

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES AND INSTALLATION OR USE THEREOF SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (LATEST EDITION).
2. MAINTAIN ENTRANCE ACCESS WITH TEMPORARY SURFACING AS NEEDED.
3. PHASE 1 SHALL BE CONSTRUCTED BEFORE ANY SUBSEQUENT PHASES COMMENCE.
4. PHASES 2 THRU 4 MUST BE CONSTRUCTED ONE AT A TIME, BUT MAY BE CONSTRUCTED IN ANY ORDER.
5. PHASE 5 MAY BE CONSTRUCTED AT ANY TIME AND CONCURRENT WITH ANY PHASE SOUTH OF 6TH STREET.

TRAFFIC CONTROL GENERAL NOTES

PHASE 1: ARKANSAS ST. FROM 7TH TO 9TH

1. THE INTERSECTION OF ARKANSAS ST. & 7TH ST. WILL BE CLOSED TO TRAFFIC. DETOUR ROUTE WILL BE ALONG MICHIGAN, MISSOURI, 6TH, & 8TH.
2. NO PARKING WILL BE ALLOWED ALONG ARKANSAS.
3. THE NORTHERN MOST LANE OF 9TH WILL BE CLOSED AT ARKANSAS WITH TRAFFIC SHIFTED TO ADJACENT LANE.

PHASE 2: MICHIGAN ST. FROM 2ND TO 4TH

1. NO PARKING WILL BE ALLOWED ALONG MICHIGAN.
2. NORTHBOUND LANE ON MICHIGAN BETWEEN 3RD & 4TH WILL BE CLOSED. DETOUR ROUTE WILL BE ALONG 3RD, 4TH, & FLORIDA.
3. SOUTHBOUND TRAFFIC BETWEEN 3RD & 4TH WILL CONTINUE TO USE MICHIGAN AS A ONE-WAY ROADWAY.

PHASE 3: MICHIGAN ST. FROM 4TH TO 7TH

1. THE INTERSECTION OF MICHIGAN & 5TH WILL BE CLOSED TO TRAFFIC. DETOUR ROUTE WILL BE ALONG ARKANSAS, FLORIDA, 4TH, & 6TH.
2. THE NORTH LEG OF THE INTERSECTION AT MICHIGAN & 6TH WILL BE CLOSED. DETOUR ROUTE WILL BE ALONG FLORIDA, 5TH, & 6TH. THE NORTHERN MOST THRU-LANE AND RIGHT TURN LANE ON 6TH WILL ALSO BE CLOSED WITH TRAFFIC SHIFTED TO THE ADJACENT LANE.
3. THE 5TH ST. & 6TH ST. CLOSURES ALONG MICHIGAN CANNOT TAKE PLACE CONCURRENTLY. ONE INTERSECTION MUST REMAIN OPEN AT ALL TIMES.

PHASE 4: 7TH ST. FROM MICHIGAN TO ARKANSAS

1. 7TH ST. WILL BE CLOSED FROM MICHIGAN TO MICHIGAN. DETOUR ROUTE WILL BE ALONG MICHIGAN, ARKANSAS, 6TH, & 8TH.

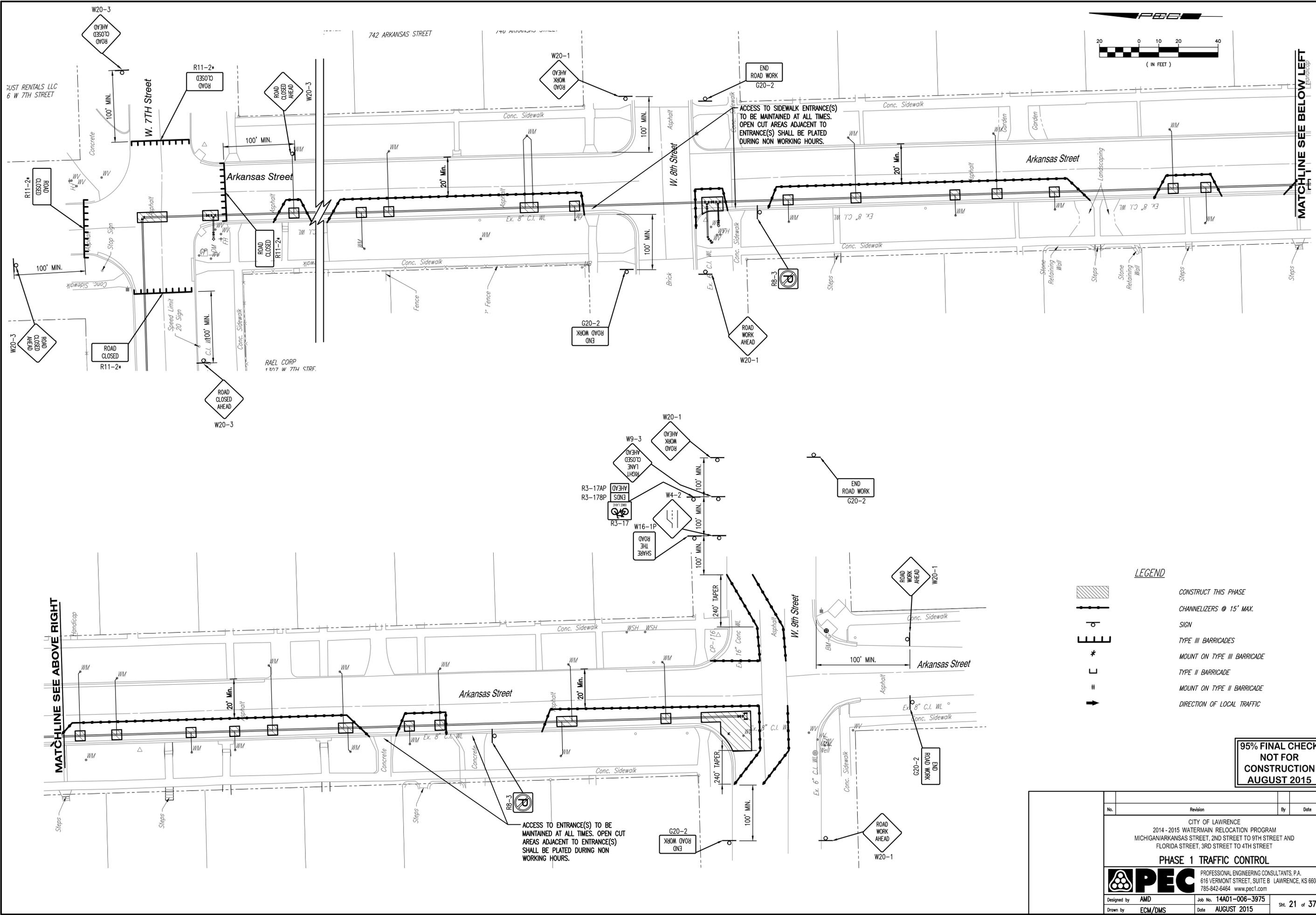
PHASE 5: FLORIDA ST. FROM 3RD TO 4TH

1. AS THE WORK IS NOT LOCATED WITHIN THE ROADWAY, THE CONTRACTOR SHALL USE ACCEPTABLE TRAFFIC CONTROL MEASURES, AS NEEDED, FOR THE MOBILIZATION AND STORAGE OF EQUIPMENT.
2. CONTRACTOR MAY CLOSE THE ROAD TO THRU TRAFFIC, LOCAL ACCESS ONLY, FOLLOWING APPROVAL FROM PROJECT ENGINEER.

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CONSTRUCTION
JULY 2015**

No.	Revision	By	Date
CITY OF LAWRENCE 2014 - 2015 WATERMAIN RELOCATION PROGRAM MICHIGAN/ARKANSAS STREET, 2ND STREET TO 9TH STREET AND FLORIDA STREET, 3RD STREET TO 4TH STREET TRAFFIC CONTROL CONSTRUCTION SEQUENCE			
 PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 616 VERMONT STREET, SUITE B LAWRENCE, KS 66044 785-842-6464 www.pec1.com			
Designed by	AMD	Job No.	14A01-006-3975
Drawn by	ECM/DMS	Date	JULY 2015
			Sht. 20 of 37

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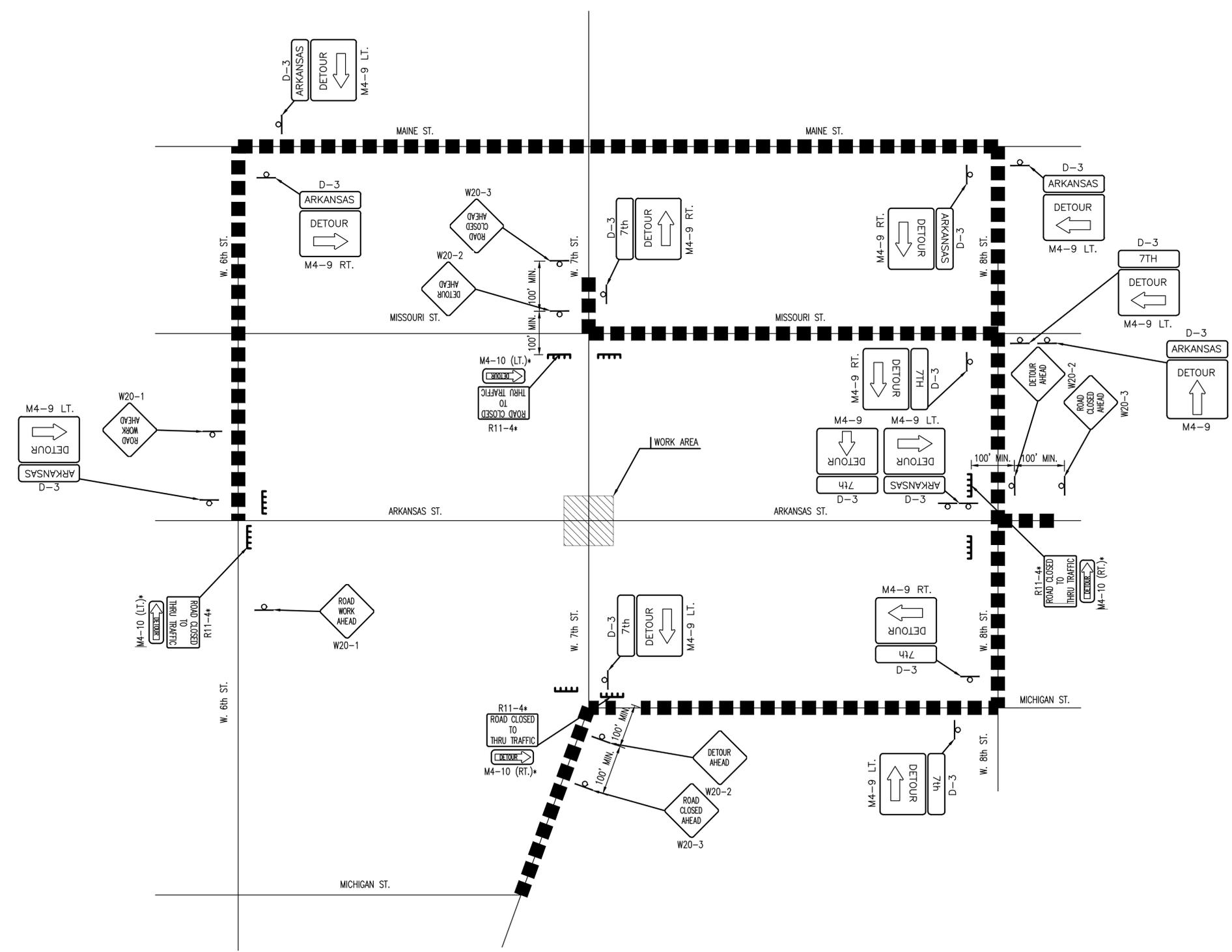
MATCHLINE SEE BELOW LEFT

