

Purchasing Division

ADDENDUM NO. 3

DATE: August 27, 2024
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: Sewer Replacement 12th Street and Wellington Avenue IFB-5487-24-DD

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded, and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. **Clarifications:**

- Flow rate in manhole in 12th street estimated to be half full
- Updated Bid sheet attached. **Please use when submitting your bid.**
 - Includes spot repair line item
- Updated drawing sheet set
 - Include spot repair
- Confirm replace MH in 12th Street?
 - DO NOT REPLACE Manhole in 12th street



The original solicitation for the project noted above is amended as noted. All other conditions of the subject remain the same.

Respectfully,

Dolly Daniels, Senior Buyer
City of Grand Junction, Colorado

Contractor's Bid Form

Bid Date: _____

Project: IFB-5487-24-DD "Sewer Replacement 12th Street and Wellington Avenue"

Bidding Company: _____

Name of Authorized Agent: _____

Email _____

Telephone _____ **Address** _____

City _____ **State** _____ **Zip** _____

The undersigned Offeror, in compliance with the Invitation for Bids, having examined the Instruction to Offerors, General Contract Conditions, Statement of Work, Specifications, and any and all Addenda thereto, having investigated the location of, and conditions affecting the proposed Work, hereby proposes to furnish all labor, materials and supplies, and to perform all Work for the Project in accordance with Contract Documents, within the time set forth and at the prices stated below. These prices are to cover all expenses incurred in performing the Work required under the Contract Documents, of which this Contractor's Bid Form is a part.

The undersigned Contractor does hereby declare and stipulate that this offer is made in good faith without collusion or connection to any person(s) providing an offer for the same Work, and that it is made in pursuance of, and subject to, all terms and conditions of the Instructions to Offerors, the Specifications, and all other Solicitation Documents, all of which have been examined by the undersigned.

The Contractor also agrees that if awarded the Contract, to provide insurance certificates within ten (10) working days of the date of Notification of Award. Submittal of this offer will be taken by the Owner as a binding covenant that the Contractor will be prepared to complete the project in its entirety.

The Owner reserves the right to make the award on the basis of the offer deemed most favorable, to waive any formalities or technicalities and to reject any or all offers. It is further agreed that this offer may not be withdrawn for a period of sixty (60) calendar days after closing time. Submission of clarifications and revised offers automatically establish a new thirty day (30) period.

Prices in the bid proposal have not knowingly been disclosed with another provider and will not be prior to award.

- Prices in this bid proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.
- No attempt has been made nor will be to induce any other person or Contractor to submit a bid proposal for the purpose of restricting competition.
- The individual signing this bid proposal certifies they are a legal agent of the offeror, authorized to represent the offeror and is legally responsible for the offer with regard to supporting documentation and prices provided.
- Direct purchases by the City of Grand Junction are tax exempt from Colorado Sales or Use Tax. Tax exempt No. 98-03544. The undersigned certifies that no Federal, State, County or Municipal tax will be added to the above quoted prices.
- City of Grand Junction payment terms shall be Net 30 days.
- Prompt payment discount of _____ percent of the net dollar will be offered to the Owner if the invoice is paid within _____ days after the receipt of the invoice. The Owner reserves the right to take into account any such discounts when determining the bid award that are no less than Net 10 days.

RECEIPT OF ADDENDA: the undersigned Contractor acknowledges receipt of Addenda to the Solicitation, Specifications, and other Contract Documents.

State number of Addenda received: _____.

It is the responsibility of the Offeror to ensure all Addenda have been received and acknowledged.

By signing below, the Undersigned agree to comply with all terms and conditions contained herein.

Company: _____

Authorized Signature: _____

Title: _____

The undersigned Offeror proposes to subcontract the following portion of Work:

<u>Name & address of Sub-Contractor</u>	<u>Description of Work to be performed</u>	<u>% of Contract</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

The undersigned Offeror acknowledges the right of the City to reject any and all Bids submitted and to waive informalities and irregularities therein in the City's sole discretion.

By submission of the Bid, each Offeror certifies, and in the case of a joint Bid each party thereto certifies as to its own organization, that this Bid has been arrived at independently, without collusion, consultation, communication, or agreement as to any matter relating to this Bid with any other Offeror or with any competitor.

**PRICE BID SCHEDULE IFB-5487-24-DD
ADDENDUM NO. 3**

Item No.	(Div. No.)	Description	Quantity	Units	Unit Price	Total Price
1	102.14	Concrete Encasement	20	LF	\$ _____	\$ _____
2	108.2	Gravity Sewer Pipe (4") (SDR-35 PVC) includes haunching & bedding material and native material for backfill	10	LF	\$ _____	\$ _____
3	108.2	Gravity Sewer Pipe (8") (SDR-35 PVC) includes haunching & bedding material and native material for backfill	680	LF	\$ _____	\$ _____
4	108.3	Sewer Service Tap (8" x 4") (Full Body Wye)	2	EA	\$ _____	\$ _____
5	108.5	Sanitary Sewer Basic Manhole (48" I.D.)	5	EA	\$ _____	\$ _____
6	108.5	Manhole Barrel Section	30	VLF	\$ _____	\$ _____
7	201	Clearing & Grubbing	1	LS	\$ _____	\$ _____
8	202	Removal of Concrete	32	SY	\$ _____	\$ _____
9	202	Removal of Asphalt Mat (Full Depth)	1812	SF	\$ _____	\$ _____
10	202	Removal of Asphalt Mat (Planing) (2" Thick for T-Top Section)	906	SF	\$ _____	\$ _____
11	202	Removal of Existing Pipe	680	LF	\$ _____	\$ _____
12	202	Removal of Manhole	6	EA	\$ _____	\$ _____
13	208	Erosion & Sediment Control	1	LS	\$ _____	\$ _____
14	210	Reset Landscape Ground Cover	1205	SF	\$ _____	\$ _____
15	210	Reset Rock Landscaping	140	SF	\$ _____	\$ _____
16	212	Seeding (20 lbs/AC)	0.03	AC	\$ _____	\$ _____
17	108.4	Type A imported backfill material where native material is unacceptable for Backfill, density assumed 125 lb/ft ³	1035	TONS	\$ _____	\$ _____
18	304	Aggregate Base Course (Class 6) (6" thick)	68	TONS	\$ _____	\$ _____
19	401	Hot Bituminous Pavement (Patching) (4" Thick Bottom Lift) (Grading SX, PG 64-22) (GYR.=75) (Two 2" Lifts)	302	SY	\$ _____	\$ _____
20	-	Cold Patch 4" thick at 12 th Street	70	SY	\$ _____	\$ _____
21	680.06	Concrete Curb (6" wide, 6" high)	35	LF	\$ _____	\$ _____
22	608.06	Concrete Flatwork	30	SY	\$ _____	\$ _____
23	620	Portable Sanitary Facility	1	EA	\$ _____	\$ _____
24	625	Construction Surveying (Includes As-Built Drawings)	1	LS	\$ _____	\$ _____
25	626	Mobilization	1	LS	\$ _____	\$ _____
26	630	Traffic Control (Complete in Place)	1	LS	\$ _____	\$ _____
27	108.2	Spot Repair - Parking Lot page C1.5	1	LS	\$ _____	\$ _____
28	MCR	Minor Contract Revision	1	LS		\$60,000.00
			Bid Amount:		\$ _____	
Written Bid Amount: _____						Dollars

CITY OF GRAND JUNCTION

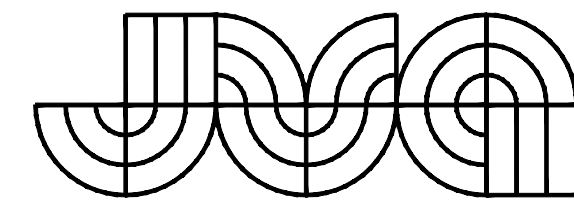
12TH ST AND WELLINGTON AVE SEWER REPLACEMENT

GRAND JUNCTION, CO

BID SET

CONTACTS

OWNER:	CITY OF GRAND JUNCTION 333 WEST AVENUE, BUILDING C GRAND JUNCTION, CO 81501	TOBY THIEMAN (970) 244-1559 TOBYT@GJ.CITY.ORG
ENVIRONMENTAL ENGINEER:	JVA, INC 817 COLORADO AVENUE, SUITE 301 GLENWOOD SPRINGS, CO 81601	COOPER BEST, P.E. (970) 404-3003 CBEST@JVAJVA.COM
SURVEYOR:	CITY OF GRAND JUNCTION ENGINEERING AND TRANSPORTATION DEPARTMENT 244 NORTH 7TH STREET GRAND JUNCTION, CO 81501	RENEE PARENT, P.E., P.L.S. (970) 256-4003 RENEEP@GJ.CITY.ORG



CONSULTING ENGINEERS
 JVA, Inc. 817 Colorado Ave., Suite 301
 Glenwood Springs, CO Zip 81601
 970.404.3100
 www.jvajva.com
 Boulder • Fort Collins • Winter Park
 Glenwood Springs • Denver

