

CITY OF KALAMAZOO

STREETS FOR ALL: MICHIKAL IMPROVEMENTS

progressive **ap**

1811 N. Main Rd. NE Grand Rapids, MI 49525 616.311.2664
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73350019

W+
WIGHTMAN

433 E. RANSOM ST.
KALAMAZOO, MI 49007
269.327.3532

www.gowightman.com

NOTES

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED THEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION.

THE PLACING OF PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SHALL BE DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS AMENDED.

IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, ALL CONTRACTORS SHALL CALL MISS DIG @ 811 OR 800-482-7171 FOR PROTECTION OF UNDERGROUND UTILITIES A MINIMUM OF THREE FULL WORKING DAYS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO BEGINNING EACH EXCAVATION IN ANY AREA. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

ALL WATER MAIN AND SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF KALAMAZOO STANDARD SPECIFICATIONS FOR WATER MAIN AND SERVICE INSTALLATION 2021.

TRAFFIC DATA MICHIKAL STREET

DESIGN SPEED	=	30 MPH
POSTED SPEED	=	30 MPH
ADT (2024)	=	9,000
ADT (2044)	=	16,250
DHV (2044)	=	1,625
% TRUCKS (2024 & 2044)	=	3%

UTILITIES

CABLE:	CHARTER COMMUNICATIONS 4176 COMMERCIAL AVENUE PORTAGE, MI 49002 BRYAN LONGCORE (269) 459-8746 BRYAN.LONGCORE2@CHARTER.COM	FIBER OPTIC:	LUMEN 19675 WEST 10 MILE ROAD SOUTHFIELD, MI 48075 DAVE HUCKFELDT (517) 812-2592 DAVE.HUCKFELDT@LUMEN.COM
	COMCAST CABLE COMMUNICATIONS 2626 TELEGRAPH ROAD SOUTHFIELD, MI 48034 JEFF DOBIES (734) 359-1669 JEFF_DOBIES@CABLE.COMCAST.COM		MIDWEST COMMUNICATIONS 60590 DECATUR ROAD CASSOPOLIS, MI 49031 LARRY POWELL (269) 963-7173 LARRYMCS@VOYAGER.NET
ELECTRIC:	CONSUMERS ENERGY 2500 E. CORK STREET KALAMAZOO, MI 49001 ANDRE TAYLOR (269) 337-2245 ANDRE.TAYLOR@CMSENERGY.COM		ZAYO FIBER GEORGE HUSS (443) 403-2023 GEORGE.HUSS@ZAYO.COM
	CONSUMERS ENERGY METRO 2500 E. CORK STREET KALAMAZOO, MI 49001 RYAN WALCOTT (616) 302-3041 RYAN.WALCOTT@CMSENERGY.COM		MCI FIBER GEORGE HUSS (443) 403-2023 GEORGE.HUSS@ZAYO.COM
GAS:	CONSUMERS ENERGY 2500 E. CORK STREET KALAMAZOO, MI 49001 KYLE OAK (269) 337-2366 KYLE.OAK@CMSENERGY.COM		CITY OF KALAMAZOO 415 E. STOCKBRIDGE AVENUE KALAMAZOO, MI 49001 RON RIDENOUR (269) 337-3601 RIDENOURR@KALAMAZOOCITY.ORG
	AT&T 2919 MILLCORK STREET KALAMAZOO, MI 49001 PHIL BARDOCZ (269) 384-4476 PB3132@ATT.COM	TRAFFIC:	CITY OF KALAMAZOO 415 E. STOCKBRIDGE AVENUE KALAMAZOO, MI 49001 DENNIS RANDOLPH, P.E., P.T.O.E. (269) 337-8612 RANDOLPHD@KALAMAZOOCITY.ORG
TELEPHONE:		WATER:	CITY OF KALAMAZOO 415 E. STOCKBRIDGE AVENUE KALAMAZOO, MI 49001 ERIC SAJTAR, P.E. (269) 491-3882 SAJTARE@KALAMAZOOCITY.ORG
PUBLIC WORKS:	CITY OF KALAMAZOO 415 E. STOCKBRIDGE AVENUE KALAMAZOO, MI 49001 ANTHONY LADD (269) 337-8601 LADDA@KALAMAZOOCITY.ORG	SEWER:	CITY OF KALAMAZOO 1415 NORTH HARRISON STREET KALAMAZOO, MI 49007 SOHIL MANIYANI (269) 216-1794 MANIYANIS@KALAMAZOOCITY.ORG
MISS DIG	811		

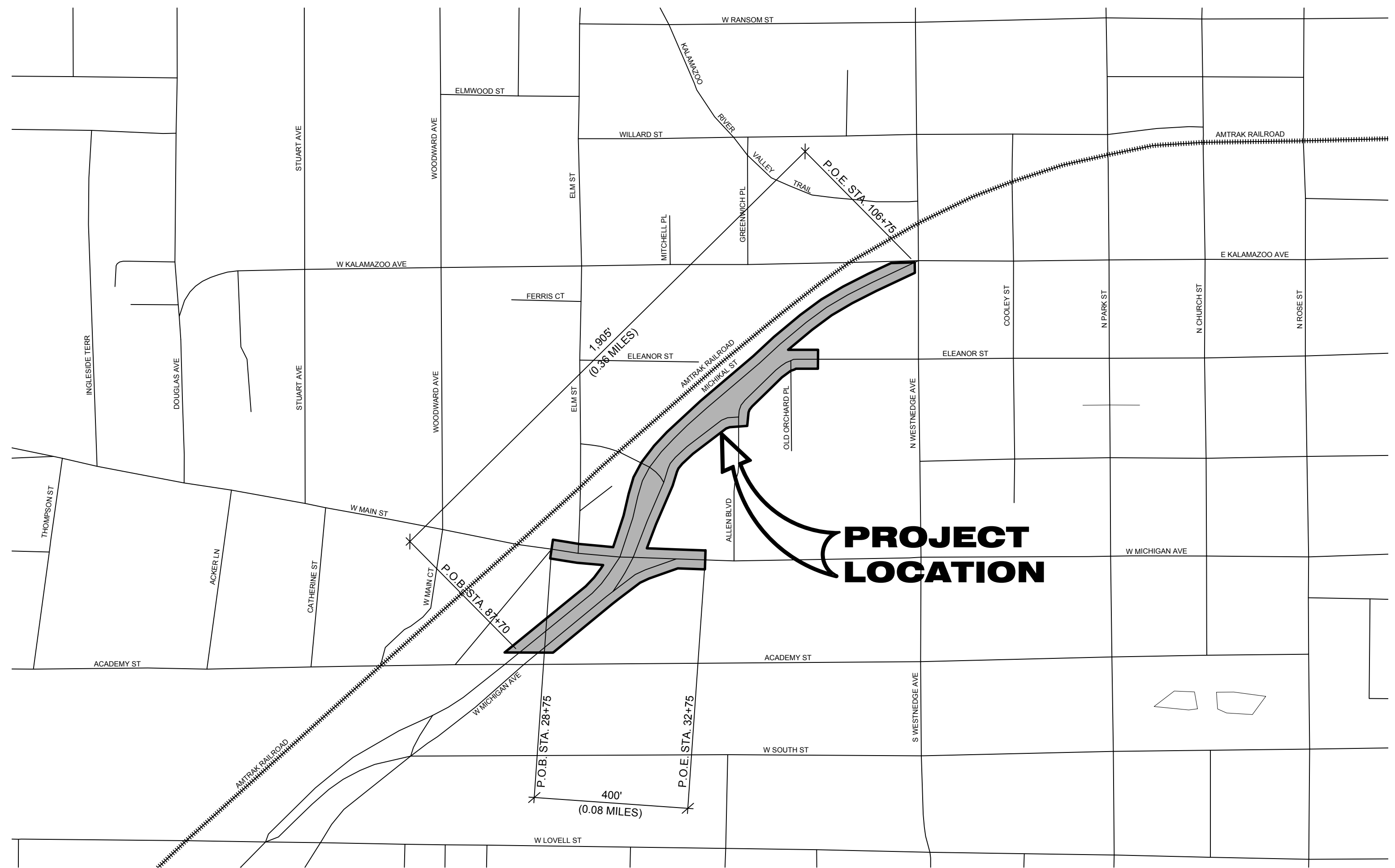
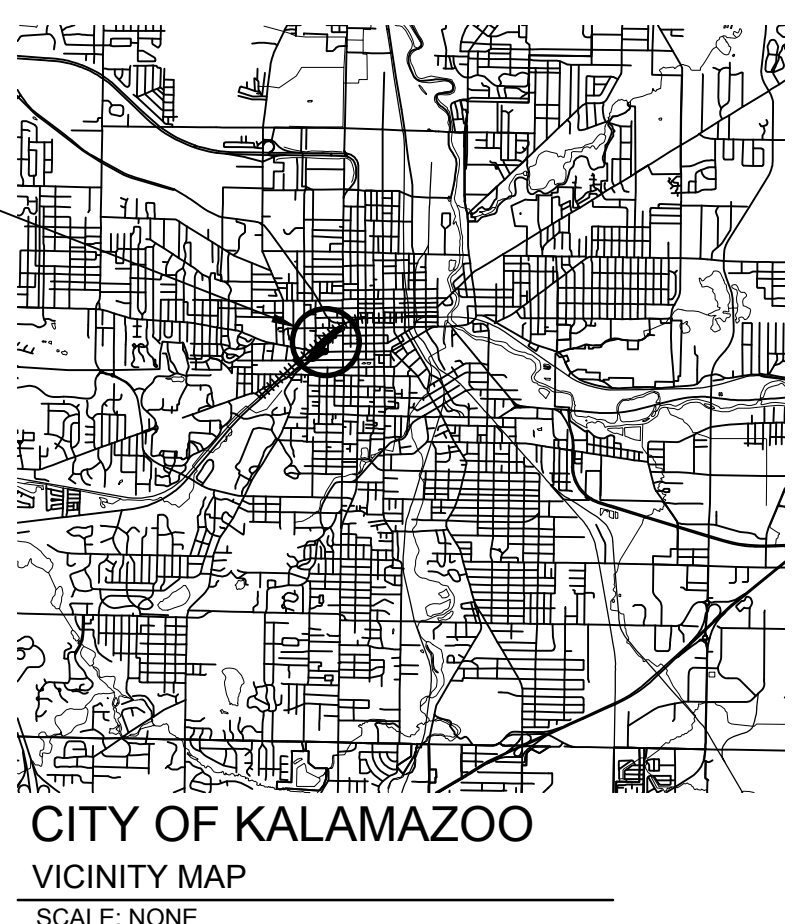
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C069	SOIL EROSION AND SEDIMENTATION CONTROL - W. MAIN - STA. 28+75 (P.O.B.) TO STA. 32+75 (P.O.E.)

PHILIP A. DOORLAG
6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



PROJECT LOCATION MAP
SCALE: 1" = 300'

CONTRACT FOR ROAD IMPROVEMENTS

0.36 MILES OF ROADWAY RECONSTRUCTION ON WEST MICHIGAN AVENUE / MICHIKAL STREET INCLUDING FULL DEPTH ROADWAY RECONSTRUCTION AND REALIGNMENT, STORM SEWER IMPROVEMENTS, CONCRETE CURB & GUTTER, CONCRETE SIDEWALK AND SHARED USE PATH, ADA RAMP IMPROVEMENTS, PAVEMENT MARKINGS, PERMANENT SIGNS, LANDSCAPING AND RESTORATION. CONVERSION OF EXISTING ROADWAYS FROM ONE-WAY TO TWO-WAY TRAFFIC.

0.08 MILES OF ROADWAY IMPROVEMENTS ON WEST MAIN STREET / WEST MICHIGAN AVENUE INCLUDING FULL DEPTH ROADWAY RECONSTRUCTION, 16" WATER MAIN AND WATER SERVICES, STORM SEWER IMPROVEMENTS, CONCRETE CURB & GUTTER, SIDEWALK AND ADA RAMP IMPROVEMENTS, TRAFFIC AND PEDESTRIAN SIGNAL IMPROVEMENTS, PAVEMENT MARKINGS, PERMANENT SIGNAGE, LANDSCAPING AND RESTORATION. CONVERSION OF EXISTING ROADWAYS FROM ONE-WAY TO TWO-WAY TRAFFIC.

CITY OF Kalamazoo

CITY OF KALAMAZOO
415 STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

APPROVAL

ANTHONY LADD, P.E. PUBL. SERV. DIV. MANAGER DATE

05/12/2023	PAD
ISSUED FOR BIDDING	
04/10/2023	PAD
90% SUBMITTAL	
03/07/24/2023	PAD
RE-ISSUED FOR EGLE PART 399 PERMIT	
02/07/03/2023	PAD
ISSUED FOR EGLE PART 399 PERMIT	
01/06/30/2023	PAD
70% SUBMITTAL	

REVISIONS

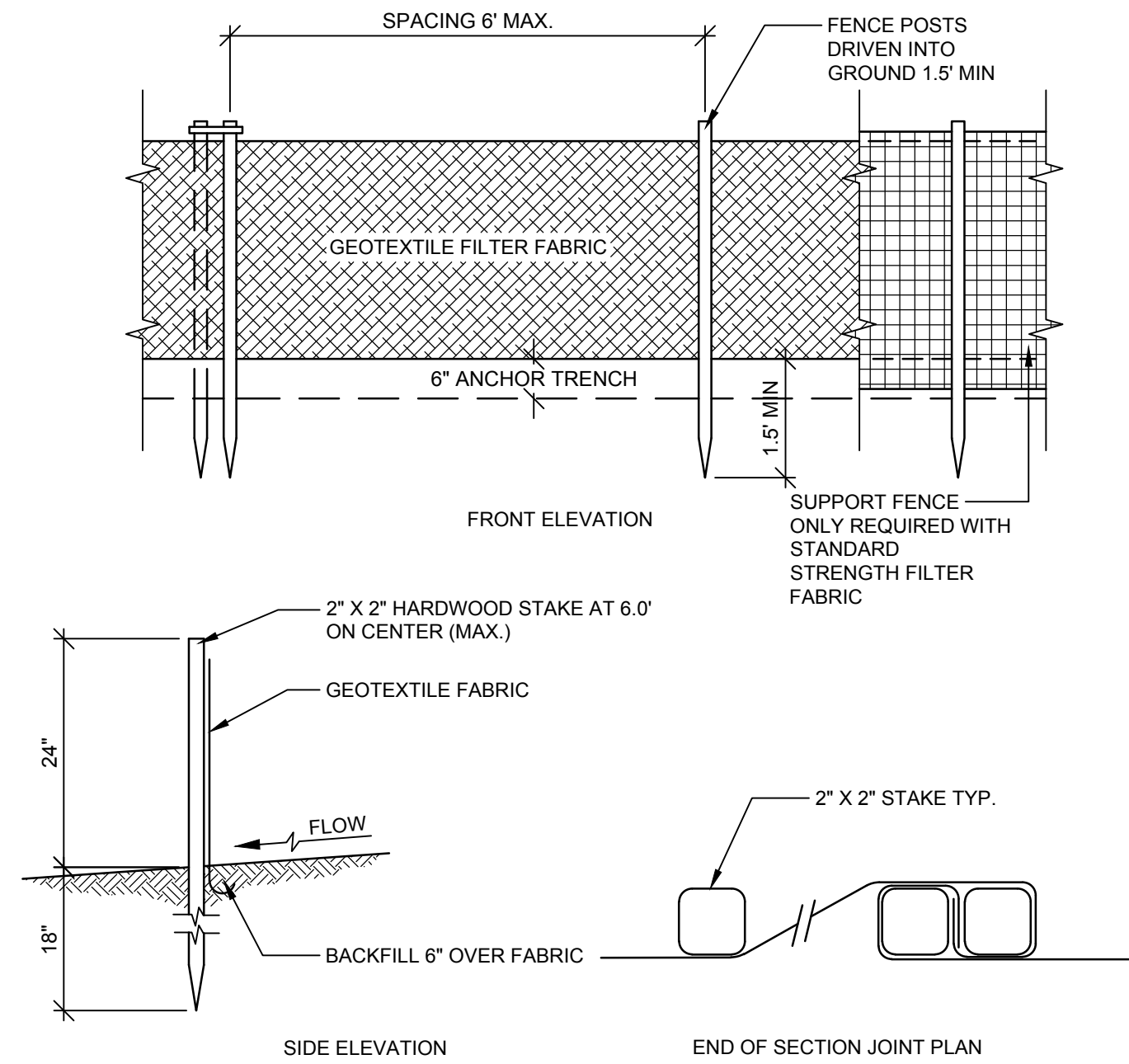
DATE: DECEMBER, 2023
SCALE: AS NOTED

COVER SHEET

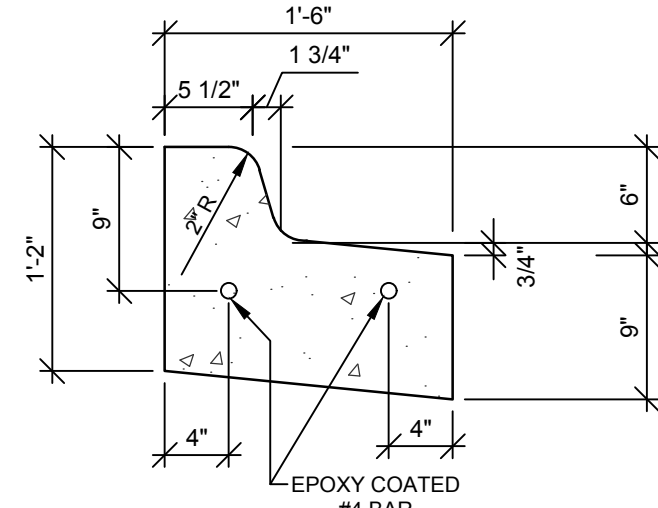
JOB No. 224022
C001

PROJECT NOTES

- THE "2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND "STANDARD PLANS" BY THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) ARE HEREBY INCORPORATED INTO THESE CONTRACT DOCUMENTS. COPIES OF THESE STANDARDS ARE AVAILABLE FOR INSPECTION AT THE OFFICE OF THE ENGINEER.
- THE PLACING OF TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), AS AMENDED.
- ALL WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION, INCLUDING 2021 CITY OF KALAMAZOO STANDARD SPECIFICATIONS FOR WATER MAIN AND SERVICE INSTALLATION.
- IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, ALL CONTRACTORS SHALL CALL MISS DIG @ 811 OR 800-482-7171 FOR PROTECTION OF UNDERGROUND UTILITIES A MINIMUM OF THREE FULL WORKING DAYS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO BEGINNING EACH EXCAVATION IN ANY AREA. MEMBERS WILL THIS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.
- THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE CITY OF KALAMAZOO TO NOTIFY THEM THAT WORK IS COMMENCING.
- THE SOIL BORINGS WERE TAKEN BY WIGHTMAN ON 3/28/2023 AND 4/17/2023.
- THE TEST BORINGS REPRESENT POINT INFORMATION AND MAY NOT HAVE ENCOUNTERED ALL THE TYPES AND MATERIALS PRESENT AT THE SITE. THESE BORING LOGS DO NOT CONSTITUTE A GUARANTEE OF THE SOIL OR GROUNDWATER CONDITIONS, OR THAT THE TEST BORINGS ARE AN EXACT REPRESENTATION OF THE SOIL OR GROUNDWATER CONDITIONS AT ALL POINTS ON THE SITE.
- SEE SHEET C006 FOR SOIL BORING LOGS AND PLAN SHEETS FOR SOIL BORING LOCATIONS.
- THE CONTRACTOR SHALL CONDUCT THE WORK IN SUCH A MANNER SO NO EXCAVATIONS ARE LEFT OPEN OVERNIGHT. IF THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL INSTALL A TEMPORARY FENCE TO PROTECT THE EXCAVATION AT THEIR OWN EXPENSE.
- DRIVE REPLACEMENT SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
- ALL GOVERNMENT CORNERS ON THIS PROJECT SHALL BE PRESERVED, WHETHER SHOWN OR NOT. IT MAY BE NECESSARY TO PLACE OR ADJUST MONUMENT BOXES, AS REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING DRAINAGE PATTERNS, AND SHALL RESOLVE ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH MAY RESULT FROM THE CONTRACTOR'S ACTIVITIES.
- ADEQUATE DUST CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER IN THE FIELD, TO BE INCLUDED IN THE VARIOUS ITEMS OF WORK
- DATUM REFERS TO NAVD88 DATUM.
- SPOT ELEVATIONS WITHIN VICINITY OF PROPOSED CONCRETE CURB AND GUTTER REFER TO EDGE OF METAL ELEVATIONS. PITCH PAVEMENT/CONCRETE GUTTERS UNIFORMLY BETWEEN PROPOSED SPOT ELEVATIONS.
- ALL DRIVES SHALL HAVE C4 DETAIL CURB AND GUTTER OR MATCH EXISTING DETAIL FROM THE TYPE M OPENING TO THE R.O.W. LINE OR LIMITS OF REMOVAL UNLESS NOTED FOR TYPE "L" OPENINGS.
- ALL SCALES FOR DRAWINGS AND DETAILS ARE BASED ON 24"x36" PRINTED PLANS. DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
- ALL RADII FOR CURB AND GUTTER ARE DIMENSIONED TO THE BACK OF THE CURB.
- TAPER THE CURBS TO ZERO HEIGHT AT SIDEWALKS. SIDEWALK RAMPS SHALL BE BARRIER FREE AND CONSTRUCTED IN ACCORDANCE WITH THE MDOT SIDEWALK RAMP AND DETECTABLE WARNING DETAILS (R-28 SERIES). SIDEWALK JOINTS SHALL BE IN ACCORDANCE WITH THE MDOT DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALKS (R-29 SERIES) UNLESS NOTED OTHERWISE.
- EXPANSION JOINTS FOR CONCRETE CURB AND GUTTER SHALL BE PLACED AT: CURB CORNERS, BEGINNING AND ENDING OF RADII, ALL CATCH BASINS AND MANHOLES, INTERSECTION OF CURB/SIDEWALK, CURB/RETAINING WALL, CURB/BUILDING, AND EXISTING/NEW CONSTRUCTION, AT LENGTHS OF NOT MORE THAN 120" APART, AND AS SPECIFIED ELSEWHERE.
- PAVT, REM, MODIFIED SHALL INCLUDE REMOVING THE FULL DEPTH OF CONCRETE PAVEMENT INCLUDING HMA OVERLAYS, REGARDLESS OF THICKNESS. HMA SURFACE, REM, MODIFIED SHALL INCLUDE REMOVING THE FULL DEPTH OF HMA PAVEMENT REGARDLESS OF THICKNESS. ALL CURB AND GUTTER REMOVAL SHALL BE MEASURED AS CURB AND GUTTER, REM PER FT. ALL REQUIRED SAW CUTTING SHALL BE INCLUDED IN THE RESPECTIVE REMOVAL ITEMS.
- EXISTING DRAINAGE STRUCTURE COVERS FOR STORM MANHOLES THAT ARE TO REMAIN SHALL BE REPLACED WITH COVER B, MODIFIED PRIOR TO FINAL ADJUSTMENT. EXISTING DRAINAGE STRUCTURE COVERS FOR SANITARY MANHOLES SHALL BE REPLACED WITH COVER Q, MODIFIED PRIOR TO FINAL ADJUSTMENT. EXISTING CATCH BASIN COVERS THAT ARE TO REMAIN SHALL BE REPLACED WITH COVER K PRIOR TO FINAL ADJUSTMENT. INCLUDED IN THE NEW CASTING ITEMS SHALL BE TEMPORARY PLATING OF THE EXISTING STRUCTURE THROUGH THE LEVELING COURSE. FINAL ADJUSTMENT SHALL BE PAID FOR AS DR STRUCTURE COVER, ADJ, CASE ____.
- MAINTAIN 10 FOOT MINIMUM HORIZONTAL SEPARATION BETWEEN THE SANITARY OR STORM SEWER AND WATER MAIN UTILITIES. PROVIDE 18" MINIMUM VERTICAL SEPARATION WHERE THE WATER MAIN CROSSES A SANITARY OR STORM SEWER.
- ANY SANITARY SEWER, SANITARY SEWER SERVICE LEADS, WATER MAIN, WATER SERVICES, OR STORM SEWER THAT IS DAMAGED BY THE CONTRACTOR DURING THEIR OPERATIONS SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AND AT THE CONTRACTOR'S EXPENSE.
- THE TACTILE PLATES FOR THE ADA RAMPS WILL BE COLONIAL RED IN COLOR TO MATCH EXISTING DETECTABLE WARNING PLATES THROUGHOUT THE CITY. TRUNCATED DOMES SHALL BE DUCTILE IRON MANUFACTURED AND INSTALLED IN ACCORDANCE WITH MDOT AND ADA ACCESSIBILITY GUIDELINES FOR DETECTABLE WARNINGS AND THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.
- PROPERTY OWNER'S NAMES, WHERE SHOWN, ARE FOR INFORMATION ONLY, AND THEIR ACCURACY IS NOT GUARANTEED.
- TAPERED OVERLAPPING JOINTS WILL NOT BE ALLOWED IN THE TOP COURSE OF THE HMA SURFACE. TAPERED OVERLAPPING LONGITUDINAL JOINTS ARE RESTRICTED TO BASE AND LEVELING COURSE ONLY. JOINTS IN THE VARIOUS COURSES SHALL BE STAGGERED BY A MINIMUM OF 6 INCHES WITH THE JOINTS IN THE TOP COURSE PLACED ON LANE LINES.
- ANY EXISTING PROPERTY CORNERS SHALL BE PRESERVED. CORNERS THAT ARE DISTURBED SHALL BE REPLACED BY A SURVEYOR LICENSED IN THE STATE OF MICHIGAN AT THE CONTRACTOR'S EXPENSE.
- THE WATER MAIN LINE STOP QUANTITY IS BASED ON ASSUMED CONDITIONS AT EACH CONNECTION. ACTUAL USE AND LOCATION OF WATER MAIN LINE STOPS SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.
- IF SITE CONDITIONS ARE SUCH THAT IT IS NOT DESIRABLE FOR HYDRANTS TO DRAIN INTO THE SURROUNDING SOIL (I.E. WHEN HYDRANT HAS LESS THAN 10 FEET OF SEPARATION FROM A SEWER, HIGH GROUND WATER, IMPERVIOUS OR CONTAMINATED SOIL, ECT.), HYDRANT DRIP VALVE PLUG(S) SHALL BE INSTALLED BY THE CONTRACTOR ON SITE. FINAL DETERMINATION ON DRIP VALVE PLUG INSTALLATION SHALL BE MADE BY THE ENGINEER OR HIS REPRESENTATIVE. AS CONSTRUCTED RECORDS SHALL NOTE WHETHER OR NOT THE DRIP VALVE PLUG WAS INSTALLED.

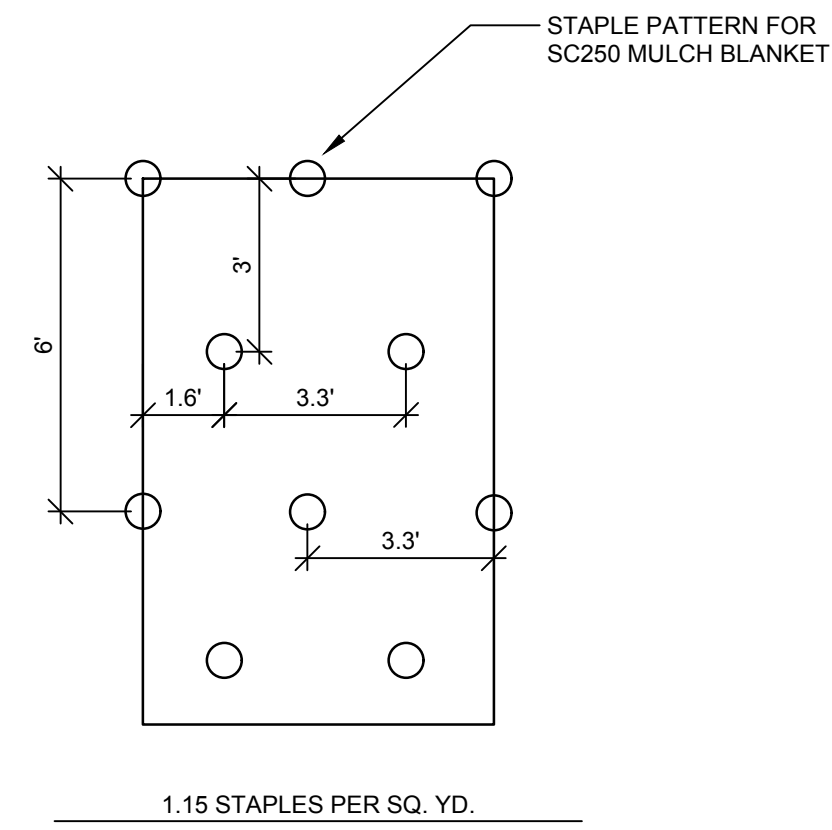


SEDIMENT CONTROL FENCE
SCALE: NONE



CURB AND GUTTER, CONC, DET F2 (TIPOUT)
SCALE: NONE

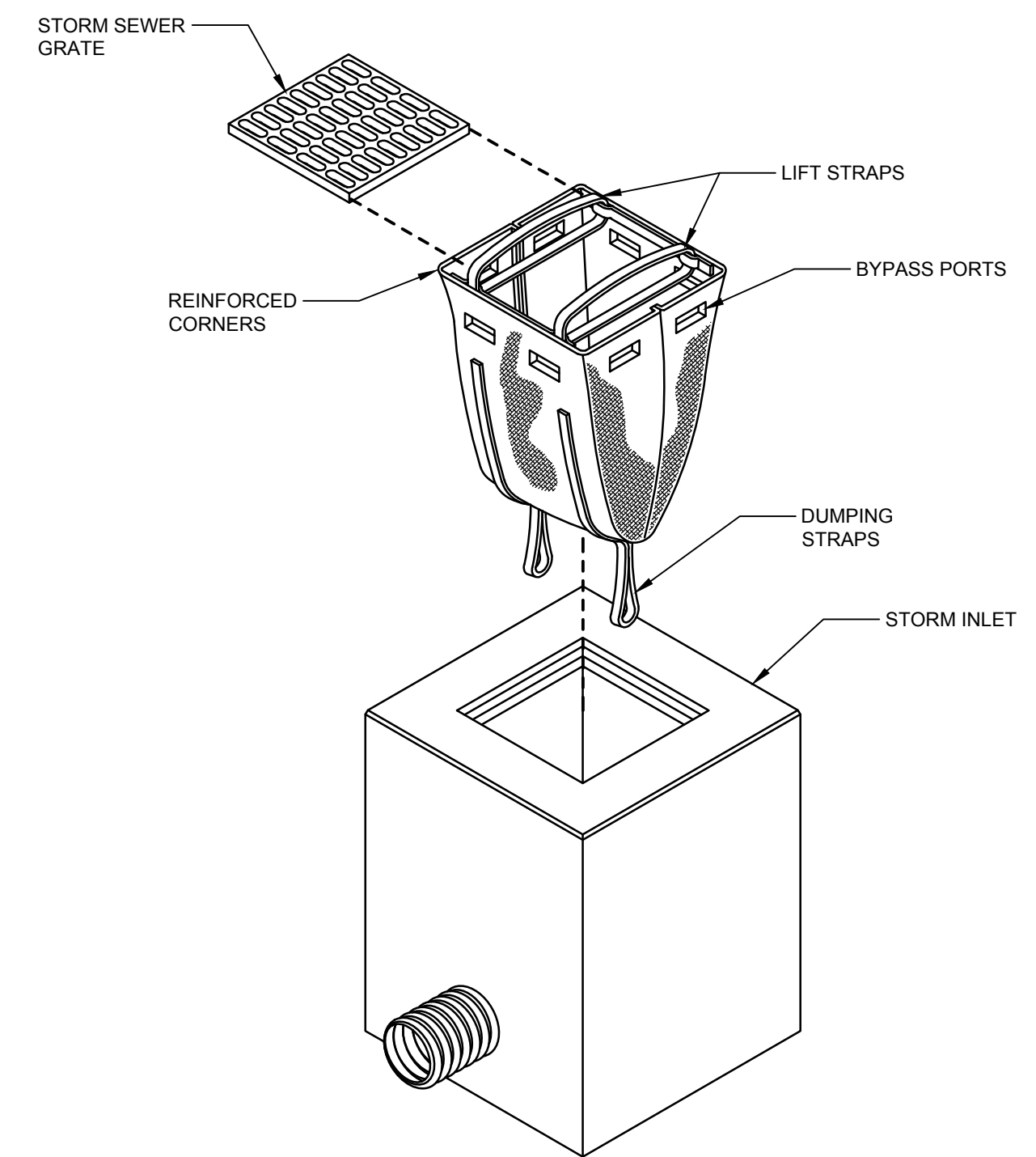
APPLIES TO:
MICHIKAL STREET PEDESTRIAN ISLAND STA. 99+80 TO STA. 100+20
MICHIKAL STREET AND W KALAMAZOO AVENUE INTERSECTION ISLAND
PAID AS CURB AND GUTTER, CONC, DET F2



MULCH BLANKET STAPLE PATTERN
SCALE: NONE

SILT FENCE NOTES

- THE HEIGHT OF SILT FENCE SHALL NOT EXCEED 36 INCHES ABOVE GROUND.
- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM OF A 6 INCH OVERLAP, AND SECURELY SEALED.
- POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 18 INCHES).
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4-INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1-INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2-INCHES.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 6-INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH.
- FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA STRENGTH FILTER FABRIC IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.
- THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
- SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED



NOTES:
REMOVE INLET PROTECTION WHEN THE CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED.

INLET PROTECTION DETAIL
SCALE: NONE

LEGEND

EXISTING	PROPOSED	
C	C	CABLE
E	E	ELECTRIC LINE
OHE	OHE	ELECTRIC LINE (OVERHEAD)
FO	FO	FIBER OPTIC LINE
G	G	GAS LINE
T	T	TELEPHONE LINE
X	X	FENCE
---	---	FORCEMAIN
---	---	GUARDRAIL
---	---	SANITARY SEWER
---	---	STORM SEWER
---	---	WATER MAIN
---	---	CENTER LINE
---	---	EXISTING TREE LINE
---	---	EXISTING DITCH LINE
---	---	EASEMENT LINE/GRADING PERMIT
---	---	GRADING LIMITS/LIMITS OF DISTURBANCE
---	---	PROPERTY LINE
---	---	RIGHT-OF-WAY LINE
---	---	SECTION LINE
---	---	TO BE ABANDONED

⚡	= ANTENNA	⊛	= PAVEMENT/SOIL BORING
⊠	= CATCH BASIN	⊙	= PROPOSED HYDRANT
⊡	= CABLE RISER BOX	⊕	= PROPOSED GATE VALVE & BOX
⊙	= CLEAN OUT	⊕	= PROPOSED GATE VALVE & VAULT
⊠	= CURB INLET	⊕	= PROPOSED REDUCER
⊙	= ELECTRIC MANHOLE	⊕	= PROPOSED SANITARY MANHOLE
⊙	= FIRE HYDRANT	⊕	= PROPOSED STORM MANHOLE
⊙	= FOUND IRON PIPE	⊕	= STORM MANHOLE
⊙	= GAS VALVE	⊕	= TELEPHONE MANHOLE
⊙	= GUY ANCHOR	⊕	= TELEPHONE RISER BOX
⊙	= LIGHT POLE	⊕	= TURNING POINT/TRAVERSE
⊙	= MAILBOX	⊕	= UTILITY POLE
⊙	= MONITORING WELL	⊕	= VAULT
⊙	= POST	⊕	= WATER ELEVATION
⊙	= SATELLITE DISH	⊕	= WATER MANHOLE
⊙	= SANITARY MANHOLE	⊕	= WATER METER
⊙	= SECTION CORNER	⊕	= WATER VALVE
⊙	= SIGN	⊕	= WATER SPIGOT
		⊕	= WELL

TREE DESIGNATORS



QUANTITIES THIS SHEET	
ITEM	QTY.
Mobilization, Max	1 LSUM
Tree, Rem, 19 inch to 36 inch	1 Ea
Tree, Rem, 37 inch or Larger	1 Ea
Tree, Rem, 6 inch to 18 inch	1 Ea
Dr Structure, Rem	5 Ea
Sewer, Rem, Less than 24 inch	250 Ft
Curb and Gutter, Rem	100 Ft
Masonry and Conc Structure, Rem	100 Cyd
Sidewalk, Rem	50 Syd
Exploratory Investigation, Vertical	100 Ft
Pavt, Rem, Modified	500 Syd
Subgrade Undercutting, Type II	1,000 Cyd
Erosion Control, Silt Fence	500 Ft
Subbase, CIP	500 Cyd
Aggregate Base, 8 inch, Modified	500 Syd
Maintenance Gravel	1,000 Ton
Sewer Tap, 6 inch	1 Ea
Sewer Tap, 12 inch	1 Ea
Sewer Tap, 15 inch	1 Ea
Sewer Tap, 18 inch	1 Ea
Dr Structure Cover, Adj, Case 1, Modified	1 Ea
Dr Structure Cover, Adj, Case 2	1 Ea
Dr Structure Cover, Type D	1 Ea
Dr Structure Cover, Type G	1 Ea
Dr Structure Cover, Type K	1 Ea
Dr Structure, Adj, Add Depth	10 Ft
Dr Structure, Tap, 12 inch	1 Ea
Dr Structure Cover, Type B, Modified	1 Ea
Dr Structure Cover, Type Q, Modified	1 Ea
HMA Surface, Rem	100 Syd
Conc Base Case, Nonreinf, 6 inch	10 Syd
Driveway, Nonreinf Conc, 6 inch	50 Syd
Curb and Gutter, Conc, Det C4	50 Ft
Curb and Gutter, Conc, Det F2	50 Ft
Sidewalk, Conc, 4 inch	350 Sft
Sidewalk, Conc, 6 inch	50 Sft
Curb Ramp, Conc, 6 inch	50 Sft
Rem Spec Mrlng	500 Sft
Minor Traf Devices	1 LSUM
Pavt Mrlng, Longit, 6 inch or Less Width, Rem	250 Ft
Pavt Mrlng, Type NR, Paint, 24 inch, Stop Bar	25 Ft
Pavt Mrlng, Type NR, Paint, Lt Turn Arrow	1 Ea
Pavt Mrlng, Type NR, Paint, Rt Turn Arrow	1 Ea
Pavt Mrlng, Type NR, Paint, Thru Arrow	1 Ea
Pavt Mrlng, Wet Reflective, Type NR, Paint, 4 inch, White, Temp	100 Ft
Pavt Mrlng, Wet Reflective, Type NR, Paint, 4 inch, Yellow, Temp	100 Ft
Pavt Mrlng, Wet Reflective, Type R, Tape, 4 inch, White, Temp	100 Ft
Pavt Mrlng, Wet Reflective, Type R, Tape, 4 inch, Yellow, Temp	100 Ft
Plastic Drum, Fluorescent, Furn	100 Ea
Plastic Drum, Fluorescent, Oper	100 Ea
Sign Cover	50 Ea
Traf Regulator Control	1 LSUM
Slope Restoration, Non-Freeway, Type B	1,000 Syd
Light Std Arm, Rem	1 Ea
Light Std Fdn, Rem	1 Ea
Light Std Shaft, Rem	1 Ea
TS Head, Adj	4 Ea
Insulation Board, 2 inch	100 Sft
Gate Box, Adj, Case 1, Modified	1 Ea
Gate Box, Adj, Case 2	1 Ea
Water Shutoff, Adj, Case 2	1 Ea
Water Shutoff, Adj, Case 1	1 Ea
Compact Ductile Iron Fittings	1,000 Lb

WIGHTMAN

433 E. RANSOM ST.
KALAMAZOO, MI 49007
269.327.3532

www.wightman.com

PROJECT NAME:
STREETS FOR ALL: MICHIKAL IMPROVEMENTS

CITY OF
KALAMAZOO
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

DATE	DESCRIPTION	BY
05/12/01/2023	ISSUED FOR BIDDING	PAD
04/10/25/2023	90% SUBMITTAL	PAD
01/06/30/2023	70% SUBMITTAL	PAD

REVISIONS

DATE: DECEMBER, 2023
SCALE: NONE

PROJECT NOTES, DETAILS, AND MISC. QUANTITIES

JOB NO. 224022
C002
OF 69



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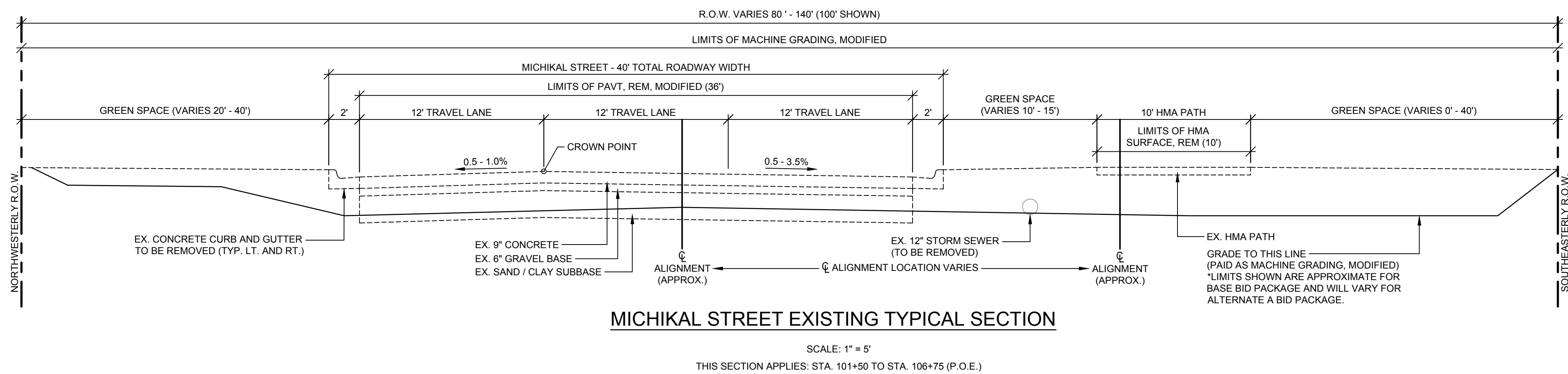
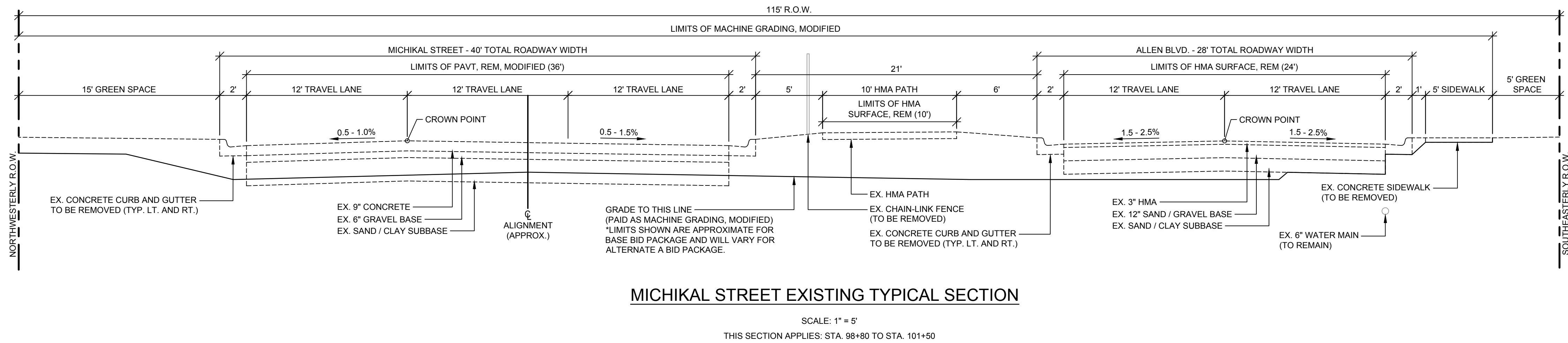
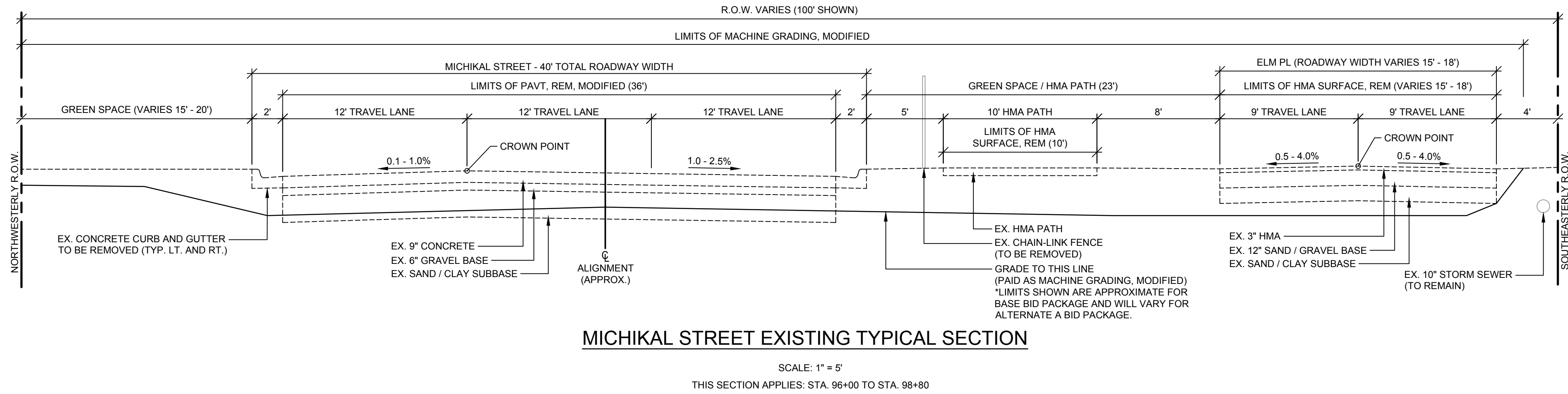
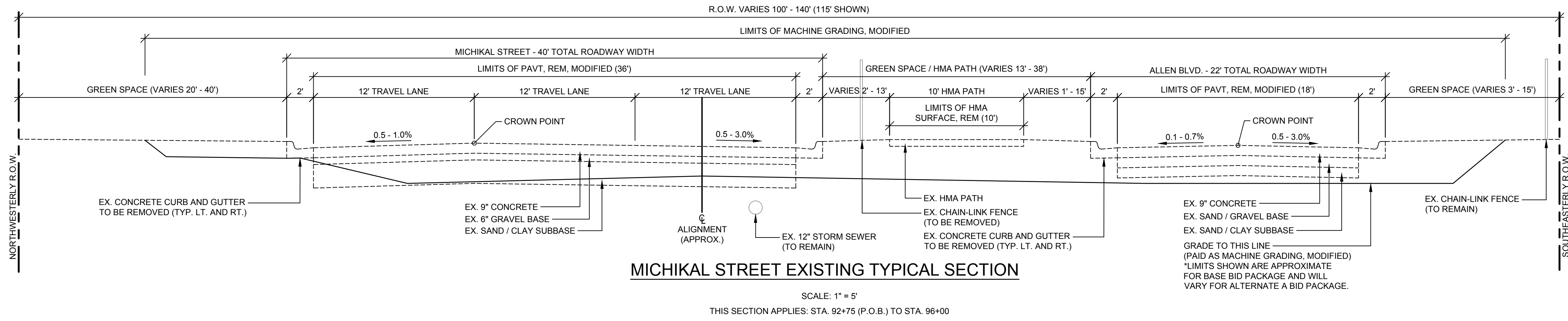
www.gowightman.com

PHILIP A. DOORLAG
6201067363

PROJECT NAME:

**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



05 12/01/2023 PAD
ISSUED FOR BIDDING

04 10/25/2023 PAD
90% SUBMITTAL

01 08/30/2023 PAD
70% SUBMITTAL

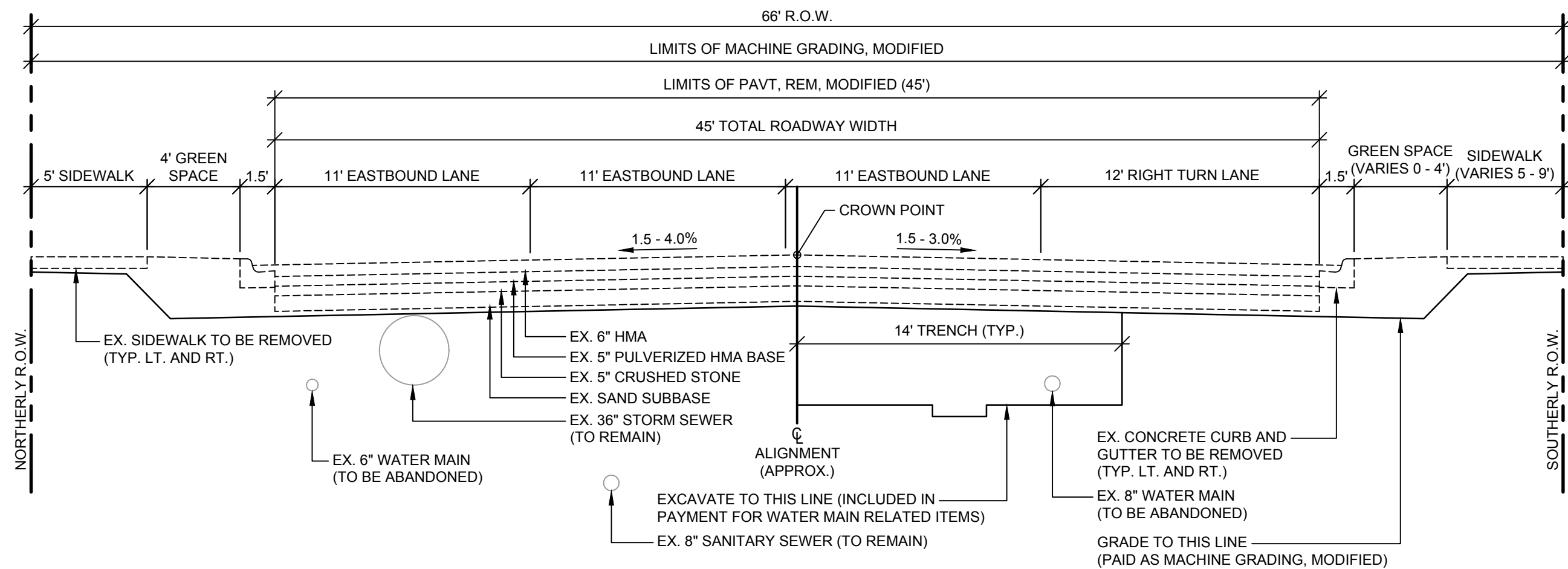
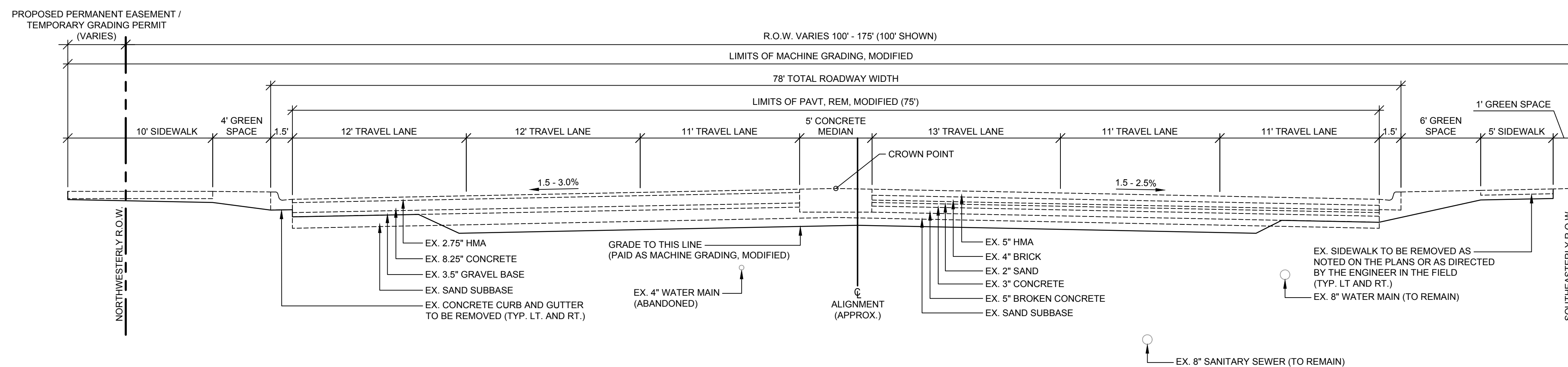
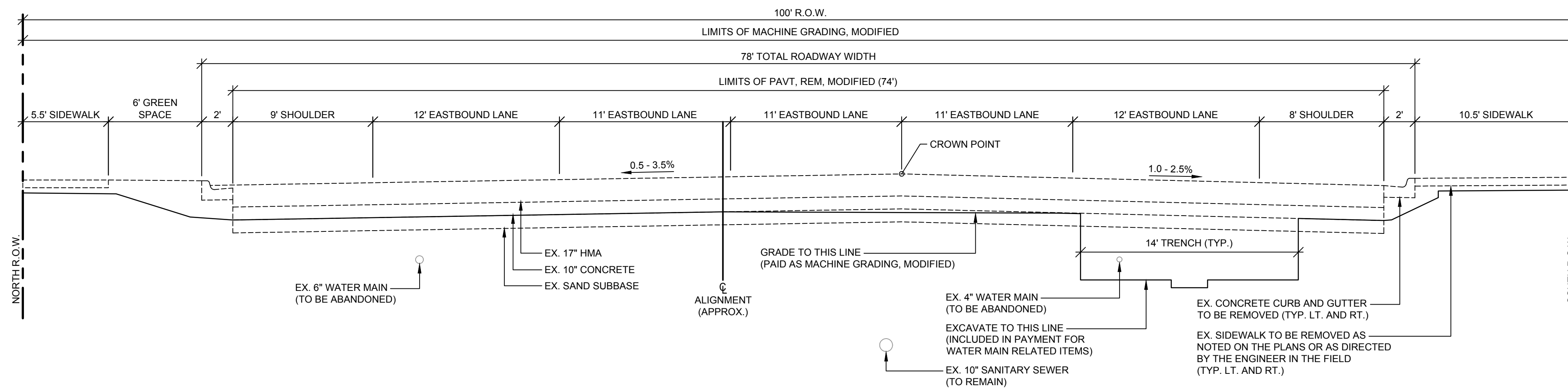
REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 5'

EXISTING TYPICAL SECTIONS

JOB No. 224022

C003
OF 69

**W MAIN STREET EXISTING TYPICAL SECTION**SCALE: 1" = 5'
THIS SECTION APPLIES: STA. 28+75 (P.O.B.) TO STA. 30+00 (P.O.E.)**W MICHIGAN AVENUE EXISTING TYPICAL SECTION**SCALE: 1" = 5'
THIS SECTION APPLIES: STA. 87+75 (P.O.B.) TO STA. 91+00 (P.O.E.)
W MICHIGAN AVENUE STA. 30+90 = W MICHIGAN AVENUE STA. 91+87**W MICHIGAN AVENUE EXISTING TYPICAL SECTION**SCALE: 1" = 5'
THIS SECTION APPLIES: STA. 30+00 (P.O.B.) TO STA. 32+75 (P.O.E.)
W MICHIGAN AVENUE STA. 30+90 = W MICHIGAN AVENUE STA. 91+87

05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 5'

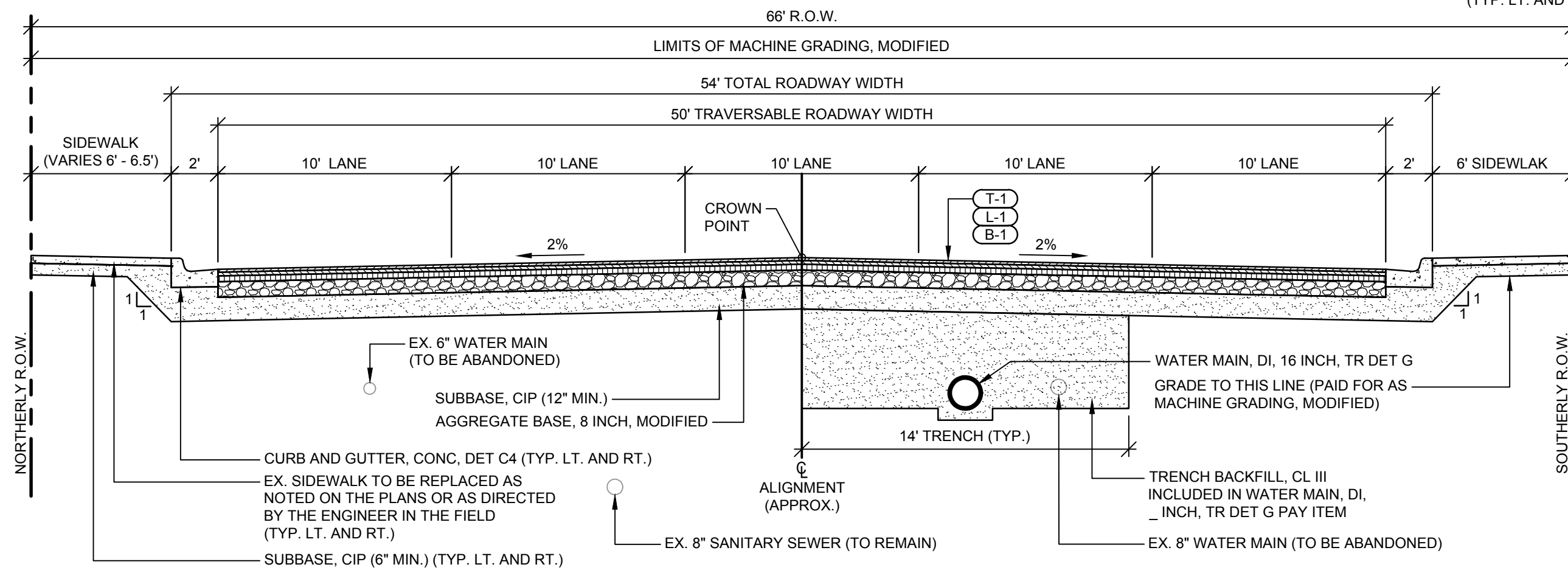
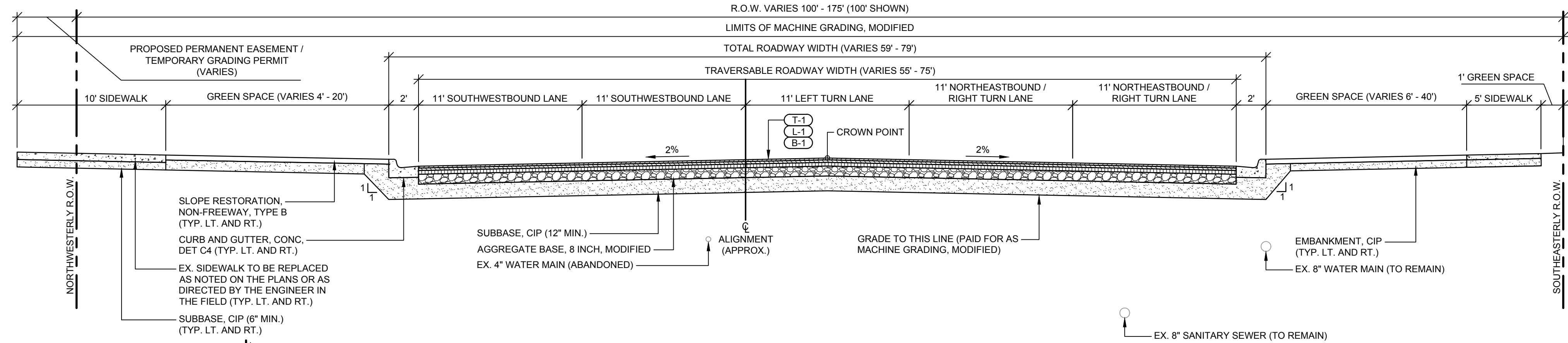
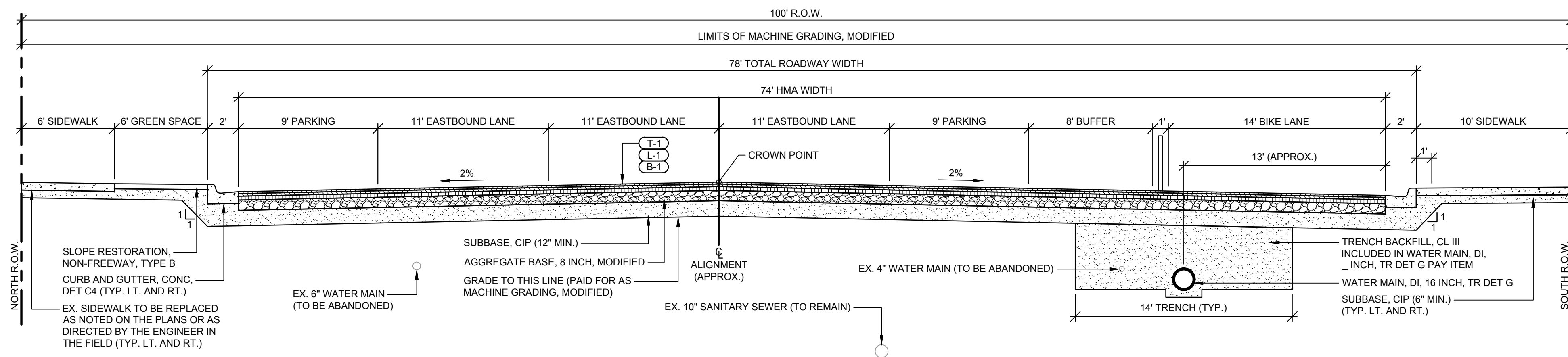
EXISTING TYPICAL SECTIONS

05/12/2023	PAD	ISSUED FOR BIDDING
04/10/25/2023	PAD	90% SUBMITTAL
01/08/30/2023	PAD	70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
 SCALE: 1" = 5'

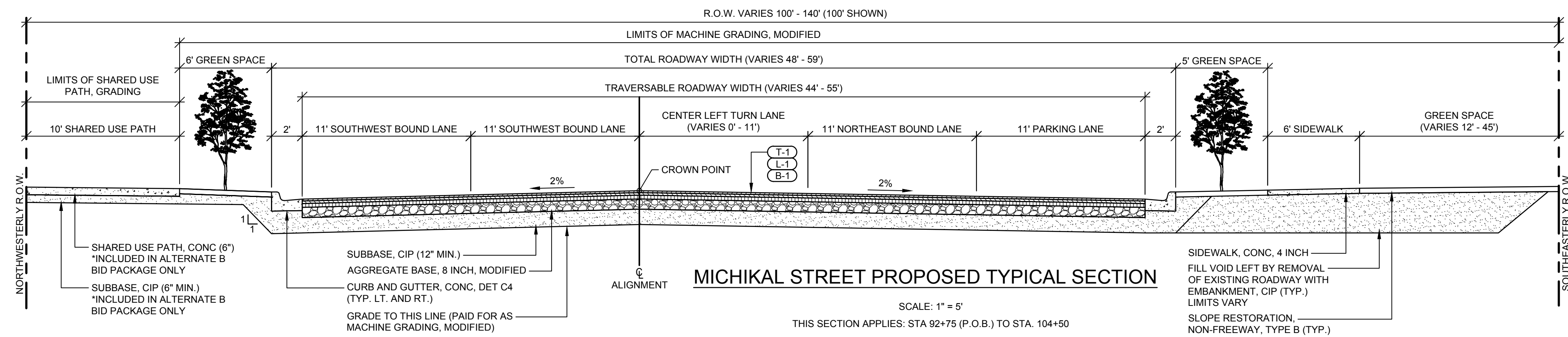
PROPOSED TYPICAL SECTIONS
 BASE BID
 FULL ROAD
 RECONSTRUCTION



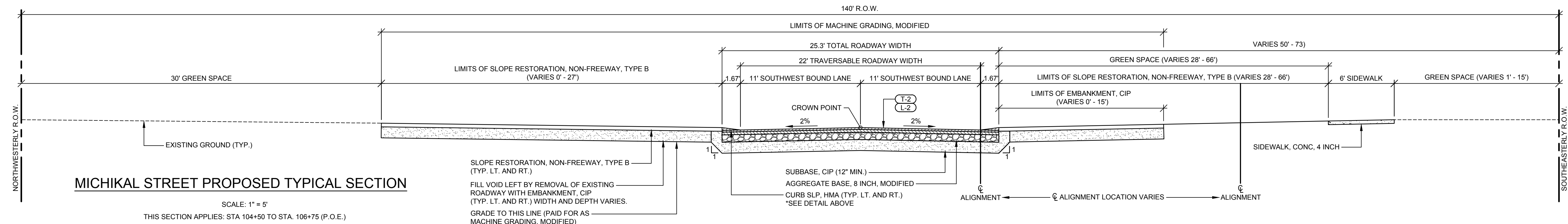
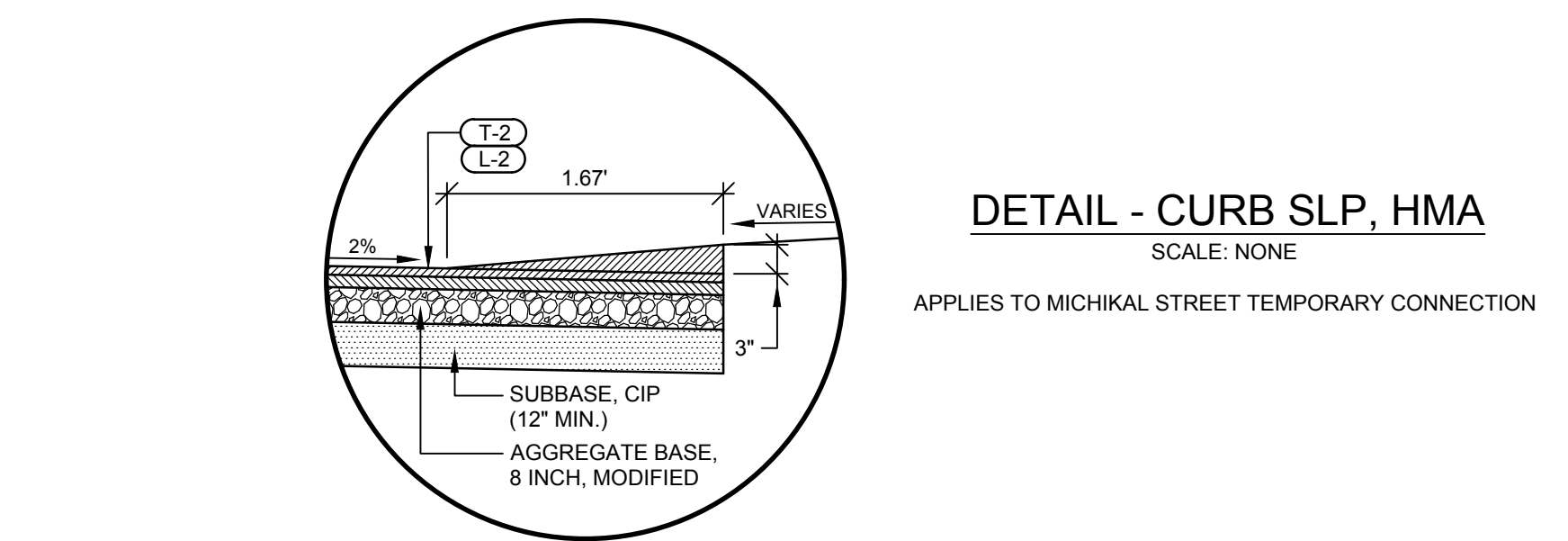
W MAIN STREET PROPOSED TYPICAL SECTION

	ITEM	AWI	YIELD	PERFORMANCE GRADE	NOTES
T-1	HMA, 5EML (TOP)	260	165#/SYD	P.G. 64 - 28	MICHIKAL, W MAIN, W MICHIGAN MAINLINE PAVING
L-1	HMA, 4EML (LEVELING)		220#/SYD	P.G. 64 - 28	MICHIKAL, W MAIN, W MICHIGAN MAINLINE PAVING
B-1	HMA, 3EML (BASE)		330#/SYD	P.G. 64 - 28	MICHIKAL, W MAIN, W MICHIGAN MAINLINE PAVING
T-2	HMA, 4EML (TOP)	260	220#/SYD	P.G. 64 - 28	MICHIKAL TEMPORARY CONNECTION
L-2	HMA, 3EML (LEVELING)		330#/SYD	P.G. 64 - 28	MICHIKAL TEMPORARY CONNECTION
4EML	HMA, APPROACH (LEVELING)		165#/SYD	P.G. 64 - 28	DRIVEWAY APPROACHES
SEML	HMA, APPROACH (TOP)	260	165#/SYD	P.G. 64 - 28	DRIVEWAY APPROACHES
4EML	HMA, APPROACH (LEVELING)		220#/SYD	P.G. 64 - 28	SIDE STREET APPROACHES
SEML	HMA, APPROACH (TOP)	260	165#/SYD	P.G. 64 - 28	SIDE STREET APPROACHES
	HAND PATCHING (HMA, 5EML)		165 - 220#/SYD	P.G. 64 - 28	
	HMA BOND COAT (NOT A PAY ITEM)		0.05 TO 0.15 GAL/SYD	SS - 1h	

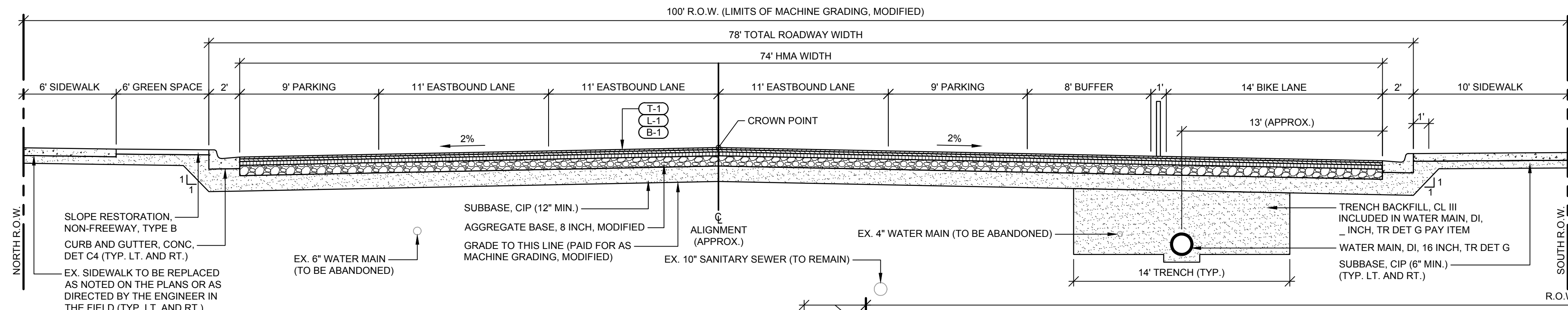
HMA APPLICATION TABLE



MICHIKAL STREET PROPOSED TYPICAL SECTION



MICHIKAL STREET PROPOSED TYPICAL SECTION

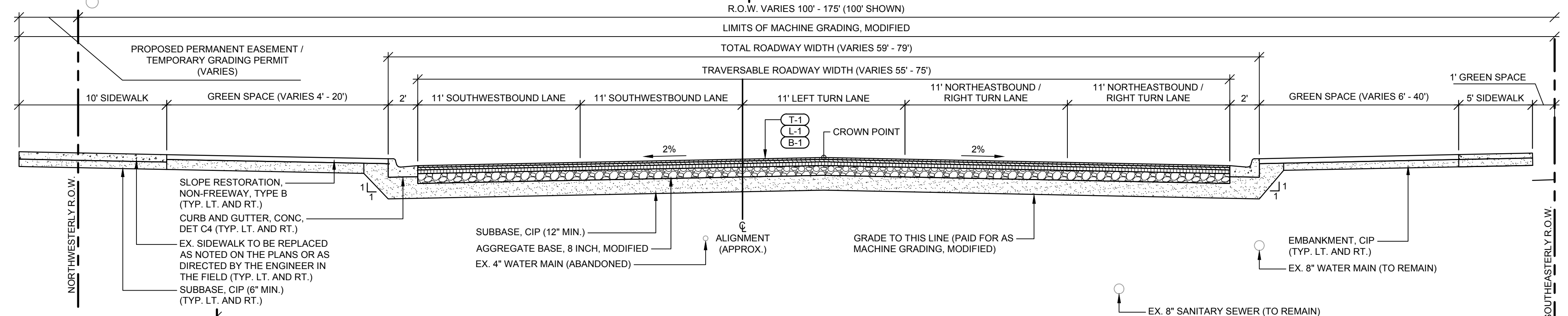


W MICHIGAN AVENUE PROPOSED TYPICAL SECTION

SCALE: 1" = 5'
THIS SECTION APPLIES: STA 30+00 (P.O.B.) TO STA. 32+75 (P.O.E.)
W MICHIGAN AVENUE STA. 30+90 = W MICHIGAN AVENUE STA. 91+87

W MICHIGAN AVENUE PROPOSED TYPICAL SECTION

SCALE: 1" = 5'
THIS SECTION APPLIES: STA 87+75 (P.O.B.) TO STA. 91+00 (P.O.E.)
W MICHIGAN AVENUE STA. 30+90 = W MICHIGAN AVENUE STA. 91+87

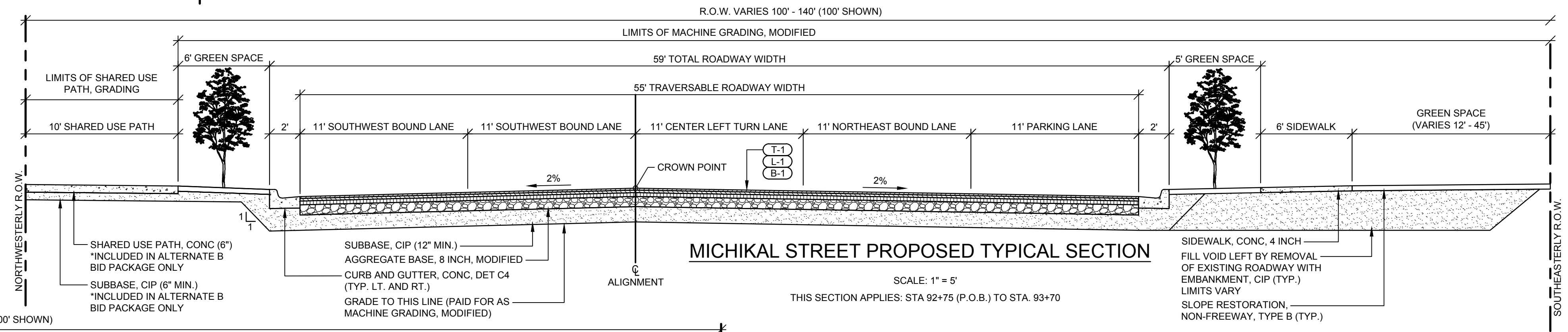
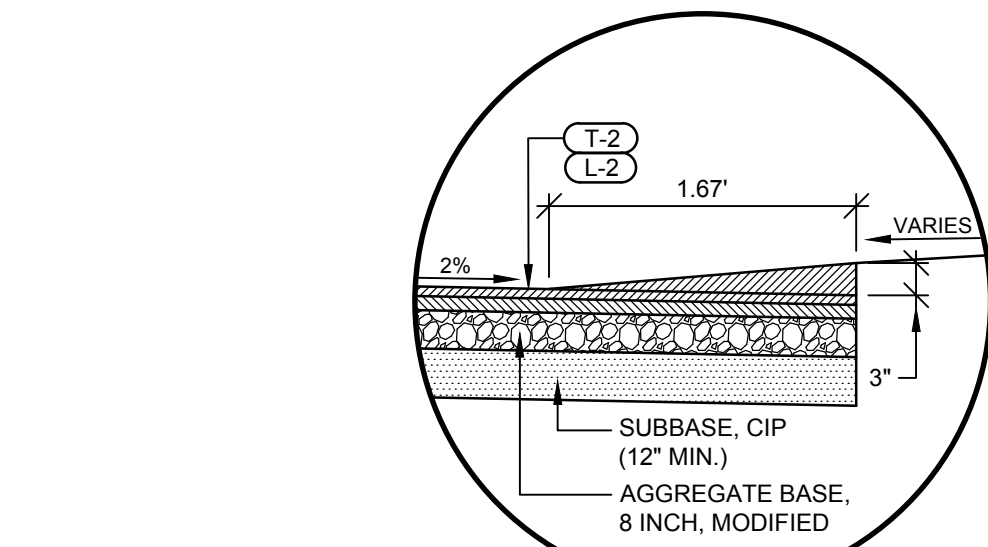
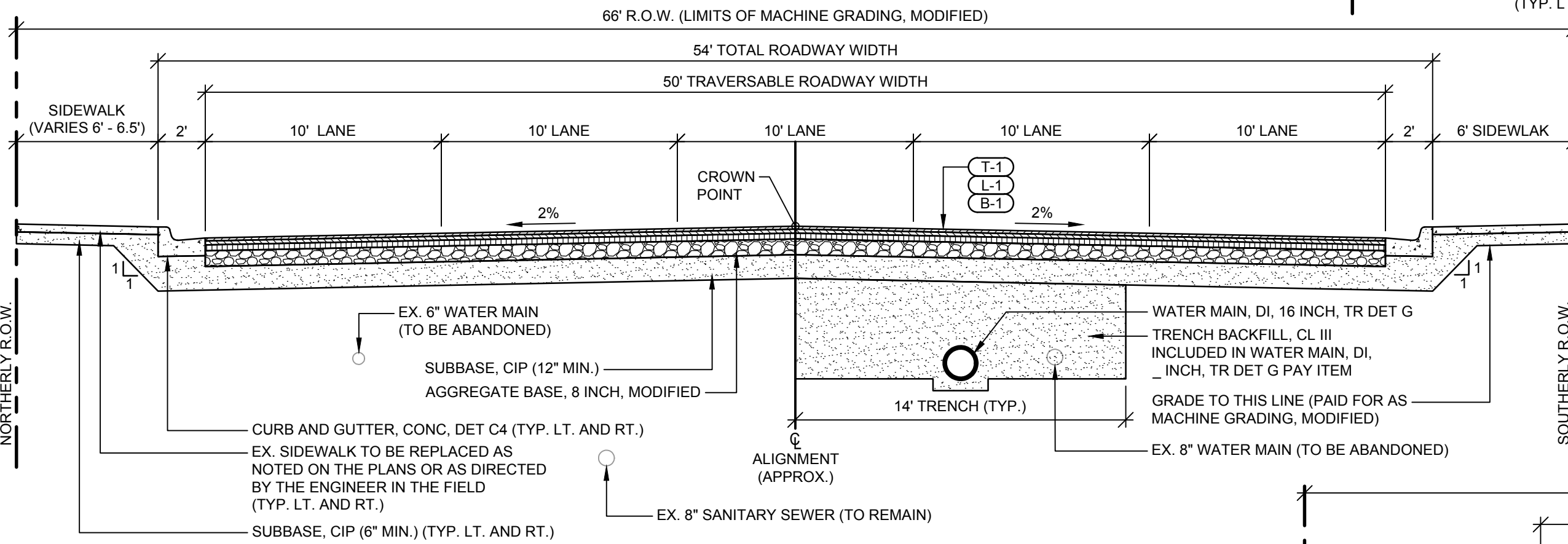


W MAIN STREET PROPOSED TYPICAL SECTION

SCALE: 1" = 5'
THIS SECTION APPLIES: STA. 28+75 (P.O.B.) TO STA. 30+00 (P.O.E.)

