

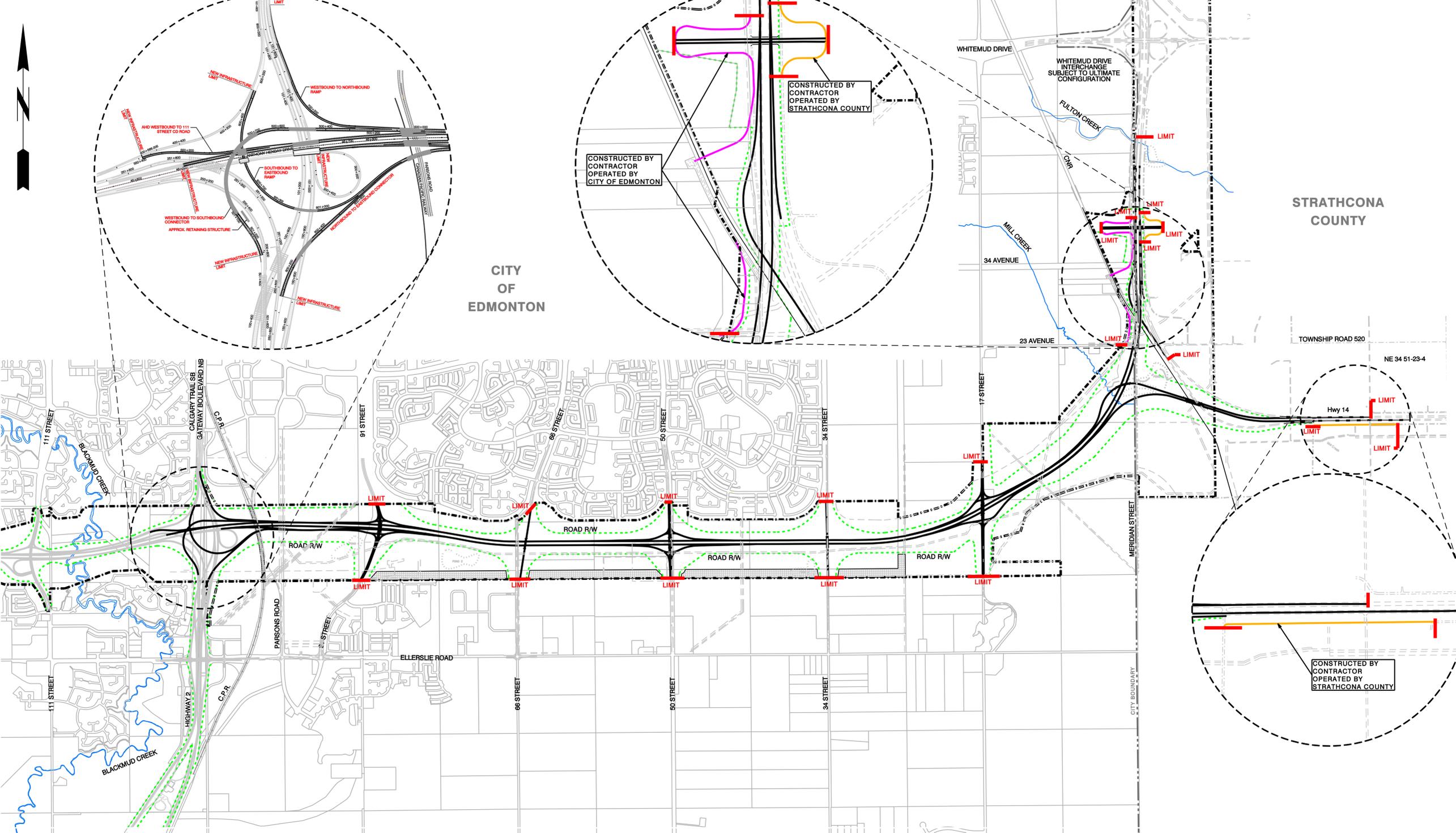
No.	REVISION	BY	DATE	BY	DATE
	ISSUED FOR DBFO AGREEMENT	RM	22/10/04	SURVEYED	
2	ISSUED FOR ADDENDUM #5	RM	26/07/04	DESIGNED	
1	ISSUED FOR ADDENDUM #4	RM	15/07/04	CHECKED	
0	ISSUED FOR INFORMATION	RM	09/20/04	DRAWN	

ANTHONY HENDAY DRIVE SOUTH - EAST EXTENSION NEW INFRASTRUCTURE LIMIT	BY	DATE
	TO IIMS	
	TO GIS	
	MICROFILMED	

COORDINATE DATA	PLAN No.	CONTRACT No.
NAD 83		
BASE LONGITUDE	PLAN LOCATION	

BAR CODE	PHOTO No.	TITLE SEARCH
	DATE	GRAPHICS FILE

FOR DETAILS SEE DWG 1B



- LEGEND:**
- LIMIT
 - TUC BOUNDARY
 - AREA EXCLUDED FROM TUC FOR THE PROJECT
 - ROAD R/W
 - ROADS - NEW INFRASTRUCTURE
 - ROADS - EXISTING INFRASTRUCTURE
 - SERVICE ROAD OPERATED BY STRATHCONA COUNTY
 - SERVICE ROAD OPERATED BY CITY OF EDMONTON

Issued For DBFO Agreement - Oct 22, 2004

CONSULTANT		ANTHONY HENDAY DRIVE SOUTH - EAST EXTENSION NEW INFRASTRUCTURE LIMIT				
JOB No. 0705-165-02-02	PLAN No.				SCALE 200m 0 500m HORIZONTAL	
UMA Engineering Ltd. 17007-107 Avenue, Edmonton, Alberta Ph. 466-7000		REGION	PLAN No.	PROJECT	CONTRACT No.	SHEET
		NORTH CENTRAL		HWY 216 : 04/06		1A

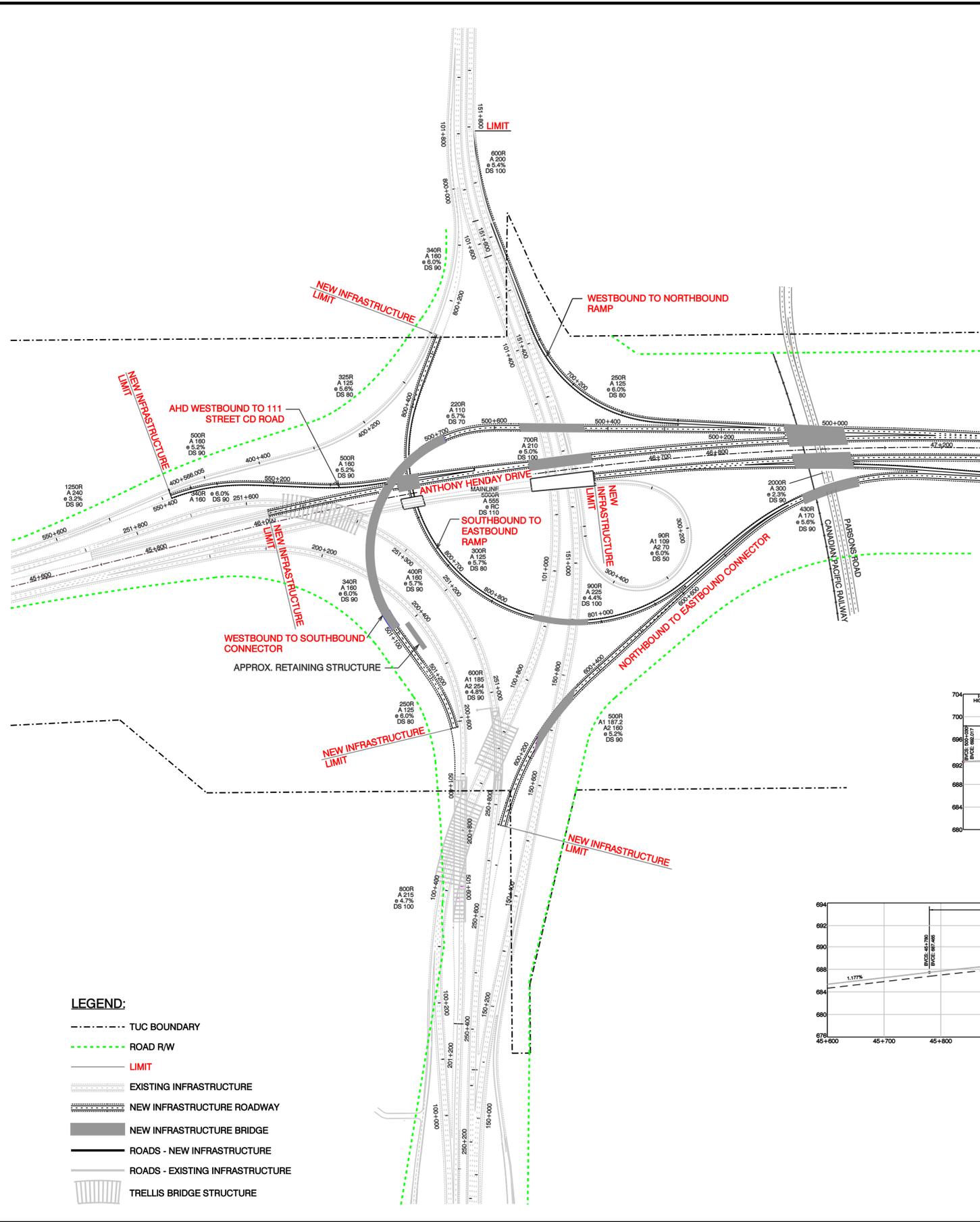
No.	REVISION	BY	DATE	BY	DATE
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2	ISSUED FOR ADDENDUM #5	RM	26/07/04	DESIGNED	
1	ISSUED FOR ADDENDUM #4	RM	15/07/04	CHECKED	
0	ISSUED FOR INFORMATION	RM	03/20/04	DRAWN	

ANTHONY HENDAY DRIVE SOUTH - EAST EXTENSION ANTHONY HENDAY DRIVE / HWY 2 INTERCHANGE DETAILS	BY	DATE
	TO IDMS	
	TO GIS	
	MICROFILMED	

