

GOVERNING SPECIFICATIONS

THE 2025 EDITION OF THE "IOWA STATEWIDE URBAN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS" INCLUDING SUPPLEMENTAL SPECIFICATIONS.

MUTCD 2024 AS ADOPTED BY IOWA DEPARTMENT OF TRANSPORTATION.

ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITHIN THE CONSTRUCTION OF THIS PROJECT.

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY IOWA ONE CALL 1-800-292-8989 OR 811

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."



RESOURCE LIST

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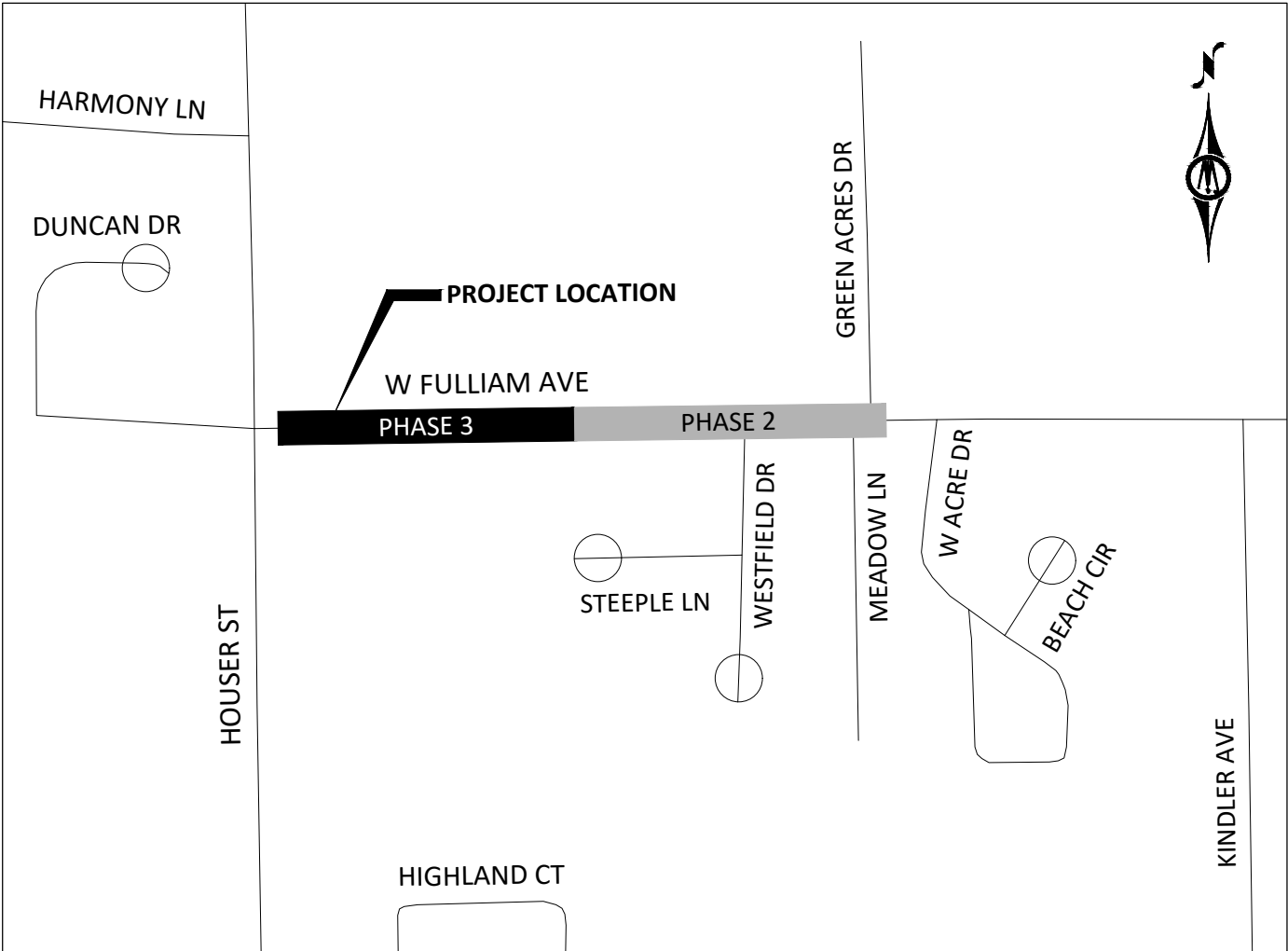
Windstream:
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Hiawatha, IA 52233
(319) 790-7510

CITY OF MUSCATINE, IOWA
CONSTRUCTION PLANS FOR

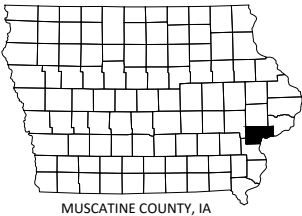
FULLIAM AVE RECONSTRUCTION - PHASE 3

CONTRACT NUMBER: 133022

LETTING DATE: MAY 1ST, 2025



MAP OF A PORTION OF THE
CITY OF MUSCATINE, IOWA
MUSCATINE COUNTY, IA



SHEET NUMBER	SHEET TITLE
A.01	TITLE SHEET
A.02	LEGEND
B.01	TYPICAL SECTIONS
C.01	ESTIMATED PROJECT QUANTITIES
C.02	ESTIMATE REFERENCE INFORMATION
C.03	TABULATIONS
D.01	PLAN & PROFILE - MAINLINE
D.02	PLAN & PROFILE - MAINLINE
G.01	REFERENCES & BENCHMARKS
H.01	EASEMENTS & RIGHT-OF-WAY
H.02	EASEMENTS & RIGHT-OF-WAY
J.01	STAGING & TRAFFIC CONTROL - NOTES & LEGEND
J.02	STAGING & TRAFFIC CONTROL - TEMPORARY SIGNAGE
J.03	STAGING & TRAFFIC CONTROL - LAYOUT
L.01	GEOMETRICS & JOINTING
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M.02	STORM SEWER - PLAN & PROFILE
Q.01	REMOVALS PLAN
R.01	EROSION & SEDIMENT CONTROL
R.02	EROSION & SEDIMENT CONTROL
W.01	MAINLINE CROSS-SECTIONS
W.02	MAINLINE CROSS-SECTIONS
THIS PLAN SET CONTAINS <u>23</u> SHEETS.	

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

Adrian L. Holmes

Adrian L. Holmes, P.E.

LICENSE NUMBER: #17935 DATE: March 12, 2025

MY LICENSE RENEWAL DATE IS 12/31/2025

PAGES OR SHEETS COVERED BY THIS SEAL:

ALL SHEETS

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CLIENT PROJ. NO.	133022						

CITY OF MUSCATINE, IOWA
FULLIAM AVE RECONSTRUCTION - PHASE 3

TITLE SHEET

SHEET

A.01

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EXISTING TOPOGRAPHIC SYMBOLS

	ACCESS GRATE		REGULATION STATION GAS
	AIR CONDITION UNIT		SATELLITE DISH
	ANTENNA		SIGN TRAFFIC
	AUTO SPRINKLER CONNECTION		SIGNAL CONTROL CABINET
	BARRICADE PERMANENT		SOIL BORING
	BASKETBALL POST		SIREN
	BENCH		TELEPHONE BOOTH
	BIRD FEEDER		TILE INLET
	BOLLARD		TILE OUTLET
	BUSH		TILE RISER
	CATCH BASIN RECTANGULAR CASTING		TRANSFORMER-ELECTRIC
	CATCH BASIN CIRCULAR CASTING		TREE-CONIFEROUS
	CURB STOP		TREE-DEAD
	CLEAN OUT		TREE-DECIDUOUS
	CULVERT END		TREE STUMP
	DRINKING FOUNTAIN		TRAFFIC ARM BARRIER
	DOWN SPOUT		TRAFFIC SIGNAL
	ELECTRIC CAR CHARGE STATION		TRASH CAN
	FILL PIPE		UTILITY MARKER
	FIRE HYDRANT		VALVE
	FLAG POLE		VALVE POST INDICATOR
	FLARED END / APRON		VALVE VAULT
	FUEL PUMP		VAULT
	GRILL		VENT PIPE
	GUY WIRE ANCHOR		WATER SPIGOT
	HANDHOLE		WELL
	HANDICAP SPACE		WETLAND DELINEATED MARKER
	IRRIGATION SPRINKLER HEAD		WETLAND
	IRRIGATION VALVE BOX		WET WELL
	LIFT STATION CONTROL PANEL		YARD HYDRANT
	LIFT STATION		
	LIGHT POLE		
	MAILBOX		
	MANHOLE-COMMUNICATION		
	MANHOLE-ELECTRIC		
	MANHOLE-GAS		
	MANHOLE-HEAT		
	MANHOLE-RECLAIMED WATER		
	MANHOLE-SANITARY SEWER		
	MANHOLE-STORM SEWER		
	MANHOLE-UTILITY		
	MANHOLE-WATER		
	METER		
	DRIVE-THRU MICROPHONE		
	PARKING METER		
	PAVEMENT MARKING		
	PEDESTAL-COMMUNICATION		
	PEDESTAL-ELECTRIC		
	PEDESTRIAN PUSH BUTTON		
	PICNIC TABLE		
	POLE-UTILITY		
	POST		
	RAILROAD SIGNAL POLE		

PROPOSED TOPOGRAPHIC SYMBOLS

	CLEANOUT
	MANHOLE
	LIFT STATION
	STORM SEWER CIRCULAR CASTING
	STORM SEWER RECTANGULAR CASTING
	STORM SEWER FLARED END / APRON
	STORM SEWER OUTLET STRUCTURE
	STORM SEWER OVERFLOW STRUCTURE
	CURB BOX
	FIRE HYDRANT
	WATER VALVE
	WATER REDUCER
	WATER BEND
	WATER TEE
	WATER CROSS
	WATER SLEEVE
	WATER CAP / PLUG
	RIP RAP
	DRAINAGE FLOW
	TRAFFIC SIGNS

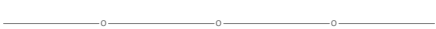
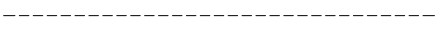
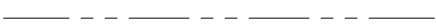
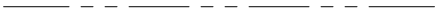
SURVEY SYMBOLS

	BENCHMARK LOCATION		CAST IRON MONUMENT
	CONTROL POINT		STONE MONUMENT
	MONUMENT FOUND		

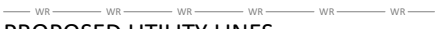
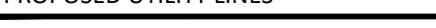
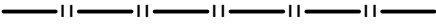
EXISTING TOPOGRAPHIC LINES

	RETAINING WALL
	FENCE
	FENCE-DECORATIVE
	GUARD RAIL
	TREE LINE
	BUSH LINE

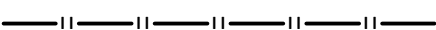
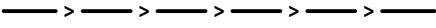
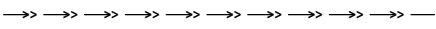
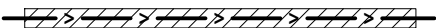
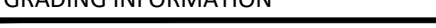
SURVEY LINES

	CONTROLLED ACCESS
	BOUNDARY
	CENTERLINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	EXISTING LOT LINE
	PROPOSED LOT LINE
	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	SETBACK LINE
	SECTION LINE
	QUARTER LINE
	SIXTEENTH LINE
	TEMPORARY EASEMENT

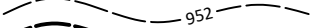
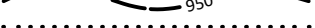
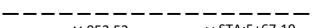
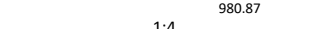
EXISTING UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE
	RECLAIMED WATER

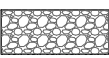
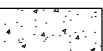
PROPOSED UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE
	PIPE CASING
	TRENCHLESS PIPE (PLAN VIEW)
	TRENCHLESS PIPE (PROFILE VIEW)

GRADING INFORMATION

	EXISTING CONTOUR MINOR
	EXISTING CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	PROPOSED GRADING LIMITS / SLOPE LIMITS
	PROJECT LIMITS
	PROPOSED SPOT ELEVATION
	RISE:RUN (SLOPE)

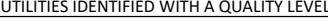
HATCH PATTERNS

	BITUMINOUS		GRAVEL
	CONCRETE		

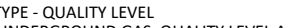
EXISTING PRIVATE UTILITY LINES

NOTE:
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THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINE FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES".

	UNDERGROUND FIBER OPTIC
	UNDERGROUND ELECTRIC
	UNDERGROUND GAS
	UNDERGROUND COMMUNICATION
	OVERHEAD ELECTRIC
	OVERHEAD COMMUNICATION
	OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL :

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL
EXAMPLE:  G-A  G-A UNDERGROUND GAS, QUALITY LEVEL A
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-22.

UTILITY QUALITY LEVELS:

QUALITY LEVEL D: PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. RECORDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, CONSTRUCTION PLANS, ETC.

QUALITY LEVEL C: INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

QUALITY LEVEL B: INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND COLLECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

QUALITY LEVEL A: PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POTHOLING UTILITIES AS WELL AS ACTIVITIES IN QUALITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND PROFILE INFORMATION.

