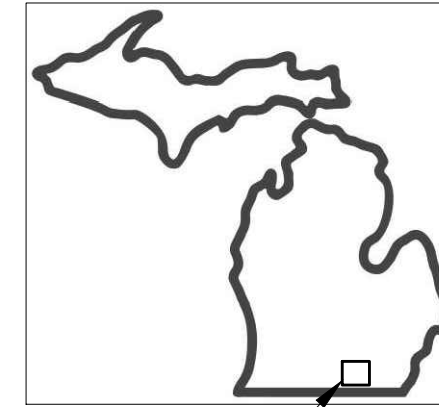




# CITY OF HILLSDALE

## MORRY, S. HOWELL AND LYNWOOD STREET IMPROVEMENTS



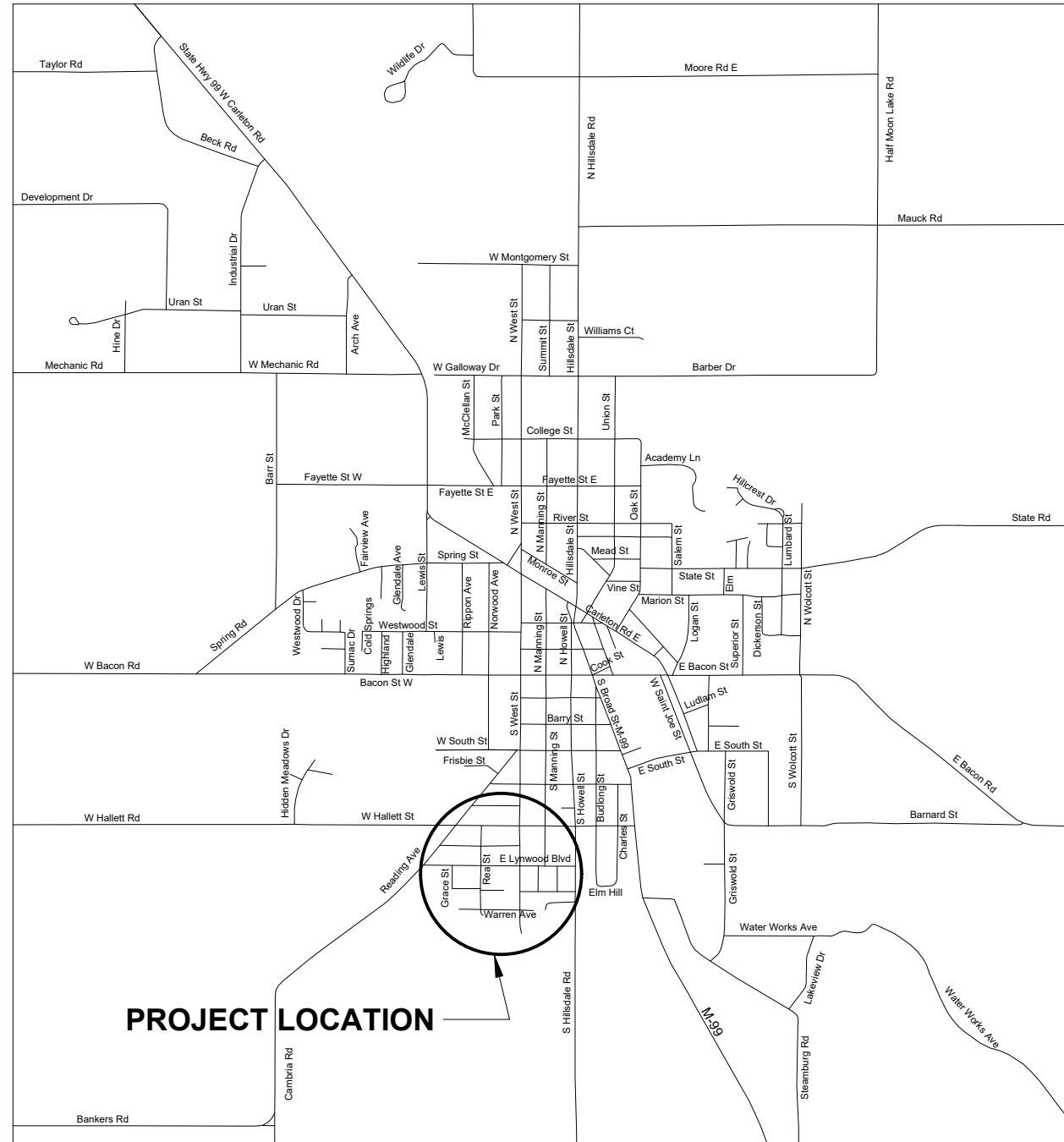
SITE LOCATION

The City of  
**HILLSDALE**  
Family • Tradition • Opportunity

97 N BROAD ST.  
HILLSDALE, MI 49242

REVISIONS	DATE

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL DIAL 1-800-482-7171 OR 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO THE BEGINNING OF EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED.



PROJECT LOCATION

CITY OF HILLSDALE  
HILLSDALE, MI  
MORRY, S HOWELL AND LYNWOOD  
STREET IMPROVEMENTS

COVER SHEET

SHEET NO.	DESCRIPTION
CS	COVER SHEET
C1	MORRY ST. - STA. 0+33 (P.O.B) TO STA. 3+62
C2	LYNWOOD BLVD. - STA. 0+33 (P.O.B) TO STA. 9+50
C3	LYNWOOD BLVD. - STA. 9+50 TO STA. 19+00
C4	LYNWOOD BLVD. - STA. 19+00 TO STA. 26+90 (P.O.E)
C5	S. HOWELL ST. - STA. 0+00 (P.O.B) TO STA. 8+00
C6	S. HOWELL ST. - STA. 8+00 TO STA. 13+15 (P.O.E)
C7	NOTES & STANDARD CONSTRUCTION DETAILS
C8	TRAFFIC CONTROL

**REFERENCES TO SPECIFICATIONS:**  
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROJECT DRAWINGS, NOTES, AND THE APPLICABLE SECTIONS OF THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE MICHIGAN MANUAL OF TRAFFIC CONTROL DEVICES (MMUTCD)

