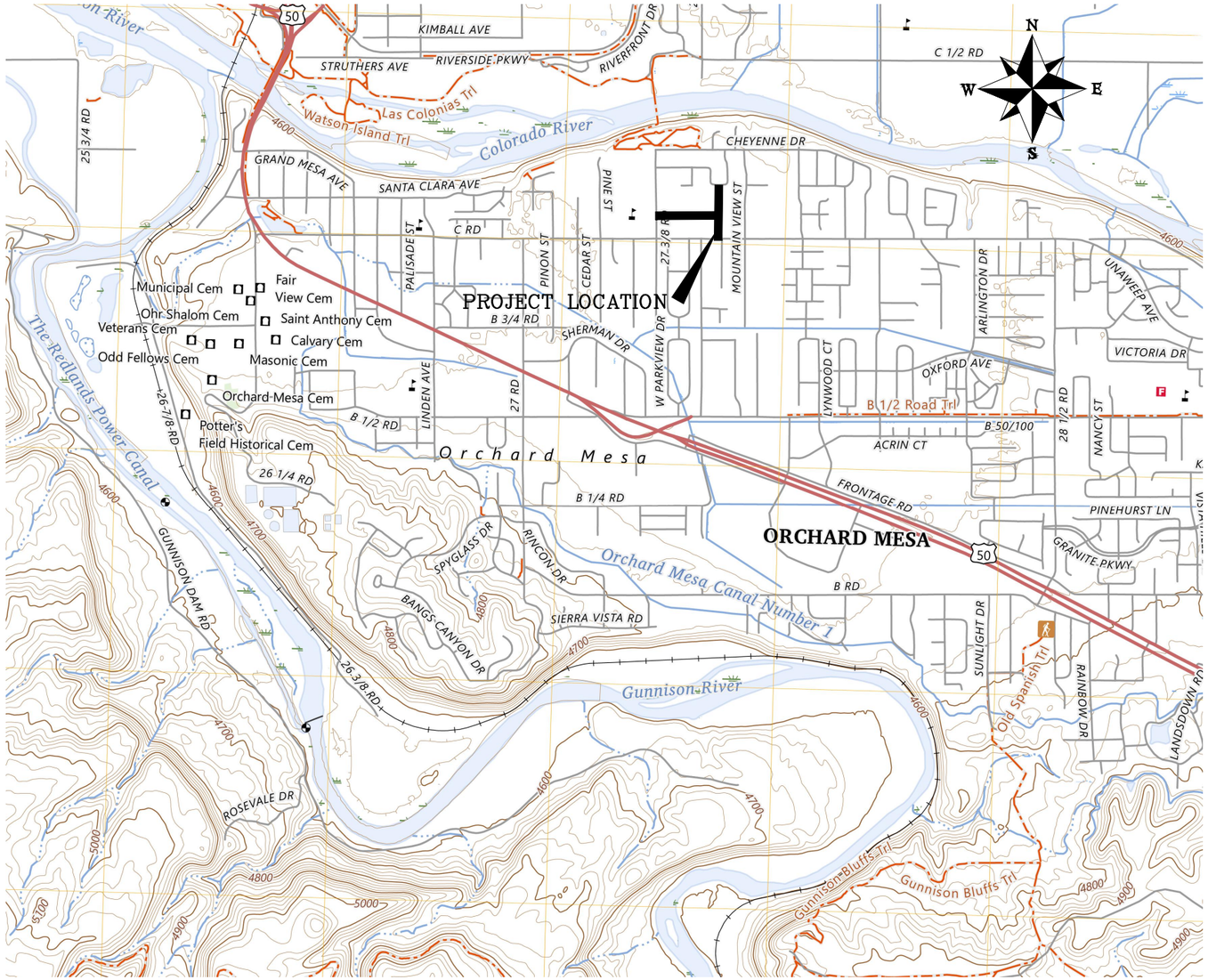
PROJECT NO. M1028

CITY OF GRAND JUNCTION
2026 WATERLINE REPLACEMENT PROJECT
November 5, 2026



VICINITY MAP

0 1000 2000

Sheet Index

1	Cover Sheet
2	Standard Abbreviations, Legend, & Symbols
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14–17	Storm Water Management Plan

NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.

	DESCRIPTION	DATE
REVISION 1	REV 1	DATE
REVISION 2	REV 2	DATE
REVISION 3	REV 3	DATE
REVISION 4	REV 4	DATE

811 Know what's below. Call before you dig.

CITY OF Grand Junction COLORADO

Engineering and Transportation Department

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ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT
AP	ANGLE POINT
ASB	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BOW	BACK OF WALK
BCR	BEGIN CURB RETURN
BOT	BOTTOM
BSWMP	BETTER STORM WATER MANAGEMENT PRACTICES
CH	CHORD
CAP	CORRUGATED ALUMINUM PIPE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CI	CAST IRON
C,G,& SW	CURB, GUTTER & SIDEWALK
℄	CENTER LINE
CL	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FC	FACE OF CURB
FG	FINISHED GRADE
℄	FLOW LINE
FL	FLANGE
FM	FORCE MAIN
FO	FIBER OPTICS
FS	FAR SIDE
FTG	FOOTING
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
IRR	IRRIGATION
L	LENGTH OF ARC
LC	LONG CHORD
LF	LINEAR FEET
LL	LONG ARC
LS	SHORT ARC
LT	LEFT
MB	MAILBOX
MCSM	MESA COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
MW	MILL WRAP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOP	NO ONE PERSON
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RG	RESTRAINED GLANDS
RL	LONG RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAIL ROAD
RS	SHORT RADIUS
RT	RIGHT
S	SLOPE
SAN	SANITARY
SC	SHORT CHORD
SCD	STANDARD CONTRACT DOCUMENTS
SCH	SCHEDULE
SF	SILT FENCE
SL	SECTION LINE
SSRB	STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
SSUU	STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES
STA	STATION
STL	STEEL
STM	STORM
T	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TH	TEST HOLE
TV	TELEVISION
(TYP)	TYPICAL
UU	UNDERGROUND UTILITIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPCC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
△	DELTA ANGLE

LEGEND

BSWMP DRAINAGE BASIN BOUNDARY

BSWMP ANCHORED STRAW BALES — ASB ASB ASB ASB ASB ASB ASB

BSWMP SILT FENCE — SF SF SF SF SF SF SF

BUILDING

CONCRETE CURB AND GUTTER — 2' CURB AND GUTTER

CONCRETE CURB,GUTTER, & SIDEWALK — 7' C, G, & SW

CONCRETE DITCH — CONCRETE

CONCRETE SIDEWALK — 4' SW

CULVERT — 18" RCP

EARTH DITCH — EARTH EARTH EARTH

EDGE OF GRAVEL

EDGE OF PAVEMENT

FENCE (HT & MATL NOTED) — 6' CHAINLINK

GUARD RAIL

HATCHING: INDICATES ASPHALT REMOVAL

HATCHING: INDICATES CONCRETE REMOVAL

HATCHING: INDICATES STAGING AREA — ~STAGING AREA~

LINE (CENTER OF IMPROVEMENTS) — CENTERLINE

LINE (CITY LIMITS) — CITY LIMITS

LINE (CONTROL) — CONTROL LINE

LINE (EASEMENT)

LINE (MONUMENT/SECTION) — MONUMENT/SECTION LINE

LINE (PROPERTY)

LINE (RIGHT OF WAY)

MATCH LINE — MATCH LINE

PIPE (IRRIGATION) — 4" IRR

PIPE (SIPHON) — 4" SIPHON

PROPOSED CONCRETE CURB AND GUTTER

PROPOSED CONCRETE CURB,GUTTER,& SIDEWALK

PROPOSED CONCRETE SIDEWALK

PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN) — 8" PVC SANITARY SEWER

ALL PROPOSED FEATURES NOT SHOWN IN LEGEND WILL BE SHOWN THE SAME AS THEIR EXISTING COUNTERPART, BUT INDICATED BY BOLDER LINETYPE

RAIL ROAD

RETAINING WALL — 1' RETAINING WALL

STRIPING (CONTINUOUS WHITE) — WHITE

STRIPING (DASHED WHITE) — WHITE

STRIPING (CONTINUOUS YELLOW) — YELLOW

STRIPING (DASHED YELLOW) — YELLOW

TOP OF SLOPE

CONTOUR LINES (SHOWN BETWEEN TOP & TOE) — 4580

TOE OF SLOPE — 4570

TRAFFIC DETECTOR LOOP

UTILITY LINE (ABANDON) (THIS CASE A WATER LINE) — W (ABANDONED) 8" W

UTILITY LINE (CABLE TV) — TV TV

UTILITY LINE (ELECTRIC) — E E

UTILITY LINE (FIBER OPTIC) — FO QWEST FO

UTILITY LINE (GAS) — G 1 1/4" MW G

UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER) — HVOHP

UTILITY LINE (OVERHEAD POWER) — OHP

UTILITY LINE (OVERHEAD TELEPHONE) — OHT

UTILITY LINE (SANITARY SEWER) — 8" SAN

UTILITY LINE (SANITARY SEWER FORCE MAIN) — 8" FM

UTILITY LINE (SANITARY SEWER SERVICE) — SS

UTILITY LINE (STORM SEWER) — 8" STM

UTILITY LINE (STORM SEWER, PERFORATED) — 8" PERF

UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION) — 18" COMB

UTILITY LINE (TELEPHONE) — T T

UTILITY LINE (WATER) — W 8" W

SYMBOLS

BENCH MARK — (A)

CATCH BASIN

CLEAN OUT — SSCO

CURB STOP

FIRE HYDRANT

GUY WIRE ANCHOR

HEADGATE

IRRIGATION PUMP

MAILBOX

MANHOLE (ELECTRIC) — (E)

MANHOLE (GAS) — (G)

MANHOLE (SANITARY/STORM)

MANHOLE (TELEPHONE) — (T)

MANHOLE (TV) — (tv)

MANHOLE (WATER) — (W)

METER (GAS) — GM

METER (WATER)

PEDESTAL (TELEPHONE)

PEDESTAL (TV) — TV

PROPERTY PIN — PIN

PULL BOX

REDUCER FITTING

SIGN OR POST (SIGN TYPE NOTED) — STOP

SPRINKLER HEAD

STREET LIGHT

SURVEY MONUMENT (CITY) — CSM

SURVEY MONUMENT (TYPE NOTED) — MCSM

TEST HOLE — TH #1

TRAFFIC PAINT MARKING

TRAFFIC SIGNAL POLE AND MAST ARM

UTILITY POLE

VALVE (GAS) — G

VALVE (IRRIGATION)

VALVE (WATER)

VEGETATION (HEDGE OR BUSH)

VEGETATION (TREE STUMP)

VEGETATION (TREE) (CALIPER SIZE NOTED)

WATER HYDRANT

WEIR

YARD LIGHT

Know what's **below.** **Call** before you dig.

NORTH ARROW:



BAR SCALE:

GRAPHIC SCALE

10 0 20 60

(IN FEET)
1 inch = 20 ft.