ABBREVIATIONS

A	ALGEBRAIC DIFFERENCE	GRAV	GRAVEL	RSC	RIGID STEEL CONDUIT
ADJ	ADJUST	GU	GUTTER	RT	RIGHT
ALT	ALTERNATE	GV	GATE VALVE	SAN	SANITARY SEWER
B-B	BACK TO BACK	HDPE	HIGH DENSITY POLYETHYLENE	SCH	SCHEDULE
BIT	BITUMINOUS	HH	HANDHOLE	SERV	SERVICE
BLDG	BUILDING	HP	HIGH POINT	SHLD	SHOULDER
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STA	STATION
BR	BEGIN RADIUS	HYD	HYDRANT	STD	STANDARD
BV	BUTTERFLY VALVE	I	INVERT	STM	STORM SEWER
CB	CATCH BASIN	K	CURVE COEFFICIENT	TC	TOP OF CURB
C&G	CURB AND GUTTER	L	LENGTH	TE	TEMPORARY EASEMENT
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TEMP	TEMPORARY
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TNH	TOP NUT HYDRANT
CL	CENTER LINE	LT	LEFT	TP	TOP OF PIPE
CL	CLASS	MAX	MAXIMUM	TYP	TYPICAL
CLVT	CULVERT	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VERT	VERTICAL
C.O.	CHANGE ORDER	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
COMM	COMMUNICATION	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
CON	CONCRETE	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CSP	CORRUGATED STEEL PIPE	NTS	NOT TO SCALE	WM	WATERMAIN
DIA	DIAMETER	NWL	NORMAL WATER LEVEL		
DIP	DUCTILE IRON PIPE	OHW	ORDINARY HIGH WATER LEVEL		
DWY	DRIVEWAY	PC	POINT OF CURVE	AC	ACRES
E	EXTERNAL CURVE DISTANCE	PCC	POINT OF COMPOUND CURVE	CF	CUBIC FEET
ELEC	ELECTRIC	PE	PERMANENT EASEMENT	CV	COMPACTED VOLUME
ELEV	ELEVATION	PED	PEDESTRIAN, PEDESTAL	CY	CUBIC YARD
EOF	EMERGENCY OVERFLOW	PERF	PERFORATED PIPE	EA	EACH
ER	END RADIUS	PERM	PERMANENT	EV	EXCAVATED VOLUME
ESMT	EASEMENT	PI	POINT OF INTERSECTION	LB	POUND
EX	EXISTING	PL	PROPERTY LINE	LF	LINEAR FEET
FES	FLARED END SECTION	PRC	POINT OF REVERSE CURVE	LS	LUMP SUM
F-F	FACE TO FACE	PT	POINT OF TANGENT	LV	LOOSE VOLUME
FF	FINISHED FLOOR	PVC	POLYVINYL CHLORIDE PIPE	SF	SQUARE FEET
F&I	FURNISH AND INSTALL	PVMT	PAVEMENT	SV	STOCKPILE VOLUME
FM	FORCEMAIN	R	RADIUS	SY	SQUARE YARD
FO	FIBER OPTIC	R/W	RIGHT-OF-WAY		
F.O.	FIELD ORDER	RCP	REINFORCED CONCRETE PIPE		
GRAN	GRANULAR	RET	RETAINING		



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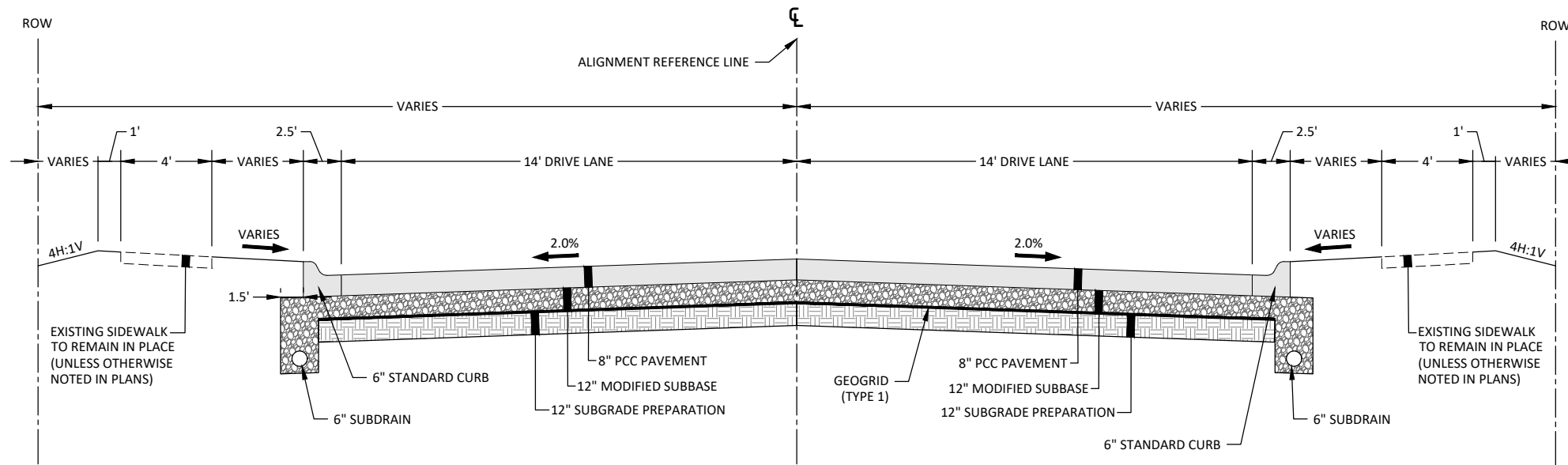
CITY OF MUSCATINE, IOWA

FULLIAM AVE RECONSTRUCTION - PHASE 3

LEGEND

SHEET

A.02



1
B.01 PROPOSED FULLIAM AVE NOT TO SCALE

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CITY OF MUSCATINE, IOWA
FULLIAM AVE RECONSTRUCTION - PHASE 3

TYPICAL SECTIONS

SHEET

B.01

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	ESTIMATED PROJECT QUANTITIES				
ITEM NO.	ITEM CODE	ITEM	UNIT	QUANTITY	AS BUILT QUANT.
1	2010-C	CLEARING AND GRUBBING	LS	1	
2	2010-D-1	TOPSOIL, ON-SITE	CY	175	
3	2010-D-3	TOPSOIL, OFF-SITE	CY	75	
4	2010-E	EXCAVATION, CLASS 10	CY	776	
5	2010-G	SUBGRADE PREPARATION	SY	2902	
6	2010-I	SUBGRADE TREATMENT, GEOGRID, TYPE 1	SY	2902	
7	2010-J	SUBBASE, MODIFIED, 12-INCH	SY	2902	
8	2010-M	SUBGRADE COMPACTION TESTING	LS	1	
9	4020-A-1	STORM SEWER, TRENCHED, RCP, 15-INCH	LF	108	
10	4020-A-1	STORM SEWER, TRENCHED, RCP, 18-INCH	LF	345	
11	4020-D	REMOVAL OF STORM SEWER, LESS THAN OR EQUAL TO 36-INCH DIA.	LF	52	
12	4040-A	SUBDRAIN, CASE B, TYPE 1, 6-INCH	LF	858	
13	4040-C	SUBDRAIN CLEANOUT, TYPE B	EA	2	
14	4040-D-1	SUBDRAIN OUTLETS AND CONNECTIONS, 6-INCH	EA	8	
15	5010-D	WATER SERVICE STUB, TRENCHED, COPPER, 3/4-INCH	EA	5	
16	5020-F	VALVE BOX ADJUSTMENT, MINOR	EA	1	
17	5020-I	FIRE HYDRANT ADJUSTMENT	EA	1	
18	6010-A	STORM MANHOLE, SW-401, 48-INCH	EA	1	
19	6010-B	INTAKE, SW-507	EA	1	
20	6010-B	INTAKE, MODIFIED SW-509	EA	1	
21	6010-B	INTAKE, SW-509	EA	4	
22	6010-E-1	MANHOLE ADJUSTMENT, MINOR	EA	1	
23	6010-H	REMOVE INTAKE	EA	2	
24	7010-A	PAVEMENT, PCC, 8-INCH	SY	2588	
25	7010-I	PCC PAVEMENT SAMPLES AND TESTING	LS	1	
26	7030-A-1	REMOVAL OF SIDEWALK	SY	145	
27	7030-A-3	REMOVAL OF DRIVEWAY	SY	293	
28	7030-E	SIDEWALK, PCC, 5-INCH	SY	141	
29	7030-H-1	DRIVEWAY, PAVED, PCC, 6-INCH	SY	304	
30	7040-H	PAVEMENT REMOVAL	SY	2605	
31	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1	
32	8040-I	REMOVE AND REINSTALL TRAFFIC SIGNS	EA	2	
33	9020-A	SOD	SY	1022	
34	9040-D-1	FILTER SOCK, COMPOST, 12-INCH	LF	1157	
35	9040-D-2	FILTER SOCKS, REMOVAL	LF	1157	
36	9040-T-1	INLET PROTECTION DEVICE	EA	6	
37	9040-T-2	INLET PROTECTION DEVICE, MAINTENANCE	EA	18	
38	11010-A	CONSTRUCTION SURVEY	LS	1	
39	11020-A	MOBILIZATION	LS	1	
40	11030-A	MAINTENANCE OF POSTAL SERVICE	LS	1	
41	11030-B	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1	
42	11050-A	CONCRETE WASHOUT	LS	1	



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DESIGNED	RCK	NO.	ISSUED FOR	DATE
DRAWN	RCK	0	BID	3/13/2025
CHECKED	ALH			
CLIENT PROJ. NO.	133022			

CITY OF MUSCATINE, IOWA
FULLIAM AVE RECONSTRUCTION - PHASE 3
ESTIMATED PROJECT QUANTITIES

SHEET

C.01

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MUSCATINE, IOWA 52401 133022 CADD SHEET 11/13/2025 1:31:21 PM

ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	DESCRIPTION
1	2010-C	CLEARING AND GRUBBING ITEM INCLUDES REMOVAL OF ALL VEGETATIVE MATERIALS WITHIN THE PROJECT LIMITS. AREAS OF REMOVAL ARE SHOWN, BUT NOT LIMITED TO THOSE NOTED ON THE 'Q' SHEETS. PRESERVE ALL TREES NOT MARKED FOR REMOVAL. ITEM INCLUDES SALVAGING OF PRIVATE LANDSCAPING MATERIALS WITHIN THE PROJECT LIMITS TO PROPERTY OWNERS, COST INCIDENTAL.
2	2010-D-1	TOPSOIL, ON-SITE QUANTITY OF ON-SITE TOPSOIL IS BASED ON STRIPPING 6-INCH DEPTH.
3	2010-D-3	TOPSOIL, OFF-SITE TOPSOIL SHALL BE PLACED AT ALL LOCATIONS TO BE SODDED AT A MINIMUM DEPTH OF 8 INCHES. REFER TO 'R' SHEETS FOR LOCATIONS. ITEM SHALL BE USED TO SUPPLEMENT ON-SITE TOPSOIL AS DIRECTED BY THE ENGINEER.
4	2010-E	EXCAVATION, CLASS 10 ESTIMATED RAW CUT VOLUME = 775.98 CY ESTIMATED RAW FILL VOLUME = 126.2 CY MISCELLANEOUS ITEMS CALLED OUT ON THE 'Q' SHEETS FOR REMOVAL WHICH DO NOT HAVE THEIR OWN BID ITEM SHALL BE INCIDENTAL TO THIS ITEM.
5	2010-G	SUBGRADE PREPARATION SEE 'B' SHEETS FOR TYPICAL SECTIONS.
6	2010-I	SUBGRADE TREATMENT, GEOGRID, TYPE 1 SEE 'B' SHEETS FOR TYPICAL SECTIONS. ITEM IS FOR GEOGRID PLACED BETWEEN ROADWAY SUBBASE AND SUBGRADE.
7	2010-J	SUBBASE, MODIFIED, 12-INCH REFER TO TYPICAL SECTIONS ON 'B' SHEETS.
8	2010-M	SUBGRADE COMPACTION TESTING THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION TESTING. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY HIRED BY THE CONTRACTOR AND APPROVED BY OWNER AND ENGINEER.
9	4020-A-1	STORM SEWER, TRENCHED, RCP, 15-INCH REFER TO 'M' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION. INSTALL WITH R-2 BEDDING. BACKFILL WITH CLASS I MATERIAL EXCEPT WITHIN 10 FEET OF WATER MAIN CROSSOVER WHERE BACKFILL MATERIAL SHALL BE LOW PERMEABILITY SOIL. INSTALL PIPE WITH GASKETED JOINTS WITHIN 10 FEET OF WATER MAIN CROSSOVER. PROVIDE NON-GASKETED FABRIC WRAPPED JOINTS ELSEWHERE. BEDDING AND BACKFILL SHALL BE INCIDENTAL TO THIS ITEM. DISPOSAL OF EXCAVATED TRENCH MATERIAL SHALL BE INCIDENTAL. SUITABLE MATERIAL MAY BE USED ON SITE AS FILL.
10	4020-A-1	STORM SEWER, TRENCHED, RCP, 18-INCH REFER TO 'M' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION. INSTALL WITH R-2 BEDDING. BACKFILL WITH CLASS I MATERIAL EXCEPT WITHIN 10 FEET OF WATER MAIN CROSSOVER WHERE BACKFILL MATERIAL SHALL BE LOW PERMEABILITY SOIL. INSTALL PIPE WITH GASKETED JOINTS WITHIN 10 FEET OF WATER MAIN CROSSOVER. PROVIDE NON-GASKETED FABRIC WRAPPED JOINTS ELSEWHERE. BEDDING AND BACKFILL SHALL BE INCIDENTAL TO THIS ITEM. DISPOSAL OF EXCAVATED TRENCH MATERIAL SHALL BE INCIDENTAL. SUITABLE MATERIAL MAY BE USED ON SITE AS FILL.
11	4020-D	REMOVAL OF STORM SEWER, LESS THAN OR EQUAL TO 36-INCH DIA. SEE 'Q' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION.
12	4040-A	SUBDRAIN, CASE B, TYPE 1, 6-INCH REFER TO 'M' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION.
13	4040-C	SUBDRAIN CLEANOUT, TYPE B REFER TO 'M' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION.
14	4040-D-1	SUBDRAIN OUTLETS AND CONNECTIONS, 6-INCH REFER TO 'M' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION.
15	5010-D	WATER SERVICE STUB, TRENCHED, COPPER, 3/4-INCH THIS ITEM IS FOR REPLACEMENT OF WATER SERVICES IN CONFLICT WITH NEW STORM SEWER. ALL SERVICES SHALL BE TYPE K, SOFT ANNEALED, SEAMLESS COPPER. CONNECTIONS TO EXISTING SERVICE LINES WHERE REQUIRED SHALL BE 3-PIECE COMPRESSION TYPE, MUELLER 110 CONDUCTIVE COMPRESSION CONNECTION. REFER TO 'M' SHEETS FOR LOCATIONS. REMOVAL OF EXISTING WATER SERVICE SHALL BE INCIDENTAL.
16	5020-F	VALVE BOX ADJUSTMENT, MINOR REFER TO 'Q' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION.
17	5020-I	FIRE HYDRANT ADJUSTMENT REFER TO 'Q' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION.
18	6010-A	STORM MANHOLE, SW-401, 48-INCH REFER TO 'M' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION.
19	6010-B	INTAKE, SW-507 REFER TO 'M' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION.