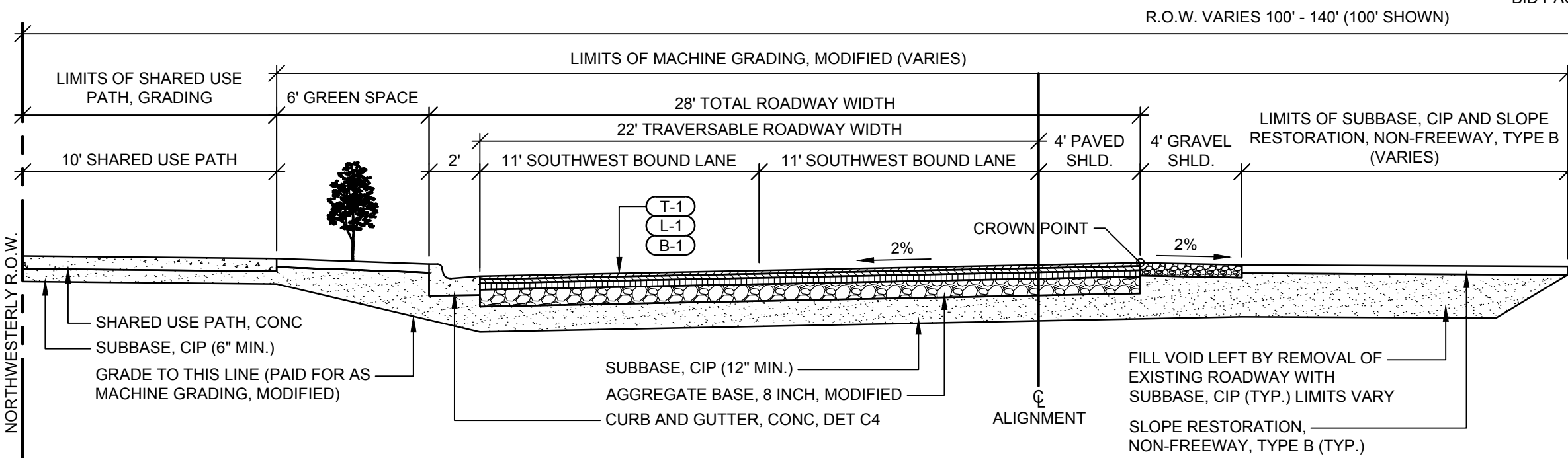
HMA APPLICATION TABLE

	ITEM	AWI	YIELD	PERFORMANCE GRADE	NOTES
T-1	HMA, 5EML (TOP)	260	165#/SYD	P.G. 64 - 28	MICHIKAL, W MAIN, W MICHIGAN MAINLINE PAVING
L-1	HMA, 4EML (LEVELING)		220#/SYD	P.G. 64 - 28	MICHIKAL, W MAIN, W MICHIGAN MAINLINE PAVING
B-1	HMA, 3EML (BASE)		330#/SYD	P.G. 64 - 28	MICHIKAL, W MAIN, W MICHIGAN MAINLINE PAVING
T-2	HMA, 4EML (TOP)	260	220#/SYD	P.G. 64 - 28	MICHIKAL TEMPORARY CONNECTION
L-2	HMA, 3EML (LEVELING)		330#/SYD	P.G. 64 - 28	MICHIKAL TEMPORARY CONNECTION
4EML	HMA, APPROACH (LEVELING)		165#/SYD	P.G. 64 - 28	DRIVEWAY APPROACHES
5EML	HMA, APPROACH (TOP)	260	165#/SYD	P.G. 64 - 28	DRIVEWAY APPROACHES
4EML	HMA, APPROACH (LEVELING)		220#/SYD	P.G. 64 - 28	SIDE STREET APPROACHES
5EML	HMA, APPROACH (TOP)	260	165#/SYD	P.G. 64 - 28	SIDE STREET APPROACHES
	HAND PATCHING (HMA, 5EML)		165 - 220#/SYD	P.G. 64 - 28	
	HMA BOND COAT (NOT A PAY ITEM)		0.05 TO 0.15 GAL/SYD	SS - 1h	



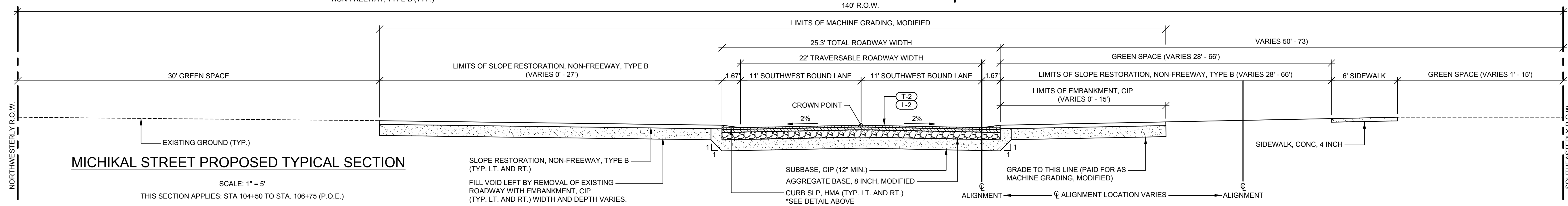
MICHIKAL STREET PROPOSED TYPICAL SECTION

SCALE: 1" = 5'
THIS SECTION APPLIES: STA 92+75 (P.O.B.) TO STA. 93+70



MICHIKAL STREET PROPOSED TYPICAL SECTION

SCALE: 1" = 5'
THIS SECTION APPLIES: STA 93+70 TO P.O.E. STA. 104+50



MICHIKAL STREET PROPOSED TYPICAL SECTION

SCALE: 1" = 5'
THIS SECTION APPLIES: STA 104+50 TO STA. 106+75 (P.O.E.)



PHILIP A. DOORLAG
6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

05/12/2023 PAD
ISSUED FOR BIDDING
04/10/25/2023 PAD
90% SUBMITTAL
01/06/30/2023 PAD
70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
SCALE: NONE

**SOIL BORINGS AND
STRUCTURE TABLES**

JOB No. 224022
C007
OF 69

BORINGS

Table with columns for Boring ID, Depth, Soil Type, and Description. Includes borings PB-40 through PB-42, PB-44 through PB-46, PB-47 through PB-49, PB-14, and PB-16.

STRUCTURE REMOVALS

STORM STRUCTURES

Table listing storm structures ST063 through ST242 with details on diameter, structure type, and location.

STORM STRUCTURES

Table listing storm structures ST243 through ST258 with details on diameter, structure type, and location.

STORM STRUCTURES

Table listing storm structures ST260 through ST268 with details on diameter, structure type, and location.

PROPOSED STRUCTURES

STORM STRUCTURES

Table listing proposed storm structures ST554 through ST585 with details on diameter, structure type, and location.

STORM STRUCTURES

Table listing proposed storm structures ST573 through ST598 with details on diameter, structure type, and location.

STORM STRUCTURES

Table listing proposed storm structures ST586 through ST602 with details on diameter, structure type, and location.

STORM STRUCTURES

Table listing proposed storm structures ST662 through ST670 with details on diameter, structure type, and location.

STRUCTURE ADJUST

Table with columns for Structure ID, Structure Type, and Location. Lists structures SA021 through SA032.

STRUCTURE, ADJ

Table with columns for Structure ID, Structure Type, and Location. Lists structures SA033 through SA096.

QUANTITIES THIS SHEET	
ITEM	QTY.
Curb and Gutter, Rem	805 Ft
Sidewalk, Rem	390 Syd
Pavt, Rem, Modified	4,350 Syd
HMA Surface, Rem	95 Syd

W+
WIGHTMAN
433 E. RANSOM ST.
KALAMAZOO, MI. 49007
269.327.3532
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PHILIP A. DOORLAG
6201067363
PROJECT NAME:
**STREETS FOR ALL:
MICHIGAN IMPROVEMENTS**

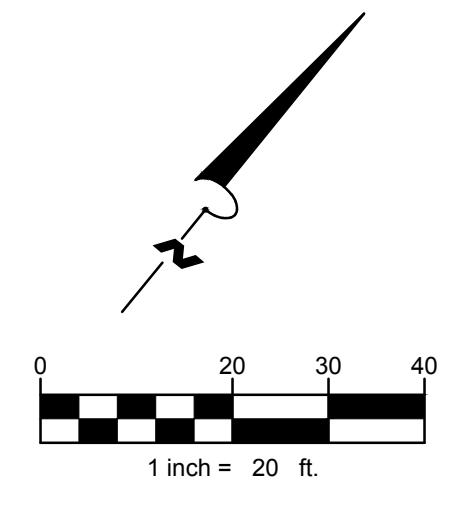
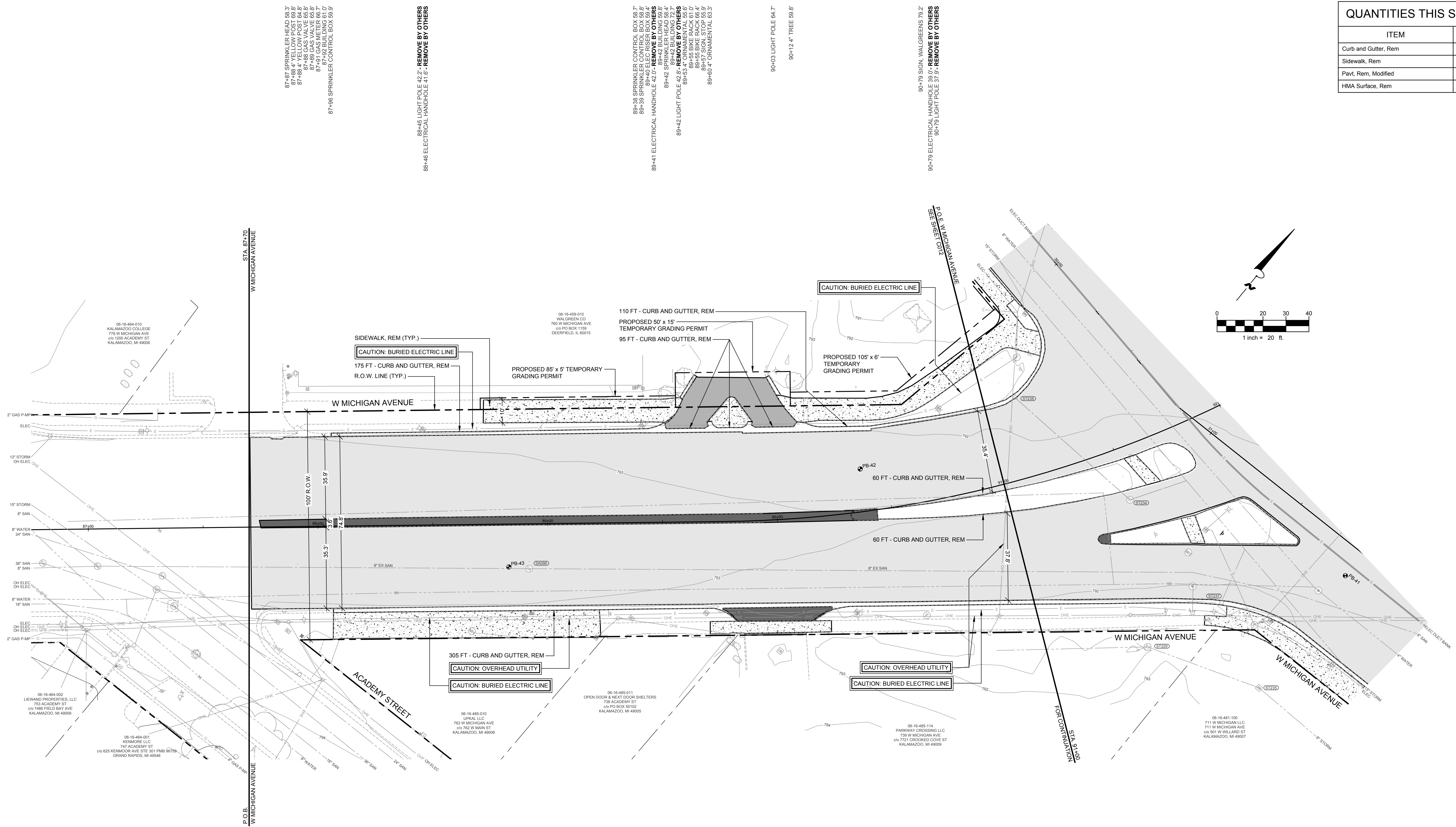
**CITY OF
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415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

05/12/01/2023	PAD
ISSUED FOR BIDDING	
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90% SUBMITTAL	
01/08/30/2023	PAD
70% SUBMITTAL	

REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 20'

**REMOVAL PLAN -
W. MICHIGAN AVE -
STA. 87+70 (P.O.B.) TO STA
91+00 (P.O.E.)**

JOB No. 224022
C008
OF 69



87-487 SPRINKLER HEAD 55.3'
87-488 4" YELLOW POST 65.8'
87-489 4" YELLOW POST 65.8'
87-486 GAS VALVE 65.8'
87-485 GAS VALVE 65.8'
87-484 GAS VALVE 65.8'
87-483 GAS VALVE 65.8'
87-482 GAS VALVE 65.8'
87-481 GAS VALVE 65.8'
87-480 GAS VALVE 65.8'
87-966 SPRINKLER CONTROL BOX 59.9'

88-445 LIGHT POLE 42.2' - REMOVE BY OTHERS
88-446 ELECTRICAL HANDHOLE 41.6' - REMOVE BY OTHERS

89-438 SPRINKLER CONTROL BOX 55.7'
89-439 SPRINKLER CONTROL BOX 55.7'
89-440 SPRINKLER CONTROL BOX 55.7'
89-441 ELECTRICAL HANDHOLE 42.0' - REMOVE BY OTHERS
89-442 BUILDING 55.8'
89-443 BUILDING 55.7'
89-444 BUILDING 55.7'
89-445 BUILDING 55.7'
89-446 BUILDING 55.7'
89-447 SIGN, STOP 55.9'
89-448 SIGN, STOP 55.9'
89-449 SIGN, STOP 55.9'
89-450 SIGN, STOP 55.9'

90-403 LIGHT POLE 64.7'
90-12 4" TREE 59.8'

90-79 SIGN, WALGREENS 79.2'
90-79 ELECTRICAL HANDHOLE 39.0' - REMOVE BY OTHERS
90-79 LIGHT POLE 37.9' - REMOVE BY OTHERS

87-482 COMMUNICATION VAULT 41.4'
87-483 SIGN, STOP STR 53.7'
87-484 COMMUNICATION VAULT 46.4'
87-485 POWER POLE 41.6'
87-486 LIGHT POLE 40.5'
88-011 POWER POLE 66.9'
88-005 BUILDING 55.7'
88-006 BUILDING 45.9'
88-10 RAIN GUTTER 48.5'

88-20 SIGN, CITY OF KALAMAZOO 41.6' - SALVAGE
88-34 WATER VALVE 29.3' - ADJ. CASE 1
88-43 ELEC OUTLET 90.9'
88-47 RAIN GUTTER 94.7'

88-61 RAIN GUTTER 48.0'
88-66 MANHOLE 46.5' - ADJ. CASE 1

88-64 RAIN GUTTER 47.5'
88-69 LIGHT POLE 41.9' - REMOVE BY OTHERS
88-90 ELECTRICAL HANDHOLE 49.4' - REMOVE BY OTHERS
88-92 MANHOLE PAVED OVER 16.4' - ADJ. CASE 1
88-93 POST WOOD OVERHANG 49.8'
88-99 POST WOOD OVERHANG 48.8'

89-18 RAIN GUTTER 49.4'
89-19 BUILDING 49.8'
89-21 ELEC METER 49.8'
89-21 BENCH MARK 43.0' - PRESERVE
89-22 BUILDING 49.0'
89-26 SIGN, BUS STOP HOSPITAL 39.4' - REMOVE
89-36 COMMUNICATION VAULT 41.6'

89-45 BUILDING 76.4'
89-50 BUILDING 48.8'
89-60 BUILDING 48.8'
89-69 ELECTRICAL HANDHOLE 39.7' - ADJ. BY OTHERS

89-78 BUILDING 48.9'
89-79 BUILDING 49.3'
89-79 BRICK PILLAR 50.4'
89-80 BRICK PILLAR 50.4'
89-80 BRICK PILLAR 49.5'
89-81 BUSH 54.7'
89-83 BRICK PILLAR 49.5'
89-83 BRICK PILLAR 50.5'
89-84 BRICK PILLAR 50.5'
89-85 CATCH BASIN 57.2'
90-13 FENCE 50.9'

90-30 ELECTRICAL HANDHOLE 45.6' - REMOVE BY OTHERS
90-30 LIGHT POLE 44.7' - REMOVE BY OTHERS
90-32 FENCE 52.7'
90-33 FENCE 52.8'

90-51 FENCE 55.9'
90-52 FENCE 55.5'
90-57 MH TRAFFIC 48.8'
90-70 FENCE 59.7'
90-71 FENCE 58.9'

90-80 GUY WIRE 61.2'
90-85 POWER POLE 55.2'
90-88 FENCE 63.2'

LEGEND

	SAWCUT AND REMOVE FULL DEPTH EXISTING PAVEMENT STRUCTURE PAID FOR AS PAVT, REM, MODIFIED
	SAWCUT AND REMOVE FULL DEPTH EXISTING HMA PAID FOR AS HMA SURFACE, REM
	SAWCUT AND REMOVE FULL DEPTH EXISTING CONCRETE PAID FOR AS PAVT, REM, MODIFIED
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK PAID FOR AS SIDEWALK, REM.



WIGHTMAN

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269.327.3532

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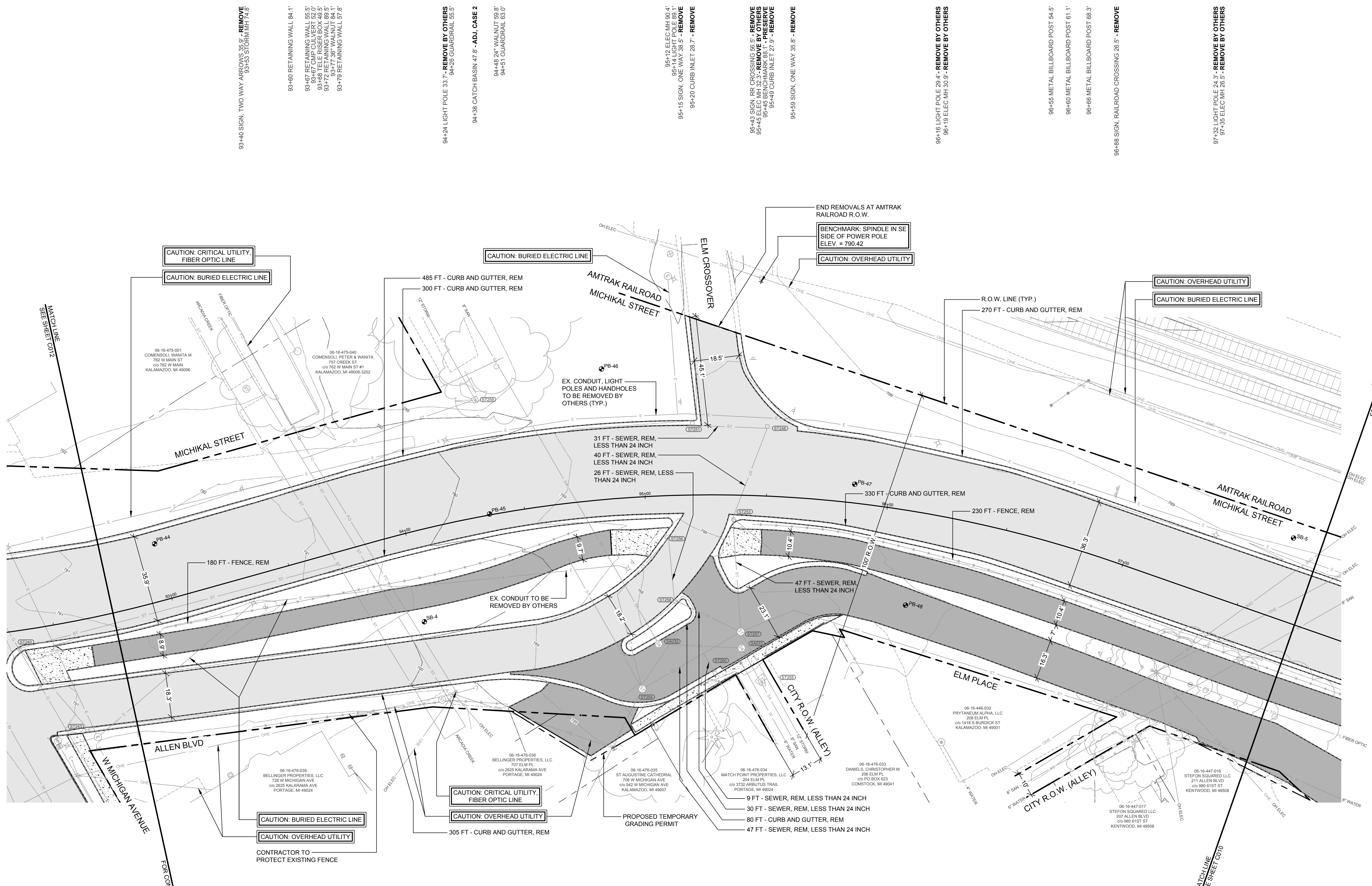
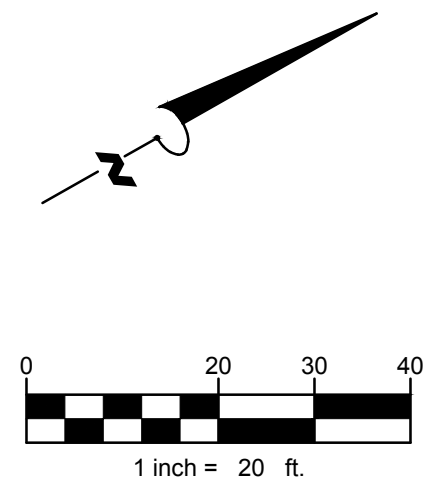
PHILIP A. DOORLAG
6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

QUANTITIES THIS SHEET

ITEM	QTY.
Tree, Rem, 19 inch to 36 inch	5 Ea
Tree, Rem, 6 inch to 18 inch	2 Ea
Dr Structure, Rem	8 Ea
Sewer, Rem, Less than 24 inch	230 Ft
Curb and Gutter, Rem	1,770 Ft
Fence, Rem	410 Ft
Sidewalk, Rem	85 Syd
Pavt, Rem, Modified	2,850 Syd
HMA Surface, Rem	1,300 Syd
Sign, Type III, Rem	9 Ea



- 92+75 SIGN, STOP AHEAD 50.0' - REMOVE
- 92+94 FENCE 11.0' - REMOVE
- 93+04 GAS METER 76.7'
- 93+11 BUILDING 75.9'
- 93+13 FENCE 12.5' - REMOVE
- 93+14 FENCE 12.5' - REMOVE
- 93+17 BUILDINGS 71.2'
- 93+18 FENCE 69.2'
- 93+20 BUILDING 72.3'
- 93+25 BUILDING 72.3'
- 93+28 BUILDING 74.1'
- 93+30 FENCE 62.9'
- 93+33 FENCE 62.9'
- 93+36 SIGN, TWO WAY ARROWS 13.9' - REMOVE
- 93+40 BUILDING 70.5'
- 93+53 FENCE 16.6' - REMOVE
- 93+55 FENCE 65.9'
- 93+63 FENCE 16.4' - REMOVE

- 93+73 FENCE 67.6'
- 93+88 FENCE 18.4' - REMOVE
- 93+97 STORM MH 70.1'
- 94+02 FENCE 71.6'
- 94+03 POWER POLE 69.0'
- 94+05 TELE RISER BOX 68.3'
- 94+13 GUY WIRE 68.6'
- 94+28 FENCE 78.0'
- 94+33 FENCE 18.4' - REMOVE
- 94+71 FENCE 14.4' - REMOVE

- 94+87 CLEAN OUT 27.6'
- 94+91 LIGHT POLE 29.2' - REMOVE BY OTHERS
- 94+93 SIGN, DO NOT ENTER 28.8' - REMOVE
- 94+94 STORM MH 79.0' - REMOVE
- 94+97 WOOD FENCE 94.3'
- 94+98 33" WALNUT 94.9'
- 95+03 SAN MH 60.9' - ADJ. CASE 1
- 95+11 CURB INLET 43.1' - REMOVE
- 95+27 11" PINE 99.8'
- 95+29 CURB INLET 72.8' - REMOVE
- 95+35 CURB INLET 9.5' - REMOVE
- 95+40 SIGN, STOP 13.6' - REMOVE
- 95+41 STORM MH 59.3' - REMOVE
- 95+41 SAN MH 63.0' - ADJ. CASE 1
- 95+45 FENCE 11.9' - REMOVE
- 95+52 CATCH BASIN 76.5'
- 95+51 FENCE 97.9'

- 95+83 FENCE 50.4'
- 95+88 FENCE 13.1' - REMOVE
- 95+96 FENCE 71.9'
- 95+98 FENCE 69.2'
- 96+37 FENCE 16.9' - REMOVE
- 96+44 WATER MH 91.2'
- 96+68 FENCE 19.3' - REMOVE
- 96+88 FENCE 20.2' - REMOVE

- 97+03 6" MULBERRY CLUSTER 37.4' - REMOVE
- 97+03 SIGN, NO PARKING 37.7' - REMOVE
- 97+08 20" POPLAR 38.7' - REMOVE
- 97+13 WATER VALVE 62.9'
- 97+20 CATCH BASIN 57.8' - ADJ. CASE 2
- 97+21 12" TWIN POPLAR 36.9' - REMOVE
- 97+23 9" MULBERRY 74.4'
- 97+28 20" MULBERRY 74.4'
- 97+28 POWER POLE 37.9'
- 97+31 WATER VALVE 65.9'
- 97+31 WATER VALVE 65.9'
- 97+32 20" TWIN POPLAR 39.0' - REMOVE
- 97+43 24" POPLAR 37.3' - REMOVE
- 97+49 24" POPLAR 37.5' - REMOVE
- 97+63 18" DEAD TREE 39.4' - REMOVE
- 97+68 FENCE 20.4' - REMOVE

- 93+40 SIGN, TWO WAY ARROWS 35.9' - REMOVE
- 93+53 STORM MH 74.8'
- 93+60 RETAINING WALL 84.1'
- 93+67 RETAINING WALL 55.5'
- 93+67 CAMP CULVERT 52.0'
- 93+68 TELE RISER BOX 48.5'
- 93+71 38" WALNUT 84.1'
- 93+77 38" WALNUT 84.1'
- 93+79 RETAINING WALL 57.8'

- 94+24 LIGHT POLE 33.7' - REMOVE BY OTHERS
- 94+26 GUARDRAIL 53.5'
- 94+38 CATCH BASIN 47.8' - ADJ. CASE 2
- 94+48 24" WALNUT 59.8'
- 94+51 GUARDRAIL 65.0'

- 95+13 ELEC. MH 69.4'
- 95+14 LIGHT POLE 89.1'
- 95+15 SIGN, ONE WAY 38.5' - REMOVE
- 95+20 CURB INLET 28.7' - REMOVE
- 95+43 SIGN, RR CROSSING 66.9' - REMOVE
- 95+44 SIGN, STOP 13.6' - REMOVE
- 95+45 BENCHMARK 83.1' - PRESERVE
- 95+49 CURB INLET 27.9' - REMOVE
- 95+59 SIGN, ONE WAY 35.8' - REMOVE

- 96+16 LIGHT POLE 29.4' - REMOVE BY OTHERS
- 96+19 ELEC. MH 30.9' - REMOVE BY OTHERS
- 96+55 METAL BILLBOARD POST 54.5'
- 96+60 METAL BILLBOARD POST 61.1'
- 96+66 METAL BILLBOARD POST 68.3'
- 96+88 SIGN, RAILROAD CROSSING 26.5' - REMOVE

- 97+32 LIGHT POLE 24.3' - REMOVE BY OTHERS
- 97+35 ELEC. MH 26.5' - REMOVE BY OTHERS

LEGEND

- SAWCUT AND REMOVE FULL DEPTH EXISTING PAVEMENT STRUCTURE PAID FOR AS PAVT, REM, MODIFIED
- SAWCUT AND REMOVE FULL DEPTH EXISTING HMA PAID FOR AS HMA SURFACE, REM
- SAWCUT AND REMOVE FULL DEPTH EXISTING CONCRETE PAID FOR AS PAVT, REM, MODIFIED
- SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK PAID FOR AS SIDEWALK, REM.

DATE	DESCRIPTION	BY
05/12/2023	ISSUED FOR BIDDING	PAD
04/10/2023	90% SUBMITTAL	PAD
01/08/2023	70% SUBMITTAL	PAD

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 20'

**REMOVAL PLAN -
MICHIKAL -
STA. 92+75 (P.O.B.) TO STA.
97+75**

JOB No. 224022
C009
OF 69

QUANTITIES THIS SHEET	
ITEM	QTY.
Tree, Rem, 19 inch to 36 inch	4 Ea
Tree, Rem, 37 inch or Larger	1 Ea
Tree, Rem, 6 inch to 18 inch	21 Ea
Dr Structure, Rem	4 Ea
Sewer, Rem, Less than 24 inch	155 Ft
Curb and Gutter, Rem	1,800 Ft
Fence, Rem	615 Ft
Guardrail, Rem	90 Ft
Sidewalk, Rem	155 Syd
Pavt, Rem, Modified	2,150 Syd
HMA Surface, Rem	1,950 Syd
Sign, Type III, Rem	14 Ea

WIGHTMAN

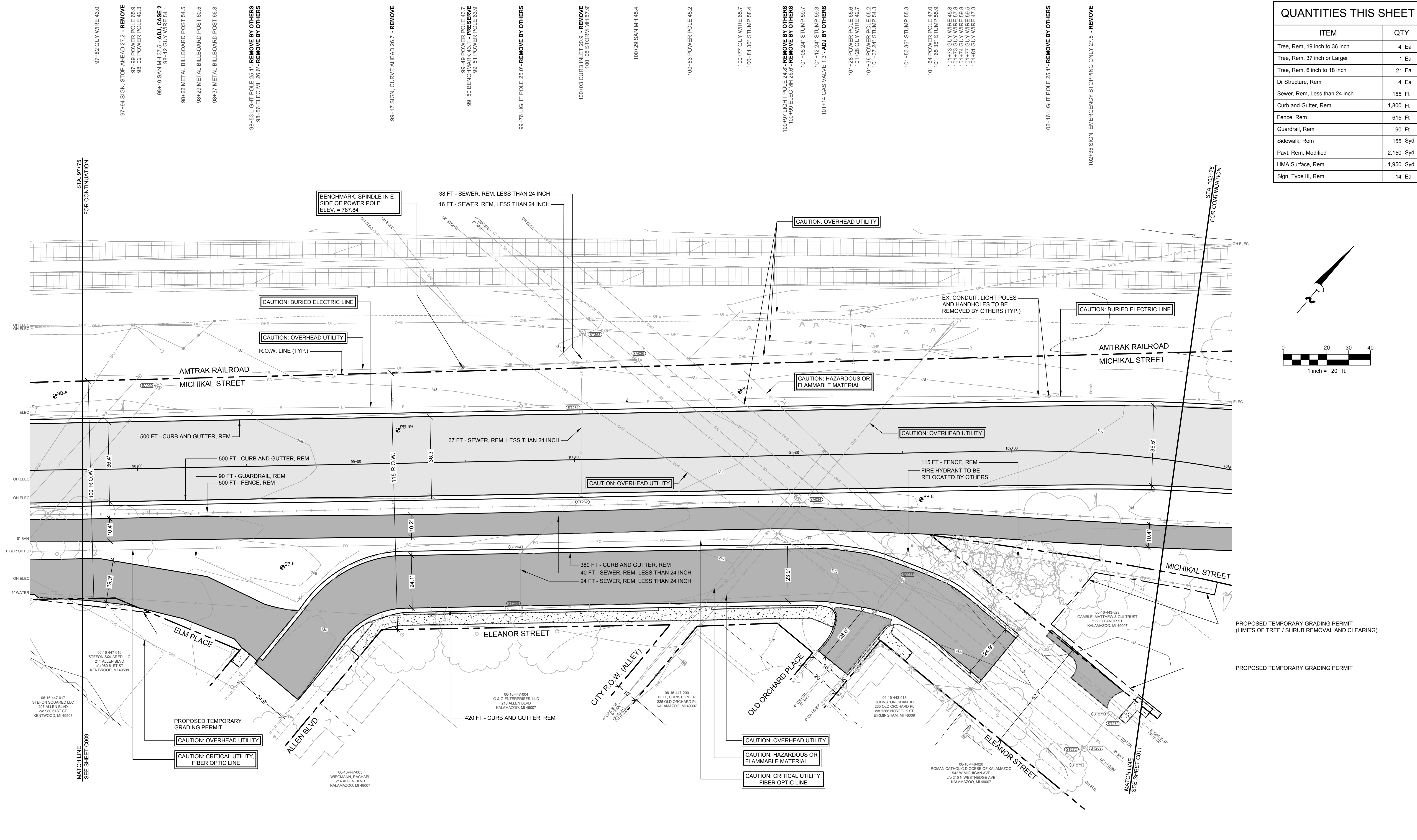
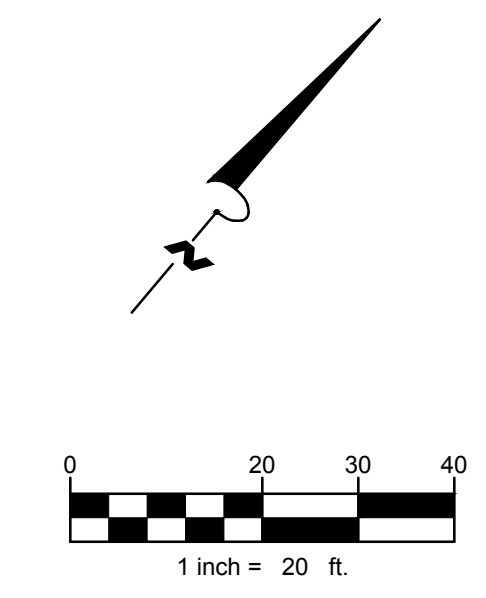
433 E. RANSOM ST.
KALAMAZOO, MI 49007
269.327.3532

www.wightman.com

PHILIP A. DOORLAG
6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

CITY OF
KALAMAZOO
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



- 97+82 GUY WIRE 43.0'
- 97+94 SIGN, STOP AHEAD 27.2' - REMOVE
- 97+99 POWER POLE 65.9'
- 98+02 POWER POLE 42.3'
- 98+10 SAN MH 37.5' - ADJ. CASE 2
- 98+12 GUY WIRE 54.1'
- 98+22 METAL BILLBOARD POST 54.5'
- 98+29 METAL BILLBOARD POST 60.5'
- 98+37 METAL BILLBOARD POST 66.8'
- 98+53 LIGHT POLE 35.1' - REMOVE BY OTHERS
- 98+56 ELEC. MH 26.6' - REMOVE BY OTHERS
- 99+17 SIGN, CURVE AHEAD 26.7' - REMOVE
- 99+49 POWER POLE 43.7'
- 99+50 BENCHMARK 43.1' - PRESERVE
- 99+51 POWER POLE 63.9'
- 99+78 LIGHT POLE 25.0' - REMOVE BY OTHERS
- 100+03 CURB INLET 20.9' - REMOVE
- 100+05 STORM MH 57.9'
- 100+29 SAN MH 45.4'
- 100+53 POWER POLE 45.2'
- 100+77 GUY WIRE 65.7'
- 100+81 3/8" STUMP 56.4'
- 100+97 LIGHT POLE 24.6' - REMOVE BY OTHERS
- 100+99 ELEC. MH 26.6' - REMOVE BY OTHERS
- 101+05 24" STUMP 59.7'
- 101+12 24" STUMP 55.3'
- 101+14 GAS VALVE 1.3' - ADJ. BY OTHERS
- 101+28 POWER POLE 65.6'
- 101+28 GUY WIRE 42.7'
- 101+36 POWER POLE 65.2'
- 101+37 24" STUMP 54.3'
- 101+53 3/8" STUMP 55.3'
- 101+54 POWER POLE 47.0'
- 101+55 3/8" STUMP 55.9'
- 101+73 GUY WIRE 45.8'
- 101+74 GUY WIRE 59.8'
- 101+77 GUY WIRE 59.5'
- 101+81 GUY WIRE 47.3'
- 102+16 LIGHT POLE 25.1' - REMOVE BY OTHERS
- 102+35 SIGN, EMERGENCY STOPPING ONLY 27.9' - REMOVE

- 97+60 27" POPLAR 36.3' - REMOVE
- 98+05 SIGN, STOP AHEAD 19.9' - REMOVE
- 98+23 FENCE 20.9' - REMOVE
- 98+26 GUARDRAIL 41.1' - REMOVE
- 98+45 SIGN, DO NOT ENTER 95.2' - REMOVE
- 98+67 SIGN, DO NOT ENTER 115.1' - REMOVE
- 98+72 GUARDRAIL 62.6' - REMOVE
- 98+74 CURB INLET 65.3' - REMOVE
- 98+75 FENCE 20.6' - REMOVE
- 98+87 12" MAPLE 92.1'
- 98+90 POWER POLE 88.7'
- 98+91 GUARDRAIL 45.6' - REMOVE
- 99+01 GUARDRAIL 39.7' - REMOVE
- 99+17 SIGN, CURVE AHEAD 20.5' - REMOVE
- 99+20 18" MAPLE 78.4'
- 99+25 FENCE 20.7' - REMOVE
- 99+36 SIGN, NO PARKING 69.1' - REMOVE
- 99+54 18" MAPLE 78.7'
- 99+73 FENCE 20.9' - REMOVE
- 99+74 CURB INLET 65.3' - REMOVE
- 99+75 CURB INLET 42.4' - REMOVE
- 99+90 20" MAPLE 78.2'
- 100+03 CURB INLET 15.4' - REMOVE
- 100+29 FENCE 20.9' - REMOVE
- 100+48 EMT OHE 12 24.0'
- 100+79 FENCE 21.0' - REMOVE
- 100+92 TELE RISER BOX 38.0'
- 100+95 SIGN, KIDS AT PLAY 69.3' - REMOVE
- 100+96 FENCE 21.2' - REMOVE
- 101+02 SAN MH 19.2' - ADJ. CASE 1
- 101+23 FENCE 23.1' - REMOVE
- 101+28 BUSH 98.3'
- 101+27 BUSH 97.1'
- 101+26 BUSH 95.8'
- 101+25 BUSH 91.9'
- 101+24 BUSH 91.9'
- 101+23 BUSH 90.9'
- 101+22 BUSH 88.9'
- 101+21 BUSH 88.9'
- 101+20 WATER VALVE 72.9' - ADJ. CASE 1
- 101+18 BUSH 86.9'
- 101+17 DSH 88.0'
- 101+16 WATER VALVE 66.2' - ADJ. CASE 1
- 101+14 SIGN, STOP STREET 82.2' - REMOVE
- 101+13 SAN MH 56.1' - ADJ. CASE 1
- 101+12 CEDAR 98.7'
- 101+11 CEDAR 98.7'
- 101+10 LOCUST 45.7' - REMOVE
- 101+09 LOCUST 45.7' - REMOVE
- 101+08 LOCUST 45.7' - REMOVE
- 101+07 LOCUST 45.7' - REMOVE
- 101+06 LOCUST 45.7' - REMOVE
- 101+05 LOCUST 45.7' - REMOVE
- 101+04 LOCUST 45.7' - REMOVE
- 101+03 LOCUST 45.7' - REMOVE
- 101+02 LOCUST 45.7' - REMOVE
- 101+01 LOCUST 45.7' - REMOVE
- 101+00 LOCUST 45.7' - REMOVE
- 100+99 LOCUST 45.7' - REMOVE
- 100+98 LOCUST 45.7' - REMOVE
- 100+97 LOCUST 45.7' - REMOVE
- 100+96 LOCUST 45.7' - REMOVE
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- 100+91 LOCUST 45.7' - REMOVE
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- 100+86 LOCUST 45.7' - REMOVE
- 100+85 LOCUST 45.7' - REMOVE
- 100+84 LOCUST 45.7' - REMOVE
- 100+83 LOCUST 45.7' - REMOVE
- 100+82 LOCUST 45.7' - REMOVE
- 100+81 LOCUST 45.7' - REMOVE
- 100+80 LOCUST 45.7' - REMOVE
- 100+79 LOCUST 45.7' - REMOVE
- 100+78 LOCUST 45.7' - REMOVE
- 100+77 LOCUST 45.7' - REMOVE
- 100+76 LOCUST 45.7' - REMOVE
- 100+75 LOCUST 45.7' - REMOVE
- 100+74 LOCUST 45.7' - REMOVE
- 100+73 LOCUST 45.7' - REMOVE
- 100+72 LOCUST 45.7' - REMOVE
- 100+71 LOCUST 45.7' - REMOVE
- 100+70 LOCUST 45.7' - REMOVE
- 100+69 LOCUST 45.7' - REMOVE
- 100+68 LOCUST 45.7' - REMOVE
- 100+67 LOCUST 45.7' - REMOVE
- 100+66 LOCUST 45.7' - REMOVE
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- 100+63 LOCUST 45.7' - REMOVE
- 100+62 LOCUST 45.7' - REMOVE
- 100+61 LOCUST 45.7' - REMOVE
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- 100+59 LOCUST 45.7' - REMOVE
- 100+58 LOCUST 45.7' - REMOVE
- 100+57 LOCUST 45.7' - REMOVE
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- 100+32 LOCUST 45.7' - REMOVE
- 100+31 LOCUST 45.7' - REMOVE
- 100+30 LOCUST 45.7' - REMOVE
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- 100+28 LOCUST 45.7' - REMOVE
- 100+27 LOCUST 45.7' - REMOVE
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- 100+11 LOCUST 45.7' - REMOVE
- 100+10 LOCUST 45.7' - REMOVE
- 100+09 LOCUST 45.7' - REMOVE
- 100+08 LOCUST 45.7' - REMOVE
- 100+07 LOCUST 45.7' - REMOVE
- 100+06 LOCUST 45.7' - REMOVE
- 100+05 LOCUST 45.7' - REMOVE
- 100+04 LOCUST 45.7' - REMOVE
- 100+03 LOCUST 45.7' - REMOVE
- 100+02 LOCUST 45.7' - REMOVE
- 100+01 LOCUST 45.7' - REMOVE
- 100+00 LOCUST 45.7' - REMOVE

LEGEND

- SAWCUT AND REMOVE FULL DEPTH EXISTING PAVEMENT STRUCTURE PAID FOR AS PAVT, REM, MODIFIED
- SAWCUT AND REMOVE FULL DEPTH EXISTING HMA PAID FOR AS HMA SURFACE, REM
- SAWCUT AND REMOVE FULL DEPTH EXISTING CONCRETE PAID FOR AS PAVT, REM, MODIFIED
- SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK PAID FOR AS SIDEWALK, REM.

05 12/01/2023 PAD
ISSUED FOR BIDDING

04 10/25/2023 PAD
90% SUBMITTAL

01 06/30/2023 PAD
70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 20'

**REMOVAL PLAN -
MICHIKAL -
STA. 97+75 TO STA. 102+75**

JOB No. 224022
C010
OF 69

QUANTITIES THIS SHEET	
ITEM	QTY.
Dr Structure, Rem	5 Ea
Sewer, Rem, Less than 24 inch	365 Ft
Curb and Gutter, Rem	790 Ft
Fence, Rem	30 Ft
Sidewalk, Rem	15 Syd
Pavt, Rem, Modified	1,650 Syd
HMA Surface, Rem	450 Syd
Sign, Type III, Rem	1 Ea

W+
WIGHTMAN

433 E. RANSOM ST.
KALAMAZOO, MI. 49007
269.327.3532

www.gowightman.com

PHILIP A. DOORLAG
6201067363

**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

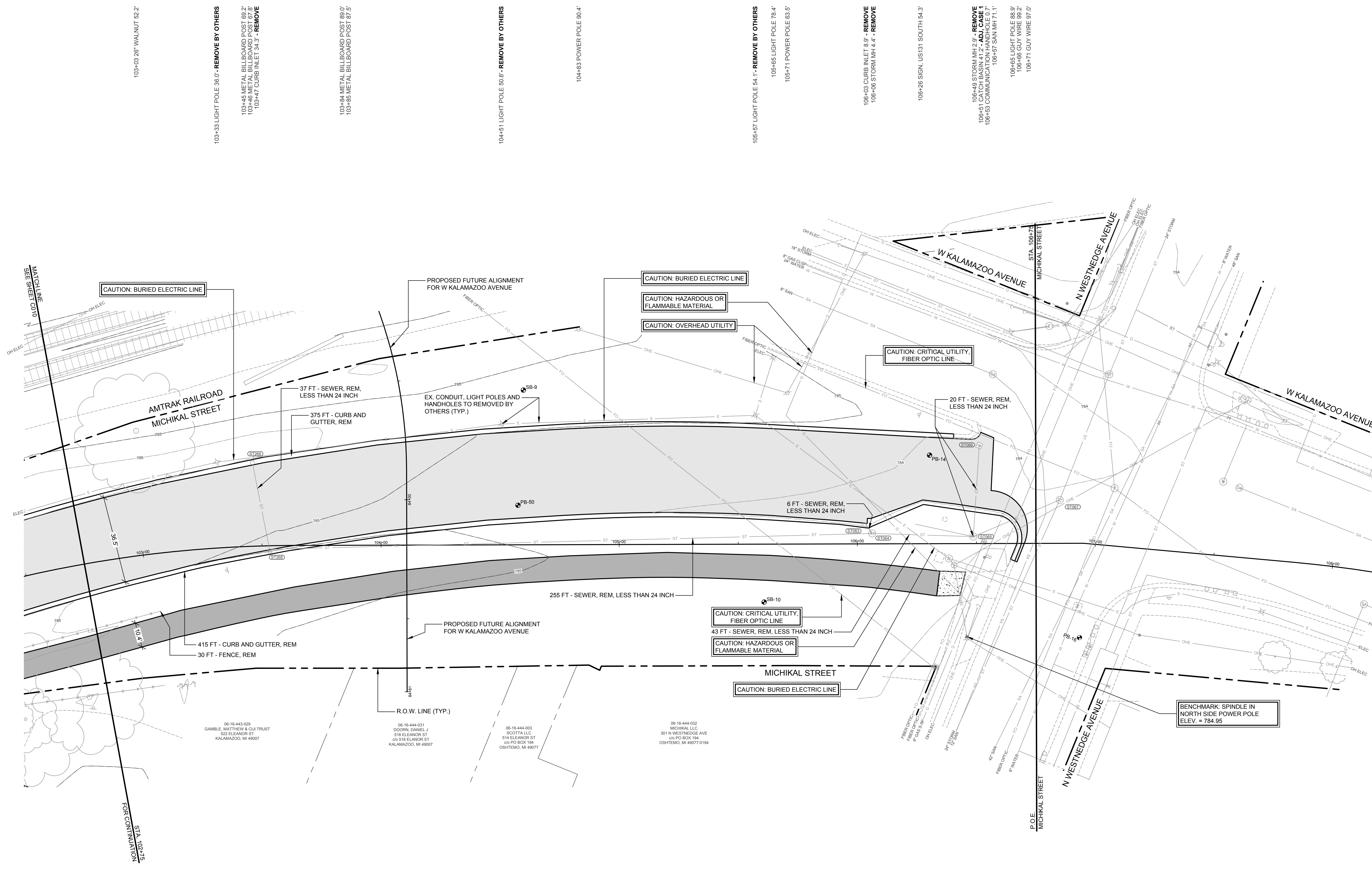
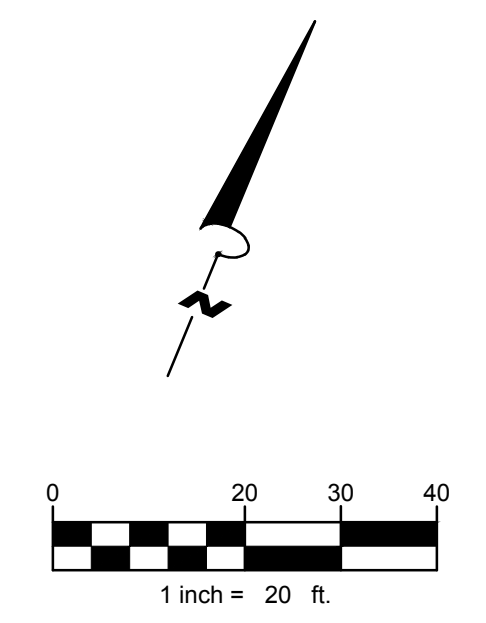
05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 20'

**REMOVAL PLAN -
MICHIKAL -
STA. 102+75 TO STA. 106+75
(P.O.E.)**

JOB No. 224022
C011
OF 69



LEGEND

	SAWCUT AND REMOVE FULL DEPTH EXISTING PAVEMENT STRUCTURE PAID FOR AS PAVT, REM, MODIFIED
	SAWCUT AND REMOVE FULL DEPTH EXISTING HMA PAID FOR AS HMA SURFACE, REM
	SAWCUT AND REMOVE FULL DEPTH EXISTING CONCRETE PAID FOR AS PAVT, REM, MODIFIED
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK PAID FOR AS SIDEWALK, REM.

103+03 26" WALNUT 52.2'

103+33 LIGHT POLE 36.0' - REMOVE BY OTHERS
103+45 METAL BILLBOARD POST 69.2'
103+46 METAL BILLBOARD POST 67.8'
103+47 CURB INLET 34.3' - REMOVE

103+84 METAL BILLBOARD POST 89.0'
103+85 METAL BILLBOARD POST 87.5'

104+51 LIGHT POLE 50.8' - REMOVE BY OTHERS

104+83 POWER POLE 90.4'

105+57 LIGHT POLE 54.1' - REMOVE BY OTHERS
105+65 LIGHT POLE 76.4'
105+71 POWER POLE 63.5'

106+03 CURB INLET 8.9' - REMOVE
106+06 STORM MH 4.4' - REMOVE

106+26 SIGN, US131 SOUTH 54.3'

106+49 STORM MH 2.9' - REMOVE
106+51 CATCH BASIN 41.2' - ADJ. CASE 1
106+53 COMMUNICATIONS UTILITY 1.1'
106+57 SAN MH 1.1'

106+65 LIGHT POLE 88.9'
106+66 GUY WIRE 99.2'
106+71 GUY WIRE 97.0'

103+02 CHAIN FENCE 55.4'
103+04 CHAIN FENCE 24.2' - REMOVE
103+10 16" STUMP 56.4'
103+12 12" STUMP 56.8'
103+16 14" STUMP 56.1'

103+36 SIGN, SPEED LIMIT 35.9.6' - REMOVE

103+53 CURB INLET 1.5' - REMOVE

108+31 FIBER OPTIC POST 51.6'
108+33 HANDHOLE 52.2'
108+38 ELEC MH 6.3'
108+46 BM24 BENCH THE INSIDE POWER POLE 39.1'
108+48 POWER POLE 39.8'
108+50 GUY WIRE 27.8'
108+55 CO CITY UTILITIES 5.8'

06-16-443-029
GAMBLE, MATTHEW & CUI TRUST
522 ELEANOR ST
KALAMAZOO, MI 49007

06-16-444-031
DOORN, DANIEL J
918 ELEANOR ST
219 PO BOX 194
KALAMAZOO, MI 49007

06-16-444-033
SCOTTA, L.L.C.
514 ELEANOR ST
219 PO BOX 194
OSHTIMO, MI 49077

06-16-444-032
MICHIKAL, L.L.C.
301 N WESTNEDGE AVE
219 PO BOX 194
OSHTIMO, MI 49077-0194

QUANTITIES THIS SHEET	
ITEM	QTY.
Dr Structure, Rem	10 Ea
Sewer, Rem, Less than 24 inch	660 Ft
Curb and Gutter, Rem	1,300 Ft
Sidewalk, Rem	525 Syd
Pavt, Rem, Modified	3,900 Syd
HMA Surface, Rem	15 Syd
Sign, Type III, Rem	11 Ea

W+
WIGHTMAN

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KALAMAZOO, MI 49007
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PHILIP A. DOORLAG
6201067363

**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

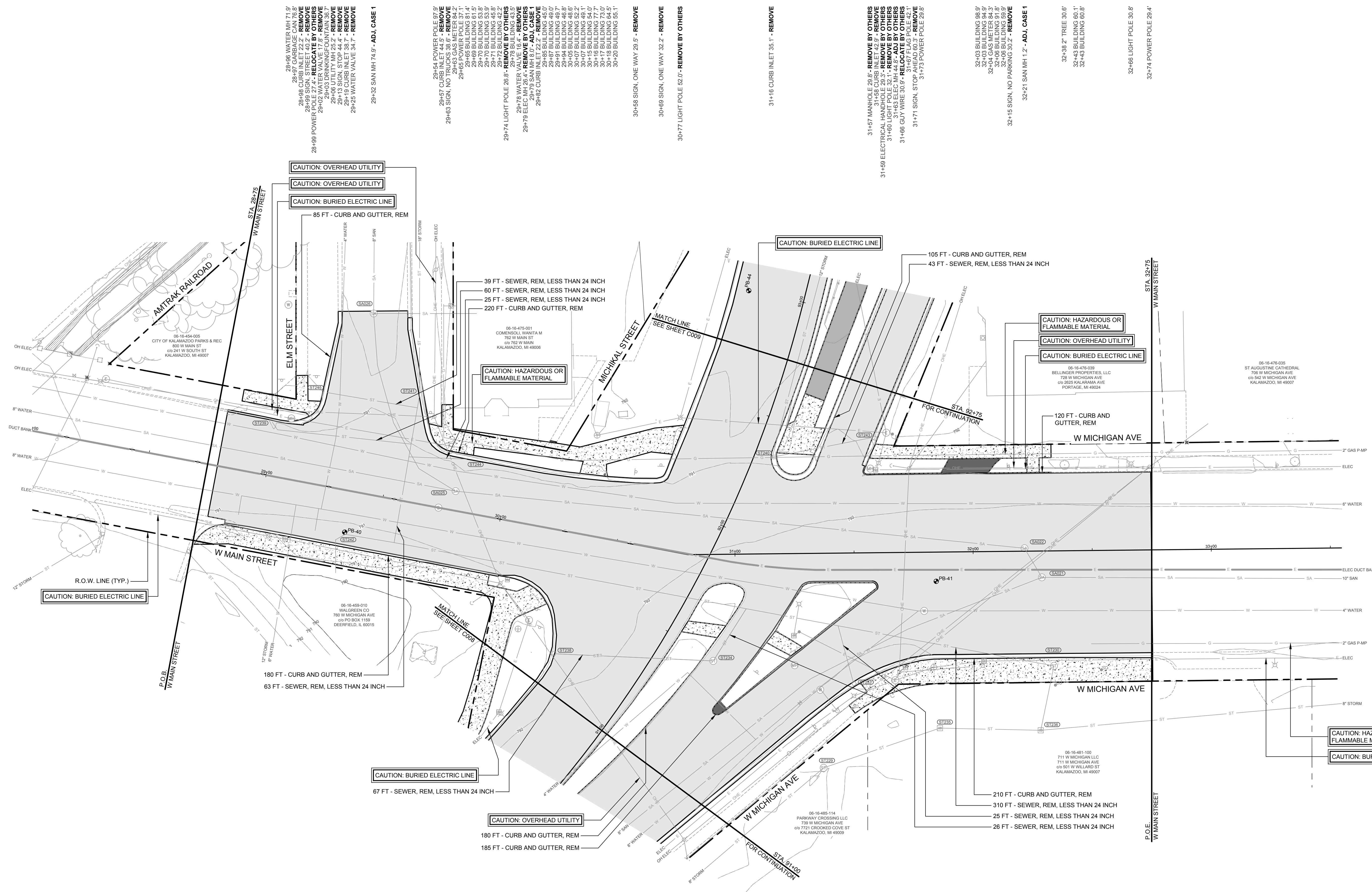
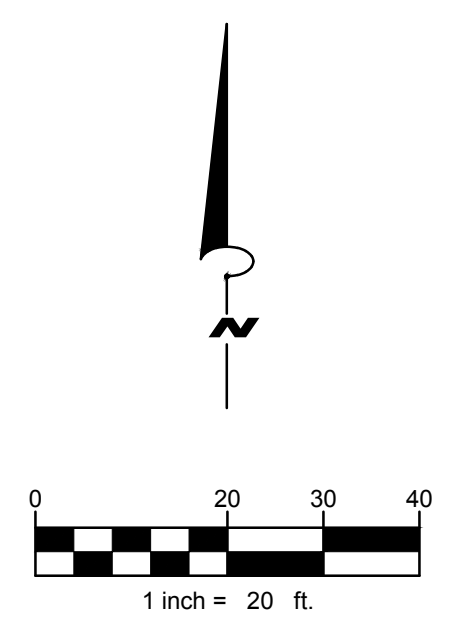
05/12/2023	PAD
ISSUED FOR BIDDING	
04/10/25/2023	PAD
90% SUBMITTAL	
01/08/30/2023	PAD
70% SUBMITTAL	

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 20'

**REMOVAL PLAN -
W. MAIN -
STA. 28+75 (P.O.B.) TO STA.
32+75 (P.O.E.)**

JOB No. 224022
C012
OF 69



- 28+92 WATER VALVE 16.5' - REMOVE
- 29+06 LIGHT POLE 25.1' - REMOVE BY OTHERS
- 29+13 ELECTRICAL HANDHOLE 24.9' - REMOVE BY OTHERS
- 29+15 WATER VALVE 10.8' - REMOVE
- 29+25 WATER VALVE 19.2' - REMOVE
- 29+34 CURB INLET 21.3' - REMOVE
- 29+35 WATER VALVE 9.6' - REMOVE
- 29+54 POWER POLE 97.0' - REMOVE
- 29+57 CURB INLET 44.5' - REMOVE
- 29+63 SIGN, NO TRUCKS 38.6' - REMOVE
- 29+65 POWER POLE 37.1' - REMOVE
- 29+66 BUILDING 81.4' - REMOVE
- 29+70 BUILDING 53.9' - REMOVE
- 29+71 BUILDING 45.9' - REMOVE
- 29+74 LIGHT POLE 28.9' - REMOVE BY OTHERS
- 29+79 WATER VALVE 43.5' - REMOVE
- 29+79 ELEC MH 23.4' - REMOVE BY OTHERS
- 29+79 SAN MH 8.0' - ADJ. CASE 1
- 29+82 CURB INLET 22.7' - REMOVE
- 29+87 BUILDING 49.0' - REMOVE
- 29+91 BUILDING 48.7' - REMOVE
- 29+95 BUILDING 48.6' - REMOVE
- 30+07 BUILDING 52.2' - REMOVE
- 30+17 BUILDING 73.0' - REMOVE
- 30+20 BUILDING 55.1' - REMOVE
- 30+58 SIGN, ONE WAY 29.5' - REMOVE
- 30+69 SIGN, ONE WAY 32.2' - REMOVE
- 30+77 LIGHT POLE 52.0' - REMOVE BY OTHERS
- 31+16 CURB INLET 35.1' - REMOVE
- 31+57 MANHOLE 29.6' - REMOVE BY OTHERS
- 31+58 CURB INLET 42.6' - REMOVE
- 31+60 LIGHT POLE 32.1' - REMOVE BY OTHERS
- 31+66 GUY WIRE 30.9' - RELOCATE BY OTHERS
- 31+71 SIGN, STOP 31+97 FLAG POLE 42.1' - REMOVE
- 31+73 POWER POLE 29.8' - REMOVE
- 32+03 BUILDING 98.9' - REMOVE
- 32+03 BUILDING 94.9' - REMOVE
- 32+04 GAS METER 84.3' - REMOVE
- 32+08 BUILDING 11.7' - REMOVE
- 32+08 BUILDING 59.9' - REMOVE
- 32+15 SIGN, NO PARKING 30.2' - REMOVE
- 32+21 SAN MH 1.2' - ADJ. CASE 1
- 32+38 2" TREE 30.6' - REMOVE
- 32+43 BUILDING 60.1' - REMOVE
- 32+43 BUILDING 60.8' - REMOVE
- 32+66 LIGHT POLE 30.8' - REMOVE
- 32+74 POWER POLE 29.4' - REMOVE
- 30+90 STORM MH 50.2' - REMOVE
- 31+08 SIGN, STOP HERE 54.9' - REMOVE
- 31+21 POWER POLE 69.6' - REMOVE
- 31+24 ELECTRICAL HANDHOLE 34.4' - REMOVE
- 31+25 WATER VALVE 62.6' - ADJ. CASE 1
- 31+32 GUY WIRE 74.6' - REMOVE BY OTHERS
- 31+32 SIGN, STOP HERE 72.6' - REMOVE
- 31+35 FENCE 82.2' - REMOVE
- 31+35 WATER MH 57.3' - REMOVE
- 31+36 STORM MH 90.1' - REMOVE
- 31+42 FIRE HYDRANT 66.3' - PRESERVE
- 31+42 BENCHMARK 66.5' - PRESERVE
- 31+48 WATER SHUT OFF 66.6' - REMOVE
- 31+48 LIGHT POLE 60.0' - REMOVE BY OTHERS
- 31+65 GUY WIRE 69.4' - REMOVE BY OTHERS
- 31+66 POWER POLE 50.4' - RELOCATE BY OTHERS
- 31+71 ELECTRICAL HANDHOLE 48.3' - RELOCATE BY OTHERS
- 31+75 WATER VALVE 24.7' - REMOVE
- 31+85 CATCH BASIN 73.9' - REMOVE
- 31+97 GUY WIRE 48.3' - RELOCATE BY OTHERS
- 32+03 LIGHT POLE 47.9' - REMOVE BY OTHERS
- 32+04 ELECTRICAL HANDHOLE 45.9' - REMOVE BY OTHERS
- 32+26 SAN MH 11.1' - ADJ. CASE 1
- 32+33 STORM MH 48.3' - REMOVE
- 32+45 WATER SHUT OFF 50.2' - REMOVE

LEGEND

- SAWCUT AND REMOVE FULL DEPTH EXISTING PAVEMENT STRUCTURE PAID FOR AS PAVT, REM, MODIFIED
- SAWCUT AND REMOVE FULL DEPTH EXISTING HMA PAID FOR AS HMA SURFACE, REM
- SAWCUT AND REMOVE FULL DEPTH EXISTING CONCRETE PAID FOR AS PAVT, REM, MODIFIED
- SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK PAID FOR AS SIDEWALK, REM.

QUANTITIES THIS SHEET

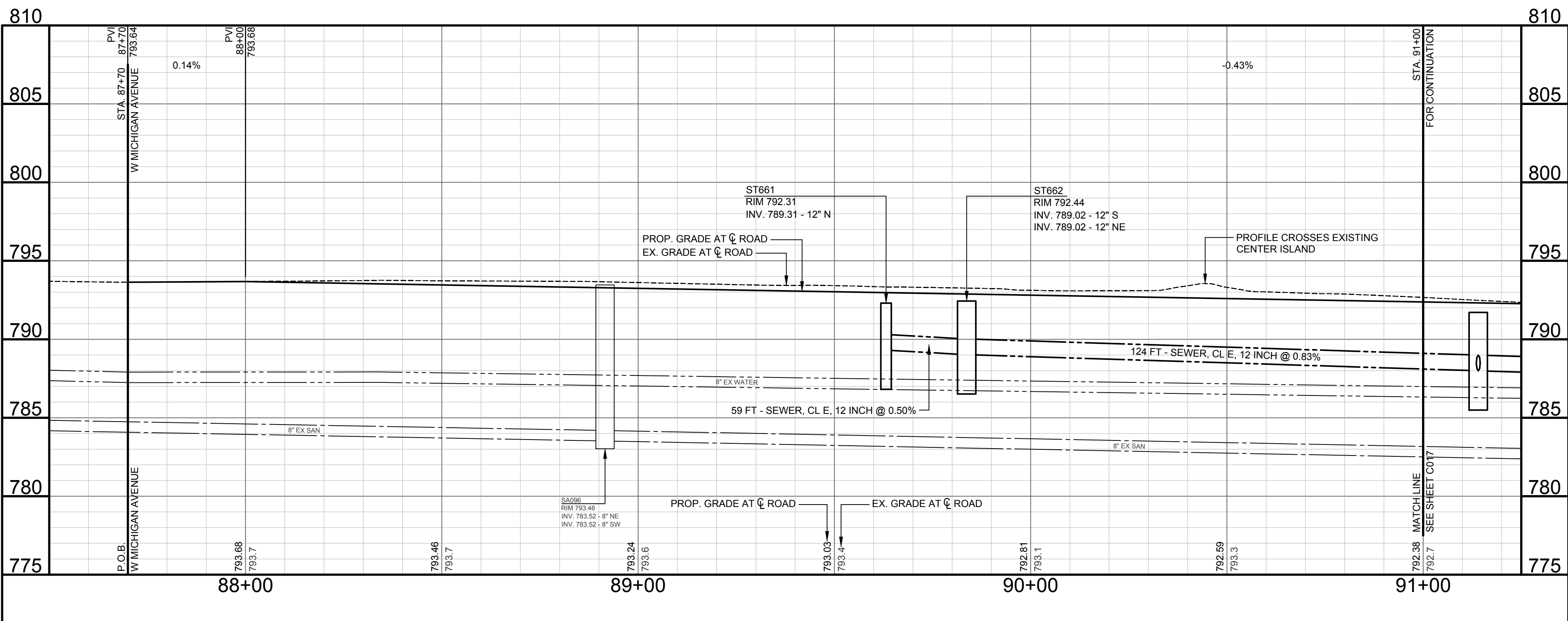
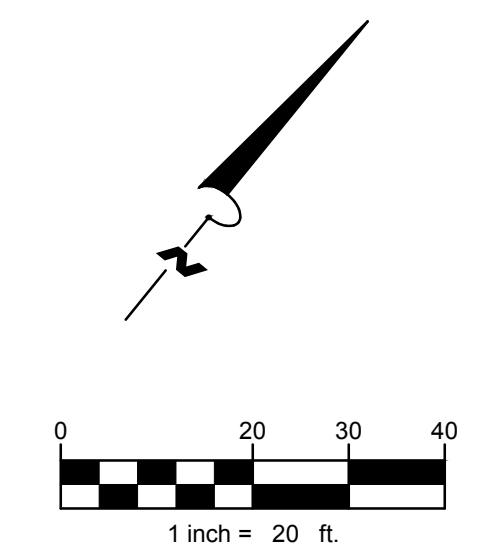
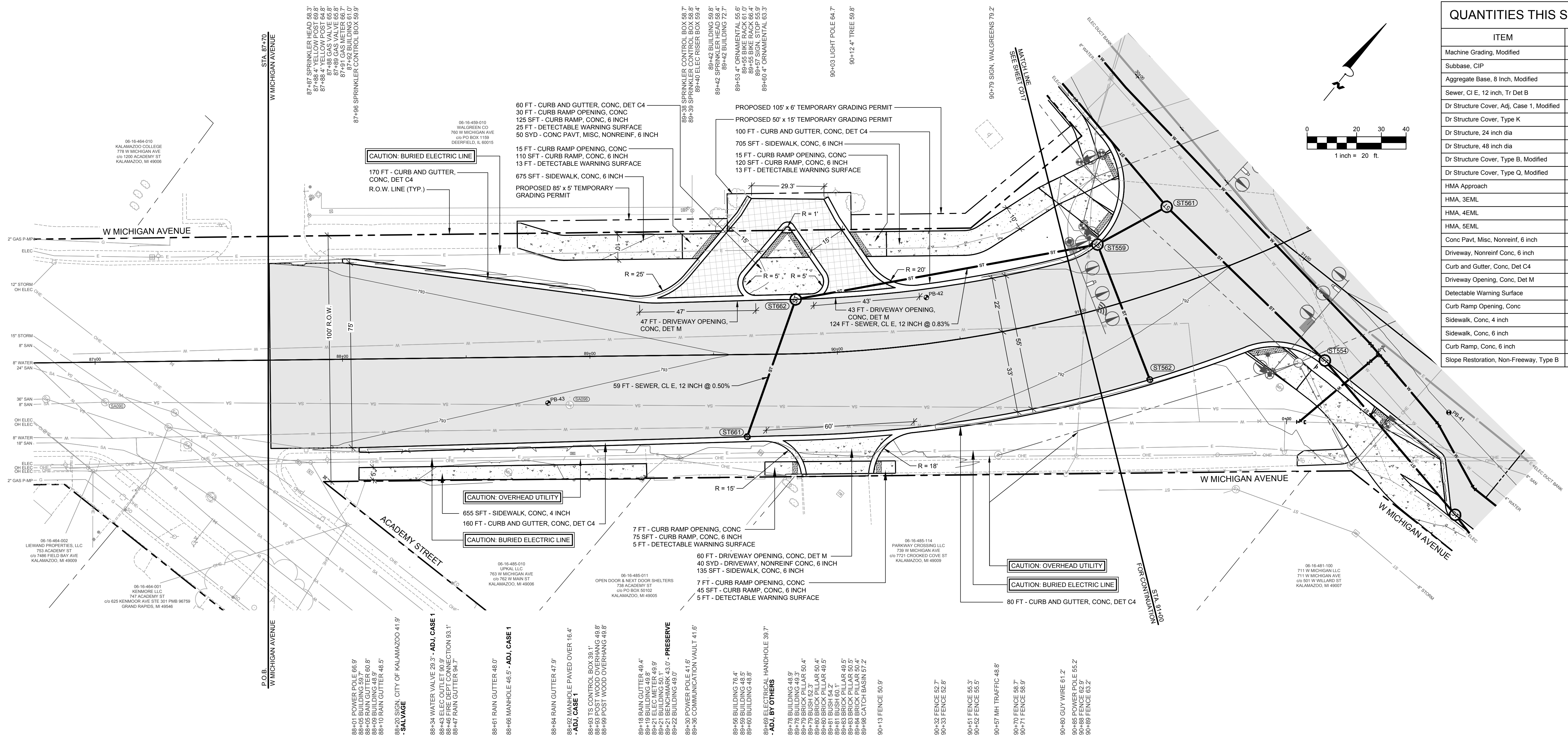
ITEM	QTY.
Machine Grading, Modified	3 Sta
Subbase, CIP	830 Cyd
Aggregate Base, 8 inch, Modified	2,500 Syd
Sewer, CI E, 12 inch, Tr Det B	185 Ft
Dr Structure Cover, Adj, Case 1, Modified	2 Ea
Dr Structure Cover, Type K	2 Ea
Dr Structure, 24 inch dia	1 Ea
Dr Structure, 48 inch dia	1 Ea
Dr Structure Cover, Type B, Modified	1 Ea
Dr Structure Cover, Type Q, Modified	1 Ea
HMA Approach	30 Ton
HMA, 3EML	405 Ton
HMA, 4EML	270 Ton
HMA, 5EML	205 Ton
Conc Pavt, Misc, Nonreinf, 6 inch	50 Syd
Driveway, Nonreinf Conc, 6 inch	40 Syd
Curb and Gutter, Conc, Det C4	570 Ft
Driveway Opening, Conc, Det M	150 Ft
Detectable Warning Surface	65 Ft
Curb Ramp Opening, Conc	75 Ft
Sidewalk, Conc, 4 inch	655 Sft
Sidewalk, Conc, 6 inch	1,510 Sft
Curb Ramp, Conc, 6 inch	475 Sft
Slope Restoration, Non-Freeway, Type B	750 Syd

WIGHTMAN
 433 E. RANSOM ST.
 KALAMAZOO, MI. 49007
 269.327.3532
 www.gowightman.com

PHILIP A. DOORLAG
 6201067363
 PROJECT NAME:

STREETS FOR ALL: MICHIKAL IMPROVEMENTS

CITY OF KALAMAZOO
 415 E STOCKBRIDGE AVENUE
 KALAMAZOO, MI 49001



LEGEND

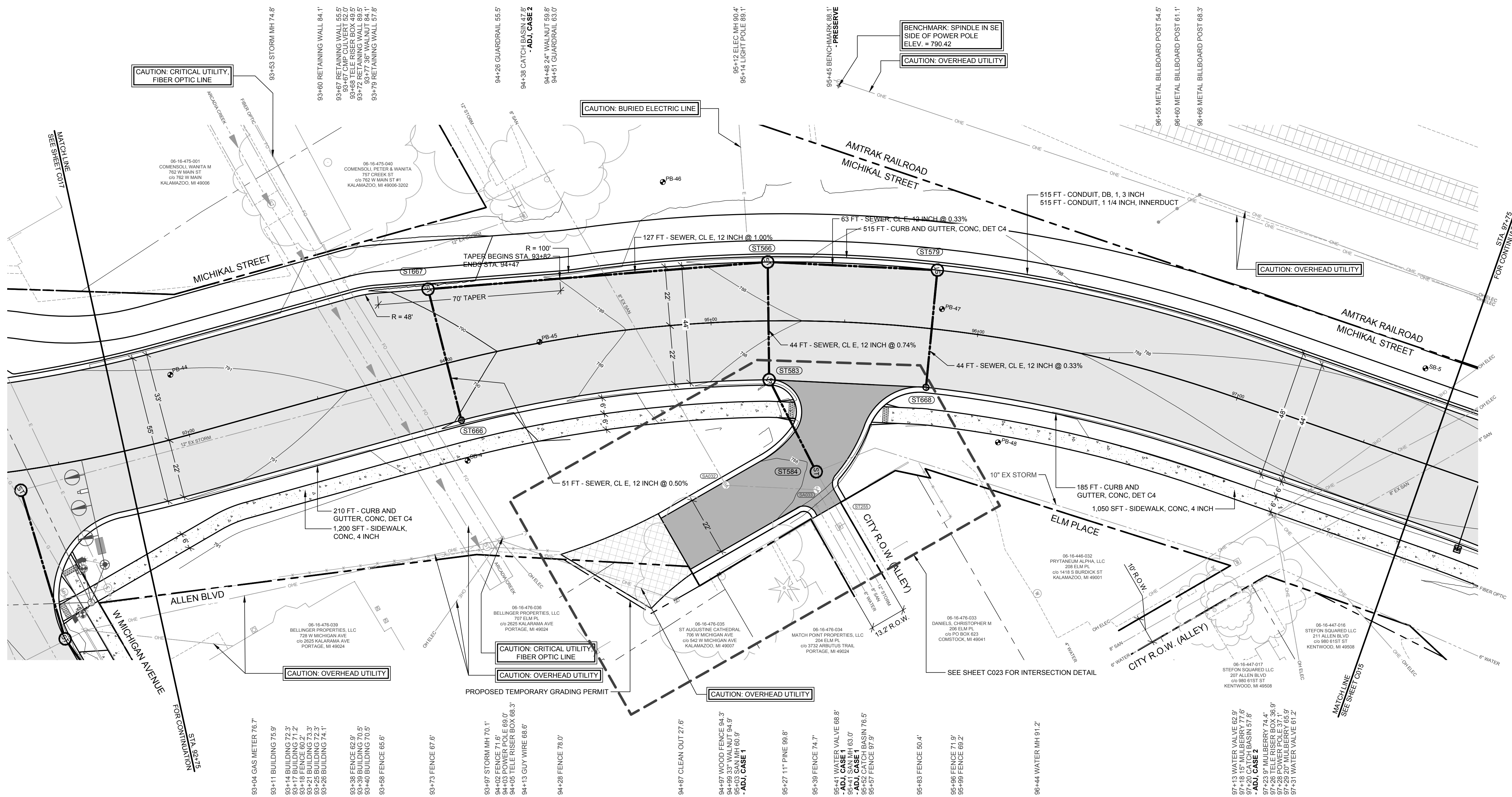
- INSTALL CONC BASE CSE, NONREINF, 6 INCH AND 220#/SYD HMA, 5EML (HAND PATCHING).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (BASE); 220#/SYD HMA, 4EML (LEVELING) AND 165#/SYD HMA, 5EML (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#/SYD HMA, APPROACH (LEVELING) AND 165#/SYD HMA, APPROACH (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (LEVELING) AND 220#/SYD HMA, 4EML (TOP).
- RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, 165 #/SYD HMA, APPROACH (LEVELING), AND 165#/SYD HMA, APPROACH (TOP)
- INSTALL SIDEWALK, CONC, 4 INCH; SIDEWALK, CONC, 6 INCH; CURB RAMP, CONC, 6 INCH AND DRIVEWAY, NONREINF CONC, 6 INCH AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- INSTALL DETECTABLE WARNING SURFACE AT PROPOSED SIDEWALK RAMPS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

REVISIONS

DATE	DESCRIPTION	BY
05/12/2023	ISSUED FOR BIDDING	PAD
04/10/25/2023	90% SUBMITTAL	PAD
01/06/30/2023	70% SUBMITTAL	PAD

PLAN AND PROFILE - BASE BID -
 W MICHIGAN AVE - STA. 87+70 (P.O.B.) TO STA. 91+00 (P.O.E.)

