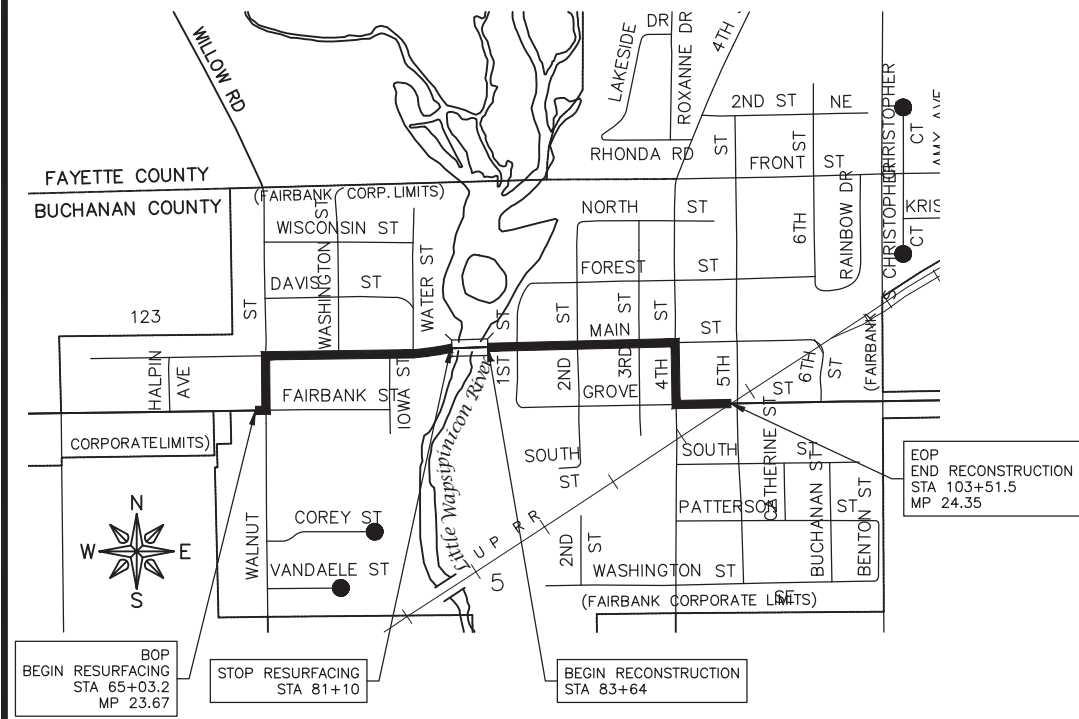


PCC PAVEMENT - REPLACE
STPN-281-2(10)--2J-10

CITY OF FAIRBANK, IOWA BUCHANAN CO.

LETTING DATE
JAN 18, 2023



PLANS OF PROPOSED IMPROVEMENTS FOR THE
PRIMARY ROAD SYSTEM
CITY OF FAIRBANK, IOWA
BUCHANAN COUNTY

PCC PAVEMENT - REPLACE
IOWA 281 IN FAIRBANK

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.15 of the Specifications.

04-30-02	101-5
DESIGN DATA URBAN	
2023 AADT	2400 V.P.D.
2043 AADT	2600 V.P.D.
TRUCKS	13 %
Total Design ESALs	-

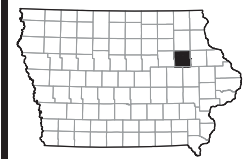
This project is covered by U.S. Army Corps of Engineers Nationwide Permit No. N/A

This project is covered by Iowa DNR Floodplain Construction Permit No. 2022-1591FP-01

This project is covered by the Iowa Department of Natural Resources NPDES General Permit No. 2. The contractor shall carry out the terms and conditions of General Permit No. 2 and the storm water pollution prevention plan which is part of these contract documents. Refer to Section 2602 of the Standard Specifications for additional information.

OWNER/DEV	CITY OF FAIRBANK
ADDRESS	116 EAST MAIN STREET
	P.O. BOX 447
P#	(319) 635-2869

CITY ADMINISTRATION	
MAYOR.....	BILL COWELL
COUNCIL MEMBERS.....	ANDREW WILLIAMS
	TAMMY ERICKSON
	TYLER WOODS
	MATT COFFIN
	RON WOODS
CITY CLERK.....	BRITTANY FULLER



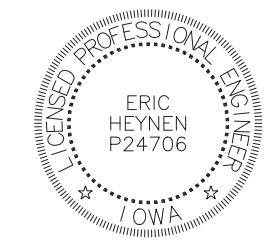
REVISIONS	STATE	FHWA REGION	F.Y.	SHEET	TOTAL
	IOWA	7			132
PROJECT IDENTIFICATION NUMBER					
20-10-281-010					
R.O.W. PROJECT NUMBER					
STPN-281-2(9)--2J-10					
PROJECT NUMBER					
STPN-281-2(10)--2J-10					

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
PROJ. No. 22-1100

INDEX OF SHEETS		105-3 10-18-05
No.	Description	
A.01	TITLE SHEET	
A.02	LEGEND	
A.03-A.04	SITE MAP	
B.01-B.08	TYPICAL CROSS SECTION	
C.01-C.04	ESTIMATED PROJECT QUANTITIES & REFERENCE INFORMATION	
C.05-C.17	TABULATIONS	
D.01-D.09	GRADING PLAN & PROFILE	
D.10-D.14	PAVEMENT MARKINGS	
G.01	BENCHMARKS & CENTERLINE DATA	
H.01-H.05	RIGHT-OF-WAY AND ACQUISITIONS	
J.01-J.15	TRAFFIC CONTROL	
L.01-L.23	GEOMETRIC AND STAKING DETAILS	
M.01-M.04	WATER MAIN PLAN & PROFILE	
M.05-M.13	STORM SEWER PLAN & PROFILE	
P.01-P.10	LIGHTING PLAN	
RC.01-RC.04	EROSION CONTROL PLAN	
U.01-U.04	REMOVAL PLAN	
U.05-U.08	DETAILS	
W.01-W.10	CROSS SECTIONS	
132	TOTAL SHEETS	

CITY OF FAIRBANK, IOWA
THIS ENGINEERING DOCUMENT IS RECOMMENDED FOR FILING WITH THE MAYOR.

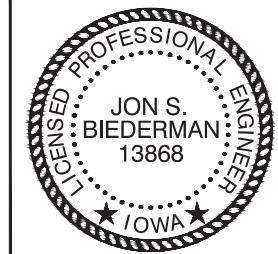
William Cowell 10/27/2022
MAYOR DATE



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.

Eric Heynen 10/27/2022
ERIC HEYNEEN REG. NO. P24706 DATE
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2023.

PAGES OR SHEETS COVERED BY THIS SEAL:
"P" LIGHTING 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.

Jon S. Biederman 10/27/2022
Jon S. Biederman, P.E. Date
License Number 13868
My license renewal date is December 31, 2022.
Pages or sheets covered by this seal: A-M and RC-W SHEETS



ABBREVIATIONS

<	ANGLE
ABC	AGGREGATE BASE COURSE
ACI	ACRE(S)
AGC	AMERICAN CONCRETE INSTITUTE
AGR	AGROGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ARCH	ARCHITECT
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
B	BALL VALVE
BFP	BACKFLOW PREVENTER
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCKING
BM	BENCHMARK
BOT	BOTTOM
BSMT	BASEMENT
BV	BUTTERFLY VALVE
B-B	BACK-TO-BACK OF CURB DIMENSION
CL or C	CENTERLINE
C TO C	CENTER TO CENTER
C & G	CURB AND GUTTER
CF	CUBIC FEET
CHD	CHORD LENGTH
CI	CAST IRON PIPE
CHK	CHECK VALVE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CTY	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
C-B	CENTERLINE TO BACK OF CURB DIMENSION
COORD	COORDINATE
CU	COPPER PIPING
CTRS	CENTERS
CY	CUBIC YARDS
CS	CORPORATION STOP
D	DEGREE OF CURVE
DEP	DEPRESSED
DET	DETAIL
DIAG	DIAGONAL
DIM	DIMENSION
DI	DUCTILE IRON PIPE
DN	DOWN
DNSTR	DOWNSTREAM
DP	DRAINAGE PIPE/STORM PIPE
DWG	DRAWING
E	EAST
EJ	EXPANSION JOINT
EL	ELEVATION
EP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EW	EACH WAY
EXP	EXPANSION
EX, EXIST	EXISTING
EXT	EXTERIOR
E =	EXTERNAL DISTANCE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIELD ENTRANCE
FF	FINISH FLOOR
FIL	FILLET
FIN	FINISH
FL	FLOW LINE
FLR	FLOOR
FM	FORCE MAIN
FND	FOUND
FRMG	FRAMING
FTG	FOOTING
F-F	FACE TO FACE
GA	GAUGE
GI	GALVANIZED IRON PIPE
GRD	GRADE
GRS	GRATING SUPPORT
GRT	GROUT
GV	GAS VALVE
GYP	GYPSUM
HSE	HOUSE
HC	HORIZONTAL CURVE
HMA	HOT MIX ASPHALT
HNGR	HANGER
HORIZ	HORIZONTAL
H.P.	HIGH POINT
HW	HOT WATER
HWH	HOT WATER HEATER
Δ =	CENTRAL ANGLE
I	MOMENT OF INERTIA
ID	INSIDE DIAMETER
INT	INTERIOR
INV	INVERT ELEVATION; BASED ON BENCH MARK DATUM
IP	IRON PIPE
JST	JOIST
L	LENGTH OF CURVE
LAT	LATERAL
LAV	LAVATORY
LF	LINEAL FEET
L.P.	LOW POINT
MAX	LEFT OF SURVEY BASE LINE
ME	MAXIMUM
MH	MATCH EXISTING MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MTL	METAL
N	NORTH
No. OR #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OO	OUTSIDE TO OUTSIDE
OPNG	OPENING
OPP	OPPOSITE
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PCF	POUNDS PER CUBIC FOOT
PDP	PERFORATED DRAIN PIPE

PE	POLYETHYLENE PIPE
PI	POINT OF INTERSECTION
PL	PLATE
PLG	PLUG VALVE
PLP	POLYPROPYLENE PIPE
PLYWD	PLYWOOD
PM	PRINCIPAL MERIDIAN
PR	PRESSURE REGULATORS
PRC	POINT OF REVERSE CURVATURE
PRESS	PRESSURE
PR, PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PIPE SLEEVE
PT	POINT OF TANGENCY
PLG	PLUG VALVE
PVC	POLYVINYL CHLORIDE (PLASTIC) PIPE
R	RADIUS
RDCR	REDUCER
RCCP	REINFORCED CONCRETE CYLINDER PIPE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REINF	REINFORCING
REQD	REQUIRED
ROW	RIGHT OF WAY
RFTR	RAFTER
RND	ROUND
RR	RAILROAD
RRSP	RAILROAD SPIKE
RT	RIGHT
R&R	REMOVE AND REPLACE
S	SOUTH
SB	STREAM BED
SCHED	SCHEDULE
SEC	SECTION
SF	SQUARE FEET
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING
SP	SANITARY PIPE
SPA	SPACING OR SPACES
SPEC	SPECIFICATION
SQ	SQUARE
SS	SANITARY SERVICE
STA	STATION
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SW	SIDEWALK
SY	SQUARE YARDS
SYM	SYMMETRICAL
TAN	TANGENT LENGTH
TBC	TOP BACK OF CURB
TBM	TEMPORARY BENCH MARK; BASED ON BENCHMARK DATUM
TD	TILE DRAIN
THK	THICK
TR	TREAD
TY	TYPE
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UP	UTILITY POLE
UPSTR	UPSTREAM
UR	URINAL
USGS	US GEOLOGICAL SURVEY
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VOL	VOLUME
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPT	VERTICAL POINT OF TANGENCY
W	WEST
WC	WATER CLOSET
WF	WIDE FLANGE
WM	WATER MAIN
WMQ	WATER MAIN QUALITY
WV	WATER VALVE
WGT	WEIGHT
WP	WEATHER PROOF
WS	WATER SERVICE
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
XP	EXPLOSION PROOF

HATCH PATTERNS

	EARTH - FILL		BRICK
	EARTH - UNDISTURBED		STEEL
	ROCK (GEOLOGICAL)		INSULATION (LOOSE/ BATT)
	STONE OR RIP RAP		INSULATION (RIGID)
	GRAVEL		WOOD (ROUGH)
	CONCRETE		WOOD (BLOCKING)
	CONCRETE BLOCK		WOOD (FINISH)
	CMU		DETECTABLE WARNING
	ASPHALT PAVEMENT		

SYMBOLS

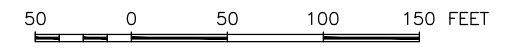
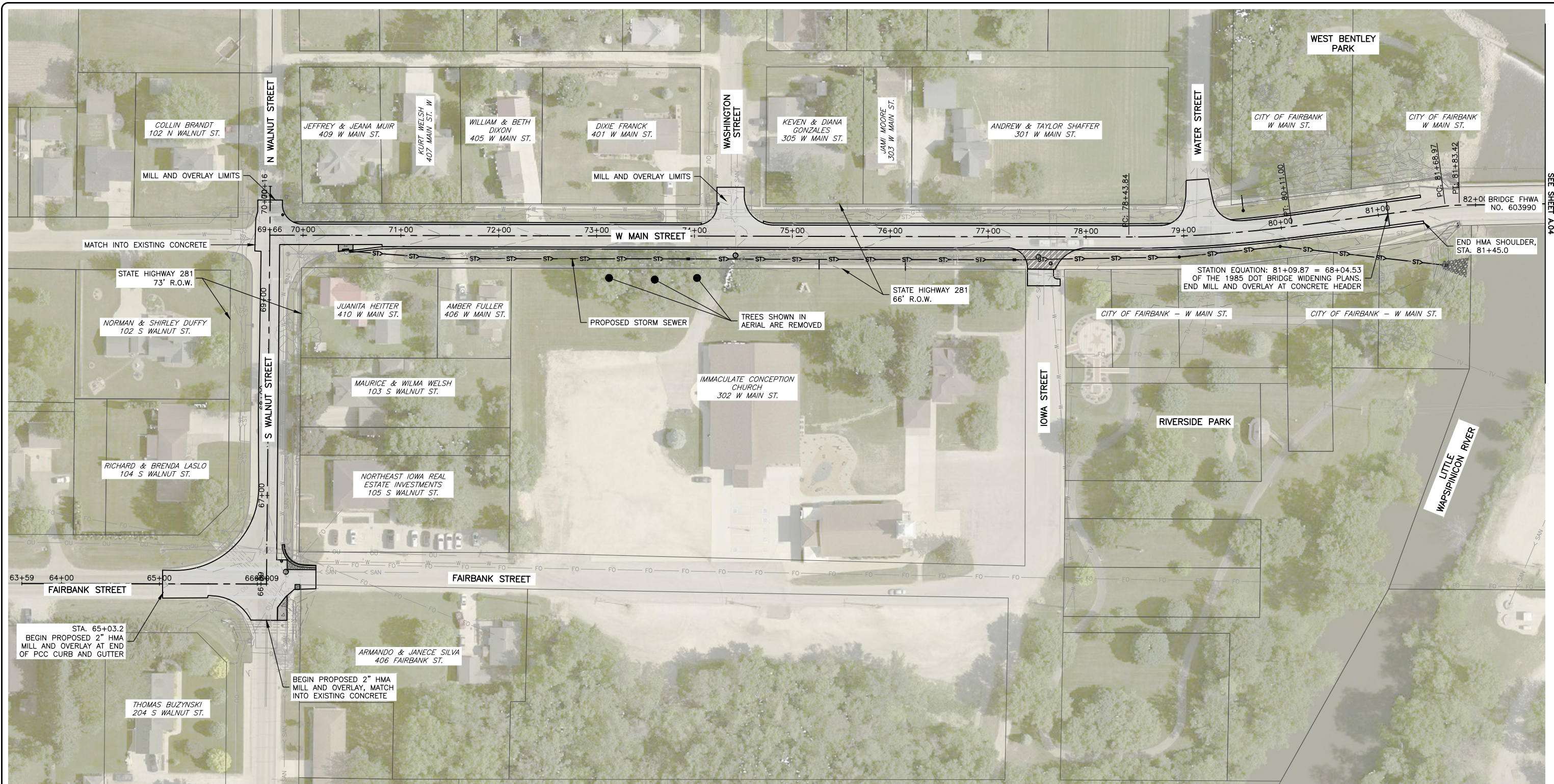
	CIVIL	
	WATER	
	STORM SEWER	
	EROSION CONTROL	
	MISC	
	SANITARY SEWER	

	UTILITY	
	STORM SEWER	
	EROSION CONTROL	
	TRAFFIC RELATED	

	TRAFFIC RELATED	
--	------------------------	--

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING: LEGEND	SET TYPE: BID LETTING
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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

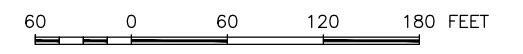
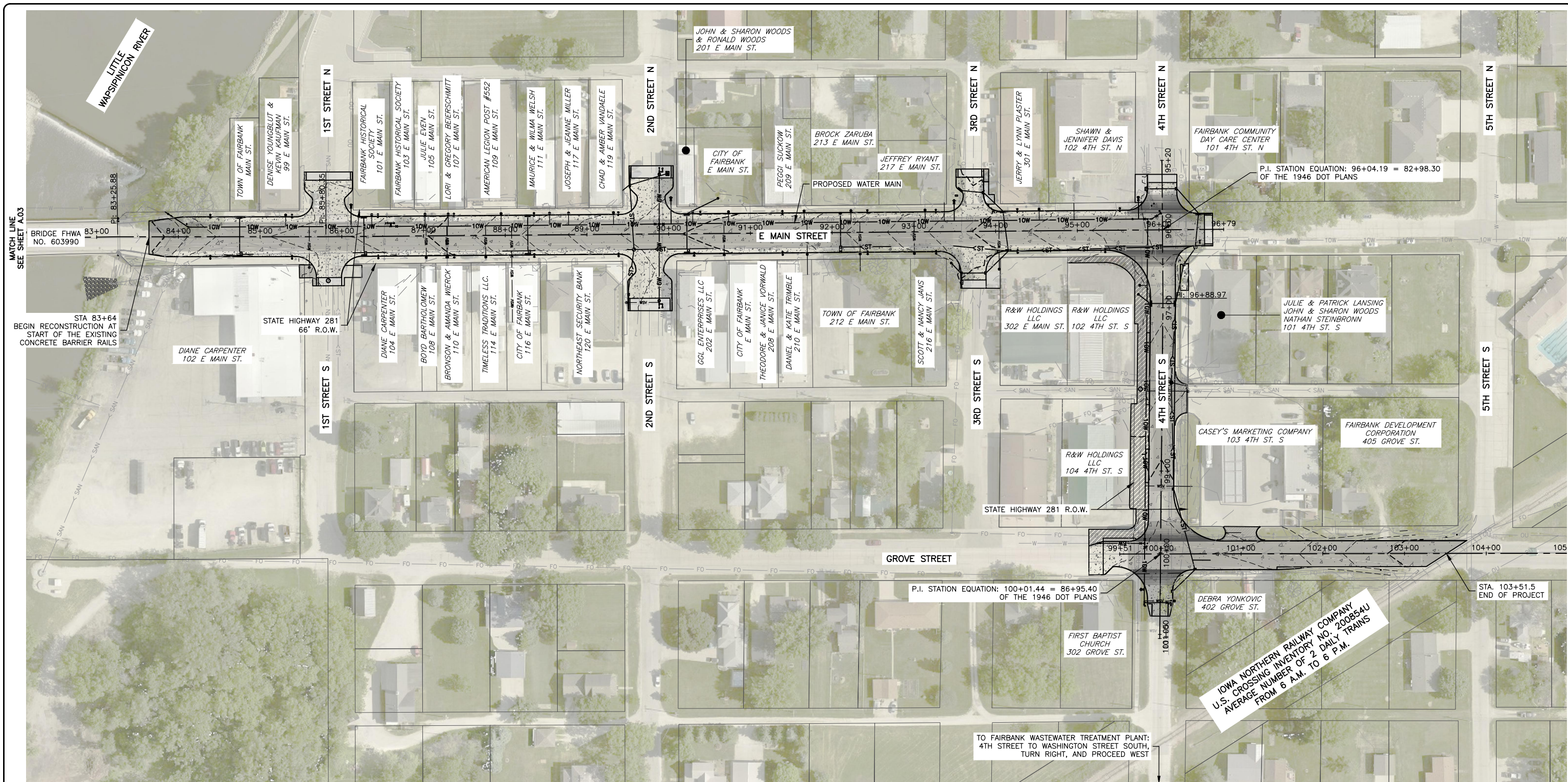
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REV. NO.	DESCRIPTION	DATE

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SITE MAP

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JOB NUMBER:
22-1100

SHEET NUMBER:
A.03



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ENGINEERING & ENVIRONMENTAL

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116 EAST MAIN STREET
FAIRBANK, IA 50629

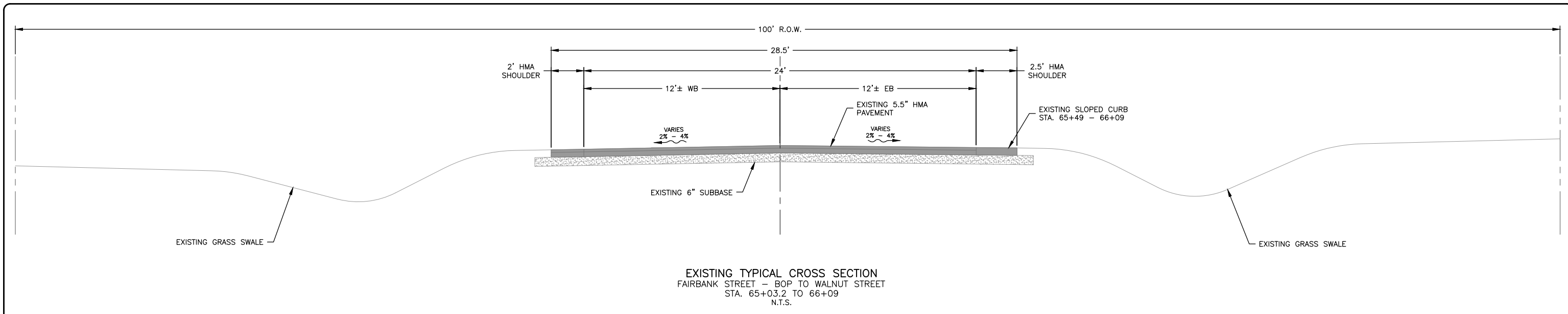
PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

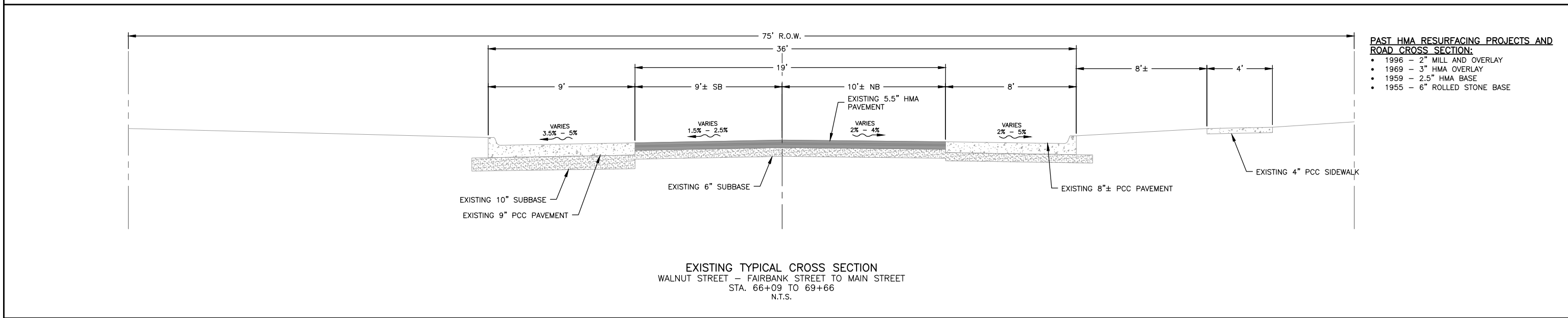
REVISIONS		
REV. NO.	DESCRIPTION	DATE

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22-1100
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A.04

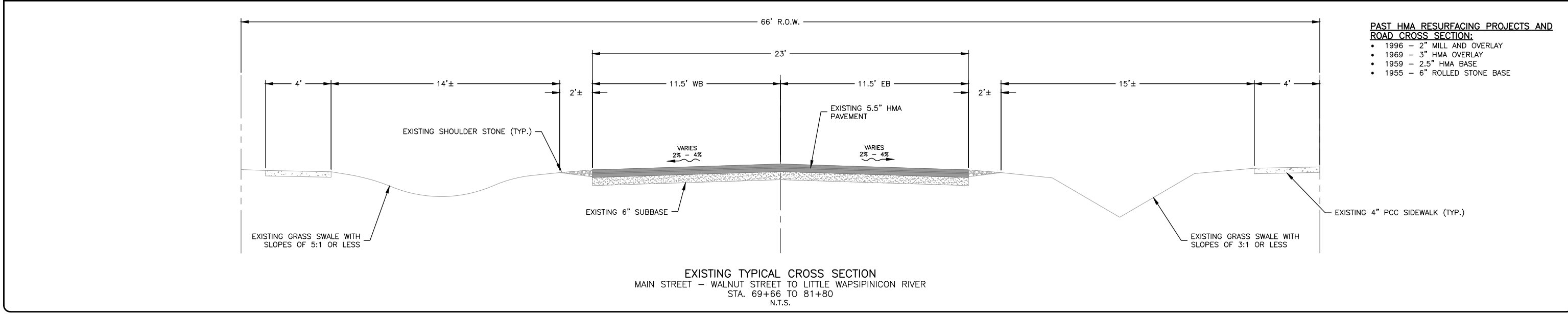


EXISTING TYPICAL CROSS SECTION
 FAIRBANK STREET - BOP TO WALNUT STREET
 STA. 65+03.2 TO 66+09
 N.T.S.



- PAST HMA RESURFACING PROJECTS AND ROAD CROSS SECTION:**
- 1996 - 2" MILL AND OVERLAY
 - 1969 - 3" HMA OVERLAY
 - 1959 - 2.5" HMA BASE
 - 1955 - 6" ROLLED STONE BASE

EXISTING TYPICAL CROSS SECTION
 WALNUT STREET - FAIRBANK STREET TO MAIN STREET
 STA. 66+09 TO 69+66
 N.T.S.



- PAST HMA RESURFACING PROJECTS AND ROAD CROSS SECTION:**
- 1996 - 2" MILL AND OVERLAY
 - 1969 - 3" HMA OVERLAY
 - 1959 - 2.5" HMA BASE
 - 1955 - 6" ROLLED STONE BASE

EXISTING TYPICAL CROSS SECTION
 MAIN STREET - WALNUT STREET TO LITTLE WAPSIPINICON RIVER
 STA. 69+66 TO 81+80
 N.T.S.

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL

ILLINOIS
 IOWA
 WISCONSIN

OWNER/DEVELOPER:
 CITY OF FAIRBANK
 116 EAST MAIN STREET
 FAIRBANK, IA 50629

PROJECT AND LOCATION:
 MAIN STREET IMPROVEMENTS
 FAIRBANK, IOWA
 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

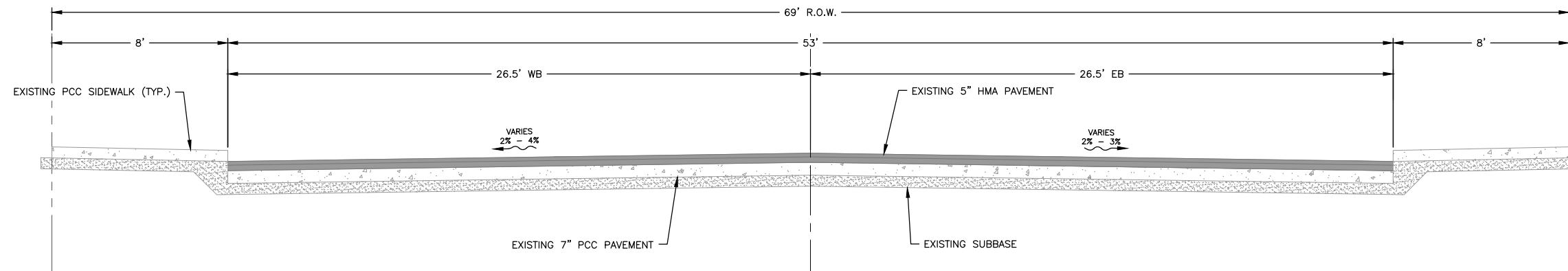
REVISIONS		
REV. NO.	DESCRIPTION	DATE

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 TYPICAL CROSS SECTIONS

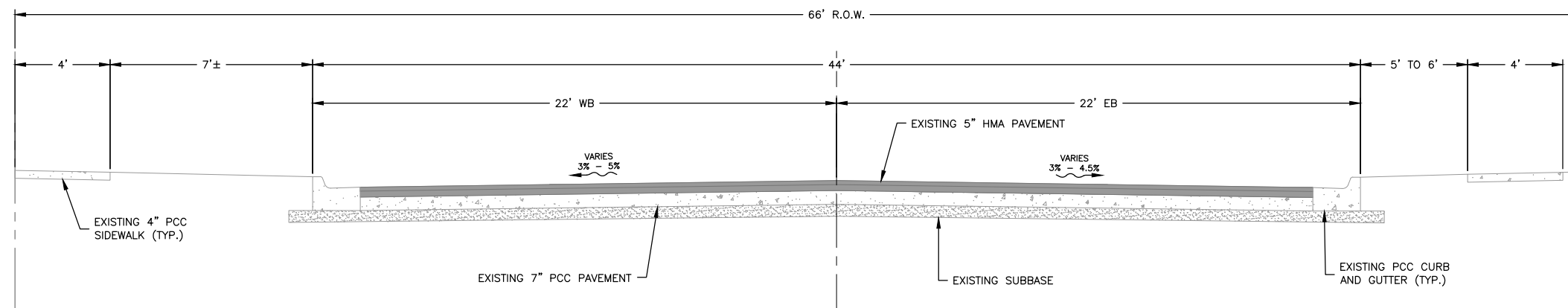
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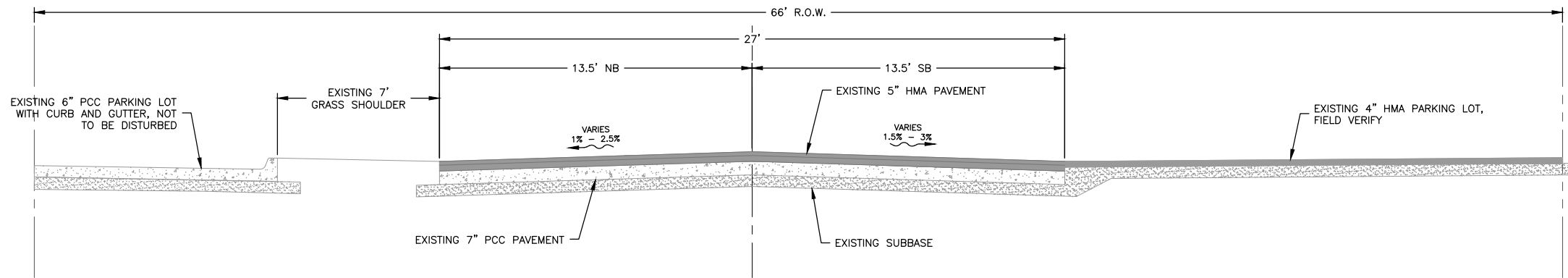


EXISTING TYPICAL CROSS SECTION
 MAIN STREET - LITTLE WAPSIPINICON RIVER TO STA. 91+66
 STA. 83+64 TO 91+66
 N.T.S.

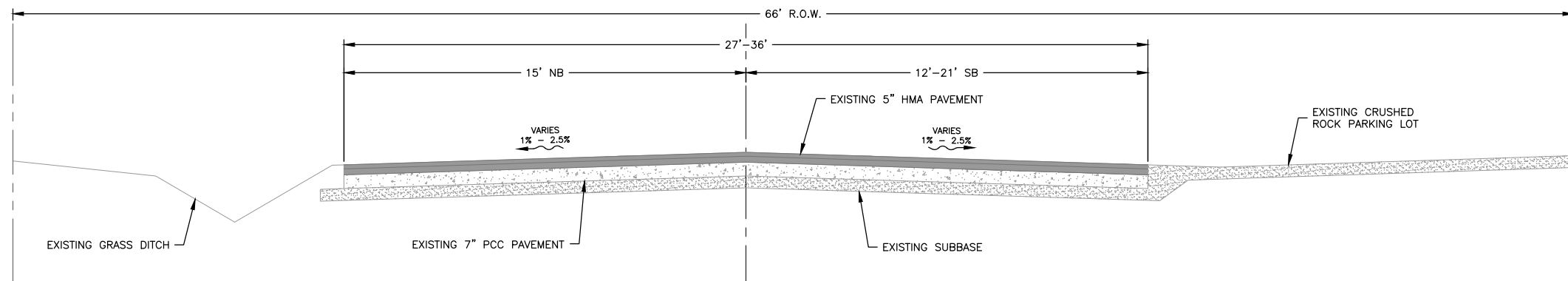


EXISTING TYPICAL CROSS SECTION
 MAIN STREET - STA. 91+91 TO 4TH STREET
 STA. 91+66 TO 96+04
 N.T.S.

REVISIONS		
REV. NO.	DESCRIPTION	DATE



EXISTING TYPICAL CROSS SECTION
 4TH STREET - MAIN STREET TO STA. 97+90
 STA. 96+04 TO 97+90
 N.T.S.



EXISTING TYPICAL CROSS SECTION
 4TH STREET - STA. 97+90 TO GROVE STREET
 STA. 97+90 TO 100+01.5
 N.T.S.

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ILLINOIS
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 WISCONSIN

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 CITY OF FAIRBANK
 116 EAST MAIN STREET
 FAIRBANK, IA 50629

PROJECT AND LOCATION:
 MAIN STREET IMPROVEMENTS
 FAIRBANK, IOWA
 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

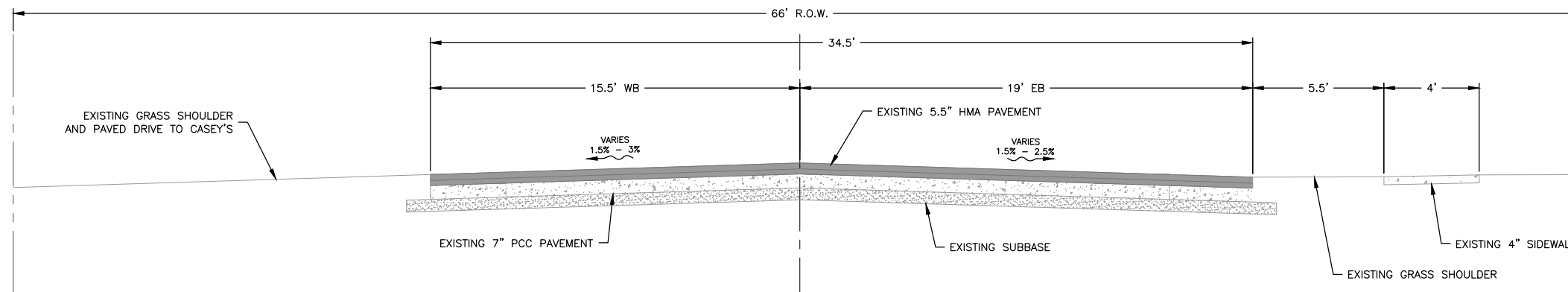
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 TYPICAL CROSS SECTIONS

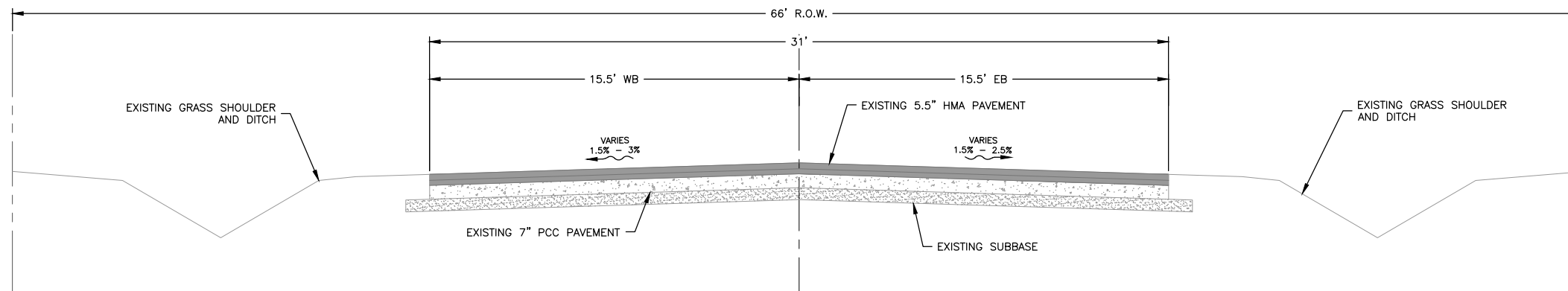
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JOB NUMBER:
 22-1100

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 B.03

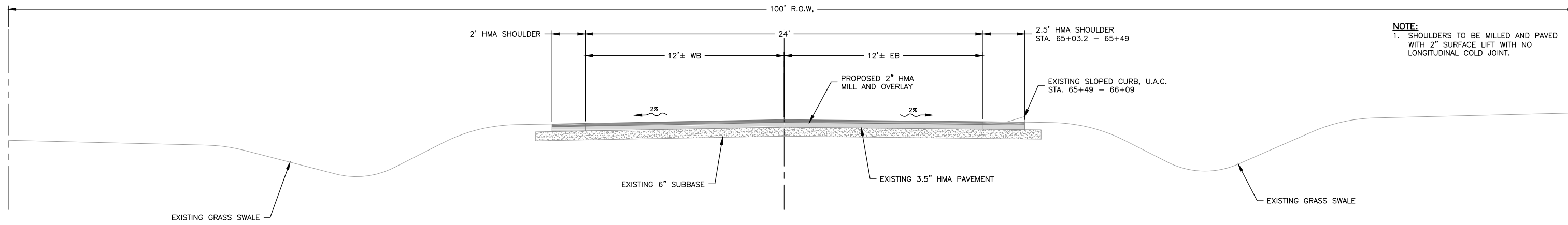


EXISTING TYPICAL CROSS SECTION
 GROVE STREET - 4TH STREET TO EASTERLY 140'
 STA. 100+01.5 TO 101+40
 N.T.S.



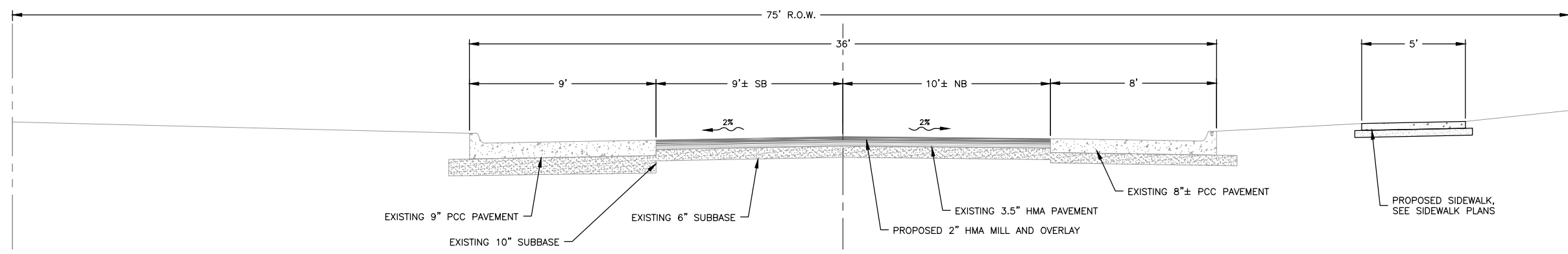
EXISTING TYPICAL CROSS SECTION
 GROVE STREET - 4TH STREET TO EASTERLY 350'
 STA. 101+40 TO 103+50
 N.T.S.

REVISIONS		
REV. NO.	DESCRIPTION	DATE



PROPOSED TYPICAL CROSS SECTION
 FAIRBANK STREET - BOP TO WALNUT STREET
 STA. 65+03.2 TO 66+09
 N.T.S.

NOTE:
 1. SHOULDERS TO BE MILLED AND PAVED WITH 2" SURFACE LIFT WITH NO LONGITUDINAL COLD JOINT.



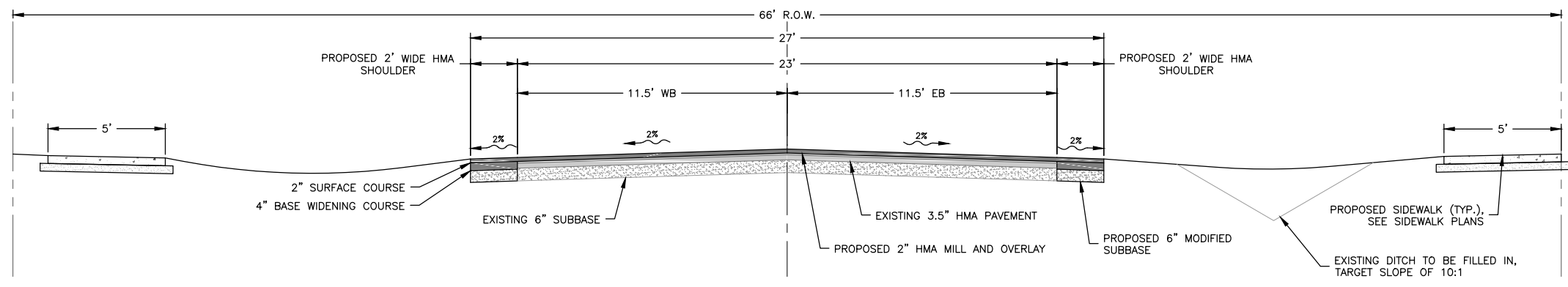
PROPOSED TYPICAL CROSS SECTION
 WALNUT STREET - FAIRBANK STREET TO MAIN STREET
 STA. 66+09 TO 69+66
 N.T.S.

PAST HMA RESURFACING PROJECTS AND ROAD CROSS SECTION:

- 1996 - 2" MILL AND OVERLAY
- 1969 - 3" HMA OVERLAY
- 1959 - 2.5" HMA BASE
- 1955 - 6" ROLLED STONE BASE

NOTES:

1. PROFILE MILL, START AT CENTERLINE AND MILL OUT TO ACHIEVE 2% CROSS SLOPES.
2. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND DRIVEWAY DETAIL.



PROPOSED TYPICAL CROSS SECTION
 MAIN STREET - WALNUT STREET TO LITTLE WAPSIPINICON RIVER
 STA. 69+66 TO 81+80
 N.T.S.

PAST HMA RESURFACING PROJECTS AND ROAD CROSS SECTION:

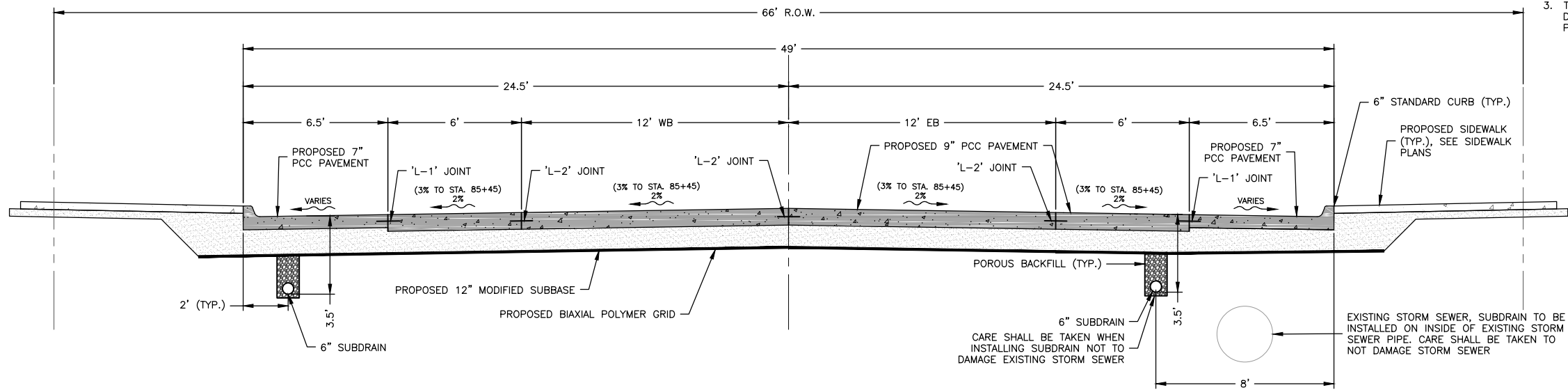
- 1996 - 2" MILL AND OVERLAY
- 1969 - 3" HMA OVERLAY
- 1959 - 2.5" HMA BASE
- 1955 - 6" ROLLED STONE BASE

NOTES:

1. PROFILE MILL, START AT CENTERLINE AND MILL OUT TO ACHIEVE 2% CROSS SLOPES
2. SURFACE COURSE TO BE PAVED AS ONE CONTINUOUS LIFT WITH ONLY ONE LONGITUDINAL JOINT AT CENTERLINE.
3. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND DRIVEWAY DETAIL.

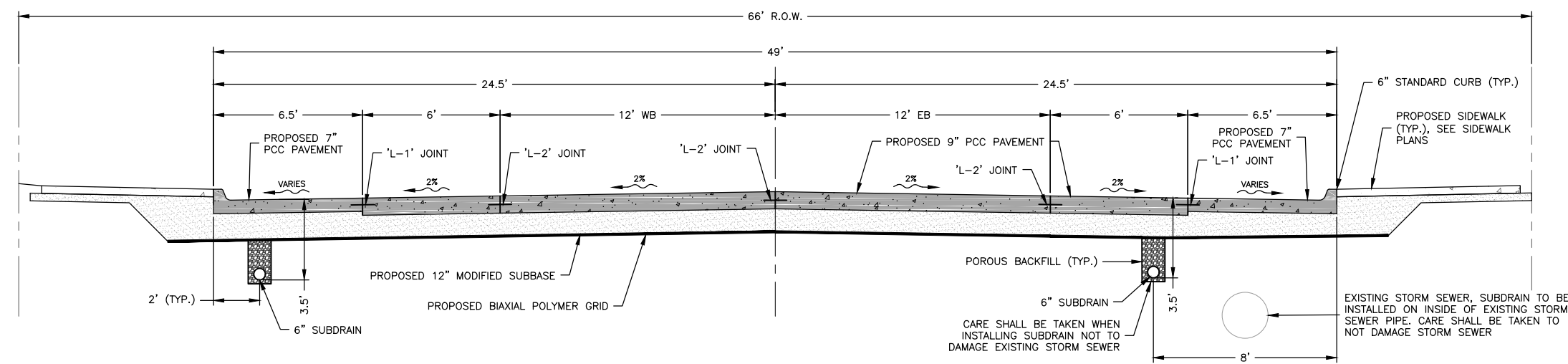
REVISIONS		
REV. NO.	DESCRIPTION	DATE

- NOTES:**
1. NOMINAL CROWN IN CENTER 36' OF THE ROADWAY TRANSITIONS FROM 3% TO 2% FROM STA. 85+45.0 TO STA. 85+83.3.
 2. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND DRIVEWAY DETAIL.
 3. THE CENTER 32' IS TO BE PAID UNDER DIVISION 2 - DOT 3R. THE REMAINDER OF THE STREET SHALL BE PAID UNDER DIVISION 1 - CITY.



PROPOSED TYPICAL CROSS SECTION
 MAIN STREET - LITTLE WAPSIPINICON RIVER TO STA. 91+60
 STA. 83+64 TO 91+66
 N.T.S.

- NOTES:**
1. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND DRIVEWAY DETAIL.
 2. THE CENTER 32' IS TO BE PAID UNDER DIVISION 2 - DOT 3R. THE REMAINDER OF THE STREET SHALL BE PAID UNDER DIVISION 1 - CITY.



PROPOSED TYPICAL CROSS SECTION
 MAIN STREET - STA. 91+60 TO 4TH STREET
 STA. 91+60 TO 96+04
 N.T.S.

NOTE:
 NO SUBDRAIN ON SOUTH SIDE OF MAIN STREET
 STA. 93+50 TO 4TH STREET.



ILLINOIS
 IOWA
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OWNER/DEVELOPER:
 CITY OF FAIRBANK
 116 EAST MAIN STREET
 FAIRBANK, IA 50629

PROJECT AND LOCATION:
 MAIN STREET IMPROVEMENTS
 FAIRBANK, IOWA
 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 TYPICAL CROSS SECTIONS

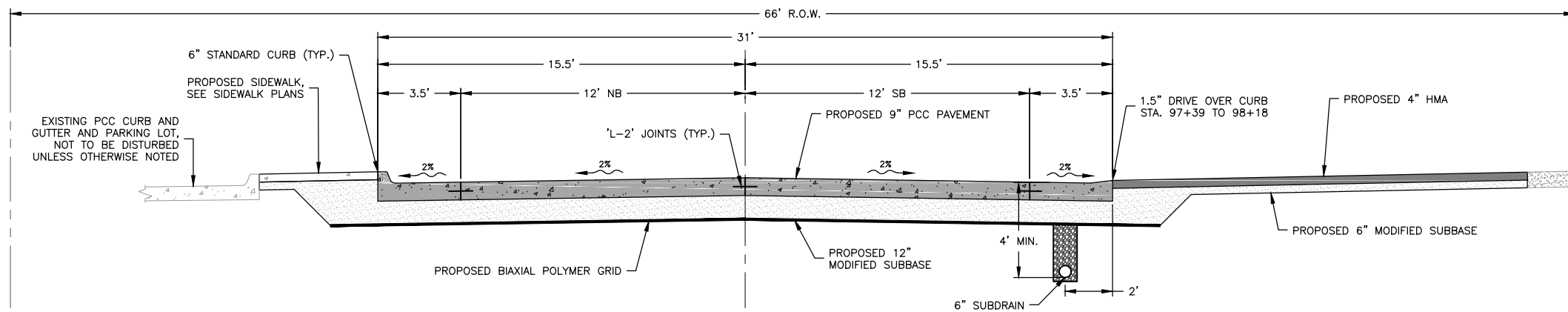
SET TYPE: BID LETTING

G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, 8.06 PR TYP

JOB NUMBER:
 22-1100

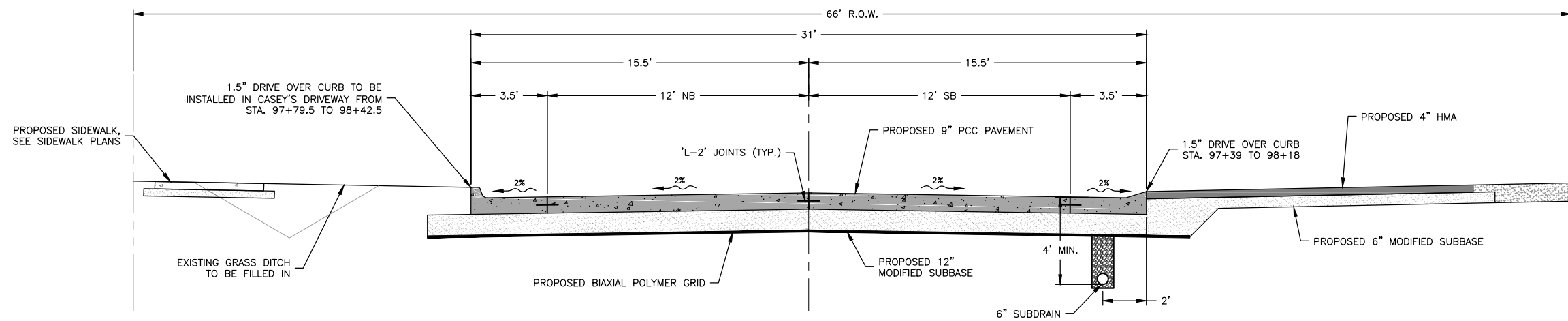
SHEET NUMBER:
 B.06

NOTE:
REFER TO SIDEWALK PLANS, PROJECT NO.
STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND
DRIVEWAY DETAIL.



PROPOSED TYPICAL CROSS SECTION
4TH STREET – MAIN STREET TO STA. 97+90
STA. 96+04 TO 97+90
N.T.S.

NOTE:
REFER TO SIDEWALK PLANS, PROJECT NO.
STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND
DRIVEWAY DETAIL.



PROPOSED TYPICAL CROSS SECTION
4TH STREET – STA. 97+90 TO GROVE STREET
STA. 97+90 TO 100+01.5
N.T.S.

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

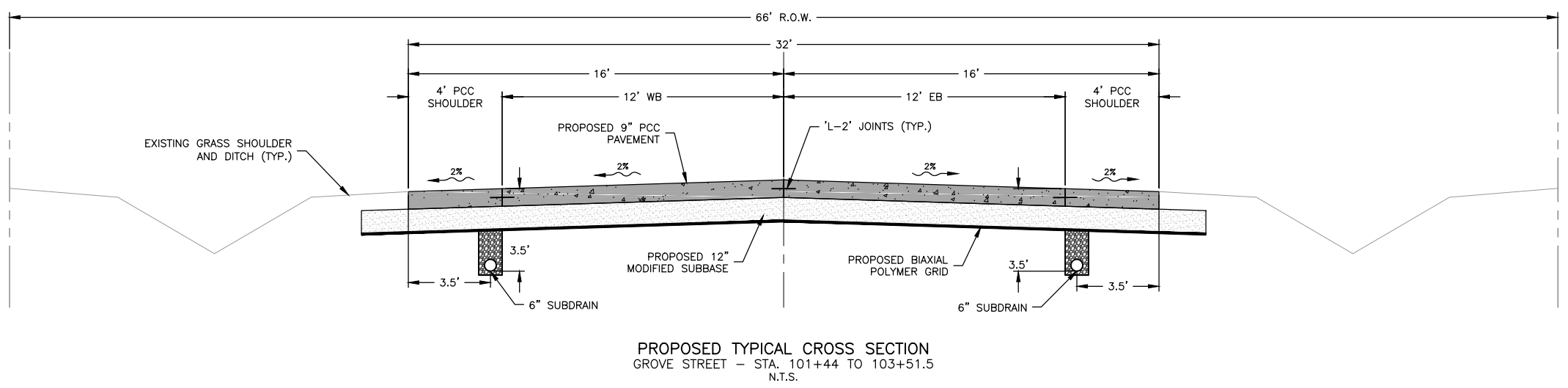
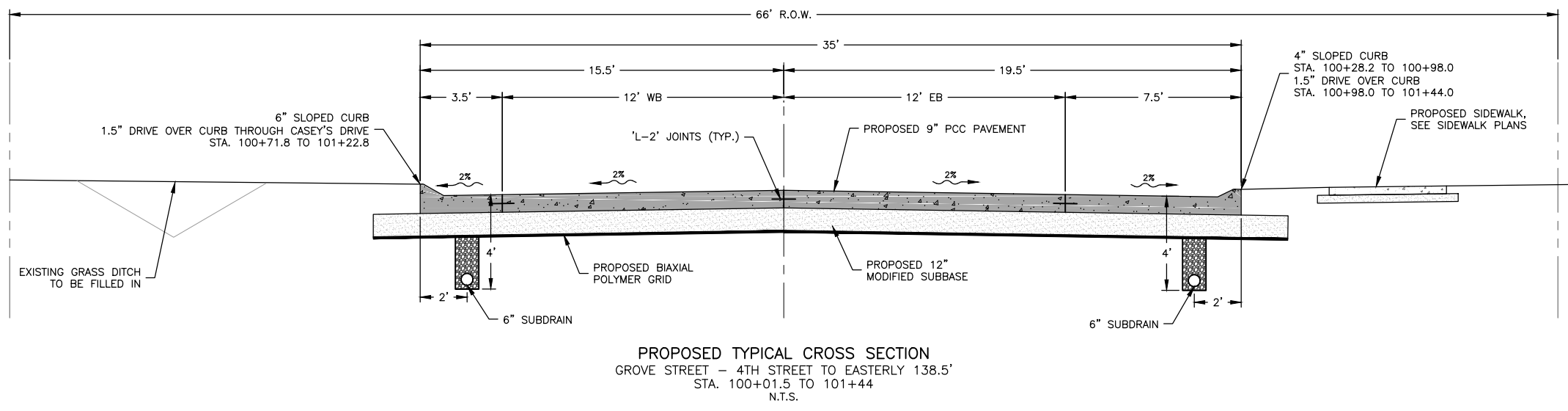
DRAWING:
TYPICAL CROSS SECTIONS

SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, B.07 PR TYP

JOB NUMBER:
22-1100

SHEET NUMBER:
B.07

NOTE:
 REFER TO SIDEWALK PLANS, PROJECT NO.
 STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND
 DRIVEWAY DETAIL.



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL

ILLINOIS
 IOWA
 WISCONSIN

OWNER/DEVELOPER:
 CITY OF FAIRBANK
 116 EAST MAIN STREET
 FAIRBANK, IA 50629

PROJECT AND LOCATION:
 MAIN STREET IMPROVEMENTS
 FAIRBANK, IOWA
 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 TYPICAL CROSS SECTIONS

SET TYPE: **BID LETTING**
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, B.08 PR TYP

JOB NUMBER:
 22-1100

SHEET NUMBER:
 B.08

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1 : City of Fairbank
Division 2 : Iowa DOT

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
1	2101-0850001	CLEARING AND GRUBBING	ACRE	0.1		0.1	CLEARING AND GRUBBING OF SHRUBS, BUSHES, AND TREES ESTIMATED TO BE 6-INCHES AND LESS IN DIAMETER ALONG THE LITTLE WAPSIPINICON RIVER BANK WHERE THE PROPOSED AND EXISTING STORM SEWER OUTLETS ARE LOCATED.
2	2102-2625000	EMBANKMENT-IN-PLACE	CY	692		692	ITEM FOR HAULING AND PLACEMENT OF EXCAVATED FILL MATERIAL TO BE PLACED IN THE EXISTING DITCH ALONG THE SOUTH SIDE OF W. MAIN STREET AND ALONG THE EAST SIDE OF 4TH STREET NEAR CASEY'S. FILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AT 6 IN. LIFTS.
3	2102-2710090	EXCAVATION, CLASS 10, WASTE	CY	1,203	2,170	3,373	ITEM IS FOR THE EXCAVATION MATERIAL FOR THE PROPOSED STREET AND DRIVES, SEE SIDEWALK PLANS BY OTHERS FOR EXCAVATION FOR SIDEWALK AND DRIVEWAYS NOT INCLUDED IN THESE PLANS. EXCAVATION ESTIMATES DO NOT INCLUDE STRIPPING OR PLACING 6-INCHES OF TOPSOIL. ESTIMATES OF EARTHWORK FOR THE PROJECT ARE AS FOLLOWS: TOTAL EXCAVATION - 3373 CY; FILL REQUIRED (SHRINKAGE FACTOR OF 1.3 USED IN CALCULATING) - 692 CY; CUT MATERIAL - 3373 CY; BALANCE - 2681 CY OF CUT. SUITABLE EXCAVATED MATERIAL SHALL BE USED AS FILL FOR THE PROJECT, IF NEEDED. EXCESS SUITABLE MATERIAL TO BE HAULED TO THE CITY WASTEWATER TREATMENT AND STOCKPILED AT A LOCATION INDICATED BY THE JURISDICTION, LOCATED ON THE WEST END OF SOUTH WASHINGTON STREET OFF OF SOUTH 4TH STREET. UNSUITABLE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AT THE COST OF THE CONTRACTOR. EXCAVATION FOR THE CENTER 32-FEET OF E. MAIN STREET, AND EXCAVATION FOR PAVEMENT ALONG 4TH STREET AND GROVE STREET TO BE PAID UNDER DIVISION 2.
4	2115-0100000	MODIFIED SUBBASE	CY	3,450	5,860	9,310	PREPARATION OF SUBGRADE SHALL BE INCIDENTAL TO THIS BID ITEM. MODIFIED SUBBASE SHALL BE 12 IN. DEPTH UNDER 9 IN. AND 7 IN. PCC PAVEMENT ALONG IA 281, 8 IN. DEPTH UNDER 7 IN. PCC PAVEMENT AND 3 IN. HMA ON SIDE STREETS, AND 6 IN. DEPTH UNDER DRIVEWAYS AND PARKING LOTS.
5	2212-0475095	CLEANING AND PREPARATION OF BASE	MILE		0.33	0.33	FOR CLEANING AND PREPARATION OF BASE ALONG W. MAIN STREET FOR MILLING OPERATIONS. BRIDGE TO BE SWEPT CLEAN AFTER ASPHALT AND CONCRETE PAVING OPERATIONS.
6	2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY		15.5	15.5	ITEM FOR FULL DEPTH PATCHES AT THE INTERSECTION OF FAIRBANK STREET AND WALNUT STREET TO REPAIR A SINKHOLE AND REMOVE PCC WITH SEALCOAT OVER TOP. PATCH TO INCLUDE 8 IN. THICK MODIFIED SUBBASE AND 3 IN. THICK HMA PAVEMENT. SEE SHEETS L.01 AND R.01 FOR FURTHER DETAIL.
7	2212-5070330	PATCHES BY COUNT (REPAIR)	EACH		2	2	ITEM FOR FULL DEPTH PATCHES AT THE INTERSECTION OF FAIRBANK STREET AND WALNUT STREET TO REPAIR A SINKHOLE AND REMOVE PCC WITH SEALCOAT OVER TOP. SEE SHEETS L.01 AND R.01 FOR FURTHER DETAIL.
8	2212-5075001	HOT MIX ASPHALT SURFACE PATCHES	TON		10	10	ITEM IS A CONTINGENT BID ITEM FOR ANY SURFACE PATCHES THAT MAY BE REQUIRED UPON COMPLETION OF MILLING OPERATIONS PRIOR TO PLACING THE 2-INCH HMA LIFT ALONG FAIRBANK STREET, WALNUT STREET, AND W. MAIN STREET.
9	2213-2713300	EXCAVATION, CLASS 13, FOR WIDENING	CY		152.4	152.4	ITEM IS FOR THE EXCAVATION MATERIAL FOR THE PROPOSED 2-FEET WIDE SHOULDER ALONG W. MAIN STREET, SEE B, D, AND L SHEETS FOR DETAILS. EXCAVATION ESTIMATES ARE FOR A 2-FEET WIDE TRENCH 1-FOOT DEEP IN ORDER TO PLACE 6-INCHES OF MODIFIED SUBBASE AND 6-INCHES OF HOT MIX ASPHALT FOR THE SHOULDER. TOTAL EXCAVATION - 152.4 CY; FILL REQUIRED - 0 CY; CUT MATERIAL - 152.4 CY; BALANCE - 152.4 CY OF CUT. SUITABLE EXCAVATED MATERIAL SHALL BE USED AS FILL FOR THE PROJECT, IF NEEDED. EXCESS SUITABLE MATERIAL TO BE HAULED TO THE CITY WASTEWATER TREATMENT AND STOCKPILED AT A LOCATION INDICATED BY THE JURISDICTION, LOCATED ON THE WEST END OF SOUTH WASHINGTON STREET OFF OF SOUTH 4TH STREET. UNSUITABLE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AT THE COST OF THE CONTRACTOR.
10	2213-8200000	BASE WIDENING, HOT MIX ASPHALT MIXTURE	TON		457	457	ITEM FOR 4 IN. THICK BASE WIDENING FOR THE 2-FEET WIDE SHOULDER ALONG W. MAIN STREET, SEE B, D, AND L SHEETS FOR DETAILS.
11	2214-5145150	PAVEMENT SCARIFICATION	SY		4,861.1	4,861.1	STREET TO BE PROFILE MILLED FROM CENTERLINE OUT TO ACHIEVE 2% CROWN, SEE D AND L SHEETS FOR FURTHER DETAIL. CONTRACTOR SHALL NOT LEAVE SCARRED HMA SURFACE EXPOSED FOR MORE THAN 5 CALENDAR DAYS. PAID PER SQUARE YARD OF MATERIAL REMOVED, REGARDLESS OF THICKNESS. PAVEMENT MILLINGS TO BE HAULED TO THE CITY WASTEWATER TREATMENT AND STOCKPILED AT A LOCATION INDICATED BY THE JURISDICTION, LOCATED ON THE WEST END OF SOUTH WASHINGTON STREET OFF OF SOUTH 4TH STREET. HAULING MILLINGS, NEATLY STOCKPILING MILLINGS, AND REGRADING THE STOCKPILE SITE TO BE FREE OF ALL RUTS TO BE INCIDENTAL TO THE BID ITEM.
12	2301-1033070	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 7 IN.	SY	3,352.7		3,352.7	FOR PAVING THE OUTER PARKING LANES AND TRANSITION AREA ALONG E. MAIN STREET AND FOR PAVING CITY SIDE STREETS, SEE B, D, AND L SHEETS FOR FURTHER DETAIL AND LOCATIONS. QUANTITY INCLUDES 6 IN. STANDARD CURB AS SHOWN ON THE B AND L SHEETS. CONTRACT UNIT PRICE PER SY, INCLUDING ALL REQUIRED REBAR AND DOWEL BAR REINFORCEMENT FOR JOINTS AND BOXOUTS, SHALL BE CONSIDERED FULL COMPENSATION FOR THE CONSTRUCTION OF PAVEMENT. NO ADDITIONAL PAYMENT WILL BE MADE IF FIELD ADJUSTMENTS ARE MADE TO JOINT OR BOXOUT LOCATIONS. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IDOT STANDARD SPECIFICATIONS.
13	2301-1033090	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9 IN.	SY		7,771.1	7,771.1	FOR PAVING THE MAINLINE PORTION OF THE STREET, SEE B, D, AND L SHEETS FOR FURTHER DETAIL AND LOCATIONS. QUANTITY INCLUDES 6 IN. STANDARD CURB AS SHOWN ON THE B AND L SHEETS. CONTRACT UNIT PRICE PER SY, INCLUDING ALL REQUIRED REBAR AND DOWEL BAR REINFORCEMENT FOR JOINTS AND BOXOUTS, SHALL BE CONSIDERED FULL COMPENSATION FOR THE CONSTRUCTION OF PAVEMENT. NO ADDITIONAL PAYMENT WILL BE MADE IF FIELD ADJUSTMENTS ARE MADE TO JOINT OR BOXOUT LOCATIONS. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IDOT STANDARD SPECIFICATIONS. THE CENTER 32-FEET ALONG E. MAIN STREET, 4TH STREET PAVING, AND PAVING ALONG GROVE STREET TO BE PAID UNDER DOT 3R DIVISION 2. THE REMAINING 9-INCH PAVING ALONG E. MAIN STREET TO BE PAID UNDER CITY DIVISION 1.
14	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LS		1	1	
15	2301-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE)	EACH		1	1	
16	2303-1042500	HOT MIX ASPHALT HIGH TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX	TON	30		30	ITEM FOR PAVING THE 1.5 IN. INTERMEDIATE ASPHALT LIFT ON CITY SIDE STREETS.
17	2303-1043504	HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-4	TON	30	590	620	ITEM FOR PAVING 2 IN. SURFACE LIFT ON W. MAIN STREET AND 1.5 IN. SURFACE LIFT ON CITY SIDE STREETS.
18	2303-1258284	ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC	TON	3.6	36.5	40.1	ITEM FOR INTERMEDIATE AND SURFACE COURSE HOT MIX ASPHALT MIXES FOR STREET PAVING. ITEM CALCULATED AT 6% OF THE ASPHALT TONNAGE.
19	2303-9093010	HOT MIX ASPHALT, DRIVEWAY	SY	981		981	ITEM FOR PAVING 3 IN. AND 4 IN. THICK HMA DRIVES AND PARKING AREAS IN TWO LIFTS. METHOD OF MEASUREMENT SHALL BE BY EACH SY OF HMA DRIVEWAY THAT IS PAVED, REGARDLESS OF THICKNESS. THE AREA OF MANHOLES, INTAKES, OR OTHER FIXTURES IN THE PAVEMENT WILL NOT BE DEDUCTED FROM THE MEASURED PAVEMENT AREA. BASIS OF PAYMENT SHALL BE AT THE CONTRACT UNIT PRICE PER SQUARE YARD OF HMA DRIVEWAY THAT IS PAVED.
20	2317-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH		1	1	
21	2401-6745356	REMOVAL OF CONCRETE FOOTINGS OF LIGHT POLES	EACH	12		12	ITEM FOR REMOVAL OF EXISTING CONCRETE LIGHT POLE FOOTINGS AND BASES, ESTIMATED TO BE 2-FEET BY 2-FEET, DEPTH IS UNKNOWN. NO MEASUREMENT SHALL BE MADE AS PAYMENT SHALL BE BY EACH FOOTING REMOVED, REGARDLESS OF SIZE AND MATERIAL. FOOTINGS TO BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF PROPERLY. SEE TABULATIONS AND R SHEETS FOR LOCATIONS.
22	2401-6745765	REMOVAL OF LIGHT POLES	EACH	16		16	SEE TABULATIONS AND R SHEETS FOR LOCATIONS. ITEM TO INCLUDE DISCONNECTING ELECTRICAL, REMOVING LIGHT POLES, REMOVAL AND/OR PLUGGING CONDUIT. PAYMENT SHALL BE BY EACH LIGHT POLE THAT IS REMOVED.
23	2416-0100018	APRONS, CONCRETE, 18 IN. DIA.	EACH	0.67	0.33	1	TO BE INSTALLED ALONG THE WEST RIVER BANK SOUTH OF W. MAIN STREET, SEE TABULATIONS AND M SHEETS FOR LOCATION.
24	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.	EACH	1		1	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR PIPE BEDDING PER SW-102 OR SW-104 AS APPROPRIATE. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
25	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN.	EACH	1		1	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR PIPE BEDDING PER SW-102 OR SW-104 AS APPROPRIATE. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
26	2435-0250100	INTAKE, SW-501	EACH	11		11	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR PIPE BEDDING PER SW-102 OR SW-104 AS APPROPRIATE. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
27	2435-0250310	INTAKE, SW-503 MODIFIED	EACH	1		1	SW-503 INTAKE TO BE MODIFIED TO CONNECT THE EXISTING STORM SEWER MAIN WITH LITTLE TO NO PIPE DEFLECTION. SEE THE TABULATIONS, M, AND U SHEETS FOR FURTHER DETAILS. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
28	2435-0250500	INTAKE, SW-505	EACH	10.67	0.33	11	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR PIPE BEDDING PER SW-102 OR SW-104 AS APPROPRIATE. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
29	2435-0250610	INTAKE, SW-506 MODIFIED	EACH	4		4	SW-506 INTAKE TO BE MODIFIED TO CONNECT THE EXISTING STORM SEWER MAIN WITH LITTLE TO NO PIPE DEFLECTION. SEE THE TABULATIONS, M, AND U SHEETS FOR FURTHER DETAILS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR PIPE BEDDING PER SW-102 OR SW-104 AS APPROPRIATE. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
30	2435-0250700	INTAKE, SW-507	EACH	1		1	SEE THE TABULATIONS AND M SHEETS FOR LOCATION. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR PIPE BEDDING PER SW-102 OR SW-104 AS APPROPRIATE. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
31	2435-0250710	INTAKE, SW-507 MODIFIED	EACH	1		1	SW-507 INTAKE TO BE MODIFIED BY ADDING A 6-INCH TALL AND 4-FEET WIDE OPENING ON THE BACK SIDE OF THE INTAKE TO ALLOW WATER FROM THE FOOD CENTER'S PARKING LOT TO DRAIN INTO THE INTAKE. SEE THE TABULATIONS, M, AND U SHEETS FOR LOCATION AND FURTHER DETAILS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR PIPE BEDDING PER SW-102 OR SW-104 AS APPROPRIATE. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
32	2435-0251110	INTAKE, SW-511 MODIFIED	EACH	2	1	3	NEENAH R-4215-C CONVEX DITCH GRATE, OR APPROVED EQUAL, TO BE USED FOR THE INTAKES ALONG W. MAIN STREET. SEE TABULATIONS AND M SHEETS FOR LOCATIONS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR PIPE BEDDING PER SW-102 OR SW-104 AS APPROPRIATE. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
33	2435-0251230	INTAKE, SW-512, 30 IN.	EACH	3	3	6	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR PIPE BEDDING PER SW-102 OR SW-104 AS APPROPRIATE. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.



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PROJECT AND LOCATION:
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FAIRBANK, IOWA
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STPN-281-2(10)--2J-10

DRAWN BY: AFC
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DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
ESTIMATED PROJECT QUANTITIES AND
REFERENCE NOTES
SET TYPE: BID LETTING
G:\30\22-1100 Fairbank Hwy 281\Plans\22-1100 C SHEETS.dwg, C.01

JOB NUMBER:
22-1100
SHEET NUMBER:
C.01

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1 : City of Fairbank
Division 2 : Iowa DOT

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated		Total	
				Division 1	Division 2		
34	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	2	3	5	FOR ADJUSTMENT OF EXISTING STRUCTURES LOCATED WITHIN PROPOSED ROADWAY AND DRIVEWAY PAVING. SEE TABULATIONS, D AND L SHEETS FOR LOCATIONS AND FURTHER DETAIL. EXISTING MANHOLE CASTINGS TO BE SALVAGED FOR THE JURISDICTION TO TAKE INTO THEIR POSSESSION. REINFORCED PCC FOR BOXOUTS TO BE 9-INCHES THICK, CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
35	2502-8212306	SUBDRAIN, STANDARD, PERFORATED, 6 IN., AS PER PLAN	LF	123.5	3,233.4	3,356.9	SEE TABULATIONS AND D AND M SHEETS FOR LOCATIONS AND ADDITIONAL INFORMATION. SUBDRAIN SHALL BE DUAL WALL HDPE WITH SLOTS OR PERFORATIONS ACCORDING TO AASHTO M 252, TYPE SP. SUBDRAIN OUTLETS SHALL BE CONNECTED TO PROPOSED STORM SEWER STRUCTURES, CONNECTIONS TO INTAKE STRUCTURES SHALL BE PAID FOR SEPARATELY UNDER BID ITEM DR-303 FOR SUBDRAIN OUTLETS.
36	2502-8212406	SUBDRAIN, STANDARD, NON-PERFORATED, 6 IN., AS PER PLAN	LF	348.1		348.1	SEE TABULATIONS AND D AND M SHEETS FOR LOCATIONS AND ADDITIONAL INFORMATION. SUBDRAIN SHALL BE DUAL WALL HDPE WITH SLOTS OR PERFORATIONS ACCORDING TO AASHTO M 252, TYPE SP. SUBDRAIN OUTLETS SHALL BE CONNECTED TO PROPOSED STORM SEWER STRUCTURES, CONNECTIONS TO INTAKE STRUCTURES SHALL BE PAID FOR SEPARATELY UNDER BID ITEM DR-303 FOR SUBDRAIN OUTLETS.
37	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	18	30	48	ITEM FOR CONNECTING SUBDRAIN AND DOWNSPOUT TILES TO STORM SEWER STRUCTURES. CONNECTIONS MADE TO NEW INTAKES SHALL BE COMPLETED PER IOWA DOT STANDARD SPECIFICATION 2502 AND IOWA DOT STANDARD ROAD PLAN DR-303. SUBDRAIN OUTLETS INTO DITCHES SHALL BE PAID FOR SEPARATELY UNDER THE DR-306 BID ITEM. SUBDRAIN CLEANOUTS TO BE PAID FOR SEPARATELY UNDER THE '('EACH' ITEM) SUBDRAIN CLEANOUT' BID ITEM. SEE TABULATIONS AND D AND M SHEETS FOR LOCATIONS AND ADDITIONAL INFORMATION.
38	2503-0114212	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 12 IN.	LF	64	16	80	ITEM ALSO FOR CORE DRILLING AND CONNECTING SUBDRAIN AND DOWNSPOUT TILES TO EXISTING OR PROPOSED RCP STORM SEWER PIPES. SOIL TIGHT CONNECTIONS TO BE MADE, INSERTA TEE CONNECTION, PREFABRICATED TEE, OR APPROVED EQUAL SHALL BE USED TO CONNECT DRAIN TILE AND STORM SEWER LATERALS TO ADJACENT PROPOSED OR EXISTING RCP STORM SEWER MAINS.
39	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 15 IN.	LF	989	115	1,104	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. INSULATION REQUIRED TO BE INSTALLED BETWEEN PROPOSED STORM SEWER AND EXISTING SANITARY SEWER SHALL BE INCIDENTAL TO THE INSTALLATION OF THE STORM SEWER. C-COLLAR CONNECTIONS TO EXISTING STORM SEWER PIPES TO BE INCIDENTAL TO THE STORM SEWER PIPE INSTALLATION. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR PIPE BEDDING PER SW-102 AS APPROPRIATE. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
40	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 18 IN.	LF	1,099	258	1,357	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. INSULATION REQUIRED TO BE INSTALLED BETWEEN PROPOSED STORM SEWER AND EXISTING SANITARY SEWER SHALL BE INCIDENTAL TO THE INSTALLATION OF THE STORM SEWER. C-COLLAR CONNECTIONS TO EXISTING STORM SEWER PIPES TO BE INCIDENTAL TO THE STORM SEWER PIPE INSTALLATION. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR PIPE BEDDING PER SW-102 AS APPROPRIATE. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
41	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.	LF	390		390	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. INSULATION REQUIRED TO BE INSTALLED BETWEEN PROPOSED STORM SEWER AND EXISTING SANITARY SEWER SHALL BE INCIDENTAL TO THE INSTALLATION OF THE STORM SEWER. C-COLLAR CONNECTIONS TO EXISTING STORM SEWER PIPES TO BE INCIDENTAL TO THE STORM SEWER PIPE INSTALLATION. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR PIPE BEDDING PER SW-102 AS APPROPRIATE. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
42	2503-0114230	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 30 IN.	LF	195		195	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. INSULATION REQUIRED TO BE INSTALLED BETWEEN PROPOSED STORM SEWER AND EXISTING SANITARY SEWER SHALL BE INCIDENTAL TO THE INSTALLATION OF THE STORM SEWER. C-COLLAR CONNECTIONS TO EXISTING STORM SEWER PIPES TO BE INCIDENTAL TO THE STORM SEWER PIPE INSTALLATION. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR PIPE BEDDING PER SW-102 AS APPROPRIATE. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
43	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	2,069		2,069	SEE TABULATIONS AND R SHEETS FOR LOCATIONS.
44	2503-0200341	STORM SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA.	LF	578		578	SEE TABULATIONS AND R SHEETS FOR LOCATIONS.
45	2507-3250005	ENGINEERING FABRIC	SY	117	13	130	TO BE PLACED UNDER CLASS C REVETMENT STONE AT THE STORM SEWER OUTLETS ALONG THE BANKS OF THE LITTLE WAPSIPINICON RIVER. 33% OF THE QUANTITY ALONG THE WEST RIVER BANK TO BE PAID UNDER DIVISION 2 DOT, THE REMAINDER ON THE WEST BANK AND 100% OF THE QUANTITY ON THE EAST BANK TO BE PAID UNDER DIVISION 1 CITY.
46	2507-4011100	CONCRETE GROUT FOR REVETMENT OR GABION	CY	12	3	15	TO BE PLACED AROUND THE CLASS C REVETMENT STONE AT THE STORM SEWER OUTLETS ALONG THE BANKS OF THE LITTLE WAPSIPINICON RIVER. 33% OF THE QUANTITY ALONG THE WEST RIVER BANK TO BE PAID UNDER DIVISION 2 DOT, THE REMAINDER ON THE WEST BANK AND 100% OF THE QUANTITY ON THE EAST BANK TO BE PAID UNDER DIVISION 1 CITY. ANY TEMPORARY DIVERSION OF WATER FROM THE LITTLE WAPSIPINICON RIVER REQUIRED TO ALLOW FLOWABLE MORTAR TO CURE SHALL BE INCIDENTAL TO THIS BID ITEM.
47	2507-6800032	REVETMENT, CLASS C	TON	211	24	235	TO BE PLACED AT THE STORM SEWER OUTLETS ALONG THE BANKS OF THE LITTLE WAPSIPINICON RIVER. SEE M SHEETS FOR LOCATIONS. 33% OF THE QUANTITY ALONG THE WEST RIVER BANK TO BE PAID UNDER DIVISION 2 DOT, THE REMAINDER ON THE WEST BANK AND 100% OF THE QUANTITY ON THE EAST BANK TO BE PAID UNDER DIVISION 1 CITY.
48	2510-6745850	REMOVAL OF PAVEMENT	SY	4,402.1	7,567.2	11,969.3	FOR REMOVAL OF STREET PAVEMENTS AND SECTIONS OF CURB AND GUTTER. SEE TABULATIONS AND R SHEETS FOR LOCATIONS. CARE SHALL BE TAKEN NOT TO DAMAGE PAVEMENT THAT IS TO REMAIN IN PLACE, DOUBLE, FULL-DEPTH SAW CUTS ARE TO BE MADE AT REMOVAL POINTS. PAVEMENT AND CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST JOINT, UNLESS NOTED OTHERWISE.
49	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	EACH	35		35	SEE TABULATIONS AND R SHEETS FOR LOCATIONS. INTAKE CASTINGS TO BE SALVAGED FOR THE JURISDICTION.
50	2512-1725256	CURB AND GUTTER, P.C. CONCRETE, 2.5 FT.	LF	155	49.9	204.9	SEE TABULATIONS AND D AND L SHEETS FOR LOCATIONS AND ADDITIONAL INFORMATION. GUTTER SECTIONS SHALL BE 9-INCHES THICK ON THE NORTHEAST QUADRANT OF FAIRBANK AND WALNUT STREET, ALL OTHER CURB AND GUTTER SECTIONS ON SIDE STREETS SHALL BE 7-INCHES THICK. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
51	2515-2475008	DRIVEWAY, P.C. CONCRETE, 8 IN.	SY	315		315	SEE TABULATIONS AND L SHEETS FOR LOCATIONS AND ADDITIONAL INFORMATION FOR DRIVEWAY ALONG 4TH STREET, SEE SIDEWALK PLANS BY OTHERS FOR ALL OTHER DRIVES. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS.
52	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	1,411.7		1,411.7	SEE TABULATIONS AND R SHEETS FOR LOCATIONS. CONTRACTOR SHALL PROVIDE 48-HOUR NOTICE TO PROPERTY OWNERS BEFORE REMOVING DRIVEWAYS. REPLACE DRIVEWAY PER PLAN WITHIN 10 WORKING DAYS OF BEING REMOVED.
53	2517-4225210	RAILROAD APPROACH SECTION, P.C.C.	SY		124.3	124.3	ESTIMATED 105 LF OF HDPE SUBDRAIN, SUBDRAIN CLEANOUT AND SUBDRAIN OUTLET FOR THE RAILROAD APPROACH SHALL BE INCLUDED IN THIS BID ITEM PER THE IOWA DOT STANDARD SPECIFICATION. ITEM ALSO TO INCLUDE FURNISHING, PLACING, AND FINISHING PCC, AS PCC WILL NOT BE PAID FOR UNDER THE PCC PAVING BID ITEM FOR THE RAILROAD APPROACH SECTION. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED AS SPECIFIED IN SECTION 2521 OF THE IOWA DOT STANDARD SPECIFICATIONS. SEE D AND L SHEETS FOR MORE INFORMATION.
54	2520-3350015	FIELD OFFICE	EACH		1	1	
55	2524-6765010	REMOVE AND REINSTALL SIGN AS PER PLAN	EACH	6	6	12	FOR REMOVAL AND REINSTALLATION OF SIGNS ALONG W. MAIN STREET TO PERFORM THE STORM SEWER WORK AND ALONG 4TH STREET TO PERFORM WATER MAIN AND DRIVEWAY WORK. SEE SIDEWALK PLANS BY OTHERS FOR ALL OTHER SIGNS. SEE TABULATIONS FOR LOCATIONS. METHOD OF MEASUREMENT SHALL BE FOR EACH SIGN REMOVED TO PERFORM THE CONSTRUCTION WORK AND SET BACK AFTER CONSTRUCTION. PAYMENT SHALL BE FOR EACH SIGN THAT IS REMOVED AND RESINSTALLED AND SHALL INCLUDE ALL WORK REQUIRED TO REMOVE AND REINSTALL THE SIGN. SIGNS SHALL BE CLEANED AFTER CONSTRUCTION BEFORE BEING RESINSTALLED, ANY SIGNS DAMAGED DURING REMOVAL, CONSTRUCTION, OR REINSTALLATION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
56	2526-8285000	CONSTRUCTION SURVEY	LS	0.6	0.4	1	SEE SIDEWALK PLANS FOR SIDEWALK STAKING, PROJECT NUMBER STPN-281-2(8)--2J-10
57	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	135.36	62.32	197.68	STB6 SHALL DENOTE CURB AND GUTTER TO BE PAINTED BLUE TO INDICATE ADA ACCESSIBLE PARKING SPACES. SEE TABULATIONS AND D SHEETS FOR LOCATIONS AND MARKING TYPES.
58	2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	EACH	8	1	9	SEE TABULATIONS AND D SHEETS FOR LOCATIONS AND SYMBOL TYPES.
59	2528-2518000	SAFETY CLOSURE	EACH	5	3	8	TO MAINTAIN SAFE ROAD CLOSERS, ANTICIPATED TO BE USED AT ROAD CLOSURES TO RESTRICT ACCESS TO HIGHWAY 281 AT 4TH STREET AND GROVE STREET, NOT FOR SIDE STREETS.
60	2528-8400256	TEMPORARY TRAFFIC SIGNALS	EACH	1	1	2	TRAFFIC SIGNALS SHALL BE USED FOR STAGES 1A AND 1B. 25% OF PAYMENT SHALL BE PAID UPON THE SUCCESSFUL OPERATION OF THE SIGNALS AT THE BEGINNING OF STAGE 1A, 25% OF PAYMENT SHALL BE MADE AT THE END OF STAGE 1A TO DEACTIVATE THE SIGNALS, 25% OF PAYMENT SHALL BE MADE UPON THE SUCCESSFUL OPERATION OF THE SIGNALS AT THE BEGINNING OF STAGE 1B, AND 25% OF PAYMENT SHALL BE MADE WHEN THE SIGNALS ARE REMOVED FROM THE SITE. ONE SIGNAL SHALL BE PAID FOR UNDER DIVISION 1 - CITY AND ONE UNDER DIVISION 2 - DOT 3R.
61	2528-8445110	TRAFFIC CONTROL	LS	1	1	2	SEE SHEET J.01 FOR THE TRAFFIC CONTROL PLAN AND PROPOSED PROJECT STAGING. TRAFFIC CONTROL FOR DIVISION 1 TO COVER ITEMS FOR THE LOCAL DETOUR WITHIN THE CITY OF FAIRBANK. ITEM IS FOR SETTING UP, MAINTAINING, AND REMOVING SIGNAGE AND TRAFFIC CONTROL FOR THE DETOURS WITHIN THE CITY OF FAIRBANK FOR THE VARIOUS CONSTRUCTION STAGES, AS DENOTED BY SHEETS J.06 THROUGH J.10 FOR STAGES 1 THROUGH 4. TRAFFIC CONTROL FOR DIVISION 2 IS FOR SETTING UP, MAINTAINING, AND REMOVING SIGNAGE AND TRAFFIC CONTROL FOR THE STATE HIGHWAY DETOUR AROUND THE CITY OF FAIRBANK ON THE COUNTY ROADS. ITEM ALSO FOR SETTING UP, MAINTAINING, AND REMOVING ROAD CLOSURES FOR IOWA HIGHWAY 281 WITHIN THE CITY OF FAIRBANK. AS WELL AS SIGNAGE NEEDED FOR FLAGGERS TO COMPLETE SHOULDER WORK AND MILLING AND PAVING OPERATIONS ALONG WEST MAIN STREET. THE PROJECT DETOUR IS DENOTED BY SHEETS J.02 THROUGH J.05 AND SHEETS J.11 THROUGH J.14 FOR THE STORM SEWER AND SHOULDER WORK ALONG W. MAIN STREET.



ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
ESTIMATED PROJECT QUANTITIES AND
REFERENCE NOTES

SET TYPE: BID LETTING
G:\30\22-1100 Fairbank Hwy 281\Plans\22-1100 C SHEETS.dwg, C.02

JOB NUMBER:
22-1100

SHEET NUMBER:
C.02

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1 : City of Fairbank
Division 2 : Iowa DOT

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated		Total	
				Division 1	Division 2		
62	2528-8445113	FLAGGERS	EACH	0	0	0	SEE PROPOSAL. ITEM IS FOR THE USE OF FLAGGERS ALONG W. MAIN STREET DURING STORM SEWER AND SHOULDER WORK PER TC-213. TRAFFIC CONTROL TO BE SET UP DURING THE WORKING DAY TO REDUCE TRAFFIC TO ONE LANE AND REMOVED AT THE END OF EACH WORKING DAY TO ALLOW TWO-WAY TRAFFIC UNTIL THE START OF THE NEXT WORKING DAY. ONE LANE ROAD CLOSURES ALONG W. MAIN TO BE BROKEN INTO TWO SEGMENTS AS TO REDUCE THE AMOUNT OF ONE LANE ROAD TO ONLY BE WITHIN THE AREA OF CONSTRUCTION FOR THE GIVEN WORK DAY. FLAGGERS ALSO TO BE USED DURING MILLING AND ASPHALT PAVING OPERATIONS ALONG W. MAIN STREET. FLAGGERS NEEDED FOR STORM SEWER WORK ALONG THE SOUTH SIDE OF W. MAIN STREET SHALL BE PAID UNDER DIVISION 1 - CITY. THE REMAINDER OF FLAGGERS REQUIRED FOR SHOULDER AND PAVING WORK SHALL BE PAID FOR UNDER DIVISION 2 - DOT 3R.
63	2528-8445115	PILOT CARS	EACH		0	0	SEE PROPOSAL. ITEM TO BE USED DURING MILLING AND ASPHALT PAVING OPERATIONS ALONG W. MAIN STREET.
64	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY		0	0	TWO SIGNS SHALL BE PROVIDED. ONE SIGN SHALL BE PLACED AT EACH END OF THE PROJECT. SIGNS SHALL BE IN PLACE AND OPERATIONAL A MINIMUM OF 7 DAYS PRIOR TO CLOSURE OF IOWA 281. SIGNS ARE TO NOTIFY MOTORISTS OF UPCOMING CONSTRUCTION OF IOWA 281 IN FAIRBANK. SIGNS SHALL READ, "281 CLOSED IN FAIRBANK 'MONTH DAY'", OR SOMETHING SIMILAR.
65	2533-4980005	MOBILIZATION	LS	0.6	0.4	1	
66	2552-0000300	TRENCH COMPACTION TESTING	LS	1		1	CONTRACTOR RESPONSIBLE FOR PROVIDING TRENCH COMPACTION TESTING RESULTS TO THE ENGINEER FOR WATER MAIN AND STORM SEWER TRENCHES LOCATED UNDER THE PAVED ROAD PRIOR TO BEGINNING PAVING OPERATIONS. TRENCH COMPACTION TESTING IS NOT REQUIRED ON CITY SIDE STREETS OR IN DITCHES AND OTHER AREAS BEHIND BACK OF CURB.
67	2554-0112004	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 4 IN.	LF	55		55	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. NITRILE GASKETS AND V-BIO ENHANCED POLYETHYLENE ENCASEMENT WRAP WITH A MINIMUM THICKNESS OF 8 MIL TO BE USED ON ALL DUCTILE IRON PIPE, FITTINGS, AND APPURTENANCES TO PREVENT CONTACT BETWEEN THE PIPE AND BEDDING MATERIAL, BUT NEED NOT BE AIRTIGHT OR WATERTIGHT. REPAIR ALL CUTS AND TEARS AND INSTALL IN ACCORDANCE WITH AWWA C105. ANY INSULATION REQUIRED TO BE PLACED AROUND THE PROPOSED WATER MAIN SHALL BE INCIDENTAL TO THE INSTALLATION OF THE WATER MAIN. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE. IN THE CASE OF A WET TRENCH, CLASS P-2 BEDDING SHALL BE USED PER SW-104, CLASS I BEDDING MATERIAL SHALL BE IOWA DOT GRADATION NO. 3 AND SHALL BE USED IN A WET TRENCH. THE REMAINDER OF THE TRENCH BACKFILL FOR THE HAUNCH SUPPORT, PRIMARY BACKFILL, SECONDARY BACKFILL, AND FINAL TRENCH BACKFILL UP TO THE BOTTOM OF PAVEMENT SUBGRADE PER SW-101 SHALL BE EXISTING MATERIALS REMOVED FROM THE TRENCH. EXISTING MATERIALS ARE EXPECTED TO BE SUITABLE FOR BACKFILL.
68	2554-0112006	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 6 IN.	LF	238		238	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. NITRILE GASKETS AND V-BIO ENHANCED POLYETHYLENE ENCASEMENT WRAP WITH A MINIMUM THICKNESS OF 8 MIL TO BE USED ON ALL DUCTILE IRON PIPE, FITTINGS, AND APPURTENANCES TO PREVENT CONTACT BETWEEN THE PIPE AND BEDDING MATERIAL, BUT NEED NOT BE AIRTIGHT OR WATERTIGHT. REPAIR ALL CUTS AND TEARS AND INSTALL IN ACCORDANCE WITH AWWA C105. ANY INSULATION REQUIRED TO BE PLACED AROUND THE PROPOSED WATER MAIN SHALL BE INCIDENTAL TO THE INSTALLATION OF THE WATER MAIN. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE. IN THE CASE OF A WET TRENCH, CLASS P-2 BEDDING SHALL BE USED PER SW-104, CLASS I BEDDING MATERIAL SHALL BE IOWA DOT GRADATION NO. 3 AND SHALL BE USED IN A WET TRENCH. THE REMAINDER OF THE TRENCH BACKFILL FOR THE HAUNCH SUPPORT, PRIMARY BACKFILL, SECONDARY BACKFILL, AND FINAL TRENCH BACKFILL UP TO THE BOTTOM OF PAVEMENT SUBGRADE PER SW-101 SHALL BE EXISTING MATERIALS REMOVED FROM THE TRENCH. EXISTING MATERIALS ARE EXPECTED TO BE SUITABLE FOR BACKFILL.
69	2554-0112008	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 8 IN.	LF	8		8	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. NITRILE GASKETS AND V-BIO ENHANCED POLYETHYLENE ENCASEMENT WRAP WITH A MINIMUM THICKNESS OF 8 MIL TO BE USED ON ALL DUCTILE IRON PIPE, FITTINGS, AND APPURTENANCES TO PREVENT CONTACT BETWEEN THE PIPE AND BEDDING MATERIAL, BUT NEED NOT BE AIRTIGHT OR WATERTIGHT. REPAIR ALL CUTS AND TEARS AND INSTALL IN ACCORDANCE WITH AWWA C105. ANY INSULATION REQUIRED TO BE PLACED AROUND THE PROPOSED WATER MAIN SHALL BE INCIDENTAL TO THE INSTALLATION OF THE WATER MAIN. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE. IN THE CASE OF A WET TRENCH, CLASS P-2 BEDDING SHALL BE USED PER SW-104, CLASS I BEDDING MATERIAL SHALL BE IOWA DOT GRADATION NO. 3 AND SHALL BE USED IN A WET TRENCH. THE REMAINDER OF THE TRENCH BACKFILL FOR THE HAUNCH SUPPORT, PRIMARY BACKFILL, SECONDARY BACKFILL, AND FINAL TRENCH BACKFILL UP TO THE BOTTOM OF PAVEMENT SUBGRADE PER SW-101 SHALL BE EXISTING MATERIALS REMOVED FROM THE TRENCH. EXISTING MATERIALS ARE EXPECTED TO BE SUITABLE FOR BACKFILL.
70	2554-0112010	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 10 IN.	LF	1,691		1,691	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. NITRILE GASKETS AND V-BIO ENHANCED POLYETHYLENE ENCASEMENT WRAP WITH A MINIMUM THICKNESS OF 8 MIL TO BE USED ON ALL DUCTILE IRON PIPE, FITTINGS, AND APPURTENANCES TO PREVENT CONTACT BETWEEN THE PIPE AND BEDDING MATERIAL, BUT NEED NOT BE AIRTIGHT OR WATERTIGHT. REPAIR ALL CUTS AND TEARS AND INSTALL IN ACCORDANCE WITH AWWA C105. ANY INSULATION REQUIRED TO BE PLACED AROUND THE PROPOSED WATER MAIN SHALL BE INCIDENTAL TO THE INSTALLATION OF THE WATER MAIN. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE. IN THE CASE OF A WET TRENCH, CLASS P-2 BEDDING SHALL BE USED PER SW-104, CLASS I BEDDING MATERIAL SHALL BE IOWA DOT GRADATION NO. 3 AND SHALL BE USED IN A WET TRENCH. THE REMAINDER OF THE TRENCH BACKFILL FOR THE HAUNCH SUPPORT, PRIMARY BACKFILL, SECONDARY BACKFILL, AND FINAL TRENCH BACKFILL UP TO THE BOTTOM OF PAVEMENT SUBGRADE PER SW-101 SHALL BE EXISTING MATERIALS REMOVED FROM THE TRENCH. EXISTING MATERIALS ARE EXPECTED TO BE SUITABLE FOR BACKFILL.
71	2554-0203000	FITTINGS BY WEIGHT, DUCTILE IRON	LB	1,840		1,840	SEE TABULATIONS, D, AND U SHEETS FOR LOCATIONS, BID WEIGHTS BY FITTING, AND CONNECTION DETAILS. INSTALL MJ RETAINER GLANDS WHERE SHOWN ON THE U SHEETS FOR FITTINGS SUBJECT TO THRUST, NOT TO BE INSTALLED ON PLAIN CAST IRON PIPE. MJ RETAINER GLANDS SHALL BE INCIDENTAL TO THIS BID ITEM AND NOT PAID FOR SEPARATELY. TEE BOLTS AND HEXAGONAL NUTS FOR MECHANICAL JOINTS SHALL BE STAINLESS STEEL OR "COR-BLUE", ALL OTHER BOLT AND NUTS SHALL BE STAINLESS STEEL. GRIPPING WEDGE-STYLE RESTRAINT GLANDS (EBAA MEGA-LUG, TYLER UNION TUF-GRIP, ETC.) SHALL NOT BE USED ON PLAIN-END DUCTILE IRON FITTINGS PER MANUFACTURER RECOMMENDATIONS.
72	2554-0205110	WATER SERVICE STUB, COPPER, 1 IN.	LF	853		853	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE. EXISTING MATERIALS ARE EXPECTED TO BE SUITABLE FOR BACKFILL, ANY ROCK ENCOUNTERED LARGER THAN 4-INCHES SHALL NOT BE PLACED BACK IN THE TRENCH. IN THE CASE OF A WET TRENCH, CLASS P-2 BEDDING SHALL BE USED PER SW-104, CLASS I BEDDING MATERIAL SHALL BE IOWA DOT GRADATION NO. 3 AND SHALL BE USED IN A WET TRENCH. THE REMAINDER OF THE TRENCH BACKFILL FOR THE HAUNCH SUPPORT, PRIMARY BACKFILL, SECONDARY BACKFILL, AND FINAL TRENCH BACKFILL UP TO THE BOTTOM OF PAVEMENT SUBGRADE PER SW-101 SHALL BE EXISTING MATERIALS REMOVED FROM THE TRENCH.
73	2554-0205120	WATER SERVICE STUB, COPPER, 2 IN.	LF	51		51	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE. EXISTING MATERIALS ARE EXPECTED TO BE SUITABLE FOR BACKFILL, ANY ROCK ENCOUNTERED LARGER THAN 4-INCHES SHALL NOT BE PLACED BACK IN THE TRENCH. IN THE CASE OF A WET TRENCH, CLASS P-2 BEDDING SHALL BE USED PER SW-104, CLASS I BEDDING MATERIAL SHALL BE IOWA DOT GRADATION NO. 3 AND SHALL BE USED IN A WET TRENCH. THE REMAINDER OF THE TRENCH BACKFILL FOR THE HAUNCH SUPPORT, PRIMARY BACKFILL, SECONDARY BACKFILL, AND FINAL TRENCH BACKFILL UP TO THE BOTTOM OF PAVEMENT SUBGRADE PER SW-101 SHALL BE EXISTING MATERIALS REMOVED FROM THE TRENCH.
74	2554-0205410	WATER SERVICE CORPORATION, COPPER, 1 IN.	EACH	31		31	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE. EXISTING MATERIALS ARE EXPECTED TO BE SUITABLE FOR BACKFILL, ANY ROCK ENCOUNTERED LARGER THAN 4-INCHES SHALL NOT BE PLACED BACK IN THE TRENCH. IN THE CASE OF A WET TRENCH, CLASS P-2 BEDDING SHALL BE USED PER SW-104, CLASS I BEDDING MATERIAL SHALL BE IOWA DOT GRADATION NO. 3 AND SHALL BE USED IN A WET TRENCH. THE REMAINDER OF THE TRENCH BACKFILL FOR THE HAUNCH SUPPORT, PRIMARY BACKFILL, SECONDARY BACKFILL, AND FINAL TRENCH BACKFILL UP TO THE BOTTOM OF PAVEMENT SUBGRADE PER SW-101 SHALL BE EXISTING MATERIALS REMOVED FROM THE TRENCH.
75	2554-0205420	WATER SERVICE CORPORATION, COPPER, 2 IN.	EACH	1		1	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE. EXISTING MATERIALS ARE EXPECTED TO BE SUITABLE FOR BACKFILL, ANY ROCK ENCOUNTERED LARGER THAN 4-INCHES SHALL NOT BE PLACED BACK IN THE TRENCH. IN THE CASE OF A WET TRENCH, CLASS P-2 BEDDING SHALL BE USED PER SW-104, CLASS I BEDDING MATERIAL SHALL BE IOWA DOT GRADATION NO. 3 AND SHALL BE USED IN A WET TRENCH. THE REMAINDER OF THE TRENCH BACKFILL FOR THE HAUNCH SUPPORT, PRIMARY BACKFILL, SECONDARY BACKFILL, AND FINAL TRENCH BACKFILL UP TO THE BOTTOM OF PAVEMENT SUBGRADE PER SW-101 SHALL BE EXISTING MATERIALS REMOVED FROM THE TRENCH.
76	2554-0205710	WATER SERVICE CURB STOP AND BOX, COPPER, 1 IN.	EACH	30		30	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE. EXISTING MATERIALS ARE EXPECTED TO BE SUITABLE FOR BACKFILL, ANY ROCK ENCOUNTERED LARGER THAN 4-INCHES SHALL NOT BE PLACED BACK IN THE TRENCH. IN THE CASE OF A WET TRENCH, CLASS P-2 BEDDING SHALL BE USED PER SW-104, CLASS I BEDDING MATERIAL SHALL BE IOWA DOT GRADATION NO. 3 AND SHALL BE USED IN A WET TRENCH. THE REMAINDER OF THE TRENCH BACKFILL FOR THE HAUNCH SUPPORT, PRIMARY BACKFILL, SECONDARY BACKFILL, AND FINAL TRENCH BACKFILL UP TO THE BOTTOM OF PAVEMENT SUBGRADE PER SW-101 SHALL BE EXISTING MATERIALS REMOVED FROM THE TRENCH.
77	2554-0205720	WATER SERVICE CURB STOP AND BOX, COPPER, 2 IN.	EACH	1		1	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE. EXISTING MATERIALS ARE EXPECTED TO BE SUITABLE FOR BACKFILL, ANY ROCK ENCOUNTERED LARGER THAN 4-INCHES SHALL NOT BE PLACED BACK IN THE TRENCH. IN THE CASE OF A WET TRENCH, CLASS P-2 BEDDING SHALL BE USED PER SW-104, CLASS I BEDDING MATERIAL SHALL BE IOWA DOT GRADATION NO. 3 AND SHALL BE USED IN A WET TRENCH. THE REMAINDER OF THE TRENCH BACKFILL FOR THE HAUNCH SUPPORT, PRIMARY BACKFILL, SECONDARY BACKFILL, AND FINAL TRENCH BACKFILL UP TO THE BOTTOM OF PAVEMENT SUBGRADE PER SW-101 SHALL BE EXISTING MATERIALS REMOVED FROM THE TRENCH.
78	2554-0207004	VALVE, GATE, DIP, 4 IN.	EACH	1		1	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. ALL WATER VALVES TO BE WATEROUS OR MUELLER MANUFACTURERS ONLY. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE.
79	2554-0207006	VALVE, GATE, DIP, 6 IN.	EACH	4		4	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. ALL WATER VALVES TO BE WATEROUS OR MUELLER MANUFACTURERS ONLY. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE.
80	2554-0207010	VALVE, GATE, DIP, 10 IN.	EACH	8		8	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. ALL WATER VALVES TO BE WATEROUS OR MUELLER MANUFACTURERS ONLY. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE.
81	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201	EACH	5		5	SEE TABULATIONS AND M SHEETS FOR LOCATIONS. ALL FIRE HYDRANTS TO BE WATEROUS OR MUELLER MANUFACTURERS ONLY. ANCHOR TEES SHALL BE USED FOR FIRE HYDRANT ASSEMBLIES WITH THE LEAD VALVE ATTACHED TO THE TEE. USE MATERIALS MEETING REQUIREMENTS OF SECTION 4119 FOR CLASS P-1 PIPE BEDDING IN A DRY TRENCH PER SW-104 AS APPROPRIATE.