LEGEND

-  CONSTRUCT THIS PHASE
-  CHANNELIZERS @ 15' MAX.
-  SIGN
-  TYPE III BARRICADES
-  MOUNT ON TYPE III BARRICADE
-  TYPE II BARRICADE
-  MOUNT ON TYPE II BARRICADE
-  DIRECTION OF LOCAL TRAFFIC

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AUGUST 2015**

No.	Revision	By	Date
	CITY OF LAWRENCE 2014 - 2015 WATERMAIN RELOCATION PROGRAM MICHIGAN/ARKANSAS STREET, 2ND STREET TO 9TH STREET AND FLORIDA STREET, 3RD STREET TO 4TH STREET PHASE 1 TRAFFIC CONTROL		
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Designed by	AMD	Job No.	14401-006-3975
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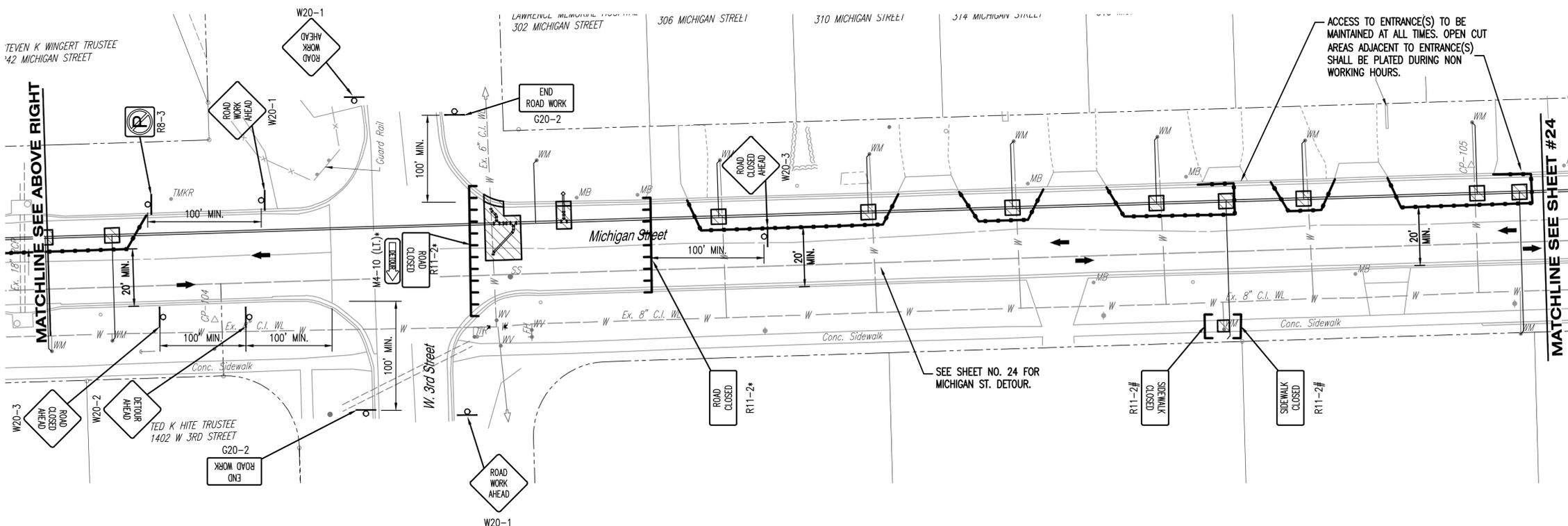
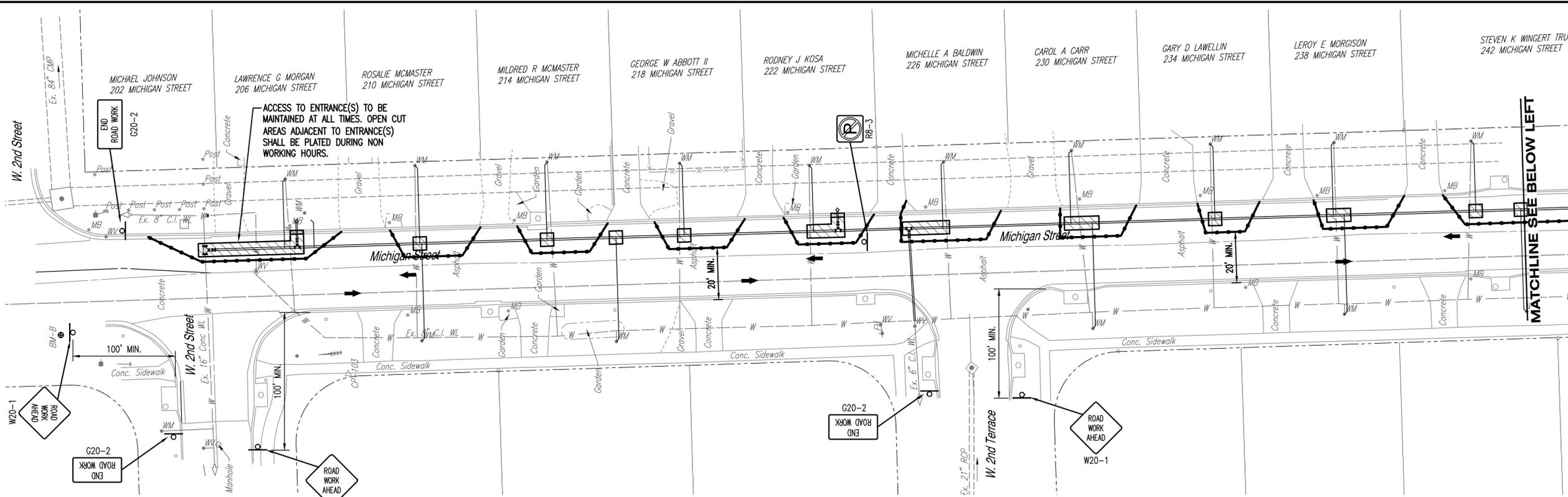
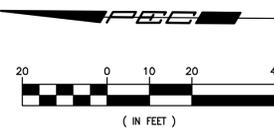
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- CONSTRUCT THIS PHASE
- CHANNELIZERS @ 15' MAX.
- SIGN
- TYPE III BARRICADES
- MOUNT ON TYPE III BARRICADE
- TYPE II BARRICADE
- MOUNT ON TYPE II BARRICADE
- DIRECTION OF LOCAL TRAFFIC