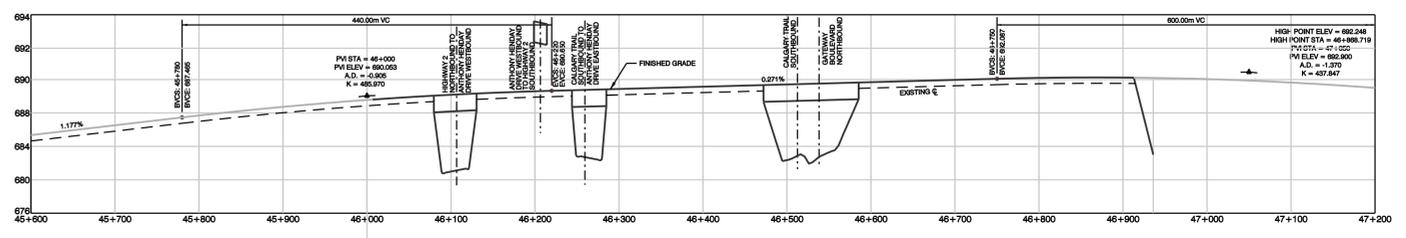
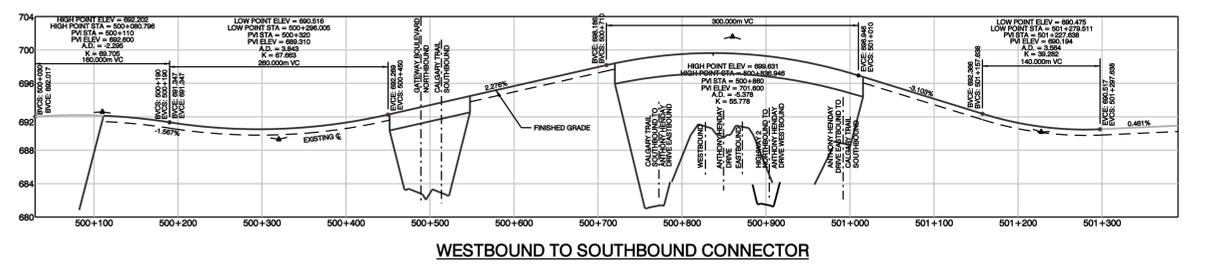
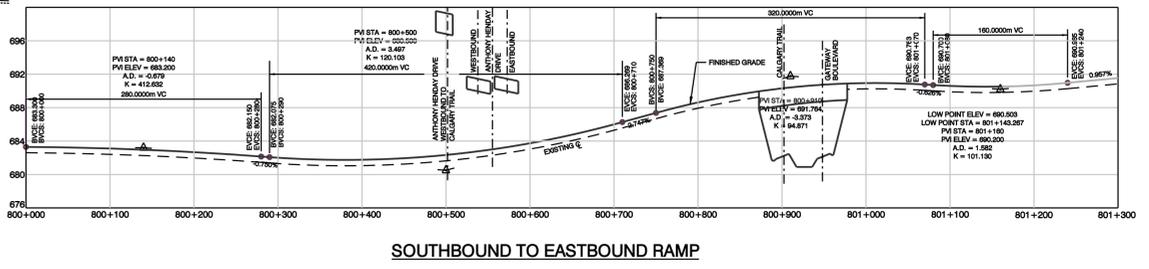
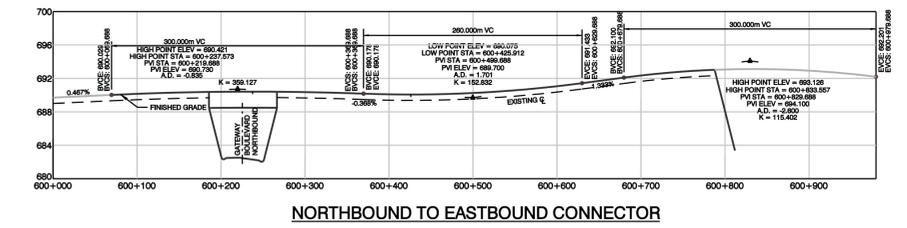
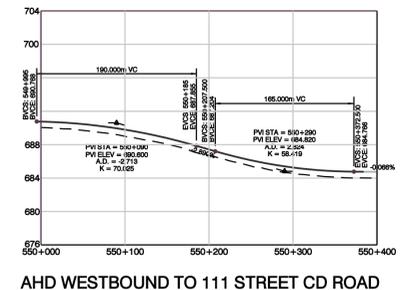
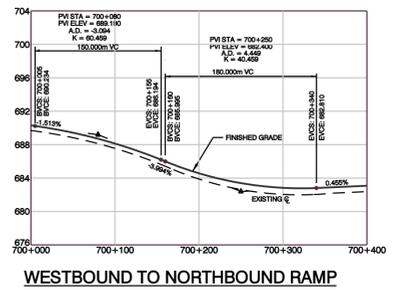
PLAN No.	CONTRACT No.	PLAN LOCATION
NAD 83		

COORDINATE DATA	BASE LONGITUDE

PHOTO No.	TITLE SEARCH	DATE	GRAPHICS FILE



- LEGEND:**
- TUC BOUNDARY
 - ROAD R/W
 - LIMIT
 - EXISTING INFRASTRUCTURE
 - NEW INFRASTRUCTURE ROADWAY
 - NEW INFRASTRUCTURE BRIDGE
 - ROADS - NEW INFRASTRUCTURE
 - ROADS - EXISTING INFRASTRUCTURE
 - TRELLIS BRIDGE STRUCTURE

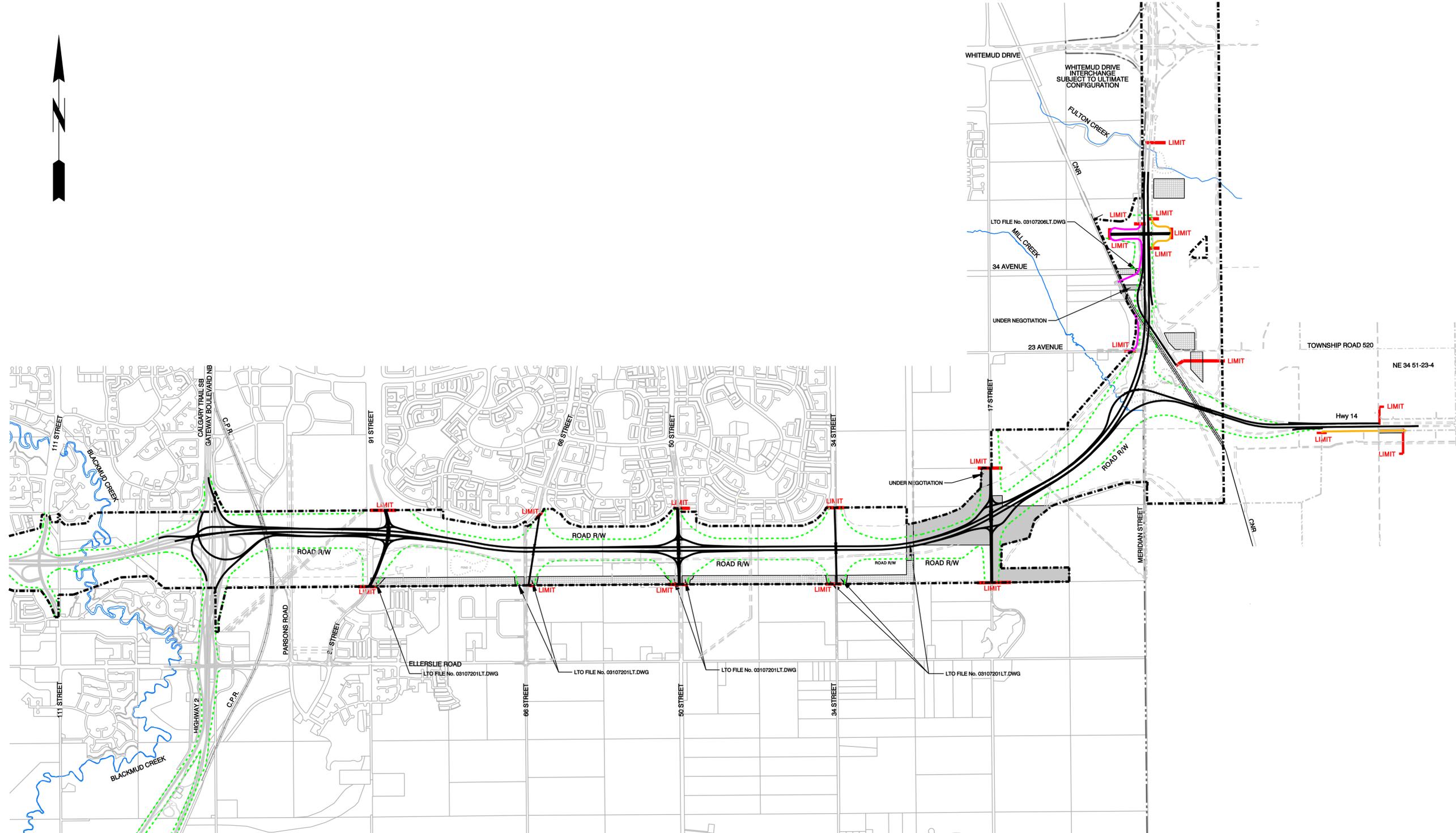


Issued For DBFO Agreement - Oct 22, 2004

CONSULTANT		ANTHONY HENDAY DRIVE SOUTH - EAST EXTENSION	
JOB No. 0705-165-02-02		PLAN No.	
uma UMA Engineering Ltd. 17007-107 Avenue, Edmonton, Alberta Ph. 468-7000		ANTHONY HENDAY DRIVE / HWY 2 INTERCHANGE DETAILS	
REGION	PLAN No.	PROJECT	CONTRACT No.
NORTH CENTRAL		HWY 216 : 04/06	
			SHEET
			1B

SCALE
0 20m HORIZONTAL

No.	REVISION	BY	DATE	BY	DATE
	ISSUED FOR DBFO AGREEMENT	RM	22/10/04	SURVEYED	
2	ISSUED FOR ADDENDUM #5	RM	26/07/04	DESIGNED	
1	ISSUED FOR ADDENDUM #4	RM	15/07/04	CHECKED	
0	ISSUED FOR INFORMATION	RM	09/20/04	DRAWN	
ANTHONY HENDAY DRIVE SOUTH - EAST EXTENSION NEW INFRASTRUCTURE PROPERTY REQUIREMENTS		BAR CODE	PLAN No.	CONTRACT No.	DATE
			NAD 83	PLAN LOCATION	TO GIS
			BASE LONGITUDE		MICROFILMED
			PHOTO No.		
			TITLE SEARCH DATE	GRAPHICS FILE	
			COORDINATE DATA		



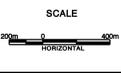
- LEGEND:**
- - - TUC BOUNDARY
 - - - ROAD R/W
 - - - LIMIT
 - - - CITY BOUNDARY
 - PRIVATELY OWNED PARCELS WITHIN THE EXISTING TUC BOUNDARY
 - PROPERTY TO BE PURCHASED BY APRIL 1, 2005
 - ROADS - NEW INFRASTRUCTURE
 - ROADS - EXISTING INFRASTRUCTURE
 - SERVICE ROAD OPERATED BY STRATHCONA COUNTY
 - SERVICE ROAD OPERATED BY CITY OF EDMONTON

CONSULTANT
 JOB No. 0705-165-02-02 PLAN No.
UMA Engineering Ltd.
 17007-107 Avenue,
 Edmonton, Alberta
 Ph. 466-7000

