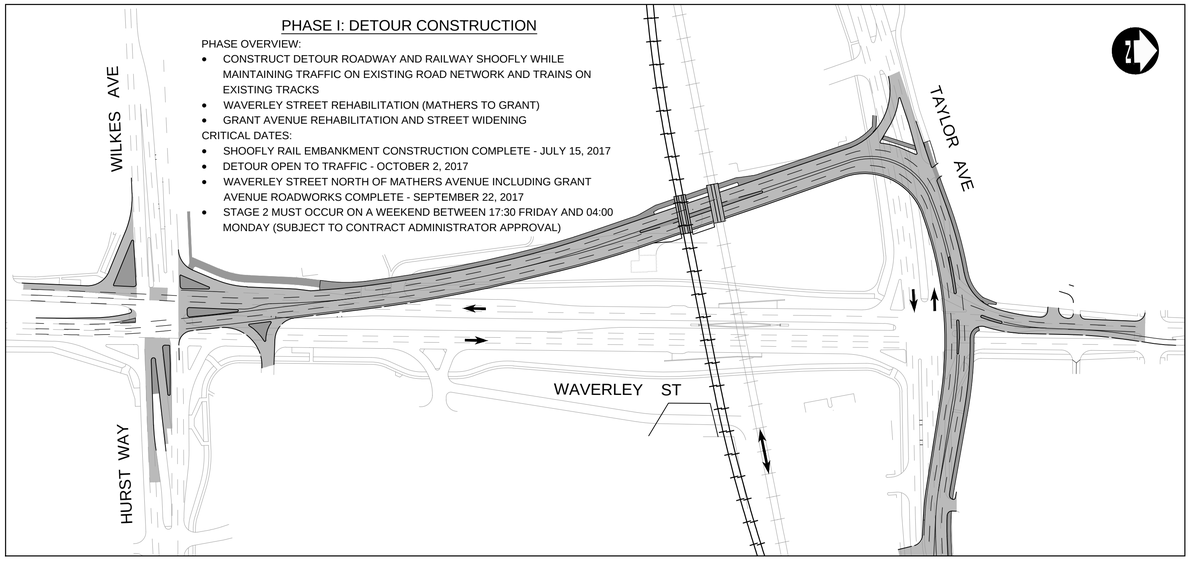
PHASE I: DETOUR CONSTRUCTION

PHASE OVERVIEW:

- CONSTRUCT DETOUR ROADWAY AND RAILWAY SHOOFLY WHILE MAINTAINING TRAFFIC ON EXISTING ROAD NETWORK AND TRAINS ON EXISTING TRACKS
- WAVERLEY STREET REHABILITATION (MATHERS TO GRANT)
- GRANT AVENUE REHABILITATION AND STREET WIDENING

CRITICAL DATES:

- SHOOFLY RAIL EMBANKMENT CONSTRUCTION COMPLETE - JULY 15, 2017
- DETOUR OPEN TO TRAFFIC - OCTOBER 2, 2017
- WAVERLEY STREET NORTH OF MATHERS AVENUE INCLUDING GRANT AVENUE ROADWORKS COMPLETE - SEPTEMBER 22, 2017
- STAGE 2 MUST OCCUR ON A WEEKEND BETWEEN 17:30 FRIDAY AND 04:00 MONDAY (SUBJECT TO CONTRACT ADMINISTRATOR APPROVAL)