DESCRIPTION	DATE
REVISION ⚠ REV 1	DATE
REVISION ⚠ REV 2	DATE
REVISION ⚠ REV 3	DATE
REVISION ⚠ REV 4	DATE

DRAWN BY WC DATE 11/5/2026
DESIGNED BY WC DATE 11/5/2026
CHECKED BY WC DATE 11/5/2026
APPROVED BY WC DATE 11/5/2026

SEE PLAN FOR SCALE INFO

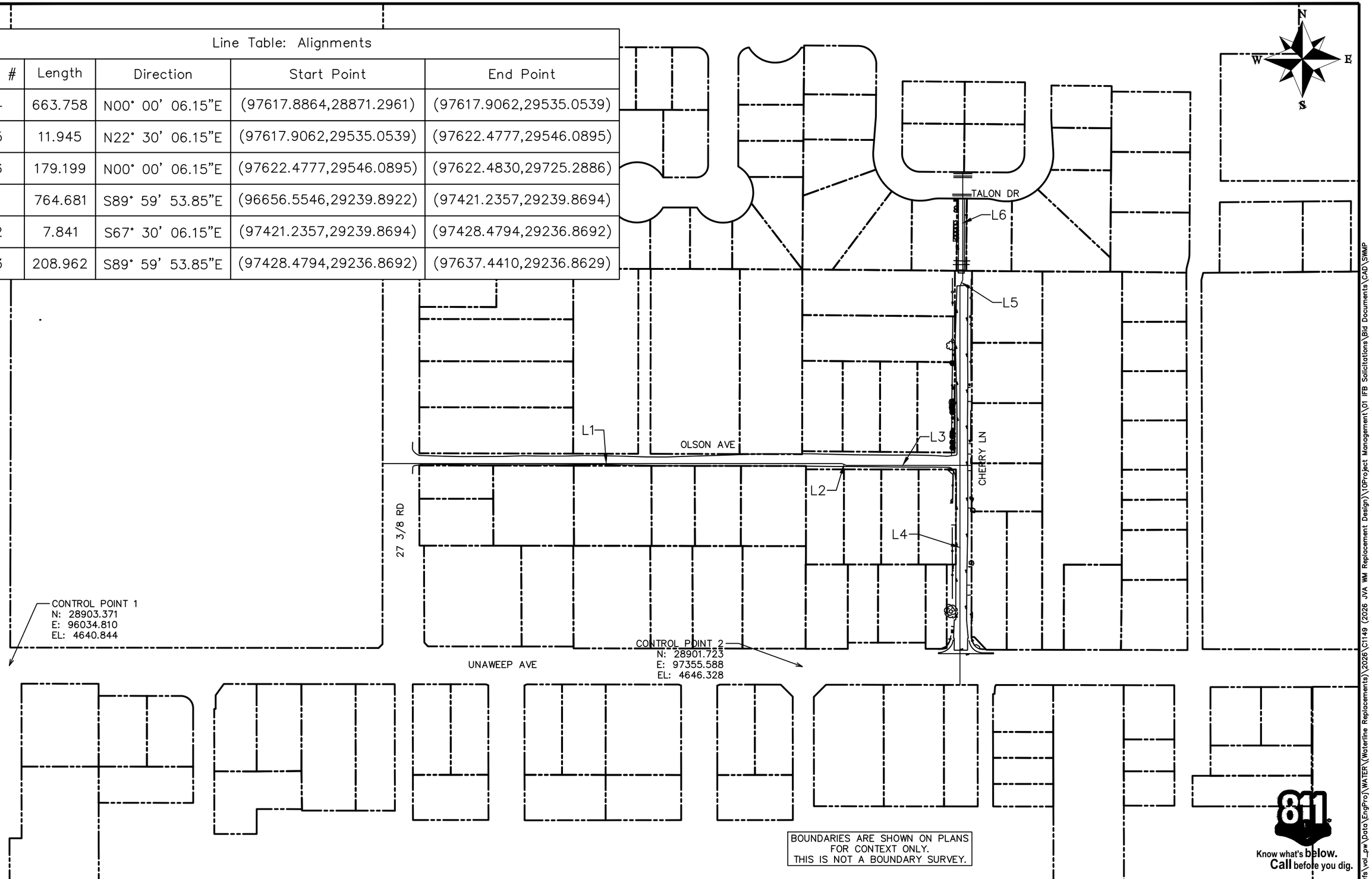
CITY OF Grand Junction COLORADO

ENGINEERING AND TRANSPORTATION DEPARTMENT
PROJECT NO. M1028

2026 WATERLINE REPLACEMENT PROJECT
STANDARD ABBREVIATIONS LEGENDS & SYMBOLS
November 5, 2026

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Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L4	663.758	N00° 00' 06.15"E	(97617.8864,28871.2961)	(97617.9062,29535.0539)
L5	11.945	N22° 30' 06.15"E	(97617.9062,29535.0539)	(97622.4777,29546.0895)
L6	179.199	N00° 00' 06.15"E	(97622.4777,29546.0895)	(97622.4830,29725.2886)
L1	764.681	S89° 59' 53.85"E	(96656.5546,29239.8922)	(97421.2357,29239.8694)
L2	7.841	S67° 30' 06.15"E	(97421.2357,29239.8694)	(97428.4794,29236.8692)
L3	208.962	S89° 59' 53.85"E	(97428.4794,29236.8692)	(97637.4410,29236.8629)



BOUNDARIES ARE SHOWN ON PLANS FOR CONTEXT ONLY.
THIS IS NOT A BOUNDARY SURVEY.

811 Know what's below. Call before you dig.

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

DRAWN BY	WC	DATE 11/5/2026
DESIGNED BY	WC	DATE 11/5/2026
CHECKED BY	WC	DATE 11/5/2026
APPROVED BY	WC	DATE 11/5/2026

SCALE 0 25 50 100

CITY OF Grand Junction COLORADO

ENGINEERING AND TRANSPORTATION DEPARTMENT
PROJECT NO. M1028

2026 WATERLINE REPLACEMENT PROJECT
PROJECT CONTROL MAP
November 5, 2026

3

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S.U.E. GENERAL NOTES:

1 PROJECT DESCRIPTION: THE PROJECT WILL CONSIST OF THE REPLACEMENT OF THE EXISTING WATERLINES IN CHERRY LN AND OLSON AVE, FROM FROM UNAWEEP AVE TO TALON DR, AND FROM 27 3/8 RD TO CHERRY LN.

2 SUBSURFACE UTILITY ENGINEERING (SUE) SCOPE: OBTAIN GENERAL INFORMATION AS TO THE DESCRIPTION, NATURE, AND LOCATION OF SUBSURFACE UTILITIES IN THE AREA OF PROPOSED EXCAVATION AND DEPICT SUBSURFACE UTILITIES WITH RISK-BASED QUALITY LEVELS AS DEFINED IN ASCE 38-22 ON THE PLANS TO INFORM THE CONTRACTOR OF THEIR EXISTENCE.

3 RISK-BASED QUALITY LEVEL DEFINITIONS FOR DEPICTED SUBSURFACE UTILITIES AS DEFINED BY ASCE 38-22:

1 QUALITY LEVEL D (QL-D): A VALUE ASSIGNED TO A SUBSURFACE UTILITY SEGMENT OR UTILITY FEATURE NOT VISIBLE AT THE GROUND SURFACE WHOSE ESTIMATED POSITION IS JUDGED THROUGH UTILITY RECORDS, INFORMATION FROM OTHERS, OR FROM VISUAL CLUES SUCH AS PAVEMENT CUTS, OBVIOUS TRENCHES, OR EXISTENCE OF SERVICE. QL-D UTILITIES ARE NOT REFERENCED TO THE PROJECT SURVEY DATUM.

2 QUALITY LEVEL C (QL-C): A VALUE ASSIGNED TO A SUBSURFACE UTILITY SEGMENT OR UTILITY FEATURE NOT VISIBLE AT THE GROUND SURFACE WHOSE ESTIMATED POSITION IS JUDGED THROUGH CORRELATING UTILITY RECORDS OR SIMILAR EVIDENCE TO UTILITY FEATURES, VISIBLE ABOVEGROUND AND/OR UNDERGROUND. QL-C UTILITIES ARE NOT REFERENCED TO THE SURVEY PROJECT DATUM.

3 QUALITY LEVEL B (QL-B): A VALUE ASSIGNED TO SUBSURFACE UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE WHOSE EXISTENCE AND HORIZONTAL POSITION IS BASED ON GEOPHYSICAL METHODS COMBINED WITH PROFESSIONAL JUDGEMENT AND WHOSE LOCATION IS TIED TO THE PROJECT SURVEY DATUM. THE HORIZONTAL LOCATION OF SUBSURFACE UTILITY FACILITIES MUST BE RESOLVED WITH A TOLERANCE OF 0.2 FEET TO BE QL-B.

4 QUALITY LEVEL A (QL-A): A VALUE ASSIGNED TO THAT PORTION (X-, Y-, AND Z-GEOMETRY) OF A SUBSURFACE UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE THAT IS DIRECTLY EXPOSED AND MEASURED AND WHOSE LOCATION AND DIMENSIONS ARE TIED TO THE PROJECT SURVEY DATUM. THE HORIZONTAL LOCATION OF UTILITY FACILITIES MUST BE RESOLVED WITH A TOLERANCE OF 0.2 FEET AND THE VERTICAL LOCATION OF UTILITY FACILITIES MUST BE RESOLVED WITH A TOLERANCE OF 0.1 FEET TO BE QL-A.

4 SUE LIMITATIONS:

1 THE PURPOSE OF THE SUE IS TO AID IN THE IDENTIFICATION AND RESOLUTION OF UTILITY CONFLICTS. THE SUE IS NOT INTENDED TO CONVEY ALL OF THE INFORMATION REQUIRED TO RELOCATE OR CONSTRUCT THE EXISTING OR PROPOSED UTILITIES. REFER TO THE RELEVANT CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION.

2 PER ASCE 38-22 THE PLANS ARE ITERATIVE DOCUMENTS, CHANGING OVER TIME AS NEW DATA IS COLLECTED AND PROJECT DELIVERY PROGRESSES. RISK-BASED UTILITY QUALITY LEVELS MAY BE DEVELOPED AND DELIVERED IN ANY ORDER, OR CONTEMPORANEOUSLY, AS THE PROJECT PROGRESSES THROUGH PROJECT DELIVERY.

3 ALL DEPICTED SUBSURFACE UTILITIES ARE QL-D UNLESS NOTED. SUBSURFACE UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. MORE THAN ONE OF THE SAME TYPE OF UTILITY FACILITY MAY BE PRESENT AT LOCATIONS INDICATED.

4 SUBSURFACE UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THE PLANS. SEE UTILITY LOCATING EQUIPMENT LIMITATIONS.

5 UTILITY LOCATION AND NOTIFICATION OF THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) MEMBER UTILITIES AND NON-MEMBER UTILITIES PRIOR TO CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITY.

6 RELIANCE UPON SUE DURING BIDDING DOES NOT RELIEVE THE CONTRACTOR FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND PROCEDURES DURING EXCAVATION.

7 UTILITY INVESTIGATIONS PERFORMED BY THE CITY OF GRAND JUNCTION WERE COMPLETED ON 09/04/2026. UTILITY FACILITIES MAY HAVE BEEN CHANGED OR ADDED AFTER THESE DATES.

8 THE SUBSURFACE UTILITY INVESTIGATION WAS LIMITED IN SOME AREAS DUE TO PARKED VEHICLES.

5 UTILITY LOCATING EQUIPMENT LIMITATIONS:

1 ELECTROMAGNETIC LINE LOCATING TECHNIQUES (CONDUCTION): THE SUCCESSFUL DETECTION OF UNDERGROUND UTILITIES IS DEPENDENT PRIMARILY UPON THE COMPOSITION AND CONSTRUCTION OF THE LINE OF INTEREST, AND DEPTH OF BURIAL. THE UTILITIES MUST BE EXPOSED AT THE SURFACE OR IN ACCESSIBLE UTILITY VAULTS CLOSE TO THE SURVEY AREA. UTILITIES THAT MAY NOT BE DETECTABLE USING THESE TECHNIQUES INCLUDE CERTAIN ABANDONED UTILITIES, UTILITIES NOT EXPOSED AT THE GROUND SURFACE, OR THOSE MADE OF NON-ELECTRICALLY CONDUCTIVE MATERIALS SUCH AS PVC, FIBERGLASS, VITRIFIED CLAY, AND METAL PIPES WITH INSULATING JOINTS. PIPES GENERALLY DEEPER THAN ABOUT FIVE FEET MAY NOT BE DETECTED. THE DETECTION OF UNDERGROUND UTILITIES USING THE CONDUCTION MODE IS ALSO DEPENDENT UPON THE PROXIMITY OF THOSE UTILITIES TO BENDS, TEES, CHANGES IN DEPTH, OTHER SUBSURFACE UTILITIES, AND/OR ABOVE GROUND CULTURAL OBJECTS. NEARBY BURIED UTILITIES CAN MASK OR DISTORT SIGNALS ASSOCIATED WITH THE UTILITY IN QUESTION. SHALLOW UTILITIES WILL GENERALLY PRODUCE A STRONGER RESPONSE THAN ADJACENT DEEPER UTILITIES AND WILL GENERALLY MASK EFFECTS FROM THE DEEPER UTILITIES. SUBSURFACE UTILITIES LOCATED BENEATH OR IN CLOSE PROXIMITY TO SURFACE METAL OBJECTS SUCH AS REBAR IN CONCRETE, RAILROAD TRACKS, AND SURFACE PIPELINES ARE DIFFICULT TO ACCURATELY DETECT OR DELINEATE.

2 ELECTROMAGNETIC LINE LOCATING TECHNIQUES (PASSIVE): THE ABILITY TO DETECT PASSIVE SIGNALS ASSOCIATED WITH 60 HZ ELECTRIC LINES IS DEPENDENT UPON CURRENT FLOWING THROUGH THE LINE. ENERGIZED ELECTRIC LINES MAY NOT BE DETECTED IF THE LOAD IS SWITCHED OFF AND ARE STILL DANGEROUS IF CONTACTED DURING EXCAVATION.

3 METAL DETECTION TECHNIQUES (INDUCTION): THE DETECTION OF BURIED METAL UTILITIES, USING THE HANDHELD INDUCTION TECHNIQUE, IS DEPENDENT UPON THE SIZE OF THE UTILITY, ITS DEPTH OF BURIAL, AND ITS PROXIMITY TO ABOVE GROUND METAL OBJECTS. AS THE SIZE OR DIAMETER OF THE BURIED METAL UTILITY DECREASES, THE DEPTH AT WHICH IT CAN BE DETECTED ALSO DECREASES. A RELATIVELY LARGE UTILITY SUCH AS A CORRUGATED STEEL DRAIN LINE CAN BE DETECTED AT DEPTHS OF 3 TO 4 FEET. A SMALLER UTILITY, SUCH AS AN ELECTRIC LINE ASSOCIATED WITH STREET LIGHTS, MAY BE DETECTED ONLY AT DEPTHS OF 1 TO 2 FEET. THE ABILITY TO DETECT A BURIED METAL UTILITY IS ALSO BASED ON ITS PROXIMITY TO ABOVE GROUND METAL OBJECTS OR STRUCTURES. CULTURAL FEATURES SUCH AS CHAIN LINK FENCES, BUILDINGS, DEBRIS, RAILROAD TRACKS, GUARD RAILS, AND OTHER UTILITIES MAY PRODUCE A RESPONSE THAT CAN MASK EFFECTS FROM THE NEARBY BURIED METAL UTILITY.