DRAWING INDEX

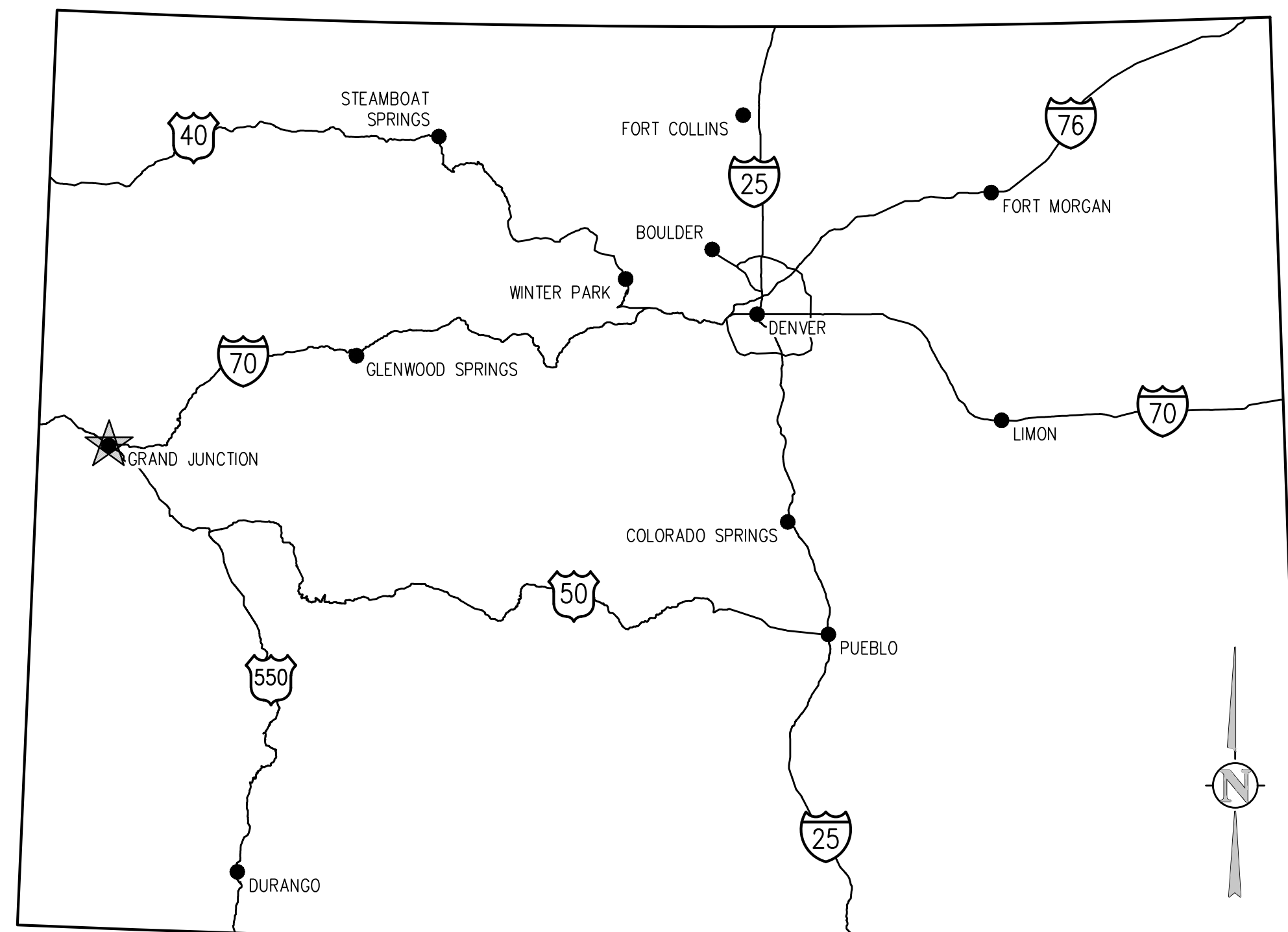
SHEET NO.	TITLE
G0.0	COVER PAGE
G0.1	LEGEND, NOTES AND ABBREVIATIONS
C1.0	OVERALL UTILITY PLAN
C2.0	SANITARY SEWER PLAN AND PROFILE
C2.1	SANITARY SEWER PLAN AND PROFILE
C1.5	SPOT REPAIR

ADDENDUM #3 ADD SPOT REPAIR PAGE C1.5
change Manhole Quantity for replacement

JUNE 2024

PREPARED UNDER THE SUPERVISION OF

JVA, Inc.



