

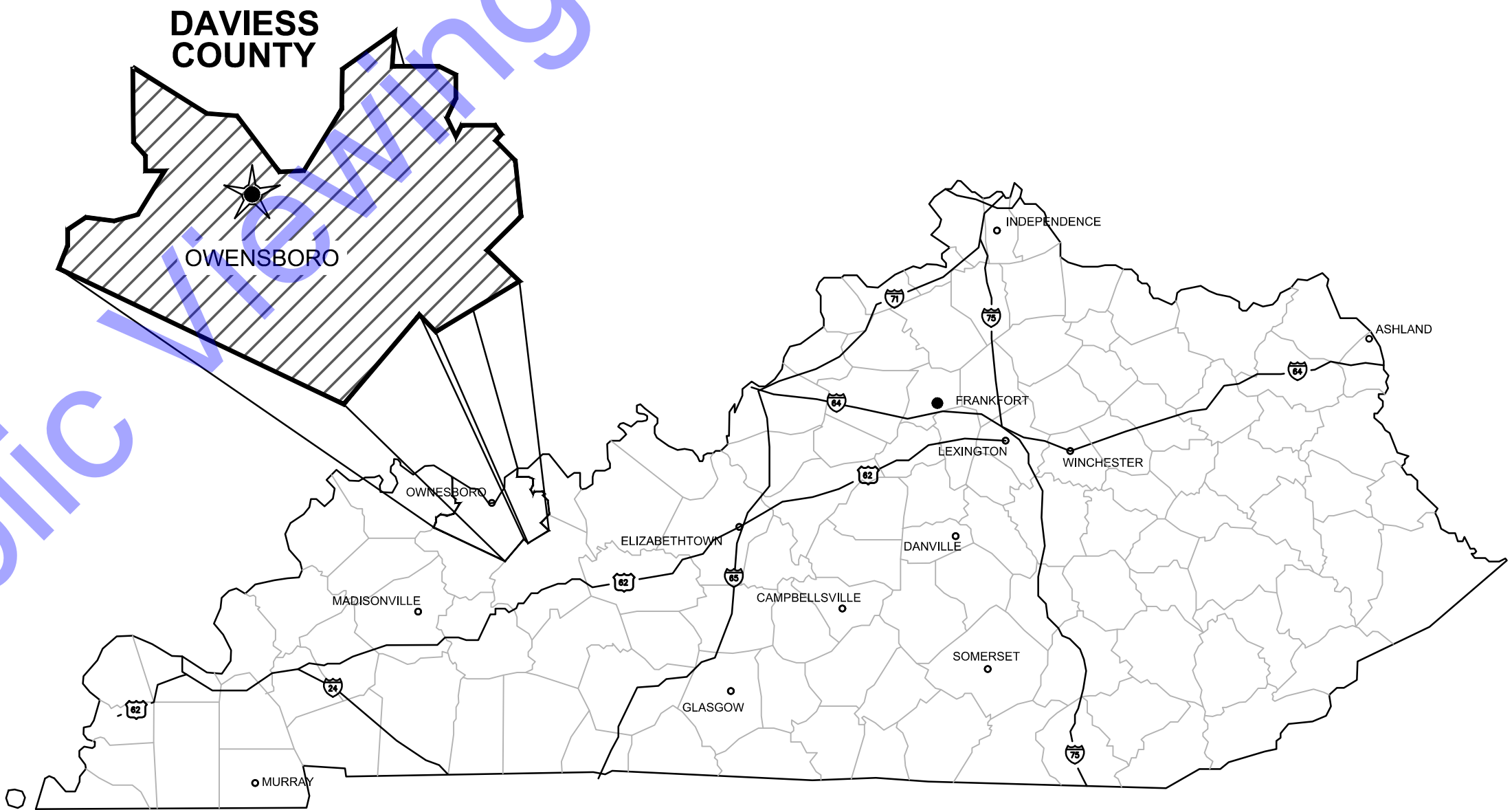
REGIONAL WATER RESOURCE AGENCY



LOCUST STREET FORCE MAIN REPLACEMENT AUGUST 2026

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GENERAL LOCATION MAP

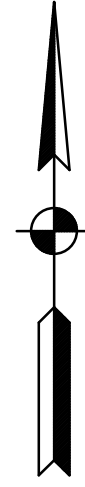
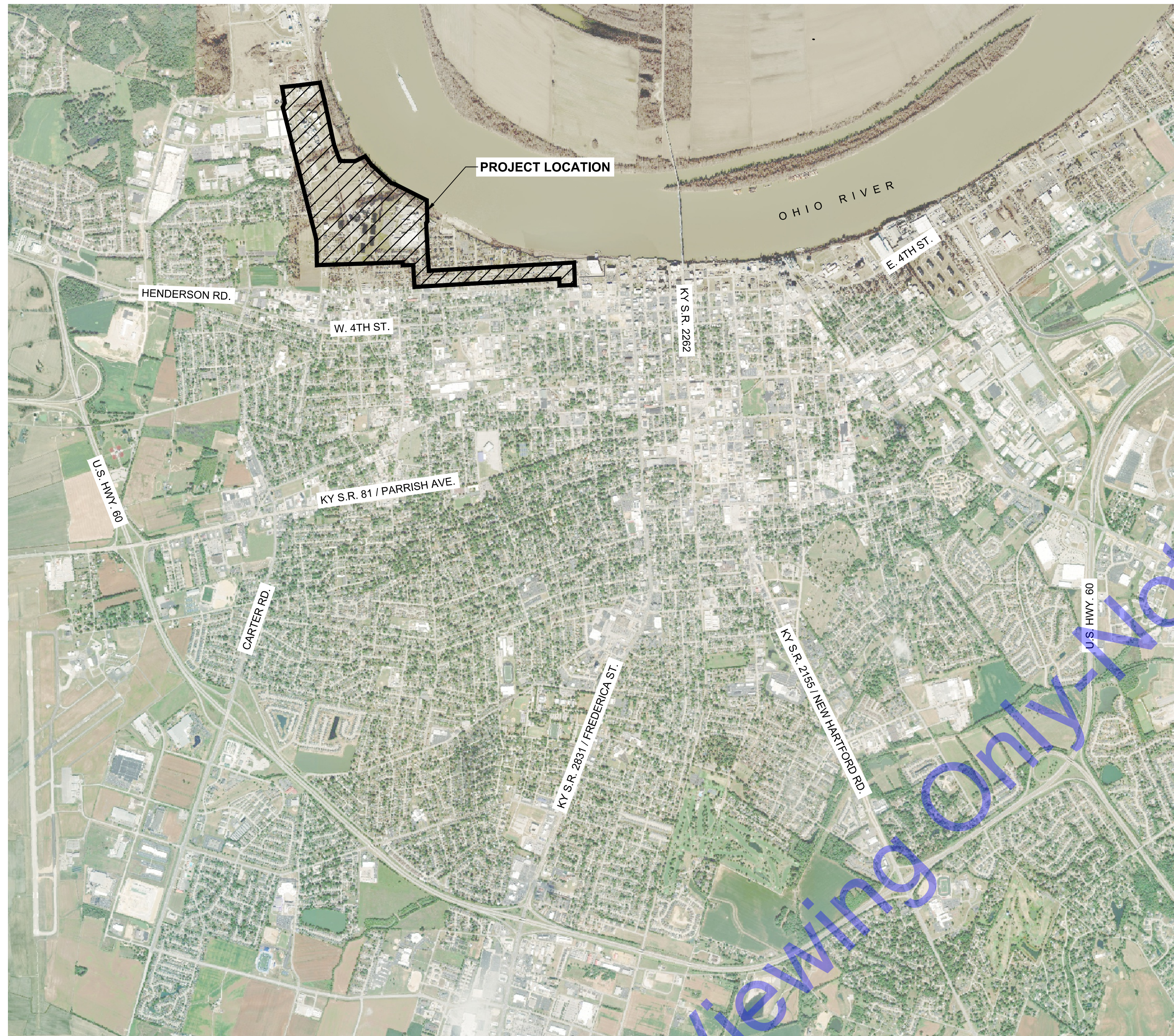


QA/QC BY : _____
DATE : 8/21/2026

CERTIFIED BY : _____
DATE : 8/21/2026
TRAVIS S. HARPER, P.E.
KENTUCKY P.E. No. 37687

CONTRACT NO. : S25105

FOR CMAR
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GENERAL LOCATION MAP

SCALE: 1"=2000'-0"

DRAWING SET INDEX		
SHEET NO.	DRAWING NO.	SHEET TITLE
GENERAL		
01	G-01	COVER SHEET
02	G-02	GENERAL LOCATION MAP AND DRAWING SET INDEX
03	G-03	GENERAL ABBREVIATIONS, LEGENDS, SYMBOLS AND NOTES
04	G-04	SURVEY CONTROL PLAN
05	G-05	DRAWING INDEX MAP I
06	G-06	DRAWING INDEX MAP II
07	G-07	CONTRACTOR LAY-DOWN AREA PLAN
CIVIL		
08	C-1	WWTP SITE PIPING PLAN
09	C-2	HEADWORKS SANITARY PIPING IMPROVEMENTS PLAN AND SECTION
10	PP1-1	FORCE MAIN PLAN AND PROFILE LINE FM-1
11	PP1-2	FORCE MAIN PLAN AND PROFILE LINE FM-1
12	PP1-3	FORCE MAIN PLAN AND PROFILE LINE FM-1
13	PP1-4	FORCE MAIN PLAN AND PROFILE LINE FM-1
14	PP1-5	FORCE MAIN PLAN AND PROFILE LINE FM-1
15	PP1-6	FORCE MAIN PLAN AND PROFILE LINE FM-1
16	PP1-7	FORCE MAIN PLAN AND PROFILE LINE FM-1
17	PP1-8	FORCE MAIN PLAN AND PROFILE LINE FM-1
18	PP1-9	FORCE MAIN PLAN AND PROFILE LINE FM-1
19	PP1-10	FORCE MAIN PLAN AND PROFILE LINE FM-1
20	PP1-11	FORCE MAIN PLAN AND PROFILE LINE FM-1
21	PP1-12	FORCE MAIN PLAN AND PROFILE LINE FM-1
22	PP1-13	FORCE MAIN PLAN AND PROFILE LINE FM-1
23	PP1-14	FORCE MAIN PLAN AND PROFILE LINE FM-1
24	PP1-15	FORCE MAIN PLAN AND PROFILE LINE FM-1
25	PP1-16	FORCE MAIN PLAN AND PROFILE LINE FM-1
26	PP1-17	FORCE MAIN PLAN AND PROFILE LINE FM-1
27	PP1-18	FORCE MAIN PLAN AND PROFILE LINE FM-1
28	PP1-19	FORCE MAIN PLAN AND PROFILE LINE FM-1
29	PP1-20	FORCE MAIN PLAN AND PROFILE LINE FM-1
30	PP2-1	FORCE MAIN PLAN AND PROFILE LINE FM-2 ALTERNATE
31	PP2-2	FORCE MAIN PLAN AND PROFILE LINE FM-2 ALTERNATE
32	PP2-3	FORCE MAIN PLAN AND PROFILE LINE FM-2 ALTERNATE
33	PP2-4	FORCE MAIN PLAN AND PROFILE LINE FM-2 ALTERNATE
34	PP2-5	FORCE MAIN PLAN AND PROFILE LINE FM-2 ALTERNATE
35	PP2-6	FORCE MAIN PLAN AND PROFILE LINE FM-2 ALTERNATE
36	PP2-7	FORCE MAIN PLAN AND PROFILE LINE FM-2 ALTERNATE
37	PP2-8	FORCE MAIN PLAN AND PROFILE LINE FM-2 ALTERNATE
38	PP2-9	FORCE MAIN PLAN AND PROFILE LINE FM-2 ALTERNATE
39	PP2-10	FORCE MAIN PLAN AND PROFILE LINE FM-2 ALTERNATE
40	PP2-11	FORCE MAIN PLAN AND PROFILE LINE FM-2 ALTERNATE
41	MD1	MISCELLANEOUS DETAILS I
42	MD2	MISCELLANEOUS DETAILS II
43	MD3	MISCELLANEOUS DETAILS III
44	MD4	MISCELLANEOUS DETAILS IV
45	MD5	MISCELLANEOUS DETAILS V

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Issue Date:	Project No:	Scale:
8/21/2026	S25105	AS SHOWN

GENERAL LOCATION MAP AND DRAWING SET INDEX

Drawing No:

G-02

Sheet: 02 OF 45

GENERAL ABBREVIATIONS

AB	AIR	GALV	GALVANIZED	SHT	SHEET
AB	ANCHOR BOLT	GEN	GENERAL	SL	SAMPLE LINE
AFF	ABOVE FINISH FLOOR	GRD	GROUND OR GRADE	SOS	STORM SEWER
ALT	ALTERNATE			SP	STOP PLATE
ALUM	ALUMINUM	HB	HOSE BIBB	SQ	SQUARE
@	AT	HORIZ	HORIZONTAL	STD	STANDARD
APP.	APPARENT	HP	HORSEPOWER	S STL, SS	STAINLESS STEEL
ATT	AERATION TANK TRANSFER	HW	HOT WATER	STL	STEEL
AUTO	AUTOMATIC			SUP	SUPERNATANT
AVG	AVERAGE	ID	INSIDE DIAMETER	SY	SQUARE YARD
		IJ	ISOLATION JOINT		
B	BAFFLE	INV	INVERT	TOS	TOP OF SLAB
BLDG	BUILDING	IP	IRON PIN	TOW	TOP OF WALL
BM	BENCH MARK			TW	TERTIARY WATER
BOT	BOTTOM	LAV	LAVATORY	TYP	TYPICAL
BRG	BEARING	LB	POUND		
		LL	LIVE LOAD	V	VACUUM OR VALVE
CFM	CUBIC FEET PER MINUTE	LLV	LONG LEG VERTICAL	VAR	VARIES
CL	CENTERLINE	LTG	LIGHTING	VERT	VERTICAL
CO	CLEAN OUT				
COL/C	COLUMN	MAX	MAXIMUM	W	WEIR
CONC	CONCRETE	MCC	MOTIM CONTROL CENTER	W/	WITH
COP	COPPER	MGD	MILLIONS GALLONS PER DAY	W/O	WITHOUT
CJ	CONSTRUCTION JOINT	MH	MANHOLE	WAS	WASTE ACTIVATED SL
CW	COLD WATER	MIN	MINIMUM, MINUTE	WC	WATER CLOSET
CY	CUBIC YARD	MJ	MECHANICAL JOINT	WH	WATER HEATER
				WL	WATER LINE
D	DRAIN	NC	NORMALLY CLOSED	WWF	WELDED WIRE FABRIC
DEC	DECANT	NG	NATURAL GAS		
DIA	DIAMETER	NIC	NOT IN CONTRACT		
DIM	DIMENSION	NO	NORMALLY OPEN	YH	YARD HYDRANT
DI	DUCTILE IRON PIPE	NO.	NUMBER		
DL	DEAD LOAD	NPW	NON-POTABLE WATER		
DSPT	DOWN SPOUT				
DWG	DRAWING	OC	ON CENTER		
		OD	OUTSIDE DIAMETER		
E	ELECTRICAL CONDUIT	OPG	OPENING		
EA	EACH	OPP	OPPOSITE		
EF	EACH FACE				
EFFL	EFFLUENT	PB	PULL BOX		
EL	ELEVATION	PE	POLYETHYLENE EXP. JT. MATERIAL		
EW	EACH WAY	P/L	PROPERTY LINE		
EX	EXISTING	POJ	PUSH ON JOINT		
EXF	EXHAUST FAN	PSF	POUNDS PER SQUARE FOOT		
EXP JT	EXPANSION JOINT	PSI	POUNDS PER SQUARE INCH		
		PVC	POLYVINYL CHLORIDE		
F	FILTER	PW	POTABLE WATER		
FCAR	FLANGED COUPLING ADAPTER, RESTRAINED				
FD	FLOOR DRAIN	R	RECIRCULATION		
FDN	FOUNDATION	RAD	RADIUS		
FH	FIRE HYDRANT	RAS	RETURN ACTIVATED SLUDGE		
FLD	FILTRATE DRAIN	RCP	REINFORCED CONCRETE PIPE		
FLG	FLANGE	RD	ROOF DRAIN		
FL	FLUSHING LINE	REINF	REINFORCING		
FLR	FLOOR	REQ'D	REQUIRED		
FM	FORCE MAIN	R/W (ROW)	RIGHT-OF-WAY		
FRP	FIBER REINFORCED PLASTIC	SAN	SANITARY		
FT	FEET OR FOOT	SAS	SANITARY SEWER		
FTG	FOOTING	SCH	SCHEDULE		
FW	FINISHED WATER	SECT	SECTION		
		SF	SQUARE FEET		
G	GAS				

GENERAL NOTES

1. ALL PROPERTY AND RIGHT-OF-WAY LINE INFORMATION SHOWN IN DRAWING SET ARE APPARENT AND SHALL NOT BE DEEMED EXACT LOCATIONS, UNLESS OTHERWISE NOTED. INFORMATION WAS OBTAINED VIA "KENTUCKY ON-LINE" GIS SHAPE FILES.
2. EXISTING UTILITY INFORMATION SHOWN IN DRAWING SET, MEETS "ASCE 36-02" QUALITY LEVEL "C", UNLESS OTHERWISE NOTED.

UTILITY COORDINATION AND PROJECT DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.

UTILITY QUALITY LEVEL DESCRIPTIONS:

UTILITY QUALITY LEVEL A - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATIONS OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. ACCURACY OF LOCATION MATCHES PROJECT SURVEY TOLERANCE.

UTILITY QUALITY LEVEL B - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION SUBSURFACE UTILITIES. THE RELIABILITY OF THIS INFORMATION IS SURVEYED TO PROJECT CONTROL AND SUBJECT TO ACCURACY LEVELS OF THE GEOPHYSICAL TOLERANCE DEFINED BY THE PROJECT.

UTILITY QUALITY LEVEL C - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE GROUND UTILITY FEATURES AND CORRELATING QUALITY LEVEL "D" INFORMATION.

UTILITY QUALITY LEVEL D - INFORMATION DERIVED FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS.

3. NORTHING AND EASTING COORDINATES SHOWN ON ALL MANHOLE, INLETS, ETC. ARE SHOWN FROM CENTER OF STRUCTURE NOT CASTING, UNLESS OTHERWISE NOTED.
4. ALL MANHOLES THAT HAVE PIPE INVERT DIFFERENTIAL OF 2' OR GREATER, SHALL BE CONSIDERED A DROP MANHOLE. CONTRACTOR SHALL REFER TO MISCELLANEOUS DETAILS AND DETAILED SPECIFICATIONS FOR MORE INFORMATION.
5. CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
6. CITY ENGINEERS OFFICE SHALL DETERMINE ALL REPAIR LIMITS PRIOR TO REPAIRS OF STREET, CURB, AND/OR SIDEWALK.

GENERAL SCHEMATIC LEGEND

	QUICK DISCONNECT		BOOSTER PUMP
	FLANGED SPOOL SECTION		AIR RELIEF VALVE
	PRESSURE REDUCER VALVE		FLOW METER
	FLANGED COUPLING ADAPTER		GATE VALVE
	BALL CHECK VALVE		FLOW CONTROL VALVE
	MOTOR ACTUATOR		VALVE
	FLEXIBLE CONNECTION		ECCENTRIC PLUG VALVE
	FLANGE FILLER & S.S. MESH SCREEN		CHECK VALVE
	90° V-NOTCH WEIR		INCREASER / REDUCER
	MAGNETIC FLOW METER		BUTTERFLY VALVE
	ULTRASONIC SENSOR		PIPE THROUGH FLOOR / WALL
	SUBMERSIBLE PUMP		BALL VALVE
	NEW PIPING AND EQUIPMENT		BLIND FLANGE OR PLUG
	EXISTING PIPING AND EQUIPMENT		HOSE BIBB
	FUTURE PIPING AND EQUIPMENT		STOP PLATE
			WEIR

HATCHING SYMBOLS

Legend for Figure 1: Typical Section of Wall and Foundation:

- CMU WALL (PLAN VIEW)
- GRANULAR BACKFILL (PROFILE VIEW)
- DEMOLITION (CONTRACTOR SHALL REFER TO DETAILED SPECIFICATIONS)
- GROUT
- CONCRETE
- STEEL
- COMPACTED GRANULAR BACKFILL OR COMPACTED FOUNDATION
- ABANDONED IN PLACE

DRAWING SET LEGEND

	EXOHT		EXOHT		AC UNIT		TELEPHONE MANHOLE
	EXG		EXG		BOLLARD		TELEPHONE LINE MARKER
	EXW		EXW		BOULDER / LARGE ROCK		TRAFFIC MANHOLE
	EXFIO		EXFIO		CENTER LINE MONUMENT		WATER LINE MARKER
	EXOHE		EXOHE		ROW MONUMENT		WATER METER
	EXBE		EXBE		CONTROL POINT / BENCH MARK		VALVE
	NPW		NPW		DRILL HOLE		IRRIGATION CONTROL VALVE
	POT		POT		MAIL BOX		FIRE HYDRANT
	EXBT		EXBT		FLAG POLE		FLUSH HYDRANT
	X		X		POST		YARD HYDRANT
	RW		RW		STUMP		WALL SPIGOT
	PL		PL		BUSH / HEDGE		EXISTING PIPE PLUG
	APP, RW		APP, RW		DECIDUOUS TREE		STORM CATCH BASIN (SQUARE)
	APP, PL		APP, PL		CONIFEROUS TREE		STORM CATCH BASIN (ROUND)
	EDGE OF ROAD		EDGE OF ROAD		SIGN		STORM CURB INLET
	EDGE OF ROAD WITH CURB		EDGE OF ROAD WITH CURB		UTILITY LOCATE FLAG		STORM MANHOLE
	EXISTING MAJOR CONTOUR LINE		EXISTING MAJOR CONTOUR LINE		GAS LINE MARKER		SANITARY MANHOLE
	EXISTING MINOR CONTOUR LINE		EXISTING MINOR CONTOUR LINE		GAS VALVE		SANITARY VALVE
	NEW FORCE MAIN		NEW FORCE MAIN		GAS METER		CLEANOUT
	PROPOSED MAJOR CONTOUR LINE		PROPOSED MAJOR CONTOUR LINE		GUY POLE		VENT
	PROPOSED MINOR CONTOUR LINE		PROPOSED MINOR CONTOUR LINE		POWER POLE		NEW VALVE
					LIGHT POLE		NEW FIRE HYDRANT
					GUY WIRE		NEW FLUSH HYDRANT
					ELECTRIC METER		NEW WET SADDLE AND VALVE BODY
					ELECTRIC PANEL		NEW PLUG
					ELECTRIC TRANSFORMER		NEW LINE STOP
					HAND HOLE BOX		NEW CUT AND CAP
					FIBER OPTIC MARKER		NEW SANITARY MH
					TEL/TV PEDESTAL		NEW WATER METER PIT

DISCLAIMER NOTE:
THIS DRAWING REFLECTS TYPICAL INFORMATION,
SOME MAY NOT BE APPLICABLE TO THIS PROJECT.