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CITY OF LAWRENCE 2014 - 2015 WATERMAIN RELOCATION PROGRAM MICHIGAN/ARKANSAS STREET, 2ND STREET TO 9TH STREET AND FLORIDA STREET, 3RD STREET TO 4TH STREET PHASE 1 DETOUR PLAN			
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 616 VERMONT STREET, SUITE B LAWRENCE, KS 66044 785-842-6464 www.pec1.com	
Designed by	AMD	Job No.	14A01-006-3975
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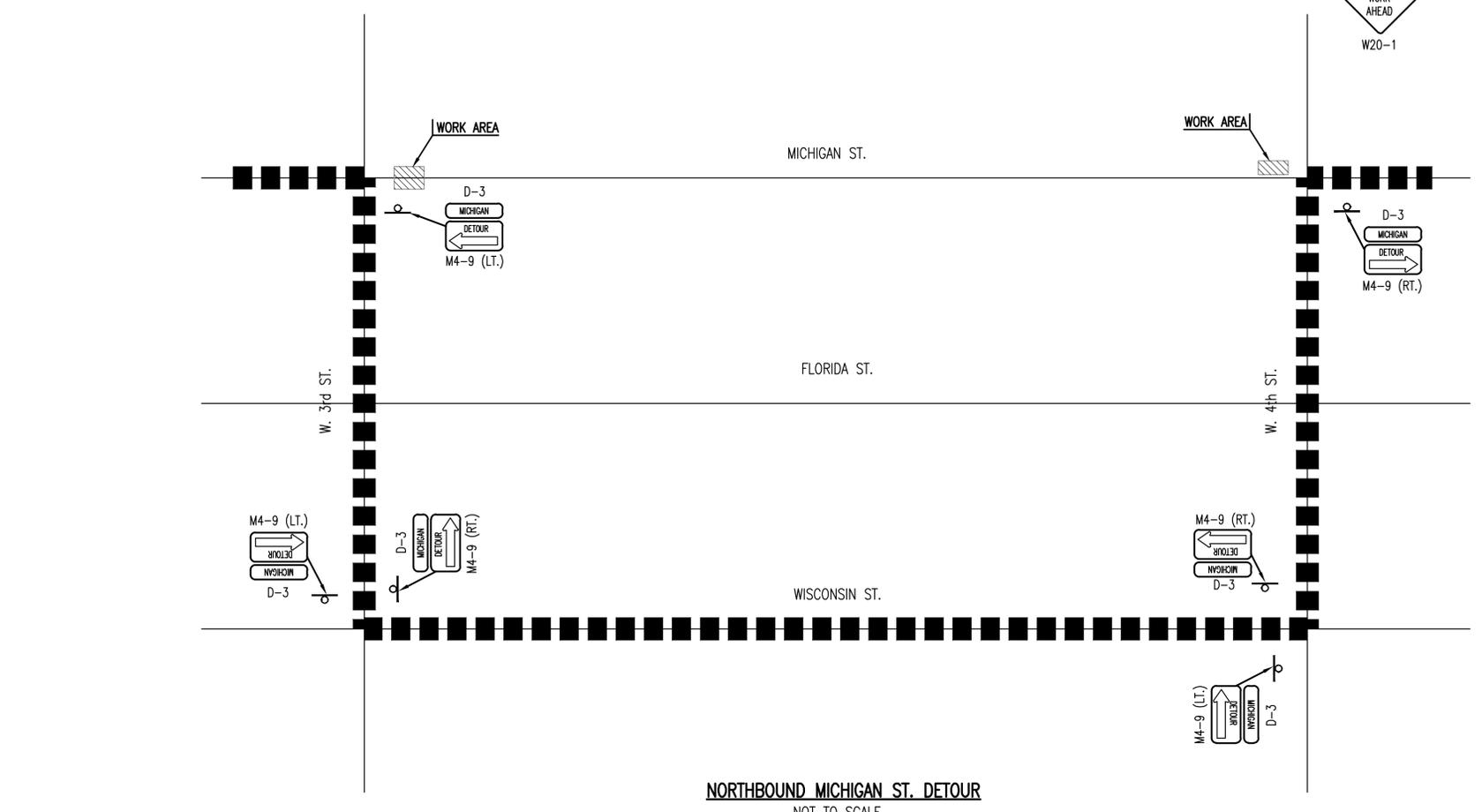
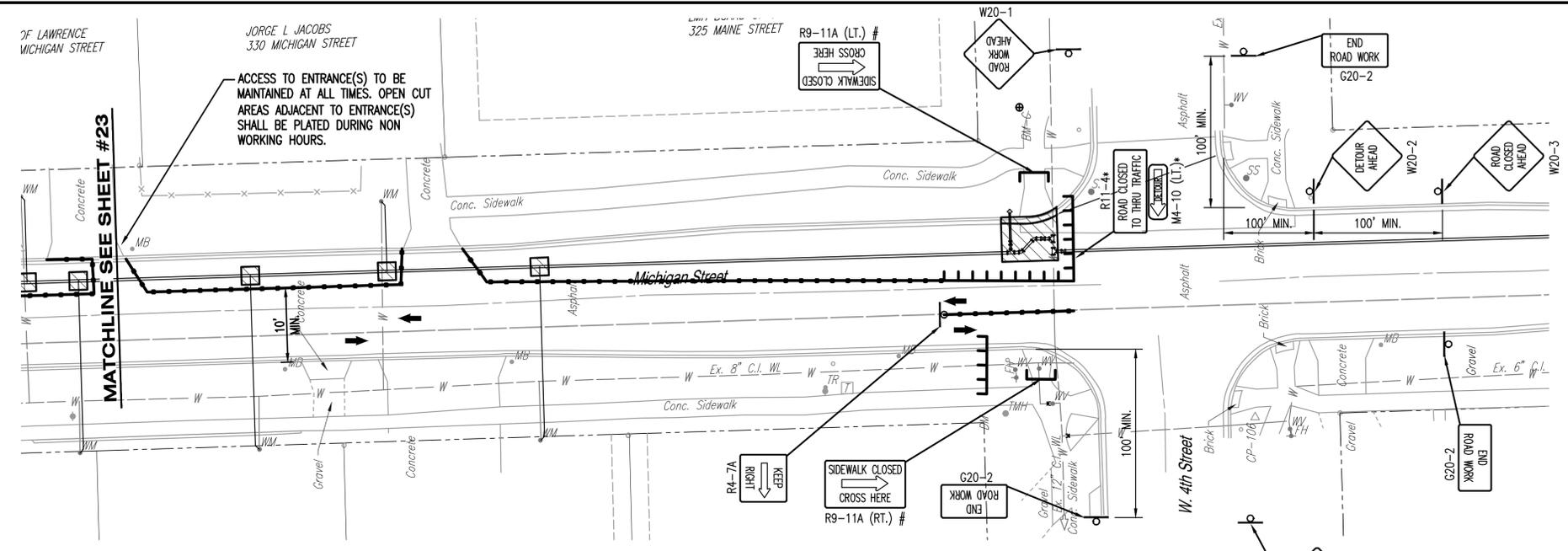
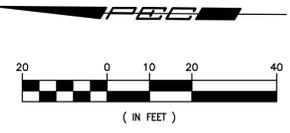
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- CONSTRUCT THIS PHASE
- CHANNELIZERS @ 15' MAX.
- SIGN
- TYPE III BARRICADES
- MOUNT ON TYPE III BARRICADE
- TYPE II BARRICADE
- MOUNT ON TYPE II BARRICADE
- DIRECTION OF LOCAL TRAFFIC

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No.	Revision	By	Date
CITY OF LAWRENCE 2014 - 2015 WATERMAIN RELOCATION PROGRAM MICHIGAN/ARKANSAS STREET, 2ND STREET TO 9TH STREET AND FLORIDA STREET, 3RD STREET TO 4TH STREET PHASE 2 TRAFFIC CONTROL			
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 616 VERMONT STREET, SUITE B LAWRENCE, KS 66044 785-842-6464 www.pec1.com	
Designed by	AMD	Job No.	14A01-006-3975
Drawn by	ECM/DMS	Date	AUGUST 2015
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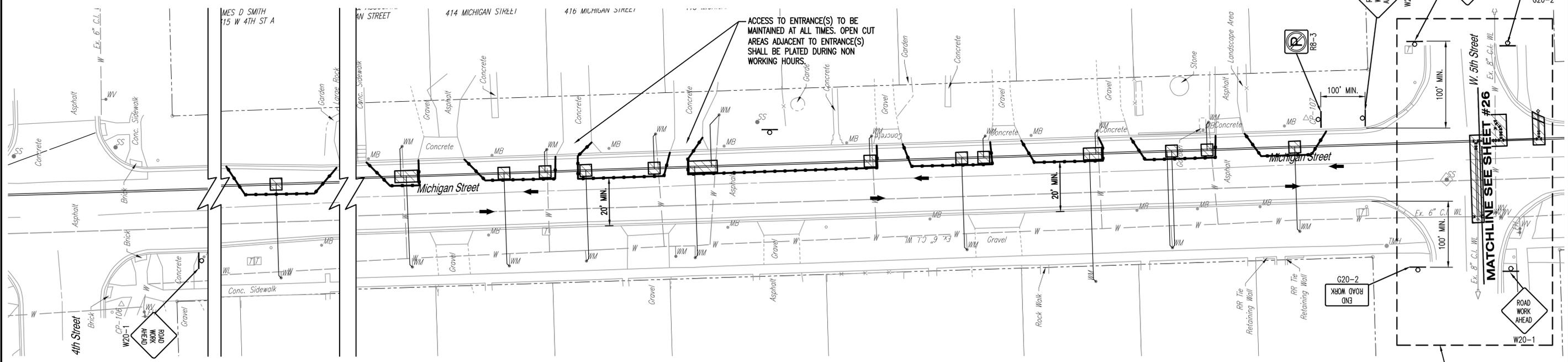
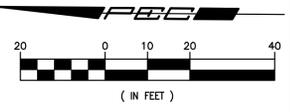


- LEGEND**
- CONSTRUCT THIS PHASE
 - CHANNELIZERS @ 15' MAX.
 - SIGN
 - TYPE III BARRICADES
 - MOUNT ON TYPE III BARRICADE
 - TYPE II BARRICADE (DETECTABLE)
 - MOUNT ON TYPE II BARRICADE
 - DIRECTION OF LOCAL TRAFFIC

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AUGUST 2015**

No.	Revision	By	Date
CITY OF LAWRENCE 2014 - 2015 WATERMAIN RELOCATION PROGRAM MICHIGAN/ARKANSAS STREET, 2ND STREET TO 9TH STREET AND FLORIDA STREET, 3RD STREET TO 4TH STREET PHASE 2 TRAFFIC CONTROL & DETOUR			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 616 VERMONT STREET, SUITE B LAWRENCE, KS 66044 785-842-6464 www.pec1.com			
Designed by	AMD	Job No.	14A01-006-3975
Drawn by	ECM/DMS	Date	AUGUST 2015
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SEE SHEET NO. 28 FOR MICHIGAN ST. & W. 5th ST. CLOSURE & DETOUR.

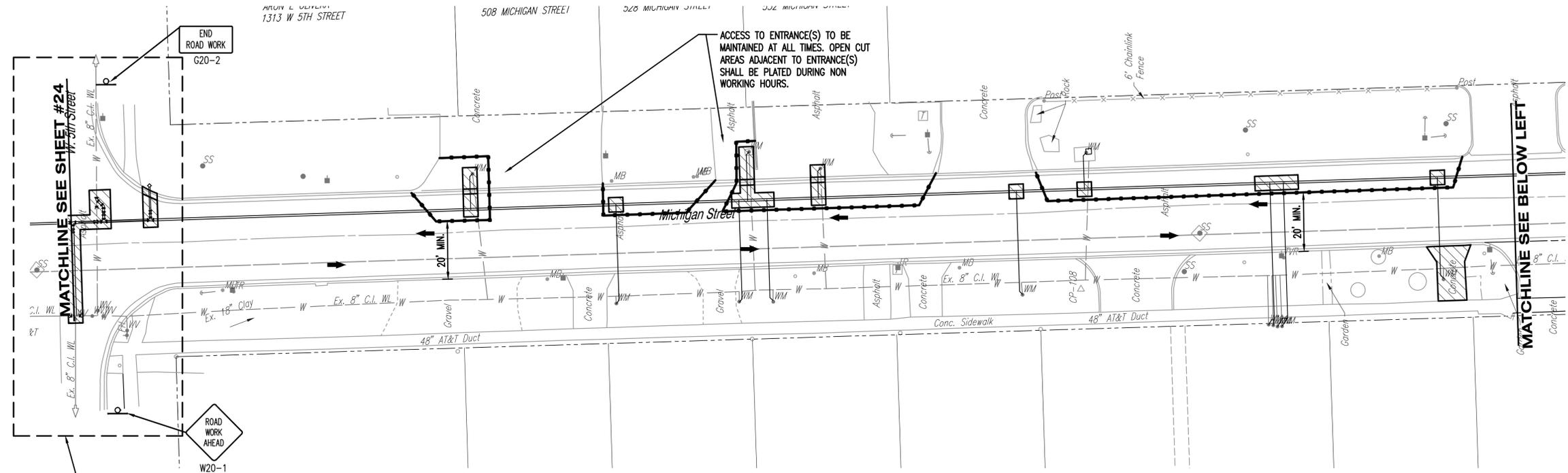
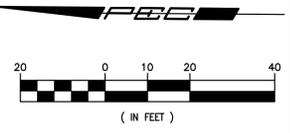
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-  CONSTRUCT THIS PHASE
-  CHANNELIZERS @ 15' MAX.
-  SIGN
-  TYPE III BARRICADES
-  MOUNT ON TYPE III BARRICADE
-  TYPE II BARRICADE
-  MOUNT ON TYPE II BARRICADE
-  DIRECTION OF LOCAL TRAFFIC