VICINITY MAP
NTS

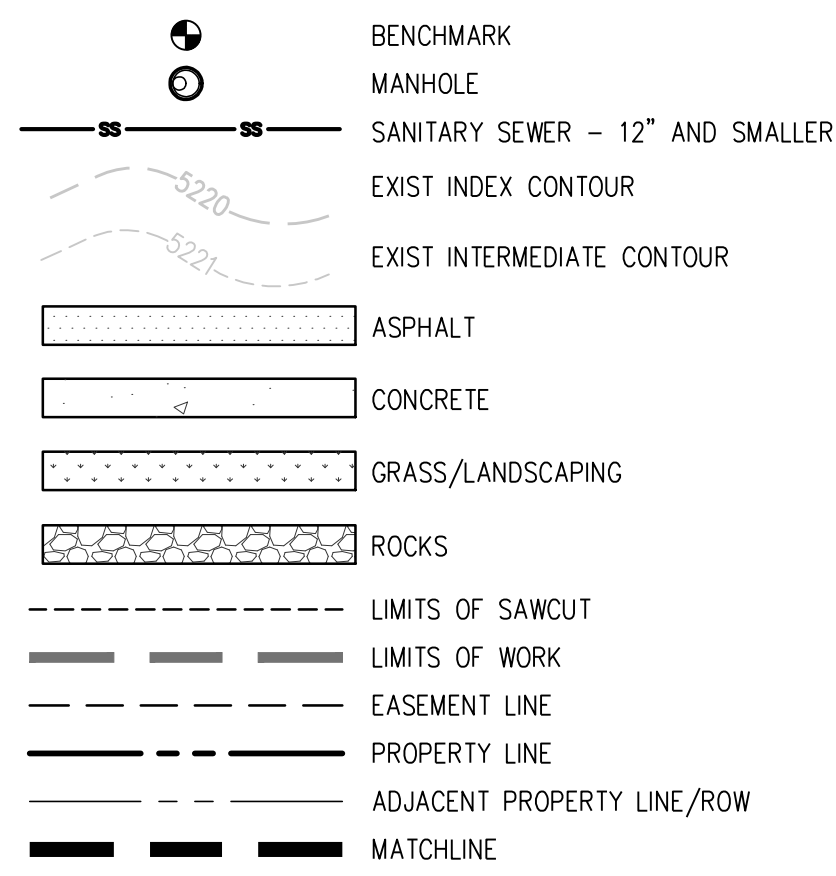


PROJECT LOCATION MAP
NTS

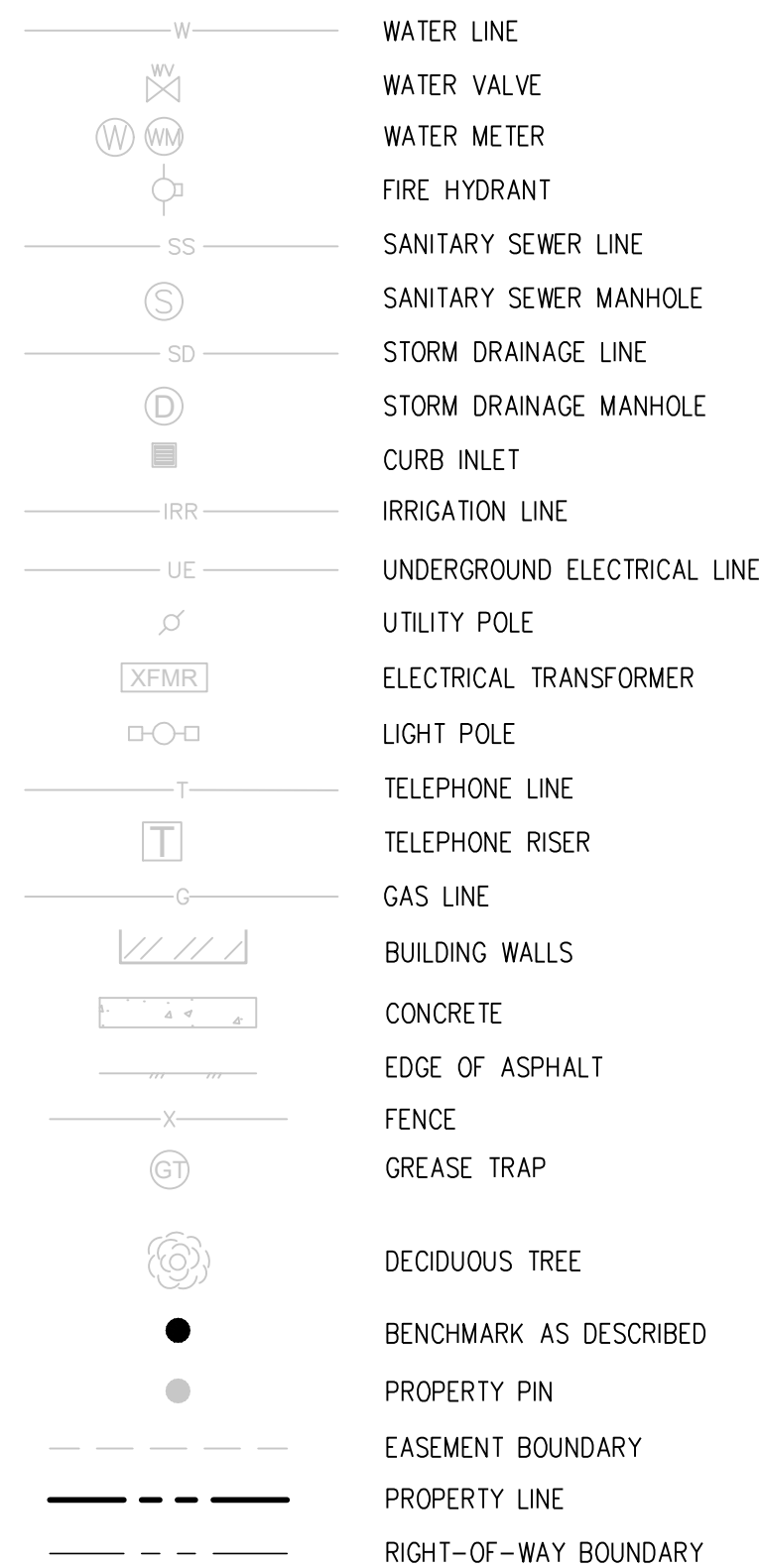
ABBREVIATIONS

AASHTO	AMERICAN ASSOC. OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	G	GAS	QTY	QUANTITY
ABAN	ABANDON	GA	GAUGE	R	RIGHT
AC	ASPHALTIC CONCRETE PAVING	GAL	GALLON	RAD	RADIUS
ADDL	ADDITIONAL	GALV	GALVANIZED	RCP	REINFORCED CONCRETE PIPE
ADDM	ADDENDUM	GCO	GRADE CLEANOUT	RD	ROOF DRAIN
ADJ	ADJUSTABLE	GIP	GALVANIZED IRON PIPE	RE	REFERENCE
AL	ALUMINUM	GND	GROUND	RECT	RECTANGULAR
ALT	ALTERNATE	GPD	GALLONS PER DAY	RENF	REINFORCE (D) (ING) (MENT)
AMT	AMOUNT	GPM	GALLONS PER MINUTE	REOD	REQUIRED
APPROX	APPROXIMATE	GR	GRATE	ROW	RIGHT OF WAY
ARCH	ARCHITECT(URAL)	GRTG	GRATING	SAN	SANITARY
ARV	AIR RELIEF VALVE	GSP	GALVANIZED STEEL PIPE	SAWCUT	SAWCUT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	GV	GATE VALVE	SD	STORM DRAIN
ASPH	ASPHALT	H	HIGH	SECT	SECTION
ASSY	ASSEMBLY	HB	HOSE BIB	SPD	STANDARD PROCTOR DENSITY
ASYM	ASYMMETRICAL	HE	HORIZONTAL ELLIPTICAL	SPEC	SPECIFICATION
AUTO	AUTOMATIC	HDWL	HEADWALL	SO	SQUARE
AVG	AVERAGE	HNDRL	HAND RAIL	SO IN	SQUARE INCH
AWWA	AMERICAN WATER WORKS ASSOC.	HORIZ	HORIZONTAL	SO FT	SQUARE FOOT
		HP	HIGH POINT	SO YD	SQUARE YARD
		HR	HOUR	SS	SANITARY SEWER
BC	BACK OF CURB	HVAC	HEATING, VENTILATION, AIR CONDITIONING	SST	STAINLESS STEEL
BFV	BUTTERFLY VALVE	HWY	HIGHWAY	STA	STATION
BGG	FINISHED GRADE ADJACENT TO BOTTOM OF WALL	HWL	HIGH WATER LINE	STD	STANDARD
BLD	BUILDING	HYD	HYDRANT	STL	STEEL
BLK	BLOCK			STRUCT	STRUCTURAL
BM	BENCH MARK	INCL	INCLUDED	SVC	SERVICE
BMP	BEST MANAGEMENT PRACTICE	ID	INSIDE DIAMETER	SWMP	STORMWATER MANAGEMENT PLAN
BS	BACKSIGHT	IN	INLET	SYM	SYMMETRICAL
BOS	BOTTOM OF STEP	INSUL	INSULATION	TB	THRUST BLOCK
BOT	BOTTOM	INVT	INVERT	TBC	TOP BACK OF CURB
BSMT	BASEMENT	IRR	IRRIGATION	TBM	TEMPORARY BENCH MARK
BVCE	BEGIN VERTICAL CURVE ELEVATION	JTS	JOINTS	TEMP	TEMPORARY
BVCS	BEGIN VERTICAL CURVE STATION			TC	FINISHED GRADE ADJACENT TO TOP OF WALL
BW	BOTTOM OF WALL	KO	KNOCKOUT	THK	THICK
CB	CATCH BASIN	KPL	KICK PLATE	TOB	TOP OF BANK
CCW	COUNTER CLOCKWISE	KWY	KEYWAY	TOC	TOP OF CONCRETE OR TOP OF CURB
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION	L	LEFT OR LITER	TOS	TOP OF STEP
CIP	CAST IRON PIPE	LSCAPE	LANDSCAPE(ING)	TOT	TOTAL
CJ	CONSTRUCTION JOINT	LF	LINEAR FOOT	TW	TOP OF WALL OR CAP OF WALL
CL	CENTER LINE OR CHAIN LINK	LP	LOW POINT OR LIGHT POLE	TYP	TYPICAL
CLR	CLEAR	LT	LIGHT	UBC	UNIFORM BUILDING CODE
CMP	CORRUGATED METAL PIPE	LWL	LOW WATER LEVEL	UCE	UNDERGROUND ELECTRIC
CMU	CONCRETE MASONRY UNIT			UTIL	UTILITY
CO	CLEANOUT	MAINT	MAINTENANCE	VERT	VERTICAL
CONC	CONCRETE	MAN	MANHOLE	VC	POINT OF VERTICAL CURVATURE
CONST	CONSTRUCTION	MATL	MATERIAL	VCP	VITRIFIED CLAY PIPE
CONT	CONTINUOUS(ATION)	MAX	MAXIMUM	W	WIDE OR WIDTH
COR	CORNER	ME	MATCH EXISTING	W/	WITH
CR	CONCENTRIC REDUCER	MECH	MECHANICAL	W/O	WITHOUT
CTR	CENTER	MEP	MECHANICAL, ELECTRICAL, PLUMBING (ARCH)	WOCV	WATER QUALITY CONTROL VOLUME
CY	CUBIC YARDS	MFR	MANUFACTURER	WSE	WATER SURFACE ELEVATION
DEMO	DEMOLITION	MH	MANHOLE	WW	WASTEWATER
DET	DETAIL	MIN	MINIMUM	X	SECT CROSS SECTION
DEA	DIAGONAL	MISC	MISCELLANEOUS	XFMR	ELECTRICAL TRANSFORMER
DIP	DUCTILE IRON PIPE	MJ	MECHANICAL JOINT		
DOM	DOMESTIC	N	NORTH	YH	YARD HYDRANT
DN	DOWN	NA	NOT APPLICABLE		
DR	DRAIN	NIC	NOT IN CONTRACT		
DWG	DRAWING	NPT	NATIONAL PIPE THREAD		
DWL	DOWEL	NTS	NOT TO SCALE		
E	EAST	OS	OFFSET		
EA	EACH	OC	ON CENTER		
ECC	ECCENTRIC	OD	OUTSIDE DIAMETER		
EJ	EXPANSION JT	OPP	OPPOSITE		
EL	ELEVATION	OPT	OPTIONAL		
ELB	ELBOW	PC	POINT OF CURVATURE		
ELEC	ELECTRICAL	PCO	PRESSURE CLEAN OUT		
ENGR	ENGINEER	PCR	POINT OF CURVE RETURN		
EOP	EDGE OF PAVEMENT	PI	POINT OF INTERSECTION		
EQ	EQUAL	PVI	POINT OF VERTICAL INTERSECTION		
EQUIP	EQUIPMENT	PL	PROPERTY LINE		
EQUIV	EQUIVALENT	PE	POLYETHYLENE		
ESMT	EASEMENT	PREFAB	PREFABRICATED		
EST	ESTIMATE	PRELIM	PRELIMINARY		
EVCE	END VERTICAL CURVE ELEVATION	PREP	PREPARATION		
EVCS	END VERTICAL CURVE STATION	PROP	PROPOSED		
EW	EACH WAY	PRV	PRESSURE REDUCING VALVE OR PRESSURE RELIEF VALVE		
EXP	JT EXPANSION JOINT	PSF	POUNDS PER SQUARE FOOT		
EXIST	EXISTING	PSI	POUNDS PER SQUARE INCH		
FND	FOUNDATION	PT	POINT OF TANGENCY		
FES	FLARED END SECTION	PV	PLUG VALVE		
FF	FINISH FLOOR	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE		
FG	FINISH GRADE	PVMT	PAVEMENT		
FH	FIRE HYDRANT				
FL	FLOW LINE				
FN	FENCE				
FOC	FACE OF CONCRETE				
FPM	FEET PER MINUTE				
FPS	FEET PER SECOND				
FT	FEET				
FTG	FOOTING OR FITTING				