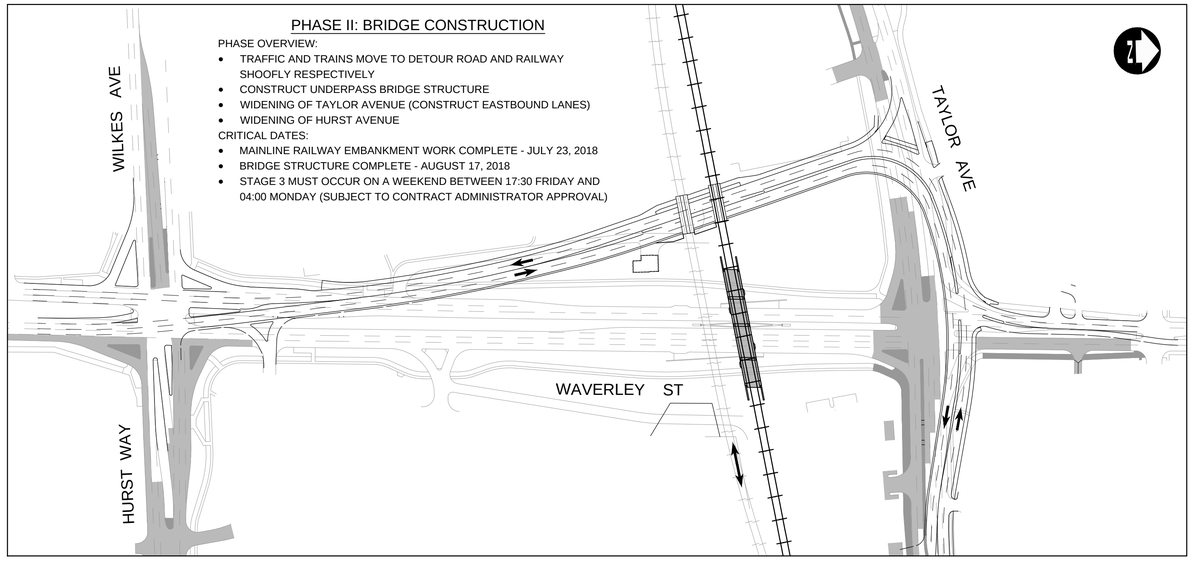
PHASE II: BRIDGE CONSTRUCTION

PHASE OVERVIEW:

- TRAFFIC AND TRAINS MOVE TO DETOUR ROAD AND RAILWAY SHOOFLY RESPECTIVELY
- CONSTRUCT UNDERPASS BRIDGE STRUCTURE
- WIDENING OF TAYLOR AVENUE (CONSTRUCT EASTBOUND LANES)
- WIDENING OF HURST AVENUE

CRITICAL DATES:

- MAINLINE RAILWAY EMBANKMENT WORK COMPLETE - JULY 23, 2018
- BRIDGE STRUCTURE COMPLETE - AUGUST 17, 2018
- STAGE 3 MUST OCCUR ON A WEEKEND BETWEEN 17:30 FRIDAY AND 04:00 MONDAY (SUBJECT TO CONTRACT ADMINISTRATOR APPROVAL)



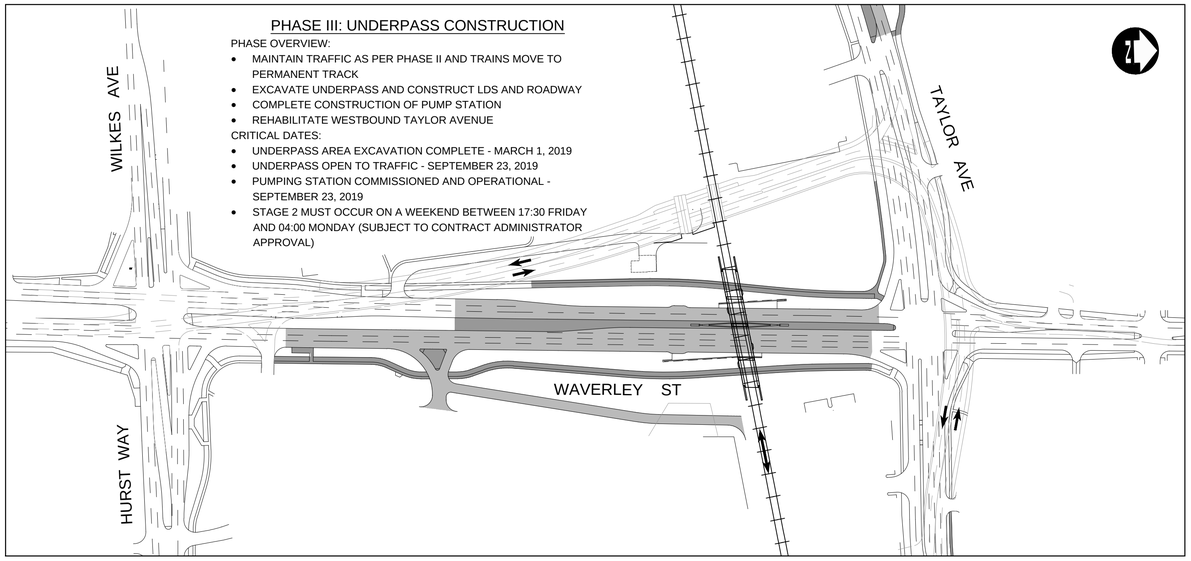
PHASE III: UNDERPASS CONSTRUCTION

PHASE OVERVIEW:

- MAINTAIN TRAFFIC AS PER PHASE II AND TRAINS MOVE TO PERMANENT TRACK
- EXCAVATE UNDERPASS AND CONSTRUCT LDS AND ROADWAY
- COMPLETE CONSTRUCTION OF PUMP STATION
- REHABILITATE WESTBOUND TAYLOR AVENUE

CRITICAL DATES:

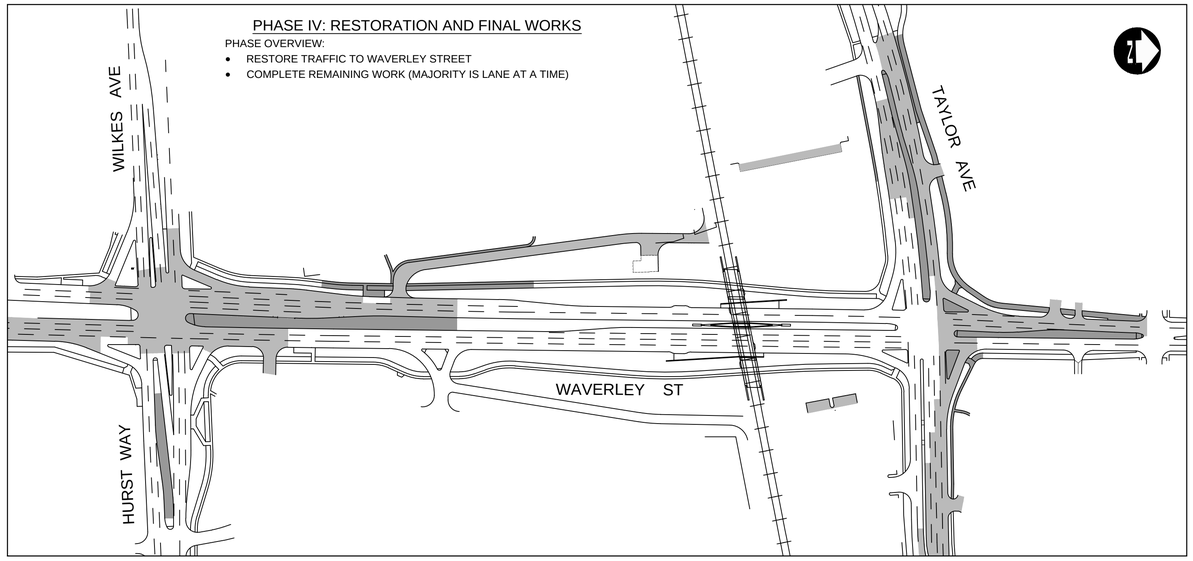
- UNDERPASS AREA EXCAVATION COMPLETE - MARCH 1, 2019
- UNDERPASS OPEN TO TRAFFIC - SEPTEMBER 23, 2019
- PUMPING STATION COMMISSIONED AND OPERATIONAL - SEPTEMBER 23, 2019
- STAGE 2 MUST OCCUR ON A WEEKEND BETWEEN 17:30 FRIDAY AND 04:00 MONDAY (SUBJECT TO CONTRACT ADMINISTRATOR APPROVAL)



PHASE IV: RESTORATION AND FINAL WORKS

PHASE OVERVIEW:

- RESTORE TRAFFIC TO WAVERLEY STREET
- COMPLETE REMAINING WORK (MAJORITY IS LANE AT A TIME)



GENERAL CONSTRUCTION STAGING NOTES:

