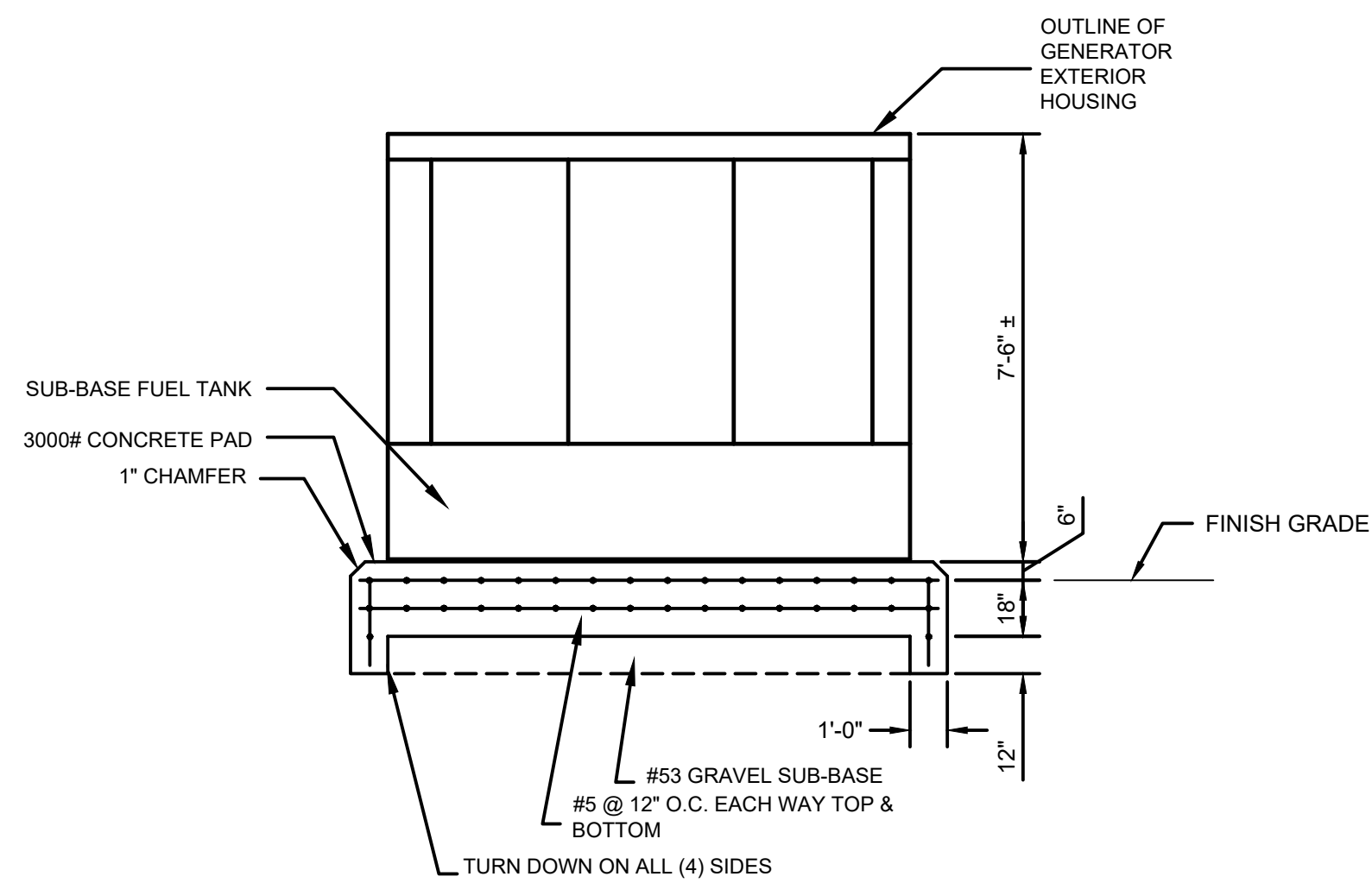


EAST SERVICE AREA WATER AND SEWER EXTENSIONS	
CITY OF MARTINSVILLE, INDIANA	
ONE-LINE AND PANEL SCHEDULE	

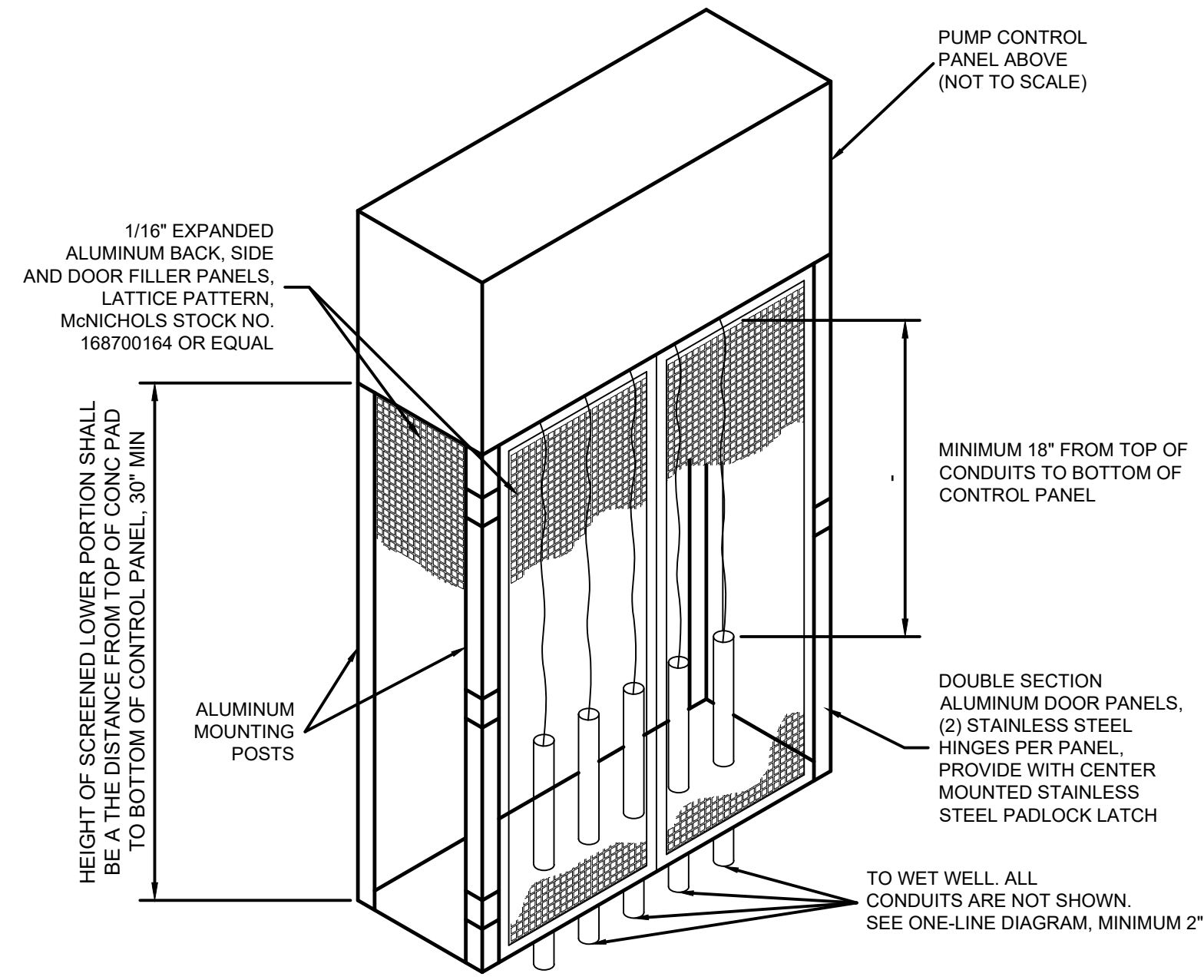