4 GROUND PENETRATING RADAR (GPR): UTILITIES DETECTABLE WITH GPR TECHNIQUES INCLUDE BOTH METALLIC AND NONMETALLIC PIPES. THE ABILITY TO DETECT PIPES IS DEPENDENT ON SITE SPECIFIC CONDITIONS SUCH AS DEPTH OF BURIAL, DIAMETER OF THE PIPE, CONDITION OF THE PIPE, TYPE OF BACKFILL MATERIAL, AND SURFACE CONDITIONS OVER THE PIPE.

6 EQUIPMENT AND SOFTWARE USED TO COLLECT AND DEPICT SUBSURFACE UTILITY INFORMATION: PIPE AND CABLE LOCATOR, TOTAL STATION, AND AUTODESK CIVIL 3D 2024.

7 SURFACE CONDITIONS: GROUND COVER CONSISTS OF BARE EARTH, VEGETATION, AN ACTIVE DITCH, CONCRETE PAVING, AND ASPHALT PAVING. SNOW AND OTHER SURFACE WATER WERE NOT PRESENT. THE UTILITY INVESTIGATIONS WERE PERFORMED DURING FAIR WEATHER.

8 SOIL GEOPHYSICAL QUALITIES: THE NATIVE SOILS ARE TYPICALLY CLAY LOAM TO VERY COBBLY CLAY LOAM, AND STONY LOAM.

9 SUE INVESTIGATION COMMENTARY:

1 QL-B COULD NOT ACHIEVED ON ALL UTILITIES FOR THE FOLLOWING REASONS:

THE NRCS RATES THE SITE'S SOILS AS LOW PENETRATION FOR GPR. SIGNAL ATTENUATION DUE TO LEVELS OF SALTS, SULFATES, AND CARBONATES IS RATED LOW. SIGNAL ATTENUATION DUE TO CLAY, WATER, AND EXCHANGEABLE IONS IS RATED MODERATE.

2 CONFLICTS WITH FINISHED GRADE HAVE BEEN EVALUATED AND ARE NOT ANTICIPATED.

10 SEE THE STANDARD ABBREVIATIONS, LEGEND, AND SYMBOLS FOR UTILITY LINE TYPE DEPICTIONS, UTILITY APPURTENANCES SYMBOLS, AND ABBREVIATIONS USED FOR THE SUE PLANS.

811 Know what's **below.** **Call** before you dig.

UTILITIES AND AGENCIES

AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
CITY OF GRAND JUNCTION	WILLIAM COMERER	PROJECT ENGINEER	WATER, STORM, & SEWER	244 N 7TH ST.	244 N 7TH ST.	GRAND JCT., CO 81501	(970) 244-1417	
ORCHARD MESA IRRIGATION DISTRICT			IRRIGATION	668 38 RD	668 38 RD	PALISADE, CO 81526	(970) 464-7885	(970) 464-5928
XCEL	SARAH DARRICAU	UNIT MANAGER	ELECTRIC & GAS	2538 BLICHMANN AVE	2538 BLICHMANN AVE	GRAND JCT., CO 81506	(970) 244-2656	(970) 244-2656
CENTURYLINK / LUMEN	CHRIS JOHNSON	ENGINEER	FIBER & TELCO	2524 BLICHMANN AVE	2524 BLICHMANN AVE	GRAND JCT., CO 81504	(970) 244-4311	(970) 240-4349
HIGHLINE / NEXTCITY NETWORKS	NICK JONES	SENIOR PROJECT MANAGER	FIBER	7200 NW 4TH ST [2369]	7200 NW 4TH ST [2369]	PLANTATION, FL 33317	(954) 205-3813	
UNITE PRIVATE NETWORKS / SEGRA			COMMUNICATION	123 N 7TH ST., #100	123 N 7TH ST., #100	GRAND JCT., CO 81501	(866) 813-3608	
CHARTER / SPECTRUM	MARK KOSTELECKY	MANAGER	CABLE TV	2502 FORESIGHT CIRCLE	2502 FORESIGHT CIRCLE	GRAND JCT., CO 81504	(970) 245-8750	(970) 245-6803
CLEARNETWORX, LLC			COMMUNICATION				(970) 249-8848	

DESCRIPTION	DATE
REVISION 1 REV 1	DATE
REVISION 2 REV 2	DATE
REVISION 3 REV 3	DATE
REVISION 4 REV 4	DATE

DRAWN BY WC DATE 11/5/2026
DESIGNED BY WC DATE 11/5/2026
CHECKED BY WC DATE 11/5/2026
APPROVED BY WC DATE 11/5/2026

NO SCALE

CITY OF Grand Junction COLORADO

ENGINEERING AND TRANSPORTATION DEPARTMENT
PROJECT NO. M1028

2026 WATERLINE REPLACEMENT PROJECT
SUBSURFACE UTILITY ENGINEERING NOTES
November 5, 2026

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UTILITY CONFLICT RESOLUTION MATRIX

FACILITY OWNER	ID	SHEET	TYPE	SIZE & MATERIAL	DESCRIPTION	QL	TEST HOLE	ACTION OR RESOLUTION
JOINT FACILITY	C1	6	E, T, FO		DUCT BANK	D		PROTECT IN PLACE
ORCHARD MESA IRRIGATION DISTRICT	C2	6	IRR		IRRIGATION	D		PROTECT IN PLACE
XCEL	C3	6	E		ELECTRIC	D		PROTECT IN PLACE
XCEL	C4	6	G		GAS SERVICE	D		PROTECT IN PLACE
PRIVATE	C5	6	SS		SANITARY SEWER SERVICE	D		PROTECT IN PLACE
PRIVATE	C6	7	SS		SANITARY SEWER SERVICE	D		PROTECT IN PLACE
XCEL	C7	7	G		GAS	D		PROTECT IN PLACE
CITY OF GRAND JUNCTION	C8	7	SS	8" PVC	SANITARY SEWER	D		PROTECT IN PLACE
PRIVATE	C9	7	SS		SANITARY SEWER SERVICE	D		PROTECT IN PLACE
XCEL	C10	8	G		GAS	D		PROTECT IN PLACE
CITY OF GRAND JUNCTION	C11	8	SS	8" PVC	SANITARY SEWER	D		PROTECT IN PLACE
XCEL	C12	8	G		GAS SERVICE	D		PROTECT IN PLACE
PRIVATE	C13	8	SS		SANITARY SEWER SERVICE	D		PROTECT IN PLACE
XCEL	C14	8	G		GAS SERVICE	D		PROTECT IN PLACE
ORCHARD MESA IRRIGATION DISTRICT	C15	9	IRR		IRRIGATION	D		PROTECT IN PLACE
JOINT FACILITY	C16	9	E, T, FO		DUCT BANK	D		PROTECT IN PLACE
CITY OF GRAND JUNCTION	C17	9	SS	8" PVC	SANITARY SEWER	D		PROTECT IN PLACE
XCEL	C18	11	G		GAS SERVICE	D		PROTECT IN PLACE
	C19	11			UNKNOWN	D		PROTECT IN PLACE
XCEL	C20	11	G		GAS SERVICE	D		PROTECT IN PLACE
XCEL	C21	12	G		GAS SERVICE	D		PROTECT IN PLACE
	C22	12			UNKNOWN	D		PROTECT IN PLACE
XCEL	C23	12	G		GAS SERVICE	D		PROTECT IN PLACE
ORCHARD MESA IRRIGATION DISTRICT	C24	12	IRR		IRRIGATION	D		PROTECT IN PLACE
XCEL	C25	12	G		GAS SERVICE	D		PROTECT IN PLACE
XCEL	C26	13	G		GAS SERVICE	D		PROTECT IN PLACE

Know what's **below.** **Call** before you dig.

DESCRIPTION	DATE
REVISION ⚠1 REV_1	– DATE
REVISION ⚠2 REV_2	– DATE
REVISION ⚠3 REV_3	– DATE
REVISION ⚠4 REV_4	– DATE

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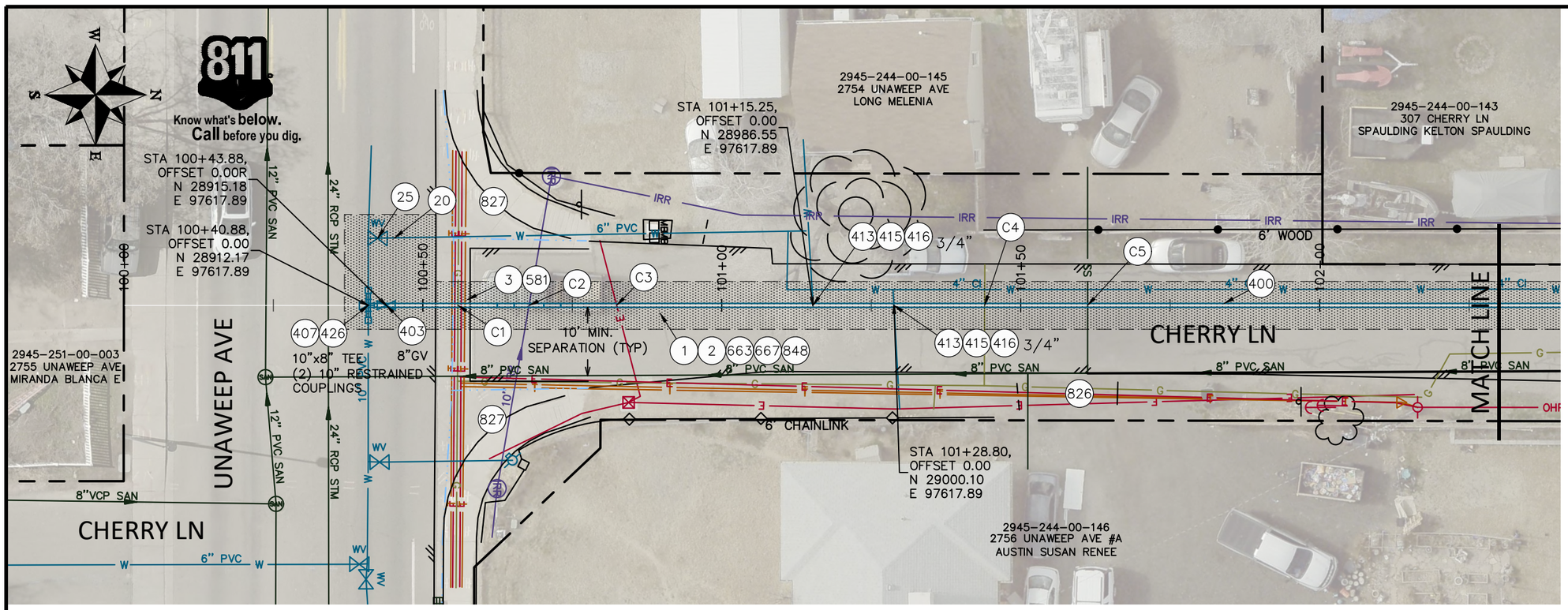
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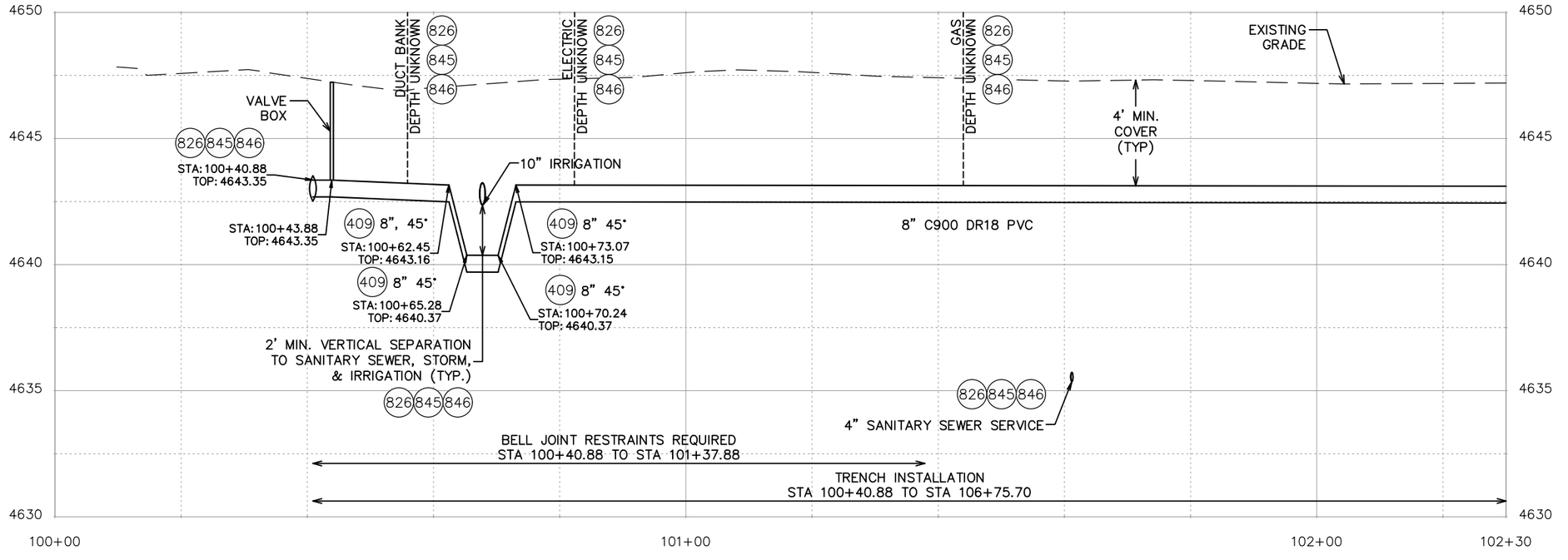
CITY OF Grand Junction COLORADO