20	6010-B	INTAKE, MODIFIED SW-509 THIS ITEM IS FOR INT - 02. REFER TO 'M' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION. SEE NOTE IN TABULATION FOR MODIFICATION.
21	6010-B	INTAKE, SW-509 REFER TO 'M' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION.
22	6010-E-1	MANHOLE ADJUSTMENT, MINOR SEE 'Q' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION.
23	6010-H	REMOVE INTAKE SEE 'Q' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION.
24	7010-A	PAVEMENT, PCC, 8-INCH REFER TO 'B' SHEETS FOR TYPICAL SECTIONS, 'D' AND 'E' SHEETS FOR LOCATIONS, AND 'C' SHEETS FOR TABULATION. IOWA DOT C-3 OR C-4 MIX SHALL BE USED FOR THIS ITEM.
25	7010-I	PCC PAVEMENT SAMPLES AND TESTING
26	7030-A-1	REMOVAL OF SIDEWALK SEE 'Q' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION.
27	7030-A-3	REMOVAL OF DRIVEWAY SEE 'Q' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION.
28	7030-E	SIDEWALK, PCC, 5-INCH THIS ITEM IS FOR ALL SIDEWALK EXCEPT CURB RAMPS. REFER TO 'D' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION. IOWA DOT C-3 OR C-4 SHALL BE USED FOR THIS ITEM.
29	7030-H-1	DRIVEWAY, PAVED, PCC, 6-INCH CONTRACTOR TO MAINTAIN POSTAL SERVICE AT ALL TIMES DURING CONSTRUCTION. THERE MAY BE TIMES DURING CONSTRUCTION WHERE THE POSTAL SERVICE OR OTHER DELI+C53+C4053
30	7040-H	PAVEMENT REMOVAL SEE 'Q' SHEETS FOR LOCATIONS AND 'C' SHEETS FOR TABULATION. REMOVAL OF EXISTING SUBDRAIN AND FULL-DEPTH SAW CUTS SHALL BE INCIDENTAL TO THIS ITEM.
31	8030-A	TEMPORARY TRAFFIC CONTROL REFER TO 'J' SHEETS FOR TRAFFIC CONTROL REQUIREMENTS. TRAFFIC CONTROL SHALL BE COORDINATED WITH CITY OF MUSCATINE POLICE AND ENGINEERING DEPARTMENTS.
32	8040-I	REMOVE AND REINSTALL TRAFFIC SIGNS THIS ITEM SHALL INCLUDE ALL MATERIALS, LABOR AND EQUIPMENT TO REMOVE THE EXISTING SIGNS, SALVAGE MATERIALS, STOCKPILE AND REINSTALL AT THE SPECIFIED LOCATIONS. DAMAGE TO EXISTING MATERIALS SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER AND AT NO ADDITIONAL EXPENSE TO THE OWNER. REFER TO 'Q' SHEETS FOR LOCATIONS.
33	9020-A	SOD SOD SHALL BE LAWN GRASS. REFER TO 'R' SHEETS FOR LOCATIONS.
34	9040-D-1	FILTER SOCK, COMPOST, 12-INCH REFER TO 'R' SHEETS FOR LOCATIONS.
35	9040-D-2	FILTER SOCKS, REMOVAL REFER TO 'R' SHEETS FOR LOCATIONS.
36	9040-T-1	INLET PROTECTION DEVICE REFER TO 'R' SHEETS FOR LOCATIONS.
37	9040-T-2	INLET PROTECTION DEVICE, MAINTENANCE REFER TO 'R' SHEETS FOR LOCATIONS.
38	11010-A	CONSTRUCTION SURVEY
		REFER TO 'G' SHEETS FOR CONTROL POINT AND BENCHMARK LOCATIONS.
39	11020-A	MOBILIZATION
		THIS ITEM IS FOR ALL PREPARATORY WORK AND COST INCURRED BEFORE AND DURING THE WORK ON THE PROJECT. THIS ITEM SHALL INCLUDE THE COSTS FOR ANY STAGED CONSTRUCTION AND EQUIPMENT SET UP TO COMPLETE THE WORK. NO CHANGE IN CONTRACT PRICE WILL BE MADE FOR ANY COMBINATION OF ALTERNATIVES ADDED TO THE CONTRACT. MISCELLANEOUS MINOR WORK ITEMS WITH NO BID ITEM IN THE PLANS AND WHICH HAVE NO STANDARD BID ITEM SHALL BE INCIDENTAL TO THIS ITEM. THIS ITEM SHALL INCLUDE SHUT DOWN OF CONTROLLING OPERATIONS FOR PRIVATE UTILITY RELOCATIONS. REFER TO SHEET J.01 FOR INFORMATION REGARDING PRIVATE UTILITY RELOCATION.

40	11030-A	MAINTENANCE OF POSTAL SERVICE CONTRACTOR TO MAINTAIN POSTAL SERVICE AT ALL TIMES DURING CONSTRUCTION. THERE MAY BE TIMES DURING CONSTRUCTION WHERE THE POSTAL SERVICE OR OTHER DELIVERY SERVICES MAY NOT HAVE ACCESS TO MAIL FACILITIES AT WHICH THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY ACCESS TO THOSE FACILITIES. TEMPORARY MAILBOX RELOCATION AND REINSTALLATION OR THE ESTABLISHMENT OF A TEMPORARY MAIL DROP BOX OR A COMBINATION OF THESE ITEMS SHALL BE INCLUDED IN THIS ITEM. REMOVAL AND REINSTALLATION OF MAILBOXES SHALL BE INCIDENTAL TO THIS ITEM. THIS INCLUDES MATERIALS AND LABOR TO REPLACE ANY MATERIALS DAMAGED IF NECESSARY.
41	11030-B	MAINTENANCE OF SOLID WASTE COLLECTION CONTRACTOR TO MAINTAIN SOLID WASTE COLLECTION AT ALL TIMES DURING CONSTRUCTION. THERE MAY BE TIMES DURING CONSTRUCTION WHERE THE SOLID WASTE COLLECTION AGENCIES MAY NOT HAVE ACCESS TO SOLID WASTE RECEPTACLES OR FACILITIES AT WHICH THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY ACCESS TO THOSE RECEPTACLES OR FACILITIES. THE ESTABLISHMENT OF A TEMPORARY TRASH PICKUP AREA SHALL BE COORDINATED WITH THE SOLID WASTE COLLECTION AGENCY PRIOR TO THE ESTABLISHMENT OF THE TEMPORARY AREA AND SHALL BE INCLUDED IN THIS ITEM.
42	11050-A	CONCRETE WASHOUT THIS ITEM INCLUDES THE FURNISHING AND PERIODICAL CLEANOUT AND MAINTENANCE OF THE WASHOUT AREA AS DIRECTED BY THE ENGINEER.

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ADJUSTMENT OF FIXTURES					
Location Station	Offset	Type of Fixture	Adjustment	Elevation	
				Existing	Proposed
104+15.48	3.37	Sanitary Manhole	Minor	714.03	714.30
105+24.32	-19.31	Fire Hydrant Assembly	Minor	715.62	715.74
105+29.55	-16.32	Valve Box	Minor	715.16	715.40

REMOVAL OF DRIVEWAY					
Alignment	Begin Station	Offset	End Station	Offset	Area
					SY
Fulliam Ave - Centerline	101+72.22	16.46	101+93.27	-16.59	15.4
Fulliam Ave - Centerline	101+80.97	-16.50	102+09.97	-16.50	23.1
Fulliam Ave - Centerline	102+09.97	-16.50	102+13.97	-16.50	6.5
Fulliam Ave - Centerline	102+13.97	-16.50	102+41.97	-16.50	23.9
Fulliam Ave - Centerline	102+92.25	16.50	103+18.16	16.44	20.0
Fulliam Ave - Centerline	103+42.15	-16.67	103+60.44	-16.78	15.5
Fulliam Ave - Centerline	103+61.16	16.42	103+91.21	16.46	25.2
Fulliam Ave - Centerline	103+75.28	-16.65	104+03.11	-16.62	24.4
Fulliam Ave - Centerline	104+04.66	16.54	104+27.23	16.54	17.4
Fulliam Ave - Centerline	104+51.94	-16.72	104+69.79	-16.80	15.0
Fulliam Ave - Centerline	104+80.76	16.49	105+02.64	16.41	17.2
Fulliam Ave - Centerline	105+28.77	-16.74	105+47.53	-16.73	15.5
Fulliam Ave - Centerline	105+55.71	16.45	105+91.43	16.52	28.6
Fulliam Ave - Centerline	106+63.25	16.63	106+84.68	16.47	16.5
Fulliam Ave - Centerline	107+35.05	16.50	107+69.30	16.50	28.4
			TOTAL		292.6

REMOVAL OF SIDEWALK					
Alignment	Begin Station	Side	End Station	Side	Area
					SY
Fulliam Ave - Centerline	102+69.41	RT	103+40.63	RT	30.9
Fulliam Ave - Centerline	103+89.08	RT	104+36.14	RT	20.1
Fulliam Ave - Centerline	105+19.10	LT	105+51.80	RT	14.8
Fulliam Ave - Centerline	105+79.92	LT	106+29.42	LT	29.2
Fulliam Ave - Centerline	105+87.41	RT	106+14.25	RT	11.9
Fulliam Ave - Centerline	106+76.79	LT	106+88.44	LT	5.3
Fulliam Ave - Centerline	107+01.70	RT	107+35.18	RT	15.7
Fulliam Ave - Centerline	107+37.25	RT	107+75.51	RT	16.4
			TOTAL		144.4

REMOVAL OF STORM STRUCTURES			
Alignment	Station	Offset	Type
Fulliam Ave - Centerline	101+30.61	-17.63	Intake
Fulliam Ave - Centerline	101+30.51	18.43	Intake

LIST OF SUBDRAIN WORK						
Alignment	Section Start		Section End		Length	Remarks
	Station	Offset	Station	Offset		
Fulliam Ave - Centerline	101+29.50	-18.00	102+55.22	-18.00	132.7	INT-01 to INT-03
Fulliam Ave - Centerline	102+64.22	-18.00	104+35.11	-18.00	170.9	INT-03 to INT-05
Fulliam Ave - Centerline	104+44.11	-18.00	106+12.05	-18.00	168.0	INT-05 to new Cleanout
Fulliam Ave - Centerline	106+14.87	-18.00	107+23.61	-18.00	108.7	New Cleanout to Ex- Cleanout
Fulliam Ave - Centerline	104+44.10	18.00	106+12.12	18.00	168.1	INT-06 to new Cleanout
Fulliam Ave - Centerline	106+14.898	18.00	107+23.61	18.00	108.7	New Cleanout to Ex-Cleanout
			TOTAL		857.1	

SUBDRAIN CLEANOUTS		
Alignment	Station	Offset
Fulliam Ave - Centerline	106+13.49	-18.00
Fulliam Ave - Centerline	106+13.51	18.00

STORM SEWER ABANDONMENT OR REMOVAL						
Alignment	Pipe Section Start		Pipe Section End		Abandon	Removal
	Station	Offset	Station	Offset	LF	LF
Fulliam Ave - Centerline	100+94.31	18.36	101+30.51	18.43		36.0
Fulliam Ave - Centerline	101+30.61	-17.53	101+30.51	18.43		36.0
			TOTAL		0.0	72.0

REMOVAL & REINSTALLATION OF MAILBOX		
Alignment	Station	Offset
Fulliam Ave - Centerline	101+79.41	-16.66
Fulliam Ave - Centerline	101+97.85	15.94
Fulliam Ave - Centerline	102+45.43	-17.17
Fulliam Ave - Centerline	102+90.28	16.3
Fulliam Ave - Centerline	103+39.02	-16.09
Fulliam Ave - Centerline	103+59.64	16.96
Fulliam Ave - Centerline	104+04.77	-16.17
Fulliam Ave - Centerline	104+33.65	16.44
Fulliam Ave - Centerline	104+71.07	-16.99
Fulliam Ave - Centerline	105+04.20	16.02
Fulliam Ave - Centerline	105+48.90	-16.27
Fulliam Ave - Centerline	105+55.68	16.46
Fulliam Ave - Centerline	106+62.37	16.14
Fulliam Ave - Centerline	107+70.35	17.08

STORM SEWER PIPES						
SIZE	UPSTREAM STRUCTURE	UPSTREAM INVERT	DOWNSTREAM STRUCTURE	DOWNSTREAM INVERT	LENGTH LF	SLOPE
15" RCP	INT - 01	707.99	INT - 02	707.91	36.0	0.24%
18" RCP	INT - 02	707.71	MH - 01	707.61	25.8	0.39%
15" RCP	INT - 03	708.89	INT - 04	708.73	36.0	0.46%
18" RCP	INT - 04	708.35	INT - 02	707.81	139.7	0.39%
18" RCP	INT - 06	709.17	INT - 04	708.45	179.9	0.40%
15" RCP	INT - 05	710.04	INT - 06	709.71	36.0	0.92%

TOTALS	
SIZE	LENGTH
15" RCP	108
18" RCP	345

STORM SEWER STRUCTURES					
NAME	STRUCTURE TYPE	STATION	OFFSET	ELEVATION	REMARKS
INT - 01	SW-507 (On Sag)	101+20.00	-16.50	FG = 711.07	
INT - 02	MODIFIED SW-509 (On Sag)	101+20.00	16.50	FG = 711.07	2 ADDITIONAL #5 BARS ABOVE ALL PIPE OPENINGS
INT - 03	SW-509	102+59.72	-16.50	FG = 712.30	
INT - 04	SW-509	102+59.72	16.50	FG = 712.30	
INT - 05	SW-509	104+39.61	-16.50	FG = 714.30	
INT - 06	SW-509	104+39.59	16.50	FG = 714.30	
MH - 01	SW-401 (48in)	100+94.31	18.36	R = 711.73	

PCC DRIVEWAY					
Alignment	Begin Station	Offset	End Station	Offset	Area
					SY
Fulliam Ave - Centerline	101+73.14	16.5	101+93.14	16.5	15.0
Fulliam Ave - Centerline	101+80.97	-16.5	102+09.97	-16.5	25.3
Fulliam Ave - Centerline	102+09.97	-16.5	102+13.97	-16.5	6.8
Fulliam Ave - Centerline	102+13.97	-16.5	102+41.97	-16.5	24.3
Fulliam Ave - Centerline	102+92.43	16.5	103+18.43	16.5	20.2
Fulliam Ave - Centerline	103+40.89	-16.5	103+61.39	-16.5	17.3
Fulliam Ave - Centerline	103+59.97	16.5	103+92.17	16.5	26.0
Fulliam Ave - Centerline	103+73.51	-16.5	104+03.51	-16.5	26.1
Fulliam Ave - Centerline	104+04.97	16.5	104+27.97	16.5	18.0
Fulliam Ave - Centerline	104+50.91	-16.5	104+70.97	-16.5	16.8
Fulliam Ave - Centerline	104+80.52	16.5	105+03.82	16.5	17.9
Fulliam Ave - Centerline	105+27.82	-16.5	105+48.32	-16.5	17.1
Fulliam Ave - Centerline	105+55.41	16.5	105+91.41	16.5	28.8
Fulliam Ave - Centerline	106+63.33	16.5	106+85.33	16.5	16.9
Fulliam Ave - Centerline	107+34.74	16.5	107+68.74	16.5	27.6
			TOTAL		304.0

FILTER SOCK					
Alignment	Location				Length
	Start Station	Offset	End Station	Offset	FT
Fullaim Ave - Centerline	100+94.20	-17.7	101+17.49	-17.78	23.4
Fullaim Ave - Centerline	101+22.53	-18	101+83.05	-24.99	65.4
Fullaim Ave - Centerline	100+96.81	18.33	101+15.30	18.05	18.7
Fullaim Ave - Centerline	101+24.50	18.08	101+75.18	24.57	55.5
Fullaim Ave - Centerline	102+40.11	-25.38	102+55.22	-17.36	20.7
Fullaim Ave - Centerline	102+64.22	-17.4	103+42.89	-24.95	83.7
Fullaim Ave - Centerline	103+59.41	-25.39	103+75.41	-24.92	26.8
Fullaim Ave - Centerline	104+01.56	-25.05	104+34.75	-17.98	38.7
Fullaim Ave - Centerline	104+44.73	-17.63	104+52.89	-25.19	13.8
Fullaim Ave - Centerline	104+69.00	-258.44	105+29.47	-24.31	70.6
Fullaim Ave - Centerline	105+46.27	-24.84	107+99.60	-17.88	258.7
Fullaim Ave - Centerline	107+67.05	24.05	108+00.15	17.6	37.2
Fullaim Ave - Centerline	106+83.84	24.54	107+36.25	23.82	61.6
Fullaim Ave - Centerline	105+89.90	24.6	106+65.32	24.51	84.6
Fullaim Ave - Centerline	105+01.92	24.41	105+57.84	24.47	64.5
Fullaim Ave - Centerline	104+44.10	17.62	104+82.76	24.33	43.3
Fullaim Ave - Centerline	104+26.32	24.19	104+35.10	17.65	13.0
Fullaim Ave - Centerline	103+89.85	24.23	104+07.29	24.36	26.8
Fullaim Ave - Centerline	101+91.25	24.88	102+54.90	17.29	69.0
Fullaim Ave - Centerline	102+64.71	17.32	102+94.00	23.57	27.0
Fullaim Ave - Centerline	103+16.95	23.93	103+61.98	24.7	54.2
			TOTAL		1157.0

