

CITY OF GRAND JUNCTION

CROSBY AVENUE WATERLINE IMPROVEMENTS

GRAND JUNCTION, COLORADO

BID SET

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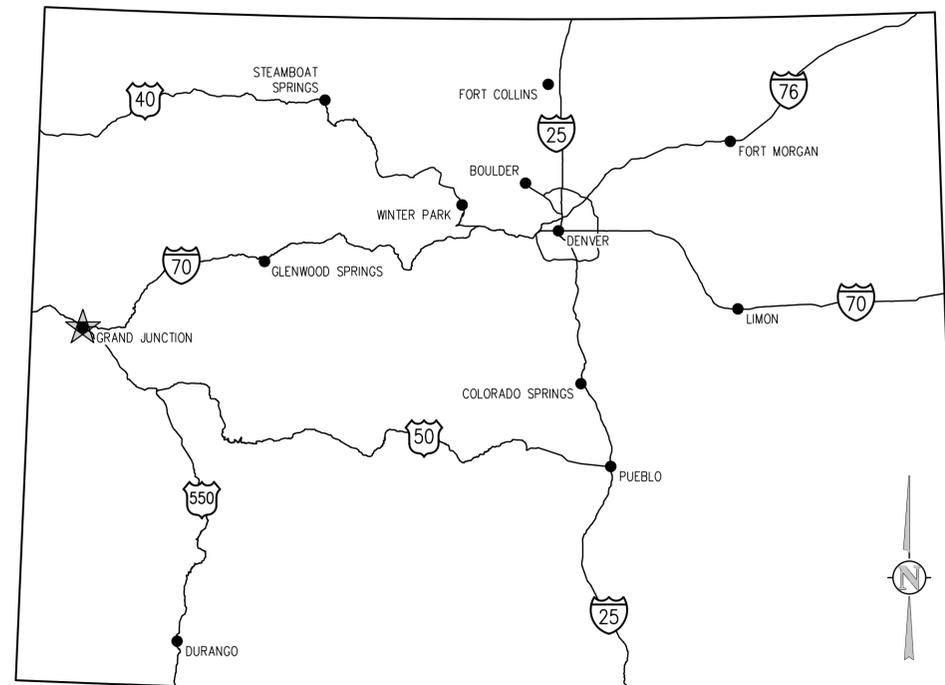
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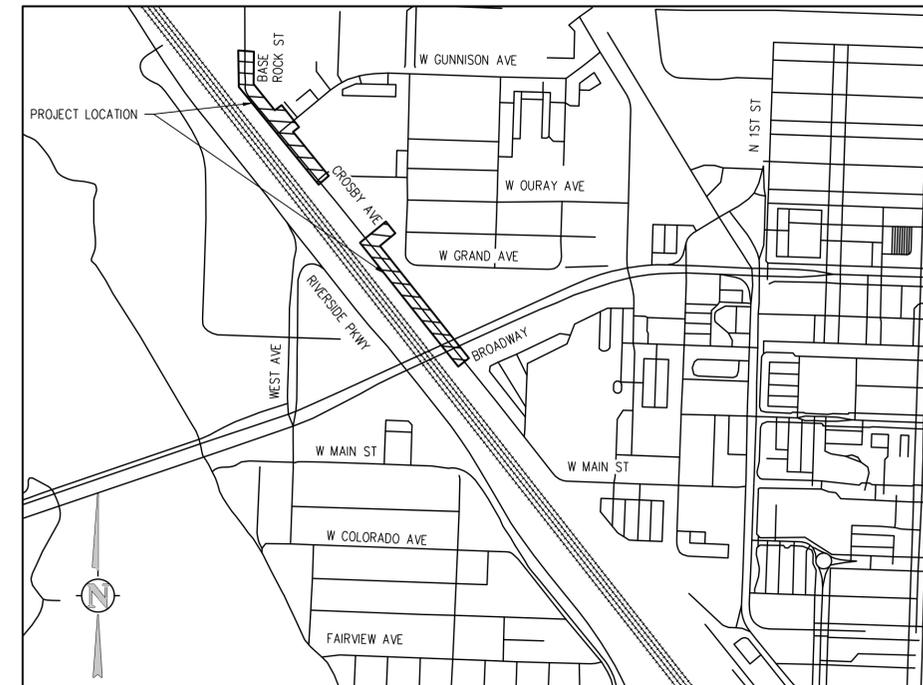
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PREPARED UNDER THE SUPERVISION OF

 JVA, Inc.



VICINITY MAP
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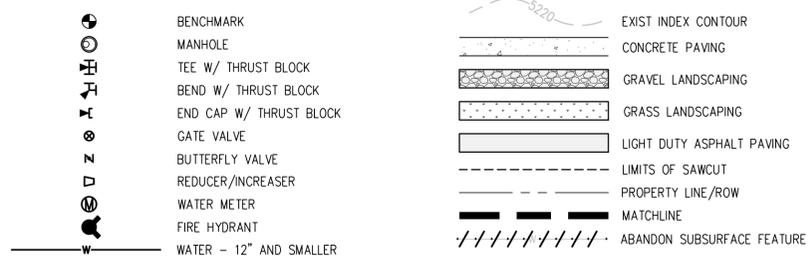


PROJECT LOCATION MAP
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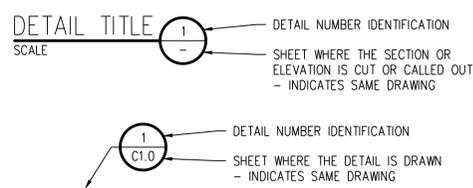
ABBREVIATIONS

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

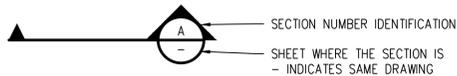
DESIGN LEGEND



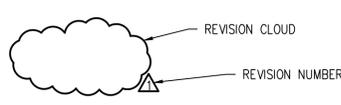
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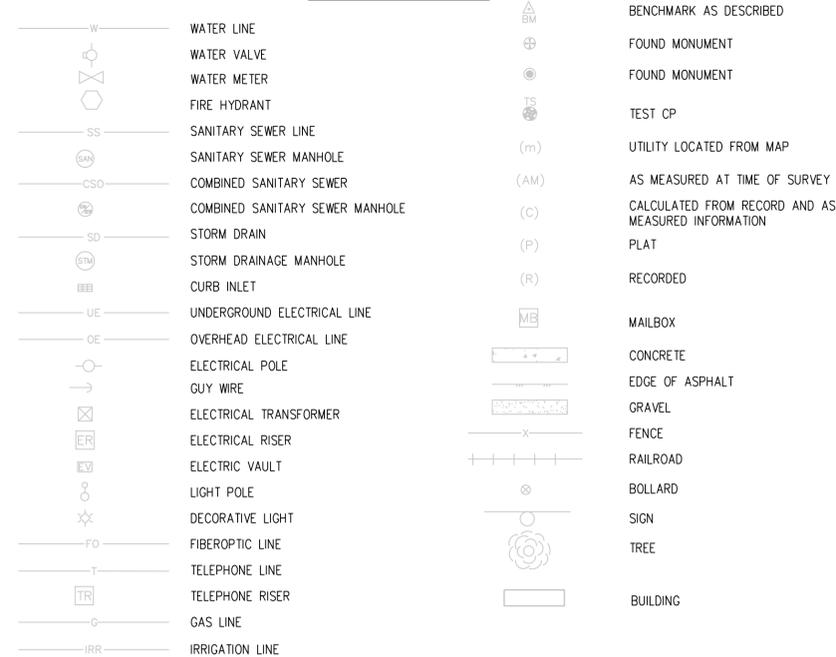
SECTION CALLOUT



DETAIL MARKER



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.UCCO.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 COMPLY 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 EROSION ON ADJUTING 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 REQUIRED TO PREVENT PONDING OR SLOPE NOT IN CONFORMANCE WITH MUNICIPAL STANDARDS. ALL FLATWORK MUST PREVENT PONDING 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 DRIFLINE OF TREES.
- SURVEY INFORMATION:
 - BENCHMARK INFORMATION: TOPOGRAPHIC INFORMATION WAS PROVIDED BY THE CITY OF GRAND JUNCTION SEE EXISTING CONDITIONS SURVEY CROSBY AVE IMPROVEMENTS DATED MARCH 6, 2024. PROJECT BENCHMARK ELEVATION: 4560.12 AT MFCP 2ALC GRAND JUNCTION THE DATUM IS NAVD 1988 PER SURVEY. COORDINATE AND VERIFY ALL VERTICAL AND HORIZONTAL DATA SHOWN IN SURVEY AND REPORT ANY IRREGULARITIES OR DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.
 - BASIS OF BEARINGS: BEARINGS ARE BASED ON THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 15, TOWNSHIP 1 SOUTH, RANGE 1 WEST, UTE MERIDIAN, MESA COUNTY, COLORADO N017°33'W, BASED ON MESA COUNTY LOCAL COORDINATES. THE NORTH END OF SAID LINE IS A 3.25 INCH ALUMINUM CAP L537904 2011 ON NUMBER 6 REBAR IN A MONUMENT BOX. 2.5 INCH ALUMINUM CAP L517495 2003 ON A NUMBER 6 REBAR IN A MONUMENT BOX.
 - HORIZONTAL CONTROL INFORMATION: HORIZONTAL CONTROL COORDINATES ARE BASED ON THE REFERENCED SURVEY AND ARE PROVIDED BY THE POINTS AS SHOWN ON THE PLANS:

CP-01	N36833.95	E88138.15	ELEV4560.14	MFCP 2ALC
CP-02	N35456.22	E89063.33	ELEV4577.94	MFCP 1.5 ALC HIGH DESERT
CP-03	N38159.91	E86812.45	ELEV4553.46	MFCP 2.5 ALC LANDSEIGN N4
 - 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.VSIT [HTTPS://WWW.FHWA.DOT.GOV/PROGRAMADMIN/SJEINDEX.CFM](https://www.fhwa.dot.gov/programadmin/sjeindex.cfm) FOR MORE INFORMATION.
- 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.