1. PHASES PROVIDE GENERAL OVERVIEW OF EXPECTED STAGING. REFER TO STAGING SHEETS FOR FURTHER DETAILS. THE CONSTRUCTION SCHEDULE SHALL BE IN ACCORDANCE WITH THE CONTRACT SUPPLEMENTAL PROVISIONS AND SPECIFICATIONS.
2. NOT ALL SUB-STAGES ILLUSTRATED FOR LANE AT A TIME CONSTRUCTION AREAS.
3. LISTS OF MAJOR CONSTRUCTION ACTIVITIES IN EACH STAGE ARE NOT NECESSARILY THE SUGGESTED ORDER OF COMPLETION.
4. WORK IN SOME PHASES/STAGES MAY OVERLAP. FOR EXAMPLE, SOME PHASE II - STAGE 1 LDS WORK ON TAYLOR COULD COMMENCE DURING PHASE I - STAGE 3 IF TIME PERMITS.
5. ALTERATIONS TO THE STAGING SHOWN HEREIN TO BE PRESENTED AND APPROVED IN WRITING BY THE CONTRACT ADMINISTRATOR AT LEAST TWO DAYS PRIOR TO IMPLEMENTING CHANGE. (TWO WEEKS PRIOR FOR FULL CLOSURES)
6. CONTRACTOR LAYDOWN AREA ACCESS REFERS TO WHERE CONTRACTOR VEHICLES CAN ENTER OR EXIT THE TRAFFIC STREAM (FLAG PERSONS MAY BE REQUIRED). PROVIDE MINIMUM TWO WORKING DAYS NOTICE FOR CONTRACT ADMINISTRATOR TO REVIEW AND APPROVE EACH ACCESS. CONTRACTOR TO SUBMIT ACCESS PLAN AND LAYDOWN AREA AT COMMENCEMENT OF EACH PHASE.
7. CONTRACTOR MAY CHOOSE TO SECURE ANY LAYDOWN AREA WITH TEMPORARY FENCING AS LONG AS IT DOES NOT IMPEDE TRAFFIC/PEDESTRIANS.
8. STEPCUT AND SEAL CONCRETE JOINTS IN EXPOSED CONCRETE PAVEMENT JUST PRIOR TO OPENING AREAS TO GENERAL TRAFFIC.
9. DO NOT PLACE TOP LIFT OF ASPHALT FOR ANY PERMANENT ASPHALT PAVEMENTS UNTIL PHASE IV - STAGE 1B (EXCEPT TAYLOR EASTBOUND LANES AND WAVERLEY NORTH OF MATHERS).
10. LANDSCAPING OCCURS THROUGHOUT PROJECT AS AREAS ARE FINAL GRADED. DO NOT SEED RAIL EMBANKMENTS UNTIL TRACK CONSTRUCTION IS COMPLETE.
11. UTILIZE TEMPORARY PUMPING OR OTHER METHODS TO DRAIN DITCHES AND EXCAVATIONS AS NECESSARY DURING STAGING. DISCHARGE LOCATIONS SHALL BE APPROVED BY THE CONTRACT ADMINISTRATOR.
12. REFER TO RAILWAY DRAWINGS FOR RAILWAY STAGING DETAILS.
13. ALL TEMPORARY PAVEMENT STRUCTURES FOR MEDIAN CROSSOVERS OR WIDENINGS SHOWN ON STAGING DRAWINGS TO BE CONSTRUCTED AS PER CROSS SECTION "B" IN PHASE I - STAGE 1 UNLESS OTHERWISE NOTED.

GENERAL TRAFFIC CONTROL NOTES:

1. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
2. THE CONTRACTOR MAY NOT CLOSE LANES OR SIDEWALKS UNLESS WORK WILL COMMENCE WITHIN 24 HOURS. WORK MUST THEN PROCEED IN THE AREA CONTINUOUSLY UNLESS PAUSED DUE TO WORK BY OTHERS.
3. WHEN NO WORK IS BEING PERFORMED ON A PARTICULAR ROADWAY/SIDEWALK AND PROVIDING IT IS SAFE FOR VEHICLES OR PEDESTRIANS, LANE CLOSURES WILL NOT BE PERMITTED.
4. WHERE LEFT TURN LANES EXIST, AN ADDITIONAL LANE TO ACCOMMODATE THE LEFT TURN STORAGE SHALL BE MAINTAINED (A MINIMUM 15 m LONG) , UNLESS OTHERWISE APPROVED BY THE CONTRACT ADMINISTRATOR.
5. INTERSECTING LOCAL STREET, MEDIAN OPENING AND PRIVATE APPROACH ACCESS SHALL BE MAINTAINED AT ALL TIMES UNLESS JOINT/SLAB REPAIRS OR PLANING/PAVING OPERATIONS REQUIRE TEMPORARY CLOSURE. TEMPORARY CLOSURES ARE TO BE STAGGERED SUCH THAT CONSECUTIVE APPROACHES/INTERSECTIONS ARE NOT CLOSED AT THE SAME TIME. TEMPORARY COMPLETE CLOSURES SHALL BE NO LONGER THAN 10 MINUTES DURING ASPHALT PLANING/PAVING OPERATIONS AND SHALL BE COMPLETED DURING OFF PEAK HOURS.
6. FLAG PERSONS MAY BE NECESSARY TO MAINTAIN THE FLOW OF TRAFFIC DURING CERTAIN WORK OPERATIONS.
7. SHOULD THE CONTRACTOR BE UNABLE TO MAINTAIN PEDESTRIAN OR VEHICULAR ACCESS TO A RESIDENCE OR BUSINESS, HE/SHE SHALL REVIEW THE PLANNED DISRUPTION WITH THE BUSINESS OR RESIDENCE AND THE CONTRACT ADMINISTRATOR AND TAKE REASONABLE MEASURES TO MINIMIZE THE IMPACT. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HOURS NOTIFICATION TO THE AFFECTED RESIDENCE OR BUSINESS AND THE CONTRACT ADMINISTRATOR, PRIOR TO DISRUPTION OF ACCESS.
8. PEDESTRIAN AND CYCLIST ACCESS MUST BE MAINTAINED ON ONE SIDE OF EACH STREET AT ALL TIMES EXCEPT FOR HURST WAY UNLESS APPROVED BY THE CONTRACT ADMINISTRATOR. SEE STAGING DRAWINGS FOR SUGGESTED PEDESTRIAN ROUTES.
9. INSTALL TEMPORARY SNOW FENCE AS NECESSARY IN LOCATIONS SUCH AS OPEN EXCAVATIONS THAT ARE ADJACENT TO PEDESTRIAN FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE SNOW FENCE IN A PROPER WORKING CONDITION.
10. POLY POSTS DELINEATE TEMPORARY MEDIANS AND LANE EDGES.
11. MAINTAIN ACCESS FOR EMERGENCY VEHICLES.
12. RIGHT TURNS FOR TRUCKS MAY NEED TO BE RESTRICTED DURING VARIOUS STAGES AT VARIOUS LOCATIONS.
13. WEEKEND CLOSURES NOTED ARE DEFINED AS 17:30 ON FRIDAY TO 06:00 ON MONDAY (SUBJECT TO CONTRACT ADMINISTRATOR APPROVAL).
14. THE FOLLOWING SUPERCEDES TRAFFIC AND PEDESTRIAN CONTROL RESTRICTIONS LISTED ON SUBSEQUENT STAGING DRAWINGS (LIKELY PHASE I - STAGE 1). DURING THE CANADA SUMMER GAMES OCCURRING JULY 27, 2017 TO AUGUST 13, 2017, NO THROUGH LANE CLOSURES WILL BE PERMITTED AT ANY TIME OF THE DAY AS FOLLOWS:
    - NORTHBOUND WAVERLEY BETWEEN VICTOR LEWIS AND TAYLOR
    - SOUTHBOUND WAVERLEY BETWEEN TAYLOR AND VICTOR LEWIS
    - EASTBOUND TAYLOR BETWEEN WAVERLEY AND POSEIDON

GENERAL RAIL NOTES:

1. MAINTAIN ACCESS FOR C.N. AT ALL TIMES.
2. LAYDOWN LIMITS NEAR RAIL LINES SUBJECT TO C.N.R. APPROVAL.
3. COORDINATION AND COOPERATION WITH OTHERS (FOR EXAMPLE, RAIL CONSTRUCTION WILL REQUIRE UNRESTRICTED ACCESS FOR C.N. CONTRACTORS TO SHOOFLY EMBANKMENT AFTER DETOUR ROAD IN SERVICE)
4. CONTACT BNSF RAILWAY PRIOR TO WORK NEAR THEIR TRACKS ON TAYLOR AT LINDSAY.
5. PHASES OF THE PROJECT WILL HAVE C.N. INVOLVED WITH TEMPORARY TRAFFIC CONTROL.

APEGM
Certificate of Authorization
Dillon Consulting Limited (MB)
No. 1789 Date: 17/01/09

UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES DATE

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	17/01/09	DBW

DILLON CONSULTING

DESIGNED BY	TJH	CHECKED BY	DBW
DRAWN BY	TJH	APPROVED BY	DBW
HOR. SCALE	1:2000	RELEASED FOR CONSTRUCTION	
VERTICAL			
DATE		DATE	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
D.B. WIEBE
Member
22480
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT PROJECT NUMBER
16-3353

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

WAVERLEY STREET UNDERPASS AT CN MILE 3.89 RIVERS SUB
CONTRACT 2: UNDERPASS STRUCTURE, RAILWORKS, ROADWORKS, LAND DRAINAGE SEWER, PUMPING STATION AND LANDSCAPING WORKS

CITY DRAWING NUMBER: U-239-2016-C2-GE-025
SHEET 025 OF 052

CONSTRUCTION STAGING OVERVIEW AND GENERAL NOTES

CONSULTANT DRAWING NUMBER: C2-GE-025

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