


# CITY OF GALENA, ILLINOIS

## ELM STREET WATER MAIN EXTENSION 2025

**PROFESSIONAL SEALS**



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS

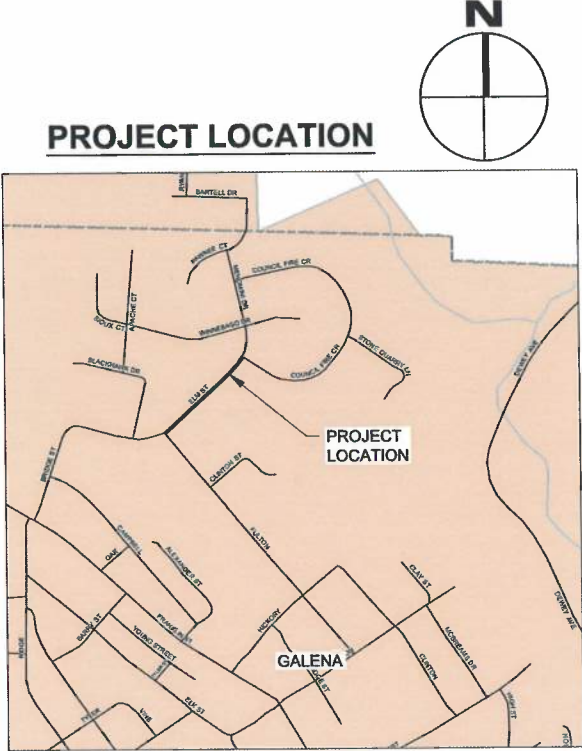
FOR ORIGIN DESIGN CO.  
PROFESSIONAL-DESIGN FIRM LICENSE #184007435-0015  
*Chris Becklin* 5/23/2025  
CHRISTOPHER A. BECKLIN DATE  
62-071513 11/30/2025  
REG. # RENEWAL DATE

PAGES OR SHEETS COVERED BY THIS CERTIFICATION:  
ALL SHEETS IN SHEET LIST TABLE

**CONTACT**

CHRIS BECKLIN  
ORIGIN DESIGN CO.  
137 MAIN ST, SUITE 100  
DUBUQUE, IA 52001  
V. (563)556-2464  
F. (563)556-7811  
E. chris.becklin@origindesign.com

**PROJECT LOCATION**



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Client Name  
CITY OF GALENA,  
ILLINOIS

Project Name  
ELM STREET  
WATER MAIN  
EXTENSION  
2025

Location / Description  
GALENA, IL



**UTILITY NOTE:**  
THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE UTILITIES PRESENT MAY NOT EXIST AS SHOWN. ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN MAY BE PRESENT. IT SHALL BE THE RESPONSIBILITY OF ANYONE USING THIS DOCUMENT TO ASCERTAIN THE EXACT LOCATION, SIZE, TYPE, MATERIAL, AND ELEVATION OF ALL UTILITIES THAT MAY BE PRESENT.

**UTILITY PROVIDERS:**

**WATER & SEWER:** CITY OF GALENA  
1-815-777-1050, MATT OLDENBURG

**GAS:** NICOR GAS  
1-630-388-2903, SAKIBUL FORAH

**ELECTRICAL POWER:** JO-CARROL ENERGY, INC.  
1-800-858-4223, BRAD EDLER

**TELEPHONE:** ATT DISTRUBUTION  
G11629@ATT.COM

**CABLE TELEVISION:** MEDIACOM  
815-597-5103, CHRIS MINARD  
STRATUS NETWORKS  
1-309-253-4374, TONY JORDAN

**ILLINOIS ONE CALL** 1-800-892-0123

Rev	Description	Date
1	Project Number 25089	5-21-25
2	Project Manager	
3	Issued For Bidding:	
4	Issued For Construction:	

Sheet Title

**COVER SHEET**

**G0.01**

# ABBREVIATIONS

Δ	CENTRAL ANGLE
A/C	AIR CONDITIONING(ER)
AC	ACRES
A.F.F.	ABOVE FINISHED FLOOR
AGG	AGGREGATE
AOH	ARROW ON HYDRANT
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AVG	AVERAGE
B-B	B/C - B/C
B/C, BOC	BACK OF CURB
B/DITCH	BOTTOM OF DITCH
BFP	BACKFLOW PREVENTOR
B/L	BASE LINE
B/S	BOTTOM OF SLOPE
BLDG	BUILDING
B.M.	BENCH MARK
BOP	BEGINNING OF PROJECT
BOT	BOTTOM
BSMT	BASEMENT
BV	BUTTERFLY VALVE
C&G	CURB AND GUTTER
CATV	CABLE TELEVISION
CB	CATCH BASIN
C-C	CENTER TO CENTER
CF	CUBIC FEET
CH	CHORD
CH BRG	CHORD BEARING
CIP	CAST IRON PIPE
C-I-P	CAST-IN-PLACE
CISP	CAST IRON SOIL PIPE
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPACTED
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COR	CORNER
CP	CONTROL POINT
CPE	CORRUGATED POLYETHYLENE PIPE
CRST	CRUSHED STONE
CSP	CORRUGATED STEEL PIPE
CTR	CENTERED
CTR	CENTER
CULT	CULTIVATED
CV	CHECK VALVE
CY	CUBIC YARD
D	DEGREE OF CURVE
DIA (Ø)	DIAMETER
DIP	DUCTILE IRON PIPE
DN	DOWN
DRWY	DRIVEWAY
DS	DOWNSPOUT
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)
E	EAST
E'LY	EASTERLY
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
ENGR	ENGINEER
ENR	ENTRANCE
EOP	END OF PROJECT
EOR	END OF RADIUS
E/P	EDGE OF PAVEMENT
EQ	EQUAL
E/S	EDGE OF SHOULDER
ESMT	EASEMENT
EST	ESTIMATE
EX	EXISTING
EXC	EXCAVATE/EXCAVATION
EXP	EXPANSION
EXT	EXTERIOR
EXTD	EXTEND
EW	EACH WAY

FD	FLOOR DRAIN
FDN	FOUNDATION
F.E.	FIELD ENTRANCE
FES	FLARED END SECTION
F-F	FACE TO FACE
FFE	FINISH FLOOR ELEVATION
FG	FORM GRADE
FIN GR	FINISHED GRADE
FL	FLOWLINE
FLG	FLANGE
FLR	FLOOR
FM	FORCE MAIN
FND	FOUND
FT	FOOT/FEET
FTG	FOOTING
FUT	FUTURE
FV	FIELD VERIFY
G	GUTTER
GC	GENERAL CONTRACTOR
GALV	GALVANIZED
GND	GROUND
GRAN	GRANULAR
GRD	GRADE
GV	GATE VALVE
HMA	HOT MIX ASPHALT
HORIZ	HORIZONTAL
HPT	HIGH POINT
HSD	HEADLIGHT STOPPING DISTANCE
HYD	HYDRANT
ID	INSIDE DIA/INSIDE DIM
IE	INVERT ELEVATION
IMP	IMPROVEMENTS
IN	INCHES
INV	INVERT
IP	IRON PIPE
JB	JUNCTION BOX
JT	JOINT/JOINT LENGTH
K	RATE OF VERT CURVATURE
L	LENGTH OF CURVE
LAT	LATERAL
LF	LINEAL FOOT
LONG	LONGITUDINAL
LP	LIGHT POLE
LPT	LOW POINT
LT	LEFT
MAX	MAXIMUM
ME	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
MP	MILE POST
N	NORTH
N/A	NOT APPLICABLE
NE'LY	NORTHEASTERLY
N'LY	NORTHERLY
NO/#	NUMBER
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NW'LY	NORTHWESTERLY
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	POINT OF CURVE
PERF	PERFORATED
PI	POINT OF INTERSECTION
P/L	PROPERTY LINE
PM	PRINCIPAL MERIDIAN
POB	POINT OF BEGINNING
POC	POINT OF CURVE
POT	POINT OF TANGENT
PRC	POINT OF REVERSE CURVE
PRELIM	PRELIMINARY
PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY

R	RADIUS
R&R	REMOVE & REPLACE
R&S	REMOVE & SALVAGE
RCB	REINFORCED CONCRETE BOX
RCAP	REINFORCED CONCRETE ARCH PIPE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REBAR	REINFORCING BAR
REF	REFERENCE
REINF	REINFORCING/REINFORCED
REV	REVISION
RIM	RIM ELEVATION
ROW	RIGHT OF WAY
RP	RADIUS POINT
RS	RESILIENT SEAT
RT	RIGHT
S	SOUTH
S=	SUPERELEVATION
SAN	SANITARY
SANS	SANITARY SEWER
SB	SOIL BORING
SCH	SCHEDULE
SD	SUB DRAIN
SEC	SECTION
SE'LY	SOUTHEASTERLY
SF	SQUARE FOOT
S.F.D.	STEP FOOTING DOWN
SHT	SHEET
SIG.	SIGNAL
SIM.	SIMILAR
S'LY	SOUTHERLY
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
SSD	STOPPING SIGHT DISTANCE
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STM	STORM
STMS	STORM SEWER
SW'LY	SOUTHWESTERLY
SY	SQUARE YARD
T	TANGENT LENGTH
T/B	TOP OF BANK
T/DITCH	TOP OF DITCH
T/C, TC	TOP OF CURB
T/GRAV	TOP OF GRAVEL
T/WALL	TOP OF WALL
T/P, TP	TOP OF PAVEMENT
T/S	TOP OF SLOPE
T/SUB	TOP OF SUBGRADE
T/W, TW	TOP OF WALK
T/WM	TOP OF WATER MAIN
T & B	TOP AND BOTTOM
T.O.B.	TOP OF BEAM
T.O.B.L.	TOP OF BRICK LEDGE
T.O.C.	TOP OF CONCRETE
T.O.E.F.	TOP OF EXISTING FOOTING
T.O.F.	TOP OF FOOTING
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PIER
T.O.S.	TOP OF STEEL
TCE	TEMP CONSTRUCTION EASEMENT
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK / THICKNESS
TWP	TOWNSHIP
TYP	TYPICAL
U	UTILITY
UAC	USE AS CONSTRUCTED
UE	UTILITY EASEMENT
UL	UNDERWRITERS LABORATORIES, INC.
ULFM	UNDERWRITERS LABORATORIES FACTORY MUTUAL
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VER	VERIFY
VERT	VERTICAL
VOL	VOLUME
VPC	VERT POINT OF CURVE
VPI	VERT POINT OF INTERSECTION
VPT	VERT POINT OF TANGENCY
W	WEST
W/	WITH
W'LY	WESTERLY
WM	WATER MAIN
W/O	WITHOUT
W.P.	WORKING POINT
WD	WOOD
WSO	WATER SHUT OFF
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
YD	YARD

# LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED
			CATCH BASIN
			AREA INTAKE
			STORM MANHOLE
			SANITARY MANHOLE
			UTILITY MANHOLE
			WATER VALVE MANHOLE
			FIRE HYDRANT
			WATER SHUT OFF
			WATER VALVE
			YARD HYDRANT
			GAS VALVE
			SIGN
			UTILITY POLE
			UTILITY POLE WITH LIGHT
			TRAFFIC SIGNAL POLE
			GUY ANCHOR
			LIGHT POLE
			UTILITY PEDESTAL
			WELL
			MAILBOX
			WATER LEVEL
			BOLLARD
			SOIL BORING
			POST INDICATOR VALVE
			DECIDUOUS TREE W/ TRUNK DIA.
			CONIFEROUS TREE W/ TRUNK DIA.
			SHRUB OR BUSH