JOB No. 224022
C013
 OF 69



QUANTITIES THIS SHEET	
ITEM	QTY.
Machine Grading, Modified	5 Sta
Subbase, CIP	1,000 Cyd
Aggregate Base, 8 inch, Modified	2,750 Syd
Sewer, CI E, 12 inch, Tr Det B	330 Ft
Dr Structure Cover, Adj, Case 2	1 Ea
Dr Structure Cover, Type K	4 Ea
Dr Structure, 24 inch dia	1 Ea
Dr Structure, 48 inch dia	3 Ea
Dr Structure Cover, Type B, Modified	1 Ea
HMA, 3EML	475 Ton
HMA, 4EML	320 Ton
HMA, 5EML	240 Ton
Curb and Gutter, Conc, Det C4	910 Ft
Sidewalk, Conc, 4 inch	2,250 Sft
Slope Restoration, Non-Freeway, Type B	2,500 Syd
Conduit, DB, 1, 3 inch	515 Ft
Conduit, 1 1/4 inch, innerduct	515 Ft

WIGHTMAN

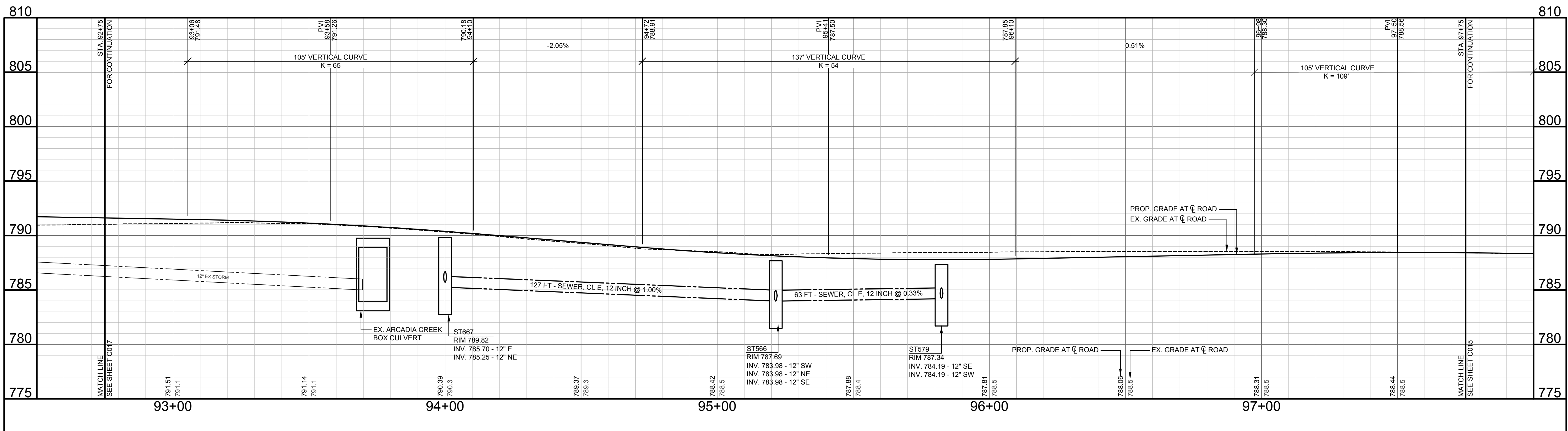
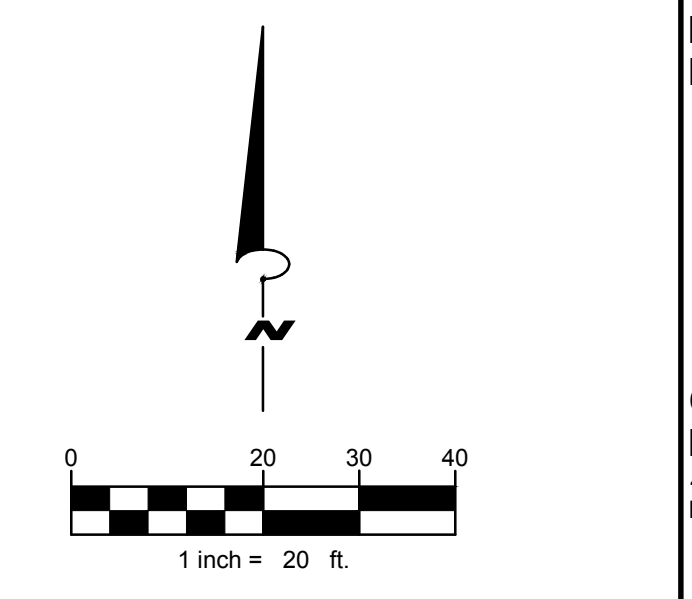
433 E. RANSOM ST.
KALAMAZOO, MI 49007
269.327.3532

www.wightman.com

PHILIP A. DOORLAG
6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



LEGEND

- INSTALL CONC BASE CSE, NONREINF, 6 INCH AND 220#SYD HMA, 5EML (HAND PATCHING).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#SYD HMA, 3EML (BASE); 220#SYD HMA, 4EML (LEVELING) AND 165#SYD HMA, 5EML (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#SYD HMA, APPROACH (LEVELING) AND 165#SYD HMA, APPROACH (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#SYD HMA, 3EML (LEVELING) AND 220#SYD HMA, 4EML (TOP).
- RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, 165 #SYD HMA, APPROACH (LEVELING), AND 165#SYD HMA, APPROACH (TOP).
- INSTALL SIDEWALK, CONC, 4 INCH; SIDEWALK, CONC, 6 INCH, CURB RAMP, CONC, 6 INCH AND DRIVEWAY, NONREINF CONC, 6 INCH AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- INSTALL DETECTABLE WARNING SURFACE AT PROPOSED SIDEWALK RAMPS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

05/12/01/2023 ISSUED FOR BIDDING PAD

04/10/25/2023 90% SUBMITTAL PAD

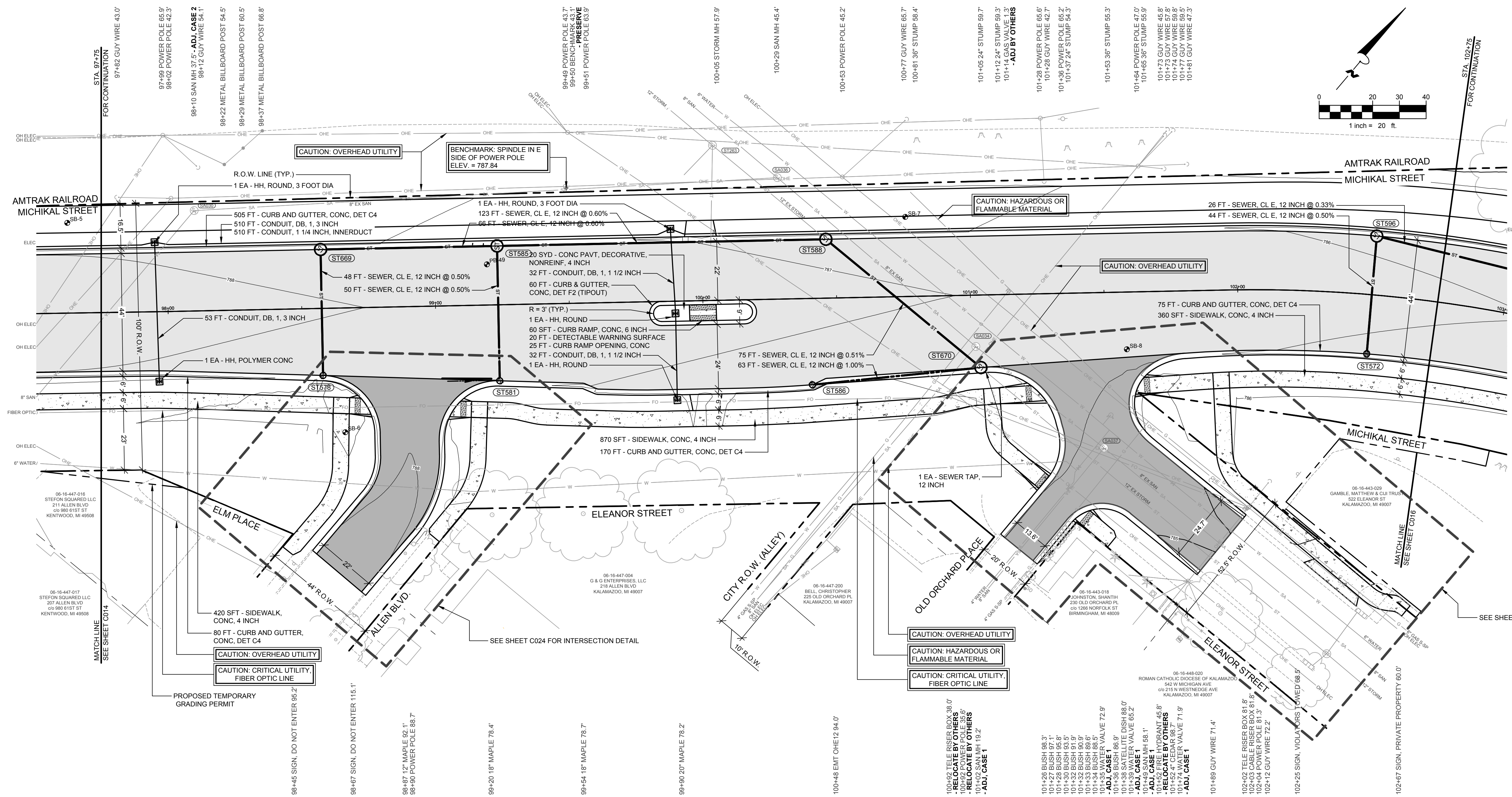
01/06/30/2023 70% SUBMITTAL PAD

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 20'H, 5'V

**PLAN AND PROFILE -
BASE BID -
MICHIKAL -
STA. 92+75 (P.O.B.) TO STA.
97+75**

JOB No. 224022
C014
OF 69



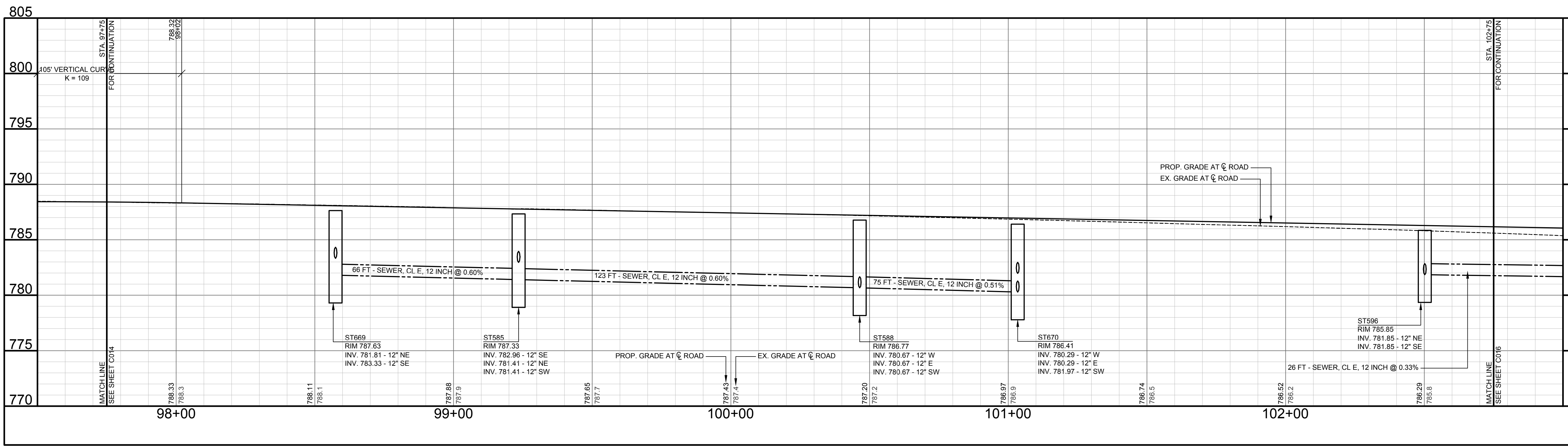
QUANTITIES THIS SHEET

ITEM	QTY.
Machine Grading, Modified	5 Sta
Subbase, CIP	1,000 Cyd
Aggregate Base, 8 inch, Modified	2,800 Syd
Sewer, Cl E, 12 inch, Tr Det B	515 Ft
Sewer Tap, 12 inch	1 Ea
Dr Structure Cover, Adj, Case 1, Modified	1 Ea
Dr Structure Cover, Adj, Case 2	1 Ea
Dr Structure Cover, Type K	7 Ea
Dr Structure, 24 inch dia	2 Ea
Dr Structure, 48 inch dia	5 Ea
Dr Structure Cover, Type Q, Modified	2 Ea
HMA, 3EML	480 Ton
HMA, 4EML	320 Ton
HMA, 5EML	240 Ton
Conc Pavt, Decorative, Nonreinf, 4 inch	20 Syd
Curb and Gutter, Conc, Det C4	830 Ft
Curb and Gutter, Conc, Det F2	60 Ft
Detectable Warning Surface	20 Ft
Curb Ramp Opening, Conc	25 Ft
Sidewalk, Conc, 4 inch	1,650 Sft
Curb Ramp, Conc, 6 inch	60 Sft
Slope Restoration, Non-Freeway, Type B	1,250 Syd
Conduit, DB, 1, 1 1/2 inch	70 Ft
Conduit, DB, 1, 3 inch	565 Ft
Hh, Polymer Conc	1 Ea
Hh, Round	2 Ea
Hh, Round, 3 foot dia	2 Ea
Conduit, 1 1/4 inch, innerduct	510 Ft

433 E. RANSOM ST.
KALAMAZOO, MI 49007
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PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

CITY OF
KALAMAZOO
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



LEGEND

- INSTALL CONC BASE CSE, NONREINF, 6 INCH AND 220#/SYD HMA, 5EML (HAND PATCHING).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (BASE); 220#/SYD HMA, 4EML (LEVELING) AND 165#/SYD HMA, 5EML (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#/SYD HMA, APPROACH (LEVELING) AND 165#/SYD HMA, APPROACH (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (LEVELING) AND 220#/SYD HMA, 4EML (TOP).
- RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, 165#/SYD HMA, APPROACH (LEVELING), AND 165#/SYD HMA, APPROACH (TOP).
- INSTALL SIDEWALK, CONC, 4 INCH; SIDEWALK, CONC, 6 INCH; CURB RAMP, CONC, 6 INCH AND DRIVEWAY, NONREINF CONC, 6 INCH AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- INSTALL DETECTABLE WARNING SURFACE AT PROPOSED SIDEWALK RAMPS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

05 12/01/2023 PAD
ISSUED FOR BIDDING

04 10/25/2023 PAD
90% SUBMITTAL

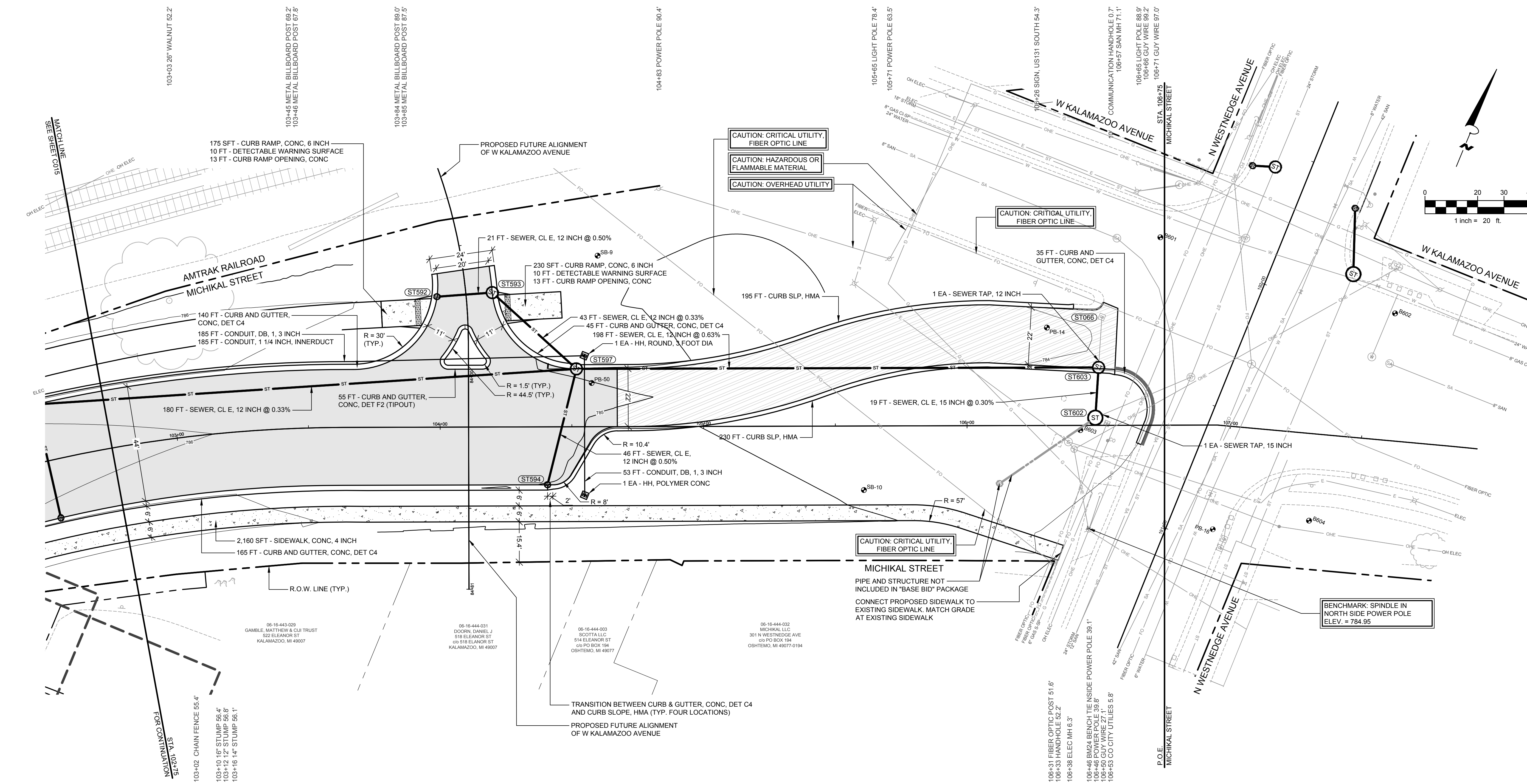
01 08/30/2023 PAD
70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 20'H, 5'V

PLAN AND PROFILE -
BASE BID -
MICHIKAL -
STA. 97+75 TO STA. 102+75

JOB No. 224022
C015
OF 69

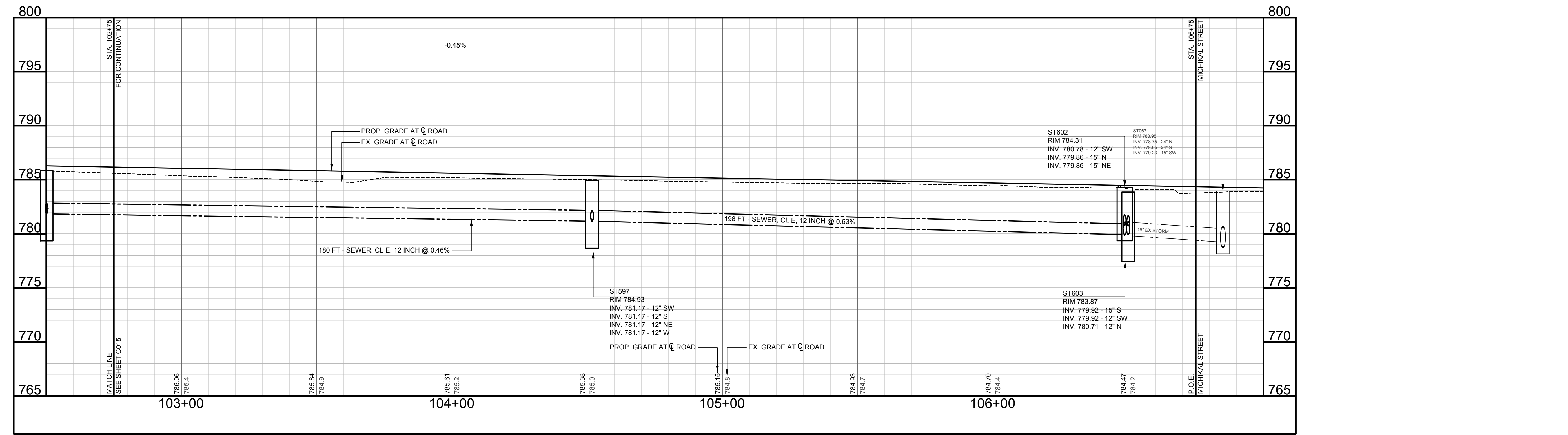


QUANTITIES THIS SHEET	
ITEM	QTY.
Machine Grading, Modified	4 Sta
Subbase, CIP	650 Cyd
Aggregate Base, 8 inch, Modified	1,650 Syd
Sewer, Cl E, 12 inch, Tr Det B	490 Ft
Sewer, Cl E, 15 inch, Tr Det B	20 Ft
Sewer Tap, 12 inch	1 Ea
Sewer Tap, 15 inch	1 Ea
Dr Structure Cover, Adj, Case 1, Modified	1 Ea
Dr Structure Cover, Type D	1 Ea
Dr Structure Cover, Type K	5 Ea
Dr Structure, 24 inch dia	2 Ea
Dr Structure, 48 inch dia	3 Ea
Dr Structure, 60 inch dia	1 Ea
Dr Structure Cover, Type B, Modified	1 Ea
HMA, 3EML	280 Ton
HMA, 4EML	185 Ton
HMA, 5EML	100 Ton
Conc Base Cse, Nonreinf, 6 inch	5 Syd
Curb and Gutter, Conc, Det C4	385 Ft
Curb and Gutter, Conc, Det F2	55 Ft
Detectable Warning Surface	20 Ft
Curb Ramp Opening, Conc	30 Ft
Sidewalk, Conc, 4 inch	2,160 Sft
Curb Ramp, Conc, 6 inch	405 Sft
Curb Slp, HMA	425 Ft
Slope Restoration, Non-Freeway, Type B	3,200 Syd
Conduit, DB, 1, 1 1/2 inch	185 Ft
Conduit, DB, 1, 3 inch	240 Ft
Hh, Polymer Conc	1 Ea
Hh, Round, 3 foot dia	1 Ea
Conduit, 1 1/4 inch, innerduct	240 Ft

W+
WIGHTMAN
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KALAMAZOO, MI 49007
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PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

CITY OF
KALAMAZOO
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



LEGEND

- INSTALL CONC BASE CSE, NONREINF, 6 INCH AND 220#/SYD HMA, 5EML (HAND PATCHING)
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (BASE); 220#/SYD HMA, 4EML (LEVELING) AND 165#/SYD HMA, 5EML (TOP)
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#/SYD HMA, APPROACH (LEVELING) AND 165#/SYD HMA, APPROACH (TOP)
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (LEVELING) AND 220#/SYD HMA, 4EML (TOP)
- RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, 165 #/SYD HMA, APPROACH (LEVELING), AND 165#/SYD HMA, APPROACH (TOP)
- INSTALL SIDEWALK, CONC, 4 INCH; SIDEWALK, CONC, 6 INCH; CURB RAMP, CONC, 6 INCH AND DRIVEWAY, NONREINF CONC, 6 INCH AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- INSTALL DETECTABLE WARNING SURFACE AT PROPOSED SIDEWALK RAMPS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

05 12/01/2023 PAD
ISSUED FOR BIDDING

04 10/25/2023 PAD
90% SUBMITTAL

01 08/30/2023 PAD
70% SUBMITTAL

REVISIONS

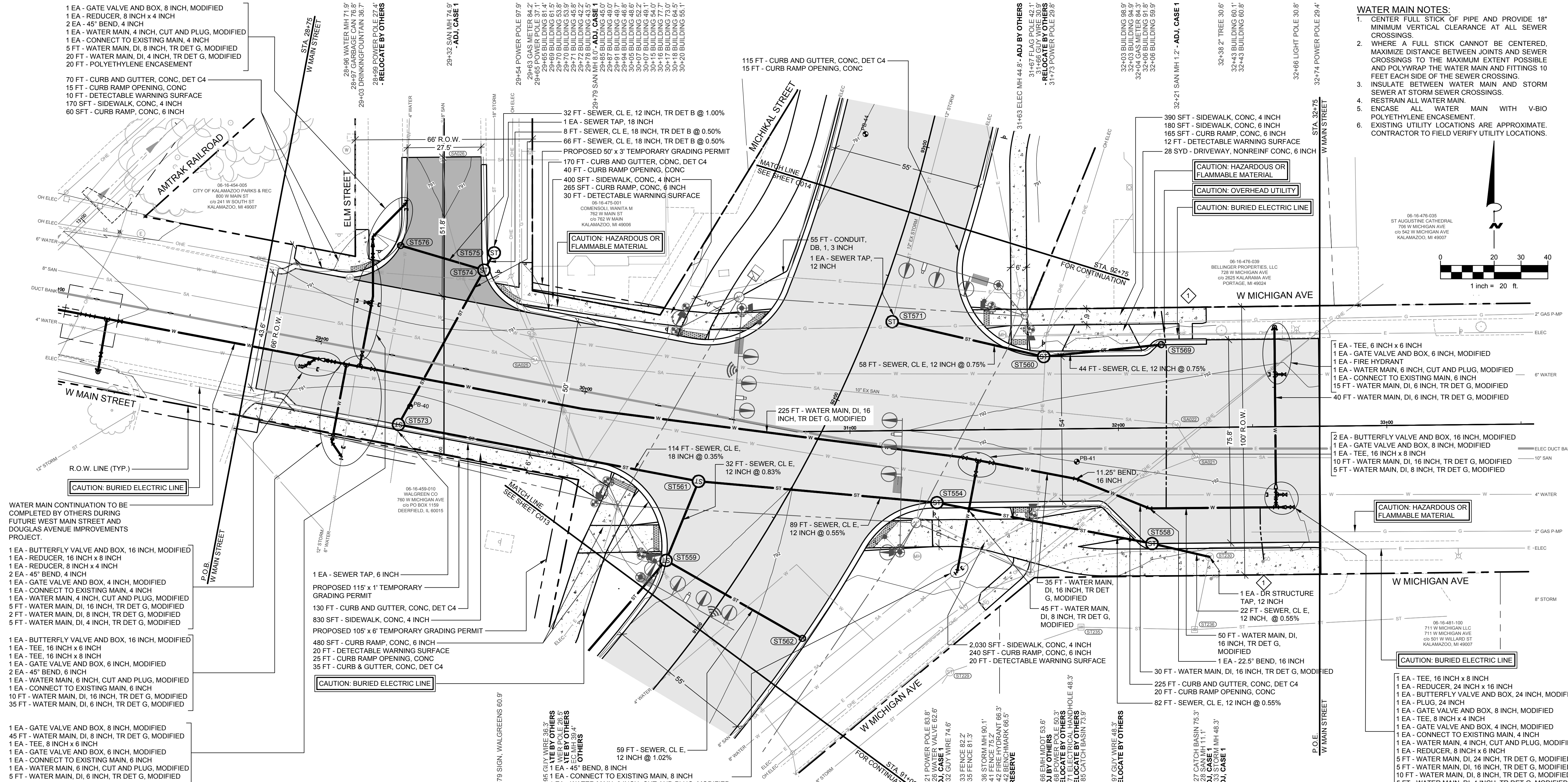
DATE: DECEMBER, 2023
SCALE: 1" = 20'H, 5'V

**PLAN AND PROFILE -
BASE BID -
MICHIKAL -
STA. 102+75 TO STA. 106+75
(P.O.E.)**

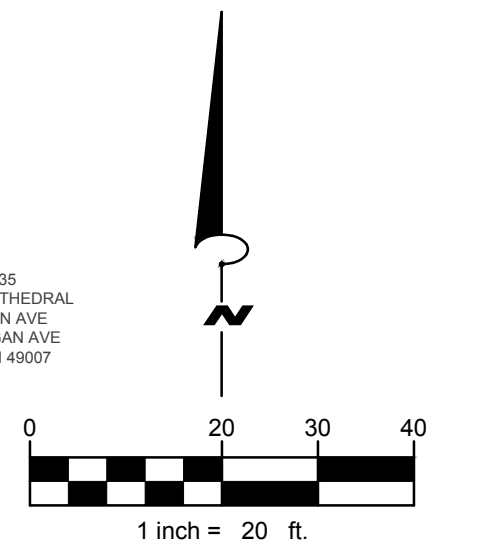
JOB No. 224022
C016
OF 69

- 1 EA - GATE VALVE AND BOX, 8 INCH, MODIFIED
- 2 EA - REDUCER, 8 INCH X 4 INCH
- 1 EA - 45° BEND, 4 INCH
- 1 EA - WATER MAIN, 4 INCH, CUT AND PLUG, MODIFIED
- 1 EA - CONNECT TO EXISTING MAIN, 4 INCH
- 5 FT - WATER MAIN, DI, 8 INCH, TR DET G, MODIFIED
- 20 FT - WATER MAIN, DI, 4 INCH, TR DET G, MODIFIED
- 80 FT - POLYETHYLENE ENCASUREMENT

- 70 FT - CURB AND GUTTER, CONC, DET C4
- 15 FT - CURB RAMP OPENING, CONC
- 10 FT - DETECTABLE WARNING SURFACE
- 170 FT - SIDEWALK, CONC, 4 INCH
- 60 SFT - CURB RAMP, CONC, 6 INCH



- WATER MAIN NOTES:**
- CENTER FULL STICK OF PIPE AND PROVIDE 18" MINIMUM VERTICAL CLEARANCE AT ALL SEWER CROSSINGS.
 - WHERE A FULL STICK CANNOT BE CENTERED, MAXIMIZE DISTANCE BETWEEN JOINTS AND SEWER CROSSINGS TO THE MAXIMUM EXTENT POSSIBLE AND POLYWRAP THE WATER MAIN AND FITTINGS 10 FEET EACH SIDE OF THE SEWER CROSSING.
 - INSULATE BETWEEN WATER MAIN AND STORM SEWER AT STORM SEWER CROSSINGS.
 - RESTRAIN ALL WATER MAIN.
 - ENCASE ALL WATER MAIN WITH V-BIO POLYETHYLENE ENCASUREMENT.
 - EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY UTILITY LOCATIONS.



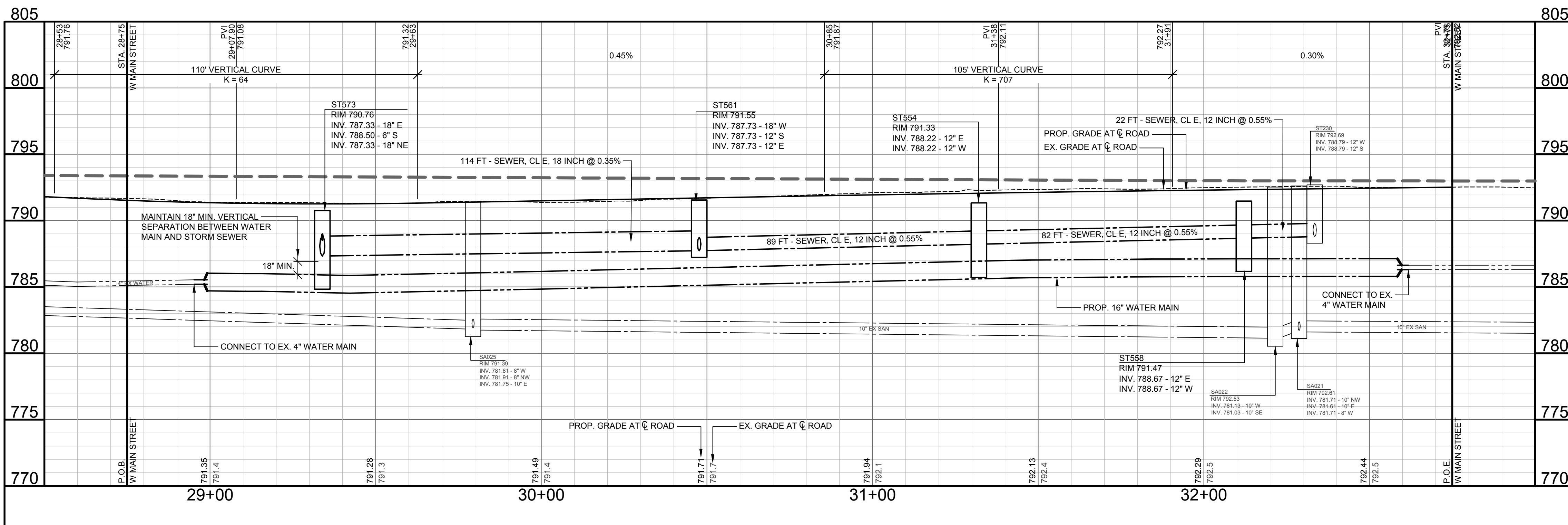
ITEM	QTY.
Embankment, CIP	350 Cyd
Subbase, CIP	1,350 Cyd
Aggregate Base, 8 inch, Modified	3,750 Syd
Sewer, CI E, 12 inch, Tr Det B	420 Ft
Sewer, CI E, 18 inch, Tr Det B	190 Ft
Sewer Tap, 6 inch	1 Ea
Sewer Tap, 12 inch	1 Ea
Sewer Tap, 18 inch	1 Ea
Dr Structure Cover, Adj, Case 1	5 Ea
Dr Structure Cover, Type K	9 Ea
Dr Structure, 24 inch dia	3 Ea
Dr Structure, 48 inch dia	9 Ea
Dr Structure, Tap, 12 inch	1 Ea
Dr Structure Cover, Type B, Modified	4 Ea
Dr Structure Cover, Type Q, Modified	4 Ea
HMA Approach	35 Ton
HMA, 3EML	610 Ton
HMA, 4EML	410 Ton
HMA, 5EML	305 Ton
Driveway, Nonrein Conc, 6 inch	30 Syd
Curb and Gutter, Conc, Det C4	750 Ft
Detectable Warning Surface	95 Ft
Curb Ramp Opening, Conc	115 Ft
Sidewalk, Conc, 4 inch	3,850 Sft
Sidewalk, Conc, 6 inch	180 Sft
Curb Ramp, Conc, 6 inch	1,250 Sft
Slope Restoration, Non-Freeway, Type B	800 Syd
Conduit, DB, 1, 3 inch	55 Ft
Polyethylene Encasement	20 Ft
Water Main, DI, 4 inch, Tr Det G	30 Ft
Water Main, DI, 6 inch, Tr Det G	95 Ft
Water Main, DI, 8 inch, Tr Det G	115 Ft
Water Main, DI, 16 inch, Tr Det G	370 Ft
Water Main, DI, 24 inch, Tr Det G	5 Ft
Copper Water Service Pipe, 1 1/4 inch	100 Ft
Gate Valve and Box, 4 inch	2 Ea
Gate Valve and Box, 6 inch	3 Ea
Gate Valve and Box, 8 inch	4 Ea
Butterfly Valve and Box, 16 inch	4 Ea
Butterfly Valve and Box, 24 inch	1 Ea
Fire Hydrant	1 Ea
Connect to Existing Main, 4 inch	3 Ea
Connect to Existing Main, 6 inch	3 Ea
Connect to Existing Main, 8 inch	1 Ea
Water Main, 4 inch, Cut and Plug	3 Ea
Water Main, 6 inch, Cut and Plug	3 Ea
Water Main, 8 inch, Cut and Plug	1 Ea
Water Main Line Stop, 4 inch	6 Ea
Water Main Line Stop, 6 inch	6 Ea
Water Main Line Stop, 8 inch	2 Ea
Curb Stop, 1 1/4 inch	2 Ea
Water Service, 1 1/4 inch	2 Ea
Compact Ductile Iron Fittings	2,500 Lb

WIGHTMAN
433 E. RANSOM ST.
KALAMAZOO, MI 49007
269.327.3532
www.wightman.com

PHILIP A. DOORLAG
6201067363
PROJECT NAME:

STREETS FOR ALL: MICHIKAL IMPROVEMENTS

CITY OF KALAMAZOO
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



- REPLACE EXISTING WATER SERVICE FROM THE MAIN TO THE R.O.W. PAID FOR AS WATER SERVICE, 1 1/4 INCH AND COPPER WATER SERVICE PIPE, 1 1/4 INCH. REPLACE THE CURB STOP OR METER BOX AS DIRECTED BY THE ENGINEER PAID FOR AS CURB STOP, 1 1/4 INCH OR METER BOX.
- LEGEND**
- INSTALL CONC BASE CSE, NONREIN, 6 INCH AND 220#/SYD HMA, SEMI (HAND PATCHING).
 - INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (BASE); 220#/SYD HMA, 4EML (LEVELING) AND 165#/SYD HMA, 5EML (TOP).
 - INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#/SYD HMA, APPROACH (LEVELING) AND 165#/SYD HMA, APPROACH (TOP).
 - INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (LEVELING) AND 220#/SYD HMA, 4EML (TOP).
 - RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, 165#/SYD HMA, APPROACH (LEVELING), AND 165#/SYD HMA, APPROACH (TOP).
 - INSTALL SIDEWALK, CONC, 4 INCH; SIDEWALK, CONC, 6 INCH; CURB RAMP, CONC, 6 INCH AND DRIVEWAY, NONREIN CONC, 6 INCH AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - INSTALL DETECTABLE WARNING SURFACE AT PROPOSED SIDEWALK RAMPS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

NO.	DATE	DESCRIPTION
05	12/01/2023	PAD ISSUED FOR BIDDING
04	10/25/2023	PAD 90% SUBMITTAL
03	07/24/2023	PAD RE-ISSUED FOR EGLE PART 399 PERMIT
02	07/03/2023	PAD ISSUED FOR EGLE PART 399 PERMIT
01	06/30/2023	PAD 70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 20'

PLAN AND PROFILE - BASE BID - W. MAIN
STA. 28+75 (P.O.B.) TO STA. 32+75 (P.O.E.)

JOB No. 224022
C017
OF 69

QUANTITIES THIS SHEET

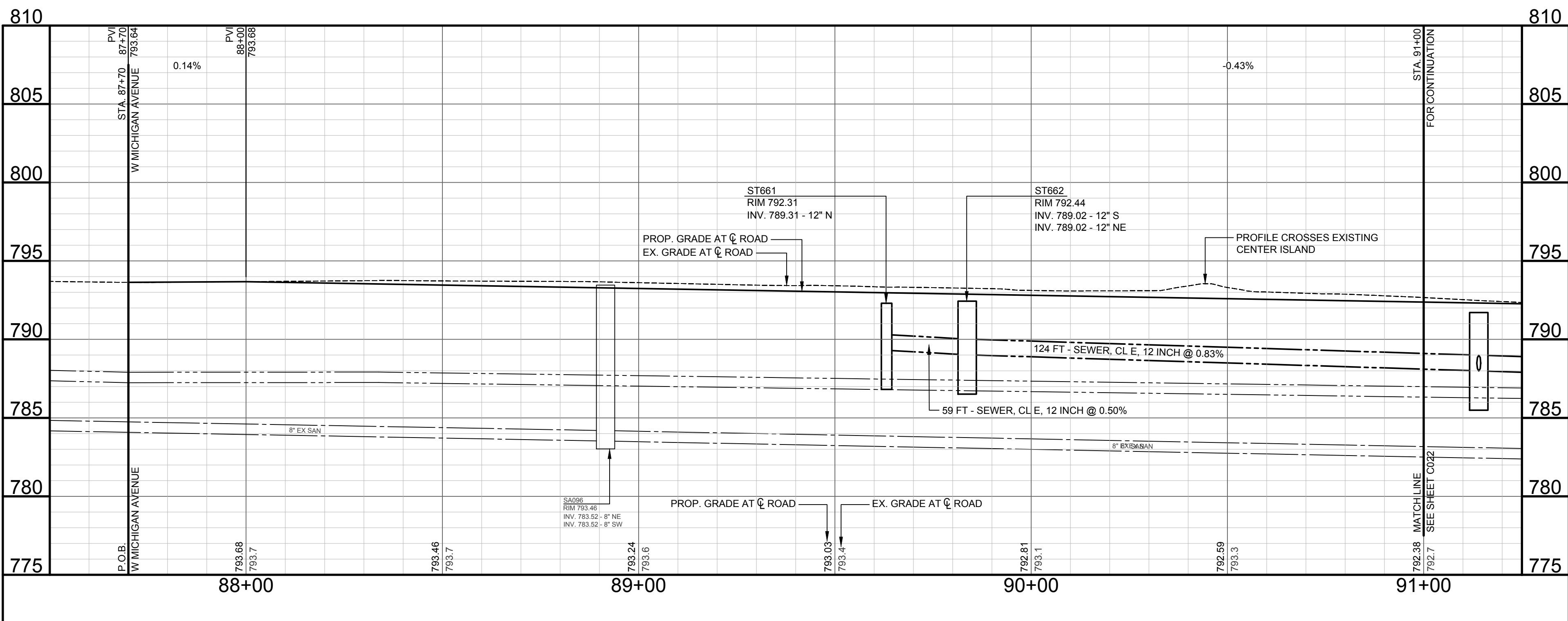
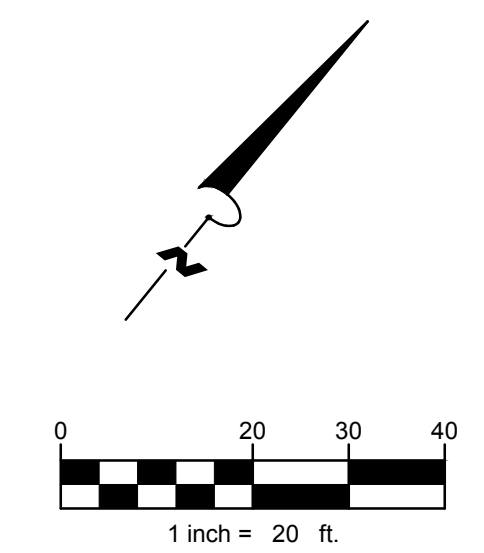
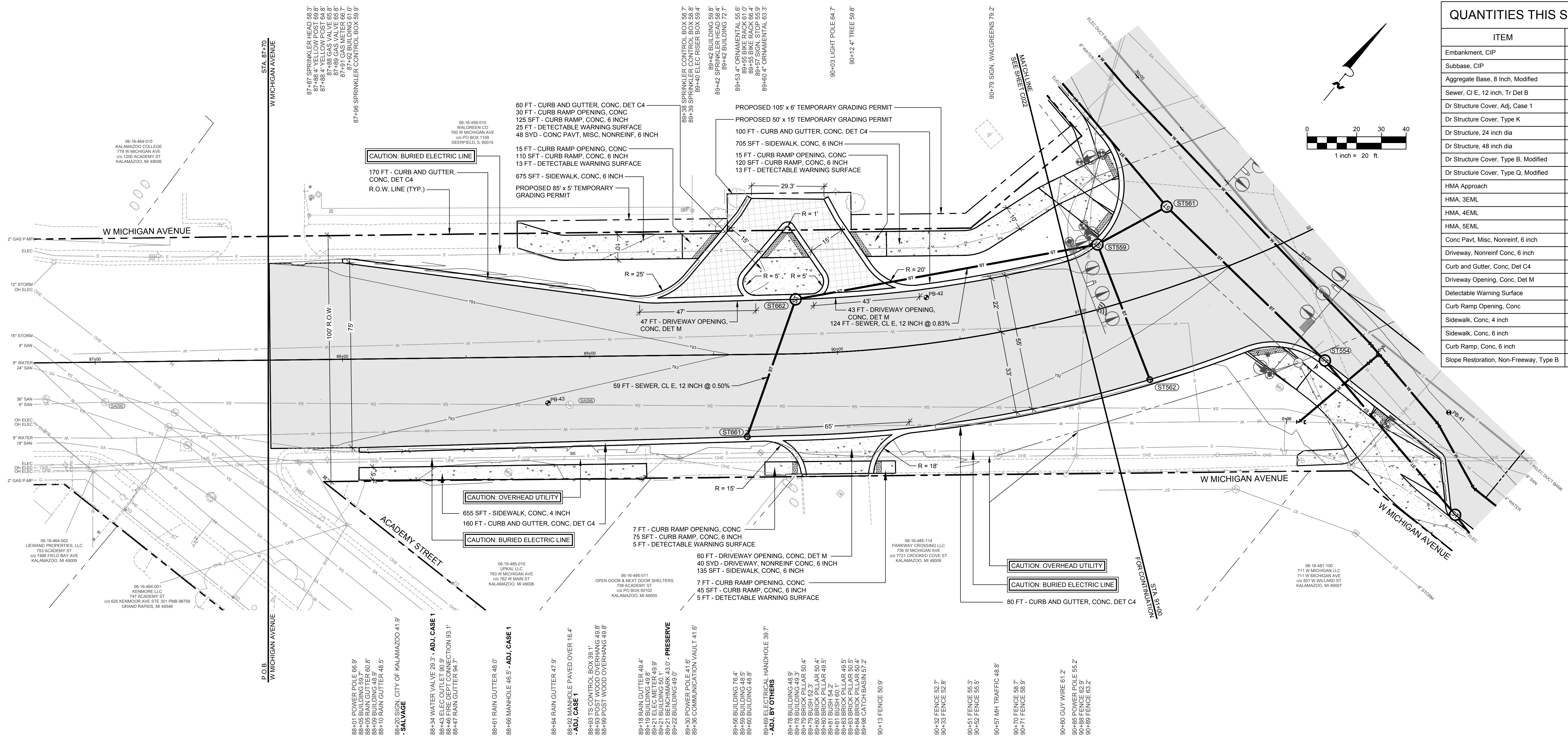
ITEM	QTY.
Embankment, CIP	110 Cyd
Subbase, CIP	830 Cyd
Aggregate Base, 8 inch, Modified	2,500 Syd
Sewer, CI E, 12 inch, Tr Det B	185 Ft
Dr Structure Cover, Adj, Case 1	2 Ea
Dr Structure Cover, Type K	2 Ea
Dr Structure, 24 inch dia	1 Ea
Dr Structure, 48 inch dia	1 Ea
Dr Structure Cover, Type B, Modified	1 Ea
Dr Structure Cover, Type Q, Modified	1 Ea
HMA Approach	30 Ton
HMA, 3EML	405 Ton
HMA, 4EML	270 Ton
HMA, 5EML	205 Ton
Conc Pavt, Misc, Nonreinf, 6 inch	50 Syd
Driveway, Nonreinf Conc, 6 inch	40 Syd
Curb and Gutter, Conc, Det C4	570 Ft
Driveway Opening, Conc, Det M	150 Ft
Detectable Warning Surface	65 Ft
Curb Ramp Opening, Conc	75 Ft
Sidewalk, Conc, 4 inch	655 Sft
Sidewalk, Conc, 6 inch	1,510 Sft
Curb Ramp, Conc, 6 inch	475 Sft
Slope Restoration, Non-Freeway, Type B	750 Syd

W+
WIGHTMAN
433 E. RANSOM ST.
KALAMAZOO, MI. 49007
269.327.3532
www.gowightman.com

PHILIP A. DOORLAG
6201067363
PROJECT NAME:

**STREETS FOR ALL:
MICHICAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



LEGEND

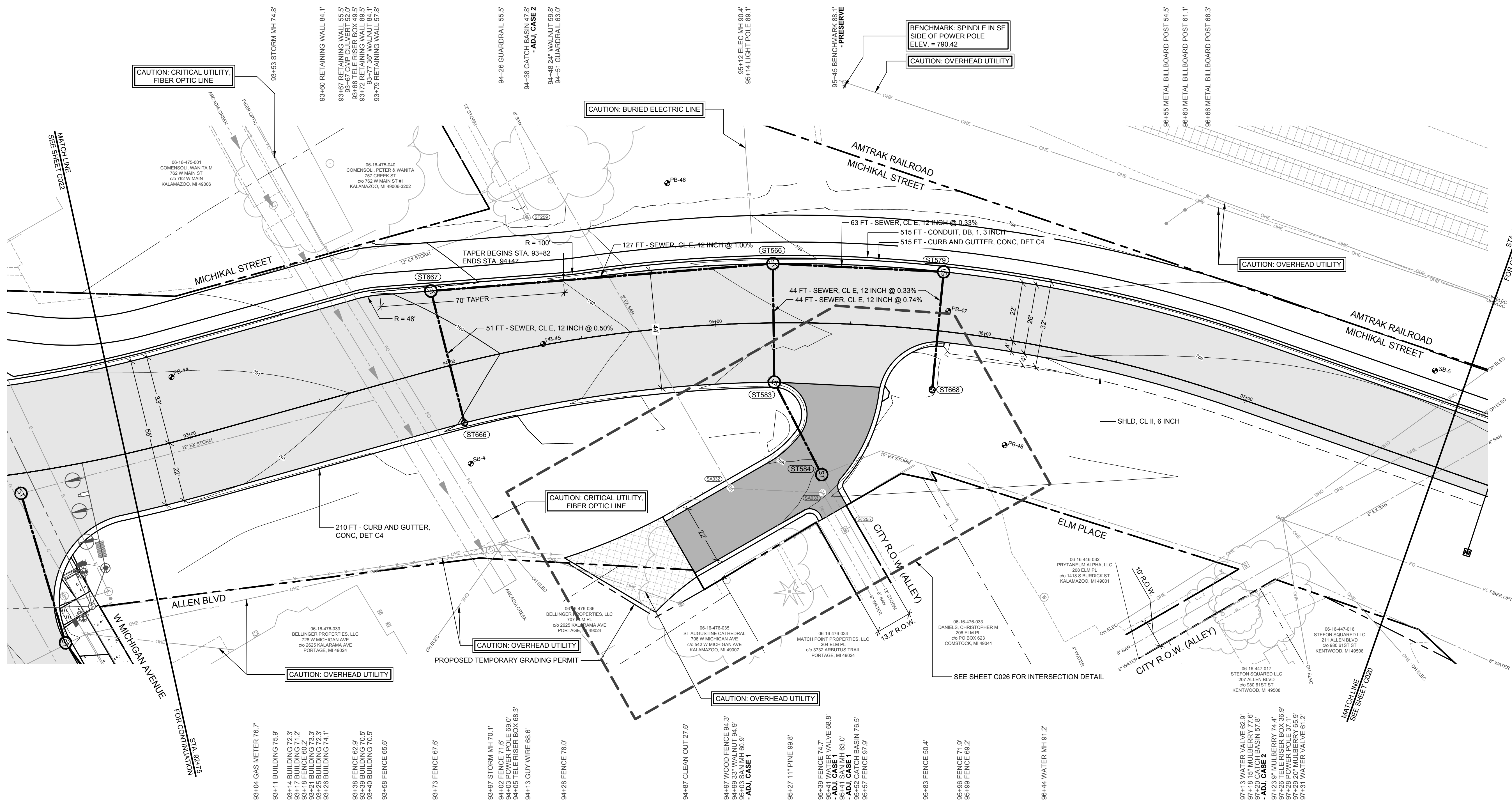
- INSTALL CONC BASE CSE, NONREINF, 6 INCH AND 220#/SYD HMA, 5EML (HAND PATCHING).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (BASE); 220#/SYD HMA, 4EML (LEVELING) AND 165#/SYD HMA, 5EML (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#/SYD HMA, APPROACH (LEVELING) AND 165#/SYD HMA, APPROACH (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (LEVELING) AND 220#/SYD HMA, 4EML (TOP).
- RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, 165 #/SYD HMA, APPROACH (LEVELING), AND 165#/SYD HMA, APPROACH (TOP)
- INSTALL SIDEWALK, CONC, 4 INCH; SIDEWALK, CONC, 6 INCH; CURB RAMP, CONC, 6 INCH AND DRIVEWAY, NONREINF CONC, 6 INCH AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- INSTALL DETECTABLE WARNING SURFACE AT PROPOSED SIDEWALK RAMPS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

05 12/01/2023 PAD ISSUED FOR BIDDING
04 10/25/2023 PAD 90% SUBMITTAL
01 06/30/2023 PAD 70% SUBMITTAL

REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 20'H, 5'V

**PLAN AND PROFILE -
ALTERNATE A -
W MICHIGAN AVE -
STA. 87+70 (P.O.B.) TO STA.
91+00 (P.O.E.)**

JOB No. 224022
C018
OF 69

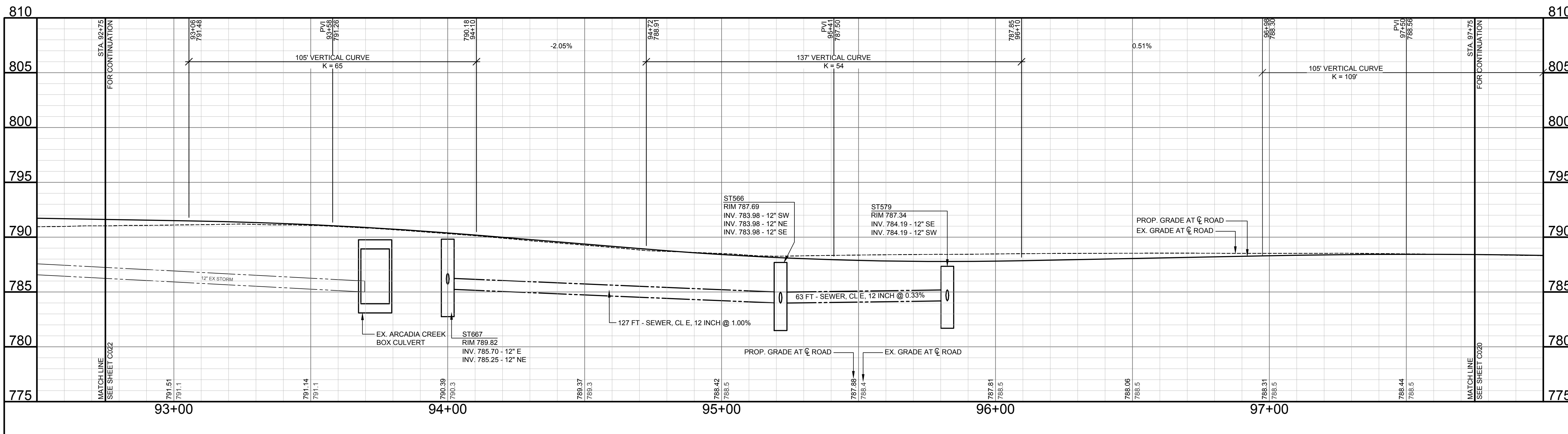


QUANTITIES THIS SHEET	
ITEM	QTY.
Embankment, CIP	1,300 Cyd
Subbase, CIP	900 Cyd
Aggregate Base, 8 inch, Modified	2,750 Syd
Shld, Cl II, 6 inch	85 Syd
Sewer, Cl E, 12 inch, Tr Det B	330 Ft
Dr Structure Cover, Adj, Case 2	1 Ea
Dr Structure Cover, Type K	4 Ea
Dr Structure, 24 inch dia	1 Ea
Dr Structure, 48 inch dia	3 Ea
Dr Structure Cover, Type B, Modified	1 Ea
HMA, 3EML	405 Ton
HMA, 4EML	270 Ton
HMA, 5EML	205 Ton
Curb and Gutter, Conc, Det C4	725 Ft
Slope Restoration, Non-Freeway, Type B	2,800 Syd
Conduit, DB, 1, 3 inch	515 Ft

WIGHTMAN
 433 E. RANSOM ST.
 KALAMAZOO, MI. 49007
 269.327.3532
 www.wightman.com

PHILIP A. DOORLAG
 6201067363
 PROJECT NAME:
**STREETS FOR ALL:
 MICHIKAL
 IMPROVEMENTS**

**CITY OF
 KALAMAZOO**
 415 E STOCKBRIDGE AVENUE
 KALAMAZOO, MI 49001



LEGEND

- INSTALL CONC BASE CSE, NONREINF, 6 INCH AND 220#/SYD HMA, 5EML (HAND PATCHING)
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (BASE); 220#/SYD HMA, 4EML (LEVELING) AND 165#/SYD HMA, 5EML (TOP)
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#/SYD HMA, APPROACH (LEVELING) AND 165#/SYD HMA, APPROACH (TOP)
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (LEVELING) AND 220#/SYD HMA, 4EML (TOP)
- RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, MODIFIED, AND 165#/SYD HMA, APPROACH (TOP)
- INSTALL SIDEWALK, CONC, 4 INCH; SIDEWALK, CONC, 6 INCH; CURB RAMP, CONC, 6 INCH AND DRIVEWAY, NONREINF CONC, 6 INCH AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- INSTALL DETECTABLE WARNING SURFACE AT PROPOSED SIDEWALK RAMPS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

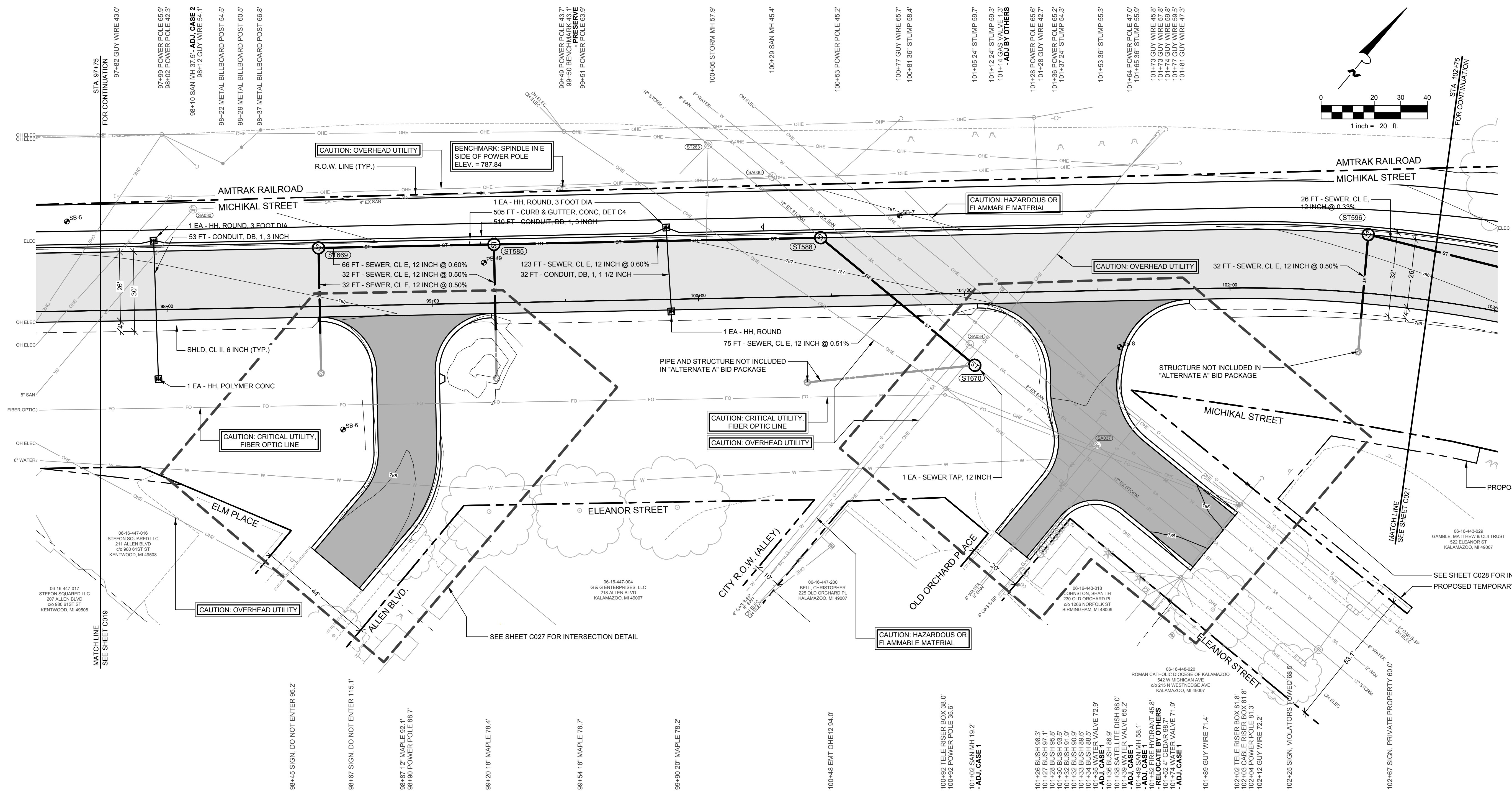
05/12/2023 PAD ISSUED FOR BIDDING
 04/10/25/2023 PAD 90% SUBMITTAL
 01/06/30/2023 PAD 70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
 SCALE: 1" = 20'H, 5'V

**PLAN AND PROFILE -
 ALTERNATE A -
 MICHIKAL -
 STA. 92+75 (P.O.B.) TO STA.
 97+75**

JOB No. 224022
C019
 OF 69

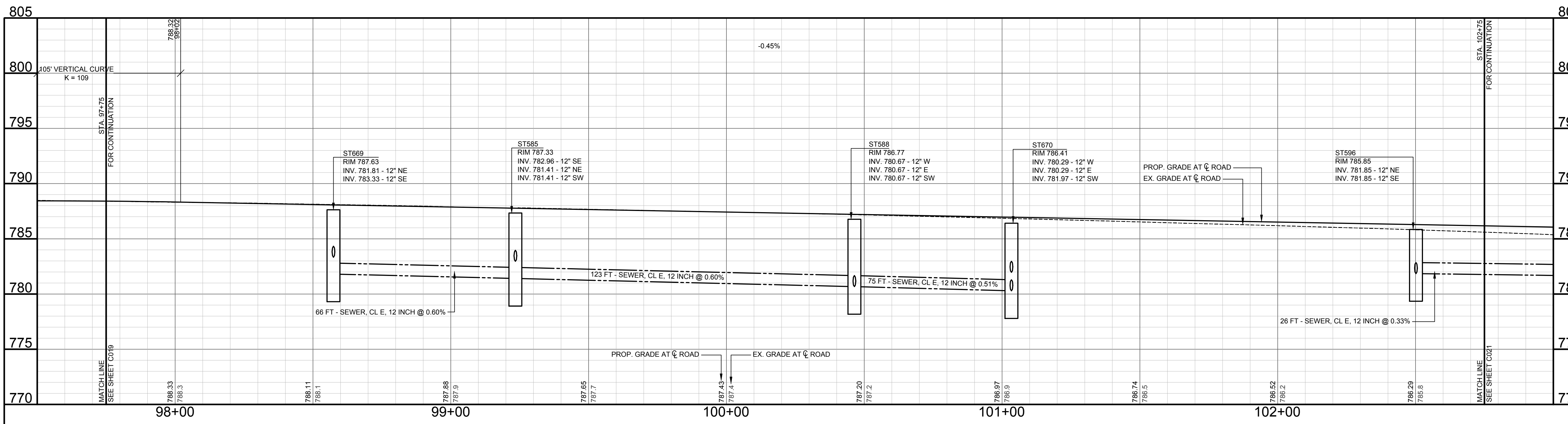


QUANTITIES THIS SHEET	
ITEM	QTY.
Machine Grading, Modified	5 Sta
Subbase, CIP	650 Cyd
Aggregate Base, 8 inch, Modified	1,550 Syd
Shield, Cl II, 6 inch	180 Syd
Sewer, Cl E, 12 inch, Tr Det B	390 Ft
Sewer Tap, 12 inch	1 Ea
Dr Structure Cover, Adj, Case 2	2 Ea
Dr Structure Cover, Type K	4 Ea
Dr Structure, 48 inch dia	5 Ea
Dr Structure Cover, Type B, Modified	1 Ea
Dr Structure Cover, Type Q, Modified	2 Ea
HMA, 3EML	265 Ton
HMA, 4EML	175 Ton
HMA, 5EML	135 Ton
Curb and Gutter, Conc, Det C4	505 Ft
Slope Restoration, Non-Freeway, Type B	2,050 Syd
Conduit, DB, 1, 1 1/2 inch	35 Ft
Conduit, DB, 1, 3 inch	565 Ft
Hh, Polymer Conc	1 Ea
Hh, Round	1 Ea
Hh, Round, 3 foot dia	2 Ea
Conduit, 1 1/4 inch, innerduct	565 Ft

WIGHTMAN
 433 E. RANSOM ST.
 KALAMAZOO, MI. 49007
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PROJECT NAME:
**STREETS FOR ALL:
 MICHIKAL
 IMPROVEMENTS**

CITY OF
KALAMAZOO
 415 E STOCKBRIDGE AVENUE
 KALAMAZOO, MI 49001



LEGEND

- INSTALL CONC BASE CSE, NONREINF, 6 INCH AND 220#/SYD HMA, 5EML (HAND PATCHING).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (BASE); 220#/SYD HMA, 4EML (LEVELING) AND 165#/SYD HMA, 5EML (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#/SYD HMA, APPROACH (LEVELING) AND 165#/SYD HMA, APPROACH (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (LEVELING) AND 220#/SYD HMA, 4EML (TOP).
- RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, 165#/SYD HMA, APPROACH (LEVELING), AND 165#/SYD HMA, APPROACH (TOP).
- INSTALL SIDEWALK, CONC, 4 INCH; SIDEWALK, CONC, 6 INCH; CURB RAMP, CONC, 6 INCH AND DRIVEWAY, NONREINF CONC, 6 INCH AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- INSTALL DETECTABLE WARNING SURFACE AT PROPOSED SIDEWALK RAMPS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

05/12/2023 PAD ISSUED FOR BIDDING
 04/10/25/2023 PAD 90% SUBMITTAL
 01/06/30/2023 PAD 70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
 SCALE: 1" = 20'H, 5'V

PLAN AND PROFILE - ALTERNATE A - MICHIKAL - STA. 97+75 TO STA. 102+75

JOB No. 224022
C020
 OF 69



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433 E. RANSOM ST.
KALAMAZOO, MI 49007
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PHILIP A. DOORLAG
6201067363

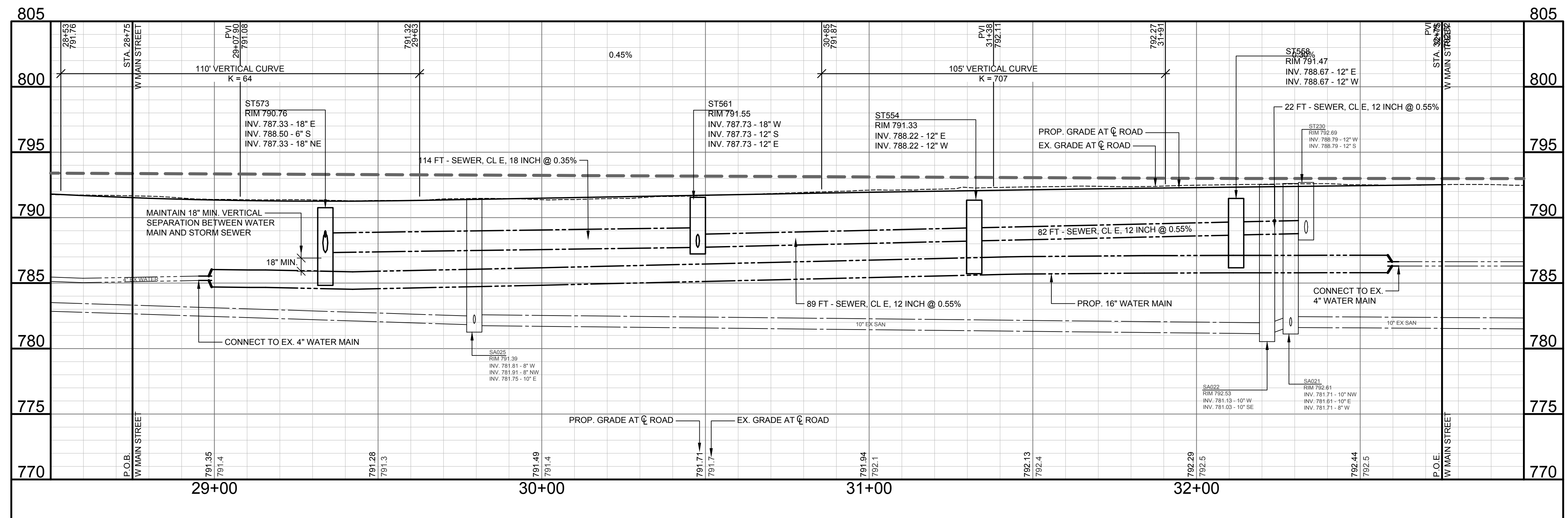
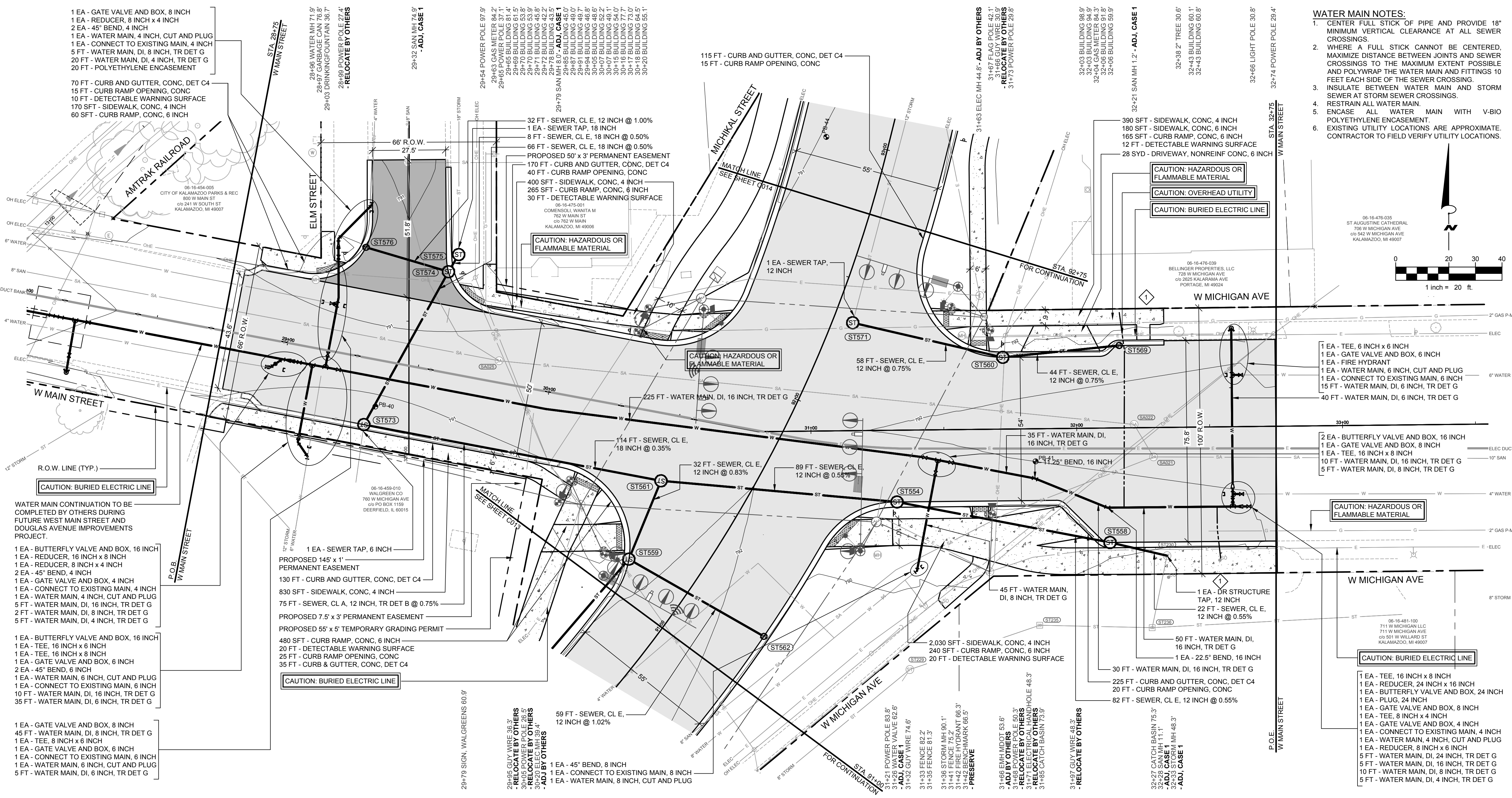
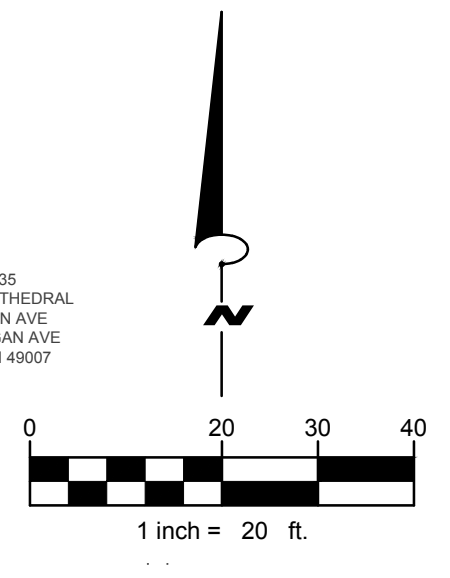
PROJECT NAME:
STREETS FOR ALL: MICHIGAL IMPROVEMENTS

CITY OF KALAMAZOO
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

ITEM	QTY.
Embankment, CIP	350 Cyd
Subbase, CIP	1,350 Cyd
Aggregate Base, 8 inch, Modified	3,750 Syd
Sewer, CI, E, 12 inch, Tr Det B	420 Ft
Sewer, CI, E, 18 inch, Tr Det B	190 Ft
Sewer Tap, 6 inch	1 Ea
Sewer Tap, 12 inch	1 Ea
Sewer Tap, 18 inch	1 Ea
Dr Structure Cover, Adj, Case 1	5 Ea
Dr Structure Cover, Type K	9 Ea
Dr Structure, 24 inch dia	3 Ea
Dr Structure, 48 inch dia	9 Ea
Dr Structure, Tap, 12 inch	1 Ea
Dr Structure Cover, Type B, Modified	4 Ea
Dr Structure Cover, Type Q, Modified	4 Ea
HMA Approach	35 Ton
HMA, 3EML	610 Ton
HMA, 4EML	410 Ton
HMA, 5EML	305 Ton
Driveway, Nonrein Conc, 6 inch	30 Syd
Curb and Gutter, Conc, Det C4	750 Ft
Detectable Warning Surface	95 Ft
Curb Ramp Opening, Conc	115 Ft
Sidewalk, Conc, 4 inch	3,850 Sft
Sidewalk, Conc, 6 inch	180 Sft
Curb Ramp, Conc, 6 inch	1,250 Sft
Slope Restoration, Non-Freeway, Type B	800 Syd
Polyethylene Encasement	20 Ft
Water Main, DI, 4 inch, Tr Det G	30 Ft
Water Main, DI, 6 inch, Tr Det G	95 Ft
Water Main, DI, 8 inch, Tr Det G	115 Ft
Water Main, DI, 16 inch, Tr Det G	370 Ft
Water Main, DI, 24 inch, Tr Det G	5 Ft
Copper Water Service Pipe, 1 1/4 inch	100 Ft
Gate Valve and Box, 4 inch	2 Ea
Gate Valve and Box, 6 inch	3 Ea
Gate Valve and Box, 8 inch	4 Ea
Butterfly Valve and Box, 16 inch	4 Ea
Butterfly Valve and Box, 24 inch	1 Ea
Fire Hydrant	1 Ea
Connect to Existing Main, 4 inch	3 Ea
Connect to Existing Main, 6 inch	3 Ea
Connect to Existing Main, 8 inch	1 Ea
Water Main, 4 inch, Cut and Plug	3 Ea
Water Main, 6 inch, Cut and Plug	3 Ea
Water Main, 8 inch, Cut and Plug	1 Ea
Water Main Line Stop, 4 inch	6 Ea
Water Main Line Stop, 6 inch	6 Ea
Water Main Line Stop, 8 inch	2 Ea
Curb Stop, 1 1/4 inch	2 Ea
Water Service, 1 1/4 inch	2 Ea
Compact Ductile Iron Fittings	2,500 Lb

WATER MAIN NOTES:

- CENTER FULL STICK OF PIPE AND PROVIDE 18" MINIMUM VERTICAL CLEARANCE AT ALL SEWER CROSSINGS.
- WHERE A FULL STICK CANNOT BE CENTERED, MAXIMIZE DISTANCE BETWEEN JOINTS AND SEWER CROSSINGS TO THE MAXIMUM EXTENT POSSIBLE AND POLYWRAP THE WATER MAIN AND FITTINGS 10 FEET EACH SIDE OF THE SEWER CROSSING.
- INSULATE BETWEEN WATER MAIN AND STORM SEWER AT STORM SEWER CROSSINGS.
- RESTRAIN ALL WATER MAIN.
- ENCASE ALL WATER MAIN WITH V-BIO POLYETHYLENE ENCASEMENT.
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY UTILITY LOCATIONS.