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OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
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STPN-281-2(10)--2J-10

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DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
ESTIMATED PROJECT QUANTITIES AND
REFERENCE NOTES

SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 C SHEETS.dwg, C.03

JOB NUMBER:

22-1100

SHEET NUMBER:

C.03

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1 : City of Fairbank
Division 2 : Iowa DOT

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
82	2554-0210205	FIRE HYDRANT ASSEMBLY REMOVAL	EACH	5		5	SEE TABULATIONS AND R SHEETS FOR LOCATIONS. EXISTING FIRE HYDRANT ASSEMBLIES TO BE REMOVED AND SALVAGED FOR THE JURISDICTION. BOLLARDS NEAR FIRE HYDRANTS TO BE REMOVED AND SALVAGED FOR THE JURISDICTION AND SHALL BE INCLUDED AS PART OF THIS BID ITEM.
83	2554-0212040	VALVE BOX ADJUSTMENT, MINOR	EACH		5	5	ITEM FOR ADJUSTING AND BOXING OUT EXISTING WATER VALVES IN HMA PAVEMENT. THE BOXOUT FOR WATER VALVES SHALL CONSIST OF AN 18-INCH DIAMETER PCC BOXOUT CENTERED OVER THE WATER VALVE BOX. THE PCC SHALL BE 9-INCHES THICK AND REINFORCED WITH TWO #4 REBAR HOOPS, WHICH SHALL BE PLACED AT MID-SLAB, SIMILAR TO THAT OF A MANHOLE BOXOUT PER IOWA DOT STANDARD ROAD PLAN PV-201.
84	2554-0212050	VALVE BOX REMOVAL	EACH	2		2	EXISTING VALVE BOXES LOCATED ON THE EXISTING WATER MAIN TO BE ABANDONED SHALL BE REMOVED DOWN TO THE PAVEMENT SUBGRADE.
85	2595-0005140	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR IOWA NORTHERN RAILWAY CO.	LS		1	1	REFER TO SPECIAL PROVISIONS.
86	2599-9999005	('EACH' ITEM) CONNECTION TO EXISTING WATER MAIN	EACH	6		6	METHOD OF MEASUREMENT TO BE FOR EACH LOCATION TO DISCONNECT THE EXISTING WATER MAIN AND CONNECT THE NEW WATER MAIN, REGARDLESS OF SIZE AND MATERIAL. PAYMENT SHALL BE FOR EACH WATER MAIN CONNECTION MADE AND SHALL INCLUDE ALL LABOR AND MATERIALS REQUIRED FOR THE WATER MAIN CONNECTION INCLUDING, BUT NOT LIMITED TO, SAW CUTTING THE EXISTING WATER MAIN PIPE, AND BEDDING MATERIAL TO MAINTAIN A DRY TRENCH. COMMUNICATE WITH CITY STAFF TO COORDINATE WATER MAIN CONNECTIONS AND PROPERTY OWNER NOTIFICATION.
87	2599-9999005	('EACH' ITEM) FOOTING FOR CONCRETE PIP APRON, RCP, 18 IN. DIA.	EACH	0.67	0.33	1	CONCRETE FOOTING TO BE INSTALLED PER SUDAS SECTION 4030.221 FOR AN RCP APRON SECTION FOOTING. METHOD OF MEASUREMENT TO BE BY EACH CONCRETE FOOTING POURED, OR PRECAST FOOTING INSTALLED. PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR AND MATERIALS REQUIRED TO POUR THE CONCRETE FOOTING, OR PLACE THE PRECAST FOOTING, INCLUDING, BUT NOT LIMITED TO, EXCAVATION, REBAR, CONCRETE, LABOR, AND MATERIALS REQUIRED TO INSTALL THE FOOTING.
88	2599-9999005	('EACH' ITEM) SUBDRAIN CLEANOUT	EACH		4	4	ITEM IS FOR 6-INCH SUBDRAIN CLEANOUT TO BE INSTALLED AT THE BRIDGE APPROACH, WEST SIDE OF GROVE STREET, AND THE NORTH SIDE OF GROVE STREET EAST OF 4TH STREET. SEE TABULATIONS AND D AND M SHEETS FOR LOCATIONS. SUBDRAIN CLEANOUT FOR THE RAILROAD APPROACH TO BE PAID UNDER THE 'RAILROAD APPROACH SECTION, P.C.C.' ITEM. SUBDRAIN CLEANOUT TO BE INSTALLED PER SUDAS 4040.232 TYPE A-2 CLEANOUT. METHOD OF MEASUREMENT TO BE BY EACH CLEANOUT INSTALLED. PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR AND MATERIALS REQUIRED TO INSTALL THE CLEANOUT INCLUDING, BUT NOT LIMITED TO, ANY PVC PIPE, FITTINGS, ELBOWS, AND PVC SCREW CAP.
89	2599-9999005	('EACH' ITEM) WATER SERVICE REDUCER, 1 IN. TO 3/4 IN.	EACH	30		30	METHOD OF MEASUREMENT TO BE BY EACH WATER SERVICE REDUCER INSTALLED. PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR AND MATERIALS REQUIRED TO CONNECT THE REDUCER TO THE PROPOSED 1 IN. COPPER WATER SERVICE AND EXISTING 3/4 IN. WATER SERVICE. EXISTING WATER SERVICE MATERIALS ARE UNKNOWN AND MAY VARY, NO ADDITIONAL PAYMENT SHALL BE MADE BASED ON EXISTING WATER SERVICE MATERIAL.
90	2599-9999007	('HOURS' ITEM) EXPLORATORY EXCAVATION	hour	24		24	METHOD OF MEASUREMENT TO BE FOR EACH HOUR OF EXPLORATORY EXCAVATION AS SHOWN ON THE PLANS OR APPROVED BY THE ENGINEER. PAYMENT SHALL BE FULL COMPENSATION FOR EXPLORATORY EXCAVATION WITH A VACUUM TRUCK OR MINI EXCAVATOR AND SUBSIDIARY LABOR AND MATERIALS. PAYMENT WILL BE MADE TO THE NEAREST ONE-HALF HOUR. LOCATING UTILITY LINES SHOWN ON THE PLANS AND AS MARKED BY IOWA ONE CALL WILL NOT BE COVERED UNDER THIS BID ITEM, UNLESS NOTED OTHERWISE ON THE PLANS, THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE MAJOR WORK BEING COMPLETED.
91	2599-9999009	('LINEAR FEET' ITEM) WATER SERVICE, TRENCHLESS, COPPER 1 IN.	LF	57		57	ITEM IS FOR THE WATER SERVICE ALONG E. MAIN STREET TO BE BORED TO THE BASEMENT OF THE BUILDING AT CITY HALL. THIS ITEM SHALL ALSO BE USED IF THERE ARE ANY OTHER REQUESTS TO INSTALL WATER SERVICES INTO BUILDINGS DURING CONSTRUCTION, NO OTHERS ARE KNOWN AT THIS TIME. METHOD OF MEASUREMENT AND PAYMENT SHALL BE BY LINEAR FEET ALONG THE CENTERLINE OF THE PIPE FOR EACH TYPE AND SIZE OF WATER SERVICE PIPE THAT IS INSTALLED USING TRENCHLESS CONSTRUCTION. ITEM SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO RUN THE WATER SERVICE PIPE AND HIGH TENSILE TRACER WIRE THROUGH THE BASEMENT FOUNDATION WALL AND TO THE PROPER LOCATION INSIDE THE BUILDING. OWNER IS RESPONSIBLE FOR MAKING THE CONNECTION INSIDE THE BUILDING. SEE TABULATIONS AND M SHEETS FOR LOCATIONS.
92	2599-9999010	('LUMP SUM' ITEM) DECORATIVE LED LIGHTING SYSTEM	LS	1		1	METHOD OF MEASUREMENT SHALL BE BY LUMP SUM TO PROVIDE, PLACE, AND MAKE THE PROPOSED LIGHTING SYSTEM FULLY FUNCTIONAL. PAYMENT SHALL BE FULL COMPENSATION FOR LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO INSTALL THE LIGHTING SYSTEM. CONTRACTOR TO VERIFY DEPTHS AND LOCATIONS OF EXISTING AND PROPOSED UNDERGROUND UTILITIES PRIOR TO ANY BORING OPERATIONS. UNDERGROUND CONDUIT EXPECTED TO BE PLACED AT A DEPTH OF 2 TO 3-FEET, DEPTH MAY VARY DEPENDING ON LOCATIONS OF OTHER UNDERGROUND UTILITIES. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
93	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	75	418	493	SEE TABULATIONS AND EC SHEETS FOR LOCATIONS.
94	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	75	418	493	SEE TABULATIONS AND EC SHEETS FOR LOCATIONS.
95	2602-0000500	OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602	LF	16		16	SEE TABULATIONS AND EC SHEETS FOR LOCATIONS. ITEM TO BE INSTALLED AS SOON AS CONSTRUCTION BEGINS IN THE AREA OF THE INTAKE, OR INTAKE CONSTRUCTION IS COMPLETE.
96	2602-0000510	MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	2		2	
97	2602-0000520	REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	2		2	ITEM TO BE REMOVED ONLY WHEN THE SURROUNDING AREA HAS ACHIEVED 70% GROWTH, OR WHEN PAVEMENT SCARIFICATION, PAVEMENT CONSTRUCTION, AND SIDEWALK CONSTRUCTION OPERATIONS ARE COMPLETE.
98	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG	EACH	29	20	49	SEE TABULATIONS AND EC SHEETS FOR LOCATIONS. ITEM TO BE INSTALLED AS SOON AS CONSTRUCTION BEGINS IN THE AREA OF THE INTAKE, OR INTAKE CONSTRUCTION IS COMPLETE. METHOD OF MEASUREMENT SHALL BE BY COUNT FOR EACH GRATE INTAKE SEDIMENT FILTER BAG THAT IS INSTALLED. INSTALLATION OF SEDIMENT FILTER BAGS IN DOUBLE GRATE INTAKES SHALL COUNT AS THE INSTALLATION OF ONE (1) FILTER BAG PER EACH INTAKE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO INSTALL THE GRATE INTAKE SEDIMENT FILTER BAGS. NO PAYMENT SHALL BE GIVEN IF SILT FENCE FABRIC IS INSTALLED INSTEAD OF A GRATE INTAKE SEDIMENT FILTER BAG, UNLESS APPROVED BY THE ENGINEER.
99	2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	29	20	49	METHOD OF MEASUREMENT TO BE BY COUNT. PAYMENT SHALL BE FOR EACH OCCURRENCE SEDIMENT OR OTHER DEBRIS IS CLEANED OUT OF A GRATE INTAKE SEDIMENT FILTER BAG WHEN IT REACHES A CAPACITY OF 50% OR MORE. PAYMENT IS FULL COMPENSATION FOR CLEAN OUT, PROPER DISPOSAL OF ANY SEDIMENT OR DEBRIS, ANY NEEDED REPAIR OR REPLACEMENT OF THE GRATE INTAKE SEDIMENT FILTER BAG, AND REINSTALLATION OF THE GRATE INTAKE SEDIMENT FILTER BAG. MAINTENANCE IS ESTIMATED TO BE ONE CLEANING PER EACH INTAKE ON AVERAGE.
100	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	29	20	49	ITEM TO BE REMOVED ONLY WHEN THE SURROUNDING AREA HAS ACHIEVED 70% GROWTH, OR WHEN PAVEMENT SCARIFICATION, PAVEMENT CONSTRUCTION, AND SIDEWALK CONSTRUCTION OPERATIONS ARE COMPLETE. METHOD OF MEASUREMENT SHALL BE BY COUNTY FOR EACH GRATE INTAKE SEDIMENT FILTER BAG IS REMOVED, REMOVAL OF SEDIMENT FILTER BAGS IN DOUBLE GRATE INTAKES SHALL COUNT AS THE REMOVAL OF ONE (1) FILTER BAG PER EACH INTAKE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR AND EQUIPMENT REQUIRED FOR REMOVAL OF THE GRATE INTAKE SEDIMENT FILTER BAG.
101	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	3	2	5	
102	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1	1	2	

PROJECT DESCRIPTION

This Data Entry Sheet fills Tab 100-1D effective 10-18-05

PROJECT INCLUDES STREET, UNDERGROUND UTILITY, AND SIDEWALK IMPROVEMENTS ALONG HIGHWAY 281 THROUGH THE CITY OF FAIRBANK, IOWA. THE PROJECT BEGINS ON FAIRBANK STREET WITH HMA MILL AND OVERLAY OPERATIONS PROCEEDING EAST TO THE LITTLE WAPSIPINICON RIVER BRIDGE. PROCEEDING EAST OF THE BRIDGE ON EAST MAIN STREET, SOUTH ON 4TH STREET AND EAST ON GROVE STREET TO THE IOWA NORTHERN RAILWAY, THE EXISTING STREET WILL BE RECONSTRUCTED WITH PCC. STORM SEWER IMPROVEMENTS WILL BE MADE ALONG THE SOUTH SIDE OF WEST MAIN STREET INCLUDING THE ADDITION OF STORM SEWER PIPES AND INTAKES. STORM SEWER AND WATER MAIN IMPROVEMENTS WILL ALSO BE MADE ALONG EAST MAIN STREET AND 4TH STREET. THE EXISTING STREET LIGHTS ALONG EAST MAIN STREET ARE TO BE REMOVED AND REPLACED WITH A DECORATIVE LIGHTING SYSTEM. SIDEWALK IMPROVEMENTS WILL ALSO BE MADE THROUGHOUT THE CORRIDOR, SEE SIDEWALK PLANS BY OTHERS, PROJECT NO. STPN-281-2(8)--2J-10.

COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

This Data Entry Sheet fills Tab 111-01 effective 4-17-12

Project	Type of Work
STPN-281-2(8)--2J-10	PCC SIDEWALK
FM-TSF-C010(115)--5B-10	PCC PAVEMENT WIDENING & RESURF.



ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:

MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

SET TYPE: BID LETTING

G:\C\20\22\1100 Fairbank Hwy 281\Plans\22-1100 C SHEETS.dwg, C.04

JOB NUMBER:

22-1100

SHEET NUMBER:

C.04

INDEX OF TABULATIONS		
This Data Entry Sheet fills Tab 111-25 effective 10-18-11		
Tabulation	Tabulation Title	Sheet No.
100-1A	ESTIMATED PROJECT QUANTITIES & REFERENCE NOTES	C.01-C.04
100-1D	PROJECT DESCRIPTION	C.04
100-19	PERIMETER SLOPE & DITCH CHECK SEDIMENT	C.05
100-23	ROCK EROSION CONTROL	C.06
100-24	PCC PAVEMENT	C.06
100-25	HMA PAVEMENT	C.06
100-36	OPEN-THROAT CURB INTAKE SEDIMENT FILTER	C.06
100-37	GRATE INTAKE SEDIMENT FILTER BAG	C.07
101-16	ALIGNMENT COORDINATES	G.01
101-17	SPIRAL OR CIRCULAR CURVE DATA	G.01
102-3	ACCESS POINTS & SAFETY RAMPS	C.07
102-5	EXISTING PAVEMENT	C.07
102-6C	FULL DEPTH PATCHES	C.07
102-16	NOTCHES & RUNOUTS FOR RESURFACING	C.07
104-5B	STORM SEWER	C.08-C.09
104-5C	LIST OF SUBDRAIN WORK	C.09
104-10	ADJUSTMENT OF FIXTURES	C.10
105-4	STANDARD ROAD PLANS	C.05
108-1	LIGHTING INSTALLATION	C.10
108-2	ELECTRICAL DUCTS	C.10
108-13A	SAFETY CLOSURE	C.10
108-22	PAVEMENT MARKINGS	C.11-C.12
108-23A	TRAFFIC CONTROL PLAN	J.01
108-25	511 TRAVEL RESTRICTIONS	J.01
108-26A	STAGING NOTES	J.01
108-28	TEMPORARY TRAFFIC SIGNALS	C.13
108-29	PAVEMENT SYMBOLS AND LEGENDS	C.13
110-1	REMOVAL OF PAVEMENT	C.13
110-8	REMOVAL OF CONCRETE DRIVES	C.13
110-14	SAN-STORM SEWER ABANDONMENT OR REMOVAL	C.14
110-15	REMOVAL OF INTAKES & UTILITY ACCESSES	C.14
110-16	REMOVAL OF LIGHT POLES & CONCRETE FOOTINGS	C.15
110-17	CLEARING & GRUBBING	C.15
111-01	COORDINATION NOTES	C.04
111-25	INDEX OF TABULATIONS	C.05
112-3	RAILROAD APPROACH SECTIONS	C.15
112-4	CURBS & RAISED ISLANDS	C.15
112-9	SHOULDERS	C.16
190-62	EXISTING SIGNS TO BE REMOVED	C.16
262-6	UTILITIES (NOT POINT 25)	C.16
5010-A-1	WATER MAIN, TRENCHED	C.17
5010-C-2	FITTINGS, BY WEIGHT	C.17
5010-D-0	WATER SERVICE STUBS	C.17
5020-A-0	VALVES	C.17
5020-C-0	FIRE HYDRANT ASSEMBLY	C.17
5020-C-1	REMOVE FIRE HYDRANT ASSEMBLY	C.17
-	UTILITY CONTACT LIST	C.05

UTILITIES
MEDIACOM BRIAN KADNER 207 W PEARL STREET DECORAH, IOWA 52101 845-544-9656 bkadner@mediacomcc.com
WINDSTREAM DAN HOGAN 740-984-1717 2015 RAINBOW ROAD WATERFORD, OHIO 45786 dan.hogan@windstream.com
LITTLE WAPSIE COMMUNICATIONS ETHAN KLEITSCH 121 MAIN STREET READLYN, IOWA 50668 319-279-3375 tech3@readlyntelco.com
ELECTRIC BEN DELAGARDELLE, CITY OF FAIRBANK 116 EAST MAIN STREET FAIRBANK, IOWA 50629 563-635-2869 fairbankpw@fairbank-ia.org
GAS BEN DELAGARDELLE, CITY OF FAIRBANK 116 EAST MAIN STREET FAIRBANK, IOWA 50629 563-635-2869 fairbankpw@fairbank-ia.org
WATER BRIAN DELAGARDELLE, CITY OF FAIRBANK 116 EAST MAIN STREET FAIRBANK, IOWA 50629 563-635-2869 cedarvalleypump@jtt.net
SANITARY BRIAN DELAGARDELLE, CITY OF FAIRBANK 116 EAST MAIN STREET FAIRBANK, IOWA 50629 563-635-2869 cedarvalleypump@jtt.net
STORM BEN DELAGARDELLE, CITY OF FAIRBANK 116 EAST MAIN STREET FAIRBANK, IOWA 50629 563-635-2869 fairbankpw@fairbank-ia.org

STANDARD ROAD PLANS		
The following Standard Road Plans apply to construction work on this project.		
This Data Entry Sheet fills Tab 105-4 effective 10-18-11		
Number	Date	Title
BR-101	10-18-22	BRIDGE APPROACH SECTION (GENERAL DETAILS)
BR-102	10-17-17	BRIDGE APPROACH SECTION (TWO LANE, ABUTTING PCC PAVEMENT)
DR-121	04-18-17	CONNECTED PIPE JOINTS
DR-201	04-21-20	CONCRETE APRONS
DR-303	10-17-17	SUBDRAINS (LONGITUDINAL)
DR-306	10-16-18	PRECAST CONCRETE HEADWALL FOR SUBDRAIN OUTLETS
EC-204	10-19-21	PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES
EC-301	10-18-22	ROCK EROSION CONTROL (REC)
EC-602	10-21-20	OPEN-THROAT CURB INTAKE SEDIMENT FILTER
LI-101	10-21-14	LIGHT POLE LOCATION
LI-103	04-19-22	CONDUIT AND PRECAST HANDHOLES
LI-201	04-18-17	LIGHT POLE FOUNDATION
MI-210	10-20-15	PCC DRIVEWAYS AND ALLEYS
PM-110	04-21-20	LINE TYPES
PM-111	04-21-20	SYMBOLS AND LEGENDS
PM-120	10-21-14	STOP LINES AND ISLANDS
PM-240	04-20-21	RAILROAD CROSSING ON TWO-LANE ROADWAY
PM-420	10-15-19	TWO-LANE ROADWAY WITH NO TURN LANES (ONE-WAY STOP CONDITION)
PM-520	10-15-19	TWO-LANE ROADWAY WITH NO TURN LANES (TWO-WAY STOP CONDITION)
PR-202	10-21-14	NOTCHES FOR RESURFACING (WITH OR WITHOUT RUNOUT)
PV-101	04-19-22	JOINTS
PV-102	04-21-20	PCC CURB DETAILS
PV-103	04-19-22	MANHOLE BOXOUTS IN PCC PAVEMENT
PV-106	10-17-17	PCC RAILROAD APPROACH SECTION
PV-201	04-19-22	MANHOLE BOXOUTS IN HMA PAVEMENT AND HMA OVERLAYS
PV-202	04-21-20	HOT MIX ASPHALT RESURFACING
PV-203	04-21-20	HMA BASE WIDENING
SI-881	04-16-19	SPECIAL SIGNS FOR WORK ZONES
SI-882	10-18-16	SPECIAL SIGNS FOR RESTRICTED WIDTH TRAFFIC CONTROL ZONES
SW-101	04-17-18	TRENCH BEDDING AND BACKFILL ZONES
SW-102	04-20-21	RIGID GRAVITY PIPE TRENCH BEDDING
SW-104	04-20-21	PRESSURE PIPE TRENCH BEDDING
SW-211	04-17-18	STORM SEWER PIPE CONNECTIONS
SW-401	04-20-21	CIRCULAR STORM SEWER MANHOLE
SW-501	04-21-20	SINGLE GRATE INTAKE
SW-503	04-21-20	SINGLE GRATE INTAKE WITH MANHOLE
SW-505	04-21-20	DOUBLE GRATE INTAKE
SW-506	04-21-20	DOUBLE GRATE INTAKE WITH MANHOLE
SW-507	04-21-20	SINGLE OPEN-THROAT CURB INTAKE, SMALL BOX
SW-509	04-21-20	DOUBLE OPEN-THROAT CURB INTAKE, SMALL BOX
SW-511	04-21-20	RECTANGULAR AREA INTAKE
SW-512	04-21-20	CIRCULAR AREA INTAKE
SW-514	04-17-18	BOXOUT FOR GRATE INTAKES
SW-602	04-21-20	CASTINGS FOR STORM SEWER MANHOLES
SW-603	10-16-18	CASTINGS FOR GRATE INTAKES
SW-604	04-21-20	CASTINGS FOR AREA INTAKES
TC-1	10-15-19	WORK NOT AFFECTING TRAFFIC (TWO-LANE OR MULTI-LANE)
TC-81	10-15-19	RESTRICTED WIDTH SIGNING (LESS THAN 14.5 FEET)
TC-202	10-19-21	WORK WITHIN 15 FEET OF TRAVELED WAY
TC-213	10-18-22	LANE CLOSURE WITH FLAGGERS
TC-214	04-18-23	LANE CLOSURE WITH FLAGGERS FOR USE WITH PILOT CAR
TC-216	10-18-16	LANE CLOSURE WITH SIGNALS
TC-252	04-21-20	ROUTES CLOSED TO TRAFFIC
WM-101	10-18-16	THRUST BLOCKS
WM-102	10-18-16	TRACER SYSTEM
WM-201	04-19-22	FIRE HYDRANT ASSEMBLY
SUDAS 4030.221	10-21-14	APRON FOOTING
SUDAS 4040.232	2020	SUBDRAIN CLEANOUT
SUDAS 5010.901	10-21-14	MINIMUM CLEARANCE BETWEEN WATER SERVICE AND STRUCTURE

PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES									
Possible Standards: EC-204									
This Data Entry Sheet fills Tab 100-19 effective 10-19-21									
Location		Perimeter and Slope			Ditch Check			Remarks	
Begin Station	End Station	Side	Length of Installation			Length of Installation			
			9 inch Dia	12 inch Dia	20 inch Dia	12 inch Dia	20 inch Dia		
		LF		LF	LF		LF		
78+95.9	79+02.7	L		30				DIVISION 2 - 3R	
81+60.6	81+62.7	R		30				67% (20 LF) DIVISION 1 - CITY; 33% (10 LF) DIVISION 2 - 3R	
83+16.0	83+17.7	R		55				DIVISION 1 - CITY	
101+28.0	103+54.3	L		227				DIVISION 2 - 3R	
101+56.5	103+06.2	R		151				DIVISION 2 - 3R	

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
TABULATIONS

SET TYPE: BID LETTING

G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 C SHEETS.dwg, C.05

JOB NUMBER:
22-1100

SHEET NUMBER:
C.05

PCC PAVEMENT

This Data Entry Sheet fills Tab 100-24 MODIFIED effective 4-21-15

Location		Mainline			Intersection Area										Total Area By Pavement Thickness		Modified Subbase	Remarks		
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	1st Street North	1st Street South	2nd Street North	2nd Street South	3rd Street North	3rd Street South	East Main Street	4th Street North	4th Street South	Grove Street West			SY	
		FT	FT	SY	SY	SY	SY	SY	SY	SY	SY	SY	SY	SY	SY	7 IN			9 IN	TON
EAST MAIN STREET	BOTH	83+64.0	96+42.9	32	1278.9	4793.4												4793.4	3127	DIVISION 2 - DOT 3R
EAST MAIN STREET	EB	83+64.0	95+33.7	2.5	1169.7	278.2												278.2	182	DIVISION 1 - CITY
EAST MAIN STREET	WB	83+64.0	95+61.3	2.5	1197.3	284.4												284.4	186	DIVISION 1 - CITY
EAST MAIN STREET	EB	84+06.2	95+33.7	6.5	1127.5	822.6		124.0		292.1		156.4						1395.2	829	DIVISION 1 - CITY
EAST MAIN STREET	WB	84+06.2	95+61.3	6.5	1155.1	834.8	256.8		231.7		156.9		62.0					1542.1	1006	DIVISION 1 - CITY
4TH STREET	BOTH	96+26.3	100+39.5	31	413.2	1653.8												1653.8	1079	DIVISION 2 - DOT 3R
4TH STREET	BOTH	95+38.9	100+72.6										92.0	128.0				219.9	144	DIVISION 1 - CITY
GROVE STREET	BOTH	99+61.4	101+43.9	35	182.5	598.6												598.6	391	DIVISION 2 - DOT 3R
GROVE STREET	BOTH	101+43.9	103+51.5	32	207.6	746.9												746.9	487	DIVISION 2 - DOT 3R
GROVE STREET	BOTH	99+13.8	99+61.4												188.5	188.5		188.5	123	DIVISION 1 - CITY
DIVISION 1 TOTALS																				
DIVISION 2 TOTALS																				

HMA PAVEMENT

This Data Entry Sheet fills Tab 100-25 effective 4-21-15

Location		Mainline			Total Area			HMA Pavement Thicknesses			Hot Mix Asphalt Pavement						Bid Items					Remarks				
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	Surface	Intermediate	Base	Surface		Intermediate		Base		Binder			Special Backfill Cross Section Area	Special Backfill	Modified Subbase		Granular Subbase	Pavement Scarification		
		FT	FT	SY	SY	TONS				SY	TONS	SY	TONS	SY	TONS	TONS	TONS	SF							TONS	TONS
FAIRBANK STREET	BOTH	65+03.2	65+49.8	28.6	46.6	153.9	2			16	153.9					1.0								153.9	DIVISION 2 - DOT 3R	
WALNUT STREET	BOTH	65+72.3	70+02.0	25.3	429.7	1428.7	2			151	1428.7					9.6								1428.7	DIVISION 2 - DOT 3R	
WEST MAIN STREET	BOTH	69+76.1	81+10.0	27.0	1133.9	3818.0	2			404	3818.0					25.8								3278.6	DIVISION 2 - DOT 3R	
EAST MAIN STREET	BOTH	85+56.5	86+11.1	10.0	54.0	60.0	1.5	1.5		5	60.0	5	60.0			0.3	0.3									DIVISION 1 - CITY
1ST STREET SOUTH	BOTH	85+71.4	85+96.9	10.0	26.0	26.7	1.5	1.5		2	26.7	2	26.7			0.1	0.1									DIVISION 1 - CITY
2ND STREET NORTH	BOTH	89+54.6	90+03.6	15.0	49.0	81.7	1.5	1.5		6	81.7	6	81.7			0.4	0.4									DIVISION 1 - CITY
2ND STREET SOUTH	BOTH	89+52.0	90+01.0	15.0	49.0	81.7	1.5	1.5		6	81.7	6	81.7			0.4	0.4									DIVISION 1 - CITY
3RD STREET NORTH	BOTH	93+54.6	93+83.6	10.0	29.0	32.3	1.5	1.5		3	32.3	2	32.3			0.2	0.2									DIVISION 1 - CITY
3RD STREET SOUTH	BOTH	93+59.4	93+85.4	10.0	26.0	28.9	1.5	1.5		2	28.9	2	28.9			0.1	0.1									DIVISION 1 - CITY
E MAIN/4TH STREET	BOTH	96+55.6	96+65.6	10.0	35.0	38.9	1.5	1.5		3	38.9	3	38.9			0.2	0.2									DIVISION 1 - CITY
DIVISION 1 TOTALS						350.2				28	350.2	27	350.2			1.8	1.8				152					
DIVISION 2 TOTALS						5400.5				571	5400.5					36.5								4861.1		

OPEN-THROAT CURB INTAKE SEDIMENT FILTER

Possible Standard: EC-602

This Data Entry Sheet fills Tab 100-36 effective 10-16-18

Location Station	Side	Installation	Maintenance	Removal	Remarks
		LF	EACH	EACH	
EAST MAIN STREET					
95+86.3	L	8	1	1	DIVISION 1 - CITY
96+46.3	R	8	1	1	DIVISION 1 - CITY

ROCK EROSION CONTROL

Refer to EC-301 and Detail 570-8

This Data Entry Sheet fills Tab 100-23 MODIFIED effective 4-17-18

Location		Begin Station	End Station	Side	L	W	Material Bid Quantities		Remarks
Road Identification							Eng. Fabric	Class C Revetment	
					FT	FT	SY	TON	
WEST MAIN STREET - BRIDGE		81+57.9	81+91.8	RT	25.0	20.0	40.0	72.0	67% (27 SY; 48 TON) DIVISION 1; 33% (13 SY; 24 TON) DIVISION 2 GROUT TO BE INCIDENTAL
EAST MAIN STREET - BRIDGE		82+82.6	83+25.2	RT	40.0	30.0	90.0	163.0	DIVISION 1 - CITY GROUT TO BE INCIDENTAL



ILLINOIS
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OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
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PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
TABULATIONS

SET TYPE: BID LETTING

G:\C30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 C SHEETS.dwg, C.06

JOB NUMBER:
22-1100

SHEET NUMBER:
C.06

GRATE INTAKE SEDIMENT FILTER BAG					
Possible Detail: 570-7					
This Data Entry Sheet fills Tab 100-37 effective 4-18-17					
Location Station	Side	Installation EACH	Maintenance EACH	Removal EACH	Remarks
WALNUT STREET					
65+51.0	L	1	1	1	DIVISION 2 - DOT 3R
65+67.1	R	1	1	1	DIVISION 2 - DOT 3R
66+63.7	L	1	1	1	DIVISION 2 - DOT 3R
67+93.8	L	1	1	1	DIVISION 2 - DOT 3R
68+73.9	L	1	1	1	DIVISION 2 - DOT 3R
69+90.0	L	1	1	1	DIVISION 2 - DOT 3R
WEST MAIN STREET					
69+83.1	L	1	1	1	DIVISION 2 - DOT 3R
70+53.1	L	1	1	1	DIVISION 2 - DOT 3R
71+43.3	R	1	1	1	DIVISION 2 - DOT 3R
72+00.8	L	1	1	1	DIVISION 2 - DOT 3R
73+64.3	L	1	1	1	DIVISION 2 - DOT 3R
73+93.6	R	1	1	1	DIVISION 2 - DOT 3R
74+18.0	L	1	1	1	DIVISION 2 - DOT 3R
74+58.2	L	1	1	1	DIVISION 2 - DOT 3R
77+26.9	R	1	1	1	DIVISION 2 - DOT 3R
78+67.4	L	1	1	1	DIVISION 2 - DOT 3R
78+94.4	R	1	1	1	DIVISION 2 - DOT 3R
79+52.1	L	1	1	1	DIVISION 2 - DOT 3R
79+96.7	R	1	1	1	DIVISION 2 - DOT 3R
EAST MAIN STREET					
84+75.0	R	1	1	1	DIVISION 1 - CITY
84+75.0	L	1	1	1	DIVISION 1 - CITY
86+27.0	R	1	1	1	DIVISION 1 - CITY
86+27.0	L	1	1	1	DIVISION 1 - CITY
88+27.5	R	1	1	1	DIVISION 1 - CITY
88+27.5	L	1	1	1	DIVISION 1 - CITY
89+49.5	R	1	1	1	DIVISION 1 - CITY
89+52.0	L	1	1	1	DIVISION 1 - CITY
89+99.1	L	1	1	1	DIVISION 1 - CITY
90+22.2	R	1	1	1	DIVISION 1 - CITY
90+22.2	L	1	1	1	DIVISION 1 - CITY
90+60.6	L	1	1	1	DIVISION 1 - CITY
92+08.5	R	1	1	1	DIVISION 1 - CITY
92+08.5	L	1	1	1	DIVISION 1 - CITY
93+45.4	R	1	1	1	DIVISION 1 - CITY
93+56.4	L	1	1	1	DIVISION 1 - CITY
93+56.9	R	1	1	1	DIVISION 1 - CITY
93+85.9	L	1	1	1	DIVISION 1 - CITY
93+87.9	R	1	1	1	DIVISION 1 - CITY
94+09.2	L	1	1	1	DIVISION 1 - CITY
94+15.4	R	1	1	1	DIVISION 1 - CITY
96+22.3	L	1	1	1	DIVISION 1 - CITY
96+48.1	L	1	1	1	DIVISION 1 - CITY
4TH STREET					
96+46.9	L	1	1	1	DIVISION 1 - CITY
96+83.5	R	1	1	1	DIVISION 1 - CITY
96+94.7	L	1	1	1	DIVISION 1 - CITY
96+95.0	R	1	1	1	DIVISION 1 - CITY
97+95.4	L	1	1	1	DIVISION 1 - CITY
99+21.8	L	1	1	1	DIVISION 1 - CITY
GROVE STREET					
100+16.5	R	1	1	1	DIVISION 1 - CITY
100+43.5	R	1	1	1	DIVISION 1 - CITY

ACCESS POINTS, SAFETY RAMPS, AND PRIVATE PARKING											
Refer to Cross-Sections											
Length of Unclassified Pipe calculated is based on using Corrugated Metal Pipe.											
① Refer to MI-210											
② Refer to EW-501.											
③ Refer to EW-501 or EW-502.											
*Predetermined for access point not constructed with this project.											
This Data Entry Sheet fills Tab 102-3 MODIFIED effective 10-16-18											
Location	Type	Length of Opening ①			①	②	Driveway Surface Area		Driveway Surfacing Material		Remarks
Station	Side	A, B, C, Safety Ramp, or Predetermined*	Case	1 1/2" Dropped Curb	3" Dropped Curb	W	PR	HMA	PCC	TON	
			1 or 2	LF	LF	FT	FT	SY	SY		
EAST MAIN STREET											
85+48.26	R		N/A							39	DIVISION 1 - CITY - CONCRETE PARKING AREA FOR DON'S TRUCKS
85+99.41	R		N/A					42			DIVISION 1 - CITY - ASPHALT PARKING AREA FOR STERLING TRUCKS
93+85.97	L		N/A					26	10		DIVISION 1 - CITY - ASPHALT PARKING AREA FOR FAIRBANK FLOOR COVERING
93+96.52	R		N/A					68			DIVISION 1 - CITY - ASPHALT PARKING AREA FOR R&W HOLDINGS LLC.
95+71.40	L		N/A					53			DIVISION 1 - CITY - ASPHALT AREA FOR FAIRBANK FOOD CENTER
4TH STREET											
96+57.31	R		N/A					225			DIVISION 1 - CITY - ASPHALT PARKING AREA FOR R&W HOLDINGS LLC.
96+65	L		N/A			10			36		DIVISION 1 - CITY - PARKING LOT
97+74.77	R		N/A					124			DIVISION 1 - CITY - ASPHALT PARKING AREA FOR R&W HOLDINGS LLC.
97+74.77	R		1	72		72			39		DIVISION 1 - CITY - APPROACH FOR R&W HOLDINGS AND ALLEY
98+11.02	L		1	65		34	15		74		DIVISION 1 - CITY - CASEY'S DRIVE
98+93.75	R		N/A					442			DIVISION 1 - CITY - ASPHALT AREA FOR R&W HOLDINGS LLC.
98+93.75	R		1	25		25			18		DIVISION 1 - CITY - APPROACH FOR R&W HOLDINGS LLC. WAREHOUSE
GROVE STREET											
99+51.50	L		1	40		40			17		DIVISION 1 - CITY
101+00.04	L		1	56		37	10		82		DIVISION 1 - CITY - CASEY'S DRIVE

EXISTING PAVEMENT																					
This Data Entry Sheet fills Tab 102-5 effective 04-18-17																					
No.	Location					Year	Type	Project Number	Surface		Base		Subbase		Removal		Coarse Aggregate			Reinforcement	Remarks
	County	Route	Dir. of Travel	Begin Ref. Loc. Sign	End Ref. Loc. Sign				Type	Depth IN	Type	Depth IN	Type	Depth IN	Type	Depth IN	Source	Type	Durability Class	Type	
1	10	281	BOTH	65+03.8	81+80.0			HMA	3	HMA	2.5	STONE	6								
2	10	281	BOTH	83+64.0	100+01.5			HMA	5	PCC	7	STONE	6								
3	10	281	BOTH	100+01.5	103+51.5			HMA	5.5	PCC	7	STONE	6								

FULL-DEPTH PATCHES																				
Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105, and PR-140.																				
This Data Entry Sheet fills Tab 102-6C effective 4-18-17																				
Count	Station	Reference Location Sign	Lane	Dimension			PCC Patches				HMA Patches	Composite HMA	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks
				Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels										
			L, R, or B	FT	FT	IN	PR-103	PR-102	PR-104	PR-105	SY	TON	SY	SY	PR-101 or PR-140	No.	No.	No.	No.	No.
1	66+08.92		R	5.0	5.0	3.0					2.8									DIVISION 2 - DOT 3R
2	66+26.38		R	7.9	29.3	3.0					12.7									DIVISION 2 - DOT 3R

NOTCHES AND RUNOUTS FOR RESURFACING											
Refer to PR-201 and PR-202.											
This Data Entry Sheet fills Tab 102-16 MODIFIED effective 10-21-14											
Road ID	Location Station	Type of Notch or Runout	Runout Length			Runout Ratio	Remarks				
			Course Thickness	Posted Speed Limit	MPH			FT/IN	FT	IN	
FAIRBANK STREET - WEST	65+03.2	Type 'N2'	2.0			2.0	20 to 40	25.0	50.0	2.0	
SOUTH WALNUT STREET	65+66.1	Type 'N2'	2.0			2.0	20 to 40	25.0	50.0	2.0	
FAIRBANK STREET - EAST	65+58.9	Type 'N2'	2.0			2.0	20 to 40	25.0	50.0	2.0	
WEST MAIN STREET	69+51.2	Type 'N2'	2.0			2.0	20 to 40	25.0	50.0	2.0	
NORTH WALNUT STREET	70+02.0	Type 'N2'	2.0			2.0	20 to 40	25.0	50.0	2.0	
WASHINGTON STREET	74+37.6	Type 'N2'	2.0			2.0	20 to 40	25.0	50.0	2.0	
IOWA STREET	77+53.6	Type 'N2'	2.0			2.0	20 to 40	25.0	50.0	2.0	
WATER STREET	79+17.2	Type 'N2'	2.0			2.0	20 to 40	25.0	50.0	2.0	
BRIDGE	81+10.0	Type 'N2'	2.0			2.0	20 to 40	25.0	50.0	2.0	

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
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OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
TABULATIONS

SET TYPE: BID LETTING

G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 C SHEETS.dwg, C.07

JOB NUMBER:
22-1100

SHEET NUMBER:
C.07

STORM SEWER

This Data Entry Sheet fills Tab 104-5B MODIFIED effective 10-20-15

① Diameter or equivalent diameter
* Bid Item

INTAKES AND UTILITY ACCESSES					PIPES														
No.					Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 2 ft length is added to each side of the Design Length to account for estimated length to center of structures.														
					Location Station and Offset		*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Notes	Line No.	Intake/ Utility Access No.		Class 'D'	① Pipe Size IN	Bid* Length FT	Design Length FT	Slope %	Connected Pipe Joint (DR-121) Type
From	To	Outlet Elevation	Inlet Elevation																
					4TH STREET														
					DP57	D40	D37			18	96	92	0.60%			976.62	977.17	M.13	DIVISION 1 - CITY
					DP58	D41	D40			18	131	127	1.50%			977.27	979.17	M.13	DIVISION 1 - CITY
					DP59	EXISTING 15" HDPE	D40			15	20	18	1.00%			977.30	977.48	M.13	DIVISION 1 - CITY
					DP60	D42	D41			18	103	99	1.27%			979.27	980.52	M.13	DIVISION 1 - CITY
					GROVE STREET														
					DP61	D43	D42			15	41	37	1.00%			980.62	980.99	M.13	DIVISION 1 - CITY

LIST OF SUBDRAIN WORK

Possible Standards: DR-121, DR-201, DR-203, DR-301, DR-302, DR-303, DR-305 and DR-306. Possible Detail: 500-10.

This Data Entry Sheet fills Tab 104-5C effective 10-17-17																			
Location		Pipe			Aprons		Outlets				Connected Pipe Joints*		Trench Drain LF	Granular Material CY	Porous Backfill* CY	Class "A" Crushed Stone* CY	Remarks		
No.	Station to Station	Side	Type of Installation DR-301, DR-302, DR-303	Concrete, C.M.P., or Plastic	Dia. IN	Length LF	DR-201 No.	DR-203 No.	500-10 No.	DR-305 Type No.	DR-306 No.	DR-121 Type						Blanket No.	
WEST MAIN STREET																			
1	75+27.4	75+27.4	R	CORE DRILL	NON-PERF HDPE	6	10.0											DIVISION 1 - CITY	
2	76+15.6	76+15.6	R	CORE DRILL	NON-PERF HDPE	6	10.0											DIVISION 1 - CITY	
EAST MAIN STREET																			
3	83+94.0	84+01.9	BRIDGE	CORE DRILL	PERFORATED HDPE	6	78.9											DIVISION 2 - DOT 3R - 1 TYPE A-2 SUBDRAIN CLEANOUT	
4	84+06.3	84+71.7	L	DR-303	PERFORATED HDPE	6	65.3											DIVISION 2 - DOT 3R	
5	84+06.3	84+75.3	R	DR-303	PERFORATED HDPE	6	69.6											DIVISION 2 - DOT 3R	
6	84+78.3	85+48.7	L	DR-303	NON-PERF HDPE	6	71.0											DIVISION 1 - CITY - DOWNSPOUT FOR COSTA'S SPORTS BAR & GRILL	
7	84+78.3	86+23.7	L	DR-303	PERFORATED HDPE	6	145.2											DIVISION 2 - DOT 3R	
8	84+78.3	86+27.4	R	DR-303	PERFORATED HDPE	6	150.4											DIVISION 2 - DOT 3R	
9	85+48.5	85+48.5	R	CORE DRILL	NON-PERF HDPE	6	16.2											DIVISION 1 - CITY - DOWNSPOUT FOR DON'S TRUCKS	
10	86+28.9	86+42.9	R	DR-303	NON-PERF HDPE	6	22.6											DIVISION 1 - CITY - DOWNSPOUT FOR STERLING TRUCKS	
11	86+30.4	88+24.2	L	DR-303	PERFORATED HDPE	6	193.8											DIVISION 2 - DOT 3R	
12	86+30.4	88+27.9	R	DR-303	PERFORATED HDPE	6	198.5											DIVISION 2 - DOT 3R	
13	88+14.6	88+25.7	L	DR-303	NON-PERF HDPE	6	16.5											DIVISION 1 - CITY - DOWNSPOUT FOR AMERICAN LEGION	
14	88+30.9	89+56.6	R	DR-303	PERFORATED HDPE	6	127.1											DIVISION 2 - DOT 3R	
15	88+30.9	89+49.5	L	DR-303	PERFORATED HDPE	6	188.1											DIVISION 2 - DOT 3R - CAP TO BE INCIDENTAL TO SUBDRAIN INSTALLATION	
16	89+08.8	89+54.7	L	CORE DRILL	NON-PERF HDPE	6	46.0											DIVISION 1 - CITY - DOWNSPOUT FOR VAN DAELE INSURANCE	
17	89+55.0	90+18.9	L	DR-303/CORE DRILL	PERFORATED HDPE	6	188.1											DIVISION 2 - DOT 3R - SUBDRAIN AT 2ND STREET NORTH	
18	89+33.8	89+49.0	R	DR-303	NON-PERF HDPE	6	16.8											DIVISION 1 - CITY - DOWNSPOUT FOR NORTHEAST SECURITY BANK	
19	90+01.4	90+18.9	R	DR-303	PERFORATED HDPE	6	88.0											DIVISION 1 - CITY	
20	90+25.5	92+08.7	L	DR-303	PERFORATED HDPE	6	180.5											DIVISION 2 - DOT 3R	
21	90+25.5	92+08.7	R	DR-303	PERFORATED HDPE	6	183.2											DIVISION 2 - DOT 3R	
22	90+71.2	90+71.2	R	CORE DRILL	NON-PERF HDPE	6	41.9											DIVISION 1 - CITY - DOWNSPOUT FOR CITY SHOP	
23	92+11.7	93+58.9	R	DR-303	PERFORATED HDPE	6	167.5											DIVISION 2 - DOT 3R	
24	92+11.7	94+05.8	L	DR-303	PERFORATED HDPE	6	194.1											DIVISION 2 - DOT 3R	
25	93+44.6	93+53.7	L	DR-303	NON-PERF HDPE	6	16.9											DIVISION 1 - CITY - DOWNSPOUT FOR RYANT PROPERTY	
26	93+86.9	93+86.9	R	DR-303	PERFORATED HDPE	6	15.5											DIVISION 1 - CITY	
27	94+02.6	94+08.9	L	DR-303	NON-PERF HDPE	6	14.8											DIVISION 1 - CITY - DOWNSPOUT FOR FAIRBANK FLOOR COVERING	
28	94+12.5	95+86.2	L	DR-303	PERFORATED HDPE	6	187.6											DIVISION 2 - DOT 3R	
29	95+86.3	95+88.3	L	DR-303	PERFORATED HDPE	6	10.0											DIVISION 1 - CITY	
30	96+21.2	96+21.3	L	DR-303	PERFORATED HDPE	6	10.0											DIVISION 1 - CITY	
31	96+40.5	96+48.5	L	DR-303	NON-PERF HDPE	6	18.9											DIVISION 1 - CITY - DOWNSPOUT FOR FAIRBANK COMMUNITY DAY CARE CENTER	
32	96+45.4	96+49.3	R	DR-303	NON-PERF HDPE	6	16.5											DIVISION 1 - CITY - DOWNSPOUT FOR VISION SALON	
33	96+44.7	96+50.7	R	DR-303	NON-PERF HDPE	6	10.2											DIVISION 1 - CITY - DOWNSPOUT FOR FAIRBANK COMMUNITY DAY CARE CENTER	
34	96+46.8	96+64.1	R	DR-303	NON-PERF HDPE	6	19.9											DIVISION 1 - CITY - DOWNSPOUT FOR FAIRBANK COMMUNITY DAY CARE CENTER	
4TH STREET																			
35	96+98.3	100+65.2	R	DR-303	PERFORATED HDPE	6	368.9											DIVISION 2 - DOT 3R - 1 TYPE A-2 SUBDRAIN CLEANOUT	
GROVE STREET																			
36	100+35.1	103+51.2	L	CORE DRILL	PERFORATED HDPE	6	317.8											DIVISION 2 - DOT 3R - 1 TYPE A-2 SUBDRAIN CLEANOUT	
37	100+45.0	102+70.9	R	DR-303	PERFORATED HDPE	6	228.5											DIVISION 2 - DOT 3R - 1 TYPE A-2 SUBDRAIN CLEANOUT	



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DRAWN BY: AFC
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REVISIONS		
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DRAWING:
TABULATIONS

SET TYPE: BID LETTING
G:\C30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 C SHEETS.dwg, C.09

JOB NUMBER:
22-1100

SHEET NUMBER:
C.09

ADJUSTMENT OF FIXTURES					
This Data Entry Sheet fills Tab 104-10 effective 08-01-08					
NO.	LOCATION STATION	SIDE	TYPE OF FIXTURE	ADJUSTMENT	DIVISION
1	66+22.1	RT	MANHOLE	MINOR - EX 7" OF SPACER RINGS ELEV:976.92 - PR ELEV:976.85	DIVISION 2 - DOT 3R
2	66+32.9	RT	WATER VALVE	MINOR - EX ELEV:976.86 - PR ELEV:976.80	DIVISION 2 - DOT 3R
3	69+79.2	LT	WATER VALVE	MINOR - EX ELEV:976.49 - PR ELEV:976.36	DIVISION 2 - DOT 3R
4	74+24.1	LT	WATER VALVE	MINOR - EX ELEV:971.96 - PR ELEV:972.06	DIVISION 2 - DOT 3R
5	74+42.0	RT	MANHOLE	MINOR - EX 18" OF SPACER RINGS ELEV:971.64 - PR ELEV:971.66	DIVISION 2 - DOT 3R
6	77+51.6	RT	MANHOLE	MINOR - EX 5" OF SPACER RINGS ELEV:967.97 - PR ELEV:968.08	DIVISION 2 - DOT 3R
7	77+64.1	RT	WATER VALVE	MINOR - EX ELEV:967.49 - PR ELEV:967.59	DIVISION 2 - DOT 3R
8	85+83.0	RT	MANHOLE	MINOR - EX 6" OF SPACER RINGS ELEV:968.03 - PR ELEV:968.08	DIVISION 1 - CITY
9	95+92.2	LT	WATER VALVE	MINOR - EX ELEV:983.15 - PR ELEV:983.31	DIVISION 2 - DOT 3R
10	97+99.8	RT	MANHOLE	MINOR - EX 6" OF SPACER RINGS ELEV:983.85 - PR ELEV:983.83	DIVISION 1 - CITY

SAFETY CLOSURES			
Refer to Section 2518 of the Standard Specifications			
This Data Entry Sheet fills Tab 108-13A effective 8-1-08			
Station	Closure Type		Remarks
	Road Qty.	Hazard Qty.	
86+23.7	1		DIV 2 - STAGE 2 ON EAST MAIN STREET
96+85.0	1		DIV 1 - STAGE 2 ON 4TH STREET SOUTH
95+33.7	1		DIV 1 - STAGE 3 EAST MAIN STREET
96+45.0	1		DIV 1 - STAGE 3 EAST MAIN STREET
99+61.4	1		DIV 1 - STAGE 3 GROVE STREET
100+50.0	1		DIV 2 - STAGE 3 GROVE STREET
99+61.4	1		DIV 1 - STAGE 4 4TH STREET SOUTH
103+50.0	1		DIV 2 - STAGE 4 GROVE STREET

LIGHTING INSTALLATIONS						
This Data Entry Sheet fills Tab 108-1 effective 10-21-14						
Location		LI-101		LI-201	Remarks - SEE P SHEETS FOR ADDITIONAL LIGHTING DETAIL	
No.	Station	Type	A	E FT		
WEST MAIN STREET						
1	81+81.5 R				A	POLE LOCATED ON BRIDGE
2	81+82.7 L				A	POLE LOCATED ON BRIDGE
EAST MAIN STREET						
3	83+26.2 R				A	POLE LOCATED ON BRIDGE
4	83+26.2 L				A	POLE LOCATED ON BRIDGE
5	84+39.1 R				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
6	84+39.1 L				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
7	85+39.1 R				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
8	85+39.1 L				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
9	86+44.4 R				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
10	86+44.4 L				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
11	87+37.4 R				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
12	87+37.4 L				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
13	88+35.4 R				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
14	88+35.4 L				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
15	89+38.6 R				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
16	89+38.6 L				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
17	90+31.0 R				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
18	90+38.9 L				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
19	91+39.3 R				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
20	91+39.3 L				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
21	92+43.3 R				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
22	92+43.3 L				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
23	93+27.1 R				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
24	93+27.1 L				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
25	94+26.8 R				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
26	94+26.8 L				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
27	95+34.0 R				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB
28	95+52.3 L				A	CENTER OF POLE TO BE 2.25' FROM BACK OF CURB

ELECTRICAL DUCTS					
This Data Entry Sheet fills Tab 108-2 MODIFIED effective 08-01-08					
Station to Station		Conduit Type	Dia. IN	Length FT	Remarks - TOTAL LENGTH FOR BOTH CONDUITS, SEE P SHEETS FOR ADDITIONAL LIGHTING DETAIL
81+81.5 R	83+26.2 R	PVC SCH. 80	1.0	144.0	
81+82.7 L	83+26.2 L	PVC SCH. 80	1.0	144.0	
83+26.2 R	84+39.1 R	PVC SCH. 80	1.0	112.9	
83+26.2 L	84+39.1 L	PVC SCH. 80	1.0	112.9	
84+39.1 R	85+39.1 R	PVC SCH. 80	1.0	100.0	
84+39.1 L	85+39.1 L	PVC SCH. 80	1.0	100.0	
85+39.1 R	86+44.4 R	PVC SCH. 80	1.0	105.6	
85+39.1 L	86+44.4 L	PVC SCH. 80	1.0	105.1	
86+44.4 R	87+37.4 R	PVC SCH. 80	1.0	92.9	
86+44.4 L	87+37.4 L	PVC SCH. 80	1.0	92.9	
87+37.4 R	88+35.4 R	PVC SCH. 80	1.0	98.0	
87+37.4 L	88+35.4 L	PVC SCH. 80	1.0	98.0	
88+35.4 R	89+38.6 R	PVC SCH. 80	1.0	103.2	
88+35.4 L	89+38.6 L	PVC SCH. 80	1.0	103.2	
89+38.6 R	90+31.0 R	PVC SCH. 80	1.0	92.5	
89+38.6 L	90+38.9 L	PVC SCH. 80	1.0	100.4	
90+31.0 R	91+39.3 R	PVC SCH. 80	1.0	108.3	
90+38.9 L	91+39.3 L	PVC SCH. 80	1.0	100.4	
91+39.3 R	92+43.3 R	PVC SCH. 80	1.0	104.0	
91+39.3 L	92+43.3 L	PVC SCH. 80	1.0	104.0	
92+43.3 R	93+27.1 R	PVC SCH. 80	1.0	83.8	
92+43.3 L	93+27.1 L	PVC SCH. 80	1.0	83.8	
93+27.1 R	93+52.4 L	PVC SCH. 80	1.0	74.4	
93+27.1 L	93+52.4 L	PVC SCH. 80	1.0	30.2	
93+27.1 R	94+26.8 R	PVC SCH. 80	1.0	99.7	
93+27.1 L	94+26.8 L	PVC SCH. 80	1.0	99.7	
94+26.8 R	95+34.0 R	PVC SCH. 80	1.0	107.2	
94+26.8 L	95+52.3 L	PVC SCH. 80	1.0	125.5	

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
TABULATIONS

SET TYPE: BID LETTING

G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 C SHEETS.dwg, C.10

JOB NUMBER:
22-1100

SHEET NUMBER:
C.10

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

***STB6 - For standard curb to be painted blue to indicate ADA accessible parking spaces, factor of 3.03.

**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

This Data Entry Sheet fills Tab 108-22 MODIFIED effective 4-16-13

BCY4: Broken Centerline (Yellow) @ 0.25

CBW6: Crosswalk Bar (White) @ 15.00

DCY4: Double Centerline (Yellow) @ 2.00

ELW4: Edge Line Right (White) @ 1.00

NPY4: No Passing Zone Line (Yellow) @ 1.25

SLW2: Stop Line (White) @ 6.00

SLW4: Solid Lane Line (White) @ 1.00

STY6: Standard Curb 6" (Yellow) @ 3.03

STB6: Standard Curb 6" (Blue) @ 3.03

Remarks

Table with columns: Road ID, Station to Station, Length (STA), Dir. of Travel, Marking Type, Side (L, C, R), BCY4* STA, CBW6 STA, DCY4 STA, ELW4 STA, NPY4** STA, SLW2 STA, SLW4 STA, STY6 STA, STB6 STA, and Remarks.



ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

Table with columns: REV. NO., DESCRIPTION, DATE

DRAWING:
TABULATIONS

SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 C SHEETS.dwg, C.11

JOB NUMBER:
22-1100

SHEET NUMBER:
C.11

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

***STB6 - For standard curb to be painted blue to indicate ADA accessible parking spaces, factor of 3.03.

**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

This Data Entry Sheet fills Tab 108-22 MODIFIED effective 4-16-13

BCY4: Broken Centerline (Yellow) @ 0.25		CBW6: Crosswalk Bar (White) @ 15.00		DCY4: Double Centerline (Yellow) @ 2.00		Remarks									
ELW4: Edge Line Right (White) @ 1.00		NPY4: No Passing Zone Line (Yellow) @ 1.25		SLW2: Stop Line (White) @ 6.00											
SLW4: Solid Lane Line (White) @ 1.00		STY6: Standard Curb 6" (Yellow) @ 3.03		STB6: Standard Curb 6" (Blue) @ 3.03											
Location						Length by Line Type (Unfactored)									
Road ID	Station to Station	Length (STA)	Dir. of Travel	Marking Type	Side	BCY4*	CBW6	DCY4	ELW4	NPY4**	SLW2	SLW4	STY6	STB6	Remarks
					L C R	STA	STA	STA	STA	STA	STA	STA	STA	STA	
MAIN ST./2ND ST. N	89+92.76	90+05.56	0.13	WB	Waterborne/Solvent Paint	L						0.91			SEE D.10 - D.14 FOR FURTHER DETAIL
MAIN ST./2ND ST. S	89+49.47	89+50.93	0.01	EB	Waterborne/Solvent Paint									0.12	NO PARKING HATCH - DIVISION 1 - CITY
MAIN ST./2ND ST. S	89+49.97	89+62.80	0.13	EB	Waterborne/Solvent Paint							1.09			DIVISION 1 - CITY
MAIN ST./2ND ST. S	89+49.97	89+49.97	0.00	EB	Waterborne/Solvent Paint								0.07		HANDICAP AND NO PARKING STALLS - DIVISION 1 - CITY
MAIN ST./2ND ST. S	89+59.63	89+93.63	0.34	EB	Waterborne/Solvent Paint										DIVISION 1 - CITY
MAIN ST./2ND ST. S	89+76.47	89+93.08	0.17	EB	Waterborne/Solvent Paint							0.17			2ND STREET NORTH - DIVISION 1 - CITY
MAIN ST./2ND ST. S	89+90.14	90+02.97	0.13	EB	Waterborne/Solvent Paint							1.42			DIVISION 1 - CITY
MAIN ST./2ND ST. S	89+95.71	90+02.01	0.06	EB	Waterborne/Solvent Paint								0.10		2 PARKING STALLS AND NO PARK HATCH - DIVISION 1
MAIN ST.	90+00.70	90+10.70	0.10	BOTH	Waterborne/Solvent Paint	L									DIVISION 1 - CITY
MAIN ST./2ND ST. S	90+02.01	90+02.97	0.01	EB	Waterborne/Solvent Paint									0.12	DIVISION 1 - CITY
MAIN ST./2ND ST. N	90+06.07	90+06.07	0.00	WB	Waterborne/Solvent Paint	L								0.12	DIVISION 1 - CITY
MAIN ST./2ND ST. N	90+06.09	90+06.09	0.00	WB	Waterborne/Solvent Paint	L								0.07	DIVISION 1 - CITY
MAIN ST.	90+26.03	90+46.53	0.21	WB	Waterborne/Solvent Paint	L								0.21	DIVISION 1 - CITY
MAIN ST.	90+26.03	90+40.46	0.14	EB	Waterborne/Solvent Paint									0.14	DIVISION 1 - CITY
MAIN ST.	90+46.53	91+42.53	0.96	WB	Waterborne/Solvent Paint	L						0.39			2 L-BARS AND 3 T-BARS WITHIN STATION RANGE - DIV 1
MAIN ST.	90+94.03	91+57.53	0.64	EB	Waterborne/Solvent Paint									0.30	2 L-BARS AND 2 T-BARS WITHIN STATION RANGE - DIV 1
MAIN ST.	91+18.53	91+42.53	0.24	WB	Waterborne/Solvent Paint	L								0.24	DIVISION 1 - CITY
MAIN ST.	91+42.53	91+47.50	0.05	WB	Waterborne/Solvent Paint	L								0.05	DIVISION 1 - CITY
MAIN ST.	91+42.53	91+57.53	0.15	WB	Waterborne/Solvent Paint	L								0.60	NO PARKING HATCH - DIVISION 1 - CITY
MAIN ST.	91+52.50	91+57.53	0.05	WB	Waterborne/Solvent Paint	L								0.05	DIVISION 1 - CITY
MAIN ST.	91+57.53	93+15.84	1.58	WB	Waterborne/Solvent Paint	L								0.66	2 L-BARS AND 6 T-BARS WITHIN STATION RANGE - DIV 1
MAIN ST.	91+97.91	93+07.91	1.10	EB	Waterborne/Solvent Paint									0.48	2 L-BARS AND 4 T-BARS WITHIN STATION RANGE - DIV 1
MAIN ST.	93+07.91	93+31.91	0.24	EB	Waterborne/Solvent Paint									0.24	DIVISION 1 - CITY
MAIN ST.	93+15.03	93+40.84	0.26	WB	Waterborne/Solvent Paint	L								0.26	DIVISION 1 - CITY
MAIN ST./3RD ST. N	93+60.21	93+86.21	0.26	WB	Waterborne/Solvent Paint	L								0.26	3RD STREET NORTH - DIVISION 1 - CITY
MAIN ST./3RD ST. N	93+60.79	93+73.31	0.13	WB	Waterborne/Solvent Paint	L								0.13	DIVISION 1 - CITY
MAIN ST./3RD ST. N	93+86.09	94+02.97	0.17	WB	Waterborne/Solvent Paint	L								0.78	3 PARKING STALLS WITHIN STATION RANGE - DIV 1
MAIN ST./3RD ST. S	93+53.58	93+91.58	0.38	EB	Waterborne/Solvent Paint									0.38	3RD STREET SOUTH - DIVISION 1 - CITY
MAIN ST./3RD ST. S	93+72.41	93+89.55	0.17	EB	Waterborne/Solvent Paint									0.17	DIVISION 1 - CITY
MAIN ST.	94+12.69	94+27.31	0.15	WB	Waterborne/Solvent Paint	L								0.15	DIVISION 1 - CITY
MAIN ST.	94+19.20	94+33.00	0.14	EB	Waterborne/Solvent Paint									0.14	DIVISION 1 - CITY
MAIN ST.	94+27.31	94+67.31	0.40	WB	Waterborne/Solvent Paint	L								0.21	2 L-BARS AND 1 T-BAR WITHIN STATION RANGE - DIV 1
MAIN ST.	94+33.00	94+73.00	0.40	EB	Waterborne/Solvent Paint									0.21	2 L-BARS AND 1 T-BAR WITHIN STATION RANGE - DIV 1
MAIN ST.	94+67.31	94+73.38	0.06	WB	Waterborne/Solvent Paint	L								0.06	DIVISION 1 - CITY
MAIN ST.	94+73.00	94+83.00	0.10	EB	Waterborne/Solvent Paint									0.10	DIVISION 1 - CITY
MAIN ST.	96+29.92	96+39.92	0.10	BOTH	Waterborne/Solvent Paint	L								0.38	DIVISION 1 - CITY
MAIN ST.	96+43.92	96+45.92	0.02	WB	Waterborne/Solvent Paint	L								0.20	DIVISION 1 - CITY
4TH ST. N/MAIN ST.	95+62.96	95+64.96	0.02	NB	Waterborne/Solvent Paint	L								0.19	DIVISION 1 - CITY
4th ST. N/MAIN ST.	95+68.96	95+78.96	0.10	BOTH	Waterborne/Solvent Paint	L								0.38	4TH STREET NORTH - DIVISION 1 - CITY
4TH ST.	96+28.77	96+38.77	0.10	BOTH	Waterborne/Solvent Paint	L								0.38	4TH STREET SOUTH - DIVISION 1 - CITY
4TH ST.	96+42.77	96+44.77	0.02	NB	Waterborne/Solvent Paint	L								0.16	DIVISION 2 - DOT 3R
4TH ST.	96+42.77	99+60.46	3.18	BOTH	Waterborne/Solvent Paint									3.18	DIVISION 2 - DOT 3R
4TH ST./MAIN ST.	99+60.46	99+62.46	0.02	SB	Waterborne/Solvent Paint									0.16	DIVISION 2 - DOT 3R
GROVE ST./4TH ST.	99+79.33	100+17.33	0.38	EB	Waterborne/Solvent Paint									0.38	4TH STREET SOUTH - DIVISION 1 - CITY
GROVE ST./4TH ST.	100+01.09	100+17.26	0.16	EB	Waterborne/Solvent Paint									0.16	DIVISION 1 - CITY
GROVE ST.	100+59.00	100+69.00	0.10	BOTH	Waterborne/Solvent Paint	L								0.30	GROVE STREET - DIVISION 1 - CITY
GROVE ST.	100+79.06	103+51.46	2.72	BOTH	Waterborne/Solvent Paint									2.72	DIVISION 2 - DOT 3R
GROVE ST.	101+23.77	103+69.93	2.46	WB	Waterborne/Solvent Paint	L								2.46	DIVISION 2 - DOT 3R
GROVE ST.	101+39.94	103+33.00	1.93	EB	Waterborne/Solvent Paint									1.93	DIVISION 2 - DOT 3R
GROVE ST.	103+14.11	103+16.11	0.02	EB	Waterborne/Solvent Paint									0.12	DIVISION 2 - DOT 3R
TOTAL							20.57	6.06	8.55	28.27	5.43	2.93	14.56	4.42	1.28
FACTORED TOTAL							5.14	90.95	17.11	28.27	6.79	17.56	14.56	13.39	3.88



ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
TABULATIONS

SET TYPE: **BID LETTING**
G:\C:\2022\22-1100 Fairbank Hwy 281\Plans\22-1100 C SHEETS.dwg, C.12

JOB NUMBER:
22-1100

SHEET NUMBER:
C.12

PAVEMENT MARKING SYMBOLS AND LEGENDS					
Refer to PM-111					
This Data Entry Sheet fills Tab 108-29 MODIFIED effective 4-21-15					
Road Identification	Location			Remarks	
	Station	Side	RRCW		
EAST MAIN STREET	85+66	L		1	DIVISION 1 - CITY
EAST MAIN STREET	87+85	L		1	DIVISION 1 - CITY
EAST MAIN STREET	87+85	R		1	DIVISION 1 - CITY
EAST MAIN STREET	89+59	R		1	DIVISION 1 - CITY
EAST MAIN STREET	89+61	L		1	DIVISION 1 - CITY
EAST MAIN STREET	89+93	R		1	DIVISION 1 - CITY
EAST MAIN STREET	89+97	L		1	DIVISION 1 - CITY
EAST MAIN STREET	91+31	L		1	DIVISION 1 - CITY
GROVE STREET	101+04	R		1	DIVISION 2 - DOT 3R
TOTAL				1	8

TEMPORARY TRAFFIC SIGNALS					
This Data Entry Sheet fills Tab 108-28 effective 8-1-08					
No.	Location Station	Type			Remarks
		One Lane Traffic	Haul Road	Intersection	
1	81+03.20	X			STAGE 1A
1	88+09.40	X			STAGE 1A
1	81+03.20	X			STAGE 1B
1	88+09.40	X			STAGE 1B

REMOVAL OF PAVEMENT											
Refer to Tabulation 102-5											
* Not a Bid Item											
This Data Entry Sheet fills Tab 110-1 effective 04-16-13											
Road ID	Begin Station	End Station	Side	Pavement Type	Length FT	Width FT	Area FT	Area SY	Saw Cut* LF	Remarks	
WALNUT STREET											
SOUTH WALNUT STREET	66+26.5	66+47.9	R	PCC	42.0	2.5	110.3	12.3	5.0	DIVISION 2 - DOT 3R - CURB & GUTTER	
MAIN STREET											
WEST MAIN STREET	70+36.1	70+51.1	R	PCC	15.0	7.3	118.0	13.1	28.2	DIVISION 2 - DOT 3R	
WEST MAIN STREET	77+28.1	77+90.0	R	HMA	61.9	20.0	801.4	89.0	90.2	DIVISION 2 - DOT 3R	
EAST MAIN STREET	83+64.0	83+80.4	BOTH	PCC	16.4	23.6	381.1	42.3	23.6	DIVISION 2 - DOT 3R	
EAST MAIN STREET	83+64.0	84+06.2	BOTH	HMA	42.2	42.5	1404.9	156.1	17.2	DIVISION 2 - DOT 3R	
EAST MAIN STREET	84+06.2	96+42.9	BOTH	HMA	1236.7	31.0	39626.3	4402.9	-	DIVISION 2 - DOT 3R - CENTER 31- FEET BRIDGE TO 4TH STREET	
EAST MAIN STREET	84+06.2	95+61.3	L	HMA	1155.0	11.0	10909.6	1212.2	-	DIVISION 1 - CITY	
EAST MAIN STREET	84+06.2	95+33.7	R	HMA	1127.5	12.0	11189.0	1243.2	-	DIVISION 1 - CITY	
EAST MAIN STREET	85+44.3	86+23.7	L	HMA	79.4	54.6	2630.6	292.3	39.1	DIVISION 1 - CITY	
EAST MAIN STREET	85+93.5	86+14.1	L	PCC	20.6	33.6	513.8	57.1	20.5	DIVISION 1 - CITY	
EAST MAIN STREET	85+43.8	86+24.4	R	HMA	80.6	35.8	714.5	79.4	14.2	DIVISION 1 - CITY	
EAST MAIN STREET	85+64.0	85+88.5	R	PCC	24.4	33.4	818.5	90.9	24.5	DIVISION 1 - CITY	
EAST MAIN STREET	89+42.0	90+16.0	L	HMA	73.9	59.0	1343.7	149.3	16.8	DIVISION 1 - CITY	
EAST MAIN STREET	89+52.1	89+90.6	L	PCC	38.5	49.1	1906.6	211.8	38.5	DIVISION 1 - CITY	
EAST MAIN STREET	89+39.5	90+13.5	R	HMA	74.0	69.2	2515.9	279.5	32.5	DIVISION 1 - CITY	
EAST MAIN STREET	89+65.8	89+87.6	R	PCC	21.8	60.6	1301.9	144.7	21.7	DIVISION 1 - CITY	
EAST MAIN STREET	93+56.9	93+88.5	L	HMA	31.5	51.8	370.8	41.2	2.8	DIVISION 1 - CITY	
EAST MAIN STREET	93+62.9	93+82.8	L	PCC	19.9	43.1	911.3	101.3	19.8	DIVISION 1 - CITY	
EAST MAIN STREET	93+57.6	93+90.7	R	HMA	33.1	45.1	1036.6	115.2	20.9	DIVISION 1 - CITY	
EAST MAIN STREET	96+42.9	96+55.0	BOTH	HMA	12.1	20.1	242.9	27.0	-	DIVISION 1 - CITY	
EAST MAIN STREET	96+55.0	96+65.6	BOTH	PCC	10.6	19.8	209.3	23.3	19.8	DIVISION 1 - CITY	
4TH STREET											
4th STREET	95+36.7	95+61.8	BOTH	HMA	25.1	36.1	830.7	92.3	36.1	DIVISION 1 - CITY	
4th STREET	96+21.4	97+10.5	R	PCC	89.1	55.3	1052.9	117.0	-	DIVISION 2 - DOT 3R	
4th STREET	96+26.3	100+39.5	BOTH	HMA	413.3	27.0	12815.2	1423.9	-	DIVISION 2 - DOT 3R	
4th STREET	98+99.7	99+89.6	L	PCC	89.9	60.1	985.7	109.5	-	DIVISION 2 - DOT 3R	
4th STREET	100+39.5	100+44.4	BOTH	HMA	4.9	29.2	137.2	15.2	-	DIVISION 1 - CITY	
4th STREET	100+44.4	100+76.0	R	HMA	31.6	7.0	137.9	15.3	-	DIVISION 1 - CITY	
4th STREET	100+44.4	100+77.6	BOTH	PCC	33.2	19.7	649.8	72.2	19.7	DIVISION 1 - CITY	
GROVE STREET											
GROVE STREET	99+13.3	99+49.0	BOTH	PCC	35.7	19.8	709.4	78.8	19.8	DIVISION 1 - CITY	
GROVE STREET	99+49.0	99+61.4	BOTH	HMA	12.5	32.3	539.0	59.9	1.8	DIVISION 1 - CITY	
GROVE STREET	100+17.4	103+51.5	BOTH	HMA	334.1	34.5	10809.0	1201.0	-	DIVISION 2 - DOT 3R	

REMOVAL OF CONCRETE AND HMA DRIVES AND PARKING AREAS										
* Not a Bid Item										
This Data Entry Sheet fills Tab 110-08 MODIFIED effective 04-17-18										
Location	Length	Width	Driveway Surface Area				Saw Cut*	Remarks		
			HMA Area	HMA Area	PCC Area	PCC Area				
Station	Side	FT	FT	SF	SY	SF	SY	LF		
EAST MAIN STREET										
85+56.1	R	16.0	16.0			253.9	28.2	16.0	DIVISION 1 - CITY - DON'S TRUCKS	
86+15.2	R	21.4	14.8	313.0	34.8			21.4	DIVISION 1 - CITY - DON'S TRUCKS	
93+90.9	L	15.7	15.3			238.8	26.5	15.7	DIVISION 1 - CITY - 3RD STREET NORTH	
93+92.9	L	12.9	27.5	346.2	38.5				DIVISION 1 - CITY - 3RD STREET NORTH	
93+93.2	R	23.9	36.8	868.4	96.5			60.7	DIVISION 1 - CITY - 3RD STREET SOUTH	
95+53.6	R	34.4	20.0	605.4	67.3			49.3	DIVISION 1 - CITY - FOOD CENTER	
96+62.7	L	33.2	10.2			326.4	36.3	43.4	DIVISION 1 - CITY - STRIP MALL PARKING LOT	
4TH STREET										
97+23.4	R	365.0	20.0	4614	512.7			284.5	DIVISION 1 - CITY - R&W HOLDINGS	
98+13.6	L	60.0	16.3			708	78.7	35.6	DIVISION 1 - CITY - CASEY'S DRIVE	
98+92.2	R	130.0	26.0	2549	283.2				DIVISION 1 - CITY - R&W HOLDINGS	
99+68.7	R	22.2	54.9	1058	117.6				DIVISION 1 - CITY - R&W HOLDINGS	
GROVE STREET										
100+99.2	L	54.4	20.0			824	91.5	46.1	DIVISION 1 - CITY - CASEY'S DRIVE	

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

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OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

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SET TYPE: BID LETTING

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JOB NUMBER:
22-1100

SHEET NUMBER:
C.13

SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL

* Not a bid item

This Data Entry Sheet fills Tab 110-14 effective 04-16-13

Location/Description	Sanitary or Storm Sewer	Abandonment, Plug Only or Abandonment, Plug and Fill or Removal	Length of Pipe		Fill Material* Flowable Mortar or CLSM (CY)	Remarks
			≤ 36 inch diameter (LF)	> 36 inch diameter (LF)		
WEST MAIN STREET						
70+45.7	17.6' R	STORM	REMOVAL	61		
71+47.2	26.7' R	STORM	REMOVAL	25		
74+00.9	23.5' R	STORM	REMOVAL	48		
77+35.3	23.9' R	STORM	REMOVAL	160		
78+95.9	21.1' R	STORM	REMOVAL	104		
79+43.7	27.2' L	STORM	REMOVAL	12		CUT EXISTING PIPE NEAR 48" RCP AND PLUG THE PIPE
79+97.9	18.8' R	STORM	REMOVAL	50		
80+46.4	19.8' R	STORM	ABANDONMENT, PLUG AND FILL	125	11.2	ESTIMATED SIZE 21-INCH VCP
EAST MAIN STREET						
84+59.7	22.8' L	STORM	REMOVAL	45		
84+60.9	24.2' R	STORM	REMOVAL	2		
84+56.2	22.1' R	STORM	REMOVAL	36		
86+13.3	20.0' R	STORM	REMOVAL	40		
86+23.9	23.8' L	STORM	REMOVAL	44		
86+24.9	24.4' R	STORM	REMOVAL	5		
87+96.6	19.3' R	STORM	REMOVAL	40		
88+01.6	23.5' L	STORM	REMOVAL	16		
88+01.6	7.7' L	STORM	ABANDONMENT, PLUG AND FILL	20	1.0	15" RCP
88+01.6	12.3' R	STORM	REMOVAL	7		
88+01.6	25.4' R	STORM	REMOVAL	6		
89+48.6	18.9' R	STORM	REMOVAL	106		
89+56.0	40.2' R	STORM	REMOVAL	20		
89+57.1	35.3' L	STORM	REMOVAL	52		
89+58.4	17.3' R	STORM	ABANDONMENT, PLUG AND FILL	30	2.0	18" RCP
89+58.5	20.3' R	STORM	ABANDONMENT, PLUG AND FILL	42	2.8	18" RCP
89+75.4	5.1' L	STORM	REMOVAL	40		
89+84.3	53.4' R	STORM	REMOVAL	27		
90+17.6	23.5' R	STORM	REMOVAL	5		
90+17.7	24.4' L	STORM	REMOVAL	44		
92+12.2	17.9' R	STORM	REMOVAL	60		
93+55.7	15.6' R	STORM	ABANDONMENT, PLUG AND FILL	24	1.1	15" RCP
93+55.8	19.4' R	STORM	REMOVAL	16		
93+56.1	6.5' L	STORM	REMOVAL	33		
93+56.7	16.0' R	STORM	ABANDONMENT, PLUG AND FILL	30	1.4	15" RCP
93+57.1	16.3' R	STORM	ABANDONMENT, PLUG AND FILL	40	1.8	15" RCP
93+57.2	18.4' R	STORM	REMOVAL	41		
93+57.5	17.5' R	STORM	REMOVAL	267		
93+57.5	17.9' R	STORM	REMOVAL	41		
93+72.5	7.3' L	STORM	REMOVAL	39		
93+86.0	8.5' L	STORM	REMOVAL	17		
93+90.9	37.3' R	STORM	ABANDONMENT, PLUG AND FILL	25	0.2	6" HDPE, CONTACTOR CAN REMOVE IF EASIER
93+91.9	35.3' R	STORM	REMOVAL	15		
4TH STREET						
95+94.2	23.8' R	STORM	REMOVAL	30		
96+20.3	22.4' L	STORM	ABANDONMENT, PLUG AND FILL	50	2.3	15" RCP
96+22.4	23.8' R	STORM	ABANDONMENT, PLUG AND FILL	28	1.3	15" RCP
96+22.7	24.3' L	STORM	REMOVAL	11		
96+23.6	21.3' L	STORM	ABANDONMENT, PLUG AND FILL	64	2.9	15" RCP
96+23.9	23.1' L	STORM	REMOVAL	27		
96+24.0	22.4' L	STORM	REMOVAL	359		
96+73.0	16.3' R	STORM	REMOVAL	9		
98+39.4	24.0' L	STORM	REMOVAL	52		
GROVE STREET						
100+26.6	15.9' L	STORM	REMOVAL	35		
100+28.4	17.8' L	STORM	ABANDONMENT, PLUG AND FILL	100	4.5	15" RCP NEAR CASEY'S DRIVE, CONFIRM PIPE IS ABANDON BEFORE PLUGGING
100+27.7	21.0' R	STORM	REMOVAL	23		

REMOVAL OF INTAKES AND UTILITY ACCESSES

This Data Entry Sheet fills Tab 110-15 effective 4-16-13

No.	Location/Description	Type	Remarks
MAIN STREET			
	70+44.5	17.5' R SW-512	DIVISION 1 - CITY
	78+94.6	21.4' R SW-512	DIVISION 1 - CITY
	79+43.2	26.4' L SW-512	DIVISION 1 - CITY
	79+96.6	18.8' R SW-512	DIVISION 1 - CITY
	84+59.7	23.8' L SW-511	DIVISION 1 - CITY
	84+60.9	25.2' R SW-511	DIVISION 1 - CITY
	86+23.9	24.8' L SW-511	DIVISION 1 - CITY
	86+25.2	25.4' R SW-511	DIVISION 1 - CITY
	88+01.5	24.5' L SW-511	DIVISION 1 - CITY
	88+01.6	26.4' R SW-511	DIVISION 1 - CITY
	89+55.9	41.4' R SW-512	DIVISION 1 - CITY
	89+57.1	36.3' L SW-511	DIVISION 1 - CITY
	89+57.3	18.8' R SW-401	DIVISION 1 - CITY
	90+00.5	38.1' L SW-512	DIVISION 1 - CITY
	90+01.4	75.4' R SW-512	DIVISION 1 - CITY
	90+17.5	24.5' R SW-511	DIVISION 1 - CITY
	90+17.7	25.4' L SW-511	DIVISION 1 - CITY
	93+55.6	17.5' R SW-401	DIVISION 1 - CITY
	93+56.9	41.1' L SW-512	DIVISION 1 - CITY
	93+57.0	36.6' R SW-512	DIVISION 1 - CITY
	93+91.9	36.5' R SW-512	DIVISION 1 - CITY
	93+95.3	40.9' L SW-512	DIVISION 1 - CITY
	93+99.9	21.1' R SW-511	DIVISION 1 - CITY
	94+00.6	21.7' L SW-511	DIVISION 1 - CITY
4TH STREET			
	95+62.9	23.9' R SW-512	DIVISION 1 - CITY
	95+67.0	19.4' L SW-512	DIVISION 1 - CITY
	95+82.6	34.2' L SW-512	DIVISION 1 - CITY
	96+22.1	22.5' L SW-401	DIVISION 1 - CITY
	96+26.7	36.5' L SW-512	DIVISION 1 - CITY
	96+40.1	19.6' L SW-512	DIVISION 1 - CITY
	96+81.5	22.8' R SW-512	DIVISION 1 - CITY
GROVE STREET			
	100+16.0	40.4' R SW-512	DIVISION 1 - CITY
	100+26.6	17.8' L SW-401	DIVISION 1 - CITY
	100+28.3	20.2' R SW-512	DIVISION 1 - CITY
	101+06.2	29.8' R SW-512	DIVISION 1 - CITY



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JOB NUMBER:
22-1100

SHEET NUMBER:
C.14

REMOVAL OF LIGHT POLES AND CONCRETE FOOTINGS						
This Data Entry Sheet fills Tab 110-16 effective 4-16-13						
No.	Station	Offset		Removal of Light Pole	Removal of Concrete Footing for Light Pole	Remarks
		Left	Right			
MAIN STREET						
1	81+81.5		22.2	1		
2	81+82.7	22.1		1		
3	83+26.2	22.5		1		
4	83+26.2		22.5	1		
5	84+15.6	26.4		1	1	
6	85+48.5	28.6		1	1	
7	87+21.8	28.2		1	1	
8	88+01.9		29.7	1	1	
9	89+42.5	27.4		1	1	
10	90+12.8		27.7	1	1	
11	91+80.3	25.6		1	1	
12	93+38.7		24.1	1	1	
13	93+99.6	24.4		1	1	
14	94+68.5		23.6	1	1	
15	95+67.1	24.8		1	1	
16	96+35.5		36.7	1	1	
4TH STREET						
17	97+00.5		26.7	1	1	
18	98+07.8		25.5	1	1	
19	99+75.6		27.4	1	1	

CURBS AND RAISED ISLANDS						
Refer to PV-20, PV-102, 6000s Detail Series.						
Bid Item						
This Data Entry Sheet fills Tab 112-4 effective 10-21-14						
Point No.	Station	Offset	Island Interior Area SY	Curb and Gutter		Remarks
				Curb Type	Gutter Width FT	
1	66+29.0	50.3 R		6" Standard PCC	2.5	49.9 DIVISION 2 - ADA DROP CURB
2	85+54.1	69.2 L		6" Standard PCC	2.5	10.0 DIVISION 1 - 1ST STREET NORTH
3	85+68.8	50.1 R		6" Standard PCC	2.5	10.0 DIVISION 1 - 1ST STREET SOUTH
4	86+13.7	69.1 L		6" Standard PCC	2.5	10.0 DIVISION 1 - 1ST STREET NORTH
5	89+49.5	78.6 R		6" Standard PCC	2.5	15.0 DIVISION 1 - 2ND STREET SOUTH
6	89+52.1	68.7 L		6" Standard PCC	2.5	15.0 DIVISION 1 - 2ND STREET NORTH
7	90+03.5	78.6 R		6" Standard PCC	2.5	15.0 DIVISION 1 - 2ND STREET SOUTH
8	90+06.1	68.5 L		6" Standard PCC	2.5	15.0 DIVISION 1 - 2ND STREET NORTH
9	93+52.0	66.4 L		6" Standard PCC	2.5	15.0 DIVISION 1 - 3RD STREET NORTH
10	93+56.9	56.9 R		6" Standard PCC	2.5	5.0 DIVISION 1 - 3RD STREET SOUTH
11	93+86.0	66.3 L		6" Standard PCC	2.5	15.0 DIVISION 1 - 3RD STREET NORTH
12	93+87.9	59.6 R		6" Standard PCC	2.5	10.0 DIVISION 1 - 3RD STREET SOUTH
13	96+55.6	20.0 L		6" Standard PCC	2.5	10.0 DIVISION 1 - E. MAIN STREET
14	96+55.6	20.0 R		6" Standard PCC	2.5	10.0 DIVISION 1 - E. MAIN STREET

CLEARING AND GRUBBING																						
This Data Entry Sheet fills Tab 110-17 effective 4-18-17																						
Location		Work and Material Type	Trees, Stumps, and Logs and Down Timber Material Diameters													All Other Materials			Estimated Quantities			Remarks
Station to Station or Ref. Loc. Sign to Ref. Loc. Sign or Description	Direction of Travel		3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"	Calculated Units	Length FT	Width FT	Calculated Units	Units Units	Area Acres	
81+32.7 - 81+94.4	EB	BRUSH - CLEARING														50.0	35.0	14.0		0.04		TREES 6 IN. IN DIAMETER OR LESS
82+78.3 - 83+42.5	EB	BRUSH - CLEARING														65.0	40.0	20.8		0.06		TREES 6 IN. IN DIAMETER OR LESS

RAILROAD APPROACH SECTIONS				
This Data Entry Sheet fills Tab 112-3 effective 4-16-13				
Crossing		Pavement Type		Remarks
Location Station	Angle	HMA SY	PCC SY	
103+60.85	32.4'		124.3	SEE ESTIMATED REFERENCE NOTES AND D AND L SHEETS FOR FURTHER DETAIL



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SHEET NUMBER:
C.15

SHOULDERS

① Lane(s) to which the shoulder is adjacent.
 ② Bid Item.
 ③ Applies only for Paved Shoulders constructed on project with existing granular shoulders.

Calculations assume a HMA unit weight (lbs/cf) of 147, Modified Subbase unit weight (lbs/cf) of 145

This Data Entry Sheet fills Tab 112-9 MODIFIED effective 10-20-20

Road Identification	Direction of Traffic	Location			Start FT	End FT	Width FT	Length FT	Quantities					Remarks
		Station to Station	Side	Class 13 Excavation CY ②					HMA Cross Section Area SF	Hot Mix Asphalt		Binder TONS	Paved Shoulder SY ②	
										TON	TON/STA			
WEST MAIN STREET	WB	69+90.2	73+69.1	L	2.0	2.0	2.0	378.9	28.1	18.4	4.9	1.1	84.2	FOR 4" BASE, 2" SURFACE LIFT PAID UNDER HMA SURFACE COURSE ITEM
WEST MAIN STREET	EB	70+47.8	77+29.1	R	2.0	2.0	2.0	681.3	50.5	33.1	4.9	2.0	151.4	FOR 4" BASE, 2" SURFACE LIFT PAID UNDER HMA SURFACE COURSE ITEM
WEST MAIN STREET	WB	73+84.0	74+07.0	L	2.0	2.0	2.0	23.0	1.7	1.1	4.9	0.1	5.1	FOR 4" BASE, 2" SURFACE LIFT PAID UNDER HMA SURFACE COURSE ITEM
WEST MAIN STREET	WB	74+65.5	78+87.0	L	2.0	2.0	2.0	421.5	31.2	20.5	4.9	1.2	93.7	FOR 4" BASE, 2" SURFACE LIFT PAID UNDER HMA SURFACE COURSE ITEM
WEST MAIN STREET	EB	77+89.5	81+45.0	R	2.0	2.0	2.0	355.5	26.3	17.4	4.9	1.0	79.0	FOR 4" BASE, 2" SURFACE LIFT PAID UNDER HMA SURFACE COURSE ITEM
WEST MAIN STREET	WB	79+48.8	81+45.2	L	2.0	2.0	2.0	196.4	14.6	9.6	4.9	0.6	43.6	FOR 4" BASE, 2" SURFACE LIFT PAID UNDER HMA SURFACE COURSE ITEM
TOTALS:									152.4	100.100	6.0	457.0		

**UTILITIES
(NOT A POINT 25 PROJECT)**

This Data Entry Sheet fills Tab 262-5 effective 10-18-15
 THIS IS NOT A POINT 25 PROJECT AND IS NOT SUBJECT TO THE PROVISIONS OF IAC 761-115.25.

EXISTING SIGNS TO BE REMOVED

This Data Entry Sheet fills Tab 190-62 effective 10-15-13

SIGN NUMBER OR DESCRIPTION	LOCATION STATION	DIRECTION OF TRAVEL	TYPE 'A' SIGN ASSEMBLY	TYPE 'B' SIGN ASSEMBLY	REMOVE & REINSTALL EXISTING SIGNS		CONCRETE FOUNDATION	SUPPORT STRUCTURE & FOUNDATION	APPLICABLE SIGNING NOTES	REMARKS
					TYPE 'A'	TYPE 'B'				
			EACH	EACH	EACH	EACH	EACH	EACH		
M3-2, M1-4	73+49	EB			1					EAST 281 - DIV 1
W14-3	74+00	EB			1					NO PASSING ZONE - DIV 1
R2-1	75+82	EB			1					SPEED LIMIT 25 - DIV 1
R2-1	96+98	SB			1					SPEED LIMIT 25 - DIV 1
W3-1	96+98	SB			1					STOP AHEAD - DIV 1
M3-2, M1-4, M6-1	98+07	SB			1					EAST 281 LEFT- DIV 1
R1-1, W4-4	99+75	SB			1					STOP CROSS TRAFFIC NO STOP - DIV 2
D3	99+76	SB			1					4TH ST S/GROVE ST - DIV 2
R8-3	101+39	WB			1					NO PARKING - DIV 2
M3-4	101+40	WB			1					WEST 281 RIGHT - DIV 2
R8-3	102+28	WB			1					NO PARKING - DIV 2
M3-4, M1-4, M6-1	102+28	WB			1					SPEED LIMIT 25 - DIV 2



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JOB NUMBER:
22-1100

SHEET NUMBER:
C.16

WATER MAIN, TRENCHED			
STATION	STATION	L.F.	REMARKS
EAST MAIN STREET			
83+83.8, 30.3' L	83+90.6, 26.0' L	8	8"
83+90.6, 26.0' L	96+02.5, 20.4' L	1218	10"
86+60.0, 12.0' L	86+60.0, 16.0' L	4	6"
86+56.0, 16.0' L	86+60.0, 16.0' L	4	6"
86+60.0, 16.0' L	86+64.0, 16.0' L	4	6"
89+88.5, 12.1' L	89+89.1, 81.1' L	69	6" - 2ND STREET NORTH
89+89.1, 76.1' L	89+93.1, 80.1' L	8	4" - 2ND STREET NORTH
89+88.5, 12.1' L	89+87.6, 90.8' R	103	6" - 2ND STREET SOUTH
89+87.6, 85.7' R	89+91.6, 89.9' R	8	4" - 2ND STREET SOUTH
4TH STREET			
95+91.2, 17.9' R	100+64.1, 19.5' R	473	10"
99+31.2, 19.5' R	99+34.2, 19.5' L	3	4"
99+34.2, 19.5' L	99+88.7, 19.5' L	55	6"
GROVE STREET			
99+81.3, 59.3' L	100+14.2, 59.7' L	33	4"
100+14.2, 59.7' L	100+14.2, 62.7' L	3	4"

FITTINGS, BY WEIGHT		
STATION	LBS	FITTING TYPE
EAST MAIN STREET		
83+87.7, 27.8' L	52	8" SOLID REPAIR SLEEVE
83+90.6, 25.9' L	54	10"X8" REDUCER
84+10.1, 15.5' L	17	6" CAP
84+12.0, 11.8' L	74	10" 45° BEND
86+54.0, 16.0' L	17	6" CAP
86+56.0, 16.0' L	17	6" CAP
86+56.0, 16.0' L	36	6" SOLID REPAIR SLEEVE
86+60.0, 12.0' L	93	10"X6" TEE
86+60.0, 13.7' L	17	6" CAP
86+60.0, 14.3' L	17	6" CAP
86+60.0, 16.0' L	60	6" TEE
86+64.1, 16.0' L	36	6" SOLID REPAIR SLEEVE
89+88.5, 12.1' L	110	10"X6" CROSS - 2ND STREET
89+89.1, 76.1' L	51	6"X4" TEE
89+89.1, 81.1' L	17	6" CAP
89+93.1, 76.0' L	26	4" 90° BEND
89+93.1, 80.1' L	25	4" SOLID REPAIR SLEEVE
89+87.6, 85.7' R	51	6"X4" TEE
89+87.6, 90.8' R	17	6" CAP
89+91.6, 85.8' R	26	4" 90° BEND
89+91.6, 89.9' R	25	4" SOLID REPAIR SLEEVE
95+67.8, 13.4' L	64	10" SOLID REPAIR SLEEVE
95+86.3, 13.4' L	120	10" TEE - MAIN & 4TH
95+91.2, 13.4' L	67	10" 22.5° BEND
95+91.1, 29.7' L	17	6" CAP
95+93.9, 32.0' L	17	6" CAP
96+00.9, 23.0' L	64	10" SOLID REPAIR SLEEVE
96+02.5, 20.4' L	120	10" TEE
96+49.7, 13.7' R	64	10" SOLID REPAIR SLEEVE
96+49.7, 16.2' R	17	6" CAP - FH TEE
4TH STREET		
98+02.0	93	10"X6" TEE
98+02.0	18	6" PLUG W/ 2" TAP
99+31.2, 19.5' R	25	4" SOLID REPAIR SLEEVE
99+34.2, 19.5' R	27	6"X4" REDUCER
99+88.7, 19.5' R	93	10"X6" TEE - 4TH & GROVE
99+88.7, 16.5' R	17	6" CAP
100+61.0, 19.5' R	83	10"X4" TEE
100+64.1, 19.5' R	35	10" CAP
GROVE STREET		
100+14.2, 59.7' R	26	4" 90° BEND
100+14.2, 62.7' R	25	4" SOLID REPAIR SLEEVE
100+14.3, 57.2' R	10	4" CAP

WATER SERVICE STUBS						
STATION	SIDE	3/4"	1"	2"	6"	REMARKS
EAST MAIN STREET						
85+31.3	L		14			COSTA'S SPORTS BAR AND GRILL
85+60.2	R		50			DON'S TRUCKS
86+36.8	L		14			FAIRBANK HISTORICAL SOCIETY
87+01.9	L		15			JULIE EVEN
87+03.3	R		38			BOYD'S BAR AND GRILL
87+28.5	R		38			BRONSON & AMANDA WIERCK
87+29.2	R		38			BRONSON & AMANDA WIERCK
87+30.3	L		15			BELLIS INSURANCE INC.
87+75.9	R		38			TIMELESS TRADITIONS
87+94.6	L		15			AMERICAN LEGION
88+07.7	R		99			CITY HALL - DIRECTION BORE
88+54.4	L		15			MAURICE & WILMA WELSH
88+77.7	L		15			JOE MILLER PLUMBING & HEATING INC.
89+32.7	L		14			VANDAELE INSURANCE, LLC.
89+87.7	R		40			NORTHEAST SECURITY BANK
90+29.6	L		12			POST OFFICE
90+67.7	R		39			CITY SHOP
90+73.4	L		14			CITY OF FAIRBANK
91+65.9	L		14			FLORAL IMAGES & GIFTS
91+69.3	R		64			DANIEL & KATIE TRIMBLE 210 EAST MAIN
92+23.2	L		14			BROCK ZARUBA 213 EAST MAIN
92+33.9	R		60			FAIRBANK PUBLIC LIBRARY
93+00.4	R		39			SCOTT & NANCY JANS 216 EAST MAIN
93+13.9	L		14			JEFFREY RYANT 217 EAST MAIN
93+37.5	L		23			JEFFREY RYANT 104 3RD STREET N
94+04.1	R		60			R&W HOLDING LLC.
94+53.5	L		13			FAIRBANK FLOORING
94+96.1	L		20			FAIRBANK FOOD CENTER
4TH STREET						
96+72.4	R		9			R&W HOLDING LLC.
98+02.0	L			51		CASEY'S (4TH ST ENTRANCE)/ALLEY
99+18.4	L		57			CASEY'S, 1" COUPLER INCIDENTAL TO WATER SERVICE
100+59.0	L		37			DEBRA YONKOVIC 402 GROVE

VALVES		
STATION	EACH	GATE VALVE SIZE
EAST MAIN STREET		
86+60.0, 14.0' L	1	6"
86+67.2, 12.0' L	1	10"
89+83.5, 12.1' L	1	10"
89+87.7, 81.7' R	1	6"
89+89.0, 73.1' L	1	6"
89+93.5, 12.1' L	1	10"
95+82.3, 13.4' L	1	10"
95+96.8, 16.9' L	1	10"
4TH STREET		
95+95.2, 18.0' R	1	10"
99+83.7, 19.5' R	1	10"
99+88.7, 24.5' R	1	6"
99+93.7, 19.5' R	1	10"
GROVE STREET		
100+09.2, 59.6' L	1	4"

FIRE HYDRANT ASSEMBLY		
STATION	EACH	REMARKS
EAST MAIN STREET		
86+11.6, 38.9' L	1	1ST STREET
90+03.0, 44.5' L	1	2ND STREET
93+49.5, 38.0' L	1	3RD STREET
95+75.0, 40.1' L	1	4TH STREET
4TH STREET		
100+45.2, 23.7' R	1	GROVE STREET

REMOVE FIRE HYDRANT ASSEMBLY		
STATION	EACH	REMARKS
EAST MAIN STREET		
86+14.5, 26.0' L	1	1ST STREET NORTH
90+05.1, 26.5' L	1	2ND STREET NORTH
90+64.0, 53.8' L	1	OLD TOWN JAIL PARK
96+49.7, 22.4' R	1	4TH STREET
GROVE STREET		
100+20.3, 29.5' R	1	4TH STREET



ILLINOIS
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OWNER/DEVELOPER:
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116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

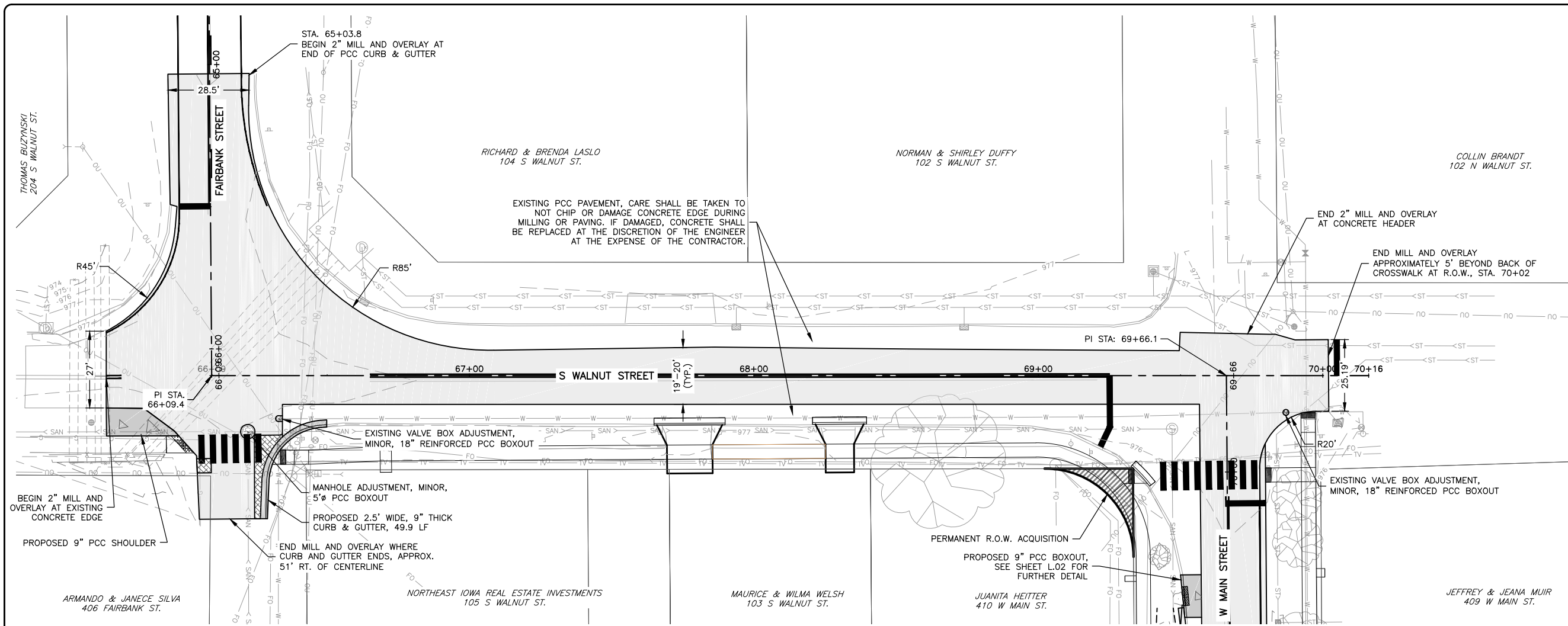
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REV. NO.	DESCRIPTION	DATE

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JOB NUMBER:
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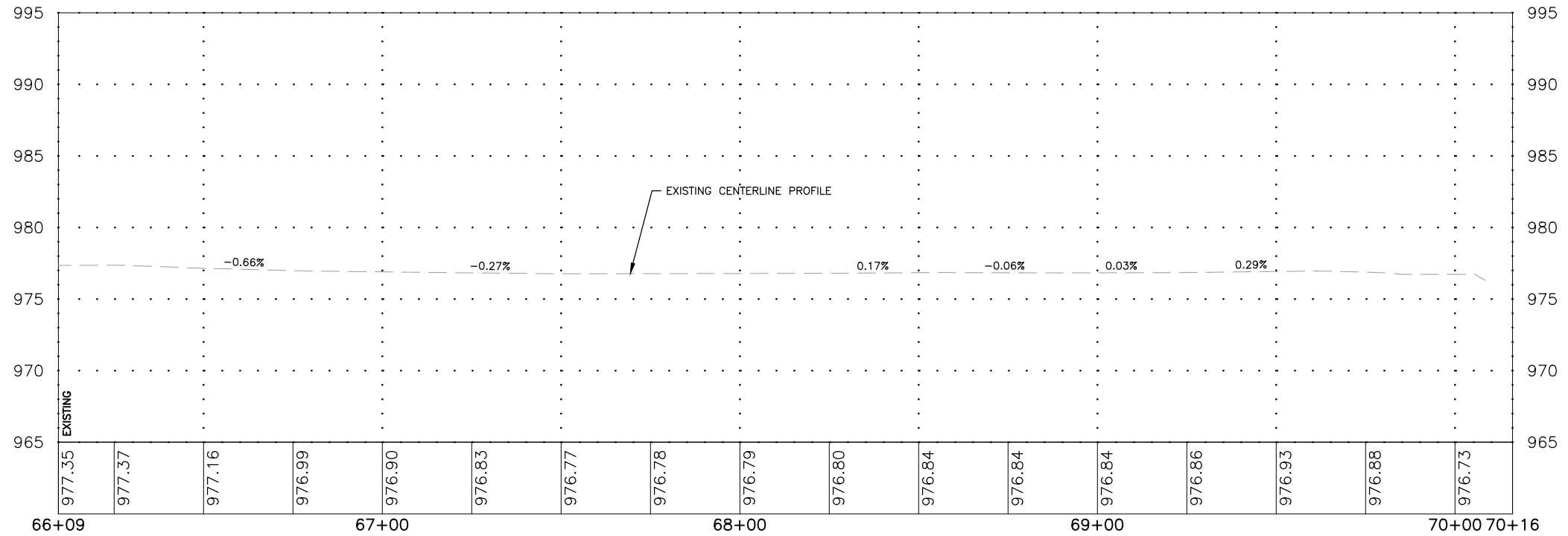
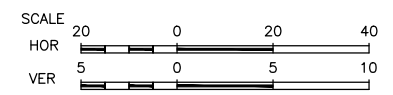
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NOTE:

- REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND DRIVEWAY DETAIL.
- PROFILE MILL FROM CENTERLINE OUT TO ACHIEVE 2% CROWN.

