

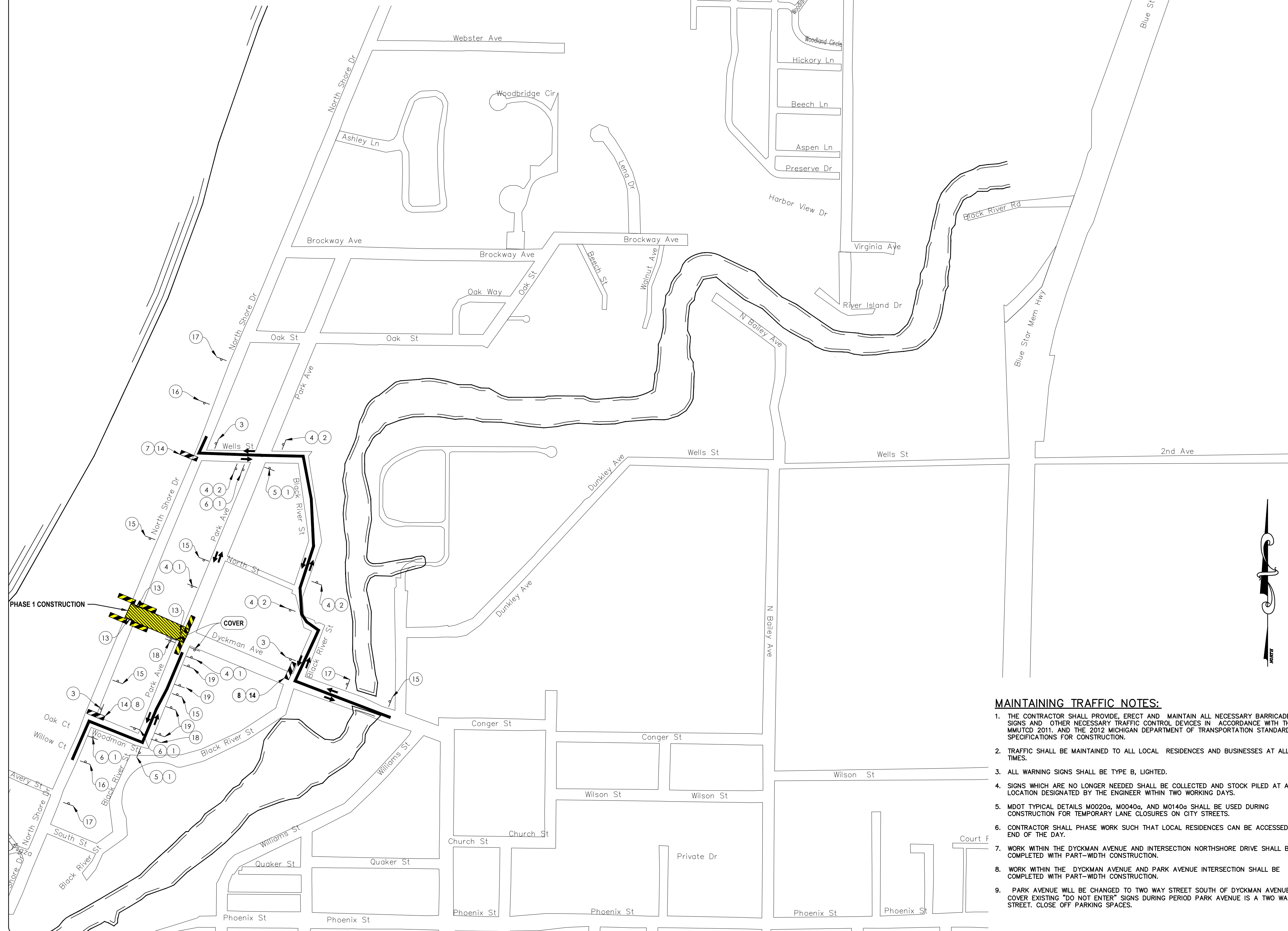
PHASE I - DYCKMAN AVENUE

Work Description:

Removal of the existing asphalt pavement on Dyckman Avenue from North Shore Drive to Park Avenue, installation of new 8" diameter sanitary sewer, and replacement of the asphalt pavement.