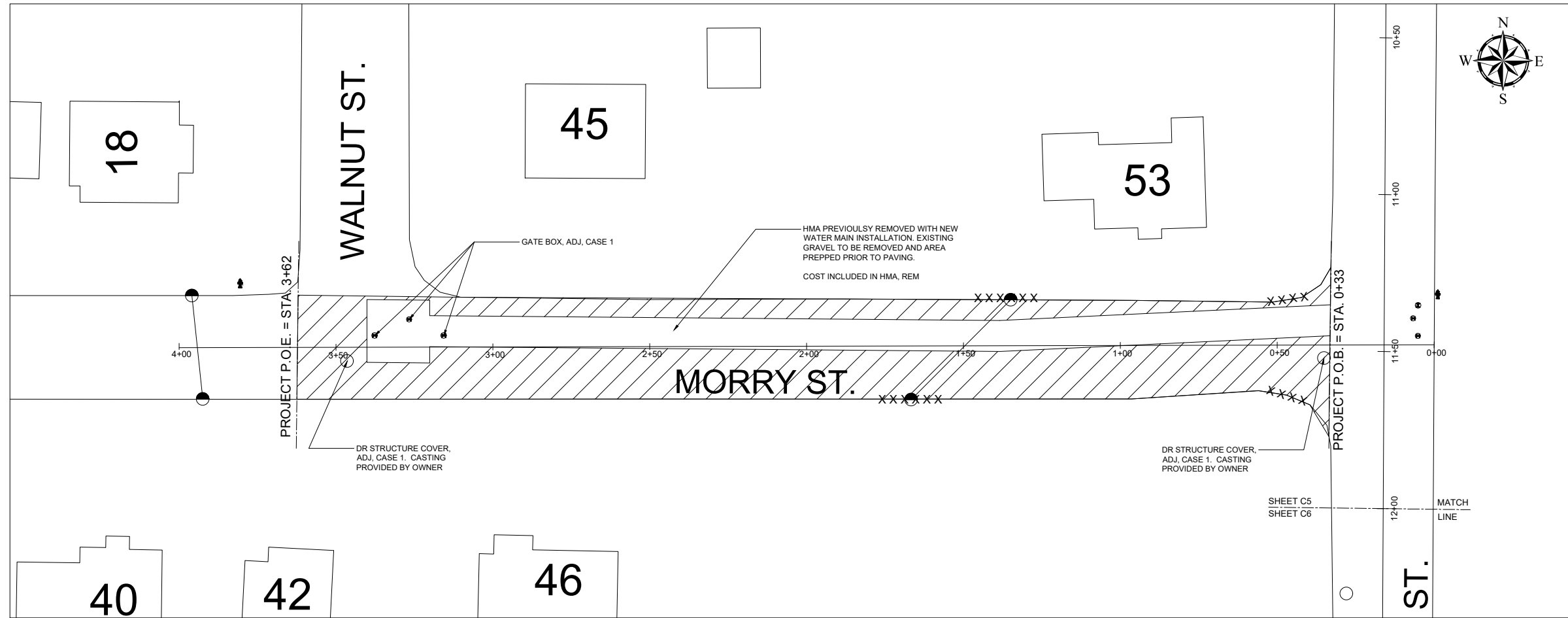
AREA MAP  
NOT TO SCALE

**NOT FOR CONSTRUCTION**

SCALE		
NTS		
	NAME	DATE
DESIGNED	KLB	1/24/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.  
**CS**

# MORRY STREET



97 N BROAD ST.  
HILLSDALE, MI 49242

REVISIONS	DATE

CITY OF HILLSDALE  
HILLSDALE, MI  
**MORRY, S. HOWELL AND LYNWOOD  
STREET IMPROVEMENTS**  
MORRY STREET - STA 0+33 TO 3+62

SCALE:  
1" = 40'

	NAME	DATE
DESIGNED	KLB	1/24/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.  
**C1**

CONSTRUCTION LEGEND

- HMA, REM
- CURB & GUTTER, REM

**PROJECT QUANTITIES - THIS SHEET**

QUANTITY	UNIT	DESCRIPTION
100	LF	CURB & GUTTER, REM
1170	SY	HMA SURFACE, REM
1170	SY	MACHINE GRADING
165	LF	STORM SEWER PIPE, SDR 35, 12", TR DET B
3	EA	DR STRUCTURE, 24 INCH
2	EA	DR STRUCTURE COVER, ADJ, CASE 1
3	EA	GATE VALVE, ADJ, CASE 1
100	LF	CURB & GUTTER, CONC, F-4
290	TON	HMA, LVSP
50	SY	AGGREGATE BASE (22A), CONDITIONING, IF NEEDED
25	CY	SUBGRADE UNDERCUTTING, TYPE II
100	SY	TURF ESTABLISHMENT

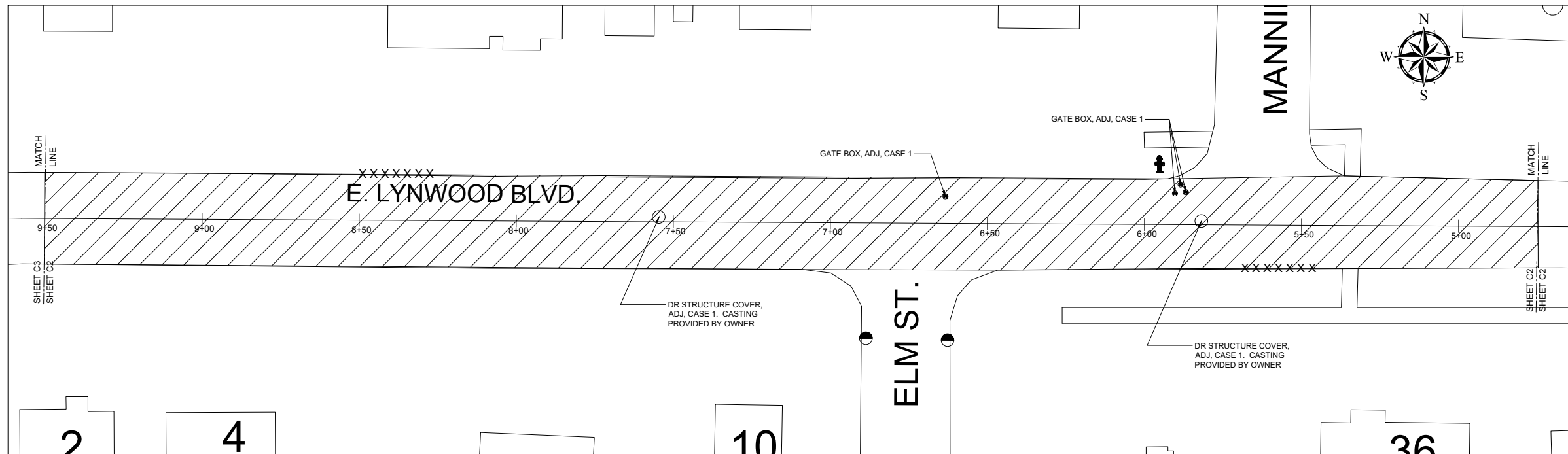
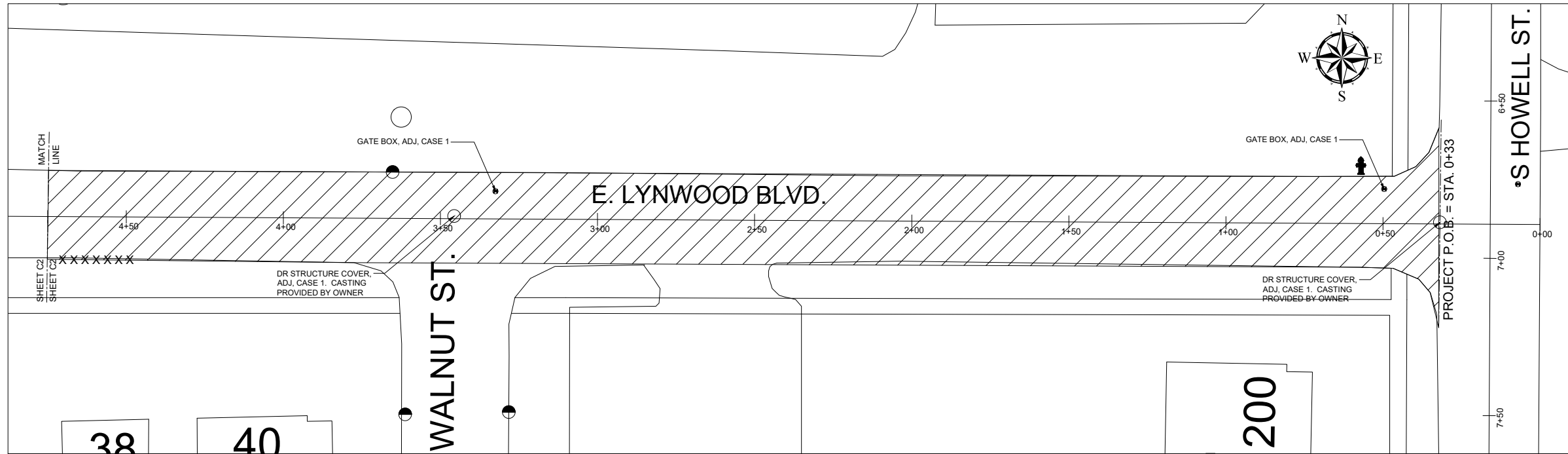
NOT FOR CONSTRUCTION

REFER TO C7 FOR TYPICAL PROPOSED CROSS SECTION.