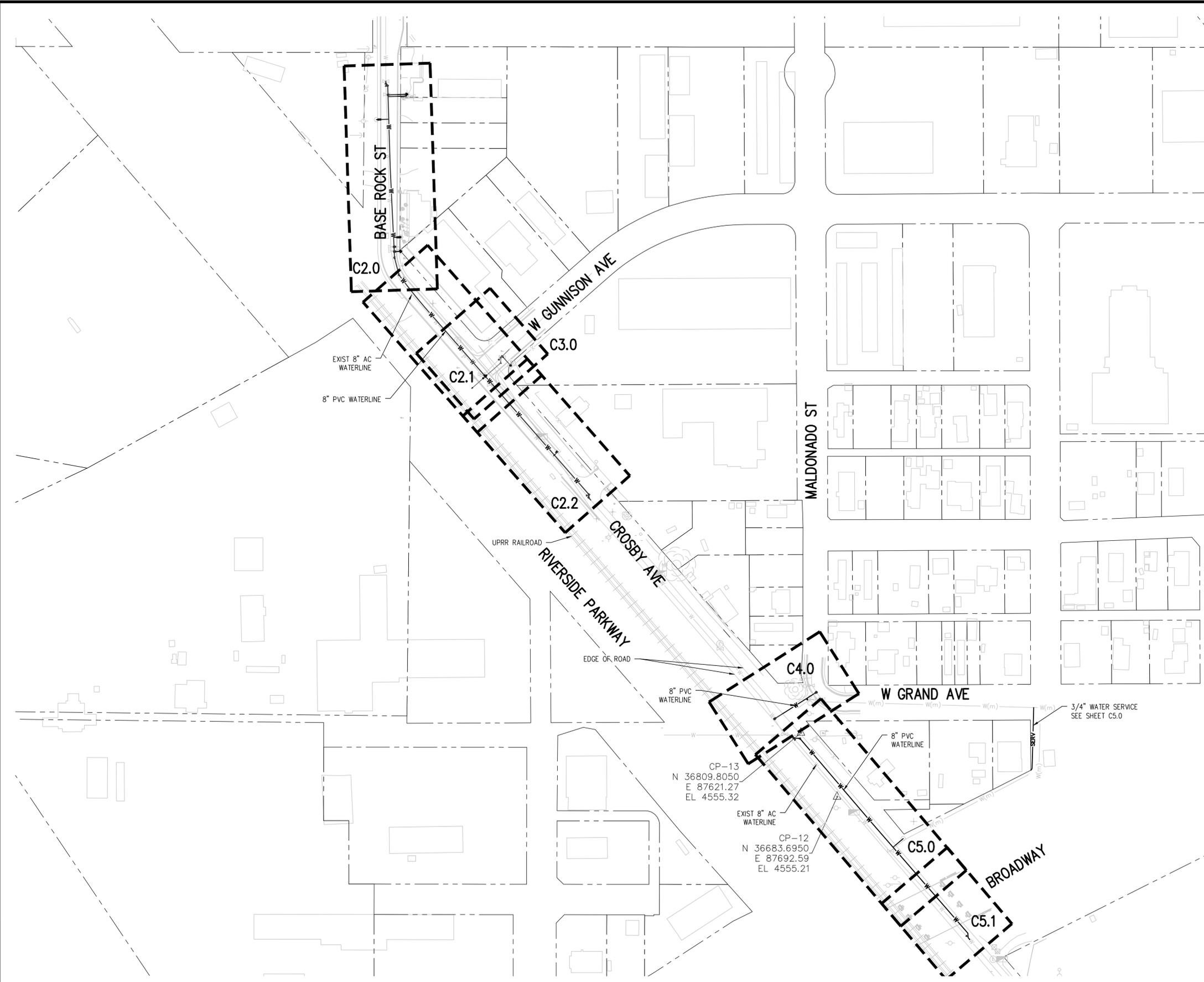
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REVISION Δ	DESCRIPTION	DATE	DRAWN BY <u>ZCF/NLM</u>	DATE	SCALES:
REVISION Δ			DESIGNED BY <u>ZCF/AMF</u>	DATE	PLAN & PROFILE
REVISION Δ			CHECKED BY <u>JJM</u>	DATE	
REVISION Δ			APPROVED BY _____	DATE	



CROSBY AVENUE WATERLINE IMPROVEMENTS
LEGEND, NOTES & ABBREVIATIONS

GO.1



CP-13
 N 36809.8050
 E 87621.27
 EL 4555.32

CP-12
 N 36683.6950
 E 87692.59
 EL 4555.21

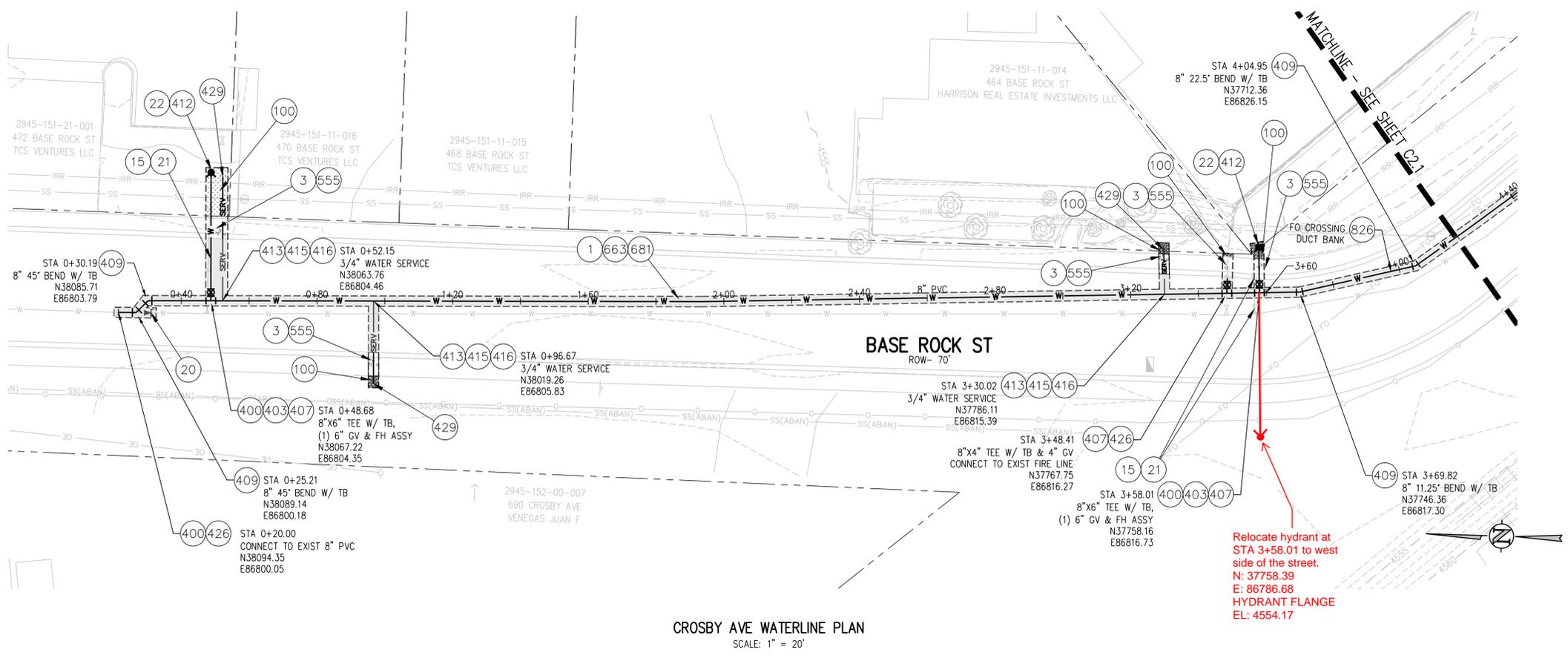


REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALES:
REVISION Δ			ZCF/NLM		PLAN & PROFILE
REVISION Δ			ZCF/AMF		HORIZONTAL 1" = 100'
REVISION Δ			JJM		
REVISION Δ					