Work Schedule:

Anticipated Start Date: September 6, 2016
Anticipated Completion Date: September 30, 2016



MAINTAINING TRAFFIC NOTES:
THE CONTRACTOR SHALL BE PAID FOR THE HIGHEST QUANTITY USED AMONG THE THREE PHASES OF CONSTRUCTION

PHASE 1 ESTIMATED SIGN, TYPE B, TEMPORARY PLAN QUANTITIES

SYMBOL	LABEL	DIMENSION (FT)	AREA (SFT)	QUANTITY PHASE 1 (EA)	QUANTITY PHASE 2 (EA)	QUANTITY PHASE 3 (EA)	MAXIMUM QUANTITY (SFT)
1	NORTH SHORE DR.	D3-1	2' x 0.5'	1.0	0	12	23
2	DYCKMAN AVE.	D3-1	2' x 0.5'	1.0	4	0	4.0
3	END DETOUR	M4-8a	2' x 1.5'	3.0	2	2	6.0
4	DETOUR	M4-9	2.5' x 2'	5.0	4	5	9
5	DETOUR	M4-9L	2.5' x 2'	5.0	0	3	9
6	DETOUR	M4-9R	2.5' x 2'	5.0	0	3	6
7	DETOUR	M4-10L	4' x 1.5'	6.0	1	1	6.0
8	DETOUR	M4-10R	4' x 1.5'	6.0	2	1	12.0
9	TRAFFIC FINES DOUBLED IN WORK ZONES	R5-18	4' x 5'	20.0	0	0	0.0
10	INURE/ILL A WORKER \$7500 + 15 YEARS	R5-18b	4' x 5'	20.0	0	0	0.0
11	WORK ZONE BEGINS	R5-18c	4' x 4'	16.0	0	0	0.0
12	SIDEWALK CLOSED	R9-9	2' x 1'	2.0	0	0	0.0
13	ROAD CLOSED	R11-2	4' x 2.5'	10.0	3	4	40.0
14	ROAD CLOSED THRU TRAFFIC	R11-4	5' x 2.5'	12.5	3	2	37.5
15	ROAD WORK AHEAD	W20-1	4' x 4'	16	5	0	80.00
16	DETOUR AHEAD	W20-2	4' x 4'	16	2	3	48.0
17	ROAD CLOSED AHEAD	W20-3	4' x 4'	16	3	3	48.0
18	ROAD CLOSED	W6-3	3' x 3'	9	2	0	18.0
19	N. SHORE DR. CLOSED AT BROCKWAY AVE	R8-3a	1' x 1'	1	4	11	0
		R11-3 (MOD)	5' x 2.5'	12.5	0	1	12.5
TOTAL SIGNAGE (SFT)							453.50

- MAINTAINING TRAFFIC NOTES:**
- THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS AND OTHER NECESSARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MUTCD 2011, AND THE 2012 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION.
 - TRAFFIC SHALL BE MAINTAINED TO ALL LOCAL RESIDENCES AND BUSINESSES AT ALL TIMES.
 - ALL WARNING SIGNS SHALL BE TYPE B, LIGHTED.
 - SIGNS WHICH ARE NO LONGER NEEDED SHALL BE COLLECTED AND STOCK PILED AT A LOCATION DESIGNATED BY THE ENGINEER WITHIN TWO WORKING DAYS.
 - MDOT TYPICAL DETAILS M0020a, M0040a, AND M0140a SHALL BE USED DURING CONSTRUCTION FOR TEMPORARY LANE CLOSURES ON CITY STREETS.
 - CONTRACTOR SHALL PHASE WORK SUCH THAT LOCAL RESIDENCES CAN BE ACCESSED AT END OF THE DAY.
 - WORK WITHIN THE DYCKMAN AVENUE AND INTERSECTION NORTHSHORE DRIVE SHALL BE COMPLETED WITH PART-WIDTH CONSTRUCTION.
 - WORK WITHIN THE DYCKMAN AVENUE AND PARK AVENUE INTERSECTION SHALL BE COMPLETED WITH PART-WIDTH CONSTRUCTION.
 - PARK AVENUE WILL BE CHANGED TO TWO WAY STREET SOUTH OF DYCKMAN AVENUE. COVER EXISTING "DO NOT ENTER" SIGNS DURING PERIOD PARK AVENUE IS A TWO WAY STREET. CLOSE OFF PARKING SPACES.

