



LOCATION



CITY OF KALAMAZOO, MICHIGAN

N 33RD STREET TRANSMISSION MAIN



2021



ADMINISTRATION

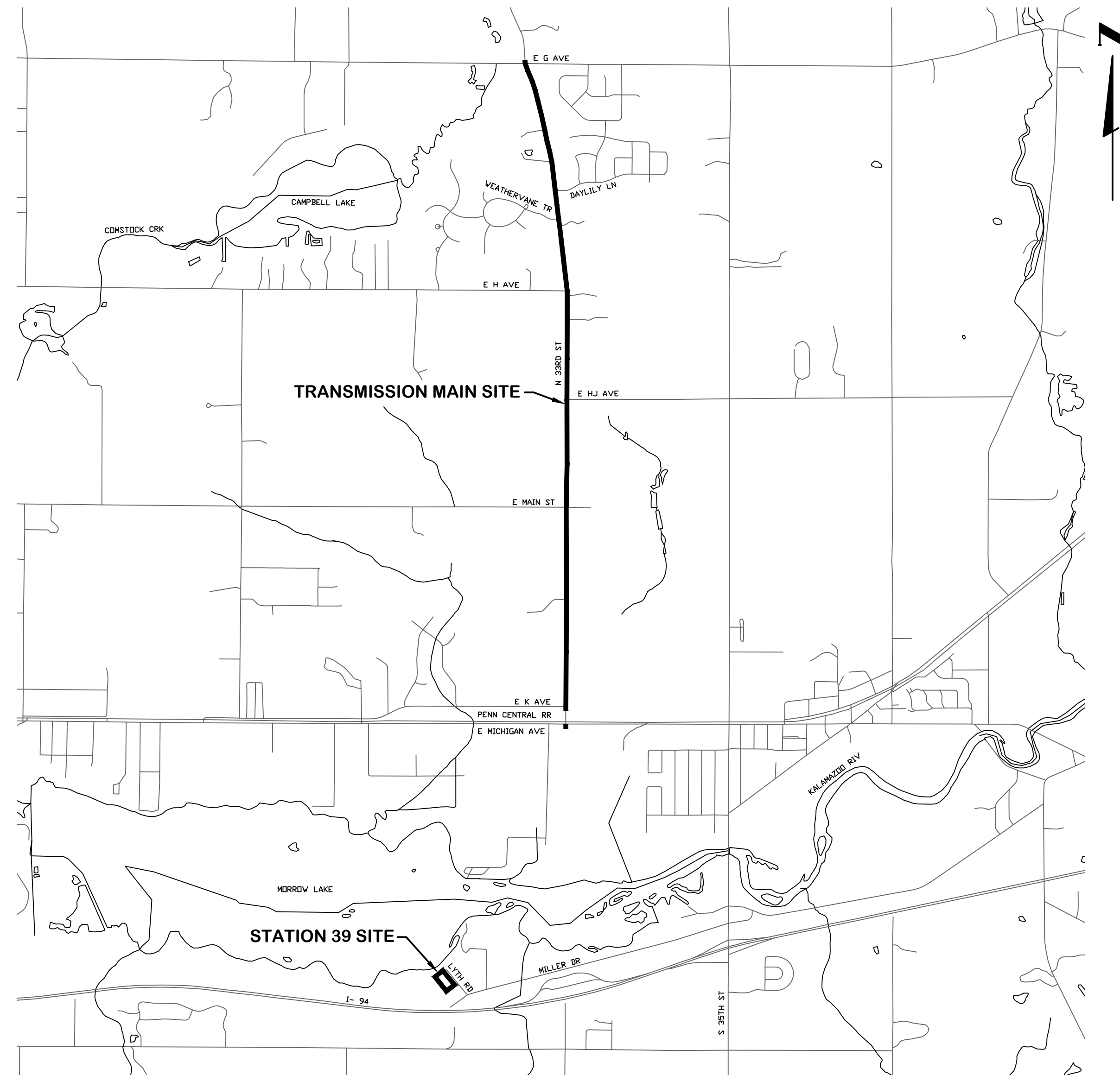
JAMES RITSEMA - CITY MANAGER
 JAMES BAKER, PE - PUBLIC SERVICES DIRECTOR
 STEPHEN SKALSKI, PE - ASSISTANT CITY ENGINEER - WATER SUPERINTENDANT



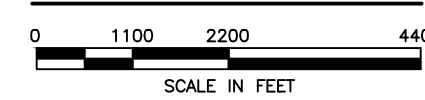
MEMBERS OF COMMISSION

DAVID ANDERSON - MAYOR

PATRESE GRIFFIN - VICE MAYOR	ERIN KNOTT
JACK URBAN	ERIC CUNNINGHAM
JEANNE HESS	CHRIS PRAEDEL

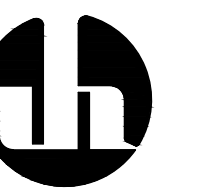


LOCATION MAP



KAL-7675001COVER-COVER
 11/15/2021 4:19 PM - SWILLIS
 11/19/2021 3:18 PM

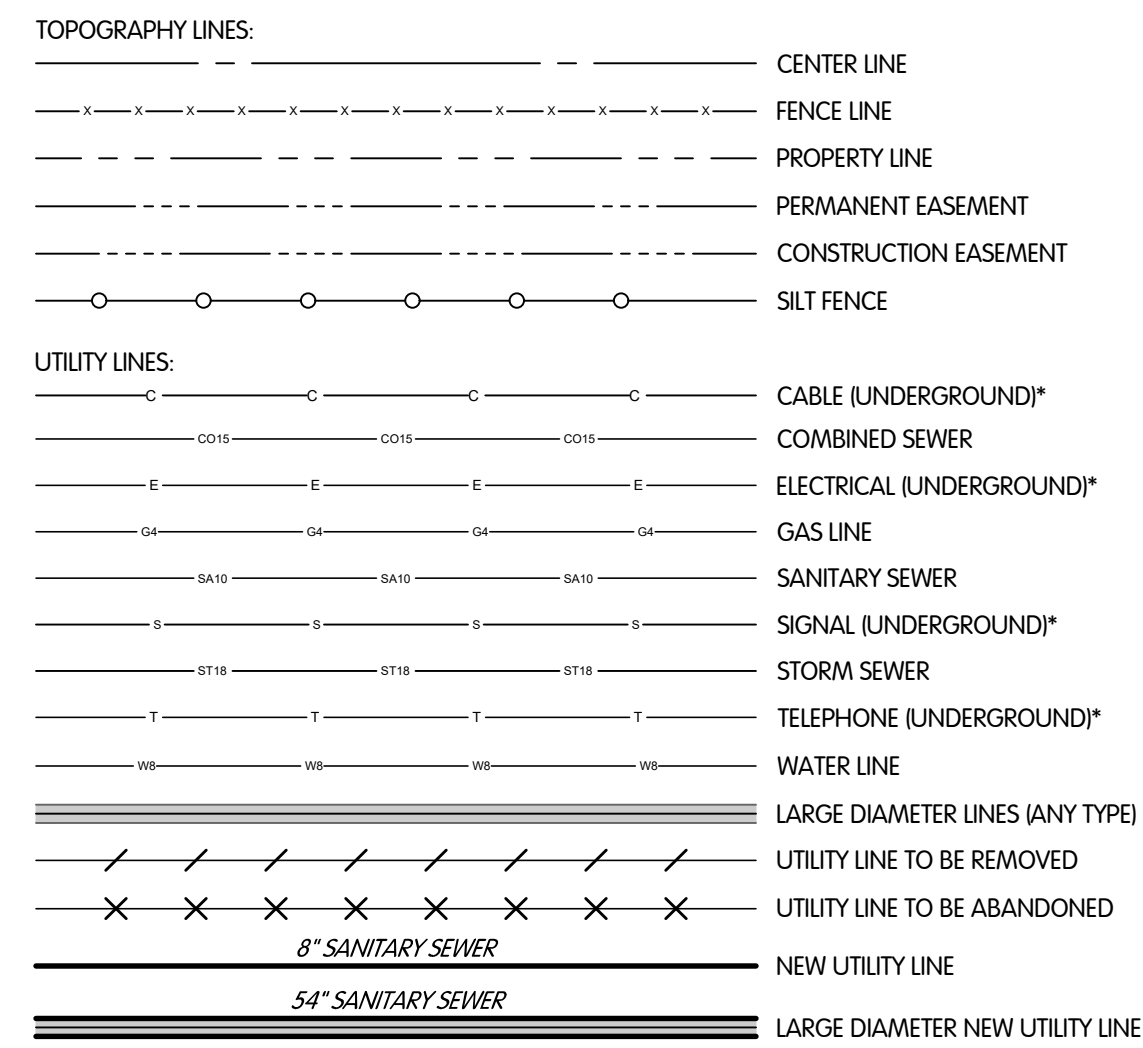
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STATUS: PERMIT SET
 DATE: NOVEMBER, 2021

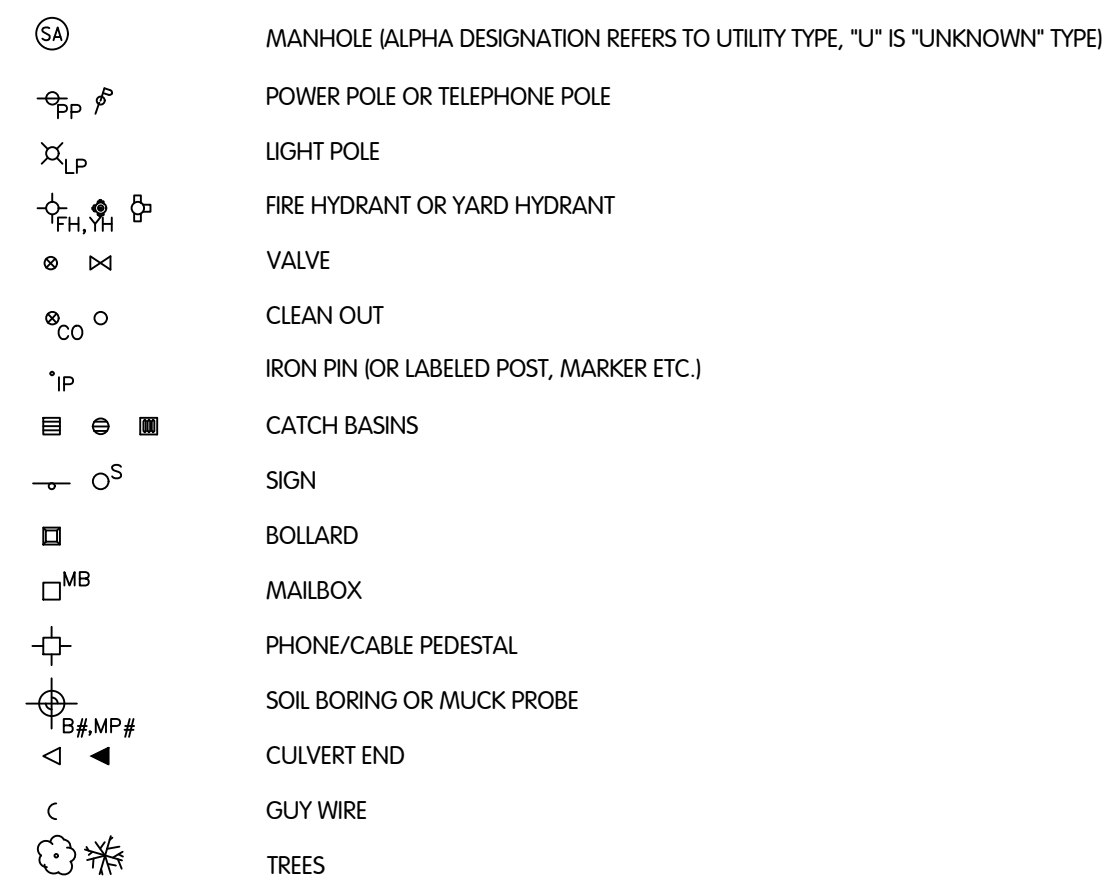
TOPOGRAPHY LEGEND



ALPHA DESIGNATION REFERS TO UTILITY TYPE, NUMERICAL DESIGNATION REFERS TO PIPE NOMINAL DIAMETER. LINES WITH NO NUMERICAL DESIGNATION ARE OF UNKNOWN SIZE.

* AERIAL LINES, IF SHOWN, ARE DESIGNATED WITH LOWER CASE LETTERS

SYMBOLS:



STANDARD ABBREVIATIONS

ALUM. AVE.	ALUMINUM AVENUE	MAX. MH	MAXIMUM MANHOLE
BM	BENCH MARK	MJ	MECHANICAL JOINT
BF	BLIND FLANGE	MIN.	MINIMUM
BLDG.	BUILDING	N	NORTH
C/C	CENTER TO CENTER	NTS	NOT TO SCALE
CKD PL.	CHECKERED PLATE	OC	ON CENTER
CONC.	CONCRETE	OD	OUTSIDE DIAMETER
DIA.	DIAMETER	PE	PLAIN END
DIWG.	DRAWING	R	RADIUS
EW	EACH WAY	RR	RAILROAD
EF	EACH FACE	S	SOUTH
ECC.	ECCENTRIC	SCH.	SCHEDULE
EL.	ELEVATION	SH.	SHEET
E	EAST	SS	STAINLESS STEEL
EX.	EXISTING	ST.	STREET
F	FLANGE	STA.	STATION
' OR FT.	FEET OR FOOT	T&B	TOP AND BOTTOM
GAL	GALLON	TYP.	TYPICAL
GRD	GRADE	VERT.	VERTICAL
HOR.	HORIZONTAL	W	WEST
" OR IN.	INCH	W/	WITH
ID	INSIDE DIAMETER		
INV. EL.	INVERT ELEVATION		

PIPING ABBREVIATIONS

MATERIAL

ABS	ABS ACRYLONITRILE-BUTADIENE-STYRENE
ABSC	ABS COMPOSITE SEWER PIPE (TRUSS PIPE)
BSP	BLACK STEEL PIPE
CIP	CAST IRON PIPE
CISP	CAST IRON SOIL PIPE
CMP	CORRUGATED METAL PIPE
CPP	CONCRETE PRESSURE PIPE
CPT	CORRUGATED POLYETHYLENE TUBING
CPVC	CHLORINATED POLYVINYL CHLORIDE PIPE
Cu	COPPER TUBING OR PIPING
DIP	DUCTILE IRON PIPE
FRP	FIBERGLASS REINFORCED PIPE
GLDIP	GLASS-LINED DUCTILE IRON PIPE
GSP	GALVANIZED STEEL PIPE
HDPE	HIGH DENSITY POLYETHYLENE
PCP	PLAIN CONCRETE PIPE
PE	POLYETHYLENE
PP	POLYPROPYLENE
PPVC	PERFORATED POLYVINYL CHLORIDE PIPE
PVC	POLYVINYL CHLORIDE PIPE
PVCP	PERFORATED VITRIFIED CLAY PIPE
PVDF	POLYVINYLIDENE FLUORIDE (KYNAR)
RCP	REINFORCED CONCRETE PIPE
SP	STEEL PIPE
SSP	STAINLESS STEEL PIPE
SWS	SPIRAL WELDED STEEL
UPVC	UNPLASTICIZED POLYVINYL CHLORIDE PIPE
VCP	VITRIFIED CLAY PIPE

SERVICE

PS	PRIMARY SLUDGE
RAS	RETURN ACTIVATED SLUDGE
WAS	WASTE ACTIVATED SLUDGE
DS	DIGESTED SLUDGE
SC	SCUM
SP	SUPERNATANT
NG	DIGESTER GAS
DG	NATURAL GAS
CW	CITY WATER
HW	HOT CITY WATER
EW	EFFLUENT WATER
PW	PROTECTED WATER
CA	COMPRESSED AIR
TD	TANK DRAIN
SS	SANITARY SEWER
ST	STORM SEWER

INDEX

Sheet List Table		
Page Number	Sheet Number	Sheet Title
GENERAL		
1	G-1	LEGEND & INDEX
2	G-2	WATER LINE, SURFACE RESTORATION, & MISCELLANEOUS DETAILS
3	G-3	WETLAND DETAILS & SOIL BORINGS
4	G-4	SITE LOCATION MAP & SITE ALIGNMENT PLAN
TRANSMISSION MAIN - WATER		
5	W-1	N 33RD ST - WATER STA 0+00-3+00
6	W-2	N 33RD ST - WATER STA 3+00-8+50
7	W-3	N 33RD ST - WATER STA 8+50-14+00
8	W-4	N 33RD ST - WATER STA 14+00-19+50
9	W-5	N 33RD ST - WATER STA 19+50-25+00
10	W-6	N 33RD ST - WATER STA 25+00-30+50
11	W-7	N 33RD ST - WATER STA 30+50-36+00
12	W-8	N 33RD ST - WATER STA 36+00-41+50
13	W-9	N 33RD ST - WATER STA 41+50-47+00
14	W-10	N 33RD ST - WATER STA 47+00-52+50
15	W-11	N 33RD ST - WATER STA 52+50-58+00
16	W-12	N 33RD ST - WATER STA 58+00-63+50
17	W-13	N 33RD ST - WATER STA 63+50-69+00
18	W-14	N 33RD ST - WATER STA 69+00-74+50
19	W-15	N 33RD ST - WATER STA 74+50-80+00
20	W-16	N 33RD ST - WATER STA 80+00-85+50
21	W-17	N 33RD ST - WATER STA 85+50-91+00
22	W-18	N 33RD ST - WATER STA 91+00-96+50
23	W-19	N 33RD ST - WATER STA 96+50-102+00
24	W-20	N 33RD ST - WATER STA 102+00-107+50
25	W-21	N 33RD ST - WATER STA 107+50-113+00
26	W-22	N 33RD ST - WATER STA 113+00-118+50
27	W-23	N 33RD ST - WATER STA 118+50-124+00
28	W-24	N 33RD ST - WATER STA 124+00-129+50
29	W-25	N 33RD ST - WATER STA 129+50-135+00
30	W-26	N 33RD ST - WATER STA 135+00-140+50
31	W-27	N 33RD ST - WATER STA 140+50-146+00
32	W-28	N 33RD ST - WATER STA 146+00-151+50
33	W-29	N 33RD ST - WATER STA 151+50-157+00
34	W-30	N 33RD ST - WATER STA 157+00-160+00 & 161+00-162+50
35	W-31	E K AVE, E MAIN ST, & E HJ AVE - WATER
36	W-32	E H AVE, WEATHERVANE TR, & DAYLILY LN - WATER
SURFACE RESTORATION		
37	SR-1	N 33RD ST - SURFACE RESTOR. STA 0+00-8+50 & MISC. DETAILS
38	SR-2	N 33RD ST - SURFACE RESTOR. STA 8+50-19+50 & MISC. DETAILS
39	SR-3	N 33RD ST - SURFACE RESTOR. STA 19+50-30+50 & MISC. DETAILS
40	SR-4	N 33RD ST - SURFACE RESTOR. STA 30+50-41+50 & MISC. DETAILS
41	SR-5	N 33RD ST - SURFACE RESTOR. STA 41+50-52+50 & MISC. DETAILS
42	SR-6	N 33RD ST - SURFACE RESTOR. STA 52+50-63+50 & MISC. DETAILS
43	SR-7	N 33RD ST - SURFACE RESTOR. STA 63+50-74+50 & MISC. DETAILS
44	SR-8	N 33RD ST - SURFACE RESTOR. STA 74+50-85+50 & MISC. DETAILS
45	SR-9	N 33RD ST - SURFACE RESTOR. STA 85+50-96+50 & MISC. DETAILS
46	SR-10	N 33RD ST - SURFACE RESTOR. STA 96+50-107+50 & MISC. DETAILS
47	SR-11	N 33RD ST - SURFACE RESTOR. STA 107+50-118+50 & MISC. DETAILS
48	SR-12	N 33RD ST - SURFACE RESTOR. STA 118+50-129+50 & MISC. DETAILS
49	SR-13	N 33RD ST - SURFACE RESTOR. STA 129+50-140+50 & MISC. DETAILS
50	SR-14	N 33RD ST - SURFACE RESTOR. STA 140+50-151+50 & MISC. DETAILS
51	SR-15	N 33RD ST - SURFACE RESTOR. STA 151+50-160+00 & MISC. DETAILS
TRAFFIC CONTROL		
52	TC-1	TRAFFIC CONTROL PLAN & LOCAL RUN AROUND STATION 39
53	C-1	STATION 39 - SITE PLAN & DETAILS

NOTE: SURVEY CONTROL DATA AVAILABLE UPON REQUEST.

- NOTE:
- ALL NOTES ON THE DRAWINGS BEAR THE SAME IMPORTANCE. SOME NOTES AND DIMENSIONS ARE BOLD TO AID IN READING THE DRAWING IN AREAS OF HIGH GRAPHIC DENSITY.
 - ACCURACY OF EXISTING ELEVATIONS AND DIMENSIONS IS NOT GUARANTEED. FIELD VERIFY BEFORE CONSTRUCTION.

KAL-767500LE01-LEGEND & INDEX
11/15/2021 4:22 PM - SWILLIS
11/19/2021 3:18 PM
REVISED FILES



CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

LEGEND & INDEX

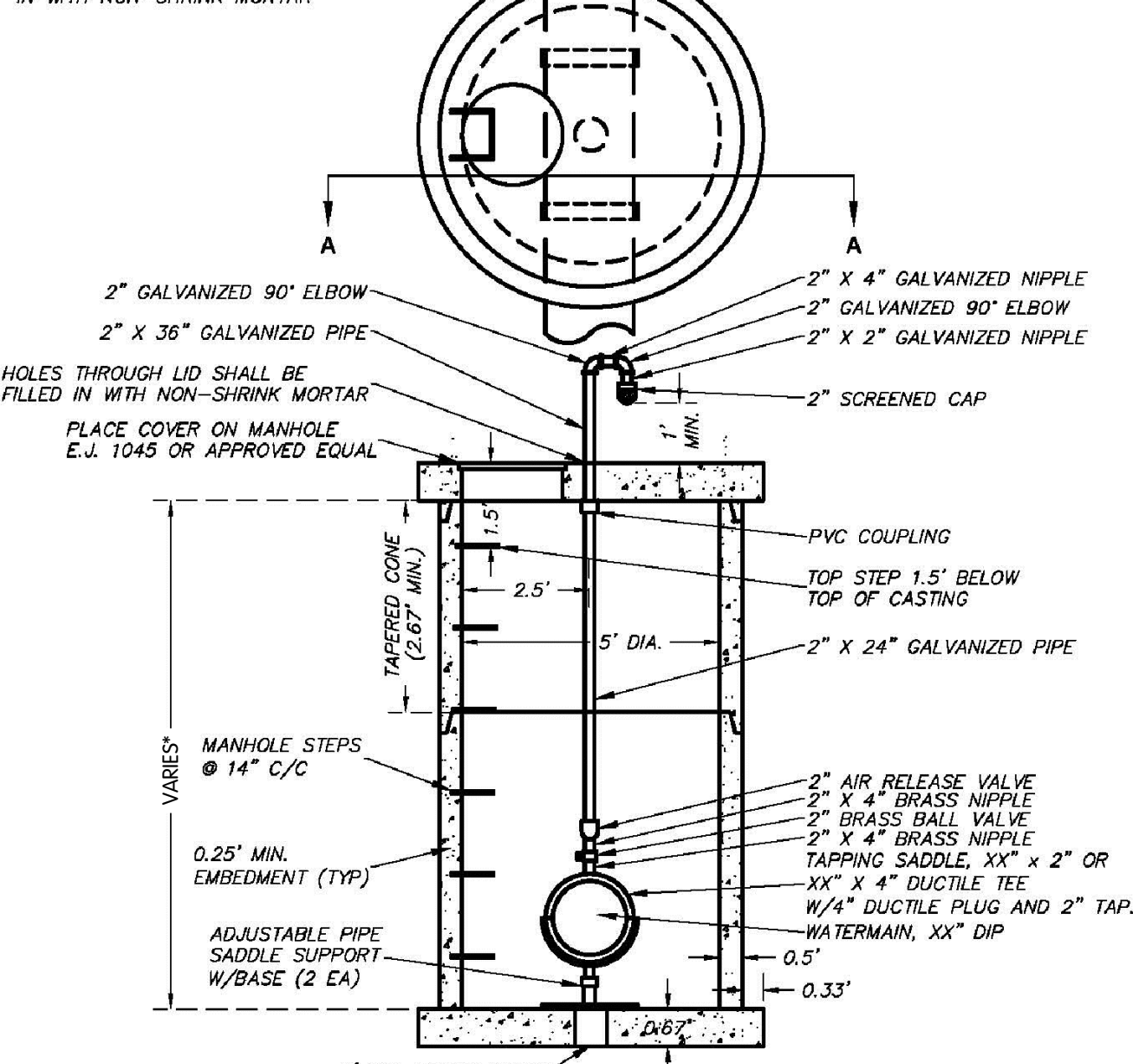
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REVISIONS AFTER ISSUED FOR BID
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JOB NO. 017-7675.001
SCALE NONE
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE
DESIGNED TLK DRAWN CJAF CHECKED AJD
STATUS: PERMIT SET
DATE: NOVEMBER, 2021
SHEET NO. G-1
1 OF 53

NOTE:
LIFT HOLES SHALL BE FILLED
IN WITH NON-SHRINK MORTAR

WA-04-A



TYPICAL 2" AIR RELEASE MANHOLE
PRECAST REINFORCED CONCRETE SHOWN (OTHER OPTIONS INCLUDE CONCRETE BLOCK, BRICK OR CAST IN PLACE WALL SECTIONS)

SCHEDULE OF FITTINGS

ITEM DESCRIPTION	QUANTITY	ITEM DESCRIPTION	QUANTITY
AIR RELEASE VALVE, 2"	1	TAPPING SADDLE, XX" X 2"	1
GALVANIZED PIPE, 2" X 60"	1	BRASS BALL VALVE, 2"	1
GALVANIZED NIPPLE, 2" X 4"	1	BRASS NIPPLE, 2" X 4"	2
GALVANIZED NIPPLE, 2" X 2"	1		
GALVANIZED 90° ELBOW, 2"	2		
PIPE SUPPORT BASE	2		

CITY OF KALAMAZOO
Department Of Public Services

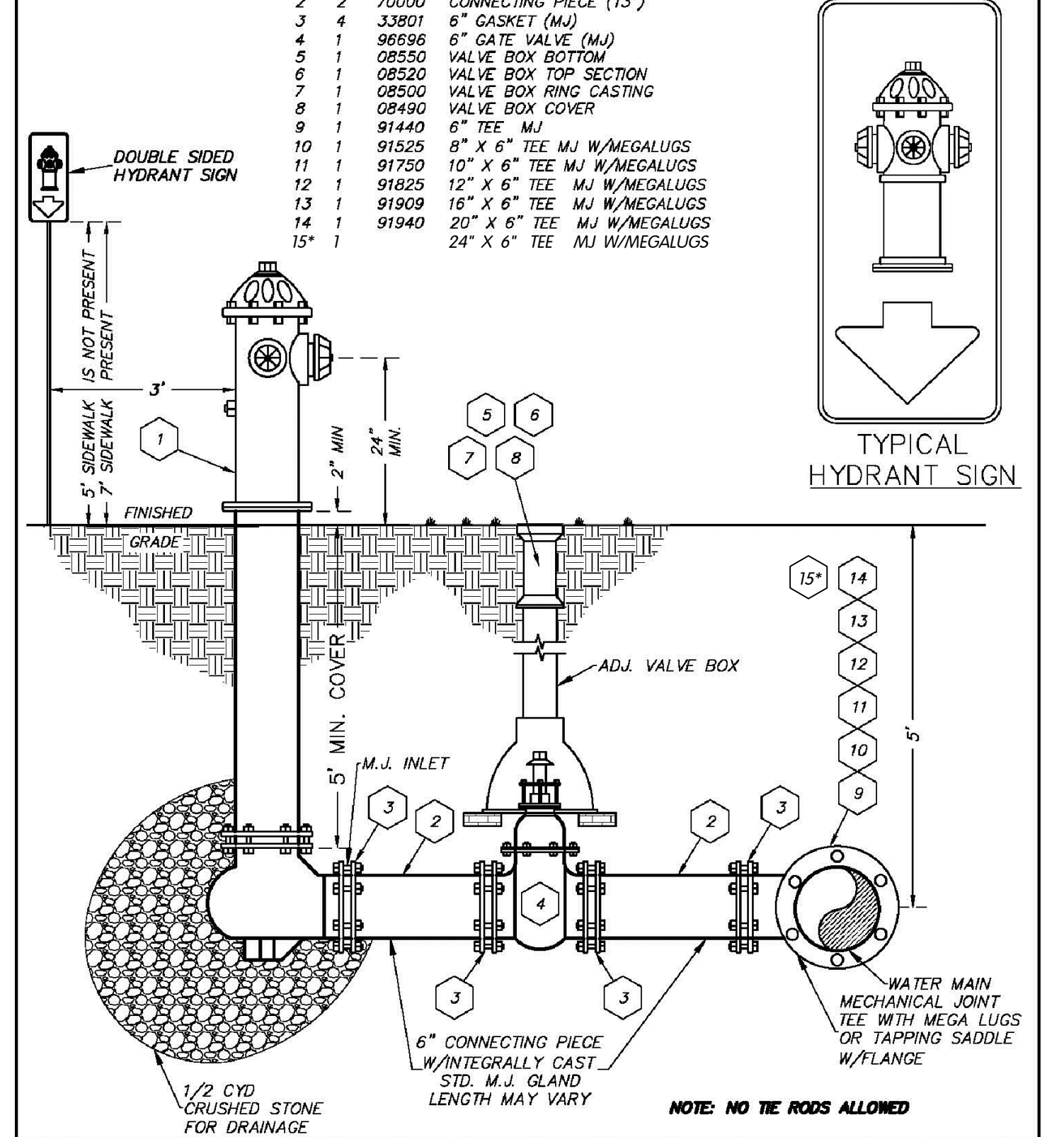
AIR RELEASE MANHOLE

RECOMMENDED BY: _____ DATE: _____
 APPROVED BY: _____
 APPROVED BY: _____
 ACCEPTED BY: _____

ITEM QTY. # DESCRIPTION

1	1	38887	6" HYDRANT W/CARROLL DRAIN
2	2	70000	CONNECTING PIECE (13")
3	4	33801	6" GASKET (MJ)
4	1	96696	6" GATE VALVE (MJ)
5	1	08550	VALVE BOX BOTTOM
6	1	08520	VALVE BOX TOP SECTION
7	1	08500	VALVE BOX RING CASTING
8	1	08490	VALVE BOX COVER
9	1	91440	6" TEE MJ
10	1	91525	8" X 6" TEE MJ W/MEGALUGS
11	1	91750	10" X 6" TEE MJ W/MEGALUGS
12	1	91825	12" X 6" TEE MJ W/MEGALUGS
13	1	91909	16" X 6" TEE MJ W/MEGALUGS
14	1	91940	20" X 6" TEE MJ W/MEGALUGS
15	1		24" X 6" TEE MJ W/MEGALUGS

WA-1-D



TYPICAL FIRE HYDRANT & GATE VALVE DETAIL

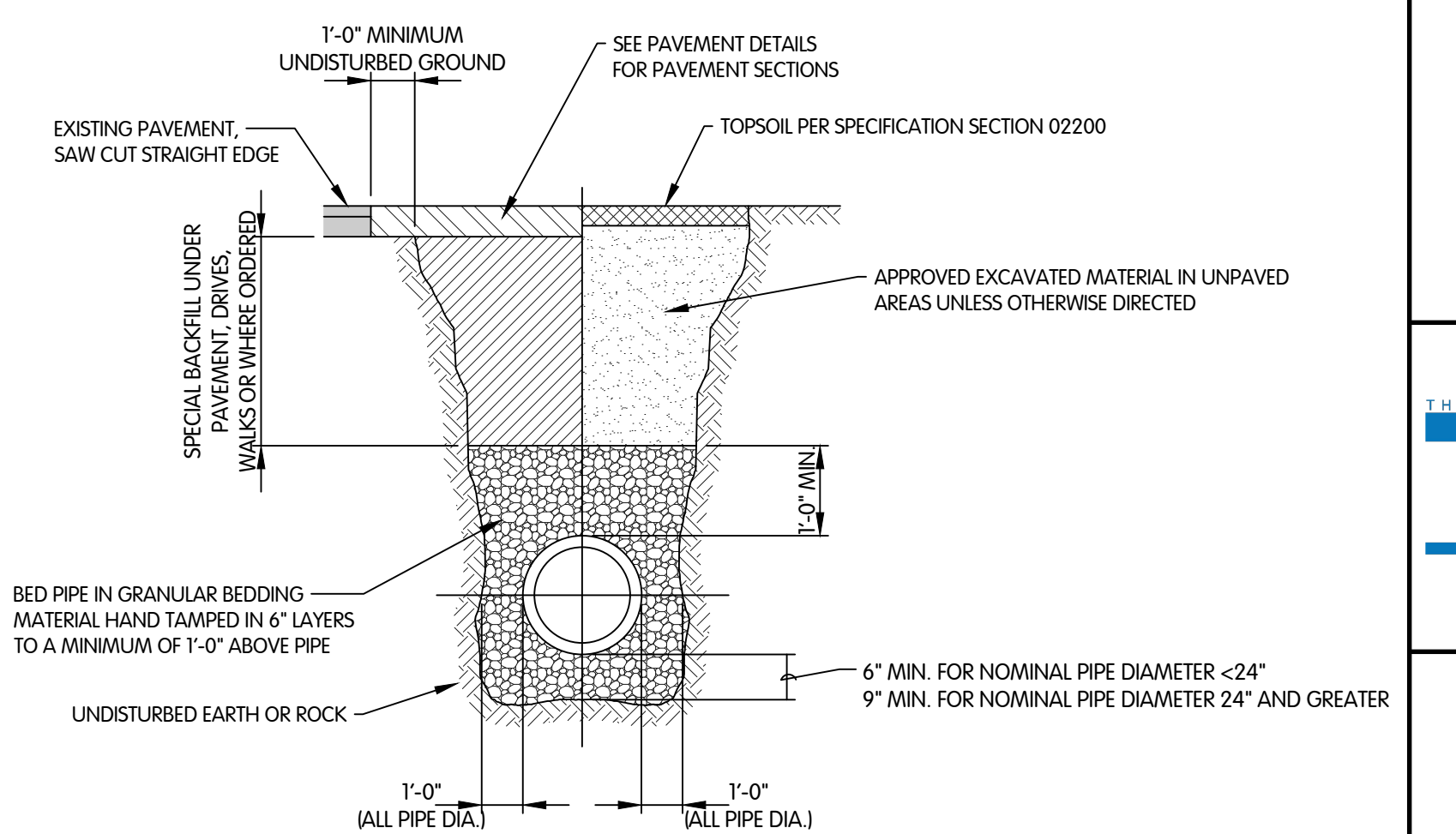
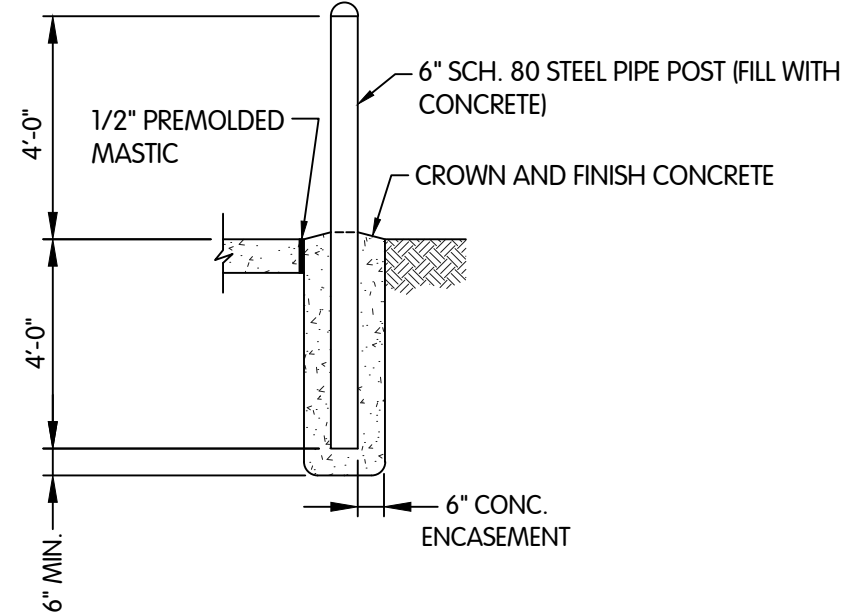
CITY OF KALAMAZOO
Department Of Public Services

TYPICAL FIRE HYDRANT & GATE VALVE DETAIL

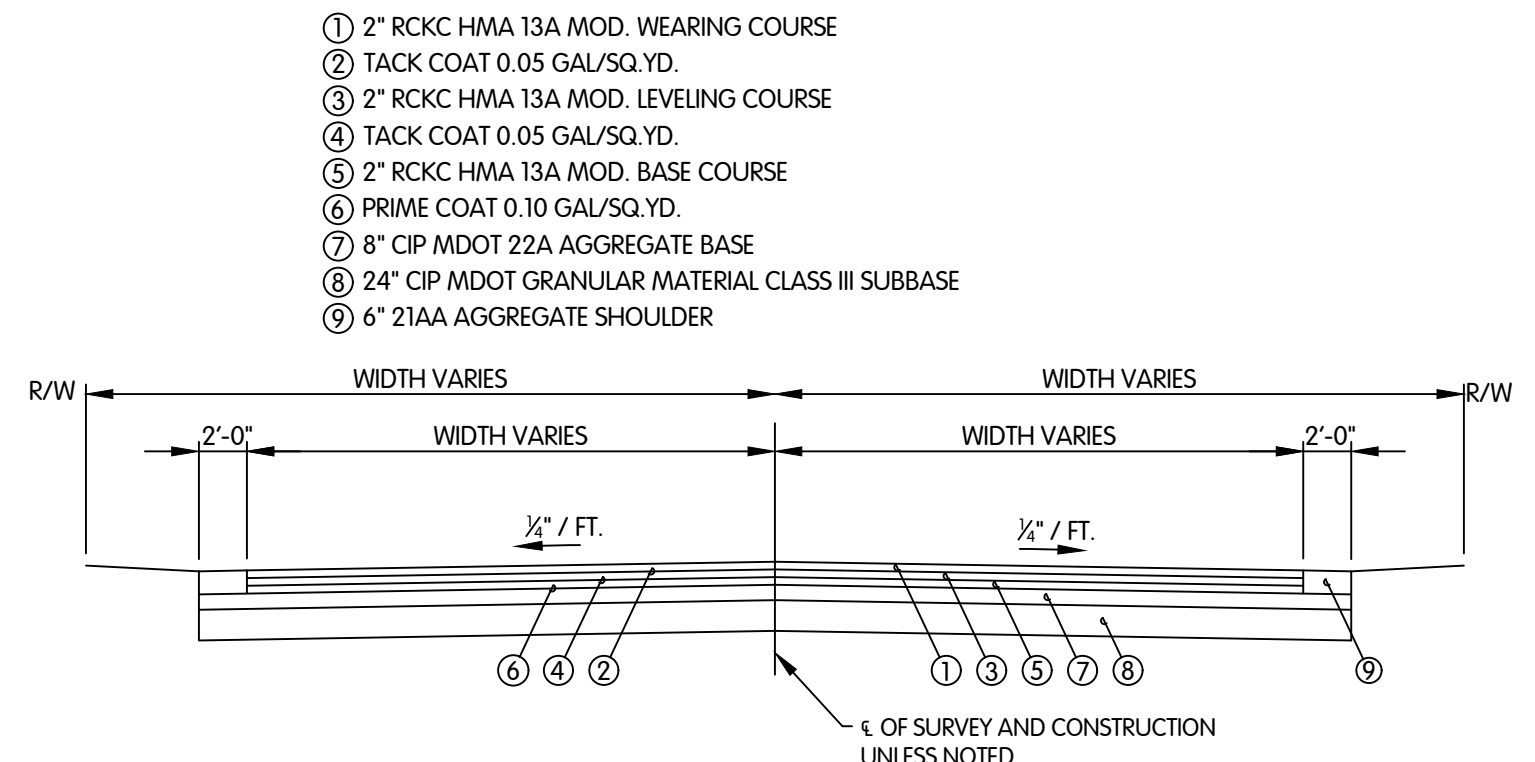
RECOMMENDED BY: _____ DATE: _____
 APPROVED BY: _____
 APPROVED BY: _____
 ACCEPTED BY: _____

- NOTE
- BOLLARDS SHALL BE PAINTED WITH A PRIME COAT (GRAY ORGANIC ZINC-RICH EPOXY PRIMER) AND TWO TOP COATS OF SAFETY YELLOW LATEX.
 - EXPOSED SURFACES SHALL BE CLEAN OF ALL GREASE, OIL, MILL SCALE, DIRT, CONCRETE, RUST, OLD PAINT OR ANY OTHER CONTAMINANTS.
 - PRIME COAT SHALL BE APPLIED AT 3.0 - 4.0 MILS DRY FILM THICKNESS.
 - TWO TOP COATS SHALL BE APPLIED EACH AT 1.5 MILS DRY FILM THICKNESS. A MINIMUM OF 24 HOURS SHALL BE ALLOWED BETWEEN COATS FOR THE PRECEDING COAT TO DRY COMPLETELY.
 - APPLICATION SHALL BE BY BRUSH OR SPRAYING. ADJACENT SURFACES SHALL BE PROTECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE BY OVERSPRAY AND AIRBORNE PAINT PARTICLES.
 - PAINT SHALL NOT BE APPLIED WHEN THE AIR TEMPERATURE IN THE SHADE IS BELOW 40°F OR WHEN THE SURFACE IS WET. PAINT SHALL NOT BE APPLIED WHEN INCLEMENT WEATHER CONDITIONS ARE PENDING. CONTRACTOR SHALL REPAINT IF WEATHER AFFECTS DRYING.

GUARDPOST/BOLLARD DETAIL
NTS



TRENCH DETAIL FOR RIGID PIPE (DIP)
NTS

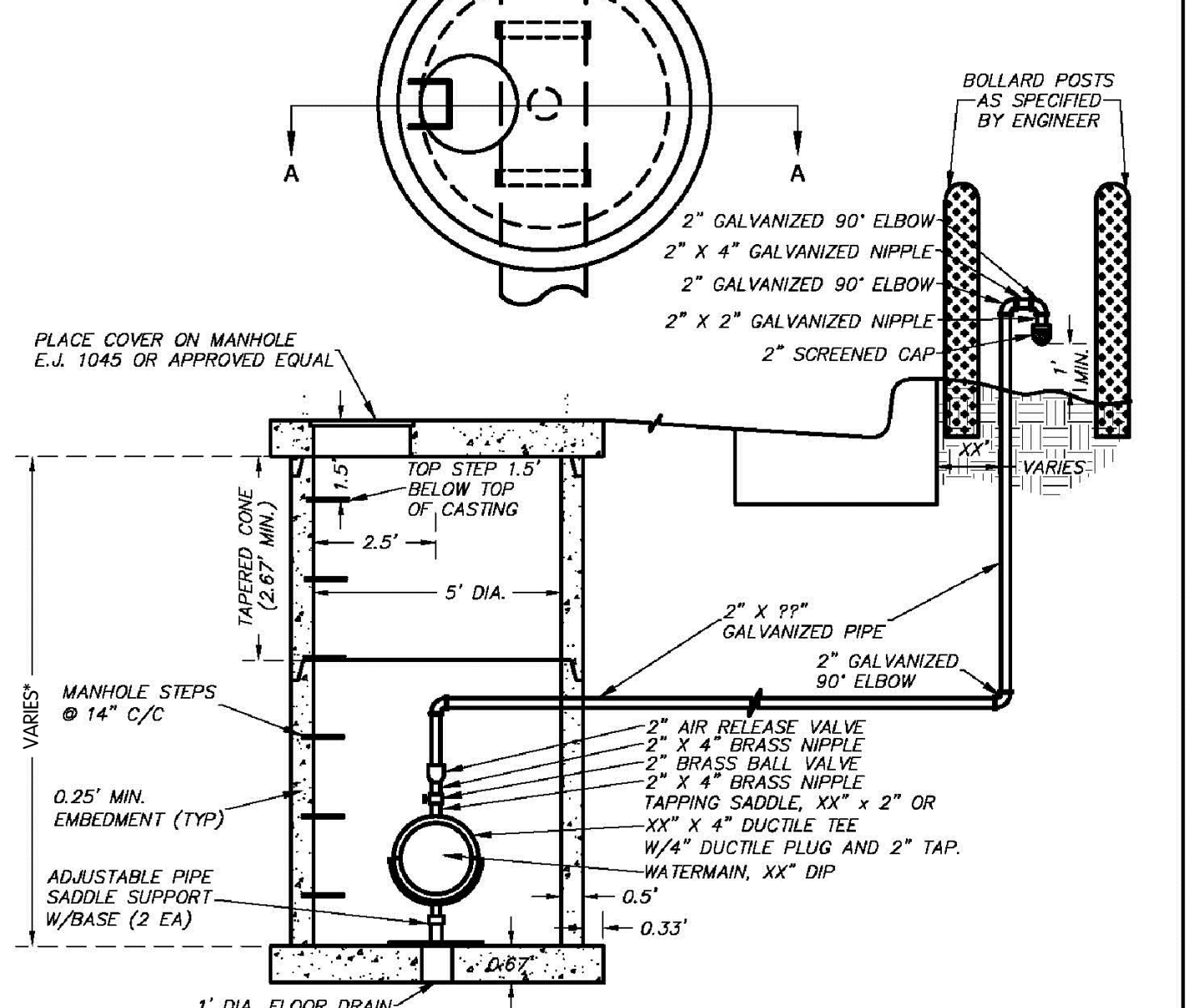


TYPICAL PAVEMENT SECTION
NTS

- 2" RCKC HMA 13A MOD. WEARING COURSE
- TACK COAT 0.05 GAL/SQ.YD.
- 2" RCKC HMA 13A MOD. LEVELING COURSE
- TACK COAT 0.05 GAL/SQ.YD.
- 2" RCKC HMA 13A MOD. BASE COURSE
- PRIME COAT 0.10 GAL/SQ.YD.
- 8" CIP MDOT 22A AGGREGATE BASE
- 24" CIP MDOT GRANULAR MATERIAL CLASS III SUBBASE
- 6" 21AA AGGREGATE SHOULDER

NOTE:
LIFT HOLES SHALL BE FILLED
IN WITH NON-SHRINK MORTAR

WA-05-B



TYPICAL 2" AIR RELEASE MANHOLE
PRECAST REINFORCED CONCRETE SHOWN (OTHER OPTIONS INCLUDE CONCRETE BLOCK, BRICK OR CAST IN PLACE WALL SECTIONS)

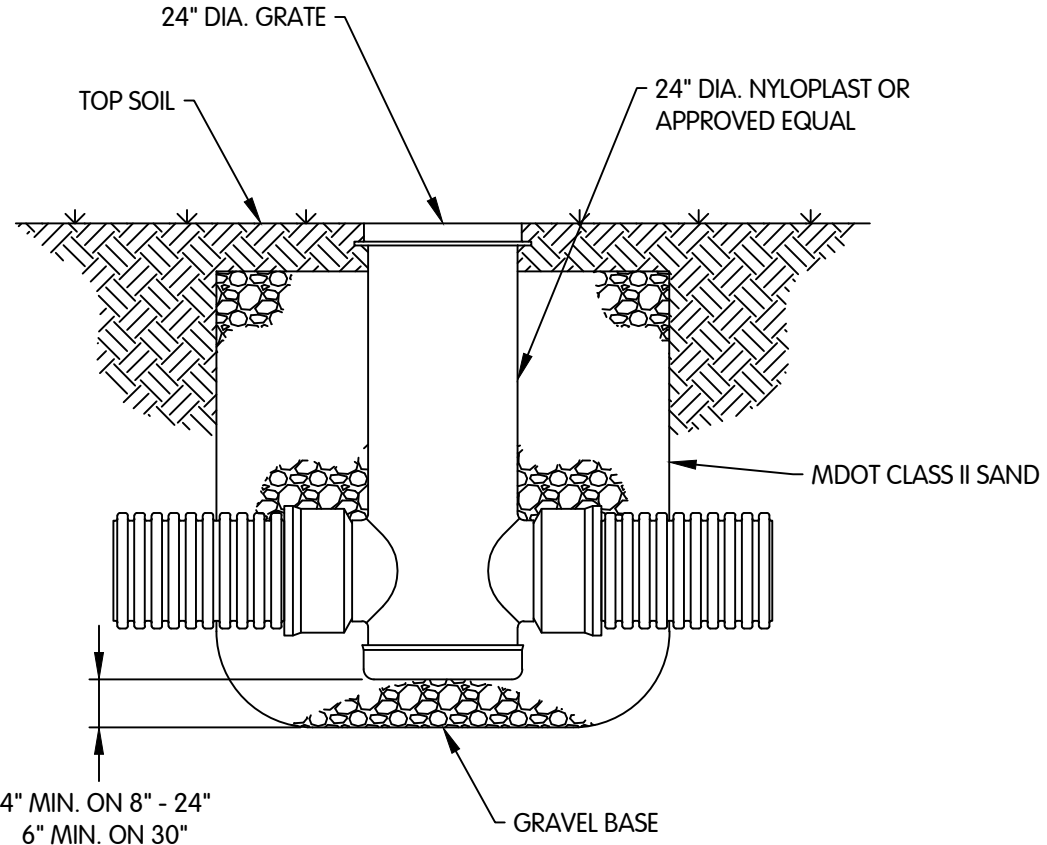
SCHEDULE OF FITTINGS

ITEM DESCRIPTION	QUANTITY	ITEM DESCRIPTION	QUANTITY
AIR RELEASE VALVE, 2"	1	TAPPING SADDLE, XX" X 2"	1
GALVANIZED PIPE, 2" X 60"	1	BRASS BALL VALVE, 2"	1
GALVANIZED NIPPLE, 2" X 4"	1	BRASS NIPPLE, 2" X 4"	2
GALVANIZED NIPPLE, 2" X 2"	1		
GALVANIZED 90° ELBOW, 2"	2		
PIPE SUPPORT BASE	2		

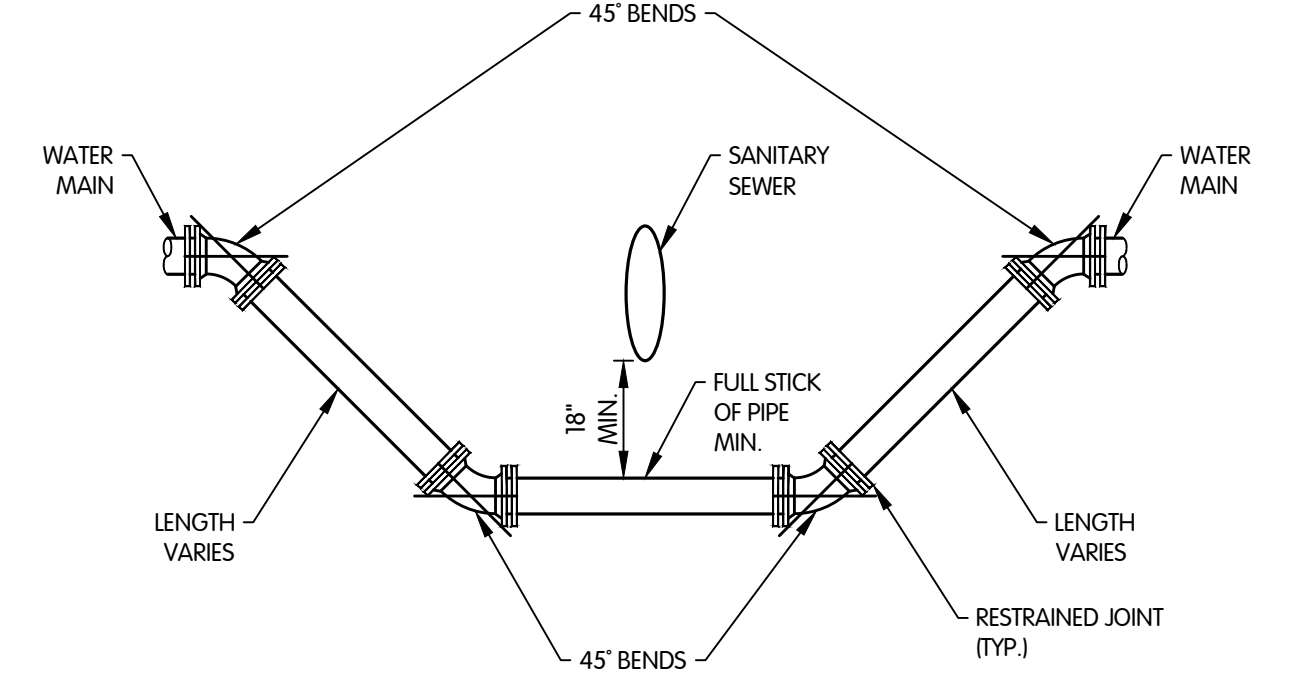
CITY OF KALAMAZOO
Department Of Public Services

AIR RELEASE MANHOLE IN ROADWAY

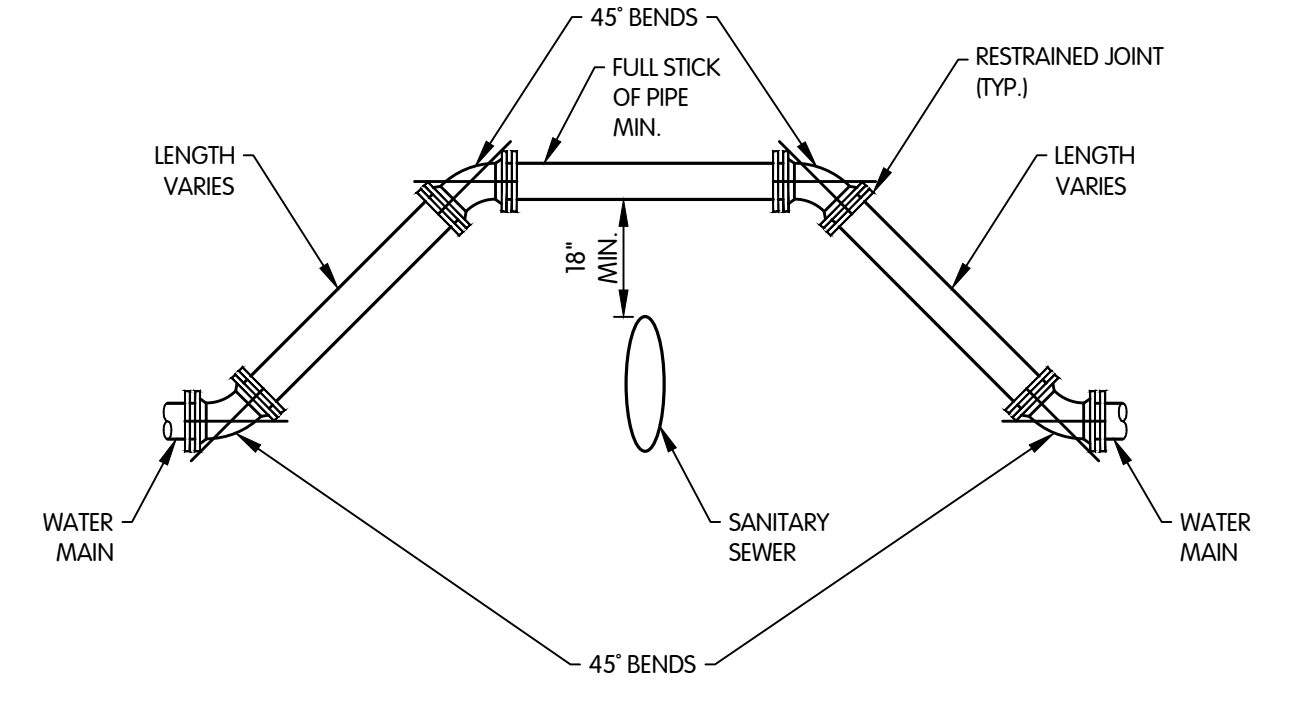
RECOMMENDED BY: _____ DATE: _____
 APPROVED BY: _____
 APPROVED BY: _____
 ACCEPTED BY: _____