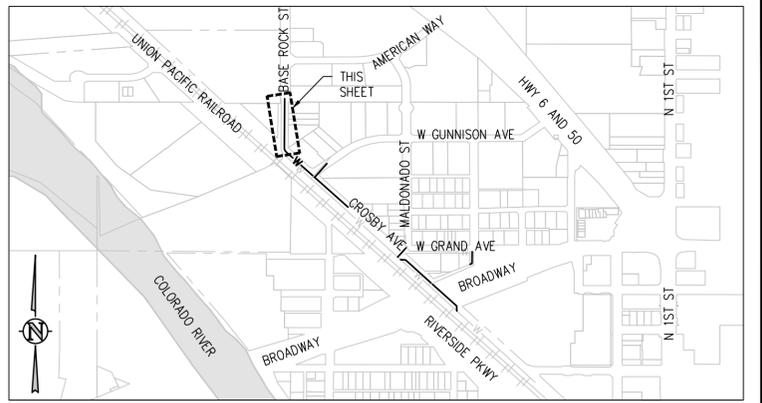


**CROSBY AVENUE WATERLINE
 IMPROVEMENTS
 OVERALL UTILITY PLAN**

C1.0



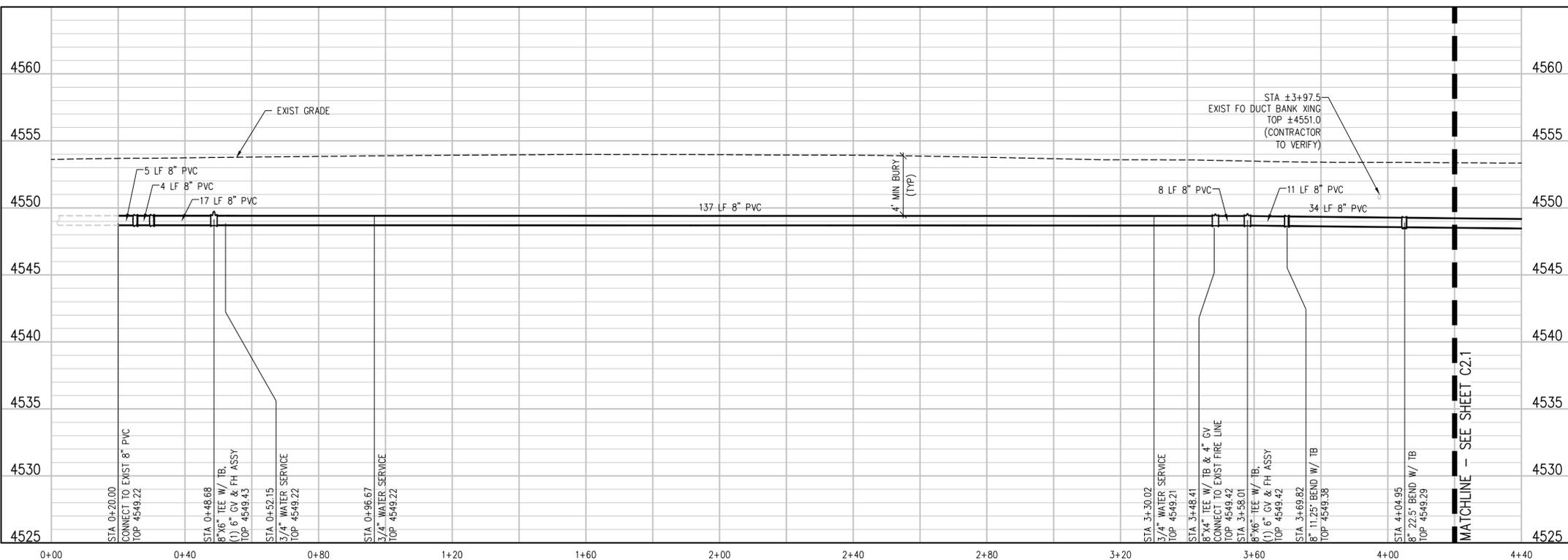
CROSBY AVE WATERLINE PLAN
SCALE: 1" = 20'



KEY MAP
NTS

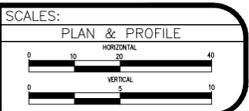
CONSTRUCTION NOTES

- 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.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 20 202 - ABANDON PIPE. CAP REMAINING ENDS.
- 21 202 - REMOVE EXISTING WATER VALVE.
- 22 202 - REMOVE EXISTING FIRE HYDRANT AND RETURN 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. ANY AND ALL ADDITIONAL MATERIALS ARE INCEDENTAL.
- 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
- 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
- 429 102.8J/108.4 - COMPRESSION BRASS COUPLING
- 555 608.06 - CONCRETE SIDEWALK (4" THICK)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.



