

SYMBOL LEGEND

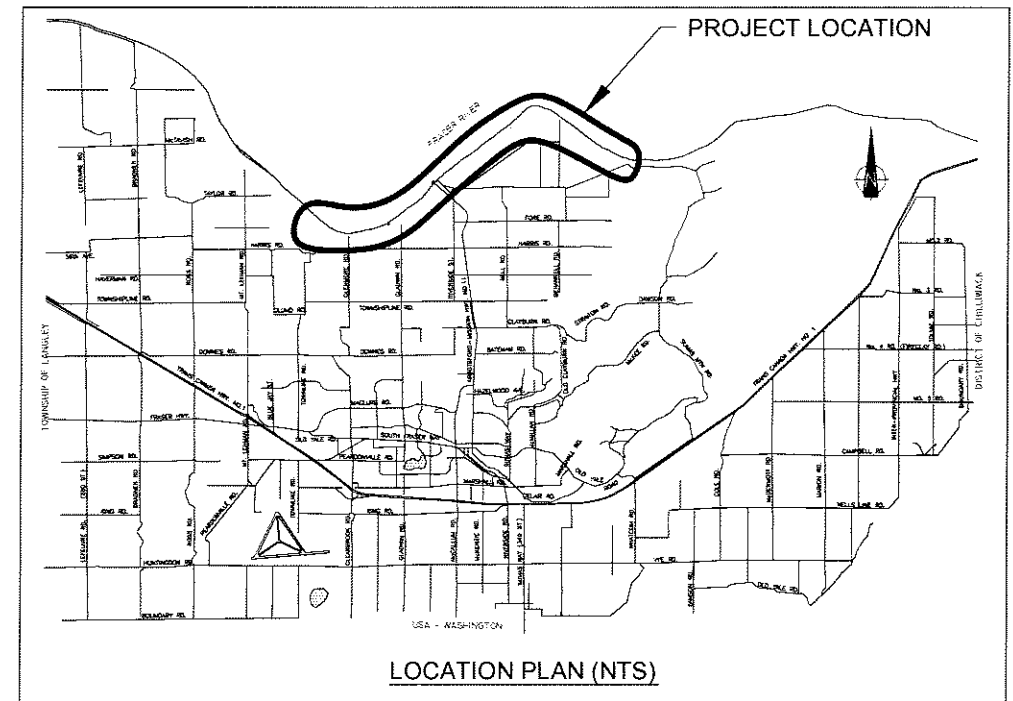
LINEWEIGHTS (EXCEPT AS NOTED)	EXISTING 0.130	PROPOSED 0.400	LINEWEIGHTS (EXCEPT AS NOTED)
BARRIER			BARRIER
BUILDING			BUILDING
BUS STOP			BUS STOP
CULVERT			CULVERT
CONCRETE HATCHING			CONCRETE HATCHING
CATCH BASIN			CATCH BASIN
DRAIN CLEANOUT			DRAIN CLEANOUT
DRAINAGE MANHOLE			DRAINAGE MANHOLE
DRAIN WELL			DRAIN WELL
GAS VALVE			GAS VALVE
GRAVEL HATCHING			GRAVEL HATCHING
ORNAMENTAL LIGHT			ORNAMENTAL LIGHT
HYDRO GUY WIRE			HYDRO GUY WIRE
HYDRO JUNCTION BOX			HYDRO JUNCTION BOX
HYDRO MANHOLE			HYDRO MANHOLE
HYDRO POLE			HYDRO POLE
HYDRO POLE WITH LIGHT			HYDRO POLE WITH LIGHT
IRON PIN			IRON PIN
LAMP STANDARD			LAMP STANDARD
KIOSK			KIOSK
MAILBOX			MAILBOX
PARK BENCH			PARK BENCH
SANITARY CLEANOUT			SANITARY CLEANOUT
SANITARY MANHOLE			SANITARY MANHOLE
SPOT ELEV.			SPOT ELEV.
STAIRS			STAIRS
TEST HOLE			TEST HOLE
TRAFFIC SIGN			TRAFFIC SIGN
SURVEY HUB			SURVEY HUB
SURVEY MONUMENT			SURVEY MONUMENT
SURVEY LEAD PLUG			SURVEY LEAD PLUG
TEL GUY WIRE			TEL GUY WIRE
TEL MANHOLE			TEL MANHOLE
TEL POLE			TEL POLE
TRAFFIC SIGNAL POLE			TRAFFIC SIGNAL POLE
TRAFFIC SIGNAL POST			TRAFFIC SIGNAL POST
CONIFEROUS TREE			CONIFEROUS TREE
DECIDUIOUS TREE			DECIDUIOUS TREE
GARDEN			GARDEN
HEDGE			HEDGE
LAWN			LAWN
SHRUB			SHRUB
FIRE HYDRANT			FIRE HYDRANT
WATER AIR RELEASE VALVE			WATER AIR RELEASE VALVE
WATER BLOWOFF			WATER BLOWOFF
WATER METER BOX			WATER METER BOX
WATER MANHOLE			WATER MANHOLE
WATER STANDPIPE			WATER STANDPIPE
WATER VALVE			WATER VALVE
WHEEL CHAIR DROP			WHEEL CHAIR DROP
WALL			WALL

LINE TYPE LEGEND

LINEWEIGHTS (EXCEPT AS NOTED)	EXISTING 0.130	PROPOSED 0.500
BARRIER		
BREAK LINE		
TRAFFIC CONDUIT		
CREEK BOTTOM		
CREEK CENTERLINE		
CREEK TOP		
CROWN OF ROAD		
DITCH BOTTOM		
DITCH CENTERLINE		
DITCH TOP		
DRIVEWAY		
EASEMENT/R.O.W.		
FENCE CHAINLINK		
FENCE WOOD		
GAS MAIN		
GUTTERLINE		
HYDRO DUCT		
LANE MARKING		
STREET LIGHTING		
PAVEMENT EDGE		
PROPERTY LINE		
RAILWAY TRACKS		
ROAD R/W		
SANITARY MAIN		
SIDEWALK EDGE		
SLOPE BOTTOM		
SLOPE TOP		
STORM MAIN		
TEL DUCT		
WATER MAIN		

TEXT DETAILS
(PAPERSPACE LAYOUT SIZE)

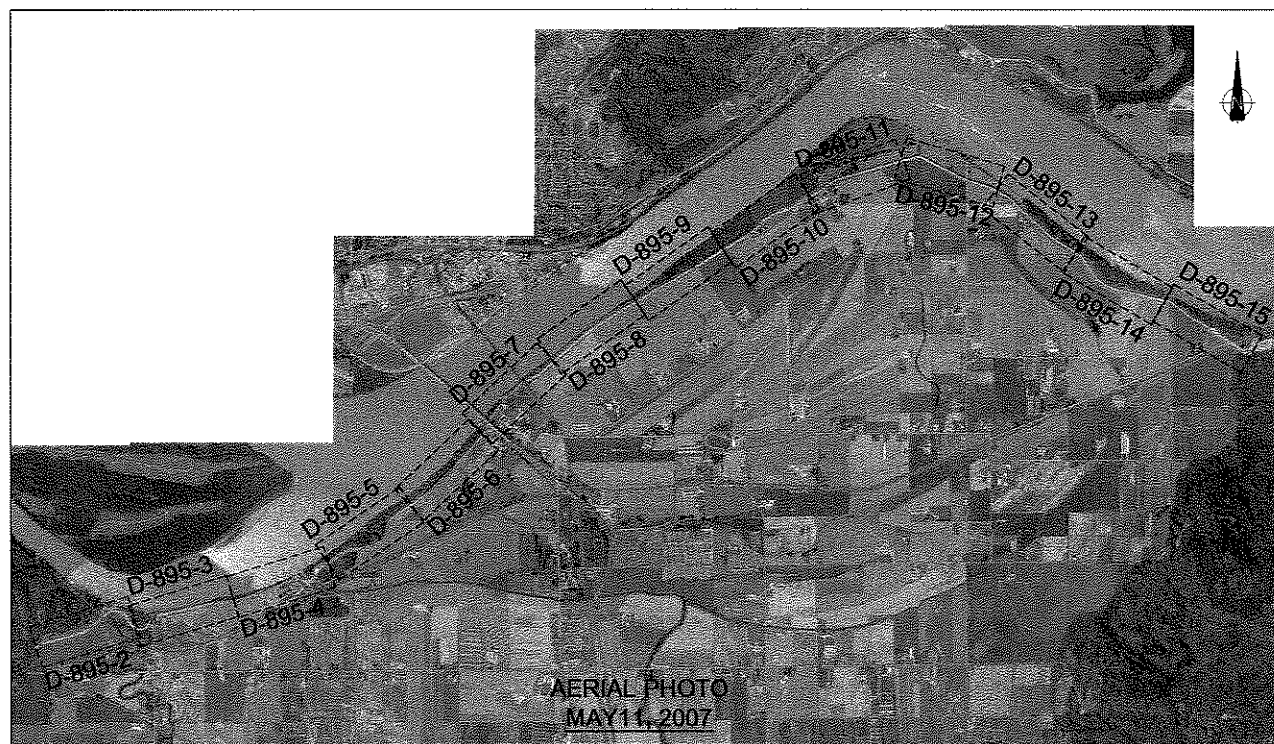
HEIGHT (mm)	EXISTING LINEWEIGHT	PROPOSED LINEWEIGHT
SMALL 1.8	0.150	0.300
MEDIUM 2.5	0.150	0.400
LARGE 5.0	0.600	0.600



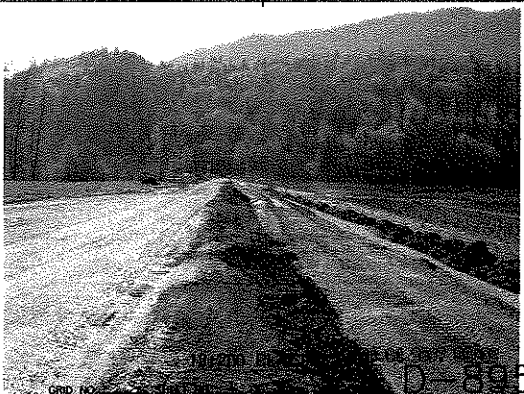
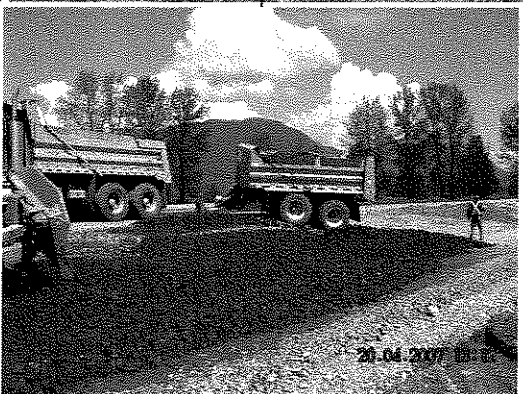
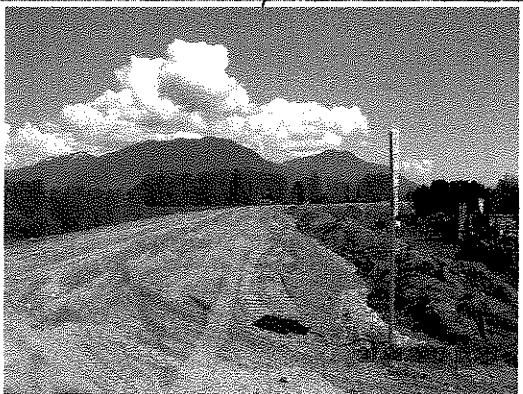
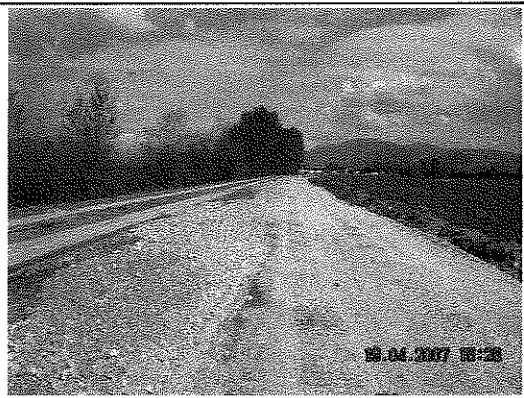
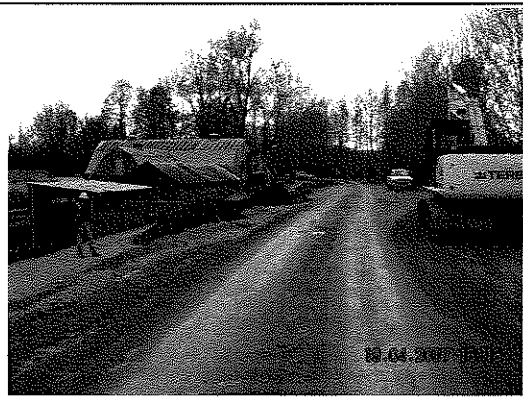
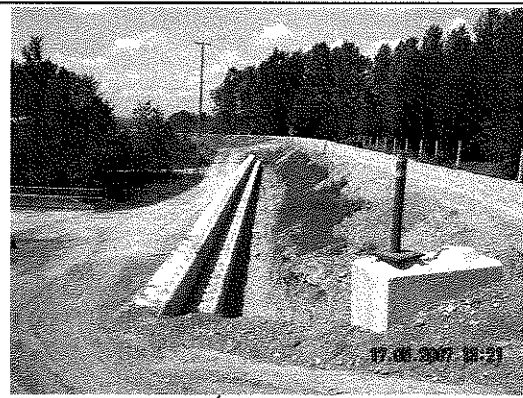
DRAWING INDEX