INLET PROTECTION DEVICE					
Alignment	Location		Installation	Maintenance	Removal
	Station	Offset	EACH	EACH	EACH
Fulliam Ave - Centerline	101+20.00	-16.50	1	3	1
Fulliam Ave - Centerline	101+20.00	16.50	1	3	1
Fulliam Ave - Centerline	102+59.72	-16.50	1	3	1
Fulliam Ave - Centerline	102+59.72	16.50	1	3	1
Fulliam Ave - Centerline	104+39.61	-16.50	1	3	1
Fulliam Ave - Centerline	104+39.59	16.50	1	3	1
		TOTAL	6	18	6

SIDEWALKS							
Intersection/ Road	Quadrant/ Side	Reference Alignment	Station to Station		Width	5" PCC	6" PCC
						Sidewalk	Sidewalk
					FT	Area SY	Area SY
W Fulliam Ave	RT	Fulliam Ave - Centerline	102+69.41	103+40.63	4.0	30.9	
W Fulliam Ave	RT	Fulliam Ave - Centerline	103+89.17	104+36.14	4.0	20.1	
W Fulliam Ave	LT	Fulliam Ave - Centerline	105+19.09	105+51.77	4.0	14.5	
W Fulliam Ave	LT	Fulliam Ave - Centerline	105+79.82	106+29.43	4.0	25.3	
W Fulliam Ave	RT	Fulliam Ave - Centerline	105+87.41	106+14.25	4.0	11.9	
W Fulliam Ave	LT	Fulliam Ave - Centerline	106+76.78	106+88.47	4.0	5.3	
W Fulliam Ave	RT	Fulliam Ave - Centerline	107+01.74	107+75.52	4.0	32.4	
			TOTAL			140.3	0.0



**BOLTON
& MENK**

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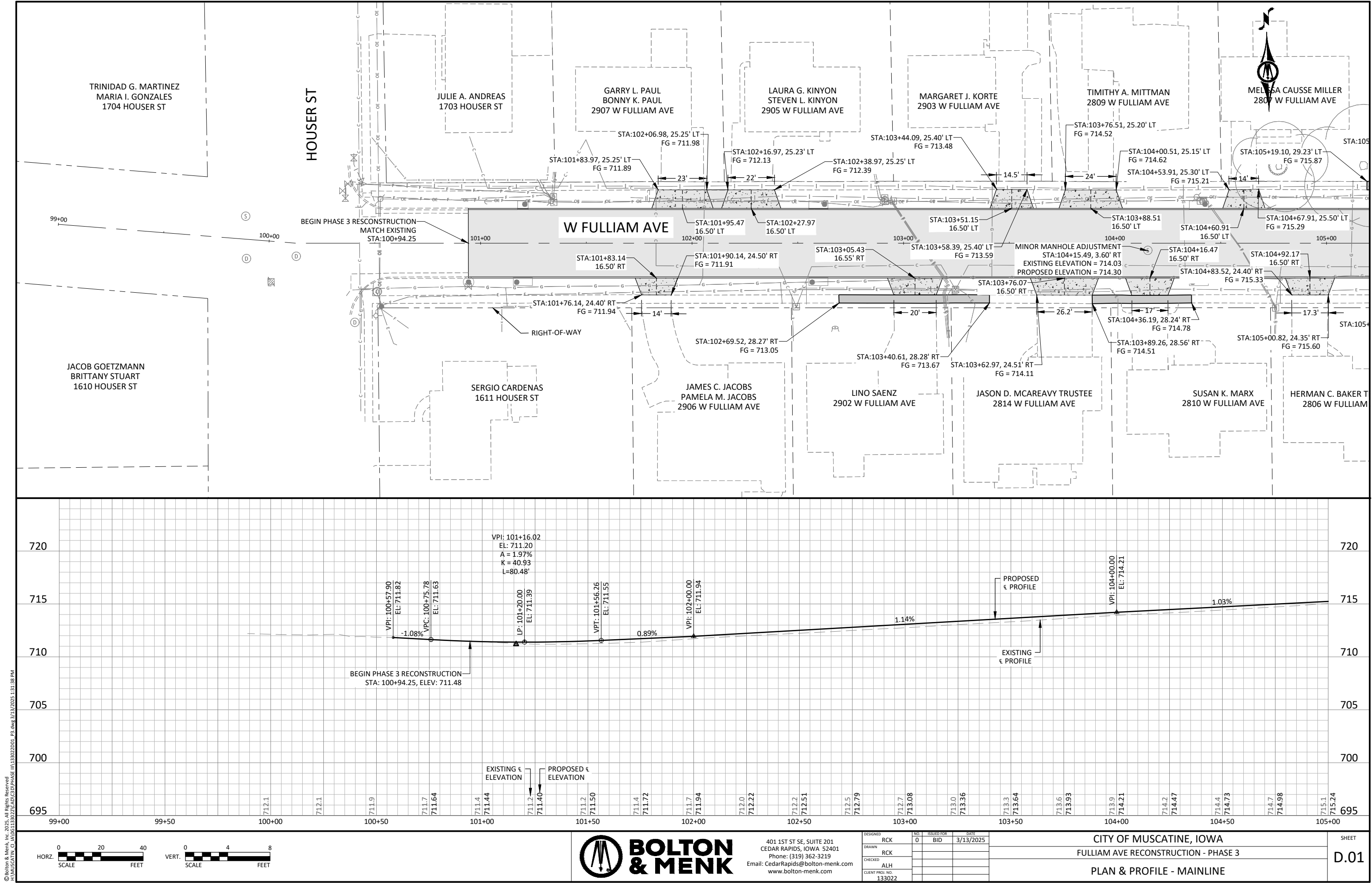
CITY OF MUSCATINE, IOWA

FULLIAM AVE RECONSTRUCTION - PHASE 3

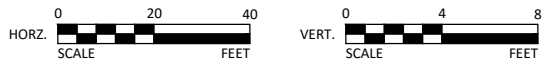
TABULATIONS

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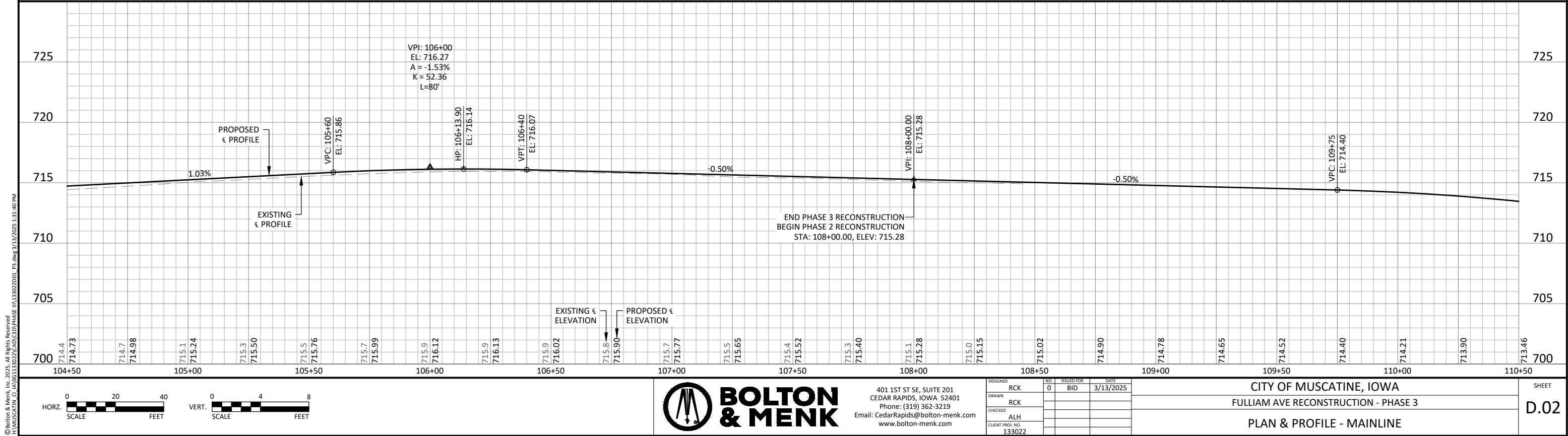
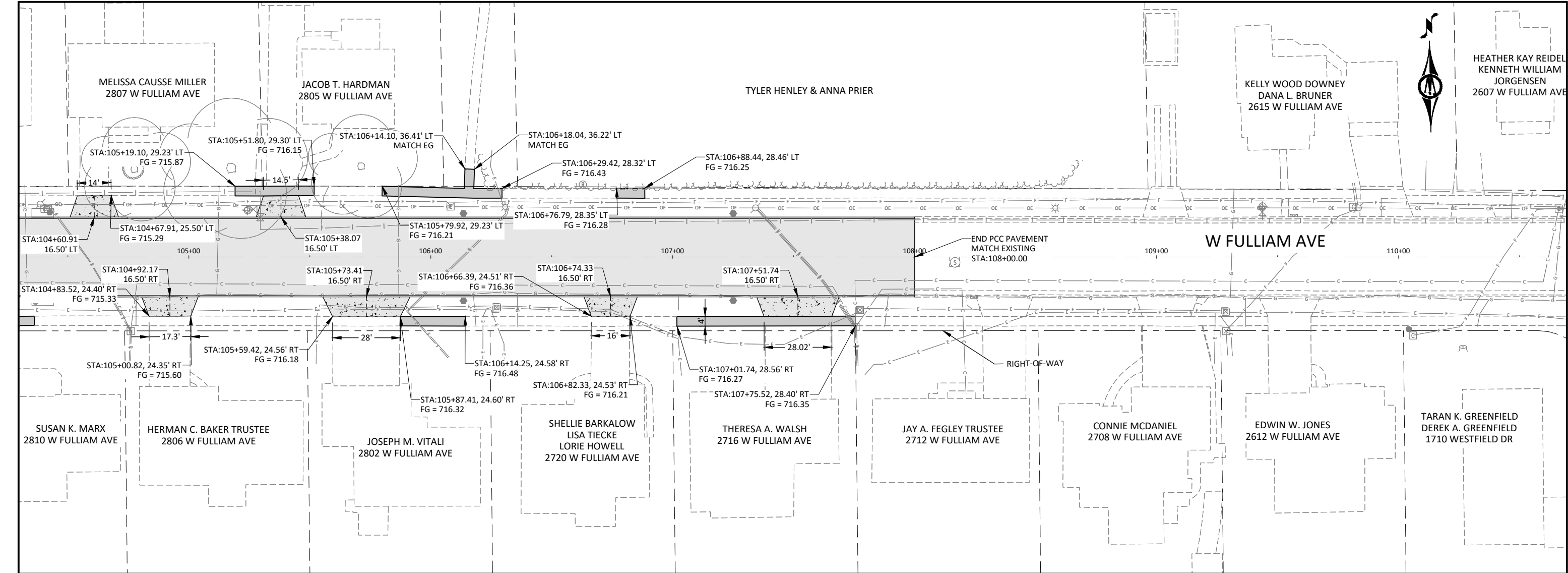


401 1ST ST SE, SUITE 201
CEDAR RAPIDS, IOWA 52401
Phone: (319) 362-3219
Email: CedarRapids@bolton-menk.com
www.bolton-menk.com

DESIGNED	NO.	ISSUED FOR	DATE
RCK	0	BID	3/13/2025
DRAWN			
RCK			
CHECKED			
ALH			
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133022			

CITY OF MUSCATINE, IOWA
FULLIAM AVE RECONSTRUCTION - PHASE 3
PLAN & PROFILE - MAINLINE

SHEET
D.01



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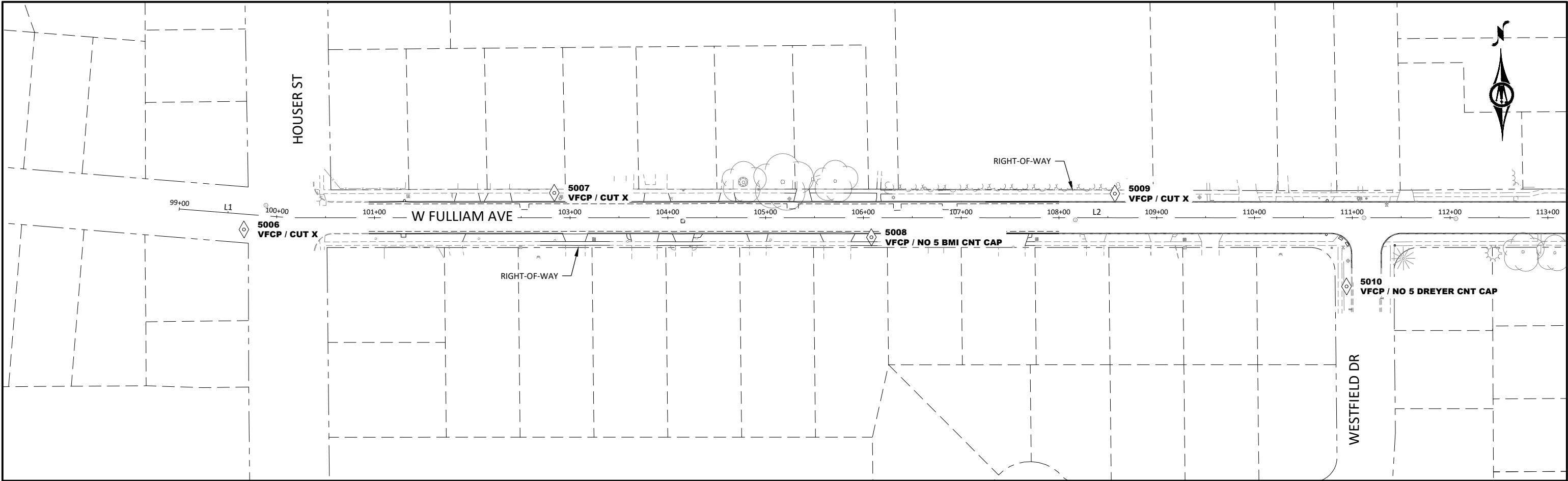


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CITY OF MUSCATINE, IOWA
FULLIAM AVE RECONSTRUCTION - PHASE 3
PLAN & PROFILE - MAINLINE

SHEET
D.02



FULLIAM AVE - CENTERLINE										
NUMBER	START STATION	END STATION	LENGTH	DELTA	RADIUS	CHORD	START N	START E	END N	END E
L1	99+00	100+13	113.00				6630417.54	24546662.40	6630406.68	24546774.88
L2	100+13	124+00	2387.00				6630406.68	24546774.88	6630365.63	24549161.52

SURVEY CONTROL POINT DATA				
POINT NUMBER	RAW DESCRIPTION	ELEVATION	NORTHING	EASTING
5006	VFCP / CUT X	711.965'	6630395.44	24546728.20
5007	VFCP / CUT X	713.000'	6630427.38	24547046.21
5008	VFCP / NO 5 BMI CNT CAP	716.245'	6630376.48	24547369.65
5009	VFCP / CUT X	715.390'	6630416.80	24547619.38
5010	VFCP / NO 5 DREYER CNT CAP	713.250'	6630317.78	24547854.65