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GENERAL ABBREVIATIONS, LEGENDS, SYMBOLS AND NOTES

Drawing No:

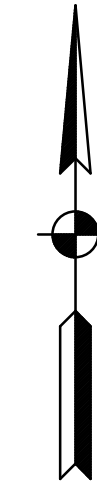
G-03

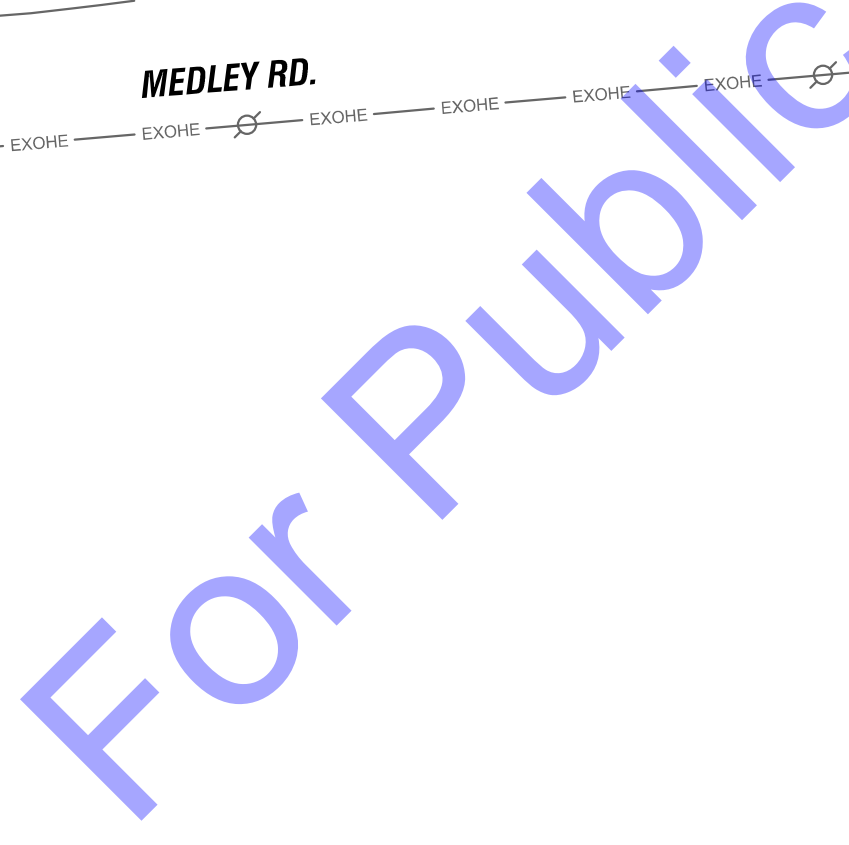
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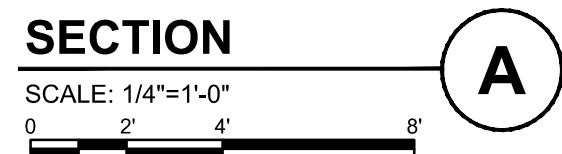
DRAWING INDEX MAP
LINE "FM-2" (ALTERNATE ROUTE)

SCALE: 1"=400'-0"





SCALE: 1"=60'-0"



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

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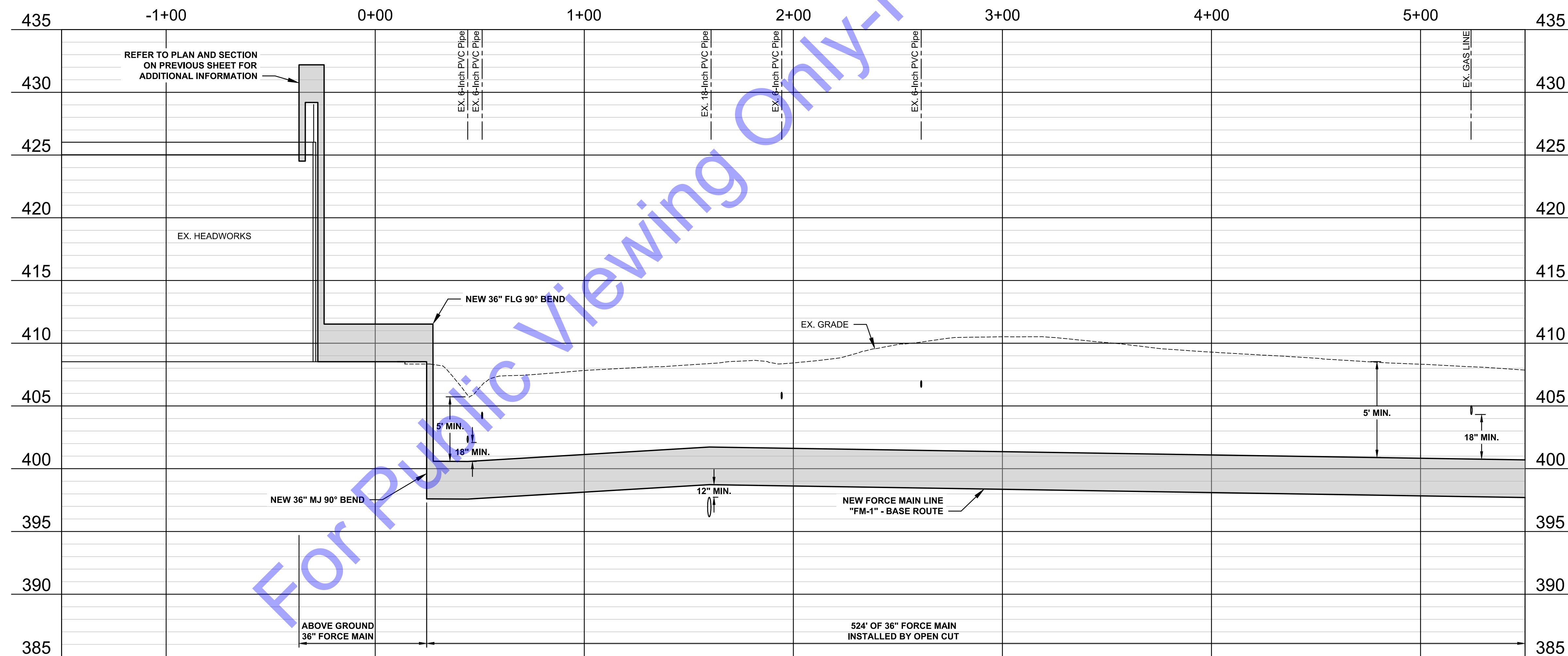
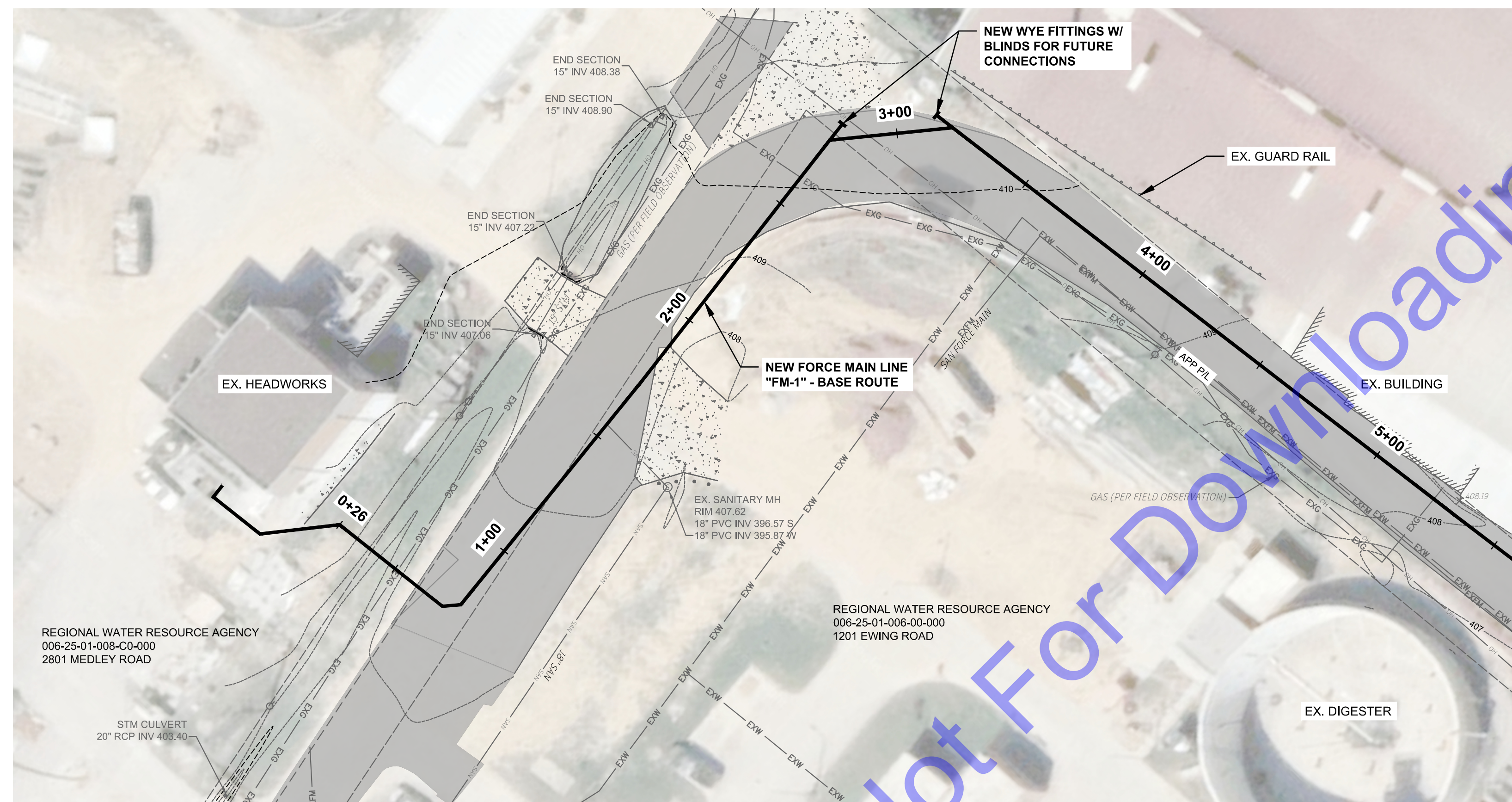
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**EX. HEADWORKS
SANITARY PIPING
IMPROVEMENTS PLAN
AND SECTION**

Drawing No:

C-2

Sheet: 09 OF 46



NOTES:

1. FOR ADDITIONAL INFORMATION ON THE EXISTING WWTP, REFERENCE SHEET C-1

FOR CONTINUATION SEE DWG PP1-2



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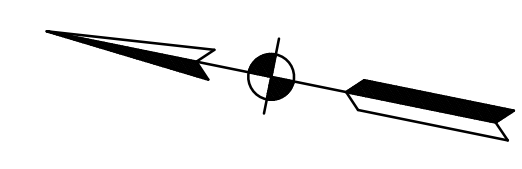
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FORCE MAIN PLAN AND
PROFILE LINE FM-1

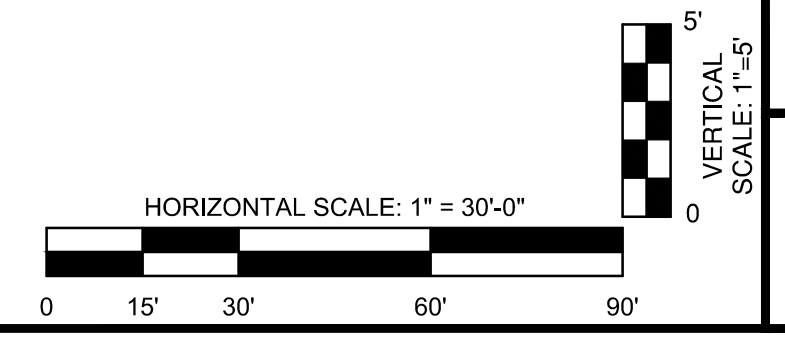
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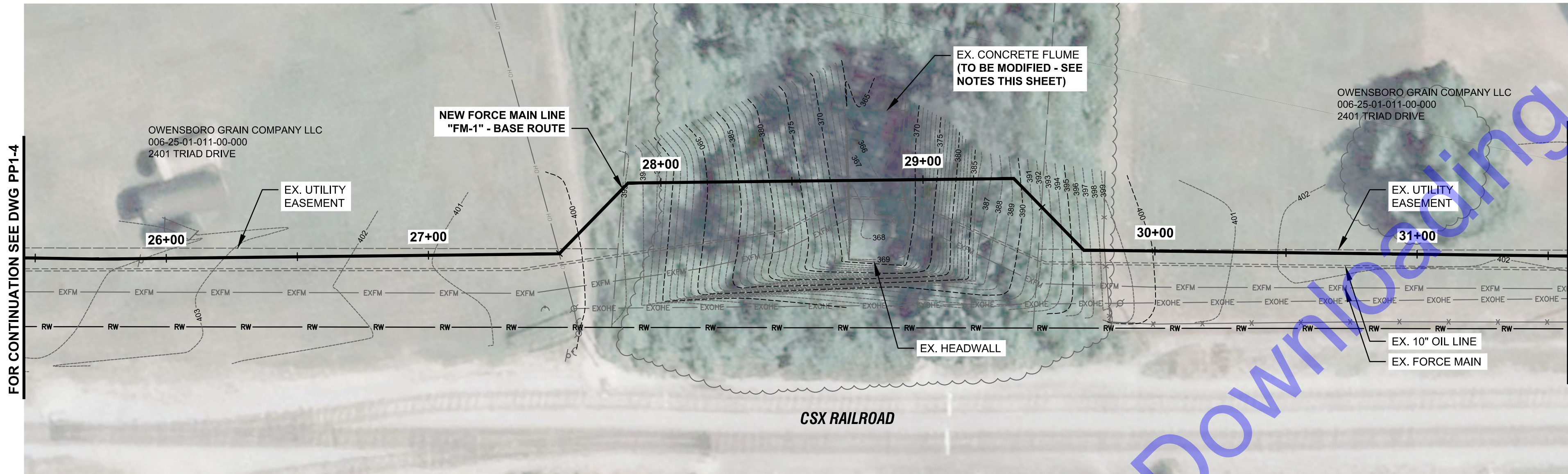