- LEGEND**
- 9" PCC PAVEMENT
 - 7" PCC PAVEMENT
 - 2" HMA PAVEMENT
 - 8" PCC DRIVEWAY
 - FULL DEPTH PATCH



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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
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SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

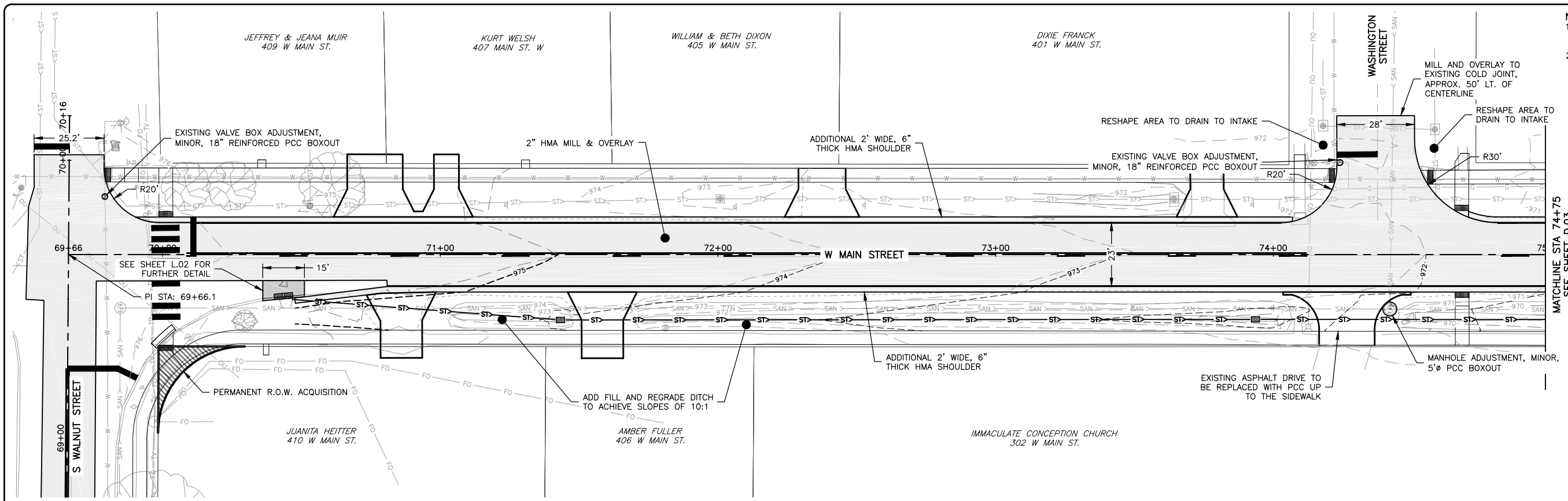
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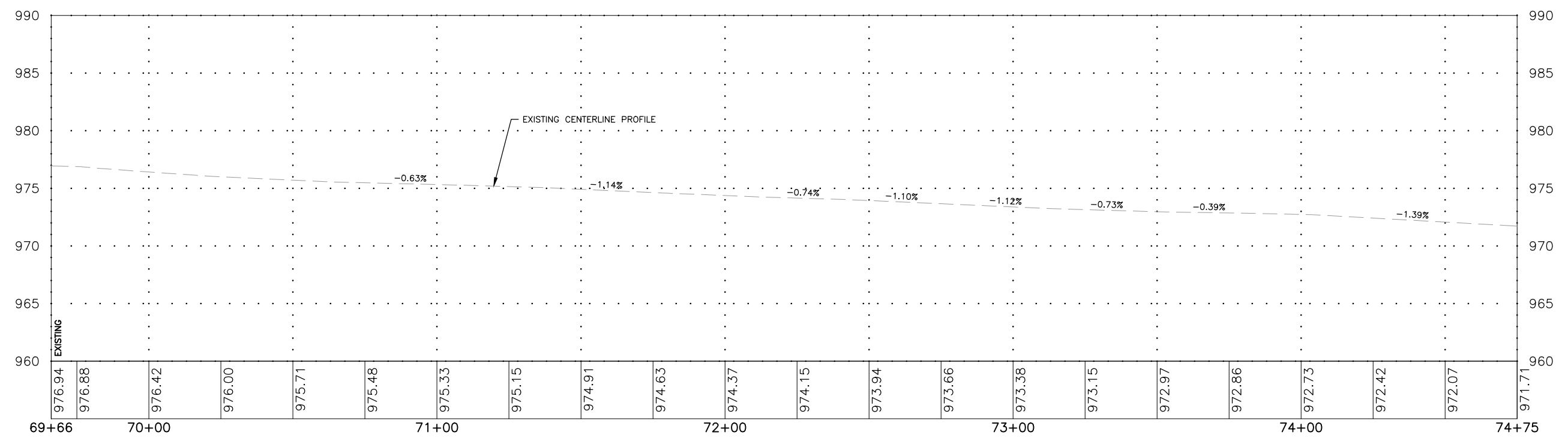
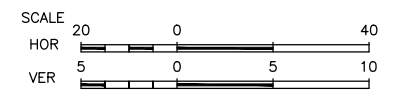
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D.01



NOTE:
 1. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND DRIVEWAY DETAIL.
 2. PROFILE MILL FROM CENTERLINE OUT TO ACHIEVE 2% CROWN.

LEGEND

	9" PCC PAVEMENT
	7" PCC PAVEMENT
	2" HMA PAVEMENT
	8" PCC DRIVEWAY



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 FAIRBANK, IA 50629

PROJECT AND LOCATION:
 MAIN STREET IMPROVEMENTS
 FAIRBANK, IOWA
 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
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 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

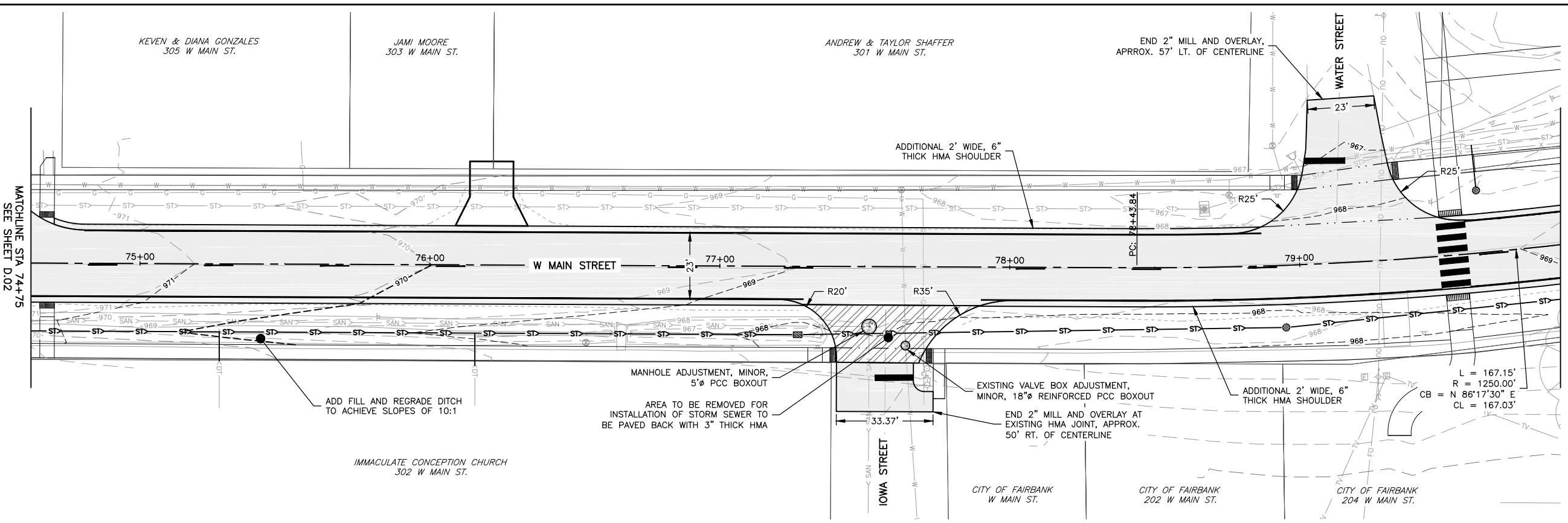
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SET TYPE: BID LETTING

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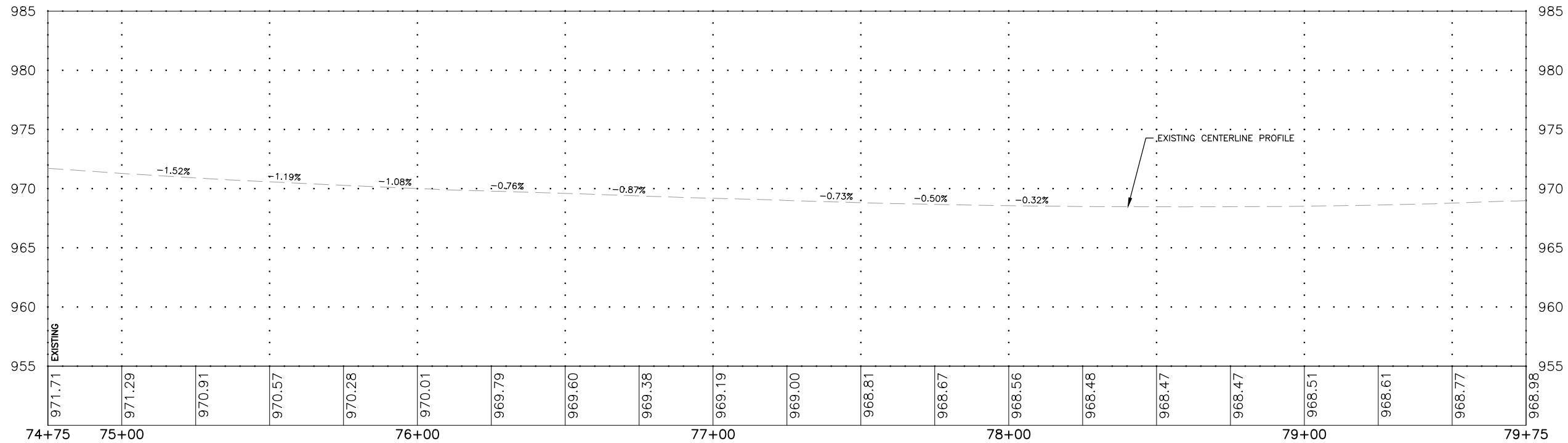
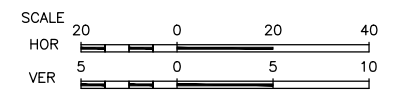
JOB NUMBER:
 22-1100

SHEET NUMBER:
 D.02



NOTE:
 1. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND DRIVEWAY DETAIL.
 2. PROFILE MILL FROM CENTERLINE OUT TO ACHIEVE 2% CROWN.

- LEGEND**
- 9" PCC PAVEMENT
 - 7" PCC PAVEMENT
 - 2" HMA PAVEMENT
 - 8" PCC DRIVEWAY
 - 3" HMA STREET



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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY:
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DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PLAN & PROFILE - WEST MAIN STREET

SET TYPE: BID LETTING





G:\C\30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, D.03 - WMAIN (2)

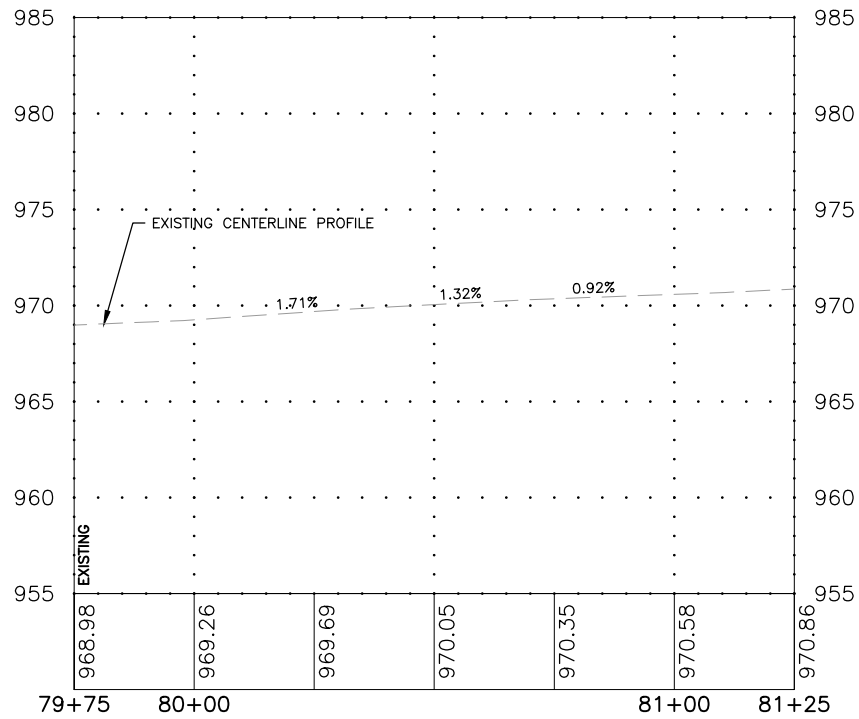
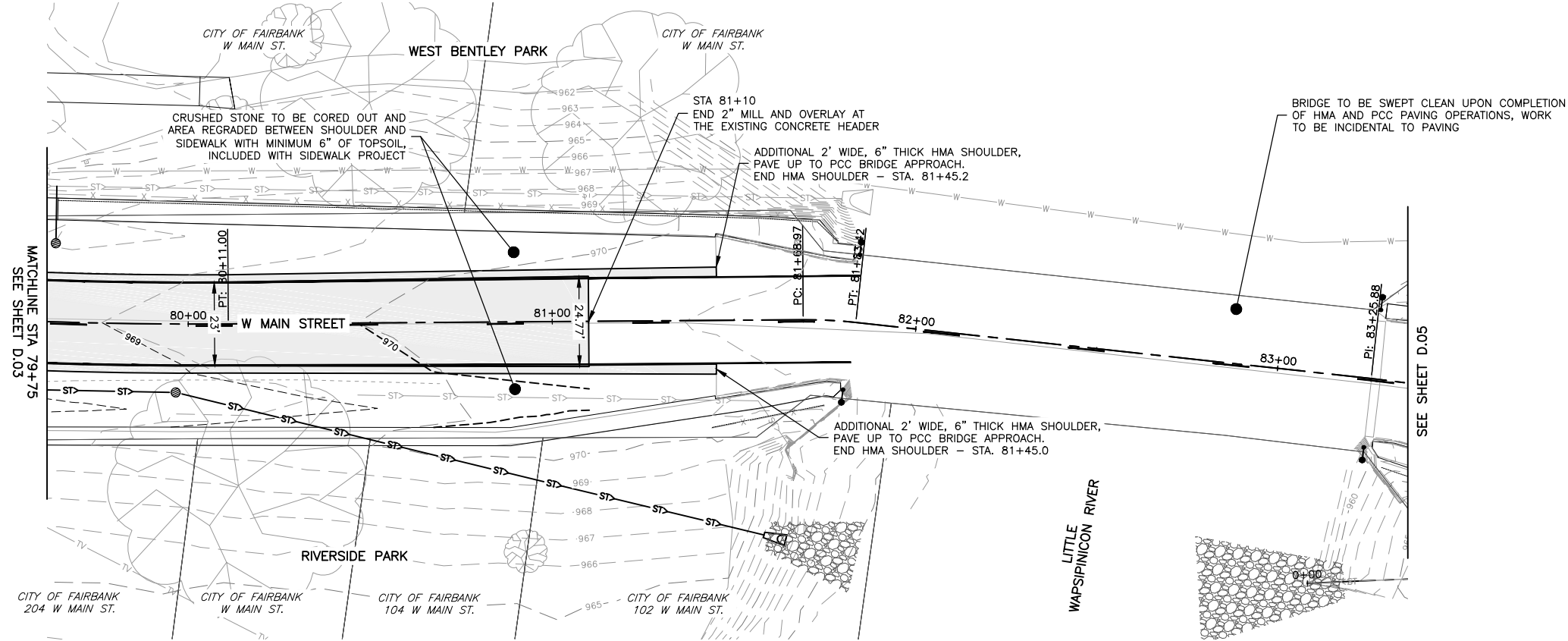
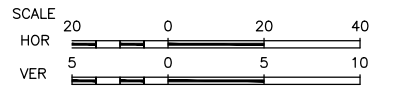
JOB NUMBER:
22-1100

SHEET NUMBER:
D.03

- NOTE:**
- REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND DRIVEWAY DETAIL.
 - PROFILE MILL FROM CENTERLINE OUT TO ACHIEVE 2% CROWN.

LEGEND

-  9" PCC PAVEMENT
-  7" PCC PAVEMENT
-  2" HMA PAVEMENT
-  8" PCC DRIVEWAY



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FAIRBANK, IA 50629

PROJECT AND LOCATION:
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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

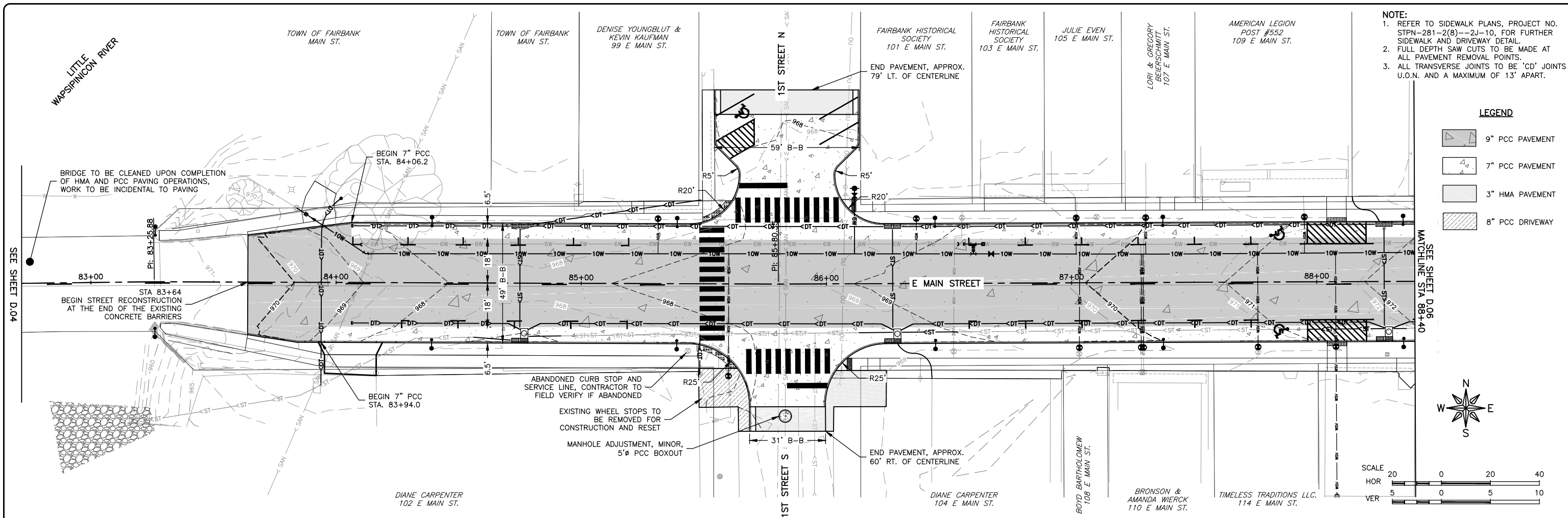
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SET TYPE: BID LETTING

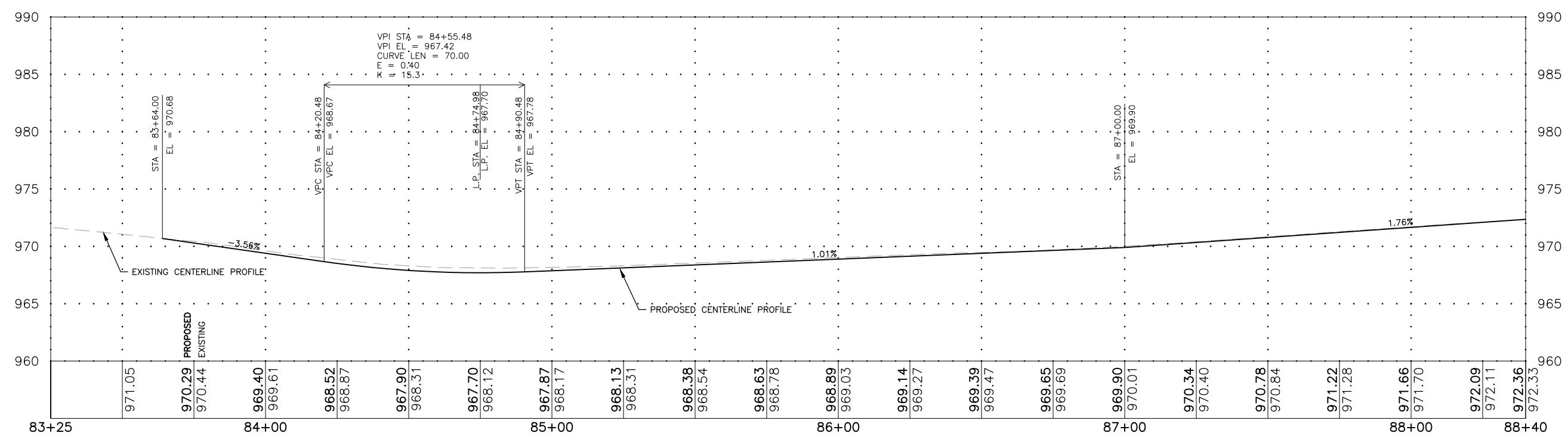
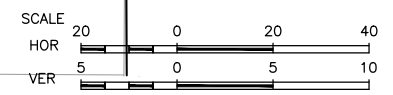
JOB NUMBER:
22-1100

SHEET NUMBER:
D.04



- NOTE:**
1. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND DRIVEWAY DETAIL.
 2. FULL DEPTH SAW CUTS TO BE MADE AT ALL PAVEMENT REMOVAL POINTS.
 3. ALL TRANSVERSE JOINTS TO BE 'CD' JOINTS U.O.N. AND A MAXIMUM OF 13' APART.

- LEGEND**
- 9" PCC PAVEMENT
 - 7" PCC PAVEMENT
 - 3" HMA PAVEMENT
 - 8" PCC DRIVEWAY



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FAIRBANK, IA 50629

PROJECT AND LOCATION:
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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

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SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PLAN & PROFILE - EAST MAIN STREET

SET TYPE: BID LETTING





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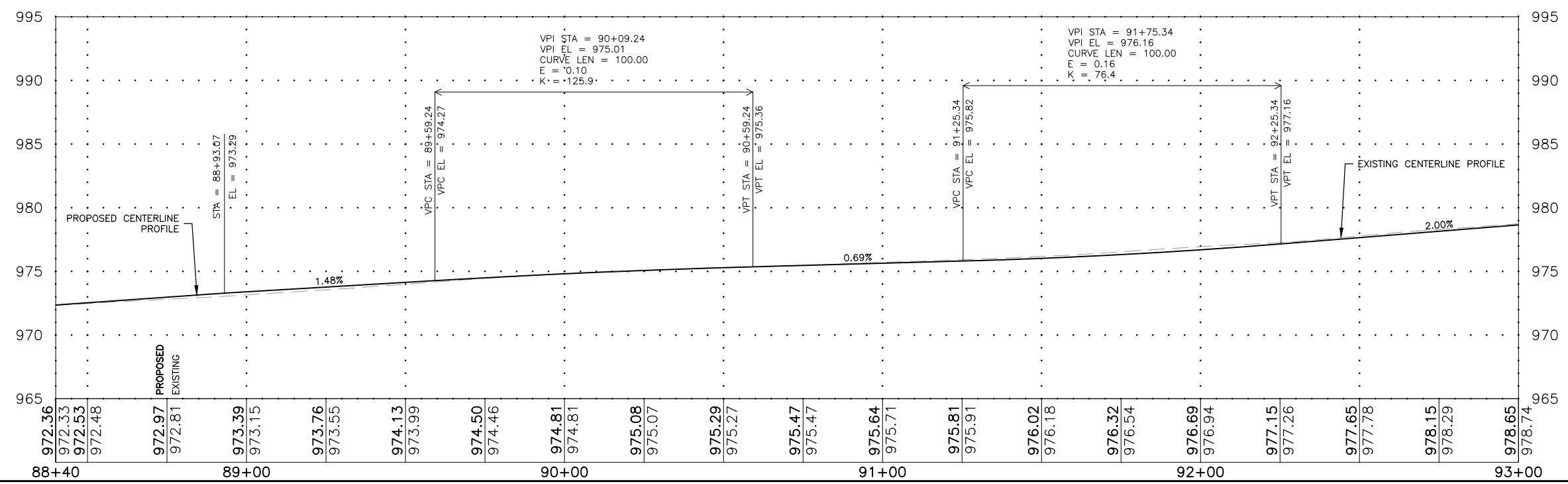
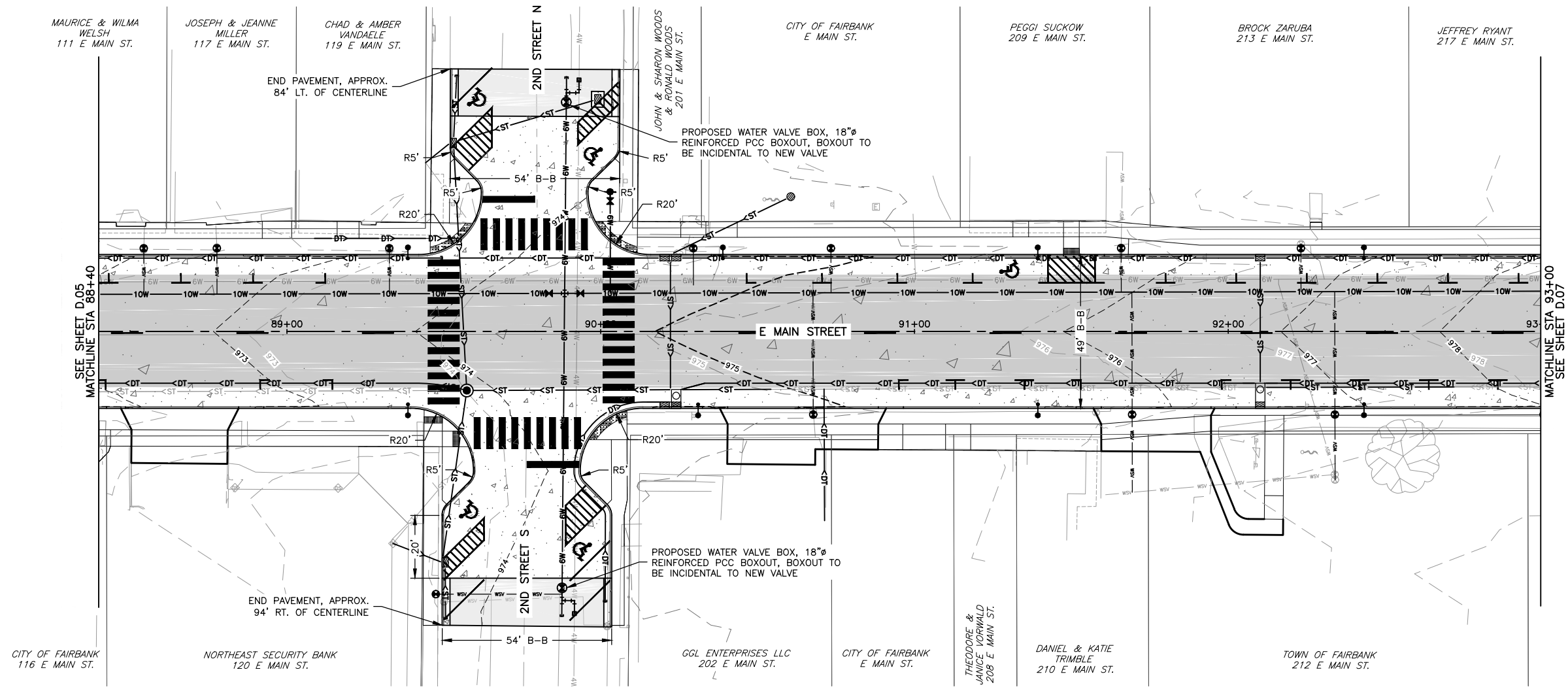
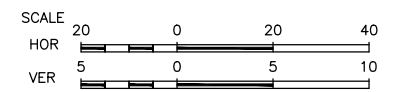
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22-1100

SHEET NUMBER:
D.05

- NOTE:**
1. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND DRIVEWAY DETAIL.
 2. FULL DEPTH SAW CUTS TO BE MADE AT ALL PAVEMENT REMOVAL POINTS.
 3. ALL TRANSVERSE JOINTS TO BE 'CD' JOINTS U.O.N. AND A MAXIMUM OF 15' APART.

LEGEND

-  9" PCC PAVEMENT
-  7" PCC PAVEMENT
-  3" HMA PAVEMENT
-  8" PCC DRIVEWAY



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116 EAST MAIN STREET
FAIRBANK, IA 50629

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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

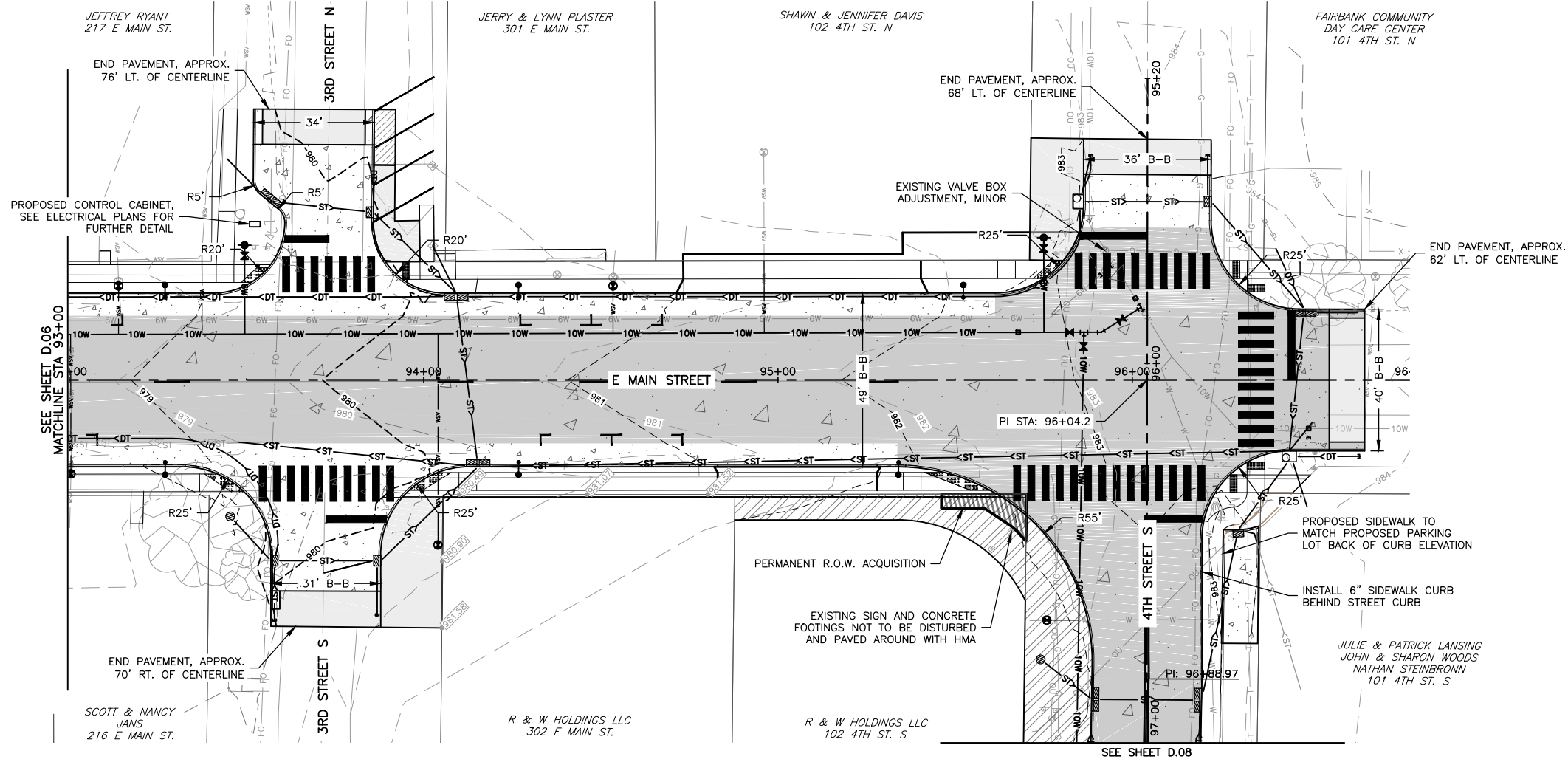
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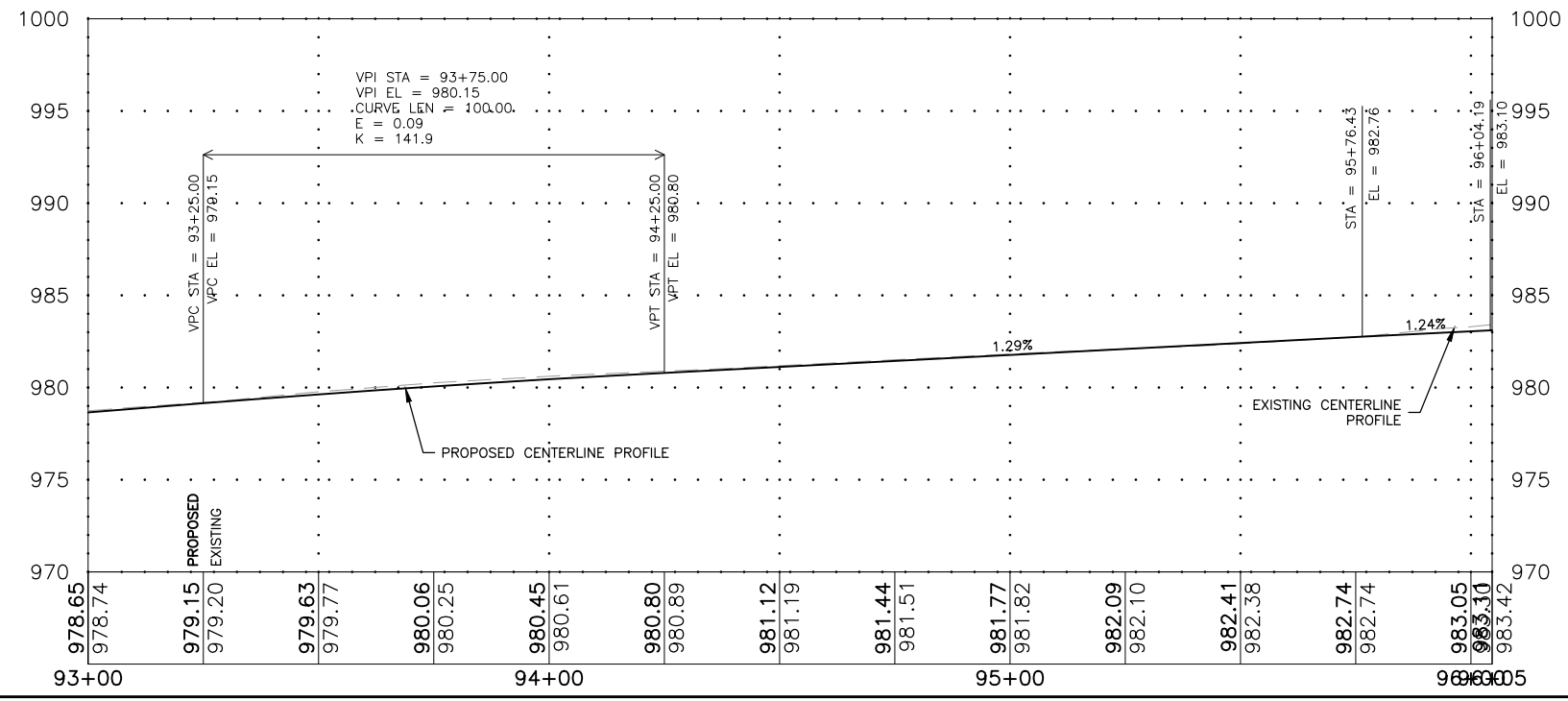
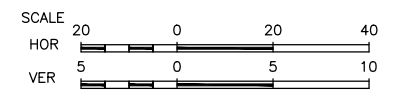
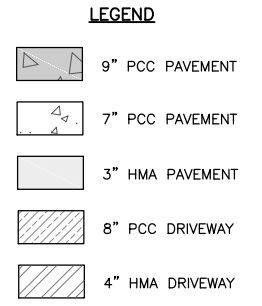
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JOB NUMBER:
22-1100

SHEET NUMBER:
D.06



- NOTE:**
1. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND DRIVEWAY DETAIL.
 2. FULL DEPTH SAW CUTS TO BE MADE AT ALL PAVEMENT REMOVAL POINTS.
 3. ALL TRANSVERSE JOINTS TO BE 'CD' JOINTS U.O.N. AND A MAXIMUM OF 15' APART.



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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

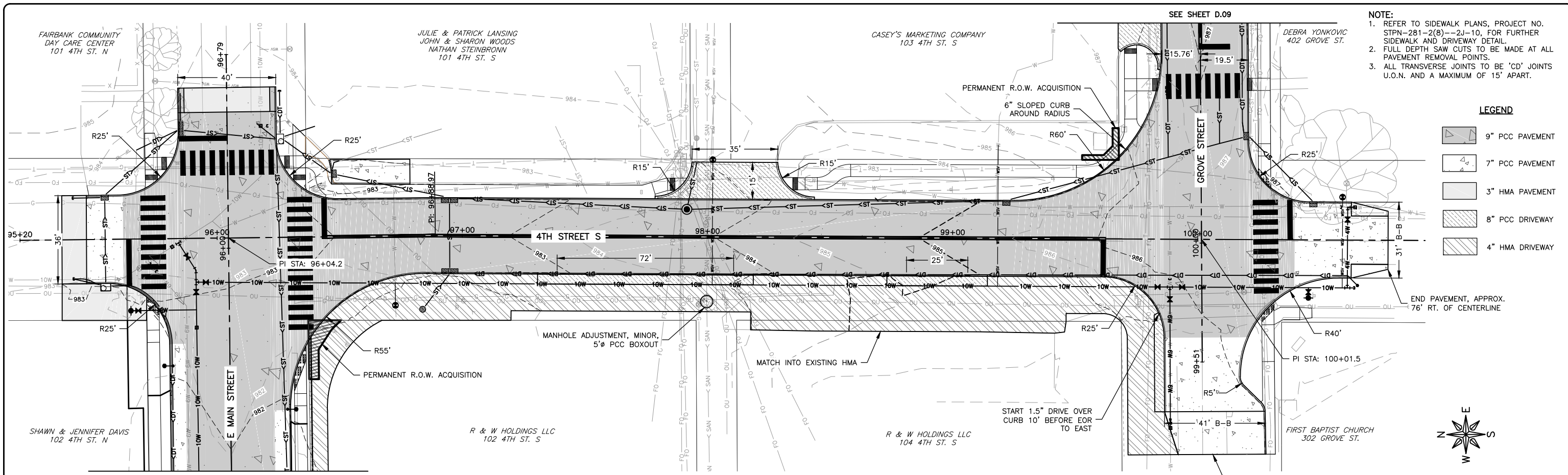
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SET TYPE: **BID LETTING**

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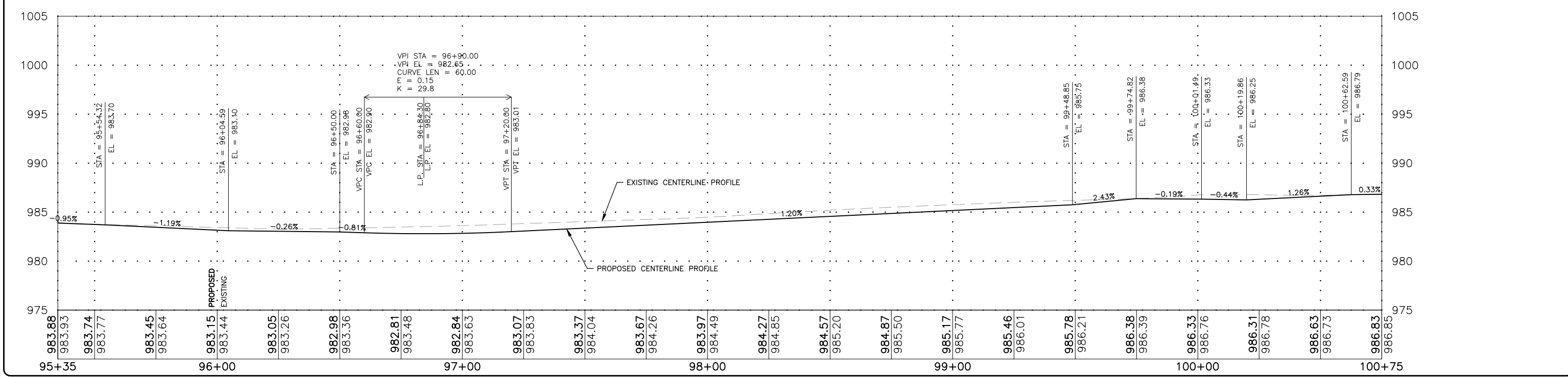
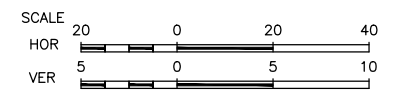
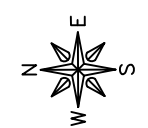
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22-1100

SHEET NUMBER:
D.07



- NOTE:**
1. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND DRIVEWAY DETAIL.
 2. FULL DEPTH SAW CUTS TO BE MADE AT ALL PAVEMENT REMOVAL POINTS.
 3. ALL TRANSVERSE JOINTS TO BE 'CD' JOINTS U.O.N. AND A MAXIMUM OF 15' APART.

- LEGEND**
- 9" PCC PAVEMENT
 - 7" PCC PAVEMENT
 - 3" HMA PAVEMENT
 - 8" PCC DRIVEWAY
 - 4" HMA DRIVEWAY



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ILLINOIS
IOWA
WISCONSIN

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116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PLAN & PROFILE - 4TH STREET






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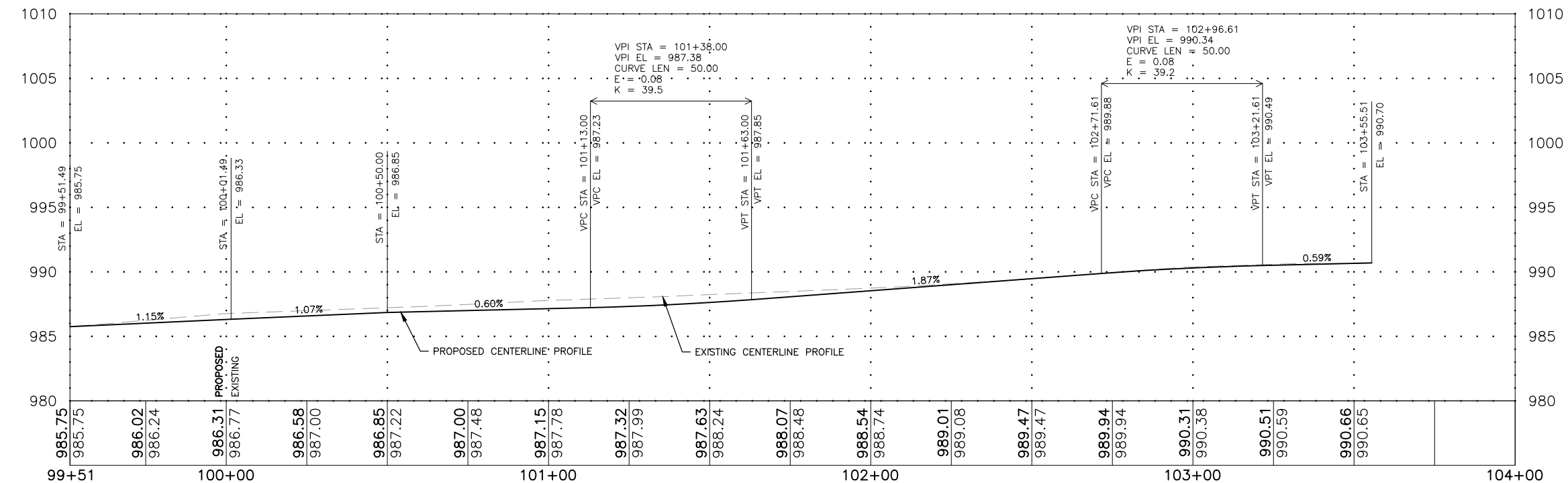
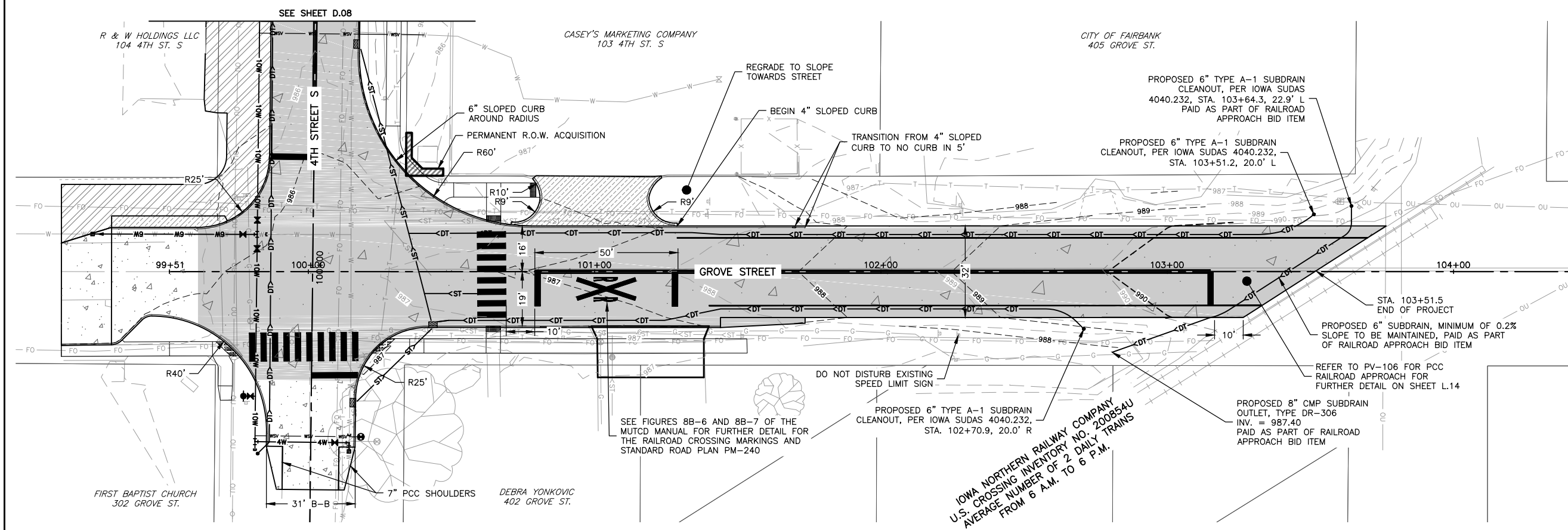
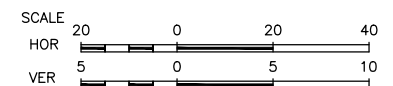
JOB NUMBER:
22-1100

SHEET NUMBER:
D.08

- NOTE:**
1. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR FURTHER SIDEWALK AND DRIVEWAY DETAIL.
 2. FULL DEPTH SAW CUTS TO BE MADE AT ALL PAVEMENT REMOVAL POINTS.
 3. ALL TRANSVERSE JOINTS TO BE 'CD' JOINTS U.O.N. AND A MAXIMUM OF 15' APART.

LEGEND

-  9" PCC PAVEMENT
-  7" PCC PAVEMENT
-  3" HMA PAVEMENT
-  8" PCC DRIVEWAY
-  4" HMA DRIVEWAY



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ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

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116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

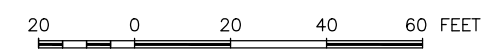
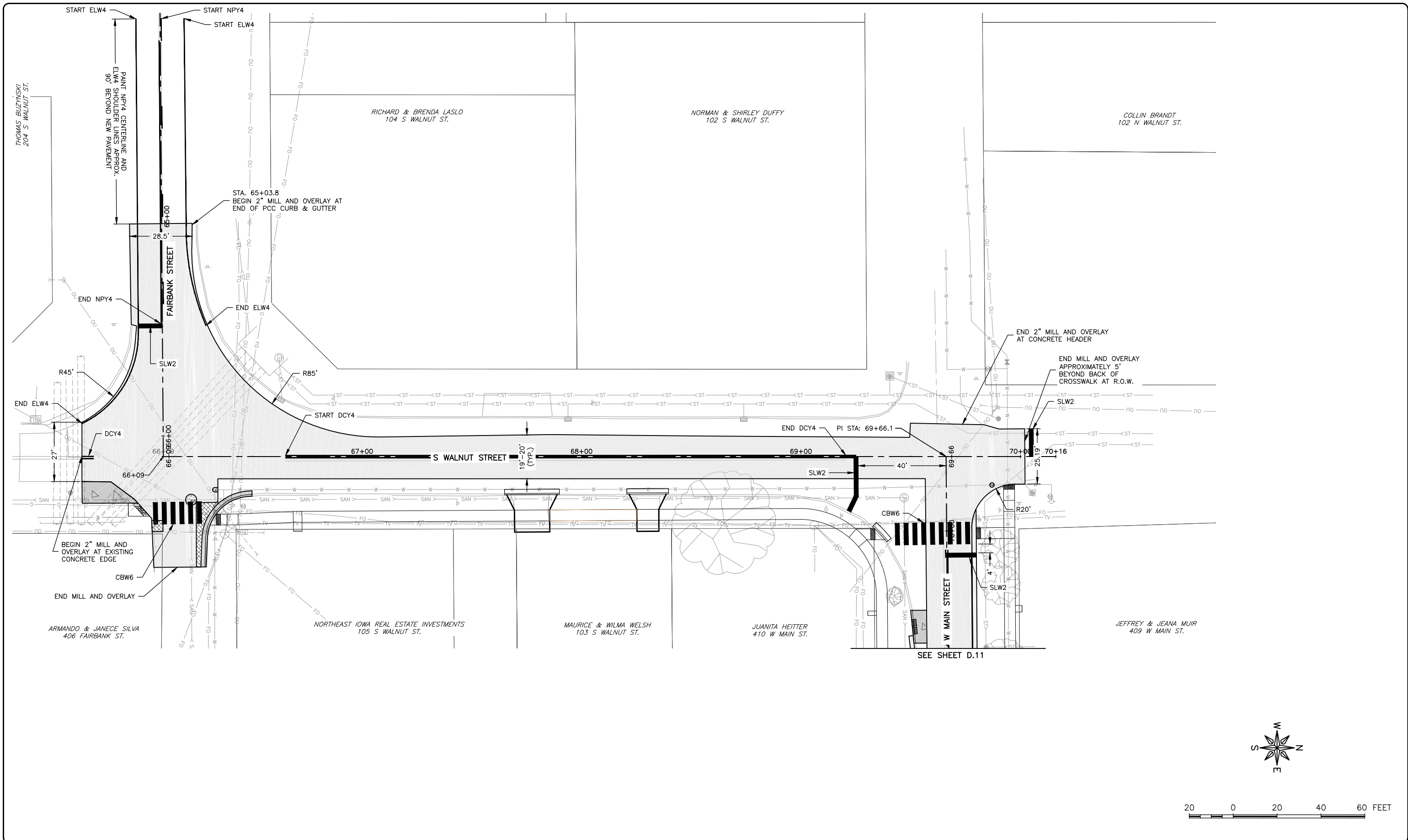
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SET TYPE: **BID LETTING**

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JOB NUMBER:
22-1100

SHEET NUMBER:
D.09



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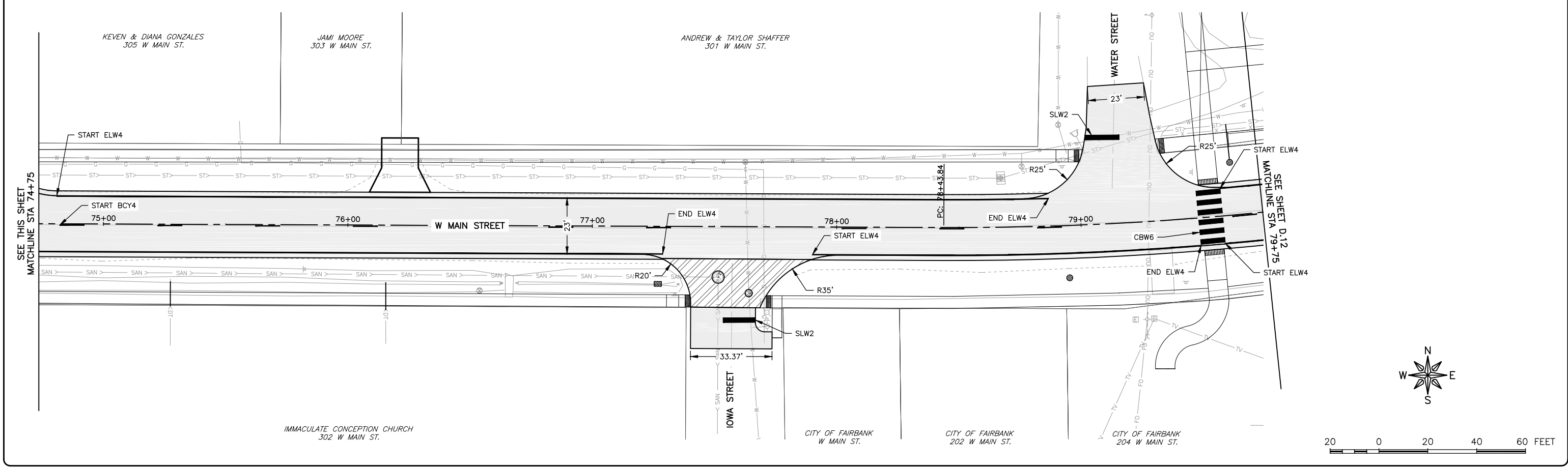
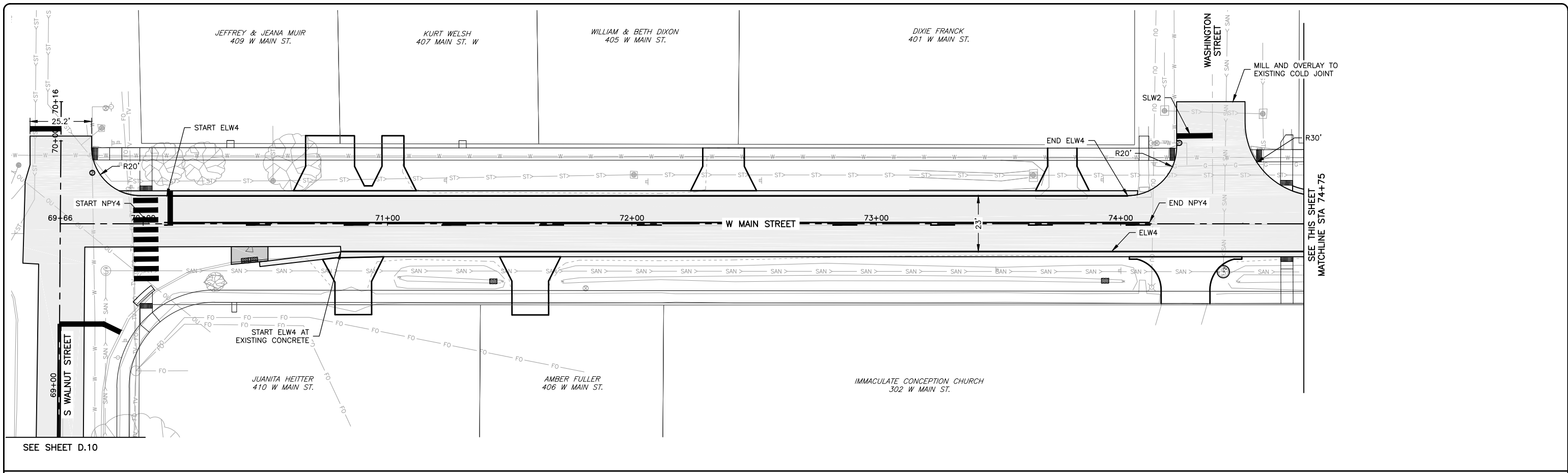
REVISIONS		
REV. NO.	DESCRIPTION	DATE

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SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, D.10 - WALNUT

JOB NUMBER:
22-1100

SHEET NUMBER:
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SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

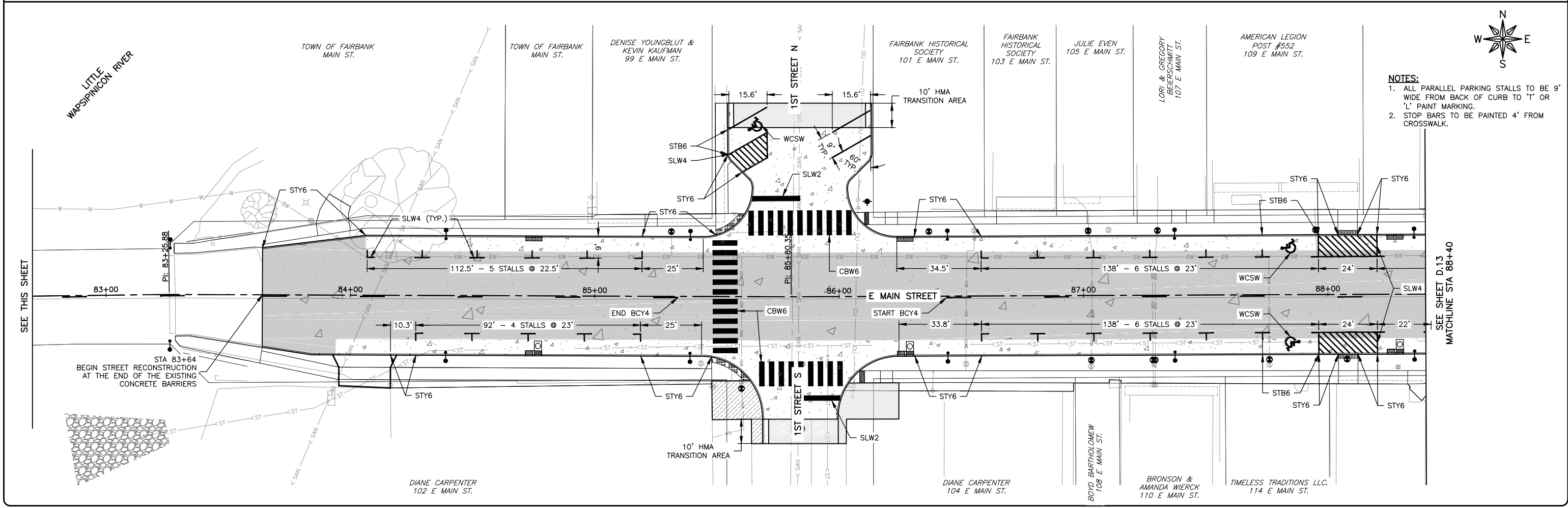
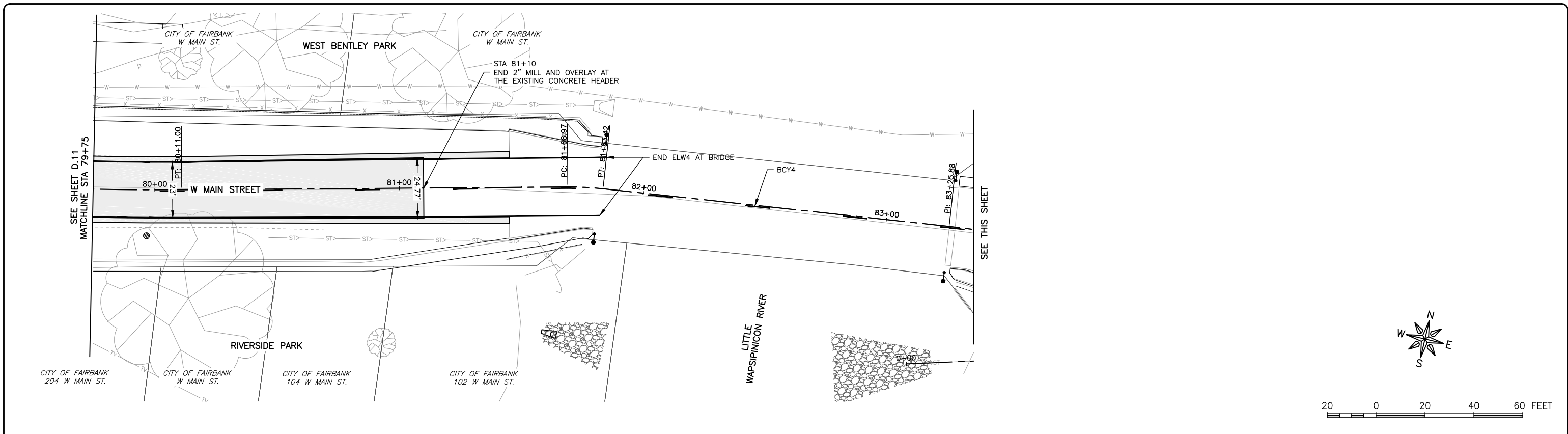
DRAWING:
PAVEMENT MARKINGS - MAIN STREET

SET TYPE: BID LETTING

G:\C30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, D.11 - W.MAN (1)

JOB NUMBER:
22-1100

SHEET NUMBER:
D.11



- NOTES:**
1. ALL PARALLEL PARKING STALLS TO BE 9' WIDE FROM BACK OF CURB TO 'T' OR 'L' PAINT MARKING.
 2. STOP BARS TO BE PAINTED 4' FROM CROSSWALK.

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DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

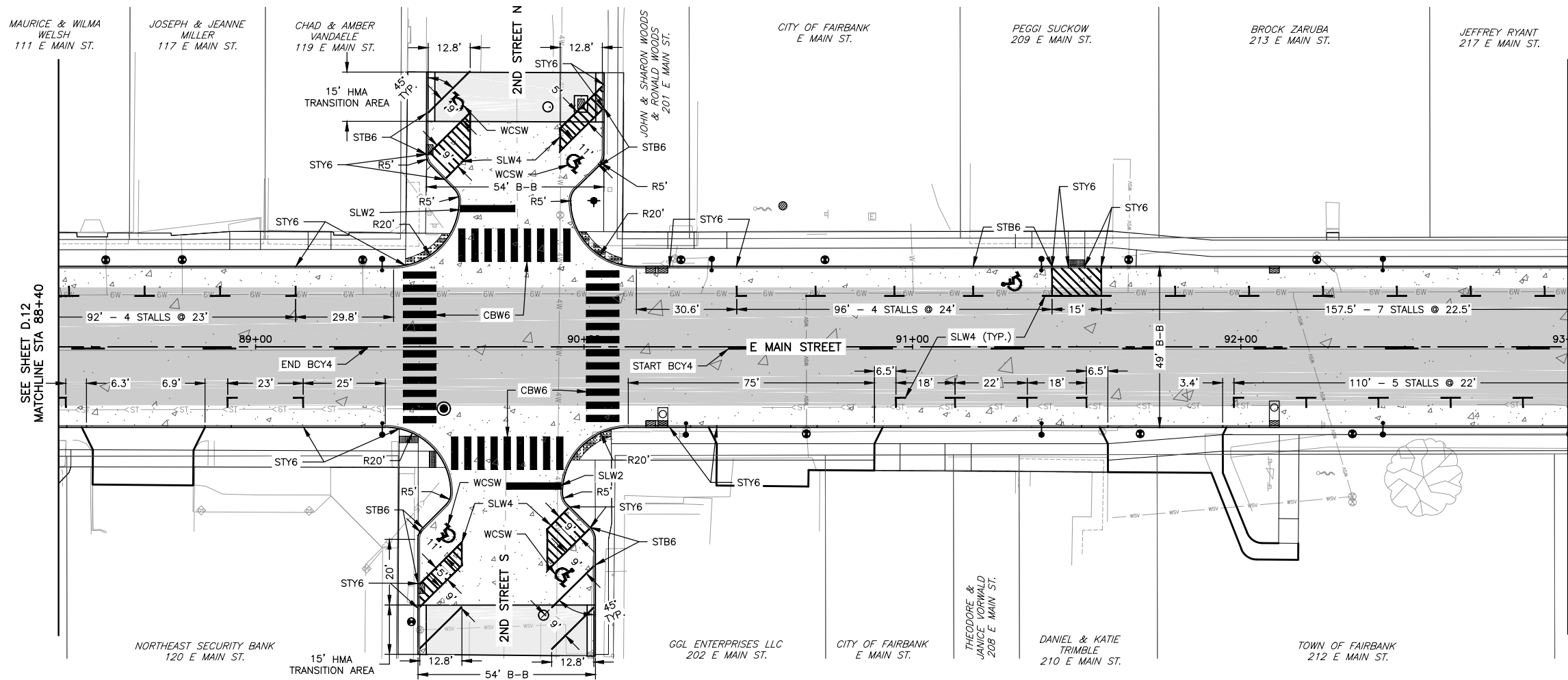
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PAVEMENT MARKINGS - MAIN STREET

SET TYPE: BID LETTING

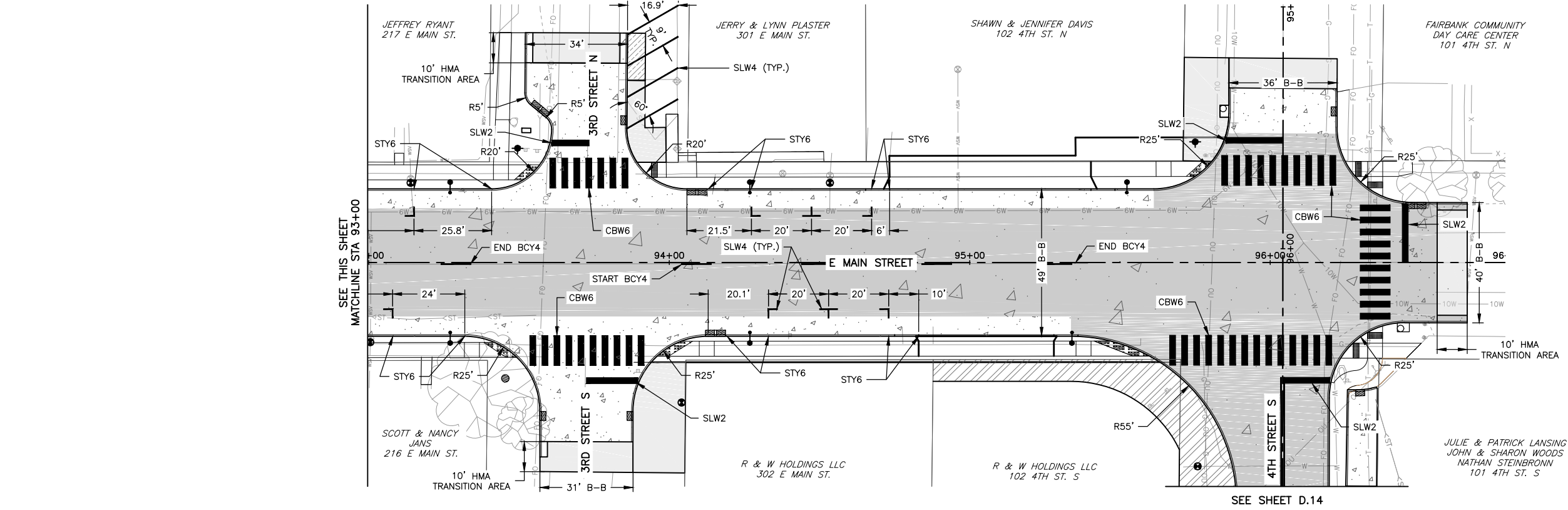
G:\C30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, D.12 - MAIN (2)

JOB NUMBER:
22-1100

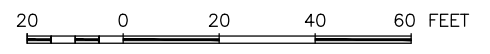
SHEET NUMBER:
D.12



NOTES:
 1. ALL PARALLEL PARKING STALLS TO BE 9' WIDE FROM BACK OF CURB TO 'T' OR 'L' PAINT MARKING.
 2. STOP BARS TO BE PAINTED 4' FROM CROSSWALK.



NOTES:
 1. ALL PARALLEL PARKING STALLS TO BE 9' WIDE FROM BACK OF CURB TO 'T' OR 'L' PAINT MARKING.
 2. STOP BARS TO BE PAINTED 4' FROM CROSSWALK.



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DRAWN BY: AFC
 APPROVED BY: JSB
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 SCALE: AS NOTED

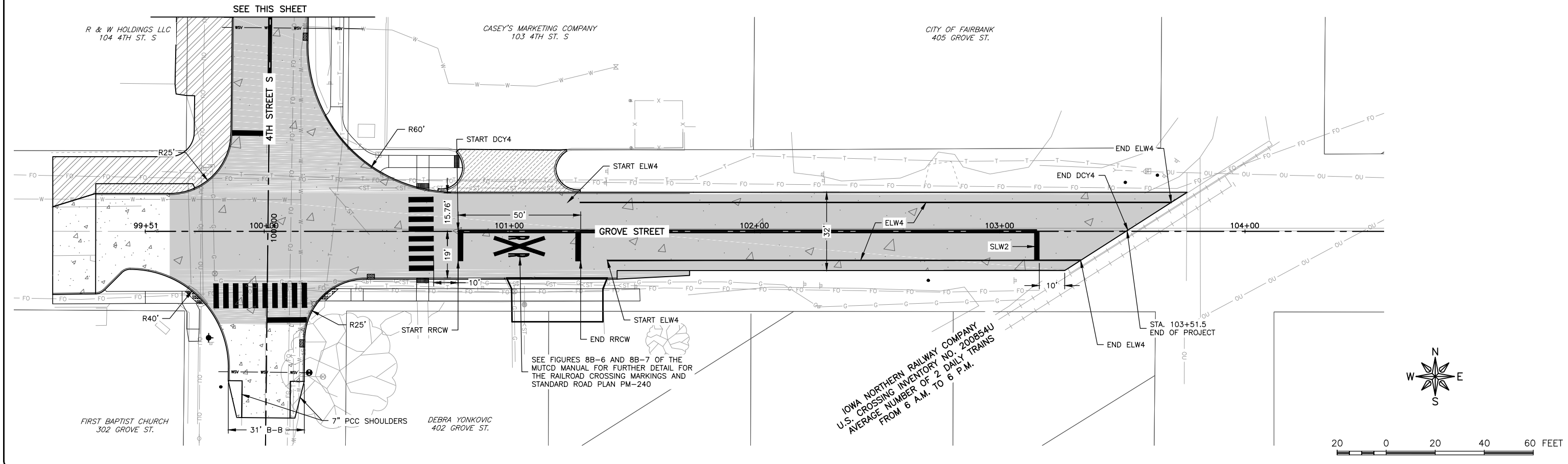
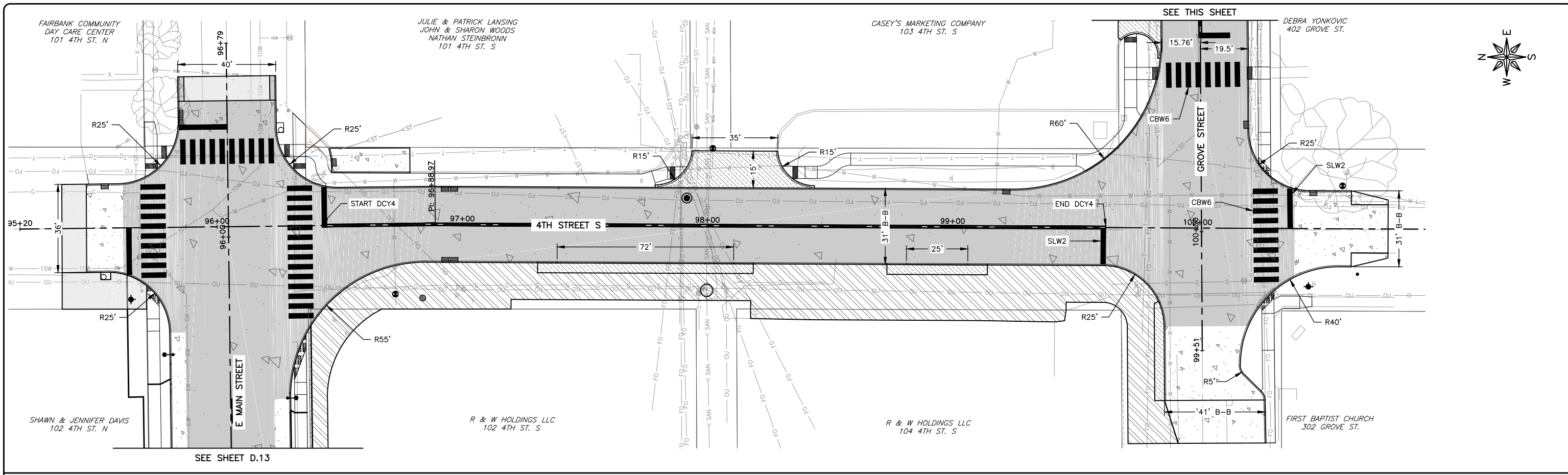
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 PAVEMENT MARKINGS - MAIN STREET

SET TYPE: BID LETTING
 G:\C\2022\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, 0.13 - MAIN (3)

JOB NUMBER:
 22-1100

SHEET NUMBER:
 D.13



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FAIRBANK, IA 50629

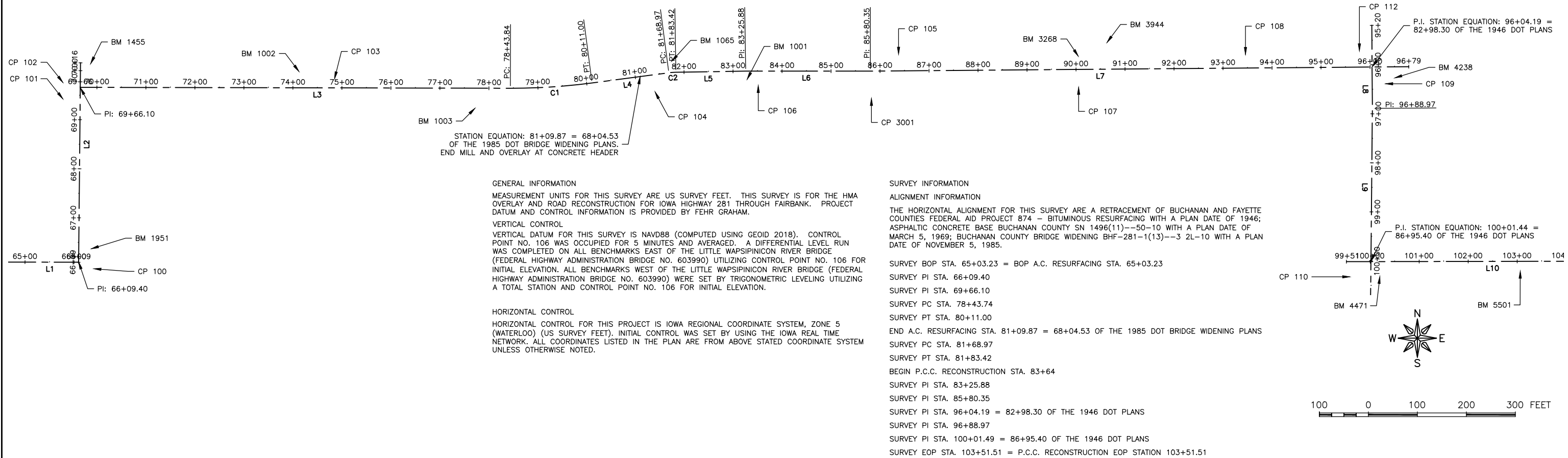
PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PAVEMENT MARKINGS - 4TH STREET &
GROVE STREET
SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, D.14 - 4TH-GROVE (4)

JOB NUMBER:
22-1100
SHEET NUMBER:
D.14



GENERAL INFORMATION

MEASUREMENT UNITS FOR THIS SURVEY ARE US SURVEY FEET. THIS SURVEY IS FOR THE HMA OVERLAY AND ROAD RECONSTRUCTION FOR IOWA HIGHWAY 281 THROUGH FAIRBANK. PROJECT DATUM AND CONTROL INFORMATION IS PROVIDED BY FEHR GRAHAM.

VERTICAL CONTROL

VERTICAL DATUM FOR THIS SURVEY IS NAVD88 (COMPUTED USING GEOID 2018). CONTROL POINT NO. 106 WAS OCCUPIED FOR 5 MINUTES AND AVERAGED. A DIFFERENTIAL LEVEL RUN WAS COMPLETED ON ALL BENCHMARKS EAST OF THE LITTLE WAPSIPINICON RIVER BRIDGE (FEDERAL HIGHWAY ADMINISTRATION BRIDGE NO. 603990) UTILIZING CONTROL POINT NO. 106 FOR INITIAL ELEVATION. ALL BENCHMARKS WEST OF THE LITTLE WAPSIPINICON RIVER BRIDGE (FEDERAL HIGHWAY ADMINISTRATION BRIDGE NO. 603990) WERE SET BY TRIGONOMETRIC LEVELING UTILIZING A TOTAL STATION AND CONTROL POINT NO. 106 FOR INITIAL ELEVATION.

HORIZONTAL CONTROL

HORIZONTAL CONTROL FOR THIS PROJECT IS IOWA REGIONAL COORDINATE SYSTEM, ZONE 5 (WATERLOO) (US SURVEY FEET). INITIAL CONTROL WAS SET BY USING THE IOWA REAL TIME NETWORK. ALL COORDINATES LISTED IN THE PLAN ARE FROM ABOVE STATED COORDINATE SYSTEM UNLESS OTHERWISE NOTED.

SURVEY INFORMATION

ALIGNMENT INFORMATION

THE HORIZONTAL ALIGNMENT FOR THIS SURVEY ARE A RETRACEMENT OF BUCHANAN AND FAYETTE COUNTIES FEDERAL AID PROJECT 874 - BITUMINOUS RESURFACING WITH A PLAN DATE OF 1946; ASPHALTIC CONCRETE BASE BUCHANAN COUNTY SN 1496(11)--50-10 WITH A PLAN DATE OF MARCH 5, 1969; BUCHANAN COUNTY BRIDGE WIDENING BHF-281-1(13)--3 2L-10 WITH A PLAN DATE OF NOVEMBER 5, 1985.

SURVEY BOP STA. 65+03.23 = BOP A.C. RESURFACING STA. 65+03.23

SURVEY PI STA. 66+09.40

SURVEY PC STA. 69+66.10

SURVEY PT STA. 80+11.00

SURVEY PT STA. 81+83.42

BEGIN P.C.C. RECONSTRUCTION STA. 83+64

SURVEY PI STA. 83+25.88

SURVEY PI STA. 85+80.35

SURVEY PI STA. 96+04.19 = 82+98.30 OF THE 1946 DOT PLANS

SURVEY PI STA. 96+88.97

SURVEY PI STA. 100+01.49 = 86+95.40 OF THE 1946 DOT PLANS

SURVEY EOP STA. 103+51.51 = P.C.C. RECONSTRUCTION EOP STATION 103+51.51

ALIGNMENT COORDINATES

This Data Entry Sheet fills Tab 101-16 MODIFIED effective 10-20-09

Name	Location	Point on Tangent		Begin Curve		Simple Curve PI or Master PI of SCS				End Curve			
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
L1	FAIRBANK ST.	65+03.23	8,895,774.38	15,551,784.27									
L2	WALNUT ST.	66+09.40	8,895,774.14	15,551,890.44									
L3	MAIN ST.	69+66.10	8,896,130.83	15,551,893.85									
C1	MAIN ST.				78+43.84	8,896,128.95	15,552,771.59	79+27.48	8,896,128.77	15,552,855.36	80+11.00	8,896,139.76	15,552,938.27
L4	MAIN ST.	80+11.00	8,896,139.76	15,552,938.27									
C2	MAIN ST.				81+68.97	8,896,160.48	15,553,094.88	81+76.16	8,896,161.43	15,553,102.02	81+83.42	8,896,161.55	15,553,109.28
L5	MAIN ST.	81+83.42	8,896,161.55	15,553,109.28									
L6	MAIN ST.	83+25.88	8,896,163.83	15,553,251.72									
L7	MAIN ST.	85+80.35	8,896,163.88	15,553,506.19									
L8	4TH ST.	96+04.19	8,896,172.29	15,554,530.00									
L9	4TH ST.	96+88.97	8,896,087.91	15,554,530.60									
L10	GROVE ST.	100+01.49	8,895,775.40	15,554,527.67									

CIRCULAR CURVE DATA

This Data Entry Sheet fills Tab 101-17 MODIFIED effective 4-19-11

Name	Location	ΔSCS	Curve Data					Remarks
			ΔC	T	L	R	E	
C1	MAIN ST.		07°39'42"	83.7	167.15	1250	2.79	
C2	MAIN ST.		06°37'19"	7.23	14.45	125	0.21	

SURVEY CONTROL INFORMATION

CONTROL POINTS

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 100	8895760.81	15551921.22	976.15	1/2" REBAR WITH FG ORANGE CAP
CP 101	8896107.09	15551858.44	976.30	CUT "X" NE INTK PCC
CP 102	8896140.63	15551858.48	976.89	1/2" REBAR WITH ALUMINUM FG CAP, OLD CP5
CP 103	8896147.78	15552412.59	970.91	1/2" REBAR WITH FG ORANGE CAP
CP 104	8896121.74	15553066.71	970.22	1/2" REBAR WITH FG ORANGE CAP
CP 105	8896197.90	15553563.76	969.31	CUT "X"
CP 106	8896134.99	15553277.43	970.07	1/2" REBAR WITH FG ORANGE CAP
CP 107	8896131.22	15553931.27	974.71	CUT "X"
CP 108	8896197.49	15554271.73	979.77	1/2" REBAR WITH FG ORANGE CAP
CP 109	8896138.05	15554557.37	983.34	1/2" REBAR WITH FG ORANGE CAP
CP 110	8895744.33	15554484.97	986.30	1/2" REBAR WITH FG ORANGE CAP
CP 112	8896204.86	15554504.25	982.42	MAG NAIL
CP 3041	8896190.22	15553480.74	968.11	CUT "X" ON NORTH SANITARY RIM

BENCHMARKS

BENCHMARK	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM 1001	8896147.20	15553254.77	974.06	FIRE HYDRANT - CUT "X" SOUTH WALL, EAST OF BRIDGE
BM 1002	8896162.94	15552340.21	973.58	FIRE HYDRANT - CUT "X" ON BURY BOLT
BM 1003	8896088.24	15552699.40	968.78	FIRE HYDRANT - CUT "X" ON MUELLER BOLT
BM 1065	8896183.89	15553100.64	972.20	FIRE HYDRANT - TOP ROUND BOLT
BM 1455	8896178.70	15551914.80	977.77	FIRE HYDRANT - NE BURY BOLT
BM 1951	8895801.48	15551916.20	979.15	FIRE HYDRANT - TOP BOLT
BM 3268	8896194.23	15553930.58	976.21	FIRE HYDRANT - CUT "X" ON NW BURY BOLT
BM 3944	8896222.22	15553989.01	975.47	FIRE HYDRANT - BURY TAG BOLT
BM 4238	8896150.00	15554576.19	984.63	FIRE HYDRANT - CUT "X" SE BURY BOLT
BM 4471	8895745.47	15554546.09	989.19	FIRE HYDRANT - CUT "X" SW BURY BOLT
BM 5501	8895756.28	15554832.56	990.72	NW ANCHOR BOLT ON RR CROSSING SIGN



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REV. NO.	DESCRIPTION	DATE

DRAWING:
BENCHMARKS & CENTERLINE DATA

SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, G.01

JOB NUMBER:
22-1100

SHEET NUMBER:
G.01

NOTE:
SEE SHEET H.05 FOR MONUMENT DATA TABULATION.



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REV. NO.	DESCRIPTION	DATE

DRAWING:
RIGHT-OF-WAY AND ACQUISITIONS

SET TYPE: **BID LETTING**
G:\C30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, H.01

JOB NUMBER:
22-1100

SHEET NUMBER:
H.01

NOTE:
SEE SHEET H.05 FOR MONUMENT DATA TABULATION.



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REV. NO.	DESCRIPTION	DATE

DRAWING:
RIGHT-OF-WAY AND ACQUISITIONS

SET TYPE: BID LETTING
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JOB NUMBER:
22-1100

SHEET NUMBER:
H.02

NOTE:
SEE SHEET H.05 FOR MONUMENT DATA TABULATION.



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SCALE: AS NOTED

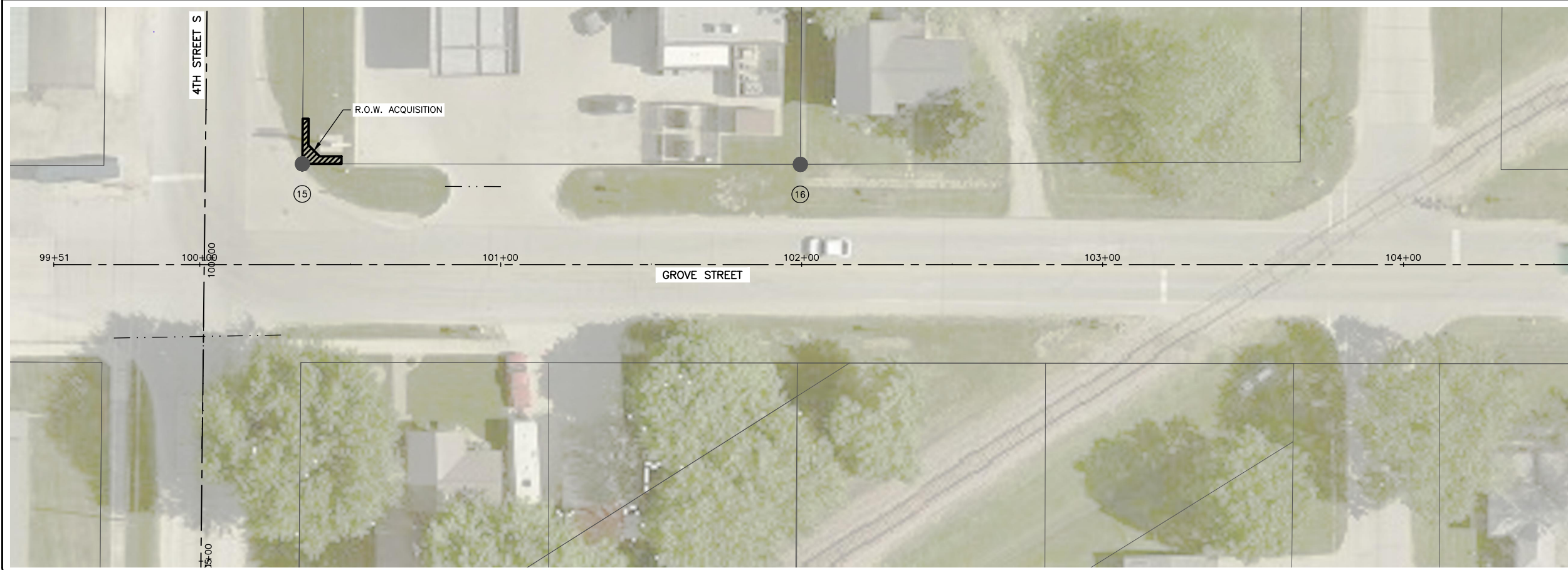
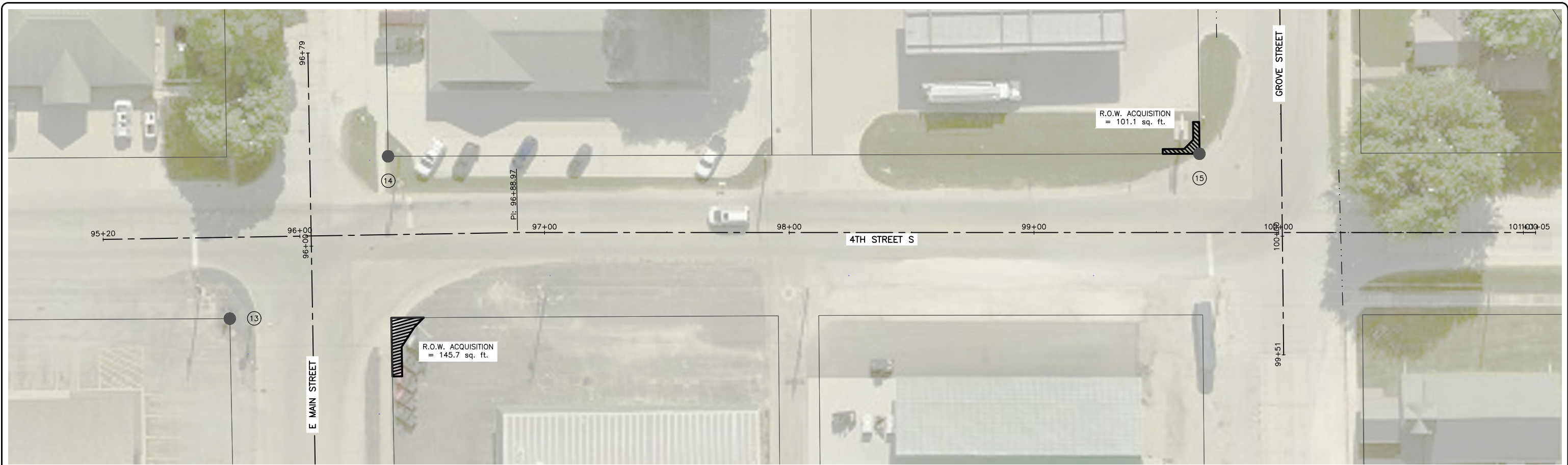
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
RIGHT-OF-WAY AND ACQUISITIONS

SET TYPE: BID LETTING
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JOB NUMBER:
22-1100

SHEET NUMBER:
H.03



NOTE:
SEE SHEET H.05 FOR MONUMENT DATA TABULATION.

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REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
RIGHT-OF-WAY AND ACQUISITIONS

SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, H.04







JOB NUMBER:
22-1100

SHEET NUMBER:
H.04

Monument Data

Point Number	Road Monument	Found	Northing	Easting	Station	Offset	Point number
1	N/A	1/2" REBAR W/YPC #8812	8,895,905.99	15,551,924.72	67+41.57	33.02	6014
2	N/A	1/2" REBAR W/YPC #8812	8,895,934.67	15,551,925.00	67+70.25	32.97	6015
3	N/A	1" PIPE	8,896,005.40	15,551,925.50	68+40.98	32.85	6028
4	N/A	TBAR	8,896,163.67	15,551,927.15	69+99.26	32.98	6016
5	N/A	1/2" IRON PIN	8,896,097.31	15,552,065.66	71+37.98	33.21	6027
6	N/A	1/2" REBAR	8,896,162.99	15,552,089.60	71+61.88	-32.67	6024
7	N/A	TBAR	8,896,162.20	15,552,333.50	74+05.68	-32.31	6025
8	N/A	LEAD PLUG	8,896,196.50	15,553,539.69	86+14.11	-32.35	3433
9	N/A	LEAD PLUG	8,896,196.98	15,553,590.18	86+64.61	-32.41	3434
10	N/A	LEAD PLUG	8,896,197.23	15,553,614.68	86+89.11	-32.47	3435
11	N/A	1/2" REBAR W/YPC #9961	8,896,204.30	15,554,263.18	93+37.65	-34.20	6012
12	N/A	1/2" REBAR W/OPC	8,896,204.83	15,554,391.89	94+66.35	-33.67	6011
13	N/A	PK NAIL	8,896,205.87	15,554,496.44	95+70.98	-33.82	6010
14	N/A	TBAR	8,896,140.53	15,554,562.30	96+36.58	-32.07	6005
15	N/A	1/2" REBAR W/YPC #4640	8,895,808.95	15,554,560.22	99+67.64	-32.23	6009
16	N/A	1/2" REBAR W/YPC #4640	8,895,809.14	15,554,725.61	101+99.57	-33.33	6001
17	PI/SECTION CORNER	TORQUE SCREW WSSW IDOT	8,895,777.93	15,550,572.05	N/A	N/A	700
18	PI/SECTION CORNER	1/2" REBAR	8,895,773.94	15,551,890.44	66+09.40	0.21	704
19	PI/SECTION CORNER	1/4" IRON PIN	8,896,130.83	15,551,893.85	69+66.10	0.00	707
20	PI/SECTION CORNER	5/8" IRON PIN	8,897,199.86	15,551,905.22	N/A	N/A	705
21	PI/SECTION CORNER	MAG NAIL	8,897,209.67	15,554,544.38	N/A	N/A	714

LEGEND

-  FOUND SECTION CORNER AS DESCRIBED
-  FOUND OTHER AS DESCRIBED
-  FOUND ROAD POINT
-  EXISTING PROPERTY LINE
-  OPC ORANGE PLASTIC CAP
-  YPC YELLOW PLASTIC CAP

NOTE:
 PRIOR TO THE PCC PAVEMENT – REPLACE PROJECT, A SURVEY WAS PERFORMED TO LOCATE EXISTING ROAD ALIGNMENT AND SEARCH FOR PROPERTY CORNER MONUMENTS ALONG THE PROJECT RIGHT-OF-WAY. ALL WITHIN THE PUBLIC IMPROVEMENT CORRIDOR. THIS SURVEY INDICATES WHAT WAS FOUND AND WHERE IT WAS FOUND IN RELATION TO THE ALIGNMENT. THIS SURVEY IS PERFORMED TO HELP PRESERVE THE PEDIGREE OF THE MONUMENTS FOR THE ROAD ALIGNMENT.



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 116 EAST MAIN STREET
 FAIRBANK, IA 50629

PROJECT AND LOCATION:
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 FAIRBANK, IOWA
 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
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REV. NO.	DESCRIPTION	DATE

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 MONUMENT DATA

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JOB NUMBER:
 22-1100

SHEET NUMBER:
 H.05

511 TRAVEL RESTRICTIONS

This Data Entry Sheet fills Tab 108-25 effective 10-21-14

Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
IOWA 281	EAST/WEST	BUCHANAN					NONE					

*NOTE, CONTRACTOR TO NOTIFY 511 REGARDING CONSTRUCTION WORK RESTRICTIONS REGARDING FLAGGERS AND ONE LANE TRAFFIC.