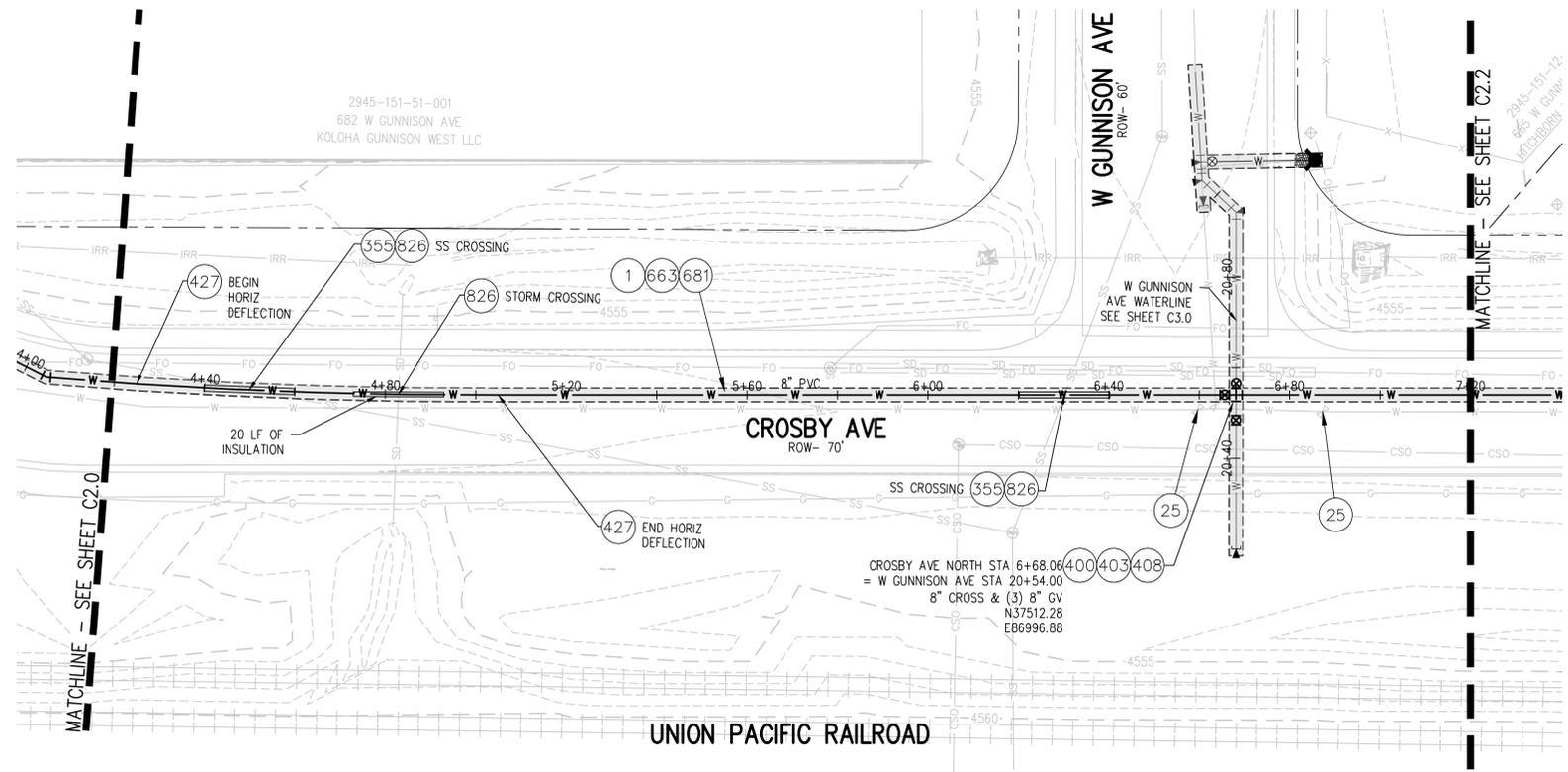
REVISION	DESCRIPTION	DATE

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

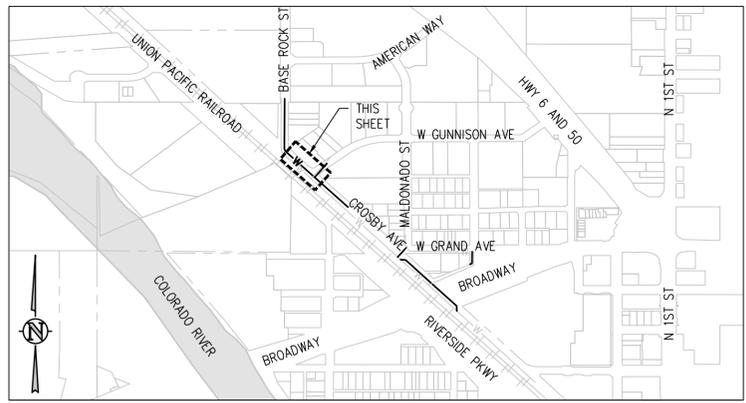


CROSBY AVENUE WATERLINE IMPROVEMENTS
CROSBY AVE WATERLINE PLAN AND PROFILE

C2.0



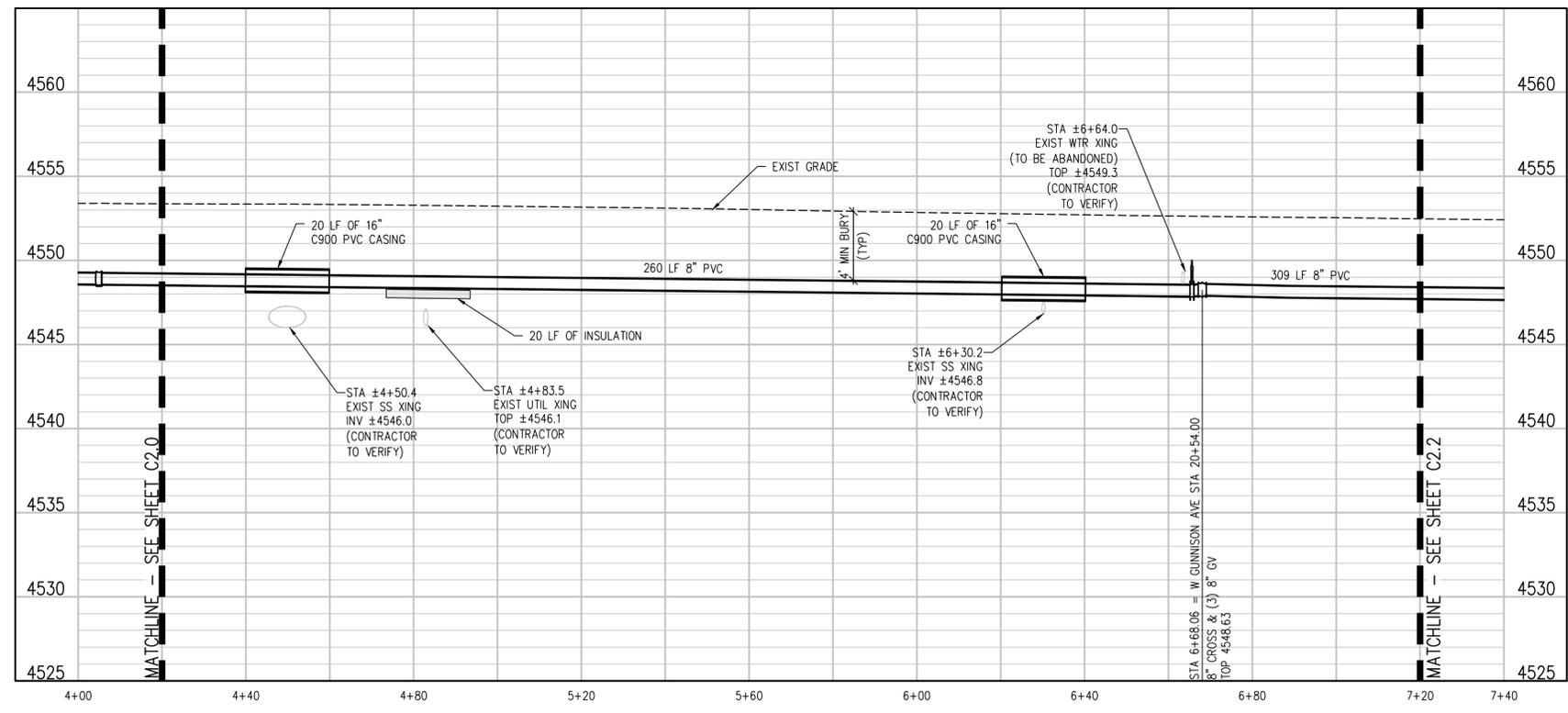
CROSBY AVE WATERLINE PLAN
SCALE: 1" = 20'



KEY MAP
NTS

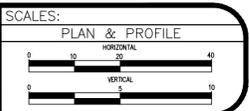
CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH TYPE A BEDDING.
- 355 IF THE NON-POTABLE PIPE CROSSES ABOVE OR LESS THAN 18 INCHES BELOW THE WATER MAIN, PROVIDE A PVC PIPE CASING EXTENDING NO LESS THAN 9 FEET EACH SIDE OF THE CROSSING WITH NO JOINTS. PROVIDE CARRIER PIPE SUPPORTS AND CASING PIPE END SEALS AS INDICATED IN STD. DETAIL GU-06.
- 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)
- 408 102.8/108.3 - CROSS (SIZE AS SHOWN).
- 427 DEFLECT PIPE AS SHOWN.
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.

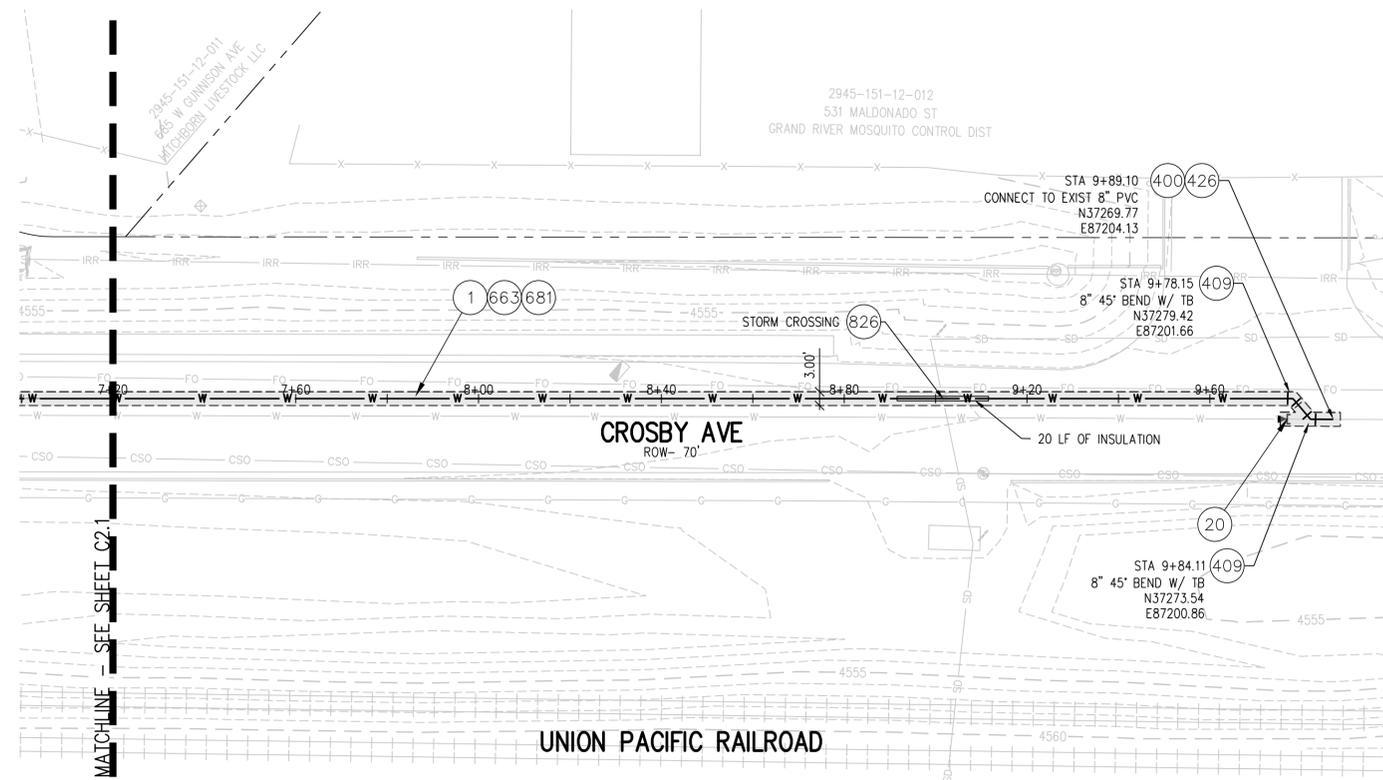


REVISION	DESCRIPTION	DATE

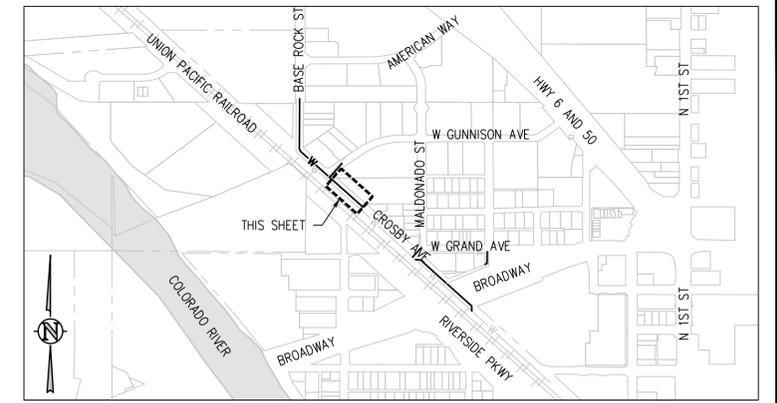
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DESIGNED BY	ZCF/AMF	DATE	
CHECKED BY	JJM	DATE	
APPROVED BY		DATE	