DESIGN LEGEND



SURVEY LEGEND



NOTE: SHADED ITEMS REPRESENT EXIST FEATURES

GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF GRAND JUNCTION, COLORADO DEPARTMENT OF TRANSPORTATION, GRAND JUNCTION FIRE PROTECTION REQUIREMENTS, AND APPLICABLE STATE AND LOCAL STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL HAVE IN POSSESSION AT THE JOB SITE AT ALL TIMES ONE (1) SIGNED COPY OF APPROVED PLANS, STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EMERGENCY ACCESS ROUTES TO THE SITE AND STRUCTURE AT ALL TIMES PER THE APPLICABLE GRAND JUNCTION FIRE PROTECTION DISTRICT REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ANY VARIANCE TO THE ABOVE DOCUMENTS. NOTIFY ENGINEER OF ANY CONFLICTING STANDARDS OR SPECIFICATIONS. IN THE EVENT OF ANY CONFLICTING STANDARD OR SPECIFICATION, THE MORE STRINGENT OR HIGHER QUALITY STANDARD, DETAIL OR SPECIFICATION SHALL APPLY.
- THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARD SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK, INCLUDING, BUT NOT LIMITED TO A LOCAL AND STATE GROUNDWATER DISCHARGE AND COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT (CDPHE) STORMWATER DISCHARGE PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE REQUIRED PARTY OWNER AND ENGINEER AT LEAST 48 HOURS PRIOR TO START OF ANY CONSTRUCTION, PRIOR TO BACKFILLING, AND AS REQUIRED BY JURISDICTIONAL AUTHORITY AND/OR PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL CONTINUE WITH NOTIFICATIONS THROUGHOUT THE PROJECT AS REQUIRED BY THE STANDARDS AND SPECIFICATIONS.
- THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION BASED ON INFORMATION BY OTHERS. NOT ALL UTILITIES MAY BE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT SIZE, LOCATION AND TYPE OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT BEFORE COMMENCING WORK. THE ENGINEER AND/OR OWNER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS SHOWN ON PLANS. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND COSTS WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO PROCEEDING WITH GRADING AND CONSTRUCTION. ALL WORK PERFORMED IN THE AREA OF UTILITIES SHALL BE PERFORMED AND INSPECTED ACCORDING TO THE REQUIREMENTS OF THE UTILITY OWNER. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAPPING ANY EXISTING UTILITY (INCLUDING DEPTH) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION, AND FOR RELOCATING ENCOUNTERED UTILITIES AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL CONTACT AND RECEIVE APPROVAL FROM UTILITY OWNER AND ENGINEER BEFORE RELOCATING ANY ENCOUNTERED UTILITIES. CONTRACTOR RESPONSIBLE FOR SERVICE CONNECTIONS, AND RELOCATING AND RECONNECTING AFFECTED UTILITIES AS COORDINATED WITH UTILITY OWNER AND/OR ENGINEER, INCLUDING NON-MUNICIPAL UTILITIES (TELEPHONE, GAS, CABLE, ETC.), WHICH SHALL BE COORDINATED WITH THE UTILITY OWNER). THE CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER UPON DISCOVERY OF A UTILITY DISCREPANCY OR CONFLICT. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY NOTIFICATION CENTER OF COLORADO (1-800-922-1987, WWW.UNCC.ORG). SEE SURVEY UTILITY LOCATION INFORMATION BELOW.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR OWNER AND/OR CITY APPROVAL AND PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FENCING, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR AGREES TO COMPLY WITH THE PROVISIONS OF THE TRAFFIC CONTROL PLAN AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," PART VI, FOR CONSTRUCTION SIGNAGE AND TRAFFIC CONTROL. ALL TEMPORARY AND PERMANENT TRAFFIC SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH REGARD TO SIGN SHAPE, COLOR, SIZE, LETTERING, ETC. UNLESS OTHERWISE SPECIFIED. IF APPLICABLE, PART NUMBERS ON SIGNAGE DETAILS REFER TO MUTCD SIGN NUMBERS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR ENROUSION ON ABUTTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. GROUNDWATER TO BE PUMPED SHALL BE TESTED, PERMITTED, AND PUMPED PER THE STATE OF COLORADO AND LOCAL GROUNDWATER DISCHARGING PERMIT REQUIREMENTS.
- RIM AND GRATE ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE CONTRACTOR SHALL ADJUST RIMS AND OTHER IMPROVEMENTS TO MATCH FINAL PAVEMENT AND FINISHED GRADE ELEVATIONS.
- THE EXISTING AND PROPOSED ELEVATIONS OF FLATWORK, SIDEWALKS, CURBS, THRESHOLDS, PAVING, ETC. AS SHOWN HEREON ARE BASED ON EXTRAPOLATION OF FIELD SURVEY DATA, EXISTING CONDITIONS, AND DATA PROVIDED BY OTHERS. AT CRITICAL AREAS HYDRANT LATERALS AND SITE FEATURES, CONTRACTOR SHALL HAVE FORMWORK INSPECTED AND APPROVED BY OWNER, OWNER'S REPRESENTATIVE, OR ENGINEER PRIOR TO PLACING CONCRETE. MINOR ADJUSTMENTS, AS APPROVED, TO PROPOSED GRADES, INVERTS, ETC. MAY BE MADE TO PREVENT POONDING OR DISCREPANCIES WHICH PREVENT TYPICAL REQUIRED GRADES FROM BEING ACHIEVED. ALL FLATWORK MUST PREVENT POONDING AND PROVIDE POSITIVE DRAINAGE AWAY FROM EXISTING AND PROPOSED BUILDINGS, WALLS, ROOF DRAIN OUTFALLS, ACROSS DRIVES AND WALKS, ETC., TOWARDS THE PROPOSED INTENDED DRAINAGE FEATURES AND CONVEYANCES.
- FINAL LIMITS OF REQUIRED ASPHALT SAWCUTTING AND PATCHING MAY VARY FROM LIMITS SHOWN ON PLANS. CONTRACTOR TO PROVIDE SAWCUT AND PATCH WORK TO ACHIEVE POSITIVE DRAINAGE AND A SMOOTH TRANSITION TO EXISTING ASPHALT WITHIN SLOPES ACCEPTABLE TO THE ENGINEER AND WITHIN MUNICIPAL STANDARDS. CONTRACTOR SHALL PROVIDE ADDITIONAL SAWCUTTING AND PATCHING AT UTILITY WORK, CONNECTION POINTS TO EXISTING PAVEMENT AND FEATURES, ETC. THAT MAY NOT BE DELINEATED ON PLANS.
- ANY EXISTING MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC. TO BE PROTECTED AND TO REMAIN IN SERVICE. IF FEATURES EXIST, EXTEND OR LOWER TO FINAL SURFACE WITH LIKE KIND CAP WITH STANDARD CAST ACCESS LID WITH SAME MARKINGS. IN LANDSCAPED AREAS PROVIDE A CONCRETE COLLAR (18"x18"x6" THICK) AT ALL EXISTING AND PROPOSED MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC.
- OWNER TO APPROVE ALL PRIVATE CONCRETE FINISHING, JOINT PATTERNS AND COLORING REQUIREMENTS PRIOR TO CONSTRUCTION. SUBMIT JOINT LAYOUT PLAN TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- PIPE LENGTHS AND HORIZONTAL CONTROL POINTS SHOWN ARE FROM CENTER OF STRUCTURES, END OF FLARED END SECTIONS, ETC. SEE STRUCTURE DETAILS FOR EXACT HORIZONTAL CONTROL LOCATION. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ACTUAL PIPE LENGTHS TO ACCOUNT FOR STRUCTURES AND LENGTH OF FLARED END SECTIONS.
- ALL SURPLUS MATERIALS, TOOLS, AND TEMPORARY STRUCTURES, FURNISHED BY THE CONTRACTOR, SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR. ALL DEBRIS AND RUBBISH CAUSED BY THE OPERATIONS OF THE CONTRACTOR SHALL BE REMOVED, AND THE AREA OCCUPIED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL CONDITION, WITHIN 48 HOURS OF PROJECT COMPLETION, UNLESS OTHERWISE DIRECTED BY THE MUNICIPALITY OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE LOCAL JURISDICTION, THE STATE OF COLORADO, MILE HIGH FLOOD DISTRICT "URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3", THE M-STANDARD PLANS OF THE COLORADO DEPARTMENT OF TRANSPORTATION, AND THE APPROVED EROSION CONTROL PLAN. JURISDICTIONAL AUTHORITY MAY REQUIRE THE CONTRACTOR TO PROVIDE ADDITIONAL EROSION CONTROL MEASURES AT THE CONTRACTOR'S EXPENSE DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE PLANS DO NOT FUNCTION AS INTENDED. THE CONTRACTOR IS RESPONSIBLE FOR PROHIBITING SILT AND DEBRIS LADEN RUNOFF FROM LEAVING THE SITE, AND FOR KEEPING ALL PUBLIC AREAS FREE OF MUD AND DEBRIS. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING FINAL GRADES AND FOR REMOVING ACCUMULATED SEDIMENTATION FROM ALL AREAS INCLUDING SWALES AND DETENTION/WATER QUALITY AREAS. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND MUNICIPALITY.
- ADA COMPLIANCE: THE CROSS-SLOPE OF ALL WALKS MUST BE LESS THAN 1:48 (2.0%) PERPENDICULAR TO DIRECTION OF TRAVEL. RUNNING SLOPE OF ACCESSIBLE WALKS MUST BE NOT STEEPER THAN 1:20 (5.0%) IN DIRECTION OF TRAVEL. MAXIMUM GRADE OF ACCESSIBLE CURB RAMPS AND RAMPS IS 1:12 (8.3%). CURB RAMPS SHALL PROVIDE A LANDING AT THE TOP AND RAMP RUNS PROVIDE LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP. RUN AT A SLOPE NOT TO EXCEED 1:48. RAMPS RUNS EXCEEDING SIX INCHES SHALL INCLUDE HANDRAILS. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1:48 IN ALL DIRECTIONS. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO PLACEMENT OF FLATWORK OF SITE CONDITIONS OR DISCREPANCIES WHICH PREVENT TYPICAL REQUIRED GRADES FROM BEING ACHIEVED. ALL RAMPS, STAIRS, EDGE PROTECTION, AND RAILINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA STANDARDS. ACCESSIBLE CURB RAMPS SHALL CONFORM TO THE CDOT M-STANDARDS (SEE DETAIL M-608-1, ETC.). ACCESSIBLE FEATURE WITHIN THE PUBLIC RIGHTS-OF-WAY SHALL BE CONSTRUCTED TO CONFORM TO THE LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS.
- PROTECT ALL TREES AND VEGETATION. PLACE CONSTRUCTION FENCING AT DRIP LINE OF TREES AND PLANTS NEAR THE WORK ZONE. DEEP WATER TREES WEEKLY. HAND EXCAVATION REQUIRED AT ROOT ZONES WHERE PROPOSED PAVING OR UTILITY WORK IS WITHIN DRIPLINE OF TREES.
- LOCATIONS OF CLEANOUTS, LIGHTS, SIGNAGE, JUNCTION BOXES, AND OTHER SIGNIFICANT SITE FEATURES TO BE STAKED FOR ENGINEER AND OR OWNER APPROVAL PRIOR TO WORK. CLEANOUTS, JUNCTION BOXES, AND ADJACENT GRADES TO BE RAISED ONE-HALF INCH AT ASPHALT/CONCRETE (OR 1" AT LANDSCAPING) TO PROVIDE POSITIVE DRAINAGE AWAY FROM FEATURES.
- SURVEY INFORMATION:
BENCHMARK INFORMATION: TOPOGRAPHIC INFORMATION WAS PROVIDED BY THE CITY OF GRAND JUNCTION. SEE EXISTING CONDITIONS SURVEY 2023 SEWER LINE CONSTRUCTION DATED 1/10/2024. CONTROL POINTS SHOWN ON PLANS, THE FIELD SURVEYS AND PROCESSING OF DATA WAS MADE IN THE MESA COUNTY LOCAL COORDINATE SYSTEM (MCLCS) GRAND VALLEY AREA (GVA) ZONE AND NAVD88 VERTICAL DATUM WITH GEOID 12A MODEL TO CONVERT ELLIPSOID HEIGHTS TO ORTHOMETRIC ELEVATIONS. THE MCLCS USED THE IN THE SAID MHS SURVEY ARE BASED UPON REFERENCE FROM:
BENCHMARK
NORTHING 44412.354
EASTING 94661.540
NAVD 88, G12A ELEVATION: 4661.300 FT
COMMENT: 2" ALUMINUM CAP (LS#20617)
- BEARINGS ARE BASED ON THE NORTH LINE OF LOT 2, VILLAGE FAIR SUBDIVISION, S89°57'04"E, BASED ON THE MESA COUNTY LOCAL COORDINATE SYSTEM (MCLCS). COORDINATE AND VERIFY ALL VERTICAL AND HORIZONTAL DATA SHOWN IN SURVEY AND REPORT ANY IRREGULARITIES OR DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.
- HORIZONTAL CONTROL INFORMATION: HORIZONTAL CONTROL COORDINATES ARE BASED ON THE REFERENCED SURVEY AND ARE PROVIDED ON SHEET C2.0 OF THE PLANS.
- SURVEY UTILITY LOCATION INFORMATION PER THE SURVEYOR: SUBSURFACE UTILITIES ARE SHOWN IN APPROXIMATE HORIZONTAL AND VERTICAL LOCATIONS CONSISTENT WITH ASCE 38-02 QUALITY LEVEL "B" (INFORMATION OBTAINED BY THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF VIRTUALLY ALL UTILITIES WITHIN THE PROJECT LIMITS. THE INFORMATION OBTAINED IN THIS MANNER IS SURVEYED TO PROJECT CONTROL.) AND QUALITY LEVEL "C" (INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D; INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS), AND BASED ON FIELD MEASUREMENTS PROVIDED BY THE OWNER AND THE CONTRACTOR. SUBSURFACE UTILITIES ARE NOT DEPICTED TO THE EXTENT SET FORTH IN ASCE 38-02 QUALITY LEVELS "A" (INFORMATION OBTAINED THROUGH THE NONDESTRUCTIVE EXPOSURE OF UNDERGROUND UTILITIES, AND ALSO PROVIDES THE TYPE, SIZE, CONDITION, MATERIAL AND OTHER CHARACTERISTICS OF UNDERGROUND FEATURES), TO THE EXTENT DEEMED NECESSARY FOR THE PROTECTION OF PERSONS AND PROPERTY, POTHOLES OR OTHER PRECISE MAPPING MAY BE COMPLETED TO CONFIRM THE EXACT LOCATION OF ANY SUBSURFACE UTILITIES. NOTIFY OWNER AND ENGINEER WITH ALL UTILITY INFORMATION PRIOR TO CONSTRUCTION. VISIT [HTTPS://WWW.FHWA.DOT.GOV/PROGRAMADMIN/SJEINDEX.CFM](https://www.fhwa.dot.gov/programadmin/sjeindex.cfm) FOR MORE INFORMATION.
- SERVICE TAP LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND RESTORING ALL SERVICE CONNECTIONS.
- THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE SHALL FURNISH THE OWNER AND ENGINEER OF RECORD A COMPLETE SET OF CONSTRUCTION RECORD DRAWINGS ("AS-BUILTS") FOR THE CONSTRUCTED IMPROVEMENTS. THE AS-BUILT SET SHALL SHOW SUFFICIENT DIMENSION TIES TO PERMANENT SURFACE FEATURES OR NORTHING/EASTING POINTS FOR ALL BURIED FACILITIES TO ALLOW FOR FUTURE LOCATING. THE AS-BUILT SET SHALL SHOW AS-BUILT CONTOURS AND ELEVATIONS OF ASPHALT AND CONCRETE FLATWORK, FLOWLINES, GRADE BREAKS, STAIRS, CROSS-SLOPES, HIGH AND LOW POINTS, AND ADDITIONAL ELEVATIONS TO DEMONSTRATE IMPROVEMENTS WERE CONSTRUCTED PER PLANS. THE AS-BUILT SET SHALL SHOW ELEVATIONS OF ALL DETENTION/WATER QUALITY FACILITIES, INCLUDING BUT NOT LIMITED TO BERMS, SPILLWAYS, BASIN BOTTOM, PIPE INVERTS, AND CONTROL STRUCTURE FEATURES (AS SURVEYED AND STAMPED BY A CERTIFIED P.L.S.). THE AS-BUILT SET SHALL ALSO INCLUDE ELEVATIONS OF MANHOLES, PIPES, INLETS, GRATES, AND SIZES OF ALL UTILITIES. THE AS-BUILT SET SHALL SHOW ANY AND ALL VARIATIONS FROM THE APPROVED PLAN. ENGINEER WILL PRODUCE FINAL RECORD DRAWINGS.