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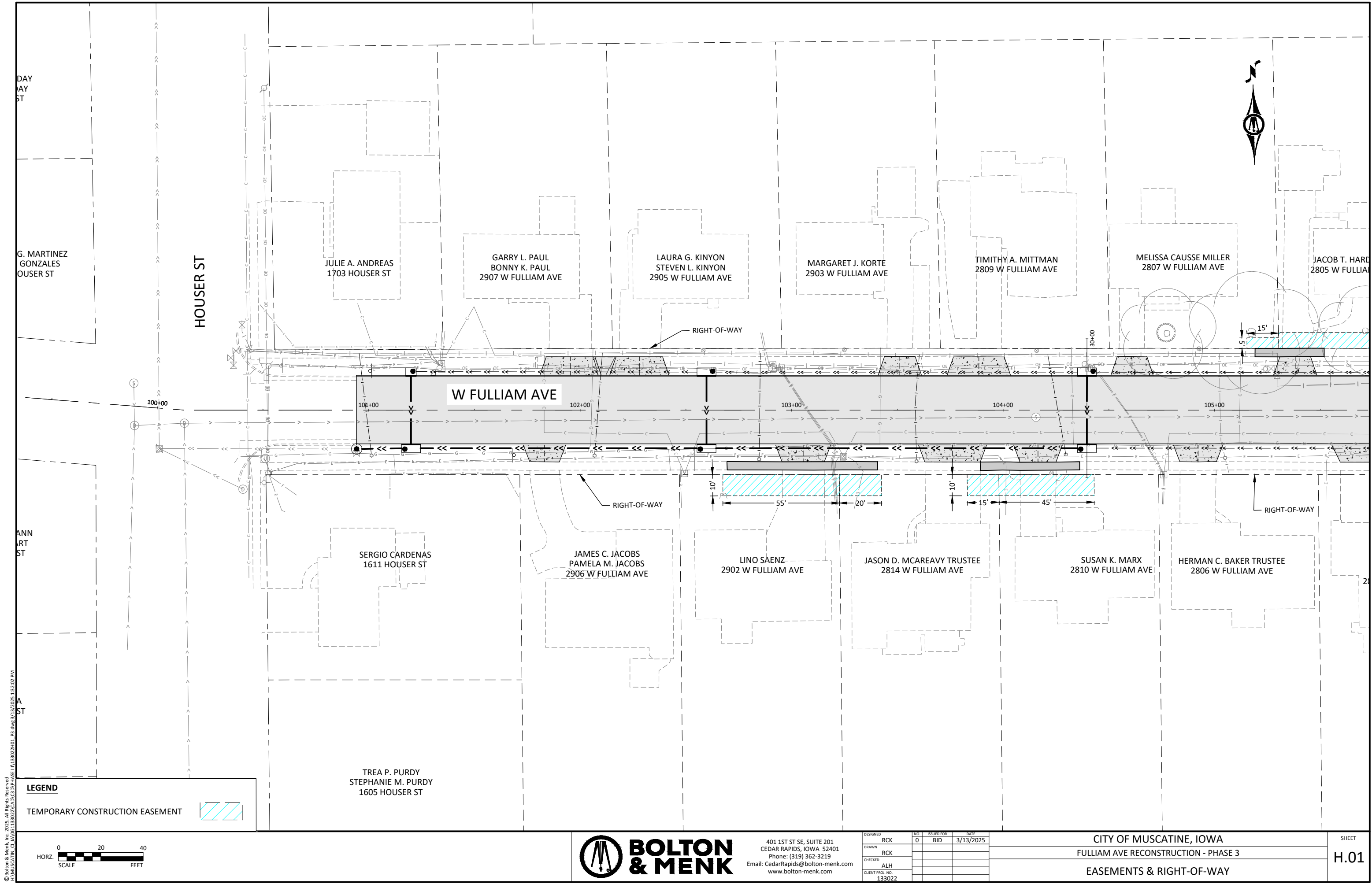
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REFERENCES & BENCHMARKS

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LEGEND

TEMPORARY CONSTRUCTION EASEMENT



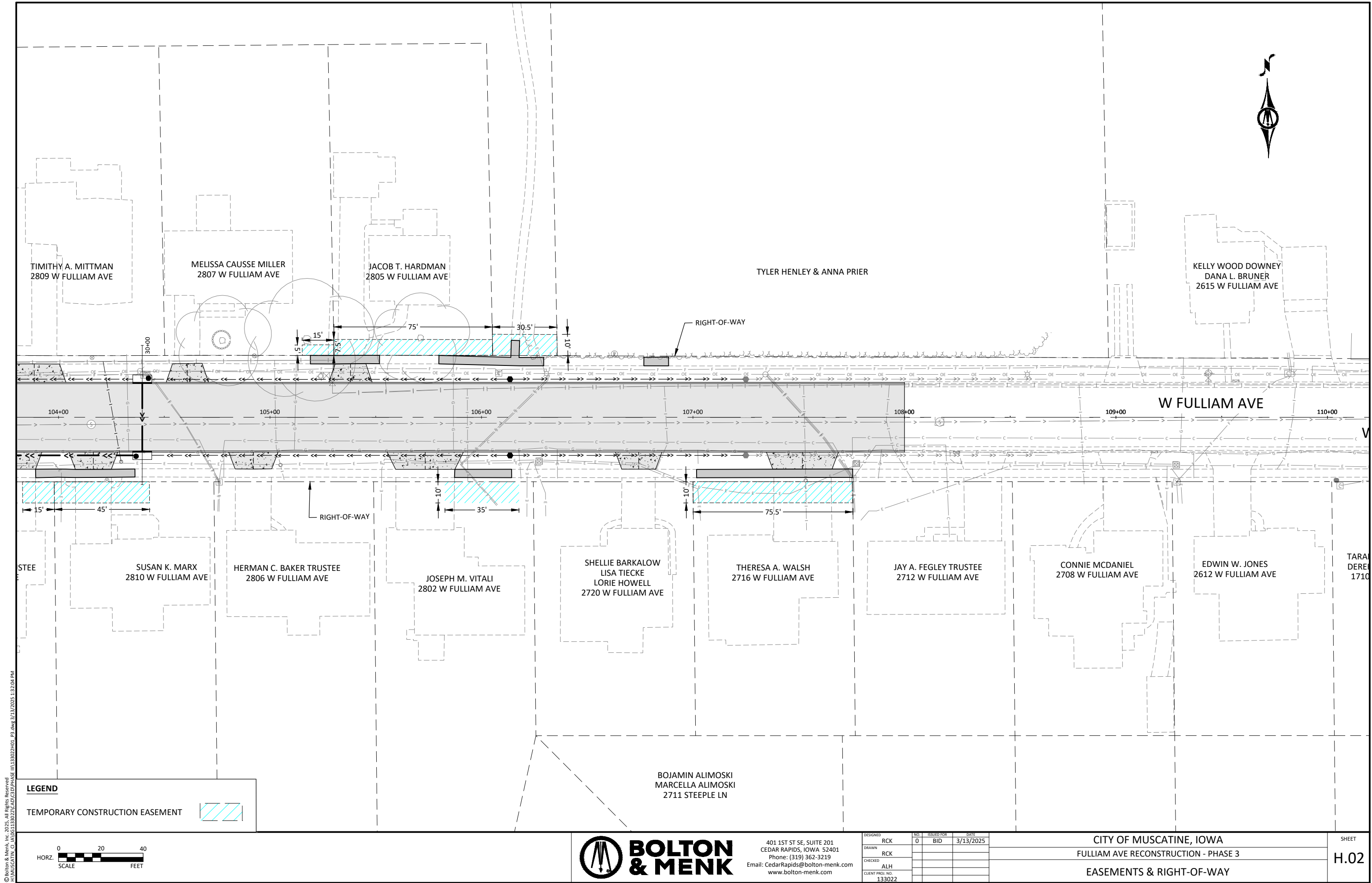
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FULLIAM AVE RECONSTRUCTION - PHASE 3
EASEMENTS & RIGHT-OF-WAY

SHEET

H.01



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FULLIAM AVE RECONSTRUCTION - PHASE 3
EASEMENTS & RIGHT-OF-WAY

SHEET

H.02

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NOTES

GENERAL INFORMATION

1. THE ITEM "TEMPORARY TRAFFIC CONTROL" COVERS ALL DEVICES SHOWN ON THE PLAN SHEETS AND OTHER SETUPS REQUIRED BY THE CONTRACTOR'S OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES NEEDED FOR THE PROJECT.
2. FIELD CONDITIONS MAY REQUIRE MODIFICATIONS OF THIS LAYOUT AS DEEMED NECESSARY BY THE ENGINEER.
3. ALL DISTANCES ARE APPROXIMATE, UNLESS OTHERWISE NOTED.
4. SIGN PLACEMENTS SHALL NOT OBSTRUCT EXISTING SIGNS.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL WORK AREAS NEAR TRAFFIC IN ACCORDANCE WITH THE MUTCD.
6. THE REMOVAL OF TEMPORARY TRAFFIC CONTROL SHALL BE INCIDENTAL.
7. ALL PLAN SHEETS ARE TO SCALE UNLESS OTHERWISE NOTED WITH DISTANCES SPECIFIED.
8. CONTRACTOR SHALL FURNISH THE CITY WITH NAMES AND TELEPHONE NUMBERS OF INDIVIDUALS RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES AND SIGNING. THE INDIVIDUAL(S) SHALL BE AVAILABLE FOR CORRECTIVE ACTION 24 HOURS A DAY, 7 DAYS A WEEK.
9. TRAFFIC CONTROL SHALL COMPLY WITH IOWA DOT STANDARD ROAD PLAN TC-252
10. NO ROAD CLOSURE ALLOWED PRIOR TO JUNE 2ND, 2025.

CONSTRUCTION INFORMATION SIGNING

1. THE CONTRACTOR SHALL PLACE THE PDMS SIGNS 5 WORKING DAYS IN ADVANCE OF ROAD CLOSURE, PRIOR TO THE BEGINNING OF EACH STAGE, AND PRIOR TO ANY CHANGE IN TRAFFIC CONTROL. NO ROAD CLOSURES WILL BE ALLOWED PRIOR TO JUNE 2ND, 2025.

PRIVATE UTILITY RELOCATIONS WITHIN PROJECT SITE

PRIVATE UTILITY RELOCATIONS WILL BE REQUIRED WITHIN THE PROJECT SITE DURING THE CONSTRUCTION PERIOD. THE WORKING DAYS ALLOTTED IN THE CONTRACT SHALL INCLUDE 10 WORKING DAYS OF SHUT DOWN OF CONTRACTOR'S CONTROLLING OPERATIONS. SHUT DOWN OF CONTROLLING OPERATION FOR 10 NON-CONSECUTIVE WORKING DAYS SHALL BE INCLUDED IN THE PRICE BID FOR MOBILIZATION. CONTRACTOR WILL NOT BE ALLOWED TO CHARGE UTILITIES SEPARATELY FROM THE CONTRACT FOR SHUT DOWN, EQUIPMENT IDLE TIME, DEMOBILIZATION, OR MOBILIZATION FOR THESE 10 WORKING DAYS.

PRIVATE UTILITY RELOCATIONS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- ALLIANT ENERGY UNDERGROUND GAS LINE IN CONFLICT WITH THE FOLLOWING STORM STRUCTURES:

••

INT - 02, INT - 04, INT - 06, AND MH - 01
- LUMEN UNDERGROUND FIBER OPTIC LINE IN CONFLICT WITH THE FOLLOWING STORM STRUCTURES:

••

INT-01
- MUSCATINE POWER AND WATER PEDESTAL IN CONFLICT WITH THE FOLLOW STORM STRUCTURES:

••

INT - 05
- MUSCATINE POWER AND WATER FIBER OPTIC LINE IN CONFLICT WITH THE FOLLOWING STORM STRUCTURES:

••

INT-03 AND INT-05

TRAFFIC CONTROL INDEX

SHEET	DESCRIPTION
J.01	STAGING & TRAFFIC CONTROL - NOTES & LEGEND
J.02	STAGING & TRAFFIC CONTROL - TEMPORARY SIGNAGE
J.03	STAGING & TRAFFIC CONTROL - LAYOUT

TRAFFIC CONTROL DEVICES & SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	CONSTRUCTION AREA
	DETOUR ROUTE
	TRAFFIC CONTROL SIGN (SHOWN FACING RIGHT)
	TYPE III BARRICADE = 



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FULLIAM AVE RECONSTRUCTION - PHASE 3

STAGING & TRAFFIC CONTROL - NOTES & LEGEND

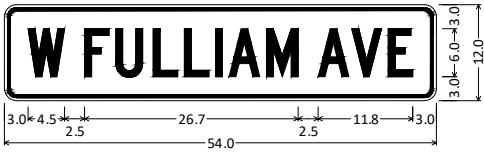
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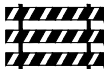
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"W" SERIES			
SIGN	SIGN NO.	COLOR	SIZE
	W20-2	BLACK ON ORANGE	48" x 48"
	W20-3	BLACK ON ORANGE	48" x 48"

"R" SERIES			
SIGN	SIGN NO.	COLOR	SIZE
	R11-2	BLACK ON WHITE	48" x 30"
	R11-4	BLACK ON WHITE	60" x 30"



1.5" Radius, 0.4" Border, 0.4" Indent, Black on Orange;
"W", C 2K; "FULLIAM", C 2K; "AVE", C 2K;

"T" SERIES			
SIGN	SIGN NO.	COLOR	SIZE
	T3L	ORANGE ON WHITE	6' MINIMUM
	T3R	ORANGE ON WHITE	6' MINIMUM

"M" SERIES			
SIGN	SIGN NO.	COLOR	SIZE
	M3-2	BLACK ON WHITE	24" x 12"
	M3-4	BLACK ON WHITE	24" x 12"
	M4-8	BLACK ON ORANGE	24" x 12"
	M4-8a	BLACK ON ORANGE	24" x 18"
	M5-1 (L)	BLACK ON WHITE	21" x 15"
	M5-1 (R)	BLACK ON WHITE	21" x 15"
	M5-3	BLACK ON WHITE	21" x 15"
	M6-1 (L)	BLACK ON WHITE	21" x 15"
	M6-1 (R)	BLACK ON WHITE	21" x 15"
	M6-3	BLACK ON WHITE	21" x 15"