SHEET NO.	26
TOTAL SHEETS	28



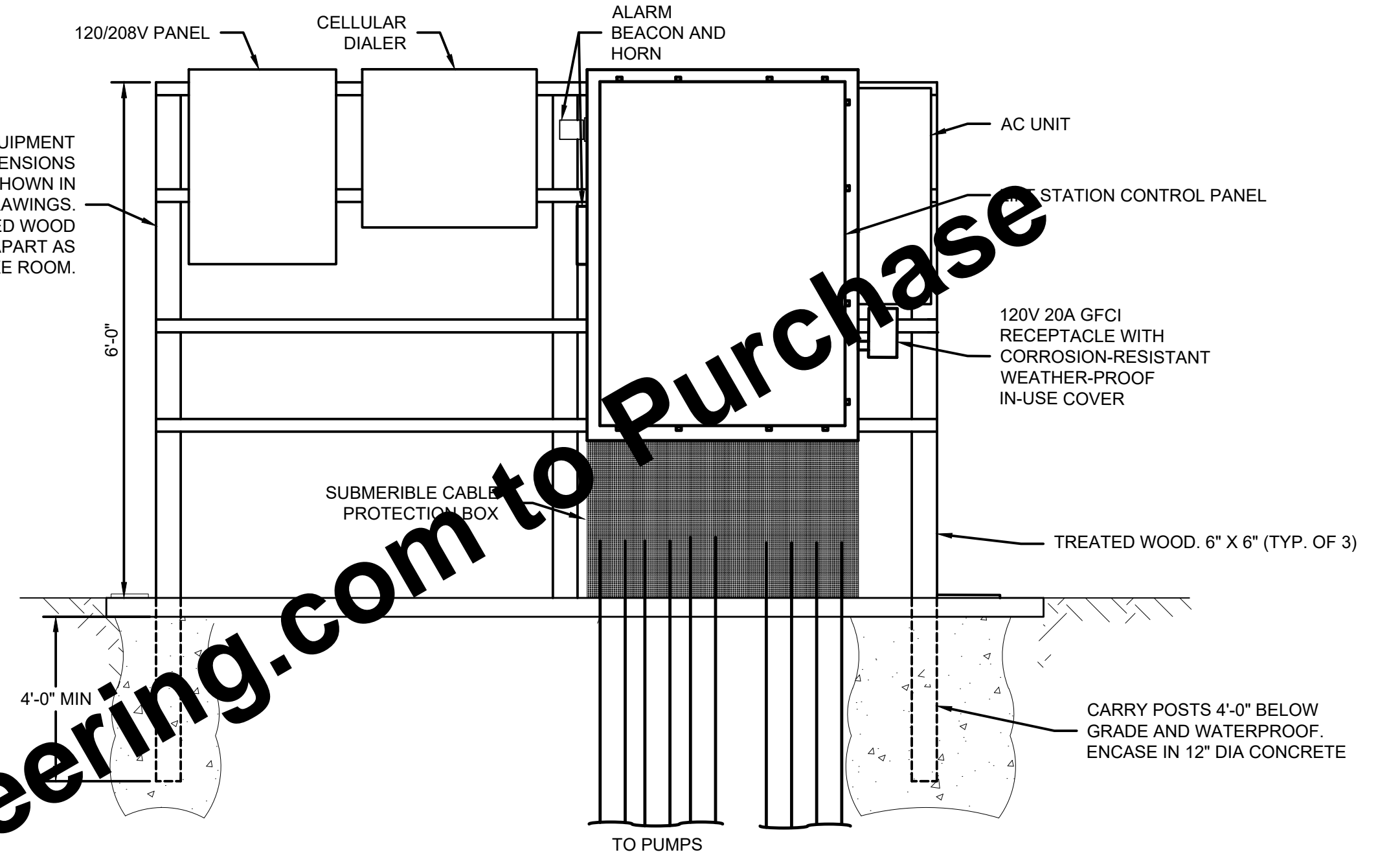
GENERATOR PAD PLAN VIEW
SCALE: NONE



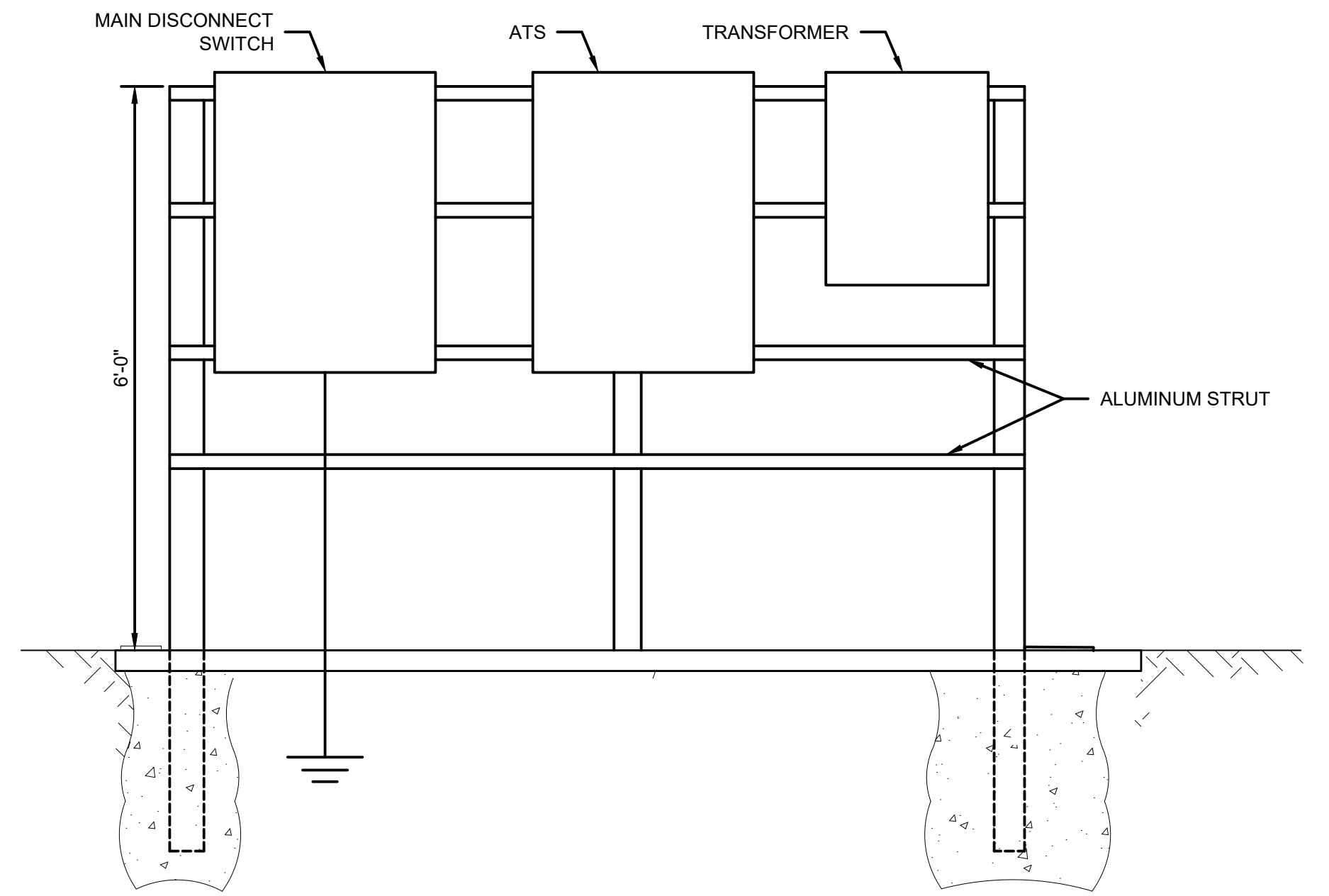
GENERATOR PAD SECTION VIEW