ENGINEERING AND TRANSPORTATION DEPARTMENT
PROJECT NO. M1028

2026 WATERLINE REPLACEMENT PROJECT
UTILITY CONFLICT RESOLUTION MATRIX
November 5, 2026

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CONSTRUCTION NOTES

1. 202.09 – REMOVAL OF ASPHALT MAT (PLANING). (FULL DEPTH) (INDICATED BY DOT HATCH PATTERN)
2. 202.09 – REMOVAL OF ASPHALT MAT (PLANING). (2" DEPTH) (INDICATED BY DOT HATCH PATTERN)
3. 202 – REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
20. 202 – ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
25. 202 – ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH TYPE A BEDDING.
400. 102.7/108.2 – WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
403. 102.8b/108.3 – GATE VALVE. (SIZE AS SHOWN)
407. 102.8/108.3 – TEE (SIZE AS SHOWN).
409. 102.8/108.3 – ELBOW (SIZE AND ANGLE AS SHOWN)
413. 102.7c/108.4 – WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
415. 102.8k/108.4 – TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
416. 102.8j/108.4 – CORPORATION STOP (SIZE AS SHOWN ON PLAN)
426. CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
581. 608.06 – CONCRETE DRAINAGE PAN (6' WIDE)
663. 304 – AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
677. 401.08 – HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
826. PROTECT EXISTING UTILITY LINES IN PLACE.
827. PROTECT EXISTING SURFACE IMPROVEMENTS.
845. NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.
846. POTHOLE EXISTING UTILITIES AHEAD OF CONSTRUCTION. TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM TO SEWER PIPES AND 12" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITY LINES.
848. ADDITIONAL INFORMATION REGARDING PAVEMENT PLACEMENT FOR "T-TOP": TOP PAVEMENT LIFT SHALL BE EXTENDED OUTSIDE PREVIOUS LIFT TO MILLED EDGE. (REFER TO PAGE GU-03 OF THE STANDARD CONTRACT DOCUMENTS)

DESCRIPTION	DATE
REVISION 1 REV 1	DATE
REVISION 2 REV 2	DATE
REVISION 3 REV 3	DATE
REVISION 4 REV 4	DATE

DRAWN BY WC DATE 11/5/2026
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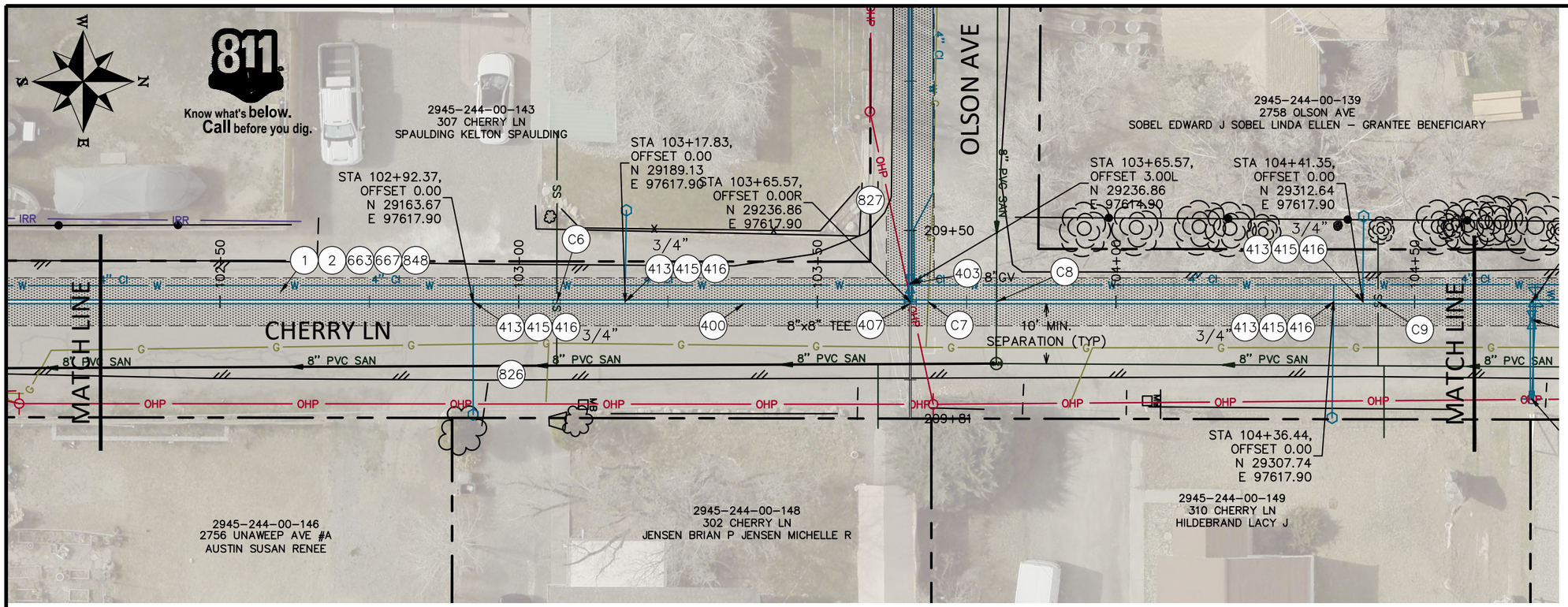
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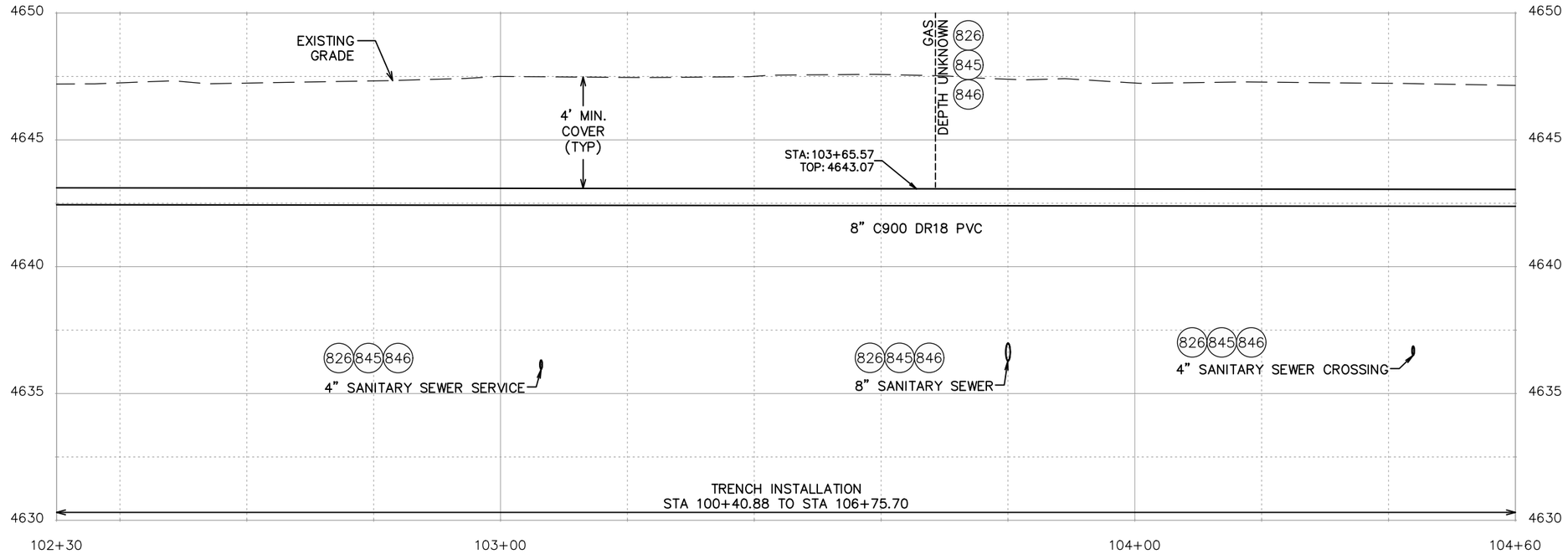
CITY OF Grand Junction COLORADO

ENGINEERING AND TRANSPORTATION DEPARTMENT
PROJECT NO. M1028

2026 WATERLINE REPLACEMENT PROJECT
CHERRY LANE PLAN & PROFILE – 1
November 5, 2026

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CONSTRUCTION NOTES

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403. 102.8b/108.3 – GATE VALVE. (SIZE AS SHOWN)
407. 102.8/108.3 – TEE (SIZE AS SHOWN).
413. 102.7c/108.4 – WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
415. 102.8k/108.4 – TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
416. 102.8j/108.4 – CORPORATION STOP (SIZE AS SHOWN ON PLAN)
663. 304 – AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
677. 401.08 – HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
826. PROTECT EXISTING UTILITY LINES IN PLACE.
827. PROTECT EXISTING SURFACE IMPROVEMENTS.
845. NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.
846. POTHOLE EXISTING UTILITIES AHEAD OF CONSTRUCTION. TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM TO SEWER PIPES AND 12" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITY LINES.
848. ADDITIONAL INFORMATION REGARDING PAVEMENT PLACEMENT FOR "T-TOP": TOP PAVEMENT LIFT SHALL BE EXTENDED OUTSIDE PREVIOUS LIFT TO MILLED EDGE. (REFER TO PAGE GU-03 OF THE STANDARD CONTRACT DOCUMENTS)

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REVISION 2 REV 2	– DATE
REVISION 3 REV 3	– DATE
REVISION 4 REV 4	– DATE

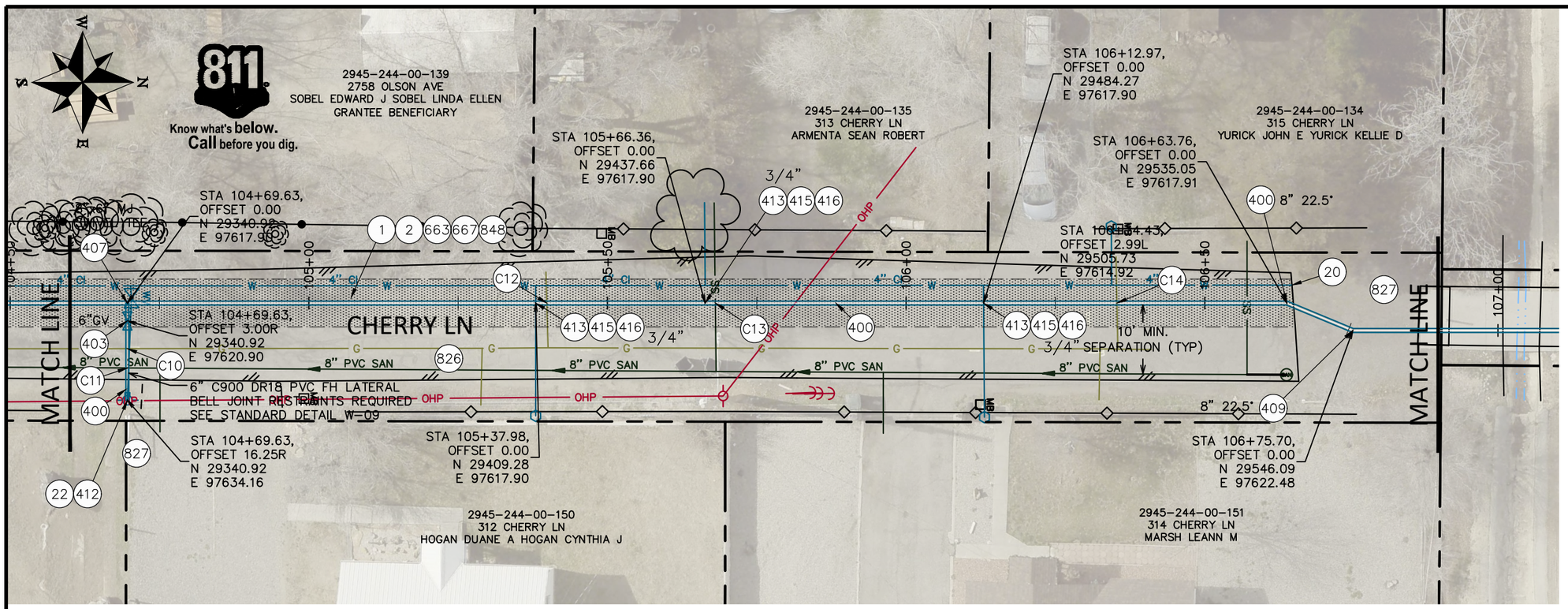
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DESIGNED BY WC	DATE 11/5/2026	
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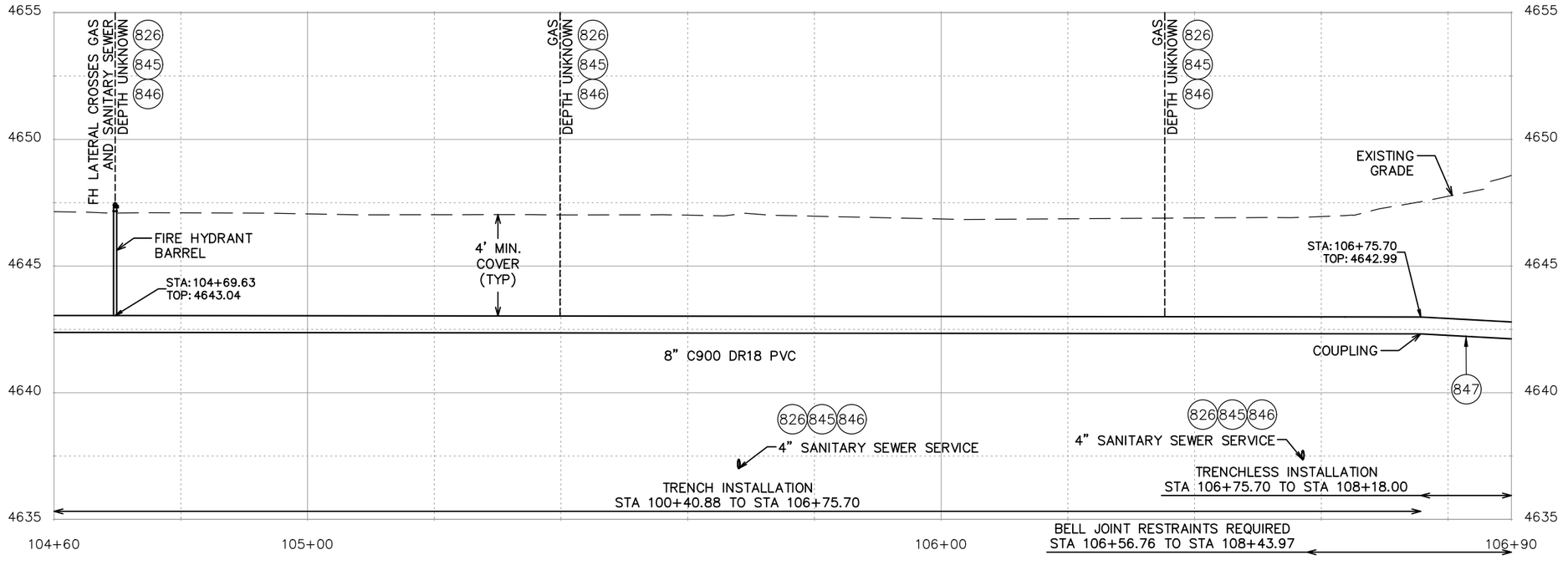
CITY OF Grand Junction COLORADO