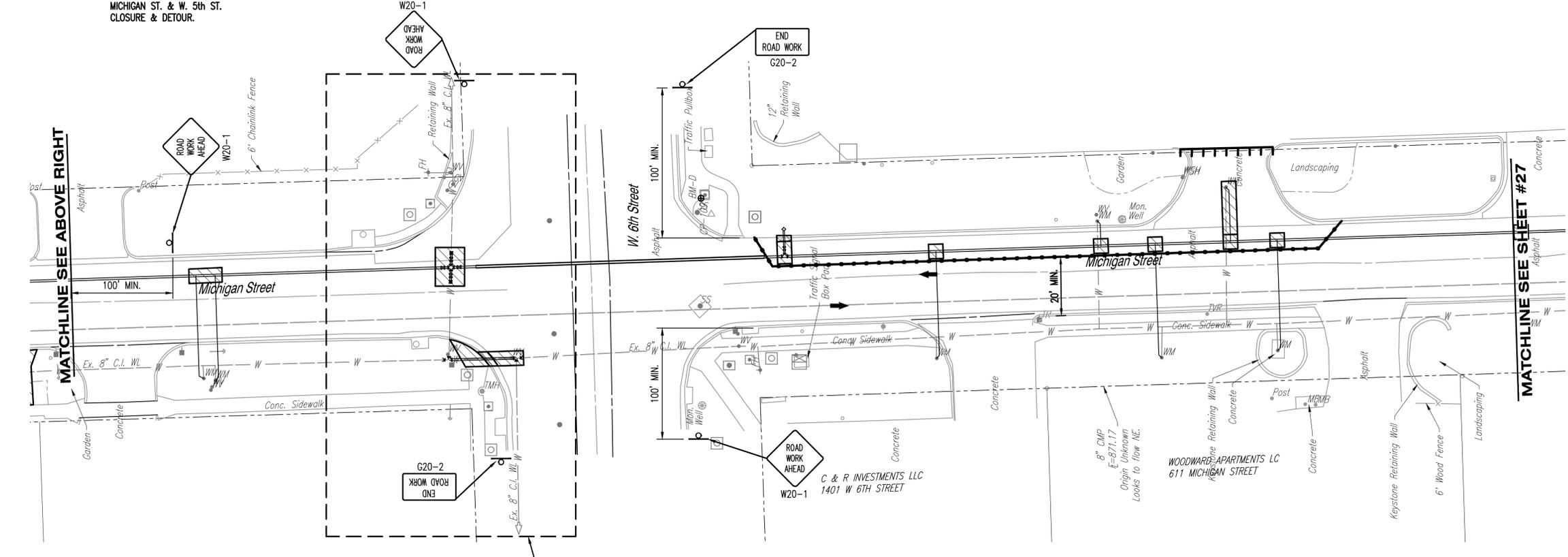
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AUGUST 2015**

No.	Revision	By	Date
CITY OF LAWRENCE 2014 - 2015 WATERMAIN RELOCATION PROGRAM MICHIGAN/ARKANSAS STREET, 2ND STREET TO 9TH STREET AND FLORIDA STREET, 3RD STREET TO 4TH STREET PHASE 3 TRAFFIC CONTROL 01			
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 616 VERMONT STREET, SUITE B LAWRENCE, KS 66044 785-842-6464 www.pec1.com	
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			Sht. 25 of 37

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SEE SHEET NO. 28 FOR MICHIGAN ST. & W. 5th ST. CLOSURE & DETOUR.



SEE SHEET NO. 28 FOR MICHIGAN ST. & W. 6th ST. CLOSURE & DETOUR.

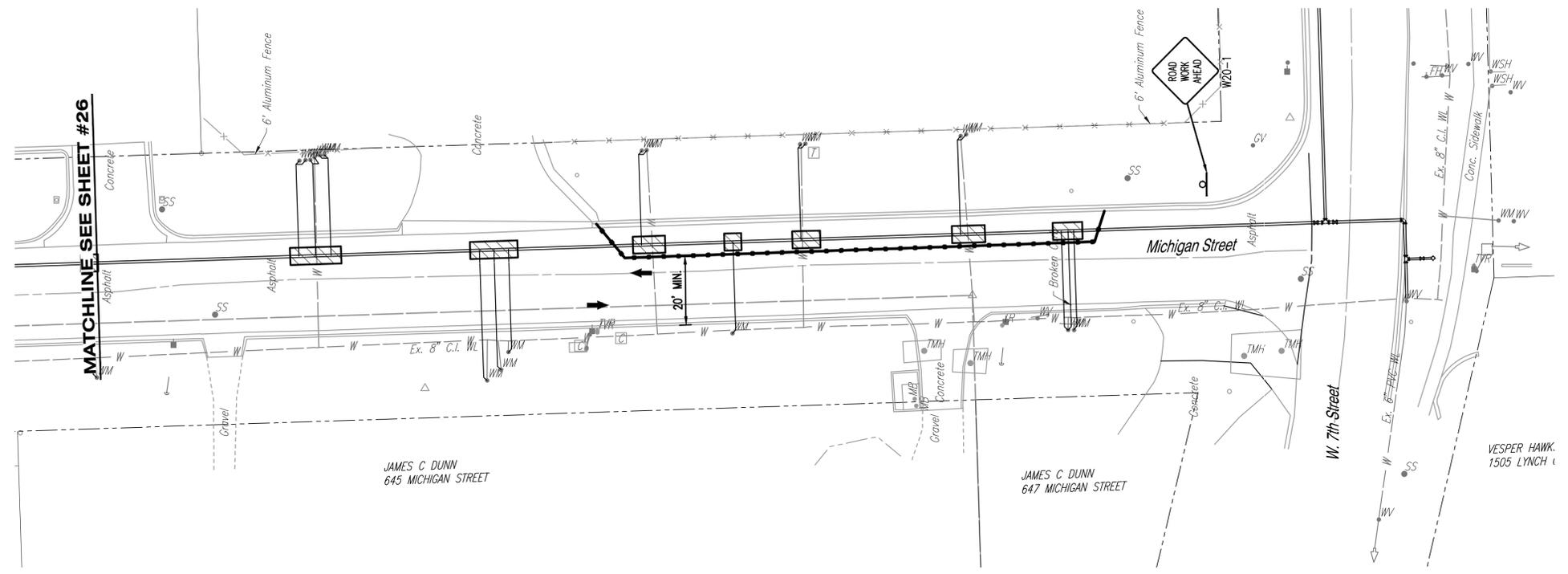
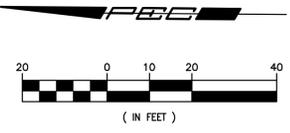
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- CONSTRUCT THIS PHASE
- CHANNELIZERS @ 15' MAX.
- SIGN
- TYPE III BARRICADES
- MOUNT ON TYPE III BARRICADE
- TYPE II BARRICADE
- MOUNT ON TYPE II BARRICADE
- DIRECTION OF LOCAL TRAFFIC

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No.	Revision	By	Date
CITY OF LAWRENCE 2014 - 2015 WATERMAIN RELOCATION PROGRAM MICHIGAN/ARKANSAS STREET, 2ND STREET TO 9TH STREET AND FLORIDA STREET, 3RD STREET TO 4TH STREET PHASE 3 TRAFFIC CONTROL 02			
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 616 VERMONT STREET, SUITE B LAWRENCE, KS 66044 785-842-6464 www.pec1.com	
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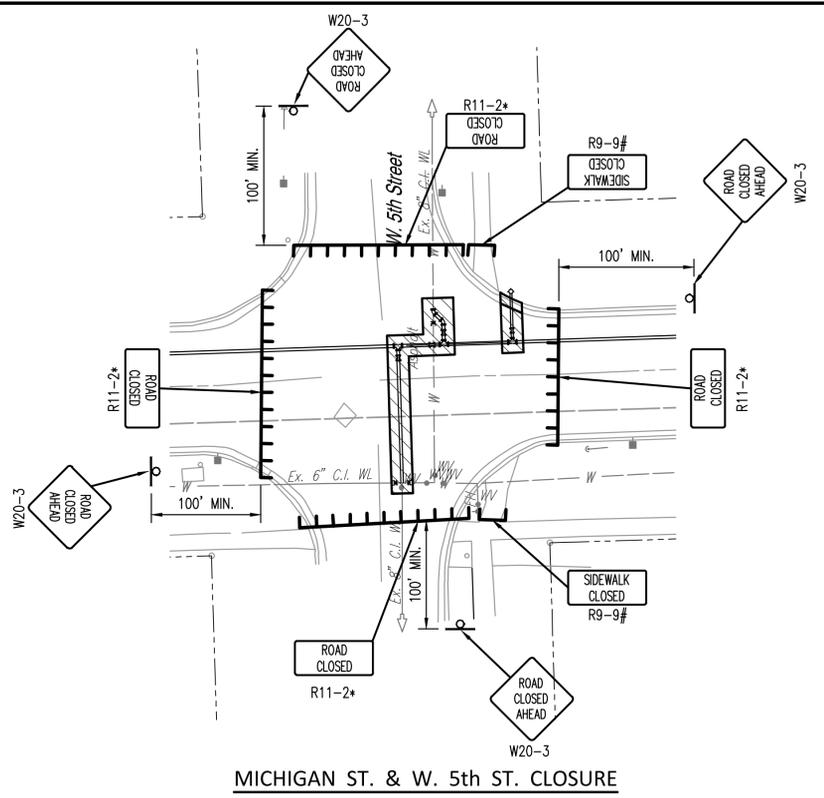
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-  CHANNELIZERS @ 15' MAX.
-  SIGN
-  TYPE III BARRICADES
-  MOUNT ON TYPE III BARRICADE
-  TYPE II BARRICADE
-  MOUNT ON TYPE II BARRICADE
-  DIRECTION OF LOCAL TRAFFIC

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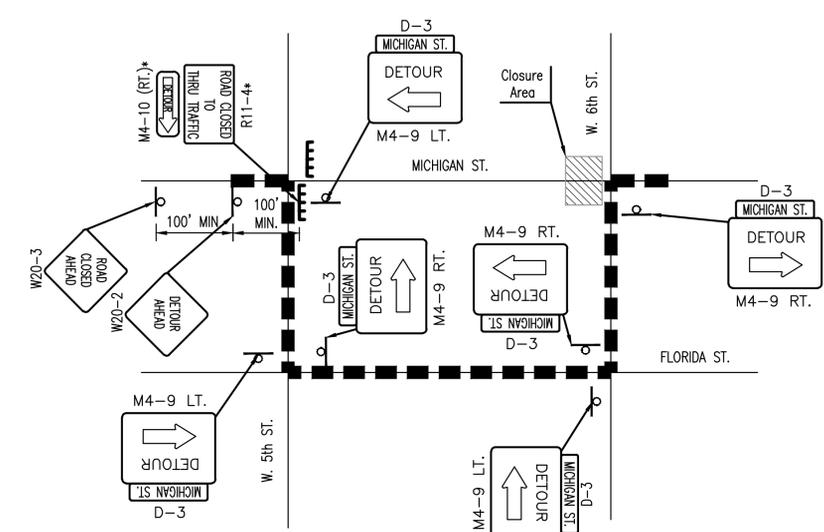
No.	Revision	By	Date
CITY OF LAWRENCE 2014 - 2015 WATERMAIN RELOCATION PROGRAM MICHIGAN/ARKANSAS STREET, 2ND STREET TO 9TH STREET AND FLORIDA STREET, 3RD STREET TO 4TH STREET PHASE 3 TRAFFIC CONTROL 03			
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 616 VERMONT STREET, SUITE B LAWRENCE, KS 66044 785-842-6464 www.pec1.com	
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			Sht. 27 of 37