SCALE: NONE



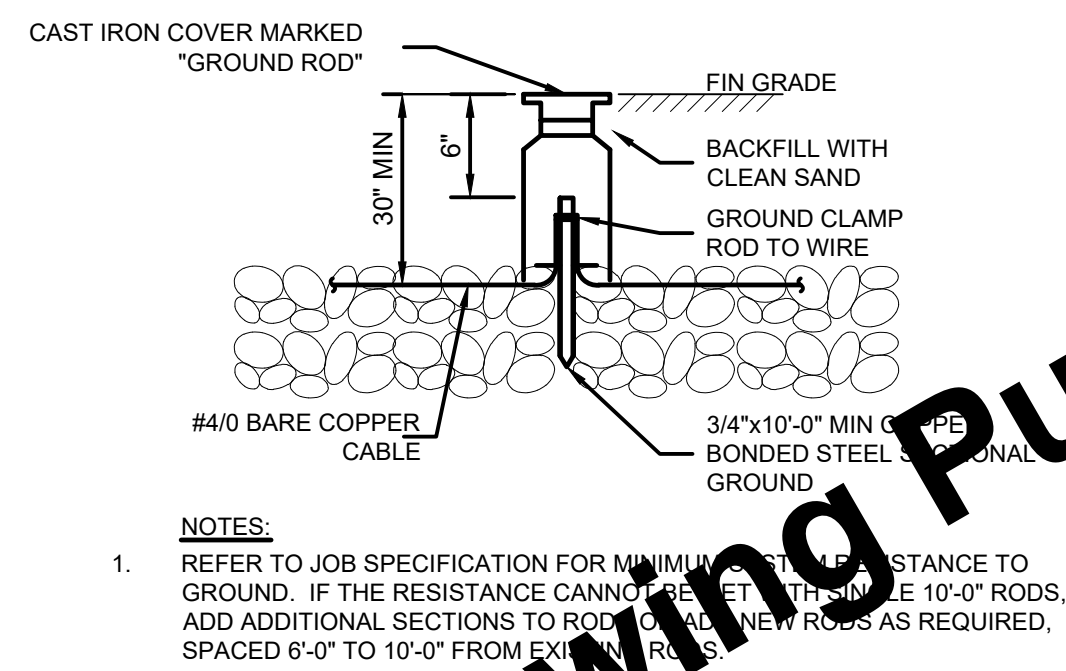
SUBMERSIBLE CABLE PROTECTION BOX
SCALE: NONE



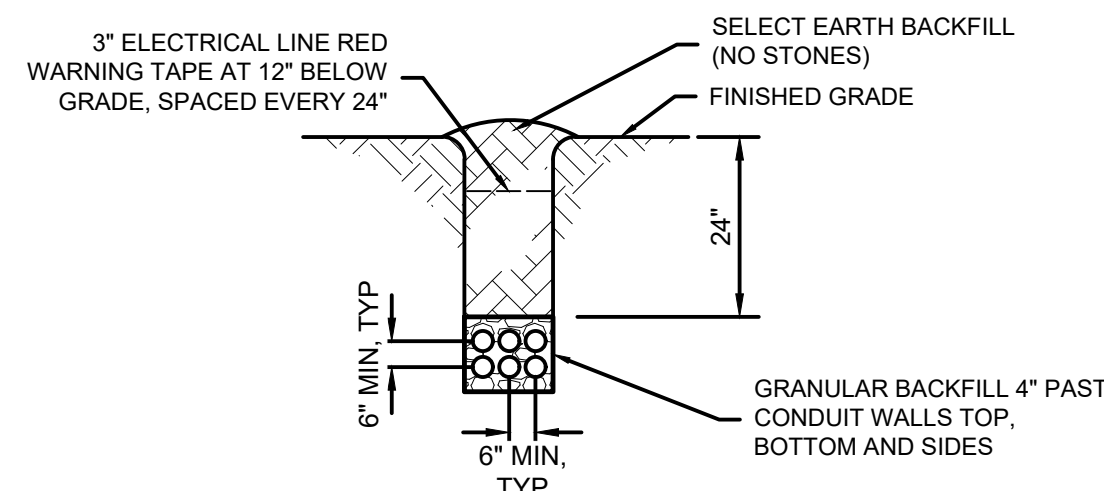
FIELD PANEL MOUNTING NORTH SIDE SECTION VIEW