SHEET NO.	DRAWING NO.	DRAWING DISCIPLINE	DRAWING TITLE
1	D-895	DYKE	KEYPLAN
2	D-895	DYKE	PLAN & PROFILE
3	D-895	DYKE	PLAN & PROFILE
4	D-895	DYKE	PLAN & PROFILE
5	D-895	DYKE	PLAN & PROFILE
6	D-895	DYKE	PLAN & PROFILE
4	D-895	DYKE	PLAN & PROFILE
8	D-895	DYKE	PLAN & PROFILE
9	D-895	DYKE	PLAN & PROFILE
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14	D-895	DYKE	PLAN & PROFILE
15	D-895	DYKE	PLAN & PROFILE
16	D-895	DYKE	PLAN & PROFILE
17	D-895	DYKE	CROSS SECTION
18	D-895	DYKE	CROSS SECTION
19	D-895	DYKE	CROSS SECTION
20	D-895	DYKE	CROSS SECTION

KEY PLAN (NTS)



ABBOTSFORD
MATSQUI DYKE
2007 UPGRADE



AERIAL PHOTO FLOWN:
MAY 11, 2007

LOCATION FOR GAS, ELECTRICAL, TEL. & CABLE
UTILITIES TO BE VERIFIED

NO.	DATE	BY	REVISIONS	TECH. ENG.
1	JULY 2007	MR	AS-BUILT	JL

GOLDER ASSOCIATES
LTD.

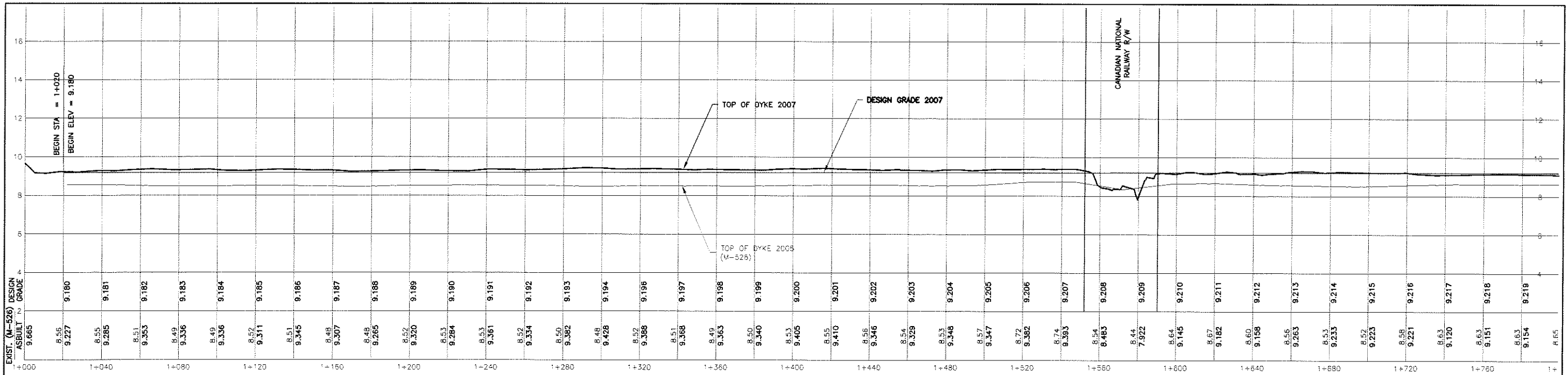
CITY OF ABBOTSFORD

DATE	2007 04 02	SURVEY JOB NO.	07-059
DRAWN	MR	SURVEYCREW	RB/RG
DESIGN	JL	SCALE	1 : 15000
WORK ORDER NO.	403437	VERT.	



MATSQUI DYKE
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE - KEYPLAN

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MAY 11, 2007

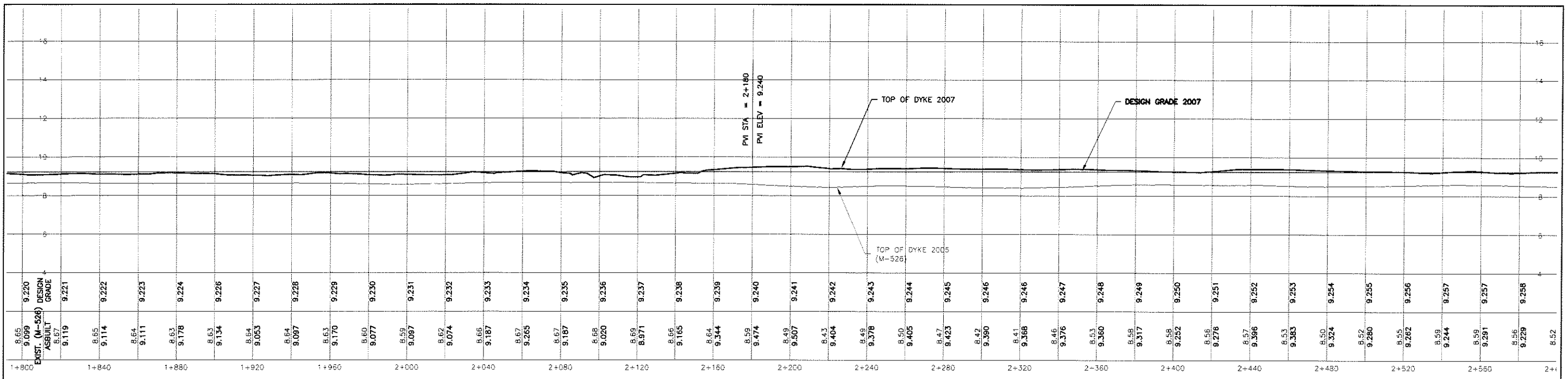
LOCATION FOR GAS, ELECTRICAL, TEL. & CABLE
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NO.	DATE	BY	REVISIONS
1.	JULY 2007	MR	AS-BUILT

GOLDER ASSOCIATES LTD.	CITY OF ABBOTSFORD	DATE 2007 04 02	SURVEY JOB NO. 07-059
		DRAWN MR	SURVEYCREW RB/RG
		DESIGN JL	SCALE 1 : 1000
		TECH. ENG. JL	VERT. 1 : 100
			WORK ORDER NO. 403437



MATSQUI DYKE
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE



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MAY 11, 2007

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LTD. CITY OF ABBOTSFORD

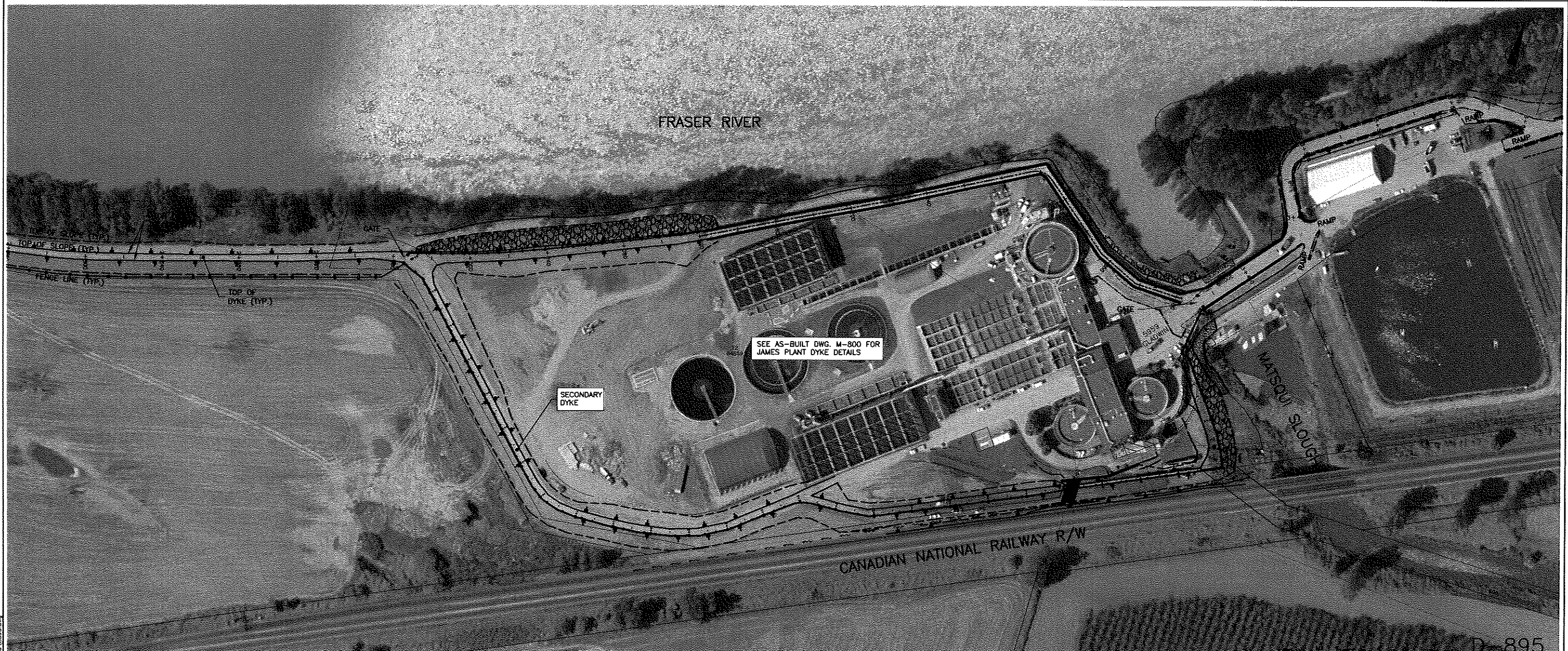
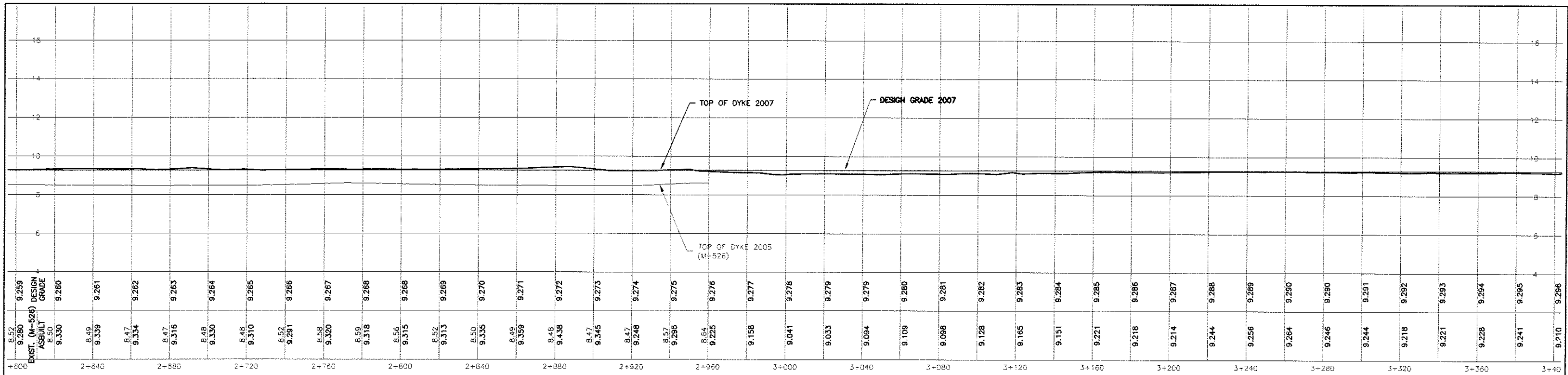
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SCALE
HOR. 1 : 1000
VERT. 1 : 100