FOR CONTINUATION SEE DWG PP1-5

PROFILE



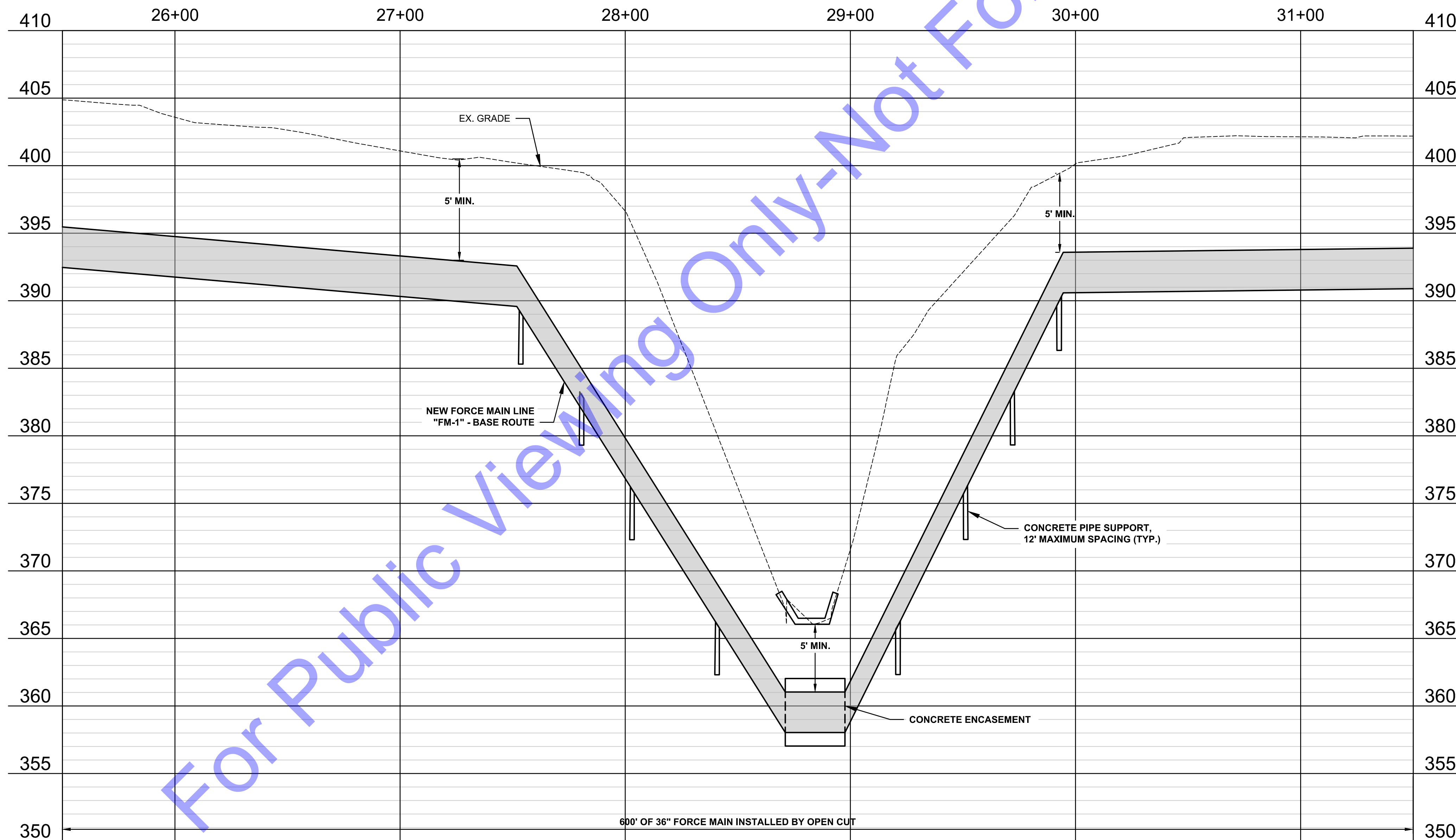
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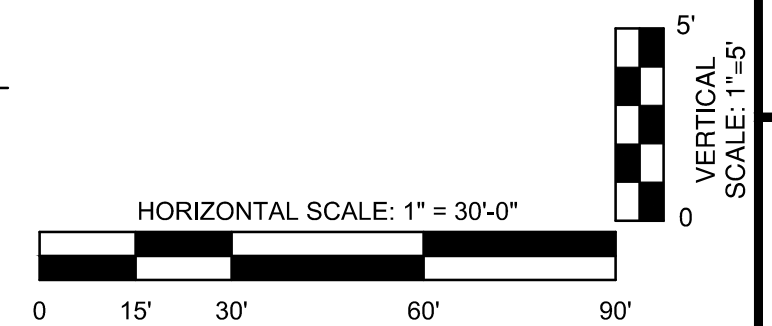
PLAN

NOTES:

1. PLANS CURRENTLY INDICATE OPEN-CUT INSTALLATION OF DITCH CROSSING. INSTALLATION METHOD TO BE EVALUATED AND FINALIZED DURING PRE-CONSTRUCTION PHASE WITH CMAR.
2. FLUME TO BE EXTENDED IN KIND 10 FEET PAST NEW FORCE MAIN.



PROFILE



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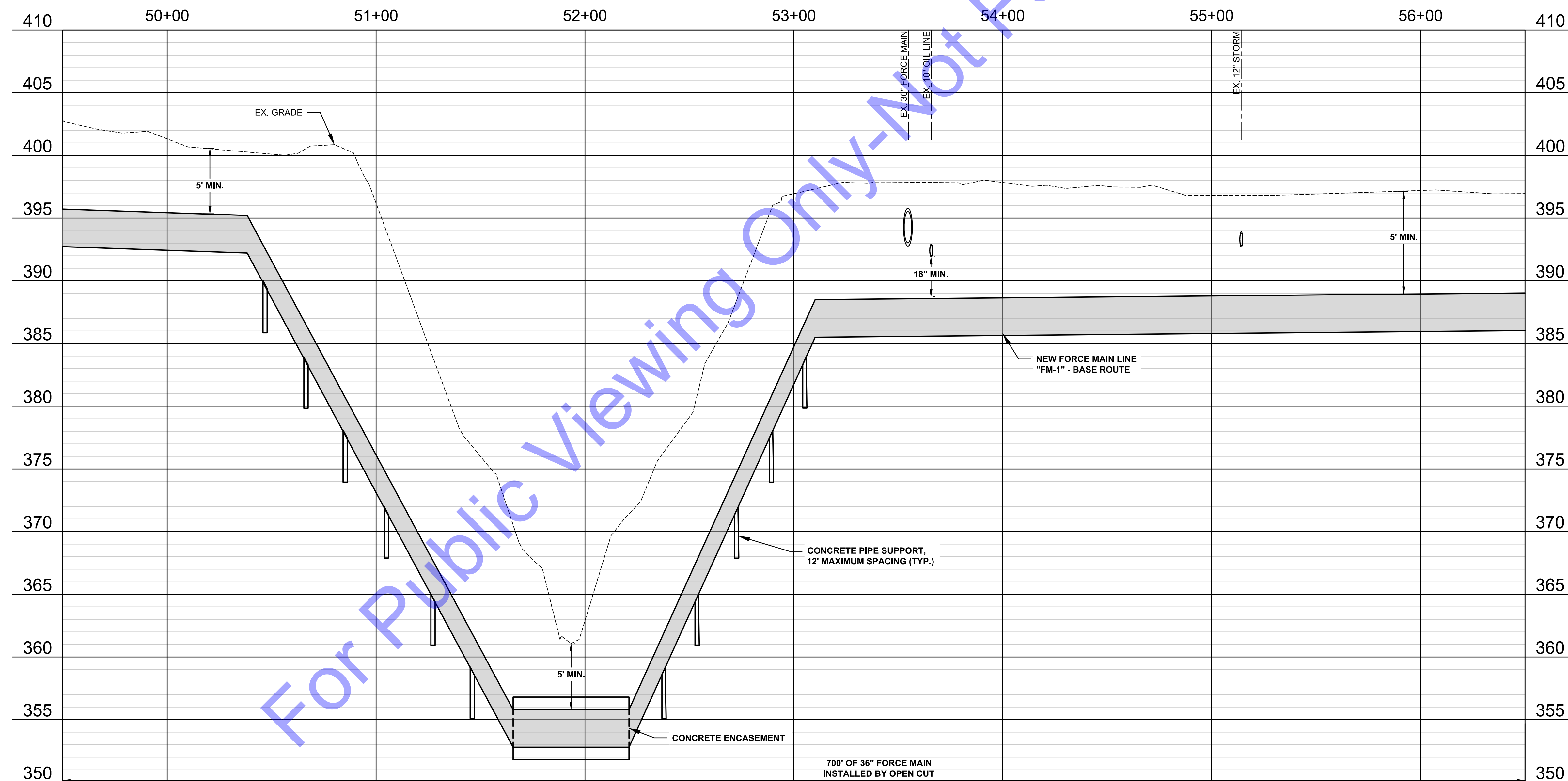
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FORCE MAIN PLAN AND PROFILE LINE FM-1

Drawing No:
PP1-5

Sheet: 14 OF 45



NOTES:

1. PLANS CURRENTLY INDICATE OPEN-CUT INSTALLATION OF DITCH CROSSING. INSTALLATION METHOD TO BE EVALUATED AND FINALIZED DURING PRE-CONSTRUCTION PHASE WITH CMAR.

FOR CONTINUATION SEE DWG PP1-10

FOR CONTINUATION SEE DWG PP1-8

SPECIALTY FOODS GROUP LLC
046-00-00-001-00-000
4 DUBLIN LANE

PILOT PROPERTIES LLC
006-25-01-011-A0-000
2351 TRIAD DRIVE

**NEW FORCE MAIN LINE
"FM-1" - BASE ROUTE**

— EX. 12" STORM LINE

X. 10" OIL LINE

EX. FENCE GATE

- EX. FENCE GATE

EX. FORCE MAIN

(Gravel)

EX. FENCE

EX. SANITARY AARV MH
RIM 397.88
BOTTOM FLANGE GV 392.96

EX. OIL AARV MH
RIM 397.85
(INACCESSIBLE)