# LYNWOOD BLVD

97 N BROAD ST.  
HILLSDALE, MI 49242

REVISIONS      DATE



CITY OF HILLSDALE  
HILLSDALE, MI  
**MORRY, S. HOWELL AND LYNWOOD  
STREET IMPROVEMENTS**

LYNWOOD BLVD - STA 0+33 (P.O.B.) TO 9+50

**CONSTRUCTION LEGEND**

- HMA, REM
- CURB & GUTTER, REM

PROJECT QUANTITIES - THIS SHEET		
QUANTITY	UNIT	DESCRIPTION
100	LF	CURB & GUTTER, REM
2950	SY	HMA SURFACE, REM
2950	SY	MACHINE GRADING
15	SY	PAV'T, REM
4	EA	DR STRUCTURE COVER, ADJ, CASE 1
5	EA	GATE VALVE, ADJ, CASE 1
100	LF	CURB & GUTTER, CONC, F-4
715	TON	HMA, LVSP
50	SY	AGGREGATE BASE (22A), CONDITIONING, IF NEEDED

PROJECT QUANTITIES - THIS SHEET		
QUANTITY	UNIT	DESCRIPTION
0	SF	SIDEWALK, CONC, 4 INCH
135	SF	SIDEWALK/DRIVEWAY, CONC, 6 INCH
0	SF	SIDEWALK RAMP, CONC, 6 INCH
0	LF	DETECTABLE WARNING
25	CY	SUBGRADE UNDERCUTTING, TYPE II
100	SY	TURF ESTABLISHMENT

REFER TO C7 FOR TYPICAL PROPOSED CROSS SECTION.

**NOT FOR CONSTRUCTION**

SCALE:  
1" = 40'

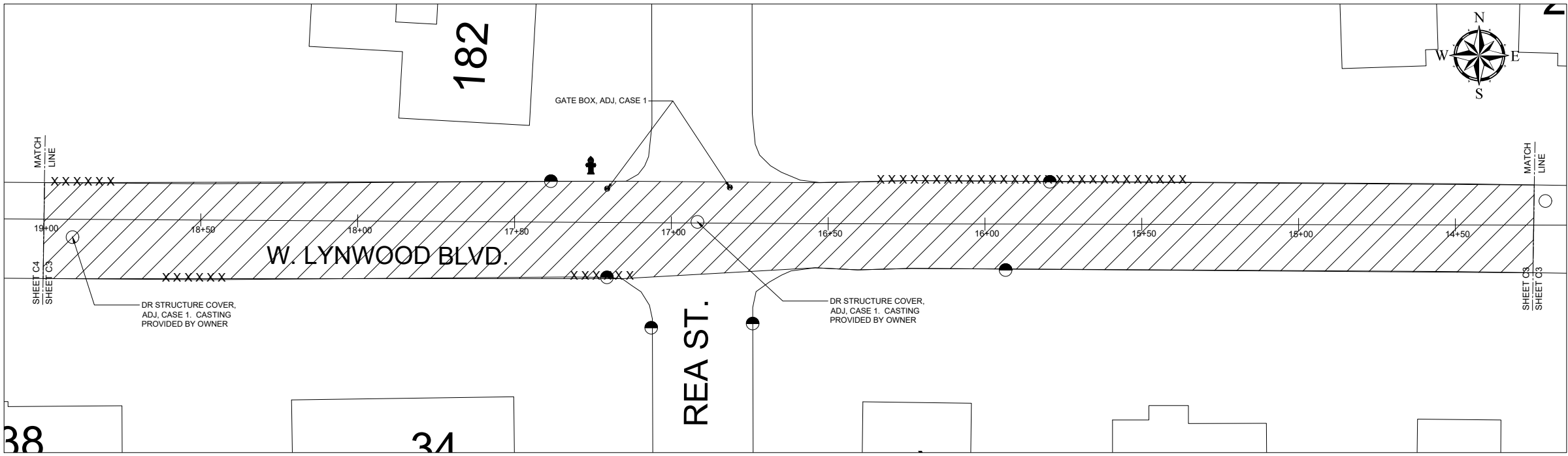
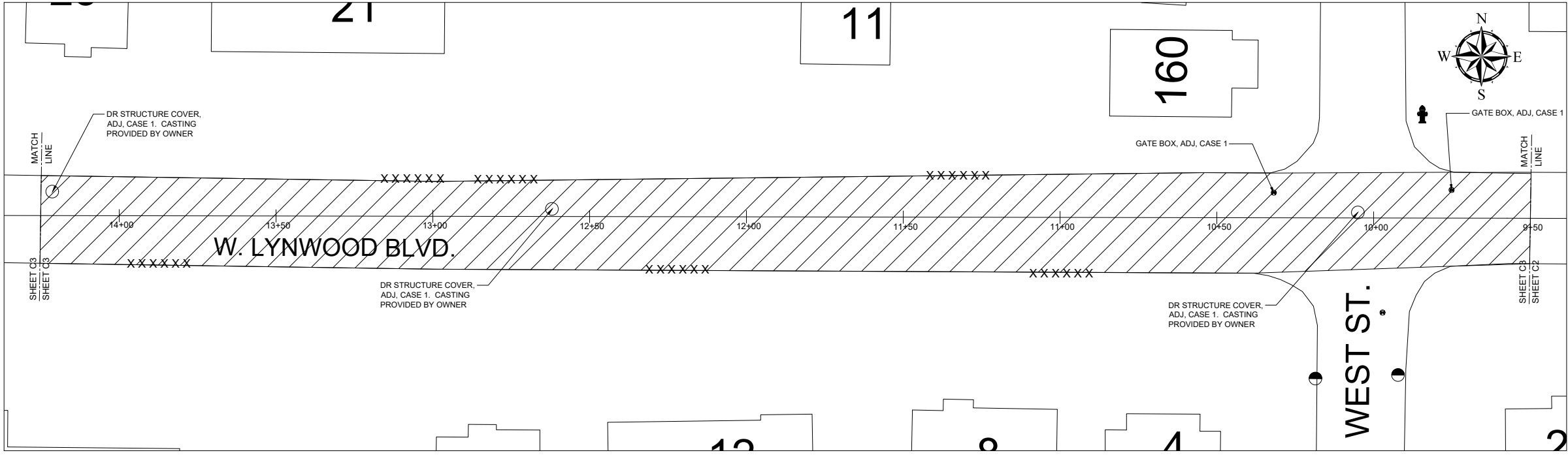
	NAME	DATE
DESIGNED	KLB	1/24/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.  
**C2**

# LYNWOOD BLVD

97 N BROAD ST.  
HILLSDALE, MI 49242

REVISIONS	DATE



CITY OF HILLSDALE  
HILLSDALE, MI  
MORRY, S. HOWELL AND LYNWOOD  
STREET IMPROVEMENTS  
LYNWOOD BLVD - STA 9+50 TO 19+00

SCALE:  
1" = 40'

	NAME	DATE
DESIGNED	KLB	1/24/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.  
**C3**

**CONSTRUCTION LEGEND**

	HMA, REM
	CURB & GUTTER, REM

PROJECT QUANTITIES -THIS SHEET		
QUANTITY	UNIT	DESCRIPTION
300	LF	CURB & GUTTER, REM
3100	SY	HMA SURFACE, REM
3100	SY	MACHINE GRADING
6	SY	PAV'T, REM
5	EA	DR STRUCTURE COVER, ADJ, CASE 1
4	EA	GATE VALVE, ADJ, CASE 1
300	LF	CURB & GUTTER, CONC, F-4
750	TON	HMA, LVSP
50	SY	AGGREGATE BASE (22A), CONDITIONING, IF NEEDED