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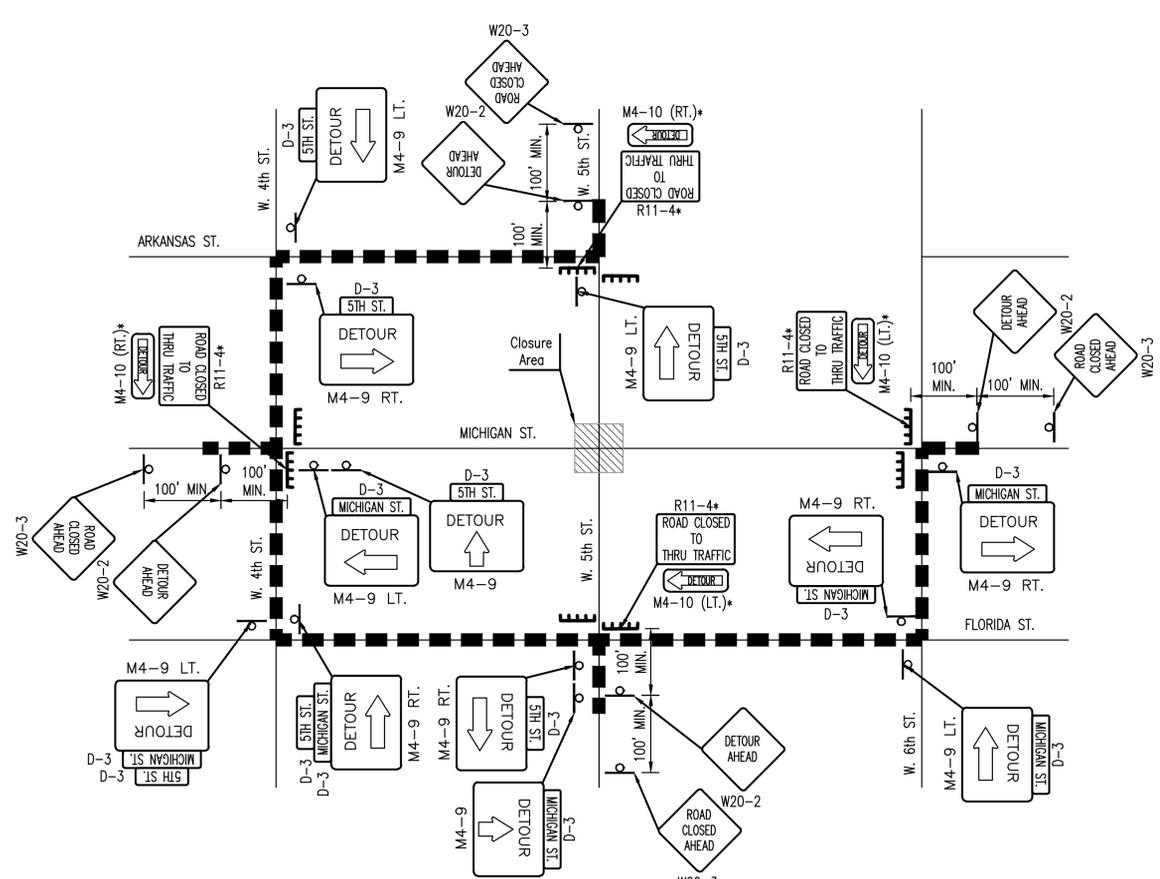
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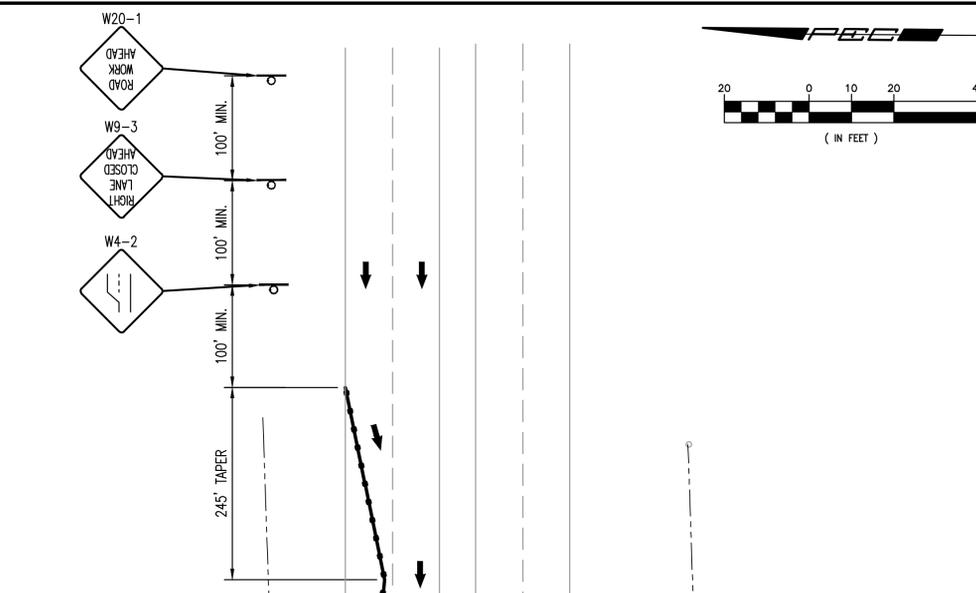
MICHIGAN ST. & W. 5th ST. CLOSURE



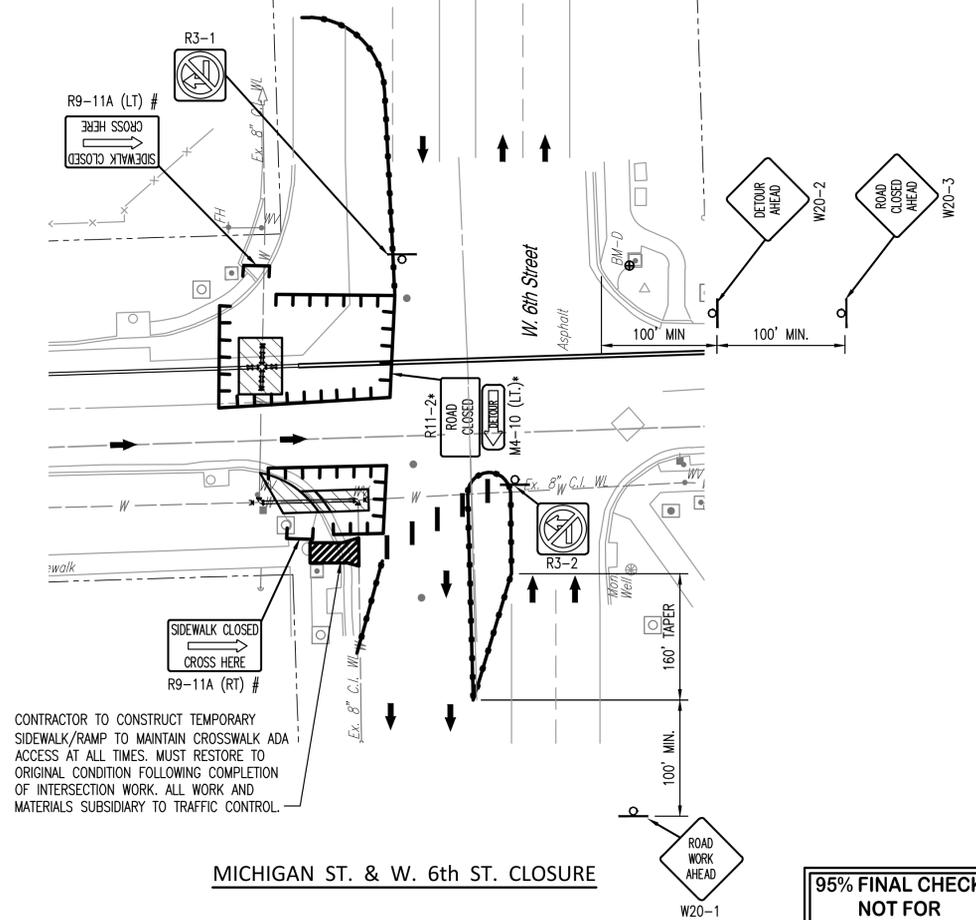
MICHIGAN ST. & W. 6th ST. DETOUR
 NOT TO SCALE



MICHIGAN ST. & W. 5th ST. DETOUR
 NOT TO SCALE



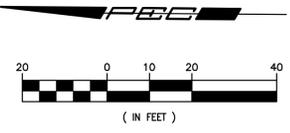
ACCESS TO ENTRANCE TO BE MAINTAINED AT ALL TIMES. OPEN CUT AREAS ADJACENT TO ENTRANCE SHALL BE PLATED DURING NON WORK HOURS.