TRAFFIC CONTROL PLAN

This Data Entry Sheet fills Tab 108-23A effective 8-1-08

REFER TO TABULATION 108-26A FOR TRAFFIC CONTROL SPECIFICS.
TRAFFIC CONTROL ON THIS PROJECT SHALL BE IN ACCORDANCE WITH STANDARD ROAD PLANS LISTED ON TAB 105-4 AND AS DETAILED ELSEWHERE IN THE J SHEETS. FOR ADDITIONAL COMPLEMENTARY INFORMATION, REFER TO PART 6 OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CURRENT STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING, MAINTAINING AND REMOVING ALL DETOUR AND TRAFFIC CONTROL SIGNING.
WORK THAT DIRECTLY AFFECTS TRAFFIC MOVEMENT AND FLOW, SUCH AS STAGING CHANGES, TEMPORARY STRIPING/SIGNING, ETC. SHALL NOT BE ALLOWED BETWEEN 6:00 AM FRIDAY AND 9:00 PM SUNDAY. THE ENGINEER RESERVES THE RIGHT TO MODIFY THE HOURS SPECIFIED ABOVE TO ACCOMMODATE UNEXPECTED TRAFFIC FLOWS. COORDINATE WITH THE ENGINEER A MINIMUM OF TWO (2) WEEKS PRIOR TO CHANGES IN THE PROPOSED TRAFFIC PATTERNS.
FAIRBANK ISLAND DAYS WILL TAKE PLACE FROM JUNE 21ST THROUGH JUNE 25TH 2023. CONSTRUCTION CAN PROCEED DURING FAIRBANK ISLAND DAYS, EXTRA PRECAUTION SHOULD BE TAKEN DURING THIS FESTIVAL TO MINIMIZE INCONVENIENCE TO VEHICULAR AND PEDESTRIAN USERS AS MUCH AS POSSIBLE. PLEASE COORDINATE WITH THE ENGINEER AND CITY OF FAIRBANK IN THE WEEK PRIOR TO FAIRBANK ISLAND DAYS TO DISCUSS WHAT SAFETY PRECAUTIONS CAN BE TAKEN FOR THE FESTIVAL.
CONTRACTOR TO MAINTAIN STORM WATER FLOW THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT TRACKING OR SPILLING OF DIRT, MUD OR OTHER FOREIGN MATERIALS ONTO ALL STREETS.
IOWA 281
- MAINTAIN TRAFFIC, BOTH EASTBOUND AND WESTBOUND, AT ALL TIMES DURING THOSE STAGES WHICH DO NOT INCLUDE A CLOSURE SEGMENT, OR IF SHOWN OTHERWISE ON THE J SHEETS.
- IOWA 281 DETOUR UTILIZING C57 AND W13 SHALL BE SET UP AT THE START OF THE PROJECT AND SHALL REMAIN IN PLACE UNTIL THE PROJECT IS SUBSTANTIALLY COMPLETED, AS DIRECTED BY THE ENGINEER.
- LOCAL DETOURS SHALL BE SET UP FOR CLOSURES DURING STAGES 2, 3, AND 4, SEE J SHEETS FOR FURTHER DETAILS.

STAGING NOTES

This Data Entry Sheet fills Tab 108-26A effective 8-1-08

PROJECT SHALL BE STAGED TO MINIMIZE INCONVENIENCE TO VEHICULAR AND PEDESTRIAN USERS.
THE STAGING AS SHOWN IS THE INTENDED METHOD OF CONSTRUCTION FOR THIS PROJECT. ANY REQUEST FOR CHANGES TO THE STAGING SHALL BE SUBMITTED TO THE CITY OF FAIRBANK AND IOWA DOT FOR REVIEW AND APPROVAL BY CHANGE ORDER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR CHANGES IN TRAFFIC CONTROL OR STAGING SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE CITY AND IOWA DOT.
WORK SHALL BEGIN WITH STAGE 1A AND SHALL PROCEED SEQUENTIALLY THROUGH STAGE 4.
STAGES 3 AND 4 SHALL NOT BE CONSTRUCTED CONCURRENTLY.
STAGE 5 SHALL NOT BEGIN PRIOR TO THE COMPLETION OF STAGES 1A AND 1B, AND SHALL BE COMPLETED PRIOR TO COMMENCING STAGE 6. STAGES 5 AND 6 MAY BE COMPLETED IN CONJUNCTION WITH STAGES 2, 3, AND 4.
STAGE 1A - CONSTRUCTION: THE NORTH HALF OF E. MAIN STREET FROM THE EAST SIDE OF THE LITTLE WAPSIPINICON RIVER BRIDGE TO THE EAST SIDE OF 1ST STREET, APPROXIMATELY STATION 86+50. TRAFFIC CONTROL: MAINTAIN ALTERNATING ONE-WAY TRAFFIC WITH THE USE OF TEMPORARY TRAFFIC SIGNALS PER STANDARD ROAD PLAN TC-216 ON THE SOUTH HALF OF E. MAIN STREET PER SHEET J.05
- PAVEMENT REMOVAL - WATER MAIN CONNECTION AND INSTALLATION - STORM SEWER - SUBDRAIN - PCC STREET AND SIDEWALK PAVING
STAGE 1B - CONSTRUCTION: THE SOUTH HALF OF E. MAIN STREET FROM THE EAST SIDE OF THE LITTLE WAPSIPINICON RIVER BRIDGE TO THE EAST SIDE OF 1ST STREET, APPROXIMATELY STATION 86+50. TRAFFIC CONTROL: MAINTAIN ALTERNATING ONE-WAY TRAFFIC WITH THE USE OF TEMPORARY TRAFFIC SIGNALS PER STANDARD ROAD PLAN TC-216 ON THE NEW PAVEMENT ON THE NORTH HALF OF E. MAIN STREET PER SHEET J.06.
- PAVEMENT REMOVAL - STORM SEWER WORK - SUBDRAIN - PCC STREET, DRIVEWAY, AND SIDEWALK PAVING
STAGE 2 - CONSTRUCTION: E. MAIN STREET FROM THE EAST SIDE OF 1ST STREET TO 4TH STREET. TRAFFIC CONTROL: LOCAL DETOUR SHALL BE SET UP PER SHEET J.07.
- PAVEMENT REMOVAL - WATER MAIN CONNECTION AND INSTALLATION - STORM SEWER - SUBDRAIN - PCC STREET, DRIVEWAY, AND SIDEWALK PAVING
STAGE 3 - CONSTRUCTION: 4TH STREET FROM E. MAIN STREET TO GROVE STREET. TRAFFIC CONTROL: LOCAL DETOUR SHALL BE SET UP PER SHEET J.08.
- PAVEMENT REMOVAL - WATER MAIN CONNECTION AND INSTALLATION - STORM SEWER - SUBDRAIN - PCC STREET, DRIVEWAY, AND SIDEWALK PAVING
STAGE 4 - CONSTRUCTION: GROVE STREET FROM 4TH STREET TO IOWA NORTHERN RAILWAY. TRAFFIC CONTROL: LOCAL DETOUR TO BE SET UP PER SHEET J.09.
- PAVEMENT REMOVAL - WATER MAIN CONNECTION AND INSTALLATION - STORM SEWER - SUBDRAIN - PCC STREET, SIDEWALK AND DRIVEWAY PAVING
STAGE 5 - CONSTRUCTION: W. MAIN STREET TRAFFIC CONTROL: TC-212
- STORM SEWER - HMA SHOULDER
STAGE 6 - CONSTRUCTION: FAIRBANK STREET, WALNUT STREET, W. MAIN STREET TRAFFIC CONTROL: FLAGGERS AND PILOT CAR
- HMA MILL AND OVERLAY



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FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

TRAFFIC CONTROL AND STAGING NOTES

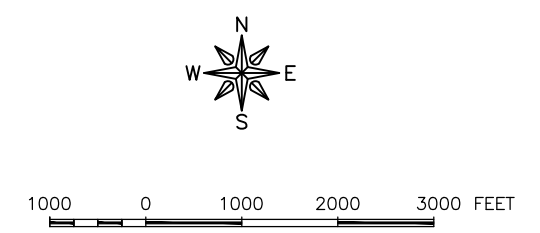
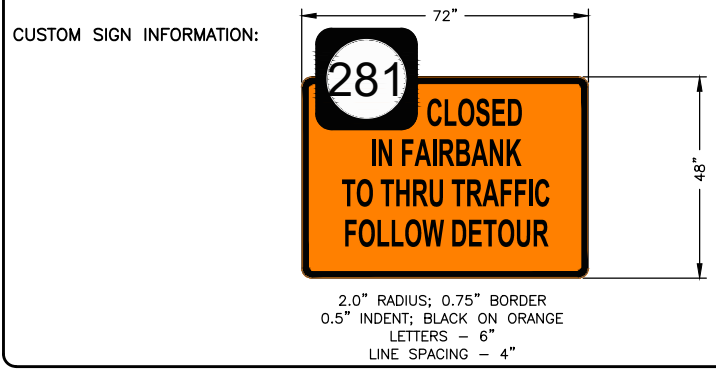
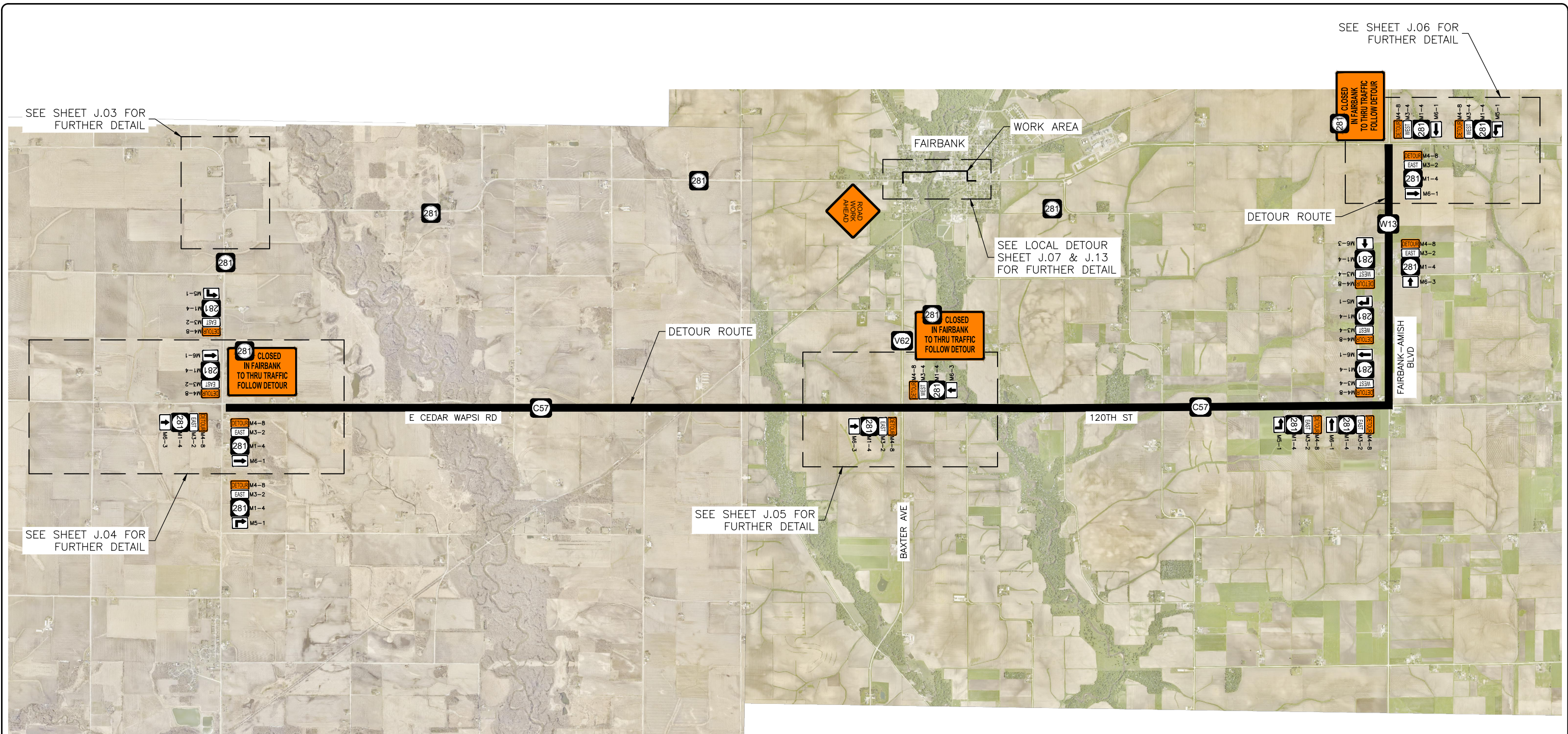
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JOB NUMBER:

22-1100

SHEET NUMBER:

J.01



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SCALE: AS NOTED

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REV. NO.	DESCRIPTION	DATE

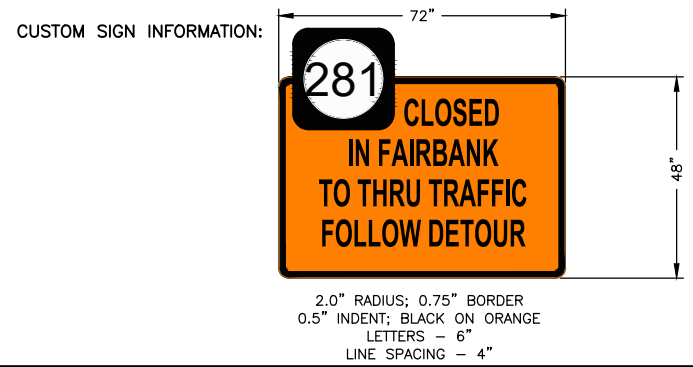
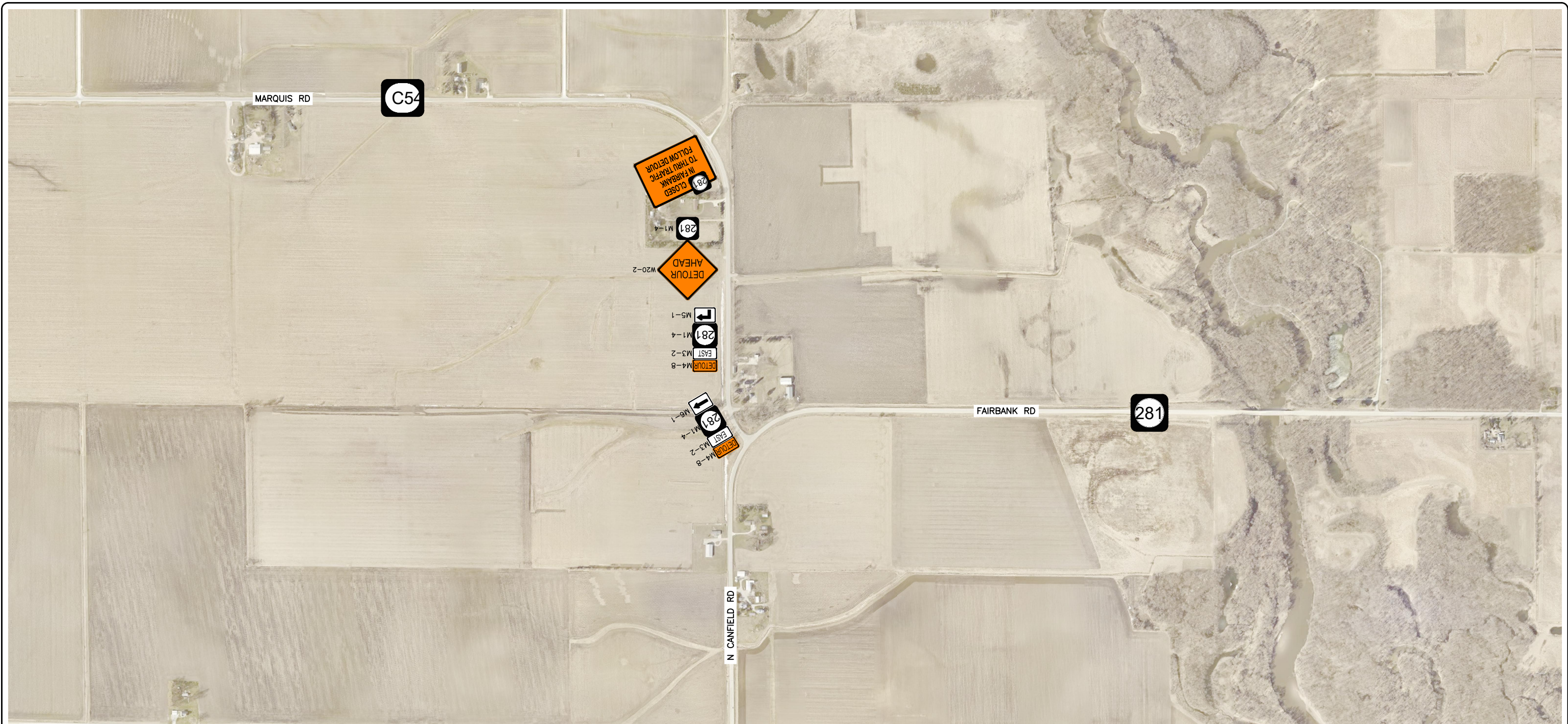
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JOB NUMBER:
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SHEET NUMBER:
J.02



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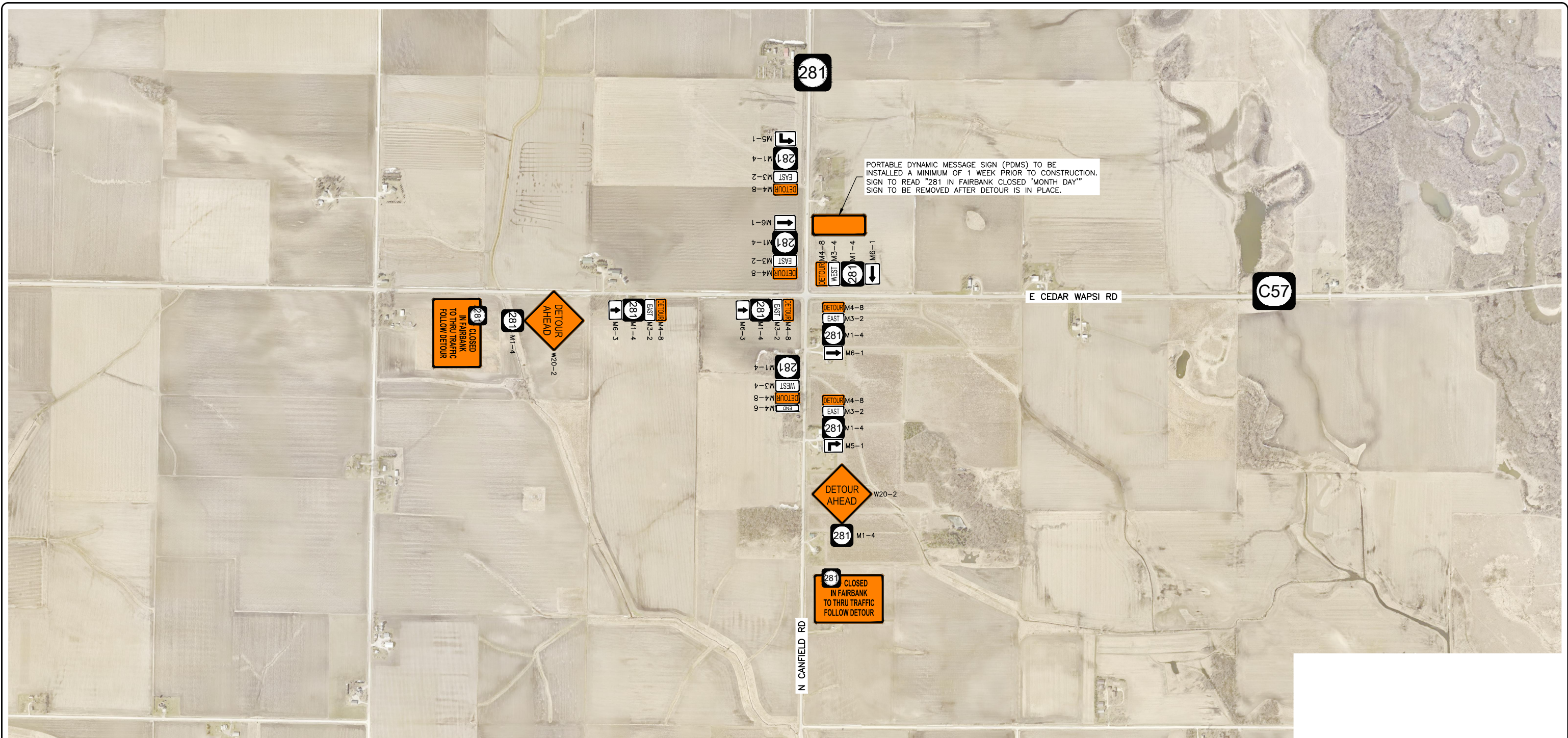
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REV. NO.	DESCRIPTION	DATE

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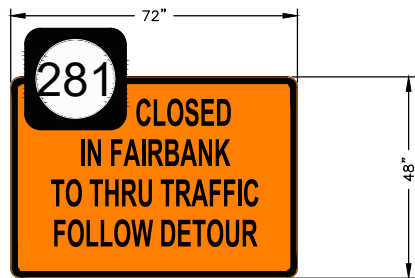
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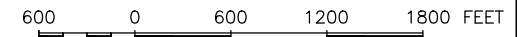
SHEET NUMBER:
J.03



CUSTOM SIGN INFORMATION:



2.0" RADIUS; 0.75" BORDER
0.5" INDENT; BLACK ON ORANGE
LETTERS - 6"
LINE SPACING - 4"



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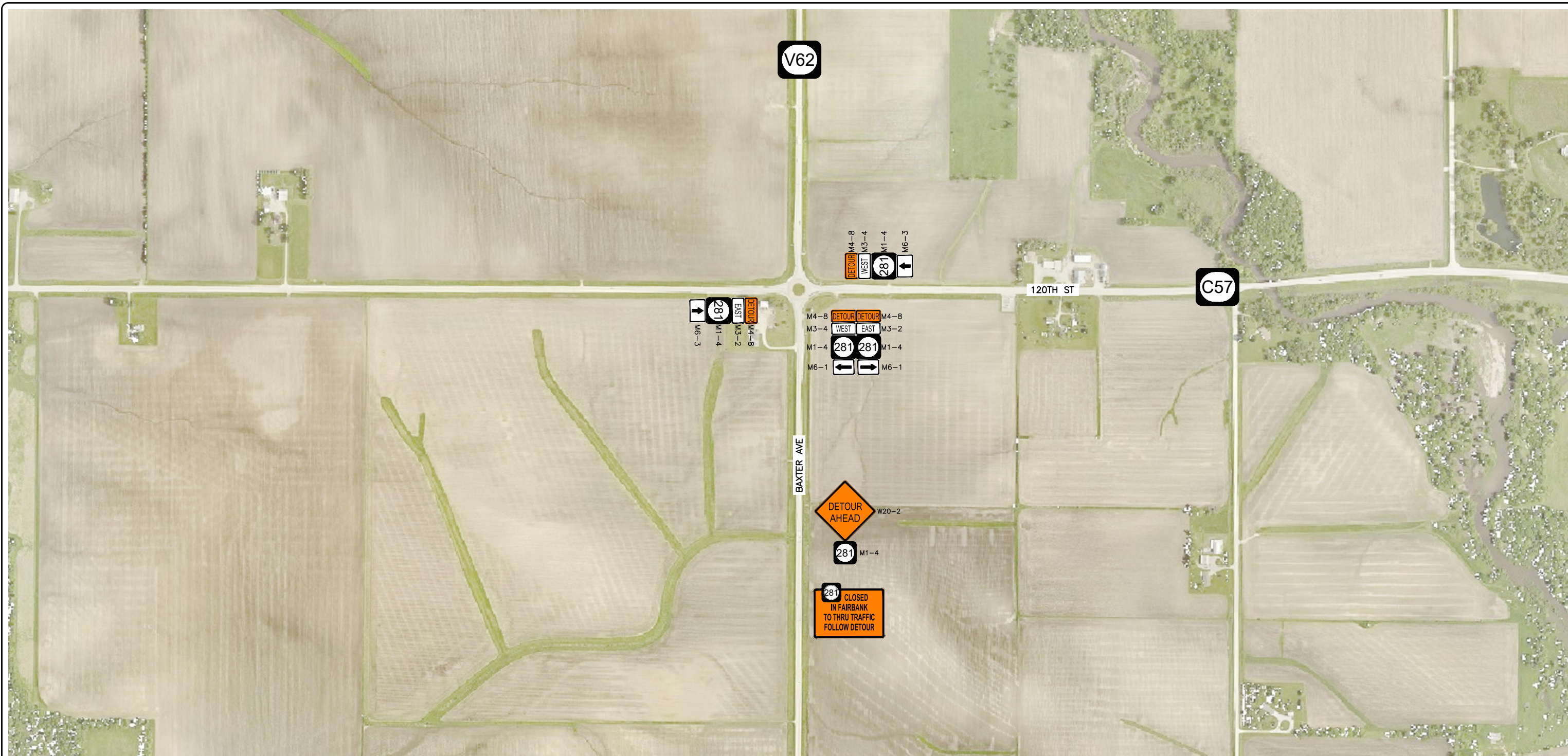
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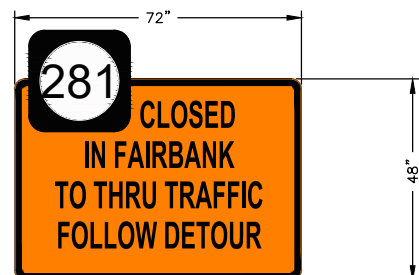
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JOB NUMBER:
22-1100

SHEET NUMBER:
J.04



CUSTOM SIGN INFORMATION:



2.0" RADIUS; 0.75" BORDER
 0.5" INDENT; BLACK ON ORANGE
 LETTERS - 6"
 LINE SPACING - 4"



300 0 300 600 900 FEET

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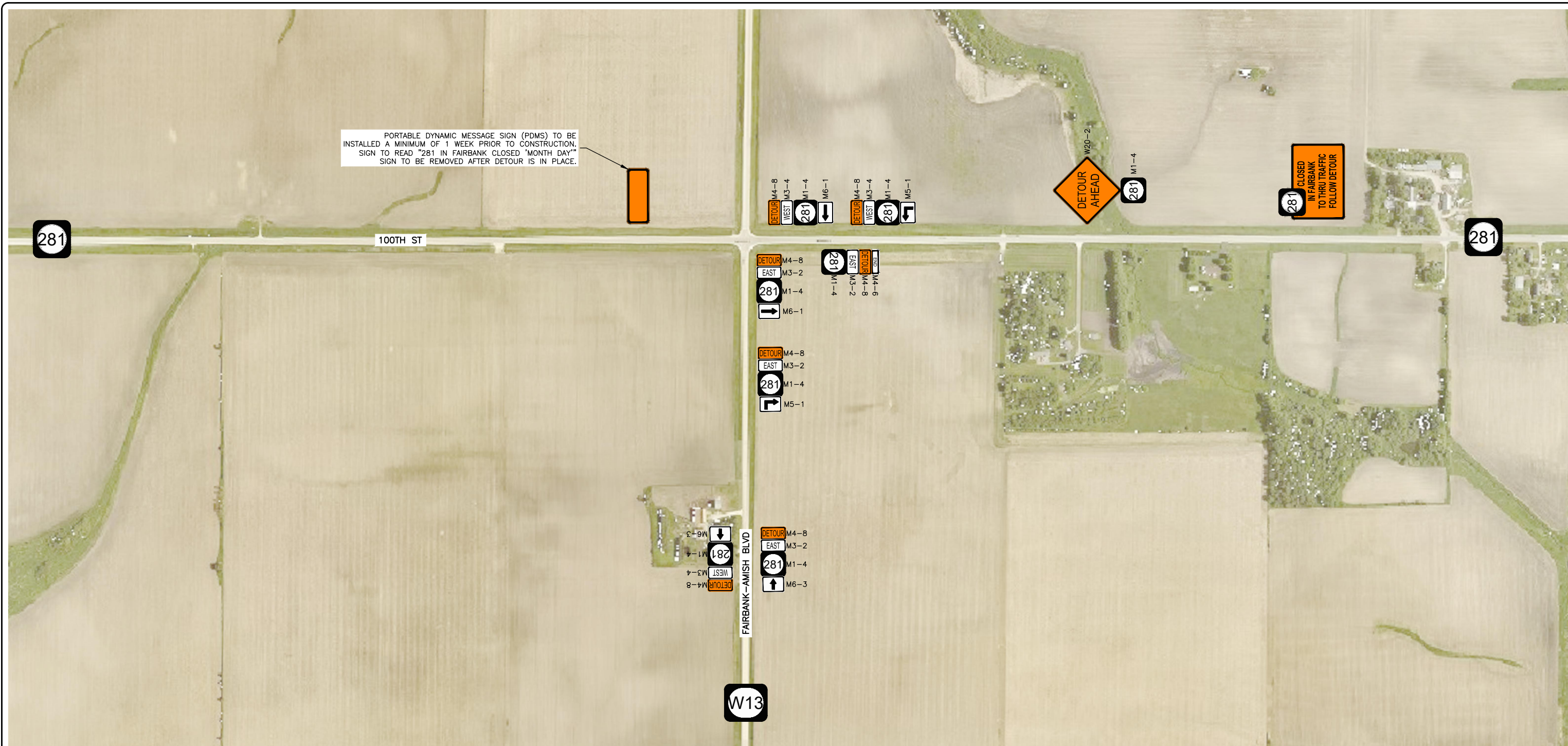
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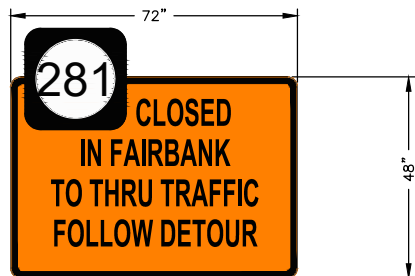
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 22-1100

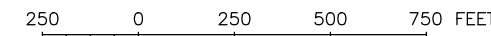
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 J.05



CUSTOM SIGN INFORMATION:



2.0" RADIUS; 0.75" BORDER
 0.5" INDENT; BLACK ON ORANGE
 LETTERS - 6"
 LINE SPACING - 4"



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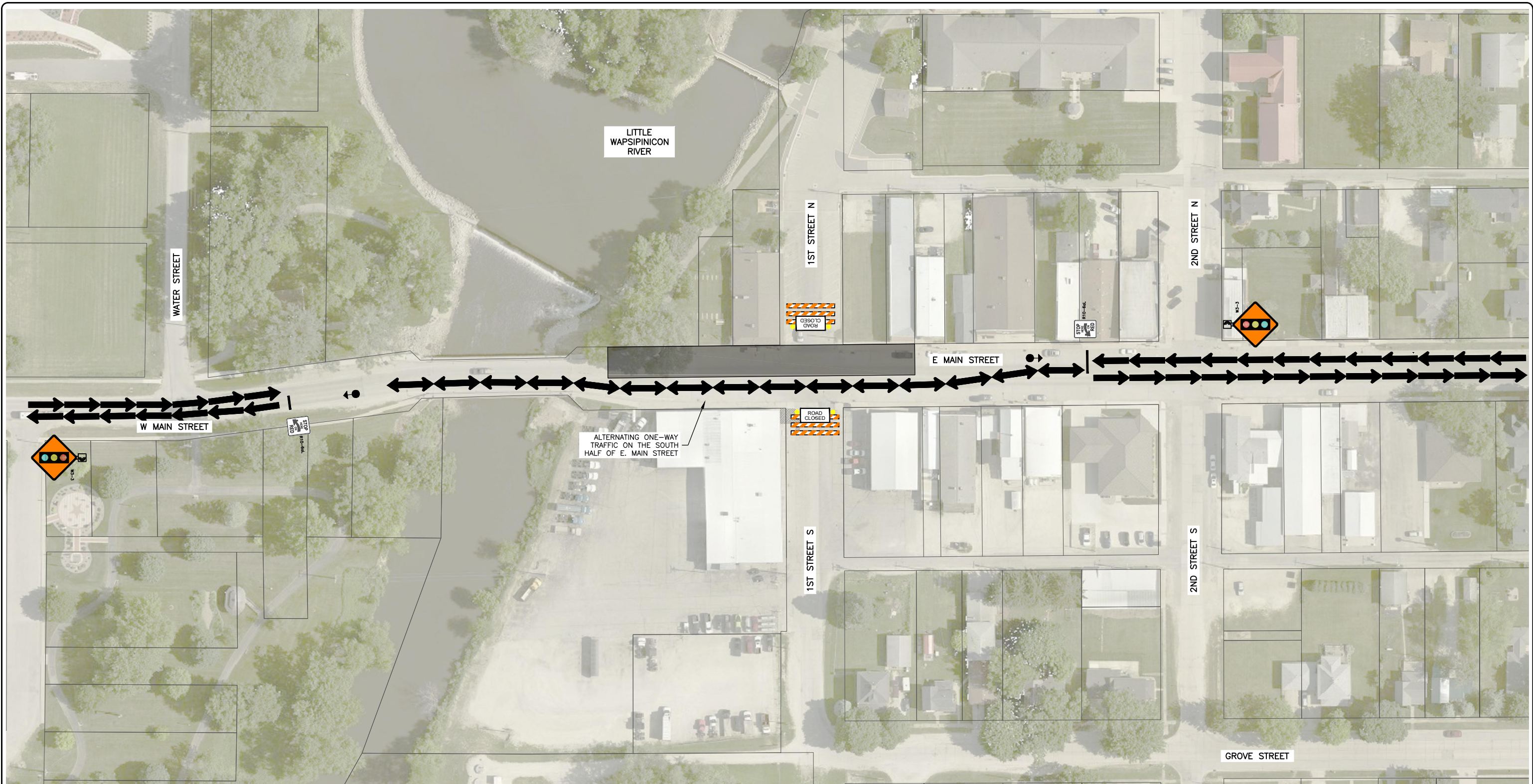
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REV. NO.	DESCRIPTION	DATE

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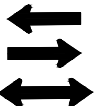

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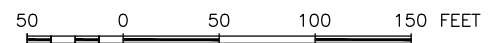
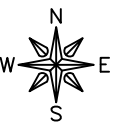
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NOTE:
 1. REFER TO STANDARD ROAD PLAN TC-216 - LANE CLOSURE WITH SIGNALS.

LEGEND

-  CONSTRUCTION AREA
-  DENOTES DIRECTION OF TRAFFIC FLOW
-  TEMPORARY TRAFFIC SIGNALS



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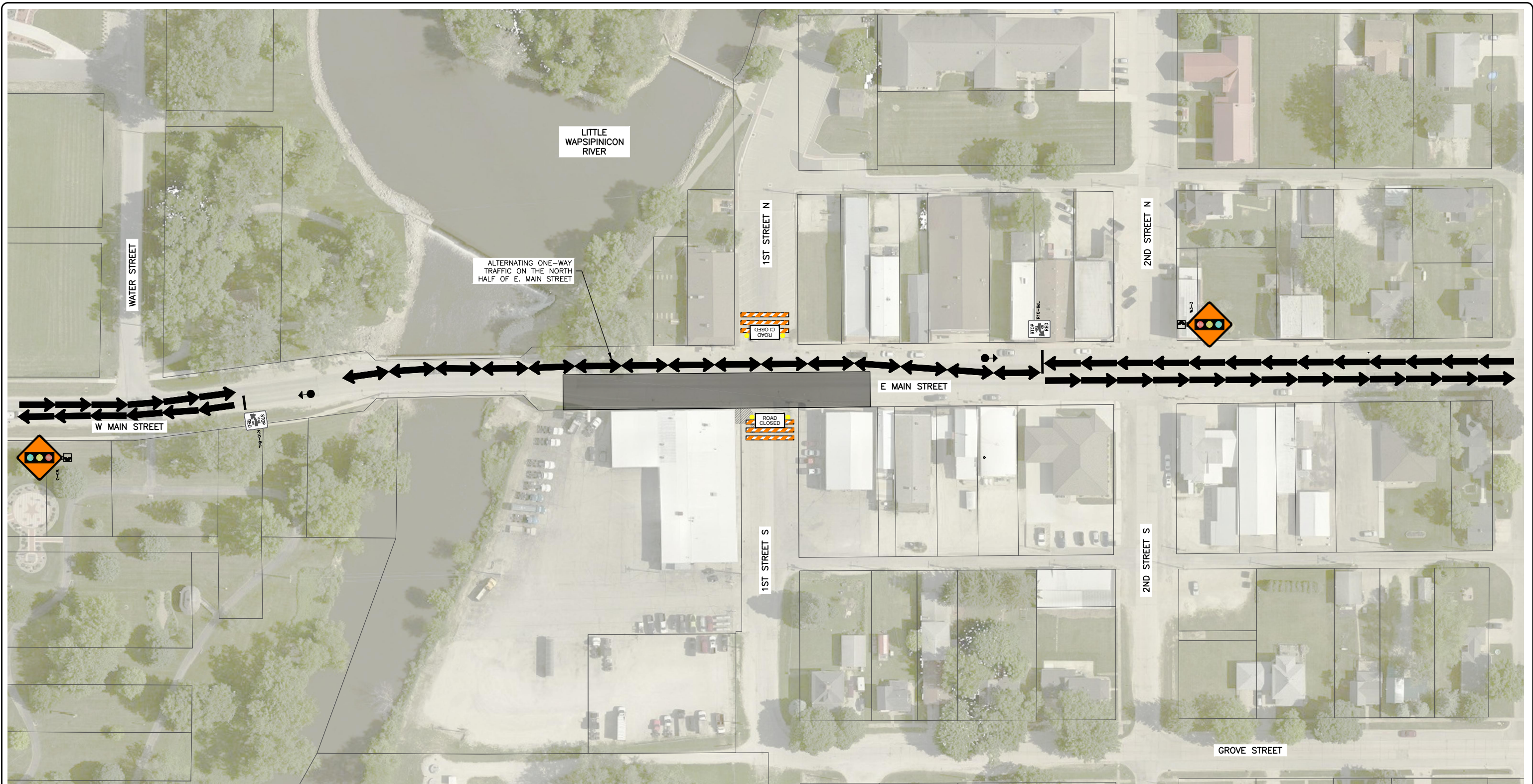
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REV. NO.	DESCRIPTION	DATE

DRAWING:
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SET TYPE: BID LETTING
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JOB NUMBER:
 22-1100

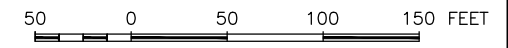
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NOTE:
 1. REFER TO STANDARD ROAD PLAN TC-216 - LANE CLOSURE WITH SIGNALS.

LEGEND

-  CONSTRUCTION AREA
-  DENOTES DIRECTION OF TRAFFIC FLOW
-  TEMPORARY TRAFFIC SIGNALS



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 SCALE: AS NOTED

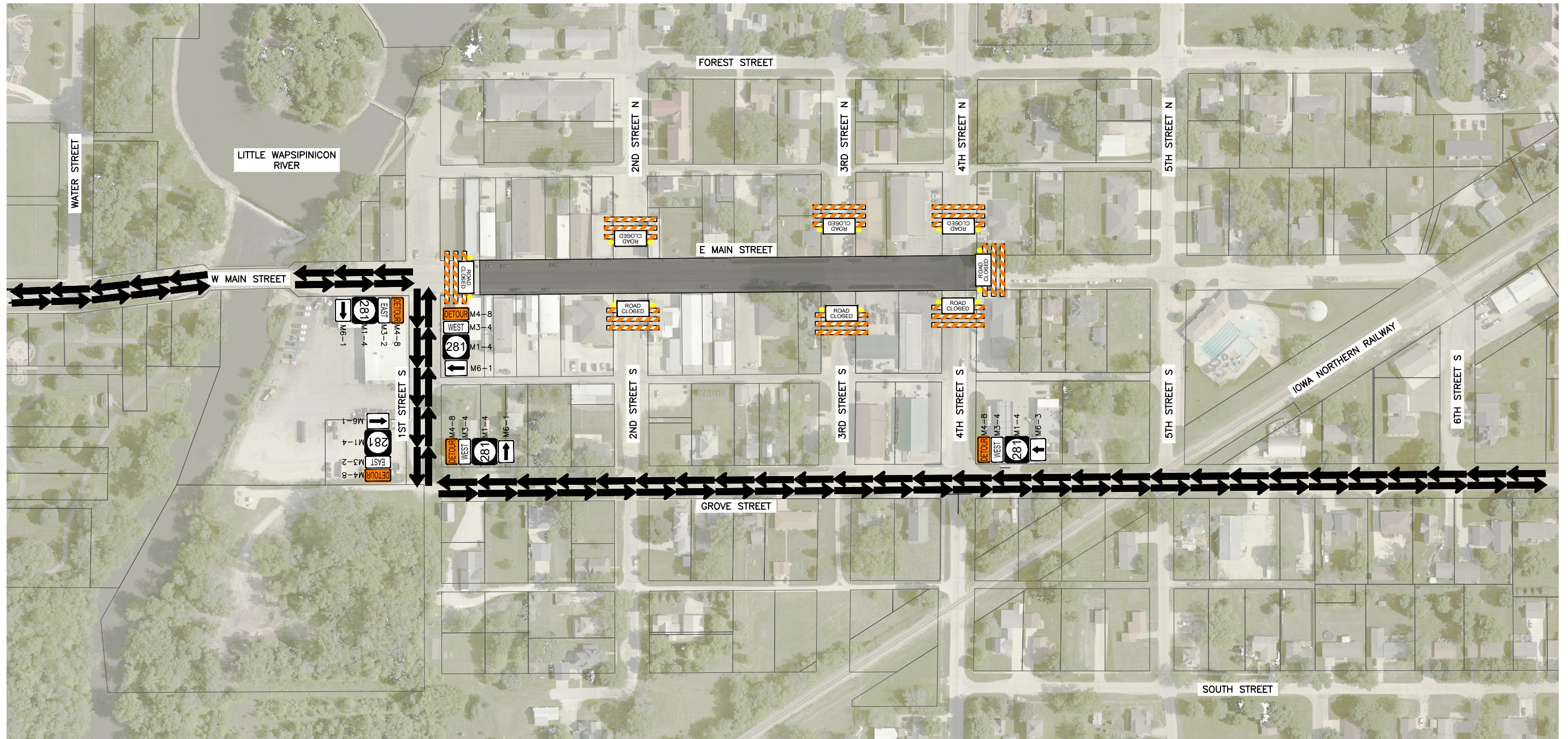
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 TRAFFIC CONTROL - STAGE 1B


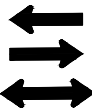
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JOB NUMBER:
 22-1100

SHEET NUMBER:
 J.08



LEGEND

-  CONSTRUCTION AREA
-  DENOTES DIRECTION OF TRAFFIC FLOW



100 0 100 200 300 FEET

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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
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SCALE: AS NOTED

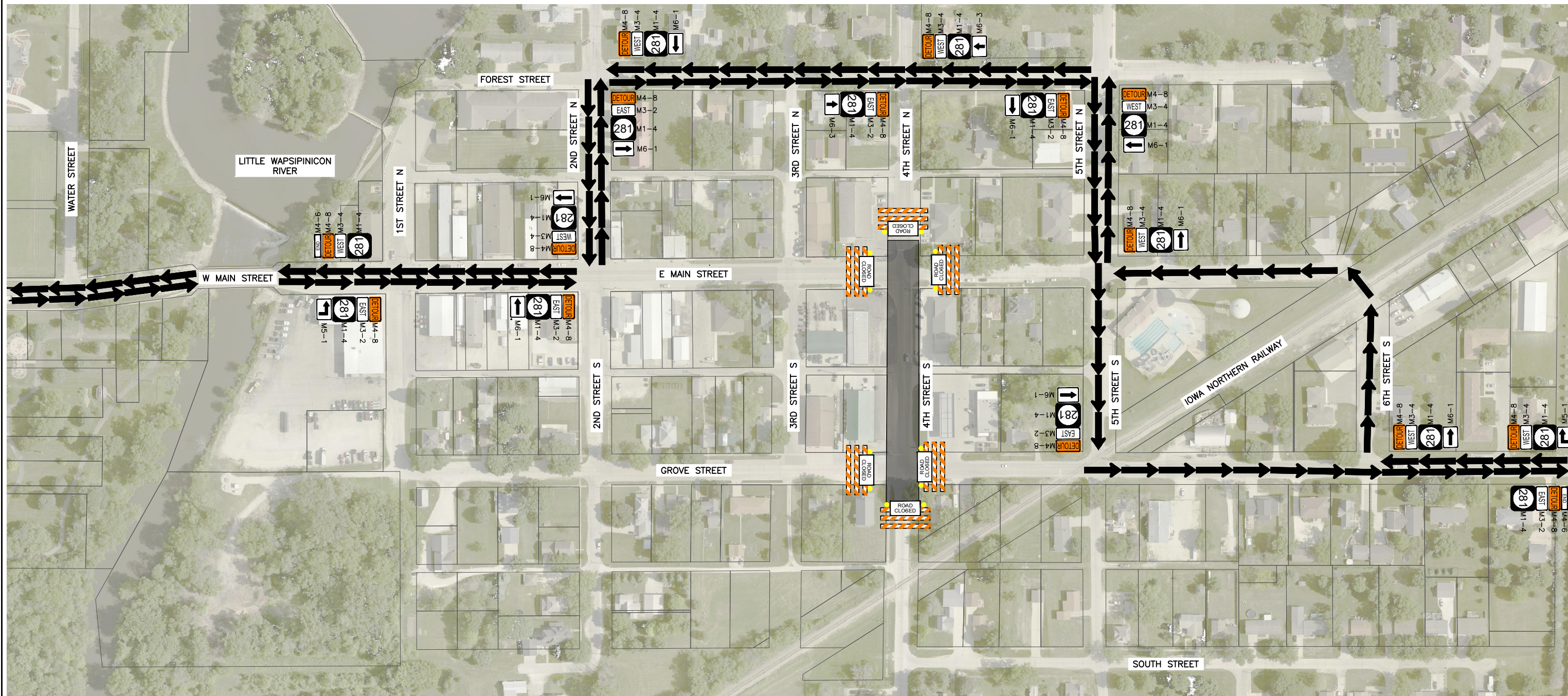
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REV. NO.	DESCRIPTION	DATE

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TRAFFIC CONTROL - STAGE 2


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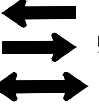
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22-1100


SHEET NUMBER:
J.09



LEGEND

 CONSTRUCTION AREA

 DENOTES DIRECTION OF TRAFFIC FLOW



100 0 100 200 300 FEET

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SCALE: AS NOTED

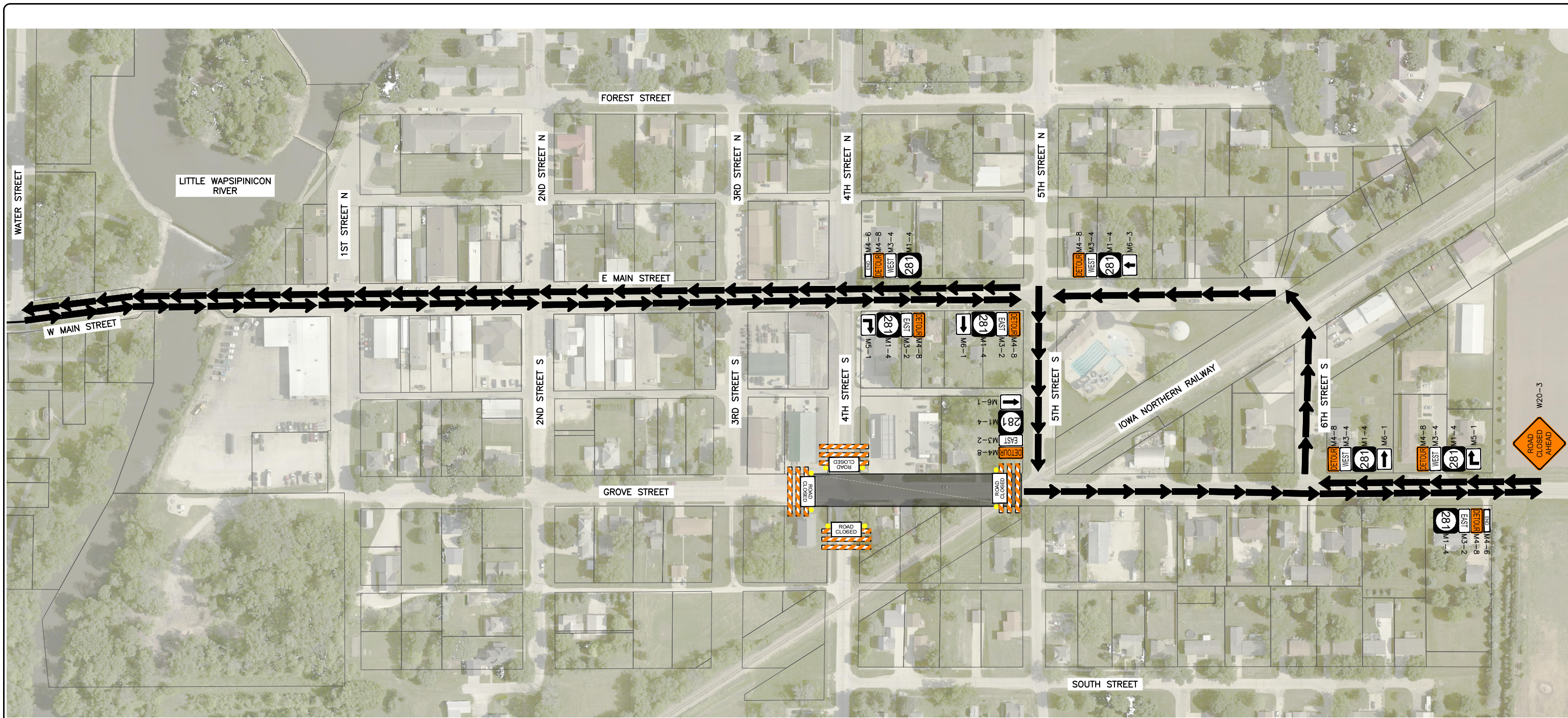
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REV. NO.	DESCRIPTION	DATE

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TRAFFIC CONTROL - STAGE 3

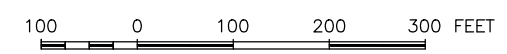
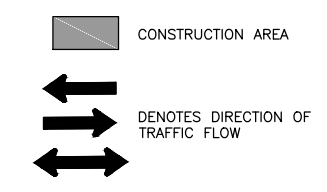
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JOB NUMBER:
22-1100

SHEET NUMBER:
J.10



LEGEND



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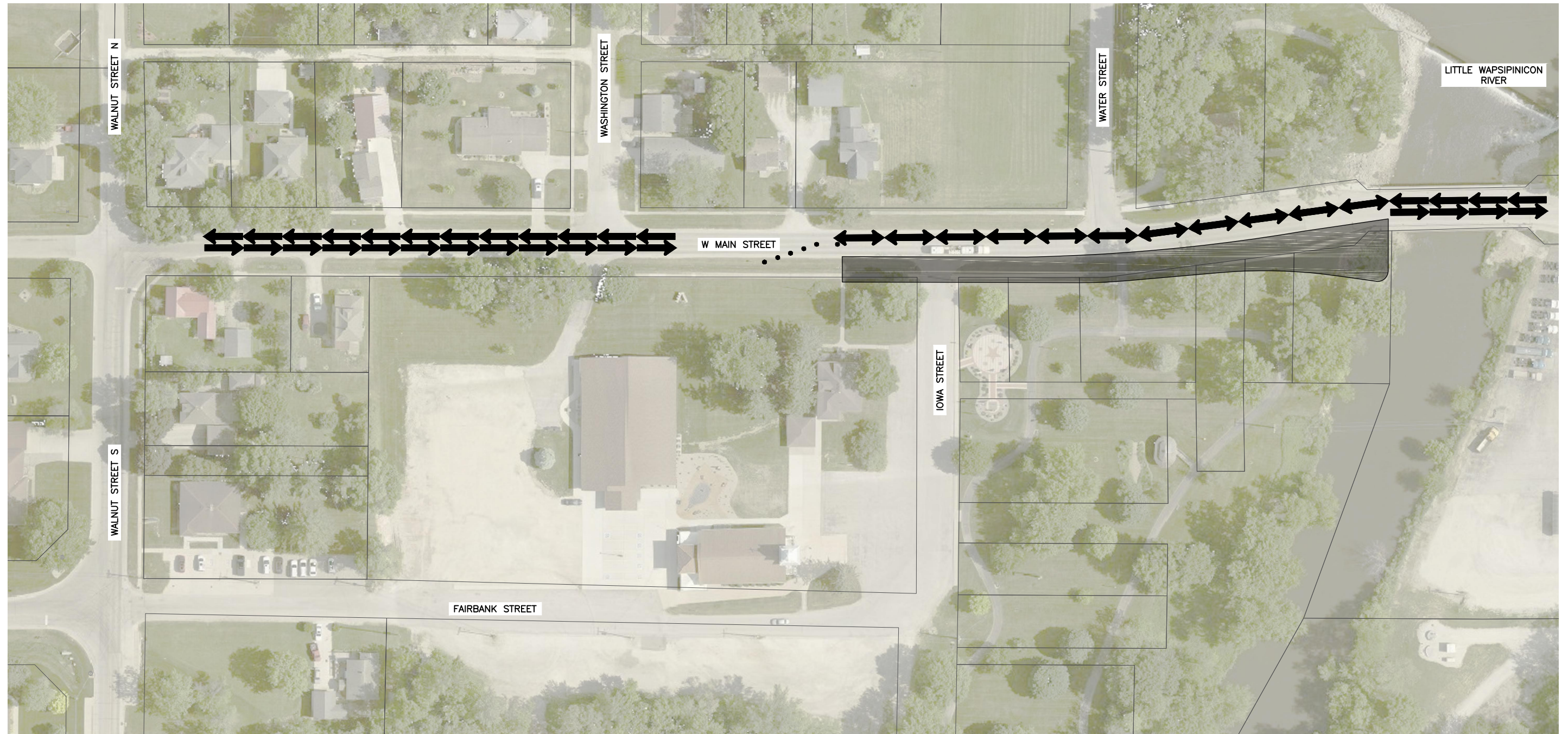
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REV. NO.	DESCRIPTION	DATE

DRAWING:
TRAFFIC CONTROL - STAGE 4

SET TYPE: BID LETTING
G:\C30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, J.11

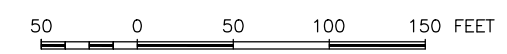
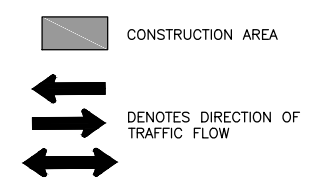
JOB NUMBER:
22-1100

SHEET NUMBER:
J.11



NOTE:
 1. REDUCE TRAFFIC TO ONE LANE PER TC-213 DURING WORK HOURS. TWO-WAY TRAVEL TO BE RESTORED AT THE END OF EACH WORK DAY AND TRAFFIC CONTROL TO BE SET UP PER TC-202.

LEGEND



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 FAIRBANK, IA 50629

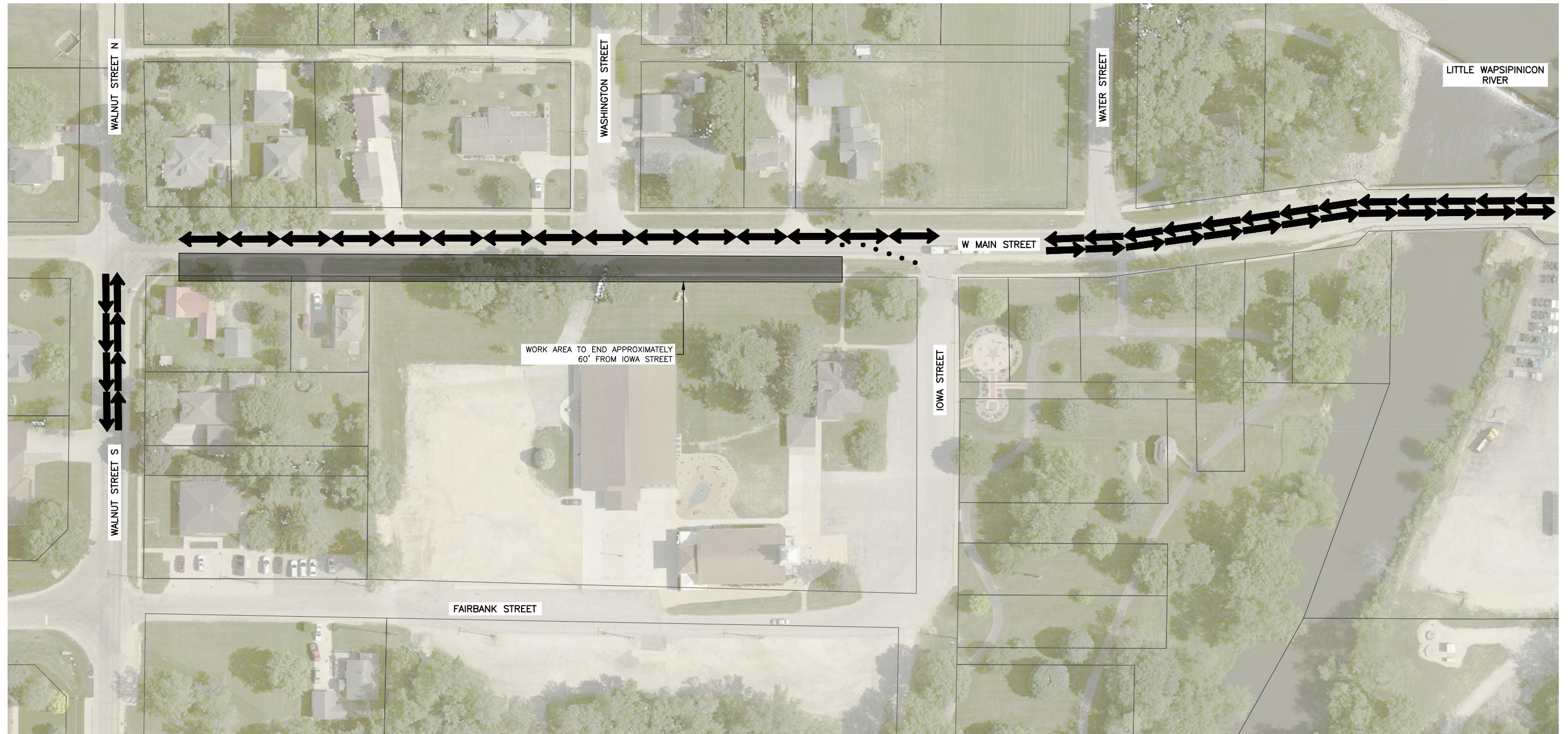
PROJECT AND LOCATION:
 MAIN STREET IMPROVEMENTS
 FAIRBANK, IOWA
 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 TRAFFIC CONTROL - STAGE 5
 SET TYPE: BID LETTING
G:\C30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, J.12

JOB NUMBER:
 22-1100
 SHEET NUMBER:
 J.12

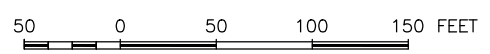


NOTE:
 1. REDUCE TRAFFIC TO ONE LANE PER TC-213 DURING WORK HOURS. TWO-WAY TRAVEL TO BE RESTORED AT THE END OF EACH WORK DAY AND TRAFFIC CONTROL TO BE SET UP PER TC-202.

LEGEND

CONSTRUCTION AREA

DENOTES DIRECTION OF TRAFFIC FLOW



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PROJECT AND LOCATION:
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 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

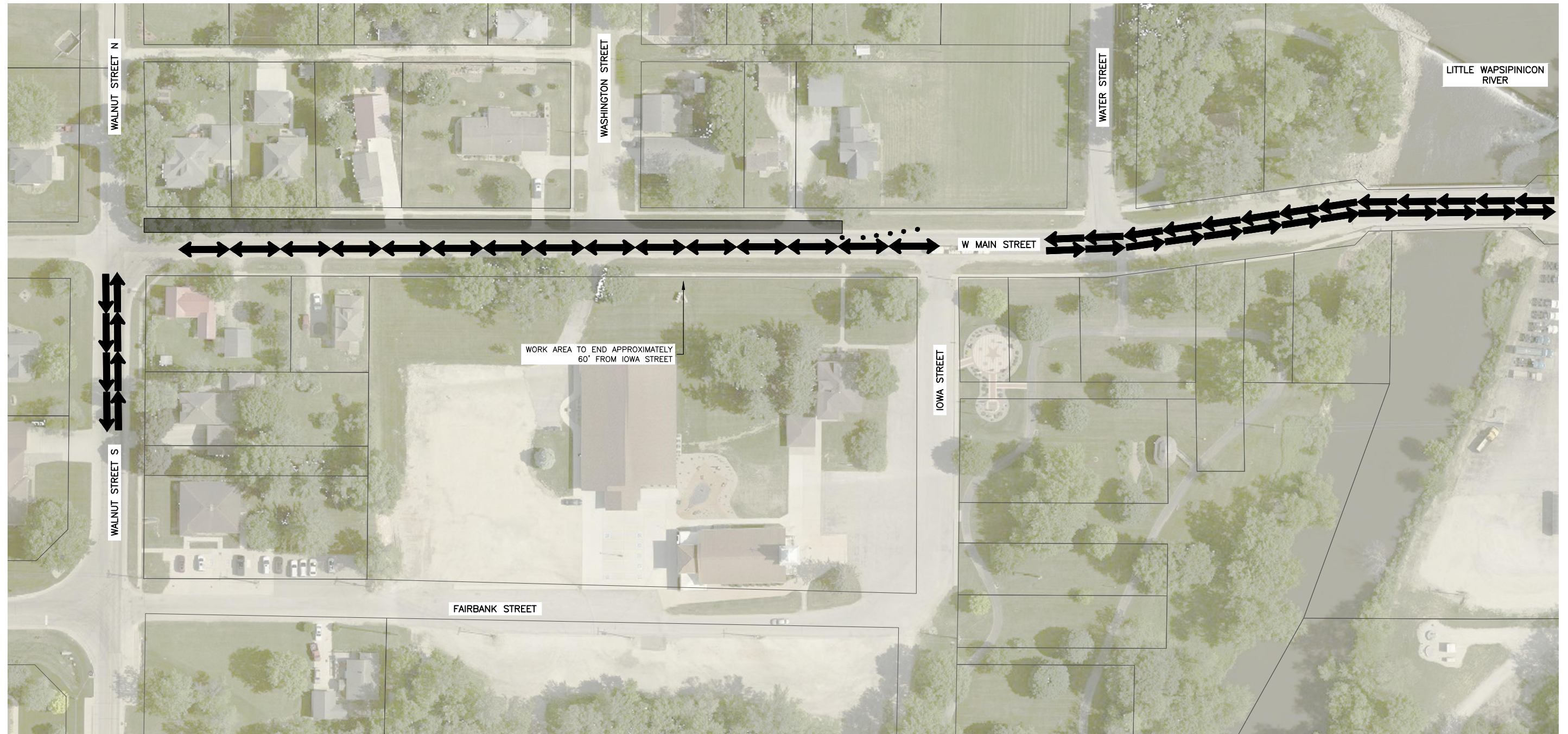
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 TRAFFIC CONTROL - STAGE 5

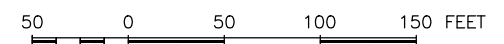
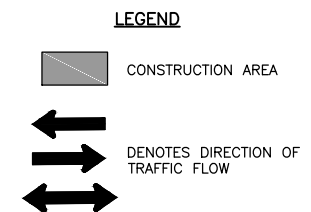
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JOB NUMBER:
 22-1100

SHEET NUMBER:
 J.13



NOTE:
 1. REDUCE TRAFFIC TO ONE LANE PER TC-213 DURING WORK HOURS. TWO-WAY TRAVEL TO BE RESTORED AT THE END OF EACH WORK DAY AND TRAFFIC CONTROL TO BE SET UP PER TC-202.



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PROJECT AND LOCATION:
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 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

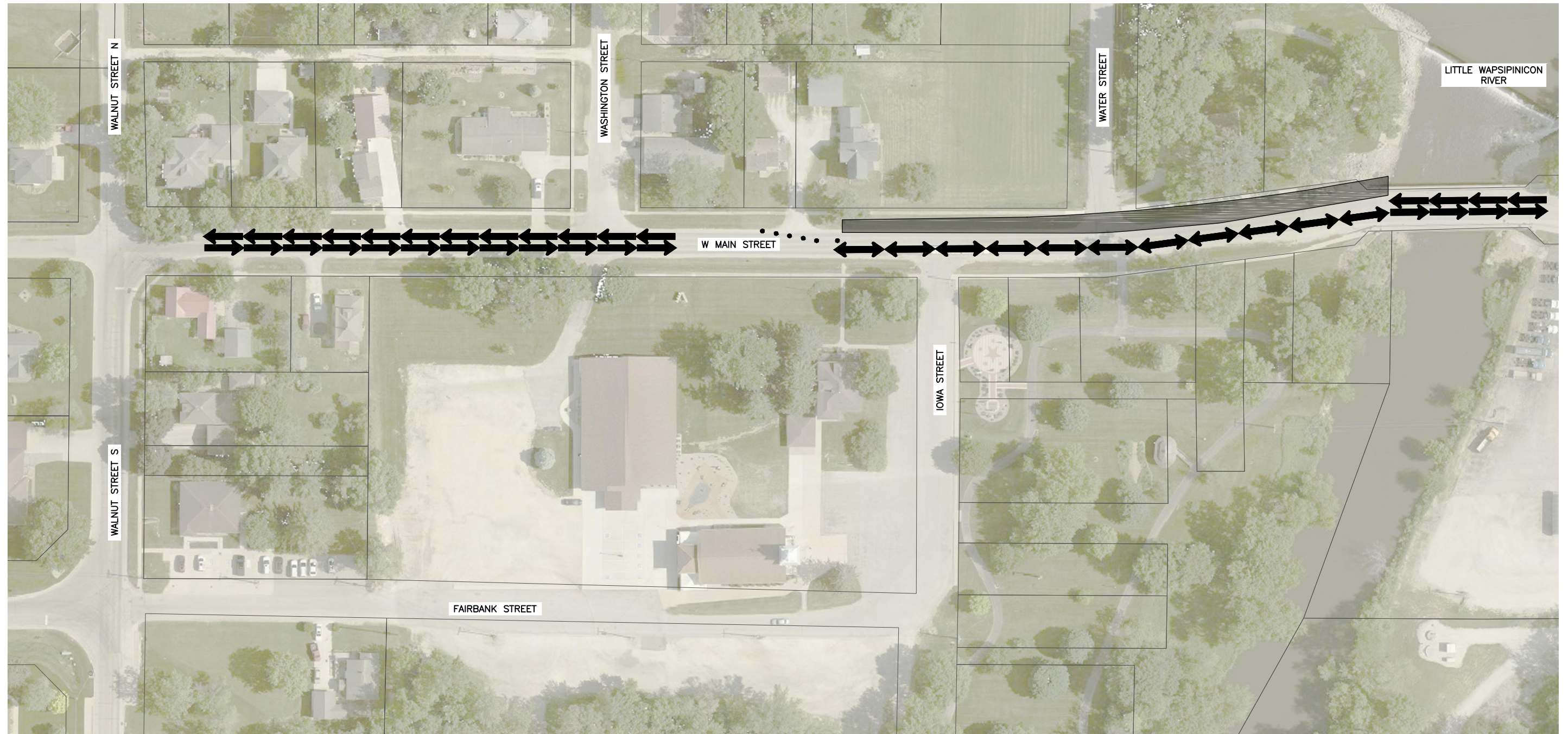
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 TRAFFIC CONTROL - STAGE 5

SET TYPE: BID LETTING
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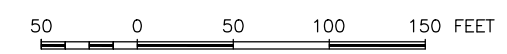
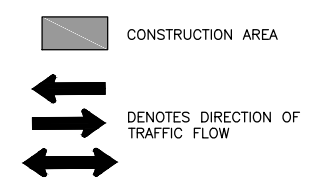
JOB NUMBER:
 22-1100

SHEET NUMBER:
 J.14



NOTE:
 1. REDUCE TRAFFIC TO ONE LANE PER TC-213 DURING WORK HOURS. TWO-WAY TRAVEL TO BE RESTORED AT THE END OF EACH WORK DAY AND TRAFFIC CONTROL TO BE SET UP PER TC-202.

LEGEND



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PROJECT AND LOCATION:
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 FAIRBANK, IOWA
 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

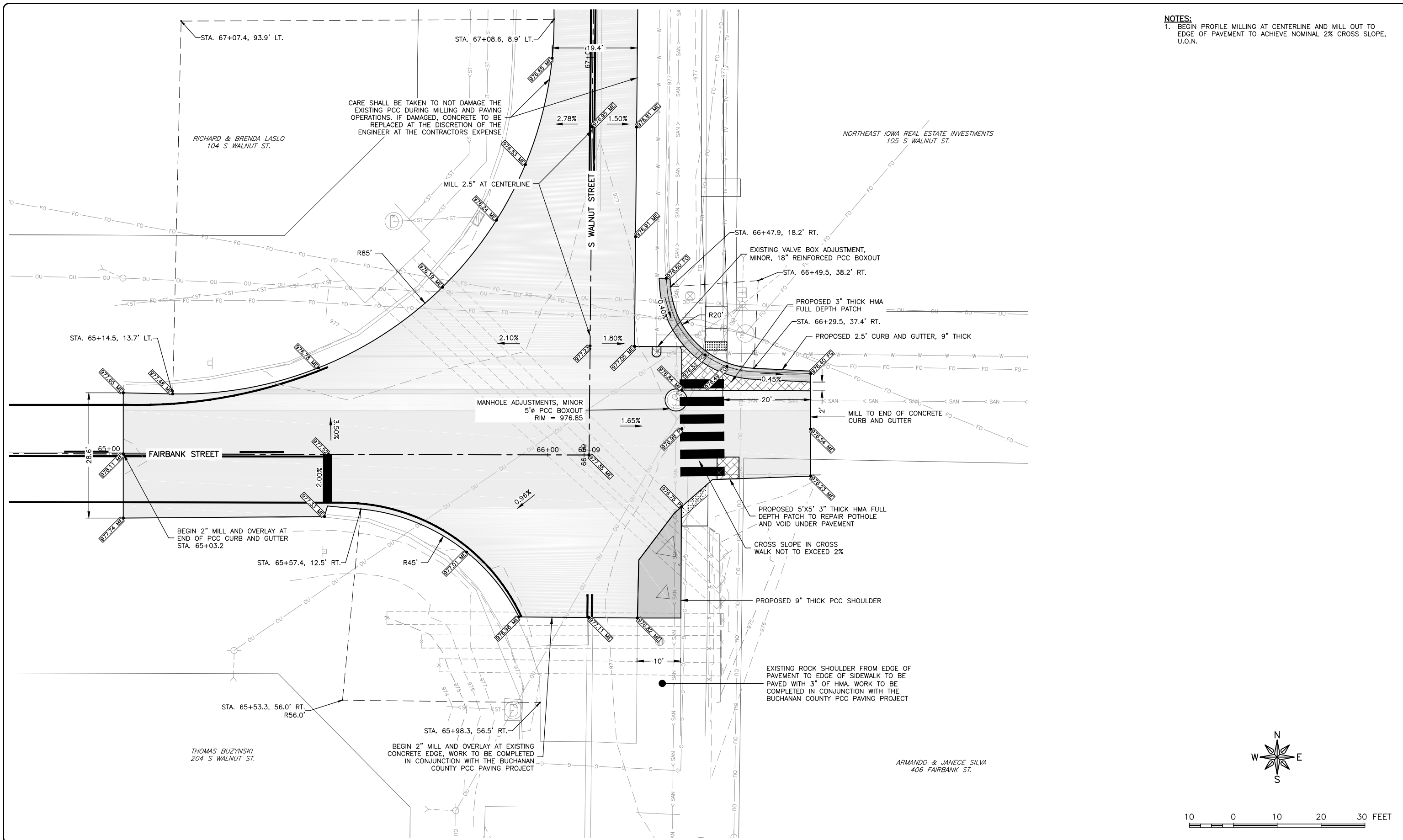
DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 TRAFFIC CONTROL - STAGE 5
 SET TYPE: BID LETTING
G:\C30\22\1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, J.15

JOB NUMBER:
 22-1100
 SHEET NUMBER:
 J.15

NOTES:
 1. BEGIN PROFILE MILLING AT CENTERLINE AND MILL OUT TO EDGE OF PAVEMENT TO ACHIEVE NOMINAL 2% CROSS SLOPE, U.O.N.



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 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

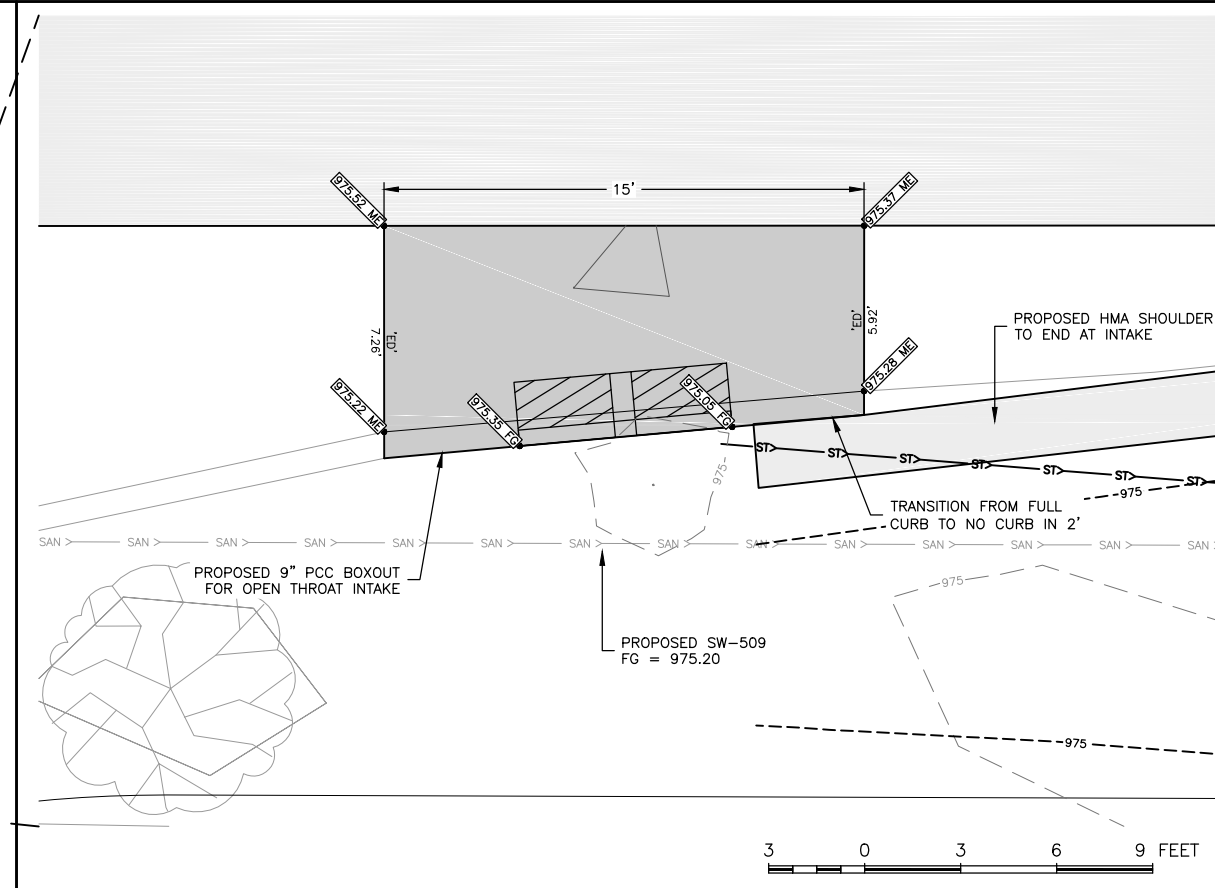
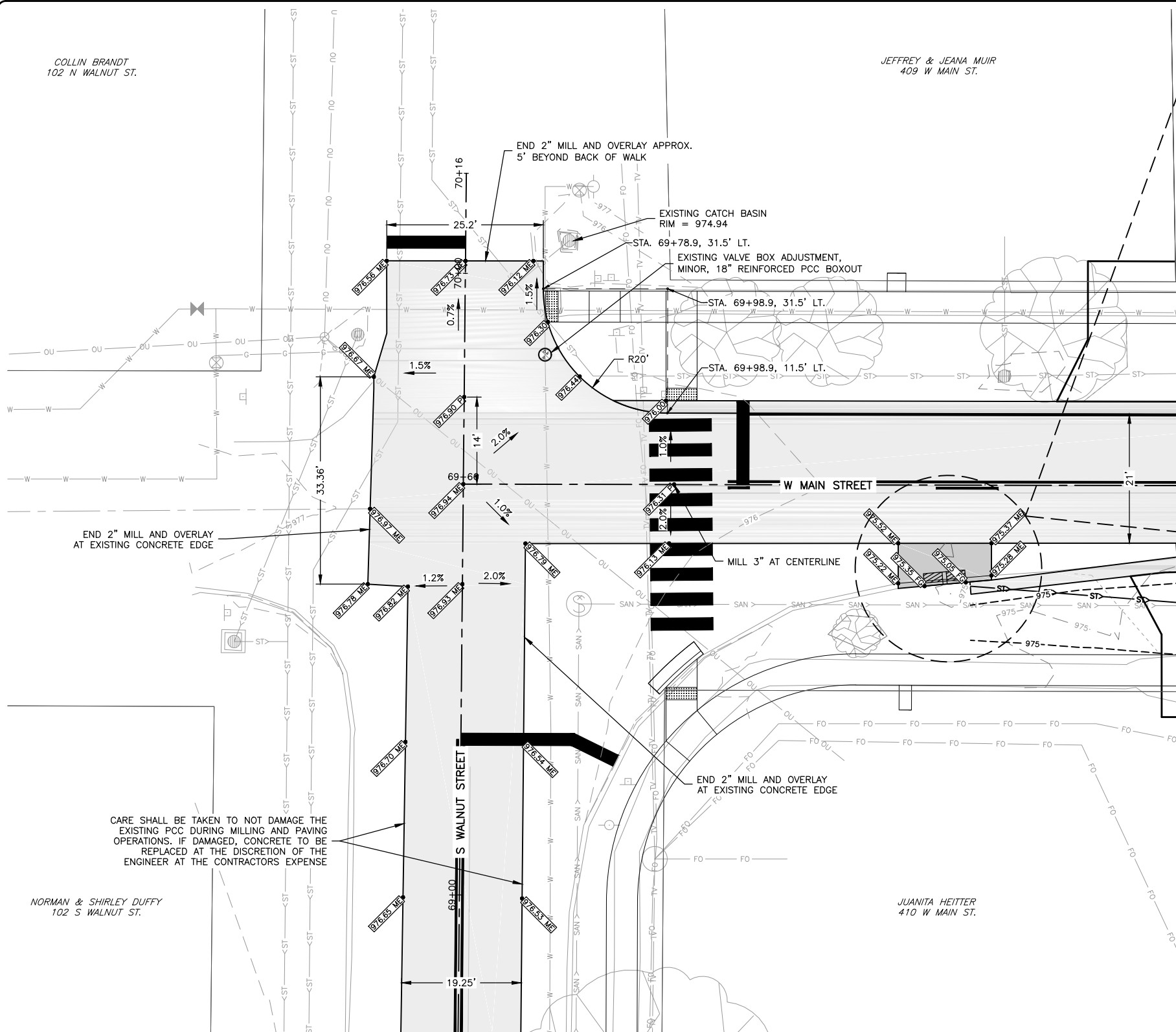
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 GEOMETRIC AND STAKING DETAILS -
 FAIRBANK ST. & WALNUT ST.
 SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L01

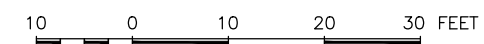
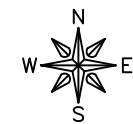
JOB NUMBER:
 22-1100
 SHEET NUMBER:
 L.01

COLLIN BRANDT
102 N WALNUT ST.

JEFFREY & JEANA MUIR
409 W MAIN ST.



NOTES:
1. BEGIN PROFILE MILLING AT CENTERLINE AND MILL OUT TO EDGE OF PAVEMENT TO ACHIEVE NOMINAL 2% CROSS SLOPE, U.O.N.



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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

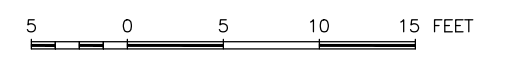
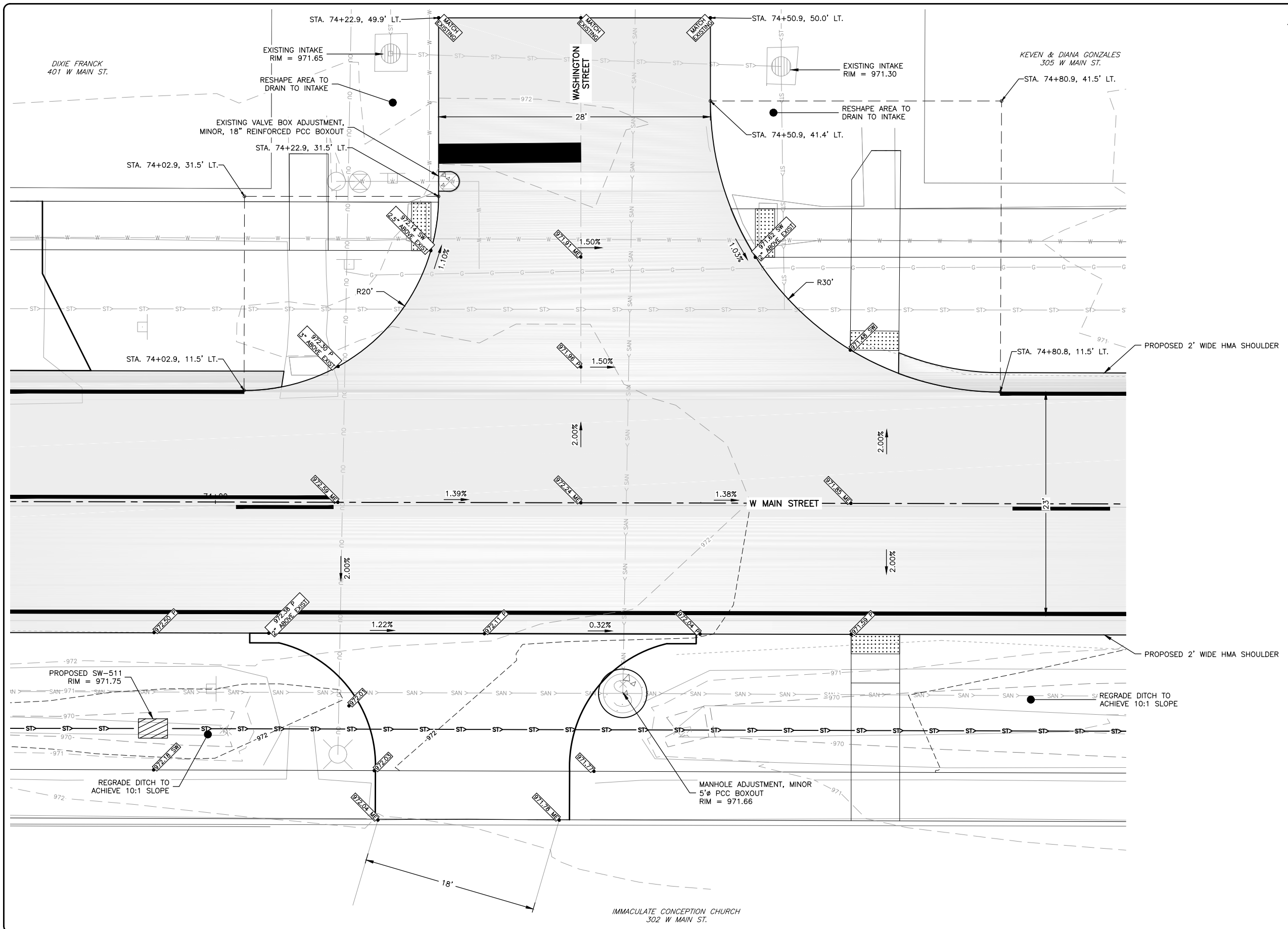
DRAWING:
GEOMETRIC AND STAKING DETAILS -
WALNUT ST. & W MAIN ST.

SET TYPE: BID LETTING
G:\C30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L02

JOB NUMBER:
22-1100

SHEET NUMBER:
L.02

NOTES:
 1. BEGIN PROFILE MILLING AT CENTERLINE AND MILL OUT TO EDGE OF PAVEMENT TO ACHIEVE NOMINAL 2% CROSS SLOPE, U.O.N.



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 FAIRBANK, IA 50629

PROJECT AND LOCATION:
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 FAIRBANK, IOWA
 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

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 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 GEOMETRIC AND STAKING DETAILS -
 WASHINGTON ST. & W MAIN ST.

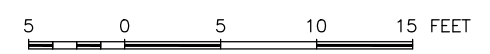
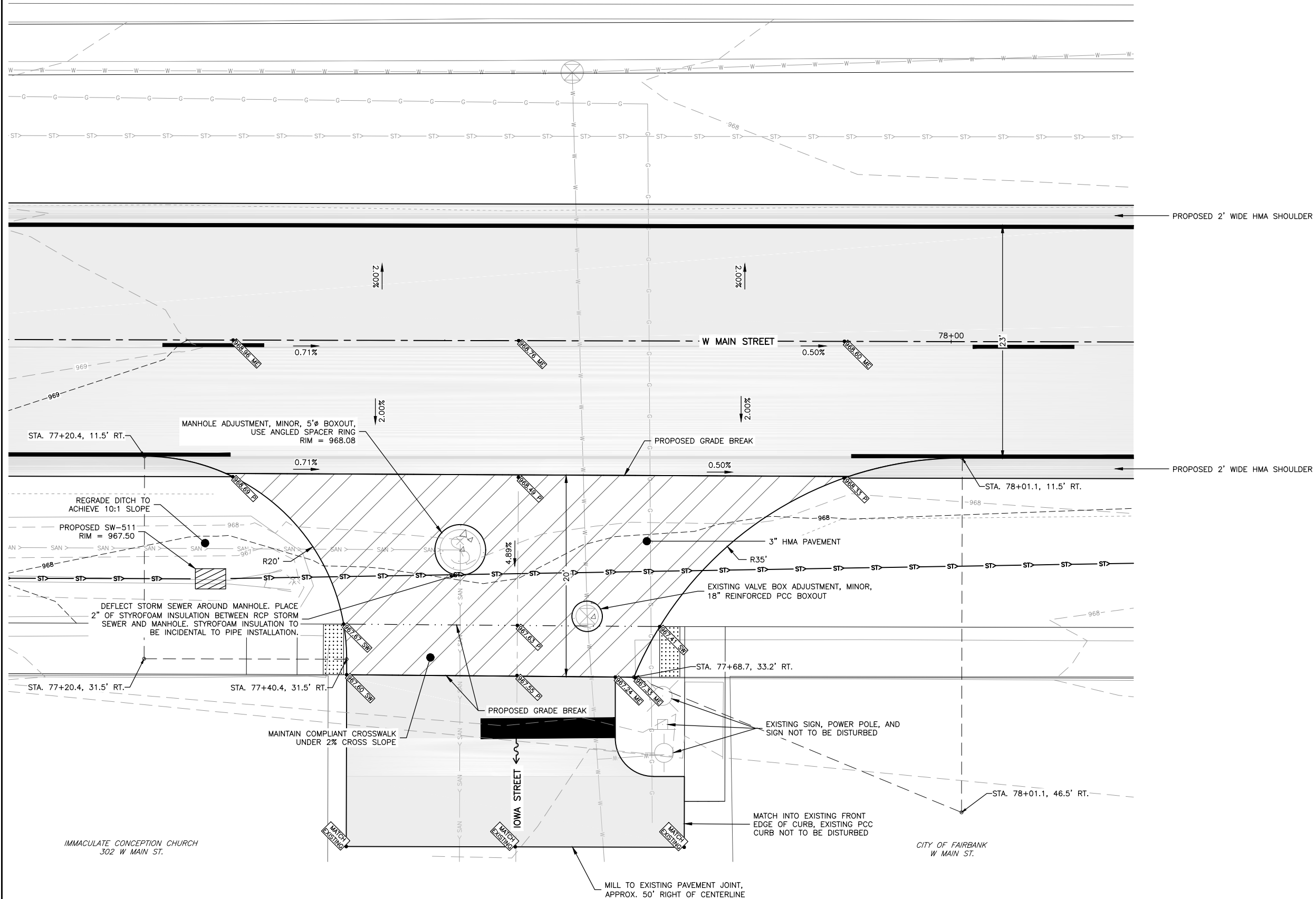
SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L03

JOB NUMBER:
 22-1100

SHEET NUMBER:
 L.03

ANDREW & TAYLOR SHAFFER
301 W MAIN ST.

NOTES:
1. BEGIN PROFILE MILLING AT CENTERLINE AND MILL OUT TO EDGE OF PAVEMENT TO ACHIEVE NOMINAL 2% CROSS SLOPE, U.O.N.



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FAIRBANK, IA 50629

PROJECT AND LOCATION:
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FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
GEOMETRIC AND STAKING DETAILS - IOWA
ST. & W MAIN ST.
SET TYPE: BID LETTING

JOB NUMBER:
22-1100
SHEET NUMBER:
L.04



NOTES:
 1. BEGIN PROFILE MILLING AT CENTERLINE AND MILL OUT TO EDGE OF PAVEMENT TO ACHIEVE NOMINAL 2% CROSS SLOPE, U.O.N.

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 FAIRBANK, IA 50629

PROJECT AND LOCATION:
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 FAIRBANK, IOWA
 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

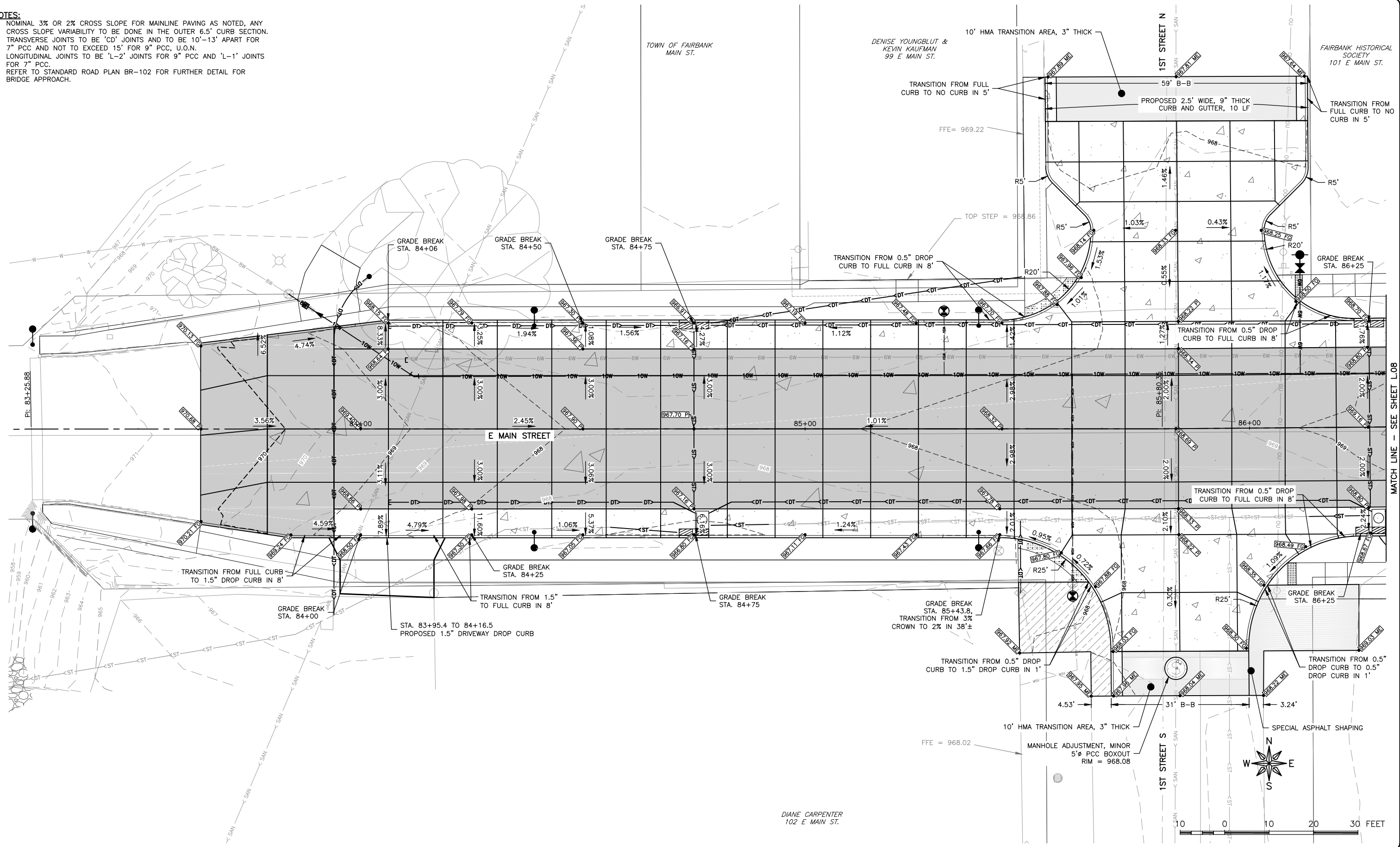
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 GEOMETRIC AND STAKING DETAILS – WATER
 ST. & W MAIN ST.
 SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L05

JOB NUMBER:
 22-1100
 SHEET NUMBER:
 L.05

NOTES:

1. NOMINAL 3% OR 2% CROSS SLOPE FOR MAINLINE PAVING AS NOTED, ANY CROSS SLOPE VARIABILITY TO BE DONE IN THE OUTER 6.5' CURB SECTION.
2. TRANSVERSE JOINTS TO BE 'CD' JOINTS AND TO BE 10'-13' APART FOR 7" PCC AND NOT TO EXCEED 15' FOR 9" PCC, U.O.N.
3. LONGITUDINAL JOINTS TO BE 'L-2' JOINTS FOR 9" PCC AND 'L-1' JOINTS FOR 7" PCC.
4. REFER TO STANDARD ROAD PLAN BR-102 FOR FURTHER DETAIL FOR BRIDGE APPROACH.



DIANE CARPENTER
102 E MAIN ST.

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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

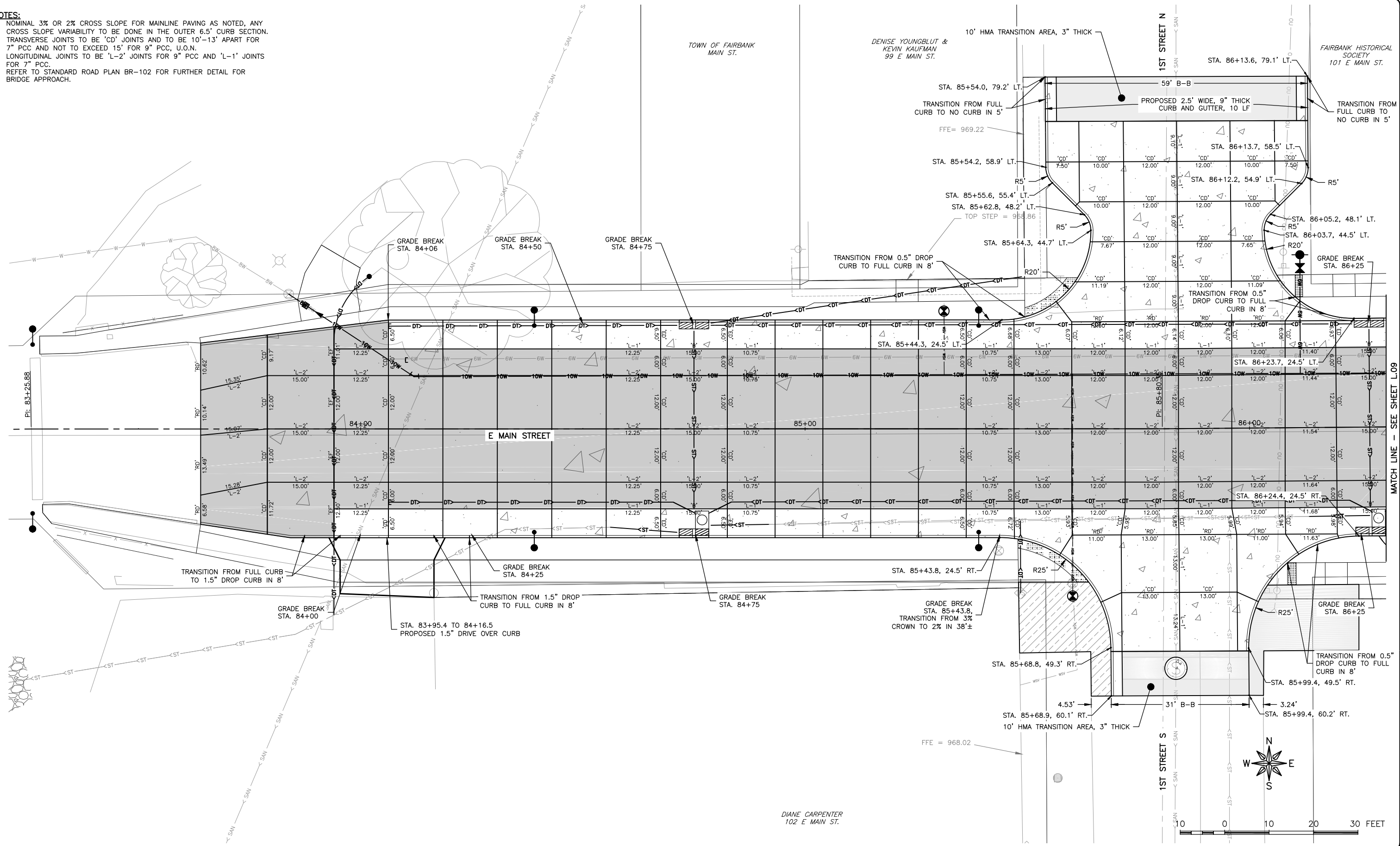
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
GEOMETRIC AND STAKING DETAILS - 1ST
ST. & E MAIN ST.
SET TYPE: BID LETTING
G:\C\2022\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L06

JOB NUMBER:
22-1100
SHEET NUMBER:
L06

NOTES:

1. NOMINAL 3% OR 2% CROSS SLOPE FOR MAINLINE PAVING AS NOTED, ANY CROSS SLOPE VARIABILITY TO BE DONE IN THE OUTER 6.5' CURB SECTION.
2. TRANSVERSE JOINTS TO BE 'CD' JOINTS AND TO BE 10'-13' APART FOR 7" PCC AND NOT TO EXCEED 15' FOR 9" PCC, U.O.N.
3. LONGITUDINAL JOINTS TO BE 'L-2' JOINTS FOR 9" PCC AND 'L-1' JOINTS FOR 7" PCC.
4. REFER TO STANDARD ROAD PLAN BR-102 FOR FURTHER DETAIL FOR BRIDGE APPROACH.



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FAIRBANK, IA 50629

PROJECT AND LOCATION:
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FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
JOINTING DETAILS - 1ST ST. & E MAIN ST.

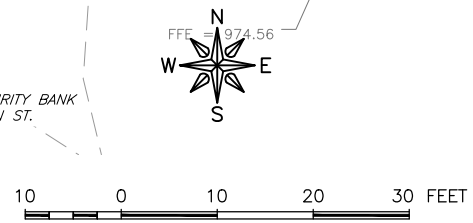
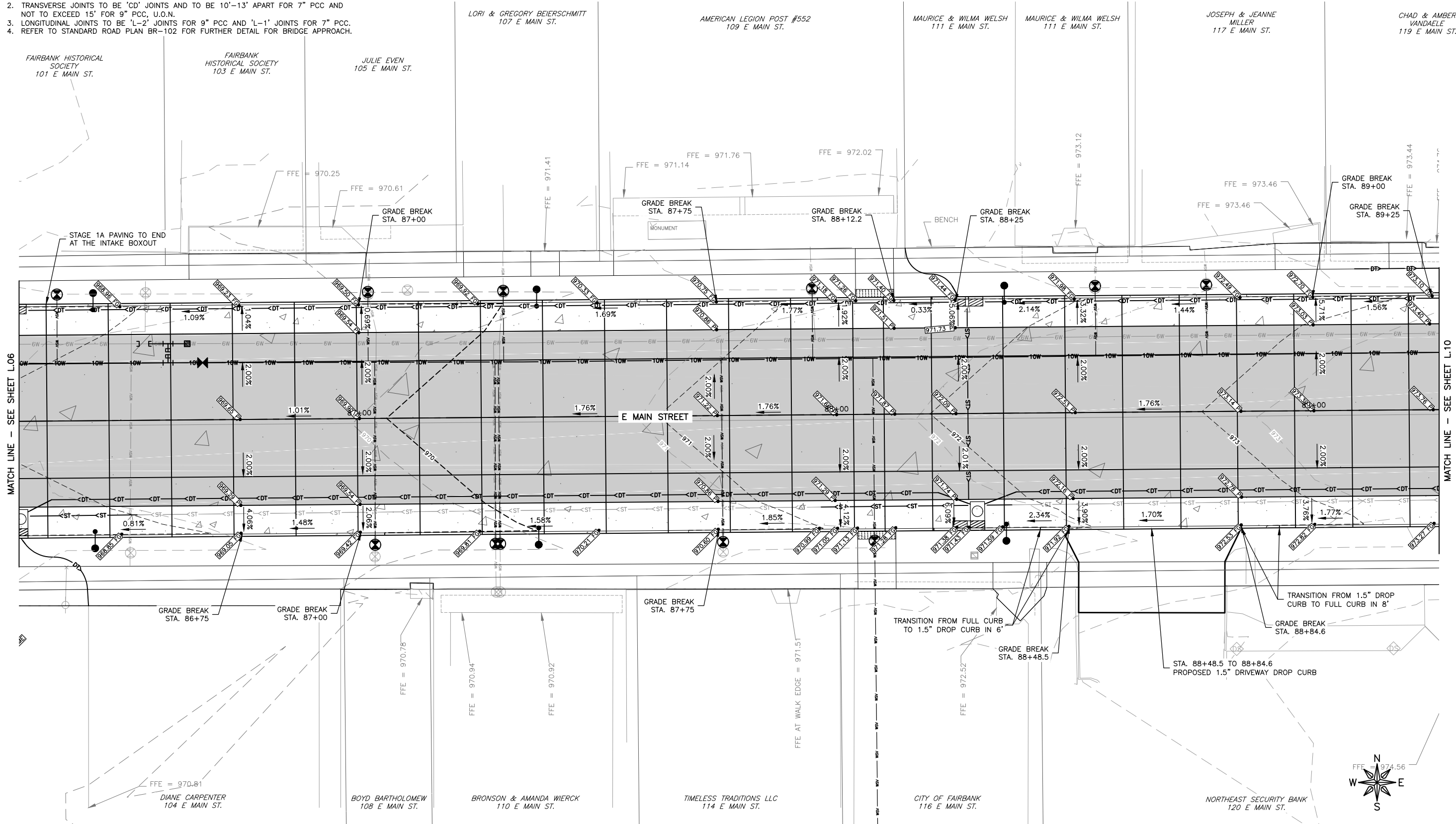
SET TYPE: BID LETTING

JOB NUMBER:
22-1100

SHEET NUMBER:
L.07

NOTES:

1. NOMINAL 3% OR 2% CROSS SLOPE FOR MAINLINE PAVING AS NOTED, ANY CROSS SLOPE VARIABILITY TO BE DONE IN THE OUTER 6.5' CURB SECTION.
2. TRANSVERSE JOINTS TO BE 'CD' JOINTS AND TO BE 10'-13' APART FOR 7" PCC AND NOT TO EXCEED 15' FOR 9" PCC, U.O.N.
3. LONGITUDINAL JOINTS TO BE 'L-2' JOINTS FOR 9" PCC AND 'L-1' JOINTS FOR 7" PCC.
4. REFER TO STANDARD ROAD PLAN BR-102 FOR FURTHER DETAIL FOR BRIDGE APPROACH.