PROJECT QUANTITIES -THIS SHEET		
QUANTITY	UNIT	DESCRIPTION
0	SF	SIDEWALK, CONC, 4 INCH
16	SF	SIDEWALK/DRIVEWAY, CONC, 6 INCH
0	SF	SIDEWALK RAMP, CONC, 6 INCH
0	LF	DETECTABLE WARNING
25	CY	SUBGRADE UNDERCUTTING, TYPE II
300	SY	TURF ESTABLISHMENT

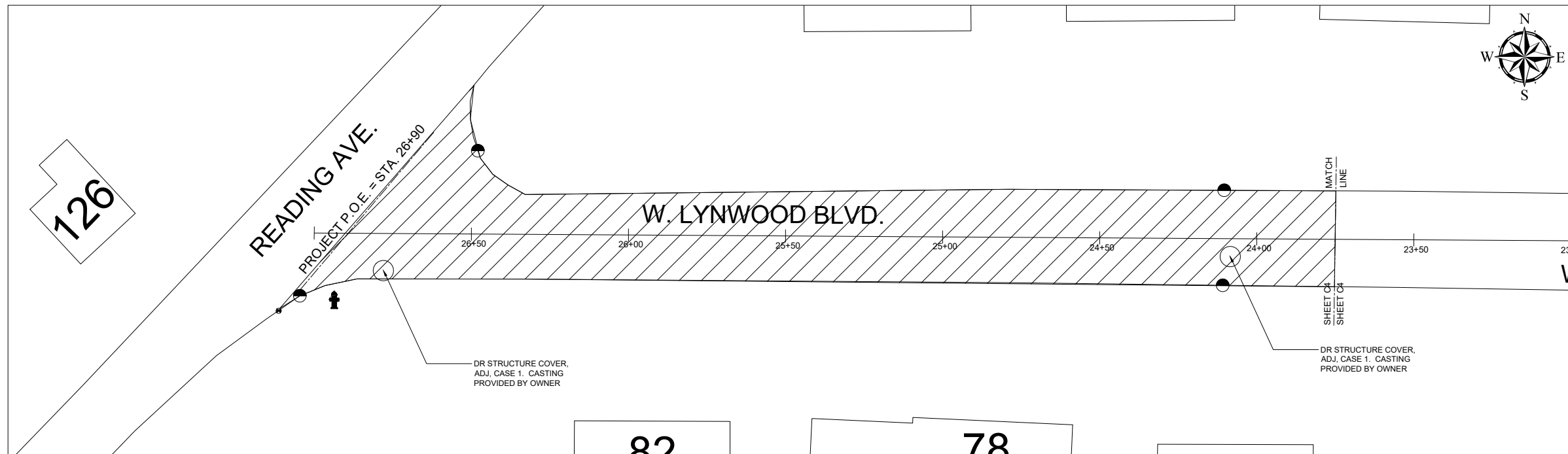
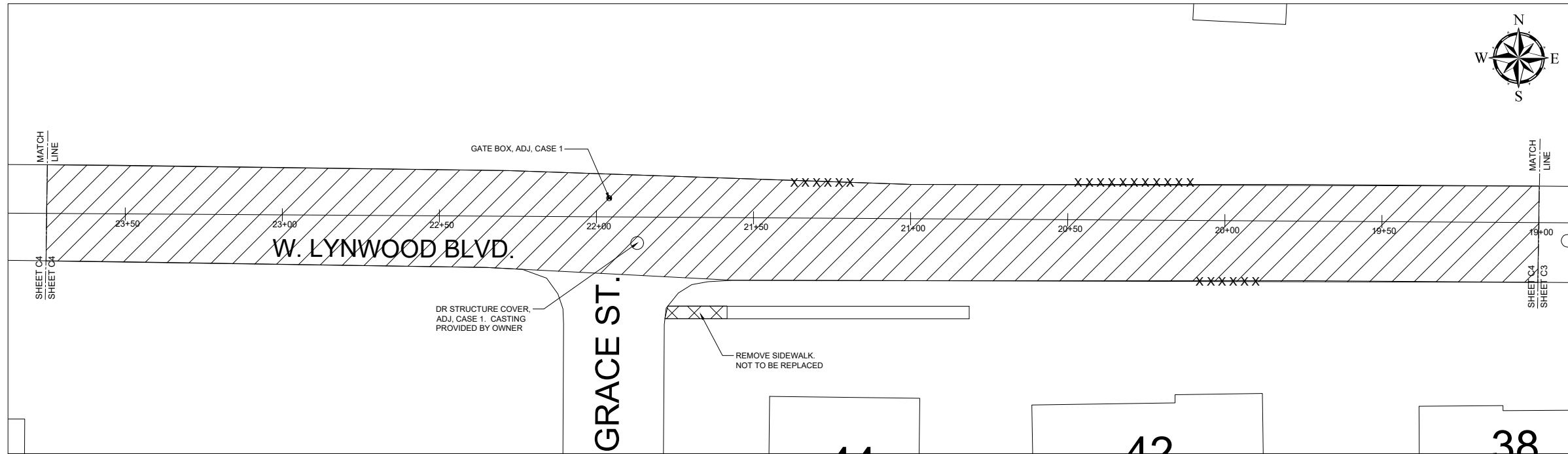
REFER TO C7 FOR TYPICAL PROPOSED CROSS SECTION.

**NOT FOR CONSTRUCTION**

# LYNWOOD BLVD

97 N BROAD ST.  
HILLSDALE, MI 49242

REVISIONS      DATE



**CONSTRUCTION LEGEND**

- HMA, REM
- CURB & GUTTER, REM
- SIDEWALK, REM

PROJECT QUANTITIES -THIS SHEET		
QUANTITY	UNIT	DESCRIPTION
100	LF	CURB & GUTTER, REM
9	SY	SIDEWALK, REM
2750	SY	HMA SURFACE, REM
2750	SY	MACHINE GRADING
5	SY	PAV'T, REM
3	EA	DR STRUCTURE COVER, ADJ, CASE 1
1	EA	GATE VALVE, ADJ, CASE 1
100	LF	CURB & GUTTER, CONC, F-4
670	TON	HMA, LVSP
50	SY	AGGREGATE BASE (22A), CONDITIONING, IF NEEDED

PROJECT QUANTITIES -THIS SHEET		
QUANTITY	UNIT	DESCRIPTION
0	SF	SIDEWALK, CONC, 4 INCH
40	SF	SIDEWALK/DRIVEWAY, CONC, 6 INCH
0	SF	SIDEWALK RAMP, CONC, 6 INCH
0	LF	DETECTABLE WARNING
25	CY	SUBGRADE UNDERCUTTING, TYPE II
100	SY	TURF ESTABLISHMENT

REFER TO C7 FOR TYPICAL PROPOSED CROSS SECTION.

**NOT FOR CONSTRUCTION**

**CITY OF HILLSDALE**  
 HILLSDALE, MI  
**MORRY, S. HOWELL AND LYNWOOD**  
**STREET IMPROVEMENTS**  
 LYNWOOD BLVD - STA 19+00 TO 26+90 (P.O.E.)