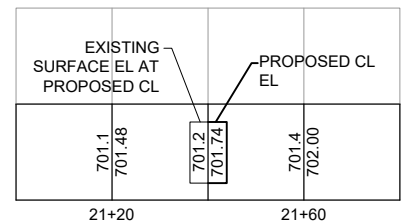
UTILITY LINES WITH DESIGNATORS WRAPPED IN PARENTHESIS SUCH AS (W) or (G) ARE LOCATED BASED ON MAP OR GIS DATA

# EROSION CONTROL LEGEND

TEMPORARY	TEMPORARY	PERMANENT	PERMANENT
SILT FENCE (STRAW WATTLES, FILTER SOCKS & SILT FENCE ARE GENERALLY INTERCHANGEABLE)	SEDIMENT TRAP	SEEDING	TURF REINFORCEMENT MAT (TRM)
PERIMETER CONTROL	INLET PROTECTION	SODDING	SLOPE DRAIN
CONCRETE WASHOUT	ROLLED EROSION CONTROL PRODUCT (RECP) PER PLAN	SEED, FERTILIZER & MULCH	PERMANENT DIVERSION
CONSTRUCTION ENTRANCE	STREAM CROSSING	OUTLET PROTECTION	LEVEL SPREADER
MULCHING	CONSTRUCTION ROAD STABILIZATION	REVETMENT SLOPE PROTECTION	VEGETATIVE STREAMBANK STABILIZATION
SEEDING	TEMPORARY DIVERSION	SOD DROP INLET PROTECTION	STRUCTURAL STREAMBANK STABILIZATION
COMPOST BLANKET	LEVEL SPREADER	CHECK DAM	RIP RAP LINED CHANNEL
DITCH CHECK (ROCK DAM)	DUST CONTROL	STONE CHECK	GRASS LINED CHANNEL ( ) MATERIAL REQUIRED
	SEDIMENT BASIN	SURFACE ROUGHENING	

# SURVEY

	FOUND REBAR
	FOUND IRON PIPE
	SET REBAR



PROFILE LEGEND

Rev	Description	Date
1	Issue For Bidding:	5-21-25
2	Project Number 25089	
3	Issue For Construction:	
4	Project Manager	
5	Issue For Construction:	
6	Project Manager	

ALL CONSTRUCTION SHALL BE PER APPLICABLE SECTIONS OF THE LATEST EDITION OF ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS AND STANDARD PLANS, STANDARD SPECIFICATION FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, EXCEPT AS MODIFIED OR SUPERCEDED BY THESE PLANS. THE SECTIONS APPLICABLE TO THESE PLANS INCLUDE, BUT MAY NOT BE LIMITED TO, THE FOLLOWING:

**GENERAL NOTES**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK WITH THE OWNER.
- THE CONTRACTOR AGREES THAT IT AND ITS REPRESENTATIVES HAVE VISITED THE SITE AND ARE FAMILIAR WITH THE EXISTING CONDITIONS, AND THE CONTRACTOR AGREES THAT THE EXISTING CONDITIONS ARE ACCURATELY REPRESENTED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE CONDITIONS REPRESENTED.
- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR ENSURING THAT THE LATEST REVISION OF THE APPROVED PLANS AND CONTRACT DOCUMENTS INCLUDING ADDENDA ARE AT THE PROJECT SITE AT ALL TIMES AND BEING USED APPROPRIATELY.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH CURRENT IDOT AND MUTCD STANDARDS.
- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION FROM RECORD INFORMATION OBTAINED FROM SOURCES OF VARYING RELIABILITY AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. EXISTENCE, LOCATION, DEPTH, SIZE OR MATERIAL MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND ENGINEER DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF ALL EXISTING UTILITIES AND SHALL CONTACT ONE CALL PRIOR TO COMMENCING WORK. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL EXISTENCE, LOCATION, DEPTH, SIZE AND MATERIAL OF UNDERGROUND UTILITIES OR OTHER FACILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED AS A RESULT OF THEIR FAILURE TO LOCATE EXISTING UTILITIES AND FACILITIES PRIOR TO COMMENCING WORK. THE ENGINEER MAKES NO GUARANTEE, AND NO WARRANTY IS IMPLIED, REGARDING THE ACCURACY OR COMPLETENESS OF INFORMATION SHOWN FOR EXISTING UTILITIES AND IMPROVEMENTS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF ANY FIELD CONFLICTS OR CHANGES IN CONDITIONS. FAILURE TO DO SO UPON DISCOVERY WILL VOID CLAIMS FOR COMPENSATION AS EXTRA WORK FOR THAT WHICH COULD HAVE BEEN MITIGATED HAD THE ENGINEER BEEN NOTIFIED AT TIME OF DISCOVERY.
- ANY PROPOSED REVISIONS TO THESE PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER, PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT AUTHORIZATION FROM THE ENGINEER OR CITY, WHERE APPLICABLE. ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE DESIGN ENGINEER SHALL ABSOLVE THE DESIGN ENGINEER OR CITY OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION OR CHANGE.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

**EROSION CONTROL**

- PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS. INSPECT, REPAIR, AND MAINTAIN EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
- THE CONTRACTOR SHALL TAKE PREVENTATIVE MEASURES TO CONTROL AIRBORNE DUST AND SHALL BE RESPONSIBLE FOR DAMAGE RESULTING FROM A FAILURE TO DO SO.
- THE CONTRACTOR SHALL KEEP ADJACENT STREETS CLEAN AND FREE OF DIRT OR DEBRIS AT ALL TIMES AND REMOVE ANY TRACKED MUD FROM THE STREET IMMEDIATELY. ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE CONTRACT PRICE AND ANY ADDITIONAL COSTS, FEES OR FINES RESULTING FROM FAILURE TO DO SO SHALL BE PAID BY THE CONTRACTOR.
- CLEARING AND GRUBBING: REMOVE OBSTRUCTIONS, TREES, SHRUBS, GRASS, AND OTHER VEGETATION AS INDICATED OR AS NECESSARY TO COMPLETE THE WORK. GRIND STUMPS AND REMOVE ROOTS AND OBSTRUCTIONS TO A MINIMUM DEPTH OF 18 INCHES BELOW THE SURFACE.
- TOPSOIL STRIPPING: REMOVE SOD AND GRASS BEFORE STRIPPING. STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED AND STOCKPILE AWAY FROM EDGE OF EXCAVATION.
- TOPSOIL REPLACEMENT: REPLACE TOPSOIL TO A MINIMUM DEPTH OF 4" OVER ALL DISTURBED AREAS.

**EARTHWORK AND TRENCHING**

- COMPLY WITH APPLICABLE PROVISIONS OF IDOT SPECIFICATIONS AND DOCUMENTS, DIVISION 200 - EARTHWORK, LANDSCAPING, AND EROSION CONTROL.
- EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND/OR SHEETED SO THAT THE EARTH WILL NOT SLIDE NOR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE TO ADJACENT IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NECESSARY REPAIRS OR REPLACEMENTS SHALL BE A THE CONTRACTOR'S OWN EXPENSE.
- PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, EROSION AND SEDIMENTATION CONTROL, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CAUSED BY EARTHWORK/TRENCHING OPERATIONS. CONTRACTOR RESPONSIBLE FOR REPAIRS TO DAMAGED SURFACES.
- EXCAVATIONS SHALL COMPLY WITH THE FOLLOWING:
  - ALL EXCAVATIONS SHOULD COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P, "EXCAVATIONS AND TRENCHES" AND OTHER APPLICABLE CODES.
  - EXCAVATE TO DIMENSIONS AND ELEVATIONS INDICATED OR AS NECESSARY TO MAKE THE PROPOSED IMPROVEMENTS.
  - UTILITY TRENCHES: TRENCHES SHALL FOLLOW THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS AND THE SPECIAL PROJECT REQUIREMENTS.
- PLACE BACKFILL ON SUBGRADES FREE OF MUD, FROST, SNOW OR ICE. PLACE AND COMPACT BACKFILL IN EXCAVATIONS PROMPTLY.
- PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- SUBBASE AND BASE COURSE: SHAPE SUBBASE AND BASE COURSE TO REQUIRED CROWN ELEVATIONS AND CROSS-SLOPE GRADES. FOR SUBBASE OR BASE COURSES LESS THAN 6 INCHES, PLACE IN COMPACTED THICKNESS IN A SINGLE LAYER; FOR SUBBASE OR BASE COURSES GREATER

- THAN 6 INCHES IN COMPACTED THICKNESS, PLACE IN MULTIPLE LAYERS OF EQUAL THICKNESSES, WITH NO COMPACTED LAYER LESS THAN 3 INCHES OR GREATER THAN 6 INCHES.
- CONTRACTOR SHALL NOTIFY PROJECT ENGINEER TO OBTAIN SAMPLES AND PERFORM LABORATORY DENSITY TESTING AND TO CONDUCT TESTS AS REQUIRED. COMPACTION REQUIREMENTS ARE SUBJECT TO ADJUSTMENT DEPENDING UPON THE MATERIAL DENSITY.
  - LEGALLY DISPOSE OF SURPLUS MATERIAL AND WASTE MATERIALS OFF OWNER'S PROPERTY UNLESS OTHERWISE APPROVED BY THE CITY AND ENGINEER.

**WATER MAIN**

THE FOLLOWING ARE SPECIAL PROJECT REQUIREMENTS FOR THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS RELATIVE TO THIS PROJECT.

UTILITIES TO BE INSTALLED FOR THE PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TECHNICAL PROVISIONS OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" (8TH EDITION, JUNE 2020), EXCEPT AS MODIFIED BY THE FOLLOWING SPECIAL PROJECT REQUIREMENTS. A COPY OF THE CURRENT STANDARD SPECIFICATIONS MAY BE OBTAINED FROM THE ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS (217-544-7424).

ADDITIONAL REQUIREMENTS, MEASUREMENT AND PAYMENT INFORMATION FOR THE PROJECT SHALL BE IDENTIFIED IN THE BID ITEM NOTES FOR THE PROJECT INCLUDED ON PLAN SHEET G0.04 AND G0.05.