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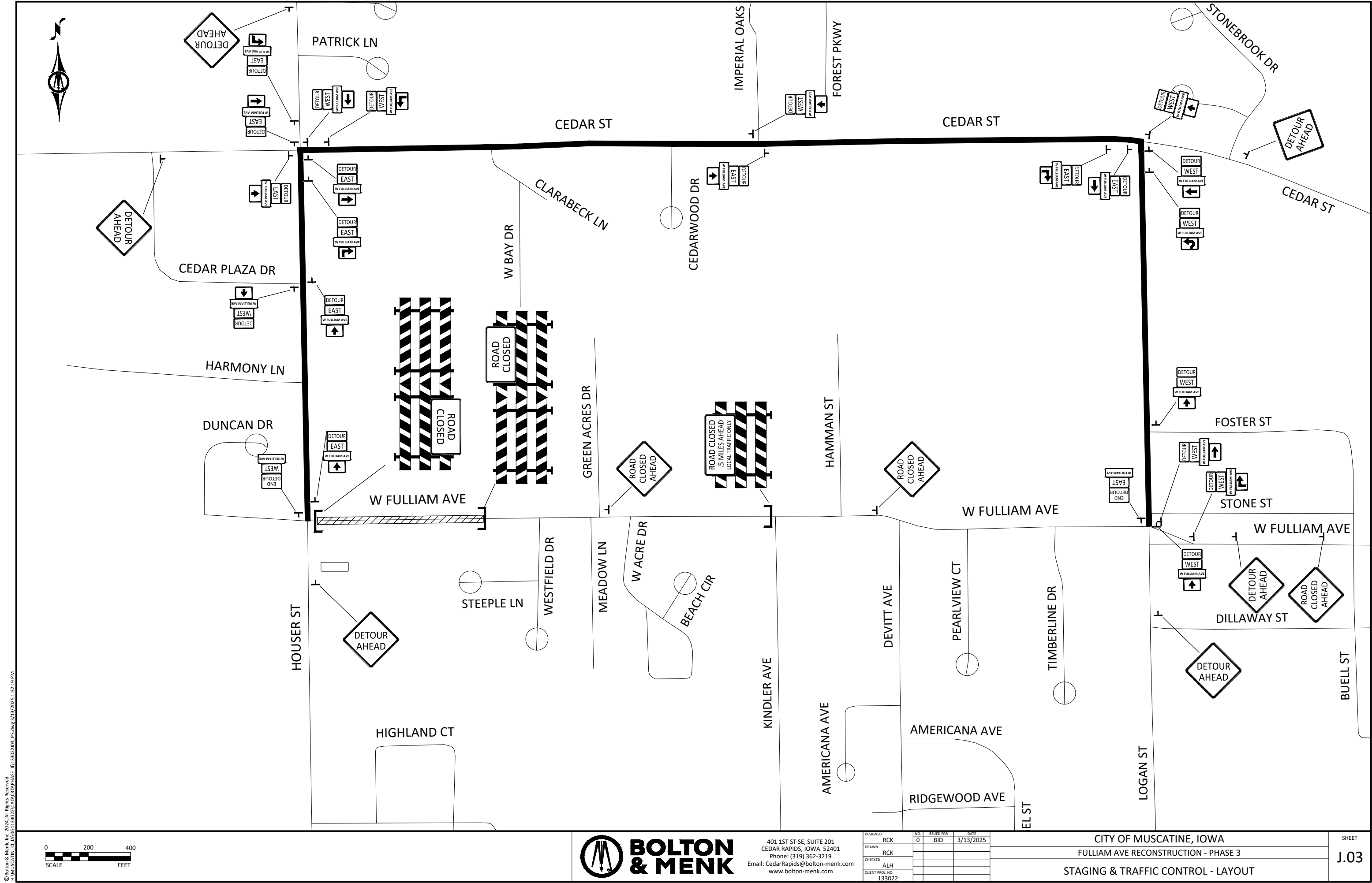
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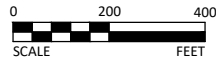
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FULLIAM AVE RECONSTRUCTION - PHASE 3
STAGING & TRAFFIC CONTROL - TEMPORARY SIGNAGE

SHEET

J.02



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FULLIAM AVE RECONSTRUCTION - PHASE 3		
STAGING & TRAFFIC CONTROL - LAYOUT		

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CITY OF MUSCATINE, IOWA
FULLIAM AVE RECONSTRUCTION - PHASE 3
GEOMETRICS & JOINTING

SHEET

L.01

HOUSER ST

JULIE A. ANDREAS
1703 HOUSER ST

GARRY L. PAUL
BONNY K. PAUL
2907 W FULLIAM AVE

LAURA G. KINYON
STEVEN L. KINYON
2905 W FULLIAM AVE

MARGARET J. KORTE
2903 W FULLIAM AVE

TIMOTHY A. MITTMAN
2809 W FULLIAM AVE

MELISSA CAUSSE MILLER
2807 W FULLIAM AVE

JACOB T. HARDMAN
2805 W FULLIAM AVE

SERGIO CARDENAS
1611 HOUSER ST

JAMES C. JACOBS
PAMELA M. JACOBS
2906 W FULLIAM AVE

LINO SAENZ
2902 W FULLIAM AVE

JASON D. MCAREAVY TRUSTEE
2814 W FULLIAM AVE

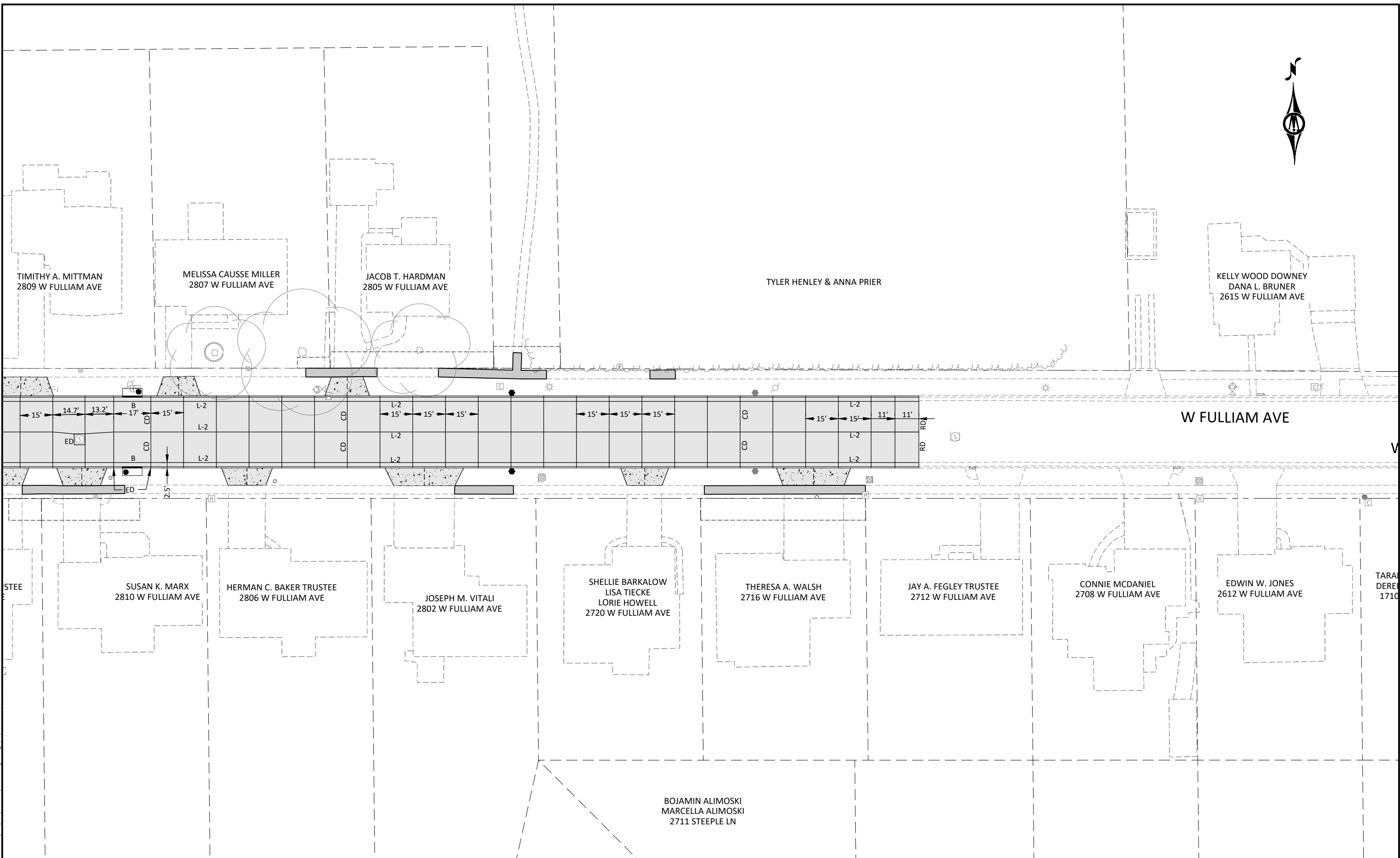
SUSAN K. MARX
2810 W FULLIAM AVE

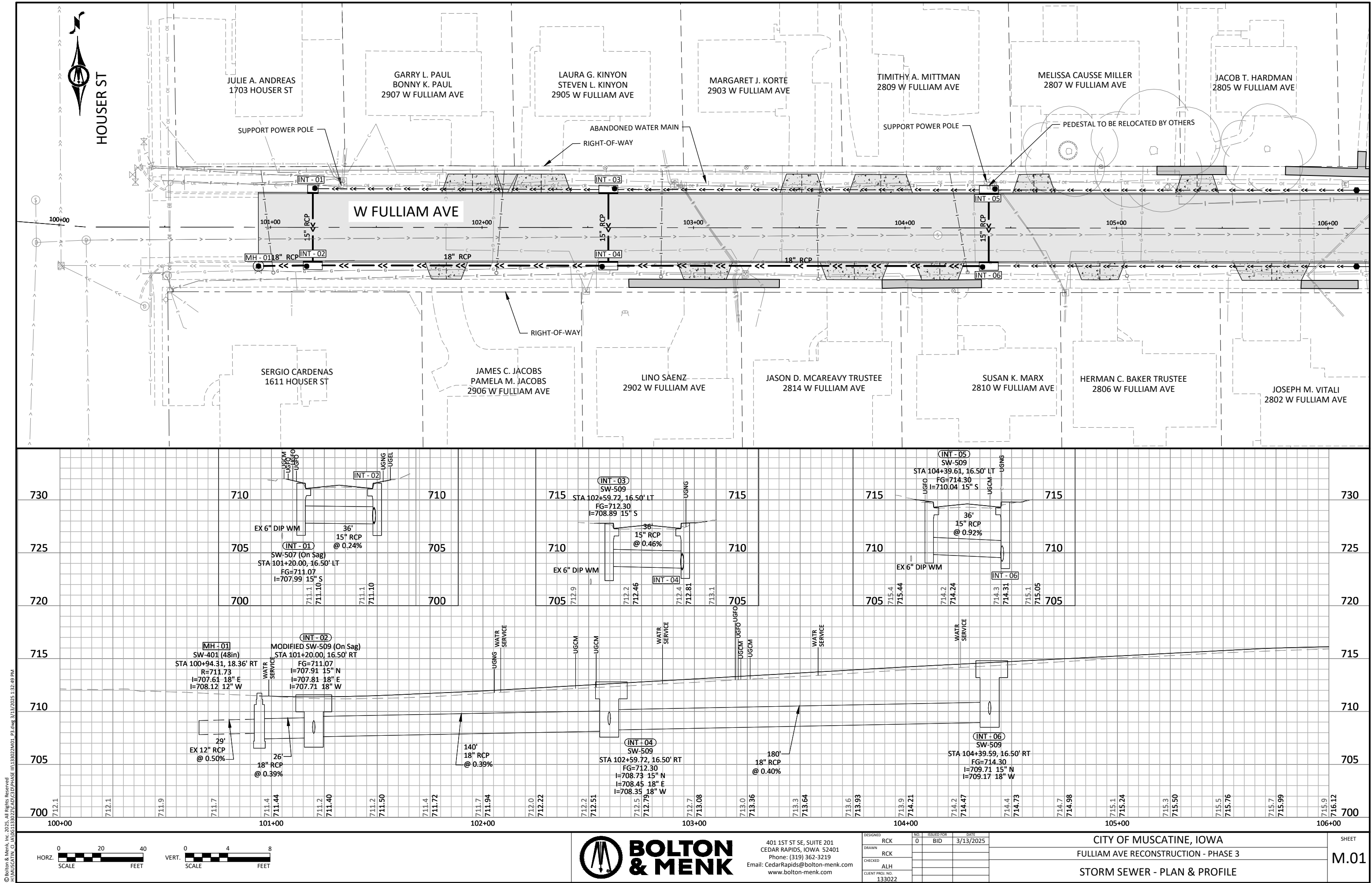
HERMAN C. BAKER TRUSTEE
2806 W FULLIAM AVE