SCALE:  
1" = 40'

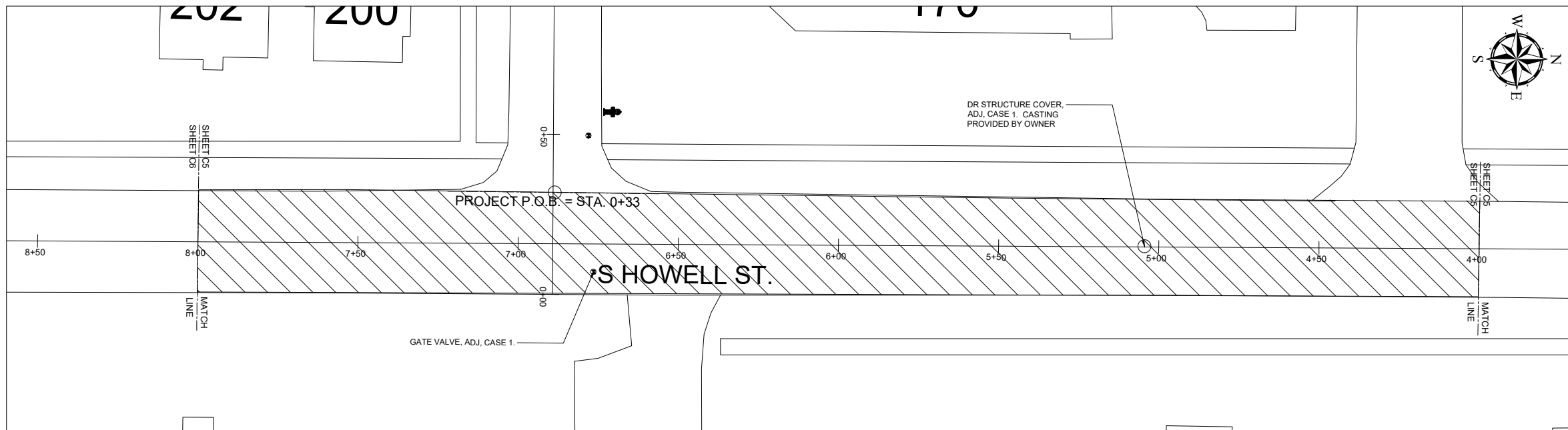
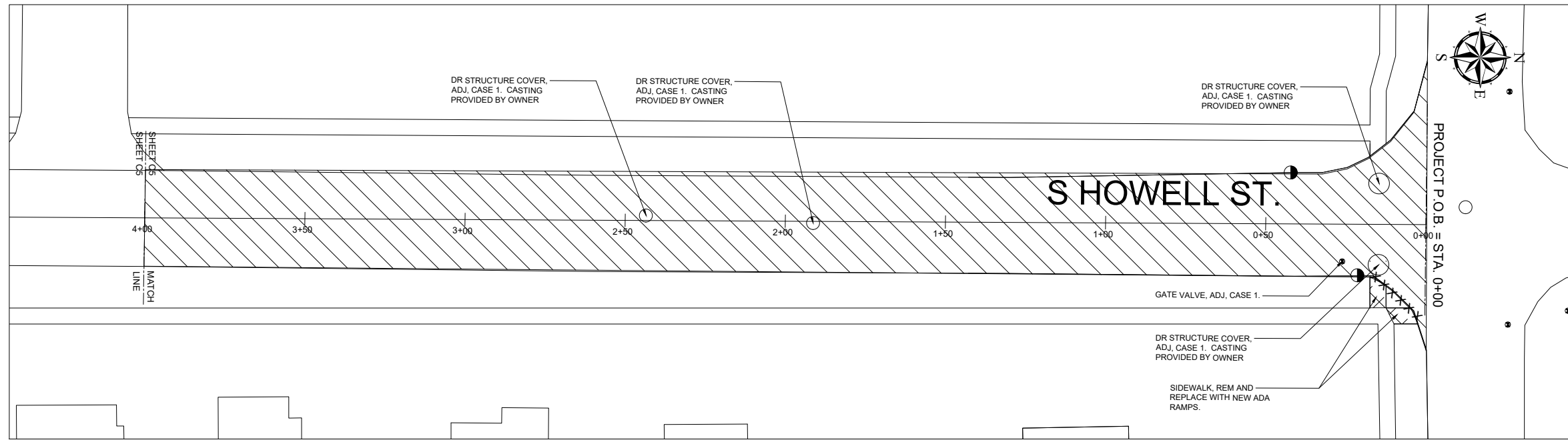
	NAME	DATE
DESIGNED	KLB	1/24/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.  
**C4**

# S HOWELL ST

97 N BROAD ST.  
HILLSDALE, MI 49242

REVISIONS	DATE



**CITY OF HILLSDALE**  
HILLSDALE, MI  
**MORRY, S. HOWELL AND LYNWOOD**  
**STREET IMPROVEMENTS**

S. HOWELL ST. - STA. 0+00 (P.O.B.) TO 8+00

**CONSTRUCTION LEGEND**

- HMA, REM
- CURB & GUTTER, REM
- SIDEWALK, REM

PROJECT QUANTITIES -THIS SHEET		
QUANTITY	UNIT	DESCRIPTION
100	LF	CURB & GUTTER, REM
12	SY	SIDEWALK, REM
2825	SY	HMA SURFACE, REM
2825	SY	MACHINE GRADING
0	SY	PAV'T, REM
5	EA	DR STRUCTURE COVER, ADJ, CASE 1
2	EA	GATE VALVE, ADJ, CASE 1
100	LF	CURB & GUTTER, CONC, F-4
860	TON	HMA, LVSP
50	SY	AGGREGATE BASE (22A), CONDITIONING, IF NEEDED

PROJECT QUANTITIES -THIS SHEET		
QUANTITY	UNIT	DESCRIPTION
0	SF	SIDEWALK, CONC, 4 INCH
0	SF	SIDEWALK/DRIVEWAY, CONC, 6 INCH
110	SF	SIDEWALK RAMP, CONC, 6 INCH
10	LF	DETECTABLE WARNING
25	CY	SUBGRADE UNDERCUTTING, TYPE II
100	SY	TURF ESTABLISHMENT

REFER TO C7 FOR TYPICAL PROPOSED CROSS SECTION.

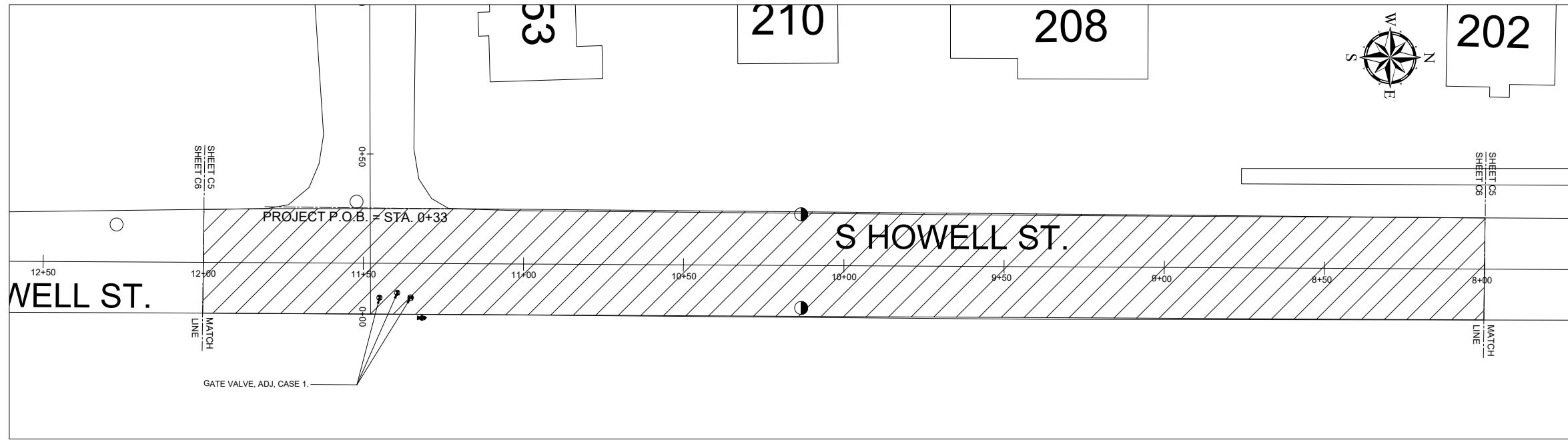
**NOT FOR CONSTRUCTION**

SCALE:  
1" = 40'