**SPECIAL PROJECT REQUIREMENTS**

**DIVISION II EXCAVATION AND CLEANUP**  
SECTION 20. EXCAVATION AND BACKFILL FOR PIPES

- |          |  |
|----------|--|
| 20-3.01  | BEDDING, HAUNCHING AND INITIAL BACKFILL FOR THE WATER MAIN CONSTRUCTION  |
| 8 & 3.02 | SHALL CONSIST OF SELECT GRANULAR MATERIAL STONE GRADATION CA-6, CA-7, CA-9, CA-10, CA-18, OR ENGINEER APPROVED EQUIVALENT AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.<br>FOUNDATION STONE: FOUNDATION STONE, IF NEEDED, FOR WATER MAIN SHALL BE CRUSHED STONE ONLY, OF AN APPROPRIATE SIZE. FOUNDATION STONE PAYMENT WILL ONLY BE MADE IF THE CONTRACTOR OBTAINS PRIOR AUTHORIZATION FROM THE ENGINEER FOR THE USE OF FOUNDATION STONE. FOUNDATION STONE SHALL BE ILLINOIS DOT GRADATION CA2 OR CA4 OR ALTERNATE GRADATION (3 INCH MAXIMUM) AS APPROVED BY THE ENGINEER. |
| 20-3.03  | FINAL BACKFILL MATERIAL SHALL BE SELECT GRANULAR MATERIAL. SELECT GRANULAR MATERIAL SHALL BE IN ACCORDANCE WITH IDOT CA-6, CA-7, CA-9, CA-10 OR CA-18 OR ENGINEER APPROVED EQUIVALENT.   |
| 20-4.01  | SURFACE REMOVAL WORK SHALL BE NECESSARY FOR SAFE TRENCHING AND SHALL BE INCIDENTAL TO OTHER WORK, UNLESS NOTED ELSEWHERE. THE CONTRACTOR SHALL SALVAGE, STORE AND REPLACE TOPSOIL IN ALL EXISTING AREAS.   |
| 20-4.04  | THE CONTRACTOR SHALL PROVIDE ADEQUATE DEWATERING OF THE TRENCHES TO ALLOW FOR PROPER INSTALLATION OF THE PROPOSED IMPROVEMENTS. DEWATERED WATER SHALL NOT BE DISPOSED OF IN ANY SANITARY SEWER LINES.  |
| 20-4.05  | ALL BEDDING AND HAUNCHING MATERIAL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY. IN LOCATIONS WHERE ROCK IS ENCOUNTERED THE ROCK SHALL BE REMOVED TO THE DEPTHS INDICATED IN THE SPECIFICATIONS AND PLAN SHEETS. THE CONTRACTOR SHALL UTILIZE SELECT GRANULAR MATERIAL TO REPLACE FOUNDATION, BEDDING, HAUNCHING, INITIAL AND FINAL BACKFILL TO THE EXTENT OF WHERE ROCK EXCAVATION OCCURS.   |
| 20-4.06  | INITIAL AND FINAL BACKFILL MATERIAL FOR THE PROPOSED UTILITIES SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY. FINAL BACKFILL SHALL BE COMPACTED PER METHOD 1. IN LOCATIONS WHERE ROCK IS ENCOUNTERED THE ROCK SHALL BE REMOVED TO THE DEPTHS INDICATED IN THE SPECIFICATIONS OR PLANS. THE CONTRACTOR SHALL UTILIZE SELECT GRANULAR MATERIAL TO REPLACE FOUNDATION, BEDDING, HAUNCHING, INITIAL AND FINAL BACKFILL TO THE EXTENT OF WHERE ROCK EXCAVATION OCCURS.  |

**SECTION 21. RESTORATION OF SURFACES**

- |          |   |
|----------|---|
| 21-2.03B | THE BASE REPLACEMENT SHALL BE A MINIMUM TEN (10) INCH COMPACTED THICKNESS. BASE REPLACEMENT SHALL CONFORM TO CA6 OR CA10 AS DESCRIBED IN THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."   |
| 21-2.03D | THE BASE REPLACEMENT SHALL CONSIST OF A MINIMUM TEN (10) INCHES. BASE REPLACEMENT SHALL CONFORM TO CA6 OR CA10 AS DESCRIBED IN THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."<br>HMA LEVELING BINDER COURSE SHALL BE N50 PER ILLINOIS DOT REQUIREMENTS. HMA SURFACE COURSE SHALL BE MIX C, N50 PER ILLINOIS DOT REQUIREMENTS.<br>CONTRACTOR SHALL CLEAN AND PRIME VERTICAL SURFACES TO ABUT HMA PRIOR TO PAVING. PRIMER TO BE PLACED ON SUBBASE PRIOR TO PLACEMENT OF HMA BINDER COURSE.<br>TACK BETWEEN LIFTS ONLY IF SUBSEQUENT LIFTS DO NOT IMMEDIATELY FOLLOW THE LOWER LIFT AND/OR THE SURFACE OF THE LOWER LIFT BECOMES DIRTY.                          |
| 21-2.03F | THE BASE REPLACEMENT SHALL BE A MINIMUM SIX (6) INCH OF COMPACTED THICKNESS FOR DRIVEWAYS, GUTTER, AND CURB AND GUTTER. THE BASE REPLACEMENT SHALL BE A MINIMUM OF FOUR (4) INCH OF COMPACTED THICKNESS FOR SIDEWALK. THE BASE REPLACEMENT SHALL CONFORM TO CA6 OR CA10 AS DESCRIBED IN THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."  |
| 21-2.05  | NO SODDING REQUIRED. USE CLASS 1A SEED MIX FOR LAWNS AND HIGHWAY DITCHES. SPRING SEEDING SHALL BE APRIL 1 TO JUNE 15. FALL SEEDING SHALL BE AUGUST 1 TO OCTOBER 30, UNLESS OTHERWISE APPROVED. ALTERNATE SEED MIXTURES WILL BE CONSIDERED BY THE ENGINEER. ALL SEEDED AREAS SHALL BE MULCHED WITH CEREAL GRAIN MULCH FREE FROM NOXIOUS WEEDS. MULCH SHALL BE APPLIED AT A RATE OF 70 TO 90 POUNDS PER 1,000 SF. MULCH SHALL BE ANCHORED INTO THE SOIL USING MULCH ANCHORING EQUIPMENT DESIGNED TO ANCHOR THE MULCH INTO THE SOIL BY MEANS OF DULL BLADES OR DISKS WITH A MINIMUM OF TWO PASSES. MULCH SHALL NOT BE PLACED WITH WINDS IN EXCESS OF 15 MPH UNLESS OTHERWISE APPROVED. |

**DIVISION IV WATER DISTRIBUTION**

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| 40-2.01B   | SECTION 40. PIPE FOR WATER MAINS AND SERVICE CONNECTIONS<br>ALL FIRE HYDRANT LEADS SHALL BE THICKNESS CLASS 52 DUCTILE IRON PIPE. HYDRANT LEADS SHALL BE FROM WATER MAIN TEE TO VALVE TO HYDRANT. ALL JOINTS BETWEEN THE TEE AND HYDRANT SHALL BE RESTRAINED.<br>JOINTS SHALL CONFORM TO AWWA C111 (MECHANICAL OR PUSH-ON), MECHANICAL JOINT RESTRAINTS SHALL BE AMERICAN MADE AND SHALL BE MANUFACTURED BY EBAA, TYLER OR APPROVED ALTERNATE.  |
| 40-2.01C   | ALL DUCTILE IRON PIPE SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT ACCORDING TO AWWA C104.<br>ALL PVC WATER MAIN SHALL BE PRESSURE CLASS 235 DR18 PVC PER AWWA C900. JOINTS SHALL BE ELASTOMERIC GASKET. MECHANICAL JOINT RESTRAINTS SHALL BE AMERICAN MADE AND SHALL BE MANUFACTURED BY EBAA, TYLER OR APPROVED ALTERNATE. RESTRAINED PUSH-ON JOINTS SHALL BE ACCOMPLISHED WITH AMERICAN MADE PUSH-ON JOINT RESTRAINTS WITH A STAINLESS STEEL SPLIT RING ASSEMBLY BOLT AND NUT. JOINT RESTRAINTS SHALL HAVE A WORKING PRESSURE EQUAL TO OR GREATER THAN PIPE WORKING PRESSURE RATING.   |
| 40-2.02    | ALL JOINTS IN WATER MAIN AND HYDRANT LEADS SHALL BE RUBBER GASKET TYPE UNLESS INDICATED OTHERWISE ON INDIVIDUAL PLAN SHEETS.  |
| 40-2.05A/B | ALL WATER MAIN FITTINGS SHALL BE COMPACT DUCTILE IRON PER AWWA C153 WITH MECHANICAL JOINTS PER AWWA C111 AND MORTAR LINED. FITTINGS SHALL BE MADE IN THE USA.   |
| 40-2.06A/B | WATER SERVICES SHALL BE MADE OF POLYETHYLENE. POLYETHYLENE WATER SERVICE LINES SHALL BE CTS AND SHALL HAVE A WORKING PRESSURE RATING OF 200 PSI. ALL CONNECTIONS TO COUPLINGS, VALVES, FITTINGS, ETC. SHALL REQUIRE THE USE OF STAINLESS STEEL STIFFENERS IN THE POLYETHYLENE WATER SERVICE PIPE.   |
| 40-2.06C   | ALL SERVICES SHALL HAVE TAPPING SADDLES INSTALLED FOR C900 PVC PIPE. TAPPING SADDLES SHALL HAVE AWWA (CC) OUTLETS.<br>ALL CORPORATION STOPS SHALL COMPLY WITH AWWA C800 AND BE BALL TYPE RATED FOR 300 PSI. CORPORATION STOPS FOR POLYETHYLENE PIPE SHALL HAVE AWWA BY GRIP RING COMPRESSION CONNECTIONS WITH STAINLESS STEEL INSERT STIFFENER. CORPORATION STOPS SHALL BE A.Y. MCDONALD 747013Q OR ENGINEER APPROVED ALTERNATE WITH THE PROPER COMPRESSION CONNECTION STYLE FOR THE PROPOSED SERVICE LINE.<br>ALL CURB STOPS SHALL COMPLY WITH AWWA C800 AND BE BALL TYPE RATED FOR 300 PSI AND HAVE MINNEAPOLIS PATTERN. CONNECTIONS WITH STAINLESS STEEL INSERT STIFFENER. CURB STOP SHALL BE A.Y. MCDONALD 761043Q OR ENGINEER A PPROVED ALTERNATE WITH PROPER COMPRESSION STYLE CONNECTION FOR THE PROPOSED SERVICE LINE MATERIAL.<br>THE CURB BOXES SHALL BE MINNEAPOLIS PATTERN A.Y. MCDONALD MODEL 5614A OR ENGINEER APPROVED ALTERNATE.<br>CONNECTIONS BETWEEN THE PROPOSED WATER SERVICES AND THE EXISTING SERVICES SHALL BE MADE WITH APPROPRIATELY SIZED COMPRESSION TYPE LOW LEAD BRASS COUPLINGS. THE CONTRACTOR WILL BE REQUIRED TO DETERMINE THE SIZE AND MATERIAL TYPE OF THE EXISTING WATER PIPING EXITING EACH BUILDING TO DETERMINE THE APPROPRIATE CONNECTION TYPE AND SIZE COUPLING REQUIRED. |