SCALE: NONE



FIELD PANEL MOUNTING SOUTH SIDE SECTION VIEW
SCALE: NONE



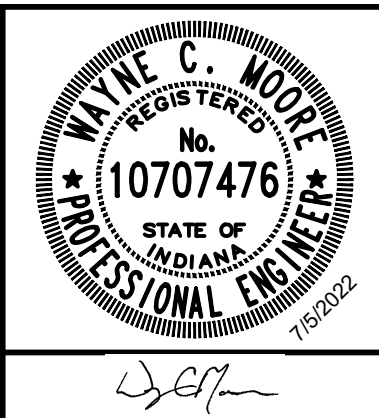
ELECTRICAL INSTALLATION GROUND ROD ASSEMBLY
SCALE: NONE



CONDUIT TRENCH
SCALE: NONE

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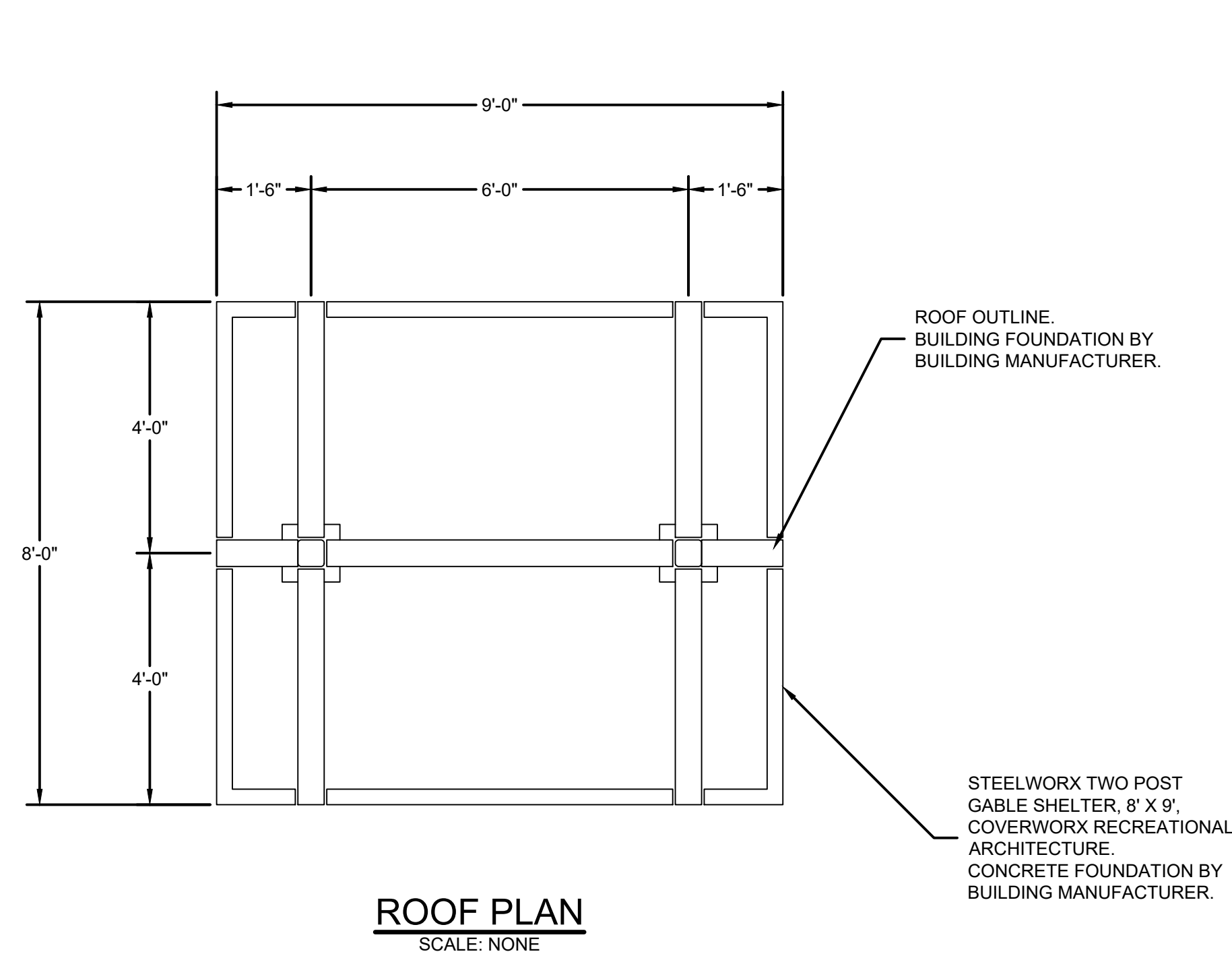
EAST SERVICE AREA WATER AND SEWER EXTENSIONS