REPLACE EXISTING WATER SERVICE FROM THE NEW MAIN TO THE R.O.W. PAID FOR AS WATER SERVICE, 1 1/4 INCH AND COPPER WATER SERVICE PIPE, 1 1/4 INCH. REPLACE THE CURB STOP OR METER BOX AS DIRECTED BY THE ENGINEER PAID FOR AS CURB STOP, 1 1/4 INCH OR METER BOX.

LEGEND

- INSTALL CONC BASE CSE, NONREIN, 6 INCH AND 220#/SYD HMA, 3EML (HAND PATCHING).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (BASE); 220#/SYD HMA, 4EML (LEVELING) AND 165#/SYD HMA, 5EML (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#/SYD HMA, APPROACH (LEVELING) AND 165#/SYD HMA, APPROACH (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (LEVELING) AND 220#/SYD HMA, 4EML (TOP).
- RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH; 165#/SYD HMA, APPROACH (LEVELING); AND 165#/SYD HMA, APPROACH (TOP).
- INSTALL SIDEWALK, CONC, 4 INCH; SIDEWALK, CONC, 6 INCH; CURB RAMP, CONC, 6 INCH AND DRIVEWAY, NONREIN CONC, 6 INCH AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- INSTALL DETECTABLE WARNING SURFACE AT PROPOSED SIDEWALK RAMPS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

04/10/2023 90% SUBMITTAL PAD
01/06/2023 70% SUBMITTAL PAD

REVISIONS

DATE: OCTOBER, 2023
SCALE: 1" = 20'

PLAN AND PROFILE - ALTERNATE A -
W. MAIN
STA. 28+75 (P.O.B.) TO STA. 32+75 (P.O.E.)

JOB No. 224022
C022
OF 69

QUANTITIES THIS SHEET

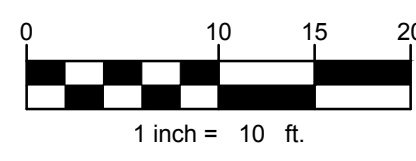
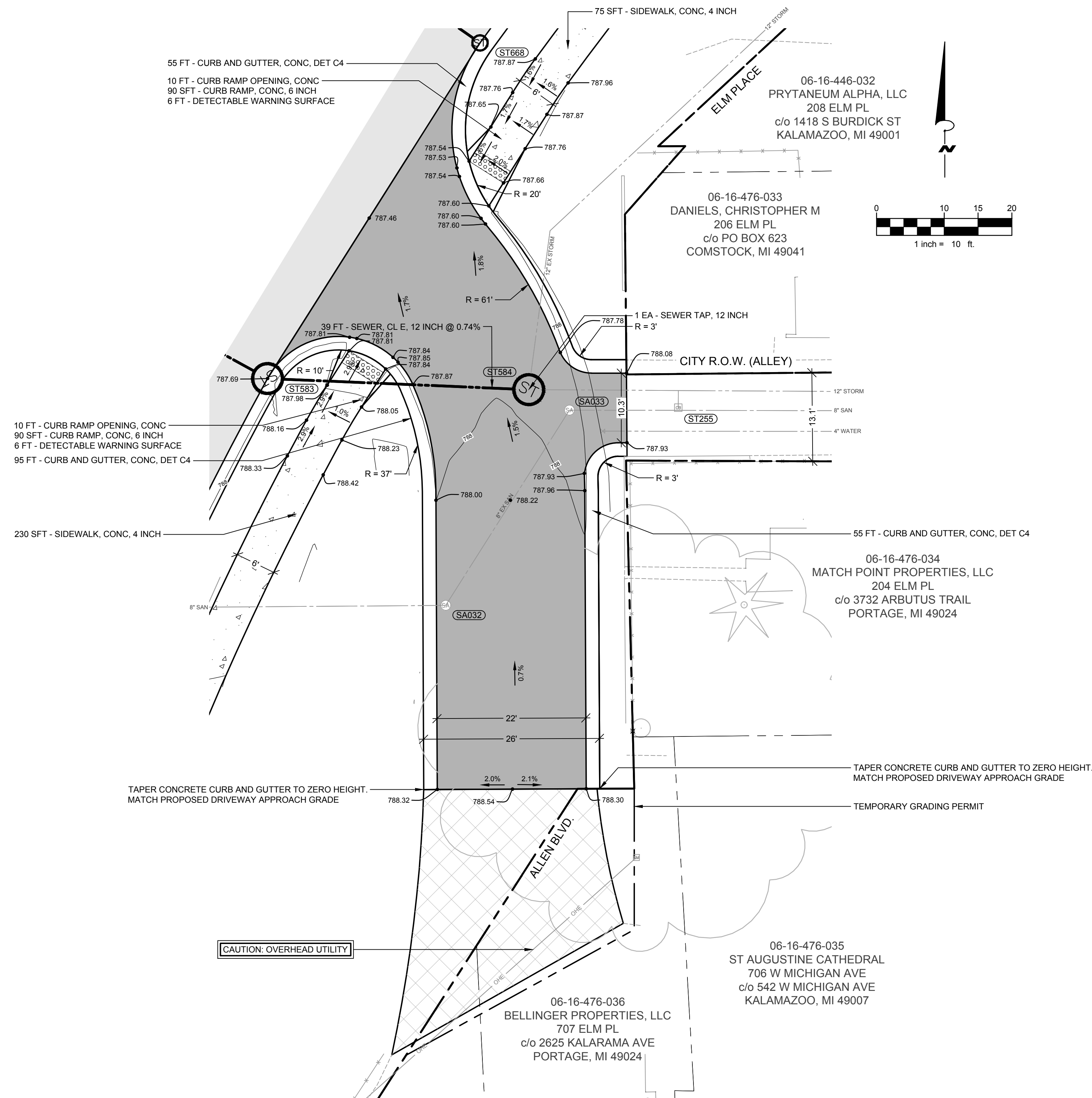
ITEM	QTY.
Subbase, CIP	105 Cyd
Aggregate Base, 8 Inch, Modified	360 Syd
Sewer, CI E, 12 inch, Tr Det B	40 Ft
Sewer Tap, 12 inch	1 Ea
Dr Structure Cover, Adj, Case 1, Modified	2 Ea
Dr Structure Cover, Type K	2 Ea
Dr Structure, 24 inch dia	1 Ea
Dr Structure, 48 inch dia	2 Ea
Dr Structure Cover, Type B, Modified	1 Ea
Dr Structure Cover, Type Q, Modified	2 Ea
HMA Approach	20 Ton
HMA, 4EML	30 Ton
HMA, 5EML	25 Ton
Curb and Gutter, Conc, Det C4	205 Ft
Detectable Warning Surface	15 Ft
Curb Ramp Opening, Conc	20 Ft
Sidewalk, Conc, 4 inch	305 Sft
Curb Ramp, Conc, 6 inch	180 Sft
Slope Restoration, Non-Freeway, Type B	450 Syd

W+
WIGHTMAN
 433 E. RANSOM ST.
 KALAMAZOO, MI. 49007
 269.327.3532
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PHILIP A. DOORLAG
 6201067363

PROJECT NAME:
**STREETS FOR ALL:
 MICHIKAL
 IMPROVEMENTS**

**CITY OF
 KALAMAZOO**
 415 E STOCKBRIDGE AVENUE
 KALAMAZOO, MI 49001



LEGEND

- INSTALL CONC BASE CSE, NONREINF. 6 INCH AND 220#/SYD HMA, 5EML (HAND PATCHING).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (BASE); 220#/SYD HMA, 4EML (LEVELING) AND 165#/SYD HMA, 5EML (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#/SYD HMA, APPROACH (LEVELING) AND 165#/SYD HMA, APPROACH (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (LEVELING) AND 220#/SYD HMA, 4EML (TOP).
- RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, 165 #/SYD HMA, APPROACH (LEVELING), AND 165#/SYD HMA, APPROACH (TOP).
- INSTALL SIDEWALK, CONC, 4 INCH; SIDEWALK, CONC, 6 INCH; CURB RAMP, CONC, 6 INCH AND DRIVEWAY, NONREINF CONC, 6 INCH AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- INSTALL DETECTABLE WARNING SURFACE AT PROPOSED SIDEWALK RAMPS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

05 12/01/2023 PAD
 ISSUED FOR BIDDING

04 10/25/2023 PAD
 90% SUBMITTAL

01 08/30/2023 PAD
 70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
 SCALE: 1" = 10'

**INTERSECTION PLAN -
 MICHIKAL AND ELM
 PLACE INTERSECTION**
 -
 BASE BID

JOB No. 224022
C023
 OF 69

QUANTITIES THIS SHEET

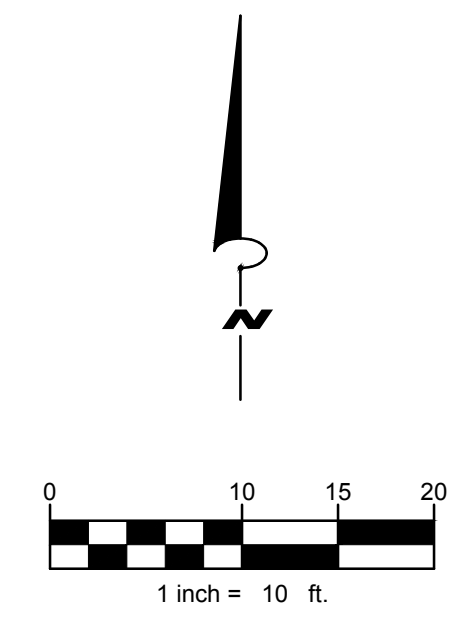
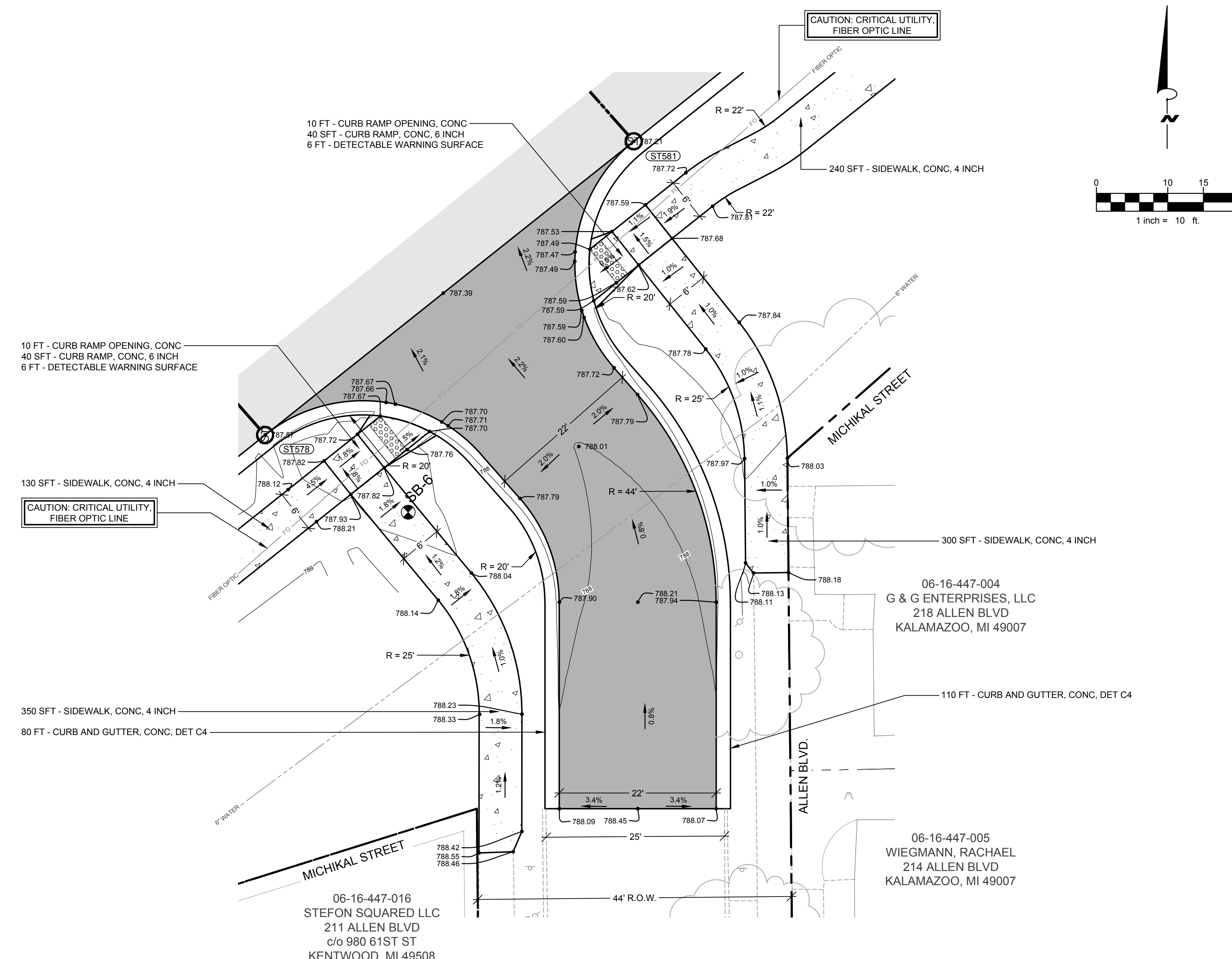
ITEM	QTY.
Subbase, CIP	100 Cyd
Aggregate Base, 8 Inch, Modified	240 Syd
Dr Structure Cover, Type K	2 Ea
Dr Structure, 24 inch dia	2 Ea
HMA, 4EML	30 Ton
HMA, 5EML	25 Ton
Curb and Gutter, Conc, Det C4	190 Ft
Detectable Warning Surface	15 Ft
Curb Ramp Opening, Conc	20 Ft
Sidewalk, Conc, 4 inch	1,020 Sft
Curb Ramp, Conc, 6 inch	80 Sft
Slope Restoration, Non-Freeway, Type B	400 Syd

W+
WIGHTMAN
433 E. RANSOM ST.
KALAMAZOO, MI. 49007
269.327.3532
www.gowightman.com








PHILIP A. DOORLAG
6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



LEGEND

-  INSTALL CONC BASE CSE, NONREINF, 6 INCH AND 220#SYD HMA, 5EML (HAND PATCHING).
-  INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#SYD HMA, 3EML (BASE); 220#SYD HMA, 4EML (LEVELING) AND 165#SYD HMA, 5EML (TOP).
-  INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#SYD HMA, APPROACH (LEVELING) AND 165#SYD HMA, APPROACH (TOP).
-  INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#SYD HMA, 3EML (LEVELING) AND 220#SYD HMA, 4EML (TOP).
-  RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, 165 #SYD HMA, APPROACH (LEVELING), AND 165#SYD HMA, APPROACH (TOP).
-  INSTALL SIDEWALK, CONC, 4 INCH; SIDEWALK, CONC, 6 INCH; CURB RAMP, CONC, 6 INCH AND DRIVEWAY, NONREINF CONC, 6 INCH AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
-  INSTALL DETECTABLE WARNING SURFACE AT PROPOSED SIDEWALK RAMPS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 10'

**INTERSECTION PLAN -
MICHIKAL AND ALLEN
BLVD INTERSECTION -
BASE BID**

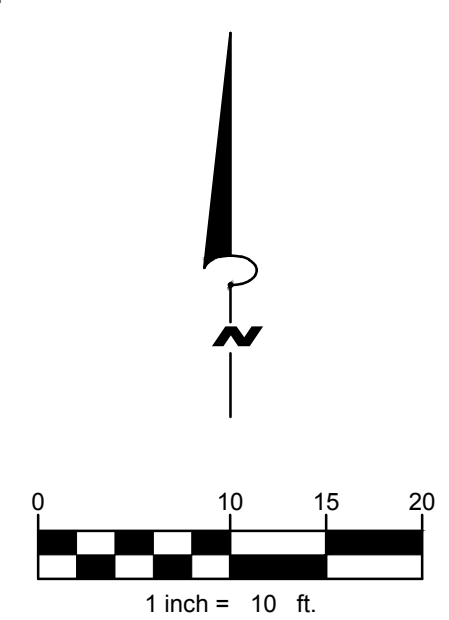
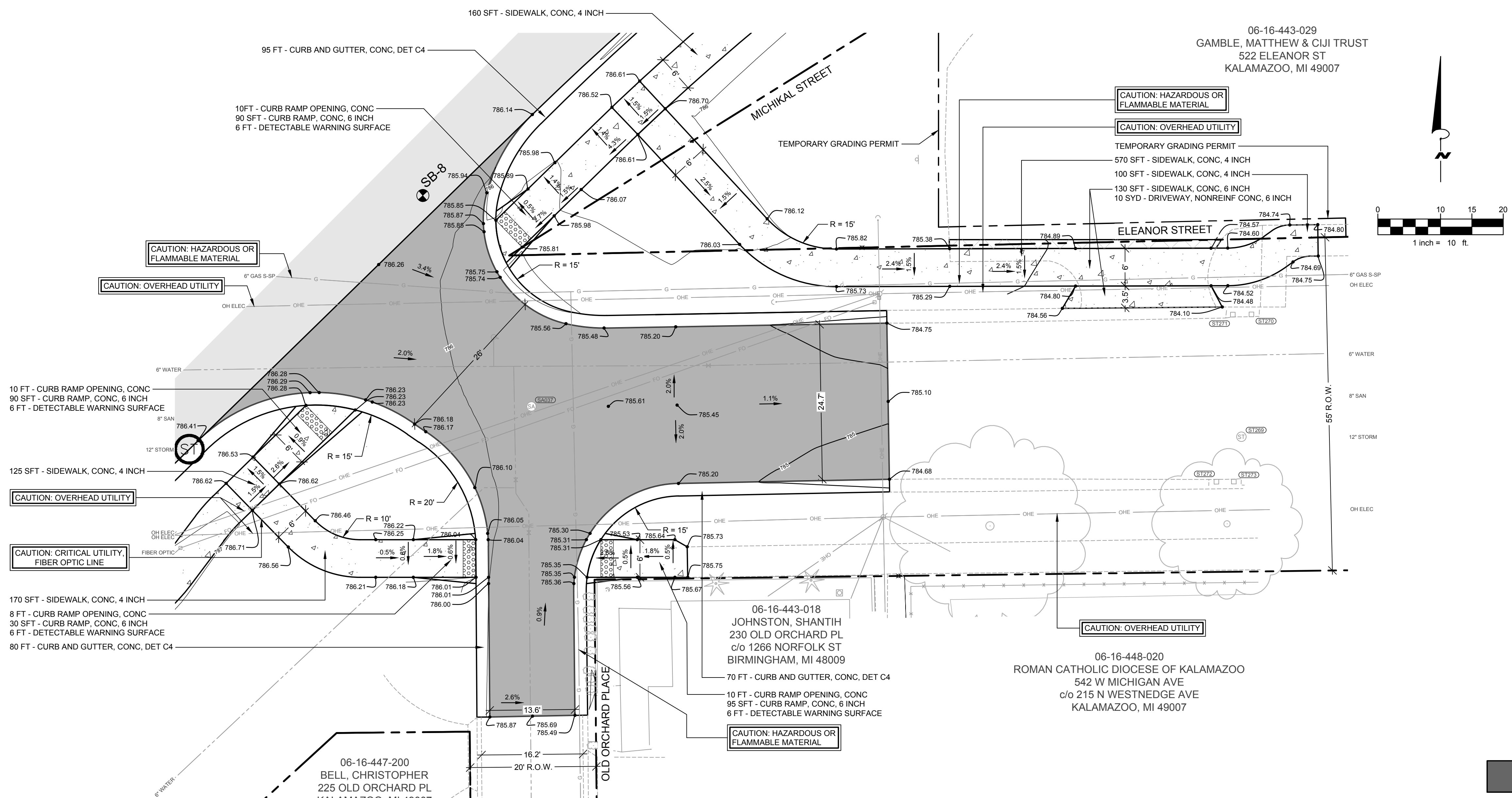
JOB No. 224022
C024
OF 69

QUANTITIES THIS SHEET

ITEM	QTY.
Subbase, CIP	150 Cyd
Aggregate Base, 8 Inch, Modified	350 Syd
Dr Structure Cover, Adj, Case 1, Modified	1 Ea
Dr Structure Cover, Type Q, Modified	1 Ea
HMA, 4EML	40 Ton
HMA, 5EML	30 Ton
Driveway, Nonreinf Conc, 6 inch	10 Syd
Curb and Gutter, Conc, Det C4	250 Ft
Detectable Warning Surface	25 Ft
Curb Ramp Opening, Conc	40 Ft
Sidewalk, Conc, 4 inch	1,130 Sft
Sidewalk, Conc, 6 inch	130 Sft
Curb Ramp, Conc, 6 inch	305 Sft
Slope Restoration, Non-Freeway, Type B	500 Syd

W+
WIGHTMAN
433 E. RANSOM ST.
KALAMAZOO, MI. 49007
269.327.3532
www.wightman.com

PHILIP A. DOORLAG
6201067363
PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**
CITY OF
KALAMAZOO
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



06-16-447-200
BELL, CHRISTOPHER
225 OLD ORCHARD PL
KALAMAZOO, MI 49007

06-16-443-018
JOHNSTON, SHANTIH
230 OLD ORCHARD PL
c/o 1266 NORFOLK ST
BIRMINGHAM, MI 48009

06-16-448-020
ROMAN CATHOLIC DIOCESE OF KALAMAZOO
542 W MICHIGAN AVE
c/o 215 N WESTNEDGE AVE
KALAMAZOO, MI 49007

- LEGEND**
- INSTALL CONC BASE CSE, NONREINF, 6 INCH AND 220#/SYD HMA, 5EML (HAND PATCHING).
 - INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (BASE); 220#/SYD HMA, 4EML (LEVELING) AND 165#/SYD HMA, 5EML (TOP).
 - INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#/SYD HMA, APPROACH (LEVELING) AND 165#/SYD HMA, APPROACH (TOP).
 - INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (LEVELING) AND 220#/SYD HMA, 4EML (TOP).
 - RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, 165 #/SYD HMA, APPROACH (LEVELING), AND 165#/SYD HMA, APPROACH (TOP).
 - INSTALL SIDEWALK, CONC, 4 INCH; SIDEWALK, CONC, 6 INCH; CURB RAMP, CONC, 6 INCH AND DRIVEWAY, NONREINF CONC, 6 INCH AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - INSTALL DETECTABLE WARNING SURFACE AT PROPOSED SIDEWALK RAMPS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

05/12/01/2023 PAD
ISSUED FOR BIDDING

04/10/25/2023 PAD
90% SUBMITTAL

01/08/30/2023 PAD
70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 10'

INTERSECTION PLAN -
MICHIKAL AND
ELEANOR STREET
INTERSECTION -
BASE BID

JOB No. 224022
C025
OF 69

QUANTITIES THIS SHEET

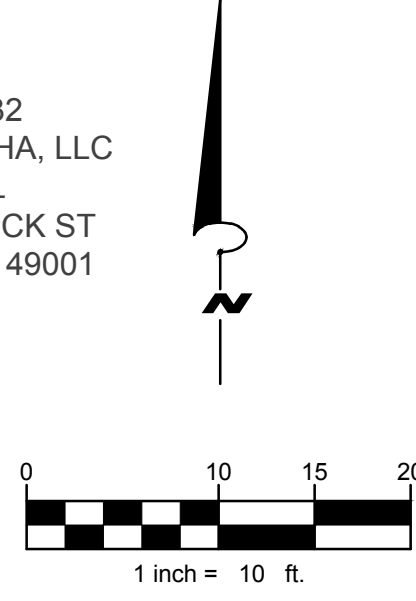
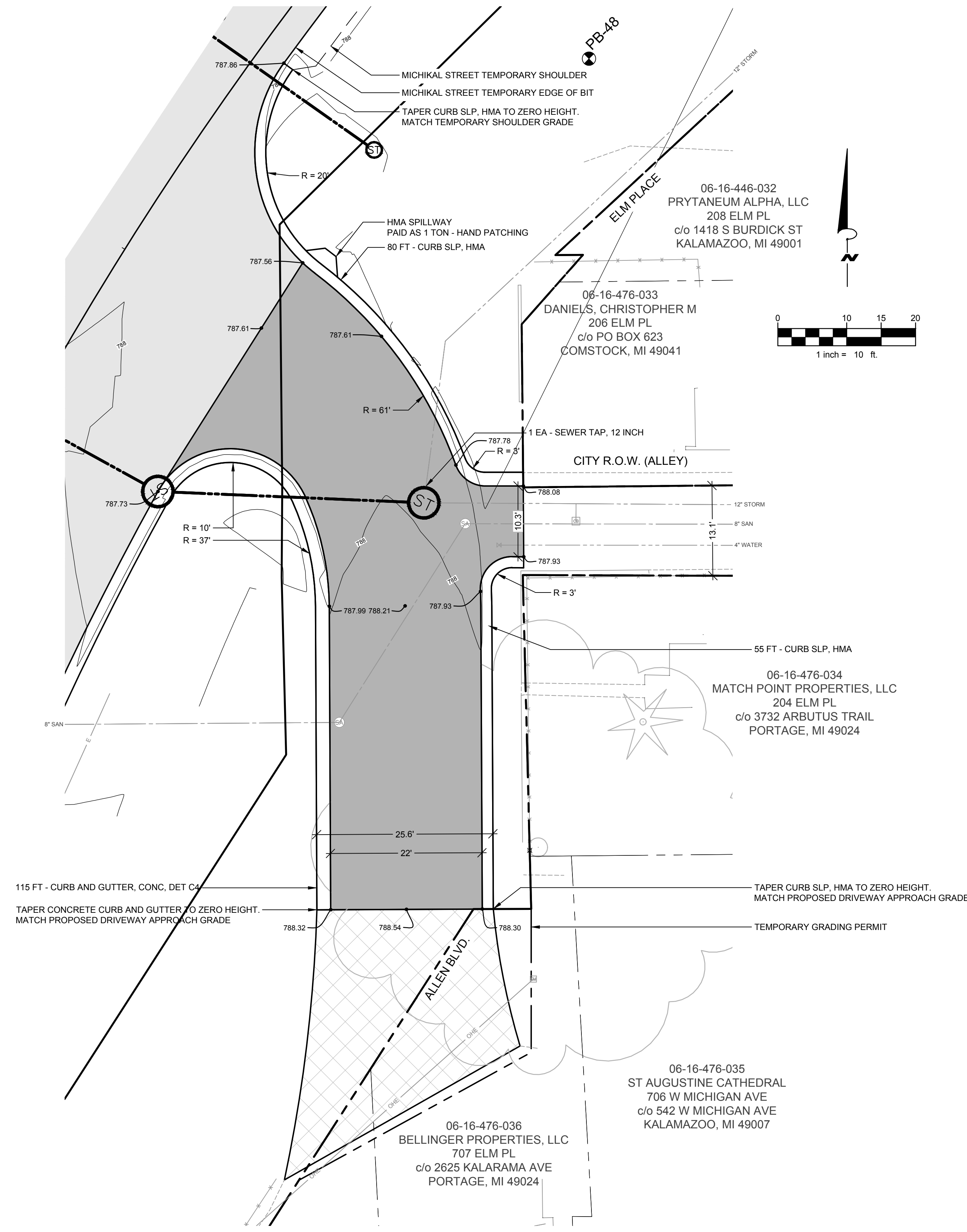
ITEM	QTY.
Subbase, CIP	105 Cyd
Aggregate Base, 8 Inch, Modified	360 Syd
Sewer, CI E, 12 inch, Tr Det B	40 Ft
Sewer Tap, 12 inch	1 Ea
Dr Structure Cover, Adj, Case 1, Modified	2 Ea
Dr Structure Cover, Type G	1 Ea
Dr Structure Cover, Type K	1 Ea
Dr Structure, 24 inch dia	1 Ea
Dr Structure, 48 inch dia	2 Ea
Dr Structure Cover, Type B, Modified	1 Ea
Dr Structure Cover, Type Q, Modified	2 Ea
Hand Patching	1 Ton
HMA Approach	20 Ton
HMA, 4EML	30 Ton
HMA, 5EML	25 Ton
Curb and Gutter, Conc, Det C4	115 Ft
Curb Slp, HMA	135 Ft
Slope Restoration, Non-Freeway, Type B	700 Syd

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6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



LEGEND

- INSTALL CONC CSE, NONREINF, 6 INCH AND 220#/SYD HMA, 5EML (HAND PATCHING).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (BASE); 220#/SYD HMA, 4EML (LEVELING) AND 165#/SYD HMA, 5EML (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#/SYD HMA, APPROACH (LEVELING) AND 165#/SYD HMA, APPROACH (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (LEVELING) AND 220#/SYD HMA, 4EML (TOP).
- RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, 165 #/SYD HMA, APPROACH (LEVELING), AND 165#/SYD HMA, APPROACH (TOP).

05 12/01/2023 PAD
ISSUED FOR BIDDING

04 10/25/2023 PAD
90% SUBMITTAL

01 08/30/2023 PAD
70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 10'

**INTERSECTION PLAN -
MICHIKAL AND ELM
PLACE INTERSECTION**

ALTERNATE A

JOB No. 224022
C026
OF 69

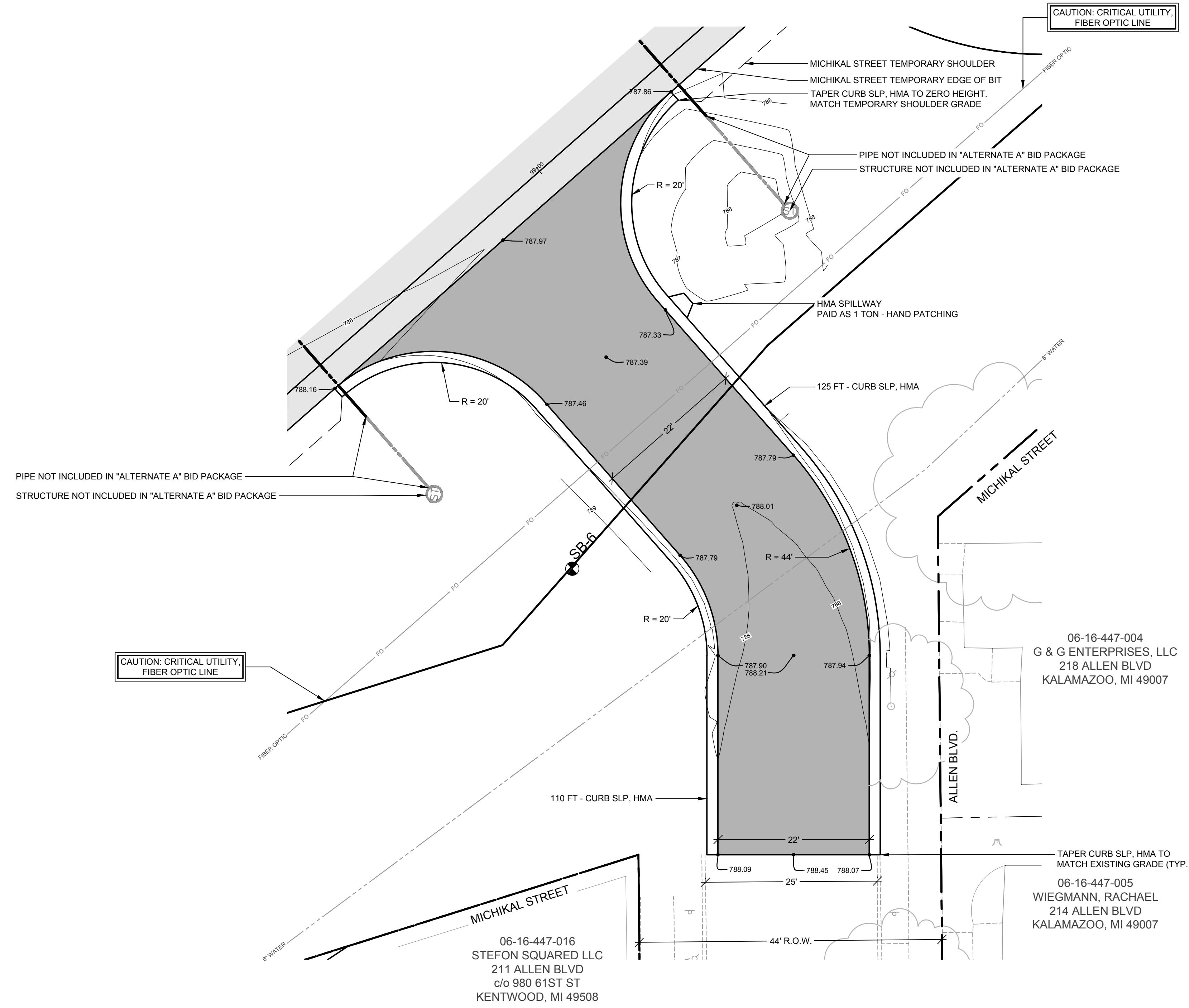
QUANTITIES THIS SHEET	
ITEM	QTY.
Subbase, CIP	120 Cyd
Aggregate Base, 8 Inch, Modified	340 Syd
Hand Patching	1 Ton
HMA, 4EML	40 Ton
HMA, 5EML	30 Ton
Curb Slp, HMA	235 Ft
Slope Restoration, Non-Freeway, Type B	850 Syd

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PHILIP A. DOORLAG
6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



LEGEND

	INSTALL CONC BASE CSE, NONREINF, 6 INCH AND 220#SYD HMA, 5EML (HAND PATCHING).
	INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#SYD HMA, 3EML (BASE); 220#SYD HMA, 4EML (LEVELING) AND 165#SYD HMA, 5EML (TOP).
	INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#SYD HMA, APPROACH (LEVELING) AND 165#SYD HMA, APPROACH (TOP).
	INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#SYD HMA, 3EML (LEVELING) AND 220#SYD HMA, 4EML (TOP).
	RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, 165 #SYD HMA, APPROACH (LEVELING), AND 165#SYD HMA, APPROACH (TOP).

05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 10'

**INTERSECTION PLAN -
MICHIKAL AND ALLEN
BLVD INTERSECTION -
ALTERNATE A**

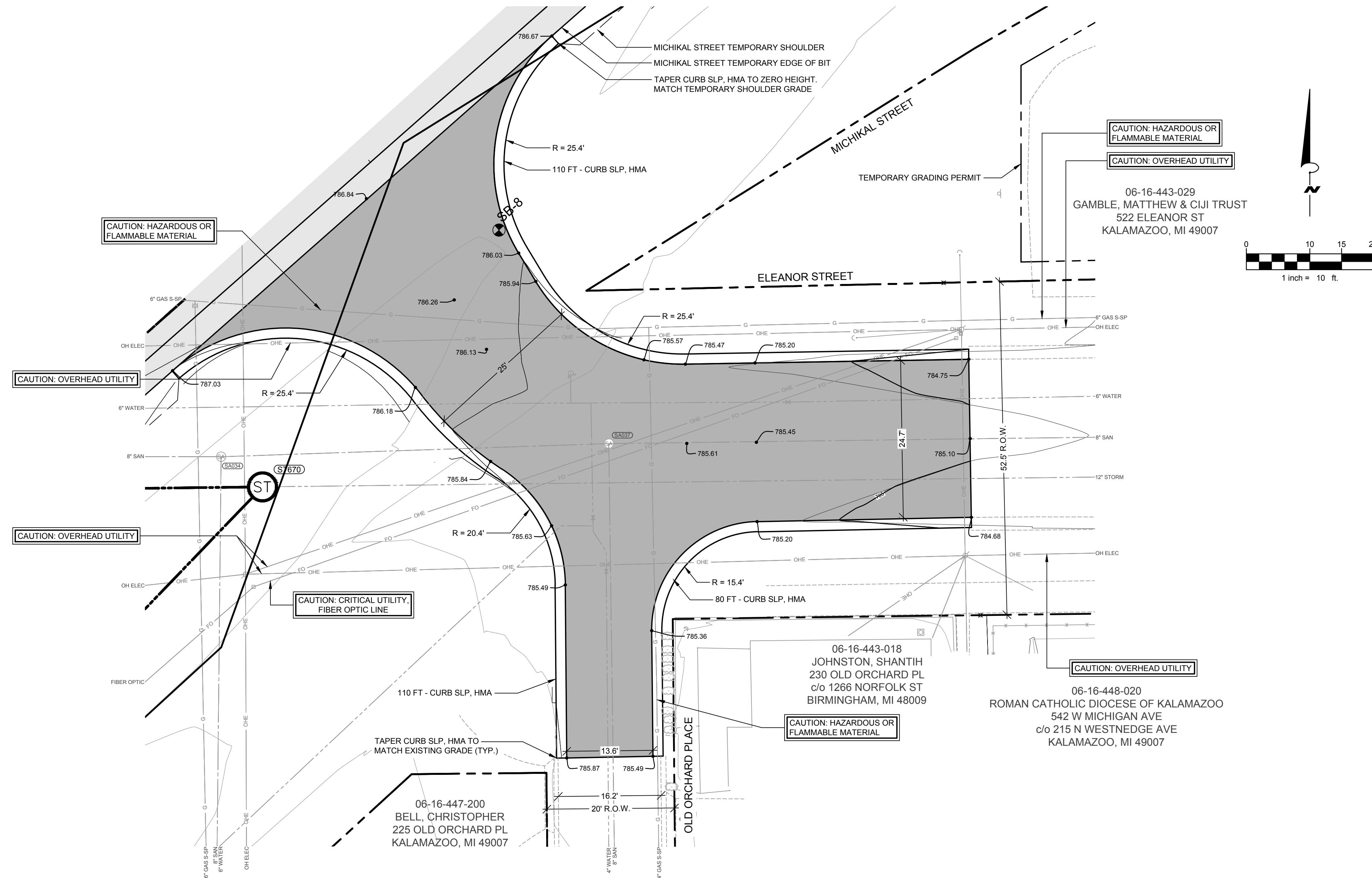
JOB No. 224022
C027
OF 69

QUANTITIES THIS SHEET	
ITEM	QTY.
Subbase, CIP	165 Cyd
Aggregate Base, 8 Inch, Modified	495 Syd
Dr Structure Cover, Adj, Case 1, Modified	1 Ea
Dr Structure Cover, Type Q, Modified	1 Ea
HMA, 4EML	60 Ton
HMA, 5EML	45 Ton
Curb Slp, HMA	300 Ft
Slope Restoration, Non-Freeway, Type B	750 Syd

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LEGEND

- INSTALL CONC BASE CSE, NONREINF, 6 INCH AND 220#/SYD HMA, 5EML (HAND PATCHING).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (BASE); 220#/SYD HMA, 4EML (LEVELING) AND 165#/SYD HMA, 5EML (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 220#/SYD HMA, APPROACH (LEVELING) AND 165#/SYD HMA, APPROACH (TOP).
- INSTALL SUBBASE, CIP (12" MIN.); AGGREGATE BASE, 8 INCH, MODIFIED; 330#/SYD HMA, 3EML (LEVELING) AND 220#/SYD HMA, 4EML (TOP).
- RESURFACE DRIVEWAYS WITH AGGREGATE BASE, 8 INCH, 165 #/SYD HMA, APPROACH (LEVELING), AND 165#/SYD HMA, APPROACH (TOP).

PHILIP A. DOORLAG
6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

05 12/01/2023 PAD
ISSUED FOR BIDDING

04 10/25/2023 PAD
90% SUBMITTAL

01 06/30/2023 PAD
70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 10'

**INTERSECTION PLAN -
MICHIKAL AND
ELEANOR STREET
INTERSECTION -
ALTERNATE A**

JOB No. 224022
C028
OF 69



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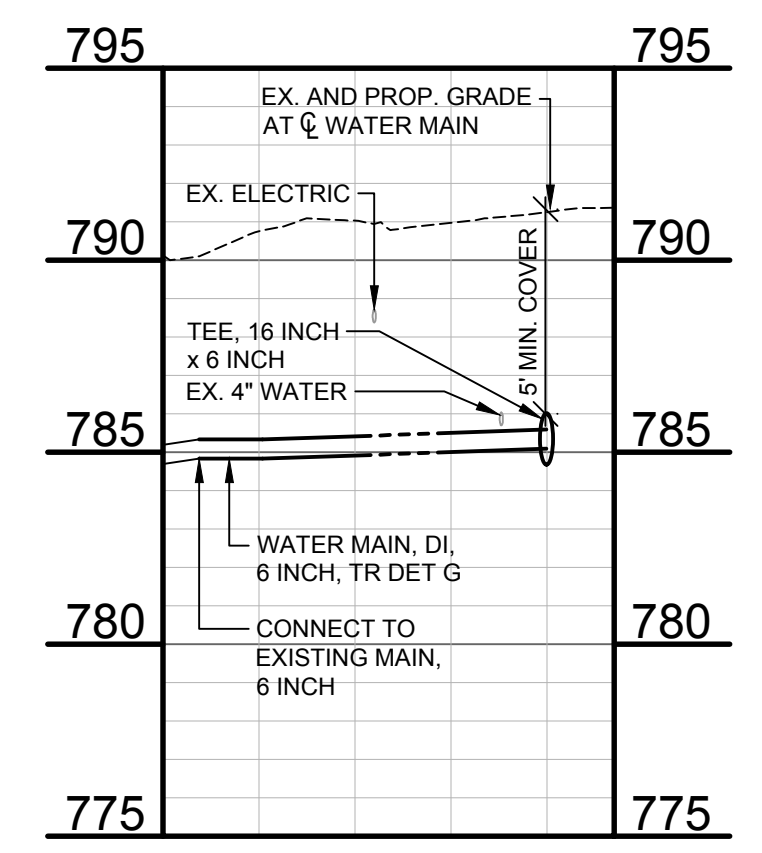
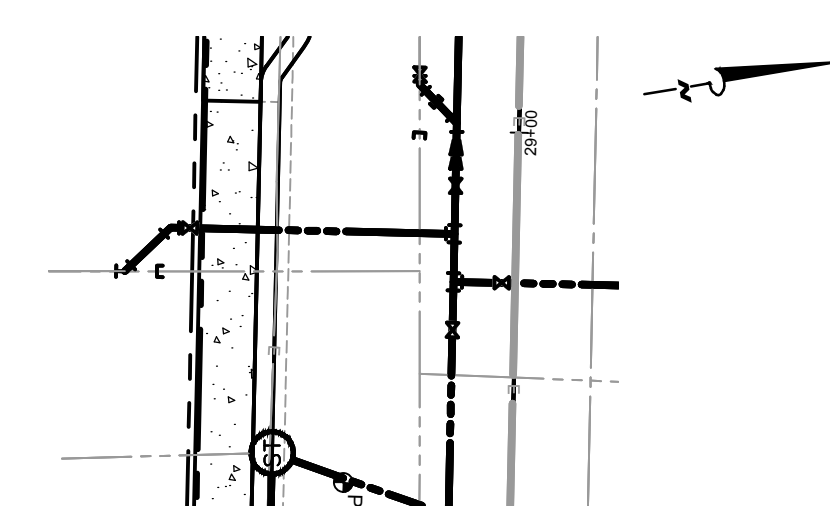
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PHILIP A. DOORLAG
6201067363

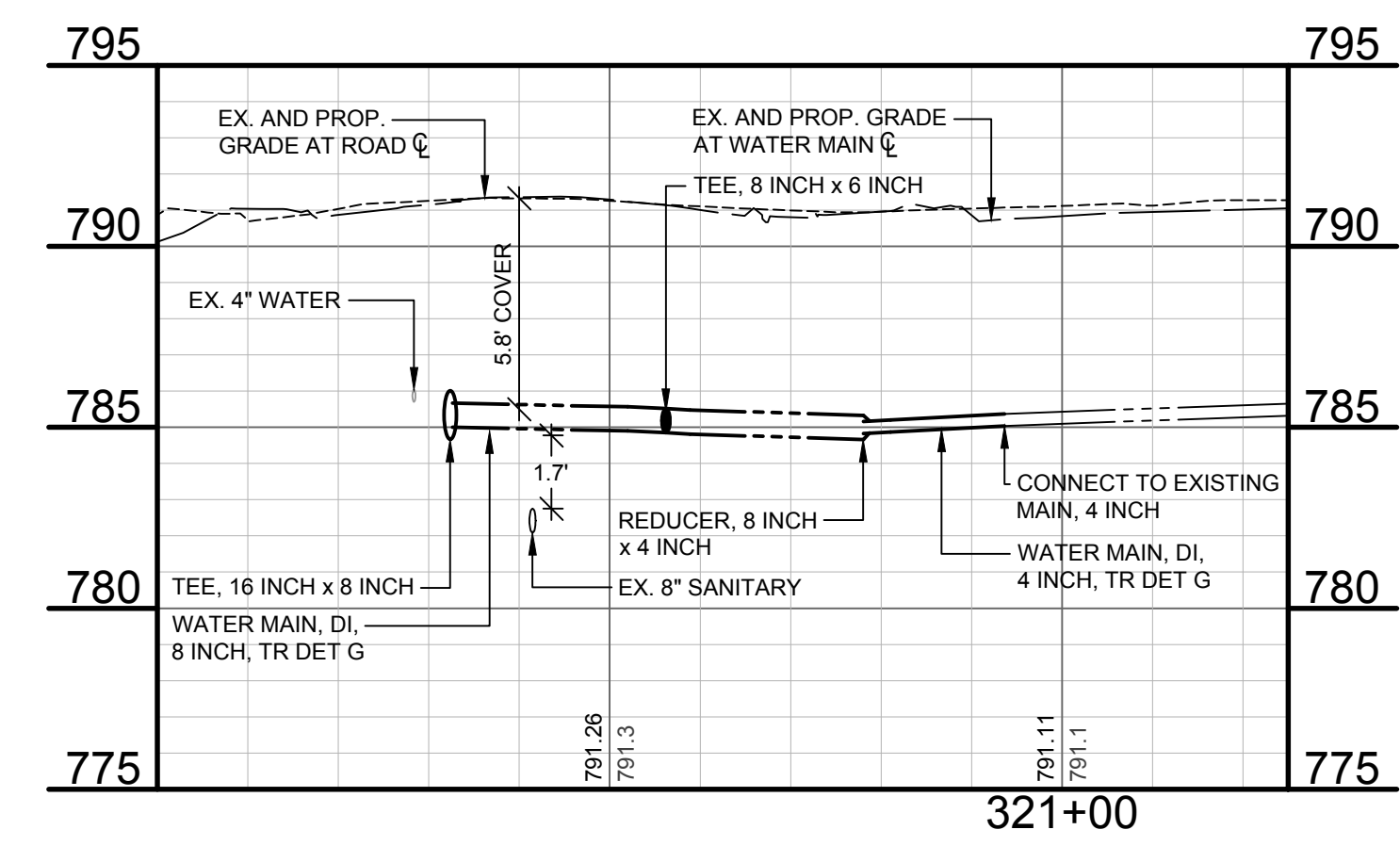
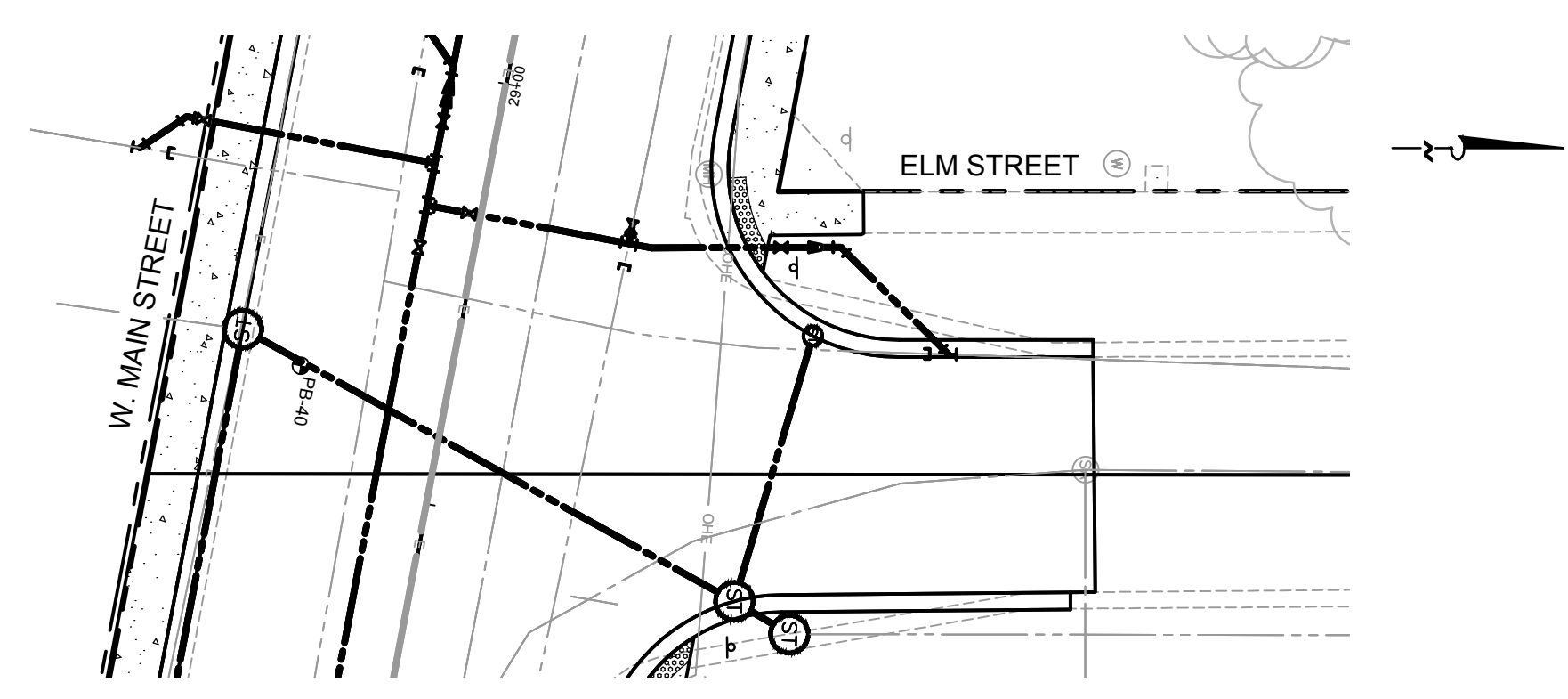
PROJECT NAME:

**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

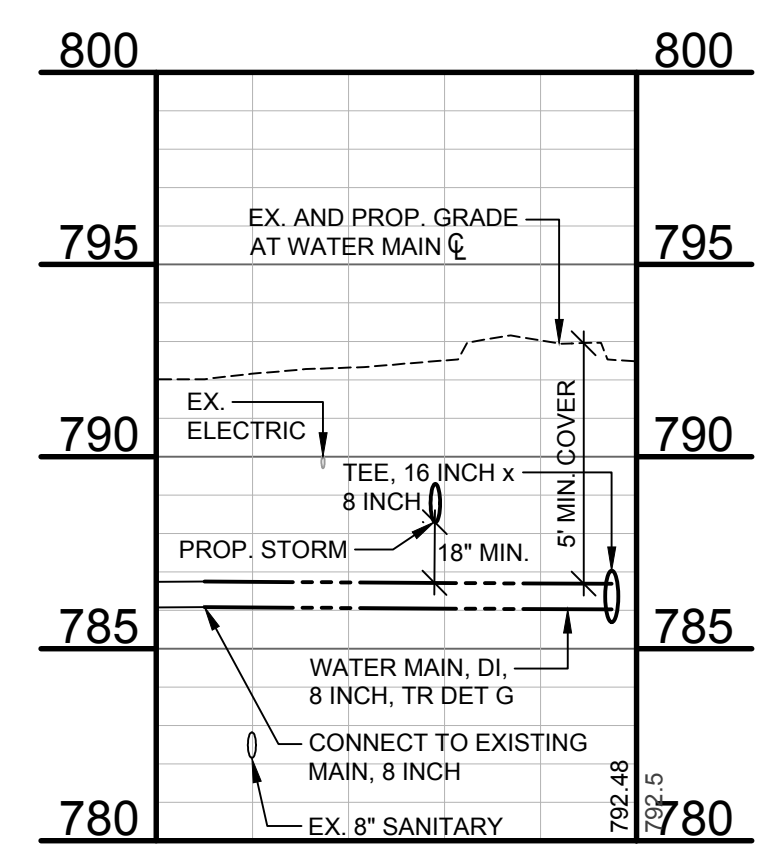
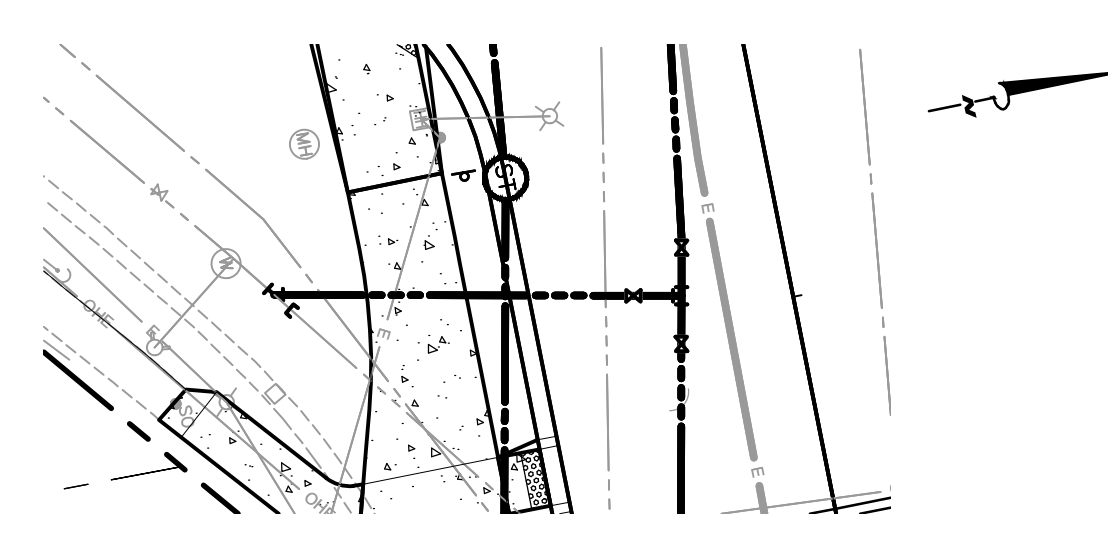
**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



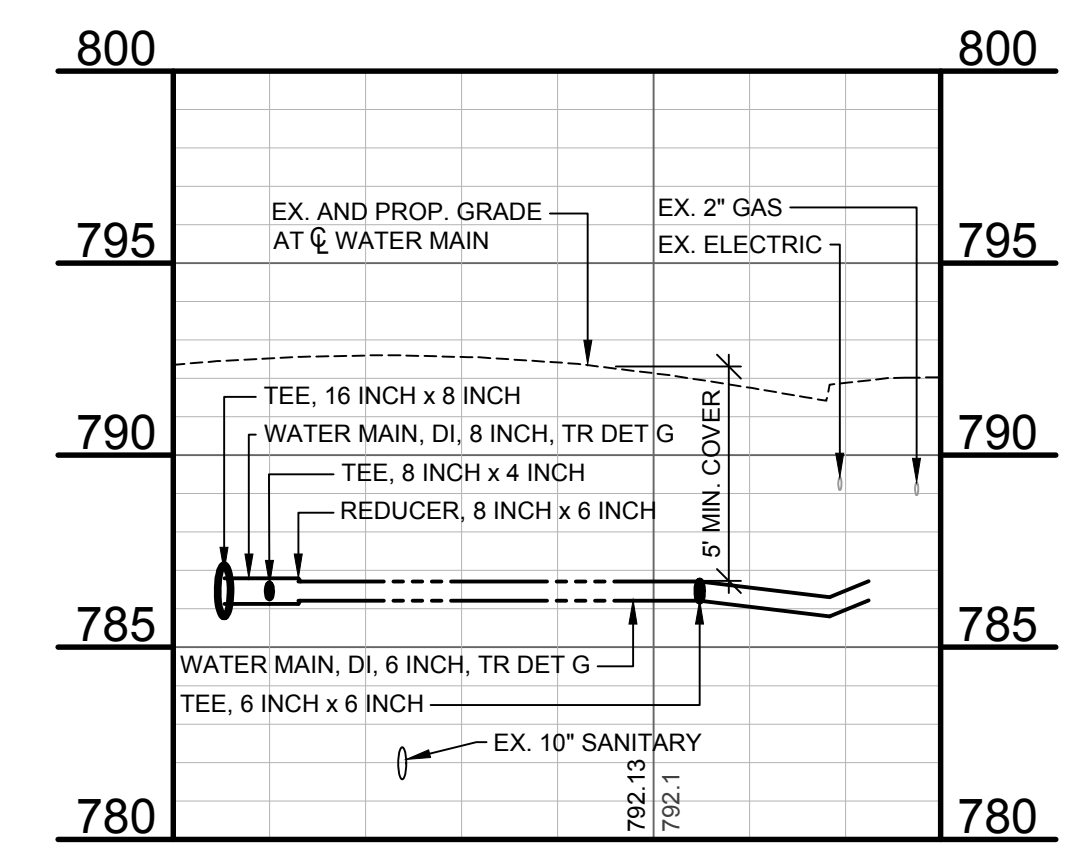
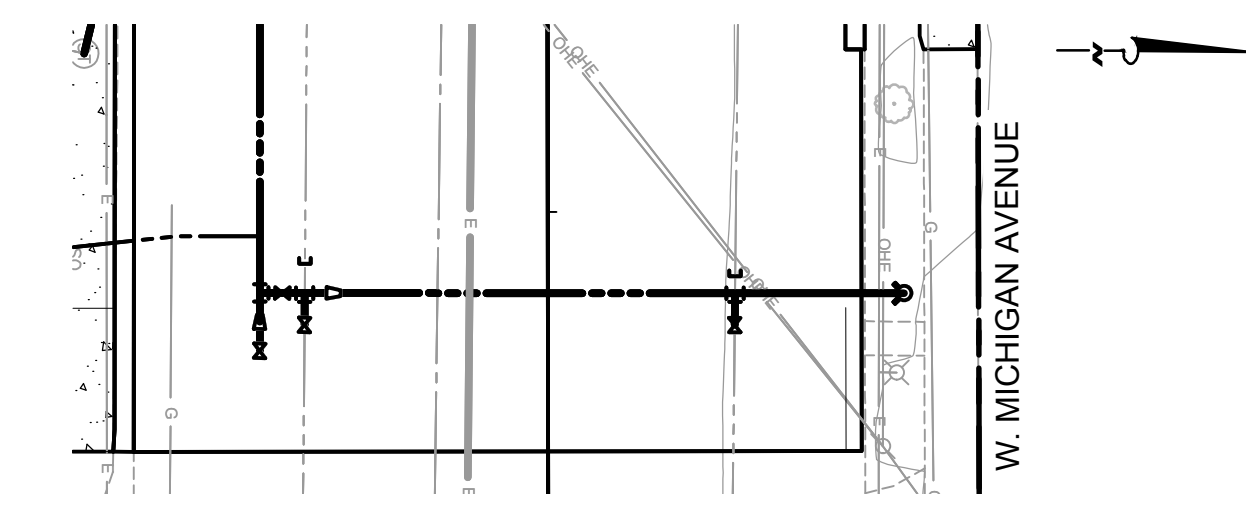
W MAIN STREET WATER MAIN CONNECTION AT WALGREENS
W MAIN STREET STA. 29+10 (APPROX.)



ELM STREET WATER MAIN CONNECTION
W MAIN STREET STA. 29+15 (APPROX.)



**W MICHIGAN AVENUE / W MAIN STREET / MICHIKAL STREET INTERSECTION
WATER MAIN CONNECTION**
W MICHIGAN AVENUE STA. 31+45 (APPROX.)



W MICHIGAN AVENUE WATER MAIN CONNECTION
W MICHIGAN AVENUE STA. 32+60 (APPROX.)

- WATER MAIN NOTES:**
1. CENTER FULL STICK OF PIPE AND PROVIDE 18" MINIMUM VERTICAL CLEARANCE AT ALL SEWER CROSSINGS.
 2. WHERE A FULL STICK CANNOT BE CENTERED, MAXIMIZE DISTANCE BETWEEN JOINTS AND SEWER CROSSINGS TO THE MAXIMUM EXTENT POSSIBLE AND POLYWRAP THE WATER MAIN AND FITTINGS 10 FEET EACH SIDE OF THE SEWER CROSSING.
 3. INSULATE BETWEEN WATER MAIN AND STORM SEWER AT STORM SEWER CROSSINGS.
 4. RESTRAIN ALL WATER MAIN.
 5. ENCASE ALL WATER MAIN WITH V-BIO POLYETHYLENE ENCASEMENT.
 6. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY UTILITY LOCATIONS.

05/12/2023	PAD
ISSUED FOR BIDDING	
04/10/25/2023	PAD
90% SUBMITTAL	
03/07/24/2023	PAD
RE-ISSUED FOR EGLE PART 399 PERMIT	
02/07/03/2023	PAD
ISSUED FOR EGLE PART 399 PERMIT	
01/06/30/2023	PAD
70% SUBMITTAL	

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 20'H, 5'V

**WATER MAIN AND
HYDRANT
CONNECTION DETAILS**



WIGHTMAN

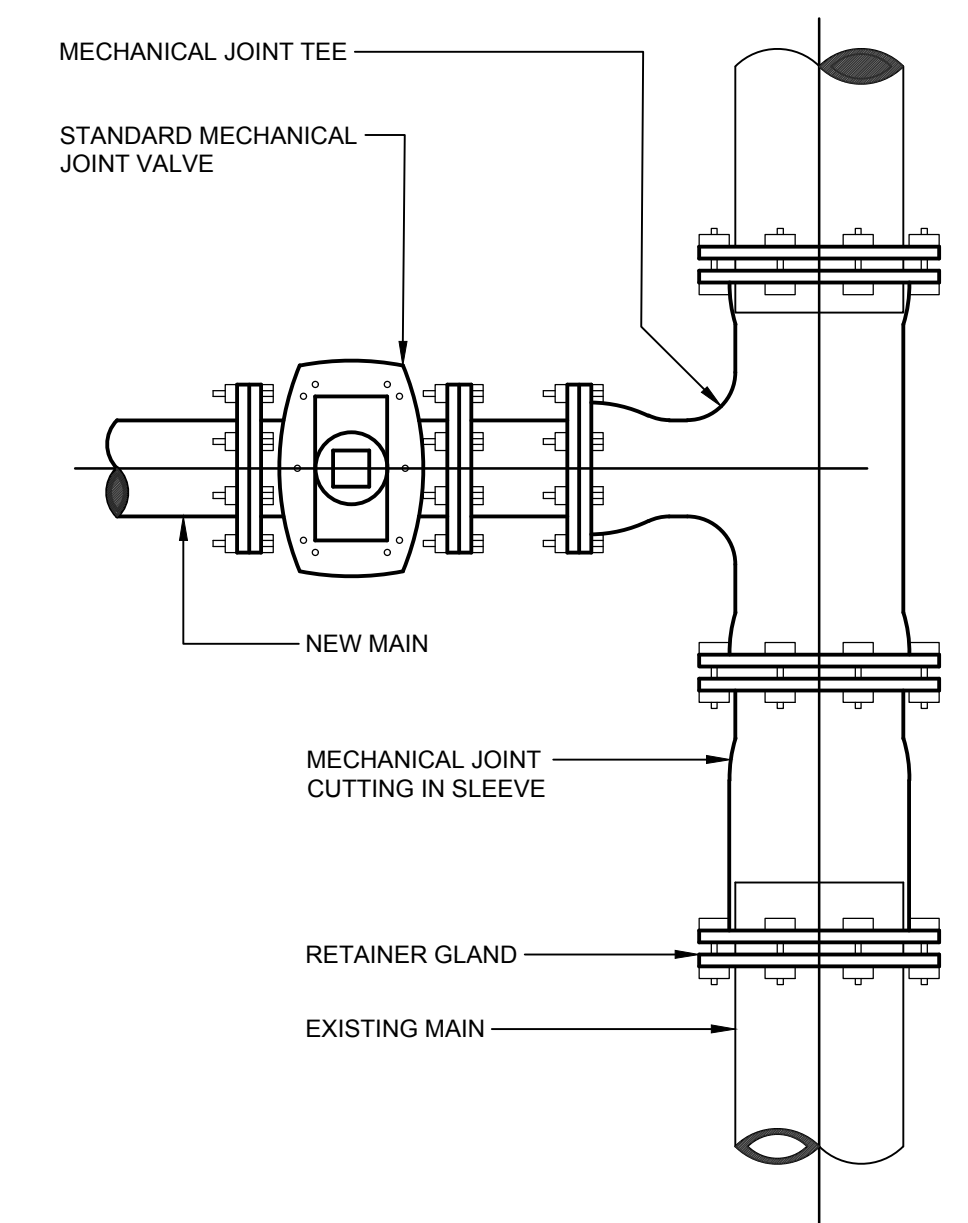
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269.327.3532

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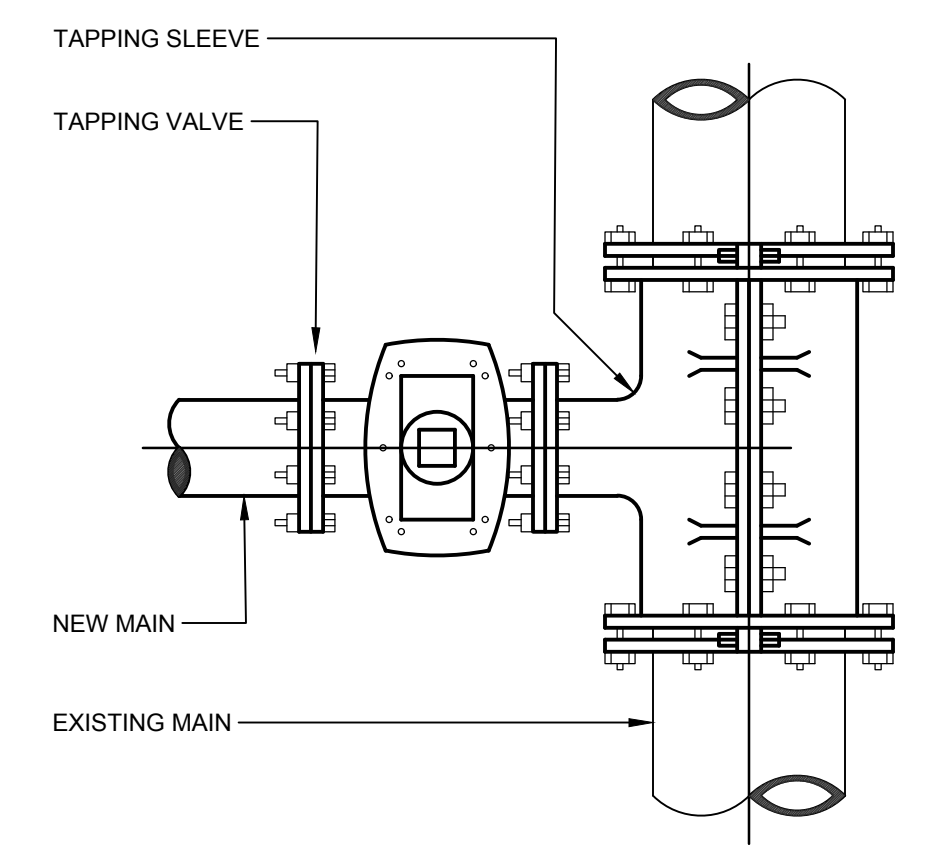
PHILIP A. DOORLAG
6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

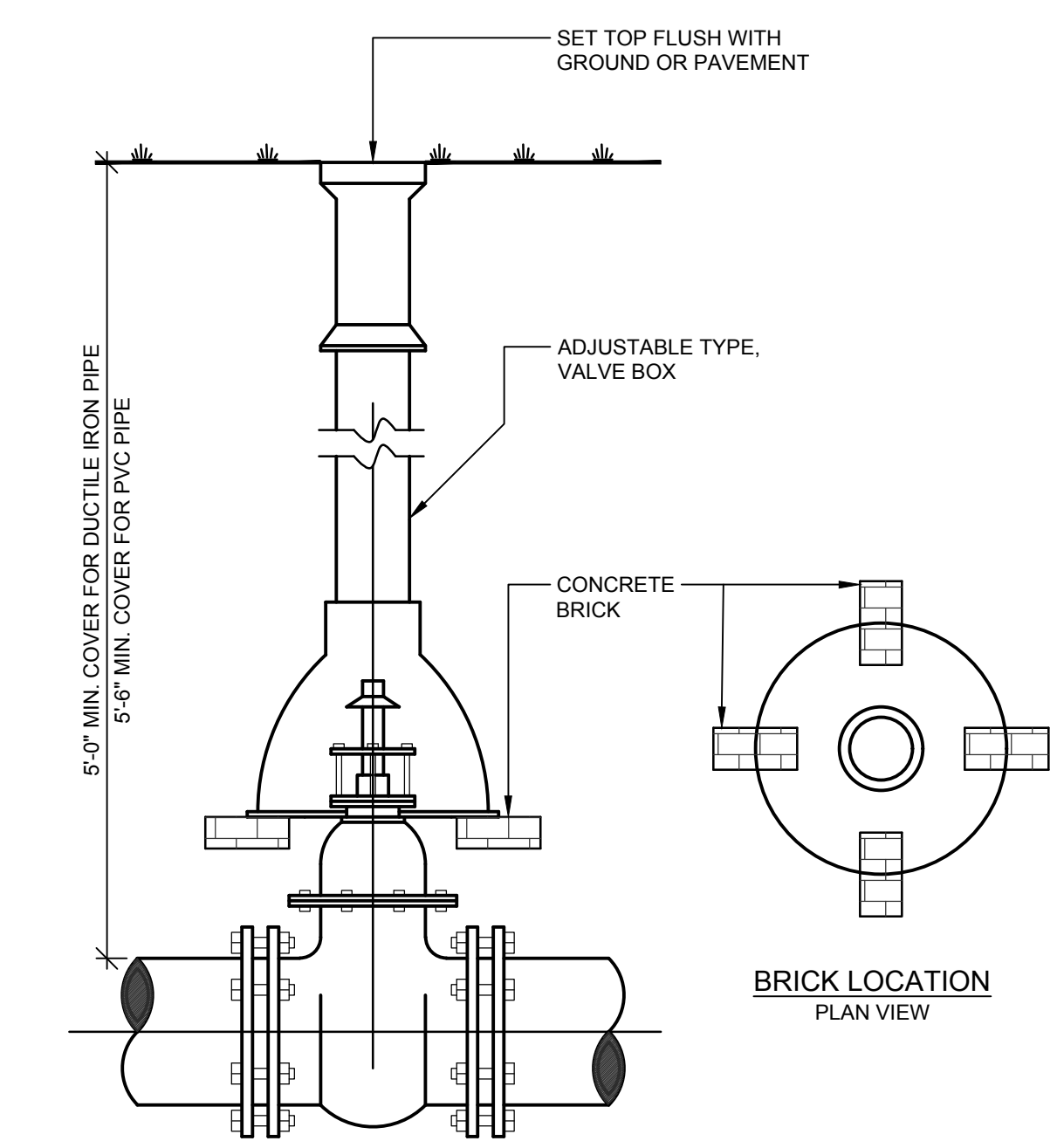
**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