MICHIGAN ST. & W. 6th ST. CLOSURE

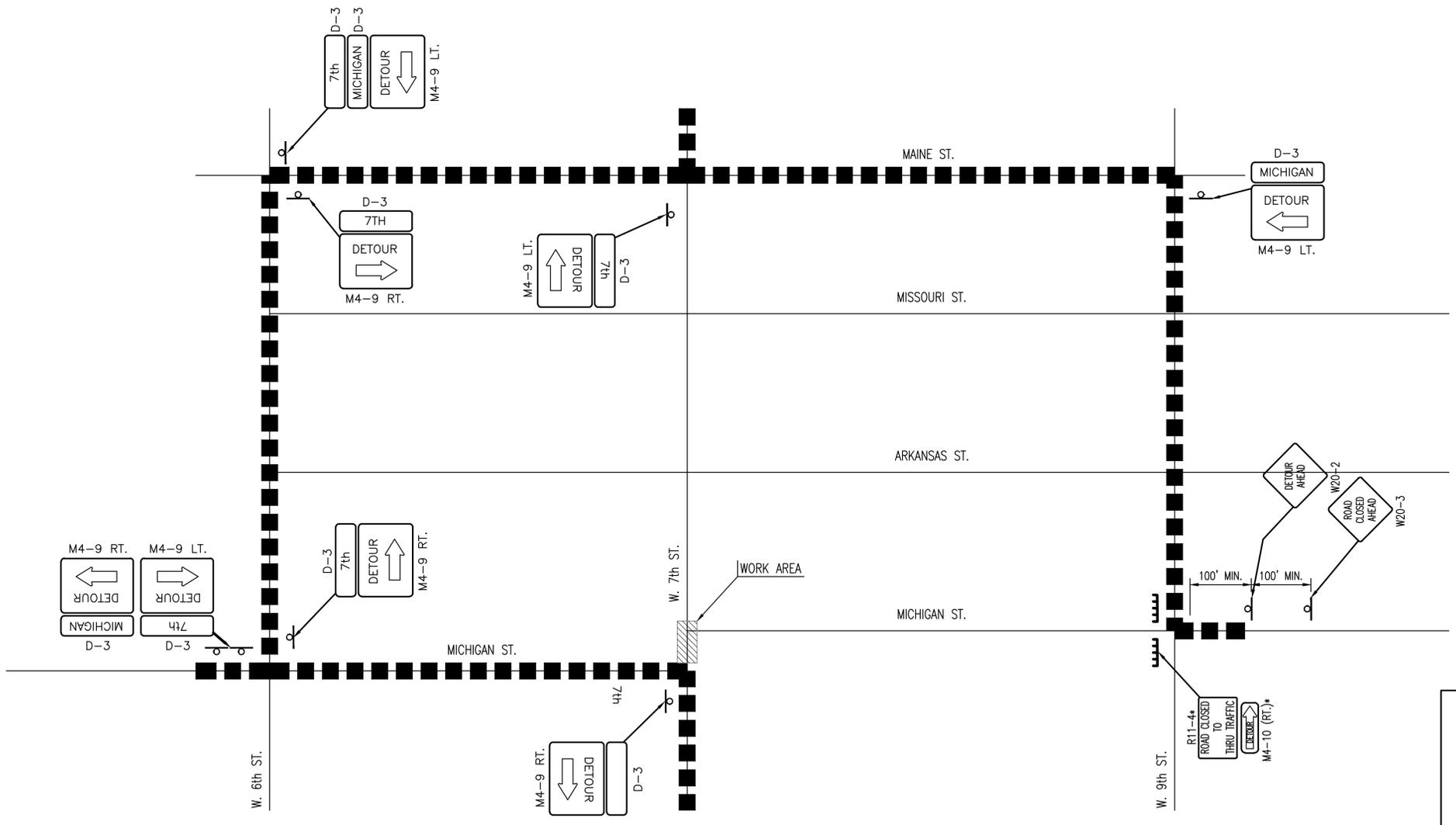
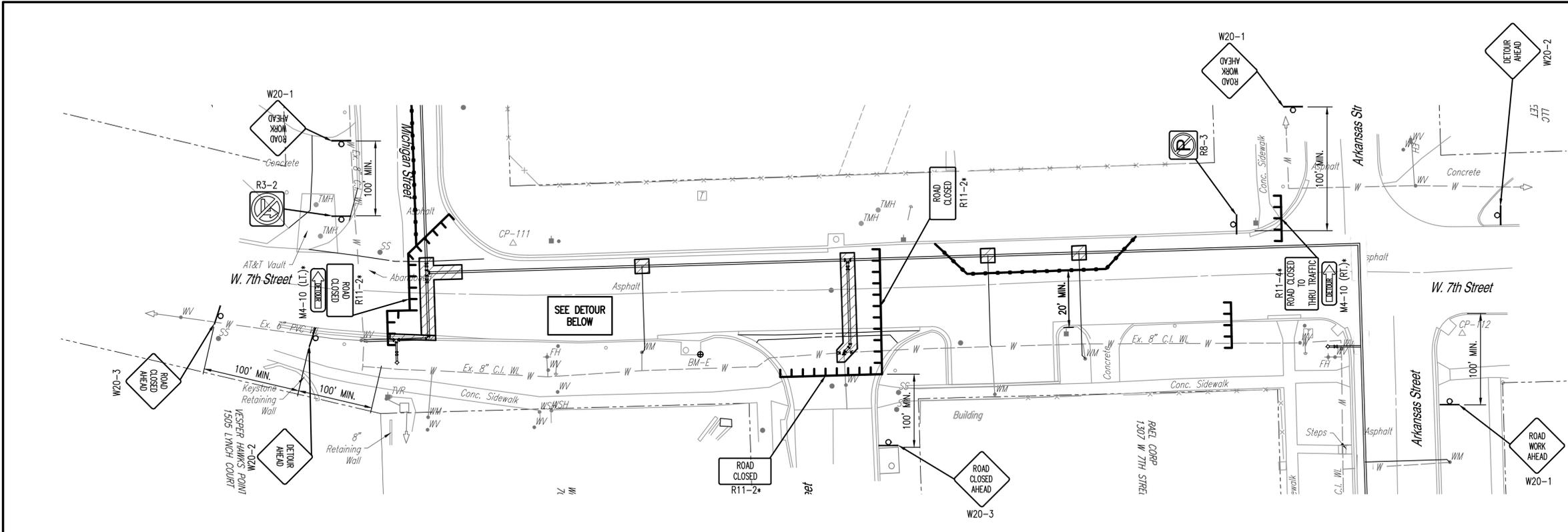
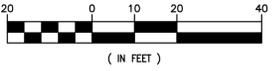
LEGEND

- CONSTRUCT THIS PHASE
- CHANNELIZERS @ 15' MAX.
- SIGN
- TYPE III BARRICADES
- MOUNT ON TYPE III BARRICADE
- TYPE II BARRICADE (DETECTABLE)
- MOUNT ON TYPE II BARRICADE
- DIRECTION OF LOCAL TRAFFIC



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CITY OF LAWRENCE 2014 - 2015 WATERMAIN RELOCATION PROGRAM MICHIGAN/ARKANSAS STREET, 2ND STREET TO 9TH STREET AND FLORIDA STREET, 3RD STREET TO 4TH STREET PHASE 3 TRAFFIC CONTROL & DETOURS			
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DETOUR PLAN
NOT TO SCALE

LEGEND

- CONSTRUCT THIS PHASE
- CHANNELIZERS @ 15' MAX.
- SIGN
- TYPE III BARRICADES
- MOUNT ON TYPE III BARRICADE
- TYPE II BARRICADE
- MOUNT ON TYPE II BARRICADE
- DIRECTION OF LOCAL TRAFFIC

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CITY OF LAWRENCE 2014 - 2015 WATERMAIN RELOCATION PROGRAM MICHIGAN/ARKANSAS STREET, 2ND STREET TO 9TH STREET AND FLORIDA STREET, 3RD STREET TO 4TH STREET PHASE 4 TRAFFIC CONTROL & DETOUR			
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 616 VERMONT STREET, SUITE B LAWRENCE, KS 66044 785-842-6464 www.pec1.com	
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			Sht. 29 of 37

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TRAFFIC CONTROL NOTES

- ALL TRAFFIC CONTROL DEVICES AND INSTALLATION OR USE THEREOF SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (LATEST EDITION).
- ALL SIGNS SHALL BE POST MOUNTED IF NON PAVEMENT AREAS ARE AVAILABLE. POSTS SHALL BE 4"x4" WOOD OR OTHER BREAK AWAY MATERIAL AS APPROVED BY THE ENGINEER. SIGNS WITH A MINIMUM AREA OF 16 SQUARE FEET SHALL BE MOUNTED ON TWO POSTS.
- ALL TRAFFIC CONTROL DEVICES SHALL BE CRASHWORTHY. "CRASHWORTHY" DEVICES ARE THOSE THAT HAVE PASSED A CRASH TEST CONDUCTED UNDER THE GUIDELINES OF NCHRP REPORT 350.
- ADJUSTMENT OF LONGITUDINAL DIMENSIONS FOR SIGN SPACING MAY BE REQUIRED BY THE ENGINEER TO ENSURE THAT EFFECTIVE AND SAFE CONDITIONS EXIST UNDER ACTUAL FIELD CONDITIONS. SIGN SPACING SHOULD BE AS UNIFORM AS POSSIBLE.
- BARRICADES ARE TO BE SET AT LOCATIONS SHOWN ON THE TRAFFIC CONTROL PLAN SHEETS OR AS DIRECTED BY THE ENGINEER. SUFFICIENT BARRICADES SHALL BE ERECTED TO ADEQUATELY COVER THE ROADWAY OR LANE WIDTH. THE BARRICADES MAY BE MOUNTED ON APPROVED SKIDS ANCHORED BY WIRE OR SANDBAGS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SIGNS AND DEVICES IN THEIR PROPER POSITION, CLEANING AND/OR REPLACING ANY DAMAGED OR ILLEGIBLE SIGN OR DEVICE AS DIRECTED BY THE ENGINEER WITHOUT UNDUE DELAY TO ENSURE EFFECTIVE AND SAFE TRAFFIC CONTROL.
- THE CONTRACTOR SHALL DESIGNATE AN EMPLOYEE, AND AN ALTERNATE, WHO WILL HAVE THE RESPONSIBILITY FOR SIGNING AND TRAFFIC CONTROL AS NOTED ON THE TRAFFIC CONTROL PLAN AND SHALL BE AVAILABLE 24 HOURS A DAY, 7 DAYS A WEEK, TO PERFORM THE ABOVE MAINTENANCE. THE ENGINEER WILL BE ADVISED OF THE NAME AND TELEPHONE NUMBER OF THE PERSON AND ALTERNATE GIVEN THIS RESPONSIBILITY.
- CHANNELIZATION DEVICES: DEVICES AS USED HEREIN INCLUDE BUT IS NOT LIMITED TO BARRICADES, BARRIERS, CONES, DRUMS AND VERTICAL PANELS.
 - THE MAXIMUM SPACING BETWEEN CHANNELIZATION DEVICES IN A TAPER, MEASURED IN FEET, SHOULD BE APPROXIMATELY EQUAL TO THE EXISTING SPEED LIMIT PRIOR TO ANY WORK.
 - DUE TO EXISTING CONDITIONS THE ENGINEER MAY REQUIRE A DECREASE IN THE SPACING STIPULATED ABOVE.
 - TYPE I OR II BARRICADES SHOULD BE PLACED AT APPROXIMATELY RIGHT ANGLES TO THE CENTER OF THE ROADWAY OR SIDEWALK.
 - DRUMS SHALL BE REFLECTORIZED FULL CIRCUMFERENCE AND MAY BE SUBSTITUTED FOR TYPE I OR II BARRICADES OR TRAFFIC CONES.
 - FOR NIGHTTIME ALL DEVICES USED FOR CHANNELIZING TRAFFIC SHALL BE FULLY REFLECTORIZED AND, AS DIRECTED BY THE ENGINEER, DISPLAY THE APPROPRIATE WARNING LIGHT ON TOP OF THE DEVICE NEAREST THE TRAVELED WAY CENTERLINE.
 - TRAFFIC CONES SHOULD BE UTILIZED AS CHANNELIZING DEVICES FOR DAYTIME TRAFFIC CONTROL OPERATIONS. IN AREAS DEEMED HAZARDOUS BY THE ENGINEER, SUCH AS OPEN TRENCHES, THEY SHOULD BE SUPPLEMENTED BY OTHER TRAFFIC CONTROL DEVICES AS DIRECTED BY THE ENGINEER. TRAFFIC CONES WILL NOT BE USED FOR NIGHTTIME OPERATIONS.
- AT ALL TIMES AND DURING ALL WEATHER CONDITIONS, ACCESS SHALL BE MAINTAINED FOR LOCAL TRAFFIC TO THE SATISFACTION OF THE ENGINEER.
- ALL "W" SIGNS HAVE A MINIMUM SURFACE AREA OF 9 SQ. FT. ALL OTHER SIGNS SHALL BE OF STANDARD SIZE AS DIRECTED IN THE MUTCD UNLESS SPECIFIED OTHERWISE ON THE TRAFFIC CONTROL PLAN.
- THE CONTRACTOR SHALL GIVE THE CITY OF LAWRENCE, PUBLIC WORKS DEPARTMENT 48 HOURS NOTICE BEFORE ANY CHANGE TO TRAFFIC CONTROL AND TRAFFIC PATTERNS.
- ATTACH TWO FLUORESCENT RED-ORANGE FLAGS AND A RED KDOT SPECIFIED TYPE "B" HIGH INTENSITY WARNING LIGHT TO ANY STOP SIGN THAT CREATES A NEW STOP CONDITION OR MOVES THE STOP CONDITION TO A NEW LOCATION. LEAVE FLAGS AND LIGHTS IN PLACE FOR AT LEAST THE FIRST 30 DAYS. INSTALL W3-1 (SYMBOLIC STOP AHEAD) SIGN IN ADVANCE OF STOP SIGN IF STOP SIGN IS NOT VISIBLE FOR A MINIMUM DISTANCE OF 100 FEET (FOR 40 MPH OR LOWER) OR IF STOP CONDITION IS MOVED TO LESS THAN A DISTANCE OF 100 FEET (FOR 40 MPH OR LOWER) FROM AN EXISTING STOP AHEAD SIGN. DISTANCES FOR 45 MPH OR GREATER ARE AS DETERMINED BY THE ENGINEER.