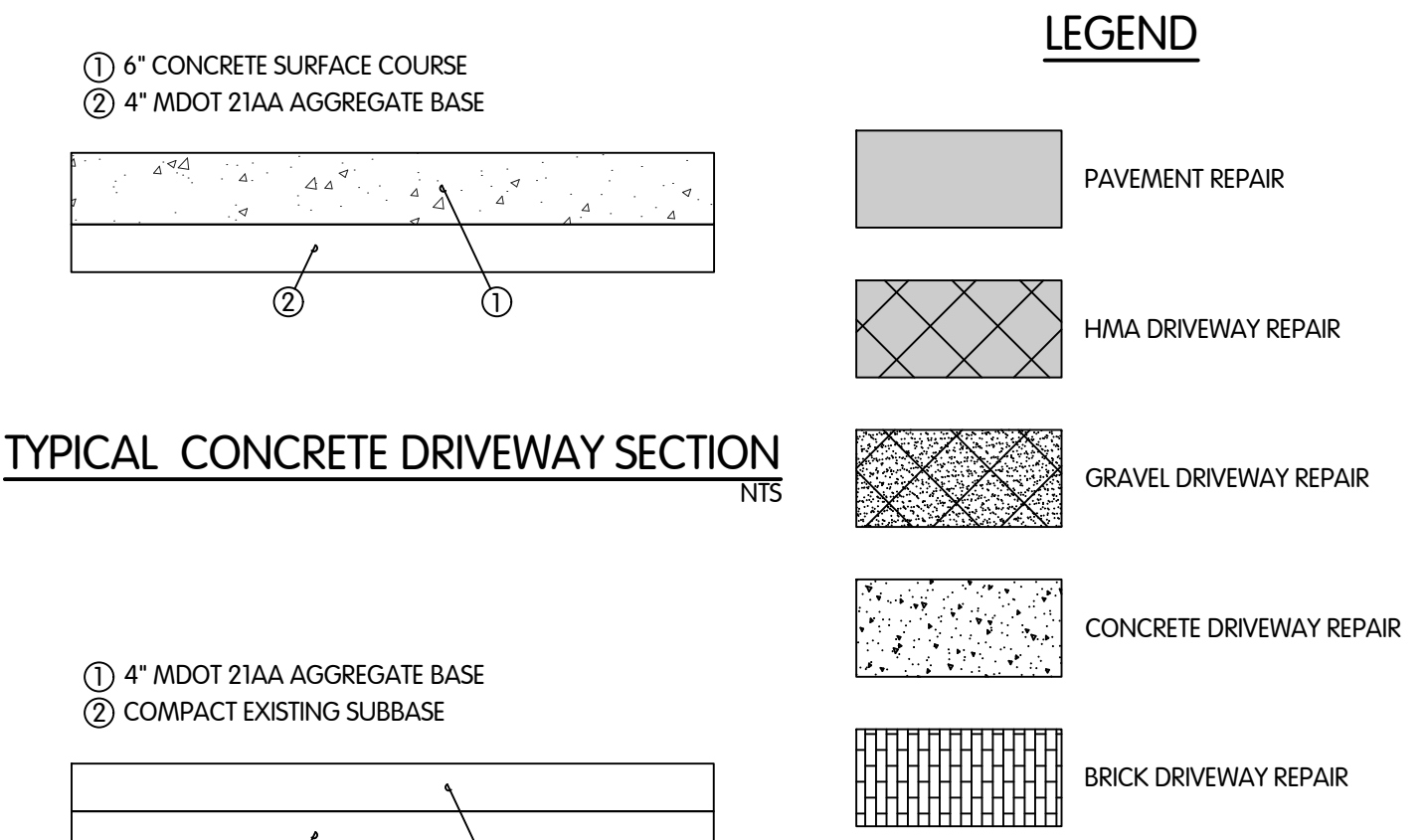
CATCH BASIN DETAIL
NTS



MINIMUM SEPARATION DETAIL - UNDER
NTS



MINIMUM SEPARATION DETAIL - OVER
NTS



TYPICAL CONCRETE DRIVEWAY SECTION
NTS

TYPICAL GRAVEL DRIVEWAY SECTION
NTS

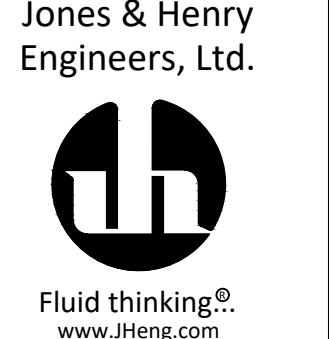
TYPICAL HMA DRIVEWAY SECTION
NTS

- 4" MDOT 21AA AGGREGATE BASE
- COMPACT EXISTING SUBBASE

- 2" RCKC HMA 13A MOD. WEARING COURSE
- TACK COAT 0.05 GAL/SQ.YD.
- 2" RCKC HMA 13A MOD. LEVELING COURSE
- PRIME COAT 0.10 GAL/SQ.YD.
- 4" MDOT 21AA AGGREGATE BASE



WATER LINE, SURFACE RESTORATION, & MISCELLANEOUS DETAILS
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



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JOB NO. 017-7675.001
SCALE NONE
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE
DESIGNED TLK DRAWN CJAF CHECKED AJD
STATUS PERMIT SET
DATE NOVEMBER, 2021
SHEET NO. G-2
2 OF 53

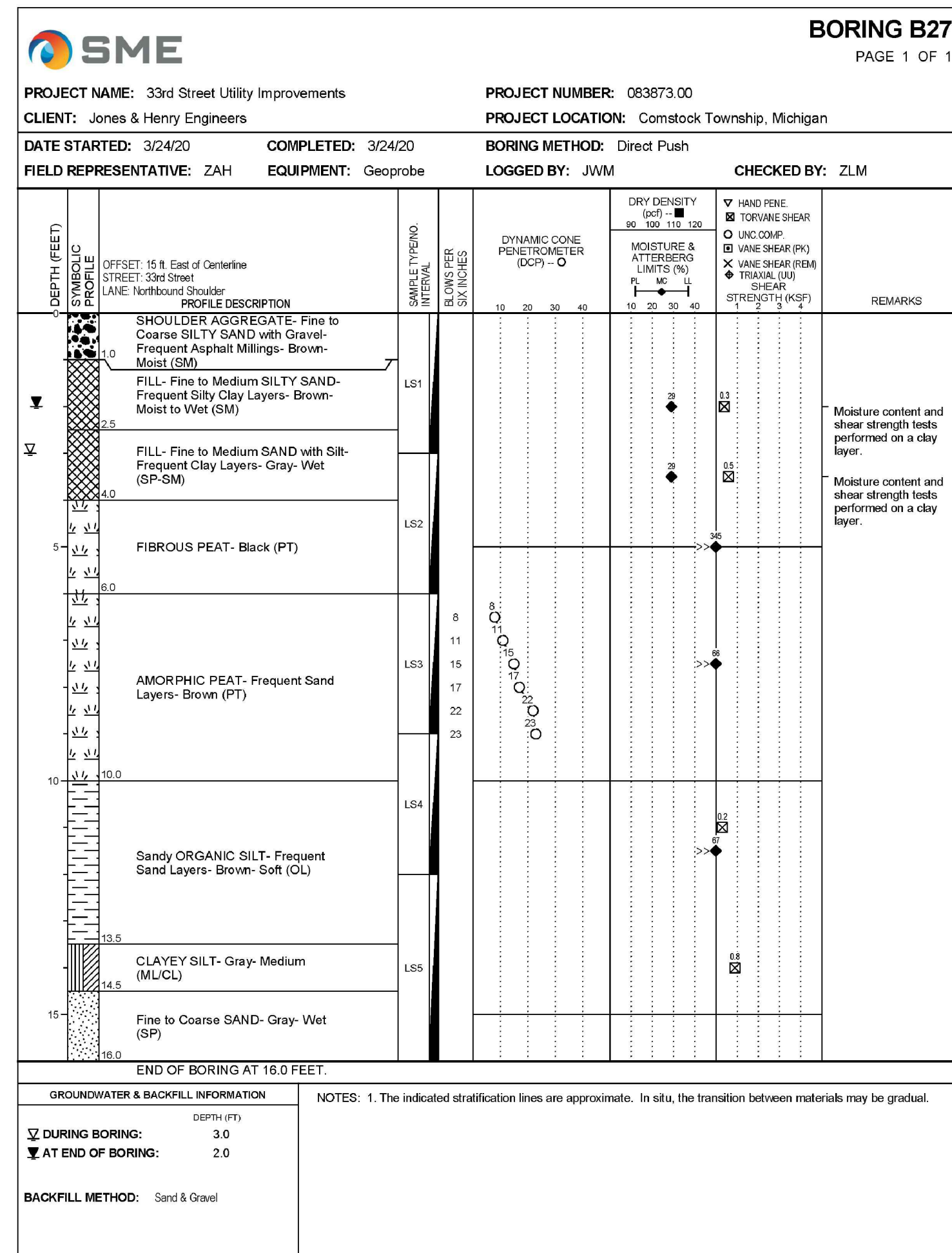
KAL-7675001-WATER LINE SURFACE RESTORATION & MISCELLANEOUS DETAILS
11/19/2021 3:16 PM - SWILLIS
11/19/2021 3:18 PM

33rd STREET UTILITY IMPROVEMENTS – MUCK PROBE RESULTS
 SIME Project No. 083873.00
 DATE: May 15, 2020
 Performed By: JM/KG

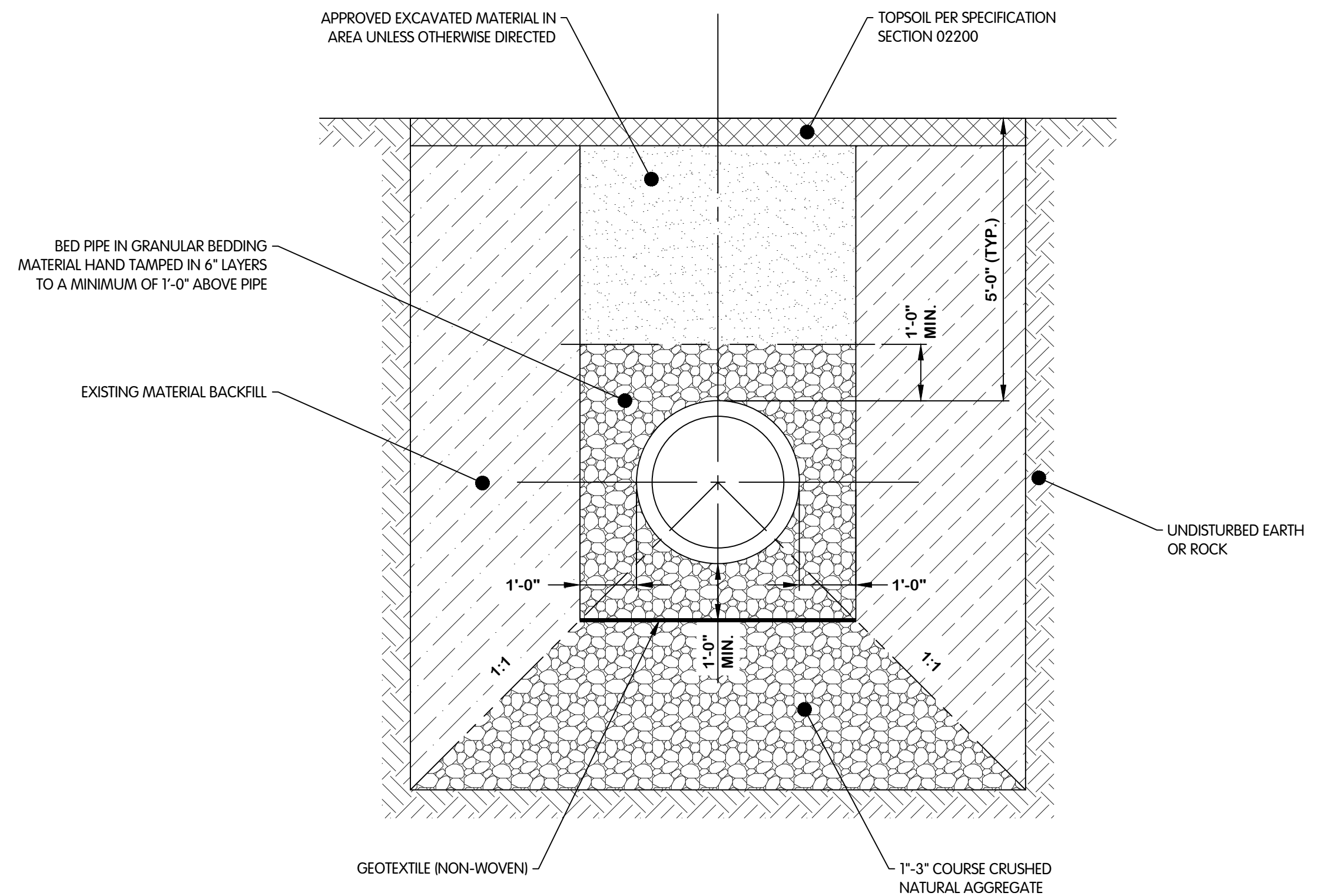
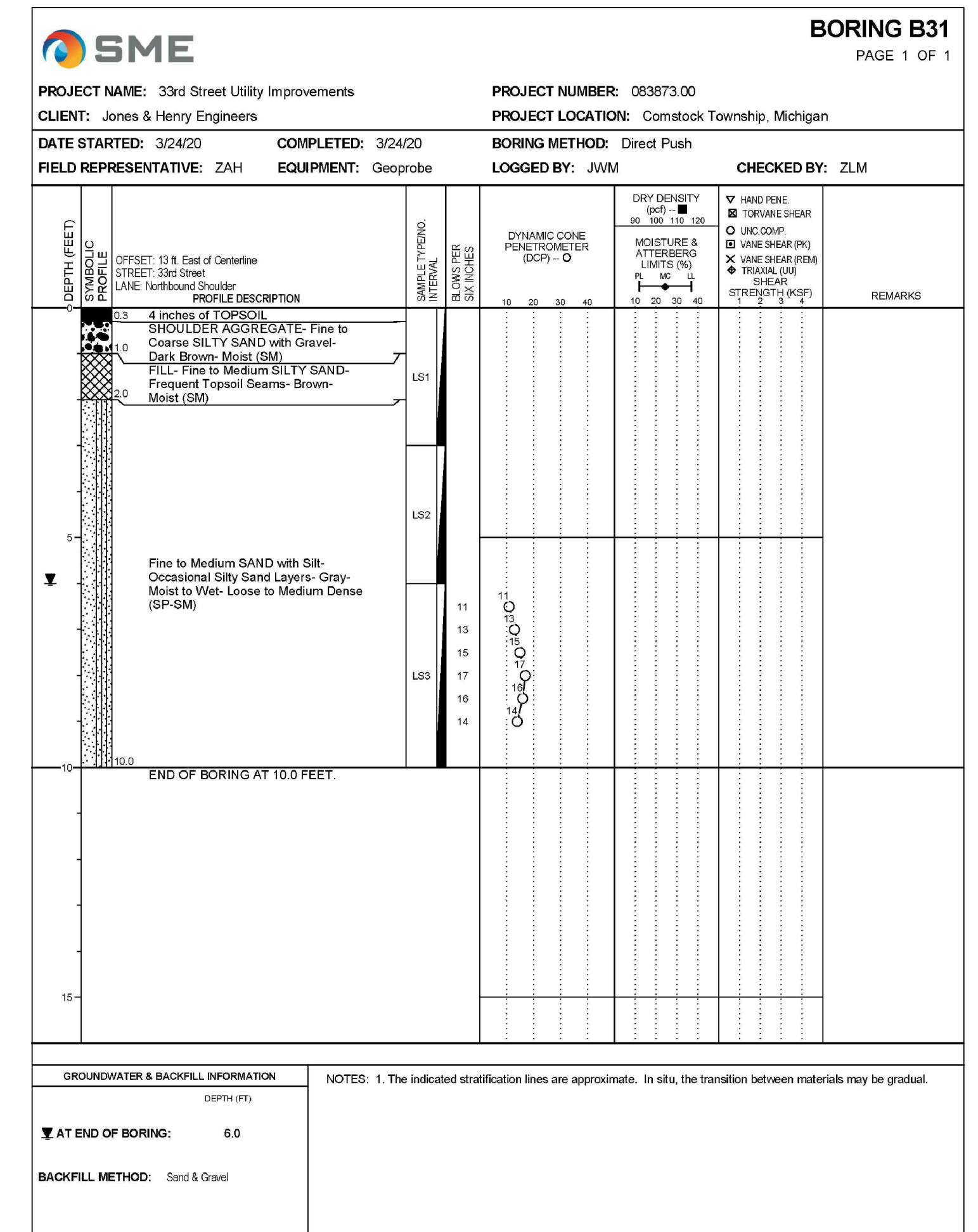
MUCK PROBE	MUCK PROBE LOCATION		REFUSAL DEPTH BELOW GROUND SURFACE
	STATION	OFFSET EAST OF EDGE OF METAL	
MP 1	80 Feet South of Culvert	8 Feet	2 Feet
MP 2	80 Feet South of Culvert	7.5 Feet	4 Feet
MP 3	40 Feet South of Culvert	6.5 Feet	6 Feet
MP 4	20 Feet South of Culvert	8.5 Feet	8 Feet
MP 5	At Culvert	8.5 Feet	12 Feet
MP 6	20 Feet North of Culvert	8 Feet	14 Feet
MP 7	40 Feet North of Culvert	8 Feet	12 Feet
MP 8	60 Feet North of Culvert	7 Feet	8 Feet
MP 9	80 Feet North of Culvert	7.5 Feet	9 Feet
MP 10	100 Feet North of Culvert	8 Feet	7 Feet
MP 11	120 Feet North of Culvert	8 Feet	4 Feet
MP 12	140 Feet North of Culvert	8 Feet	3 Feet

NOTES:

- Muck probes performed along east side of N. 33rd Street.
- Muck probe stations referenced from an existing culvert located approximately 1,420 feet north of Daylily Lane.
- Muck probe refusal depths referenced from existing ground surface elevation.
- Ground surface at the muck probe locations ranged from about 1 to 3 feet below the adjacent pavement surface.
- MP5 performed adjacent to existing culvert.
- MP7 performed adjacent to Boring B27.



NOTE: SEE SPECS FOR COMPLETE GEOTECHNICAL REPORT.



WETLAND EMBANKMENT DETAIL FOR RIGID PIPE (DIP)

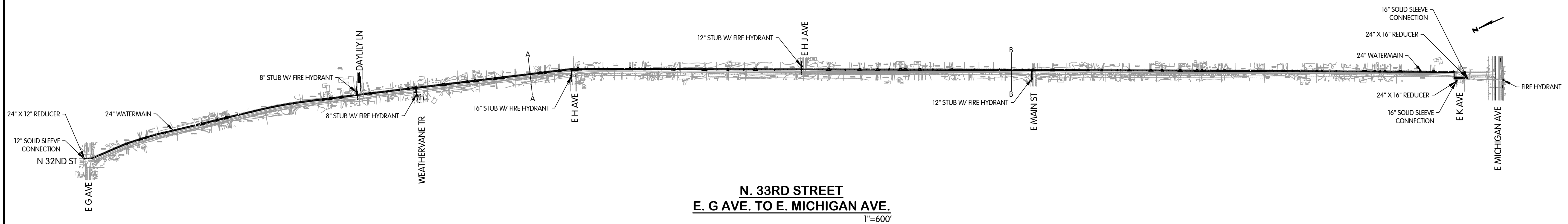


WETLAND DETAILS
& SOIL BORINGS

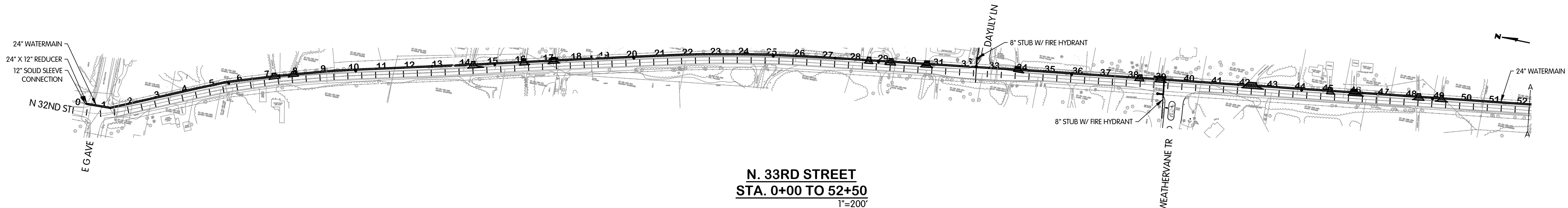
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

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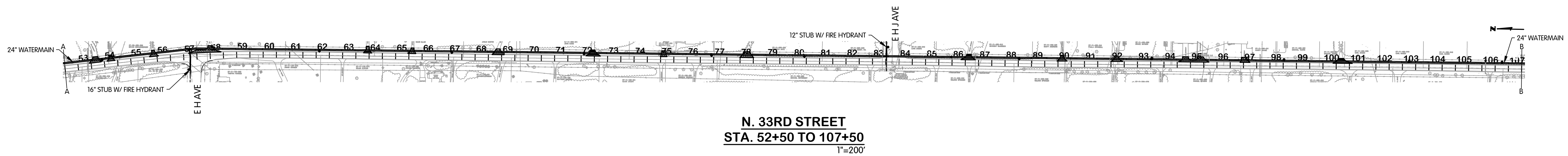
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DESIGNED	TLK
DRAWN	CJAF
CHECKED	AJD
STATUS	PERMIT SET
DATE	NOVEMBER, 2021
SHEET NO.	G-3



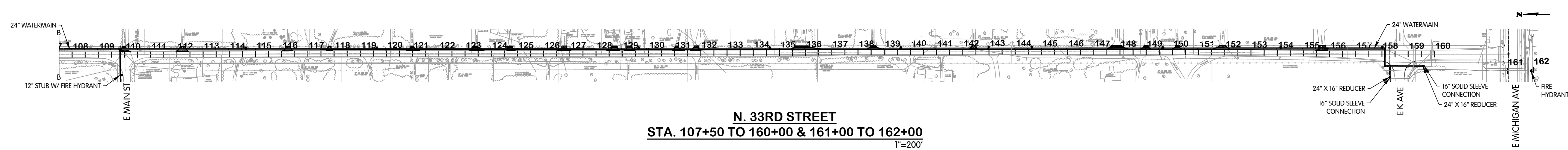
**N. 33RD STREET
E. G AVE. TO E. MICHIGAN AVE.**
1"=600'



**N. 33RD STREET
STA. 0+00 TO 52+50**
1"=200'



**N. 33RD STREET
STA. 52+50 TO 107+50**
1"=200'



**N. 33RD STREET
STA. 107+50 TO 160+00 & 161+00 TO 162+00**
1"=200'

KAL-7675001-01-SITE LOCATION MAP & SITE ALIGNMENT PLAN
11/2/2021 5:07 PM - SWILLIS
11/19/2021 3:19 PM



CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN
SITE LOCATION MAP
& SITE ALIGNMENT PLAN

REVISIONS AFTER ISSUED FOR BID
NO. DATE



JOB NO.	017-7675.001
SCALE	NONE
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE	
DESIGNED	TLK
DRAWN	CJAF
CHECKED	AJD
STATUS	PERMIT SET
DATE	NOVEMBER, 2021
SHEET NO.	G-4
	4 OF 53

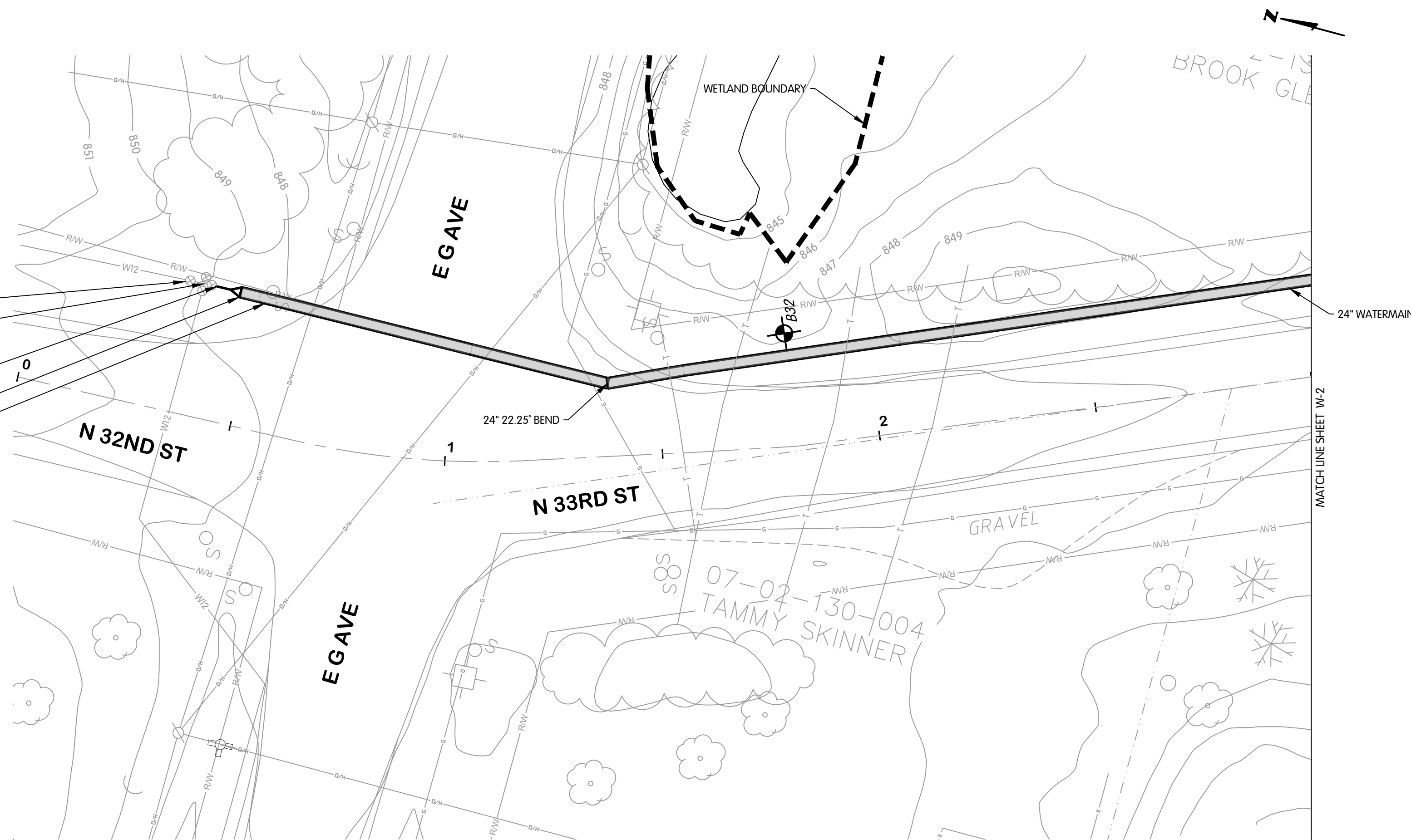


N 33RD STREET - WATER
PLAN & PROFILE
STA. 0+00 TO 3+00

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

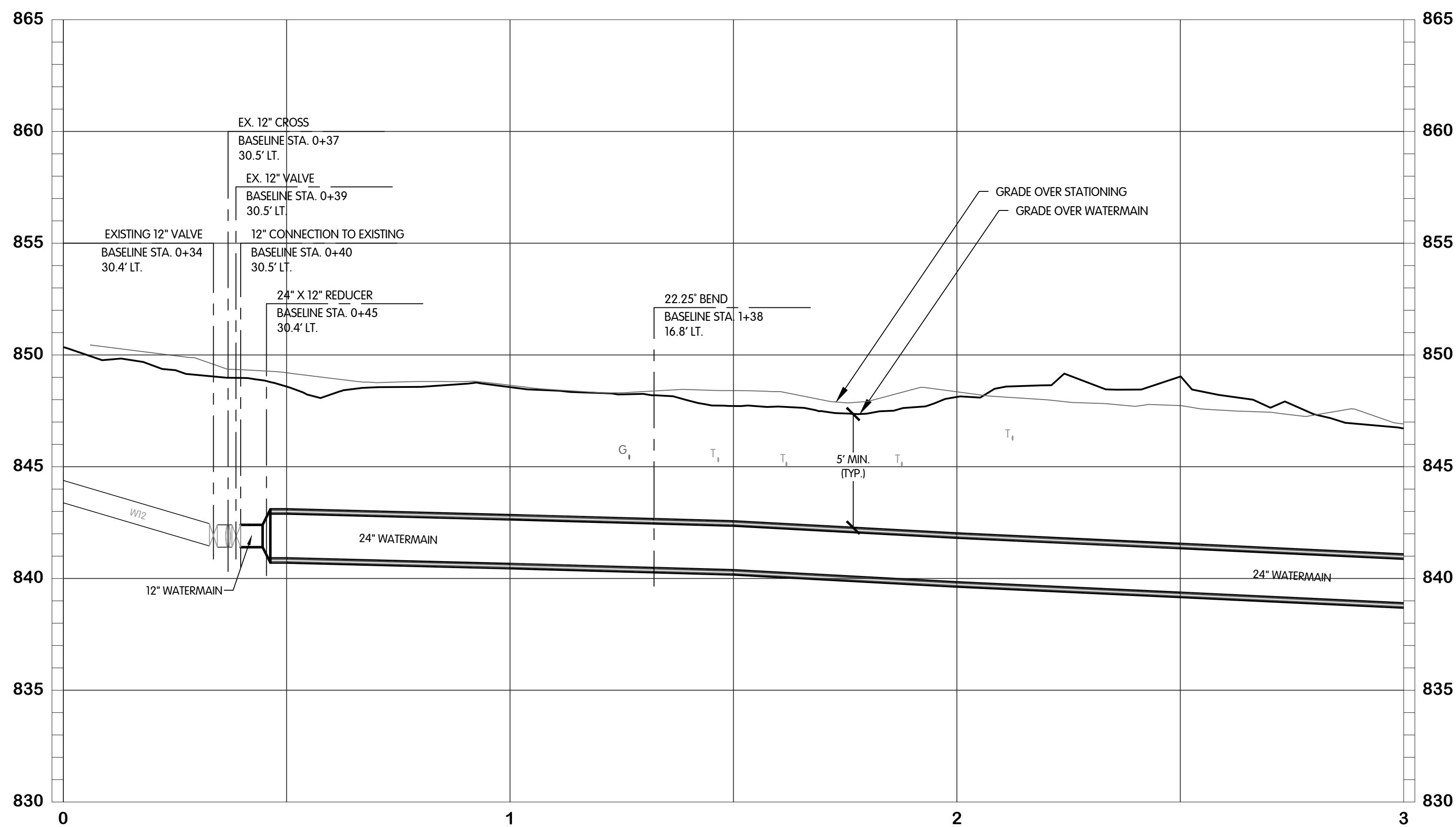
NOTE: TIE-IN AT G AVE SHALL BE THE SOURCE WATER FOR FILLING AND FLUSHING THE NEW WATERMAIN.

- EXISTING 12" VALVE (4 TYP.)
- EXISTING 12" CROSS
- 12" CONNECTION TO EXISTING
- 24" X 12" REDUCER
- 24" WATERMAIN



N 33RD STREET
STA. 0+00 TO 3+00

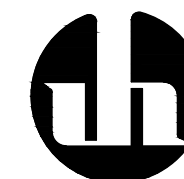
Description	Estimated Quantity	Unit
24" 22.25' Bend	1	EA
12" Connection	1	EA
24"x12" Reducer	1	EA
24" Watermain	255	LF



KAL-7675001W01-N 33RD ST - WATER STA. 0+00-3+00
11/2/2021 4:50 PM - SWILLIS
11/19/2021 3:19 PM

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JOB NO. 017-7675.001

SCALE 1" = 20'H, 1" = 4'V

THIS LINE SCALES IF WHEN
PLOTTED TO NOTED SCALE

DESIGNED TLK	DRAWN CJAF	CHECKED AJD
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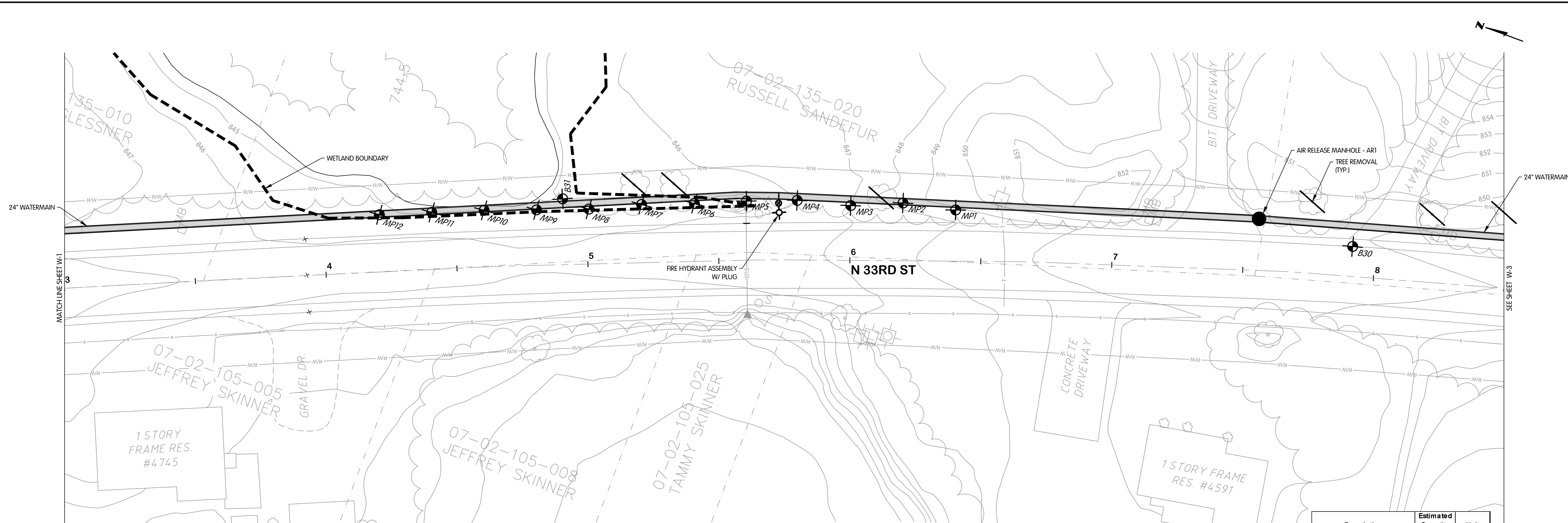
STATUS: PERMIT SET

DATE: NOVEMBER, 2021

SHEET NO.

W-1

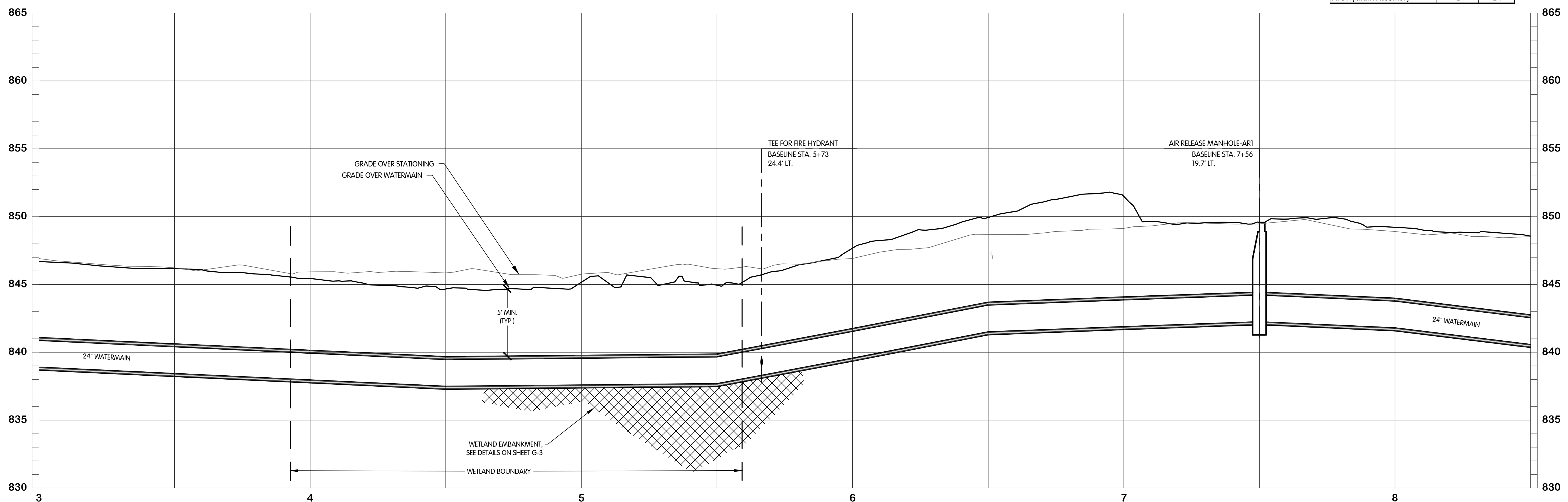
5 OF 53



**N 33RD STREET
STA. 3+00 TO 8+50**

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	13	EA
Tree, Rem, 19 inch to 36 inch	6	EA
Tree, Rem, 36 inch and larger	2	EA
Air Release Manhole	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA



KAL-7675001W02-N 33RD ST - WATER STA. 3+00-8+50
9/1/2021 12:52 PM - CERRELL
11/19/2021 3:19 PM



**N 33RD STREET - WATER
PLAN & PROFILE
STA. 3+00 TO 8+50**

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

NO. 1 2 3 4 5 6 7 8 9 10 11 12
DATE
REVISIONS AFTER ISSUED FOR BID

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JOB NO. 017-7675.001
SCALE 1" = 20'H, 1" = 4'V
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE

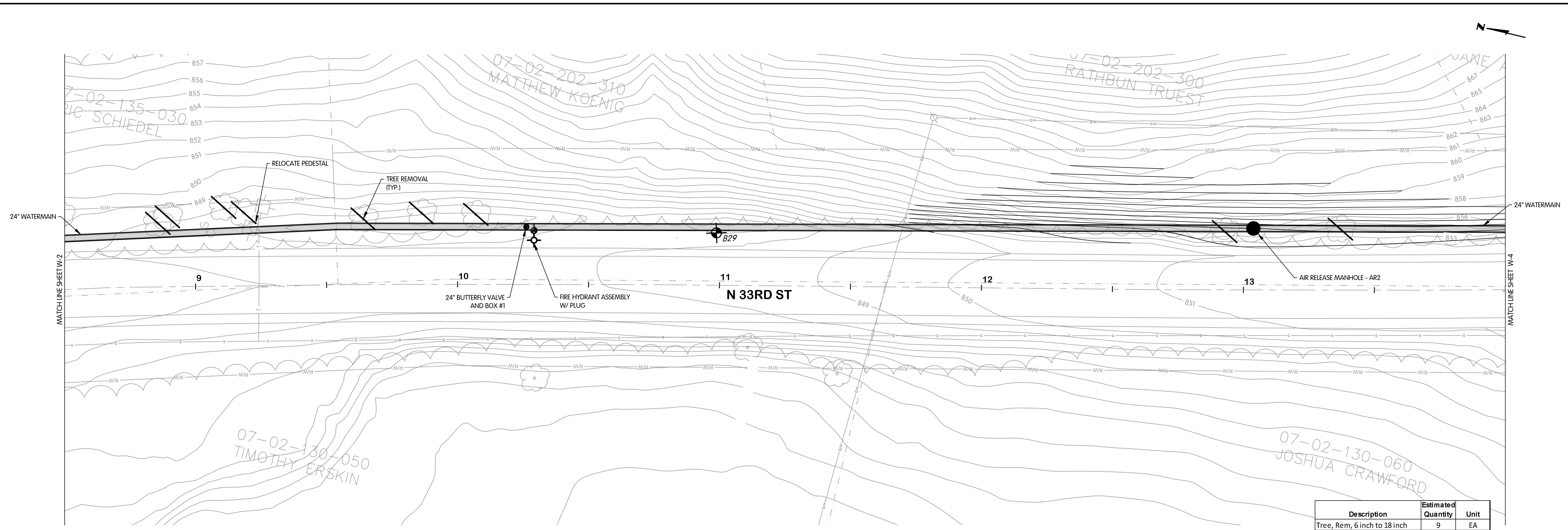
DESIGNED	DRAWN	CHECKED
TLK	CJAF	AJD

STATUS: PERMIT SET
DATE: NOVEMBER, 2021
SHEET NO. W-2
6 OF 53



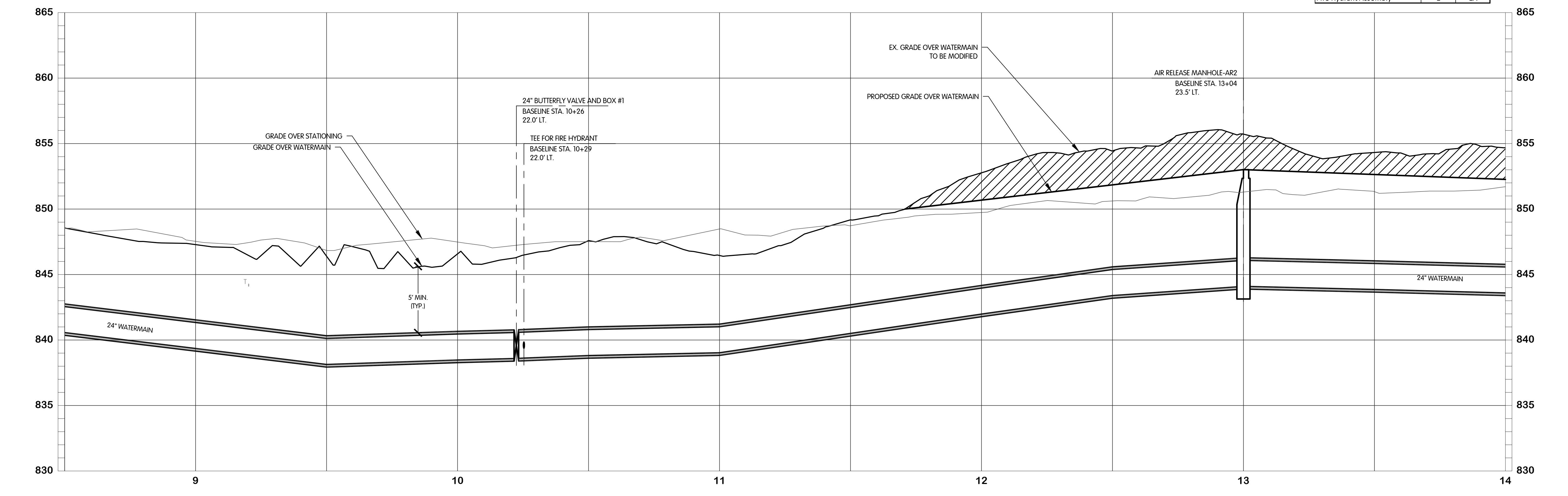
N 33RD STREET - TRANSMISSION MAIN
PLAN & PROFILE
8+50 TO 14+00

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	9	EA
Tree, Rem, 19 inch to 36 inch	8	EA
Tree, Rem, 36 inch and larger	1	EA
Air Release Manhole	1	EA
24" Butterfly Valve	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.



KAL-767500-W3-N 33RD ST - WATER STA 8+50-14+00
9/1/2021 12:53 PM - CERRELL
11/19/2021 3:19 PM

REVISIONS AFTER ISSUED FOR BID
NO. 1
DATE

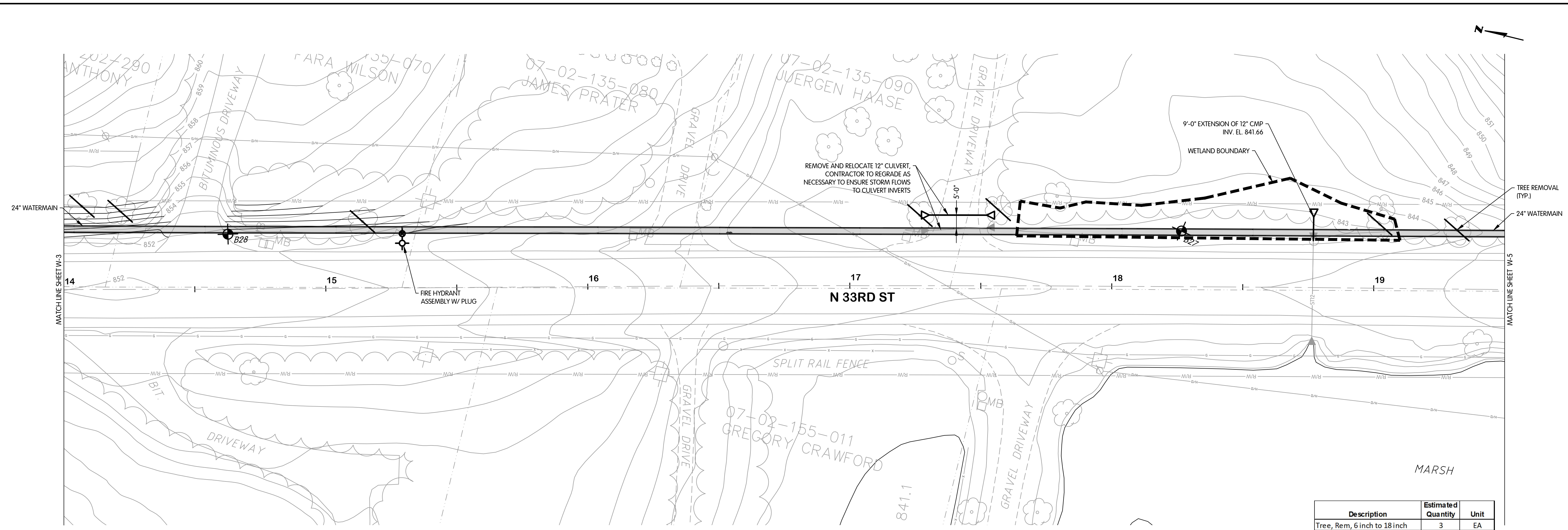
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JOB NO. 017-7675.001
SCALE 1" = 20'H, 1" = 4'V
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE
DESIGNED TLK DRAWN CJAF CHECKED AJD
STATUS PERMIT SET
DATE NOVEMBER, 2021
SHEET NO. W-3
7 OF 53



N 33RD STREET - WATER
PLAN & PROFILE
14+00 TO 19+50

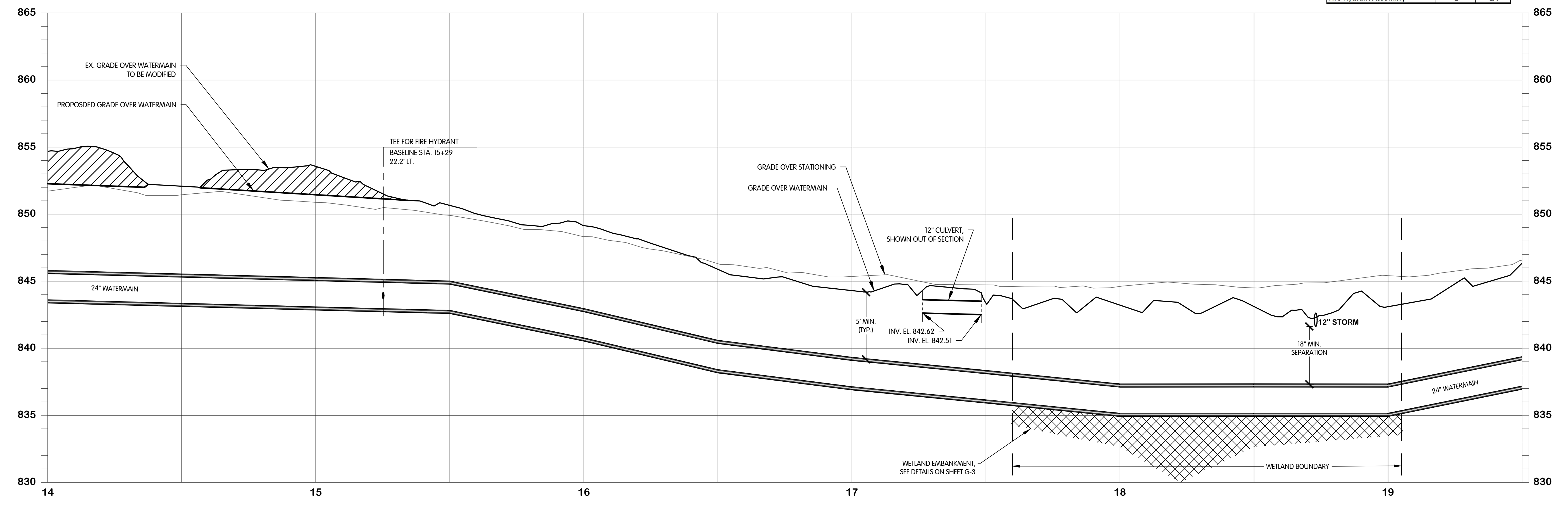
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



N 33RD STREET
STA. 14+00 TO 19+50

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	3	EA
Tree, Rem, 19 inch to 36 inch	5	EA
Remove 12" Storm Culvert	28	LF
12" CMP Storm Sewer	9	LF
12" Flared End Section	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.