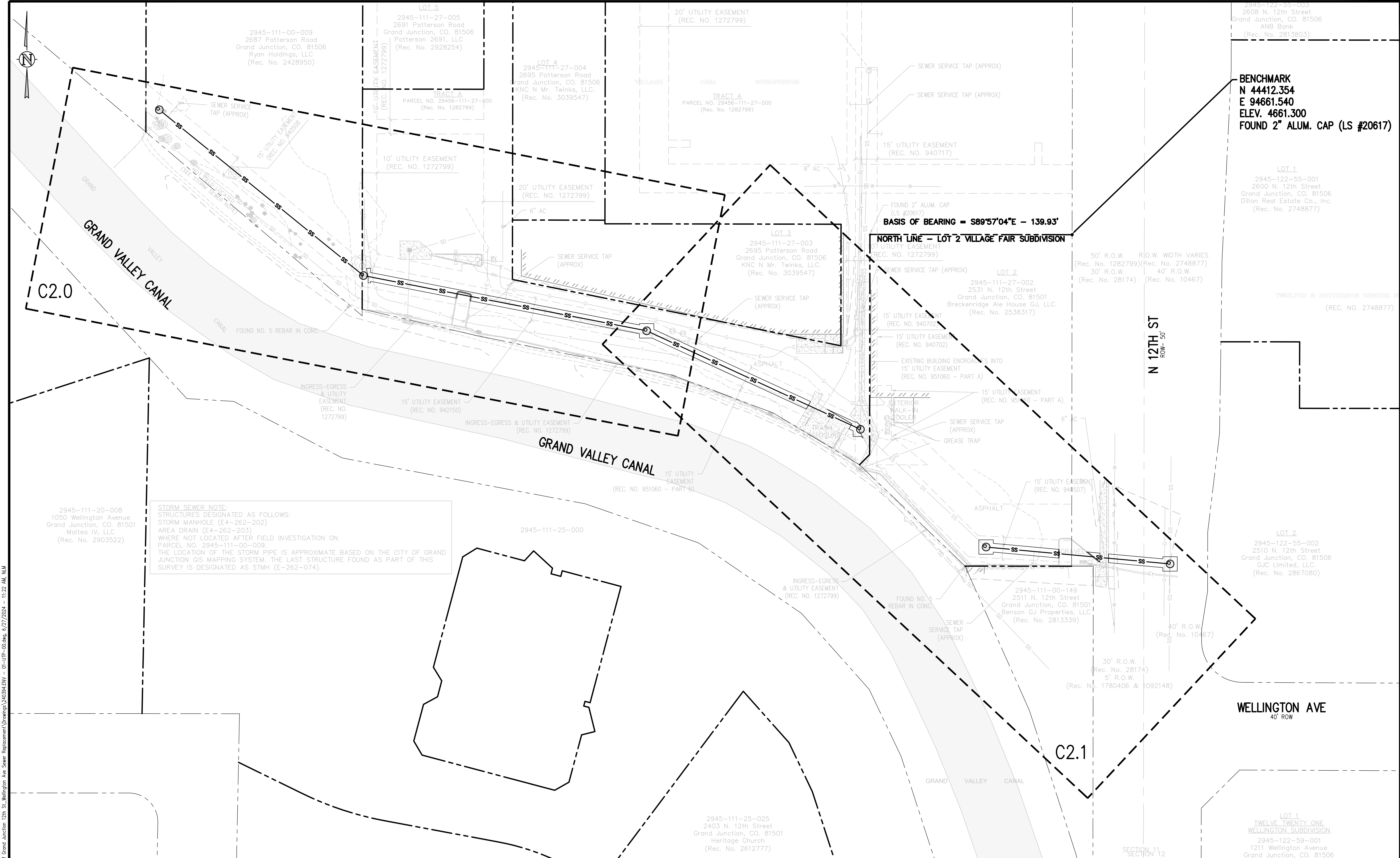
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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALES:
REVISION	ADD SPOT REPAIR PAGE C1.5 IIT	08.21.2024	ZCF/NLM		PLAN & PROFILE
REVISION			ZCF/AMF		
REVISION			JJM		
REVISION					



**12TH AND WELLINGTON AVE
SEWER REPLACEMENT**
LEGEND, NOTES AND ABBREVIATIONS

GO.1



STORM SEWER NOTE:
 STRUCTURES DESIGNATED AS FOLLOWS:
 STORM MANHOLE (E4-262-202)
 AREA DRAIN (E4-262-203)
 WHERE NOT LOCATED AFTER FIELD INVESTIGATION ON
 PARCEL NO. 2945-111-00-009.
 THE LOCATION OF THE STORM PIPE IS APPROXIMATE BASED ON THE CITY OF GRAND
 JUNCTION GIS MAPPING SYSTEM. THE LAST STRUCTURE FOUND AS PART OF THIS
 SURVEY IS DESIGNATED AS STMH (E-262-074).

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REVISION B		
REVISION C		
REVISION D		