ANTHONY HENDAY DRIVE SOUTH - EAST EXTENSION
NEW INFRASTRUCTURE PROPERTY REQUIREMENTS

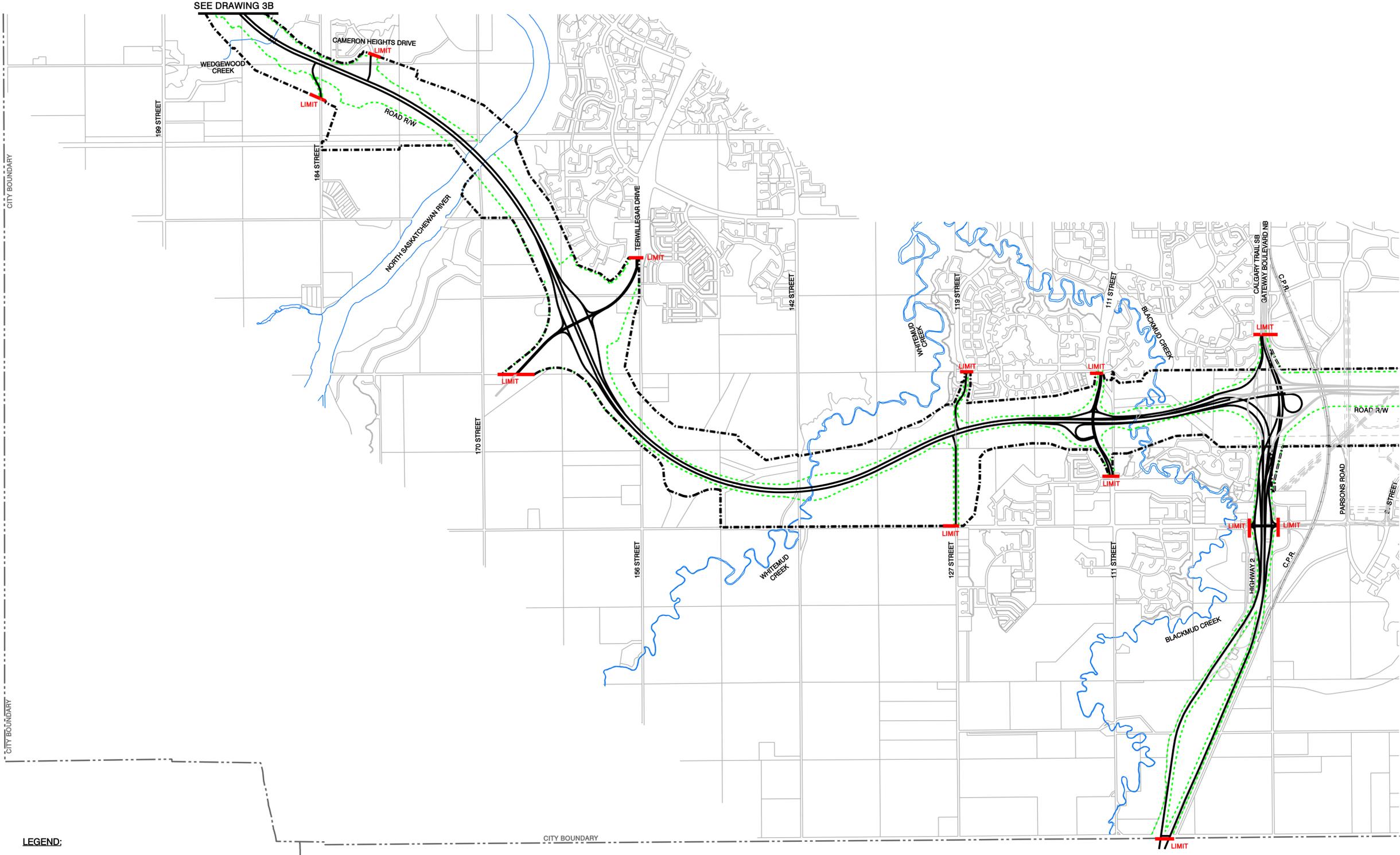


REGION	PLAN No.	PROJECT	CONTRACT No.	SHEET
NORTH CENTRAL		HWY 216 : 04/06		2



Issued For DBFO Agreement - Oct 22, 2004

No.	REVISION	BY	DATE	BY	DATE	PHOTO No.	COORDINATE DATA	PLAN No.	BAR CODE	ANTHONY HENDAY DRIVE SOUTH - WEST QUADRANT EXISTING INFRASTRUCTURE LIMIT	TO IIMS	BY	DATE
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2	ISSUED FOR ADDENDUM #5	RM	26/07/04	DESIGNED		GRAPHICS FILE	BASE LONGITUDE	PLAN LOCATION			MICROFILMED		
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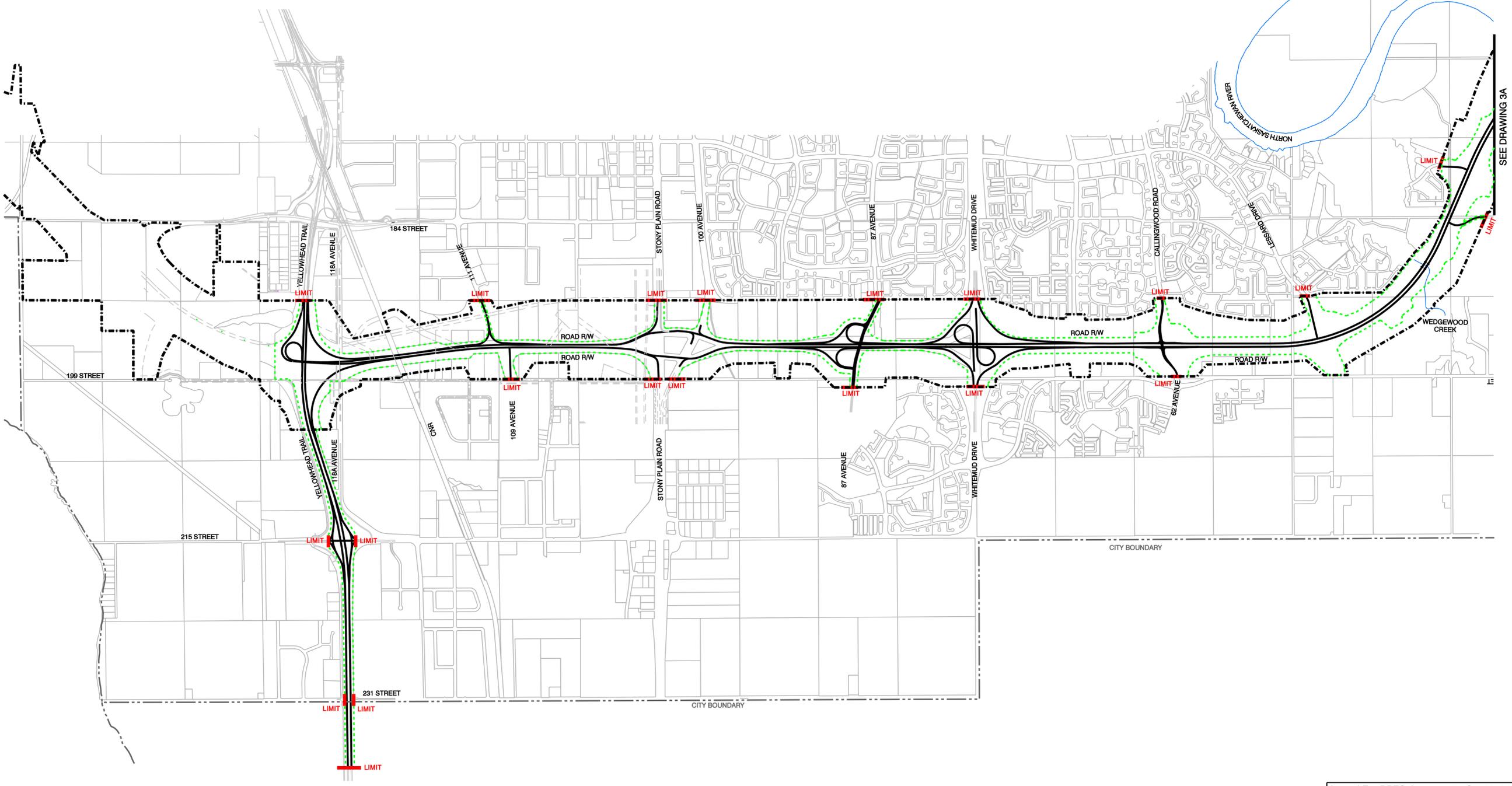
Issued For DBFO Agreement - Oct 22, 2004

CONSULTANT		ANTHONY HENDAY DRIVE SOUTH - WEST QUADRANT EXISTING INFRASTRUCTURE LIMIT		
JOB No. 0705-165-02-02	PLAN No.			
		UMA Engineering Ltd. 17007-107 Avenue, Edmonton, Alberta Ph. 466-7000		SCALE
REGION	PLAN No.	PROJECT	CONTRACT No.	SHEET
NORTH CENTRAL		HWY 216 - 04/06		3A

No.	REVISION	BY	DATE	BY	DATE
	ISSUED FOR DBFO AGREEMENT	RM	22/10/04	SURVEYED	
3	ISSUED FOR ADDENDUM #5	RM	26/07/04	DESIGNED	
2	ISSUED FOR ADDENDUM #4	RM	15/07/04	CHECKED	
1	ISSUED FOR INFORMATION	RM	09/20/04	DRAWN	
0					

PHOTO No.	COORDINATE DATA	BAR CODE	BY	DATE
TITLE SEARCH DATE	NAD 83		TO IIMS	
GRAPHICS FILE	BASE LONGITUDE		TO GIS	
			MICROFILMED	