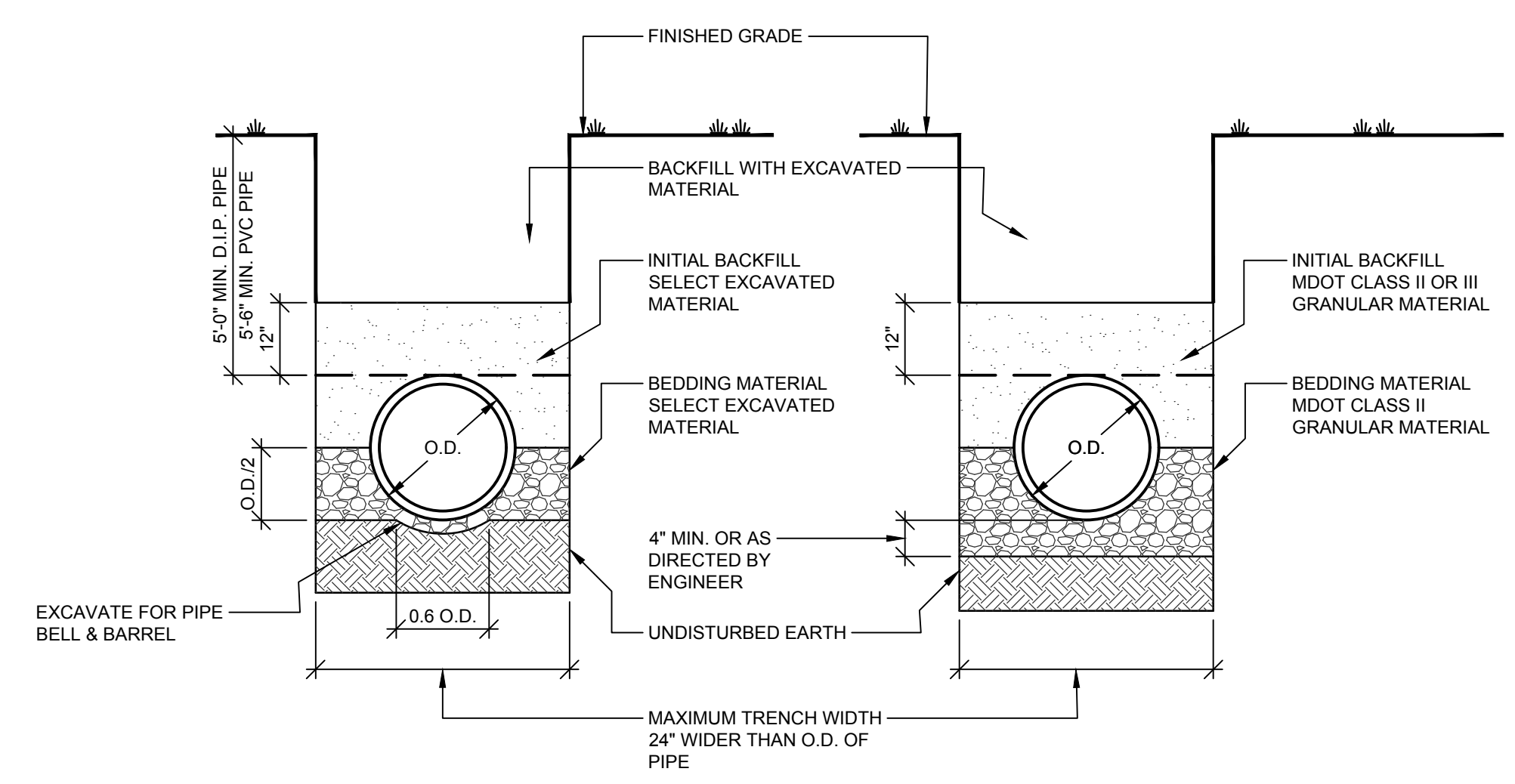
DRY TAP METHOD
CONNECTING NEW MAIN TO EXISTING MAIN



WET TAP METHOD
(UNDER PRESSURE)
CONNECTING NEW MAIN TO EXISTING MAIN

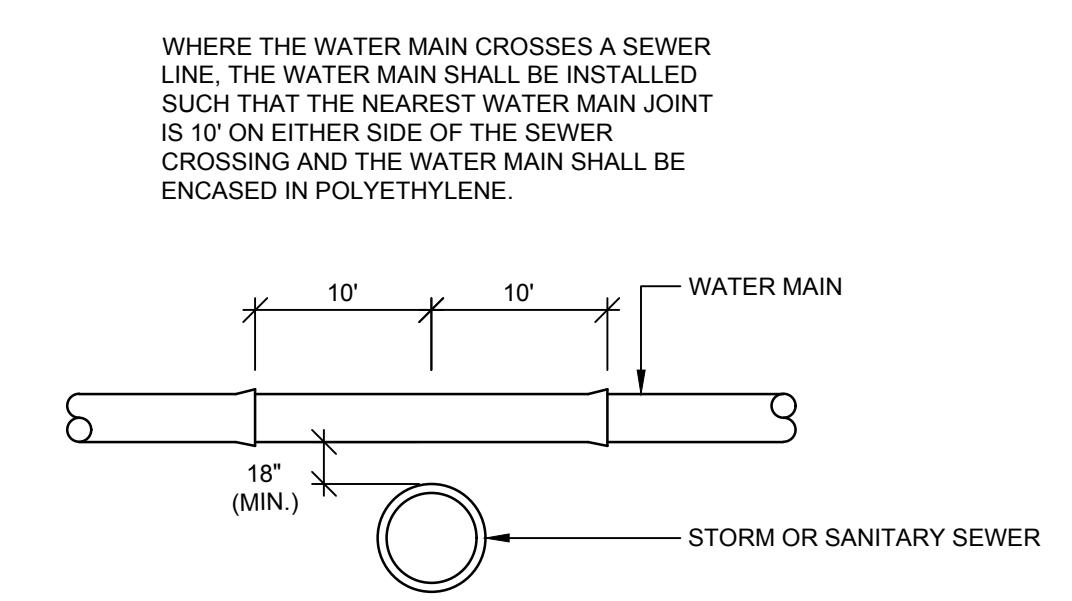


TYPICAL GATE VALVE & VALVE BOX

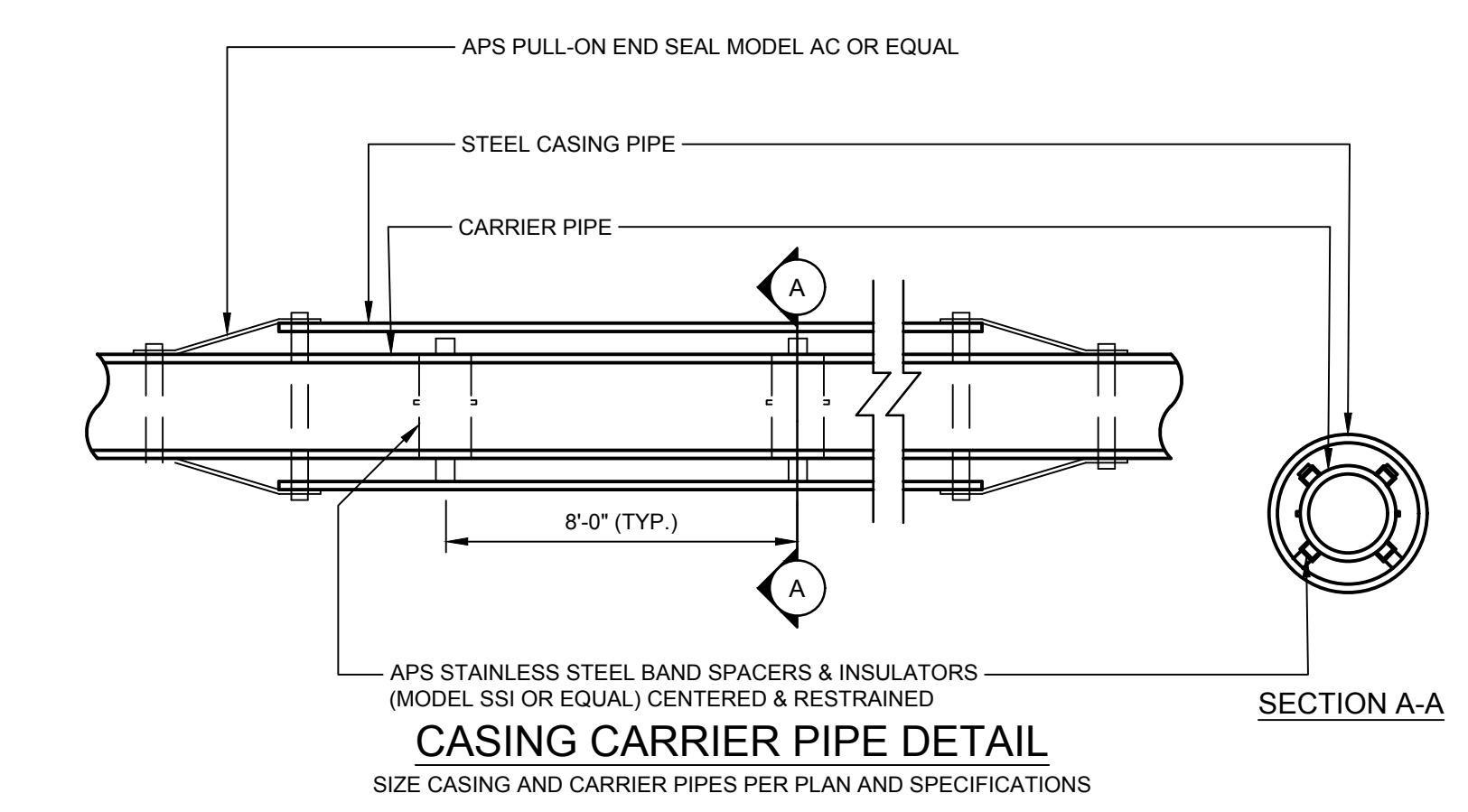


**TRENCH DETAIL
IN SUITABLE SOIL**

**TRENCH DETAIL
IN UNSUITABLE SOIL**



WATER MAIN CROSSING SEWER



CASING CARRIER PIPE DETAIL
SIZE CASING AND CARRIER PIPES PER PLAN AND SPECIFICATIONS

05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
03 07/24/2023	PAD
RE-ISSUED FOR EGLE PART 399 PERMIT	
02 07/03/2023	PAD
ISSUED FOR EGLE PART 399 PERMIT	
01 06/30/2023	PAD
70% SUBMITTAL	

REVISIONS

DATE: DECEMBER, 2023
SCALE: NONE

**WATER MAIN
STANDARD DETAILS**

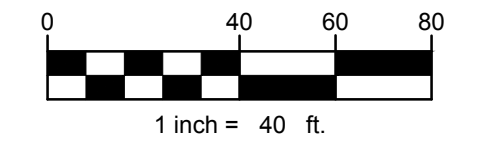
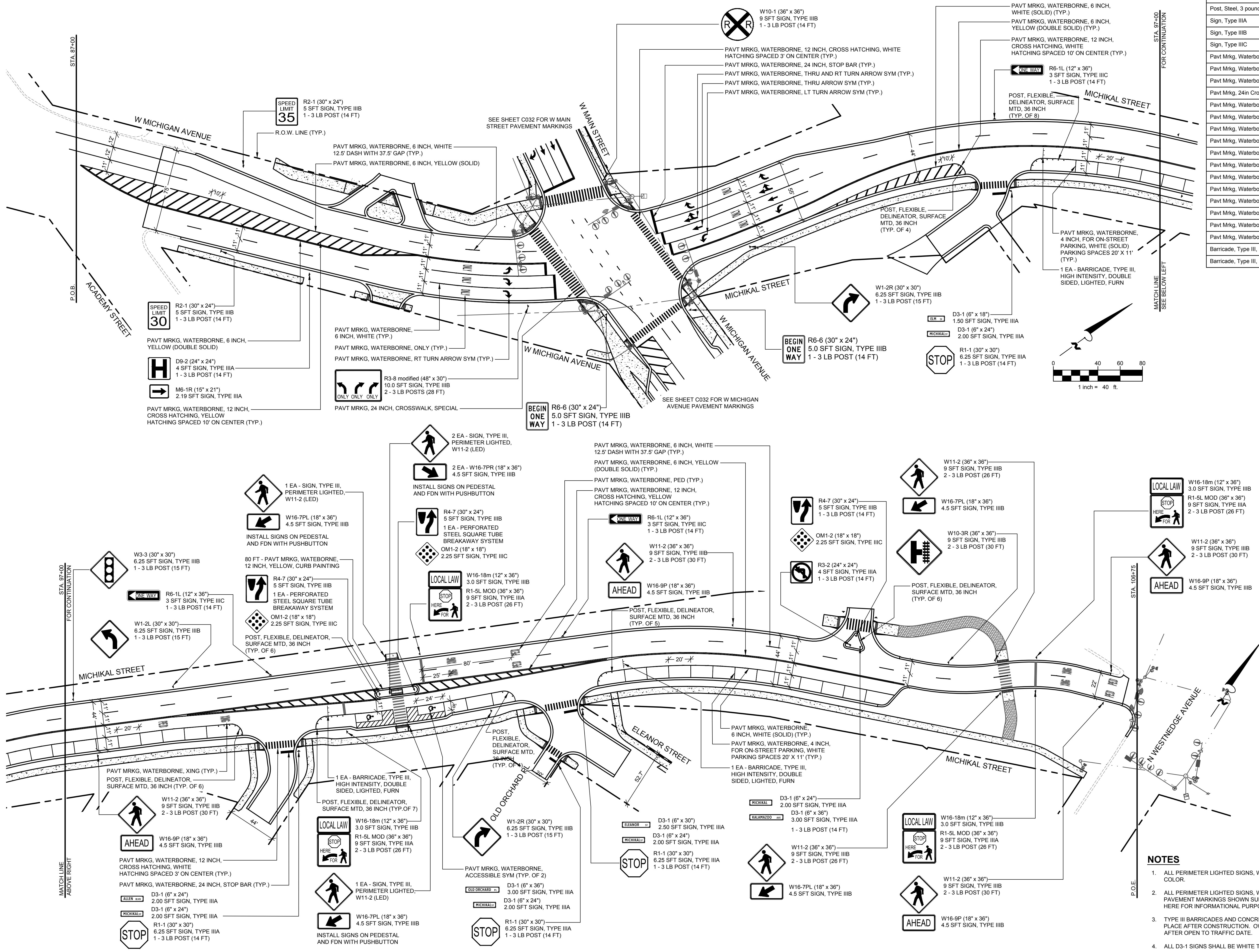
QUANTITIES THIS SHEET

ITEM	QTY.
Delineator, Reflective Sheeting, 3 inch by 12 inch, Yellow	52 Ea
Perforated Steel Square Tube Breakaway System	2 Ea
Post, Flexible, Delineator, Surface Mtd, 36 inch	52 Ea
Post, Steel, 3 pound	345 Ft
Sign, Type IIIA	65 Sft
Sign, Type IIIB	90 Sft
Sign, Type IIIC	20 Sft
Pavt Mrkg, Waterborne, 6 inch, White	2,350 Ft
Pavt Mrkg, Waterborne, 6 inch, Yellow	4,900 Ft
Pavt Mrkg, Waterborne, For On-Street Parking, 4 inch, White	725 Ft
Pavt Mrkg, 24in Crosswalk, Special	300 Ft
Pavt Mrkg, Waterborne, 24 inch, Stop Bar	175 Ft
Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, White	815 Ft
Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, Yellow	770 Ft
Pavt Mrkg, Waterborne, 12 inch, Yellow, Curb Painting	80 Ft
Pavt Mrkg, Waterborne, Only	6 Ea
Pavt Mrkg, Waterborne, Rt Turn Arrow Sym	4 Ea
Pavt Mrkg, Waterborne, Lt Turn Arrow Sym	3 Ea
Pavt Mrkg, Waterborne, Thru Arrow Sym	2 Ea
Pavt Mrkg, Waterborne, Thru and Rt Turn Arrow Sym	2 Ea
Pavt Mrkg, Waterborne, Accessible Sym	2 Ea
Pavt Mrkg, Waterborne, Xing	5 Ea
Pavt Mrkg, Waterborne, Ped	5 Ea
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	3 Ea
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	3 Ea

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PHILIP A. DOORLAG
6201067363
PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



- NOTES**
- ALL PERIMETER LIGHTED SIGNS, W11-2, W16-7, W16-9 SIGNS SHALL BE YELLOW - GREEN IN COLOR.
 - ALL PERIMETER LIGHTED SIGNS, W11-2, W16-7, W16-18M, R1-5, AND W16-9 SIGNS AND PAVEMENT MARKINGS SHOWN SUBDUED ARE INCLUDED IN ALTERNATE B AND SHOWN HERE FOR INFORMATIONAL PURPOSES ONLY.
 - TYPE III BARRICADES AND CONCRETE BARRIER SHOWN ON THIS SHEET TO REMAIN IN PLACE AFTER CONSTRUCTION. OWNER TO ASSUME RESPONSIBILITY FOR MAINTENANCE AFTER OPEN TO TRAFFIC DATE.
 - ALL D3-1 SIGNS SHALL BE WHITE TEXT ON BLUE BACKGROUND

REVISIONS

DATE	DESCRIPTION	BY
05/12/2023	ISSUED FOR BIDDING	PAD
04/10/25/2023	90% SUBMITTAL	PAD
01/08/30/2023	70% SUBMITTAL	PAD

PAVEMENT MARKINGS AND PERMANENT SIGNS - BASE BID
JOB No. 224022
C031
OF 69

QUANTITIES THIS SHEET

ITEM	QTY.
Post, Steel, 3 pound	35 Ft
Sign, Type IIIA	20 Sft
Pavt Mrkg, Waterborne, 6 inch, White	980 Ft
Pavt Mrkg, Waterborne, 6 inch, Yellow	500 Ft
Pavt Mrkg, Waterborne, For On-Street Parking, 4 inch, White	70 Ft
Pavt Mrkg, Waterborne, 24 inch, Stop Bar	130 Ft
Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, White	740 Ft
Pavt Mrkg, Waterborne, 6 inch, Solid Turning Guide Line, White	60 Ft
Pavt Mrkg, Waterborne, 6 inch, Dotted Thru Guide Line, White	65 Ft
Pavt Mrkg, Waterborne, Only	3 Ea
Pavt Mrkg, Waterborne, Rt Turn Arrow Sym	1 Ea
Pavt Mrkg, Waterborne, Thru Arrow Sym	2 Ea
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	4 Ea
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	4 Ea
Conc Barrier, Temp, Furn	30 Ft
Conc Barrier, Temp, Oper	30 Ft
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	300 Ft

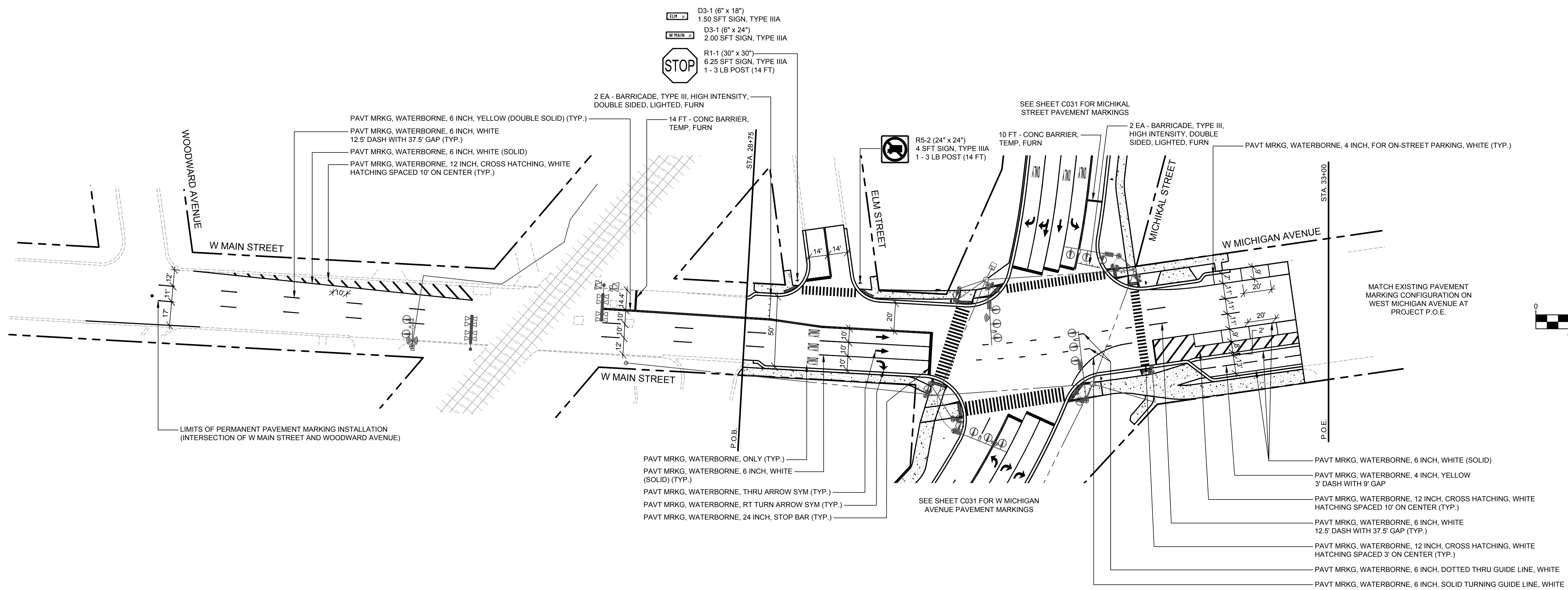


WIGHTMAN
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PHILIP A. DOORLAG
6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHICAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



- NOTES**
- TYPE III BARRICADES AND CONCRETE BARRIER SHOWN ON THIS SHEET TO REMAIN IN PLACE AFTER CONSTRUCTION. OWNER TO ASSUME RESPONSIBILITY FOR MAINTENANCE AFTER OPEN TO TRAFFIC DATE.
 - ALL D3-1 SIGNS SHALL BE WHITE TEXT ON BLUE BACKGROUND

05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 40'

**PAVEMENT MARKINGS
AND PERMANENT
SIGNS -
BASE BID**

QUANTITIES THIS SHEET

ITEM	QTY.
Delineator, Reflective Sheeting, 3 inch by 12 inch, Yellow	6 Ea
Post, Flexible, Delineator, Surface Mtd, 36 Inch	6 Ea
Post, Steel, 3 pound	350 Ft
Sign, Type IIIA	65 Sft
Sign, Type IIIB	85 Sft
Sign, Type IIIC	15 Sft
Pavt Mrkg, Waterborne, 6 inch, White	2,300 Ft
Pavt Mrkg, Waterborne, 6 inch, Yellow	2,200 Ft
Pavt Mrkg, 24in Crosswalk, Special	300 Ft
Pavt Mrkg, Waterborne, 24 inch, Stop Bar	120 Ft
Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, White	600 Ft
Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, Yellow	600 Ft
Pavt Mrkg, Waterborne, Only	6 Ea
Pavt Mrkg, Waterborne, Rt Turn Arrow Sym	4 Ea
Pavt Mrkg, Waterborne, Lt Turn Arrow Sym	3 Ea
Pavt Mrkg, Waterborne, Thru Arrow Sym	2 Ea
Pavt Mrkg, Waterborne, Thru and Rt Turn Arrow Sym	2 Ea



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PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

CITY OF
KALAMAZOO
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

05/12/2023 PAD
ISSUED FOR BIDDING

04/10/2023 PAD
90% SUBMITTAL

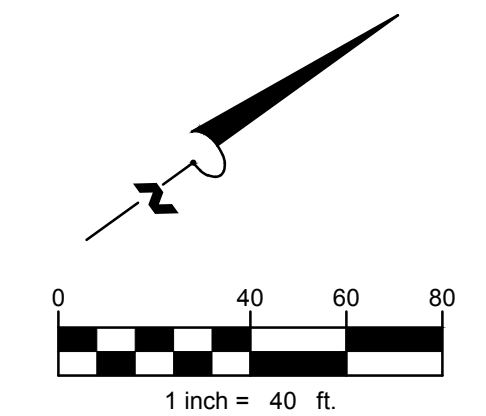
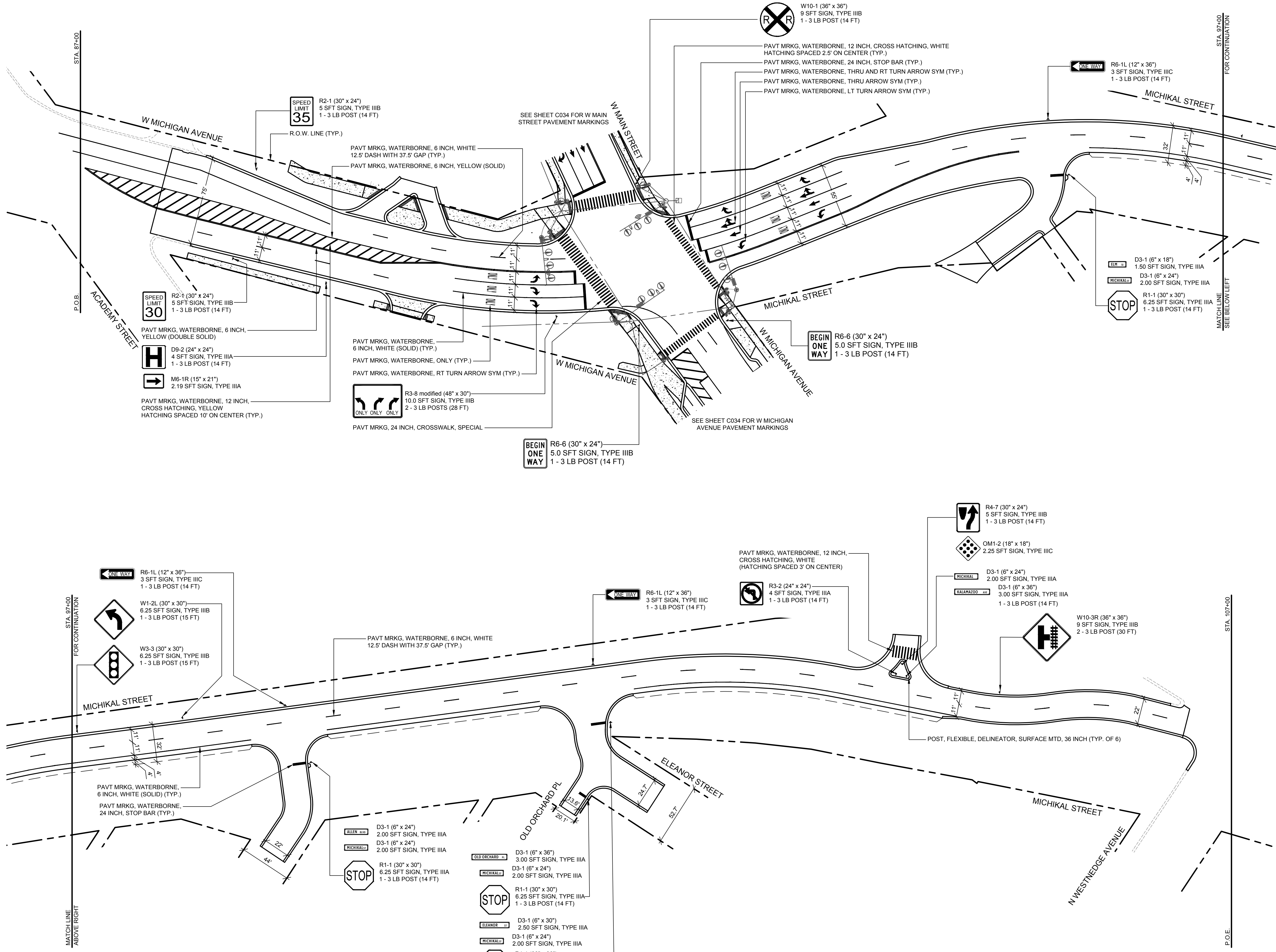
01/08/2023 PAD
70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 40'

PAVEMENT MARKINGS
AND PERMANENT
SIGNS -
ALTERNATE A

JOB No. 224022
C033
OF 69



NOTES
1. ALL D3-1 SIGNS SHALL BE WHITE TEXT ON BLUE BACKGROUND

QUANTITIES THIS SHEET

ITEM	QTY.
Post, Steel, 3 pound	35 Ft
Sign, Type IIIA	20 Sft
Pavt Mrkg, Waterborne, 6 inch, White	980 Ft
Pavt Mrkg, Waterborne, 6 inch, Yellow	500 Ft
Pavt Mrkg, Waterborne, For On-Street Parking, 4 inch, White	70 Ft
Pavt Mrkg, Waterborne, 24 inch, Stop Bar	130 Ft
Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, White	740 Ft
Pavt Mrkg, Waterborne, 6 inch, Solid Turning Guide Line, White	60 Ft
Pavt Mrkg, Waterborne, 6 inch, Dotted Thru Guide Line, White	65 Ft
Pavt Mrkg, Waterborne, Only	3 Ea
Pavt Mrkg, Waterborne, Rt Turn Arrow Sym	1 Ea
Pavt Mrkg, Waterborne, Thru Arrow Sym	2 Ea
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	4 Ea
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	4 Ea
Conc Barrier, Temp, Furn	30 Ft
Conc Barrier, Temp, Oper	30 Ft
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	300 Ft

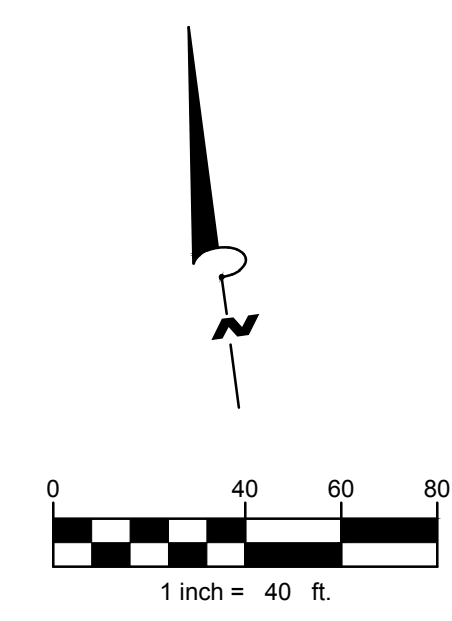
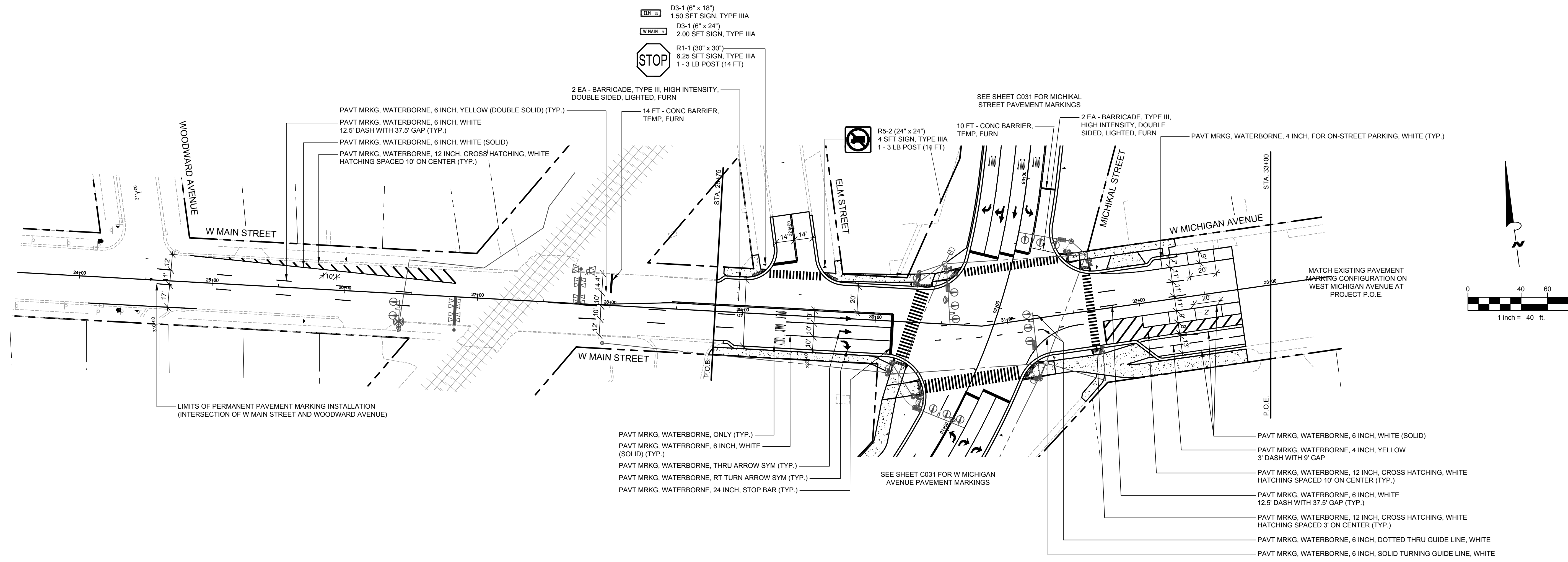


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PHILIP A. DOORLAG
 6201067363

PROJECT NAME:
**STREETS FOR ALL:
 MICHICAL
 IMPROVEMENTS**

CITY OF
KALAMAZOO
 415 E STOCKBRIDGE AVENUE
 KALAMAZOO, MI 49001



05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

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PAVEMENT MARKINGS
 AND PERMANENT
 SIGNS -
 ALTERNATE A

NOTES

- TYPE III BARRICADES AND CONCRETE BARRIER SHOWN ON THIS SHEET TO REMAIN IN PLACE AFTER CONSTRUCTION. OWNER TO ASSUME RESPONSIBILITY FOR MAINTENANCE AFTER OPEN TO TRAFFIC DATE.
- ALL D3-1 SIGNS SHALL BE WHITE TEXT ON BLUE BACKGROUND



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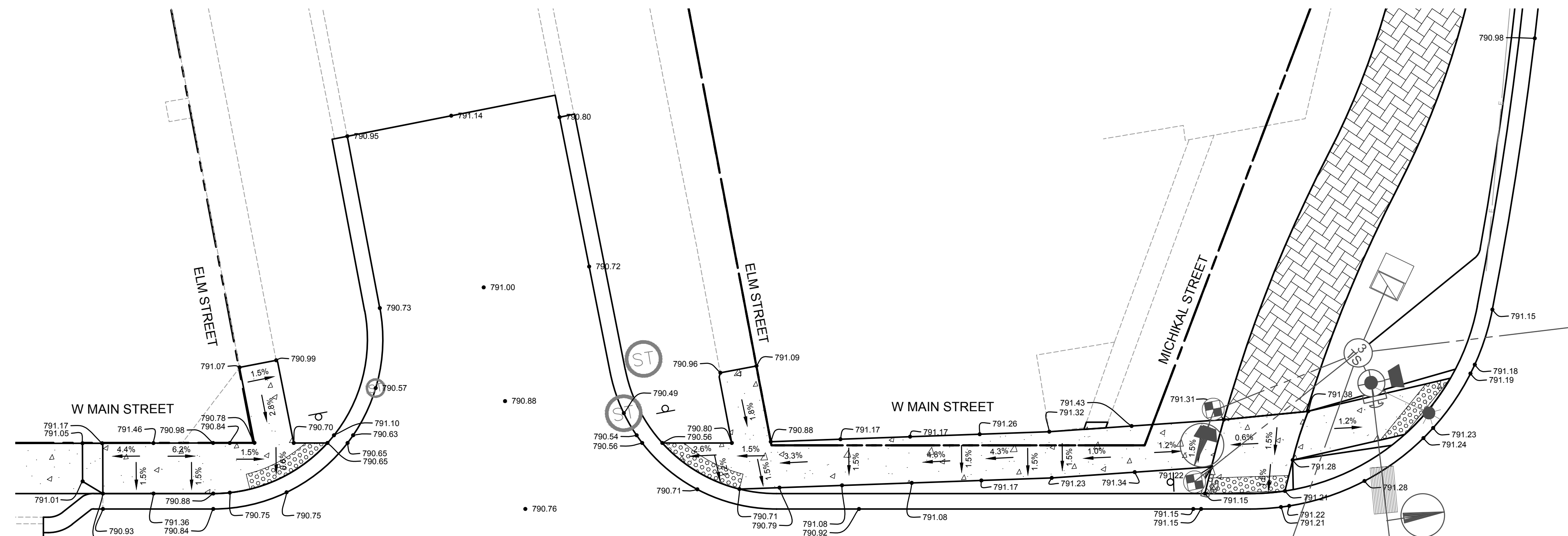
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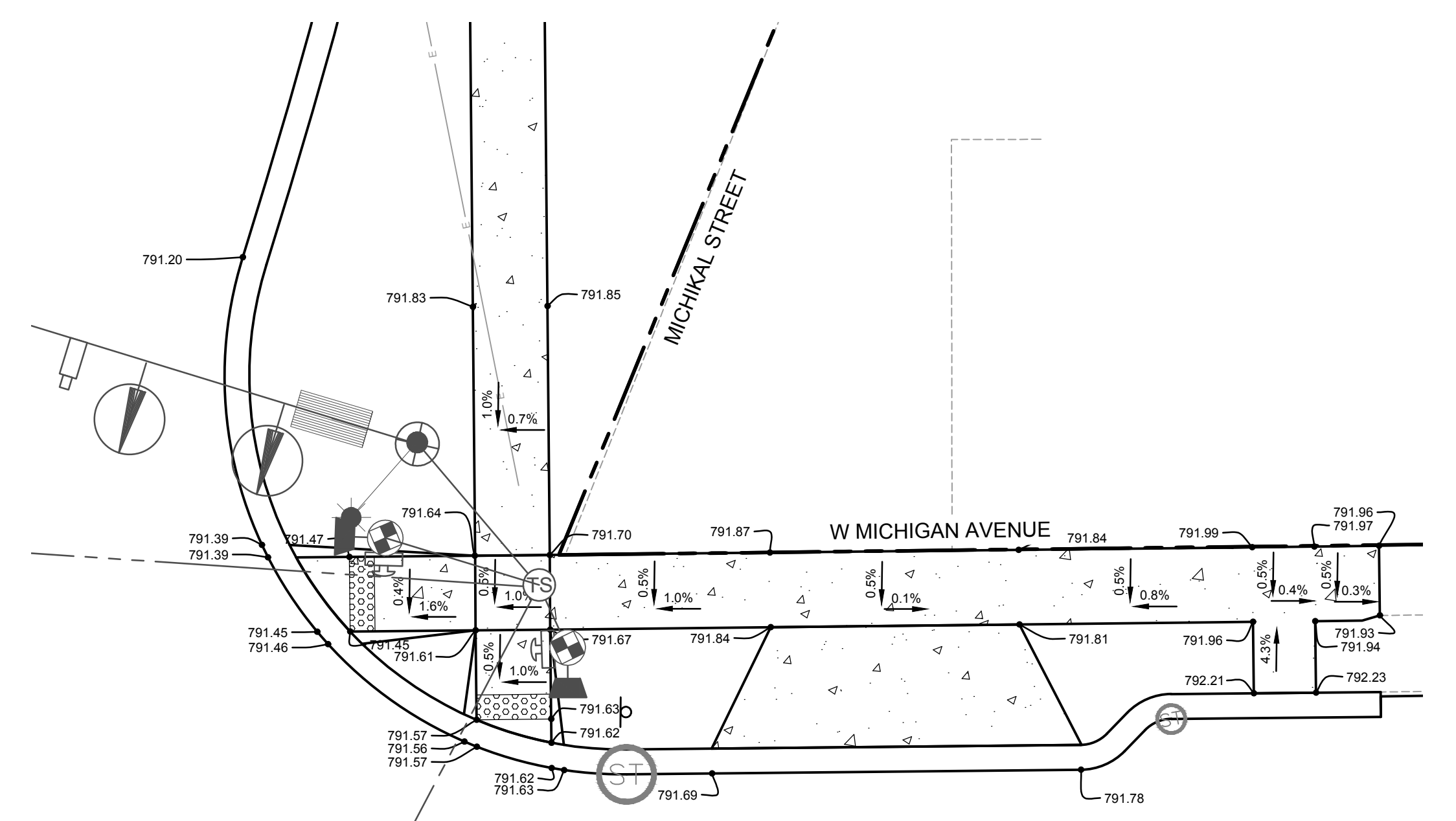
PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

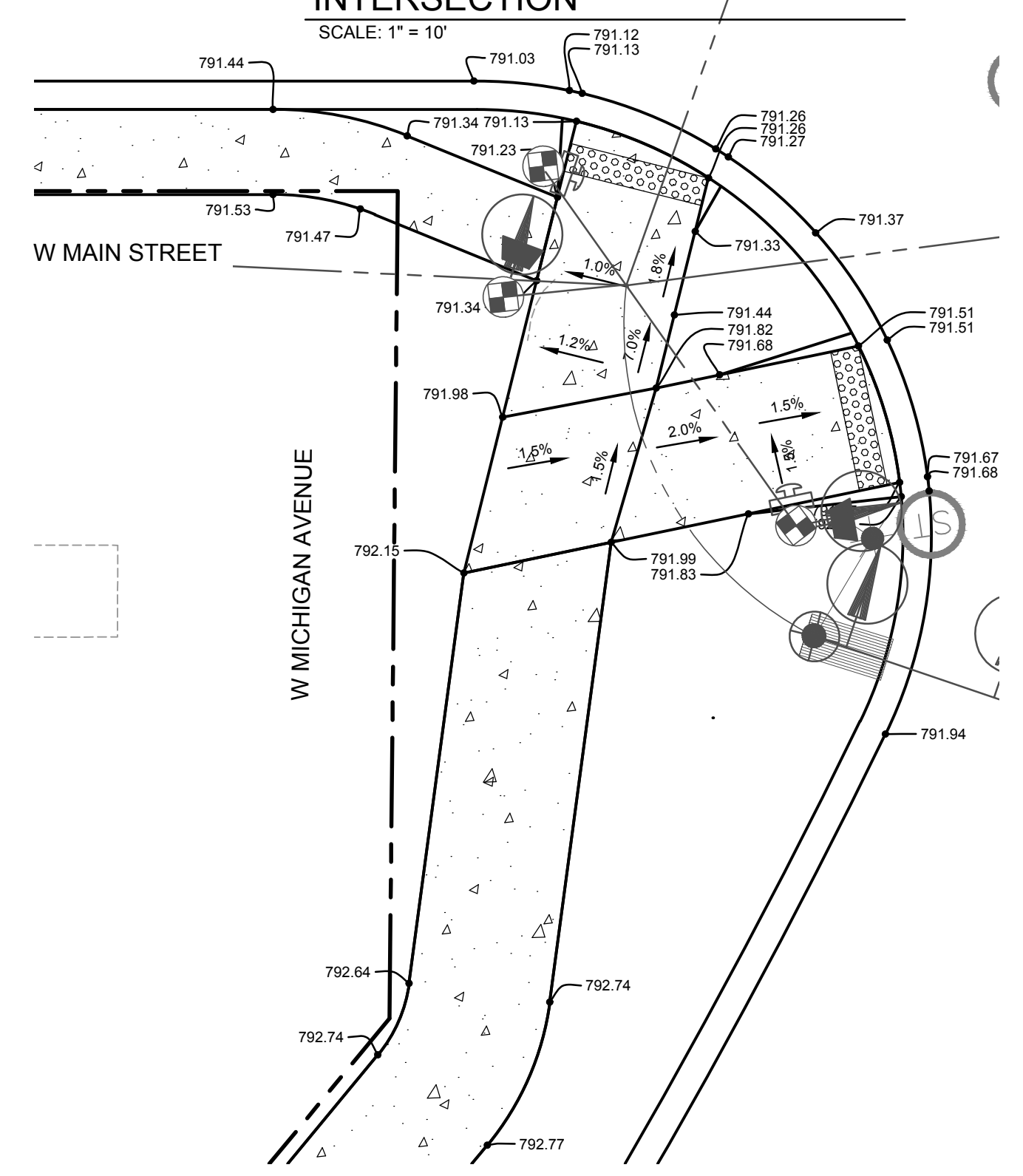


INCLUDED IN "BASE BID" AND
"ALTERNATE A" PACKAGE
**W MAIN STREET AND ELM STREET
INTERSECTION**
SCALE: 1" = 10'

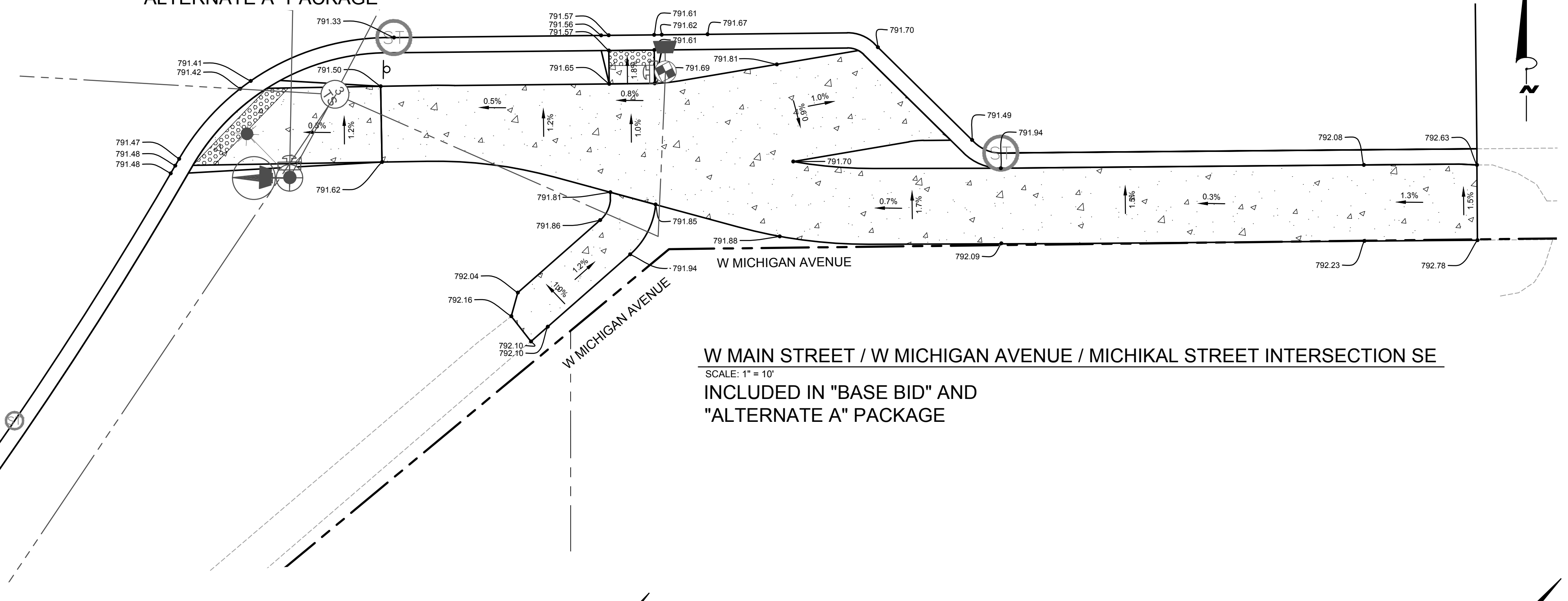
**W MAIN STREET / W MICHIGAN AVENUE
MICHIKAL STREET INTERSECTION NW**
SCALE: 1" = 10'
INCLUDED IN "BASE BID" AND
"ALTERNATE A" PACKAGE



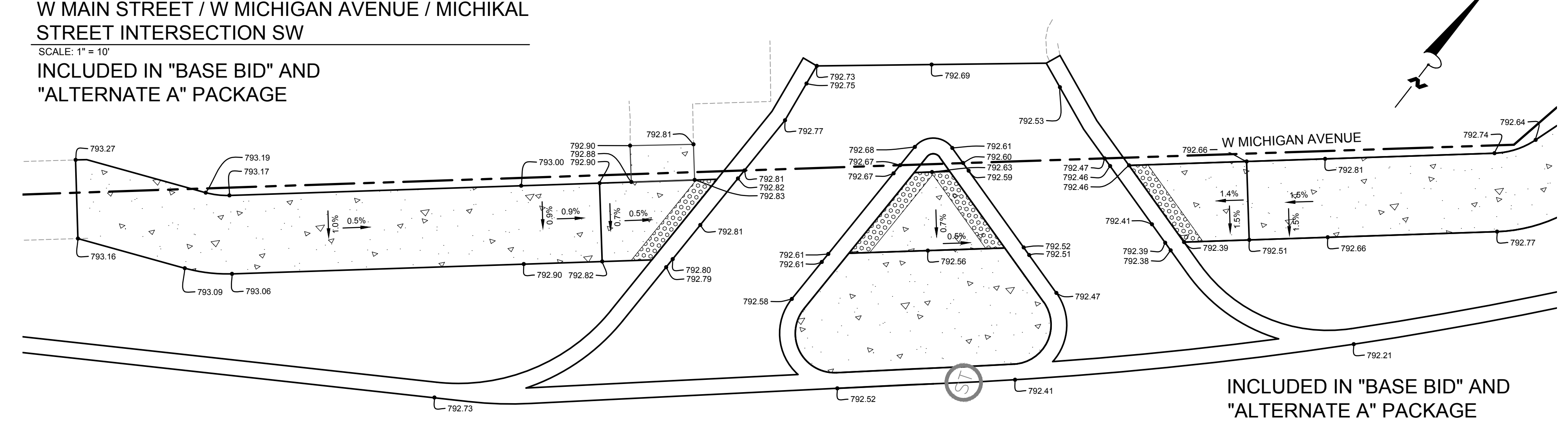
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/ MICHIKAL STREET INTERSECTION NE**
SCALE: 1" = 10'
INCLUDED IN "BASE BID" AND
"ALTERNATE A" PACKAGE



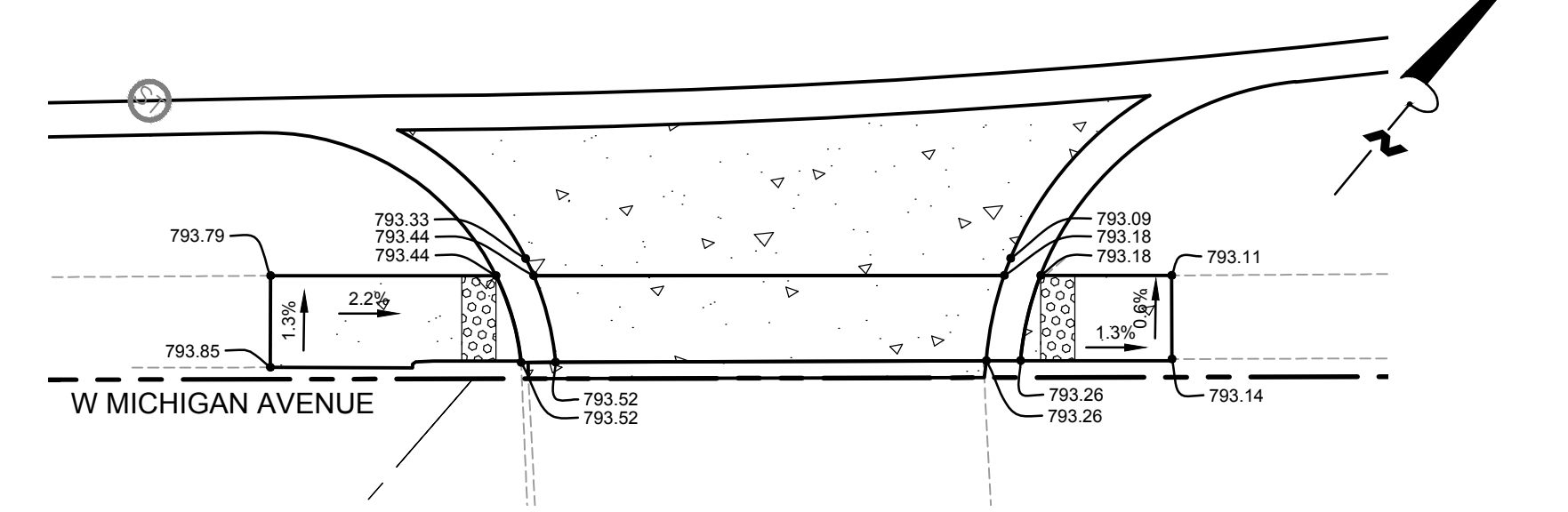
**W MAIN STREET / W MICHIGAN AVENUE / MICHIKAL
STREET INTERSECTION SW**
SCALE: 1" = 10'
INCLUDED IN "BASE BID" AND
"ALTERNATE A" PACKAGE



W MAIN STREET / W MICHIGAN AVENUE / MICHIKAL STREET INTERSECTION SE
SCALE: 1" = 10'
INCLUDED IN "BASE BID" AND
"ALTERNATE A" PACKAGE



INCLUDED IN "BASE BID" AND
"ALTERNATE A" PACKAGE
**WALGREENS ENTRANCE ON
WEST MICHIGAN AVENUE**
SCALE: 1" = 10'



INCLUDED IN "BASE BID" AND
"ALTERNATE A" PACKAGE
**COMFORT INN DOWNTOWN ENTRANCE
ON WEST MICHIGAN AVENUE**
SCALE: 1" = 10'

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ISSUED FOR BIDDING

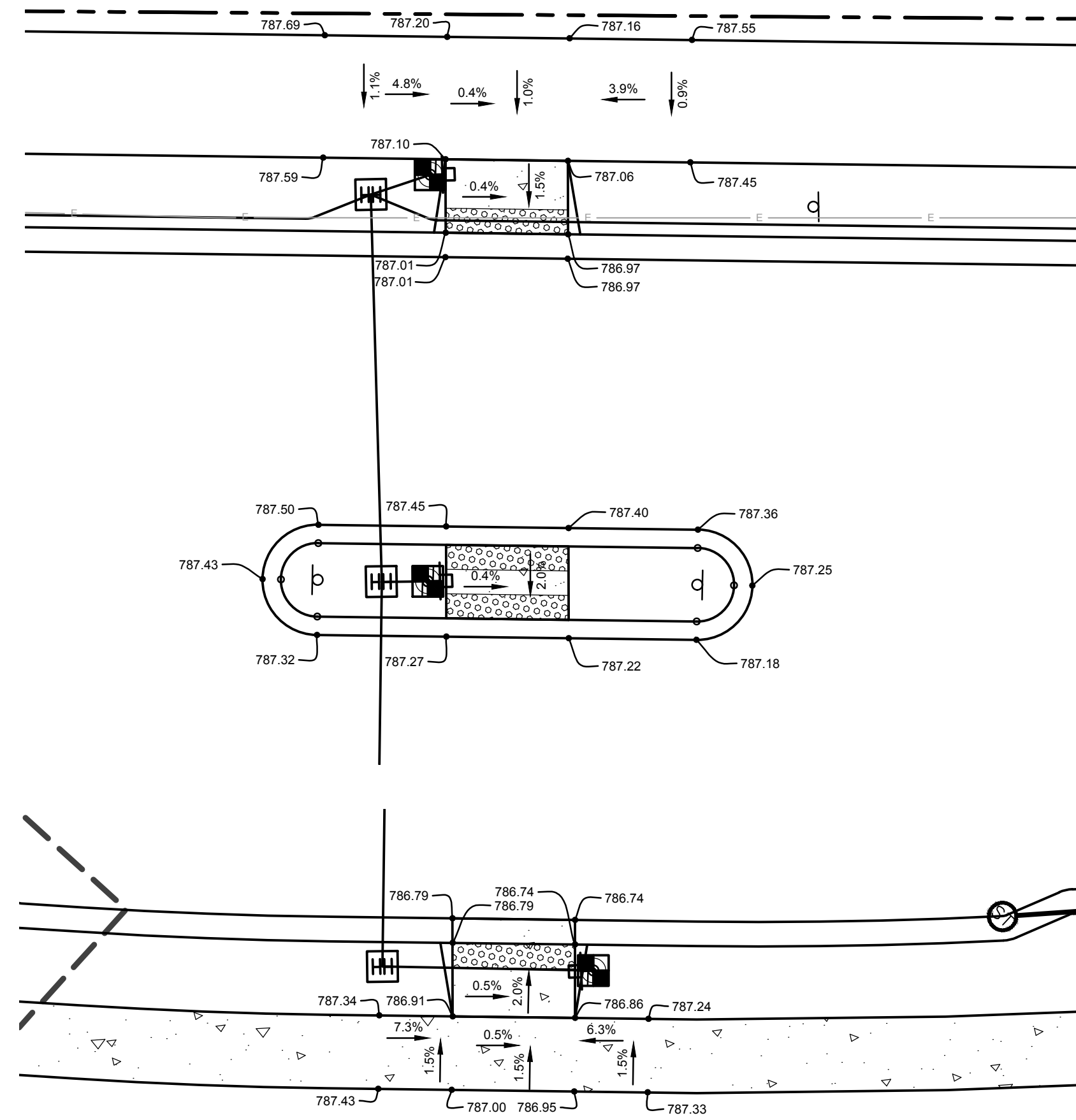
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90% SUBMITTAL

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70% SUBMITTAL

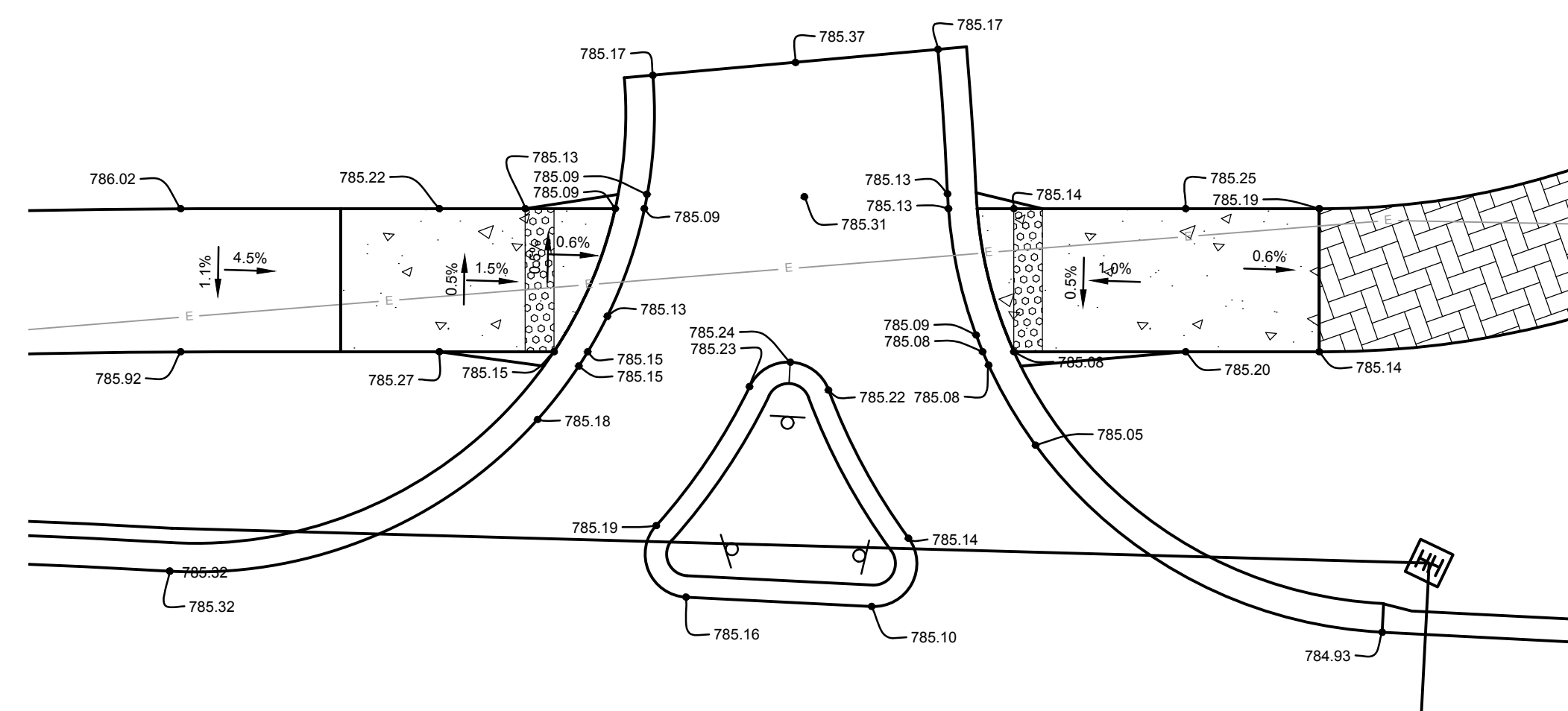
REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 10'

**ADA RAMP AND
PEDESTRIAN DETAILS**

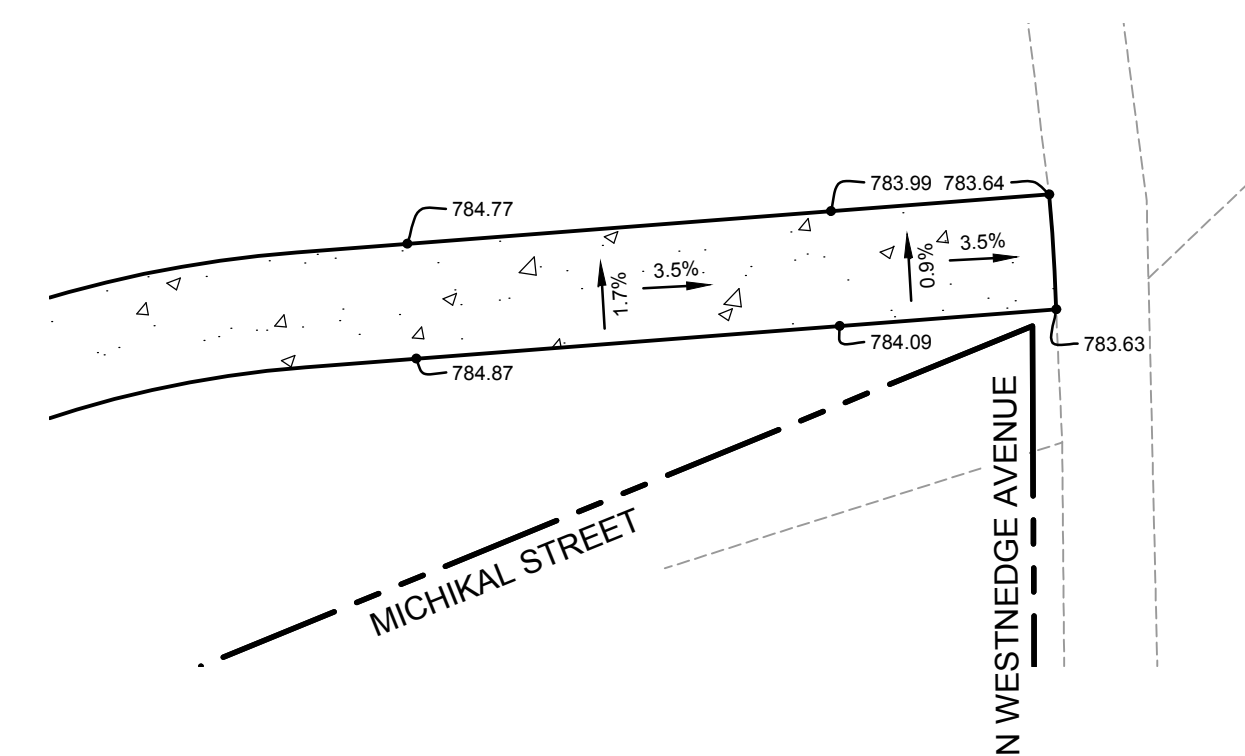
JOB No. 224022
C035
OF 69



SIDEWALK RAMP INCLUDED ONLY IN
"ALTERNATE B" PACKAGE
MICHIKAL STREET
PEDESTRIAN ISLAND
SCALE: 1" = 10'



INCLUDED IN "BASE BID" AND
"ALTERNATE A" PACKAGE
MICHIKAL STREET AND W KALAMAZOO AVENUE
INTERSECTION
SCALE: 1" = 10'



INCLUDED ONLY IN "BASE BID" PACKAGE
N WESTNEDGE AVENUE AND MICHIKAL STREET INTERSECTION
TEMPORARY CONNECTION TO EXISTING SIDEWALK
SCALE: 1" = 10'



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PROJECT NAME:
**STREETS FOR ALL:
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IMPROVEMENTS**

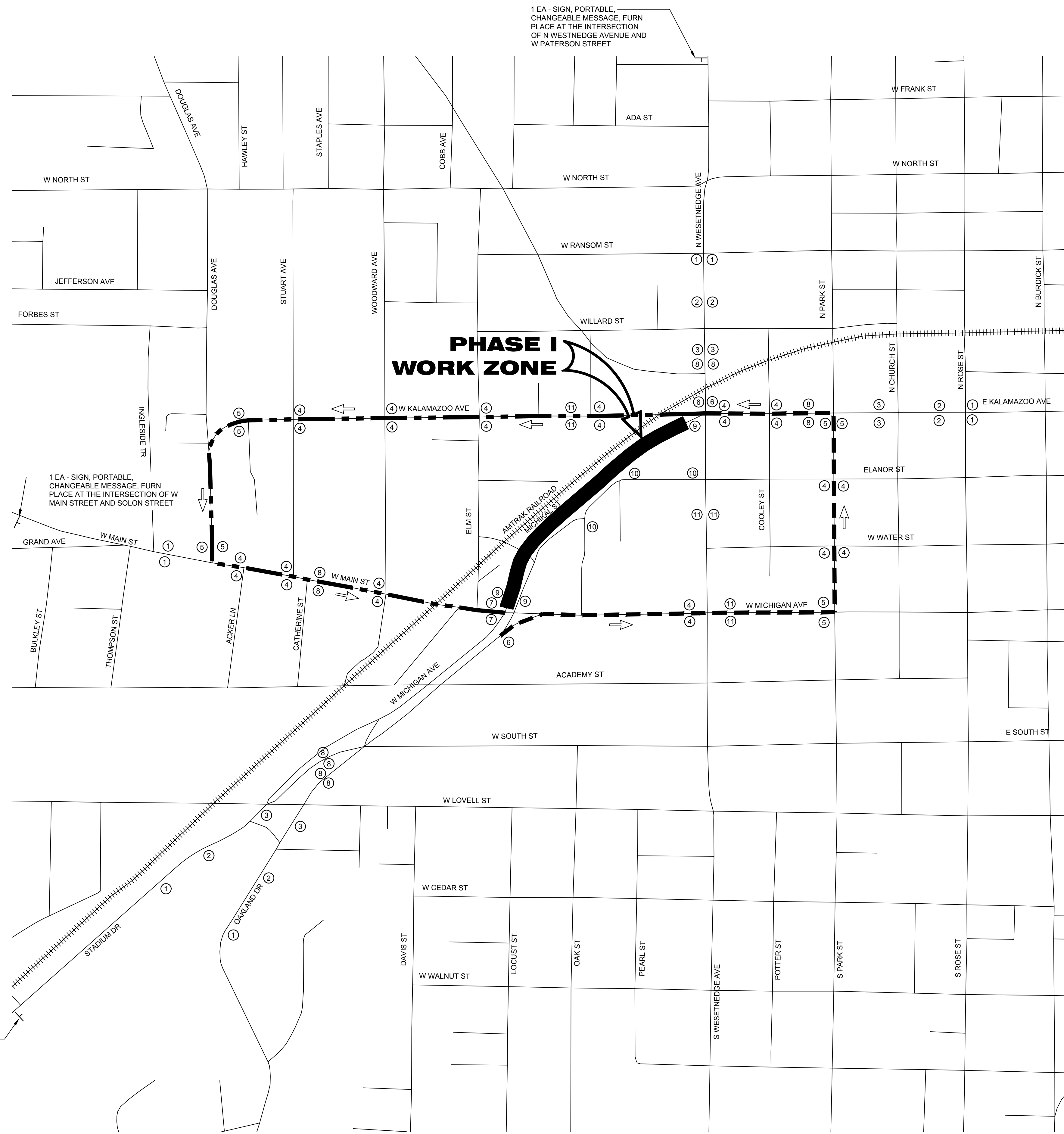
**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

05/12/2023	PAD
ISSUED FOR BIDDING	
04/10/25/2023	PAD
90% SUBMITTAL	
01/08/30/2023	PAD
70% SUBMITTAL	

REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 10'

ADA RAMP AND
PEDESTRIAN DETAILS

LEGEND					
SIGN NO.	QTY.	SIGN DESIGNATION	DESCRIPTION	SIZE	AREA
1	8 EA	W20-1	ROAD WORK AHEAD	48 INCH x 48 INCH	128 SFT
2	6 EA	W20-3	ROAD CLOSED AHEAD	48 INCH x 48 INCH	96 SFT
		W16-8P	MICHIKAL ST	36 INCH x 12 INCH	18 SFT
3	6 EA	W20-2	DETOUR AHEAD	48 INCH x 48 INCH	96 SFT
4	24 EA	M4-9	DETOUR	30 INCH x 24 INCH	120 SFT
		W16-8P	MICHIKAL ST	36 INCH x 12 INCH	72 SFT
5	8 EA	M4-9	DETOUR	30 INCH x 24 INCH	40 SFT
		W16-8P	MICHIKAL ST	36 INCH x 12 INCH	24 SFT
6	3 EA	M4-9	DETOUR	30 INCH x 24 INCH	15 SFT
		W16-8P	MICHIKAL ST	36 INCH x 12 INCH	9 SFT
7	2 EA	W16-8P	MICHIKAL ST	36 INCH x 12 INCH	6 SFT
		M4-8a	END DETOUR	24 INCH x 18 INCH	6 SFT
8	10 EA	R5-18c	WORK ZONE BEGINS	48 INCH x 48 INCH	160 SFT
9	3 EA	BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED	SEE SHEETS C038 AND C039 FOR NUMBER REQUIRED AT EACH LOCATION		3 EA
		R11-2	ROAD CLOSED	48 INCH x 30 INCH	30 SFT
10	3 EA	BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED	SEE SHEETS C038 AND C039 FOR NUMBER REQUIRED AT EACH LOCATION		2 EA
		R11-4	ROAD CLOSED TO THRU TRAFFIC	60 INCH x 30 INCH	37.5 SFT
11	6 EA	G20-2	END ROAD WORK	48 INCH x 24 INCH	48 SFT
				TOTAL AREA =	906 SFT



MICHIKAL IMPROVEMENTS - PHASE I OVERVIEW
SCALE: 1" = 300'

QUANTITIES THIS SHEET	
ITEM	QTY.
Maintenance Gravel	500 Ton
Rem Spec Mrkg	40 Sft
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	25 Ea
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	25 Ea
Channelizing Device, 42 inch, Fluorescent, Furn	100 Ea
Channelizing Device, 42 inch, Fluorescent, Oper	100 Ea
Lighted Arrow, Type C, Furn	2 Ea
Lighted Arrow, Type C, Oper	2 Ea
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	225 Ft
Pavt Mrkg, Type NR, Paint, Lt Turn Arrow	3 Ea
Sign, Portable, Changeable Message, Furn	4 Ea
Sign, Portable, Changeable Message, Oper	4 Ea
Sign, Type B, Temp, Prismatic, Furn	800 Sft
Sign, Type B, Temp, Prismatic, Oper	800 Sft
Sign, Type B, Temp, Prismatic, Spec, Furn	150 Sft
Sign, Type B, Temp, Prismatic, Spec, Oper	150 Sft
TS Face, Bag	4 Ea



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PROJECT NAME:
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IMPROVEMENTS**

CITY OF
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415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

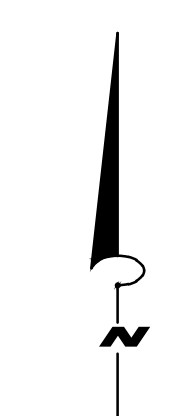
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04/10/25/2023	90% SUBMITTAL	PAD
01/08/30/2023	70% SUBMITTAL	PAD

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DATE: DECEMBER, 2023
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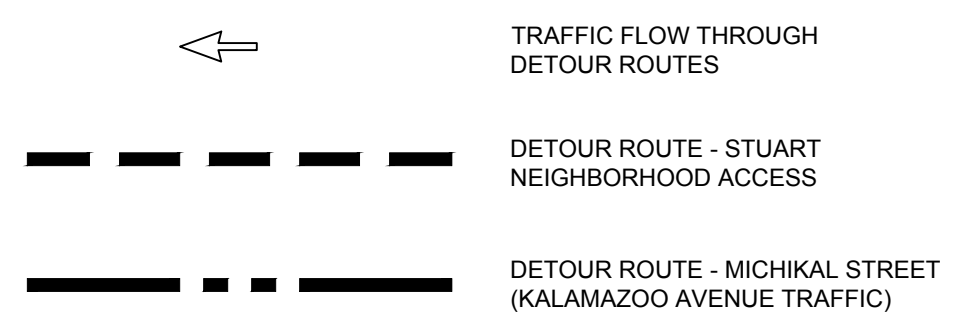
MAINTAINING TRAFFIC
PHASE I -
OVERVIEW AND DETOUR
ROUTE

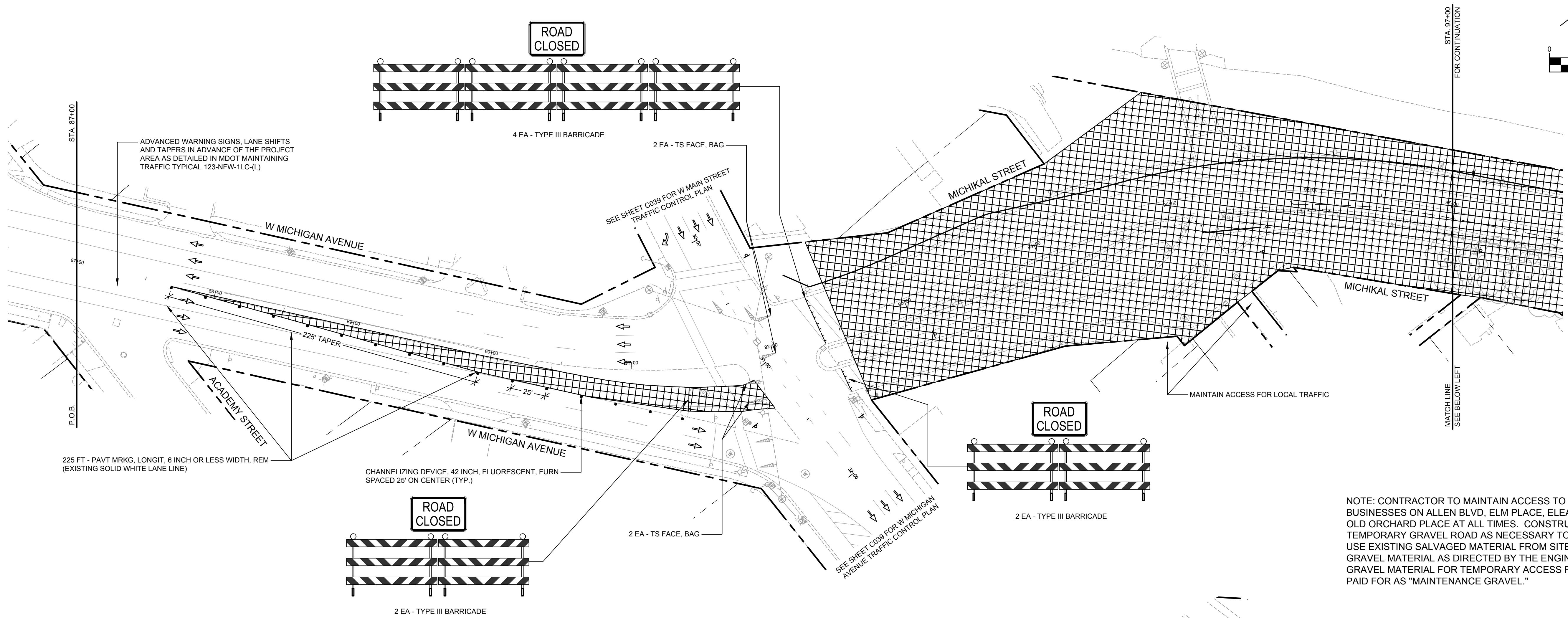
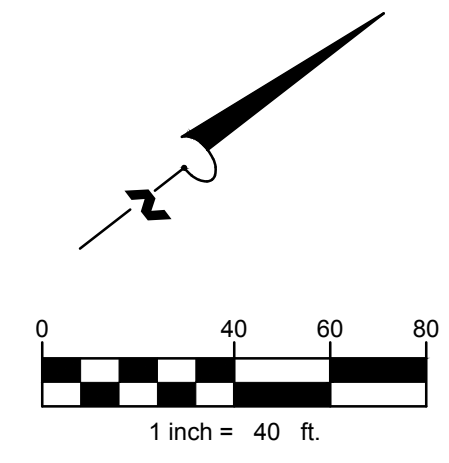
JOB No. 224022
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OF 69



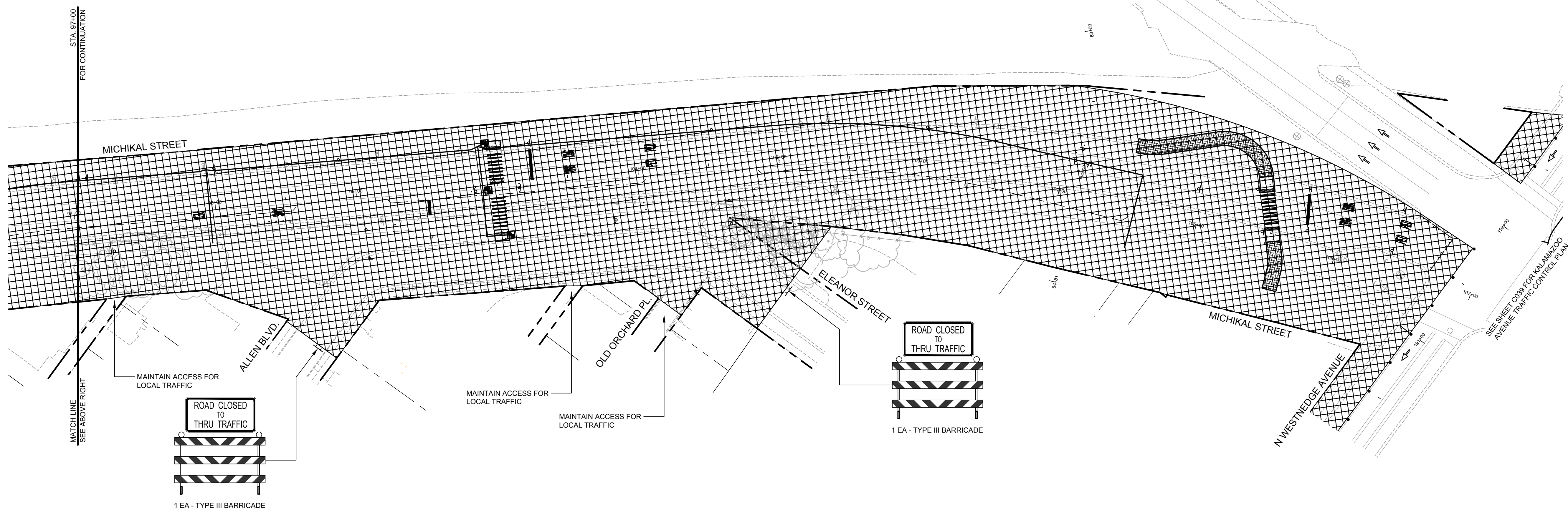
1 EA - SIGN, PORTABLE, CHANGEABLE MESSAGE, FURN PLACE AT THE INTERSECTION OF E MICHIGAN AVENUE AND KING HIGHWAY

1 EA - SIGN, PORTABLE, CHANGEABLE MESSAGE, FURN PLACE AT THE INTERSECTION OF STADIUM DRIVE AND HOWARD STREET





NOTE: CONTRACTOR TO MAINTAIN ACCESS TO HOMES AND BUSINESSES ON ALLEN BLVD, ELM PLACE, ELEANOR STREET AND OLD ORCHARD PLACE AT ALL TIMES. CONSTRUCT AND MAINTAIN TEMPORARY GRAVEL ROAD AS NECESSARY TO MAINTAIN ACCESS. USE EXISTING SALVAGED MATERIAL FROM SITE OR FURNISH GRAVEL MATERIAL AS DIRECTED BY THE ENGINEER. FURNISHED GRAVEL MATERIAL FOR TEMPORARY ACCESS PURPOSES TO BE PAID FOR AS "MAINTENANCE GRAVEL."