ENGINEERING AND TRANSPORTATION DEPARTMENT
PROJECT NO. M1028

2026 WATERLINE REPLACEMENT PROJECT
CHERRY LANE PLAN & PROFILE – 2
November 5, 2026

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CONSTRUCTION NOTES

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20. 202 – ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
22. 202 – REMOVE EXISTING FIRE HYDRANT AND RETURN TO CITY SHOPS.
400. 102.7/108.2 – WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
403. 102.8b/108.3 – GATE VALVE. (SIZE AS SHOWN)
407. 102.8/108.3 – TEE (SIZE AS SHOWN).
409. 102.8/108.3 – ELBOW (SIZE AND ANGLE AS SHOWN)
412. 102.8a/108.3 – FIRE HYDRANT ASSEMBLY
413. 102.7c/108.4 – WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
415. 102.8k/108.4 – TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
416. 102.8j/108.4 – CORPORATION STOP (SIZE AS SHOWN ON PLAN)
663. 304 – AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
677. 401.08 – HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
826. PROTECT EXISTING UTILITY LINES IN PLACE.
827. PROTECT EXISTING SURFACE IMPROVEMENTS.
845. NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.
846. POTHOLE EXISTING UTILITIES AHEAD OF CONSTRUCTION. TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM TO SEWER PIPES AND 12" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITY LINES.
847. THE CONTRACTOR SHALL USE TRENCHLESS METHODS TO INSTALL THE WATERLINE UNDER THE CONCRETE SIDEWALK AS INDICATED ON THE DRAWING.
848. ADDITIONAL INFORMATION REGARDING PAVEMENT PLACEMENT FOR "T-TOP": TOP PAVEMENT LIFT SHALL BE EXTENDED OUTSIDE PREVIOUS LIFT TO MILLED EDGE. (REFER TO PAGE GU-03 OF THE STANDARD CONTRACT DOCUMENTS)

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DESIGNED BY	WC	DATE 11/5/2026
CHECKED BY	WC	DATE 11/5/2026
APPROVED BY	WC	DATE 11/5/2026

SCALES: PLAN & PROFILE HORIZONTAL 0 10 20 VERTICAL 0 2.5 5

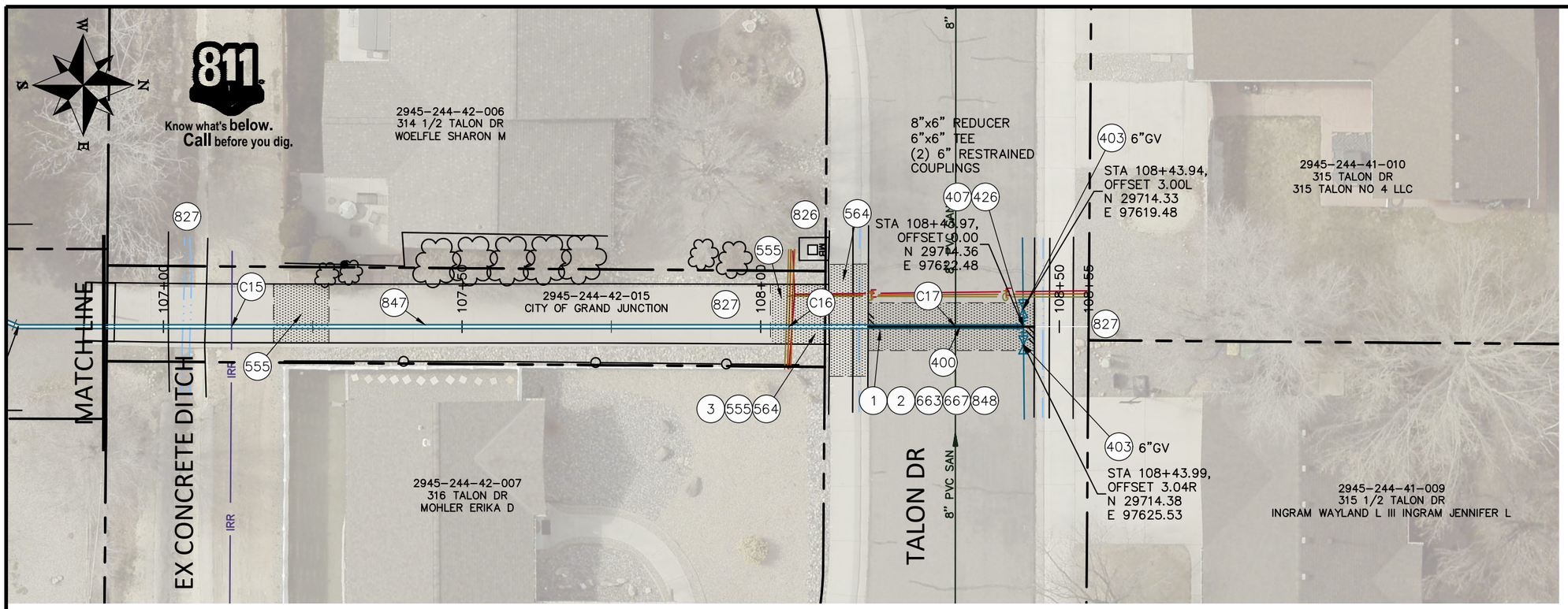
CITY OF Grand Junction COLORADO

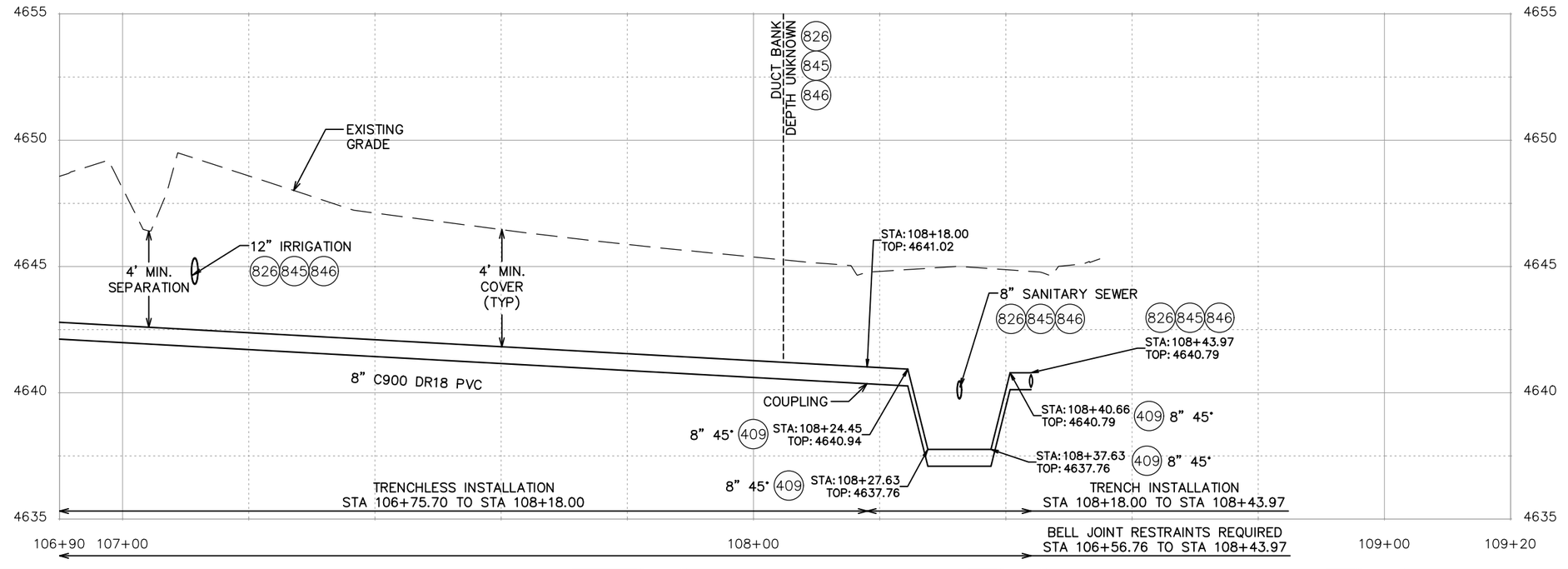
ENGINEERING AND TRANSPORTATION DEPARTMENT
PROJECT NO. M1028

2026 WATERLINE REPLACEMENT PROJECT
CHERRY LANE PLAN & PROFILE – 3
November 5, 2026

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CONSTRUCTION NOTES

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400. 102.7/108.2 – WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
403. 102.8b/108.3 – GATE VALVE. (SIZE AS SHOWN)
407. 102.8/108.3 – TEE (SIZE AS SHOWN).
409. 102.8/108.3 – ELBOW (SIZE AND ANGLE AS SHOWN)
426. CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
555. 608.06 – CONCRETE SIDEWALK (4" THICK)
564. 608.06 – MONOLITHIC DRIVE OVER CURB, GUTTER AND SIDEWALK (7' WIDE)
663. 304 – AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
677. 401.08 – HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
826. PROTECT EXISTING UTILITY LINES IN PLACE.
827. PROTECT EXISTING SURFACE IMPROVEMENTS.
845. NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.
846. POTHOLE EXISTING UTILITIES AHEAD OF CONSTRUCTION. TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM TO SEWER PIPES AND 12" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITY LINES.
847. THE CONTRACTOR SHALL USE TRENCHLESS METHODS TO INSTALL THE WATERLINE UNDER THE CONCRETE SIDEWALK AS INDICATED ON THE DRAWING.
848. ADDITIONAL INFORMATION REGARDING PAVEMENT PLACEMENT FOR "T-TOP": TOP PAVEMENT LIFT SHALL BE EXTENDED OUTSIDE PREVIOUS LIFT TO MILLED EDGE. (REFER TO PAGE GU-03 OF THE STANDARD CONTRACT DOCUMENTS)