ANTHONY HENDAY DRIVE SOUTH - WEST QUADRANT EXISTING INFRASTRUCTURE LIMIT
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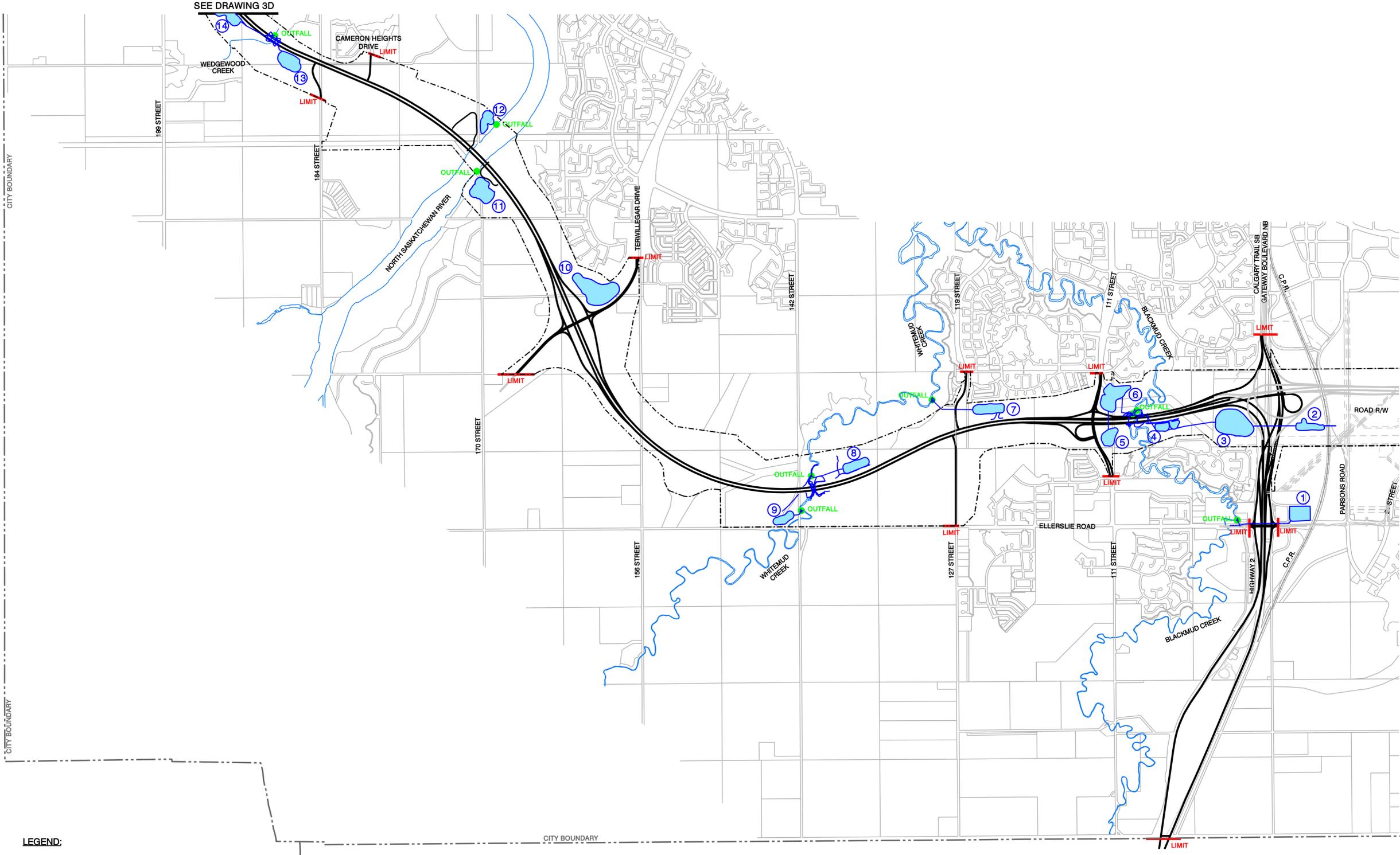
LEGEND:

- TUC BOUNDARY
- ROAD R/W
- LIMIT
- CITY BOUNDARY
- ROADS - EXISTING INFRASTRUCTURE

Issued For DBFO Agreement - Oct 22, 2004

CONSULTANT		ANTHONY HENDAY DRIVE SOUTH - WEST QUADRANT EXISTING INFRASTRUCTURE LIMIT		
JOB No. 0705-165-02-02	PLAN No.			
		UMA Engineering Ltd. 17007-107 Avenue, Edmonton, Alberta Ph. 486-7000		SCALE
REGION	PLAN No.	PROJECT	CONTRACT No.	SHEET
NORTH CENTRAL		HWY 216 : 04/06		3B

No.	REVISION	BY	DATE	SURVEYED	BY	DATE	PHOTO No.	COORDINATE DATA	PLAN No.	BAR CODE	ANTHONY HENDAY DRIVE SOUTH - WEST QUADRANT EXISTING INFRASTRUCTURE MAJOR DRAINAGE	BY	DATE
	ISSUED FOR DBFO AGREEMENT	RM	22/10/04	DESIGNED	TO GIS	TO DBMS	TITLE SEARCH DATE	NAD 83	CONTRACT No.		TO GIS		
1	ISSUED FOR ADDENDUM #5	RM	26/07/04	CHECKED			GRAPHICS FILE	BASE LONGITUDE	PLAN LOCATION		MAJOR DRAINAGE		
0	ISSUED FOR INFORMATION	RM	03/20/04										



- LEGEND:**
- TUC BOUNDARY
 - LIMIT
 - CITY BOUNDARY
 - ROADS - NEW INFRASTRUCTURE
 - ROADS - EXISTING INFRASTRUCTURE
 - STORMWATER MANAGEMENT FACILITY (SWMF)
 - OUTFALL

ISSUED FOR DBFO AGREEMENT - 22/10/04

CONSULTANT		ANTHONY HENDAY DRIVE SOUTH - WEST QUADRANT EXISTING INFRASTRUCTURE MAJOR DRAINAGE					
JOB No. 0705-165-02-02	PLAN No.						
UMA Engineering Ltd. 17007-107 Avenue, Edmonton, Alberta Ph. 486-7000		REGION	PLAN No.	PROJECT	CONTRACT No.	SHEET	SCALE
		NORTH CENTRAL		HWY 216 - 04/06		3C	

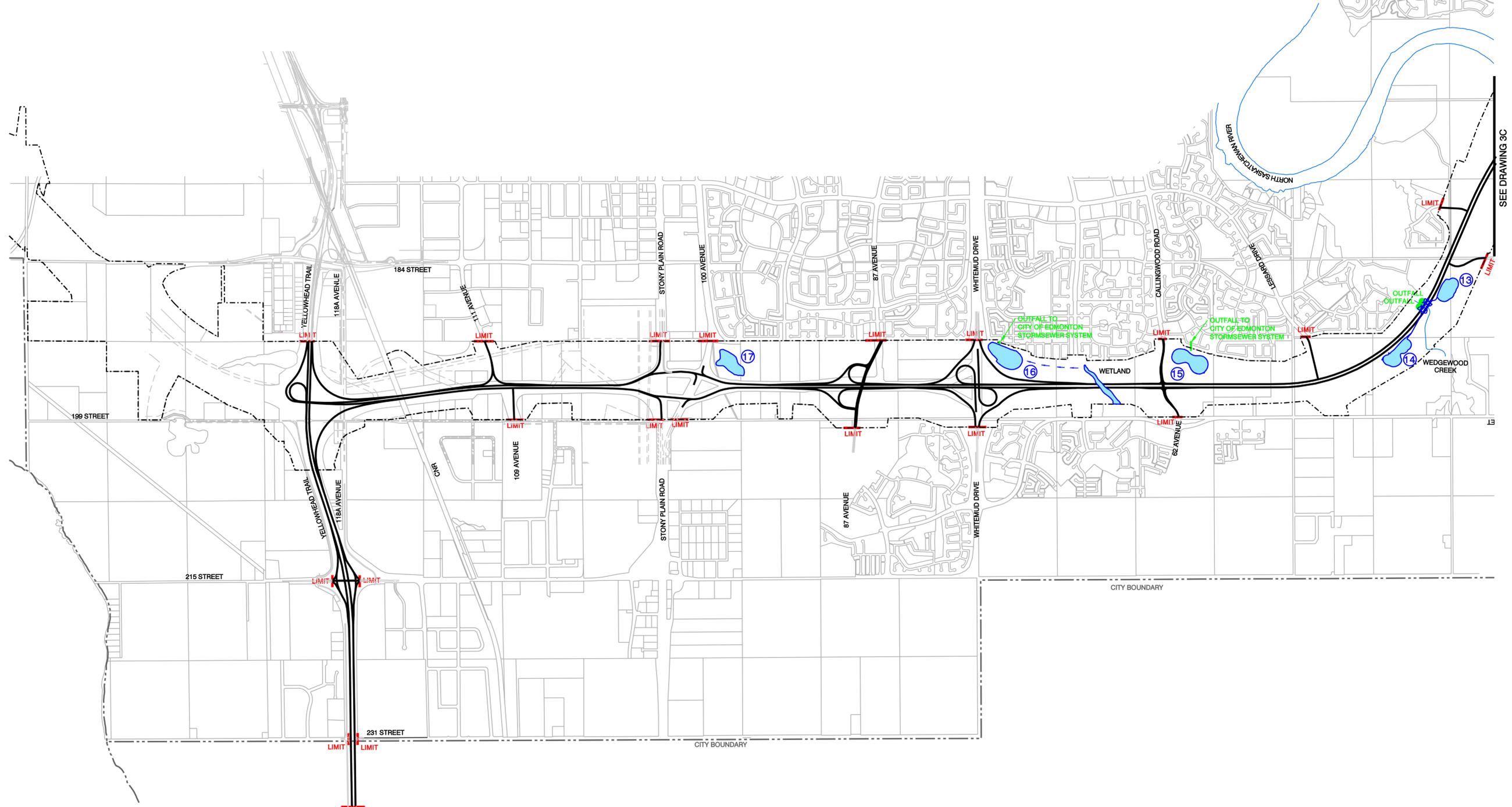
No.	REVISION	BY	DATE	BY	DATE
	ISSUED FOR DBFO AGREEMENT	RM	22/10/04	SURVEYED	
2	ISSUED FOR ADDENDUM #5	RM	26/07/04	DESIGNED	
1	ADDED SWMF AT 109 AVE / AHD	RM	17/06/04	CHECKED	
0	ISSUED FOR INFORMATION	RM	09/20/04	DRAWN	
TO IIMS		BY		DATE	
TO GIS		TO IIMS		TO IIMS	
MICROFILMED		MICROFILMED		MICROFILMED	