**SECTION 41. PIPE INSTALLATION FOR WATER MAINS**

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|----------|---|
| 41-1     | PVC AND DIP WATER MAIN SHALL BE INSTALLED IN ACCORDANCE OF THE PROJECT SPECIAL PROVISIONS AND DETAILS INCLUDED IN THE PLANS.<br>CONSTRUCTION RECORDS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONSTRUCTION RECORDS INCLUDING MEASUREMENTS BETWEEN FITTINGS, BETWEEN FITTINGS AND VALVES, BETWEEN VALVES AND HYDRANTS, CORPORATIONS, AND CURB STOPS, ETC. MEASUREMENTS BETWEEN EXISTING SURFACE FEATURES AND VALVES (GATES AND CURB) AND FITTINGS SHALL ALSO BE TAKEN. COPIES OF CONSTRUCTION RECORDS SHALL BE PROVIDED TO THE ENGINEER/CITY.  |
| 41-2.02  | MINIMUM DEPTH OF COVER SHALL BE 5.5 FEET FROM THE SURFACE TO THE TOP OF PIPE.   |
| 41-2.04  | CURVED SEGMENTS FOR PVC WATER MAIN SHALL BE ACCOMPLISHED BY DEFLECTING THE PIPE. DO NOT DEFLECT PIPE BEYOND MANUFACTURER'S RECOMMENDATIONS. MINIMIZE PIPE DEFLECTION AS MUCH AS POSSIBLE. INSTALL ADDITIONAL FITTINGS IF NECESSARY.   |
| 41-2.08A | TRACER WIRE SHALL BE 12 GAUGE (MINIMUM) SOLID COPPER WIRE WITH POLYETHYLENE INSULATION (30 MIL MINIMUM). TRACER WIRE SHALL BE INSTALLED ON TOP OF THE WATER MAIN FOR INDICATION OF LOCATION. SPLICES SHALL BE AVOIDED IF POSSIBLE, OTHERWISE WATERPROOF CONNECTIONS ARE REQUIRED.<br>TRACER WIRE ACCESS BOXES SHALL BE COPPERHEAD INDUSTRIES SNAKEPI(T)R LITE DUTY ACCESS POINT, OR APPROVED EQUAL, INSTALLED ADJACENT TO THE FIRE HYDRANT OR VALVES, COORDINATE WITH THE CITY. ACCESS BOXES SHALL HAVE A 2-INCH PVC EXTENSION RISER FROM THE TOP OF THE WATER MAIN. SUPPLY AND PLACEMENT OF ACCESS BOXES SHALL BE INCIDENTAL TO COST OF WATER MAIN UNLESS OTHERWISE INDICATED. |
| 41-2.10  | SEE WATER MAIN CONSTRUCTION NOTES FOR MAXIMUM OPERATING PRESSURES AND TEST PRESSURES THROUGHOUT THE PROPOSED PROJECT. MECHANICAL JOINT RESTRAINTS SHALL BE AMERICAN MADE AND SHALL BE MANUFACTURED BY EBAA, TYLER OR APPROVED ALTERNATE. RESTRAINED PUSH-ON JOINTS SHALL BE ACCOMPLISHED WITH AMERICAN MADE PUSH-ON JOINT RESTRAINTS WITH A STAINLESS STEEL SPLIT RING ASSEMBLY BOLT AND NUT.   |

**SECTION 42. GATE VALVES FOR WATER MAINS**

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|---------|---|
| 42-1    | WATER MAIN GATE VALVES SHALL BE RESILIENT SEAT AND CONFORM TO AWWA C509 OR C515.  |
| 42-2.02 | VALVE BODY SHALL BE DUCTILE IRON. DOUBLE DISC VALVES ARE NOT ACCEPTABLE. VALVES SHALL HAVE NUT OPERATOR AND OPEN COUNTER-CLOCKWISE (LEFT). ALL MACHINE BOLTS (NUT, BONNET, PACKING) SHALL BE STAINLESS STEEL. |
| 42-3    | ALL VALVES SHALL HAVE MECHANICAL JOINT CONNECTIONS PER AWWA C111.   |
| 42-6    | WRENCH NUTS SHALL BE 2 INCH STANDARD.   |

**SECTION 44. VALVE VAULTS AND BOXES FOR WATER MAINS AND WATER SERVICES**

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|---------|---|
| 44-3.02 | VALVE BOXES SHALL BE AMERICAN MADE, TYLER 6850 OR APPROVED EQUAL, WITH ADAPTOR II VALVE BOX CENTRALIZER BY ADAPTOR INC. |
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| 45-2.01 | SECTION 45. FIRE HYDRANTS<br>FIRE HYDRANTS SHALL BE MUELLER CENTURION OR KENNEDY K-81 GUARDIAN OIL-LUBRICATED. ALTERNATE HYDRANTS MUST BE APPROVED IN WRITING.<br>ALL MACHINE BOLTS BELOW GROUND SURFACE ON HYDRANT SHALL BE SST. TRAFFIC BREAKAWAY REQUIRED.                |
| 45-2.02 | HYDRANTS SHALL BE 6.0 FOOT BURY (5.5 FOOT OF COVER) OVER 6 INCH DIP. HYDRANTS SHALL BE 2 WAY (TWO 2.5 INCH NOZZLES AND ONE 4.5 INCH PUMPER NOZZLE) AND HAVE STANDARD PENTAGON OPERATING NUTS (HYDRANT AND NOZZLES). HYDRANT TO OPEN CCW. PUMPER NOZZLE SHALL BE STORZ-STYLE. |
| 45-2.04 | CONTRACTOR TO COORDINATE WITH CITY TO DETERMINE HYDRANT PAINT COLORS.  |



Client Name  
**CITY OF GALENA, ILLINOIS**

Project Name  
**ELM STREET WATER MAIN EXTENSION 2025**

Location / Description  
**GALENA, IL**

Rev	Description	Date
Project Number 25089	Issued For Bidding:	5-21-25
Project Manager	Issued For Construction:	
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Sheet Title

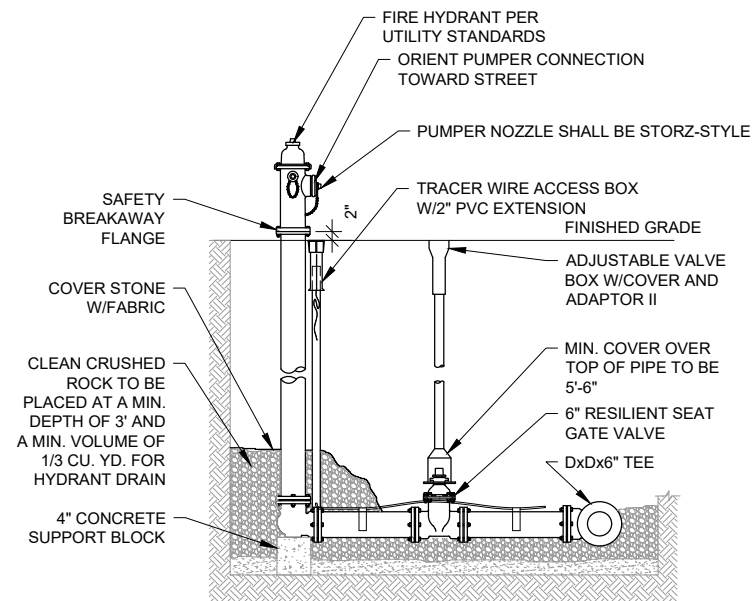
**SPECIAL PROVISIONS**

**G0.03**

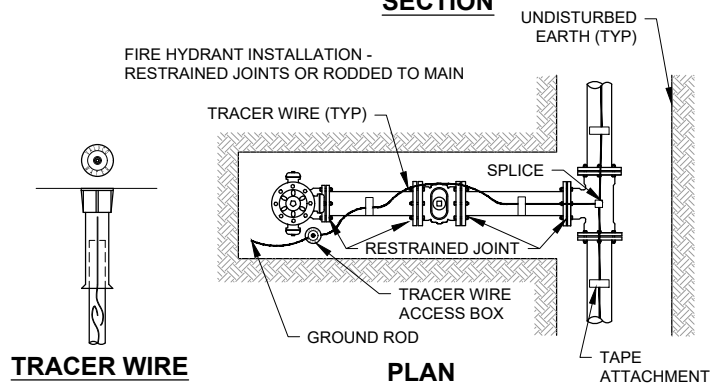
CITY OF GALENA, ILLINOIS ELM STREET WATER MAIN EXTENSION 2025				
BID ITEM NO.	BID ITEM	QTY	UNIT	BID ITEM NOTE
1	MOBILIZATION & MISCELLANEOUS	1	LS	LUMP SUM INCLUDES THE FOLLOWING, BUT NOT LIMITED TO, THE MOVEMENT OF PERSONNEL, EQUIPMENT, AND SUPPLIES TO THE PROJECT SITE, BONDING, PERMITS, OR OTHER EXPENSES INCURRED PRIOR TO CONSTRUCTION AND ANY ADDITIONAL MISCELLANEOUS COSTS ASSOCIATED WITH THE PROJECT.
2	TRAFFIC CONTROL	1	LS	THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH CURRENT ILLINOIS DOT AND MUTCD STANDARDS. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR RESIDENTS AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE AND NOTIFY THE CITY WITH THE PROPOSED TRAFFIC CONTROL PLAN FOR THE PROJECT NECESSARY TO COMPLETE THE IMPROVEMENTS. LUMP SUM PRICE INCLUDES, BUT NOT LIMITED TO, INSTALLATION, MAINTENANCE, AND REMOVAL OR TEMPORARY TRAFFIC CONTROL INCLUDING UTILITY WORK.
3	EXPLORATORY EXCAVATION	10	HRS	THIS BID ITEM IS TO BE USED TO ALLOW THE CONTRACTOR TO VERIFY AND REFINE THE LOCATIONS OF MARKED UTILITIES (PARTICULARLY AT PROPOSED CROSSING LOCATIONS). IN ADVANCE OF EXCAVATION, SUBJECT TO THE INSPECTOR/ENGINEER'S APPROVAL. THIS BID ITEM SHALL INCLUDE ALL MANPOWER AND EQUIPMENT TIME NECESSARY TO EXPOSE THE UTILITY LINE(S) IN QUESTION.
4	TOPSOIL: STRIP, SALVAGE, & REPLACE	125	CY	THE CONTRACTOR SHALL STRIP, SALVAGE AND REPLACE TOPSOIL TO MINIMUM DEPTH OF 6 INCHES, OR TO MATCH EXISTING THICKNESS. PAYMENT OF TOPSOIL SHALL BE PAID FOR AT PLAN QUANTITY, UNLESS OTHERWISE ENGINEER APPROVED. THE CITY WILL SEED, FERTILIZE AND MULCH THE AREAS THE CONTRACTOR TOPSOILS. THE CONTRACTOR SHALL PROPERLY PREPARE THE TOPSOIL FOR SEEDING.
5	TREE REMOVAL	66	UNIT DIA.	UNIT PRICE INCLUDES BUT NOT LIMITED TO CUTTING AND DISPOSING OF TREE, TREE STUMP AND ROOT BALL, AND BACKFILLING WITH SUITABLE MATERIAL BACK TO EXISTING ELEVATIONS. TREES TO BE REMOVED AS A PAYMENT ITEM WILL BE MEASURED PER UNIT OF DIAMETER WHERE ONE UNIT IS EQUAL TO 1 IN. THE DIAMETER WILL BE MEASURED AT A POINT OF 4.5 FT ABOVE THE HIGHEST GROUND LEVEL AT THE BASE OF THE TREE AND WILL BE DETERMINED BY DIVIDING THE MEASURED CIRCUMFERENCE OF THE TREE BY 3.1416. STUMPS WILL BE MEASURED AT THE ELEVATION OF CUT OFF. A MULTIPLE STEM TREE'S BRANCHES HAVING A DIAMETER OF 6IN. OR MORE AT A POINT 4.5 FT ABOVE THE HIGHEST GROUND LEVEL AT THE BASE OF THE TREE WILL BE MEASURED FOR PAYMENT AS INDIVIDUAL TREES. THE ACCUMULATED TOTAL NUMBER OF UNITS WILL BE THE PAY QUANTITY.
6	6" PVC WATER MAIN, DR 18	730	LF	UNIT PRICE INCLUDES, BUT NOT LIMITED TO, TRENCH EXCAVATION; DEWATERING; FURNISHING AND INSTALLING PIPE; PLACING AND COMPACTING BEDDING AND BACKFILL MATERIAL; TRACER SYSTEM; TESTING; AND DISINFECTION. MEASUREMENT WILL INCLUDE LENGTHS THROUGH FITTINGS, AND VALVES. IF SELECT GRANULAR MATERIAL IS REQUIRED IT WILL BE PAID FOR UNDER THE ASSOCIATED BID ITEM.
7	6" DIP HYDRANT LEAD	20	LF	UNIT PRICE INCLUDES, BUT NOT LIMITED TO, TRENCH EXCAVATION; DEWATERING; FURNISHING AND INSTALLING PIPE; PLACING AND COMPACTING BEDDING AND BACKFILL MATERIAL; TRACER SYSTEM; TESTING; AND DISINFECTION. MEASUREMENT WILL INCLUDE LENGTHS THROUGH FITTINGS, AND VALVES. IF SELECT GRANULAR MATERIAL IS REQUIRED IT WILL BE PAID FOR UNDER THE ASSOCIATED BID ITEM. DIP SHALL BE MANUFACTURED IN THE UNITED STATES.
8	6" MJ VALVE	7	EA	UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, FURNISHING AND INSTALLING ALL COMPONENTS NECESSARY TO INSTALL THE PROPOSED VALVE INCLUDING THE VALVE BOX AND CENTRALIZER. VALVES SHALL BE MANUFACTURED IN THE UNITED STATES.
9	FIRE HYDRANT, COMPLETE	3	EA	UNIT PRICE INCLUDES, BUT NOT LIMITED TO, FURNISHING AND INSTALLATION OF THE FIRE HYDRANT, BARREL EXTENSIONS SUFFICIENT TO ACHIEVE PROPER BURY DEPTH OF ANCHORING PIPE AND HEIGHT OF FIRE HYDRANT ABOVE FINISHED GRADE, EXCAVATION, BACKFILL AND BEDDING; PEA GRAVEL OR POROUS BACKFILL MATERIAL AND BACKFILL OF FIRE HYDRANT. INSTALLATION SHALL BE IN ACCORDANCE WITH PLAN DETAILS, NOTES, SPECIAL PROVISIONS AND REFERENCED SPECIFICATIONS. HYDRANTS SHALL BE MANUFACTURED IN THE UNITED STATES.
10	6" MJ RESTRAINT	60	EA	UNIT PRICE INCLUDES, BUT NOT LIMITED TO, FURNISHING AND INSTALLATION OF MJ RESTRAINT IN THE LOCATIONS AND THE LENGTHS IDENTIFIED IN THE PLANS. MEASUREMENT WILL BE MADE PER MJ RESTRAINT UTILIZED ON THE PROJECT. MJ RESTRAINTS INCLUDING HARDWARE SHALL BE MANUFACTURED IN THE UNITED STATES.
11	COMPACT DI FITTINGS, WATER MAIN	850	LBS	UNIT PRICE SHALL INCLUDE, BUT NOT LIMITED TO, FURNISHING AND INSTALLING COMPACT DUCTILE IRON FITTINGS. MEASUREMENT SHALL CONSIST OF ACTUAL BODY WEIGHT OF THE COMPACT DUCTILE IRON FITTINGS INSTALLED EXCLUDING GLANDS, GASKETS AND BOLTS. TYLER WEIGHTS TO BE USED UNLESS THE CONTRACTOR FURNISHES ACTUAL WEIGHTS. FITTINGS AND ASSOCIATED HARDWARE SHALL BE MANUFACTURED IN THE UNITED STATES.