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PROJECT AND LOCATION:
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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

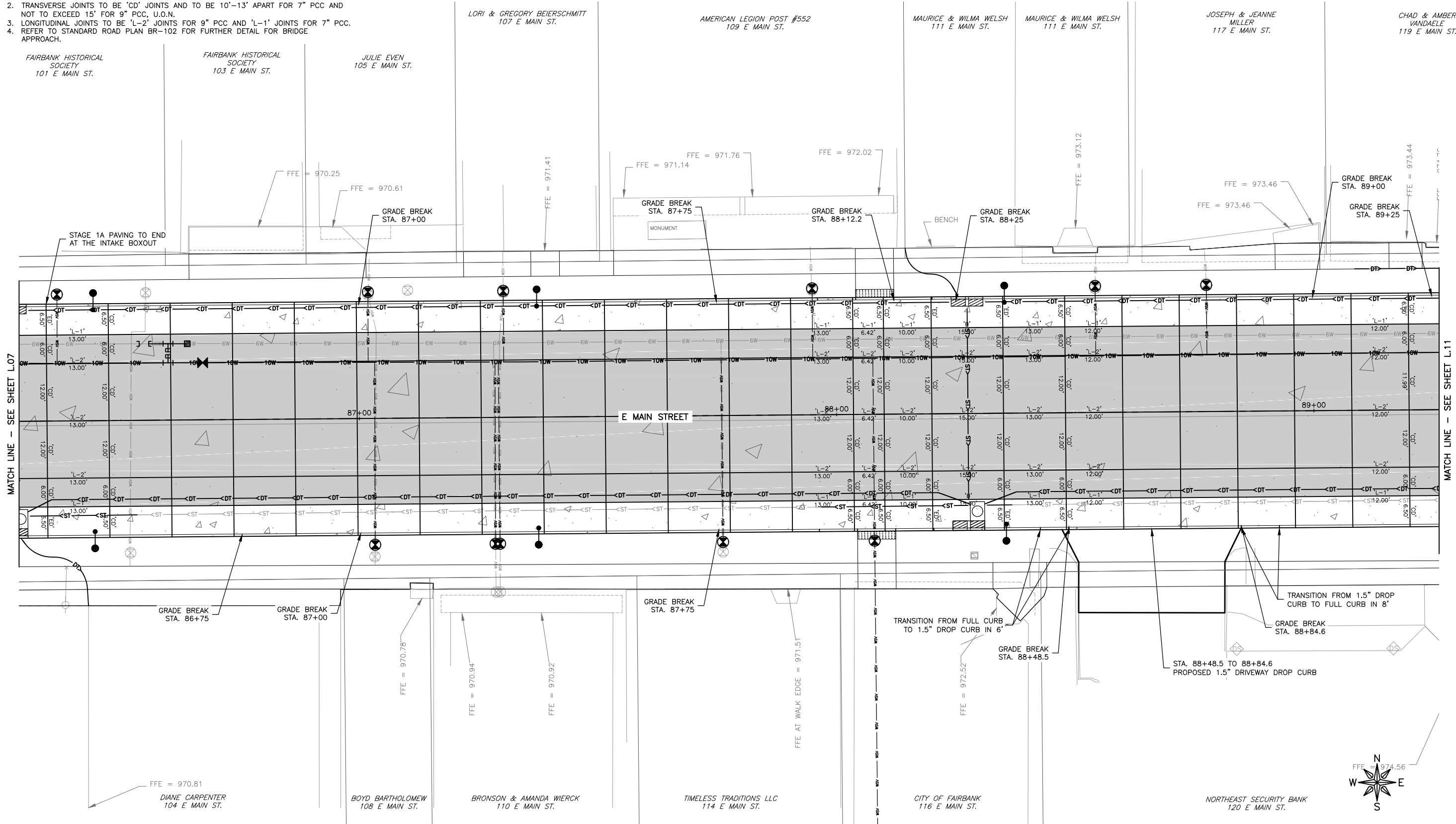
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
GEOMETRIC AND STAKING DETAILS - E
MAIN ST.
SET TYPE: BID LETTING

JOB NUMBER:
22-1100
SHEET NUMBER:
L.08

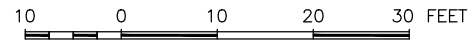
NOTES:

1. NOMINAL 3% OR 2% CROSS SLOPE FOR MAINLINE PAVING AS NOTED, ANY CROSS SLOPE VARIABILITY TO BE DONE IN THE OUTER 6.5' CURB SECTION.
2. TRANSVERSE JOINTS TO BE 'CD' JOINTS AND TO BE 10'-13' APART FOR 7" PCC AND NOT TO EXCEED 15' FOR 9" PCC, U.O.N.
3. LONGITUDINAL JOINTS TO BE 'L-2' JOINTS FOR 9" PCC AND 'L-1' JOINTS FOR 7" PCC.
4. REFER TO STANDARD ROAD PLAN BR-102 FOR FURTHER DETAIL FOR BRIDGE APPROACH.



MATCH LINE - SEE SHEET L.07

MATCH LINE - SEE SHEET L.11



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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
JOINTING DETAILS - E MAIN ST.

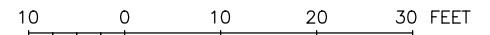
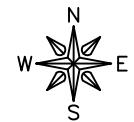
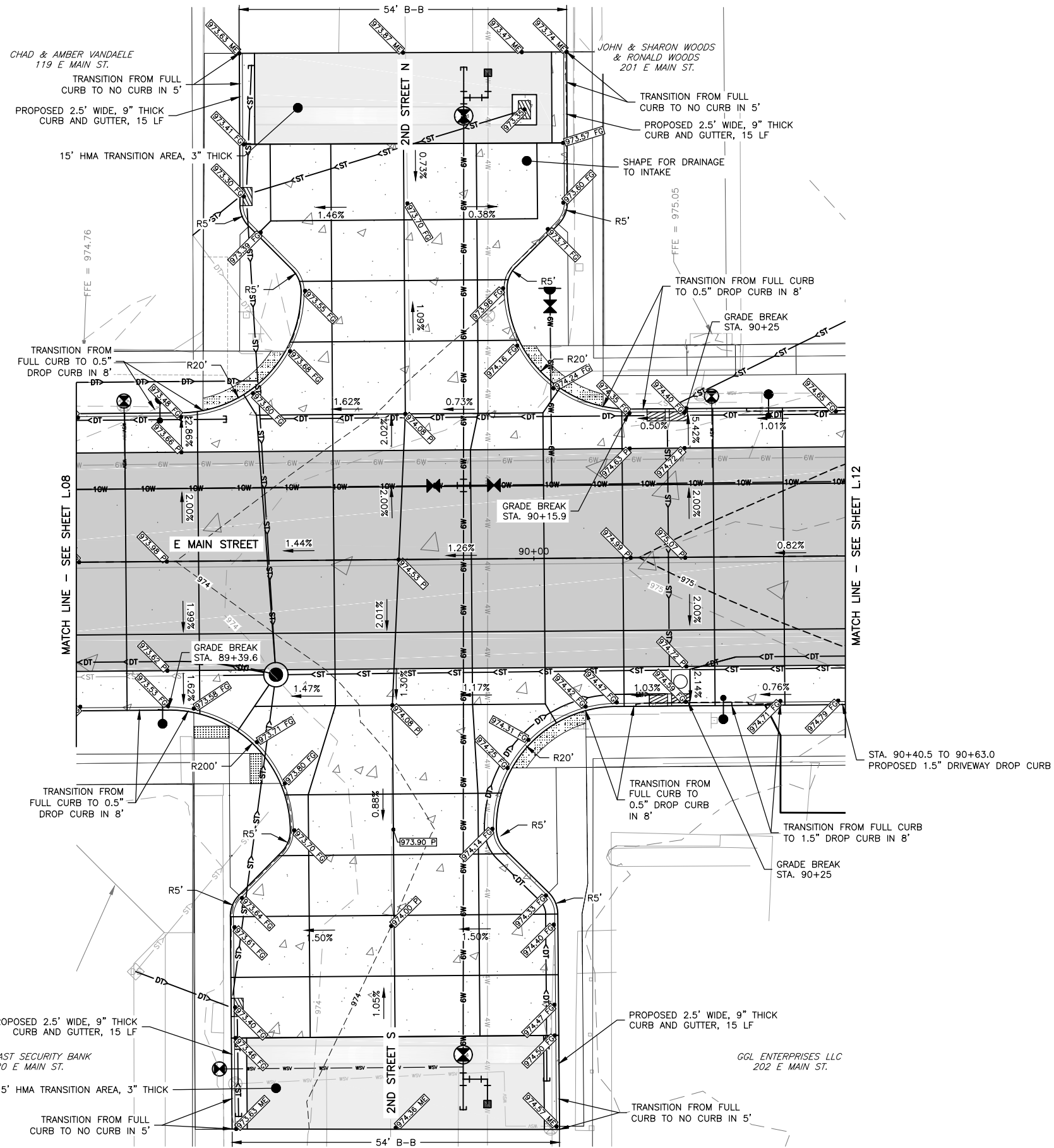
SET TYPE: BID LETTING

JOB NUMBER:
22-1100

SHEET NUMBER:
L.09

NOTES:

1. NOMINAL 3% OR 2% CROSS SLOPE FOR MAINLINE PAVING AS NOTED, ANY CROSS SLOPE VARIABILITY TO BE DONE IN THE OUTER 6.5' CURB SECTION.
2. TRANSVERSE JOINTS TO BE 'CD' JOINTS AND TO BE 10'-13' APART FOR 7" PCC AND NOT TO EXCEED 15' FOR 9" PCC, U.O.N.
3. LONGITUDINAL JOINTS TO BE 'L-2' JOINTS FOR 9" PCC AND 'L-1' JOINTS FOR 7" PCC.
4. REFER TO STANDARD ROAD PLAN BR-102 FOR FURTHER DETAIL FOR BRIDGE APPROACH.



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FAIRBANK, IA 50629

PROJECT AND LOCATION:
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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
GEOMETRIC AND STAKING DETAILS - 2ND
ST. & E MAIN ST.

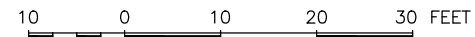
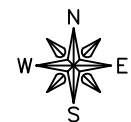
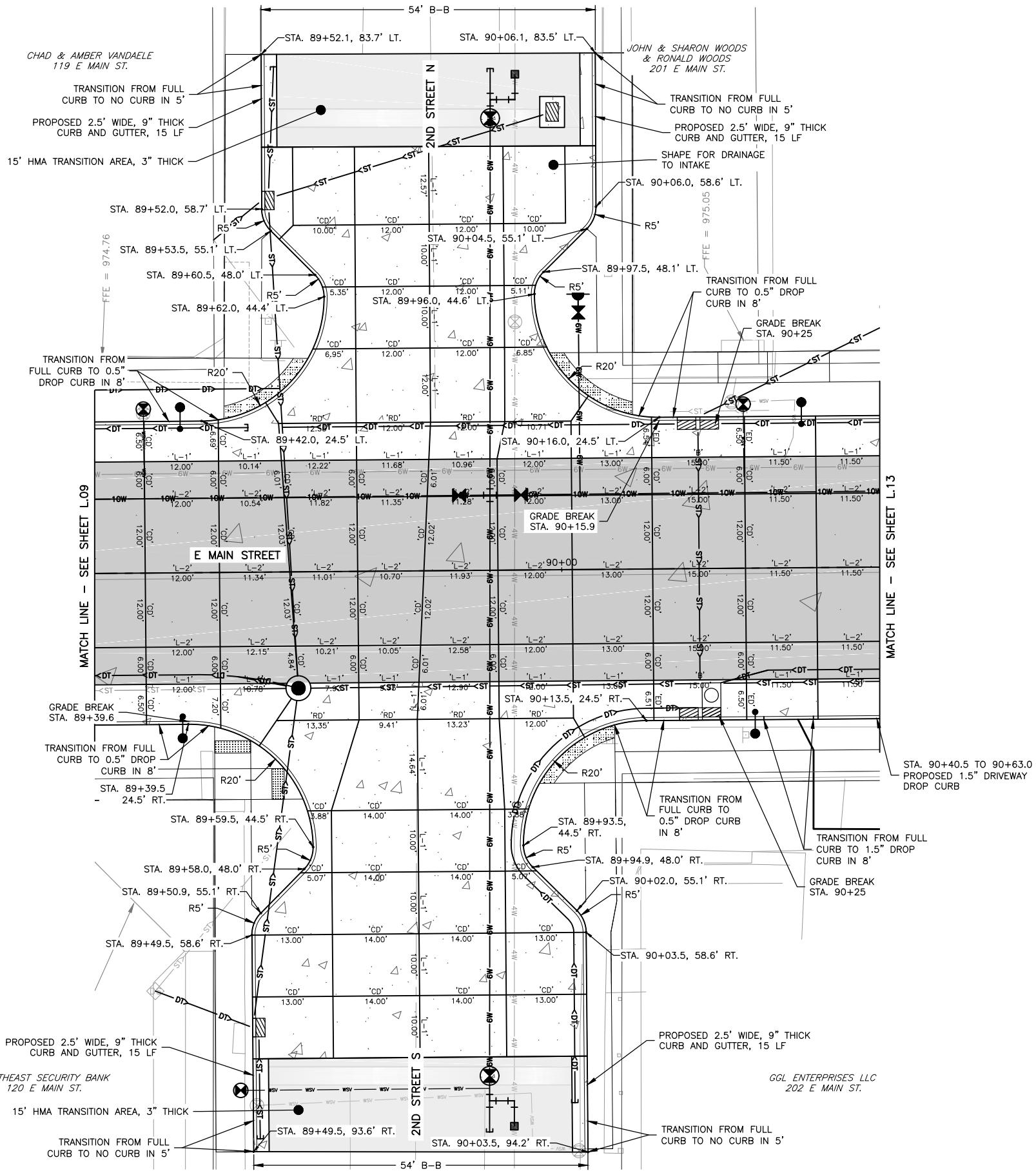
SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L10

JOB NUMBER:
22-1100

SHEET NUMBER:
L.10

NOTES:

1. NOMINAL 3% OR 2% CROSS SLOPE FOR MAINLINE PAVING AS NOTED, ANY CROSS SLOPE VARIABILITY TO BE DONE IN THE OUTER 6.5' CURB SECTION.
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3. LONGITUDINAL JOINTS TO BE 'L-2' JOINTS FOR 9" PCC AND 'L-1' JOINTS FOR 7" PCC.
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WISCONSIN

OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
JOINTING DETAILS - 2ND ST. & E MAIN ST.

SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L11

JOB NUMBER:
22-1100

SHEET NUMBER:
L.11

NOTES:

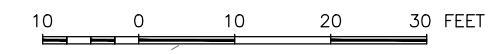
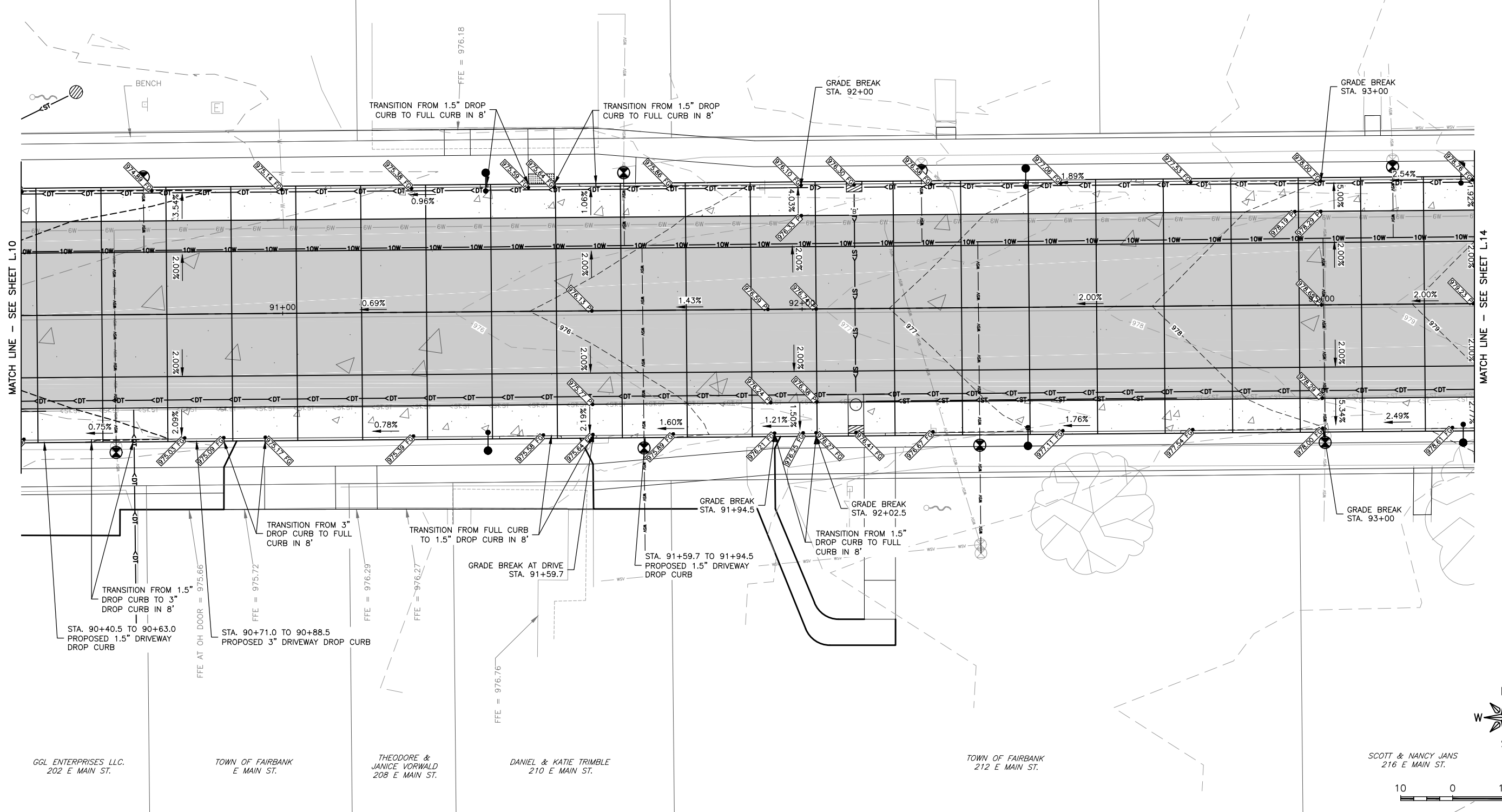
1. NOMINAL 3% OR 2% CROSS SLOPE FOR MAINLINE PAVING AS NOTED, ANY CROSS SLOPE VARIABILITY TO BE DONE IN THE OUTER 6.5' CURB SECTION.
2. TRANSVERSE JOINTS TO BE 'CD' JOINTS AND TO BE 10'-13' APART FOR 7" PCC AND NOT TO EXCEED 15' FOR 9" PCC, U.O.N.
3. LONGITUDINAL JOINTS TO BE 'L-2' JOINTS FOR 9" PCC AND 'L-1' JOINTS FOR 7" PCC.
4. REFER TO STANDARD ROAD PLAN BR-102 FOR FURTHER DETAIL FOR BRIDGE APPROACH.

PEGGI SUCKOW
209 E MAIN ST.

BROCK ZARUBA
213 E MAIN ST.

JEFFREY RYANT
217 E MAIN ST.

CITY OF FAIRBANK
E MAIN ST.



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
GEOMETRIC AND STAKING DETAILS - E
MAIN ST.
SET TYPE: BID LETTING
G:\30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L12

JOB NUMBER:
22-1100
SHEET NUMBER:
L.12

NOTES:

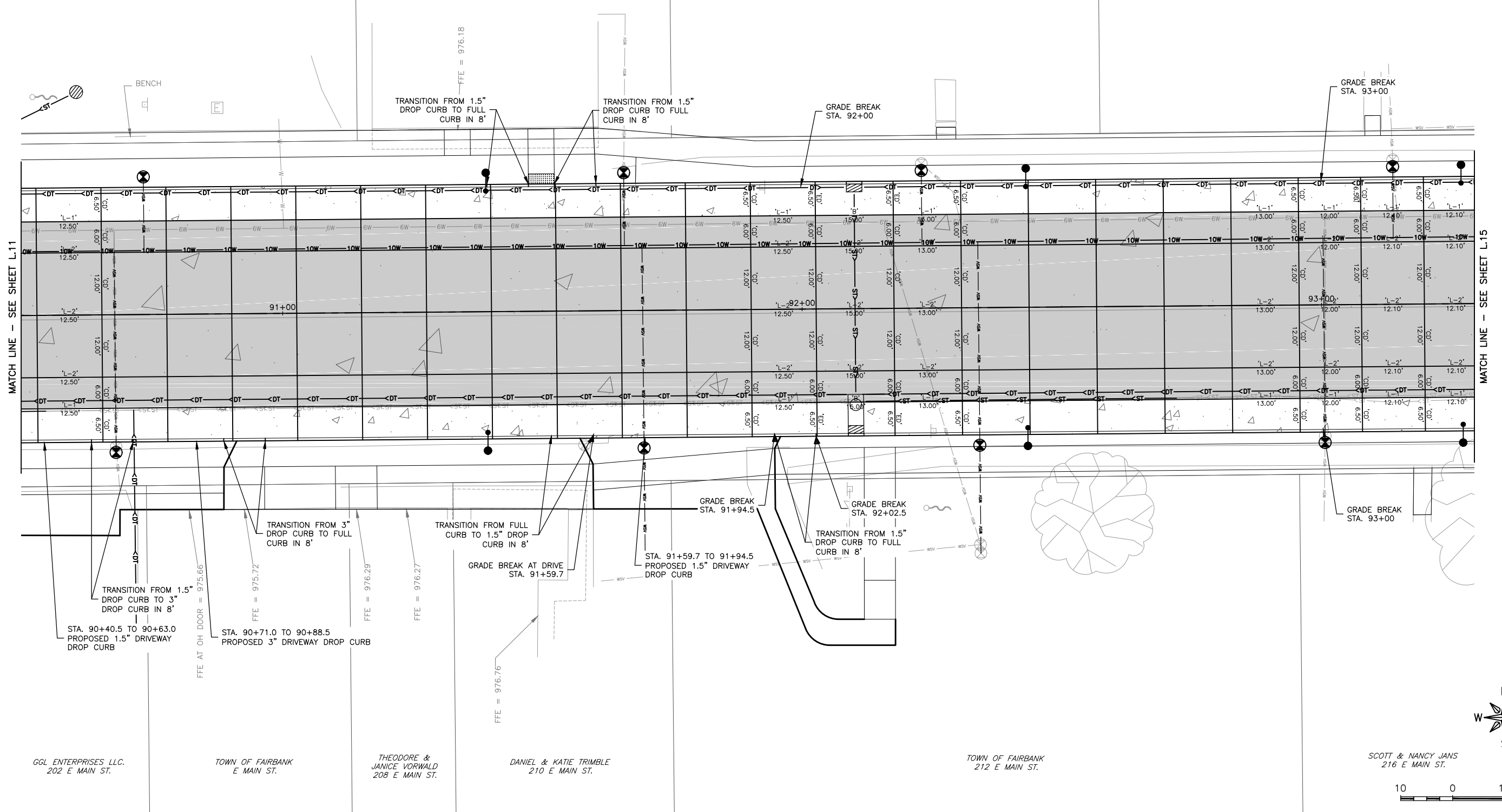
1. NOMINAL 3% OR 2% CROSS SLOPE FOR MAINLINE PAVING AS NOTED, ANY CROSS SLOPE VARIABILITY TO BE DONE IN THE OUTER 6.5' CURB SECTION.
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3. LONGITUDINAL JOINTS TO BE 'L-2' JOINTS FOR 9" PCC AND 'L-1' JOINTS FOR 7" PCC.
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PEGGI SUCKOW
209 E MAIN ST.

BROCK ZARUBA
213 E MAIN ST.

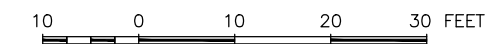
JEFFREY RYANT
217 E MAIN ST.

CITY OF FAIRBANK
E MAIN ST.



MATCH LINE - SEE SHEET L.11

MATCH LINE - SEE SHEET L.15



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
JOINTING DETAILS - E MAIN ST.

SET TYPE: BID LETTING

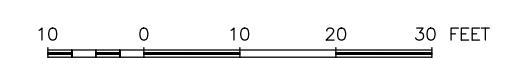
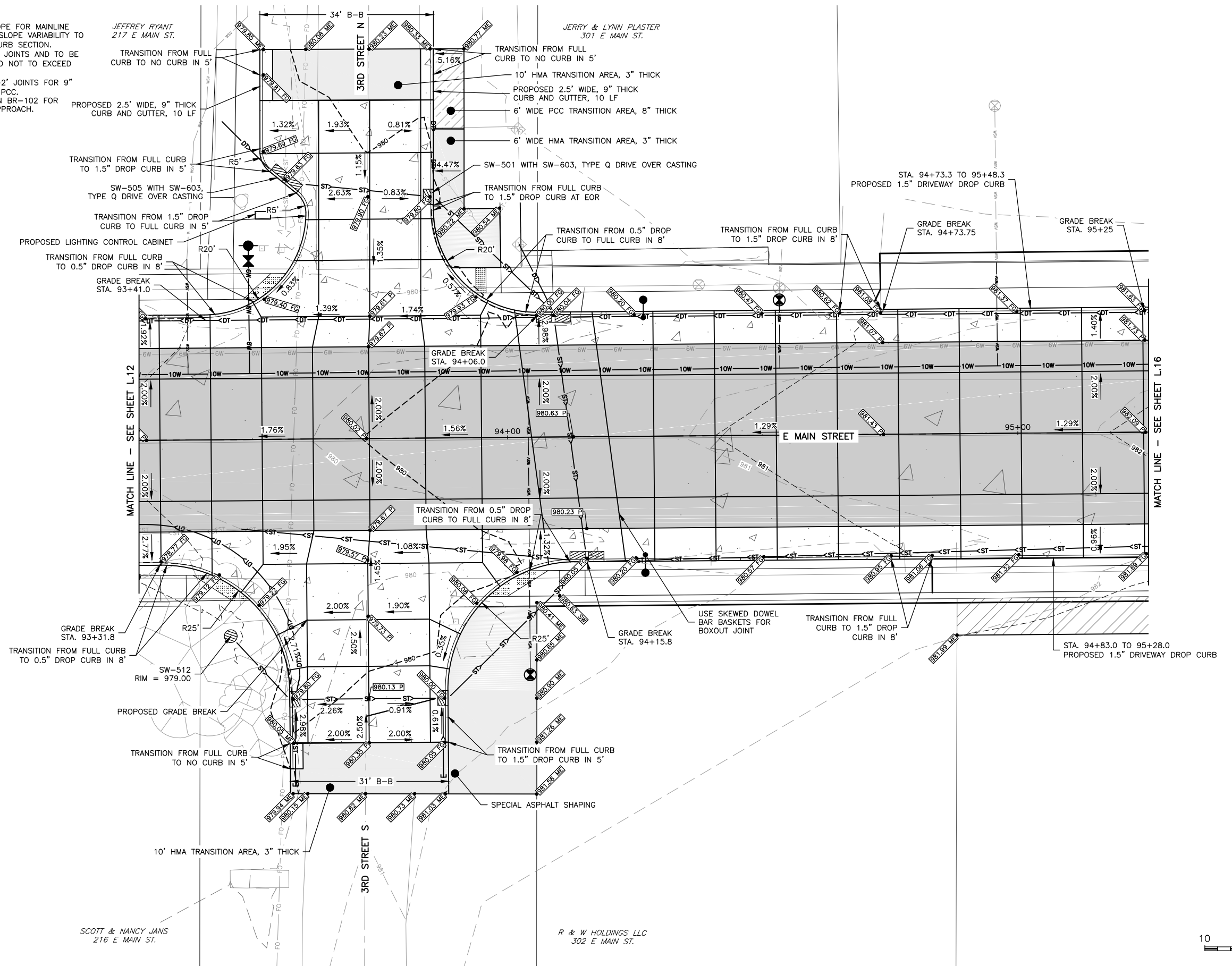
G:\30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L13

JOB NUMBER:
22-1100

SHEET NUMBER:
L.13

NOTES:

1. NOMINAL 3% OR 2% CROSS SLOPE FOR MAINLINE PAVING AS NOTED, ANY CROSS SLOPE VARIABILITY TO BE DONE IN THE OUTER 6.5' CURB SECTION.
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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

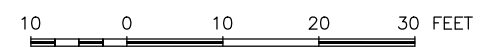
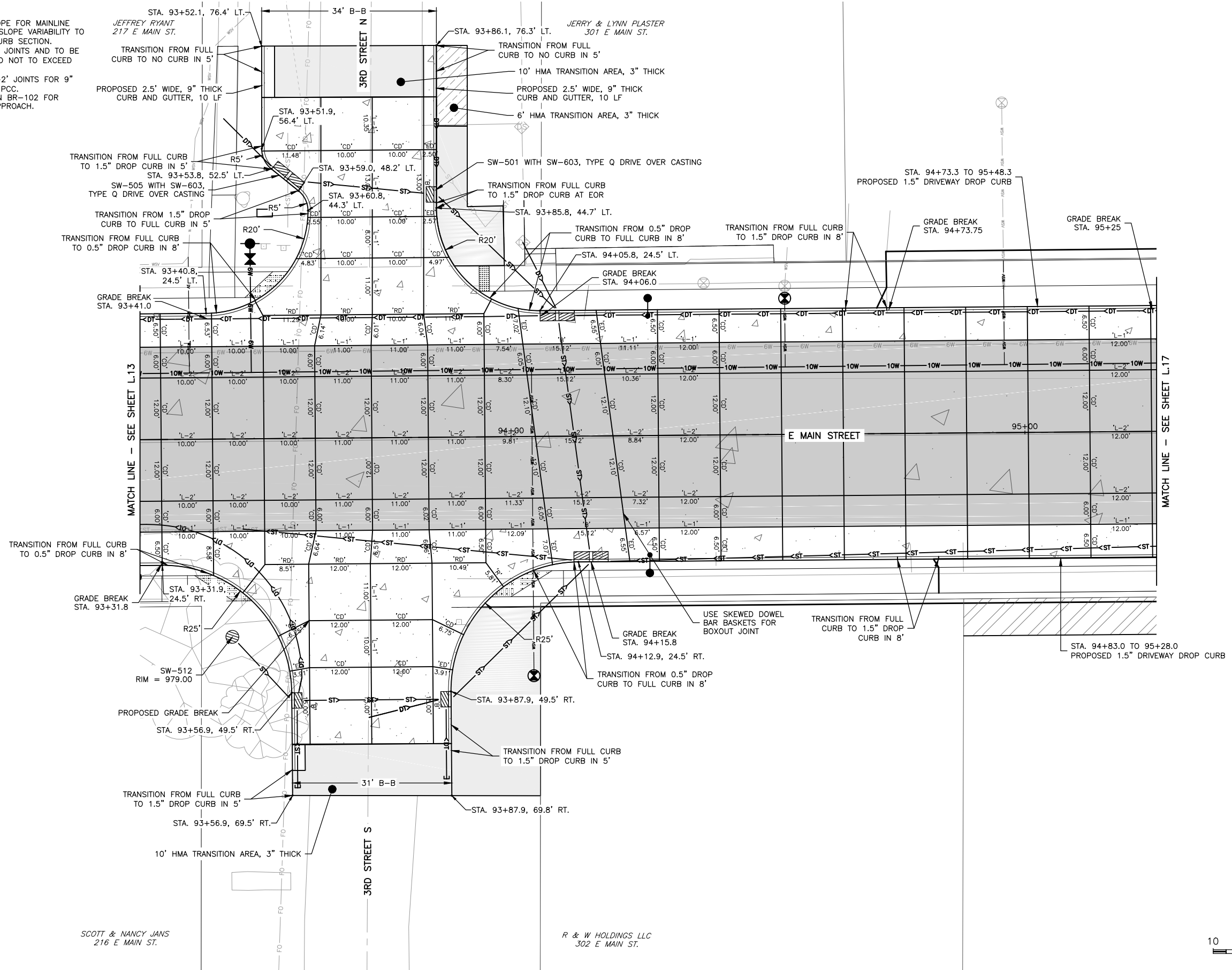
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
GEOMETRIC AND STAKING DETAILS - 3RD ST. & E MAIN ST.
SET TYPE: BID LETTING
G:\30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L14

JOB NUMBER:
22-1100
SHEET NUMBER:
L.14

NOTES:

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3. LONGITUDINAL JOINTS TO BE 'L-2' JOINTS FOR 9" PCC AND 'L-1' JOINTS FOR 7" PCC.
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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
JOINTING DETAILS - 3RD ST. & E MAIN ST.
SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L15

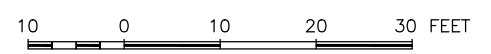
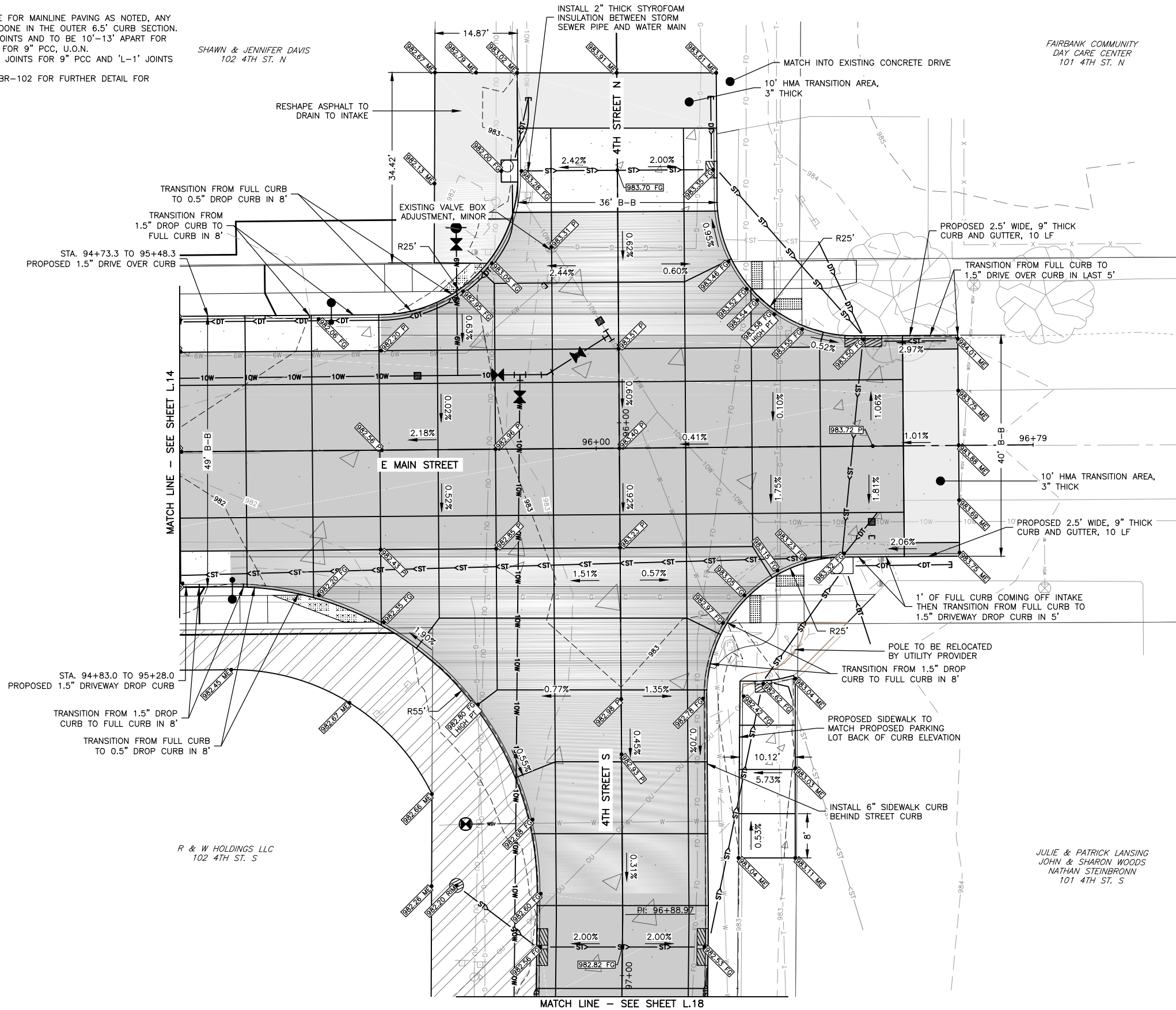
JOB NUMBER:
22-1100
SHEET NUMBER:
L.15

NOTES:

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3. LONGITUDINAL JOINTS TO BE 'L-2' JOINTS FOR 9" PCC AND 'L-1' JOINTS FOR 7" PCC.
4. REFER TO STANDARD ROAD PLAN BR-102 FOR FURTHER DETAIL FOR BRIDGE APPROACH.

SHAWN & JENNIFER DAVIS
102 4TH ST. N

FAIRBANK COMMUNITY
DAY CARE CENTER
101 4TH ST. N



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

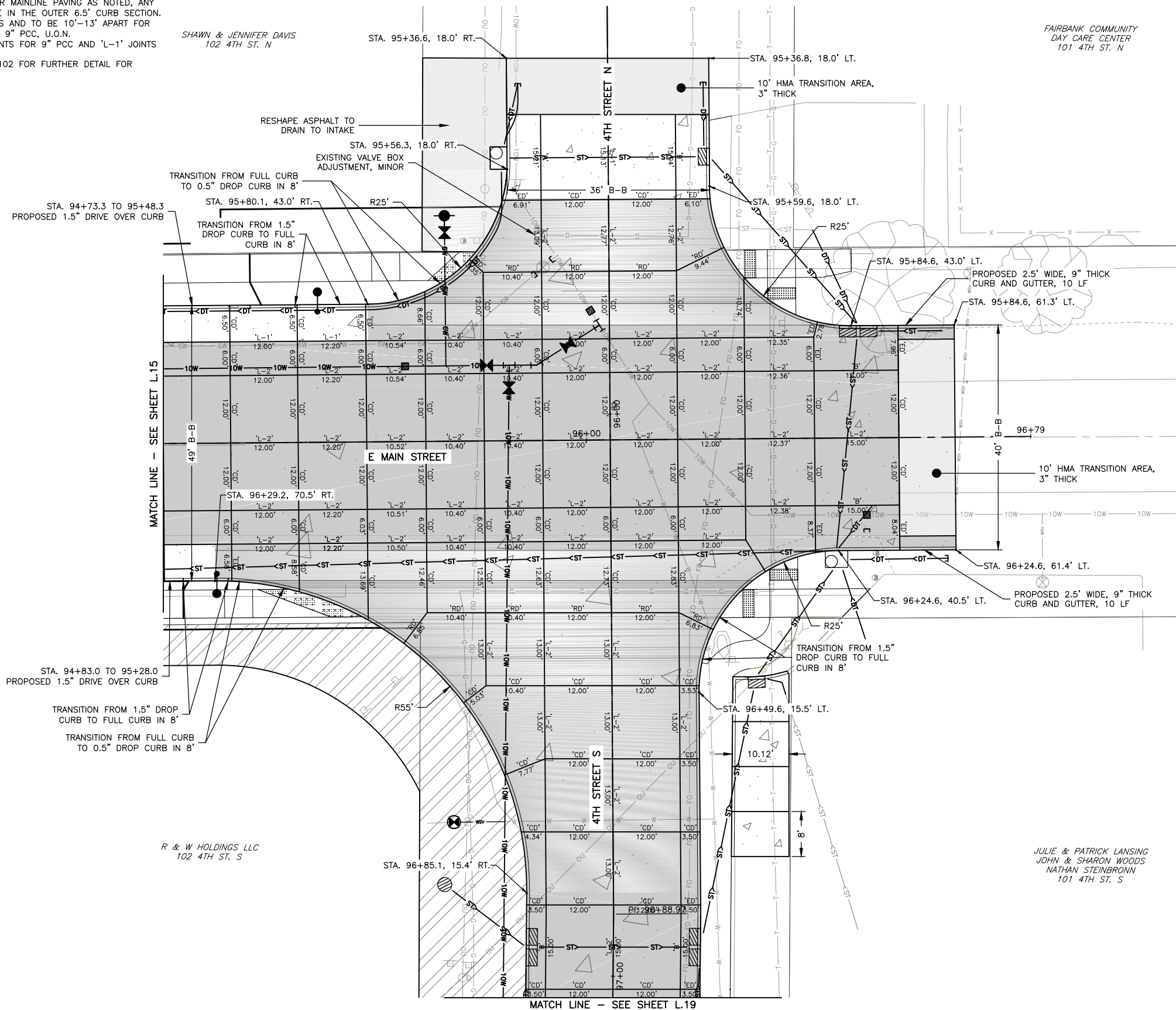
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
GEOMETRIC AND STAKING DETAILS - 4TH ST. & E MAIN ST.
SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L16

JOB NUMBER:
22-1100
SHEET NUMBER:
L.16

NOTES:

1. NOMINAL 3% OR 2% CROSS SLOPE FOR MAINLINE PAVING AS NOTED, ANY CROSS SLOPE VARIABILITY TO BE DONE IN THE OUTER 6.5' CURB SECTION.
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3. LONGITUDINAL JOINTS TO BE 'L-2' JOINTS FOR 9" PCC AND 'L-1' JOINTS FOR 7" PCC.
4. REFER TO STANDARD ROAD PLAN BR-102 FOR FURTHER DETAIL FOR BRIDGE APPROACH.



SHAWN & JENNIFER DAVIS
102 4TH ST. N

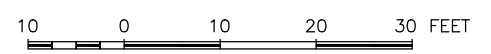
FAIRBANK COMMUNITY
DAY CARE CENTER
101 4TH ST. N

MATCH LINE - SEE SHEET L.15

MATCH LINE - SEE SHEET L.19

R & W HOLDINGS LLC
102 4TH ST. S

JULIE & PATRICK LANSING
JOHN & SHARON WOODS
NATHAN STEINBRONN
101 4TH ST. S



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
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116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
JOINTING DETAILS - 4TH ST. & E MAIN ST.

SET TYPE: BID LETTING

G:\30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L17

JOB NUMBER:
22-1100

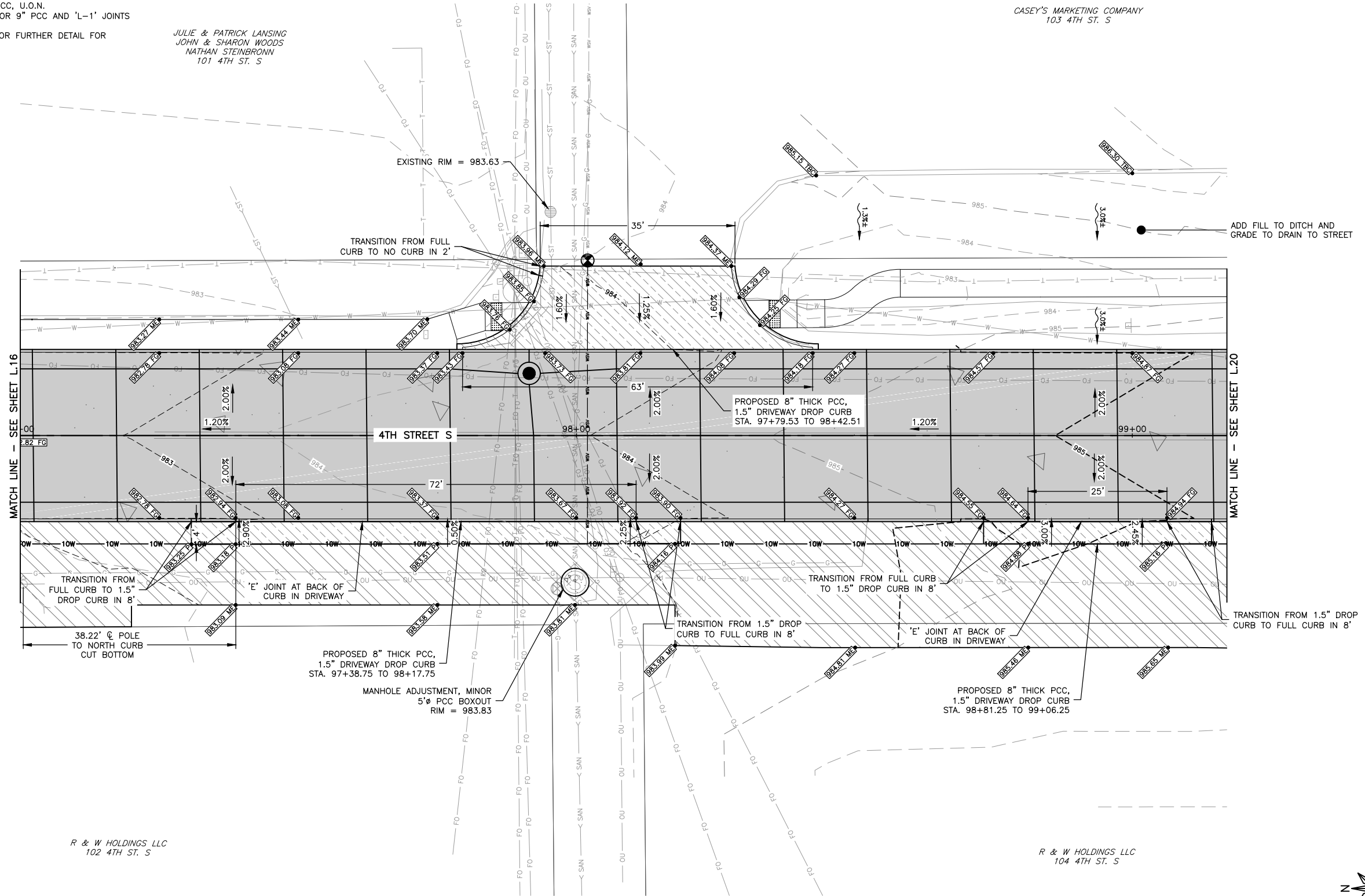
SHEET NUMBER:
L.17

NOTES:

1. NOMINAL 3% OR 2% CROSS SLOPE FOR MAINLINE PAVING AS NOTED, ANY CROSS SLOPE VARIABILITY TO BE DONE IN THE OUTER 6.5' CURB SECTION.
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JULIE & PATRICK LANSING
JOHN & SHARON WOODS
NATHAN STEINBRONN
101 4TH ST. S

CASEY'S MARKETING COMPANY
103 4TH ST. S



R & W HOLDINGS LLC
102 4TH ST. S

R & W HOLDINGS LLC
104 4TH ST. S



10 0 10 20 30 FEET

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
GEOMETRIC AND STAKING DETAILS - 4TH ST.

SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L18

JOB NUMBER:
22-1100

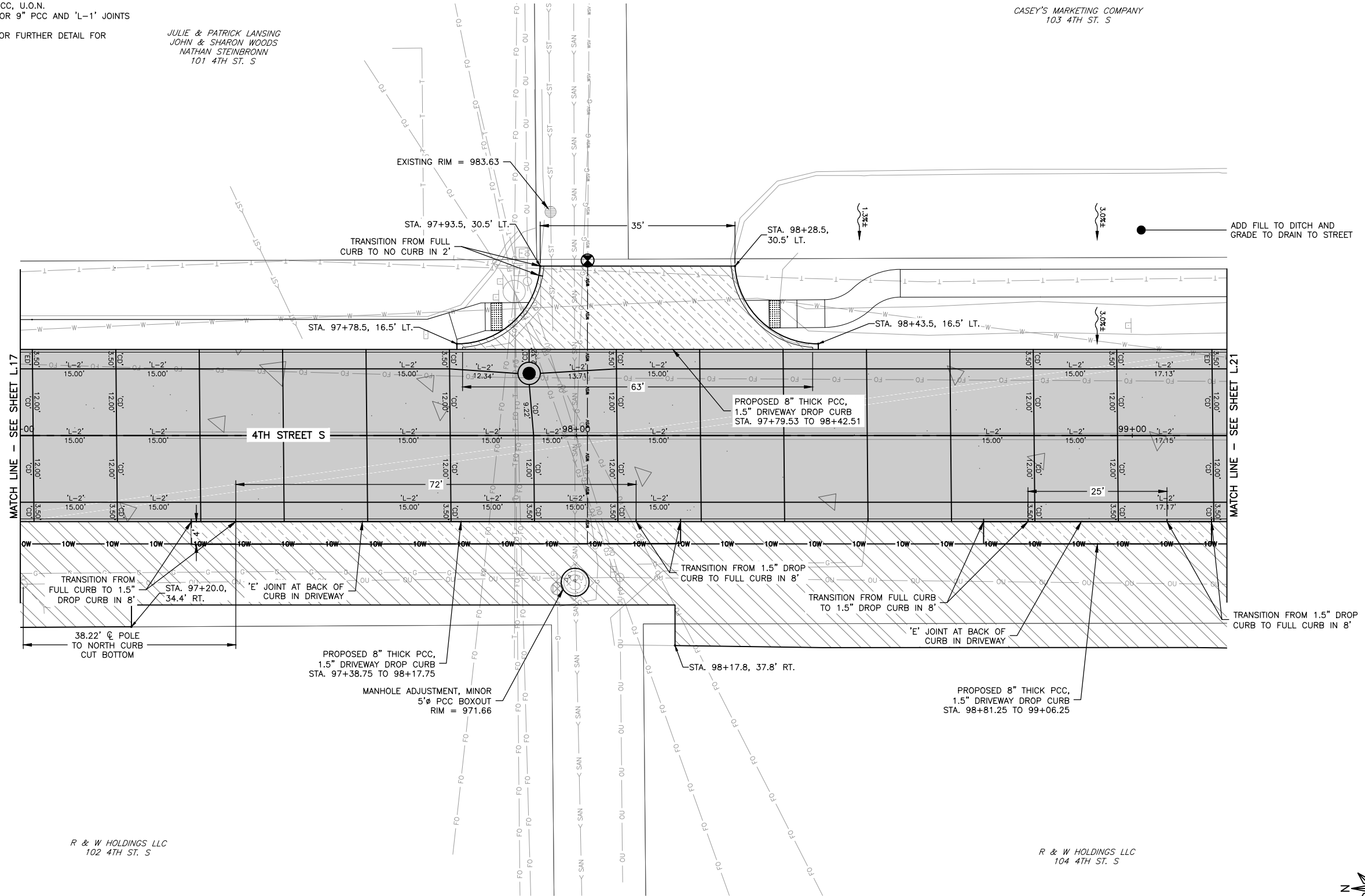
SHEET NUMBER:
L.18

NOTES:

1. NOMINAL 3% OR 2% CROSS SLOPE FOR MAINLINE PAVING AS NOTED, ANY CROSS SLOPE VARIABILITY TO BE DONE IN THE OUTER 6.5' CURB SECTION.
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3. LONGITUDINAL JOINTS TO BE 'L-2' JOINTS FOR 9" PCC AND 'L-1' JOINTS FOR 7" PCC.
4. REFER TO STANDARD ROAD PLAN BR-102 FOR FURTHER DETAIL FOR BRIDGE APPROACH.

JULIE & PATRICK LANSING
JOHN & SHARON WOODS
NATHAN STEINBRONN
101 4TH ST. S

CASEY'S MARKETING COMPANY
103 4TH ST. S

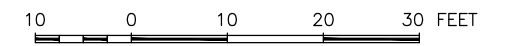


MATCH LINE - SEE SHEET L.17

MATCH LINE - SEE SHEET L.21

R & W HOLDINGS LLC
102 4TH ST. S

R & W HOLDINGS LLC
104 4TH ST. S



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
JOINTING DETAILS - 4TH ST.

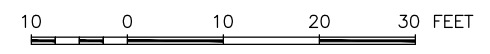
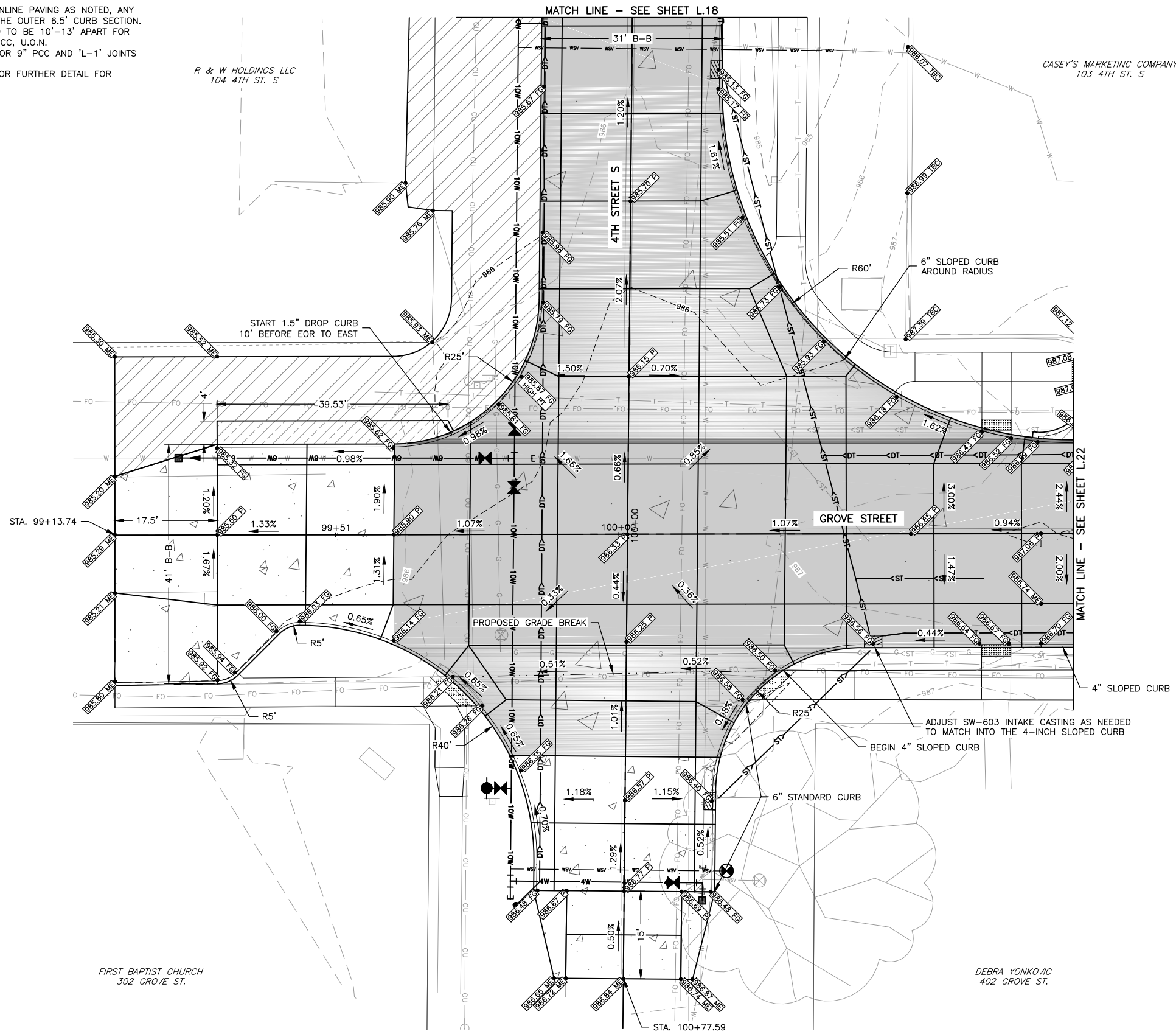
SET TYPE: BID LETTING
G:\C30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L19

JOB NUMBER:
22-1100

SHEET NUMBER:
L.19

NOTES:

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ILLINOIS
IOWA
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OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
GEOMETRIC AND STAKING DETAILS - 4TH ST. & GROVE ST.
SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L20

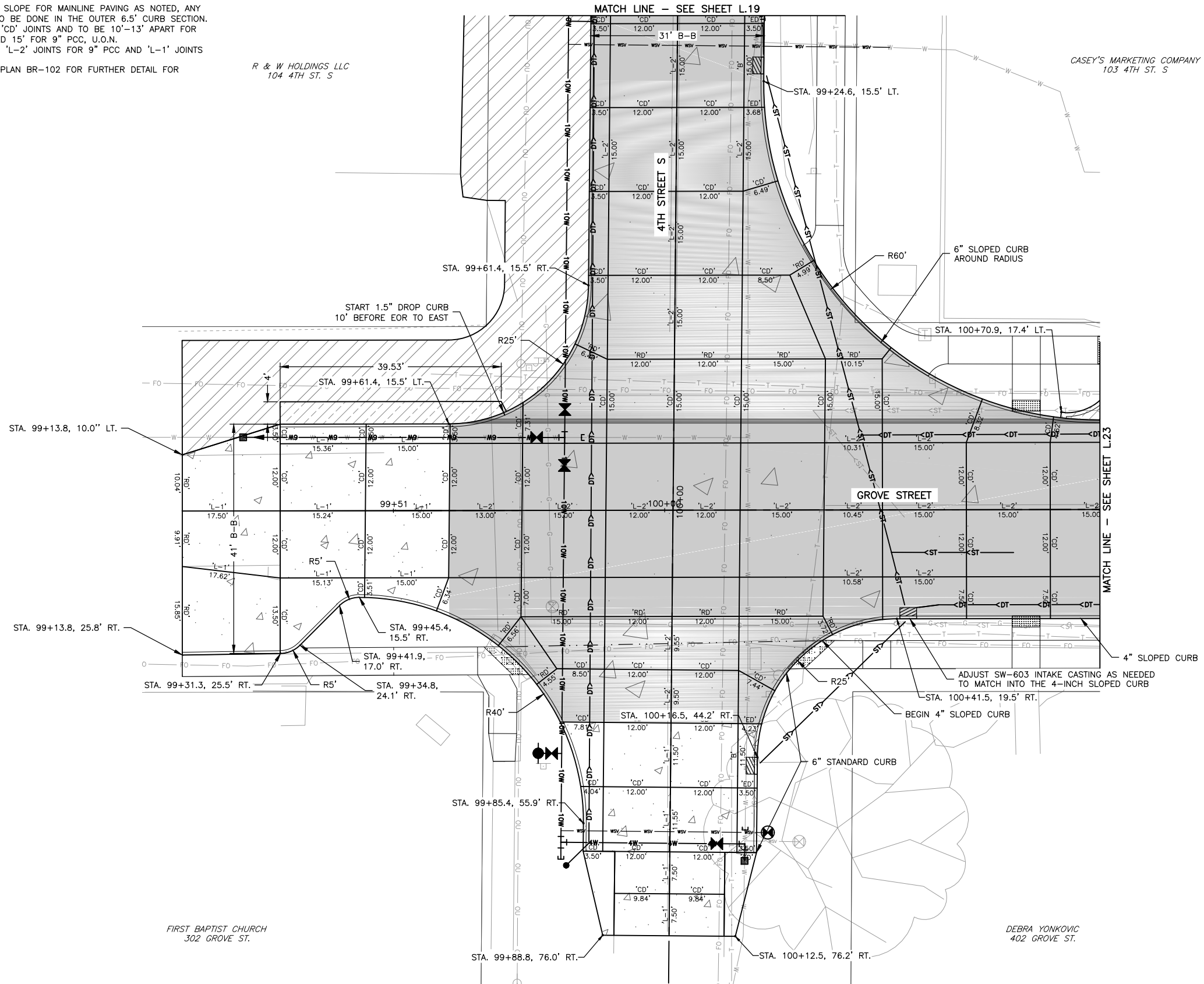
JOB NUMBER:
22-1100
SHEET NUMBER:
L20

NOTES:

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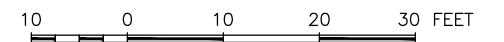
R & W HOLDINGS LLC
104 4TH ST. S

CASEY'S MARKETING COMPANY
103 4TH ST. S



FIRST BAPTIST CHURCH
302 GROVE ST.

DEBRA YONKOVIC
402 GROVE ST.



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
JOINTING DETAILS - 4TH ST. & GROVE ST.

SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L21

JOB NUMBER:
22-1100

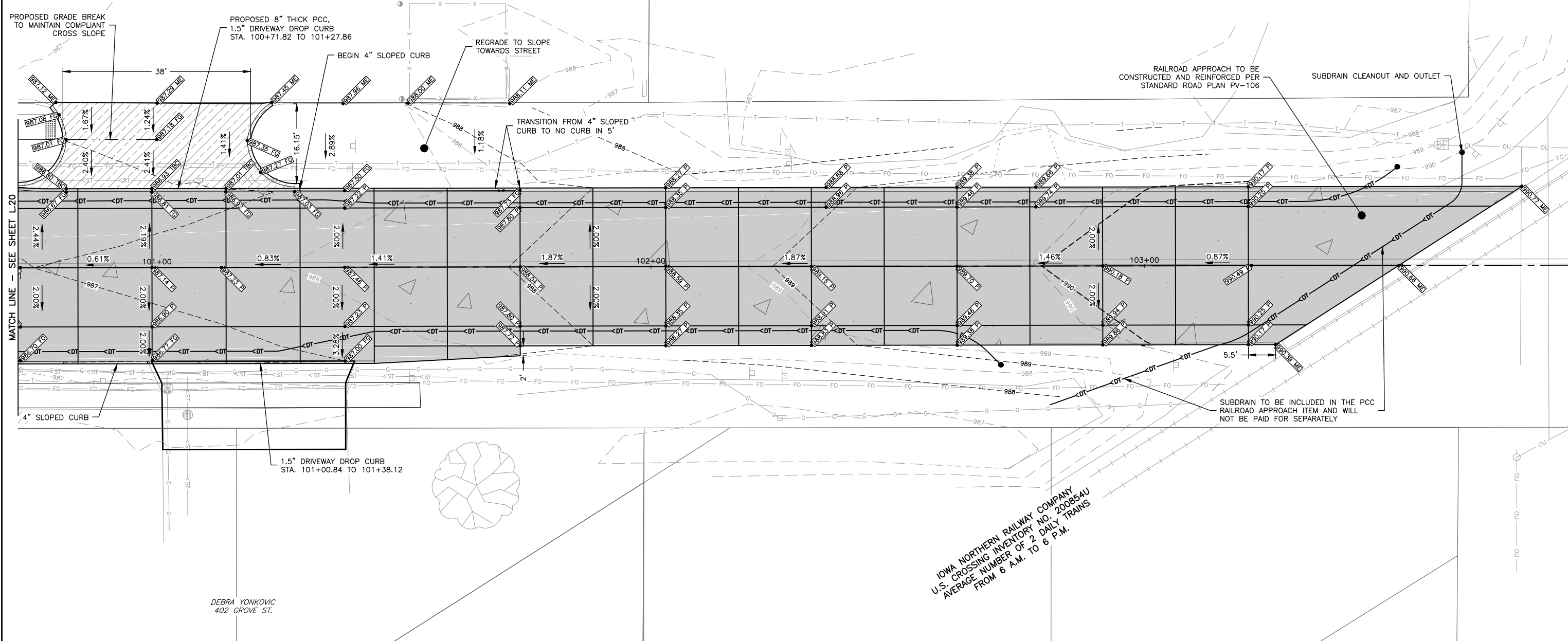
SHEET NUMBER:
L.21

NOTES:

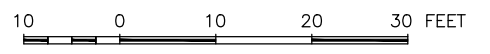
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CASEY'S MARKETING COMPANY
103 4TH ST. S

FAIRBANK DEVELOPMENT CORPORATION
405 GROVE ST.



IOWA NORTHERN RAILWAY COMPANY
U.S. CROSSING INVENTORY NO. 200854U
AVERAGE NUMBER OF 2 DAILY TRAINS
FROM 6 A.M. TO 6 P.M.



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
GEOMETRIC AND STAKING DETAILS - GROVE ST.
SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L22

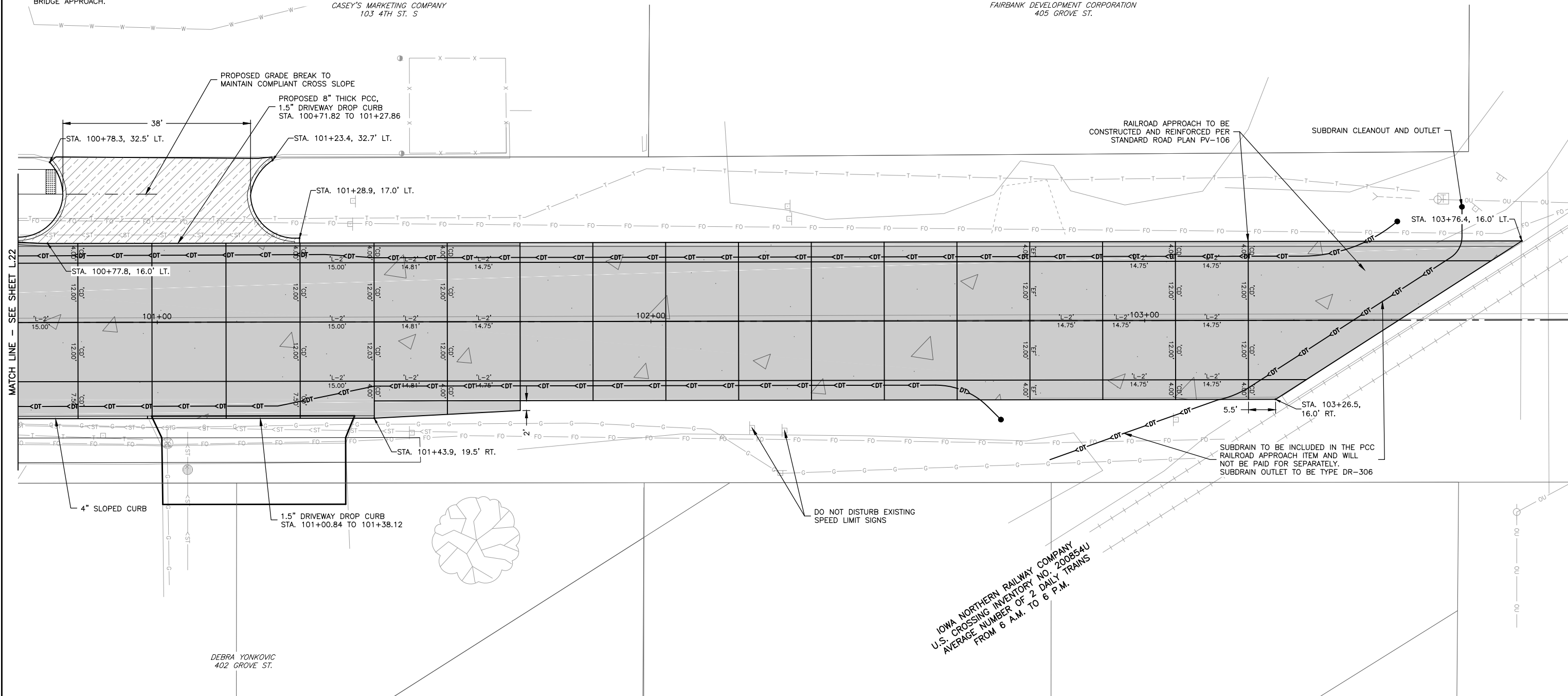
JOB NUMBER:
22-1100
SHEET NUMBER:
L.22

NOTES:

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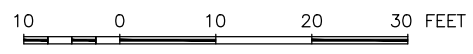
CASEY'S MARKETING COMPANY
103 4TH ST. S

FAIRBANK DEVELOPMENT CORPORATION
405 GROVE ST.



MATCH LINE - SEE SHEET L.22

IOWA NORTHERN RAILWAY COMPANY
U.S. CROSSING INVENTORY NO. 200854U
AVERAGE NUMBER OF 2 DAILY TRAINS
FROM 6 A.M. TO 6 P.M.



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

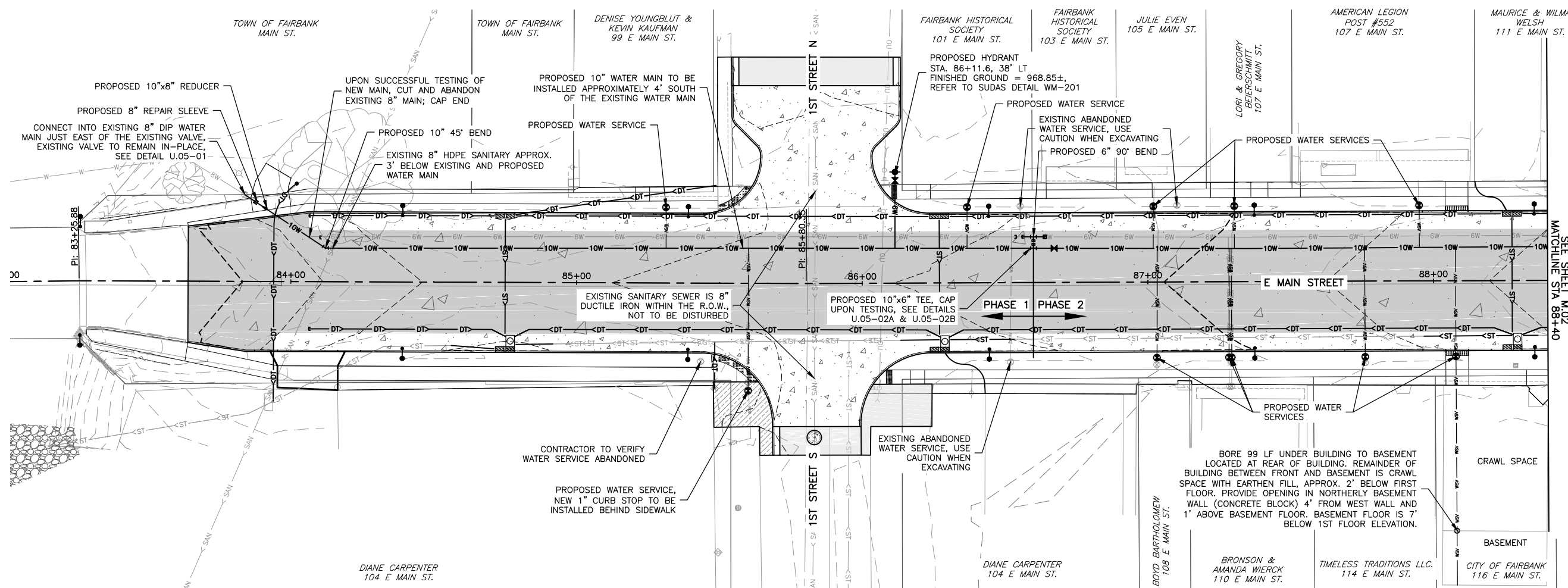
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
JOINTING DETAILS - GROVE ST.

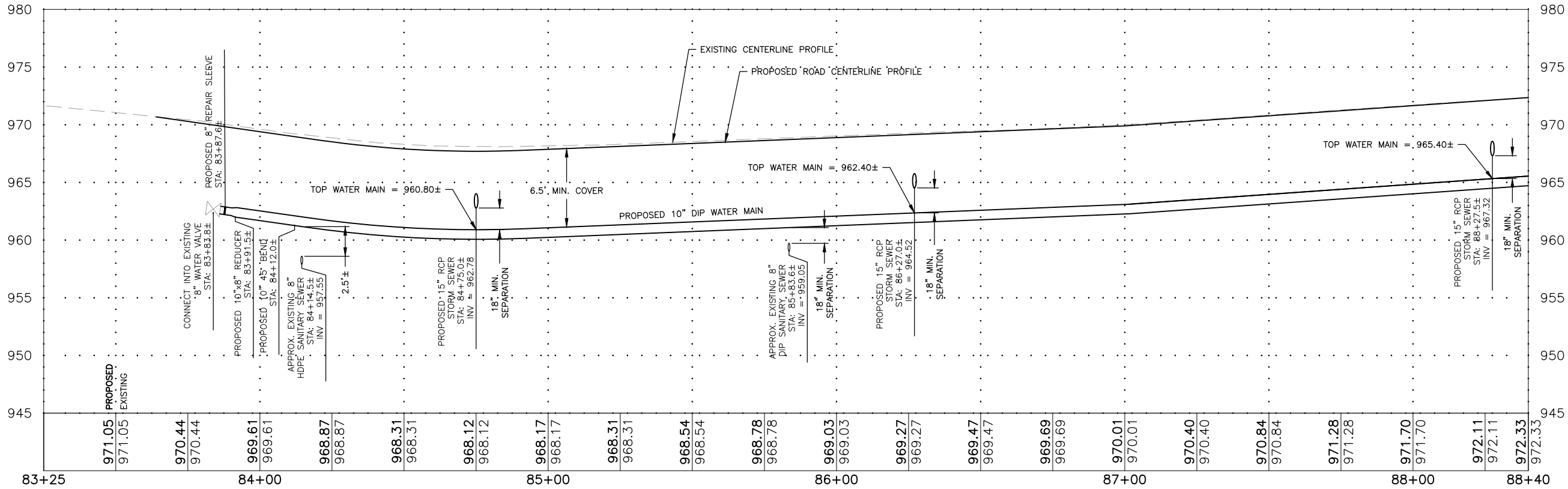
SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, L.23

JOB NUMBER:
22-1100

SHEET NUMBER:
L.23



- NOTE:**
1. ALL NEW WATER SERVICES TO BE 1" COPPER U.O.N.
 2. 1"x3/4" REDUCERS TO BE INSTALLED ON THE BACK SIDE OF THE 1" CURB STOP. CURB STOPS TO BE INSTALLED IN SPECIAL SHAPING AREA OF SIDEWALK 2'± BEHIND CURB USING WATER VALVE BOX COVER.
 3. CONTRACTOR TO USE CAUTION WHILE EXCAVATING DUE TO UNKNOWN WATER SERVICE LOCATIONS.
 4. TRACER SYSTEM REQUIRED.
 5. DIP SHALL BE WRAPPED.
 6. FIELD VERIFY EXISTING WATER MAIN LOCATION.
 7. REFER TO WATER SYSTEM TABULATIONS ON SHEET C.18 FOR FURTHER DETAILS.



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ENGINEERING & ENVIRONMENTAL

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WISCONSIN

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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

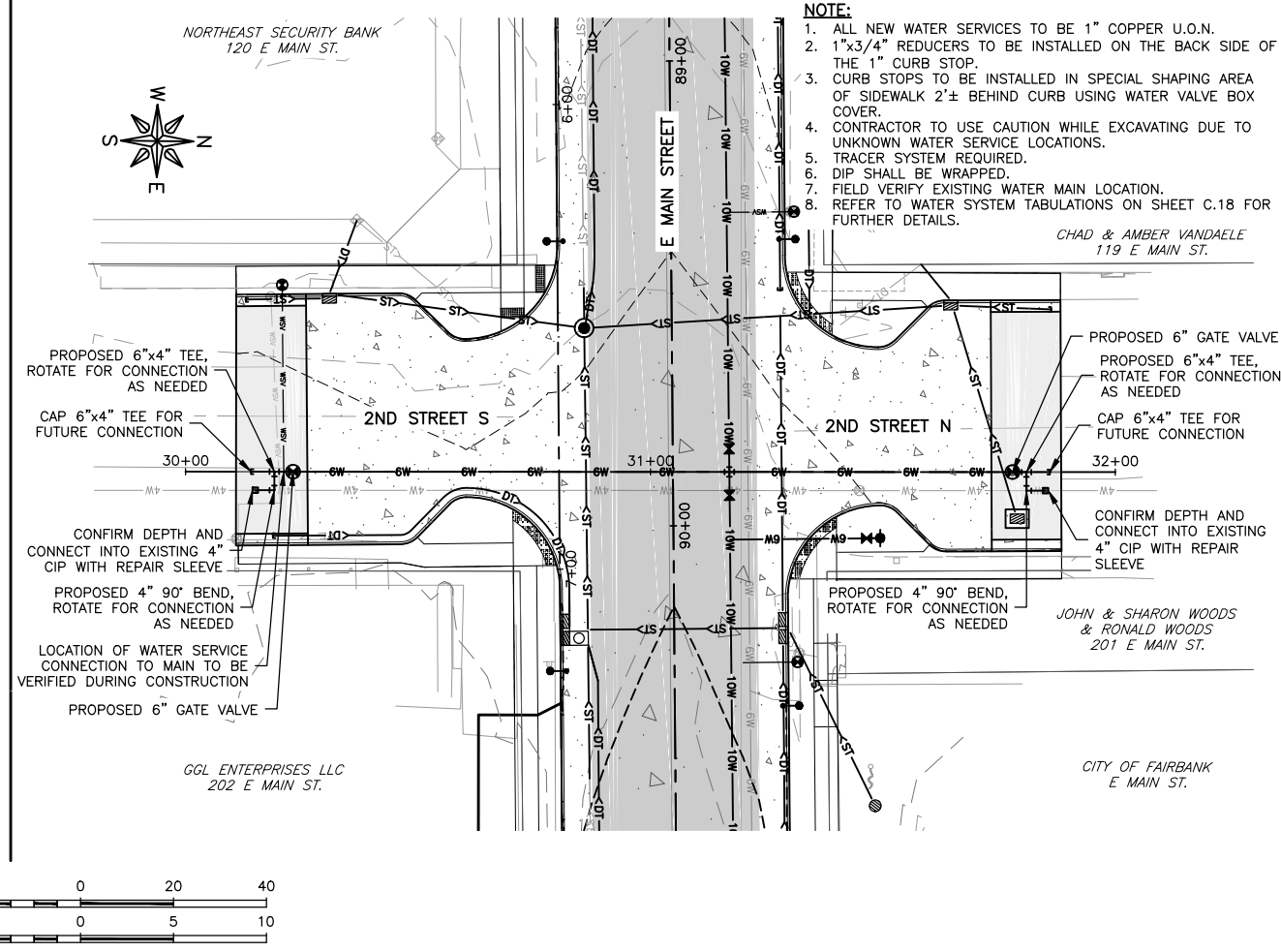
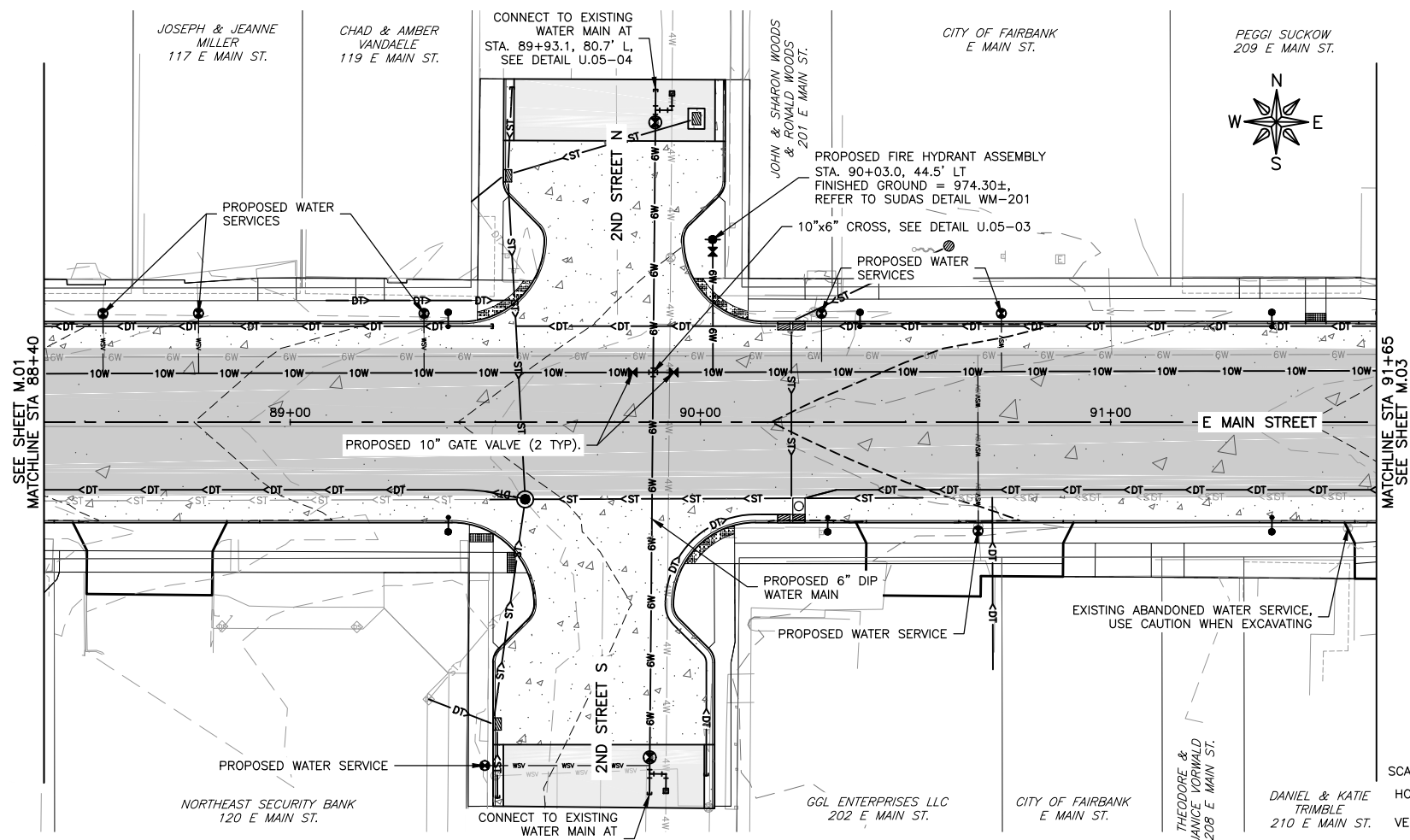
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PLAN & PROFILE - WATER MAIN - E.
MAIN STREET

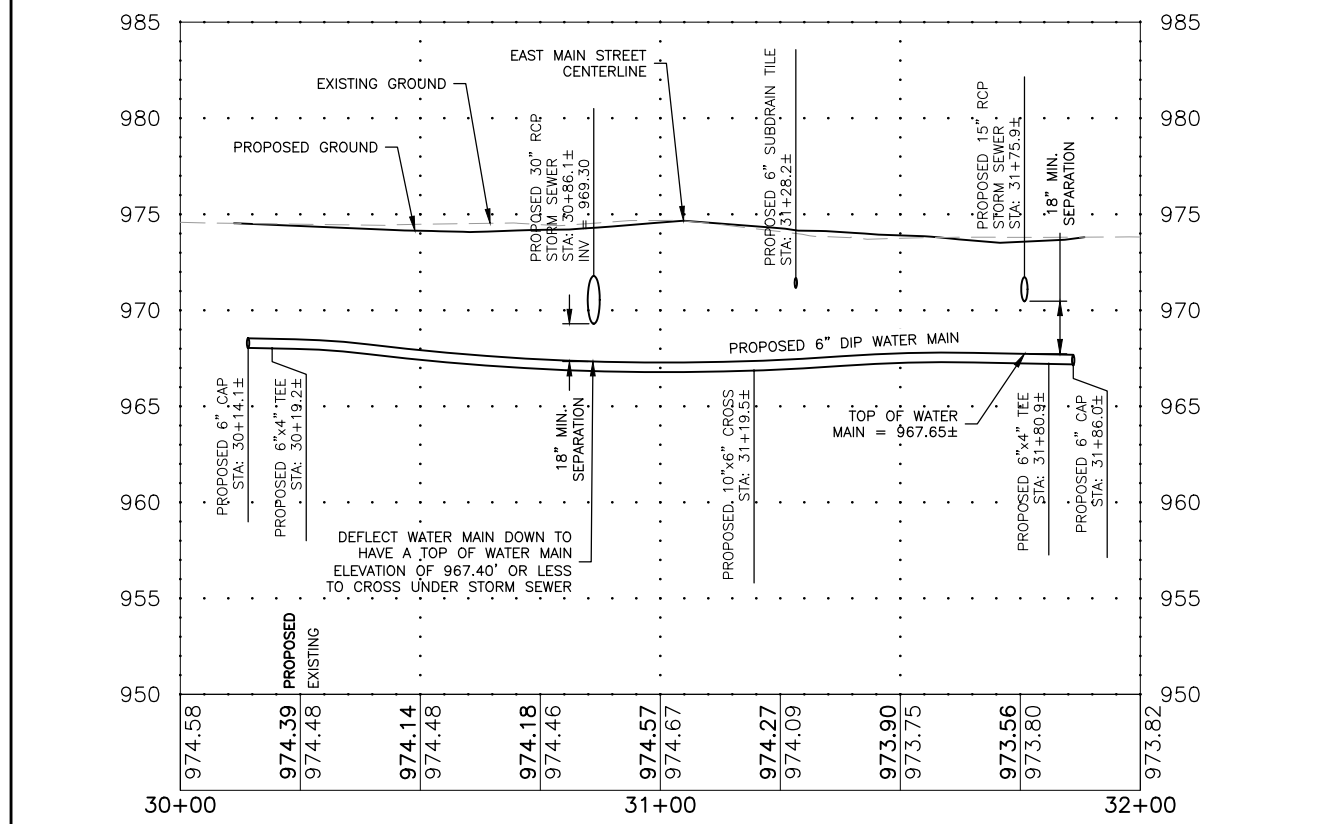
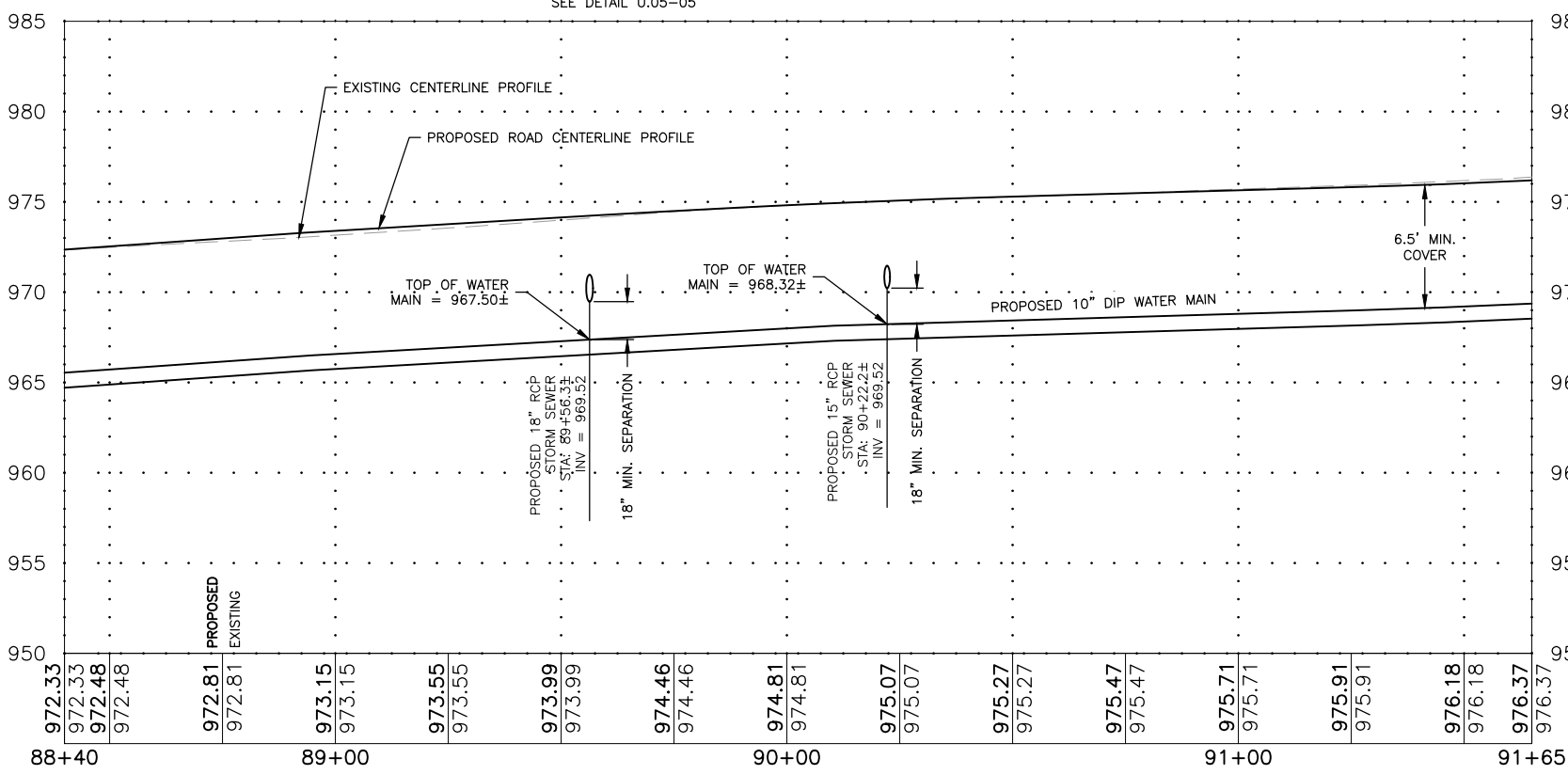
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G:\30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, M01 WATER - EMAIN (1)

JOB NUMBER:
22-1100

SHEET NUMBER:
M.01



- NOTE:**
1. ALL NEW WATER SERVICES TO BE 1" COPPER U.O.N.
 2. 1"x3/4" REDUCERS TO BE INSTALLED ON THE BACK SIDE OF THE 1" CURB STOP.
 3. CURB STOPS TO BE INSTALLED IN SPECIAL SHAPING AREA OF SIDEWALK 2'-6" BEHIND CURB USING WATER VALVE BOX COVER.
 4. CONTRACTOR TO USE CAUTION WHILE EXCAVATING DUE TO UNKNOWN WATER SERVICE LOCATIONS. TRACER SYSTEM REQUIRED.
 5. DIP SHALL BE WRAPPED.
 6. FIELD VERIFY EXISTING WATER MAIN LOCATION.
 7. REFER TO WATER SYSTEM TABULATIONS ON SHEET C.18 FOR FURTHER DETAILS.



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FAIRBANK, IA 50629

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BUCHANAN COUNTY
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DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

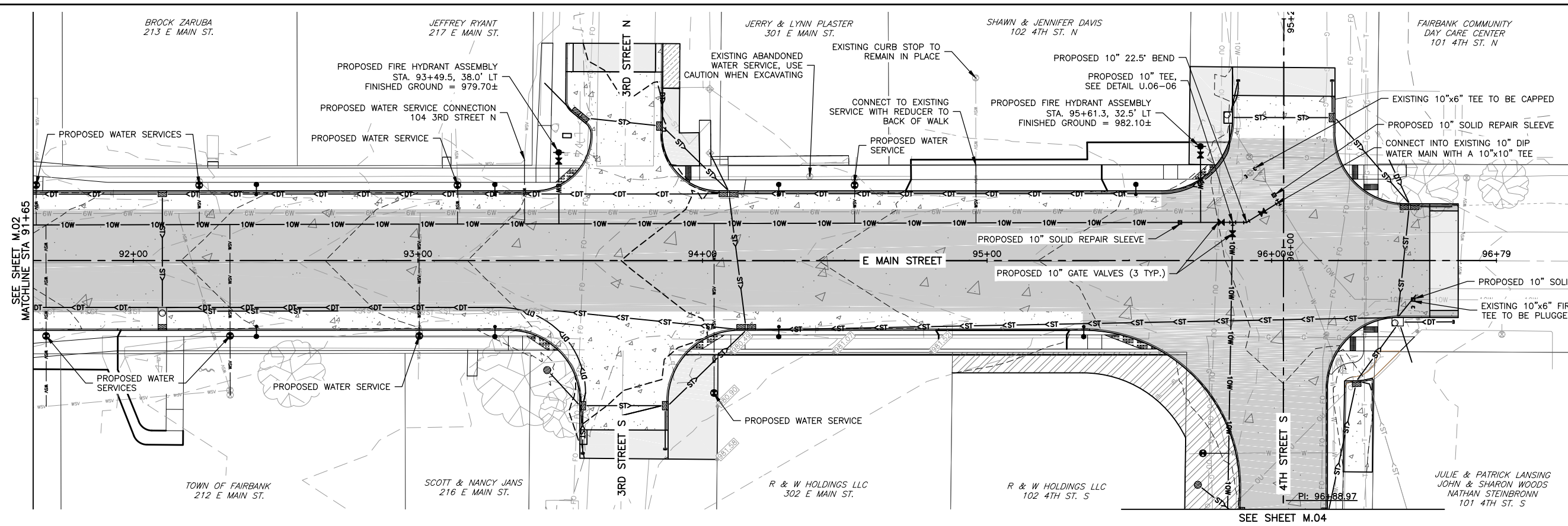
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PLAN & PROFILE - WATER MAIN - E.
MAIN STREET

SET TYPE: BID LETTING

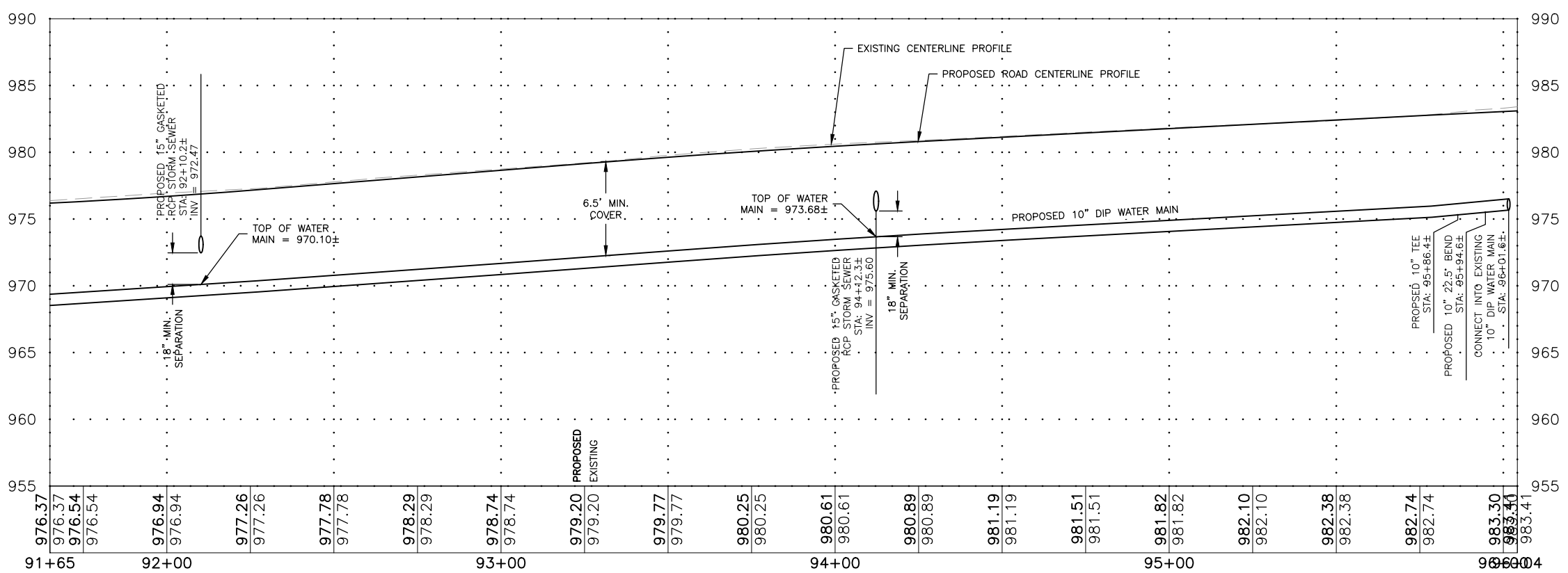
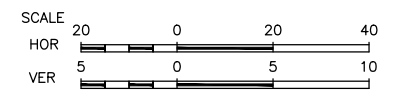
G:\C30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, M02 WATER - EMAN (2)

JOB NUMBER:
22-1100

SHEET NUMBER:
M.02



- NOTE:**
1. ALL NEW WATER SERVICES TO BE 1" COPPER U.O.N.
 2. 1"x3/4" REDUCERS TO BE INSTALLED ON THE BACK SIDE OF THE 1" CURB STOP.
 3. CURB STOPS TO BE INSTALLED IN SPECIAL SHAPING AREA OF SIDEWALK 2'± BEHIND CURB USING WATER VALVE BOX COVER.
 4. CONTRACTOR TO USE CAUTION WHILE EXCAVATING DUE TO UNKNOWN WATER SERVICE LOCATIONS.
 5. TRACER SYSTEM REQUIRED.
 6. DIP SHALL BE WRAPPED.
 7. FIELD VERIFY EXISTING WATER MAIN LOCATION.
 8. REFER TO WATER SYSTEM TABULATIONS ON SHEET C.18 FOR FURTHER DETAILS.