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DESIGNED BY	ZCF/AMF	DATE	
CHECKED BY	JJM	DATE	
APPROVED BY		DATE	

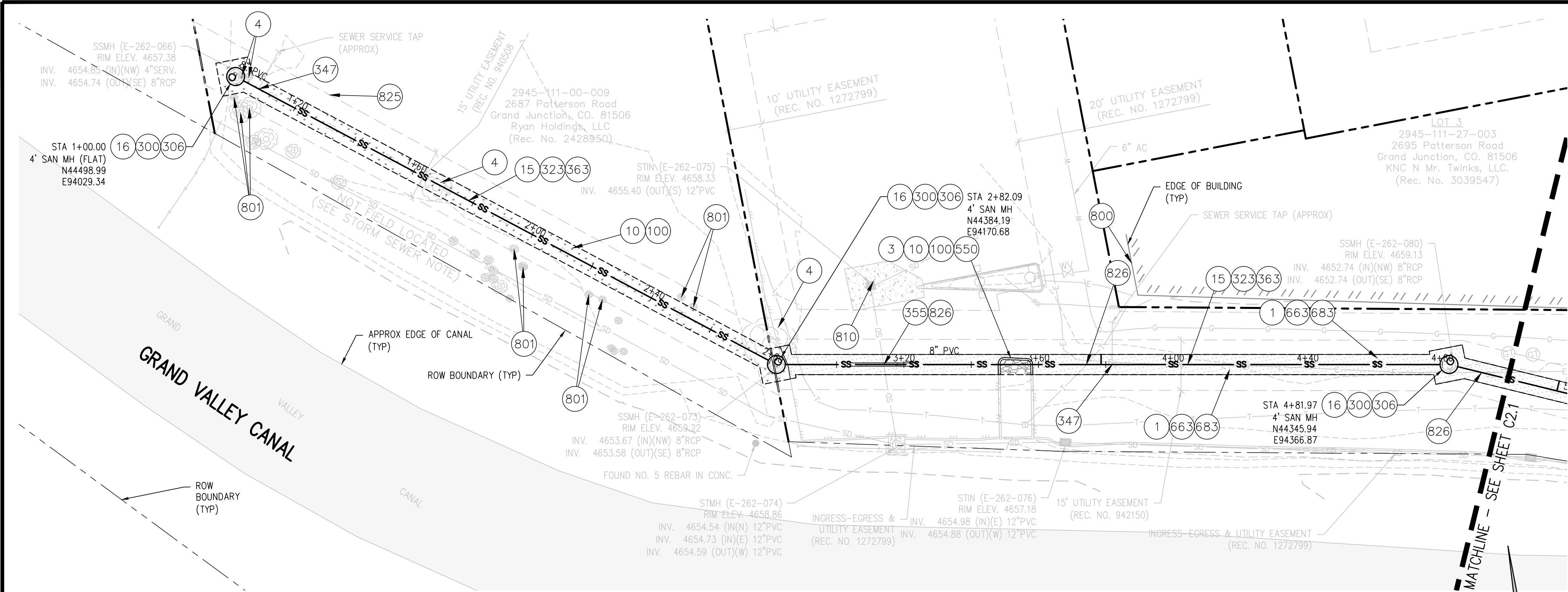
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 PLAN & PROFILE
 HORIZONTAL
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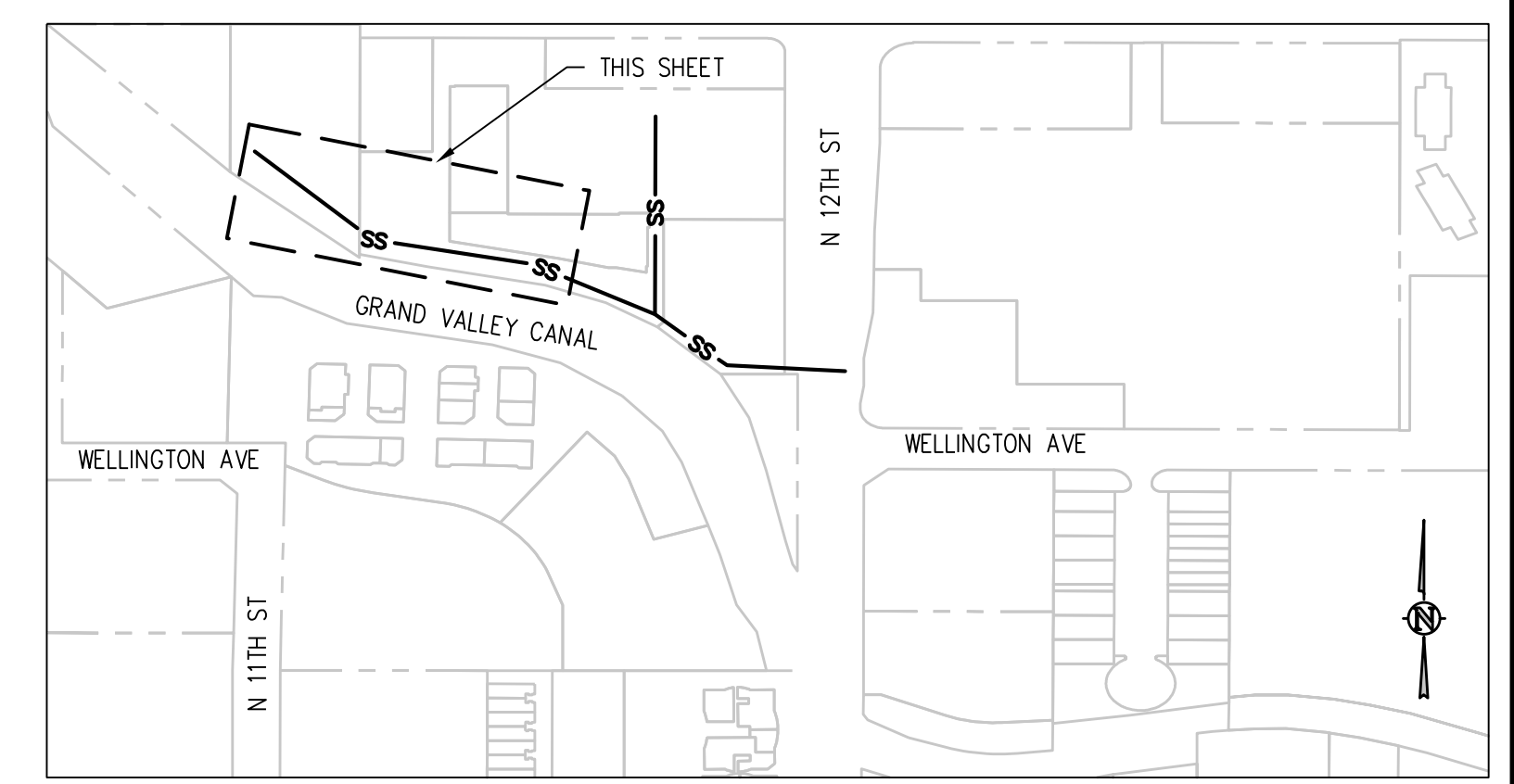
JVA, Inc.
 817 Colorado Avenue, Suite 301
 Glenwood Springs, CO 81601
 970.404.3100
 www.jvajva.com
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**12TH AND WELLINGTON AVE
 SEWER REPLACEMENT
 OVERALL UTILITY PLAN**

C1.0

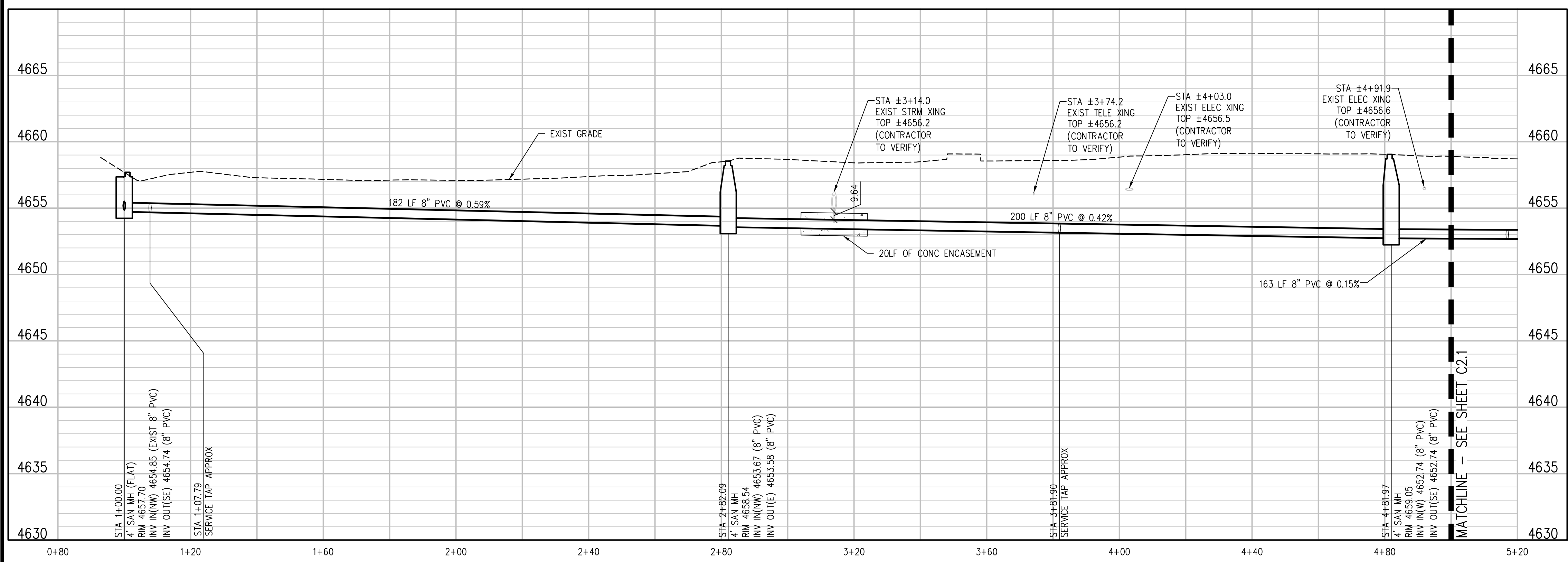


12TH AND WELLINGTON SANITARY SEWER PLAN
SCALE: 1" = 20'



KEY MAP
NTS
CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (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.
- 4 202 - REMOVAL OF TREE (SIZE AS SHOWN ON PLAN)
- 10 202 - REMOVAL OF LANDSCAPE GROUND COVER AND ANY UNDERLYING BARRIER. STOCKPILE PER PROPERTY OWNERS RECOMMENDATION.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02). FIELD COAT MANHOLE INTERIOR WITH SYSTEM NO. 30 PER SECTION 09900 OF THE PROJECT MANUAL.
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.)
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 8" X 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 363 BYPASS PUMPING WILL BE REQUIRED FOR CONSTRUCTION.
- 550 608.06 - CONCRETE CURB (6" WIDE, 6" HIGH)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 683 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (6" THICK) (GRADING SX, BINDER GRADE PG 64-22) (THREE 2" LIFTS)
- 800 PROTECT CONCRETE FEATURE IN PLACE AS SHOWN.
- 801 PROTECT TREE.
- 810 PROTECT STORM DRAIN INLET.
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- 827 PROTECT EXISTING GAS.



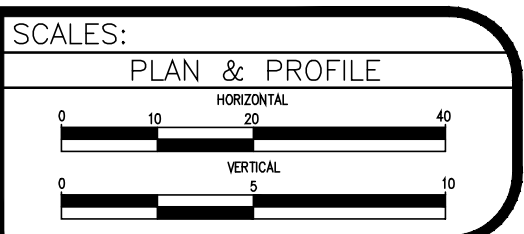
UTILITY NOTES:

- SEWER SERVICE LOCATIONS ARE ESTIMATED BASED ON VIDEO INSPECTION RECORDS. CONTRACTOR TO VERIFY SERVICE LOCATION PRIOR TO CONSTRUCTION. VIDEO INSPECTION RECORDS PROVIDED UPON REQUEST BY THE CITY OF GRAND JUNCTION.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
- ALL DRY UTILITY AND ELECTRIC DESIGNS ARE PROVIDED BY OTHERS AND SHOWN FOR REFERENCE ONLY. SEE MEP PLANS AND SPECIFICATIONS AND COORDINATE WITH ALL UTILITY OWNERS AS NEEDED.
- CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.