ANTHONY HENDAY DRIVE
SOUTH - WEST QUADRANT
EXISTING INFRASTRUCTURE
MAJOR DRAINAGE

BAR CODE

COORDINATE DATA
PLAN No.
CONTRACT No.
MAD 88
BASE LONGITUDE
PLAN LOCATION

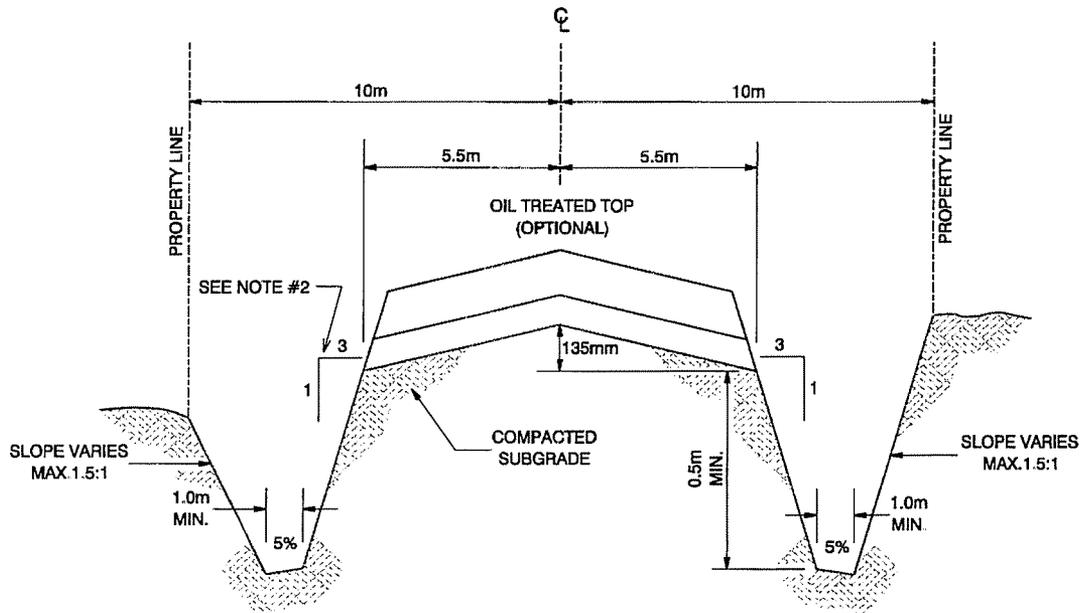
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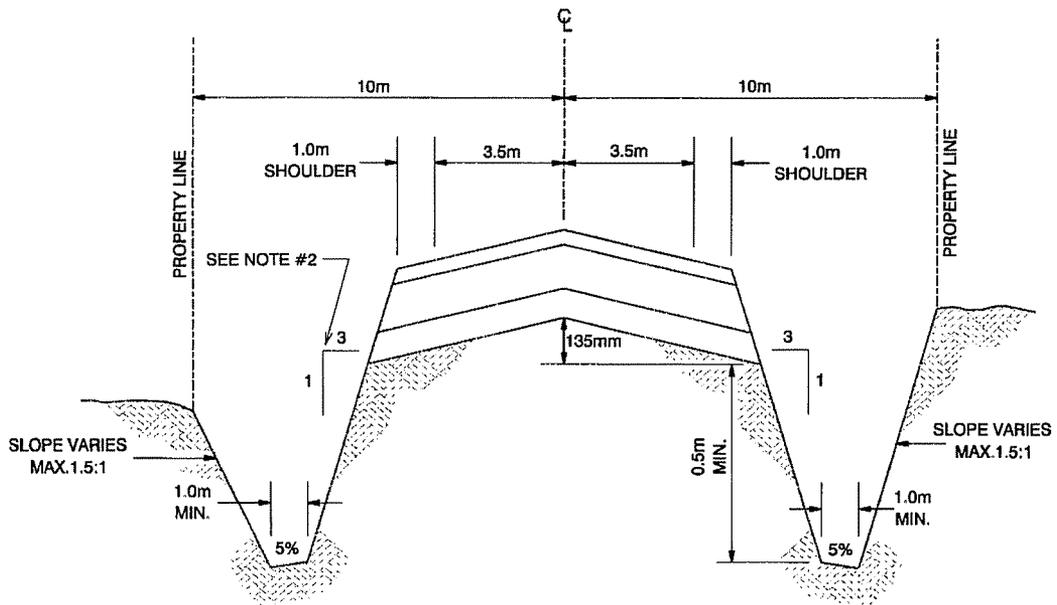
- LEGEND:**
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 - CITY BOUNDARY
 - ROADS - EXISTING INFRASTRUCTURE
 - LIMIT
 - STORMWATER MANAGEMENT FACILITY (SWMF)
 - OUTFALL

Issued For DBFO Agreement - Oct 22, 2004

CONSULTANT		ANTHONY HENDAY DRIVE SOUTH - WEST QUADRANT EXISTING INFRASTRUCTURE MAJOR DRAINAGE		
JOB No. 0705-165-02-02	PLAN No.			
		UMA Engineering Ltd. 17007-107 Avenue, Edmonton, Alberta Ph. 486-7000		SCALE
REGION	PLAN No.	PROJECT	CONTRACT No.	SHEET
NORTH CENTRAL		HWY 216 - 04/06		3D



INTERIM SECTION



PAVED SECTION

NOTES:

1. ENGINEERING FABRIC TO BE PLACED BETWEEN SUBGRADE AND WHEN A WET SUBGRADE IS ENCOUNTERED, AS DIRECTED BY THE ENGINEER.
2. SIDESLOPE DEPENDS ON DESIGN SPEED AND TRAFFIC VOLUME, REFER TO TAC GUIDELINES.

TAC CLASSIFICATION R.L.U. 50



TWO LANE RURAL ROADWAY

Date Approved:
JULY, 2003

Drawn By:
JW

Approved

Revision #

Drawing #
4024

Scale: NTS

Checked By:
PSL

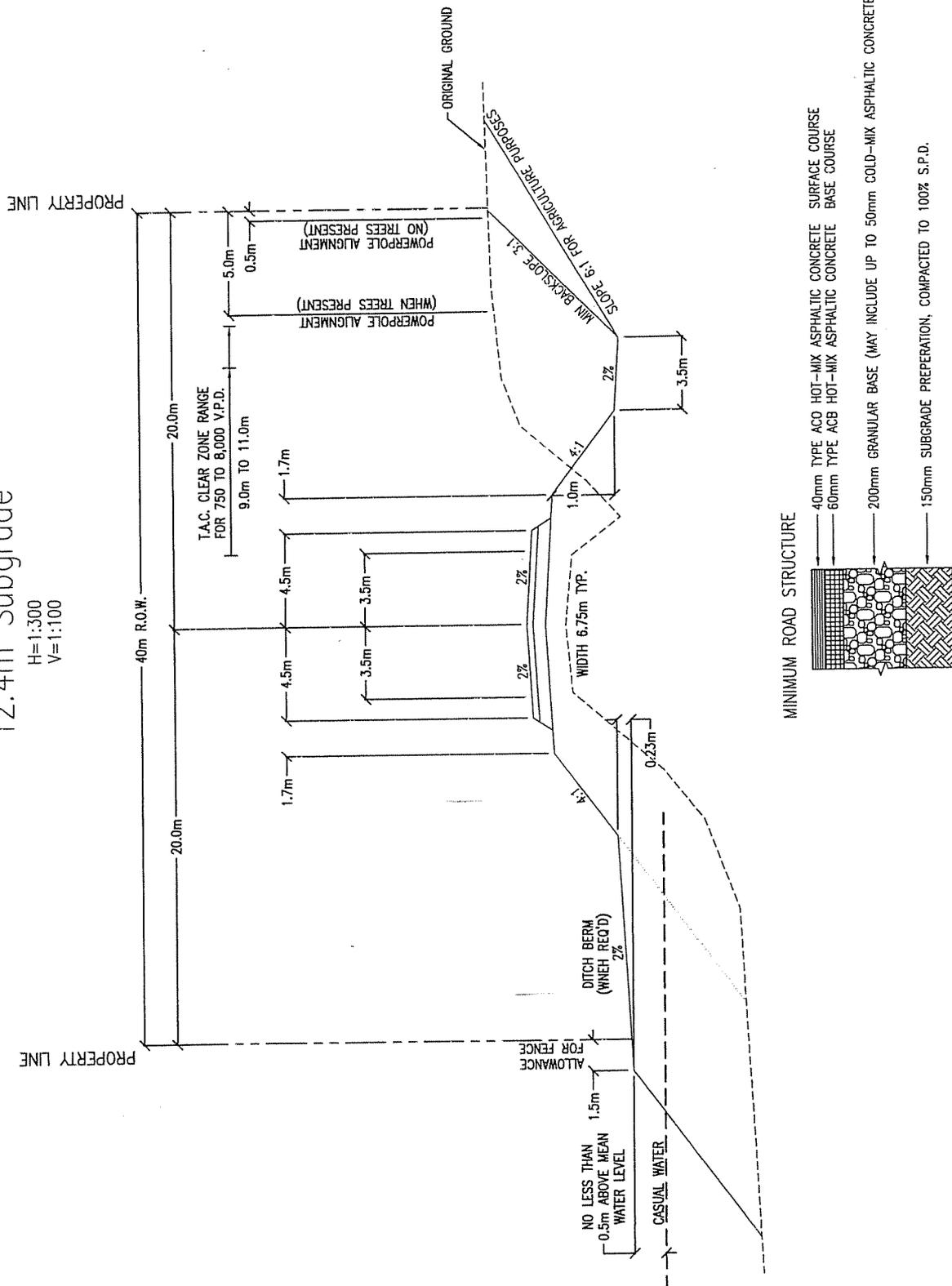
[Signature]

Class I Rural Road

9.0m Finished Top

12.4m Subgrade

H=1:300
V=1:100



MINIMUM ROAD STRUCTURE

- 40mm TYPE ACB HOT-MIX ASPHALTIC CONCRETE SURFACE COURSE
- 60mm TYPE ACB HOT-MIX ASPHALTIC CONCRETE BASE COURSE
- 200mm GRANULAR BASE (MAY INCLUDE UP TO 50mm COLD-MIX ASPHALTIC CONCRETE)
- 150mm SUBGRADE PREPARATION, COMPACTED TO 100% S.P.D.

- NOTES:
1. STANDARD ALIGNMENT OF POWERPOLES IS 0.5m FROM PROPERTY LINE WHEN NO TREES ARE PRESENT. IF PRESENT, THE REQUIRED 5.0m OFFSET BETWEEN POWERLINES AND TREE CANOPY IS MET WITH A 5.0m POWERPOLE OFFSET WITHIN THE RIGHT-OF-WAY.
 2. GEOTECHNICAL CONSULTANT TO CONFIRM SUITABILITY OF CROSS-SECTION STRUCTURE.
 3. MINIMUM LONGITUDINAL GRADE FOR ROAD AND DITCH TO BE 0.3%, DESIRABLE 0.6%.
 4. POSITIVE DRAINAGE IS TO BE MAINTAINED AT ALL LOCATIONS.
 5. MINIMUM 3:1 BACKSLOPING, DESIRABLE 4:1, WITH PROVISION FOR 6:1 FOR AGRICULTURAL PURPOSES.

REVISIONS		
Date	Details	Drawn
02/03/19	Final Revisions	R. Dekker
01/01/04	Rescaling	J. Edgington
00/11/18	Formatting	R. Dekker
00/03/28	Dimensions & Text	T. Tarnowski

Strathcona
County

2001 Sherwood Drive, Sherwood Park
Alberta, T8A 3W7, CANADA

© 2003

Class I (Hot-Mix Asphaltic Concrete) Rural Grid Road
40.0m Right-of-Way, 9.0m Finished Top, 12.4m Subgrade

Approved: R. F. Horton, P. Eng.

Drawing Number

Checked: C. E. Batty, P. Eng.