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FAIRBANK, IA 50629

PROJECT AND LOCATION:
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BUCHANAN COUNTY
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DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

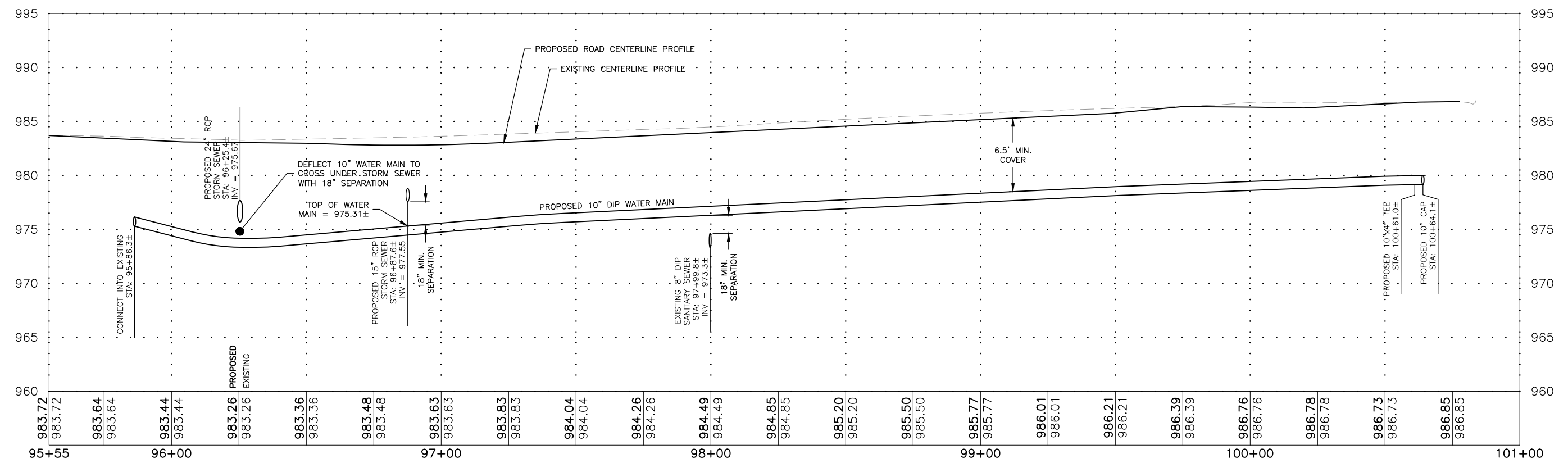
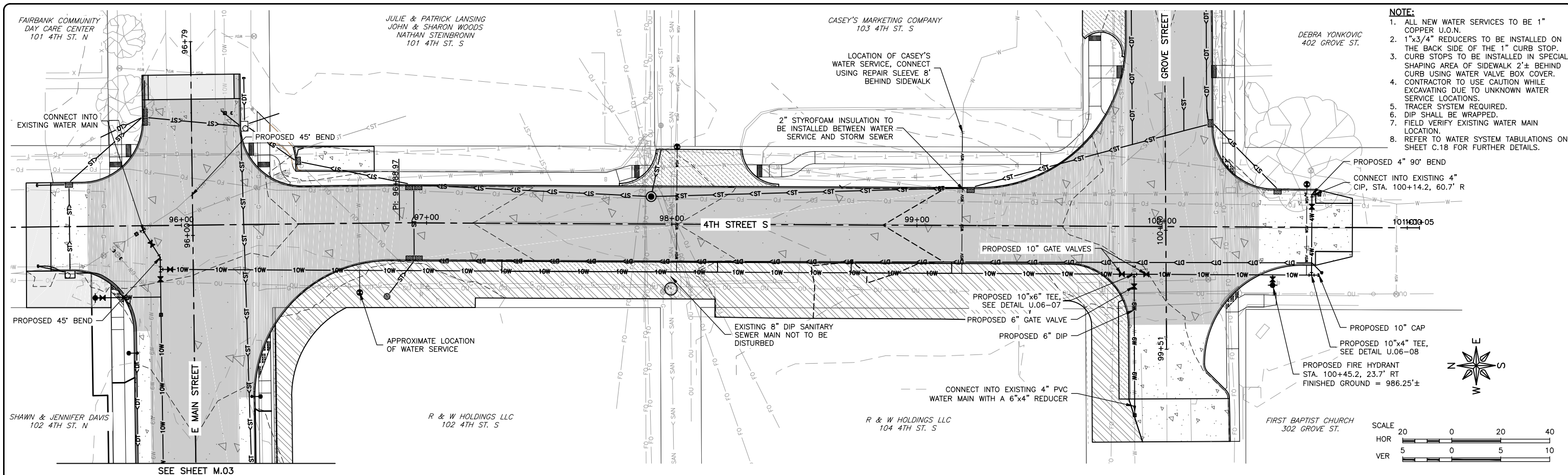
DRAWING:
PLAN & PROFILE - WATER MAIN - E.
MAIN STREET

SET TYPE: BID LETTING

G:\C30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, M03 WATER - EMAIN (3)

JOB NUMBER:
22-1100

SHEET NUMBER:
M.03



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DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

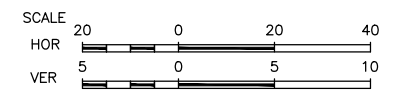
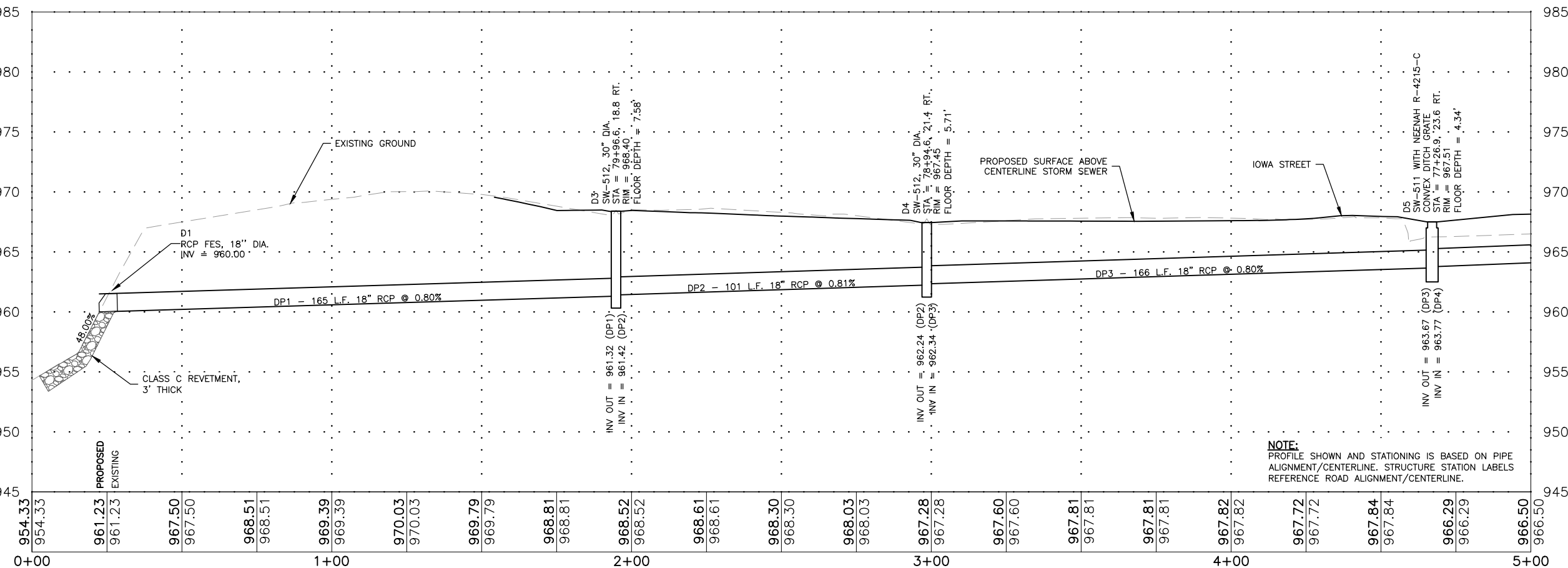
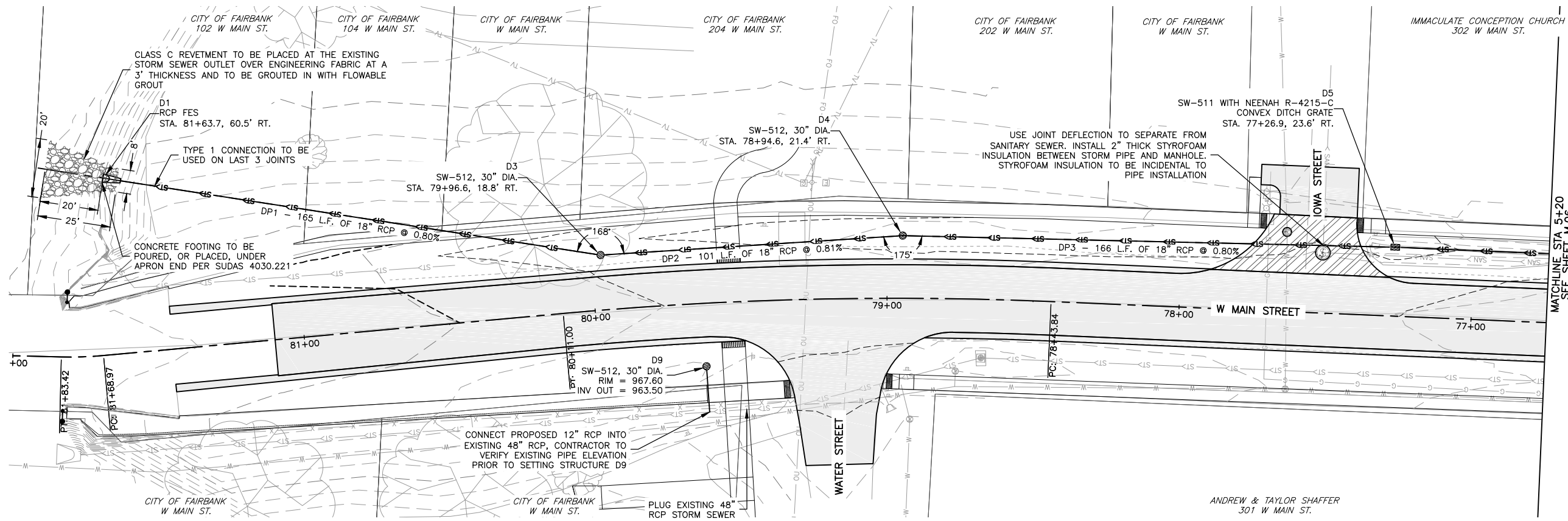
DRAWING:
PLAN & PROFILE - WATER MAIN - 4TH STREET

SET TYPE: BID LETTING

G:\C30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, M04 WATER - 4TH

JOB NUMBER:
22-1100

SHEET NUMBER:
M.04



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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PLAN & PROFILE - STORM SEWER - W.
MAIN STREET

SET TYPE: BID LETTING

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JOB NUMBER:
22-1100

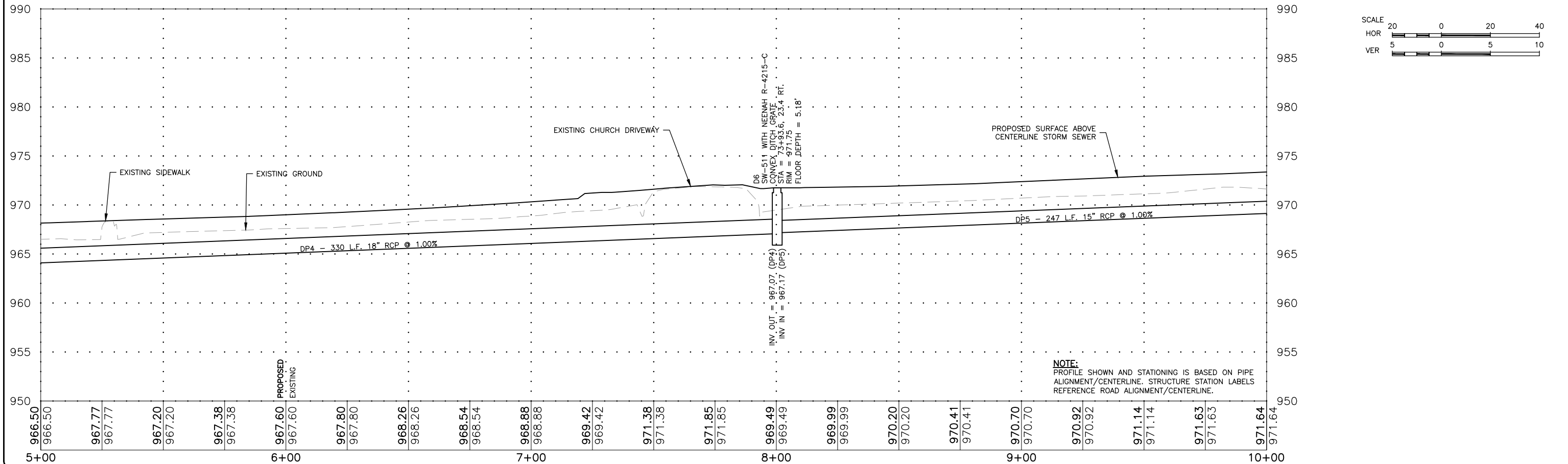
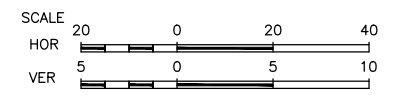
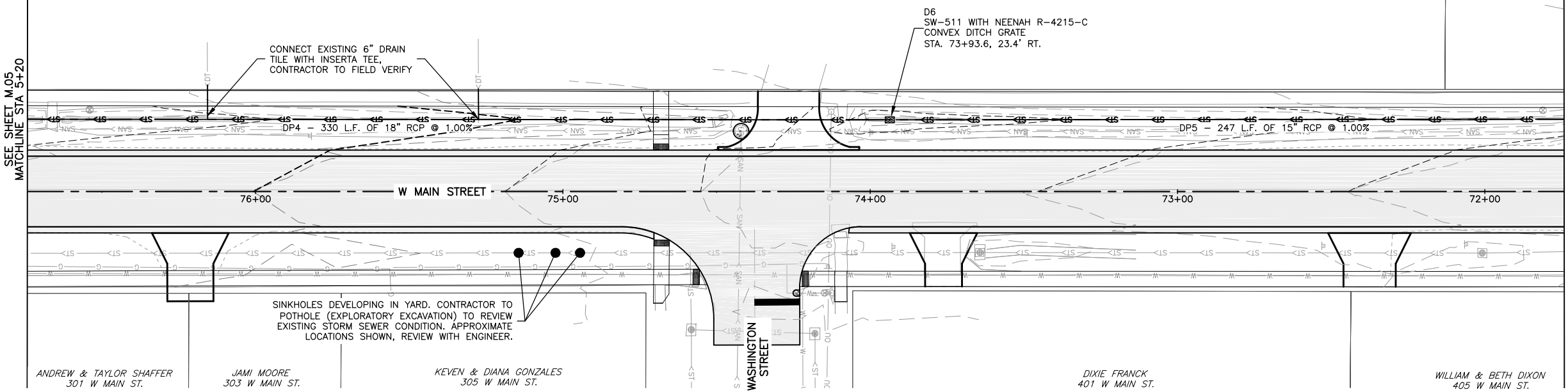
SHEET NUMBER:
M.05

IMMACULATE CONCEPTION CHURCH
302 W MAIN ST.

AMBER FULLER
406 W MAIN ST.

SEE SHEET M.05
MATCHLINE STA 5+20

SEE SHEET M.07
MATCHLINE STA 10+20



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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

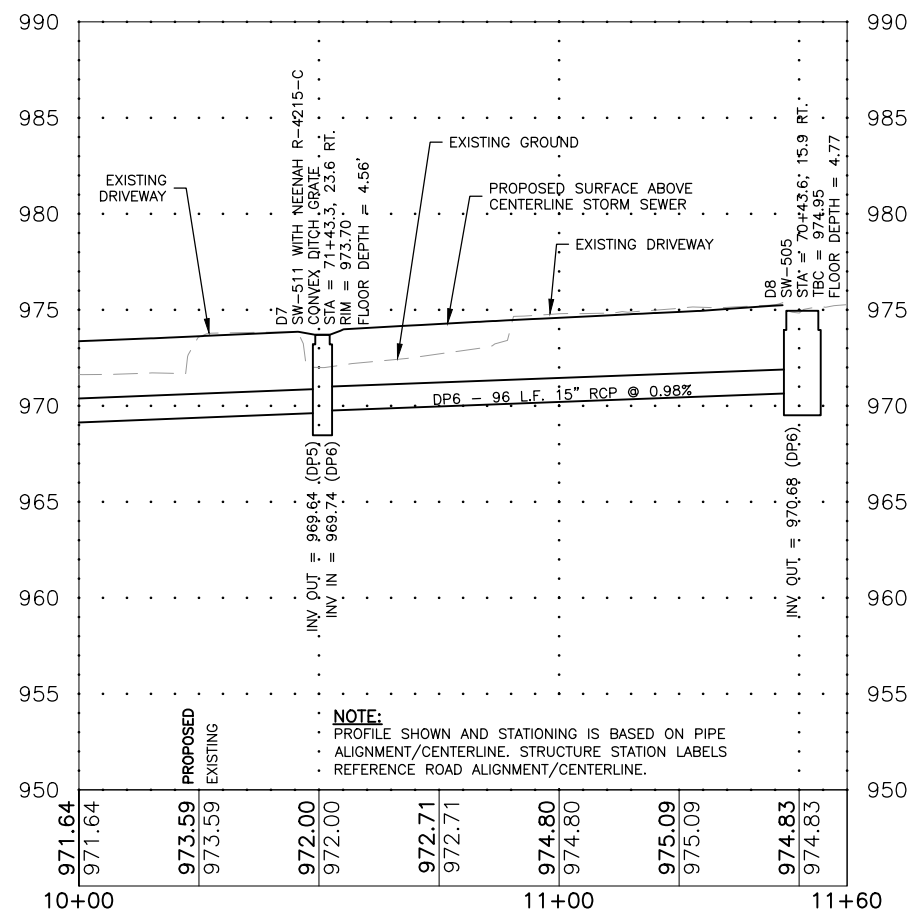
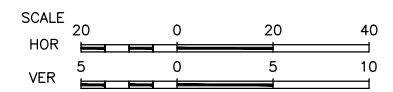
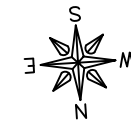
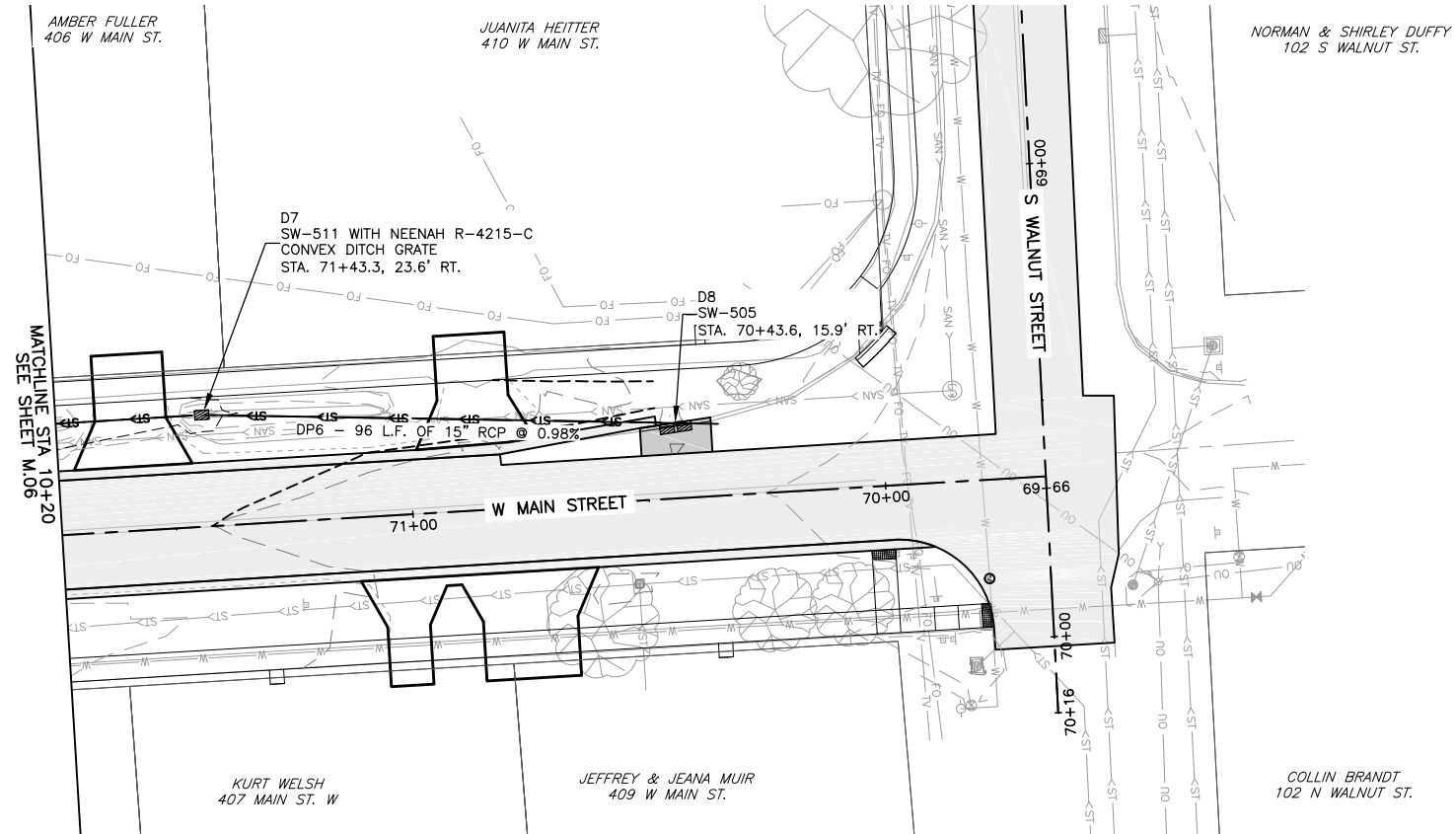
DRAWING:
PLAN & PROFILE - STORM SEWER - W.
MAIN STREET

SET TYPE: BID LETTING

G:\C30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, M.06 STORM - WMAIN (2)

JOB NUMBER:
22-1100

SHEET NUMBER:
M.06



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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

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APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

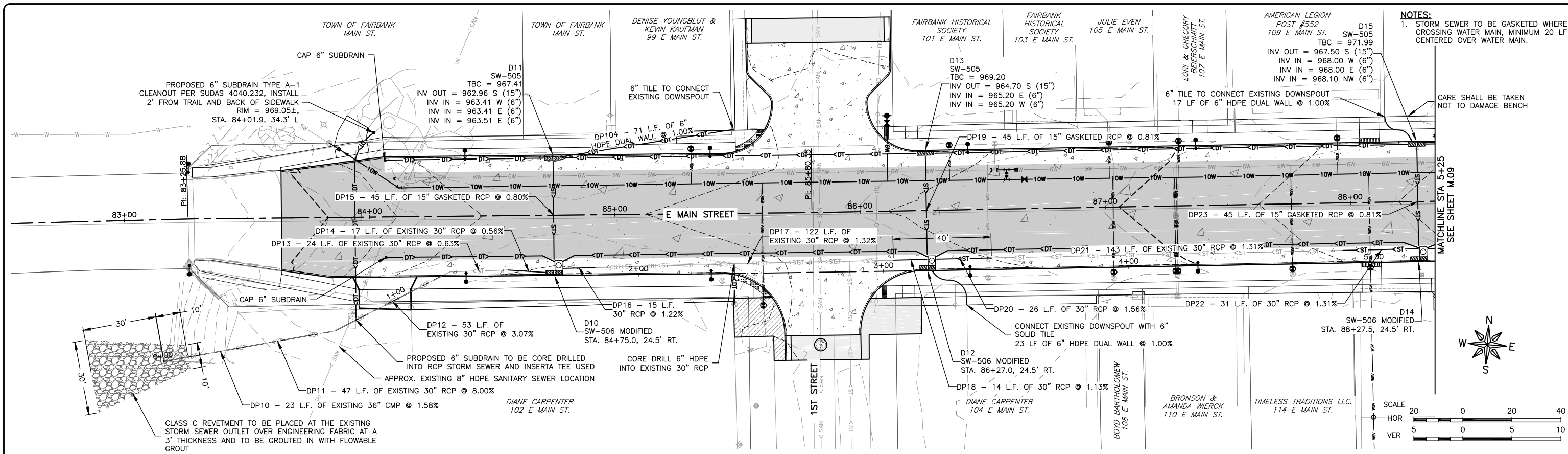
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PLAN & PROFILE - STORM SEWER - W.
MAIN STREET

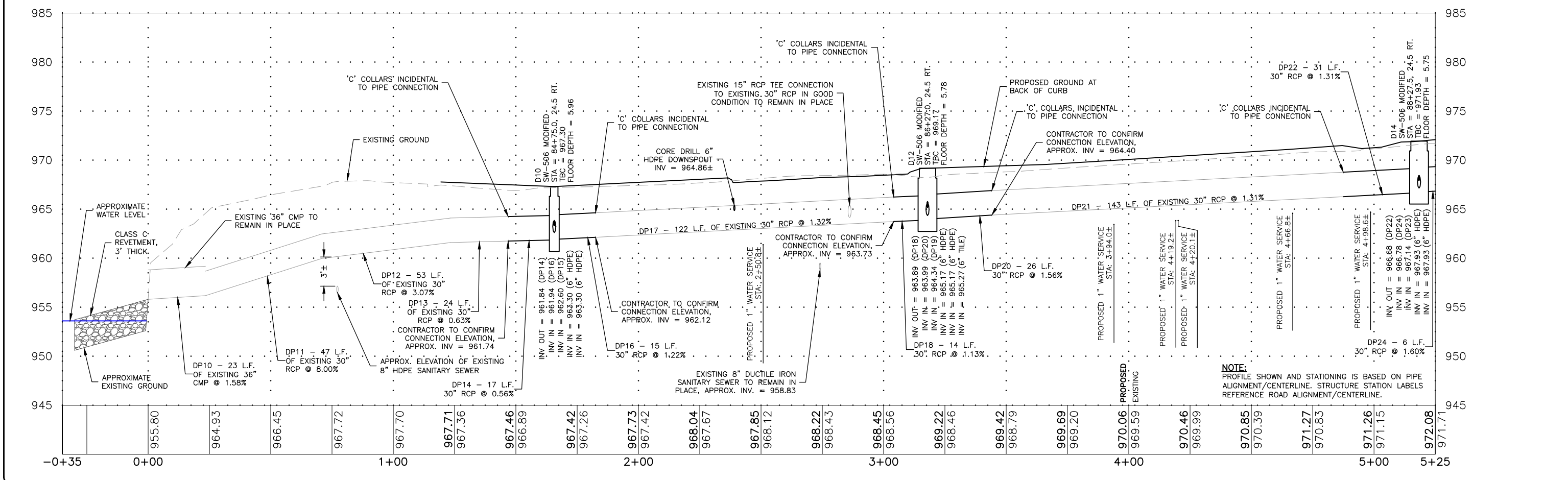
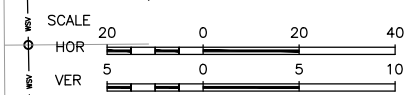
SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, M.07 STORM - WMAN (3)

JOB NUMBER:
22-1100

SHEET NUMBER:
M.07



NOTES:
 1. STORM SEWER TO BE GASKETED WHERE CROSSING WATER MAIN, MINIMUM 20 LF CENTERED OVER WATER MAIN.



NOTE:
 PROFILE SHOWN AND STATIONING IS BASED ON PIPE ALIGNMENT/CENTERLINE. STRUCTURE STATION LABELS REFERENCE ROAD ALIGNMENT/CENTERLINE.

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 FAIRBANK, IA 50629

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 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

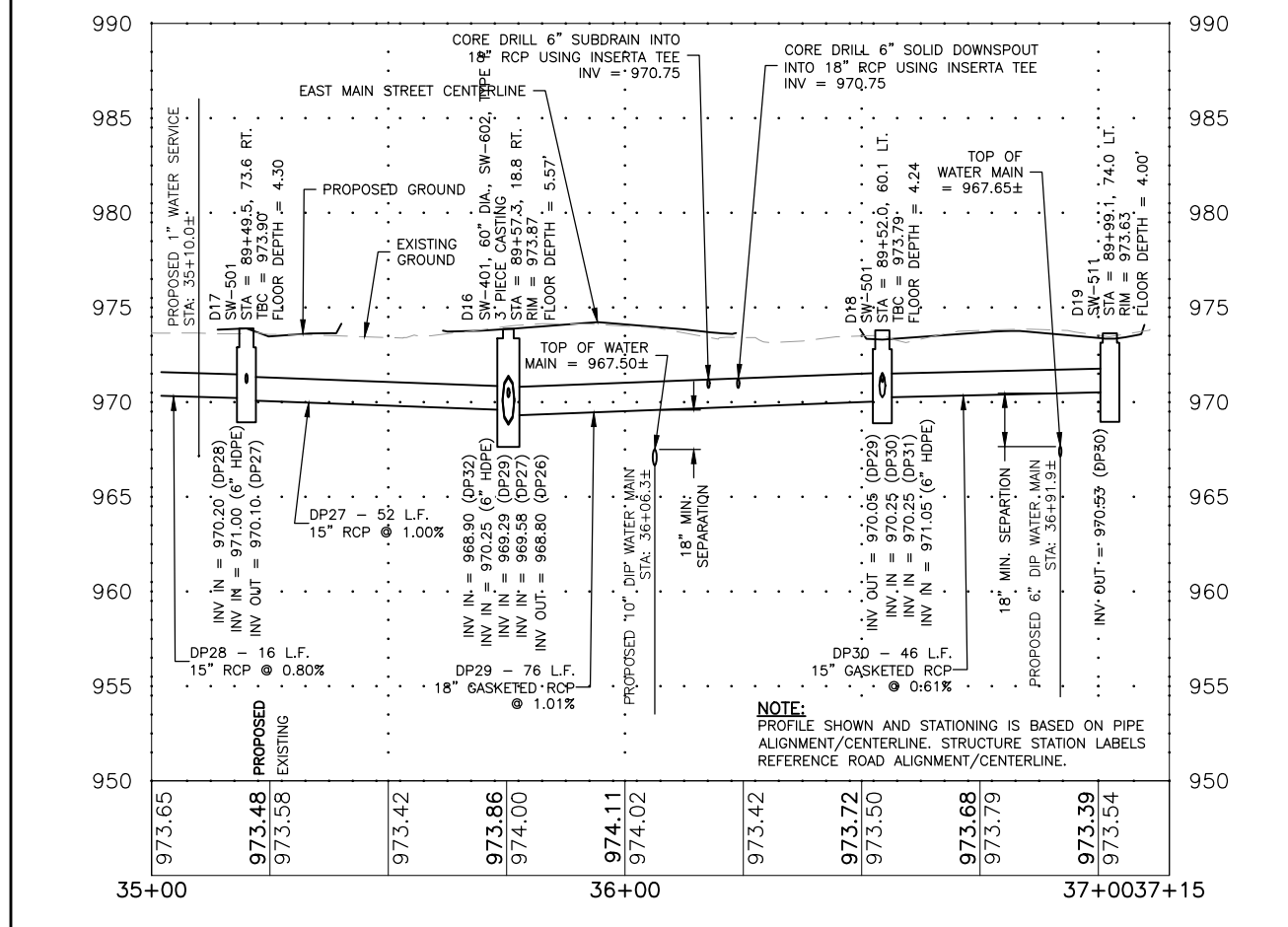
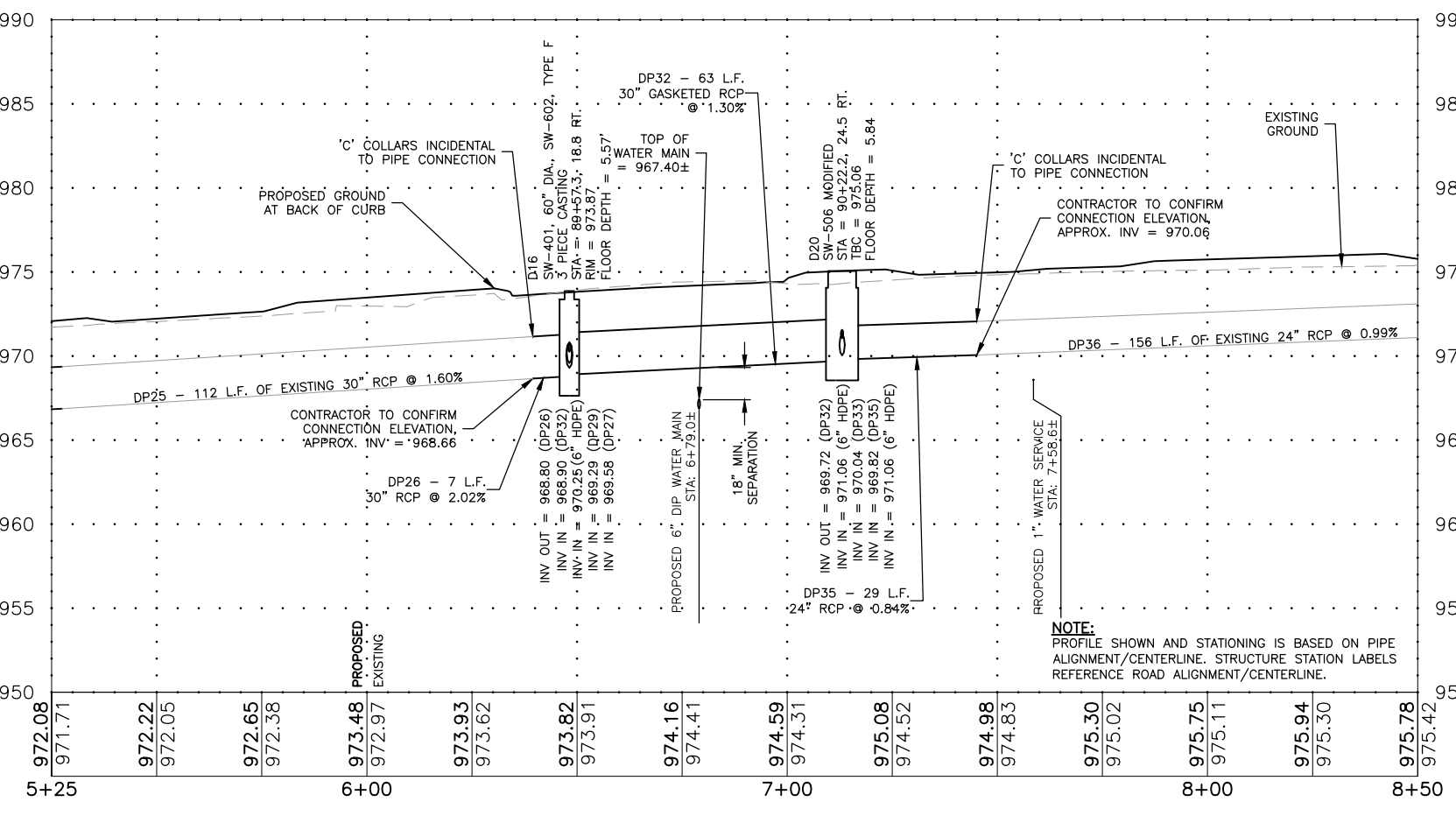
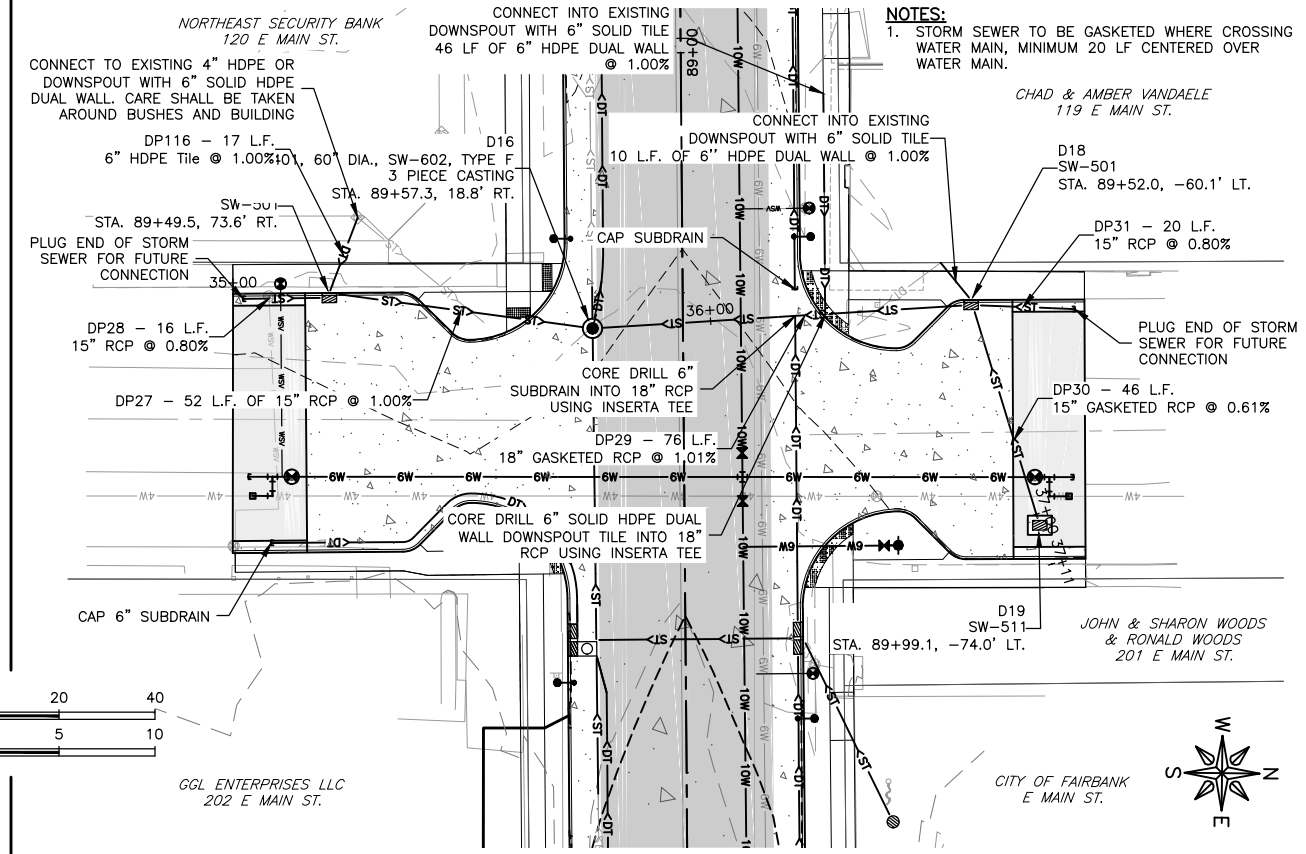
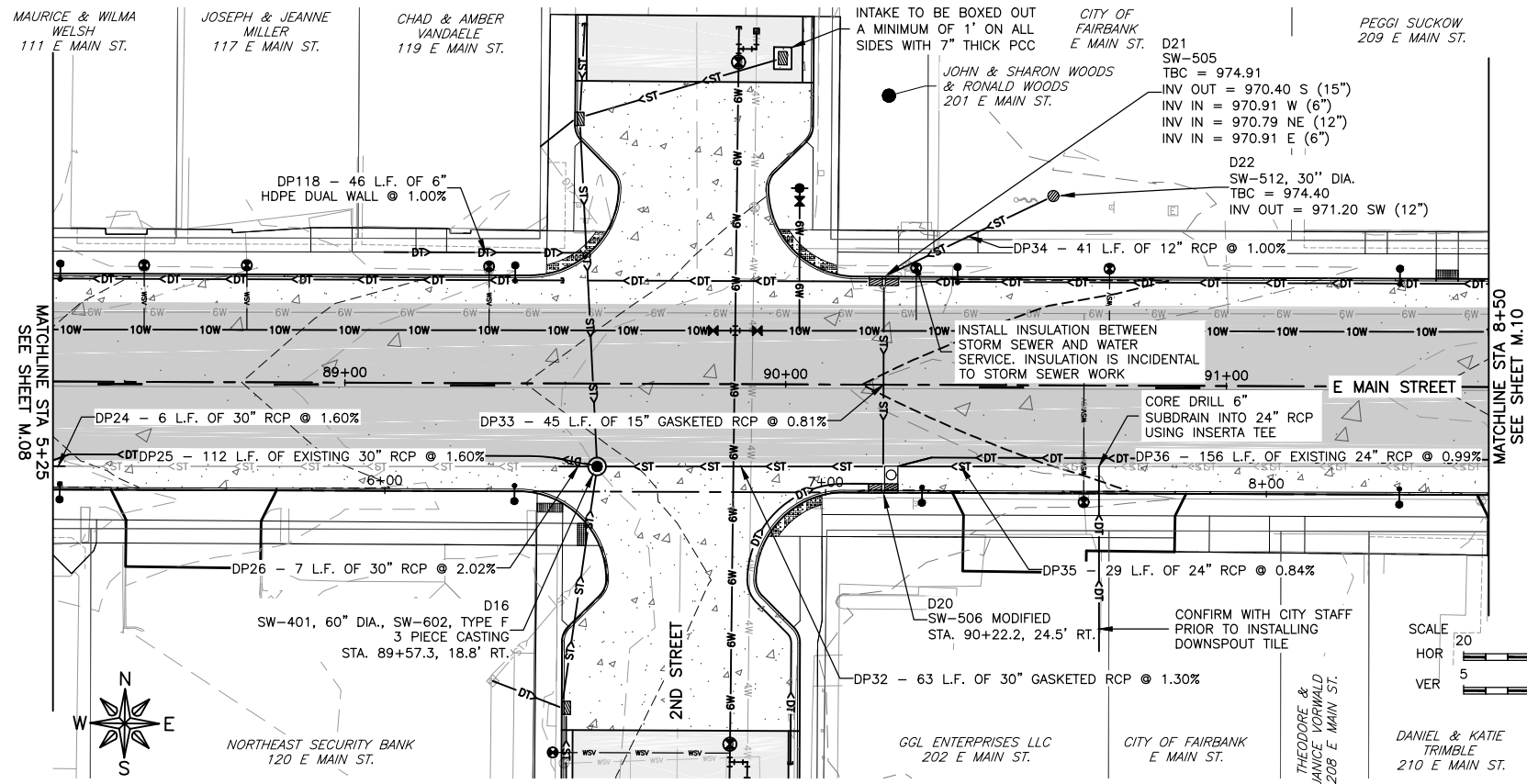
DRAWING:
 PLAN & PROFILE - STORM SEWER - E. MAIN STREET

SET TYPE: BID LETTING

G:\30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, M08 STORM - E MAIN (1)

JOB NUMBER:
 22-1100

SHEET NUMBER:
 M.08



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PROJECT AND LOCATION:
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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PLAN & PROFILE - STORM SEWER - E. MAIN STREET

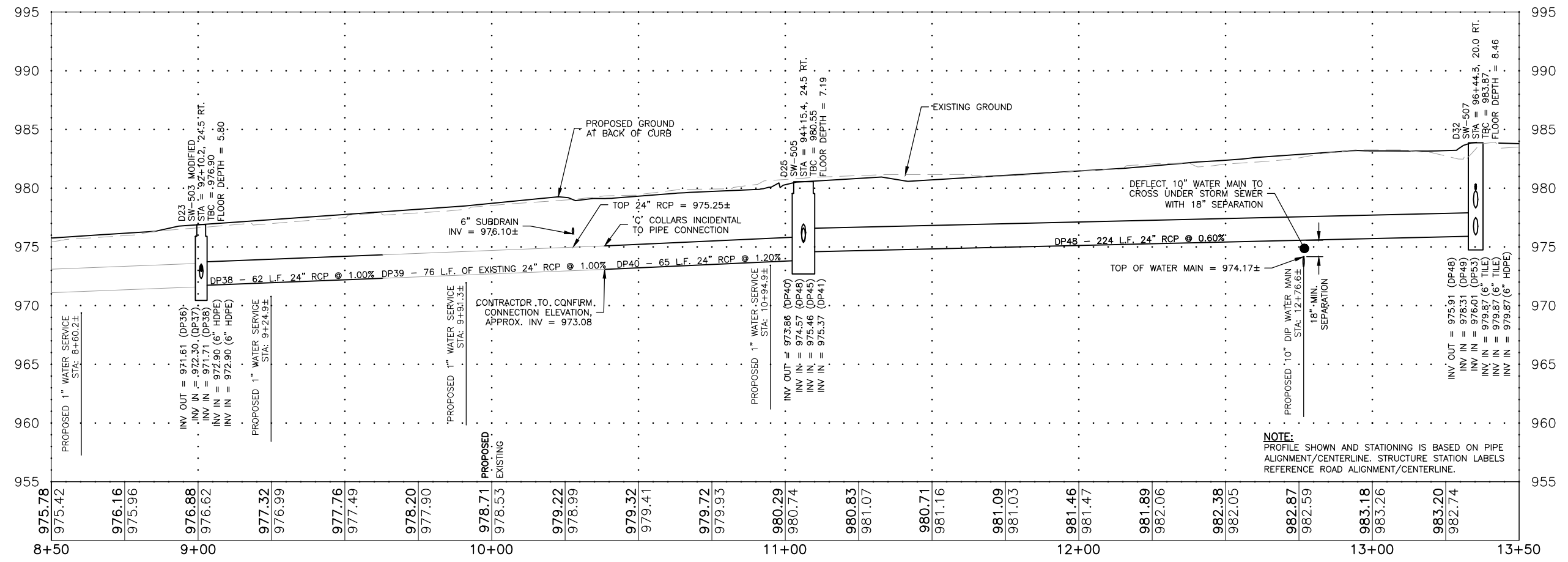
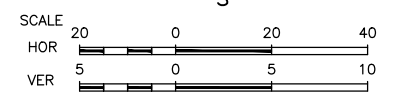
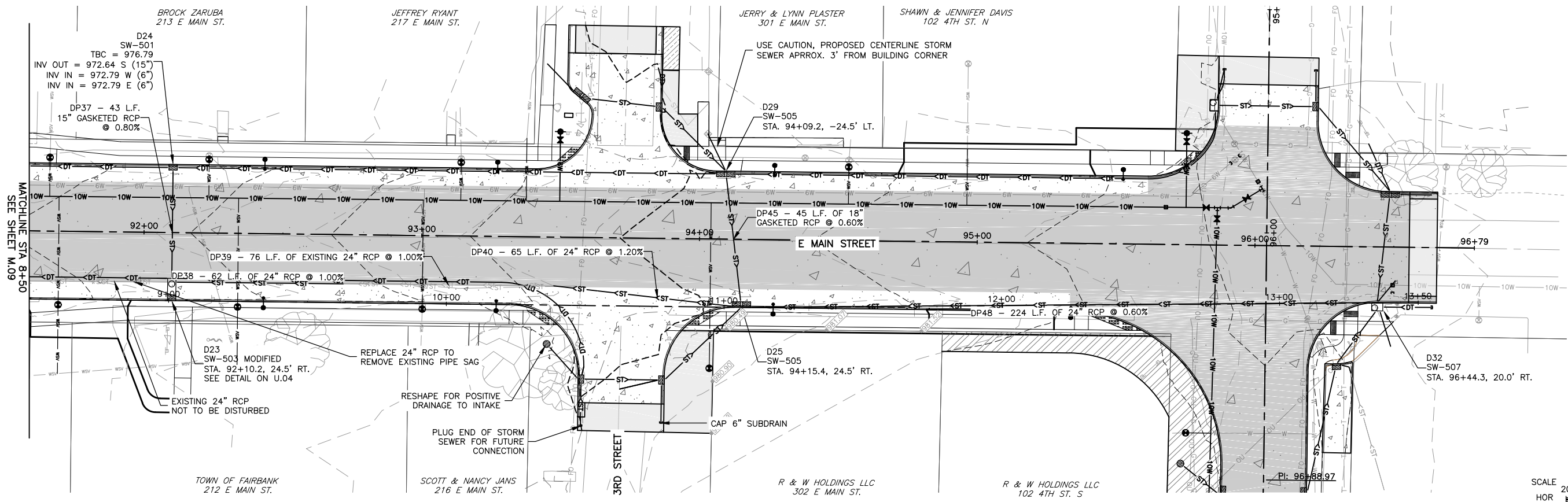
SET TYPE: **BID LETTING**

G:\C\2022\22-1100 Fairbank Hwy 28122-1100 DESIGN.dwg, M09 STORM - E MAIN (2)

JOB NUMBER:
22-1100

SHEET NUMBER:
M.09

NOTES:
 1. STORM SEWER TO BE GASKETED WHERE CROSSING WATER MAIN, MINIMUM 20 LF CENTERED OVER WATER MAIN.



NOTE:
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 FAIRBANK, IA 50629

PROJECT AND LOCATION:
 MAIN STREET IMPROVEMENTS
 FAIRBANK, IOWA
 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

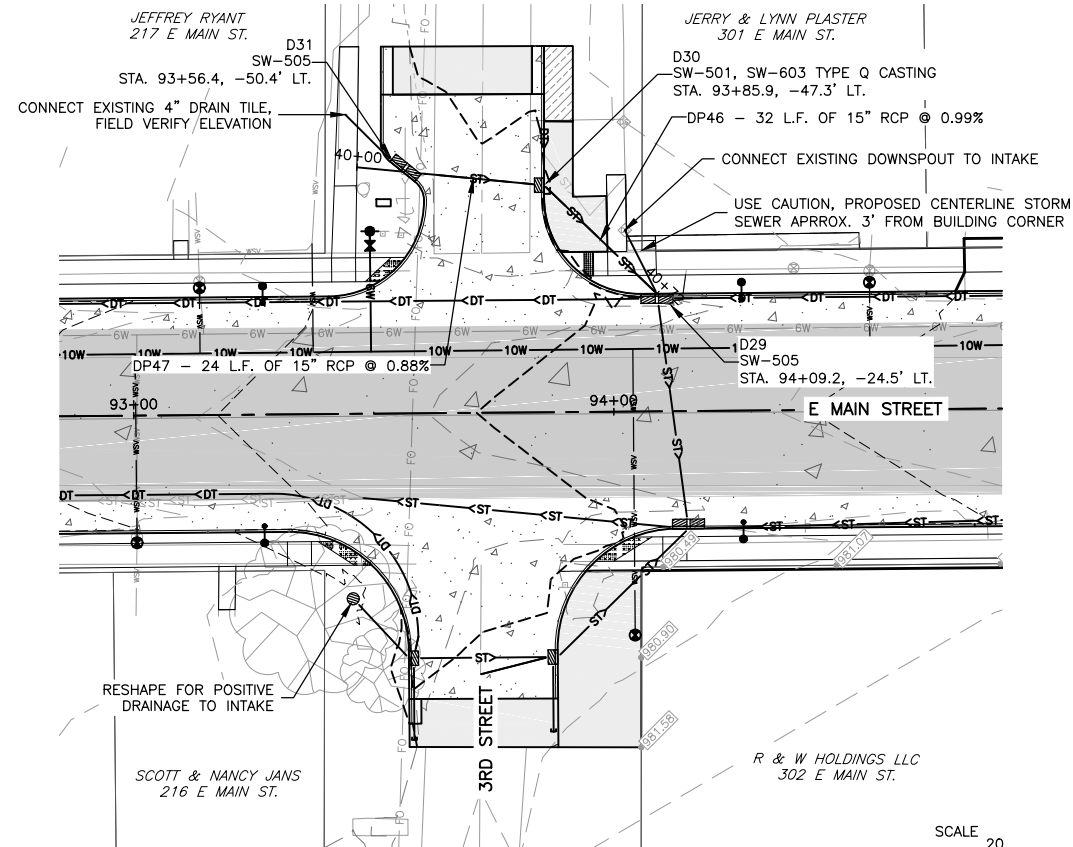
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 PLAN & PROFILE - STORM SEWER - E. MAIN STREET

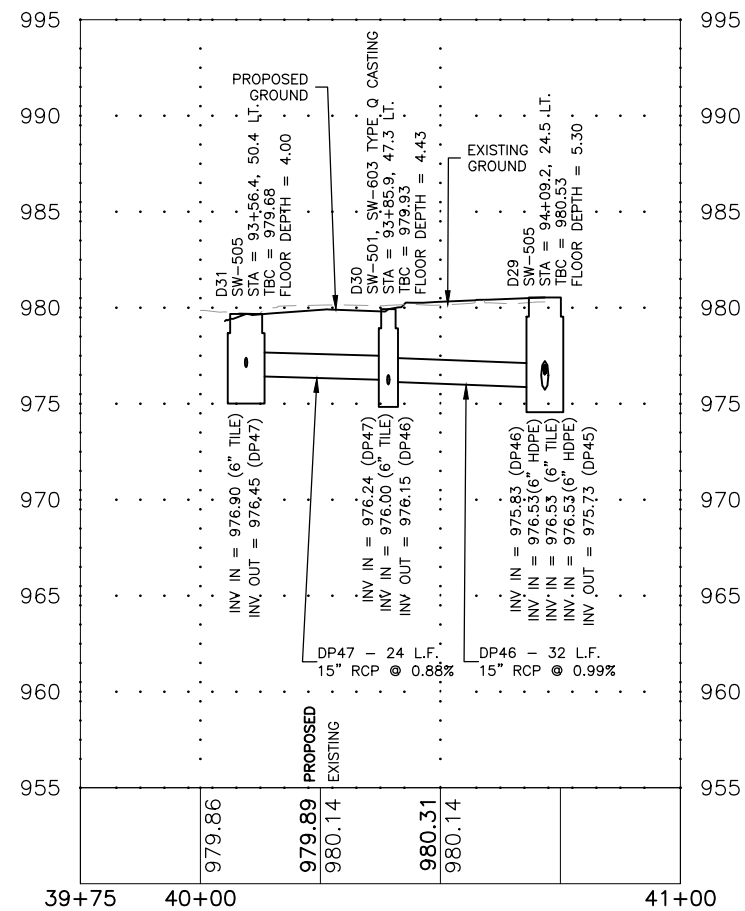
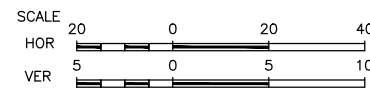
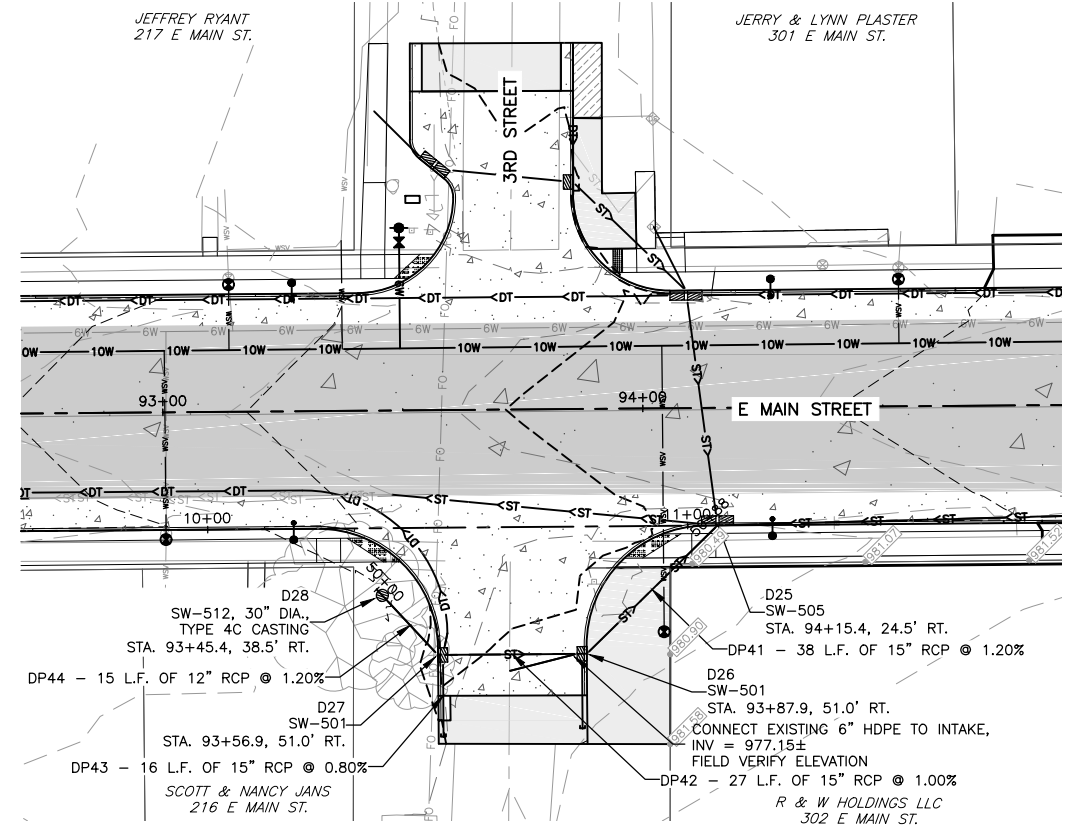
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JOB NUMBER:
 22-1100

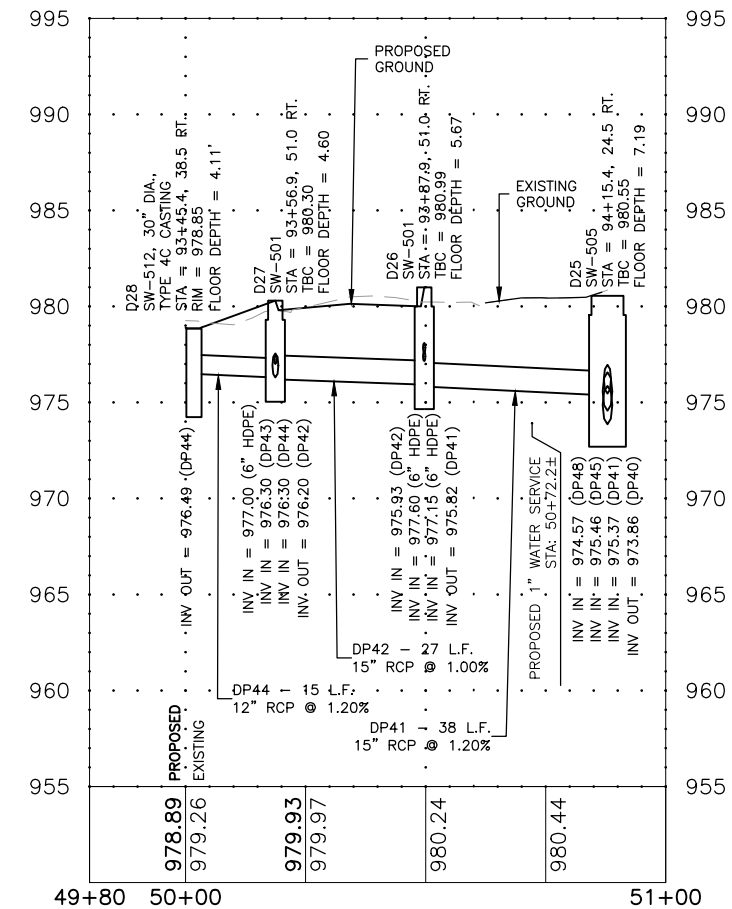
SHEET NUMBER:
 M.10



NOTES:
 1. STORM SEWER TO BE GASKETED WHERE CROSSING WATER MAIN, MINIMUM 20 LF CENTERED OVER WATER MAIN.



NOTE:
 PROFILE SHOWN AND STATIONING IS BASED ON PIPE ALIGNMENT/CENTERLINE. STRUCTURE STATION LABELS REFERENCE ROAD ALIGNMENT/CENTERLINE.



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 BUCHANAN COUNTY
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DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

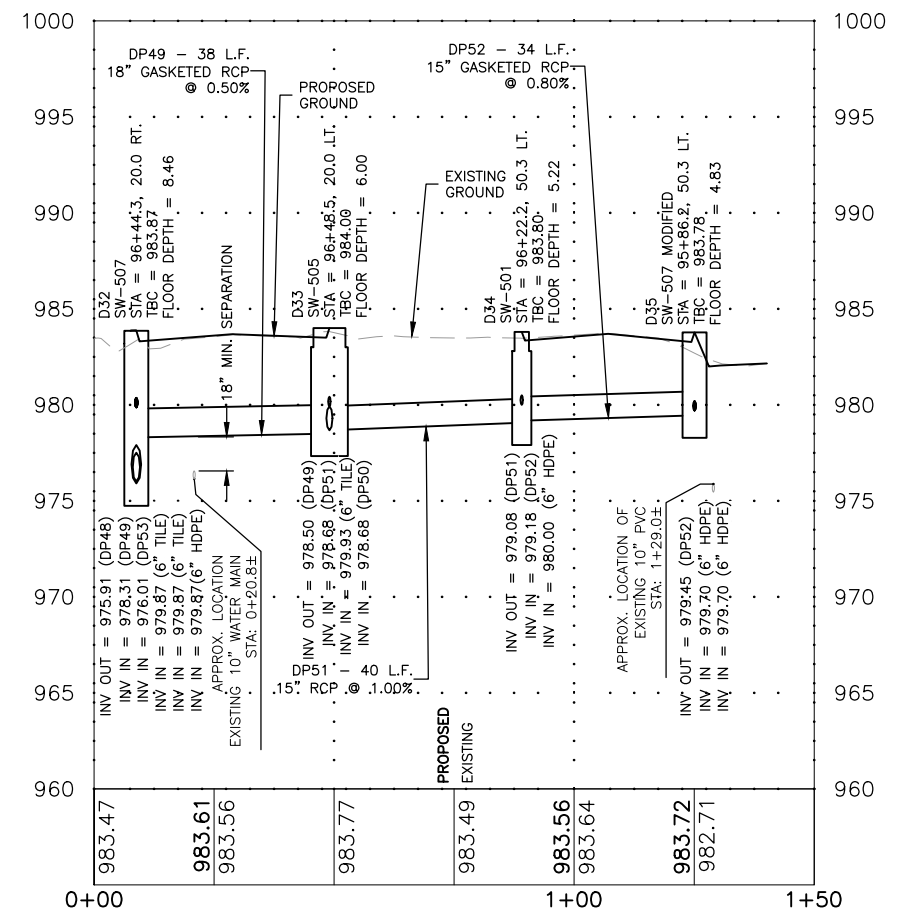
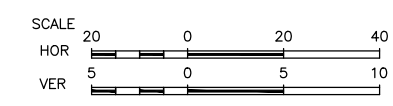
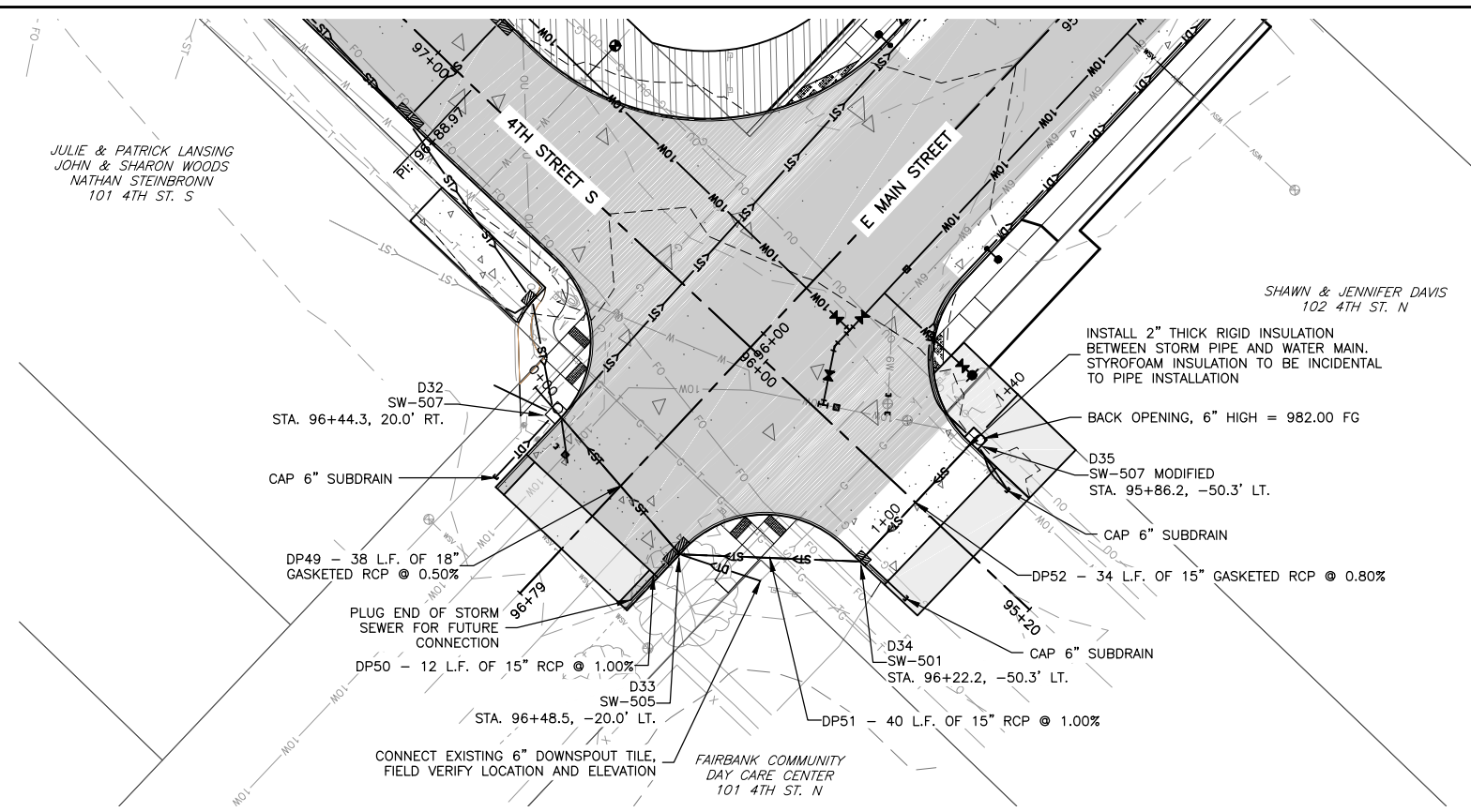
DRAWING:
 PLAN & PROFILE - STORM SEWER - E. MAIN STREET & 3RD STREET

SET TYPE: BID LETTING
 G:\C30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, M.11 STORM - 3RD

JOB NUMBER:
 22-1100

SHEET NUMBER:
 M.11

NOTES:
 1. STORM SEWER TO BE GASKETED WHERE CROSSING WATER MAIN, MINIMUM 20 LF CENTERED OVER WATER MAIN.



NOTE:
 PROFILE SHOWN AND STATIONING IS BASED ON PIPE ALIGNMENT/CENTERLINE. STRUCTURE STATION LABELS REFERENCE ROAD ALIGNMENT/CENTERLINE.

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DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

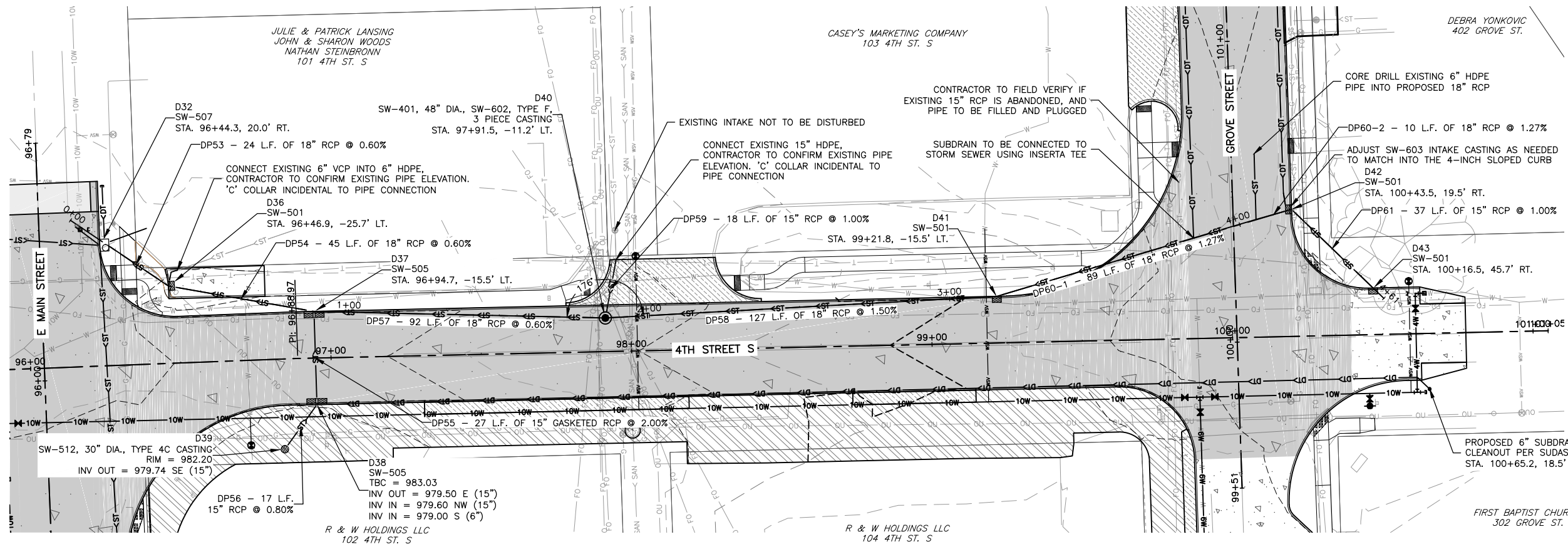
DRAWING:
 PLAN & PROFILE - STORM SEWER - 4TH STREET N

SET TYPE: BID LETTING

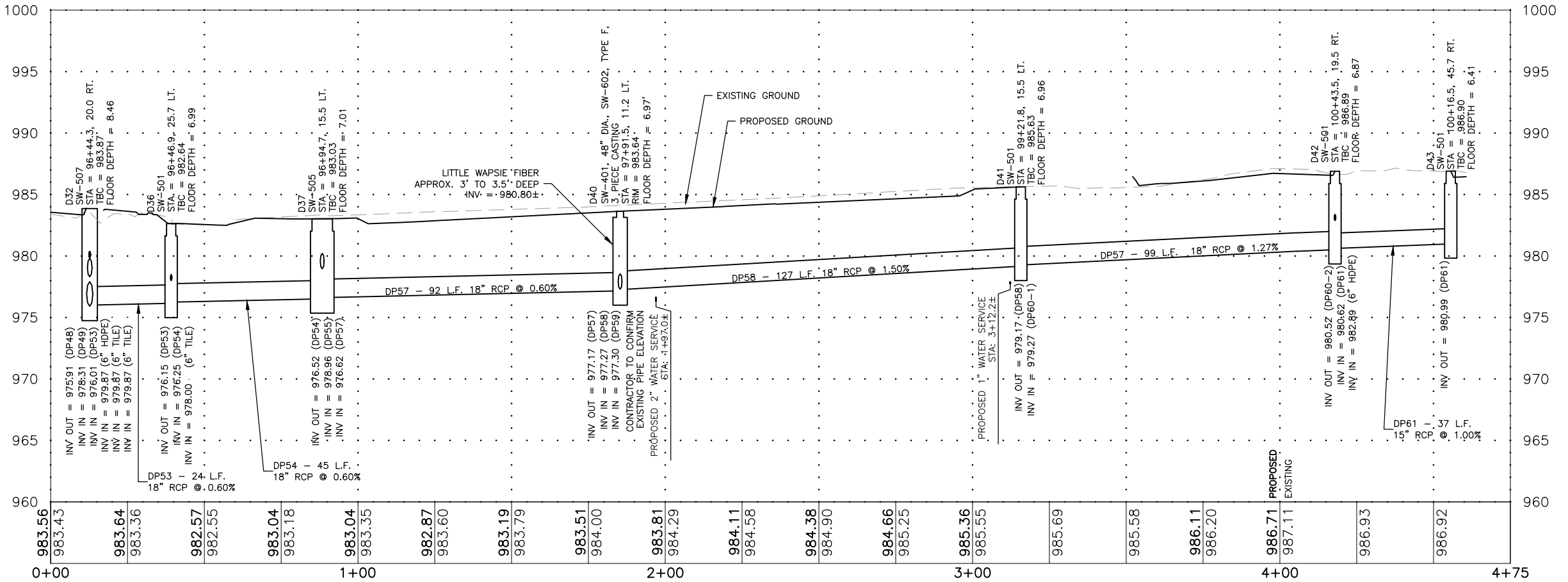
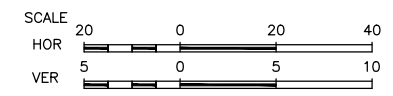
G:\(30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, M.12 STORM - EMAN (5)

JOB NUMBER:
 22-1100

SHEET NUMBER:
 M.12



NOTES:
 1. STORM SEWER TO BE GASKETED WHERE CROSSING WATER MAIN, MINIMUM 20' L CENTERED OVER WATER MAIN.



NOTE:
 PROFILE SHOWN AND STATIONING IS BASED ON PIPE ALIGNMENT/CENTERLINE. STRUCTURE STATION LABELS REFERENCE ROAD ALIGNMENT/CENTERLINE.

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OWNER/DEVELOPER:
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 116 EAST MAIN STREET
 FAIRBANK, IA 50629

PROJECT AND LOCATION:
 MAIN STREET IMPROVEMENTS
 FAIRBANK, IOWA
 BUCHANAN COUNTY
 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 PLAN & PROFILE - STORM SEWER - 4TH STREET S

SET TYPE: BID LETTING
 G:\C30\22-1100 Fairbank Hwy 281\22-1100 DESIGN.dwg, M.13 STORM - 4TH

JOB NUMBER:
 22-1100

SHEET NUMBER:
 M.13

CODE NOTES - ELECTRICAL

- A. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES.
- B. THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE SHALL BE THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH LOCAL OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
- C. INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG – AMERICANS WITH DISABILITIES ACT.
- D. REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.
- E. PROJECT SHALL COMPLY WITH BUILD AMERICA, BUY AMERICA (BABA) REQUIREMENTS AS NOTED UNDER ADOPTED INFRASTRUCTURE INVESTMENT AND JOBS ACT (IIJA). THIS WILL INCLUDE ALL PROJECT ASPECTS THAT FALL UNDER ONE OF FOLLOWING CATEGORIES:
 - a. PRODUCTS OF IRON AND STEEL
 - b. MANUFACTURED PRODUCTS
 - c. CONSTRUCTION MATERIALS

SITE NOTES - ELECTRICAL

- A. UTILITIES SHOWN ON ELECTRICAL SITE PLAN ARE SCHEMATIC ONLY. VERIFY ALL SITE CONDITIONS AND DIMENSIONS ON SITE PRIOR TO COMPLETING BID AND ORDERING OF EQUIPMENT.
- B. REPAIR ALL AFFECTED SURFACES AND RESTORE TO EXISTING CONDITIONS AT COMPLETION OF PROJECT.
- C. WARNING - CALL 48 HOURS BEFORE YOU DIG: - IOWA LAW REQUIRES ANYONE DOING ANY EXCAVATION, FENCING, PLANTING OR DRILLING TO CALL 48 HOURS IN ADVANCE. HAND DIG WITHIN 18 INCHES OF ANY LOCATE MARK OR FLAG. IOWA ONE-CALL 1-800-292-8989.

INSTALLATION NOTES - ELECTRICAL

- A. RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE GENERAL AND APPROXIMATE LOCATIONS. LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- B. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. E.C. IS RESPONSIBLE FOR MODIFYING CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- C. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT UTILIZE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
- D. BALANCE PANEL LOADS DURING INSTALLATION. CIRCUIT NUMBERING SHOWN ON PLANS MAY BE ADJUSTED TO ACCOMODATE.
- E. PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED AS A RESULT OF THIS PROJECT. UTILIZE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES AND RECEIVE APPROVAL PRIOR TO FINAL PLACEMENT.



GENERAL NOTE:

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN SHOWN BASED UPON INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES, AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS ALSO POSSIBLE THAT THERE MAY BE OTHER UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES IN EXISTENCE THAT ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL PARTY REFERENCING THIS PLAN TO DETERMINE THE EXACT LOCATION AND TYPE OF UNDERGROUND FACILITIES ON THE SITE. HAND EXCAVATE AT CRITICAL POINTS AS NECESSARY TO VERIFY LOCATIONS, SIZES, ELEVATIONS, FLOW LINES, ETC. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING.

GENERAL NOTES - ELECTRICAL

- A. ALL CONDUIT AND CONDUCTOR SIZES HAVE BEEN SIZED WITH THWN COPPER WIRING. COORDINATE ALL SIZES AND CHANGES WITH ENGINEER BEFORE PROCEEDING.
- B. ALL CONDUITS TO BE INSTALLED 30"+ BELOW GRADE TO MEET DOT STANDARDS.
- C. CUT SHEET/PICTURES HAVE BEEN INCLUDED IN THESE DOCUMENTS FOR REFERENCE ONLY. SHOP DRAWINGS AND OWNERS MANUALS WILL BE REQUIRED AT SUBSTANTIAL COMPLETION.
- D. LOCATIONS OF POLES/FIXTURES ON DRAWINGS ARE SHOWN FOR THE BEST LIGHTING COVERAGE. REVIEW SITE PLANS, SURVEYS, UTILITY LOCATIONS, EASEMENT, AND ALL OTHER UNGEROUND FACILITIES BEFORE PROCEEDING WITH DIGGING AND INSTALLATION OF FIXTURES. MOUNT POLES 2'-3" BACK FROM NEW CURB.

LIGHTING SYMBOLS	
	EXTERIOR POLE MOUNTED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
	LIGHTING CONTACTOR
	PHOTOCELL
	DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT +24", OR AS NOTED
	PANELBOARD - SURFACE MOUNTED

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116 EAST MAIN
STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET
IMPROVEMENTS
FAIRBANK, IOWA

DRAWN BY: KCL
APPROVED BY: KCL
DATE: 10/27/2022
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
ELECTRICAL NOTES & SYMBOLS

SET TYPE: BID LETTING

JOB NUMBER:
22-1100

SHEET NUMBER:
P.01

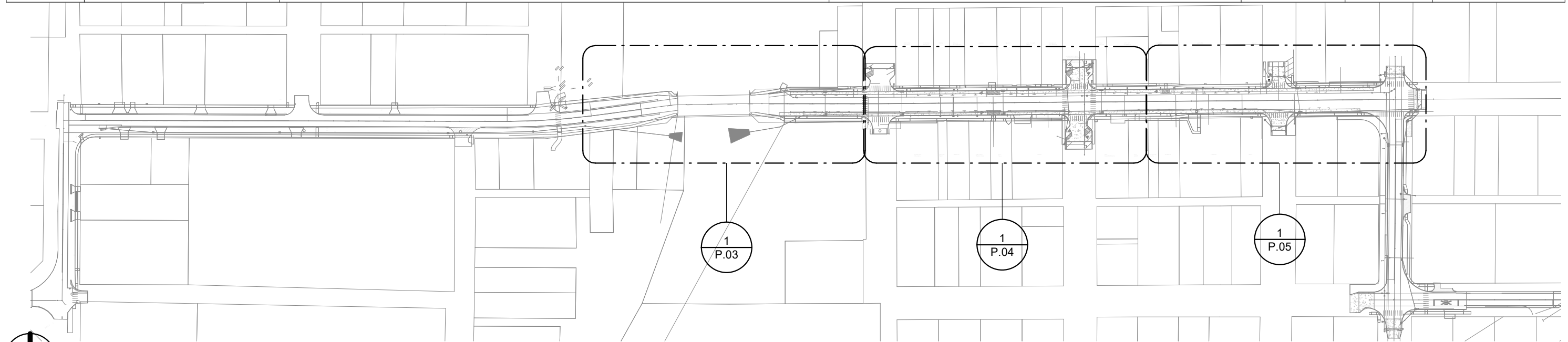
LIGHTING FIXTURE SCHEDULE

NOTES:

1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.
2. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
3. REFER TO CIVIL ENGINEERING DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES.
4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.
5. MATERIALS SHALL COMPLY WITH BUILD AMERICA, BUY AMERICA (BABA) REQUIREMENTS AS NOTED UNDER ADOPTED INFRASTRUCTURE INVESTMENT AND JOBS ACT (IIJA).
6. PROVIDE (1) COMPLETE ADDITIONAL P1 PACKAGE ASSEMBLY FOR OWNER SPARE PARTS USE. PROVIDE SPARE PARTS, FIXTURE, POLE, ACCESSORIES ETC.

DESIGNED BY: JTL

TYPE	MANUFACTURER	MODEL	DESCRIPTION	VOLTAGE	LOAD-VA	LAMP TYPE
P1	HOLOPHANE	(1) MPL3-P20S-40K-MVOLT-TG2-QSM-BK-AO (FIXTURE) (1) BHC-48IN-1A-TN-SL5-BK-QSM (ARM) (1) SLA-22-SL5-SB-CO5-BK-ABG-RP240A & AB-27-4 WITH TMP40017 (POLE) (2) BA-24IN-1A-BO-SL5-HB-100P-BK (BANNER) (1) PBA-24IN-1A-BO-SL5-HB-100P-BK (FLOWER BASKET) (1) FGB (POLE BASE RECEIPT) (1) FGIUS-BK-NON GFCI (POLE MOUNTED RECEIPT) (1) FPH-2F-BO-SL5-100P-BK (DUAL FLAG HOLDER) (6) STANDARD TRACK BOLTS FOR SLA POLE (2) 45-DEGREE TRACK BOLTS FOR SLA POLE	POST TOP TENON MOUNTED TEAR DROP LED LIGHT WITH 48" FIXTURE ARM WITH QUICK CONNECT. MINIMUM 11,000 LUMENS AT TYPE 2 DISTRIBUTION. MOUNT TO 22'-0" TALL 5" SQUARE EXTRUDED ALUMINUM POLE USING 3"X5" TENON. PROVIDE POLE ACCESSORIES AS NOTED AND FIELD VERIFY LOCATIONS / HEIGHTS WITH OWNER. ALL MATERIALS BLACK FINISH.	120 V	73 VA	LED 4,000K CCT
P2	HOLOPHANE	SIMILAR TO P1 WITH SAME ACCESSORIES.	SIMILAR TO P1 BUT FOR BRIDGE. MOUNT TO EXISTING FOUNDATIONS AND REUSE ANCHOR BOLTS. NOTIFY ENGINEER IF ANCHOR BOLTS ARE UNUSABLE.	120 V	73 VA	LED 4,000K CCT



1 SITE ELECTRICAL - REFERENCE PLAN
1" = 200'-0"

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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET
IMPROVEMENTS
FAIRBANK, IOWA

DRAWN BY: KCL
APPROVED BY: KCL
DATE: 10/27/2022
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
SITE REFERENCE AND FIXTURE SCHEDULE
SET TYPE: BID LETTING

JOB NUMBER:
22-1100

SHEET NUMBER:
P.02

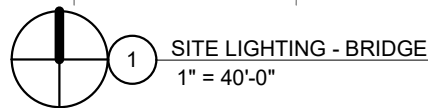
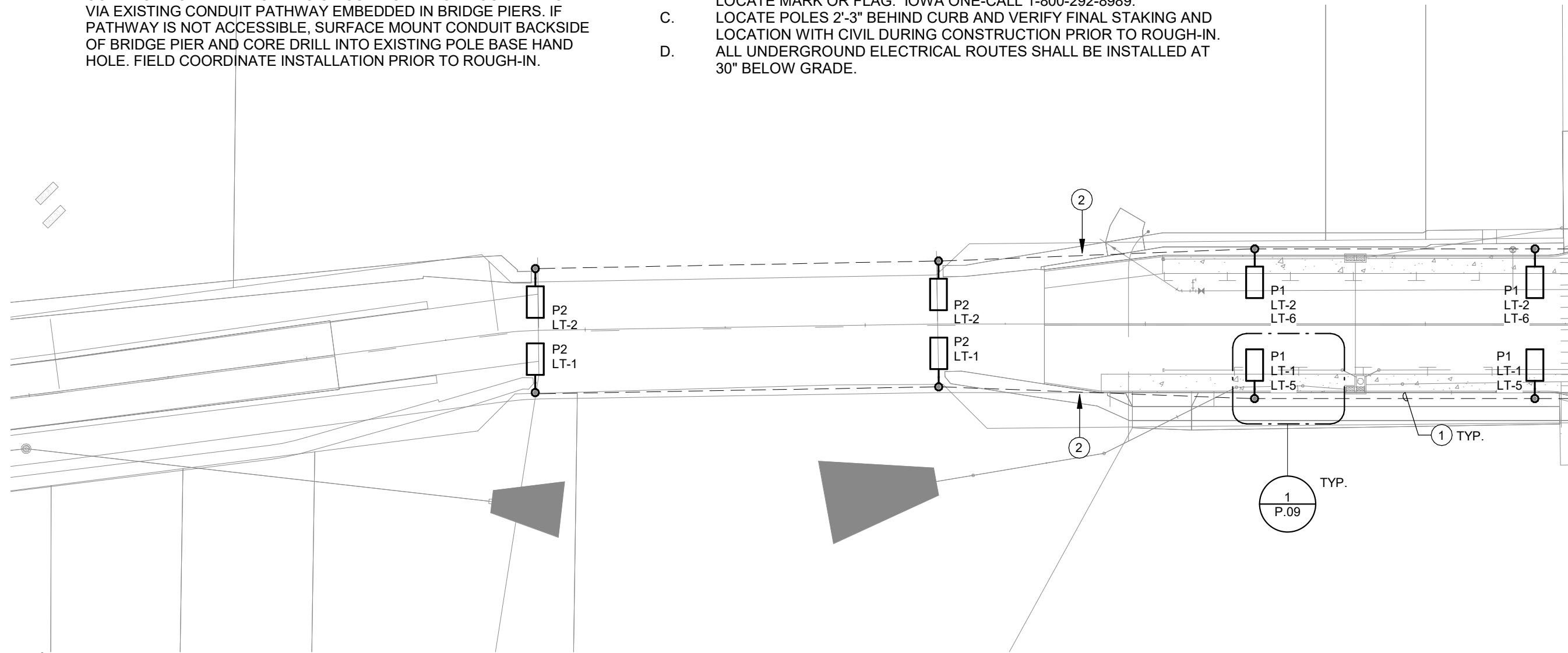
KEYNOTES

#

- 1 (2) 120V CIRCUITS IN SAME TRENCH TO EACH POLE. (1) ROADWAY LIGHTING BRANCH CIRCUIT USING MINIMUM #3 COPPER CONDUCTORS IN 1" PVC SCH. 80 CONDUIT. (1) WEATHERPROOF GFCI PROTECTED RECEPTACLE CIRCUIT USING MINIMUM #3 COPPER CONDUCTORS IN 1" PVC SCH. 80 CONDUIT.
- 2 CONTINUE ROADWAY LIGHTING CIRCUIT TO BRIDGE MOUNTED POLES VIA EXISTING CONDUIT PATHWAY EMBEDDED IN BRIDGE PIERS. IF PATHWAY IS NOT ACCESSIBLE, SURFACE MOUNT CONDUIT BACKSIDE OF BRIDGE PIER AND CORE DRILL INTO EXISTING POLE BASE HAND HOLE. FIELD COORDINATE INSTALLATION PRIOR TO ROUGH-IN.

GENERAL SITE ELECTRICAL NOTES

- A. UTILITIES SHOWN ON ELECTRICAL SITE PLAN ARE SCHEMATIC ONLY. VERIFY SITE CONDITIONS AND DIMENSIONS PRIOR TO COMPLETING BID AND ORDERING OF EQUIPMENT.
- B. WARNING -CALL 48 HOURS BEFORE YOU DIG: -IOWA LAW REQUIRES ANYONE DOING ANY EXCAVATION, FENCING, PLANTING OR DRILLING TO CALL 48 HOURS IN ADVANCE. HAND DIG WITHIN 18 INCHES OF ANY LOCATE MARK OR FLAG. IOWA ONE-CALL 1-800-292-8989.
- C. LOCATE POLES 2'-3" BEHIND CURB AND VERIFY FINAL STAKING AND LOCATION WITH CIVIL DURING CONSTRUCTION PRIOR TO ROUGH-IN.
- D. ALL UNDERGROUND ELECTRICAL ROUTES SHALL BE INSTALLED AT 30" BELOW GRADE.



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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET
IMPROVEMENTS
FAIRBANK, IOWA

DRAWN BY: KCL
APPROVED BY: KCL
DATE: 10/27/2022
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
SITE LIGHTING - BRIDGE
SET TYPE: BID LETTING

JOB NUMBER:
22-1100
SHEET NUMBER:
P.03

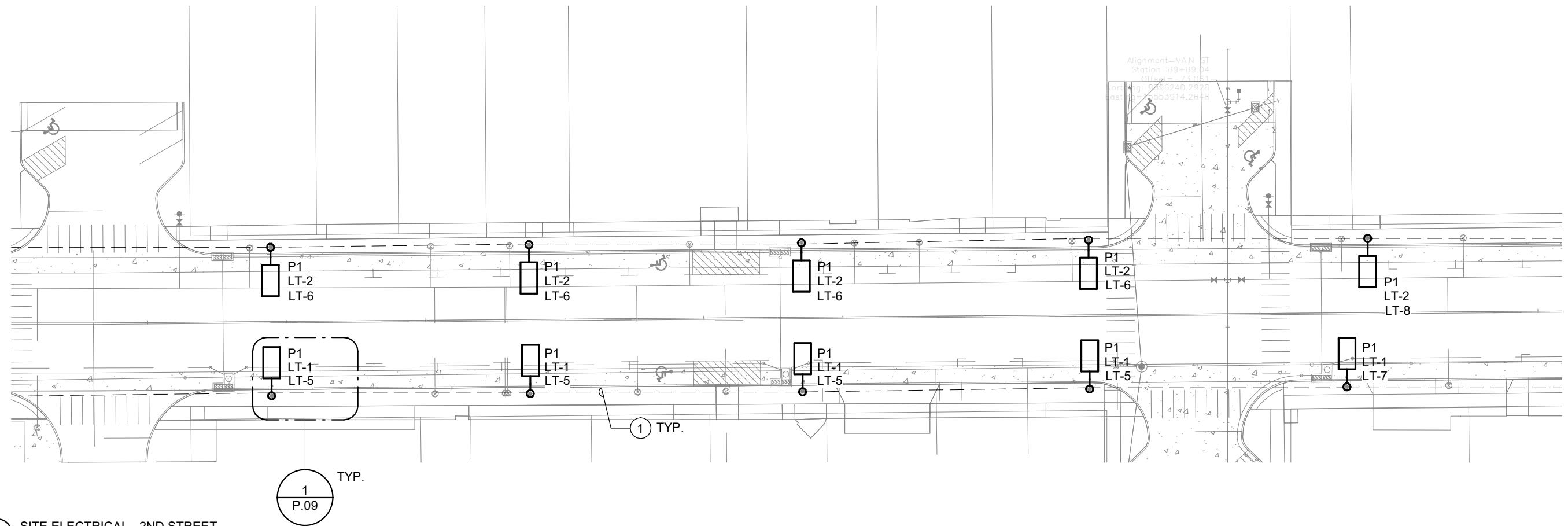
KEYNOTES

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1 SITE ELECTRICAL - 2ND STREET
1" = 40'-0"

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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET
IMPROVEMENTS
FAIRBANK, IOWA

DRAWN BY: KCL
APPROVED BY: KCL
DATE: 10/27/2022
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
SITE LIGHTING - 2ND STREET

SET TYPE: BID LETTING

JOB NUMBER:
22-1100

SHEET NUMBER:
P.04

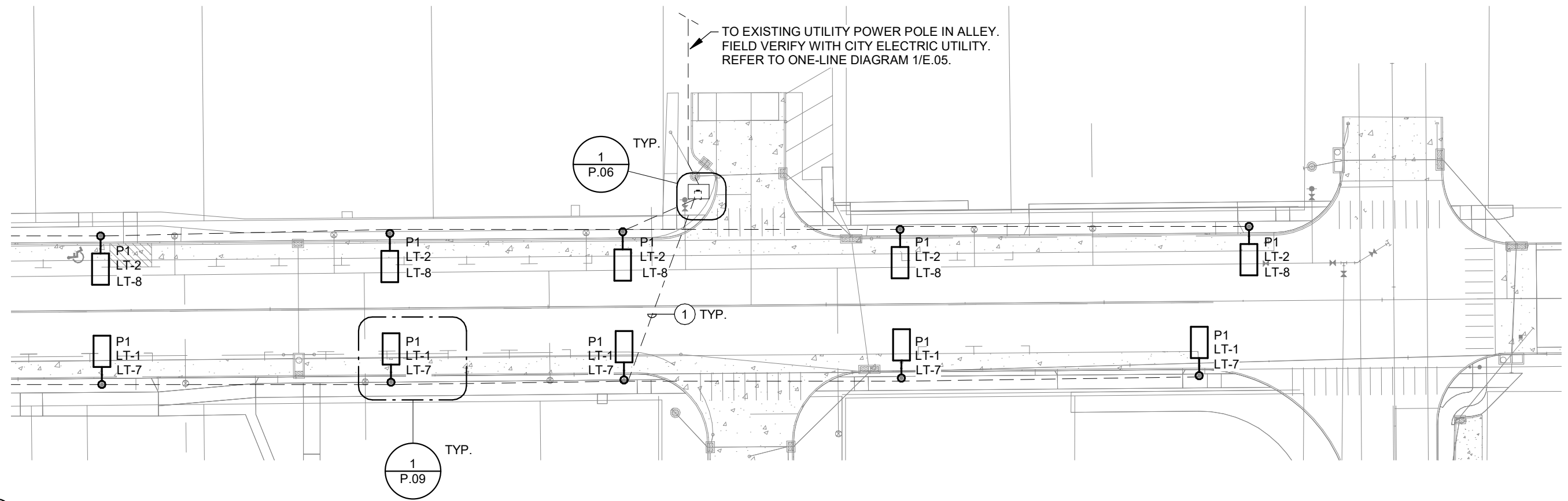
KEYNOTES

#

- 1 (2) 120V CIRCUITS IN SAME TRENCH TO EACH POLE. (1) ROADWAY LIGHTING BRANCH CIRCUIT USING MINIMUM #3 COPPER CONDUCTORS IN 1" PVC SCH. 80 CONDUIT. (1) WEATHERPROOF GFCI PROTECTED RECEPTACLE CIRCUIT USING MINIMUM #3 COPPER CONDUCTORS IN 1" PVC SCH. 80 CONDUIT.

GENERAL SITE ELECTRICAL NOTES

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- C. LOCATE POLES 2'-3" BEHIND CURB AND VERIFY FINAL STAKING AND LOCATION WITH CIVIL DURING CONSTRUCTION PRIOR TO ROUGH-IN.
- D. ALL UNDERGROUND ELECTRICAL ROUTES SHALL BE INSTALLED AT 30" BELOW GRADE.



1 SITE ELECTRICAL - 3RD STREET
1" = 40'-0"

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116 EAST MAIN
STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET
IMPROVEMENTS
FAIRBANK, IOWA

DRAWN BY: KCL
APPROVED BY: KCL
DATE: 10/27/2022
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
SITE LIGHTING - 3RD STREET

SET TYPE: BID LETTING

JOB NUMBER:
22-1100

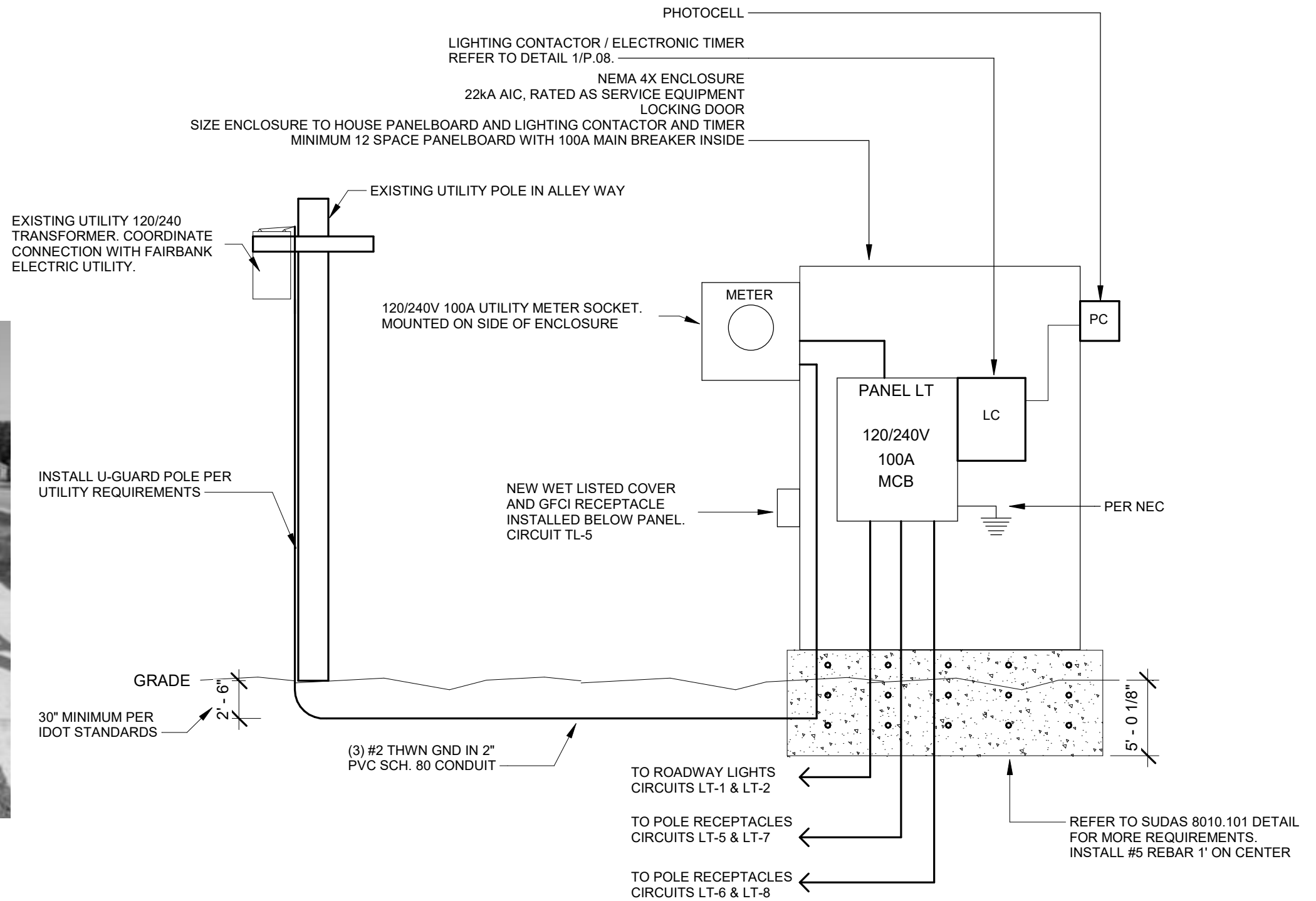
SHEET NUMBER:
P.05

RISER DIAGRAM GENERAL NOTES

- A. DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.
- B. USE COPPER CONDUCTORS UNLESS OTHERWISE INDICATED.
- C. MATCH NEUTRAL CONDUCTOR SIZE TO THE PHASE CONDUCTORS UNLESS OTHERWISE NOTED.
- D. ALL WIRING SHALL BE IN RACEWAY AS NOTED. REFER TO SPECIFICATIONS FOR CONDUIT APPLICATION REQUIREMENTS.
- E. INSTALL UTILITY TRANSFORMER PAD, METERING EQUIPMENT, AND SERVICE ENTRANCE FEEDERS IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.



ENCLOSURE EXAMPLE OF NEW EQUIPMENT AT 3RD AND MAIN STREET



1 ONE-LINE DIAGRAM
NOT TO SCALE

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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET
IMPROVEMENTS
FAIRBANK, IOWA

DRAWN BY: KCL
APPROVED BY: KCL
DATE: 10/27/2022
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
ELECTRICAL ONE-LINE DIAGRAM
SET TYPE: BID LETTING

JOB NUMBER:
22-1100
SHEET NUMBER:
P.06

BRANCH PANEL: LT

LOCATION: 3RD & MAIN ST.
SUPPLY FROM: UTILITY
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 120/240 SINGLE
PHASES: 1
WIRES: 3

SCCR RATING: 22,000 A
MAINS TYPE: MCB
MAINS RATING: 100 A
MCB RATING: 100 A

NOTES:
 MOUNTED INSIDE OF NEMA 4X ENCLOSURE AS SHOWN ON P.06. SUPPLY WITH INTEGRAL SPD.

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A		B		CKT NO	AMP	P	CIRCUIT DESCRIPTION
SOUTH ROADWAY LIGHTING	1	20 A	1	1022	1022			2	20 A	1	NORTH ROADWAY LIGHTING
EXTERIOR RECEPTACLE	1	-- 20 A	3			180	1080	4	20 A --	1	NORTH POLE MT. RECEPTACLES (3RD ST.) "G"
SOUTH POLE MT. RECEPTACLES (2ND ST.) "G"	1	-- 20 A	5	1080	1080			6	20 A --	1	NORTH POLE MT. RECEPTACLES (2ND ST.) "G"
SOUTH POLE MT. RECEPTACLES (3RD ST.) "G"	1	-- 20 A	7			1080	0	8	20 A --	2	INTEGRAL SPD
SPARE	1	-- 20 A	9	0	0			10			
SPARE	1	-- 20 A	11			0	0	12	20 A --	1	SPARE
				4204 VA		2340 VA					
				35 A		20 A					

LEGEND:
 "G" INDICATES GFCI TYPE BREAKER.

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
LIGHTING	2044 VA	125.00%	2555 VA		
Spare	4500 VA	100.00%	4500 VA	TOTAL CONN. LOAD:	6544 VA
				TOTAL EST. DEMAND:	7055 VA
				TOTAL CONN.:	27 A
				TOTAL EST. DEMAND:	29 A

NOTES:

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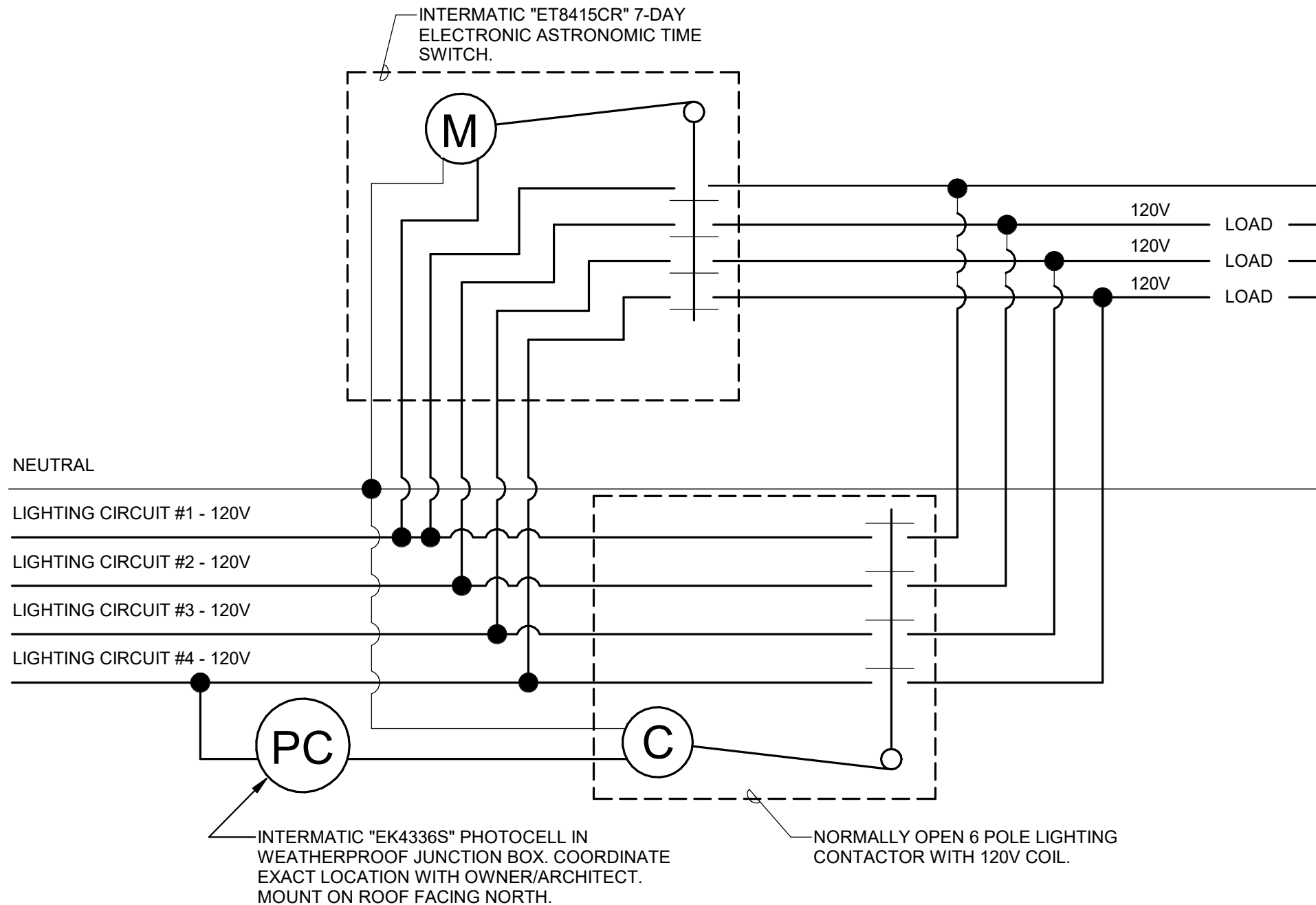
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 ELECTRICAL SCHEDULES

SET TYPE: BID LETTING

JOB NUMBER:
 22-1100

SHEET NUMBER:
 P.07



○ SITE LIGHTING TIME SWITCH
NOT TO SCALE

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REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
ELECTRICAL DETAILS

SET TYPE: BID LETTING

JOB NUMBER:
22-1100

SHEET NUMBER:
P.08

NOTE:
GROUND PER N.E.C./SPECIFICATIONS
ALL CONCRETE 4000 P.S.I.