KAL-767500(W)-N 33RD ST - WATER STA. 14+00-19+50
11/15/2021 3:15 PM - SWILLIS
11/19/2021 3:19 PM

REVISIONS AFTER ISSUED FOR BID
NO. DATE BY

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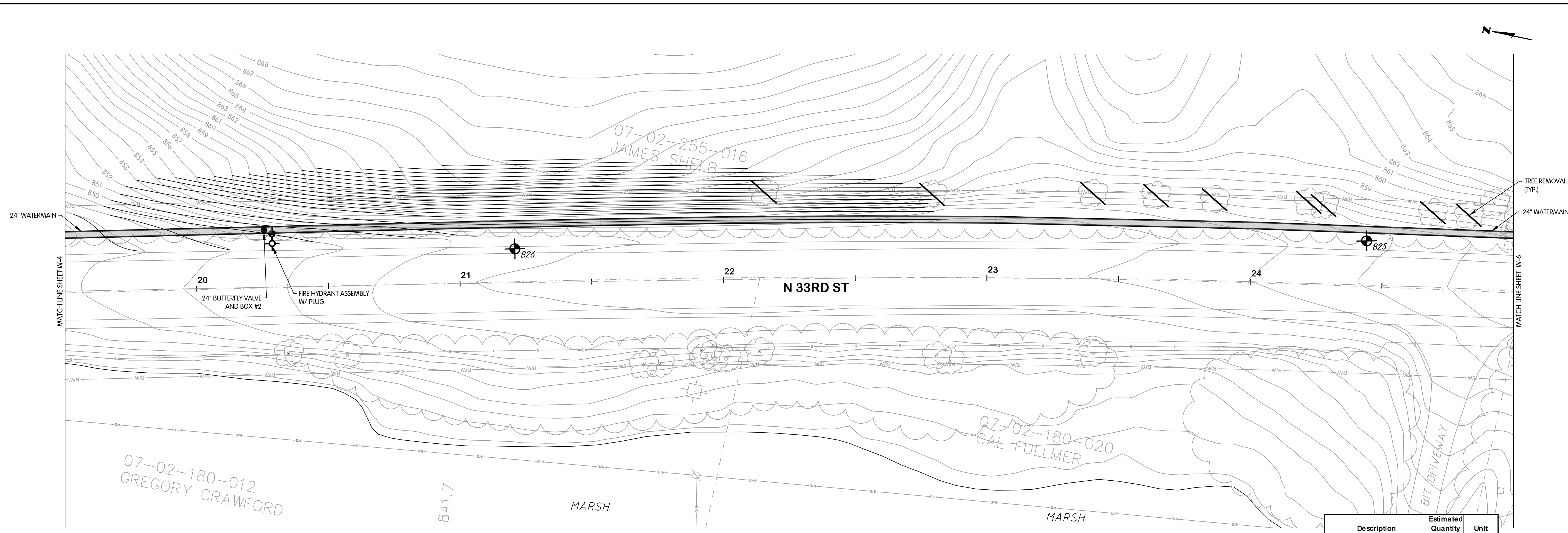
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JOB NO. 017-7675.001
SCALE 1" = 20'H, 1" = 4'V
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE
DESIGNED TLK DRAWN CJAF CHECKED AJD
STATUS PERMIT SET
DATE NOVEMBER, 2021
SHEET NO. W-4
8 OF 53



**N 33RD STREET - WATER
PLAN & PROFILE
19+50 TO 25+00**

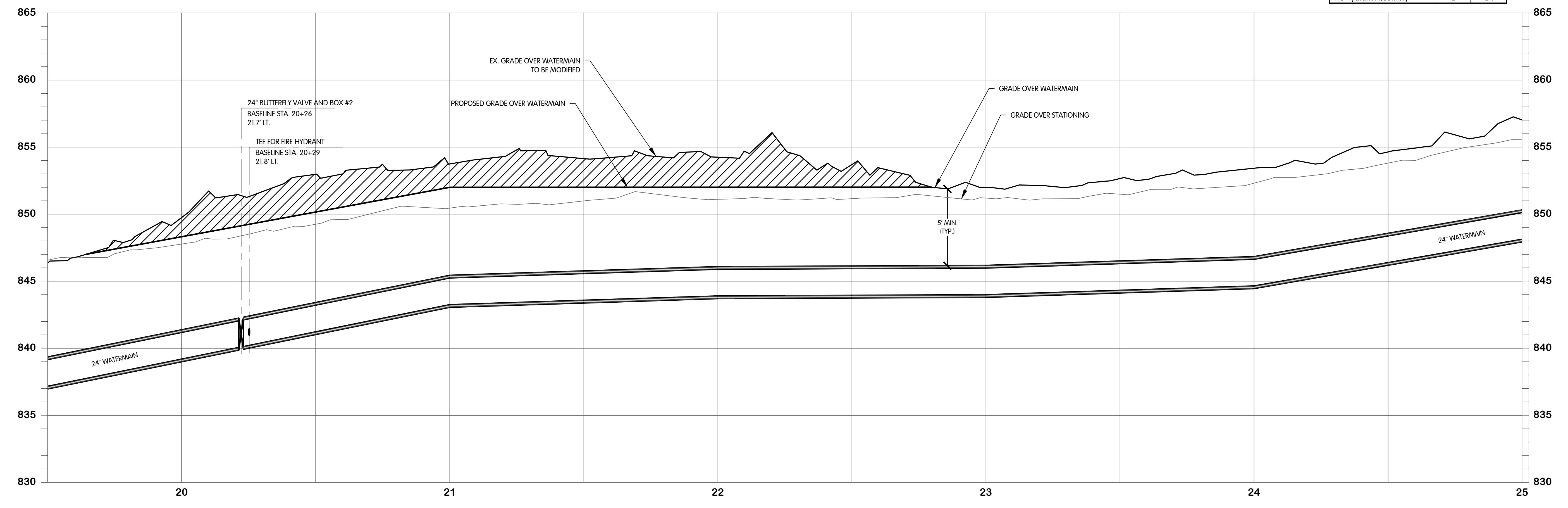
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	34	EA
Tree, Rem, 19 inch to 36 inch	17	EA
Tree, Rem, 36 inch and larger	1	EA
24" Butterfly Valve	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

**N 33RD STREET
STA. 19+50 TO 25+00**



KAL-767500106-N 33RD ST - WATER STA 19+50-25+00
9/1/2021 12:55 PM - CERRELL
11/19/2021 3:20 PM

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JOB NO. 017-7675.001

SCALE 1" = 20'H, 1" = 4'V

THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
TLK	CJAF	AJD

STATUS: PERMIT SET

DATE: NOVEMBER, 2021

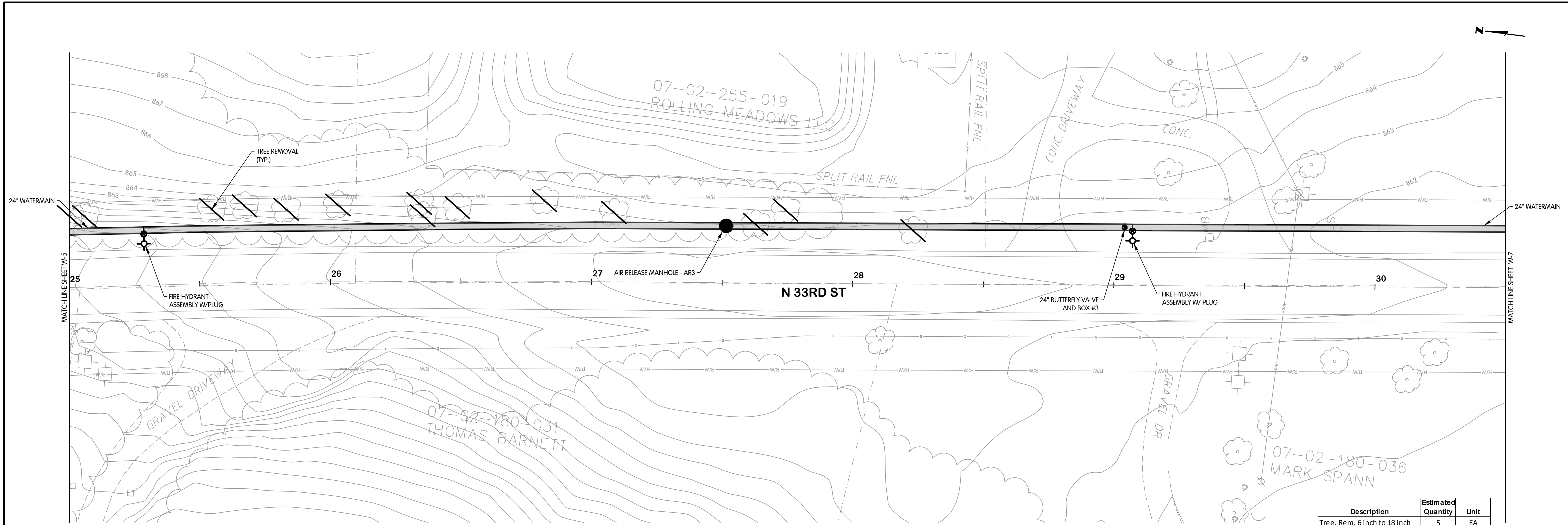
SHEET NO. W-5

9 OF 53



N 33RD STREET - WATER
PLAN & PROFILE
25+00 TO 30+50

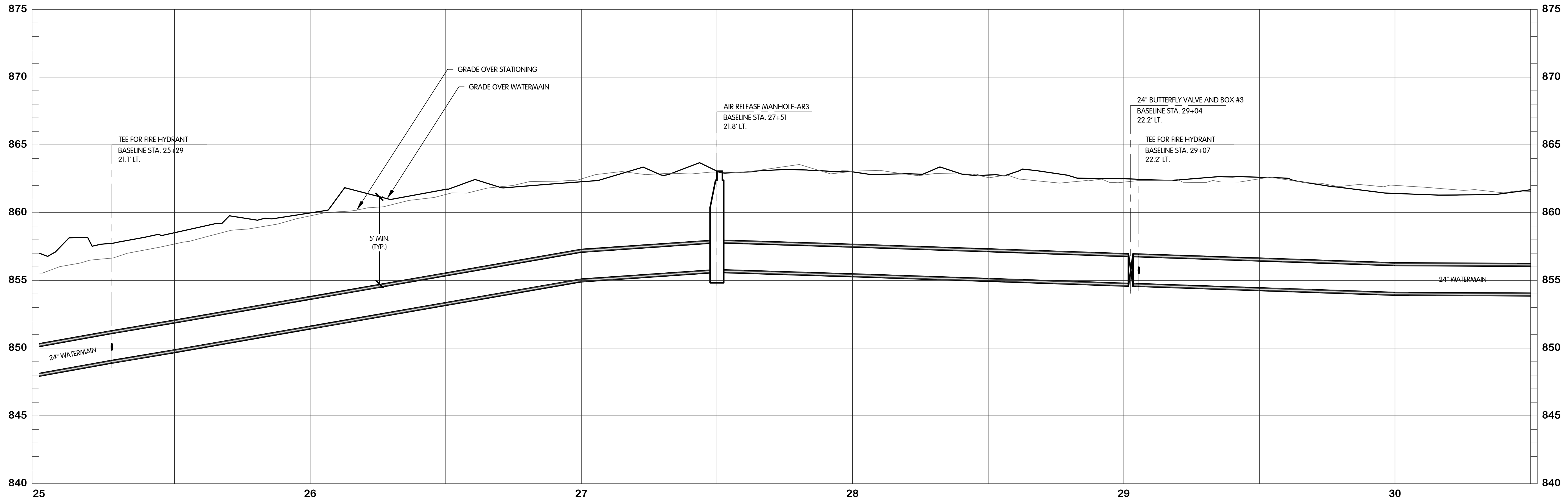
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

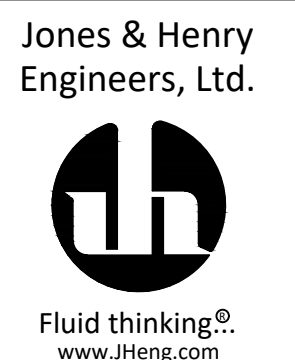
N 33RD STREET
STA. 25+00 TO 30+50

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	5	EA
Tree, Rem, 19 inch to 36 inch	10	EA
Tree, Rem, 36 inch and larger	3	EA
Air Release Manhole	1	EA
24" Butterfly Valve	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	2	EA

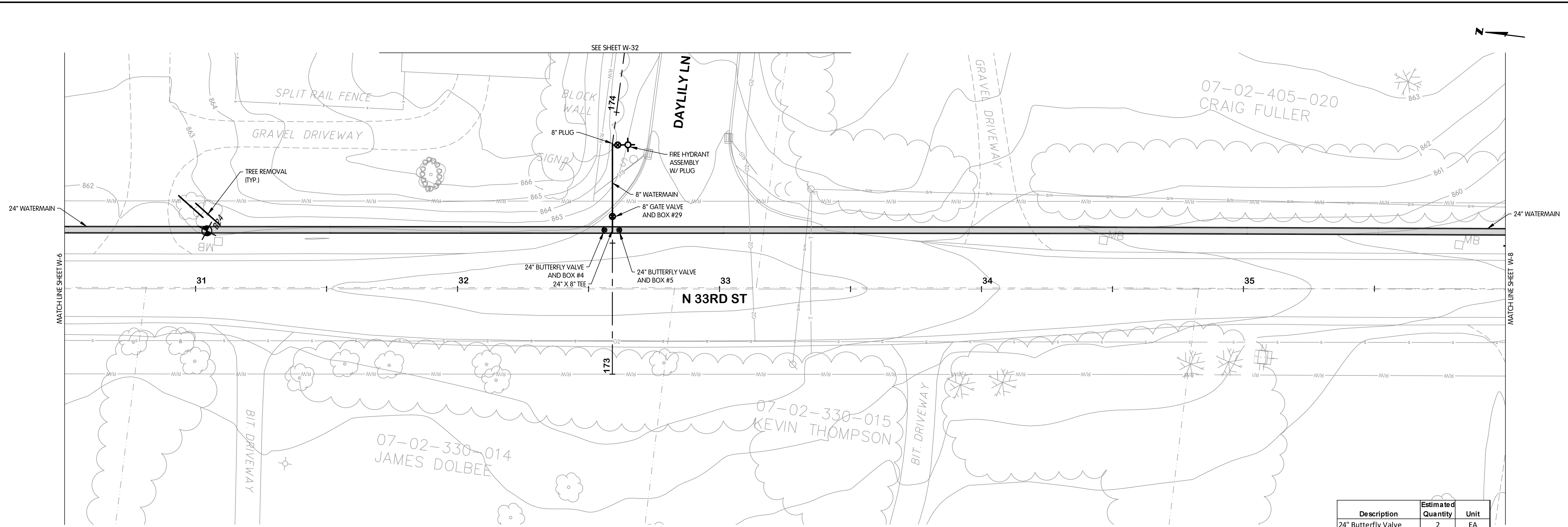


KAL-767500(W)-N 33RD ST - WATER STA. 25+00-30+50
9/1/2021 12:56 PM - CFERRELL
11/19/2021 3:20 PM

NO. 1
DATE
REVISIONS AFTER ISSUED FOR BID



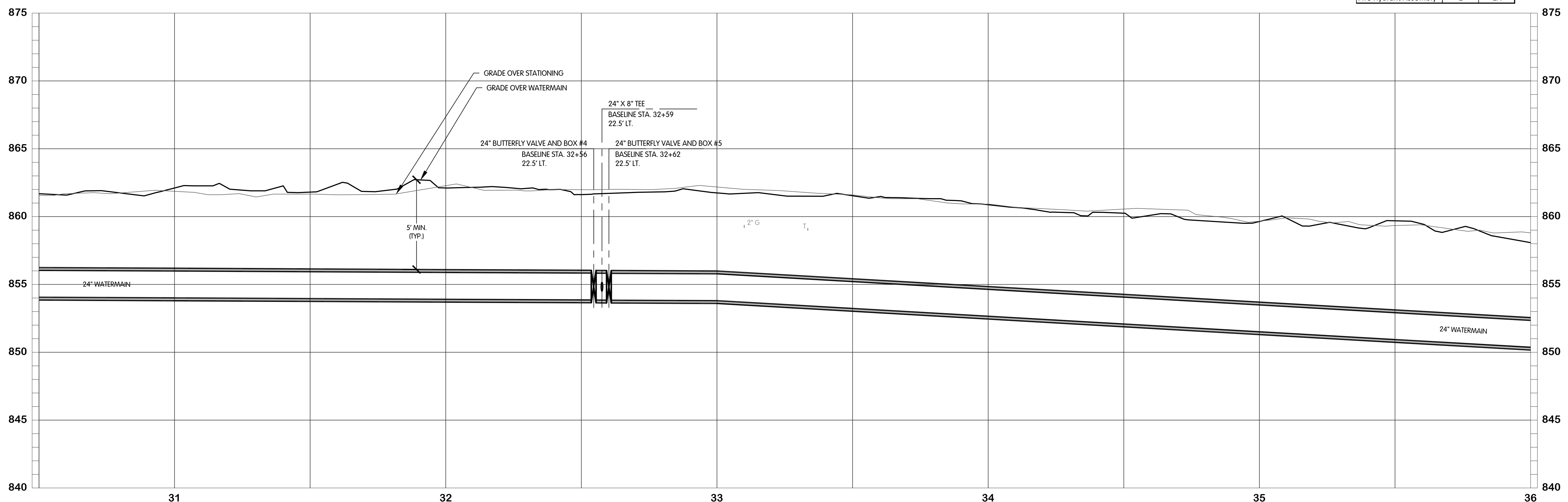
JOB NO. 017-7675.001
SCALE 1" = 20'H, 1" = 4'V
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE
DESIGNED TLK DRAWN CJAF CHECKED AJD
STATUS PERMIT SET
DATE NOVEMBER, 2021
SHEET NO. W-6
10 OF 53



NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

Description	Estimated Quantity	Unit
24" Butterfly Valve	2	EA
8" Gate Valve	1	EA
8" Plug	1	EA
24"x8" Tee	1	EA
8" Watermain	32	LF
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA

**N 33RD STREET
STA. 30+50 TO 36+00**



KAL-767500(W)-N 33RD ST - WATER STA. 30+50-36+00
9/1/2021 1:08 PM - CFERRELL
11/19/2021 3:20 PM



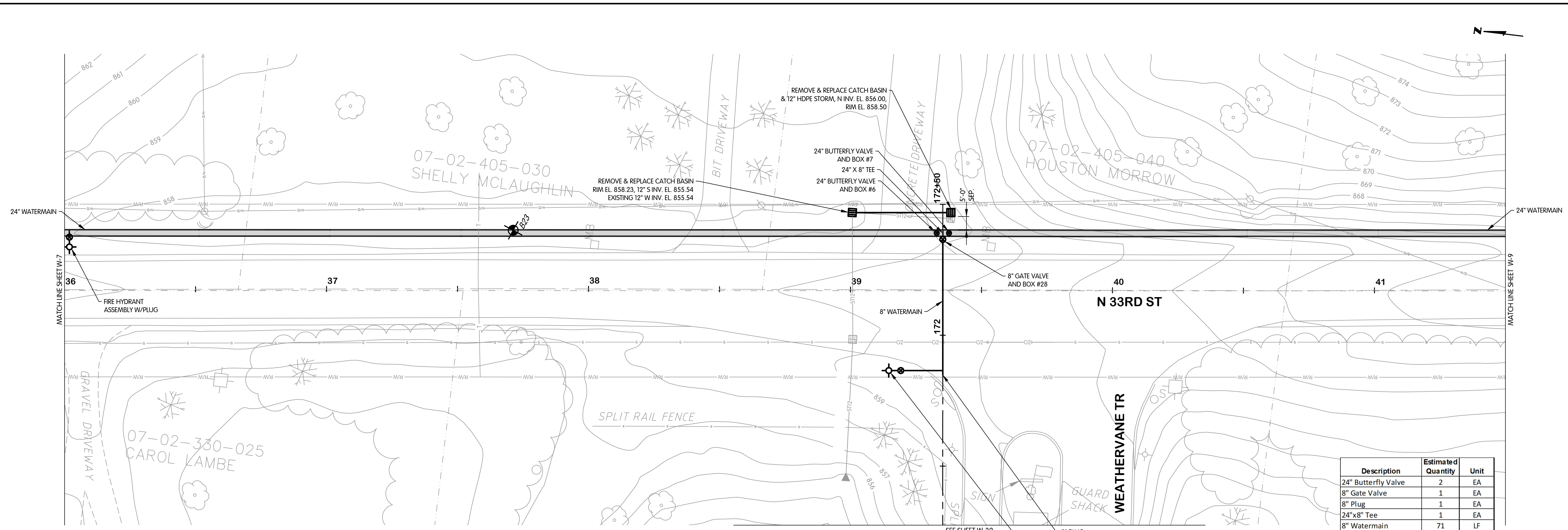
**N 33RD STREET - WATER
PLAN & PROFILE
30+50 TO 36+00**
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

NO. 1
DATE
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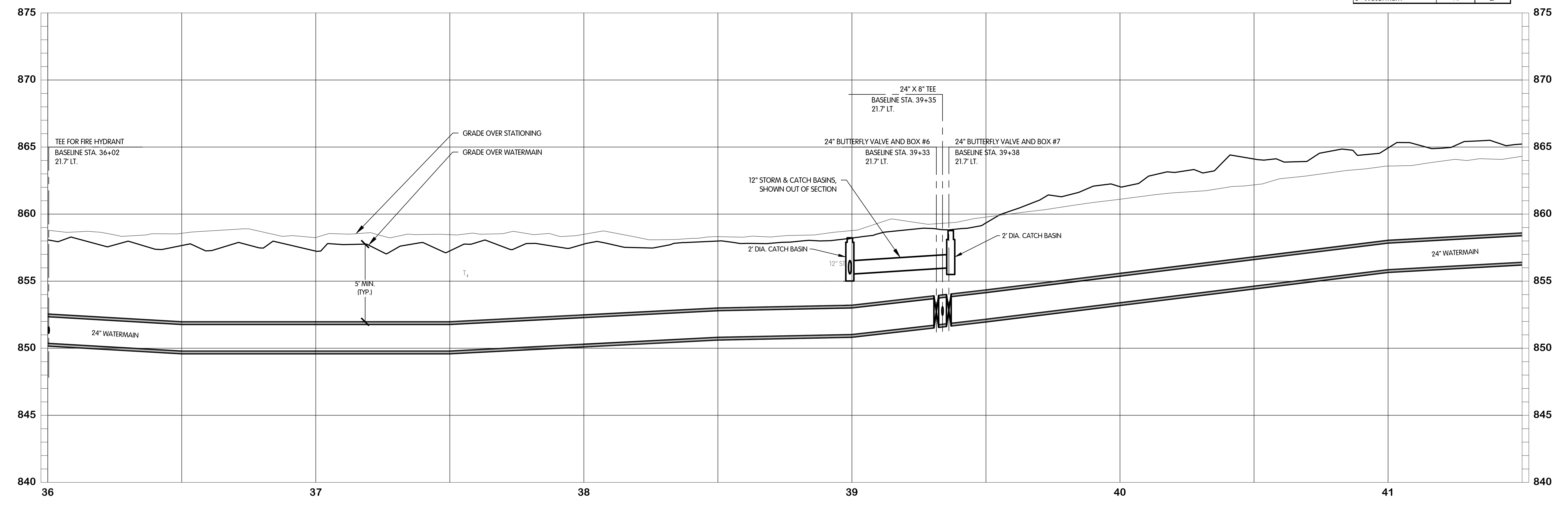
JOB NO. 017-7675.001
SCALE 1" = 20'H, 1" = 4'V
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE
DESIGNED TLK DRAWN CJAF CHECKED AJD
STATUS PERMIT SET
DATE NOVEMBER, 2021
SHEET NO. W-7
II OF 53



Description	Estimated Quantity	Unit
24" Butterfly Valve	2	EA
8" Gate Valve	1	EA
8" Plug	1	EA
24"x8" Tee	1	EA
8" Watermain	71	LF
24" Watermain	550	LF
Remove 12" Culvert	36	LF
12" HDPE Storm Sewer	36	LF
2' Dia. Catch Basin	1	EA
Fire Hydrant Assembly	2	EA
6" Watermain	15	LF

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

**N 33RD STREET
STA. 36+00 TO 41+50**



KAL-767500(W8)-N 33RD ST - WATER STA. 36+00-41+50
11/19/2021 2:49 PM - SWILLIS
11/19/2021 3:20 PM

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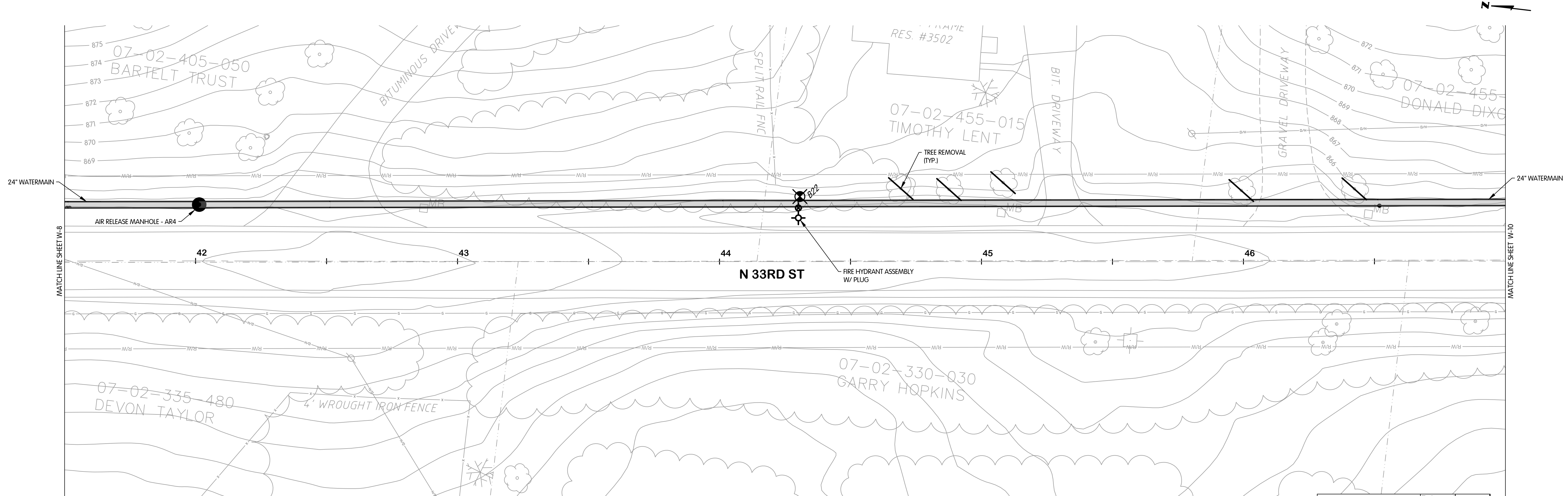
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JOB NO. 017-7675.001
SCALE 1" = 20'H, 1" = 4'V
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE
DESIGNED TLK DRAWN CJAF CHECKED AJD
STATUS PERMIT SET
DATE NOVEMBER, 2021
SHEET NO. W-8
12 OF 53



N 33RD STREET - WATER
PLAN & PROFILE
STA. 41+50 TO 47+00

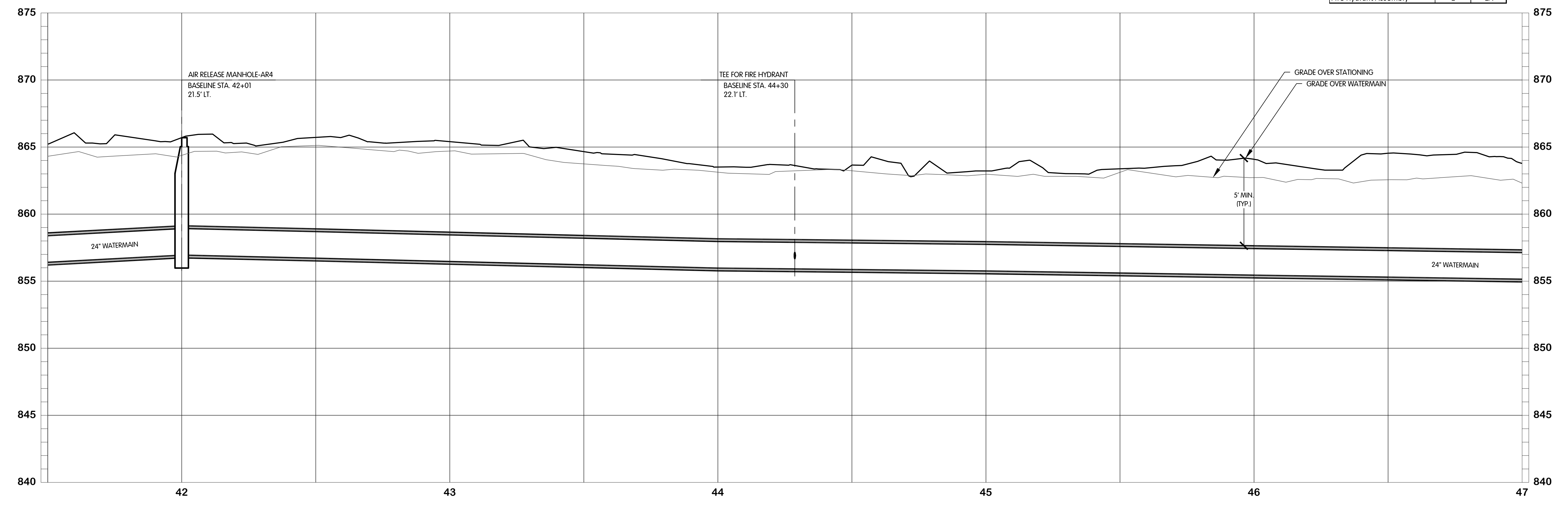
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



**N 33RD STREET
STA. 41+50 TO 47+00**

Description	Estimated Quantity	Unit
Tree, Rem, 19 inch to 36 inch	2	EA
Tree, Rem, 36 inch and larger	1	EA
Air Release Manhole	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.



KAL-767500(W)-N 33RD ST - WATER STA. 41+50-47+00
9/1/2021 11:03 PM - CFERRELL
11/19/2021 3:21 PM

NO. 1
DATE
BY
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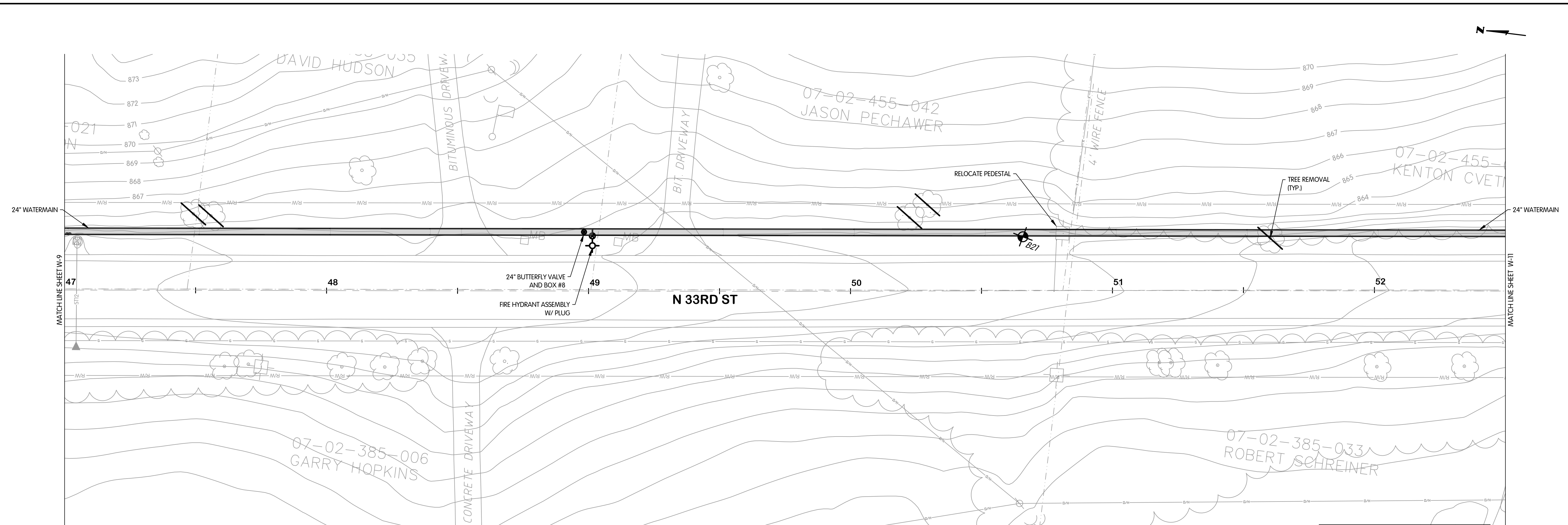
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JOB NO. 017-7675.001
SCALE 1" = 20' V, 1" = 4' H
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
TLK	CJAF	AJD

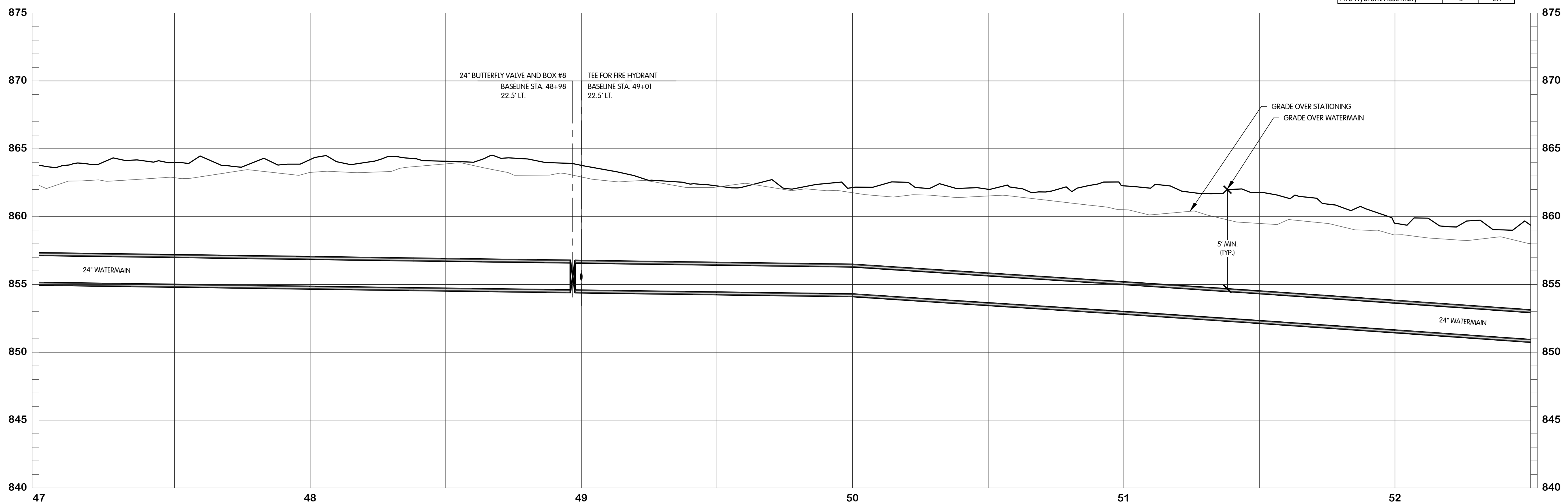
STATUS: PERMIT SET
DATE: NOVEMBER, 2021
SHEET NO. W-9
13 OF 53



**N 33RD STREET
STA. 47+00 TO 52+50**

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	1	EA
Tree, Rem, 19 inch to 36 inch	5	EA
24" Butterfly Valve	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA



KAL-767500-WP-N 33RD ST - WATER STA. 47+00-52+50
9/1/2021 1:35 PM - CFERRELL
11/19/2021 3:21 PM



**N 33RD STREET - WATER
PLAN & PROFILE
STA. 47+00 TO 52+50**

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

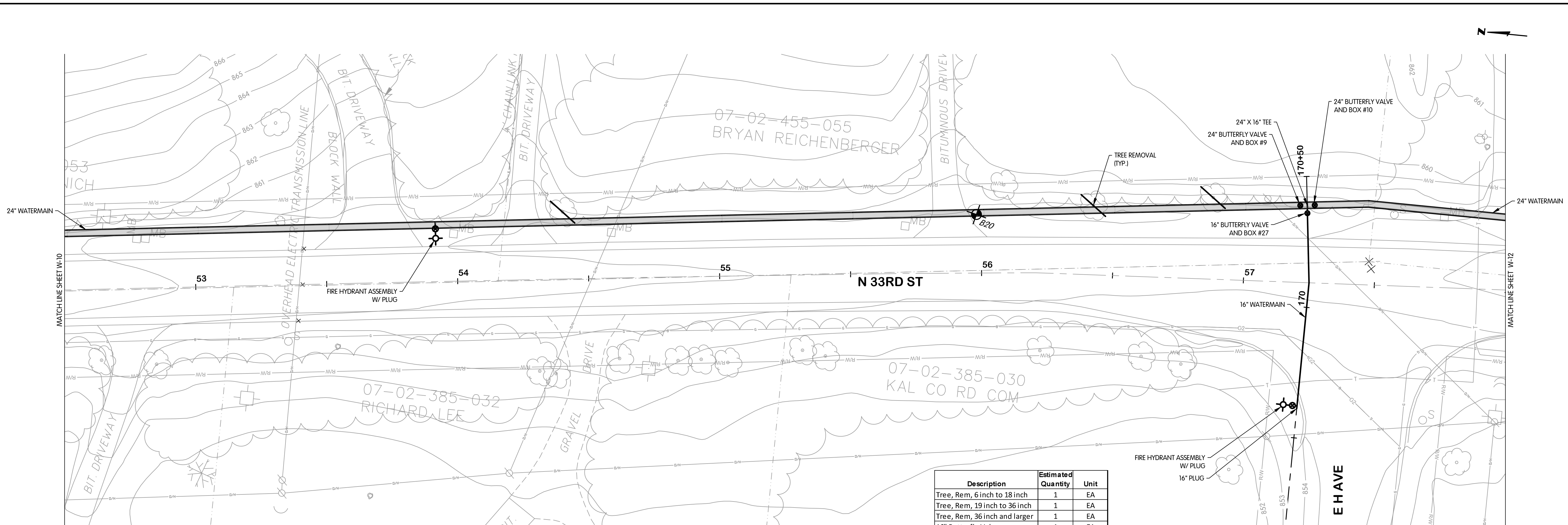
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JOB NO.	017-7675.001
SCALE	1" = 20'H, 1" = 4'V
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE	
DESIGNED	TLK
DRAWN	CJAF
CHECKED	AJD
STATUS	PERMIT SET
DATE	NOVEMBER, 2021
SHEET NO.	W-10
	14 OF 53



N 33RD STREET - WATER
PLAN & PROFILE
STA. 52+50 TO 58+00

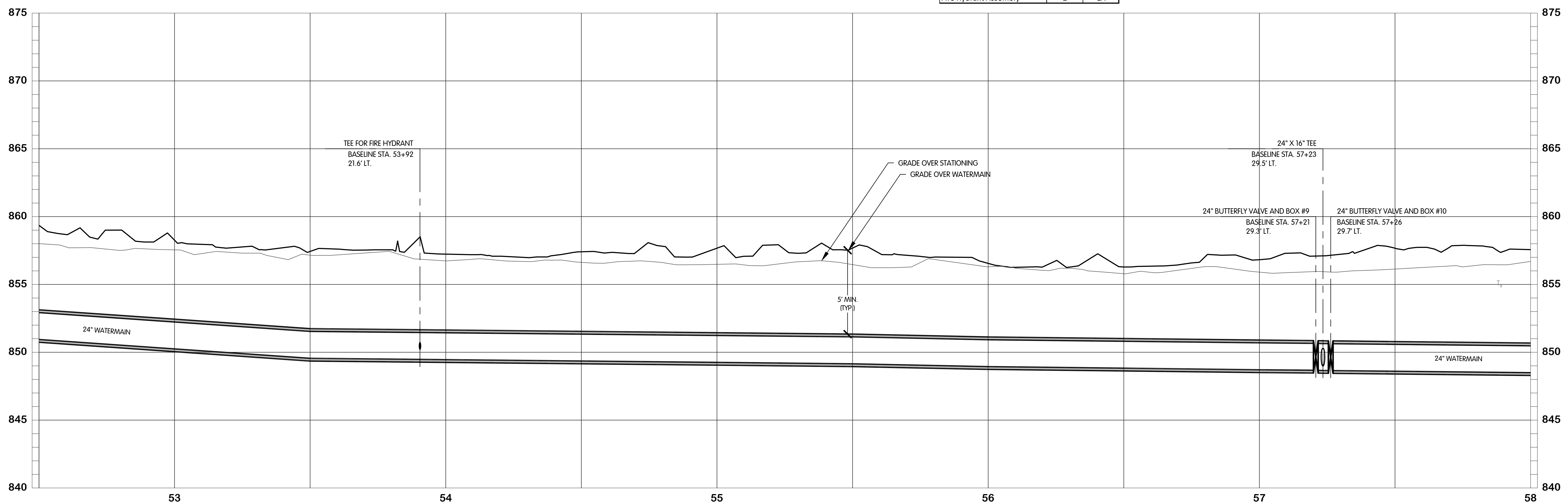
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



N 33RD STREET
STA. 52+50 TO 58+00

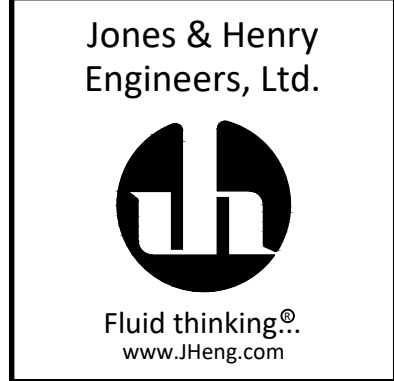
Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	1	EA
Tree, Rem, 19 inch to 36 inch	1	EA
Tree, Rem, 36 inch and larger	1	EA
16" Butterfly Valve	1	EA
24" Butterfly Valve	2	EA
16" Plug	1	EA
24"x16" Tee	1	EA
16" Watermain	77	LF
24" Watermain	550	LF
Fire Hydrant Assembly	2	EA

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.



KAL-767500(W)-N 33RD ST - WATER STA. 52+50-58+00
9/1/2021 11:14 PM - CFERRELL
11/19/2021 3:21 PM

DESIGNED BY: TLK
DRAWN BY: CJAF
CHECKED BY: AJD
STATUS: PERMIT SET
DATE: NOVEMBER, 2021
SHEET NO. W-11
15 OF 53

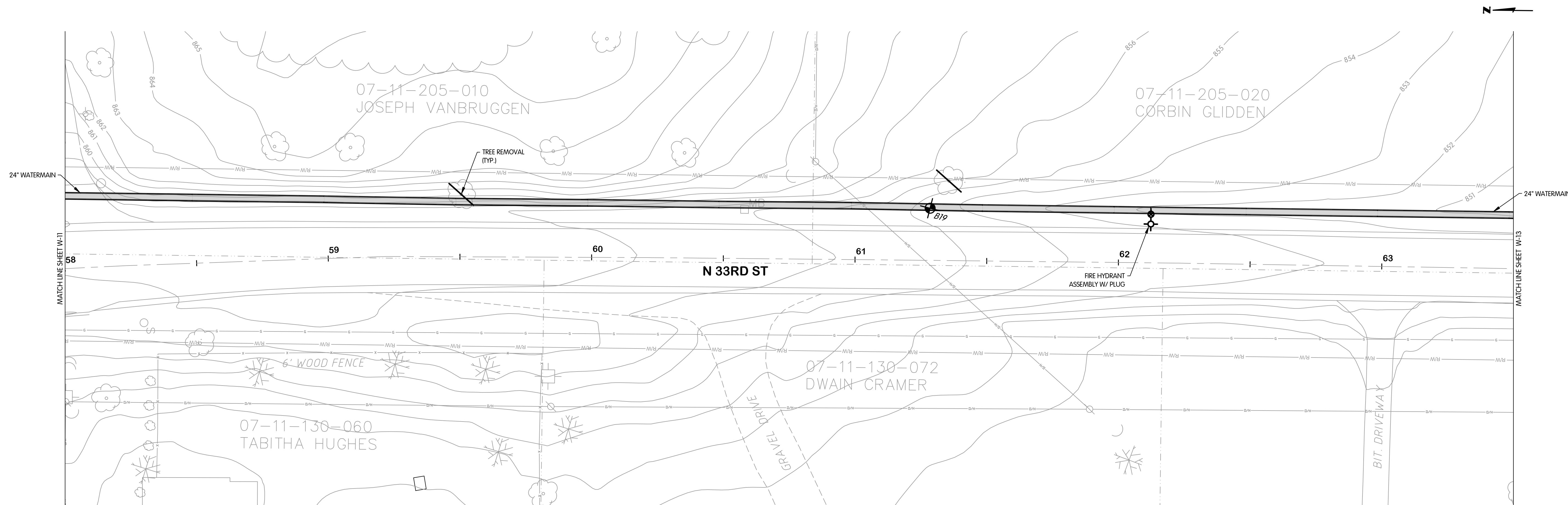


JOB NO. 017-7675.001
SCALE 1" = 20'H, 1" = 4'V
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE
DESIGNED TLK DRAWN CJAF CHECKED AJD
STATUS PERMIT SET
DATE NOVEMBER, 2021
SHEET NO. W-11
15 OF 53



**N 33RD STREET - WATER
PLAN & PROFILE
STA. 58+00 TO 63+50**

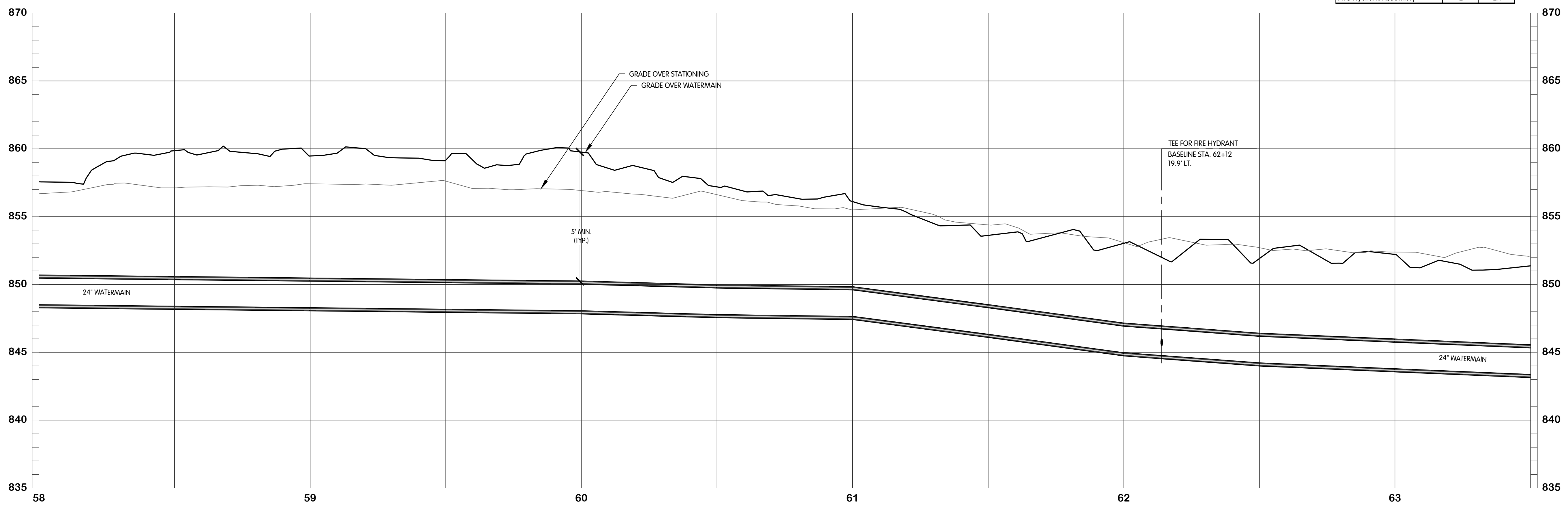
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



**N 33RD STREET
STA. 58+00 TO 63+50**

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

Description	Estimated Quantity	Unit
Tree, Rem, 19 inch to 36 inch	1	EA
Tree, Rem, 36 inch and larger	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA



KAL-767500/WP-N 33RD ST - WATER STA. 58+00-63+50
11/17/2021 3:41 PM - SWILLIS
11/19/2021 3:21 PM

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SCALE 1" = 20'H, 1" = 4'V

THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE

DESIGNED TLK	DRAWN CJAF	CHECKED AJD
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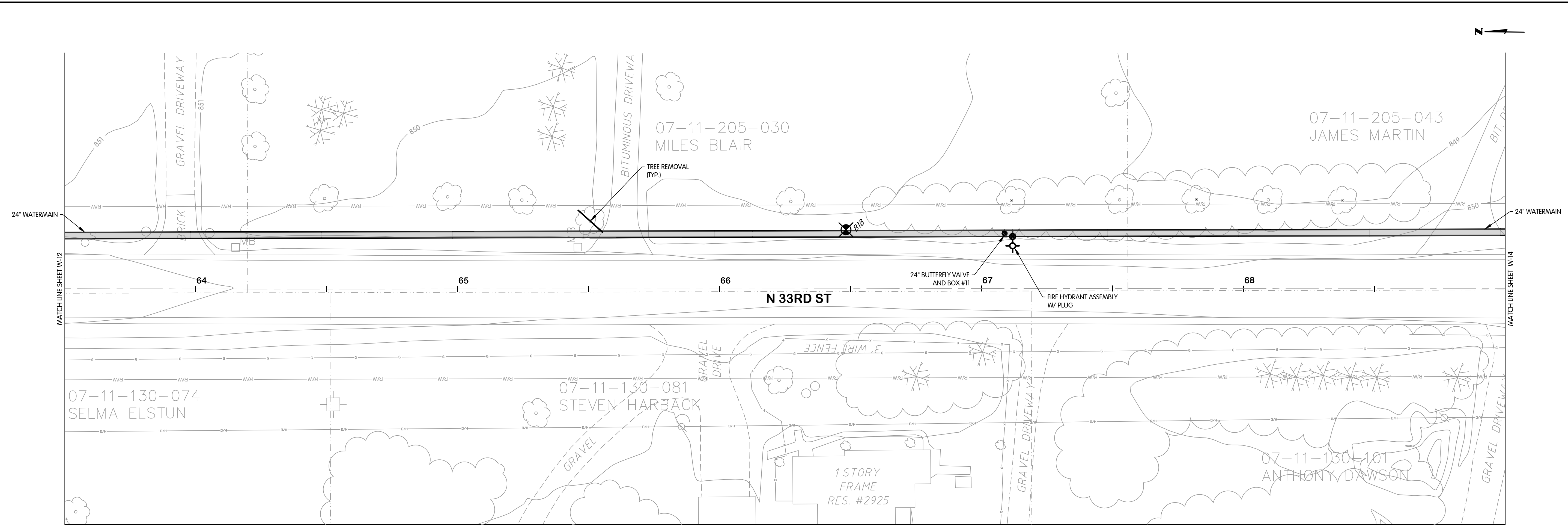
STATUS: PERMIT SET
DATE: NOVEMBER, 2021

SHEET NO.
W-12
16 OF 53



**N 33RD STREET - WATER
PLAN & PROFILE
STA. 63+50 TO 69+00**

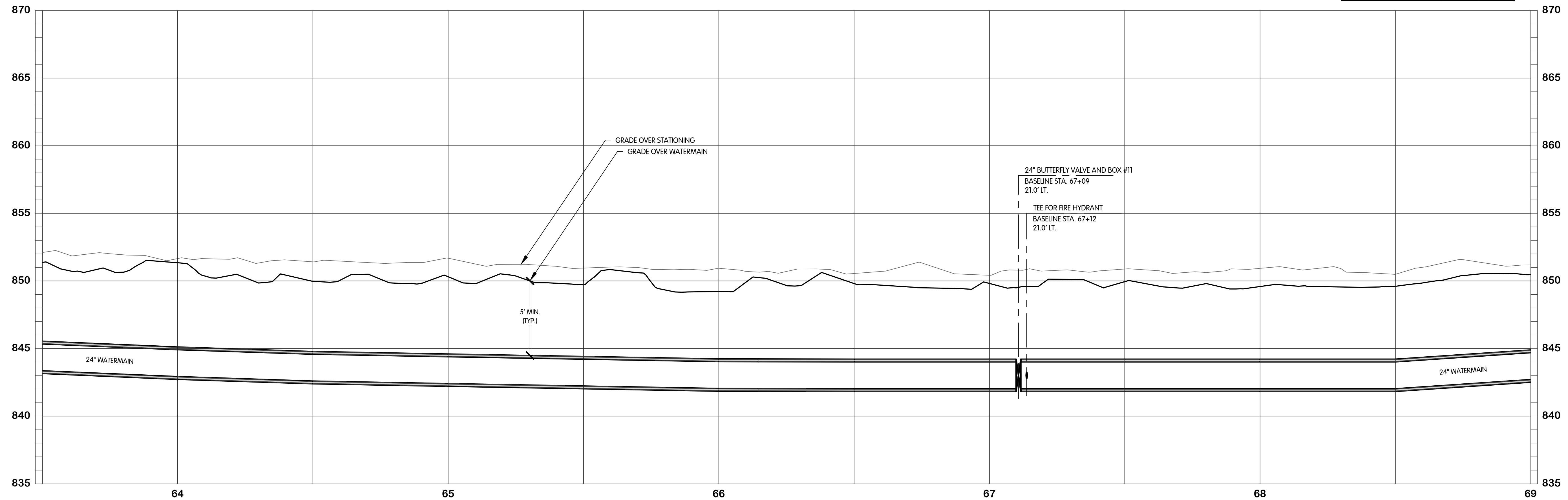
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



**N 33RD STREET
STA. 63+50 TO 69+00**

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	1	EA
24" Butterfly Valve	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.



KAL-767500/WIS-N 33RD ST - WATER STA. 63+50-69+00
9/7/2021 11:06 PM - CFERRELL
11/19/2021 3:22 PM

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JOB NO. 017-7675.001

SCALE 1" = 20'H, 1" = 4'V

THIS LINE SCALES IF WHEN
PLOTTED TO NOTED SCALE

DESIGNED TLK	DRAWN CJAF	CHECKED AJD
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STATUS: PERMIT SET

DATE: NOVEMBER, 2021

SHEET NO.

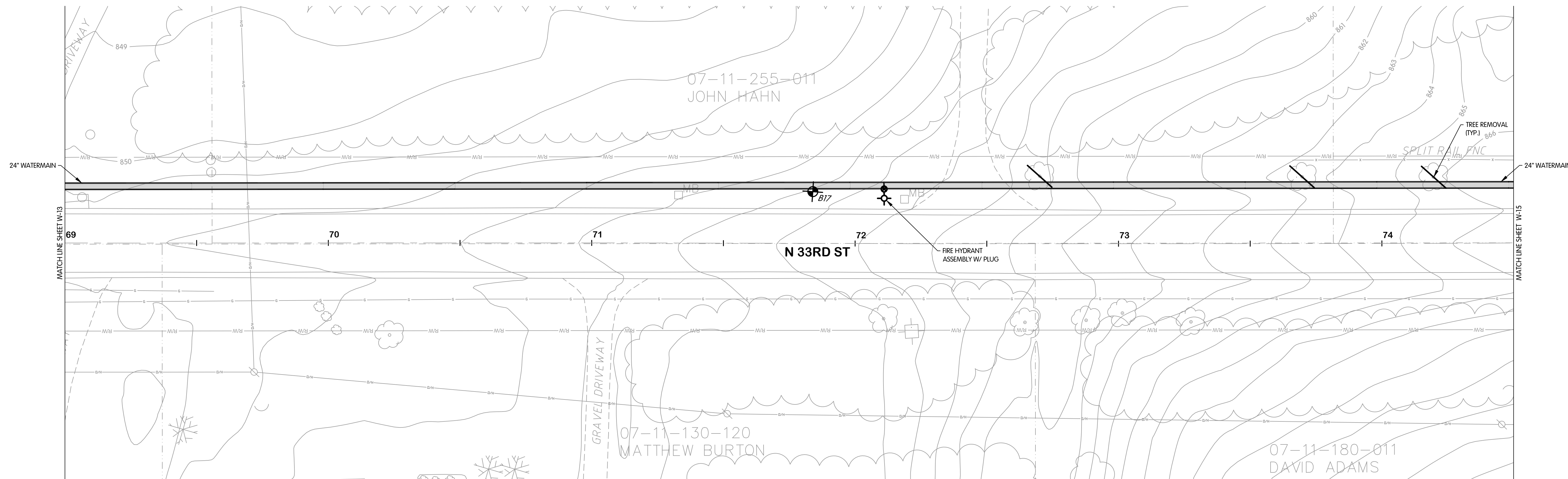
W-13

17 OF 53



**N 33RD STREET - WATER
PLAN & PROFILE
STA. 69+00 TO 74+50**

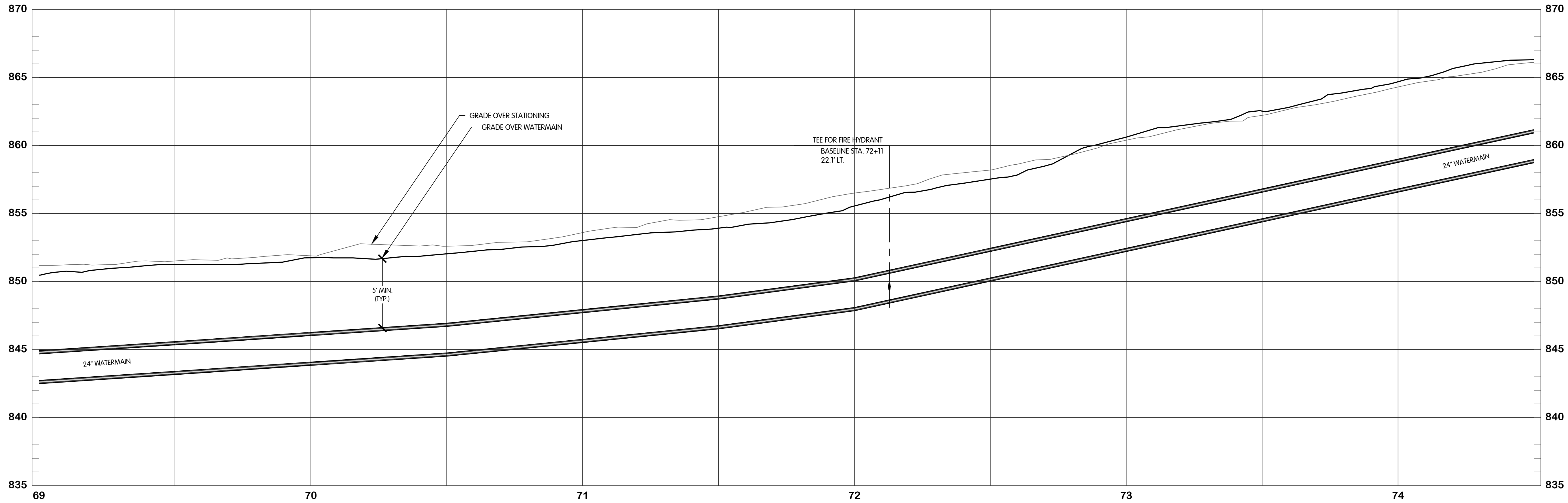
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



**N 33RD STREET
STA. 69+00 TO 74+50**

Description	Estimated Quantity	Unit
Tree, Rem, 19 inch to 36 inch	1	EA
Tree, Rem, 36 inch and larger	2	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.



KAL-767500-01-N 33RD ST - WATER STA. 69+00-74+50
9/1/2021 1:17 PM - CFERRELL
11/19/2021 3:22 PM

NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
REVISIONS AFTER ISSUED FOR BID
DATE

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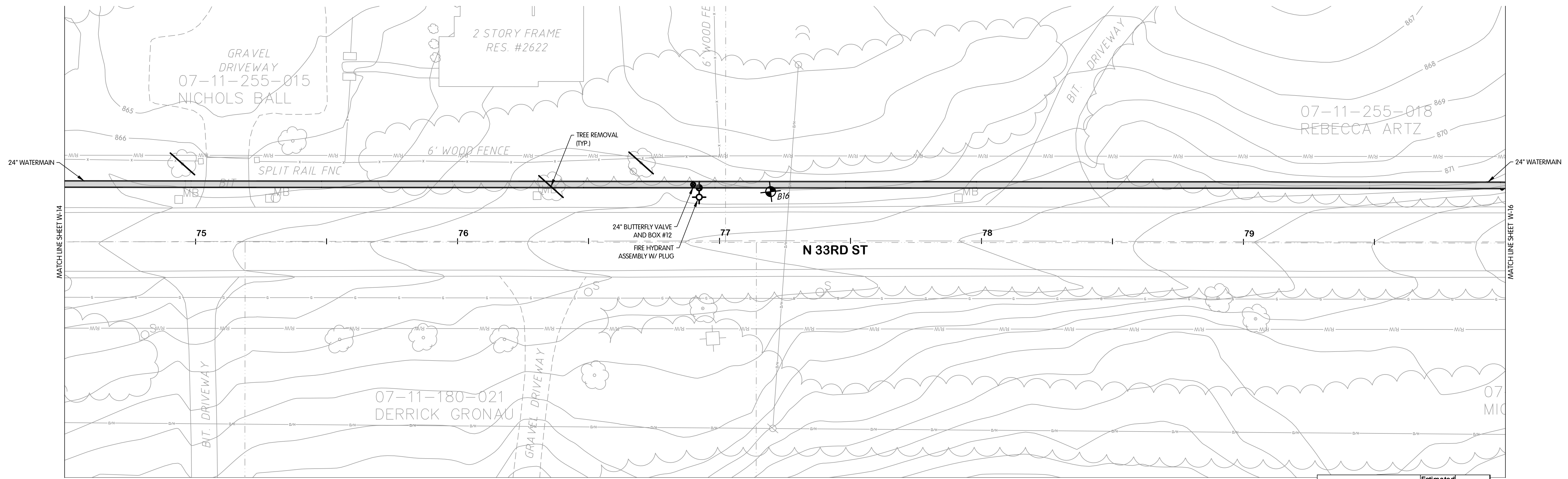
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JOB NO. 017-7675.001
SCALE 1" = 20'H, 1" = 4'V
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE
DESIGNED TLK DRAWN CJAF CHECKED AJD
STATUS PERMIT SET
DATE NOVEMBER, 2021
SHEET NO. W-14
18 OF 53



N 33RD STREET - WATER
PLAN & PROFILE
STA. 74+50 TO 80+00

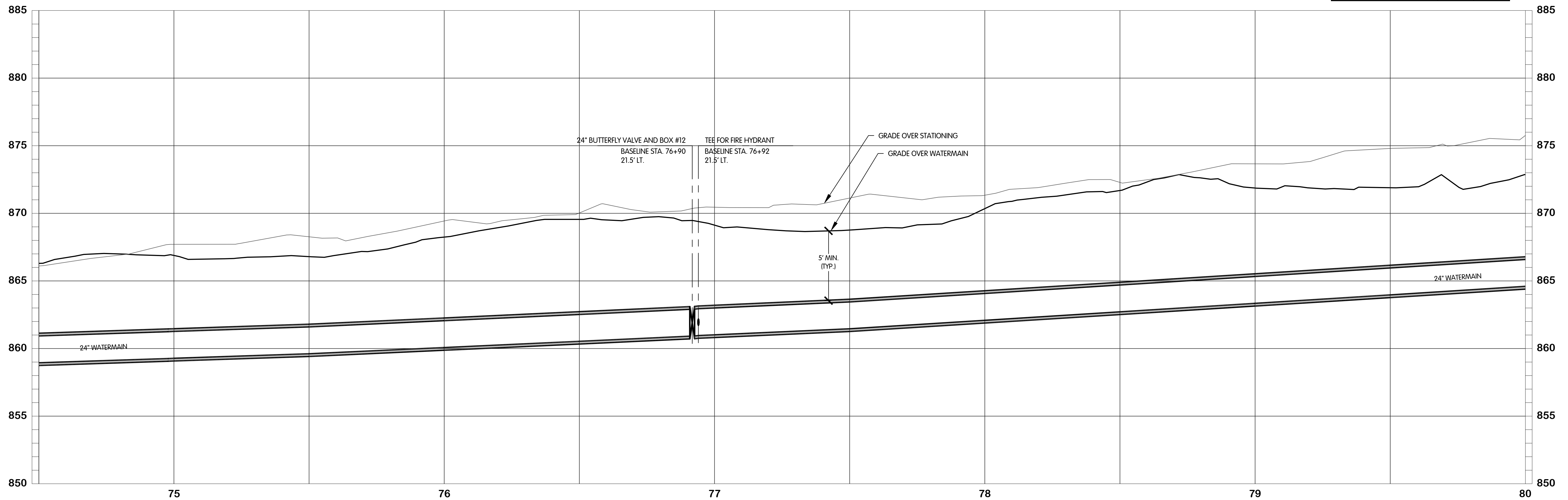
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



**N 33RD STREET
STA. 74+50 TO 80+00**

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	1	EA
Tree, Rem, 36 inch and larger	1	EA
24" Butterfly Valve	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.