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FORCE MAIN PLAN AND

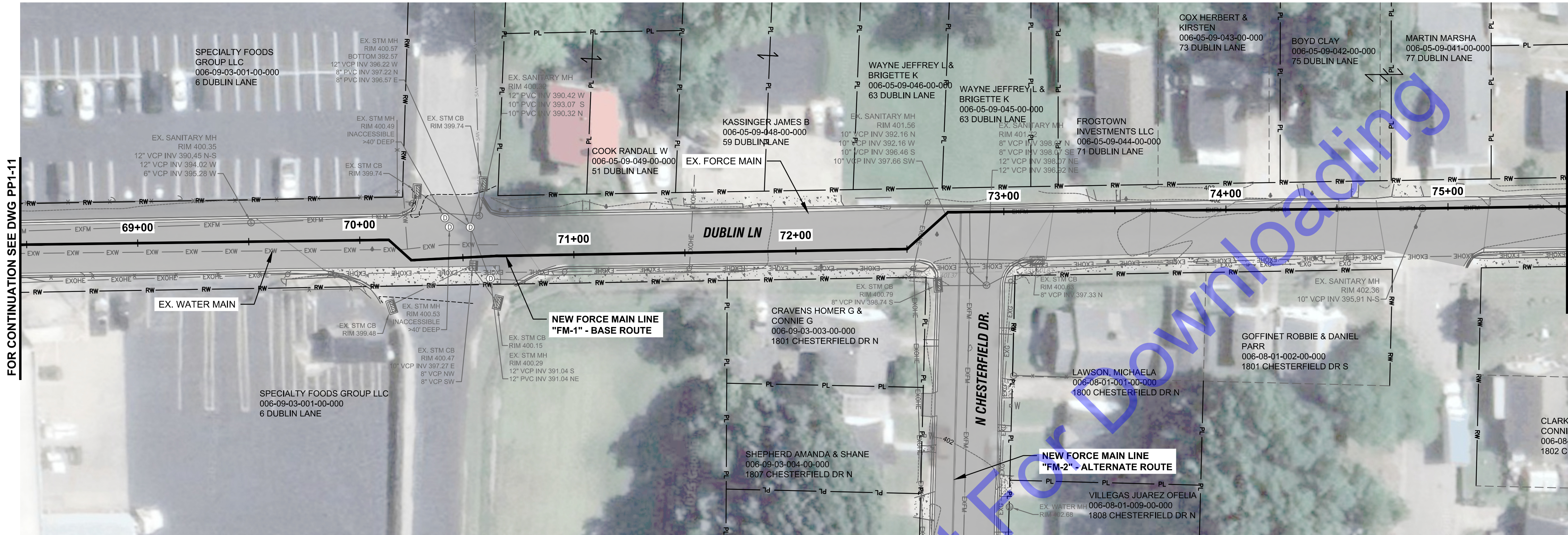
FORCE MAIN PLAN AND
PROFILE LINE FM 1

PROFILE LINE FM-1

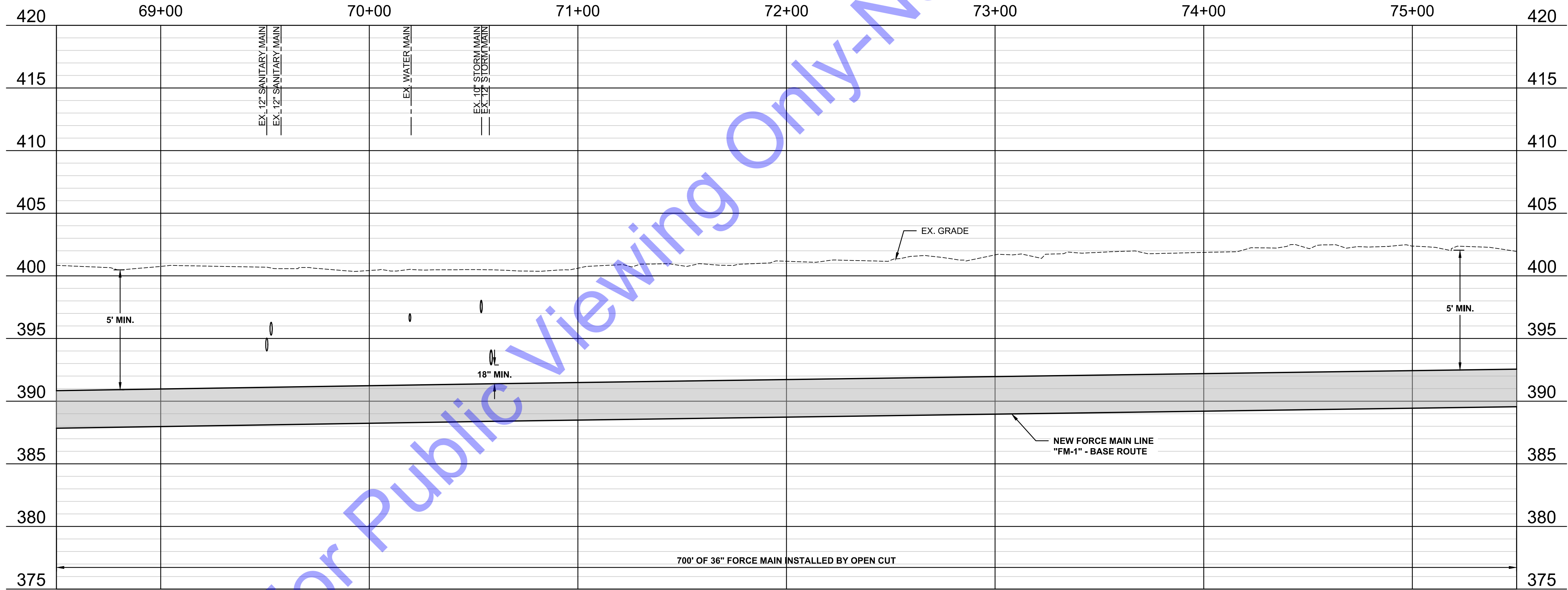
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PP1-9

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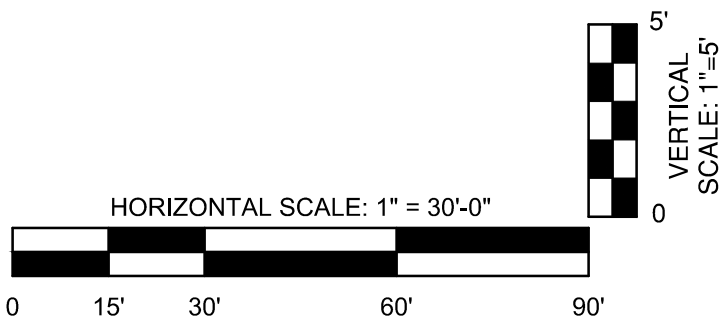


PLAN



PROFILE

- NOTES:
- PLANS CURRENTLY INDICATE INSTALLATION OF NEW FORCE MAIN ALONG THE SAME ALIGNMENT AS THE EXISTING FORCE MAIN ALIGNMENT. FINAL ALIGNMENT TO BE EVALUATED AND DETERMINED DURING PRE-CONSTRUCTION PHASE WITH CMAR.



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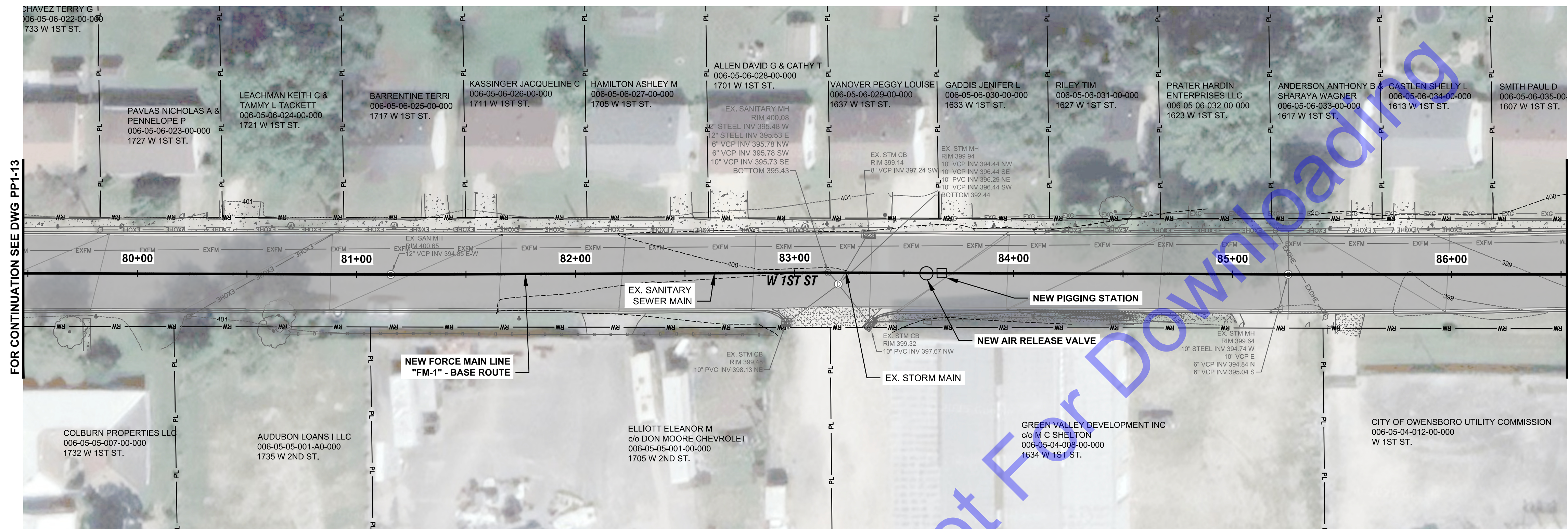
Designed By:	Drawn By:	Checked By:
TSH	JAJ	XXX

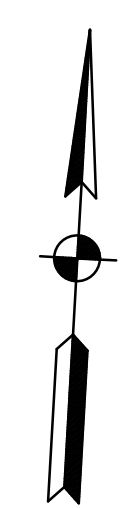
Issue Date:	Project No:	Scale:
8/21/2026	S25105	AS SHOWN

FORCE MAIN PLAN AND PROFILE LINE FM-1

Drawing No:
PP1-12

Sheet: 21 OF 45





KEYNOTES:

1. CONTRACTOR SHALL REPLACE 1ST STREET INTERSECTIONS IN-KIND WITH BRICK PAVERS PER THE DETAIL ON SHEET MD-5



1. PLANS CURRENTLY INDICATE INSTALLATION OF NEW FORCE MAIN ALONG THE SAME ALIGNMENT AS THE EXISTING FORCE MAIN ALIGNMENT. FINAL ALIGNMENT TO BE EVALUATED AND DETERMINED DURING PRE-CONSTRUCTION PHASE WITH CMAR.

**FOR CMAR
SOLICITATION**

Signature _____ Date _____

**REGIONAL WATER
RESOURCE AGENCY**

**LOCUST STREET
FORCE MAIN REPLACEMENT**

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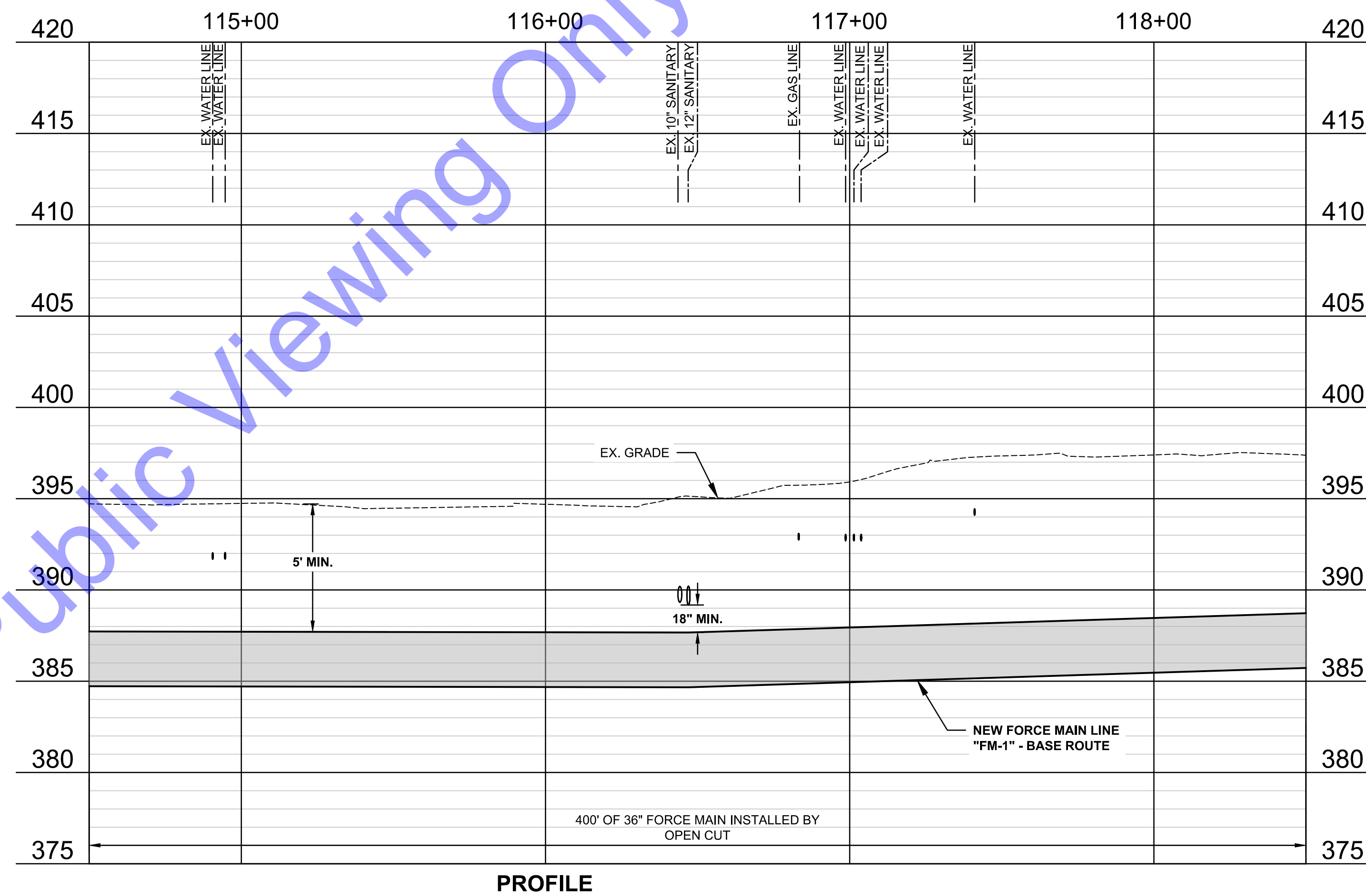
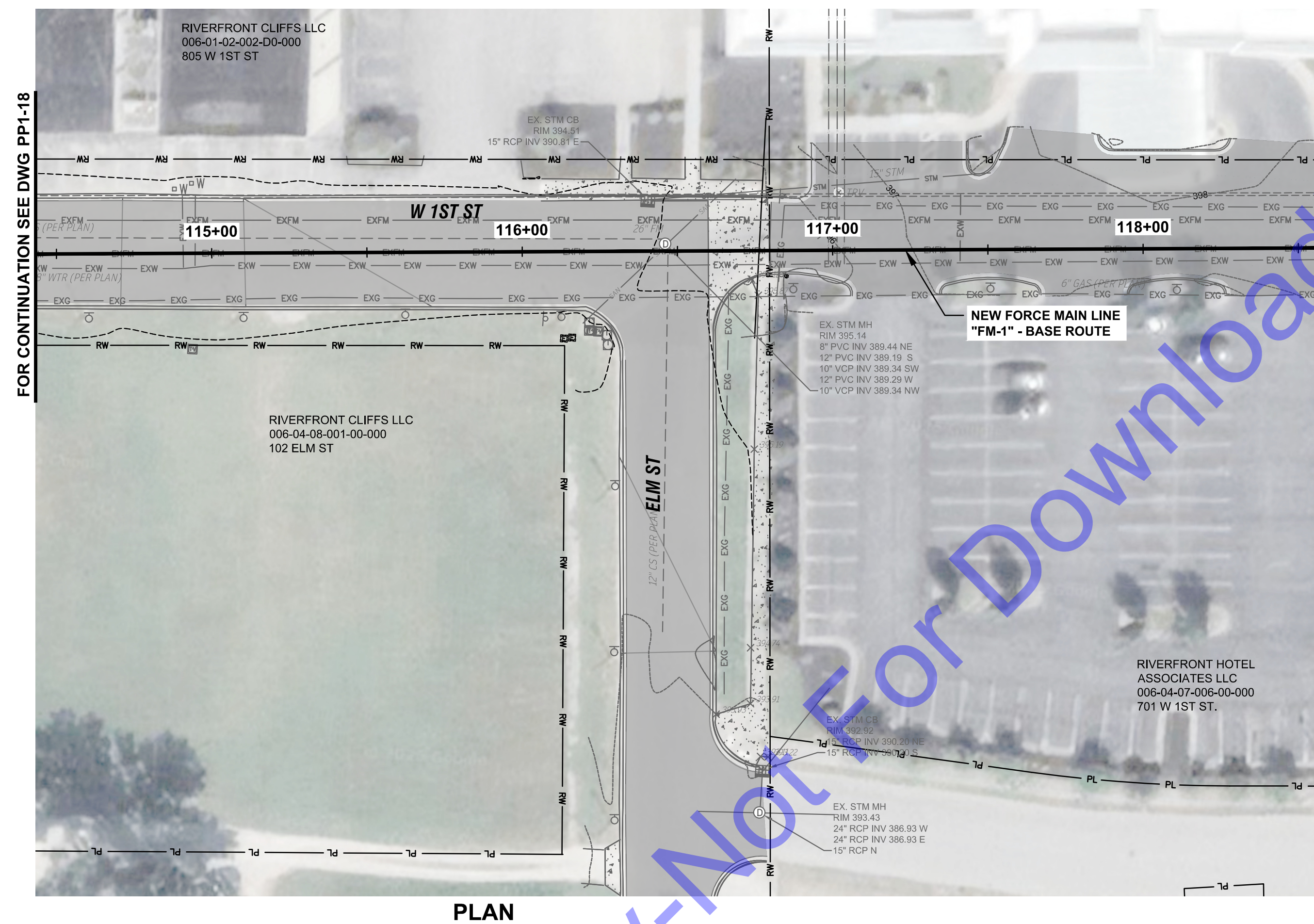
Issue Date: 8/21/2026	Project No: S25105	Scale: AS SHOWN
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FORCE MAIN PLAN AND
PROFILE LINE FM-1