B-1 Rural

Date: 95/01/16

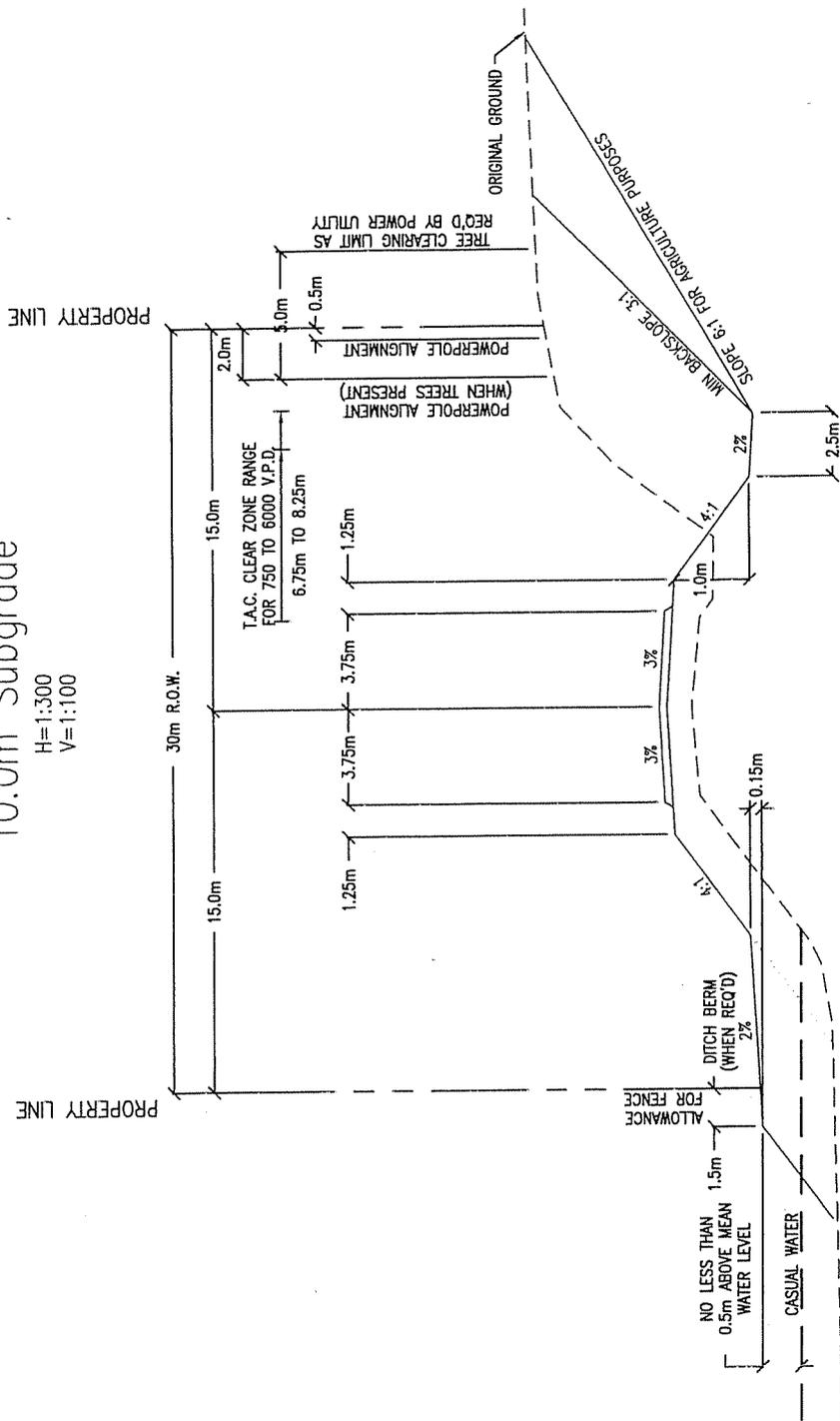
Scale: AS NOTED

Drawn: Richard Dekker, C.E.T.

Engineering & Environmental Planning Department

Class III Rural Road 7.5m Finished Top 10.0m Subgrade

H=1:300
V=1:100



MINIMUM ROAD STRUCTURE



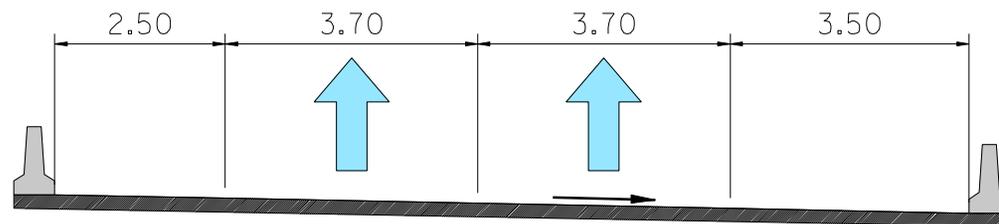
NOTES:

1. TYPICAL 30.0m ROAD RIGHT-OF-WAY WITH BACKSLOPING AGREEMENTS.
2. STANDARD ALIGNMENT OF POWERPOLES IS 0.5m FROM PROPERTY LINE WHEN NO TREES ARE PRESENT. IF PRESENT, THE REQUIRED 5.0m OFFSET BETWEEN POWERLINES AND TREE CANOPY (AS REQUIRED BY THE POWER UTILITY COMPANY) IS MET WITH A 2.0m POWERPOLE OFFSET WITHIN THE RIGHT-OF-WAY AND 3.0m OF TREE CLEARING WITHIN PRIVATE PROPERTY.
3. CLASS IV RURAL GRID ROAD AS ABOVE BUT SURFACE TREATED WITH DUST ABATEMENT MATERIAL.
4. MINIMUM LONGITUDINAL GRADE FOR ROAD AND DITCH TO BE 0.3%, DESIRABLE 0.6%.
5. POSITIVE DRAINAGE IS TO BE MAINTAINED AT ALL LOCATIONS.
6. MINIMUM 3:1 BACKSLOPING, DESIRABLE 4:1, WITH PROVISION FOR 6:1 FOR AGRICULTURAL PURPOSES.

REVISIONS			Strathcona County	2001 Sherwood Drive, Sherwood Park Alberta, T8A 3W7, CANADA	© 2003
Date	Details	Drawn			
01/05/14	Revisions and Rescaling	R. Dekker	Class III (Gravelled) Rural Grid Road 30.0m Right-of-Way, 7.5m Finished Top, 10.0m Subgrade		
00/09/05	Formatting	R. Dekker	Approved: R. F. Horton, P. Eng.		
00/03/28	Dimensions & Text	T. Tarnowski	Checked: C. E. Batty, P. Eng.		
			Date: 89/09/11	Scale: N.T.S.	Drawn: Richard Dekker, C.E.T.

Drawing Number
B-3 Rural
Engineering & Environmental Planning Department

NB-EB Connector Over Gateway Boulevard Looking Northeast

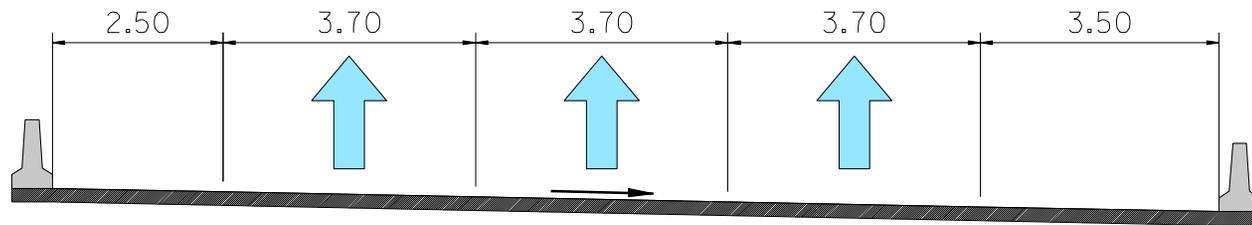


Stage 1 and Ultimate

2004 March 04

Bridge Cross-Section 1 of 23

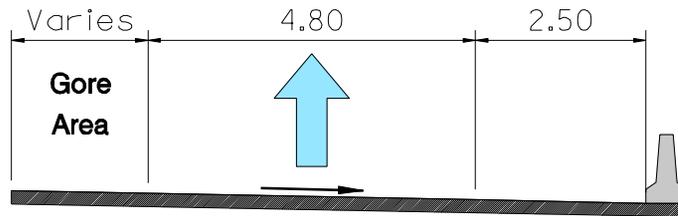
NB-EB Connector Over CPR Looking East



Stage 1 and Ultimate

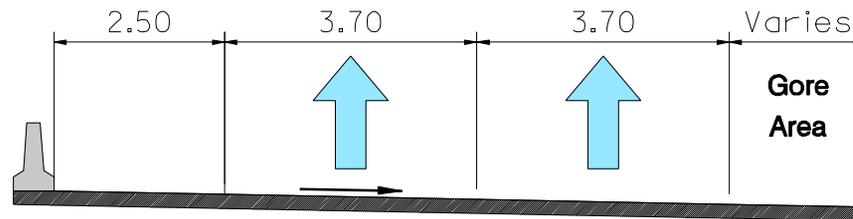
NOTE: Lane markings as required for Stage 1