LEGEND

- BARRICADE, TYP III, LIGHTED
- SIGN, TYPE B, TEMP
- PLASTIC DRUM, HIGH INTENSITY

GRAPHIC SCALE
300 0 150 300 600 1200
(IN FEET)
1 inch = 300 ft.

Item Description	Unit	Sht 33 Quantity
Sign, Type B, Temp, Prismatic, Furn	Sft	454
Sign, Type B, Temp, Prismatic, Oper	Sft	454
Barricade, Type III, High Intensity, Furn	Ea	10
Barricade, Type III, High Intensity, Oper	Ea	10
Plastic Drum, High Intensity, Furn	Ea	50
Plastic Drum, High Intensity, Oper	Ea	50
Traf Regulator Control	LS	1
Minor Traf Devices	LS	1
Lighted Arrow, Type B, Furn	Ea	2
Lighted Arrow, Type B, Oper	Ea	2
Sign Cover	Ea	2

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Professional Engineer
Professional Land Surveyor
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Professional Development Services

Michigan
South Haven, MI
South Bend, IN
Fairfield, IN

PROJECT:
NORTH SHORE DRIVE
RECONSTRUCTION PROJECT
CITY OF SOUTH HAVEN
VAN BUREN COUNTY, MI

SHEET TITLE:
TRAFFIC MAINTENANCE PLAN - 1

DRAWN BY: AS/AM
DESIGNED BY: CAK/SPJ/LT
PM REVIEW: TRD
QA/QC REVIEW:
DATE: MAY 2016
SEAL:

SIGNATURE:
DATE:

HARD COPY IS INTENDED TO BE 24" X 36" WHEN PLOTTED. SCALE(S) INDICATED AND GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER SIZES

SCALE:
HORZ: 1"=3000'
VERT: N/A

ACI JOB #
14-0890

SHEET NO.
33 of 48

NO.	REVISION DESCRIPTION:	BY:	DATE:

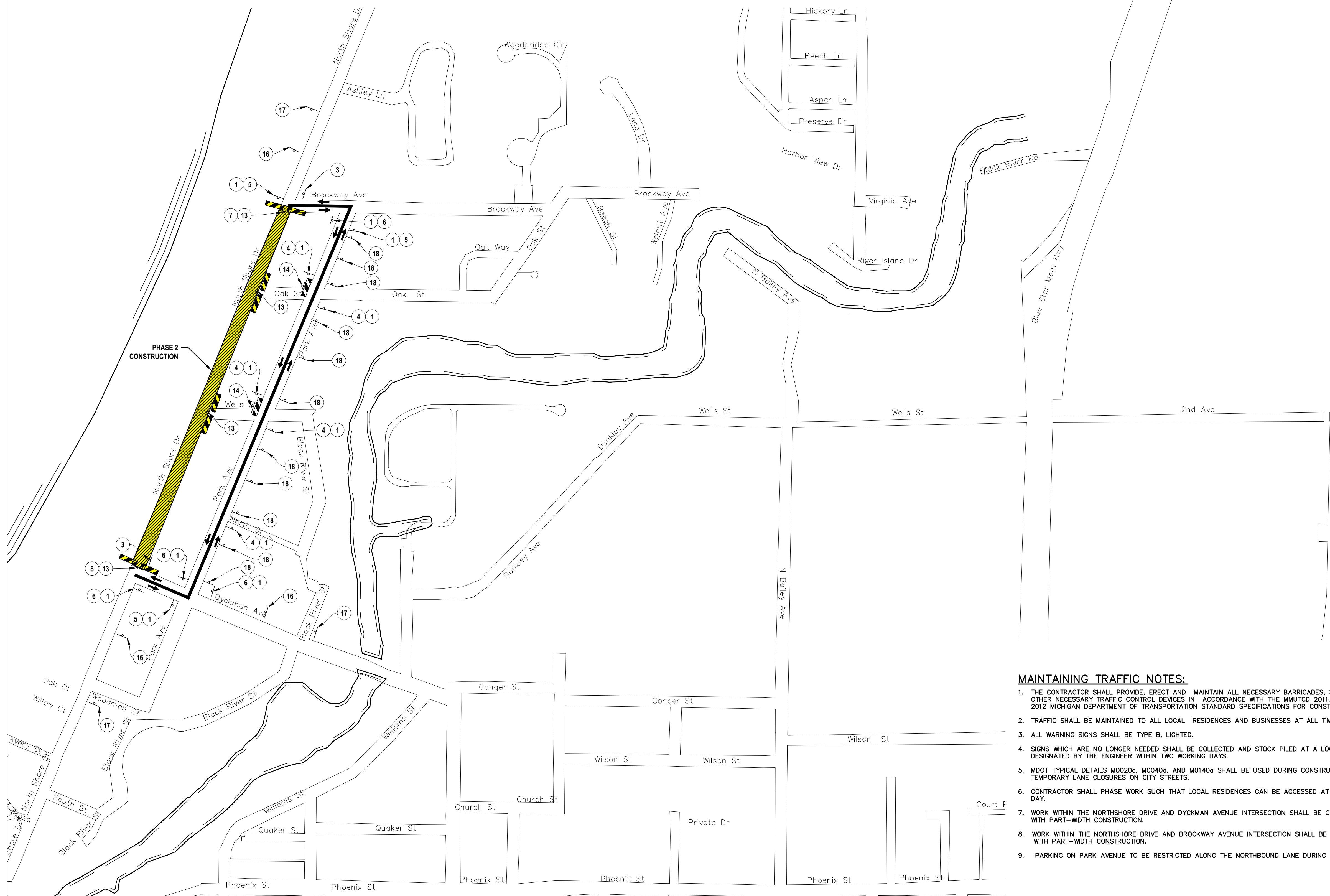
PHASE II - NORTH SHORE DRIVE

Work Description:

Removal of the existing pavement, storm sewer, and sanitary sewer on North Shore Drive from Dyckman Avenue to Brockway Avenue. Construction of new sanitary sewer, storm sewer, and a widened street section to allow parking on both the east and west sides of the road. Tree planting, landscaping, curb bump outs at cross-street intersections, and strategic locations to minimize pedestrian crossing length, provide protected parking areas, and help reduce vehicle speed on North Shore Drive.

Work Schedule:

Anticipated Start Date: October 1, 2016
Anticipated Completion Date: May 31, 2017



PHASE 2
ESTIMATED SIGN, TYPE B,
TEMPORARY PLAN QUANTITIES

SYMBOL	LABEL	DIMENSION (FT)	AREA (SFT)	QUANTITY (EA)	MAXIMUM QUANTITY (SFT)	
1	NORTH SHORE DR	D3-1	2' x 0.5'	1.0	12	12.0
2	DYCKMAN AVE.	D3-1	2' x 0.5'	1.0	0	0.00
3	END DETOUR	M4-8a	2' x 1.5'	3.0	2	6.0
4	DETOUR	M4-9	2.5' x 2'	5.0	5	25.0
5	DETOUR	M4-9L	2.5' x 2'	5.0	3	15.0
6	DETOUR	M4-9R	2.5' x 2'	5.0	3	15.0
7	DETOUR	M4-10L	4' x 1.5'	6.0	1	6.0
8	DETOUR	M4-10R	4' x 1.5'	6.0	1	6.0
9	TRAFFIC FINES DOUBLED IN WORK ZONES	R5-18	4' x 5'	20.0	0	0.0
10	MARE / KILL A WORKER \$7500 + 15 YEARS	R5-18b	4' x 5'	20.0	0	0.0
11	WORK ZONE BEGINS	R5-18c	4' x 4'	16.0	0	0.0
12	SIDEWALK CLOSED	R9-9	2' x 1'	2.0	0	0.00
13	ROAD CLOSED	R11-2	4' x 2.5'	10.0	4	40.0
14	ROAD CLOSED TO THRU TRAFFIC	R11-4	5' x 2.5'	12	2	24.0
15	ROAD WORK AHEAD	W20-1	4' x 4'	16	0	0.00
16	DETOUR AHEAD	W20-2	4' x 4'	16	3	48.0
17	ROAD CLOSED AHEAD	W20-3	4' x 4'	16	3	48.0
18	P	R8-3a	1' x 1'	1	11	11.0
TOTAL SIGNAGE (SFT)					256.00	

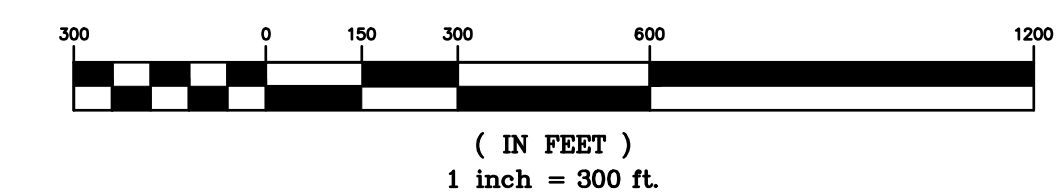
MAINTAINING TRAFFIC NOTES:

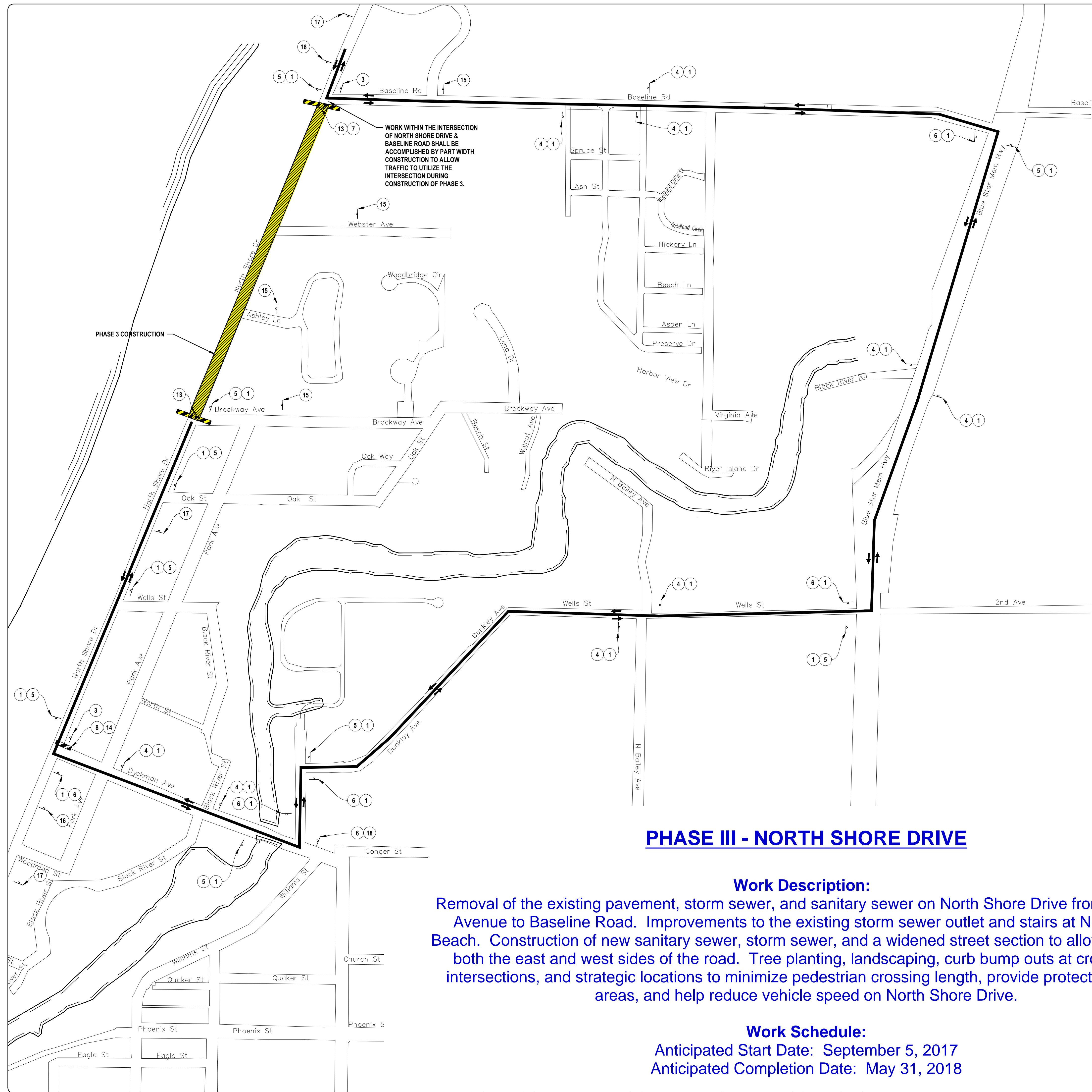
1. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS AND OTHER NECESSARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MMUTCD 2011, AND THE 2012 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION.
2. TRAFFIC SHALL BE MAINTAINED TO ALL LOCAL RESIDENCES AND BUSINESSES AT ALL TIMES.
3. ALL WARNING SIGNS SHALL BE TYPE B, LIGHTED.
4. SIGNS WHICH ARE NO LONGER NEEDED SHALL BE COLLECTED AND STOCK PILED AT A LOCATION DESIGNATED BY THE ENGINEER WITHIN TWO WORKING DAYS.
5. MDOT TYPICAL DETAILS M0020a, M0040a, AND M0140g SHALL BE USED DURING CONSTRUCTION FOR TEMPORARY LANE CLOSURES ON CITY STREETS.
6. CONTRACTOR SHALL PHASE WORK SUCH THAT LOCAL RESIDENCES CAN BE ACCESSED AT END OF THE DAY.
7. WORK WITHIN THE NORTHSHORE DRIVE AND DYCKMAN AVENUE INTERSECTION SHALL BE COMPLETED WITH PART-WIDTH CONSTRUCTION.
8. WORK WITHIN THE NORTHSHORE DRIVE AND BROCKWAY AVENUE INTERSECTION SHALL BE COMPLETED WITH PART-WIDTH CONSTRUCTION.
9. PARKING ON PARK AVENUE TO BE RESTRICTED ALONG THE NORTHBOUND LANE DURING THIS PHASE.