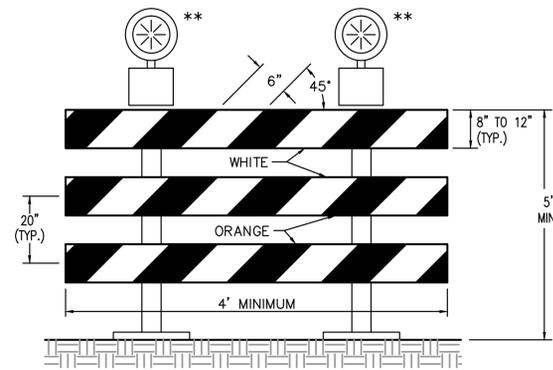
TRAFFIC & PEDESTRIAN CONTROL PLAN

THE CONTRACTOR SHALL PREPARE A SPECIFIC TRAFFIC CONTROL PLAN FOR THE PROJECT IN ACCORDANCE WITH THE MUTCD AND ALL NOTES AND DETAILS ON THIS SHEET. THE CONTRACTOR SHALL SUBMIT THIS PLAN TO THE ENGINEER REPRESENTATIVE, AS A SHOP DRAWING SUBMITTAL. NO WORK SHALL BEGIN IN VEHICULAR AND PEDESTRIAN TRAFFIC AREAS ON THIS PROJECT UNTIL THE SUBMITTAL HAS BEEN REVIEWED AND ACCEPTED BY THE ENGINEER.

CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL SIGNING AND DEVICES AS INDICATED ON THE PLAN AND AS OTHERWISE APPROPRIATE.

LEGEND

- = TYPE III BARRICADE
- ▨ = ARROW PANEL BOARD
- ⊕ = SIGN
- = REFLECTORIZED DRUMS
- ▨ = WORK AREA
- ⊕ = FLAGGER



TYPE III BARRICADE WITH LIGHTS

FOR WOODEN BARRICADES NOMINAL LUMBER DIMENSIONS WILL BE SATISFACTORY. FOR RAILS LESS THAN 3 FEET LONG, 4 INCH WIDE STRIPES MAY BE USED.

WHERE BARRICADES EXTEND ENTIRELY ACROSS A ROADWAY, AND WHERE BOTH RIGHT AND LEFT TURNS ARE PROVIDED FOR, THE CHEVRON STRIPING SHALL SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE ROAD. WHEN A DETOUR IS PROVIDED THE STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN.

** A MINIMUM OF TWO TYPE "A" LIGHTS SHALL BE USED AT EACH LOCATION WHERE A TYPE III BARRICADE OR BARRICADES ARE USED. A LIGHT SHALL BE MOUNTED ON THE OUTSIDE CORNER AT THE END BARRICADES WHEN MORE THAN ONE IS USED. THE LENS SHALL BE A MINIMUM OF 7" IN DIAMETER.

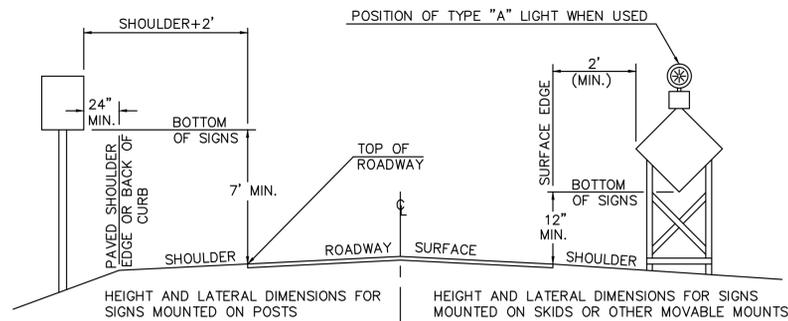
ALL BARRICADES SHALL BE FACED WITH REFLECTIVE SHEETING ON THE FRONT AND BACK FACES.

IN AREAS WHERE TYPE III BARRICADES ARE USED TO CLOSE A ROAD, AN ADEQUATE NUMBER OF TYPE III BARRICADES SHALL BE PROVIDED TO COMPLETELY CLOSE THE ROAD.

WARNING LIGHTS

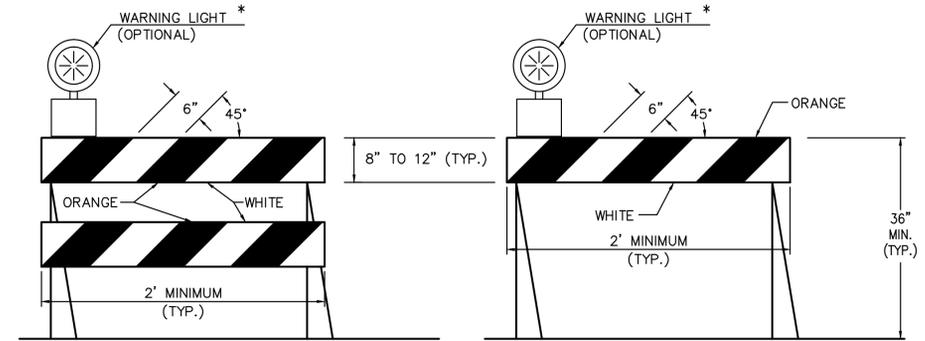
WARNING LIGHTS SHALL BE IN ACCORDANCE WITH THE CURRENT ITE PURCHASE SPECIFICATIONS FOR FLASHING AND STEADY BURN WARNING LIGHTS.

FLASHING WARNING LIGHTS SHALL BE MAINTAINED SO AS TO BE CAPABLE OF BEING VISIBLE FROM A MINIMUM DISTANCE OF 1/2 MILE.



SIGN MOUNTING LOCATIONS

CHANNELIZING DEVICES



TYPE II BARRICADE WITH LIGHT

TYPE I BARRICADE WITH LIGHT

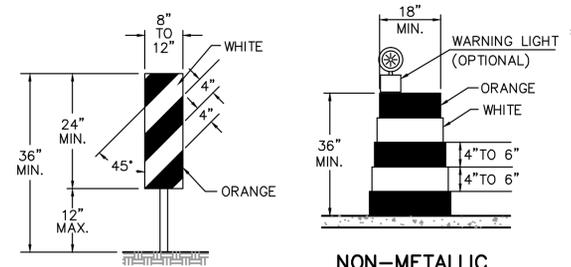
* LIGHTS USED ON CHANNELIZING DEVICES: WHEN USED SINGLY - TYPE "A" FLASHING WHEN USED IN SERIES - TYPE "C" STEADY BURN THE LENS SHALL BE A MINIMUM OF 7" IN DIAMETER.

NOTE:

THE NONMETALLIC DRUMS SHALL BE FULLY REFLECTORIZED WITH TYPE II HIGH PERFORMANCE RETROREFLECTIVE SHEETING. IF THERE ARE NON-REFLECTIVE SPACES BETWEEN ADJACENT STRIPES ON DRUMS, THEY SHALL BE NO MORE THAN 2" WIDE.

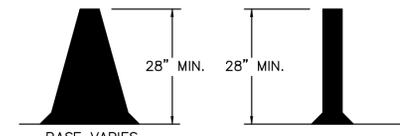
THE ENTIRE AREA OF BARRICADE RAILS AND VERTICAL PANELS ARE TO BE FULLY REFLECTORIZED WITH TYPE II HIGH PERFORMANCE REFLECTIVE SHEETING.

ALL TRAFFIC CONTROL SIGNS SHALL BE REFLECTORIZED WITH FLUORESCENT ORANGE PRISMATIC GRADE REFLECTIVE SHEETING.