EB Slip Ramp over CPR Looking East

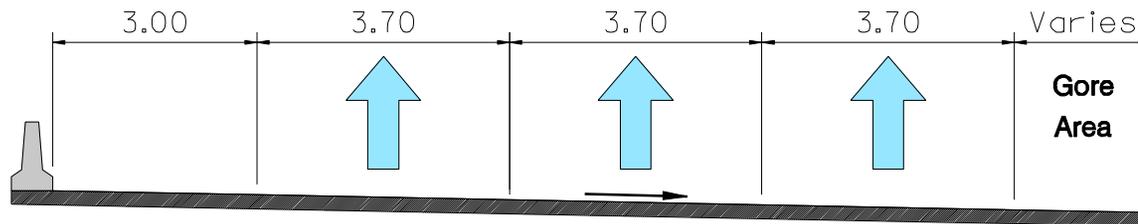


Stage 1 and Ultimate

EB Mainline Over CPR Looking East

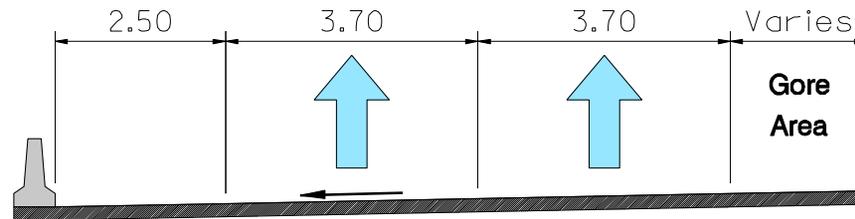


Stage 1

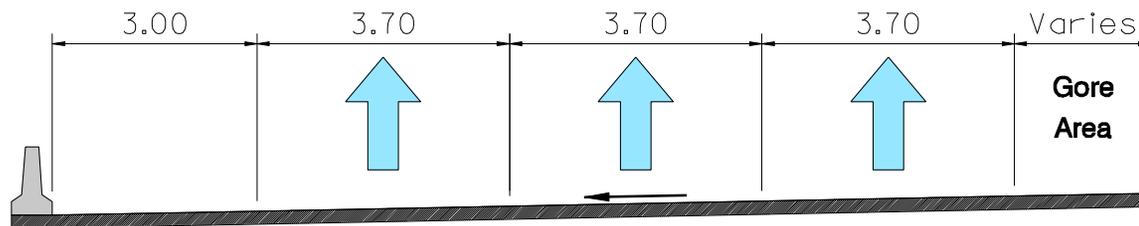


Ultimate

WB Mainline Over CPR Looking West

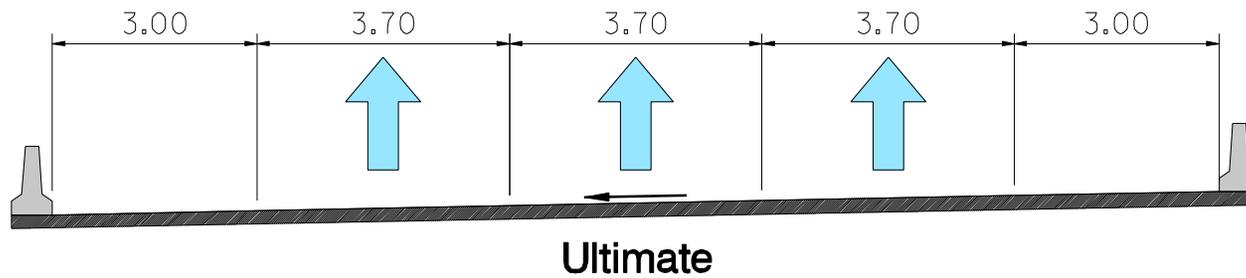
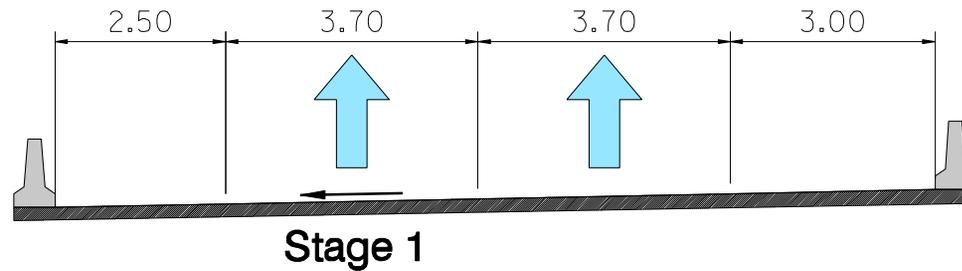


Stage 1



Ultimate

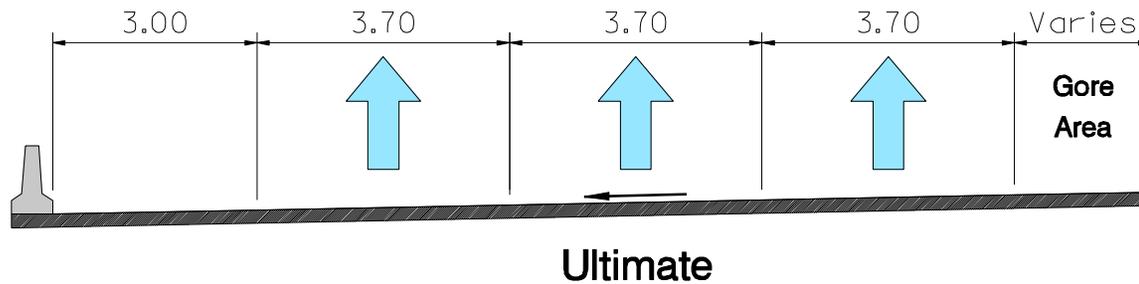
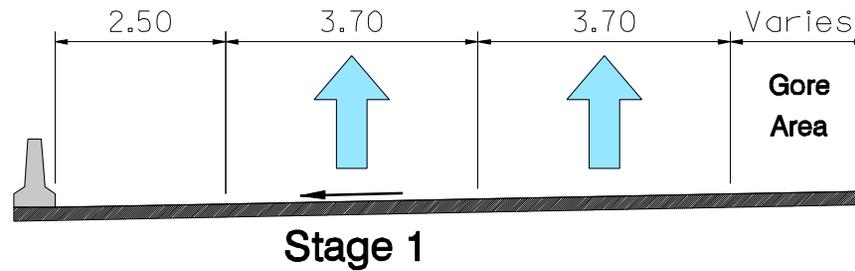
WB Mainline Over Calgary Trail and Gateway Boulevard Looking West



2004 March 04

Bridge Cross-Section 6 of 23

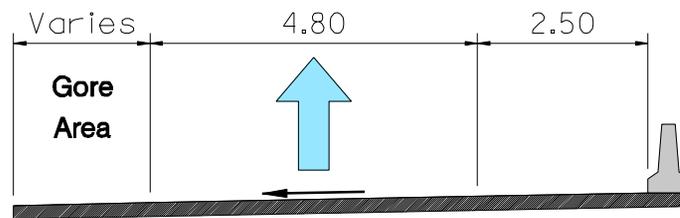
WB Mainline Over SB-EB Directional Ramp Looking West



2004 March 04

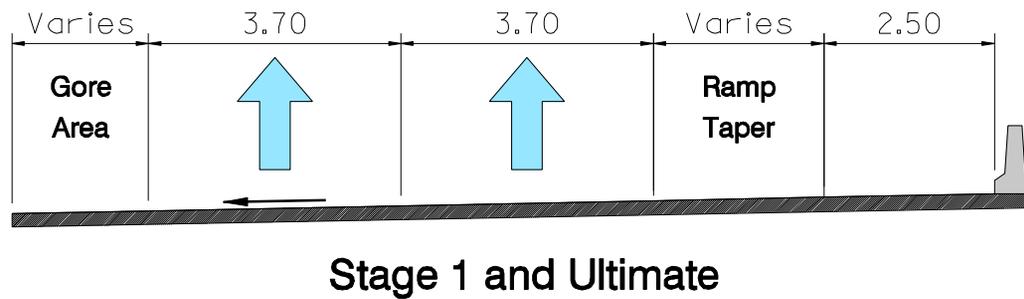
Bridge Cross-Section 7 of 23

WB Ramp Over SB-EB Directional Ramp to CD road Looking West



Stage 1 and Ultimate

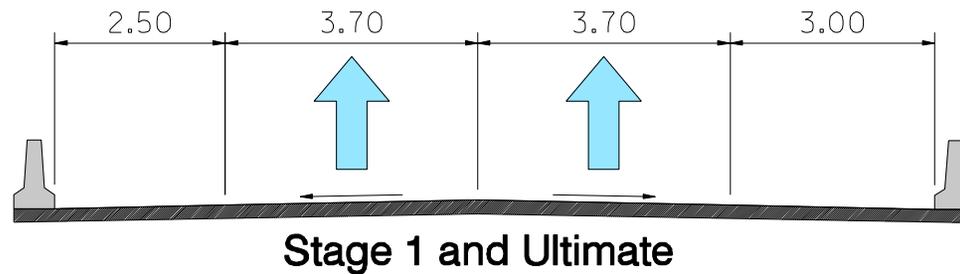
WB-SB Connector Over CPR Looking West



2004 March 04

Bridge Cross-Section 9 of 23

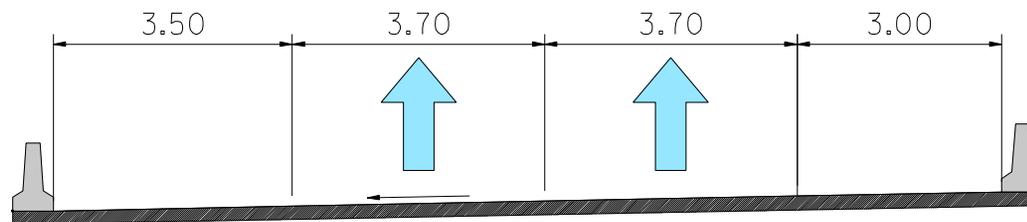
WB-SB Connector Over Calgary Trail and Gateway Boulevard Looking West



2004 March 04

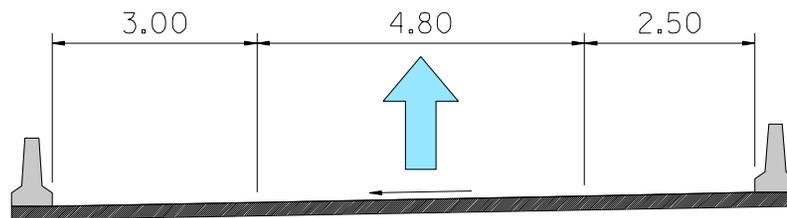
Bridge Cross-Section 10 of 23

WB-SB Connector Over AHD Looking South



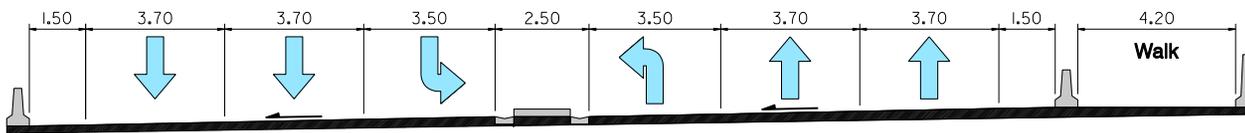
Stage 1 and Ultimate

SB-EB Directional Ramp Over Calgary Trail / Gateway Boulevard Looking East

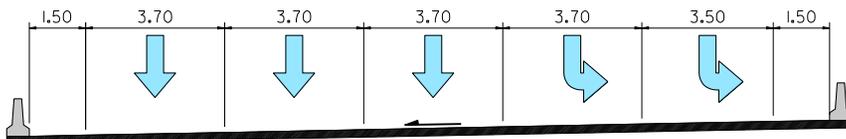


Stage 1 and Ultimate

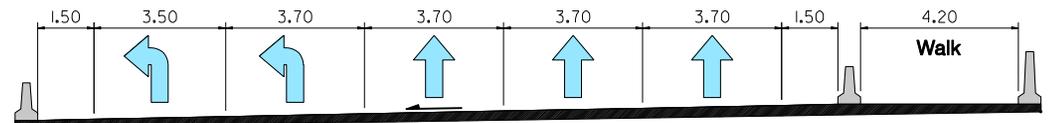
91 Street Looking North



Stage 1 structure

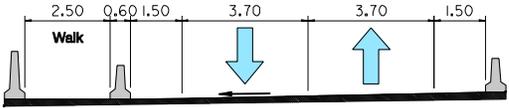


Ultimate Southbound structure

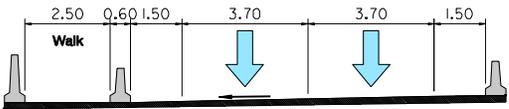


Ultimate Northbound structure

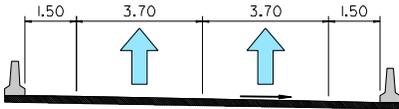
66 Street Flyover Looking North



Stage 1

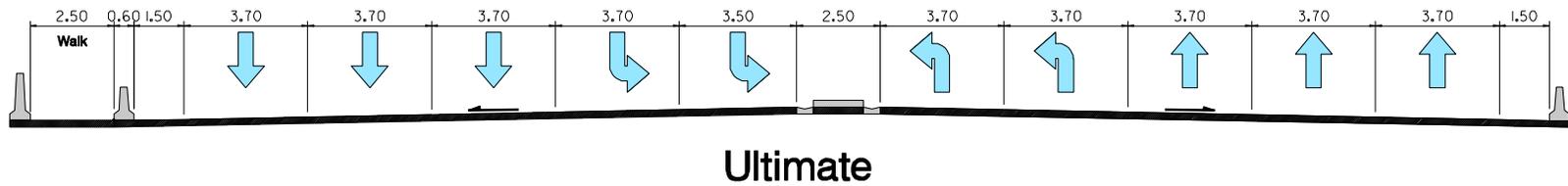
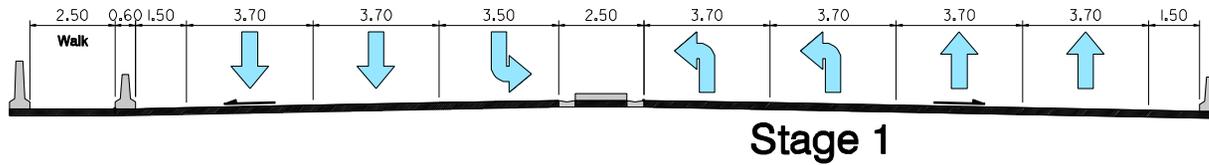