MATSQUI DYKE
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE

D-895



AERIAL PHOTO FLOWN:
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LOCATION FOR GAS, ELECTRICAL, TEL. & CABLE
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LTD. CITY OF ABBOTSFORD

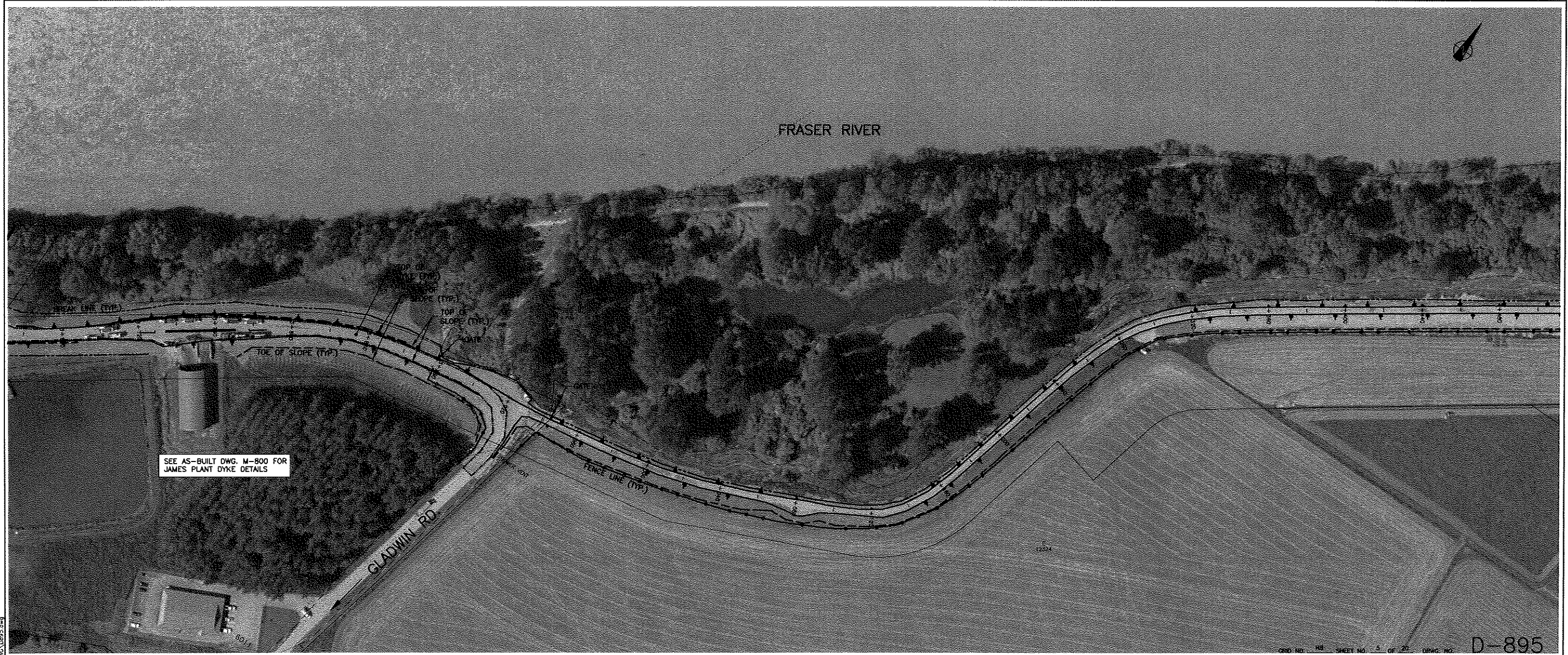
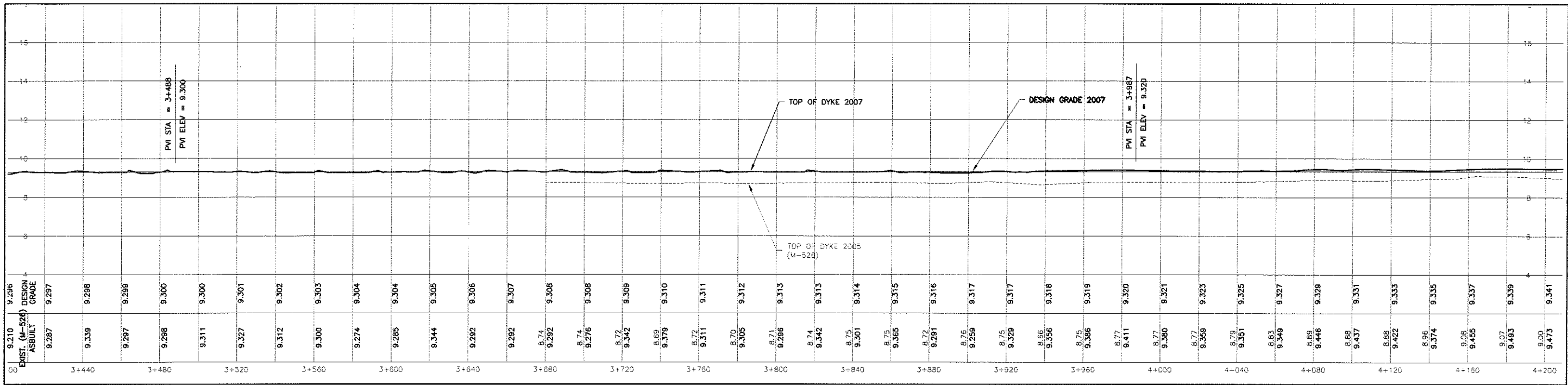
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SCALE
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MATSQUI DYKE
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE

D-895



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CITY OF ABBOTSFORD

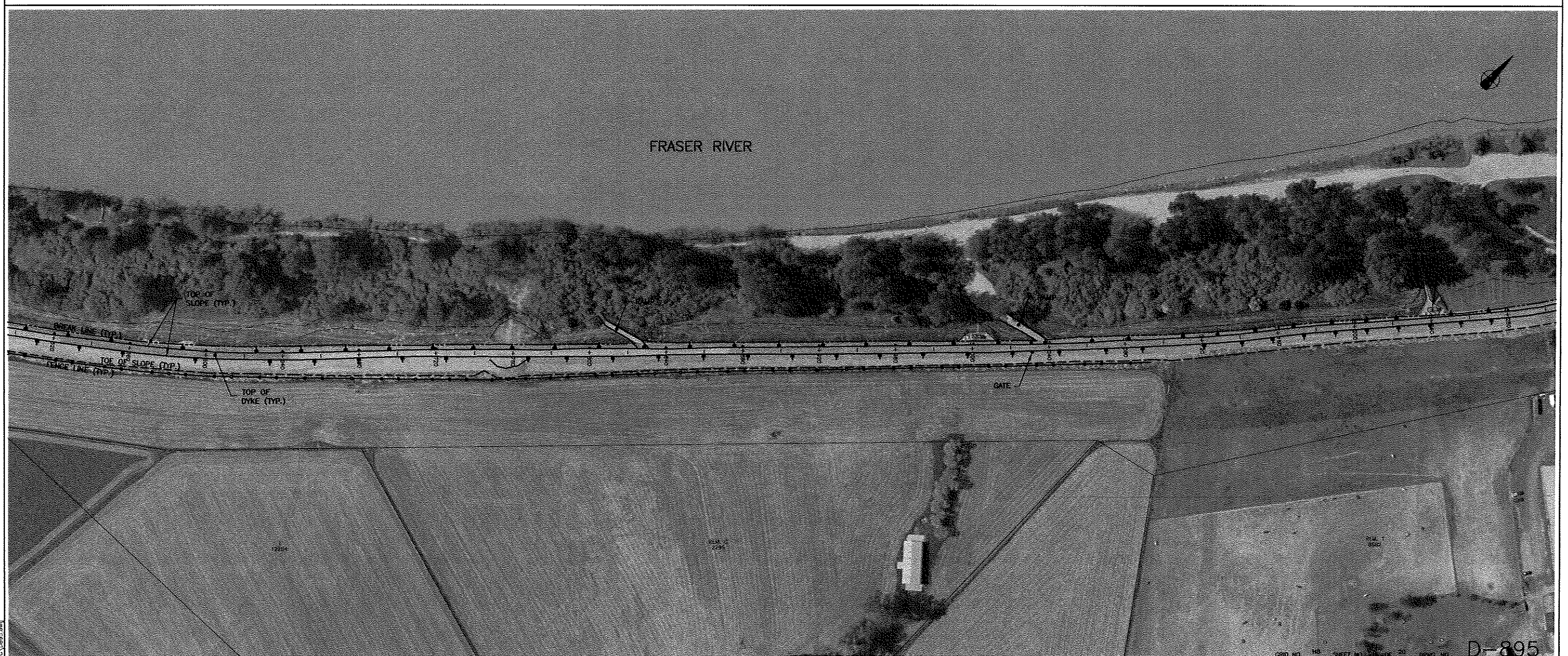
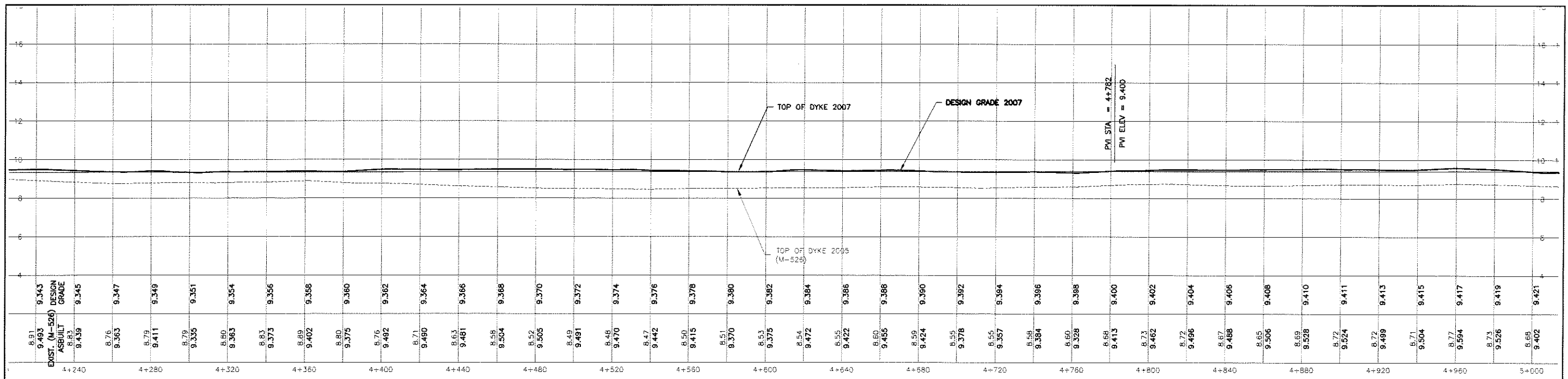
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DRAWN MR
DESIGN JL
WORK ORDER NO. 403437