CITY OF GALENA, ILLINOIS ELM STREET WATER MAIN EXTENSION 2025				
BID ITEM NO.	BID ITEM	QTY	UNIT	BID ITEM NOTE
12	CONNECTION TO EXISTING WATER MAIN	4	EA	CONNECTION TO EXISTING WATER MAIN SHALL BE MADE UTILIZING A MJ FITTING OR MJ SLEEVE AS DETAILED IN THE PLANS. ALL NECESSARY COMPONENTS AND WORK TO MAKE THE CONNECTIONS TO THE EXISTING WATER MAIN SHALL BE INCLUDED IN THIS BID ITEM, NO OTHER BID ITEMS WILL BE UTILIZED TO COVER THE COSTS OF MAKING THE NECESSARY CONNECTIONS TO THE EXISTING WATER MAIN, EXCEPT CONNECTIONS TO EXISTING WATER MAIN UTILIZING PROPOSED MJ FITTINGS, EXCLUDING MJ SLEEVES. IF CONNECTIONS TO EXISTING WATER MAIN ARE COMPLETED UTILIZING A MJ FITTING, EXCLUDING MJ SLEEVES, THE CONTRACTOR WILL BE PAID FOR THE MJ FITTINGS IN ADDITION TO THE CONNECTION TO EXISTING WATER MAIN WITH THE COMPACT DI FITTINGS, WATER MAIN BID ITEM, MJ RESTRAINT ON EXISTING WATER MAIN WILL BE INCIDENTAL TO THE CONNECTION TO EXISTING WATER MAIN AS IDENTIFIED IN THE PLANS. THE CONTRACTOR SHALL ASSIST THE CITY IN NOTIFYING AFFECTED PROPERTIES WHEN WATER IS TO BE SHUT OFF TO MAKE THE CONNECTIONS. WATER SHUT DOWNS SHALL NOT LAST LONGER THAN 4 HOURS IN LENGTH. THE CONTRACTOR SHALL NOTIFY THE CITY A MINIMUM OF 24 HOURS PRIOR TO A WATER SHUT DOWN. DUE TO THE AREAS SERVED BY THE WATER MAIN ASSOCIATED WITH THE PRV STATIONS, THE CITY MAY REQUIRE THE CONTRACTOR TO COORDINATE THAT THE SHUT DOWN OCCUR OUTSIDE OF NORMAL BUSINESS HOURS, AT NO ADDITIONAL COST TO THE CITY. COMPONENTS UTILIZED TO CONNECT TO THE EXISTING WATER MAIN SHALL BE MANUFACTURED IN THE UNITED STATES.
13	3/4" WATER SERVICE	50	LF	THE BID ITEM UNIT PRICE SHALL INCLUDE, BUT NOT LIMITED TO, TRENCH EXCAVATION, DEWATERING, FURNISHING AND INSTALLING PIPE, FURNISHING, PLACING, AND COMPACTING BEDDING AND BACKFILL MATERIAL. MEASUREMENT INCLUDES LENGTHS FROM CENTER OF WATER MAIN THRU CORPORATION STOP TO CURB STOP OR CONNECTION TO EXISTING SERVICE. IF A LEAD SERVICE LINE IS DISCOVERED, THE WATER SERVICE SHALL BE REPLACED FROM WATER MAIN TO A NEW CURB STOP LOCATED 4 FT BEHIND EDGE OF PAVEMENT AND CONNECTION TO EXISTING SERVICE LINE. IF EX SERVICE LINE IS NOT LEAD THAN CONTRACTOR SHALL REPLACE SERVICE FROM WATER MAIN AND CONNECT TO EX SERVICE USING APPROPRIATE COUPLING. IF SELECT GRANULAR MATERIAL IS REQUIRED IT WILL BE PAID FOR UNDER THE ASSOCIATED BID ITEM.
14	3/4" CORPORATION STOP	1	EA	THE BID ITEM SHALL INCLUDE, BUT NOT LIMITED TO, FURNISHING AND INSTALLING THE CORPORATION STOP, TAPPING SADDLE AND MAKING TAP OF PROPOSED WATER MAIN FOR THE PROPOSED WATER SERVICE IN ACCORDANCE WITH THE PLANS AND NOTES.
15	3/4" CURB STOP & CURB BOX	1	EA	THE BID ITEM UNIT PRICE SHALL INCLUDE, BUT NOT LIMITED TO, FURNISHING AND INSTALLING THE CURB STOP AND CURB BOX IN ACCORDANCE WITH PLANS, NOTES AND REFERENCED SPECIFICATIONS. CURB STOP AND CURB BOX ONLY REQUIRED WHERE AN EXISTING LEAD SERVICE LINE IS BEING REPLACED. CURB STOP AND CURB BOX SHALL TYPICALLY BE LOCATED 4 FEET BEHIND BACK OF CURB AND GUTTER.
16	SELECT TRENCH BACKFILL, WATER MAIN & WATER SERVICES	390	LF	SELECT TRENCH BACKFILL WILL BE USED TO PAY FOR THE BEDDING, HAUNCHING, INITIAL AND FINAL BACKFILL ASSOCIATED WITH THE IMPORTED SELECT GRANULAR MATERIAL AS REQUIRED FOR THE WATER MAIN AND WATER SERVICE INSTALLATION THAT IS UNDER OR WITHIN 5 FEET OF EXISTING OR PROPOSED PAVEMENT OR GRANULAR SURFACING. THIS BID ITEM INCLUDES, BUT NOT LIMITED TO, FURNISHING, HAULING, AND PLACING BEDDING, HAUNCHING, INITIAL AND FINAL BACKFILL MATERIAL AND HAULING AND DISPOSING OF TRENCH EXCAVATED MATERIAL.
17	ROCK EXCAVATION, INC. BACKFILL	10	CY	THIS BID ITEM COST SHALL BE INCLUDE, BUT NOT LIMITED TO, REMOVAL AND DISPOSAL OF ROCK FROM UTILITY TRENCH EXCAVATION, PRV INSTALLATION, INSTALLING SELECT GRANULAR MATERIAL. ROCK IS DEFINED AS BOULDERS OR SEDIMENTARY DEPOSITS THAT CANNOT BE REMOVED IN TRENCHES WITHOUT CONTINUOUS USE OF PNEUMATIC OR HYDRAULIC TOOLS. BOULDERS SHALL NOT BE CLASSIFIED AS ROCK UNLESS LARGER THAN ONE-HALF CUBIC YARDS. THE ACUTAL QUANTITY PAID FOR THIS BID ITEM MAY CHANGE DEPENDING ON WHAT IS DISCOVERED IN THE FIELD.
18	STONE BASE	200	TON	STONE BASE SHALL BE PAID FOR UNDER HMA PAVEMENT WHERE FULL DEPTH REMOVALS ARE PROPOSED. UNIT PRICE INCLUDES, BUT NOT LIMITED TO, FURNISHING, PLACING, COMPACTING OF SUBBASE INCLUDING TRIMMING TO THE PROPER GRADE. PLACEMENT SHALL BE COMPLETED IN ACCORDANCE WITH PLAN NOTES AND ILLINOIS DOT STANDARD SPECIFICATIONS FOR STONE BASE. STONE BASE THICKNESS SHALL BE 10" UNDER HMA; STONE BASE SHALL BE CA-10 OR ENGINEER APPROVED EQUIVALENT.
19	PCC COLLAR AROUND WATER VALVE BOXES	2	EA	PCC CONCRETE COLLARS AROUND WATER VALVE BOXES SHALL BE INSTALLED IN PROPOSED PAVING OR PAVEMENT REHABILITATION AREAS. UNIT PRICE SHALL INCLUDE THE FOLLOWING, BUT NOT LIMITED TO, EXCAVATION, CONCRETE, BARS AND REINFORCEMENT, JOINTS AND SEALING, SURFACE CURING AND PAVEMENT PROTECTION.
20	GRANULAR SURFACING	60	TON	THIS BID ITEM INCLUDES GRANULAR DRIVEWAYS AND GRANULAR SHOULDERS. UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, FURNISHING, PLACING, COMPACTING OF GRANULAR SURFACING INCLUDING TRIMMING TO THE PROPER GRADE. GRANULAR SURFACING SHALL BE A MINIMUM OF 8" (COMPACTED) THICK, PLACED IN LIFTS NO THICKER THAN 6 INCHES (COMPACTED). GRANULAR SURFACING SHALL BE ILLINOIS DOT STONE GRADATION CA10, OR ENGINEER APPROVED EQUIVALENT
21	HMA LEVELING BINDER COURSE, N50, 2" THICKNESS	40	TON	THIS BID ITEM SHALL INCLUDE, BUT NOT LIMITED TO, FURNISHING AND PLACING ASPHALT MIX WITH ASPHALT BINDER, PRIME COAT ON EXISTING SURFACE/STONE BASE AND CONSTRUCTION ZONE PROTECTION. THIS INCLUDES ASPHALT FOR DRIVEWAY REPLACEMENTS.
22	HMA SURFACE COURSE MIX C, N50, 2" THICKNESS	40	TON	THIS BID ITEM SHALL INCLUDE, BUT NOT LIMITED TO, FURISHING AND PLACING ASPHALT MIX WITH ASPHALT BINDER, AND CONSTRUCTION ZONE PROTECTION. THIS INCLUDES ASPHALT FOR DRIVEWAY REPLACEMENTS.