Ultimate Southbound



Ultimate Northbound

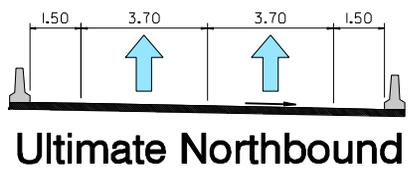
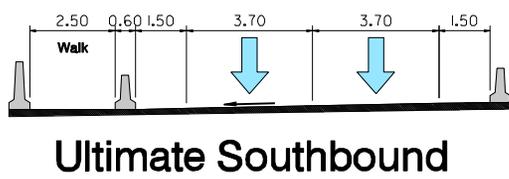
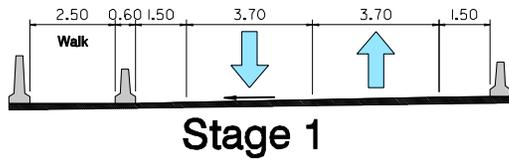
50 Street Looking North



2004 March 04

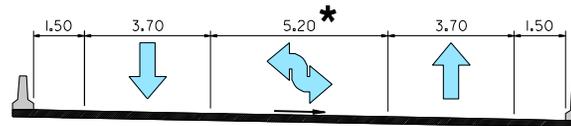
Bridge Cross-Section 15 of 23

34 Street Flyover Looking North

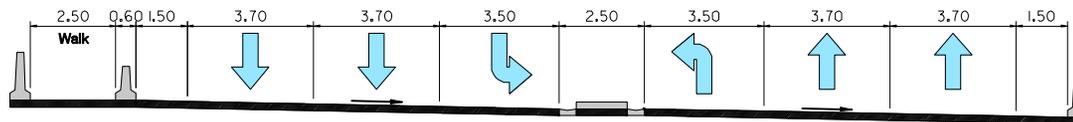


17 Street Looking North

* Incorporate a 1.50m wide raised concrete island



Stage 1 (Option A)

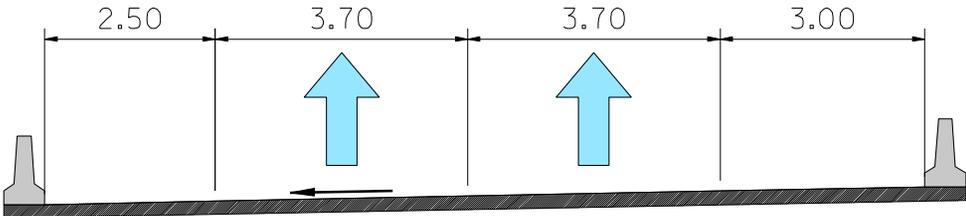


Stage 1 (Option B) and Ultimate

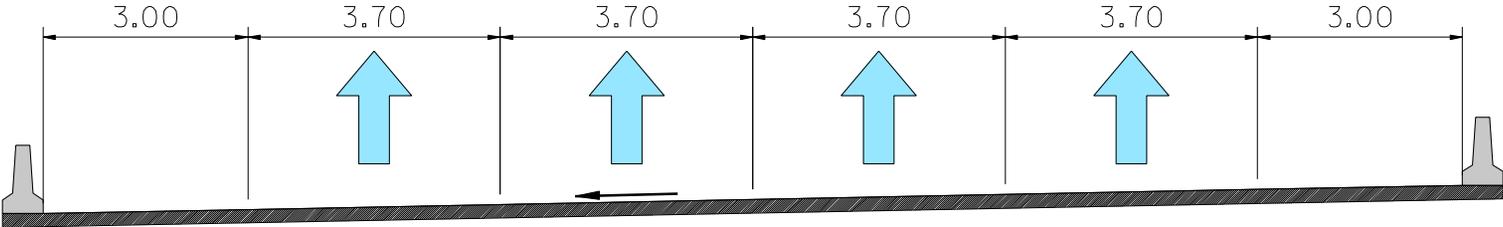
The contractor shall provide Ultimate (Stage 1 Option B) bridge configuration at the earlier of the following:

- 1- City of Edmonton's expansion of 17 Street to four lanes
- 2- the year 2032

AHD EB to Hwy 216 NB Over CN/Hwy 216 SB Looking East

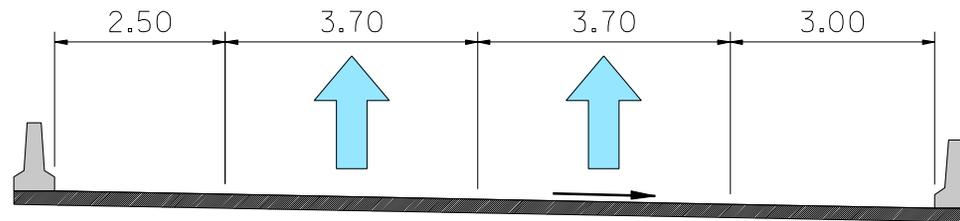


Stage 1

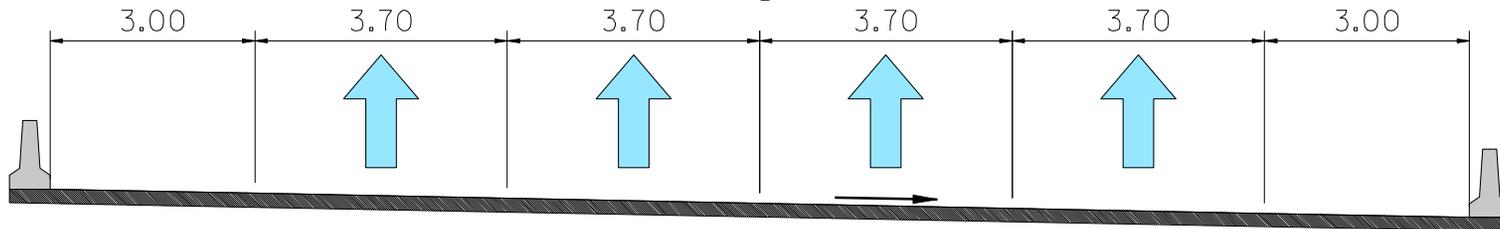


Ultimate

Hwy 216 To AHD WB Over CN/Hwy 216 SB Looking West



Stage 1

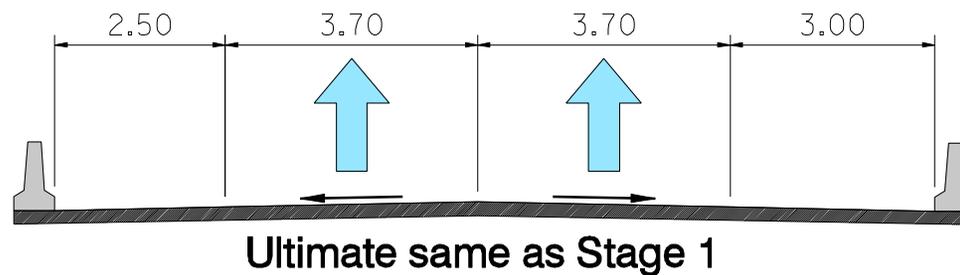


Ultimate

2004 March 04

Bridge Cross-Section 19 of 23

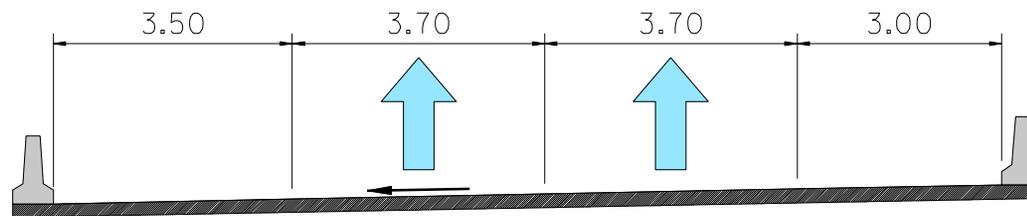
Hwy 14 WB Connector Over CN/Hwy 216 SB Looking West



2004 March 04

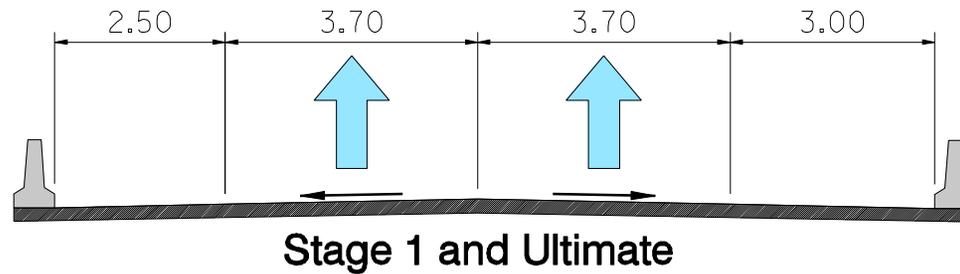
Bridge Cross-Section 20 of 23

Hwy 14 WB Connector Over AHD Mainline Looking West



Stage 1 and Ultimate

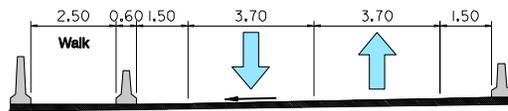
AHD EB Connector Over CN/Hwy 216 SB Looking East



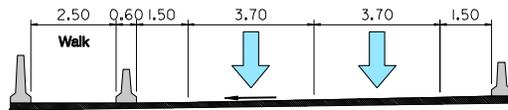
2004 March 04

Bridge Cross-Section 22 of 23

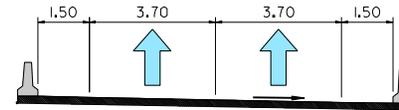
34 Ave Over Hwy 14 Flyover Looking East



Stage 1



Ultimate Westbound



Ultimate Eastbound