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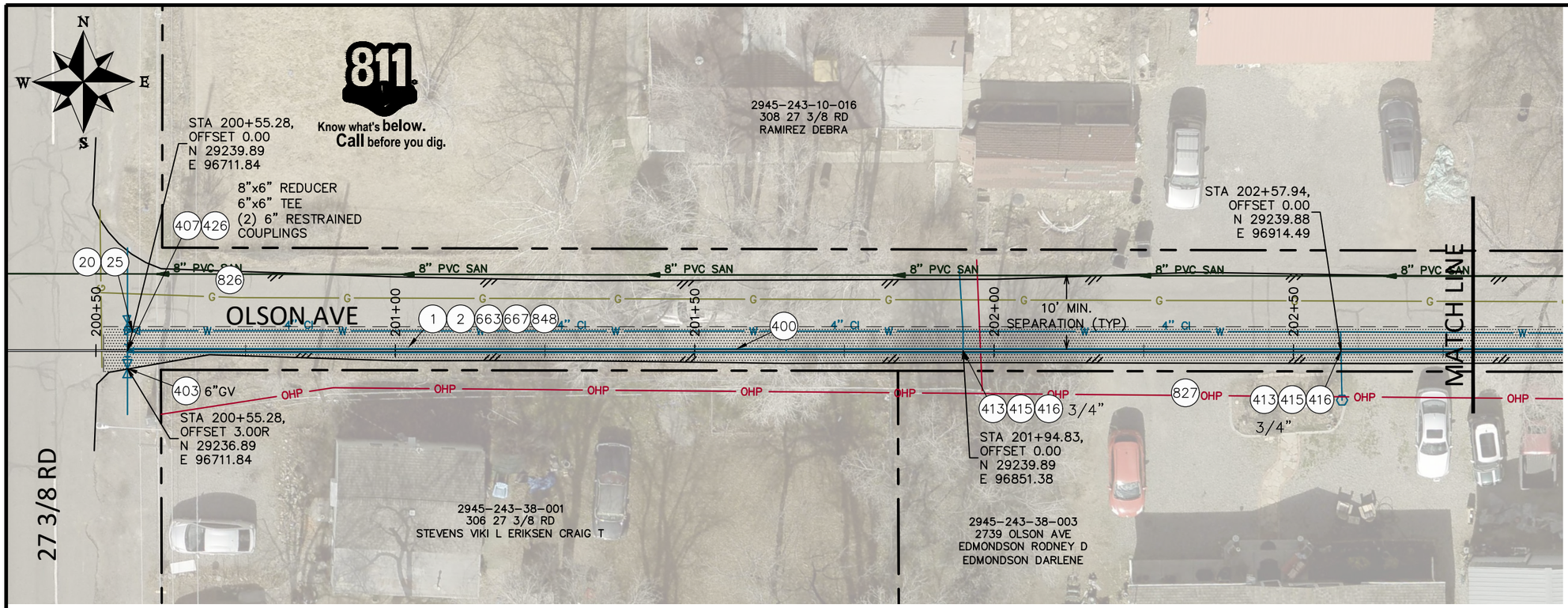
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VERTICAL 0 2.5 5

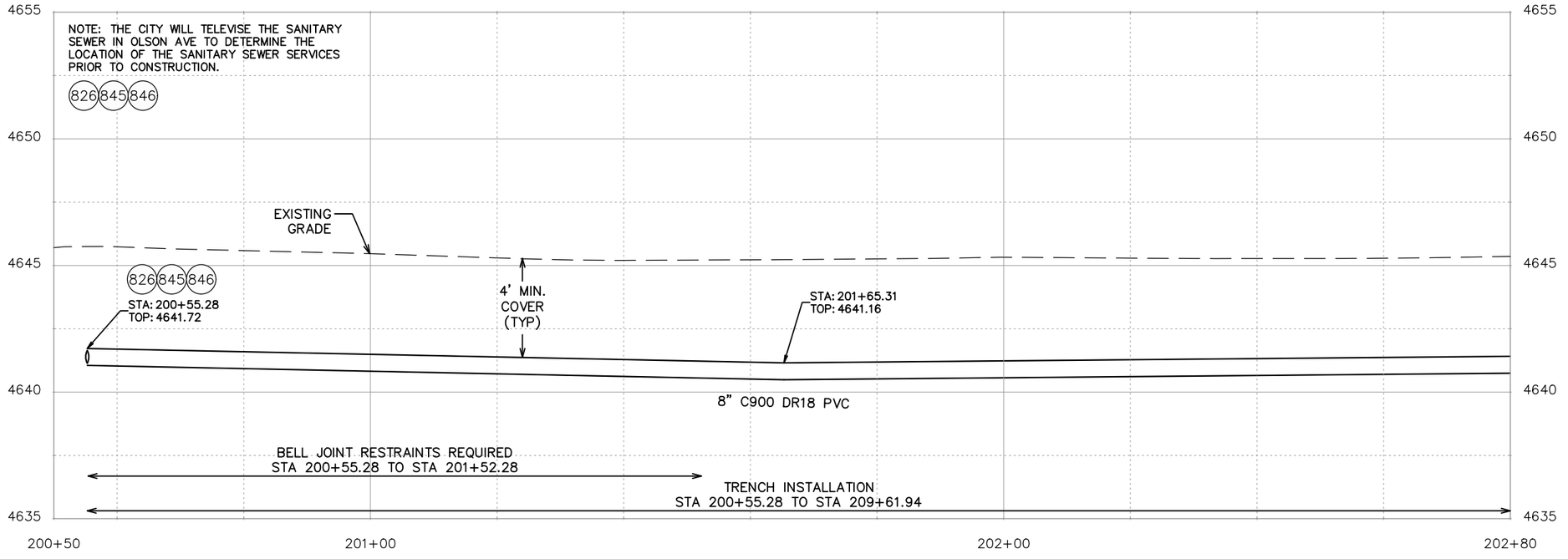
CITY OF Grand Junction COLORADO

ENGINEERING AND TRANSPORTATION DEPARTMENT
PROJECT NO. M1028

2026 WATERLINE REPLACEMENT PROJECT
CHERRY LANE PLAN & PROFILE – 4
November 5, 2026

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CONSTRUCTION NOTES

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20. 202 – ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
25. 202 – ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH TYPE A BEDDING.
400. 102.7/108.2 – WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
403. 102.8b/108.3 – GATE VALVE. (SIZE AS SHOWN)
407. 102.8/108.3 – TEE (SIZE AS SHOWN).
413. 102.7c/108.4 – WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
415. 102.8k/108.4 – TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
416. 102.8j/108.4 – CORPORATION STOP (SIZE AS SHOWN ON PLAN)
426. CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
663. 304 – AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
677. 401.08 – HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
826. PROTECT EXISTING UTILITY LINES IN PLACE.
827. PROTECT EXISTING SURFACE IMPROVEMENTS.
845. NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.
846. POTHOLE EXISTING UTILITIES AHEAD OF CONSTRUCTION. TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM TO SEWER PIPES AND 12" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITY LINES.
848. ADDITIONAL INFORMATION REGARDING PAVEMENT PLACEMENT FOR "T-TOP": TOP PAVEMENT LIFT SHALL BE EXTENDED OUTSIDE PREVIOUS LIFT TO MILLED EDGE. (REFER TO PAGE GU-03 OF THE STANDARD CONTRACT DOCUMENTS)

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REVISION 4 REV 4	DATE

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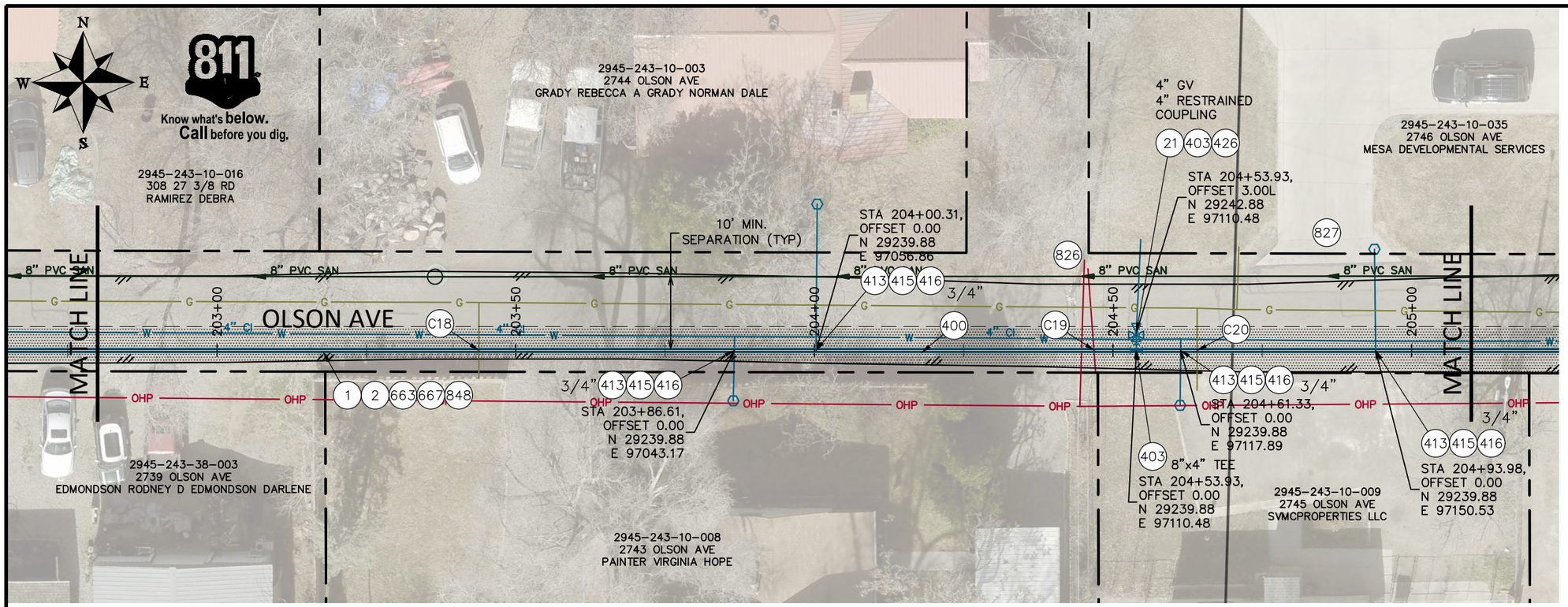
CITY OF Grand Junction COLORADO