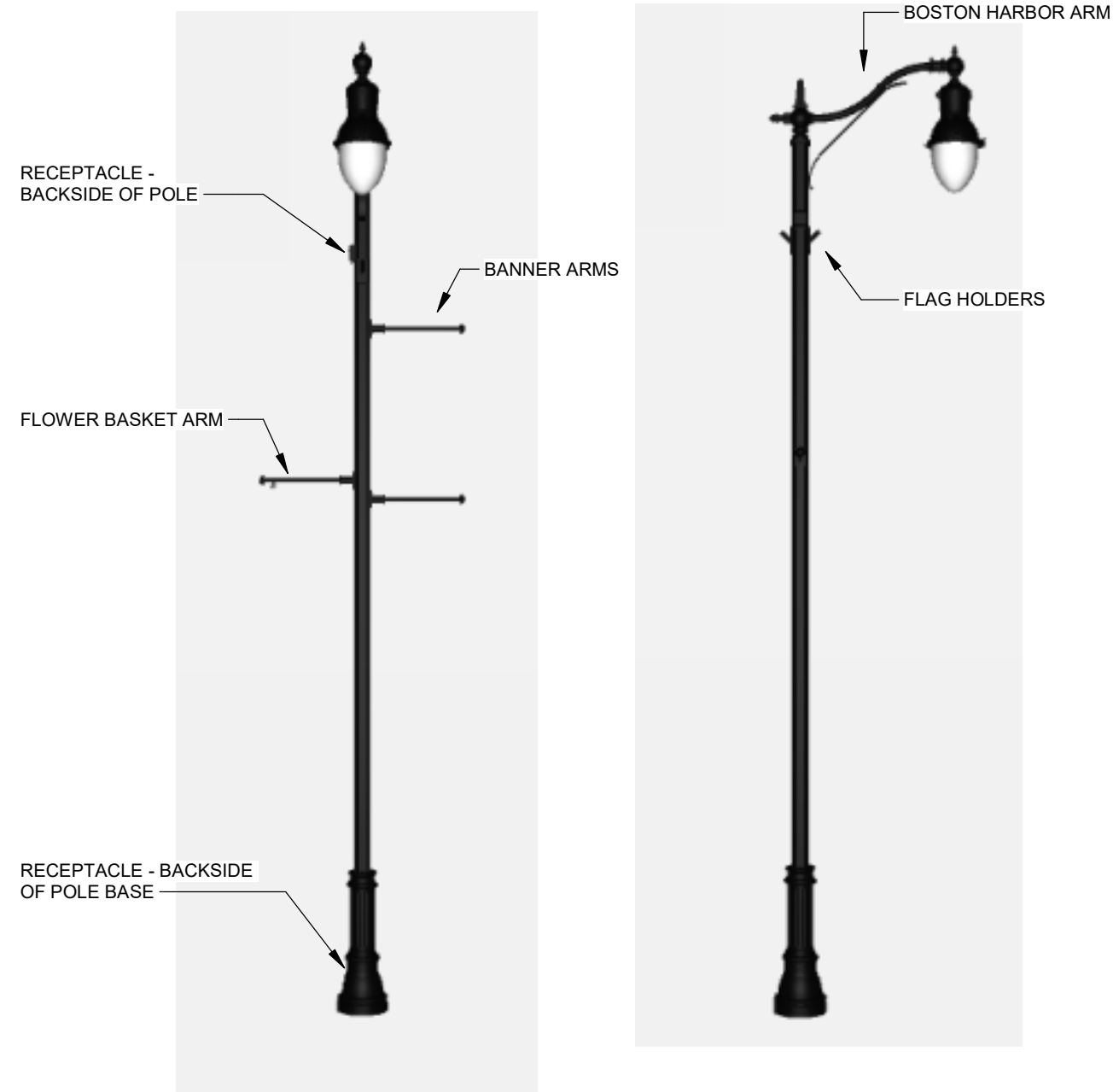
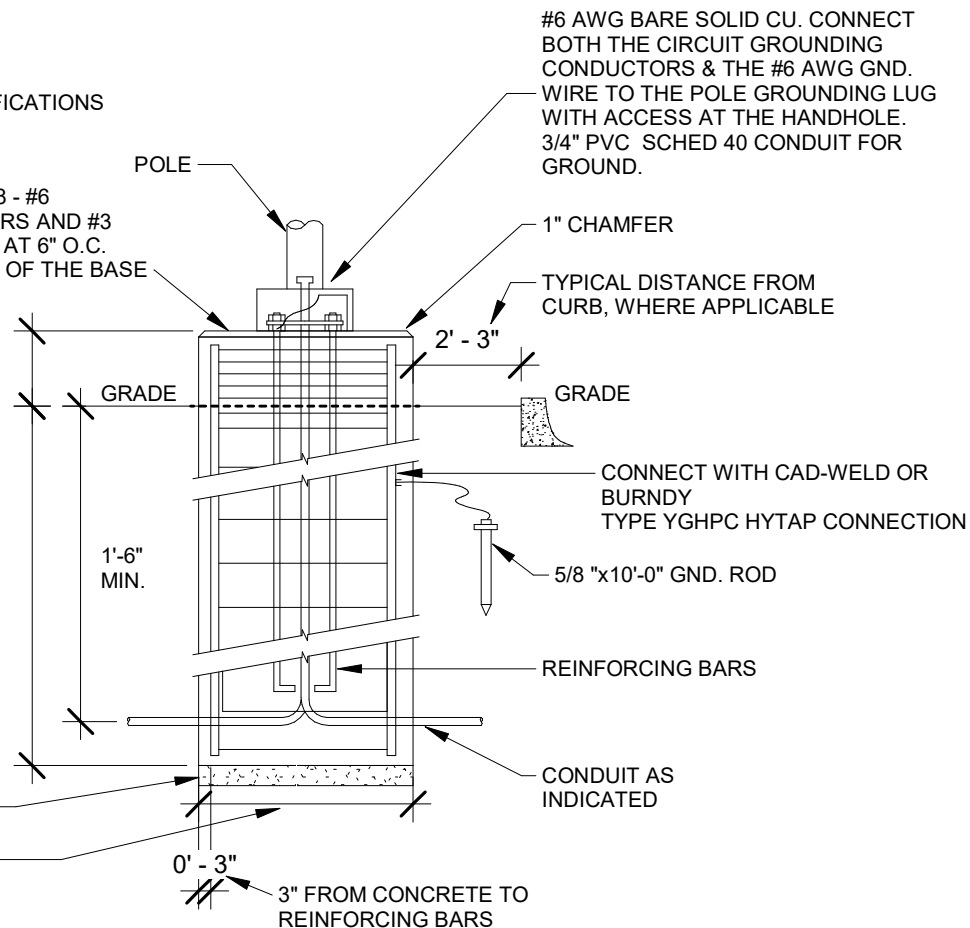
2'-0" DIAMETER BASE WITH 8 - #6
VERTICAL REINFORCING BARS AND #3
HORIZONTAL REINFORCING AT 6" O.C.
AND 3" O.C. ON THE TOP 18" OF THE BASE

POLES 14'-0" AND OVER = 2"
WITH 1" CHAMFER

POLES 14' TO 30' = 6'-0"

6" CRUSHED STONE
TAMPED FOOTING
(1/2 pr 3/8 STONE)

POLES 14'-0" TO 30'-0" =
24" SONOTUBE



1 LIGHTING POLE BASE - POURED IN PLACE
NOT TO SCALE

2 P1 POLE SECTIONS
NOT TO SCALE

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APPROVED BY: KCL
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DRAWING:
ELECTRICAL DETAILS
SET TYPE: BID LETTING

JOB NUMBER:
22-1100

SHEET NUMBER:
P.09

- ① Shape top 11 inches with forms.
- ② Bolt spacing and conduit locations as specified by the manufacturer.
- ③ Provide apron on three sides of cabinet if cabinet has front and back doors.

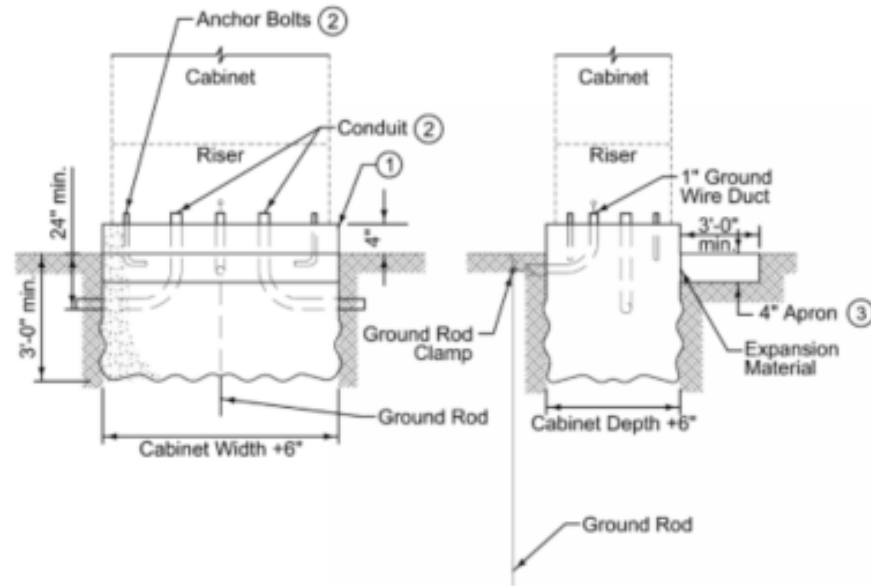


FIGURE 8010.101 SHEET 1 OF 1

	REVISION
	1 2022 EdWin
8010.101	SHEET 1 of 1
SUDAS Standard Specifications	
CABINET FOOTING DETAILS	

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West Des Moines, IA
50265
515-724-7938

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
CITY OF FAIRBANK
116 EAST MAIN
STREET
FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET
IMPROVEMENTS
FAIRBANK, IOWA

DRAWN BY: KCL
APPROVED BY: KCL
DATE: 10/27/2022
SCALE: AS NOTED

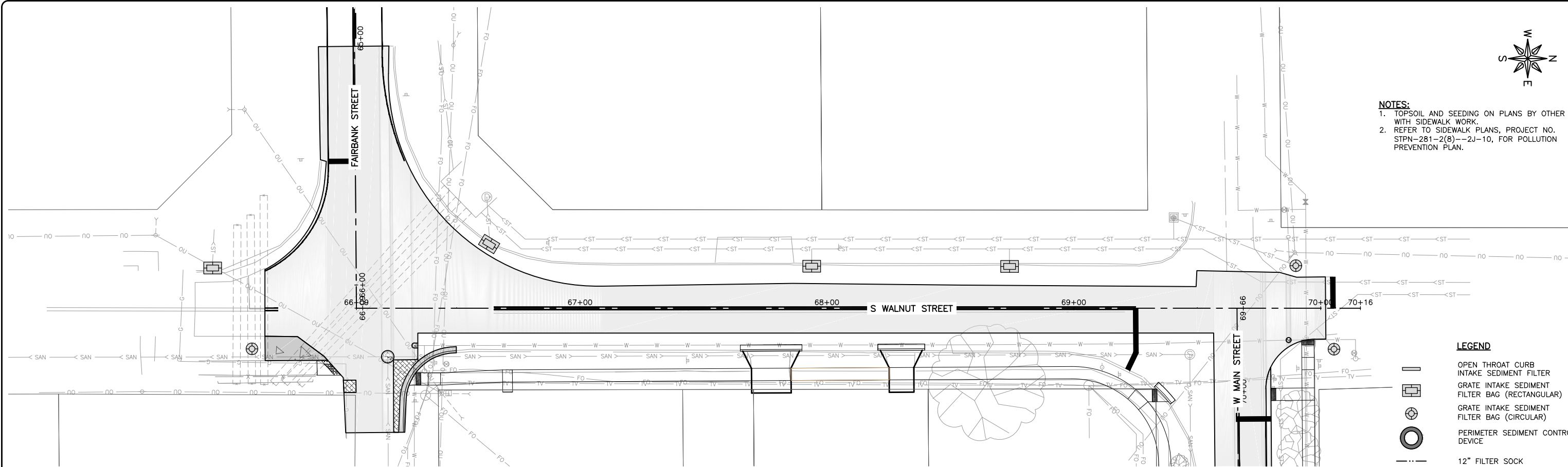
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
ELECTRICAL DETAILS
SET TYPE: BID LETTING

JOB NUMBER:
22-1100
SHEET NUMBER:
P.10

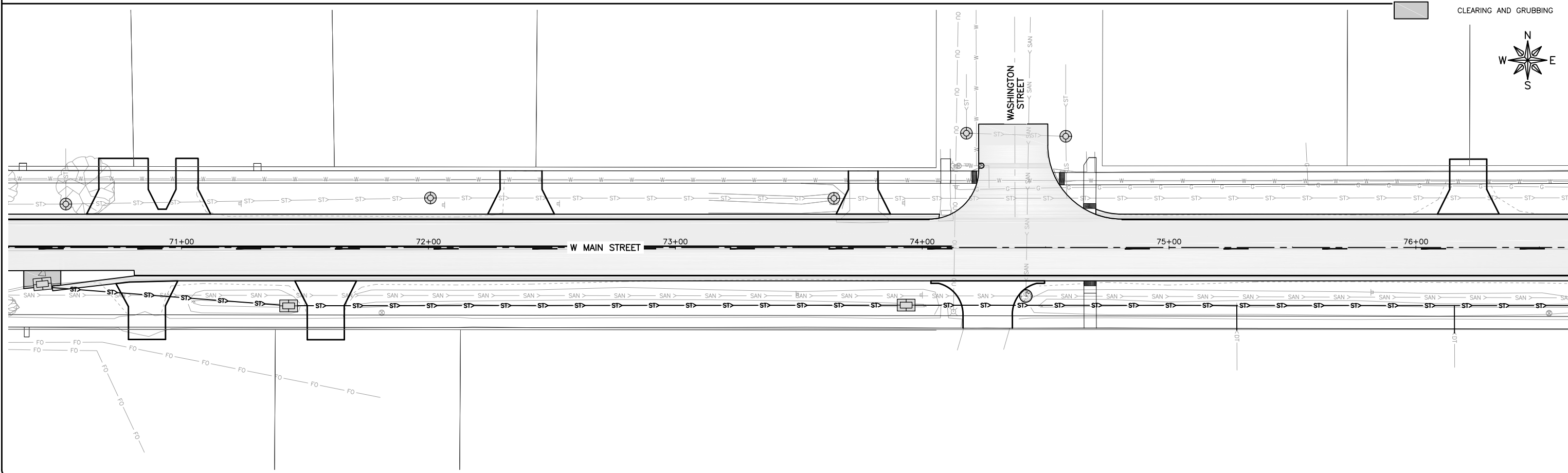


- NOTES:**
1. TOPSOIL AND SEEDING ON PLANS BY OTHER WITH SIDEWALK WORK.
 2. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR POLLUTION PREVENTION PLAN.



LEGEND

- OPEN THROAT CURB
- INTAKE SEDIMENT FILTER
- FILTER BAG (RECTANGULAR)
- FILTER BAG (CIRCULAR)
- PERIMETER SEDIMENT CONTROL DEVICE
- 12" FILTER SOCK
- CLEARING AND GRUBBING



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PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

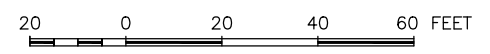
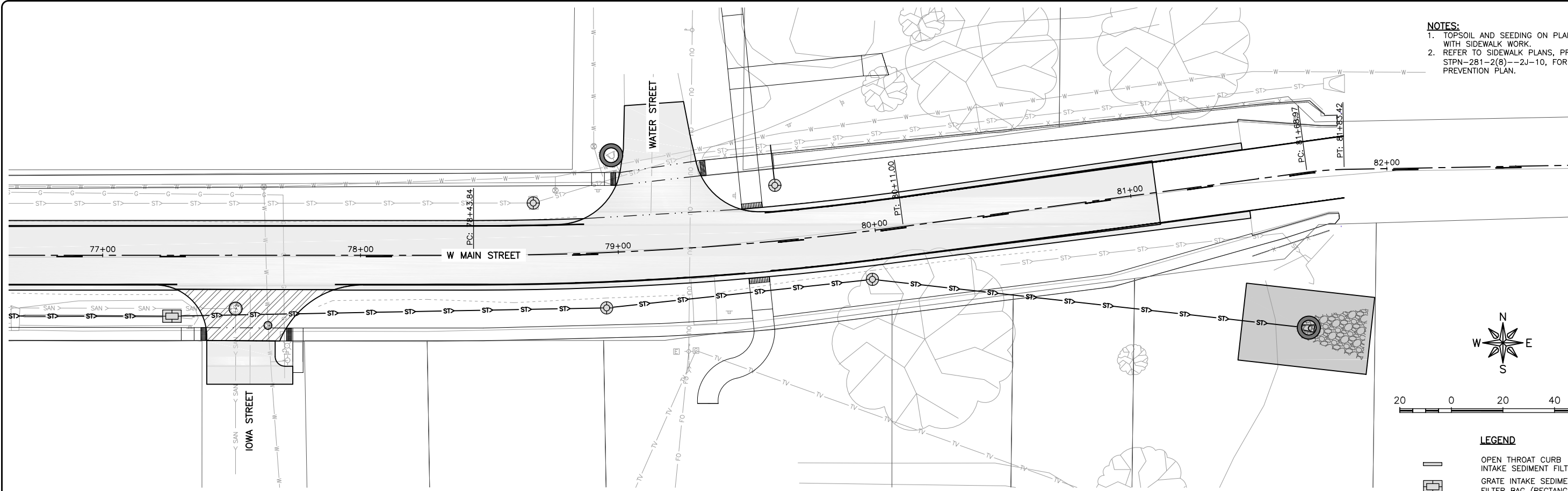
DRAWING:
EROSION CONTROL PLAN

SET TYPE: BID LETTING
G:\C30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, RC.01

JOB NUMBER:
22-1100

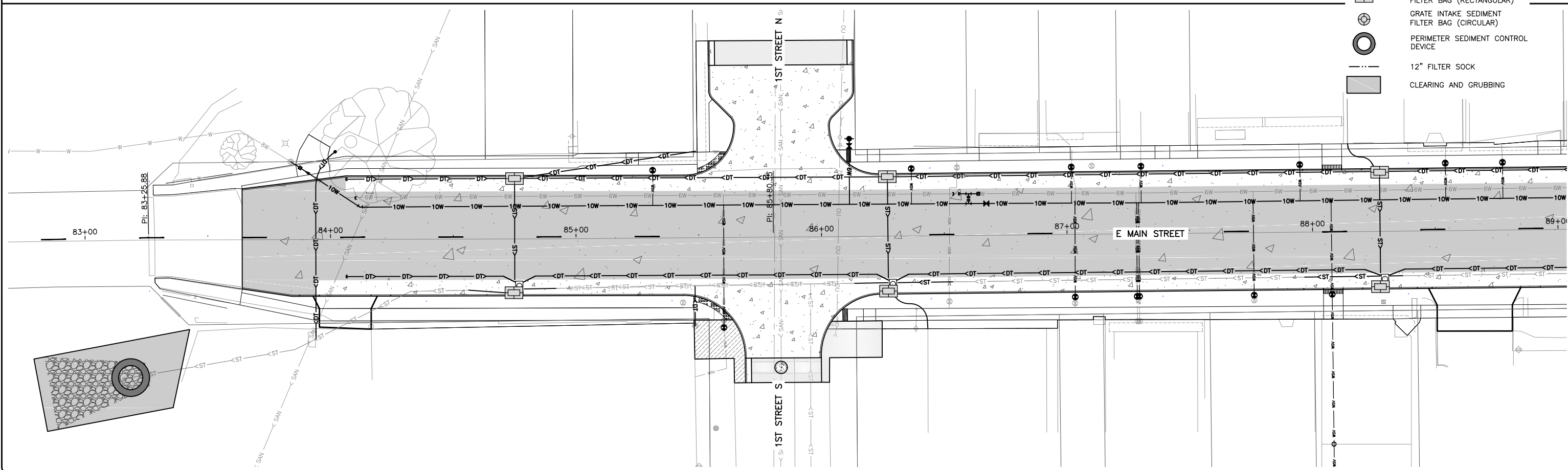
SHEET NUMBER:
RC.01

- NOTES:**
1. TOPSOIL AND SEEDING ON PLANS BY OTHER WITH SIDEWALK WORK.
 2. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR POLLUTION PREVENTION PLAN.



LEGEND

- OPEN THROAT CURB
- INTAKE SEDIMENT FILTER
- GRATE INTAKE SEDIMENT FILTER BAG (RECTANGULAR)
- GRATE INTAKE SEDIMENT FILTER BAG (CIRCULAR)
- PERIMETER SEDIMENT CONTROL DEVICE
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SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
EROSION CONTROL PLAN

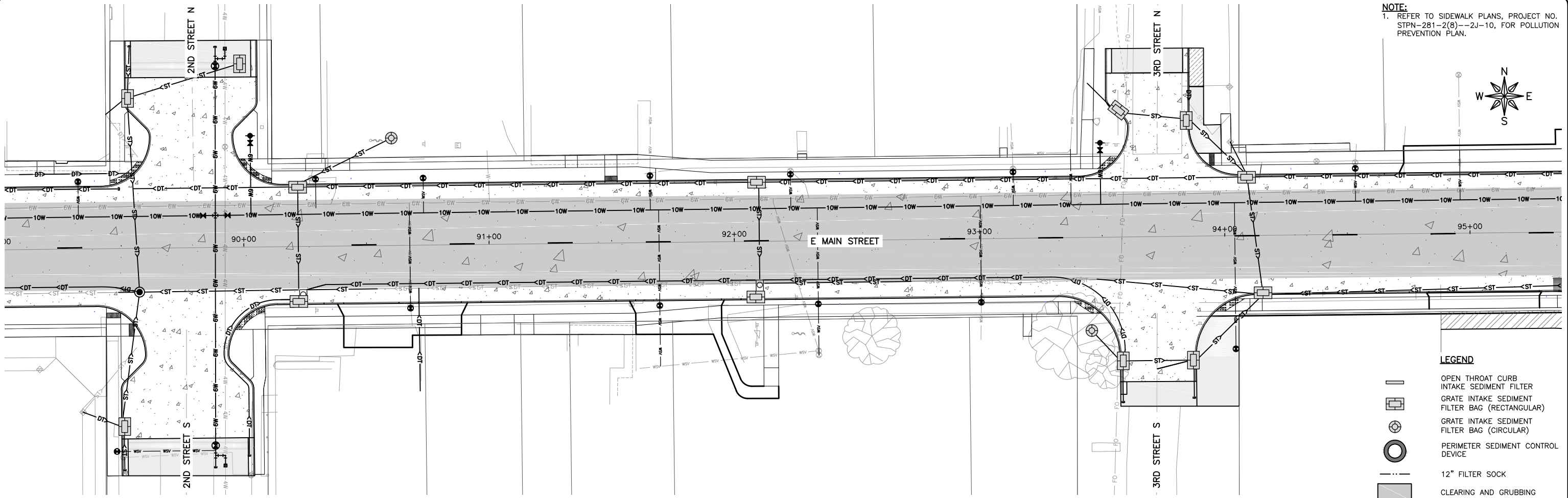
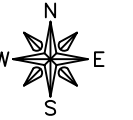
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G:\30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, RC.02

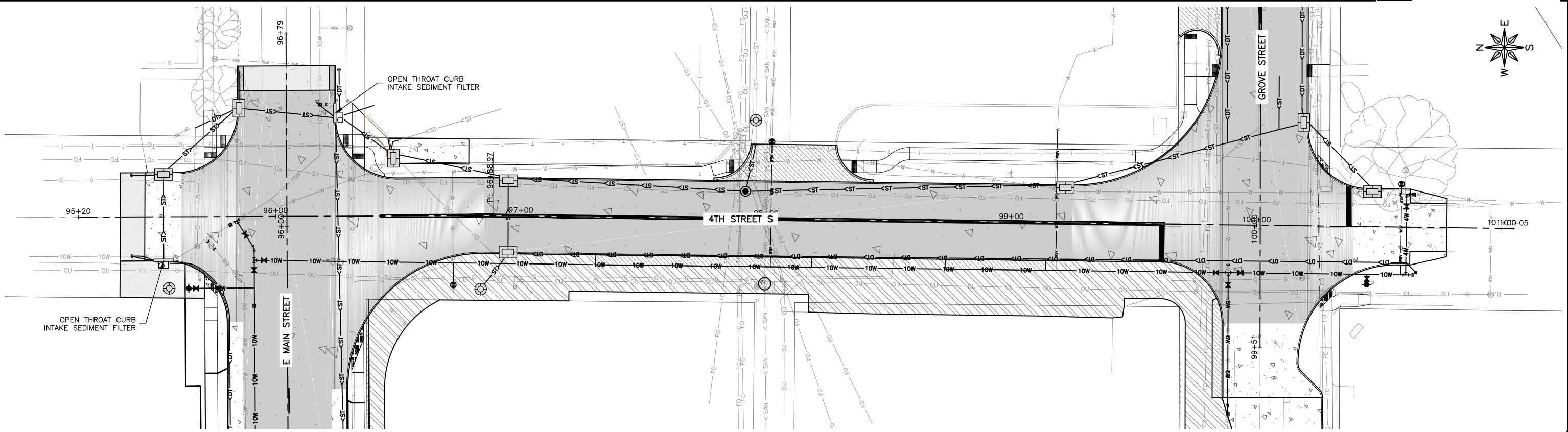
JOB NUMBER:
22-1100

SHEET NUMBER:
RC.02

NOTE:
 1. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR POLLUTION PREVENTION PLAN.



- LEGEND**
- OPEN THROAT CURB INTAKE SEDIMENT FILTER
 - GRATE INTAKE SEDIMENT FILTER BAG (RECTANGULAR)
 - GRATE INTAKE SEDIMENT FILTER BAG (CIRCULAR)
 - PERIMETER SEDIMENT CONTROL DEVICE
 - 12" FILTER SOCK
 - CLEARING AND GRUBBING



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 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

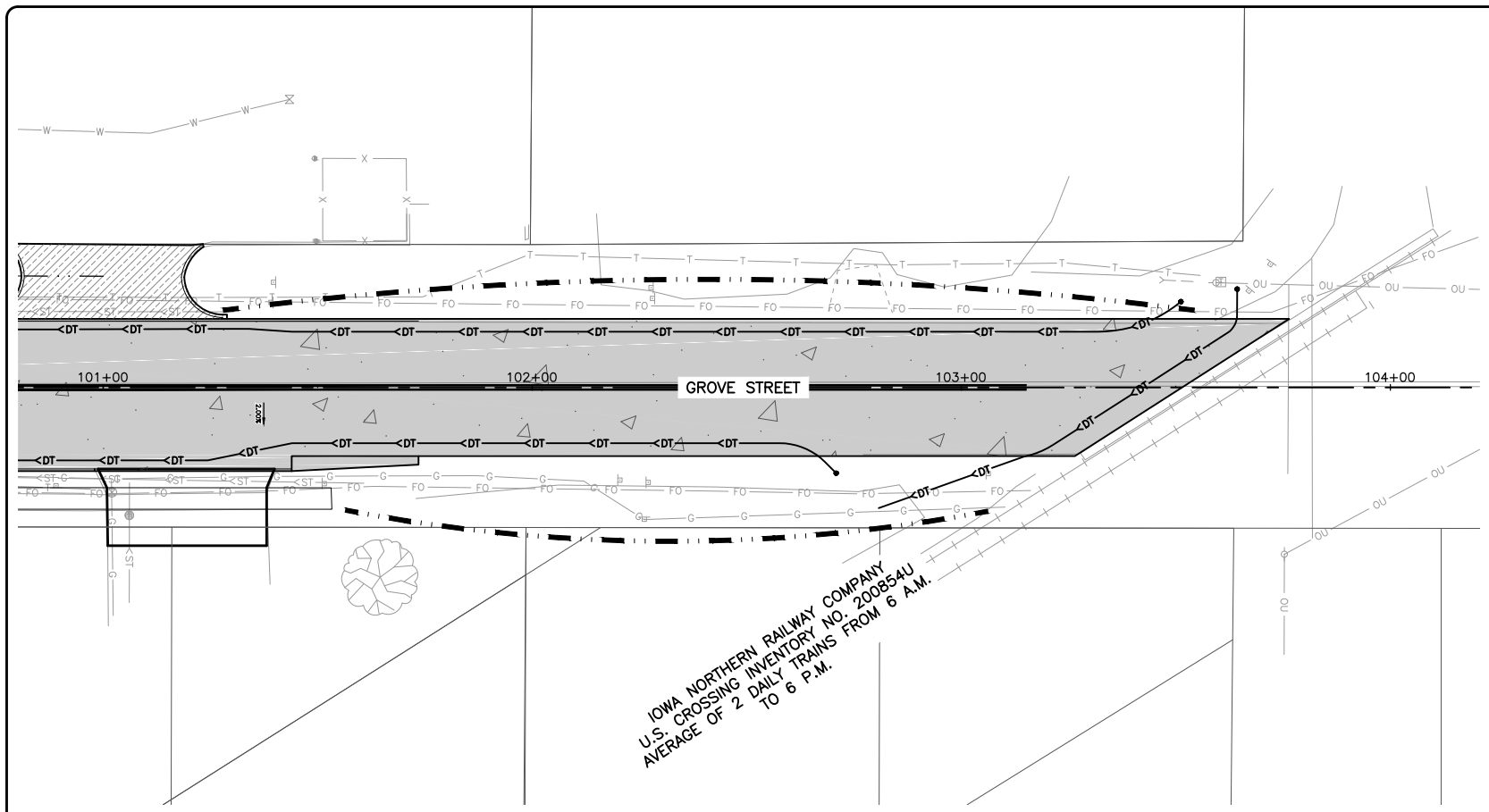
DRAWING:
 EROSION CONTROL PLAN

SET TYPE: BID LETTING
 G:\30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, RC.03

JOB NUMBER:
 22-1100

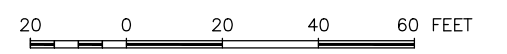
SHEET NUMBER:
 RC.03

NOTE:
 1. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR POLLUTION PREVENTION PLAN.



LEGEND

- OPEN THROAT CURB INTAKE SEDIMENT FILTER
- GRATE INTAKE SEDIMENT FILTER BAG (RECTANGULAR)
- GRATE INTAKE SEDIMENT FILTER BAG (CIRCULAR)
- PERIMETER SEDIMENT CONTROL DEVICE
- 12" FILTER SOCK
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 STPN-281-2(10)--2J-10

DRAWN BY: AFC
 APPROVED BY: JSB
 DATE: 10/27/22
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 EROSION CONTROL PLAN

SET TYPE: **BID LETTING**
G:\C30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, RC.04




JOB NUMBER:
 22-1100

SHEET NUMBER:
 RC.04



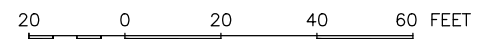
MATCH LINE - SEE SHEET R.02

LEGEND

-  PAVEMENT MILL AND OVERLAY, HMA, 2"
-  FULL DEPTH PAVEMENT REMOVAL
-  REMOVAL OF PCC PAVEMENT

NOTES:

1. SEE C SHEETS FOR FURTHER REMOVAL DETAIL.
2. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR SIDEWALK AND DRIVEWAY REMOVALS.



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DRAWN BY: AFC
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SCALE: AS NOTED

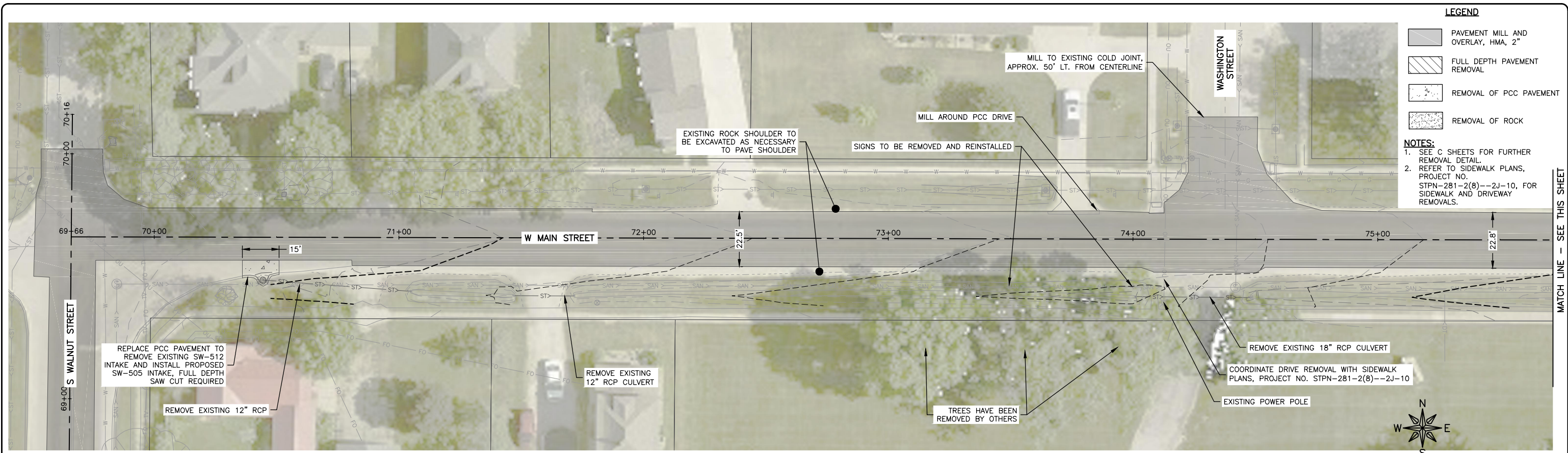
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
REMOVAL PLAN

SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, REMOVALS (1)

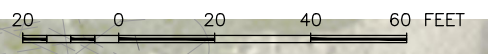
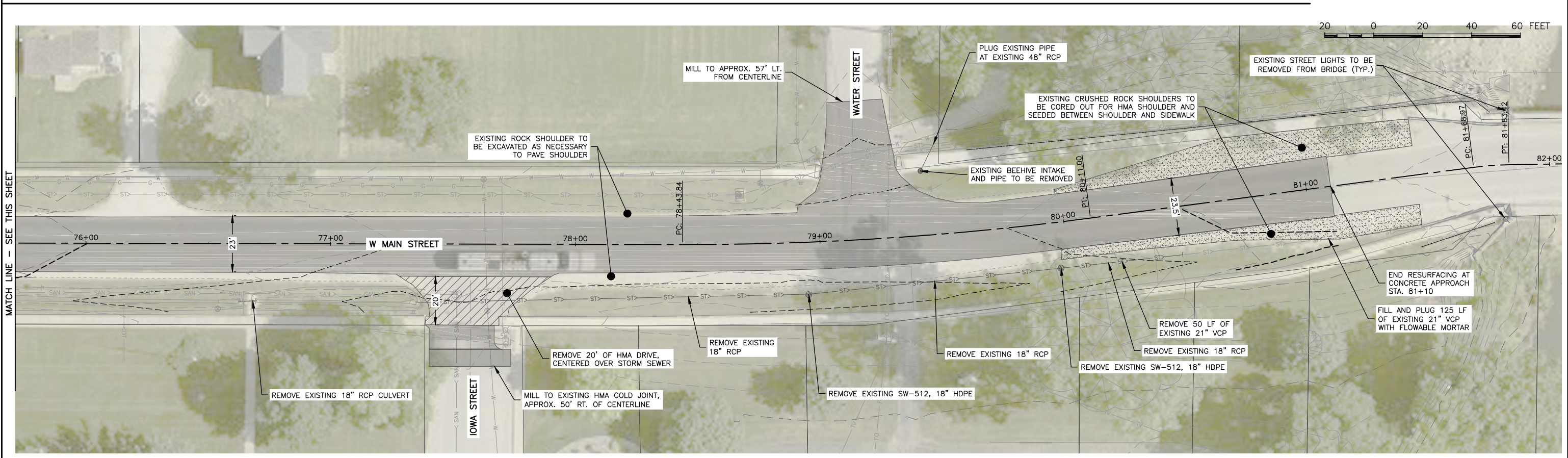
JOB NUMBER:
22-1100

SHEET NUMBER:
U.01



- LEGEND**
- PAVEMENT MILL AND OVERLAY, HMA, 2"
 - FULL DEPTH PAVEMENT REMOVAL
 - REMOVAL OF PCC PAVEMENT
 - REMOVAL OF ROCK

- NOTES:**
1. SEE C SHEETS FOR FURTHER REMOVAL DETAIL.
 2. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR SIDEWALK AND DRIVEWAY REMOVALS.



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DRAWN BY: AFC
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REVISIONS		
REV. NO.	DESCRIPTION	DATE

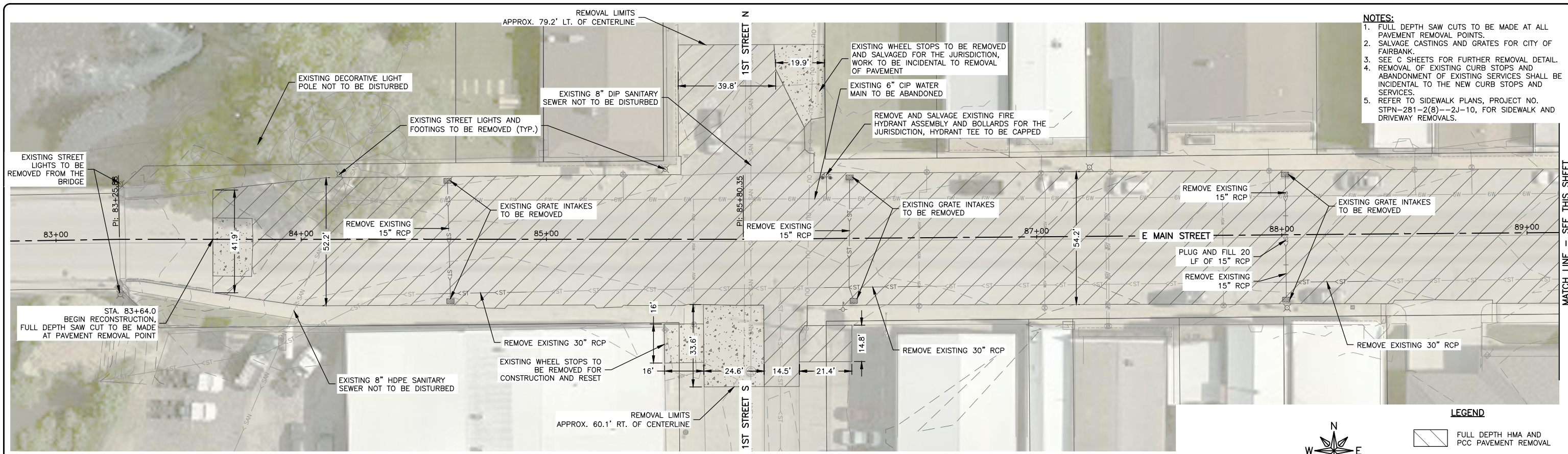
DRAWING:
REMOVAL PLAN

SET TYPE: BID LETTING

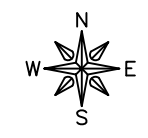
G:\30\22\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, REMOVALS (2)

JOB NUMBER:
22-1100

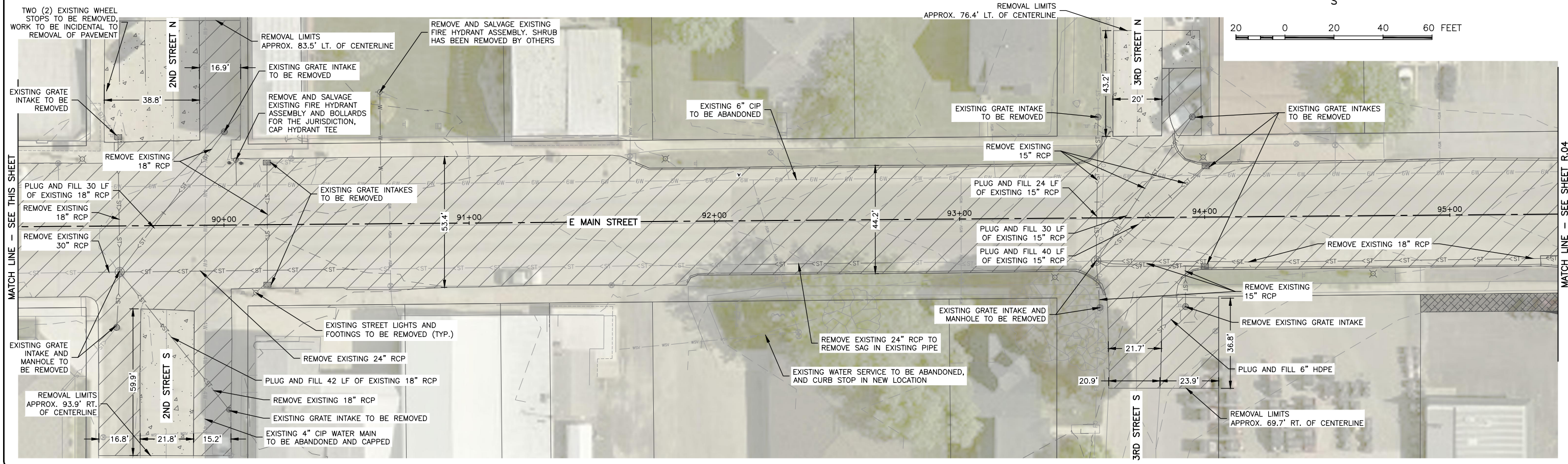
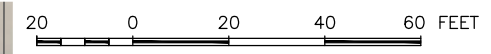
SHEET NUMBER:
U.02



- NOTES:**
1. FULL DEPTH SAW CUTS TO BE MADE AT ALL PAVEMENT REMOVAL POINTS.
 2. SALVAGE CASTINGS AND GRATES FOR CITY OF FAIRBANK.
 3. SEE C SHEETS FOR FURTHER REMOVAL DETAIL.
 4. REMOVAL OF EXISTING CURB STOPS AND ABANDONMENT OF EXISTING SERVICES SHALL BE INCIDENTAL TO THE NEW CURB STOPS AND SERVICES.
 5. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR SIDEWALK AND DRIVEWAY REMOVALS.



- LEGEND**
- FULL DEPTH HMA AND PCC PAVEMENT REMOVAL
 - REMOVAL OF PCC PAVEMENT



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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
REMOVAL PLAN

SET TYPE: BID LETTING

G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, REMOVALS (3)

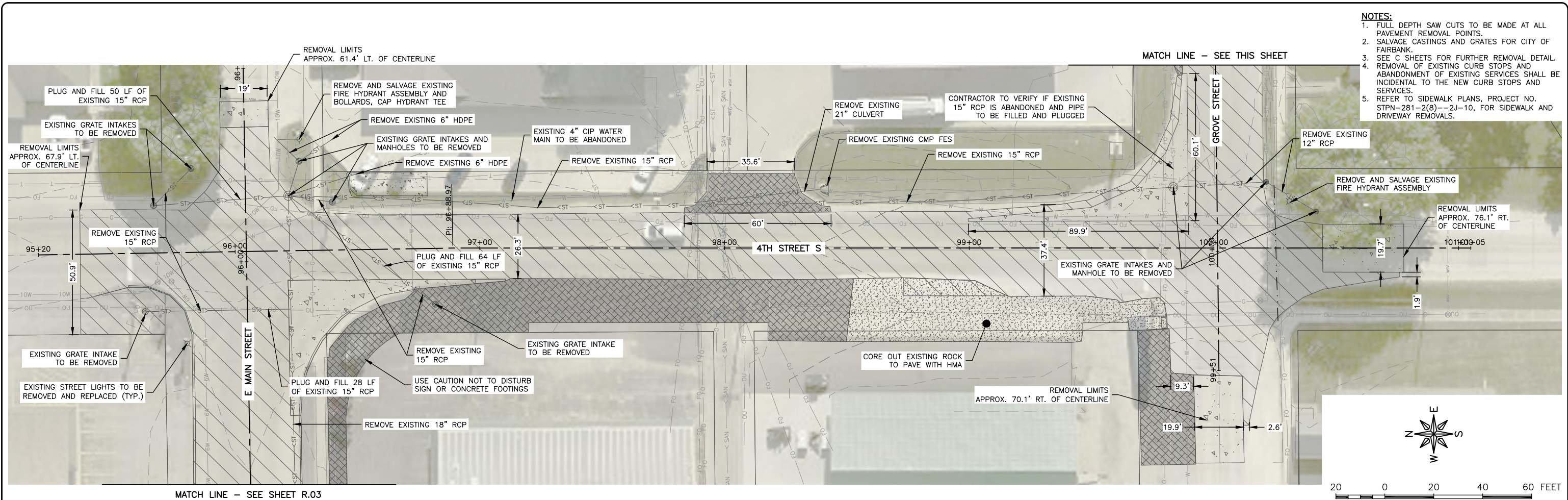
JOB NUMBER:
22-1100

SHEET NUMBER:
U.03

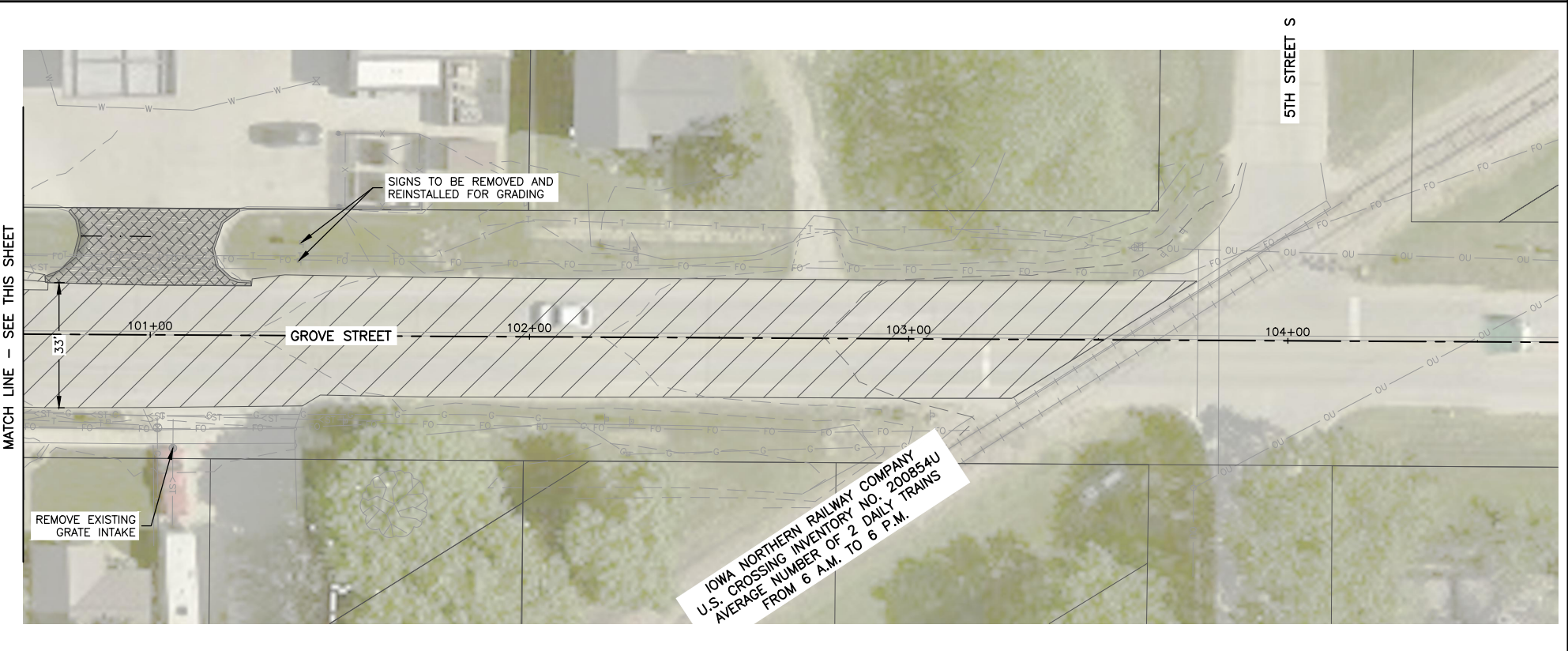
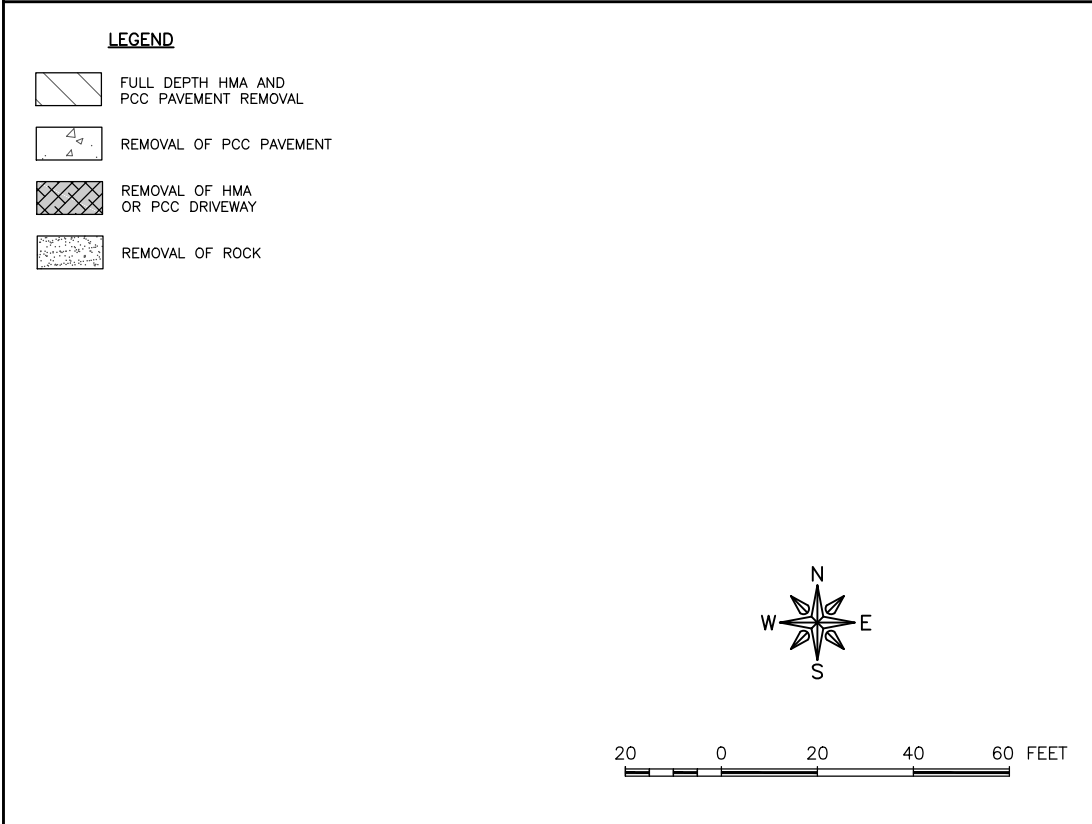
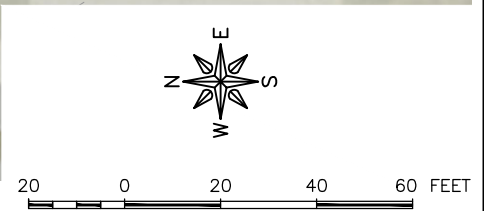
MATCH LINE - SEE THIS SHEET

MATCH LINE - SEE SHEET R.04

MATCH LINE - SEE THIS SHEET



- NOTES:**
1. FULL DEPTH SAW CUTS TO BE MADE AT ALL PAVEMENT REMOVAL POINTS.
 2. SALVAGE CASTINGS AND GRATES FOR CITY OF FAIRBANK.
 3. SEE 'C' SHEETS FOR FURTHER REMOVAL DETAIL.
 4. REMOVAL OF EXISTING CURB STOPS AND ABANDONMENT OF EXISTING SERVICES SHALL BE INCIDENTAL TO THE NEW CURB STOPS AND SERVICES.
 5. REFER TO SIDEWALK PLANS, PROJECT NO. STPN-281-2(8)--2J-10, FOR SIDEWALK AND DRIVEWAY REMOVALS.



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STPN-281-2(10)--2J-10

DRAWN BY: AFC
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DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

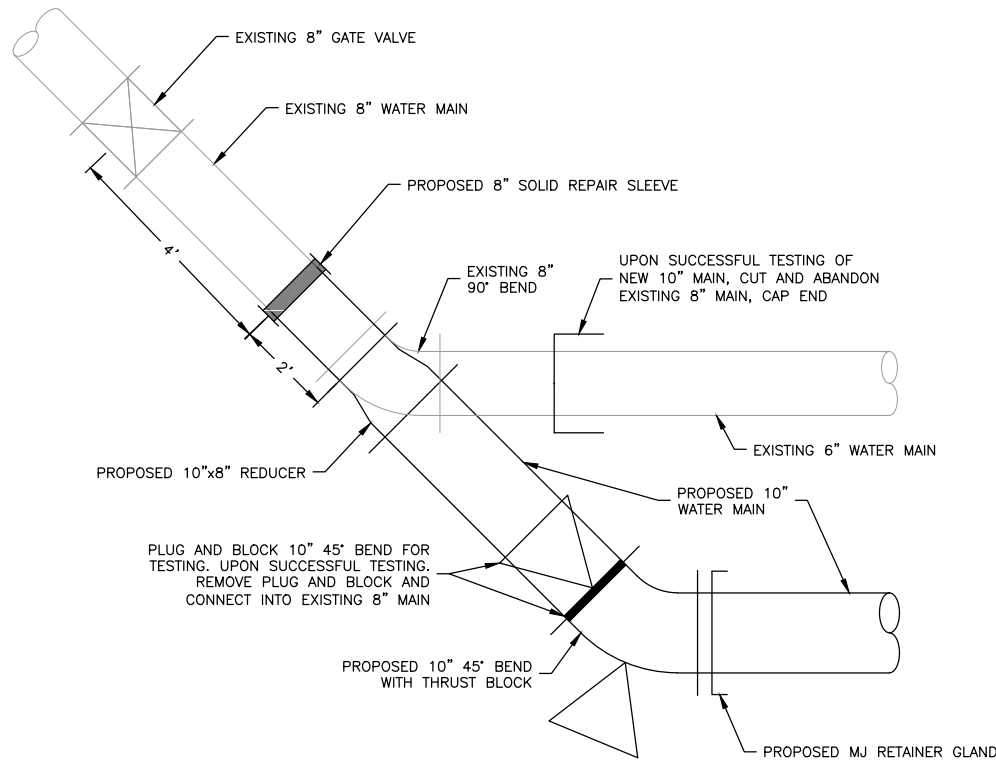
DRAWING:
REMOVAL PLAN

SET TYPE: **BID LETTING**

G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, REMOVALS (4)

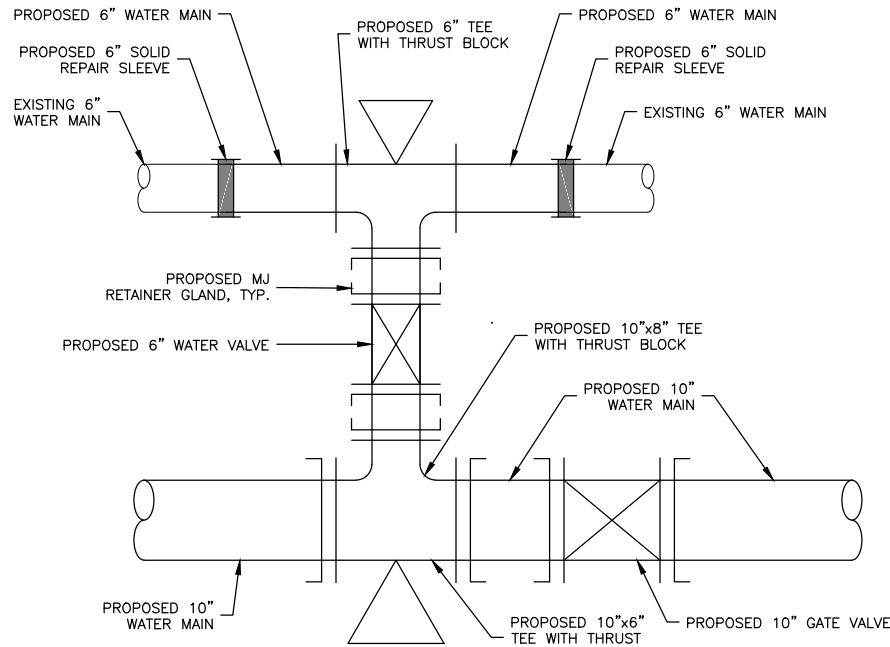
JOB NUMBER:
22-1100

SHEET NUMBER:
U.04



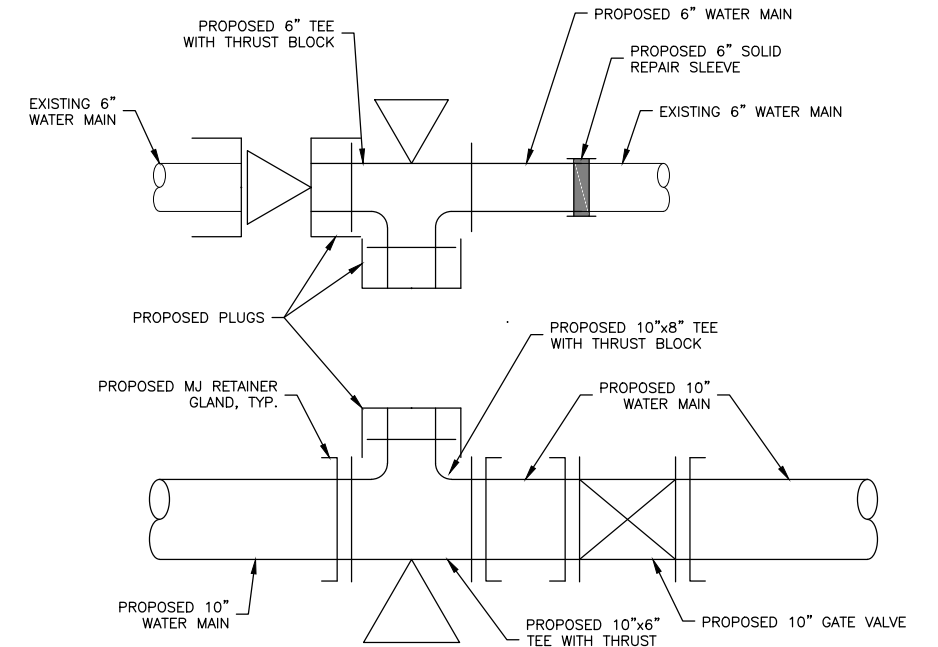
PROPOSED EAST MAIN STREET WATER CONNECTION

STA. 83+83.8, 30.3' LT
 U.05-01
 N.T.S.



PROPOSED EAST MAIN STREET WATER CONNECTION INITIAL CONSTRUCTION

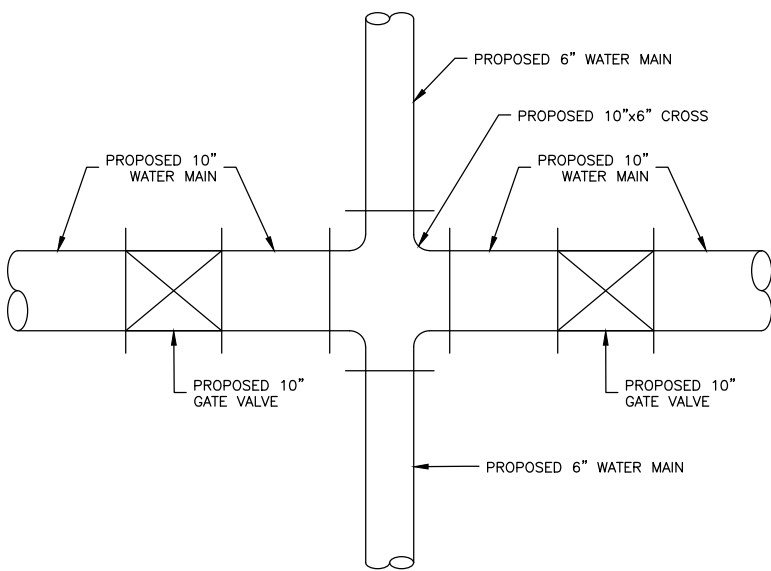
STA. 86+60.0, 12.0' LT
 U.05-02A
 N.T.S.



PROPOSED EAST MAIN STREET WATER CONNECTION FINAL CONSTRUCTION

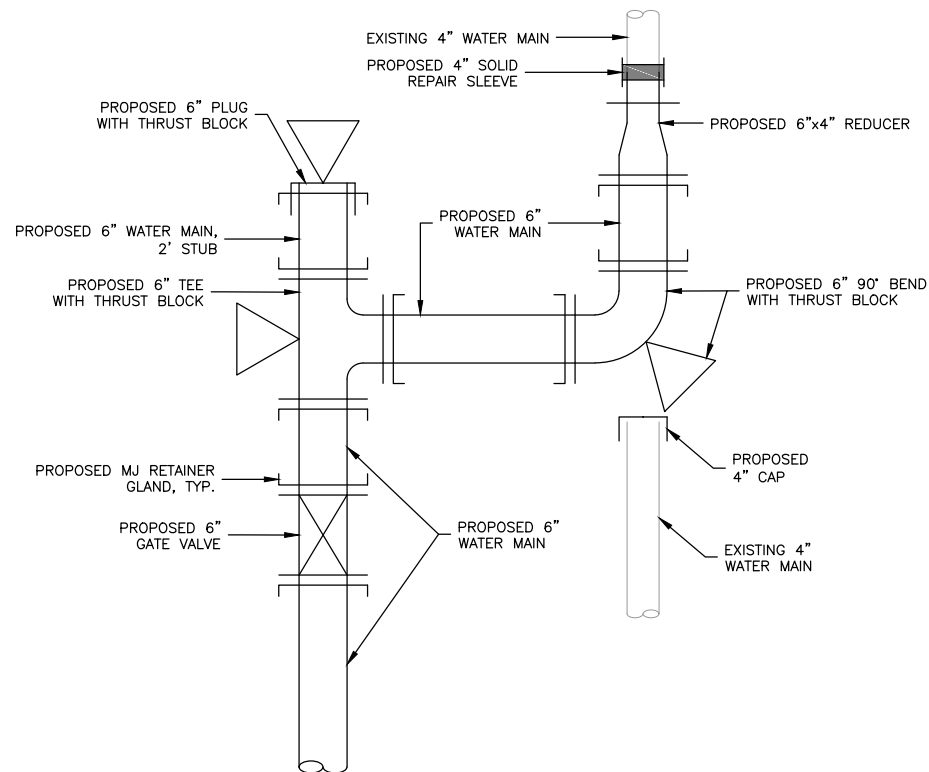
STA. 86+60.0, 12.0' LT
 U.05-02B
 N.T.S.

- NOTES:**
- UPON SUCCESSFUL TESTING OF PHASE 1 NEW WATER MAIN, DISCONNECT WEST SIDE OF 6" TEE, CAP AND BLOCK.
 - UPON SUCCESSFUL TESTING OF PHASE 2 WATER MAIN, REMOVE AND SALVAGE 6" GATE VALVE FOR CITY AND PLUG BOTH TEES.



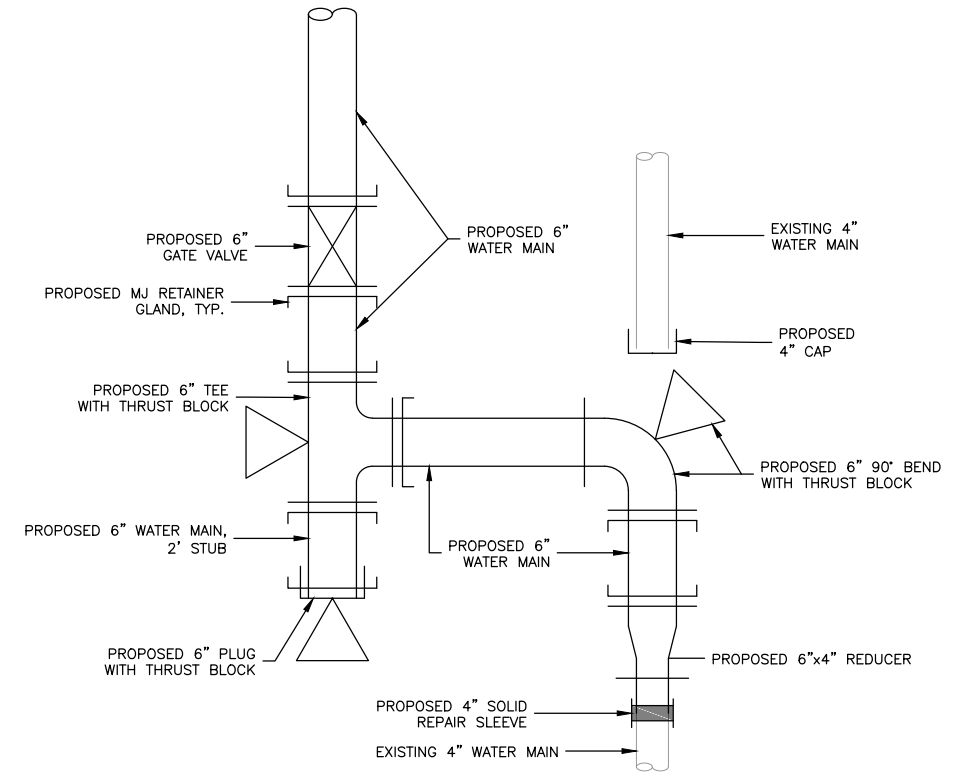
PROPOSED EAST MAIN/2ND STREET WATER MAIN CONNECTION

STA. 89+88.5, 14.7' LT
 U.05-03
 N.T.S.



PROPOSED NORTH 2ND STREET WATER MAIN CONNECTION

STA. 89+89.1, 75.4' LT
 U.05-04
 N.T.S.



PROPOSED SOUTH 2ND STREET WATER MAIN CONNECTION

STA. 89+87.9, 54.6' LT
 U.05-05
 N.T.S.

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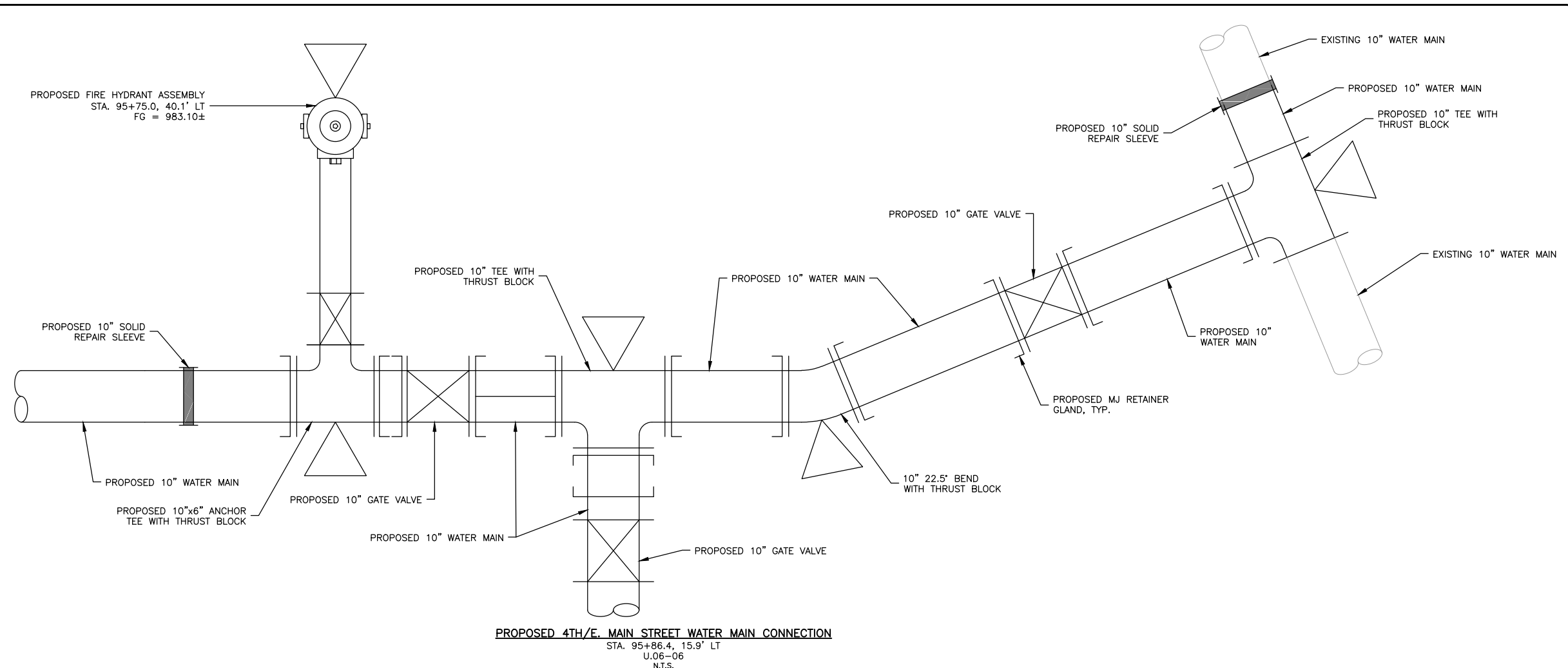
DRAWING:
 DETAILS

SET TYPE: BID LETTING

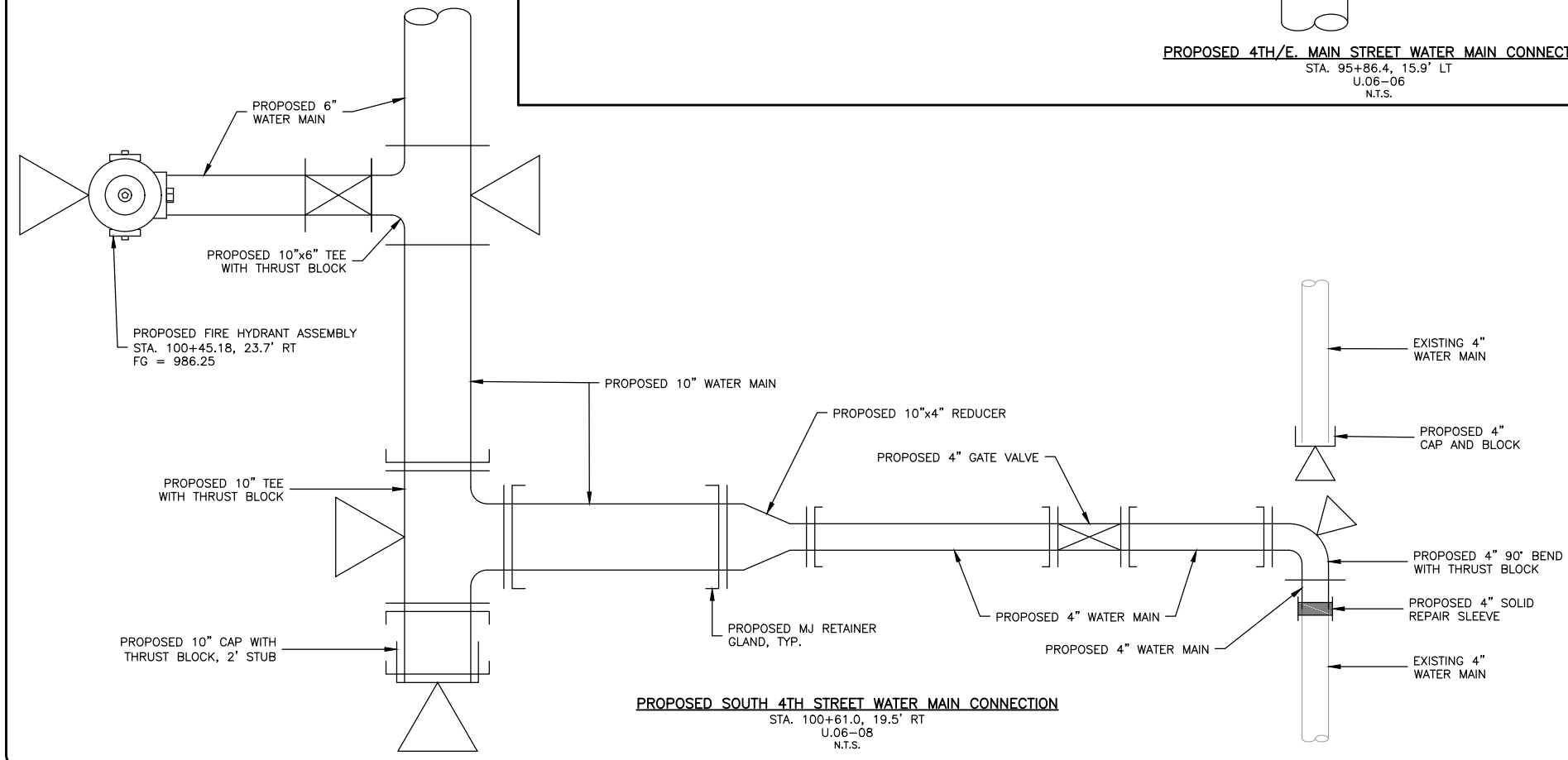
G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, U.05

JOB NUMBER:
 22-1100

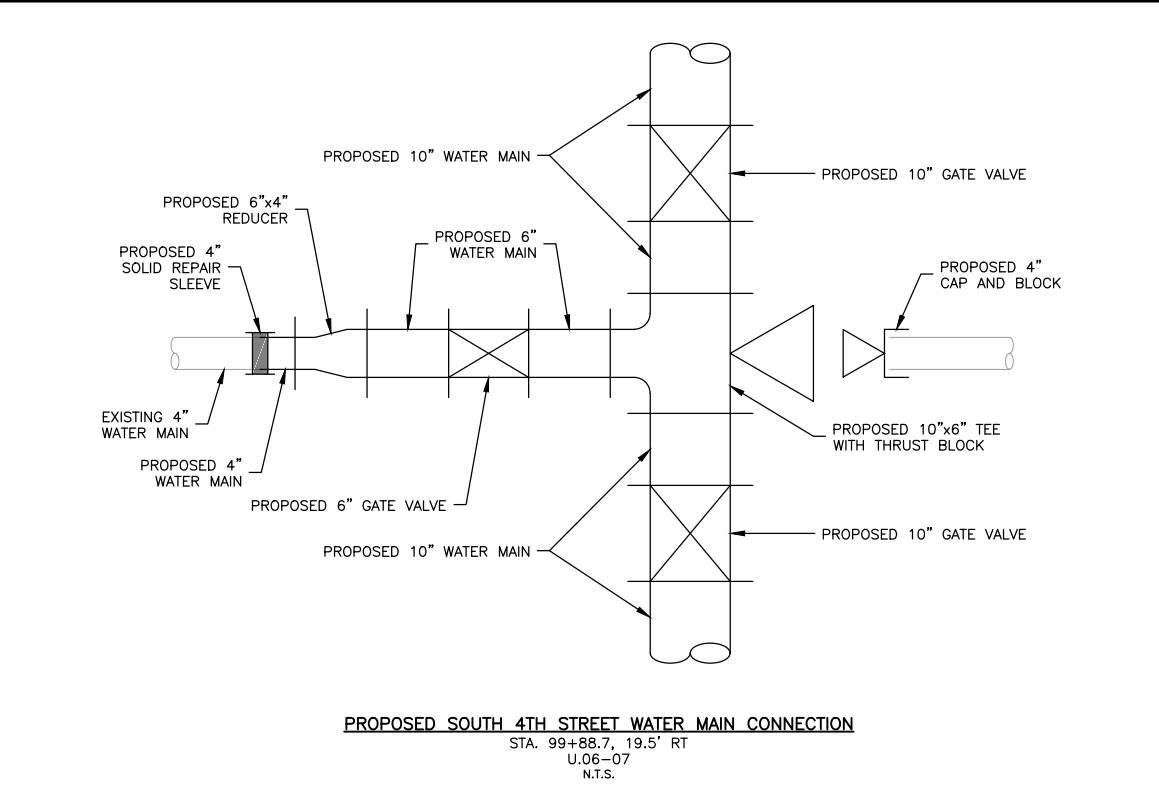
SHEET NUMBER:
 U.05



PROPOSED 4TH/E. MAIN STREET WATER MAIN CONNECTION
 STA. 95+86.4, 15.9' LT
 U.06-06
 N.T.S.



PROPOSED SOUTH 4TH STREET WATER MAIN CONNECTION
 STA. 100+61.0, 19.5' RT
 U.06-08
 N.T.S.



PROPOSED SOUTH 4TH STREET WATER MAIN CONNECTION
 STA. 99+88.7, 19.5' RT
 U.06-07
 N.T.S.

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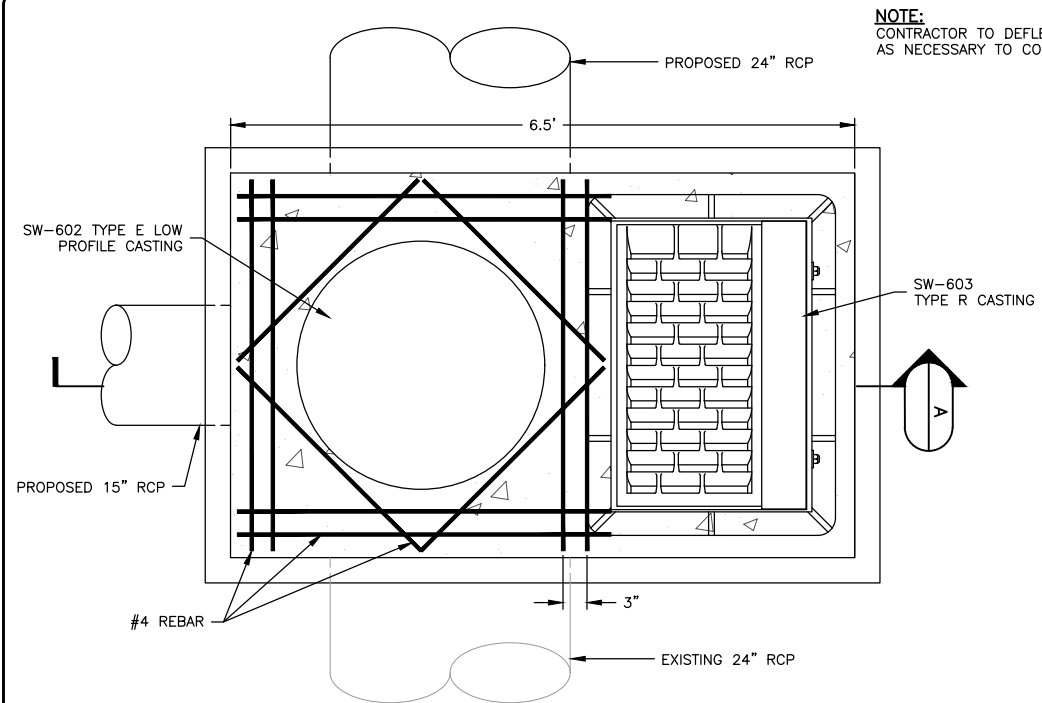
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 DETAILS

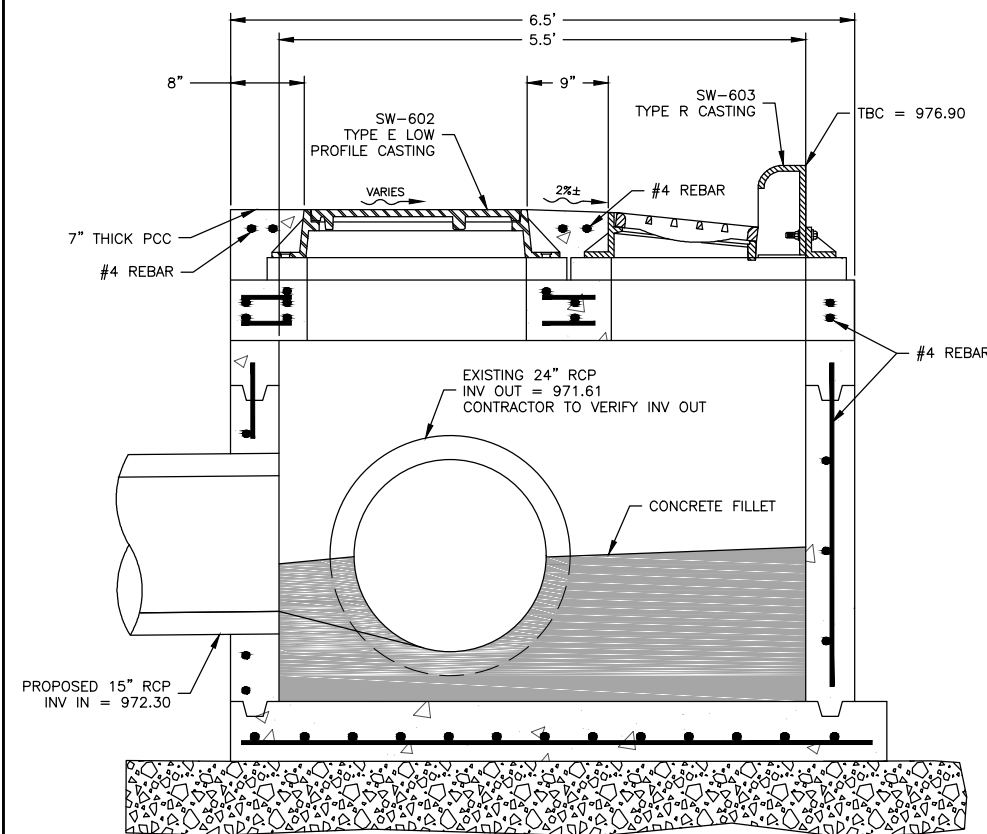
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G:\C30\22-1100 Fairbank Hwy 281\Plans\22-1100 PLANS.dwg, U.06

JOB NUMBER:
 22-1100

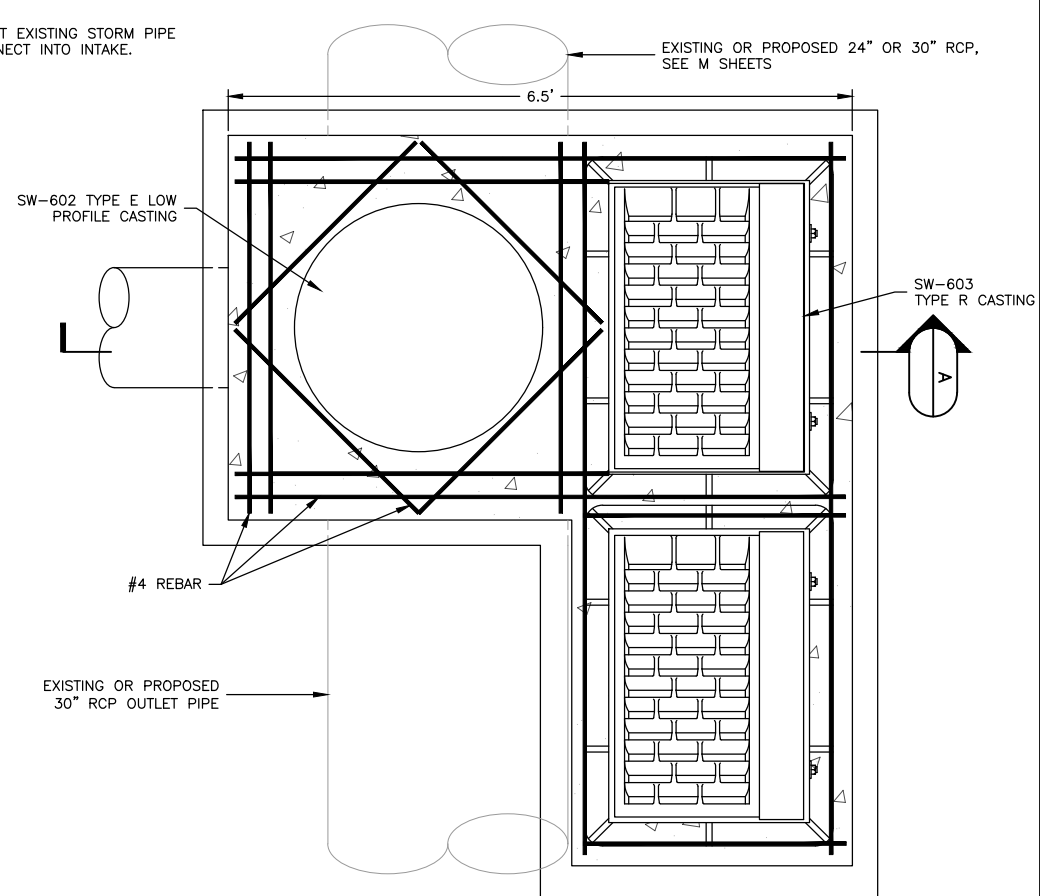
SHEET NUMBER:
 U.06



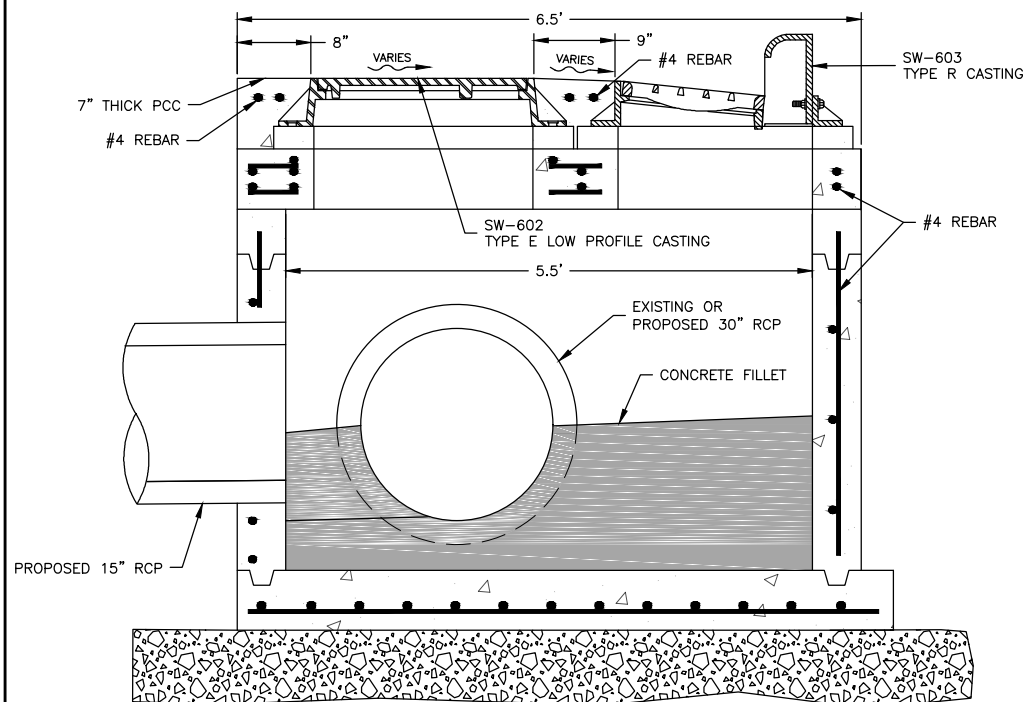
MODIFIED SW-503 FOR EXISTING STORM SEWER CONNECTIONS DETAIL
PLAN VIEW
N.T.S.



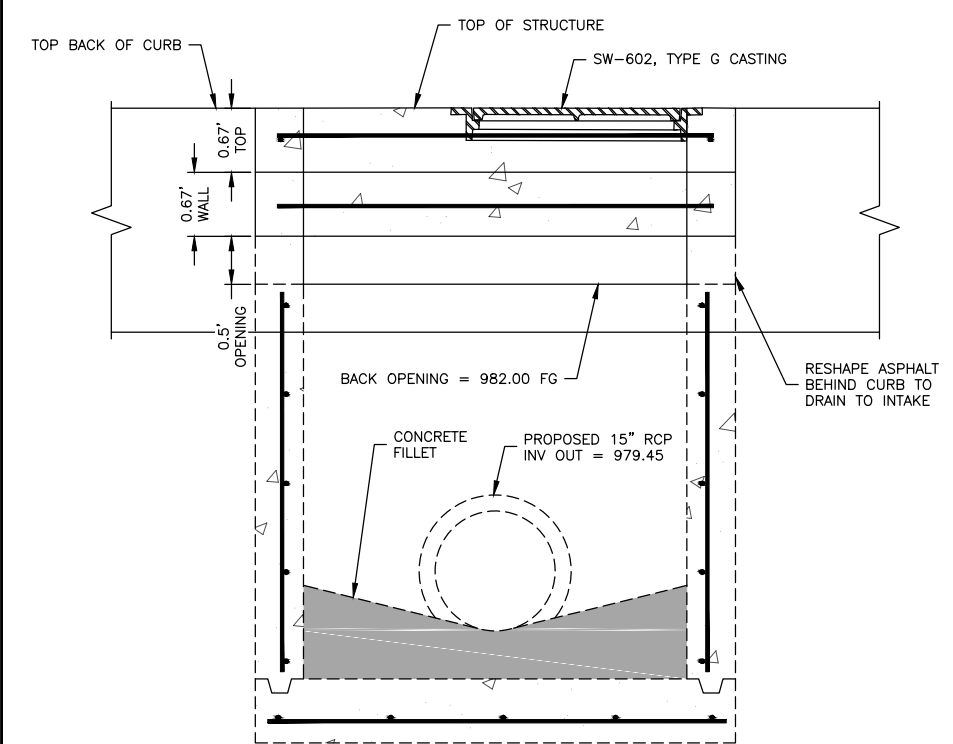
MODIFIED SW-503 FOR EXISTING STORM SEWER CONNECTIONS CROSS SECTION
PROFILE VIEW
N.T.S.



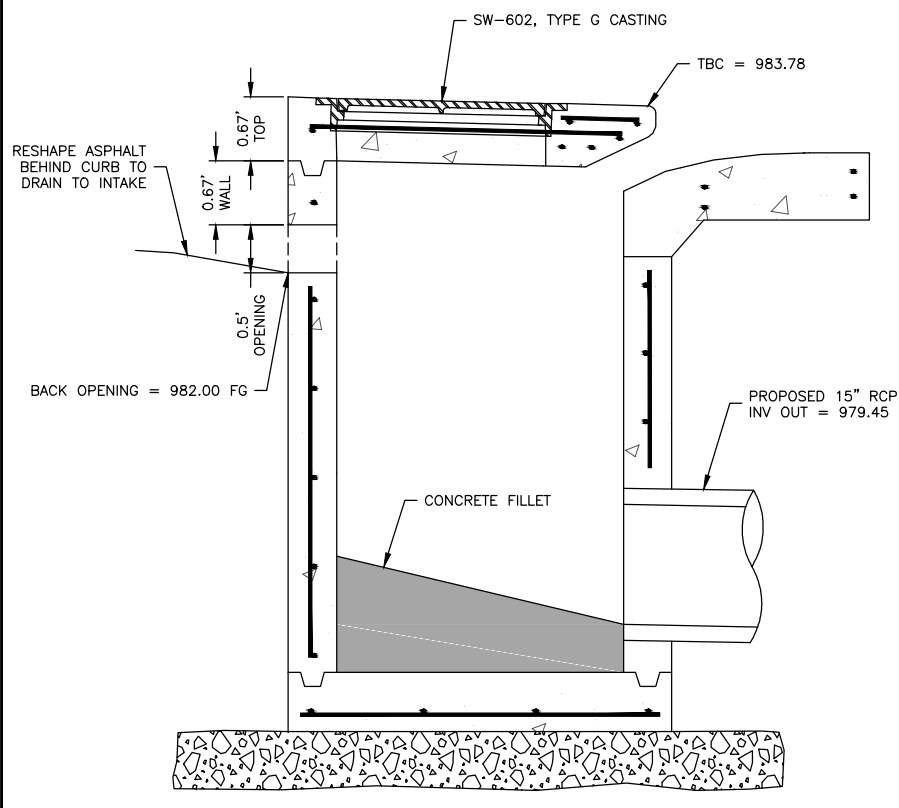
MODIFIED SW-506 FOR EXISTING STORM SEWER CONNECTIONS DETAIL
PLAN VIEW
N.T.S.



MODIFIED SW-506 FOR EXISTING STORM SEWER CONNECTIONS CROSS SECTION
PROFILE VIEW
N.T.S.

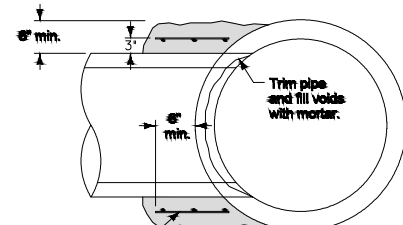


MODIFIED SW-507 FOR EXISTING STORM SEWER CONNECTIONS DETAIL
PLAN VIEW
N.T.S.

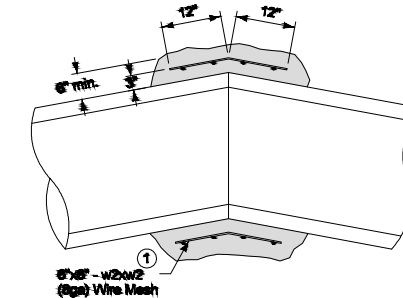


MODIFIED SW-507 FOR EXISTING STORM SEWER CONNECTIONS CROSS SECTION
PROFILE VIEW
N.T.S.

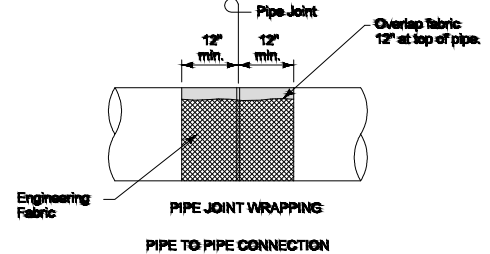
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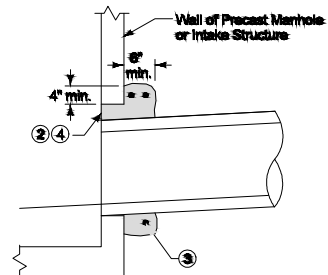
① 6"x6" - w2w2 (8ga.) Wire Mesh
TYPE PC-1 CONCRETE COLLAR CONNECTION



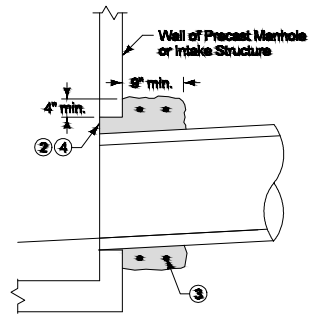
① 6"x6" - w2w2 (8ga.) Wire Mesh
TYPE PC-2 CONCRETE COLLAR CONNECTION



PIPE JOINT WRAPPING
PIPE TO PIPE CONNECTION



CONCRETE COLLAR FOR PIPES 12" AND SMALLER

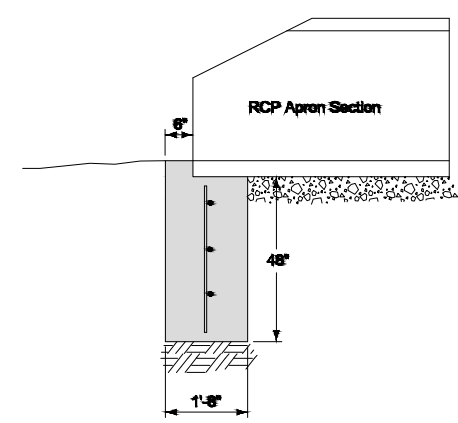


CONCRETE COLLAR FOR PIPES GREATER THAN 12"

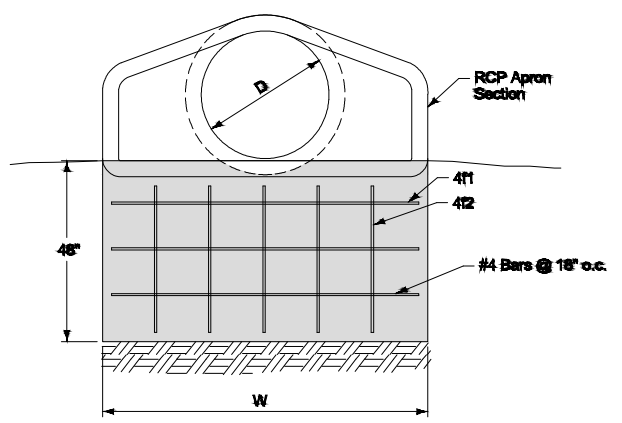
PIPE TO STRUCTURE CONNECTION

- Lap ends of wire mesh a minimum of 6 inches.
- Concrete collar is required when annular space between the outside of the pipe and the wall of the structure is 2 inches or greater.
- Provide two #4 hoop bars in concrete collar. Lap bars a minimum of 6 inches.
- Trowel concrete flush with inside wall of structure.

SUDAS	REVISION	1	04-17-10
FIGURE 4020.211	STANDARD SPECIFICATION	2	SW-211
SHEET 1 of 1			
SUDAS Standard Specifications			
STORM SEWER PIPE CONNECTIONS			



TYPICAL SECTION

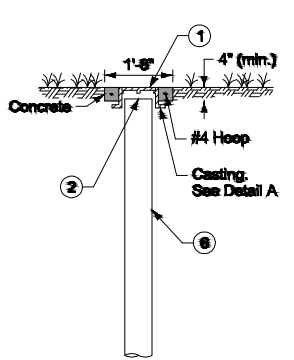


ELEVATION

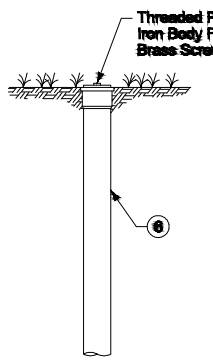
REINFORCING BAR LIST

D	W	Mark	Size	Length	Count	D	W	Mark	Size	Length	Count
12"	2'-4"	411	4	2'-0"	3	48"	7'-10"	411	4	7'-6"	3
		412	4	3'-8"	2			412	4	3'-8"	6
15"	2'-10 1/2"	411	4	2'-6 1/2"	3	54"	8'-5"	411	4	8'-1"	3
		412	4	3'-8"	2			412	4	3'-8"	6
18"	3'-6"	411	4	3'-1"	3	60"	8'-11"	411	4	8'-7"	3
		412	4	3'-8"	3			412	4	3'-8"	6
24"	4'-6"	411	4	4'-2"	3	66"	8'-11"	411	4	8'-7"	3
		412	4	3'-8"	3			412	4	3'-8"	6
30"	5'-7"	411	4	5'-3"	3	72"	10'-0"	411	4	9'-8"	3
		412	4	3'-8"	4			412	4	3'-8"	7
36"	6'-8"	411	4	6'-4"	3	78"	10'-7"	411	4	10'-3"	3
		412	4	3'-8"	5			412	4	3'-8"	7
42"	7'-3"	411	4	6'-11"	3	84"	11'-1"	411	4	10'-9"	3
		412	4	3'-8"	5			412	4	3'-8"	8

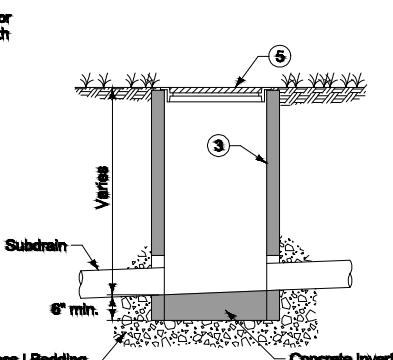
SUDAS	REVISION	1	10-21-14
FIGURE 4030.221	STANDARD SPECIFICATION	1	4030.221
SHEET 1 of 1			
SUDAS Standard Specifications			
RCP APRON SECTION FOOTING			



TYPE A-1 CLEANOUT

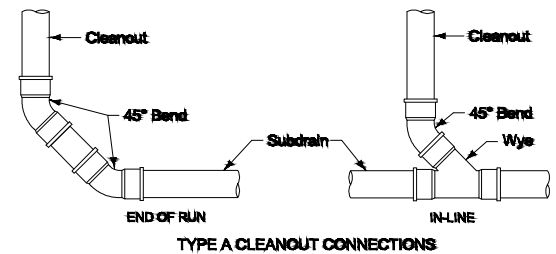


TYPE A-2 CLEANOUT

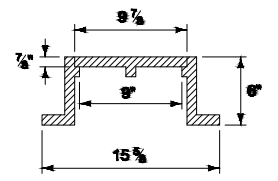


TYPE B CLEANOUT

- Use in non-traffic areas.
- Light duty casting. Label lid with "Storm" or "Storm C.O."
 - Do not allow casting to bear on top of riser pipe; provide 2 inch clearance, minimum.
 - A manufactured cleanout may be used in lieu of a Type B cleanout, if approved by the Engineer.
 - Design is intended for use in conjunction with 8 inch PVC riser pipe. Other sized caps may be used with smaller pipe, as approved by the Engineer.
 - Provide Type G casting, as required to fit pipe size.
 - PVC riser pipe; match diameter of subdrain (8 inches maximum).

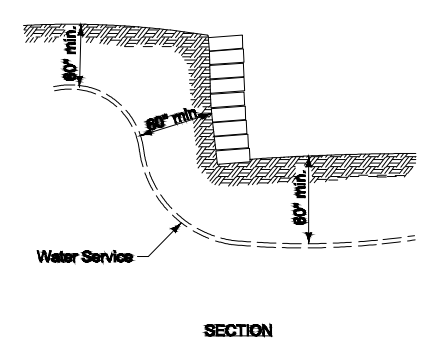


TYPE A CLEANOUT CONNECTIONS

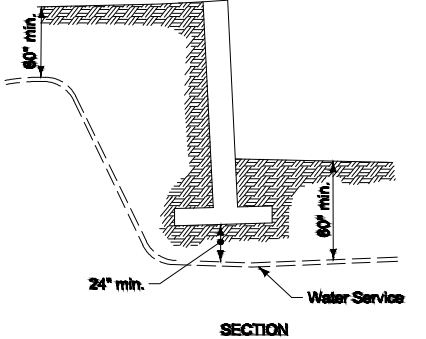


DETAIL A (1, 4)
(Dimensions are nominal)

SUDAS	REVISION	3	03-03-10
FIGURE 4040.232	STANDARD SPECIFICATION	1	4040.232
SHEET 1 of 1			
SUDAS Standard Specifications			
SUBDRAIN CLEANOUTS			

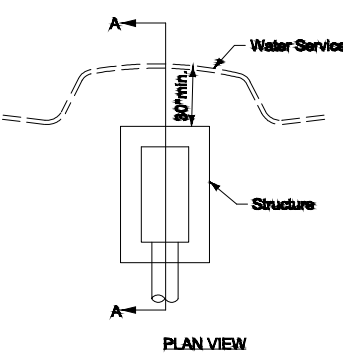


SECTION

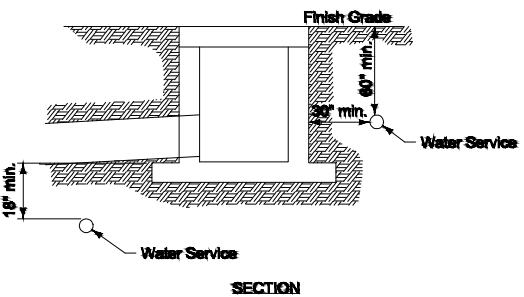


SECTION

This figure details minimum required clearances between structure and water service lines. Adjust location of water services as directed by the Engineer to maintain the clearances shown.