- PHASE I LEGEND**
- WORK AREA
 - CHANNELIZING DEVICES
 - TRAFFIC FLOW
 - TEMPORARY PAVEMENT MARKING
 - EXISTING TRAFFIC SIGNAL HEAD
 - TEMPORARY TRAFFIC SIGNAL HEAD
 - TEMPORARY PAVEMENT MARKING

05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	
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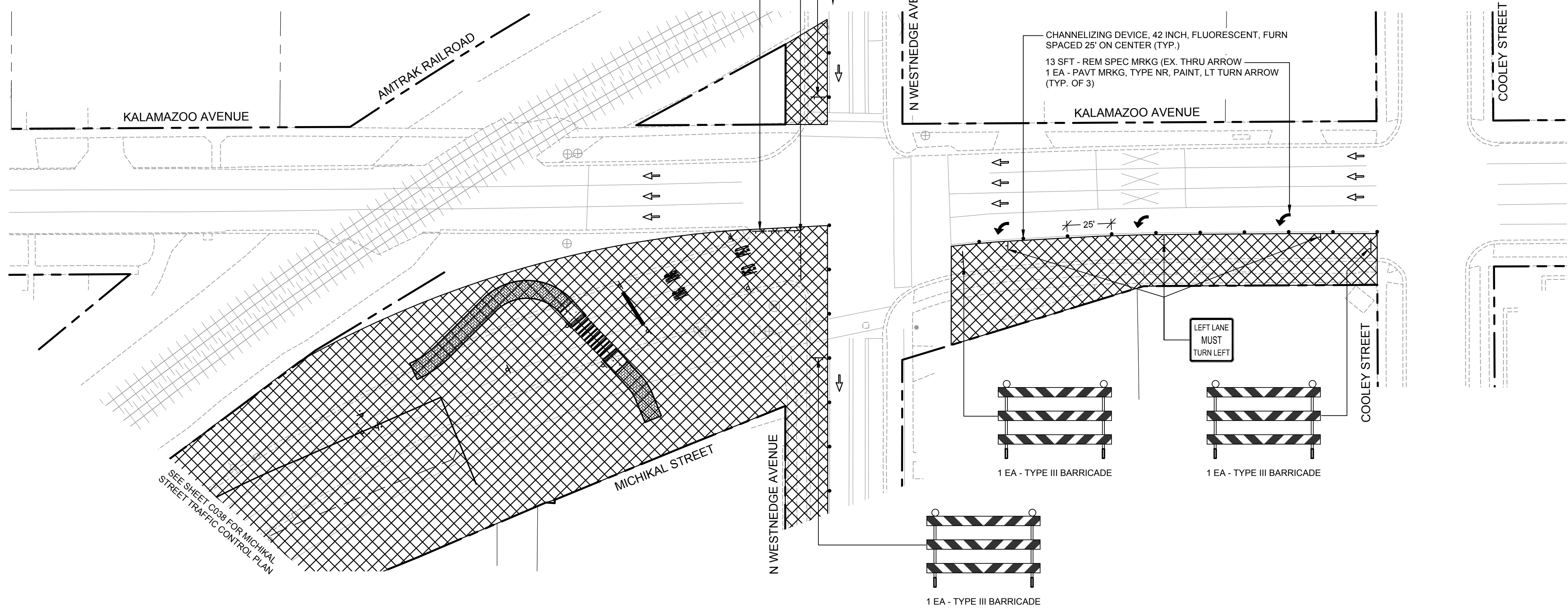
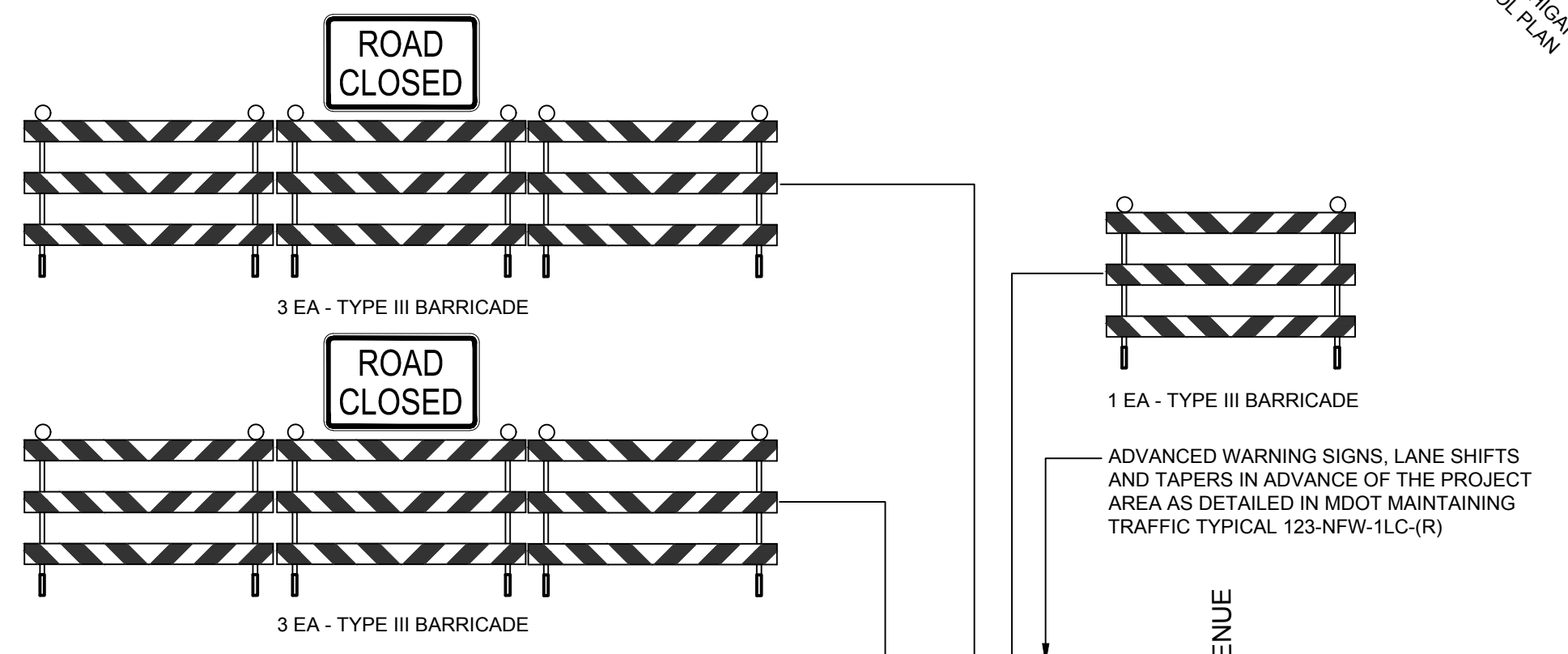
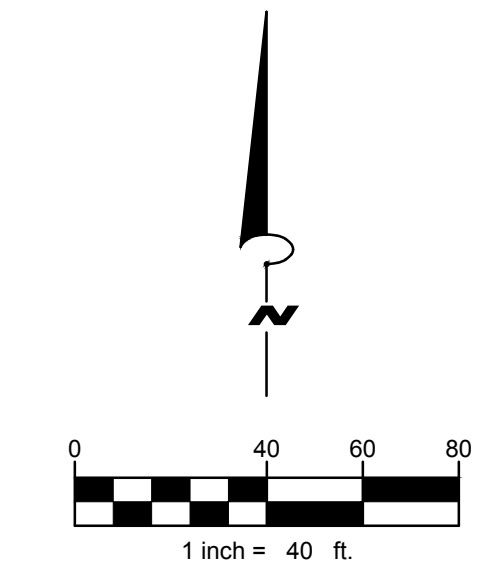
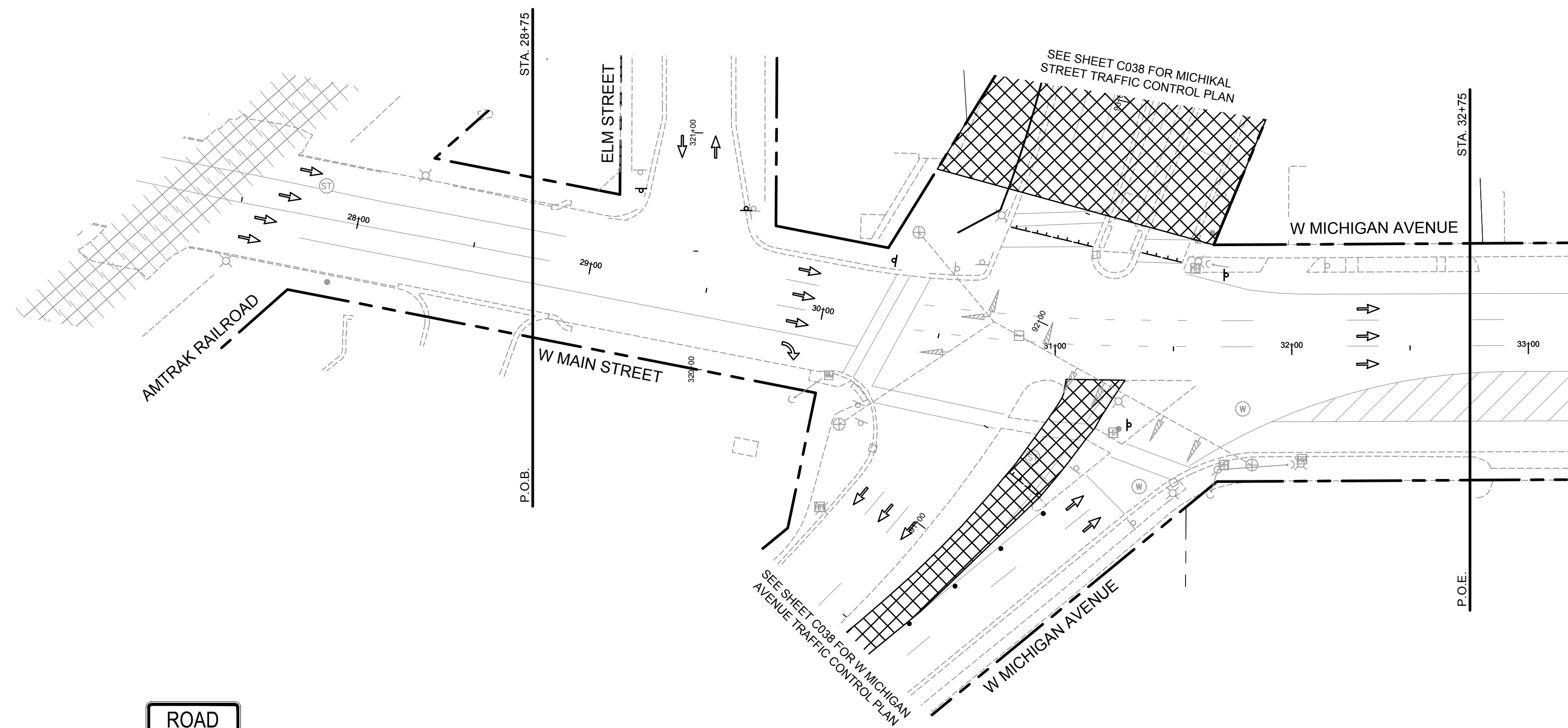
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6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHICAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



PHASE I LEGEND

- WORK AREA
- CHANNELIZING DEVICES
- TRAFFIC FLOW
- TEMPORARY PAVEMENT MARKING
- EXISTING TRAFFIC SIGNAL HEAD
- TEMPORARY TRAFFIC SIGNAL HEAD
- TEMPORARY PAVEMENT MARKING

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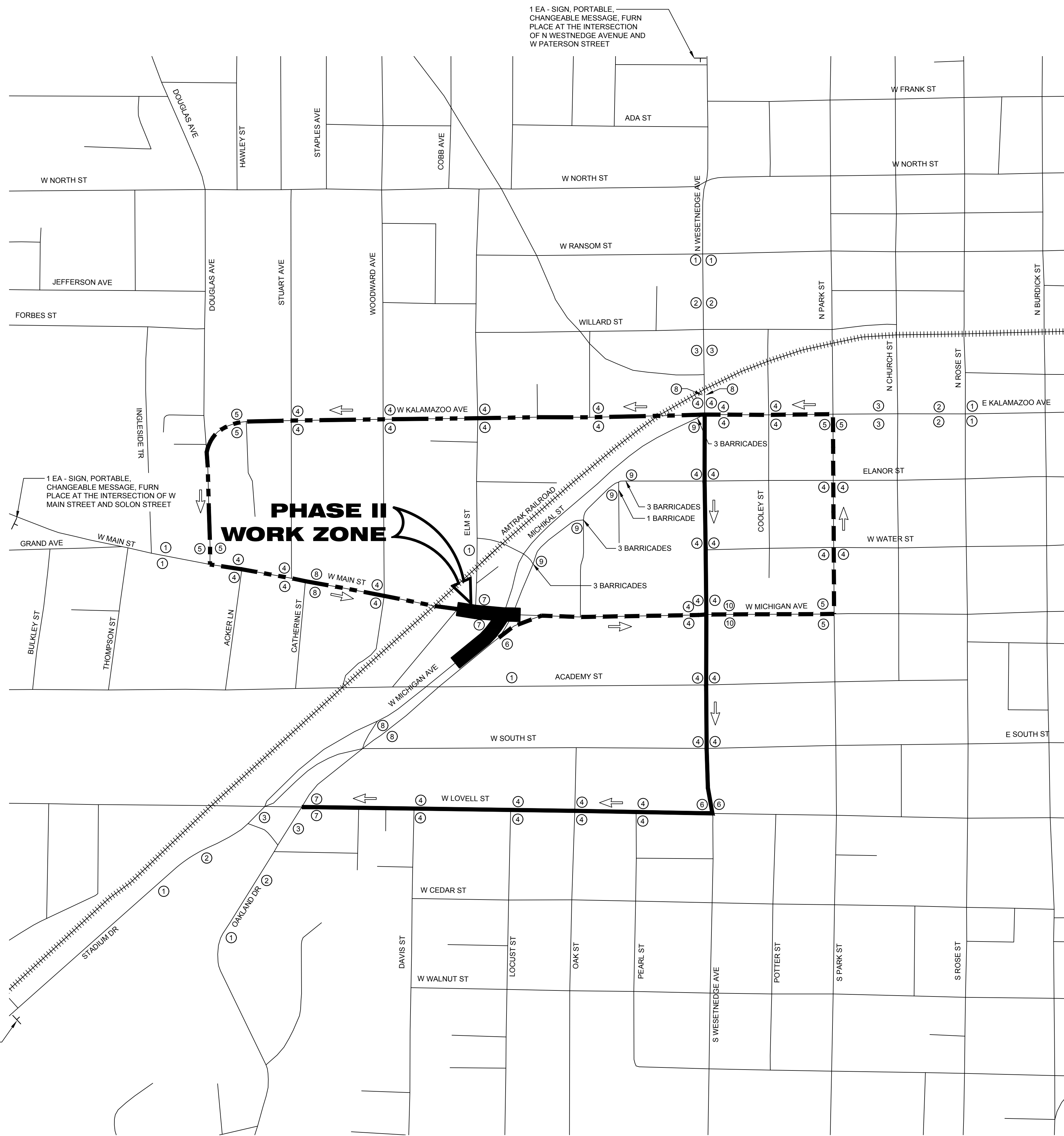
SCALE: 1" = 40'

MAINTAINING TRAFFIC

PHASE I - MICHICAL STREET RECONSTRUCTION

LEGEND					
SIGN NO.	QTY.	SIGN DESIGNATION	DESCRIPTION	SIZE	AREA
①	8 EA	W20-1		48 INCH x 48 INCH	128 SFT
②	6 EA	W20-3		48 INCH x 48 INCH	96 SFT
		W16-8P		36 INCH x 12 INCH	18 SFT
③	6 EA	W20-2		48 INCH x 48 INCH	96 SFT
④	44 EA	M4-9		30 INCH x 24 INCH	220 SFT
		W16-8P		36 INCH x 12 INCH	132 SFT
⑤	8 EA	M4-9		30 INCH x 24 INCH	40 SFT
		W16-8P		36 INCH x 12 INCH	24 SFT
⑥	2 EA	M4-9		30 INCH x 24 INCH	10 SFT
		W16-8P		36 INCH x 12 INCH	6 SFT
⑦	4 EA	W16-8P		36 INCH x 12 INCH	12 SFT
		M4-8a		24 INCH x 18 INCH	12 SFT
⑧	4 EA	R5-18c		48 INCH x 48 INCH	64 SFT
⑨	5 EA	BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED		SEE OVERVIEW MAP FOR NUMBER REQUIRED AT EACH LOCATION	5 EA
		R11-4		60 INCH x 30 INCH	62.5 SFT
⑩	2 EA	G20-2		48 INCH x 24 INCH	16 SFT

TOTAL AREA = 936.5 SFT



1 EA - SIGN, PORTABLE, CHANGEABLE MESSAGE, FURN PLACE AT THE INTERSECTION OF STADIUM DRIVE AND HOWARD STREET

1 EA - SIGN, PORTABLE, CHANGEABLE MESSAGE, FURN PLACE AT THE INTERSECTION OF N WESTEDGE AVENUE AND W PATERSON STREET

1 EA - SIGN, PORTABLE, CHANGEABLE MESSAGE, FURN PLACE AT THE INTERSECTION OF W MAIN STREET AND SOLON STREET

1 EA - SIGN, PORTABLE, CHANGEABLE MESSAGE, FURN PLACE AT THE INTERSECTION OF E MICHIGAN AVENUE AND KING HIGHWAY

MICHIKAL IMPROVEMENTS - PHASE I OVERVIEW
SCALE: 1" = 300'

QUANTITIES THIS SHEET	
ITEM	QTY.
Pavt. Rem, Modified	50 Syd
Hand Patching	20 Ton
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	45 Ea
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	45 Ea
Channelizing Device, 42 inch, Fluorescent, Furn	250 Ea
Channelizing Device, 42 inch, Fluorescent, Oper	250 Ea
Lighted Arrow, Type C, Furn	4 Ea
Lighted Arrow, Type C, Oper	4 Ea
Pavt Mrkg, Longit, 6 inch or Less Width, Rem	25 Ft
Pavt Mrkg, Type NR, Paint, 24 inch, Stop Bar	65 Ft
Pavt Mrkg, Type NR, Paint, Rt Turn Arrow	4 Ea
Pavt Mrkg, Type NR, Paint, Thru Arrow	4 Ea
Pavt Mrkg, Wet Reflective, Type NR, Paint, 4 inch, White, Temp	150 Ft
Pavt Mrkg, Wet Reflective, Type NR, Paint, 4 inch, Yellow, Temp	975 Ft
Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, White, Temp	50 Ft
Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, Yellow, Temp	40 Ft
Sign, Portable, Changeable Message, Furn	4 Ea
Sign, Portable, Changeable Message, Oper	4 Ea
Sign, Type B, Temp, Prismatic, Furn	1,000 Sft
Sign, Type B, Temp, Prismatic, Oper	1,000 Sft
Sign, Type B, Temp, Prismatic, Spec, Furn	200 Sft
Sign, Type B, Temp, Prismatic, Spec, Oper	200 Sft
TS Head, Adj	1 Ea
TS Head, Temp	3 Ea
TS Face, Bag	8 Ea
TS Face, Bag, Rem	12 Ea

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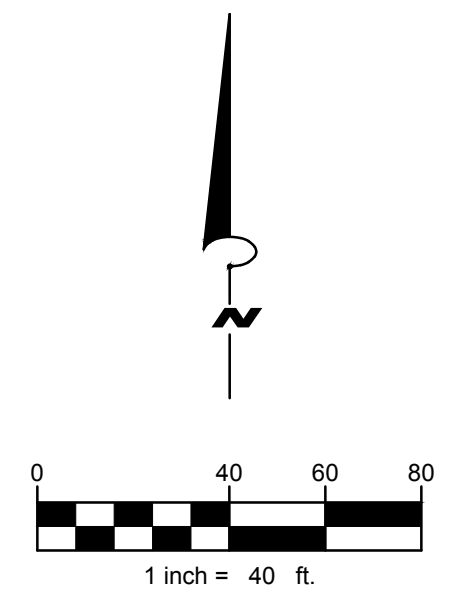
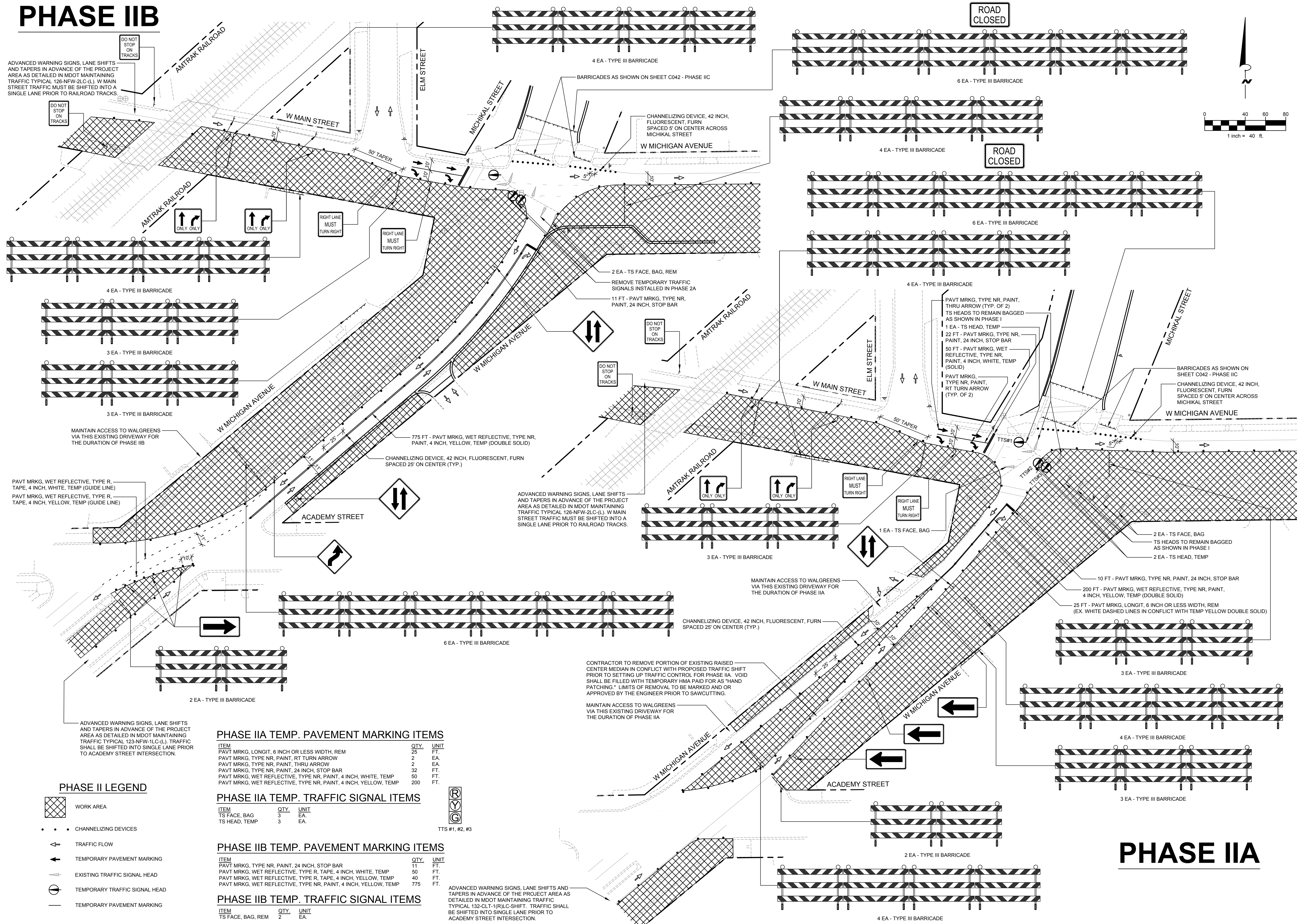
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70% SUBMITTAL	

REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 300'

MAINTAINING TRAFFIC
PHASE II -
OVERVIEW AND DETOUR
ROUTE

PHASE IIB

ADVANCED WARNING SIGNS, LANE SHIFTS AND TAPERS IN ADVANCE OF THE PROJECT AREA AS DETAILED IN MDOT MAINTAINING TRAFFIC TYPICAL 126-NFW-2LC-(L). W MAIN STREET TRAFFIC MUST BE SHIFTED INTO A SINGLE LANE PRIOR TO RAILROAD TRACKS.



PHASE IIA TEMP. PAVEMENT MARKING ITEMS

ITEM	QTY.	UNIT
PAVT MRKG. LONGIT. 6 INCH OR LESS WIDTH, REM	25	FT.
PAVT MRKG. TYPE NR, PAINT, RT TURN ARROW	2	EA.
PAVT MRKG. TYPE NR, PAINT, THRU ARROW	2	EA.
PAVT MRKG. TYPE NR, PAINT, 24 INCH, STOP BAR	32	FT.
PAVT MRKG. WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, WHITE, TEMP	50	FT.
PAVT MRKG. WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, YELLOW, TEMP	200	FT.

PHASE IIA TEMP. TRAFFIC SIGNAL ITEMS

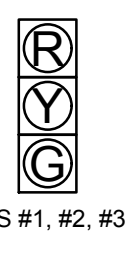
ITEM	QTY.	UNIT
TS FACE, BAG	3	EA.
TS HEAD, TEMP	3	EA.

PHASE IIB TEMP. PAVEMENT MARKING ITEMS

ITEM	QTY.	UNIT
PAVT MRKG. TYPE NR, PAINT, 24 INCH, STOP BAR	11	FT.
PAVT MRKG. WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP	50	FT.
PAVT MRKG. WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP	40	FT.
PAVT MRKG. WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, YELLOW, TEMP	775	FT.

PHASE IIB TEMP. TRAFFIC SIGNAL ITEMS

ITEM	QTY.	UNIT
TS FACE, BAG, REM	2	EA.



PHASE II LEGEND

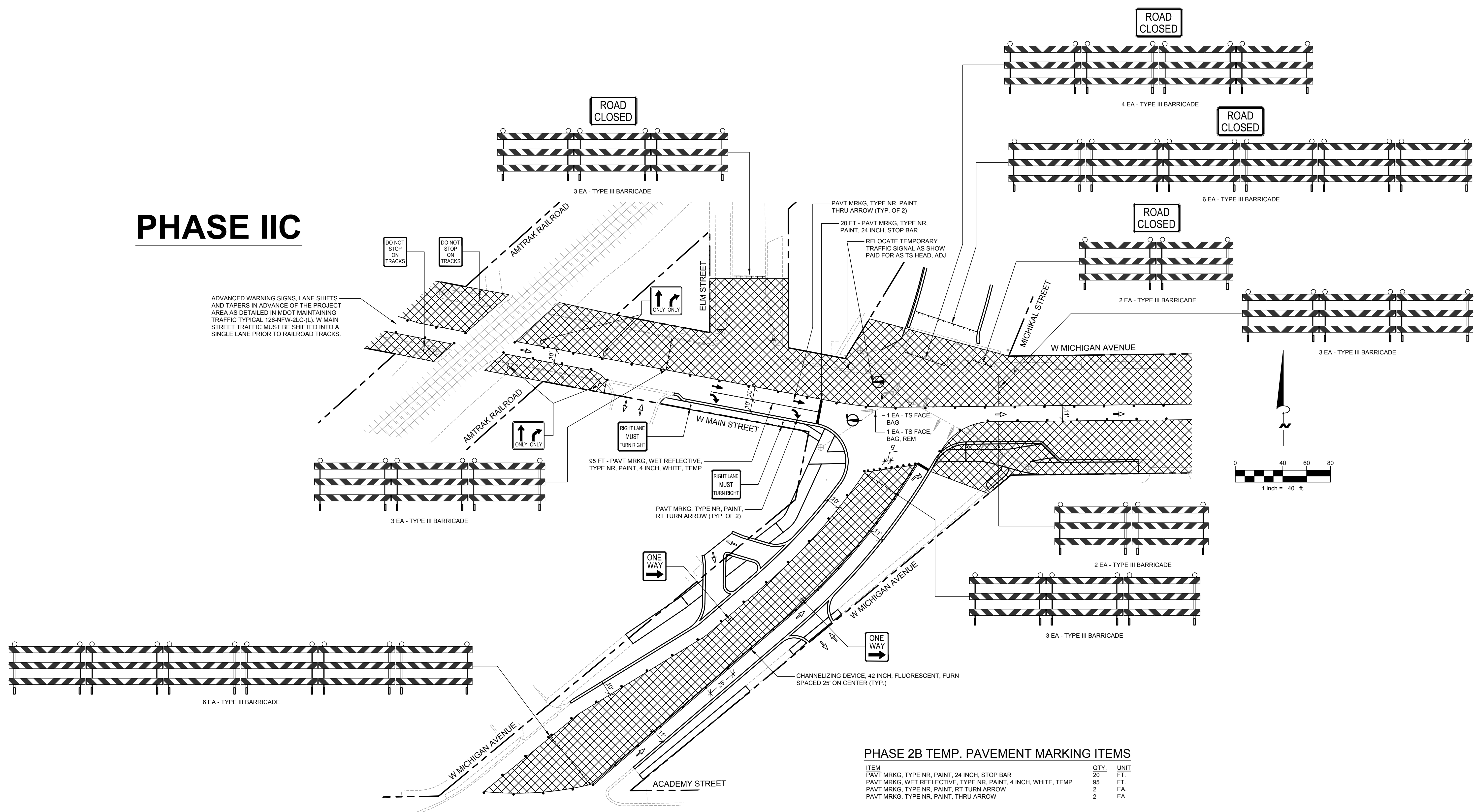
- WORK AREA
- CHANNELIZING DEVICES
- TRAFFIC FLOW
- TEMPORARY PAVEMENT MARKING
- EXISTING TRAFFIC SIGNAL HEAD
- TEMPORARY TRAFFIC SIGNAL HEAD
- TEMPORARY PAVEMENT MARKING

05/12/01/2023	PAD
ISSUED FOR BIDDING	
04/10/25/2023	PAD
90% SUBMITTAL	
01/08/30/2023	PAD
70% SUBMITTAL	

REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 40'

MAINTAINING TRAFFIC
PHASE II -
INTERSECTION
RECONSTRUCTION

PHASE IIC



ADVANCED WARNING SIGNS, LANE SHIFTS AND TAPERS IN ADVANCE OF THE PROJECT AREA AS DETAILED IN MDT MAINTAINING TRAFFIC TYPICAL 126-NFW-2LC-(L). W MAIN STREET TRAFFIC MUST BE SHIFTED INTO A SINGLE LANE PRIOR TO RAILROAD TRACKS.

DO NOT STOP ON TRACKS

DO NOT STOP ON TRACKS

ROAD CLOSED
3 EA - TYPE III BARRICADE

ROAD CLOSED

4 EA - TYPE III BARRICADE

ROAD CLOSED

6 EA - TYPE III BARRICADE

ROAD CLOSED

2 EA - TYPE III BARRICADE

3 EA - TYPE III BARRICADE

3 EA - TYPE III BARRICADE

RIGHT LANE MUST TURN RIGHT

RIGHT LANE MUST TURN RIGHT

ONE WAY

ONE WAY

6 EA - TYPE III BARRICADE

2 EA - TYPE III BARRICADE

3 EA - TYPE III BARRICADE

CHANNELIZING DEVICE, 42 INCH, FLUORESCENT, FURN SPACED 25' ON CENTER (TYP.)

PAVT MRKG, TYPE NR, PAINT, THRU ARROW (TYP. OF 2)

20 FT - PAVT MRKG, TYPE NR, PAINT, 24 INCH, STOP BAR

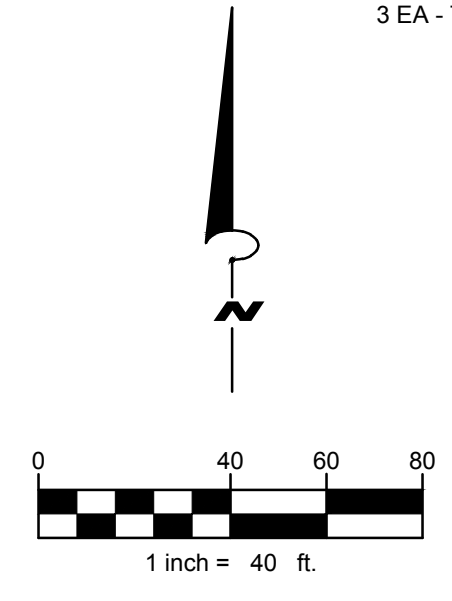
RELOCATE TEMPORARY TRAFFIC SIGNAL AS SHOW PAID FOR AS TS HEAD, ADJ

95 FT - PAVT MRKG, WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, WHITE, TEMP

PAVT MRKG, TYPE NR, PAINT, RT TURN ARROW (TYP. OF 2)

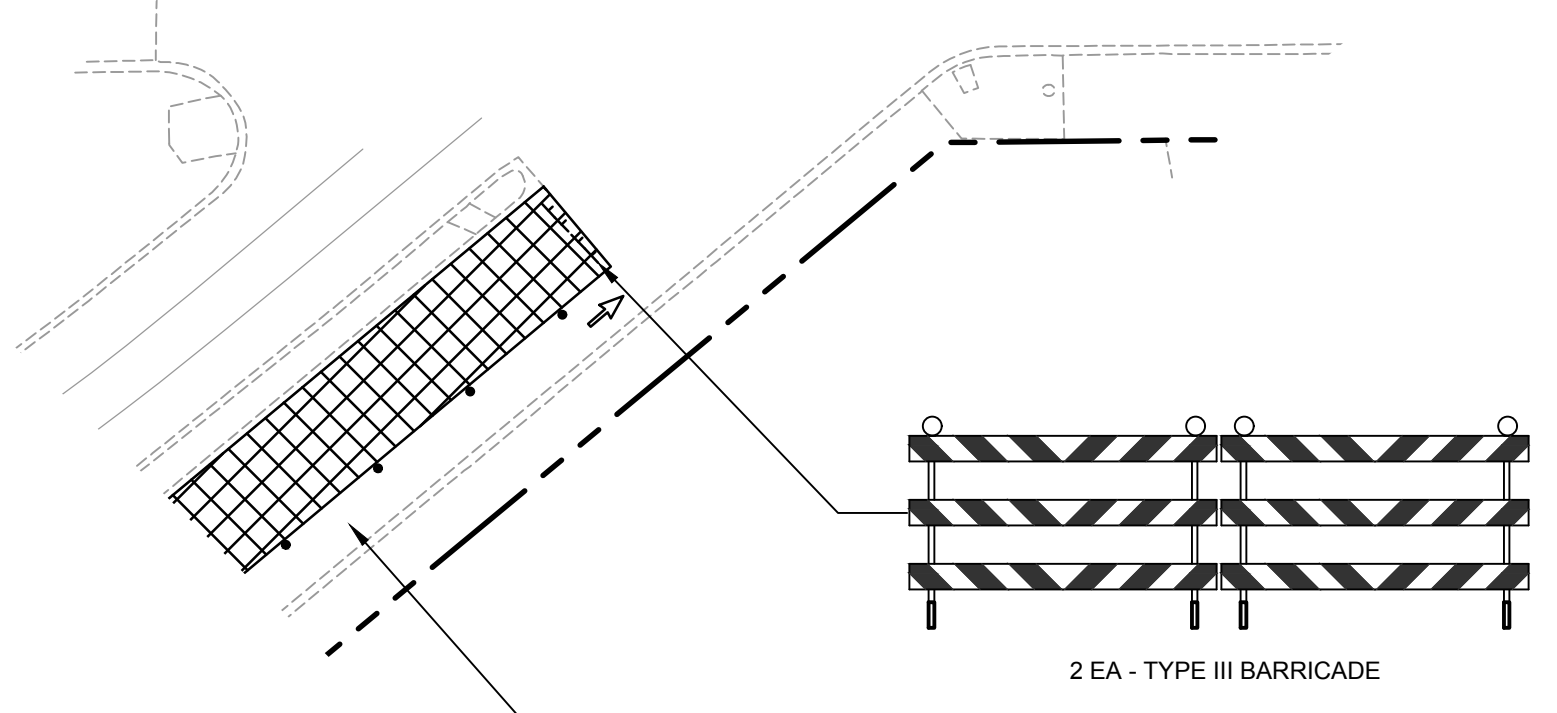
1 EA - TS FACE, BAG

1 EA - TS FACE, BAG, REM



PHASE 2 LEGEND

- WORK AREA
- CHANNELIZING DEVICES
- TRAFFIC FLOW
- TEMPORARY PAVEMENT MARKING
- EXISTING TRAFFIC SIGNAL HEAD
- TEMPORARY TRAFFIC SIGNAL HEAD
- TEMPORARY PAVEMENT MARKING



PHASE 2B TEMP. PAVEMENT MARKING ITEMS

ITEM	QTY.	UNIT
PAVT MRKG, TYPE NR, PAINT, 24 INCH, STOP BAR	20	FT.
PAVT MRKG, WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, WHITE, TEMP	95	FT.
PAVT MRKG, TYPE NR, PAINT, RT TURN ARROW	2	EA.
PAVT MRKG, TYPE NR, PAINT, THRU ARROW	2	EA.

PHASE 2B TEMP. TRAFFIC SIGNAL ITEMS

ITEM	QTY.	UNIT
TS HEAD, ADJ	1	EA.
TS FACE, BAG	1	EA.
TS FACE, BAG, REM	1	EA.

W+
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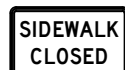





PHILIP A. DOORLAG
6201067363
PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 40'

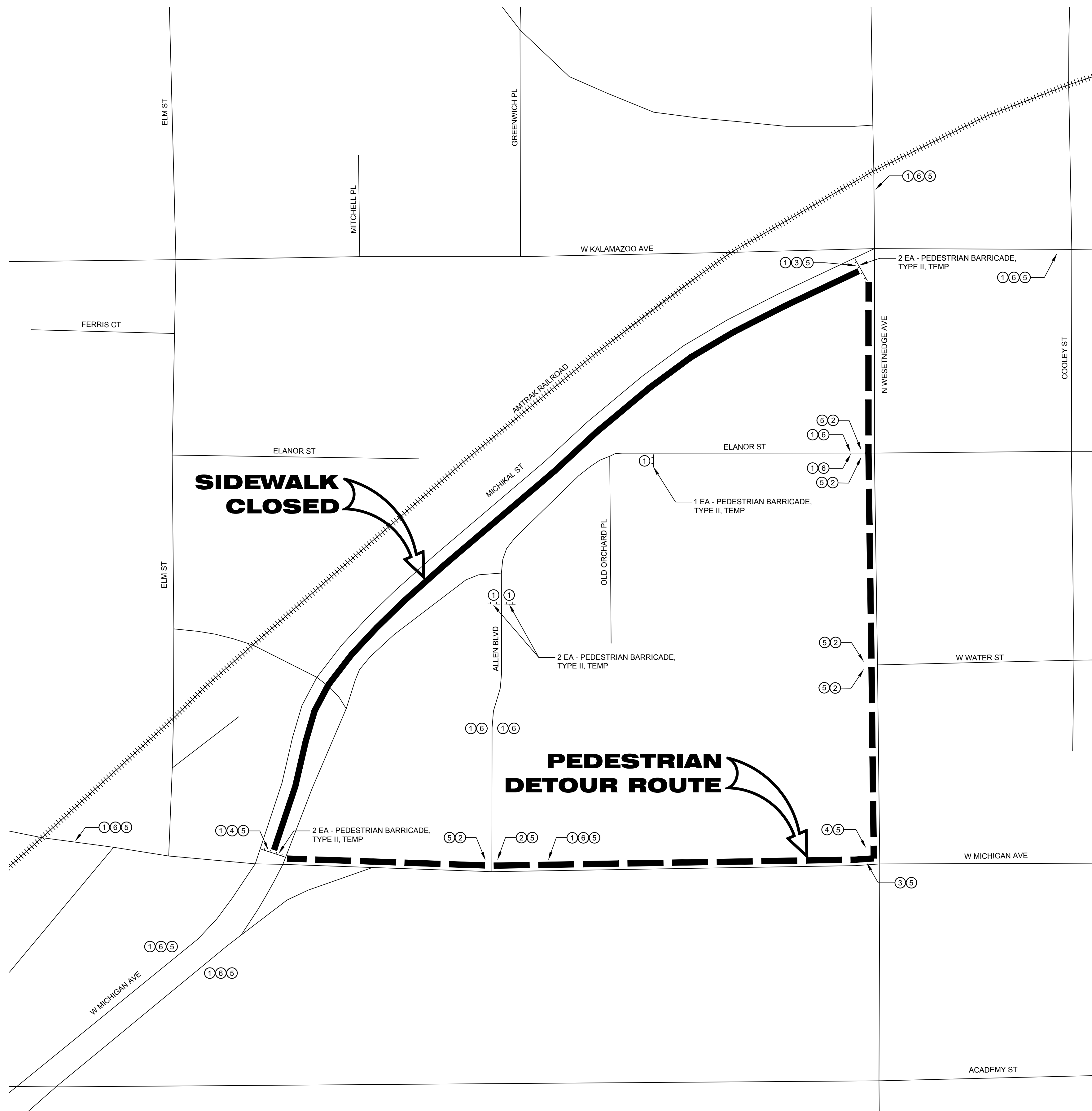
MAINTAINING TRAFFIC
**PHASE II -
INTERSECTION
RECONSTRUCTION**

LEGEND					
QTY.	SIGN DESIGNATION	DESCRIPTION	SIZE	AREA	
①	15 EA	R9-9	 SIDEWALK CLOSED	30 INCH x 18 INCH	56.25 SFT
②	6 EA	M4-9a	 DETOUR	30 INCH x 24 INCH	30 SFT
③	2 EA	M4-9a	 DETOUR	30 INCH x 24 INCH	10 SFT
④	2 EA	M4-9a	 DETOUR	30 INCH x 24 INCH	10 SFT
⑤	16 EA	*W16-8P	 MICHIKAL ST	36 INCH x 12 INCH	48 SFT
⑥	10 EA	*W16-8P	 AHEAD	18 INCH x 12 INCH	15 SFT

TOTAL AREA = 189.25 SFT

NOTE: PEDESTRIAN DETOUR ROUTE SHOWN CORRESPONDS TO MAINTAINING TRAFFIC PHASE I AND SHOULD BE IMPLEMENTED AND MAINTAINED FOR THE DURATION OF PHASE I - MICHIKAL STREET RECONSTRUCTION.

* DENOTES SPECIAL SIGN



PHASE I PEDESTRIAN DETOUR
SCALE: 1" = 100'

QUANTITIES THIS SHEET	
ITEM	QTY.
Pedestrian Type II Barricade, Temp	7 Ea
Sign, Type B, Temp, Prismatic, Furn	125 Sft
Sign, Type B, Temp, Prismatic, Oper	125 Sft
Sign, Type B, Temp, Prismatic, Spec, Furn	50 Sft
Sign, Type B, Temp, Prismatic, Spec, Oper	50 Sft



WIGHTMAN
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415 E STOCKBRIDGE AVENUE
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70% SUBMITTAL	

REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 100'

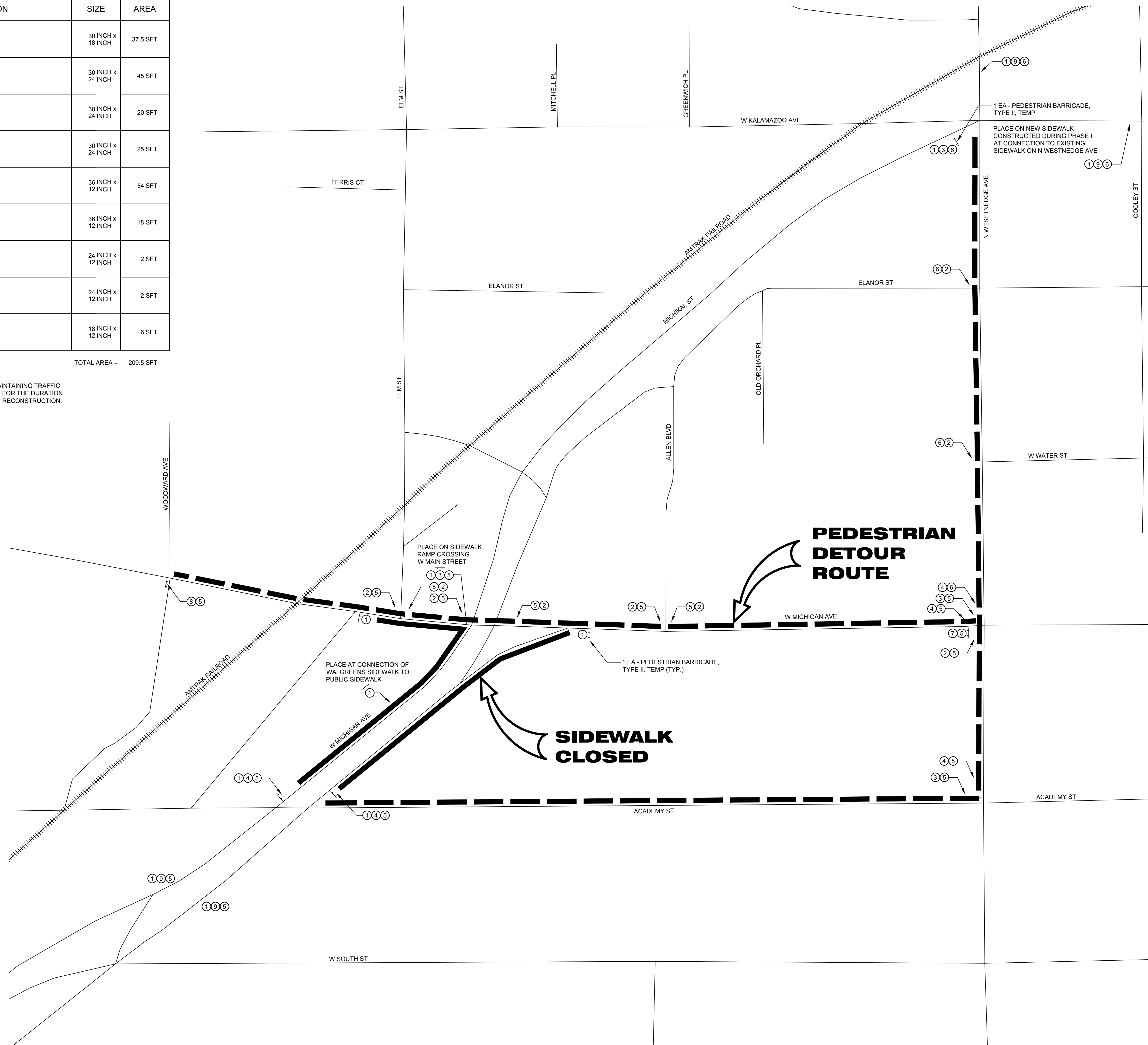
PEDESTRIAN DETOUR
PHASE I -
MICHIKAL STREET
RECONSTRUCTION

LEGEND				
QTY.	SIGN DESIGNATION	DESCRIPTION	SIZE	AREA
①	10 EA	R9-9	SIDEWALK CLOSED	30 INCH x 18 INCH 37.5 SFT
②	9 EA	M4-9a	DETOUR	30 INCH x 24 INCH 45 SFT
③	4 EA	M4-9a	DETOUR	30 INCH x 24 INCH 20 SFT
④	5 EA	M4-9a	DETOUR	30 INCH x 24 INCH 25 SFT
⑤	18 EA	*W16-8P	W MICHIGAN AVE	36 INCH x 12 INCH 54 SFT
⑥	6 EA	*W16-8P	MICHKAL ST	36 INCH x 12 INCH 18 SFT
⑦	1 EA	R9-11R	BARRICADE	24 INCH x 12 INCH 2 SFT
⑧	1 EA	R9-11L	BARRICADE	24 INCH x 12 INCH 2 SFT
⑨	4 EA	*W16-8P	AHEAD	18 INCH x 12 INCH 6 SFT

TOTAL AREA = 209.5 SFT

NOTE: PEDESTRIAN DETOUR ROUTE SHOWN CORRESPONDS TO MAINTAINING TRAFFIC PHASE IIA AND IIB AND SHOULD BE IMPLEMENTED AND MAINTAINED FOR THE DURATION OF PHASE IIA AND IIB CONSTRUCTION - SOUTH SIDE INTERSECTION RECONSTRUCTION.

* DENOTES SPECIAL SIGN



QUANTITIES THIS SHEET	
ITEM	QTY.
Pedestrian Type II Barricade, Temp	9 Ea
Sign, Type B, Temp, Prismatic, Furn	135 Sft
Sign, Type B, Temp, Prismatic, Oper	135 Sft
Sign, Type B, Temp, Prismatic, Spec, Furn	80 Sft
Sign, Type B, Temp, Prismatic, Spec, Oper	80 Sft

W+
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433 E. RANSOM ST.
KALAMAZOO, MI. 49007
269.327.3532
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PROJECT NAME:
**STREETS FOR ALL:
MICHKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

REVISIONS
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 DATE: DECEMBER, 2023
 SCALE: 1" = 100'

PEDESTRIAN DETOUR
 PHASE IIA -
 INTERSECTION
 RECONSTRUCTION

JOB No. 224022
C044
 OF 69

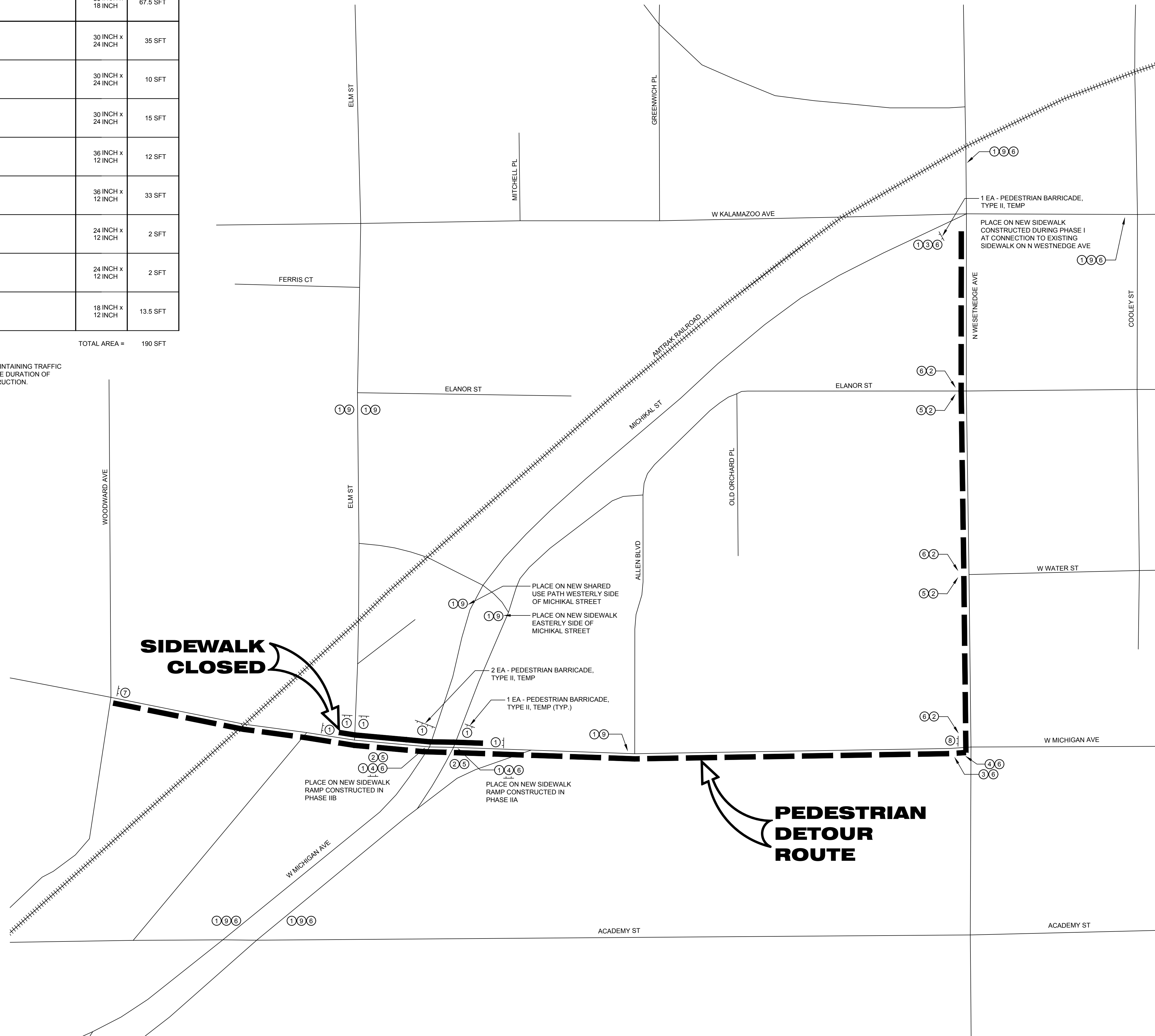
PHASE IIA PEDESTRIAN DETOUR
 SCALE: 1" = 100'

LEGEND				
QTY.	SIGN DESIGNATION	DESCRIPTION	SIZE	AREA
①	18 EA	R9-9	SIDEWALK CLOSED	30 INCH x 18 INCH 67.5 SFT
②	7 EA	M4-9a	DETOUR	30 INCH x 24 INCH 35 SFT
③	2 EA	M4-9a	DETOUR	30 INCH x 24 INCH 10 SFT
④	3 EA	M4-9a	DETOUR	30 INCH x 24 INCH 15 SFT
⑤	4 EA	*W16-8P	W MICHIGAN AVE	36 INCH x 12 INCH 12 SFT
⑥	11 EA	*W16-8P	MICHIKAL ST	36 INCH x 12 INCH 33 SFT
⑦	1 EA	R9-11R	SIDEWALK CLOSED	24 INCH x 12 INCH 2 SFT
⑧	1 EA	R9-11L	SIDEWALK CLOSED	24 INCH x 12 INCH 2 SFT
⑨	9 EA	*W16-8P	AHEAD	18 INCH x 12 INCH 13.5 SFT

TOTAL AREA = 190 SFT

NOTE: PEDESTRIAN DETOUR ROUTE SHOWN CORRESPONDS TO MAINTAINING TRAFFIC PHASE IIC AND SHOULD BE IMPLEMENTED AND MAINTAINED FOR THE DURATION OF PHASE IIC CONSTRUCTION - NORTH SIDE INTERSECTION RECONSTRUCTION.

* DENOTES SPECIAL SIGN



PHASE IIB PEDESTRIAN DETOUR
SCALE: 1" = 100'

QUANTITIES THIS SHEET	
ITEM	QTY.
Pedestrian Type II Barricade, Temp	12 Ea
Sign, Type B, Temp, Prismatic, Furn	135 Sft
Sign, Type B, Temp, Prismatic, Oper	135 Sft
Sign, Type B, Temp, Prismatic, Spec, Furn	60 Sft
Sign, Type B, Temp, Prismatic, Spec, Oper	60 Sft

W+
WIGHTMAN
433 E. RANSOM ST.
KALAMAZOO, MI. 49007
269.327.3532
www.gowightman.com

PHILIP A. DOORLAG
6201067363
PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

05/12/2023 PAD
ISSUED FOR BIDDING
04/10/2023 PAD
90% SUBMITTAL
01/08/2023 PAD
70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 100'

PEDESTRIAN DETOUR
PHASE IIB -
INTERSECTION
RECONSTRUCTION

QUANTITIES THIS SHEET

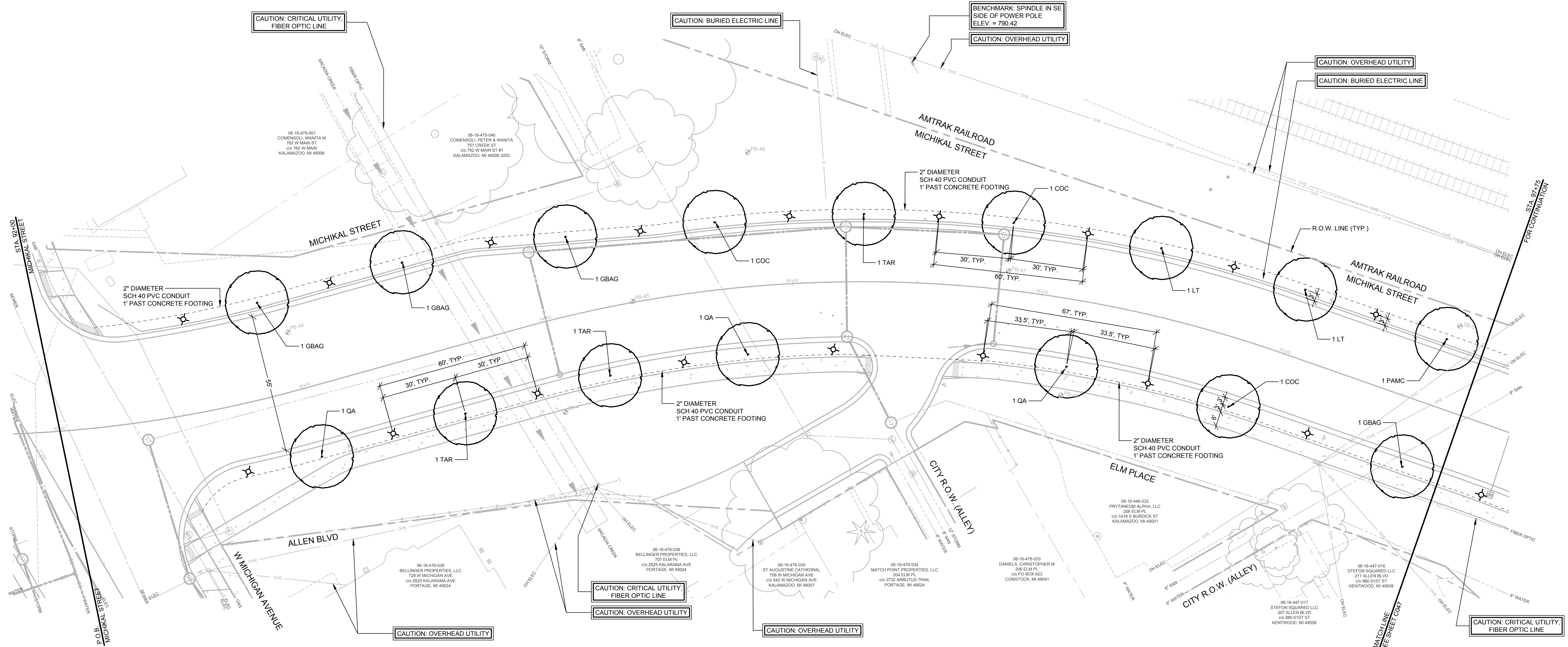
ITEM	QTY.
Conduit, DB, 1, 2 inch	1,085 Ft
Celtis occidentalis 'Chicagoland', 4 inch	3 Ea
Ginkgo biloba 'Autumn Gold', 4 inch	4 Ea
Liriodendron tulipifera, 4 inch	2 Ea
Platanus acerifolia 'Morton Circle', 4 inch	1 Ea
Quercus alba, 4 inch	3 Ea
Tilia americana 'Redmond', 4 inch	3 Ea

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 6201067363

PROJECT NAME:
**STREETS FOR ALL:
 MICHIKAL
 IMPROVEMENTS**

**CITY OF
 KALAMAZOO**
 415 E STOCKBRIDGE AVENUE
 KALAMAZOO, MI 49001



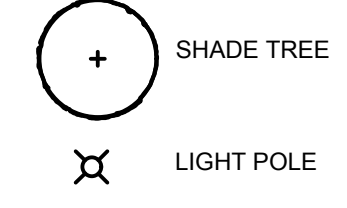
05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

REVISIONS
DATE: DECEMBER, 2023
 SCALE: 1" = 20'

NOTES

1. LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO UTILITIES. CONTRACTOR MUST CALL 811 FOR UTILITY LOCATIONS THREE DAYS PRIOR TO DIGGING.
2. SEE SECTION 815 AND 917 OF THE 2020 MDT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
3. ALL LANDSCAPE BEDS ADJACENT TO LAWN AREAS SHALL HAVE A SPADED EDGE.
4. LANDSCAPE ARCHITECT TO REVIEW ALL TREES EITHER IN THE NURSERIES OR VIA PHOTOGRAPHS OF EACH PLANT. CONTRACTOR TO COORDINATE.
5. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AREAS OF POOR DRAINAGE OR OTHER UNUSUAL SUBSURFACE CONDITIONS ARE ENCOUNTERED DURING EXCAVATION FOR PLANTING PITS

LEGEND



**LANDSCAPE PLAN -
 BASE BID -
 MICHIKAL -
 STA. 92+00 (P.O.B.) TO STA.
 97+75**

JOB No. 224022
C046
 OF 69

QUANTITIES THIS SHEET

ITEM	QTY.
Conduit, DB, 1, 2 inch	1,000 Ft
Corylus colurna, 4 inch	3 Ea
Platanus acerifolia 'Morton Circle', 4 inch	2 Ea
Quercus muhlenbergii, 4 inch	3 Ea
Tilia americana 'Redmond', 4 inch	2 Ea
Ulmus americana 'Valley Forge', 4 inch	2 Ea

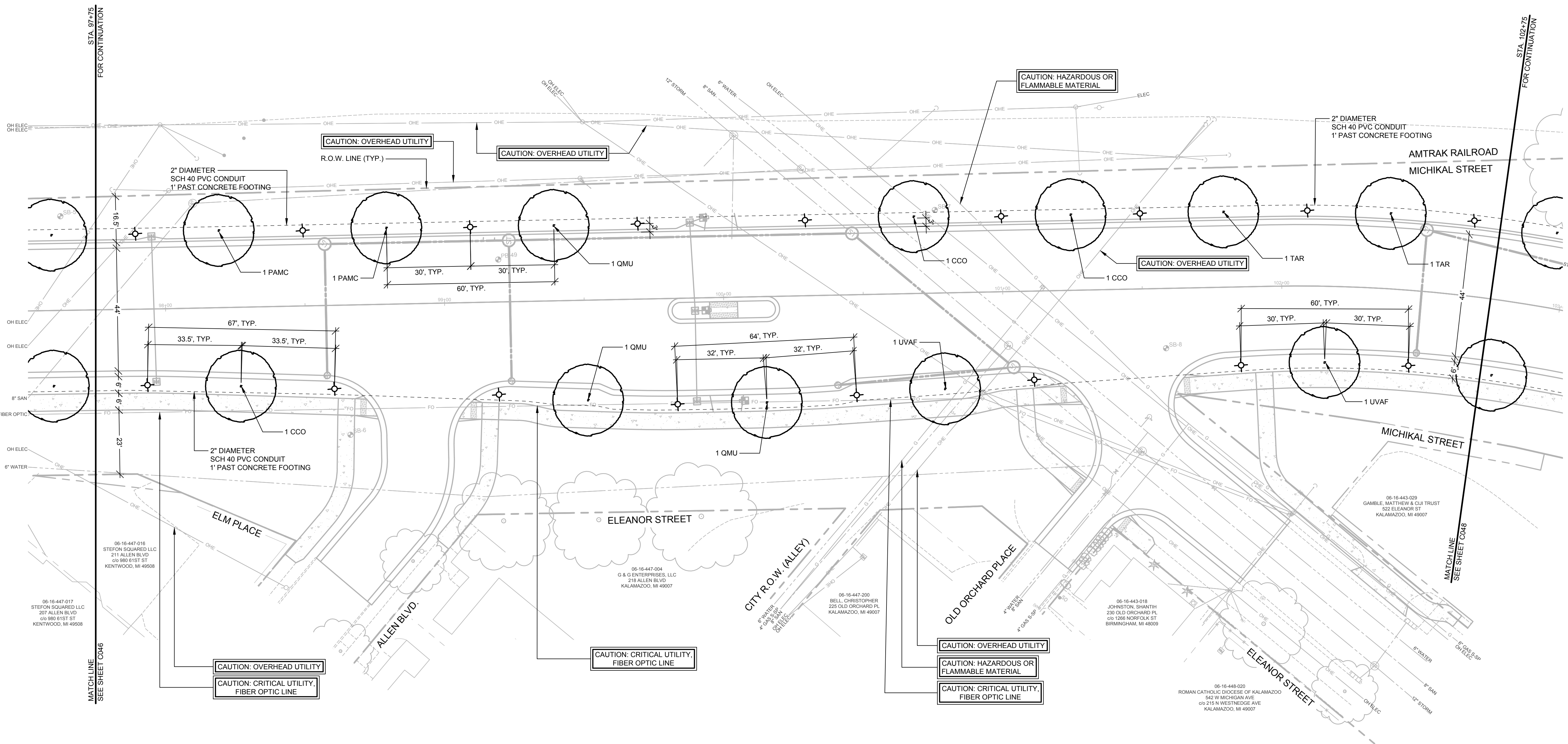
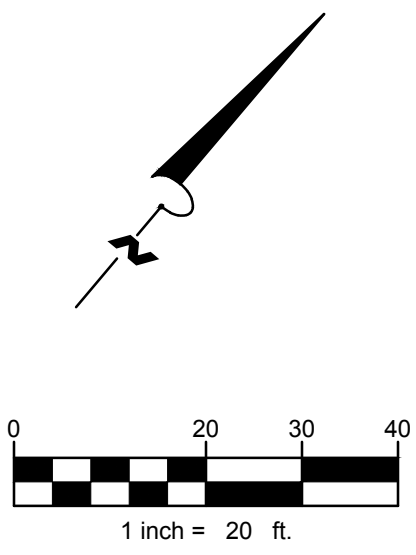


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PHILIP A. DOORLAG
6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

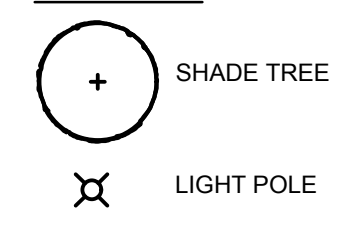
**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



NOTES

1. LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO UTILITIES. CONTRACTOR MUST CALL 811 FOR UTILITY LOCATIONS THREE DAYS PRIOR TO DIGGING.
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5. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AREAS OF POOR DRAINAGE OR OTHER UNUSUAL SUBSURFACE CONDITIONS ARE ENCOUNTERED DURING EXCAVATION FOR PLANTING PITS

LEGEND



05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 20'

LANDSCAPE PLAN -
BASE BID -
MICHIKAL -
STA. 97+75 TO STA. 102+75

JOB No. 224022
C047
OF 69

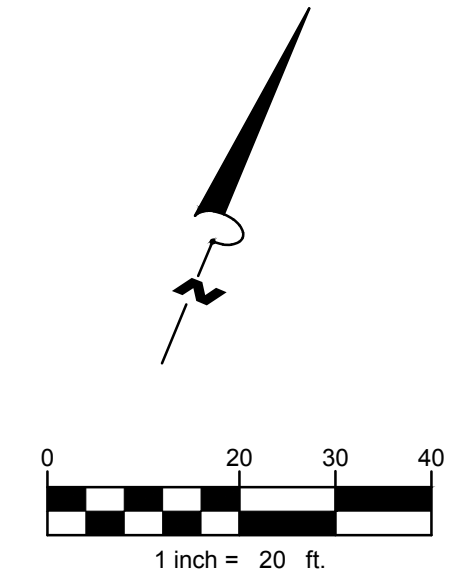
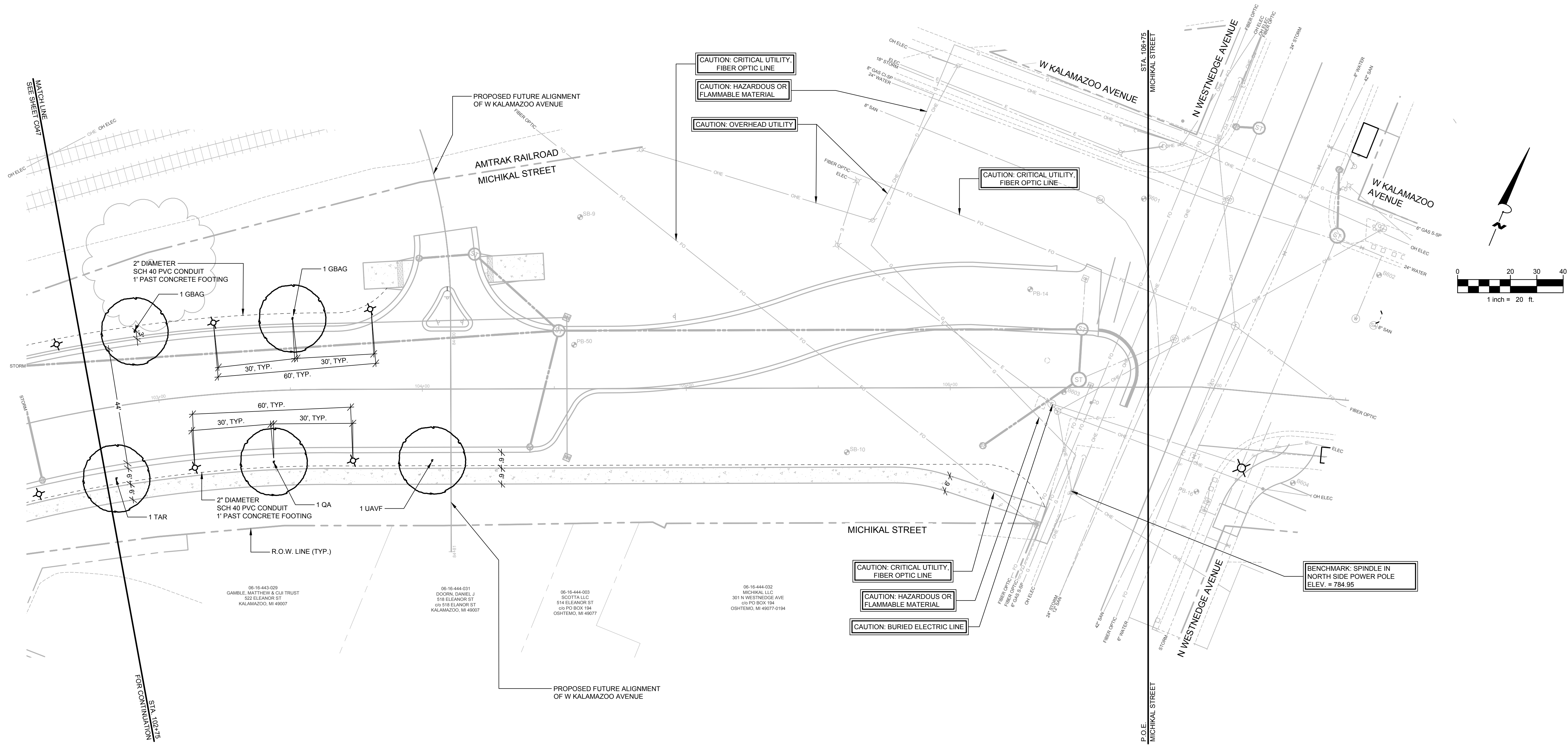
QUANTITIES THIS SHEET	
ITEM	QTY.
Conduit, DB, 1, 2 inch	485 Ft
Ginkgo biloba 'Autumn Gold', 4 inch	2 Ea
Quercus alba, 4 inch	1 Ea
Tilia americana 'Redmond', 4 inch	1 Ea
Ulmus americana 'Valley Forge', 4 inch	1 Ea

W+
WIGHTMAN
433 E. RANSOM ST.
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PROJECT NAME:
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**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



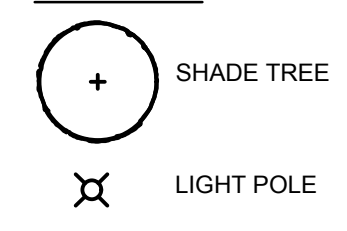
CAUTION: CRITICAL UTILITY, FIBER OPTIC LINE
CAUTION: HAZARDOUS OR FLAMMABLE MATERIAL
CAUTION: OVERHEAD UTILITY
CAUTION: CRITICAL UTILITY, FIBER OPTIC LINE
CAUTION: CRITICAL UTILITY, FIBER OPTIC LINE
CAUTION: HAZARDOUS OR FLAMMABLE MATERIAL
CAUTION: BURIED ELECTRIC LINE
BENCHMARK: SPINDLE IN NORTH SIDE POWER POLE ELEV. = 784.95

06-16-443-029 GAMBILE, MATTHEW & CUI TRUST
522 ELEANOR ST
KALAMAZOO, MI 49007
06-16-444-031 DOORIN, DANIEL J
518 ELEANOR ST
626 518 ELEANOR ST
KALAMAZOO, MI 49007
06-16-444-003 SCOTTLA LLC
514 ELEANOR ST
626 PO BOX 194
OSHTEMO, MI 49077
06-16-444-032 MICHIKAL LLC
301 N WESTLEDGE AVE
626 PO BOX 194
OSHTEMO, MI 49077-0194

NOTES

- LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO UTILITIES CONTRACTOR MUST CALL 811 FOR UTILITY LOCATIONS THREE DAYS PRIOR TO DIGGING..
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LEGEND



05 12/01/2023	PAD
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70% SUBMITTAL	

REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 20'

LANDSCAPE PLAN -
BASE BID -
MICHIKAL -
STA. 102+75 TO STA. 106+75
(P.O.E.)

JOB No. 224022
C048
OF 69

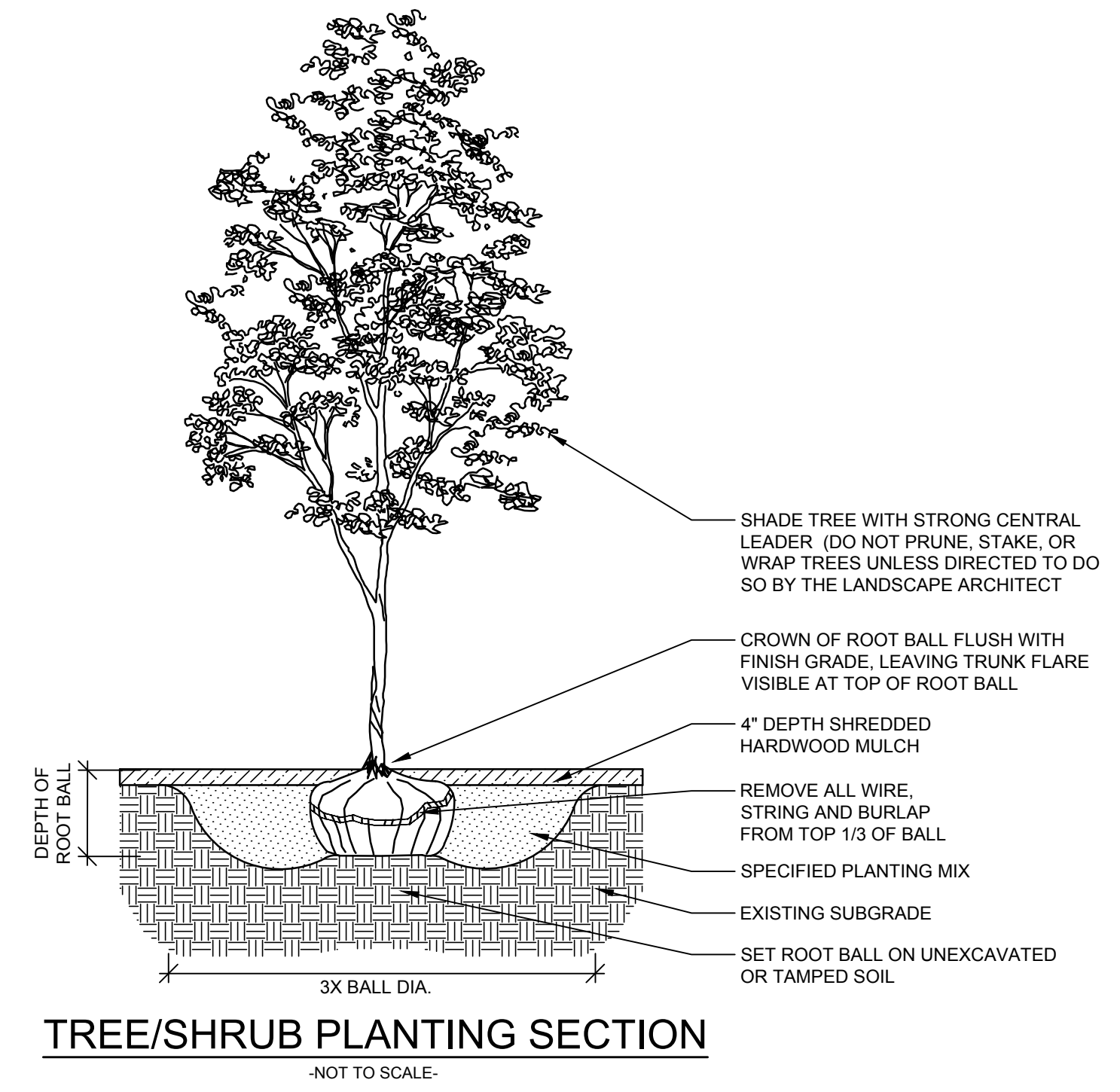
QUANTITIES THIS SHEET	
ITEM	QTY.
Site Preparation, Max	5,000 LSUM
Watering and Cultivating, First Season, Min	5,000 LSUM

W+
WIGHTMAN
433 E. RANSOM ST.
KALAMAZOO, MI. 49007
269.327.3532
www.gowightman.com

PLANT LIST - BASE BID

NOTE: QUANTITIES ON THE PLANT LIST ARE PROVIDED FOR INFORMATION ONLY. PLANT QUANTITIES UNDER THE CONTRACT ARE INDICATED ON THE PLANS. IN THE EVENT OF ANY DISCREPANCIES, THE CONTRACT SHALL BE BASED ON THE QUANTITIES SHOWN ON THE PLANS.