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SCALE
HOR. 1 : 1000
VERT. 1 : 100



GRD. NO. SHEET NO. 5 OF 20 DWG. NO. D-895

MATSQUI DYKE
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE



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MAY 11, 2007

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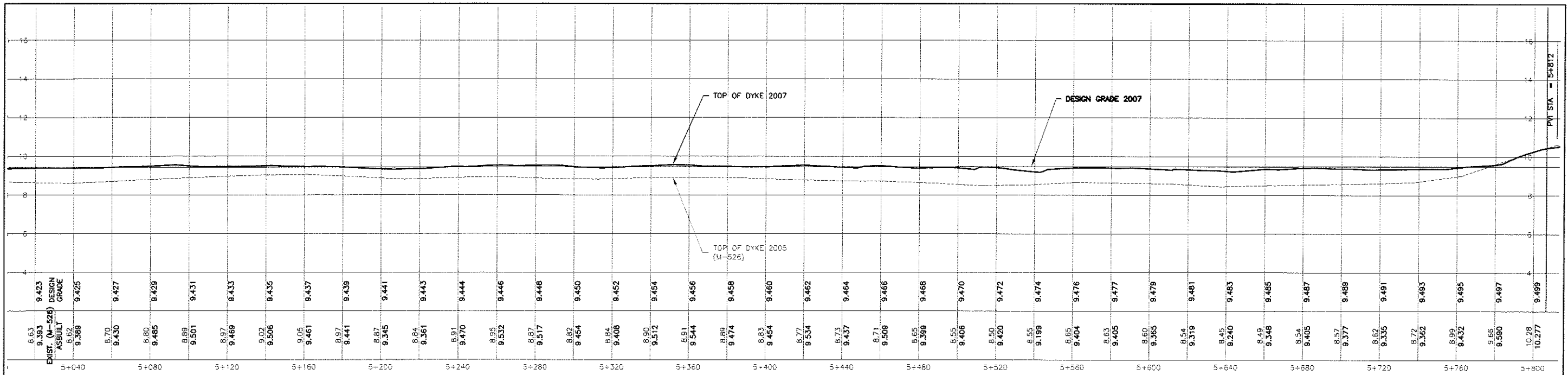
GOLDER ASSOCIATES LTD. CITY OF ABBOTSFORD

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DRAWN	MR	SURVEYCREW	RB/RG
DESIGN	JL	SCALE	
WORK ORDER NO.	403437	HOR.	1 : 1000
		VERT.	1 : 100



MATSQUI DYKE
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE

D-895



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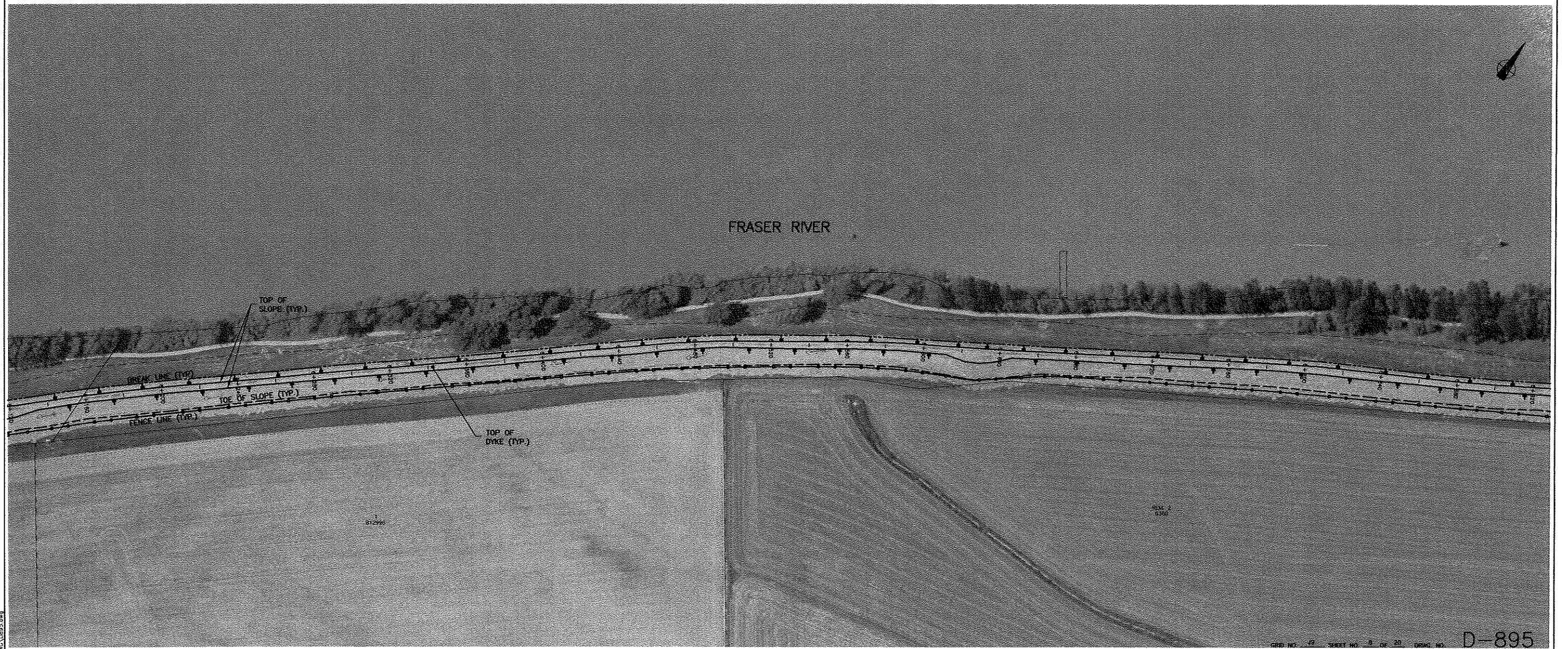
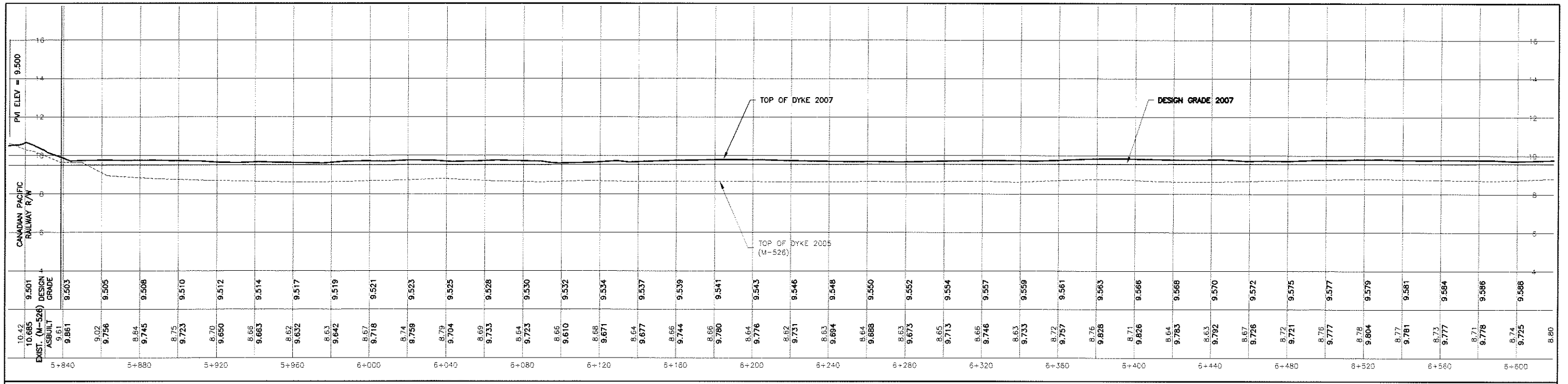
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GOLDER ASSOCIATES LTD.	CITY OF ABBOTSFORD	DATE 2007 04 02	SURVEY JOB NO. 07-059
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		DESIGN JL	SCALE 1 : 1000
		WORK ORDER NO. 403437	VERT. 1 : 100



MATSQUI DYKE
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE



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MAY 11, 2007

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CITY OF ABBOTSFORD

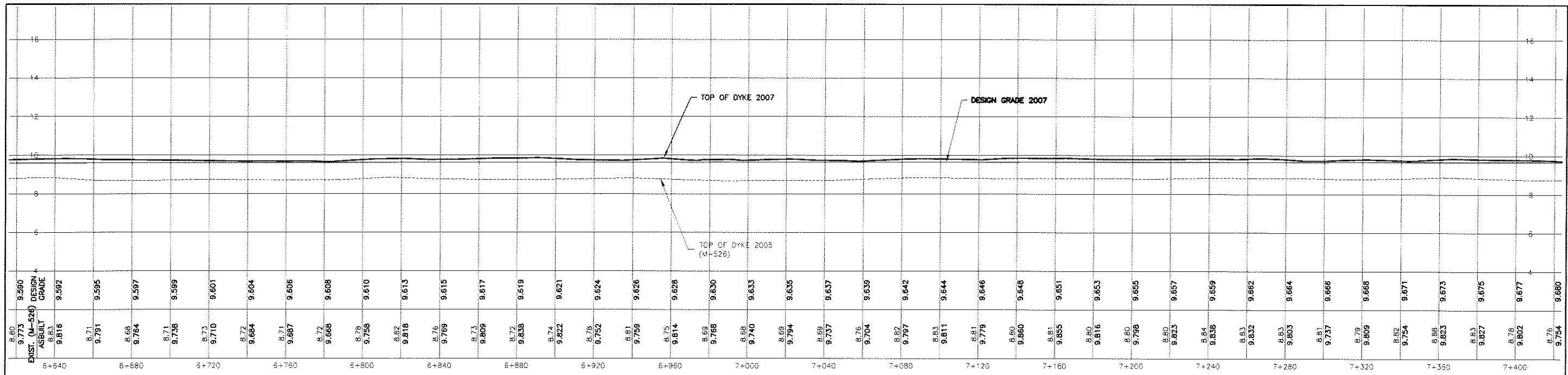
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WORK ORDER NO. 403437

SURVEY JOB NO. 07-059
SURVEYCREW RB/RG
SCALE
HOR. 1 : 1000
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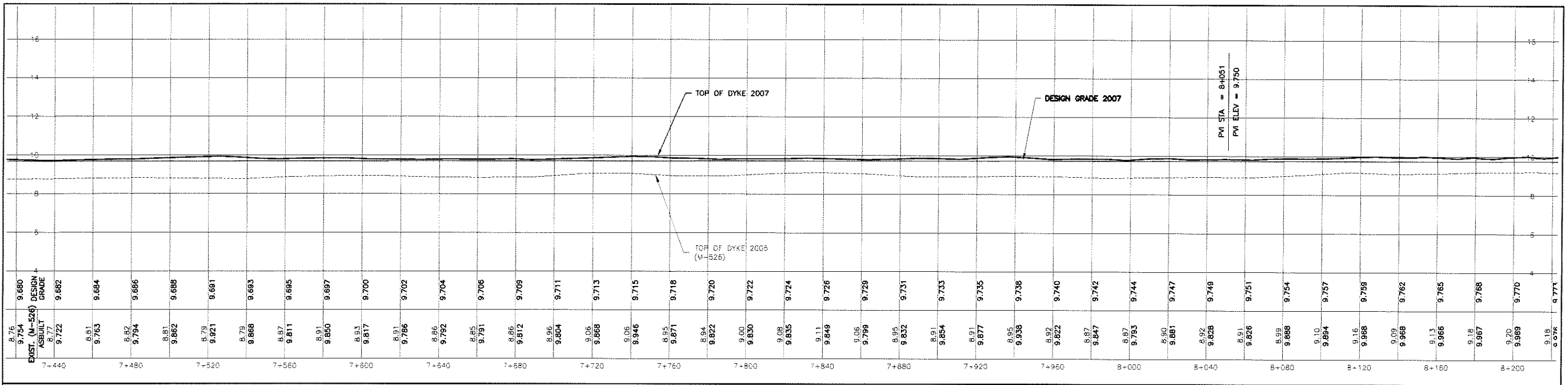
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE

D-895

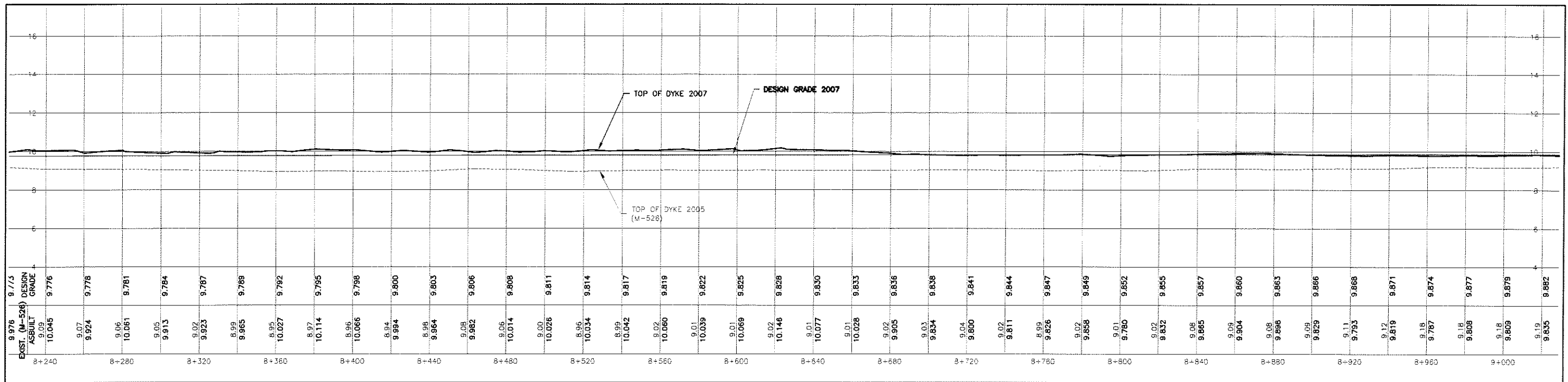


AERIAL PHOTO FLOWN: MAY 11, 2007 LOCATION FOR GAS, ELECTRICAL, TEL, & CABLE UTILITIES TO BE VERIFIED	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REVISIONS</th> </tr> <tr> <td>1.</td> <td>JULY 2007</td> <td>MR AS-BUILT</td> <td></td> </tr> </table>	NO.	DATE	BY	REVISIONS	1.	JULY 2007	MR AS-BUILT		GOLDER ASSOCIATES LTD. CITY OF ABBOTSFORD	DATE 2007 04 02 DRAWN MR DESIGN JL WORK ORDER NO. 403437	SURVEY JOB NO. 07-059 SURVEYCREW RB/RG SCALE HOR. 1 : 1000 VERT. 1 : 100	ABBOTSFORD	MATSQUI DYKE SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT 2007 DYKE UPGRADE
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D-895



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LOCATION FOR GAS, ELECTRICAL, TEL, & CABLE UTILITIES TO BE VERIFIED						DRAWN MR		SURVEYCREW RB/RG	
						DESIGN JL		SCALE	
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								ABBOTSFORD	
								MATSQUI DYKE SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT 2007 DYKE UPGRADE	



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MAY 11, 2007

LOCATION FOR GAS, ELECTRICAL, TEL, & CABLE
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1.	JULY 2007	MR AS-BUILT		JL

GOLDER ASSOCIATES LTD.
CITY OF ABBOTSFORD

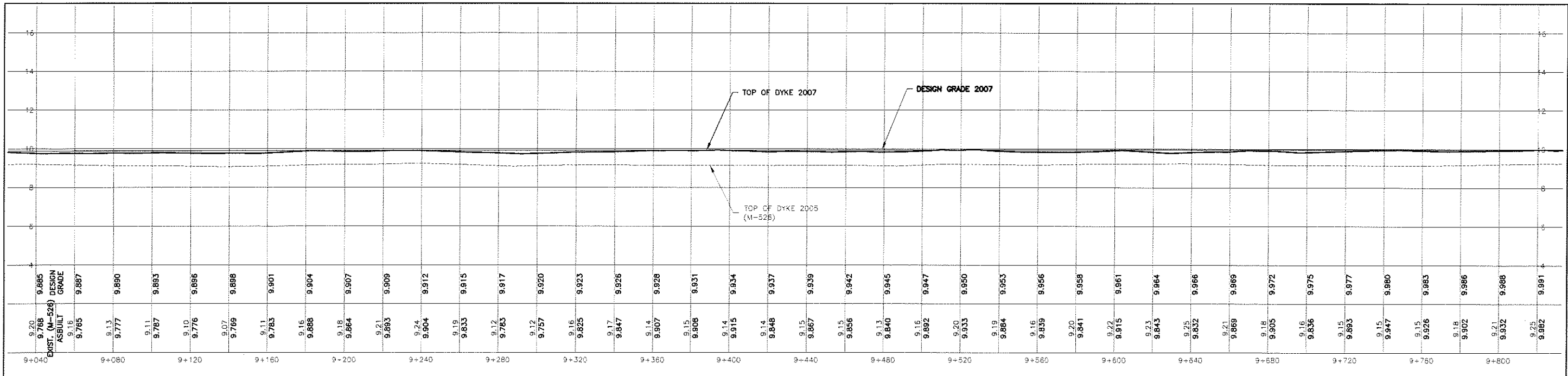
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HCR. 1 : 1000
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MATSQUI DYKE
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE

D-895



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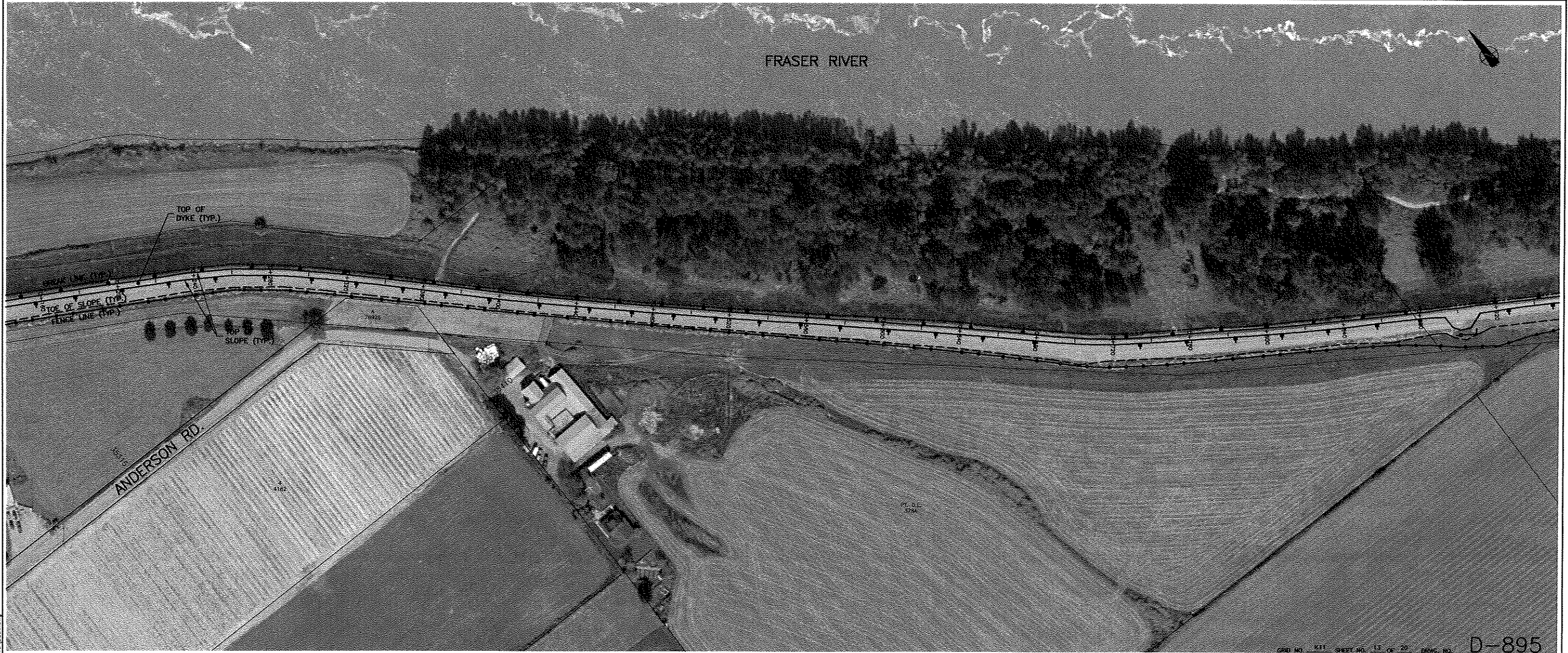
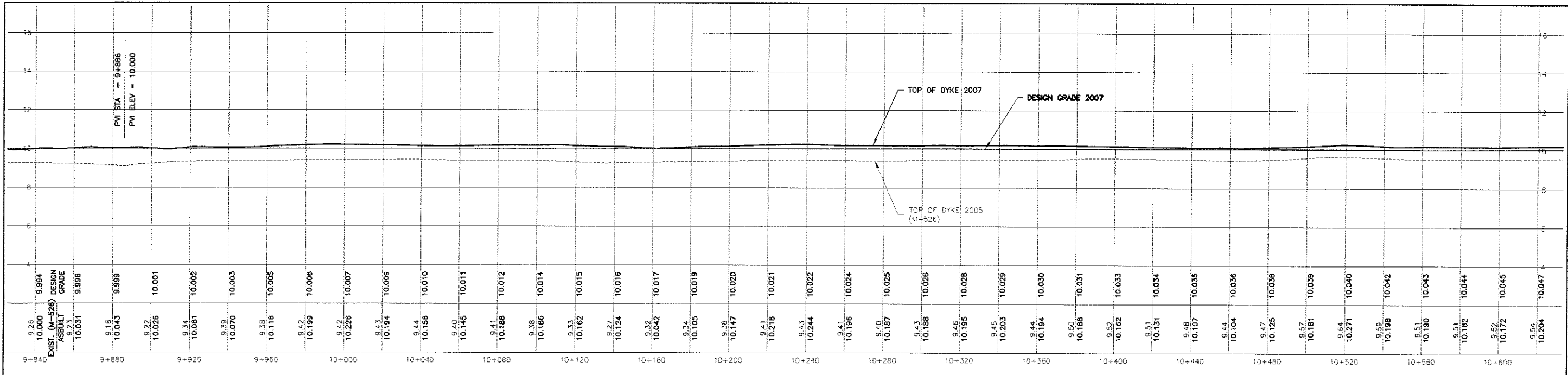
GOLDER ASSOCIATES
LTD.
CITY OF ABBOTSFORD

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CRD. NO. K10 SHEET NO. 1 OF 20 DRAW. NO. D-895
MATSQUI DYKE
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE

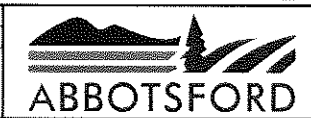


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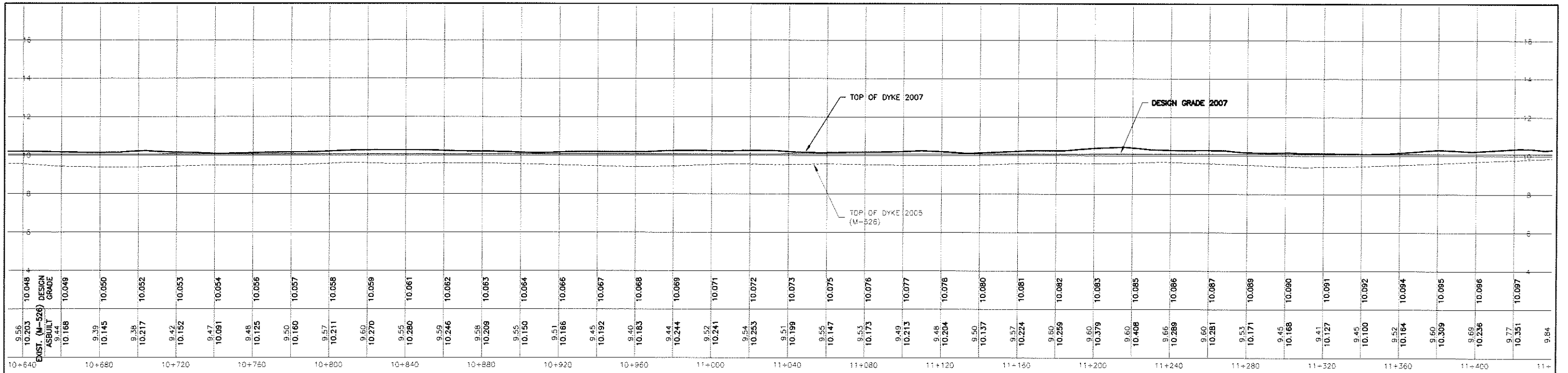
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1	JULY 2007	MR	AS-BUILT	JL

GOLDER ASSOCIATES LTD.	CITY OF ABBOTSFORD	DATE 2007 04 02	SURVEY JOB NO. 07-039
		DRAWN MR	SURVEYCREW RB/RG
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		WORK ORDER NO. 403437	HOR. 1 : 1000
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MATSQUI DYKE
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE

D-895



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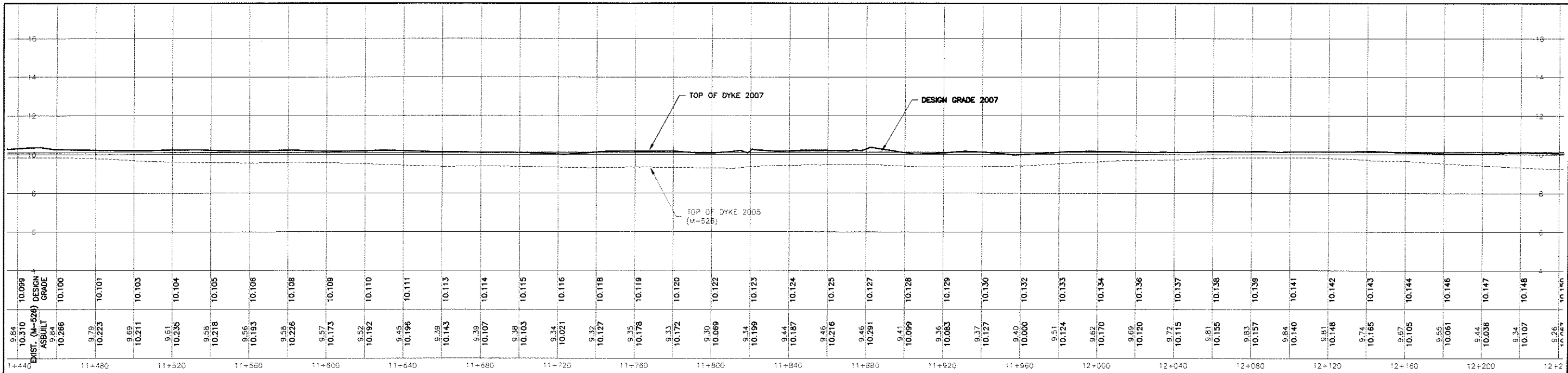
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GOLDER ASSOCIATES LTD.	CITY OF ABBOTSFORD	DATE 2007 04 02	SURVEY JOB NO. 07-059
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GRID NO. K11 SHEET NO. 14 OF 20 DRAWING NO. D-895

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SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
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CITY OF ABBOTSFORD

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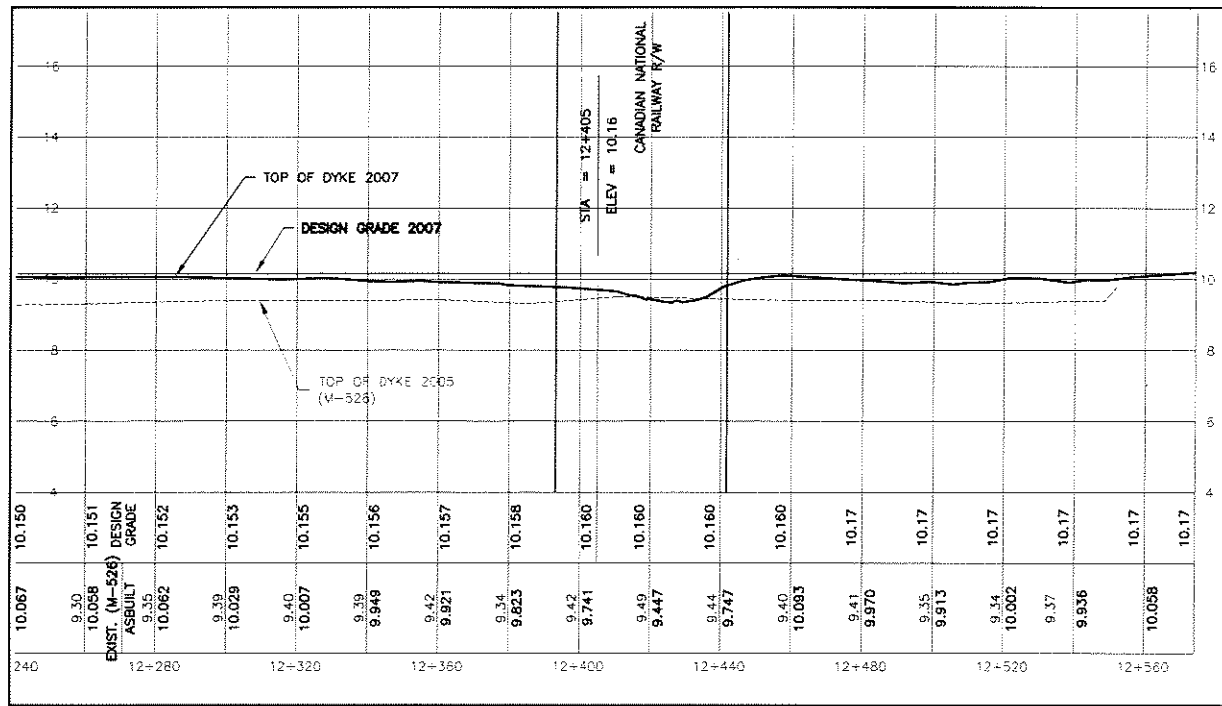
SCALE

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VERT. 1 : 100



MATSQUI DYKE
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE



NOTES:
METHOD OF SURVEY ASBUILT INFORMATION:
CROSS SECTION EVERY 25m, INTERPOLATED
AND PLOTTED ON PROFILE IN 20m INTERVALS.

TECHNICAL MEMORANDUM

Golder Associates Ltd.
302 - 2790 Columbia Road
Abbotsford, B.C. Canada V2T 4S8
Telephone: 604-853-2794
Fax: 604-856-8726

TO: Phil Blaker, P.Eng. DATE: April 11, 2007
City of Abbotsford
FROM: Brian Mylleville, P.Eng. JOB NO: 07-1450-0039
Email: bmylleville@golder.com
RE: PROPOSED DESIGN AND CONSTRUCTION METHODOLOGY
DIKE UPGRADES FOR 2007 FRESHET
ABBOTSFORD, BC

This Technical Memorandum outlines the proposed design and construction methodology for the upgrades to the existing Abbotsford dikes in anticipation of the 2007 Freshet on the Fraser River.

1.0 DESIGN CONSIDERATIONS

It is understood that the existing dikes need to be upgraded (and raised) to meet the new flood elevation in anticipation of the 2007 Freshet on the Fraser River. It is also understood that the existing dikes were originally constructed with a low permeability core. A review of survey information contained in the City of Abbotsford's Drawing No. M526 (sheets 1 to 12) indicates that the dike crest elevation will need to be raised between about 300 mm and 1200 mm. A visual inspection of the existing dikes was carried out on April 4, 2007.

Due to the urgency of this project and the compressed timeline in which it must be completed, no provision has been made for any site-specific geotechnical investigations including test holes and/or detailed analysis unless field observations warrant more detailed assessment in specific locations.

Given the compressed timeline available within which to complete the dike upgrades, it is proposed to implement the dike upgrades (widening the base and raising the crest elevation) on the landside of the existing dikes. This will minimize impacts to existing vegetated slopes that reducing the need for further armoring and protection of newly placed fill slopes (if the dike upgrades were carried out on the water side) and minimize the potential for impacts to the adjacent sensitive riparian areas.

A boat will be used to carry out a visual inspection of the existing shoreline in areas where the existing dikes are in proximity of the edge of the Fraser River to assess if any additional armour rock needs to be placed to protect vulnerable areas.

PHOTOS ACROSS NORTH AMERICA, SOUTH AMERICA, EUROPE, ASIA, AUSTRALASIA

Mr. Phil Blaker, P.Eng. April 11, 2007
City of Abbotsford - 2 - 07-1450-0039

The gradation specification for the proposed fill materials to be used in the dike upgrade is as follows:

Sieve Designation	Percent Passing
75 mm	100
50 mm	70 - 100
25 mm	50 - 100
4.75 mm	22 - 100
2.50 mm	10 - 85
6.075 mm	5 - 10

The gradation specification outlined above was modified from the Master Municipal Specification for Pit Run Gravel with an allowance for some additional fines. A fill material could be specified containing significantly more fines, however, compaction would be difficult to achieve in wet weather conditions which typically occur in early spring.

It is proposed to upgrade the existing dikes such that the crest width is maintained at 3.6 m and the side slopes are developed not steeper than 2.5 Horizontal to 1 Vertical on the land side of the dike where the widening upgrade will occur.

The attached Figure 1 illustrates the proposed dike upgrade concept. Floodwalls and/or similar Lock-Block retaining walls or reinforced fill structures may be required in areas where upgrades to the existing dikes or proposed new dikes will be in proximity of existing structures (e.g. JAMES Pollman Control Centres, other facilities and/or areas of limit space. Specific details for these floodwalls are in the process of being developed.

2.0 SITE PREPARATION

Site preparation will include the select removal of existing large cottonwood or other trees that could impact the existing dike structure should they be toppled and root balls pulled from the dike during freshet high water conditions. It is recommended that these large trees be close cut and the root ball left in place until after the flood waters have receded and then they can be removed and the surrounding areas reinstated with fill materials and revegetated.

Golder Associates

Mr. Phil Blaker, P.Eng. April 11, 2007
City of Abbotsford - 3 - 07-1450-0039

Site preparation will also include temporary removal (and reinstatement) of all fences, gates and the like.

The soil and topsoil cover will be removed along the land side slopes of the existing dike and stockpiled adjacent to the work area for reinstatement following the dike upgrade work.

3.0 CONSTRUCTION CONSIDERATIONS

Low height horizontal benches shall be cut into the existing side slopes to key the new fill widening into the existing fill side slopes. Excavation for the benches must not penetrate into the existing lower permeability core material.

The new dike fill materials shall be placed in loose lifts not exceeding 300 mm in thickness and compacted to at least 90 per cent of Modified Proctor maximum dry density (ASTM D1557). The thickness of the initial lift of fill placed near the toe of the side slope of the dike on the land side may need to be increased for construction reliability purposes. Periodic field density testing will be carried out by Golder Associates Ltd. to confirm that the density specification is achieved. The top riding surface of the existing dike shall be scarified to a depth of 150 mm prior to placement of the initial lift of fill on top of the existing dike crest.