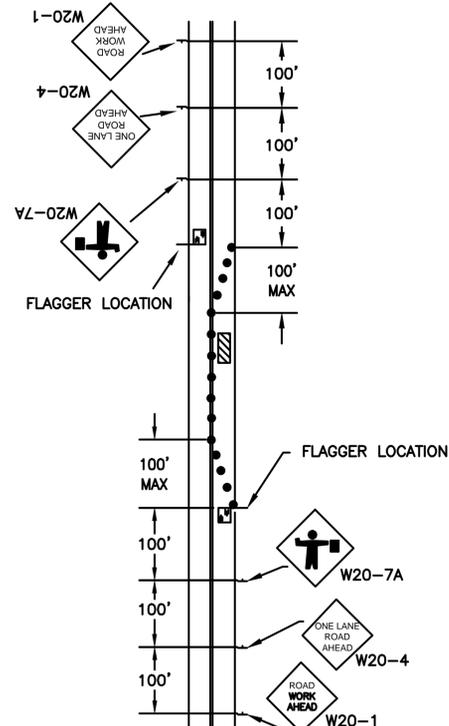


VERTICAL PANEL

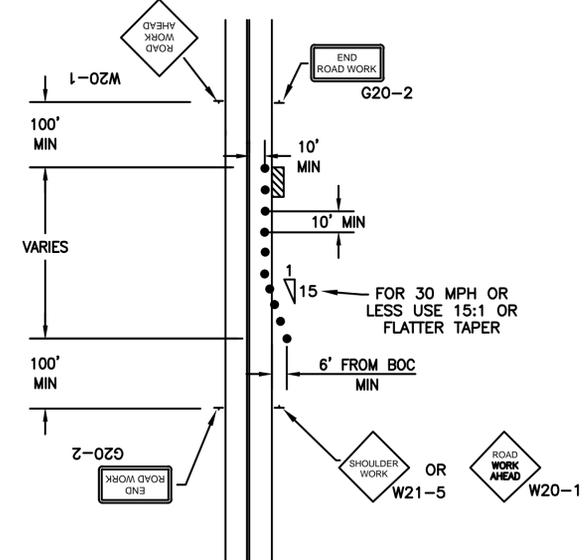
NON-METALLIC REFLECTORIZED DRUM WITH LIGHT



CONES ORANGE IN COLOR



LANE CLOSURE ON TWO-LANE ROAD W/ FLAGGER, DAYTIME ONLY (AS NEEDED)



TYPICAL SHOULDER WORK - TRAFFIC CONTROL (AS NEEDED)

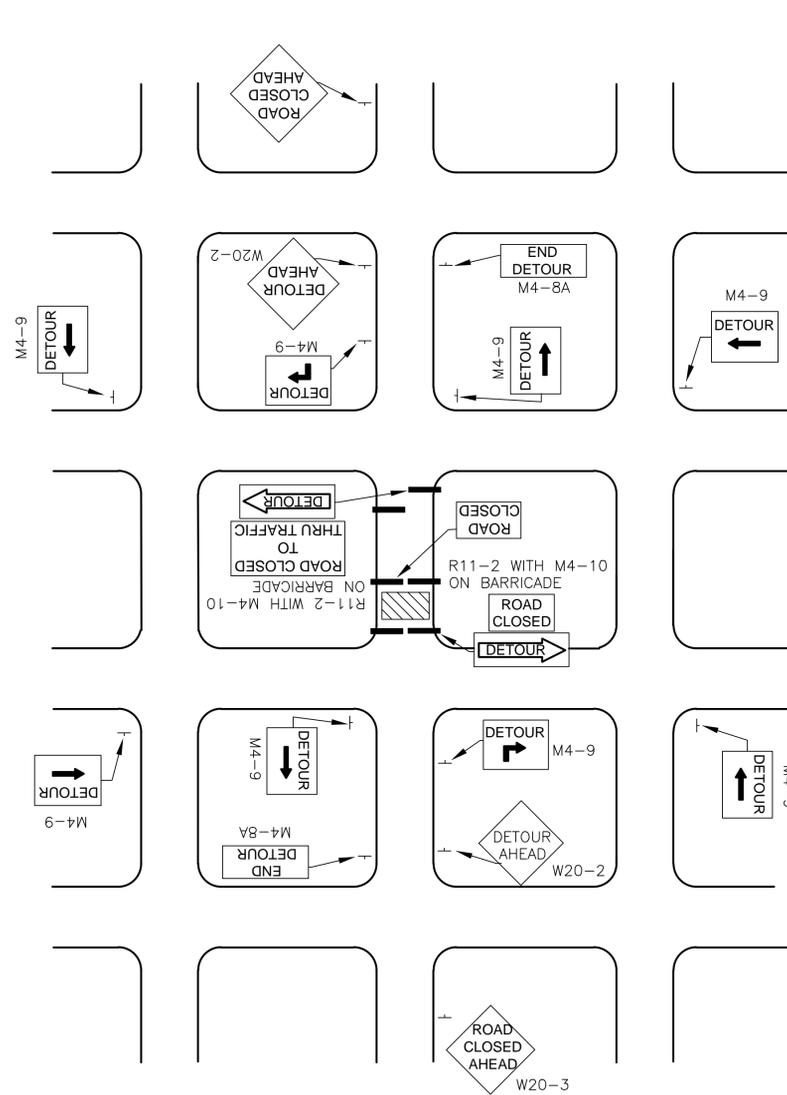
95% FINAL CHECK NOT FOR CONSTRUCTION JULY 2015

CITY OF LAWRENCE
2014-2015 WATERMAIN RELOCATION PROGRAM
MICHIGAN/ARKANSAS STREET, 2ND STREET TO 9TH STREET AND
FLORIDA STREET, 3RD STREET TO 4TH STREET
TRAFFIC CONTROL DETAILS

DESIGNED BY: M/S
DRAWN BY: DMS/ECM
JOB NO.: 14A01-006-3975
DATE: JULY 2015

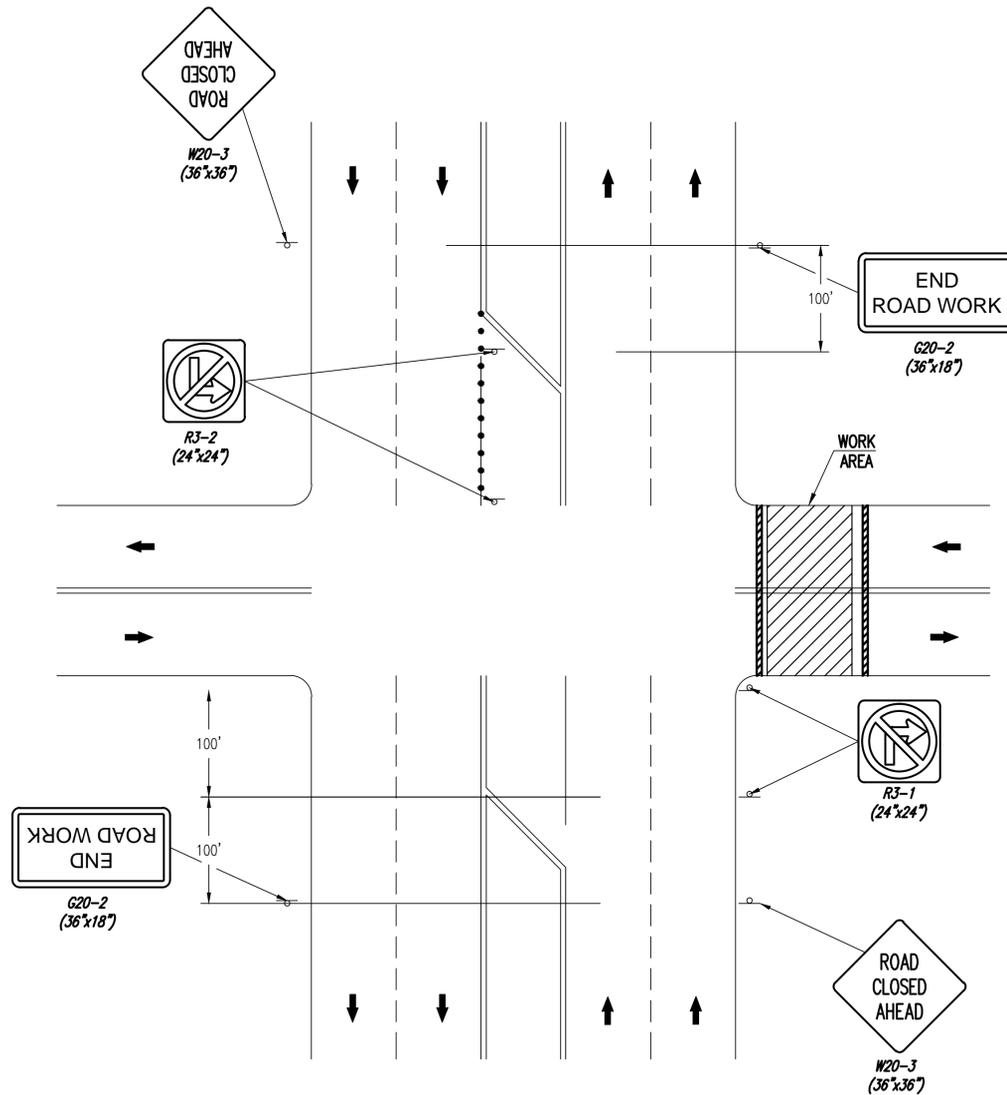
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
616 VERNON STREET, SUITE B, LAWRENCE, KS 66044
785-842-6464 www.pec1.com

Saved: 07-24-2015 2:29:03 PM by GMS
 C:\Users\GMS\Documents\14401-006-021-TRAFFIC CONTROL DETAILS
 14401-006-021-TRAFFIC CONTROL DETAILS



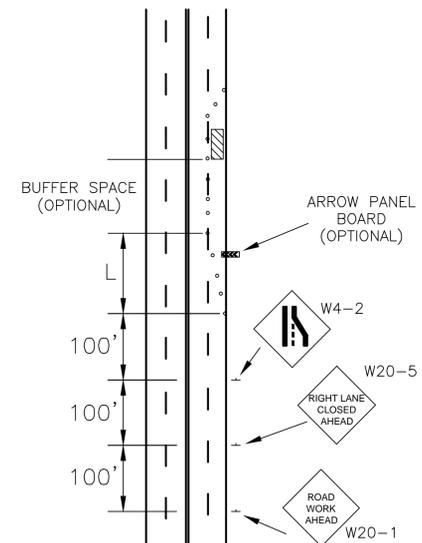
DETOUR SIGNING-STREET CONSTRUCTION IN A STREET GRID

STREET NAME SIGN (D-3) TO BE PLACED ABOVE THE DETOUR SIGN (M4-9) TO INDICATE THE NAME OF THE ROADWAY FOR WHICH THE DETOUR WAS ESTABLISHED.



LANE CLOSURE(S) AT AN INTERSECTION

FIVE LANE STREET SHOWN. TWO, THREE, AND FOUR LANE STREETS SIMILAR.



FOUR LANE ROADWAY WITH ONE LANE CLOSURE

FORMULAS FOR DETERMINING TAPER LENGTH

SPEED (S)	TAPER LENGTH (L) IN FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	$L = WS$

WHERE: L = TAPER LENGTH IN FEET
 W = WIDTH OF OFFSET IN FEET
 S = POSTED SPEED LIMIT PRIOR TO WORK STARTING

**95% FINAL CHECK
 NOT FOR CONSTRUCTION
 JULY 2015**

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 2014 - 2015 WATERMAIN RELOCATION PROGRAM
 MICHIGAN/ARKANSAS STREET, 2ND STREET TO 9TH STREET AND
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TRAFFIC CONTROL DETAILS 2

IPEC
 PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
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 785-842-6661 www.ipec1.com
 Designed By: MMS
 Drawn By: DMS/ECM
 Job No.: 14401-006-3975
 Date: JULY 2015