KAL-767500-WIS-N 33RD ST - WATER STA. 74+50-80+00
9/1/2021 11:8 PM - CFERRELL
11/19/2021 3:22 PM

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SCALE 1" = 20'H, 1" = 4'V

THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
TLK	CJAF	AJD

STATUS: PERMIT SET
DATE: NOVEMBER, 2021

SHEET NO.

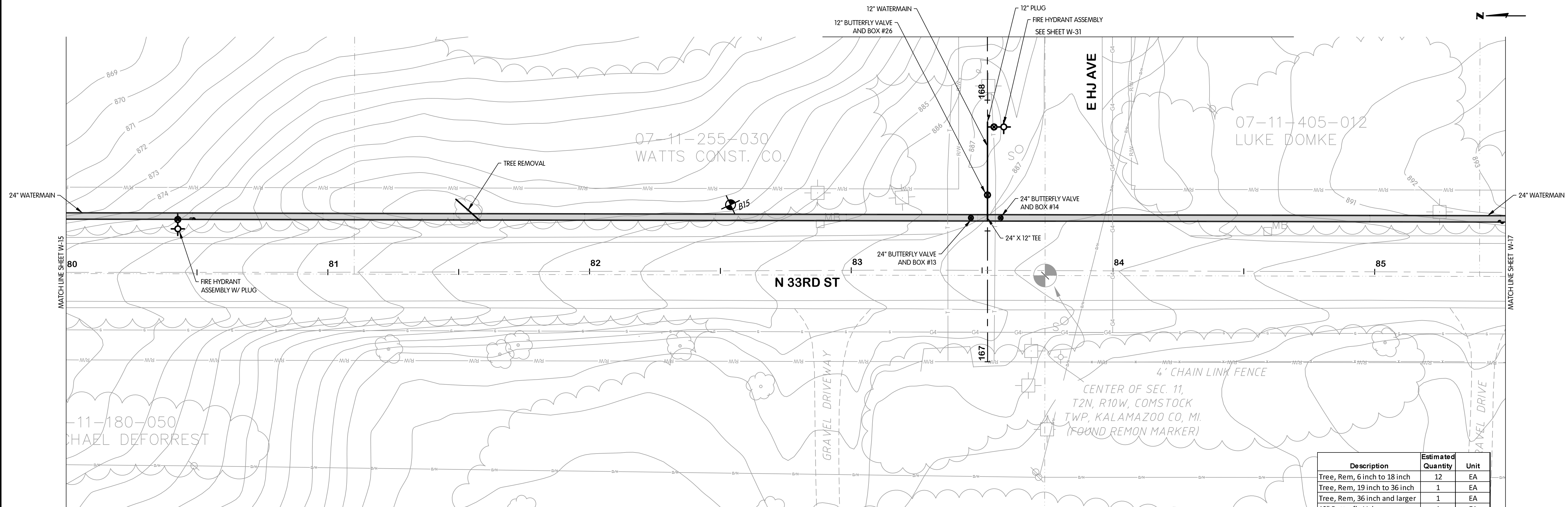
W-15

19 OF 53



N 33RD STREET - WATER
PLAN & PROFILE
STA. 80+00 TO 85+50

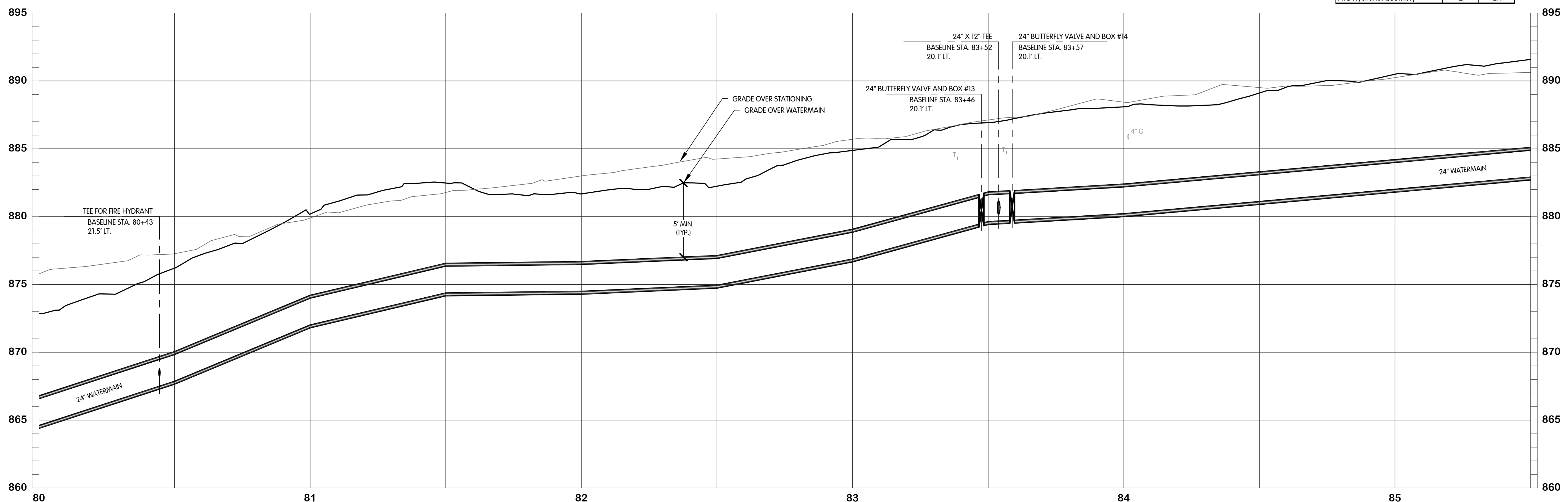
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	12	EA
Tree, Rem, 19 inch to 36 inch	1	EA
Tree, Rem, 36 inch and larger	1	EA
12" Butterfly Valve	1	EA
24" Butterfly Valve	2	EA
12" Plug	1	EA
24"x12" Tee	1	EA
12" Watermain	35	LF
24" Watermain	550	LF
Fire Hydrant Assembly	2	EA

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

N 33RD STREET
STA. 80+00 TO 85+50



KAL-7675001W16-N 33RD ST - WATER STA. 80+00-85+50
11/2/2021 4:49 PM - SWILLIS
11/19/2021 3:22 PM

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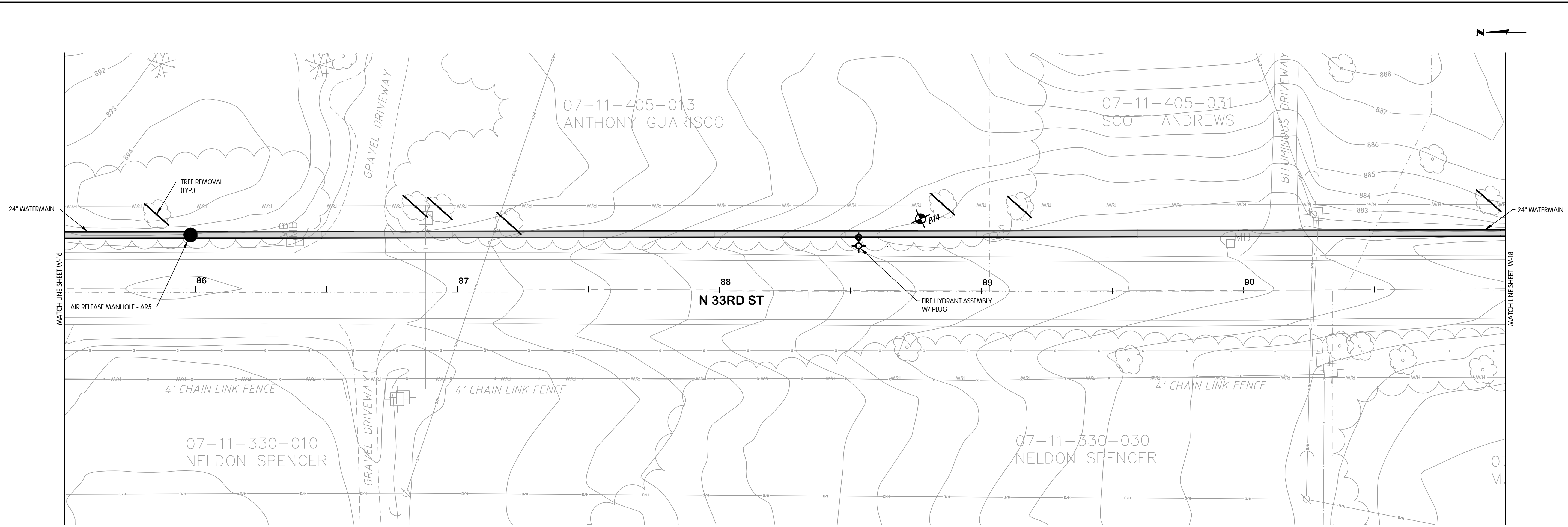
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SCALE 1" = 20'H, 1" = 4'V
THIS LINE SCALES 1" WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
TLK	CJAF	AJD

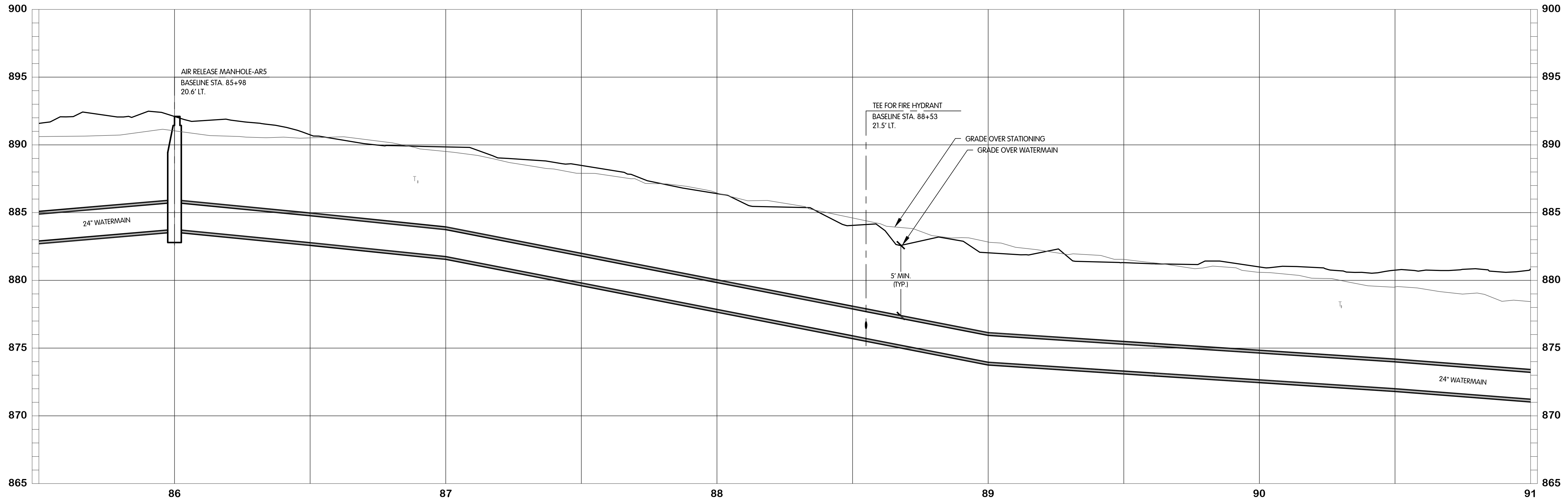
STATUS: PERMIT SET
DATE: NOVEMBER, 2021
SHEET NO. W-16
20 OF 53



**N 33RD STREET
STA. 85+50 TO 91+00**

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	11	EA
Air Release Manhole	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA



KAL-76750017-N 33RD ST - WATER STA. 85+50-91+00
9/1/2021 1:21 PM - CFERRELL
11/19/2021 3:23 PM



**N 33RD STREET - WATER
PLAN & PROFILE
STA. 85+50 TO 91+00**

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

NO. 1
DATE
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JOB NO. 017-7675.001
SCALE 1" = 20'H, 1" = 4' V
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE

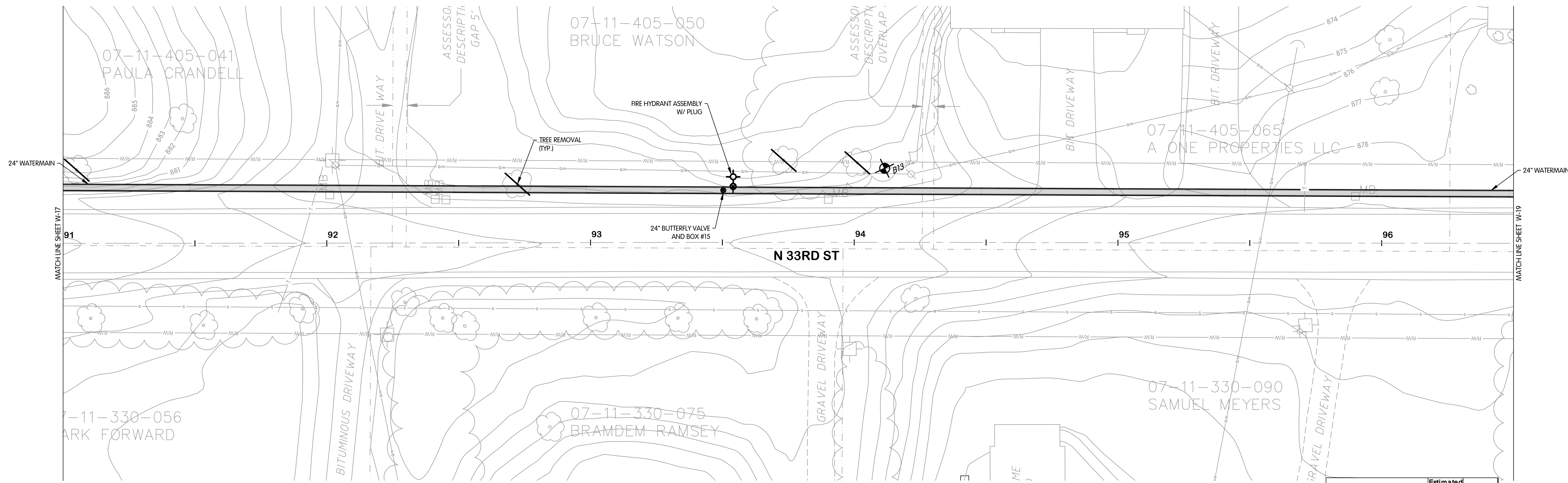
DESIGNED	DRAWN	CHECKED
TLK	CJAF	AJD

STATUS: PERMIT SET
DATE: NOVEMBER, 2021
SHEET NO. W-17
21 OF 53



N 33RD STREET - WATER
PLAN & PROFILE
STA. 91+00 TO 96+50

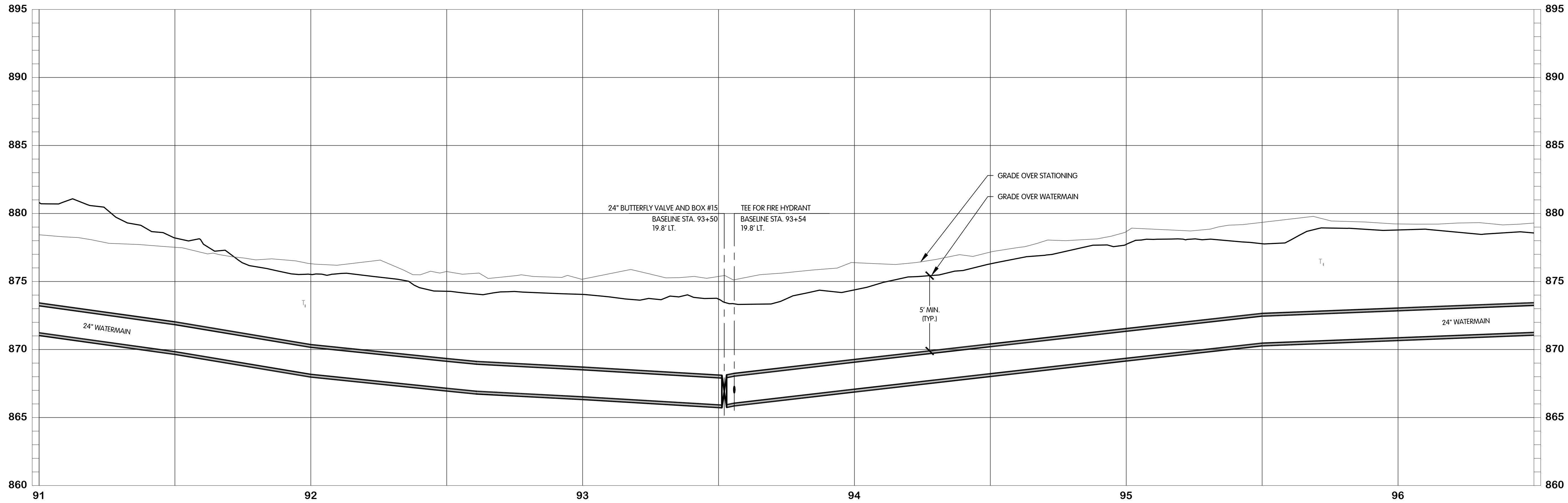
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

N 33RD STREET
STA. 91+00 TO 96+50

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	1	EA
Tree, Rem, 19 inch to 36 inch	1	EA
24" Butterfly Valve	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA



KAL-767500/WP-N 33RD ST - WATER STA. 91+00-96+50
9/1/2021 1:22 PM - CFERRELL
11/19/2021 3:23 PM

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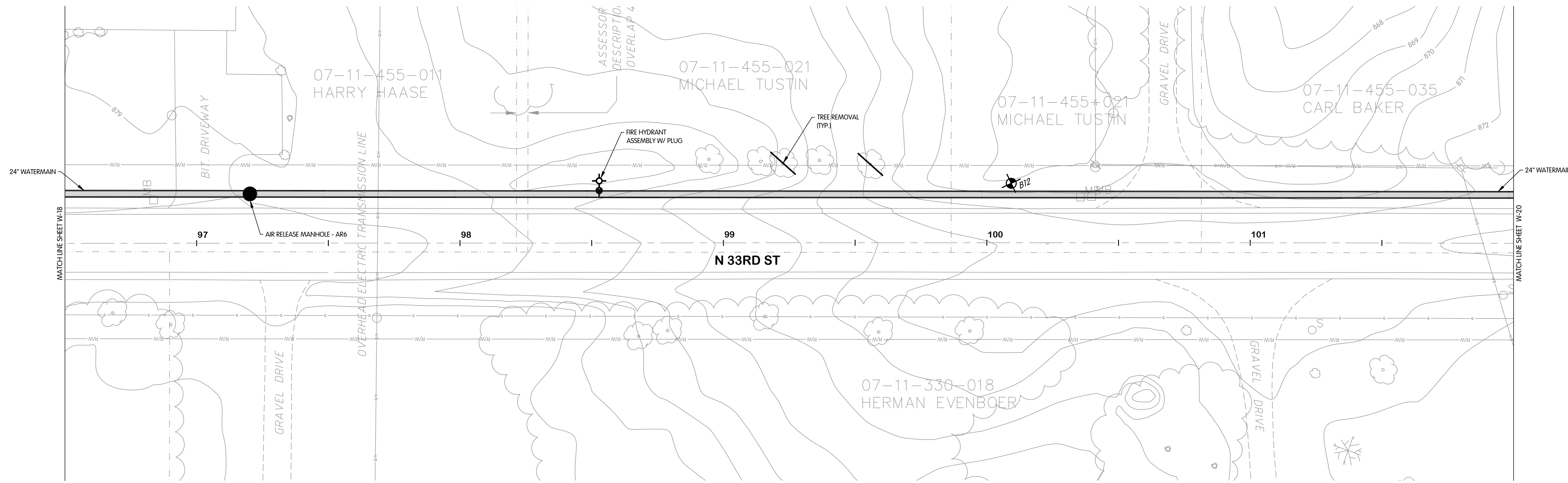
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TLK	CJAF	AJD

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DATE: NOVEMBER, 2021
SHEET NO.



N 33RD STREET - WATER
PLAN & PROFILE
STA. 96+50 TO 102+00

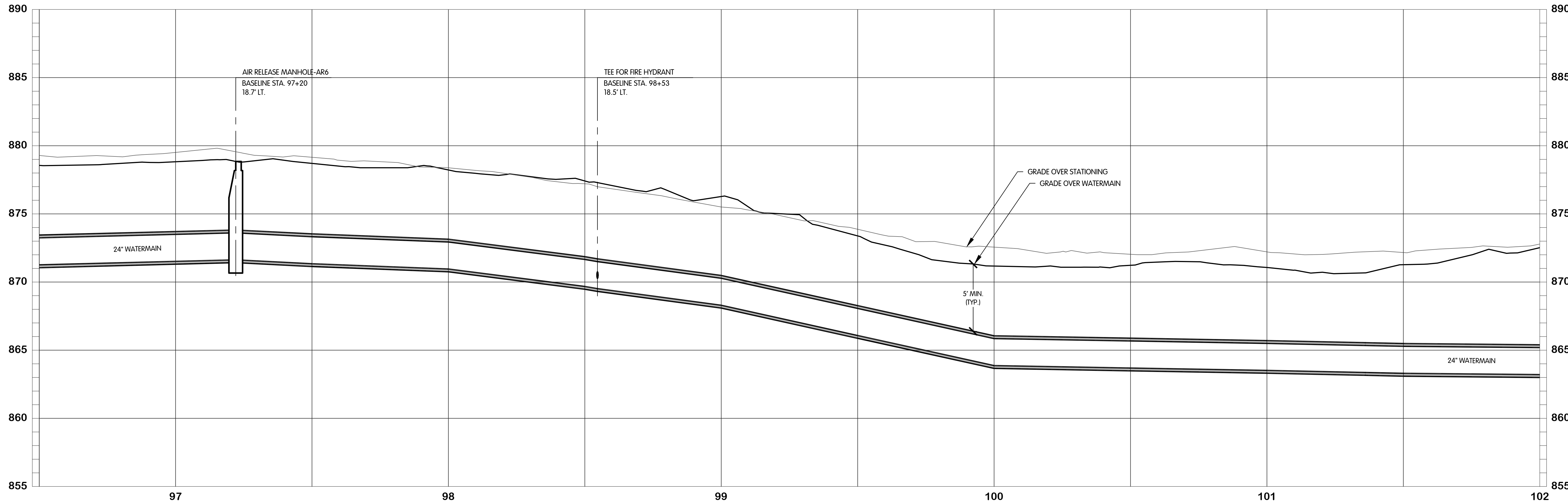
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N 33RD STREET
STA. 96+50 TO 102+00

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

Description	Estimated Quantity	Unit
Air Release Manhole	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA



KAL-767500/WP-N 33RD ST - WATER STA. 96+50-102.00
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SCALE 1" = 20'H, 1" = 4'V
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE

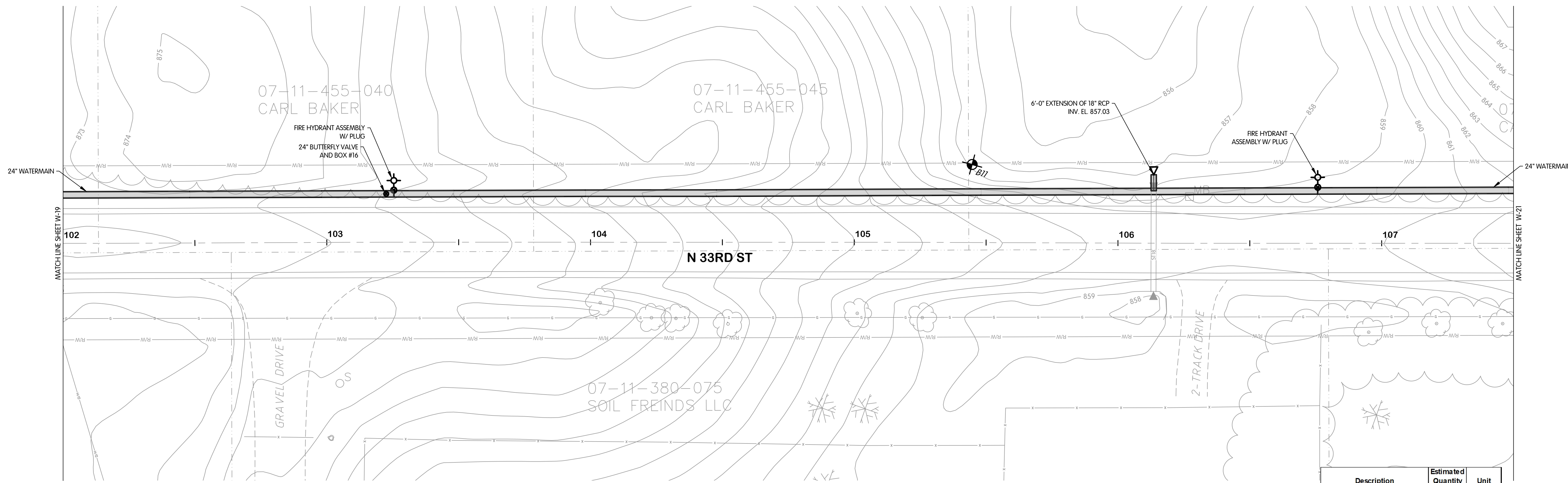
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STATUS: PERMIT SET
DATE: NOVEMBER, 2021
SHEET NO.



N 33RD STREET - WATER
PLAN & PROFILE
STA. 102+00 TO 107+50

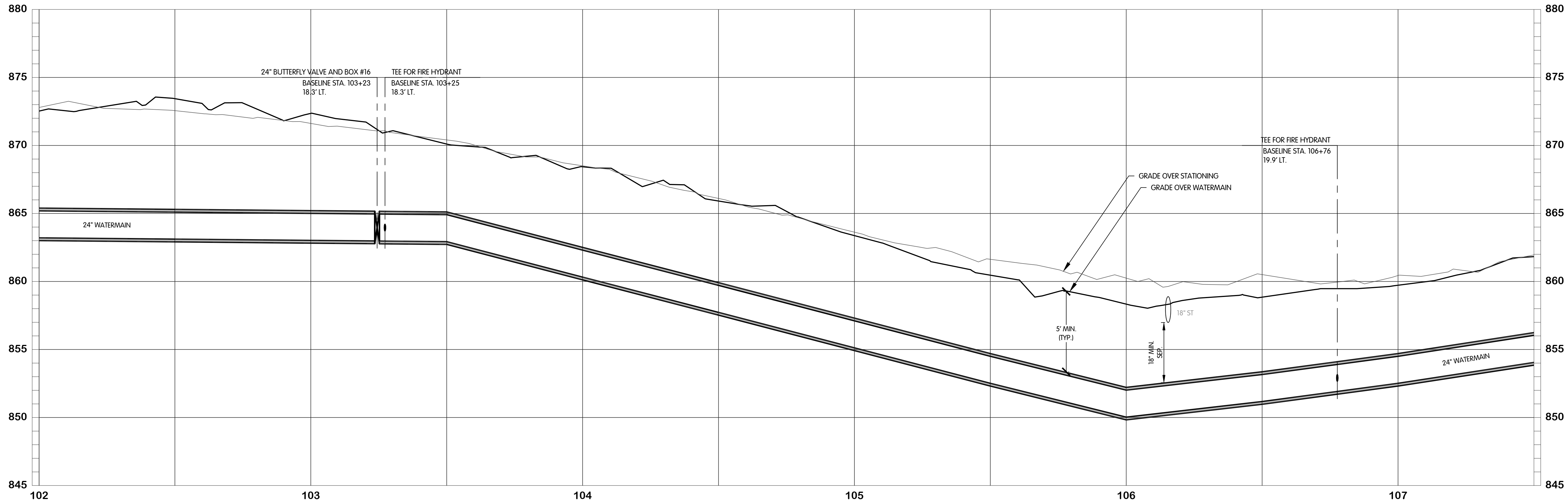
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.


N 33RD STREET
STA. 102+00 TO 107+50

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	2	EA
18" RCP Storm Sewer	6	LF
18" RCP Flared End Section	1	EA
24" Butterfly Valve	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	2	EA



KAL-7675001W20-N 33RD ST - WATER STA. 102+00-107+50
11/2/2021 4:50 PM - SWILLIS
11/19/2021 3:23 PM

NO. 1
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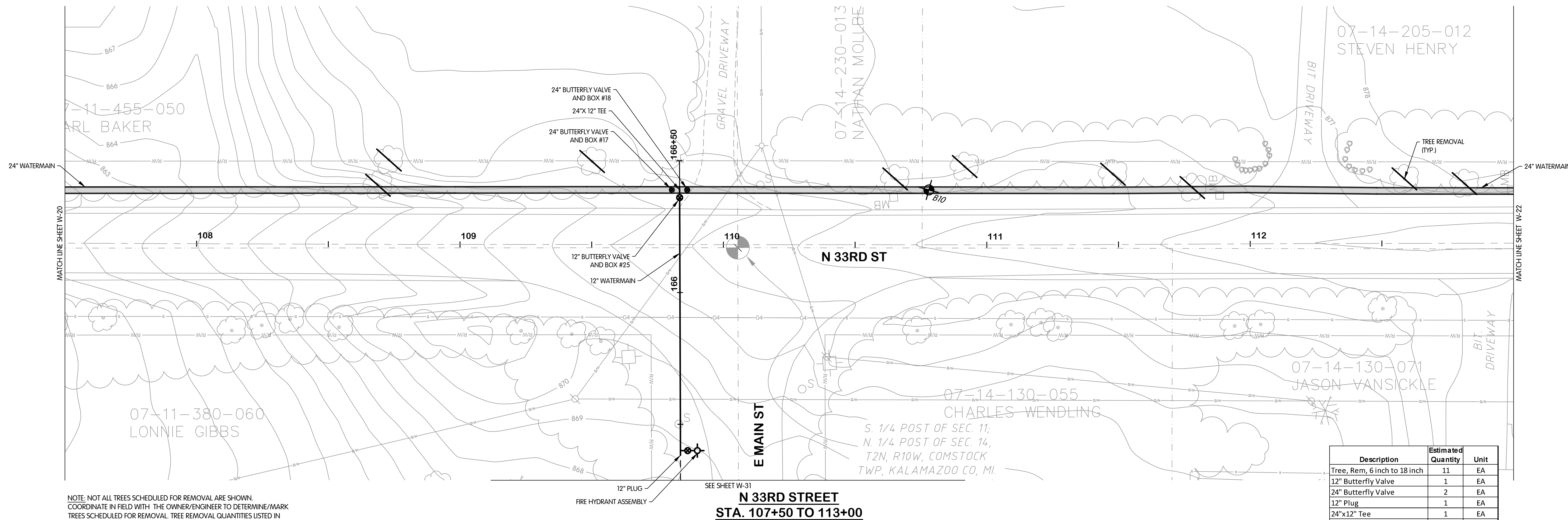
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STATUS PERMIT SET
DATE NOVEMBER, 2021
SHEET NO. W-20
24 OF 53



N 33RD STREET - WATER
PLAN & PROFILE
STA. 107+50 TO 113+00

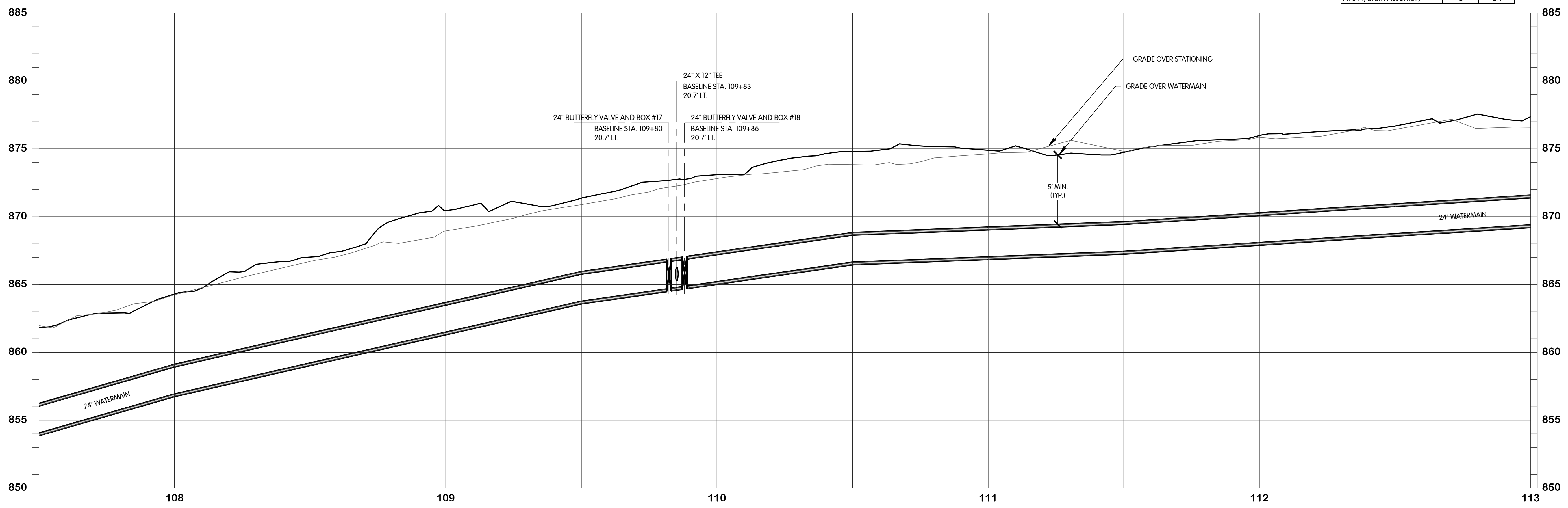
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	11	EA
12" Butterfly Valve	1	EA
24" Butterfly Valve	2	EA
12" Plug	1	EA
24"x12" Tee	1	EA
12" Watermain	99	LF
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA

N 33RD STREET
STA. 107+50 TO 113+00



KAL-7675001W2-N 33RD ST - WATER STA. 107+50-113+00
9/1/2021 1:26 PM - CFERRELL
11/19/2021 3:23 PM

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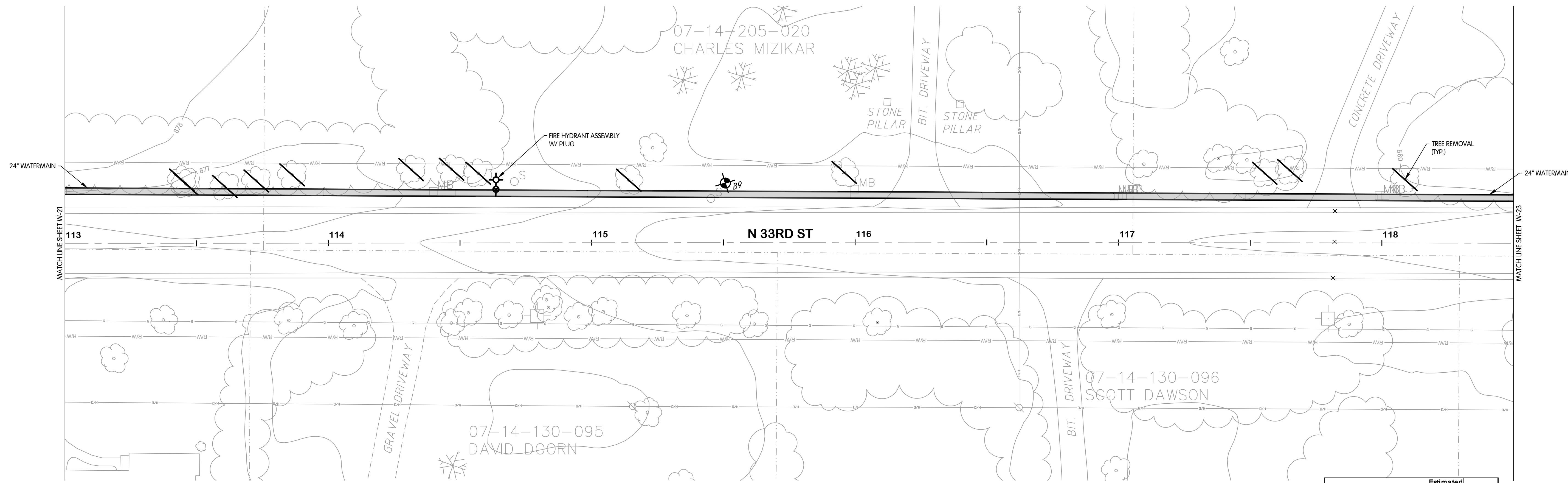
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SCALE 1" = 20'H, 1" = 4'V
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STATUS PERMIT SET
DATE NOVEMBER, 2021
SHEET NO. W-21
25 OF 53



**N 33RD STREET - WATER
PLAN & PROFILE
STA. 113+00 TO 118+50**

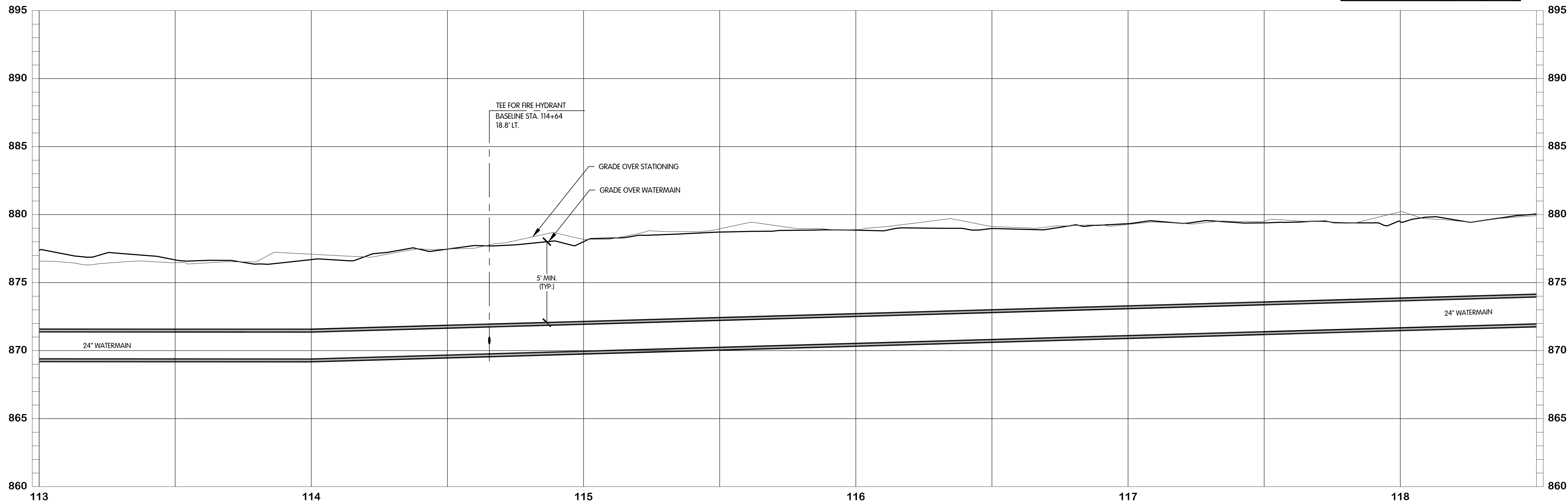
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

**N 33RD STREET
STA. 113+00 TO 118+50**

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	12	EA
Tree, Rem, 19 inch to 36 inch	1	EA
Tree, Rem, 36 inch and larger	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA



KAL-767500W2-N 33RD ST - WATER STA. 113+00-118+50
9/1/2021 1:27 PM - CFERRELL
11/19/2021 3:24 PM

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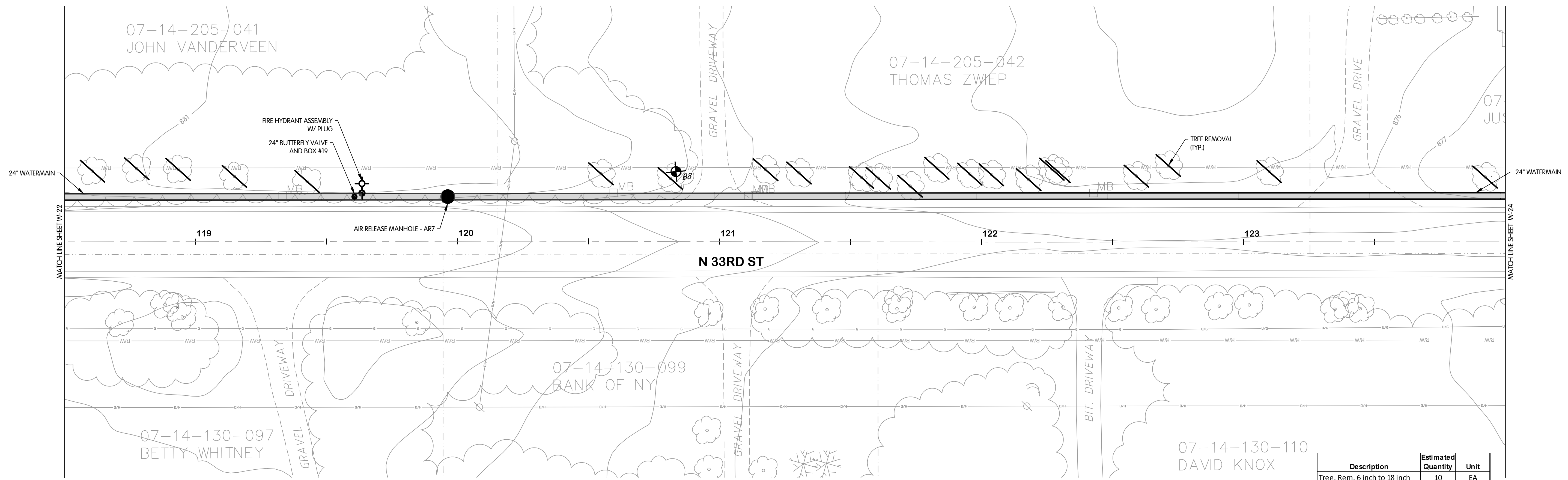
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STATUS: PERMIT SET
DATE: NOVEMBER, 2021
SHEET NO. W-22
26 OF 53



**N 33RD STREET - WATER
PLAN & PROFILE
STA. 118+50 TO 124+00**

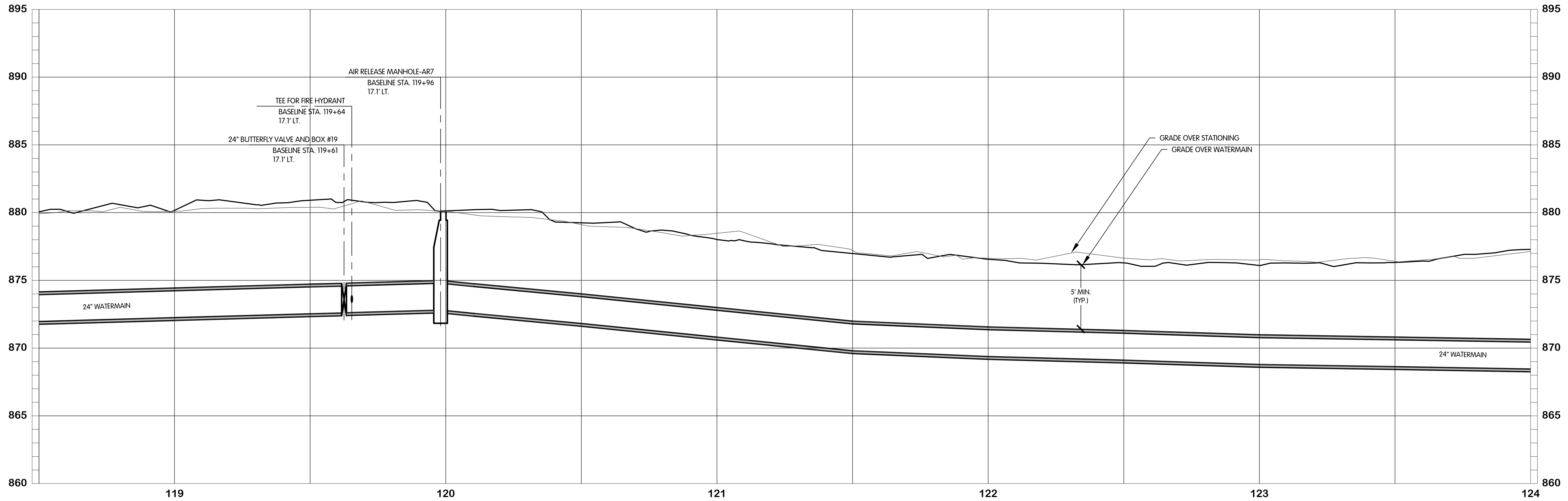
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

**N 33RD STREET
STA. 118+50 TO 124+00**

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	10	EA
Tree, Rem, 19 inch to 36 inch	6	EA
Tree, Rem, 36 inch and larger	2	EA
Air Release Manhole	1	EA
24" Butterfly Valve	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA



KAL-767500/W23-N 33RD ST - WATER STA. 118+50-124+00
9/1/2021 1:28 PM - CFERRELL
11/19/2021 3:24 PM

NO. 1 2 3 4 5 6 7 8 9 10
DATE
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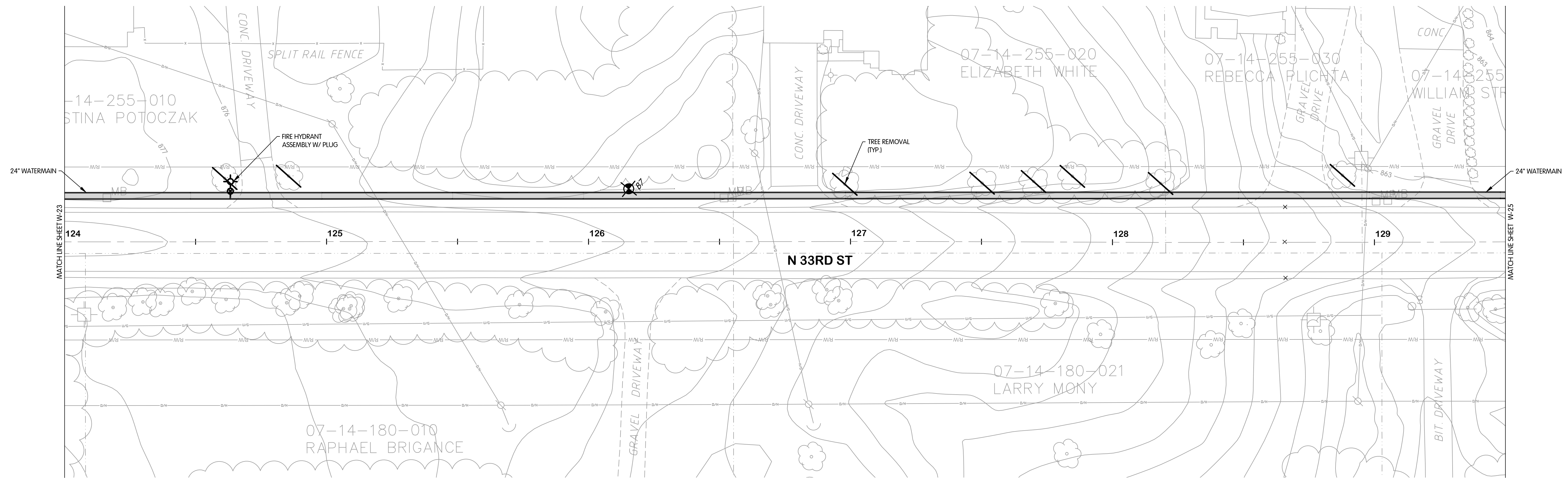
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SCALE 1" = 20'H, 1" = 4'V
THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE
DESIGNED TLK DRAWN CJAF CHECKED AJD
STATUS PERMIT SET
DATE NOVEMBER, 2021
SHEET NO. W-23
27 OF 53



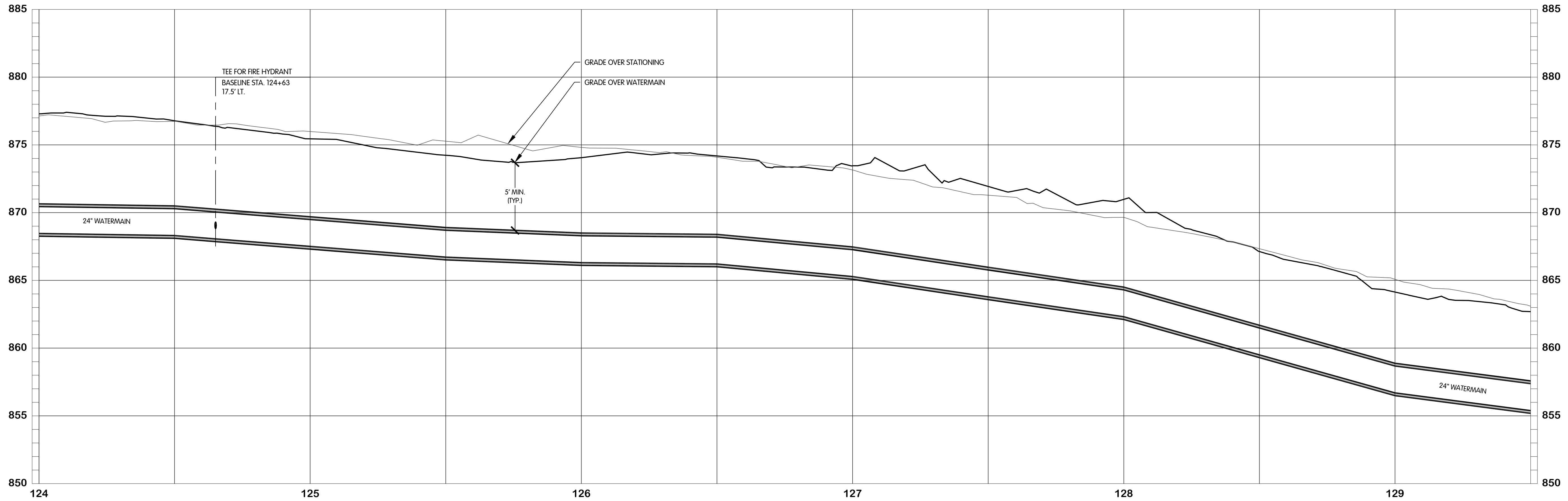
N 33RD STREET - WATER
 PLAN & PROFILE
 STA. 124+00 TO 129+50
 CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



N 33RD STREET
STA. 124+00 TO 129+50

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	1	EA
Tree, Rem, 19 inch to 36 inch	8	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN.
 COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK
 TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN
 THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED
 TO BE REMOVED.



KAL-7675001W24-N 33RD ST - WATER STA. 124+00-129+50
 9/1/2021 1:34 PM - CFERRELL
 11/19/2021 3:24 PM

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 NO. 1
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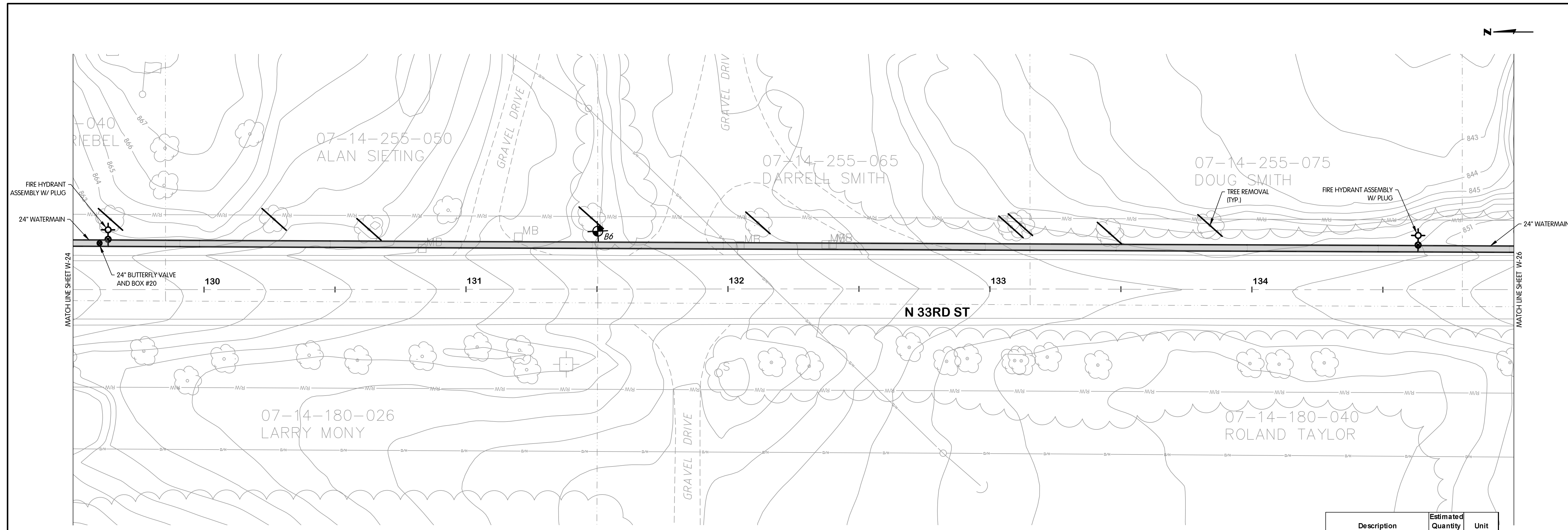
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 SCALE 1" = 20'H, 1" = 4'V
 THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE
 DESIGNED TLK DRAWN CJAF CHECKED AJD
 STATUS PERMIT SET
 DATE NOVEMBER, 2021
 SHEET NO. W-24
 28 OF 53



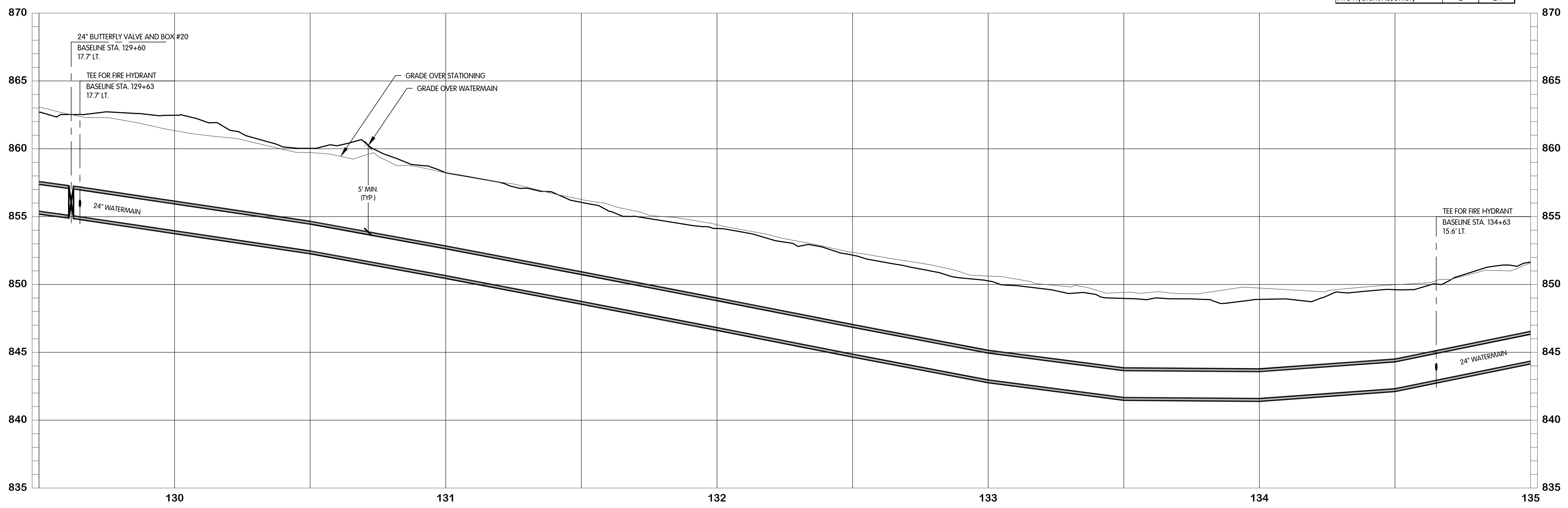
N 33RD STREET - WATER PLAN & PROFILE
STA. 129+50 TO 135+00
 CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



N 33RD STREET
STA. 129+50 TO 135+00

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	2	EA
Tree, Rem, 19 inch to 36 inch	3	EA
Tree, Rem, 36 inch and larger	1	EA
24" Butterfly Valve	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	2	EA

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.