Rev	Description	Date
	Project Number 25089	5-21-25
	Project Manager	Issued For Bidding:
	Project Manager	Issued For Construction:
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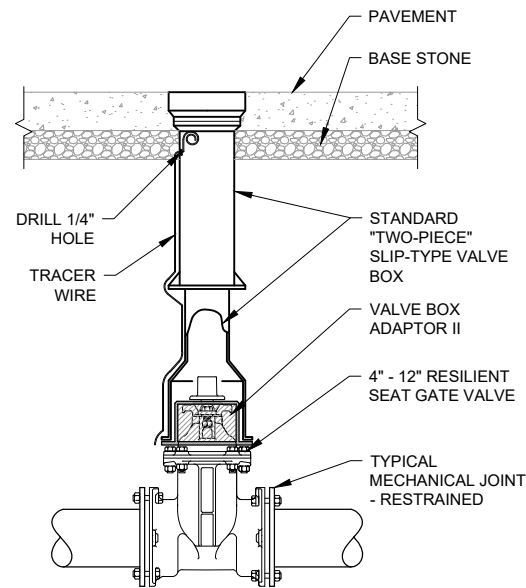
**SECTION**



**PLAN**

**TRACER WIRE ACCESS BOX**

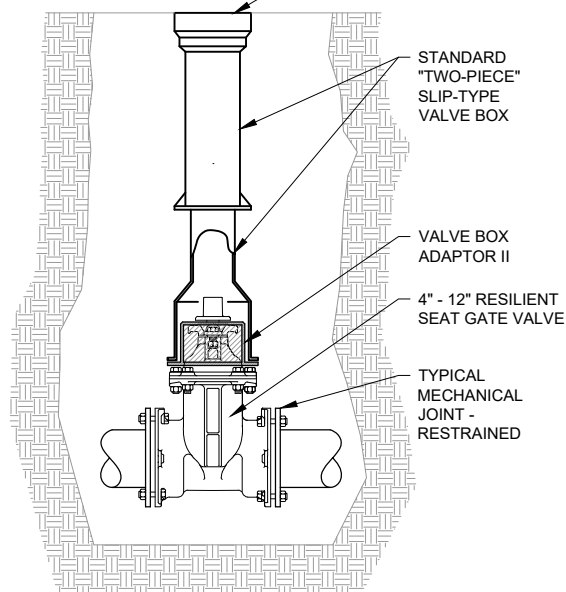
**1** FIRE HYDRANT DETAIL  
C5.01 NOT TO SCALE



**3** GATE VALVE IN PAVEMENT  
C5.01 NOT TO SCALE



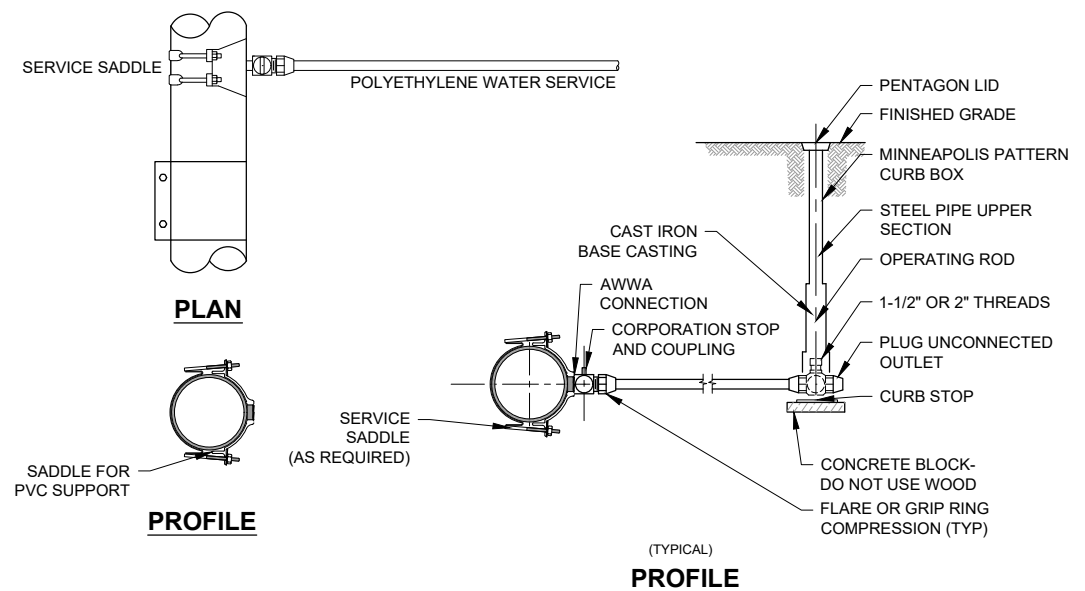
**PLAN**



**13** GATE VALVE WITH BOX  
C5.01 NOT TO SCALE

**WATER MAIN NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS", 8TH EDITION, 2020 EXCEPT AS MODIFIED BY THE SPECIAL PROJECT REQUIREMENTS.
- MJ AND PUSH-ON JOINT GASKETS SHALL BE SBR RUBBER FOR ALL WATER MAIN.
- ALL DUCTILE IRON PIPE, INCLUDING FITTINGS AND VALVES, SHALL BE POLYETHYLENE ENCASED PER AWWA C105.
- THE INSTALLED WATER MAIN SHALL BE DISINFECTED AND TESTED PER SPECIFICATIONS.
- NO INTERMITTENT HIGH SPOTS BETWEEN CONNECTION POINTS SHALL BE CREATED UNLESS AT A FIRE HYDRANT OR NOTED OTHERWISE.
- SEPARATION OF WATER MAINS FROM SANITARY SEWERS AND STORM SEWERS SHALL BE IN ACCORDANCE WITH ILLINOIS STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION IN ILLINOIS, 8TH EDITION, 2020.
- WATER MAIN HORIZONTAL SEPARATION: WATER MAINS SHALL BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION. REFER TO STANDARD DRAWING NO. 18 IN THE ILLINOIS STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION IN ILLINOIS, 8TH ADDITION, 2020.
- WATER MAIN VERTICAL SEPARATION: A WATER MAIN SHALL BE SEPARATED FROM A SEWER SO THAT ITS INVERT IS A MINIMUM OF EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS OVER STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.
- THE LOCATION OF UTILITIES INDICATED ON THE PLAN ARE TAKEN FROM FIELD MEASUREMENTS & EXISTING PUBLIC RECORDS. ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN MAY BE PRESENT. THE UTILITIES PRESENT MAY NOT EXIST AS SHOWN. IT SHALL BE THE DUTY OF ANYONE MAKING USE OF THESE PLANS TO ASCERTAIN THE EXACT LOCATION, SIZE AND ELEVATION OF ALL UTILITIES PRESENT.
- ALL CROSSING OF EXISTING UTILITIES SHALL BE FIELD VERIFIED FOR LOCATION & ELEVATION.
- DEFLECTION OF THE WATER MAIN SHALL NOT EXCEED MANUFACTURER RECOMMENDATIONS FOR PIPE MATERIAL AND JOINTS.
- WHERE FITTINGS ARE NOT SPECIFIED, DEFLECTIONS IN THE WATER MAIN SHALL BE ACHIEVED IN THE PIPE (PVC) AND JOINTS (DIP).
- ALL REMOVE AND REPLACE ITEMS CALLED OUT ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO WATER MAIN CONSTRUCTION UNLESS SPECIFICALLY IDENTIFIED IN THE SPECIAL PROVISIONS.
- MINIMUM BURY DEPTH OF WATER MAIN SHALL BE 5.5'.
- THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE EX UTILITIES AT CROSSING LOCATIONS, INCLUDING ANY UTILITIES THAT MAY NOT BE SHOWN ON THE PLANS. IF THE CONTRACTOR DETERMINES THAT THEY NEED TO REMOVE AND REINSTALL THE EX UTILITIES TO INSTALL THE PROPOSED IMPROVEMENTS, THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE WATER MAIN INSTALLATION.
- THRUST RESTRAINT: THE MAXIMUM WORKING PRESSURE ON PROPOSED WATER MAIN IS 65 PSI. TEST PRESSURE IS TO BE 150 PSI. WORKING PRESSURE AND TEST PRESSURE MEASURED AT HYDRANT 2 ARE 60 PSI AND 150 PSI, RESPECTIVELY. CONTACT ENGINEER FOR TEST PRESSURES AT OTHER LOCATIONS IF NEEDED.
- ALL LEAD SERVICE LINES DISCOVERED DURING WATER UTILITY INSTALLATION SHALL BE REPLACED FROM MAIN TO 4 FEET BEYOND BACK OF CURB. A NEW CURB STOP & BOX SHALL BE INSTALLED. THE CONTRACTOR SHALL SHARE THE LOCATION WITH THE CITY OF ANY LEAD SERVICE LINES THAT ARE DISCOVERED.