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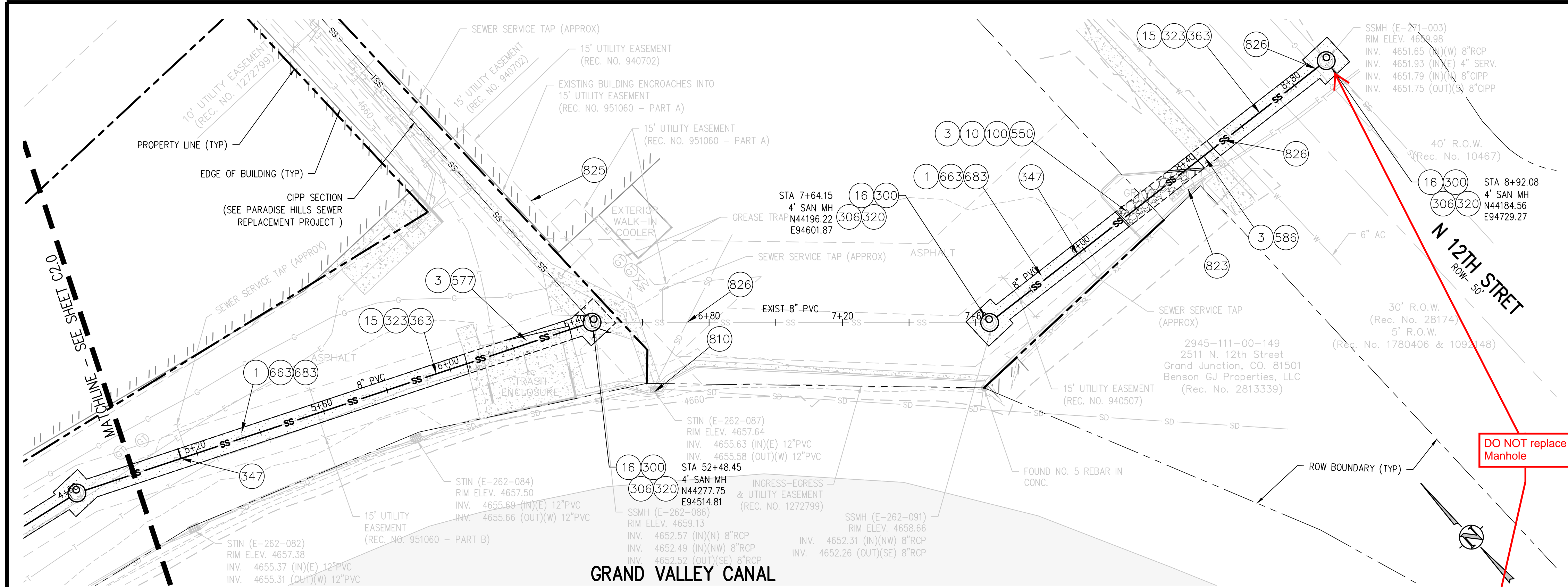
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APPROVED BY		DATE	

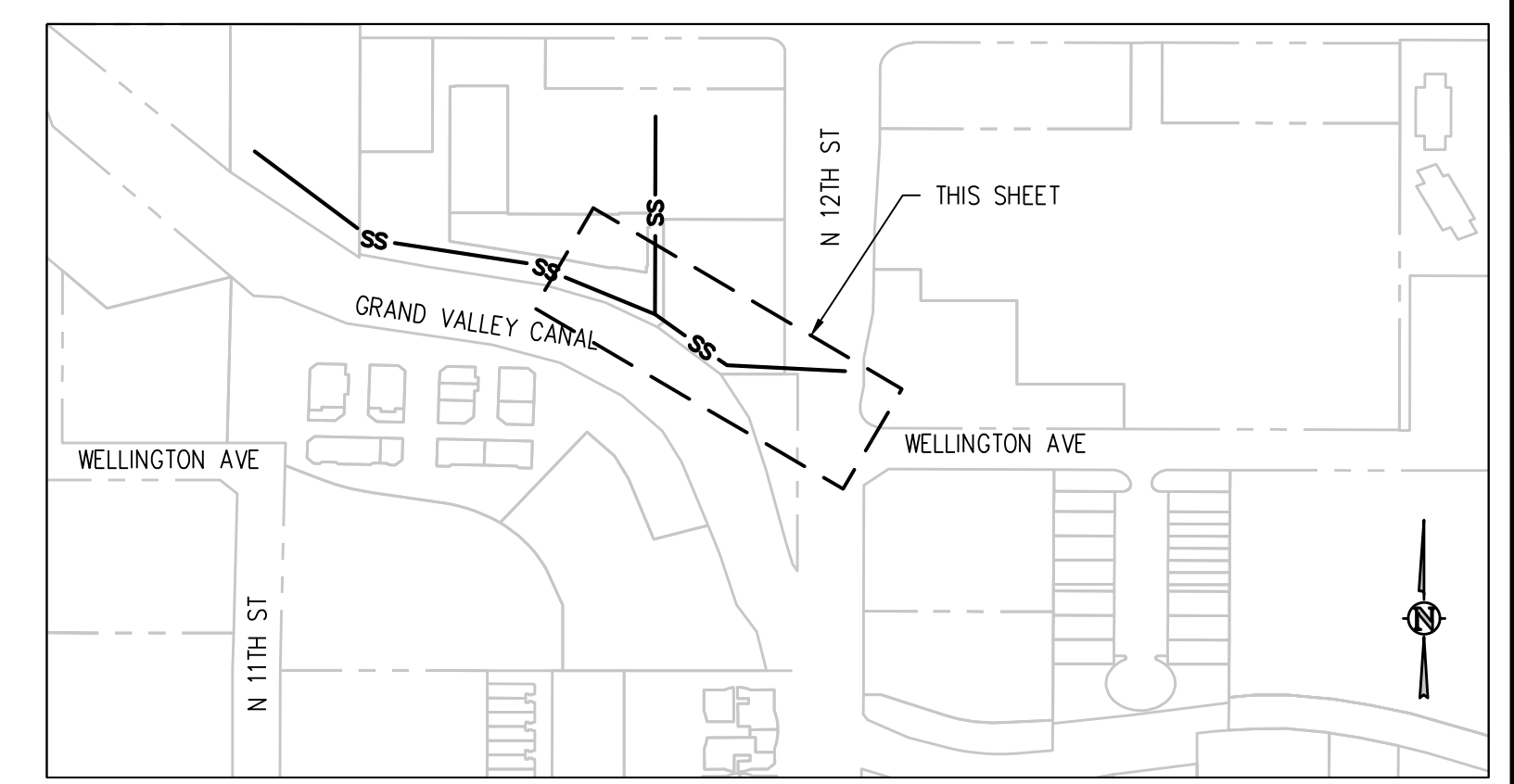


**12TH AND WELLINGTON AVE
SEWER REPLACEMENT
SANITARY SEWER PLAN AND PROFILE**

C2.0



**GRAND VALLEY CANAL
12TH AND WELLINGTON SANITARY SEWER PLAN**
SCALE: 1" = 20'

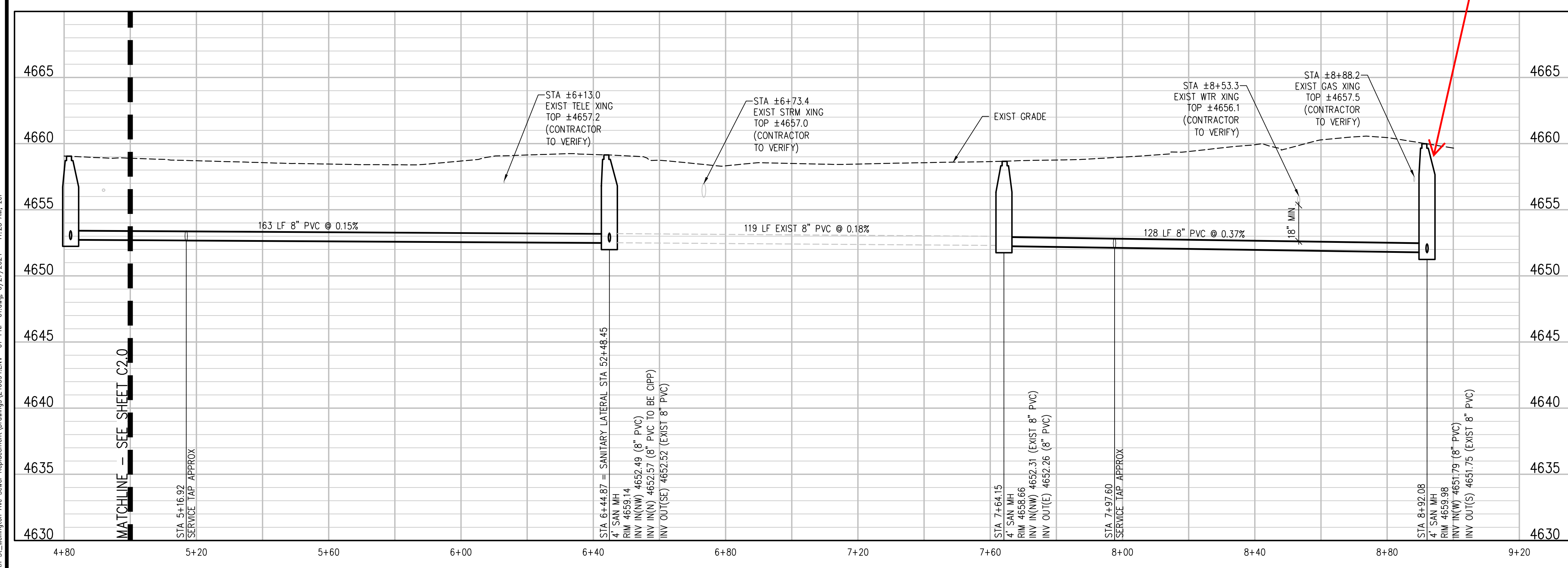


KEY MAP
NTS

CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (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.
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- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
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- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02). FIELD COAT MANHOLE INTERIOR WITH SYSTEM NO. 30 PER SECTION 09900 OF THE PROJECT MANUAL.
- 306 102.11/108.5 - MANHOLE BARREL SECTION (D>5") (48" I.D.)
- 320 102.11 - CONNECT MANHOLE TO EXISTING SANITARY SEWER (8" PIPE). CONTRACTOR SHALL USE A CAST-IN-PLACE BASE TO FORM INVERT AROUND THE EXISTING PIPE. "O" RING GASKETS OR OTHER WATER STOPS ARE TO BE PLACED AROUND THE INLET AND OUTLET PIPES TO ENSURE A WATER TIGHT SEAL IS PROVIDED AT THE MH BASE. CARE SHOULD BE TAKEN SO THAT THE EXISTING LINE DOES NOT SAG OR FLOAT DURING CONSTRUCTION OF THE BASE. THE TOP OF THE EXISTING PIPE SHALL BE CUT AND REMOVED TO PROVIDE FOR THE NEW INVERT IN. CONTRACTOR SHALL CONTROL SEWER FLOW AND NOT ALLOW DEBRIS TO ENTER THE PIPE.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 8" X 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
- 363 BYPASS PUMPING WILL BE REQUIRED FOR CONSTRUCTION.
- 550 608.06 - CONCRETE CURB (6" WIDE, 6" HIGH)
- 577 608.06 - CONCRETE DRIVEWAY SECTION (8" THICK) (COMMERCIAL)
- 586 608.06 - CONCRETE CURB RAMP
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 683 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (6" THICK) (GRADING SX, BINDER GRADE PG 64-22) (THREE 2" LIFTS)
- 810 PROTECT STORM DRAIN INLET.
- 823 PROTECT UTILITY POLE
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.