KAL-767500W25-N 33RD ST - WATER STA. 129+50-135+00
 9/1/2021 1:37 PM - CFERRELL
 11/19/2021 3:24 PM

REVISIONS AFTER ISSUED FOR BID
 NO. 1
 DATE

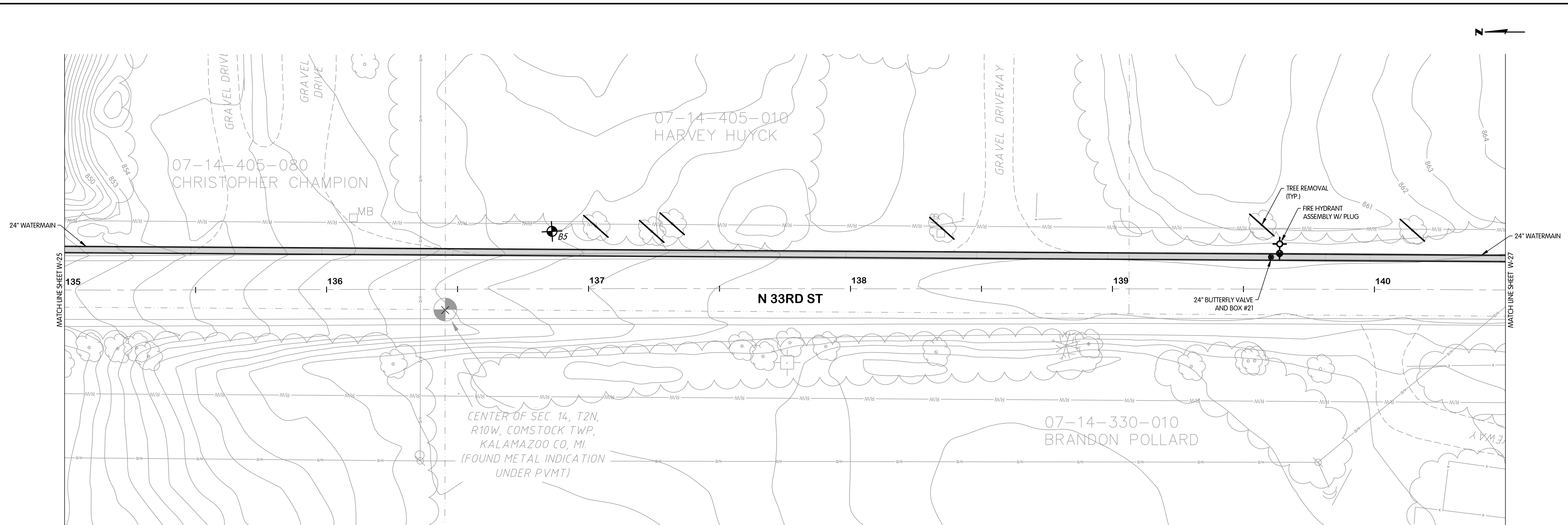
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JOB NO. 017-7675.001
 SCALE 1" = 20'H, 1" = 4'V
 THIS LINE SCALES V WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
TLK	CJAF	AJD

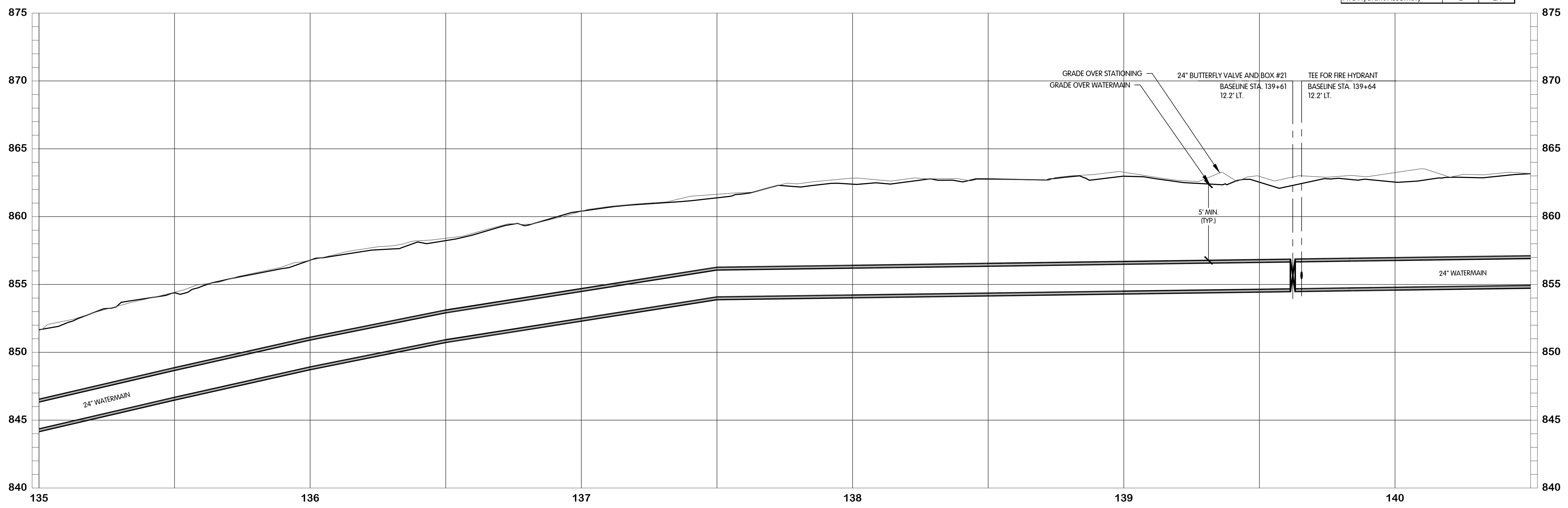
 STATUS: PERMIT SET
 DATE: NOVEMBER, 2021
 SHEET NO.
W-25
 29 OF 53



**N 33RD STREET
STA. 135+00 TO 140+50**

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

Description	Estimated Quantity	Unit
Tree, Rem, 6 inch to 18 inch	13	EA
24" Butterfly Valve	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA



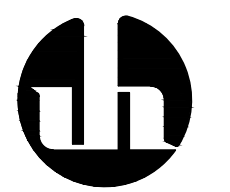
KAL-7675001W26-N 33RD ST - WATER STA. 135+00-140+50
9/1/2021 1:38 PM - CFERRELL
11/19/2021 3:25 PM



**N 33RD STREET - WATER
PLAN & PROFILE
STA. 135+00 TO 140+50**

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

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JOB NO. 017-7675.001

SCALE 1" = 20'H, 1" = 4'V

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DESIGNED TLK	DRAWN CJAF	CHECKED AJD
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STATUS: PERMIT SET
DATE: NOVEMBER, 2021

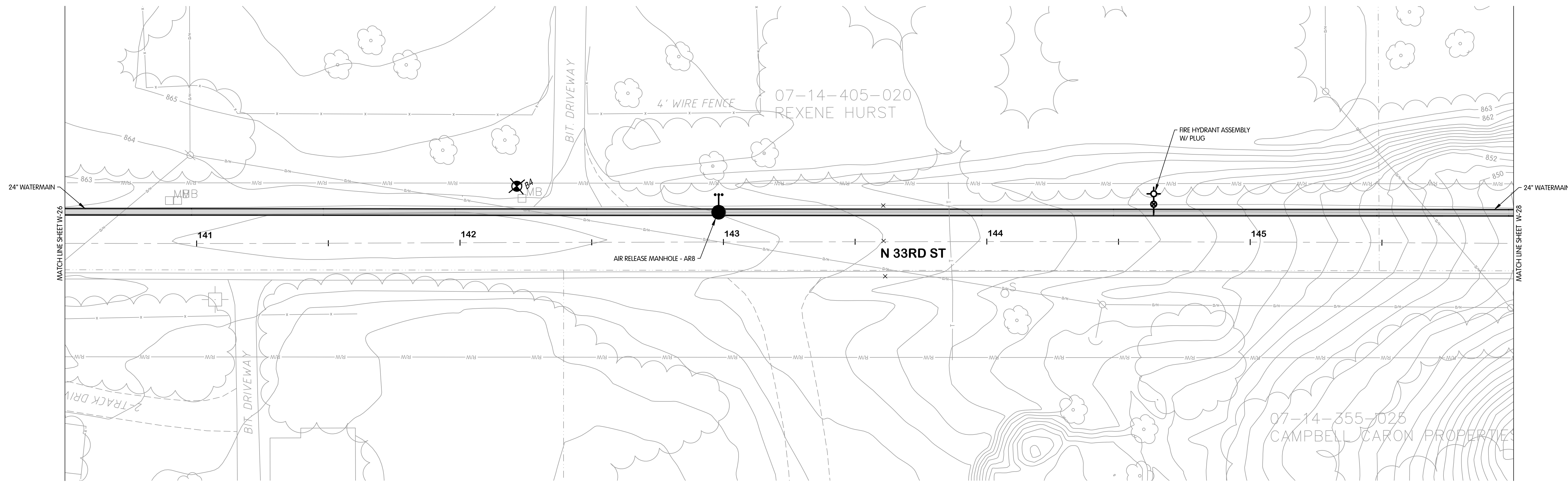
SHEET NO.
W-26

30 OF 53



N 33RD STREET - WATER
PLAN & PROFILE
STA. 140+50 TO 146+00

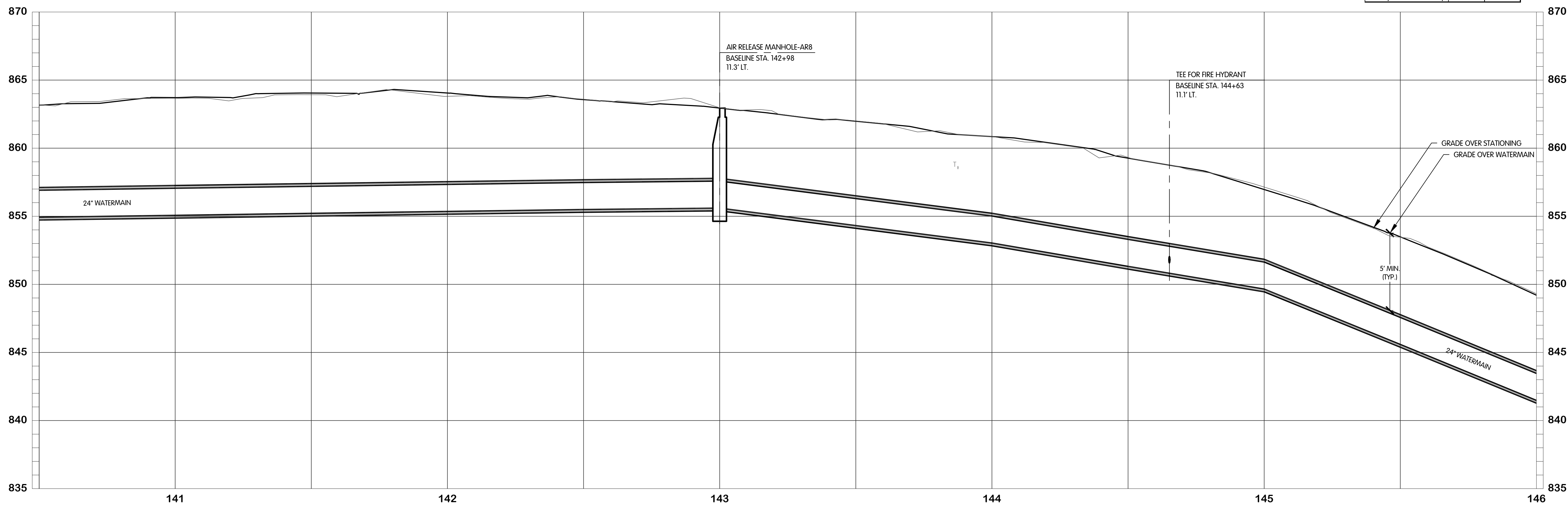
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



N 33RD STREET
STA. 140+50 TO 146+00


Description	Estimated Quantity	Unit
Air Release Manhole	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

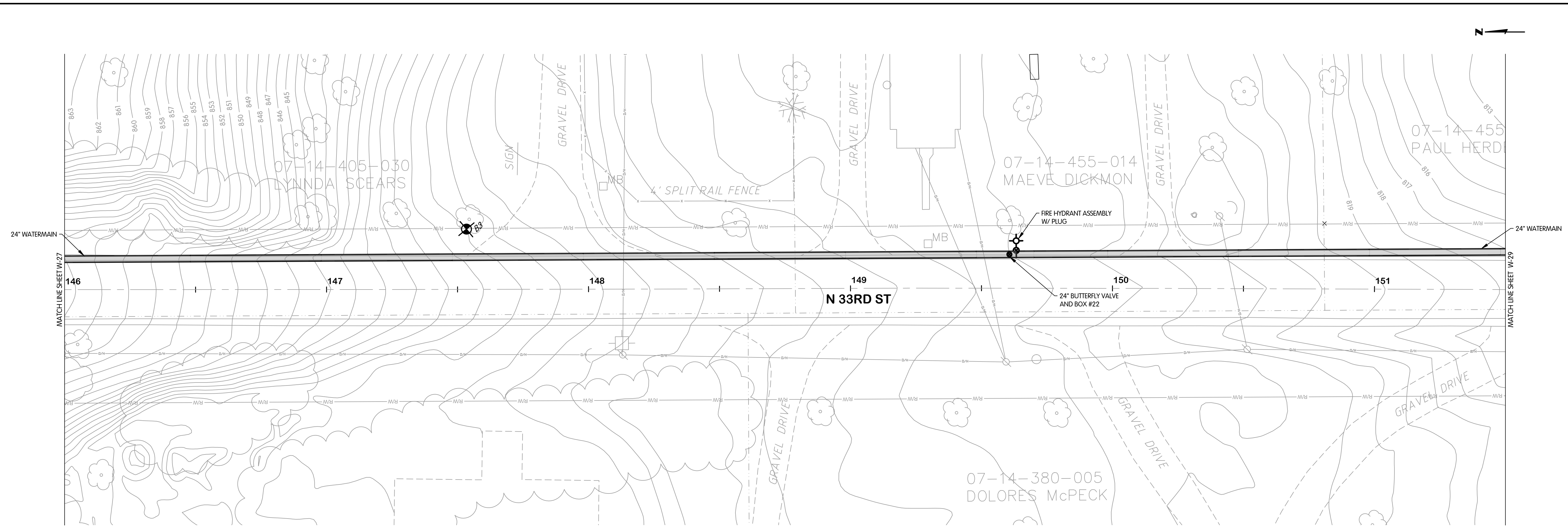


KAL-7675001W2-N 33RD ST - WATER STA. 140+50-146+00
9/1/2021 1:46 PM - CFERRILL
11/19/2021 3:25 PM

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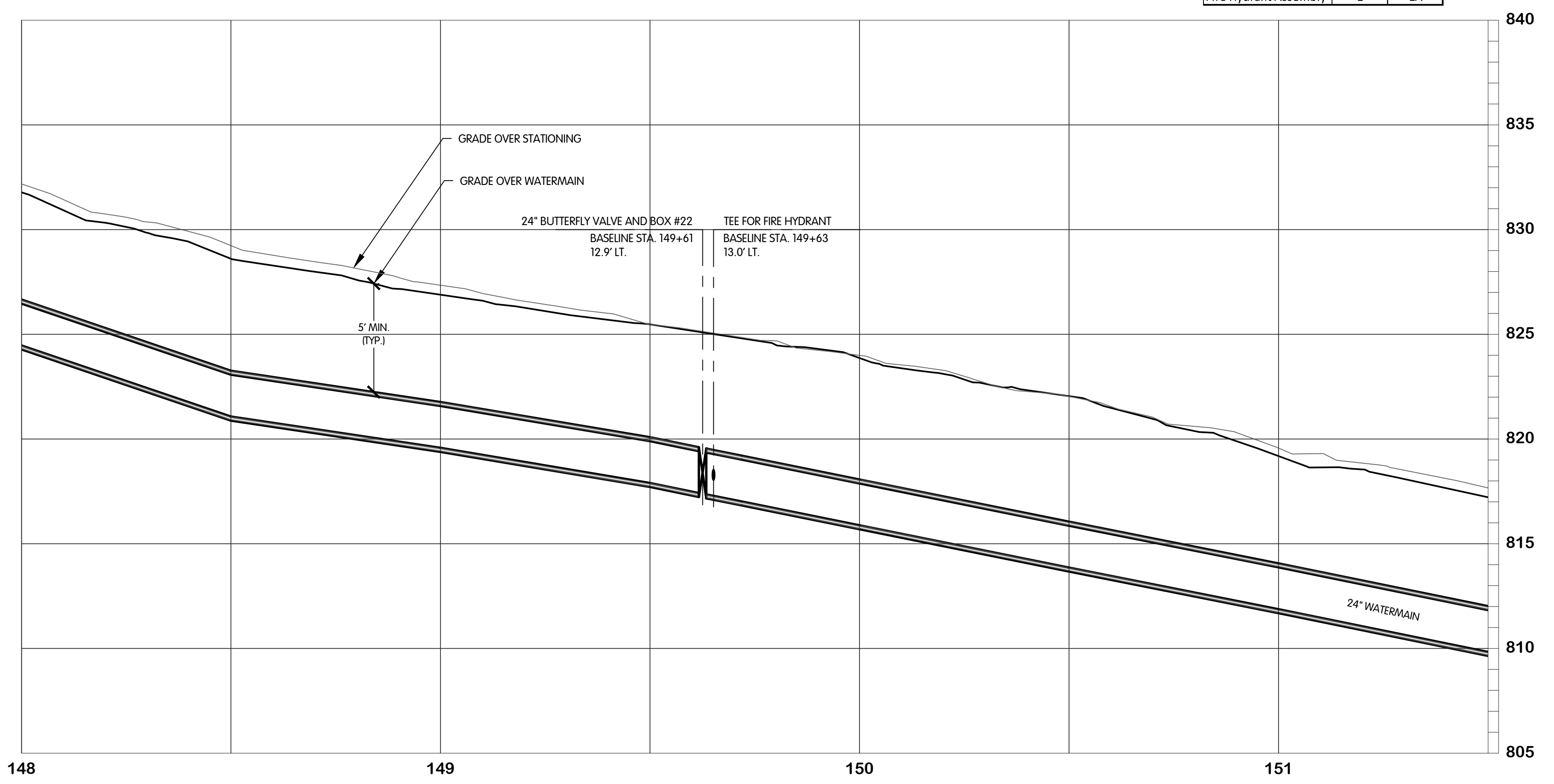
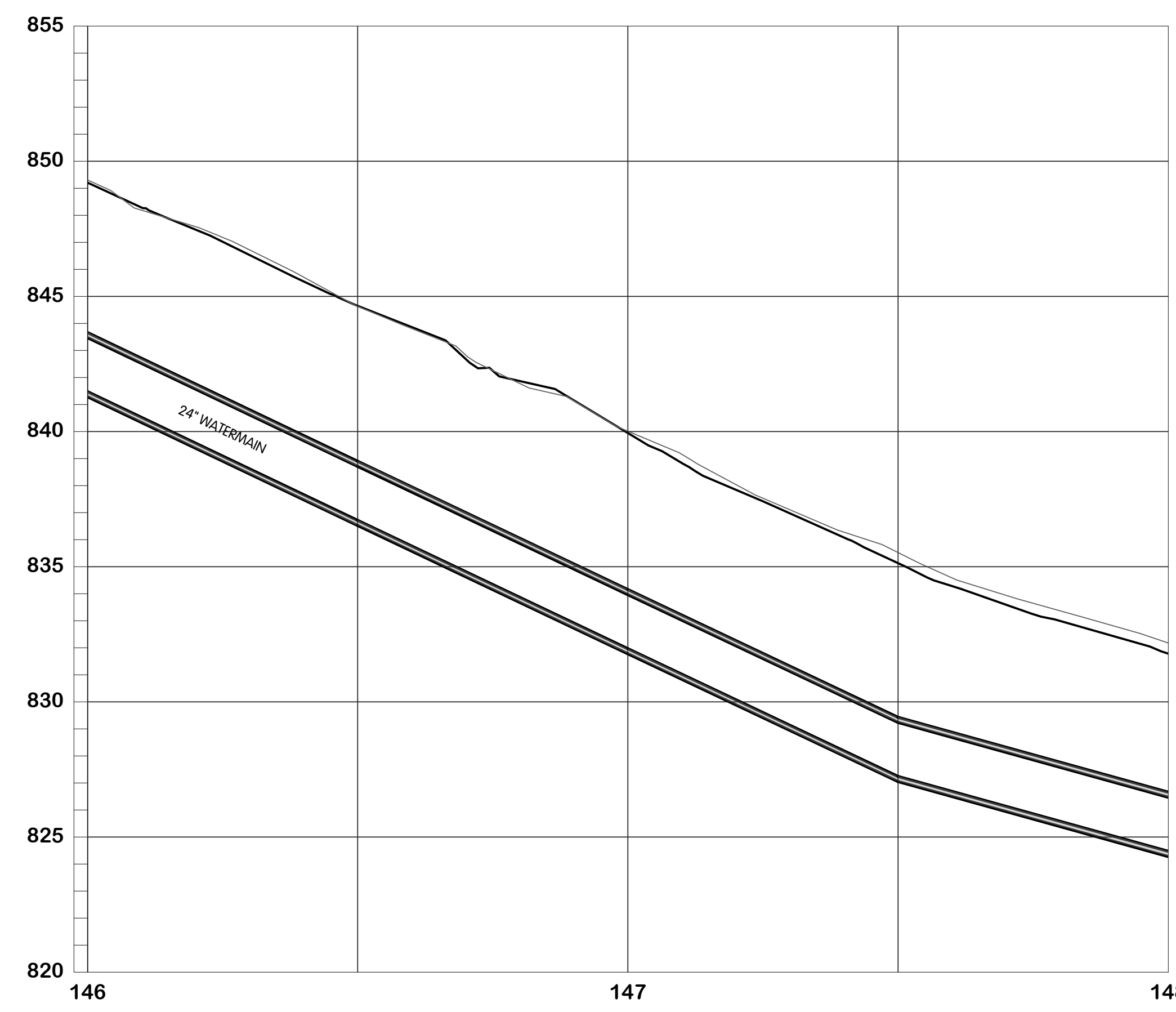
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DATE NOVEMBER, 2021
SHEET NO. W-27
31 OF 53



**N 33RD STREET
STA. 146+00 TO 151+50**

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.

Description	Estimated Quantity	Unit
24" Butterfly Valve	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA



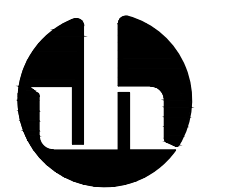
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9/1/2021 1:47 PM - CFERRELL
11/19/2021 3:25 PM



**N 33RD STREET - WATER
PLAN & PROFILE
STA. 146+00 TO 151+50**

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

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TLK	CJAF	AJD

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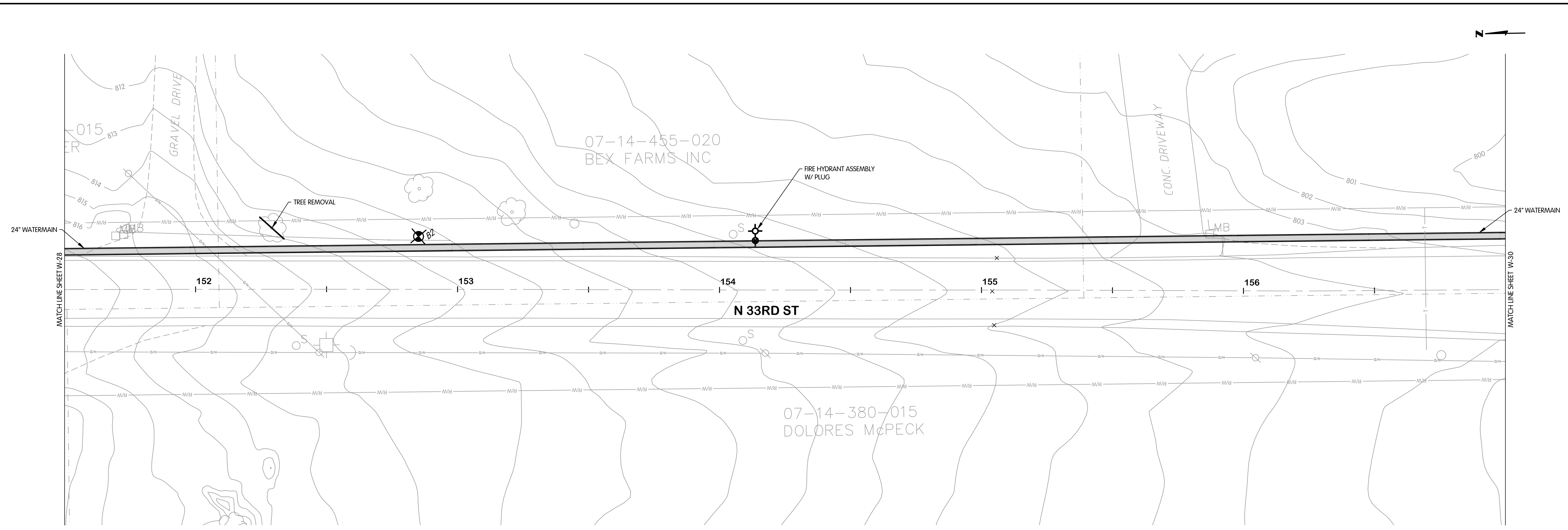
SHEET NO. W-28

32 OF 53



**N 33RD STREET - WATER
PLAN & PROFILE
STA. 151+50 TO 157+00**

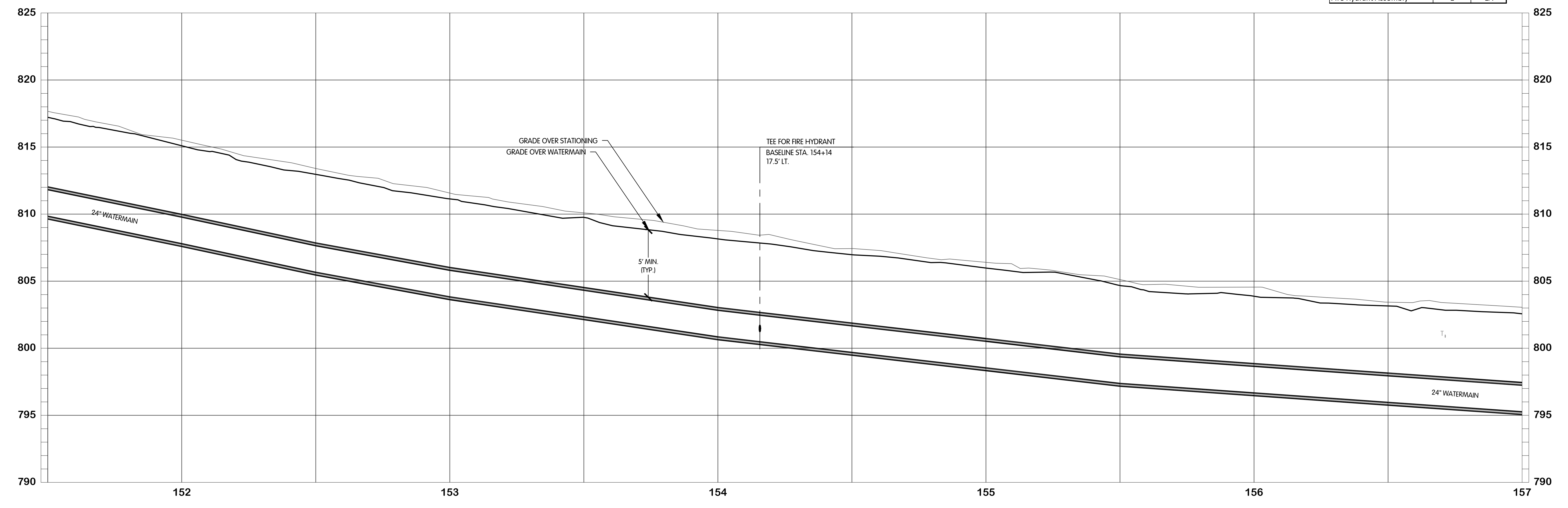
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



**N 33RD STREET
STA. 151+50 TO 157+00**

Description	Estimated Quantity	Unit
Tree, Rem, 19 inch to 36 inch	1	EA
24" Watermain	550	LF
Fire Hydrant Assembly	1	EA

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN. COORDINATE IN FIELD WITH THE OWNER/ENGINEER TO DETERMINE/MARK TREES SCHEDULED FOR REMOVAL. TREE REMOVAL QUANTITIES LISTED IN THE QUANTITIES TABLE REPRESENT THE ACTUAL QUANTITIES SCHEDULED TO BE REMOVED.



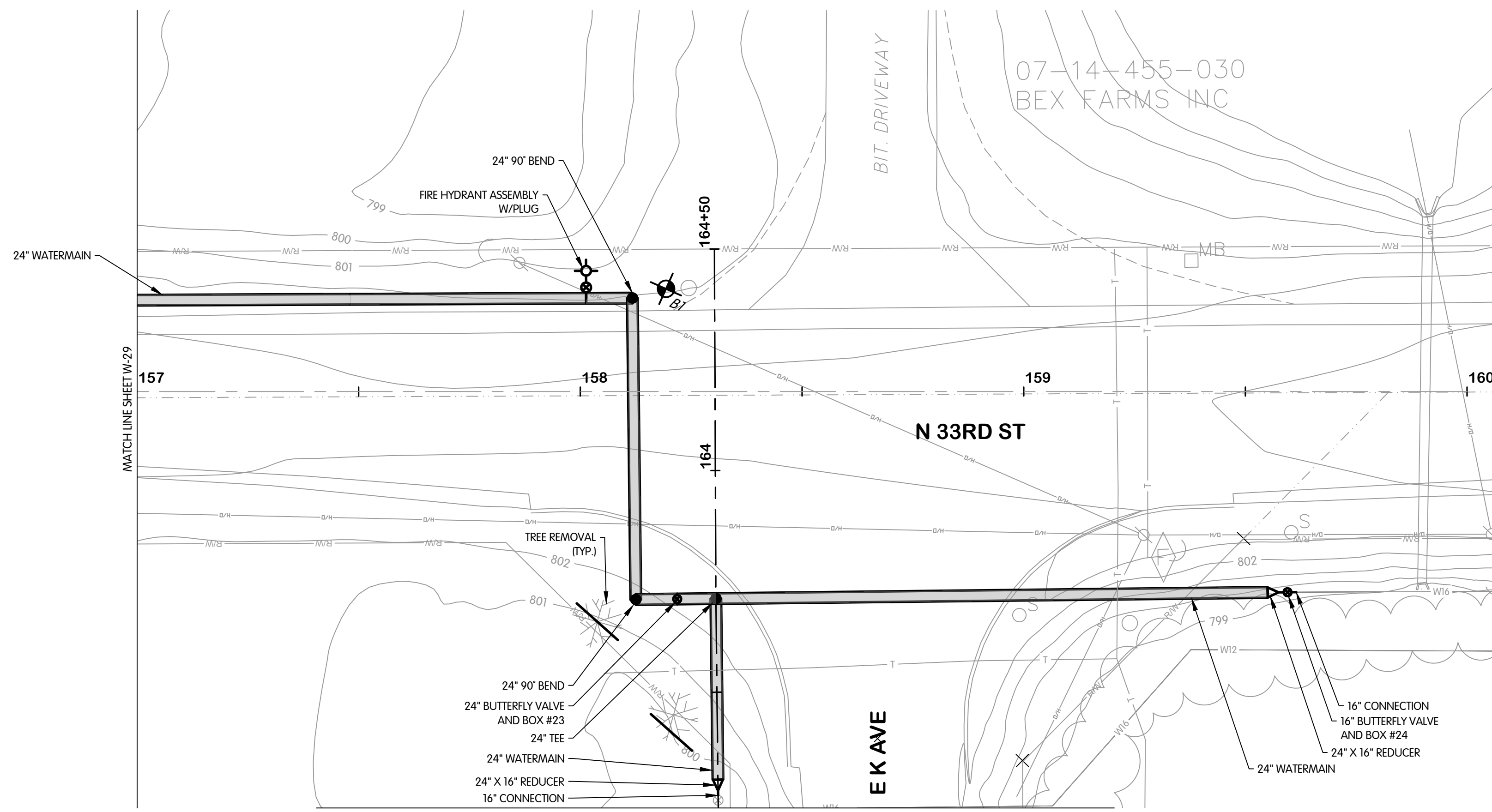
KAL-7675001W29-N 33RD ST - WATER STA 151+50-157+00
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11/19/2021 3:25 PM

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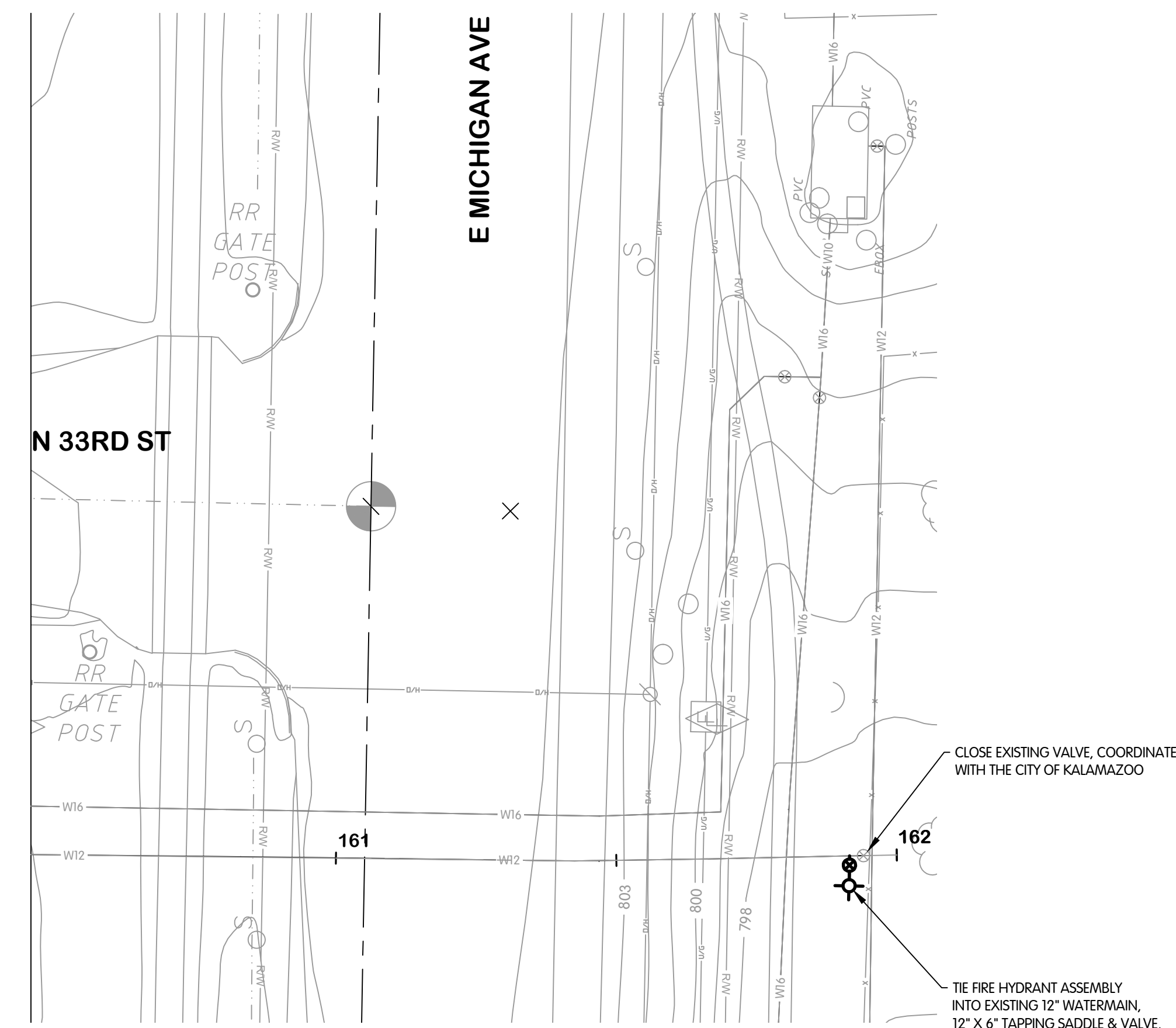
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SHEET NO. W-29
33 OF 53



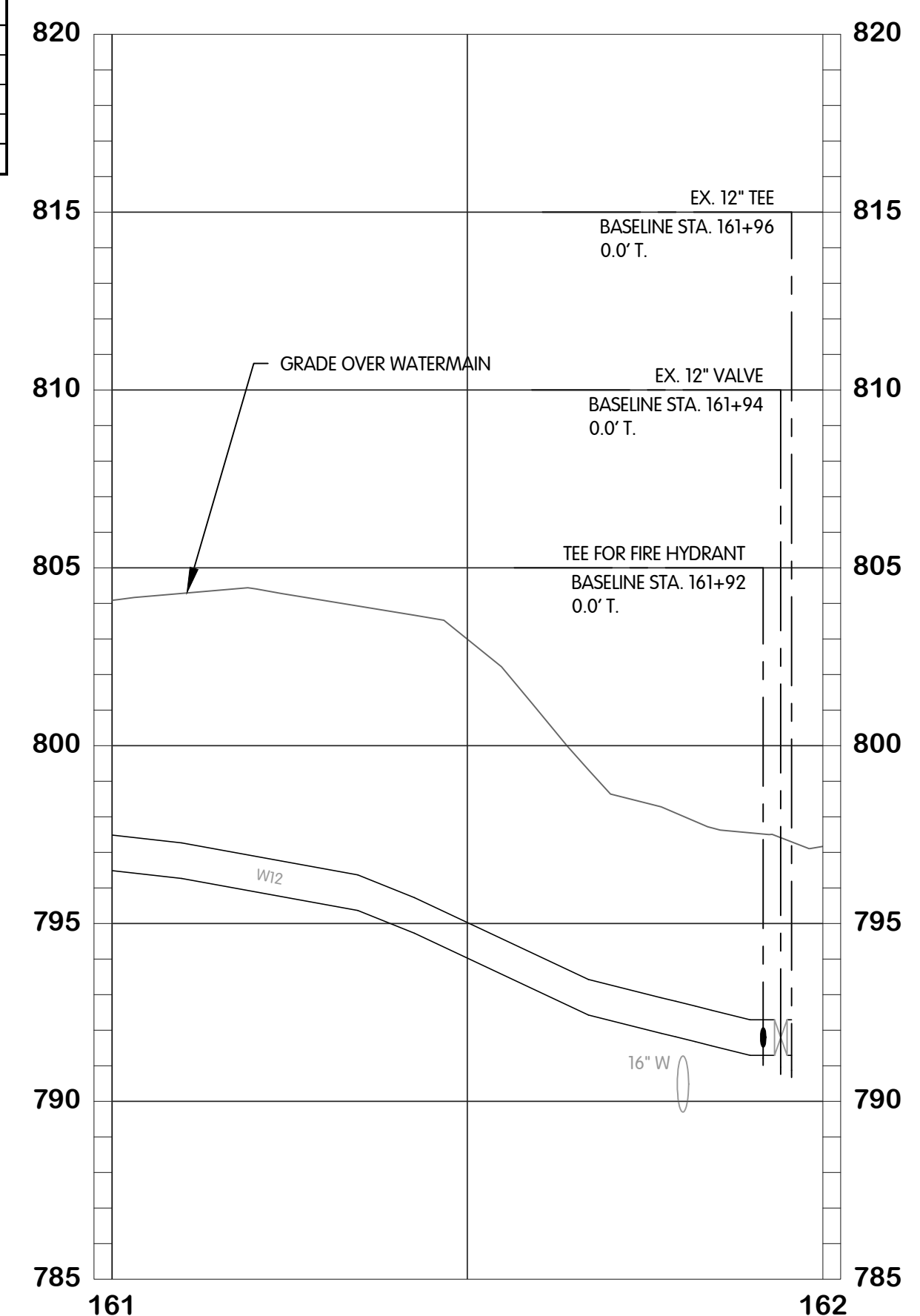
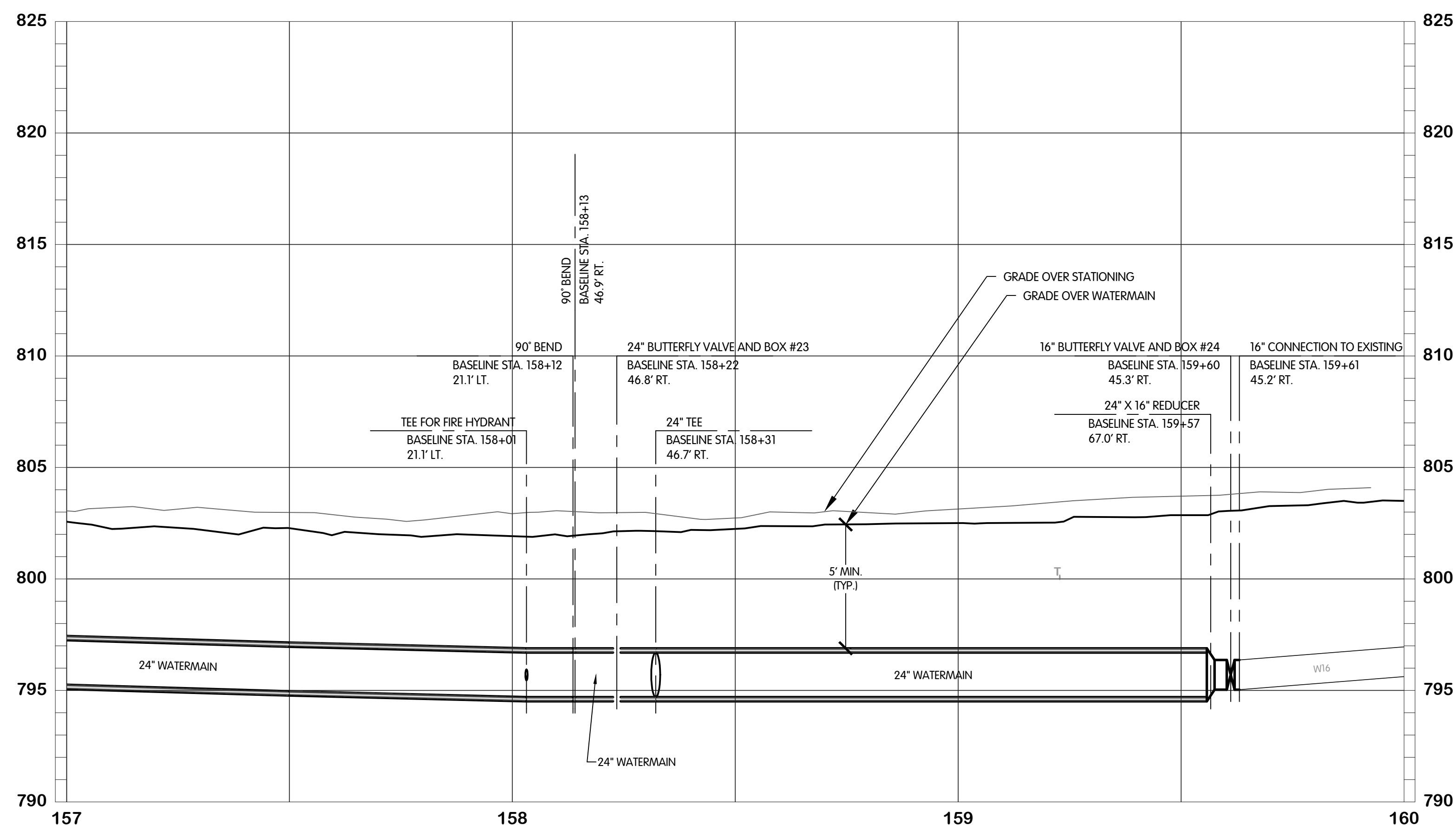
**N 33RD STREET
STA. 157+00 TO 160+00**

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**N 33RD STREET
STA. 161+00 TO 162+00**

Description	Estimated Quantity	Unit
24" 90° Bend	2	EA
16" Butterfly Valve	1	EA
24" Butterfly Valve	1	EA
16" Connection	2	EA
24"x16" Reducer	2	EA
24" Tee	1	EA
24" Watermain	366	LF
Fire Hydrant Assembly	2	EA
12"x6" Tapping Saddle & valve	1	EA



KAL-767500(W30)-N 33RD ST - WATER STA 157+00-160+00 & 161+00-162+00
9/2/2021 2:04 PM - CERRELL
11/19/2021 3:26 PM



N 33RD STREET - WATER
PLAN & PROFILE
STA. 157+00 TO 160+00 & 161+00 TO 162+00
CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

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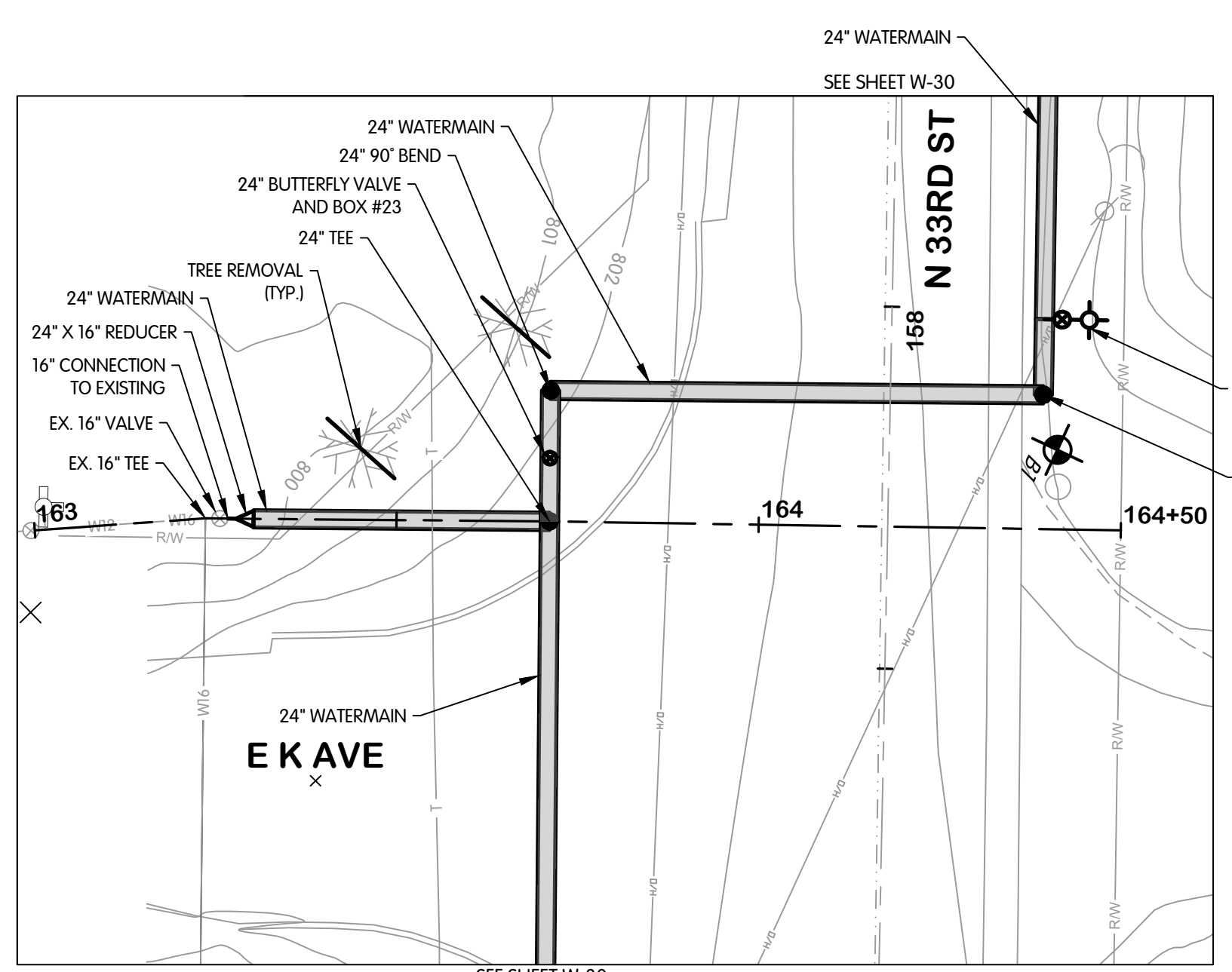
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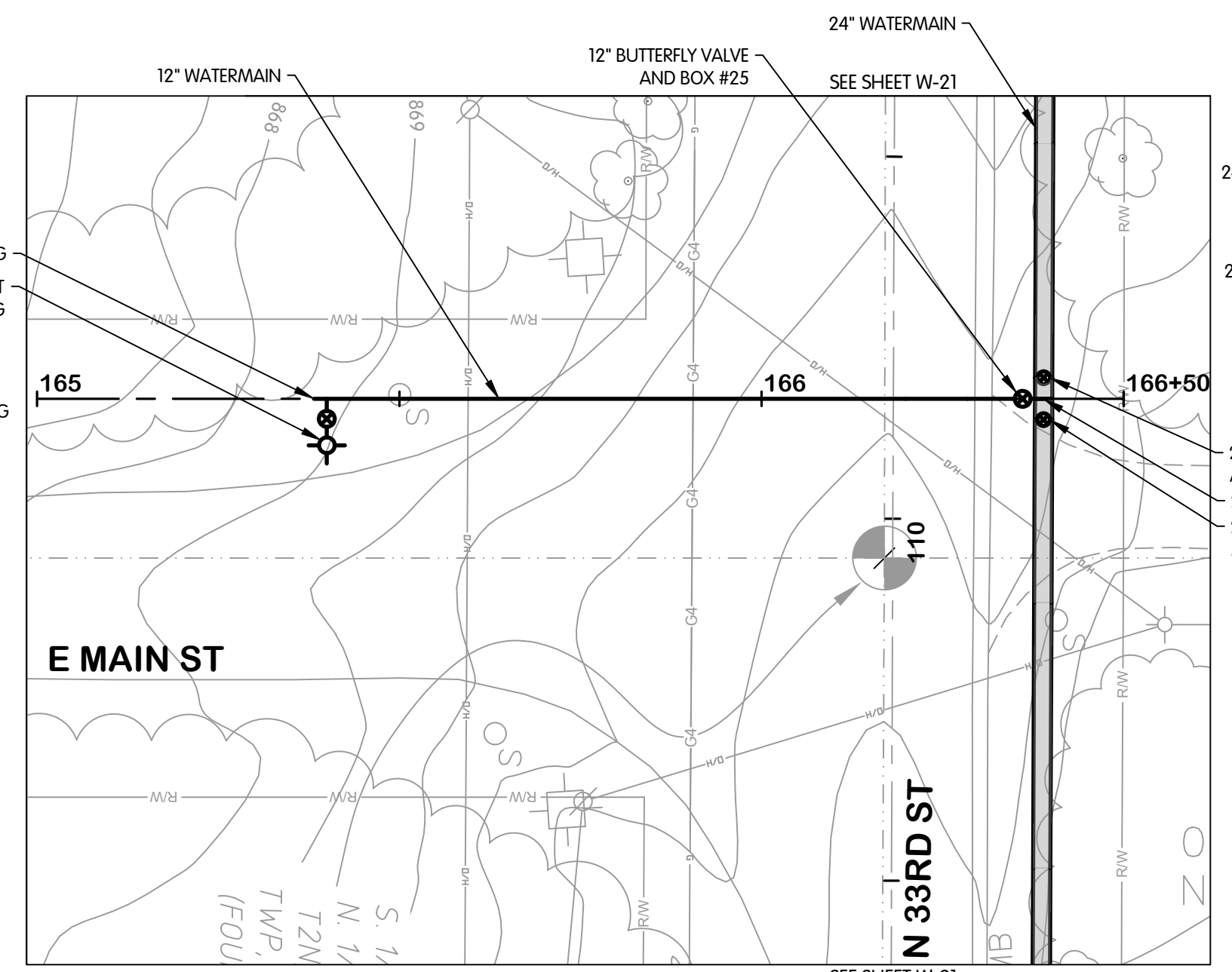
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DESIGNED TLK DRAWN CJAF CHECKED AJD
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DATE NOVEMBER, 2021
SHEET NO. W-30
34 OF 53



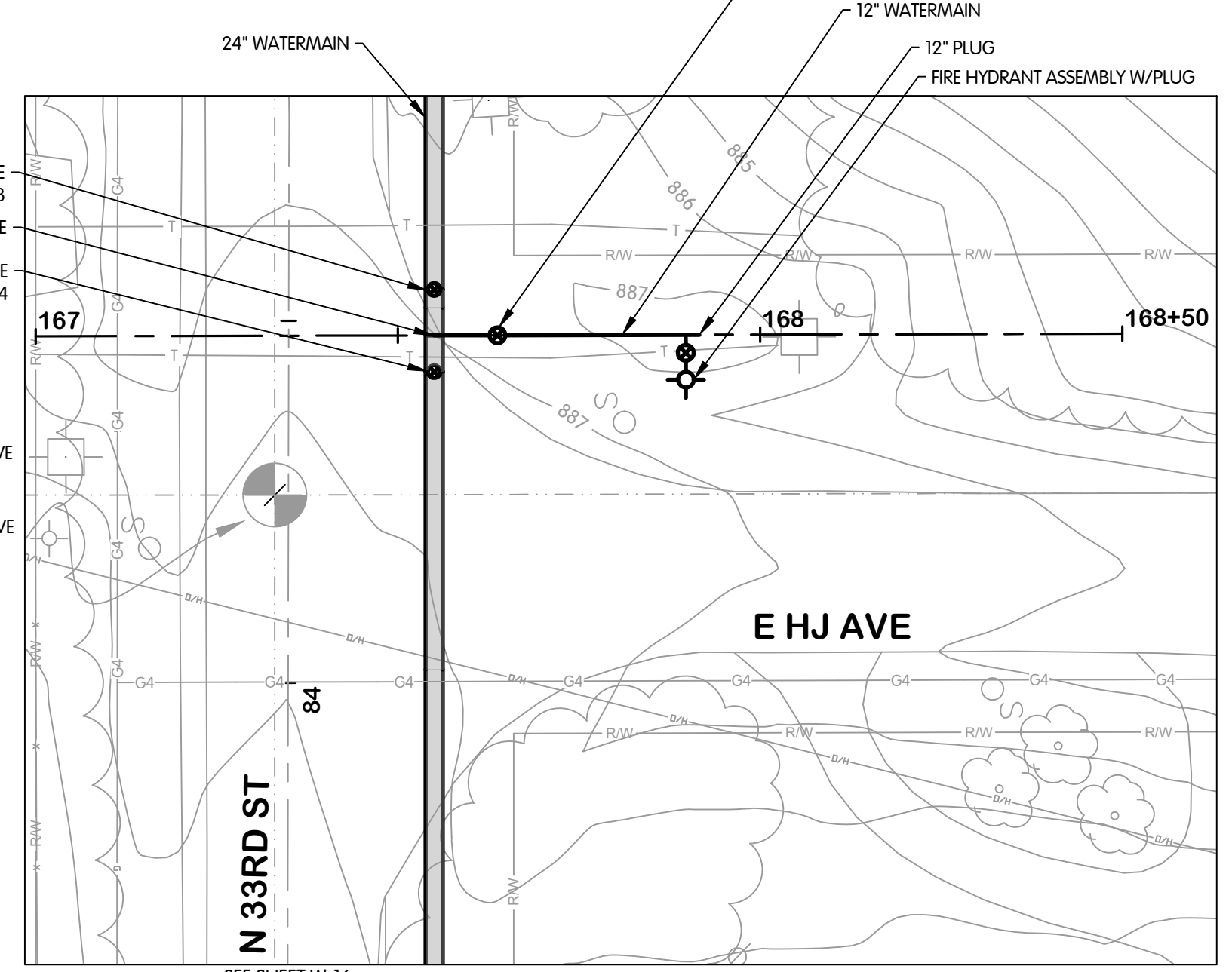
E K AVE, E MAIN ST, &
 E HJ AVE - WATER
 PLAN & PROFILE
 CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