CITY OF MARTINSVILLE, INDIANA

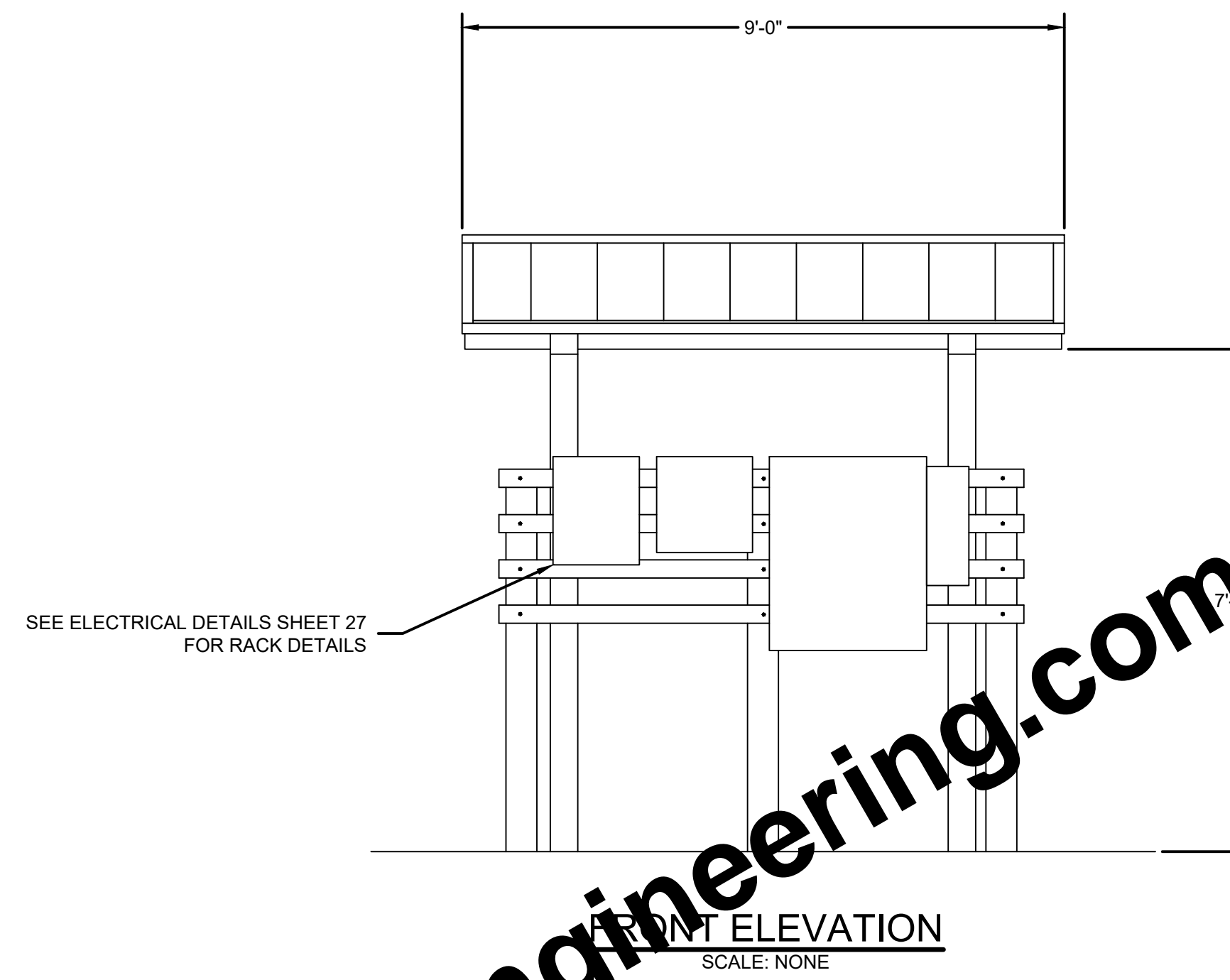
ELECTRICAL DETAILS

SHEET NO.	27
TOTAL SHEETS	28