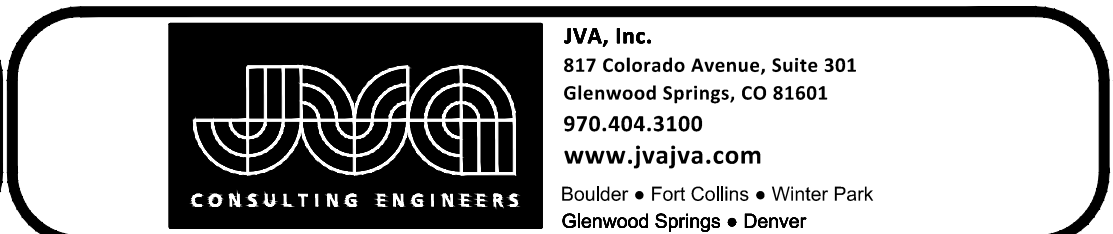
DO NOT replace Manhole



UTILITY NOTES:

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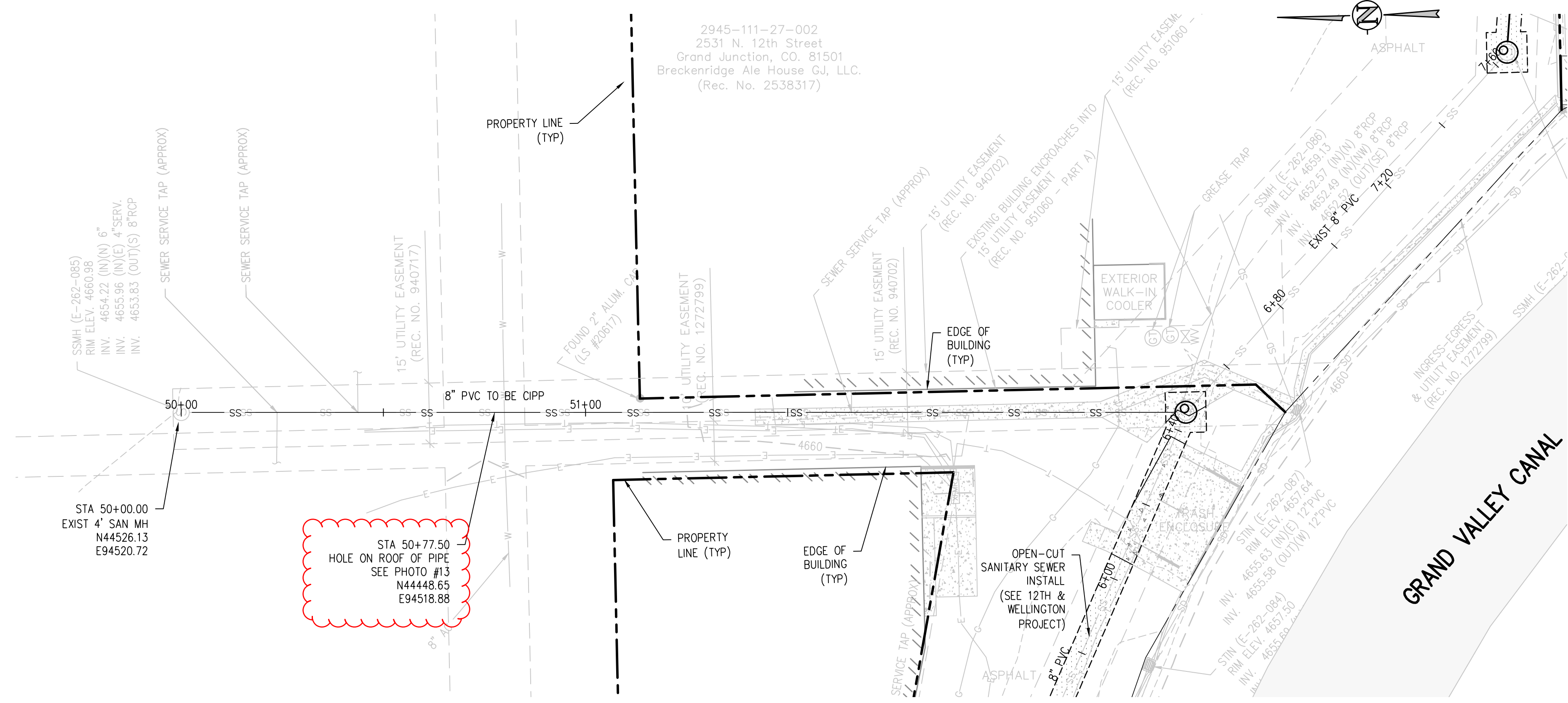
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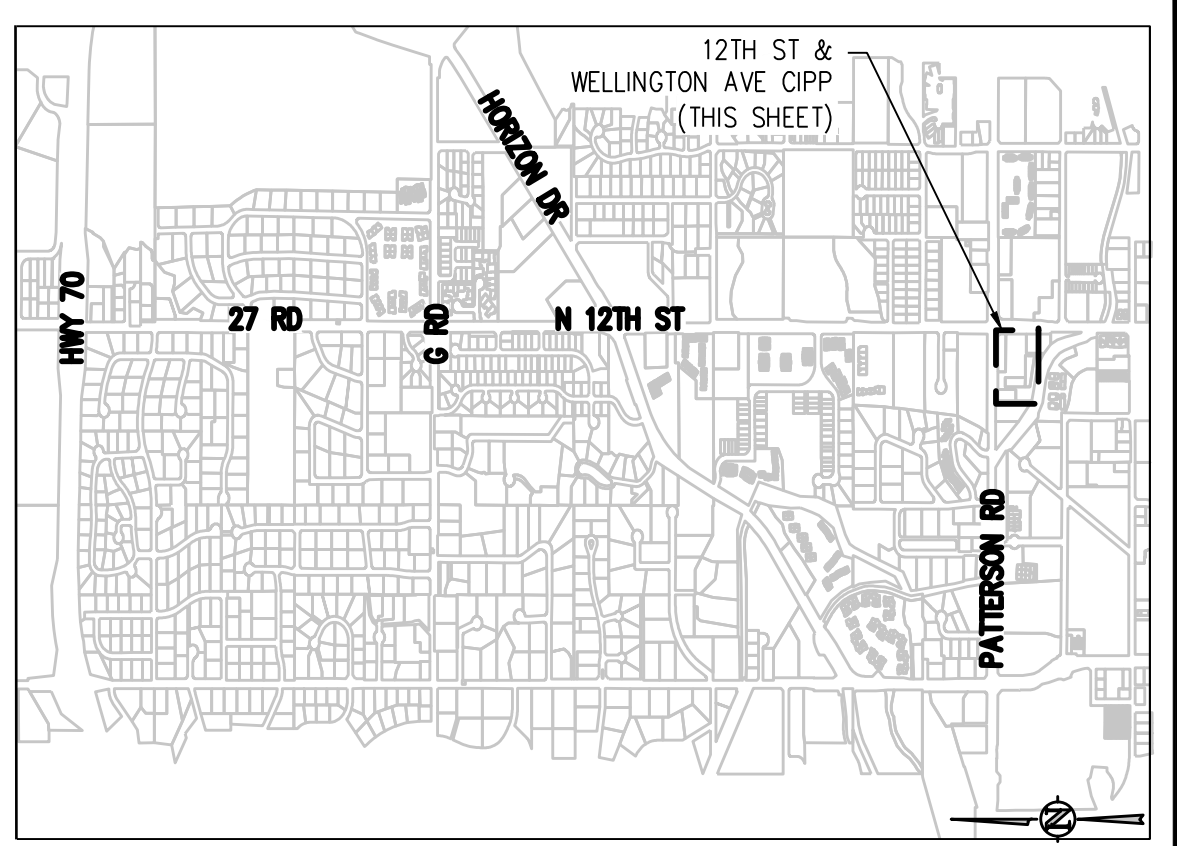
**12TH AND WELLINGTON AVE
SEWER REPLACEMENT
SANITARY SEWER PLAN AND PROFILE**

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12TH AND WELLINGTON SANITARY SEWER PLAN
SCALE: 1" = 20'



KEY MAP
NTS

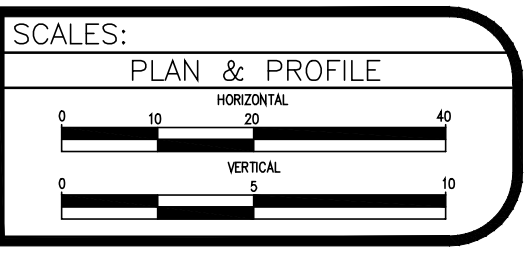


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DESIGNED BY	ZCF	DATE	
CHECKED BY	JJM	DATE	
APPROVED BY		DATE	



PARADISE HILLS
SANITARY SEWER CIPP
12TH ST & WELLINGTON AVE CIPP
PLAN AND PROFILE