CROSBY AVENUE WATERLINE IMPROVEMENTS
CROSBY AVE WATERLINE PLAN AND PROFILE



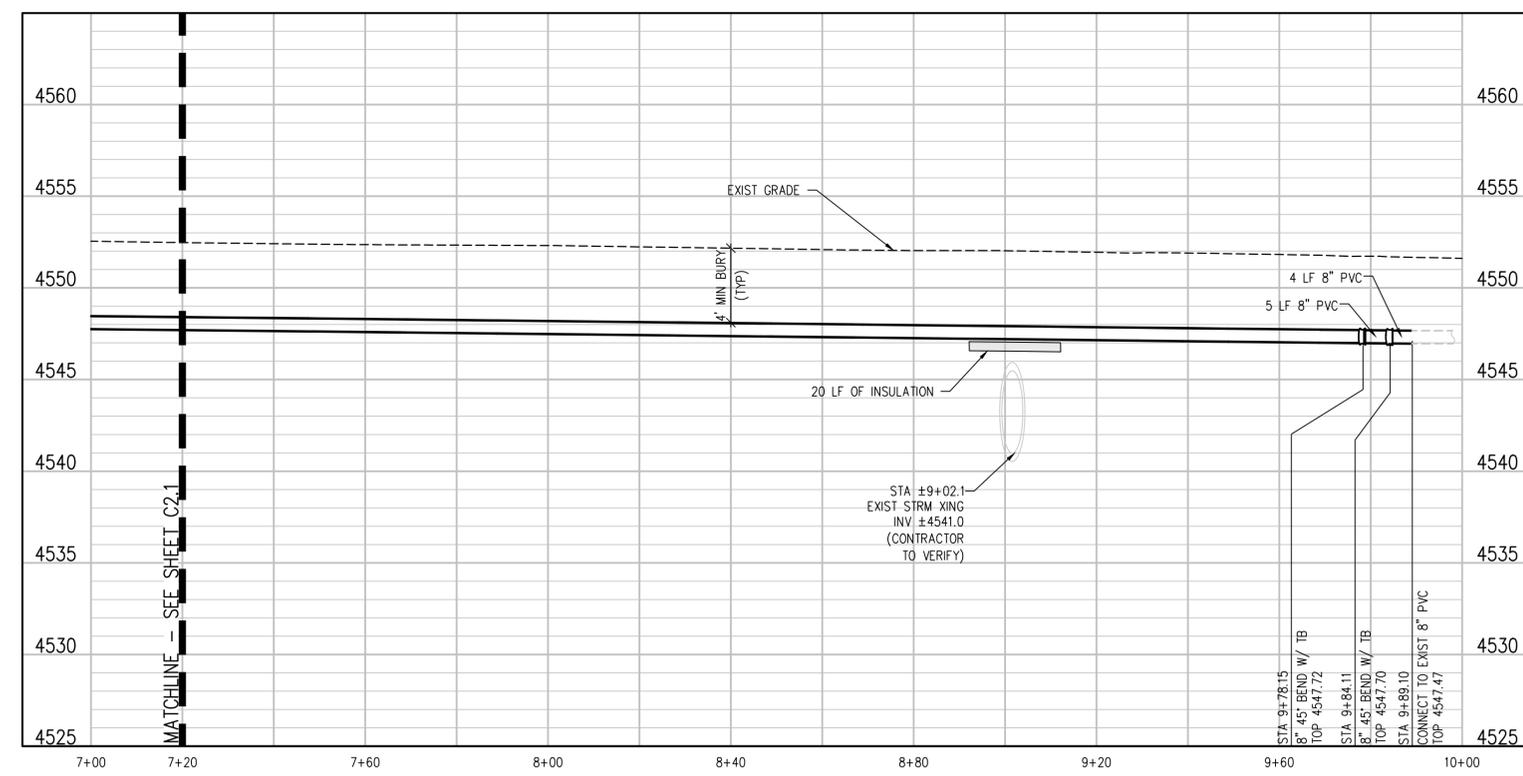
CROSBY AVE WATERLINE PLAN
SCALE: 1" = 20'



KEY MAP
NTS

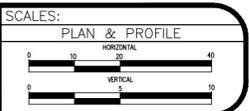
CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 20 202 - ABANDON PIPE. CAP REMAINING ENDS.
- 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.
- 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
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.

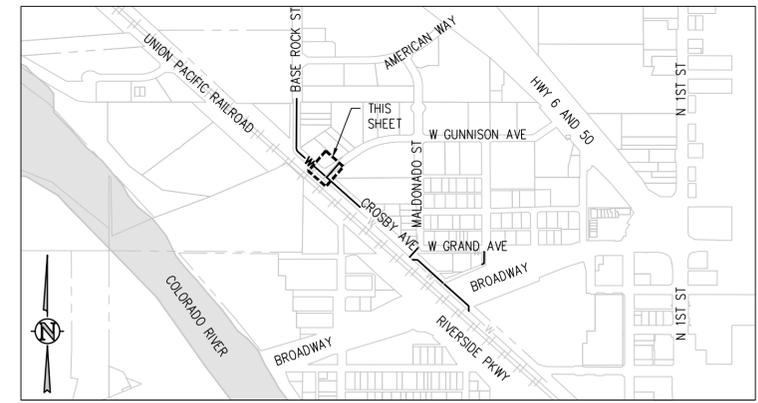
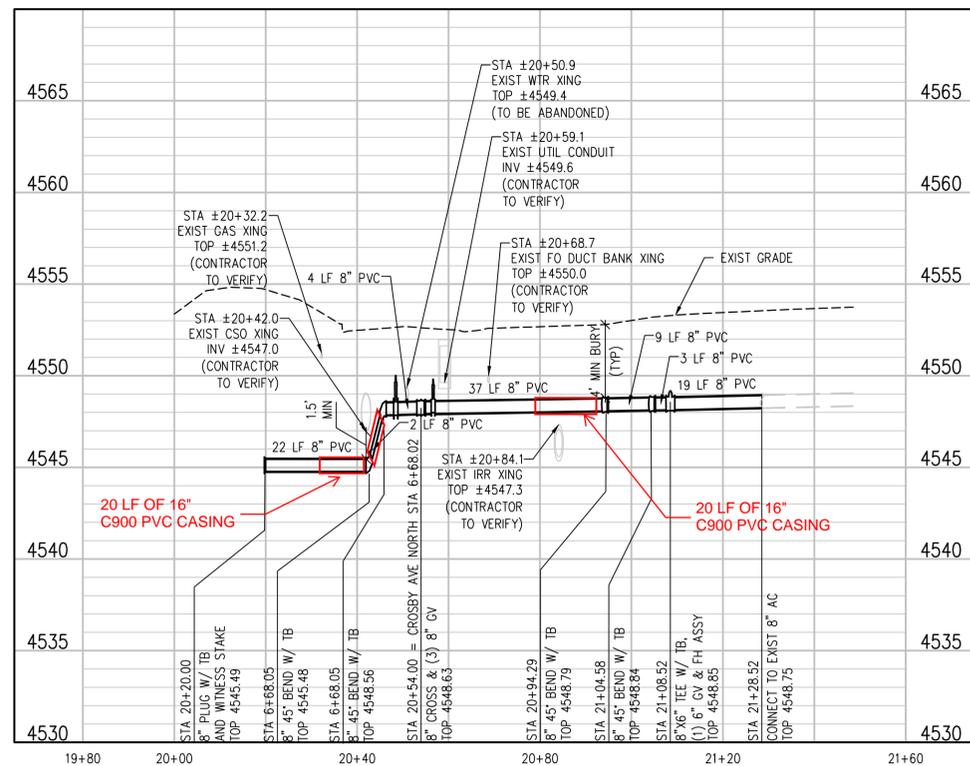
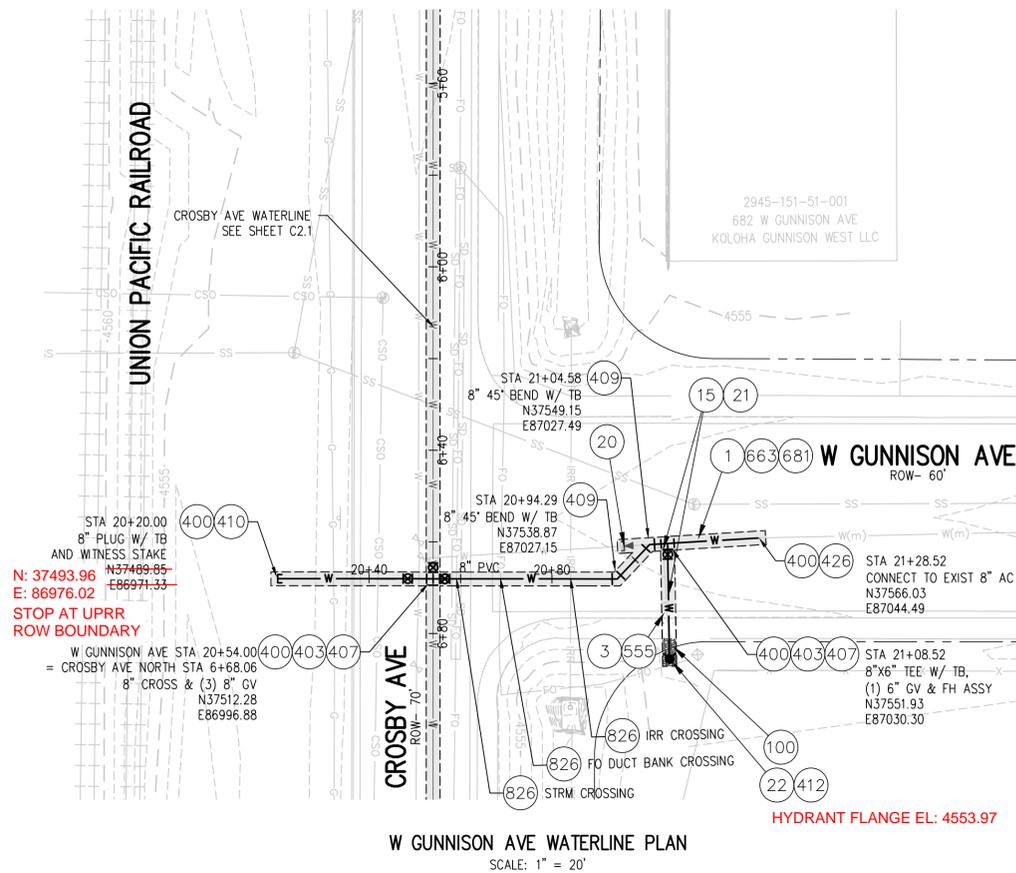