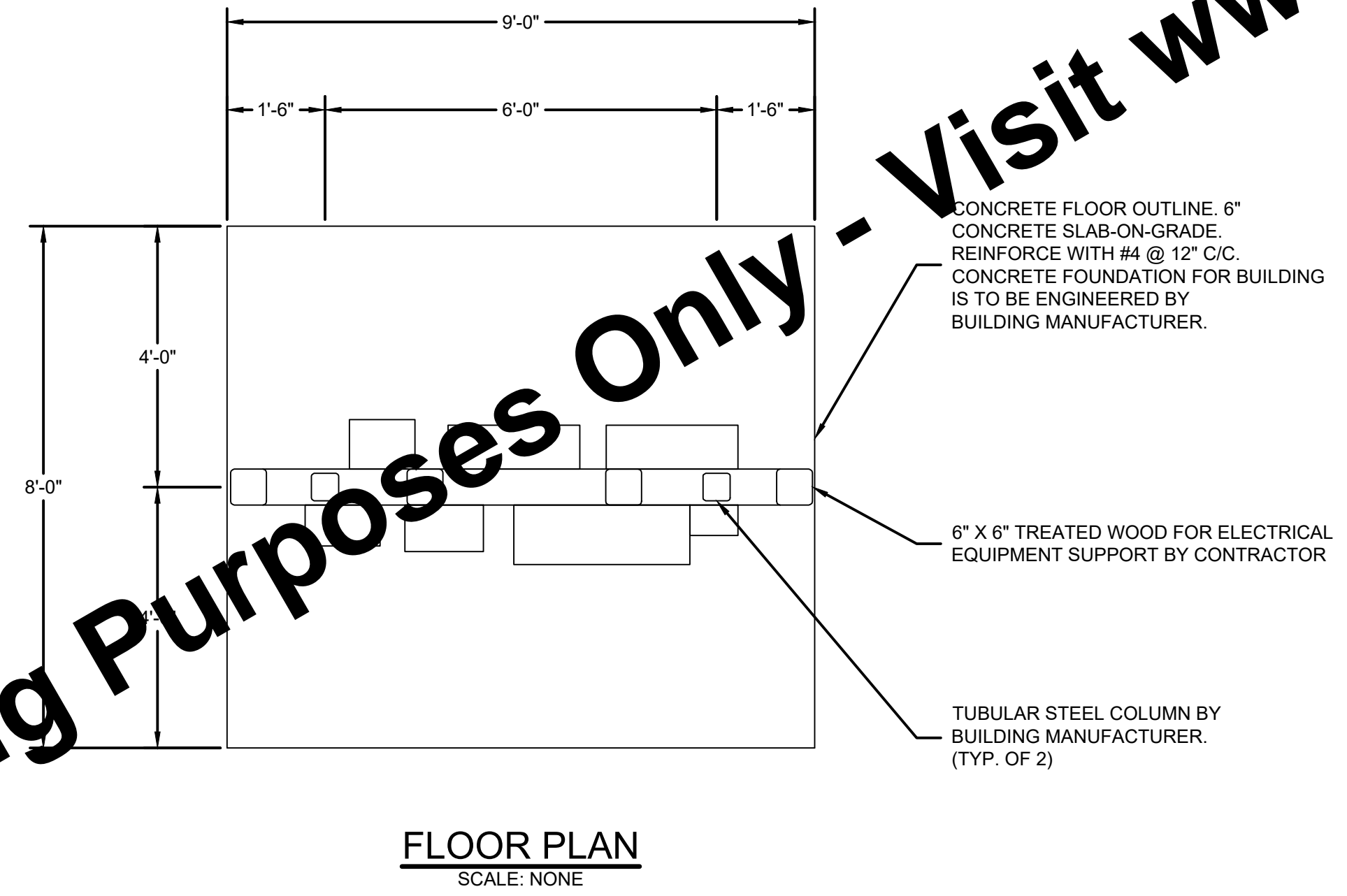
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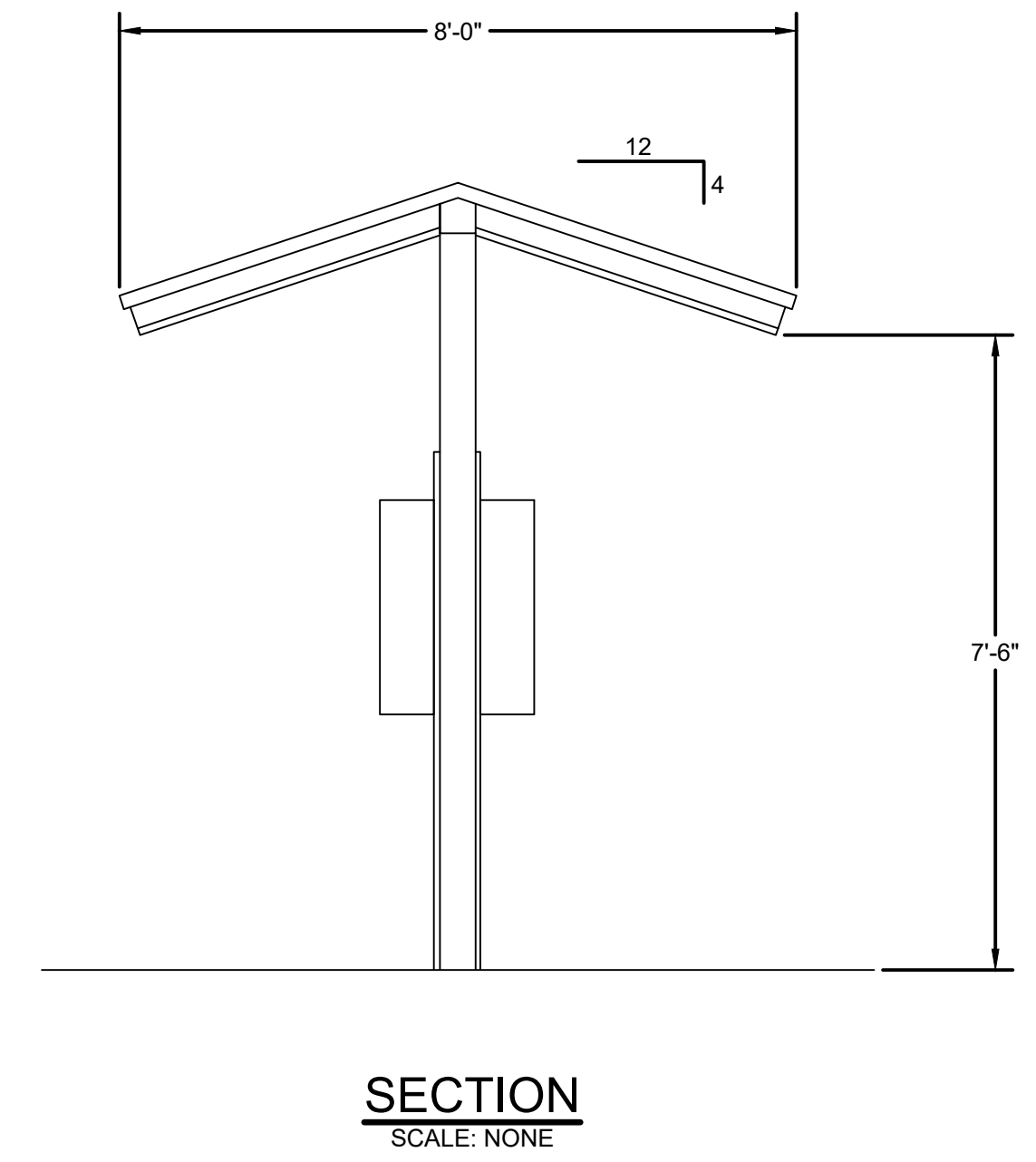
ROOF PLAN
SCALE: NONE