CODE	BOTANICAL NAME	COMMON NAME	QTY	CAL	HT	ROOT	REMARKS
SHADE TREES							
COC	CELTIS OCCIDENTALIS 'CHICAGOLAND'	CHICAGOLAND COMMON HACKBERRY	3	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
CCO	CORYLUS COLURNA	TURKISH FILBERT	3	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
GBAG	GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD GINKGO	6	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
LT	LIRIODENDRON TULIPIFERA	TULIPTREE	2	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
PAMC	PLATANUS X ACERIFOLIA 'MORTON CIRCLE'	EXCLAMATION! LONDON PLANETREE	3	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
QA	QUERCUS ALBA	WHITE OAK	4	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
QMU	QUERCUS MUEHLENBERGII	CHINKAPIN OAK	3	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
TAR	TILIA AMERICANA 'REDMOND'	REDMOND AMERICAN LINDEN	6	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
UAVF	ULMUS AMERICANA 'VALLEY FORGE'	VALLEY FORGE AMERICAN ELM	3	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT



TREE/SHRUB PLANTING SECTION
NOT TO SCALE.

PHILIP A. DOORLAG
6201067363

PROJECT NAME:
**STREETS FOR ALL:
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IMPROVEMENTS**

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04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

REVISIONS
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 DATE: DECEMBER, 2023
 SCALE: NONE

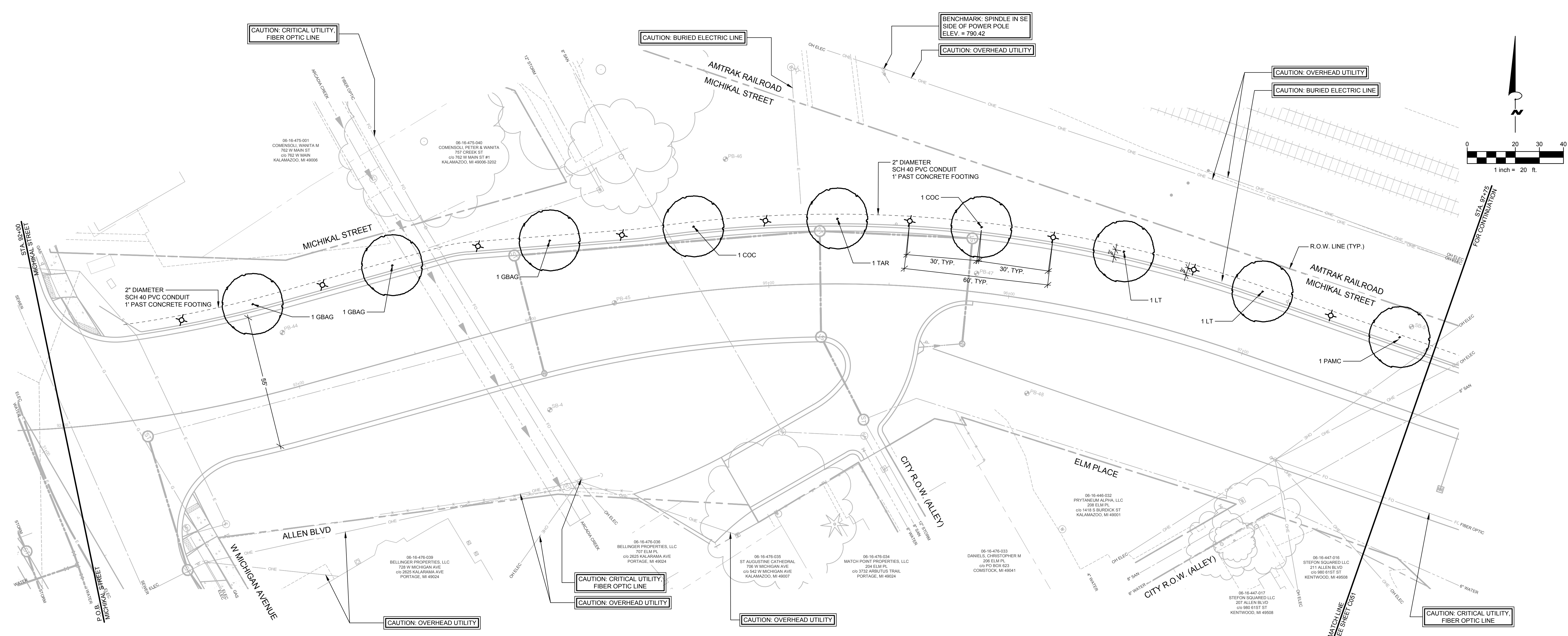
LANDSCAPE PLAN -
BASE BID -
MICHIKAL -
DETAILS AND PLANT LIST

QUANTITIES THIS SHEET

ITEM	QTY.
Conduit, DB, 1, 2 inch	570 Ft
Celtis occidentalis 'Chicagoland', 4 inch	2 Ea
Ginkgo biloba 'Autumn Gold', 4 inch	3 Ea
Liriodendron tulipifera, 4 inch	2 Ea
Platanus acerifolia 'Morton Circle', 4 inch	1 Ea
Tilia americana 'Redmond', 4 inch	1 Ea

W+
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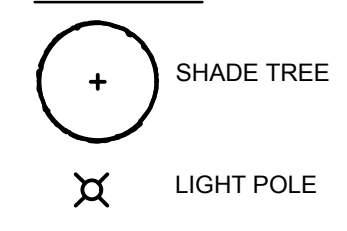
PHILIP A. DOORLAG
 6201067363
 PROJECT NAME:
**STREETS FOR ALL:
 MICHIKAL
 IMPROVEMENTS**
 CITY OF
KALAMAZOO
 415 E STOCKBRIDGE AVENUE
 KALAMAZOO, MI 49001



NOTES

- LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO UTILITIES CONTRACTOR MUST CALL 811 FOR UTILITY LOCATIONS THREE DAYS PRIOR TO DIGGING..
- SEE SECTION 815 AND 917 OF THE 2020 MDT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
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- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AREAS OF POOR DRAINAGE OR OTHER UNUSUAL SUBSURFACE CONDITIONS ARE ENCOUNTERED DURING EXCAVATION FOR PLANTING PITS

LEGEND



05 12/01/2023 PAD
 ISSUED FOR BIDDING
 04 10/25/2023 PAD
 90% SUBMITTAL
 01 08/30/2023 PAD
 70% SUBMITTAL

REVISIONS

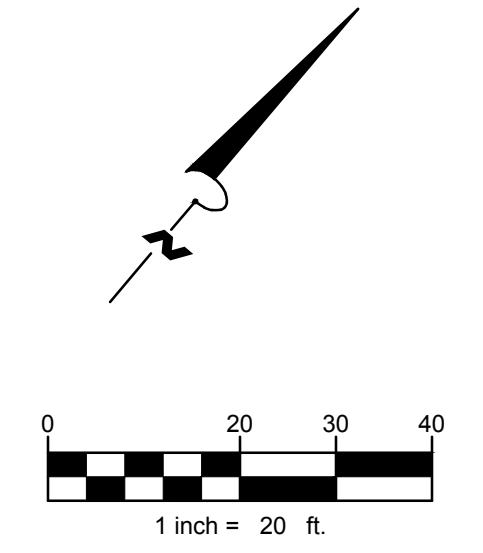
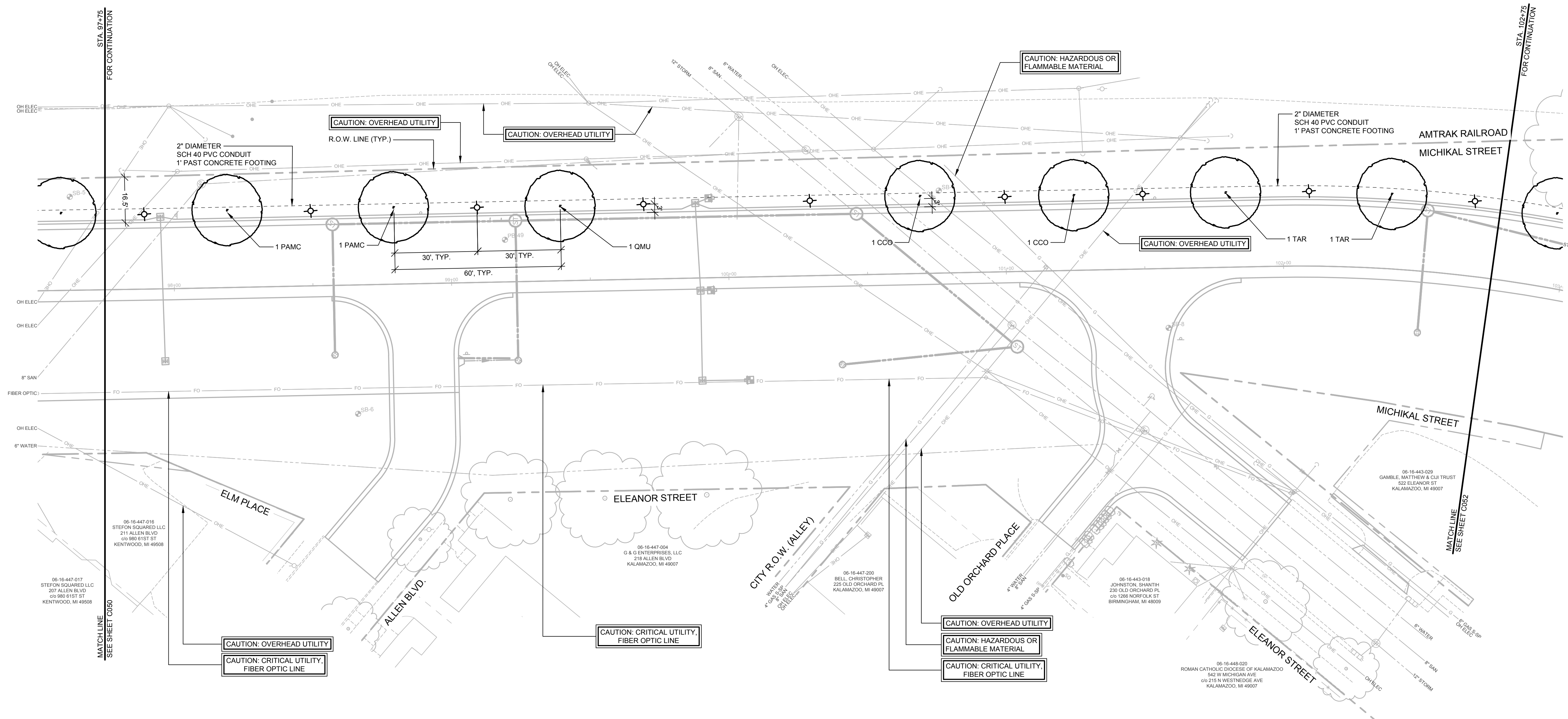
DATE: DECEMBER, 2023
 SCALE: 1" = 20'

LANDSCAPE PLAN -
 ALTERNATE A -
 MICHIKAL -
 STA. 92+00 (P.O.B.) TO STA.
 97+75

QUANTITIES THIS SHEET	
ITEM	QTY.
Conduit, DB, 1, 2 inch	510 Ft
Corylus columna, 4 inch	2 Ea
Platanus acerifolia 'Morton Circle', 4 inch	2 Ea
Quercus muehlenbergii, 4 inch	1 Ea
Tilia americana 'Redmond', 4 inch	2 Ea

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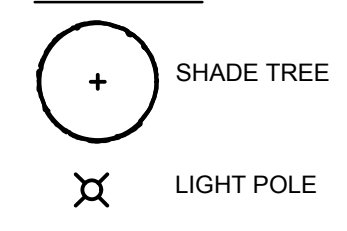
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LEGEND



05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	
REVISIONS	
<small> 1. DATE: DECEMBER, 2023 2. SCALE: 1" = 20' 3. THE REPRODUCTION, COPYING OR OTHER USE OF THIS DRAWING WITHOUT WRITTEN CONSENT IS PROHIBITED. © 2023 WIGHTMAN & ASSOCIATES, INC. </small>	

LANDSCAPE PLAN -
 ALTERNATE A -
 MICHIKAL -
 STA. 97+75 TO STA. 102+75

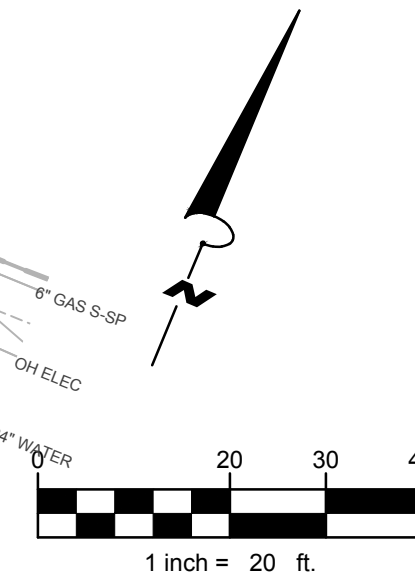
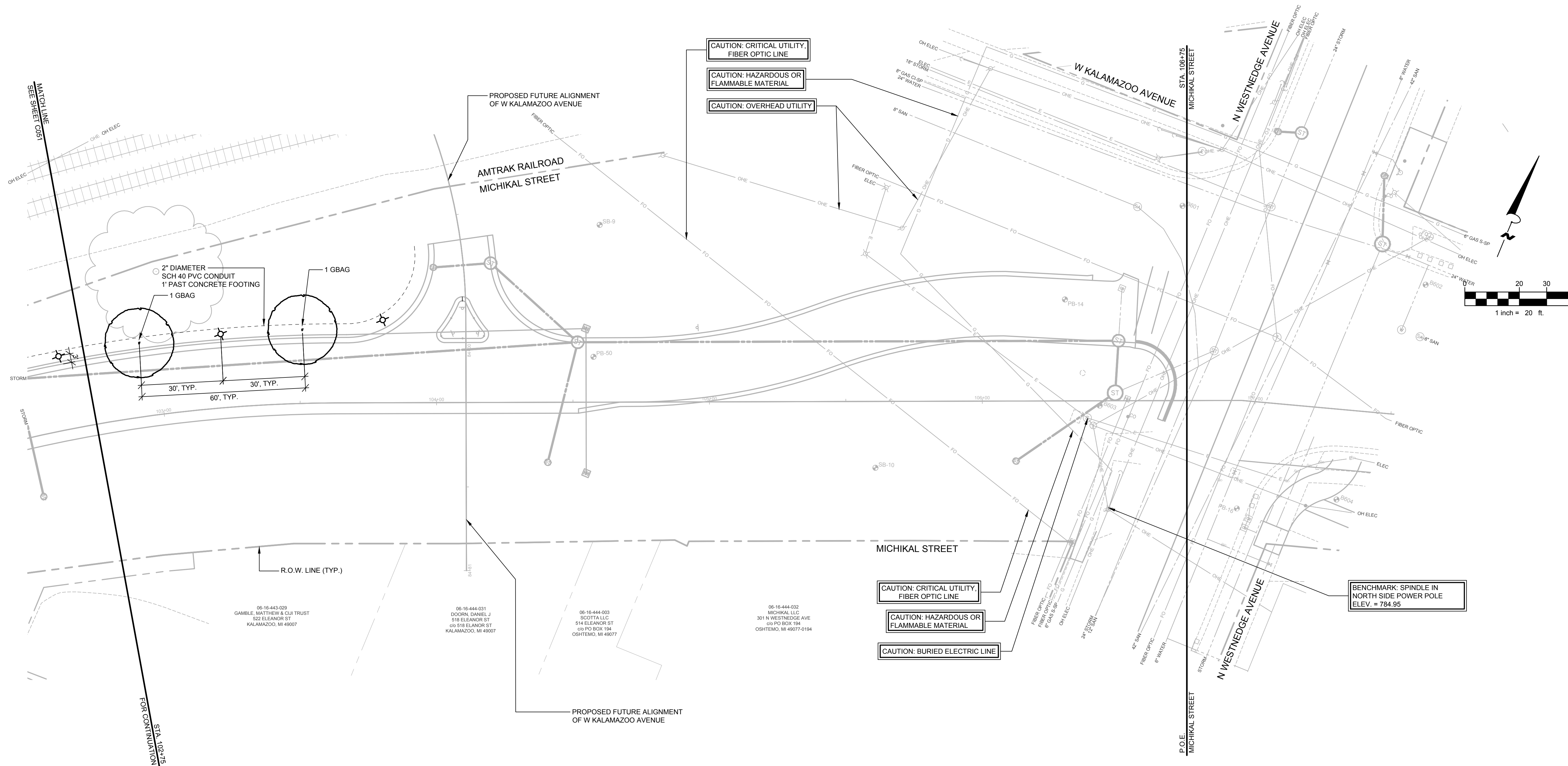
QUANTITIES THIS SHEET	
ITEM	QTY.
Conduit, DB, 1, 2 inch	120 Ft
Ginkgo biloba 'Autumn Gold', 4 inch	2 Ea

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6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



- CAUTION: CRITICAL UTILITY, FIBER OPTIC LINE
- CAUTION: HAZARDOUS OR FLAMMABLE MATERIAL
- CAUTION: OVERHEAD UTILITY
- CAUTION: CRITICAL UTILITY, FIBER OPTIC LINE
- CAUTION: HAZARDOUS OR FLAMMABLE MATERIAL
- CAUTION: BURIED ELECTRIC LINE
- BENCHMARK: SPINDLE IN NORTH SIDE POWER POLE ELEV. = 784.95

NOTES

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LEGEND

- SHADE TREE
- LIGHT POLE

05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 20'

LANDSCAPE PLAN -
ALTERNATE A -
MICHIKAL -
STA. 102+75 TO STA. 106+75
(P.O.E.)

QUANTITIES THIS SHEET	
ITEM	QTY.
Site Preparation, Max	5,000 LSUM
Watering and Cultivating, First Season, Min	5,000 LSUM

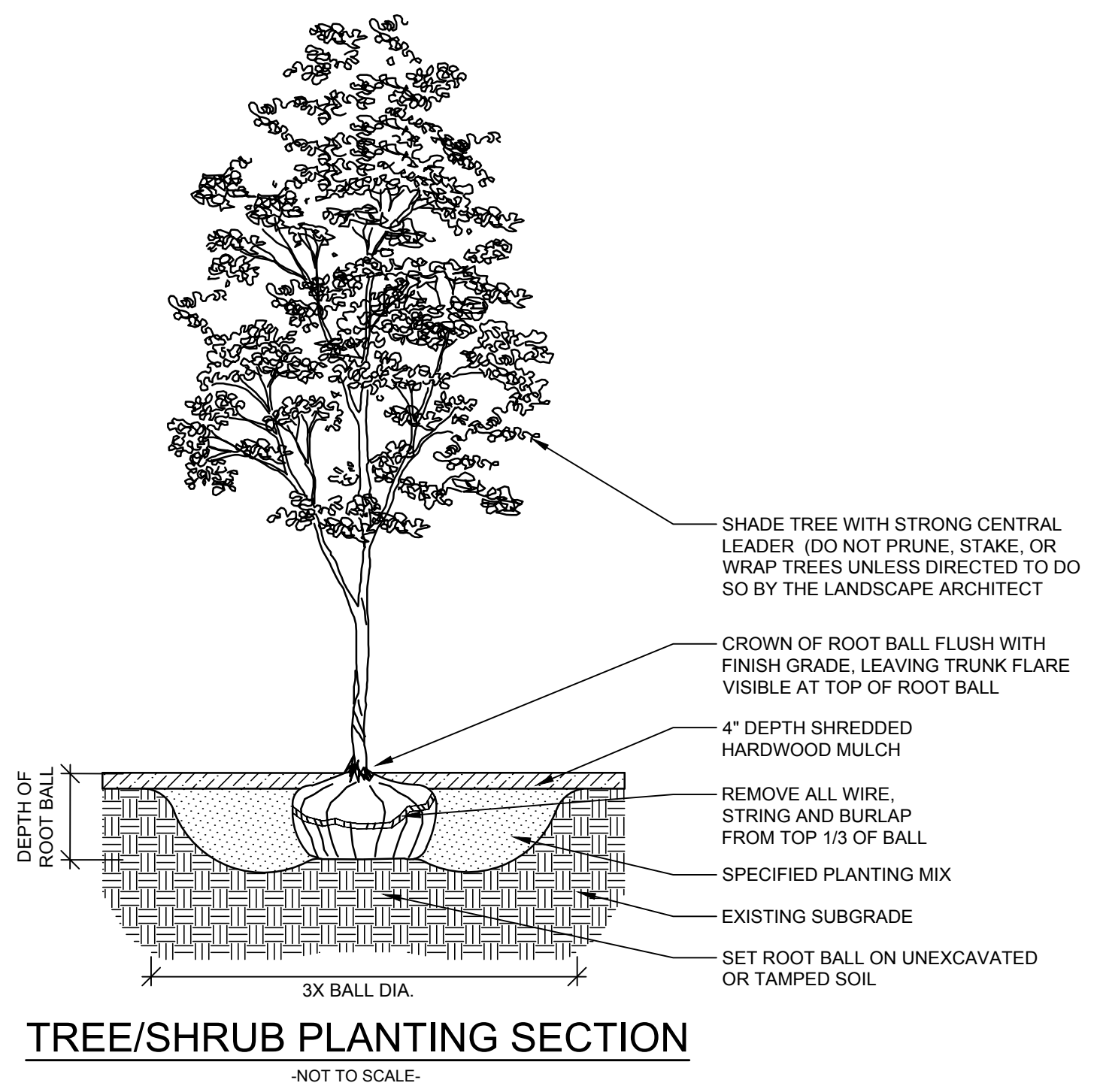


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PLANT LIST - ALTERNATE A

NOTE: QUANTITIES ON THE PLANT LIST ARE PROVIDED FOR INFORMATION ONLY. PLANT QUANTITIES UNDER THE CONTRACT ARE INDICATED ON THE PLANS. IN THE EVENT OF ANY DISCREPANCIES, THE CONTRACT SHALL BE BASED ON THE QUANTITIES SHOWN ON THE PLANS.

CODE	BOTANICAL NAME	COMMON NAME	QTY	CAL	HT	ROOT	REMARKS
SHADE TREES							
COC	CELTIS OCCIDENTALIS 'CHICAGOLAND'	CHICAGOLAND COMMON HACKBERRY	2	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
CCO	CORYLUS COLURNA	TURKISH FILBERT	2	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
GBAG	GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD GINGKO	5	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
LT	LIRIODENDRON TULIPIFERA	TULIPTREE	2	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
PAMC	PLATANUS X ACERIFOLIA 'MORTON CIRCLE'	EXCLAMATION! LONDON PLANETREE	3	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
QMU	QUERCUS MUEHLENBERGII	CHINKAPIN OAK	1	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
TAR	TILIA AMERICANA 'REDMOND'	REDMOND AMERICAN LINDEN	3	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT



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 6201067363
 PROJECT NAME:
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 415 E STOCKBRIDGE AVENUE
 KALAMAZOO, MI 49001

05 12/01/2023 PAD
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 04 10/25/2023 PAD
 90% SUBMITTAL
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 70% SUBMITTAL

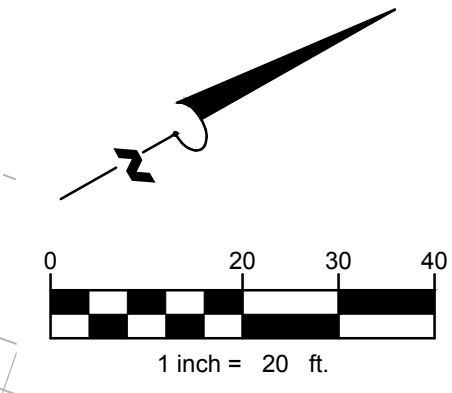
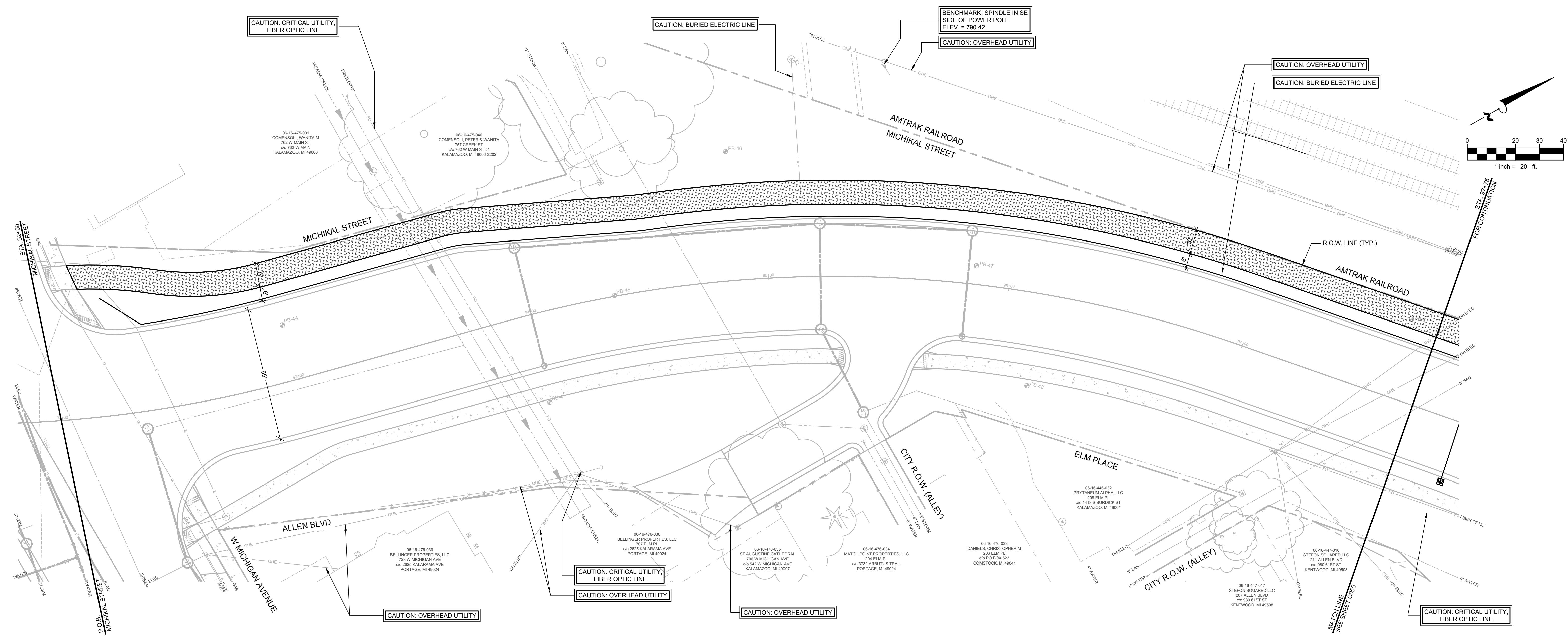
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DATE: DECEMBER, 2023
 SCALE: NONE

QUANTITIES THIS SHEET	
ITEM	QTY.
Subbase, CIP	120 Cyd
Shared use Path, Conc	650 Syd
Shared use Path, Grading	580 Ft
Post, Steel, 3 pound	30 Ft
Sign, Type IIIB	14 Sft

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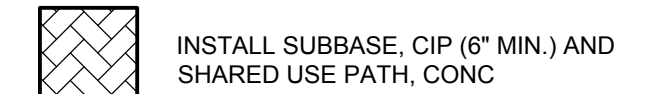
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NOTES

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LEGEND



05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	
REVISIONS	
DATE: DECEMBER, 2023	
SCALE: 1" = 20'	

LANDSCAPE PLAN -
 ALTERNATE B -
 MICHIKAL -
 STA. 92+00 (P.O.B.) TO STA.
 97+75

QUANTITIES THIS SHEET

ITEM	QTY.
Subbase, CIP	100 Cyd
Detectable Warning Surface	40 Ft
Curb Ramp, Conc, 6 inch	180 Sft
Shared use Path, Conc	560 Syd
Shared use Path, Grading	500 Ft
Post, Steel, 3 pound	60 Ft
Sign, Type IIIA	18 Sft
Sign, Type IIIB	24 Sft
Sign, Type III, Perimeter Lighted, W11-2 (LED)	4 Ea
Pavt Mrkg, Waterborne, 24 inch, Stop Bar	35 Ft
Pavt Mrkg, Waterborne, Xing	3 Ea
Pavt Mrkg, Waterborne, Ped	3 Ea
Power Company (Estimated Cost to Contractor)	500 Dir
Conduit, DB, 1, 1 1/2 inch	35 Ft
Cable, Sec, 600v, 1, 3/C#6	200 Ft
Hh, Round, 3 foot dia	2 Ea
Pedestal, Alum	3 Ea
Pedestal, Fdn	3 Ea
Pushbutton	3 Ea

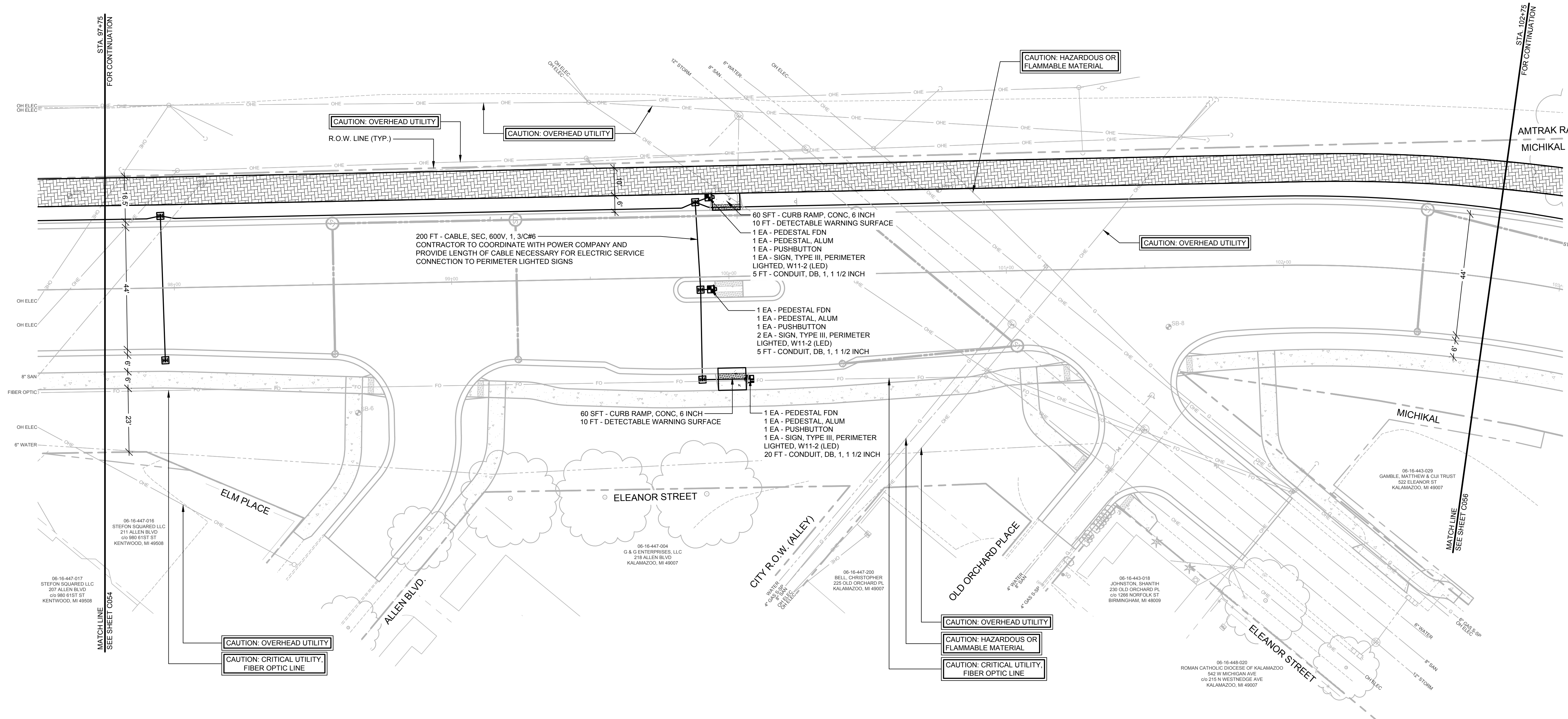
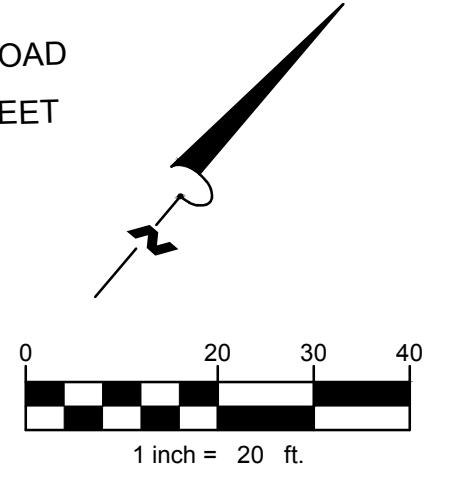


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PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

CITY OF
KALAMAZOO
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

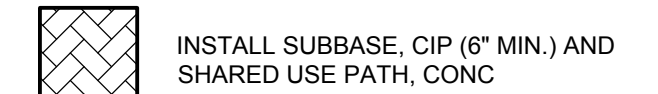
PHILIP A. DOORLAG
6201067363



NOTES

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- SEE SHEET C031 FOR SIGN INSTALLATION REQUIRED FOR PEDESTRIAN CROSSING.

LEGEND



05 12/01/2023 PAD
ISSUED FOR BIDDING

04 10/25/2023 PAD
90% SUBMITTAL

01 08/30/2023 PAD
70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 20'

LANDSCAPE PLAN -
ALTERNATE B -
MICHIKAL -
STA. 97+75 TO STA. 102+75

QUANTITIES THIS SHEET	
ITEM	QTY.
Subbase, CIP	50 Cyd
Shared use Path, Conc	280 Syd
Shared use Path, Grading	255 Ft
Post, Steel, 3 pound	205 Ft
Sign, Type IIIA	18 Sft
Sign, Type IIIB	75 Sft
Pavt Mrkg, Waterborne, 24 inch, Stop Bar	25 Ft
Pavt Mrkg, Waterborne, Xing	2 Ea
Pavt Mrkg, Waterborne, Ped	2 Ea

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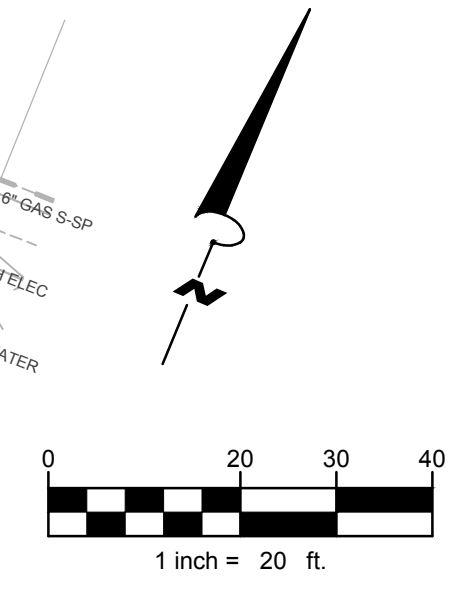
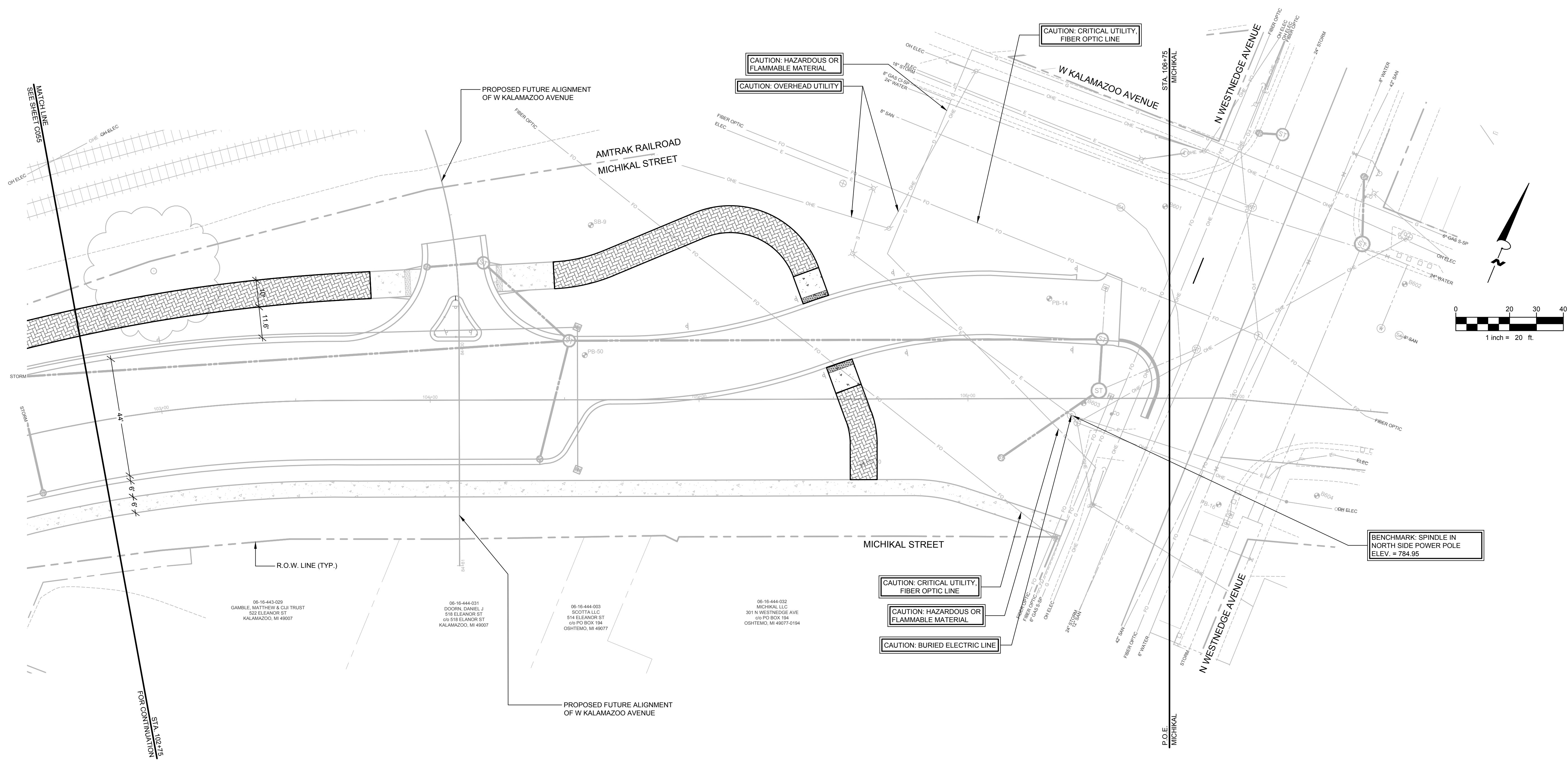
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LEGEND

INSTALL SUBBASE, CIP (6" MIN.) AND SHARED USE PATH, CONC

05/12/2023	PAD
ISSUED FOR BIDDING	
04/10/2023	PAD
90% SUBMITTAL	
01/08/2023	PAD
70% SUBMITTAL	

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 20'

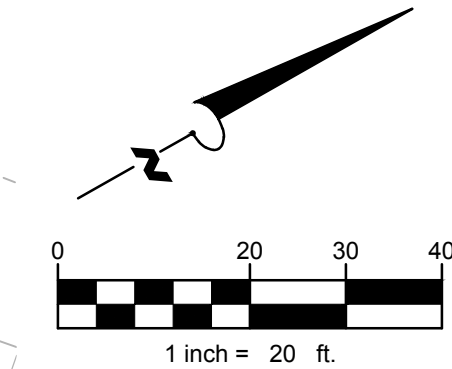
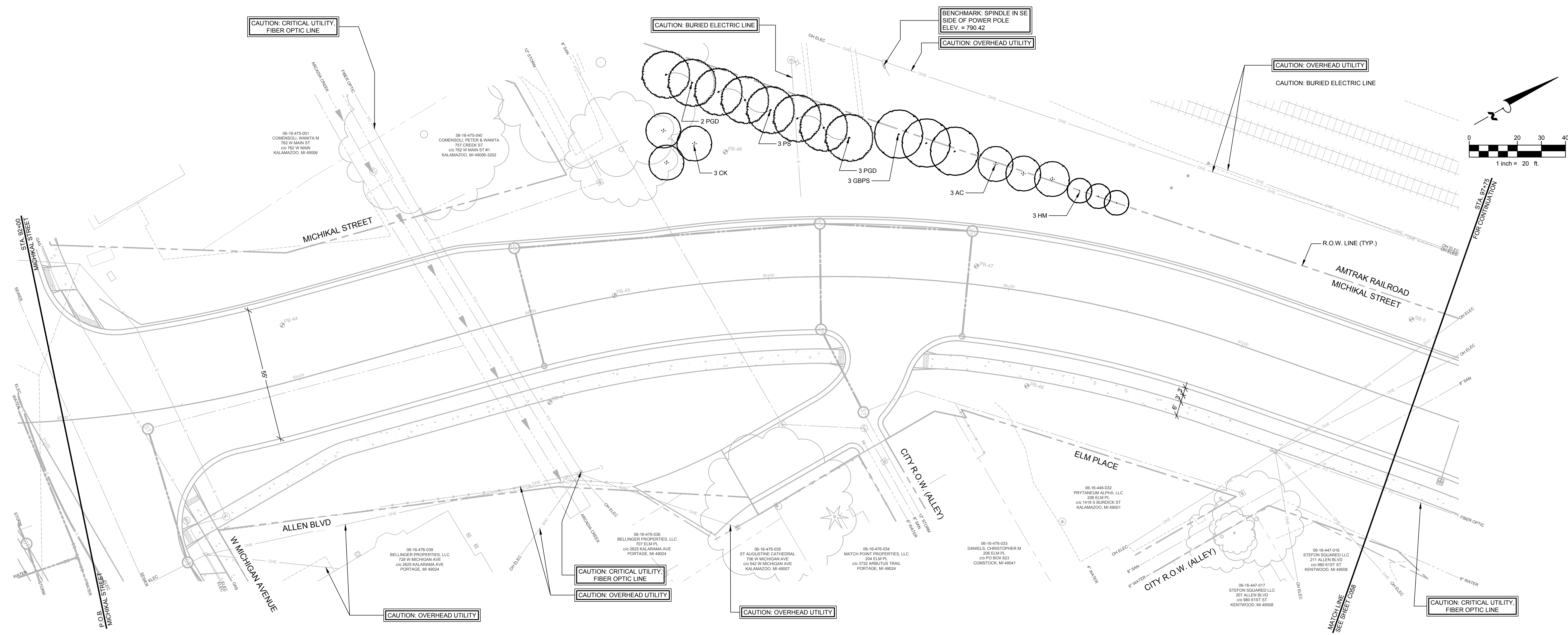
LANDSCAPE PLAN -
ALTERNATE B -
MICHIKAL -
STA. 102+75 TO STA. 106+75
(P.O.E.)

QUANTITIES THIS SHEET		
ITEM		QTY.
Ginkgo biloba 'Princeton Sentry', 4 inch		3 Ea
Picea glauca 'Densata', 10 foot		5 Ea
Pinus strobus, 10 foot		3 Ea
Amelanchier canadensis, clump form, 10 foot		2 Ea
Cornus kousa, clump form, 10 foot		3 Ea
Heptacodium miconioides 'Temple of Bloom', clump form, 10 foot		3 Ea



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LEGEND

-  SHADE TREE
-  EVERGREEN TREE
-  ORNAMENTAL TREE

05/12/2023	ISSUED FOR BIDDING	PAD
04/10/2023	90% SUBMITTAL	PAD
01/08/2023	70% SUBMITTAL	PAD

REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 20'

LANDSCAPE PLAN -
ALTERNATE C -
MICHIKAL -
STA. 92+00 (P.O.B.) TO STA.
97+75

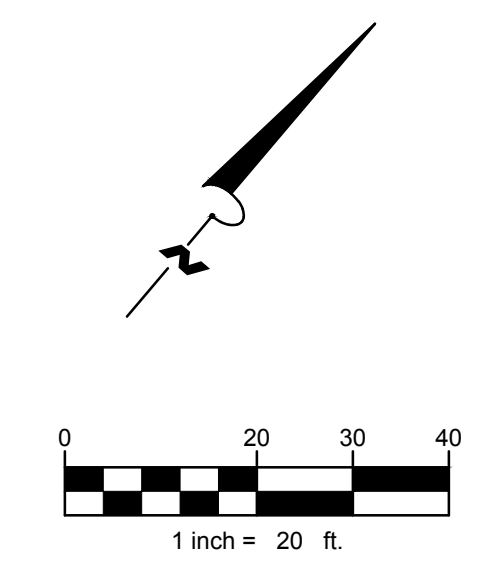
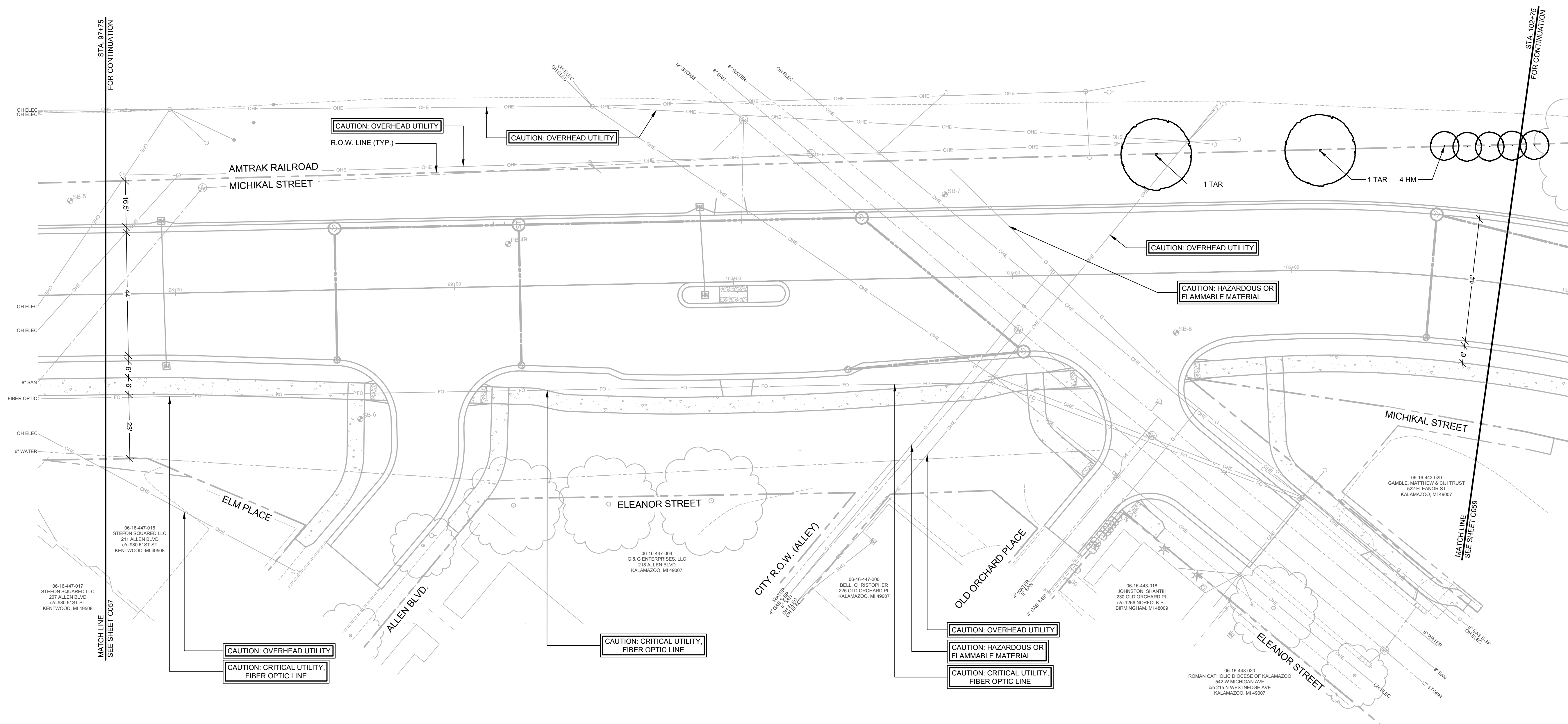
QUANTITIES THIS SHEET	
ITEM	QTY.
Tilia americana 'Redmond', 4 inch	2 Ea
Heptacodium miconioides 'Temple of Bloom', clump form, 10 foot	4 Ea



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LEGEND

-  SHADE TREE
-  EVERGREEN TREE
-  ORNAMENTAL TREE

05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	
REVISIONS	
<small> 1. 05/12/2023: 05% SUBMITTAL 2. 06/15/2023: 15% SUBMITTAL 3. 07/20/2023: 30% SUBMITTAL 4. 08/30/2023: 70% SUBMITTAL 5. 12/01/2023: ISSUED FOR BIDDING </small>	
DATE: DECEMBER, 2023	
SCALE: 1" = 20'	

LANDSCAPE PLAN -
ALTERNATE C -
MICHIKAL -
STA. 97+75 TO STA. 102+75

QUANTITIES THIS SHEET

ITEM	QTY.
Pinus strobus, 10 foot	4 Ea
Heptacodium miconioides 'Temple of Bloom', clump form, 10 foot	1 Ea



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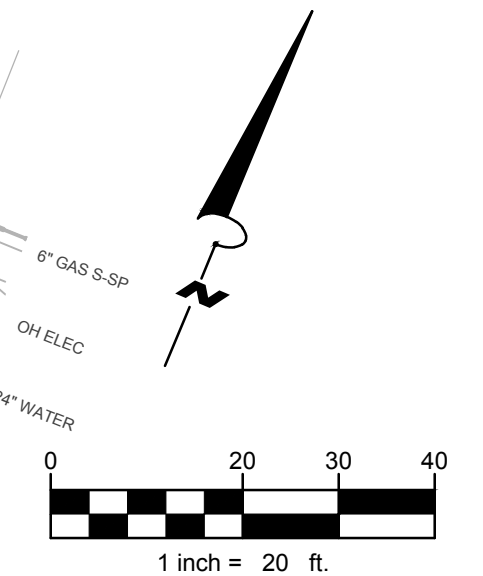
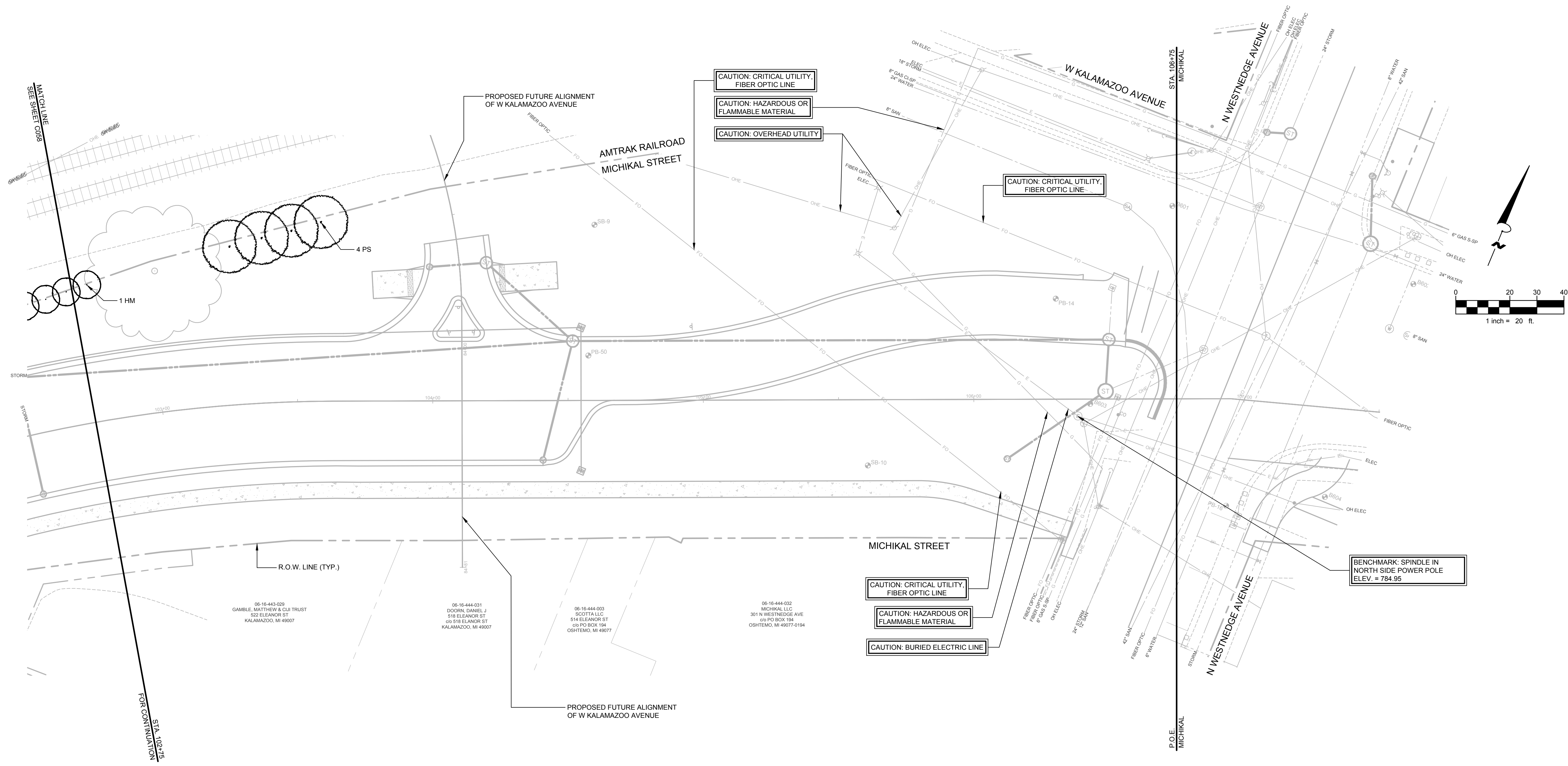
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KALAMAZOO, MI 49001



- 06-16-443-029
GAMBLE, MATTHEW & CLY TRUST
522 ELEANOR ST
KALAMAZOO, MI 49007
- 06-16-444-031
COORN, DANIEL J
518 ELEANOR ST
518 ELEANOR ST
KALAMAZOO, MI 49007
- 06-16-444-033
SCOTTA LLC
514 ELEANOR ST
620 PO BOX 194
OSHTAMO, MI 49877
- 06-16-444-032
MICHIKAL LLC
301 N WESTWEDGE AVE
PO BOX 194
OSHTAMO, MI 49077-0194

- CAUTION: CRITICAL UTILITY,
FIBER OPTIC LINE
- CAUTION: HAZARDOUS OR
FLAMMABLE MATERIAL
- CAUTION: BURIED ELECTRIC LINE

BENCHMARK: SPINDLE IN
NORTH SIDE POWER POLE
ELEV. = 784.95

NOTES

- LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO UTILITIES. CONTRACTOR MUST CALL 811 FOR UTILITY LOCATIONS THREE DAYS PRIOR TO DIGGING.
- SEE SECTION 815 AND 917 OF THE 2020 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- ALL LANDSCAPE BEDS ADJACENT TO LAWN AREAS SHALL HAVE A SPADED EDGE.
- LANDSCAPE ARCHITECT TO REVIEW ALL TREES EITHER IN THE NURSERIES OR VIA PHOTOGRAPHS OF EACH PLANT. CONTRACTOR TO COORDINATE.
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AREAS OF POOR DRAINAGE OR OTHER UNUSUAL SUBSURFACE CONDITIONS ARE ENCOUNTERED DURING EXCAVATION FOR PLANTING PITS

LEGEND

- + SHADE TREE
- EVERGREEN TREE
- ORNAMENTAL TREE

05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

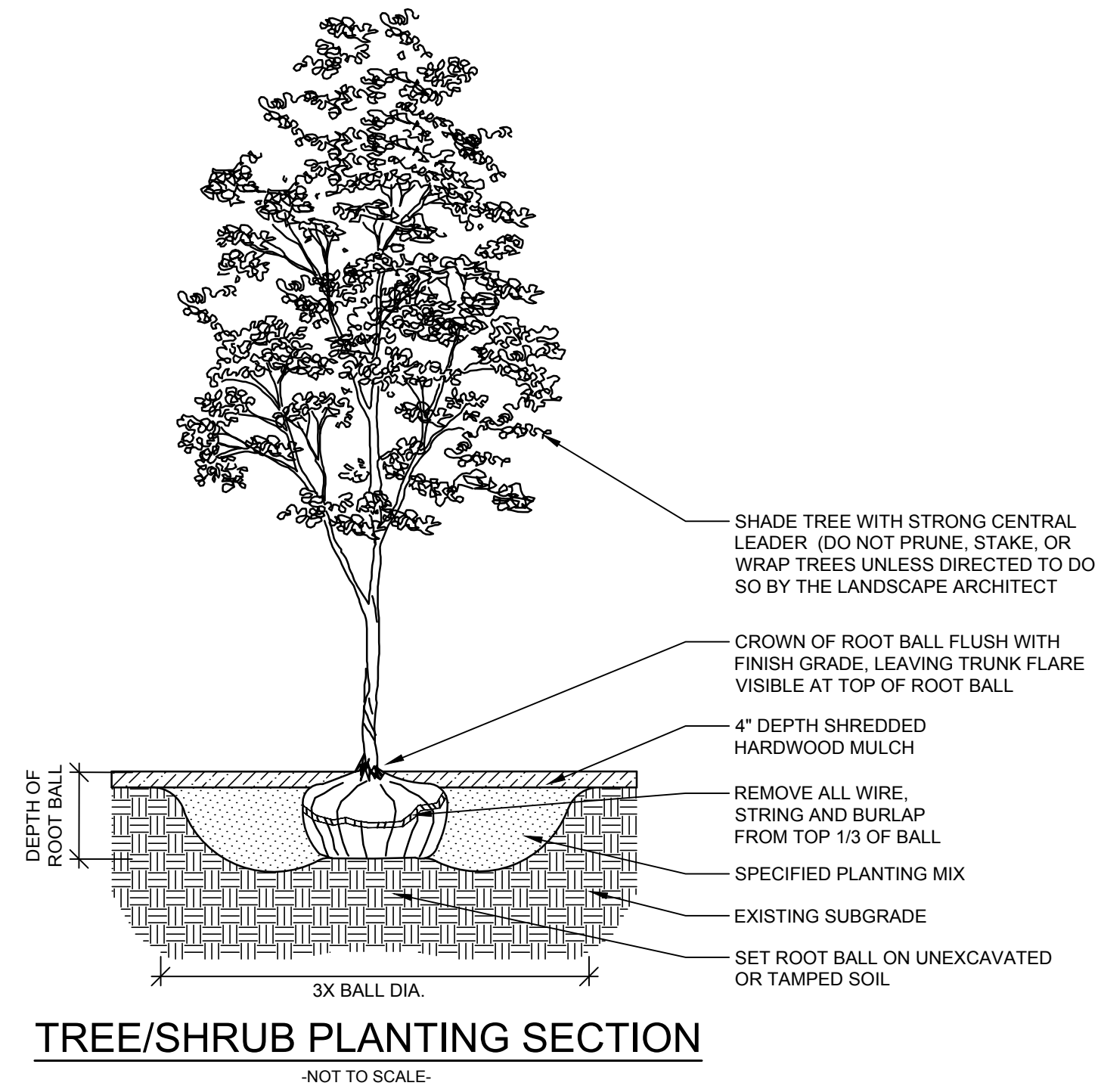
REVISIONS
DATE: DECEMBER, 2023
SCALE: 1" = 20'

LANDSCAPE PLAN -
ALTERNATE C -
MICHIKAL -
STA. 102+75 TO STA. 106+75
(P.O.E.)

PLANT LIST - ALTERNATE C

NOTE: QUANTITIES ON THE PLANT LIST ARE PROVIDED FOR INFORMATION ONLY. PLANT QUANTITIES UNDER THE CONTRACT ARE INDICATED ON THE PLANS. IN THE EVENT OF ANY DISCREPANCIES, THE CONTRACT SHALL BE BASED ON THE QUANTITIES SHOWN ON THE PLANS.

CODE	BOTANICAL NAME	COMMON NAME	QTY	CAL	HT	ROOT	REMARKS
SHADE TREES							
GBPS	GINKGO BILOBA PRINCETON SENTRY	PRINCETON SENTRY GINKGO	3	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
TAR	TILIA AMERICANA 'REDMOND'	REDMOND AMERICAN LINDEN	2	4"		B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY, LOWEST BRANCH 6' HEIGHT
EVERGREEN TREES							
PGD	PICEA GLAUCA 'DENSATA'	BLACK HILLS SPRUCE	5		10'		SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY
PS	PINUS STROBUS	EASTERN WHITE PINE	7		10'	B&B	SINGLE STRAIGHT TRUNK, SPECIMEN QUALITY
ORNAMENTAL TREES							
AC	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	3		10'	B&B	MULTI-STEM, 4-5 STEMS MINIMUM
CK	CORNUS KOUSA	KOUSA DOGWOOD	3		10'	B&B	MULTI-STEM, 4-5 STEMS MINIMUM
HM	HEPTACODIUM MICONIODES 'TEMPLE OF BLOOM'	TEMPLE OF BLOOM SEVEN-SON FLOWER	8		10'	B&B	MULTI-STEM, 4-5 STEMS MINIMUM



QUANTITIES THIS SHEET	
ITEM	QTY.
Site Preparation, Max	5,000 LSUM
Watering and Cultivating, First Season, Min	5,000 LSUM

W+
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KALAMAZOO, MI. 49007
269.327.3532

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PHILIP A. DOORLAG
6201067363

PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001

05 12/01/2023	PAD
ISSUED FOR BIDDING	
04 10/25/2023	PAD
90% SUBMITTAL	
01 08/30/2023	PAD
70% SUBMITTAL	

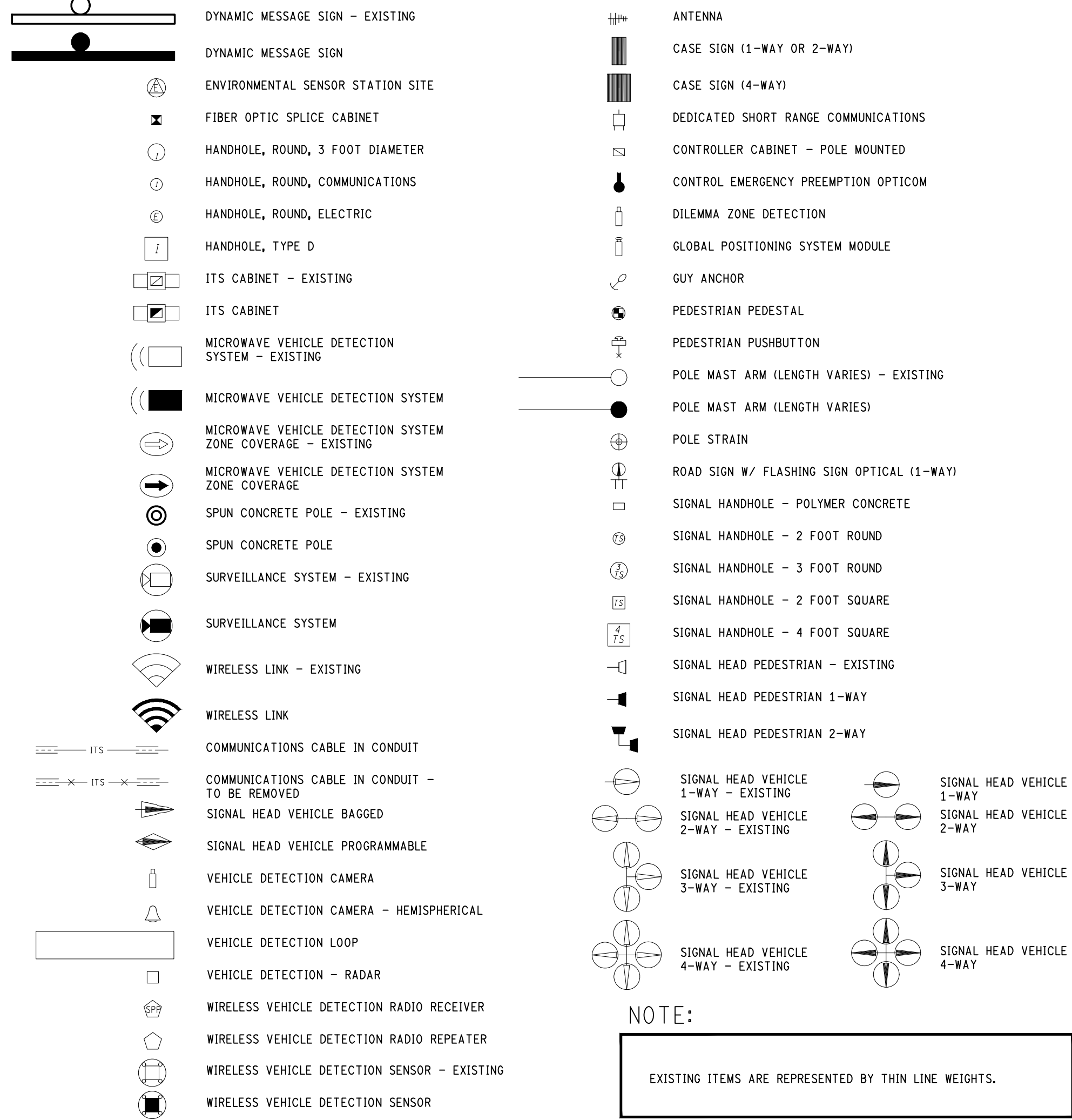
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DATE: DECEMBER, 2023
SCALE: NONE

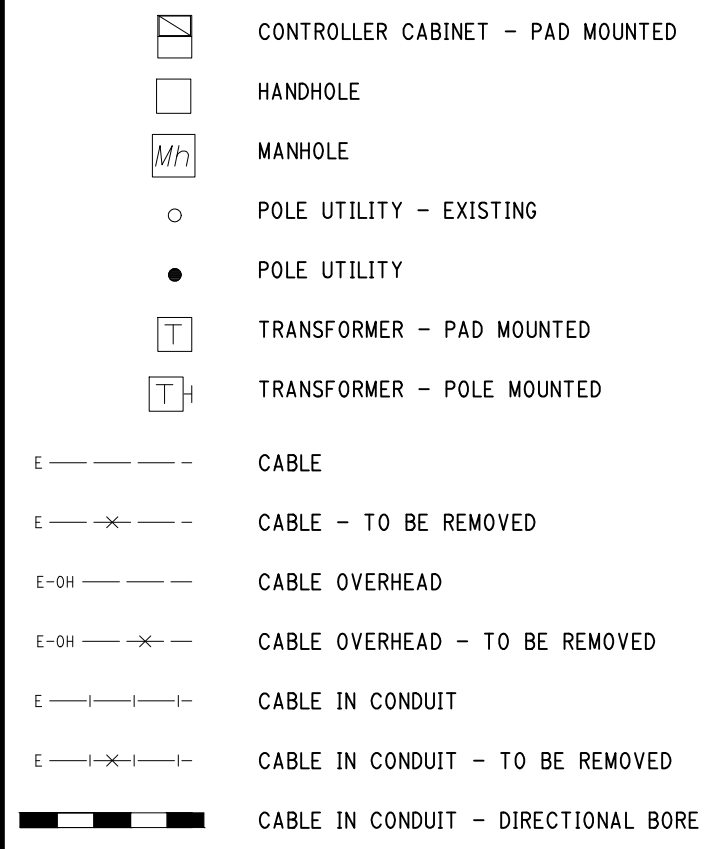
LANDSCAPE PLAN -
ALTERNATE C -
MICHIKAL -
DETAILS AND PLANT LIST

ITS / SIGNALS

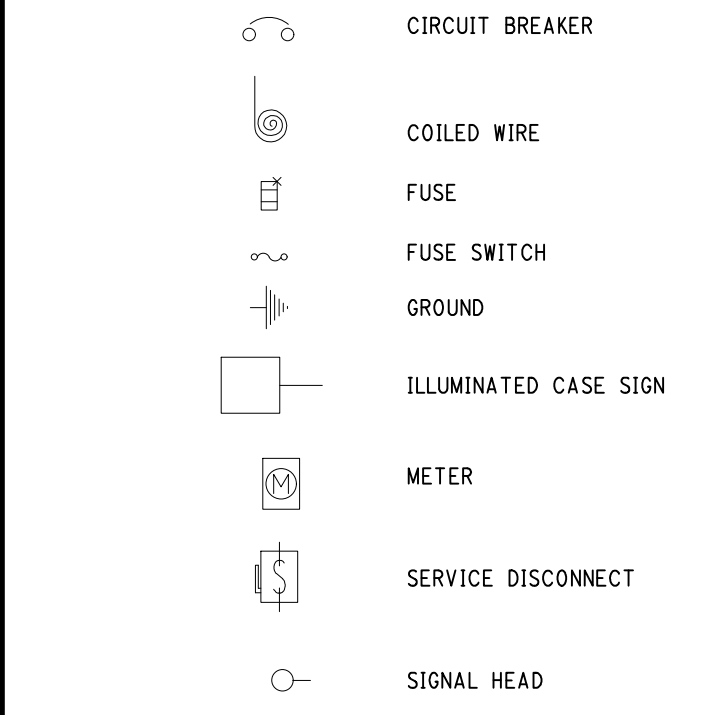


NOTE:
EXISTING ITEMS ARE REPRESENTED BY THIN LINE WEIGHTS.

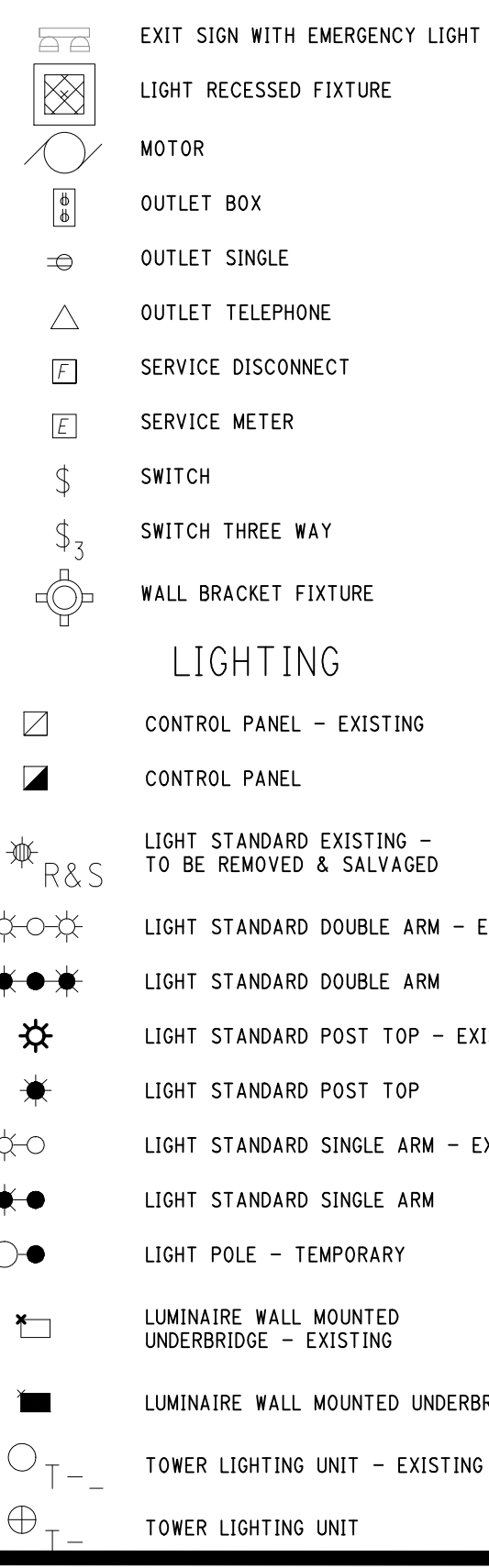
ELECTRICAL



CABLING / WIRING DIAGRAM



ARCHITECTURAL



Miscellaneous / Estimated Quantities

The following items of work shall be done at each intersection as they apply throughout the project. These items are not detailed or included on the plan sheets.

The Miscellaneous / Estimated Quantities are listed for each Signalized intersection independently with an assumption that the maintaining traffic, and related quantities may be required to be implemented simultaneously and not sequentially.

All Signals	ITEM	Quantities
	Power Co. (Est. Cost to Contractor)	500 Dir

GENERAL NOTES for ALL SIGNALS

The improvements covered by these plans shall be done in accordance with the Current Michigan Department of Transportation (M.D.O.T.) Standard Specifications for Construction, except as otherwise indicated on the plans or in the supplemental special specifications.

GENERAL
All signs shall be installed, removed and/or salvaged according to the current edition of "Michigan Manual on Uniform Traffic Control Devices" and the current edition of Michigan Department of Transportation (MDOT) "Standard Specifications for Construction."

All signs on the plans or in the log that do not have a recommendation are to be retained.

EXISTING SIGN RELOCATION
Any permanent signs requiring relocation due to Contractor operations shall be salvaged and reset by the Contractor at locations designated by the Engineer. Signs and posts damaged during the removal and storage operations shall be replaced with new signs and posts. The cost of this work shall be borne by the Contractor.

PLAN SCALE
The final plans submitted with the proposal are not to scale. Where proposed on plan sheets, the signs and structures shall be fabricated in accordance to Typical Plans, Standards, and/or Details at locations described.

SIGN LAYOUT
Sign layouts shall be according to the current English edition of "Standard Highway Signs" manual or as detailed in plans.

SIGN INSTALLATION
When attaching signs to supports, tighten the nut, not the bolt head.

Nylon washers shall be placed between the steel washer and the sign face sheeting. The nylon washers are to be considered part of the attaching devices and hardware. Nylon washers shall have a 3/8-inch inner diameter, a 7/8-inch outer diameter and a 1/16-inch thickness.

SIGNALS
PREVIOUS GENERAL NOTES
Some notes previously included in "General Notes" are now located within the Frequently Used Special Provision titled "Traffic Signal Work - Construction Methods".

MAINTAINING AGENCY CONTACT INFORMATION
City of Kalamazoo
Contact: Dennis Randolph, Traffic Engineer 1-(269)-337-9612

Contact the City of Kalamazoo 7 working days prior to installation and inspection of traffic signals.

NOTIFICATIONS TO MAINTAINING AGENCIES
Contact the City of Kalamazoo 7 working days prior to start of construction and seven working days prior to signal activation.

CABINET SET UP AND CONTROLLER TIMING
Contractor shall deliver T.S. controller to the City of Kalamazoo for timing a minimum of two weeks prior to the expected field installation. The contractor shall pick-up T.S. controller from the City of Kalamazoo when ready for installation.

FACILITIES NOT ON PLANS
Existing O.H. & T.S. facilities are not necessarily shown on plans.

WOOD POLE INSTALLATION
N/A
SALVAGED WOOD POLES
N/A

EXISTING STREET SIGNS
All traffic street signs affected by construction scope of work on this project shall be stored with traffic signal equipment as outlined in "Signal Equipment Disposal" for salvage and / or re-use by the City.

CONTINUOUS TRAFFIC SIGNAL OPERATION
Proposed T.S. shall be put into operation at time of removal of existing T.S. facilities, contractor shall notify the City if unable to maintain T.S. in an operable condition at all times.

UNDERGROUND UTILITY SEPARATION
A minimum clearance of 3'-6" horizontal & 1'-0" vertical must be maintained between proposed facilities & existing U.G. water facilities.

INTERCONNECT PHONE SERVICE
No interconnects to traffic signals are anticipated on this project.

SIGNAL EQUIPMENT DISPOSAL
Disposal of all traffic signal equipment is included in the removal pay items and shall also include the following:
• Notification to City of Kalamazoo 24 hours prior to removal that traffic signal equipment is being removed.
• Neatly stockpile the removed equipment on-site for pick up by City of Kalamazoo personnel.
• Proper disposal of any equipment containing environmentally sensitive materials (mercury relay switches for example)
• Disabling or destruction of all remaining equipment to the satisfaction of the engineer such that it cannot be reused or resold.
• Proper disposal of all remaining equipment.

PLAN DEVIATIONS DURING CONSTRUCTION
No changes from plans in location of supporting structures signal head placement or traffic signal equipment will be allowed without prior approval of the City of Kalamazoo

POLE BAND CLAMP ACCEPTANCE
The current basis of acceptance for this material is now part of the OPL (Qualified Product List). This can be found in the materials Acceptance Requirements Table, published in the MQAP and repeated for convenience in the Materials Source Guide.

SIGNAL HEAD LANDING POINT
Ensure each traffic signal head assembly has its own landing point with all neutrals connected together with a metal type jumper.