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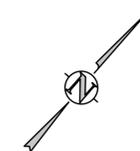


CROSBY AVENUE WATERLINE IMPROVEMENTS
CROSBY AVE WATERLINE PLAN AND PROFILE



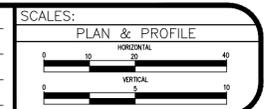
CONSTRUCTION NOTES

- 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.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 20 202 - ABANDON PIPE. CAP REMAINING ENDS.
- 21 202 - REMOVE EXISTING WATER VALVE.
- 22 202 - REMOVE EXISTING FIRE HYDRANT AND RETURN 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. ANY AND ALL ADDITIONAL MATERIALS ARE INCIDENTAL.
- 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)
- 410 102.8/108.3 - END CAP / PLUG (SIZE AS SHOWN).
- 412 102.8A/108.3 - FIRE HYDRANT
- 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)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.



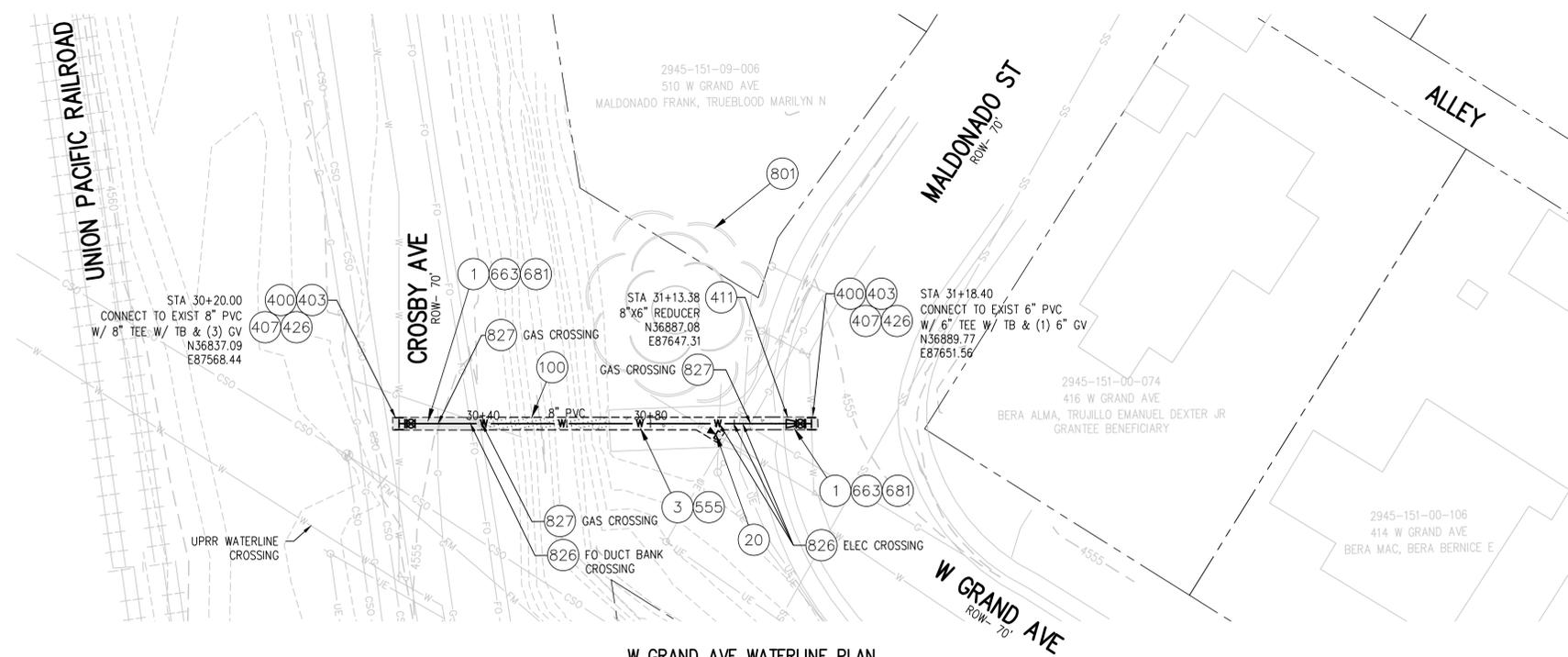
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DESIGNED BY	ZCF/AMF	DATE	
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APPROVED BY		DATE	

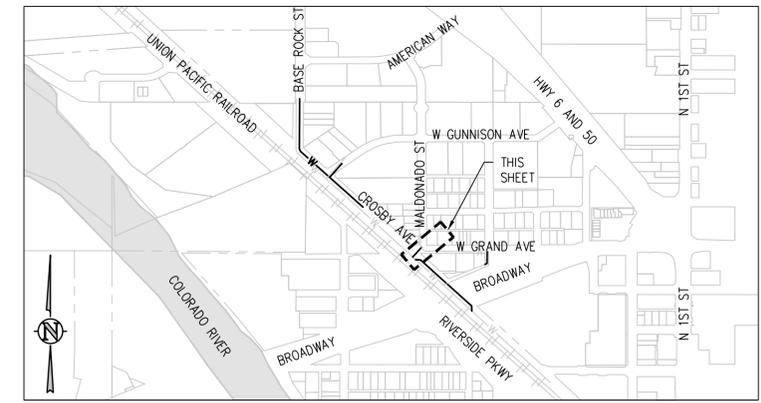


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CROSBY AVENUE WATERLINE IMPROVEMENTS
W GUNNISON AVE WATERLINE PLAN AND PROFILE