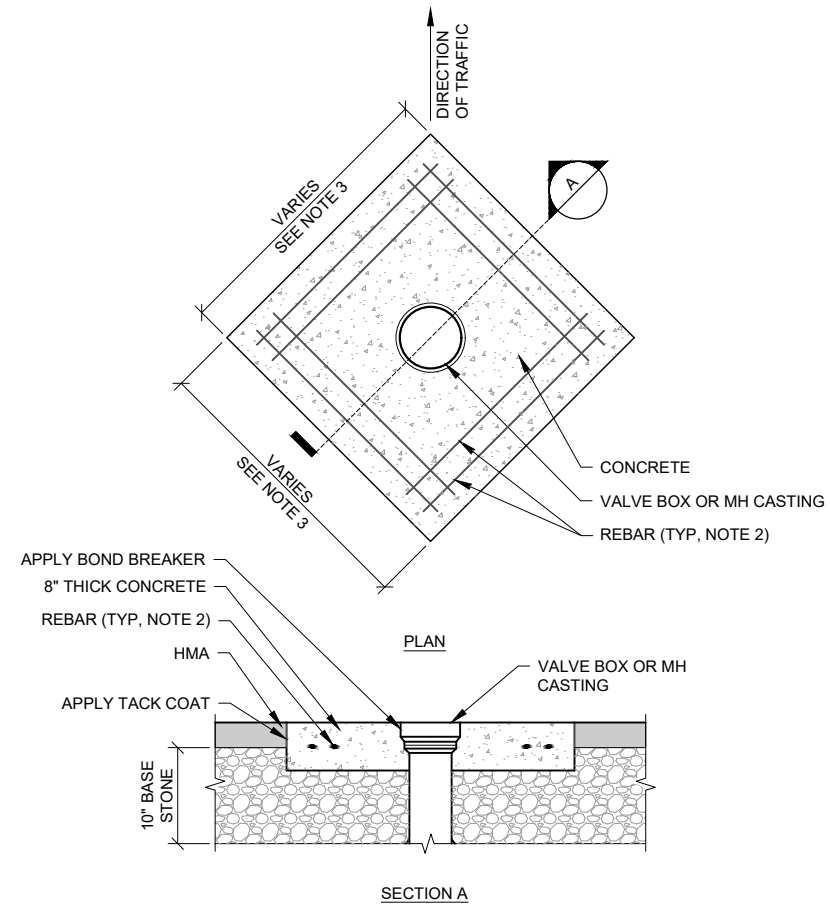


**PLAN**

**PROFILE**

**14** SERVICE LINE INSTALLATION  
C5.01 NOT TO SCALE

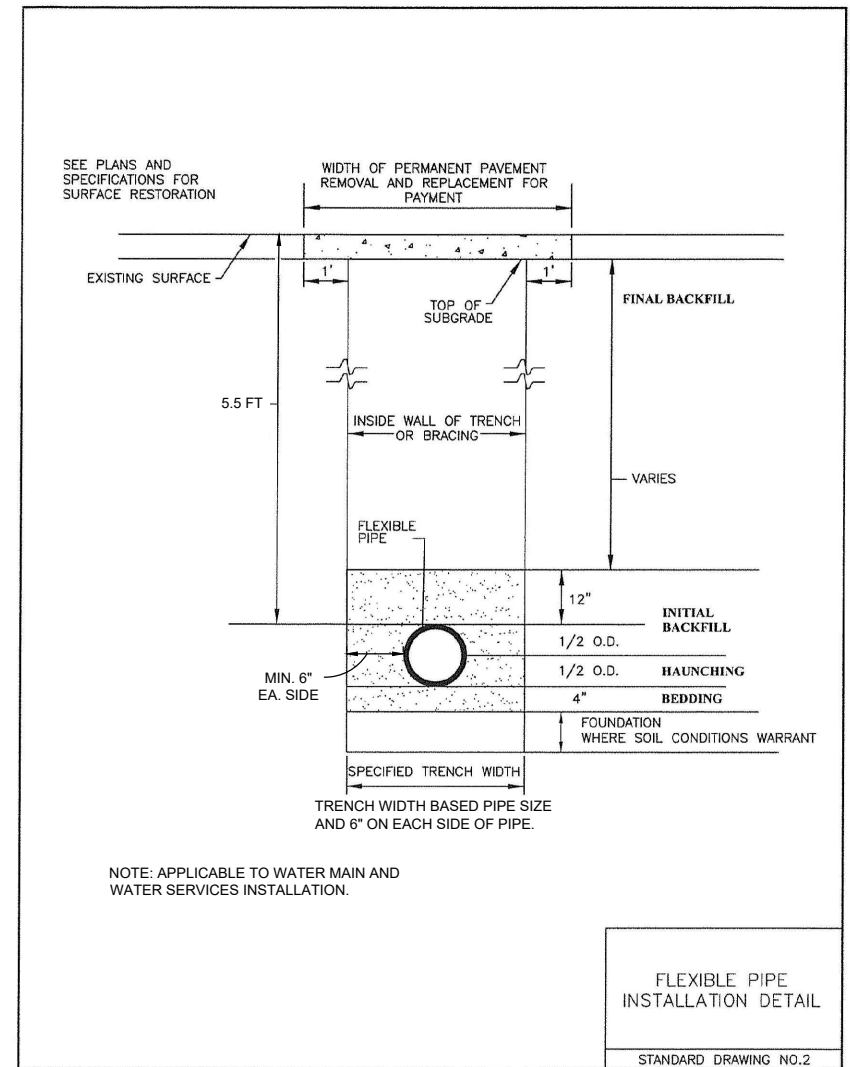
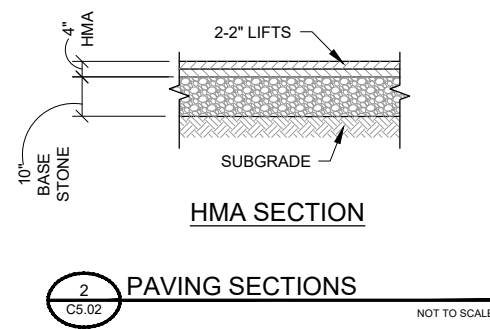
Revisions	Rev	Description	Date
	1	Project Number 25089	5-21-25
	2	Project Manager	5-21-25
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	4	Issued For Construction:	
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NOTES:

1. CONSTRUCT COLLAR WITH CLASS PV CONCRETE PER IL DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. MINIMUM 2 INCHES CLEAR ON REINFORCEMENT. CENTER VALVE BOX WITHIN COLLAR AREA.
2. #4 EPOXY COATED REBAR. PLACE AT MID SLAB. 2'-8" TYP FOR VALVE BOX. 4'-8" TYP FOR MH CASTING.
3. CONCRETE COLLAR FOR VALVE BOX SHALL BE 3'X3'. CONCRETE COLLAR FOR MH CASTING SHALL BE 5'X5'.

**1** PCC VALVE BOX AND MH CASTING COLLAR  
C5.02 NOT TO SCALE

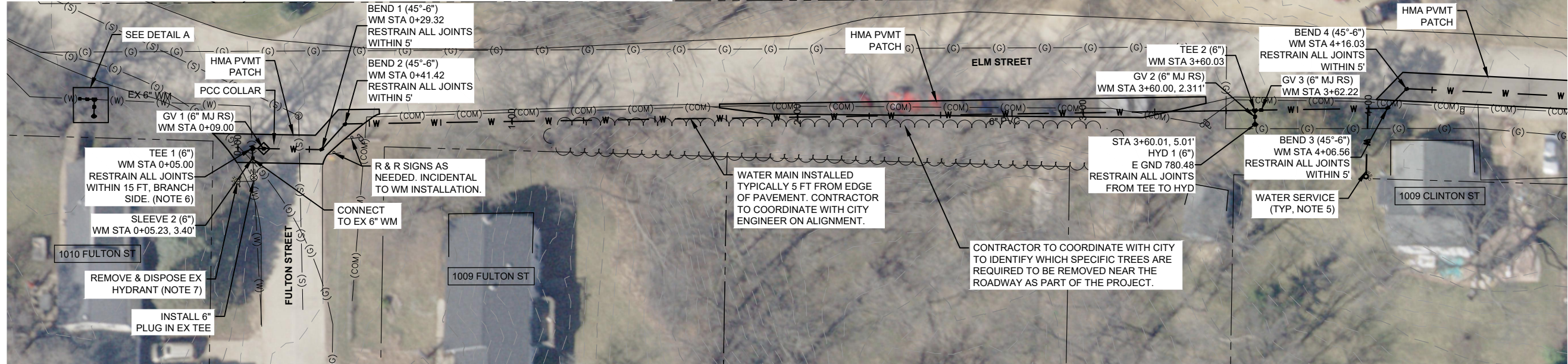
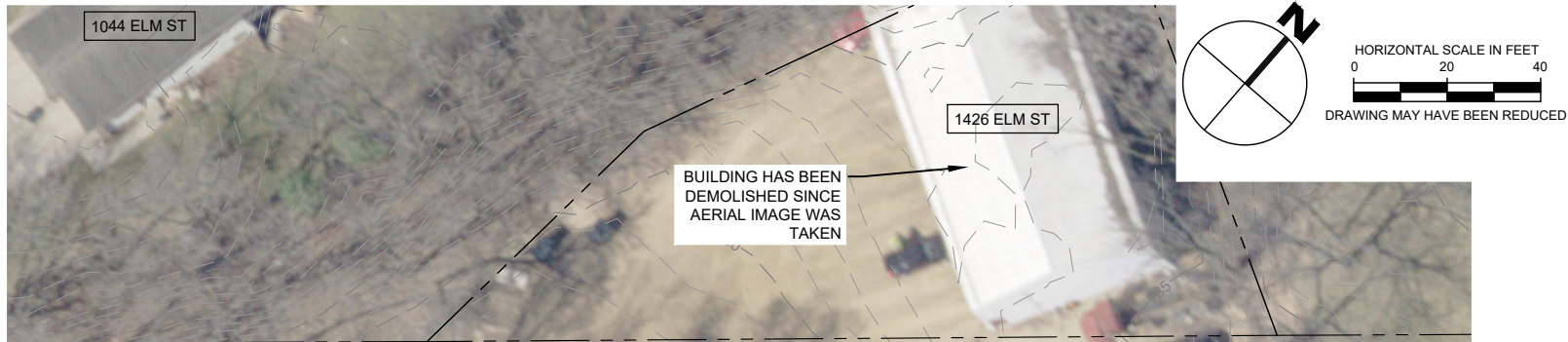


NOTE: APPLICABLE TO WATER MAIN AND WATER SERVICES INSTALLATION.