E K AVENUE
 STA. 163+00 TO 164+50

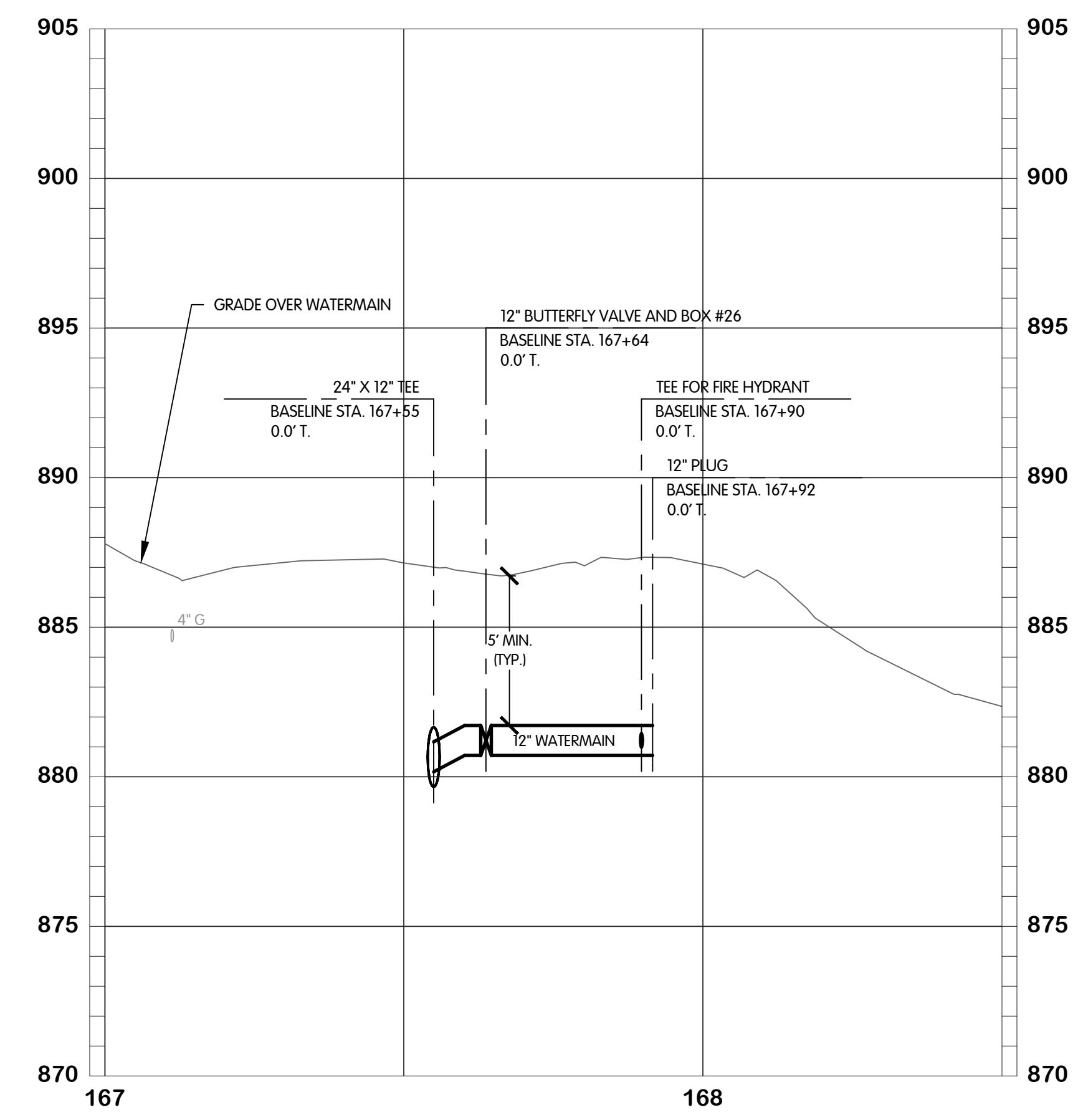
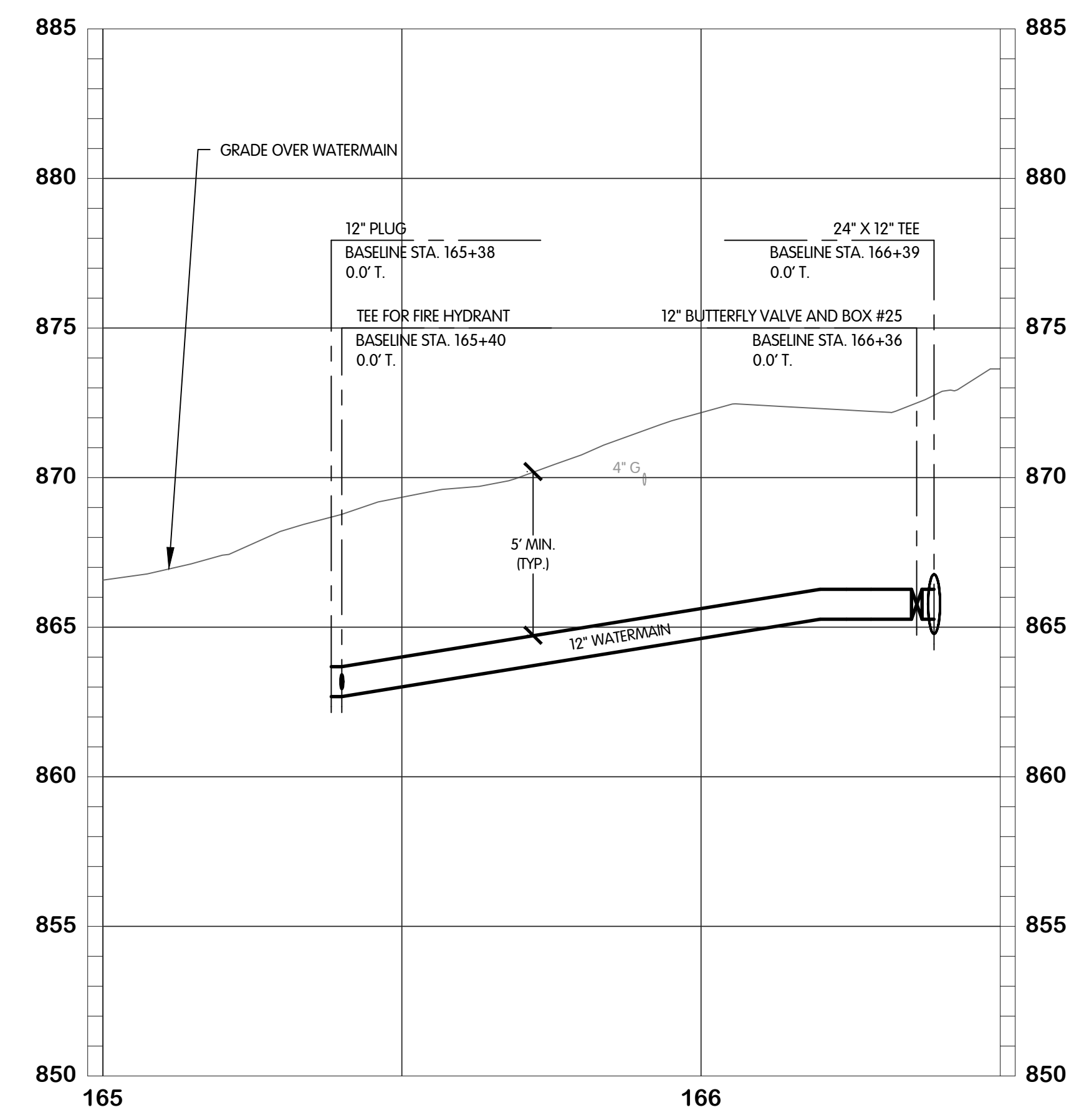
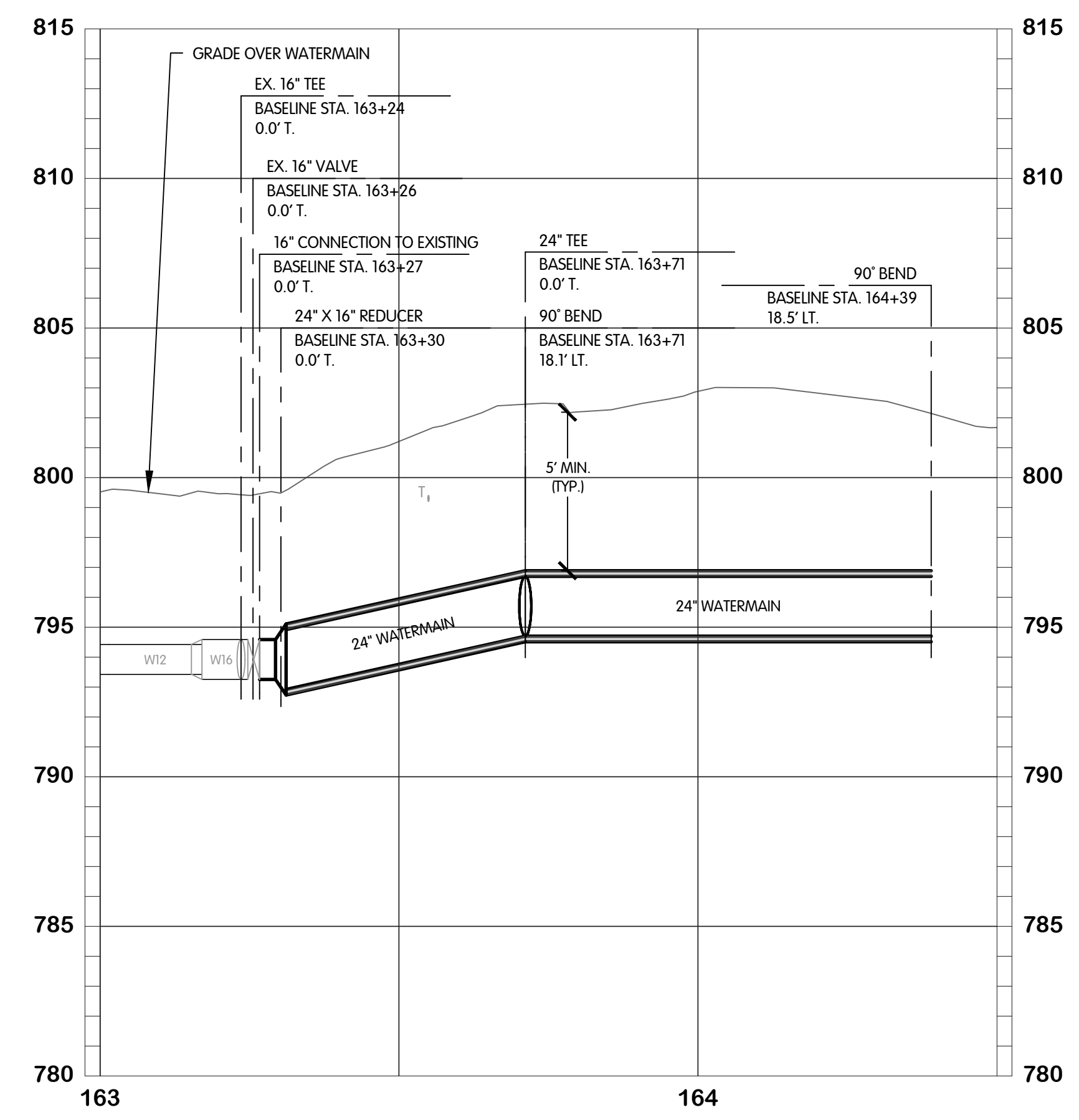


E MAIN STREET
 STA. 165+00 TO 166+50



E HJ AVENUE
 STA. 167+00 TO 168+50

NOTE: NOT ALL TREES SCHEDULED FOR REMOVAL ARE SHOWN.
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 TO BE REMOVED.



KAL-767500(W3)-E K AVE, E MAIN ST & E HJ AVE - WATER
 9/1/2021 2:28 PM - CFERRELL
 11/19/2021 3:26 PM

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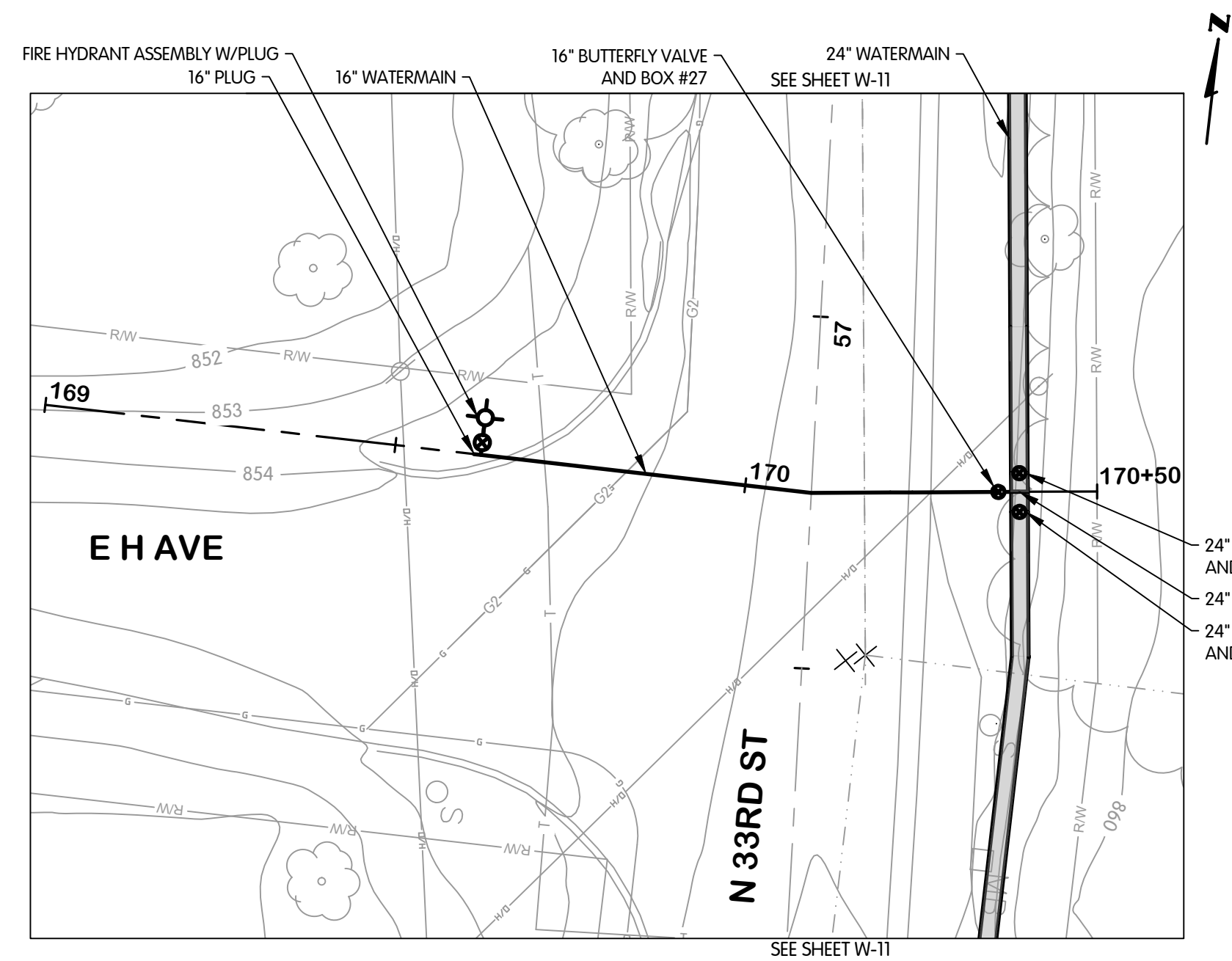
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 SHEET NO.
W-31
 35 OF 53

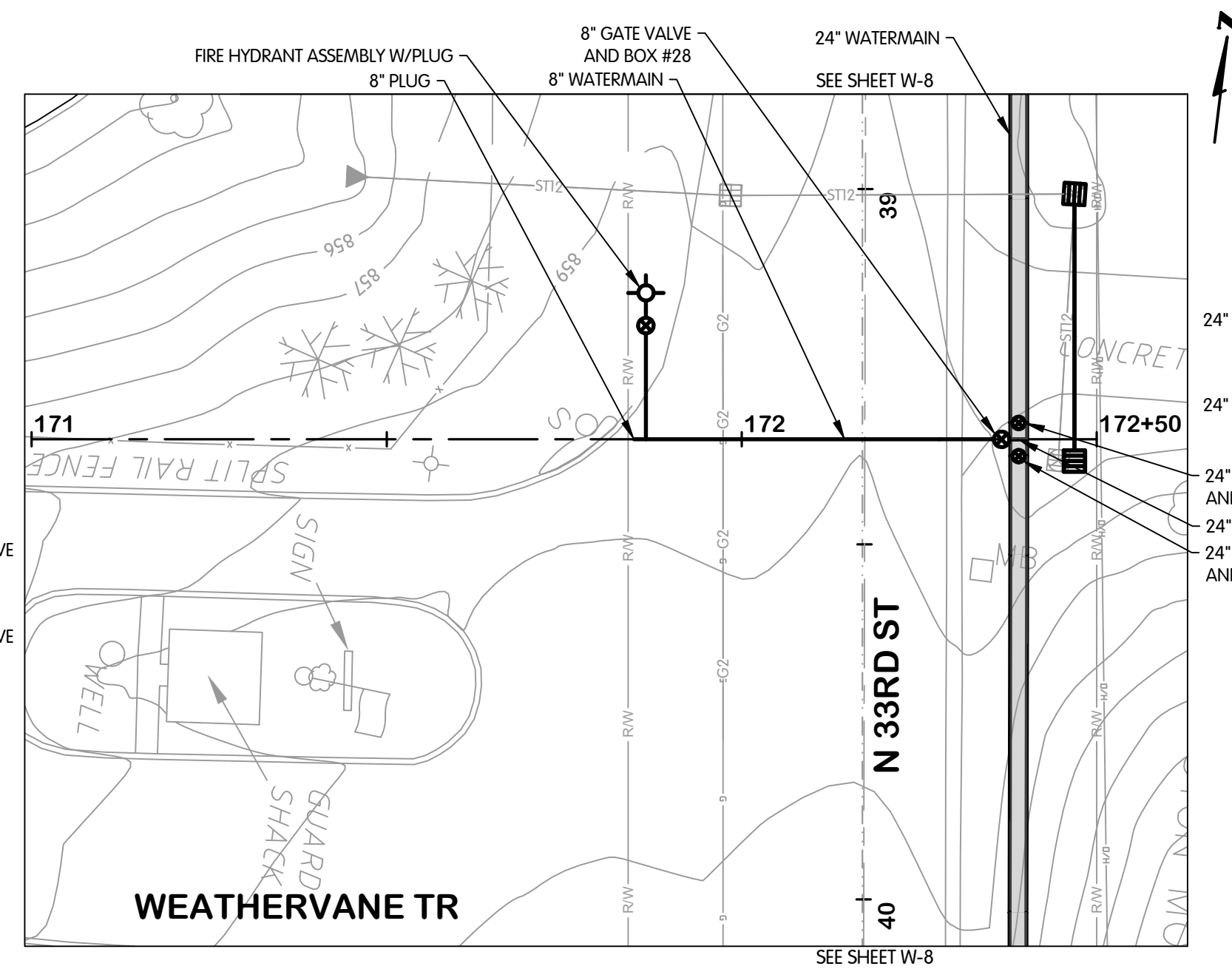


E H AVE, WEATHERVANE TR, &
 DAYLILY LN - WATER
 PLAN & PROFILE
 CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

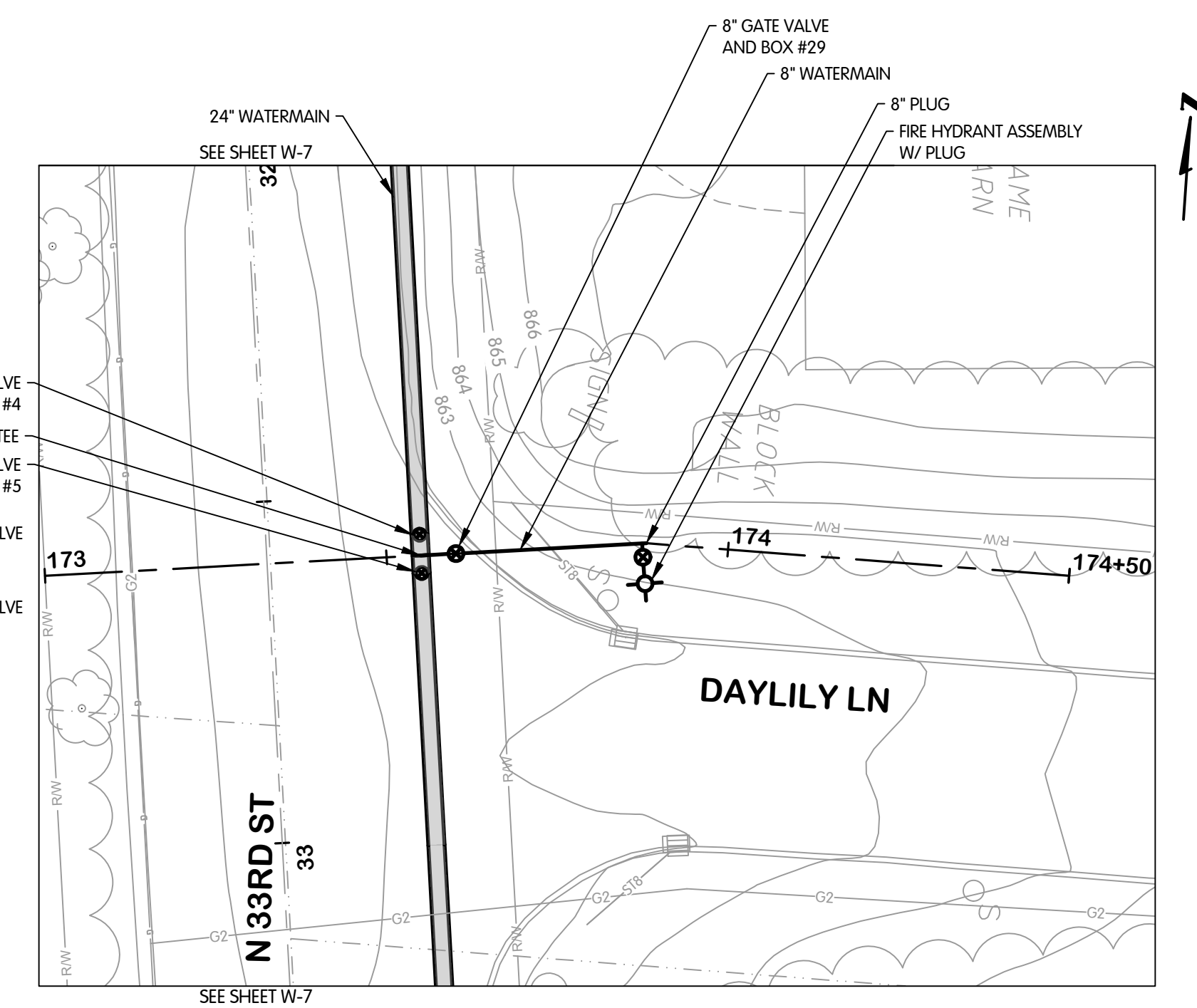


E H AVENUE
STA. 169+00 TO 170+50

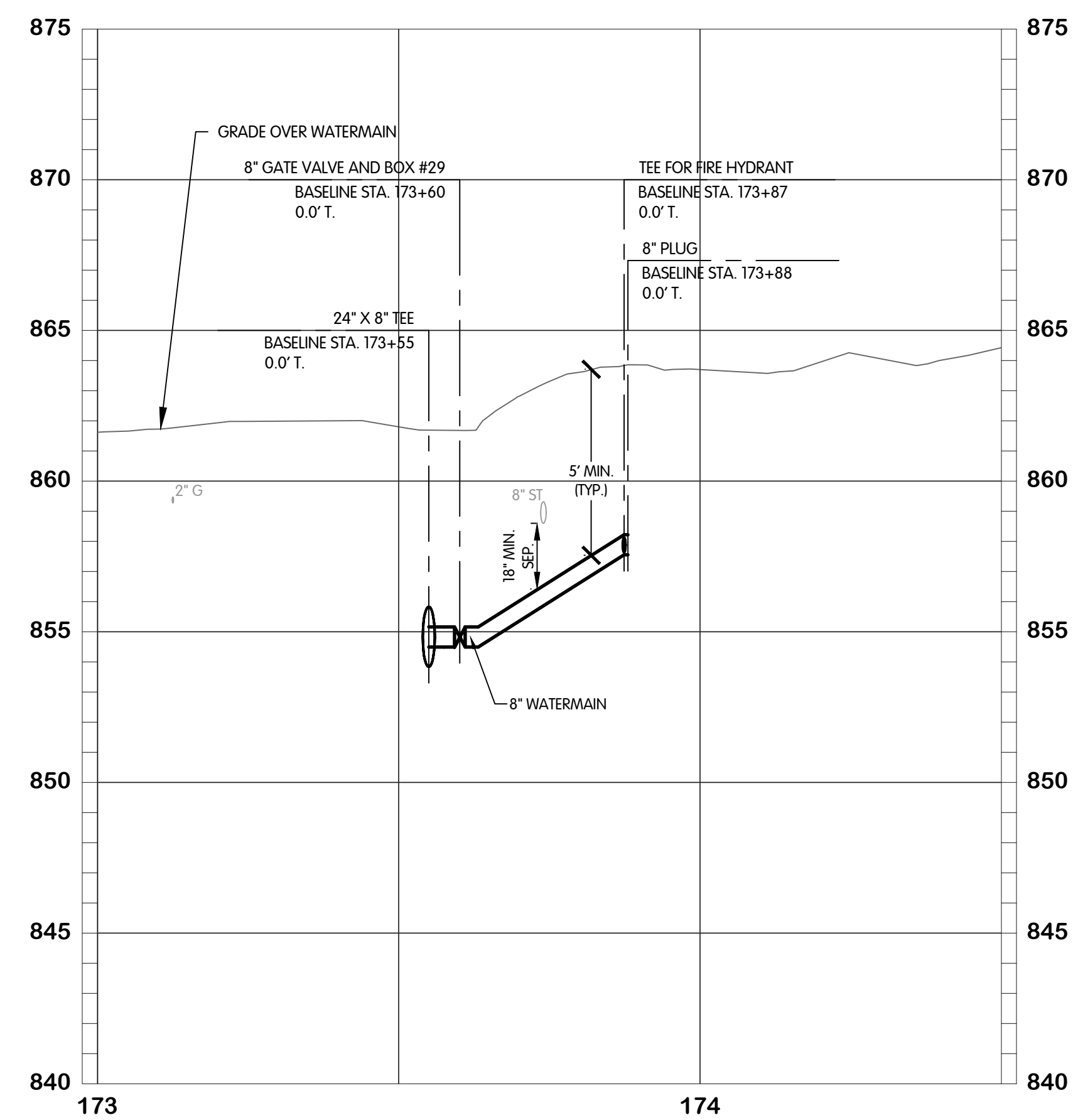
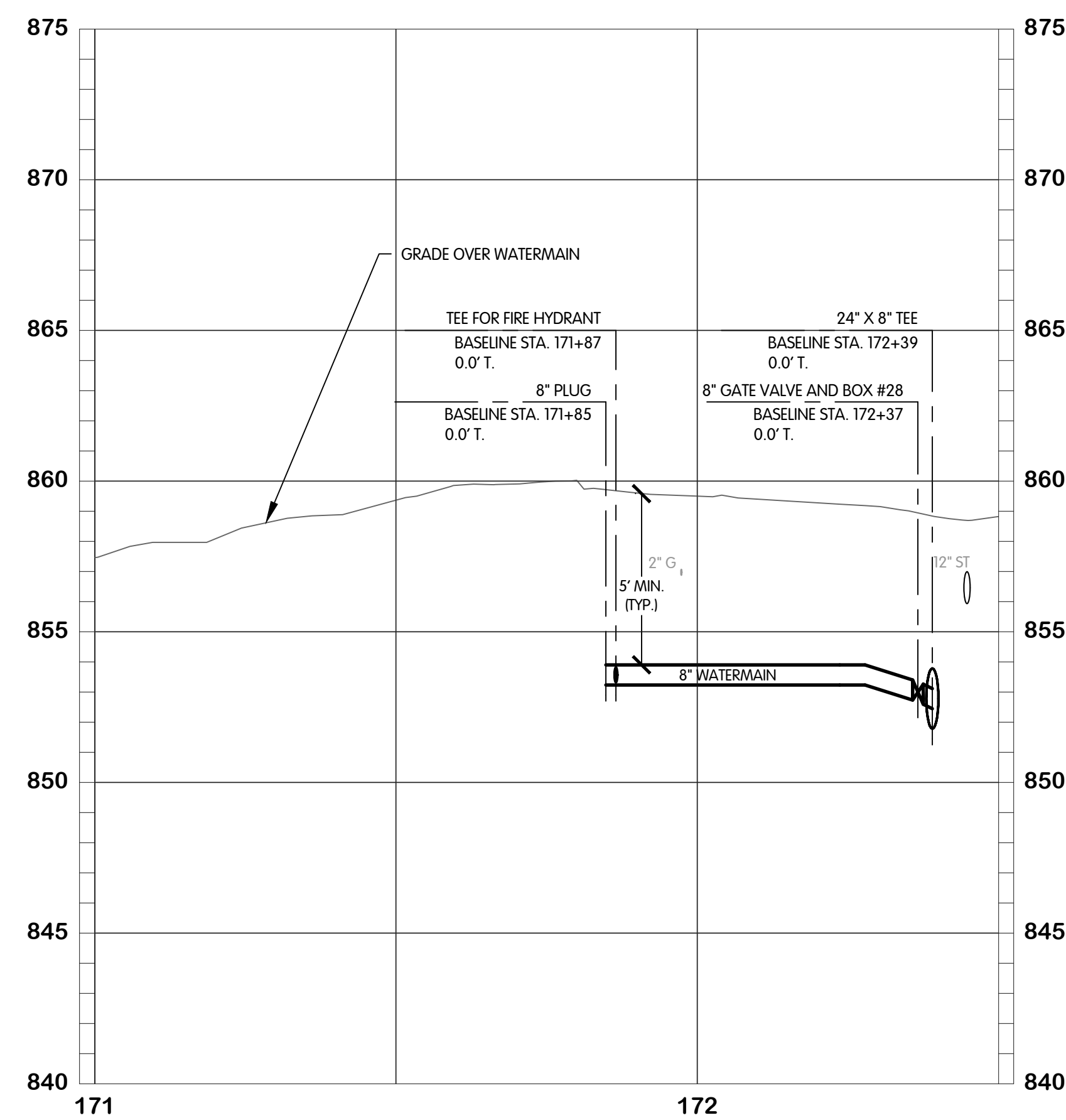
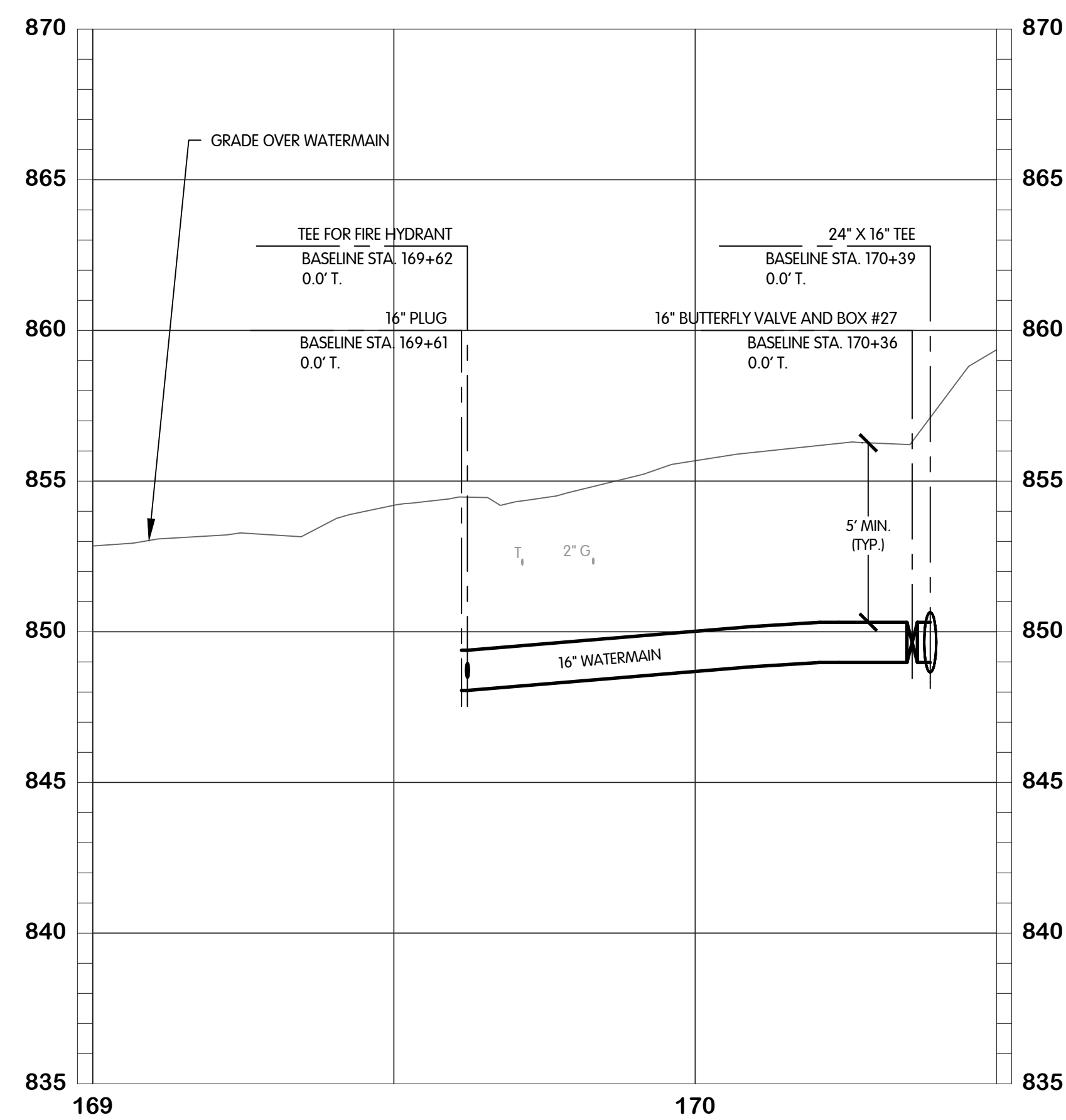
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WEATHERVANE TRAIL
STA. 171+00 TO 172+50



DAYLILY LANE
STA. 173+00 TO 174+50



KAL-767500W32-E H AVE, WEATHERVANE TR, & DAYLILY LN - WATER
 11/2/2021 4:39 PM - SWILLIS
 11/19/2021 3:27 PM

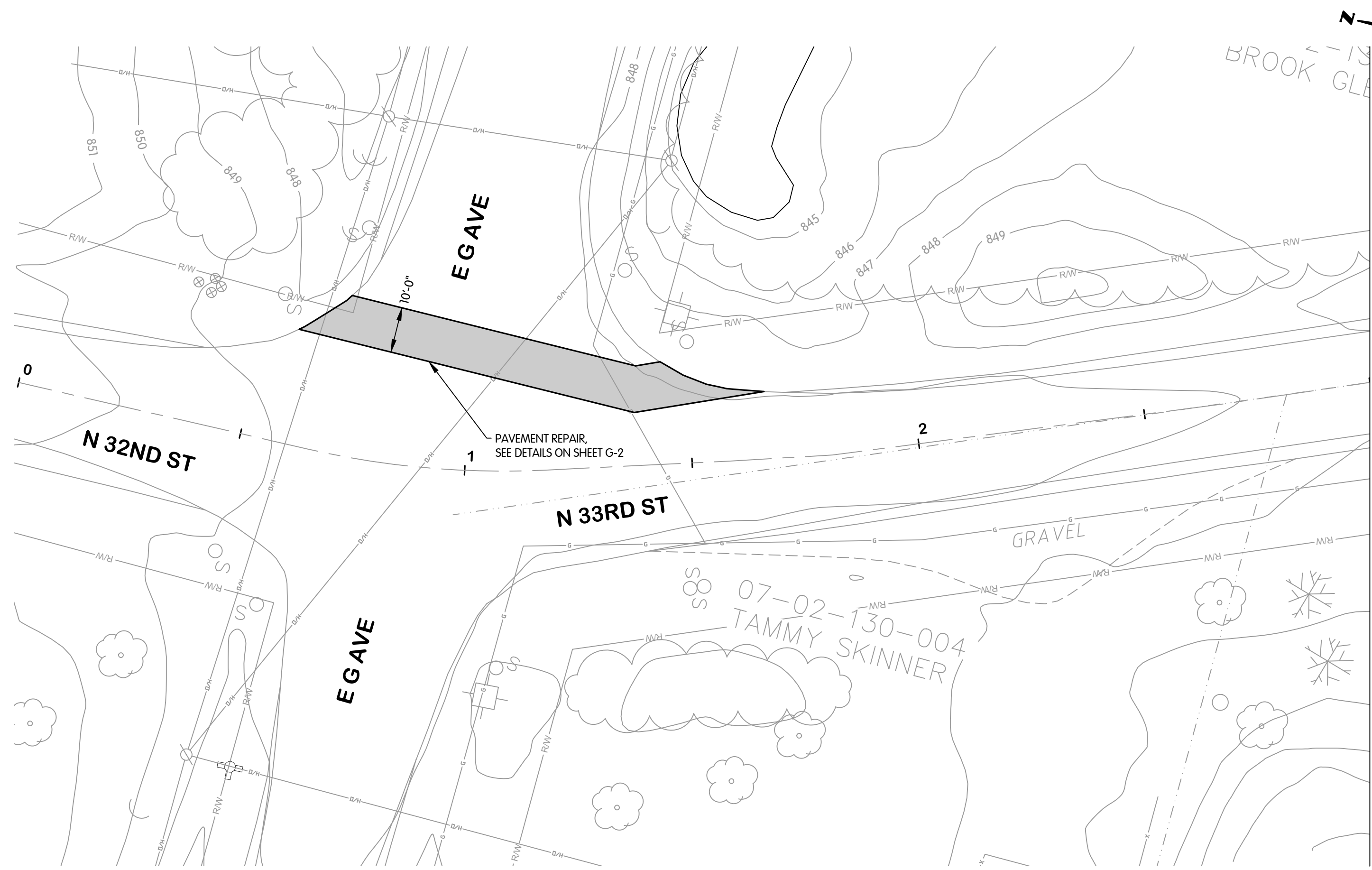
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DATE: NOVEMBER, 2021		
SHEET NO. W-32		
36 OF 53		

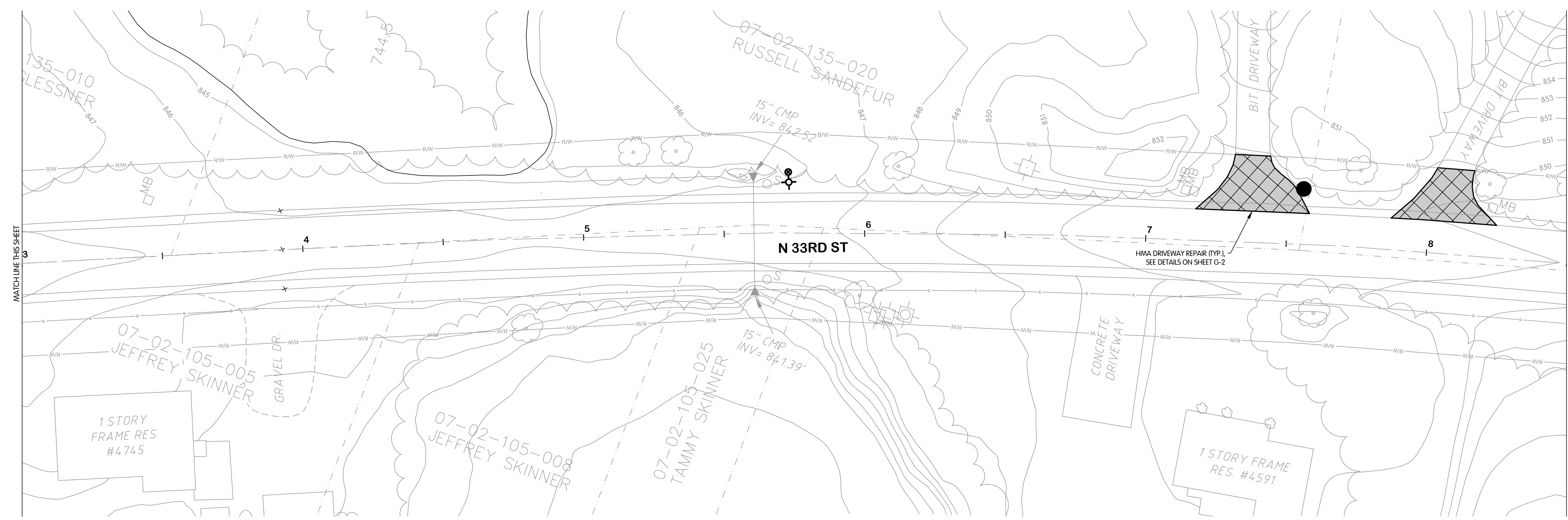
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 9/1/2021 2:54 PM - CFERRELL
 11/19/2021 3:27 PM



**N 33RD STREET
 STA. 0+00 TO 3+00**

Description	Estimated Quantity	Unit
Pavt, Rem, Mod	95	SY
Driveway, Rem, Bit	102	SY
Sawcutting	280	LF

MATCH LINE THIS SHEET



**N 33RD STREET
 STA. 3+00 TO 8+50**

MATCH LINE THIS SHEET

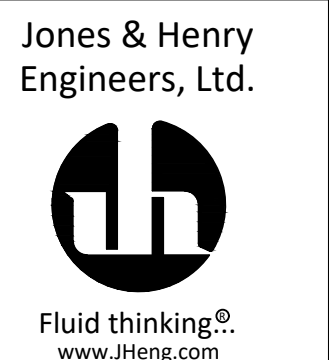
SEE SHEET SR-2



**N 33RD STREET - SURFACE RESTORATION
 STA. 0+00 TO 8+50
 & MISCELLANEOUS DETAIL**

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

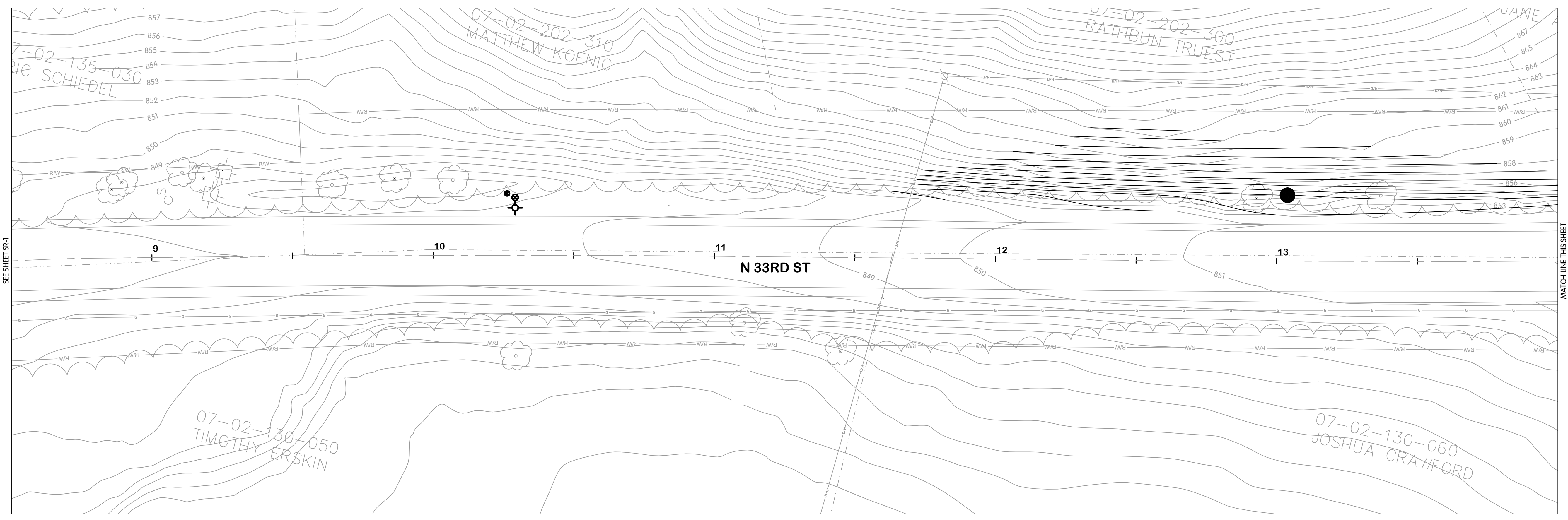
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 THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE
 DESIGNED TLK DRAWN CJAF CHECKED AJD
 STATUS PERMIT SET
 DATE NOVEMBER, 2021
 SHEET NO.

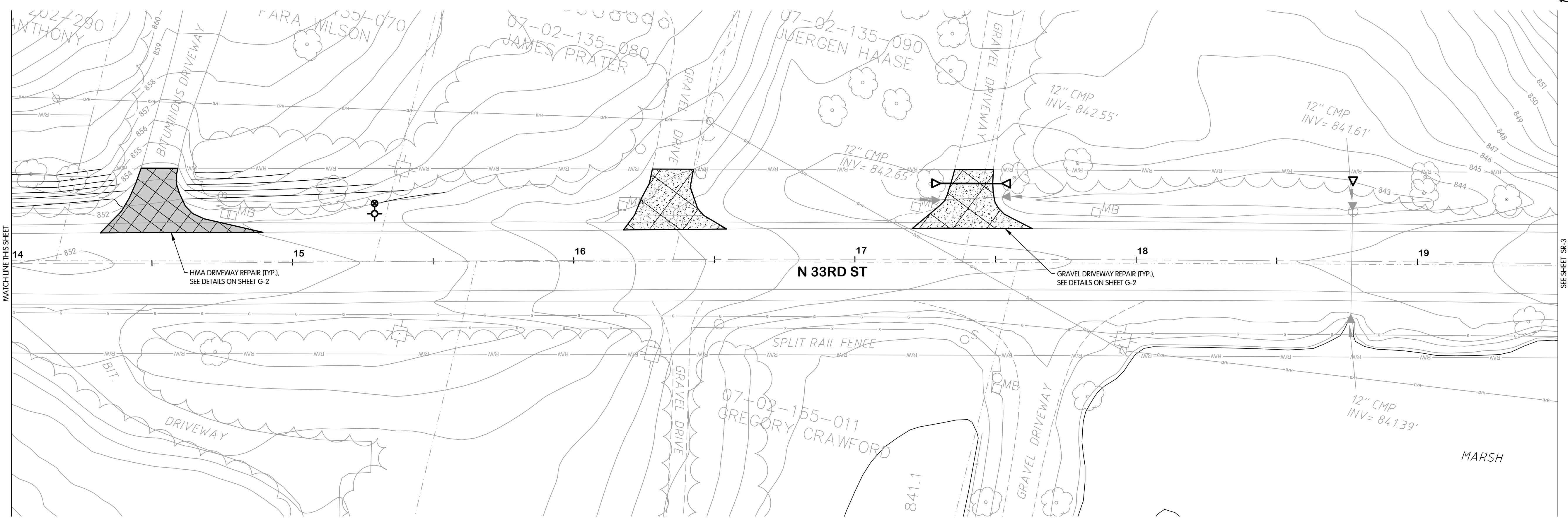
SR-1
 37 OF 53

KAL-707500SR02-N 33RD ST - SURFACE RESTOR. STA. 8+50-19+50 & MISC. DETAILS
 9/1/2021 2:56 PM - CFERRELL
 11/19/2021 3:27 PM



**N 33RD STREET
 STA. 8+50 TO 14+00**

Description	Estimated Quantity	Unit
Driveway, Rem, Bit	62	SY
Driveway, Rem, Gravel	100	SY
Sawcutting	71	LF



**N 33RD STREET
 STA. 14+00 TO 19+50**



**N 33RD STREET - SURFACE RESTORATION
 STA. 8+50 TO 19+50
 & MISCELLANEOUS DETAILS**

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SCALE 1" = 20'

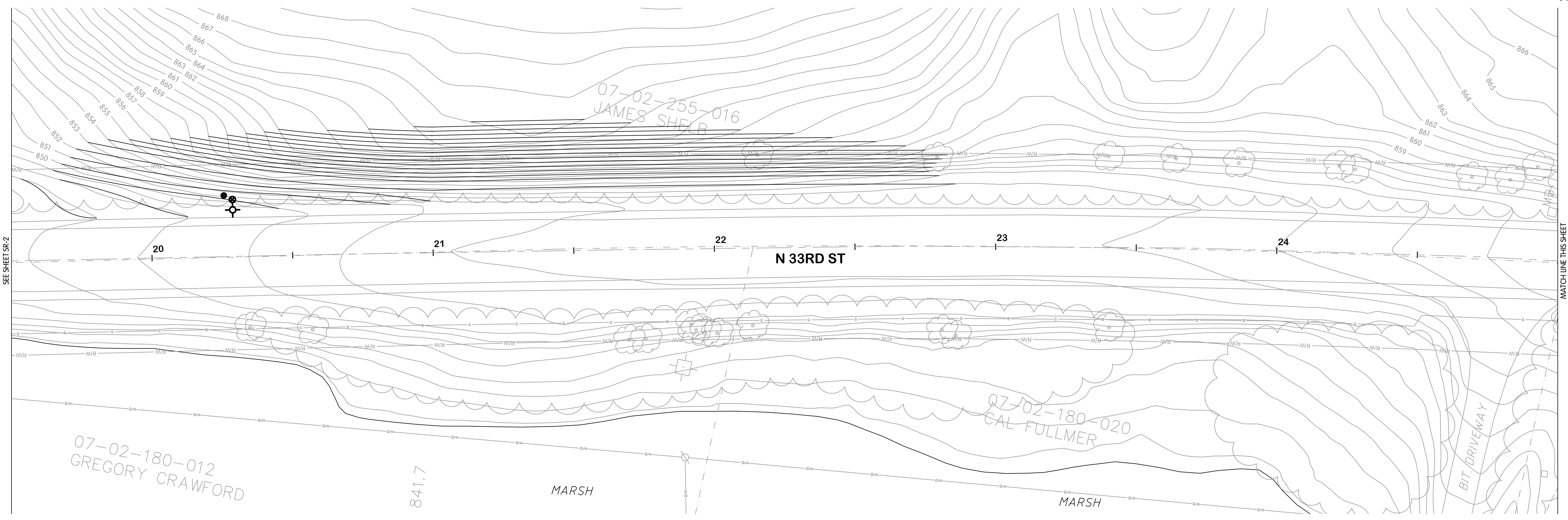
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DESIGNED	DRAWN	CHECKED
TLK	CJAF	AJD

STATUS: PERMIT SET
 DATE: NOVEMBER, 2021

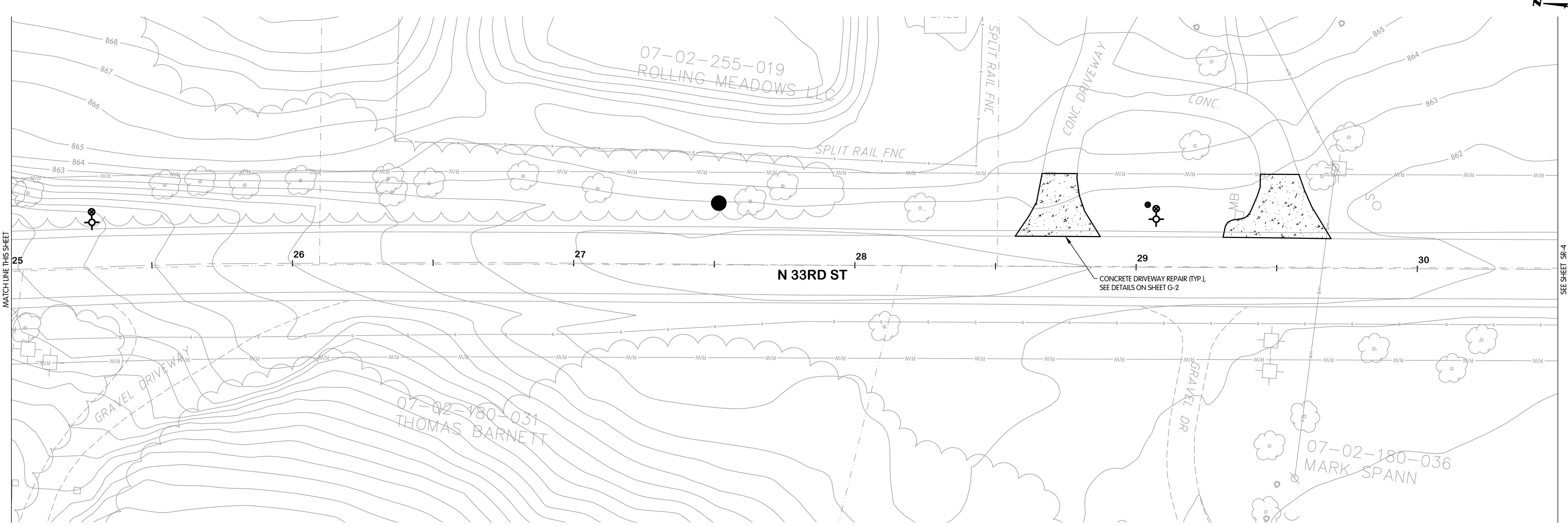
SHEET NO.
SR-2
 38 OF 53

KAL-707500SR03-N 33RD ST - SURFACE RESTOR. STA 19+50-30+50 & MISC. DETAILS
 9/1/2021 2:56 PM - CERRELL
 11/19/2021 3:27 PM



**N 33RD STREET
 STA. 19+50 TO 25+00**

Description	Estimated Quantity	Unit
Driveway, Rem, Conc	106	SY
Sawcutting	97	LF



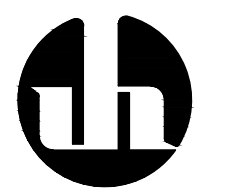
**N 33RD STREET
 STA. 25+00 TO 30+50**



**N 33RD STREET - SURFACE RESTORATION
 STA. 19+50 TO 30+50
 & MISCELLANEOUS DETAILS**

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TLK	CJAF	AJD

STATUS: PERMIT SET

DATE: NOVEMBER, 2021

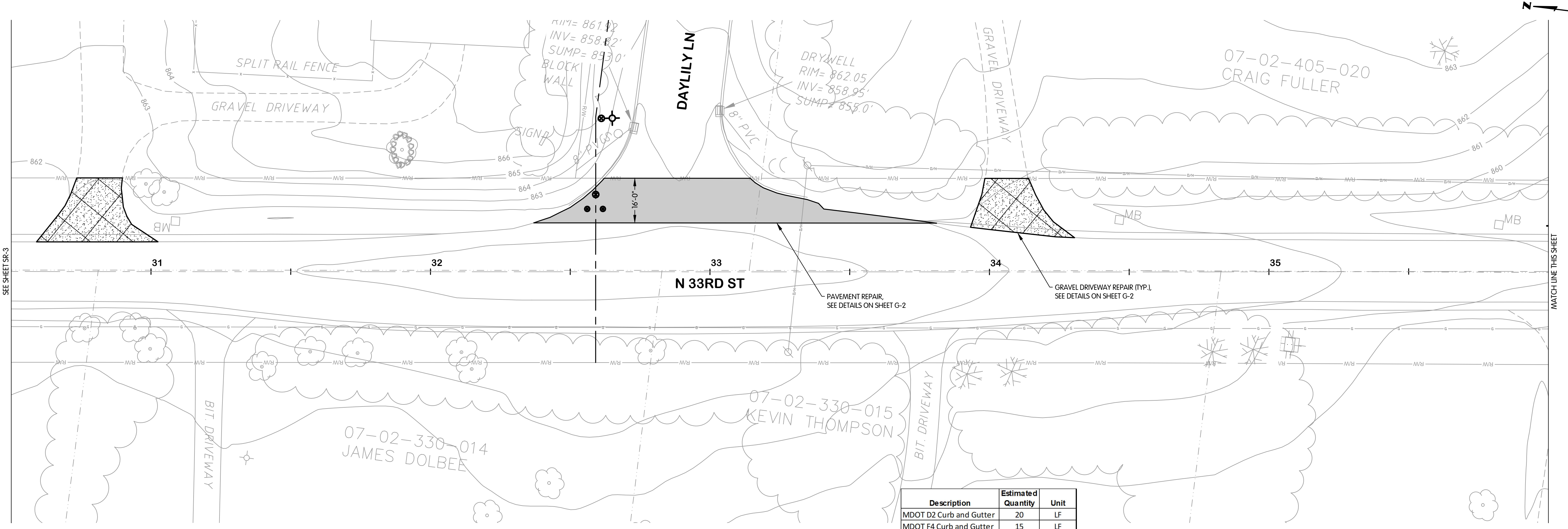
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39 OF 53

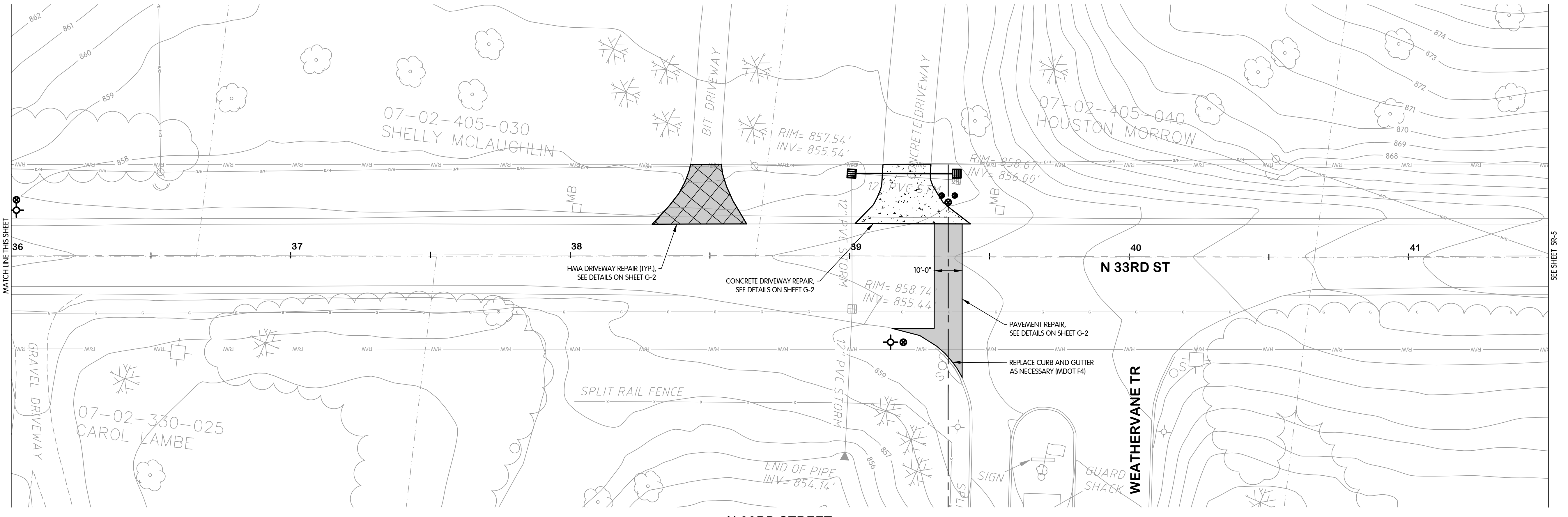
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KAL-767500SR04-N 33RD ST - SURFACE RESTOR. STA. 30+50-41+50 & MISC. DETAILS
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 11/19/2021 3:28 PM



**N 33RD STREET
 STA. 30+50 TO 36+00**

Description	Estimated Quantity	Unit
MDOT D2 Curb and Gutter	20	LF
MDOT F4 Curb and Gutter	15	LF
Pavt, Rem, Mod	215	SY
Driveway, Rem, Bit	50	SY
Driveway, Rem, Gravel	115	SY
Driveway, Rem, Conc	56	SY
Sawcutting	381	LF



**N 33RD STREET
 STA. 36+00 TO 41+50**



**N 33RD STREET - SURFACE RESTORATION
 STA. 30+50 TO 41+50
 & MISCELLANEOUS DETAILS**

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 40 OF 53



N 33RD STREET - SURFACE RESTORATION
STA. 41+50 TO 52+50
& MISCELLANEOUS DETAILS

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

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DESIGNED	TLK	DRAWN	CJAF	CHECKED	AJD
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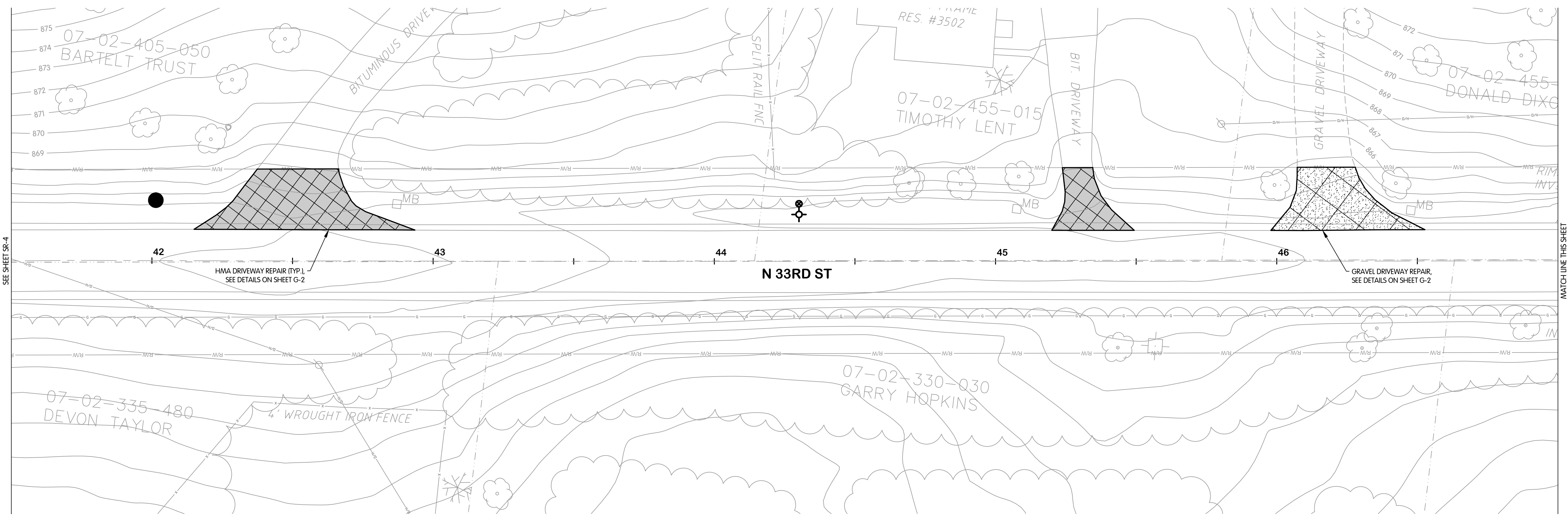
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DATE: NOVEMBER, 2021

SHEET NO.