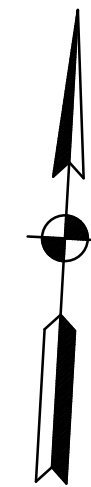
Drawing No:

PP1-17

Sheet: 26 OF 45



1. PLANS CURRENTLY INDICATE INSTALLATION OF NEW FORCE MAIN ALONG THE SAME ALIGNMENT AS THE EXISTING FORCE MAIN ALIGNMENT. FINAL ALIGNMENT TO BE EVALUATED AND DETERMINED DURING PRE-CONSTRUCTION PHASE WITH CMAR.



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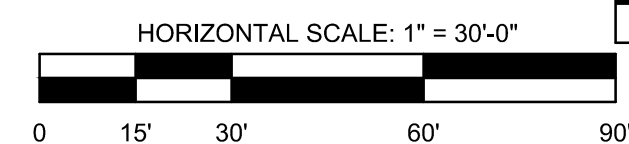
Designed By: TSH	Drawn By: JAJ	Checked By: XXX
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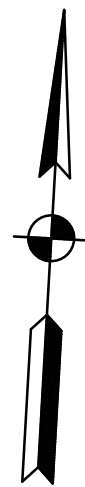
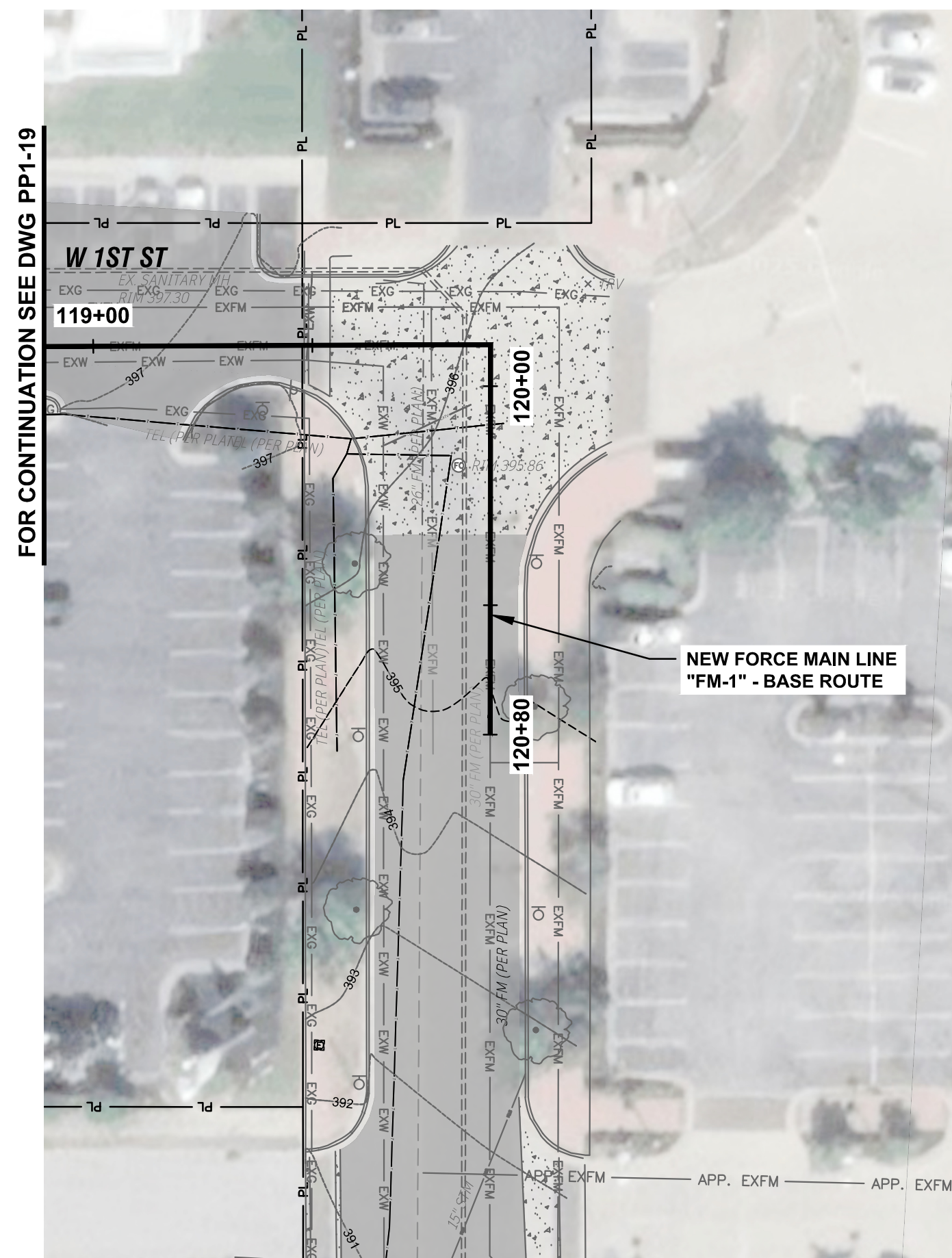
Issue Date:	Project No:	Scale:
8/21/2026	S25105	AS SHOWN

FORCE MAIN PLAN AND
PROFILE LINE FM-1

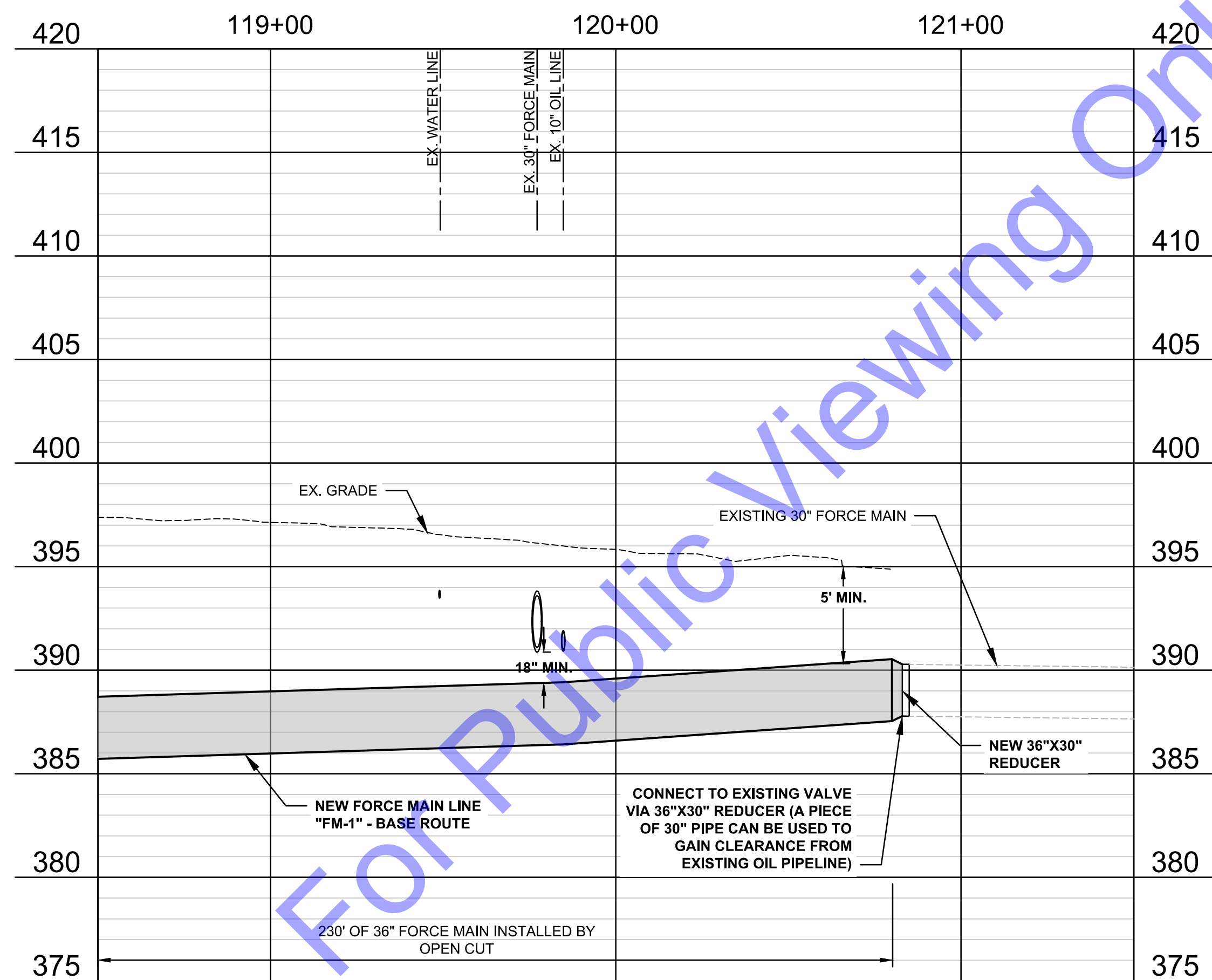
PP1-19

Sheet: 28 OF 45





- NOTES:**
1. PLANS CURRENTLY INDICATE INSTALLATION OF NEW FORCE MAIN ALONG THE SAME ALIGNMENT AS THE EXISTING FORCE MAIN ALIGNMENT. FINAL ALIGNMENT TO BE EVALUATED AND DETERMINED DURING PRE-CONSTRUCTION PHASE WITH CMAR.