FRONT ELEVATION
SCALE: NONE



FLOOR PLAN
SCALE: NONE




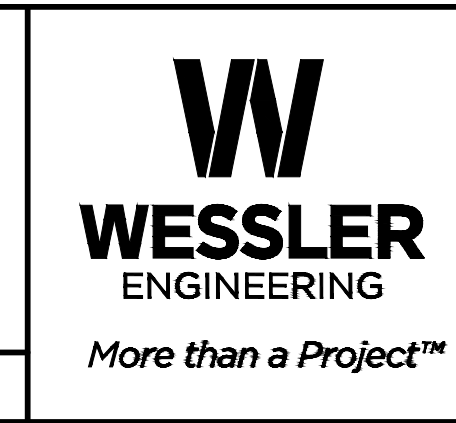
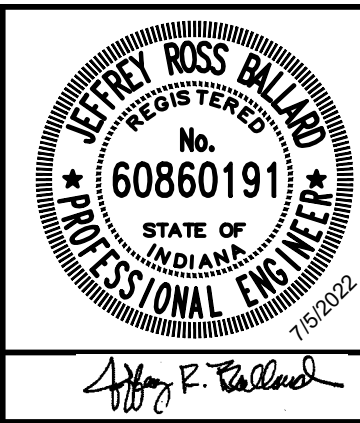
SECTION
SCALE: NONE

- NOTES:**
- SEE ELECTRICAL DETAILS (SHEET 27) FOR CABINET DETAILS
 - SEE SHEET 26 FOR LIGHTING FIXTURE SCHEDULE.
 - ELECTRICAL EQUIPMENT SHALL BE SUPPORTED BY COLUMNS SEPARATE FROM ROOF STRUCTURE COLUMNS. ELECTRICAL EQUIPMENT SHALL NOT BE CONNECTED TO ROOF STRUCTURE/COLUMNS.

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	245521-04-001					



EAST SERVICE AREA WATER AND SEWER EXTENSIONS
CITY OF MARTINSVILLE, INDIANA
CONTROL PANEL ROOF STRUCTURE DETAILS

SHEET NO.	28
TOTAL SHEETS	28