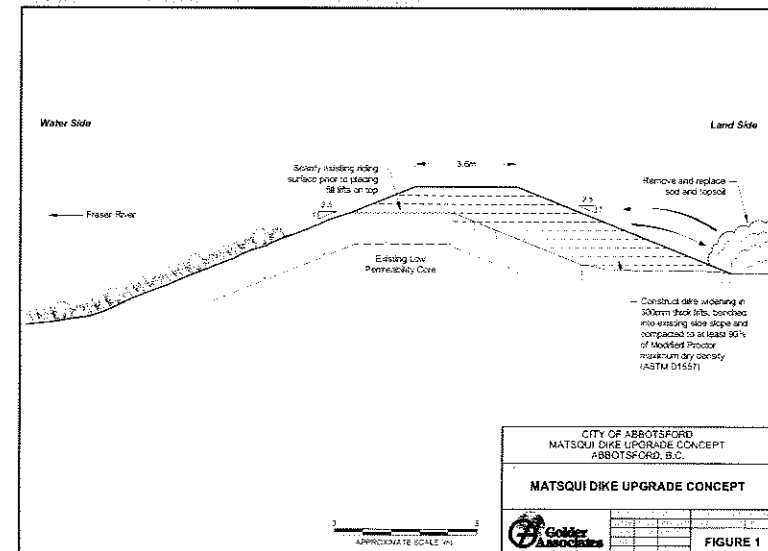
The side slopes of the new fill placed on the land side of the dike shall be developed not steeper than 2.5 Horizontal to 1 Vertical. The top of the dike shall be provided with a 2 per cent cross fall down toward the water side of the dike to prevent ponding of water on top of the dike crest.

The stockpiled soil and topsoil mixture shall be reinstated on the newly constructed side slopes along the land side of the dike and these slopes shall be revegetated with hydroseed or similar methods.

Armour rock will be placed in areas where visual inspections indicate that the existing river bank, in proximity of the existing dikes, have been significantly impacted by erosion.

Attachment
BLJM/SL/ik

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CITY OF ABBOTSFORD
MATSQUI DIKE UPGRADE CONCEPT
ABBOTSFORD, B.C.

MATSQUI DIKE UPGRADE CONCEPT

Golder Associates

FIGURE 1

LOCATION FOR GAS, ELECTRICAL, TEL. & CABLE UTILITIES TO BE VERIFIED

NO.	DATE	BY	REVISIONS	TECH. ENG.
1.	JULY 2007	MR	AS-BUILT	JL

GOLDER ASSOCIATES LTD.	CITY OF ABBOTSFORD
------------------------	--------------------

DATE	2007 04 02
DRAWN	MR
DESIGN	JL
WORK ORDER NO.	403437

SURVEY JOB NO.	07-059
SURVEYCREW	RB/RG
SCALE	
HOR.	1 : 1000
VERT.	1 : 100

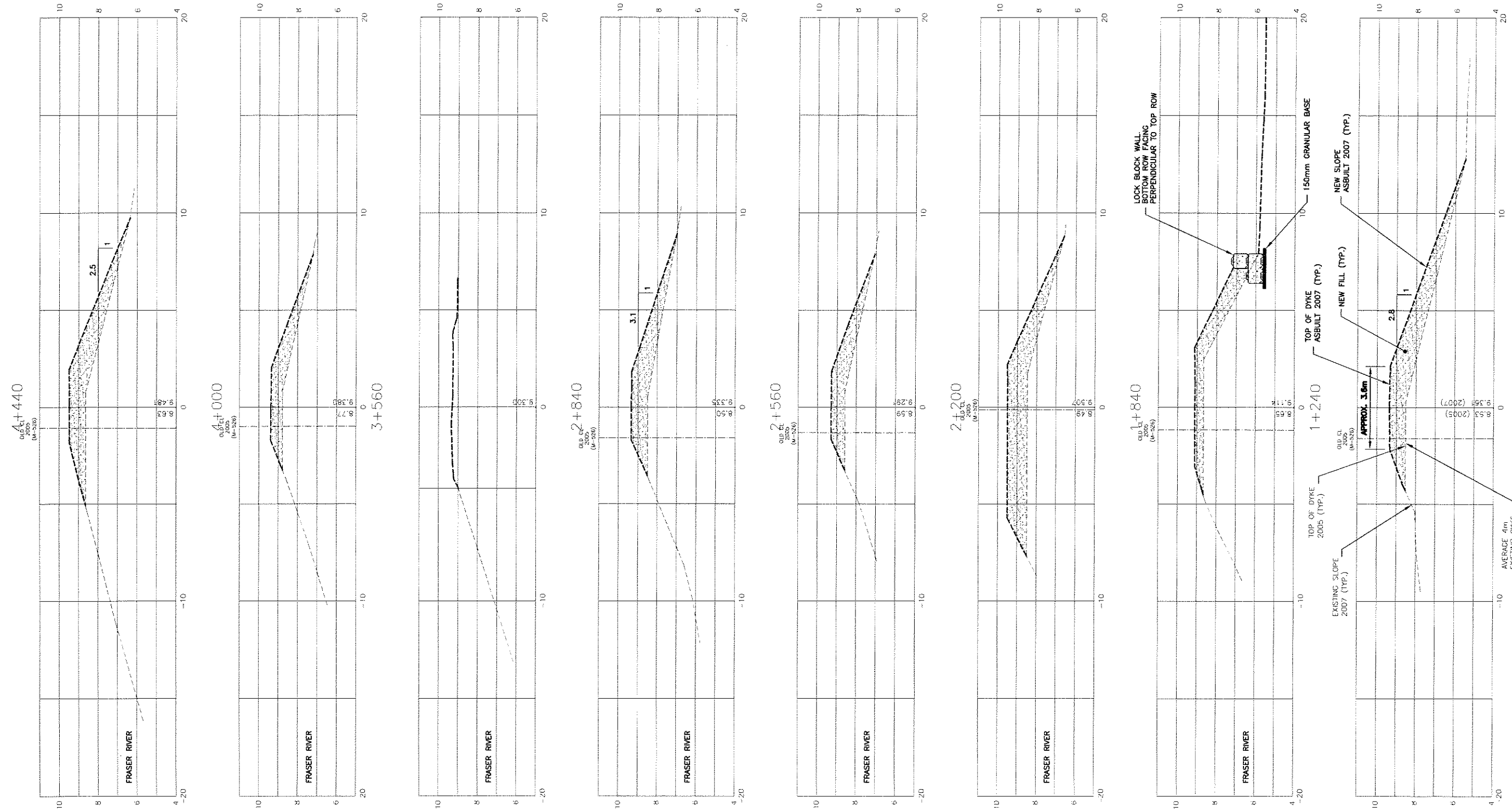


MATSQUI DIKE
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE

GRID NO. J12 SHEET NO. 16 OF 20 DRWG. NO.

D-895

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LOCATION FOR GAS, ELECTRICAL, TEL, & CABLE UTILITIES TO BE VERIFIED

NO.	DATE	BY	REVISIONS	TECH. ENG.
1.	JULY 2007	MR AS-BUILT		JL

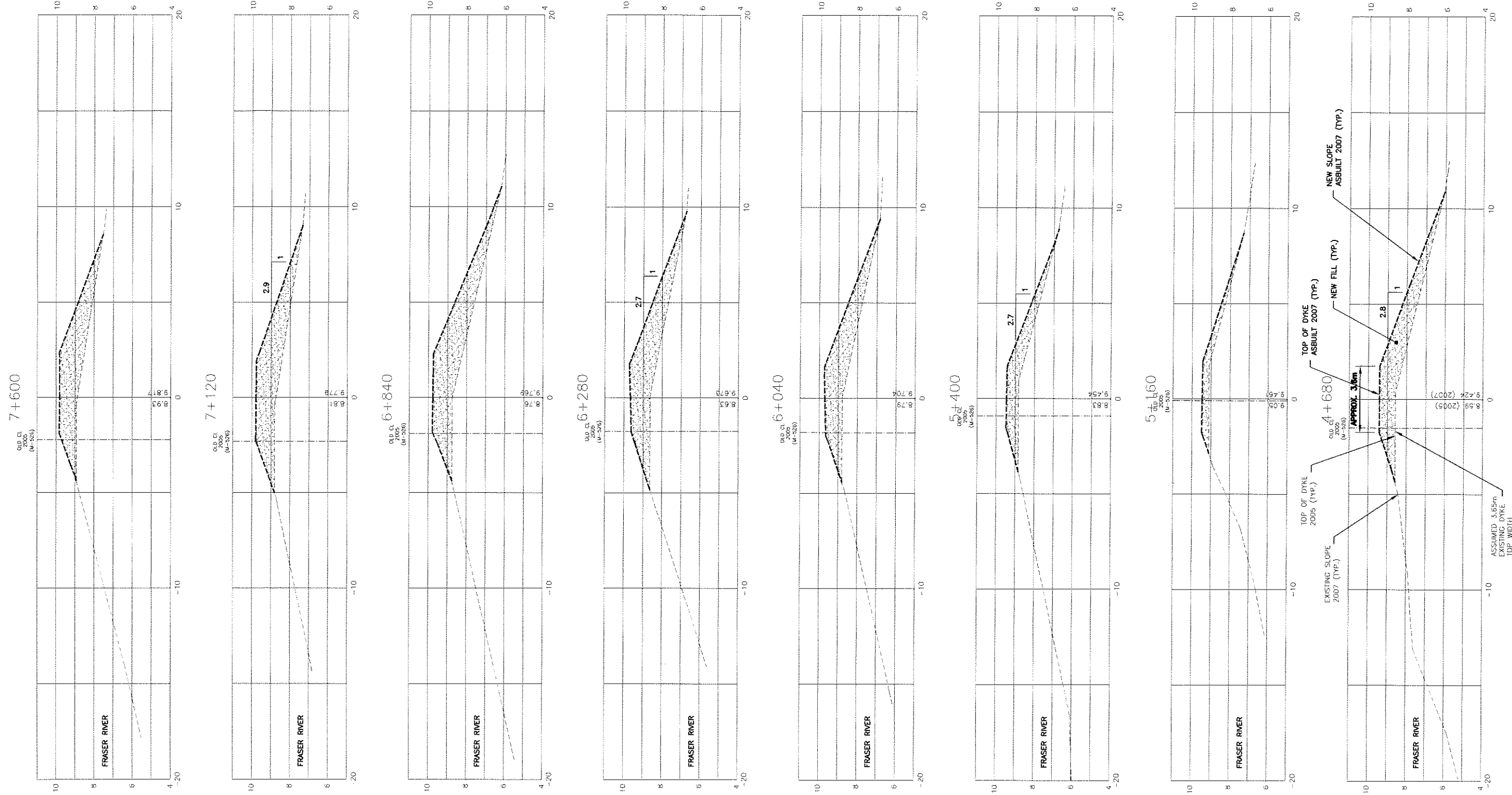
GOLDER ASSOCIATES LTD. CITY OF ABBOTSFORD

DATE	2007 04 02	SURVEY JOB NO.	07-059
DRAWN	MR	SURVEYCREW	RB/RG
DESIGN	JL	SCALE	1 : 100
WORK ORDER NO.	403437	VERT.	1 : 100



GRD NO. H6 SHEET NO. 17 OF 20 DRWG. NO. D-895
MATSQUI DYKE
 SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
 2007 DYKE UPGRADE - CROSS SECTIONS