Contact Ron Ridenhour, City of Kalamazoo Senior Traffic Technician (269) 491-9696, 1 week prior to signal start-up for aerial inspection.

All mast arm traffic signals shall have reflectorized backplates. The logo imprinted on the lid of all proposed handholes shall read "TRAFFIC SIGNAL"

All signal strain poles shall be powder-coated in black color.

NOTES APPLYING TO STANDARD PLANS

Where the following items are called for on plans, they are to be constructed according to the standard plan given below opposite each item unless otherwise indicated.

Title	Plan No.
STATEWIDE TRAFFIC SIGNALS	
TS MAST ARM POLE/MAST ARM DETAILS - CATEGORY II	SIG-031-B *
TS MAST ARM STANDARD FOUNDATIONS	SIG-040-A *
CLAMP ON BRACKET ARM ASSEMBLY (STREET LIGHT)	SIG-061-A *
PEDESTAL FOUNDATION	SIG-070-A *
BASE MOUNTED TS CONTROLLER CABINET/FOUNDATIONS	SIG-110-A *
ANTENNA ATTACHMENT DETAIL (YAG/BROADBAND)	SIG-130-B *
TRAFFIC SIGNAL UNINTERRUPTIBLE POWER SYSTEM	SIG-140-A *
UNDERGROUND SERVICE METERED AND UNMETERED	SIG-210-B *
SERVICE FOR STREET NAME SIGNS AND STREET LIGHTING	SIG-220-A *
COLOR CODE WIRING/EQUIPMENT GROUNDING	SIG-230-A *
HANDHOLE- PRECAST, POLYMER CONCRETE	SIG-240-A *
CONDUIT (DIRECT BURIAL/ENCASED)	SIG-250-A *
MAST ARM MOUNTED TS BRACKET ASSEMBLY	SIG-301-A *
BRACKETING FOR 5- SECTION HEADS	SIG-302-A *
TRAFFIC SIGNAL BACKPLATES	SIG-304-A *
PEDESTAL MOUNTED SIGNAL DISPLAYS	SIG-330-A *
PEDESTAL MOUNTING DETAILS FOR SIGNALS	SIG-331-A *
POLE MOUNTED SIGNAL DISPLAYS	SIG-340-A *
POLE MOUNTING DETAILS FOR SIGNALS	SIG-341-A *
BACK BRACKET SIGNAL DISPLAYS	SIG-342-A *
PEDESTRIAN PUSH BUTTON DETAILS	SIG-400-A *
VIDEO DETECTION CAMERA	SIG-430-A *
* Denotes Special Detail	

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DANIEL W. WESTENBURG
6201049263

PHILIP A. DOORLAG
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415 E STOCKBRIDGE AVENUE
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04 10/25/2023 PAD
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01 06/30/2023 PAD
70% SUBMITTAL

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DATE: DECEMBER, 2023
SCALE: NO SCALE

LEGEND AND
NOTES - SIGNALS

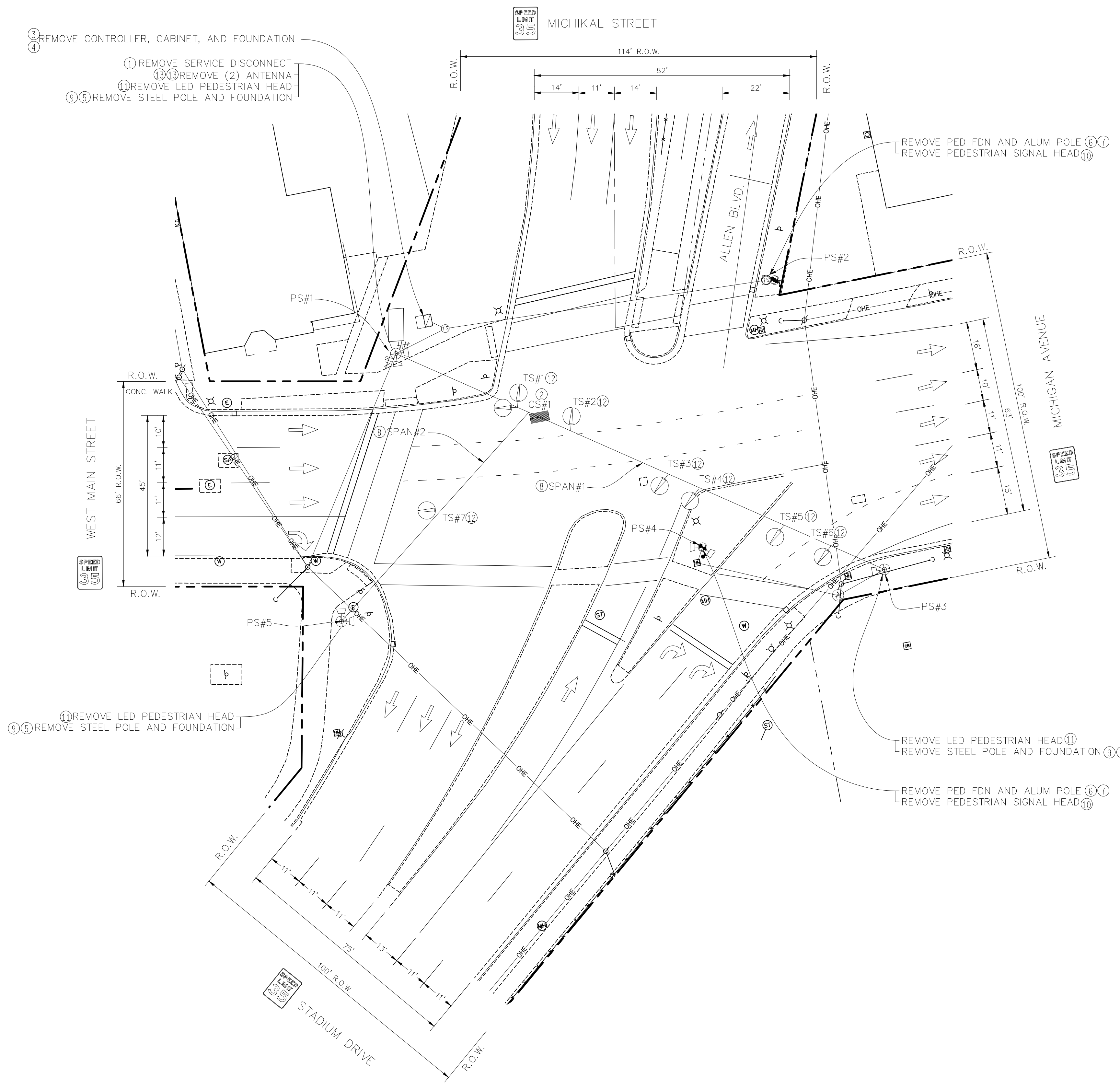
JOB No. 224022
C061
OF 69

CONTROL SECTION NO. - JOB NO. 215566

CONTACT: ANDRE D. TAYLOR WITH CONSUMERS ENERGY (C.E.) 269-337-2245 FOR WORK SHOWN ON THIS SHEET. CE TO DISCONNECT AND RE-CONNECT SECONDARY SERVICE.

UTILIZE EXISTING CONDUIT & HANDHOLES WHERE POSSIBLE, OTHERWISE INSTALL NEW AS DIRECTED BY ENGINEER.

TIME OF REMOVAL OF TRAFFIC SIGNALS TO BE AS DIRECTED BY THE ENGINEER



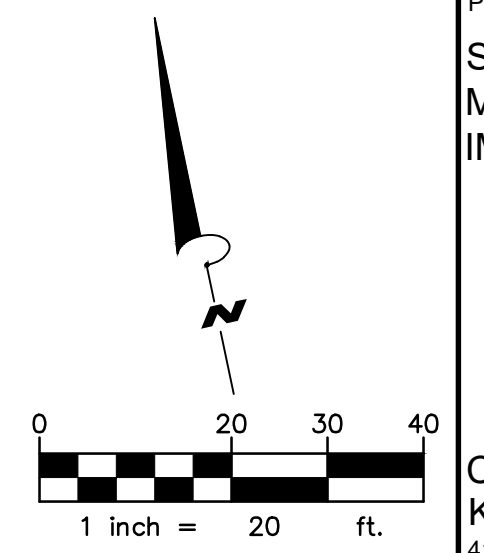
NO.	ITEM	QUANTITIES	ITEM CODE
1	Serv Disconnect, Rem	1 Ea	8182367
2	Case Sign, Rem	1 Ea	8200020
3	Controller and Cabinet, Rem	1 Ea	8200030
4	Controller Fdn, Rem	1 Ea	8200046
5	Fdn, Rem	3 Ea	8200065
6	Pedestal Fdn, Rem	2 Ea	8200106
7	Pedestal, Rem	2 Ea	8200110
8	Span Wire, Rem	2 Ea	8200141
9	Steel Pole, Rem	3 Ea	8200145
10	TS, Pedestrian, Pedestal Mtd, Rem	2 Ea	8200181
11	TS, Pedestrian, Bracket Arm Mtd, Rem	3 Ea	8200180
12	TS, Span Wire Mtd, Rem	7 Ea	8200182
13	TS, Antenna, Rem (Yagi Antenna)	2 Ea	8200368

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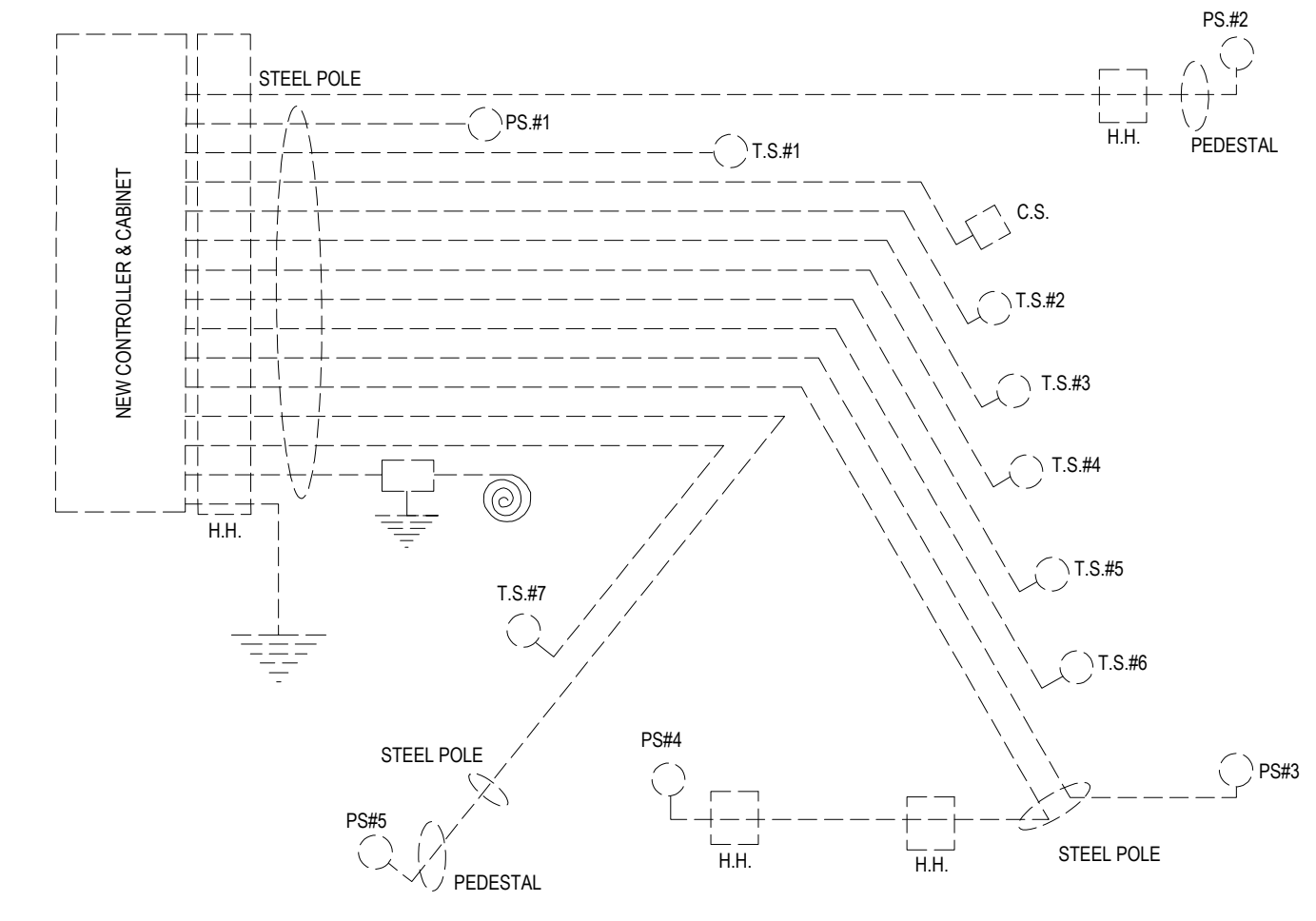
DANIEL W. WESTENBURG
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PROJECT NAME:
**STREETS FOR ALL:
MICHIKAL
IMPROVEMENTS**

CITY OF
KALAMAZOO
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



REMOVAL CABLING DIAGRAM
NOT TO SCALE

811
Know what's below.
Call before you dig.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PIWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) ARE APPROXIMATE. THE CITY OF KALAMAZOO ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

REMOVE 4-WAY CASE SIGN

CS#1

REMOVE L.E.D. PEDESTRIAN HEAD

PS#1 PS#2 PS#3 PS#4 PS#5

REMOVE 2W-3C SPAN WIRE MTD T.S.

FACING NORTH & WEST TS#1

REMOVE 2W-3C SPAN MTD T.S.

TS#2 TS#3 TS#4 TS#5 TS#6 TS#7

SIGNALS

OPENINGS: 27

CYCLIC WATTS: 263

STEADY WATTS: 180

05/12/2023 PAD
ISSUED FOR BIDDING

04/10/2023 PAD
90% SUBMITTAL

01/06/2023 PAD
70% SUBMITTAL

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DATE: DECEMBER, 2023
SCALE: 1"=20'

SIGNAL LOC. # 3

TRAFFIC SIGNAL
REMOVAL PLAN
WEST MAIN STREET
AT
MICHIKAL STREET
MICHIGAN AVENUE
STADIUM DRIVE

JOB No. 224022
C062
OF 69

CONTROL SECTION NO. JOB NO. 215586

EXPLORATORY INVESTIGATION PAY ITEM TO BE USED AS NEEDED TO LOCATE UNDERGROUND UTILITIES FLAGGED BY MISS DIG.

CONTACT: ANDRE D. TAYLOR WITH CONSUMERS ENERGY (C.E.) 269-337-2245 FOR WORK SHOWN ON THIS SHEET. CE TO DISCONNECT AND RE-CONNECT SECONDARY SERVICE.

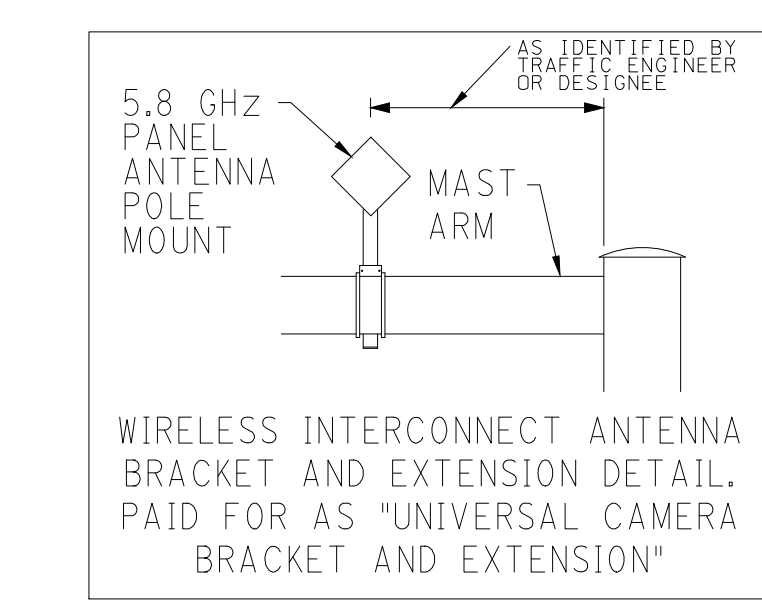
INSTALL 22' MAST ARM POLE, CAT II (29)
 INSTALL MAST ARM POLE FDN, 6 BOLT, 42" DIAMETER (30)
 INSTALL MAST ARM, 50' (30)
 19' DEEP, 16" CASING (27)
 INSTALL CONDUIT, DB, 3-3" (15 Ft) (3) (4)
 AND CONDUIT, DB 1-1/2" (15 Ft) (3) (4)
 INSTALL LUMINAIRE, ROADWAY (9) (3) (4)
 INSTALL LIGHT STANDARD ARM, 8 Ft (8)

- (12)(37)(38) INSTALL CONTROLLER & CABINET
- INSTALL CONTROLLER FDN
- INSTALL 36" HH (7)
- INSTALL CONDUIT, DB 4-3" (10 Ft)
- INSTALL 3-3" (5 Ft) & 1-1/2" (35 Ft)
- INSTALL VIDEO DETECTION SYSTEM
- INSTALL UNDERGROUND SERVICE PEDESTAL
- INSTALL TRAFFIC SIGNAL POWER BACKUP SYSTEM
- INSTALL FIBER OPTIC, HARDWARE ASSEMBLY, SMALL, MODIFIED (39)
- INSTALL ETHERNET SWITCH WITH SFP'S
- INSTALL FIBER OPTIC, PIGTAIL, MODIFIED
- INSTALL PEDESTRIAN SIGNAL SYSTEM, ACCESSIBLE
- INSTALL 29' MAST ARM POLE, CAT II (29)
- INSTALL MAST ARM POLE FDN, 6 BOLT, 42" DIAMETER (30)
- INSTALL MAST ARM, 50' (30)
- 19' DEEP, 16" CASING (27)
- INSTALL 1W-2C-BM PEDESTRIAN SIGNAL
- INSTALL WIRELESS LINK, 5.8 GHz, MASTER
- INSTALL PUSH BUTTON STATION AND SIGN
- INSTALL LUMINAIRE, ROADWAY (9)
- INSTALL LIGHT STANDARD ARM, 8 Ft (8)
- INSTALL PEDESTAL, ALUM AND FDN (14)
- INSTALL 1W-2C-PM PEDESTRIAN SIGNAL (23)
- INSTALL PUSH BUTTON STATION AND SIGN
- INSTALL PEDESTAL, PUSHBUTTON, ALUM AND FDN (15)
- INSTALL CONDUIT, DB, 1-1/2" (30 Ft) (3)



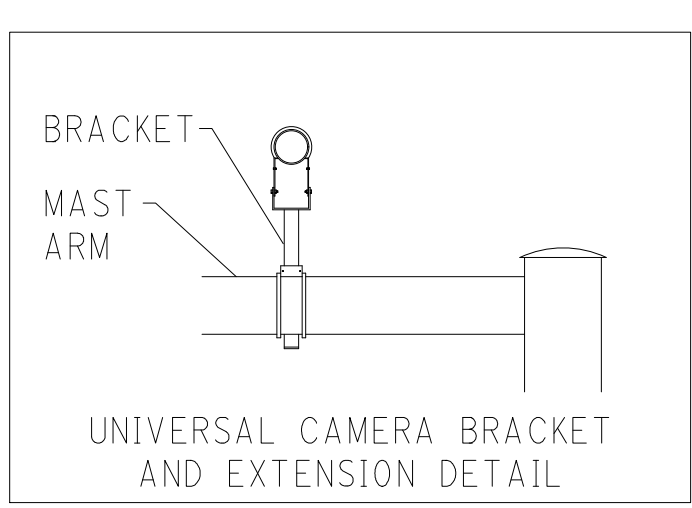
RAILROAD DETOUR FLASHER TO BE INTERCONNECTED

- INTERCONNECT RAILROAD DETOUR FLASHER USING EXISTING CONDUIT
- INSTALL PUSH BUTTON STATION AND SIGN
- INSTALL PEDESTAL, PUSHBUTTON, ALUM AND FDN (15)
- INSTALL CONDUIT, DB, 1-1/2" (10 Ft) (3)
- INSTALL PEDESTAL, ALUM AND FDN (14)
- INSTALL 1W-2C-PM PEDESTRIAN SIGNAL (23)
- INSTALL CONDUIT, DB, 1-1/2" (5 Ft) (3)
- INSTALL 22' MAST ARM POLE, CAT II (29)
- INSTALL MAST ARM POLE FDN, 6 BOLT, 42" DIAMETER (30)
- INSTALL MAST ARM, 50' (30)
- 19' DEEP, 16" CASING (27)
- INSTALL CONDUIT, DB, 3-3" (30 Ft) (3) (4)
- AND CONDUIT, DB 1-1/2" (30 Ft) (3) (4)
- INSTALL WIRELESS LINK, 5.8 GHz (REPEATER)
- INSTALL LUMINAIRE, ROADWAY (9)
- INSTALL LIGHT STANDARD ARM, 8 Ft (8)



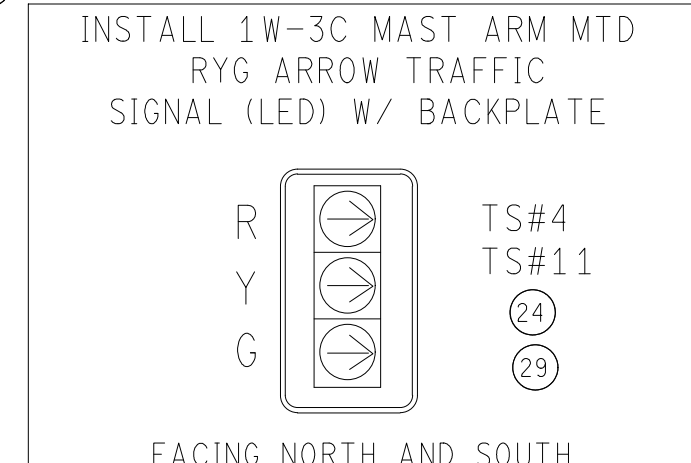
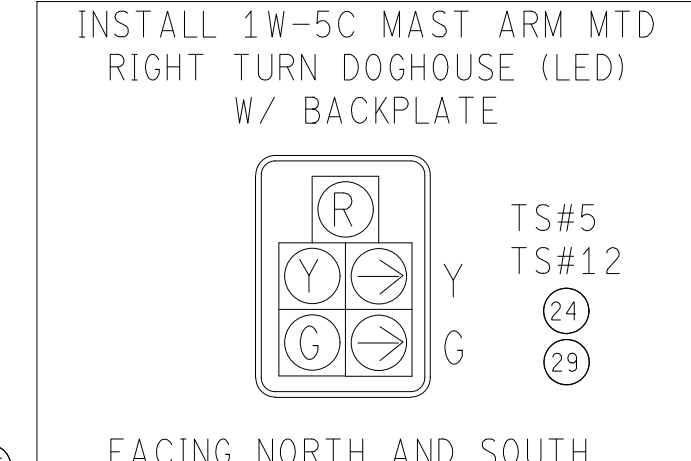
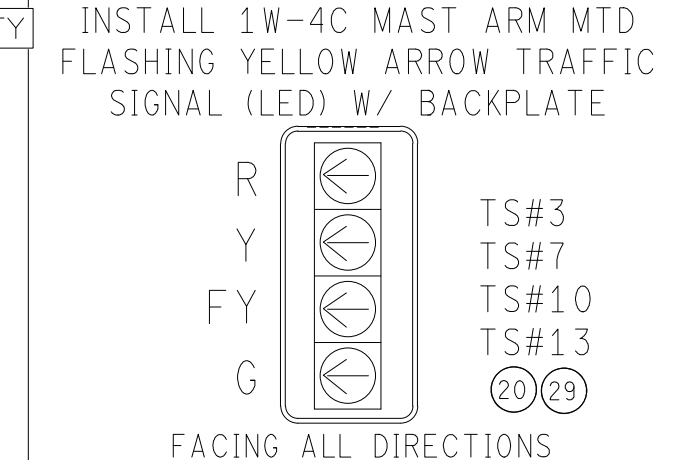
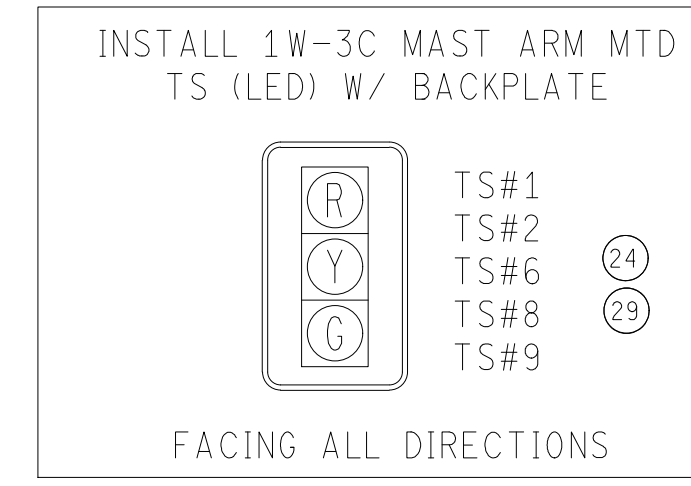
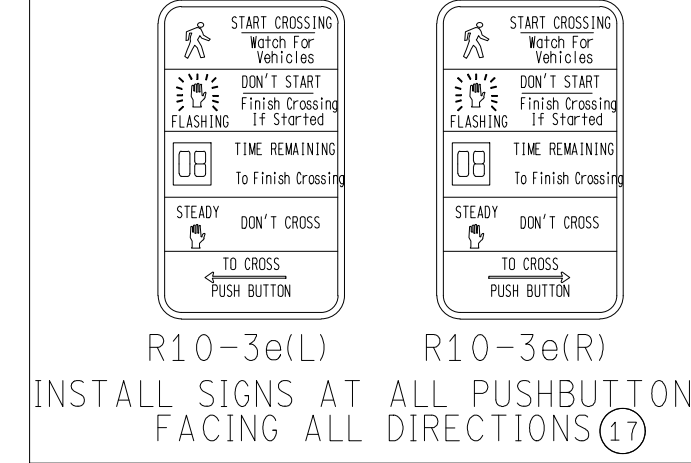
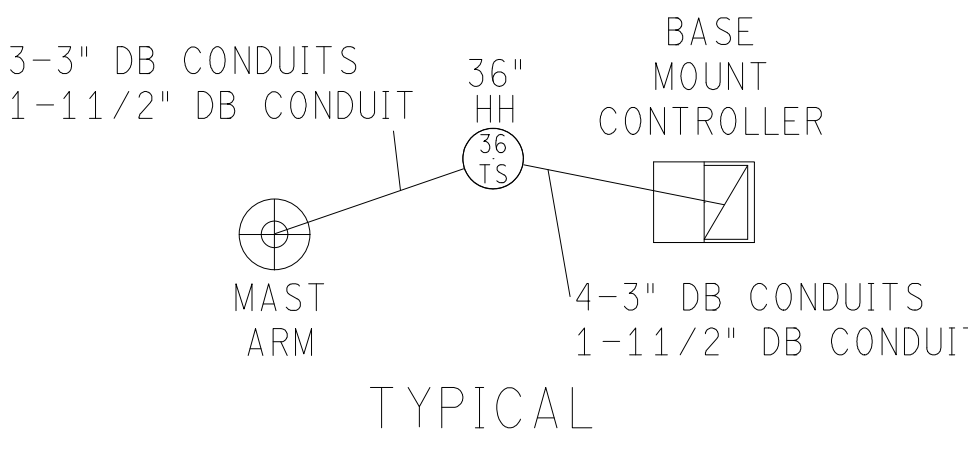
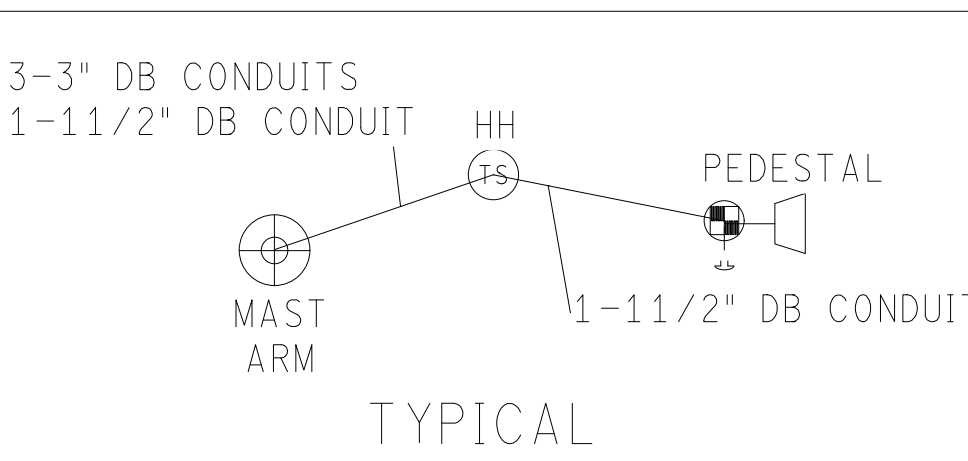
CONTACT: CITY OF KALAMAZOO TRAFFIC ENGINEER OR DESIGNEE 7 DAYS IN ADVANCE FOR PLACEMENT OF VIDEO TRAFFIC DETECTION ZONES.

THE UNDERGROUND UTILITIES ARE SHOWN BASED ON THE INFORMATION THAT IS AVAILABLE, AND SHOULD BE CONSIDERED TO BE IN THEIR APPROXIMATE LOCATION. MISS DIG (811) MUST BE CONTACTED 3 DAYS PRIOR TO CONSTRUCTION TO LOCATE UTILITIES THAT ARE WITHIN THE RIGHT-OF-WAY.



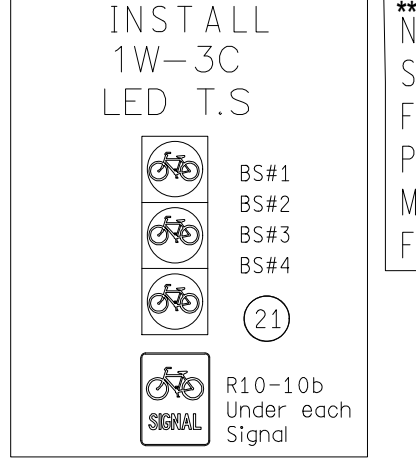
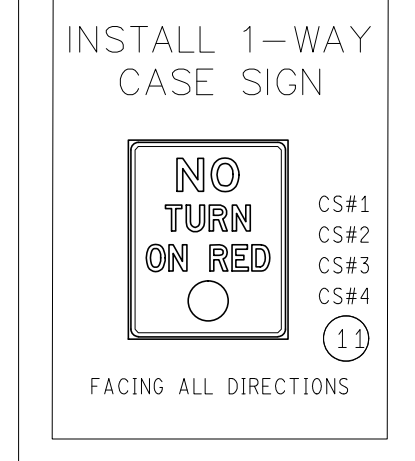
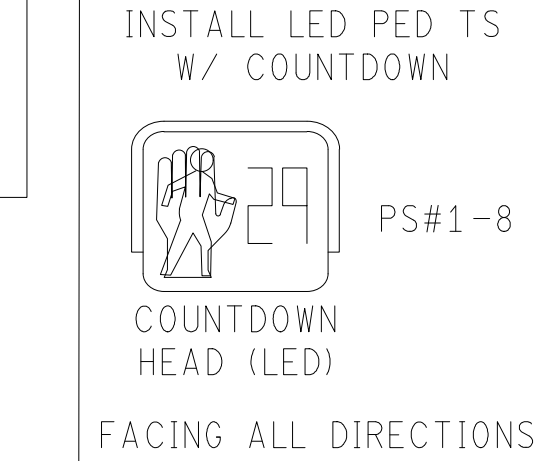
NOTE: FOR PROPOSED PAVEMENT, GROUND SIGNS, AND PAVEMENT MARKING IMPROVEMENTS, SEE ADA DETAIL, PAVEMENT MARKING, AND SIGNING PLANS IN THIS PLAN SET.

THE TRAFFIC SIGNAL POWER BACKUP SYSTEM SHALL CONTAIN A 4 BATTERY SYSTEM WHICH SHALL BE INCLUDED IN THE PAY ITEM, AND NOT PAID FOR SEPARATELY.

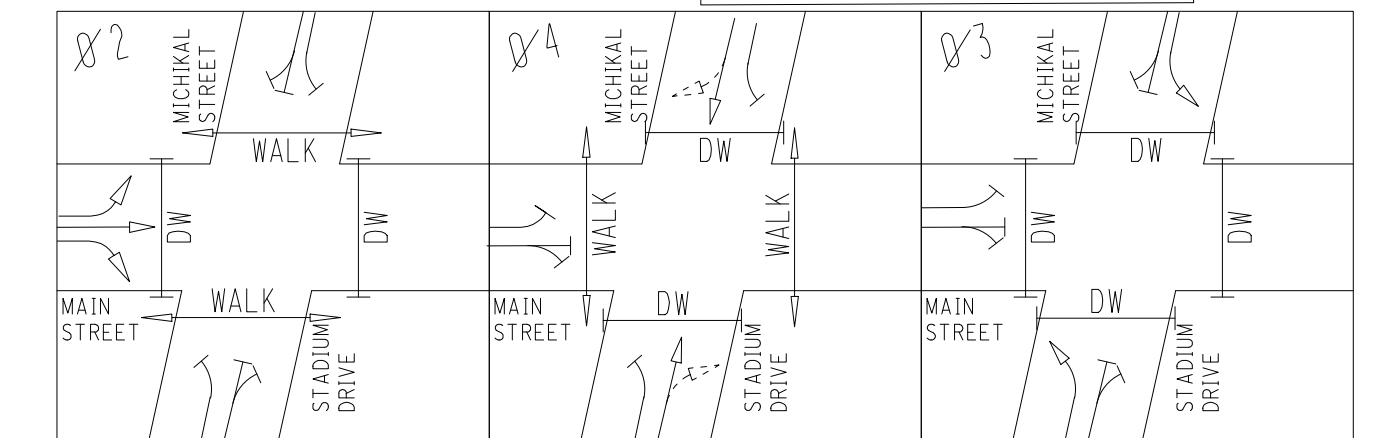


NO.	ITEM	QUANTITIES	ITEM CODE
1	Exploratory Investigation, Vertical	20 Ft	2040080
2	Conduit, Directional Bore, 2, 3 inch	400 Ft	8182037
3	Conduit, DB, 1, 1 1/2 inch	235 Ft	8182048
4	Conduit, DB, 3, 3 inch	65 Ft	8182056
5	Conduit, DB, 4, 3 inch	10 Ft	8182059
6	Cable, Sec, 600V, 1, 3/C#6	50 Ft	8182238
7	Hh, Round, 3 foot Dia.	1 Ea	8182319
8	Light Standard Arm, 8 foot	4 Ea	8190266
9	Luminaire, Roadway	4 Ea	8197050
10	Pedestal, Underground Serv, Metered	1 Ea	8200111
11	Case Sign (LED), One Way, 24 inch by 30 inch	4 Ea	8200029
12	Controller Fdn, Base Mtd	1 Ea	8200045
13	Ethernet Switch with SFP's	1 Ea	8200088
14	Pedestal, Alum	6 Ea	8200100
15	Pedestal, Fdn	8 Ea	8200105
16	Pedestal, Pushbutton, Alum	2 Ea	8200118
17	Push Button Station and Sign	8 Ea	8200121
18	Pedestrian Signal System, Accessible	1 Ea	8200240
19	TS, Wireless Link, 5 Gighertz, Master	2 Ea	8200274
20	TS, One Way Mast Arm Mtd, FYA (LED)	4 Ea	8200304
21	TS, One Way Bracket Arm Mtd (LED)	4 Ea	8200333
22	TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown	2 Ea	8200336
23	TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	6 Ea	8200345
24	TS, One Way Mast Arm Mtd (LED)	7 Ea	8200359
25	TS Face, Bag	3 Ea	8200458
26	TS Face, Bag, Rem	3 Ea	8200459
27	Casing	64 Ft	8200480
28	Backplate, TS	13 Ea	8200501
29	Mast Arm Pole, Cat II (COATED BLACK)	4 Ea	8202011
30	Mast Arm, 50 foot, Cat II (COATED BLACK)	4 Ea	8202026
31	Mast Arm Pole Fdn, 6 bolt	76 Ea	8202034
32	Traffic Signal Power Backup System	1 Ea	8207050
33	TS, One Way Mast Arm Mtd, Five Sect (LED)	2 Ea	8207050
34	Video Detection Camera	4 Ea	8207050
35	Video Detection System	1 Ea	8207050
36	Street Name Sign, Two-Way, LED Illuminated, 6 foot	4 Ea	8207050
37	Controller, ATC Type, Modified	1 Ea	8207050
38	Controller Cabinet, Modified	1 Ea	8207050
39	Fiber Optic, Hardware Assembly, Small, Modified	1 Ea	8260065
40	Fiber Optic, Pigtail, Modified	24 Ea	8260071
41	Universal Camera Bracket and Extension	5 Ea	8207050

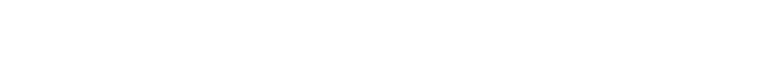
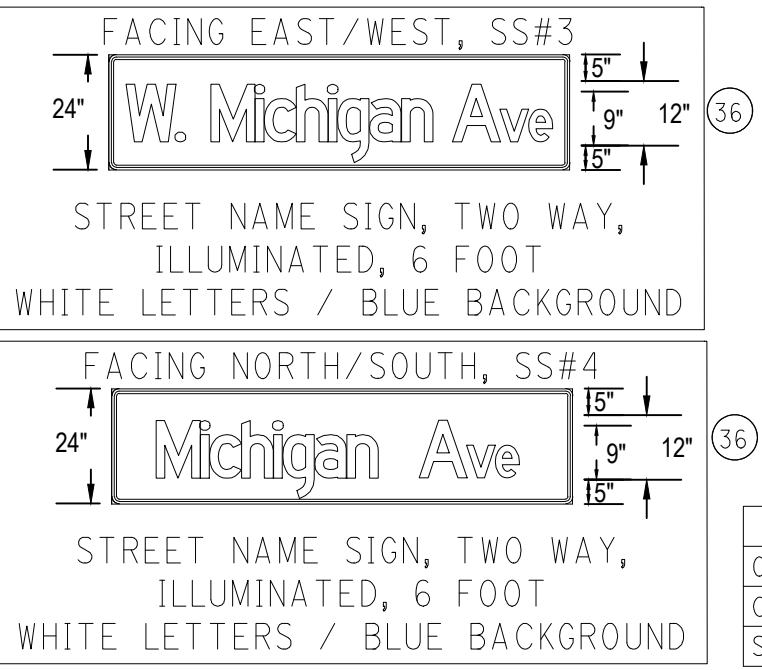
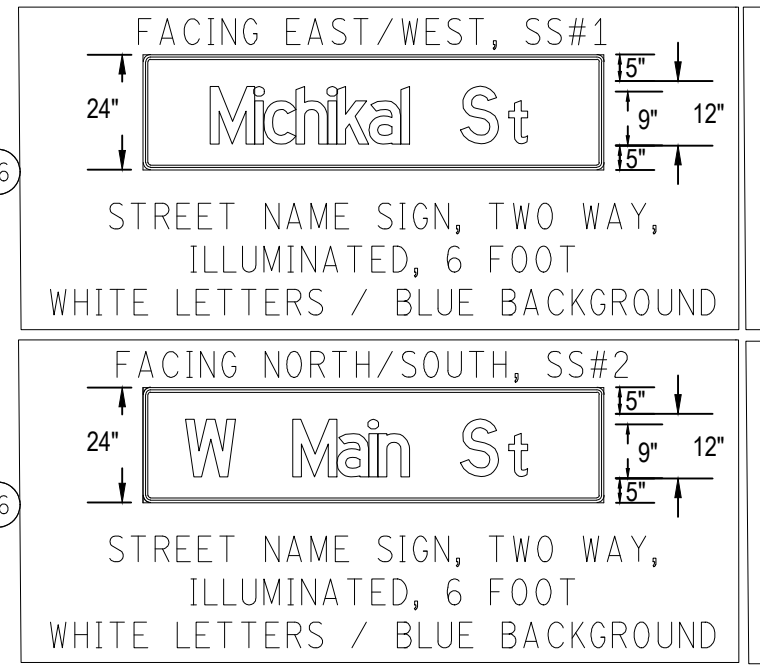
* Bag TS#1, TS#2, and TS#3 until completion of two-way conversion along Michigan Avenue



NOTE: MAST ARMS AND MAST ARM STANDARDS SHALL BE COATED BLACK PER SPECIAL PROVISION FOR COATING GALVANIZED SIGNAL STRUCTURES. PAYMENT SHALL BE INCLUDED IN THE COST OF MAST ARMS AND POLES AND WILL NOT BE PAID FOR SEPARATELY.



ITEM & NO.	STATION	OFFSET	FOUNDATION ELEVATION
MAST ARM #1	92+18	44.73'L	791.31'
MAST ARM #2	91+03	29.48'L	791.88'
MAST ARM #3	91+61	44.55'R	791.59'
MAST ARM #4	92+60	39.99'R	791.75'
PEDESTAL #1	92+08	65.25'L	791.31'
PEDESTAL #2	91+97	65.61'L	791.22'
PEDESTAL #3	91+27	60.50'L	791.23'
PEDESTAL #4	91+18	56.52'L	791.34'
PEDESTAL #5	91+07	36.97'L	791.88'
PEDESTAL #6	91+88	84.56'R	791.83'
PEDESTAL #7	92+48	53.96'R	791.67'
PEDESTAL #8	92+53	42.85'R	791.55'
CONTROLLER	92+31	46.94'L	791.48'



SIGNALS	
OPENINGS:	53
CYCLIC WATTS:	598
STEADY WATTS:	0

W+
WIGHTMAN
 433 E. RANSOM ST.
 KALAMAZOO, MI 49007
 269.327.3532
 www.gowightman.com

DANIEL W. WESTENBURG
 6201049263

PHILIP A. DOORLAG
 6201067363

PROJECT NAME:
STREETS FOR ALL: MICHIKAL IMPROVEMENTS

CITY OF KALAMAZOO
 415 E STOCKBRIDGE AVENUE
 KALAMAZOO, MI 49001

DATE	REVISIONS	BY
05/12/2023	ISSUED FOR BIDDING	PAD
04/10/25/2023	90% SUBMITTAL	PAD
01/06/30/2023	70% SUBMITTAL	PAD

TRAFFIC SIGNAL INSTALL PLAN WEST MAIN STREET AT MICHIKAL STREET MICHIGAN AVENUE STADIUM DRIVE

SCALE: 1"=20'

DATE: DECEMBER, 2023

JOB NO. 224022

C063
OF 69



THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS (GAS), TELEPHONE (TEL), ELECTRICAL POWER (PWR), CABLE TV (CTV) AND FIBER OPTIC LINES (FIBER) ARE APPROXIMATE. THE CITY OF KALAMAZOO ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

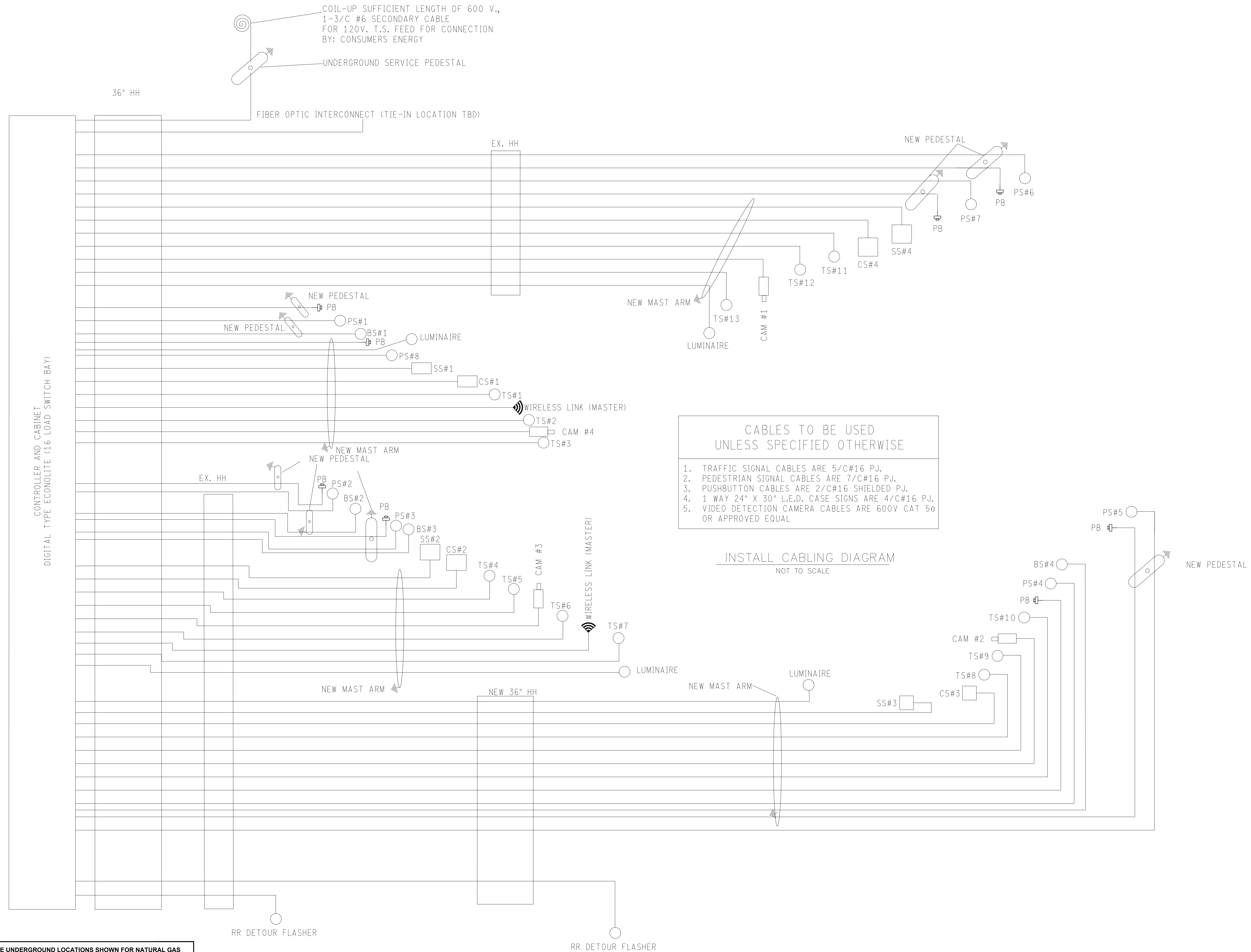
CONTROL SECTION NO. JOB NO. 215586

progressive | **ae**
901 E. Main St. NE Grand Rapids, MI 49503 616.361.2624
 www.progressiveae.com

W+
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- CABLES TO BE USED UNLESS SPECIFIED OTHERWISE**
1. TRAFFIC SIGNAL CABLES ARE 5/C#16 PJ.
 2. PEDESTRIAN SIGNAL CABLES ARE 7/C#16 PJ.
 3. PUSHBUTTON CABLES ARE 2/C#16 SHIELDED PJ.
 4. 1 WAY 24" X 30" L.E.D. CASE SIGNS ARE 4/C#16 PJ.
 5. VIDEO DETECTION CAMERA CABLES ARE 600V CAT 5e OR APPROVED EQUAL

INSTALL CABLING DIAGRAM
 NOT TO SCALE

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DATE: DECEMBER, 2023
 SCALE: 1"=20'

TRAFFIC SIGNAL INSTALL PLAN - WIRING DIAGRAM WEST MAIN STREET AT MICHIKAL STREET MICHIGAN AVENUE STADIUM DRIVE

JOB No. 224022
C064
 OF 69

CONTROL SECTION NO. JOB NO. 216586

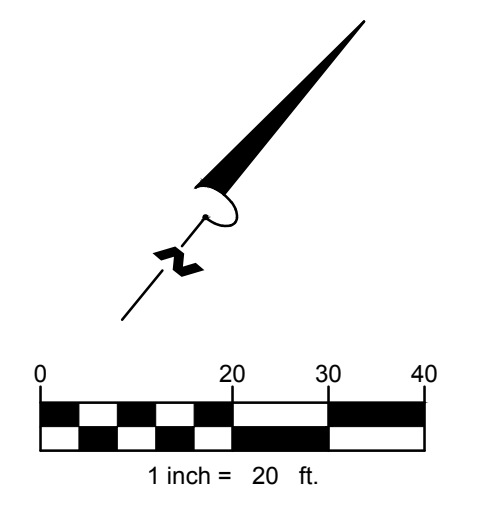
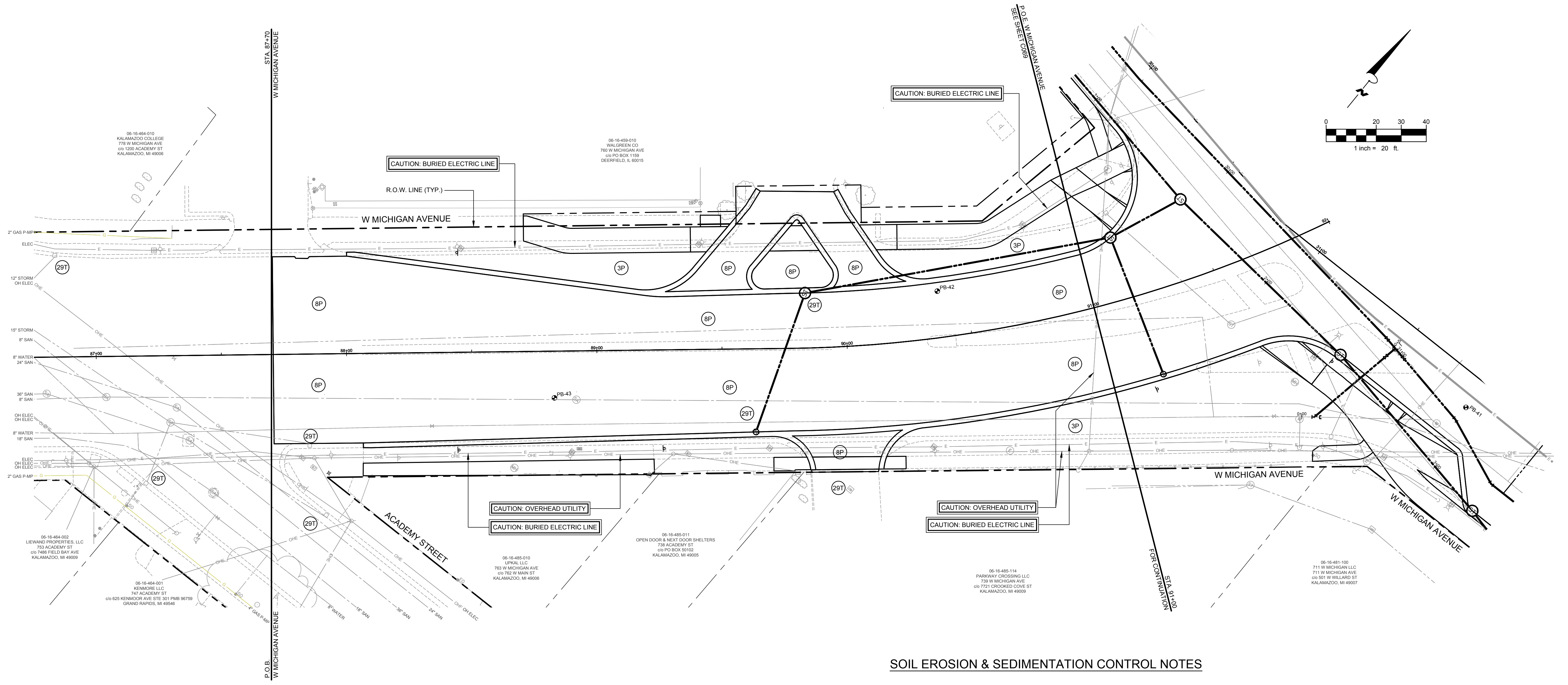
QUANTITIES THIS SHEET	
ITEM	QTY.
Erosion Control, Inlet Protection, Fabric Drop	7 Ea



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01/08/30/2023	PAD	70% SUBMITTAL

REVISIONS

DATE: DECEMBER, 2023
SCALE: 1" = 20'

**SOIL EROSION AND
SEDIMENTATION
CONTROL -
W. MICHIGAN AVE -
STA. 87+70 (P.O.B.) TO STA
91+00 (P.O.E.)**

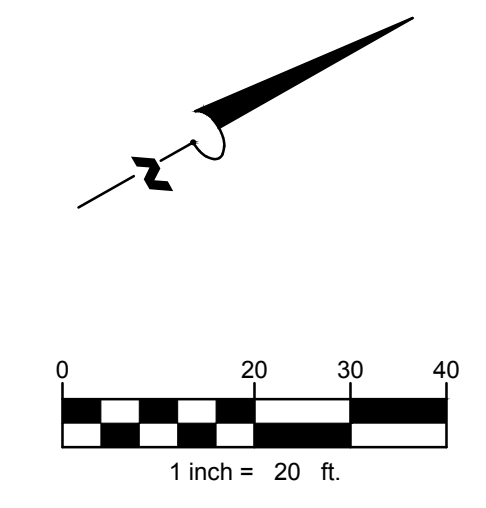
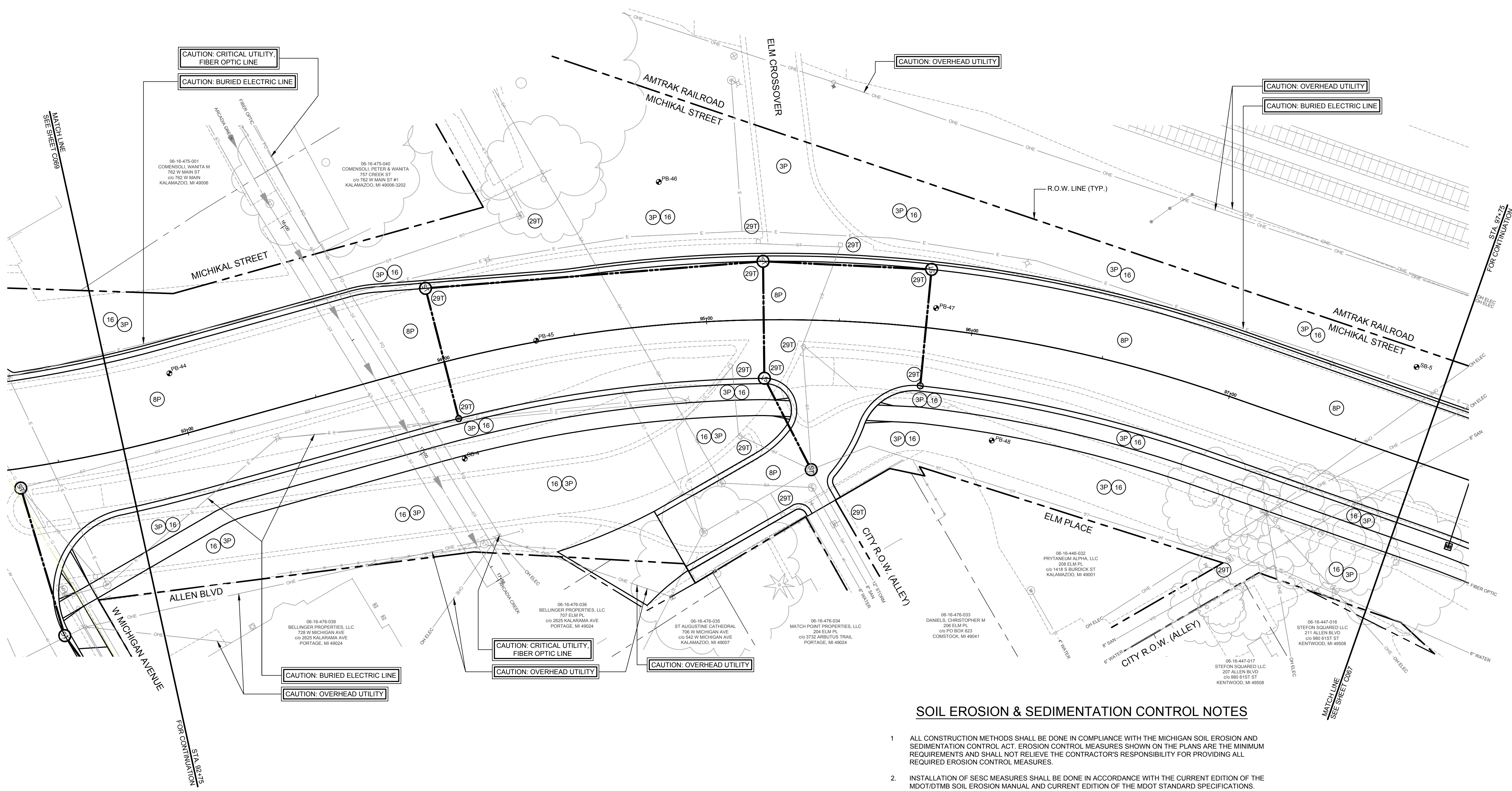
JOB No. 224022
C065
OF 69

QUANTITIES THIS SHEET	
ITEM	QTY.
Erosion Control, Inlet Protection, Fabric Drop	15 Ea



WIGHTMAN
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 KALAMAZOO, MI. 49007
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 6201067363
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**STREETS FOR ALL:
 MICHIKAL IMPROVEMENTS**
 CITY OF
KALAMAZOO
 415 E STOCKBRIDGE AVENUE
 KALAMAZOO, MI 49001



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SOIL EROSION AND SEDIMENTATION CONTROL - MICHIKAL - STA. 92+75 (P.O.B.) TO STA. 97+75

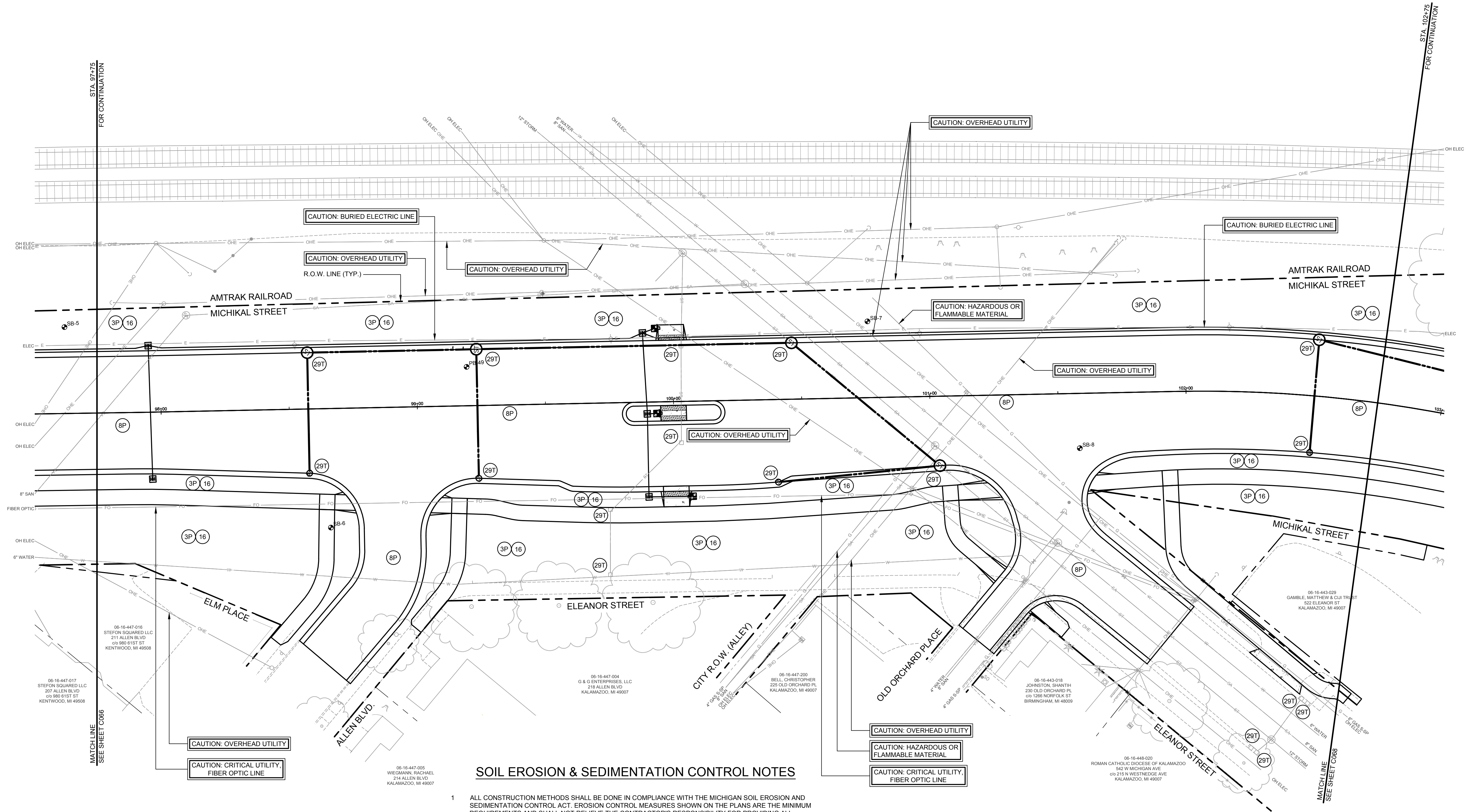
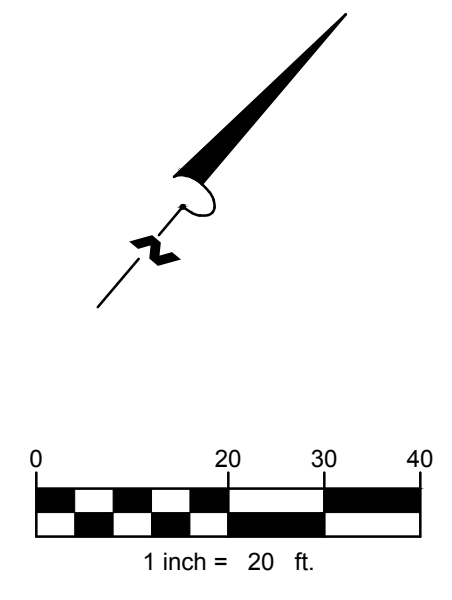
JOB No. 224022
C066
 OF 69

QUANTITIES THIS SHEET	
ITEM	QTY.
Erosion Control, Inlet Protection, Fabric Drop	17 Ea



WIGHTMAN
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www.wightman.com

PHILIP A. DOORLAG
 6201067363
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**STREETS FOR ALL:
 MICHICAL
 IMPROVEMENTS**
 CITY OF
KALAMAZOO
 415 E STOCKBRIDGE AVENUE
 KALAMAZOO, MI 49001



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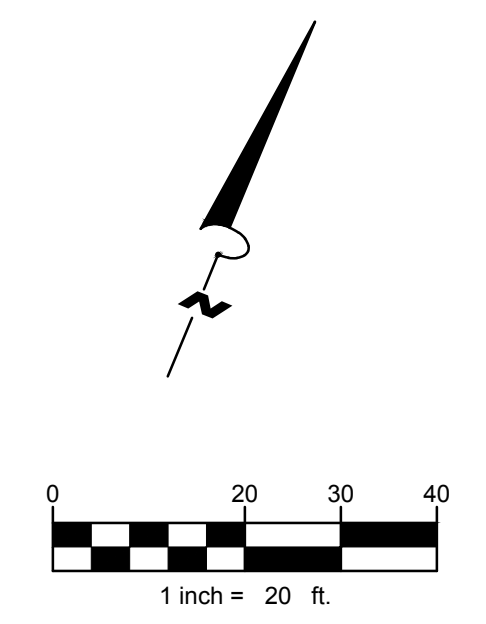
**SOIL EROSION AND
 SEDIMENTATION
 CONTROL -
 MICHICAL -**
 STA. 97+75 TO STA. 102+75

JOB No. 224022
C067
 OF 69

QUANTITIES THIS SHEET	
ITEM	QTY.
Erosion Control, Inlet Protection, Fabric Drop	25 Ea

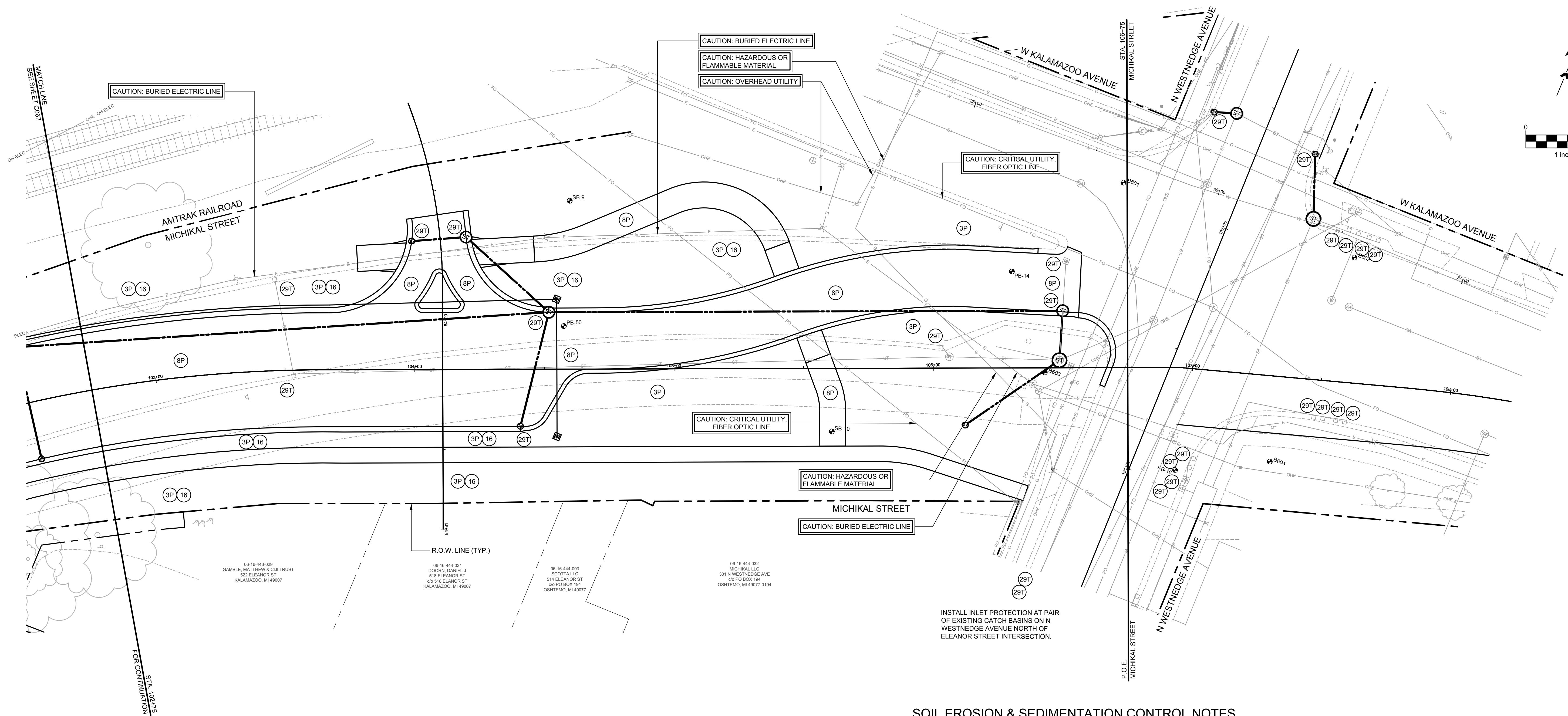


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- 3P DENOTES PERMANENT SEEDING. ALL DISTURBED AREAS NOT PAVED OR GRAVELED SHALL BE RESTORED. PLACE TOPSOIL SURFACE, FURN OR SALV, 4 INCH, MDT SEEDING, MIXTURE TUF APPLIED AT A RATE OF 220 LB/ACRE, FERTILIZER, CHEMICAL NUTRIENT, CL A APPLIED AT A RATE OF 176 LB/ACRE; MULCH AT A RATE OF 2 TON/ACRE AND MULCH ANCHORING. (APPLIES TO ENTIRE PROJECT)
- 8P DENOTES AGGREGATE COVER/PERMANENT PAVEMENT RESTORATION
- 16 DENOTES TREES, SHRUBS AND PERENNIALS
- 29T DENOTES TEMPORARY SILT FENCE. SILT FENCE SHALL BE INSTALLED AT CREEK CROSSINGS, ADJACENT TO ALL WETLANDS AND SURFACE WATERS, AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. EACH SILT FENCE SHALL BE INSTALLED GENERALLY ALONG THE SAME CONTOUR ELEVATION.
- 29T DENOTES INLET PROTECTION FABRIC DROP. SHALL BE INSTALLED AT EXISTING AND PROPOSED STORM SEWER INLETS TO PROVIDE SETTLING AND FILTERING OF SILT LADEN WATER PRIOR TO ENTRY INTO THE DRAINAGE SYSTEM.

05/12/2023	PAD
ISSUED FOR BIDDING	
04/10/25/2023	PAD
90% SUBMITTAL	
01/08/30/2023	PAD
70% SUBMITTAL	
REVISIONS	
DATE: DECEMBER, 2023	
SCALE: 1" = 20'	

SOIL EROSION AND SEDIMENTATION CONTROL - MICHIKAL - STA. 102+75 TO STA. 106+75 (P.O.E.)
JOB No. 224022
C068
OF 69

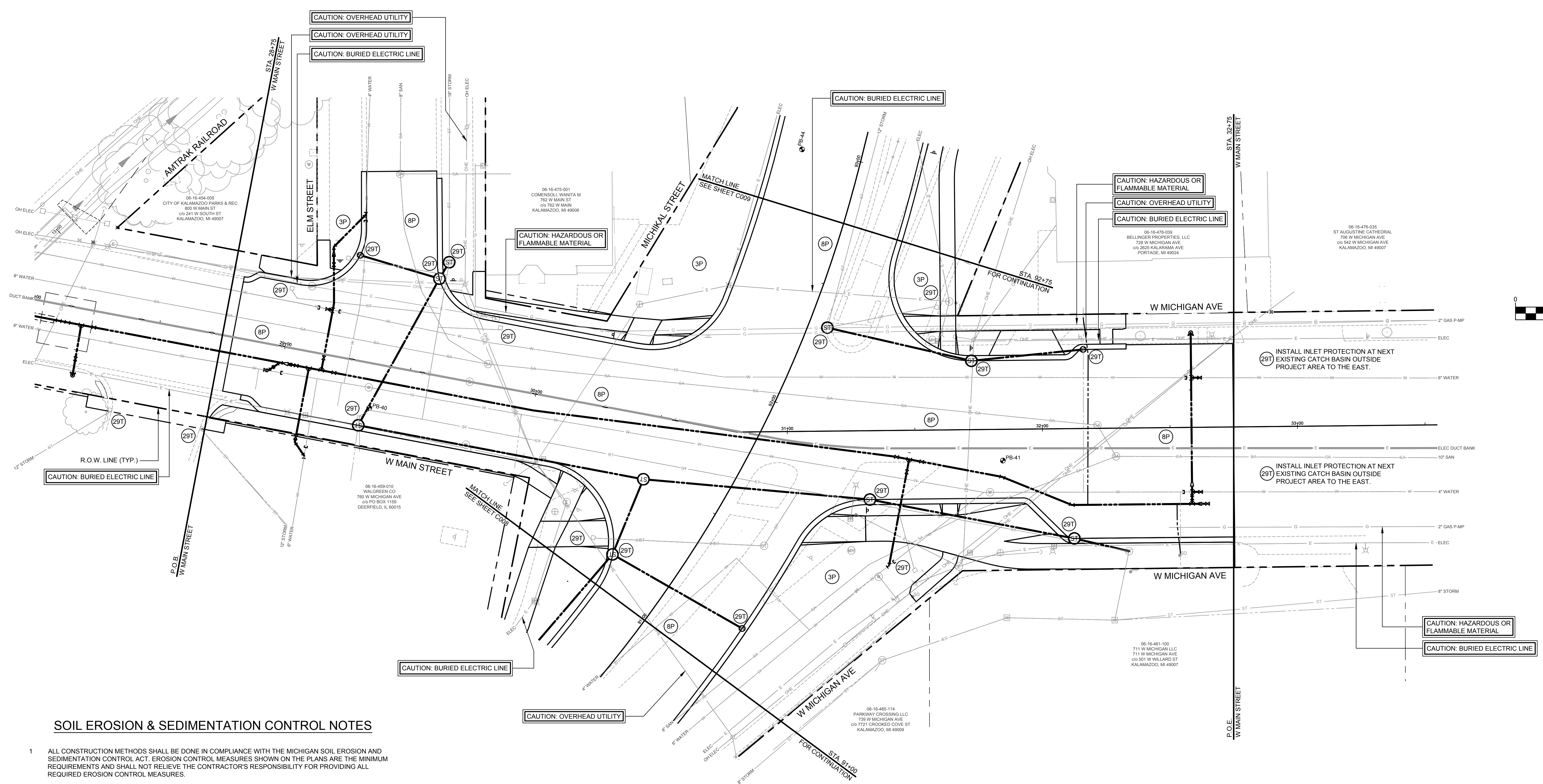
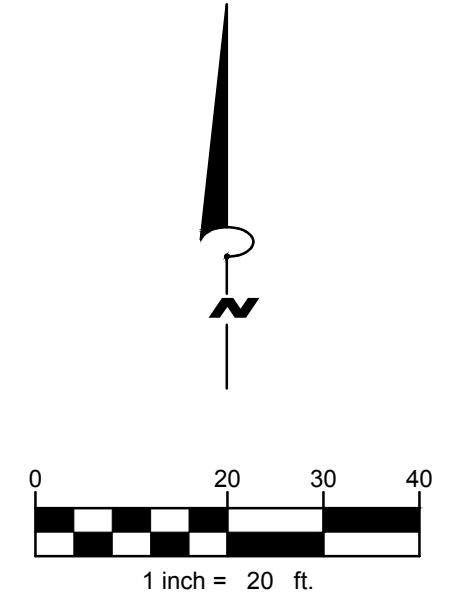
QUANTITIES THIS SHEET	
ITEM	QTY.
Erosion Control, Inlet Protection, Fabric Drop	18 Ea



WIGHTMAN
433 E. RANSOM ST.
KALAMAZOO, MI. 49007
269.327.3532
www.wightman.com

PHILIP A. DOORLAG
6201067363
PROJECT NAME:
**STREETS FOR ALL:
MICHICAL
IMPROVEMENTS**

**CITY OF
KALAMAZOO**
415 E STOCKBRIDGE AVENUE
KALAMAZOO, MI 49001



SOIL EROSION & SEDIMENTATION CONTROL NOTES

- ALL CONSTRUCTION METHODS SHALL BE DONE IN COMPLIANCE WITH THE MICHIGAN SOIL EROSION AND SEDIMENTATION CONTROL ACT. EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS AND SHALL NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR PROVIDING ALL REQUIRED EROSION CONTROL MEASURES.
 - INSTALLATION OF SESC MEASURES SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MDT/DTMB SOIL EROSION MANUAL AND CURRENT EDITION OF THE MDT STANDARD SPECIFICATIONS. REFER TO THE APPROPRIATE MANUAL FOR PROPER MAINTENANCE AND INSTALLATION OF SESC MEASURES.
 - AVOID UNNECESSARY DISTURBING OR REMOVING OF EXISTING VEGETATED TOPSOIL OR EARTH COVER. THESE COVER AREAS ACT AS SEDIMENT FILTERS.
 - ALL TEMPORARY SOIL EROSION PROTECTION SHALL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEAN UP AND APPROVAL.
 - GEOTEXTILE SILT FENCE SHALL BE INSTALLED AS REQUIRED WHEN CROSSING CREEKS OR WHEN ADJACENT TO WETLANDS OR SURFACE WATER BODIES TO PREVENT SILTATION AND ELSEWHERE AS DIRECTED BY THE ENGINEER. SEEDING AND/OR SODDING SHALL BE INSTALLED ON CREEK BANKS IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.
 - MAINTENANCE, CLEANING, AND REMOVAL OF THE VARIOUS SEDIMENT CONTROL MEASURES SHALL BE INCLUDED IN THE VARIOUS EROSION CONTROL ITEMS.
 - CLEAN ADJACENT ROADWAY WHEN NECESSARY.
 - WATER SITE WHEN NECESSARY TO PREVENT AIRBORNE SEDIMENT TRANSFER.
 - TO PREVENT OFFSITE TRACKING OF SEDIMENT, SWEEP THE ROADWAY AND CURB WEEKLY OR AS DIRECTED BY THE ENGINEER. IF SWEEPING IS LIKELY TO CREATE EXCESSIVE DUST, WET / DAMPEN SEDIMENTS PRIOR TO SWEEPING.
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**SOIL EROSION AND
SEDIMENTATION
CONTROL -
W. MAIN -
STA. 28+75 (P.O.B.) TO STA.
32+75 (P.O.E.)**