	NAME	DATE
DESIGNED	KLB	1/24/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.  
**C5**

# S HOWELL ST



97 N BROAD ST.  
HILLSDALE, MI 49242

REVISIONS	DATE

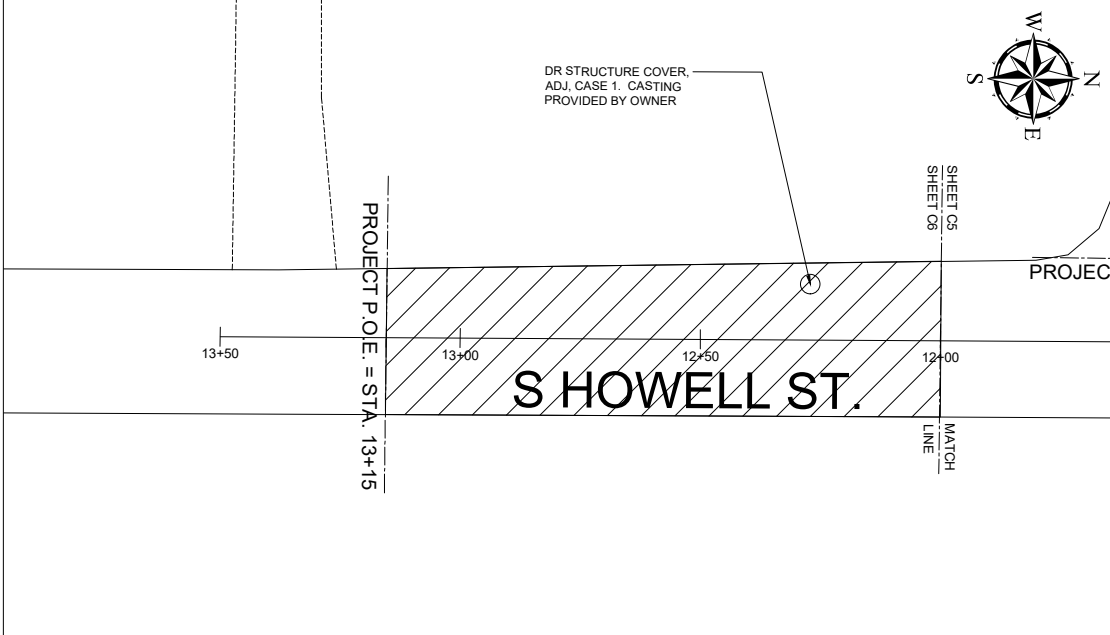
**CITY OF HILLSDALE**  
HILLSDALE, MI  
**MORRY, S. HOWELL AND LYNWOOD**  
**STREET IMPROVEMENTS**

S. HOWELL ST. - STA. 8+00 TO 13+15 (P.O.E.)

**CONSTRUCTION LEGEND**

	HMA, REM
	CURB & GUTTER, REM

PROJECT QUANTITIES - THIS SHEET		
QUANTITY	UNIT	DESCRIPTION
0	LF	CURB & GUTTER, REM
0	SY	SIDEWALK, REM
1850	SY	HMA SURFACE, REM
1850	SY	MACHINE GRADING
0	SY	PAV'T, REM
650	LF	STORM SEWER PIPE, SDR 35, 12 INCH, TR DET B
6	EA	DR STRUCTURE, 24 INCH
1	EA	DR STRUCTURE COVER, ADJ, CASE 1
3	EA	GATE VALVE, ADJ, CASE 1
0	LF	CURB & GUTTER, CONC, F-4
560	TON	HMA, LVSP
50	SY	AGGREGATE BASE (22A), CONDITIONING, IF NEEDED
0	SF	SIDEWALK, CONC, 4 INCH
0	SF	SIDEWALK/DRIVEWAY, CONC, 6 INCH
0	SF	SIDEWALK RAMP, CONC, 6 INCH
0	LF	DETECTABLE WARNING
25	CY	SUBGRADE UNDERCUTTING, TYPE II
0	SY	TURF ESTABLISHMENT



**NOT FOR CONSTRUCTION**

REFER TO C7 FOR TYPICAL PROPOSED CROSS SECTION.

SCALE:  
1" = 40'

	NAME	DATE
DESIGNED	KLB	1/24/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.  
**C6**

**CONSTRUCTION NOTES (APPLICABLE TO ALL SHEETS, AS NEEDED):**

**EXISTING WATER MAINS AND SEWERS:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PROPERLY IDENTIFIED EXISTING WATER MAINS AND/OR SEWER DURING THE CONSTRUCTION OF THIS PROJECT.

**CONCRETE CURB & GUTTER:** NEW CURB & GUTTER SHALL BE B-2 TYPE CONSTRUCTED IN ACCORDANCE WITH MDOT STANDARD PLAN R-30-G. SECTIONS LONGER THAN 10'-0" WILL REQUIRE 2-#4 EPOXY COATED REINFORCING BARS.

**ADJUSTMENT OF DRAINAGE STRUCTURES:** IT IS THE CONTRACTOR'S RESPONSIBILITY TO PLACE THE LOCATION AND ELEVATION OF ALL CASTINGS PROPERLY ALIGNED WITH THE PROPOSED CURB OR WITHIN THE STREET. ADJUSTMENT OF CASTINGS ON EXISTING STRUCTURES WILL BE PAID AS DR STRUCTURE COVER, ADJ, CASE 1 OR 2. THESE ITEMS INCLUDE ALL BLOCK OR ADJUSTING RINGS AS NECESSARY FOR PROPER ADJUSTMENT. ANY REQUIRED NEW CASTINGS WILL BE PROVIDED BY THE CITY.

**SALVAGE:** THE CITY RESERVES THE RIGHT TO SALVAGE ALL EXISTING MATERIALS (CASTINGS, HYDRANTS, ETC). MATERIALS DESIRED TO BE SALVAGED SHALL BE STOCKPILED WITHIN THE PROJECT LIMITS FOR THE CITY TO PICK UP. ITEMS THE CITY DOES NOT WANT WILL BE BECOME PROPERTY OF THE CONTRACTOR.

**LAWN SPRINKLERS:** OWNERS OF EXISTING LAWN SPRINKLER SYSTEMS AND/OR LANDSCAPING SHALL BE NOTIFIED, IN WRITING WITH A COPY SENT TO THE CITY ENGINEER, BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF ANY WORK THAT WILL EFFECT THOSE SYSTEMS/LANDSCAPING. IF THE OWNER FAILS TO RELOCATE THE ITEMS PRIOR TO THE BEGINNING OF WORK AND THE SYSTEM IS CUT THE CONTRACTOR SHALL CAP THE SYSTEM PIPE AND WITNESS THE LOCATION WITH A STAKE. SALVAGED SPRINKLER HEADS SHALL BE PLACE ON THE OWNERS PROPERTY. ANY LANDSCAPING ITEMS NOT MOVED SHALL BE CAREFULLY SALVAGED AND PLACED ON THE OWNERS PROPERTY.

**NOTICE TO RESIDENTS:** THE CONTRACTOR SHALL NOTIFY RESIDENTS 24 HOURS IN ADVANCE OF DISTRUPTION TO SERVICE SUCH AS DRIVEWAYS CLOSING.