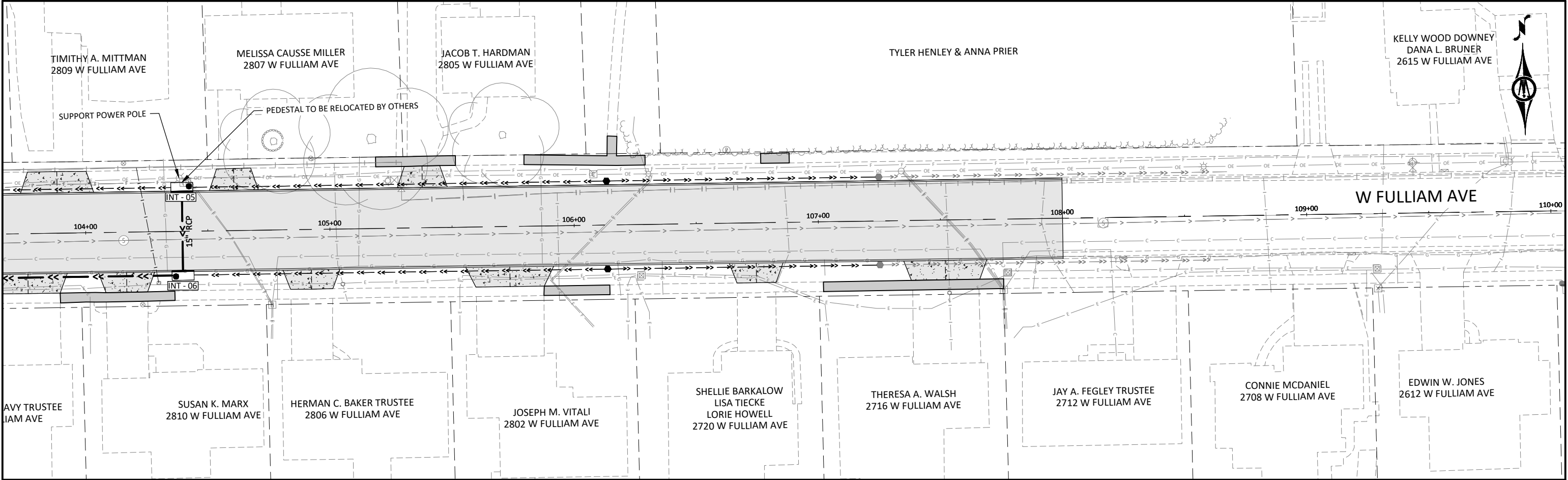
JOSEPH M. V
2802 W FULLIAM AVE

TREA P. PURDY
STEPHANIE M. PURDY
1605 HOUSER ST

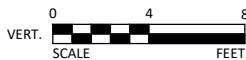
W FULLIAM AVE







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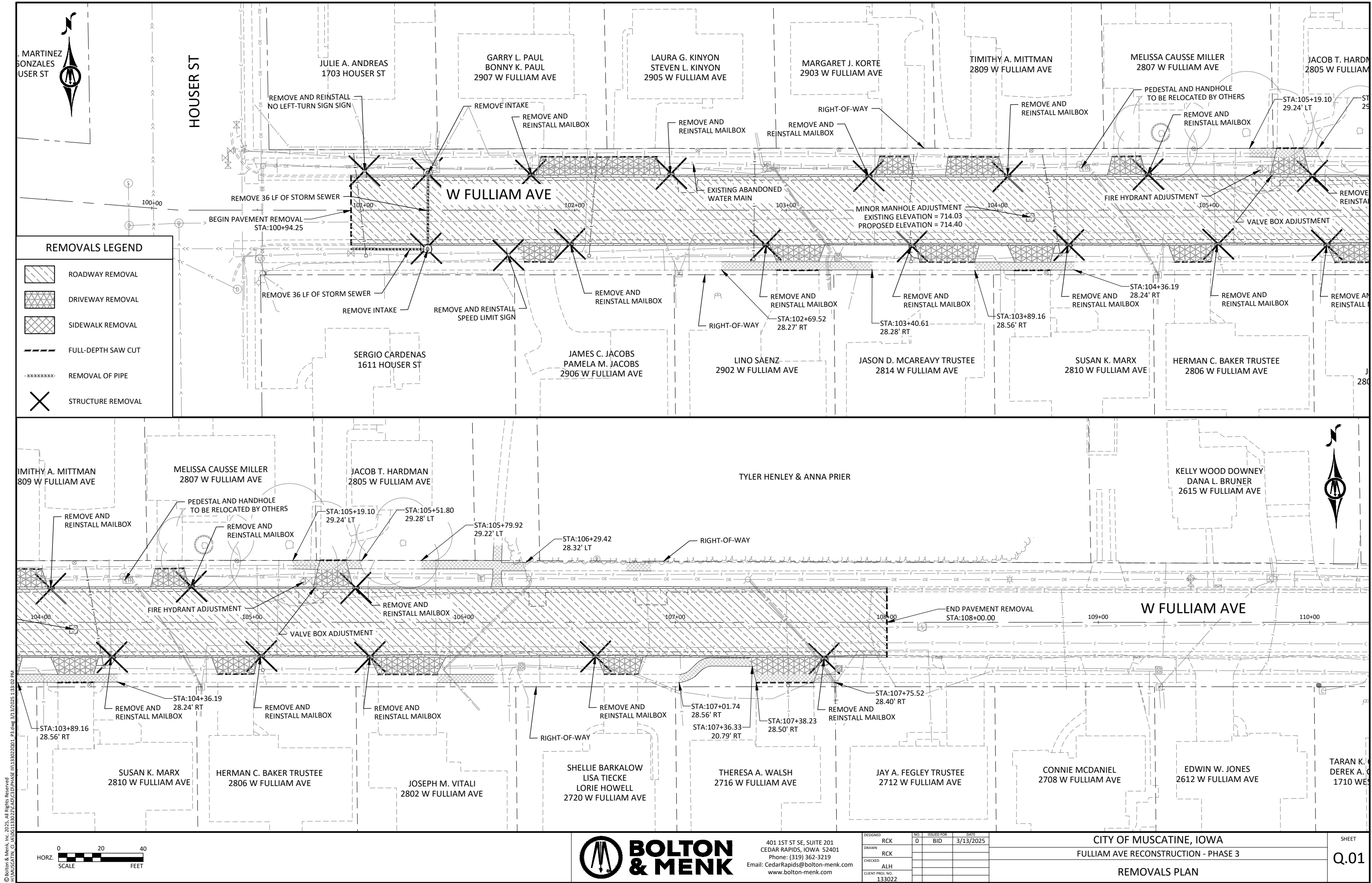
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CITY OF MUSCATINE, IOWA
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STORM SEWER - PLAN & PROFILE

SHEET

M.02



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REMOVALS PLAN
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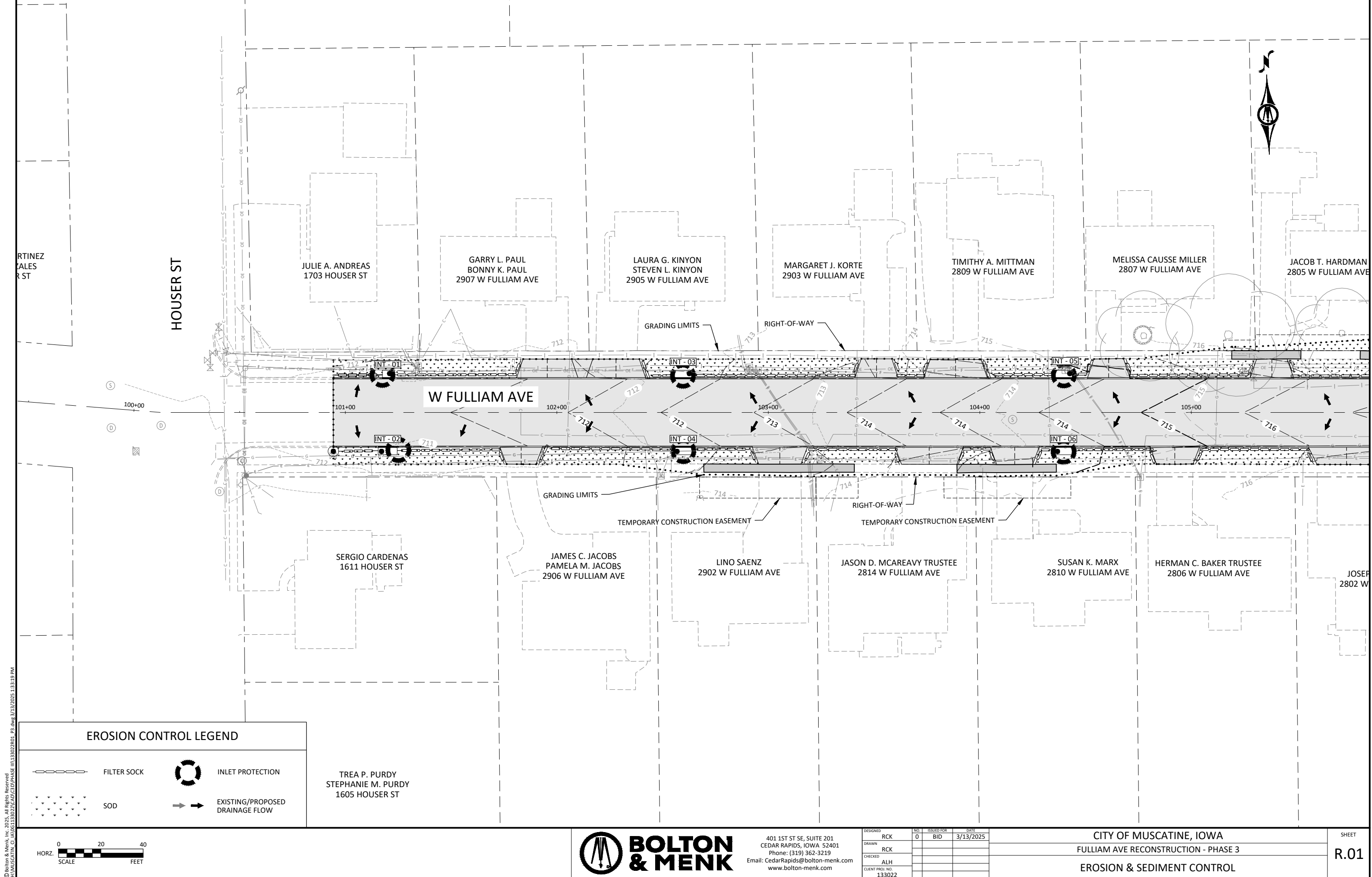
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FULLIAM AVE RECONSTRUCTION - PHASE 3

REMOVALS PLAN

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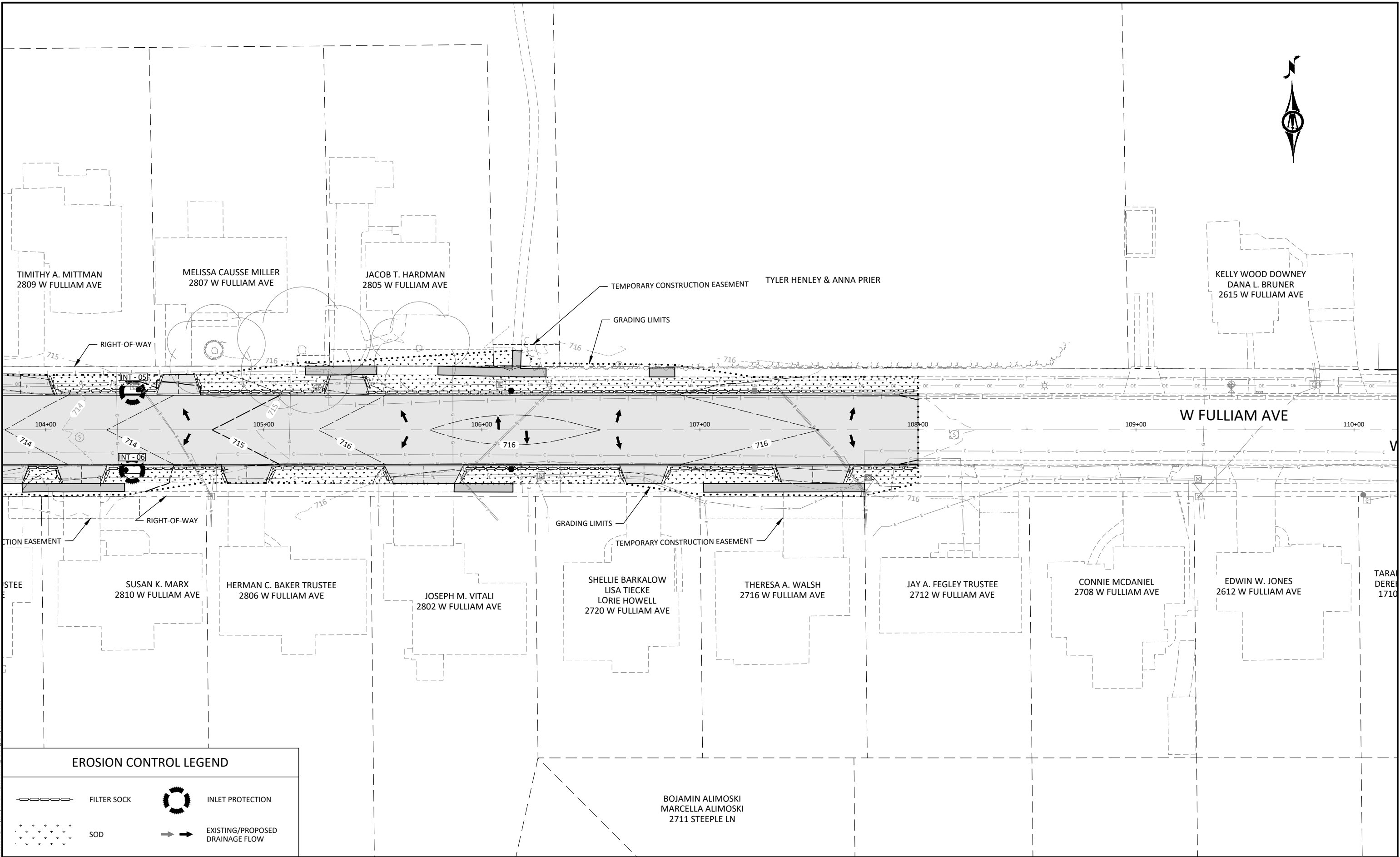
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EROSION & SEDIMENT CONTROL

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EROSION CONTROL LEGEND

- | | | | |
|--|-------------|--|---------------------------------|
| | FILTER SOCK | | INLET PROTECTION |
| | SOD | | EXISTING/PROPOSED DRAINAGE FLOW |