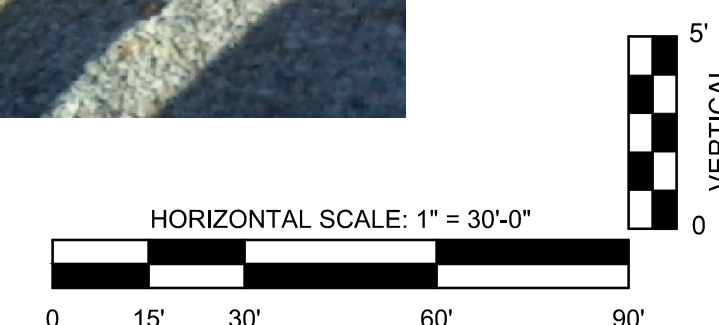
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Kentucky 811

Know what's below. Call before you dig.

1-800-382-5544
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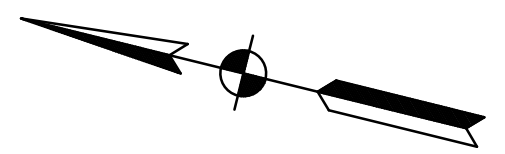
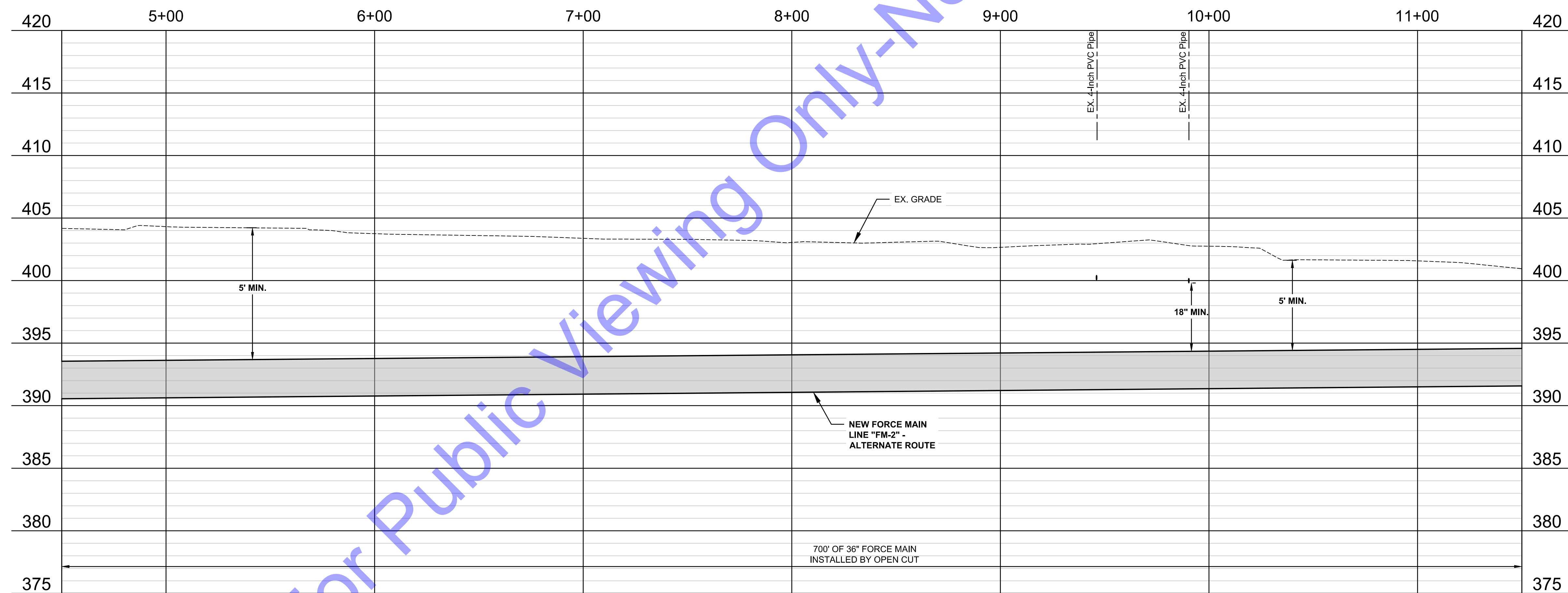
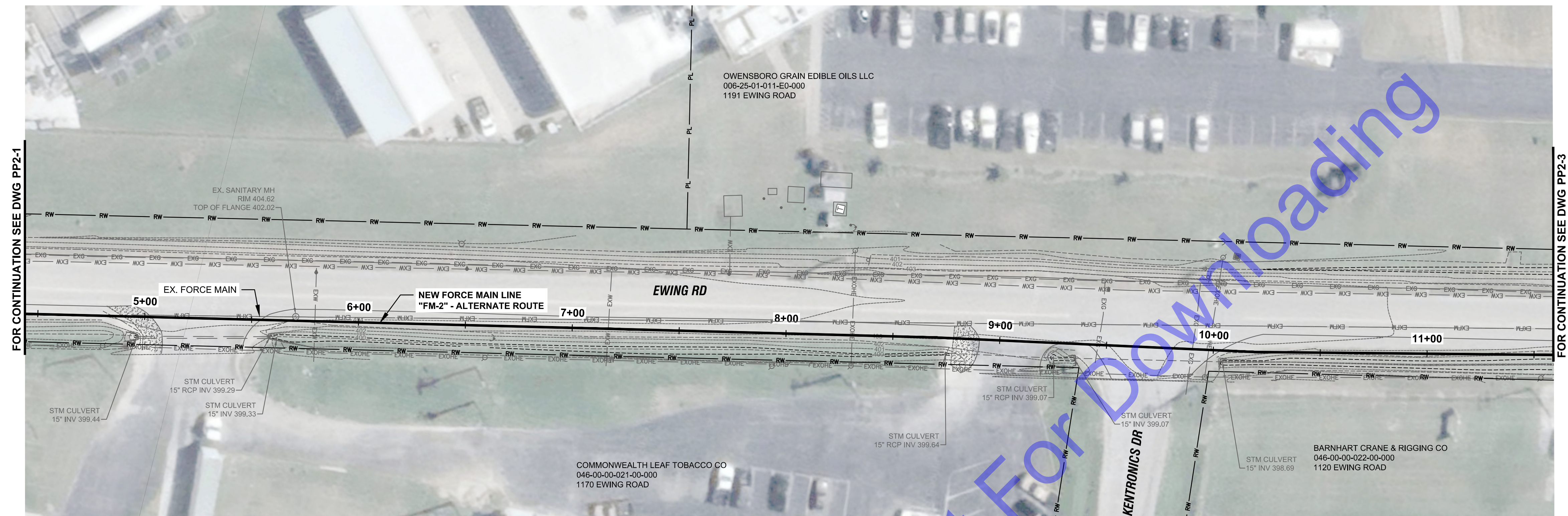
Issue Date: 8/21/2026	Project No: S25105	Scale: AS SHOWN
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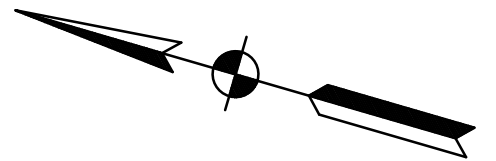
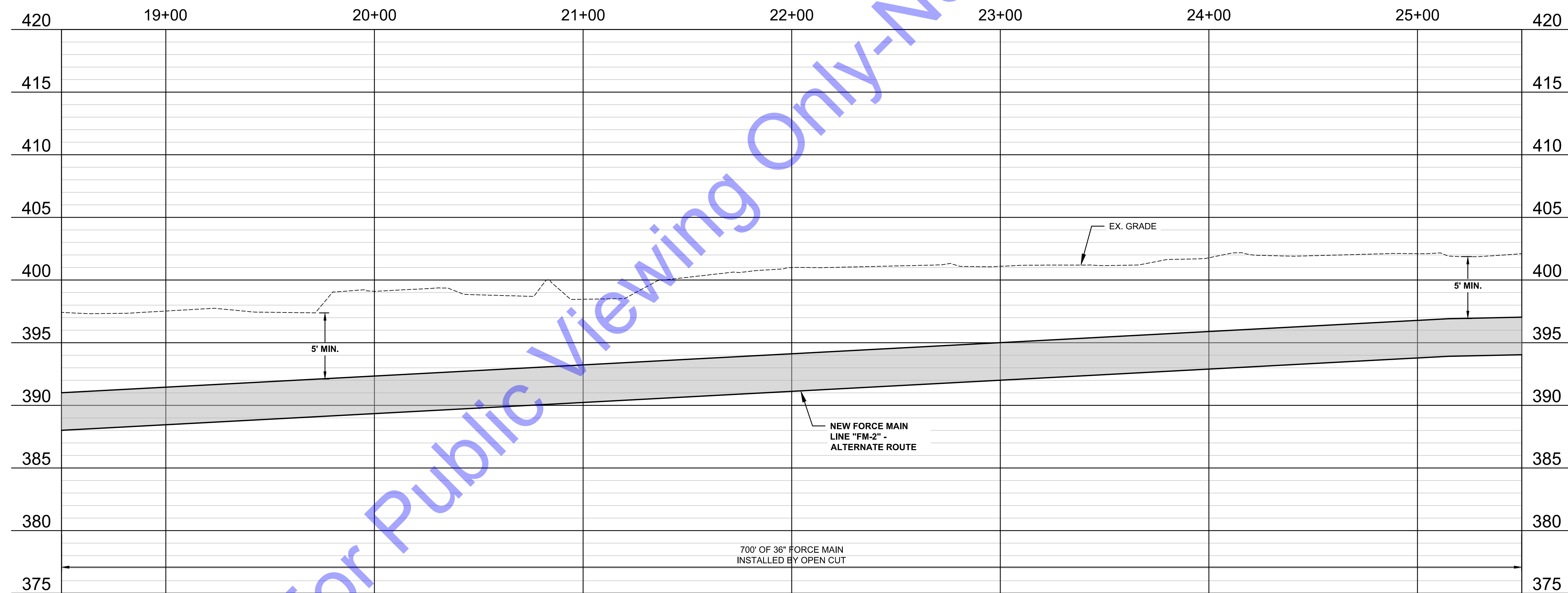
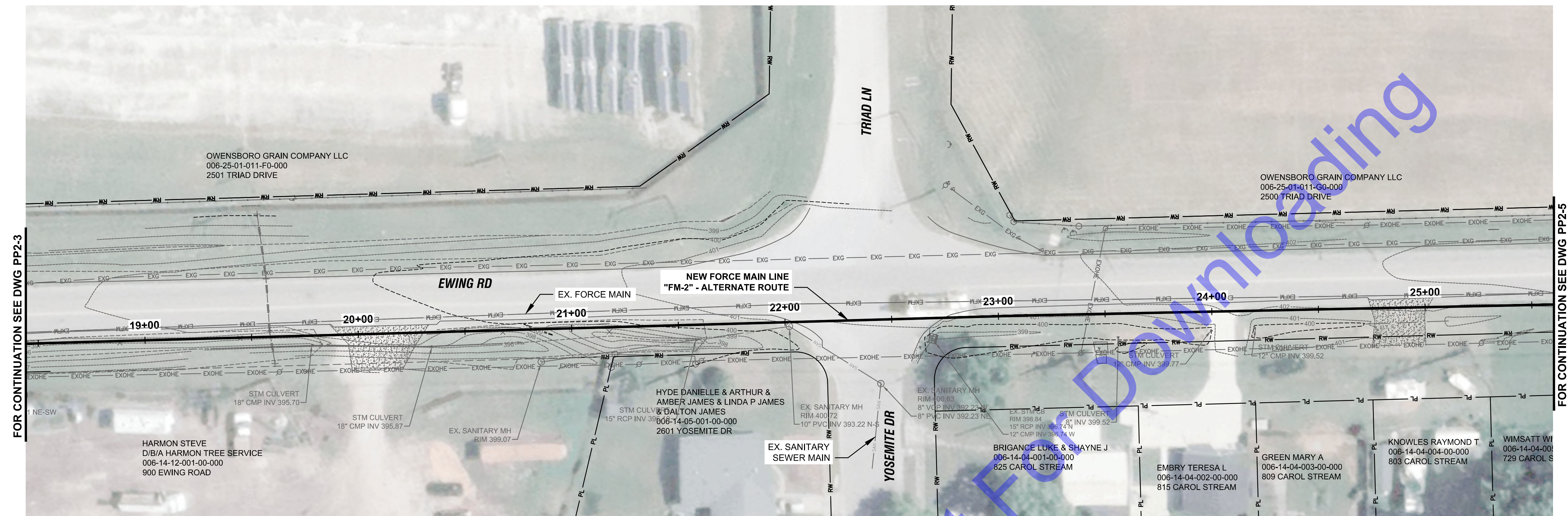
FORCE MAIN PLAN AND
PROFILE LINE FM-1