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LOCATION FOR GAS, ELECTRICAL, TEL, & CABLE UTILITIES TO BE VERIFIED

NO.	DATE	BY	AS-BUILT	REVISIONS	TECH/ENG.
1.	JULY 2007	MR	AS-BUILT		JL

GOLDER ASSOCIATES LTD.
CITY OF ABBOTSFORD

DATE 2007 04 02
DRAWN MR
DESIGN JL
WORK ORDER NO. 403437

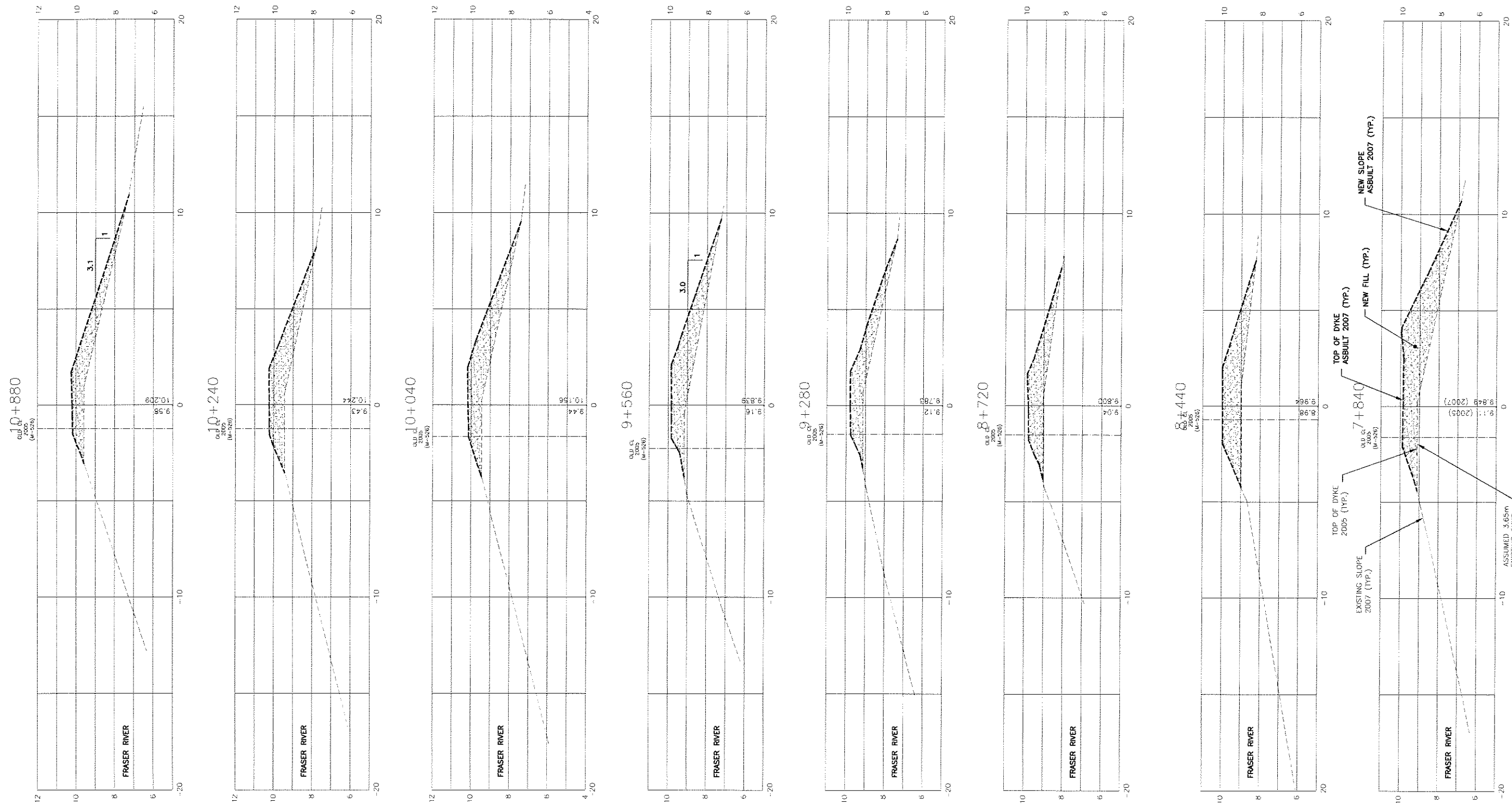
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SURVEYCREW RB/RG
SCALE 1 : 100
VERT. 1 : 100



GRID NO. H6 SHEET NO. 18 OF 20 DRAW. NO. D-895

MATSQUI DYKE
SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE - CROSS SECTIONS

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LOCATION FOR GAS, ELECTRICAL, TEL. & CABLE UTILITIES TO BE VERIFIED

NO.	DATE	BY	REVISIONS	TECH. ENG.
1.	JULY 2007	MR	AS-BUILT	JL

GOLDER ASSOCIATES LTD.

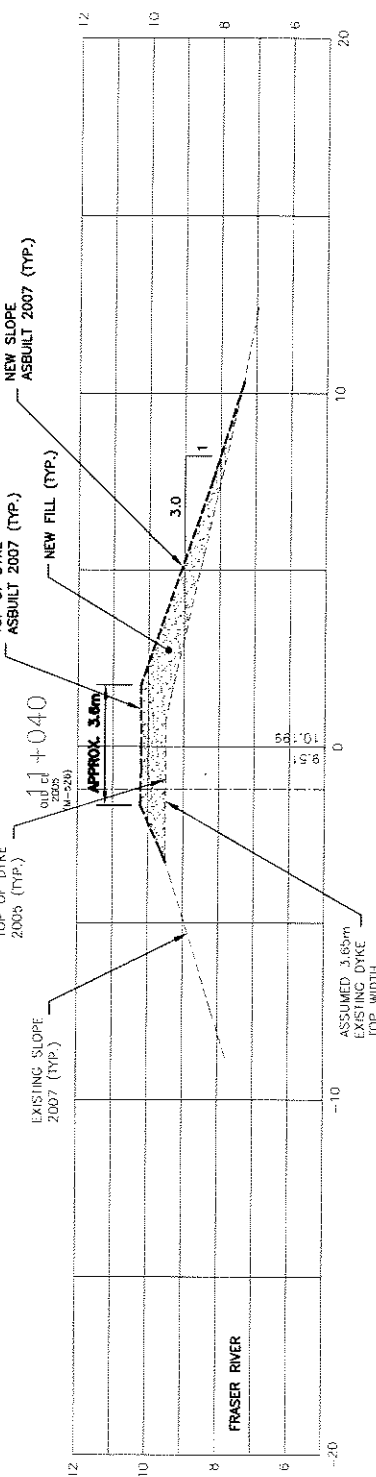
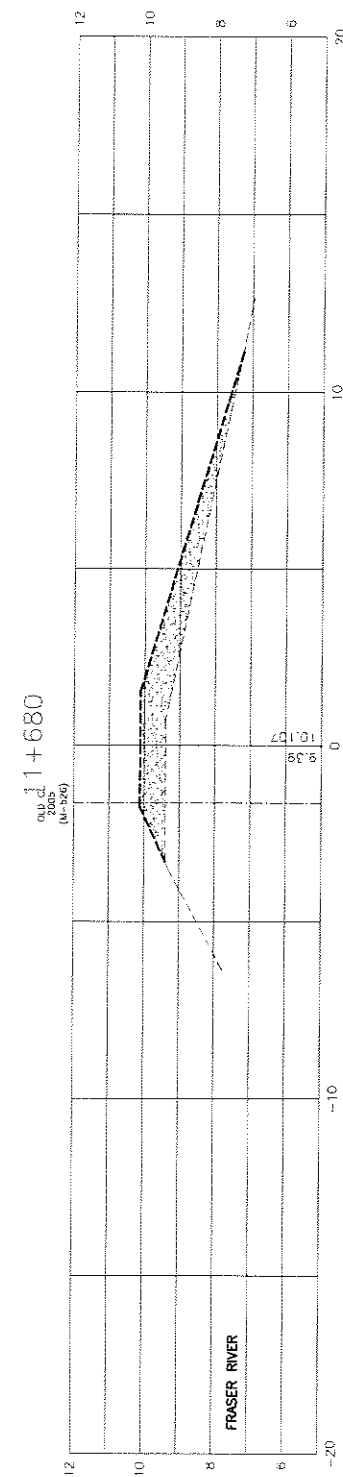
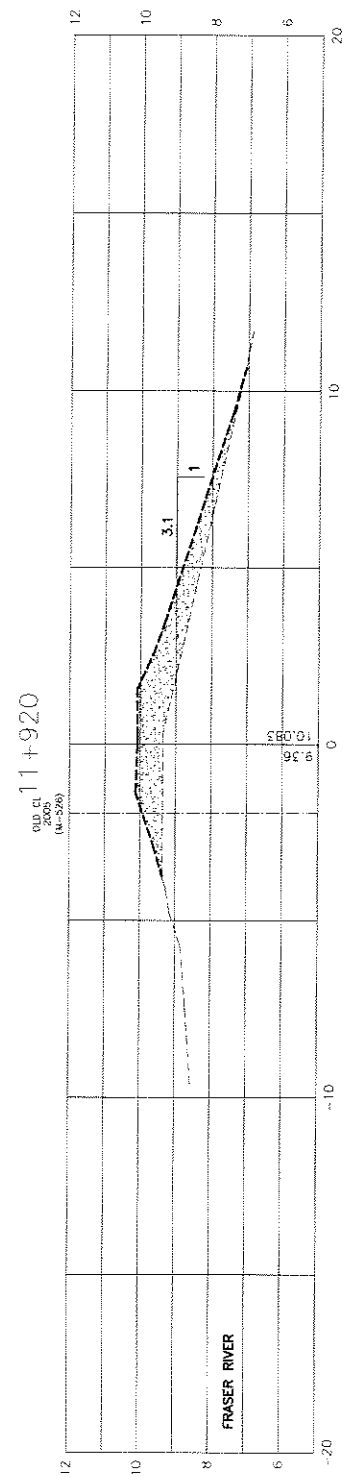
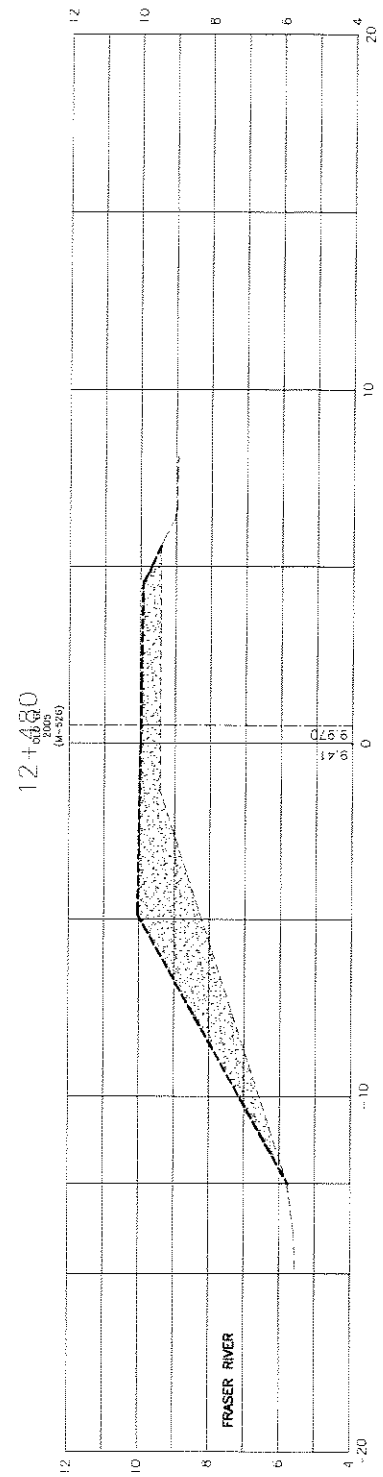
CITY OF ABBOTSFORD

DATE	2007 04 02	SURVEY JOB NO.	07-059
DRAWN	MR	SURVEYCREW	RB/RG
DESIGN	JL	HOR.	SCALE 1 : 100
WORK ORDER NO.	403437	VERT.	SCALE 1 : 100



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SOUTHERN RAILWAY NEAR HARRIS RD. TO PAGE PIT
2007 DYKE UPGRADE - CROSS SECTIONS

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LOCATION FOR GAS, ELECTRICAL, TEL. & CABLE UTILITIES TO BE VERIFIED

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SURVEYCREW RB/RC

DESIGN JL

SCALE

WORK ORDER NO. 403437

HOR. 1 : 100

VERT. 1 : 100



GRID NO. H6 SHEET NO. 20 OF 20 DRWG. NO. D-895

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