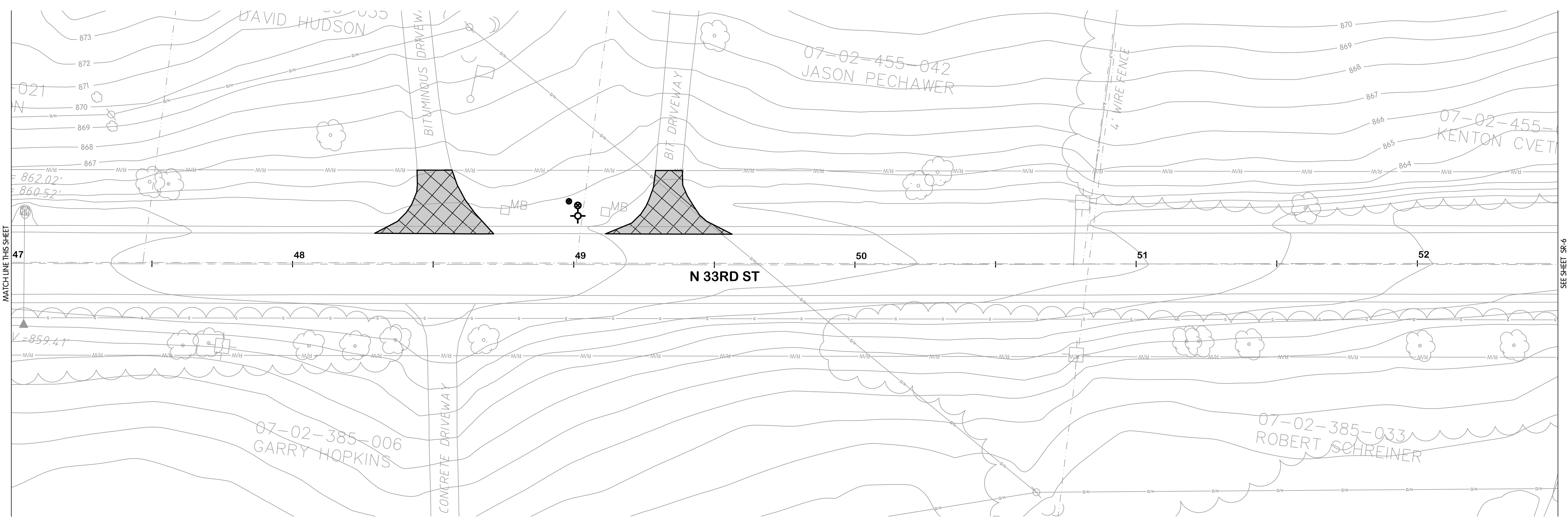
SR-5

41 OF 53



**N 33RD STREET
STA. 41+50 TO 47+00**

Description	Estimated Quantity	Unit
Driveway, Rem, Bit	253	SY
Driveway, Rem, Gravel	80	SY
Sawcutting	260	LF



**N 33RD STREET
STA. 47+00 TO 52+50**

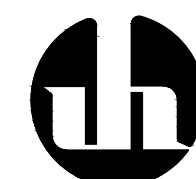
KAL-767500SR05-N 33RD ST - SURFACE RESTOR. STA. 41+50-52+50 & MISC. DETAILS
9/1/2021 3:00 PM - CFERRELL
11/19/2021 3:28 PM



**N 33RD STREET - SURFACE RESTORATION
STA. 52+50 TO 63+50
& MISCELLANEOUS DETAILS**

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SCALE 1" = 20'

THIS LINE SCALES IF WHEN
PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
TLK	CJAF	AJD

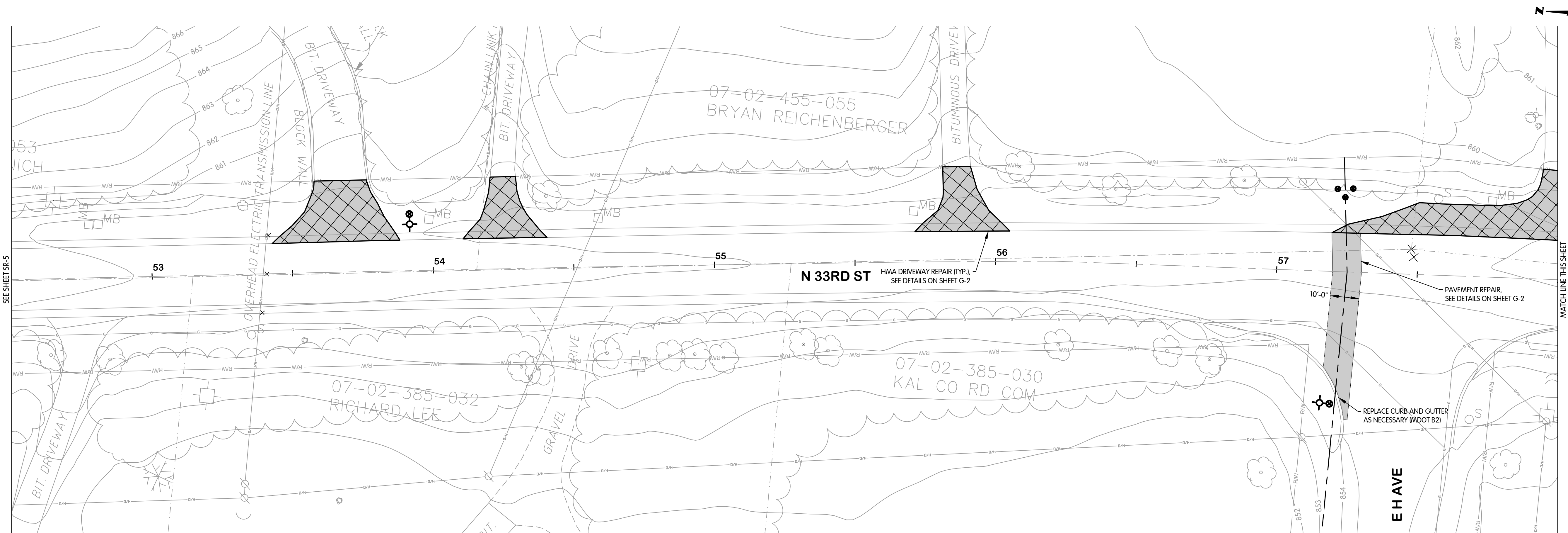
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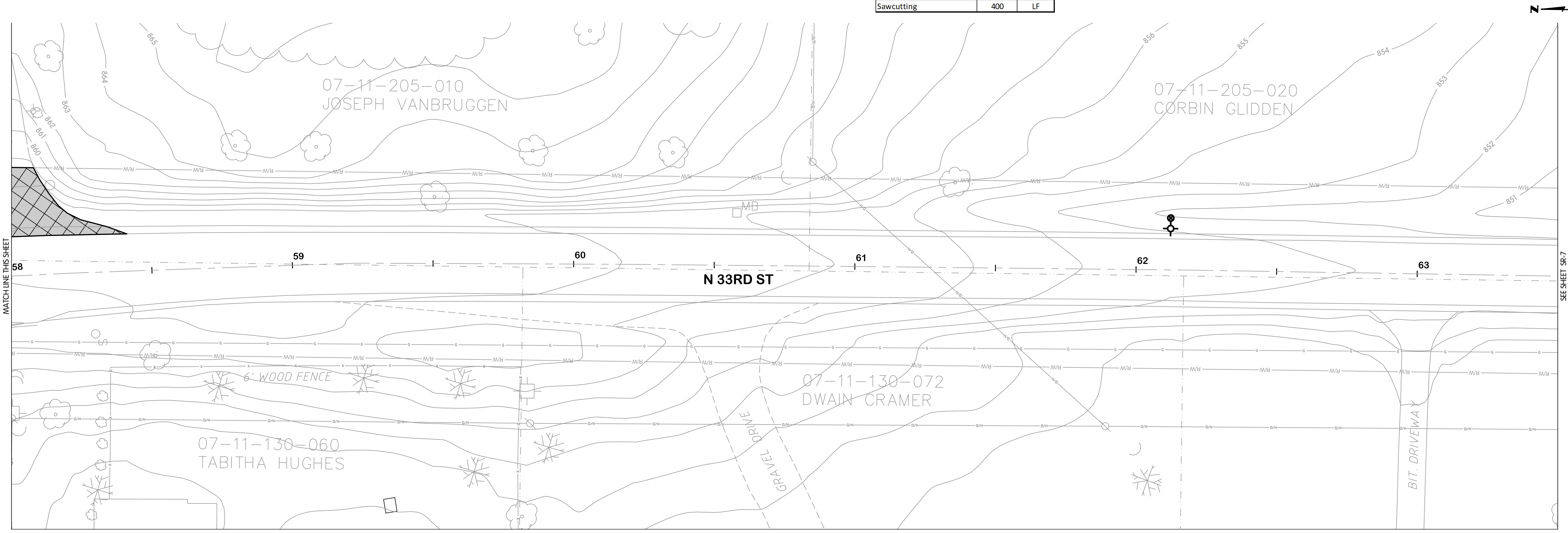
SR-6

42 OF 53



**N 33RD STREET
STA. 52+50 TO 58+00**

Description	Estimated Quantity	Unit
MDOT B2 Curb and Gutter	20	LF
Pavt, Rem, Mod	65	SY
Driveway, Rem, Bit	300	SY
Sawcutting	400	LF



**N 33RD STREET
STA. 58+00 TO 63+50**

KAL-767500SR06-N 33RD ST - SURFACE RESTOR. STA. 52+50-63+50 & MISC. DETAILS
9/1/2021 3:04 PM - CFERRELL
11/19/2021 3:28 PM

SEE SHEET SR-5

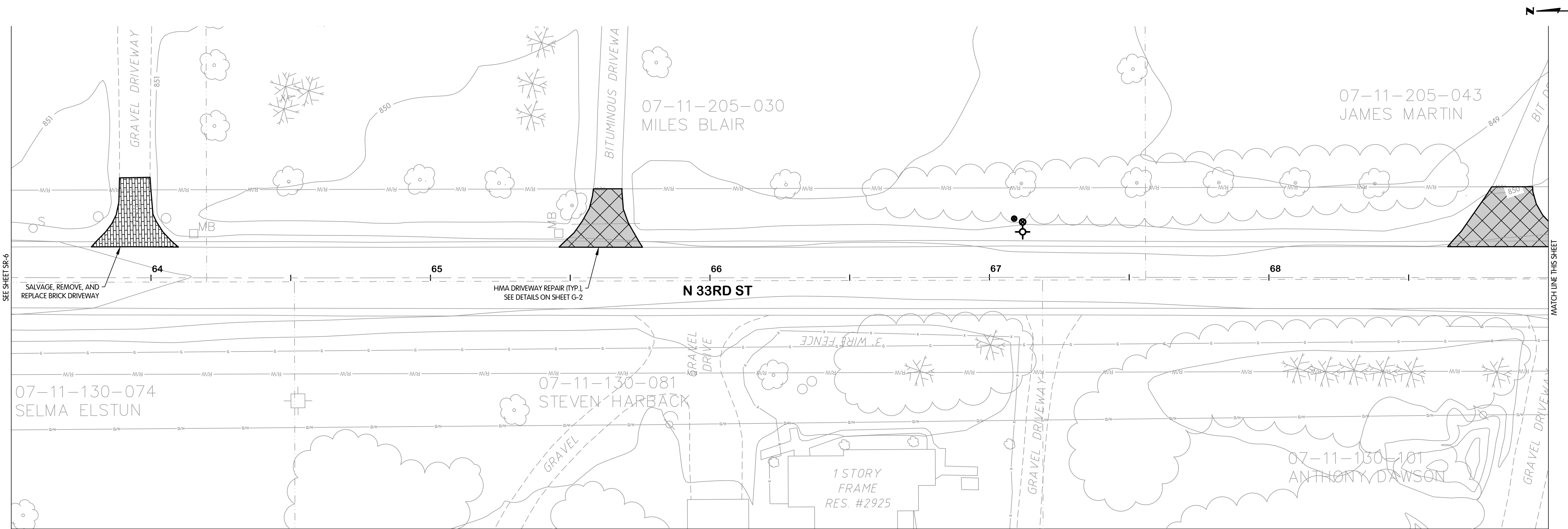
MATCHLINE THIS SHEET

MATCHLINE THIS SHEET

SEE SHEET SR-7

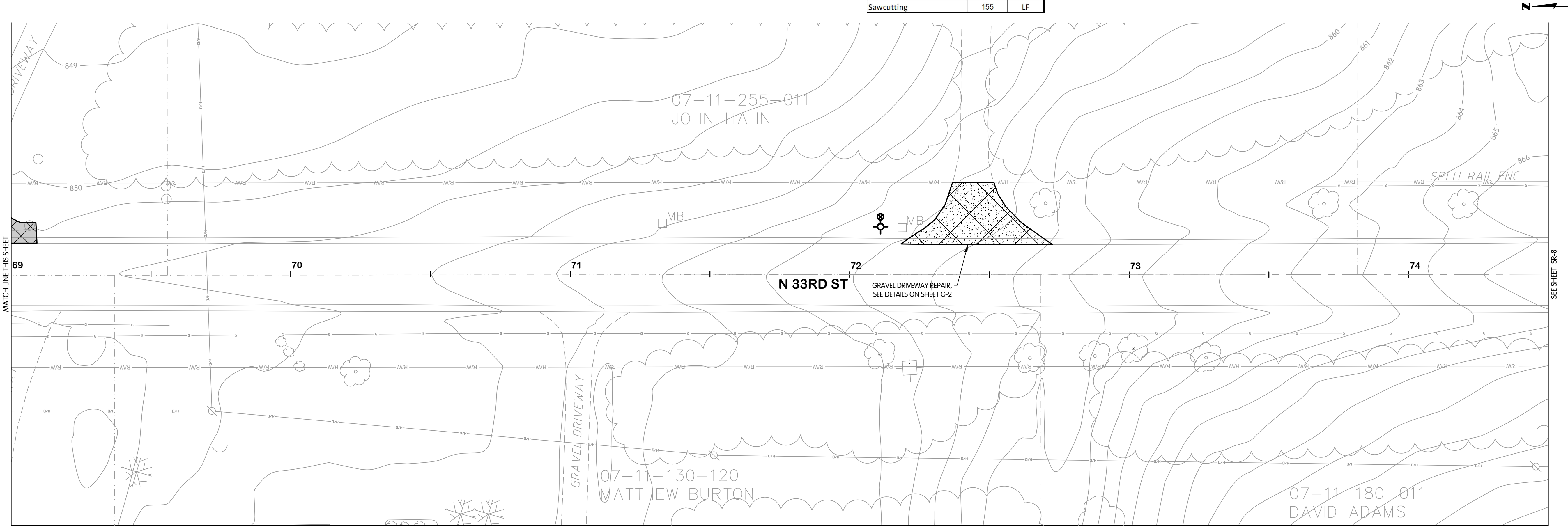
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KAL-767500SR07-N 33RD ST - SURFACE RESTOR. STA. 63+50-74+50 & MISC. DETAILS
 9/1/2021 3:07 PM - CFERRELL
 11/19/2021 3:28 PM



**N 33RD STREET
 STA. 63+50 TO 69+00**

Description	Estimated Quantity	Unit
Driveway, Rem, Bit	108	SY
Driveway, Rem, Gravel	72	SY
Driveway, Rem, Brick	45	SY
Sawcutting	155	LF



**N 33RD STREET
 STA. 69+00 TO 74+50**



**N 33RD STREET - SURFACE RESTORATION
 STA. 63+50 TO 74+50
 AND MISCELLANEOUS DETAILS**

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

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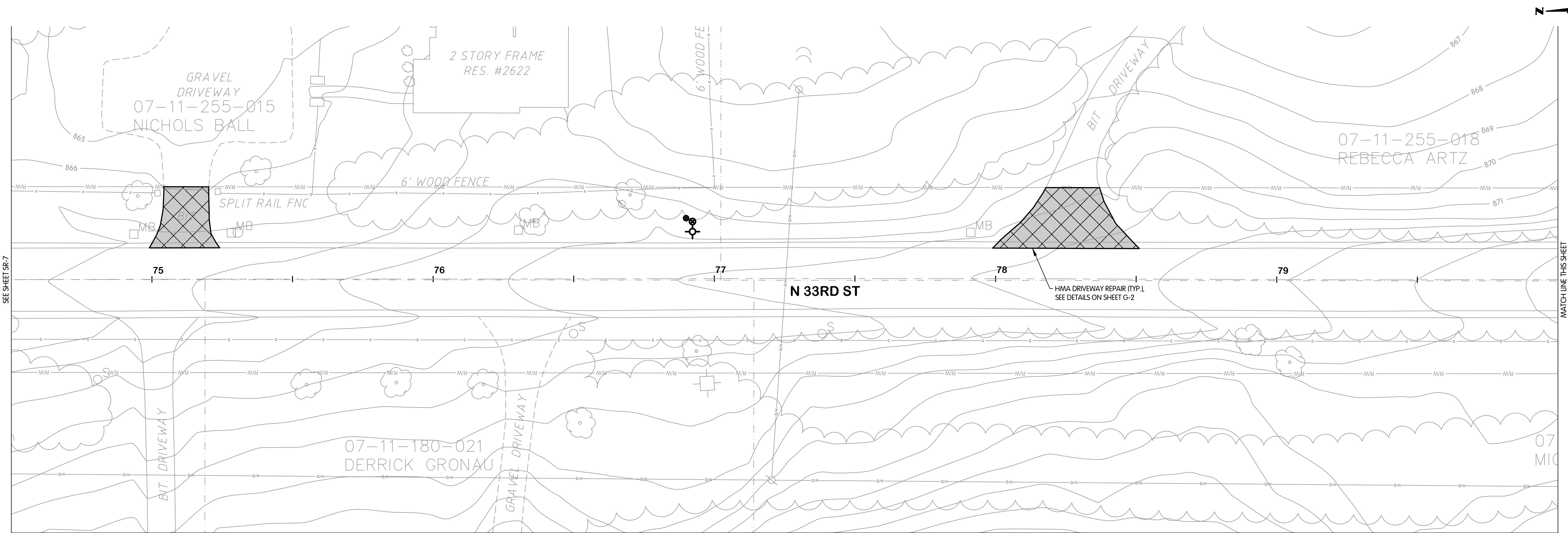
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JOB NO. 017-7675.001
 SCALE 1" = 20'
 THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
TLK	CJAF	AJD

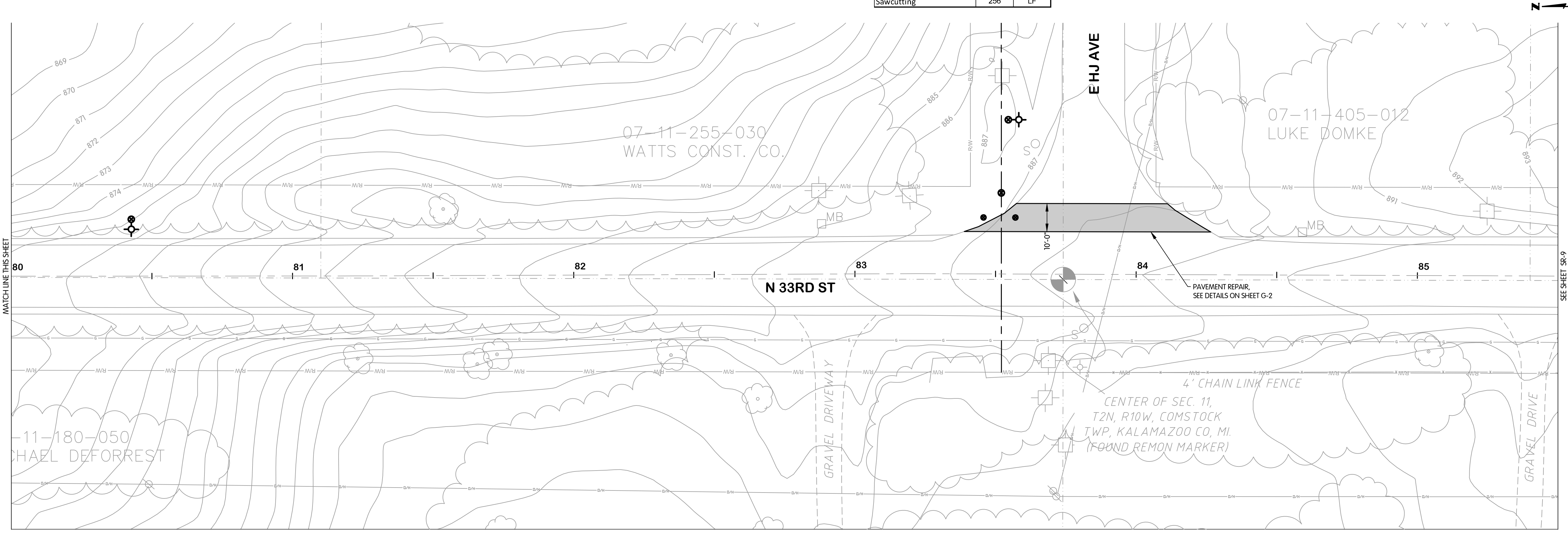
STATUS: PERMIT SET
 DATE: NOVEMBER, 2021

SHEET NO.
SR-7
 43 OF 53



**N 33RD STREET
STA. 74+50 TO 80+00**

Description	Estimated Quantity	Unit
Pavt, Rem, Mod	77	SY
Driveway, Rem, Bit	122	SY
Sawcutting	256	LF



**N 33RD STREET
STA. 80+00 TO 85+00**

KAL-707500SR08-N 33RD ST - SURFACE RESTOR. STA. 74+50-85+50 & MISC. DETAILS
9/1/2021 3:16 PM - CFERRELL
11/19/2021 3:28 PM



**N 33RD STREET - SURFACE RESTORATION
STA. 74+50 TO 85+50
AND MISCELLANEOUS DETAILS**

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

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SCALE 1" = 20'

THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
TLK	CJAF	AJD

STATUS: PERMIT SET

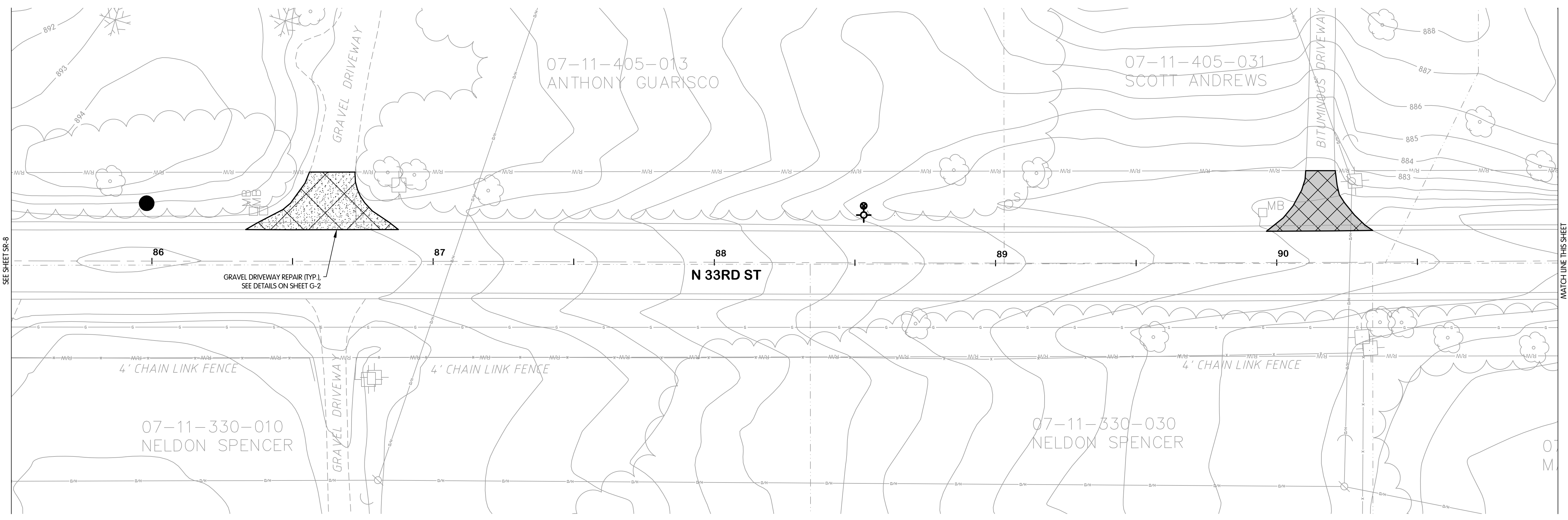
DATE: NOVEMBER, 2021

SHEET NO. SR-8

44 OF 53

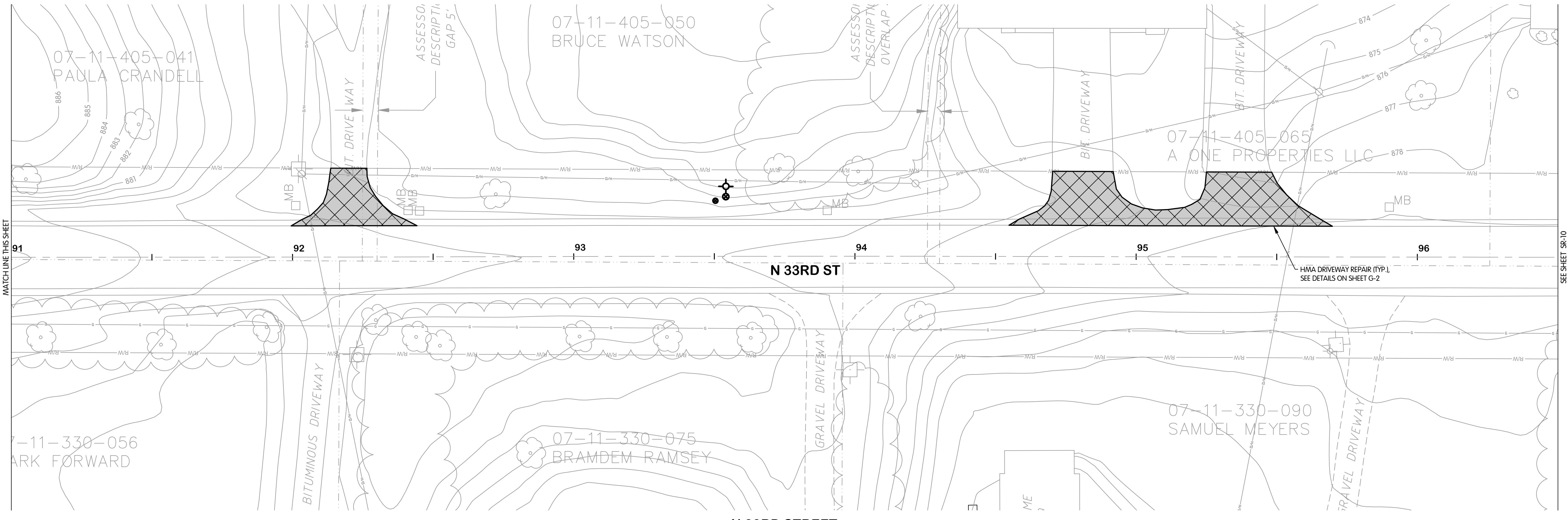
REVISIONS AFTER ISSUED FOR BID
NO. DATE BY

KAL-707500SR09-N 33RD ST - SURFACE RESTOR. STA. 85+50-96+50 & MISC. DETAILS
 9/1/2021 3:15 PM - CFERRELL
 11/19/2021 3:29 PM



**N 33RD STREET
 STA. 85+50 TO 91+00**

Description	Estimated Quantity	Unit
Driveway, Rem, Bit	245	SY
Driveway, Rem, Gravel	66	SY
Sawcutting	325	LF



**N 33RD STREET
 STA. 91+00 TO 96+50**



**N 33RD STREET - SURFACE RESTORATION
 STA. 85+50 TO 96+50
 AND MISCELLANEOUS DETAILS**

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DESIGNED	DRAWN	CHECKED
TLK	CJAF	AJD

 STATUS: PERMIT SET
 DATE: NOVEMBER, 2021
 SHEET NO.
SR-9
 45 OF 53

REVISIONS AFTER ISSUED FOR BID
 NO. DATE BY

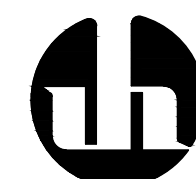


N 33RD STREET - SURFACE RESTORATION
STA. 96+50 TO 107+50
AND MISCELLANEOUS DETAILS

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

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SCALE 1" = 20'

THIS LINE SCALES IF WHEN
PLOTTED TO NOTED SCALE

DESIGNED	DRAWN	CHECKED
TLK	CJAF	AJD

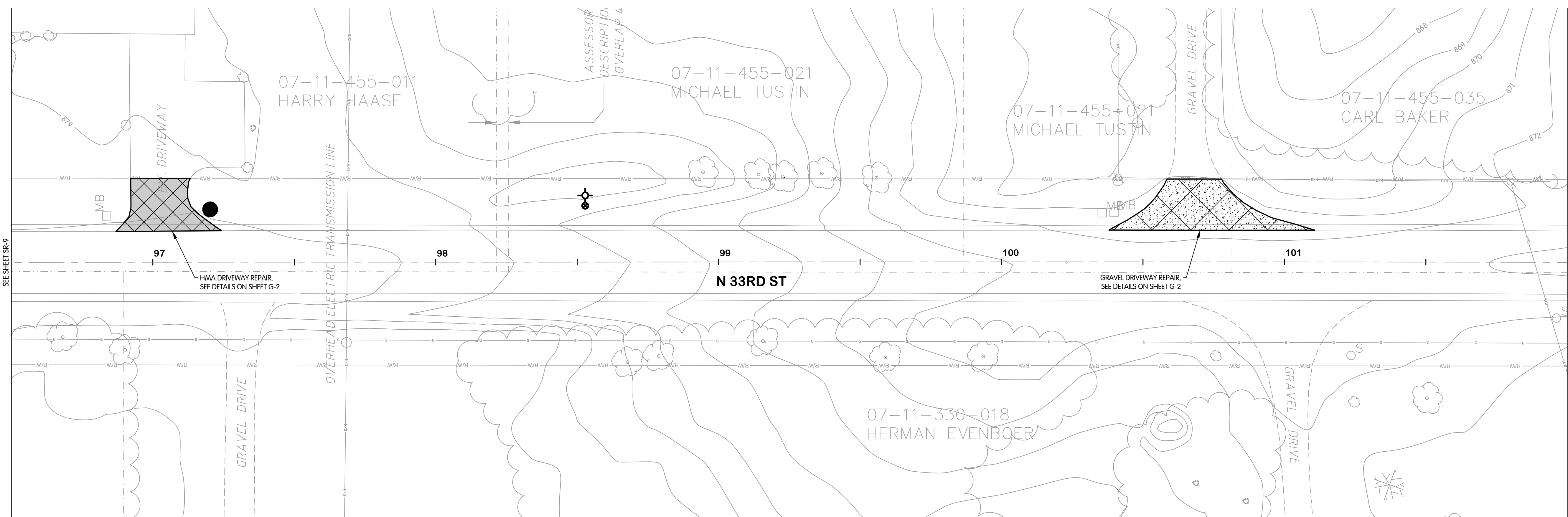
STATUS: PERMIT SET

DATE: NOVEMBER, 2021

SHEET NO.

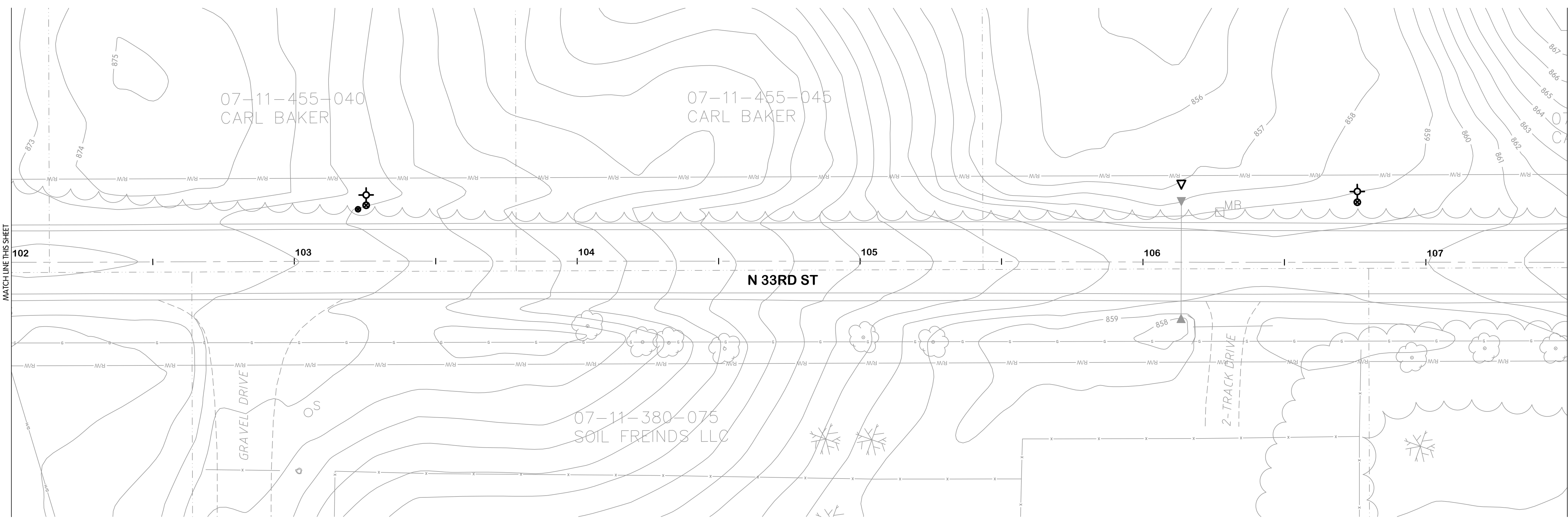
SR-10

46 OF 53



**N 33RD STREET
STA. 96+50 TO 102+00**

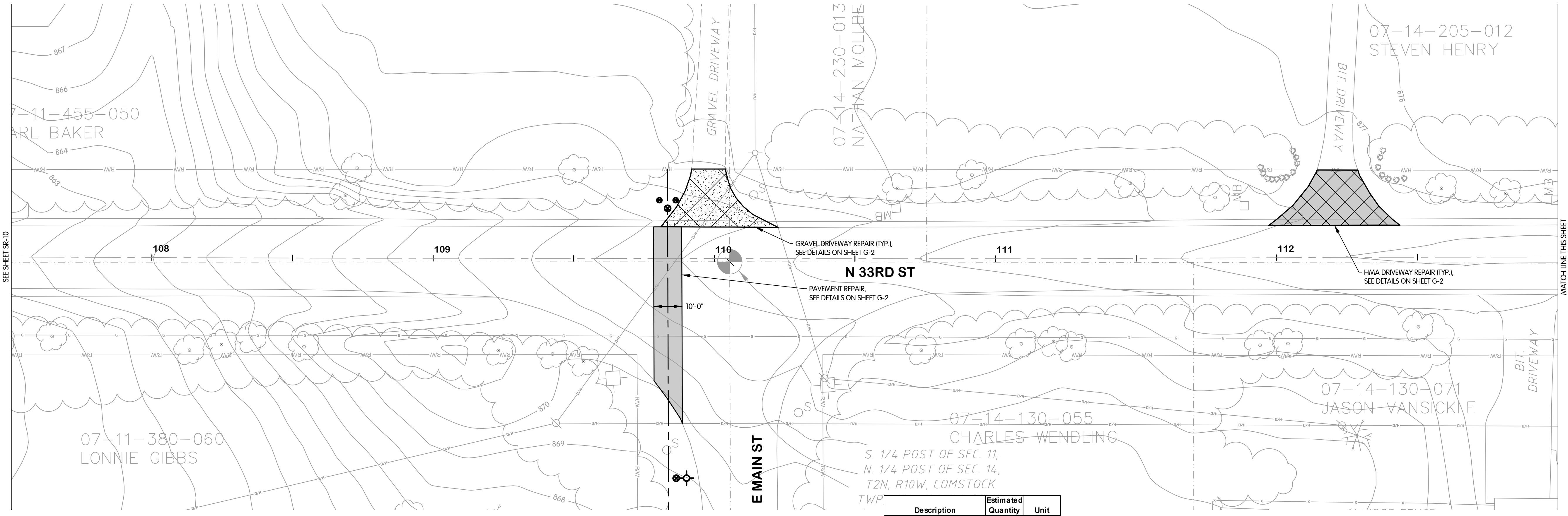
Description	Estimated Quantity	Unit
Driveway, Rem, Bit	50	SY
Driveway, Rem, Gravel	78	SY
Sawcutting	155	LF



**N 33RD STREET
STA. 102+00 TO 107+50**

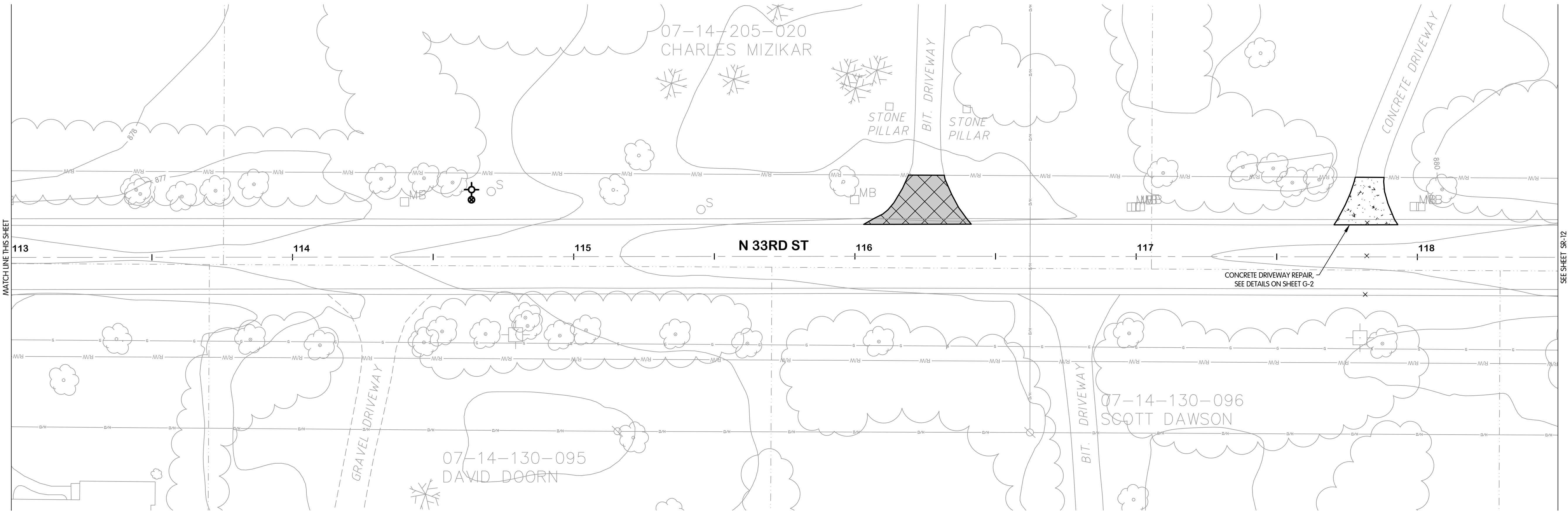
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9/1/2021 3:17 PM - CFERRELL
11/09/2021 3:29 PM

KAL-707500SR11-N 33RD ST - SURFACE RESTOR. STA. 107+50-118+50 & MISC. DETAILS
 9/1/2021 3:19 PM - CFERRELL
 11/19/2021 3:29 PM



**N 33RD STREET
 STA. 107+50 TO 113+00**

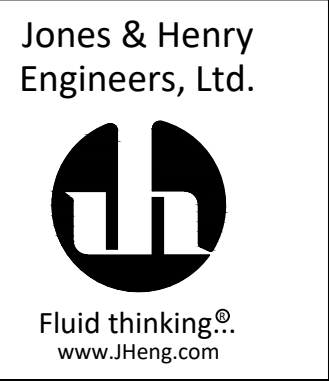
Description	Estimated Quantity	Unit
Pavt, Rem, Mod	70	SY
Driveway, Rem, Bit	105	SY
Driveway, Rem, Gravel	50	SY
Driveway, Rem, Conc	30	SY
Sawcutting	275	LF



**N 33RD STREET
 STA. 113+00 TO 118+50**



**N 33RD STREET - SURFACE RESTORATION
 STA. 107+50 TO 118+50
 AND MISCELLANEOUS DETAILS**
 CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN



JOB NO. 017-7675.001
 SCALE 1" = 20'
 THIS LINE SCALES IF WHEN PLOTTED TO NOTED SCALE
 DESIGNED: TLK DRAWN: CJAF CHECKED: AJD
 STATUS: PERMIT SET
 DATE: NOVEMBER, 2021
 SHEET NO. SR-11
 47 OF 53



N 33RD STREET - SURFACE RESTORATION
STA. 118+50 TO 129+50
AND MISCELLANEOUS DETAILS

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

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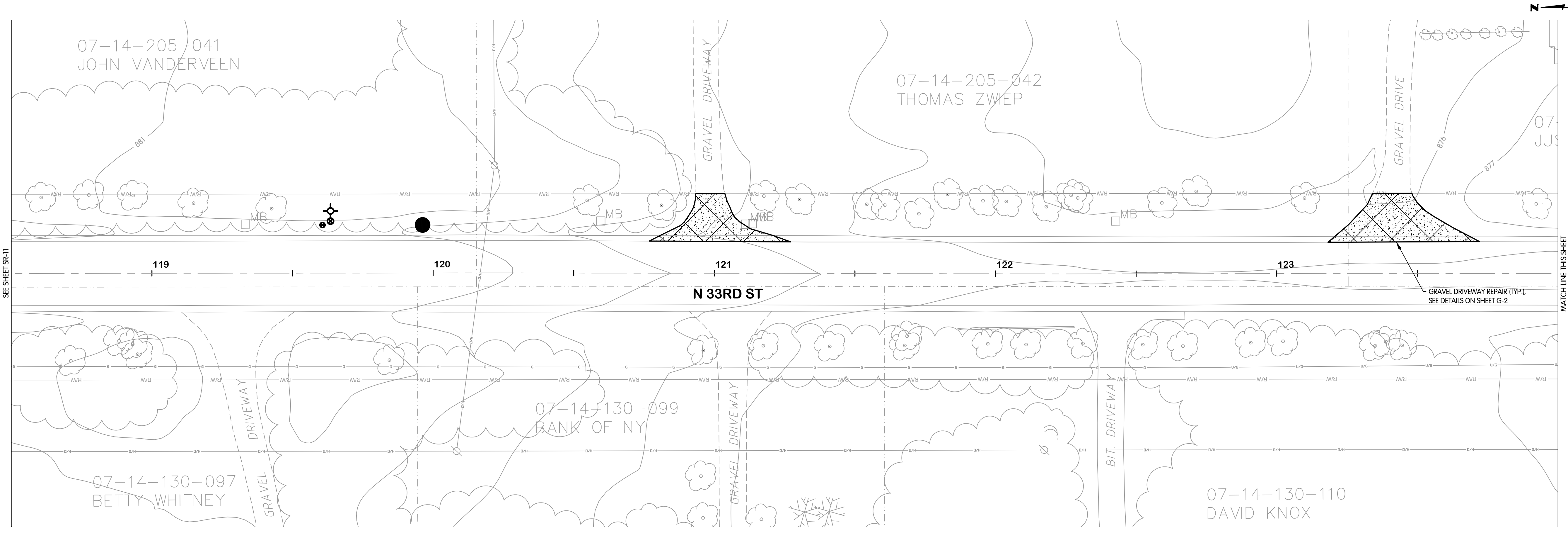
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TLK	CJAF	AJD

STATUS: PERMIT SET

DATE: NOVEMBER, 2021

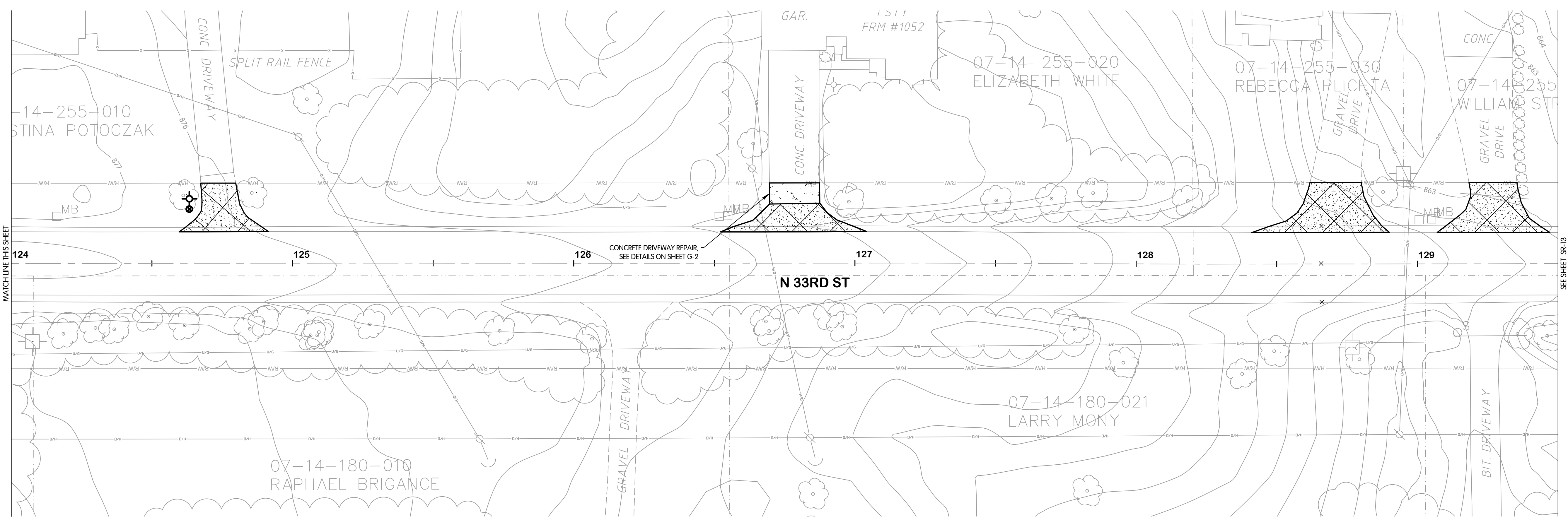
SHEET NO.

SR-12
48 OF 53



N 33RD STREET
STA. 118+50 TO 124+00

Description	Estimated Quantity	Unit
Driveway, Rem, Gravel	266	SY
Driveway, Rem, Conc	15	SY
Sawcutting	120	LF



N 33RD STREET
STA. 124+00 TO 129+50

KAL-767500SR12-N 33RD ST - SURFACE RESTOR. STA. 118+50-129+50 & MISC. DETAILS
9/1/2021 3:22 PM - CFERRELL
11/19/2021 3:29 PM



**N 33RD STREET - SURFACE RESTORATION
STA. 129+50 TO 140+50
AND MISCELLANEOUS DETAILS**

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

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SCALE 1" = 20'

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PLOTTED TO NOTED SCALE

DESIGNED TLK DRAWN CJAF CHECKED AJD

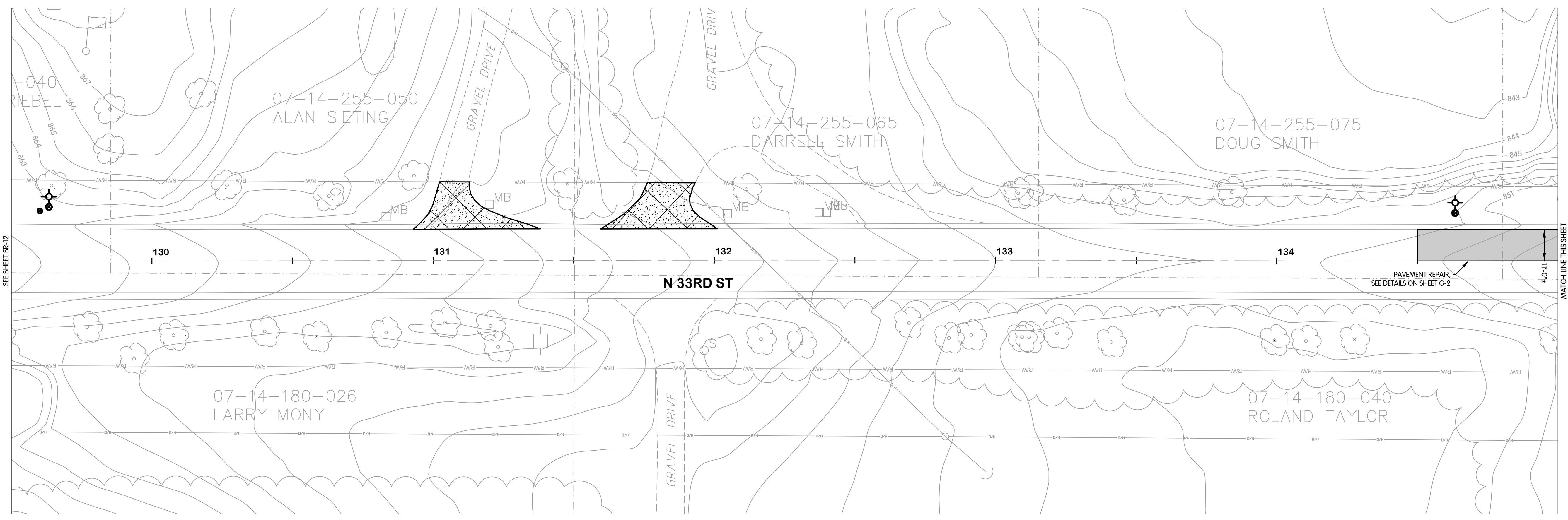
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DATE NOVEMBER, 2021

SHEET NO.