Drawing No:

PP1-20

Sheet: 29 OF 45





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FORCE MAIN PLAN AND PROFILE LINE FM-2 ALTERNATE

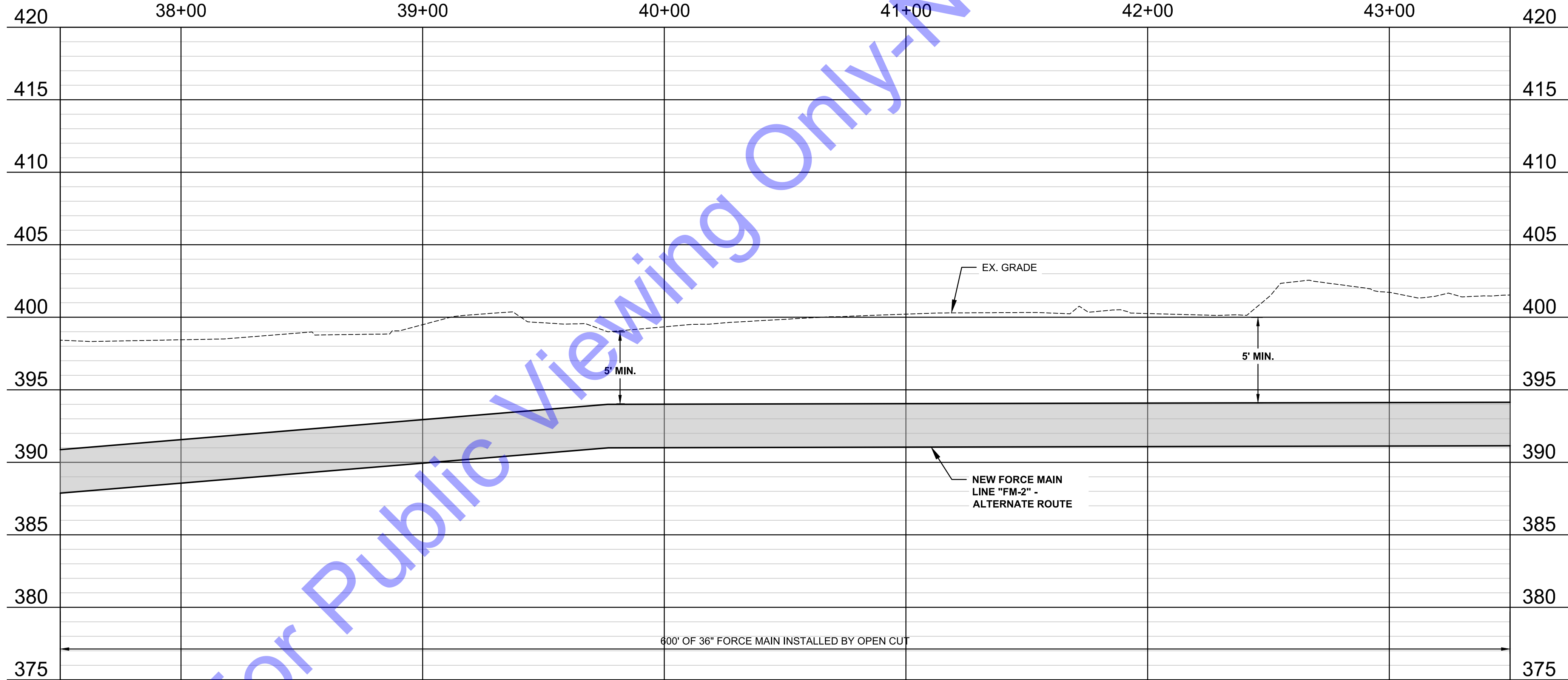
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PP2-4

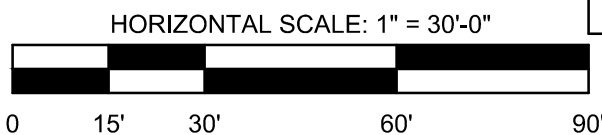
Sheet: 33 OF 45



PLAN



PROFILE



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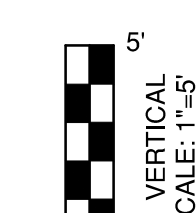
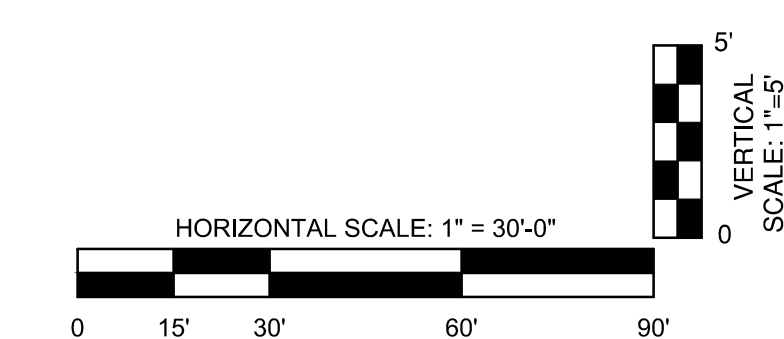
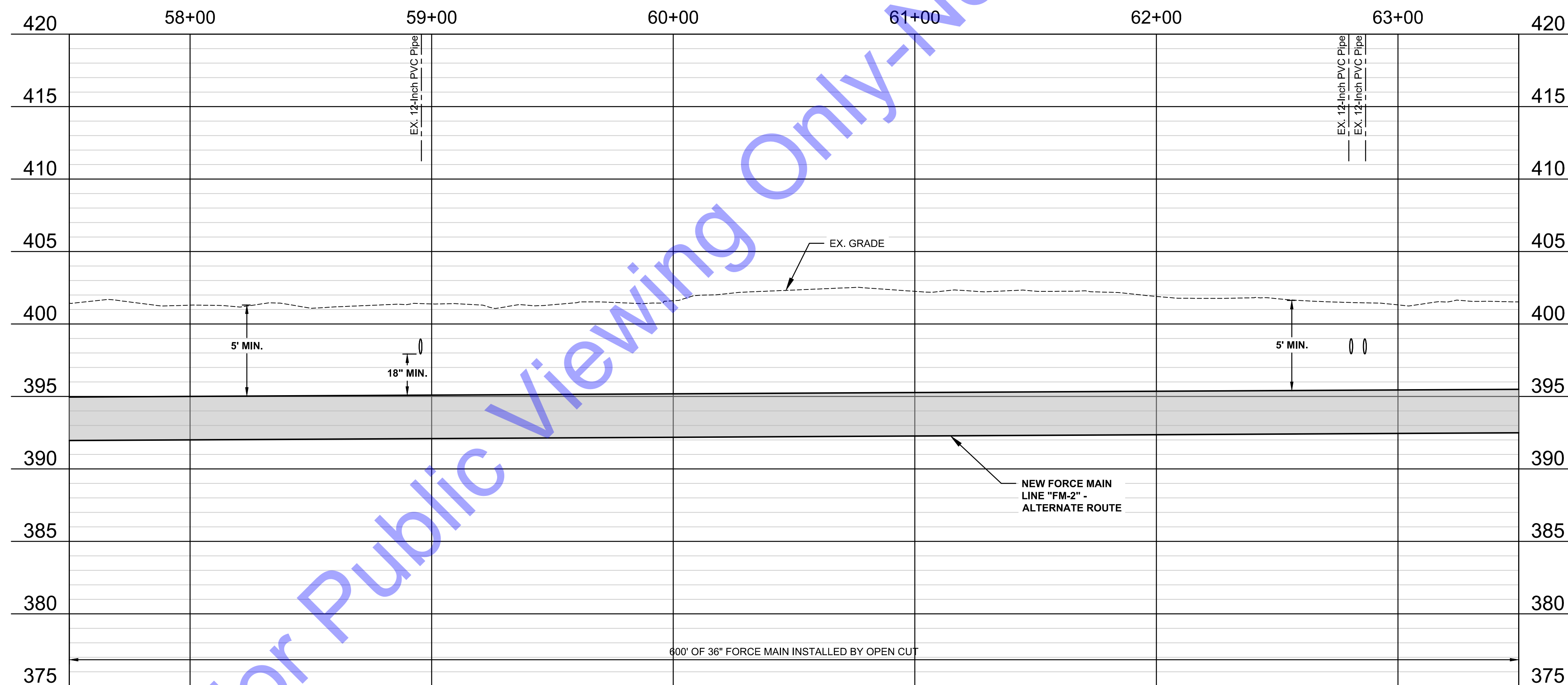
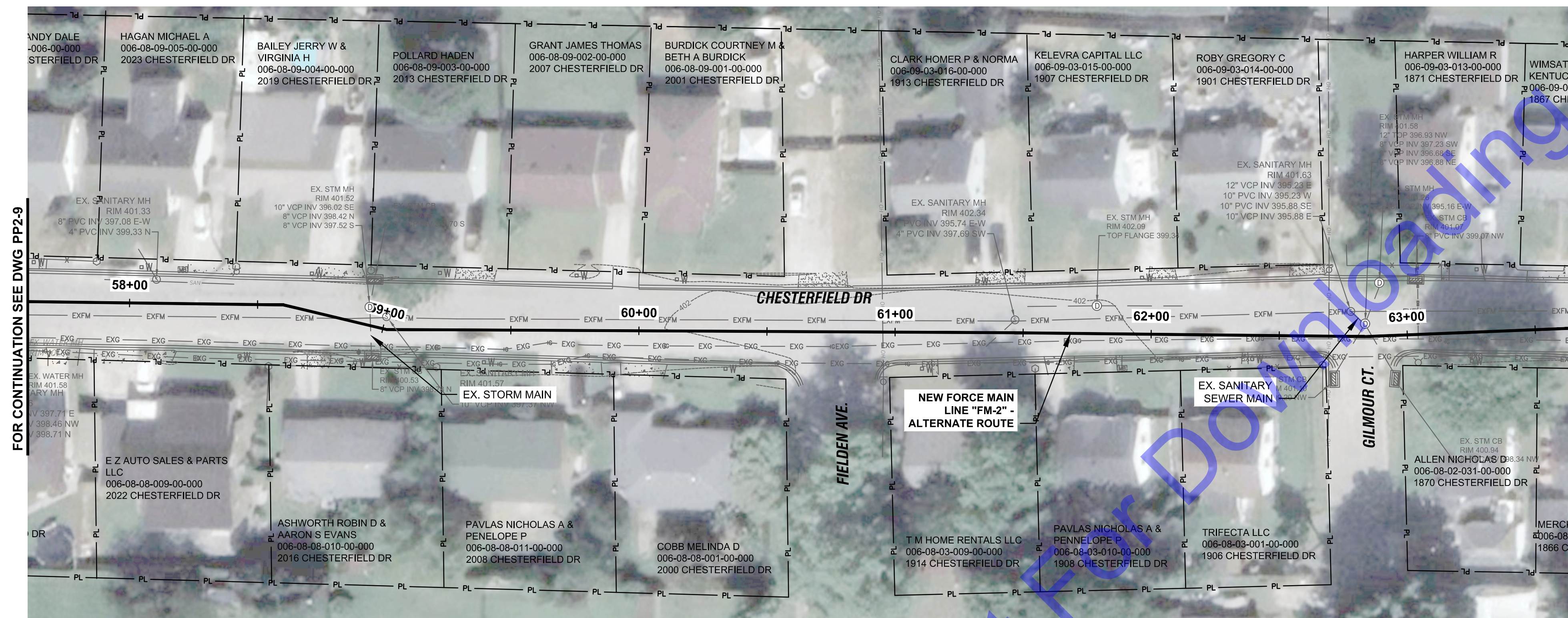
Issue Date:	Project No:	Scale:
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FORCE MAIN PLAN AND
PROFILE LINE FM-2
ALTERNATE

Drawing No.

PP2-7

Sheet: 36 OF 45





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MISCELLANEOUS
DETAILS I

Drawing No:

MD1

Sheet: 41 OF 45