**FLEXIBLE PIPE INSTALLATION DETAIL**  
STANDARD DRAWING NO.2

Rev	Description	Date
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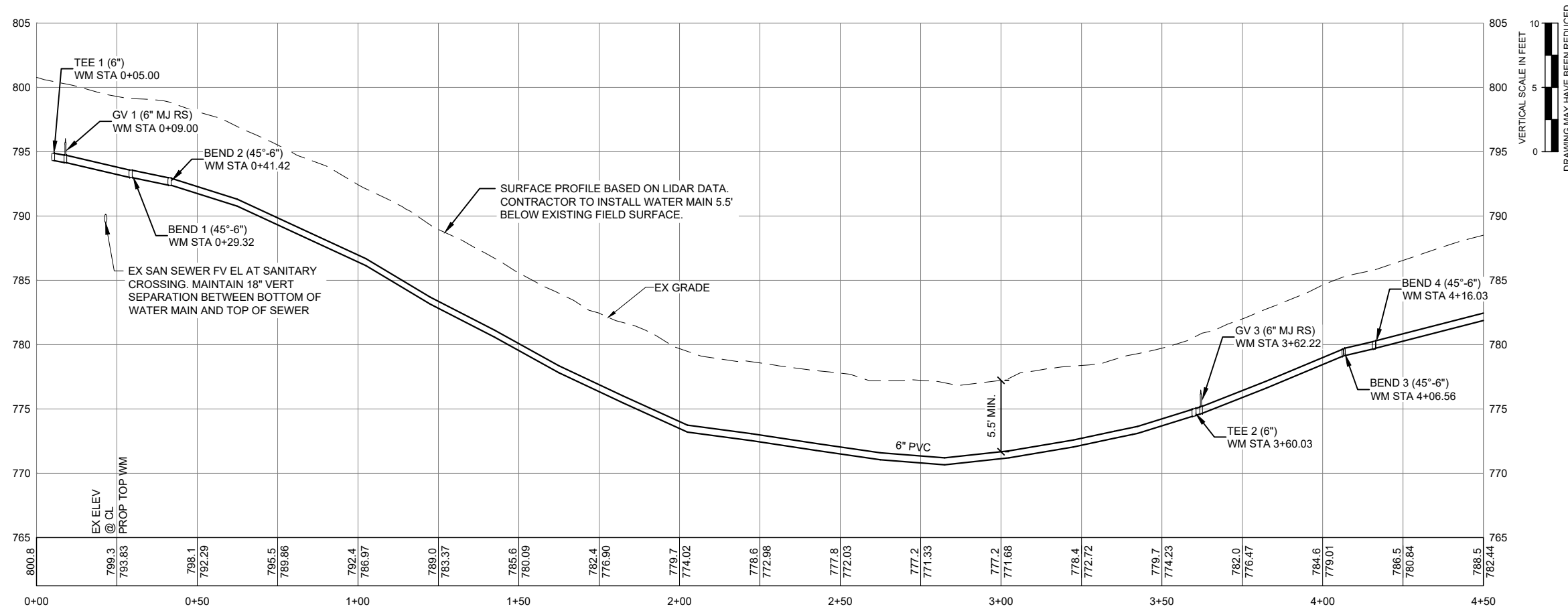
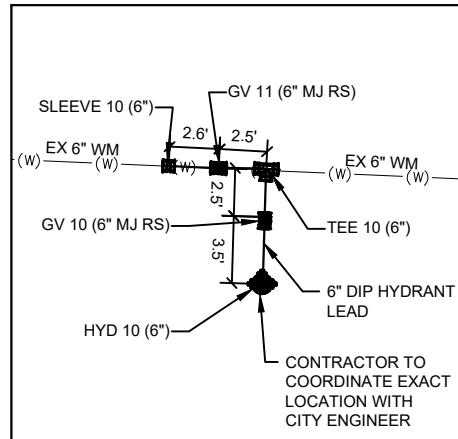
- NOTES:
1. CONTOURS CREATED FROM 2019 USGS LIDAR DATA AND LINWORK CREATED BASED ON AERIAL IMAGERY.
  2. THE LOCATION OF UTILITIES INDICATED ON THE PLAN ARE TAKEN FROM FIELD MEASUREMENTS & EXISTING PUBLIC RECORDS. ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN MAY BE PRESENT. THE UTILITIES PRESENT MAY NOT EXIST AS SHOWN. IT SHALL BE THE DUTY OF ANYONE MAKING USE OF THESE PLANS TO ASCERTAIN THE EXACT LOCATION, SIZE, AND ELEVATION OF ALL UTILITIES PRESENT.
  3. ALL CROSSINGS OF EXISTING UTILITIES SHALL BE FIELD VERIFIED FOR LOCATION AND ELEVATION.
  4. PARCELS SHOWN ARE BASED ON GIS DATA AND ONLY SHOWN FOR APPROXIMATE REFERENCE.
  5. CONTRACTOR SHALL FIELD LOCATE EX WATER SERVICE AND INSTALL NEW SERVICE FROM NEW MAIN TO EXISTING CURB STOP. REPLACE THE CURB STOP AND CONNECT TO EX SERVICE PIPE. CONTRACTOR TO WORK WITH CITY ENGINEER AND PROPERTY OWNER FOR EXACT LOCATION OF SERVICE.
  6. CONTRACTOR TO VERIFY NO JOINTS WITHIN 3 FT OF TEE ON RUN.
  7. CONTRACTOR TO REMOVE AND DISPOSE OF HYDRANT, HYDRANT LEAD, AND HYDRANT VALVE AND INSTALL A PLUG IN THE EX HYDRANT TEE. CONTRACTOR TO BACKFILL EXCAVATION WITH SUITABLE MATERIAL AND RESTORE SURFACING TO EXISTING CONDITIONS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO WATER MAIN INSTALLATION.



Client Name  
**CITY OF GALENA, ILLINOIS**

Project Name  
**ELM STREET WATER MAIN EXTENSION 2025**

Location / Description  
**GALENA, IL**

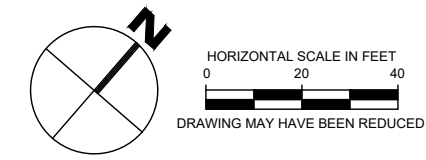
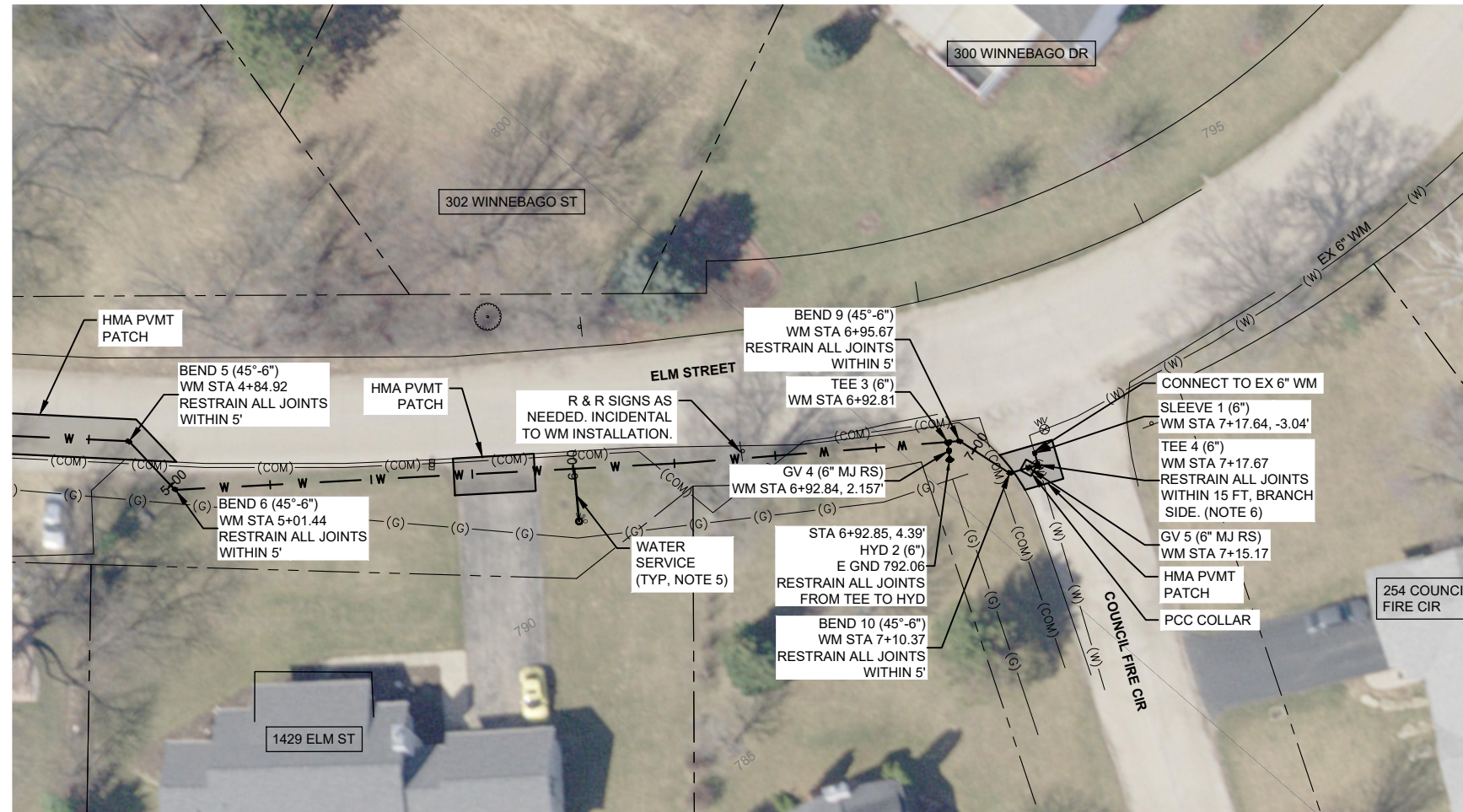


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Sheet Title  
**WATER MAIN PLAN AND PROFILE**

**C5.10**

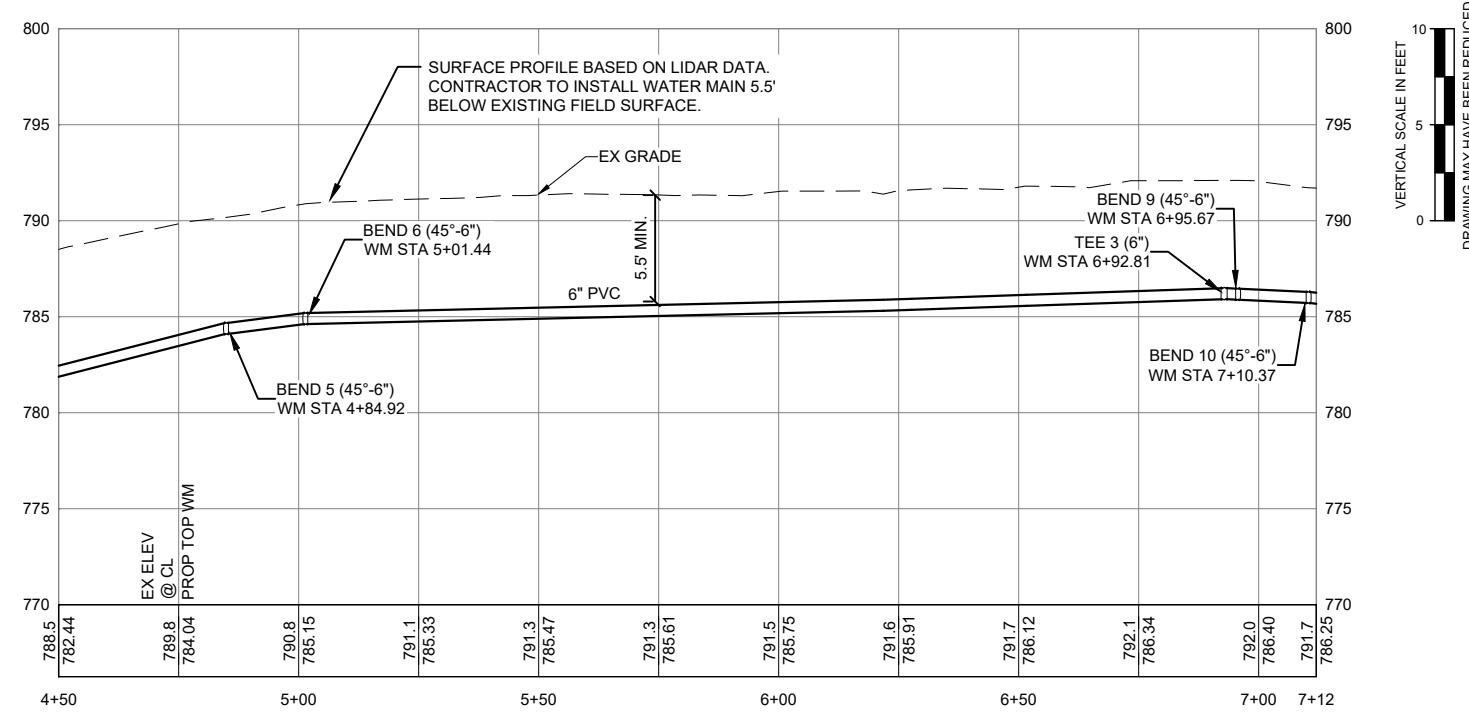
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**WATER MAIN PLAN AND PROFILE**