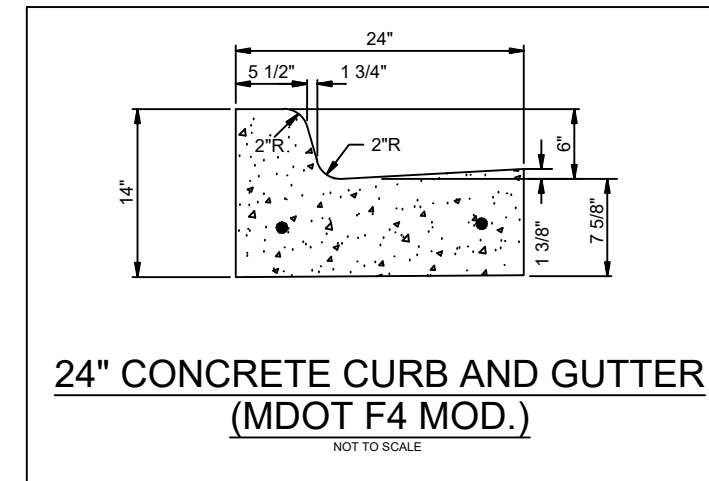
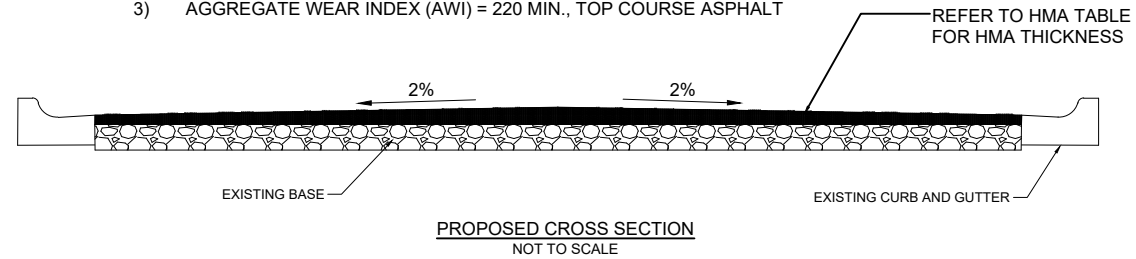
**LANDSCAPE RETORATION:** AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND RESTORED WITH 4" OF NEW TOPSOIL, SEEDED AND MULCHED PER THE SPECIFICATION REQUIREMENTS FOR TURF ESTABLISHMENT.

**MAINTAINING TRAFFIC:** CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL RESIDENTS AND EMERGENCY VEHICLES DURING CONSTRUCTION. IT IS UNDERSTOOD THAT THERE MAY BE TIMES WITH SEVERLY LIMITED ACCESS. THE CONTRACTOR SHALL LEAVE THE SITE AT THE END OF THE WORK DAY SUCH THAT RESIDENTS CAN ACCESS THEIR DRIVEWAYS.

HMA APPLICATION TABLE				
STREET	HMA	BASE	LEVELING	TOP
MORRY	LVSP	220 LBS/SYD	-	220 LBS/SYD
LYNWOOD	LVSP	220 LBS/SYD	-	220 LBS/SYD
S. HOWELL	LVSP	220 LBS/SYD	165 LBS/SYD	165 LBS/SYD

**NOTES:**

- 1) BOND COAT SHALL BE APPLIED BETWEEN SUCCESSIVE COURSES OF HMA (PAYMENT INCLUDED IN HMA MIX). APPLICATION RATE 0.05 - 0.15 GAL/SYD SS-IH, AS DIRECTED BY ENGINEER.
- 2) BINDER GRADE SHALL BE PG 58-28.
- 3) AGGREGATE WEAR INDEX (AWI) = 220 MIN., TOP COURSE ASPHALT



**PUBLIC UTILITIES:** THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THEIR ACCURACY OR THE RESPONSIBILITY IN CASE UTILITIES HAVE BEEN REMOVED OR CONSTRUCTED.

<b>GAS:</b>	MICHIGAN GAS UTILITY 70 SAUK RIVER DRIVE COLDWATER, MI 49036 P - 517-781-0511 ATTN: DONALD SEEKMAN donald.seekman@michiganutilities.com	<b>ELECTRIC:</b>	CITY OF HILLSDALE BPU 45 MONROE STREET HILLSDALE, MI 49242 P - 517-437-6417 ATTN: CHRIS McARTHUR cmcarthur@hilldalebpu.com
<b>CABLE TELEVISION:</b>	COMCAST 16718 US 12 CEMENT CITY, MI 49233 P - 734-359-1669 ATTN: JEFF DOBIES	<b>TELEPHONE:</b>	AT&T 1041 HURST ROAD JACKSON, MI 49201 P - 517-750-0660 ATTN: KAREN TRUDGEN karen.m.trudgen@att.com
<b>WATER/SEWER:</b>	CITY OF HILLSDALE BPU 45 MONROE STREET HILLSDALE, MI 49242 P - 517-437-6412 ATTN: JEFF GIER jgier@hilldalebpu.com	<b>PUBLIC WORKS:</b>	CITY OF HILLSDALE 149 WATER WORKS AVE HILLSDALE, MI 49242 517-437-6491 ATTN: JAKE HAMMEL jhammel@cityofhilldale.org

THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CONFLICTS IN GRADE SHALL BE REPORTS TO THE CITY ENGINEER AND ADJUSTMENTS MADE AT NO ADDITIONAL COST TO THE OWNER.

97 N BROAD ST.  
HILLSDALE, MI 49242

REVISIONS	DATE

CITY OF HILLSDALE  
HILLSDALE, MI  
**MORRY, S. HOWELL AND LYNWOOD  
STREET IMPROVEMENTS**  
CONSTRUCTION NOTES & DETAILS

SCALE NOT TO SCALE		
	NAME	DATE
DESIGNED	KLB	1/24/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.  
**C7**