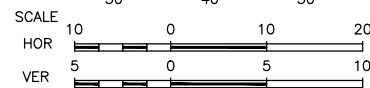
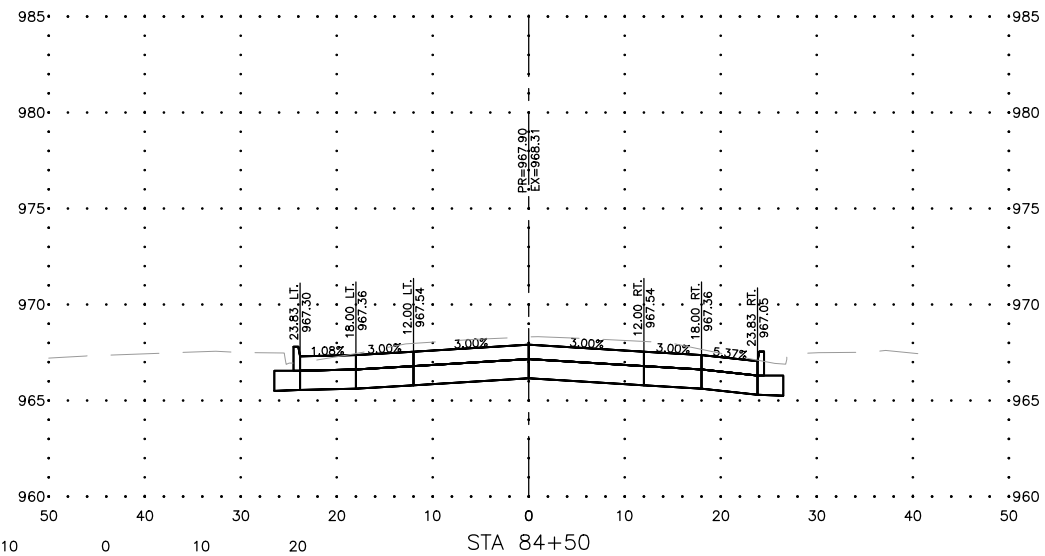
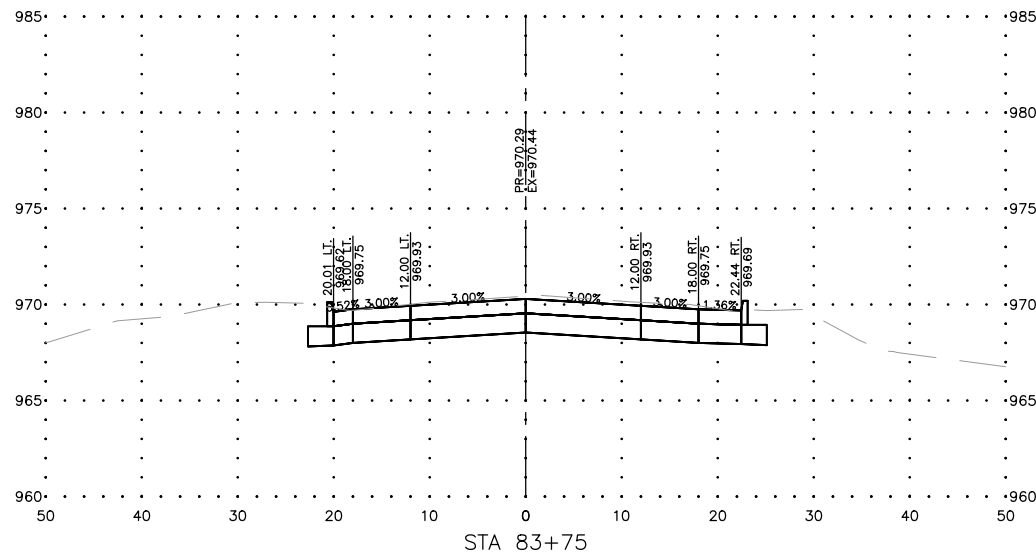
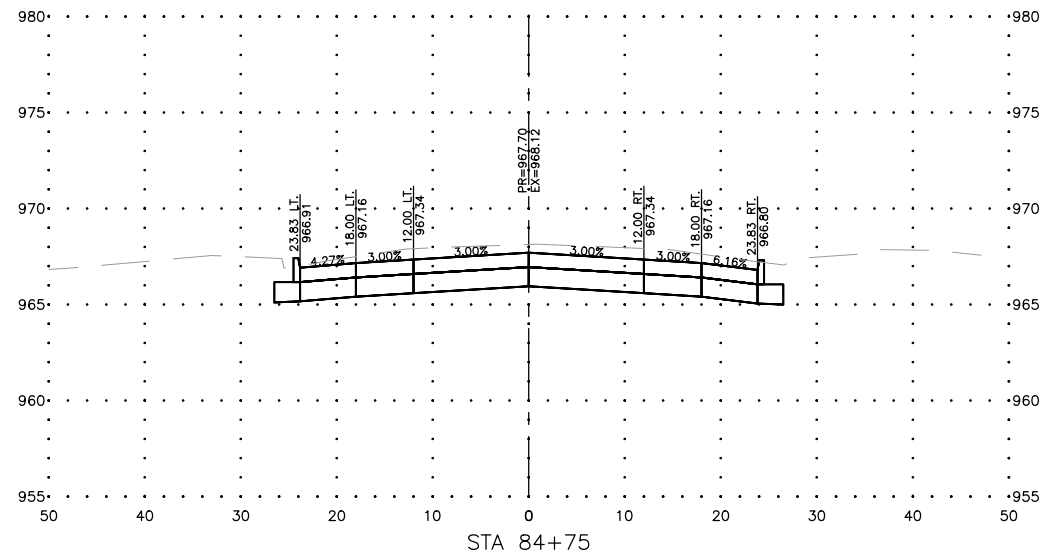
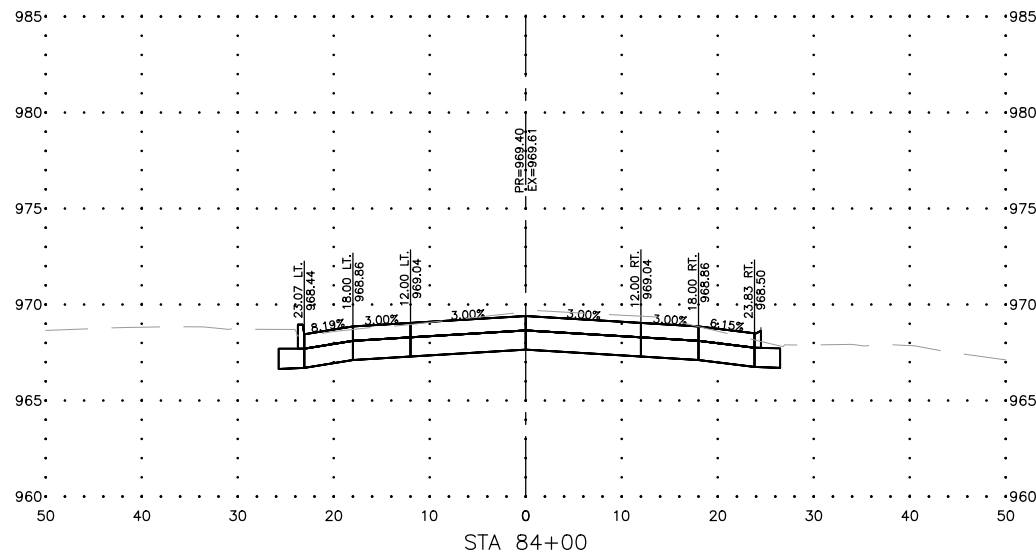
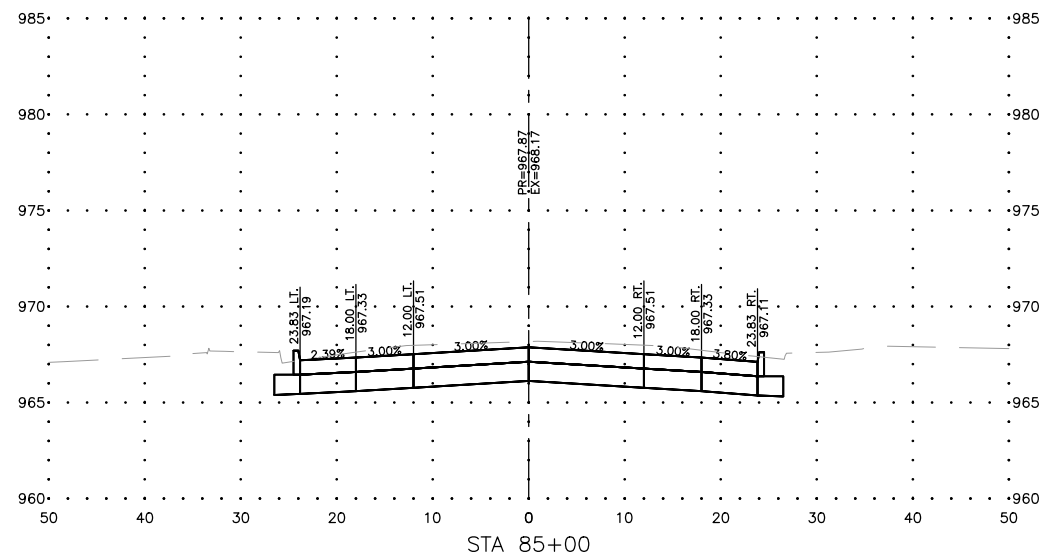
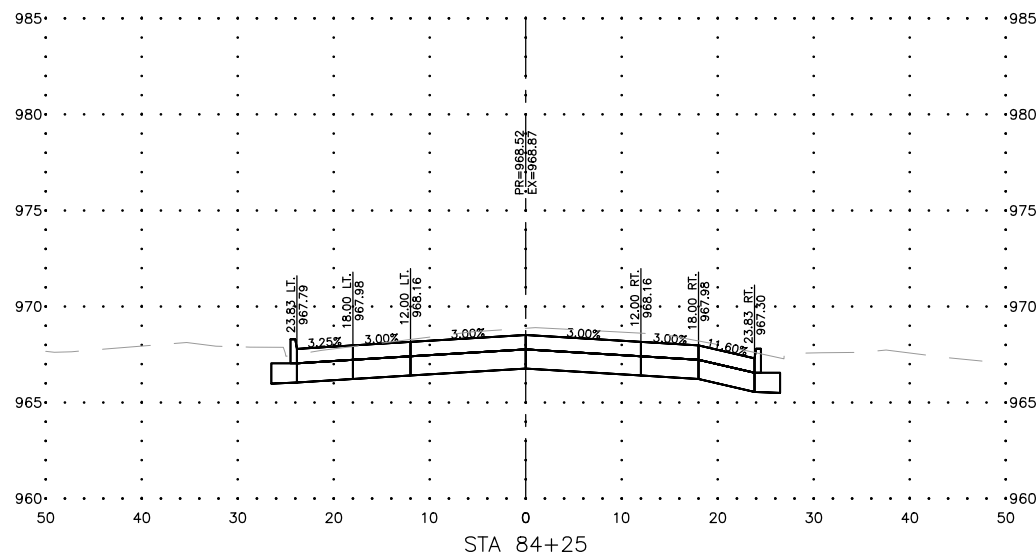
PLAN VIEW



SECTION

SUDAS	REVISION	1	10-21-14
FIGURE 5010.901	STANDARD SPECIFICATION	1	5010.901
SHEET 1 of 1			
SUDAS Standard Specifications			
MINIMUM CLEARANCE BETWEEN WATER SERVICE AND STRUCTURE			

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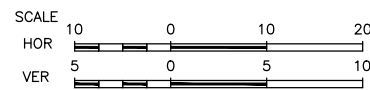
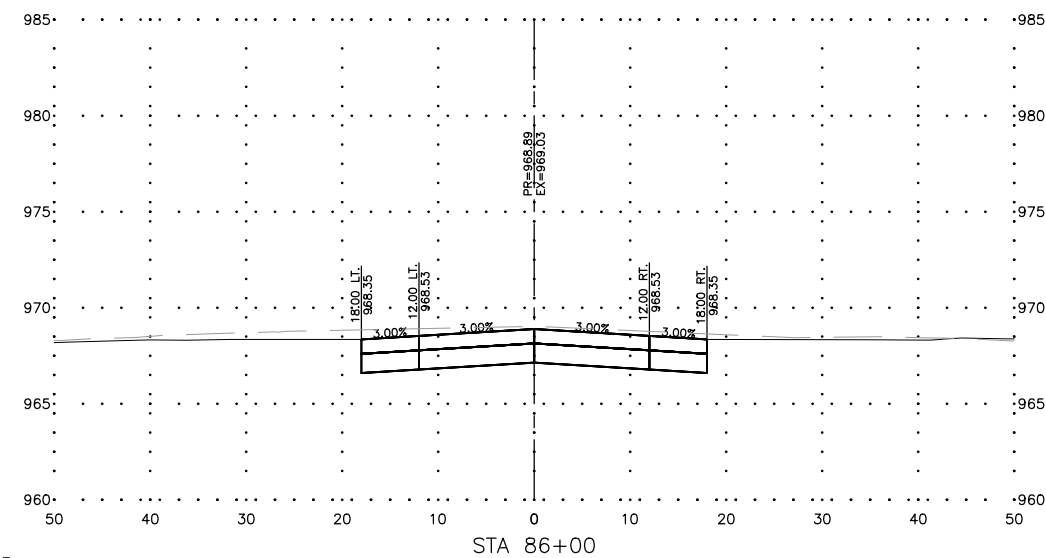
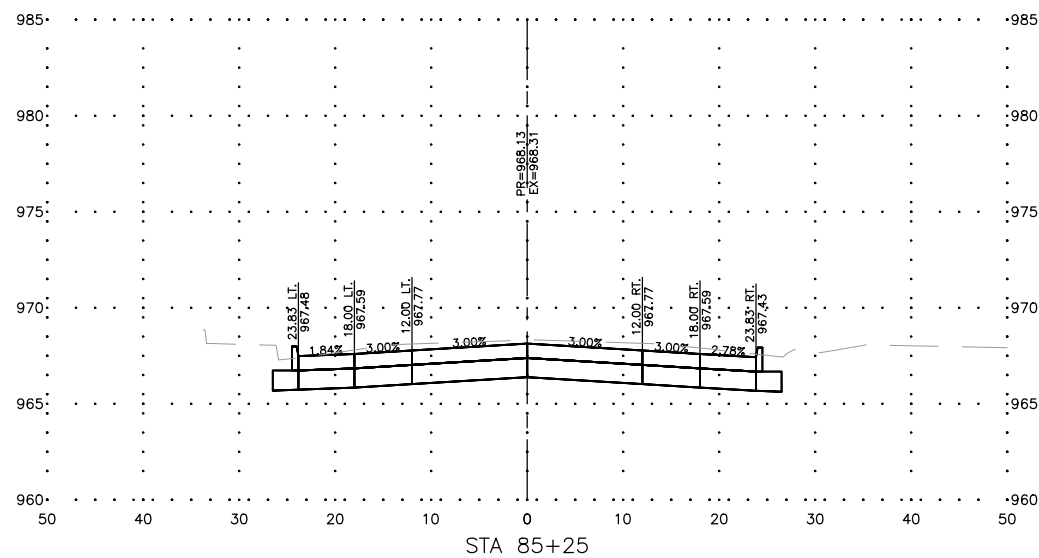
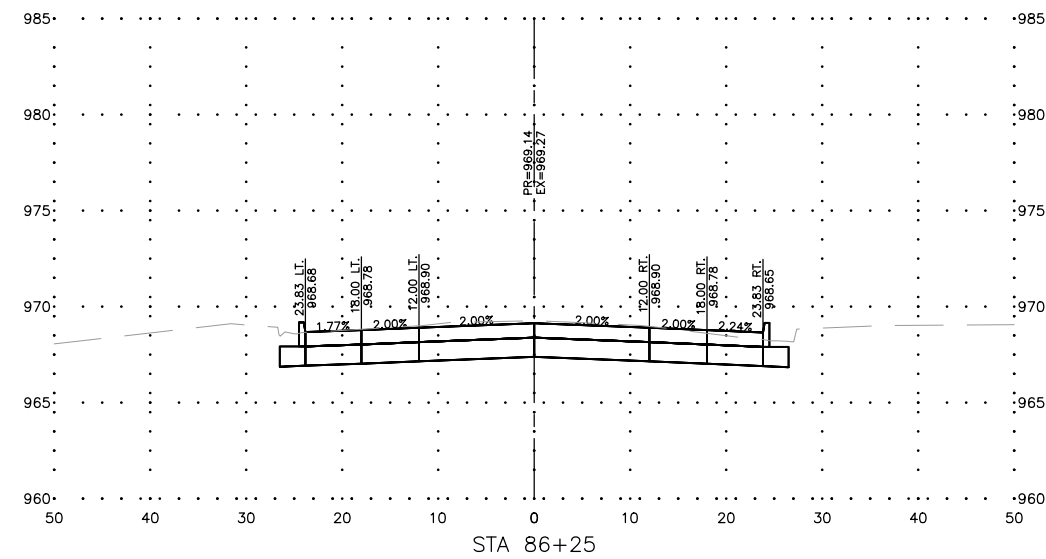
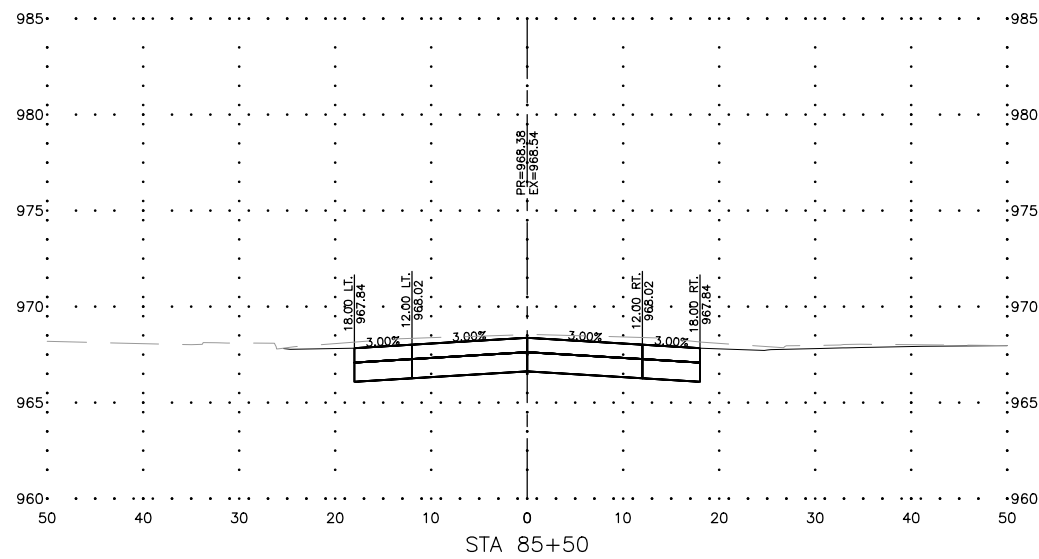
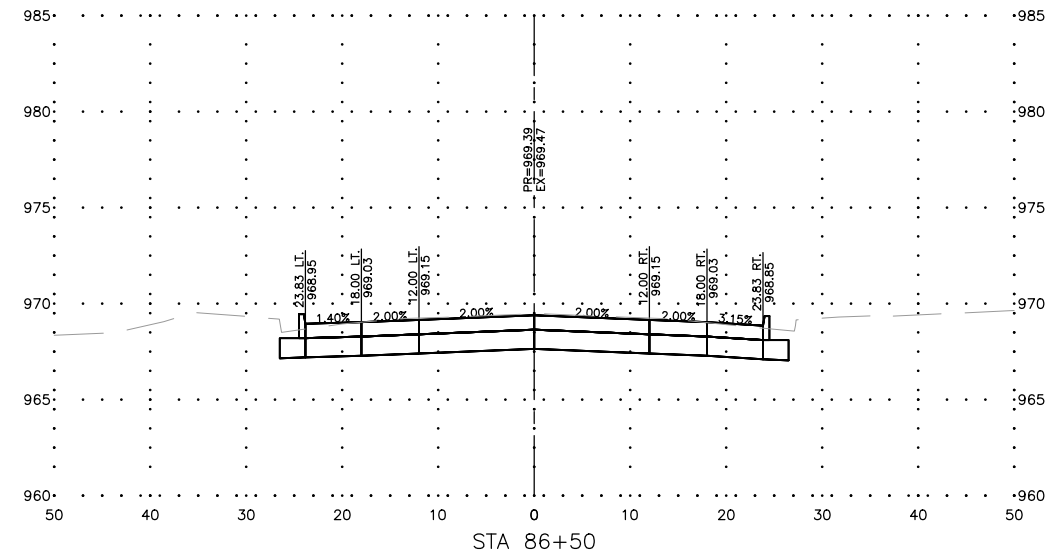
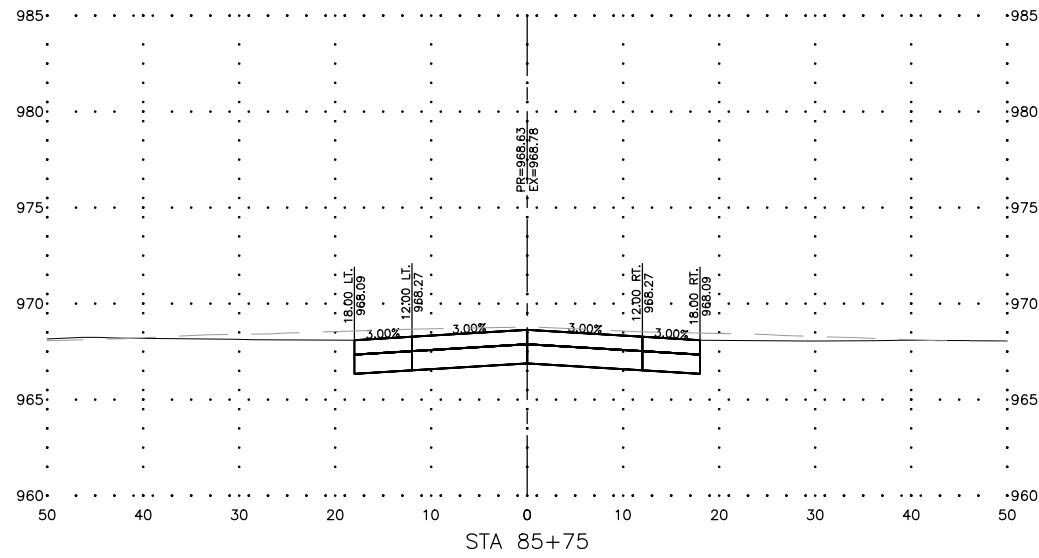
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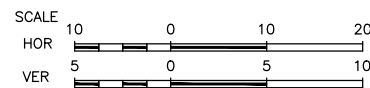
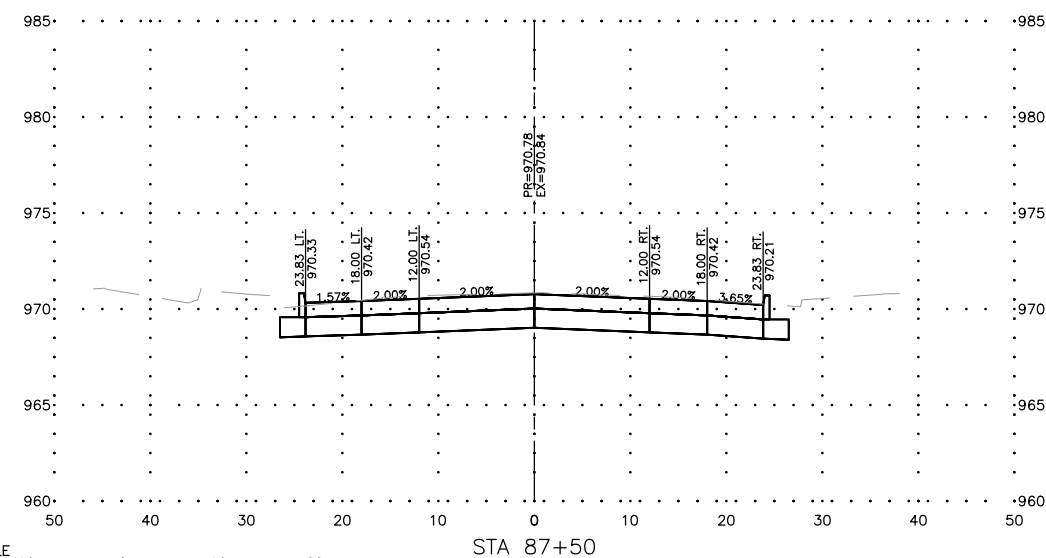
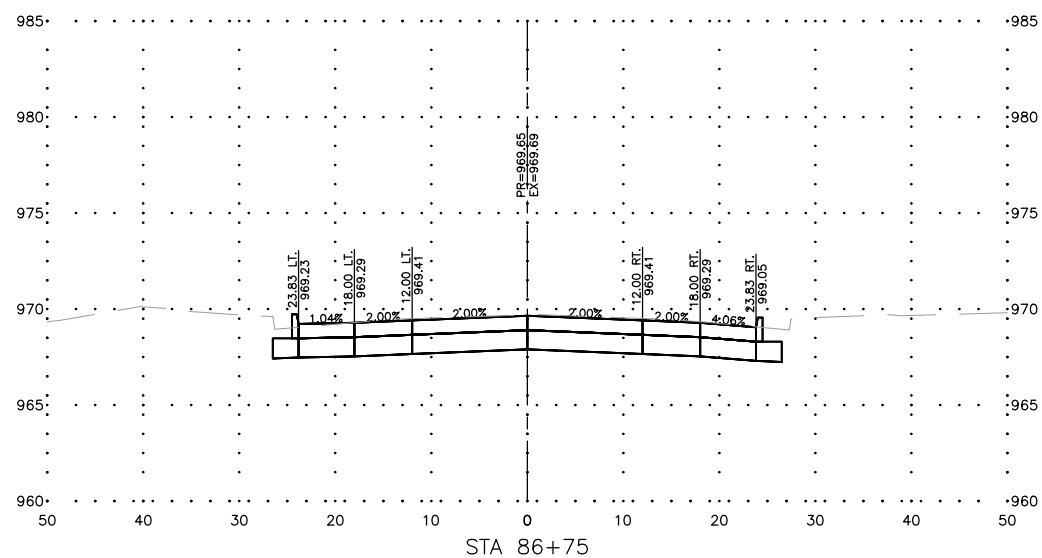
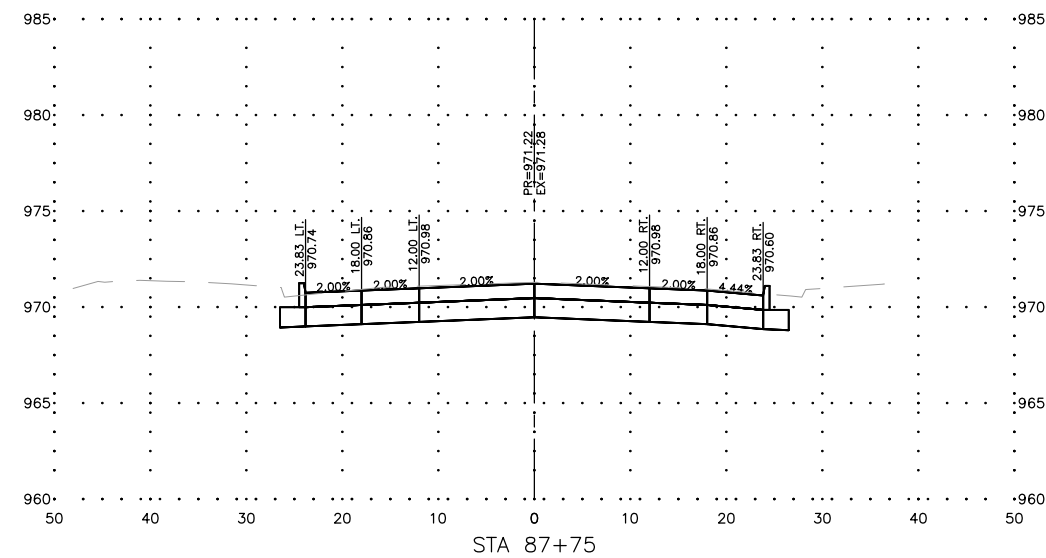
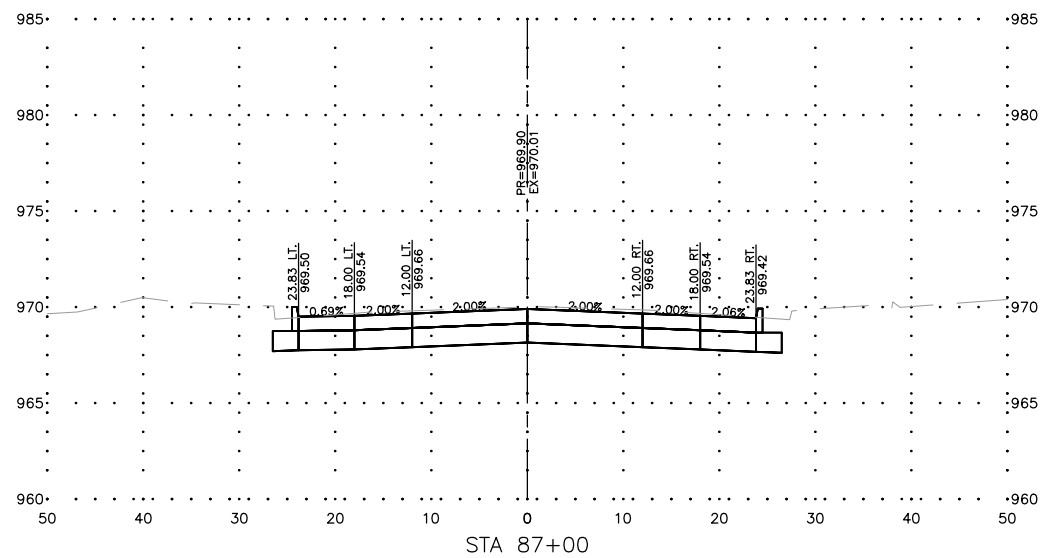
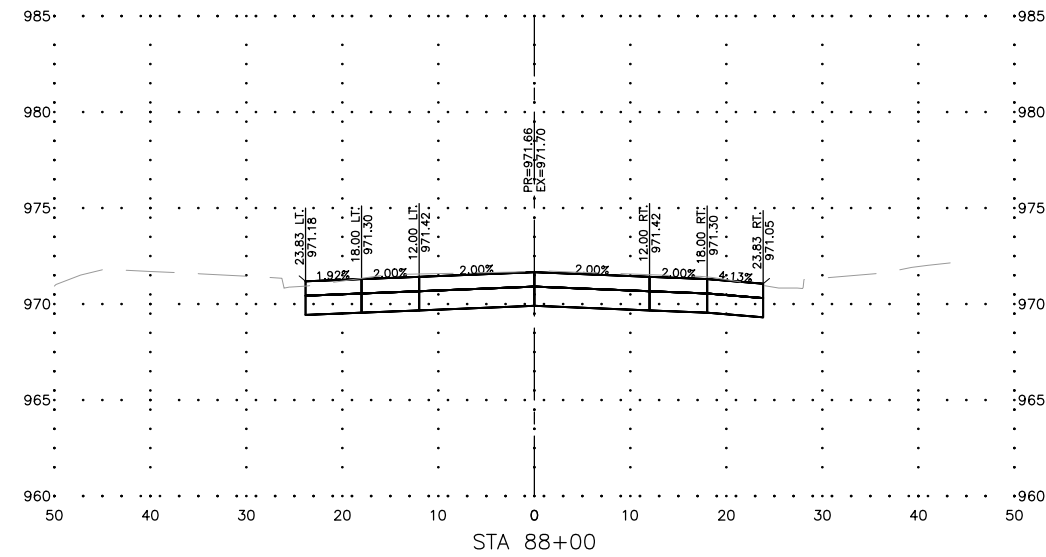
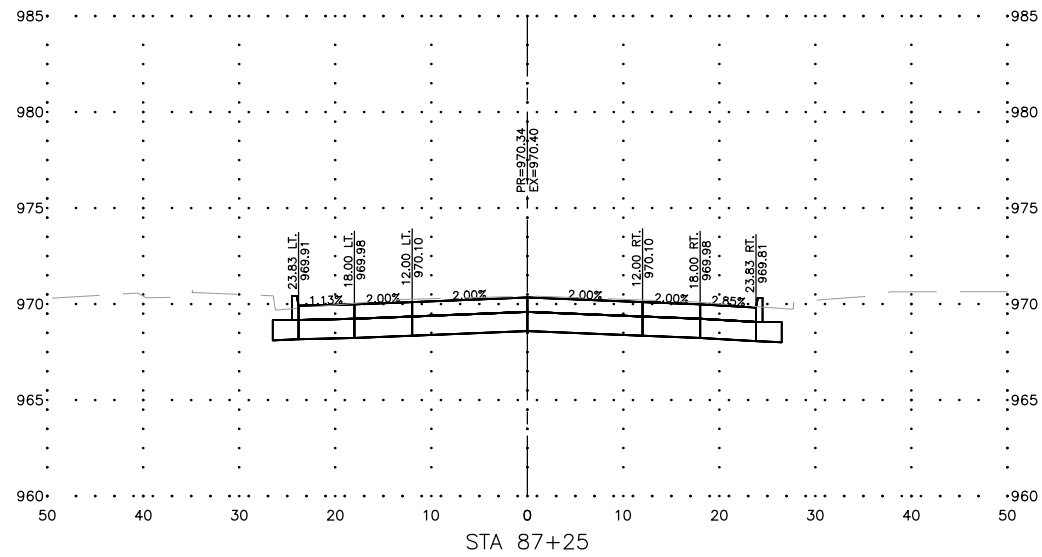
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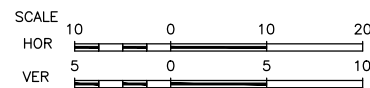
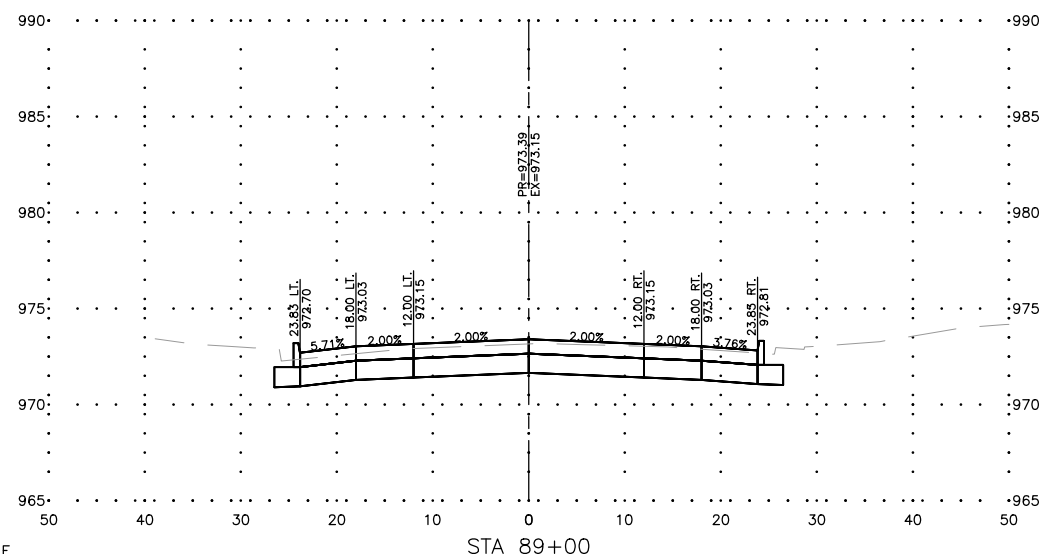
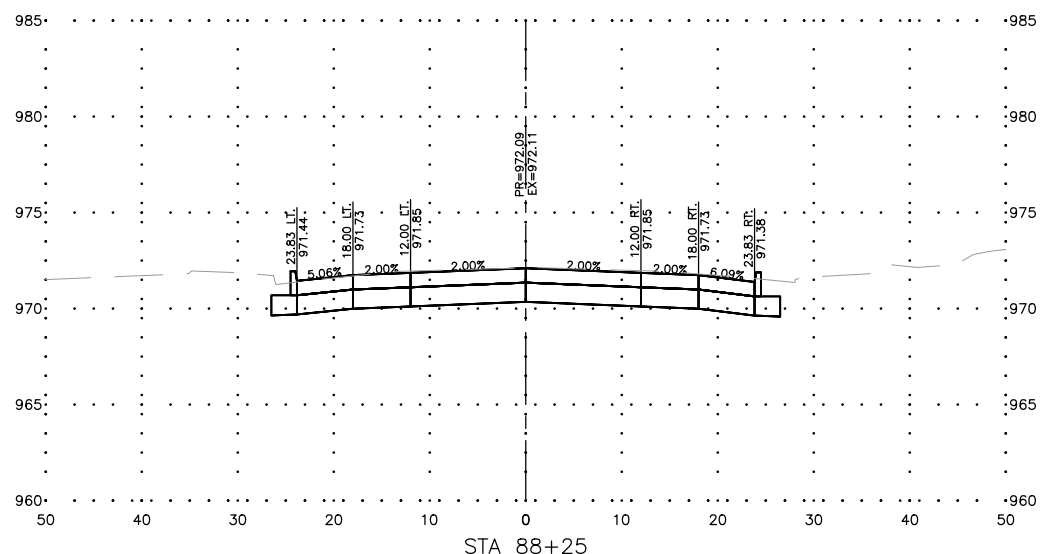
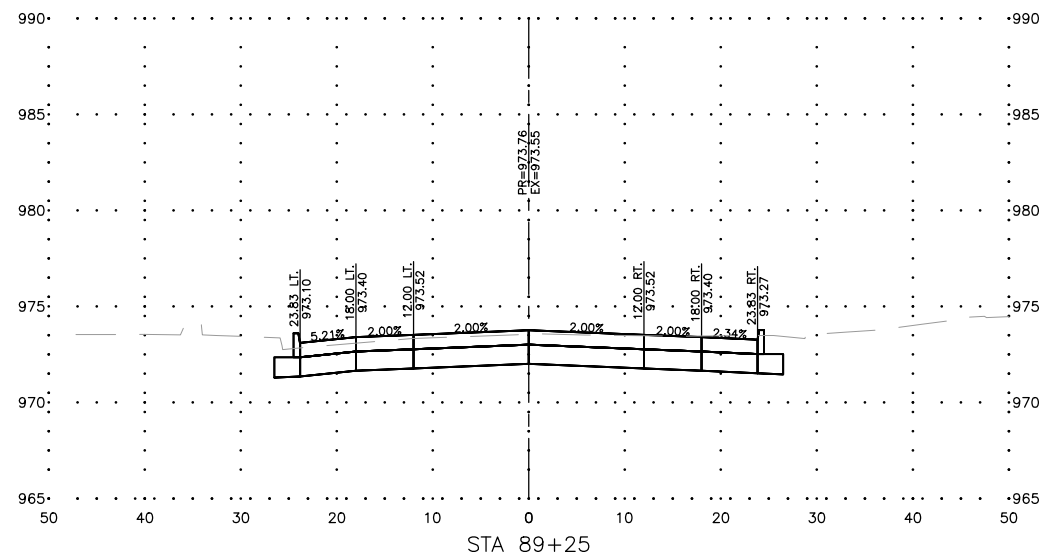
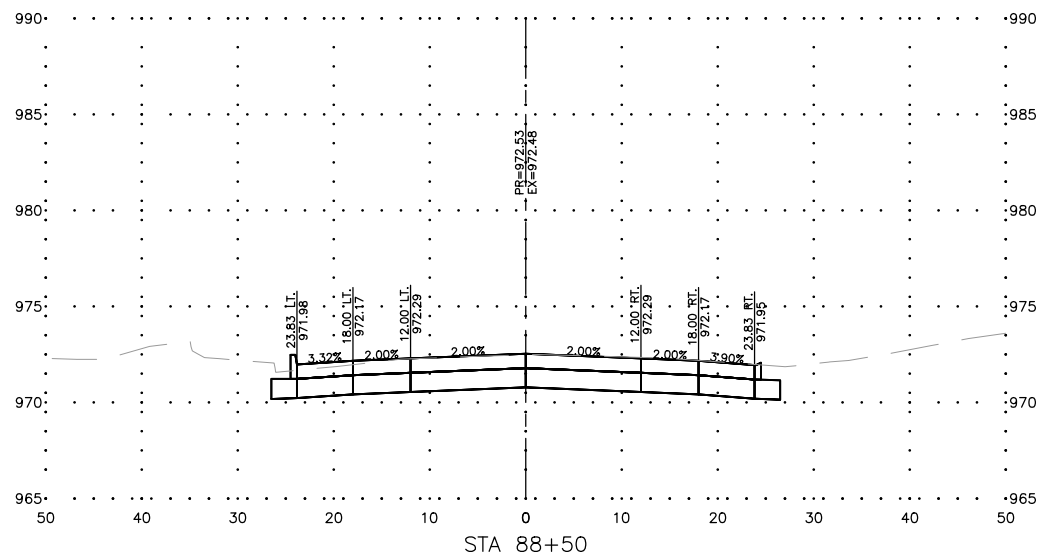
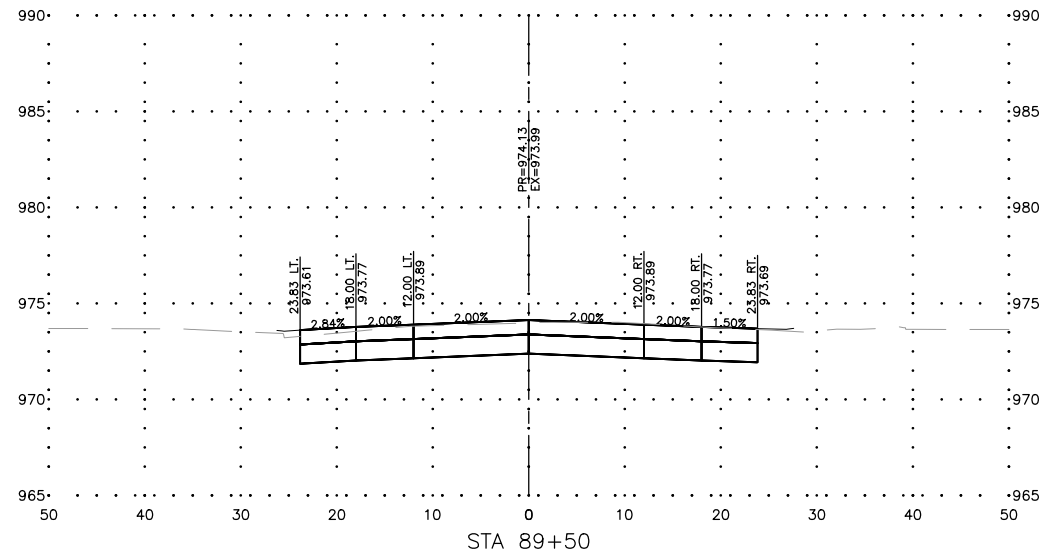
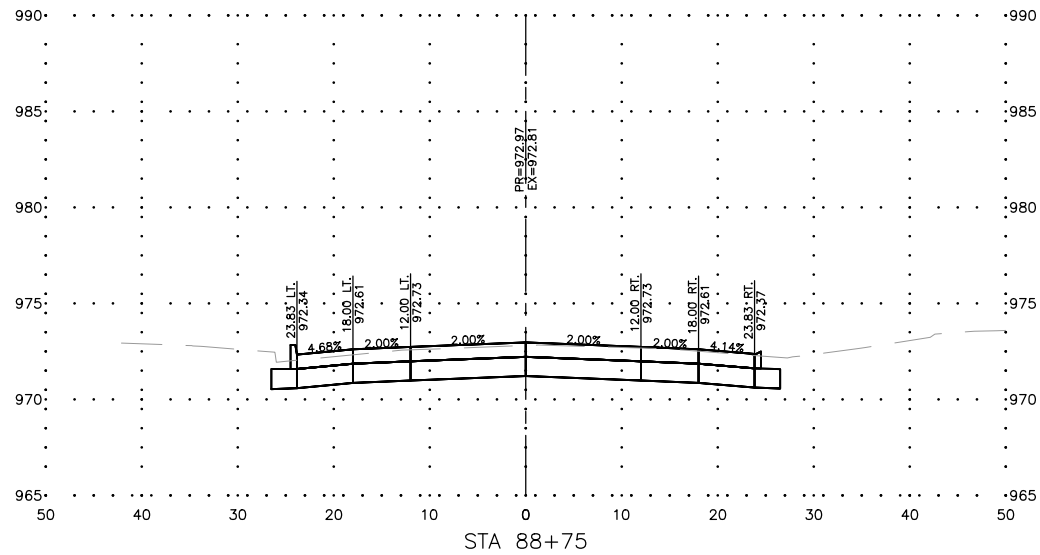
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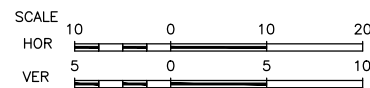
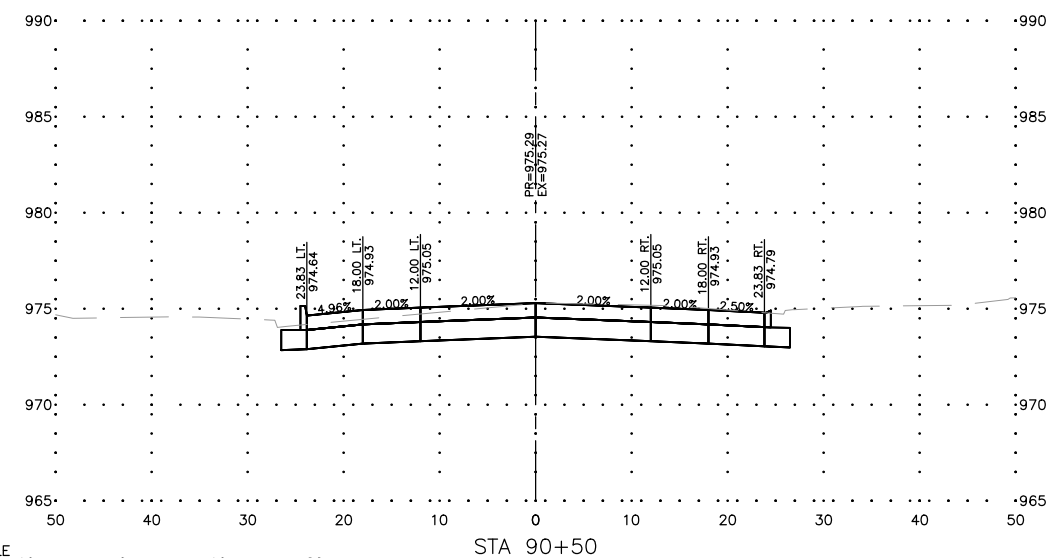
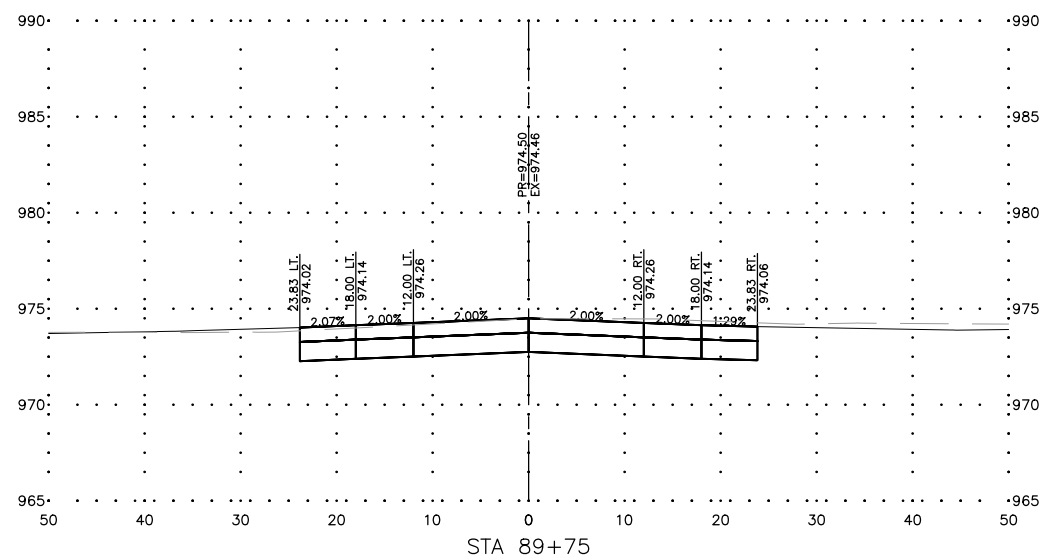
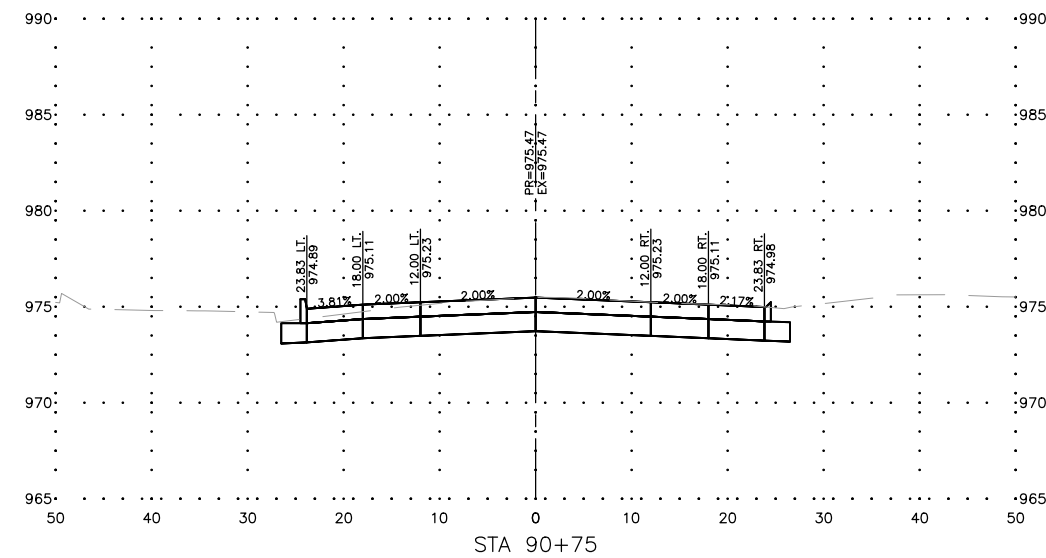
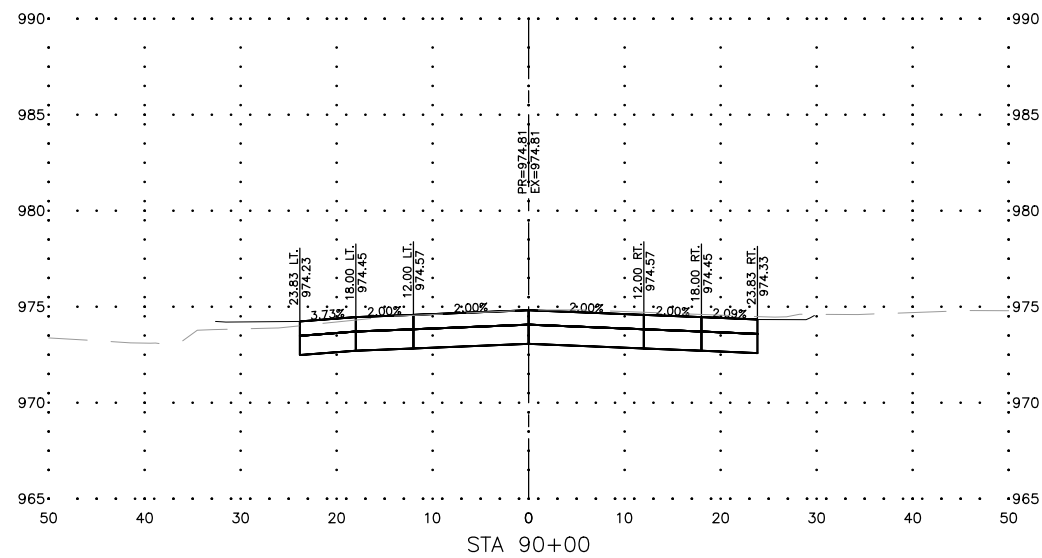
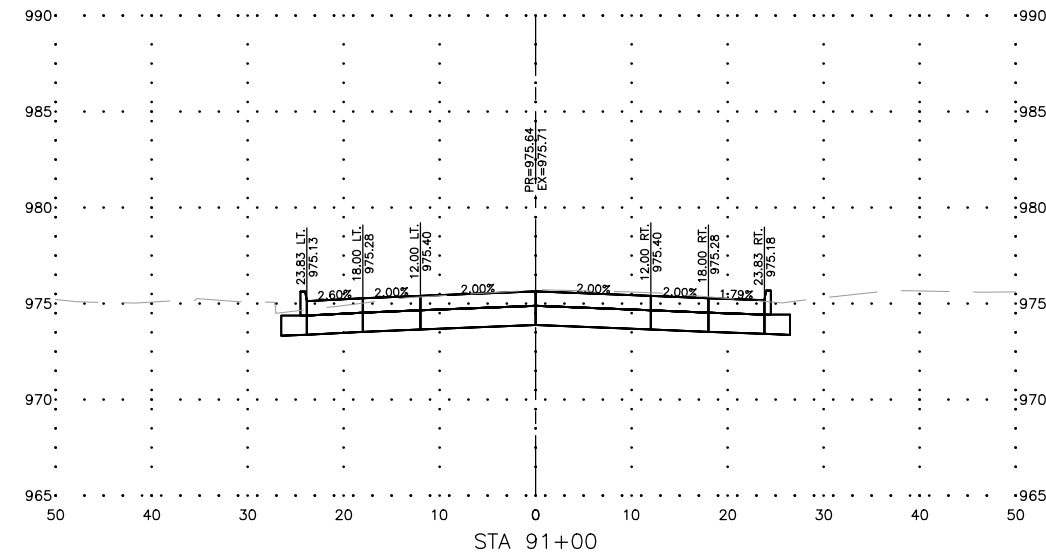
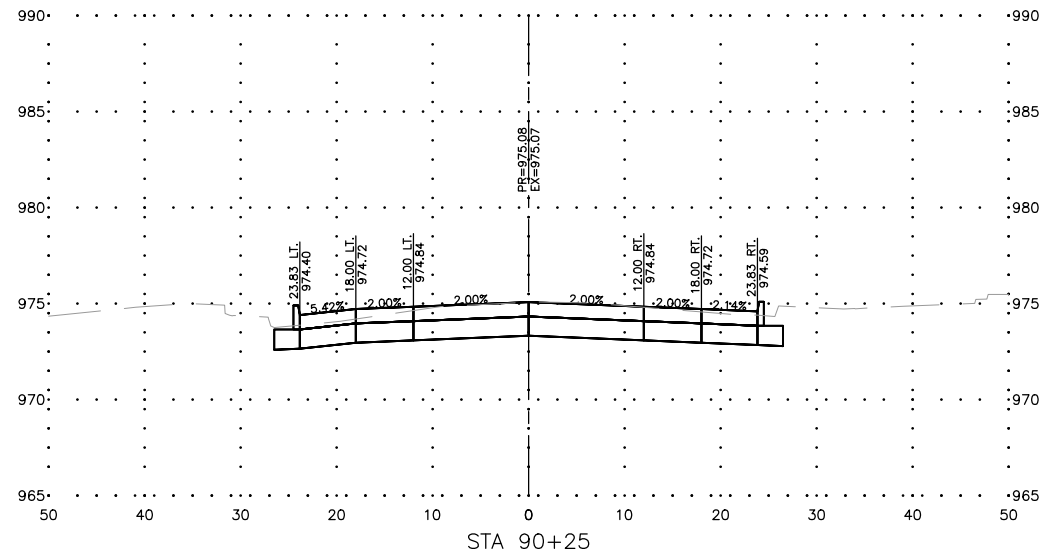
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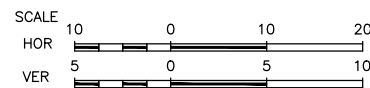
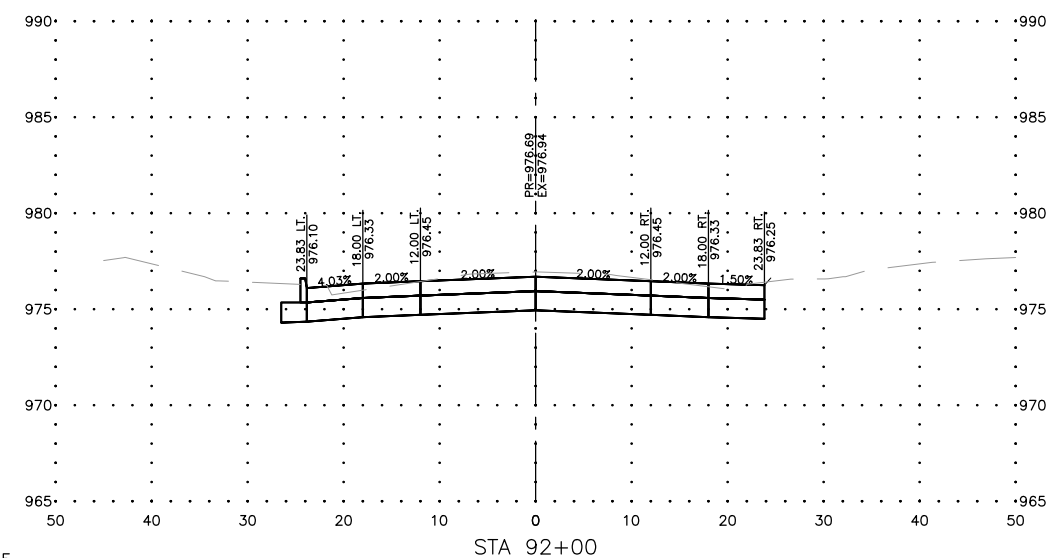
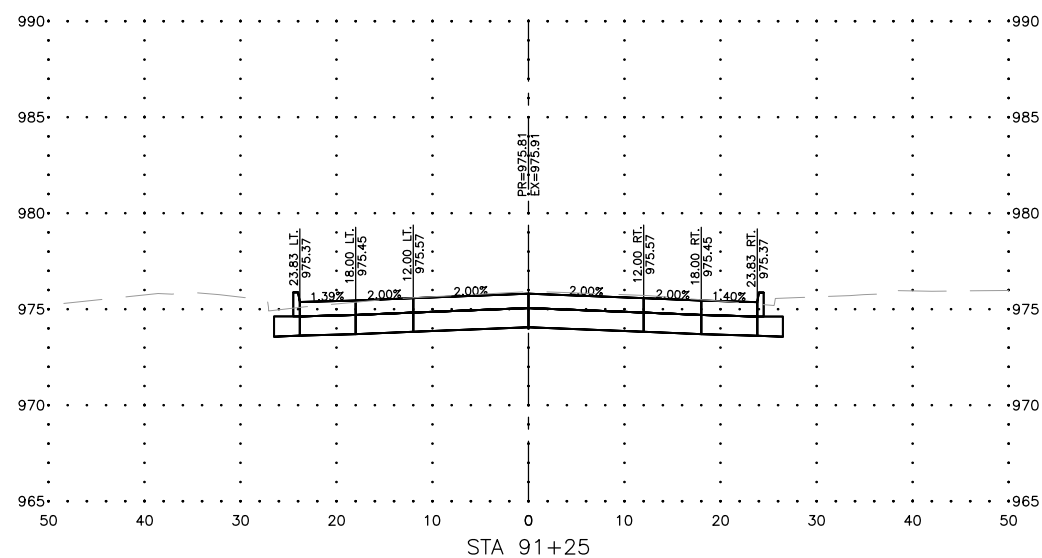
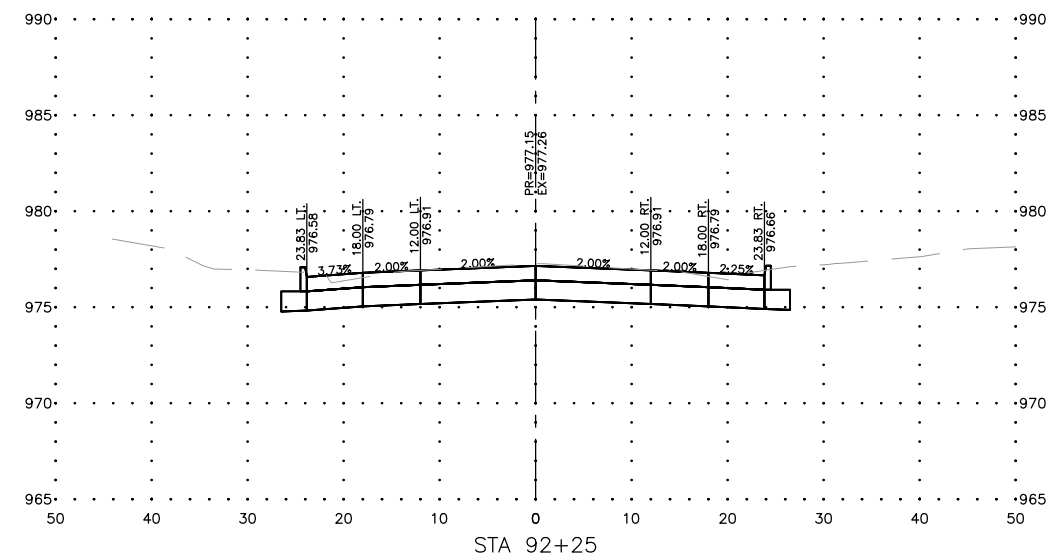
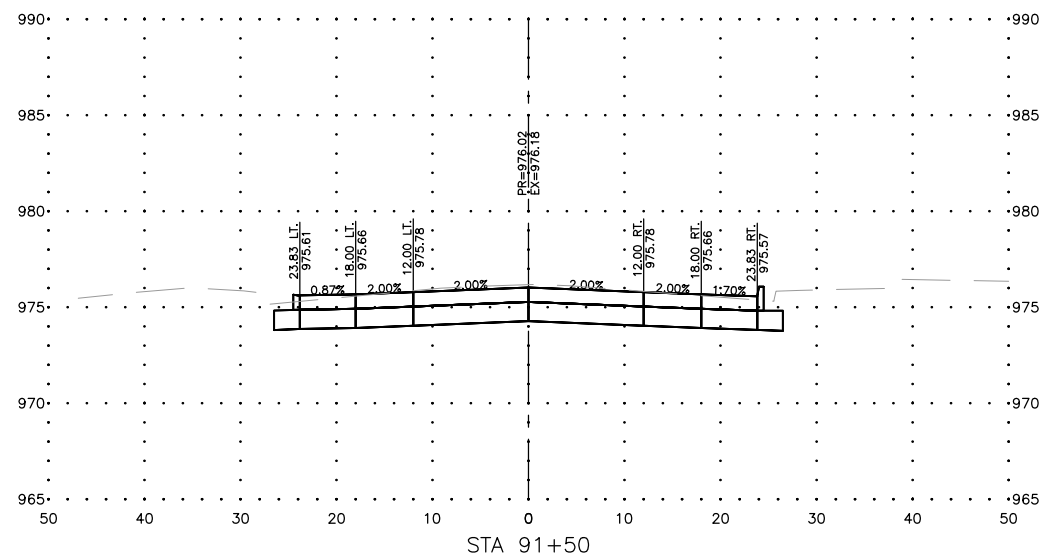
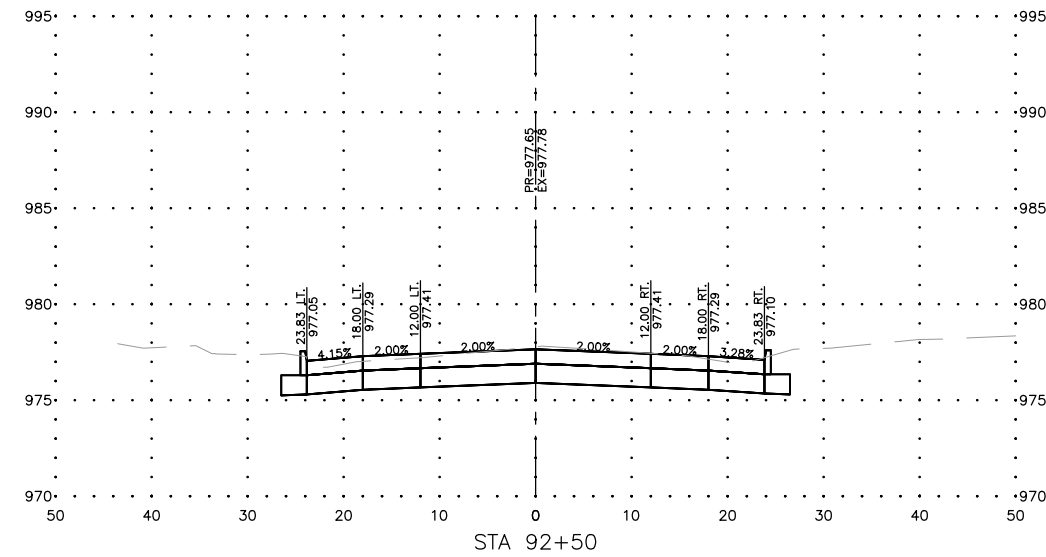
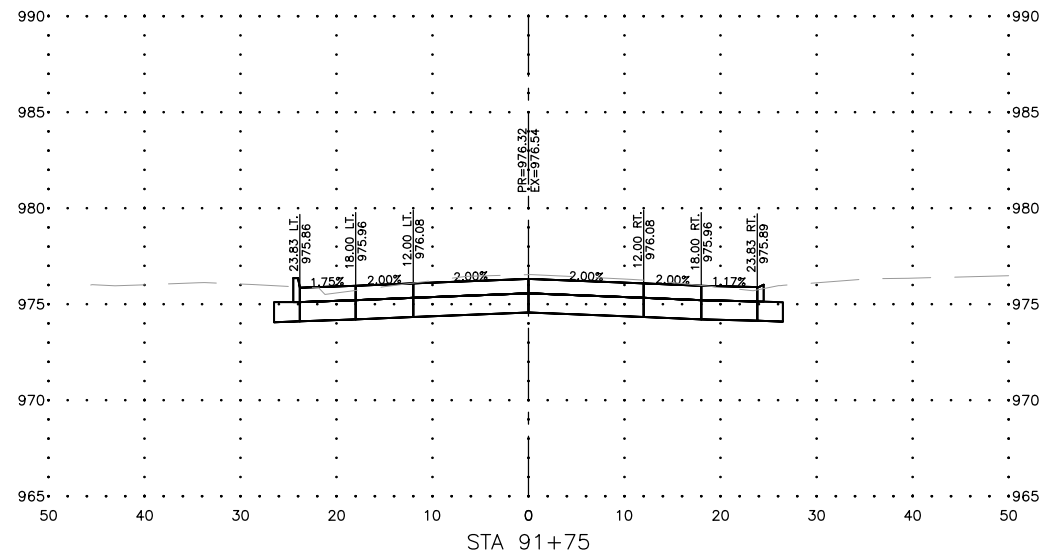
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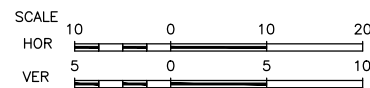
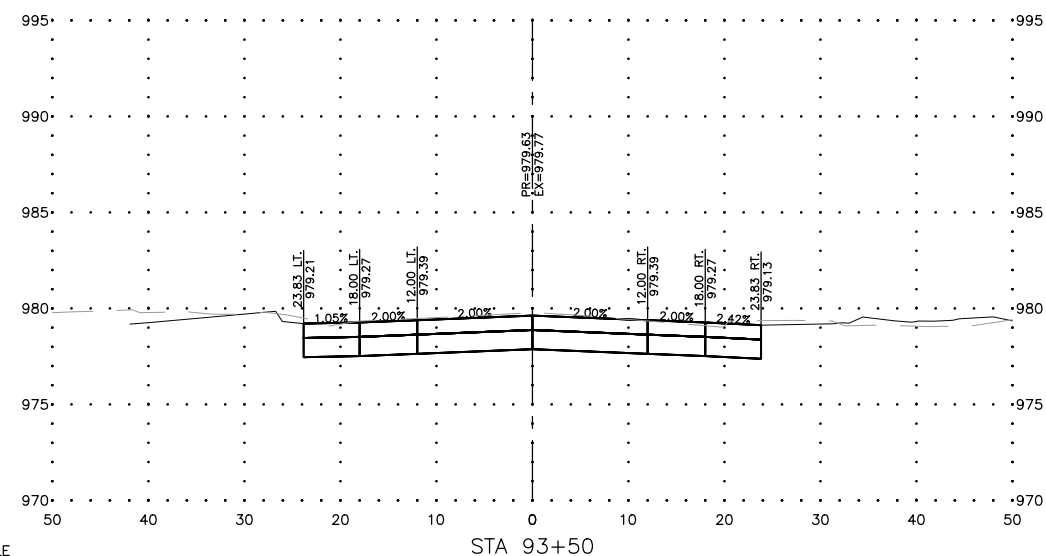
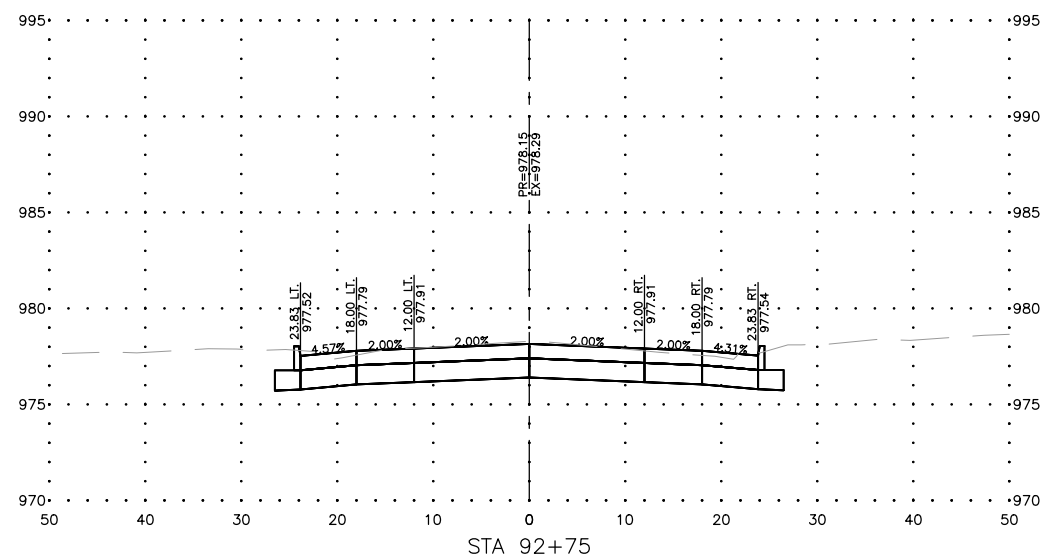
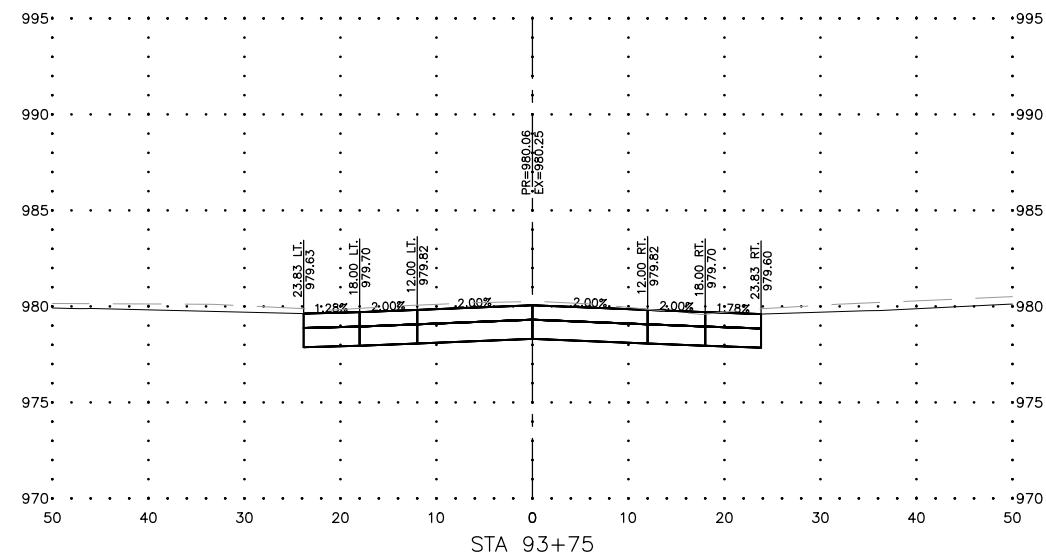
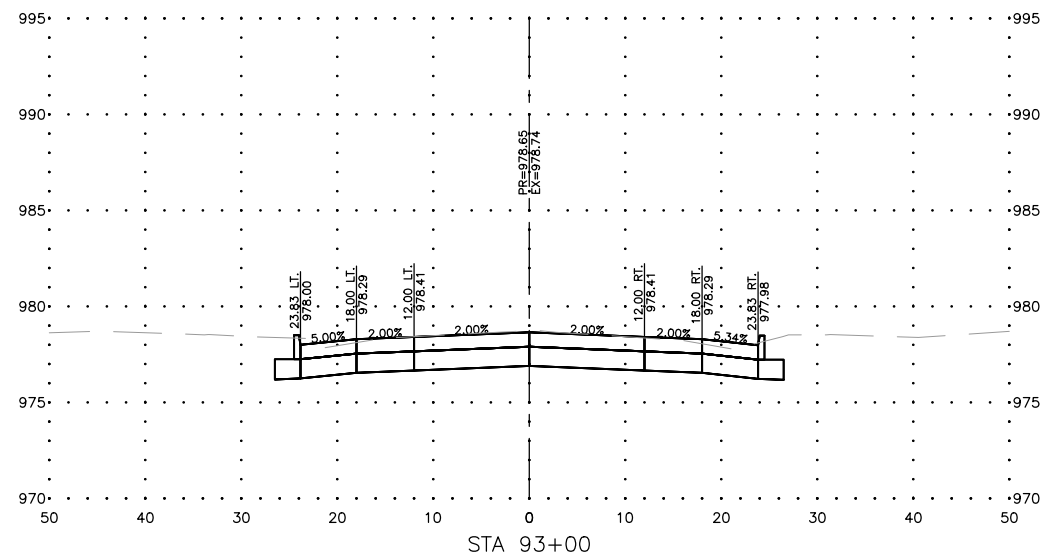
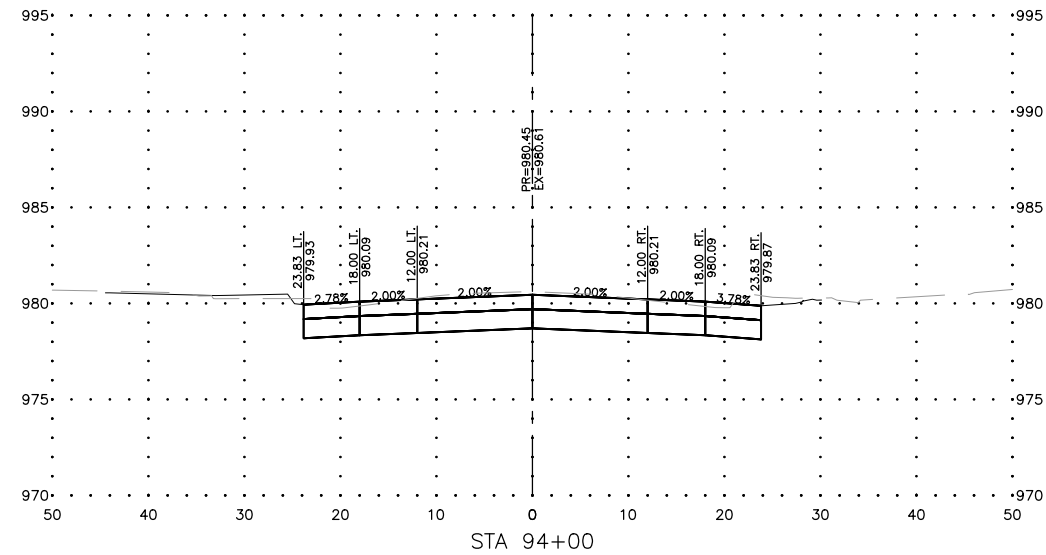
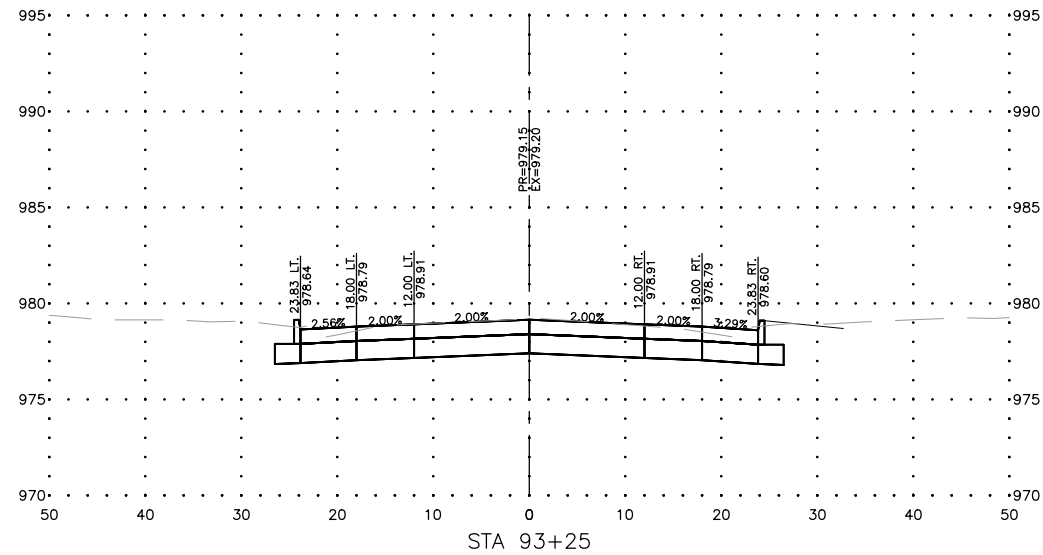
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
CROSS SECTIONS - E MAIN STREET

SET TYPE: BID LETTING
G:\CSD\22-1100 Fairbank Hwy 281-2-100 CORRIDOR.dwg, E MAIN (6)

JOB NUMBER:
22-1100

SHEET NUMBER:
W.06



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FAIRBANK, IA 50629

PROJECT AND LOCATION:
MAIN STREET IMPROVEMENTS
FAIRBANK, IOWA
BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

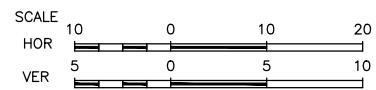
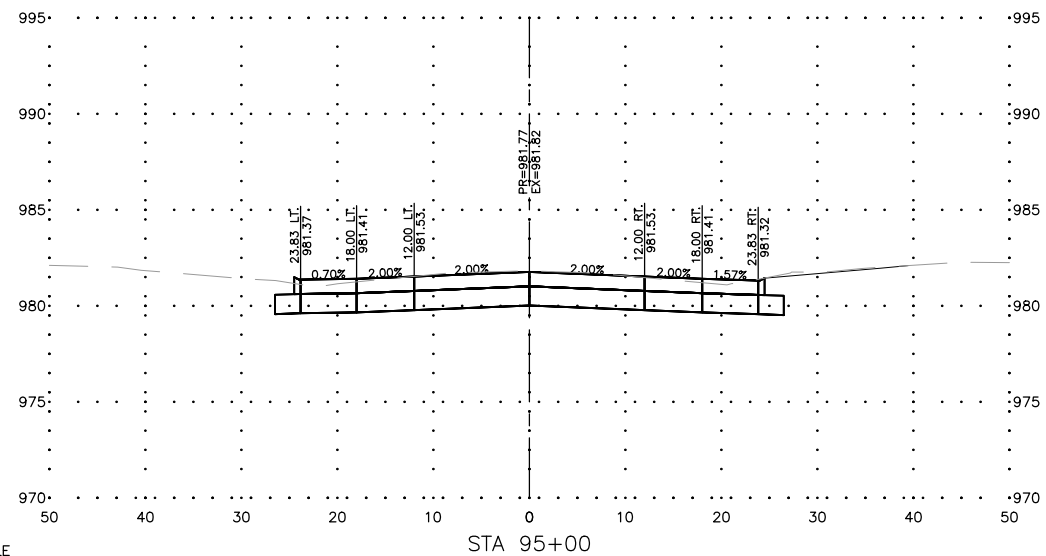
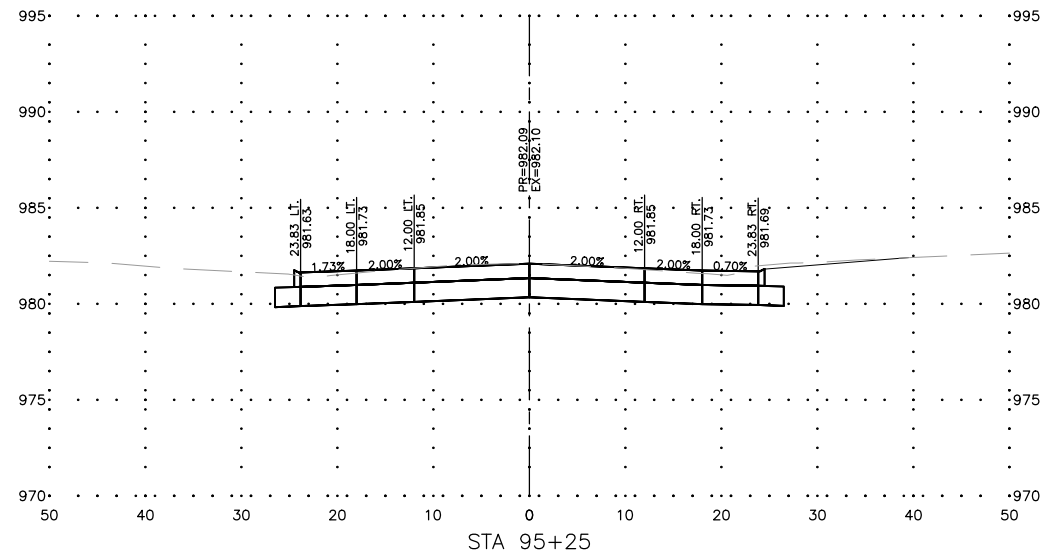
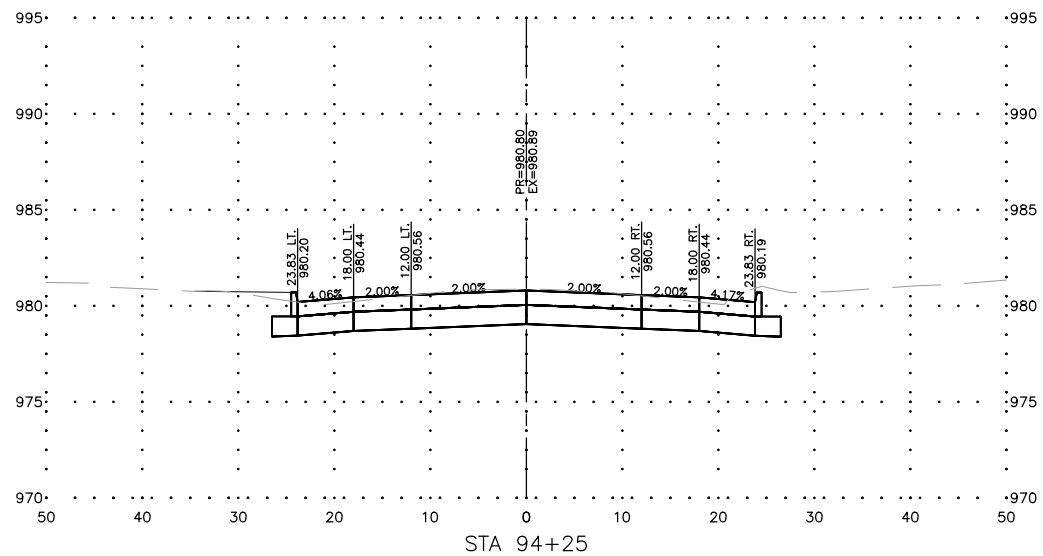
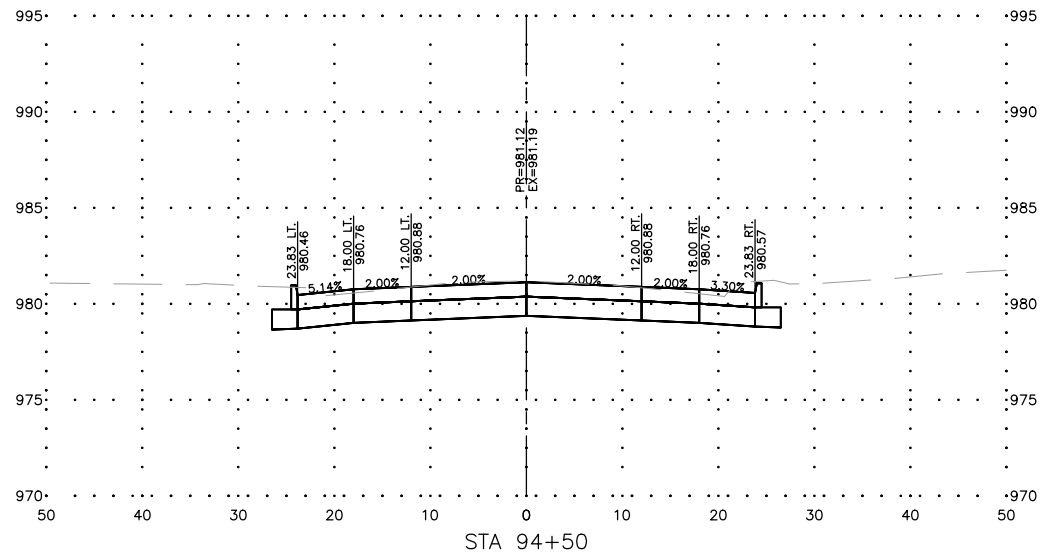
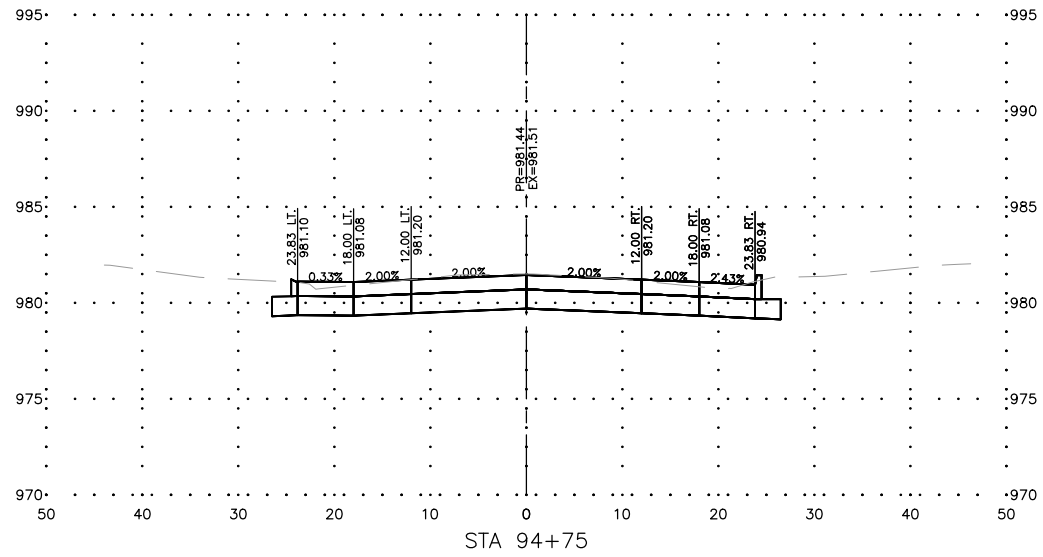
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
CROSS SECTIONS - E MAIN STREET

SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\22-1100 CORRORR.dwg, E MAIN (7)

JOB NUMBER:
22-1100

SHEET NUMBER:
W.07



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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

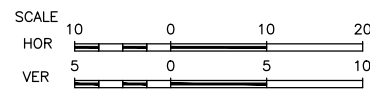
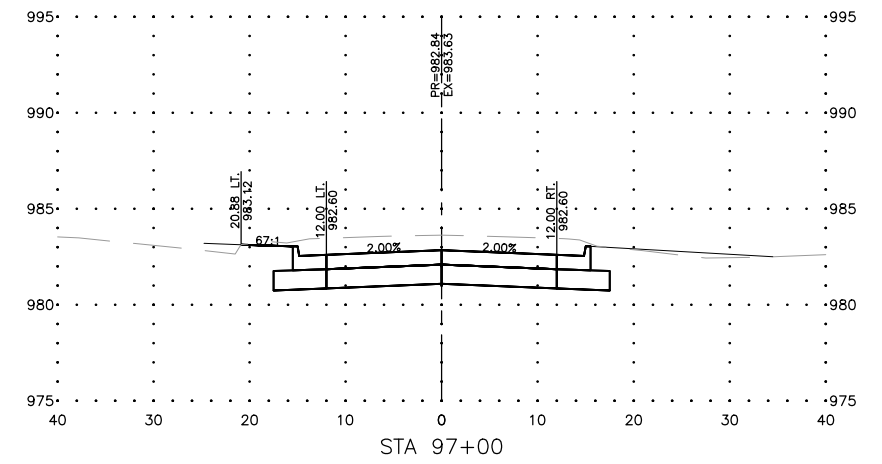
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
CROSS SECTIONS - E MAIN STREET

SET TYPE: BID LETTING
G:\C30\22\22-1100 Fairbank Hwy 281\22-1100 CORROR.dwg, E MAIN (8)

JOB NUMBER:
22-1100

SHEET NUMBER:
W.08



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BUCHANAN COUNTY
STPN-281-2(10)--2J-10

DRAWN BY: AFC
APPROVED BY: JSB
DATE: 10/27/22
SCALE: AS NOTED

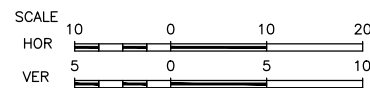
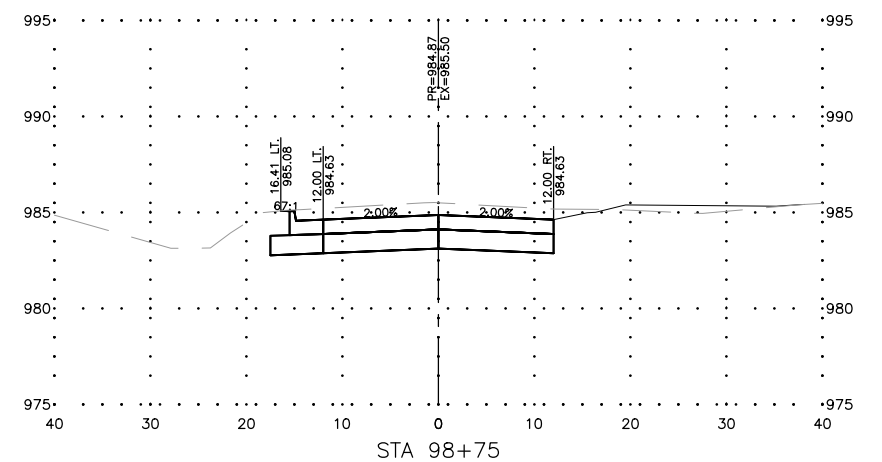
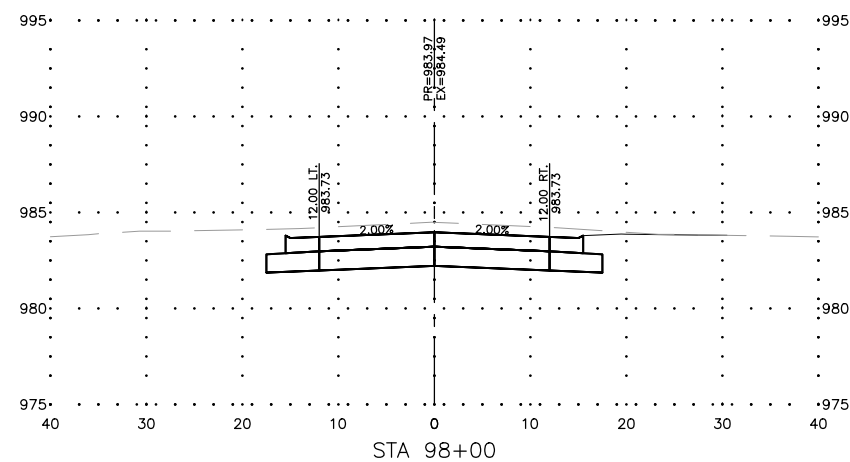
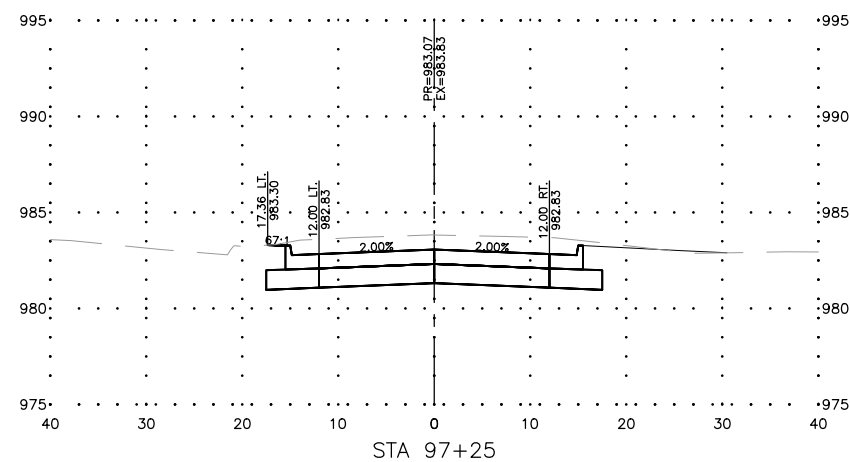
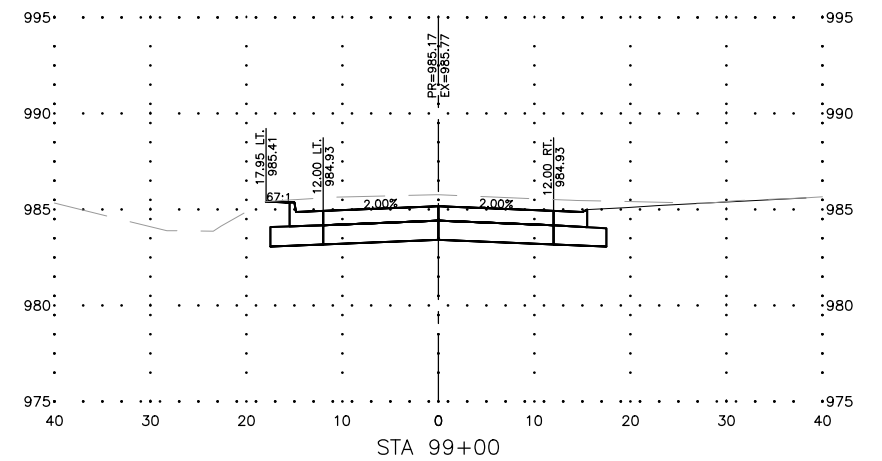
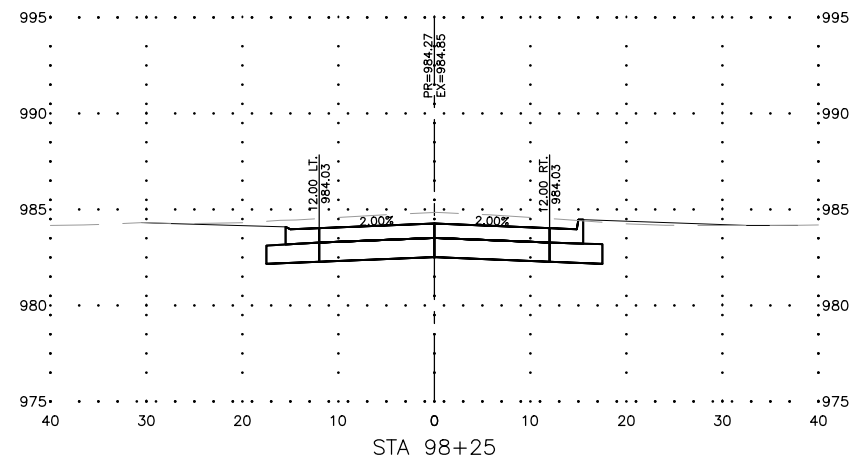
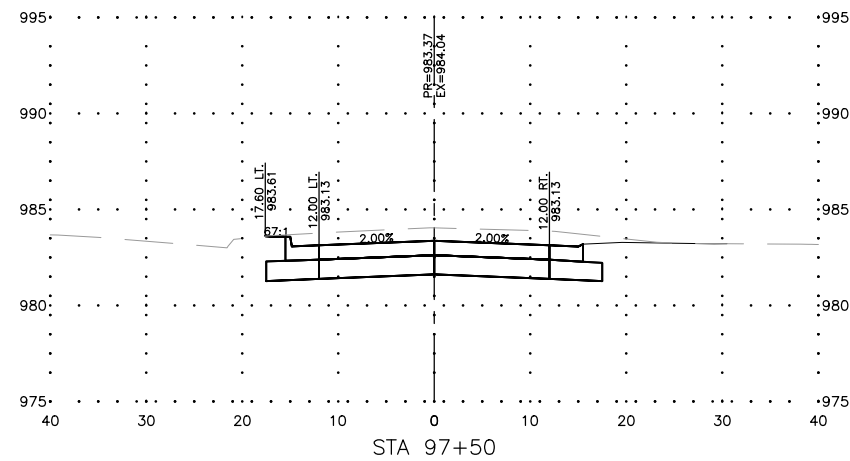
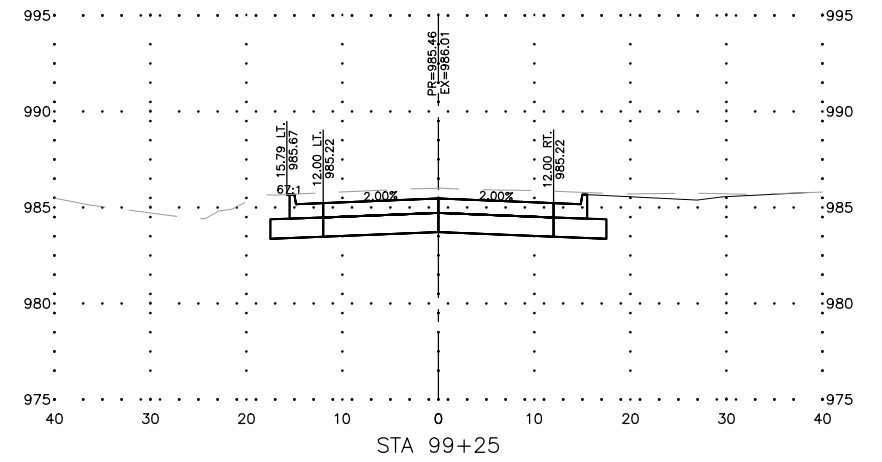
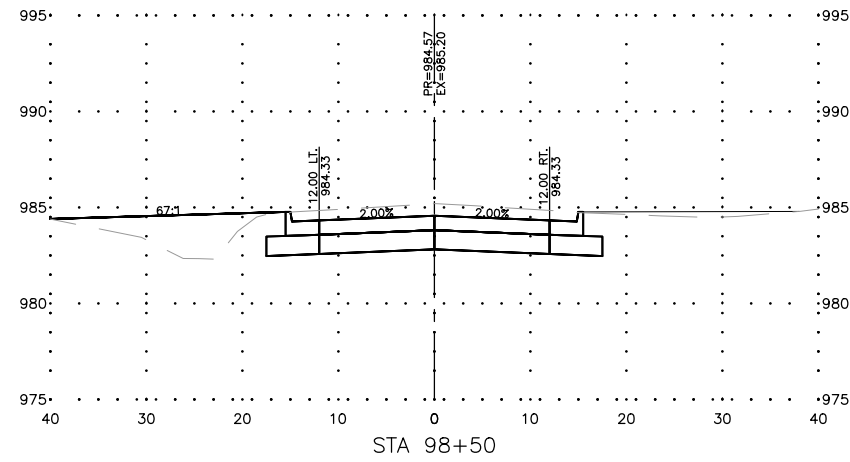
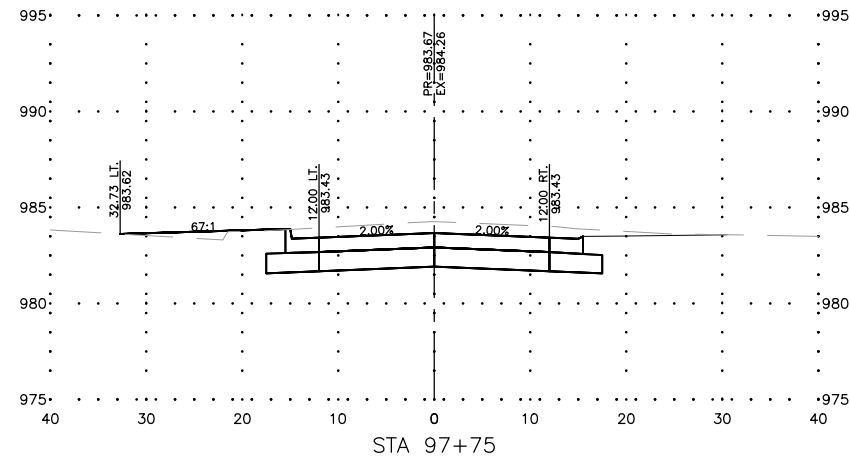
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
CROSS SECTIONS - 4TH STREET

SET TYPE: BID LETTING
G:\C30\22\22-1100 Fairbank Hwy 281\22-1100 CORRIDOR.dwg, 4TH (9)

JOB NUMBER:
22-1100

SHEET NUMBER:
W.09



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STPN-281-2(10)--2J-10

DRAWN BY: AFC
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DATE: 10/27/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
CROSS SECTIONS - 4TH STREET

SET TYPE: BID LETTING
G:\C30\22-1100 Fairbank Hwy 281\22-1100 CORR00R.dwg, 4TH (10)

JOB NUMBER:
22-1100

SHEET NUMBER:
W.10