HORZ. SCALE
0 20 40
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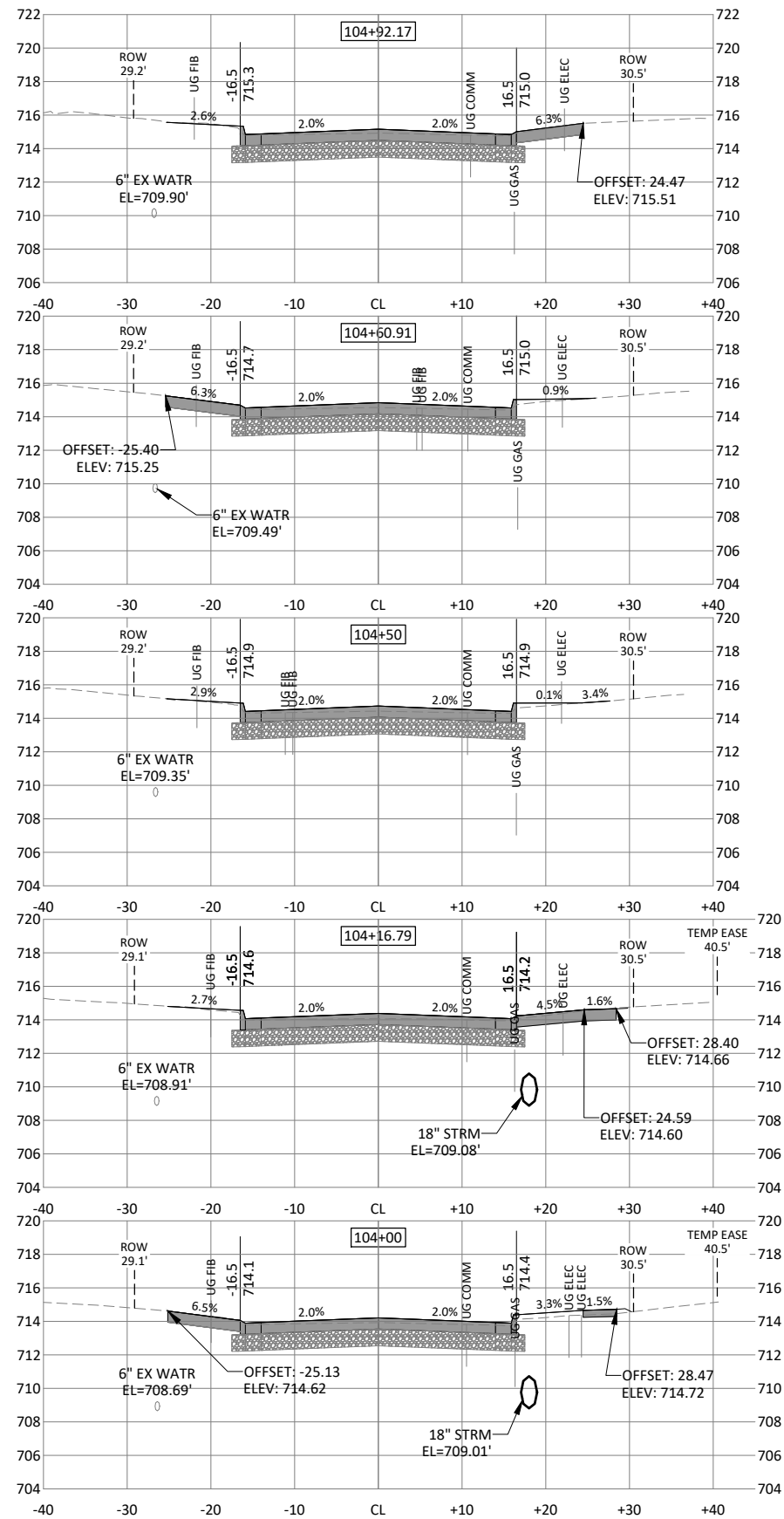
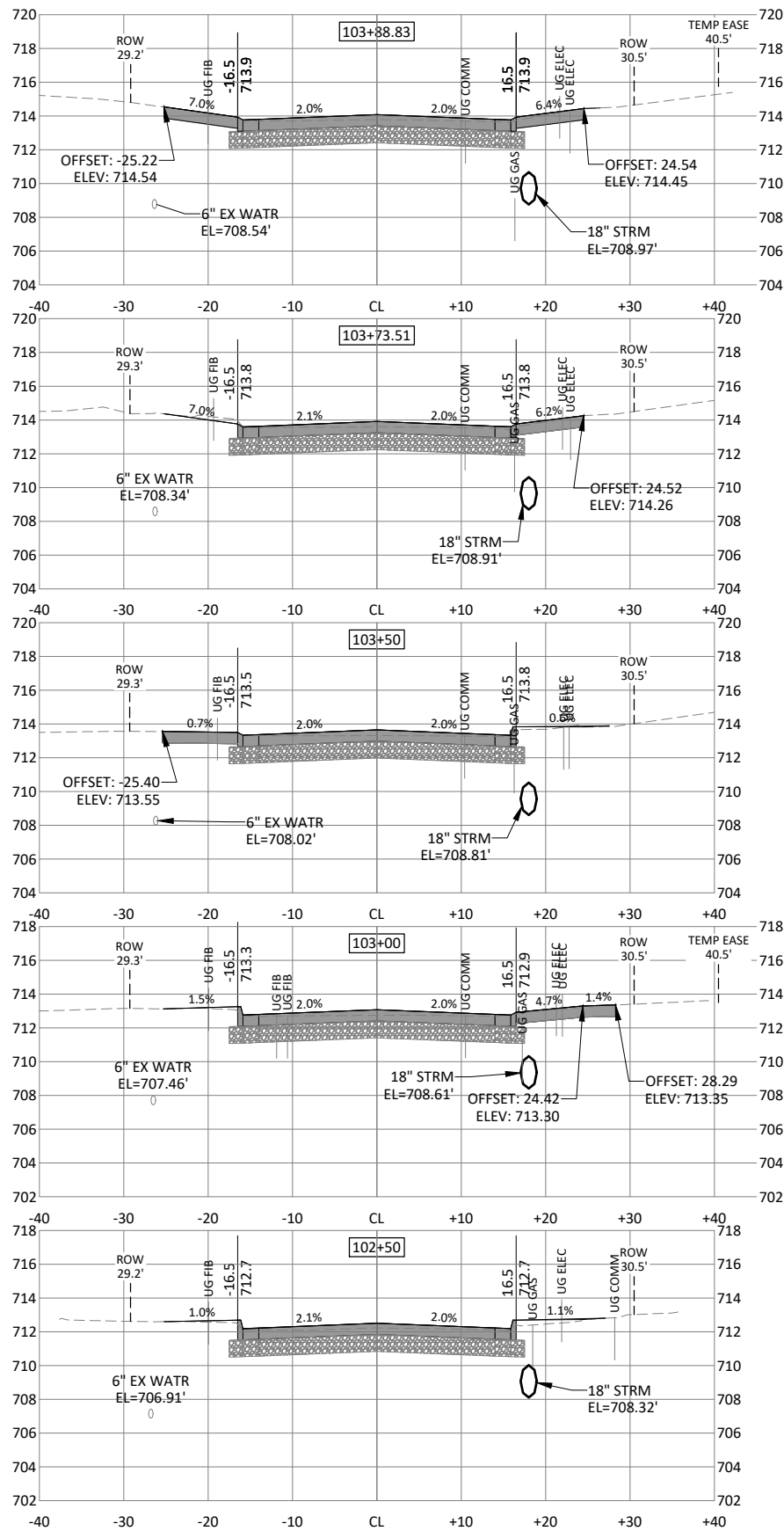
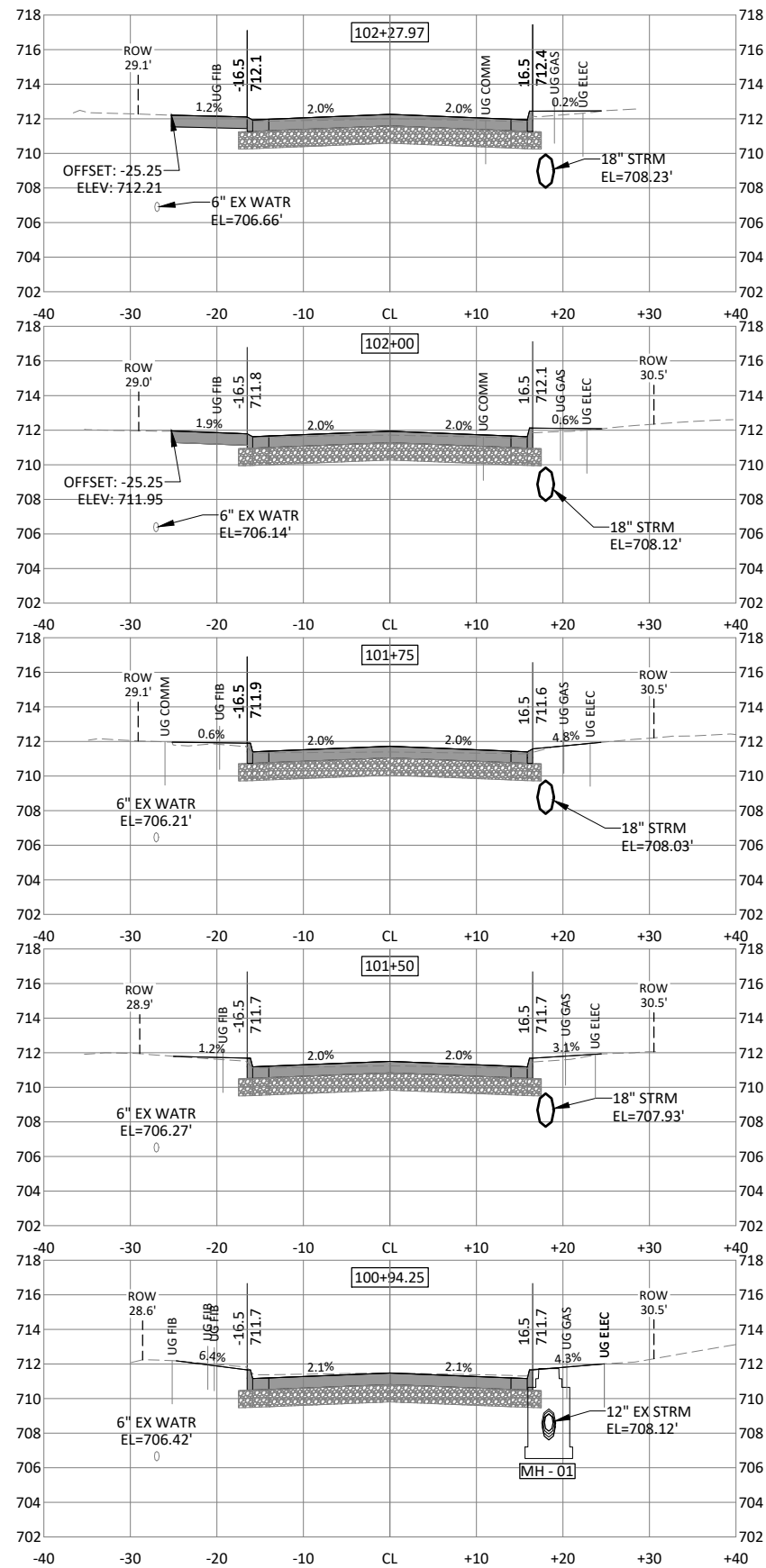
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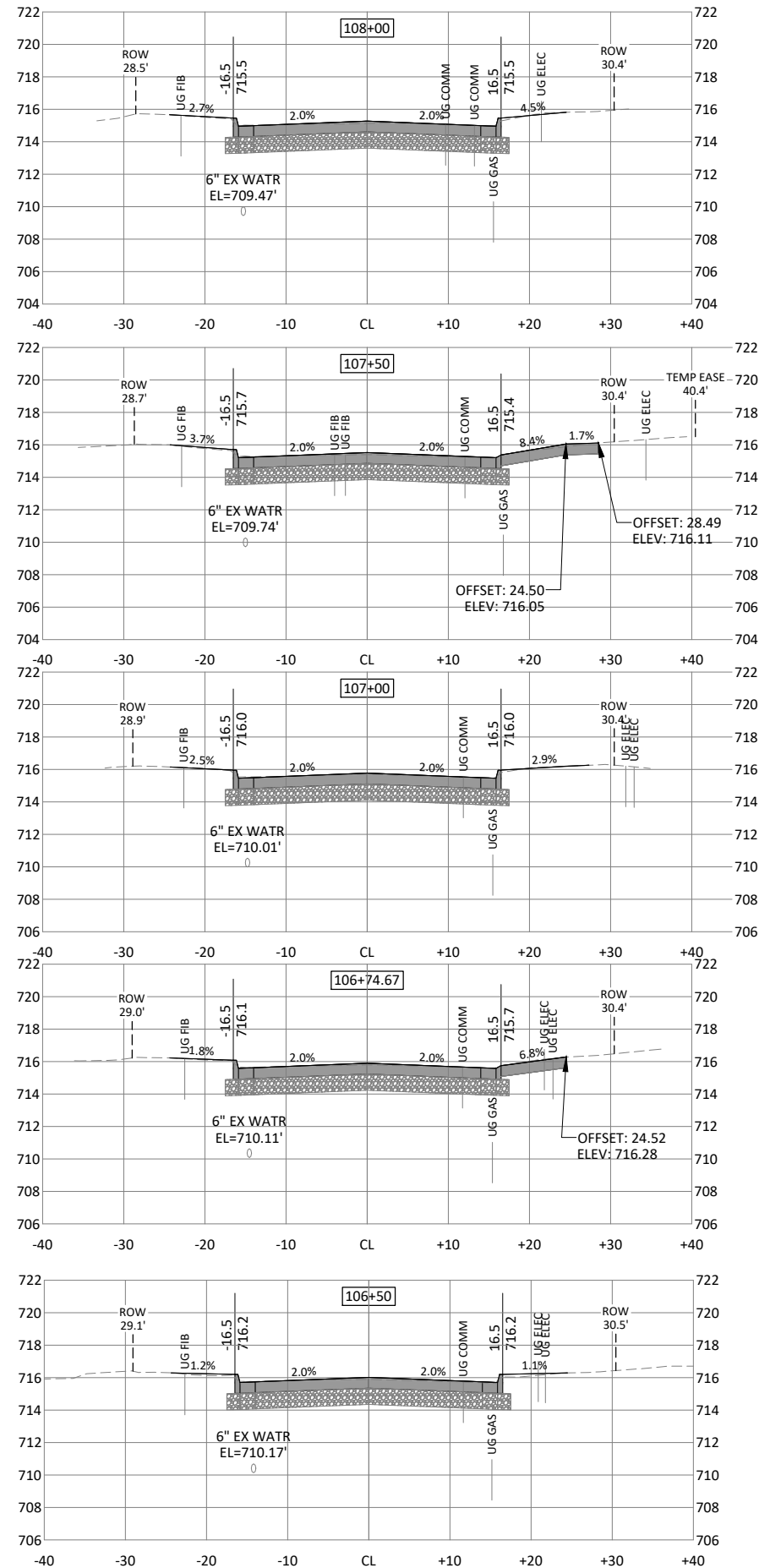
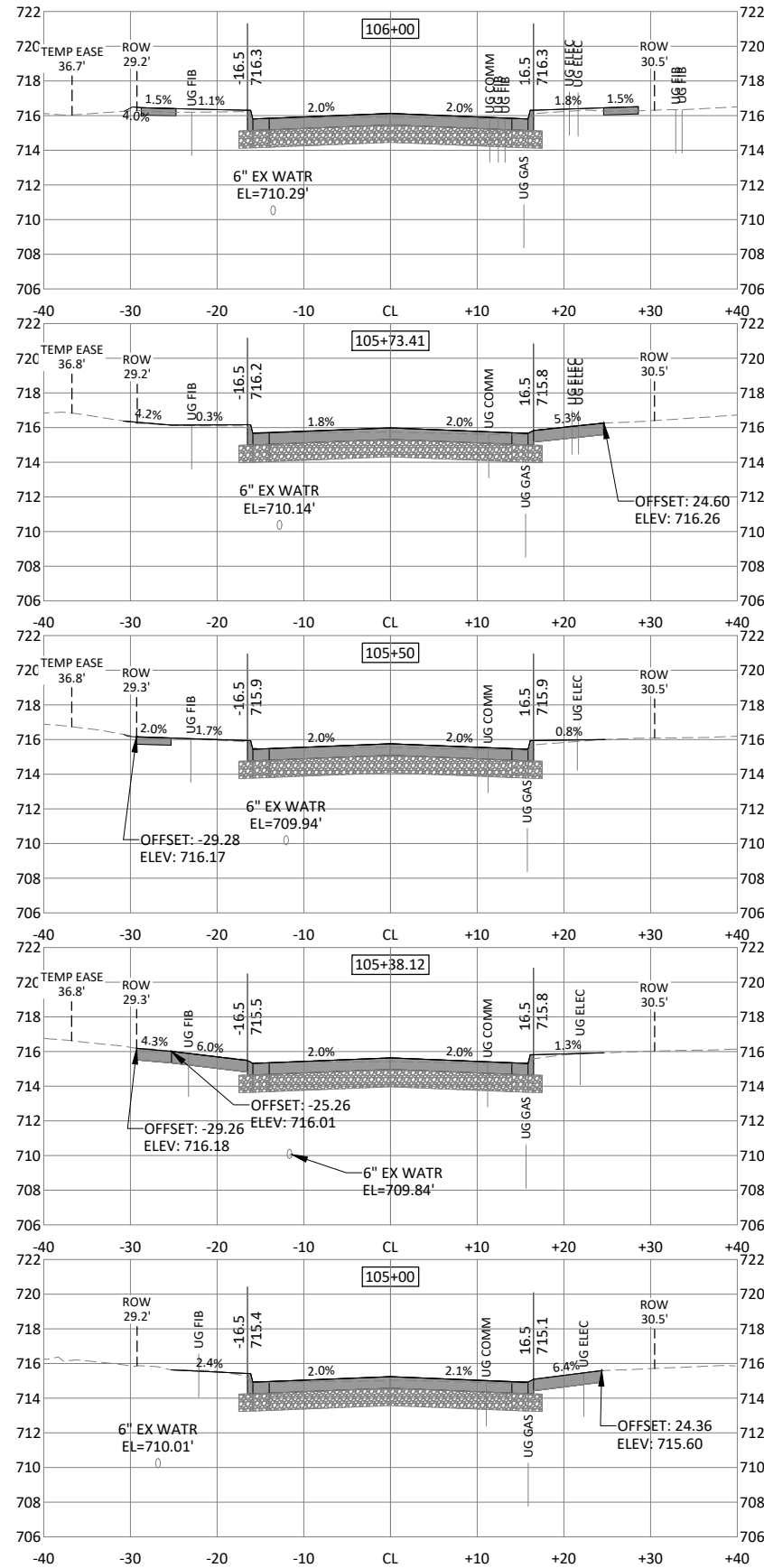
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FULLIAM AVE RECONSTRUCTION - PHASE 3
MAINLINE CROSS-SECTIONS

SHEET

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MAINLINE CROSS-SECTIONS

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