**NOT FOR CONSTRUCTION**



97 N BROAD ST.  
HILLSDALE, MI 49242

REVISIONS	DATE

CITY OF HILLSDALE  
HILLSDALE, MI  
**MORRY, S. HOWELL, LYNWOOD**  
STREET IMPROVEMENTS  
TRAFFIC CONTROL

SCALE:  
NTS

	NAME	DATE
DESIGNED	KLB	1/24/22
DRAWN	KLB	1/24/22
CHECKED	JB	

DRAWING NO.  
**C6**

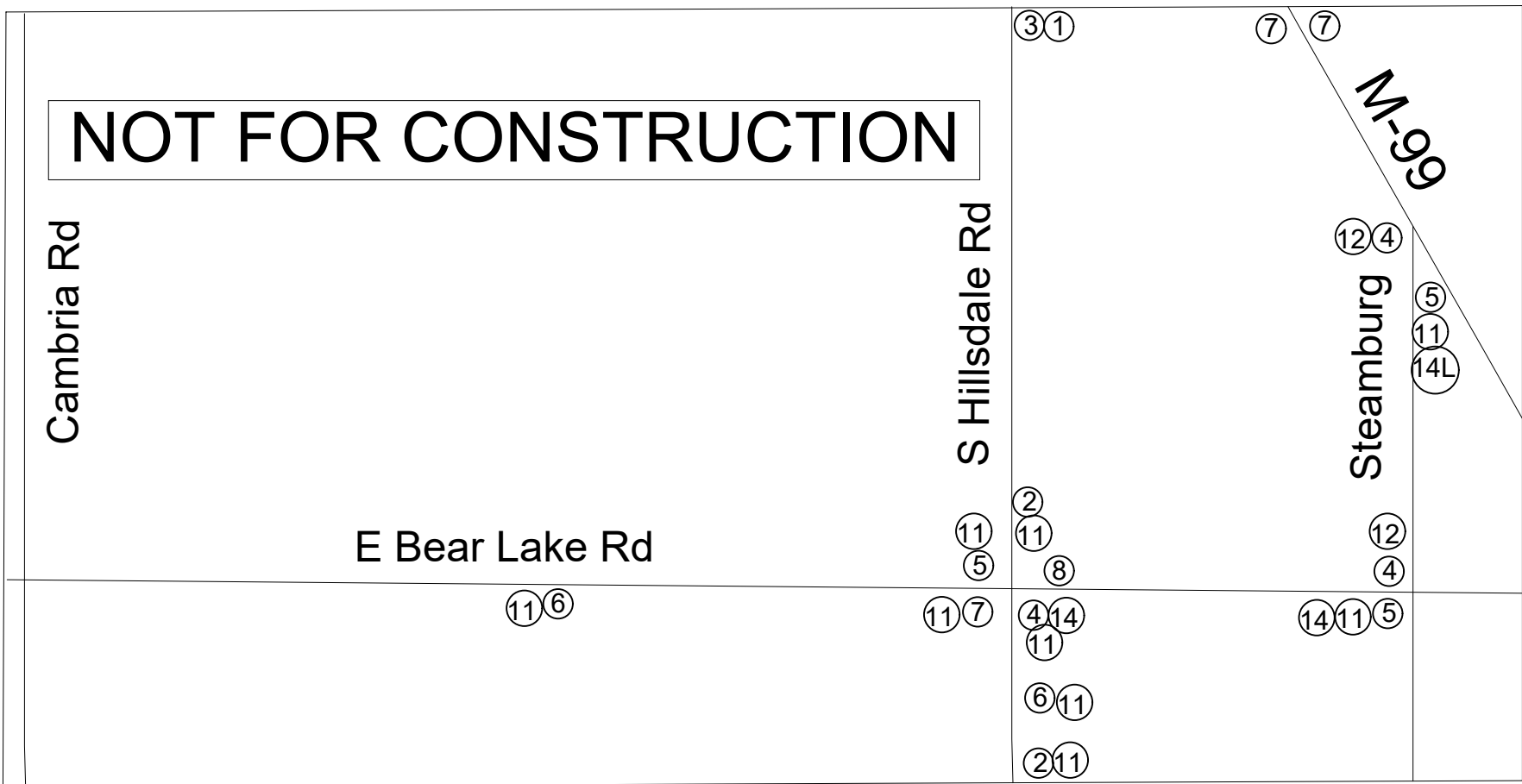
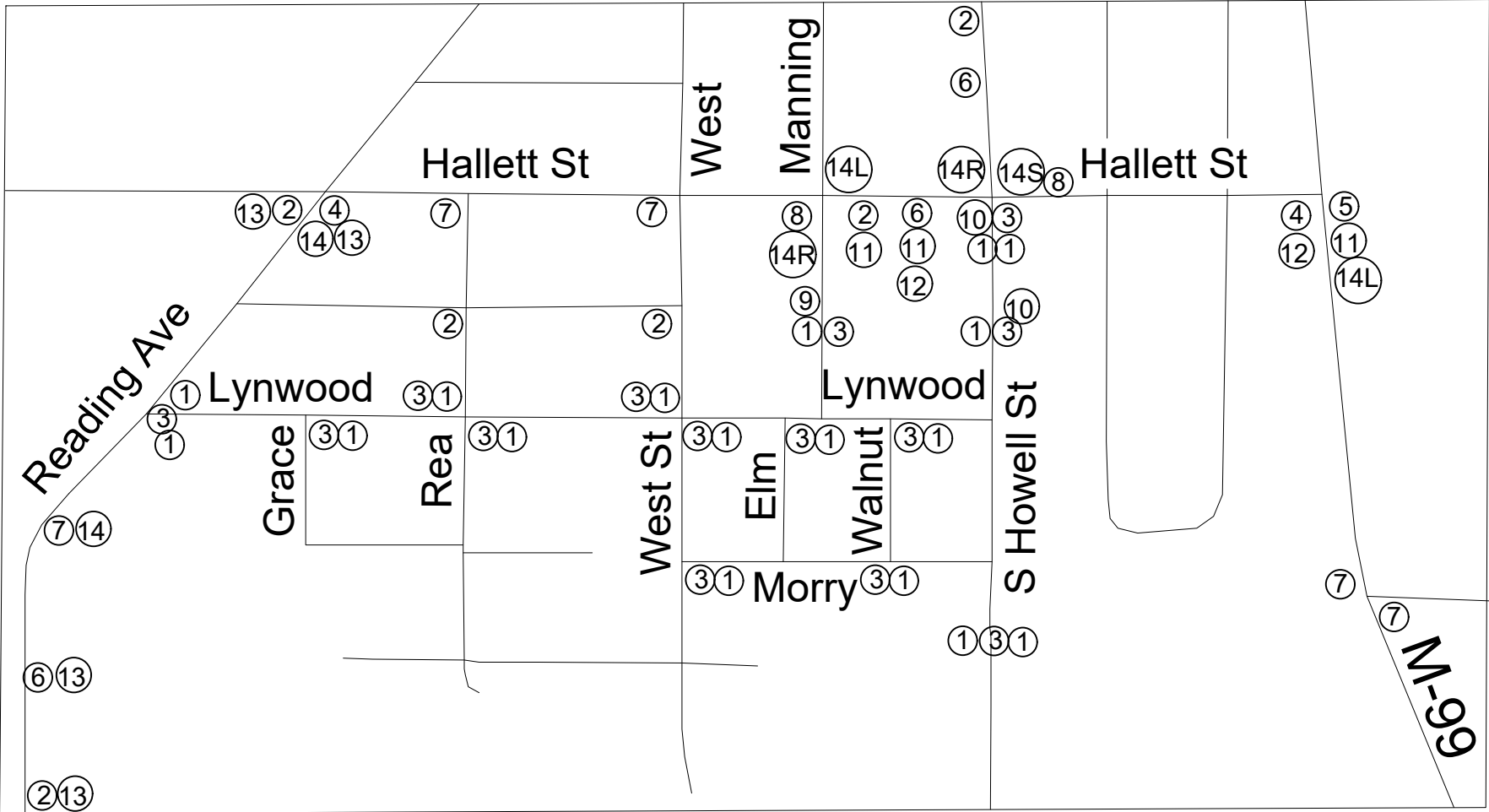
**TRAFFIC CONTROL KEY**

KEY	CODE	SIGN	*QTY
①		TYPE III BARRICADE HIGH INTENSITY	18
②	W20-3	STREET CLOSED AHEAD	10
③	R11-4	STREET CLOSED TO THRU TRAFFIC	15
④	M4-9R	DETOUR ARROW RIGHT	5
⑤	M4-9L	DETOUR ARROW LEFT	4
⑥	W20-2	DETOUR AHEAD	5
⑦	M4-9S	DETOUR STRAIGHT	8
⑧	M4-8A	DETOUR ENDS	3
⑨	M4-10R	DETOUR RIGHT	1
⑩	M4-10L	DETOUR LEFT	2
⑪	D3-1	"S HOWELL" - PLAQUE	12
⑫	D3-1	"S HILLSDALE" - PLAQUE	4
⑬	D3-1	"LYNWOOD" - PLAQUE	4
⑭	D9-2	HOSPITAL	4
⑭S	D9-2/M6-3	HOSPITAL - STRAIGHT ARROW	1
⑭R	D9-2/M6-1	HOSPITAL - RIGHT ARROW	2
⑭L	D9-2/M5-1	HOSPITAL - LEFT ARROW	3

\* QUANTITIES ARE MINIMUM REQUIRED. CONTRACTOR MAY INCREASE AS NEEDED FOR THEIR CONSTRUCTION PLANS. LIGHTED BARRELS AND/OR GRABBER CONES WILL BE NEEDED FOR FLAG CONTROL ZONES AND OVER NIGHT ONE LANE SECTIONS.

**PROJECT NOTES**

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE MDOT 2012 STANDARD SPECIFICATION FOR CONSTRUCTION.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.



**NOT FOR CONSTRUCTION**