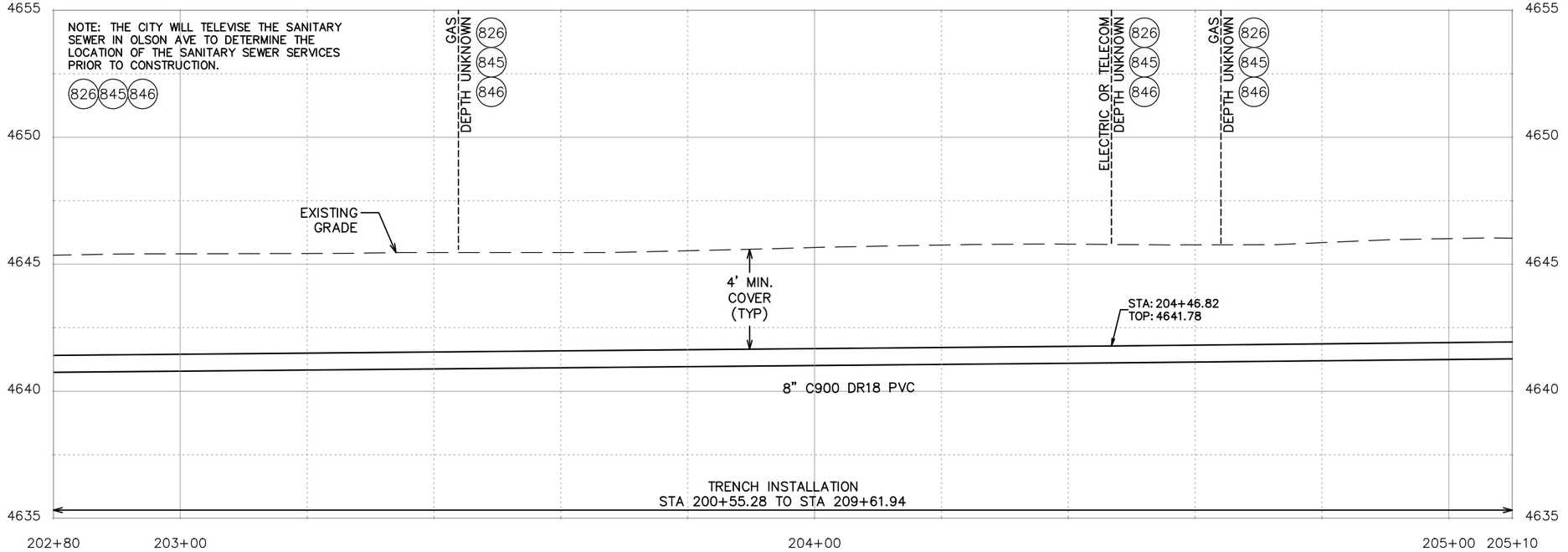
ENGINEERING AND TRANSPORTATION DEPARTMENT
PROJECT NO. M1028

2026 WATERLINE REPLACEMENT PROJECT
OLSON AVE PLAN & PROFILE – 1
November 5, 2026

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CONSTRUCTION NOTES

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2. 202.09 – REMOVAL OF ASPHALT MAT (PLANING). (2" DEPTH) (INDICATED BY DOT HATCH PATTERN)
21. 202 – REMOVE EXISTING WATER VALVE.
400. 102.7/108.2 – WATER MAIN PIPE (C–900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
403. 102.8b/108.3 – GATE VALVE. (SIZE AS SHOWN)
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413. 102.7c/108.4 – WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
415. 102.8k/108.4 – TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
416. 102.8j/108.4 – CORPORATION STOP (SIZE AS SHOWN ON PLAN)
426. CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
663. 304 – AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
677. 401.08 – HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64–22) (TWO 2" LIFTS)
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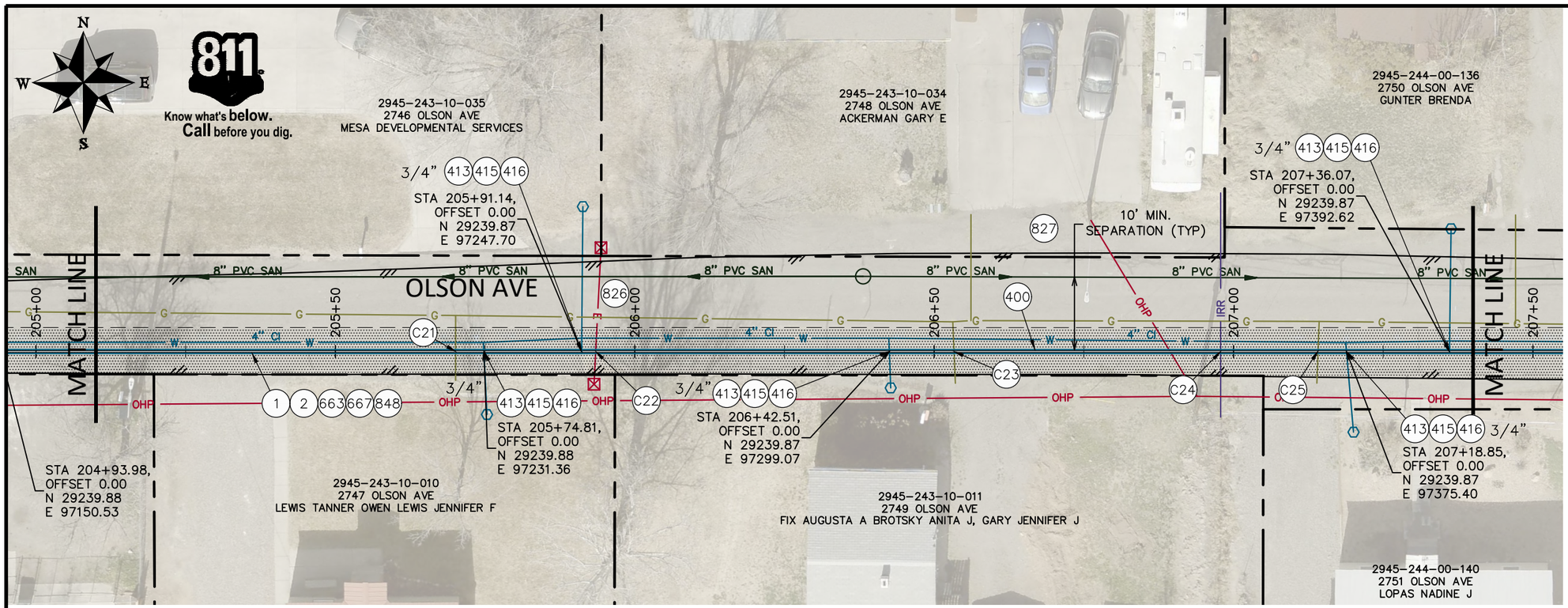
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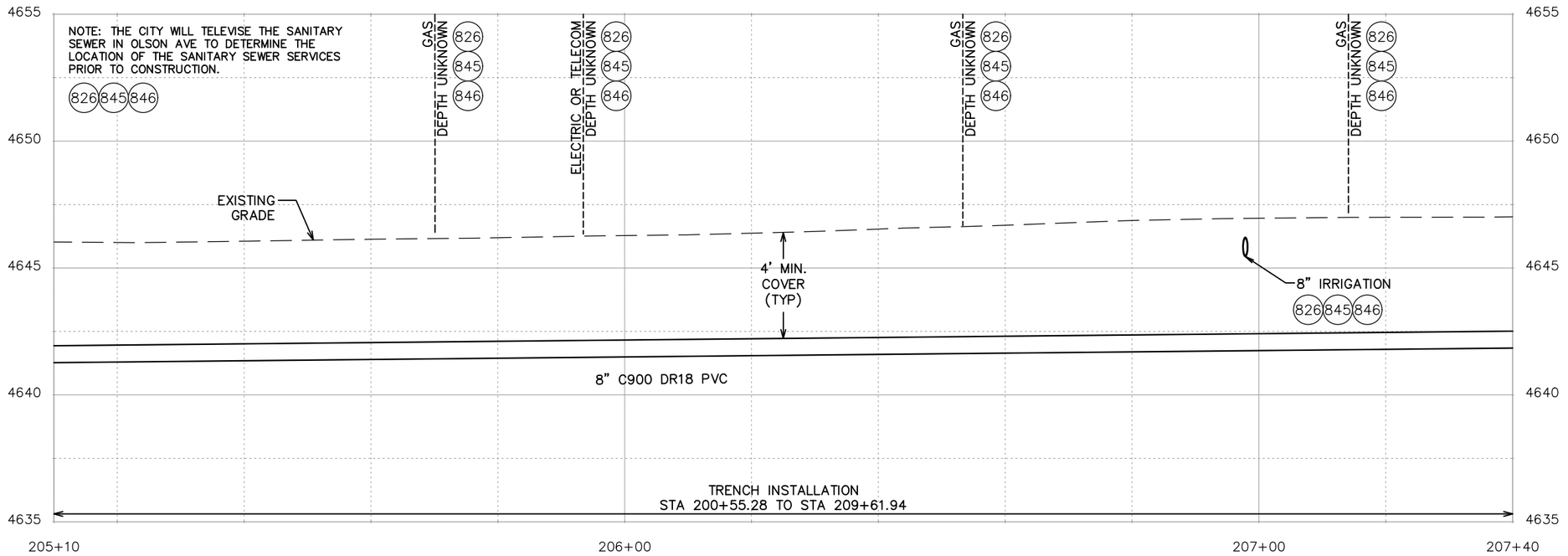
CITY OF Grand Junction COLORADO

ENGINEERING AND TRANSPORTATION DEPARTMENT
PROJECT NO. M1028

2026 WATERLINE REPLACEMENT PROJECT
OLSON AVE PLAN & PROFILE – 2
November 5, 2026

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CONSTRUCTION NOTES

1. 202.09 – REMOVAL OF ASPHALT MAT (PLANING). (FULL DEPTH) (INDICATED BY DOT HATCH PATTERN)
2. 202.09 – REMOVAL OF ASPHALT MAT (PLANING). (2" DEPTH) (INDICATED BY DOT HATCH PATTERN)
400. 102.7/108.2 – WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
413. 102.7c/108.4 – WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
415. 102.8k/108.4 – TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
416. 102.8j/108.4 – CORPORATION STOP (SIZE AS SHOWN ON PLAN)
663. 304 – AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
677. 401.08 – HOT BITUMINOUS PAVEMENT (4" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 2" LIFTS)
826. PROTECT EXISTING UTILITY LINES IN PLACE.
827. PROTECT EXISTING SURFACE IMPROVEMENTS.
845. NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.
846. POTHOLE EXISTING UTILITIES AHEAD OF CONSTRUCTION. TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 24" CLEARANCE MINIMUM TO SEWER PIPES AND 12" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITY LINES.
848. ADDITIONAL INFORMATION REGARDING PAVEMENT PLACEMENT FOR "T-TOP": TOP PAVEMENT LIFT SHALL BE EXTENDED OUTSIDE PREVIOUS LIFT TO MILLED EDGE. (REFER TO PAGE GU-03 OF THE STANDARD CONTRACT DOCUMENTS)

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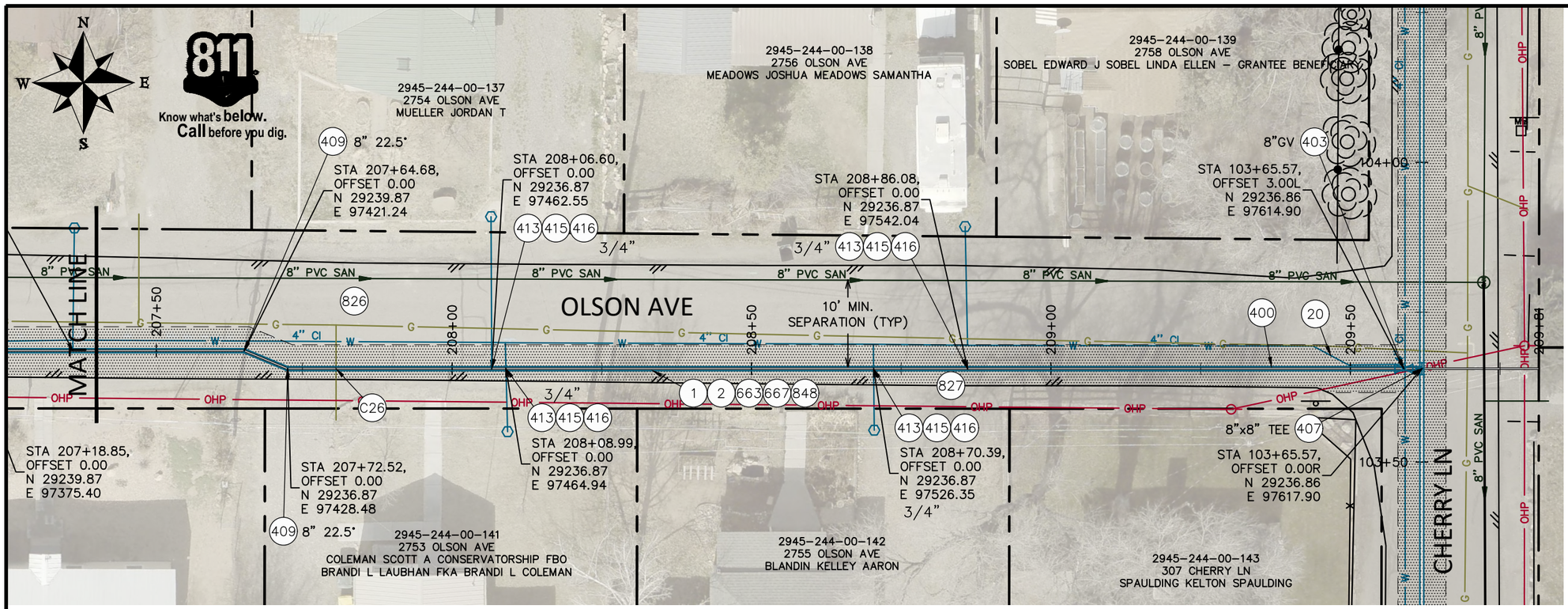
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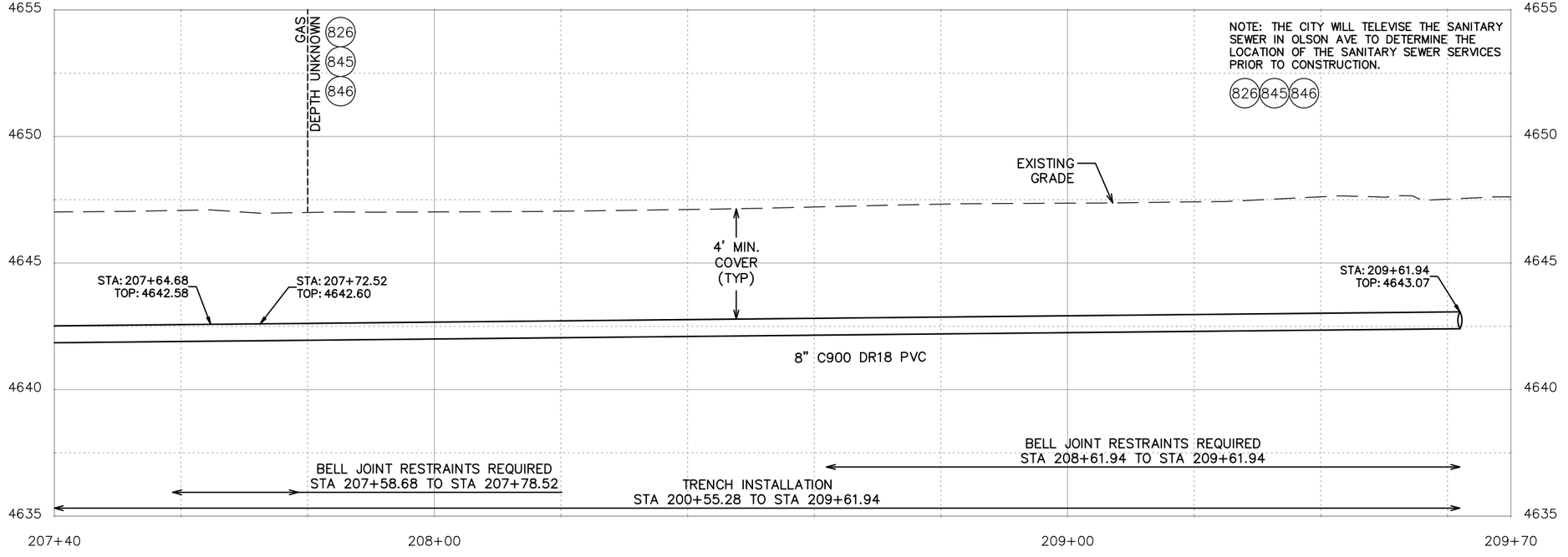
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ENGINEERING AND TRANSPORTATION DEPARTMENT
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2026 WATERLINE REPLACEMENT PROJECT
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403. 102.8b/108.3 – GATE VALVE. (SIZE AS SHOWN)
407. 102.8/108.3 – TEE (SIZE AS SHOWN).
409. 102.8/108.3 – ELBOW (SIZE AND ANGLE AS SHOWN)
413. 102.7c/108.4 – WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
415. 102.8k/108.4 – TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
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STORM WATER MANAGEMENT PLAN (SWMP)

1. SITE DESCRIPTION

THE CONTRACTOR SHALL COMPLY WITH ALL CITY OF GRAND JUNCTION CONTRACTUAL REQUIREMENTS AND ALL REQUIREMENTS ASSOCIATED WITH THE SWMP ON THIS PROJECT. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL UPDATE THE SWMP TO REFLECT CURRENT PROJECT SITE CONDITIONS.