LEGEND

- BARRICADE, TYP III, LIGHTED
- SIGN, TYPE B, TEMP
- PLASTIC DRUM, HIGH INTENSITY

GRAPHIC SCALE





PHASE III - NORTH SHORE DRIVE

Work Description:

Removal of the existing pavement, storm sewer, and sanitary sewer on North Shore Drive from Brockway Avenue to Baseline Road. Improvements to the existing storm sewer outlet and stairs at Newcome Beach. Construction of new sanitary sewer, storm sewer, and a widened street section to allow parking on both the east and west sides of the road. Tree planting, landscaping, curb bump outs at cross-street intersections, and strategic locations to minimize pedestrian crossing length, provide protected parking areas, and help reduce vehicle speed on North Shore Drive.

Work Schedule:

Anticipated Start Date: September 5, 2017
 Anticipated Completion Date: May 31, 2018

PHASE 3 ESTIMATED SIGN, TYPE B, TEMPORARY PLAN QUANTITIES

SYMBOL	LABEL	DIMENSION (FT)	AREA (SFT)	QUANTITY (EA)	MAXIMUM QUANTITY (SFT)	
1	NORTH SHORE DR	D3-1	2' x 0.5'	1.0	23	23.0
2	DYCKMAN AVE	D3-1	2' x 0.5'	1.0	0	0.00
3	END DETOUR	M4-8a	2' x 1.5'	3.0	2	6.0
4	DETOUR	M4-9	2.5' x 2'	5.0	9	45.0
5	DETOUR	M4-9L	2.5' x 2'	5.0	9	45.0
6	DETOUR	M4-9R	2.5' x 2'	5.0	6	30.0
7	DETOUR	M4-10L	4' x 1.5'	6.0	1	6.0
8	DETOUR	M4-10R	4' x 1.5'	6.0	1	6.0
9	TRAFFIC FINES DOUBLED IN WORK ZONES	R5-1B	4' x 5'	20.0	0	0.0
10	HAZE/ M/L A WORKER \$7500 + 15 YEARS	R5-1Bb	4' x 5'	20.0	0	0.0
11	WORK ZONE BEGINS	R5-18c	4' x 4'	16.0	0	0.0
12	SIDEWALK CLOSED	R9-9	2' x 1'	2.0	0	0.00
13	ROAD CLOSED	R11-2	4' x 2.5'	10.0	2	20.0
14	ROAD CLOSED THRU TRAFFIC	R11-4	5' x 2.5'	12.5	1	12.5
15	ROAD WORK AHEAD	W20-1	4' x 4'	16	3	48.00
16	DETOUR AHEAD	W20-2	4' x 4'	16	2	32.0
17	ROAD CLOSED AHEAD	W20-3	4' x 4'	16	2	32.0
18	N. SHORE DR. CLOSED AT BROCKWAY AVE	R11-3 (MOD)	2.5' x 5'	12.5	1	12.5
TOTAL SIGNAGE (SFT)					318.00	

LEGEND

- BARRICADE, TYP III, LIGHTED
- SIGN, TYPE B, TEMP
- PLASTIC DRUM, HIGH INTENSITY