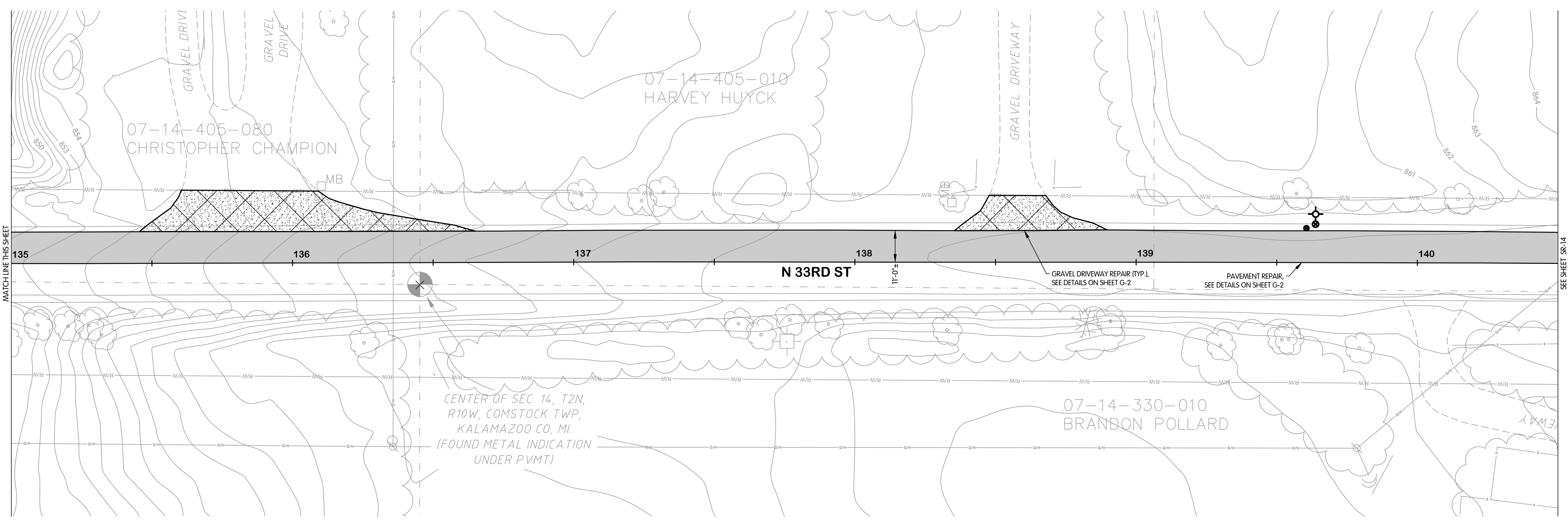
SR-13

49 OF 53



**N 33RD STREET
STA. 129+50 TO 135+00**

Description	Estimated Quantity	Unit
Pavt, Rem, Mod	750	SY
Driveway, Rem, Gravel	255	SY
Sawcutting	615	LF



**N 33RD STREET
STA. 135+00 TO 140+50**

KAL-767500SR13-N 33RD ST - SURFACE RESTOR. STA. 129+50-140+50 & MISC. DETAILS
9/1/2021 3:24 PM - CFERRELL
11/19/2021 3:30 PM

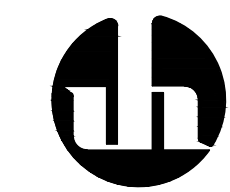


**N 33RD STREET - SURFACE RESTORATION
STA. 140+50 TO 151+50
AND MISCELLANEOUS DETAILS**

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PLOTTED TO NOTED SCALE

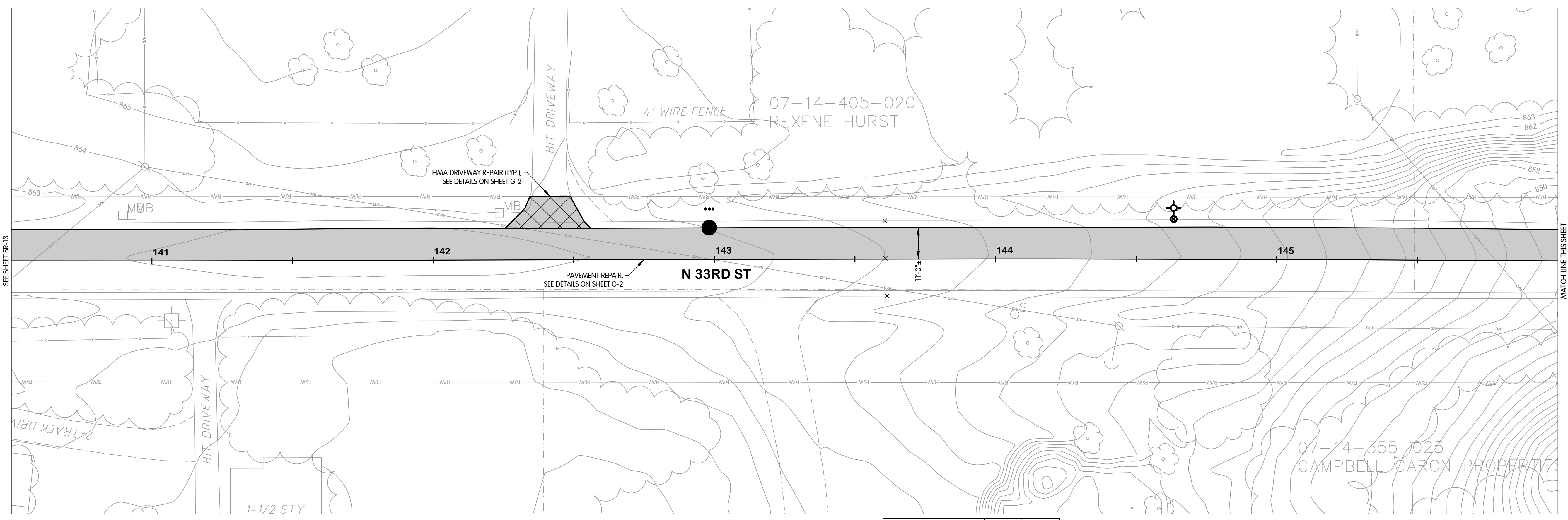
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TLK	CJAF	AJD

STATUS: PERMIT SET

DATE: NOVEMBER, 2021

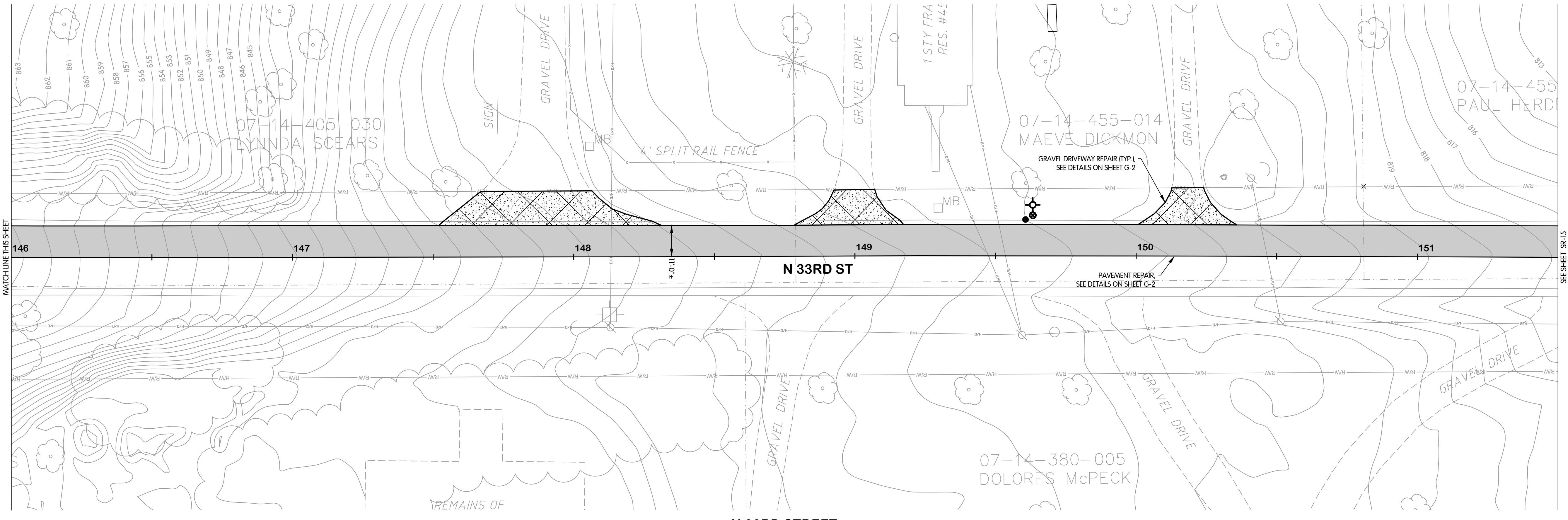
SHEET NO.

SR-14
OF 53



**N 33RD STREET
STA. 140+50 TO 146+00**

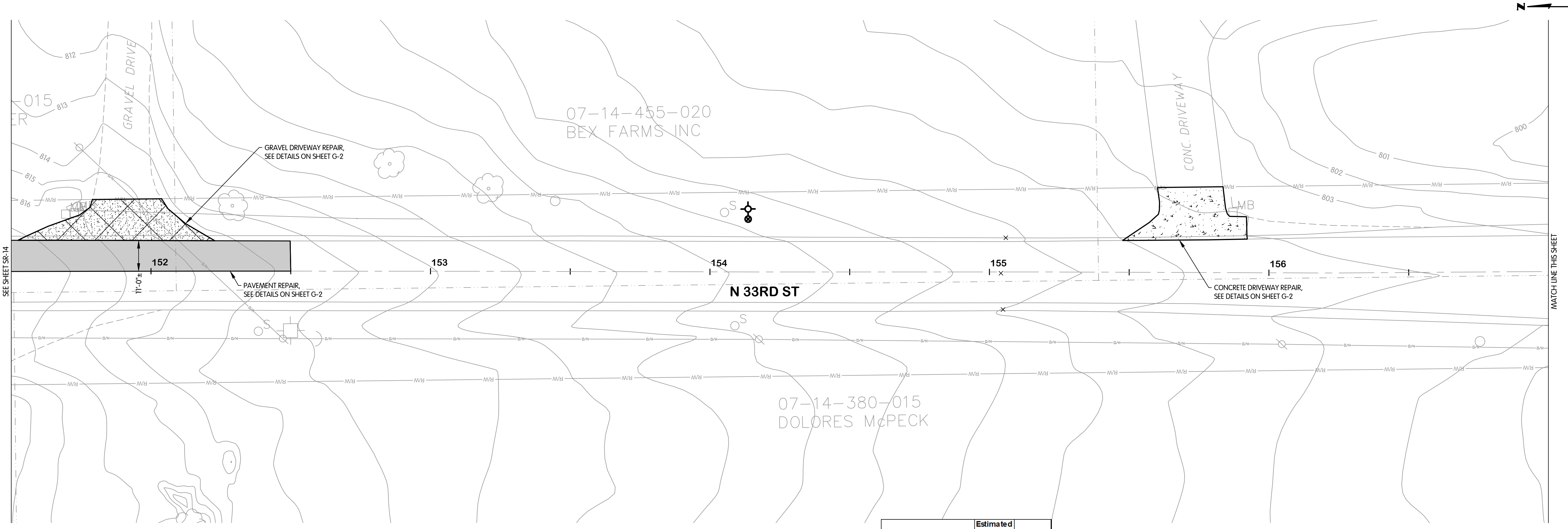
Description	Estimated Quantity	Unit
Pavt, Rem, Mod	1350	SY
Driveway, Rem, Bit	27	SY
Driveway, Rem, Gravel	140	SY
Sawcutting	1100	LF



**N 33RD STREET
STA. 146+00 TO 151+50**

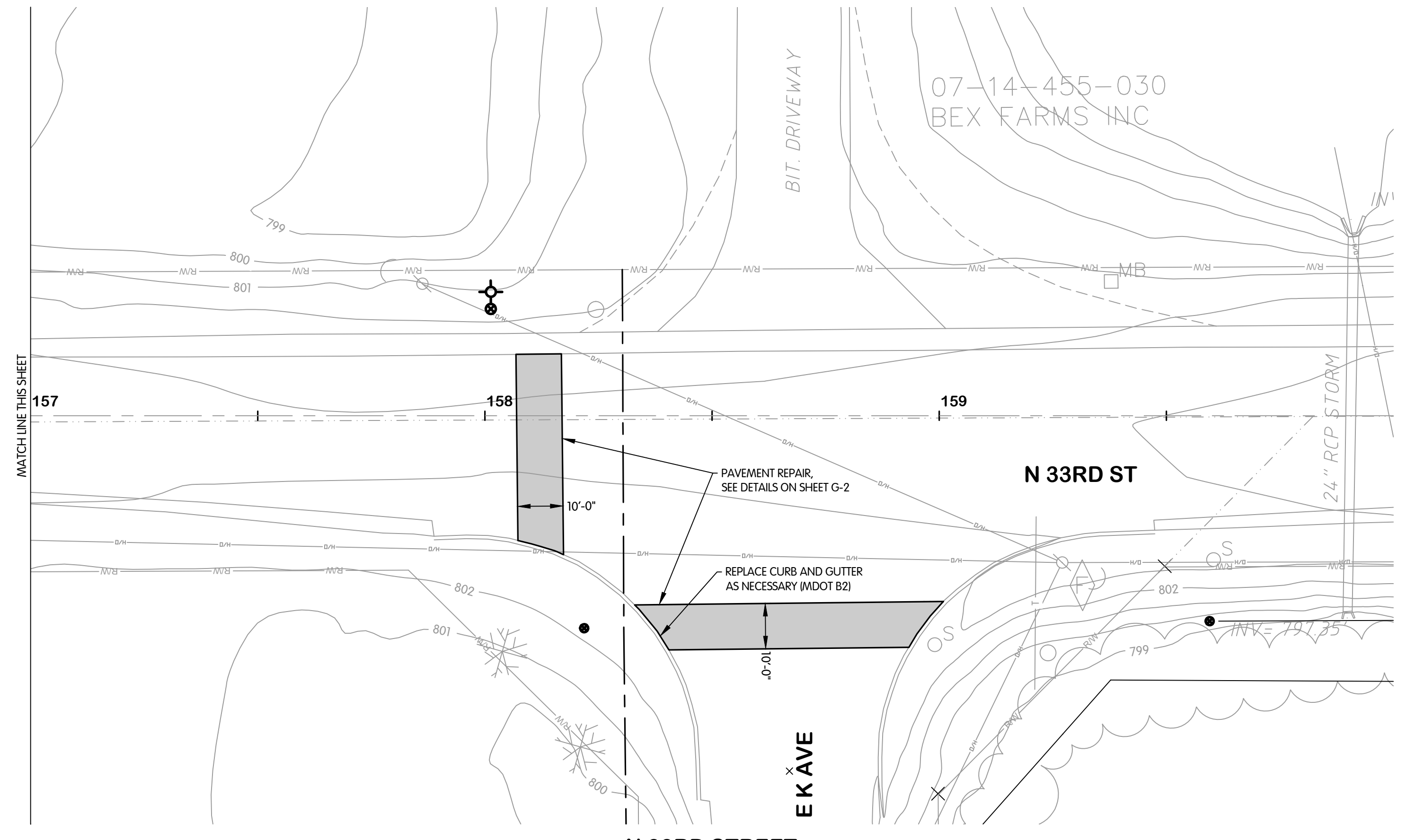
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9/1/2021 3:26 PM - CERRELL
11/19/2021 3:30 PM

KAL-707500SR15-N 33RD ST - SURFACE RESTOR. STA. 151+50-160+00 & MISC. DETAILS
 9/1/2021 3:32 PM - CFERRELL
 11/19/2021 3:30 PM



**N 33RD STREET
 STA. 151+50 TO 157+00**

Description	Estimated Quantity	Unit
Pavt, Rem, Mod	235	SY
Driveway, Rem, Gravel	72	SY
Driveway, Rem, Conc	65	SY
Sawcutting	390	LF
MDOT B2 Curb and Gutter	36	LF



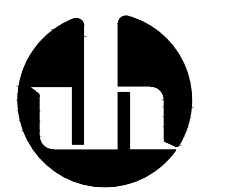
**N 33RD STREET
 STA. 157+00 TO 160+00**



**N 33RD STREET - SURFACE RESTORATION
 STA. 151+50 TO 160+00
 AND MISCELLANEOUS DETAILS**

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TLK	CJAF	AJD

STATUS: PERMIT SET

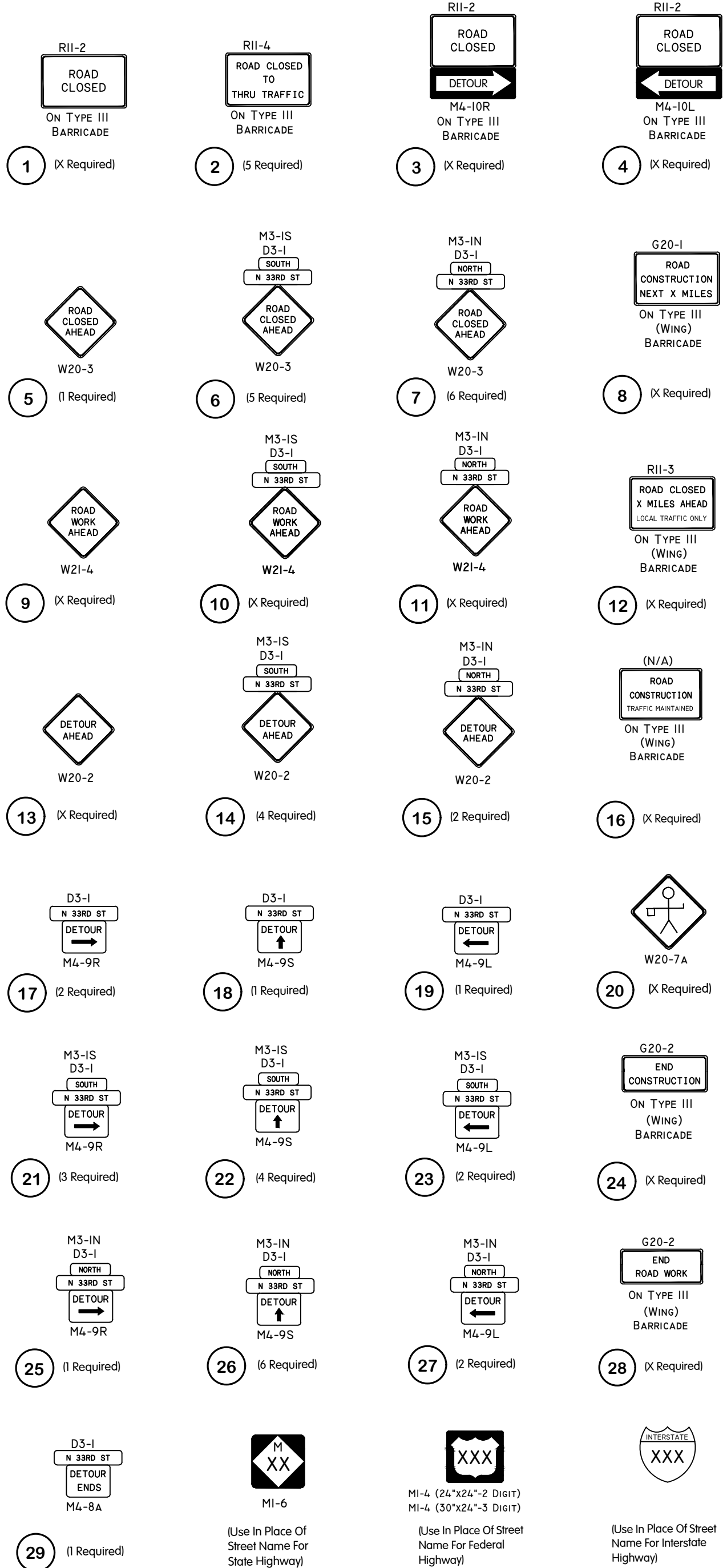
DATE: NOVEMBER, 2021

SHEET NO.

SR-15
 51 OF 53

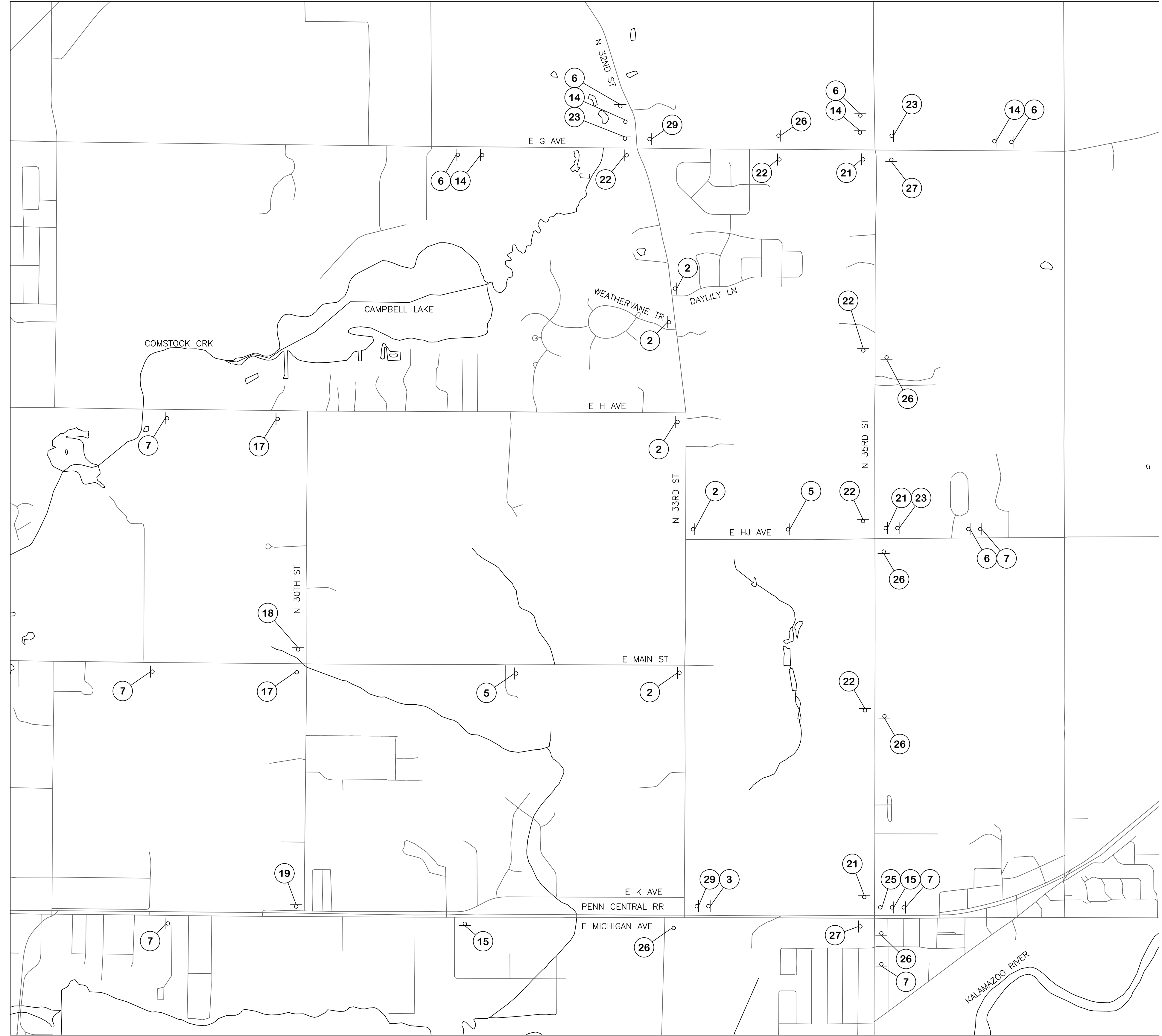
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KAL-7675001C-TRAFFIC CONTROL PLAN & LOCAL RUN AROUND
 7/22/2021 4:47 PM - CFERRELL
 11/19/2021 3:30 PM



DETOUR ROUTE AND LANE/ROADWAY CLOSURES

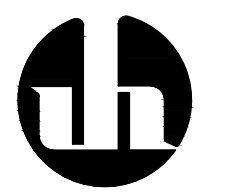
- ACCESS FOR EMERGENCY VEHICLES MUST BE PROVIDED AT ALL TIMES.
- ACCESS FOR LOCAL TRAFFIC AND SCHOOL TRAFFIC MUST BE PROVIDED AT ALL TIMES.
- THE KALAMAZOO COUNTY CONSOLIDATED DISPATCH AUTHORITY SHALL BE NOTIFIED, VIA THEIR NON-EMERGENCY NUMBER, OF ALL LANE CLOSURES AND CLOSURE DURATION. CONTACT CENTRAL DISPATCH AT (269)-488-8911.
- IF COMPLETE ROADWAY CLOSURE IS REQUIRED, CONTRACTOR SHALL CONTACT THE KALAMAZOO COUNTY CONSOLIDATED DISPATCH AUTHORITY AT LEAST 24 BUSINESS HOURS PRIOR TO THE CLOSURE. CONTRACTOR SHALL RECEIVE APPROVAL OF THE CLOSURE FROM THE KALAMAZOO COUNTY CONSOLIDATED DISPATCH AUTHORITY PRIOR TO MOVING FORWARD WITH THE CLOSURE.



**N 33RD STREET TRAFFIC CONTROL PLAN
 AND LOCAL RUN AROUND**

CITY OF KALAMAZOO, MICHIGAN - N 33RD STREET TRANSMISSION MAIN

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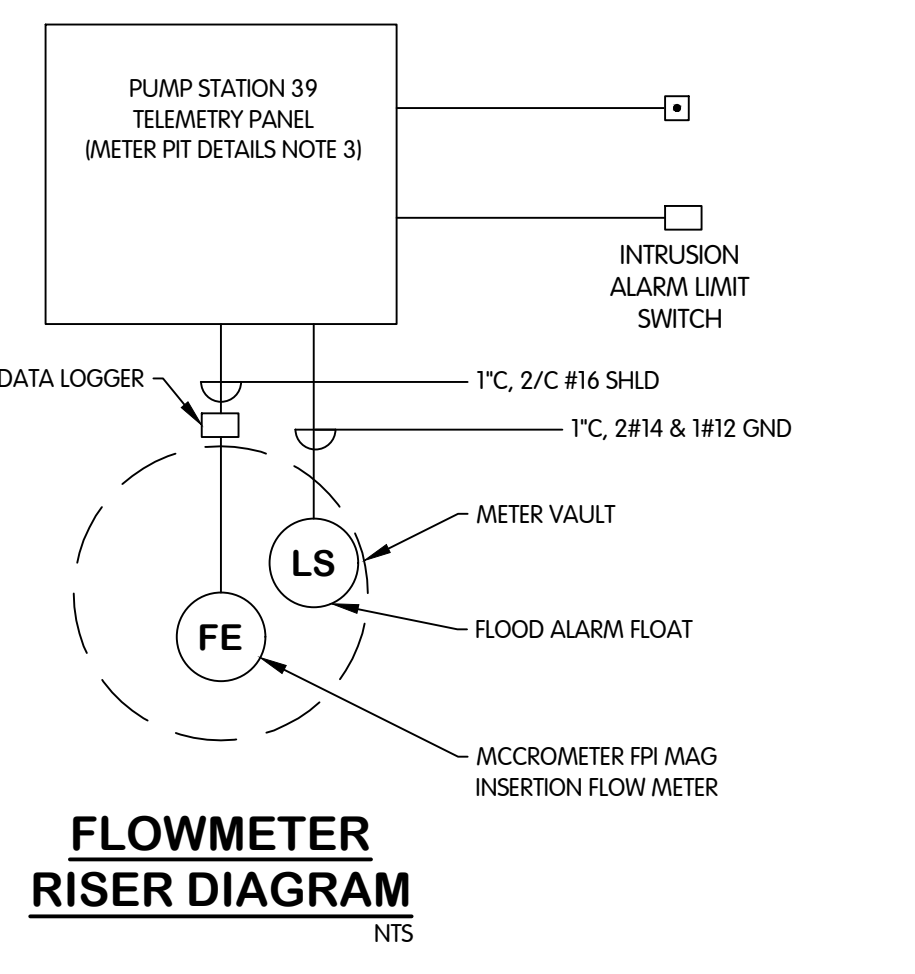
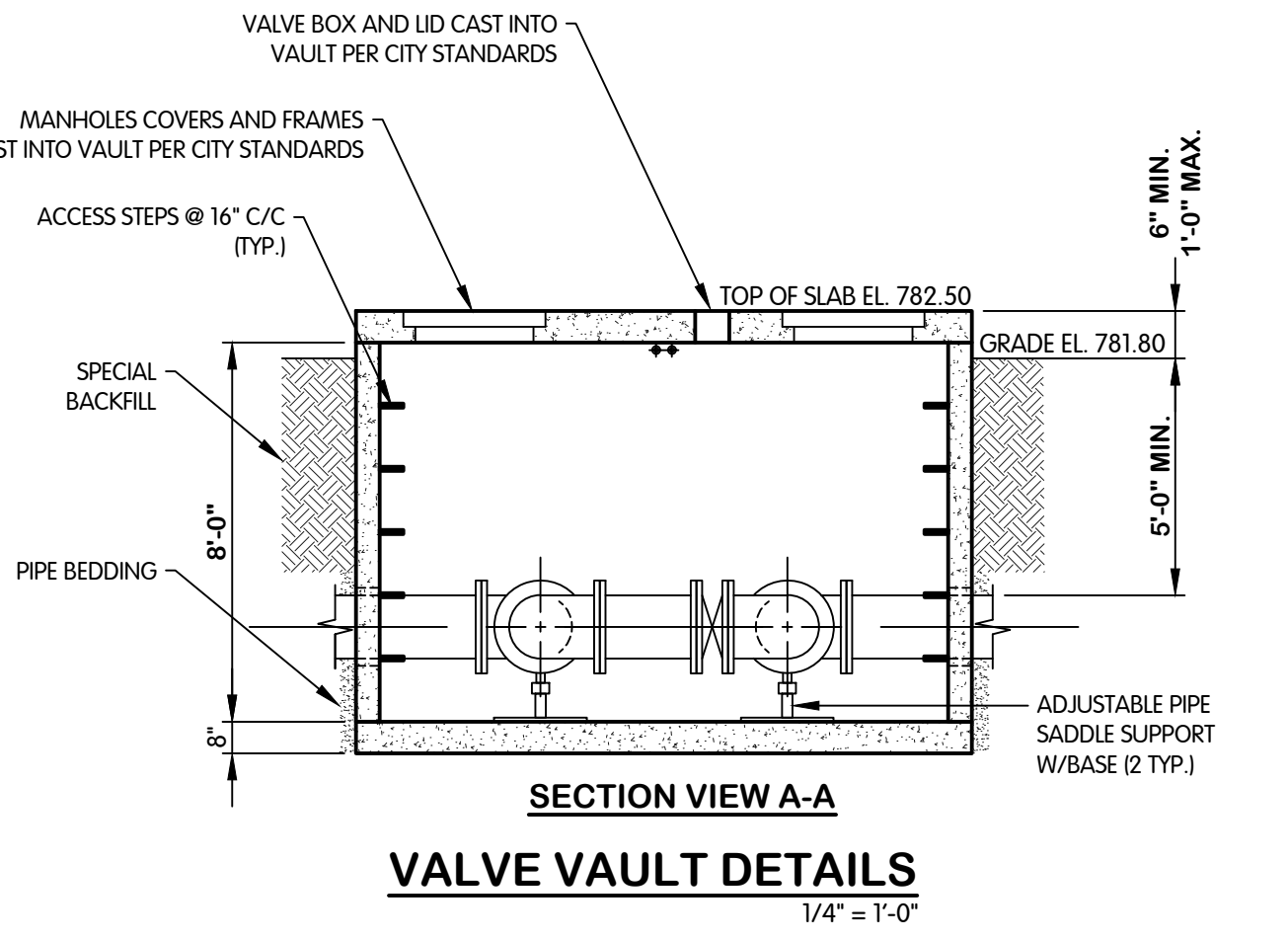
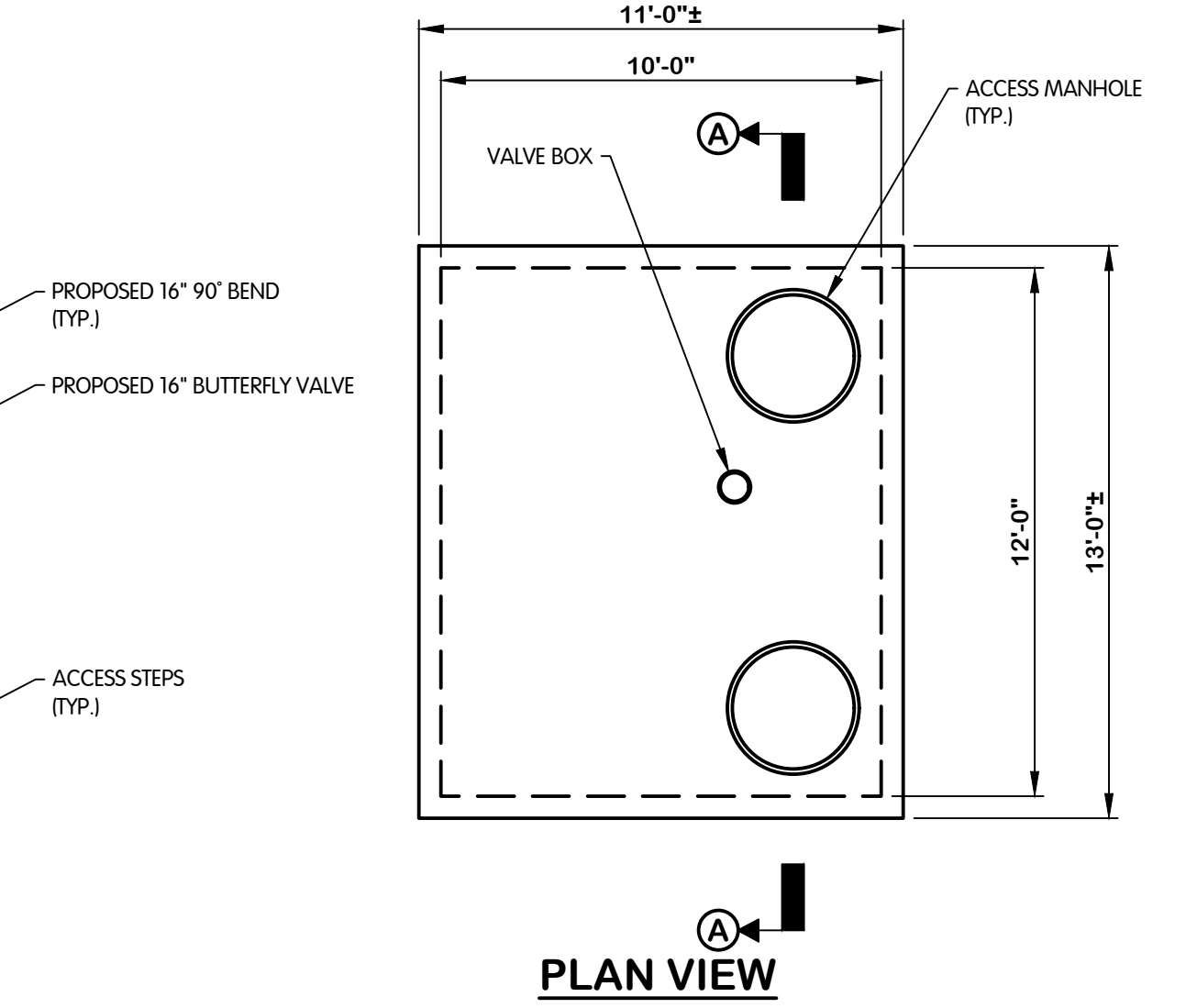
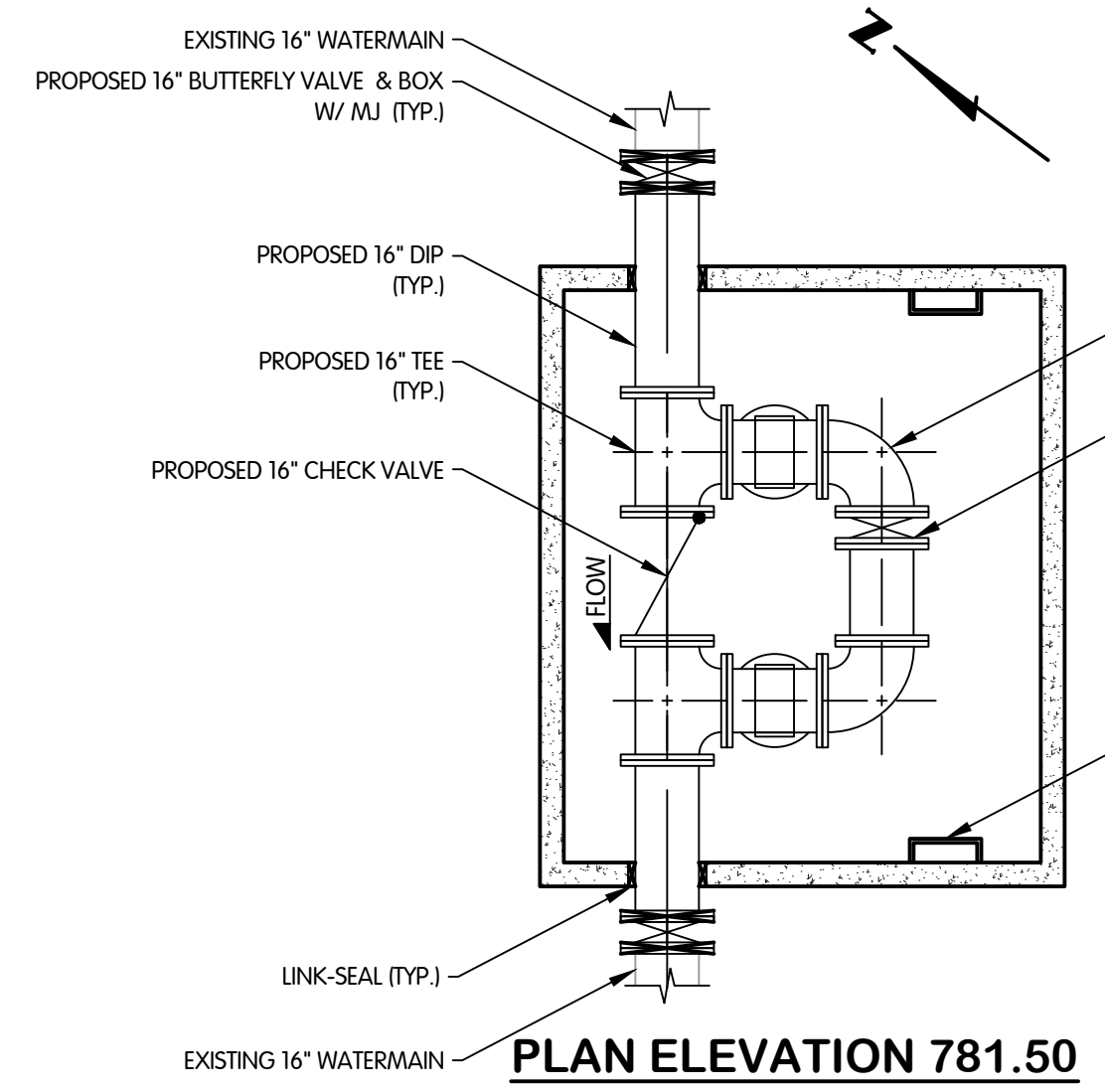
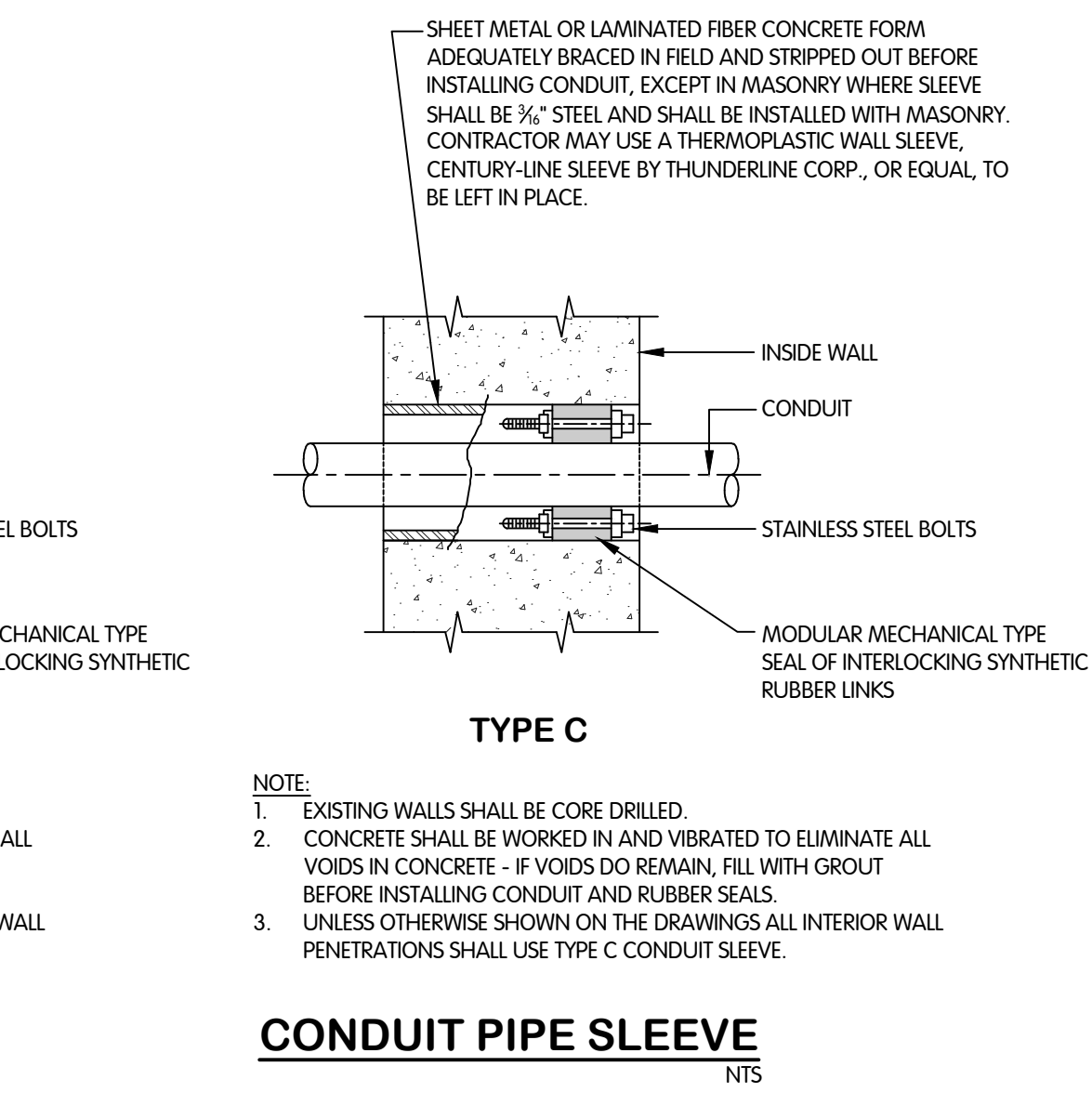
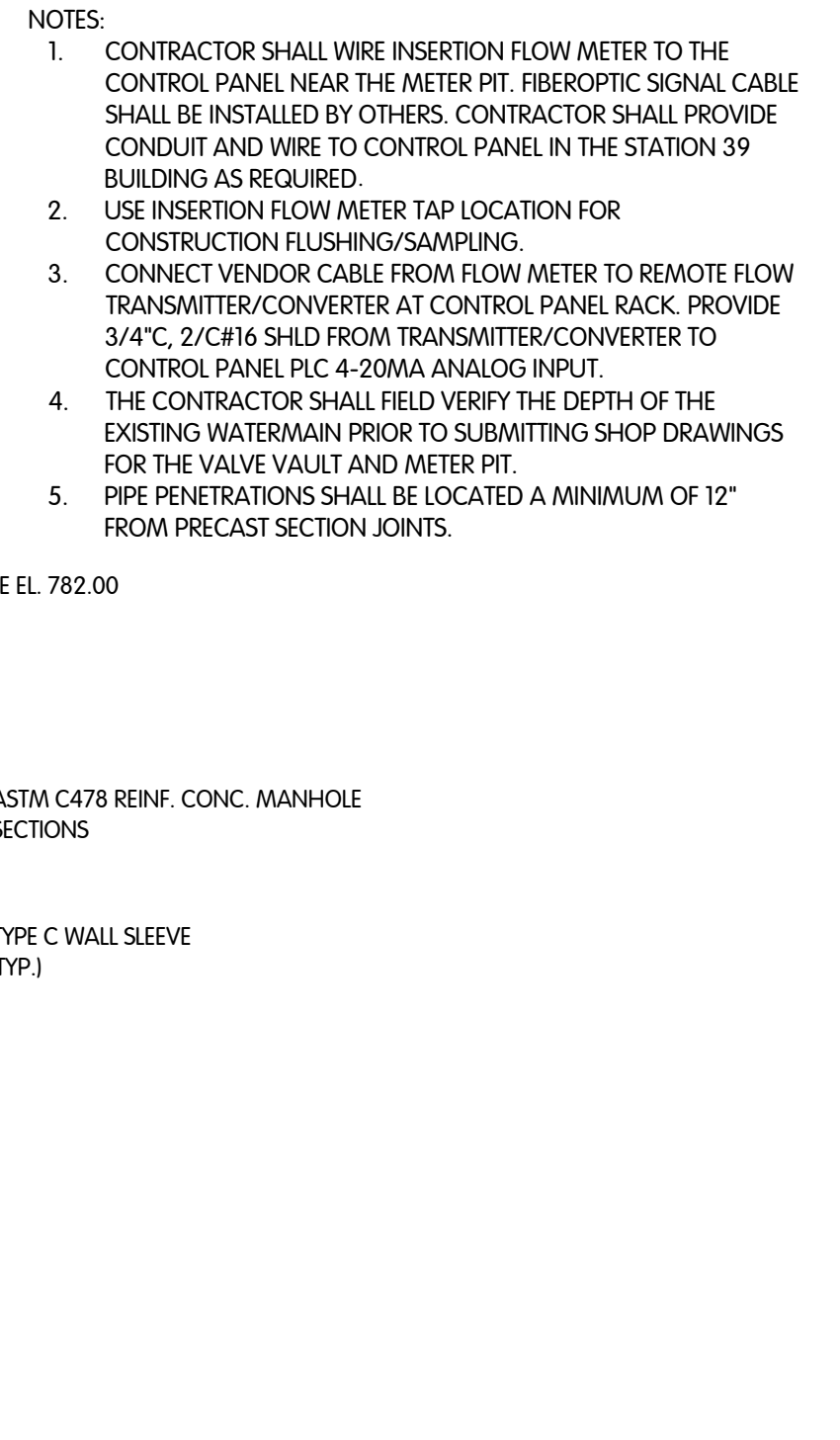
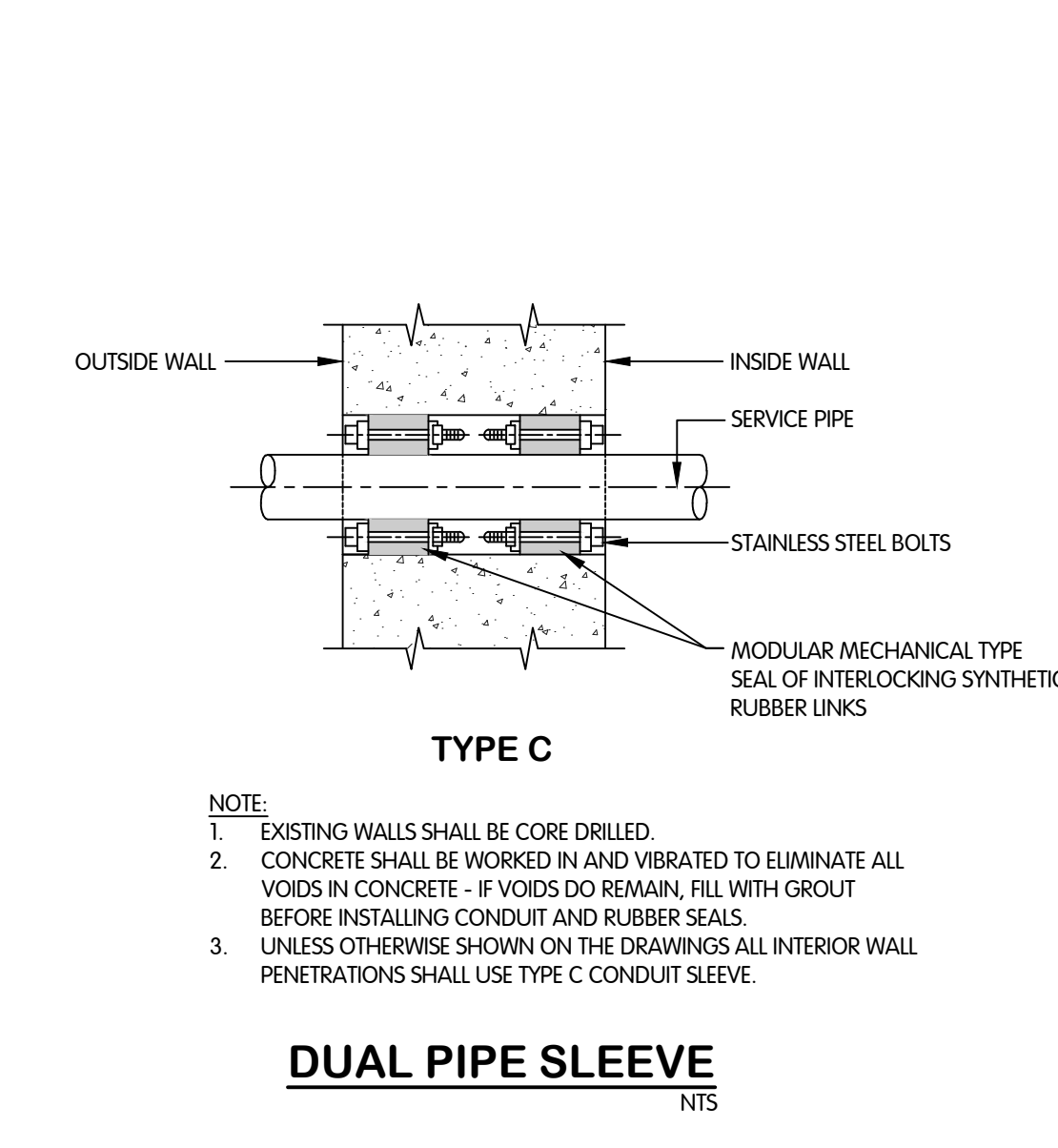
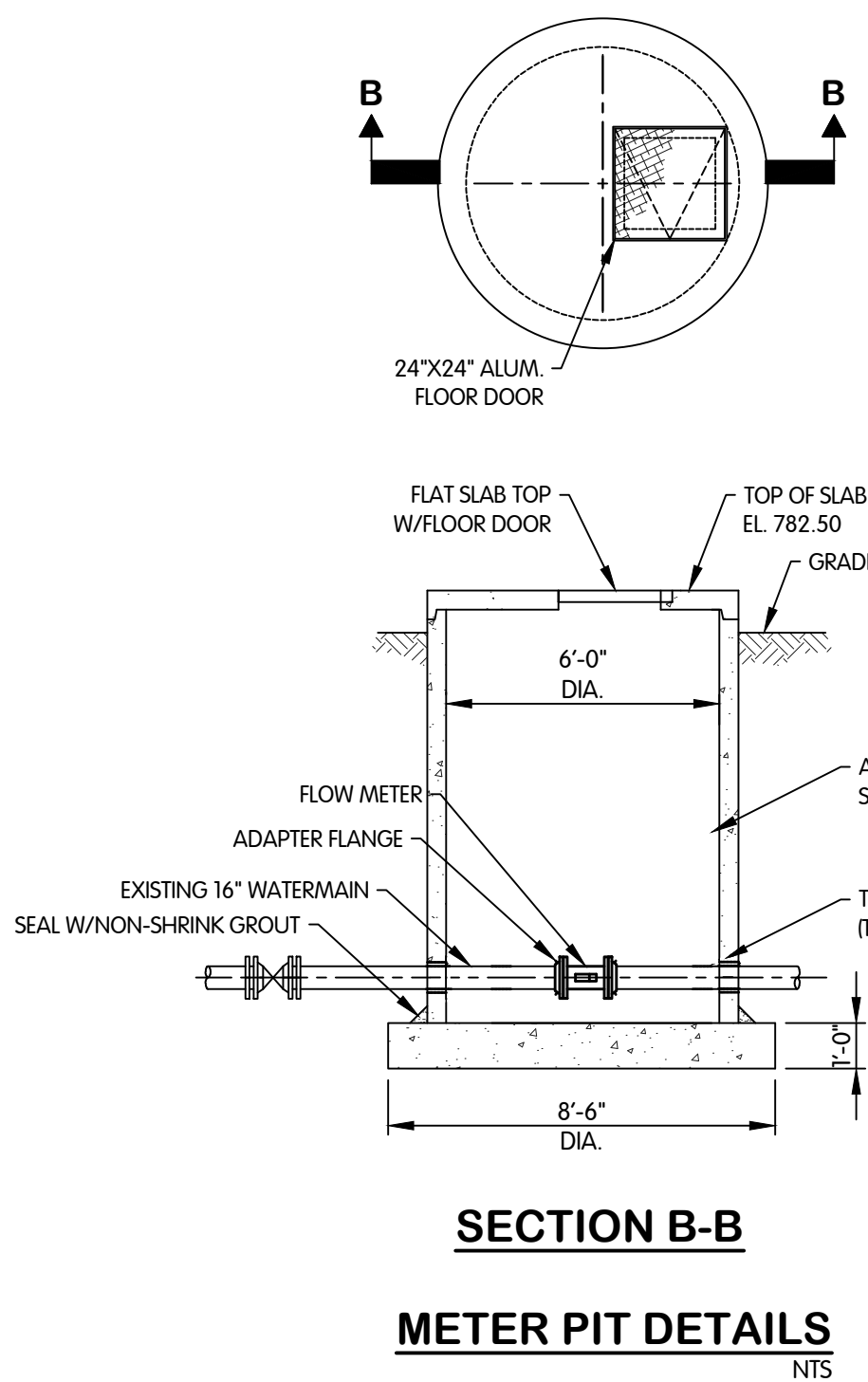
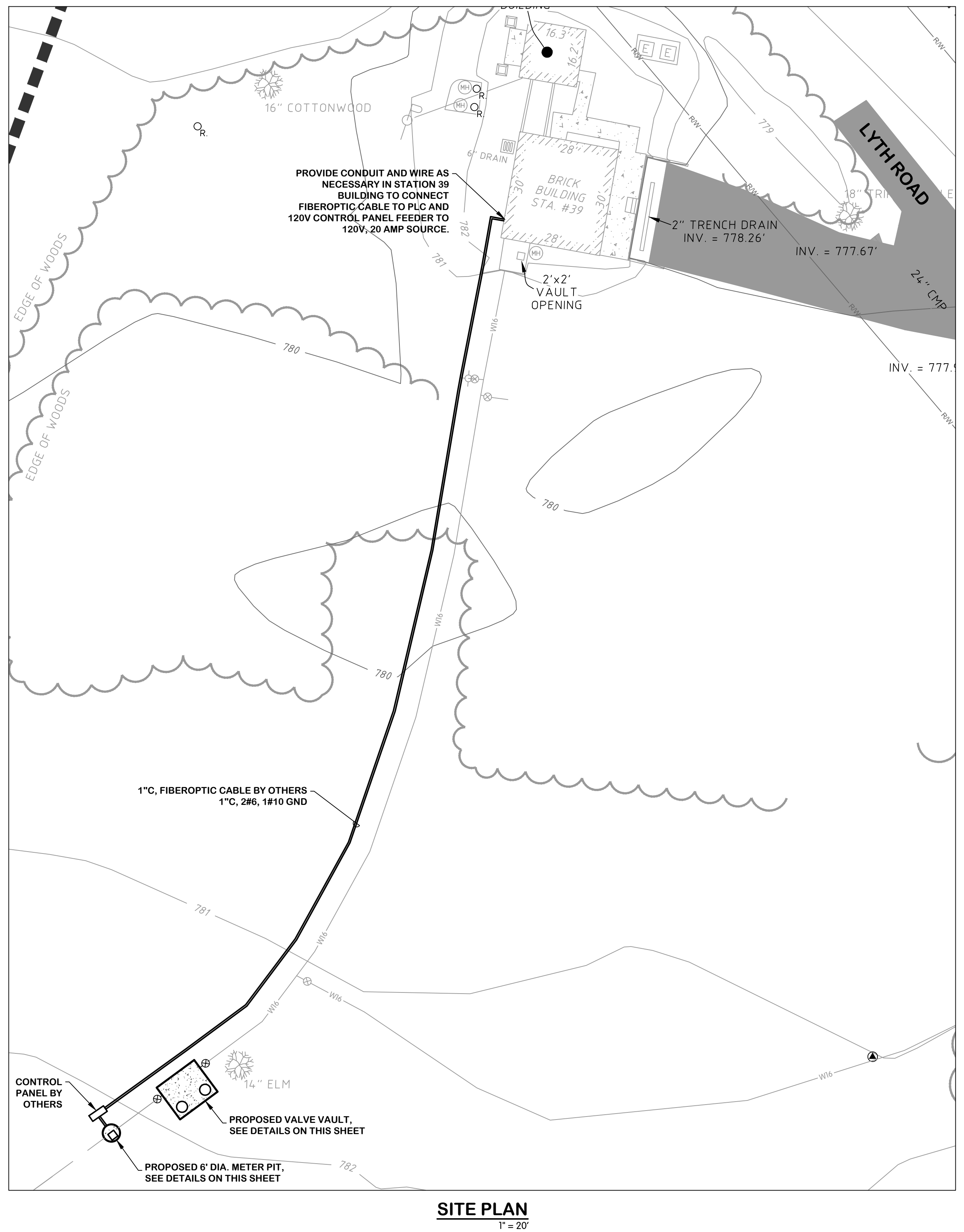
STATUS: PERMIT SET
 DATE: NOVEMBER, 2021

SHEET NO.

TC-1
 52 OF 53

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KAL-7675001STG02-STATION 39 - SITE PLAN & DETAILS
 4/11/2022 10:52 AM - CLENDER
 4/11/2022 10:55 AM



STATION 39
 SITE PLAN & DETAILS
 CITY OF KALAMAZOO, MICHIGAN - N 83RD STREET TRANSMISSION MAIN

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 DESIGNED TLK DRAWN CJAF CHECKED AJD
 STATUS PERMIT SET
 DATE NOVEMBER, 2021
 SHEET NO. C-1
 53 OF 53