A. PROJECT SITE LOCATION:
LOCATION OR ADDRESS OF CONSTRUCTION OFFICE: N/A

B. PROJECT SITE DESCRIPTION:
THE SITE EXTENDS FROM UNAWEEP AVE NORTH TO TALON DR, IN CHERRY LN AND FROM 28 3/8 RD EAST TO CHERRY LN, IN OLSON AVE. THE EXISTING TREES, SHRUBS, LANDSCAPING, PAVING, AND UTILITIES WILL BE PROTECTED IN PLACE.

C. PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:
INITIAL EROSION CONTROL MEASURES WILL BE INSTALLED. THE REMOVALS WILL OCCUR. INTERIM CONTROL MEASURES WILL BE INSTALLED. THE PROPOSED WATER LINE WILL BE INSTALLED IN A COMBINATION OF OPEN TRENCHES AND HORIZONTAL DIRECTIONAL DRILLING AS INDICATED ON THE PLAN SHEETS. EXISTING GROUNDCOVER WILL BE RESET OR REPLACED AND FINAL STABILIZATION WILL BE ACHIEVED.

D. ACRES OF DISTURBANCE:
1. TOTAL AREA OF CONSTRUCTION SITE (LOC): 0.84 ACRES
2. TOTAL AREA OF PROPOSED DISTURBANCE (LDA): 0.31 ACRES.
3. TOTAL AREA OF IMPERVIOUS SURFACE PRE-PROJECT AND POST-PROJECT WILL REMAIN EQUAL.
4. TOTAL AREA OF SEEDING: N/A

E. EXISTING SOIL DATA:
THE DOMINANT SOIL AT THE SITE IS THE GYPROCKMESA CLAY LOAM. THE SOIL TEXTURE IS CLAY LOAM UNDERLAIN BY COBBLY AND VERY COBBLY CLAY LOAM, WHICH IS UNDERLAIN BY STONY LOAM. THE POTENTIAL FOR EROSION IS RATED AS SLIGHT BY THE NRCS.
DATA SOURCE(S): NRCS WEB SOIL SURVEY

F. EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER:
PRE-CONSTRUCTION
DATE OF SURVEY: N/A – EXISTING PAVEMENT OR LANDSCAPING.
PERCENT EXISTING VEGETATIVE COVER: N/A
DESCRIPTION OF EXISTING VEGETATION: N/A
METHOD FOR DETERMINING PERCENT VEGETATIVE COVER: N/A
INCLUDE A MAP OR TABLE SHOWING TRANSECT LOCATIONS, PHOTOS DOCUMENTING PRE-CONSTRUCTION VEGETATIVE COVER, AND METHODOLOGY USED TO DETERMINE EXISTING VEGETATIVE COVER: N/A

POST-CONSTRUCTION
DATE OF SURVEY:
PERCENT VEGETATIVE COVER:
DESCRIPTION OF VEGETATION:
THE METHOD USED TO DETERMINE PRE-CONSTRUCTION PERCENT COVER SHALL BE USED TO DETERMINE POST CONSTRUCTION PERCENT COVER.
INCLUDE MAP OR TABLE SHOWING TRANSECT LOCATIONS, PHOTOS DOCUMENTING POST-CONSTRUCTION VEGETATIVE COVER, AND METHODOLOGY USED TO DETERMINE EXISTING VEGETATIVE COVER:

2. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. POTENTIAL POLLUTANT SOURCES
REFER TO POTENTIAL POLLUTANT SOURCES IN SWMP SECTION 4A. EVALUATE, IDENTIFY AND DESCRIBE ALL POTENTIAL SOURCES OF POLLUTANTS AT THE SITE AND PLACE ANY CONTROL MEASURES REQUIRED TO CONTAIN POTENTIAL POLLUTANTS.

B. OFFSITE DRAINAGE (RUN ON WATER):
PLACE CONTROL MEASURES TO ADDRESS RUN-ON WATER IN ACCORDANCE WITH SUBSECTION 208.03.

C. CONSTRUCTION DEWATERING:
OBTAIN A CDPS DEWATERING PERMIT FROM CDPHE IF CONDITIONS OF THEIR LOW RISK GUIDANCE FOR DISCHARGES OF UNCONTAMINATED GROUNDWATER TO LAND ARE NOT MET.

D. VEHICLE TRACKING CONTROL:
CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH SUBSECTION 208.04.

E. PERIMETER CONTROL:
PERIMETER CONTROL SHALL BE ESTABLISHED AS THE FIRST ITEM ON THE SWMP TO PREVENT THE POTENTIAL FOR POLLUTANTS LEAVING THE CONSTRUCTION SITE BOUNDARIES, ENTERING THE STORMWATER DRAINAGE SYSTEM, OR DISCHARGING TO STATE WATERS.
PERIMETER CONTROL MAY CONSIST OF BERMS, SILT FENCE, EROSION LOGS, EXISTING LANDFORMS, OR OTHER CONTROL MEASURES AS APPROVED.

3. QUALIFIED STORMWATER MANAGERS

A. SWMP ADMINISTRATOR FOR DESIGN:
INDIVIDUAL RESPONSIBLE FOR DEVELOPING SWMP PLAN SHEETS AND SWMP SITE MAPS DURING THE DESIGN PHASE.

NAME/TITLE AND CONTACT INFORMATION
WILLIAM COMERER, P.E., CFM
PROJECT ENGINEER
(970) 244-1417
WILLIAMC@GJCITY.ORG

B. SWMP ADMINISTRATOR FOR CONSTRUCTION:
(AS DEFINED IN SECTION 208) THE CONTRACTOR SHALL DESIGNATE A SWMP ADMINISTRATOR FOR CONSTRUCTION. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL BECOME THE OPERATOR FOR THE SWMP AND ASSUME RESPONSIBILITY FOR ALL DESIGN CHANGES TO THE SWMP IMPLEMENTATION AND MAINTENANCE IN ACCORDANCE TO 208.03, THE SWMP SHALL REMAIN THE PROPERTY OF CITY OF GRAND JUNCTION. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL BE RESPONSIBLE FOR IMPLEMENTING, MAINTAINING, AND REVISING SWMP, INCLUDING THE TITLE AND CONTACT INFORMATION. THE ACTIVITIES AND RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL ADDRESS ALL ASPECTS OF THE PROJECT'S SWMP. (UPDATE THE INFORMATION BELOW FOR EACH NEW SWMP ADMINISTRATOR FOR CONSTRUCTION)

NAME/TITLE AND CONTACT INFORMATION (PHONE & EMAIL) WITH START DATE:

4. DURING CONSTRUCTION

THE SWMP SHOULD BE CONSIDERED A "LIVING DOCUMENT" THAT IS CONTINUOUSLY REVIEWED AND MODIFIED. DURING CONSTRUCTION, THE FOLLOWING ITEMS SHALL BE ADDED, UPDATED, OR AMENDED AS NEEDED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 208.

A. MATERIALS HANDLING AND SPILL PREVENTION:
PRIOR TO CONSTRUCTION COMMENCING THE CONTRACTOR SHALL SUBMIT A SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN, SEE SUBSECTION 208.06. MATERIALS HANDLING SHALL BE IN ACCORDANCE WITH SUBSECTION 208.06.

B. STOCKPILE MANAGEMENT:
SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 208.07

C. CONCRETE WASHOUT:
CONCRETE WASH OUT WATER OR WASTE FROM FIELD LABORATORIES AND PAVING EQUIPMENT SHALL BE CONTAINED IN ACCORDANCE WITH SUBSECTION 208.05.

D. SAW CUTTING:
SHALL BE DONE IN ACCORDANCE WITH SUBSECTIONS 208.04 AND 208.05

E. STREET SWEEPING:
SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 208.04

5. CONTROL MEASURE MAINTENANCE

MAINTENANCE SHALL BE IN ACCORDANCE WITH SUBSECTION 208.04 (F).

6. INTERIM AND PERMANENT STABILIZATION

THE CONTRACTOR SHALL COMPLY WITH ALL INTERIM STABILIZATION AND PERMANENT STABILIZATION REQUIREMENTS IN ACCORDANCE WITH SUBSECTION 208.04(E).

7. PRIOR TO PROJECT FINAL ACCEPTANCE

1. REMOVAL AND DISPOSAL OF TEMPORARY CONTROL MEASURES SHALL BE INCLUDED IN THE COST OF WORK.
2. REFER TO SPECIFICATION 208.10 FOR ITEMS TO BE COMPLETED PRIOR TO REQUESTING PARTIAL ACCEPTANCE OF WATER QUALITY WORK.

8. NARRATIVES:

CONTROL MEASURE MATRIXES DURING CONSTRUCTION

1. CONTROL MEASURE NARRATIVES HAVE BEEN INCLUDED FOR THE CDOT STANDARD SPECIFICATIONS AND STANDARD PLAN M-208 AND M-216 ALONG WITH ANY NON-STANDARD CONTROL MEASURES APPROVED DURING THE DESIGN PROCESS. IF A NON-STANDARD CONTROL MEASURE NOT INCLUDED IN THE SWMP IS PROPOSED AND APPROVED BY THE ENGINEER THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL DO THE FOLLOWING: PLACE AN "X" IN THE COLUMN FOR NON-STANDARD AND COMPLETE A NON-STANDARD CONTROL MEASURE SPECIFICATION AND NARRATIVE COVERING THE WHAT, WHEN, WHERE AND WHY THE CONTROL MEASURE IS BEING USED SHALL BE ADD TO THE SWMP. THE APPROPRIATE "X" SHALL ALSO BE ADDED TO THE IMPLEMENTATION PHASE(S).

2. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL PLACE AN "X" IN THE COLUMN IN USE ON SITE WHEN THE CONTROL MEASURE HAS BEEN INSTALLED.

A "B" IN THE INITIAL ACTIVITIES COLUMN INDICATES THAT THE CONTROL MEASURE SHALL BE INSTALLED BEFORE CONSTRUCTION STARTS.

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NO SCALE

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STRUCTURAL CONTROL MEASURES THAT MAY BE POTENTIALLY USED ON THE PROJECT FOR EROSION AND SEDIMENT CONTROL; PRACTICES MAY INCLUDE, BUT ARE NOT LIMITED TO:

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATIO N
Storm Drain Inlet Protection In Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	Manufactured storm drain inlet protection placed prior to construction disturbances as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	M-208		**B or X**	**X**	**X**
STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags*	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stockpile, increase control as stockpile increases size.	M-208			**X**	
PERIMETER CONTROL Erosion logs, silt fence, temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208		**B or X**	**X**	
CONCRETE WASHOUT Prefabricated	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities. The contractor shall provide a concrete washout conforming with the requirements for a Type II prefabricated concrete washout as described in Section 208 of the 2022 CDOT Standard Specifications for Road and Bridge Construction.	X		**X**	**X**	
VEHICLE TRACKING PAD Prefabricated	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances. The contractor shall provide prefabricated vehicle tracking pads conforming with the requirements for a modular system as described in Section 208 of the 2022 CDOT Standard Specifications for Road and Bridge Construction, including Table 208-10.	X		**B or X**	**X**	
OTHER						

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NON–STRUCTURAL CONTROL MEASURES THAT MAY BE POTENTIALLY USED ON THE PROJECT FOR EROSION AND SEDIMENT CONTROL; PRACTICES MAY INCLUDE, BUT ARE NOT LIMITED TO:

APPLICATION, CONTROL MEASURE	NARRATIVE	M-STANDARD or "For NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			X	X	X
OTHER						

9. BIOLOGICAL IMPACTS AND DEWATERING

A. ENVIRONMENTAL IMPACTS:

WETLAND IMPACTS: NO
STREAM IMPACTS: NO
THREATENED AND ENDANGERED SPECIES: NO SPECIES ARE ANTICIPATED TO BE IMPACTED BY THE PROJECT.

B. DEWATERING:

DEWATERING: REFER TO SUBSECTION 103.13.
IF GROUNDWATER DOES NOT MEET WATER QUALITY STANDARDS FOR RECEIVING WATER A SEPARATE CDPS DEWATERING PERMIT SHALL BE OBTAINED BY THE CONTRACTOR FROM CDPHE.

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LIMITS OF CONSTRUCTION

DIRECTION OF STORMWATER FLOW

SANITARY FACILITY (LOCATE A MINIMUM OF 50 FEET AWAY FROM STATE WATERS, LOCATION BY CONTRACTOR)

PREFABRICATED CONCRETE WASHOUT STRUCTURE (TYPE II – LOCATE A MINIMUM OF 50 FEET AWAY FROM STATE WATERS, LOCATION BY CONTRACTOR)

STORM DRAIN INLET PROTECTION TYPE II PER CDOT M STANDARD PLAN M-208-1 SHT 5 OF 11

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2026 WATERLINE REPLACEMENT PROJECT
SWMP MAP
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