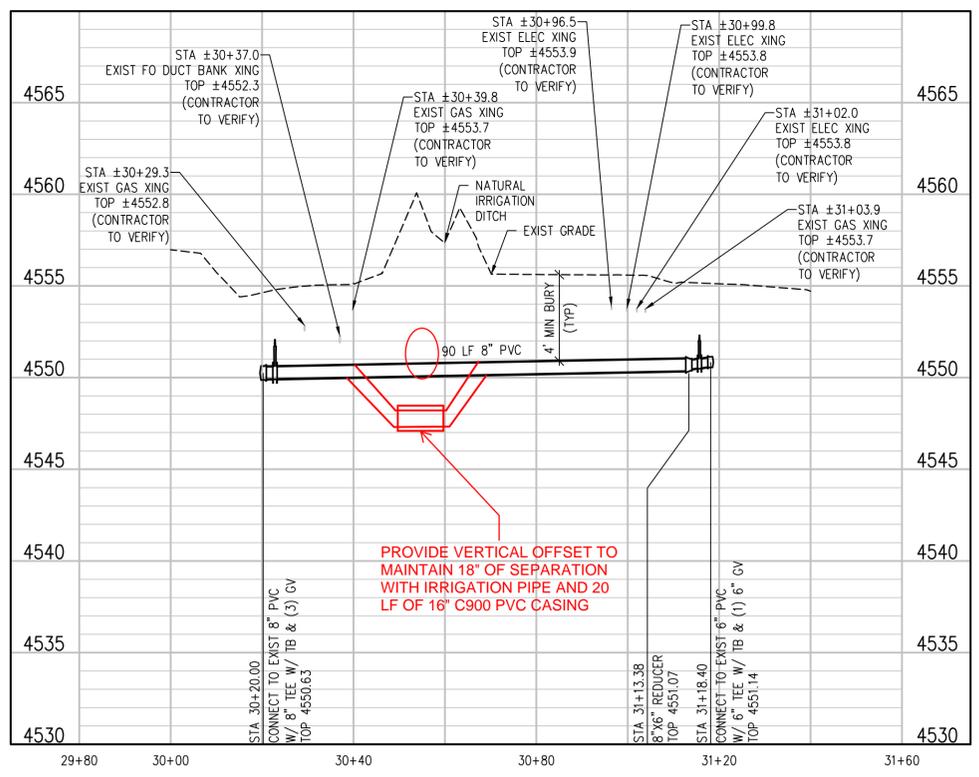
W GRAND AVE WATERLINE PLAN
SCALE: 1" = 20'



KEY MAP
NTS

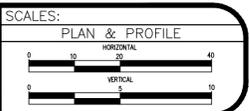
CONSTRUCTION NOTES

- 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.
- 20 202 - ABANDON PIPE. CAP REMAINING ENDS.
- 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.
- 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).
- 411 102.8/108.3 - REDUCER (SIZE 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)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 801 PROTECT TREE.
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- 827 PROTECT EXISTING GAS.

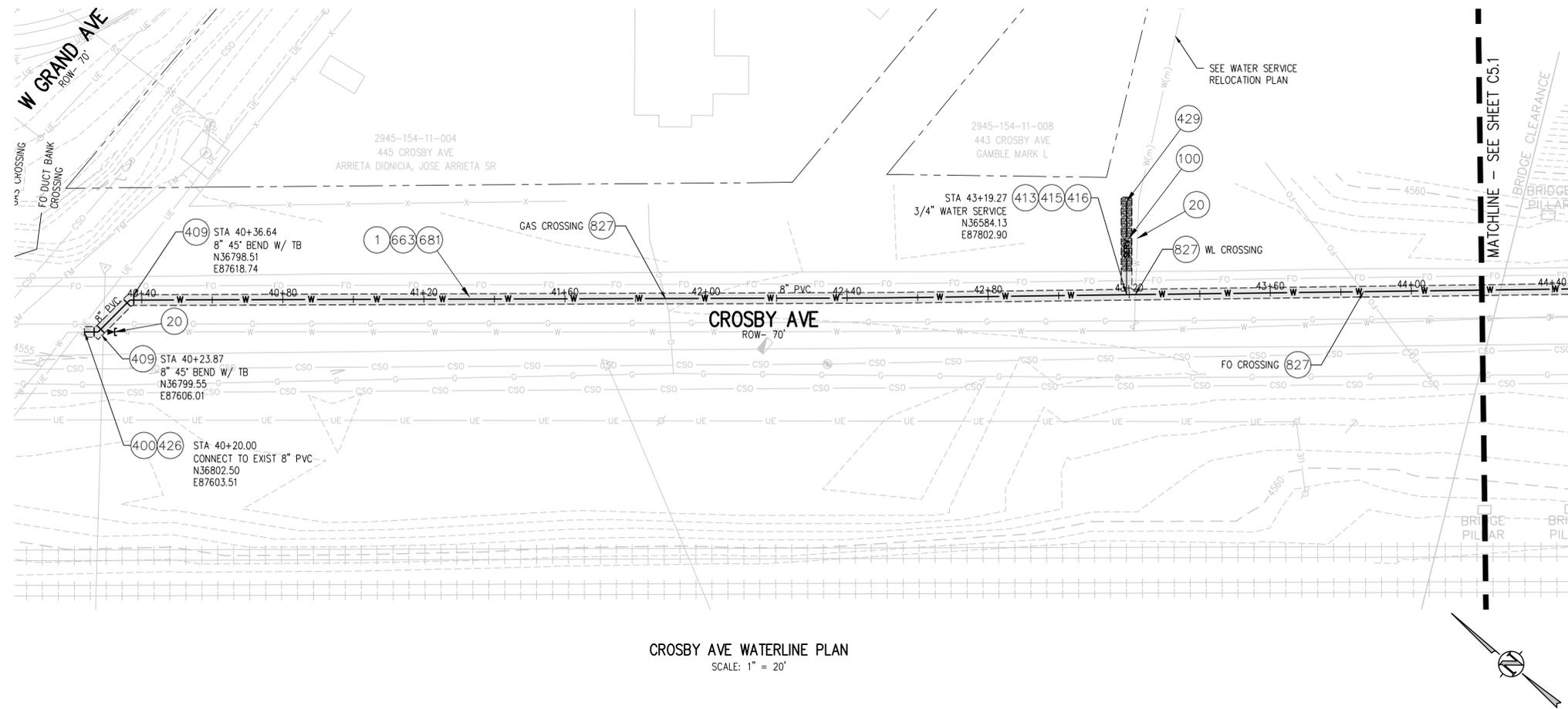


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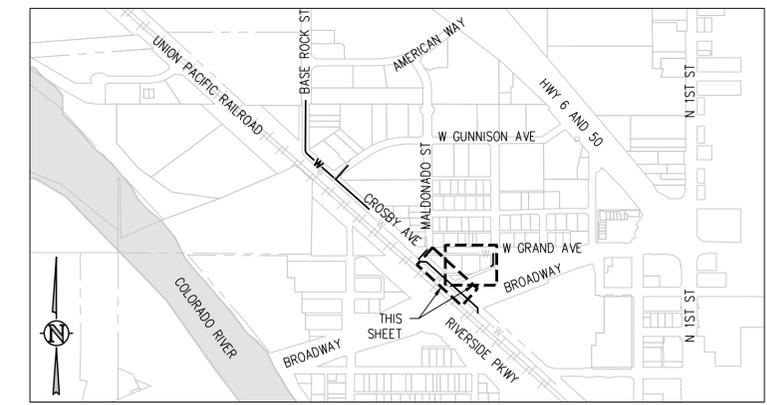
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CROSBY AVENUE WATERLINE IMPROVEMENTS
W GRAND AVE WATERLINE PLAN AND PROFILE



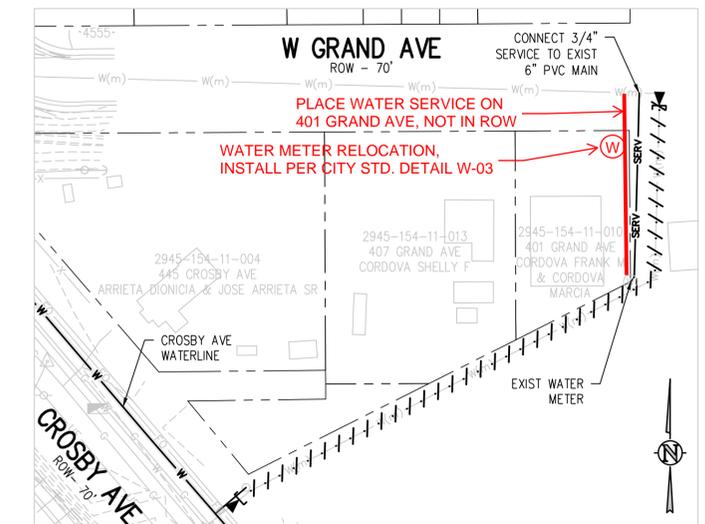
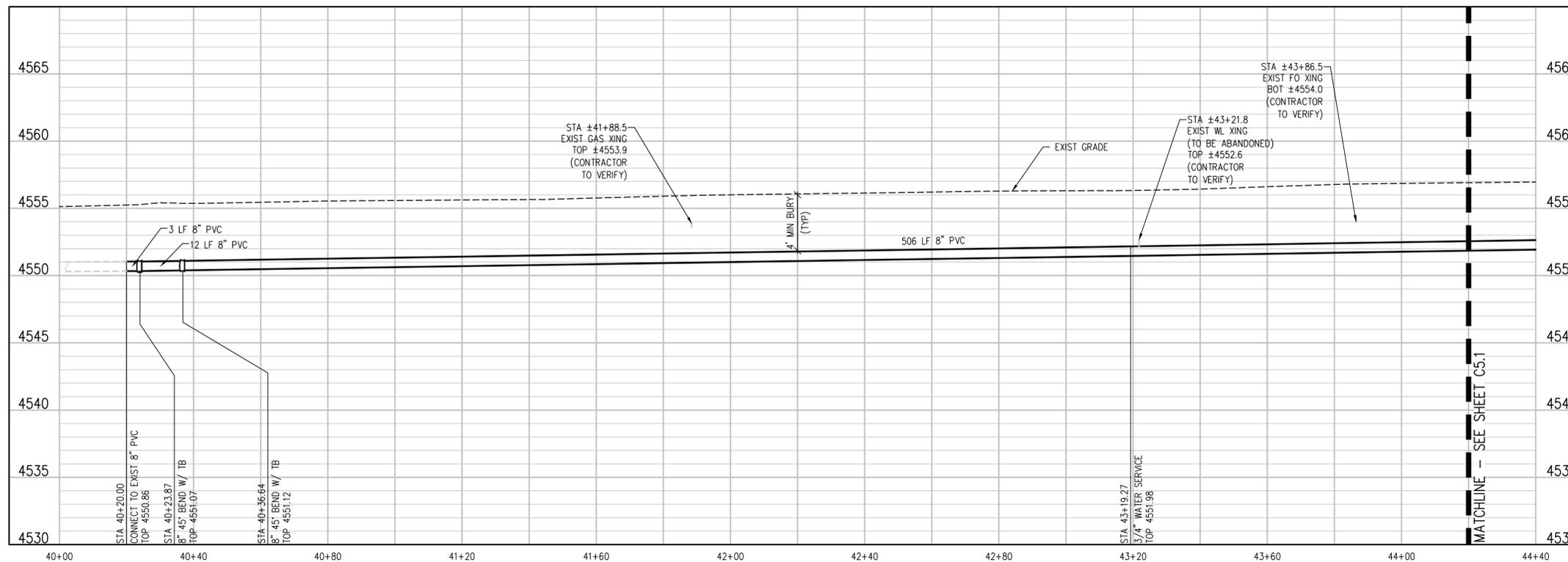
CROSBY AVE WATERLINE PLAN
SCALE: 1" = 20'



KEY MAP
NTS

CONSTRUCTION NOTES

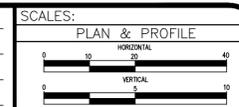
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 20 202 - ABANDON PIPE. CAP REMAINING ENDS.
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING. ANY AND ALL ADDITIONAL MATERIALS ARE INCIDENTAL.
- 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.
- 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
- 429 102.8J/108.4 - COMPRESSION BRASS COUPLING
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- 827 PROTECT EXISTING GAS.



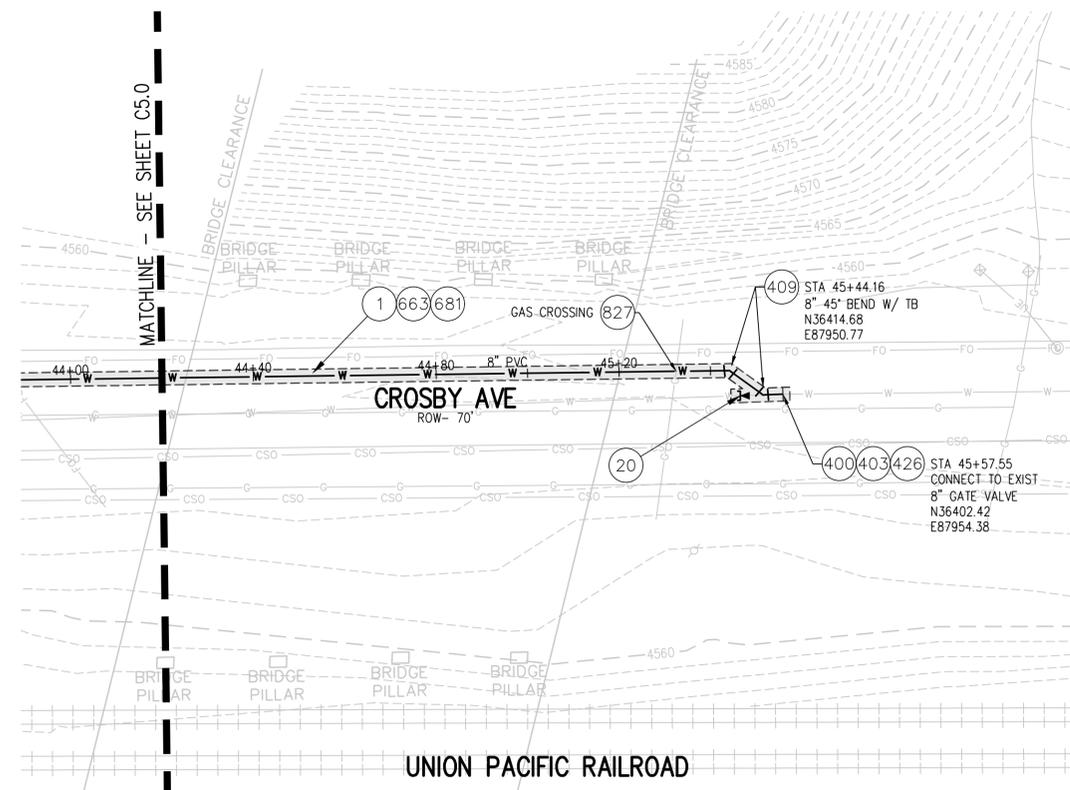
WATER SERVICE RELOCATION PLAN
SCALE: 1" = 60'

REVISION	DESCRIPTION	DATE

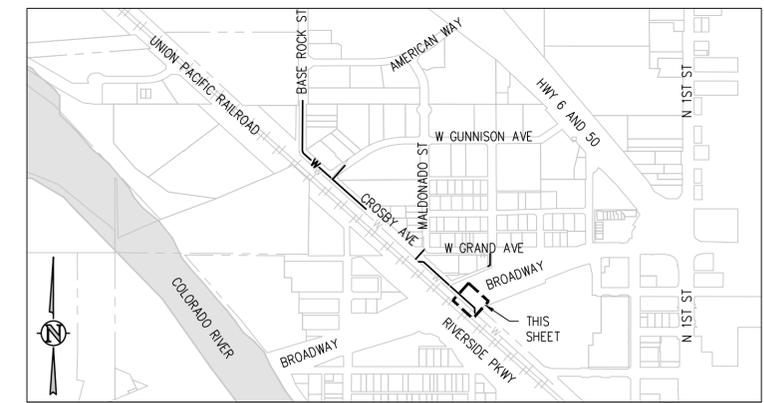
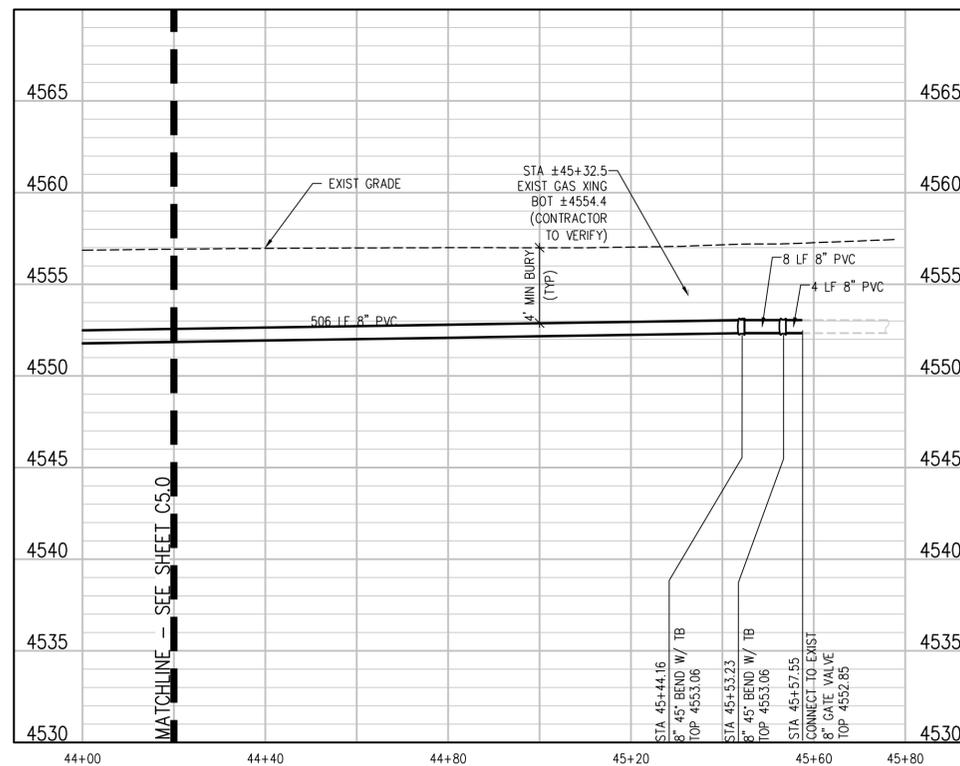
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CROSBY AVENUE WATERLINE IMPROVEMENTS
CROSBY AVE WATERLINE PLAN AND PROFILE



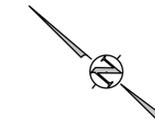
CROSBY AVE WATERLINE PLAN
SCALE: 1" = 20'



KEY MAP
NTS

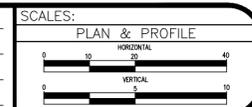
CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 20 202 - ABANDON PIPE. CAP REMAINING ENDS.
- 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)
- 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
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.



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CROSBY AVENUE WATERLINE
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